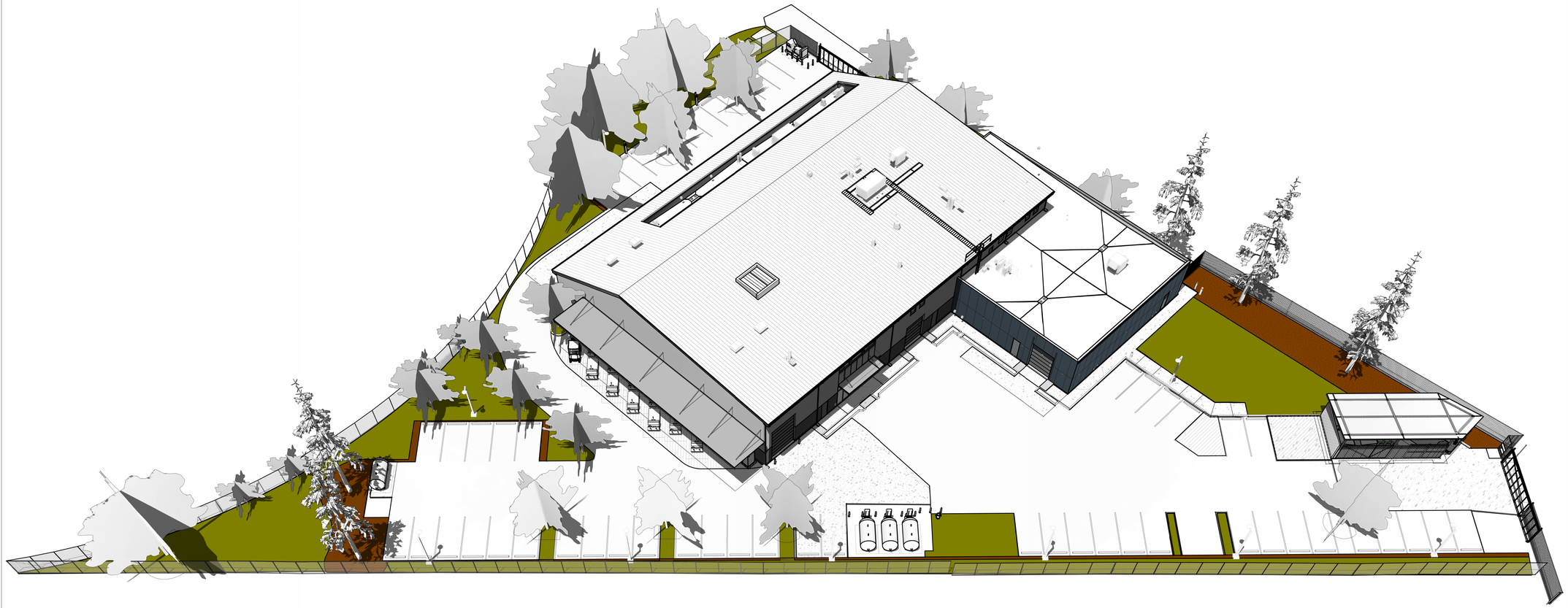

USE OF CONSTRUCTION DOCUMENTS PREPARED BY OTHER DESIGN PROFESSIONALS

APPENDIX A: EXAMPLE STATEMENT OF GENERAL CONFORMANCE FOR DPGRC

STATEMENT OF GENERAL CONFORMANCE

Application No.: 01-121159

File No.: 1-C2

The drawings identified as follows:

☒ All drawing sheets included in this set not bearing my stamp and signature.

☐ Drawing sheets denoted in the sheet index as follows: _____

☐ Drawing sheets included under the following PC approval(s): _____

have been prepared by other design professionals or consultants who are licensed and authorized to prepare such drawings (plans) in this state. They have been examined by me for:

1) Design intent and appear to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me, and

2) Coordination with my drawings (plans) and specifications and are acceptable for incorporation into the construction of this project.

Per Title 24, Part 1, Section 4-316(b): This Statement of General Conformance shall not be construed as relieving me of my rights, duties, and responsibilities under Sections 17302 and 81138 of the Education Code and Sections 4-336, 4-341 and 4-344 of Title 24, Part 1.

Signature		Date
MATHEW COMBRINK	C-31415	11/30/2025
Printed Name	License Number	Expiration Date

12/12/2024

GENERAL REQUIREMENTS:

1. All work shall conform to the 2022 Edition Title 24, California Code of Regulations (CCR).
2. Changes to the approved drawings and specifications shall be made by an addendum or construction change document approved by the Division of the State Architect, as required by Section 4-338, Part 1, Title 24, CCR.
3. The intent of these drawings and specifications is that the work of the alteration, rehabilitation or reconstruction is to be in accordance with the Title 24, CCR. Should any existing conditions such as deterioration or non-complying construction be discovered which is not covered by the contract documents wherein the finished work will not comply with Title 24, CCR, a construction change document (or a separate set of plans and specifications, detailing and specifying the required work shall be submitted to and approved by AHJ before proceeding with the work. (Section 4-317(c), Part 1, Title 24 CCR).

GENERAL TESTING REQUIREMENTS:

The California Energy Code Section 10-103 requires Acceptance Testing on all newly installed lighting controls, mechanical systems, envelopes, and process equipment after installation and before project completion. An Acceptance Test is a functional performance test to help ensure that newly installed equipment is operating and in compliance with the Energy Code.

Lighting controls acceptance tests must be performed by a certified lighting controls Acceptance Test Technician (ATT).

Mechanical system acceptance tests must be performed by a certified mechanical ATT for projects submitted on or after October 1, 2021.

Envelope and process equipment acceptance tests shall be performed by the installing contractor, engineer/architect of record or the owner's agent.

A listing of certified ATT can be found at: https://www.energy.ca.gov/programs-and-topics/programs/acceptance-test-technician-certification-provider-program/acceptance.

The Acceptance Testing procedures must be repeated, and deficiencies must be corrected by the builder or installing contractor until the construction/installation of the specified systems conform and pass the required acceptance criteria.

Project inspectors will collect the forms to confirm that the required Acceptance Tests have been completed.

CHABOT COLLEGE, BUILDING 3000 MAINTENANCE OPERATIONS WAREHOUSE & GARAGE

25555 HESPERIAN BLVD, HAYWARD, CA 94545

DSA SUBMITTAL APPLICATION # 01-121159

DWG_V4 FEBRUARY 10, 2025

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DIV. OF THE STATE ARCHITECT
APP: 01-121159 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 2/19/2025

CHABOT COLLEGE

CLIENT
CHABOT COLLEGE
25555 HESPERIAN BLVD
HAYWARD, CA 94612

ARCHITECT
HGA
405 14th Street, Suite 500
Oakland, CA 94612
510.516.0167
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2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

	date	issue description
2		

STATE OF CALIFORNIA
REGISTERED ARCHITECT
C-31415
RENEWAL DATE
OCTOBER 31, 2025

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: DECEMBER 17, 2024

COVER SHEET

G0.00

00. GENERAL

G0.00	COVER SHEET
G0.01	SHEET INDEX
G0.02	PROJECT INFORMATION
G0.03	CODE ANALYSIS PLAN - GROUND LEVEL
G0.04	CODE ANALYSIS PLAN - SECOND LEVEL
G0.05	AREA PLANS
G0.06	DEMOLITION FLOOR PLAN - M&O BUILDING & BUTLER BUILDING
G0.07	DEMOLITION FLOOR PLAN - M&O BUILDING
G0.08	DEMOLITION FLOOR PLAN - BUTLER BUILDING
G0.09	CAMPUS ACCESSIBLE SITE PLAN
G1.10	ACCESIBILITY DETAILS - SITE
G1.11	ACCESSIBILITY DETAILS
G1.12	ACCESSIBILITY DETAILS
G1.13	ACCESIBILITY DETAILS - SIGNAGE
G3.01	DSA CAL-GREEN CHECKLIST GL-4
G3.02	DSA CAL-GREEN CHECKLIST GL-4
G3.11	TITLE 24 DOCUMENTATION
G3.12	TITLE 24 DOCUMENTATION
G3.13	TITLE 24 DOCUMENTATION
G3.14	LEED DOCUMENTATION
G4.11	3D VIEWS - AXONS

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C3.00	OVERALL HORIZONTAL CONTROL PLAN
C3.10	SITE & HORIZONTAL CONTROL
C3.20	FIRE ACCESS PLAN
C4.00	OVERALL GRADING & DRAINAGE PLAN
C4.10	GRADING & DRAINAGE ENLARGMENT
C4.11	GRADING & DRAINAGE ENLARGMENT
C4.12	GRADING & DRAINAGE ENLARGMENT
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C5.10	UTILITY ENLARGEMENT
C6.00	STORMWATER MANAGEMENT PLAN
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C7.01	CONSTRUCTION DETAILS
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C7.03	CONSTRUCTION DETAILS

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L3.2	IRRIGATION NOTES & LEGEND
L3.3	IRRIGATION DETAILS
L3.4	IRRIGATION WATER CALCULATION
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L4.2	CONSTRUCTION DETAILS

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A3.02	EXTERIOR ELEVATIONS
A3.03	EXTERIOR ELEVATIONS
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A3.12	BUILDING SECTIONS
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A4.02	ENLARGED ELEVATIONS & WALL SECTIONS
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A8.41	EXTERIOR DETAILS - OPENINGS
A8.42	EXTERIOR DETAILS - OPENINGS
A8.61	EXTERIOR DETAILS - ROOF
A8.62	EXTERIOR DETAILS - ROOF
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A9.44	INTERIOR DETAILS - CEILINGS
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S1.03	TYPICAL CFS SOFFIT & MISCELLANEOUS DETAILS
S1.04	TYPICAL METAL DECKING DETAILS
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S3.02	BRACED FRAME ELEVATIONS
S3.03	BRACED FRAME ELEVATIONS
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S3.05	WALL FRAME ELEVATIONS
S3.06	WALL FRAME SECTIONS
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S5.01	STEEL FRAMING DETAILS
S5.02	STEEL FRAMING DETAILS
S5.03	BRACED FRAME DETAILS
S5.04	STRUCTURAL DETAILS
S5.05	STRUCTURAL DETAILS
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S6.02	STEEL STAIR PLAN AND DETAILS
S6.03	TRASH ENCLOSURE PLANS AND TYPICAL DETAILS
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M0.02	SCHEDULES - MECHANICAL
M0.03	SCHEDULES - MECHANICAL
M0.04	SCHEDULES - MECHANICAL
M0.05	TITLE 24 - MECHANICAL
M0.06	TITLE 24 - MECHANICAL
M0.07	TITLE 24 - MECHANICAL
M0.08	TITLE 24 - MECHANICAL
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M1.02	SECOND FLOOR ZONING PLAN - MECHANICAL
M2.01	GROUND FLOOR PLAN - MECHANICAL
M2.02	SECOND FLOOR PLAN - MECHANICAL
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M6.02	DETAILS - MECHANICAL
M6.03	DETAILS - MECHANICAL
M6.04	DETAILS - MECHANICAL
M6.05	DETAILS - MECHANICAL
M7.01	CONTROL DIAGRAMS - MECHANICAL
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M7.03	CONTROL DIAGRAMS - MECHANICAL

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E0.03	LIGHTING CONTROL MATRIX
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E1.02	SITE PLAN - POWER
E1.03	SITE PLAN - LIGHTING
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E2.02	SECOND FLOOR PLAN - LIGHTING
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E3.02	SECOND FLOOR PLAN - POWER
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E6.01	SCHEDULES - ELECTRICAL
E6.02	SCHEDULES - ELECTRICAL
E6.03	SCHEDULES - ELECTRICAL
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FA2.01	GROUND FLOOR PLAN - FIRE ALARM
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TY1.02	SECOND LEVEL FLOOR PLAN
TY7.01	COORDINATION DETAILS
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P0.02	PLUMBING SCHEDULES
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P2.02	SECOND FLOOR PLAN - WASTE AND VENT
P2.03	ROOF PLAN - WASTE AND VENT
P3.01	GROUND FLOOR PLAN - WATER
P3.02	SECOND FLOOR PLAN - WATER
P3.03	ROOF PLAN - WATER
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P6.01	PLUMBING ENLARGED PLAN

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FP2.02	SECOND FLOOR PLAN - FIRE PROTECTION
FP3.01	ENLARGED PLANS AND SECTIONS - FIRE PROTECTION
FP3.02	ENLARGED PLANS AND SECTIONS - FIRE PROTECTION
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FP4.02	DETAILS - FIRE PROTECTION

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TN1.01	GROUND LEVEL FLOOR PLAN
TN1.02	SECOND LEVEL FLOOR PLAN
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TA3.01	ELEVATIONS
TA7.01	COORDINATION DETAILS
TA7.02	COORDINATION DETAILS

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TOTAL SHEETS IN SET: 232

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2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

#	date	issue description

REGISTERED ARCHITECT
C-31715
LICENSE RENEWAL DATE
STATE OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: DECEMBER 17, 2024

SHEET INDEX

G0.01

R.H.	ROBE HOOK
S.AV.D.	SEE AUDIO VISUAL DRAWINGS
S.FA.D.	SEE FIRE ALARM DRAWINGS
S.FP.D.	SEE FIRE PROTECTION DRAWINGS
W.O.	WHERE OCCURS

A

A/C	AIR CONDITIONING
AV	AUDIO VISUAL
AB	ANCHOR BOLT
ABS	ACRYLONITRILE-BUTADIENE-STYRENE
ABV	ABOVE
ACC	ACCESS
ACC DR	ACCESS DOOR
ACC FL	ACCESS FLOOR
ACC PNL	ACCESS PANEL
ACOUS	ACOUSTICAL)
ACP	ACOUSTICAL CEILING PANEL
ACS	ACOUSTICAL CEILING PLANK
ACST	ACOUSTICAL
ACT	ACOUSTICAL CEILING TILE
AD	AREA DRAIN
ADD'L	ADDITIONAL
ADDM	ADDENDUM
ADH	ADHESIVE
ADJ	ADJACENT, ADHJUSTABLE
AESS	ARCHITECTURAL EXPOSED STRUCTURAL STEEL
AFF	ABOVE FINISH FLOOR
AGGR	AGGREGATE
AHR	ANCHOR
AHU	AIR HANDLING UNIT
AL. ALUM	ALUMINUM
ALT	ALTERNATE
ANOD	ANODIZED
APC	ACOUSTICAL PANEL CEILING
APC	ARCHITECTURAL PRECAST CONCRETE
APLAS	ACOUSTICAL PLASTER
APPROX	APPROXIMATE
APT	APARTMENT
ARCH	ARCHITECT (URAL)
ASC	ABOVE SUSPENDED CEILING
ASI	ARCHITECT'S SUPPLEMENTAL INFORMATION
ASPH	ASPHALT
AUTO	AUTOMATIC
AUX	AUXILARY
AVE	AVENUE
AVG	AVERAGE
AWI	ARCHITECTIRAL WOODWORK INSTITUTE
AWP	ACOUSTICAL WOOD PANEL
AWT	ACOUSTICAL WALL TREATMENT
AWT	ACOUSTICAL WOOD TILE
AWVP	ACOUSTICAL WOOD VENEER PANEL

B

BAL	BALANCE
BAT	BATTEN
BB	BULLETING BOARD
BC	BACK OF CURB
BD	BOARD
BF	BACK FACE
BFE	BOTTOM FOOTING ELEVATION
BIA	BRICK INSTITUTE OF AMERICA
BIPV	BUILDING-INTEGRATED PHOTOVOLTAICS
BITUM	BITUMINOUS
BJT	BED JOINT
BL	BUILDING LINE
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BLR	BOILER
BLT	BOLT
BLW	BELOW
BM	BEAM
BM	BENCH MARK
BO	BOTTOM OF
BO	BY OTHERS/OWNER
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BPF	BACKFLOW PREVENTER
BR	BEDROOM
BRDG	BRIDGING
BRG	BEARING
BRG PL	BEARING PLATE
BRK	BRICK
BRKT	BRACKET
BRZ	BRONZE
BS	BOTH SIDES
BSMT	BASEMENT
BTWN	BETWEEN
BUR	BUILT-UP ROOFING
BVL	BEVEL(ED)
BW	BOTH WAYS

C

C	CELSIUS
C	CHANNEL
C to C	CENTER TO CENTER
CAB	CABINET
CAL	CALIPER
CANTL	CANTILEVER
CB	CATCH BASIN
CCD	CONSTRUCTION CHANGE DIRECTIVE
CCTV	CLOSED CIRCUIT TELEVISION
CD	CONSTRUCTION DOCUMENT
CEM	CEMENT(ITIOUS)
CER	CERAMIC
CFC	CHLOROFLUOROCARBON
CFLG	COUNTERFLASHING
CFM	CUBIC FEET PER MINUTE
CG	CORNER GUARD
CH	COAT HOOK
CHEM	CHEMICAL, CHEMISTRY
CHFR	CHAMFER
CHKBD	CHALKBOARD
CI	CAST IRON
CIP	CAST-IN-PLACE
CIR	CIRCLE
CJT	CONTROL JOINT
CK	CORK
CKT	CIRCUIT
CL	CENTER LINE
CLG	CEILING
CLG HT	CEILING HEIGHT
CLL	CONTRACT LIMIT LINE
CLO	CLOSET
CLR	CLEAR
CLRM	CLASSROOM
CM	CENTIMETER(S)
CM	CONSTRUCTION MANAGER
CMP	CORRUGATED METAL PIPE
CMR	CODE MODIFICATION REQUEST
CMU	CONCRETE MASONRY UNIT
CND	CONDUIT
CO	CHANGE ORDER
CO	CLEANOUT
COL	COLUMN
COMM	COMMUNICATION
COMP	COMPRESSIBLE
CONC	CONCRETE
COND	CONDENSER, CONDENSATE
CONF	CONFERENCE
CONN	CONNECT(ED)(ION)
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
COOR	CORRUGAT(ED)(ION)
COORD	COORDINATE
CORR	CORRIDOR
CPT	CARPET
CRS	COURSE
CS	CAST STONE
CSMT	CASEMENT
CSWK	CASEWORK
CT	CERAMIC TILE
CT	COOLING TOWER
CTR	CENTER
CTSK	COUNTERSINK
CU FT	CUBIC FOOT
CU IN	CUBIC INCH
CU YD	CUBIC YARD
CUH	CABINET UNIT HEATER
CW	COLD WATER
CYL	CYLINDER

D

D	DEEP
D	DEPTH
DBL	DOUBLE
DBL ACT	DOUBLE ACTING
DC	DIRECT CURRENT
DEG	DEGREE
DEMO	DEMOLISH, DEMOLITION
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DH	DOUBLE HUNG
DIA	DIAMETER
DIAG	DIAGONAL
DIFF	DIFFUSER
DIM	DIMENSION
DIR	DIRECT(ION)(OR)
DISP	DISPENSER
DIST	DISTRIBUTION
DIV	DIVISION
DL	DEAD LOAD
DMD	DOVETAIL METAL DECK
DMPF	DAMPPROOF(ING)
DMT	DEMOUNTABLE
DN	DOWN
DOUG FIR	DOUGLAS FIR
DP	DRAPERY POCKET
DR	DOOR
DS	DOWNSPOUT
DSGN	DESIGN
DUPL	DUPLICATE
DWG	DRAWING
DWL(S)	DOWEL(S)
DWR	DRAWER

E

E	EAST
EA	EACH
EE	EACH END
EF	EACH FACE
EF	EPOXY FLOOR
EF	EXHAUST FAN
EG	EXHAUST GRILLE
EIFS	EXTERIOR INSULATION & FINISH SYSTEM
EJT	EXPANSION JOINT
EL	ELEVATION
ELAST	ELASTOMERIC
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOUS(URE)(ED)
ENGR	ENGINEER(ED)
ENL	ENLARGED
ENTR	ENTRANCE
EOS	EDGE OF SLAB
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EQ	EQUAL
EQPT.	EQUIPMENT
EQUIP	EQUIPMENT
ESC	ESCALATOR
EST	ESTIMATE
ESTB	ESTABLISH
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANS(ION)(DED)
EXT	EXTERIOR
EXTRU	EXTRU(SION)(DED)

F

F	FARENHEIT
FB	FACE BRICK
FBO	FURNISHED BY OTHERS
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FDTN	FOUNDATION
FDV	FIRE DEPARTMENT VALVE
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISHED FLOOR
FF EL	FINISHED FLOOR ELEVATION
FF&E	FURNITURE, FURNISHINGS, & EQUIPMENT
FFL	FINISHED FLOOR LEVEL
FH	FIRE HYDRANT/HOSE
FHC	FIRE HOSE CABINET
FHMS	FLAT HEAD MACHINE SCREWS
FHWS	FLAT HEAD WOOD SCREWS
FIN	FINISH
FIP	FOAM IN PLACE
FIXT	FIXTURE
FL, FLR	FLOOR
FLASH	FLASHING
FLUOR	FLUORESCENT
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FOW	FACE OF WALL
FP	FIREPROOF
FR	FRAME
FRP	FIBER-REINFORCED PLASTIC
FRTW	FIRE-RETARDANT TREATED WOOD
FS	FULL SIZE
FSC	FOREST STEWARDSHIP COUNCIL
FSTNR	FASTENER
FT	FEET, FOOT
FTG	FOOTING
FURG	FURRING
FURN	FURNI(SH)(TURE)
FUT	FUTURE

G

GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACT(OR)
GEN	GENERATOR
GFRC	GLASS-FIBER REINFORCED CONCRETE
GL	GLASS
GLAZ	GLAZING
GLU-LAM	GLUE-LAMINATED
GR	GRADE
GR BM	GRADE BEAM
GRAN	GRANITE
GRG	GLASS REINFORCED GYPSUM
GRND	GROUND
GRT	GROUT
GWB	GYPSUM WALL BOARD
GYP	GYPSUM

H

H	HIGH
H	HIGH POINT
H PT	HOSE BIB
HB	HANDICAP
HC	HOLLOW CORE
HCFC	HYDRO-CHLOROFLUOROCARBON
HD	HEAD
HDBD	HARDBOARD
HDPE	HIGH-DENSITY POLYETHYLENE PLASTIC
HDR	HEADER
HDW	HARDWARE
HDWD	HARDWOOD
HM	HOLLOW METAL
HNDRL	HANDRAIL
HORIZ	HORIZONTAL
HP	HORSEPOWER
HR	HOUR
HT	HEIGHT
HTG	HEATING
HVAC	HEATING, VENTILATION, AIR CONDITIONING
HW	HOT WATER
HWH	HOT WATER HEATER
HWY	HIGHWAY
HYD	HYDRANT
HZ	HERTZ

I

IAQ	INDOOR AIR QUALITY
ID	INSIDE DIAMETER
IF	INSIDE FACE
IGU	INSULATED GLAZING UNIT
ILLUM	ILLUMINATION
IN	INCHES
INCL	INCLUD(E)(ED)(ING)
INFO	INFORMATION
INSUL	INSULAT(ED)(ION)
INSUL PNL	INSULATED PANEL
INT	INTERIOR
INTUM	INTUMESCENT
INVT EL	INVERT ELEVATION
INVT, INV	INVERT

J

J-BOX	JUNCTION BOX
JAN	JANITOR
JC	JANITOR CLOSET
JST	JOIST
JST BR	JOIST BEARING
JT	JOINT

K

K	KIPS
KD	KNOCKED DOWN
KIT	KITCHEN
KO	KNOCKOUT
KPL	KICK PLATE
KVA	KILOVOLT AMPS
KW	KILOWATTS

L

L	LENGTH
LAB	LABORATORY
LAM	LAMINATED
LAV	LAVATORY
LCC	LEAD COATED COPPED
LDPE	LOW-DENSITY POLYETHYLENE PLASTIC
LDR	LEADER
LEED	LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN
LG	LARGE
LH	LEFT HAND
LIN	LINEAR
LINO	LINOLEUM
LIQ	LIQUID
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LOC	LOCAT(E)(ION)
LONG	LONGITUDINAL
LP	LOW POINT
LT	LIGHT
LT WT	LIGHTWEIGHT
LTG	LIGHTING
LTL	LINTEL
LVR	LOUVER
LWC	LIGHTWEIGHT CONCRETE

M

M	METER
MACH	MACHINE
MAINT	MAINTENANCE
MAN	MANUAL
MAS	MASONRY
MAT	MATERIAL
MAX	MAXIMUM
MBR	MEMBER
MDF	MEDIUM-DENSITY FIBERBOARD
MDO	MEDIUM-DENSITY OVERLAY
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MEZZ	MEZZANINE
MFR	MANUFACTUR(ER)(ED)
MH	MANHOLE
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MIX	MIXTURE
MLDG	MOLDING
MLWK	MILLWORK
MM	MILLIMETER
MO	MASONRY OPENING
MOD	MODIFIED, MODULAR
MPOE	MINIMUM POINT OF ENTRY
MR	MOISTURE RESISTANCE
MRB	MARBLE
MS	MACHINE SCREW
MTD	MOUNTED
MTL	METAL
MTR	MORTAR
MULL	MULLION

N

N	NORTH
NA	NOT APPLICABLE
NAT	NATURAL
NE	NORTHEAST
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NORM	NORMAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
NW	NORTHWEST

O

O/O	OUT TO OUT
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFF	OFFICE
OH	OVERHEAD
OPER	OPERABLE
OPH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
ORIG	ORIGINAL
OZ	OUNCE

P

LB, #	POUND
PC	POINT OF CURVE
PCF	POUNDS PER CUBIC FOOT
PERF	PERFORAT(ED)(ION)
PERIM	PERIMETER
PET	POLYETHYLENE TEREPHTHALATE PLASTIC
PI	POINT OF INTERSECTION
PL	PLATE
PL	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLBG	PLUMBING
PLVC	PLASTER VENEER COAT
PLYWD	PLYWOOD
PNL	PANEL
POLYISO	POLYISOCYANURATE
POLYSTY	POLYSTYRENE
PORT	PORCELAIN TILE
PR	PAIR
PR	PROPOSAL REQUEST
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
PRELIM	PRELIMINARY
PROJ	PROJECT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT
PT	POINT, POINT OF TANGENT
PT	PRESSURE TREATED
PTD	PAINTED
PTN	PARTITION
PV	PHOTOVOLTAIC
PVC	POLYVINYL CHLORIDE
PVG	PAVING
PVMT	PAVEMENT
PWR	POWER

Q

QT	QUART
QT	QUARRY TILE
QTR	QUARTER
QUAL	QUALITY

R

R	RADIUS
RA	RETURN AIR
RB	RUBBER BASE
RCP	REFLECTED CEILING PLAN
RCP	REINFORCED CONCRETE PIPE
RCW	RATED CURTAIN WALL
RD	ROOF DRAIN
REBAR	REINFORCING BAR
REC	RECESSED
RECPT	RECEPTACLE
RECT	RECTANGLE
REF	REFERENCE
REF	REFRIGERATOR
REG	REGISTER
REG	REGULAR
REINF	REINFORC(E)(ED)(ING)
REQD	REQUIRED
RET	RETURN
REV	REVISION
RFG	ROOFING
RFI	REQUEST FOR INFORMATION
RH	RIGHT HAND
RLF	RELIEF
RM	ROOM
RND	ROUND
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RR	RAILROAD
RT	RUBBER TILE
RUB	RUBBER
RWC	RAIN WATER CONDUCTER

S

S	SOUTH
S&R	STILE & RAIL
SA	SUPPLY AIR
SALV	SALVAGE(D)
SAN	SANITARY
SC	SOLID CORE
SCA	SPRINKLER CONTROL ASSEMBLY
SCD	SEE CIVIL DRAWINGS
SCD JT	SCORED JOINT
SCHD	SCHEDULE
SE	SOUTHEAST
SECT	SECTION
SED	SEE ELECTRICAL DRAWINGS
SF	SQUARE FOOT
SF	STOREFRONT
SFPD	SEE FIRE PROTECTION DRAWINGS
SFRM	SPRAY-APPLIED FIRE RESISTIVE MATERIAL
SGD	SEE GEOTECHNICAL DRAWINGS
SHT	SHEET
SIM	SIMILAR
SLD	SEE LANDSCAPE DRAWINGS
SM	SHEET METAL
SMD	SEE MECHANICAL DRAWINGS
SP	STAND PIPE
SPD	SEE PLUMBING DRAWINGS
SPEC	SPECIFICATION
SPK	SPEAKER
SPL	SPECIAL
SQ	SQUARE
SSD	SEE STRUCTURAL DRAWINGS
SSSD	SEE SAFETY AND SECURITY DRAWINGS
SST	STAINLESS STEEL
STAG	STAGGERED
STC	SOUND TRANSMISSION COEFFICIENT
STD	SEE TECHNOLOGY DRAWINGS
STD	STANDARD
STL	STEEL
STN	STONE
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPEN(DED)(SION)
SW	SOUTHWEST
SW	SWITCH
SYS	SYSTEM

T

T	TREAD
T&G	TONGUE & GROOVE
TC	TERRA COTTA
TEL	TELEPHONE
TEMP	TEMPERTURE
TEX.FIN	TEMPERATURE
THERM	THERMAL
THK	THICK(NESS)
THOLD	THRESHOLD
TKBD	TACKBOARD
TL	TILE
TMPD	TEMPERED
TO	TOP OF
TOB	TOP OF BEAM
TOC	TOP OF CURB, CONCRETE
TOD	TOP OF DECK
TOF	TOP OF FOOTING
TOP	TOP OF PIER
TOPAR	TOP OF PARAPET
TOS	TOP OF STEEL
TOW	TOP OF WALL
TRANS	TRANSOM
TRANSL	TRANSLUCENT
TRANSP	TRANSPARENT
TRTD	TREATED
TV	TELEVISION
TYP	TYPICAL

U

UL	UNDERWRITER'S LABORATORIES
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
USG	UNITED STATES GAGE
UTIL	UTILITY

V

V	VOLT
VAL	VALUE
VAR	VARIES
VAV	VARIABLE AIR VOLUME
VB	VAPOR BARRIER
VB	VINYL BASE
VCT	VINYL COMPOSITE TILE
VENT	VENTILAT(ING)(ION)
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VIT	VITREOUS
VNR	VENEER
VOC	VOLATILE ORGANIC COMPOUND
VOL	VOLUME
VWC	VINYL WALL COVERING

W

W	WEST
W	WIDTH
W	WITH
W/O	WITHOUT
W/W	WALL TO WALL
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WF	WIDE FLANGE
WGL	WIRED GLASS
WH	WATER HEATER
WI	WROUGHT IRON
WPT	WORKING POINT
WPTW	WOOD PRESERVATIVE TREATED WOOD
WR	WATER-REPELLENT
WSCT	WAINSCOT(TING)
WT	WEIGHT
WWF	WELDED WIRE FABRIC

Y

YD	YARD

ABBREVIATION LIST

A. CONTRACTOR SHALL:

1. PERFORMED ALL WORK IN COMPLIANCE WITH ALL LOCAL, COUNTY, STATE, AND FEDERAL; CODES, LAWS, ORDINANCES, AND REGULATIONS.
2. PROVIDE A COMPLETE PROJECT. ALL SYSTEMS AND COMPONENTS SHALL BE COMPLETE AND SHALL COMPLY WITH ALL REQUIREMENTS INDICATED ON THE CONTRACT DOCUMENTS.
3. WORK WITHIN THE SCOPE OF WORK BOUNDARY INDICATED IN THE PROJECT DOCUMENTS. OCCUPANTS ADJACENT TO THE PROJECT AREA BOUNDARIES SHALL CONTINUE UNINTERRUPTED OCCUPANCY DURING CONSTRUCTION OF THE PROJECT.
4. PERFORM THE WORK AT THE PROJECT SITE DURING NORMAL BUSINESS HOURS, PER THE LOCAL JURISDICTION HAVING AUTHORITY, UNLESS OTHERWISE NOTED.
5. VERIFY FIELD CONDITIONS AND COORDINATE WITH THE CONTRACT DOCUMENTS PRIOR TO PROCEEDING WITH THE WORK.
6. VERIFY THE ELEVATION OF ALL LEVELS.
7. COORDINATE THE WORK WITH EQUIPMENT, FURNISHINGS, OR OTHER COMPONENTS SUPPLIED BY THE OWNER.
8. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN CONTRACT DOCUMENTS, EXISTING CONDITIONS, AND OWNER SUPPLIED COMPONENTS WHICH REQUIRED ADJUSTMENT OR CORRECTION TO THE CONTRACT DOCUMENTS. WORK SHALL PROCEED ONLY AFTER THE DISCREPANCY HAS BEEN RESOLVED.
9. COORDINATE KEYING REQUIREMENTS WITH BUILDING OWNER.
10. BE RESPONSIBLE FOR THE DESIGN BUILD SCOPES LISTING IN DEFFERED SUBMITTALS. SPECIFICALLY THE DESIGN, CONSTRUCTION, DOCUMENTATION, CALCULATIONS, AND INSTALLATION. THE SYSTEM SHALL MEET THE REQUIREMENTS OF THE PERFORMANCE SPECIFICATIONS, PREVAILING CODES AND GENERAL DESIGN INTENT IN THE CONTRACT DOCUMENTS.
11. ALL EXISTING CONSTRUCTION TO REMAIN SHALL BE PROTECTED THROUGHOUT CONSTRUCTION. ANY DAMAGE TO THE EXISTING CONSTRUCTION WHICH OCCURRING DURING THE CONSTRUCTION PROCESS SHALL BE REPAIRED OR REPLACED AT THE EXPENSE OF THE CONTRACTOR, WITH EQUIVALENT OR SUPERIOR MATERIAL TO THE ORIGINAL ITEMS.
12. ANY CHANGE MODIFICATION, OR INTERPRETATION OF THE SCOPE OR REQUIREMENTS OUTLINED WITHIN THE CONTRACT DOCUMENTS, UNDERTAKEN WITHOUT CONSULTATION WITH THE ARCHITECT (OR ANY UNFORESEEN CONDITION RESULTING THEREFOR) SHALL BE THE RESPONSIBILITY OF THE OWNER OR CONTRACTOR RESPECTIVELY, AS STIPULATED WITHIN THE OWNER/ ARCHITECT AGREEMENT, BRICK INC. SHALL BE HELD HARMLESS FROM ANY CLAIMS RESULTING FROM SUCH ACTIVITY.

B. DEFINITIONS:

1. "TYPICAL" OR "TYP" INDICATES IDENTICAL COMPLETE SYSTEM WHICH SHALL BE PROVIDED FOR EACH OCCURRENCE OF THE CONDITION.
2. "SIMILAR" OR "SIM" INDICATES COMPLETE SYSTEM AND COMPONENTS SHALL BE PROVIDED COMPARABLE TO THE CHARACTERISTICS OF THE CONDITION NOTED.
3. "ALIGN" INDICATES ACCURATELY PROVIDE FINISH FACES OF MATERIALS IN STRAIGHT, TRUE, AND PLUMB RELATION TO ADJACENT MATERIALS.
4. "EXISTING" OR "E" INDICATES EXISTING SYSTEMS OF COMPONENTS. ALL COMPONENTS OR SYSTEMS IN THE PROJECT DOCUMENTS ARE TO BE NEW UNLESS SPECIFICALLY CALLED OUT AS EXISTING.

C. DIMENSIONS:

1. ALL DIMENSIONS ARE INDICATED TO THE CENTERLINE OF STRUCTURAL GRIDS, FACE OF FINISH, NOMINAL FACE OF CMU WALL OR CONCRETE WALL, U.O.N..
2. ALIGNMENT OF PARTITIONS AND FINISHES AS SCHEDULED SHALL BE STRAIGHT, TRUE, & PLUMB. THE PRIORITY FOR PROJECT DIMENSIONS SHALL BE IN THE FOLLOWING ORDER:
   A. MIN. DIMENSION FOR ACCESSIBILITY CLEARANCE & BUILDING CODE REQUIREMENT
   B. LARGE SCALE DETAILS
   C. SMALL SCALE DETAILS
   D. FLOOR PLANS AND ELEVATIONS
3. FLOOR ELEVATIONS ARE INDICATED TO THE TOP OF STRUCTURAL SLAB, OR TOP OF STRUCTURAL SUBFLOOR UNLESS OTHERWISE NOTED.
4. VERTICAL DIMENSIONS ARE INDICATED FROM THE FLOOR ELEVATION TO THE FACE OF FINISH MATERIAL AT THE DIMENSION POINT, UNLESS NOTED ABOVE FINISH FLOOR, A.F.F..
5. CEILING HEIGHTS ARE INDICATED FROM THE FLOOR ELEVATION TO THE FACE OF THE SUSPENDED CEILING SYSTEM OR FACE OF FINISH MATERIAL AS SCHEDULED.
6. DIMENSIONS SHOWN ON THE DRAWINGS SHALL INDICATE THE REQUIRED SIZE, CLEARANCE, AND DIMENSIONAL RELATIONSHIP BETWEEN PROJECT SYSTEMS AND COMPONENTS. DIMENSIONS SHALL NOT BE DETERMINED BY SCALING THE DRAWINGS.

D.

1. THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.
2. LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).
3. MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.
4. ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT.
5. A LISTING OF CERTIFIED ATT CAN BE FOUND AT: HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE.
6. THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.
7. PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

E.

DSA DOES NOT REVIEW FOR COMPLIANCE WITH C.C.R. TITLE 8, DIVISION 1, CHAPTER 4, SUBCHAPTER 6, ELEVATOR SAFETY ORDERS (ESO). IT IS THE RESPONSIBILITY OF THE PROJECT ARCHITECT AND ELEVATOR MANUFACTURER TO ENSURE THAT DESIGNS AND ELEVATOR INSTALLATIONS ARE IN CONFORMANCE WITH THE REQUIREMENTS OF THE ELEVATOR SAFETY ORDERS AS ADOPTED

F.

NEW BUILDINGS SHALL BE PROVIDED WITH EMERGENCY RESPONDER RADIO COVERAGE IN ACCORDANCE WITH CALIFORNIA FIRE CODE SECTION 510. THE PROJECT ARCHITECT (AOR) SHALL CONTACT THE LOCAL FIRE DEPARTMENT AND/OR EMERGENCY COMMUNICATIONS AUTHORITY TO OBTAIN DESIGN, EQUIPMENT SPECIFICATIONS, TESTING AND ACCEPTANCE CRITERIA. PLANS AND REQUESTED DOCUMENTATION SHALL BE SUBMITTED TO THE LOCAL AUTHORITY HAVING JURISDICTION FOR REVIEW AND APPROVAL. UPON COMPLETION, COPIES OF THE APPROVED PLANS, EQUIPMENT DATA SHEETS, TESTING AND ACCEPTANCE DOCUMENTATION SHALL BE PROVIDED TO THE SCHOOL DISTRICT.

G.

WORK SHALL COMPLY WITH THE PROVISIONS OF CHAPTER 33 OF THE CBC & CFC, "FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION.

H.

ALL WORK SHALL CONFORM TO 2022 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).

1. FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE DSA. LIST DEFERRED SUBMITTAL ITEMS FOR THIS PROJECT.
2. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT. AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
3. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR. A MINIMUM CLASS ONE INSPECTOR IS REQUIRED.
4. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
5. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR).

J.

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

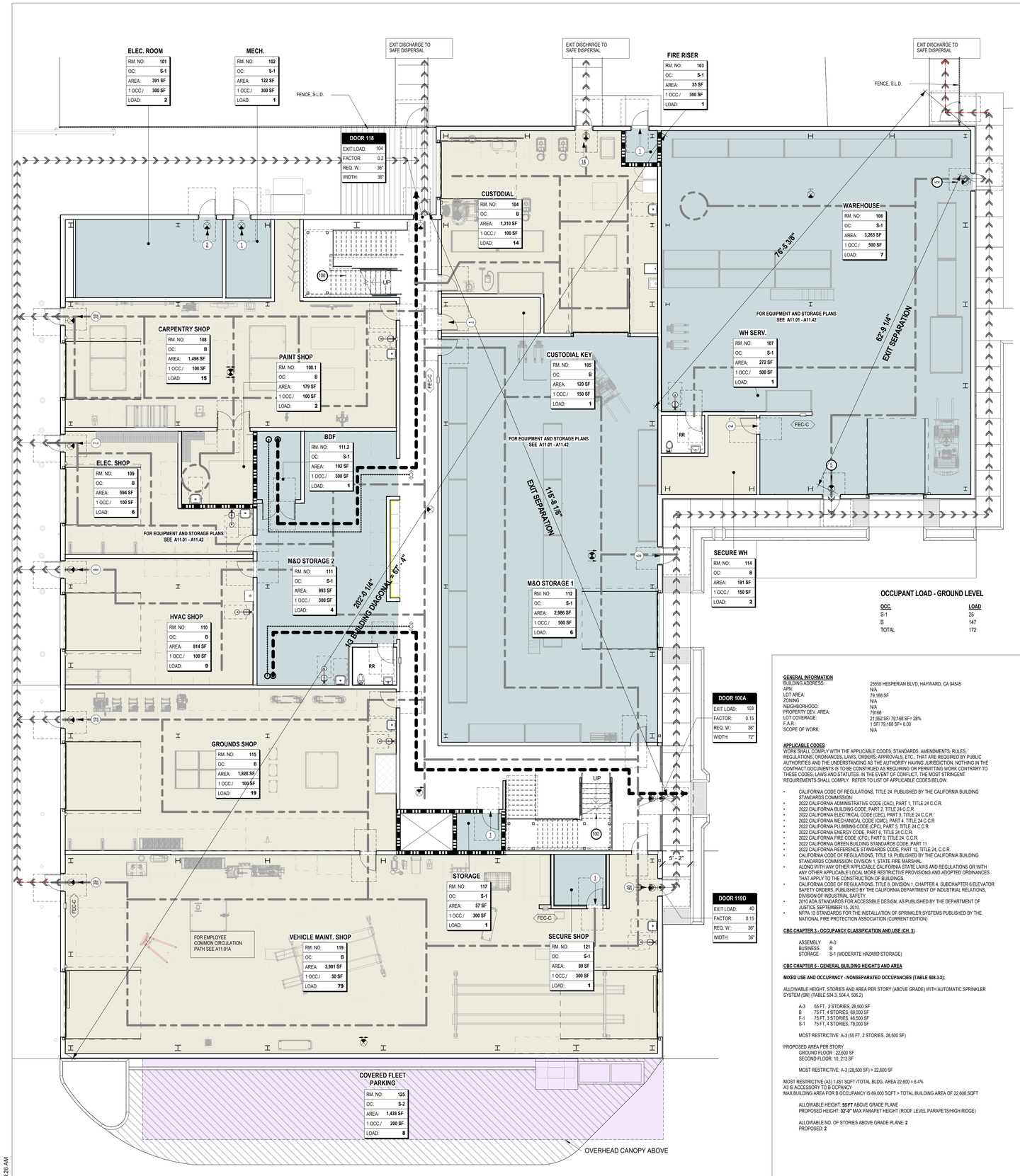
LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT: HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE.

THE ACCEPTANCE TESTING PROCEDURES MUST BE REPE



1 OVERALL CODE ANALYSIS PLAN - GROUND FLOOR

1/8" = 1'-0"

OCCUPANT LOAD - GROUND LEVEL

OCC.	LOAD
S-1	25
B	147
TOTAL	172

OCCUPANCY GROUPS

- B
- CIRCULATION AND RRs
- S-1
- S-2

EXIT SIGN

- EXIT SIGN - CEILING HUNG, S.E.D.
- DIRECTION OF EGRESS
- DIRECTION OF EGRESS
- EXIT SIGN - WALL HUNG, S.E.D.

PARTITION RATING

- 3 HOUR FIRE-RESISTANCE
- 2 HOUR FIRE-RESISTANCE
- 1 HOUR FIRE-RESISTANCE

PARTITION TYPE

- FIRE WALL
- FIRE BARRIER
- FIRE PARTITION
- SMOKE BARRIER
- SMOKE PARTITION

- FOR FIRE DOOR RATINGS SEE CBC TABLE 716.1(2)
- FOR FIRE WINDOWS SEE CBC TABLE 716.1(3)

FIRE EXTINGUISHERS (CFC SEC.906)

ALL FEC ARE SEMI-RECESSED.
MAX TRAVEL DIST TO NEAREST FEC NOT TO EXCEED 75'

- FEC — FEC LOCATION
- FH — FIRE HOSE CABINET
- STROBE
- P — PULL STATION

ROOM TAG

Name	
RM. NO:	101 — ROOM NUMBER
OC:	B — OCCUPANCY (CBC 302)
AREA:	150 SF — AREA IN SQUARE FEET
1 OCC./	100 SF — DESIGN OCC: LOAD FACTOR (CBC TABLE 1004.5)
LOAD:	0L — TOTAL SPACE OCCUPANCY LOAD

EXIT DOOR TAG

DOOR 1i	
	— DOOR MARK
EXIT LOAD:	EL — EXIT OCCUPANCY LOAD
FACTOR:	0.2 — FACTOR (CBC 1005.3.2)
REQ. W.:	ReqW — DOOR CLEAR WIDTH REQUIRED
WIDTH:	32" — DOOR CLEAR WIDTH PROVIDED

EXIT STAIR TAG

STAIR 1: B1-L1	
	— STAIR MARK
	— LEVELS SERVED
EXIT LOAD:	0L — EXIT OCCUPANCY LOAD
FACTOR:	0.2 — FACTOR (CBC 1005.3.1)
REQ. W.:	ReqW — CLEAR WIDTH REQUIRED
WIDTH:	32" — CLEAR WIDTH PROVIDED

EMPLOYEE COMMON CIRCULATION

EMPLOYEE ACCESSIBLE CIRCULATION
CLEAR WIDTH PATH PER CBC 11B-403.5.1

EXIT ACCESS TRAVEL DISTANCE

- CP = 43' - 0" — COMMON PATH OF TRAVEL
- EXIT
- 36" CLR PATH OF TRAVEL
- MOST REMOTE POINT ON LEVEL
- EXIT DISCHARGE PATH

EXIT LOAD TAG

- DIRECTION OF EGRESS
- 24 — EXIT LOAD
- 24 — CUMULATIVE EXIT LOAD

DIAGONALS & SEPARATION DIST.

- EXIT SEPARATION: 15' - 0" — SEPARATION BETWEEN EXITS
- NAME OF THE SERVED AREA
- Suite MAX. OVERALL DIAGONAL = 29' - 0" — MAXIMUM DIAGONAL OF SERVED AREA
- 1/3 DIAGONAL = 9' - 8" — MAX. DIAGONAL DIVIDED BY 3 (= MIN. SEPARATION BETWEEN EXITS ALLOWED)

OCCUPANCY & EXITING LEGEND

GENERAL INFORMATION

BUILDING ADDRESS:	25555 HESPERIAN BLVD, HAYWARD, CA 94545
APN:	N/A
LOT AREA:	79,168 SF
ZONING :	N/A
NEIGHBORHOOD:	N/A
PROPERTY DEV. AREA:	79168
LOT COVERAGE:	21,952 SF/ 79,168 SF= 28%
F.A.R. :	1 SF/ 79,168 SF= 0.00
SCOPE OF WORK:	N/A

APPLICABLE CODES

WORK SHALL COMPLY WITH THE APPLICABLE CODES, STANDARDS. AMENDMENTS, RULES, REGULATIONS, ORDINANCES, LAWS, ORDERS, APPROVALS, ETC., THAT ARE REQUIRED BY PUBLIC AUTHORITIES AND THE UNDERSTANDING AS THE AUTHORITY HAVING JURISDICTION. NOTHING IN THE CONTRACT DOCUMENTS IS TO BE CONSTRUED AS REQUIRING OR PERMITTING WORK CONTRARY TO THESE CODES, LAWS AND STATUTES. IN THE EVENT OF CONFLICT, THE MOST STRINGENT REQUIREMENTS SHALL COMPLY. REFER TO LIST OF APPLICABLE CODES BELOW:

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- 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
- 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R
- 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
- 2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.
- 2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, C.C.R.
- 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11
- 2022 CALIFORNIA REFERENCE STANDARDS CODE, PART 12, TITLE 24, C.C.R.
- CALIFORNIA CODE OF REGULATIONS, TITLE 19, PUBLISHED BY THE CALIFORNIA BUILDING STANDARDS COMMISSION: DIVISION 1, STATE FIRE MARSHAL
- ALONG WITH ANY OTHER APPLICABLE CALIFORNIA STATE LAWS AND REGULATIONS OR WITH ANY OTHER APPLICABLE LOCAL MORE RESTRICTIVE PROVISIONS AND ADOPTED ORDINANCES THAT APPLY TO THE CONSTRUCTION OF BUILDINGS
- CALIFORNIA CODE OF REGULATIONS, TITLE 8, DIVISION 1, CHAPTER 4, SUBCHAPTER 6 ELEVATOR SAFETY ORDERS, PUBLISHED BY THE CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS, DIVISION OF INDUSTRIAL SAFETY
- 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN, AS PUBLISHED BY THE DEPARTMENT OF JUSTICE SEPTEMBER 15, 2010.
- NFPA 13 STANDARDS FOR THE INSTALLATION OF SPRINKLER SYSTEMS PUBLISHED BY THE NATIONAL FIRE PROTECTION ASSOCIATION (CURRENT EDITION)

CBC CHAPTER 3 - OCCUPANCY CLASSIFICATION AND USE (CH. 3)

ASSEMBLY	A-3
BUSINESS	B
STORAGE	S-1 (MODERATE HAZARD STORAGE)

CBC CHAPTER 6 - GENERAL BUILDING HEIGHTS AND AREA

MIXED USE AND OCCUPANCY - NONSEPARATED OCCUPANCIES (TABLE 508.3.2):

ALLOWABLE HEIGHT, STORIES AND AREA PER STORY (ABOVE GRADE) WITH AUTOMATIC SPRINKLER SYSTEM (SM) (TABLE 504.3, 504.4, 506.2)

A-3	55 FT., 2 STORIES, 28,500 SF
B	75 FT, 4 STORIES, 69,000 SF
F-1	75 FT, 3 STORIES, 46,500 SF
S-1	75 FT, 4 STORIES, 78,000 SF

MOST RESTRICTIVE: A-3 (55 FT, 2 STORIES, 28,500 SF)

PROPOSED AREA PER STORY
GROUND FLOOR : 22,600 SF
SECOND FLOOR: 10, 213 SF

MOST RESTRICTIVE: A-3 (28,500 SF) > 22,600 SF

MOST RESTRICTIVE (A3) 1,451 SQFT /TOTAL BLDG. AREA 22,600 = 6.4%
A3 IS ACCESSORY TO B OCPANCY
MAX BUILDING AREA FOR B OCCUPANCY IS 69,000 SQFT > TOTAL BUILDING AREA OF 22,600 SQFT

ALLOWABLE HEIGHT: **55 FT** ABOVE GRADE PLANE
PROPOSED HEIGHT: **32'-0"** MAX PARAPET HEIGHT (ROOF LEVEL PARAPETS/HIGH RIDGE)

ALLOWABLE NO. OF STORIES ABOVE GRADE PLANE: **2**
PROPOSED: **2**

CBC CHAPTER 6 - TYPE OF CONSTRUCTION

TYPE II-B
FULL SPRINKLERED : EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM

FIRE RESISTANCE REQUIREMENTS FOR BUILDING ELEMENTS (CBC TABLE 601)

BUILDING ELEMENT	FIRE RESISTANCE RATING REQUIRED	PROVIDED	REMARKS
PRIMARY STRUCTURAL FRAMING	0	0	-
BEARING WALLS (EXTERIOR)	0	0	-
BEARING WALLS (INTERIOR)	0	0	-
NONBEARING WALLS AND PARTITIONS (INTERIOR)	0	0	-
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0	0	-
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0	0	-

FIRE RESISTANCE REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE (CBC TABLE 705.5)

FIRE SEPARATION DISTANCE = X FEET	FIRE SEPARATION REQUIRED	FIRE SEPARATION PROVIDED	FIRE RATING REQUIRED	FIRE RATING PROVIDED	REMARKS
NORTH	X>30	0	0HR	0HR	-
SOUTH	X>30	0	0HR	0HR	-
EAST	X>30	0	0HR	0HR	-
WEST	X>30	0	0HR	0HR	-

CBC CHAPTER 7 - FIRE AND SMOKE PROTECTION

EXTERIOR WALLS AND PROJECTION (SEC. 705.2):

PROJECT MEETS EXCEPTION. BUILDINGS ON THE SAME LOT.

FIRE-RATED CONSTRUCTION (SEC. 713.4):
2HR SHAFT ENCLOSURES - ELEVATOR SHAFT
1HR SHAFT ENCLOSURES - CONNECTING NOT LESS THAN FOUR STORIES

FIRE-RATED OPENING PROTECTIVES, RATINGS (TABLE 716.1):

2 HR WALL	1 1/2 HR DOOR	SHAFT, INTERIOR EXIT STAIRWAYS
1 HR WALL	1 HR DOOR	FIRE BARRIER: SHAFT, EXIT ACCESS STAIRWAY, ETC.

CBC CHAPTER 8 - INTERIOR FINISHES

INTERIOR WALL AND CEILING FINISHES REQUIREMENTS BY OCCUPANCY (SEC. 803.13):

OCCUPANCY	INTERIOR EXIT STAIRWAYS AND GROUP RAMPS AND EXIT PASSAGEWAYS	CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRWAY AND RAMPS	ROOMS AND ENCLOSED SPACES
A3	B	B	C
B	B	C	C
F	C	C	C
S	C	C	C

FLAME SPREAD CLASS:
CLASS A - FLAME SPREAD INDEX 0-25, SMOKE DEVELOPED INDEX 0-450
CLASS B - FLAME SPREAD INDEX 26-75, SMOKE DEVELOPED INDEX 0-450
CLASS C - FLAME SPREAD INDEX 76-200, SMOKE DEVELOPED INDEX 0-450

FLOORS TO MEET THE REQUIREMENTS OF SECTION 804.

CBC CHAPTER 9 - FIRE PROTECTION AND LIFE SAFETY SYSTEMS

AUTOMATIC SPRINKLER SYSTEM (SEC. 903):
STANDPIPE SHALL BE CLASS 1

PORTABLE FIRE EXTINGUISHERS (SEC. 906):
CLASS A FIRE HAZARD
LIGHT HAZARD OCCUPANCY
2-A RATING
3,000 SF MAX PER UNIT OF A
11,250 SF MAX PER EXTINGUISHER
75FT MAX DISTANCE

MIN. RATING AND NUMBER OF EXTINGUISHERS REQUIRED:

GROUND FLOOR: 21,948 SF/3,000SF = 7.3 (8 UNITS OF A REQUIRED), **(2) 2-A PROVIDED (BASED ON MAX. AREA CALC.)**
SECOND FLOOR: 10, 213SF/3,000 SF = 3.4 (4 UNITS OF A REQUIRED), **(5) 2-A PROVIDED**

FIRE ALARM (SEC. 907):
EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM TO BE PROVIDED
(SEE FIRE ALARM DWGS).

CBC CHAPTER 10 MEANS OF EGRESS

DESIGN OCCUPANT LOAD (SEC. 1004.1):
MAX. FLOOR AREA ALLOWANCES PER OCCUPANT (SEC. 1004.5)

A-3 (ASSEMBLY)	15 SF NET
B (BUSINESS AREAS OFFICE)	150 SF GROSS
B (INDUSTRIAL)	100 SF GROSS
S-1 (STORAGE)	300 SF GROSS
S-1 (WAREHOUSE)	500 SF GROSS

MEANS OF EGRESS SIZING (SEC. 1005):
SEE EGRESS PLANS FOR ACTUAL CAPACITIES

	WIDTH (INCHES/OCCUPANT)	
STAIRWAYS	0.2	(SEC. 1005.3.1 EXCEPTION 1)
OTHER EGRESS COMPONENTS	0.15	(SEC. 1005.3.2 EXCEPTION 2)

EGRESS CONVERGENCE AT LEVEL 1 (SEC. 1005.6)

SPACES WITH A SINGLE EXIT (SPRINKLER) (SEC. 1006.2.1):

GROUP	MAX. OCC. LOAD	MAX. COMMON PATH OF EGRESS
A	49	75 FT
B	49	100 FT
F	49	100FT
S	29	100FT

NUMBER OF EXITS (SEC. 1006.3.1):

OCCUPANTS	NUMBER OF EXITS OR EXIT ACCESS PER STORY
1-500	2 REQUIRED, **2 PROVIDED**

CONFIGURATION (SEC. 1007.1.1 EXCEPTION 3):
TWO EXITS, EXIT ACCESS DOORWAYS, EXIT ACCESS STAIRWAYS OR RAMPS, OR ANY COMBINATION
THEREOF, THEY SHALL BE PLACED A DISTANCE APART NOT LESS THAN ONE THIRD THE LENGTH OF
THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE AREA SERVED.

ALL DIAGONALS SHOWN ON EGRESS PLANS CONFORM.

ACCESSIBLE ROUTE (SEC. 1009):
TO BE PROVIDED TO SPACES.

DOORS, GATES AND TURNSTILES (SEC. 1010.1):
DOOR MIN. CLEAR WIDTH: 32" WITH MAX. LEAF 48" WIDE.

STAIRWAYS (SEC. 1011.2):
WIDTH: 44 INCHES MIN., 36 INCHES IF OCC. LOAD <50 (EXCEPTION 1)
HEADROOM: 80 INCHES MIN.
RISER HEIGHT: 4-7 INCHES MAX.
RISER DEPTH: 11 INCHES MIN.

EXIT ACCESS TRAVEL DISTANCE (SPRINKLER) (SEC. 1017):

GROUP	MAX. EXIT ACCESS TRAVEL DISTANCE
A	250FT
B	300 FT
F	250FT
S	250 FT

CODE SUMMARY

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-121159 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 2/19/2025

CLIENT
CHABOT COLLEGE
25555 HESPERIAN BLVD
HAYWARD, CA 94612

ARCHITECT
HGA
405 14th Street, Suite 500
Oakland, CA 94612
510.516.0167
www.hga.com

2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

△	date	issue description

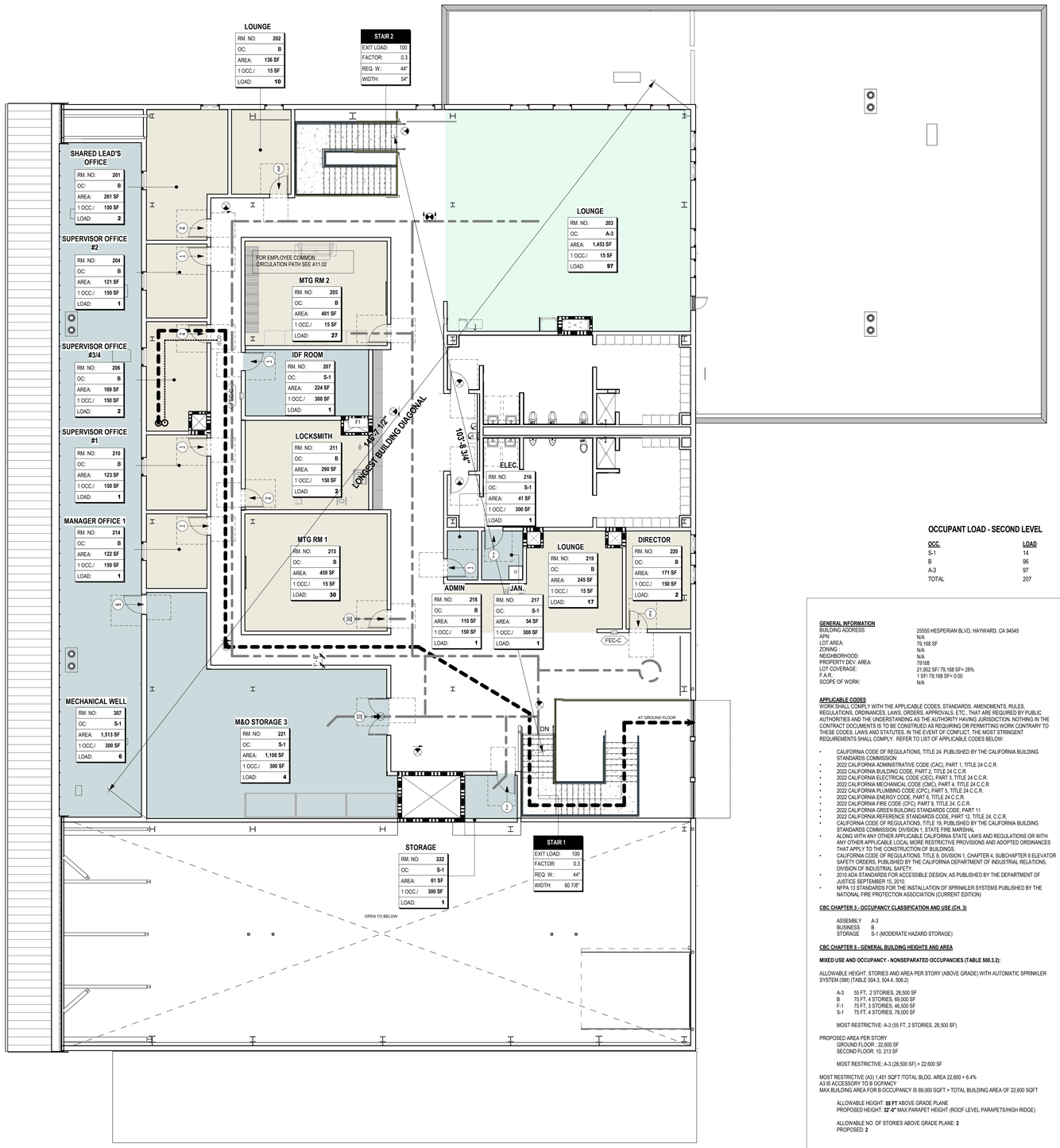
REGISTERED ARCHITECT
C-31715
LICENSE RENEWAL DATE
STATE OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: DECEMBER 17, 2024

CODE ANALYSIS PLAN - GROUND LEVEL

G0.03



1 OVERALL CODE ANALYSIS PLAN - SECOND FLOOR

1/8" = 1'-0"

OCCUPANT LOAD - SECOND LEVEL

OCC.	LOAD
S-1	14
B	96
A-3	97
TOTAL	207

OCCUPANCY & EXITING LEGEND

OCCUPANCY GROUPS

- A-3
- B
- CIRCULATION AND RRs
- S-1

EXIT SIGN

- EXIT SIGN - CEILING HUNG, S.E.D.
- DIRECTION OF EGRESS
- DIRECTION OF EGRESS
- EXIT SIGN - WALL HUNG, S.E.D.

PARTITION RATING

- 3 HOUR FIRE-RESISTANCE
- 2 HOUR FIRE-RESISTANCE
- 1 HOUR FIRE-RESISTANCE

PARTITION TYPE

- FIRE WALL
- FIRE BARRIER
- FIRE PARTITION
- SMOKE BARRIER
- SMOKE PARTITION

- FOR FIRE DOOR RATINGS SEE CBC TABLE 716.1(2)
- FOR FIRE WINDOWS SEE CBC TABLE 716.1(3)

FIRE EXTINGUISHERS (CFC SEC.906)

ALL FEC ARE SEMI-RECESSED.
MAX TRAVEL DIST TO NEAREST FEC NOT TO EXCEED 75'

- FEC LOCATION
- FIRE HOSE CABINET
- STROBE
- PULL STATION

ROOM TAG

Name	
RM. NO:	101
OC:	B
AREA:	150 SF
1 OCC./	100 SF
LOAD:	OL

- ROOM NAME
- ROOM NUMBER
- OCCUPANCY (CBC 302)
- AREA IN SQUARE FEET
- DESIGN OCC. LOAD FACTOR (CBC TABLE 1004.5)
- TOTAL SPACE OCCUPANCY LOAD

EXIT DOOR TAG

DOOR 1i	
EXIT LOAD:	EL
FACTOR:	0.2
REQ. W.:	ReqW
WIDTH:	32"

- DOOR MARK
- EXIT OCCUPANCY LOAD
- FACTOR (CBC 1005.3.2)
- DOOR CLEAR WIDTH REQUIRED
- DOOR CLEAR WIDTH PROVIDED

EXIT STAIR TAG

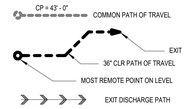
STAIR 1: B1-L1	
EXIT LOAD:	OL
FACTOR:	0.2
REQ. W.:	ReqW
WIDTH:	32"

- STAIR MARK
- LEVELS SERVED
- EXIT OCCUPANCY LOAD
- FACTOR (CBC 1005.3.1)
- CLEAR WIDTH REQUIRED
- CLEAR WIDTH PROVIDED

EMPLOYEE COMMON CIRCULATION

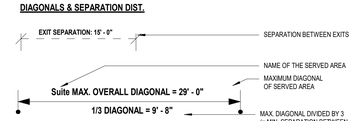
- EMPLOYEE ACCESSIBLE CIRCULATION CLEAR WIDTH PATH PER CBC 11B-403.5.1

EXIT ACCESS TRAVEL DISTANCE



EXIT LOAD TAG

DIAGONALS & SEPARATION DIST.



CODE SUMMARY

GENERAL INFORMATION

BUILDING ADDRESS:	25555 HESPERIAN BLVD, HAYWARD, CA 94545
APN:	N/A
LOT AREA:	79,168 SF
ZONING :	N/A
NEIGHBORHOOD:	N/A
PROPERTY DEV. AREA:	79168
LOT COVERAGE:	21,952 SF/ 79,168 SF= 28%
F.A.R.:	1 SF/ 79,168 SF= 0.00
SCOPE OF WORK:	N/A

APPLICABLE CODES

WORK SHALL COMPLY WITH THE APPLICABLE CODES, STANDARDS. AMENDMENTS, RULES, REGULATIONS, ORDINANCES, LAWS, ORDERS, APPROVALS, ETC., THAT ARE REQUIRED BY PUBLIC AUTHORITIES AND THE UNDERSTANDING AS THE AUTHORITY HAVING JURISDICTION. NOTHING IN THE CONTRACT DOCUMENTS IS TO BE CONSTRUED AS REQUIRING OR PERMITTING WORK CONTRARY TO THESE CODES, LAWS AND STATUTES. IN THE EVENT OF CONFLICT, THE MOST STRINGENT REQUIREMENTS SHALL COMPLY. REFER TO LIST OF APPLICABLE CODES BELOW:

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- 2022 CALIFORNIA REFERENCE STANDARDS CODE, PART 12, TITLE 24, C.C.R.
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CBC CHAPTER 3 - OCCUPANCY CLASSIFICATION AND USE (CH. 3)

ASSEMBLY	A-3
BUSINESS	B
STORAGE	S-1 (MODERATE HAZARD STORAGE)

CBC CHAPTER 5 - GENERAL BUILDING HEIGHTS AND AREA

MIXED USE AND OCCUPANCY - NONSEPARATED OCCUPANCIES (TABLE 508.3.2):

ALLOWABLE HEIGHT, STORIES AND AREA PER STORY (ABOVE GRADE) WITH AUTOMATIC SPRINKLER SYSTEM (SM) (TABLE 504.3, 504.4, 506.2)

A-3	55 FT, 2 STORIES, 28,500 SF	
B	75 FT, 4 STORIES, 69,000 SF	
F-1	75 FT, 3 STORIES, 46,500 SF	
S-1	75 FT, 4 STORIES, 78,000 SF	

MOST RESTRICTIVE: A-3 (55 FT, 2 STORIES, 28,500 SF)

PROPOSED AREA PER STORY
GROUND FLOOR : 22,600 SF
SECOND FLOOR: 10, 213 SF

MOST RESTRICTIVE: A-3 (28,500 SF) > 22,600 SF

MOST RESTRICTIVE (A3) 1,451 SQFT /TOTAL BLDG. AREA 22,600 = 6.4%
A3 IS ACCESSORY TO B OCPANCY
MAX BUILDING AREA FOR B OCCUPANCY IS 69,000 SQFT > TOTAL BUILDING AREA OF 22,600 SQFT

ALLOWABLE HEIGHT: **55 FT** ABOVE GRADE PLANE
PROPOSED HEIGHT: **32'-0"** MAX PARAPET HEIGHT (ROOF LEVEL PARAPETS/HIGH RIDGE)

ALLOWABLE NO. OF STORIES ABOVE GRADE PLANE: **2**
PROPOSED: **2**

CBC CHAPTER 6 - TYPE OF CONSTRUCTION

TYPE II-B
FULL SPRINKLERED : EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM

FIRE RESISTANCE REQUIREMENTS FOR BUILDING ELEMENTS (CBC TABLE 601)

BUILDING ELEMENT	FIRE RESISTANCE RATING REQUIRED	PROVIDED	REMARKS
PRIMARY STRUCTURAL FRAMING	0	0	-
BEARING WALLS (EXTERIOR)	0	0	-
BEARING WALLS (INTERIOR)	0	0	-
NONBEARING WALLS AND PARTITIONS (INTERIOR)	0	0	-
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0	0	-
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0	0	-

FIRE RESISTANCE REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE (CBC TABLE 705.5)

FIRE SEPARATION DISTANCE = X FEET	FIRE SEPARATION REQUIRED	PROVIDED	FIRE RATING REQUIRED	PROVIDED	REMARKS
NORTH	X>30	0	0HR	0HR	-
SOUTH	X>30	0	0HR	0HR	-
EAST	X>30	0	0HR	0HR	-
WEST	X>30	0	0HR	0HR	-

CBC CHAPTER 7 - FIRE AND SMOKE PROTECTION

EXTERIOR WALLS AND PROJECTION (SEC. 705.2):

PROJECT MEETS EXCEPTION. BUILDINGS ON THE SAME LOT.

FIRE-RATED CONSTRUCTION (SEC. 713.4):
2HR SHAFT ENCLOSURES - ELEVATOR SHAFT
1HR SHAFT ENCLOSURES - CONNECTING NOT LESS THAN FOUR STORIES

FIRE-RATED OPENING PROTECTIVES, RATINGS (TABLE 716.1):
2 HR WALL 1 1/2 HR DOOR SHAFT, INTERIOR EXIT STAIRWAYS
1 HR WALL 1 HR DOOR FIRE BARRIER: SHAFT, EXIT ACCESS STAIRWAY, ETC.

CBC CHAPTER 8 - INTERIOR FINISHES

INTERIOR WALL AND CEILING FINISHES REQUIREMENTS BY OCCUPANCY (SEC. 803.13):

OCCUPANCY	INTERIOR EXIT STAIRWAYS AND GROUP RAMPS AND EXIT PASSAGEWAYS	CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRWAY AND RAMPS	ROOMS AND ENCLOSED SPACES
A3	B	B	C
B	B	C	C
F	C	C	C
S	C	C	C

FLAME SPREAD CLASS:
CLASS A - FLAME SPREAD INDEX 0-25, SMOKE DEVELOPED INDEX 0-450
CLASS B - FLAME SPREAD INDEX 26-75, SMOKE DEVELOPED INDEX 0-450
CLASS C - FLAME SPREAD INDEX 76-200, SMOKE DEVELOPED INDEX 0-450

FLOORS TO MEET THE REQUIREMENTS OF SECTION 804.

CBC CHAPTER 9 - FIRE PROTECTION AND LIFE SAFETY SYSTEMS

AUTOMATIC SPRINKLER SYSTEM (SEC. 903):
STANDPIPE SHALL BE CLASS 1

PORTABLE FIRE EXTINGUISHERS (SEC. 906):
CLASS A FIRE HAZARD
LIGHT HAZARD OCCUPANCY
2-A RATING
3,000 SF MAX PER UNIT OF A
11,250 SF MAX PER EXTINGUISHER
75FT MAX DISTANCE

MIN. RATING AND NUMBER OF EXTINGUISHERS REQUIRED:

GROUND FLOOR: 21,948 SF/3,000SF = 7.3 (8 UNITS OF A REQUIRED), **(2) 2-A PROVIDED (BASED ON MAX. AREA CALC.)**
SECOND FLOOR: 10, 213SF/3,000 SF = 3.4 (4 UNITS OF A REQUIRED), **(5) 2-A PROVIDED**

FIRE ALARM (SEC. 907):
EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM TO BE PROVIDED
(SEE FIRE ALARM DWGS).

CBC CHAPTER 10 MEANS OF EGRESS

DESIGN OCCUPANT LOAD (SEC. 1004.1):
MAX. FLOOR AREA ALLOWANCES PER OCCUPANT (SEC. 1004.5)

A-3 (ASSEMBLY)	15 SF NET
B (BUSINESS AREAS OFFICE)	150 SF GROSS
B (INDUSTRIAL)	100 SF GROSS
S-1 (STORAGE)	300 SF GROSS
S-1 (WAREHOUSE)	500 SF GROSS

MEANS OF EGRESS SIZING (SEC. 1005):
SEE EGRESS PLANS FOR ACTUAL CAPACITIES

	WIDTH (INCHES/OCCUPANT)	
STAIRWAYS	0.2	(SEC. 1005.3.1 EXCEPTION 1)
OTHER EGRESS COMPONENTS	0.15	(SEC. 1005.3.2 EXCEPTION 2)

EGRESS CONVERGENCE AT LEVEL 1 (SEC. 1005.6)

SPACES WITH A SINGLE EXIT (SPRINKLER) (SEC. 1006.2.1):

GROUP	MAX. OCC. LOAD	MAX. COMMON PATH OF EGRESS
A	49	75 FT
B	49	100 FT
F	49	100FT
S	29	100FT

NUMBER OF EXITS (SEC. 1006.3.1):

OCCUPANTS	NUMBER OF EXITS OR EXIT ACCESS PER STORY
1-500	2 REQUIRED. **2 PROVIDED**

CONFIGURATION (SEC. 1007.1.1 EXCEPTION 2):
TWO EXITS, EXIT ACCESS DOORWAYS, EXIT ACCESS STAIRWAYS OR RAMPS, OR ANY COMBINATION
THEREOF.THEY SHALL BE PLACED A DISTANCE APART NOT LESS THAN ONE THIRD THE LENGTH OF
THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE AREA SERVED.

ALL DIAGONALS SHOWN ON EGRESS PLANS CONFORM.

ACCESSIBLE ROUTE (SEC. 1009):
TO BE PROVIDED TO SPACES.

DOORS, GATES AND TURNSTILES (SEC. 1010.1):
DOOR MIN. CLEAR WIDTH: 32" WITH MAX. LEAF 48" WIDE.

STAIRWAYS (SEC. 1011.2):
WIDTH: 44 INCHES MIN., 36 INCHES IF OCC. LOAD <50 (EXCEPTION 1)
HEADROOM: 80 INCHES MIN.
RISER HEIGHT: 4-7 INCHES MAX.
RISER DEPTH: 11 INCHES MIN.

EXIT ACCESS TRAVEL DISTANCE (SPRINKLER) (SEC. 1017):

GROUP	MAX. EXIT ACCESS TRAVEL DISTANCE
A	250FT
B	300 FT
F	250FT
S	250 FT

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APP: 01-121159 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 2/19/2025

CLIENT
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25555 HESPERIAN BLVD
HAYWARD, CA 94612

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2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

△	date	issue description

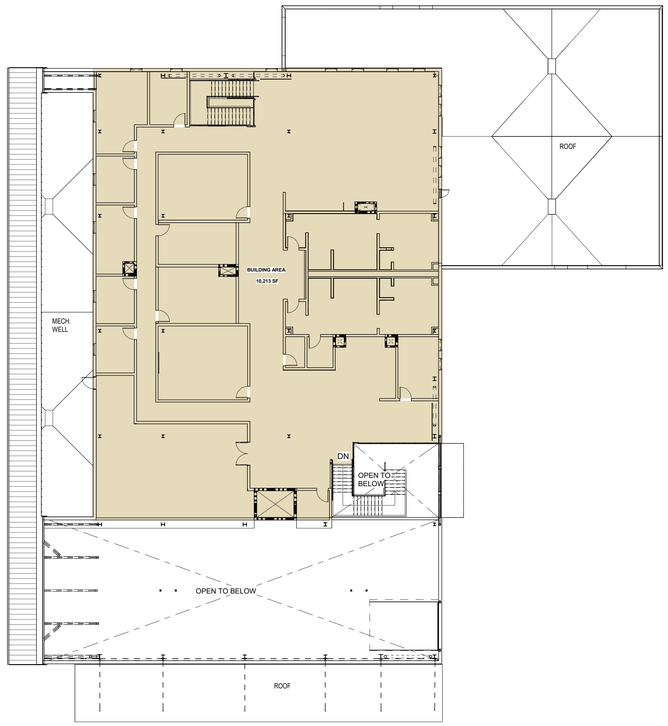
REGISTERED ARCHITECT
CHRISTOPHER M. PINK
C-27915
RENEWAL DATE
STATE OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

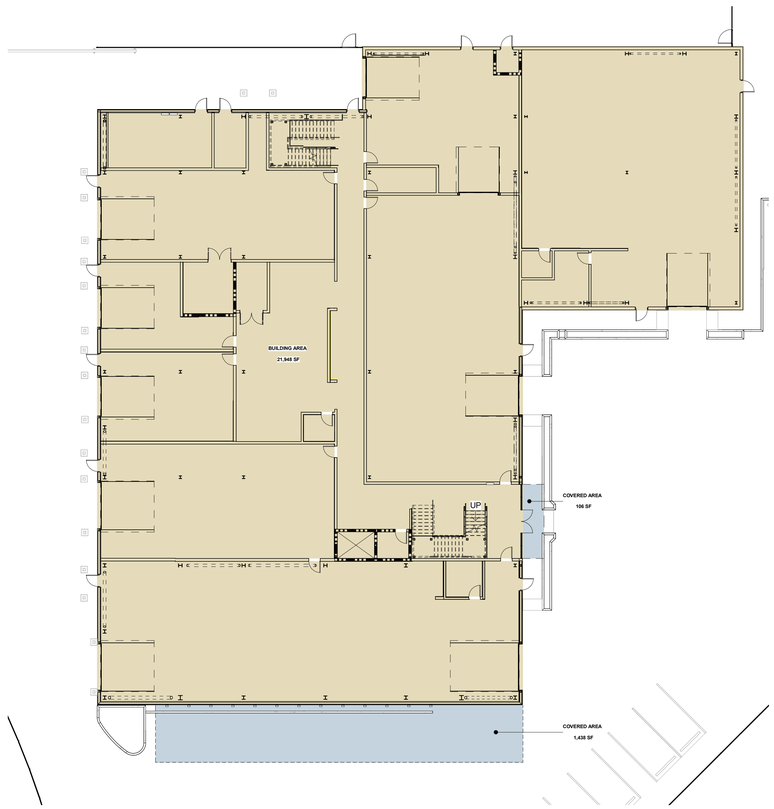
project number: 20-296
date: DECEMBER 17, 2024

CODE ANALYSIS PLAN - SECOND LEVEL

G0.04



19 G0.05 GROSS BUILDING AREA PLAN - SECOND LEVEL 1/16" = 1'-0"



11 G0.05 GROSS BUILDING AREA PLAN - GROUND LEVEL 1/16" = 1'-0"

GROSS BUILDING AREA

GROUND FLOOR	BUILDING AREA	21,948 SF
GROUND FLOOR	COVERED AREA	1,438 SF
GROUND FLOOR	COVERED AREA	106 SF
SECOND FLOOR	BUILDING AREA	10,213 SF
TOTAL AREA		33,706 SF

* TARGET: 32,405 SF
+1% = 32,738 SF

BUILDING AREA

17 G0.05 ASSIGNABLE AREA PLAN - SECOND LEVEL 1/16" = 1'-0"

9 G0.05 ASSIGNABLE AREA PLAN - GROUND LEVEL 1/16" = 1'-0"

LOUNGE
MEETING
OFFICE
SHOP
SHOP SERVICE
SUPPORT
WAREHOUSE

ASSIGNABLE AREA

ASSIGNABLE AREA (BY FLOOR)

Room	FPP PROGRAM ASF	PROPOSED ASF	ASF DELTA	Department
WAREHOUSE				
SECURE WH	189 SF	191 SF	2 SF	WAREHOUSE
WAREHOUSE	3,211 SF	3,263 SF	52 SF	WAREHOUSE
2	3,400 SF	3,454 SF		
SHOP SERVICE				
BDF		102 SF		SHOP SERVICE
COVERED FLEET PARKING	960 SF	1,438 SF	478 SF	SHOP SERVICE
CUSTODIAL	1,380 SF	1,310 SF	-70 SF	SHOP SERVICE
CUSTODIAL KEY	120 SF	120 SF	0 SF	SHOP SERVICE
M&O STORAGE 1	3,000 SF	2,986 SF	-14 SF	SHOP SERVICE
M&O STORAGE 2	1,250 SF	993 SF	-257 SF	SHOP SERVICE
M&O STORAGE 3	1,000 SF	1,108 SF	108 SF	SHOP SERVICE
STORAGE		61 SF		SHOP SERVICE
WH SERV.	300 SF	272 SF	-28 SF	SHOP SERVICE
9	8,010 SF	8,391 SF		
SHOP				
CARPENTRY SHOP	1,500 SF	1,496 SF	-4 SF	SHOP
ELEC. SHOP	750 SF	594 SF	-156 SF	SHOP
GROUNDS SHOP	1,875 SF	1,828 SF	-47 SF	SHOP
HVAC SHOP	770 SF	814 SF	44 SF	SHOP
LOCKSMITH	300 SF	290 SF	-10 SF	SHOP
PAINT SHOP		179 SF		SHOP
SECURE SHOP		89 SF		SHOP
VEHICLE MAINT. SHOP	4,000 SF	3,901 SF	-99 SF	SHOP
8	9,195 SF	9,191 SF		
OFFICE				
ADMIN	100 SF	110 SF	10 SF	OFFICE
DIRECTOR	170 SF	171 SF	1 SF	OFFICE
MANAGER OFFICE 1	120 SF	122 SF	2 SF	OFFICE
SHARED LEAD'S OFFICE	250 SF	261 SF	11 SF	OFFICE
SUPERVISOR OFFICE #1	120 SF	123 SF	3 SF	OFFICE
SUPERVISOR OFFICE #2	120 SF	121 SF	1 SF	OFFICE
SUPERVISOR OFFICE #3/4	180 SF	169 SF	-11 SF	OFFICE
7	1,060 SF	1,077 SF		
MEETING				
MTG RM 1	450 SF	450 SF	0 SF	MEETING
MTG RM 2	400 SF	401 SF	1 SF	MEETING
2	850 SF	850 SF		
LOUNGE				
LOUNGE	120 SF	136 SF	16 SF	LOUNGE
LOUNGE	1,440 SF	1,453 SF	13 SF	LOUNGE
LOUNGE	240 SF	245 SF	5 SF	LOUNGE
3	1,800 SF	1,834 SF		
LOBBY		163 SF		
MECHANICAL WELL		1,513 SF		
STAIR 1		487 SF		
STAIR 2		232 SF		
TRASH ENCLOSURE		534 SF		
5	0 SF	2,930 SF		
36	24,315 SF	27,728 SF		

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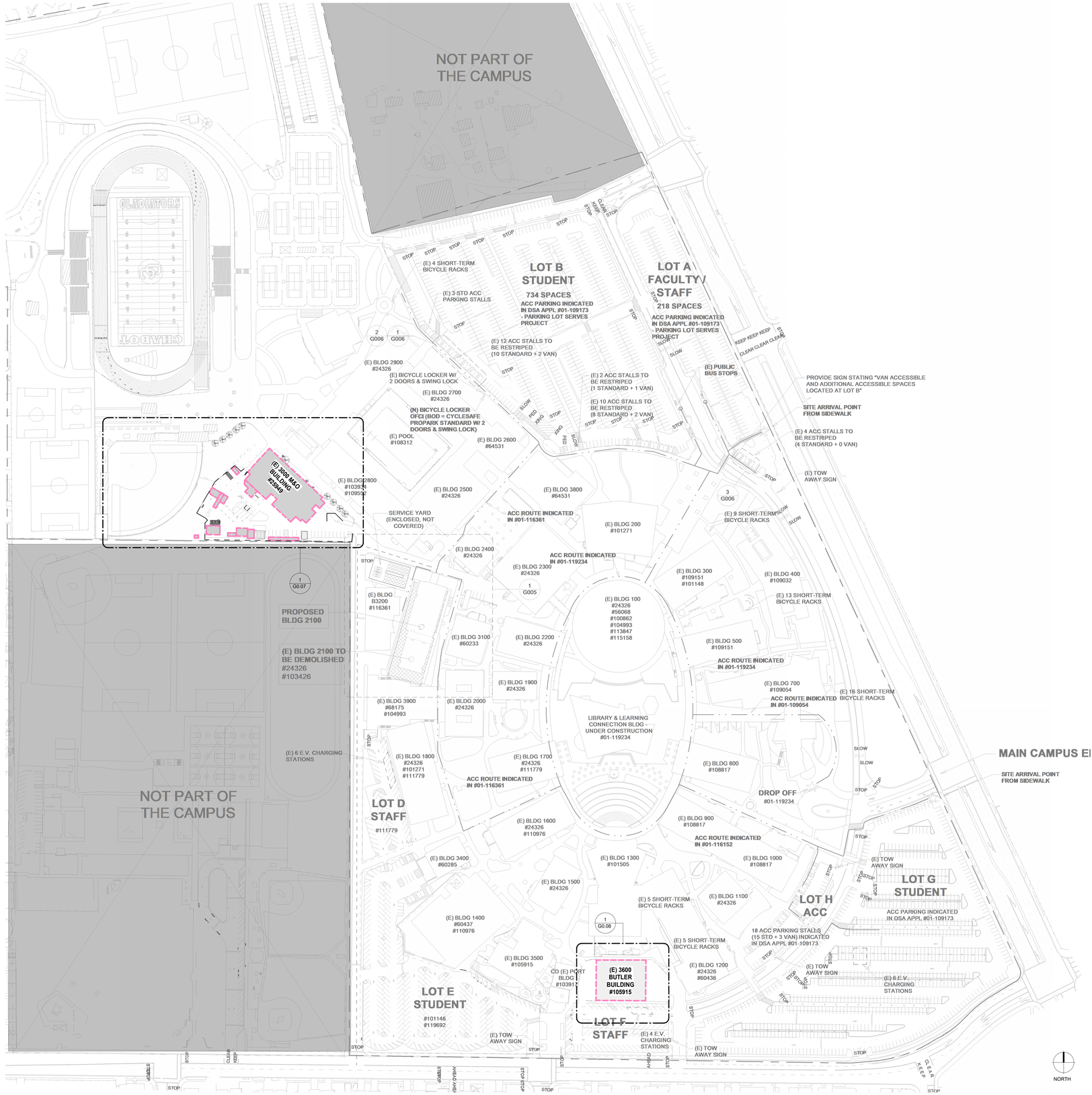
REGISTERED ARCHITECT
C-31015
RENEWAL DATE
STATE OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: DECEMBER 17, 2024

AREA PLANS

G0.05



1" = 100'-0"

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B. REMOVE EXISTING CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, FLOOR FINISHES, WALLS, CEILINGS, WALL BASE, AND OTHER EXISTING CONSTRUCTION AS INDICATED OR REQUIRED FOR NEW WORK, UNLESS NOTED OTHERWISE.
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V. SEE CIVIL, LANDSCAPE, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING DRAWINGS FOR MORE DETAIL U.O.N.

CAMPUS DEMOLITION LEGEND

AREA OF WORK

KEYNOTE LEGEND

0000 KEYNOTE TAG

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C-31715
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STATE OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: DECEMBER 17, 2024

DEMOLITION FLOOR PLAN - M&O BUILDING & BUTLER BUILDING

G0.06

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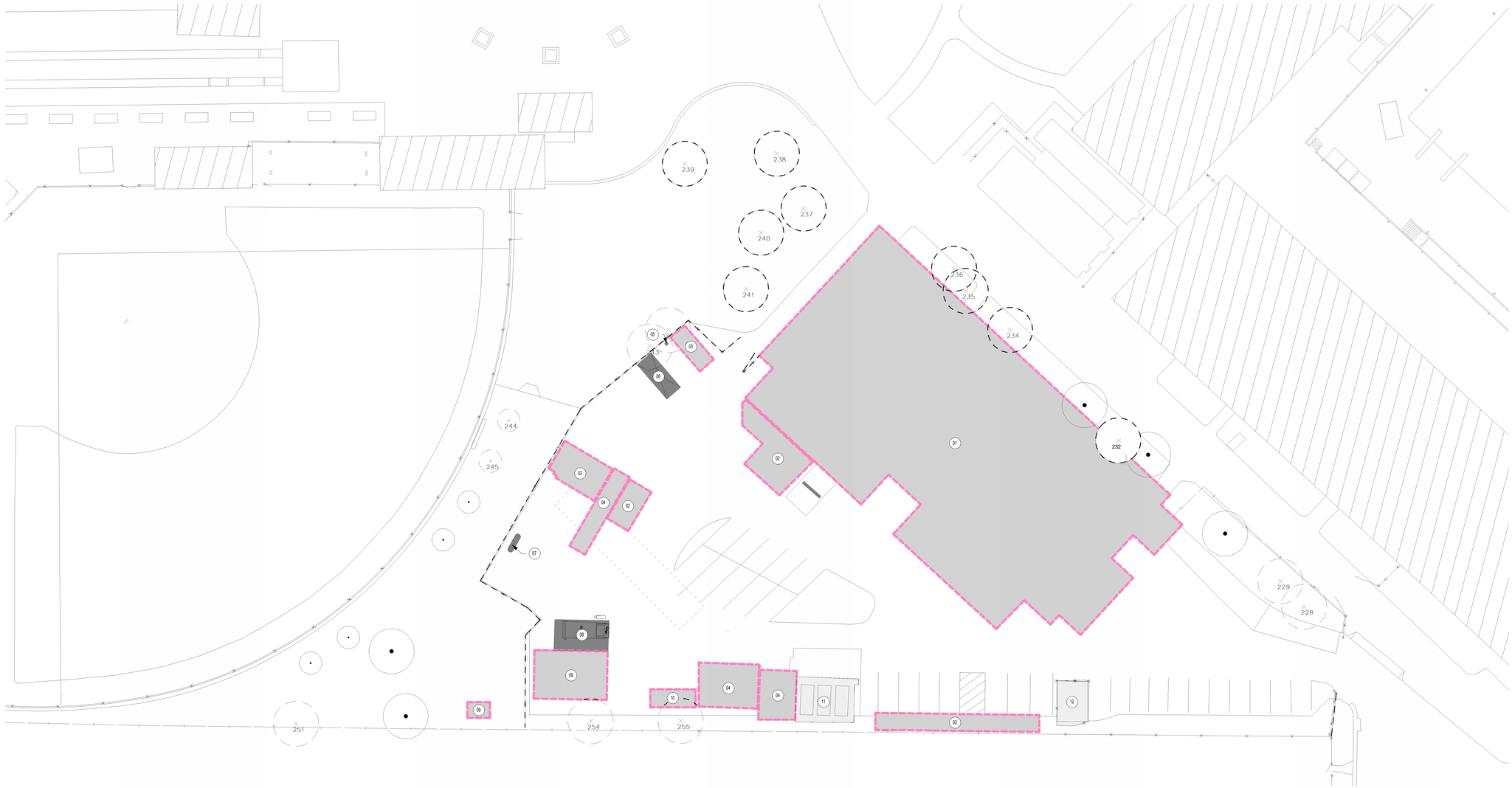

1 DEMOLITION PLAN - 3000 M&O BUILDING — 1" = 20'-0"

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DEMOLITION PLAN LEGEND

- EXISTING TREE TO REMAIN, S.L.D.
- EXISTING TREE TO DEMOLISH, S.L.D.
- REMOVE EXISTING FENCE
- REMOVE OR DEMOLISH BUILDING OR STRUCTURE
- RELOCATE STRUCTURE OR ITEM
- TO REMAIN - PROTECT IN PLACE

BUILDINGS AND STRUCTURES ON SITE

01 (E) M&O 3000 BUILDING - (TO BE DEMOLISHED OR REMOVED)
02 (E) SHADE STRUCTURE - (TO BE DEMOLISHED OR REMOVED)
03 (E) SHIPPING CONTAINERS - (TO BE DEMOLISHED OR REMOVED)
04 (E) STORAGE CONTAINER - (TO BE DEMOLISHED OR REMOVED)
05 (E) IRRIGATION CONTROLLER
06 (E) HAZARDOUS PAINT SHED - STRUCTURE TO BE DEMLISHED, PAINT STORAGE TO BE RELOCATED. SEE STO-32 A11.01B
07 (E) PROPANE TANK - NEW TANK PROVIDED AND INSTALLED BY 3RD PARTY VENDOR - SEE ANCHOR DETAIL ON 12 / S4.01
08 (E) TRASH COMPACTOR - TO BE RELOCATED PER 10/A6.51 1 / S5.05
09 (E) WOOD SHED - (TO BE DEMOLISHED OR REMOVED)
10 (E) STORAGE SHED - (TO BE DEMOLISHED OR REMOVED)
11 (E) FUEL TANKS - TO BE PROTECTED IN PLACE
12 (E) GAS REGULATORS ENCLOSURE

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CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
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DEMOLITION FLOOR PLAN - M&O BUILDING

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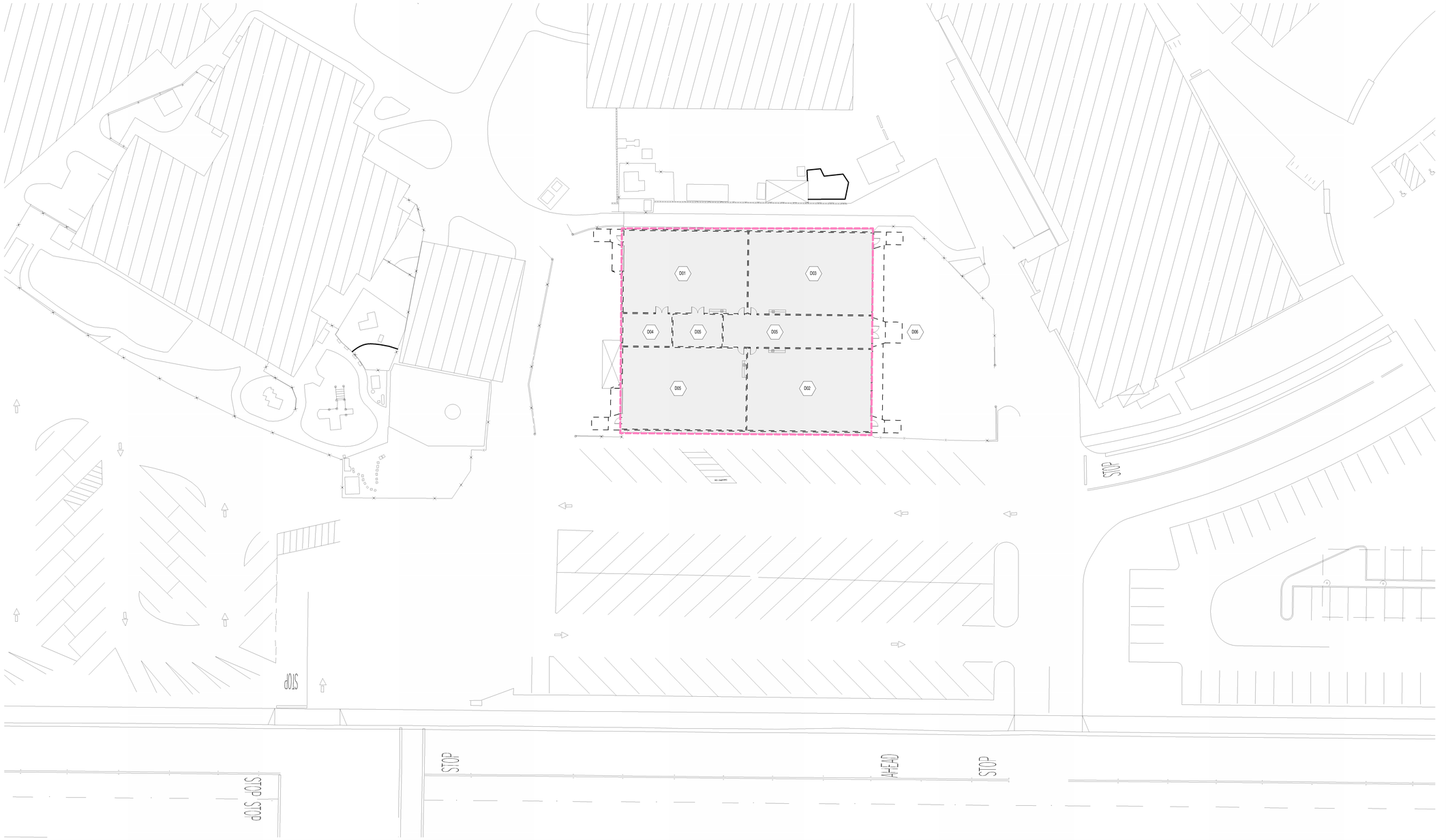

1 DEMOLITION PLAN - 3600 BUTLER BUILDING
G0.08

1" = 20'-0"

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- REMOVE OR DEMOLISH BUILDING OR STRUCTURE
- RELOCATE STRUCTURE OR ITEM
- TO REMAIN - PROTECT IN PLACE

DEMOLITION KEYNOTES

- D01 RELOCATE RELEVANT EQUIPMENT AND STORAGE TO NEW M&O BUILDING
- D02 RELOCATE RELEVANT EQUIPMENT AND STORAGE TO NEW M&O BUILDING
- D03 RELOCATE RELEVANT STORAGE TO NEW WAREHOUSE IN NEW M&O BUILDING
- D04 RELOCATE RELEVANT CUSTODIAL EQUIPMENT TO NEW M&O BUILDING
- D05 DISTRICT TO REMOVE, STORE, AND RELOCATE MISC. CONSUMABLE ITEMS AS APPLICABLE
- D06 (E) BUTLER BUILDING STRUCTURE & ENVELOPE ASSEMBLY TO BE DISASSEMBLED FOR STORAGE - FOUNDATIONS TO BE DEMOLISHED - CONTRACTOR TO COORDINATE - DISTRICT TO ADVISE STORAGE LOCATION AND REUSE OF THE STRUCTURE AS A SEPERATE JOB, NIC

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CHABOT COLLEGE

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HAYWARD, CA 94612

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2	2024.12.17	DSA PC2
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	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

#	date	issue description

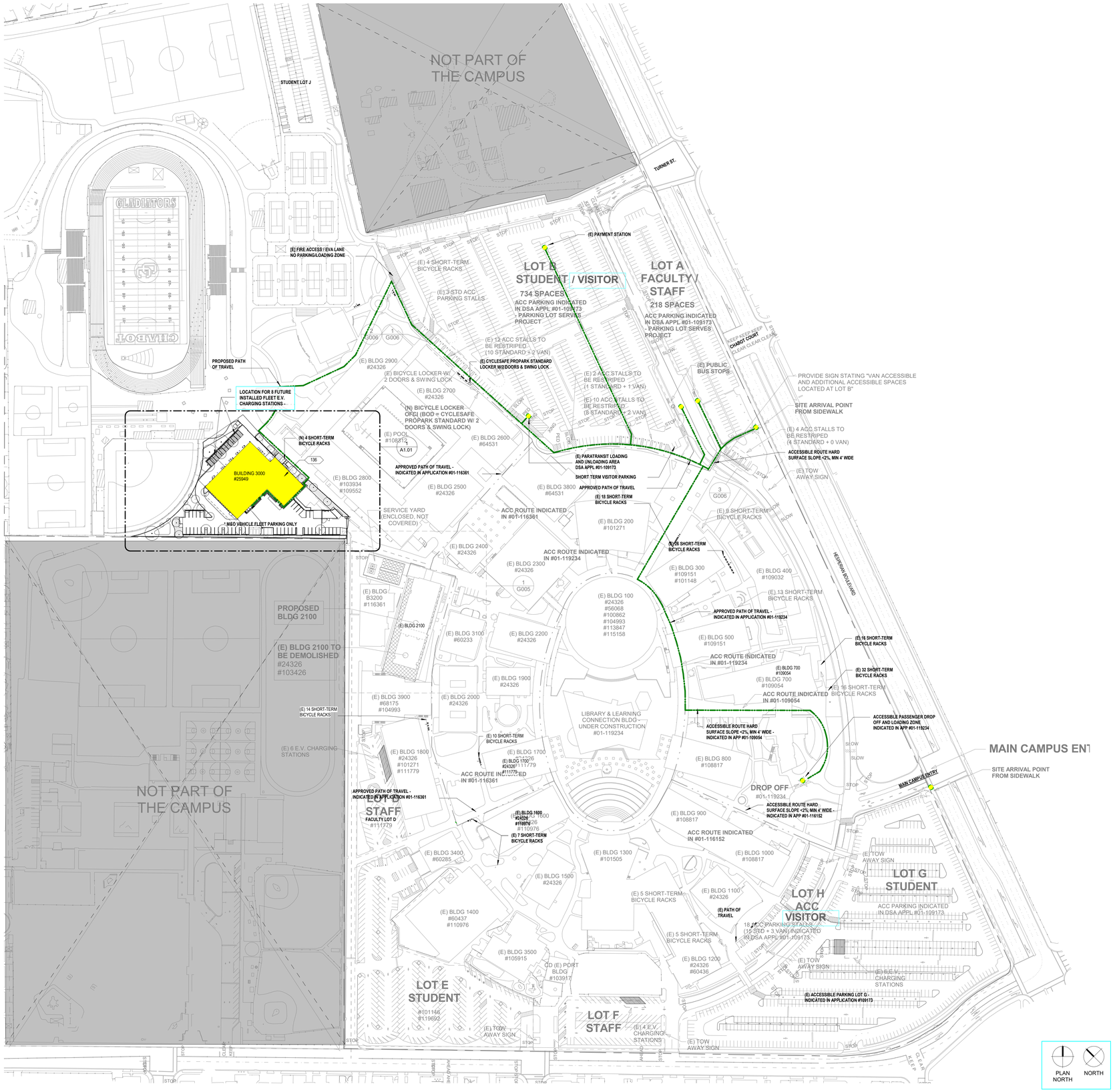
REGISTERED ARCHITECT C-31715 RENEWAL DATE STATE OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: DECEMBER 17, 2024

DEMOLITION FLOOR PLAN - BUTLER BUILDING

G0.08



1" = 100'-0"

1 SCOPE OF WORK

DSA PR 15-01: REQUIRED INFORMATION FOR PATH OF TRAVEL UPGRADES

"DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NON-COMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THE ITEMS SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT."

NOTE: ALL (E) PARKING COUNTS HAVE BEEN PROVIDED BY CHABOT COLLEGE

PARKING LOTS	TOTAL SPACES	CAR ACCESSIBLE SPACES	VAN ACCESSIBLE SPACES
(E) A	229	3	1
(E) B	796	11	2
(E) C	44	0	1
(E) D	57	0	0
(E) E	227	5	1
(E) F	67	3	1
(E) G	751	0	0
(E) H	44	17	4
(E) J	151	6	1
(E) SUBTOTAL	*2366*	*45*	*11*
M&O PARKING LOT	53	0	0
TOTAL	**2419**	**45**	**11**

NOTES:
1. PROPOSED ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER FREE ACCESS P.O.T. WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAX. SLOPE, OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAX. AND AT LEAST 48" WIDE. SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. P.O.T. SHALL MAINTAIN FREE OF OVERHANGING OBSTRUCTIONS TO MINIMUM 80" (11B-307.4) AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80" (11B-307.2)

2. ALL BUILDING ENTRANCES / EXITS ALONG THE INDICATED PROPOSED PATH OF TRAVEL ARE ACCESSIBLE UNLESS OTHERWISE NOTED.

3. EXISTING ACCESSIBLE PARKING, ENTRANCES, AND PATHS OF TRAVEL ARE SHOWN ACCORDING TO INFORMATION PROVIDED BY THE COLLEGE OF CHABOT.

4. INFORMATION ON PROPOSED ACCESSIBLE PARKING, ENTRANCES, AND PATHS OF TRAVEL WITHIN WORK LIMIT OF PROJECTS OTHER THAN THAT CONTAINED IN THIS SUBMITTAL ARE PROVIDED BY THE COLLEGE OF CHABOT AND NOT VERIFIED BY THE ARCHITECT.

5. MINIMUM REQUIRED ACCESSIBLE PARKING SPACES (1,001 AND OVER) PER CBC TABLE 11B-6:
20+1 FOR EACH 100, OR FRACTION THEREOF, OVER 1000
=20+(2419-1000)/100)
=20+14.19
=35 ACCESSIBLE PARKING STALLS REQUIRED - 45 PROVIDED

VAN SPACES REQUIRED
=35/8
=5 VAN PARKING STALL REQUIRED - 11 PROVIDED

6. BICYCLE PARKING PER SECTION 5.106 SITE DEVELOPMENT MANDATORY MEASURES
5.106.4.2.1 STUDENT BICYCLE PARKING PROVIDE FOUR TWO-BIKE CAPACITY RACK PER NEW BUILDING = 4 PROVIDED

5.106.4.2.2 STAFF BICYCLE PARKING - PROVIDE TWO STAFF BICYCLE PARKING SPACES PER NEW BUILDING = 2 PROVIDED

LEGEND:

- PROPERTY LINE
- (E) ACCESSIBLE PATH OF TRAVEL
- PROPOSED ACCESSIBLE PATH OF TRAVEL
- EMERGENCY VEHICLE ACCESS

- FH FIRE HYDRANT (EXISTING)
- NH FIRE HYDRANT (PROPOSED)
- DF ACCESSIBLE DRINKING FOUNTAIN (EXISTING)
- AR ACCESSIBLE RESTROOMS (EXISTING)
- NR ACCESSIBLE RESTROOMS (PROPOSED)
- AG ACCESSIBLE GATE (NEW OR EXISTING)

CAMPUS ACCESSIBILITY LEGEND

0000 KEYNOTE TAG

136 (N) M&O BUILDING 3000

KEYNOTE LEGEND

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	2022.02.28	SCHEMATIC DESIGN

REGISTERED ARCHITECT
M. PARK
No. C-31715
RENEWAL DATE
STATE OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: DECEMBER 17, 2024

CAMPUS ACCESSIBLE SITE PLAN

G0.09

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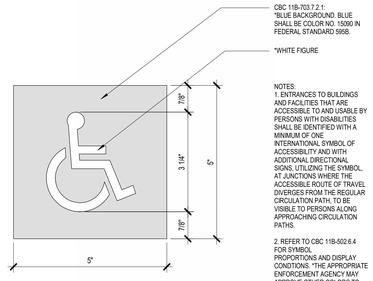
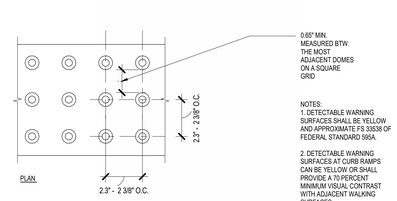


NOTES:
1. ENTRANCES TO BUILDINGS AND FACILITIES THAT ARE ACCESSIBLE TO AND USABLE BY PERSONS WITH DISABILITIES SHALL BE IDENTIFIED WITH A MINIMUM OF ONE INTERNATIONAL SYMBOL OF ACCESSIBILITY AND WITH ADDITIONAL DIRECTIONAL SIGNS, UTILIZING THE SYMBOL, AT JUNCTIONS WHERE THE ACCESSIBLE ROUTE OF TRAVEL DIVERGES FROM THE REGULAR CIRCULATION PATH, TO BE VISIBLE TO PERSONS ALONG APPROACHING CIRCULATION PATHS.

2. REFER TO CBC 11B-502.6.4 FOR SYMBOL PROPORTIONS AND DISPLAY CONDITIONS. *THE APPROPRIATE ENFORCEMENT AGENCY MAY APPROVE OTHER COLORS TO COMPLIMENT DECOR OR UNIQUE DESIGN. THE SYMBOL CONTRAST SHALL BE LIGHT ON DARK OR DARK ON LIGHT.

8 G1.10 ACCESSIBLE SIGN 6" = 1'-0"



NOTES:
1. DETECTABLE WARNING SURFACES SHALL BE YELLOW AND APPROXIMATE FS 33538 OF FEDERAL STANDARD 595A.

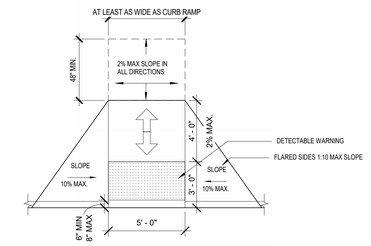
2. DETECTABLE WARNING SURFACES AT CURB RAMPS CAN BE YELLOW OR SHALL PROVIDE A 70 PERCENT MINIMUM VISUAL CONTRAST WITH ADJACENT WALKING SURFACES.

3. DETECTABLE WARNING SURFACES SHALL DIFFER FROM ANY ADJOINING SURFACES IN RESILIENCY OR SOUND-ON-CANE CONTACT.

NOTE: CONTRACTOR TO VERIFY EXISTING CONDITIONS FOR SURFACE APPLIED SYSTEM

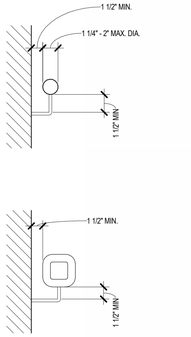
CBC 11B-705.1

7 G1.10 DETECTABLE WARNING 3" = 1'-0"

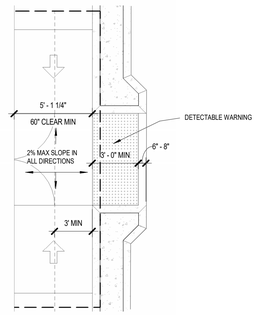


CBC11B-406.2.2, 11B-406.5.3

6 G1.10 CURB RAMPS - PERPENDICULAR 1/4" = 1'-0"



9 G1.10 RAIL PROFILE 1 1/2" = 1'-0"



CBC11B-406.3.2

5 G1.10 CURB RAMPS - PARALLEL 1/4" = 1'-0"

1. DRAWINGS ON THIS SHEET SHOW TYPICAL AND REQUIRED LAYOUTS AND DIMENSIONS. ACTUAL PLANS AND ELEVATIONS IN SET MAY DIFFER, BUT SHOULD CONFORM TO REQUIREMENTS NOTED ON THIS SHEET AND IN THE CALIFORNIA BUILDING CODE.

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	date	issue description

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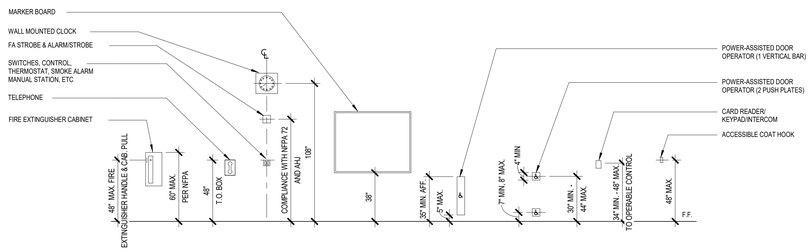
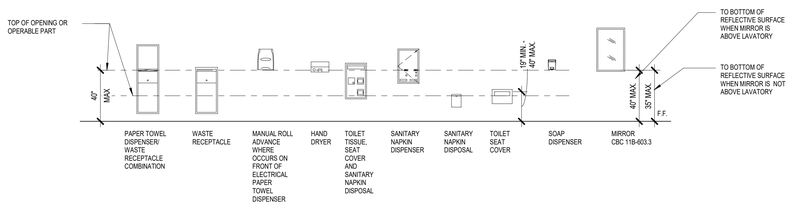
CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: DECEMBER 17, 2024

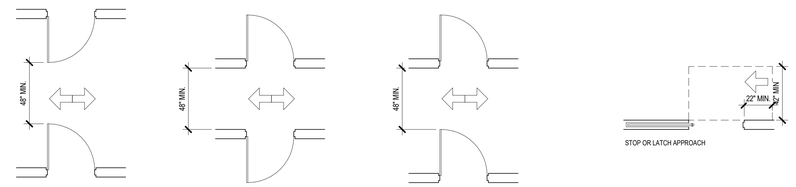
ACCESIBILITY DETAILS - SITE

G1.10

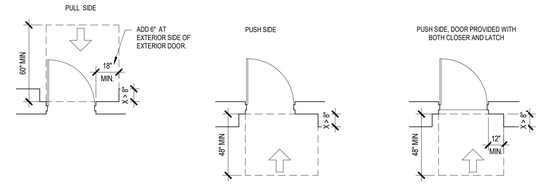




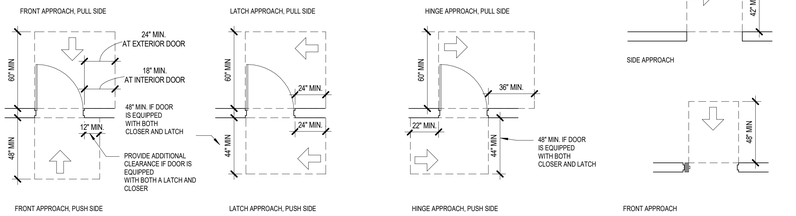
19 G1.11 MISC. DEVICES, ACCESSORIES MOUNTING HEIGHTS 1/4" = 1'-0"



MANEUVERING CLEARANCE DOORS AND GATES IN A SERIES



MANEUVERING CLEARANCE AT RECESSED DOORS AND GATES



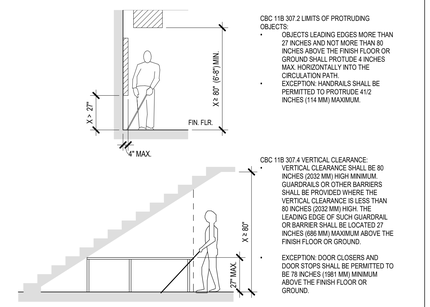
MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS AND GATES

NOTE:
THE FLOOR OR GROUND IN THE REQUIRED MANEUVERING AREA SHALL BE LEVEL AND CLEAR WHEN THE MANEUVERING AREA IS IN THE INTERIOR. WHEN THE MANEUVERING AREA IS IN THE EXTERIOR, IT MAY HAVE A SLOPE NOT TO EXCEED 2%.

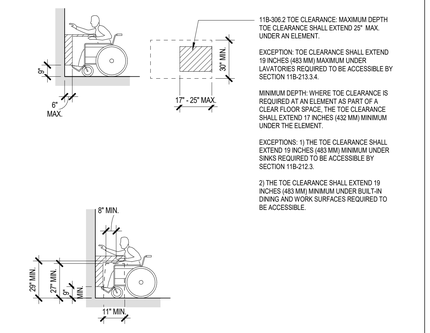
MANEUVERING CLEARANCE AT DOORWAYS WITHOUT DOORS, SLIDING DOORS, GATES AND FOLDING DOORS

CBC 11B-404

11 G1.11 DOOR MANEUVERING CLEARANCES 1/4" = 1'-0"



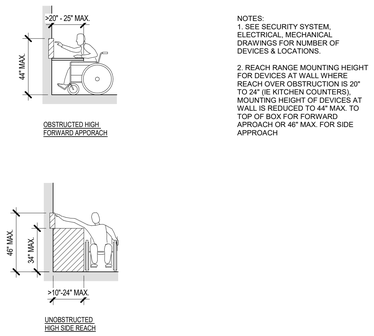
4 G1.11 PROJECTING OBJECTS CLEARANCE 1/4" = 1'-0"



CBC 11B-306

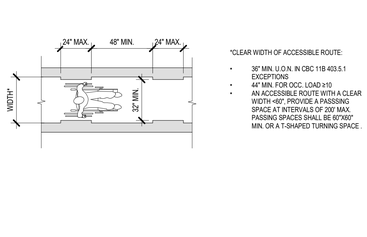
3 G1.11 ACCESSIBLE TOE AND KNEE CLEARANCES 1/4" = 1'-0"

14 G1.11 DOORS LEVER DETAIL 1/2" = 1'-0"



CBC 11B-308

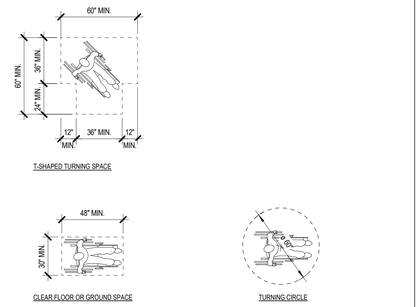
10 G1.11 DEVICES AT OBSTRUCTIONS 1/4" = 1'-0"



*CLEAR WIDTH OF ACCESSIBLE ROUTE:
- 36" MIN. U.O.N. IN CBC 11B 403.5.1 EXCEPTIONS
- 44" MIN. FOR OCC. LOAD ≥10
- AN ACCESSIBLE ROUTE WITH A CLEAR WIDTH <60", PROVIDE A PASSING SPACE AT INTERVALS OF 200' MAX. PASSING SPACES SHALL BE 60"X60" MIN. OR A T-SHAPED TURNING SPACE .

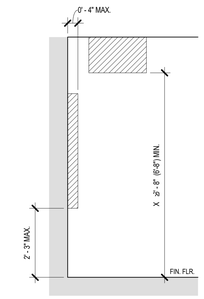
CBC 11B-403

6 G1.11 ACCESSIBLE ROUTE 1/4" = 1'-0"

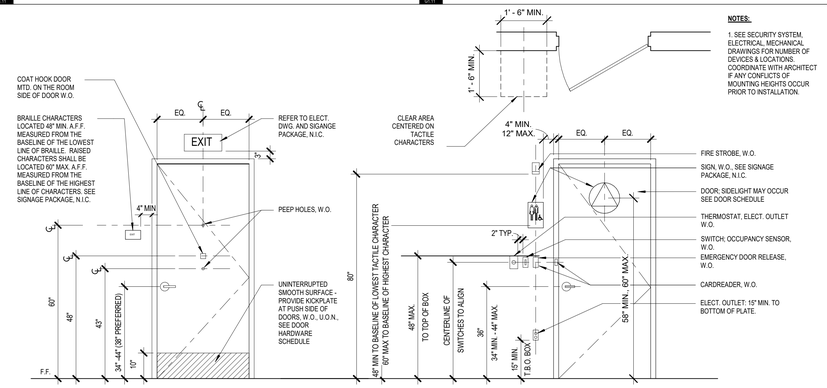


CBC 11B-304, 305

2 G1.11 CLEAR FLOOR OR GROUND SPACE 1/4" = 1'-0"

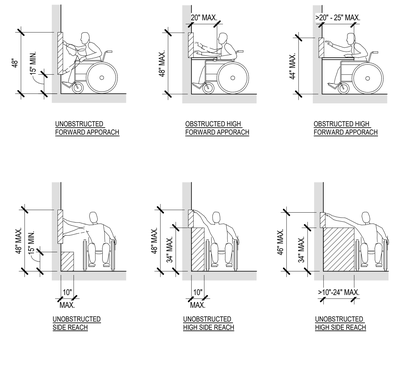


17 G1.11 PROJECTING OBJECTS 1/2" = 1'-0"



NOTES:
1. SEE SECURITY SYSTEM, ELECTRICAL, MECHANICAL DRAWINGS FOR NUMBER OF DEVICES & LOCATIONS. COORDINATE WITH ARCHITECT IF ANY CONFLICTS OF MOUNTING HEIGHTS OCCUR PRIOR TO INSTALLATION.

13 G1.11 DEVICE, HARDWARE, & SIGNAGE LOCATIONS @ DOORS 1/2" = 1'-0"



CBC 11B-308

5 G1.11 ACCESSIBLE REACH RANGES 1/4" = 1'-0"

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C-31415
RENEWAL DATE

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25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
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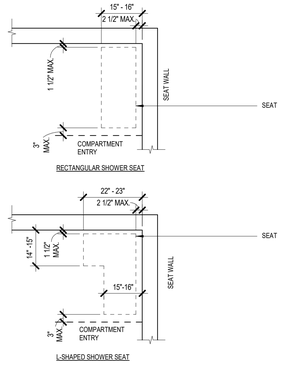
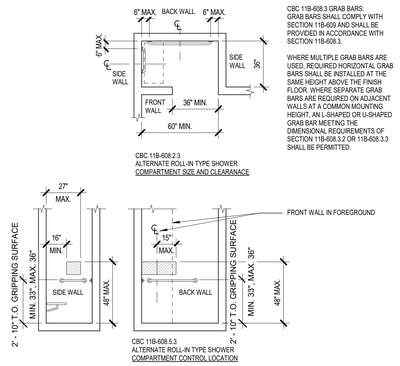
ACCESSIBILITY DETAILS

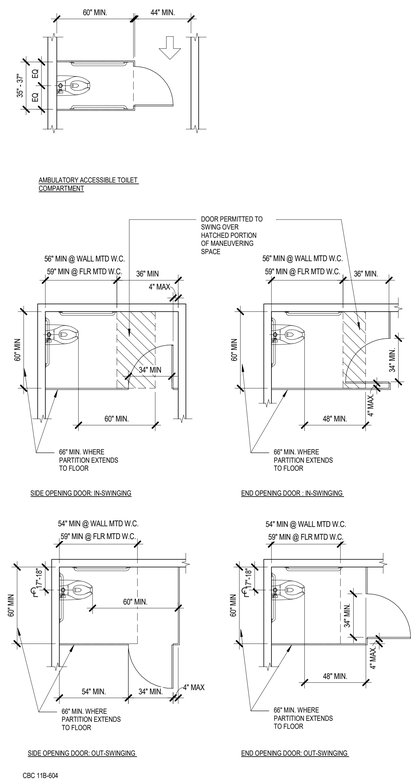
G1.11



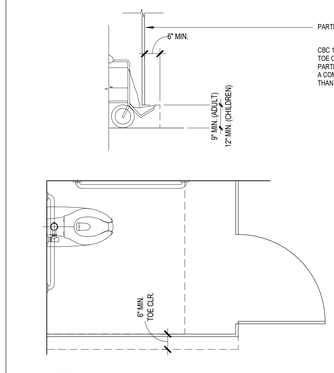
16 G1.12 SHOWER SEAT 1/2" = 1'-0"



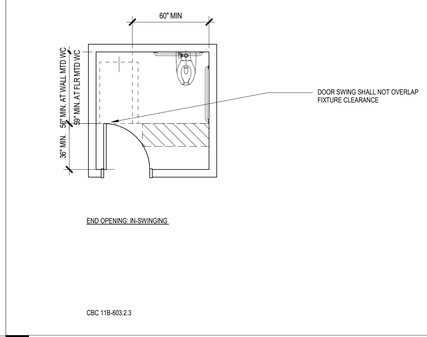
15 G1.12 SHOWER COMPARTMENT ALTERNATE ROLL-IN 1/4" = 1'-0"



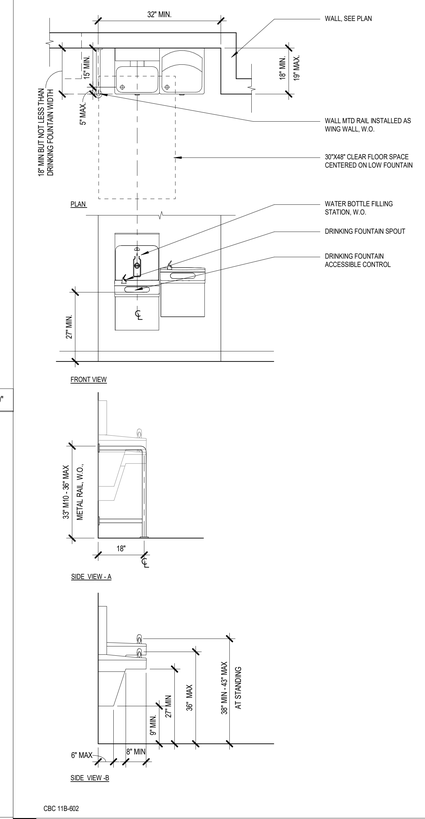
11 G1.12 MANEUVERING SPACE AT ACCESSIBLE TOILET COMPARTMENTS 1/4" = 1'-0"



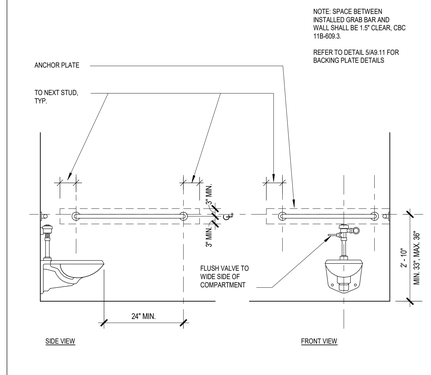
8 G1.12 WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT TOE CLEARANCE 1/2" = 1'-0"



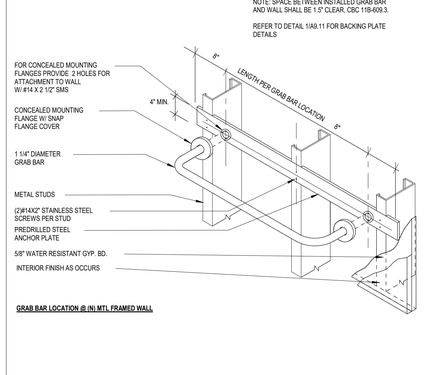
7 G1.12 MANEUVERING SPACE AT ACCESSIBLE SINGLE OCCUPANCY TOILET ROOM 1/4" = 1'-0"



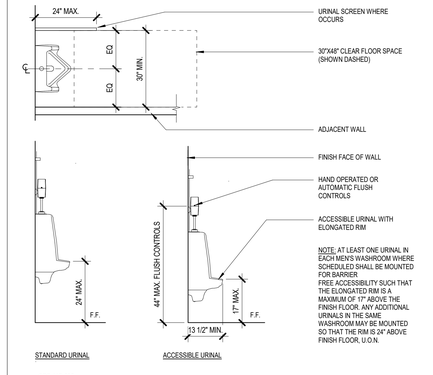
3 G1.12 DRINKING FOUNTAIN 1/2" = 1'-0"



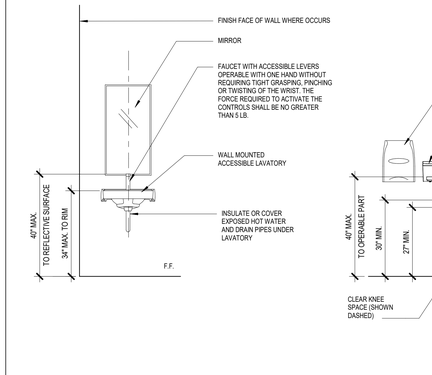
18 G1.12 GRAB BAR MOUNTING & BACKING PLATE 1/2" = 1'-0"



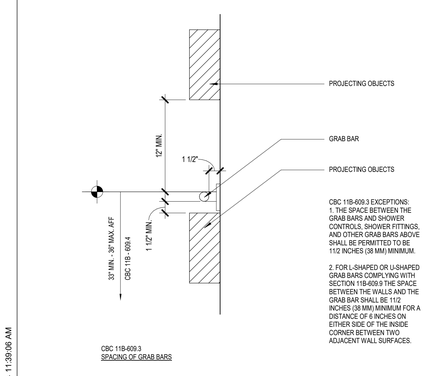
14 G1.12 GRAB BAR ANCHORAGE 3" = 1'-0"



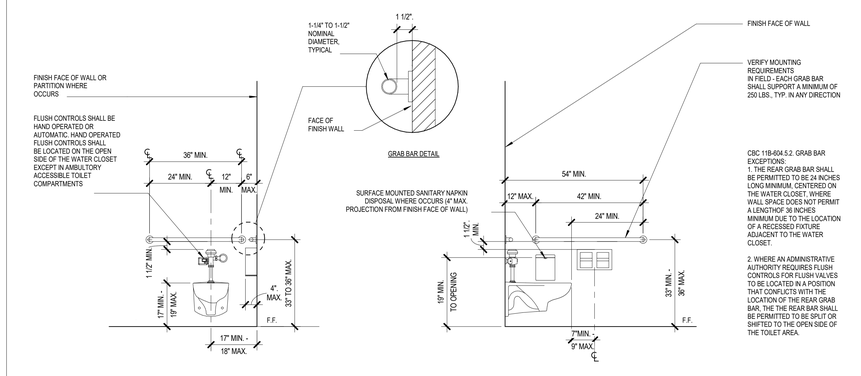
10 G1.12 ACCESSIBLE URINAL 1/2" = 1'-0"



6 G1.12 ACCESSIBLE WALL MOUNTED LAVATORY 1/2" = 1'-0"



17 G1.12 SPACING OF GRAB BAR 1 1/2" = 1'-0"



13 G1.12 ACCESSIBLE WATER CLOSET 1/2" = 1'-0"

1. DIMENSIONS THAT ARE NOT STATED AS "MAXIMUM -OR "MAX." OR "MINIMUM" OR "MIN." ARE ABSOLUTE (11019.4). ALL MAXIMUM, MINIMUM, AND ABSOLUTE DIMENSIONS FOR ACCESSIBILITY REQUIREMENTS ARE SUBJECT TO 1/4" ACCEPTABLE TOLERANCE EXCEPT WHERE THE REQUIREMENT IS STATED AS A RANGE WITH SPECIFIC MINIMUM AND MAXIMUM END POINTS. THERE ARE NO TOLERANCE OUTSIDE OF THE RANGE.

2. TOILET ROOMS ARE TO CONTAIN A 60" DIAMETER TURNING SPACE OF EQUIVALENT T-SHAPED SPACE COMPLYING WITH TITLE 24 11B - 304. THE MANEUVERING SPACES ARE PERMITTED TO UNDERLAP SOME OBJECTS. 11B-104.1 PERMITS 11B-306 TOE AND KNEE SPACE OF A CIRCULAR MANEUVERING SPACE OR, TOE AND KNEE SPACE AT ONLY ONE END OF EITHER THE BASE OR ONE ARE OF T-SHAPED SPACE. A DOOR IS PERMITTED TO OVERLAP A TOILET ROOM'S REQUIRED TURNING SPACE BY 12" MAX.

3. TOILET ROOMS ARE TO CONTAIN A CLEAR 45" PATH TO WHEELCHAIR AND ACCESSIBLE TOILET COMPARTMENTS, EXCEPT FOR INTERVENING DOOR WIDTHS. APPROACH FROM THE FRONT OF AN OUT-SWINGING WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT DOOR SHALL COMPLY WITH TITLE 24 11B-404.2.4.1.

4. RASH CAN IS NOT PERMITTED TO OCCUPY THE CLEAR FLOOR SPACE OF ANY FIXTURE OR DOOR.

5. DOORS ARE NOT PERMITTED TO ENCROACH ON THE REQUIRED CLEAR FLOOR SPACE AT ANY ACCESSIBLE FIXTURE. EXCEPTION: WHERE THE TOILET OR BATHING ROOM IS FOR INDIVIDUAL USE AND A 30" BY 48" CLEAR FLOOR SPACE COMPLYING WITH TITLE 24 11B-305.4 IS PROVIDED WITHIN THE ROOM BEYOND THE ARC OF THE DOOR SWING, DOORS SHALL BE PERMITTED TO SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE REQUIRED FOR ANY FIXTURE.

6. IHE CLEAR FLOOR AREAS OF ANY FIXTURE, ACCESSIBLE ROUTE AND MANEUVERING SPACE ARE PERMITTED TO OVERLAP.

7. AMBULATORY ACCESSIBLE STALL DOOR SHALL OPEN OUTWARD.

8. HEELCHAIR ACCESSIBLE TOILET COMPARTMENT DOOR SHALL OPEN OUTWARD AND BE PROVIDED WITH 19" STRIKE SIDE CLEARANCE. WHEN STRIKE SIDE CLEARANCE OPENS IN, THE STALL SHALL BE PROVIDED WITH A 61" BY 61" CLEAR FLOOR AREA IN FRONT OF TOILET. IN FRONT OPENING TOILETS, TOILET STALL DOOR SHALL BE ORIENTED DIAGONALLY OPPOSITE FROM TOILET FIXTURE. TOILET COMPARTMENT DOOR SHALL PROVIDE 32" MINIMUM CLEAR, UNLESS THE DOOR IS APPROACHED PARALLEL TO THE SURFACE FROM LATCH SIDE - THEN DOOR IS REQUIRED TO BE 34" CLEAR WHEN OPENED IN THE 90 DEGREE POSITION.

9. MOUNTING HEIGHT OF FIXTURES SHALL TAKE INTO ACCOUNT FLOOR SLOPE TO DRAIN.

10. LOOR SLOPE TO DRAIN SHALLNOT EXCEED 1.5% IN ANY DIRECTION.

11. FIXTURE AND TOILET COMPARTMENT CLEARANCES ARE TO FACE OF FINISH.

13. TOILET ROOM THRESHOLD SHALL NOT EXCEED 1/2" HEIGHT AND SHALL BE BEVELED 1:2 AT NOSINGS, ON EACH SIDE, OR BE 1/4" TALL EASED WITH EDGES.

14. NO ACCESSORIES ARE TO BE MOUNTED BEHIND GRAB BARS UNLESS THEY ARE COMPLETELY FLUSH TO ADJACENT SURFACE.

15. ACCESSIBLE ACCESSORIES SHALL BE LOCATED ON AN ACCESSIBLE ROUTE AND WITHIN ACCESSIBLE REACH RANGE PROVIDE CLEAR FLOOR SPACE THAT ALLOWS A FORWARD OR PARALLEL APPROACH BY A PERSON USING A WHEELCHAIR. ALL USER OPERABLE PARTS & CONTROLS SHALL BE LOCATED WITHIN 40" FROM THE FINISH FLOOR. CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 POUNDS (22.2 N) OF FORCE.

16. DOOR TO SINGLE USER ACCESSIBLE RESTROOM MUST BE PROVIDED WITH BY AN ACCESSIBLE PRIVACY LOCK.

GENERAL TOILET ROOM ACCESSIBILITY NOTES

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DATE: 2/19/2025

CHABOT COLLEGE

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2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

△	date	issue description

STATE OF CALIFORNIA
C-31415
RENEWAL DATE
OFFICE OF THE STATE ARCHITECT

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: DECEMBER 17, 2024

ACCESSIBILITY DETAILS

G1.12

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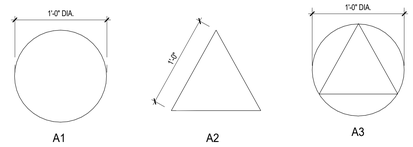
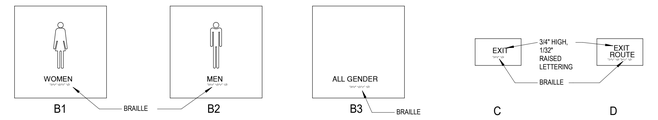
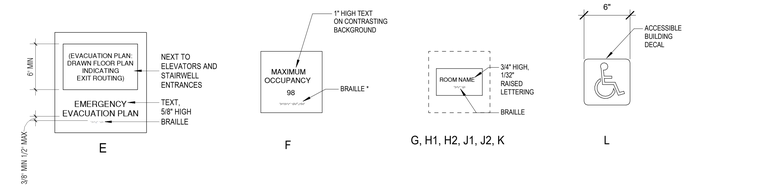
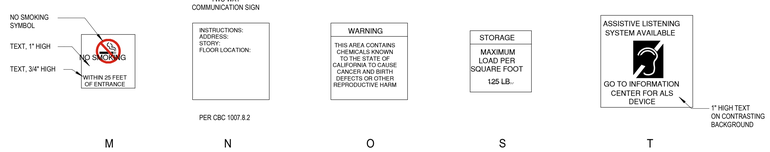


RESTROOM GEOMETRIC SIGNAGE

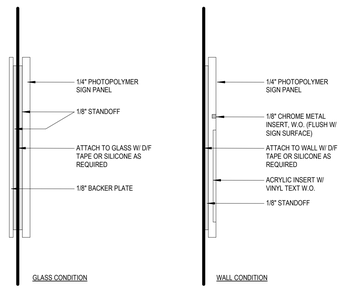


RESTROOM DOOR/WALL SIGNAGE





17 01.13 SIGNAGE TYPE — 1 1/2" = 1'-0"



NOT TO SCALE

5 01.13 SIGNAGE ATTACHEMENT — 3" = 1'-0"

1. DRAWINGS ON THIS SHEET SHOW TYPICAL AND REQUIRED LAYOUTS AND DIMENSIONS. ACTUAL PLANS AND ELEVATIONS IN SET MAY DIFFER, BUT SHOULD CONFORM TO REQUIREMENTS NOTED ON THIS SHEET AND IN THE CALIFORNIA BUILDING CODE CHAPTER **11B-7.3** .
2. SIGNAGE DESIGN SPECIFIC TO CAMPUS CRITERIA ON SHEETS **A10.23 & A10.24**

ACCESSIBILITY GENERAL NOTES

A. CHARACTER TYPE: RAISED CHARACTERS ON SIGNS SHALL BE RAISED 1/32" MINIMUM AND SHALL BE SANS SERIF UPPER CASE CHARACTERS DUPLICATED IN GRADE 2 BRAILLE COMPLYING WITH CBC 11B-703.3.

B. CHARACTER SIZE: RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8" AND A MAXIMUM OF 2" HIGH. VISUAL CHARACTERS PLACED ABOVE RAISED CHARACTER RANGES COMPLY WITH CBC TABLE 11B-703.5.5 BASED ON HEIGHT ABOVE FLOOR.

C. FINISH AND CONTRAST: CHARACTERS, SYMBOLS, AND THEIR BACKGROUNDS SHALL HAVE A NON-GLARE FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND, EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.

D. PROPORTIONS: VISUAL AND RAISED CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MIN AND 110% MAX OF THE HEIGHT OF THE UPPERCASE LETTER "I". STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15% MAX OF THE HEIGHT OF RAISED CHARACTERS. VISUAL CHARACTER STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 10% MIN AND 20% MAX OF THE HEIGHT OF THE CHARACTER.

E. LINE SPACING: CHARACTER SPACING BETWEEN THE BASELINES OF SEPARATE LINES SHALL BE 135% MIN AND 170% MAX OF THE CHARACTER HEIGHT.

F. BRAILLE: BRAILLE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH SECTIONS 11B-703.3 AND 11B-703.4 OF CBC. BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH TABLE 11B-703.3.1 OF CBC. THE INDICATION OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS AND ACRONYMS.

G. COMPLIANCE: ALL SIGNAGE MUST COMPLY WITH ARTICLE 11B-703 OF CBC AS WELL AS CURRENT ADA STANDARDS.

H. WHERE SIGNAGE MUST BE INSTALLED DIRECTLY TO GLAZING, PROVIDE BLANK SIGN ON OPPOSITE SIDE OF GLAZING.

SIGNAGE GENERAL NOTES

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2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

△	date	issue description

C-31415 — REGISTERED ARCHITECT — RENEWAL DATE — OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: DECEMBER 17, 2024

ACCESIBILITY DETAILS - SIGNAGE

G1.13

Attachment 1

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

Division of the State Architect – Structural Safety (DSA-SS)
(CCR, Title 24, Part 11)

CHAPTER 3 – GREEN BUILDING

SECTION 301 – GENERAL

301.4 Mandatory measures for public schools and community colleges. [DSA-SS] New building construction and site work on a new or existing site shall comply with Section 301.4.

301.4.1 Building and site construction on a new site shall comply with Chapter 5 as adopted by DSA-SS.

301.4.2 Work on an existing site shall comply with Section 301.4.2.

301.4.2.1 Newly constructed site work shall comply with Chapter 5 as adopted by DSA-SS.

301.4.2.2 Newly constructed buildings shall comply with Chapter 5 as adopted by DSA-SS and Section 301.4.3.

301.4.2.3 Additions to existing buildings shall comply with Section 301.4.3.

301.4.2.4 Rehabilitated landscape areas shall comply with Sections 5.304.6 and 5.106.12.

301.4.3 Minimum rehabilitated landscape area requirement. A minimum rehabilitated landscape area equal to 75 percent of the footprint area of the building shall comply with Section 5.304.6 and Section 106.12. New buildings or additions to existing buildings less than 1,600 square feet shall not be required to comply with Section 301.4.3.

CHAPTER 5 – NONRESIDENTIAL MANDATORY MEASURES

DIVISION 5.1 – PLANNING AND DESIGN

SECTION 5.106 – SITE DEVELOPMENT

5.106.4.2 Bicycle parking. [DSA-SS] For public schools and community colleges, comply with Sections 5.106.4.2.1 and 5.106.4.2.2.

☑ **5.106.4.2.1 Student bicycle parking.** Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building.

☑ **5.106.4.2.2 Staff bicycle parking.** Provide permanent secure bicycle parking conveniently accessed with a minimum of two staff bicycle parking spaces per new building. Acceptable parking facilities shall be convenient from the street or staff parking area and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

☑ **5.106.5.3 Electric vehicle (EV) charging. [N]** Construction shall comply with Section 5.106.5.3.1 or Section 5.106.5.3.2 to facilitate future installation of electric vehicle supply equipment (EVSE). When EVSE(s) is/are installed, it shall be in accordance with the

California Building Code, the *California Electrical Code* and as follows:

☐ **5.106.5.3.1 Single charging space requirements. [N]** When only a single charging space is required per Table 5.106.5.3.3, a raceway is required to be installed at the time of construction and shall be installed in accordance with the *California Electrical Code.* Construction plans and specifications shall include, but are not limited to, the following:

1. The type and location of the EVSE.
2. A listed raceway capable of accommodating a 208/240-volt dedicated branch circuit.
3. The raceway shall not be less than trade size 1 inch.
4. The raceway shall originate at a service panel or a subpanel serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and into a listed suitable cabinet, box, enclosure or equivalent.
5. The service panel or subpanel shall have sufficient capacity to accommodate a minimum 40-amprere dedicated branch circuit for the future installation of the EVSE.

☐ **5.106.5.3.2 Multiple charging space requirements. [N]** When multiple charging spaces are required per Table 5.106.5.3.3 raceway(s) is/are required to be installed at the time of construction and shall be installed in accordance with the *California Electrical Code.* Construction plans and specifications shall include, but are not limited to, the following:

1. The type and location of the EVSE.
2. The raceway(s) shall originate at a service panel or a subpanel(s) serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and into listed suitable cabinet(s), box(es), enclosure(s) or equivalent.
3. Plan design shall be based upon 40-amprere minimum branch circuits.
4. Electrical calculations shall substantiate the design of the electrical system, to include the rating of equipment and any on-site distribution transformers and have sufficient capacity to simultaneously charge all required EVs at its full rated amperage.
5. The service panel or subpanel(s) shall have sufficient capacity to accommodate the required number of dedicated branch circuit(s) for the future installation of the EVSE.

EV charging space calculation. [N] Table 5.106.5.3.3 shall be used to determine if single or multiple charging space requirements apply for the future installation of EVSE.

Exceptions: On a case-by-case basis where the local enforcing agency has determined EV charging and infrastructure is not feasible based upon one or more of the following conditions:

1. Where there is insufficient electrical supply.
2. Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.

TABLE 5.106.5.3.3

TOTAL NUMBER OF ACTUAL PARKING SPACES	NUMBER OF REQUIRED EV CHARGING SPACES
0 – 9	0
10 – 25	1
26 – 50	2
51 – 75	4
76 – 100	5
101 – 150	7
151 – 200	10
201 and over	6 percent of total [1]

1. Calculation for spaces shall be rounded up to the nearest whole number.

☑ **5.106.5.3.4 [N] Identification.** The service panel or subpanel(s) circuit directory shall identify the reserved overcurrent protective device space(s) for future EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE."

☑ **5.106.5.3.5 [N] Future charging spaces.** Future charging spaces qualify as designated parking as described in Section 5.106.5.2 Designated parking for clean air vehicles.

☑ **5.106.8 Light pollution reduction. [N]** Outdoor lighting systems shall be designed and installed to comply with the following:

1. The minimum requirements in the *California Energy Code* for Lighting Zones 0 to 4 as defined in Chapter 10, Section 10-114 of the *California Administrative Code,* and
2. Backlight, (B) ratings as defined in Illuminating Engineering Society of North America (IESNA) TM-15-11*(shown in TABLE A-1 in Chapter 8)*, and
3. Uplight and Glare ratings as defined in *California Energy Code* (shown in TABLES 130.2-A and 130.2-B in Chapter 8) and
4. Allowable Backlight, Uplight, and Glare (BUG) ratings not exceeding those shown in Table 5.106.8 [N], or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.

Exceptions: [N]

1. Luminaires that qualify as exceptions in Section 140.7 of the *California Energy Code.*
2. Emergency lighting.
3. Building facade meeting the requirements in Table 140.7-B of the *California Energy Code*, Part 6.
4. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8 Alternate materials, designs and methods of construction.

Notes:

1. **[N]** See also *California Building Code*, Chapter 12, Section 1205.7 for college campus lighting requirements for parking facilities and walkways.
2. Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for Illuminating Engineering Society Technical Memorandum TM-15-11 Table A-1, *California Energy Code* Tables 130.2-A and 130.2-B.
3. Refer to the California Energy Code for requirements for additions and alterations.

TABLE 5.106.8 [N]

MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT, AND GLARE (BUG) RATINGS
(See CALGreen for TABLE)

☑ **5.106.10 Grading and paving.** Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:

1. Swales.
2. Water collection and disposal systems.
3. French drains.
4. Water retention gardens.
5. Other water measures which keep surface water away from buildings and aid in groundwater recharge.

Exception: Additions and alterations not altering the drainage path.

☑ **5.106.12 Shade trees. [DSA-SS]** Shade trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2, and 5.106.12.3. Percentages shown shall be measured at noon on the summer solstice. Landscape irrigation necessary to establish and maintain tree health shall comply with Section 5.304.6.

☑ **5.106.12.1 Surface parking areas.** Shade tree plantings, minimum #10 container size or equal, shall be installed to provide shade over 50% of the parking area within 15 years.

Exception: The surface parking area covered by solar photovoltaic shade structures, or shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5, are not included in the total area calculation.

☑ **5.106.12.2 Landscape areas.** Shade trees plantings, minimum #10 container size or equal, shall be installed to provide shade over 20% of the landscape area within 15 years

Exception: Playfields for organized sport activity are not included in the total area calculation.

☑ **5.106.12.3 Hardscape areas.** Shade trees plantings, minimum #10 container size or equal, shall be installed to provide shade over 20% of the hardscape area within 15 years.

Exception: Walks, hardscape areas covered by solar photovoltaic shade structures, and hardscape areas covered by shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5, are not included in the total area calculation.

DIVISION 5.2 – ENERGY EFFICIENCY

SECTION 5.201 – GENERAL

☑ **5.201.1 California Energy Code.** For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory standards.

DIVISION 5.3 – WATER EFFICIENCY AND CONSERVATION

SECTION 5.303 – INDOOR WATER USE

5.303.3 Water conserving plumbing fixtures and fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:

☑ **5.303.3.1 Water closets.** The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specifications for Tank-Type Toilets.

Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.

5.303.3.2 Urinals.

☑ **5.303.3.2.1 Wall mounted urinals**. The effective flush volume of wall mounted urinals shall not exceed 0.125 gallons per flush.

☑ **5.303.3.2.2 Floor mounted urinals**. The effective flush volume of floor mounted or other urinals shall not exceed 0.5 gallons per flush.

5.303.3.3 Showerheads

☑ **5.303.3.3.1 Single showerhead.** Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specifications for showerheads.

☑ **5.303.3.3.2 Multiple showerheads serving one shower**. When a shower is served by more than one showerhead, the combined flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the showerhead shall be designed to allow only one shower outlet to be in operation at one time.

Note: A hand-held shower shall be considered a showerhead.

5.303.3.4 Faucets and fountains.

☑ **5.303.3.4.1 Non-residential lavatory faucets.** Non-residential lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi.

☑ **5.303.3.4.2 Kitchen faucets.** Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.

5.303.3.4.3 Wash fountains. Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute/20 [rim space (inches) at 60 psi].

☑ **5.303.3.4.4 Metering faucets.** Metering faucets shall not deliver more than 0.20 gallons per cycle.

☑ **5.303.3.4.5 Metering faucets for wash fountains.** Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per cycle/20 [rim space (inches) at 60 psi].

Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.

☑ **5.303.6 Standards for plumbing fixtures and fittings.** Plumbing fixtures and fittings shall be installed in accordance with the *California Plumbing Code*, and shall meet the applicable standards referenced in Table 1701.1 of the *California Plumbing Code* and in Chapter 6 of this code**.**

SECTION 5.304 – OUTDOOR WATER USE

5.304.6 Outdoor potable water use in landscape areas. For public schools and community colleges, landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, *California Code of Regulations*, except that the Evapotranspiration Adjustment Factor (ETAF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35.

Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWELO.

☑ **5.304.6.1 Newly constructed landscapes.** New construction projects with an aggregate landscape area equal to or greater than 500 square feet.

☑ **5.304.6.2 Rehabilitated landscapes.** Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet.

DIVISION 5.4 – MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

SECTION 5.407 – WATER RESISTANCE AND MOISTURE MANAGEMENT

☑ **5.407.1 Weather protection.** Provide a weather-resistant exterior wall and foundation envelope as required by *California Building Code,* Section 1402.2 (Weather Protection), manufacturer's installation instructions, or local ordinance, whichever is more stringent.

5.407.2 Moisture control. Employ moisture control measures by the following methods:

☑ **5.407.2.1 Sprinklers.** Design and maintain landscape irrigation systems to prevent spray on structures.

5.407.2.2 Entries and openings. Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows:

☑ **5.407.2.2.1 Exterior door protection.** Primary exterior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following:

1. An installed awning at least 4 feet in depth.
2. The door is protected by a roof overhang at least 4 feet in depth.
3. The door is recessed at least 4 feet.
4. Other methods which provide equivalent protection.

☑ **5.407.2.2.2 Flashing.** Installed flashings integrated with a drainage plane.

SECTION 5.408 – CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

5.408.1 Construction waste management. Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.

☑ **5.408.1.1 Construction waste management plan.** Where a local jurisdiction does not have a construction and demolition waste management ordinance that is more stringent, submit a construction waste management plan that:

1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale.

2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream).
3. Identifies diversion facilities where construction and demolition waste material collected will be taken.
4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

☑ **5.408.1.2 Waste management company.** Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section.

Note: The owner or contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company.

Exceptions to Sections 5.408.1.1 and 5.408.1.2:

1. Excavated soil and land-clearing debris.
2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist.
3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.

☑ **5.408.1.3 Waste stream reduction alternative.** The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65 percent minimum requirement as approved by the enforcing agency.

☑ **5.408.1.4 Documentation.** Documentation shall be provided to the enforcing agency which demonstrates compliance with Section 5.408.1.1 through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency.

Notes:

1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located at www.bsc.ca.gov/Home/CALGreen.aspx may be used to assist in documenting compliance with the waste management plan.
2. Mixed construction and demolition debris (C&D) processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

SECTION 5.410 – BUILDING MAINTENANCE AND OPERATION

☑ **5.410.1 Recycling by occupants.** Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive.

Exception: Rural jurisdictions that meet and apply for the exemption of Public Resources Code 42649.82 (a)(2)(A) et seq. will also be exempt from the organics waste portion of this section.

☑ **5.410.1.2 Sample ordinance.** Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the *Public Resources Code*. Chapter 18 is known as the California Solid Waste Reuse and Recycling Access Act of 1991 (Act).

Note: A sample ordinance for use by local agencies may be found in Appendix A of the document at the CalRecycle's website.

DIVISION 5.5 ENVIRONMENTAL QUALITY

SECTION 5.504.1 – POLLUTANT CONTROL

☑ **5.504.3 Covering of duct openings and protection of mechanical equipment during construction.** At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheet metal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.

5.504.4 Finish material pollutant control. Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.6.

☑ **5.504.4.1 Adhesives, sealants, and caulks.** Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards:

1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers, and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene, and trichloroethylene), except for aerosol products as specified in subsection 2, below.
2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of *California Code of Regulations*, Title 17, commencing with Section 94507.

TABLE 5.504.4.1 – ADHESIVE VOC LIMIT
(See CALGreen for TABLE)

TABLE 5.504.4.2 – SEALANT VOC LIMIT
(See CALGreen for TABLE)

☑ **5.504.4.3 Paints and coatings.** Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3, shall be determined by classifying the coating as a Flat, Nonflat, or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36 and 4.37 of the 2007 California Air Resources Board, Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply.

TABLE 5.504.4.3 – VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS
(See CALGreen for TABLE)

☑ **5.504.4.3.1 Aerosol paints and coatings.** Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) of *California Code of Regulations*, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.

5.504.4.3.2 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:

1. Manufacturer's product specification.

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-121159 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 2/19/2025

CHABOT COLLEGE

CLIENT
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HAYWARD, CA 94612

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2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

	date	issue description
2		

C-21415
RENEWAL DATE

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: DECEMBER 17, 2024

DSA CAL-GREEN CHECKLIST GL-4

G3.01

2. Field verification of on-site product containers.

☑ **5.504.4.4 Carpet systems.** All carpet installed in the building interior shall meet at least one of the following testing and product requirements:

1. Carpet and Rug Institute's Green Label Plus Program;
2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version1.1, February 2010 (also known as CDPH Standard Method V1.1 or *Specification 01350*);
3. NSF/ANSI 140 at the Gold level or higher;
4. Scientific Certifications Systems Sustainable Choice; or
5. Compliant with the Collaborative for High Performance Schools California (CA-CHPS) Criteria 2014 and listed in the CHPS High Performance Product Database.

☑ **5.504.4.4.1 Carpet cushion.** All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute's Green Label program.

☑ **5.504.4.4.2 Carpet adhesive.** All carpet adhesive shall meet the requirements of Table 5.504.4.1.

☑ **5.504.4.5 Composite wood products.** Hardwood plywood, particleboard, and medium density fiberboard composite wood products used on the interior or exterior of the building shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et seq.). Those materials not exempted by the ATCM must meet the specified emission limits as shown in Table 5.504.4.5.

TABLE 5.504.4.5 – FORMALDEHYDE LIMITS
(See CALGreen for TABLE)

☑ **5.504.4.6 Resilient flooring systems.** For 80 percent of floor area receiving resilient flooring, installed resilient flooring shall meet at least one of the following:

1. Certified under the Resilient Floor Covering Institute (RFCI) FloorScore program;
2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health's 2010 Standard Method for the Testing and Evaluation Chambers, Version 1.1, February 2010;
3. Compliant with the Collaborative for High Performance Schools California (CA-CHPS) Criteria 2014 and listed in the CHPS High Performance Product Database; or
4. Products certified under the UL GREENGUARD Gold (formerly the Greenguard Children & Schools program).

☑ **5.504.5.3 Filters.** In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air prior to occupancy that provides at least a Minimum Efficiency Reporting Value (MERV) of 13. MERV 13 filters shall be installed prior to occupancy and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

Exception: Existing mechanical equipment.

5.504.5.3.1 Labeling. Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.

SECTION 5.505 – INDOOR MOISTURE CONTROL

☑ **5.505.1 Indoor moisture control.** Buildings shall meet or exceed the provisions of *California Building Code*, CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures see Section 5.407.2 of this code.

SECTION 5.506 – INDOOR AIR QUALITY

☑ **5.506.1 Outside air delivery.** For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements for Ventilation) of the *California Energy Code*, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.

SECTION 5.507 – ENVIRONMENTAL COMFORT

☑ **5.507.4 Acoustical control.** Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E 90 and ASTM E 413 or Outdoor–Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E 1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.

Exception: Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings.

Exception: [DSA-SS] For public schools and community colleges, the requirement of this section and all subsections apply only to new construction.

☑ **5.507.4.1 Exteriors noise transmission, prescriptive method.** Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations:

1. Within the 65 CNEL noise contour of an airport.

   Exceptions:

   1. L_{dn} or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan.
   2. L_{dn} or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.
2. Within the 65 CNEL or L_{dn} noise contour of a freeway or expressway, railroad, industrial source or fixed-guideway source as determined by the Noise Element of the General Plan.

☑ **5.507.4.1.1 Noise exposure where noise contours are not readily available.** Buildings exposed to a noise level of 65 dBL_{eq}-1-hr during any hour of operation shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).

☑ **5.507.4.2 Performance method.** For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (L_{eq}-1Hr) of 50 dBA in occupied areas during any hour of operation.

☑ **5.507.4.2.1 Site features.** Exterior features such as sound wall or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.

☑ **5.507.4.2.2. Documentation of compliance.** An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.

☑ **5.507.4.3 Interior sound transmission.** Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.

Note: Examples of assemblies and their various STC rating may be found at the California Office of Noise Control: www. https://www.tsib.org/files/STC_IIC_Ratings.pdf

SECTION 5.508 – OUTDOOR AIR QUALITY

5.508.1 Ozone depletion and greenhouse gas reductions. Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.

☑ **5.508.1.1 Chlorofluorocarbons (CFCs).** Install HVAC, refrigeration and fire suppression equipment that do not contain CFCs.

A DSA Project Submittal Guideline is a compilation of recommendations based on code, referenced standards, DSA bulletin/policy/procedure/interpretation documents, and DSA practices. These guidelines are intended to give the design profession helpful information and insight into DSA's project application, submittal, and review processes. Guidelines are provided by DSA in support of DSA's goals of providing stakeholders information they need to facilitate working smoothly with DSA, and to help standardize practices among the four DSA Regional Offices.

Compliance with a Guideline does not assure that a project is complete or that it adheres to the requirements of the California Building Standards Code (Title 24 of the California Code of Regulations) or all DSA requirements. Additional information may be required, depending on project complexity or site conditions. For complete submittal requirements see forms *DSA 1: Application for Approval of Plans and Specifications* and *DSA 3: Project Submittal Checklist*.

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2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

	date	issue description
2		

REGISTERED ARCHITECT
C-31415
RENEWAL DATE
OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: DECEMBER 17, 2024

DSA CAL-GREEN CHECKLIST GL-4

G3.02

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD	NRCC-PRF-E
Nonresidential Performance Compliance Method	**(Page 1 of 26)**
Project Name: Chabot_v2	**Date Prepared:** 2023-07-13

A. General Information

1	Project Name	Chabot_v2			
2	Run Title				
3	Project Location	25555 Hesperian Blvd			
4	City	Hayward	5	Standards Version	Compliance 2022
6	Zip code	94545	7	Compliance Software (version)	CBECC 2022.2.1 (1288)
8	Climate Zone	3	9	Building Orientation (deg)	0
10	Building Type(s)	• Nonresidential	11	Weather File	HAYWARD_STYP20.epw
12	Project Scope	• New complete scope	13	Number of Dwelling Units	0
14	Total Conditioned Floor Area in Scope (ft²)	32291.8	15	Total # of hotel/motel rooms	0
16	Total Unconditioned Floor Area (ft²)	0	17	Fuel Type	Natural gas
18	Nonresidential Conditioned Floor Area	32291.8	19	Total # of Stories (Habitable Above Grade)	2
20	Residential Conditioned Floor Area	0			

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD	NRCC-PRF-E
Nonresidential Performance Compliance Method	**(Page 2 of 26)**

B. PROJECT SUMMARY

Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within the permit application.

Building Components Complying via Performance						Building Components Complying Prescriptively	
Envelope (See Table G)	Nonres	Performance	Solar Thermal Water Heating (See Table I3)	☐	Performance	The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).	
	MultiFam	Not Included		☒	Not Included		
Mechanical (See Table H)	Nonres	Performance	Covered Process: Commercial Kitchens (see Table J)	☐	Performance	Indoor Lighting (Unconditioned) 140.6 & 170.2(e)	NRCC-LTI-E is required
	MultiFam	Not Included		☒	Not Included	Outdoor Lighting 140.7 & 170.2(e)	NRCC-LTO-E is required
Domestic Hot Water (See Table I)	Nonres	Not Included	Covered Process: Laboratory Exhaust (see Table J)	☐	Performance	Sign Lighting 140.8 & 170.2(e)	NRCC-LTS-E is required
	MultiFam	Not Included		☒	Not Included	**Building Components Complying with Mandatory Measures**	
Lighting (Indoor Conditioned, see Table K)	Nonres	Performance	Photovoltaics (see Table F)	☒	Performance	Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)	
	MultiFam	Not Included		☐	Not Included	Electrical Power Distribution 110.11	NRCC-ELC-E is required
			Battery (see Table F)	☐	Performance	Commissioning 120.8	NRCC-CXR-E is required
				☒	Not Included	Solar and Battery 110.10	NRCC-SAB-E is required

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD	NRCC-PRF-E
Nonresidential Performance Compliance Method	**(Page 3 of 26)**

C1. COMPLIANCE SUMMARY

COMPLIES[3]

	Time Dependent Valuaton (TDV)		Source Energy Use
	Efficiency[1] (kBtu/ft² - yr)	**Total[2] (kBtu/ft² - yr)**	**Total[2] (kBtu/ft² - yr)**
Standard Design	241.37	241.37	40.87
Proposed Design	197.66	197.66	38.66
Compliance Margins	**43.71**	**43.71**	**2.21**
	Pass	**Pass**	**Pass**

[1] Efficiency measures include improvements like a better building envelope and more efficient equipment
[2] Compliance Totals include efficiency, photovoltaics and batteries
[3] Building complies when efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD	NRCC-PRF-E
Nonresidential Performance Compliance Method	**(Page 4 of 26)**

C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft² - yr)

COMPLIES[2]

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	77.3	85.08	-7.78
Space Cooling	42.48	28.64	13.84
Indoor Fans	79.44	42.18	37.26
Heat Rejection	0	0	0
Pumps & Misc.	0.86	0.47	0.39
Domestic Hot Water	2.47	2.47	0
Indoor Lighting	38.82	38.82	0
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**241.37**	**197.66**	**43.71 (18.1%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**241.37**	**197.66**	**43.71 (18.1%)**

[1] Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD	NRCC-PRF-E
Nonresidential Performance Compliance Method	**(Page 5 of 26)**

C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Receptacle	56.67	56.67	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**298.04**	**254.33**	**43.71 (14.7%)**

[1] Notes: This table is not used for Energy Code Compliance.

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD	NRCC-PRF-E
Nonresidential Performance Compliance Method	**(Page 6 of 26)**

C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kBtu/ft² /yr)

COMPLIES[2]

Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[1]
Space Heating	27.38	29.78	-2.4
Space Cooling	1.7	1.24	0.46
Indoor Fans	7.89	3.8	4.09
Heat Rejection	0	0	0
Pumps & Misc.	0.1	0.04	0.06
Domestic Hot Water	0.69	0.69	0
Indoor Lighting	3.11	3.11	0
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**40.87**	**38.66**	**2.21 (5.4%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**40.87**	**38.66**	**2.21 (5.4%)**

[1] Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD	NRCC-PRF-E
Nonresidential Performance Compliance Method	**(Page 7 of 26)**

C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[1]
Receptacle	4.53	4.53	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**45.4**	**43.19**	**2.21 (4.9%)**

[1] Notes: This table is not used for Energy Code Compliance.

C6. 'ABOVE CODE' QUALIFICATIONS

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD	NRCC-PRF-E
Nonresidential Performance Compliance Method	**(Page 8 of 26)**

C7. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	0.1	0.4	-0.3	949.1	1030.5	-81.4
Space Cooling	27.1	22.1	5	---	---	---
Indoor Fans	88.6	48.3	40.3	---	---	---
Heat Rejection	---	---	---	---	---	---
Pumps & Misc.	1.1	0.6	0.5	---	---	---
Domestic Hot Water	1	1	0	21.6	21.6	0
Indoor Lighting	48.8	48.8	0	---	---	---
Flexibility	---	---	---	---	---	---
EFFICIENCY TOTAL	**166.7**	**121.2**	**45.5**	**970.7**	**1052.1**	**-81.4**
Photovoltaics	---	---	---	---	---	---
Batteries	---	---	---	---	---	---
ENERGY USE SUBTOTAL	**166.7**	**121.2**	**45.5**	**970.7**	**1052.1**	**-81.4**
Receptacle	71.2	71.2	0	---	---	---
Process	---	---	---	---	---	---
Other Ltg	---	---	---	---	---	---
Process Motors	---	---	---	---	---	---
ENERGY USE TOTAL	**237.9**	**192.4**	**45.5**	**970.7**	**1052.1**	**-81.4**

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD	NRCC-PRF-E
Nonresidential Performance Compliance Method	**(Page 9 of 26)**

C8. ENERGY USE INTENSITY (EUI)

	Standard Design (kBtu/ft² / yr)	Proposed Design (kBtu/ft² / yr)	Margin (kBtu/ft² / yr)	Margin Percentage
GROSS EUI[1]	55.2	52.91	2.29	4.15
NET EUI[1]	55.2	52.91	2.29	4.15

[1] Notes: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area.

C9. UNMET LOAD HOURS

Thermal Zone Name	Cooling Unmet Load Hour Limit for Thermal Zone	Proposed Cooling Unmet Load Hours	Heating Unmet Load Hour Limit for Thermal Zone	Proposed Heating Unmet Load Hours
Zn Lounge2_F2	150	0	150	176.75
Zn GroundsShop_F1	150	0	150	1258

D1. EXCEPTIONAL CONDITIONS

• The building does not include service water heating. Verify that service water heating is not required and is not included in the design.
• The user model includes space(s) that are designed to be served by mechanical cooling systems, but the cooling systems were not included in the simulation model. A cooling system has been modeled for both the proposed and standard cases.
• The user model includes space(s) without sufficient cooling equipment. Cooling equipment has been added to the model to meet cooling loads.
• Project is claiming Exception 1 to Section 140.10(b): No battery storage system is required if the installed PV system size is less than 15 percent of the size determined by Equation 140.10-A.

F1. REQUIRED PV SYSTEMS

01	02	03	04	05	06	07	08	09	10	11	12
DC System Size (kWdc)	Exception[1]	Module Type	Array Type	Power Electronics	CFI	Azimuth (deg)	Tilt Input	Array Angle (deg)	Tilt: (x in 12)	Inverter Eff. (%)	Annual Solar Access (%)

[1]See Table D1 for any PV exceptions used.

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2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

△	date	issue description

REGISTERED ARCHITECT
C-31715
LICENSE RENEWAL DATE
OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: DECEMBER 17, 2024

TITLE 24 DOCUMENTATION

G3.11

F1B. PV BATTERY BUILDING TYPE(S)

01	02	03
Building Occupancy Type* (From Table 140.10-A/B and 170.2-U/V)	Conditioned Floor Area (ft²)	Unconditioned Floor Area (ft²)
Grocery	0	0
High-Rise Multifamily	0	0
Office, Financial Institutions, Unleased Tenant Space	1089.28	0
Retail	0	0
School	0	0
Warehouse	19103.7	0
Auditorium, Convention Center, Hotel/Motel, Library, Medical Office Building/Clinic, Restaurant, Theater	927.2	0
None	11171.7	0

Building Occupancy Types are defined in Section 100.1 of the Energy Code

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

01	02	03	04
Opaque Surfaces & Orientation	Total Gross Surface Area (ft²)	Total Fenestration Area (ft²)	Window to Wall Ratio (%)
North-Facing[1]	2824	96.81	3.43
East-Facing[2]	3260	238.97	7.33
South-Facing[3]	2824	0	0
West-Facing[4]	3260	0	0
Total	**12168**	**335.78**	**2.76**
Roof	21924.6	0	0

Notes
[1]*North-Facing is oriented to within 45 degrees of true north, including 45 00'00" east of north (NE), but excluding 45 00'00" west of north (NW),*
[2]*East-Facing is oriented to within 45 degrees of true east, including 45 00'00" south of east (SE), but excluding 45 00'00" north of east (NE),*
[3]*South-Facing is oriented to within 45 degrees of true south, including 45 00'00" west of south (SW), but excluding 45 00'00" east of south (SE),*
[4]*West-Facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW),*

G4. NONRESIDENTIAL AIR BARRIER

01	02
Building Story Name	Air Barrier
First Floor	No air barrier
Second Floor	No air barrier

G5. OPAQUE SURFACE ASSEMBLY SUMMARY

01	02	03	04	05	06		07	08	09	10
Surface Name	Construction Type	Area (ft²)	Framing Type	Cavity R-Value	Continuous R-Value		Units	Value	Description of Assembly Layers	Status[1]
					Interior	Exterior				
Slab On Grade	Underground Floor	641.76	N/A	0	N/A	1.54	F-factor	0.73	Slab Type =Unheated slab on grade Insulation Orientation =None Insulation R-Value =none	N
Internal Ceiling/Floor	Interior Floor	10,501.1	N/A	0	N/A	N/A	U-factor	0.2985	Gypsum Board - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Gypsum Board - 1/2 in.	N
Metal Wall	Exterior Wall	12,168	N/A	13	N/A	N/A	U-factor	0.1075	Wall Insulation Gypsum Board - 1/2 in.	N
Internal Partition	Interior Wall	19,512	N/A	0	N/A	N/A	U-factor	0.3226	Gypsum Board - 1/2 in. Air - Wall - 3/4 in. Gypsum Board - 1/2 in.	N
Metal Roof	Roof	21,924.6	N/A	29	N/A	N/A	U-factor	0.041	Metal Standing Seam - 1/16 in. Roof Insulation	N
Slab On Grade 2	Underground Floor	21,282.9	N/A	0	N/A	N/A	F-factor	0.73	Slab Type =Unheated slab on grade Insulation Orientation =None Insulation R-Value =none	N

[1] *Status: N - New, A - Altered, E - Existing*

G6A. OPAQUE DOOR SUMMARY (NONRESIDENTIAL)

01	02	03	04
Assembly Name	Area (ft²)	Overall U-factor	Status[1]
ExtDoorU070	157.48	0.7017	N

[1] *Status: N - New, A - Altered, E - Existing*

G7A. FENESTRATION ASSEMBLY SUMMARY (NONRESIDENTIAL)

01	02	03	04	05	06	07	08	09
Fenestration Assembly Name	Fenestration Type/ Product Type / Frame Type	Certification Method[1]	Assembly Method	Area (ft²)	Overall U-factor	Overall SHGC	Overall VT	Status[2]
Fixed Window	Vertical fenestration Fixed window N/A	NFRC	Manufactured	335.78	0.46	0.27	0.71	N

[1] *Notes: Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.*
[2] *Status: N - New, A - Altered, E - Existing*

H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)

01	02	03	04	05	06	07	08	09	10	11	12
Equipment Name	Equipment Type	Qty	Heating				Cooling			Economizer Type (if present)	Status[1]
			Total Heating Output (kBtu/h)	Supp Heat Output (kBtu/h)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency		
HV-1	Heating Ventilation Air System	1	47.7	0	N/A	NA - See Boiler	0	N/A	NA	No Economizer	N

[1] *Status: N - New, A - Altered, E - Existing*

H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)

01	02	03	04	05	06	07	08	09	10	11	12
Equipment Name	Equipment Type	Qty	Heating				Cooling			Economizer Type (if present)	Status[1]
			Total Heating Output (kBtu/h)	Supp Heat Output (kBtu/h)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency		
HV-2	Heating Ventilation Air System	1	78.1	0	N/A	NA - See Boiler	0	N/A	NA	No Economizer	N
AHU-1	Package VAV Air System	1	58	0	N/A	NA - See Boiler	293	N/A	NA - See Chiller	No Economizer	N
UH-1	Single Zone Air Conditioner	1	79.2	0	N/A	NA - See Boiler	79.2	EER	11	N/A	N
UH-2	Single Zone Air Conditioner	1	39.6	0	N/A	NA - See Boiler	39.6	EER SEER	12.2 15	N/A	N
UH-4	Single Zone Air Conditioner	1	68.3	0	N/A	NA - See Boiler	68.3	EER	11.7	N/A	N
UH-6	Single Zone Air Conditioner	1	167.4	0	N/A	NA - See Boiler	130	EER	11	N/A	N
UH-3	Single Zone Air Conditioner	1	45.4	0	N/A	NA - See Boiler	45.4	EER SEER	11.7 15	N/A	N
FC-1	Single Zone Heat Pump	1	8.8	0	N/A	NA	8.8	EER SEER	12.2 15	N/A	N
FC-2	Single Zone Heat Pump	1	8.8	0	N/A	NA	8.8	EER SEER	12.2 15	N/A	N
FC-3	Single Zone Heat Pump	1	48	0	N/A	NA	48	EER SEER	12.2 15	N/A	N
FC-4	Single Zone Heat Pump	1	30	0	N/A	NA	30	EER SEER	12.2 15	N/A	N

[1] *Status: N - New, A - Altered, E - Existing*

H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)

01	02	03	04	05	06	07	08	09	10	11	12
Equipment Name	Equipment Type	Qty	Heating				Cooling			Economizer Type (if present)	Status[1]
			Total Heating Output (kBtu/h)	Supp Heat Output (kBtu/h)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency		
FC-5	Single Zone Heat Pump	1	24	0	N/A	NA	24	EER SEER	12.2 15	N/A	N
UH-5/7	Single Zone Air Conditioner	1	45.4	0	N/A	NA - See Boiler	45.4	EER SEER	11.7 15	N/A	N

[1] *Status: N - New, A - Altered, E - Existing*

H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12	13
Name or Item Tag	Qty	Design OA CFM	Supply Fan				Return / Relief Fan					Status[1]
			CFM	Power	Power Units	Control	Fan Type	CFM	Power	Power Units	Control	
HV-1	1	0	710	8.28	InH2O	VSD	N/A	N/A	N/A	N/A	N/A	N
HV-2	1	290.33	1,300	4.52	InH2O	VSD	N/A	N/A	N/A	N/A	N/A	N
AHU-1	1	2514.91	3,500	4.9	InH2O	VSD	N/A	N/A	N/A	N/A	N/A	N
UH-1	1	0	1,980	0.5	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
UH-2	1	0	990	0.5	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
UH-4	1	0	1,530	0.5	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
UH-6	1	0	3,580	0.5	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
UH-3	1	0	1,190	0.5	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
FC-1	1	0	330	0.5	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
FC-2	1	35.78	330	0.5	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
FC-3	1	71.04	1,830	0.5	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
FC-4	1	35.62	700	0.5	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
FC-5	1	9.38	688	0.7	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
Carpentry Shop Exhaust	1	0	849.92	3.46	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
Custodial Exhaust	1	0	736.56	3.99	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
Storage Exhaust	1	0	4,514.4	0.65	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
Vehicle Maint Exhaust	1	0	4,256	0.69	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
Grounds Shop Exhaust	1	0	1,945.6	1.51	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
Storage 2 Exhaust	1	0	1,797.12	1.64	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
HVAC Shop Exhaust	1	0	936.96	3.14	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
Elec Shop Exhaust	1	0	641.76	4.58	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
Warehouse Exhaust	1	0	5,428.08	0.54	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N

[1] *Status: N - New, A - Altered, E - Existing*

H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12	13
Name or Item Tag	Qty	Design OA CFM	Supply Fan				Return / Relief Fan					Status[1]
			CFM	Power	Power Units	Control	Fan Type	CFM	Power	Power Units	Control	
UH-5/7	1	0	1,190	0.5	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N

[1] *Status: N - New, A - Altered, E - Existing*

H5. GENERAL EXHAUST FAN SUMMARY

01	02	03	04	05	06	07	08
System ID	Zone Name	Qty	CFM	Power	Power Units	Continuous Operation?	Status[1]
Carpentry Shop Exhaust	Zn CarprentryShop_F1	1	849.92	3.46	InH2O	No	N
Custodial Exhaust	Zn Custodial_F1	1	736.56	3.99	InH2O	No	N
Storage Exhaust	Zn Storage1_F1	1	4514.4	0.65	InH2O	No	N
Vehicle Maint Exhaust	Zn VehicleMaintShop_F1	1	4256	0.69	InH2O	No	N
Grounds Shop Exhaust	Zn GroundsShop_F1	1	1945.6	1.51	InH2O	No	N
Storage 2 Exhaust	Zn Storage2_F1	1	1797.12	1.64	InH2O	No	N
HVAC Shop Exhaust	Zn HVACShop_F1	1	936.96	3.14	InH2O	No	N
Elec Shop Exhaust	Zn ElecShop_F1	1	641.76	4.58	InH2O	No	N
Restroom Exhaust	Zn Corridor1_F2 Zn DirectorOffice_F2 Zn Lounge_F2 Zn SecureWH_F1	1	649.6	4.52	InH2O	No	N
Warehouse Exhaust	Zn Warehouse_F1	1	5428.08	0.54	InH2O	No	N

[1] *Status: N - New, A - Altered, E - Existing*

H6. WET SYSTEM EQUIPMENT (boilers, chillers, cooling towers, etc.)

01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Equipment Type	Parent Fluid System Name	Qty	Vol (gal)	Rated Capacity	Capacity Unit	Rating	Rating Unit	Status[1]
Boiler 1	Hot Water	Campus HWL	1	N/A	750	kBtu/Hr	0.84	TE	N
Chiller 1	Screw	Campus CWL	1	N/A	1,000	kBtu/Hr	17	EER	N

[1] *Status: N - New, A - Altered, E - Existing*

H7. PUMPS

01	02	03	04	05	06	07	08
Name or Item Tag	Parent Equipment	Qty	Power	Power Units	GPM	VSD	Status[1]
Pump 1	Boiler 1	1	5	BHP	200	☒	N
Pump 2	Chiller 1	1	5	BHP	200	☒	N

[1] *Status: N - New, A - Altered, E - Existing*

H8. SYSTEM SPECIAL FEATURES

01	02	03	04
System Name	Equipment Type	Interlocks per 140.4(n)[1]	Other Special Features and Controls
HV-1	Heating Ventilation Air System	N/A	DDC Controls
HV-2	Heating Ventilation Air System	N/A	DDC Controls
AHU-1	Package VAV Air System	No	DDC Controls Dual Maximum Reheat Controls Warmest Zone Supply Air Temp. Reset
Campus HWL	Hot Water System	N/A	DDC Controls Fixed Temperature Control

Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.

[1] *Yes = interlocks are provided, No = interlocks are not provided, NA means no operable openings.*

H8. SYSTEM SPECIAL FEATURES

01	02	03	04
System Name	Equipment Type	Interlocks per 140.4(n)[1]	Other Special Features and Controls
Campus CWL	Chilled Water System	N/A	DDC Controls Fixed Temperature Control

Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.

[1] *Yes = interlocks are provided, No = interlocks are not provided, NA means no operable openings.*

H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION

01	02	03	04	05	06	07
Zone Name	Mechanical Ventilation				Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# of People	Supply OA CFM	Exhaust CFM		
Zn Corridor1_F2	Exhaust - Toilets, public Exhaust - Locker rooms for athletic or industrial facilities Misc - Warehouses General - Corridors NA	19.38	528.22	431.04	4680.48	N/A
Zn Lounge3_F2	Office - Reception areas	27.22	408.26	0	816.48	N/A
Zn DirectorOffice_F2	Exhaust - Locker rooms for athletic or industrial facilities Office - Office space	3.31	28.22	118.56	425.28	N/A
Zn Elec_F2	Misc - Telephone closets	0.09	9.38	0	62.56	N/A
Zn Lounge2_F2	General - Corridors Office - Reception areas	53.49	821.91	0	1826.08	N/A
Zn MtgRm2_F2	General - Conference/meeting	14.64	219.6	0	439.2	N/A
Zn IDF_F2	Misc - All others	0.36	35.62	0	237.44	N/A
Zn Locksmith_F2	Misc - Telephone closets	0.5	49.61	0	330.72	N/A

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DATE: 2/19/2025

CHABOT COLLEGE

CLIENT
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2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

#	date	issue description

REGISTERED PROFESSIONAL ENGINEER
C-61 / D-15
CIVIL
STATE OF CALIFORNIA
EXPIRATION DATE

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: DECEMBER 17, 2024

TITLE 24 DOCUMENTATION

G3.12

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 19 of 26)**

H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION

01	02	03	04	05	06	07
Zone Name	Mechanical Ventilation				Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# of People	Supply OA CFM	Exhaust CFM		
Zn MtgRm1_F2	General - Conference/meeting	16.27	244	0	488	N/A
Zn Office5_F2	Office - Office space	0.67	20.09	0	133.92	N/A
Zn Office3_F2	Office - Office space	1.73	51.84	0	345.6	N/A
Zn Office1_F2	Office - Office space	2.11	63.24	0	421.6	N/A
Zn Lounge_F2	Office - Reception areas	5.33	79.92	0	159.84	N/A
Zn Warehouse_F1	Exhaust - Storage rooms, chemical	3.62	0	5428.08	3618.72	N/A
Zn SecureWH_F1	Exhaust - Toilets, public Misc - Warehouses	0.57	35.78	100	305.76	N/A
Zn Corridor_F1	Misc - Telephone closets General - Corridors NA	9.18	290.33	0	2069.44	N/A
Zn ElecShop_F1	Exhaust - Janitor closets, trash rooms, recycling	3.21	0	641.76	641.76	N/A
Zn HVACShop_F1	Exhaust - Janitor closets, trash rooms, recycling	4.68	0	936.96	936.96	N/A
Zn Storage2_F1	Exhaust - Storage rooms, chemical	1.2	0	1797.12	1198.08	N/A
Zn GroundsShop_F1	Exhaust - Janitor closets, trash rooms, recycling	9.73	0	1945.6	1945.6	N/A
Zn VehicleMaintShop_F1	Exhaust - Janitor closets, trash rooms, recycling	21.28	0	4256	4256	N/A
Zn Storage1_F1	Exhaust - Storage rooms, chemical	3.01	0	4514.4	3009.6	N/A
Zn Custodial_F1	Exhaust - Woodwork shop/classrooms	7.37	0	736.56	1473.12	N/A

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 20 of 26)**

H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION

01	02	03	04	05	06	07
Zone Name	Mechanical Ventilation				Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# of People	Supply OA CFM	Exhaust CFM		
Zn CarprentryShop_F1	Exhaust - Woodwork shop/classrooms Exhaust - Paint spray booths	9.59	0	849.92	1918.24	N/A
Zn Elec_F1	Misc - Telephone closets	0.71	71.04	0	473.6	N/A
Zn ElevMchRm_F1	Exhaust - Refrigerating machinery rooms	0.12	0	0	77.76	N/A

H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12
System ID	System Type	Qty	Rated Capacity (kBtuh)		Airflow (cfm)			Fan			VSD
			Heating	Cooling	Design	Min.	Min. Ratio	Power	Power Units	Cycles	
TerminalUnit 1	Uncontrolled	1	N/A	N/A	550	N/A	0	N/A	N/A	N/A	☐
TerminalUnit 4	Uncontrolled	1	N/A	N/A	550	N/A	0	N/A	N/A	N/A	☐
TerminalUnit 2	Uncontrolled	1	N/A	N/A	900	N/A	0	N/A	N/A	N/A	☐
TerminalUnit 5	Uncontrolled	1	N/A	N/A	900	N/A	0	N/A	N/A	N/A	☐
VAV-11	Variable Air Volume Reheat Box	1	4.5	N/A	240	80	0.33	N/A	N/A	N/A	☐
VAV-5/12	Variable Air Volume Reheat Box	1	7.5	N/A	1,770	530	0.3	N/A	N/A	N/A	☐
VAV-4	Variable Air Volume Reheat Box	1	4.5	N/A	430	410	0.95	N/A	N/A	N/A	☐
VAV-6	Variable Air Volume Reheat Box	1	4.5	N/A	280	30	0.11	N/A	N/A	N/A	☐
VAV-1	Variable Air Volume Reheat Box	1	10	N/A	2,400	785	0.33	N/A	N/A	N/A	☐

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 21 of 26)**

H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12
System ID	System Type	Qty	Rated Capacity (kBtuh)		Airflow (cfm)			Fan			VSD
			Heating	Cooling	Design	Min.	Min. Ratio	Power	Power Units	Cycles	
VAV-2	Variable Air Volume Reheat Box	1	4.5	N/A	530	220	0.42	N/A	N/A	N/A	☐
VAV-3	Variable Air Volume Reheat Box	1	4.5	N/A	200	50	0.25	N/A	N/A	N/A	☐
VAV-7	Variable Air Volume Reheat Box	1	4.5	N/A	600	245	0.41	N/A	N/A	N/A	☐
VAV-8	Variable Air Volume Reheat Box	1	4.5	N/A	300	20	0.07	N/A	N/A	N/A	☐
VAV-9	Variable Air Volume Reheat Box	1	4.5	N/A	350	55	0.16	N/A	N/A	N/A	☐
VAV-10	Variable Air Volume Reheat Box	1	4.5	N/A	270	65	0.24	N/A	N/A	N/A	☐
UH-1	Single Zone Air Conditioner	1	79.2	79.2	1,980	N/A	N/A	0.5	InH2O	Cycling	☐
UH-2	Single Zone Air Conditioner	1	39.6	39.6	990	N/A	N/A	0.5	InH2O	Cycling	☐
UH-4	Single Zone Air Conditioner	1	68.3	68.3	1,530	N/A	N/A	0.5	InH2O	Cycling	☐
UH-6	Single Zone Air Conditioner	1	167.4	130	3,580	N/A	N/A	0.5	InH2O	Cycling	☐
UH-3	Single Zone Air Conditioner	1	45.4	45.4	1,190	N/A	N/A	0.5	InH2O	Cycling	☐
FC-1	Single Zone Heat Pump	1	8.8	8.8	330	N/A	N/A	0.5	InH2O	Continuous	☐
FC-2	Single Zone Heat Pump	1	8.8	8.8	330	N/A	N/A	0.5	InH2O	Continuous	☐
FC-3	Single Zone Heat Pump	1	48	48	1,830	N/A	N/A	0.5	InH2O	Continuous	☐
FC-4	Single Zone Heat Pump	1	30	30	700	N/A	N/A	0.5	InH2O	Continuous	☐
FC-5	Single Zone Heat Pump	1	24	24	688	N/A	N/A	0.7	InH2O	Continuous	☐
UH-5/7	Single Zone Air Conditioner	1	45.4	45.4	1,190	N/A	N/A	0.5	InH2O	Cycling	☐

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 22 of 26)**

K1. INDOOR CONDITIONED LIGHTING GENERAL INFO

01	02	03	04	05	06
Occupancy Type[1]	Conditioned Floor Area[2] (ft^2)	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Additional (Custom) Allowance	
				Area Category Footnotes (Watts)	Area Category Footnotes (Watts)
Convention, Conference, Multipurpose and Meeting Center	927.2	695.4	0	0	0
Corridor	2706.24	1082.5	0	0	0
Electrical Mechanical Telephone Room	1324.16	529.66	0	0	0
Locker/Dressing Room	499.2	224.64	0	0	0
Lounge	2541.92	1398.06	0	0	0
General Commercial Industrial Work AreaLow Bay	11171.7	6703.01	0	0	0
Office (250 square feet)	283.36	170.02	0	0	0
Office (250 square feet)	805.92	523.85	0	0	0
Restroom	886.4	576.16	0	0	0
Stairwell	1634.24	980.54	0	0	0
Commercial Industrial Warehouse	9299.84	3719.94	0	0	0
Unoccupied Include In Gross Floor Area	211.68	0	0	0	0
Building Totals:	**32291.8**	**16603.8**	**0**	**0**	**0**

[1] *See Table 140.6-C*
[2] *See NRCC-LTI–E for unconditioned spaces*
[3] *Lighting information for existing spaces modeled is not included in this table*

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 23 of 26)**

K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROL

See NRCC-LTI-E for mandatory controls

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

Building Component	Form/Title
Envelope	NRCI-ENV-E - Envelope (for all buildings)
Mechanical	NRCI-MCH-E - For all buildings with Mechanical Systems
Indoor Lighting	NRCI-LTI-E - Indoor Lighting (for all buildings)

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).

Building Component	Form/Title
Envelope	NRCA-ENV-02-F - NRFC label verification for fenestration
Indoor Lighting	NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls.
Indoor Lighting	NRCA-LTI-03-A - Automatic Daylight Controls.
Indoor Lighting	NRCA-LTI-04-A - Demand Responsive Lighting Controls.
Mechanical	NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap
Mechanical	NRCA-MCH-03-A - Constant Volume Single Zone HVAC
Mechanical	NRCA-MCH-07-A Supply Fan Variable Flow Controls
Mechanical	NRCA-MCH-08-A Valve Leakage Test
Mechanical	NRCA-MCH-11-A Automatic Demand Shed Controls
Mechanical	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance
Mechanical	NRCA-MCH-16-A Supply Air Temperature Reset Controls
Mechanical	NRCA-MCH-18-A Energy Management Control Systems

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 24 of 26)**

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

Building Component	Form/Title
Mechanical	NRCV-MCH-27 Indoor Air Quality & Mechanical Ventilation
Mechanical	NRCV-MCH-32 Local Mechanical Exhaust

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 25 of 26)**

Documentation Author's Declaration Statement

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Angelique Fathy	Documentation Author Signature:
Company: Interface Engineering	Signature Date: 07/13/2023
Address: 49 Stevenson Street, Suite 660	CEA/HERS Certification Identification (if applicable): -specify-
City/State/Zip: San Francisco, CA 94105	Phone: -specify-

Responsible Person's Declaration statement

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I understand that a registered copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections, and I will take the necessary steps to accomplish this requirement.
6. I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy, and I will take the necessary steps to accomplish these requirements.

Responsible Designer Name: -specify-	Responsible Designer Signature:	
Company: -specify-		
Address: -specify-	Date Signed:	
City/State/Zip: -specify-, CA 0	License #: -specify-	
Phone: -specify-	Title:	Scope:
Responsible Designer Name: -specify-	Responsible Designer Signature:	
Company: -specify-		
Address: -specify-	Date Signed:	
City/State/Zip: -specify-, CA 0	License #: -specify-	
Phone: -specify-	Title:	Scope:

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**

Nonresidential Performance Compliance Method — **(Page 26 of 26)**

Responsible Designer Name: -specify-	Responsible Designer Signature:	
Company: -specify-		
Address: -specify-	Date Signed:	
City/State/Zip: -specify-, CA 0	License #: -specify-	
Phone: -specify-	Title:	Scope:

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2	2024.12.17	DSA PC2
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	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

	date	issue description
2		

STATE OF CALIFORNIA — ARCHITECT — C-31715 — RENEWAL DATE — REGISTERED PROFESSIONAL

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: DECEMBER 17, 2024

TITLE 24 DOCUMENTATION

G3.13

Chabot M&O | LEEDv4 NC Scorecard

STŌK

	Yes	Y?	?	No	Phase	Credit Name	Points Available	CALGreen Overlap
1	20	29	18	45		Chabot M&O	110	
2						Certification Level Status (Confirmed + Likely) = 49 Points	Certified	
3						INTEGRATIVE PROCESS		
4	1			0	D	IPc1 - Integrative Process	1	
5	1			0		Totals	1	
6						LOCATION & TRANSPORTATION		
7				16	D	LTc1 - LEED for Neighborhood Development Location	16	
8		1		0	D	LTc2 - Sensitive Land Protection	1	
9	1			1	D	LTc3 - High Priority Site	2	
10	2			3	D	LTc4 - Surrounding Density & Diverse Uses	5	
11	1			4	D	LTc5 - Access to Quality Transit (v4.1)	5	
12	1			0	D	LTc6 - Bicycle Facilities (v4.1)	1	
13				1	D	LTc7 - Reduced Parking Footprint (v4.1)	1	
14				1		LTc8 - Electric Vehicles (v4.1)	1	
15	5	1		10		Totals	16	
16						SUSTAINABLE SITES		
17					C	SSp1 - Construction Activity Pollution Prevention	Required	●
18	1			0	D	SSc1 - Site Assessment	1	
19		2		0	D	SSc2 - Protect or Restore Habitat (v4.1)	2	
20	1			0	D	SSc3 - Open Space (v4.1)	1	
21		1	2	0	D	SSc4 - Rainwater Management (v4.1)	3	
22	2			0	D	SSc5 - Heat Island Reduction (v4.1)	2	
23		1		0	D	SSc6 - Light Pollution Reduction	1	
24	4	4	2			Totals	10	
25						WATER EFFICIENCY		
26					D	WEp1 - Outdoor Water Use Reduction	Required	●
27					D	WEp2 - Indoor Water Use Reduction	Required	●
28					D	WEp3 - Building-Level Water Metering	Required	●
29	2			0	D	WEc1 - Outdoor Water Use Reduction	2	●
30		5		1	D	WEc2 - Indoor Water Use Reduction	6	●
31	1			1	D	WEc3 - Optimize Process Water Use (v4.1)	2	
32		1		0	D	WEc4 - Water Metering	1	
33	3	6		2		Totals	11	

	Yes	Y?	?	No	Phase	Credit Name	Points Available	CALGreen Overlap
34						ENERGY & ATMOSPHERE		
35					C	EAp1 - Fundamental Commissioning & Verification	Required	●
36					D	EAp2 - Minimum Energy Performance	Required	●
37					D	EAp3 - Building-Level Energy Metering	Required	●
38					D	EAp3 - Fundamental Refrigerant Management	Required	●
39				6	C	EAc1 - Enhanced Commissioning	6	
40		5		13	D	EAc2 - Optimize Energy Performance	18	●
41			1	0	D	EAc3 - Advanced Energy Metering	1	
42			2	3	D	EAc4 - Renewable Energy (v4.1)	5	
43			1	0	D	EAc5 - Enhanced Refrigerant Management	1	
44			2	0	C	EAc6 - Grid Harmonization (v4.1)	2	
45		5	6	22		Totals	33	
46						MATERIALS & RESOURCES		
47					D	MRp1 - Storage & Collection of Recyclables	Required	●
48					D	MRp2 - Construction & Demolition Waste Management Planning	Required	●
49			2	3	D	MRc1 - Building Life-Cycle Impact Reduction (v4.1)	5	
50		1	1	0	C	MRc2 - Environmental Product Declarations (v4.1)	2	
51		1		1	C	MRc4 - Sourcing of Raw Materials (v4.1)	2	
52		1	1	0	C	MRc5 - Material Ingredients (v4.1)	2	
53		1	1	0	C	MRc6 - C&D Waste Management	2	●
54		4	5	4		Totals	13	
55						INDOOR ENVIRONMENTAL QUALITY		
56					D	IEQp1 - Minimum Indoor Air Quality Performance	Required	●
57					D	IEQp2 - Environmental Tobacco Smoke Control	Required	●
58		1		1	D	IEQc1 - Enhanced Indoor Air Quality Strategies	2	
59		3		0	C	IEQc2 - Low-Emitting Materials (v4.1)	3	
60		1		0	C	IEQc3 - Construction IAQM Plan	1	●
61		1	1	0	C	IEQc4 - Indoor Air Quality Assessment (v4.1)	2	
62			1	0	D	IEQc5 - Thermal Comfort	1	
63		1		1	D	IEQc6 - Interior Lighting (v4.1)	2	
64			1	2	D	IEQc7 - Daylight (v4.1)	3	
65			1	0	D	IEQc8 - Quality Views (v4.1)	1	

	Yes	Y?	?	No	Phase	Credit Name	Points Available	CALGreen Overlap
66			1	0	D	IEQc9 - Acoustic Performance (v4.1)	1	
67		7	5	4		Totals	16	
68						INNOVATION		
69	1			0	D	INc1 - Exemplary Performance: MRc2 EPDs	1	
70	1			0	D	INc2 - Exemplary Performance: TBD	1	
71	1			0	D	INc3 - Pilot Credit: LEED O+M Starter Kit	1	
72	1			0	D	INc4 - Innovation: Green Building Education	1	
73	1			0	D	INc5 - Innovation: Occupant Comfort Survey	1	
74	1			0	D	LEED Accredited Professional	1	
75	6					Totals	6	
76						REGIONAL PRIORITY		
77		1		0	D	Indoor Water Use Reduction (required threshold: 4)	1	
78				1	D	SSc4 Rainwater Management (Point Threshold: 3)	1	
79	1			0	D	WEc1 Outdoor Water Use Reduction (Point Threshold: 2)	1	
80		1		0	D	MRc4 Sourcing of Raw Materials (Point Threshold: 1)	1	
81				1	D	EAc2 Optimize Energy Performance (Point Threshold: 10)	1	
82				1	D	LTc3 Access to Quality Transit (Point Threshold: 5)	1	
83	1	2		3		Totals	4	
84						LEED Certification & Point Breakdown	Certification	
85	20					Certification Level: Confirmed	Not Certified	
86		49				Certification Level: Confirmed + Likely	Certified	
87			67			Certification Level: Confirmed + Likely + Maybe	GOLD	

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	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

#	date	issue description

REGISTERED ARCHITECT
CA 15
RENEWAL DATE
STATE OF CALIFORNIA

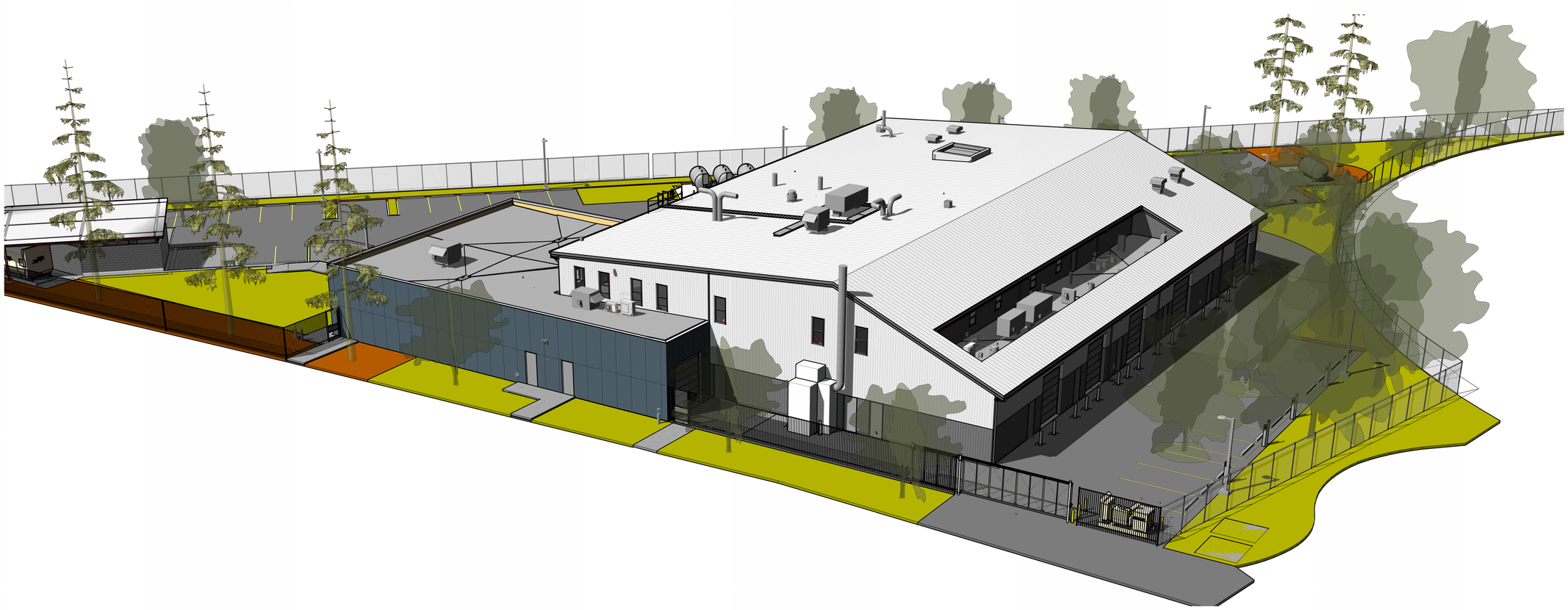
CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: DECEMBER 17, 2024

LEED DOCUMENTATION

G3.14

2 BUILDING 3000
G4.11



1 BUILDING 3000
G4.11

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CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: DECEMBER 17, 2024

3D VIEWS - AXONS

G4.11

CHABOT COLLEGE M+O

25555 HESPERIAN BLVD
HAYWARD, CA

LEGEND

	EXISTING	PROPOSED
SAWCUT AND CONFORM LINE		
RETAINING WALL		
A.C. PAVEMENT		
CONC. VALLEY GUTTER		
CONC. SIDEWALK OR PAD		
6" CURB & GUTTER		
EDGE OF A.C. PAVEMENT	EP	
6" VERTICAL CURB		
CENTER LINE		
SANITARY SEWER MAIN	8" SS	8" SS
STORM DRAIN MAIN	12" SD	15" SD
PERFORATED PIPE		6" SD
WATER MAIN	6" W	6" W
FIRE WATER MAIN	6" FW	4" FW
DOMESTIC WATER MAIN	6" DW	4" DW
CHILLED WATER MAIN	6" CHW	4" CHW
IRRIGATION LINE	2" IRR	4" IRR
HOT WATER SUPPLY & RETURN	HWS HWR	HWS HWR
STEAM LINE	ST	ST
TRENCH DRAIN		
CONDENSATE RETURN	CR	CR
FLOW LINE		
CHAIN LINK FENCE	x x	x x
GAS MAIN	G	2" G
ELECTRIC AND SIGNAL DUCT BANK	E	E
OVERHEAD ELECTRIC LINE	OHE	OHE
UNDERGROUND ELECTRIC LINE	UGE	UGE
STREET LIGHT CONDUIT	SL	SL
CONTOUR ELEVATION LINE	85	90 89
SPOT ELEVATION	x 95.94	FG 95.94
DIRECTION OF SLOPE		2:1 1%
GAS METER	GM	GM
GAS VALVE	GV	GV
WATER METER	WM	WM
WATER VALVE	WV	WV
FIRE HYDRANT		
BACK FLOW PREVENTOR		
POST INDICATOR VALVE	PIV	PIV
FIRE DEPARTMENT CONNECTION		
WATER LINE TEE		
CAP AND PLUG END		
AIR RELEASE VALVE		ARV
SIGN		
ACCESSIBLE RAMP		
CONCRETE THRUST BLOCK		
REDUCER		
SANITARY SEWER MANHOLE		
SANITARY SEWER CLEANOUT	SSCO	SSCO
STORM DRAIN MANHOLE		
STORM DRAIN AREA DRAIN		
STORM DRAIN CATCH BASIN	CB	
STORM DRAIN CURB INLET		
STORM DRAIN CLEANOUT	SDCO	SDCO
ELECTROLIER		
JOINT POLE	JP	JP
OVERLAND RELEASE		
CONSTRUCTION DETAIL REFERENCE		15 / C5.02 DETAIL REFERENCE / SHEET REFERENCE

ABBREVIATIONS

AB	–	AGGREGATE BASE
AC	–	ASPHALT CONCRETE
AD	–	AREA DRAIN
ADA	–	AMERICANS WITH DISABILITIES ACT
ASB	–	AGGREGATE SUBBASE
BC	–	BEGINNING OF CURVE
BFP	–	BACK FLOW PREVENTOR
BLDG	–	BUILDING CORNER
BLDG	–	BUILDING
BOD	–	BOTTOM OF DOCK
BOL	–	BOLLARD
BOS	–	BOTTOM OF STEP
BOW	–	FG @ BOTTOM OF WALL
BVC	–	BEGIN VERTICAL CURVE
BW	–	BACK OF WALK
C	–	CONCRETE OR CIVIL
C&G	–	CURB AND GUTTER
CB	–	CATCH BASIN
CI	–	COMBINATION INLET
CIP	–	CAST IRON PIPE
CL	–	CENTER LINE OR CLASS
CMP	–	CORRUGATED METAL PIPE
CO	–	CLEANOUT
COI	–	CURB OPENING INLET
CONC	–	CONCRETE
CONST	–	CONSTRUCTION OR CONSTRUCT
CY	–	CUBIC YARD
DCDA	–	DOUBLE CHECK DETECTOR ASSEMBLY
DI	–	DROP INLET
DIP	–	DUCTILE IRON PIPE
DOM	–	DOMESTIC
DW	–	DOMESTIC WATER
DWG	–	DRAWING
E	–	EAST
EC	–	END OF CURVE
EP	–	EDGE OF PAVEMENT
ER	–	END OF RETURN
EVC	–	END VERTICAL CURVE
ELEV	–	ELEVATION
EX., EXIST.	–	EXISTING
FC	–	FACE OF CURB
FDC	–	FIRE DEPARTMENT CONNECTION
FF	–	FINISHED FLOOR
FG	–	FINISHED GRADE
FH	–	FIRE HYDRANT
FL	–	FLOW LINE
FOUND	–	FOUNDATION
FS	–	FINISHED SURFACE
FT	–	FOOT
FW	–	FIRE WATER
G	–	GROUND ELEVATION
GB	–	GRADE BREAK
GV	–	GATE VALVE
HCR	–	ACCESSIBLE RAMP
HP	–	HIGH POINT
INV	–	INVERT ELEVATION
JP	–	JOINT POLE
JT	–	JOINT TRENCH
LIP	–	LIP OF GUTTER
LP	–	LOW POINT
LSA	–	LANDSCAPE ARCHITECT
MAX	–	MAXIMUM
MEP	–	MECHANICAL/ELECTRICAL/PLUMBING
MH	–	MANHOLE
MIN	–	MINIMUM
MPVC	–	MIDPOINT OF VERTICAL CURVE
MON	–	MONUMENT
N	–	NORTH
N.I.C.	–	NOT IN CONTRACT
NO	–	NUMBER
NTS	–	NOT TO SCALE
P	–	PAVEMENT ELEVATION
PCC	–	PORTLAND CEMENT CONCRETE / POINT OF CONTINUOUS CURVATURE
PIV	–	POST INDICATOR VALVE
PL	–	PROPERTY LINE
PMH	–	POWER MANHOLE
POC	–	POINT ON CURVE
PP	–	POWER POLE
PRC	–	POINT OF REVERSE CURVATURE
PVC	–	POLYVINYL CHLORIDE PIPE
R	–	RADIUS
RC	–	RELATIVE COMPACTION
RCP	–	REINFORCED CONCRETE PIPE
RPPA	–	REDUCED PRESSURE PRINCIPLE ASSEMBLY
R/W	–	RIGHT OF WAY
S	–	SLOPE OR SOUTH
S.A.D.	–	SEE ARCHITECTURAL DRAWINGS
SB	–	SEDIMENT BASIN
SD	–	STORM DRAIN
S.E.D.	–	SEE ELECTRICAL DRAWINGS
SF	–	SILT FENCE
SG	–	SUBGRADE
S.L.D.	–	SEE LANDSCAPE DRAWINGS
S.M.D.	–	SEE MECHANICAL DRAWINGS
SMH	–	SIGNAL MANHOLE
S.P.D.	–	SEE PLUMBING DRAWINGS
SS	–	SANITARY SEWER
STA	–	STATION
STD	–	STANDARD
S/W	–	SIDEWALK
TC	–	TOP OF CURB
TD	–	TRENCH DRAIN
TOD	–	TOP OF DOCK
TOE	–	TOE OF SLOPE
TOS	–	TOP OF STAIR
TOW	–	FG @ TOP OF WALL
TS	–	TOP OF SLAB
TYP	–	TYPICAL
UON	–	UNLESS OTHERWISE NOTED
U/G	–	UNDERGROUND
VC	–	VERTICAL CURVE
WM	–	WATER METER
WV	–	WATER VALVE
W	–	WEST
WWF	–	WELDED WIRE FABRIC
W/	–	WITH

CONSTRUCTION NOTES

1. ALL OFF-SITE CONSTRUCTION MATERIAL AND METHODS SHALL COMPLY WITH THE LATEST EDITION OF THE CITY OF HAYWARD STANDARD PLANS & SPECIFICATIONS AND THE LATEST CALTRANS STANDARD SPECIFICATIONS.
2. CONTRACTOR SHALL LEAVE AN EMERGENCY PHONE NUMBER WITH THE POLICE AND FIRE DEPARTMENTS.
3. CONTRACTOR SHALL POST ON THE SITE, EMERGENCY TELEPHONE NUMBERS FOR PUBLIC WORKS, AMBULANCE, POLICE, AND FIRE DEPARTMENTS.
4. CONTRACTOR SHALL NOTIFY ALL PUBLIC OR PRIVATE UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF WORK ADJACENT TO THE UTILITY UNLESS AN EXCAVATION PERMIT SPECIFIES OTHERWISE.
5. UTILITIES AND UNDERGROUND FACILITIES INDICATED ARE FOR INFORMATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION AND DEPTH WITH THE APPROPRIATE AGENCIES. NEITHER THE OWNER NOR THE CITY NOR THE DESIGN PROFESSIONAL ASSUMES RESPONSIBILITY THAT THE UTILITIES AND UNDERGROUND FACILITIES INDICATED WILL BE THE UTILITIES AND UNDERGROUND FACILITIES ENCOUNTERED.
6. CONTRACTOR TO CONTACT UNDERGROUND SERVICE ALERT U.S.A. 800-227-2600 FORTY-EIGHT (48) HOURS PRIOR TO BEGINNING WORK TO HAVE THE LOCATION OF EXISTING UNDERGROUND UTILITIES MARKED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY, LOCATE, AND PROTECT ALL UNDERGROUND FACILITIES.
7. THE CONTRACTOR SHALL HIRE A STREET CLEANING CONTRACTOR TO CLEAN UP DIRT AND DEBRIS FROM CITY STREETS THAT ARE ATTRIBUTABLE TO THE DEVELOPMENT'S CONSTRUCTION ACTIVITIES.
8. ALL GRADING SHALL BE PERFORMED IN SUCH A MANNER AS TO COMPLY WITH THE STANDARDS ESTABLISHED BY THE AIR QUALITY MAINTENANCE DISTRICT FOR AIRBORNE PARTICULATES (DUST).
9. ALL GRADING SHALL CONFORM TO APPROVED SPECIFICATIONS PRESENTED HEREON OR ATTACHED HERETO. ALL GRADING WORK SHALL BE OBSERVED AND APPROVED BY THE SOILS ENGINEER. THE SOILS ENGINEER SHALL BE NOTIFIED AT LEAST 48 HOURS BEFORE BEGINNING ANY GRADING. UNOBSERVED AND UNAPPROVED GRADING WORK SHALL BE REMOVED AND REDONE AT THE CONTRACTORS EXPENSE.
10. ALL MATERIALS, REQUIRED FOR THE COMPLETE EXECUTION OF THE PROJECT, SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
11. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGMEN OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY DURING THE CONSTRUCTION PERIOD.
12. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR REPLACE ANY EXISTING IMPROVEMENTS OF UNDERGROUND FACILITIES DAMAGED DURING THE CONSTRUCTION PERIOD.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL ENCROACHMENT, EXCAVATION, CONCRETE, ELECTRICAL, PLUMBING, ETC. PERMITS NECESSARY PRIOR TO BEGINNING CONSTRUCTION FOR ANY WORK.
14. THE CONTRACTOR SHALL HAVE A SUPERINTENDENT OR REPRESENTATIVE ON SITE AT ALL TIMES DURING CONSTRUCTION.
15. STORAGE OF CONSTRUCTION MATERIAL AND EQUIPMENT ON CITY STREETS WILL NOT BE PERMITTED.
16. CONSTRUCTION EQUIPMENT SHALL BE PROPERLY MUFFLED. UNNECESSARY IDLING OF GRADING CONSTRUCTION EQUIPMENT IS PROHIBITED.
17. CONSTRUCTION EQUIPMENT, TOOLS, ETC. SHALL NOT BE CLEANED OR RINSED INTO A STREET, GUTTER OR STORM DRAIN.
18. A CONTAINED AND COVERED AREA ON-SITE SHALL BE USED FOR STORAGE OF CEMENT BAGS, PAINTS, FLAMMABLE, OILS, FERTILIZERS, PESTICIDES, OR ANY OTHER MATERIALS THAT HAVE POTENTIAL FOR BEING DISCHARGED TO THE STORM DRAIN SYSTEM BY WIND OR IN THE EVENT OF A MATERIAL SPILL.
19. ALL CONSTRUCTION DEBRIS SHALL BE GATHERED ON A REGULAR BASIS AND PLACED IN A DUMPSTER WHICH IS EMPTIED OR REMOVED WEEKLY. WHEN FEASIBLE, TARPS SHALL BE USED ON THE GROUND TO COLLECT FALLEN DEBRIS OR SPLATTERS THAT COULD CONTRIBUTE TO STORMWATER POLLUTION.
20. ANY TEMPORARY ON-SITE CONSTRUCTION PILES SHALL BE SECURELY COVERED WITH A TARP OR OTHER DEVICE TO CONTAIN DEBRIS.
21. CONCRETE TRUCKS AND CONCRETE FINISHING OPERATIONS SHALL NOT DISCHARGE WASH WATER INTO THE STREET GUTTERS OR DRAINS.

DISCREPANCIES

IF THERE ARE ANY DISCREPANCIES BETWEEN DIMENSIONS IN DRAWINGS AND EXISTING CONDITIONS WHICH WILL AFFECT THE WORK, THE CONTRACTOR SHALL BRING SUCH DISCREPANCIES TO THE ATTENTION OF THE ENGINEER FOR ADJUSTMENT BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER FITTING OF ALL WORK AND FOR THE COORDINATION OF ALL TRADES, SUBCONTRACTORS, AND PERSONS ENGAGED UPON THIS CONTRACT.

UTILITY/POTHOLE NOTE

THE TYPES, LOCATIONS, SIZES AND /OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ARE APPROXIMATE AND WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED, BUT WHICH ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND FACILITIES AND UTILITIES BY POTHOLING PRIOR TO COMMENCING CONSTRUCTION.

BOUNDARY NOTE

THE CHABOT BOUNDARY IS BASED ON LEGAL DESCRIPTION PER BOOK 1126 O.R. PAGE 821, ALAMEDA COUNTY RECORDS.
MONUMENTS WERE FOUND LOCATING CL OF HESPERIAN BOULEVARD ON OUR EASTERLY BOUNDARY, AND THE SOUTHERLY LINE OF TRACT 1407, WHICH IS OUR NORTHERLY BOUNDARY. THE WESTERLY BOUNDARY WAS ESTABLISHED BY FINDING PROPERTY PIPES ON BOTH SIDES OF THE COURSE SHOWN ON TRACT 6713 AS "N78-02-25E 221.80'" THE METES AND BOUNDS DESCRIPTION PER DEED CONNECTED CENTERLINE MONUMENTS ON HESPERIAN BOULEVARD ON OUR EASTERLY LINE, AND THE EXTERIOR BOUNDARY OF TRACT 6713 ON OUR WESTERLY LINE, TO THE ORIGINAL CENTERLINE OF DEPOT ROAD, WHEN IT WAS A 50' RIGHT-OF-WAY. (DATA TAKEN FROM TITLE REPORT SUPPLIED BY OWNER, DATED APRIL 27, 1964.)
UTILITIES

BENCHMARK NOTE

THE BASIS OF ELEVATION FOR THIS SURVEY IS A CITY OF HAYWARD BENCHMARK LOCATED AT THE INTERSECTION OF HESPERIAN BOULEVARD AND CATHY WAY.
ELEVATION = 39.40 FEET

BASIS OF BEARINGS

FOUND PK NAIL IN NORTHWEST PARKING LOT ADJACENT TO BUILDING 2100 TO CITY OF HAYWARD MONUMENT LOCATED IN INTERSECTION OF HESPERIAN BOULEVARD AND DEPOT ROAD.

BEARING = N59°43'53"W
DISTANCE = 1828.24'

ADA NOTES

1. ALL SITE WORK SHALL BE IN CONFORMANCE WITH TITLE 24 OF THE CALIFORNIA ADMINISTRATIVE CODE AND WITH THE AMERICANS WITH DISABILITIES ACT.
2. CURB RAMPS SHALL NOT EXCEED A SLOPE OF 1:12 (8.33%).
3. PATH OF TRAVEL TO BUILDINGS SHALL NOT EXCEED A SLOPE OF 1:20 (5%) UNLESS RAILINGS ARE SHOWN ON ARCHITECTURAL PLANS, IN WHICH CASE THE SLOPE SHALL NOT EXCEED 1:12 (8.33%).
4. A 2% MAXIMUM SLOPE LANDING SHALL BE PROVIDED AT PRIMARY ENTRANCES TO BUILDINGS, THE LANDINGS SHALL HAVE A MINIMUM WIDTH OF 60" AND A MINIMUM DEPTH OF 60" WHEN THE DOOR OPENS INTO THE BUILDING, AND 42" PLUS THE WIDTH OF THE DOOR WHEN THE DOOR OPEN ONTO THE LANDING.
5. RAMPS ARE DEFINED AS ANY WALKWAY BETWEEN SLOPES OF 1:20 (5%) AND 1:12 (8.33%), AND SHALL HAVE A MINIMUM WIDTH OF 48" AND A MAXIMUM CROSS-SLOPE OF 2% RAMPS EXCEEDING 2'-6" VERTICAL SHALL HAVE INTERMEDIATE (2% MAXIMUM SLOPE) LANDINGS HAVING A MINIMUM LENGTH IN THE DIRECTION OF TRAVEL OF 60". BOTTOM LANDINGS AT CHANGES IN RAMP DIRECTION SHALL HAVE A MINIMUM LENGTH OF 72".
6. MAXIMUM CROSS SLOPE ON ANY SIDEWALK OR RAMP SHALL BE 2% MAXIMUM. MAXIMUM SLOPE WITHIN PARKING STALLS DESIGNATED AS ACCESSIBLE PARKING SHALL BE 2% IN ANY DIRECTION.
7. ALL SIDEWALK SHALL HAVE A 4' MINIMUM CLEAR WIDTH FOR ACCESSIBLE CONFORMANCE.

APPLICABLE CODES AND REGULATIONS

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023
2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR*
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
(2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2019 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
(2020 NATIONAL ELECTRICAL CODE AND 2019 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
(2021 IAPMO UNIFORM MECHANICAL CODE AND 2019 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
(2021 IAPMO UNIFORM PLUMBING CODE AND 2019 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
(2021 INTERNATIONAL FIRE CODE AND 2019 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
(2021 INTERNATIONAL EXISTING BUILDING CODE AND 2019 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2019 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2022 CBC PART 2 CH 35)
NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION

PARTIAL LIST OF APPLICABLE STANDARDS
NFPA 13 – STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED)..... 2022 EDITION
NFPA 14 – STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED)..... 2019 EDITION
NFPA 17 – STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS..... 2024 EDITION
NFPA 17A – STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS..... 2024 EDITION
NFPA 20 – STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION..... 2022 EDITION
NFPA 22 – STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION..... 2023 EDITION
NFPA 24 – STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED)..... 2022 EDITION
NFPA 72 – NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED)..... 2022 EDITION
NFPA 80 – STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES..... 2022 EDITION
NFPA 2001 – STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED)..... 2022 EDITION
UL 300 – STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT..... 2022 (R2010)
UL 464 – AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES..... 2023 EDITION
UL 521 – STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS..... 2023 EDITION
UL 1971 – STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED..... 2024 (R2010)
ICC 300 – STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS..... 2023 EDITION

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.

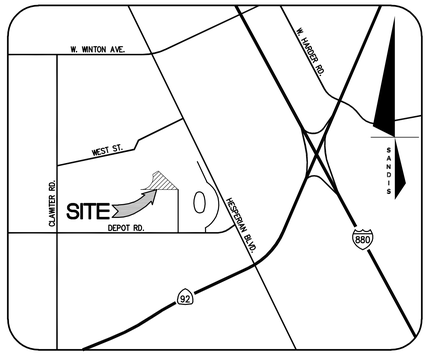
SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.
*ALL PARTS OF THE 2022 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2023 EXCEPT THE EFFECTIVE DATE FOR THE USE OF THE 2022 BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24, PART1, CHAPTER 10) JANUARY 8, 2019 AND THE EFFECTIVE DATE FOR THE USE OF THE 2022 CALIFORNIA ADMINISTRATIVE CODE (TITLE 24, PART 1, CHAPTER 4) IS MARCH 5, 2022

SOILS REPORT

PROJECT SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE GEOTECHNICAL EVALUATION & GEOLOGIC HAZARDS ASSESSMENT FOR THE PROPOSED CHABOT COLLEGE M+O PROJECT PROVIDED IN THE ATLAS GEOTECHNICAL ENGINEERING AND DESIGN REPORT DATED 04/11/2023.

HAZARDOUS MATERIALS NOTE

ASBESTOS CONTAINING PIPE AND PIPE INSULATION IS KNOWN TO EXIST WITHIN THE PROJECT AREA. THE CONTRACTOR WILL PROTECT ALL ASBESTOS CONTAINING ITEMS DURING THE EXECUTION OF THIS CONTRACT. ADDITIONALLY THE CONTRACTOR WILL COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS REGARDING CONSTRUCTION ACTIVITIES NEAR ASBESTOS CONTAINING MATERIALS.



VICINITY MAP

N.T.S.

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF THE DEMOLITION OF THE EXISTING MAINTENANCE AND OPERATIONS BUILDING, SURFACES, AND ONSITE UTILITIES IN PREPARATION FOR THE PROPOSED MAINTENANCE AND OPERATIONS FACILITY. THE PROPOSED BUILDING WILL REQUIRE NEW UTILITY CONNECTIONS, INCLUDING: DOMESTIC WATER, FIRE WATER, ELECTRICAL, HYDRONICS, STORM DRAIN AND SANITARY SEWER. THIS PROJECT UTILIZES BIORETENTION AREAS TO ADDRESS STORMWATER TREATMENT.

CIVIL SHEET INDEX

C0.00	CIVIL NOTES, LEGEND, AND ABBREVIATIONS
C1.00	TOPOGRAPHIC SURVEY
C2.00	DEMOLITION PLAN
C3.00	OVERALL HORIZONTAL CONTROL PLAN
C3.10	SITE & HORIZONTAL CONTROL
C3.20	FIRE ACCESS PLAN
C4.00	OVERALL GRADING & DRAINAGE PLAN
C4.10	GRADING & DRAINAGE ENLARGMENT
C4.11	GRADING & DRAINAGE ENLARGMENT
C4.12	GRADING & DRAINAGE ENLARGMENT
C5.00	OVERALL UTILITY PLAN
C5.10	UTILITY ENLARGEMENT
C6.00	STORMWATER MANAGEMENT PLAN
C7.00	CONSTRUCTION DETAILS
C7.01	CONSTRUCTION DETAILS
C7.02	CONSTRUCTION DETAILS
C7.03	CONSTRUCTION DETAILS

811 Know what's below. Call before you dig.

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

CAUTION: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THE PLANS.

UNAUTHORIZED CHANGES AND USES

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File: X:\P\618201.F\4_ENGINEERING\2_PLAN SETS\3_SHEET SET\ONSITE\C0.00.dwg Date:Dec 10, 2024

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-121159 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 2/19/2025

CLIENT
CHABOT COLLEGE
25555 HESPERIAN BLVD
HAYWARD, CA 94612

ARCHITECT
HGA
405 14th Street, Suite 500
Oakland, CA 94612
510.516.0167
www.hga.com

SANDIS

DSA - PRE CHECKED DRAWINGS

6	2024.12.17	DSA PC2
5	2024.06.05	DSA PC1
4	2023.10.23	DSA SUBMISSION
3	2023.06.16	50% CONSTRUCTION DOCUMENTS
2	2023.01.18	100% DESIGN DEVELOPMENT
1	2022.02.18	SCHEMATIC DESIGN
⚠	date	issue description

DATE 12/10, 2024

REGISTERED PROFESSIONAL ENGINEER
MICHAEL A. KUYKENDALL
No. 70870
Exp. 6/30/25
CIVIL
STATE OF CALIFORNIA

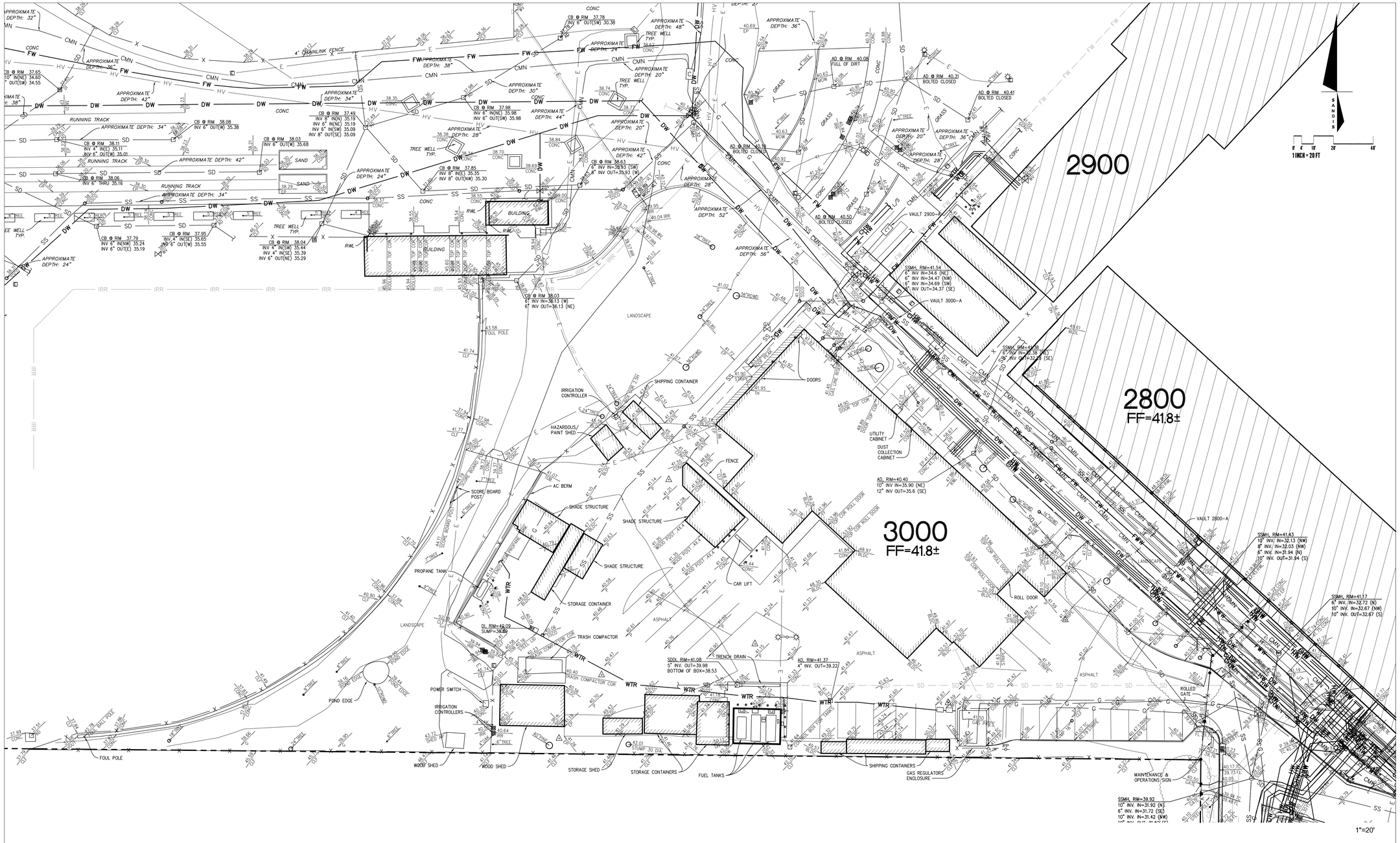
MICHAEL A. KUYKENDALL
R.C.E. NO. 70870, EXPIRES 6-30-25

CHABOT M+O
2555 HESPERIAN BLVD, HAYWARD CA 94545

project number: 20-296
date: DECEMBER 17, 2024

CIVIL NOTES, LEGEND, AND ABBREVIATIONS

C0.00



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HGA

IDENTIFICATION STAMP
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APP: 01-121159 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 2/19/2025

CHABOT COLLEGE

CLIENT
CHABOT COLLEGE
25555 HESPERIAN BLVD
HAYWARD, CA 94612

ARCHITECT
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Oakland, CA 94612
510.516.0167
www.hga.com

SANDIS

DSA - PRE CHECKED DRAWINGS

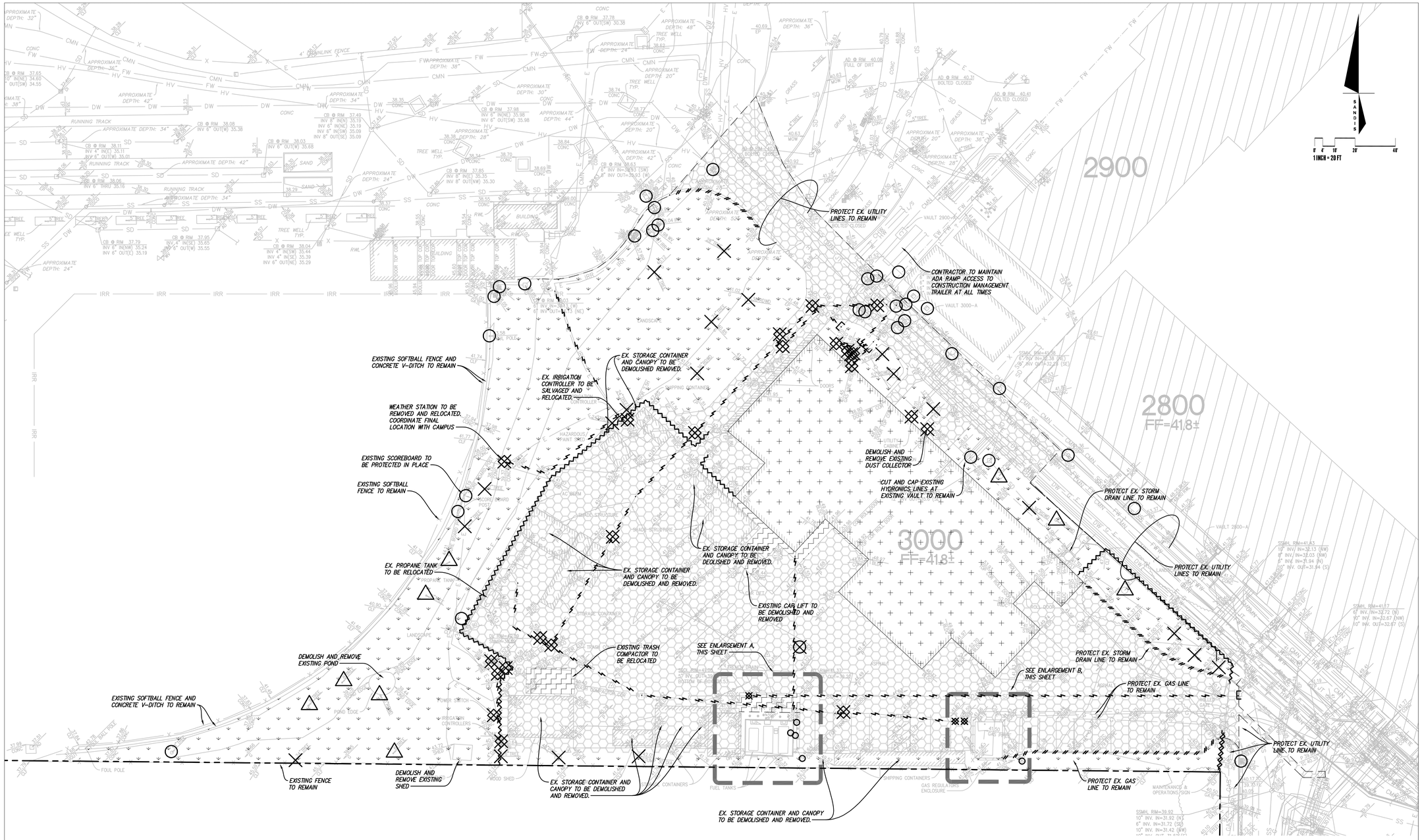
6	2024.12.17	DSA PC2
5	2024.06.05	DSA PC1
4	2023.10.23	DSA SUBMISSION
3	2023.06.16	50% CONSTRUCTION DOCUMENTS
2	2023.01.18	100% DESIGN DEVELOPMENT
1	2022.02.18	SCHEMATIC DESIGN
⚠	date	issue description

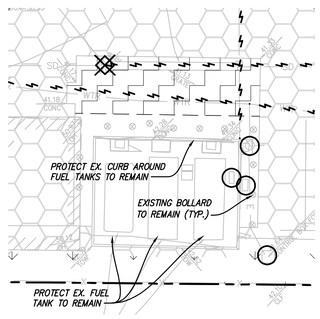
CHABOT M+O
2555 HESPERIAN BLVD, HAYWARD CA 94545

project number: 20-296
date: DECEMBER 17, 2024

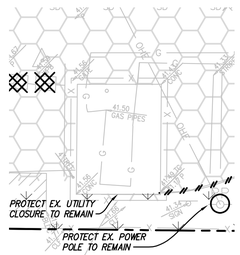
TOPOGRAPHIC SURVEY

C1.00





ENLARGEMENT A
SCALE: 1"=10'



ENLARGEMENT B
SCALE: 1"=10'

LEGEND

- SAWCUT LINE. CONTRACTOR SHALL SAWCUT WITH A NEAT, CLEAN EDGE. SAWCUT CONCRETE AT NEAREST JOINT TO SAWCUT LINE SHOWN ON PLAN.
- DEMOLISH AND REMOVE AC PAVING AND ANY ASSOCIATED BASE ROCK. STABILIZE THE EXISTING SUBGRADE. DEMOLISHED MATERIAL MAY BE USED AS BASE ROCK IF APPROVED BY GEOTECHNICAL ENGINEER.
- DEMOLISH AND REMOVE CONCRETE INCLUDING ANY ASSOCIATED BASE ROCK AND REBAR. STABILIZE THE EXISTING SUBGRADE. DEMOLISHED MATERIAL MAY BE USED AS BASE ROCK IF APPROVED BY THE GEOTECHNICAL ENGINEER.
- CLEAR AND GRUB EXISTING LANDSCAPE AREA SO NO ORGANICS ARE STILL PRESENT.
- DEMOLISH AND REMOVE EXISTING BUILDING, SEE ARCHITECTURAL PLANS FOR EXTENT OF BUILDING DEMOLITION. STABILIZE THE EXISTING SUBGRADE.
- DEMOLISH AND REMOVE EXISTING CURB AND GUTTER, INCLUDING ANY ASSOCIATED REBAR OR BASE ROCK. SAWCUT WITH NEAT, CLEAN EDGE.
- REMOVE EXISTING WALL OR FENCE INCLUDING ASSOCIATED FOOTINGS. RETURN FENCE TO OWNER.
- DEMOLISH AND REMOVE EX. UTILITY LINE. BACKFILL EMPTY TRENCH WITH APPROVED FILL PER GEOTECHNICAL REPORT.
- DEMOLISH AND REMOVE EX. UTILITY STRUCTURE
- CAP EXISTING UTILITY WHERE SHOWN PER UTILITY OWNERS SPECIFICATIONS AND REQUIREMENTS. IF PRESSURIZED UTILITY CONTRACTOR SHALL HAVE COMPETENT PROFESSIONAL DESIGN PIPE RESTRAINTS.
- DEMOLISH AND REMOVE EX. STREETLIGHT AND FOUNDATION
- PROTECT EXISTING UTILITY TO REMAIN
- REMOVE EXISTING TREE AND ROOT BALL. COORDINATE WITH LANDSCAPE ARCHITECT AND PROJECT ARBORIST PRIOR TO REMOVING ANY TREES.
- PROTECT EXISTING TREE TO REMAIN. SEE LANDSCAPE PLANS AND ARBORIST'S REPORT FOR TREE PROTECTION DETAILS.

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⚠	date	issue description

DATE 12/10, 2024

REGISTERED PROFESSIONAL ENGINEER
MICHAEL A. KUYKENDALL
No. 70870
Exp. 6/30/25
CIVIL
STATE OF CALIFORNIA

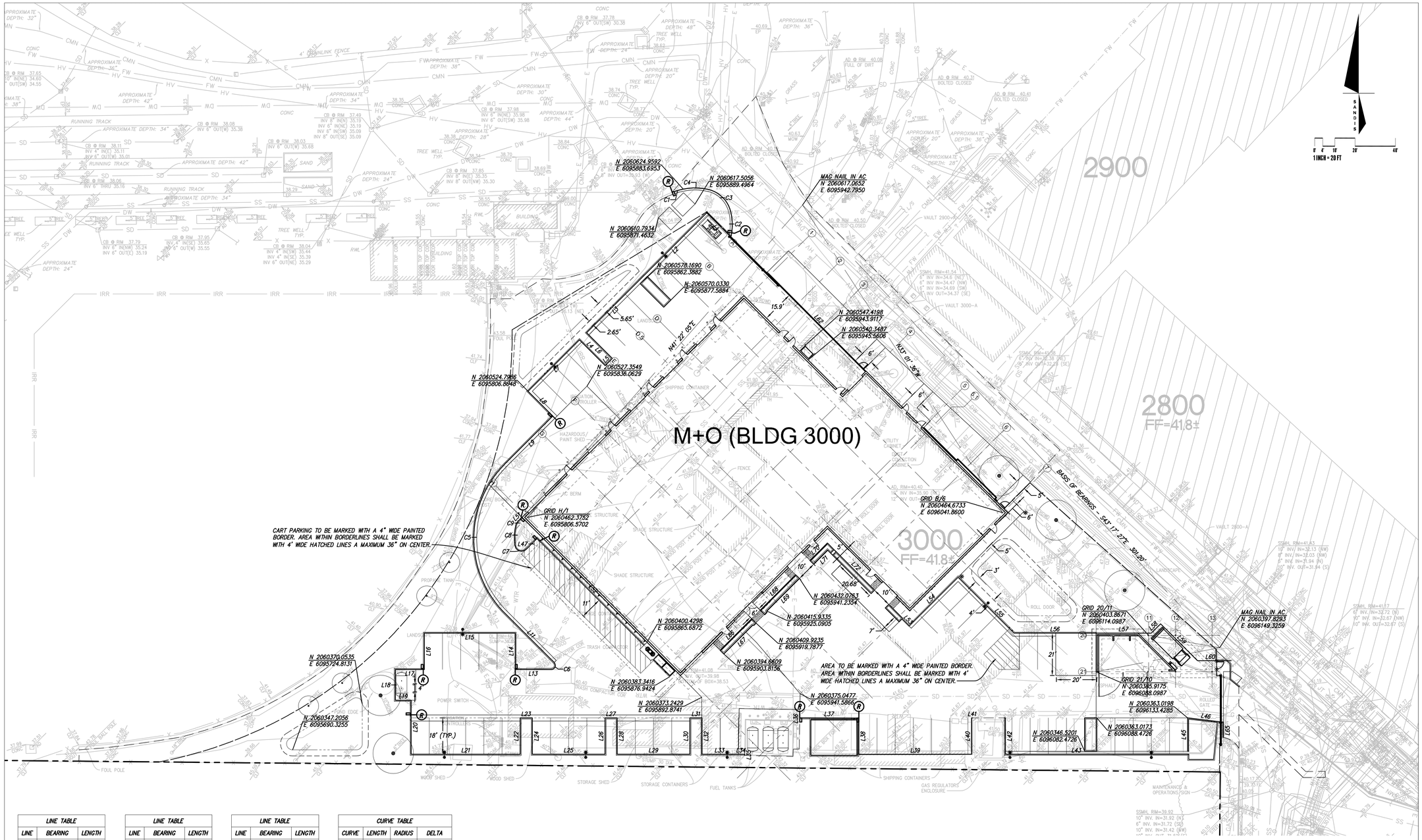
MICHAEL A. KUYKENDALL
R.C.E. NO. 70870, EXPIRES 6-30-25

CHABOT M+O
2555 HESPERIAN BLVD, HAYWARD CA 94545

project number: 20-296
date: DECEMBER 17, 2024

DEMOLITION PLAN

C2.00



LINE TABLE		
LINE	BEARING	LENGTH
L1	N45°00'00"W	16.68'
L2	S45°01'00"W	48.08'
L3	S45°01'00"W	36.00'
L4	S44°59'00"E	18.00'
L5	N45°01'00"E	5.00'
L6	N44°59'00"W	18.00'
L7	S45°01'00"W	36.00'
L8	S44°57'02"E	17.34'
L9	S45°00'00"W	33.83'
L11	S45°00'00"E	36.15'
L13	N90°00'00"W	17.91'
L14	N0°00'00"E	18.00'
L15	N90°00'00"W	45.00'
L16	S0°00'00"E	18.00'
L17	S89°59'52"W	14.32'
L18	S0°00'22"E	15.28'
L19	N89°59'53"E	7.84'
L20	S0°02'44"W	26.72'
L21	N90°00'00"E	54.00'
L22	N0°00'00"E	18.00'
L23	N89°59'57"E	6.00'
L24	S0°00'00"E	18.00'

LINE TABLE		
LINE	BEARING	LENGTH
L25	N90°00'00"E	36.00'
L26	N0°00'00"E	18.00'
L27	N90°00'00"E	6.00'
L28	S0°00'00"E	18.00'
L29	N90°00'00"E	36.00'
L30	N0°00'00"W	18.00'
L31	S89°59'57"E	6.00'
L32	S0°00'01"W	18.00'
L33	N90°00'00"E	17.50'
L34	S90°00'00"E	3.60'
L35	S0°00'00"E	0.50'
L36	N0°51'54"E	0.50'
L37	S89°56'26"E	29.29'
L38	S0°03'44"E	18.03'
L39	N89°56'01"E	55.83'
L40	N0°01'00"E	18.00'
L41	N89°59'44"E	0.50'
L42	S0°00'00"E	18.00'
L43	S89°59'59"E	90.77'
L45	N0°05'01"W	16.50'
L46	S83°07'26"E	17.85'
L47	S45°03'42"W	7.70'

LINE TABLE		
LINE	BEARING	LENGTH
L51	N45°00'50"E	2.94'
L52	S45°00'00"E	74.86'
L53	S45°00'00"E	5.02'
L54	N45°00'00"E	34.29'
L55	S44°58'49"E	39.17'
L56	N89°56'06"E	40.62'
L57	S89°54'25"E	27.38'
L58	N45°01'00"E	6.50'
L59	S45°00'46"E	25.81'
L60	S89°59'00"E	16.62'
L62	S45°00'00"E	69.08'
L65	S0°01'00"W	7.55'
L66	S45°03'15"W	22.09'
L67	N45°00'13"E	20.09'
L68	N45°00'11"E	24.83'
L69	S45°00'13"W	22.83'
L70	S45°00'00"W	12.20'
L71	N45°00'00"E	9.80'
L72	N45°00'00"W	26.88'

CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C1	5.68'	33.99'	9°34'57"
C2	11.86'	28.14'	24°08'33"
C3	16.52'	15.00'	63°05'15"
C4	12.71'	28.14'	25°52'29"
C5	80.37'	52.04'	88°28'38"
C6	4.71'	2.00'	135°00'00"
C7	7.18'	3.25'	126°37'39"
C8	10.45'	27.25'	21°58'22"
C9	1.78'	3.25'	31°23'59"

PROJECT BENCHMARK NOTE:

SANDIS POINT No. 90226 – NORTH WEST OF THE FACILITIES MANAGEMENT OFFICE.

ELEVATION = 41.11 FEET

BASIS OF BEARINGS

BASIS OF BEARINGS FOR THIS PROJECT ARE BASED UPON A LINE FROM A CONTROL POINT NORTH WEST OF THE FACILITIES MANAGEMENT OFFICE (SANDIS POINT No. 90226) TO A CONTROL POINT SOUTH EAST OF BUILDING 2800 (SANDIS POINT No. 88002)

SHEET NOTES

RED CURB LIMITS WITH STENCIL "NO PARKING – FIRE LANE – CVC 22500.1" IN WHITE PER CFC 503.3, DSA POLICY 07-03 AND HAYWARD FIRE LANE MARKING STANDARDS 2023 50FT OC SPACING

NOTES

1. *PAVEMENT MARKINGS AND STRIPING SHALL BE RETROFLECTIVE THERMOPLASTIC PER CALTRANS SPECIFICATIONS UNLESS OTHERWISE NOTED ON PLANS.*
2. *ALL LANE STRIPING AND PAVEMENT MARKERS SHALL MEET CALTRANS STANDARD PLANS.*
3. *ALL CURB TEXT SHALL BE 3-INCHES IN HEIGHT, SPACED 50-FT APART MAXIMUM.*
4. *ALL PARKING STALL STRIPES SHALL BE 4-INCH WIDE WHITE PAINT STRIPES SET 9-FT O.C (TYP.) UNLESS OTHERWISE NOTED.*
5. *AT FH, PIV AND FDC'S IF NOT INDICATED IN PLANS, PAINT CURB RED FOR 15-FT CENTERED.*

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MICHAEL A. KUYKENDALL
R.C.E. NO. 70870, EXPIRES 6-30-25

CHABOT M+O
2555 HESPERIAN BLVD, HAYWARD CA 94545

project number: 20-296
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OVERALL HORIZONTAL CONTROL PLAN

C3.00

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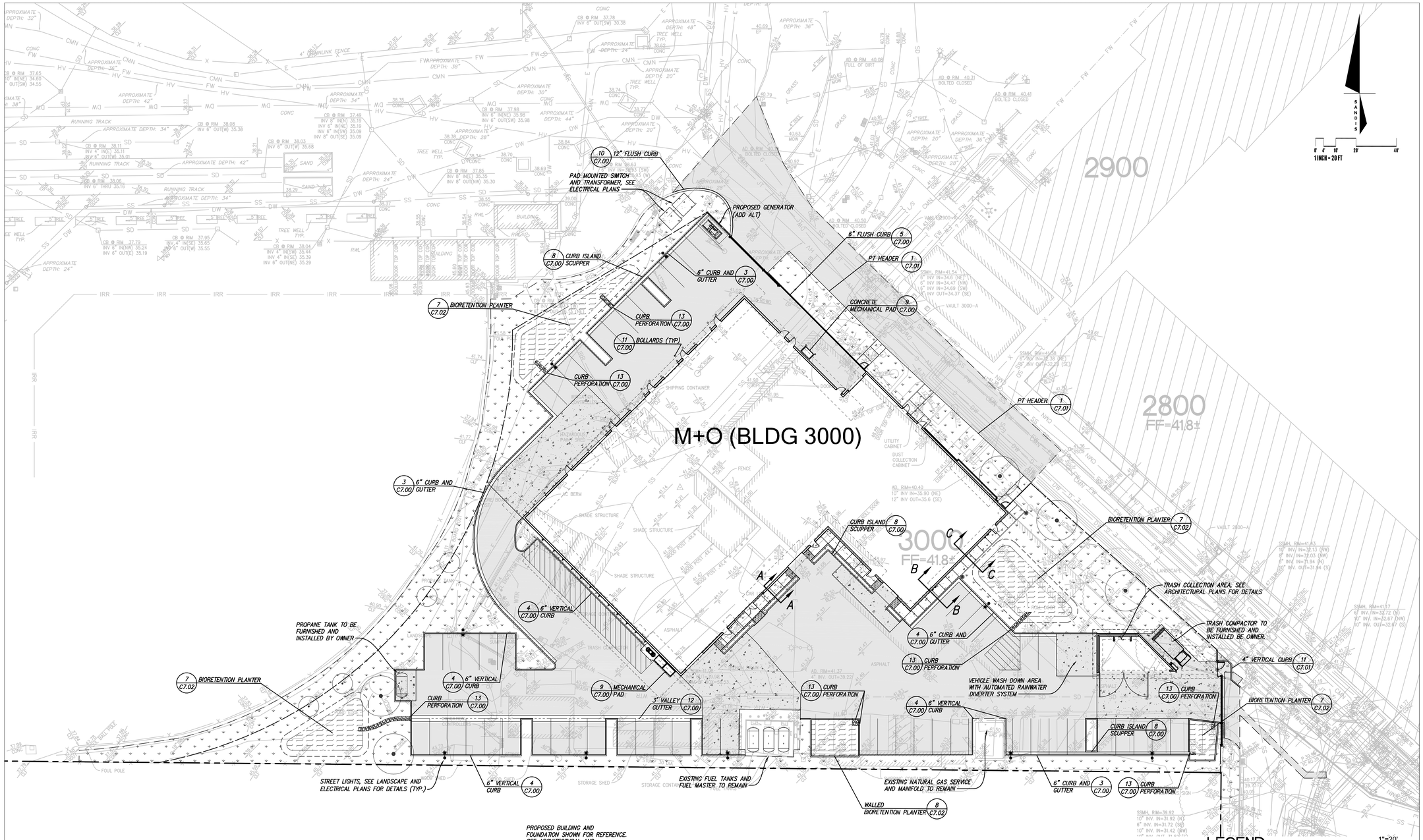
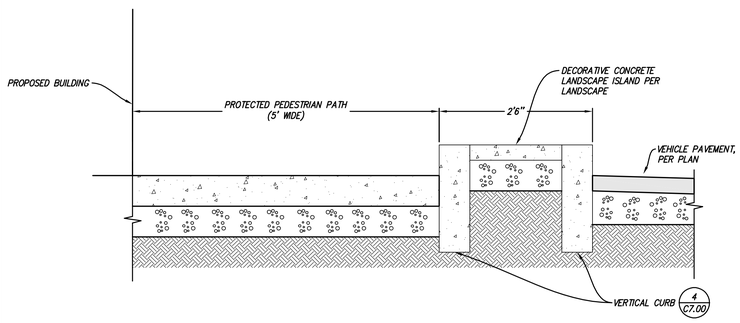
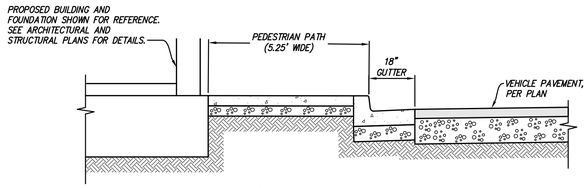
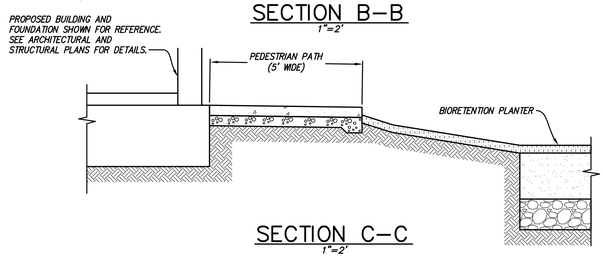




SECTION A–A
1"=1'



SECTION B–B
1"=2'



SECTION C–C
1"=2'

1"=20'

LEGEND

- PROPERTY LINE
- SAWCUT LINE
- FLOW LINE
- GRADE BREAK
- AC PAVEMENT 1 C7.00
- TRUNCATED DOMES 2 C7.01
- VEHICULAR CONCRETE 2 C7.00
- CONCRETE SIDEWALK, SEE LANDSCAPE PLANS FOR DETAILS
- PLANTING, SEE LANDSCAPE PLANS FOR DETAILS
- BIO–TREATMENT AREA

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project number: 20-296
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SITE & HORIZONTAL CONTROL

C3.10

DSA 810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

Division of the State Architect (DSA) documents referenced within this publication are available on the DSA Forms or DSA Publications webpages.

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply.

Information associated with compliance items 1 through 3 below is to be provided for all project types indicated above. Information associated with items 4 through 7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the Local Fire Authority (LFA) is only required when an alternate design means is being requested.

The Project Information and Fire & Life Safety Information sections are to be completed for all projects and imaged onto the fire access site plan. When an alternate design/means is proposed, all sections on pages 1 and 2 are to be completed and imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy *PL 09-01: Fire Flow for Buildings.*

PROJECT INFORMATION	
School District/Owner:	Chabot Las Positas Community College District
Project Name/School:	Chabot M+O / Chabot College
Project Address:	25555 Hesperian Blvd, Hayward, CA 94545

FIRE & LIFE SAFETY INFORMATION				
1.	Has a fire hydrant flow test been performed within the past 12 months? *(If yes, provide a copy of the test data.)*	Yes ☑		No ☐
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes ☑		No ☐
3.	Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? *(If yes, indicate FHSZ classification below.)*	Yes ☐		No ☑
	Refer to the following website for FHSZ locations: http://egis.fire.ca.gov/FHSZ/	Moderate ☐	High ☐	Very High ☐
	Wildland Interface Area (WIFA) *(If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)*			WIFA ☐

DSA 810
FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

CONDITION MEANS AND METHODS RESOLUTION		ALTERNATE ACCEPTED			
		Yes	No	N/A	N/R
4.	Emergency vehicle access roadways do not meet CFC requirements.				
4a.	**Acceptable Alternate:** Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.				
5.	**Fire Hydrants:** Number and spacing does not meet CFC requirements.				
5a.	**Acceptable Alternate:** Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property.				
6.	**Fire Hydrants:** Water flow and pressure are less than CFC minimum.				
6a.	**Acceptable Alternate:** The available flow and pressure is acceptable for providing fire suppression and protection of life and property.				
7.	Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements.				
7a.	**Acceptable Alternate:** The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.				

School District Acceptance of Acceptable Design Alternates

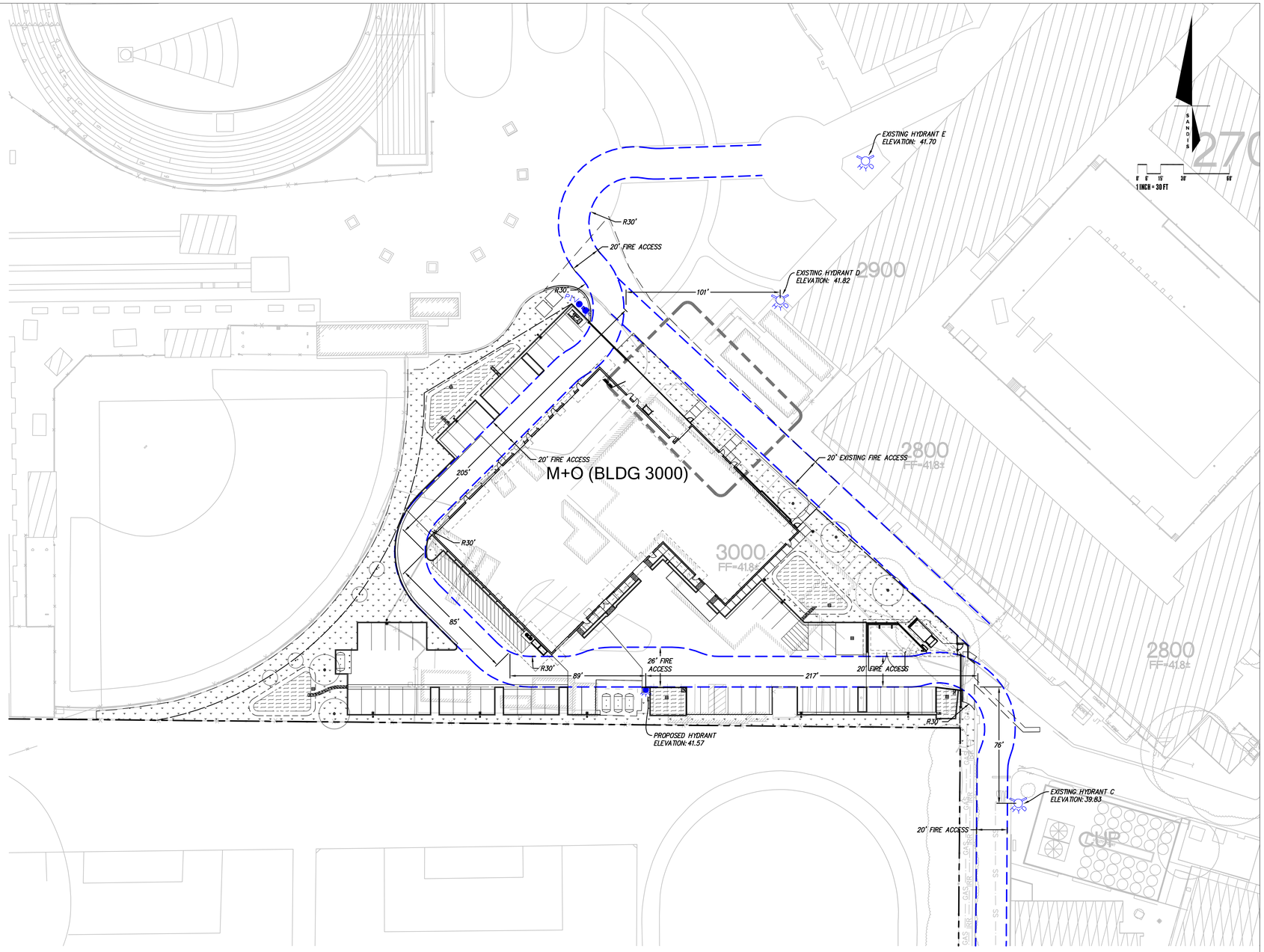
By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements, as indicated by one or more of the conditions indicated at items 4a, 5a, 6a or 7a, for providing fire and life safety protection of life and property.

Accepted by: _____ Title: _____

Signature: _____ Date: _____

LOCAL FIRE AUTHORITY (LFA) INFORMATION	
LFA Agency Name: Hayward Fire Department	
LFA Review Official: Andrew Westfield	
Title: Assistant Fire Marshal	Work Phone: (510) 583-4922
Work Email: andrew.westfield@hayward-ca.gov	

LFA Reviewer's Signature: _____ Date: 10/23/23



FIRE FLOW REQUIREMENTS

CONSTRUCTION TYPE:	II-B	
GROSS BUILDING FLOOR AREA:	32,830 SF	
FULLY SPRINKLERED:	YES	
REFERENCE FIRE WATER FLOW:	3,750 GPM	(CFC TABLE BB105.1)
ALLOWED FIRE FLOW REDUCTION*	50%	
REQUIRED FIRE FLOW:	1,875 GPM	(CFC TABLE BB105.1)
REQUIRED FIRE FLOW DURATION:	2 HR	(CFC TABLE BB105.1)
REQUIRED NUMBER OF HYDRANTS:	2	(CFC TABLE CC105.1)
AVERAGE HYDRANT SPACING:	450 FT	(CFC TABLE CC105.1)

* PER CITY OF HAYWARD FIRE CHIEF THE MAXIMUM ALLOWED REDUCTION IS 50%.

NOTES:

1. VALUES LISTED PER 2022 CALIFORNIA FIRE CODE APPENDIX BB AND C.

FIRE FLOW TEST DATA

HYDRANT D, SOUTHWEST CORNER OF BLDG 2900

8-INCH MAIN	STATIC PRESSURE	= 93 PSI
FIRE HYDRANT	RESIDUAL PRESSURE @ 1210 GPM	= 62 PSI
	AVAILABLE FLOW @ 20 PSI	= 2048 GPM

HYDRANT C, WEST OF CENTRAL UTILITY PLANT

6-INCH MAIN	STATIC PRESSURE	= 92 PSI
FIRE HYDRANT	RESIDUAL PRESSURE @ 1030 GPM	= 72 PSI
	AVAILABLE FLOW @ 20 PSI	= 2636 GPM

FLOW DATA PER SANDIS INITIAL FIRE FLOW TEST 04/26/2024

FIRE PROTECTION NOTES

1. FIRE APPARATUS ROADWAYS, INCLUDING PUBLIC OR PRIVATE STREETS OR ROADS USED FOR VEHICLE ACCESS SHALL BE INSTALLED AND IN SERVICE PRIOR TO BUILDING CONSTRUCTION, OR TEMPORARY FIRE ACCESS AND WATER PROVIDED DURING CONSTRUCTION PER THE APPROVED FIRE AGENCY'S REQUIREMENTS. CONTRACTOR TO SUBMIT A CONSTRUCTION LOGISTICS PLAN TO BE APPROVED BY THE FIRE DEPARTMENT PRIOR TO STARTING WORK.
2. FIRE PROTECTION WATER SERVING ALL HYDRANTS SHALL BE PROVIDED AS SOON AS COMBUSTIBLE MATERIAL ARRIVES ON SITE.
3. PRIOR TO COMBUSTIBLE MATERIAL ARRIVING ON THE SITE, CONTACT THE HAYWARD FIRE DEPARTMENT TO SCHEDULE AN INSPECTION OF ROADWAYS AND FIRE HYDRANTS PER CFC 2022.

LEGEND

- PROPOSED FIRE HYDRANT
- PIV — PROPOSED PIV
- PROPOSED FIRE DEPARTMENT CONNECTION
- EXISTING FIRE HYDRANT
- PIV — EXISTING PIV
- EXISTING FIRE DEPARTMENT CONNECTION
- FIRE ACCESS ROUTE CLEARANCE

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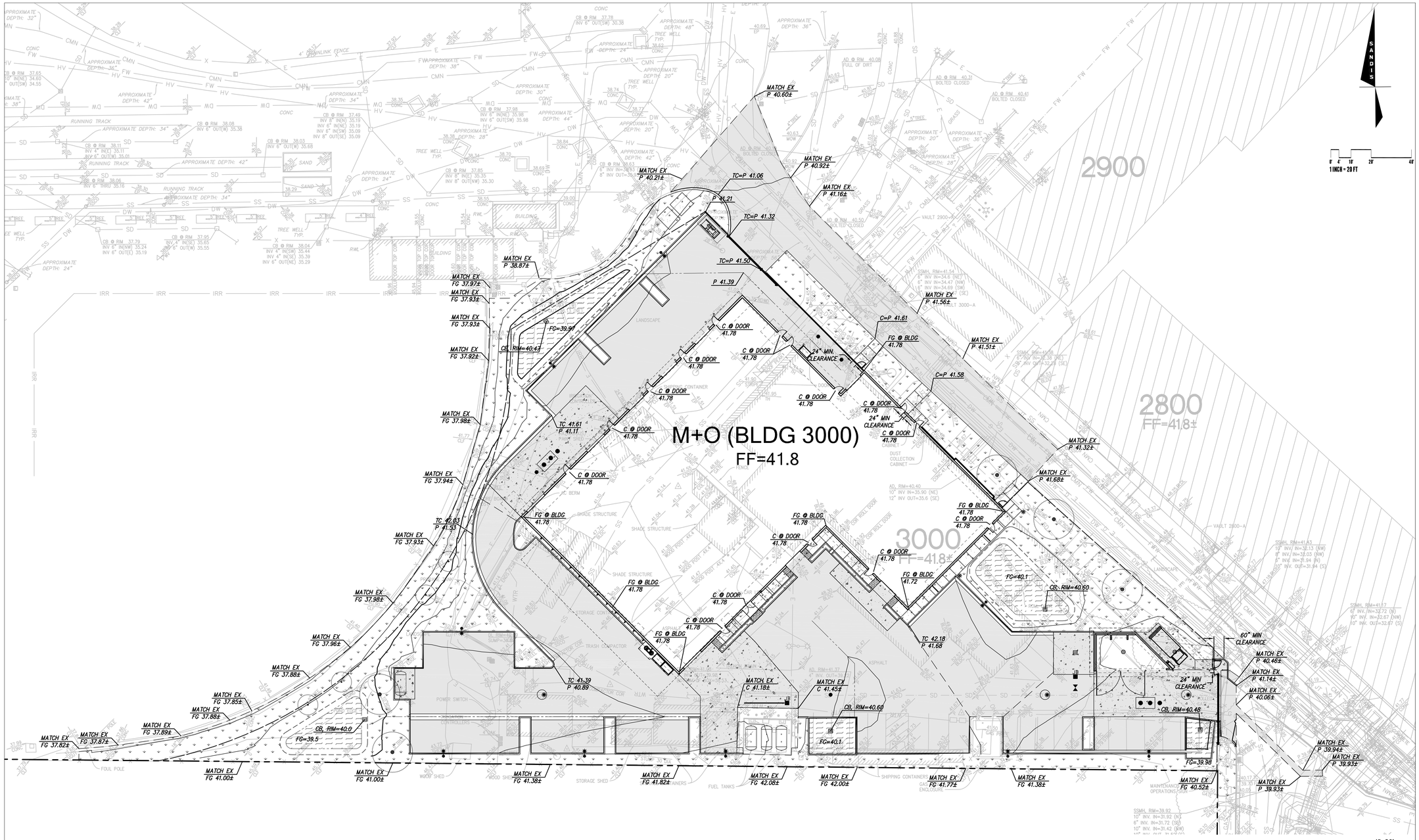
FIRE ACCESS PLAN

C3.20



SITE PREPARATION AND OVER-EXCAVATION IN AREAS OF HARDSCAPE

WHERE LOOSE, SOFT, UNDOCUMENTED FILLS ARE ENCOUNTERED ON SITE, CONTRACTOR SHALL EXCAVATE UNTIL FIRM NATIVE SOIL IS FOUND. LIMITS OF OVER EXCAVATION SHALL BE CONFIRMED IN THE FIELD BY THE GEOTECHNICAL ENGINEER OF RECORD. OVER-EXCAVATED AREAS SHALL BE SCARIFIED, MOISTURE CONDITIONED, AND BACKFILLED IN LIFTS WITH COMPACTED CLASS II AGGREGATE BASE

BUILDING PAD PREPARATION

BUILDING PAD SLAB ON GRADE SHALL BE UNDERLAIN BY A MINIMUM OF 6" THICKNESS OF CLASS II AGGREGATE BASE OR LIME-TREATED SOIL DUE TO MODERATELY EXPANSIVE SUBGRADE SOIL CONDITIONS. CLASS II AGGREGATE BASE SHALL BE COMPACTED TO 90% RELATIVE COMPACTION. LIME-TREATMENT SHALL BE QUICKLIME OR A MULTI-SPECTRUM MIX SUCH AS QUICKLIME PLUS. A 4% MIXTURE OF LIME BASED ON A DRY SOIL UNIT WEIGHT OF 105 PCF IS RECOMMENDED FOR PLANNING PURPOSES BUT FINAL DESIGN SHALL BE COORDINATED WITH GEOTECHNICAL ENGINEER OF RECORD IN FIELD. BUILDING PAD PREPARATION SHALL EXTEND A MINIMUM 3' BEYOND THE PERIMETER OF THE BUILDING FOOTPRINT OR TO THE EXTENTS OF ADJACENT SITE HARDSCAPE, WHICHEVER IS GREATER.

* IN ADDITION TO THE BUILDING PAD, LIME TREATMENT PREPARATION SHOULD OCCUR AT TRASH, ENCLOSURE, TRASH COMPACTOR, PROPANE TANK, GENERATOR AND ANY OTHER EQUIPMENT PADS ONSITE.

LEGEND

- PROPERTY LINE
- SAWCUT LINE
- FLOW LINE
- GRADE BREAK
- AC PAVEMENT (1 / C7.00)
- VEHICULAR CONCRETE (2 / C7.00)
- CONCRETE SIDEWALK, SEE LANDSCAPE PLANS FOR DETAILS
- PLANTING, SEE LANDSCAPE PLANS FOR DETAILS
- BIO-TREATMENT AREA

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Δ	date	issue description

DATE 12/10, 2024

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Exp. 6/30/25
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STATE OF CALIFORNIA

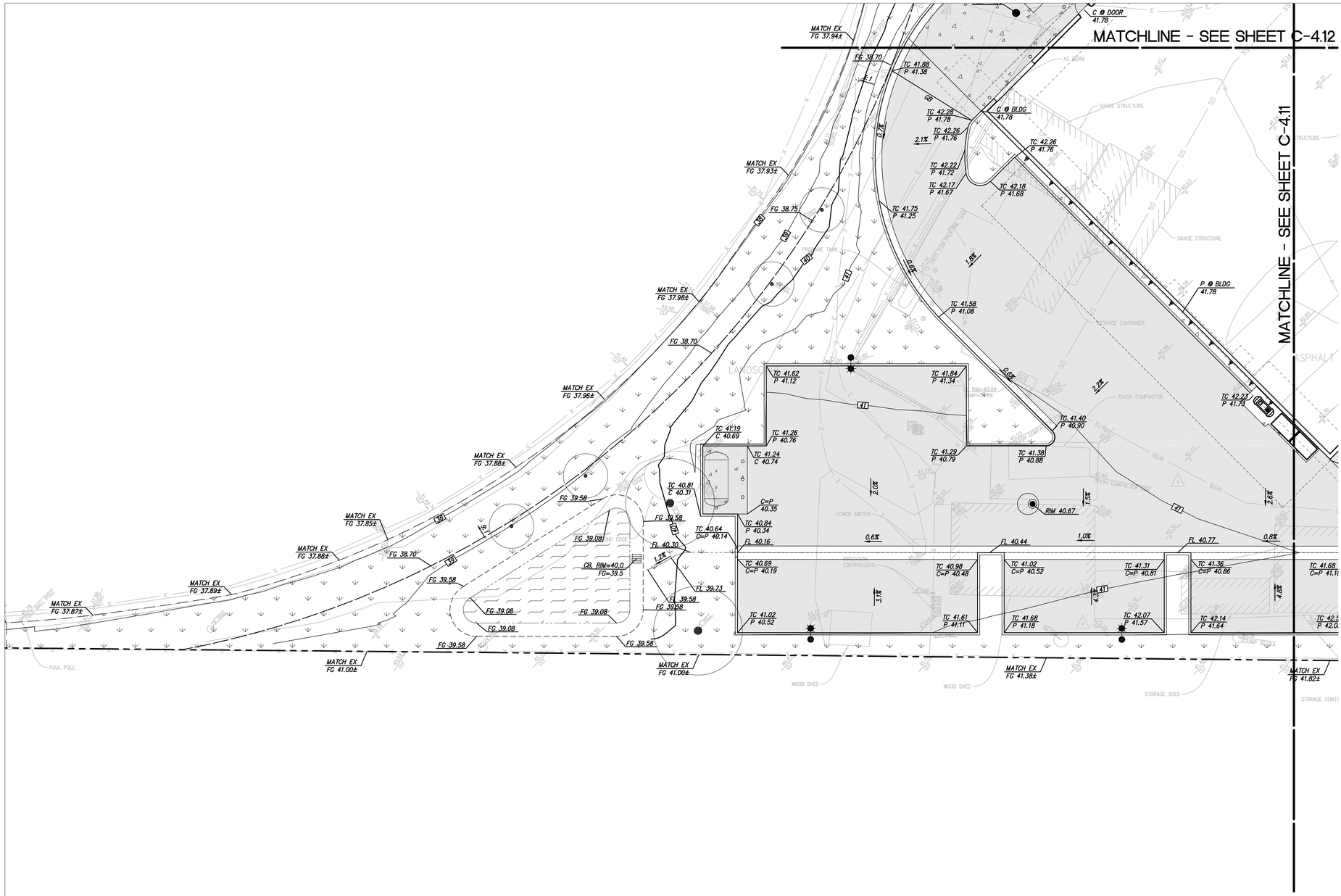
MICHAEL A. KUYKENDALL
R.C.E. NO. 70870, EXPIRES 6-30-25

CHABOT M+O
2555 HESPERIAN BLVD, HAYWARD CA 94545

project number: 20-296
date: DECEMBER 17, 2024

OVERALL GRADING & DRAINAGE PLAN

C4.00



1"=10'

LEGEND

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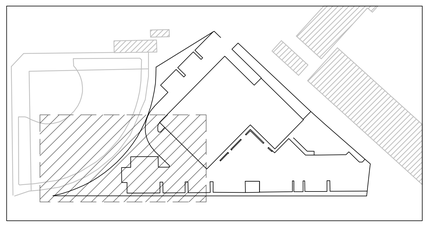
- BIO-TREATMENT AREA

KEY MAP



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File: X:\P\618201.F\4_ENGINEERING\2_PLAN SETS\3_SHEET SET\ONSITE\C4.00.dwg Date:Dec 10, 2024

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⚠	date	issue description

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GRADING & DRAINAGE ENLARGMENT

C4.10

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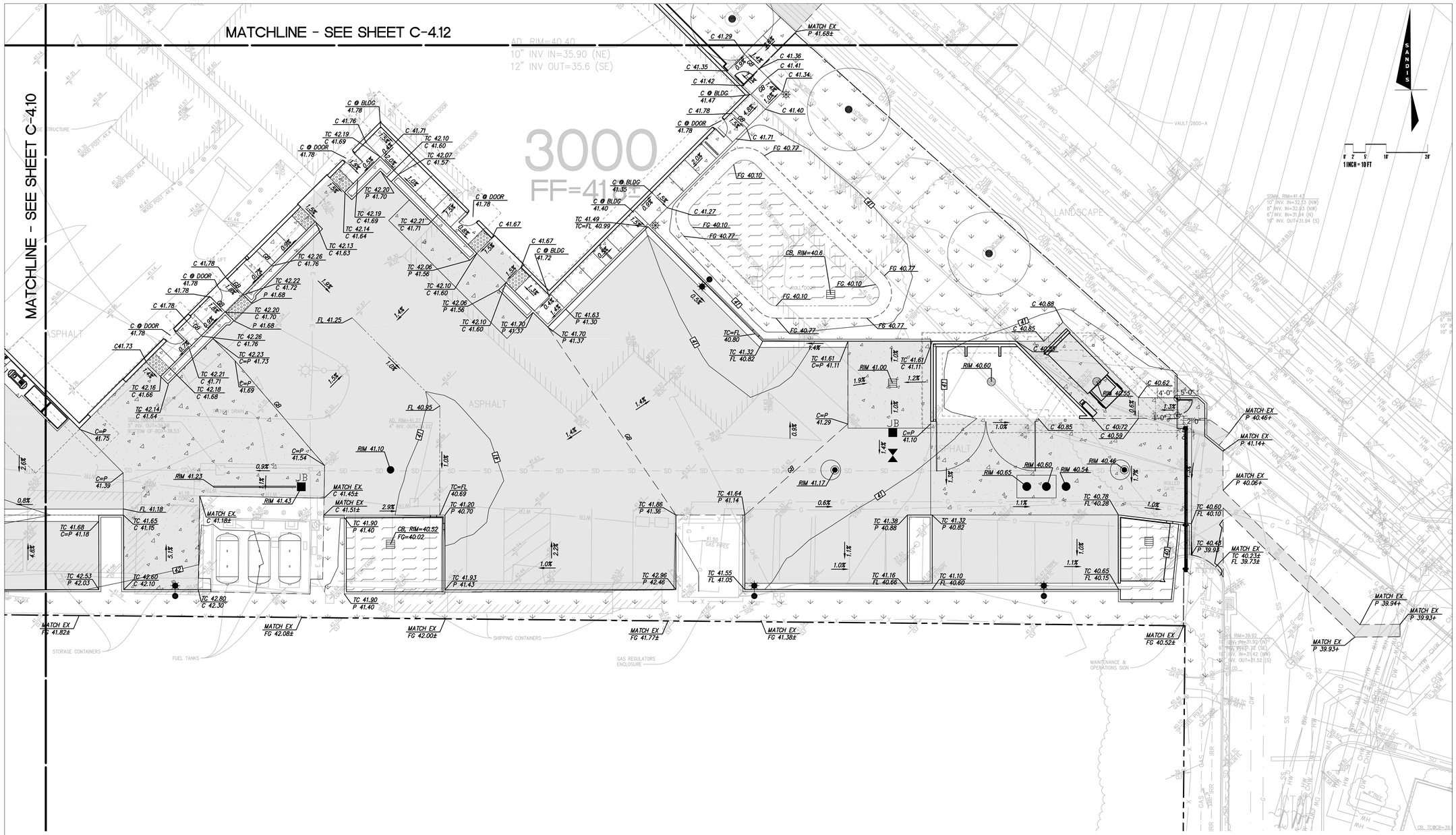
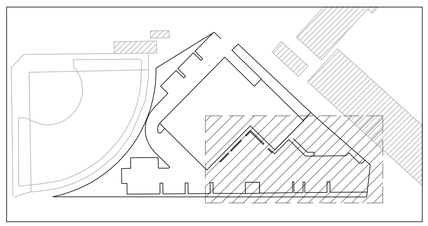


1"=10'

KEY MAP



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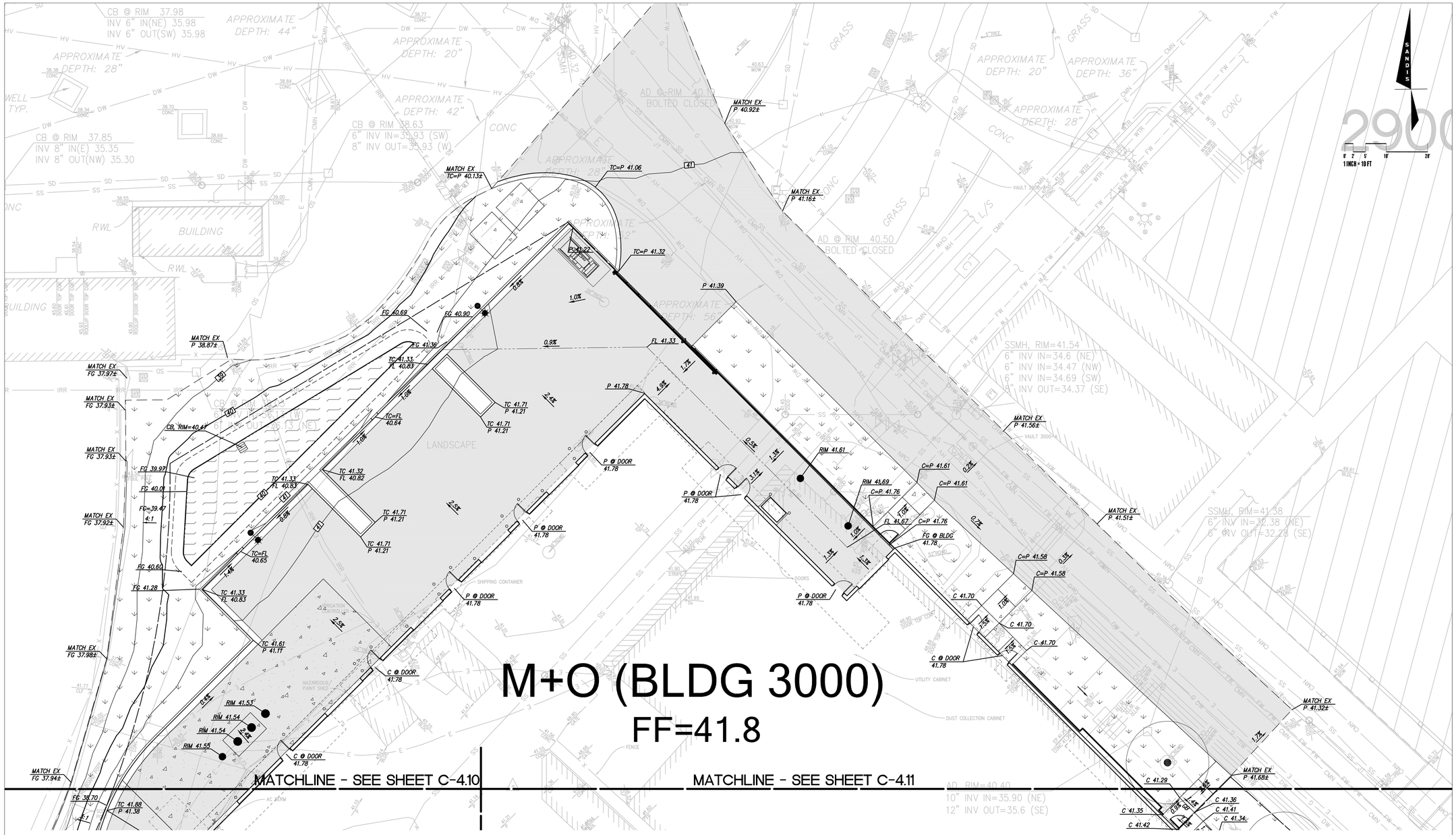
GRADING & DRAINAGE ENLARGMENT

C4.11


M+O (BLDG 3000)
FF=41.8
MATCHLINE - SEE SHEET C-4.10
MATCHLINE - SEE SHEET C-4.11
1"=10'
1 INCH = 10 FT
BUILDING
LANDSCAPE
SHIPPING CONTAINER
HAZARDOUS PAINT SHED
DUST COLLECTION CABINET
UTILITY CABINET
AC BERM
FENCE
CB @ RIM 37.98
INV 6" IN(NE) 35.98
INV 6" OUT(SW) 35.98
CB @ RIM 37.85
INV 8" IN(E) 35.35
INV 8" OUT(NW) 35.30
CB @ RIM 38.63
6" INV IN=35.93 (SW)
8" INV OUT=35.93 (W)
AD @ RIM 40.10
BOLTED CLOSED
AD @ RIM 40.50
BOLTED CLOSED
SSMH, RIM=41.54
6" INV IN=34.6 (NE)
6" INV IN=34.47 (NW)
6" INV IN=34.69 (SW)
8" INV OUT=34.37 (SE)
SSMH, RIM=41.38
6" INV IN=32.38 (NE)
8" INV OUT=32.28 (SE)
AD RIM=40.40
10" INV IN=35.90 (NE)
12" INV OUT=35.6 (SE)
MATCH EX P 40.92±
MATCH EX TC=P 40.13±
TC=P 41.06
MATCH EX P 41.16±
TC=P 41.32
P 41.39
FL 41.33
P 41.78
RIM 41.61
C=P 41.61
C=P 41.61
RIM 41.69
C=P 41.76
C=P 41.76
FL 41.67
FG @ BLDG 41.78
MATCH EX P 41.56±
MATCH EX P 41.51±
C=P 41.58
C=P 41.58
C 41.70
C 41.70
C 41.70
C @ DOOR 41.78
MATCH EX P 41.32±
MATCH EX P 41.68±
C 41.29
C 41.36
C 41.41
C 41.34
C 41.35
C 41.42
P @ DOOR 41.78
P @ DOOR 41.78
P @ DOOR 41.78
P @ DOOR 41.78
P @ DOOR 41.78
C @ DOOR 41.78
MATCH EX FG 38.87±
MATCH EX FG 37.97±
MATCH EX FG 37.93±
MATCH EX FG 37.93±
MATCH EX FG 37.93±
MATCH EX FG 37.92±
MATCH EX FG 37.98±
MATCH EX FG 37.94±
FG 40.69
FG 40.90
TC 41.36
TC 41.33 FL 40.83
TC=FL 40.64
CB RIM=40.47
FG 39.97
FG 40.01
FG=39.47
FG 40.60
FG 41.28
TC 41.33 FL 40.83
TC 41.32 FL 40.82
TC=FL 40.65
TC 41.71 P 41.21
TC 41.71 P 41.21
TC 41.71 P 41.21
TC 41.71 P 41.21
TC 41.71 P 41.21
TC 41.61 P 41.11
TC 41.88 P 41.38
FG 38.70
RIM 41.53
RIM 41.54
RIM 41.54
RIM 41.55
0.6%
1.0%
0.9%
1.7%
4.9%
2.4%
0.5%
1.5%
3.1%
0.2%
0.7%
1.0%
1.3%
1.5%
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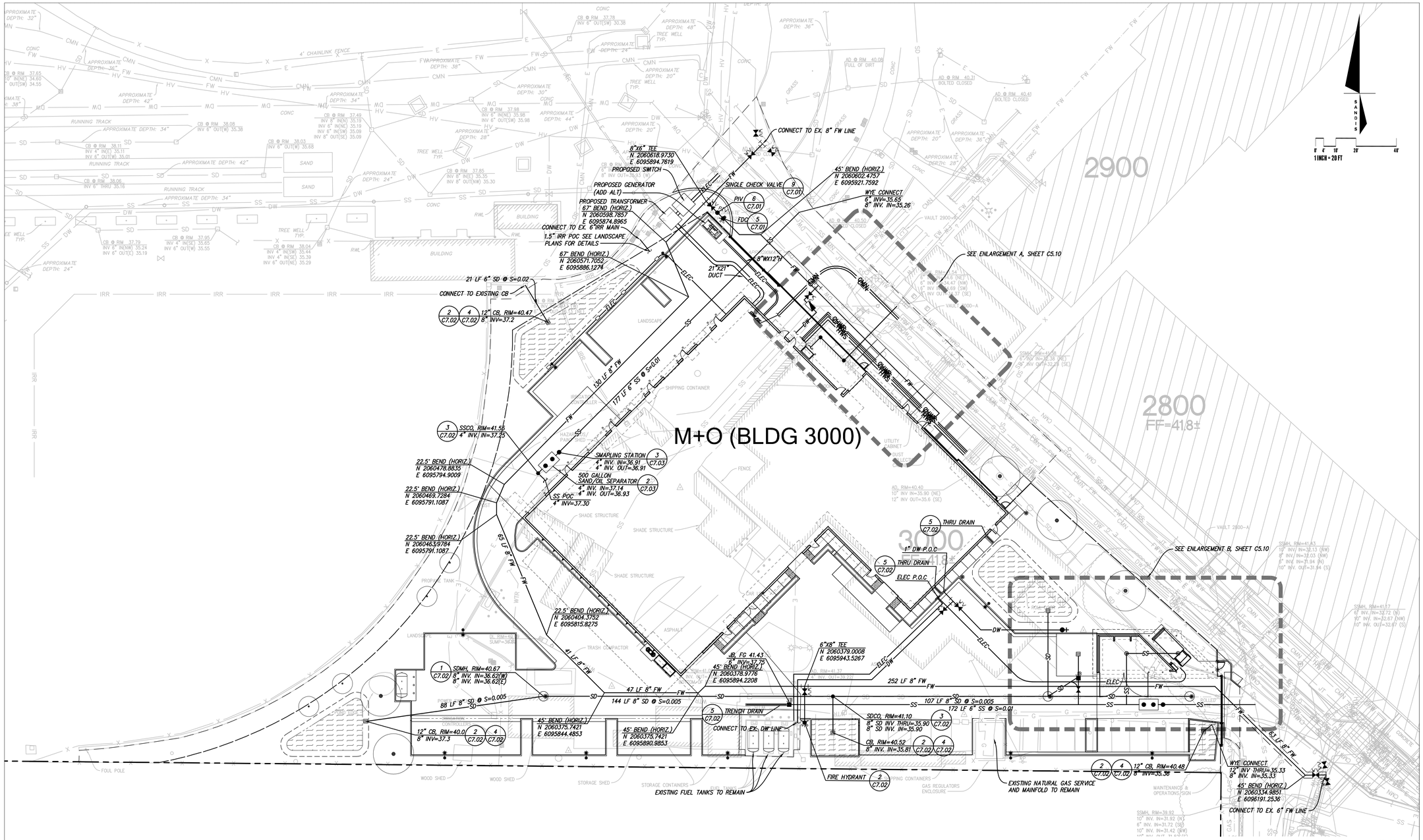

UTILITY NOTES

1. CONTRACTOR TO RECONNECT ALL EXISTING SERVICE LATERALS TO PROPOSED MAINS AND MAINTAIN SERVICE FOR EXISTING BUILDINGS THROUGH DURATION OF CONSTRUCTION.
2. CONTRACTOR TO INCLUDE TRACER WIRES IN ALL WATER MAIN INSTALLATIONS
3. THE CONTRACTOR SHALL PROVIDE THE DISTRICT WITH A DETAILED SCHEDULE FOR ANY SERVICE INTERRUPTIONS AND SHALL NOTIFY THE OWNERS REPRESENTATIVE AT LEAST 48 HOURS PRIOR TO COMMENCING A SHUTDOWN. THE SHUTDOWN PERIOD SHALL NOT EXCEED 24 HOURS.
4. CONSTRUCT SDCO PER DETAIL 5, SHEET C7.02.
5. ALL DOMESTIC WATER AND FIRE WATER LINE BELL AND SPIGOT JOINTS AND FITTINGS INCLUDING; TEES, PLUGS, CAPS, BENDS, REDUCERS, VALVES, AND HYDRANT BRANCHES, SHALL BE MECHANICALLY RESTRAINED PER DETAIL 10, SHEET 7.01
6. PER INFORMATION FROM PG&E THERE ARE NO HIGH-PRESSURE (80 PSI+) NATURAL GAS MAINS WITHIN 1,500 FT OF THE CHABOT COLLEGE CAMPUS AND THE EXTENTS OF THIS PROJECT.
7. SEE DETAIL 1 ON SHEET C7.01 FOR TYPICAL TRENCH BACKFILL & COVER DETAILS.
8. ALL FIRE HYDRANTS SHALL HAVE A 3-FOOT CIRCUMFERENCE OF CLEAR SPACE AND AN 18 INCH CLEARANCE FROM THE CENTER OF THE 4½" DISCHARGE TO FINISHED GRADE LEVEL. CFC 507.5.5
9. THE POST INDICATOR VALVES (PIV) SHALL BE SET SO THAT THE TOP OF THE POST WILL BE 32" TO 40" ABOVE FINISHED GRADE. NFPA 24, 6.3.1
10. ALL FIRE HYDRANTS SHALL BE INSTALLED WITH BREAK-OFF BOLTS AND/OR BREAK-OFF SPOOLS.
11. ALL MECHANICAL JOINTS ON FIRE SERVICE LINES AND FIRE SPRINKLER LATERALS SHALL BE CLEANED AND THOROUGHLY COATED WITH CORROSION RETARDING MATERIAL. NFPA 24, 10.4.1.1

LEGEND

PROPERTY LINE

BIO-TREATMENT AREA

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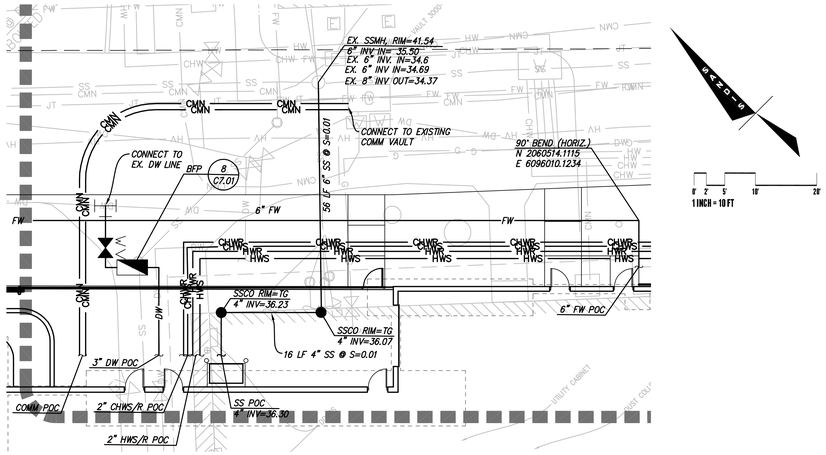
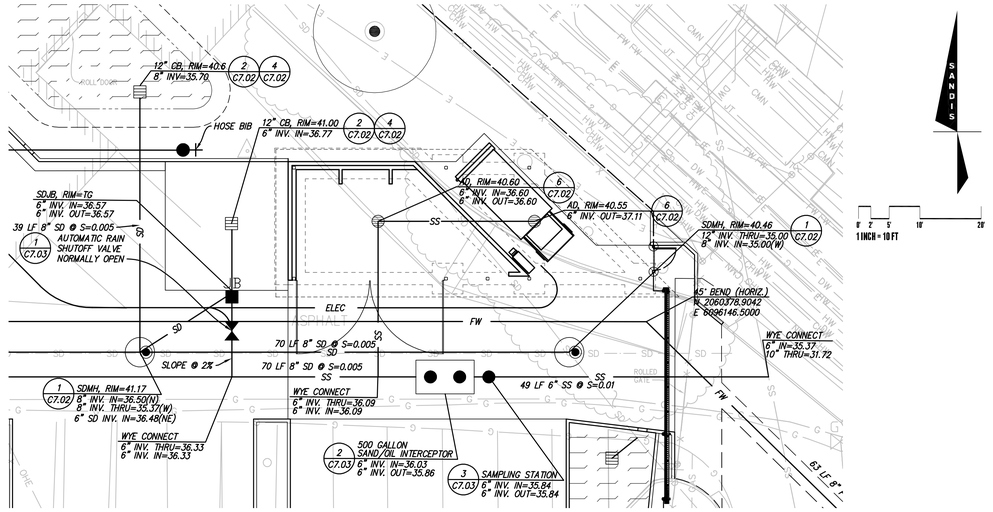
OVERALL UTILITY PLAN

C5.00



UTILITY ENLARGEMENT A

SCALE: 1"=10'



UTILITY ENLARGEMENT B

SCALE: 1"=10'

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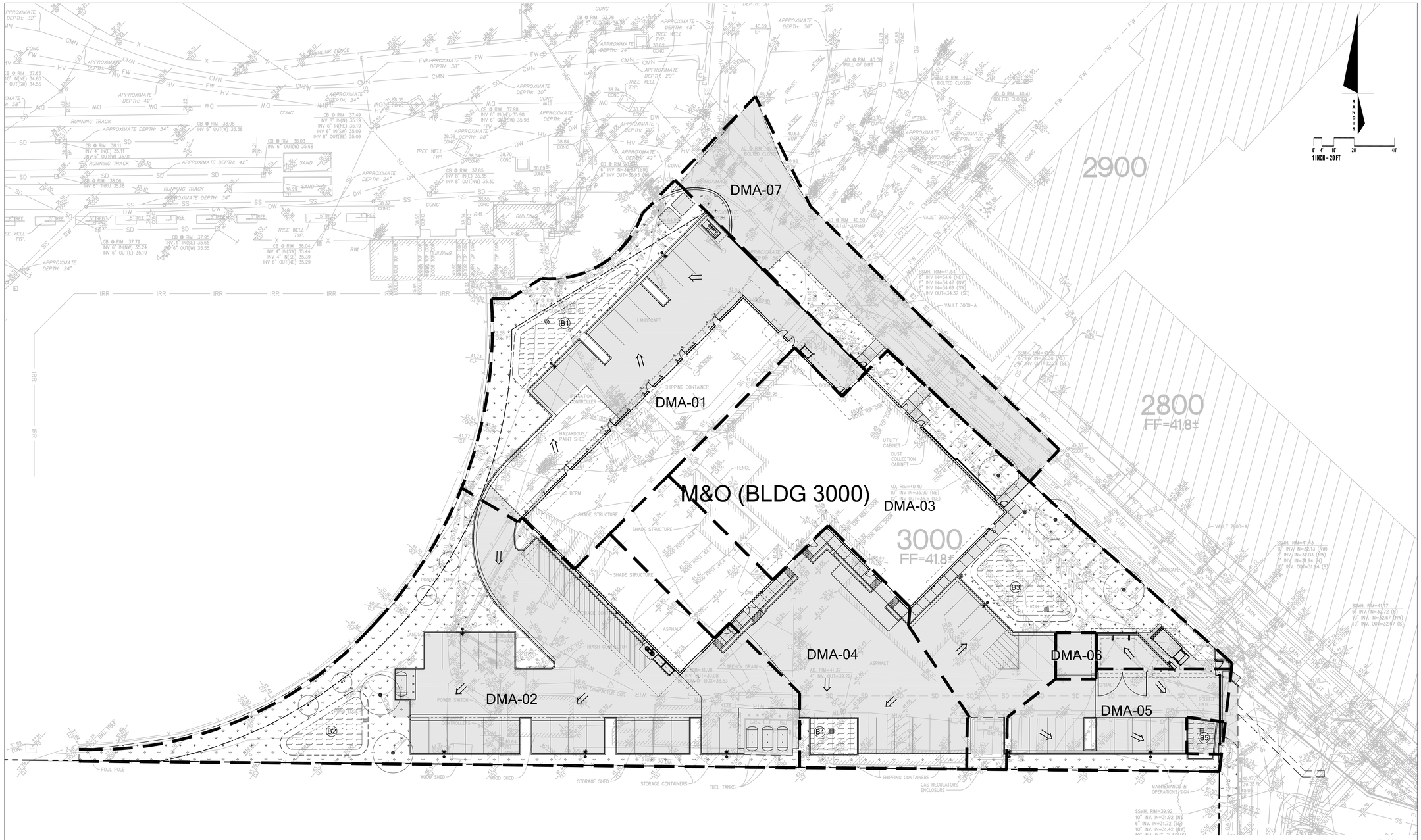
UTILITY ENLARGEMENT

C5.10



STORMWATER TREATMENT MEASURES

AREA ID	IMPERVIOUS AREA (SF)	PERVIOUS AREA (SF)	TOTAL AREA (SF)	REQUIRED BMP AREA (5% IMPERVIOUS AREA)	BMP ID
DMA-1	15550	4714	20327	641	B1
DMA-2	12733	4931	18864	529	B2
DMA-3	15851	4926	20777	654	B3
DMA-4	9958	1026	11055	402	B4
DMA-5	3824	892	4716	157	B5
DMA-6	465	0	465	19	UNTREATED
DMA-7	6559	925	7484	269	UNTREATED

HYDROMODIFICATION NOTE:

THE PROJECT IS EXEMPT FROM HYDROMODIFICATION REQUIREMENTS PER THE ALAMEDA COUNTY C.3 TECHNICAL GUIDANCE DOCUMENT. THE PROJECT IS EXEMPT FROM HYDROMODIFICATION DUE TO THE WATER SHED DRAINING INTO A HARDENED CHANNEL.

SITE TREATMENT AREA NOTE:

THIS PROJECT IS REPLACING MORE THAN 50% OF THE EXISTING IMPERVIOUS AREA AND THEREFORE MUST TREAT THE ENTIRE SITE.

STORMWATER MANAGEMENT NOTES:

1. THIS PLAN PRESENTS METHODS AND CALCULATIONS FOR COMPLYING WITH THE REQUIREMENTS OF PROVISION C.3 OF THE MUNICIPAL REGIONAL STORMWATER PERMIT IN ACCORDANCE WITH THE ALAMEDA COUNTY PROGRAM AND THE CITY OF HAYWARD REQUIREMENTS.
2. THE FOLLOWING TREATMENT MEASURES ARE PROPOSED TO REGULATE THE QUALITY OF STORM WATER LEAVING THE SITE
   - 2.1. BIO-RETENTION AREA – RUNOFF IN THIS AREA IS DIRECTED TO A BIO-RETENTION PLANTER/AREA FOR FILTRATION, INFILTRATION AND EVAPOTRANSPIRATION PRIOR TO EXISTING THE SITE. PLANTING AND SOIL REQUIREMENTS APPLY, SEE DETAIL

LEGEND

- PROPOSED PERVIOUS AREA
- PROPOSED IMPERVIOUS AREA
- BIO-RETENTION AREA
- DRAINAGE AREA BOUNDARY
- FLOW LINE
- FLOW DIRECTION

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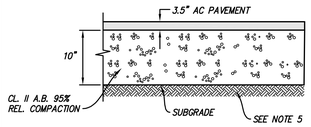
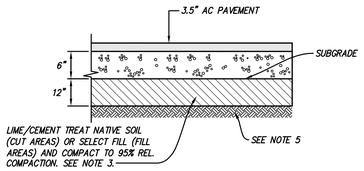
STORMWATER MANAGEMENT PLAN

C6.00

ASPHALT CONCRETE PAVEMENT SECTIONS			
TRAFFIC INDEX	TYPICAL USE	ALTERNATIVE 1	ALTERNATIVE 2
5	PARKING STALL	3 INCHES AC 8 INCHES AB	3 INCHES AC 6 INCHES AB
6	DRIVE AISLE	3.5 INCHES AC 10 INCHES AB	3.5 INCHES AC 6 INCHES AB
7		4 INCHES AC 12 INCHES AB	4 INCHES AC 6 INCHES AB



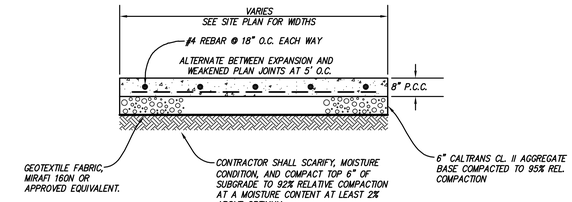
ASPHALT PAVEMENT – ALTERNATIVE 1



ASPHALT PAVEMENT – ALTERNATIVE 2

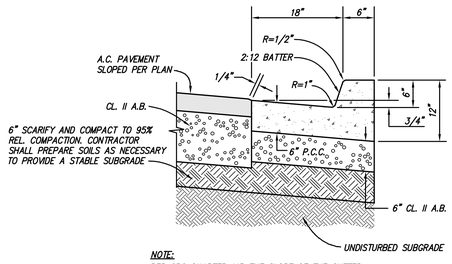
NOTES:
1. THE SECTIONS SHOWN DEPICT ALTERNATIVES FOR DRIVE AISLE CONSTRUCTION ONLY. CONTRACTOR TO REFER TO TABLE FOR PARKING STALL AND TRAINING YARD PAVEMENT OPTIONS AND THICKNESSES.
2. ALTERNATIVE SECTIONS CAN BE CONSTRUCTED AT CONTRACTORS OPTION
3. IF LIME/CEMENT TREATMENT OPTION IS SELECTED, IT SHALL BE CARRIED OUT AS PER PROJECT SPECIFICATIONS. METHOD TO BE REVIEWED AND APPROVED BY PROJECT GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION.
4. SELECT FILL MAY BE EITHER APPROVED ON-SITE MATERIAL TREATED WITH LIME OR IMPORTED MATERIAL. REFER TO PROJECT SPECIFICATIONS FOR SPECIFIC REQUIREMENTS.
5. CONTRACTOR SHALL SCARIFY, MOISTURE-CONDITION, AND COMPACT TOP 8" OF NATIVE SOILS TO 95% RELATIVE COMPACTION.
6. AGGREGATE BASE OR SELECT FILL PLACED UNDER BUILDING PADS TO COMPLY WITH PROJECT SPECIFICATIONS
7. SEG IS SUBGRADE ENHANCEMENT GEOTEXTILE SUCH AS MIRAFI 600X.
8. VEHICLE PAVEMENT HAS BEEN DESIGNED PER GEOTECH RECOMMENDATIONS TO MEET FIRE APPARATUS LOADING.

ASPHALT PAVEMENT SECTION 1
N.T.S.



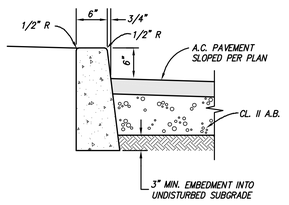
NOTES:
1. FOR EDGE CONDITIONS AT LANDSCAPING, AC, AND BUILDING FACE, SEE DETAIL 7, THIS SHEET.
2. VEHICLE PAVEMENT HAS BEEN DESIGNED PER GEOTECH RECOMMENDATIONS TO MEET FIRE APPARATUS LOADING.

VEHICULAR CONCRETE SECTION 2
N.T.S.



NOTE:
PER CBC CHAPTER 11B THE SLOPE OF THE GUTTER PAN SHALL NOT EXCEED 5% AT ACCESSIBLE RAMPS.

6" CURB WITH 18" GUTTER 3
N.T.S.



6" VERTICAL CURB 4
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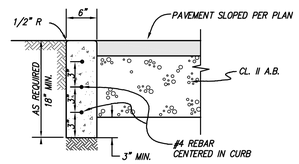
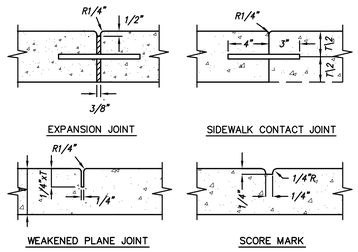
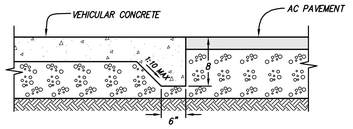


6" FLUSH CURB 5
N.T.S.

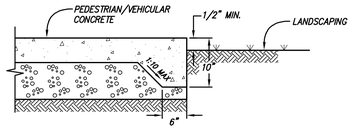


NOTES:
1. ALTERNATE BETWEEN EXPANSION AND WEAKENED PLANE JOINTS AT 5' O.C., TYPICAL ALONG SIDEWALKS.
2. DOWELS TO EXISTING CONCRETE TO BE PLACED AT 12" OC MAX.

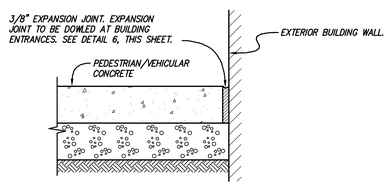
TYPICAL CONCRETE DETAILS 6
1"=3"



VEHICULAR CONCRETE @ AC PAVEMENT

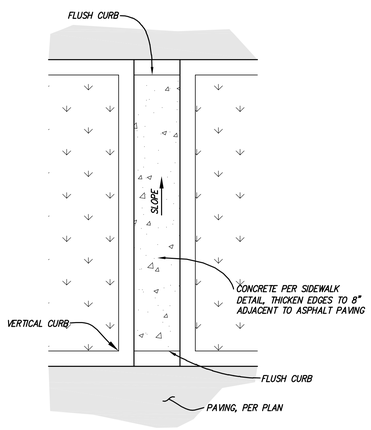


CONCRETE SIDEWALK @ LANDSCAPING



CONCRETE EDGE @ BLDG FACE

CONCRETE EDGE DETAILS 7
N.T.S.



CURB ISLAND SCUPPER 8
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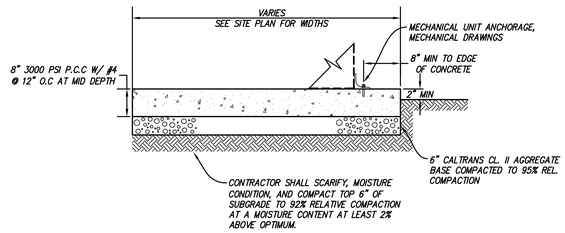
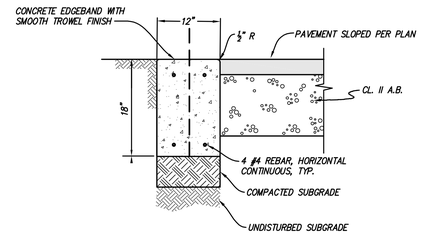


CONCRETE MECHANICAL PAD 9
N.T.S.



12" FLUSH CURB 10
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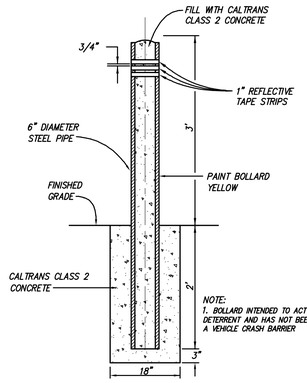
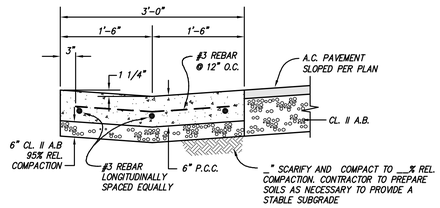
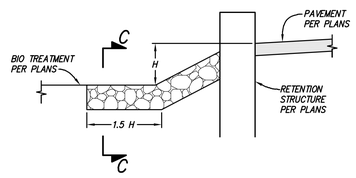


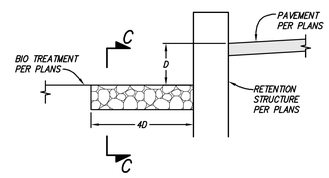
BOLLARD 11
N.T.S.



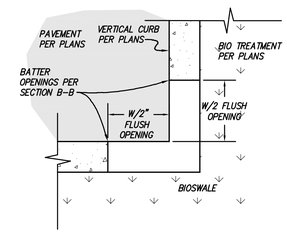
CONCRETE VALLEY GUTTER 12
N.T.S.



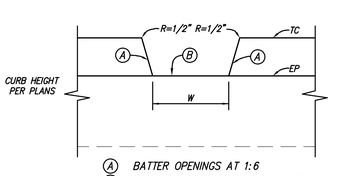
SECTION A–A



ALTERNATE SECTION A–A

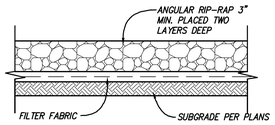


CURB PERFORATION AT CORNER STALLS



SECTION B–B

CURB PERFORATION 13
N.T.S.



SECTION C–C

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APP: 01-121159 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 2/19/2025

CHABOT COLLEGE

CLIENT
CHABOT COLLEGE
25555 HESPERIAN BLVD
HAYWARD, CA 94612

ARCHITECT
HGA
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SANDIS

6	2024.12.17	DSA PC2
5	2024.06.05	DSA PC1
4	2023.10.23	DSA SUBMISSION
3	2023.06.16	50% CONSTRUCTION DOCUMENTS
2	2023.01.18	100% DESIGN DEVELOPMENT
1	2022.02.18	SCHEMATIC DESIGN

	date	issue description

DATE 12/10, 2024

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. KUYKENDALL No. 70870 Exp. 6/30/25 CIVIL STATE OF CALIFORNIA

MICHAEL A. KUYKENDALL
R.C.E. NO. 70870, EXPIRES 6-30-25

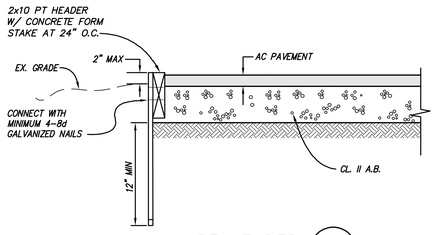
CHABOT M+O
2555 HESPERIAN BLVD, HAYWARD CA 94545

project number: 20-296
date: DECEMBER 17, 2024

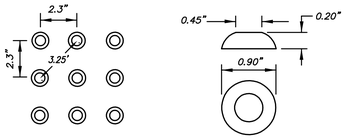
CONSTRUCTION DETAILS

DSA - PRE CHECKED DRAWINGS

C7.00



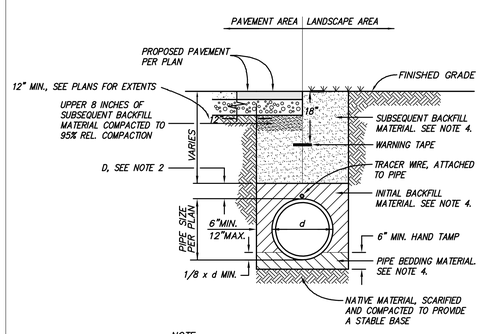
PT HEADER 1
N.T.S.



RAISED TRUNCATED DOME PATTERN

RAISED TRUNCATED DOME

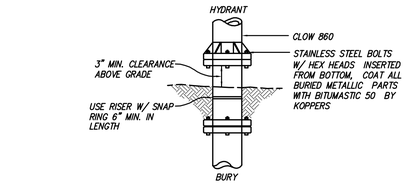
DETECTABLE WARNING SURFACE 2
N.T.S.



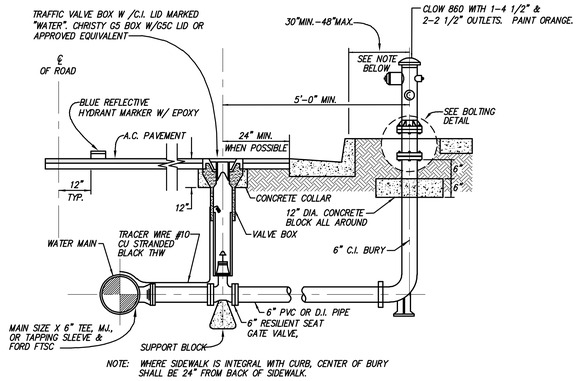
NOTE:
1. PLACE CUT OFF PLUG OF IMPERMEABLE MATERIAL WHERE ALL TRENCHES ENTER A PAVEMENT AREA.
2. D=6" MIN. FOR PIPE SIZES ≤ 12 INCHES
   D=12" MIN. FOR PIPE SIZES > 12 INCHES
3. UNDERGROUND UTILITY TRENCH BACKFILL, UPPER 3' FEET BELOW EXISTING PAVEMENT SECTIONS COMPACTED TO 95% REL. COMPACTION
4. COMPACT BACKFILL AND BEDDING MATERIALS TO THE FOLLOWING PERCENT RELATIVE COMPACTION:
5. REFER TO DETAILS 2 THROUGH 5, SHEET S1.01 FOR TRENCH LOCATIONS WITHIN ZONE OF INFLUENCE OF PROPOSED BUILDING FOOTINGS.

COMPACTION REQUIREMENTS					
	TRENCH SAND	TRENCH GRAVEL	APPROVED NATIVE	IMPORTED FILL	CLASS II AGGREGATE BASE
SUBSEQUENT BACKFILL MATERIAL (UNDER PAVEMENT)	N/A	N/A	90%	90%	95%
SUBSEQUENT BACKFILL MATERIAL (IN LANDSCAPE)	N/A	N/A	85%	85%	85%
INITIAL BACKFILL MATERIAL	90%	90%	N/A	N/A	N/A
BEDDING MATERIAL	90%	90%	N/A	N/A	N/A

TRENCH DETAIL 3
N.T.S.

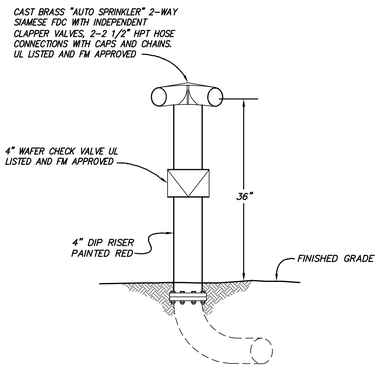


BOLTING DETAIL

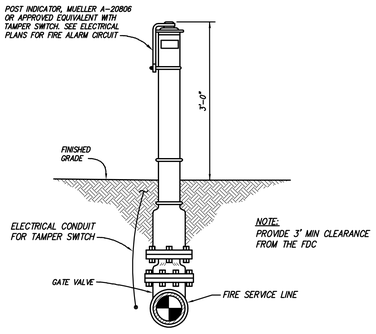


NOTE: WHERE SIDEWALK IS INTEGRAL WITH CURB, CENTER OF BURY SHALL BE 24" FROM BACK OF SIDEWALK.

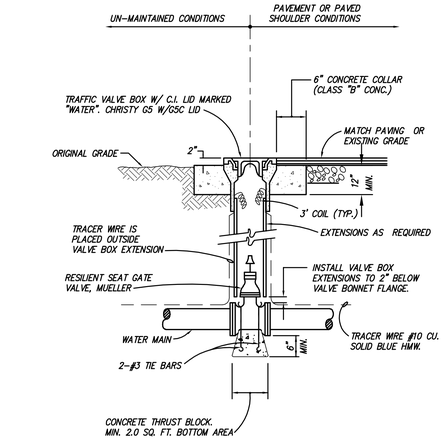
FIRE HYDRANT ASSEMBLY 4
N.T.S.



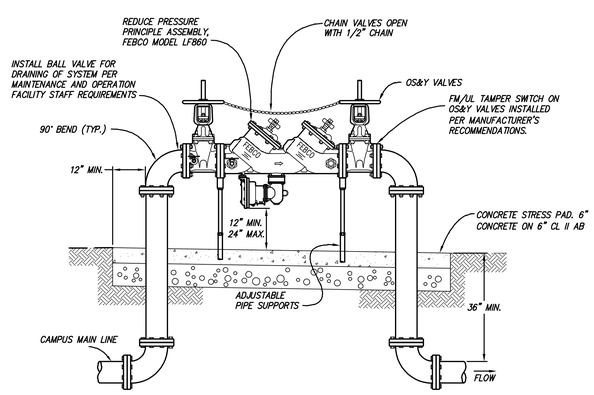
FIRE DEPARTMENT CONNECTION 5
N.T.S.



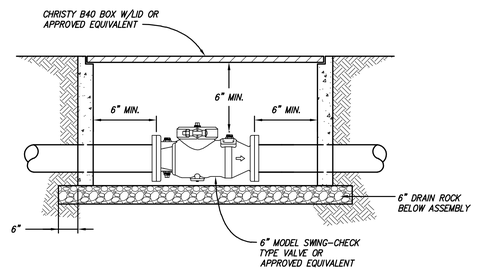
POST INDICATOR ASSEMBLY 6
N.T.S.



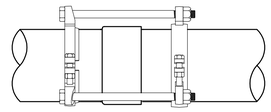
NEW WATER LINE
GATE VALVE CONNECTION DETAIL 7
N.T.S.



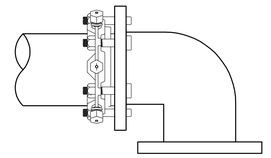
DOMESTIC SERVICE BACKFLOW PREVENTOR 8
N.T.S.



SINGLE CHECK ASSEMBLY 9
N.T.S.



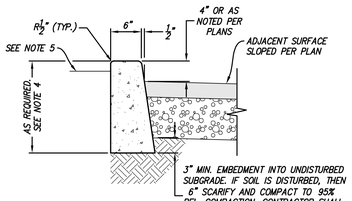
JOINT MECHANICAL RESTRAINT



FITTING MECHANICAL RESTRAINT

NOTES:
1. NOTE: ALL MECHANICAL RESTRAINTS TO BE INSTALLED PER MANUFACTURER SPECIFICATIONS

MECHANICAL JOINT/FLANGE RESTRAINT DETAIL 10
N.T.S.



NOTES:
1. ALL EXPOSED CONCRETE EDGES (HORIZONTAL AND VERTICAL) SHALL BE 1/2" RADIUS.
2. ¢4x12" SLIP DOWELS AND 1/4" EXPANSION JOINTS TO BE PROVIDED AT 20' ON CENTER ALONG THE LENGTH OF CURB. MATERIAL FOR EXPANSION JOINTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION D 1751.
3. REFER TO PLANS FOR ADJACENT PAVEMENT SECTIONS.
4. TOTAL CURB HEIGHT IS BASED ON ADJACENT PAVEMENT SECTION, PLUS CURB HEIGHT PER PLAN, PLUS 3" BELOW FULL PAVEMENT SECTION (12" MINIMUM).
5. SEE PLANS FOR ADJACENT SURFACE MATERIAL AND SLOPE. GRADE SHALL BE FLUSH WITH TOP OF CURB WHEN SURFACE IS PAVED. WHEN ADJACENT TO LANDSCAPING, REFER TO LANDSCAPE PLANS FOR GRADE AT BACK OF CURB.

4" VERTICAL CURB 11
1"=1'

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IDENTIFICATION STAMP
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APP: 01-121159 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 2/19/2025

CHABOT COLLEGE

CLIENT
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25555 HESPERIAN BLVD
HAYWARD, CA 94612

ARCHITECT
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405 14th Street, Suite 500
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SANDIS

DSA - PRE CHECKED DRAWINGS

6	2024.12.17	DSA PC2
5	2024.06.05	DSA PC1
4	2023.10.23	DSA SUBMISSION
3	2023.06.16	50% CONSTRUCTION DOCUMENTS
2	2023.01.18	100% DESIGN DEVELOPMENT
1	2022.02.18	SCHEMATIC DESIGN
⚠	date	issue description

DATE 12/10, 2024

REGISTERED PROFESSIONAL ENGINEER
MICHAEL A. KUYKENDALL
No. 70870
Exp. 6/30/25
CIVIL
STATE OF CALIFORNIA

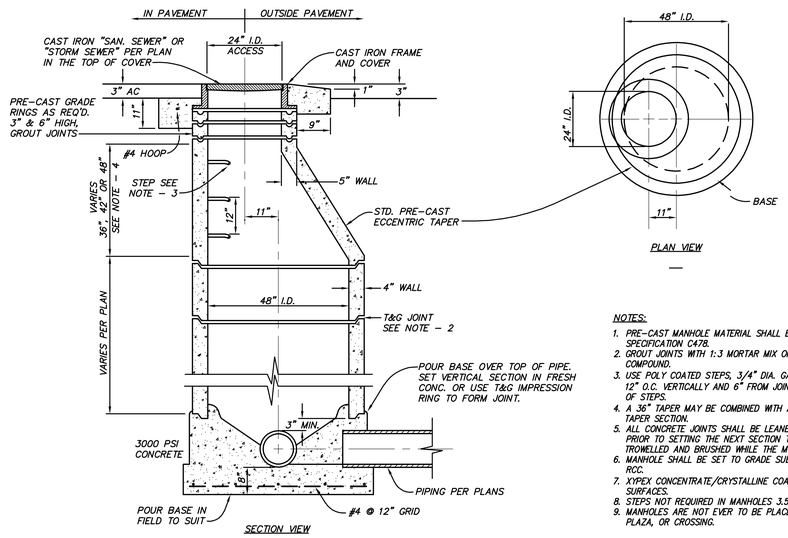
MICHAEL A. KUYKENDALL
R.C.E. NO. 70870, EXPIRES 6-30-25

CHABOT M+O
2555 HESPERIAN BLVD, HAYWARD CA 94545

project number: 20-296
date: DECEMBER 17, 2024

CONSTRUCTION DETAILS

C7.01



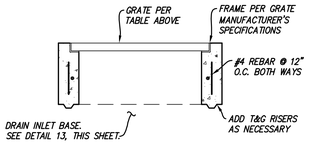
NOTES:

1. PRE-CAST MANHOLE MATERIAL SHALL BE MANUFACTURED TO ASTM SPECIFICATION C478.
2. GROUT JOINTS WITH 1:3 MORTAR MIX OR USE RAM-NEK JOINT COMPOUND.
3. USE POLY COATED STEPS, 3/4" DIA. GALV. STEEL STEPS ARE SPACED 12" O.C. VERTICALLY AND 6" FROM JOINTS. SEE LOCAL CODE FOR USE OF STEPS.
4. A 36" TAPER MAY BE COMBINED WITH A 12" VERTICAL TO FORM A 48" TAPER SECTION.
5. ALL CONCRETE JOINTS SHALL BE LEANED, WETTED, AND MORTARED PRIOR TO SETTING THE NEXT SECTION THE JOINTS SHALL BE PACKED, TROWELLED AND BRUSHED WHILE THE MORTAR IS PLASTIC.
6. MANHOLE SHALL BE SET TO GRADE SUBSEQUENT TO PLACING AC OR RCC.
7. XYPEX CONCENTRATE/CRYSTALLINE COATING ON INTERIOR CONCRETE SURFACES.
8. STEPS NOT REQUIRED IN MANHOLES 3.5 FEET OR LESS IN DEPTH.
9. MANHOLES ARE NOT EVER TO BE PLACED IN PEDESTRIAN WALKWAY, PLAZA, OR CROSSING.

TYPICAL MANHOLE DETAIL 1
N.T.S.

	OLDCASTLE GRATE MODEL NUMBER		
A x B	PEDESTRIAN*	LANDSCAPE / NON-TRAFFIC	H20 RATED
12"x12"	SD-13 12X12	PEDESTRIAN SD-12 12X12	TRAFFIC SD-12 12X12
18"X18"	SD-13 18X18	PEDESTRIAN SD-12 18X18	TRAFFIC SD-12 18X18
24"X24"	SD-13 24X24	PEDESTRIAN SD-12 24X24	TRAFFIC SD-12 24X24
36"X36"	SD-13 36X36	PEDESTRIAN SD-12 36X36	TRAFFIC SD-12 36X36
24"X48"	SD-13 24X48	PEDESTRIAN SD-12 24X48	TRAFFIC SD-12 24X48

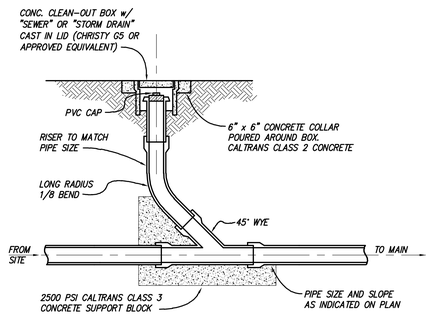
* OR APPROVED EQUIVALENT GRATE WITH 1/4" MAX OPENINGS



NOTES:

1. SEE PLANS FOR CATCH BASIN SIZE AND TYPE.
2. FRAME SHALL BE ANCHORED TO CONCRETE PER MANUFACTURER'S SPECIFICATIONS.
3. FOR JUNCTION BOXES (JB) IN NON-VEHICULAR AREAS ONLY, REPLACE GRATE WITH NON-SLIP SOLID STEEL COVER. ADD "STORM DRAIN" TEXT TO LID.

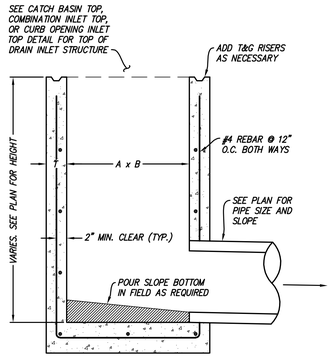
CATCH BASIN TOP 2
1"=1'



CLEANOUT WITH LATERAL STUB 3
N.T.S.

A x B	T	MAX PIPE SIZE	OLDCASTLE MODEL
12"x12"	4"	8"	DI-1212
18"X18"	4"	12"	DI-1818
24"X24"	4"	18"	DI-2424
36"X36"	6"	24"	DI-3636
24"X48"	5"	18",36"	DI-2448
36"X48"	6"	24",36"	DI-3648

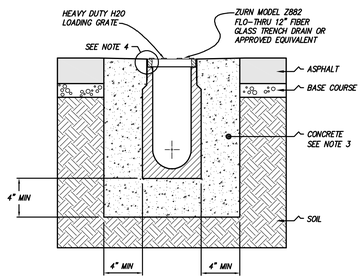
NOTE: MAX SIZES ARE BASED ON PERPENDICULAR CONNECTION



NOTES:

1. SEE PLANS FOR DRAIN INLET SIZE.
2. PRE-CAST DRAIN INLET IS ACCEPTABLE, OLDCASTLE OR APPROVED EQUIVALENT.

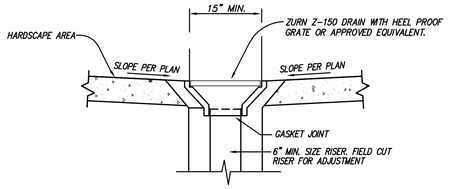
DRAIN INLET BASE 4
1"=1'



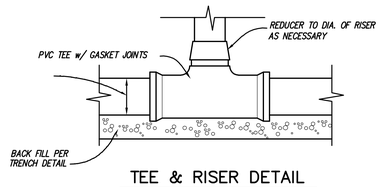
NOTES:

1. ZURN MODEL ZB82 PREFABRICATED TRENCH DRAIN OR APPROVED EQUIVALENT.
2. IT IS NECESSARY TO ENSURE THE MINIMUM DIMENSIONS SHOWN ARE SUITABLE FOR THE EXISTING GROUND CONDITIONS. ENGINEERING ADVICE MAY BE REQUIRED.
3. A MINIMUM CONCRETE STRENGTH OF 4000 PSI IS RECOMMENDED. THE CONCRETE SHOULD BE VIBRATED TO ELIMINATE AIR POCKETS.
4. THE FINISHED LEVEL OF THE CONCRETE SURROUND MUST BE APPROX. 1/8" ABOVE THE TOP OF THE CHANNEL EDGE.

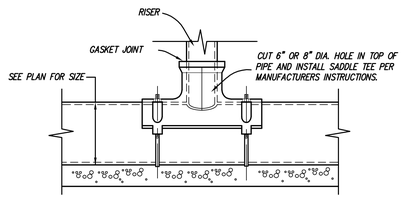
12" TRENCH DRAIN 5
N.T.S.



HARDSCAPE GRATE & RISER DETAIL

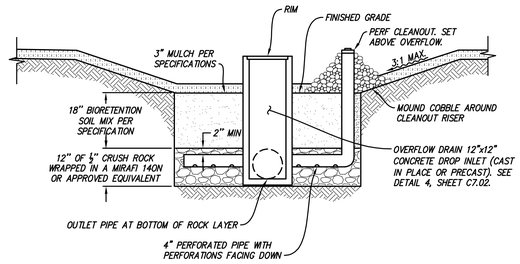


TEE & RISER DETAIL

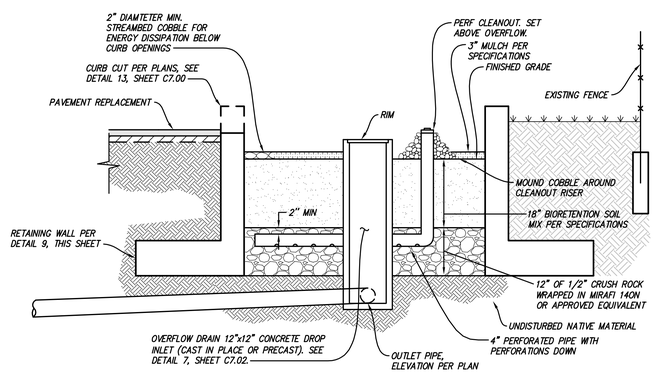


SADDLE & RISER DETAIL

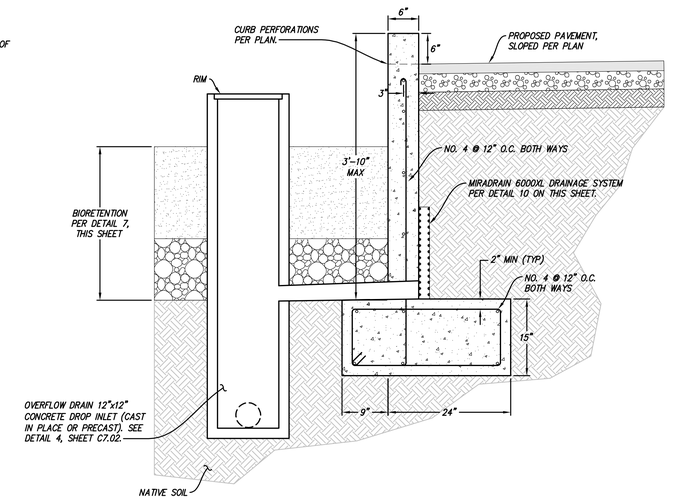
AREA DRAIN 6
N.T.S.



BIORETENTION DETAIL 7
N.T.S.



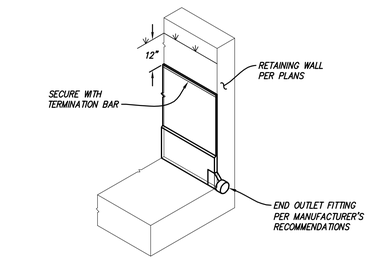
WALLED BIORETENTION DETAIL 8
N.T.S.



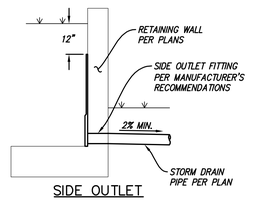
NOTES:

1. CONCRETE MIX TO BE 3,000 PSI AT 28 DAYS.
2. CONSTRUCT CAST-IN-PLACE CONCRETE WALL WITH VARYING HEIGHTS, AS REQUIRED.
3. DESIGN ASSUMPTIONS: ACTIVE PRESSURE OF 35 PCF EFP, PASSIVE PRESSURE OF 480 PCF NEGLECTING UPPER 12" OF BACKFILL, VEHICULSR SURCHARGE OF 250 PSF.

BIORETENTION WALL DETAIL 9
1"=1'



END OUTLET



SIDE OUTLET

NOTES:

1. MIRADRAIN 6000XL OR APPROVED EQUIVALENT VERTICAL DRAINAGE MEMBRANE FASTENED TO WALL PER MANUFACTURER'S RECOMMENDATIONS.

RETAINING WALL DRAINAGE 10
1"=2'

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CHABOT COLLEGE

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DSA - PRE CHECKED DRAWINGS

6	2024.12.17	DSA PC2
5	2024.06.05	DSA PC1
4	2023.10.23	DSA SUBMISSION
3	2023.06.16	50% CONSTRUCTION DOCUMENTS
2	2023.01.18	100% DESIGN DEVELOPMENT
1	2022.02.18	SCHEMATIC DESIGN
⚠	date	issue description

DATE 12/10, 2024

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. KUYKENDALL No. 70870 Exp. 6/30/25 CIVIL STATE OF CALIFORNIA

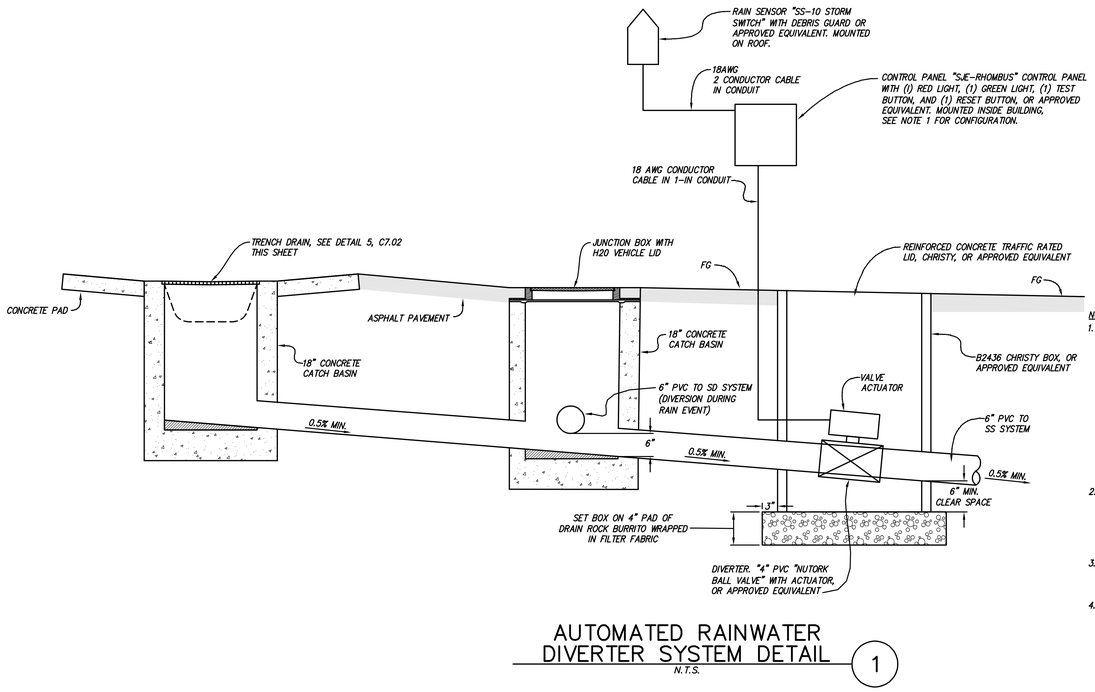
MICHAEL A. KUYKENDALL
R.C.E. NO. 70870, EXPIRES 6-30-25

CHABOT M+O
2555 HESPERIAN BLVD, HAYWARD CA 94545

project number: 20-296
date: DECEMBER 17, 2024

CONSTRUCTION DETAILS

C7.02

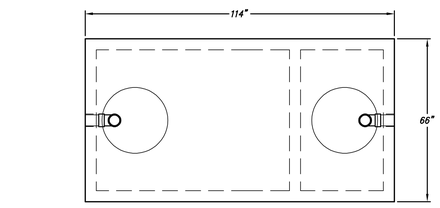


NOTES:

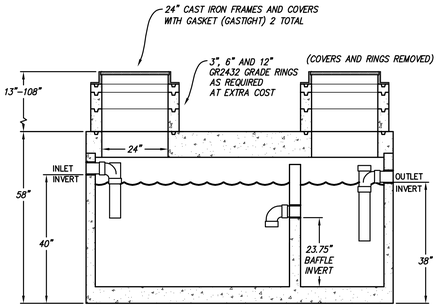
1. CONTROL PANEL SHALL HAVE THE FOLLOWING MODES:
   - A. NORMAL MODE: VALVE IN THE OPEN POSITION WITH GREEN INDICATOR LIGHT LIT ON CONTROL PANEL
   - B. EVENT MODE: VALVE IN THE CLOSED POSITION WITH RED INDICATOR LIGHT LIT ON CONTROL PANEL. EVENT MODE IS TRIGGERED WHEN RAIN SENSOR HAS DETECTED 0.1-INCH OF RAIN. EVENT MODE ENDS AFTER THE LAST 0.01-INCH OF RAIN HAS FALLEN.
   - C. TRAVEL MODE: VALVE NOT FULLY OPEN OR FULLY CLOSED WITH RED AND GREEN LIGHTS BLINKING ALTERNATELY.
2. BUTTON CONFIGURATION:
   - A. TEST BUTTON: SETS THE VALVE IN THE CLOSED POSITION.
   - B. RESET BUTTON: SETS THE VALVE IN THE OPEN POSITION.
3. CONTROL PANEL SHALL CYCLE THE VALVE CLOSED/OPEN IF NO RAIN EVENT HAS OCCURRED IN 7 DAYS.
4. CONTROL PANEL SHALL HAVE VISUAL INDICATION FOR THE FOLLOWING:
   - A. TIME SINCE LAST STORM EVENT
   - B. CONTINUOUS RAINFALL INDICATION
   - C. TIME AND DATE

AUTOMATED RAINWATER DIVERTER SYSTEM DETAIL 1

N.T.S.



TOP VIEW



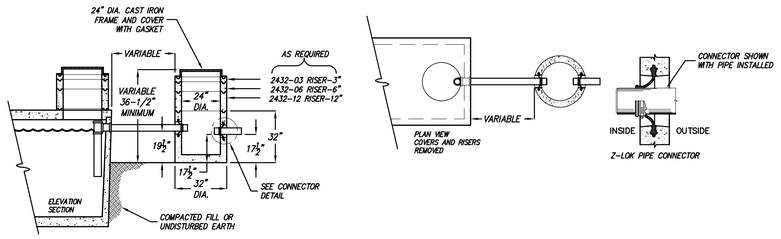
SIDE SECTION VIEW

NOTE:

1. PREPARE SUB-BASE PER MANUFACTURES RECOMMENDATIONS.
2. DETAIL SHOWN IS A FOR A JENSEN PRECAST 500 GALLON SAND OIL INTERCEPTOR. DIMENSIONS MAY VARY DEPENDING ON MANUFACTURER.

SAND-OIL INTERCEPTOR 2

N.T.S.



NOTE:

1. PREPARE SUB-BASE PER MANUFACTURES RECOMMENDATIONS.
2. DETAIL SHOWN IS A FOR A JENSEN PRECAST 24" SAMPLING STATION. DIMENSIONS MAY VARY DEPENDING ON MANUFACTURER.

24" DIA. SAMPLE BOX WITH PIPE CONNECTORS 3

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CONSTRUCTION DETAILS

C7.03

SHEET LIST TABLE

Sheet Number	Sheet Title
L0.1	LANDSCAPE NOTES
L1.1	TREE PRESERVATION PLAN
L2.1	PLANTING PLAN
L3.1	IRRIGATION PLAN
L3.2	IRRIGATION NOTES & LEGEND
L3.3	IRRIGATION DETAILS
L3.4	IRRIGATION WATER CALCULATIONS
L4.1	CONSTRUCTION DETAILS
L4.2	CONSTRUCTION DETAILS

PLANTING NOTES

GENERAL

1. ALL WORK SHALL BE PERFORMED BY PERSONS FAMILIAR WITH PLANTING WORK AND UNDER THE SUPERVISION OF A QUALIFIED PLANTING FOREMAN.
2. ALL QUANTITIES AND PLANT COUNTS ARE FOR THE CONVENIENCE OF THE CONTRACTOR. IN CASE OF DISCREPANCIES, THE PLAN SHALL GOVERN.
3. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO MAKE SUBSTITUTIONS, ADDITIONS, AND DELETIONS IN THE PLANTING SCHEME AS THEY FEEL NECESSARY WHILE WORK IS IN PROGRESS, UPON APPROVAL BY THE OWNER. SUCH CHANGES ARE TO BE ACCOMPANIED BY EQUITABLE ADJUSTMENTS IN THE CONTRACT PRICE, WHEN NECESSARY.
4. PLANT MATERIAL LOCATIONS SHOWN ARE DIAGRAMMATIC AND MAY BE SUBJECT TO CHANGE IN THE FIELD BY THE LANDSCAPE ARCHITECT. PLANT LOCATIONS ARE TO BE ADJUSTED IN THE FIELD AS NECESSARY TO SCREEN UTILITIES, BUT SHALL NOT BLOCK WINDOWS, BLOCK SIGNS NOR IMPEDE ACCESS.
5. THE DESIGN INTENT OF THE PLANTING PLAN IS TO ESTABLISH AN ATTRACTIVE MATURE LANDSCAPE APPEARANCE. FUTURE PLANT GROWTH WILL NECESSITATE TRIMMING, SHAPING, AND IN SOME CASE REMOVAL OF TREES AND SHRUBS AS AN ON-GOING MAINTENANCE PROCEDURE.
6. ALL PLANTING AREA MUST BE IRRIGATED WITH AUTOMATIC IRRIGATION SYSTEM. IRRIGATION SYSTEM SHALL BE FULLY AUTOMATED AND OPERATIONAL WITH FULL COVERAGE PRIOR TO PLANTING.
7. CONTRACTOR TO REVIEW ALL EXISTING, PROPOSED, & AS BUILT UTILITY PLANS PRIOR TO CONSTRUCTION. CONTRACTOR TO TAKE PRECAUTIONS IN EXCAVATION OF ALL TREE PLANTING PITS. CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT OF ANY CONFLICTS FOUND DURING CONSTRUCTION.
8. CONTRACTOR MUST REVIEW ALL PLANS PRIOR TO THE BEGINNING OF CONSTRUCTION AND MAINTAIN THE FOLLOWING CLEARANCES FOR ALL TREE PLANTINGS. CONTRACTOR TO TAKE PRECAUTION IN ALL EXCAVATION ACTIVITY. NOTIFY LANDSCAPE ARCHITECT OF ANY CONFLICTS PRIOR TO INSTALLATION.
   - FIRE HYDRANTS AND PIVS: 10' MINIMUM
   - LIGHT POLES: 15' MINIMUM
   - UNDERGROUND UTILITIES: 10' MINIMUM
   - BUILDING ROOF EDGE: 5' MINIMUM
9. CONTRACTOR TO PROVIDE AND ARRANGE FOR PLANT MATERIAL THRU CONTRACT GROW, PLANT BROKERS, OR DIRECT PURCHASE AS REQUIRED FOR THE FULL IMPLEMENTATION OF THE PROJECTS PLANTING PLAN. CONTRACTOR MUST SUBMIT WITHIN 30 DAYS AFTER AWARD OF A BID A DETAILED NURSERY LIST OF SECURED PLANT MATERIAL, CONTRACT GROW PLANT MATERIAL, AND ANY SUBSTITUTION REQUESTS. CONTRACTOR SHALL ARRANGE AND SECURE ALL PLANT MATERIAL WITHIN 30 DAYS OF BID. UPON DELIVERY, PLANT MATERIAL THAT DOES NOT MEET NURSERY STANDARDS, IS ROOTBOUND, OF POOR QUALITY & HEALTH, SUBSTANDARD SIZE, AND / OR IS NOT APPROVED BY THE LANDSCAPE ARCHITECT SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. MATERIAL WHICH IS NOT SECURED AND IS UNAVAILABLE IN THE SIZE SPECIFIED SHALL BE UP-SIZED, IF AVAILABLE. ALL REPLACEMENT MATERIAL, SUBSTITUTIONS OR UP-SIZED PLANT MATERIAL MUST BE PROVIDED AS REQUIRED FOR THE FULL IMPLEMENTATION OF THE PLANTING PLAN AT NO ADDITIONAL COST TO THE CONTRACT AND OWNER.
10. PROCUREMENT OF PLANT MATERIAL SHALL NOT BE LIMITED TO NORTHERN CALIFORNIA. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRUCKING, INSPECTIONS, AND INCIDENTALS FOR PROVIDING PLANT MATERIAL FROM SOURCES OUT OF STATE AS REQUIRED BY THE PROJECT PLANTING PLAN.

EXISTING PLANT MATERIAL

1. ALL EXISTING PLANT MATERIAL, TREES, TO REMAIN MUST BE PROTECTED AND MAINTAINED IN PLACE BY THE CONTRACTOR.
2. ANY DAMAGED MATERIAL MUST BE FULLY REPLACED TO MATCH EXISTING BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT AND OWNER.
3. CONTRACTOR MUST MAINTAIN ANY EXISTING IRRIGATION SYSTEMS OR PROVIDE TEMPORARY IRRIGATION SYSTEMS AS REQUIRED TO ALL EXISTING PLANTING AREAS TO REMAIN.

SOILS

1. STRIP 12'OF ON-SITE TOPSOIL, STOCKPILE, PROTECT AND REUSE FOR PLANTING PER SOIL REPORT RECOMMENDATIONS. ADDITIONAL TOPSOIL REQUIRED FOR FUTURE CONSTRUCTION TO BE ACQUIRED FROM STOCKPILED SOIL ON SITE (CONSULT WITH CHABOT COLLEGE'S MAINTENANCE & OPERATIONS DEPARTMENT) EXISTING SOILS SHALL BE TESTED PRIOR TO STOCKPILE FOR SOILS SUITABILITY PER THE REQUIREMENTS BELOW.
3. ALL ORGANIC COMPOST SHALL HAVE AN AGRICULTURAL SUITABILITIES TEST FOR COMPATIBILITY TO EXISTING SITE SOILS. TEST RESULTS SHALL BE DATED WITHIN THE LAST 3 MONTHS OF THE SUBMITTAL.
4. ALL EXISTING SITE SOILS SHALL HAVE AN AGRICULTURAL SUITABILITIES TEST BY AN APPROVED SOILS TESTING LAB (WAYPOINT ANALYTICAL OR APPROVED EQUAL) AND ANALYSIS FOR RECOMMENDATIONS ON ORGANIC COMPOST, AMENDMENTS, GRO POWER FERTILIZER AND ANY INCIDENTALS. RECOMMENDATIONS CONTAINED IN THE SOILS ANALYSIS RESULTS ARE TO BE IMPLEMENTED BEFORE PLANTING OCCURS. CONTRACTOR SHALL PROVIDE UP TO 4 COMBINED TESTS AT LOCATIONS SELECTED BY THE LANDSCAPE ARCHITECT. SOIL SAMPLES TO BE TAKEN AND COMBINED FROM A DEPTH OF 6" AND 24". PROVIDE ADDITIONAL TESTING (ONE 6" AND ONE 24" DEPTH TEST PER 25,000 SF FOR AREAS WHICH WERE LIME TREATED). THE ORGANIC COMPOST TEST RESULTS LISTED ABOVE SHALL BE SUBMITTED TO THE SOILS LAB FOR ACCURATE RECOMMENDATIONS OF THE SOIL AMENDMENT REQUIREMENTS. TEST RESULTS SHALL BE TAKEN AFTER ALL GRADING OPERATIONS ARE COMPLETE.
5. ALL LIME TREATED SOILS IN AREAS TO RECEIVE PLANTING SHALL BE FULLY REMOVED AND REPLACED WITH CLEAN APPROVED IMPORT TOP SOIL AT NO COST TO THE OWNER. AN ADDITIONAL 8 SOILS TESTS MAY BE REQUESTED BY THE LANDSCAPE ARCHITECT. ALL TESTING SHALL BE PAID FOR BY THE CONTRACTOR.
6. ALL SOILS IMPORTED ONTO THE SITE FOR ANY PURPOSE SUCH AS GRADING, NON EXPANSIVE FILL, FILL, OR FOR ANY GENERAL PURPOSE MUST BE TESTED FOR PLANT SUITABILITY PRIOR TO PLACEMENT. ALL IMPORT SOILS SHALL BE NON-DETRIMENTAL TO PLANT MATERIAL AND SOILS ANALYSIS SUBMITTED TO THE LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL. PROVIDE 1 TEST PER 500 CY OF MATERIAL.
7. ALL IMPORT SOILS SHALL BE FREE OF DELETERIOUS MATERIALS, AGGREGATES, AND ROCK. IMPORT SOIL SHALL BE LOAM/ CLAY LOAM WITH A PH BETWEEN 6 AND 7.5. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS
8. FOR BID PURPOSES AMEND ALL SOIL WITH 6 YARDS OMRI COMPOST, 50LBS GYPSUM, 20LBS SOIL SULFUR AND 160LBS OF GRO-POWER PLUS 5-3-1 W/ M PER 1000SF. CONTRACTOR TO SUBMIT ALL DELIVERY TICKETS FOR COMPOST AND FERTILIZERS FOR VERIFICATION.
9. SOIL IS TO BE AMENDED, AT THE RATE INDICATED BY THE SOIL ANALYSIS, TO BRING THE SOIL ORGANIC MATTER CONTENT TO A MINIMUM OF 3.5% BY DRY WEIGHT, AND A MINIMUM OF 2" OF QUALITY RECYCLED COMPOST, ON ALL PLANTING AREAS.
10. ALL PLANTERS IN AREAS WHICH HAVE BEEN COMPACTED, SUCH AS CONSTRUCTION STAGING AREAS AND IN PARKING LOTS, SHALL BE CROSS RIPPED TO THE FOLLOWING DEPTHS: PLANTERS LESS THAN THREE (3) FEET WIDE SHALL HAVE COMPACTION RELIEVED TO A MINIMUM DEPTH OF TWENTY-FOUR (24) INCHES BELOW SUBGRADE. PLANTERS THREE TO TEN (3-10) FEET WIDE MUST HAVE COMPACTION RELIEVED TO A MINIMUM DEPTH OF 18" BELOW SUBGRADE, PLANTERS MORE THAN 10' WIDE SHALL HAVE COMPACTION RELIEVED TO A MINIMUM DEPTH OF 12" BELOW SUBGRADE. AREAS SHALL BE PROTECTED AFTER DECOMPACTION.
11. CONTRACTOR SHALL PERFORM A PERCOLATION TEST AT THE BEGINNING OF CONSTRUCTION AT 1 LOCATION PER ACRE (MAX OF 4) TO DETERMINE THE DRAINAGE CAPACITY OF THE EXISTING SITE SOIL FOR TREE HEALTH. NOTIFY THE LANDSCAPE ARCHITECT IF DRAINAGE IS LESS THAN 2" PER HOUR.

TREES

1. ALL TREES SHALL BE STANDARDS UNLESS SPECIFICALLY NOTED.
2. ALL TREES ARE TO BE STAKED AS SHOWN ON THE TREE STAKING/GUYING DIAGRAMS. BRANCHING HEIGHT OF TREES SHALL BE A 6'-0" MINIMUM ABOVE FINISH GRADE. ALL TREES IN A FORMAL GROUP PLANTING MUST BE MATCHING IN SIZE AND SHAPE. ALL STREET TREES TO BE INSTALLED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE OWNER. LANDSCAPE ARCHITECT SHALL BE CONSULTED REGARDING ORIENTATION OF TREES PRIOR TO PLANTING AND/OR BACKFILLING.
3. PLANT TREES 3'-0" MINIMUM FROM FACE OF CURB AT PARKING, AND FROM EDGES OF PAVING. ALL TREES WITHIN 5' OF PAVING AREAS AND BUILDINGS MUST HAVE ROOT BARRIERS INSTALLED. SEE ROOT BARRIER DETAIL. DEEP ROOT BARRIER MODEL NO. UB.24.2. (415) 344-1464. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
4. PROVIDE 4" BERM AROUND TREE FOR WATER BASIN. SEE TREE STAKING DETAIL. BERM TO BE REMOVED IN LAWN AREA AFTER INITIAL MAINTENANCE PERIOD. MULCH TREE WELL WITH 3" LAYER OF RECYCLED CHIPPED MULCH. KEEP MULCH AWAY FROM TREE TRUNK. HOLD LAWN AND HYDROSEED 2' CLEAR FROM TRUNKS, TYP.
5. TREES MUST HAVE AN UNCUT LEADER THAT HAS A UNIFORM TAPER FROM BASE TO TIP. TREES MUST MEET AT LEAST NORMAL CALIPER AND HEIGHT FOR CONTAINER SIZE. OVERGROWN OR ROOT BOUND TREES ARE NOT ACCEPTABLE.
6. FOR ALL TREES IN STORMWATER INFILTRATION ZONES HOLD FG OF ROOTBALL 4" ABOVE FG OF FLOWLINE. ADJUST ADJACENT GRADE OF SOIL TO BLEND UNIFORMLY AROUND ROOTBALL AND ALLOW UNIMPEDED FLOW OF WATER.

SHRUBS

7. SHRUBS AND PERENNIALS MUST HAVE ADEQUATE SETBACK FROM THE ADJACENT SIDEWALK AND EDGES OF PARKING LOT CURBS. NOTIFY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION IF PLANT MATERIAL MAY PROTRUDE INTO THE PATH OF TRAVEL.

ACCESSORIES

1. ALL PLANTING NOT BOUNDED BY CONCRETE OR A HARDSCAPE EDGE SHALL BE COMPLETELY SURROUNDED BY HEADERS. ALL ASPHALT AND DECOMPOSED GRANITE AREAS TO BE COMPLETELY SURROUNDED BY HEADERS OR ADJACENT CONCRETE WORK.
2. ALL PLANTING AREAS MUST BE TOP-DRESSED WITH 3" LAYER OF RECYCLED CHIPPED MULCH, COLOR: BROWN. SUBMIT SAMPLE TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO ORDERING.
3. ALL MULCH WITHIN STORMWATER PLANTING AREAS MUST BE 3" OF WASHED PEA GRAVEL.
4. ALL STORMWATER CURB CUTS MUST BE REINFORCED WITH A MINIMUM 12" WIDE X18" LONG X 6" DEEP BAND OF COBBLE. COBBLE SHALL BE 40% 4"-6" AND 60% 2"-3" NOIYO COBBLE. PROVIDE 24" WIDE BY 6" DEPTH OF COBBLE AROUND ALL CATCH BASINS LOCATED IN DRAINAGE AREAS. SUBMIT SAMPLE FOR REVIEW AND APPROVAL
5. ALL RAINWATER LEADERS DISCHARGING INTO LANDSCAPE AREAS MUST HAVE SPLASH BLOCKS. MODEL: CDI 16X24". COLOR: TO MATCH PAVING. (800) 279-2278.
6. SEE SPECIFICATIONS FOR ALL FERTILIZER REQUIREMENTS

SUBMITTALS

1. CONTRACTOR MUST SUBMIT ALL TESTS, PRODUCTS, ACCESSORIES, INCIDENTALS, CUT SHEETS OF ALL ITEMS SPECIFIED FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
2. ALL PLANT MATERIAL MUST BE REVIEWED AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO DELIVERY. CONTRACTOR SHALL SUBMIT PHOTOS OF ALL SHRUBS, GROUND COVERS, VINES, AND TREES FOR PRELIMINARY REVIEW AND APPROVAL.
3. ALL SUBMITTALS AND PLANT MATERIAL NOT REVIEWED AND APPROVED IN WRITING BY THE LANDSCAPE ARCHITECT MAY BE SUBJECT TO FULL REMOVAL AND REPLACEMENT WITH APPROVED SOILS, FERTILIZERS, AND PLANT MATERIAL AT NO ADDITIONAL COST TO THE CONTRACT OR OWNER.
4. SUBMITTALS AND SITE MOCKUPS OF ALL WORK SHALL BE REQUIRED PRIOR TO FINAL PLACEMENT INCLUDING BUT NOT LIMITED TO ALL WALLS, PAVEMENTS, COLORS, FINISHES, METAL WORK, FENCING, AND PAINTING FOR REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT. SEE SPECIFICATIONS.

TREE PROTECTION NOTES:

1. PRIOR TO INITIATING ANY CONSTRUCTION ACTIVITY IN THE AREA, INCLUDING GRADING, TEMPORARY PROTECTIVE FENCING SHALL BE INSTALLED AT EACH SITE TREE. FENCING SHALL BE LOCATED AT OR BEYOND THE CANOPY DRIP LINE SO THAT 100% OF THE DRIP LINE WILL BE PROTECTED BY FENCING. TO REDUCE SOIL COMPACTION FROM EQUIPMENT.
2. THE CONTRACTOR IS REQUIRED TO WATER, FERTILIZE AND ATTEND TO OTHER MAINTENANCE NEEDS OF EXISTING TREES AS NEEDED PER ARBORIST'S RECOMMENDATIONS TO MAINTAIN HEALTHY GROWTH THROUGHOUT THE CONSTRUCTION PERIOD. SIX FEET DIAMETER, MINIMUM, BY SIX INCH TALL EARTH BERMS SHALL BE CONSTRUCTED AT THE BASE OF EACH TREE TO FUNCTION AS TEMPORARY WATERING BASINS DURING THE CONSTRUCTION PERIOD. TREES SHALL BE WATERED ACCORDING TO WEATHER AND TREE REQUIREMENTS. APPROVED MULCH OF 1-2 INCH SIZED WOOD CHIPS SHALL BE PLACED AT A DEPTH OF 4 INCHES WHERE NO EXCAVATION IS TO OCCUR IN THE VICINITY OF THE TREES TO BE PROTECTED.
3. THE TREE PROTECTION FENCE SHALL BE 6' HIGH SNOW FENCE WITH IMMOVABLE POSTS. THE FENCING SHALL FORM A CONTINUOUS BARRIER WITHOUT ENTRY POINTS AROUND EACH TREE. ANY ENCROACHMENT INTO THE DRIP LINE FOR FENCING OR CONSTRUCTION PURPOSES SHALL NOT BE PERMITTED.
4. LOW HANGING LIMBS OF SAVED TREES SHALL BE PRUNED PRIOR TO GRADING, OR ANY EQUIPMENT MOBILIZATION ON SITE. THE PURPOSE OF THIS REQUIREMENT IS TO AVOID TEARING LIMBS BY HEAVY EQUIPMENT. ALL LIMBS TO BE PRUNED SHALL BE SUPERVISED BY THE ARBORIST OF RECORD FOR THE JO.
5. THIS FENCING SHALL SERVE AS A BARRIER TO PREVENT DRIP LINE ENCROACHMENT OF ANY TYPE OF CONSTRUCTION ACTIVITIES AND EQUIPMENT. NO OILS,. GAS, CHEMICALS, LIQUID WASTE, SOLID WASTE CONSTRUCTION MACHINERY OR CONSTRUCTION MATERIALS SHALL BE STORED OR ALLOWED TO STAND FOR ANY PERIOD OF TIME WITHIN THE DRIP LINE OF THE TREE. FURTHER, NO ONE SHALL ENTER THE FENCE PERIMETER FOR ANY REASON EXCEPT FOR THE PURPOSE OF MONITORING THE HEALTH OF THE TREE. ACCIDENTAL DAMAGE TO BARK, ROOT CROWN, OR LIMBS MAY INCREASE POTENTIAL FOR FUTURE DECLINE.
6. CONTRACTORS AND SUBCONTRACTORS SHALL DIRECT ALL EQUIPMENT AND PERSONNEL TO REMAIN OUTSIDE THE FENCED AREA AND AT ALL TIMES UNTIL PROJECT IS COMPLETE, AND SHALL INSTRUCT EMPLOYEES AS TO THE PURPOSE AND IMPORTANCE OF FENCING.
7. A "TREE PROTECTION ZONE" SIGN SHALL BE POSTED AT EACH TREE INDICATING THE PURPOSE OF THE FENCING.
8. THE ARBORIST OF RECORD FOR THE JOB OR THE CITY ARBORIST SHALL BE RESPONSIBLE FOR INSPECTION AND APPROVAL OF THE FENCING PRIOR TO ANY GRADING OPERATIONS.
9. FENCING MUST REMAIN IN PLACE AND SHALL NOT BE REMOVED UNTIL ALL CONSTRUCTION ACTIVITIES ARE COMPLETED. THIS SHALL INCLUDE GRADING AND COMPACTION ACTIVITIES, INSTALLATION OF UNDERGROUND, ALL CONSTRUCTION ACTIVITIES AND ANY OTHER CONSTRUCTION OR ACTIVITY WHICH IS SCHEDULED PRIOR OR LANDSCAPE INSTALLATION.
10. ROOTS OF SINGLE STANDING TREES OFTEN EXTEND UP TO THREE TIMES THE DISTANCE OF THE ACTUAL DRIP LINE AND FUNCTION PRIMARILY IN THEY UPTAKE OF NUTRIENTS AND WATER. THE DRIP LINE IS ARBITRARILY ESTABLISHED AS THE MINIMUM ROOT AREA GENERALLY REQUIRED TO PRESERVE TREE HEALTH. AS MUCH AREA AROUND THE CIRCUMFERENCE OF THE TREE SHOULD HAVE MINIMUM INTRUSION TO FURTHER INSURE TREE SURVIVAL AND HEALTH.
11. UNAUTHORIZED TREE REMOVAL IS SUBJECT TO IN-KIND REPLACEMENT EQUAL TO THE VALUE OF THE MATURE RESOURCE LOST, AS DETERMINED BY THE CITY.
12. NO MECHANICAL TRENCHING SHALL OCCUR WITHIN THE TREE PROTECTION ZONE. ANY EXCAVATION IF REQUIRED SHALL BE BY HAND, AIR SPADE OR BY VACUUM. CUTTING OF ANY ROOTS OVER 3" DIA SHALL BE REVIEWED BY AN ARBORIST.
13. SEE TREE PRESERVATION SPECIFICATIONS FOR ADDITIONAL INFORMATION.
14. THE CONTRACTOR SHALL CONTRACT WITH AN ARBORIST AS REQUIRED TO ENSURE PROPER TREE HEALTH IF A PROJECT ARBORIST OR CITY ARBORIST HAS NOT BEEN CONTRACTED.

PLANT LIST

PLANT SCHEDULE

CODE	BOTANICAL NAME	COMMON NAME	SIZE	WATER USE	SPACING	QTY
TREES						
LIN	LAGERSTROEMIA INDICA 'NATCHEZ'	NATCHEZ CRAPE MYRTLE	24" BOX	M	AS SHOWN	8
LAS	LAURUS 'SARATOGA'	SARATOGA LAURAL	24" BOX	M	AS SHOWN	6
QLO	QUERCUS LOBATA	VALLEY OAK	24" BOX	L	AS SHOWN	4
SHRUBS						
AB	ANIGOZANTHOS 'BUSH GOLD'	YELLOW KANGAROO PAW	5 GAL	L	36" O.C.	73
CC	CARPENTERIA CALIFORNICA 'ELIZABETH'	ELIZABETH BUSH ANEMONE	5 GAL	L	60" O.C.	5
CH	CEANOTHUS GRISEUS HORIZONTALIS 'DIAMOND HEIGHTS'	DIAMOND HEIGHTS CARMEL CREEPER	5 GAL	L	72" O.C.	34
LC	LEYMUS CONDENSATUS 'CANYON PRINCE'	CANYON PRINCE GIANT WILD RYE	5 GAL	L	48" O.C.	158
LL	LOMANDRA LONGIFOLIA 'BREEZE'	BREEZE™ MAT RUSH	5 GAL	L	48" O.C.	72
MP	MYOPORUM PARVIFOLIUM 'PUTAH CREEK'	PUTAH CREEK TRAILING MYOPORUM	5 GAL	L	120" O.C.	15
RE	RHAMNUS CALIFORNICA 'EVE CASE'	EVE CASE COFFEEBERRY	5 GAL	L	72" O.C.	48

PLANTING LEGEND

XXX / XX	TREE NAME / QUANTITY	SEE PLANT LIST FOR ADDT'L INFO.
XX / XX	SHRUB NAME / QUANTITY	SEE PLANT LIST FOR ADDT'L INFO.

SHADE CALCULATIONS

	TOTAL AREA	SHADE COVERAGE REQUIRED	SHADE COVERAGE PROVIDED
HARDSCAPE	NA	NA	NA
LANDSCAPE	12,636 SF	2,527 SF (20% TOTAL AREA)	4592 SF (36% TOTAL AREA)
PARKING	8,530 SF	4,265 SF (50% TOTAL AREA)	5,543 SF (65% TOTAL AREA)

SHADE COVERAGE CALCULATIONS PER DSA GL-4, CALGREEN §5.106.12.1

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2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

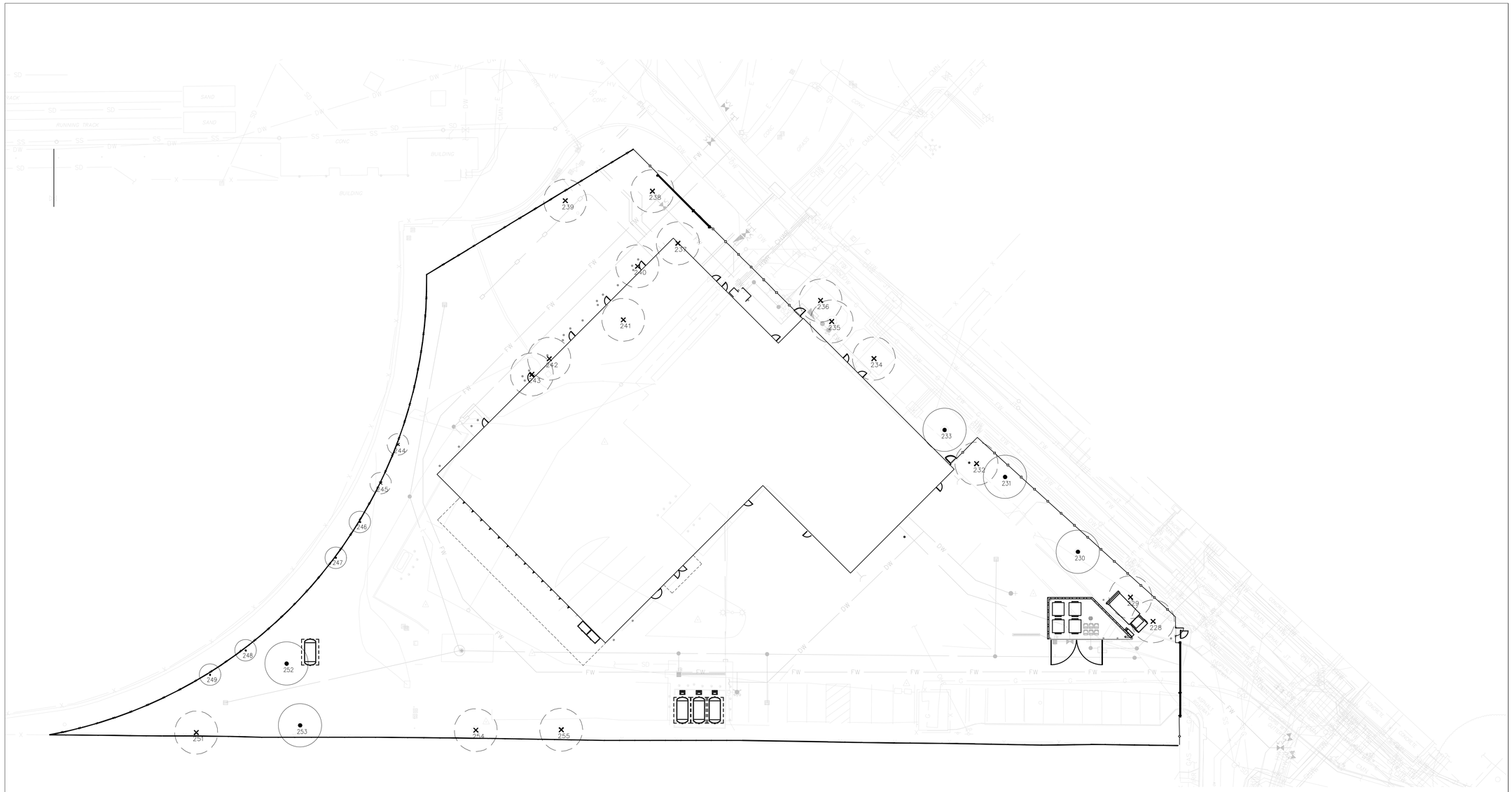
REGISTERED LANDSCAPE ARCHITECT — CHRISTOPHER J. GATES — 6/30/2026 — 12/17/2024 — L.A. — STATE OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA
94545

project number: 20-296
date: DEC 17, 2024

LANDSCAPE NOTES

L0.1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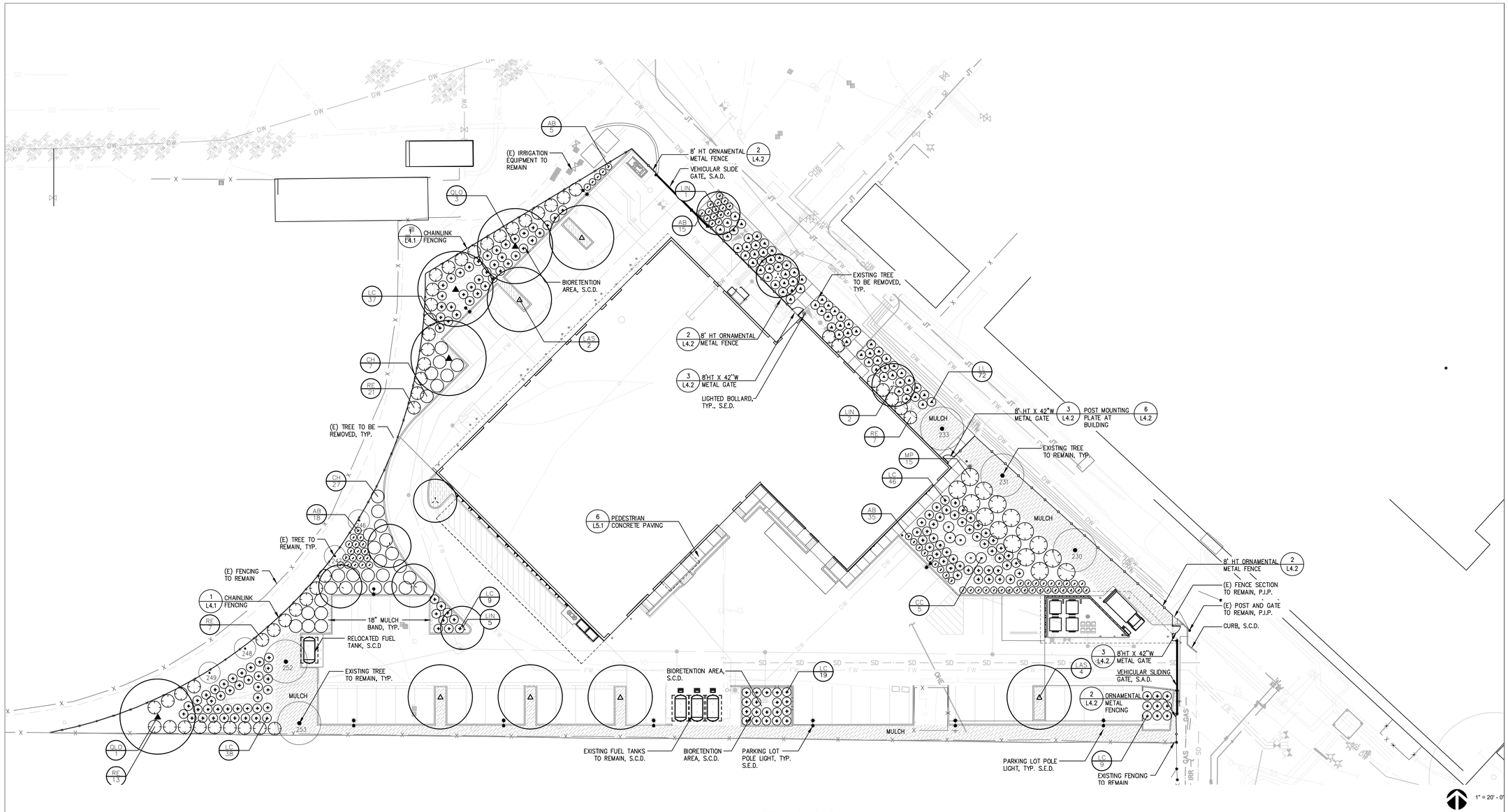

MATERIALS LEGEND

- PEDESTRIAN CONCRETE PAVING — FINISH: BROOM — COLOR: STANDARD GREY — 6 / L4.1
- LANDSCAPE MULCH — 3" RECYCLED CHIPPED MULCH, COLOR BROWN
- 8' HT CHAINLINK FENCE — FINISH: BLACK VINYL COATED — OPTIONS: PRIVACY SLATS — 1 / L4.2
- 8' HT ORNAMENTAL METAL GATE — MFR: AMERISTAR — MODEL: MONTAGE COMMERCIAL MAJESTIC 1RMB3948-3 — 2 / L4.2
- 8'HT METAL GATE — MFR: MONTAGE — MODEL: MONTAGE COMMERCIAL MAJESTIC 3 RAIL SWING GATE 1WMB382-42 — 3 / L4.2
- LIGHTED BOLLARD, S.E.D.
- PARKING LOT POLE LIGHT, S.E.D.

PLANT LIST

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RE	RHAMNUS CALIFORNICA 'EVE CASE'	EVE CASE COFFEEBERRY	5 GAL	L	72" O.C.	48

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	2022.02.28	SCHEMATIC DESIGN

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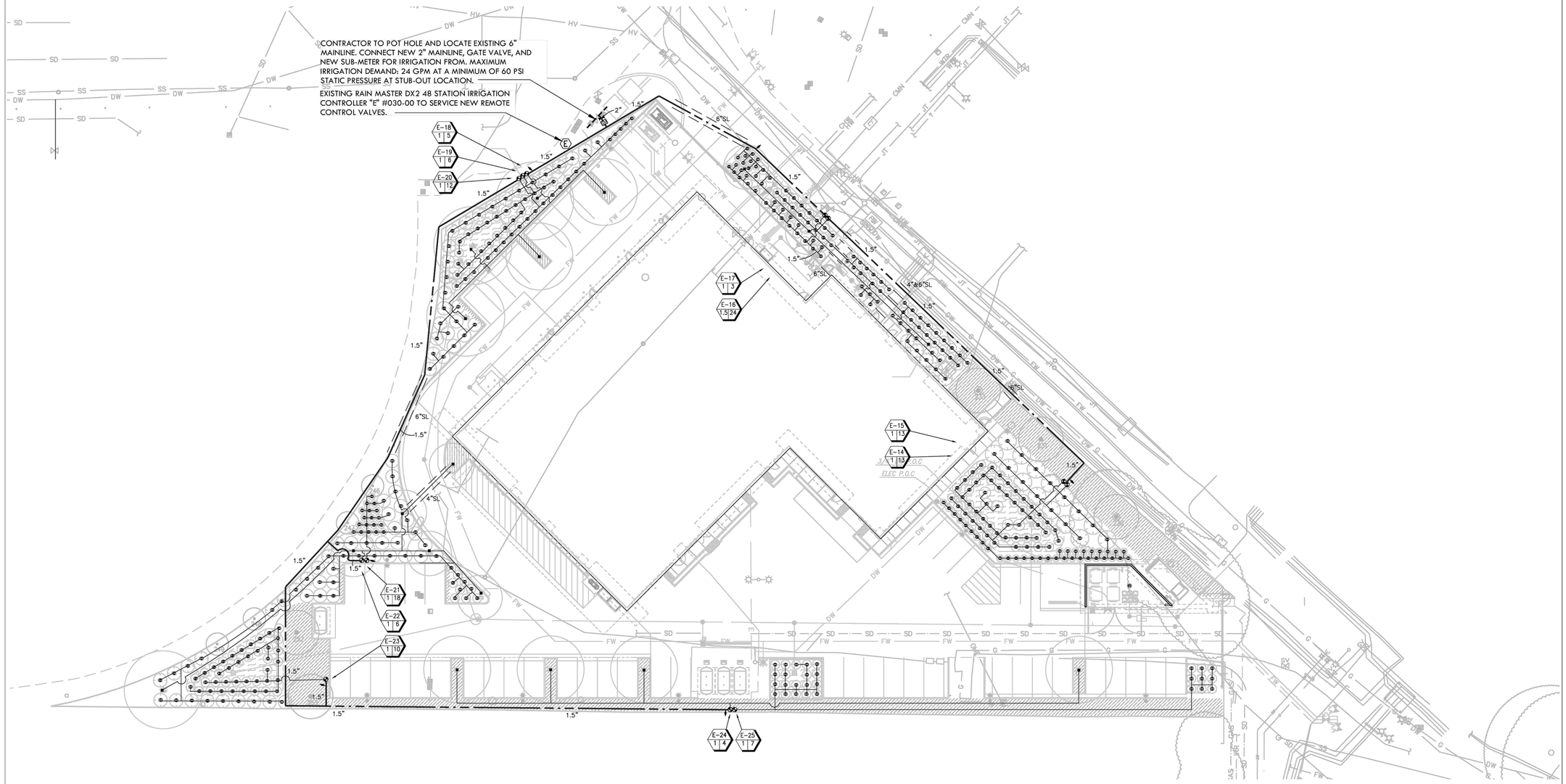
date: DEC 17, 2024

PLANTING PLAN

L2.1



1" = 20' - 0"

NOTES:

1. EXISTING MAINLINE AND LOW VOLTAGE WIRES SHALL REMAIN IN SERVICE AND SHALL BE PROTECTED IN PLACE DURING CONSTRUCTION. CONTRACTOR SHALL REPAIR OR REPLACE DAMAGED MAINLINE OR WIRES IN KIND AS REQUIRED.
2. IRRIGATION CONTROLLER IS 48 STATION CAPACITY WITH 13 STATIONS USED PER INFORMATION INDICATED ON REFERENCED AS-BUILT PLAN DOCUMENTATION. CONTRACTOR SHALL FIELD VERIFY CONTROLLER LOCATION, AVAILABLE STATIONS AND CURRENT STATION ASSIGNMENTS AND ADJUST VALVE SEQUENCE AS INDICATED ON PLANS IF REQUIRED.
3. ONE BUBBLER SYMBOL IS SHOWN AT TREES FOR GRAPHIC CLARITY ONLY. INSTALL MINIMUM TWO BUBBLERS AT EACH TREE. INSTALL REQUIRED NUMBER OF BUBBLERS AS DETAILED.
4. IRRIGATION EQUIPMENT MAY BE SHOWN WITHIN HARDSCAPE FOR GRAPHIC CLARITY ONLY. INSTALL ALL IRRIGATION EQUIPMENT WITHIN PLANTED AREAS. IRRIGATION PIPE AND WIRE CROSSING BENEATH HARDSCAPE SURFACES SHALL BE CONTAINED WITHIN SLEEVING OF SCHEDULE 40 PVC CONDUIT. SLEEVING SIZE SHALL BE A MINIMUM OF TWO TIMES THE AGGREGATE DIAMETER OF ALL PIPES CONTAINED WITH SLEEVE. PROVIDE VERTICAL SWEEP FOR ALL ELECTRICAL CONDUIT ON EACH SIDE OF HARDSCAPE AND TERMINATE ENDS AT 12" MINIMUM DEPTH AND 12" FROM HARDSCAPE SURFACE.
5. UNSIZED LATERAL LINE PIPING LOCATED DOWN STREAM OF 1" PIPING SHALL BE 3/4" IN SIZE (TYPICAL).
6. SIZING OF LATERAL PIPE SHALL BE AS FOLLOWS:

0.75"	0-6 GPM
1"	7-12 GPM
1.25"	13-20 GPM
1.5"	21-30 GPM

Irrigation Consultant:
Russell D. Mitchell Associates, Inc.
2760 Camino Diablo
Walnut Creek, CA 94597
tel 925.939.3985 ♦ fax 925.932.5671
www.rmairrigation.com

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project number: 20-296
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IRRIGATION PLAN

L3.1

IRRIGATION NOTES

1. THESE IRRIGATION DRAWINGS ARE DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. ALL PIPING, VALVES, AND OTHER IRRIGATION COMPONENTS MAY BE SHOWN WITHIN PAVED AREAS FOR GRAPHIC CLARITY ONLY AND ARE TO BE INSTALLED WITHIN PLANTING AREAS. DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, SLEEVES, CONDUIT, AND OTHER ITEMS WHICH MAY BE REQUIRED. INVESTIGATE THE STRUCTURAL AND FINISHED CONDITION AFFECTING THE CONTRACT WORK INCLUDING OBSTRUCTIONS, GRADE DIFFERENCES OR AREA DIMENSIONAL DIFFERENCES. IN THE EVENT OF FIELD DISCREPANCY WITH CONTRACT DOCUMENTS, PLAN THE INSTALLATION WORK ACCORDINGLY BY NOTIFICATION AND APPROVAL OF THE OWNER'S AUTHORIZED REPRESENTATIVE AND ACCORDING TO THE CONTRACT SPECIFICATIONS. NOTIFY AND COORDINATE IRRIGATION CONTRACT WORK WITH APPLICABLE CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE, CONDUIT OR SLEEVES THROUGH OR UNDER WALLS, ROADWAYS, PAVING AND STRUCTURES BEFORE CONSTRUCTION. IN THE EVENT THESE NOTIFICATIONS ARE NOT PERFORMED, THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR REQUIRED REVISIONS.

2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, STANDARDS, AND REGULATIONS. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE NATIONAL ELECTRIC CODE; THE UNIFORM PLUMBING CODE, PUBLISHED BY THE WESTERN PLUMBING OFFICIALS ASSOCIATION; AND OTHER STATE OR LOCAL LAWS OR REGULATIONS. NOTHING IN THESE DRAWINGS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR REGULATIONS. THE CONTRACTOR SHALL FURNISH WITHOUT ANY EXTRA CHARGE, ANY ADDITIONAL MATERIAL AND LABOR WHEN REQUIRED BY THE COMPLIANCE WITH THESE CODES AND REGULATIONS.

3. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF IRRIGATION SYSTEM WITH LAYOUT AND INSTALLATION OF THE PLANT MATERIALS TO INSURE THAT THERE WILL BE COMPLETE AND UNIFORM IRRIGATION COVERAGE OF PLANTING IN ACCORDANCE WITH THESE DRAWINGS, AND CONTRACT DOCUMENTS. THE IRRIGATION LAYOUT SHALL BE CHECKED BY THE CONTRACTOR AND OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO CONSTRUCTION TO DETERMINE IF ANY CHANGES, DELETIONS, OR ADDITIONS ARE REQUIRED. IRRIGATION SYSTEM SHALL BE INSTALLED AND TESTED PRIOR TO INSTALLATION OF PLANT MATERIAL.

4. THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER REQUIRED TO SUSTAIN GOOD PLANT HEALTH.

5. IT IS THE RESPONSIBILITY OF THE MAINTENANCE CONTRACTOR AND/OR OWNER TO PROGRAM THE IRRIGATION CONTROLLER(S) TO PROVIDE THE MINIMUM AMOUNT OF WATER NEEDED TO SUSTAIN GOOD PLANT HEALTH. THIS INCLUDES MAKING ADJUSTMENTS TO THE PROGRAM FOR SEASONAL WEATHER CHANGES, PLANT MATERIAL, WATER REQUIREMENTS, MOUNDS, SLOPES, SUN, SHADE AND WIND EXPOSURE.

6. INSTALL 3" DETECTABLE TAPE ABOVE ALL PRESSURIZED MAIN LINES AS DETAILED. USE CHRISTY MODEL #TA-DT-3-PIRR FOR IRRIGATION WATER SYSTEMS.

7. PROVIDE EACH IRRIGATION CONTROLLER WITH ITS OWN INDEPENDENT LOW VOLTAGE COMMON GROUND WIRE.

8. IRRIGATION CONTROL WIRES: SOLID COPPER WITH U.L. APPROVAL FOR DIRECT BURIAL IN GROUND. COMMON GROUND WIRE: SIZE #12-1 WIRE WITH A WHITE INSULATING JACKET. CONTROL WIRE SERVICING REMOTE CONTROL VALVES: SIZE #14-1 WIRE WITH INSULATING JACKET OF COLOR OTHER THAN WHITE. SPLICES SHALL BE MADE WITH 3M-DBY SEAL PACKS OR APPROVED EQUAL.

9. INSTALL TWO SPARE CONTROL WIRES OF A DIFFERENT COLOR ALONG THE ENTIRE MAIN LINE. LOOP 36" EXCESS WIRE INTO EACH SINGLE VALVE BOX AND INTO ONE VALVE BOX IN EACH GROUP OF VALVES.

10. SPLICING OF LOW VOLTAGE WIRES IS PERMITTED IN VALVE BOXES ONLY. LEAVE A 36" LONG, 1" DIAMETER COIL OF EXCESS WIRE AT EACH SPLICE AND A 36" LONG EXPANSION LOOP EVERY 100 FEET ALONG WIRE RUN. TAPE WIRES TOGETHER EVERY TEN FEET. DO NOT TAPE WIRES TOGETHER WHERE CONTAINED WITHIN SLEEVING OR CONDUIT.

11. INSTALL BLACK OR GREEN PLASTIC VALVE BOXES WITH BOLT DOWN, NON HINGED COVER MARKED "IRRIGATION CONTROL VALVE". BOX BODY SHALL HAVE KNOCK OUTS. ACCEPTABLE VALVE BOX MANUFACTURER'S INCLUDE NDS, CARSON OR APPROVED EQUAL.

12. INSTALL REMOTE CONTROL VALVE BOXES 12" FROM WALK, CURB, BUILDING OR LANDSCAPE FEATURE. AT MULTIPLE VALVE BOX GROUPS, INSTALL EACH BOX AN EQUAL DISTANCE FROM THE WALK, CURB, BUILDING OR LANDSCAPE FEATURE AND PROVIDE 12" BETWEEN BOX TOPS. ALIGN THE SHORT SIDE OF RECTANGULAR VALVE BOXES PARALLEL TO WALK, CURB, BUILDING OR LANDSCAPE FEATURE.

13. VALVE LOCATIONS SHOWN ARE DIAGRAMMATIC. INSTALL IN GROUND COVER/SHRUB AREAS (AVOID LAWN AREAS WHERE POSSIBLE).

14. THE CONTRACTOR SHALL LABEL CONTROL LINE WIRE AT EACH REMOTE CONTROL VALVE WITH A 2 1/4" X 2 3/4" POLYURETHANE I.D. TAG, INDICATING IDENTIFICATION NUMBER OF VALVE (CONTROLLER AND STATION NUMBER). ATTACH LABEL TO CONTROL WIRE. THE CONTRACTOR SHALL PERMANENTLY STAMP ALL VALVE BOX LIDS WITH APPROPRIATE IDENTIFICATION AS NOTED IN CONSTRUCTION DETAILS.

15. INSTALL A GATE VALVE TO ISOLATE EACH REMOTE CONTROL VALVE OR GROUP OF RCV'S LOCATED TOGETHER. GATE VALVE SIZE SHALL BE SAME AS THE LARGEST REMOTE CONTROL VALVE IN MANIFOLD.

16. FLUSH AND ADJUST IRRIGATION OUTLETS AND NOZZLES FOR OPTIMUM PERFORMANCE AND TO PREVENT OVER SPRAY ONTO WALKS, ROADWAYS, AND/OR BUILDINGS. SELECT THE BEST DEGREE OF THE ARC AND RADIUS TO FIT THE EXISTING SITE CONDITIONS AND THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH CONTROL ZONE.

17. LOCATE BUBBLERS ON UPHILL SIDE OF PLANT OR TREE.

18. INSTALL A HUNTER HCV SERIES, KBI CV SERIES, OR APPROVED EQUAL SPRING LOADED CHECK VALVE IN SPRINKLER RISER ASSEMBLIES WHERE LOW OUTLET DRAINAGE WILL CAUSE EROSION AND/OR EXCESS WATER.

19. WHERE IT IS NECESSARY TO EXCAVATE ADJACENT TO EXISTING TREES, USE CAUTION TO AVOID INJURY TO TREES AND TREE ROOTS. EXCAVATE BY HAND IN AREAS WHERE TWO (2) INCH AND LARGER ROOTS OCCUR. BACK FILL TRENCHES ADJACENT TO TREE WITHIN TWENTY-FOUR (24) HOURS. WHERE THIS IS NOT POSSIBLE, SHADE THE SIDE OF THE TRENCH ADJACENT TO THE TREE WITH WET BURLAP OR CANVAS.

20. NOTIFY LOCAL JURISDICTIONS FOR INSPECTION AND TESTING OF INSTALLED BACKFLOW PREVENTION DEVICE.

21. THE IRRIGATION SYSTEM DESIGN IS BASED ON THE MINIMUM OPERATING PRESSURE SHOWN ON THE IRRIGATION DRAWINGS. VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION TO THE OWNER'S AUTHORIZED REPRESENTATIVE.

22. IRRIGATION DEMAND: REFER TO PLANS.

23. THE EXISTING MAIN LINE SHOWN ON THE DRAWINGS IS DIAGRAMMATIC. VERIFY AND LOCATE EXISTING MAIN LINE IN FIELD. REPORT TO ARCHITECT IN WRITING ANY DEVIATION OF EXISTING MAIN LINE LOCATION FROM THAT SHOWN ON THE DRAWINGS.

24. AT POINT OF CONNECTION AT EXISTING MAIN LINE FOR NEW REMOTE CONTROL VALVES OR QUICK COUPLING VALVES, INSTALL A SERVICE SADDLE WITH REQUIRED TAPPED OUTLET SIZE. ROMAC 202S, OR APPROVED EQUAL.

25. PIPE SIZING SHOWN ON THE DRAWINGS IS TYPICAL. AS CHANGES IN LAYOUT OCCUR DURING STAKING AND CONSTRUCTION THE SIZE MAY NEED TO BE ADJUSTED ACCORDINGLY.

26. PIPE THREAD SEALANT COMPOUND SHALL BE RECTOR SEAL #5.

27. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR MINOR CHANGES IN THE IRRIGATION LAYOUT DUE TO OBSTRUCTIONS NOT SHOWN ON THE IRRIGATION DRAWINGS SUCH AS LIGHTS, FIRE HYDRANTS, SIGNS, ELECTRICAL ENCLOSURES, ETC.

28. WHEN WORK OF THIS SECTION HAS BEEN COMPLETED AND SUCH OTHER TIMES AS MAY BE DIRECTED, REMOVE ALL TRASH, DEBRIS, SURPLUS MATERIALS AND EQUIPMENT FROM SITE.

29. CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLEMENTAL HAND WATERING OF ALL PLANT MATERIAL WITHIN DRIPLINE AREAS UNTIL THE PLANTS ARE SUFFICIENTLY ESTABLISHED.

30. VERIFY LOCATIONS OF ALL IRRIGATION COMPONENTS INSTALLED WITHIN A VALVE BOX WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. DO NOT INSTALL UNTIL LANDSCAPE ARCHITECT PROVIDES ACCEPTABLE LOCATIONS.

IRRIGATION LEGEND

SYMBOL	MODEL NUMBER	DESCRIPTION	NOZZLE GPM	OPERATING PSI	OPERATING RADIUS (FEET)
⊙	1401 SERIES	RAIN BIRD BUBBLER (SHRUB)	0.25	30	TRICKLE
■	1402 SERIES	RAIN BIRD BUBBLER 2 MIN. PER TREE	0.5	30	TRICKLE
⊛	EFB-CP SERIES	RAIN BIRD BRASS REMOTE CONTROL VALVE			
⊕	-	EXISTING REMOTE CONTROL VALVE, REMOVE IF NO LONGER IN USE WITHIN THE LIMITS OF WORK			
◄►	44 NP	RAIN BIRD 1" TWO-PIECE QUICK COUPLING VALVE (PURPLE LOCKING RUBBER COVER)			
⋈	LGT-XX-SS	LEEMCO STAINLESS STEEL GATE VALVE (LINE SIZE)-2.5" AND SMALLER			
SM	M120-150LNSX-HL	BADGER RECORDALL 1.5" SUBMETER FOR IRRIGATION			
Ⓒ	-	EXISTING 48 STATION RAIN MASTER DX3 CONTROLLER IN A STAINLESS STEEL ENCLOSURE			

	CONTROLLER AND STATION NUMBER
	FLOW (GPM)
	REMOTE CONTROL VALVE SIZE (IN INCHES)
	CONTROLLER AND STATION NUMBER
MAIN LINE:	EXISTING. ROUTING OF PIPE IS APPROXIMATE. POT HOLE AND LOCATE AS REQUIRED. PROTECT DURING CONSTRUCTION.
MAIN LINE:	2" AND SMALLER: 1120-SCHEDULE 40 PVC PLASTIC PIPE WITH SCHEDULE 40 PVC SOLVENT WELD FITTINGS. 18" COVER.
LATERAL LINE:	3/4" AND LARGER: 1120-SCHEDULE 40 PVC PLASTIC PIPE WITH SCHEDULE 40 PVC SOLVENT WELD FITTINGS. 12" COVER.
DRIPLINE LATERAL LINE:	3/4" AND LARGER: 1120-SCHEDULE 40 PVC PLASTIC PIPE WITH SCHEDULE 40 PVC SOLVENT WELD FITTINGS. 12" COVER.
SLEEVING:	1120-CL. 200 PVC PLASTIC PIPE. COVER TO BE AS INDICATED IN SPECIFICATIONS OR AS INDICATED ABOVE FOR PIPE DEPTH OF COVER.

NOTE:
ALL PIPE SHALL BE PURPLE IN COLOR WITH LABELING APPROVED FOR USE WITH RECYCLED WATER SYSTEMS.

Irrigation Consultant:
Russell D. Mitchell Associates, Inc.
2760 Camino Diablo
Walnut Creek, CA 94597
tel 925.939.3985 ♦ fax 925.932.5671
www.rmairrigation.com

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2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

	date	issue description

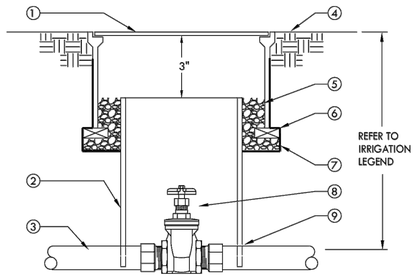
REGISTERED LANDSCAPE ARCHITECT
CORY OHE - No. 6369
5/20/2026
12/17/2024
STATE OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: DEC 17, 2024

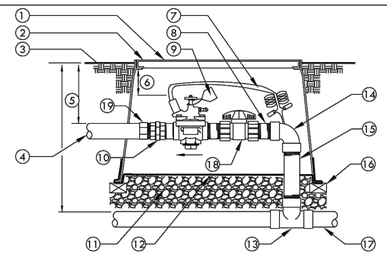
IRRIGATION NOTES AND LEGEND

L3.2



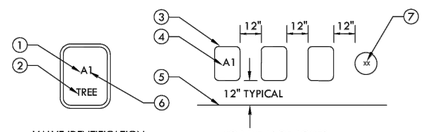
1. 10" ROUND PLASTIC VALVE BOX WITH BOLT DOWN LID.
2. 8" CLASS 160 OR SCHEDULE 40 PVC PIPE (NOTCH TO FIT OVER MAIN LINE PIPE).
3. PVC MAIN LINE.
4. FINISH GRADE.
5. PEA GRAVEL OR 3/4" DRAIN ROCK - 4" DEEP (NO SOIL IN VALVE BOX).
6. BRICK-2 TOTAL.
7. 19 GAUGE 1/2" SQUARE WIRE MESH. WRAP UP SIDES OF BOX.
8. GATE VALVE WITH X-TOP HANDLE.
9. MALE ADAPTER. REFER TO LEGEND FOR FITTING TYPE.

1 GATE VALVE - 3" [75mm] AND SMALLER
SCALE: NONE



1. REMOTE CONTROL VALVE WITH FLOW CONTROL AND MANUAL BLEED (PRESSURE REGULATOR WHERE SHOWN ON PLANS).
2. USE A NDS PRO SERIES 14" X 19" RECTANGULAR PLASTIC VALVE BOX WITH BOLT DOWN LID FOR 1" VALVES. FOR 1.5" AND LARGER VALVES INSTALL BALL VALVE WITHIN A SEPARATE 10" ROUND BOX OR ONE BALL VALVE PER MANIFOLD OF VALVES. GATE VALVE SIZE SHALL BE SAME AS LARGEST VALVE WITHIN MANIFOLD. ONE VALVE PER BOX- NO EXCEPTIONS. INSTALL BOX AS SHOWN IN BOX INSTALLATION DETAIL.
3. FINISH GRADE.
4. PVC LATERAL LINE.
5. REFER TO IRRIGATION SPECS.
6. 3" [75mm] MIN, 6" [150mm] MAX.
7. VALVE CONTROL WIRE- PROVIDE SEAL PACKS AT ALL SPLICES AND 3' [1m] OF EXCESS UF WIRE IN A 1" [25mm] DIAMETER COIL.
8. SCHEDULE 80 PVC NIPPLE (3 TOTAL).
9. VALVE I.D. TAG (CONTROLLER AND STATION NUMBER).
10. SCHEDULE 80 PVC THREADED UNION.
11. PEA GRAVEL OR 3/4" DRAIN ROCK- 4" [100mm] DEEP BELOW VALVE (NO SOIL IN VALVE BOX).
12. 19 GAUGE 1/2" [12mm] SQUARE WIRE MESH.
13. SCHEDULE 40 OR 80 PVC TEE. REFER TO LEGEND FOR TYPE.
14. SCHEDULE 80 PVC 90° ELBOW (TxT).
15. SCHEDULE 80 PVC NIPPLE- LENGTH AS REQUIRED.
16. BRICK-1 EACH CORNER.
17. PVC MAIN LINE.
18. SCHEDULE 80 PVC UNION BALL VALVE (ONE PER VALVE).
19. SCHEDULE 40 MALE ADAPTER

2 REMOTE CONTROL VALVE
SCALE: NONE



VALVE IDENTIFICATION

1. CONTROLLER ID.
2. ALL TREE VALVES TO HAVE TREE BRANDED INTO LID.
3. RECTANGULAR VALVE BOX.
4. HEAT BRAND VALVE TYPE PER TABLE OR CONTROLLER ID AND STATION NUMBER INTO LID.
5. EDGE OF LAWN, WALK, FENCE, CURB, ETC.
6. STATION NUMBER.
7. ROUND VALVE BOX FOR QCV AND GATE VALVE. HEAT BRAND VALVE TYPE INTO INTO LID PER TABLE.

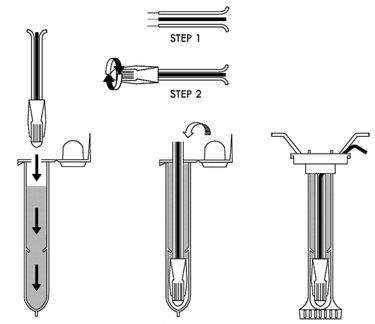
TOP VIEW OF BOXES

ITEMS TO BRAND:	BRAND CODE
GATE VALVE	GV
PRESSURE REDUCER	PRV
MASTER VALVE	MV
FLOW SENSOR	FS
HYDROMETER	HM
MAIN LINE AIR RELIEF	ARV
REMOTE CONTROL VALVE	A___
QUICK COUPLER	QC
SPLICE BOX	SB
PULL BOX	PB
LIGHTNING ARRESTOR	LA
GROUND ROD	GR

INSTRUCTIONS:

1. CENTER VALVE BOX OVER REMOTE CONTROL VALVE TO FACILITATE SERVICING VALVE.
2. SET BOXES 1" ABOVE FINISH GRADE OR MULCH COVER IN GROUND COVER/SHRUB AREA AND FLUSH WITH FINISH GRADE IN TURF AREA.
3. SET RCV AND VALVE BOX ASSEMBLY IN GROUND COVER/SHRUB AREA WHERE POSSIBLE. INSTALL IN LAWN ONLY IF GROUND COVER DOES NOT EXIST ADJACENT TO LAWN.
4. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE OF LAWN, WALK, FENCE, CURB, ETC.
5. AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOXES TO PREVENT COLLAPSE AND DEFORMATION OF VALVE BOX SIDES.
6. INSTALL EXTENSION BY VALVE BOX MANUFACTURER AS REQUIRED TO COMPLETELY ENCLOSE ASSEMBLY FOR EASY ACCESS.

3 VALVE BOX INSTALLATION
SCALE: NONE



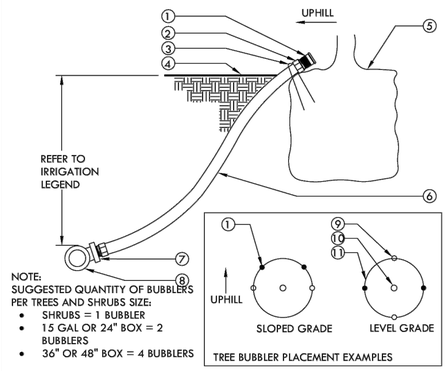
NOTE:
MAXIMUM # OF WIRES PER CONNECTOR:

- 3-#14 GAUGE
- 2-#12 GAUGE

INSTRUCTIONS:

1. STRIP WIRES APPROXIMATELY 1/2" FROM ENDS TO EXPOSE WIRE.
2. TWIST CONNECTOR AROUND WIRES CLOCKWISE UNTIL HAND TIGHT, DO NOT OVERTIGHTEN.
3. INSERT WIRE ASSEMBLY TO BOTTOM OF GEL-FILLED TUBE. CHECK TO MAKE SURE CONNECTOR HAS BEEN PUSHED PAST LOCKING FINGERS AND IS SEATED AT THE BOTTOM OF THE TUBE.
4. PLACE WIRES WHICH EXIT TUBE IN WIRE EXIT HOLES AND CLOSE CAP UNTIL IT SNAPS.
5. INSPECT FINAL SPLICE ASSEMBLY THAT IT IS SECURED.

4 WEATHERPROOF WIRE SPLICE ASSEMBLY
SCALE: NONE

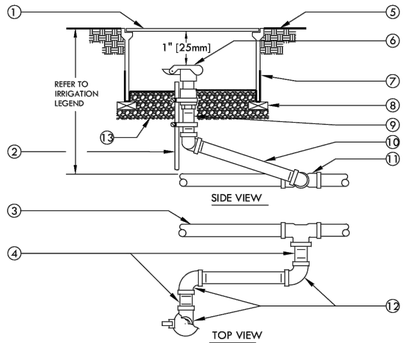


NOTE:
SUGGESTED QUANTITY OF BUBBLERS PER TREES AND SHRUBS SIZE:

- SHRUBS = 1 BUBBLER
- 15 GAL OR 24" BOX = 2 BUBBLERS
- 36" OR 48" BOX = 4 BUBBLERS

1. BUBBLER (TO BE INSTALLED ON TOP OF ROOTBALL).
2. 1/2" SCH. 40 MALE ADAPTER (2 TOTAL).
3. 6" STAPLE.
4. FINISH GRADE.
5. TREE OR SHRUB ROOTBALL.
6. 1/2" IPS FLEXIBLE PVC. USE WELD-ON 795 SOLVENT CEMENT OR EQUAL WHEN BONDING PVC HOSE TO FITTINGS.
7. PVC TEE (SST), ELBOW (ST) OR FEMALE ADAPTER.
8. PVC LATERAL LINE.
9. TREE STAKES.
10. TREE OR SHRUB.
11. EDGE OF ROOTBALL (TYPICAL).

5 TREE AND SHRUB BUBBLER
SCALE: NONE



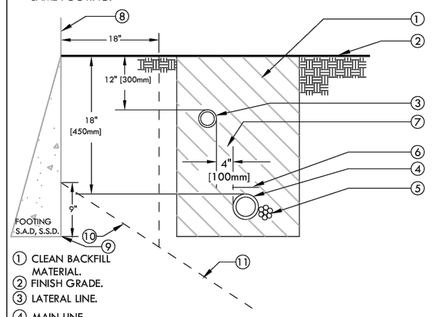
1. 10" ROUND PLASTIC VALVE BOX WITH BOLT DOWN LID.
2. 1 1/4" x 1 1/4" x 3/16" [30mm x 30mm x 5mm] ANGLE IRON 30" [760mm] LONG W/2 STAINLESS STEEL STRAPS (ONE AROUND QCV).
3. PVC MAIN LINE.
4. 3" [75mm] LONG SCHEDULE 80 PVC THREADED NIPPLE.
5. FINISH GRADE.
6. QUICK COUPLING VALVE.
7. 19 GAUGE 1/2" [13mm] SQUARE WIRE MESH.
8. BRICK - 2 TOTAL.
9. SCHEDULE 80 PVC THREADED NIPPLE.
10. 10" [250mm] LONG SCHEDULE 80 PVC THREADED NIPPLE.
11. UPC APPROVED SCHEDULE 40 PVC TEE OR ELBOW.
12. SCHEDULE 80 PVC THREADED 90° ELL.
13. PEA GRAVEL OR 3/4" DRAIN ROCK- 4" [100mm] DEEP BELOW VALVE (NO SOIL IN VALVE BOX).

NOTE:
NIPPLES AND FITTINGS TO BE SAME SIZE AS VALVE IPT INLET THREAD SIZE.

6 QUICK COUPLING VALVE
SCALE: NONE

NOTES:

1. ALL MAIN SUPPLY LINES AND LATERAL LINES SHALL BE PLACED IN SLEEVES UNDER PAVED SURFACES. INSTALL LOW VOLTAGE WIRES WITHIN A SEPARATE CONDUIT UNDER PAVED SURFACES. DO NOT TAPE WIRES WITHIN CONDUIT.
2. TRENCHES SHALL NOT BE BELOW A PLANE HAVING A DOWNWARD SLOPE OF 1 UNIT VERTICAL TO 2 UNITS HORIZONTAL FROM A LINE 9 INCHES ABOVE THE BOTTOM OF THE ADJACENT FOOTING AND NOT CLOSER THAN 18 INCHES FROM THE FACE OF THE SAME FOOTING.



1. CLEAN BACKFILL MATERIAL.
2. FINISH GRADE.
3. LATERAL LINE.
4. MAIN LINE.
5. LOW VOLTAGE CONTROL WIRE. TAPE AND BUNDLE TUBING OR WIRING AT 10 FT. INTERVALS. WIRING SHALL BE LAID OUT LOOSELY IN THE TRENCH.
6. 2" DETECTABLE WARNING TAPE OVER MAIN LINE - 3" [75mm] ABOVE PIPE. USE CHRISTY MODEL #TA-DT-2-BIRR FOR POTABLE IRRIGATION SYSTEMS OR #TA-DT-2-PIRR FOR RECYCLED IRRIGATION WATER SYSTEMS
7. TYPICAL DISTANCE BETWEEN PIPES.
8. FACE OF BUILDING FOUNDATION ADJACENT TO TRENCH. NO TRENCHING WITHIN 18".
9. BOTTOM OF ADJACENT FOOTING.
10. 1V:2h SPHERE OF INFLUENCE
11. TRENCH CLEAR ZONE PER CBC 1809A.14

7 TRENCHING
SCALE: NONE

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	date	issue description
2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

REGISTERED LANDSCAPE ARCHITECT — JAMES ONGE — No. 5991 — 6/30/2026 Renewal Date — 12/17/2024 Date — L.A. — STATE OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: DEC 17, 2024

IRRIGATION DETAILS

L3.3

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WATER USE ESTIMATION & IRRIGATION SCHEDULE - EXISITNG CONTROLLER 'E'

WATER TYPE	NON-POTABLE
CITY	Hayward
ETO	44.1
DATE	5/6/2024

Nearest City to project with published ET data

REGULAR LANDSCAPE AREAS

STATION/HYDROZONE	GPM	AREA (sq.ft) (HA)	WATER USE TYPE (LW=LOW, MW=MOD, HW=HIGH)	PLANT TYPE	IRRIGATION TYPE	PLANT FACTOR (PF)	IRRIGATION EFFICIENCY (IE)	PRECIP. RATE/ APPLICATION RATE (IN/HR)	ETAF (PF/IE)	CYCLES PER DAY	DAYS PER WEEK	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ETWU (GALLONS PER YEAR)	PERCENTAGE OF LANDSCAPE
												MONTHLY ETO													
												1.4	1.8	3.1	4.2	5.4	5.9	6.4	5.7	4.4	3.1	1.5	1.2		
												TOTAL RUN TIME IN MINUTES PER DAY													
E-14	13	900	MW	SHRUB GC LW	BUBBLER (SHRUB)	0.5	0.81	0.85	0.6	2	3	0.0	0.0	11.0	14.0	18.0	20.0	21.0	19.0	15.0	11.0	5.0	0.0	15,190	10%
E-15	13	918	LW	BIOSWALE LW	BUBBLER (SHRUB)	0.3	0.81	0.85	0.4	2	4	0.0	0.0	5.0	7.0	8.0	9.0	10.0	9.0	7.0	5.0	3.0	0.0	9,296	11%
E-16	24	1692	LW	SHRUB GC LW	BUBBLER (SHRUB)	0.3	0.81	0.85	0.4	2	3	0.0	0.0	7.0	9.0	11.0	12.0	13.0	12.0	9.0	7.0	3.0	1.0	17,134	19%
E-17	6	240	MW	TREE MW	BUBBLER (TREE) 0.5 GPM	0.5	0.81	1.5	0.6	2	3	0.0	0.0	6.0	8.0	11.0	11.0	12.0	11.0	9.0	6.0	3.0	0.0	4,051	3%
E-18	5	400	MW	TREE MW	BUBBLER (TREE) 0.5 GPM	0.5	0.81	1.5	0.6	2	3	0.0	0.0	6.0	8.0	11.0	11.0	12.0	11.0	9.0	6.0	3.0	0.0	6,751	5%
E-19	6	378	LW	BIOSWALE LW	BUBBLER (SHRUB)	0.3	0.81	0.85	0.4	2	4	0.0	0.0	5.0	7.0	8.0	9.0	10.0	9.0	7.0	5.0	3.0	0.0	3,828	4%
E-20	12	864	LW	SHRUB GC LW	BUBBLER (SHRUB)	0.3	0.81	0.85	0.4	2	3	0.0	0.0	7.0	9.0	11.0	12.0	13.0	12.0	9.0	7.0	3.0	0.0	8,749	10%
E-21	18	1314	LW	SHRUB GC LW	BUBBLER (SHRUB)	0.3	0.81	0.85	0.4	2	3	0.0	0.0	7.0	9.0	11.0	12.0	13.0	12.0	9.0	7.0	3.0	0.0	13,306	15%
E-22	6	480	MW	TREE MW	BUBBLER (TREE) 0.5 GPM	0.5	0.81	1.5	0.6	2	3	0.0	0.0	6.0	8.0	11.0	11.0	12.0	11.0	9.0	6.0	3.0	0.0	8,101	6%
E-23	10	670	LW	BIOSWALE LW	BUBBLER (SHRUB)	0.3	0.81	0.85	0.4	2	4	0.0	0.0	5.0	7.0	8.0	9.0	10.0	9.0	7.0	5.0	3.0	0.0	6,785	8%
E-24	4	320	MW	TREE MW	BUBBLER (TREE) 0.5 GPM	0.5	0.81	1.5	0.6	2	3	0.0	0.0	6.0	8.0	11.0	11.0	12.0	11.0	9.0	6.0	3.0	0.0	5,401	4%
E-25	7	504	LW	SHRUB GC LW	BUBBLER (SHRUB)	0.3	0.81	0.85	0.4	2	3	0.0	0.0	7.0	9.0	11.0	12.0	13.0	12.0	9.0	7.0	3.0	1.0	5,104	6%
	TOTAL	8,680																					TOTAL	86,407	83%

SPECIAL LANDSCAPE AREAS

HYDROZONE #	HYDROZONE NAME	AREA (sq.ft) (HA)	Percentage of Landscape
			0%

MAWA	GALLONS/YR	106,798
	ACRE FEET/YR	0.33
	HCF/YR	142.78

ETWU	GALLONS/YR	86,407
	ACRE FEET/YR	0.27
	HCF/YR	115.52

SITE IRRIGATION EFFICIENCY	SITE PLANT FACTOR	MAWA COMPLIANT
67.1%	0.29	YES

ETAF Calculations	
REGULAR LANDSCAPE AREAS	
TOTAL ETAF x AREA	3,160
TOTAL AREA	8,680
AVG. ETAF	36.41%

THE IRRIGATION VALVE SCHEDULE SHOWN ABOVE IS INTENDED TO BE USED AS A GUIDELINE ONLY AND INDICATES THE APPROXIMATE RUN TIMES IN MINUTES FOR EACH VALVE BASED ON ESTIMATED WEEKLY WATER REQUIREMENTS FOR ESTABLISHED PLANT MATERIAL. THE TIMES SHOWN ARE APPROXIMATE AND HAVE BEEN DEVELOPED FROM LOCAL AND CURRENT AVERAGES FOR EVAPOTRANSPIRATION, AND REFLECTTHE WATER REQUIREMENTS OF THE PLANT MATERIAL BASED ON PLANT TYPE AND THE APPROXIMATE PRECIPITATION OR APPLICATION RATES OF THE IRRIGATION SYSTEM TYPE. ACTUAL RUN TIMES MAY BE DIFFERENT DEPENDING ON A VARIETY OF FACTORS INCLUDING TOPOGRAPHY, SOIL STRUCTURE, SUN AND WIND EXPOSURE, WEATHER, ACTUAL PLANT WATER REQUIREMENTS, OVERALL PRECIPITATION RATE OF ZONE, ETC.

MAWA FORMULA
MAXIMUM APPLIED WATER ALLOWANCE (MAWA) GALLONS PER YEAR
MAWA = (ETo)(0.62)[(LA x 0.45) + (0.55 x SLA)]

ETo = REFERENCE EVAPOTRANSPIRATION

0.45= ET ADJUSTMENT FACTOR

LA=LANDSCAPED AREA (SQUARE FEET)
0.62 = CONVERSION FACTOR (GALLONS/SQ.FT/YR)

ETWU FORMULA
ESTIMATED TOTAL WATER USE (ETWU) GALLONS PER YEAR
ETWU= ((ETO)(.62)(ETAF x LA))

ETo = REFERENCE EVAPOTRANSPIRATION

PF = PLANT FACTOR FOR HYDROZONES

HA = HYDROZONE AREA (SQ.FT)
0.62 = CONVERSION FACTOR (GALLONS/SQ.FT/YR)

IE = IRRIGATION EFFICIENCY (0.81)-BUBBLER/DRIP

IE = IRRIGATION EFFICIENCY (0.75)-ROTORS/SPRAY

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	2022.02.28	SCHEMATIC DESIGN

	date	issue description
2		

REGISTERED LANDSCAPE ARCHITECT
6/30/2026
12/17/2024
STATE OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: DEC 17, 2024

IRRIGATION CALCULATIONS

L3.4

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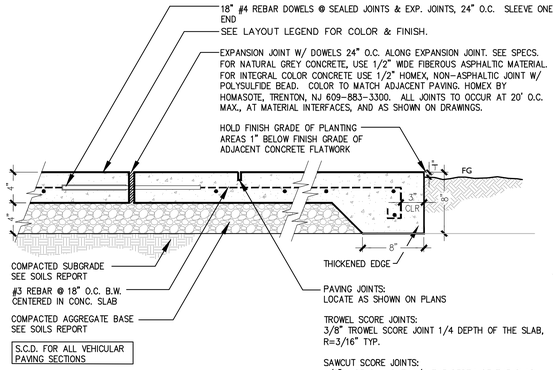
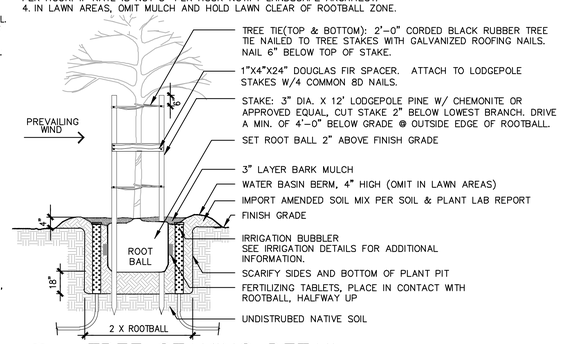
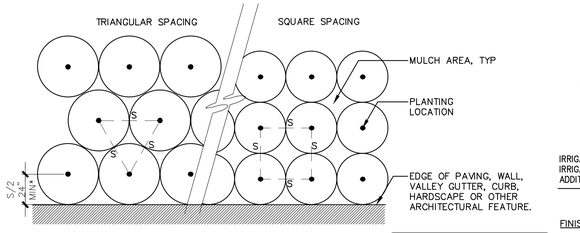


6 PEDESTRIAN CONCRETE PAVING
SCALE: 1 1/2" = 1'-0"

NOTES:
1. ROOT CONTROL BARRIER MUST BE USED IF TREE IS PLANTED WITHIN 4' OF CURB OR SIDEWALK.
2. RBK ROOTBALL KIT MODEL # : 88-RBK FOR TREES 36" OF ABOVE.
3. CONTRACTOR TO VERIFY PERCOLATION OF PLANTING PIT PRIOR TO PLANTING. PERCOLATION RATE MUST BE 3" PER HOUR. IF RATE IS NOT 3" PER HOUR NOTIFY LANDSCAPE ARCHITECT.
4. IN LAWN AREAS, OMIT MULCH AND HOLD LAWN CLEAR OF ROOTBALL ZONE.



3 TREE STAKING DETAIL
SCALE: 3/8" = 1'-0"

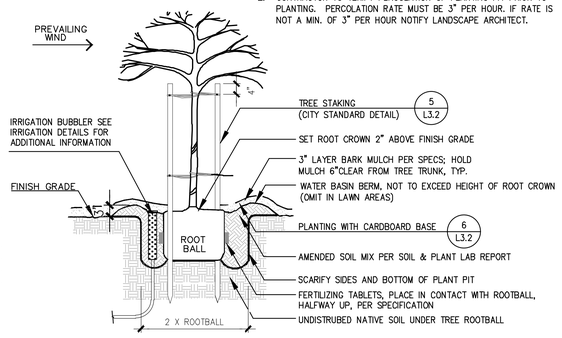


NOTES:
A.S = PLANT SPACING DISTANCE ON CENTER, SEE CHART
B.FOR USE AS A GUIDE FOR SHRUBS AND GROUNDCOVER WHEN PLANTS ARE SPACED EQUIDISTANT FROM EACH OTHER.
*AT ALL SHRUB AND GROUNDCOVER LOCATIONS WHERE SPRAY IRRIGATION IS USED. HOLD PLANTING 24"CLEAR OF CURB LINE IN CONJUNCTION WITH IRRIGATION PER MWELO.

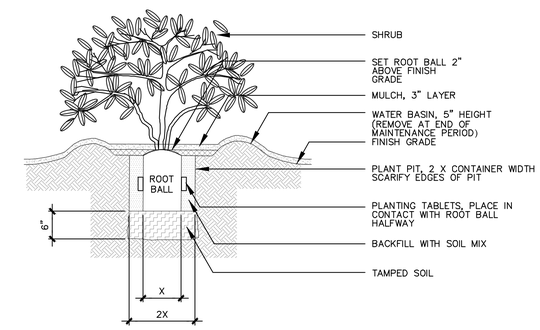
Plant Quantity Chart	
Spacing	# of Plants/S.F.
6" o.c.	4.60
8" o.c.	2.60
12" o.c.	1.15
18" o.c.	.512
24" o.c.	.290
30" o.c.	.185
36" o.c.	.128
42" o.c.	.087
48" o.c.	.063

5 PLANT SPACING
SCALE: N.T.S.

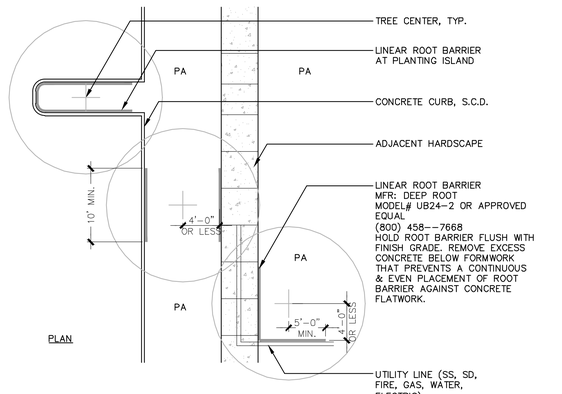
NOTES:
1. ROOT CONTROL BARRIER MUST BE USED IF TREE IS PLANTED WITHIN 5' OF CURB OR SIDEWALK. SEE DETAIL, THIS SHEET
2. CONTRACTOR TO VERIFY PERCOLATION OF PLANTING PIT PRIOR TO PLANTING. PERCOLATION RATE MUST BE 3" PER HOUR. IF RATE IS NOT A MIN. OF 3" PER HOUR NOTIFY LANDSCAPE ARCHITECT.



2 TREE PLANTING
SCALE: 3/8" = 1'-0"



4 SHRUB PLANTING
SCALE: N.T.S.



1 LINEAR ROOT BARRIER
SCALE: 1" = 10'-0"

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12/17/2024
L.A.
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CONSTRUCTION DETAILS

L4.1

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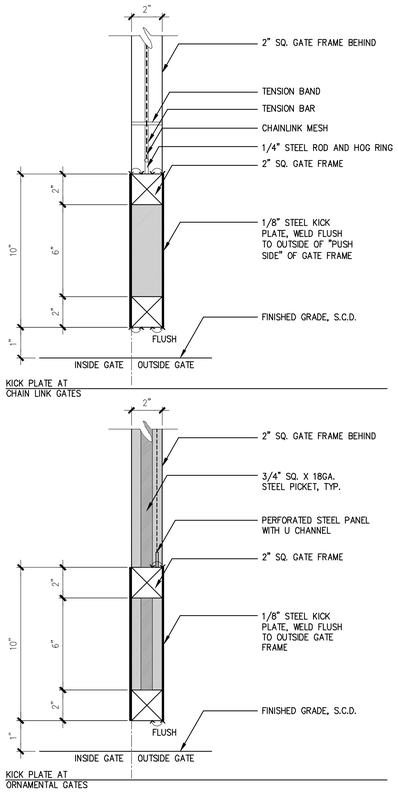
PANIC HARDWARE NOTES:

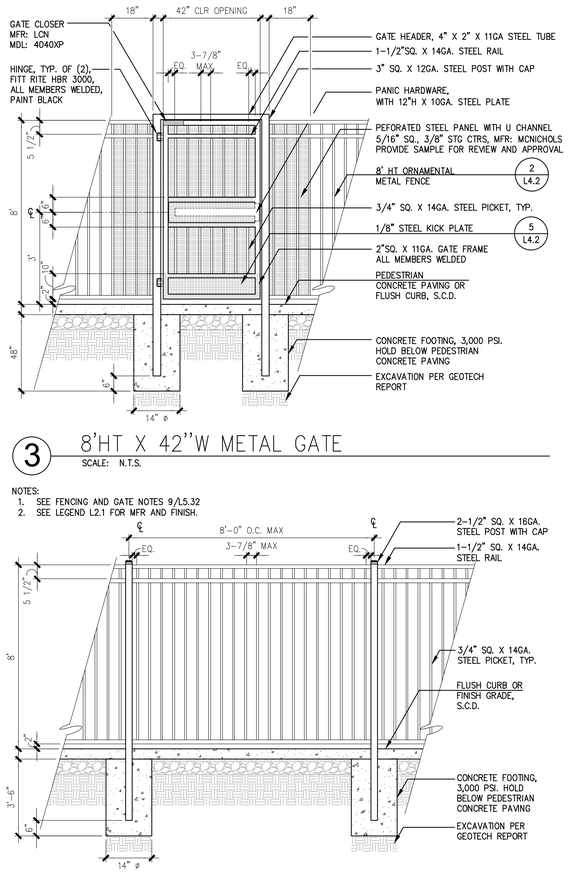
1. PANIC HARDWARE: VON DUPRIN CD98NLXVR910-NL; US26D FINISH. FURNISH AND INSTALL EXIT DEVICES WITH SEX BOLTS.
2. SCHLAGE LEVER PER DISTRICT STANDARDS
3. KEY CORES: SCHLAGE LV SERIES X 17A. CONFIRM KEYING CORE WITH DISTRICT.
4. ALL PANIC HARDWARE ON GATES SHALL HAVE A DOGGING FUNCTION.
5. ALL GATES SHALL HAVE A DOOR BUMPER TO PREVENT OVER EXTENSION OF THE CLOSURE ARM AND PROTECT GATE AND ADJACENT FINISHES.

NOTE:

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION



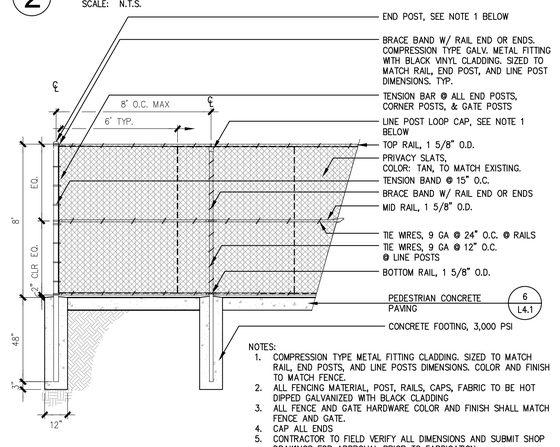
5 KICK PLATE
SCALE: 3" = 1'-0"



3 8'HT X 42''W METAL GATE
SCALE: N.T.S.

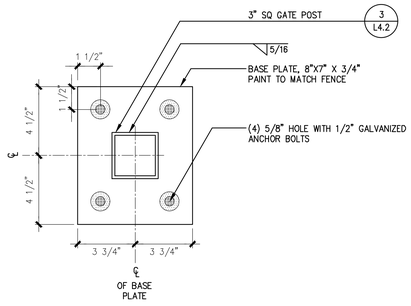
NOTES:
1. SEE FENCING AND GATE NOTES 9/L5.32
2. SEE LEGEND L2.1 FOR MFR AND FINISH.

2 8' HT ORNAMENTAL METAL FENCE
SCALE: N.T.S.



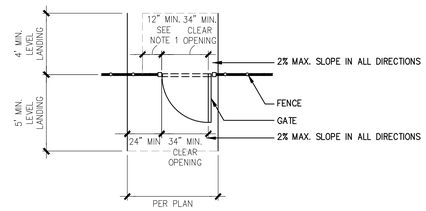
NOTES:
1. COMPRESSION TYPE METAL FITTING CLADDING. SIZED TO MATCH RAIL, END POSTS, AND LINE POSTS DIMENSIONS. COLOR AND FINISH TO MATCH FENCE.
2. ALL FENCING MATERIAL, POST, RAILS, CAPS, FABRIC TO BE HOT DIPPED GALVANIZED WITH BLACK CLADDING
3. ALL FENCE AND GATE HARDWARE COLOR AND FINISH SHALL MATCH FENCE AND GATE.
4. CAP ALL ENDS
5. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION

1 8' HT CHAIN LINK FENCE
SCALE: 1/4" = 1'-0"



6 POST MOUNTING PLATE AT BUILDING
SCALE: 3" = 1'-0"

NOTES:
1. 24" MIN EXTERIOR BEYOND THE STRIKE EDGE OF A GATE ON THE SIDE TOWARD WHICH IT SWINGS.



4 ACCESSIBLE LANDING AT GATE
SCALE: 1/4" = 1'-0"

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project number: 20-296
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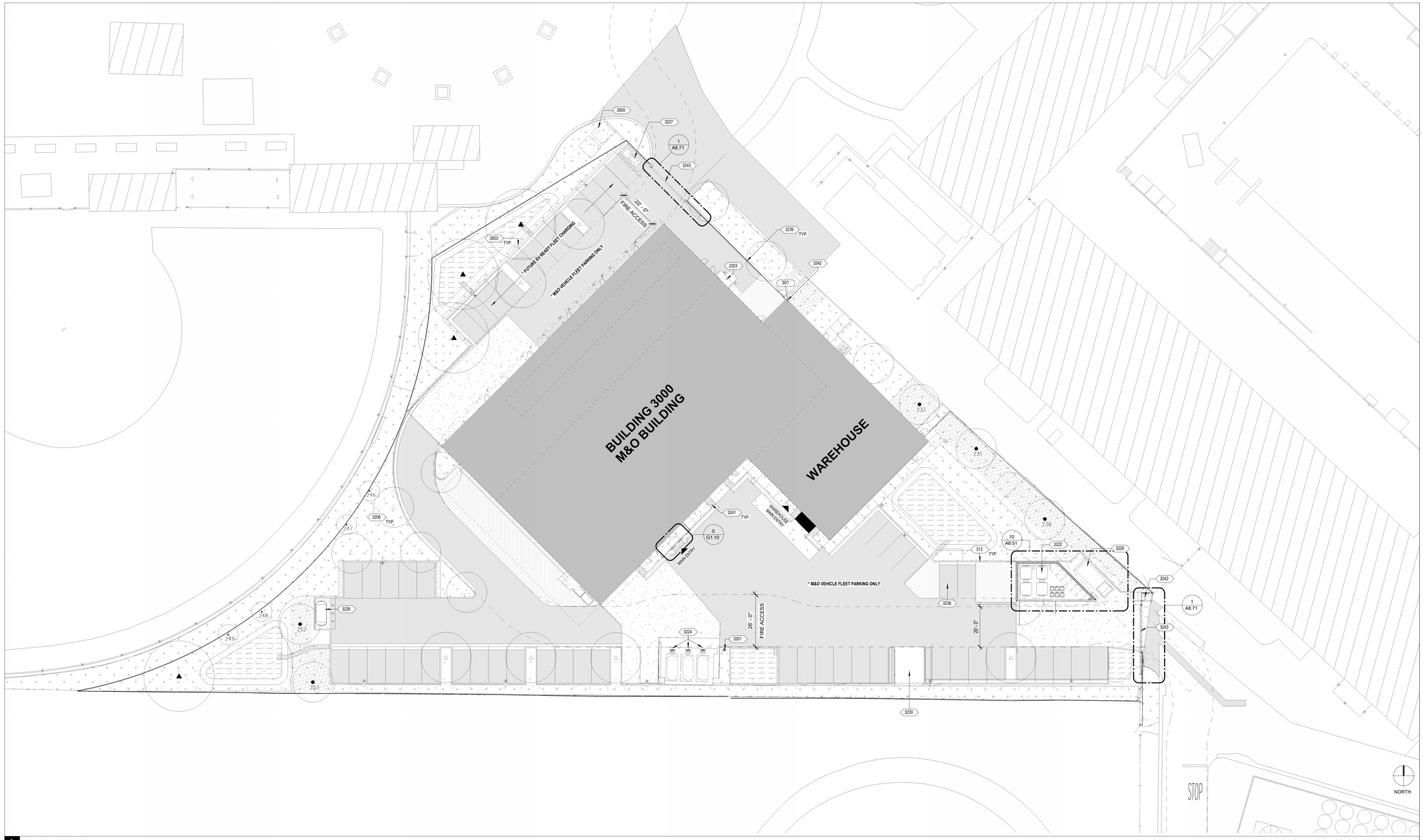
CONSTRUCTION DETAILS

L4.2



1 ENLARGED, PARTIAL SITE PLAN — 1" = 20'-0"

0000 KEYNOTE TAG

313	CONCRETE CURBS, TYP. S.C.D.
2303	DUST COLLECTOR, S.M.D.
2600	TRANSFORMER AND SWITCH, S.E.D., S.C.D.
2603	FUTURE EV VEHICLE CHARGER READY STUB-OUT ELECTRIC , S.E.D.
3201	NEW FIRE HYDRANT, S.C.D.
3206	PLANTING, S.L.D.
3222	RELOCATED DUMPSTERS
3224	(E) FUEL TANKS, TO REMAIN SCD., SED - ELECTRIC REQ.
3226	PROPANE TANK, S.C.D. - 3RD PARTY VENDOR PROVIDED
3227	GENERATOR ON NEW PAD, S.E.D.
3229	ROLL-OFF TRANSPORTABLE TRASH COMPACTOR, S.C.D., S.E.D. [NON-ANCHORED]
3230	(E) GAS MANIFOLD, NIS
3238	VEHICLE WASH DOWN AREA
3239	PERIMETER FENCE
3241	TRUNCATED DOMES, SEE DETAIL 7/G1.10
3242	PEDESTRIAN GATE, S.L.D.
3243	MANUAL SLIDING GATE - TYMETAL MANUFACTURER

KEYNOTE LEGEND

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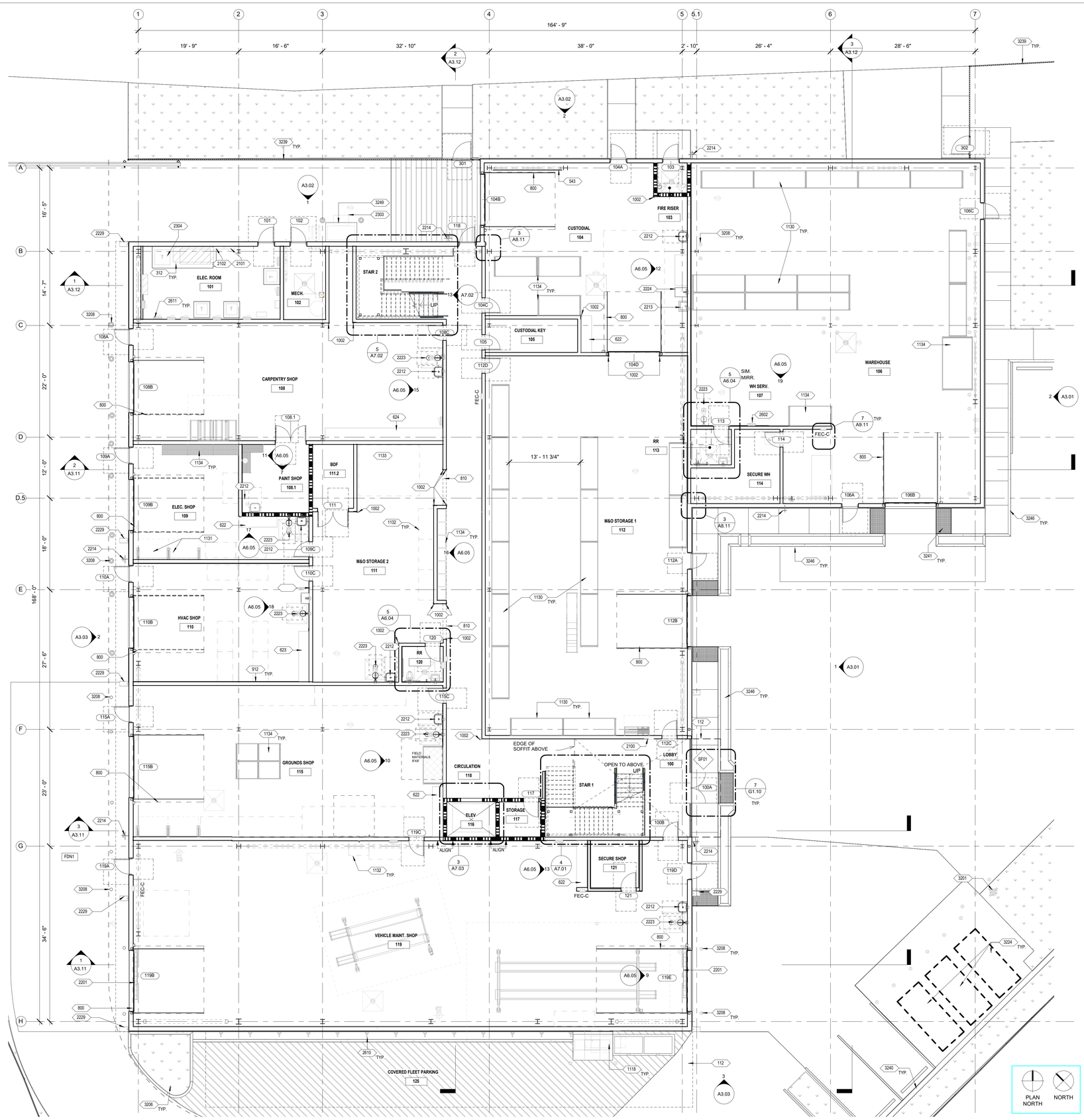
ENLARGED, PARTIAL SITE PLAN

A1.01



1. SEE G0.02 FOR PROJECT GENERAL NOTES.
2. SEE G1.10 SERIES DRAWINGS FOR ACCESSIBILITY DETAILS & CODE SIGNAGE. REQUIREMENTS DESIGN FOR PROJECT SIGNAGE.
3. SEE G1.01 SHEET FOR ACCESSIBLE PARKING STALL, EV STALLS, PARKING, AND SIGNAGE REQUIREMENTS.
4. SEE A2.00A FOR DIMENSION AND WALL TYPE PLANS. SEE A2.00S SERIES DRAWINGS FOR SLAB PLANS.
5. SEE A5 SERIES DRAWINGS FOR FINISH PLANS.
6. SEE A5 SERIES DRAWINGS FOR REFLECTED CEILING PLANS.
7. SEE A8.01 SHEET DRAWINGS FOR EXTERIOR PARTITION TYPES.
8. SEE A8.02 SERIES DRAWINGS FOR EXTERIOR ASSEMBLIES.
9. SEE A9 SERIES DRAWINGS FOR TYPICAL INTERIOR PARTITION TYPES
10. ALL OPEN JOINTS, PENETRATIONS AND OTHER OPENINGS IN THE BUILDING ENVELOPE SHALL BE SEALED, CAULKED, GASKETED AND WEATHER-STRIPPED TO LIMIT AIR LEAKAGE AND MAINTAIN RATED ASSEMBLIES.
11. ALL CONCEALED WOOD BLOCKING SHALL BE FIRE RETARDANT TREATED, TYPICAL.
12. PROVIDE THE REQUIRED BACKING, BRACING, AND BLOCKING FOR ATTACHMENT OF CASEWORK, RESTROOM ACCESSORIES, EQUIPMENT, AND OTHER
13. ALL FURNITURE, APPLIANCES, AND TRASH CANS SHALL BE O.F.C.I., U.O.N.
14. REFER TO EQUIPMENT SCHEDULE A11.01-A11.42 FOR EQUIPMENT/STORAGE LAYOUTS AND SCHEDULES

GENERAL NOTES - FLOOR PLAN

- NEW PARTITION
- 2 HR. FIRE RATED WALL CONSTRUCTION
- A01A — PARTITION TAG
- CW 000 — CURTAIN WALL TAG
- FEC — SEMI-RECESSED FIRE EXTINGUISHING CABINET, SEE FEC TABLE
- FD — FLOOR DRAIN 2% SLOPE TO FD MAX., S.P.D.
- FLOOR CLEANOUT, S.P.D.
- ROOF DRAIN W/ OVERFLOW

FIRE EXTINGUISHER CABINET TYPES

FEC-A	SURFACED MOUNTED
FEC-B	SEMI-RECESS MOUNTED
FEC-C	RECESS MOUNTED

FLOOR PLAN LEGEND

0000 — KEYNOTE TAG

112	CANOPY OUTLINE ABOVE
312	HOUSEKEEPING PADS, SEE A2.01S
543	CANE DETECTABLE BARRIER SEE 16 / A9.51
622	COMPUTER & PHONE STATION - SEE 17 / A9.61
623	COMPUTER & PHONE STATION (MOBILE) - SEE 17 / A9.61
624	BUILT-IN MILLWORK COUNTER - SEE 17 / A9.61
800	MOTOR-ASSIST SECTIONAL OVERHEAD DOOR + TRACK - SEE 15/S5.01 FOR BRACING DETAILS
810	WALL OVERHEAD
912	PLYWOOD FINISH AT SHOP WALLS, TYP. , SEE FINISH PLANS
1002	S.S. CORNER GUARD
1118	EQUIPMENT TYP., SEE A11 SERIES
1130	PALLET RACKS, SEE STORAGE SCHEDULE ON SHEET A11.42
1131	PIPE/CONDUIT HORIZONTAL RACK, SEE STORAGE SCHEDULE ON SHEET A11.42
1132	RACK, SEE STORAGE SCHEDULE ON SHEET A11.42
1133	PAINT STORAGE, SEE STORAGE SCHEDULE ON SHEET A11.42
1134	STORAGE TYP., SEE A11 SERIES
2100	FIRE ALARM ANNUNCIATOR PANEL, S.FA.D.
2101	FIRE ALARM CONTROL PANEL, S.FA.D.
2102	FIRE ALARM DOCUMENT CABINET, S.FA.D.
2201	TRENCH DRAIN, S.P.D.
2212	SINK, S.P.D.
2213	MOP SINK, S.P.D.
2214	HOSE BIB, S.P.D.
2223	EMERGENCY EYE WASH & SHOWER. S.P.D.
2224	DEEP LAUNDRY SINK, S.P.D.
2229	SPLASH BLOCK, S.P.D.
2303	DUST COLLECTOR, S.M.D.
2304	REFER TO MEP DRAWINGS, TYP.
2602	ELECTRICAL EQUIPMENT, S.E.D.
2610	GOLF CART CHARGING RECEPTACLES, S.E.D.
2611	ELECTRICAL EQUIPMENT TYP, S.E.D.
3201	NEW FIRE HYDRANT, S.C.D.
3206	PLANTING, S.L.D.
3208	CONC. FILLED METAL BOLLARD WITH BOLLARD SLEEVE - SCD
3224	(E) FUEL TANKS, TO REMAIN SCD., SED - ELECTRIC REQ.
3239	PERIMETER FENCE
3240	SITE LIGHTING TYP, S.C.D, S.E.D
3241	TRUNCATED DOMES, SEE DETAIL 7/G1.10
3246	CONCRETE CURB, S.C.D.
3249	CONCRETE PAD TYP.

KEYNOTE LEGEND

1 A01 FLOOR PLAN - GROUND LEVEL — 1/8" = 1'-0"

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LICENSED ARCHITECT — C-31015 — RENEWAL DATE — STATE OF CALIFORNIA

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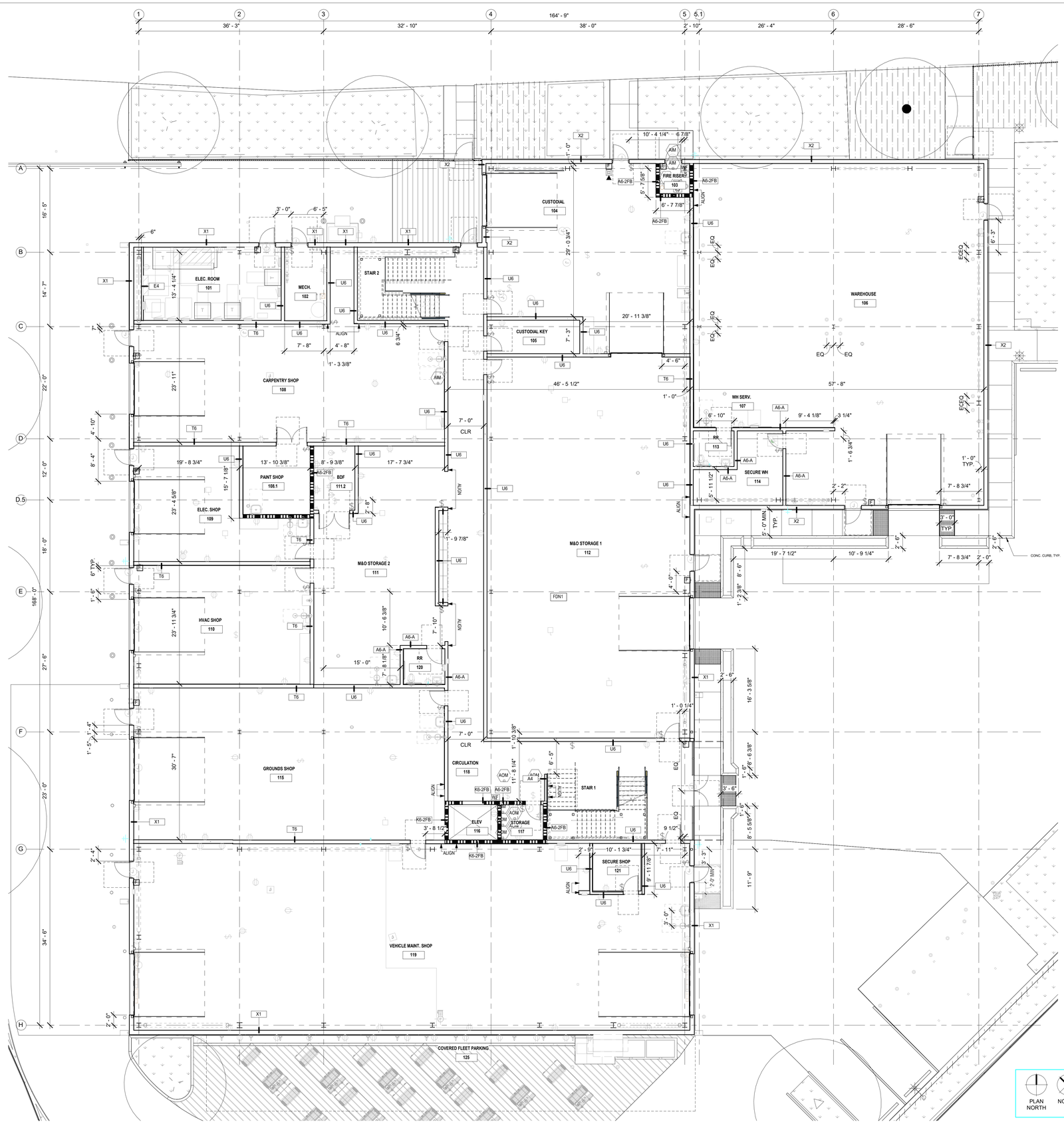
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: DECEMBER 17, 2024

FLOOR PLAN - GROUND LEVEL

A2.01



1 A2.01A DIMENTION PLAN - GROUND LEVEL

1/8" = 1'-0"

A. ALL DIMENSIONS ARE FROM FACE OF FINISH TO FACE OF FINISH, UNO.

B. ALL DOORS TO BE 6" FROM WALLS, UNO.

C. CONTRACTOR TO CHALK / MARK-OUT ALL WALLS AND OPENINGS PRIOR TO INSTALLATION AND PROVIDE ACTUAL DIMENSIONS FOR ALL DIMENSIONS INDICATED TO BE FIELD VERIFIED (V.I.F.). NOTIFY ARCHITECT ONCE MARKINGS ARE COMPLETE FOR FIELD-WALK.

D. GC TO COORDINATE FINAL LOCATIONS OF FLOOR SINKS PER STRUCTURAL DWGS.

E. FOR RESTROOM DIMENSIONS & WALL TYPES, SEE SHEET A6.01.

F. FOR STAIR DIMENSIONS & WALL TYPES, SEE SHEETS A7.01 AND A7.02.

G. REFER TO LANDSCAPE OR CIVIL FOR ALL SITE FLATWORK, PAVING, PEDESTRIAN WALKWAYS, & CONTROL JOINT SPACING DIMENSIONS.

H. SEE A8.01 SHEET DRAWINGS FOR EXTERIOR PARTITION TYPES.

J. SEE A8.02 SERIES DRAWINGS FOR EXTERIOR ASSEMBLIES.

K. SEE A9 SERIES DRAWINGS FOR TYPICAL INTERIOR PARTITION TYPES

L. SEE A5 SERIES DRAWINGS FOR TYPICAL WALL AND FLOOR FINISHES

DIMENSION PLAN NOTES

0000 KEYNOTE TAG

KEYNOTE LEGEND

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2	2024.12.17	DSA PC2
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	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

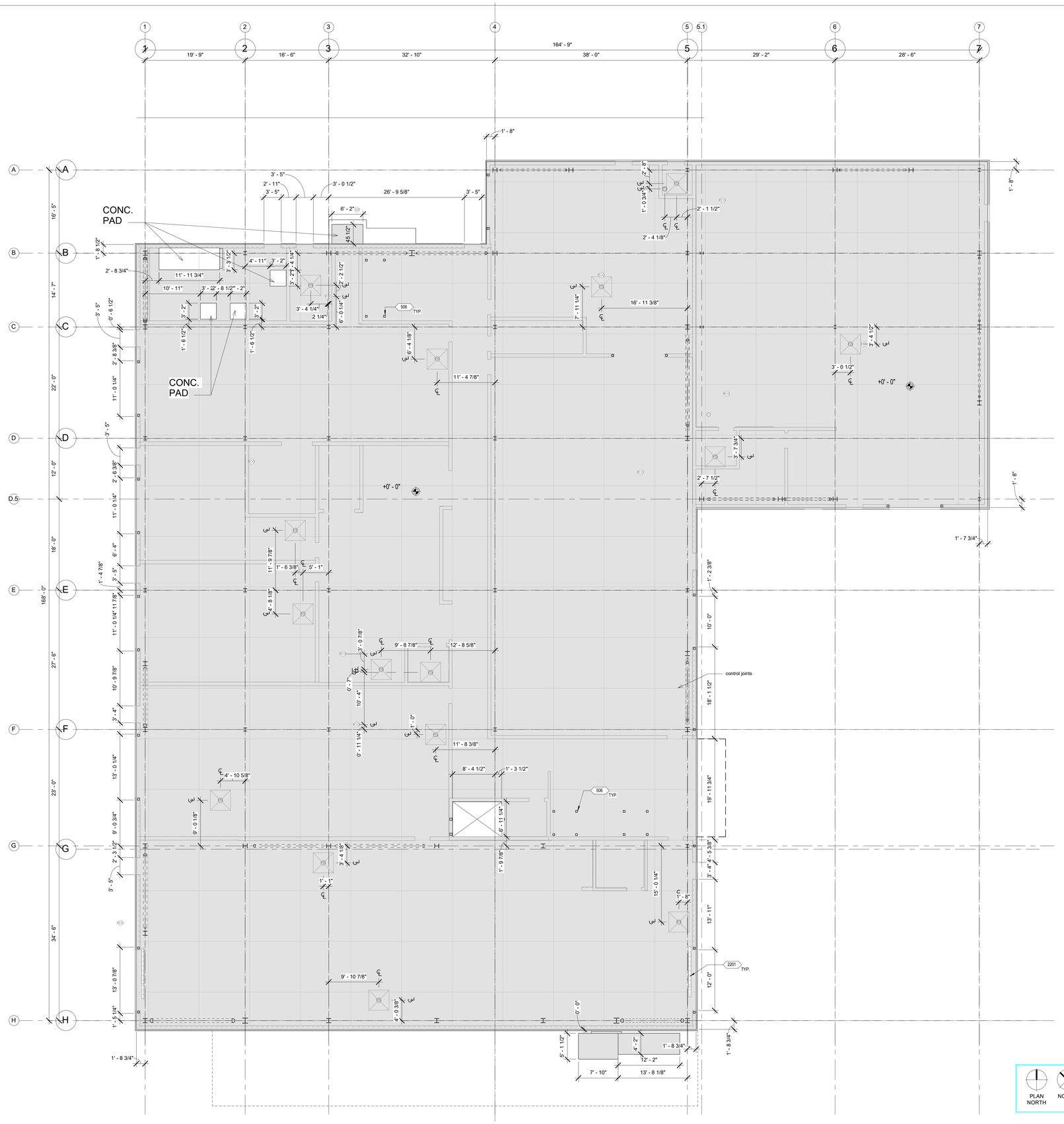
REGISTERED ARCHITECT
C-31115
RENEWAL DATE
STATE OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

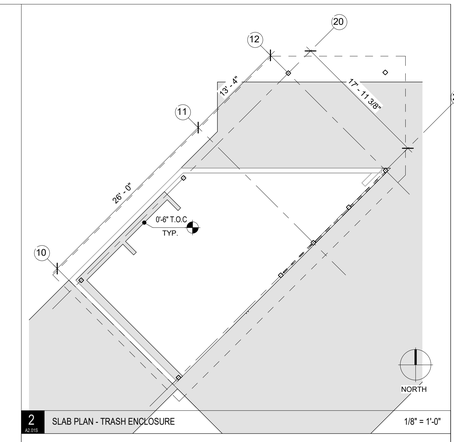
project number: 20-296
date: DECEMBER 17, 2024

DIMENSION & WALL TYPE PLAN - GROUND LEVEL

A2.01A



1 A2.01S SLAB PLAN - GROUND FLOOR 1/8" = 1'-0"



2 A2.01S SLAB PLAN - TRASH ENCLOSURE 1/8" = 1'-0"

A. SEE FINISH FLOOR PLANS FOR CONCRETE FLOOR FINISHES. UNLESS OTHERWISE NOTED SEE SPECS FOR VERTICAL CONCRETE SURFACES.

B. ALL SPOT ELEVATIONS ARE RELATIVE TO CURRENT LEVEL = +0'-0"

C. SEE OVERALL FLOOR PLANS FOR FRAMED WALL LOCATIONS

D. STRUCTURAL STEEL COLUMNS, BEAMS, AND FRAMING SHOWN FOR REFERENCE ONLY

E. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL CONCRETE, FOUNDATION AND FRAMING INFORMATION NOT SHOWN.

F. SEE LANDSCAPE, CIVIL, ELECTRICAL AND STRUCTURAL DRAWINGS FOR SUCH SITE ELEMENTS NOT LIMITED TO EXTERIOR FENCE, BOLLARDS, PLANTER WALLS, LIGHT POSTS, TRASH BINS, STAIRS AND BENCH FOOTINGS NOT SHOWN.

G. SEE MECH., ELECTRICAL, PLUMBING, FIRE ALARM, FIRE PROTECTION AND STRUCTURAL DRAWINGS FOR PENETRATION OF CONC. WALLS AND SLABS FOR EQUIPMENT, DUCTS, PIPES, ETC.

H. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR INFORMATION ON CONCRETE PADS SIZES.

SLAB PLAN GENERAL NOTES

- METAL DECK, S.S.D.
- CONCRETE WALLS, S.S.D.
- CONCRETE CURBS, S.S.D.
- CONCRETE SLAB, S.S.D.
- SLAB BLOCK OUTS (2" DEPRESSION), S.S.D.
- DROPPED CONCRETE SLAB (+2" DEPRESSION), S.S.D.
- 1"/1" SLOPED SURFACE
- FLOOR OPENING
- FD FLOOR DRAIN, S.P.D.
- STORM AND OVERFLOW (TYP. ROOF), S.P.D., S.C.D.
- 8' - 0" / 8' - 0" FLOOR AREA DRAIN TYP. 2% SLOPE TO FD MAX., S.P.D.
- CHANGE IN ELEVATION
- +NN" TOP OF CURB or TOP OF WALL
- +NN" TOP OF SLAB RELATIVE TO PROJECT 0' - 0"
- +NN" TOP OF SLAB RELATIVE TO FLOOR LEVEL

EOS LEGEND

0000 KEYNOTE TAG

506 STEEL POSTS, TYP. S.S.D.
2201 TRENCH DRAIN, S.P.D.

KEYNOTE LEGEND

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	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

REGISTERED ARCHITECT C-31715 LICENSE RENEWAL DATE 08/31/2025 STATE OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
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SLAB PLAN - GROUND LEVEL

A2.01S

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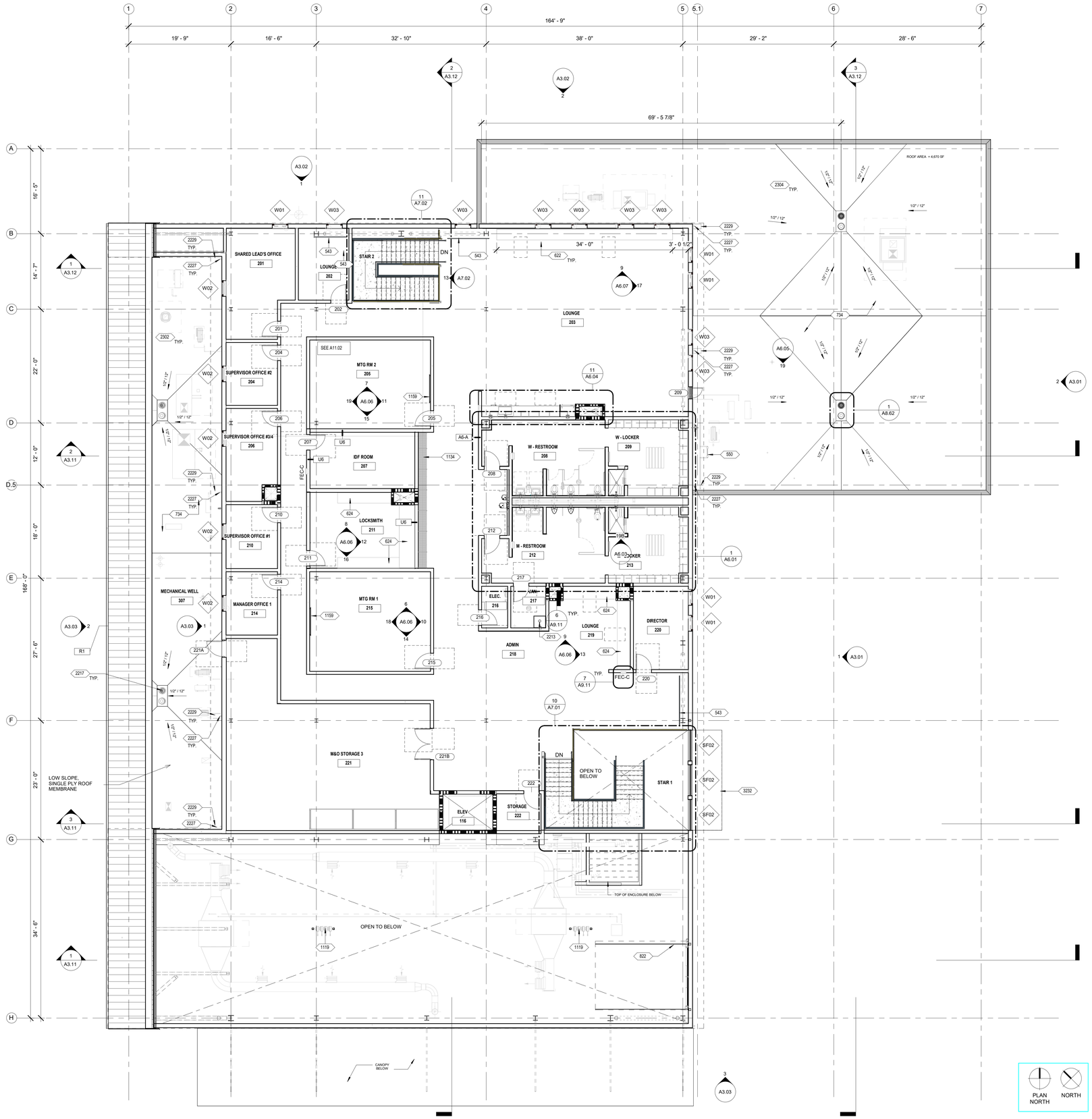

1 FLOOR PLAN - SECOND LEVEL

1/8" = 1'-0"

1. SEE G0.02 FOR PROJECT GENERAL NOTES.
2. SEE G1.10 SERIES DRAWINGS FOR ACCESSIBILITY DETAILS & CODE SIGNAGE. REQUIREMENTS DESIGN FOR PROJECT SIGNAGE.
3. SEE G1.01 SHEET FOR ACCESSIBLE PARKING STALL, EV STALLS, PARKING, AND SIGNAGE REQUIREMENTS.
4. SEE A2.00A FOR DIMENSION AND WALL TYPE PLANS. SEE A2.00S SERIES DRAWINGS FOR SLAB PLANS.
5. SEE A5 SERIES DRAWINGS FOR FINISH PLANS.
6. SEE A5 SERIES DRAWINGS FOR REFLECTED CEILING PLANS.
7. SEE A8.01 SHEET DRAWINGS FOR EXTERIOR PARTITION TYPES.
8. SEE A8.02 SERIES DRAWINGS FOR EXTERIOR ASSEMBLIES.
9. SEE A9 SERIES DRAWINGS FOR TYPICAL INTERIOR PARTITION TYPES
10. ALL OPEN JOINTS, PENETRATIONS AND OTHER OPENINGS IN THE BUILDING ENVELOPE SHALL BE SEALED, CAULKED, GASKETED AND WEATHER-STRIPPED TO LIMIT AIR LEAKAGE AND MAINTAIN RATED ASSEMBLIES.
11. ALL CONCEALED WOOD BLOCKING SHALL BE FIRE RETARDANT TREATED, TYPICAL.
12. PROVIDE THE REQUIRED BACKING, BRACING, AND BLOCKING FOR ATTACHMENT OF CASEWORK, RESTROOM ACCESSORIES, EQUIPMENT, AND OTHER.
13. ALL FURNITURE, APPLIANCES, AND TRASH CANS SHALL BE O.F.C.I., U.O.N.
14. REFER TO EQUIPMENT SCHEDULE A11.01-A11.42 FOR EQUIPMENT/STORAGE LAYOUTS AND SCEHDULES

GENERAL NOTES - FLOOR PLAN

- NEW PARTITION
- 2 HR. FIRE RATED WALL CONSTRUCTION
- A01A — PARTITION TAG
- CW 000 — CURTAIN WALL TAG
- FEC — SEMI-RECESSED FIRE EXTINGUISHING CABINET, SEE FEC TABLE
- FD — FLOOR DRAIN 2% SLOPE TO FD MAX., S.P.D.
- FLOOR CLEANOUT, S.P.D.
- ROOF DRAIN W/ OVERFLOW

FIRE EXTINGUISHER CABINET TYPES

FEC-A	SURFACED MOUNTED
FEC-B	SEMI-RECESS MOUNTED
FEC-C	RECESS MOUNTED

FLOOR PLAN LEGEND

0000 KEYNOTE TAG

543	CANE DETECTABLE BARRIER SEE 16 / A9.51
550	FIXED LADDER / GUARDRAIL WITH SELF-CLOSING GATE, SEE DETAIL 15/A8.62
622	COMPUTER & PHONE STATION - SEE 17 / A9.61
624	BUILT-IN MILLWORK COUNTER - SEE 17 / A9.61
734	SINGLE-PLY ROOFING MEMBRANE
822	SECTIONAL OVERHEAD DOOR TRACKS
1119	HOSE REELS, SEE EQUIPMENT SCHEDULE ON A11.41 - SEE 15/S5.01 FOR BRACING DETAILS
1134	STORAGE TYP., SEE A11 SERIES
1159	MONITOR, S.A.V.D
2213	MOP SINK, S.P.D.
2217	ROOF DRAIN, S.P.D.
2227	DOWNSPOUT, PTD.
2229	SPLASH BLOCK, S.P.D.
3232	SLOPED CORRUGATED METAL CANOPY - SSD

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	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

	date	issue description

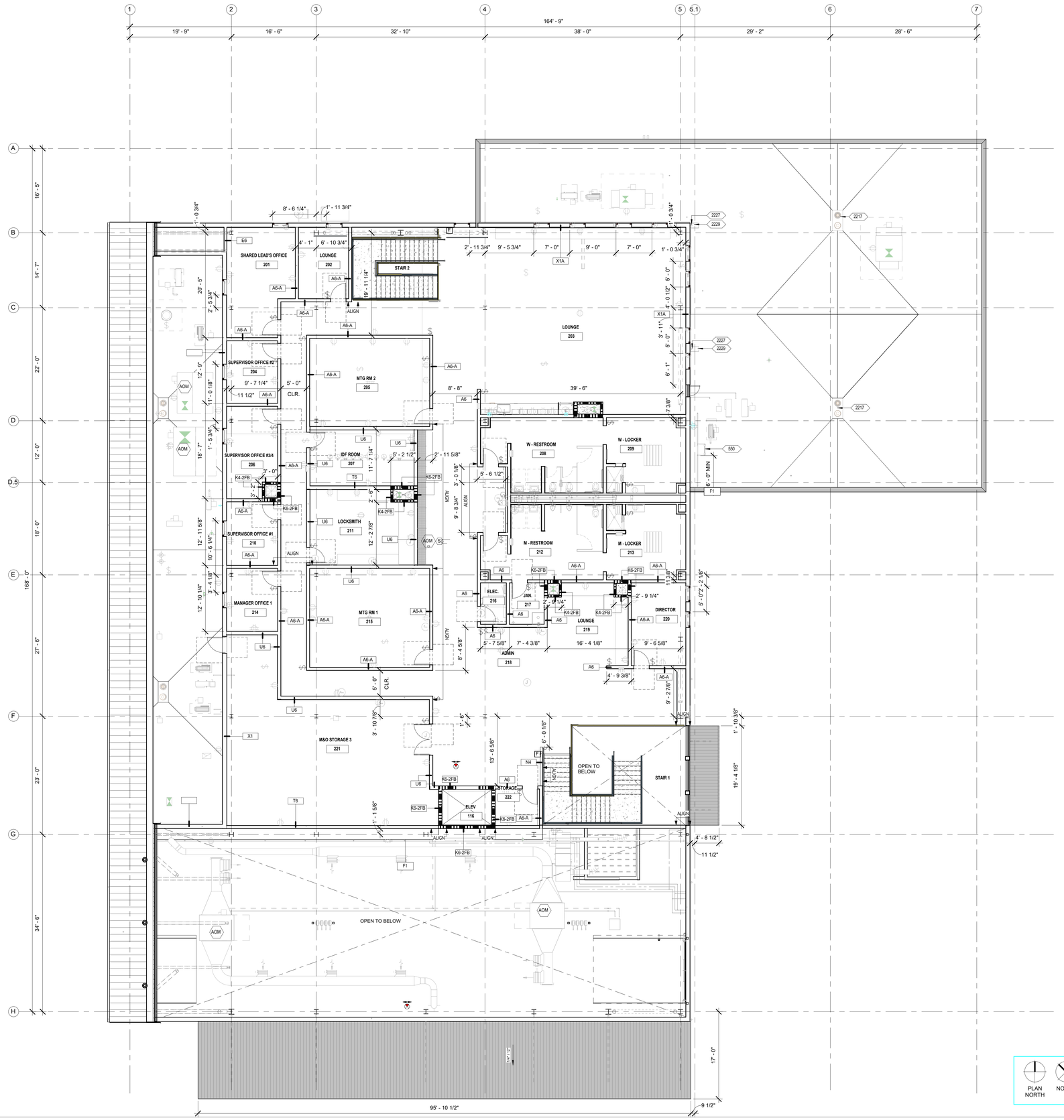
C-31415 — LICENSED ARCHITECT — RENEWAL DATE

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: DECEMBER 17, 2024

FLOOR PLAN - SECOND LEVEL

A2.02



1 DIMENSION PLAN - SECOND LEVEL

1/8" = 1'-0"

A. ALL DIMENSIONS ARE FROM FACE OF FINISH TO FACE OF FINISH, UNO.

B. ALL DOORS TO BE 6" FROM WALLS, UNO.

C. CONTRACTOR TO CHALK / MARK-OUT ALL WALLS AND OPENINGS PRIOR TO INSTALLATION AND PROVIDE ACTUAL DIMENSIONS FOR ALL DIMENSIONS INDICATED TO BE FIELD VERIFIED (V.I.F.). NOTIFY ARCHITECT ONCE MARKINGS ARE COMPLETE FOR FIELD-WALK.

D. GC TO COORDINATE FINAL LOCATIONS OF FLOOR SINKS PER STRUCTURAL DWGS.

E. FOR RESTROOM DIMENSIONS & WALL TYPES, SEE SHEET A6.01.

F. FOR STAIR DIMENSIONS & WALL TYPES, SEE SHEETS A7.01 AND A7.02.

G. REFER TO LANDSCAPE OR CIVIL FOR ALL SITE FLATWORK, PAVING, PEDESTRIAN WALKWAYS, & CONTROL JOINT SPACING DIMENSIONS.

H. SEE A8.01 SHEET DRAWINGS FOR EXTERIOR PARTITION TYPES.

J. SEE A8.02 SERIES DRAWINGS FOR EXTERIOR ASSEMBLIES.

K. SEE A9 SERIES DRAWINGS FOR TYPICAL INTERIOR PARTITION TYPES

L. SEE A5 SERIES DRAWINGS FOR TYPICAL WALL AND FLOOR FINISHES

DIMENSION PLAN NOTES

0000 KEYNOTE TAG

550	FIXED LADDER / GUARDRAIL WITH SELF-CLOSING GATE, SEE DETAIL 15/A8.62
2217	ROOF DRAIN, S.P.D.
2227	DOWNSPOUT, PTD.
2229	SPLASH BLOCK, S.P.D.

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	2022.02.28	SCHEMATIC DESIGN

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25555 HESPERIAN BLVD, HAYWARD, CA 94545

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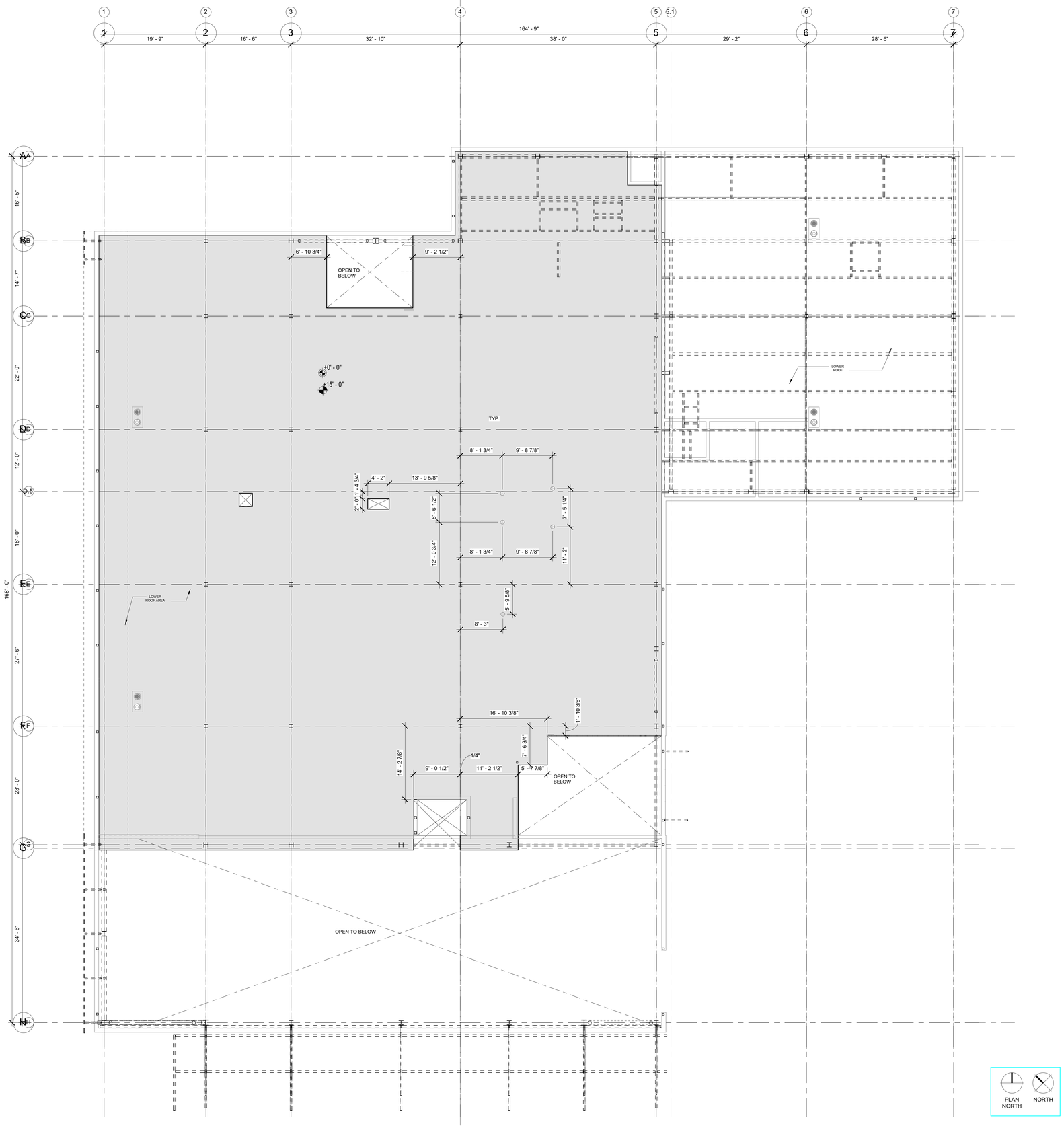
DIMENSION & WALL TYPE PLAN - SECOND LEVEL

A2.02A



1 SLAB PLAN - SECOND FLOOR
A2.02S

1/8" = 1'-0"

A. SEE FINISH FLOOR PLANS FOR CONCRETE FLOOR FINISHES. UNLESS OTHERWISE NOTED SEE SPECS FOR VERTICAL CONCRETE SURFACES.

B. ALL SPOT ELEVATIONS ARE RELATIVE TO CURRENT LEVEL = +0'-0"

C. SEE OVERALL FLOOR PLANS FOR FRAMED WALL LOCATIONS

D. STRUCTURAL STEEL COLUMNS, BEAMS, AND FRAMING SHOWN FOR REFERENCE ONLY

E. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL CONCRETE, FOUNDATION AND FRAMING INFORMATION NOT SHOWN.

F. SEE LANDSCAPE, CIVIL, ELECTRICAL AND STRUCTURAL DRAWINGS FOR SUCH SITE ELEMENTS NOT LIMITED TO EXTERIOR FENCE, BOLLARDS, PLANTER WALLS, LIGHT POSTS, TRASH BINS, STAIRS AND BENCH FOOTINGS NOT SHOWN.

G. SEE MECH., ELECTRICAL, PLUMBING, FIRE ALARM, FIRE PROTECTION AND STRUCTURAL DRAWINGS FOR PENETRATION OF CONC. WALLS AND SLABS FOR EQUIPMENT, DUCTS, PIPES, ETC.

H. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR INFORMATION ON CONCRETE PADS SIZES.

SLAB PLAN GENERAL NOTES

- METAL DECK, S.S.D.
- CONCRETE WALLS, S.S.D.
- CONCRETE CURBS, S.S.D.
- CONCRETE SLAB, S.S.D.
- SLAB BLOCK OUTS (2" DEPRESSION), S.S.D.
- DROPPED CONCRETE SLAB (>2" DEPRESSION), S.S.D.
- 1"/1" SLOPED SURFACE
- FLOOR OPENING
- FD FLOOR DRAIN, S.P.D.
- STORM AND OVERFLOW (TYP. ROOF), S.P.D., S.C.D.
- 8' - 0" / 8' - 0" FLOOR AREA DRAIN TYP. 2% SLOPE TO FD MAX., S.P.D.
- CHANGE IN ELEVATION
- +NN" TOP OF CURB or TOP OF WALL
- +NN" TOP OF SLAB RELATIVE TO PROJECT 0' - 0"
- +NN" TOP OF SLAB RELATIVE TO FLOOR LEVEL

EOS LEGEND

0000 KEYNOTE TAG

KEYNOTE LEGEND

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	2022.02.28	SCHEMATIC DESIGN

△ date issue description

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date: DECEMBER 17, 2024

SLAB PLAN - SECOND LEVEL

A2.02S

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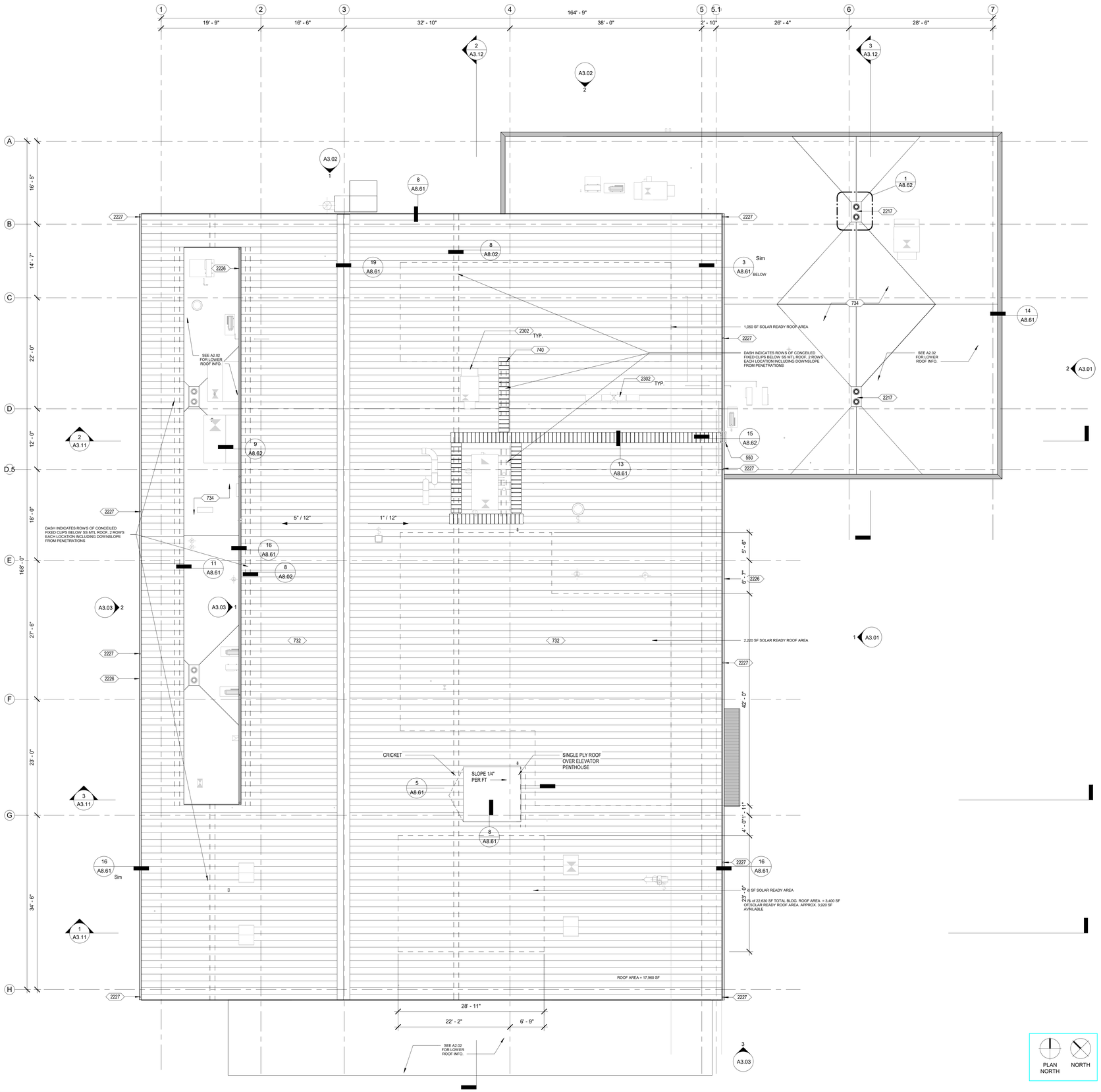
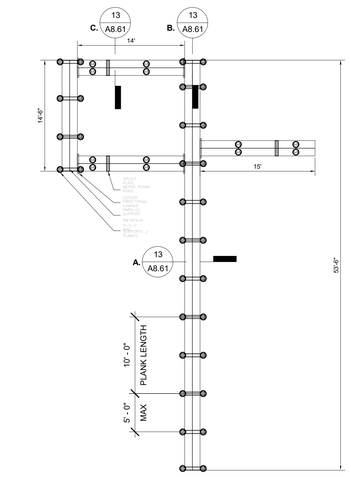


PLAN NORTH NORTH

1 ROOF PLAN
A2.03 1/8" = 1'-0"

* SEE 12/A8.62 FOR ROOF TOP WALKWAY OVERVIEW & 13/8.61 FOR DETAILS



GRATESAFE ROOF WALKWAY
CONTRACTOR: [CUSTOMER]
PROJECT: CHABOT COLLEGE
ORDER: [ORDER #]
DATE: 06/17/24
PARALLEL RW: 70 LINEAL FEET
PERPENDICULAR RW: 50 LINEAL FEET
PARALLEL HR: 0 LINEAL FEET
PERPENDICULAR HR: 0 LINEAL FEET

ROOF TOP WALKWAY LAYOUT

NEW PARTITION
2 HR. FIRE RATED WALL CONSTRUCTION
A01a PARTITION TAG
CW 000 CURTAIN WALL TAG
FEC SEMI-RECESSED FIRE EXTINGUISHING CABINET, SEE FEC TABLE
FD FLOOR DRAIN 2% SLOPE TO FD MAX., S.P.D.
FCO FLOOR CLEANOUT, S.P.D.
ROOF DRAIN W/ OVERFLOW

FIRE EXTINGUISHER CABINET TYPES

FEC-A SURFACED MOUNTED
FEC-B SEMI-RECESS MOUNTED
FEC-C RECESS MOUNTED

FLOOR PLAN LEGEND

0000 KEYNOTE TAG

550 FIXED LADDER / GUARDRAIL WITH SELF-CLOSING GATE, SEE DETAIL 15/A8.62
732 STANDING SEAM METAL ROOF
734 SINGLE-PLY ROOFING MEMBRANE
740 SLIP RESISTANT ROOFTOP WALKWAY - SEE 13/A8.61
2217 ROOF DRAIN, S.P.D.
2226 METAL GUTTER, S.P.D.
2227 DOWNSPOUT, PTD.
2302 MECHANICAL EQUIPMENT, S.M.D.

KEYNOTE LEGEND

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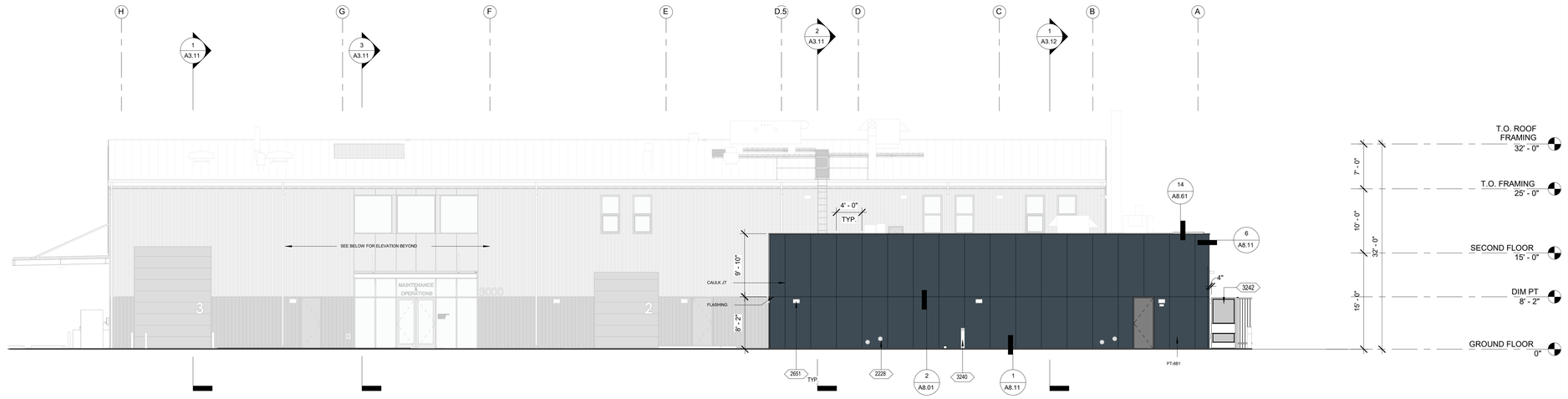
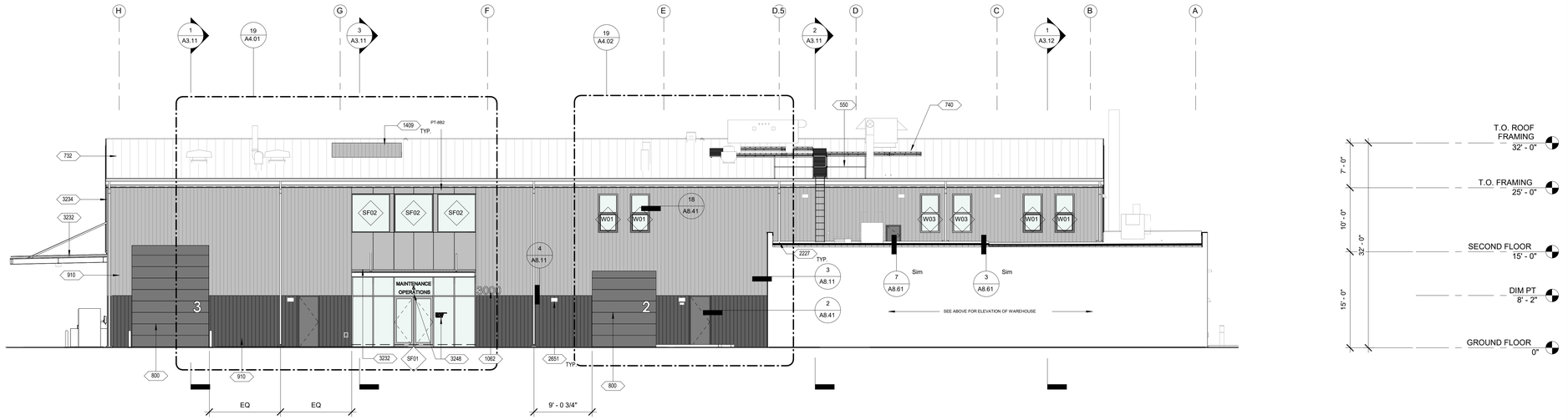
ROOF PLAN

A2.03



2 A3.11 PLAN EAST ELEVATION - WAREHOUSE

1/8" = 1'-0"



1 A3.11 PLAN EAST ELEVATION

1/8" = 1'-0"

MATERIAL TAG

GL-1	CLEAR GLAZING	
CP-1	CEMENTITIOUS PANEL (PT-8B1)	
CP-2	CEMENTITIOUS PANEL (PT-8B2)	
MP-1	CORRUGATED METAL PANEL - PROFILE B (BLUE GRAY)	
MP-2	CORRUGATED METAL PANEL - PROFILE A (CHROMIUM GRAY)	
MP-3	STANDING SEAM METAL ROOF	

REFER TO SPECIFICATIONS FOR INFORMATION NOT INCLUDED HERE.

MATERIAL LEGEND

1. EXTERIOR SWING DOORS SHALL BE PAINTED TO MATCH ADJACENT WALL FINISH COLOR, TYP.
2. ROLL-UP DOORS SHALL BE FACTORY FINISH WITH CUSTOM COLOR.

GENERAL NOTES - EXTERIOR ELEVATION

0000 KEYNOTE TAG

550	FIXED LADDER / GUARDRAIL WITH SELF-CLOSING GATE, SEE DETAIL 15/A8.62
732	STANDING SEAM METAL ROOF
740	SLIP RESISTANT ROOFTOP WALKWAY - SEE 13/A8.61
800	MOTOR-ASSIST SECTIONAL OVERHEAD DOOR + TRACK - SEE 17/SS5.01FOR BRACING DETAILS
910	CORRUGATED METAL PANEL, SEE SHEET A8.01 FOR PANEL TYPE
1062	ALUMINUM CUTOUT ADDRESS SIGNAGE - BUILDING IDENTIFICATION PER CBC 502.1 - SEE 2/ A10.24
1409	ELEVATOR OVERRUN - SEE 5 / A8.61
2227	DOWNSPOUT, PTD.
2228	DOWNSPOUT COVER, S.P.D.
2651	WALL MOUNTED LIGHTING FIXTURE, S.E.D, S.L.T.D.
3232	SLOPED CORRUGATED METAL CANOPY - SSD
3234	DOWNSPOUTS AND SPLASH PANS
3240	SITE LIGHTING TYP, S.C.D, S.E.D
3242	PEDESTRIAN GATE, S.L.D.
3248	VINYL SIGNAGE AT GLAZING - BY SIGNAGE VENDOR

KEYNOTE LEGEND

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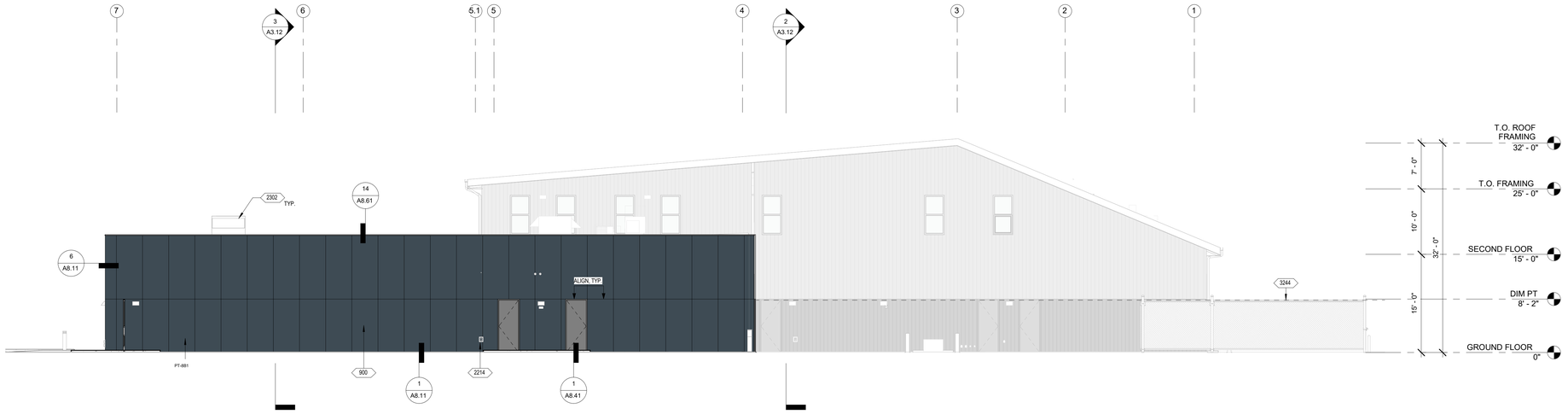
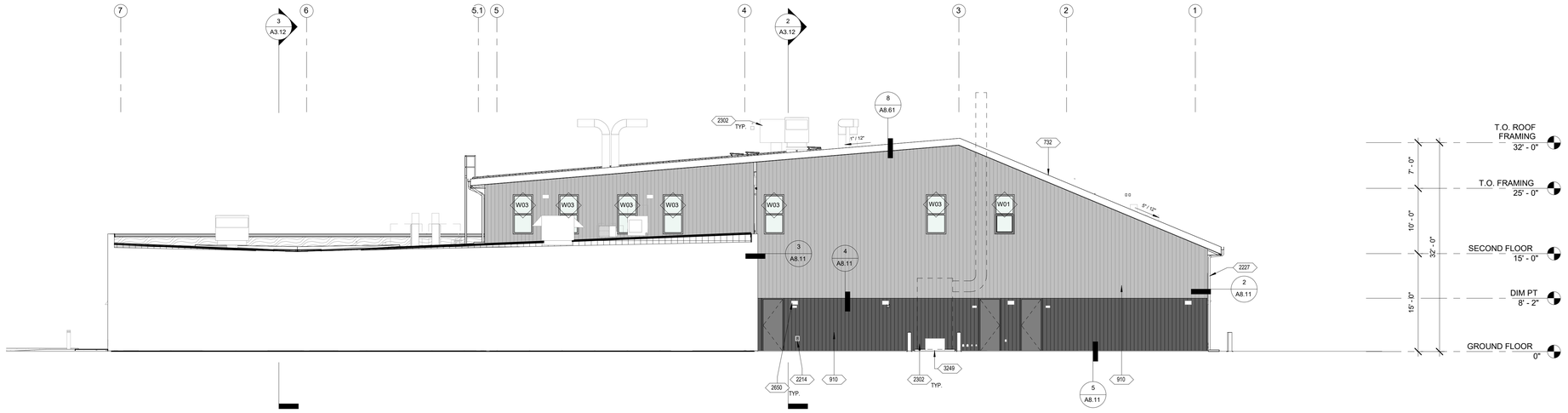
EXTERIOR ELEVATIONS

A3.01



2 PLAN NORTH ELEVATION - WAREHOUSE

1/8" = 1'-0"



1 PLAN NORTH ELEVATION

1/8" = 1'-0"

? MATERIAL TAG

GL-1	CLEAR GLAZING	
CP-1	CEMENTITIOUS PANEL (PT-8B1)	
CP-2	CEMENTITIOUS PANEL (PT-8B2)	
MP-1	CORRUGATED METAL PANEL - PROFILE B (BLUE GRAY)	
MP-2	CORRUGATED METAL PANEL - PROFILE A (CHROMIUM GRAY)	
MP-3	STANDING SEAM METAL ROOF	

REFER TO SPECIFICATIONS FOR INFORMATION NOT INCLUDED HERE.

MATERIAL LEGEND

0000 KEYNOTE TAG

732	STANDING SEAM METAL ROOF
900	FIBER CEMENT BOARD, PTD.
910	CORRUGATED METAL PANEL, SEE SHEET A8.01 FOR PANEL TYPE
2214	HOSE BIB, S.P.D.
2227	DOWNSPOUT, PTD.
2302	MECHANICAL EQUIPMENT, S.M.D.
2650	LIGHTING FIXTURE, S.E.D.
3244	PERIMETER FENCE IN FOREGROUND
3249	CONCRETE PAD TYP.

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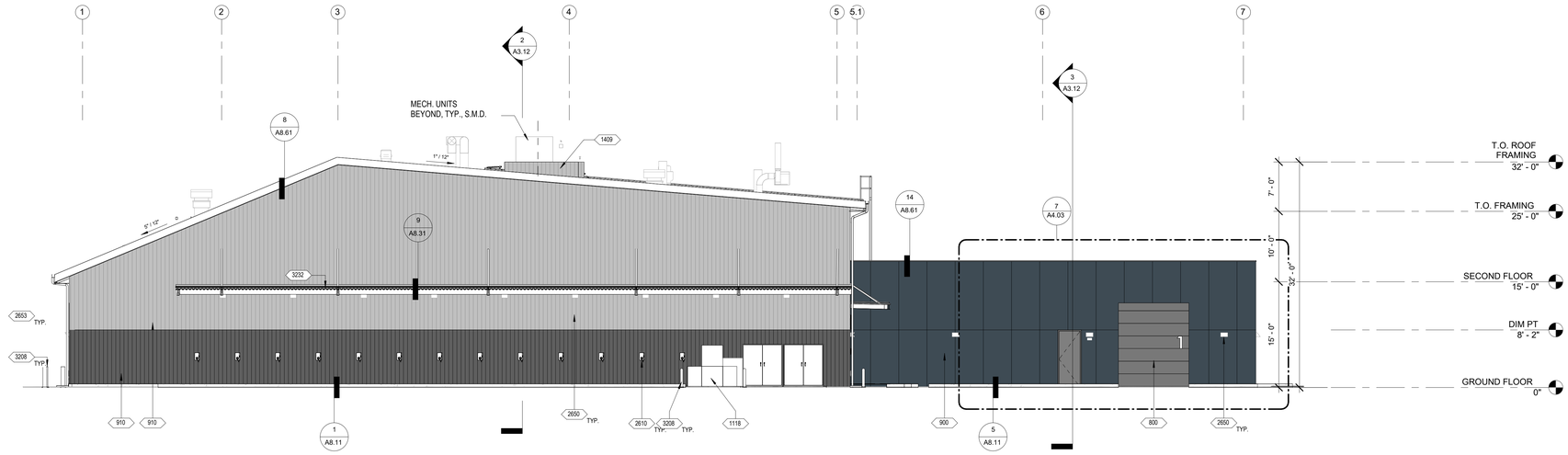
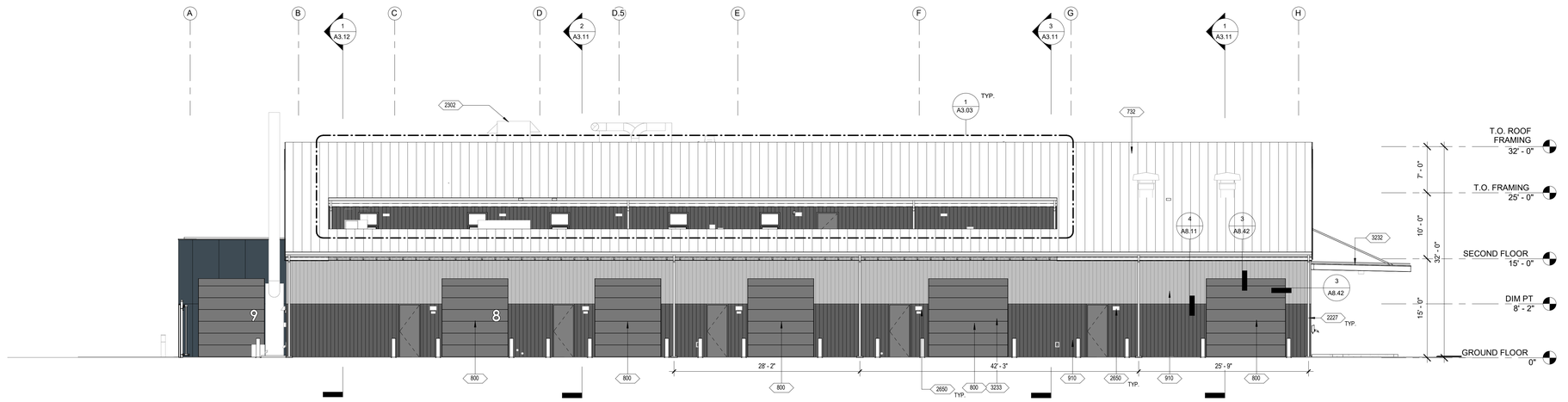
EXTERIOR ELEVATIONS

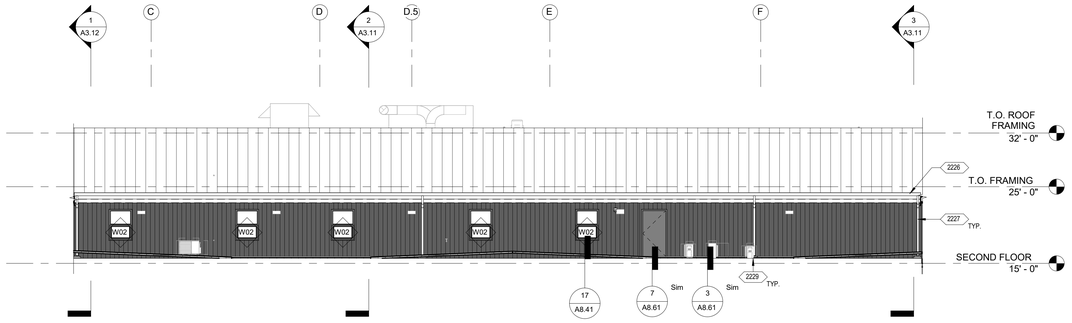
A3.02



3 A3.03 PLAN SOUTH ELEVATION 1/8" = 1'-0"



2 A3.03 PLAN WEST ELEVATION 1/8" = 1'-0"



1 A3.03 PLAN WEST ELEVATION - MECHANICAL WELL 1/8" = 1'-0"

? MATERIAL TAG

GL-1	CLEAR GLAZING	
CP-1	CEMENTITIOUS PANEL (PT-4B1)	
CP-2	CEMENTITIOUS PANEL (PT-8B2)	
MP-1	CORRUGATED METAL PANEL - PROFILE B (BLUE GRAY)	
MP-2	CORRUGATED METAL PANEL - PROFILE A (CHROMIUM GRAY)	
MP-3	STANDING SEAM METAL ROOF	

REFER TO SPECIFICATIONS FOR INFORMATION NOT INCLUDED HERE.

MATERIAL LEGEND

0000 KEYNOTE TAG

732	STANDING SEAM METAL ROOF
800	MOTOR-ASSIST SECTIONAL OVERHEAD DOOR + TRACK - SEE 17/SS.01FOR BRACING DETAILS
900	FIBER CEMENT BOARD, PTD.
910	CORRUGATED METAL PANEL, SEE SHEET A8.01 FOR PANEL TYPE
1118	EQUIPMENT TYP., SEE A11 SERIES
1409	ELEVATOR OVERRUN - SEE 5 / A8.61
2226	METAL GUTTER, S.P.D.
2227	DOWNSPOUT, PTD.
2229	SPLASH BLOCK, S.P.D.
2302	MECHANICAL EQUIPMENT, S.M.D.
2604	ELECTRICAL RECEPTACLE, S.E.D.
2610	GOLF CART CHARGING RECEPTACLES, S.E.D.
2650	LIGHTING FIXTURE, S.E.D.
3208	CONC. FILLED METAL BOLLARD WITH BOLLARD SLEEVE - SCD
3232	SLOPED CORRUGATED METAL CANOPY - SSD
3233	NUMERICAL ADHERED VINYL SUPER GRAPHICS, TYP.

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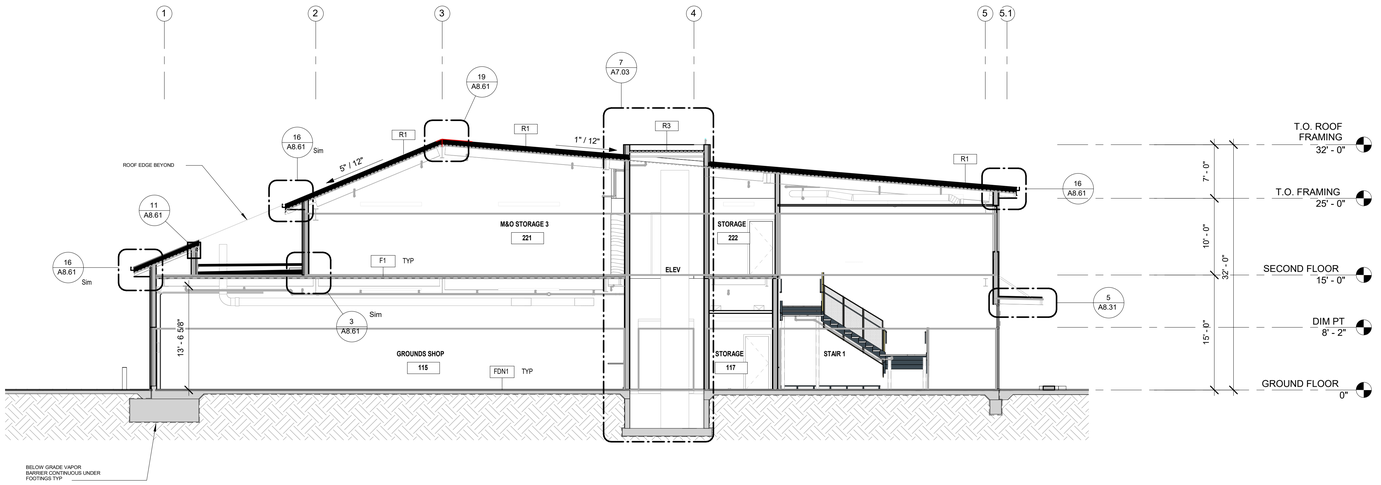
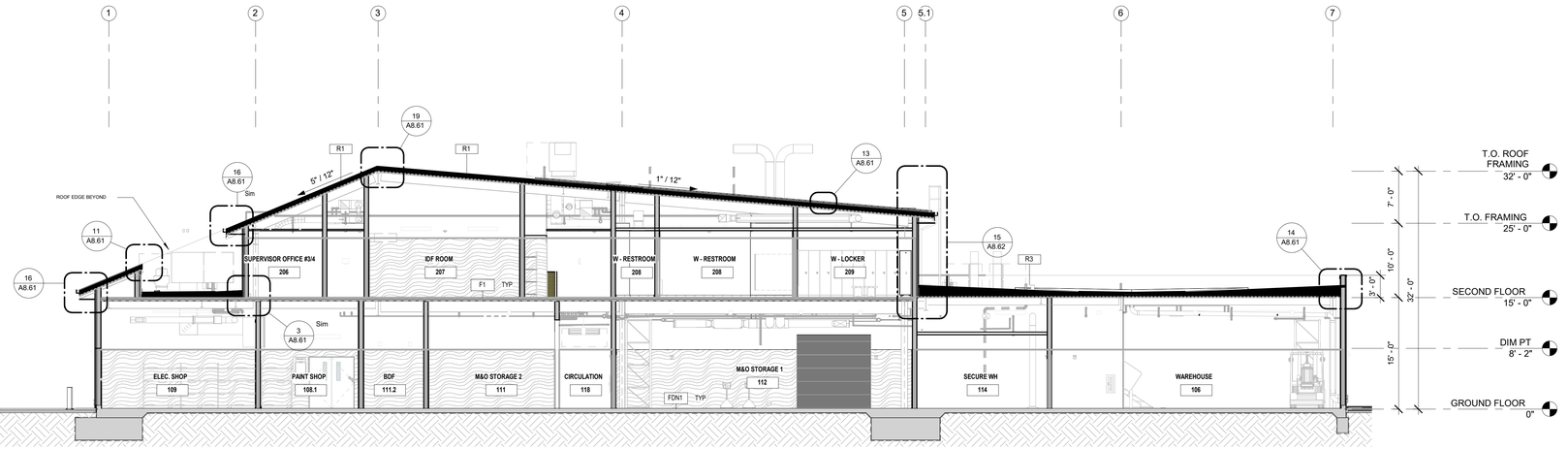
EXTERIOR ELEVATIONS

A3.03



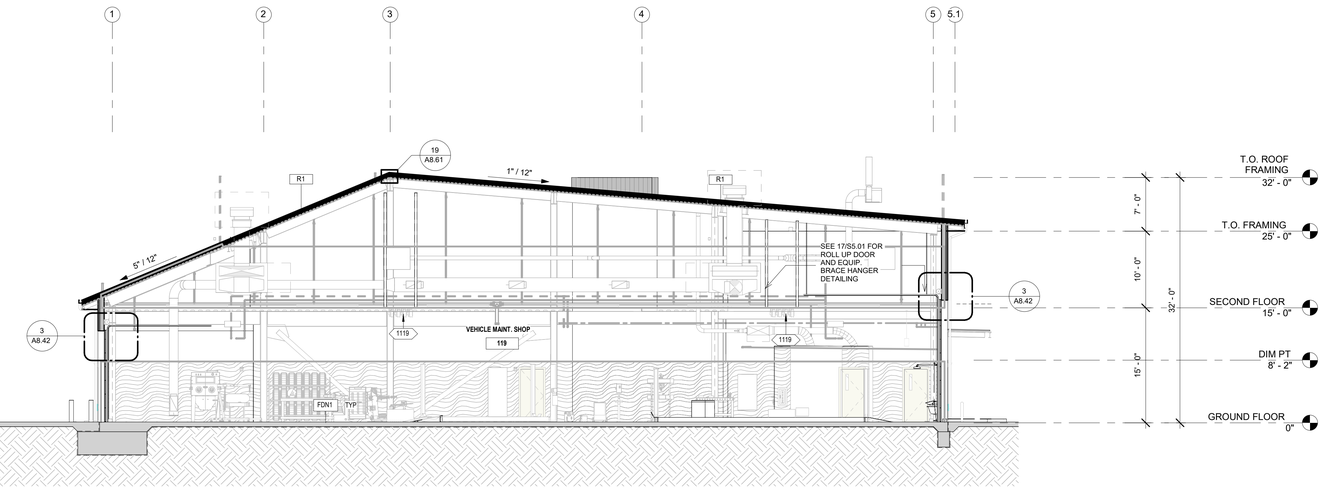
3 A3.11 TRANS. BUILDING SECTION 3

1/8" = 1'-0"



2 A3.11 TRANS. BUILDING SECTION 2

1/8" = 1'-0"



* SEE A8.01 AND A8.02. FOR TYPICAL WALL, FLOOR, AND ROOF ASSEMBLIES

1 A3.11 TRANS. BUILDING SECTION 1

1/8" = 1'-0"

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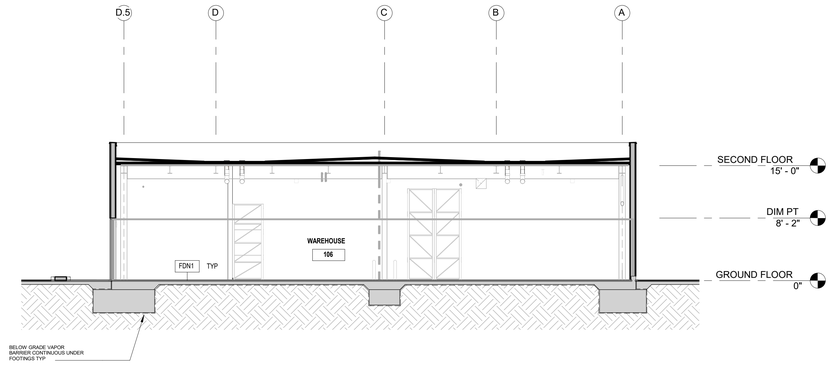
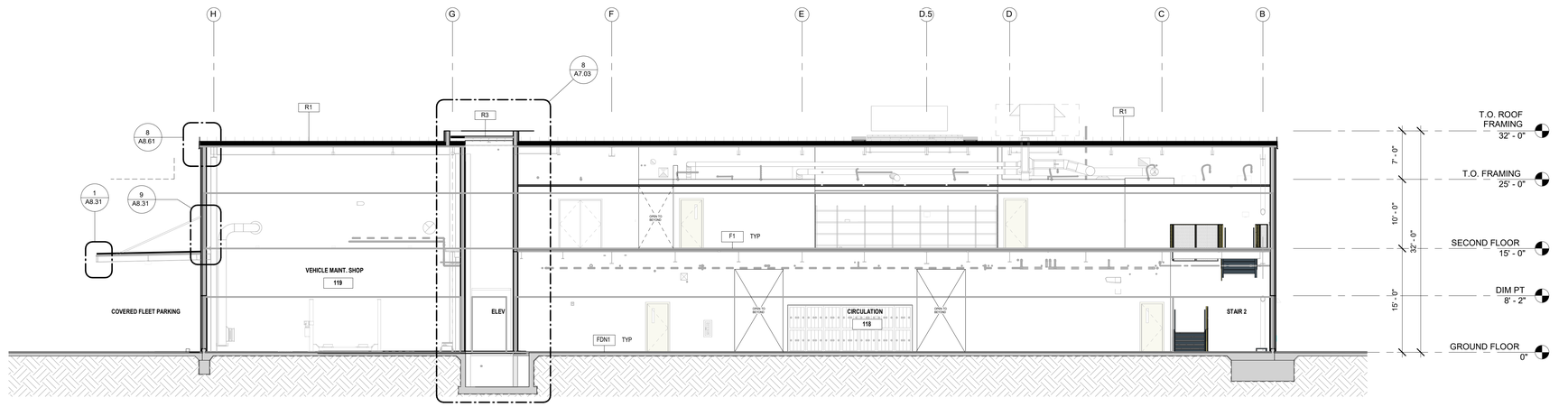
BUILDING SECTIONS

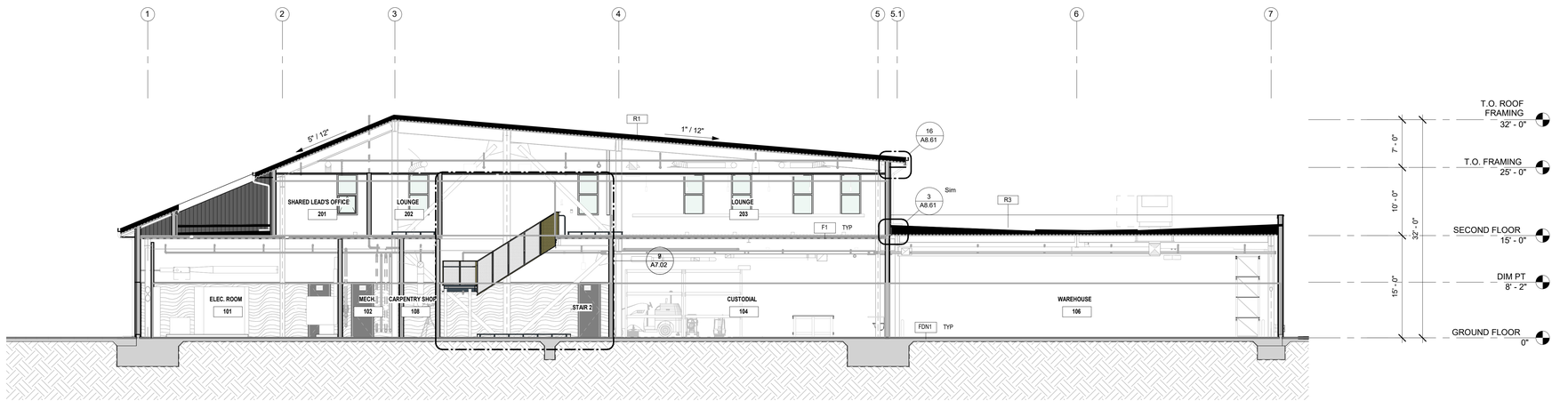
A3.11



3 A3.12 LONG. BUILDING SECTION 2 — 1/8" = 1'-0"



2 A3.12 LONG. BUILDING SECTION 1 — 1/8" = 1'-0"



* SEE A8.01 AND A8.02. FOR TYPICAL WALL, FLOOR, AND ROOF ASSEMBLIES

1 A3.12 TRANS. BUILDING SECTION 4 — 1/8" = 1'-0"

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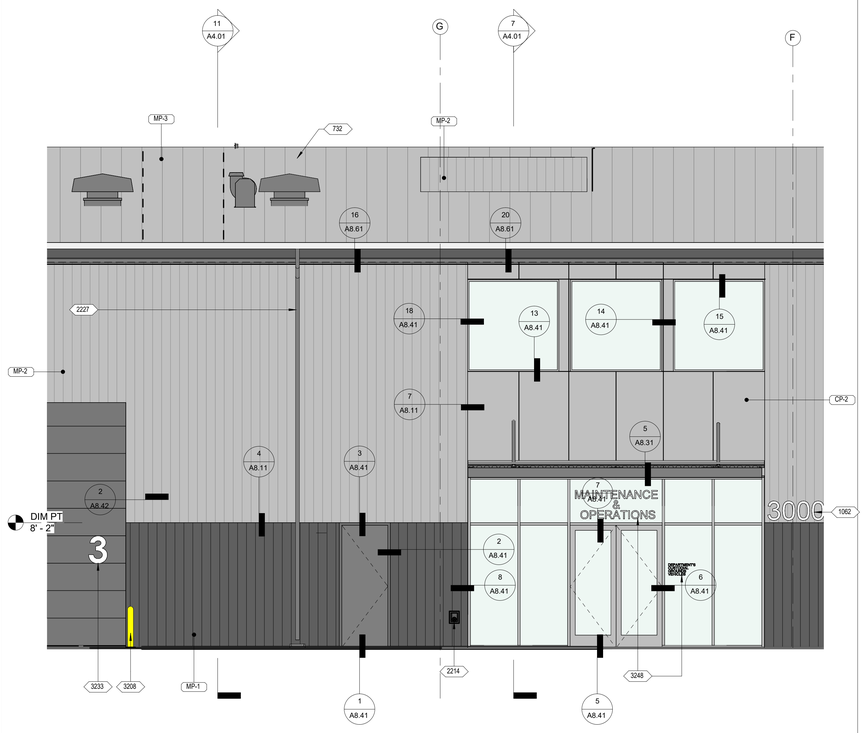
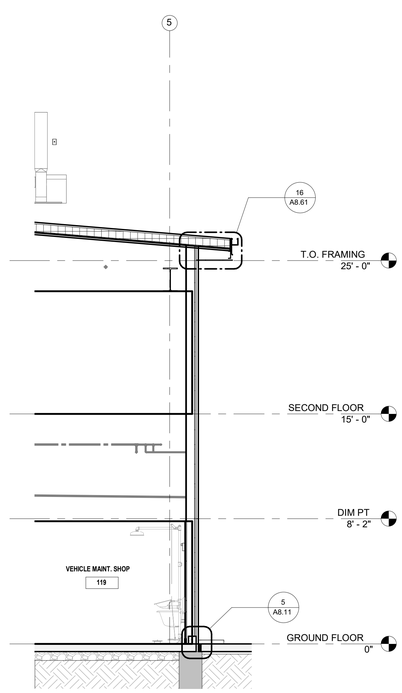
BUILDING SECTIONS

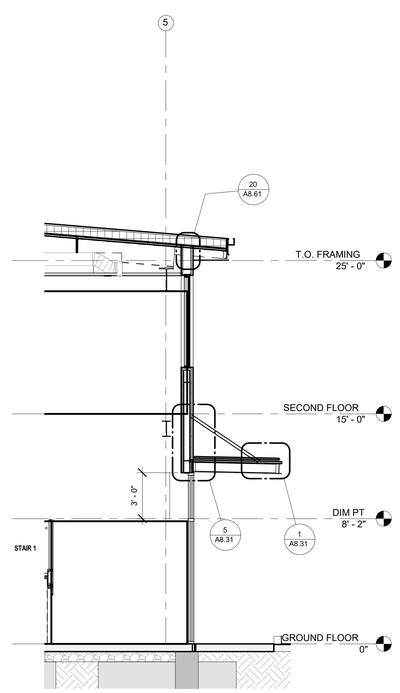
A3.12



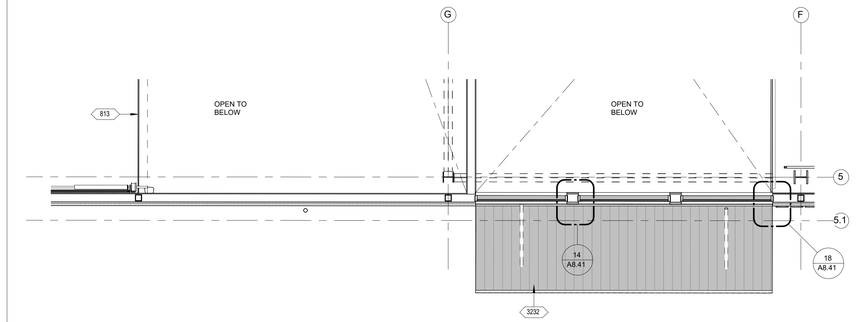
19 A4.01 ENLARGED SOUTH ELEVATION - @ GRID G/5 1/4" = 1'-0"



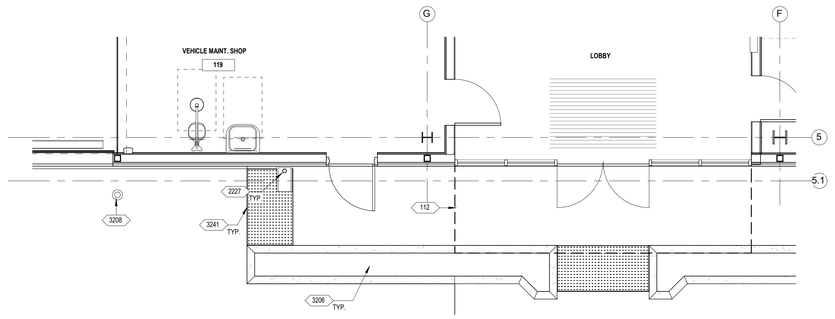
11 A4.01 WALL SECTION @GRID 5 - VEHICLE MAINT. SHOP 1/4" = 1'-0"



7 A4.01 WALL SECTION @ GRID 5 - LOBBY 1/4" = 1'-0"



18 A4.01 ENLARGED FLOOR PLAN - SECOND LEVEL @GRID G/5 1/4" = 1'-0"



17 A4.01 ENLARGED FLOOR PLAN - GROUND LEVEL @ GRID G/5 1/4" = 1'-0"

1. FOR LOCATION OF RATED WALL ASSEMBLIES, SEE A2 SERIES (BUILDING FLOOR PLANS)
2. MODELING OF STRUCTURAL ELEMENTS IS REPRESENTATION ONLY. REFER TO STRUCTURAL DRAWINGS FOR MORE ACCURATE STRUCTURAL DESIGN.

GENERAL SHEET NOTES

? MATERIAL TAG

GL-1	CLEAR GLAZING	
CP-1	CEMENTITIOUS PANEL (PT-6B1)	
CP-2	CEMENTITIOUS PANEL (PT-6B2)	
MP-1	CORRUGATED METAL PANEL - PROFILE B (BLUE GRAY)	
MP-2	CORRUGATED METAL PANEL - PROFILE A (CHROMIUM GRAY)	
MP-3	STANDING SEAM METAL ROOF	

REFER TO SPECIFICATIONS FOR INFORMATION NOT INCLUDED HERE.

MATERIAL LEGEND

0000 KEYNOTE TAG

KEYNOTE LEGEND

112	CANOPY OUTLINE ABOVE
732	STANDING SEAM METAL ROOF
813	OVERHEAD DOOR TRACK, TYP.
1062	ALUMINUM CUTOUT ADDRESS SIGNAGE - BUILDING IDENTIFICATION PER CBC 502.1 - SEE 2/ A10.24
2214	HOSE BIB, S.P.D.
2227	DOWNSPOUT, PTD.
3206	PLANTING, S.L.D.
3208	CONC. FILLED METAL BOLLARD WITH BOLLARD SLEEVE - SCD
3233	NUMERICAL ADHERED VINYL SUPER GRAPHICS, TYP.
3241	TRUNCATED DOMES, SEE DETAIL 7/G1.10
3248	VINYL SIGNAGE AT GLAZING - BY SIGNAGE VENDOR

KEYPLAN - SOUTH ELEVATION

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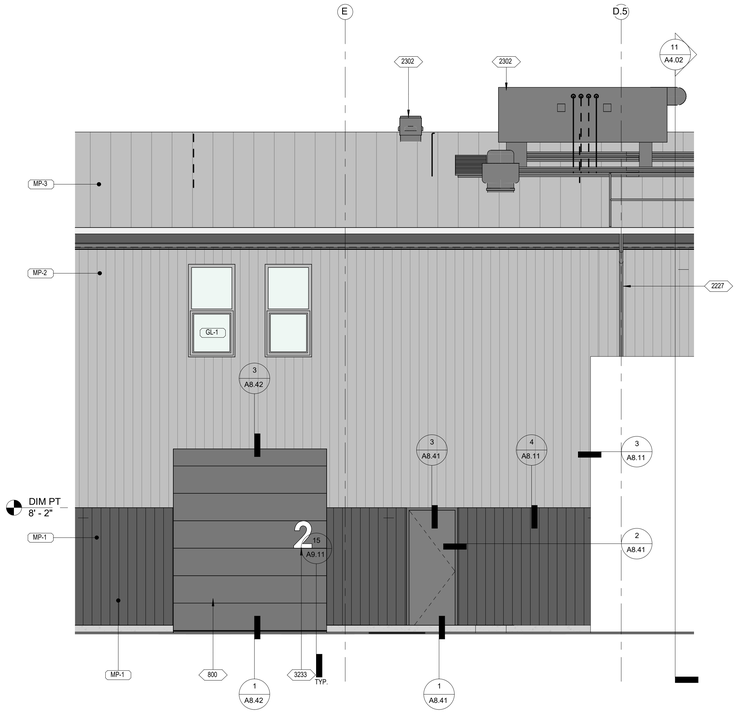
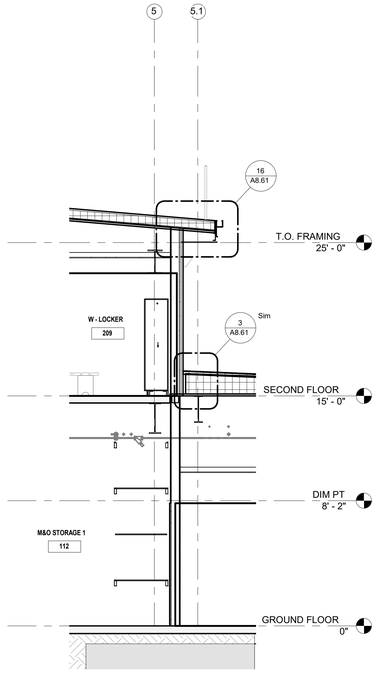
ENLARGED ELEVATIONS & WALL SECTIONS

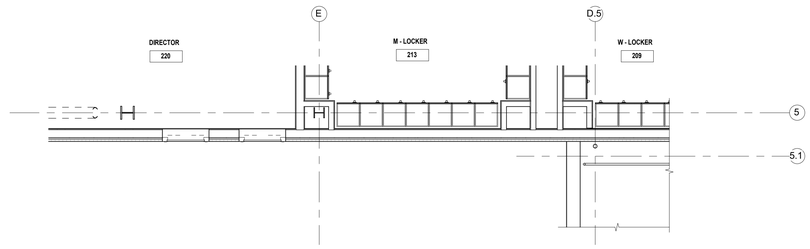
A4.01



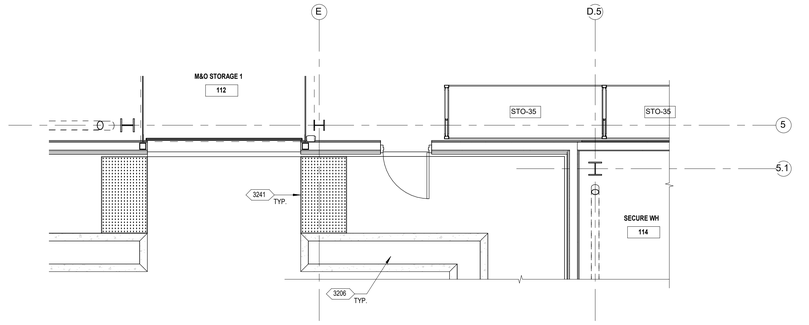
19 A4.02 ENLARGED SOUTH ELEVATION - CORRUGATED METAL PANEL CLADDING 2 1/4" = 1'-0"



11 A4.02 WALL SECTION @ CORRUGATED METAL PANEL CLADING 5 1/4" = 1'-0"



18 A4.02 ENLARGED FLOOR PLAN 2 - SECOND LEVEL 1/4" = 1'-0"



17 A4.02 ENLARGED FLOOR PLAN 2 - GROUND LEVEL 1/4" = 1'-0"

1. FOR LOCATION OF RATED WALL ASSEMBLIES, SEE A2 SERIES (BUILDING FLOOR PLANS)
2. MODELING OF STRUCTURAL ELEMENTS IS REPRESENTATION ONLY. REFER TO STRUCTURAL DRAWINGS FOR MORE ACCURATE STRUCTURAL DESIGN.

GENERAL SHEET NOTES

? MATERIAL TAG

GL-1	CLEAR GLAZING	
CP-1	CEMENTITIOUS PANEL (PT-6B1)	
CP-2	CEMENTITIOUS PANEL (PT-6B2)	
MP-1	CORRUGATED METAL PANEL - PROFILE B (BLUE GRAY)	
MP-2	CORRUGATED METAL PANEL - PROFILE A (CHROMIUM GRAY)	
MP-3	STANDING SEAM METAL ROOF	

REFER TO SPECIFICATIONS FOR INFORMATION NOT INCLUDED HERE.

MATERIAL LEGEND

0000 KEYNOTE TAG

800	MOTOR-ASSIST SECTIONAL OVERHEAD DOOR + TRACK - SEE 15/SS.01 FOR BRACING DETAILS
2227	DOWNSPOUT, PTD.
2302	MECHANICAL EQUIPMENT, S.M.D.
3206	PLANTING, S.L.D.
3233	NUMERICAL ADHERED VINYL SUPER GRAPHICS, TYP.
3241	TRUNCATED DOMES, SEE DETAIL 7/G1.10

KEYNOTE LEGEND

2 A4.02 KEYPLAN - SOUTH ELEVATION 1/32" = 1'-0"

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C-31415
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RENEWAL DATE
OF CALIFORNIA

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project number: 20-296
date: DECEMBER 17, 2024

ENLARGED ELEVATIONS & WALL SECTIONS

A4.02

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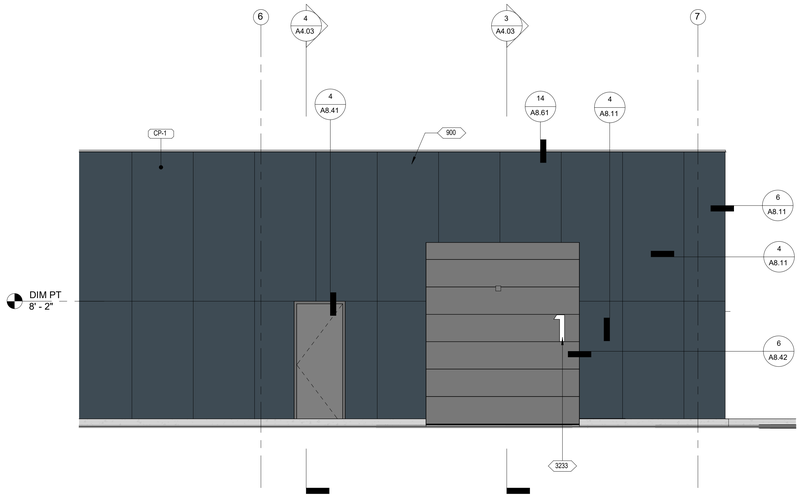
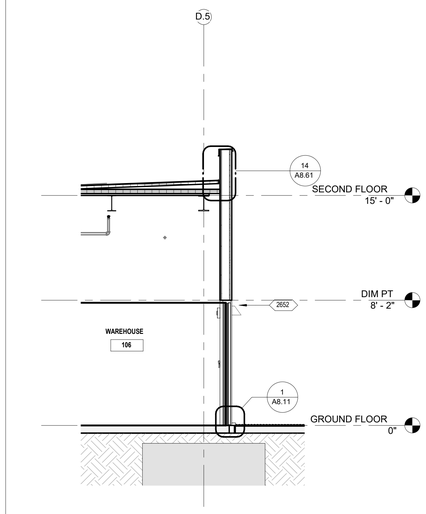
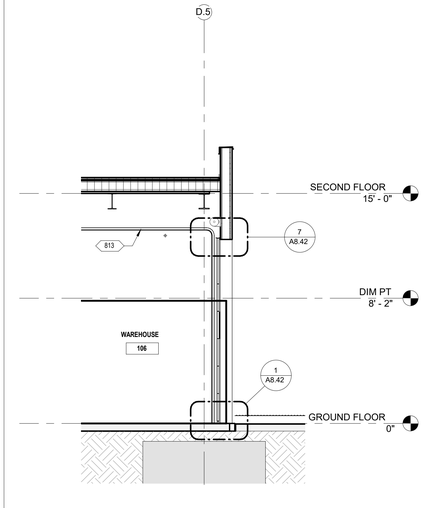


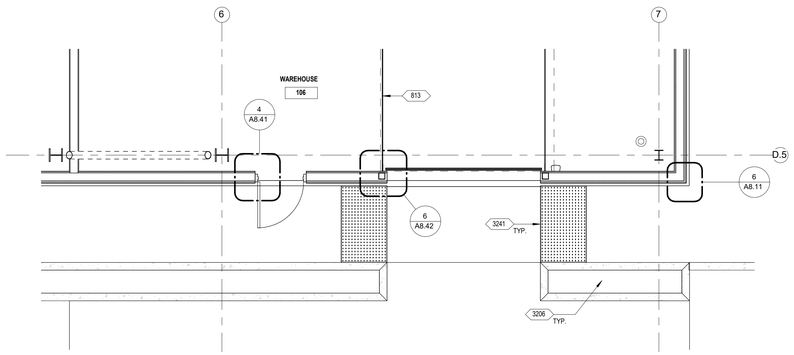
7 A4.03 ENLARGED WEST ELEVATION - WAREHOUSE 1 1/4" = 1'-0"



4 A4.03 WALL SECTION @ FIBER CEMENT PANEL CLADDING 1/4" = 1'-0"



3 A4.03 WALL SECTION @ FIBER CEMENT PANEL CLADDING1 1/4" = 1'-0"



5 A4.03 ENLARGED FLOOR PLAN 3 - GROUND LEVEL 1/4" = 1'-0"

1. FOR LOCATION OF RATED WALL ASSEMBLIES, SEE A2 SERIES (BUILDING FLOOR PLANS)
2. MODELING OF STRUCTURAL ELEMENTS IS REPRESENTATION ONLY. REFER TO STRUCTURAL DRAWINGS FOR MORE ACCURATE STRUCTURAL DESIGN.

GENERAL SHEET NOTES

? MATERIAL TAG

GL-1 CLEAR GLAZING

CP-1 CEMENTITIOUS PANEL (PT-6B1)

CP-2 CEMENTITIOUS PANEL (PT-6B2)

MP-1 CORRUGATED METAL PANEL - PROFILE B (BLUE GRAY)

MP-2 CORRUGATED METAL PANEL - PROFILE A (CHROMIUM GRAY)

MP-3 STANDING SEAM METAL ROOF

REFER TO SPECIFICATIONS FOR INFORMATION NOT INCLUDED HERE.

MATERIAL LEGEND

0000 KEYNOTE TAG

813 OVERHEAD DOOR TRACK, TYP.
900 FIBER CEMENT BOARD, PTD.
2652 LIGHTING FIXTURE, S.E.D., S.LT.D.
3206 PLANTING, S.L.D.
3233 NUMERICAL ADHERED VINYL, SUPER GRAPHICS, TYP.
3241 TRUNCATED DOMES, SEE DETAIL 7/G1.10

KEYNOTE LEGEND

1 A4.03 KEYPLAN - WEST ELEVATION 1/32" = 1'-0"

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ENLARGED ELEVATIONS & WALL SECTIONS

A4.03

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1 OVERALL FINISH PLAN - GROUND LEVEL — 1/8" = 1'-0"

NORTH

SYMBOL	FINISH	TYPE
	SC	SEALED CONCRETE. SMOOTH TROWEL CONCRETE. APPLIED SEALER AFTER CONC. CURING.
	PC	POLISHED CONCRETE. TROWELED WITH FINISH SEALER
	TL-1	FLOOR TILE 12" X 12"
	TL-2	WALL TILE 12" x 24"
	TL-3	FLOOR TILE 12X24 AT ELEVATOR
	CPT-1	CARPET TILE
	CPT-2	CARPET TILE
	EC	CONCRETE AT EXTERIOR. SEALED CONCRETE, S.L.D. S.C.D.
	VCT - 1	VINYL COMPOSITION TILE
	VCT - 2	ANTI-STATIC VINYL COMPOSITION TILE
	VCT - 3	VINYL COMPOSITION TILE
	SS-1	SOLID SURFACE. KITCHEN COUNTER AND BACKSPLASH
	B1	4" RUBBER BASE
	B2	4" MIN. TILE BASE
	PAINT - PT-1A	BM OC-152 SUPER WHITE, EGGSHELL @ TYP. GYP BOARD WALLS, AT UNDERSIDE OF EXPOSED METAL DECK, EXPOSED MECH PIPES, DUCTS, CONDUITS, MECH. DIFFUSERS SIM. INTERIOR DOOR FRAME AND PANEL PAINT COLOR SHALL MATCH INTERIOR WALL COLOR, TYP.
	PAINT - PT-2A	BM286 LUXURIOUS GOLD, SEMI-GLOSS.
	PAINT - PT-3B	BM 1635 WATER'S EDGE, SEMI-GLOSS. INTERIOR DOOR FRAME AND PANEL PAINT COLOR SHALL MATCH INTERIOR WALL COLOR, TYP.
	PAINT - PT-4B	ALL INTERIOR STRUCTURAL STEEL, STAIR FRAMING, STAIR METAL PAN, AND HANDRAILS SHALL BE PAINTED TO MATCH EXTERIOR METAL BLDG. PANEL 'BLUE GRAY' COLOR. ARCHITECT TO APPROVE SELECTED FINISH COLOR. SEMI-GLOSS.
	PAINT - PT-5B	BM CC-782 GEORGIAN BAY, SEMI GLOSS. INTERIOR DOOR FRAME AND PANEL PAINT COLOR SHALL MATCH INTERIOR WALL COLOR, TYP.
	PAINT - PT-7B	EXTERIOR DOOR FRAME AND PANEL, DOWNSPOUTS, GUTTER, AND ROOF LADDER PAINT COLOR SHALL MATCH EXTERIOR WALL 'CHROMIUM GRAY' COLOR. ARCHITECT TO APPROVE SELECTED FINISH COLOR.
	PAINT - PT-4B1 (CP-1)	BM CC-782 GEORGIAN BAY, CEMENTIOUS WALL PANEL 1 FINISH COLOR. EXTERIOR DOOR FRAME AND PANEL PAINT COLOR TO MATCH EXTERIOR WALL COLOR.
	PAINT - PT-8B2 (CP-2)	CHROMIUM GRAY, CEMENTIOUS WALL PANEL 2 FINISH COLOR. EXTERIOR DOOR FRAME AND PANEL PAINT COLOR TO MATCH EXTERIOR WALL COLOR
	FRP-1	FIBERGLASS REINFORCED PLASTIC
	PL -1	PLASTIC LAMINATE - WILSON ART NILE VELVET 15515
	PLY-1	3/4" PLYWOOD FINISH 8' - 0" A.F.F., U.O.N.

FINISH LEGEND

0000 KEYNOTE TAG

310 10' X 10' MAX. CONTROL JOINTS, TYP.
813 OVERHEAD DOOR TRACK, TYP.
971 STEEL-FRAMED STAIRS WITH CONCRETE FILLED METAL PAN TREADS. SEE A7.01 AND A7.02
1002 S.S. CORNER GUARD

KEYNOTE LEGEND

FINISH PLANS GENERAL NOTES

3. ALL UTILITY ROOMS (ELECTRICAL ROOM, MPOE, ETC.) SHALL HAVE LEVEL 2 DRYWALL FINISH ONLY. PROVIDE 3/4" PLYWOOD FINISH BETWEEN 1'-6" AND 9'-6" A.F.F. ON ALL INTERIOR WALLS OF ELEC. AND TEL/DATA ROOMS WHERE EQUIP. IS SHOWN, S.E.D., SEE LOW VOLTAGE DWGS.
4. ALL PLUMBING FIXTURES, BUILT-IN MILLWORK, EQUIPMENT, FURNISHINGS ARE SHOWN FOR REFERENCE. ALL FLOORING FINISHES SHALL EXTEND UNDERNEATH SUCH ELEMENTS AT ALL EXPOSED AREAS, U.O.N.
5. ALL EXPOSED STRUCTURAL ELEMENTS, DUCTWORK, REGISTER GRILLES SHALL BE PAINTED TO MATCH WALL OR CEILING FINISH PAINT COLOR, U.O.N.
8. FINISH FLOOR TRANSITIONS OCCUR AT CENTERLINE OF DOORS, U.O.N. SEE DOOR THRESHOLD DETAILS FOR PROFILE.
9. NOT USED.
10. ALL EXPOSED SPRAYED-APPLIED FIRE PROOFING, IF APPLICABLE, SHALL BE PAINTED.
11. ALL EXPOSED ARCHITECTURAL STEEL SHALL BE PAINTED, U.O.N.
12. REFER TO INTERIOR ELEVATIONS AND ENLARGED PLANS FOR ADDITIONAL FINISHES INFORMATION NOT NOTED HERE.

HALLWAY 1 — ROOM NAME
101 — ROOM NUMBER
CPT1 — FLOOR FINISH
RB-1 — WALL BASE
PT — WALL FINISH

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	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

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25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: DECEMBER 17, 2024

FINISH PLAN - GROUND LEVEL

A5.01

1 OVERALL FINISH PLAN - SECOND LEVEL — 1/8" = 1'-0"

SYMBOL	FINISH	TYPE
	SC	SEALED CONCRETE. SMOOTH TROWEL CONCRETE. APPLIED SEALER AFTER CONC. CURING.
	PC	POLISHED CONCRETE. TROWELED WITH FINISH SEALER
	TL-1	FLOOR TILE 12" X 12"
	TL-2	WALL TILE 12" x 24"
	TL-3	FLOOR TILE 12X24 AT ELEVATOR
	CPT-1	CARPET TILE
	CPT-2	CARPET TILE
	EC	CONCRETE AT EXTERIOR. SEALED CONCRETE, S.L.D. S.C.D.
	VCT - 1	VINYL COMPOSITION TILE
	VCT - 2	ANTI-STATIC VINYL COMPOSITION TILE
	VCT - 3	VINYL COMPOSITION TILE
	SS-1	SOLID SURFACE. KITCHEN COUNTER AND BACKSPLASH
	B1	4" RUBBER BASE
	B2	4" MIN. TILE BASE
	PAINT - PT-1A	BM OC-152 SUPER WHITE, EGGSHELL @ TYP. GYP BOARD WALLS, AT UNDERSIDE OF EXPOSED METAL DECK, EXPOSED MECH PIPES, DUCTS, CONDUITS, MECH. DIFFUSERS SIM. INTERIOR DOOR FRAME AND PANEL PAINT COLOR SHALL MATCH INTERIOR WALL COLOR, TYP.
	PAINT - PT-2A	BM286 LUXURIOUS GOLD, SEMI-GLOSS.
	PAINT - PT-3B	BM 1635 WATER'S EDGE, SEMI-GLOSS. INTERIOR DOOR FRAME AND PANEL PAINT COLOR SHALL MATCH INTERIOR WALL COLOR, TYP.
	PAINT - PT-4B	ALL INTERIOR STRUCTURAL STEEL, STAIR FRAMING, STAIR METAL PAN, AND HANDRAILS SHALL BE PAINTED TO MATCH EXTERIOR METAL BLDG. PANEL 'BLUE GRAY' COLOR . ARCHITECT TO APPROVE SELECTED FINISH COLOR. SEMI-GLOSS.
	PAINT - PT-5B	BM CC-782 GEORGIAN BAY, SEMI GLOSS. INTERIOR DOOR FRAME AND PANEL PAINT COLOR SHALL MATCH INTERIOR WALL COLOR, TYP.
	PAINT - PT-7B	EXTERIOR DOOR FRAME AND PANEL, DOWNSPOUTS, GUTTER, AND ROOF LADDER PAINT COLOR SHALL MATCH EXTERIOR WALL 'CHROMIUM GRAY' COLOR. ARCHITECT TO APPROVE SELECTED FINISH COLOR.
	PAINT- PT-8B1 (CP-1)	BM CC-782 GEORGIAN BAY, CEMENTIOUS WALL PANEL 1 FINISH COLOR. EXTERIOR DOOR FRAME AND PANEL PAINT COLOR TO MATCH EXTERIOR WALL COLOR.
	PAINT - PT-8B2 (CP-2)	CHROMIUM GRAY, CEMENTIOUS WALL PANEL 2 FINISH COLOR. EXTERIOR DOOR FRAME AND PANEL PAINT COLOR TO MATCH EXTERIOR WALL COLOR
	FRP -1	FIBERGLASS REINFORCED PLASTIC
	PL -1	PLASTIC LAMINATE - WILSON ART NILE VELVET 15515
	PLY-1	3/4" PLYWOOD FINISH 8' - 0" A.F.F., U.O.N.

FINISH LEGEND

0000 KEYNOTE TAG

971 STEEL-FRAMED STAIRS WITH CONCRETE FILLED METAL PAN TREADS. SEE A7.01 AND A7.02
1002 S.S. CORNER GUARD

KEYNOTE LEGEND

GENERAL NOTES:

1. FOR INTERIOR ELEVATOR CAB FINISHES, SEE ENLARGED ELEVATOR DRAWINGS.
2. FOR STAIR ASSEMBLY AND FINISHES, SEE ENLARGED STAIR DRAWINGS.
5. ALL EXPOSED STRUCTURAL ELEMENTS, DUCTWORK, REGISTER GRILLES SHALL BE PAINTED TO MATCH WALL OR CEILING FINISH PAINT COLOR, U.O.N.
8. FINISH FLOOR TRANSITIONS OCCUR AT CENTERLINE OF DOORS, U.O.N. SEE DOOR THRESHOLD DETAILS FOR PROFILE.
9. NOT USED.
10. ALL EXPOSED SPRAYED-APPLIED FIRE PROOFING, IF APPLICABLE, SHALL BE PAINTED.
11. ALL EXPOSED ARCHITECTURAL STEEL SHALL BE PAINTED, U.O.N.
12. REFER TO INTERIOR ELEVATIONS AND ENLARGED PLANS FOR ADDITIONAL FINISHES INFORMATION NOT NOTED HERE.

NORTH

HALLWAY 1 — ROOM NAME
101 — ROOM NUMBER
CPT1 — FLOOR FINISH
RB-1 — WALL BASE
PT — WALL FINISH

FINISH PLANS GENERAL NOTES

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CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

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date: DECEMBER 17, 2024

FINISH PLAN - SECOND LEVEL

A5.02

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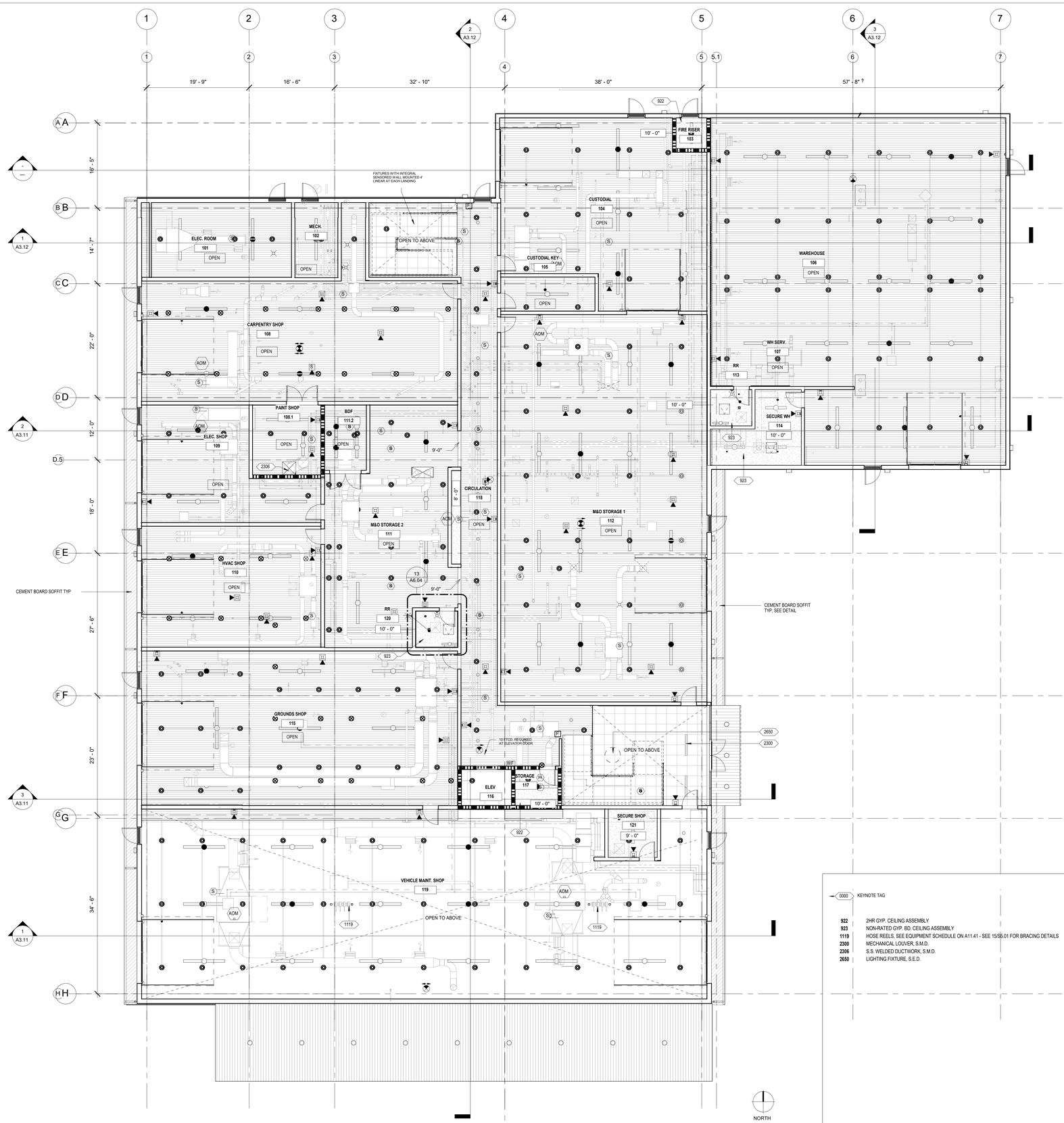

1 REFLECTED CEILING PLAN - GROUND LEVEL — 1/8" = 1'-0"

0000 KEYNOTE TAG

922	2HR GYP. CEILING ASSEMBLY
923	NON-RATED GYP. BD. CEILING ASSEMBLY
1119	HOSE REELS, SEE EQUIPMENT SCHEDULE ON A11.41 - SEE 15/SS.01 FOR BRACING DETAILS
2300	MECHANICAL LOUVER, S.M.D.
2306	S.S. WELDED DUCTWORK, S.M.D.
2650	LIGHTING FIXTURE, S.E.D.

KEYNOTE LEGEND

A. CEILING HEIGHTS ARE DIMENSIONED FROM FLOOR DATUM ELEVATION TO FINISHED CEILING, UNLESS OTHERWISE NOTED.

B. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION RELATIVE TO DEVICE AND FIXTURE LOCATIONS.

C. COORDINATE INTEGRATION OF CEILING SYSTEMS WORK INCLUDING, BUT NOT LIMITED TO, MECHANICAL, ELECTRICAL, SPRINKLER AND FIRE PROTECTION, TELECOMMUNICATIONS, AND STRUCTURAL SYSTEMS, TO MAINTAIN CEILING HEIGHT INDICATED. NOTIFY ARCHITECT OF CONFLICTS PRIOR TO PROCEEDING WITH THE WORK.

D. LOCATE COMPONENTS WITHIN CEILING PLENUM TO MAXIMIZE CLEAR AREA FOR INSTALLATION OF LIGHT FIXTURES AND ACCOMMODATE FIXTURE LAYOUT AS INDICATED.

E. WHERE DOORS WITH HOLD-OPEN DEVICES ARE REQUIRED, PROVIDE SMOKE DETECTOR WITHIN 5 FEET OF OPENING ON BOTH SIDES OF DOORWAY. VERIFY LOCATION OF SMOKE DETECTORS WITH ARCHITECT PRIOR TO INSTALLATION.

F. PROVIDE ACCESS PANELS AT GYPSUM BOARD CEILINGS AND WHERE ACCESS IS REQUIRED FOR ITEMS OF MECHANICAL, PLUMBING AND ELECTRICAL WORK LOCATED BEHIND OR ABOVE FINISHED WALLS OR CEILINGS WHICH REQUIRE ACCESS, WHETHER OR NOT SUCH PANELS ARE INDICATED ON DRAWINGS. VERIFY LOCATION OF ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION.

G. REVIEW LOCATION OF LIFE-SAFETY DEVICES AND/OR EQUIPMENT NOT SHOWN ON THE DRAWINGS WITH ARCHITECT PRIOR TO INSTALLATION.

H. ACOUSTICAL CEILING GRID AND LIGHTING SHALL BE CENTERED IN ROOM(S) UNLESS NOTED OTHERWISE.

I. CENTER RECESSED LIGHTS, ELECTRICAL, MECHANICAL DEVICES AND SPRINKLER HEADS WHEN SHOWN IN CEILING TILES. WHERE RECESSED LIGHTS ARE SHOWN OFF-CENTER IN 2X4 SCORED CEILING TILE, CENTER THE FIXTURE WITHIN THE 2X2 PORTION OF THE TILE.

J. CEILING FINISHES ADJACENT TO OR WITHIN THE LIMITS OF CONSTRUCTION DISTURBED OR DAMAGED BY CONSTRUCTION SHALL BE PATCHED TO MATCH EXISTING ADJACENT CEILING FINISH.

K. ALL DIMENSIONS FOR LIGHT FIXTURES AND OTHER CEILING ITEMS ARE TO CENTERLINE OF FIXTURE/ITEM U.O.N.

L. CONTRACTOR TO COORDINATE THE WORK OF ALL TRADES INVOLVED IN THE CEILING WORK TO INSURE CLEARANCES FOR FIXTURES, DUCTS, PIPING, CEILING SUSPENSION SYSTEMS, ETC. NECESSARY TO MAINTAIN THE FINISHED CEILING HEIGHTS INDICATED ON THE ARCHITECTURAL DRAWINGS.

M. FOR FIXTURE LOCATIONS ONLY. REFER TO ENGINEERING DRAWINGS FOR CIRCUITING. THE ARCHITECTURAL R.C.P. IS TO BE USED IN LOCATING THE CEILING GRID & TILES AND ALL OTHER CEILING ELEMENTS, DEVICE, EQUIP. SIM.

N. SUSPENDED CEILING GRID SHALL BE INSTALLED LEVEL AND TRUE TO A TOLERANCE OF 1/8" IN 12'-0"

0. LIGHTING FIXTURES MOUNTING HEIGHT ARE RELATIVE TO THE RCP LEVEL. SEE ELEVATIONS FOR WALL MOUNTED LIGHTING FIXTURES.

P. SEE A5 & A6 SHEETS FOR FOR FINISHES

Q. SEE DETAIL PLANS A6.XX SERIES FOR ENLARGED REFLECTED CEILING PLANS, INCLUDING LIGHTING CALLOUTS, DIMENSIONING AND MATERIALS.

R. REFER TO A9.45 SERIES FOR SUSPENDED CEILING TILE DETAILS.

S. REFER TO STRUCTURAL DRAWINGS FOR MISC. BLOCKING OR METAL REINFORCEMENT AT CEILING MOUNTED EQUIPMENT, AND COORDINATE WITH EQUIPMENT MANUFACTURER. PROVIDE ADDITIONAL BLOCKING OR METAL SUPPORT COMPONENTS NOT INDICATED ON THE STRUCTURAL DRAWINGS AS REQUIRED TO SUPPORT ALL ITEMS IN ACCORDANCE WITH THE MANUF. RECOMMENDATIONS.

T. ALL LIGHTS, SPRINKLER HEADS, DIFFUSERS, FIRE ALARM DEVICES AND OTHER COMPONENTS INSTALLED IN CEILINGS TO BE CENTERED IN ACOUSTIC TILE U.O.N. LOCATION OF ALL COMPONENTS IN DRYWALL CEILINGS TO BE ALIGNED AND APPROVED IN WRITING BY ARCHITECT PRIOR TO INSTALLATION, U.O.N., TYP.

U. CONTRACTOR TO PROVIDE LOCATION AND DIMENSIONS OF ALL COMPONENTS IN CEILING AS BEING PART OF SHOP DRAWINGS. SEE SPECIFICATIONS.

V. CEILING HEIGHT INFORMATION IS DIMENSIONED FROM FLOOR ELEVATION.

W. ALL EXPOSED METAL DECK, DUCTWORK, CONDUITS, PIPES, ETC. SHALL BE PAINTED, U.O.N..

GENERAL NOTES - CEILING PLAN

CL-1 GWB CEILING, PTD.

EXTERIOR CEMENT BOARD SOFFIT, SEE DETAILS ON SHEET A5.11

EXPOSED METAL DECK

SUSPENDED ACOUSTIC TILE CEILING

10'-0" CEILING HEIGHT A.F.F.

AIR EXHAUST, S.M.D.

FIRE SPRINKLER, SFP.D.

AIR RETURN, S.M.D.

24" X 24" ACCESS PANEL

AIR SUPPLY, S.M.D.

ILLUMINATED EXIT SIGN, CEILING/WALL MOUNTED, S.E.D.

RECESSED LINEAR LUMINAIRE

RECESSED LUMINAIRE

RECESSED LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT

SURFACE MOUNTED 2' X 2' LUMINAIRE

SURFACE MOUNTED 2' X 2' LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT

SURFACE OR PENDANT MOUNTED LUMINAIRE

SURFACE OR PENDANT MOUNTED LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT

SURFACE OR PENDANT MOUNTED STRIPLIGHT

SURFACE OR PENDANT MOUNTED STRIPLIGHT CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT

WALL MOUNTED STRIPLIGHT

WALL MOUNTED STRIPLIGHT CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT

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WALL MOUNTED LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT

REFLECTED CEILING PLAN LEGEND — 1/8" = 1'-0"

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	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

#	date	issue description

C-31415 — REGISTERED PROFESSIONAL ENGINEER — RENEWAL DATE — OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: DECEMBER 17, 2024

REFLECTED CEILING PLAN - GROUND LEVEL

A5.11

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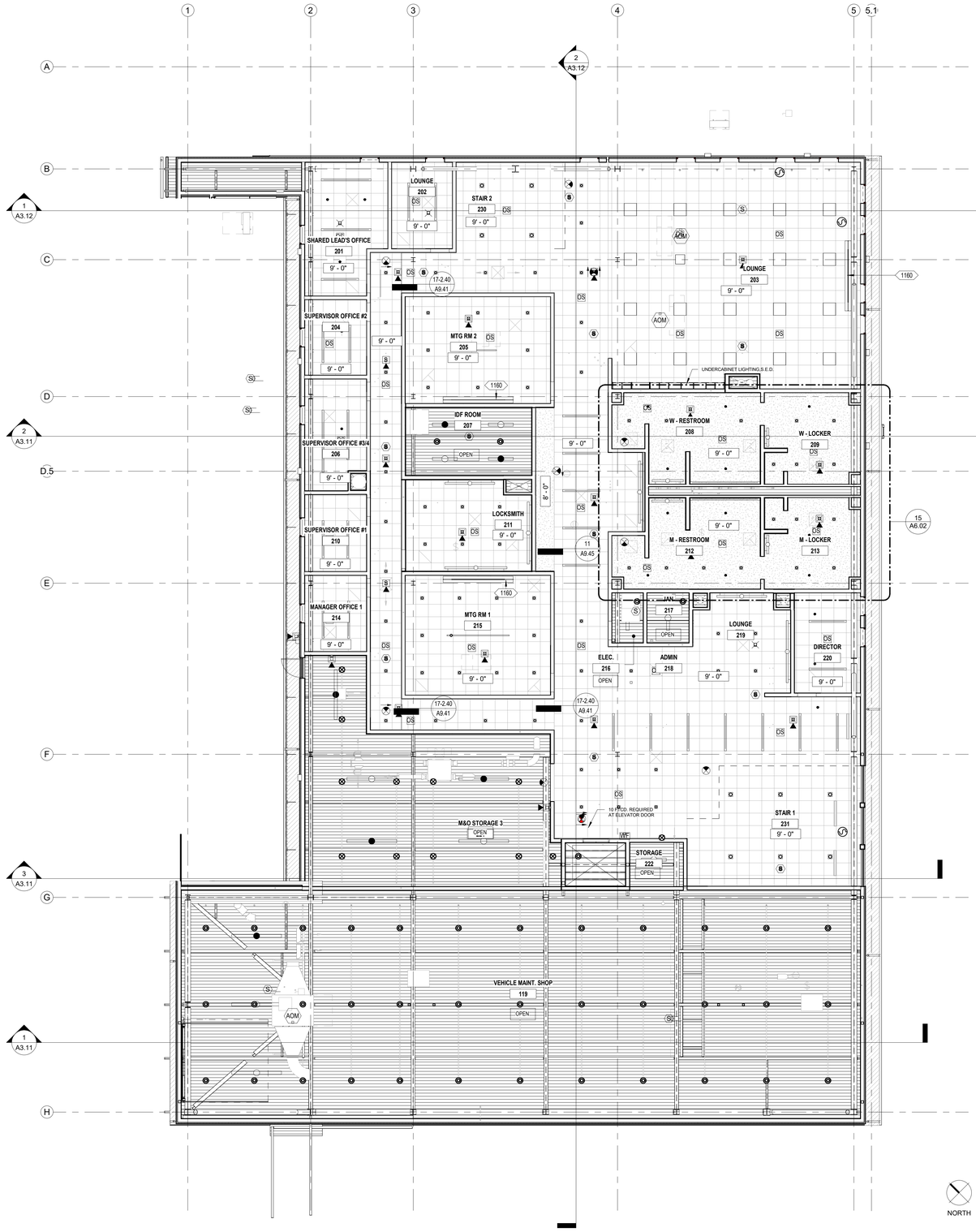

1 REFLECTED CEILING PLAN - SECOND LEVEL — 1/8" = 1'-0"

A. CEILING HEIGHTS ARE DIMENSIONED FROM FLOOR DATUM ELEVATION TO FINISHED CEILING, UNLESS OTHERWISE NOTED.

B. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION RELATIVE TO DEVICE AND FIXTURE LOCATIONS.

C. COORDINATE INTEGRATION OF CEILING SYSTEMS WORK INCLUDING, BUT NOT LIMITED TO, MECHANICAL, ELECTRICAL, SPRINKLER AND FIRE PROTECTION, TELECOMMUNICATIONS, AND STRUCTURAL SYSTEMS, TO MAINTAIN CEILING HEIGHT INDICATED. NOTIFY ARCHITECT OF CONFLICTS PRIOR TO PROCEEDING WITH THE WORK.

D. LOCATE COMPONENTS WITHIN CEILING PLENUM TO MAXIMIZE CLEAR AREA FOR INSTALLATION OF LIGHT FIXTURES AND ACCOMMODATE FIXTURE LAYOUT AS INDICATED.

E. WHERE DOORS WITH HOLD-OPEN DEVICES ARE REQUIRED, PROVIDE SMOKE DETECTOR WITHIN 5 FEET OF OPENING ON BOTH SIDES OF DOORWAY. VERIFY LOCATION OF SMOKE DETECTORS WITH ARCHITECT PRIOR TO INSTALLATION.

F. PROVIDE ACCESS PANELS AT GYPSUM BOARD CEILINGS AND WHERE ACCESS IS REQUIRED FOR ITEMS OF MECHANICAL, PLUMBING AND ELECTRICAL WORK LOCATED BEHIND OR ABOVE FINISHED WALLS OR CEILINGS WHICH REQUIRE ACCESS, WHETHER OR NOT SUCH PANELS ARE INDICATED ON DRAWINGS. VERIFY LOCATION OF ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION.

G. REVIEW LOCATION OF LIFE-SAFETY DEVICES AND/OR EQUIPMENT NOT SHOWN ON THE DRAWINGS WITH ARCHITECT PRIOR TO INSTALLATION.

H. ACOUSTICAL CEILING GRID AND LIGHTING SHALL BE CENTERED IN ROOM(S) UNLESS NOTED OTHERWISE.

I. CENTER RECESSED LIGHTS, ELECTRICAL, MECHANICAL DEVICES AND SPRINKLER HEADS WHEN SHOWN IN CEILING TILES. WHERE RECESSED LIGHTS ARE SHOWN OFF-CENTER IN 2X4 SCORED CEILING TILE, CENTER THE FIXTURE WITHIN THE 2X2 PORTION OF THE TILE.

J. CEILING FINISHES ADJACENT TO OR WITHIN THE LIMITS OF CONSTRUCTION DISTURBED OR DAMAGED BY CONSTRUCTION SHALL BE PATCHED TO MATCH EXISTING ADJACENT CEILING FINISH.

K. ALL DIMENSIONS FOR LIGHT FIXTURES AND OTHER CEILING ITEMS ARE TO CENTERLINE OF FIXTURE/ITEM U.O.N.

L. CONTRACTOR TO COORDINATE THE WORK OF ALL TRADES INVOLVED IN THE CEILING WORK TO INSURE CLEARANCES FOR FIXTURES, DUCTS, PIPING, CEILING SUSPENSION SYSTEMS, ETC. NECESSARY TO MAINTAIN THE FINISHED CEILING HEIGHTS INDICATED ON THE ARCHITECTURAL DRAWINGS.

M. FOR FIXTURE LOCATIONS ONLY. REFER TO ENGINEERING DRAWINGS FOR CIRCUITING. THE ARCHITECTURAL R.C.P. IS TO BE USED IN LOCATING THE CEILING GRID & TILES AND ALL OTHER CEILING ELEMENTS, DEVICE, EQUIP. SIM.

N. SUSPENDED CEILING GRID SHALL BE INSTALLED LEVEL AND TRUE TO A TOLERANCE OF 1/8" IN 12'-0".

0. LIGHTING FIXTURES MOUNTING HEIGHT ARE RELATIVE TO THE RCP LEVEL. SEE ELEVATIONS FOR WALL MOUNTED LIGHTING FIXTURES.

P. SEE A5 & A6 SHEETS FOR FOR FINISHES

Q. SEE DETAIL PLANS A6.XX SERIES FOR ENLARGED REFLECTED CEILING PLANS, INCLUDING LIGHTING CALLOUTS, DIMENSIONING AND MATERIALS.

R. REFER TO A9.45 SERIES FOR SUSPENDED CEILING TILE DETAILS.

S. REFER TO STRUCTURAL DRAWINGS FOR MISC. BLOCKING OR METAL REINFORCEMENT AT CEILING MOUNTED EQUIPMENT, AND COORDINATE WITH EQUIPMENT MANUFACTURER. PROVIDE ADDITIONAL BLOCKING OR METAL SUPPORT COMPONENTS NOT INDICATED ON THE STRUCTURAL DRAWINGS AS REQUIRED TO SUPPORT ALL ITEMS IN ACCORDANCE WITH THE MANUF. RECOMMENDATIONS.

T. ALL LIGHTS, SPRINKLER HEADS, DIFFUSERS, FIRE ALARM DEVICES AND OTHER COMPONENTS INSTALLED IN CEILINGS TO BE CENTERED IN ACOUSTIC TILE U.O.N. LOCATION OF ALL COMPONENTS IN DRYWALL CEILINGS TO BE ALIGNED AND APPROVED IN WRITING BY ARCHITECT PRIOR TO INSTALLATION, U.O.N., TYP.

U. CONTRACTOR TO PROVIDE LOCATION AND DIMENSIONS OF ALL COMPONENTS IN CEILING AS BEING PART OF SHOP DRAWINGS. SEE SPECIFICATIONS.

V. CEILING HEIGHT INFORMATION IS DIMENSIONED FROM FLOOR ELEVATION.

W. ALL EXPOSED METAL DECK, DUCTWORK, CONDUITS, PIPES, ETC. SHALL BE PAINTED, U.O.N..

GENERAL NOTES - CEILING PLAN

0000 KEYNOTE TAG

1160 RECESSED CEILING MOUNTED PROJECTION SCREEN

KEYNOTE LEGEND

CL-1 GWB CEILING, PTD.

EXTERIOR CEMENT BOARD SOFFIT, SEE DETAILS ON SHEET A8.11

EXPOSED METAL DECK

SUSPENDED ACOUSTIC TILE CEILING

10'-0" CEILING HEIGHT A.F.F.

FIRE SPRINKLER, SFP.D.

24" X 24" ACCESS PANEL

ILLUMINATED EXIT SIGN, CEILING/WALL MOUNTED, S.E.D.

RECESSED LINEAR LUMINAIRE

RECESSED LUMINAIRE

RECESSED LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT

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AIR EXHAUST, S.M.D.

AIR RETURN, S.M.D.

AIR SUPPLY, S.M.D.

REFLECTED CEILING PLAN LEGEND — 1/8" = 1'-0"

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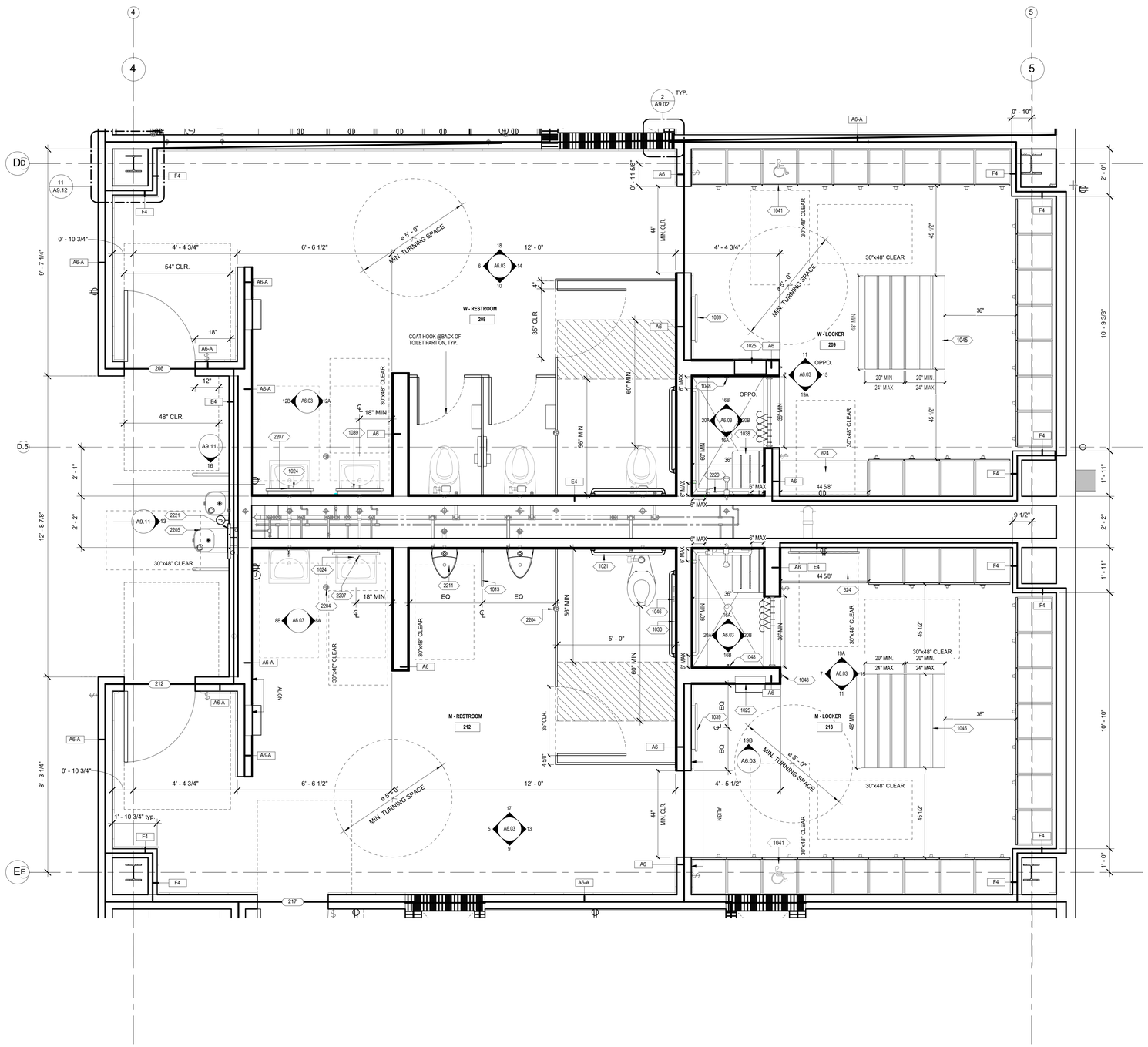
REGISTERED ARCHITECT C-31715 RENEWAL DATE STATE OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: DECEMBER 17, 2024

REFLECTED CEILING PLAN - GROUND LEVEL

A5.12



1 ENLARGED PLANS - RESTROOMS
A6.01

1/2" = 1'-0"

1. SEE G1.11 AND G1.12 FOR TOILET ACCESSORIES PLUMBING FIXTURE AND PARTITION MOUNTING HEIGHTS AND CLEARANCES.
2. SEE G1.11 AND G1.12 FOR ACCESSORIES AND FIXTURE MOUNTING HEIGHTS.

GENERAL NOTES

- TRUNCATED DOMES, SLD., S.C.D.
- CMU WALL
- NEW PARTITION
- 2 HR. FIRE RATED WALL CONSTRUCTION
- A01A — PARTITION TAG
- FD — FLOOR DRAIN
- ROOF DRAIN

ENLARGED FLOOR PLAN LEGEND

0000 KEYNOTE TAG

KEYNOTE LEGEND

624	BUILT-IN MILLWORK COUNTER - SEE 17 / A9.61
1013	URINAL PARTITION
1021	36" GRAB BAR
1024	DISPENSER
1025	RECESSED WASTE RECEPTACLE AND PAPER TOWEL DISPENSER UNIT
1039	RECESSED SEAT COVER, AND TOILET PAPER, DISPENSER, WASTE DISPOSAL
1038	FOLDING SHOWER SEAT
1039	MIRROR
1041	LOCKERS - PER CBC 11B-222 & 11B-803 *20 LOCKERS ARE PROVIDED PER GENDER @ 5% ACCESSIBLE = 1 LOCKER PROVIDED PER GENDER
1045	BENCH W/ BACK SUPPORT PER 11B-903.6
1046	SANITARY NAPKIN DISPOSAL
1048	ROBE/TOWEL HOOK
2204	FLOOR DRAIN, S.P.D.
2205	HIGH/LOW DRINKING FOUNTAIN, S.P.D.
2207	FAUCET, S.P.D.
2211	WALL MOUNTED URINAL, S.P.D.
2220	SHOWER CONTROLS
2221	WATER FILLING STATION, S.P.D.

DETAILS ON A9.42

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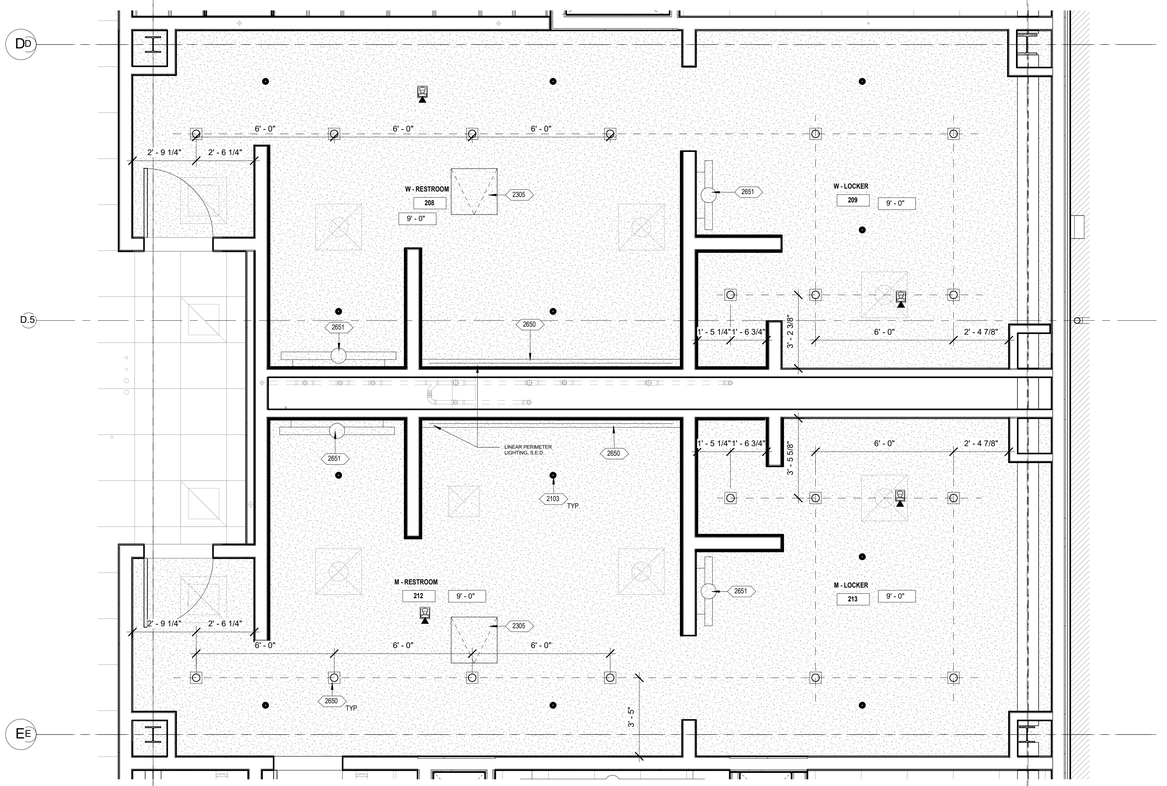
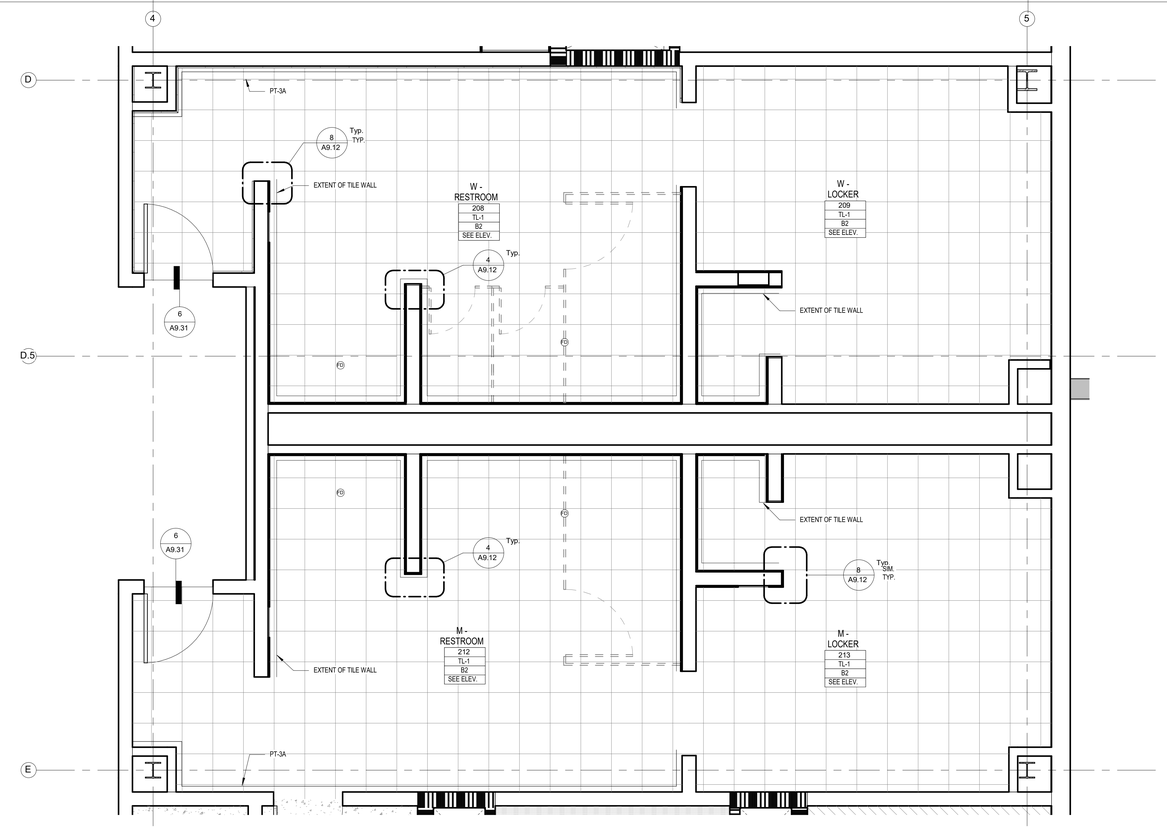
ENLARGED FLOOR PLAN - RESTROOMS & LOCKER ROOMS

A6.01



15 A6.02 ENLARGED REFLECTED CEILING PLAN - RESTROOMS 3/8" = 1'-0"



13 A6.02 ENLARGED FINISH PLAN - RESTROOMS 3/8" = 1'-0"

CL-1 GWB CEILING, PTD.

EXPOSED METAL DECK

SUSPENDED ACOUSTIC TILE CEILING

10'-0" CEILING HEIGHT A.F.F.

FIRE SPRINKLER, SFP.D.

24" X 24" ACCESS PANEL

ILLUMINATED EXIT SIGN, CEILING/WALL MOUNTED, S.E.D.

RECESSED LINEAR LUMINAIRE

RECESSED LUMINAIRE

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AIR EXHAUST, S.M.D.

AIR RETURN, S.M.D.

AIR SUPPLY, S.M.D.

REFLECTED CEILING PLAN LEGEND 1/8" = 1'-0"

SYMBOL	FINISH	TYPE
	SC	SEALED CONCRETE. SMOOTH TROWEL CONCRETE. APPLIED SEALER AFTER CONC. CURING.
	PC	POLISHED CONCRETE. TROWELED WITH FINISH SEALER
	TL-1	FLOOR TILE 12" X 12"
	TL-2	WALL TILE 12" x 24"
	TL-3	FLOOR TILE 12X24 AT ELEVATOR
	CPT-1	CARPET TILE
	CPT-2	CARPET TILE
	EC	CONCRETE AT EXTERIOR. SEALED CONCRETE, S.L.D. S.C.D.
	VCT - 1	VINYL COMPOSITION TILE
	VCT - 2	ANTI-STATIC VINYL COMPOSITION TILE
	VCT - 3	VINYL COMPOSITION TILE
	SS-1	SOLID SURFACE. KITCHEN COUNTER AND BACKSPLASH
	B1	4" RUBBER BASE
	B2	4" MIN. TILE BASE
	PAINT - PT-1A	BM OC-152 SUPER WHITE, EGGSHELL @ TYP. GYP BOARD WALLS, AT UNDERSIDE OF EXPOSED METAL DECK, EXPOSED MECH PIPES, DUCTS, CONDUITS, MECH. DIFFUSERS SIM. INTERIOR DOOR FRAME AND PANEL PAINT COLOR SHALL MATCH INTERIOR WALL COLOR, TYP.
	PAINT - PT-2A	BM286 LUXURIOUS GOLD, SEMI-GLOSS.
	PAINT - PT-3B	BM 1635 WATER'S EDGE, SEMI-GLOSS. INTERIOR DOOR FRAME AND PANEL PAINT COLOR SHALL MATCH INTERIOR WALL COLOR, TYP.
	PAINT - PT-4B	ALL INTERIOR STRUCTURAL STEEL, STAIR FRAMING, STAIR METAL PAN, AND HANDRAILS SHALL BE PAINTED TO MATCH EXTERIOR METAL BLDG. PANEL 'BLUE GRAY' COLOR. ARCHITECT TO APPROVE SELECTED FINISH COLOR. SEMI-GLOSS.
	PAINT - PT-5B	BM CC-782 GEORGIAN BAY, SEMI GLOSS. INTERIOR DOOR FRAME AND PANEL PAINT COLOR SHALL MATCH INTERIOR WALL COLOR, TYP.
	PAINT - PT-7B	EXTERIOR DOOR FRAME AND PANEL, DOWNSPOUTS, GUTTER, AND ROOF LADDER PAINT COLOR SHALL MATCH EXTERIOR WALL 'CHROMIUM GRAY' COLOR. ARCHITECT TO APPROVE SELECTED FINISH COLOR.
	PAINT- PT-8B1 (CP-1)	BM CC-782 GEORGIAN BAY, CEMENTIOUS WALL PANEL 1 FINISH COLOR. EXTERIOR DOOR FRAME AND PANEL PAINT COLOR TO MATCH EXTERIOR WALL COLOR.
	PAINT - PT-8B2 (CP-2)	CHROMIUM GRAY, CEMENTIOUS WALL PANEL 2 FINISH COLOR. EXTERIOR DOOR FRAME AND PANEL PAINT COLOR TO MATCH EXTERIOR WALL COLOR.
	FRP -1	FIBERGLASS REINFORCED PLASTIC
	PL -1	PLASTIC LAMINATE - WILSON ART NILE VELVET 15515
	PLY-1	3/4" PLYWOOD FINISH 8' - 0" A.F.F., U.O.N.

FINISH LEGEND

0000 KEYNOTE TAG

KEYNOTE LEGEND

2103 SPRINKLER, S.FP.D.
2305 24"X24" ACCESS PANEL
2650 LIGHTING FIXTURE, S.E.D.
2651 WALL MOUNTED LIGHTING FIXTURE, S.E.D, S.LT.D.

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CA 31615 ARCHITECT RENEWAL DATE

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25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
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ENLARGED FINISH PLAN AND RCP - RESTROOMS & LOCKER ROOMS

A6.02

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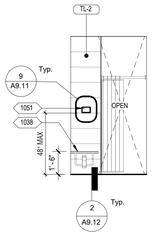

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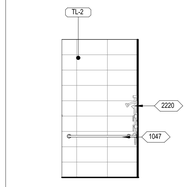
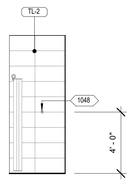
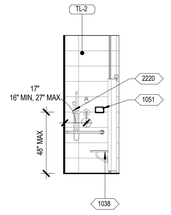


20A A6.03 INT. ELEV.- TYP. SHOWER - W 1/4" = 1'-0"



16B A6.03 INT. ELEV - TYP. SHOWER - S 1/4" = 1'-0"



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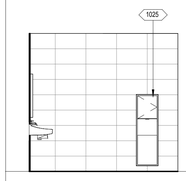
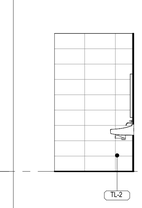
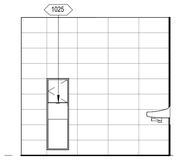


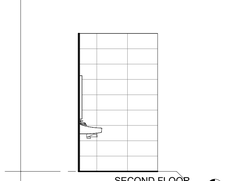
12B A6.03 INT. ELEV- WOMEN'S RM- W 1/4" = 1'-0"



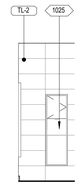
12A A6.03 INT. ELEV- WOMEN'S RM- E 1/4" = 1'-0"



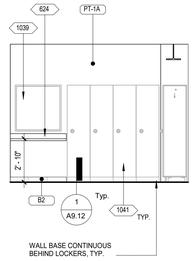
8B A6.03 INT. ELEV - MEN'S RESTROOM W 1/4" = 1'-0"



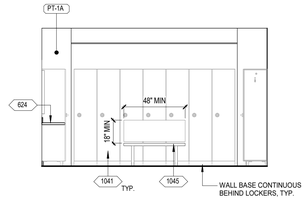
8A A6.03 INT. ELEV - MEN'S RESTROOM E 1/4" = 1'-0"



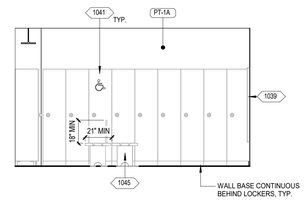
19B A6.03 INT. ELEV. - M. LOCKER (N) 1/4" = 1'-0"



19A A6.03 INT. ELEV. - LOCKER ROOM (N) 1/4" = 1'-0"

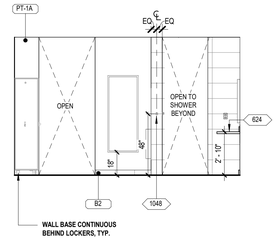


15 A6.03 INTERIOR ELEVATION - LOCKER ROOM - EAST 1/4" = 1'-0"

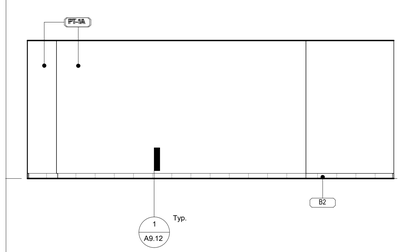


NOTE: PROVIDE 5% MIN. OF LOCKERS TO BE ACCESIBLE AND LATCHES WITHIN REACH RANGE

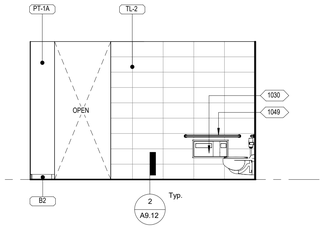
11 A6.03 INTERIOR ELEVATION - LOCKER ROOM - SOUTH 1/4" = 1'-0"



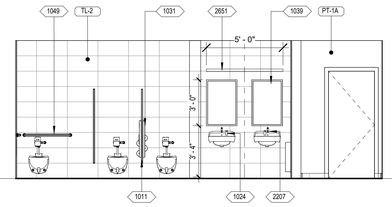
7 A6.03 INTERIOR ELEVATION - LOCKER ROOM - WEST 1/4" = 1'-0"



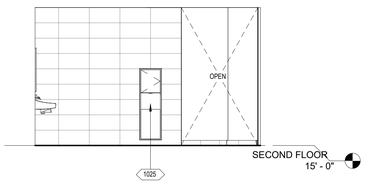
18 A6.03 INTERIOR ELEVATION - WOMEN'S RESTROOM - NORTH 1/4" = 1'-0"



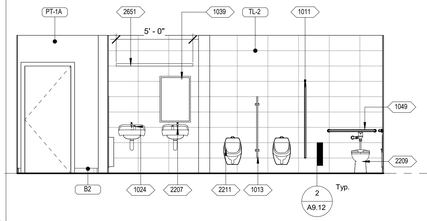
14 A6.03 INTERIOR ELEVATION - WOMEN'S RESTROOM - EAST 1/4" = 1'-0"



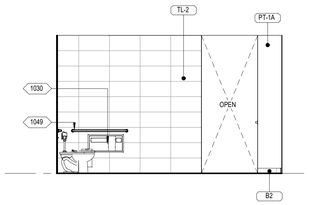
10 A6.03 INTERIOR ELEVATION - WOMEN'S RESTROOM - SOUTH 1/4" = 1'-0"



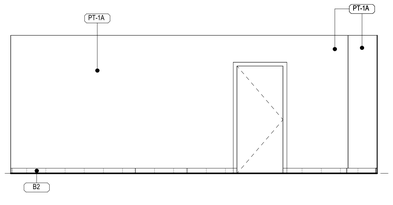
6 A6.03 INTERIOR ELEVATION - WOMEN'S RESTROOM - WEST 1/4" = 1'-0"



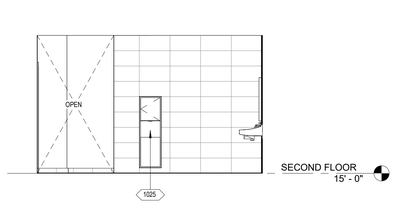
17 A6.03 INTERIOR ELEVATION - MEN'S RESTROOM - NORTH 1/4" = 1'-0"



13 A6.03 INTERIOR ELEVATION - MEN'S RESTROOM - EAST 1/4" = 1'-0"



9 A6.03 INTERIOR ELEVATION - MEN'S RESTROOM - SOUTH 1/4" = 1'-0"



5 A6.03 INT. ELEV. - MEN'S R. - W. 1/4" = 1'-0"

SYMBOL	FINISH	TYPE
	SC	SEALED CONCRETE. SMOOTH TROWEL CONCRETE. APPLIED SEALER AFTER CONC. CURING.
	PC	POLISHED CONCRETE. TROWELED WITH FINISH SEALER
	TL-1	FLOOR TILE 12" X 12"
	TL-2	WALL TILE 12" x 24"
	TL-3	FLOOR TILE 12X24 AT ELEVATOR
	CPT-1	CARPET TILE
	CPT-2	CARPET TILE
	EC	CONCRETE AT EXTERIOR. SEALED CONCRETE, S.L.D. S.C.D.
	VCT - 1	VINYL COMPOSITION TILE
	VCT - 2	ANTI-STATIC VINYL COMPOSITION TILE
	VCT - 3	VINYL COMPOSITION TILE
	SS-1	SOLID SURFACE. KITCHEN COUNTER AND BACKSPLASH
	B1	4" RUBBER BASE
	B2	4" MIN. TILE BASE
	PAINT - PT-1A	BM OC-152 SUPER WHITE. EGGSHELL @ TYP. GYP BOARD WALLS, AT UNDERSIDE OF EXPOSED METAL DECK, EXPOSED MECH PIPES, DUCTS, CONDUITS, MECH. DIFFUSERS SIM. INTERIOR DOOR FRAME AND PANEL PAINT COLOR SHALL MATCH INTERIOR WALL COLOR, TYP.
	PAINT - PT-2A	BM286 LUXURIOUS GOLD, SEMI-GLOSS.
	PAINT - PT-3B	BM 1635 WATER'S EDGE, SEMI-GLOSS. INTERIOR DOOR FRAME AND PANEL PAINT COLOR SHALL MATCH INTERIOR WALL COLOR, TYP.
	PAINT - PT-4B	ALL INTERIOR STRUCTURAL STEEL, STAIR FRAMING, STAIR METAL PAN, AND HANDRAILS SHALL BE PAINTED TO MATCH EXTERIOR METAL BLDG. PANEL 'BLUE GRAY' COLOR. ARCHITECT TO APPROVE SELECTED FINISH COLOR, SEMI-GLOSS.
	PAINT - PT-5B	BM CC-782 GEORGIAN BAY, SEMI GLOSS. INTERIOR DOOR FRAME AND PANEL PAINT COLOR SHALL MATCH INTERIOR WALL COLOR, TYP.
	PAINT - PT-7B	EXTERIOR DOOR FRAME AND PANEL. DOWNSPOUTS, GUTTER, AND ROOF LADDER PAINT COLOR SHALL MATCH EXTERIOR WALL 'CHROMIUM GRAY' COLOR. ARCHITECT TO APPROVE SELECTED FINISH COLOR.
	PAINT- PT-8B1 (CP-1)	BM CC-782 GEORGIAN BAY, CEMENTIOUS WALL PANEL 1 FINISH COLOR. EXTERIOR DOOR FRAME AND PANEL PAINT COLOR TO MATCH EXTERIOR WALL COLOR.
	PAINT - PT-8B2 (CP-2)	CHROMIUM GRAY, CEMENTIOUS WALL PANEL 2 FINISH COLOR. EXTERIOR DOOR FRAME AND PANEL PAINT COLOR TO MATCH EXTERIOR WALL COLOR.
	FRP -1	FIBERGLASS REINFORCED PLASTIC
	PL -1	PLASTIC LAMINATE - WILSON ART NILE VELVET 15515
	PLY-1	3/4" PLYWOOD FINISH 8' - 0" A.F.F., U.O.N.

FINISH LEGEND

0000 KEYNOTE TAG

624	BUILT-IN MILLWORK COUNTER - SEE 17 / A9.61
1011	TOILET PARTITION
1013	URINAL PARTITION
1024	DISPENSER
1025	RECESSED WASTE RECEPTACLE AND PAPER TOWEL DISPENSER UNIT
1030	RECESSED SEAT COVER, AND TOILET PAPER, DISPENSER, WASTE DISPOSAL
1031	PARTITION MOUNTED SEAT COVER, AND TOILET PAPER, WASTE DISPENSER
1038	FOLDING SHOWER SEAT
1039	MIRROR
1041	LOCKERS - PER CBC 11B-222 & 11B-803
1045	BENCH W/ BACK SUPPORT PER 11B-903.6
1047	ACCESSIBLE COMPLIANT SHOWER GRAB BAR
1048	ROBE/TOWEL HOOK
1049	36" GRAB BAR
1051	RECESSED HEAVY-DUTY SOAP DISH
2207	FAUCET, S.P.D.
2209	WALL MOUNTED WATER CLOSET, S.P.D.
2211	WALL MOUNTED URINAL, S.P.D.
2220	SHOWER CONTROLS
2650	LIGHTING FIXTURE, S.E.D.
2651	WALL MOUNTED LIGHTING FIXTURE, S.E.D, S.L.T.D.

* SEE G1.11 & G1.12 FOR ACCESSORIES AND PLUMBING FIXTURE MOUNTING HEIGHTS [ACCESSIBILITY DETAILS]

KEYNOTE LEGEND

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file: Autodesk Docs://chabot m⅋o/20-296-chabot 2-story.rvt
12/13/2024 11:51:30 AM

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-121159 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 2/19/2025

HGA

CHABOT COLLEGE

CLIENT
CHABOT COLLEGE
25555 HESPERIAN BLVD
HAYWARD, CA 94612

ARCHITECT
HGA
405 14th Street, Suite 500
Oakland, CA 94612
510.516.0167
www.hga.com

2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

#	date	issue description

REGISTERED ARCHITECT
C-31715
LICENSE RENEWAL DATE
STATE OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

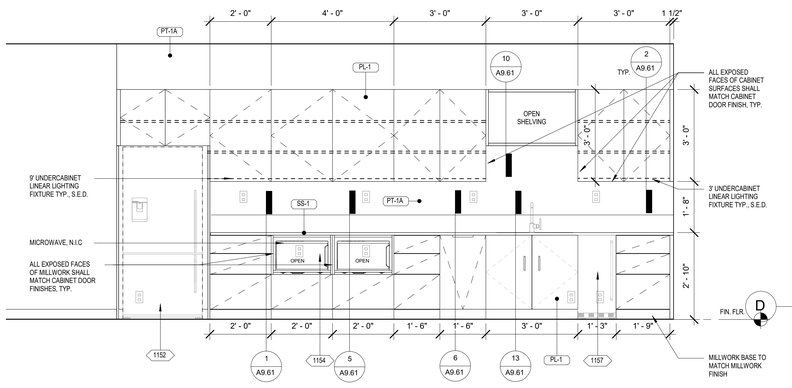
project number: 20-296
date: DECEMBER 17, 2024

INTERIOR ELEVATIONS - RESTROOMS & LOCKER ROOMS

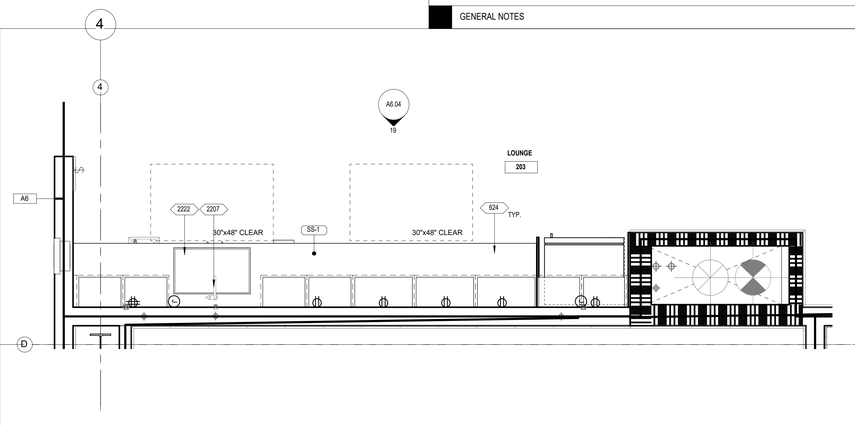
A6.03

1. REFER TO GENERAL SHEETS FOR ACCESSIBILITY REQUIREMENTS NOT SHOWN HERE.
2. SEE G1.11 FOR ACCESSORIES AND FIXTURE MOUNTING HEIGHTS

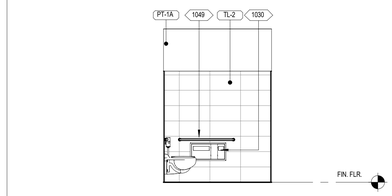
GENERAL NOTES



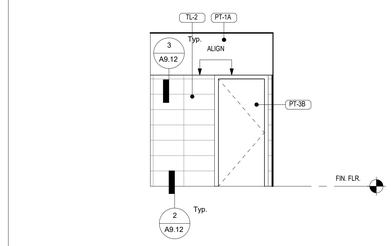
19 A6.04 INTERIOR ELEVATION - BREAK ROOM KITCHENETTE 1/2" = 1'-0"



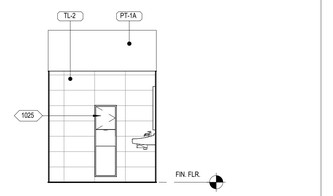
11 A6.04 ENLARGED PLANS - BREAK ROOM KITCHENETTE 1/2" = 1'-0"



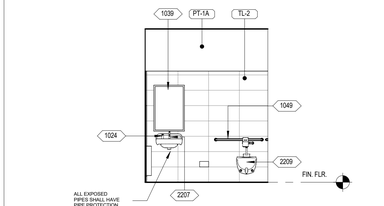
18 A6.04 INTERIOR ELEVATION - SINGLE USER RESTROOM - WEST 1/4" = 1'-0"



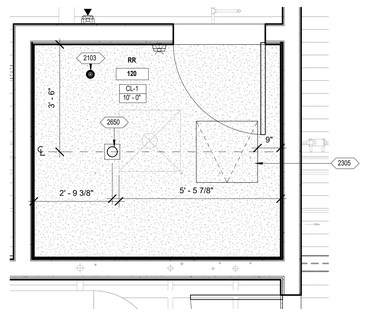
14 A6.04 INTERIOR ELEVATION - SINGLE USER RESTROOM - NORTH 1/4" = 1'-0"



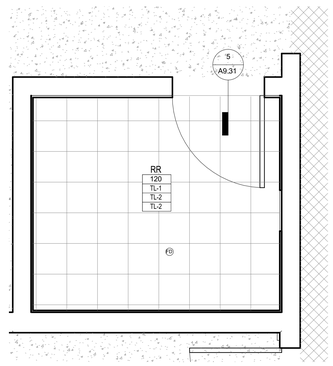
10 A6.04 INTERIOR ELEVATION - SINGLE USER RESTROOM - EAST 1/4" = 1'-0"



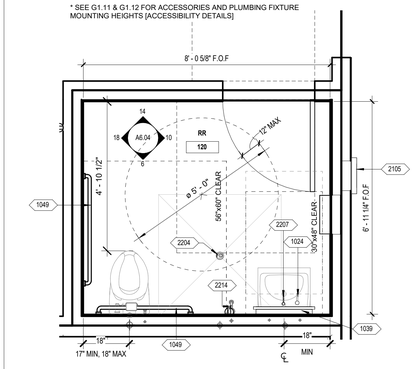
6 A6.04 INTERIOR ELEVATION - SINGLE USER RESTROOM - SOUTH 1/4" = 1'-0"



13 A6.04 ENLARGED RCP - SINGLE USER RESTROOM (RM 113 SIM. MIRR.) 1/2" = 1'-0"



9 A6.04 ENLARGED FINISH PLAN - SINGLE USER RESTROOM (RM 113 SIM. MIRR.) 1/2" = 1'-0"



5 A6.04 ENLARGED PLAN SINGLE USER RESTROOM (RM 113 SIM. MIRR.) 1/2" = 1'-0"

REFLECTED CEILING PLAN LEGEND 1/8" = 1'-0"

CL-1 GWB CEILING, PTD.

EXTERIOR CEMENT BOARD SOFFIT, SEE DETAILS ON SHEET A8.11

EXPOSED METAL DECK

SUSPENDED ACOUSTIC TILE CEILING

10'-0" CEILING HEIGHT A.F.F.

AIR EXHAUST, S.M.D.

FIRE SPRINKLER, SFP.D.

AIR RETURN, S.M.D.

24" X 24" ACCESS PANEL

AIR SUPPLY, S.M.D.

ILLUMINATED EXIT SIGN, CEILING/WALL MOUNTED, S.E.D.

RECESSED LINEAR LUMINAIRE

RECESSED LUMINAIRE

RECESSED LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT

SURFACE MOUNTED 2' X 2' LUMINAIRE

SURFACE MOUNTED 2' X 2' LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT

SURFACE OR PENDANT MOUNTED LUMINAIRE

SURFACE OR PENDANT MOUNTED LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT

SURFACE OR PENDANT MOUNTED STRIPLIGHT

SURFACE OR PENDANT MOUNTED STRIPLIGHT CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT

WALL MOUNTED STRIPLIGHT

WALL MOUNTED STRIPLIGHT CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT

WALL MOUNTED LUMINAIRE

WALL MOUNTED LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT

SYMBOL	FINISH	TYPE
	SC	SEALED CONCRETE. SMOOTH TROWEL CONCRETE. APPLIED SEALER AFTER CONC. CURING.
	PC	POLISHED CONCRETE. TROWELED WITH FINISH SEALER
	TL-1	FLOOR TILE 12" X 12"
	TL-2	WALL TILE 12" x 24"
	TL-3	FLOOR TILE 12X24 AT ELEVATOR
	CPT-1	CARPET TILE
	CPT-2	CARPET TILE
	EC	CONCRETE AT EXTERIOR. SEALED CONCRETE, S.L.D. S.C.D
	VCT - 1	VINYL COMPOSITION TILE
	VCT - 2	ANTI-STATIC VINYL COMPOSITION TILE
	VCT - 3	VINYL COMPOSITION TILE
	SS-1	SOLID SURFACE. KITCHEN COUNTER AND BACKSPLASH
	B1	4" RUBBER BASE
	B2	4" MIN. TILE BASE
	PAINT - PT-1A	BM OC-152 SUPER WHITE, EGGSHELL @ TYP. GYP BOARD WALLS, AT UNDERSIDE OF EXPOSED METAL DECK, EXPOSED MECH PIPES, DUCTS, CONDUITS, MECH. DIFFUSERS SIM. INTERIOR DOOR FRAME AND PANEL PAINT COLOR SHALL MATCH INTERIOR WALL COLOR, TYP.
	PAINT - PT-2A	BM286 LUXURIOUS GOLD, SEMI-GLOSS.
	PAINT - PT-3B	BM 1635 WATER'S EDGE, SEMI-GLOSS. INTERIOR DOOR FRAME AND PANEL PAINT COLOR SHALL MATCH INTERIOR WALL COLOR, TYP.
	PAINT - PT-4B	ALL INTERIOR STRUCTURAL STEEL, STAIR FRAMING, STAIR METAL PAN, AND HANDRAILS SHALL BE PAINTED TO MATCH EXTERIOR METAL BLDG. PANEL 'BLUE GRAY' COLOR. ARCHITECT TO APPROVE SELECTED FINISH COLOR. SEMI-GLOSS.
	PAINT - PT-5B	BM CC-782 GEORGIAN BAY, SEMI GLOSS. INTERIOR DOOR FRAME AND PANEL PAINT COLOR SHALL MATCH INTERIOR WALL COLOR, TYP.
	PAINT - PT-7B	EXTERIOR DOOR FRAME AND PANEL, DOWNSPOUTS, GUTTER, AND ROOF LADDER PAINT COLOR SHALL MATCH EXTERIOR WALL 'CHROMIUM GRAY' COLOR. ARCHITECT TO APPROVE SELECTED FINISH COLOR.
	PAINT- PT-8B1 (CP-1)	BM CC-782 GEORGIAN BAY, CEMENTIOUS WALL PANEL 1 FINISH COLOR. EXTERIOR DOOR FRAME AND PANEL PAINT COLOR TO MATCH EXTERIOR WALL COLOR.
	PAINT - PT-8B2 (CP-2)	CHROMIUM GRAY, CEMENTIOUS WALL PANEL 2 FINISH COLOR. EXTERIOR DOOR FRAME AND PANEL PAINT COLOR TO MATCH EXTERIOR WALL COLOR.
	FRP -1	FIBERGLASS REINFORCED PLASTIC
	PL -1	PLASTIC LAMINATE - WILSON ART NILE VELVET 15515
	PLY-1	3/4" PLYWOOD FINISH 8' - 0" A.F.F., U.O.N.

FINISH LEGEND

0000 KEYNOTE TAG

624	BUILT-IN MILLWORK COUNTER - SEE 17 / A9.61	1154	MICROWAVE - OWNER PROVIDED
1024	DISPENSER	1157	ICE MAKER - OWNER PROVIDED
1025	RECESSED WASTE RECEPTACLE AND PAPER TOWEL DISPENSER UNIT	2103	SPRINKLER, S.FP.D.
1030	RECESSED SEAT COVER, AND TOILET PAPER, DISPENSER, WASTE DISPOSAL	2105	FIRE EXTINGUISHER CABINET
1039	MIRROR	2204	FLOOR DRAIN, S.P.D.
1049	36" GRAB BAR	2207	FAUCET, S.P.D.
1152	REFRIGERATOR - OWNER PROVIDED	2209	WALL MOUNTED WATER CLOSET, S.P.D.
		2214	HOSE BIB, S.P.D.
		2222	KITCHEN SINK, S.P.D.
		2305	24"X24" ACCESS PANEL
		2650	LIGHTING FIXTURE; S.E.D.

KEYNOTE LEGEND

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file: Autodesk Docs://chabot m&o/20-296-chabot 2-story.rvt
12/13/2024 11:51:33 AM

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-121159 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 2/19/2025

CHABOT COLLEGE

CLIENT
CHABOT COLLEGE
25555 HESPERIAN BLVD
HAYWARD, CA 94612

ARCHITECT
HGA
405 14th Street, Suite 500
Oakland, CA 94612
510.516.0167
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#	date	issue description
2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

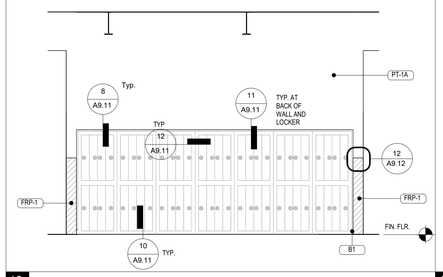
REGISTERED ARCHITECT C-31115 LICENSE RENEWAL DATE OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

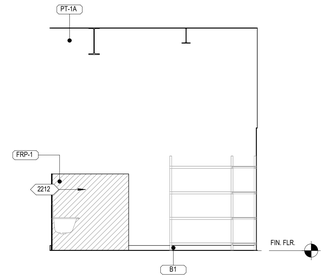
project number: 20-296
date: DECEMBER 17, 2024

ENLARGED PLAN AND ELEVATIONS - SINGLE RESTROOM AND KITCHENETTE

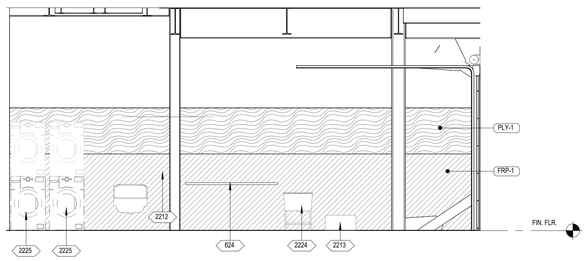
A6.04



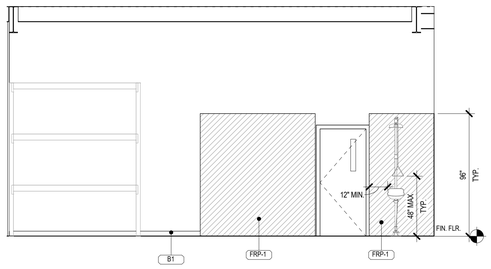
16 A6.05 INTERIOR ELEVATION - LOCKERS AT CIRCULATION 1/4" = 1'-0"



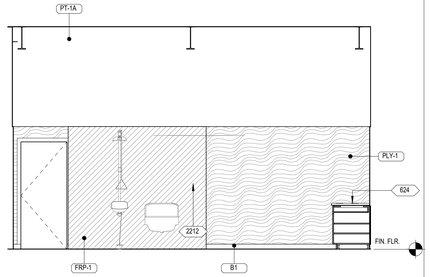
11 A6.05 INTERIOR ELEVATION - PAINT SHOP - WEST 1/4" = 1'-0"



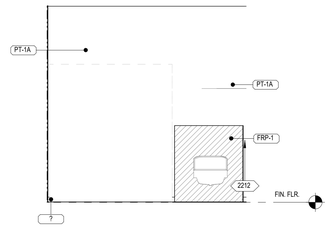
12 A6.05 INTERIOR ELEVATION - CUSTODIAL - EAST 1/4" = 1'-0"



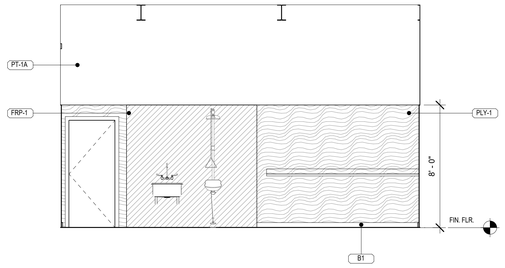
19 A6.05 INTERIOR ELEVATION - WAREHOUSE SERVICE 1/4" = 1'-0"



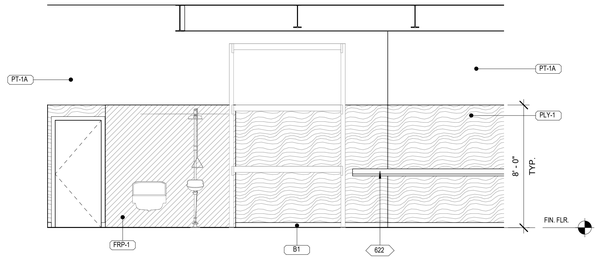
15 A6.05 INTERIOR ELEVATION - CARPENTRY SHOP - EAST 1/4" = 1'-0"



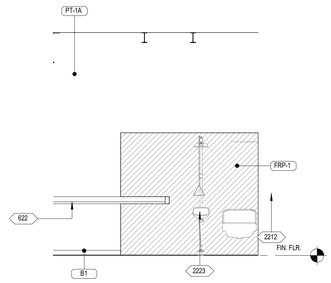
7 A6.05 INTERIOR ELEVATION - PAINT SHOP - SOUTH 1/4" = 1'-0"



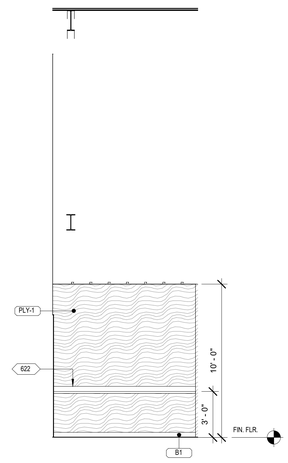
18 A6.05 INTERIOR ELEVATION - HVAC SHOP - EAST 1/4" = 1'-0"



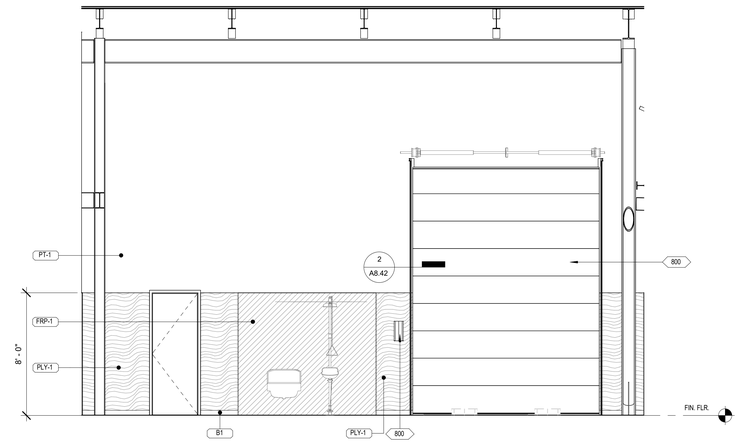
10 A6.05 INTERIOR ELEVATION - GROUNDS SHOP - EAST 1/4" = 1'-0"



17 A6.05 INTERIOR ELEVATION - ELEC. SHOP - CASEWORK 1/4" = 1'-0"



13 A6.05 INTERIOR ELEVATION - VEHICLE MAINT. SHOP - CASEWORK 1/4" = 1'-0"



9 A6.05 INTERIOR ELEVATION - VEHICLE MAINT. SHOP - EAST 1/4" = 1'-0"

SYMBOL	FINISH	TYPE
	SC	SEALED CONCRETE. SMOOTH TROWEL CONCRETE. APPLIED SEALER AFTER CONC. CURING.
	PC	POLISHED CONCRETE. TROWELED WITH FINISH SEALER
	TL-1	FLOOR TILE 12" X 12"
	TL-2	WALL TILE 12" x 24"
	TL-3	FLOOR TILE 12X24 AT ELEVATOR
	CPT-1	CARPET TILE
	CPT-2	CARPET TILE
	EC	CONCRETE AT EXTERIOR. SEALED CONCRETE, S.L.D. S.C.D.
	VCT - 1	VINYL COMPOSITION TILE
	VCT - 2	ANTI-STATIC VINYL COMPOSITION TILE
	VCT - 3	VINYL COMPOSITION TILE
	SS-1	SOLID SURFACE. KITCHEN COUNTER AND BACKSPLASH
	B1	4" RUBBER BASE
	B2	4" MIN. TILE BASE
	PAINT - PT-1A	BM OC-152 SUPER WHITE, EGGSHELL @ TYP. GYP BOARD WALLS, AT UNDERSIDE OF EXPOSED METAL DECK, EXPOSED MECH PIPES, DUCTS, CONDUITS, MECH. DIFFUSERS SIM. INTERIOR DOOR FRAME AND PANEL PAINT COLOR SHALL MATCH INTERIOR WALL COLOR, TYP.
	PAINT - PT-2A	BM286 LUXURIOUS GOLD, SEMI-GLOSS.
	PAINT - PT-3B	BM 1635 WATER'S EDGE, SEMI-GLOSS. INTERIOR DOOR FRAME AND PANEL PAINT COLOR SHALL MATCH INTERIOR WALL COLOR, TYP.
	PAINT - PT-4B	ALL INTERIOR STRUCTURAL STEEL, STAIR FRAMING, STAIR METAL PAN, AND HANDRAILS SHALL BE PAINTED TO MATCH EXTERIOR METAL BLDG. PANEL 'BLUE GRAY' COLOR. ARCHITECT TO APPROVE SELECTED FINISH COLOR. SEMI-GLOSS.
	PAINT - PT-5B	BM CC-782 GEORGIAN BAY, SEMI-GLOSS. INTERIOR DOOR FRAME AND PANEL PAINT COLOR SHALL MATCH INTERIOR WALL COLOR, TYP.
	PAINT - PT-7B	EXTERIOR DOOR FRAME AND PANEL, DOWNSPOUTS, GUTTER, AND ROOF LADDER PAINT COLOR SHALL MATCH EXTERIOR WALL 'CHROMIUM GRAY' COLOR. ARCHITECT TO APPROVE SELECTED FINISH COLOR.
	PAINT- PT-8B1 (CP-1)	BM CC-782 GEORGIAN BAY, CEMENTIOUS WALL PANEL 1 FINISH COLOR. EXTERIOR DOOR FRAME AND PANEL PAINT COLOR TO MATCH EXTERIOR WALL COLOR.
	PAINT - PT-8B2 (CP-2)	CHROMIUM GRAY. CEMENTIOUS WALL PANEL 2 FINISH COLOR. EXTERIOR DOOR FRAME AND PANEL PAINT COLOR TO MATCH EXTERIOR WALL COLOR.
	FRP -1	FIBERGLASS REINFORCED PLASTIC
	PL -1	PLASTIC LAMINATE - WILSON ART NILE VELVET 15515
	PLY-1	3/4" PLYWOOD FINISH 8' - 0" A.F.F., U.O.N.

FINISH LEGEND

1. S.E.D. FOR LIGHTING FIXTURES INFORMATION.
2. S.M.D. FOR MECHANICAL EQUIPMENT INFORMATION.
3. ALL ELECTRICAL OUTLETS AT 18" AFF, U.O.N.
4. ALL LIGHT SWITCHES AT 48" AFF, U.O.N.
5. SEE FINISH FLOOR PLANS FOR ALL WALL BASES NOT MODELED OR SHOWN

INTERIOR ELEVATIONS GENERAL NOTES

0000 KEYNOTE TAG

622 COMPUTER & PHONE STATION - SEE 17 / A9.61
624 BUILT-IN MILLWORK COUNTER - SEE 17 / A9.61
800 MOTOR-ASSIST SECTIONAL OVERHEAD DOOR + TRACK - SEE 17/SS.01FOR BRACING DETAILS
2104 SPRINKLER SYSTEM, S.F.P.D.
2212 SINK, S.P.D.
2213 MOP SINK, S.P.D.
2223 EMERGENCY EYE WASH & SHOWER. S.P.D.
2224 DEEP LAUNDRY SINK. S.P.D.
2225 WASHER & DRYER - PROVIDE HOOK-UP PER PLUMBING. S.P.D.

KEYNOTE LEGEND

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	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

#	date	issue description

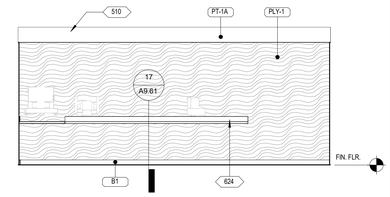
REGISTERED ARCHITECT
C-31715
RENEWAL DATE
STATE OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

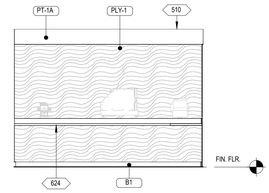
project number: 20-296
date: DECEMBER 17, 2024

INTERIOR ELEVATIONS

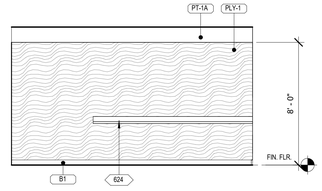
A6.05



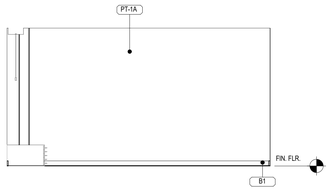
16 A6.06 INTERIOR ELEVATION - LOCKSMITH - SOUTH 1/4" = 1'-0"



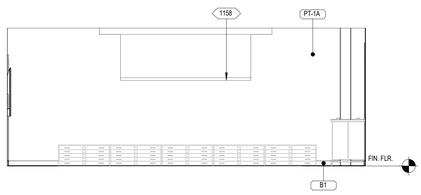
12 A6.06 INTERIOR ELEVATION - LOCKSMITH - EAST 1/4" = 1'-0"



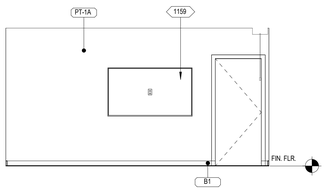
8 A6.06 INTERIOR ELEVATION - LOCKSMITH - NORTH 1/4" = 1'-0"



19 A6.06 INTERIOR ELEVATION - MEETING ROOM 2 - WEST 1/4" = 1'-0"

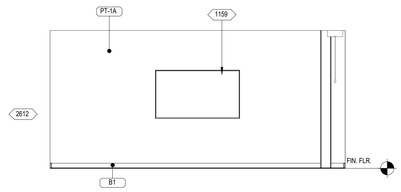


15 A6.06 INTERIOR ELEVATION - MEETING ROOM 2 - SOUTH 1/4" = 1'-0"



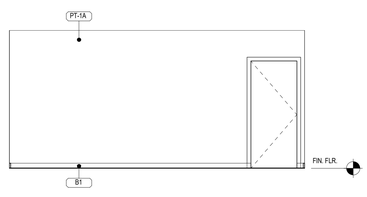
11 A6.06 INTERIOR ELEVATION - MEETING ROOM 2 - EAST 1/4" = 1'-0"

7 A6.06 INTERIOR ELEVATION - MEETING ROOM 2 - NORTH 1/4" = 1'-0"



18 A6.06 INTERIOR ELEVATION - MEETING ROOM 1 - WEST 1/4" = 1'-0"

14 A6.06 INTERIOR ELEVATION - MEETING ROOM 1 - SOUTH 1/4" = 1'-0"



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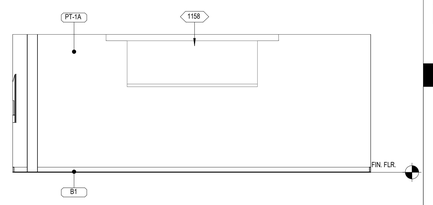

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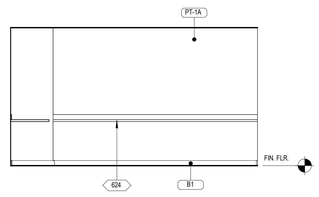
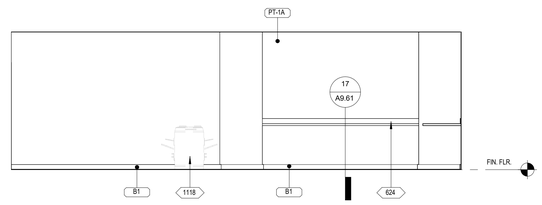


13 A6.06 INTERIOR ELEVATION - ADMIN & LOUNGE AREA - EAST 1/4" = 1'-0"



9 A6.06 INTERIOR ELEVATION - ADMIN & LOUNGE AREA - NORTH 1/4" = 1'-0"

SYMBOL	FINISH	TYPE
	SC	SEALED CONCRETE. SMOOTH TROWEL CONCRETE. APPLIED SEALER AFTER CONC. CURING.
	PC	POLISHED CONCRETE. TROWELED WITH FINISH SEALER
	TL-1	FLOOR TILE 12" X 12"
	TL-2	WALL TILE 12" x 24"
	TL-3	FLOOR TILE 12X24 AT ELEVATOR
	CPT-1	CARPET TILE
	CPT-2	CARPET TILE
	EC	CONCRETE AT EXTERIOR. SEALED CONCRETE, S.L.D. S.C.D.
	VCT - 1	VINYL COMPOSITION TILE
	VCT - 2	ANTI-STATIC VINYL COMPOSITION TILE
	VCT - 3	VINYL COMPOSITION TILE
	SS-1	SOLID SURFACE. KITCHEN COUNTER AND BACKSPLASH
	B1	4" RUBBER BASE
	B2	4" MIN. TILE BASE
	PAINT - PT-1A	BM OC-152 SUPER WHITE, EGGSHELL @ TYP. GYP BOARD WALLS, AT UNDERSIDE OF EXPOSED METAL DECK, EXPOSED MECH PIPES, DUCTS, CONDUITS, MECH. DIFFUSERS SIM. INTERIOR DOOR FRAME AND PANEL PAINT COLOR SHALL MATCH INTERIOR WALL COLOR, TYP.
	PAINT - PT-2A	BM286 LUXURIOUS GOLD, SEMI-GLOSS.
	PAINT - PT-3B	BM 1635 WATER'S EDGE, SEMI-GLOSS. INTERIOR DOOR FRAME AND PANEL PAINT COLOR SHALL MATCH INTERIOR WALL COLOR, TYP.
	PAINT - PT-4B	ALL INTERIOR STRUCTURAL STEEL, STAIR FRAMING, STAIR METAL PAN, AND HANDRAILS SHALL BE PAINTED TO MATCH EXTERIOR METAL BLDG. PANEL "BLUE GRAY" COLOR. ARCHITECT TO APPROVE SELECTED FINISH COLOR. SEMI-GLOSS.
	PAINT - PT-5B	BM CC-782 GEORGIAN BAY. SEMI GLOSS. INTERIOR DOOR FRAME AND PANEL PAINT COLOR SHALL MATCH INTERIOR WALL COLOR, TYP.
	PAINT - PT-7B	EXTERIOR DOOR FRAME AND PANEL, DOWNSPOUTS, GUTTER, AND ROOF LADDER PAINT COLOR SHALL MATCH EXTERIOR WALL "CHROMIUM GRAY" COLOR. ARCHITECT TO APPROVE SELECTED FINISH COLOR.
	PAINT- PT-8B1 (CP-1)	BM CC-782 GEORGIAN BAY, CEMENTIOUS WALL PANEL 1 FINISH COLOR. EXTERIOR DOOR FRAME AND PANEL PAINT COLOR TO MATCH EXTERIOR WALL COLOR.
	PAINT - PT-8B2 (CP-2)	CHROMIUM GRAY, CEMENTIOUS WALL PANEL 2 FINISH COLOR. EXTERIOR DOOR FRAME AND PANEL PAINT COLOR TO MATCH EXTERIOR WALL COLOR.
	FRP -1	FIBERGLASS REINFORCED PLASTIC
	PL -1	PLASTIC LAMINATE - WILSON ART NILE VELVET 15515
	PLY-1	3/4" PLYWOOD FINISH 8' -0" A.F.F., U.O.N.

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2. S.M.D. FOR MECHANICAL EQUIPMENT INFORMATION.
3. ALL ELECTRICAL OUTLETS AT 18" AFF, U.O.N.
4. ALL LIGHT SWITCHES AT 48" AFF, U.O.N.
5. SEE FINISH FLOOR PLANS FOR ALL WALL BASES NOT MODELED OR SHOWN

INTERIOR ELEVATIONS GENERAL NOTES

0000 KEYNOTE TAG

510 STRUCTURE, S.S.D
624 BUILT-IN MILLWORK COUNTER - SEE 17 / A9.61
1118 EQUIPMENT TYP., SEE A11 SERIES
1158 PROJECTION SCREEN, S.AV.D
1159 MONITOR, S.AV.D
2650 LIGHTING FIXTURE, S.E.D.
2651 WALL MOUNTED LIGHTING FIXTURE, S.E.D, S.LT.D.

KEYNOTE LEGEND

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STATE OF CALIFORNIA — C-21 115 — RENEWAL DATE

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project number: 20-296
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INTERIOR ELEVATIONS

A6.06

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SYMBOL	FINISH	TYPE
	SC	SEALED CONCRETE. SMOOTH TROWEL CONCRETE. APPLIED SEALER AFTER CONC. CURING.
	PC	POLISHED CONCRETE. TROWELED WITH FINISH SEALER
	TL-1	FLOOR TILE 12" X 12"
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	VCT - 3	VINYL COMPOSITION TILE
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	PAINT - PT-2A	BM286 LUXURIOUS GOLD, SEMI-GLOSS.
	PAINT - PT-3B	BM 1635 WATER'S EDGE, SEMI-GLOSS. INTERIOR DOOR FRAME AND PANEL PAINT COLOR SHALL MATCH INTERIOR WALL COLOR, TYP.
	PAINT - PT-4B	ALL INTERIOR STRUCTURAL STEEL, STAIR FRAMING, STAIR METAL PAN, AND HANDRAILS SHALL BE PAINTED TO MATCH EXTERIOR METAL BLDG. PANEL 'BLUE GRAY' COLOR. ARCHITECT TO APPROVE SELECTED FINISH COLOR. SEMI-GLOSS.
	PAINT - PT-5B	BM CC-782 GEORGIAN BAY, SEMI GLOSS. INTERIOR DOOR FRAME AND PANEL PAINT COLOR SHALL MATCH INTERIOR WALL COLOR, TYP.
	PAINT - PT-7B	EXTERIOR DOOR FRAME AND PANEL, DOWNSPOUTS, GUTTER, AND ROOF LADDER PAINT COLOR SHALL MATCH EXTERIOR WALL 'CHROMIUM GRAY' COLOR. ARCHITECT TO APPROVE SELECTED FINISH COLOR.
	PAINT- PT-8B1 (CP-1)	BM CC-782 GEORGIAN BAY. CEMENTICIUS WALL PANEL 1 FINISH COLOR. EXTERIOR DOOR FRAME AND PANEL PAINT COLOR TO MATCH EXTERIOR WALL COLOR.
	PAINT - PT-8B2 (CP-2)	CHROMIUM GRAY. CEMENTICIUS WALL PANEL 2 FINISH COLOR. EXTERIOR DOOR FRAME AND PANEL PAINT COLOR TO MATCH EXTERIOR WALL COLOR.
	FRP -1	FIBERGLASS REINFORCED PLASTIC
	PL -1	PLASTIC LAMINATE - WILSON ART NILE VELVET 15515
	PLY-1	3/4" PLYWOOD FINISH 8' - 0" A.F.F., U.O.N.

FINISH LEGEND

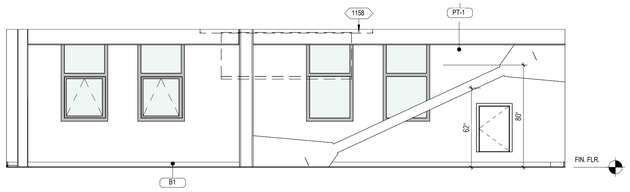
1. S.E.D. FOR LIGHTING FIXTURES INFORMATION.
2. S.M.D. FOR MECHANICAL EQUIPMENT INFORMATION.
3. ALL ELECTRICAL OUTLETS AT 18" AFF, U.O.N.
4. ALL LIGHT SWITCHES AT 48" AFF, U.O.N.
5. SEE FINISH FLOOR PLANS FOR ALL WALL BASES NOT MODELED OR SHOWN

INTERIOR ELEVATIONS GENERAL NOTES

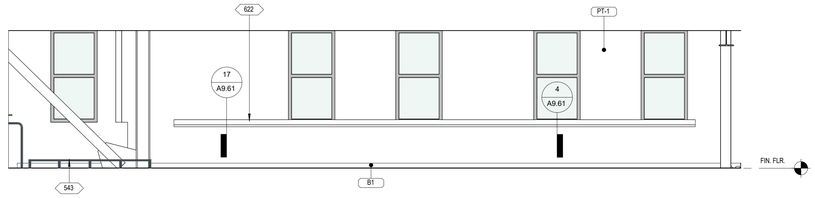
0000 KEYNOTE TAG

543	CANE DETECTABLE BARRIER SEE 16 / A9.51
622	COMPUTER & PHONE STATION - SEE 17 / A9.61
1158	PROJECTION SCREEN, S.AV.D
2650	LIGHTING FIXTURE, S.E.D.

KEYNOTE LEGEND



17 A6.07 INTERIOR ELEVATION - LOUNGE 203 - EAST 1/4" = 1'-0"



9 A6.07 INTERIOR ELEVATION - LOUNGE 203 - NORTH 1/4" = 1'-0"

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REGISTERED ARCHITECT C-31115 RENEWAL DATE OF CALIFORNIA

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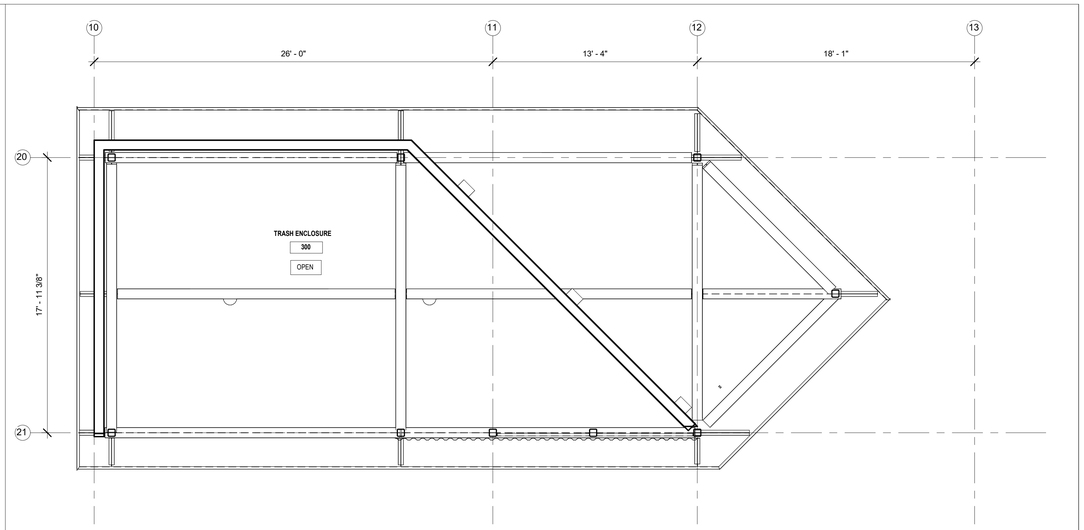
25555 HESPERIAN BLVD, HAYWARD, CA 94545

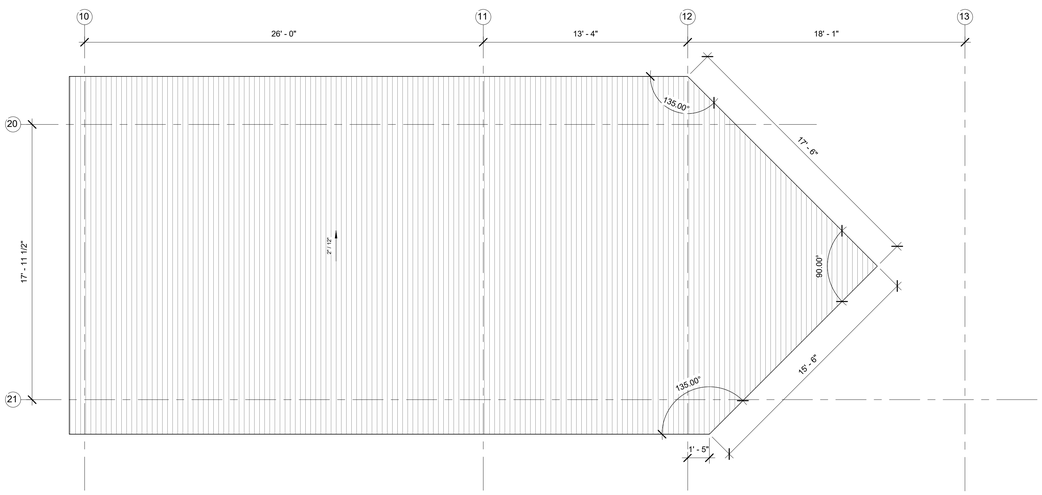
project number: 20-296
date: DECEMBER 17, 2024

INTERIOR ELEVATIONS

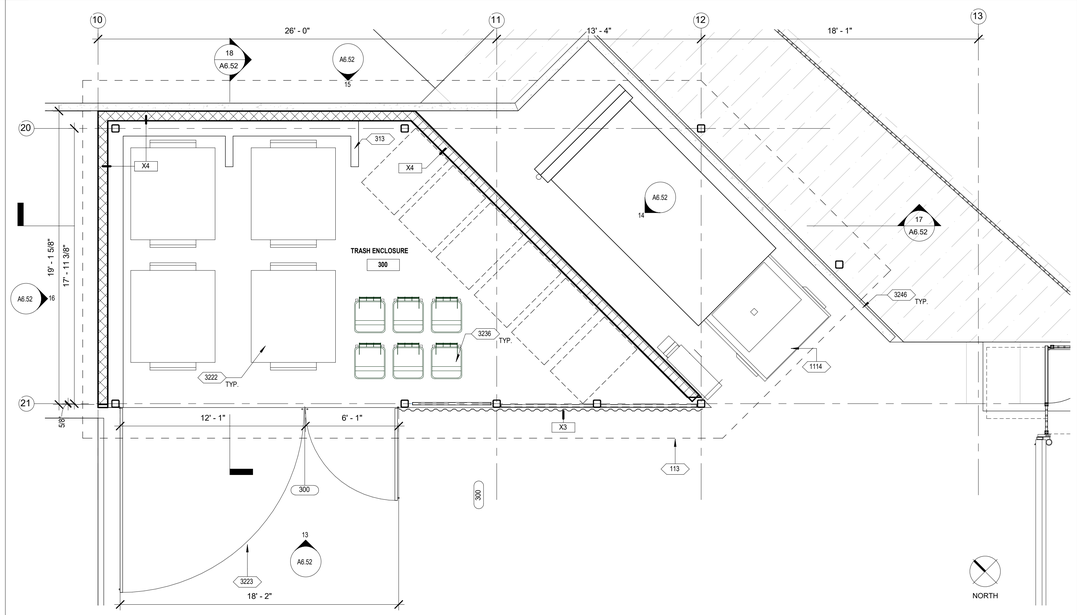
A6.07



12 REFLECTED CEILING PLAN -TRASH ENCLOSURE A6.51 — 1/4" = 1'-0"



18 A6.51 ENLARGED ROOF PLAN - TRASH ENCLOSURE — 1/4" = 1'-0"



10 A6.51 ENLARGED FLOOR PLAN - TRASH ENCLOSURE — 1/4" = 1'-0"

CL-1 GWB CEILING, PTD.

METAL ROOF AND FRAMING

SUSPENDED ACOUSTIC TILE CEILING

METAL DECK

10'-0" CEILING HEIGHT A.F.F.

ILLUMINATED EXIT SIGN, S.E.D.

FIRE SPRINKLER

24" X 24" ACCESS PANEL

AIR EXHAUST

AIR RETURN

AIR SUPPLY

RECESSED LINEAR LUMINAIRE

RECESSED LUMINAIRE

RECESSED LUMINAIRE CONNECTED TO EMERGENCYLIFE SAFETY CIRCUIT

SURFACE MOUNTED 2' X 2' LUMINAIRE

SURFACE MOUNTED 2' X 2' LUMINAIRE CONNECTED TO EMERGENCYLIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT

SURFACE OR PENDANT MOUNTED LUMINAIRE

SURFACE OR PENDANT MOUNTED LUMINAIRE CONNECTED TO EMERGENCYLIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT

SURFACE OR PENDANT MOUNTED STRIPLIGHT

SURFACE OR PENDANT MOUNTED STRIPLIGHT CONNECTED TO EMERGENCYLIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT

WALL MOUNTED STRIPLIGHT

WALL MOUNTED STRIPLIGHT CONNECTED TO EMERGENCYLIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT

WALL MOUNTED LUMINAIRE

WALL MOUNTED LUMINAIRE CONNECTED TO EMERGENCYLIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT

REFLECTED CEILING PLAN LEGEND

TRUNCATED DOMES, SLD., S.C.D.

CMU WALL

NEW PARTITION

2 HR. FIRE RATED WALL CONSTRUCTION

A01A PARTITION TAG

FD FLOOR DRAIN

ROOF DRAIN

ENLARGED FLOOR PLAN LEGEND

0000 KEYNOTE TAG

113	ROOF OUTLINE ABOVE
313	CONCRETE CURBS, TYP., S.C.D.
1114	TRASH COMPACTOR - ROLL OFF [NON-PERMANENT]
3222	RELOCATED DUMPSTERS
3223	SECURE SWINGING ENCLOSURE GATES - PER HAYWARD STANDARD DESIGN REQUIREMENTS FOR COLLECTION & STORAGE OF TRASH, RECYCLABLES & ORGANICS
3236	TRASH BINS
3246	CONCRETE CURB, S.C.D.

KEYNOTE LEGEND

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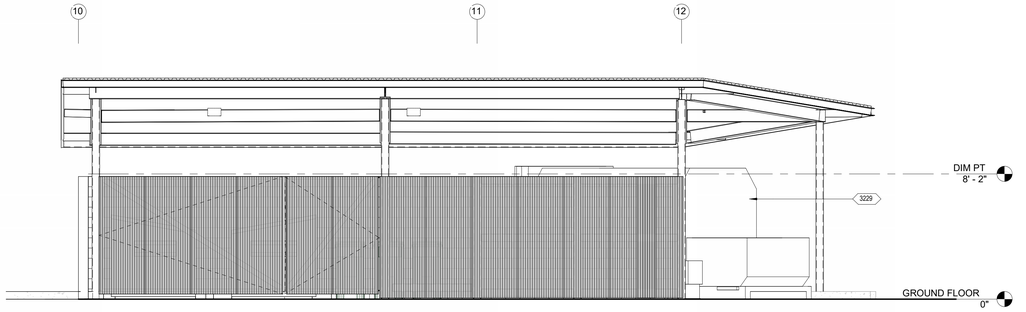
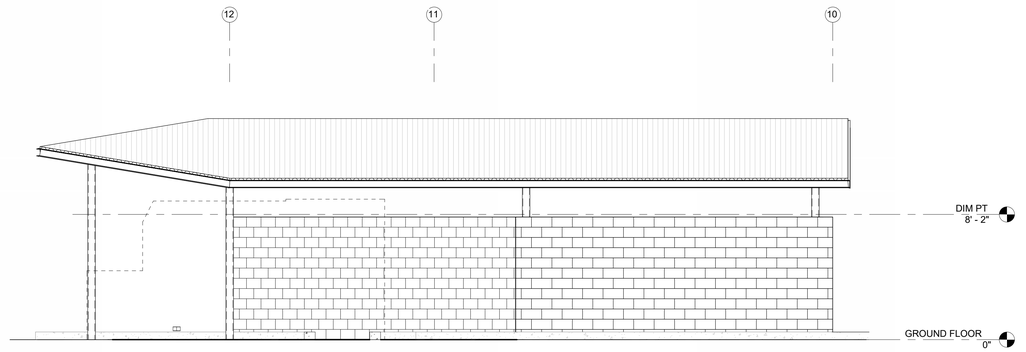
ENLARGED FLOOR PLAN & RCP - TRASH ENCLOSURE

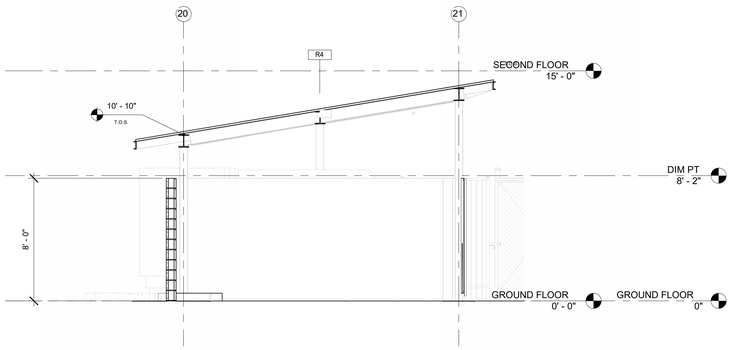
A6.51



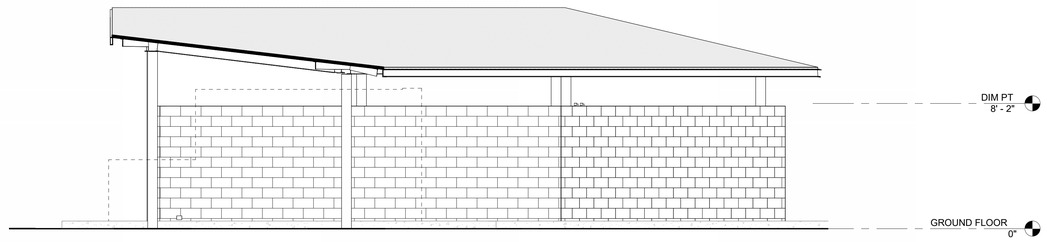
13 A6.52 ELEVATION - TRASH ENCLOSURE FRONT 1/4" = 1'-0"



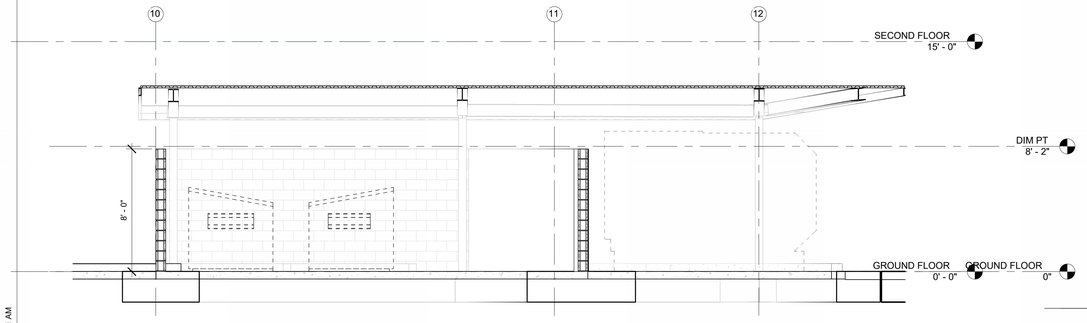
15 A6.52 ELEVATION - TRASH ENCLOSURE BACK 1/4" = 1'-0"



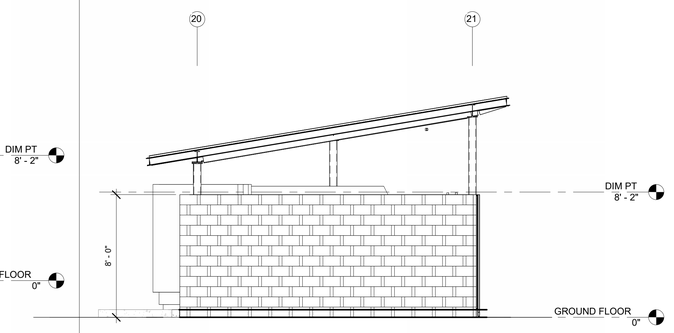
18 A6.52 TRANS. SECTION - TRASH ENCLOSURE 1/4" = 1'-0"



14 A6.52 ELEVATION - TRASH ENCLOSURE EAST 1/4" = 1'-0"



17 A6.52 LONG SECTION - TRASH ENCLOSURE 1/4" = 1'-0"



16 A6.52 ELEVATION - TRASH ENCLOSURE WEST 1/4" = 1'-0"

0000 KEYNOTE TAG

3229 ROLL-OFF TRANSPORTABLE TRASH COMPACTOR, S.C.D., S.E.D. [NON-ANCHORED]

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EXTERIOR ELEVATIONS & SECTIONS- TRASH ENCLOSURE

A6.52

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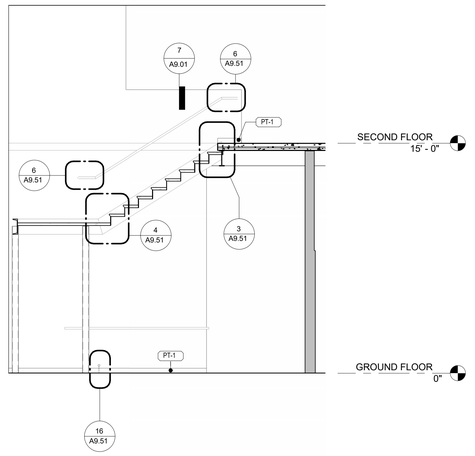
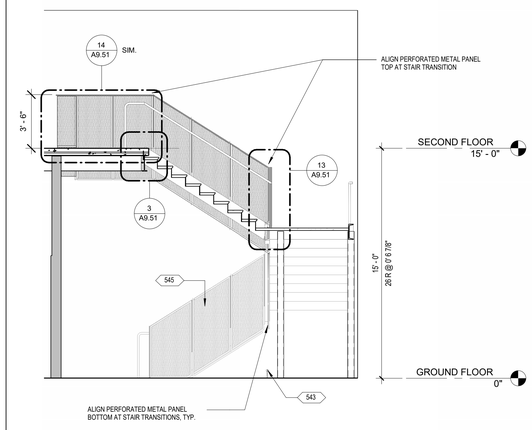
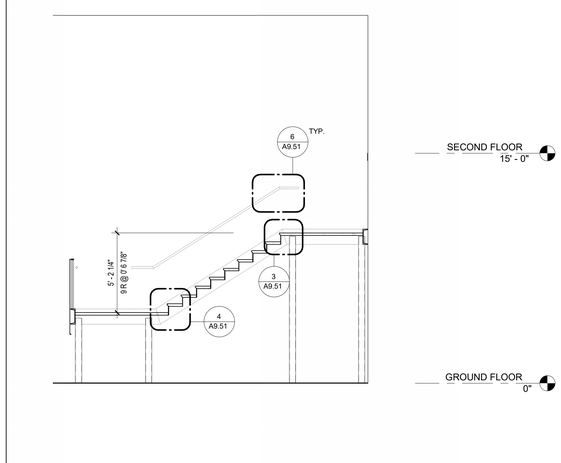


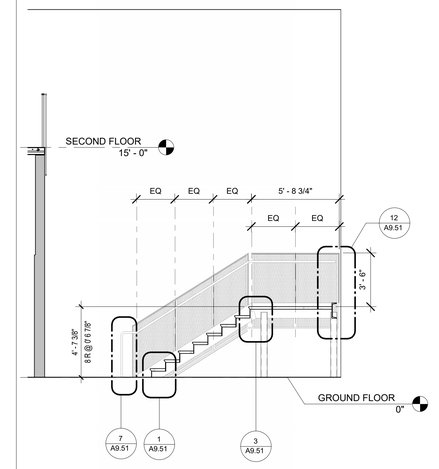
12 A7.01 STAIR #1 - SECTION 12 1/4" = 1'-0"



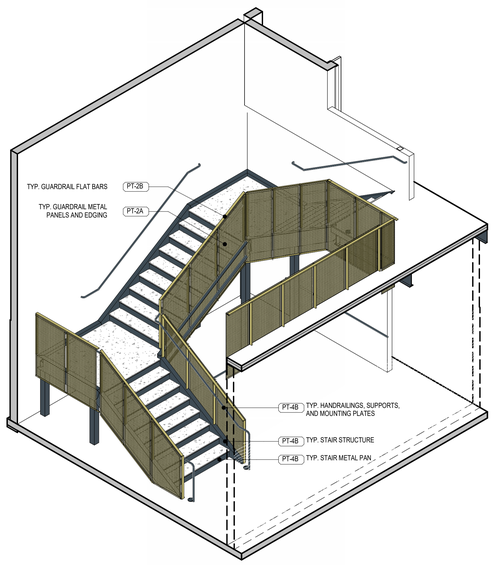
9 A7.01 STAIR #1 - SECTION 9 1/4" = 1'-0"



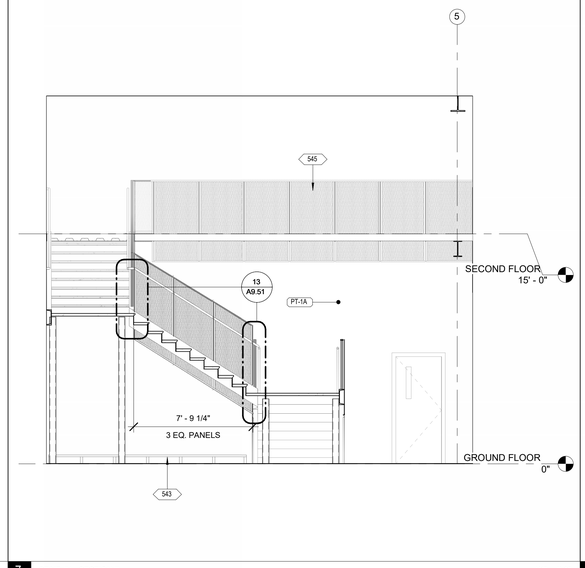
6 A7.01 STAIR #1 - SECTION 6 1/4" = 1'-0"



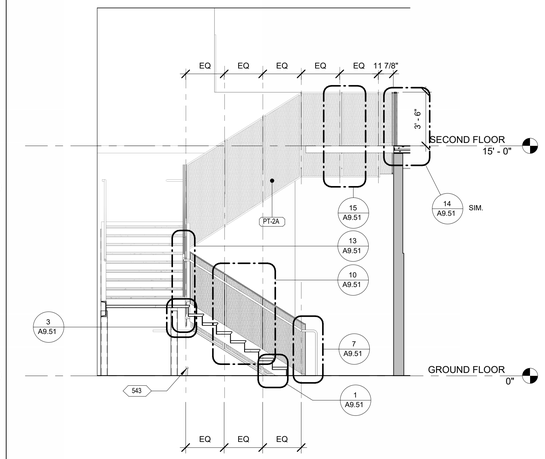
3 A7.01 STAIR #1 - SECTION 3 1/4" = 1'-0"



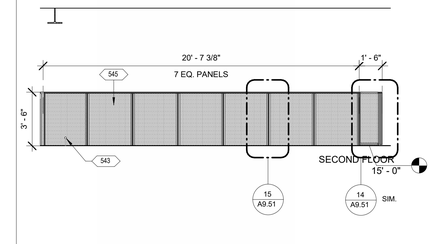
11 A7.01 STAIR #1 AXON



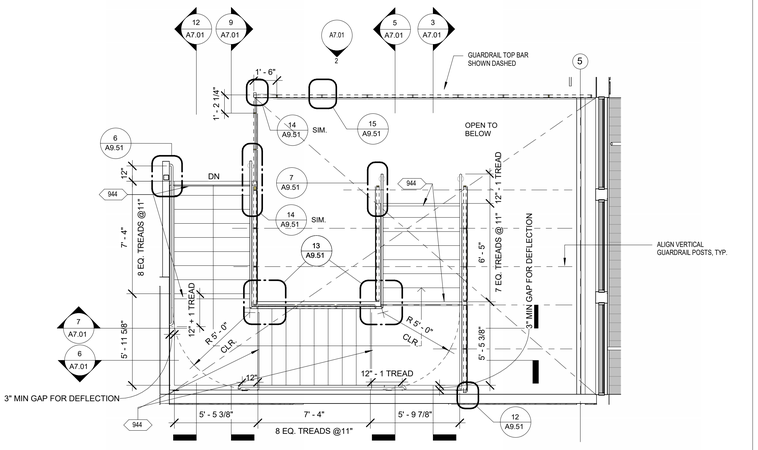
7 A7.01 STAIR #1 - SECTION 7 1/4" = 1'-0"



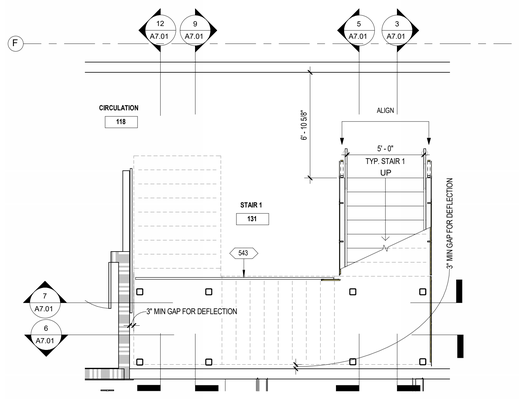
5 A7.01 STAIR #1 - SECTION 5 1/4" = 1'-0"



2 A7.01 STAIR #1 - RAILING @ SECOND LEVEL 1/4" = 1'-0"



10 A7.01 ENLARGED FLOOR PLAN - STAIR #1 - SECOND LEVEL 1/4" = 1'-0"



4 A7.01 ENLARGED FLOOR PLAN - STAIR #1 - GROUND LEVEL 1/4" = 1'-0"

1. SEE A9.51 FOR STAIR AND GUARDRAIL & HANDRAIL DETAILS.
2. SEE A5.01 AND A5.02 FOR FINISHES.
3. FOR STAIR HAND RAIL EXTENSION, TERMINATION, AND MOUNTING HEIGHTS, SEE A9.51.
4. PERFORATED METAL PANEL BASIS OF DESIGN:
   MCNICHOLS PERFORATED METAL - ROUND, STAINLESS STEEL, TYPE 304, 11 GAUGE (.1250" THICK), 3/8" ROUND ON 1/2" STAGGERED CENTERS, 51% OPEN AREA - PAINTED

STAIR GENERAL NOTES

543 CANE DETECTABLE BARRIER SEE 16 / A9.51
545 PERFORATED METAL PANEL - STAIR GUARDRAIL
944 CONTRASTING NOSING STRIP

0000 KEYNOTE TAG

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	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

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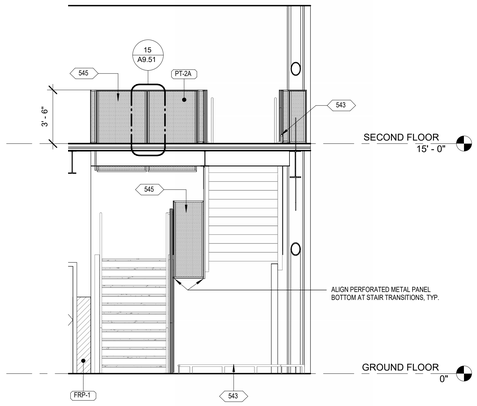
25555 HESPERIAN BLVD, HAYWARD, CA 94545

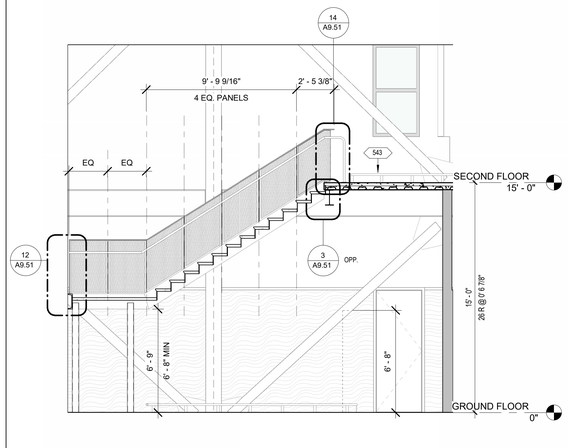
project number: 20-296
date: DECEMBER 17, 2024

STAIR #1 PLANS AND SECTIONS

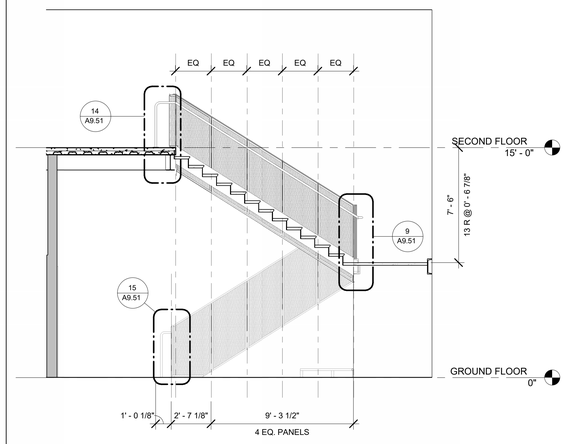
A7.01



13 A7.02 STAIR #2 - ELEVATION 1/4" = 1'-0"



10 A7.02 STAIR #2 - SECTION 10 1/4" = 1'-0"



7 A7.02 STAIR #2 - SECTION 7 1/4" = 1'-0"

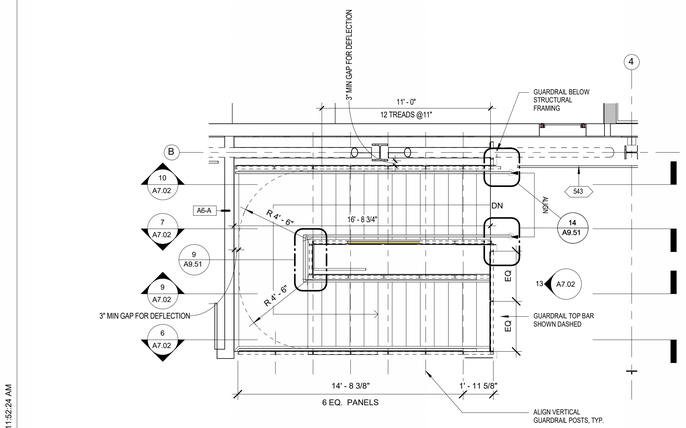
12 A7.02 STAIR #2 AXON

9 A7.02 STAIR #2 - SECTION 9 1/4" = 1'-0"

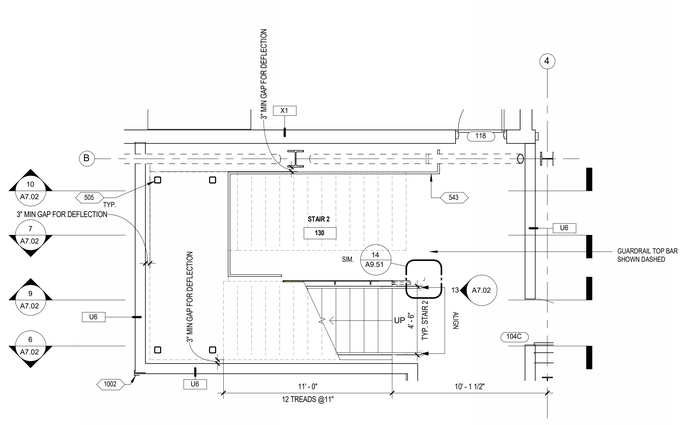
6 A7.02 STAIR #2 - SECTION 6 1/4" = 1'-0"

STAIR GENERAL NOTES

1. SEE A9.51 FOR STAIR AND GUARDRAIL & HANDRAIL DETAILS.
2. SEE A5.01 AND A5.02 FOR FINISHES.
3. FOR STAIR HAND RAIL EXTENSION, TERMINATION, AND MOUNTING HEIGHTS, SEE A9.51.
4. PERFORATED METAL PANEL BASIS OF DESIGN:
   MCNICHOLS PERFORATED METAL - ROUND, STAINLESS STEEL, TYPE 304, 11 GAUGE (.1250" THICK), 3/8" ROUND ON 1/2" STAGGERED CENTERS, 51% OPEN AREA - PAINTED



11 A7.02 ENLARGED FLOOR PLAN - STAIR #2 - SECOND LEVEL 1/4" = 1'-0"



5 A7.02 ENLARGED FLOOR PLAN - STAIR #2 - GROUND LEVEL 1/4" = 1'-0"

ENLARGED FLOOR PLAN LEGEND

- TRUNCATED DOMES, SLD., S.C.D.
- CMU WALL
- NEW PARTITION
- 2 HR. FIRE RATED WALL CONSTRUCTION
- A01A — PARTITION TAG
- FD — FLOOR DRAIN
- ROOF DRAIN

KEYNOTE LEGEND

- **505** HSS COLUMN, S.S.D.
- **543** CANE DETECTABLE BARRIER SEE 16 / A9.51
- **545** PERFORATED METAL PANEL - STAIR GUARDRAIL
- **1002** S.S. CORNER GUARD

0000 KEYNOTE TAG

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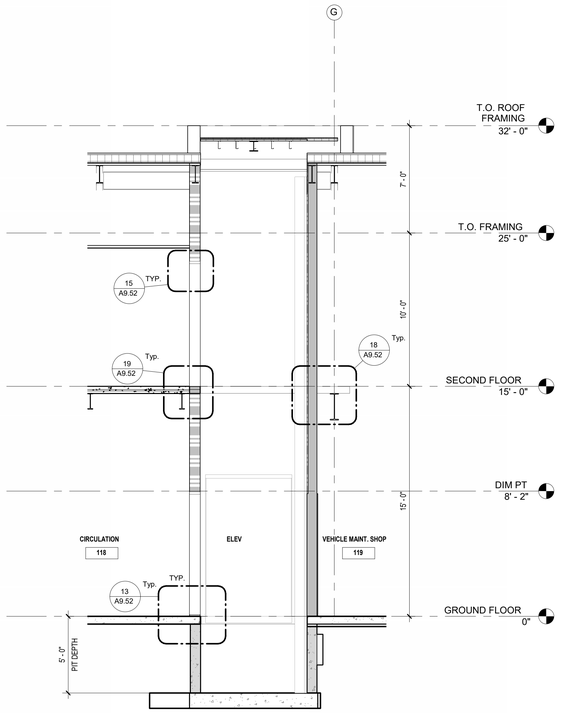
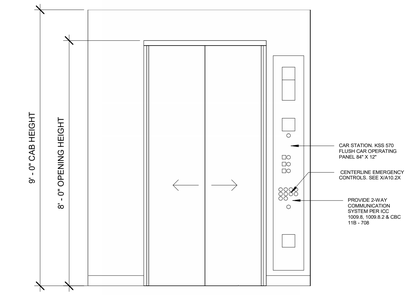
STAIR #2 PLANS AND SECTIONS

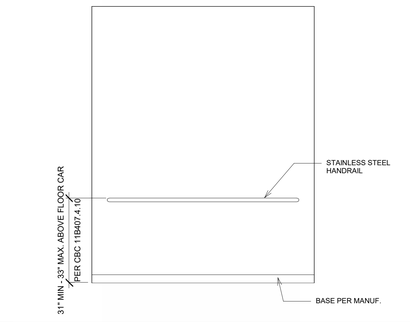
A7.02



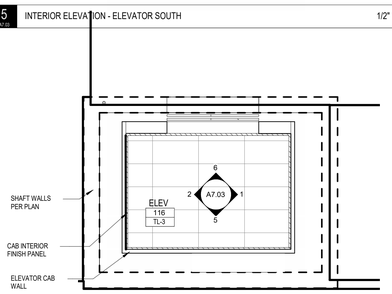
8 A7.03 ELEVATOR - WEST 1/4" = 1'-0"



6 A7.03 ELEVATOR CAB - INTERIOR ELEVATIONS NORTH 1/2" = 1'-0"

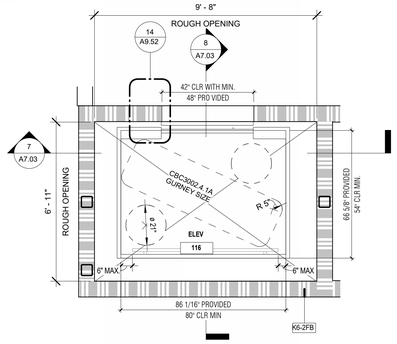


5 A7.03 INTERIOR ELEVATION - ELEVATOR SOUTH 1/2" = 1'-0"



NOTES:
SEE SPECIFICATIONS FOR WALL AND CEILING FINISHES.

4 A7.03 ELEVATOR CAB FLOOR FINISH PLAN 3/8" = 1'-0"

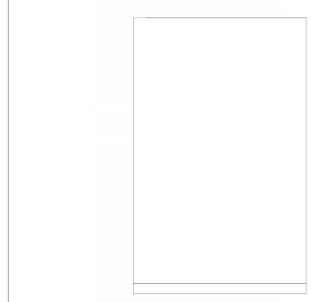


CAR DIMENSIONS FOR CENTERED DOOR (CBC 11B-407.4.1)

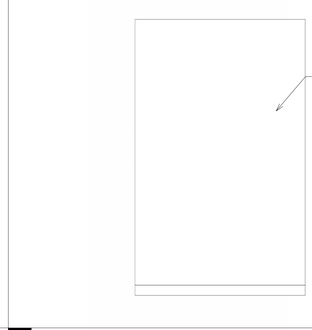
ELEVATOR SUPPORT RAIL (CBC 11B-407.4.10)

* ELEVATOR GUIDES, RAILS, AND SUPPORTS ARE A DEFERRED SUBMITTAL ITEM

3 A7.03 TYP. ELEVATOR PLAN - GROUND AND SECOND LEVEL 3/8" = 1'-0"



2 A7.03 INTERIOR ELEVATION - ELEVATOR WEST 1/2" = 1'-0"



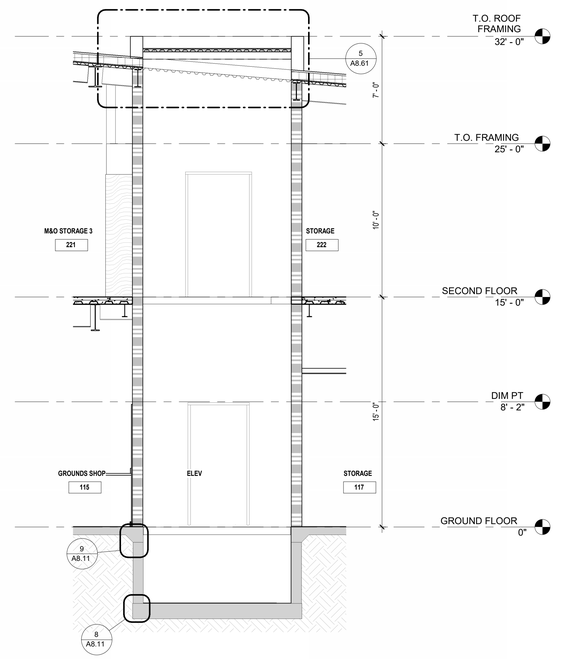
1 A7.03 INTERIOR ELEVATION - ELAVATOR EAST 1/2" = 1'-0"

1. FOR WALL TYPES, SEE DIMENSION AND WALL TYPE PLANS.
2. FOR GENERAL ELEVATOR DESCRIPTION, SEE SPECS.
3. SEE A9/51 FOR ELEVATOR DETAILS.
4. SEE G1.13 FOR ADDITIONAL ELEVATION INFORMATION.

ELEVATOR GENERAL NOTES

0000 KEYNOTE TAG

KEYNOTE LEGEND



7 A7.03 ELEVATOR - NORTH 1/4" = 1'-0"

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ELEVATOR PLANS AND SECTIONS

A7.03

TAG	CROSS SECTION	HOUR RATING PARTITION TYPE REFERENCE STANDARD
X4		NON RATED

4 A8.01 X4 - CMU WALL 3" = 1'-0"

TAG	CROSS SECTION	HOUR RATING PARTITION TYPE REFERENCE STANDARD
		NON RATED

3 A8.01 X3 - METAL PANEL SCREEN 3" = 1'-0"

TAG	CROSS SECTION	HOUR RATING PARTITION TYPE REFERENCE STANDARD
		NON RATED

2 A8.01 X2 - FIBER CEMENT BOARD CLADDING ASSEMBLY 3" = 1'-0"

TAG	CROSS SECTION	HOUR RATING PARTITION TYPE REFERENCE STANDARD
X1A		NON RATED
X1B		

1 A8.01 X1- CORRUGATED METAL PANEL 3" = 1'-0"

1. ALL FULL HEIGHT GWB SHALL EXTEND TO UNDERSIDE OF DECK ABOVE, U.O.N.
2. GYPSUM WALL BOARD ARE NON-RATED UNLESS OTHERWISE NOTED IN PARTITION TYPE.
3. BATT INSULATION SHALL BE FULL DEPTH OF PARTITION CAVITY, U.O.N.
4. SEE STRUCTURAL DRAWINGS FOR FRAMING AND STRUCTURAL PARTITION INFORMATION.

TYP. WALL ASSEMBLIES GENERAL NOTES

VAPOR BARRIER
AIR AND WATER BARRIER (AWB)
SELF ADHERED FLASHING
HIGH TEMP SELF ADHERED FLASHING
BELOW GRADE HORIZ BARRIER
BELOW GRADE VERT BARRIER
SINGLE PLY ADHERED ROOF MEMBRANE
DRAIN MAT/ROOT BARRIER, S.L.D.

MEMBRANE LEGEND

GENERAL NOTE:
ALUMINUM FLASHING FINISH TO MATCH MULLIONS U.O.N.

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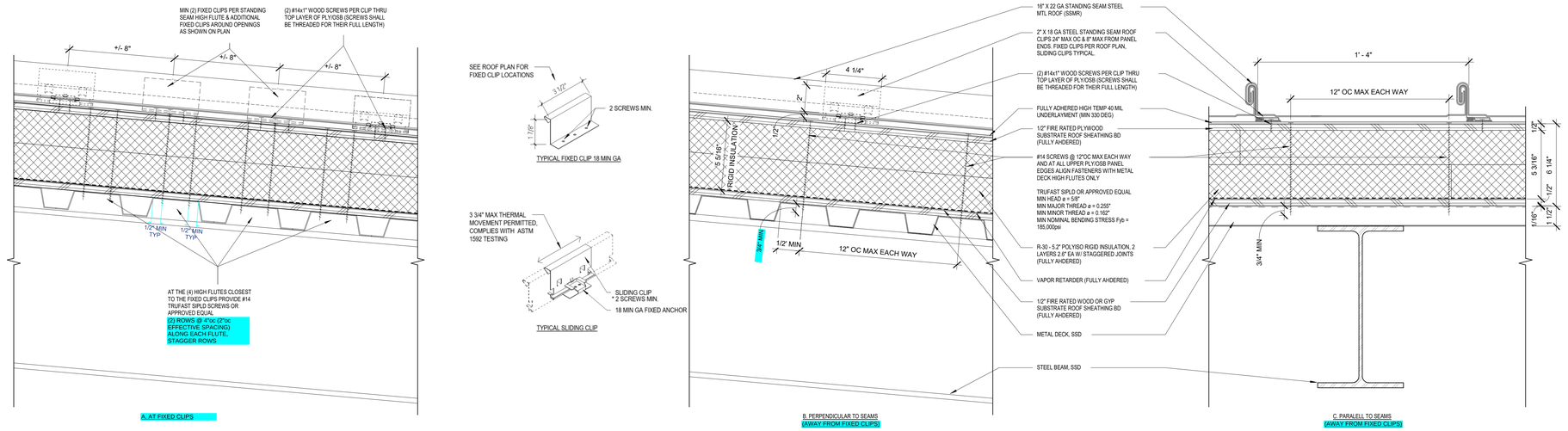
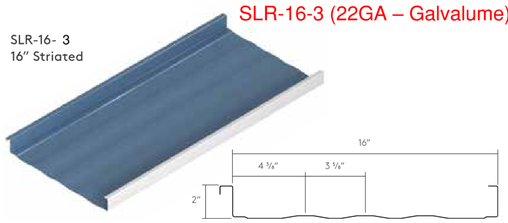
EXTERIOR DETAILS - TYPICAL WALL ASSEMBLIES

A8.01



8 A4.02 R1, ROOF ASSEMBLY - STANDING SEAM METAL ROOF — 3" = 1'-0"

SLR-16-3 (22GA – Galvalume)



Cover Width:
12" (305mm) – 18" (457mm)

Lengths:
5' (1.52m) to 30' (9.14m) standard.
Shorter and longer lengths available

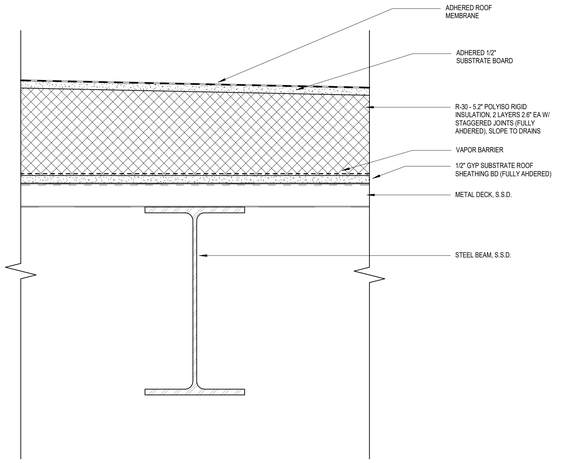
Galvalume® / Zincalume® Painted Steel Options:
22 GA (.76mm) / 24 GA (.60mm)

Aluminum Options:
.040" (1mm) / .032" (0.813mm)

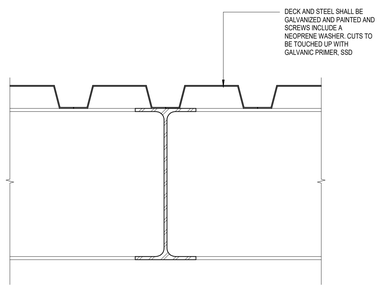
VAPOR BARRIER
AIR AND WATER BARRIER (AWB)
SELF ADHERED FLASHING
HIGH TEMP SELF ADHERED FLASHING
BELOW GRADE HORIZ BARRIER
BELOW GRADE VERT BARRIER
SINGLE PLY ADHERED ROOF MEMBRANE
DRAIN MAT/ROOT BARRIER, S.L.D.

GENERAL NOTE:
ALUMINUM FLASHING FINISH TO MATCH MULLIONS U.O.N.

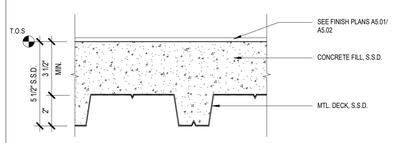
MEMBRANE LEGEND



6 A4.02 R3, ROOF ASSEMBLY - ADHERED MEMBRANE — 3" = 1'-0"

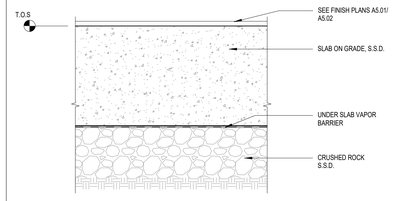


9 A4.02 R4, ROOF ASSEMBLY - EXPOSED METAL DECK — 3" = 1'-0"



GENERAL NOTE:
2 HOUR RATED, PER CBC 722.2.2.1.3 AND CBC TABLE 722.2.2.1

5 A5.02 F1, FLOOR ASSEMBLY - CONCRETE OVER METAL DECK — 3" = 1'-0"



1 A5.02 FDN1, FOUNDATION ASSEMBLY - SLAB ON GRADE — 3" = 1'-0"

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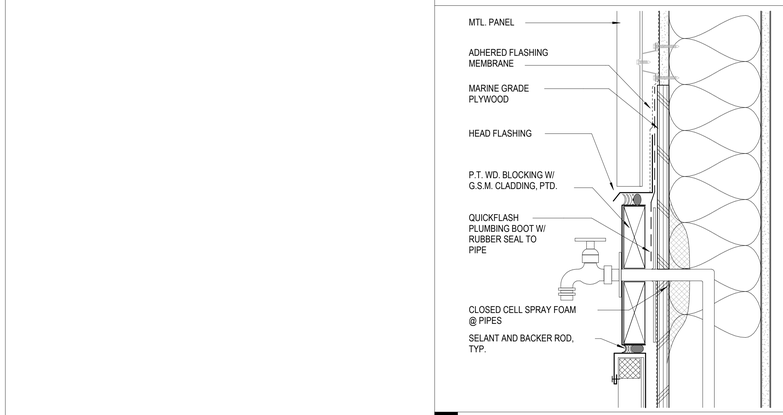
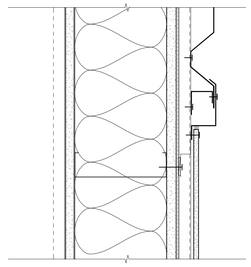
EXTERIOR DETAILS - TYPICAL FLOOR AND ROOF ASSEMBLIES

A8.02

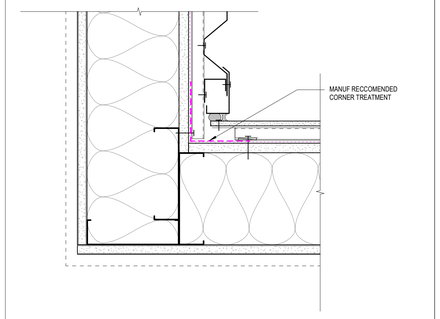
* SEE A8.01 FOR TYPICAL WALL ASSEMBLY CONSTRUCTION



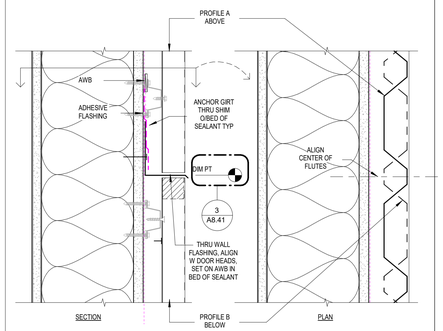
11 A8.11 HOSE BIBB DETAIL, S.P.D. 3" = 1'-0"



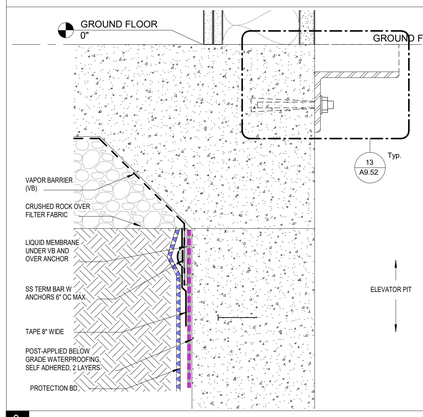
7 A8.11 PLAN DETAIL - METAL AND FC PANELS 3" = 1'-0"



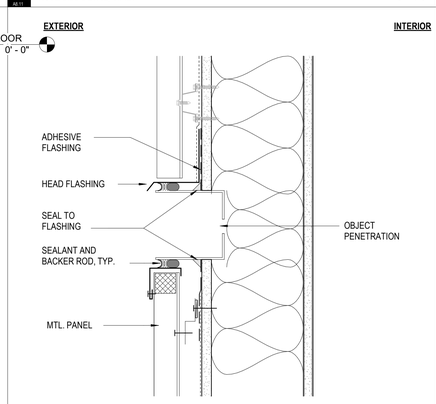
3 A8.11 PLAN DETAIL - INSIDE CORNER AT METAL AND FC PANEL 3" = 1'-0"



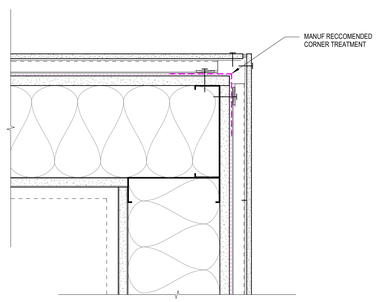
4 A8.11 METAL PANEL STACK JOINT 3" = 1'-0"



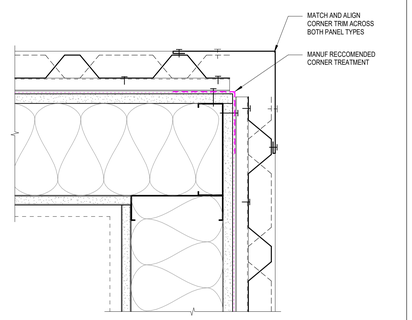
9 A8.11 SECTION DETAIL - TOP OF ELEVATOR PIT 3" = 1'-0"



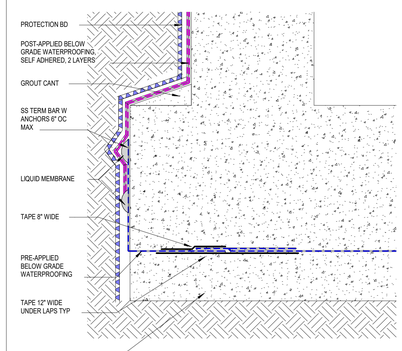
10 A8.11 EXTERIOR WALL PENETRATION - METAL PANEL (FC PANEL SIM) 3" = 1'-0"



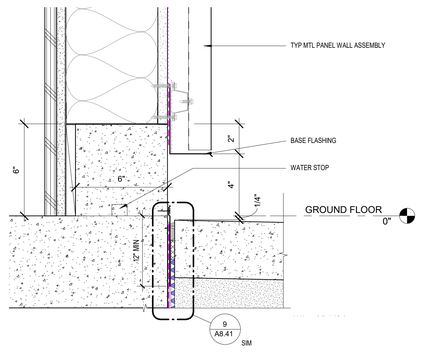
6 A8.11 PLAN DETAIL - OUTSIDE CORNER AT FC PANEL 3" = 1'-0"



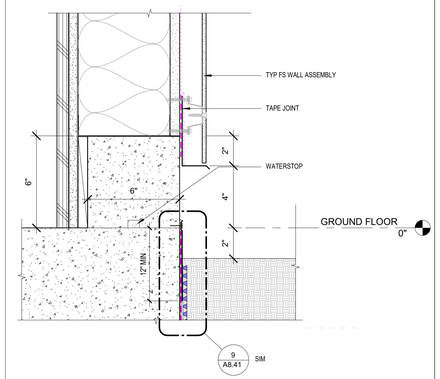
2 A8.11 PLAN DETAIL - OUTSIDE CORNER AT METAL PANEL 3" = 1'-0"



8 A8.11 SECTION DETAIL - BOTTOM OF ELEVATOR PIT 3" = 1'-0"



5 A8.11 METAL PANEL BASE AT SIDEWALK 3" = 1'-0"



1 A8.11 FIBER CEMENT PANEL BASE AT DIRT 3" = 1'-0"

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EXTERIOR DETAILS - WALLS

A8.11

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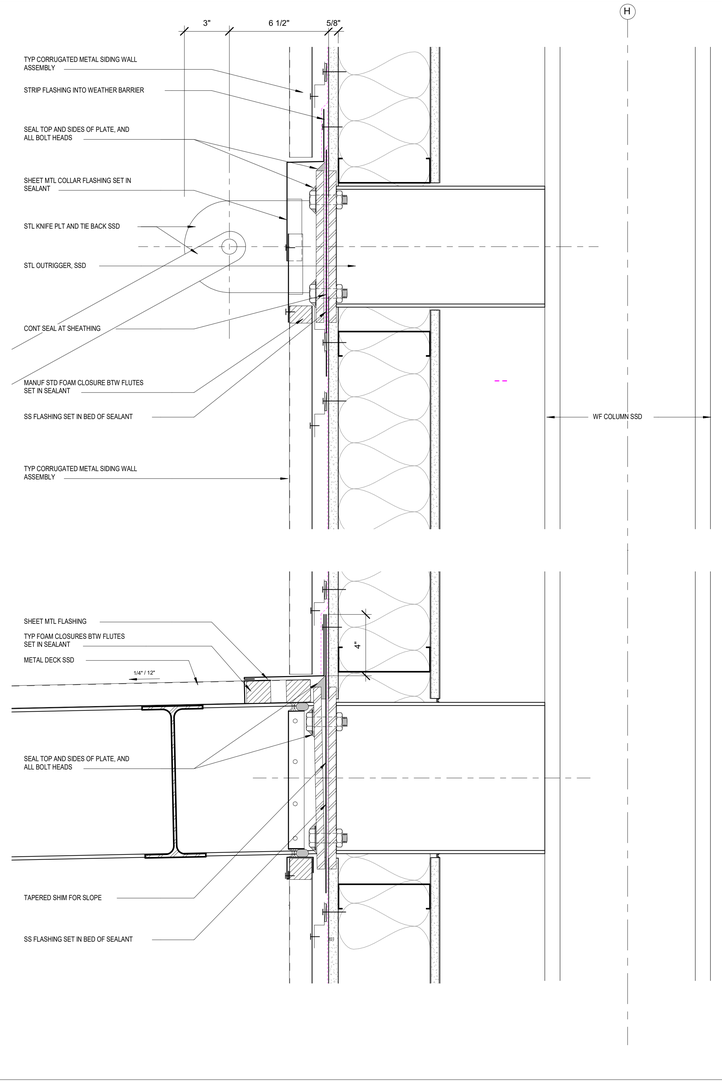
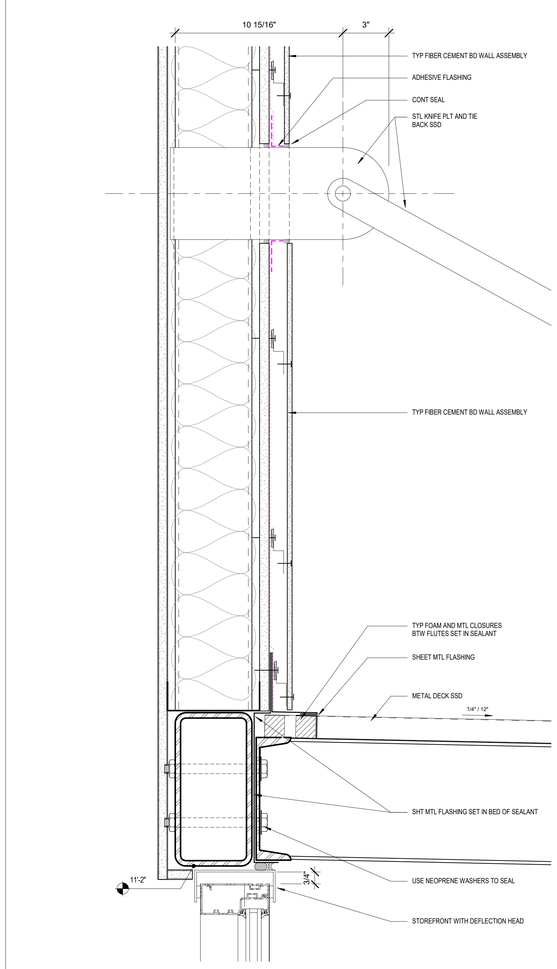
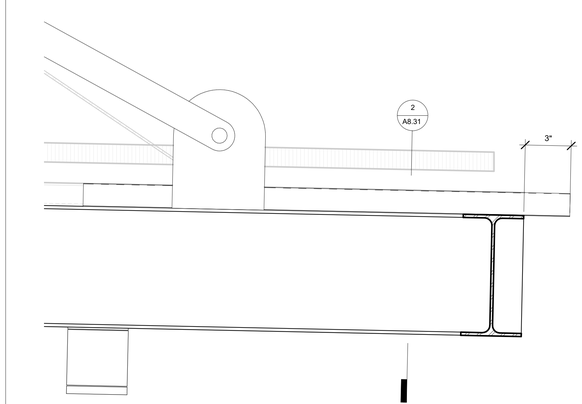


9 A8.31 CANOPY DETAIL AT PARKING AREA 3" = 1'-0"



5 A8.31 CANOPY DETAIL AT MAIN ENTRY 3" = 1'-0"

2 A8.31 CANOPY DETAIL AT EDGE 3" = 1'-0"



1 A8.31 CANOPY DETAIL AT EAVE TYPICAL 3" = 1'-0"

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REGISTERED ARCHITECT C-31915 RENEWAL DATE STATE OF CALIFORNIA

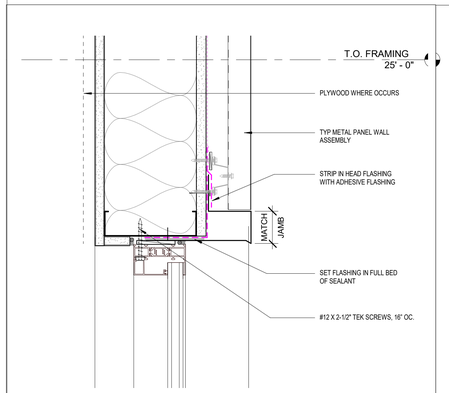
CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: DECEMBER 17, 2024

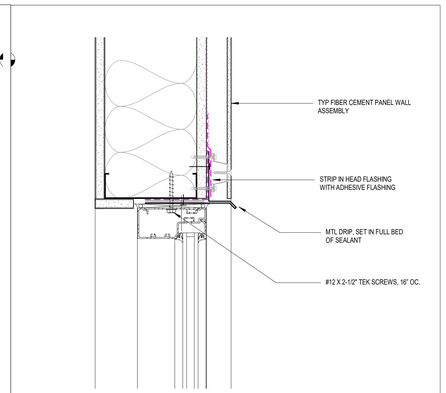
EXTERIOR DETAILS - CANOPIES

A8.31

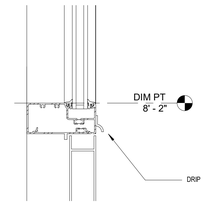
* SEE A8.01 FOR TYPICAL WALL ASSEMBLY CONSTRUCTION



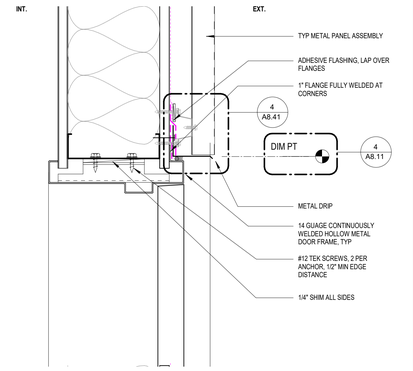
19 A8.41 WINDOW - HEAD AT METAL PANEL 3" = 1'-0"



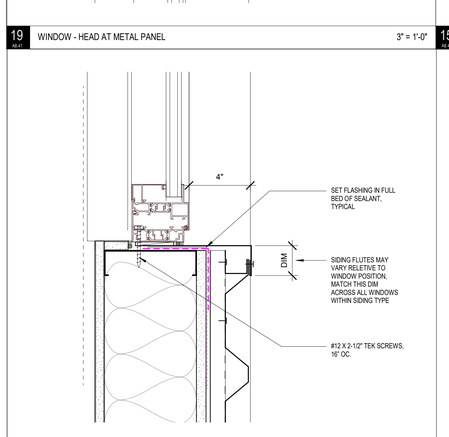
15 A8.41 STOREFRONT WINDOW - HEAD AT FC PANEL 3" = 1'-0"



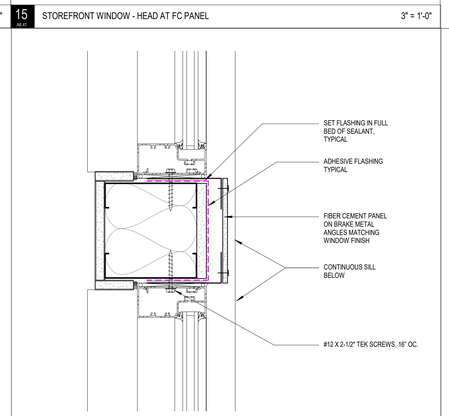
7 A8.41 STOREFRONT DOOR - DOOR HEAD 3" = 1'-0"



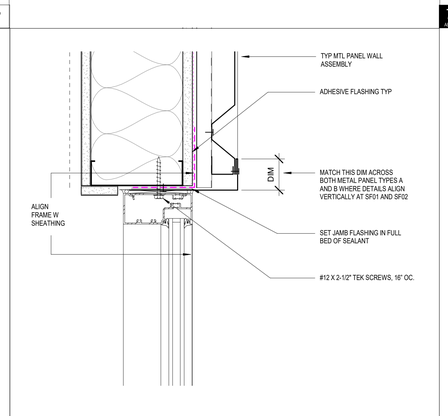
3 A8.41 HM DOOR - HEAD AT METAL PANEL 3" = 1'-0"



18 A8.41 WINDOW - JAMB AT METAL PANEL 3" = 1'-0"



14 A8.41 STOREFRONT WINDOW - INTERMEDIATE JAMB AT FC PANEL 3" = 1'-0"



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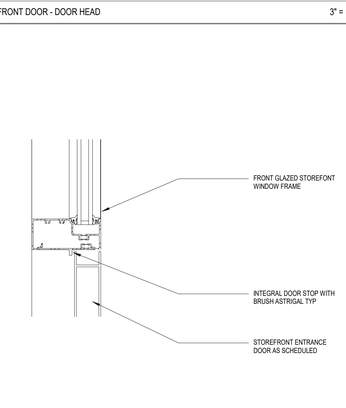
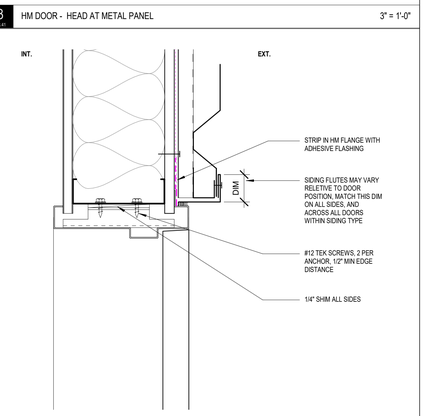
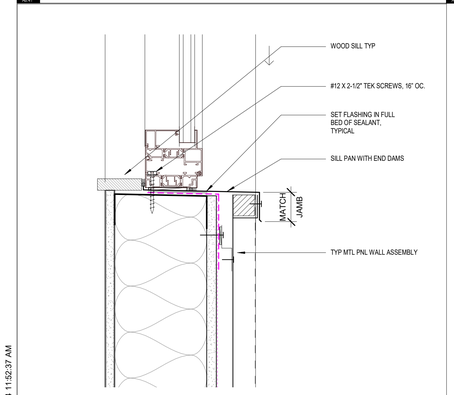


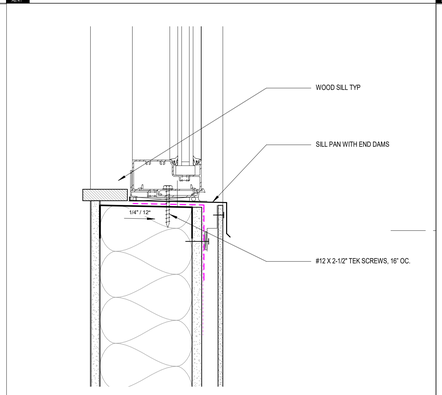
6 A8.41 STOREFRONT DOOR - JAMB 3" = 1'-0"



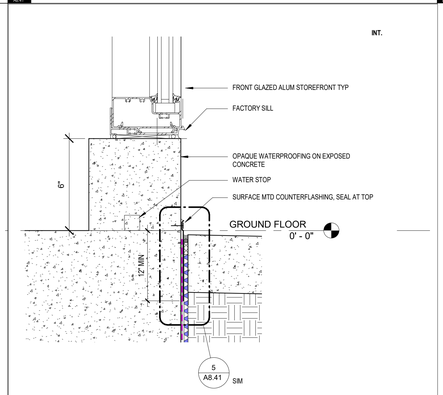
2 A8.41 HM DOOR - JAMB AT METAL PANEL 3" = 1'-0"



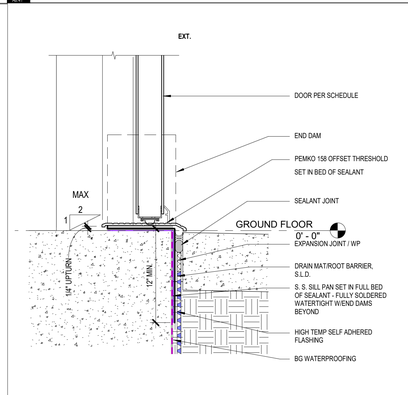
17 A8.41 WINDOW - SILL AT METAL PANEL 3" = 1'-0"



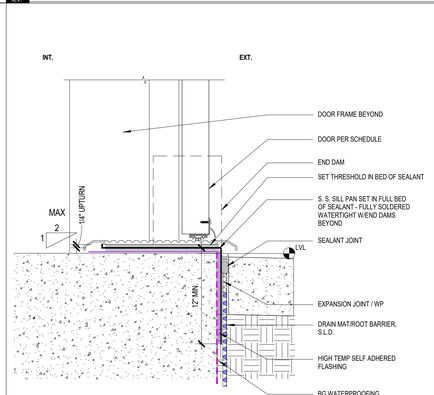
13 A8.41 STOREFRONT WINDOW - SILL AT FC PANEL 3" = 1'-0"



9 A8.41 STOREFRONT WINDOW - SILL 3" = 1'-0"



5 A8.41 STOREFRONT - DOOR SILL 3" = 1'-0"



1 A8.41 HM DOOR - SILL TYP 3" = 1'-0"

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CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
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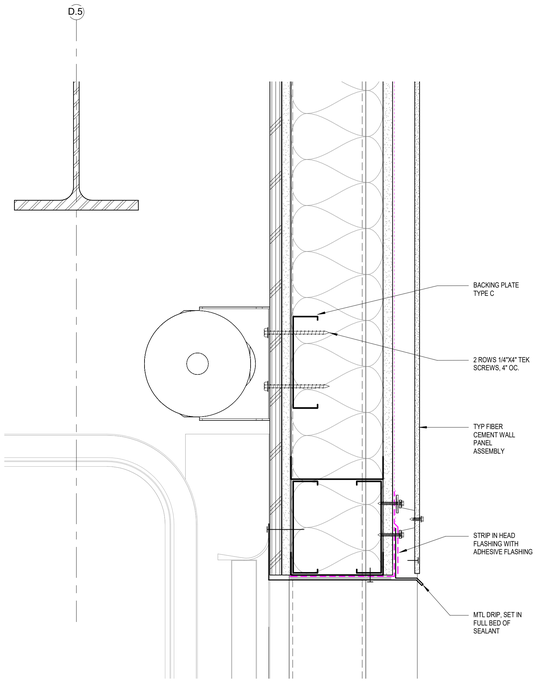
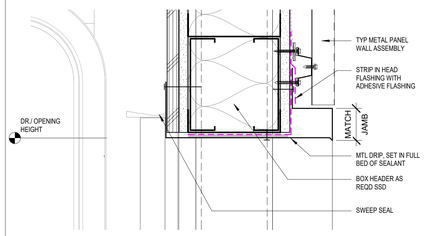
EXTERIOR DETAILS - OPENINGS

A8.41



7 A8.42 SECTIONAL DOOR AT FC PANEL - HEAD 3" = 1'-0"



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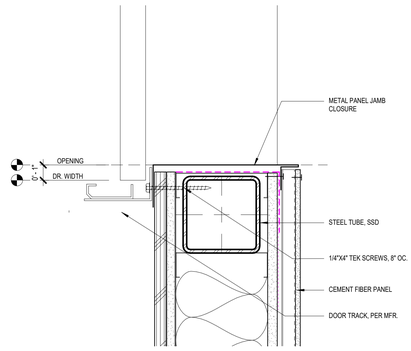
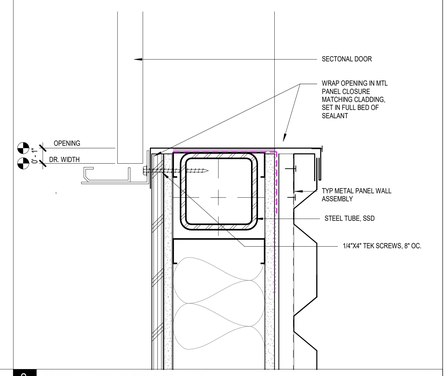
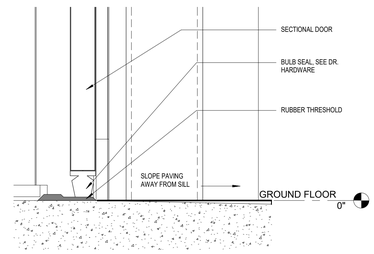


6 A8.42 SECTIONAL DOOR AT FC PANEL - JAMB 3" = 1'-0"



2 A8.42 SECTIONAL DOOR AT METAL PANEL - JAMB 3" = 1'-0"



1 A8.42 SECTIONAL DOOR - SILL 3" = 1'-0"

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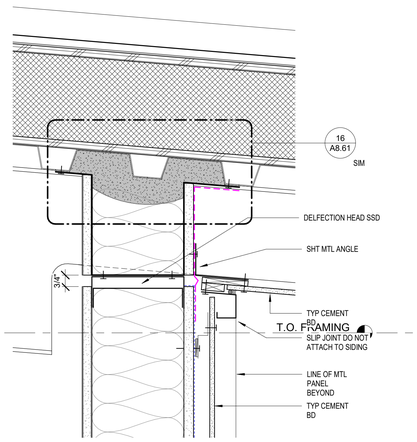
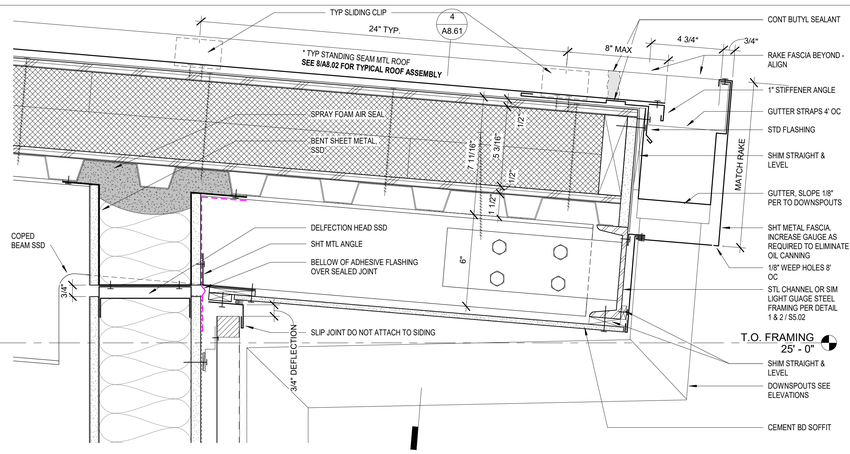
EXTERIOR DETAILS - OPENINGS

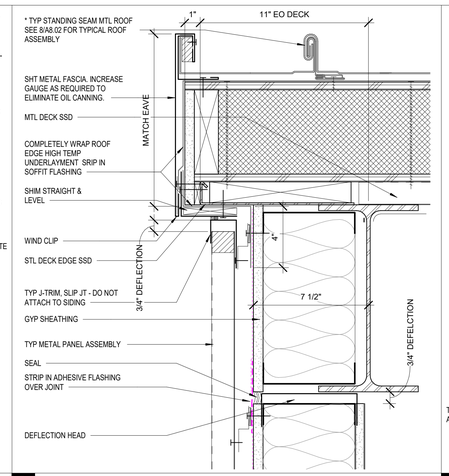
A8.42



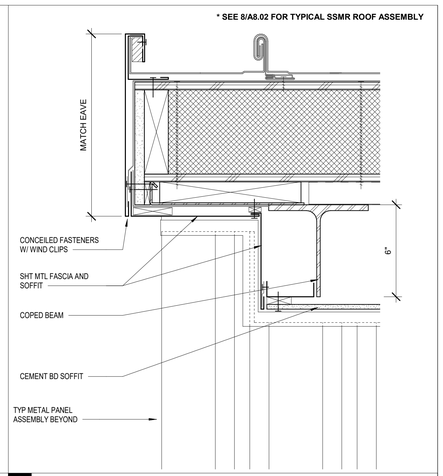
20 A8.61 ROOF DETAIL - EAVE AT FIBER CEMENT BOARD 3" = 1'-0"



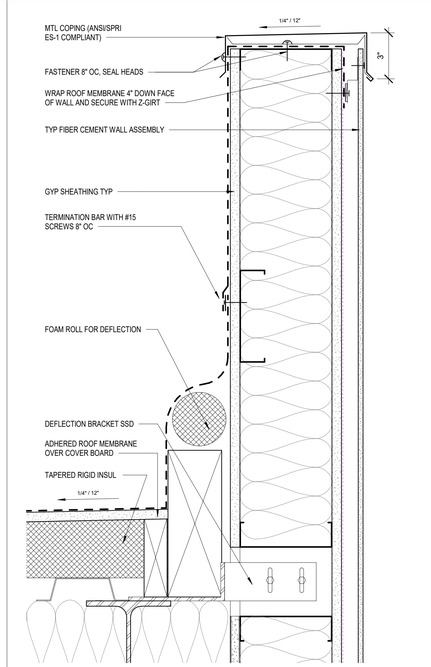
16 A8.61 ROOF DETAIL - EAVE AT METAL PANEL 3" = 1'-0"



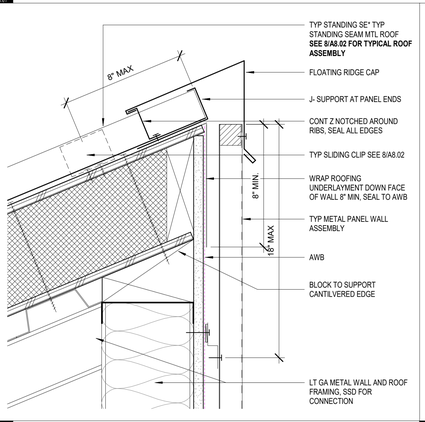
8 A8.61 ROOF DETAIL - RAKE AT METAL PANEL 3" = 1'-0"



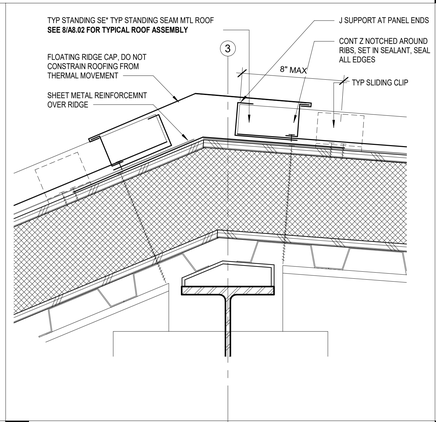
4 A8.61 ROOF DETAIL - RAKE AT EAVE 3" = 1'-0"



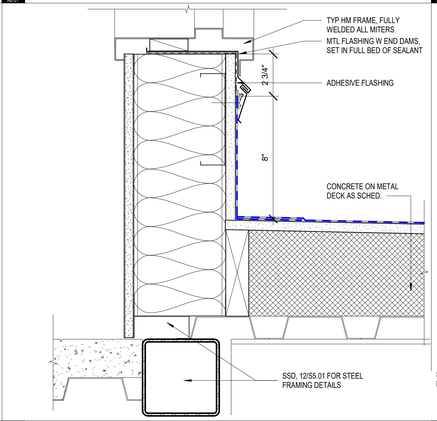
14 A8.61 ROOF DETAIL - TYP PARAPET 3" = 1'-0"



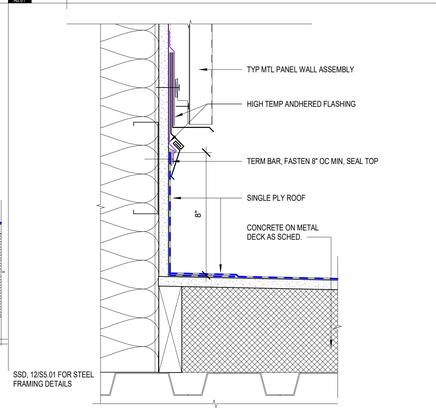
11 A8.61 ROOF DETAIL - RIDGE AT MECHANICAL AREA 3" = 1'-0"



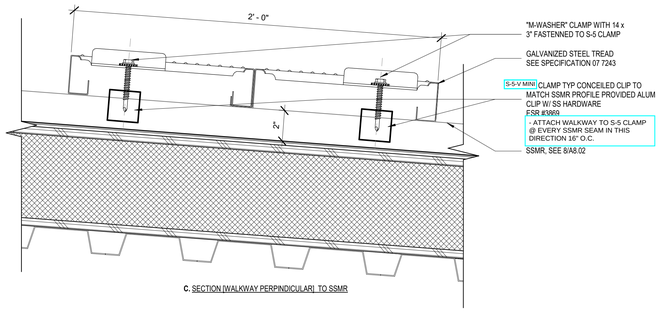
19 A8.61 ROOF DETAIL - MAIN RIDGE 3" = 1'-0"



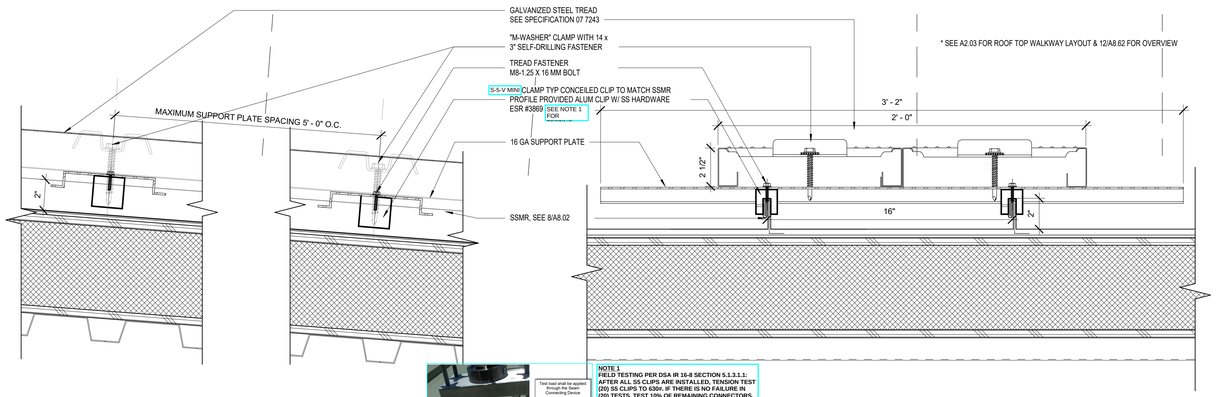
7 A8.61 ROOF DETAIL - DOOR THRESHOLD 3" = 1'-0"



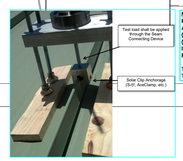
3 A8.61 ROOF DETAIL - MEMBRANE UPTURN 3" = 1'-0"



C. SECTION [WALKWAY PERPINDICULAR] TO SSMR



B. SECTION PARRELLEL [WALKWAY PARRELLEL] TO SSMR



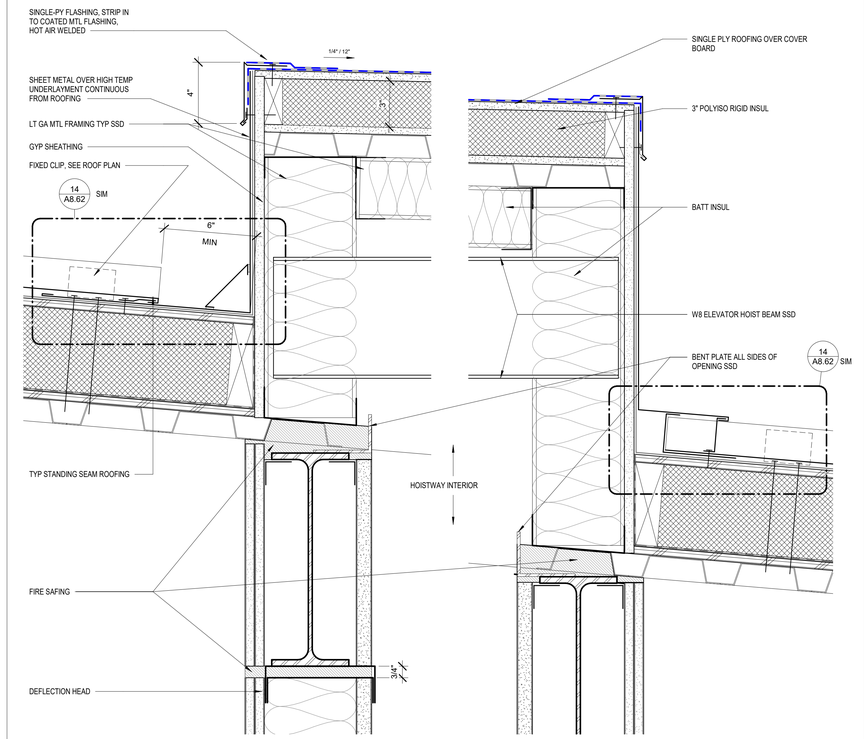
NOTE 1
FIELD TESTING PER DSA IR 16-8 SECTION 5.1.3.1.1: AFTER ALL S5 CLIPS ARE INSTALLED, TENSION TEST (20) S5 CLIPS TO 630#. IF THERE IS NO FAILURE IN (20) TESTS, TEST 10% OF REMAINING CONNECTORS. IF FAILURE OCCURS IN ONE OF THE (20) TESTS, ALL REMAINING CLIPS SHALL BE TESTED.

TEST SETUP SHALL BE PER DSA IR 16-8; SEE PHOTO TO LEFT. PROVIDE TEST DATA TO AOR AND SEOR.

A. SECTION PERPINDICULAR [WALKWAY PARRELLEL] TO SSMR

* TYP STANDING SEAM MTL ROOF
SEE 8/A8.02 FOR TYPICAL ROOF ASSEMBLY

13 A8.61 ROOF DETAIL - ACCESS WALKWAY 3" = 1'-0"



5 A8.61 ROOF DETAIL - ELEVATOR PENTHOUSE 3" = 1'-0"

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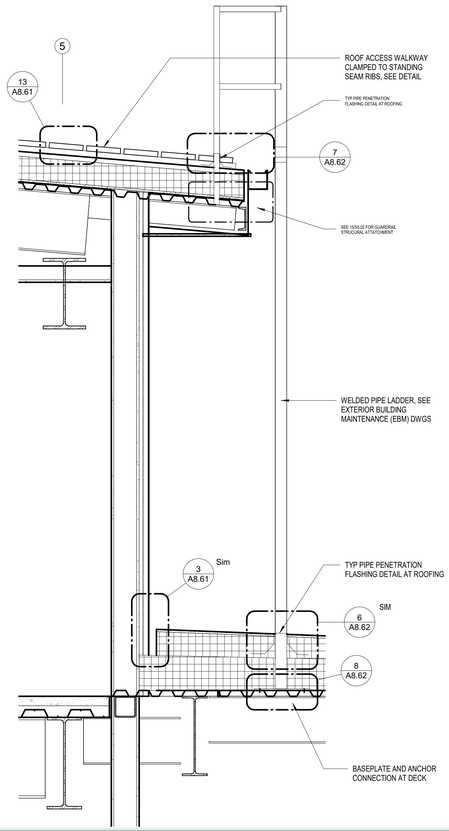
25555 HESPERIAN BLVD, HAYWARD, CA 94545

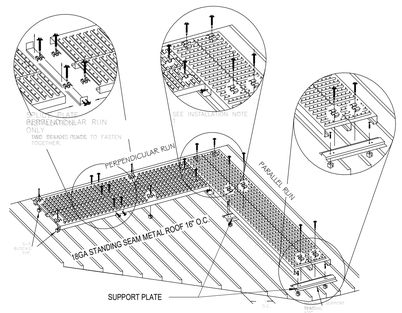
project number: 20-296
date: DECEMBER 17, 2024

EXTERIOR DETAILS - ROOF

A8.61

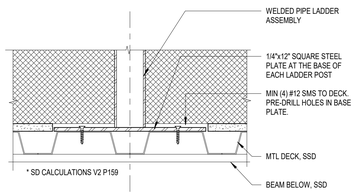


15 A8.62 ENLARGED SECTION OF ROOF ACCESSLADDER 3/4" = 1'-0"

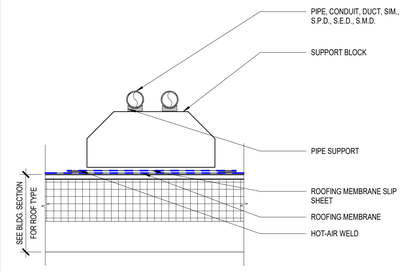


* SEE A2.03 FOR ROOF TOP WALKWAY LAYOUT & A8.61 FOR DETAILS

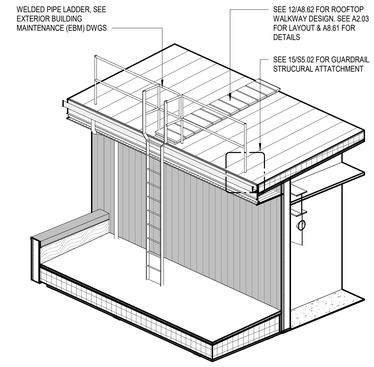
12 A8.62 ROOFTOP WALKWAY OVERVIEW 1/2" = 1'-0"



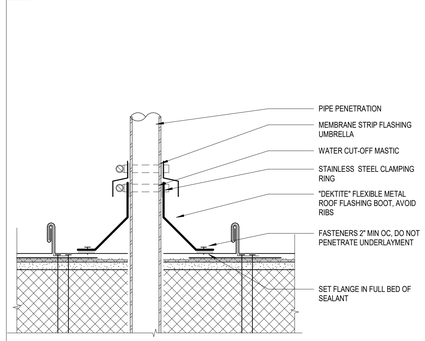
8 A8.62 SECTION DETAIL AT ROOF LADDER DECK ATTACHMENT 3" = 1'-0"



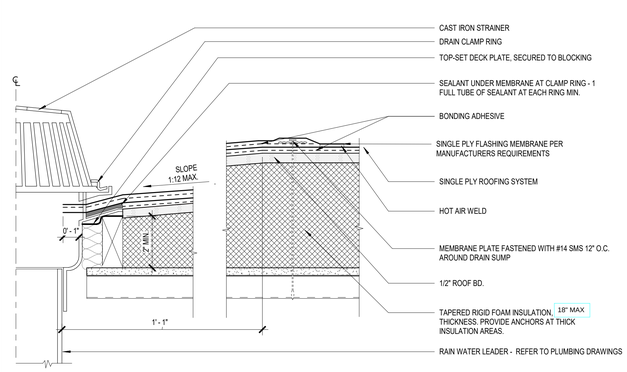
4 A8.62 TYP. PIPE SUPPORT AT ROOF 1 1/2" = 1'-0"



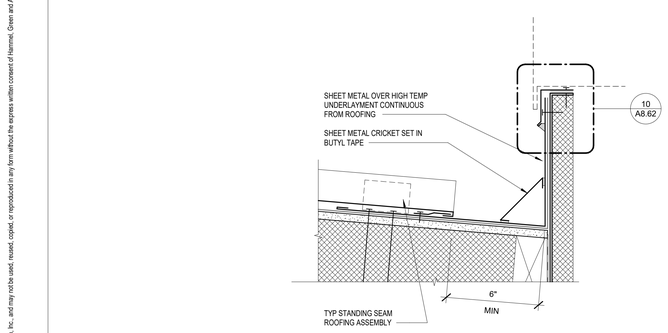
11 A8.62 AXON OF ROOF ACCESS LADDER



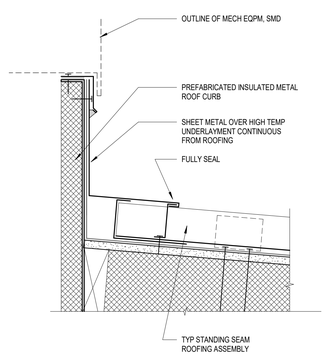
7 A8.62 TYPICAL PIPE PENETRATION FLASHING AT STANDING SEAM ROOF 3" = 1'-0"



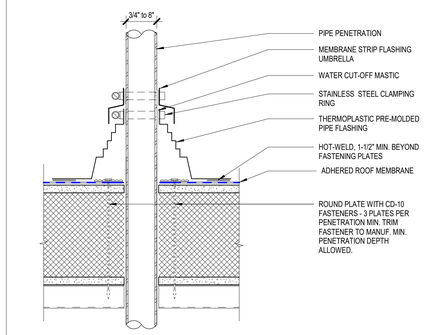
3 A8.62 SECTION DETAIL - TYP DRAIN AT SINGLE PLY ROOF ENLARGED 3" = 1'-0"



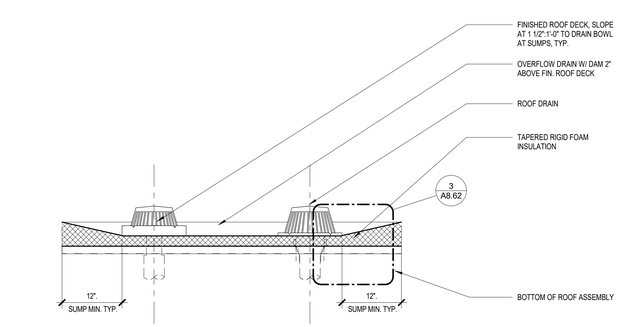
14 A8.62 TYPICAL ROOF CURB DETAIL - STANDING SEAM ROOF UPSLOPE 3" = 1'-0"



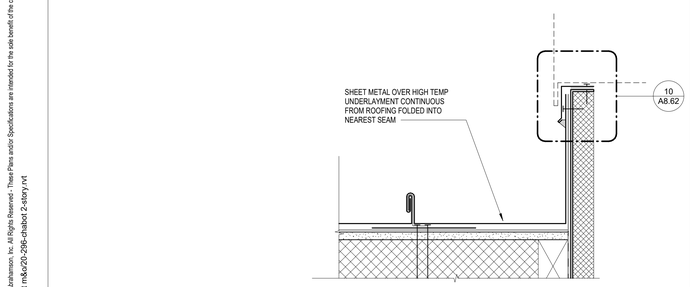
10 A8.62 TYPICAL ROOF CURB DETAIL - STANDING SEAM DOWNSLOPE 3" = 1'-0"



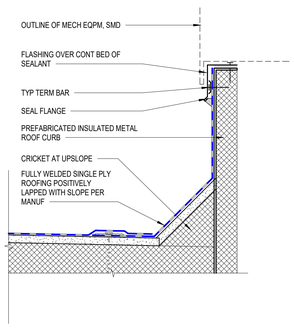
6 A8.62 TYPICAL PIPE PENETRATION FLASHING AT SINGLE PLY ROOF 3" = 1'-0"



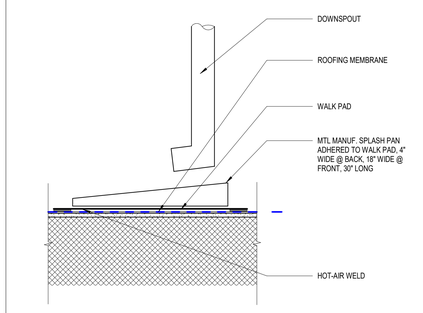
2 A8.62 SECTION DETAIL - TYP DRAIN AT SINGLE PLY ROOF 1" = 1'-0"



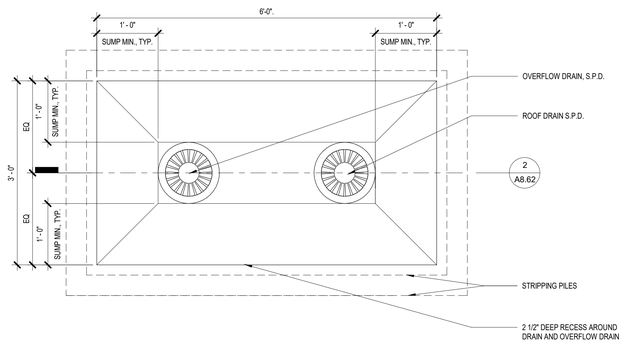
13 A8.62 TYPICAL ROOF CURB DETAIL - STANDING SEAM ROOF RAKE SLOPE 3" = 1'-0"



9 A8.62 TYPICAL ROOF CURB DETAIL - SINGLE PLY ROOF 3" = 1'-0"



5 A8.62 TYPICAL SPLASH PAN AT SINGLY PLY ROOF 1 1/2" = 1'-0"



1 A8.62 PLAN DETAIL - TYP DRAIN AT SINGLE PLY ROOF 1" = 1'-0"

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1/23/2025 7:59:16 AM

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DATE: 2/19/2025

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25555 HESPERIAN BLVD
HAYWARD, CA 94612

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2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

#	date	issue description

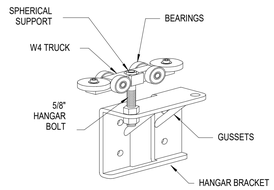
STATE OF CALIFORNIA
C-21415
RENEWAL DATE
OCCUPATIONAL SAFETY AND HEALTH

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

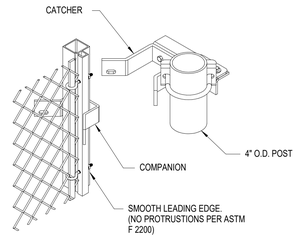
project number: 20-296
date: DECEMBER 17, 2024

EXTERIOR DETAILS - ROOF

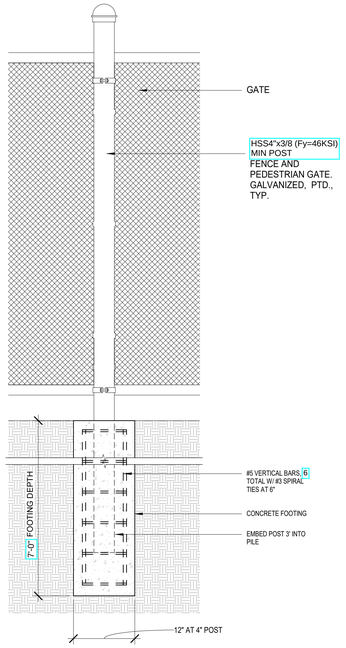
A8.62



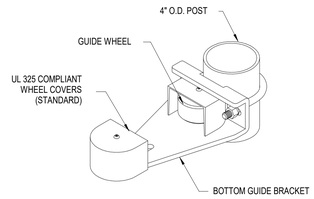
8 A8.71 ENTRY GATE - GATE HANGAR ASSEMBLY 1/4" = 1'-0"



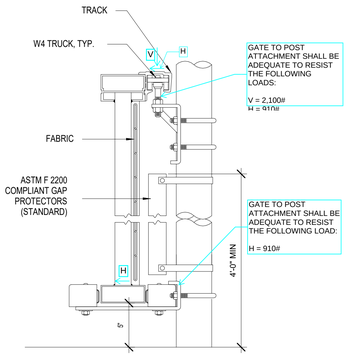
4 A8.71 ENTRY GATE - CATCH ASSEMBLY 1/4" = 1'-0"



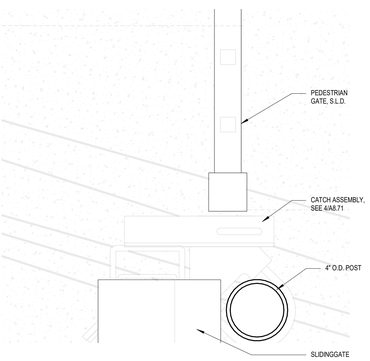
10 A8.71 ENTRY GATE POST @ FENCE 1" = 1'-0"



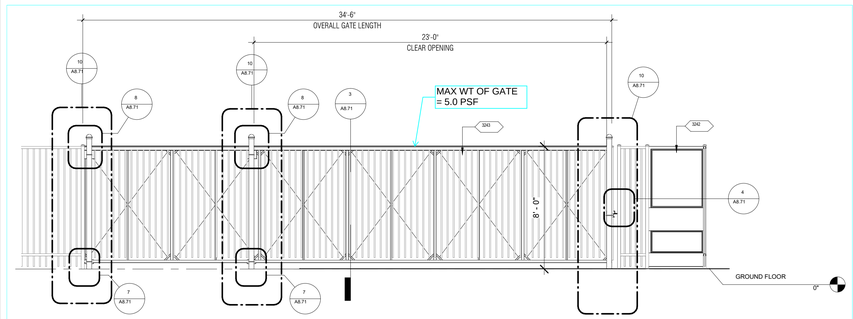
7 A8.71 ENTRY GATE - BOTTOM GUIDE 1/4" = 1'-0"



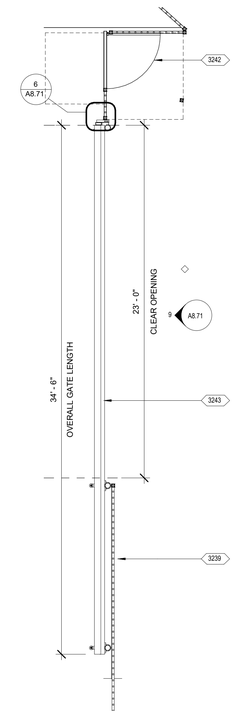
3 A8.71 ENTRY GATE - SECTION 1/4" = 1'-0"



6 A8.71 ENTRY GATE - PEDESTRIAN GATE JAMB 3" = 1'-0"



9 A8.71 ENLARGED ELEVATION - ENTRY GATE 1/4" = 1'-0"



3239	PERIMETER FENCE
3242	PEDESTRIAN GATE, S.L.D.
3243	MANUAL SLIDING GATE - TYMETAL MANUFACTURER - VERTICAL PICKETS TO MATCH PERIMETER FENCE

1 A8.71 ENLARGED FLOOR PLAN - ENTRY GATE 1/4" = 1'-0"

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SS ☑ FLS ☑ ACS ☑
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2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
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	2022.02.28	SCHEMATIC DESIGN

#	date	issue description

Expires: 12/31/25
RENEWAL DATE

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: DECEMBER 17, 2024

EXTERIOR DETAILS - SITE ENTRY GATE

A8.71

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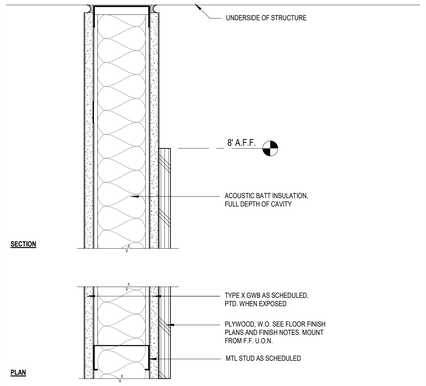
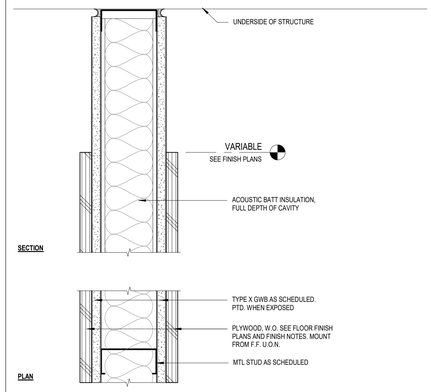


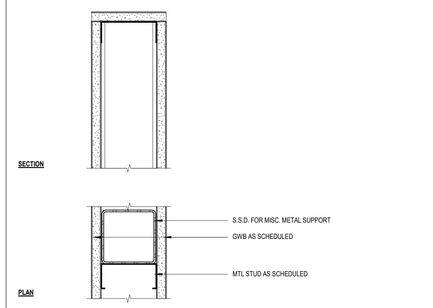
TAG	CROSS SECTION	HOUR RATING PARTITION TYPE REFERENCE STANDARD	ADDITIONAL INFORMATION
U6	5/8" 6" STUD 5/8" 3/4" — 7 1/4"	NON RATED	

15 A0.01 PTN TYPE U - METAL STUD W/ PLYWOOOD + GYP. BD. - FULL HEIGHT 3" = 1'-0"



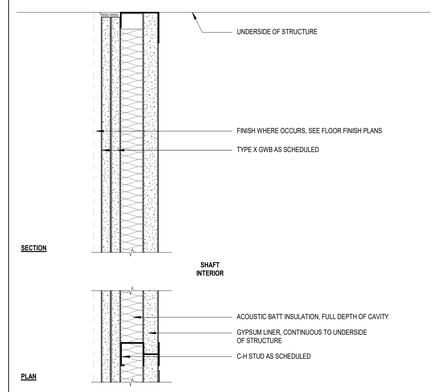
TAG	CROSS SECTION	HOUR RATING PARTITION TYPE REFERENCE STANDARD	ADDITIONAL INFORMATION
T6	3/4" 5/8" 6" STUD 5/8" 3/4" — 7 1/4"	NON RATED	

11 A0.01 PTN TYPE T - METAL STUD W/ PLYWOOOD ON BOOTH SIDES - FULL HEIGHT 3" = 1'-0"



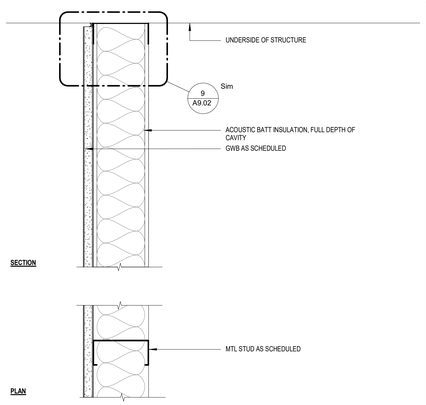
TAG	CROSS SECTION	HOUR RATING PARTITION TYPE REFERENCE STANDARD	ADDITIONAL INFORMATION
N4	5/8" 4" STUD 5/8" — 5 1/4"	NON RATED	

7 A0.01 PTN TYPE N - METAL STUD - PARTIAL HEIGHT 3" = 1'-0"



TAG	CROSS SECTION	HOUR RATING PARTITION TYPE REFERENCE STANDARD	ADDITIONAL INFORMATION
K4-2FB	(2) 5/8" 4" STUD 1" — 6 1/4"	2 HOUR FIRE BARRIER UL-U411,V438	
K6-2FB	3/4" (2) 5/8" 6" STUD 1" — 8 1/4"	2 HOUR FIRE BARRIER UL-U411,V438	

3 A0.01 PTN TYPE K - METAL STUD - SHAFT PTN 3" = 1'-0"

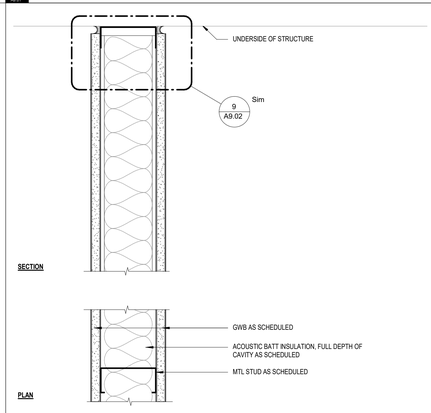


TAG	CROSS SECTION	HOUR RATING PARTITION TYPE REFERENCE STANDARD	ADDITIONAL INFORMATION
F4	5/8" 4" STUD — 4 5/8"	NON RATED	RECOMMENDED: 33 MILS. 20GA. MIN. STUDS. ALIGN W/ STRUCTURAL STUDS 16"O.C., ATTACH BACK TO STRUCTURAL STUDS W/ #10 SMS @ 16"O.C. ACOUSTIC 50 STC MIN.

17 A0.01 PTN TYPE F - METAL STUD - CEILING HEIGHT FURRING, STUD FULL HEIGHT 3" = 1'-0"

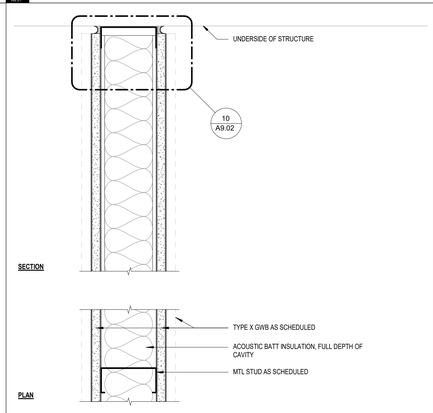
TAG	CROSS SECTION	HOUR RATING PARTITION TYPE REFERENCE STANDARD	ADDITIONAL INFORMATION
E4	5/8" 4" STUD — 4 5/8"	NON RATED	RECOMMENDED: 33 MILS. 20GA. MIN. STUDS. ALIGN W/ STRUCTURAL STUDS 16"O.C., ATTACH BACK TO STRUCTURAL STUDS W/ #10 SMS @ 16"O.C. ACOUSTIC 50 STC MIN.
E6	5/8" 6" STUD — 6 5/8"	NON RATED	

13 A0.01 PTN TYPE E - METAL STUD - FULL HEIGHT FURRING



TAG	CROSS SECTION	HOUR RATING PARTITION TYPE REFERENCE STANDARD	ADDITIONAL INFORMATION
A4-A	5/8" 4" STUD 5/8" — 5 1/4"	NON RATED	ACOUSTIC 50 STC MIN.
A6	5/8" 6" STUD 5/8" — 7 1/4"	NON RATED	
A6-A	5/8" 6" STUD 5/8" — 7 1/4"	NON RATED	ACOUSTIC 50 STC MIN.

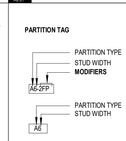
9 A0.01 PTN TYPE A - METAL STUD - FULL HEIGHT - NON RATED 3" = 1'-0"



TAG	CROSS SECTION	HOUR RATING PARTITION TYPE REFERENCE STANDARD	ADDITIONAL INFORMATION
A4-1FB	5/8" 4" STUD 5/8" — 5 1/4"	1 HOUR FIRE BARRIER UL-U419	
A6-2FB	3/4" (2) 5/8" 6" STUD (2) 5/8" — 8 1/2"	2 HOUR FIRE BARRIER UL-U419	

5 A0.01 PTN TYPE A - METAL STUD - FULL HEIGHT - RATED 3" = 1'-0"

PARTITION TAG



MODIFIERS

1 - HOURLY RATING
2 - HOURLY RATING
3 - HOURLY RATING

SP - SMOKE PARTITIONS
SB - SMOKE BARRIER
FP - FIRE PARTITIONS
FB - FIRE BARRIER

SPECIAL

A - ACOUSTIC BATT INSULATION FULL DEPTH OF CAVITY
B - HIGH IMPACT GYP BOARD
C - STUD GAUGE FOR ACOUSTICAL PERFORMANCE
D - WALL FINISH REQUIRES L360 FRAMING

INTERIOR ASSEMBLIES LEGEND

1. SEE EDGE OF SLAB PLAN FOR LOCATION, WIDTH, AND DETAIL CALL OUT OF CONCRETE CURBS, CONCRETE WALLS, AND MASONRY WALLS. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. ALL INTERIOR PARTITIONS ARE TO BE FRAMED TO MEET L240 DEFLECTION U.O.N.
3. ALL FULL HEIGHT GWB SHALL EXTEND TO UNDERSIDE OF DECK ABOVE
4. PROVIDE TYPE 'X' TILE BACKING PANEL AT WET LOCATIONS, TRASH ROOMS, AND JANITOR CLOSETS. PROVIDE MOISTURE RESISTANT GYPSUM BOARD AT ALL OTHER TILE LOCATIONS.
5. SHOWER TILE BACKER MATERIAL SHALL BE NON-ASBESTOS FIBER-CEMENT BACKER BOARD PER CBC 2509.3 STANDARDS.
6. FOR BASE OF WALL DETAILS, SEE A9.12
7. GYPSUM WALL BOARD ARE NON-RATED UNLESS OTHERWISE NOTED IN PARTITION TYPE.

DETAIL PARTITION GENERAL NOTES

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	2022.02.28	SCHEMATIC DESIGN

#	date	issue description

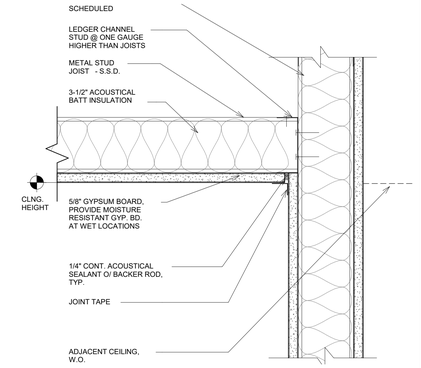
REGISTERED ARCHITECT C-31715 LICENSE RENEWAL DATE OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

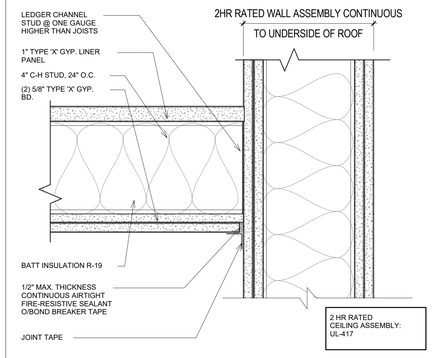
project number: 20-296
date: DECEMBER 17, 2024

INTERIOR PARTITION TYPES

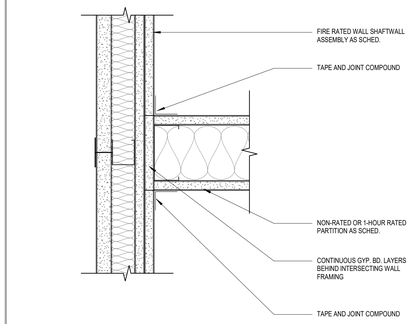
A9.01



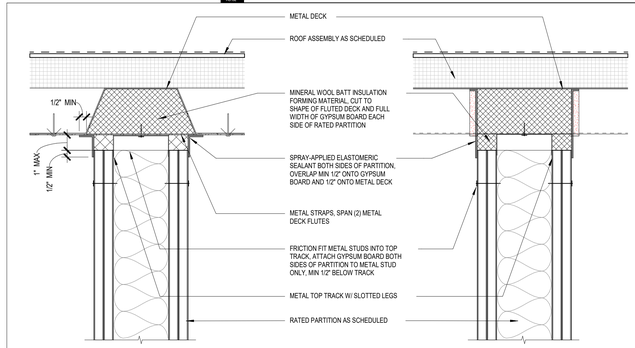
6 A4.02 GYP. BD. CEILING FRAMING, TYP. 3" = 1'-0"



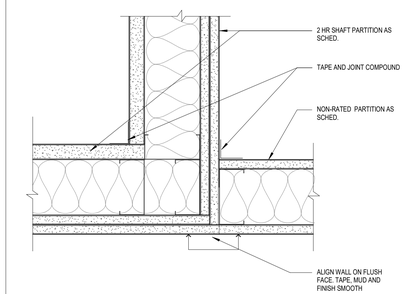
7 A4.02 CEILING FRAMING @ 2HR RATED ROOMS 3" = 1'-0"



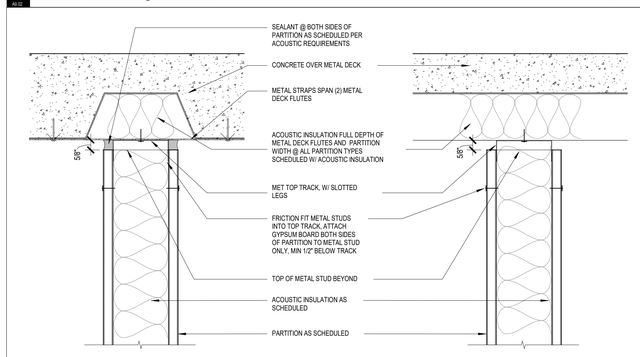
3 A4.02 2HR RATED SHAFTWALL @ NON-RATED OR RATED PARTITION 3" = 1'-0"



10 A4.02 HEAD OF RATED PARTITION @ NON-RATED ROOF 3" = 1'-0"



2 A4.02 2 HOUR PARTITION CORNER INTERSECTION 3" = 1'-0"



9 A4.02 HEAD OF NON-RATED PARTITION @ CONCRETE FILLED METAL DECK 3" = 1'-0"

SHEET NOTES

1. ALL FIRE-RATED HEAD OF WALL CONDITIONS SHALL CONFORM TO CYCLICAL HEAD OF WALL TESTS: UL 2079 & ASTM E 1966.
2. FIRE-RATED GYPSUM BOARD/STUD WALL ASSEMBLIES SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U400, V400 OR W400 SERIES WALL AND PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY.
3. FIRE-RATED ROOF ASSEMBLIES SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL P700, P800 OR P900 SERIES ROOF-CEILING DESIGN IN THE UL FIRE RESISTANCE DIRECTORY.
4. THE FOLLOWING ITEMS SHALL BEAR THE UL CLASSIFICATION MARK:
   A. CONCRETE MASONRY UNITS
   B. LIGHT GAUGE FRAMING
   C. GYPSUM BOARD
   D. SPRAY-APPLIED FIRE RESISTIVE MATERIAL
   E. MINERAL WOOL BATT INSULATION FORMING MATERIAL
   F. SPRAY-APPLIED SEALANT
   G. ROOF INSULATION
   H. ROOF COVERINGS

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REVIEWED FOR
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DATE: 2/19/2025

CHABOT COLLEGE

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25555 HESPERIAN BLVD
HAYWARD, CA 94612

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510.516.0167
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2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

	date	issue description
2		

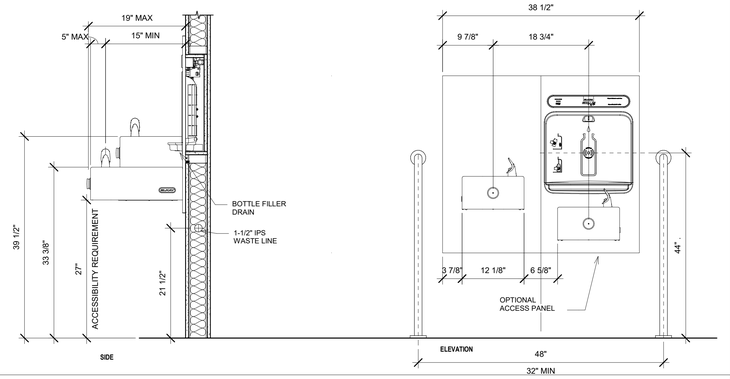
REGISTERED ARCHITECT
Corey Pink
LICENSE RENEWAL DATE
OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

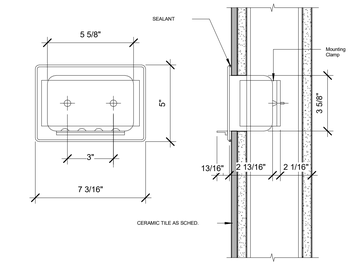
project number: 20-296
date: DECEMBER 17, 2024

INTERIOR PARTITION DETAILS

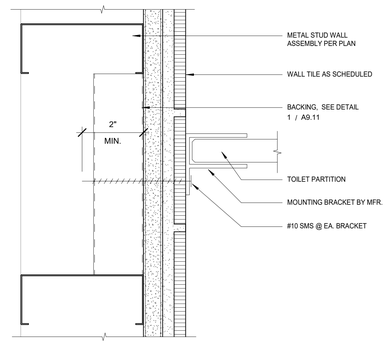
A9.02



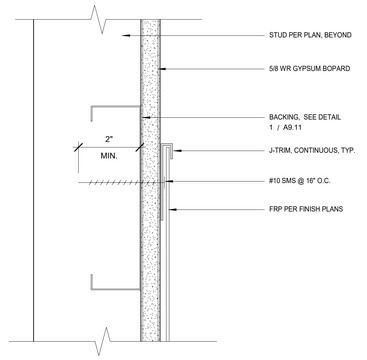
13 A9.11 WATER FILLER DETAIL 1" = 1'-0"



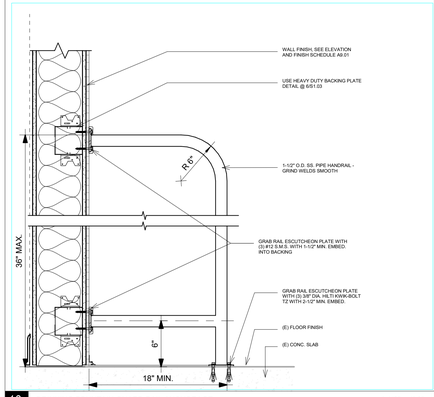
9 A9.11 SOAP DISH DETAIL 3" = 1'-0"



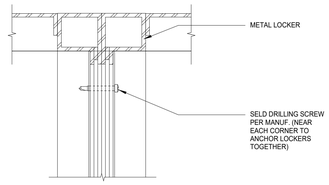
5 A9.11 TOILET PARTITION ANCHORAGE @ WALL 6" = 1'-0"



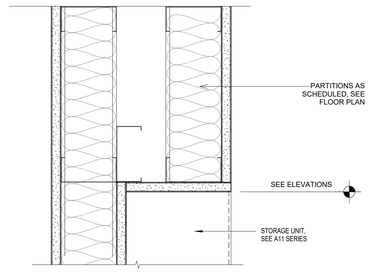
3 A9.11 FRP ATTACHMENT DETAIL - TOP 6" = 1'-0"



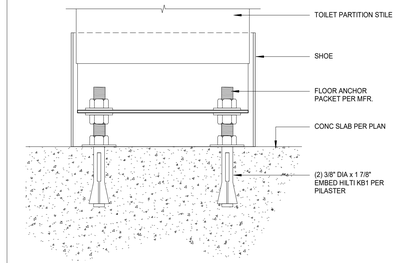
16 A9.11 DRINKING FOUNTAIN GUARD RAIL ANCHORAGE 1 1/2" = 1'-0"



12 A9.11 LOCKER UNIT-TO-UNIT ATTACHMENT 6" = 1'-0"



8 A9.11 SECTION - AT NICHE 3" = 1'-0"



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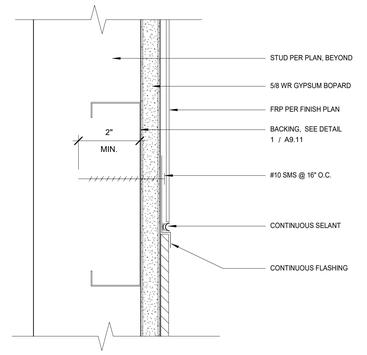

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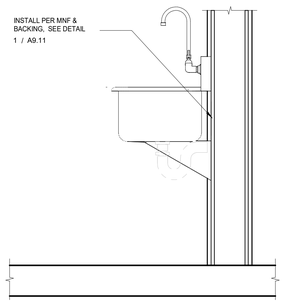
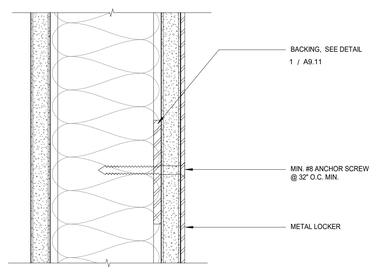
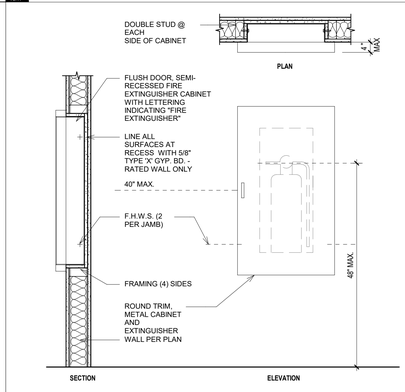


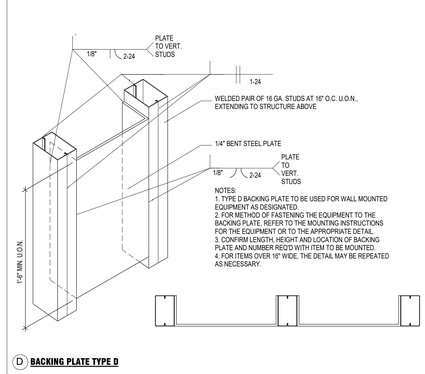
15 A9.11 SERVICE / UTILITY SINK WALL MOUNT DETAIL 1" = 1'-0"



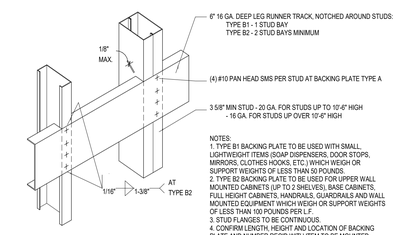
11 A9.11 LOCKER - WALL ATTACHMENT 6" = 1'-0"



7 A9.11 TYP. SEMI RECESSED FIRE EXTINGUISHER CABINET 1" = 1'-0"



D BACKING PLATE TYPE D



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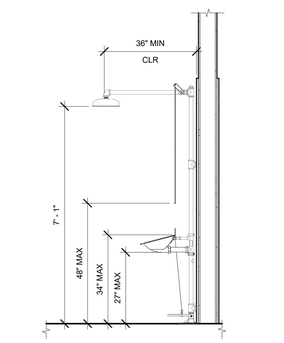
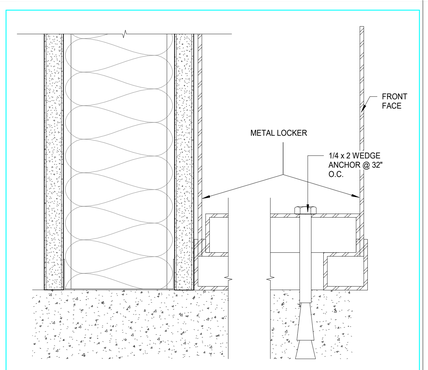
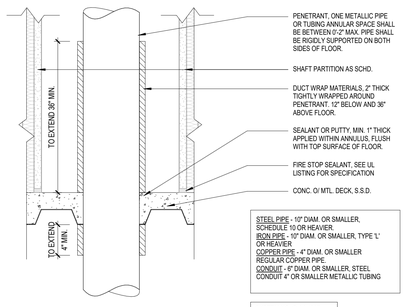


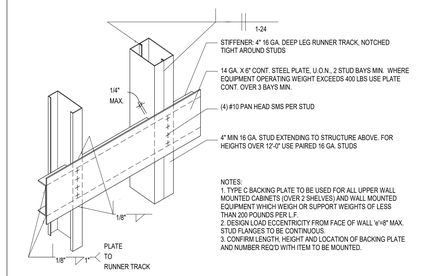
14 A9.11 EMERGENCY SHOWER 1/2" = 1'-0"



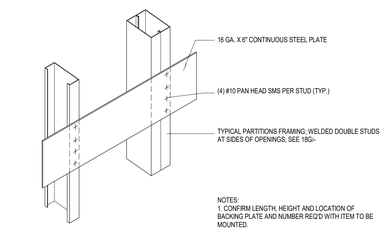
10 A9.11 LOCKER - FLOOR ATTACHMENT 6" = 1'-0"



6 A9.11 TYP. EXPOSED PIPE PENETRATION @ FLOOR 1 1/2" = 1'-0"



C BACKING PLATE TYPE C



A BACKING PLATE TYPE A

1 A9.11 METAL STUD BACKING DETAILS 1 1/2" = 1'-0"

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2	2024.12.17	DSA PC2
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C-31415
REGISTERED ARCHITECT
STATE OF CALIFORNIA
RENEWAL DATE

CHABOT M+O
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project number: 20-296
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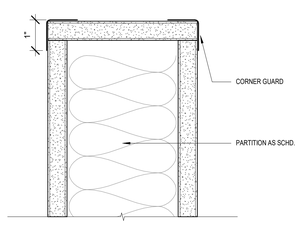
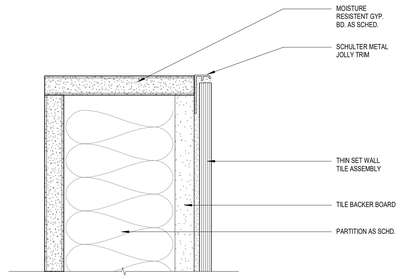
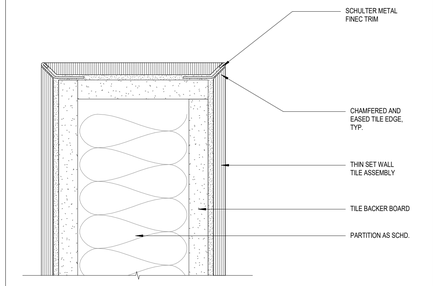
A9.11



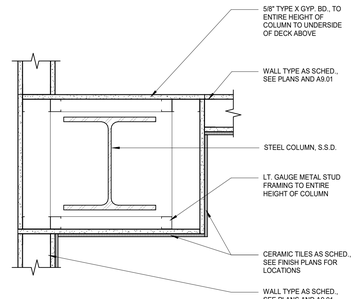
12 A9.12 CORNER GUARD SECTION DETAIL 6" = 1'-0"



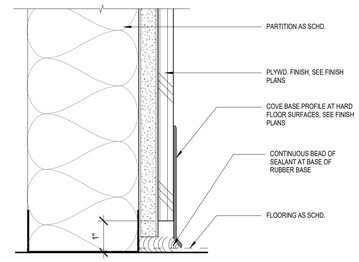
8 A9.12 THIN SET WALL TILE OUTSIDE CORNER - PLAN 6" = 1'-0"



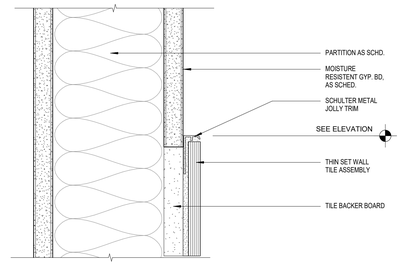
4 A9.12 THIN SET WALL TILE - PLAN 6" = 1'-0"



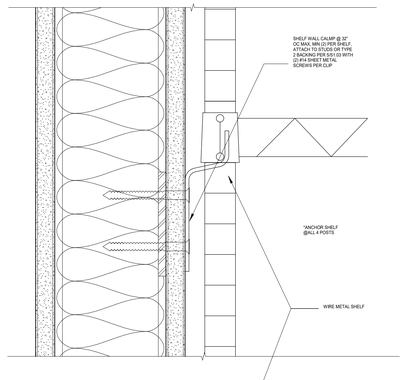
11 A9.12 COLUMN @ RESTROOMS 1 1/2" = 1'-0"



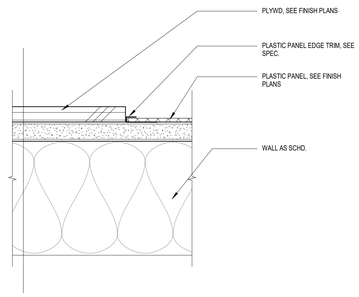
7 A9.12 RESILIENT BASE @ PLYWD. FINISH WALL 6" = 1'-0"



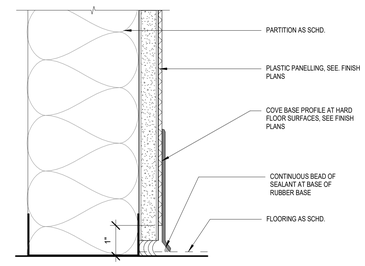
3 A9.12 THIN SET WALL TILE TRANSITION - SECTION 6" = 1'-0"



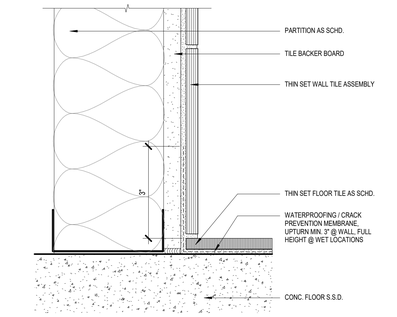
13 A9.12 WIRED SHELF - UNIT ATTACHMENT 6" = 1'-0"



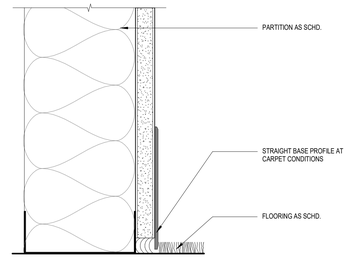
10 A9.12 PLYWD TO PLASTIC PANEL WALL TRANSITION 6" = 1'-0"



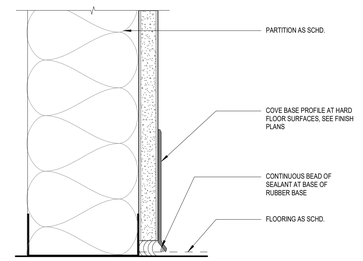
6 A9.12 RESILIENT BASE @ PLASTIC PANEL 6" = 1'-0"



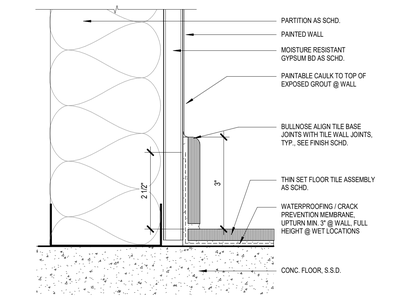
2 A9.12 THIN SET FLOOR TILE TO TILE WALL 6" = 1'-0"



9 A9.12 RESILIENT BASE @ CARPET 6" = 1'-0"



5 A9.12 RESILIENT BASE @ GYP. BD. WALL 6" = 1'-0"



1 A9.12 THIN SET FLOOR TILE TO TILE BASE 6" = 1'-0"

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	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

	date	issue description

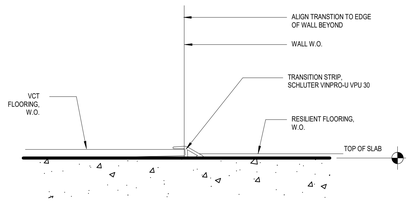
REGISTERED ARCHITECT
C-31415
RENEWAL DATE
OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

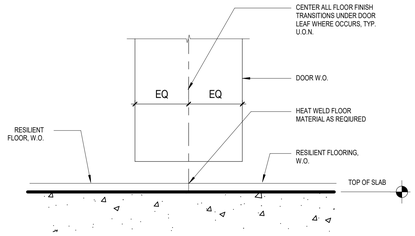
project number: 20-296
date: DECEMBER 17, 2024

INTERIOR DETAILS

A9.12



12 A9.31 FLOOR TRANSITION - VCT/RESILIENT 12" = 1'-0"



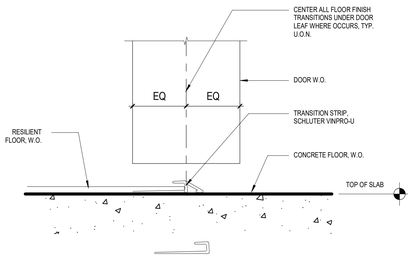
8 A9.31 FLOOR TRANSITION - RESILIENT HEAT WELD 12" = 1'-0"

A. FLOOR TRANSITION LEVEL CHANGES UP TO 1/4" MAY BE VERTICAL. CHANGES IN LEVEL BTW 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 2:1 WITH NO FLR MATERIAL TRANSITION GREATER THAN 1/2" ALLOWED. TYP FOR ALL FLOOR TRANSITIONS.

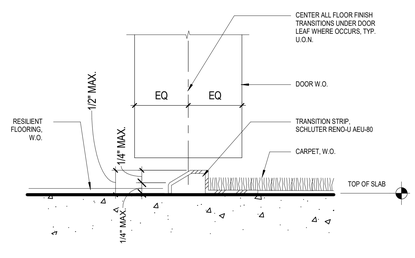
B. DOOR CLEARANCES SHALL BE PER DOOR MFR'S STANDARDS OR AS REQUIRED BY CODE

C. FIELD VERIFY & COORDINATE HEIGHTS OF MATERIALS PRIOR TO FABRICATION AND/OR INSTALLATION OF TRANSITION STRIPS.

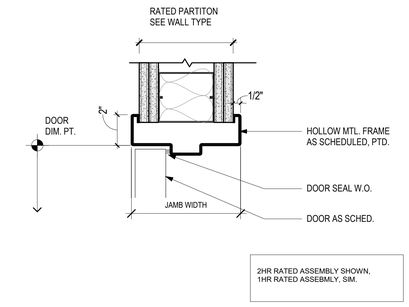
GENERAL NOTES - FLOOR TRANSITIONS 1/8" = 1'-0"



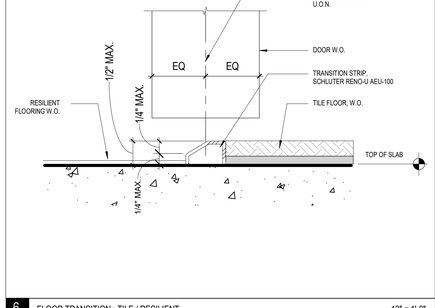
11 A9.31 FLOOR TRANSITION - CONCRETE/RESILIENT 12" = 1'-0"



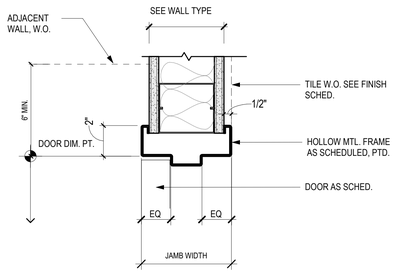
7 A9.31 FLOOR TRANSITION - CARPET/ RESILIENT 12" = 1'-0"



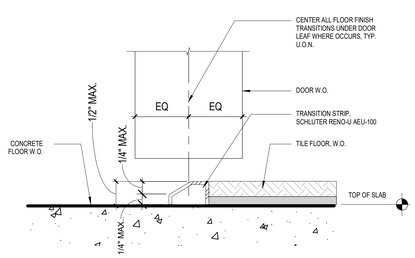
3 A9.31 HOLLOW METAL DOOR HEAD (JAM SIM.) - RATED 3" = 1'-0"



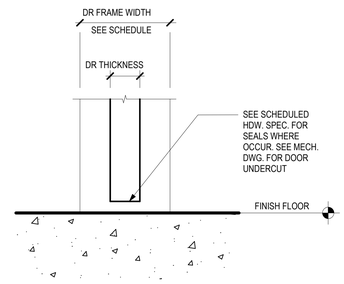
6 A9.31 FLOOR TRANSITION - TILE / RESILIENT 12" = 1'-0"



2 A9.31 HOLLOW METAL DOOR HEAD (JAMB SIM.) 3" = 1'-0"



5 A9.31 FLOOR TRANSITION - TILE / CONC. 12" = 1'-0"



1 A9.31 DOOR SILL CONDITION 3" = 1'-0"

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DATE: 2/19/2025

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2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

	date	issue description
2		

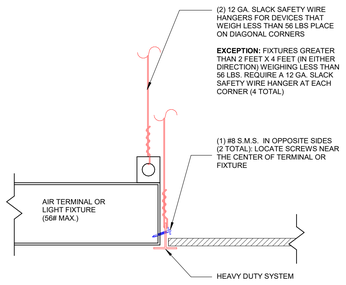
Exp: 12-31-25
RENEWAL DATE
REGISTERED ARCHITECT
OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: DECEMBER 17, 2024

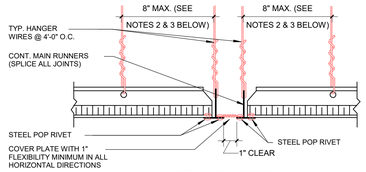
INTERIOR DOOR AND FRAME DETAILS

A9.31

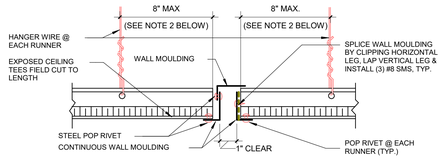


DSA: IR 25-2

Detail Title :		Detail No.
LUMINAIRE / AIR TERMINAL SUPPORT		2.80



EXPANSION JOINT

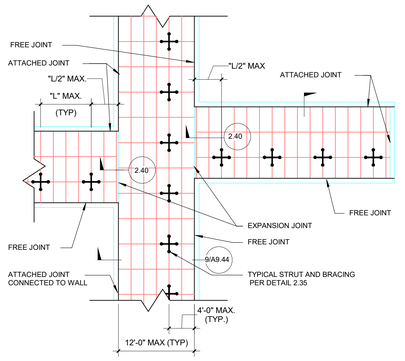


EXPANSION JOINT ALTERNATE

NOTES:
1. DETAIL APPLIES TO EXPANSION JOINTS AT THE INTERSECTION OF CORRIDORS AND AT THE JUNCTIONS OF CORRIDORS AT LOBBIES AND OTHER SIMILAR AREAS. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA.
2. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.

DSA: IR 25-2

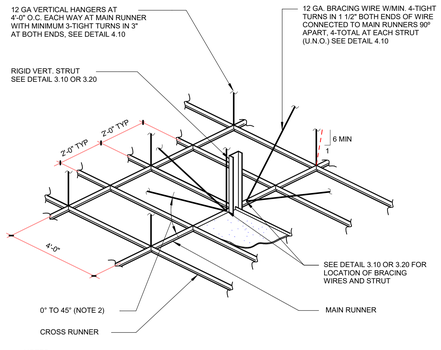
Detail Title :		Detail No.
EXPANSION JOINT (SCHOOL BUILDING)		2.40



NOTES:
1. "L" IS MAX. BRACE ASSEMBLY SPACING PER CEILING PLAN DETAIL. FOR EXAMPLE: WHERE 8' x 12' SPACING IS SPECIFIED, USE "L" = 8'.

DSA: IR 25-2

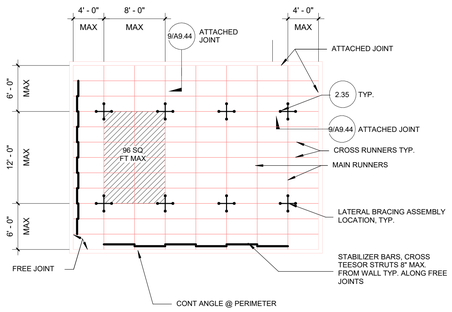
Detail Title :		Detail No.
CORRIDOR CEILING PLAN (SCHOOL BUILDING)		2.30



NOTES:
1. STRUTS SHALL NOT REPLACE HANGER WIRES. THE MINIMUM ACCEPTABLE ANGLE IS DETERMINED SUCH THAT THE WIRES DO NOT INTERFERE WITH THE RUNNERS, LIGHT FIXTURES, ETC. AND REMAIN STRAIGHT AND UNOBSTRUCTED.

DSA: IR 25-2

Detail Title :		Detail No.
SUSPENSION AND LATERAL BRACING ASSEMBLY		2.35



NOTE:
BRACING WIRES AND COMP. STRUT SHALL OCCUR AT EVERY 96 SQ. FT. MAX. IN ROOMS OVER 144 SQ. FT.

DSA: IR 25-2

Detail Title :		Detail No.
TYP. CEILING PLAN FOR 8'-0"x12'-0" BRACE ASSEMBLY SPACING		2.12

SUSPENDED LAY-IN PANEL CEILING (DSA 11R 25-2 2019 CBC)

1. CEILING SYSTEM GENERAL NOTES
1.01 Ceiling system components shall comply with ASTM C635 and Section 5.1 of ASTM E580.
1.02 The ceiling grid system must be rated heavy duty as defined by ASTM C635.
1.03 Ceiling systems. The following ceiling system(s) is/are part of the scope of this project:
Manufacturer: **USG**
Product Name: ***Armstrong Superfine XL #7501***
Evaluation Report Type and Number: ***ESR 1308***
Main Runner Part, Model, or Catalog Number: ***7501***
Cross Runner Part, Model, Catalog Number: ***XL7540, XL7530***
1.04 Seismic Vail Clip: **BERC-2**
Manufacturer's Model: ***SESIMC RX BERC CLIP***
1.05 Ceiling panels shall not support any luminaires, air terminals or devices.
1.06 For ceiling installations utilizing acoustical tile panels of mineral or glass fiber, it is not mandatory to provide ¼" clearance between the acoustical tile panels and the wall on the sides of the ceiling which are free to slip. For all other ceiling panel types, provide ¼" clearance between the ceiling panel and the wall on the sides of the ceiling free to slip. Clearance between ceiling grid runners/members and walls shall comply with the details on these drawings regardless of ceiling tile material.

2. MATERIALS
2.01 Ceiling wire shall be Class 1 zinc coated (galvanized) carbon steel conforming to ASTM A641. Wire shall be #12 gauge (0.106" diameter) with soft temper and minimum ultimate tensile strength = 70 ksi.
2.02 Galvanized sheet steel (including that used for metal stud and track compression struts/post) shall conform to ASTM A653, or other equivalent sheet steel listed in Section A3.1 of the North American Specification for the Design of Cold-Formed Steel Structural Members, (AISI S100). Material 43 mil (18 gauge) and lighter shall have minimum yield strength of 33 ksi. Material 54 mil (16 gauge) and heavier shall have a minimum yield strength of 50 ksi.
2.03 Electrical metallic tube (EMT) shall be ANSI C80.3/UL 797 carbon steel with G90 galvanizing. EMT shall have minimum yield strength (FY) of 30 ksi and minimum ultimate strength (FU) of 48 ksi.

3. ATTACHMENT OF HANGER AND BRACING WIRES
3.01 Separate all ceiling hanger and bracing wires at least 6 inches from all unbraced ducts, pipes, conduit, etc.
3.02 Hanger and bracing wires shall not attach to or bend around obstructions including but not limited to piping, ductwork, conduit and equipment.
3.03 Hanger wires that are more than one (horizontal) in six (vertical) out of plumb shall have counter-sloping wires.
3.04 Slack safety wires shall be considered hanger wires for installation and testing requirements.
3.05 Hanger and bracing wire anchorage to the structure shall be installed in such a manner that the direction of the anchorage aligns closely with the direction of the wire (e.g., bracing wire ceiling clips must be bent as shown in the details and rotated as required to align closely with the direction of the wire, screw eyes in wood must be installed so they align closely with the direction of the wire, etc.).

4. FASTENERS AND WELDING
4.01 Sheet metal screws shall comply with ASTM C1513 and ASME B18.6.3. Penetration of screws through joined material shall not be less than three exposed threads.
4.02 Expansion anchors shall be: **REFER TO 15/S1.01 TABLE.**
4.03 Power-Actuated Fasteners shall be: **REFER TO D/S0.01 TABLE NOTE #14.**
4.04 If not otherwise specified in the evaluation report, power-actuated fasteners installed in steel shall be installed so the entire pointed end of the fastener is driven through the steel member
4.05 Power-actuated fasteners in concrete or masonry are not permitted for bracing wires.
4.06 Concrete reinforcement and prestressing tendons shall be located by non-destructive means prior to installing post-installed anchors.
4.07 Welding shall be in accordance with AWS D1.3 using E60XX series electrodes.

5. TESTING
5.01 All field testing must be performed in the presence of the project inspector.
5.02 Post-installed anchors in concrete used to support hanger wires shall be tested at a frequency of 10 percent. Power-actuated fasteners in concrete shall be field tested for 200 pounds in tension. All other post-installed anchors in concrete shall be tested in accordance with CBC Section 1910A.5.
5.03 Post-installed anchors in concrete used to attach bracing wires shall be tested at a frequency of 50 percent in accordance with CBC Section 1910A.5.

6. LUMINAIRES
6.01 All luminaires shall be positively attached to the ceiling suspension systems by mechanical means to resist a horizontal force equal to the weight of the luminaire. A minimum of two screws or approved fasteners are required at each luminaire, per ASTM E580 Section 5.3.1.
6.02 Surface-mounted luminaires shall be attached to the main runner with at least two positive clamping devices. The clamping device shall completely surround the supporting ceiling runner and be made of steel with a minimum thickness of #14 gauge. Rotational spring catches do not comply. A #12 gauge slack safety wire shall be connected from each clamping device to the structure above. Provide additional supports when a luminaire is 8 feet or longer or exceeds 56 pounds. Maximum spacing between supports shall not exceed 8 feet.
6.03 Luminaires weighing less than or equal to 10 pounds may besupported directly on the ceiling runners, shall have a minimum of one #12 gauge slack safety wire connected from the fixture housing to the structure above.
6.04 Luminaires weighing greater than 10 pounds but less than or equal to 56 pounds may be supported directly on the ceiling runners, but they shall have a minimum of two #12 gauge slack safety wires connected from the fixture housing at diagonal corners to the structure above.
Exception: All luminaires greater than two by four feet weighing less than 56 pounds shall have a #12 gauge slack safety wire at each corner.
6.05 All luminaires weighing greater than 56 pounds shall be independently supported by not less than four taut #12 gauge hanger wires (one at each corner) attached from the fixture housing to the structure above or other approved hangers. The four taut #12 gauge wires or other approved hangers, including their attachment to the structure above, shall be capable of supporting four times the weight of the fixture.
7. SERVICES WITHIN THE CEILING
7.01 All flexible sprinkler hose fitting mounting brackets, ceiling-mounted air terminals or other services shall be positively attached to the ceiling suspension systems by mechanical means. Screws or approved fasteners are required. A minimum of two attachments are required at each component.
7.02 Ceiling-mounted air terminals or other services weighing less than or equal to 20 pounds shall have one #12 gauge slack safety wire attached from the terminal or service to the structure above.
7.03 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 20 pounds but less than or equal to 56 pounds shall have two #12 gauge slack safety wires (at diagonal corners) connected from the terminal or service to the structure above.
7.04 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 56 pounds shall be supported directly from the structure above by not less than four taut #12 gauge hanger wires attached from the terminal or service to the structure above or other approved hangers.
8. OTHER DEVICES WITHIN THE CEILING
8.01 All lightweight miscellaneous devices, such as strobe lights, occupancy sensors, speakers, exit signs, etc., shall be attached to the ceiling grid. In addition, devices weighing more than 10 pounds shall have a #12 gauge slack safety wire anchored to the structure above. Devices weighing more than 20 pounds shall be supported independently from the structure above.

DSA: IR 25-2

Detail Title :		Detail No.
SUSPENDED LAY-IN PANEL CEILING NOTES		1.00

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-121159 INC:
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DATE: 2/19/2025

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2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

#	date	issue description

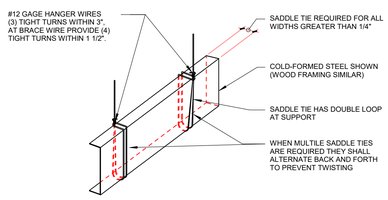
REGISTERED ARCHITECT C-31715 LICENSE RENEWAL DATE 08/31/2025 STATE OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: DECEMBER 17, 2024

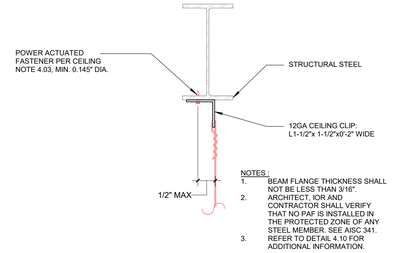
INTERIOR DETAILS - CEILINGS

A9.41



DSA: IR 25-2

Detail Title :		Detail No.
TYPICAL SADDLE TIE DETAIL		4.29



HANGER WIRE

DSA: IR 25-2

Detail Title :		Detail No.
HANGER WIRE CONNECTION TO STRUCTURAL STEEL		4.23

STRUCTURAL SYSTEM OF FLOOR/ ROOF ABOVE SUSPENDED CEILING	APPLICABLE HANGER WIRE DETAIL	APPLICABLE BRACE WIRE DETAIL
BARE METAL DECK	4.20	4.30
CONCRETE OVER METAL DECK	4.21	4.30 & 4.31
CONCRETE SLAB, BEAM, OR JOIST	4.22	4.32
STRUCTURAL STEEL	4.23	4.33
METAL STUD WALL	4.24	4.34
SAWN TIMBER	N/A	N/A
WOOD I-JOIST	N/A	N/A
WOOD CHORD TRUSS	N/A	N/A
OPEN WEB STEEL JOIST	N/A	N/A

DSA: IR 25-2

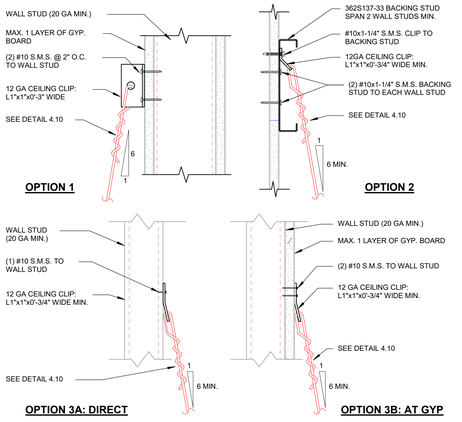
Detail Title :		Detail No.
HANGER AND BRACE WIRE CONNECTION TABLE		4.11

COMPRESSION STRUT EMT SECTION	MAXIMUM LENGTH
1/2" DIAMETER EMT (0.042" WALL THICKNESS)	3' - 11"
3/4" DIAMETER EMT (0.049" WALL THICKNESS)	6' - 4"
1" DIAMETER EMT (0.057" WALL THICKNESS)	9' - 9"
1 1/4" DIAMETER EMT (0.065" WALL THICKNESS)	12' - 9"
1 1/2" DIAMETER EMT (0.065" WALL THICKNESS)	14' - 9"
2" DIAMETER EMT (0.065" WALL THICKNESS)	18' - 10"

COMPRESSION STRUT CHANNEL SECTION	MAXIMUM LENGTH
250S125-33	5' - 10"
250S137-33	6' - 10"
362S137-33	8' - 0"
250S137-43	8' - 10"
400S137-43	10' - 10"

DSA: IR 25-2

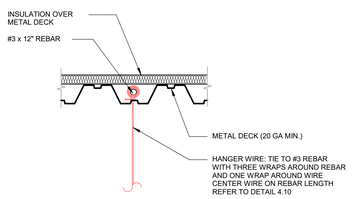
Detail Title :		Detail No.
COMPRESSION STRUT TABLE		3.21



NOTES:
1. THIS DETAIL APPLIES AT PERIMETER WIRE ATTACHEMENT OR WHERE OBSTRUCTION PREVENTS ATTACHMENT TO THE STRUCTURE ABOVE.

DSA: IR 25-2

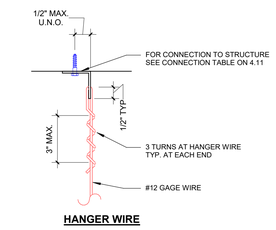
Detail Title :		Detail No.
HANGER WIRE CONNECTION TO METAL STUD WALL		4.24



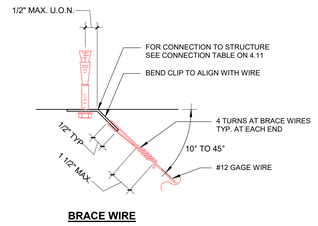
NOTES:
1. REFER TO DETAIL 4.10 FOR ADDITIONAL INFORMATION.

DSA: IR 25-2

Detail Title :		Detail No.
HANGER WIRE CONNECTION TO METAL DECK		4.20



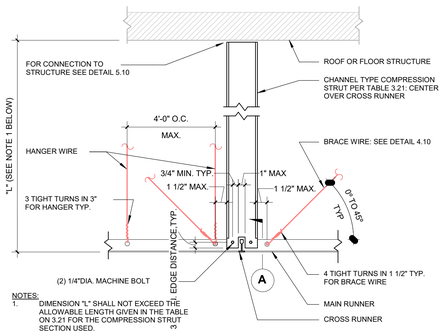
HANGER WIRE

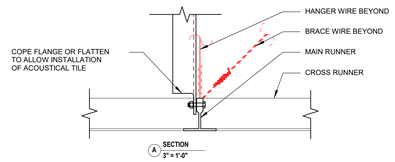


BRACE WIRE

DSA: IR 25-2

Detail Title :		Detail No.
HANGER AND BRACE WIRE CONNECTION - TYP. WIRE TURNS		4.10





DSA: IR 25-2

Detail Title :		Detail No.
COMPRESSION STRUT - CHANNEL TYPE		3.10

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HAYWARD, CA 94612

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	date	issue description
2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

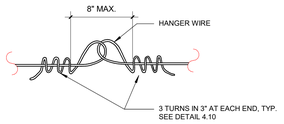
C-31415 REGISTERED ARCHITECT RENEWAL DATE OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

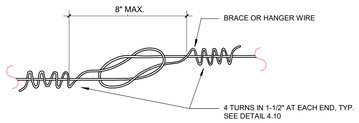
project number: 20-296
date: DECEMBER 17, 2024

INTERIOR DETAILS - CEILINGS

A9.42



HANGER WIRE ONLY

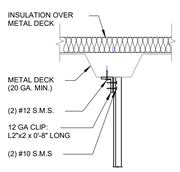


HANGER OR BRACE WIRE

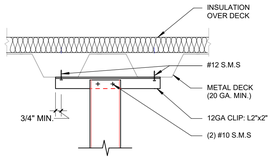
NOTES:
1. WIRE SPLICES ARE SHOWN LOOSELY TIED FOR ILLUSTRATIVE PURPOSES ONLY AND SHALL BE DRAWN TIGHT TO COMPLETE INSTALLATION WHEN CONSTRUCTED.
2. WIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT TO PREVENT ANY VERTICAL MOVEMENT OR ROTATION WITHIN THE LOOPS.
3. EACH HANGER AND BRACE WIRE SHALL BE SPLICED NO MORE THAN ONCE ALONG ITS LENGTH.

DSA: IR 25-2

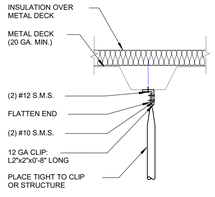
Detail Title :		Detail No.
CEILING WIRE SPLICES		6.10



CHANNEL STRUT: OPTION 1



CHANNEL STRUT: OPTION 2



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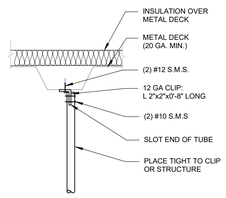
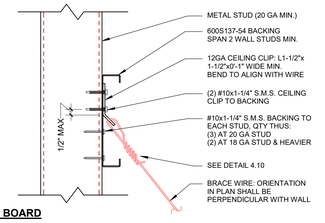


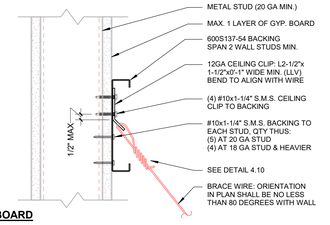
EMT STRUT: OPTION 2

DSA: IR 25-2

Detail Title :		Detail No.
STRUT CONNECTION TO BARE METAL DECK		5.20



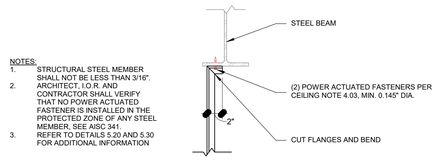
WALL WITHOUT GYP. BOARD



WALL WITH GYP. BOARD

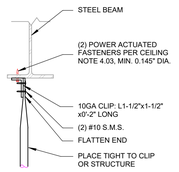
DSA: IR 25-2

Detail Title :		Detail No.
BRACE WIRE CONNECTION TO METAL STUD WALL		4.34



NOTES:
1. STRUCTURAL STEEL MEMBER SHALL NOT BE LESS THAN 3/16".
2. ARCHITECT, I.O.R. AND CONTRACTOR SHALL VERIFY THAT NO POWER ACTUATED FASTENER IS INSTALLED IN THE PROTECTED ZONE OF ANY STEEL MEMBER, SEE AISC 341.
3. REFER TO DETAILS 5.20 AND 5.30 FOR ADDITIONAL INFORMATION

CHANNEL STRUT



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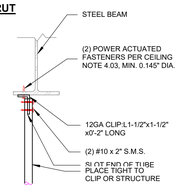


EMT STRUT: OPTION 2

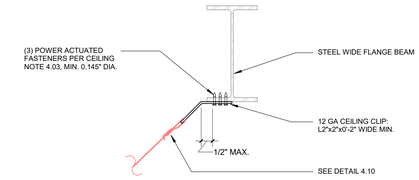
DSA: IR 25-2

Detail Title :		Detail No.
STRUT CONNECTION TO STRUCTURAL STEEL		5.40

STRUCTURAL SYSTEM OF FLOOR/ ROOF ABOVE SUSPENDED CEILING	APPLICABLE DETAIL
BARE METAL DECK	**5.20**
CONCRETE OVER METAL DECK	**5.21**
CONCRETE SLAB, BEAM, OR JOIST	**N/A**
STRUCTURAL STEEL	**5.40**
SAWN TIMBER WITH GYPSUM BOARD	**N/A**
SAWN TIMBER WITHOUT GYPSUM BOARD	**N/A**
WOOD I-JOIST	**N/A**

DSA: IR 25-2

Detail Title :		Detail No.
COMPRESSION STRUT CONNECTION TABLE		5.10



BRACING WIRE

NOTES:
1. BEAM FLANGE THICKNESS SHALL NOT BE LESS THAN 3/16".
2. ARCHITECT, IOR, AND CONTRACTOR SHALL VERIFY THAT NO POWER ACTUATED FASTENER IS INSTALLED IN THE PROTECTED ZONE OF ANY STEEL MEMBER, SEE AISC 341.
3. REFER TO DETAIL 4.10 FOR ADDITIONAL INFORMATION.

DSA: IR 25-2

Detail Title :		Detail No.
BRACE WIRE CONNECTION TO STRUCTURAL STEEL		4.33

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1 A9.43 CEILING DETAILS .

N.T.S.

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	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

C-31415
RENEWAL DATE

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project number: 20-296
date: DECEMBER 17, 2024

INTERIOR DETAILS - CEILINGS

A9.43

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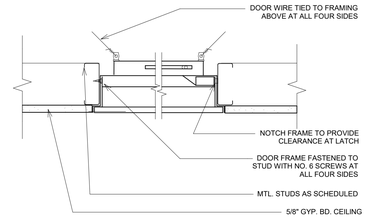
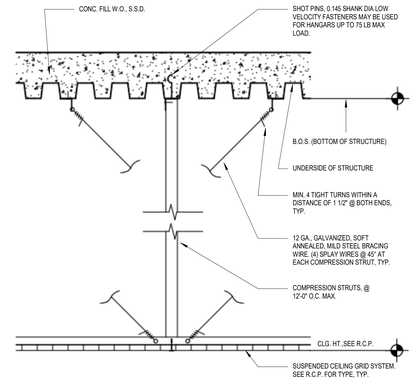
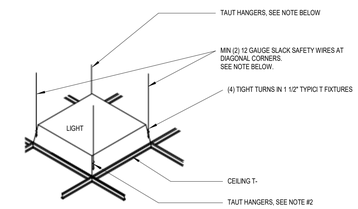


4 A2.44 CEILING ACCESS PANEL 3" = 1'-0"

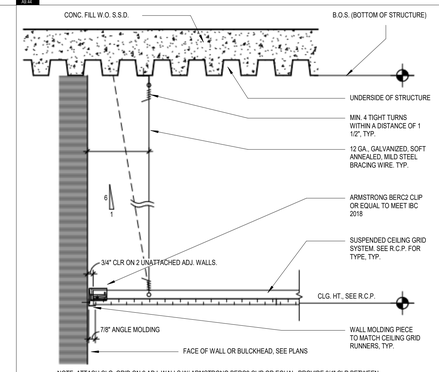


3 A2.44 TYP. ACOUS. TILE SUSP. CLG. COMPRESSION STRUT 1 1/2" = 1'-0"



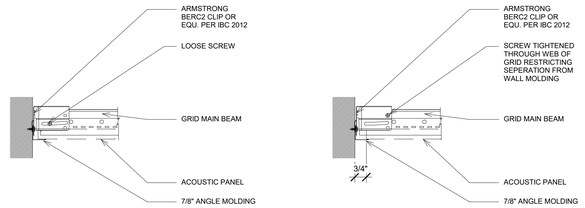
NOTES:
1. ALL LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED TO THE SUSPENDED CEILING SYSTEM. THE ATTACHMENT DEVICE SHALL HAVE A CAPACITY OF 100 PERCENT OF THE LIGHT FIXTURE WEIGHT ACTING IN ANY DIRECTION.
2. LIGHT FIXTURES WEIGHING EQUAL OR MORE THAN 55 LBS MUST BE SUPPORTED BY (4) 12 GAUGE TAUT WIRES, (1) AT EACH CORNER.

6 A2.44 LIGHT FIXTURE SUPPORT AT A.C.T. CEILING 1 1/2" = 1'-0"



NOTE: ATTACH CLG. GRID ON 2 ADJ. WALLS W/ ARMSTRONG BERC2 CLIP OR EQUAL. PROVIDE 3/4" CLR BETWEEN WALL AND GRID AT UNATTACHED WALLS USING BERC2 AND R.C.P.'S CLIP OR EQUAL. REFERENCE ICC ESR1308 FOR ADDITIONAL INFORMATION.

2 A2.44 TYP. ACOUS. TILE CEILING @ WALL - IBC CATEGORY D, E, F 1 1/2" = 1'-0"

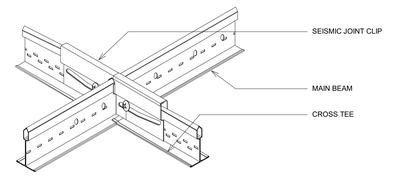


NOTES:
1. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE. WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.

2. NAILS AT ENDS OF HORIZONTAL STABILIZERS ARE TO BE PLACED WITH NAIL HEAD TOWARD CENTER LINE OF SPAN OF STRUT.

3.FASTEN ANGLE TO WALL STUD OR BLOCKING AS FOLLOWS:
A. METAL STUD (20 GA. MIN.) WALL: (1) #10 SMS AT 24" O.C. MAX.
B. WOOD STUD WALL: # 10x2" LONG WOOD SCREW AT 16" O.C. MAX.

9 A2.44 CEILING PERIMETER ATTACHMENT 3" = 1'-0"



SEISMIC JOINT CLIP INSTALLED

1 A2.44 TYP. GYP. BD. CEILING FRAMING 1 1/2" = 1'-0"

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	date	issue description
2		

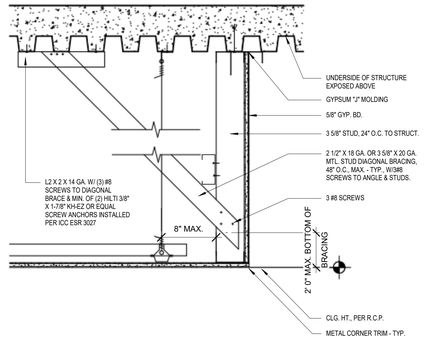
STATE OF CALIFORNIA
C-21 15
RENEWAL DATE
OCCUPATIONAL SAFETY AND HEALTH APPROVED

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: DECEMBER 17, 2024

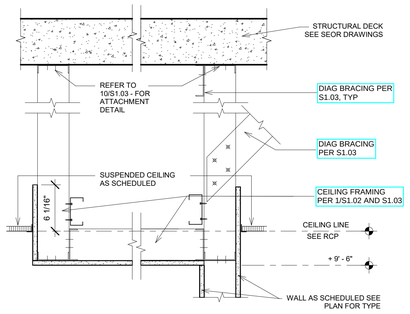
INTERIOR DETAILS - CEILINGS

A9.44



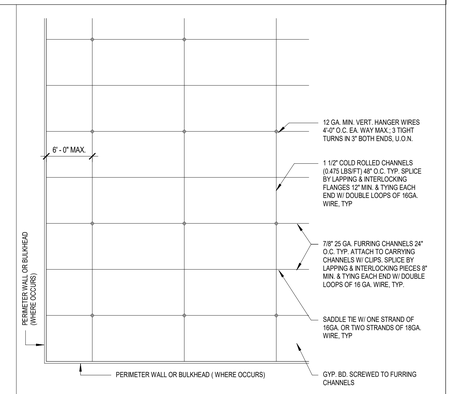
* SEE 10 / S1.03 FOR CEILING STRUCTURAL BRACING DETAILS

8 A0.45 TYP. GYP. BD. CEILING / BULKHEAD 1 1/2" = 1'-0"



* SEE 10 / S1.03 FOR CEILING STRUCTURAL BRACING DETAILS

11 A0.45 w-DOOR ALCOVE SOFFIT 1 1/2" = 1'-0"



3 A0.45 TYP. SUSP. CEILING FRAMING 3/8" = 1'-0"

1. ALL CEILINGS SHALL USE A HEAVY DUTY T-BAR GRID SYSTEM.
2. THE "PROPRIETARY" CLIP SHALL BE THE ARMSTRONG BERC-2 CLIP SYSTEM OR APPROVED AND LISTED EQUIVALENT. INSTALLATION SHALL BE PER ICC-ES EVALUATION REPORT ESR-1308, WHICH ALLOW THE USE OF 7/8" ALL MOLDING.
3. IN EACH ORTHOGONAL HORIZONTAL DIRECTION, ONE END OF THE CEILING GRID SHALL BE ATTACHED TO THE CLOSURE ANGLE.
4. THE OTHER END IN EACH HORIZONTAL DIRECTION SHALL HAVE A 3/4" CLEARANCE FROM THE WALL AND SHALL REST UPON AND BE FREE TO SLIDE ON A CLOSURE ANGLE OR A LISTED ASSEMBLY.
5. FOR CEILING AREA EXCEEDING 1,000 SF, HORIZONTAL RESTRAINT OF THE CEILING TO THE STRUCTURAL SYSTEM SHALL BE PROVIDED. SEE DETAILS THIS SHEET.
6. FOR CEILING AREA EXCEEDING 2,500 S.F., A SEISMIC SEPARATION JOINT OR FULL HEIGHT PARTITION THAT BREAKS THE CEILING UP INTO THE AREA NOT EXCEEDING 2,500 S.F. SHALL BE PROVIDED UNLESS STRUCTURAL ANALYSIS ARE PREFORMED OF THE CEILING BRACING SYSTEM FOR THE PRESCRIBE SEISMIC FORCES THAT DEMONSTRATE CEILING SYSTEM PENETRATIONS & CLOSURE ANGLES SEE DETAIL 20.
7. PROVIDE SUFFICIENT CLEARANCE TO ACCOMMODATE THE ANTICIPATED LATERAL DISPLACEMENT. SEE DETAILS ON THIS SHEET
8. EXCEPT WHERE RIGID BRACES ARE USED TO LIMIT LATERAL DEFLECTIONS, PENETRATIONS SHALL HAVE A 2" OVERSIZE RING, SLEEVE OR ADAPTER THROUGH THE CEILING TITLE TO ALLOW FOR FREE MOVEMENT OF AT LEAST 1" IN ALL HORIZONTAL DIRECTIONS IS PERMITTED. SEE DETAILS ON THIS SHEET.
9. SUSPENDED CEILING SHALL BE SUBJECT TO PERIODIC SPECIAL INSPECTION REQUIREMENTS. THE INSPECTION ENTAILS MANUFACTURER.
10. CERTIFICATION OF COMPONENT PERFORMANCE AND PERIODIC INSPECTION IF THE SUSPENDED CEILING SYSTEM ANCHORAGE SYSTEM.

METAL SUSPENSION SYSTEM FOR WOOD & GYPSUM BOARD CEILINGS

THE FOLLOWING NOTES ARE FOR CEILING SYSTEMS WHOSE TOTAL WEIGHT, INCLUDING AIR CONDITIONING/HEATING GRILLS AND LIGHT FIXTURES, DOES NOT EXCEED FOUR (4) PSF.

1. #12 GAGE (MIN.) HANGER WIRES MAY BE USED FOR UP TO AND INCLUDING 4 FT. BY 4 FT. GRID SPACING AND SHALL BE ATTACHED TO MAIN RUNNERS.

2. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LEAST, FOR THE PERIMETER OF THE CEILING AREA. END CONNECTIONS FOR RUNNERS WHICH ARE DESIGNED AND DETAILED TO RESIST THE APPLIED VERTICAL AND HORIZONTAL FORCES MAY BE USED IN LIEU OF THE #12 GAGE HANGER WIRES.

3. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO TYPICAL HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREAS. HANGER WIRES THAT ARE MORE THAN 1 IN 6 OUT OF PLUMB ARE TO HAVE COUNTER-SLOPING WIRES.

4. CEILING GRID MEMBERS MAY BE ATTACHED TO NOT MORE THAN TWO (2) ADJACENT WALLS. CEILING GRID MEMBERS SHALL BE AT LEAST 3/4 INCH CLEAR OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE, AND A MINIMUM OF 3/4 INCH CLEAR OF WALL.

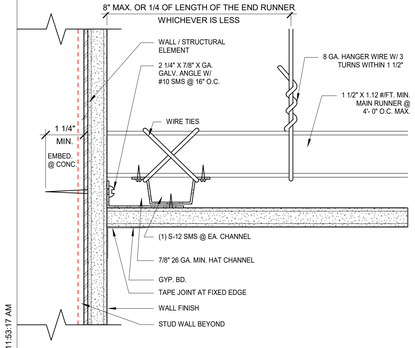
5. AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL STRUT OR A #16 GAGE WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNER MAY BE USED. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNER IS 12 INCHES OR LESS, THIS INTERLOCK IS NOT REQUIRED.

6. SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST SIX (6) INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT, ETC.

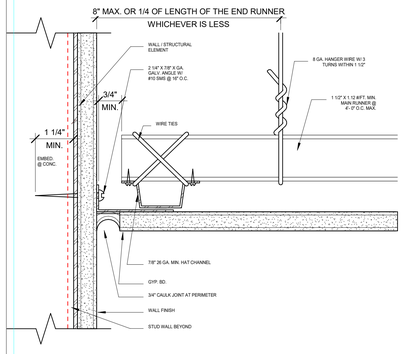
7. ATTACH ALL LIGHT FIXTURES AND CEILING MOUNTED AIR TERMINALS, TO THE CEILING GRID RUNNERS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURES. SCREWS OR APPROVED FASTENERS ARE REQUIRED.

8. FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS, WEIGHING LESS THAN 56 LBS., MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY DUTY GRID SYSTEM BUT, IN ADDITION THEY MUST HAVE A MINIMUM OF TWO (2) #12 GAGE SLACK SAFETY WIRES ATTACHED TO THE FIXTURE AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE. ALL 4 FT. X 4 FT. LIGHT FIXTURES MUST HAVE SLACK SAFETY WIRES AT EACH CORNER. ALL FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS WEIGHING 56 LBS. OR MORE MUST BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT #12 GAGE WIRES, EACH ATTACHED TO THE FIXTURE AND TO THE STRUCTURE ABOVE REGARDLESS OF THE TYPE OF CEILING GRID SYSTEM USED. THE FOUR (4) TAUT #12 GAGE WIRES, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, MUST BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE UNIT.

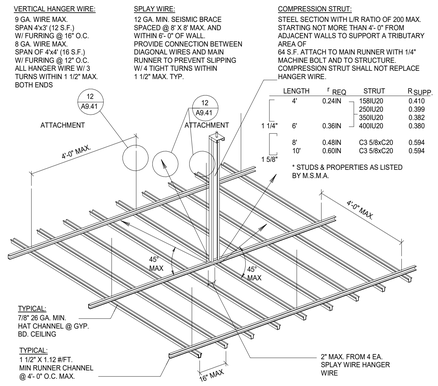
SUSPENDED CEILING NOTES



1 A0.45 w-GYP. BD PERIMETER (Perpendicular To Main Runner) FIXED EDGE CONDITION 6" = 1'-0"



13 A0.45 w-GYP. BD PERIMETER (Perpendicular To Main Runner) FLOATING EDGE CONDITION 6" = 1'-0"



LENGTH	℄ REQ	STRUT	R SUPP.
4'	0.24IN	150IU20	0.410
		250IU20	0.399
		350IU20	0.382
1 1/4" 6'	0.36IN	400IU20	0.380
8'	0.48N	C3 5/8xC20	0.594
10'	0.60N	C3 5/8xC20	0.594

* STUDS & PROPERTIES AS LISTED BY M.S.M.A.

9 A0.45 w-GYPSUM BOARD HEAVY DUTY SUSPENDED CEILING SYSTEM 1/8" = 1'-0"

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△	date	issue description

C-31415 RENEWAL DATE

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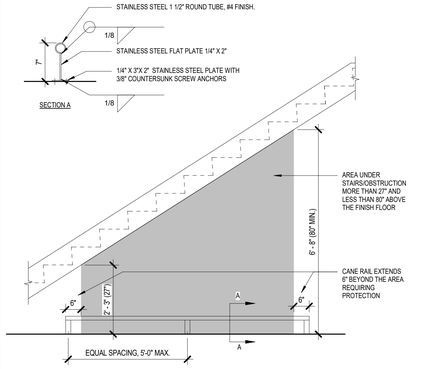
25555 HESPERIAN BLVD, HAYWARD, CA 94545

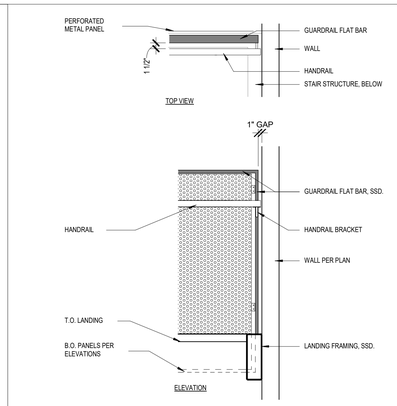
project number: 20-296
date: DECEMBER 17, 2024

CEILING DETAILS - GYP. BOARD

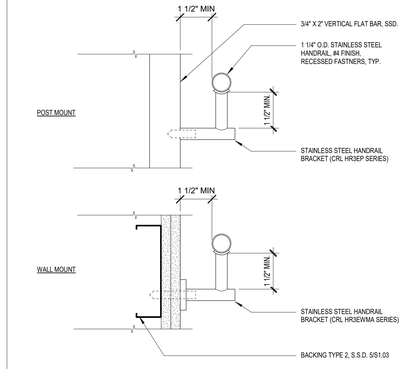
A9.45



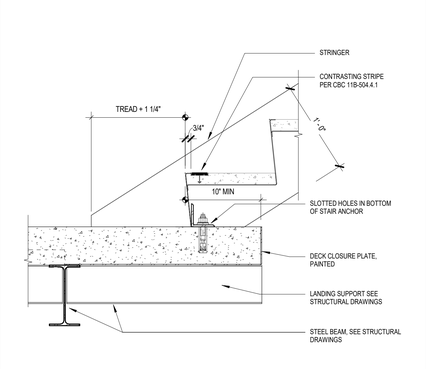
16 A9.51 CANE RAIL DETAIL, TYP. 1/2" = 1'-0"



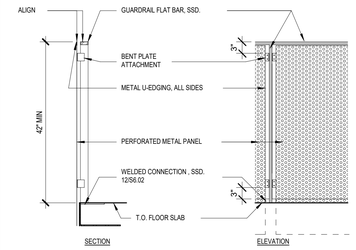
12 A9.51 HANDRAIL/GUARDRAIL @ LANDING - WALL TERMINATION 3/4" = 1'-0"



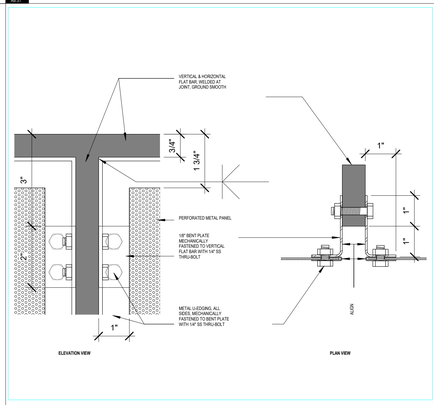
8 A9.51 TYPICAL STAIR HANDRAIL SUPPORT BRACKET DETAILS 3" = 1'-0"



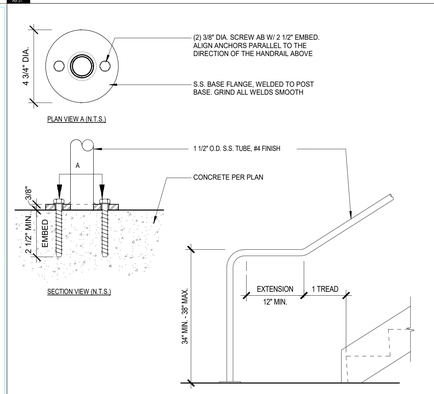
4 A9.51 BOTTOM OF STAIR RUN @ FLOOR LANDING 1 1/2" = 1'-0"



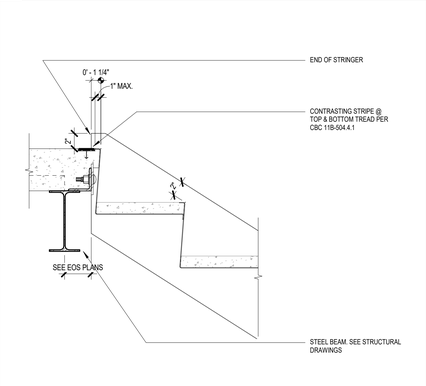
15 A9.51 GUARDRAIL @ CONCRETE FLOORS 3/4" = 1'-0"



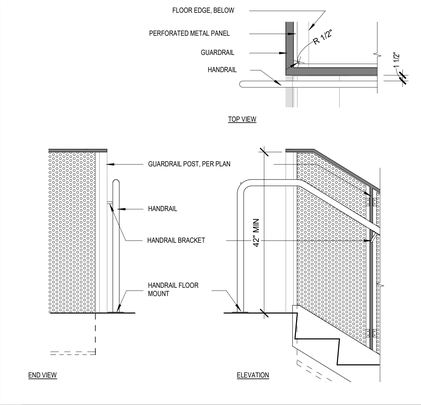
11 A9.51 GUARDRAIL - BENT PLATE ATTACHMENT DETAIL 6" = 1'-0"



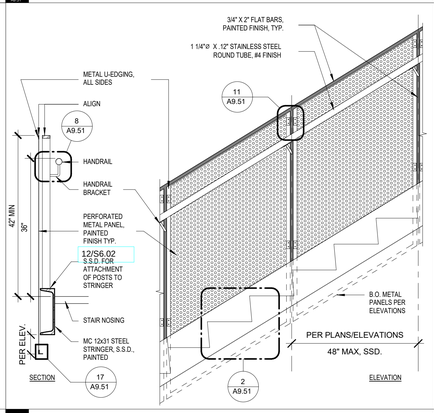
7 A9.51 STAIR HANDRAIL EXTENSION AND FLOOR MOUNT, TYP. 3/4" = 1'-0"



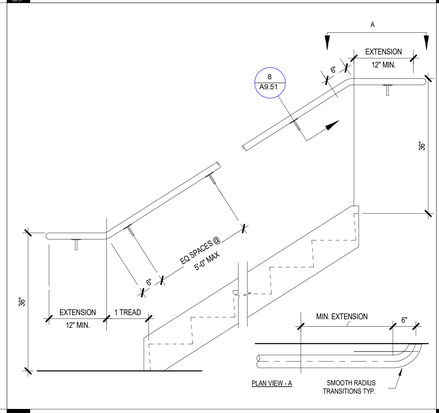
3 A9.51 TOP OF STAIR RUN @ FLOOR LANDING 1 1/2" = 1'-0"



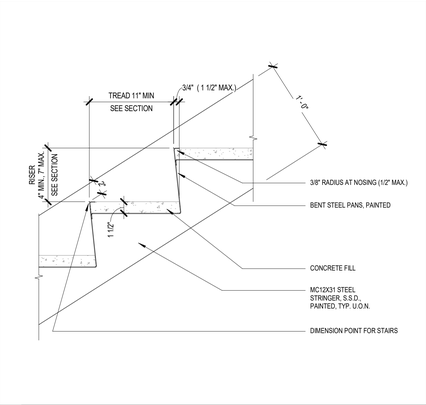
14 A9.51 STAIR #2 HANDRAIL EXTENSION & GUARDRAIL CORNER @ TOP OF STAIRS 3/4" = 1'-0"



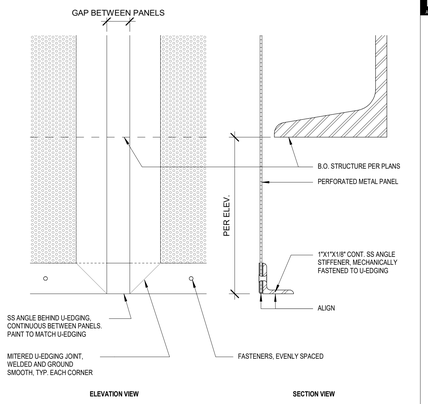
10 A9.51 TYPICAL STAIR HANDRAIL/GUARDRAIL DETAILS 3/4" = 1'-0"



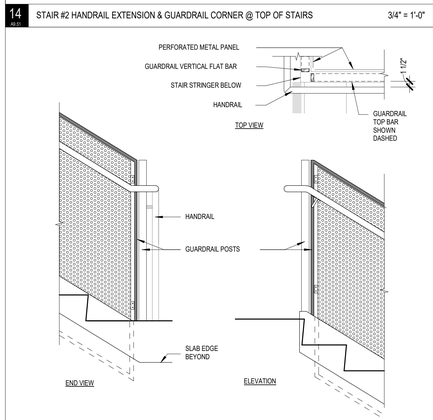
6 A9.51 TYPICAL HANDRAIL @ WALL 3/4" = 1'-0"



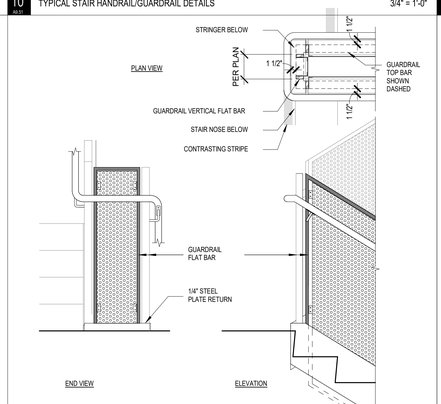
2 A9.51 TYPICAL TREAD SECTION 1 1/2" = 1'-0"



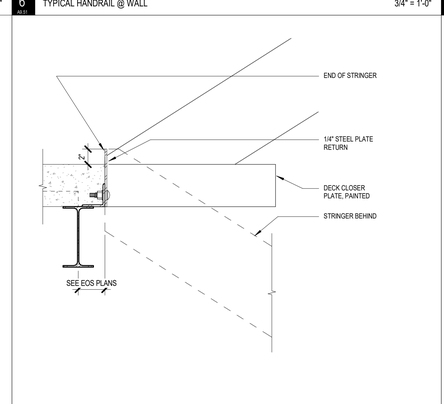
17 A9.51 GUARDRAIL - BOTTOM ANGLE ATTACHMENT DETAIL 6" = 1'-0"



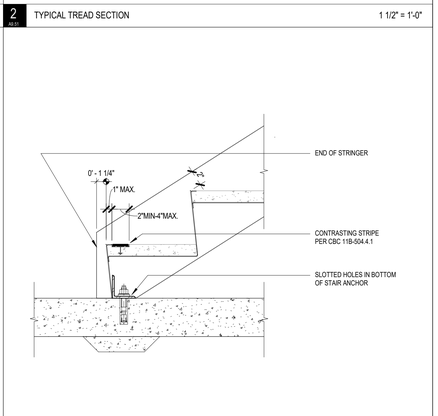
13 A9.51 STAIR #1 - HANDRAIL/GUARDRAIL @ LANDING 3/4" = 1'-0"



9 A9.51 STAIR #2 - HANDRAIL/GUARDRAIL @ LANDING 3/4" = 1'-0"



5 A9.51 TOP OF STAIR RUN @ FLOOR BETWEEN STRINGERS 1 1/2" = 1'-0"



1 A9.51 BOTTOM OF STAIR RUN @ GRADE LANDING, DRIFT JOINT 1 1/2" = 1'-0"

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△	date	issue description

Corrie S. Fink
RENEWAL DATE 08/31/2025

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: DECEMBER 17, 2024

INTERIOR DETAILS - STAIRS & GUARDRAILS

A9.51

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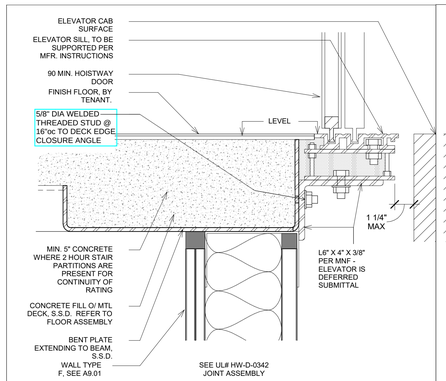
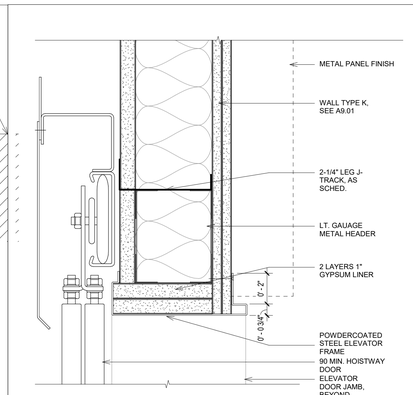
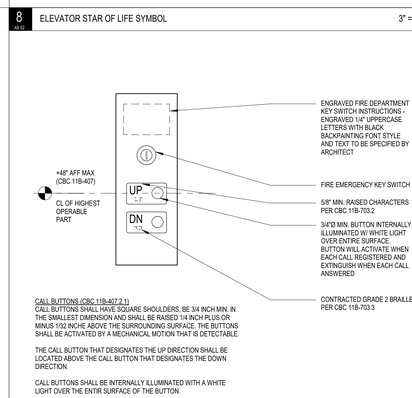


19 A9.52 DETAIL SECTION - ELEVATOR DOOR SILL @ L2 - L3, TYP. 3" = 1'-0"



15 A9.52 ELEVATOR DOOR HEAD, TYP. L1 TO L3 3" = 1'-0"

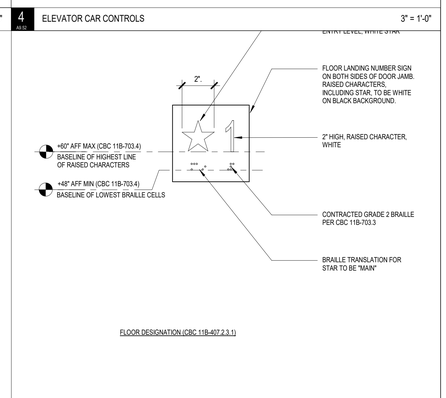


CALL BUTTONS (CBC 11B-407.2.1)
CALL BUTTONS SHALL HAVE SQUARE SHOULDERS, BE 3/4 INCH MIN. IN THE SMALLEST DIMENSION AND SHALL BE RAISED 1/4 INCH PLUS OR MINUS 1/32 INCHE ABOVE THE SURROUNDING SURFACE. THE BUTTONS SHALL BE ACTIVATED BY A MECHANICAL MOTION THAT IS DETECTABLE.

THE CALL BUTTON THAT DESIGNATES THE UP DIRECTION SHALL BE LOCATED ABOVE THE CALL BUTTON THAT DESIGNATES THE DOWN DIRECTION.

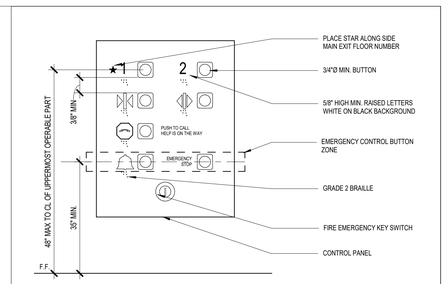
CALL BUTTONS SHALL BE INTERNALLY ILLUMINATED WITH A WHITE LIGHT OVER THE ENTR SURFACE OF THE BUTTON.

7 A9.52 ELEVATOR CALL BUTTONS 3" = 1'-0"



FLOOR DESIGNATION (CBC 11B-407.2.3.1)

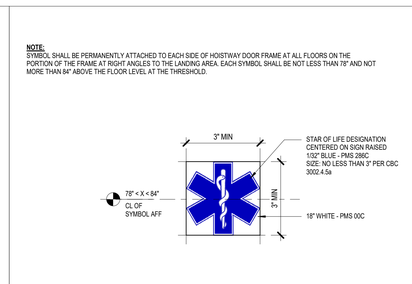
3 A9.52 ELEVATOR FLOOR DESIGNATION SIGN 3" = 1'-0"



ELEVATOR CAR CONTROL (CBC 11B-407.4)

- BUTTONS TO HAVE SQUARE SHOULDERS AND BE 3/4" MIN AT THEIR SMALLEST DIMENSION AND BE RAISED 18" PLUS OR MINUS 1/32" ABOVE SURROUNDING SURFACE
- BUTTONS ARRANGED W/ NUMBERS IN ASCENDING ORDER OR READ LEFT TO RIGHT IF TWO OR MORE COLUMNS
- BUTTONS TO BE ILLUMINATED AND ACTIVATED BY A MECHANICAL MOTION THAT IS DETECTABLE
- ALL BRAILLE TO BE LOCATED DIRECTLY BELOW RAISED SYMBOL AND BE CONTRACTED GRADE B PER CBC 11B-703.3

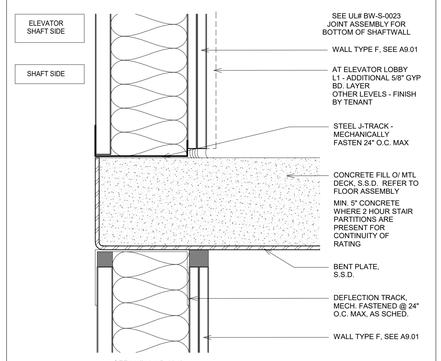
4 A9.52 ELEVATOR CAR CONTROLS 3" = 1'-0"



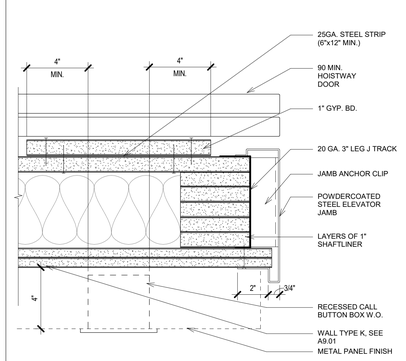
NOTE:
SYMBOL SHALL BE PERMANENTLY ATTACHED TO EACH SIDE OF HOISTWAY DOOR FRAME AT ALL FLOORS ON THE PORTION OF THE FRAME AT RIGHT ANGLES TO THE LANDING AREA. EACH SYMBOL SHALL BE NOT LESS THAN 78" AND NOT MORE THAN 84" ABOVE THE FLOOR LEVEL AT THE THRESHOLD.

STAR OF LIFE (INTERNATIONAL SYMBOL FOR EMERGENCY MEDICAL SERVICES)

8 A9.52 ELEVATOR STAR OF LIFE SYMBOL 3" = 1'-0"



18 A9.52 DET. SECTION - ELEV./SHAFT WALL AT PARALLEL DECK, TYP. 3" = 1'-0"



14 A9.52 ELEVATOR DOOR JAMB, TYP 3" = 1'-0"

ELEVATOR DOORS (CBC 11B-407.3)

- DOORS SHALL BE HORIZONTAL SLIDING TYPE
- HOISTWAY AND CAR DOORS SHALL OPEN AND CLOSE AUTOMATICALLY
- REOPENING DEVICE PER CBC 11B-407.3.3 ACTIVATED BY SENSING AN OBSTRUCTION PASSING THROUGH OPENING AT 5" (LINE A) AND AT 29" (LINE B) AFF.
- ELEVATOR DOORS TO REMAIN FULLY OPEN IN RESPONSE TO A CAR CALL FOR 5 SEC MIN.

EMERGENCY OPERATION (CFC 607.1)

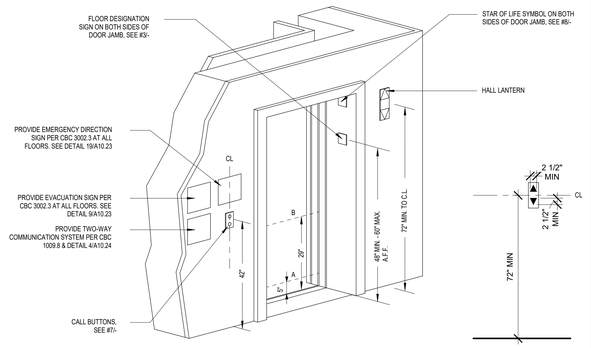
- ELEVATORS TO BE PROVIDED WITH PHASE I EMERGENCY RECALL OPERATION & PHASE II EMERGENCY IN-CAR OPERATION

1009.8TWO-WAY COMMUNICATION

- A TWO-WAY COMMUNICATION SYSTEM COMPLYING WITH SECTIONS 1009.8.1 AND 1009.8.2 SHALL BE PROVIDED AT THE LANDING SERVING EACH ELEVATOR OR BANK OF ELEVATORS ON EACH ACCESSIBLE FLOOR THAT IS ONE OR MORE STORIES ABOVE OR BELOW THE LEVEL OF EXIT DISCHARGE.

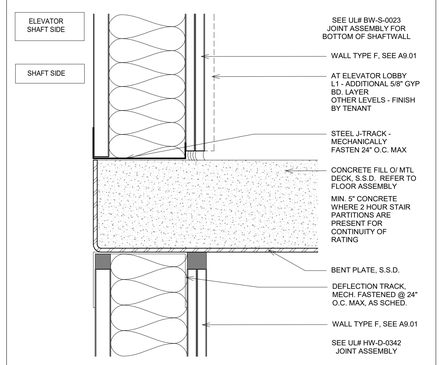
1009.8.2 DIRECTIONS

DIRECTIONS FOR THE USE OF THE TWO-WAY COMMUNICATION SYSTEM, INSTRUCTIONS FOR SUMMONING ASSISTANCE VIA THE TWO-WAY COMMUNICATION SYSTEM AND WRITTEN IDENTIFICATION OF THE LOCATION SHALL BE POSTED ADJACENT TO THE TWO-WAY COMMUNICATION SYSTEM. SIGNAGE SHALL COMPLY WITH CHAPTER 11A, SECTION 1143A OR SECTION 11B-703.5 REQUIREMENTS FOR VISUAL CHARACTERS.

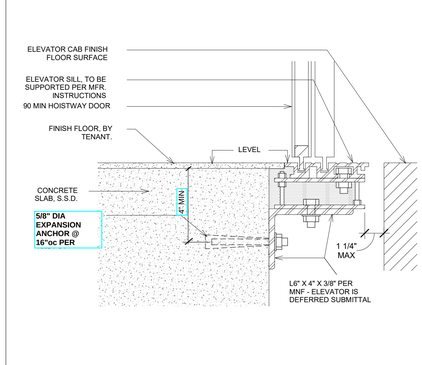


ELEVATOR ENTRANCE

6 A9.52 ELEVATOR ENTRY 1/2" = 1'-0"



17 A9.52 DET. SECTION - ELEV./SHAFT WALL PERP DECK, TYP. 3" = 1'-0"



13 A9.52 DETAIL SECTION - ELEVATOR DOOR SILL @ B1 - L1, TYP. 3" = 1'-0"

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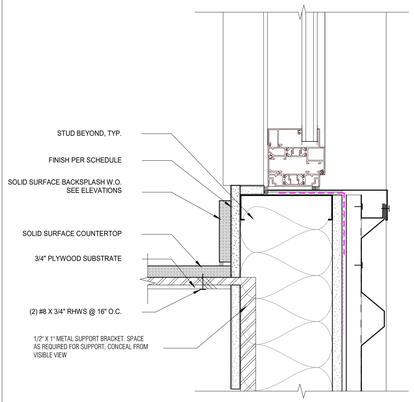
OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

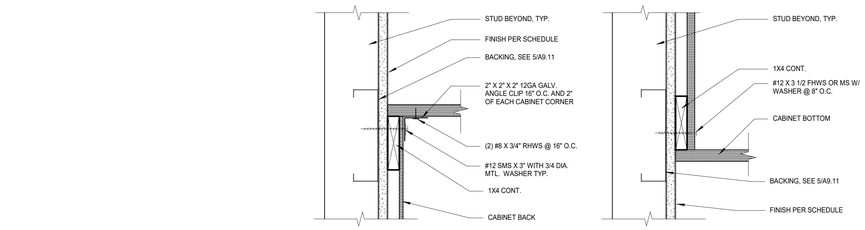
project number: 20-296
date: DECEMBER 17, 2024

INTERIOR DETAILS - ELEVATOR DETAILS

A9.52



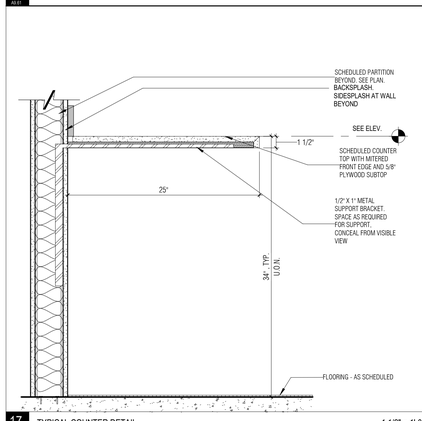
4 A9.61 COUNTER -WINDOW DETAIL 3" = 1'-0"



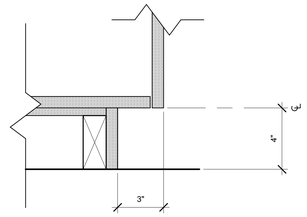
15 A9.61 CABINET ANCHORAGE DETAILS 3" = 1'-0"

1. REFER TO UPPER AND LOWER CABINET DIAGRAMS FOR TYPICAL MILLWORK ATTACHMENT DETAILS
2. SEE INTERIOR ELEVATIONS FOR MILLWORK HEIGHT AND DOOR SWING CONFIGURATIONS UNLESS NOTED ON DETAIL
3. ALL UPPER AND LOWER CABINETS SHALL BE FLUSH OVERLAY, CUSTOM GRADE, U.O.N.
4. PANEL PRODUCT FOR HIGH PRESSURE DECORATIVE LAMINATE SHALL BE INDUSTRIAL GRADE MEDIUM DENSITY FIBERBOARD, SEE SPECIFICATIONS WHERE PROVIDED.
5. THE FOLLOWING MEMBERS SHALL BE ¾" THICK PANEL PRODUCT OR LUMBER: DRAWER FRONTS, FACE FRAMES, RAILS, TOE KICKS AND CABINET BASES.
6. BODY MEMBERS (ENDS, DIVISIONS, FIXED SHELVES, BOTTOM AND TOPS) SHALL BE 3/4" THICK PANEL PRODUCT.
7. BACKS OF CABINETS AND DRAWER BOTTOMS SHALL BE 1/2" THICK PANEL PRODUCT.
8. DRAWER SIDES BACKS AND SUBFRONTS SHALL BE ½" THICK PANEL PRODUCT.
9. ADJUSTABLE SHELVES SHALL BE ¾" THICK PANEL PRODUCT FOR SPANS UP TO 32" AND 1" PANEL PRODUCT FOR SPANS UP TO 42"
10. ALL ADJSUTABLE SHELVES SHALL HAVE PIN SUPPORTS
11. CABINETS 42" OR WIDER SHALL HAVE CENTER SUPPORT.
12. ALL EXPOSED SURFACES OF MILLWORK SHALL BE HIGH PRESSURE LAMINATE NOMINAL 7MM THICK, REFER TO 06 40 23 - 4 DRAWINGS FOR LAMINATE SPECIFICATION. LAMINATE TYPE CALLED OUT ON **A6.04** DRAWINGS
13. PATTERNED LAMINATE SHALL BE CONTINUOUS ACROSS MULTIPLE CABINET FACES AND ACROSS DOOR AND DRAWER FRONTS.
14. THE GRAIN OF WOOD-GRAINED LAMINATE ON VERTICAL SURFACES SHALL BE IN THE VERTICAL DIRECTION, U.O.N.
15. SEMI-EXPOSED PARTS (NOT INCLUDING DRAWER BODIES AND BACKS OF FLUSH DOORS) SHALL BE THERMOSET DECORATIVE OVERLAY (MELAMINE OR EQUAL); COLOR: WHITE, UNLESS OTHERWISE NOTED.
16. FINISH OF EDGES OF BODY MEMBERS, EXPOSED SHELVES, AND DOOR AND DRAWER FRONTS SHALL BE THE SAME AS THE EXPOSED BODY MEMBERS.
17. FINISH EDGES OF SEMI-EXPOSED SHELVES SHALL BE THE SAME AS SEMI-EXPOSED PARTS OF MILLWORK.
18. HINGES SHALL BE 35 MM CONCEALED EUROPEAN-STYLE, NICKEL-PLATED 110-DEGREE OPENING, WITH PRESSED-IN-PLACE SYNTHETIC, BARBED HINGE SCREW POCKETS.
19. DRAWER GUIDES SHALL BE FULL EXTENSION HEAVY DUTY SPOXY COATED BI-RAIL ROLLER BEARING SLIDES WITH POSITIVE STOPS IN BOTH DIRECTIONS, SELF-CLOSING.
20. LAMINATE COUNTERTOPS SHALL NOT HAVE FIELD JOINTS WITHIN 18" OR FACTORY JOINTS WITHIN 9" OF ANY SINK OR LAVATORY CUT-OUT. ALL JOINTS WITHIN 46" OF A SINK OR LAVATORY CUT-OUT SHALL BE WATER-TIGHT.
21. JOINT BETWEEN LAMINATE TOP AND SPLASH SHALL HAVE AN APPLICATION OF CLEAR SILICONE SEALANT.
22. DOOR AND DRAWER PULLS SHALL BE 3" WIRE-TYPE PULL UNLESS OTHERWISE NOTED. REFER TO **XX SERIES (FINISH)** DRAWINGS FOR FINISH OF PULLS.
23. COUNTERTOPS AND/OR BACKSPLASHES ADJACENT TO PARTITIONS SHALL BE SCRIBED TO THE PARTITION. A CONTINUOUS SEALANT BEAD SHALL BE INSTALLED AT THE JOINT BETWEEN THE COUNTERTOP/BACKSPLASH AND PARTITION.

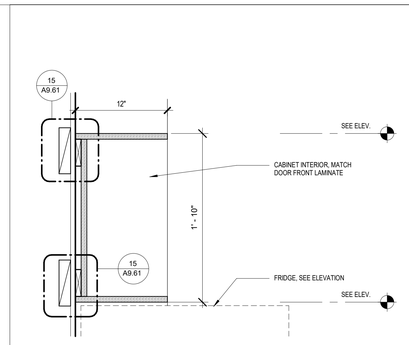
GN - MILLWORK



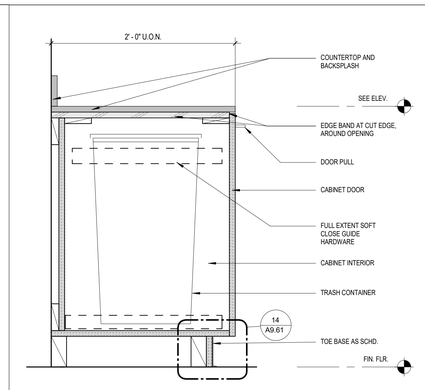
17 A9.61 TYPICAL COUNTER DETAIL 1 1/2" = 1'-0"



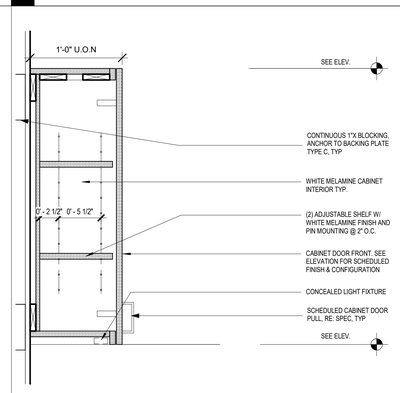
14 A9.61 TYP SECT DET @ ACCESSABLE CABINET BASE 3" = 1'-0"



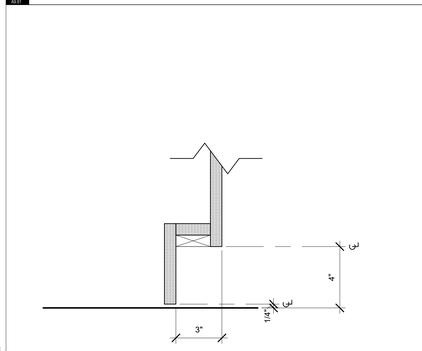
10 A9.61 TYPICAL UPPER CABINET WITHOUT DOOR 1 1/2" = 1'-0"



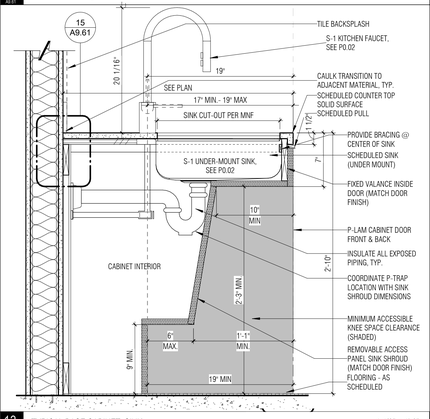
6 A9.61 TYP. BASE CABINET - BIN COMPARTMENT 1 1/2" = 1'-0"



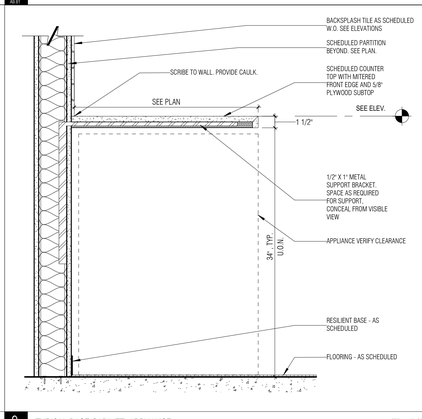
2 A9.61 TYP UPPER CABINET 1 1/2" = 1'-0"



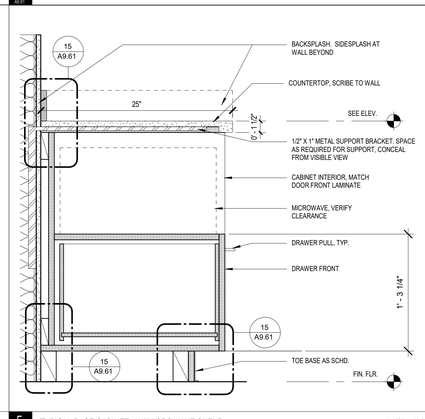
16 A9.61 TYP SECT DET @ CABINET TOE BASE 3" = 1'-0"



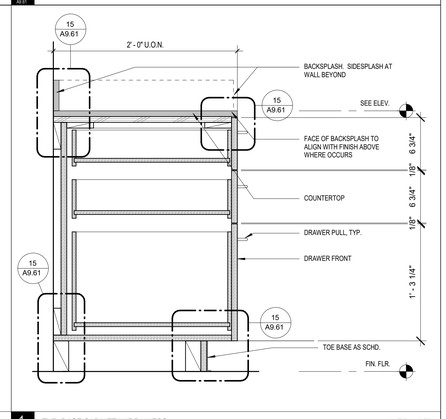
13 A9.61 TYPICAL BASE CABINET, SINK 1 1/2" = 1'-0"



9 A9.61 TYPICAL BASE CABINET, APPLIANCE 1 1/2" = 1'-0"



5 A9.61 TYPICAL BASE CABINET , W/ MICROWAVE SHELF 1 1/2" = 1'-0"



1 A9.61 TYP. BASE CABINET W/DRAWERS 1 1/2" = 1'-0"

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12/13/2024 11:53:27 AM

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-121159 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 2/19/2025

HGA

CHABOT COLLEGE

CLIENT
CHABOT COLLEGE
25555 HESPERIAN BLVD
HAYWARD, CA 94612

ARCHITECT
HGA
405 14th Street, Suite 500
Oakland, CA 94612
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2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

	date	issue description
1		

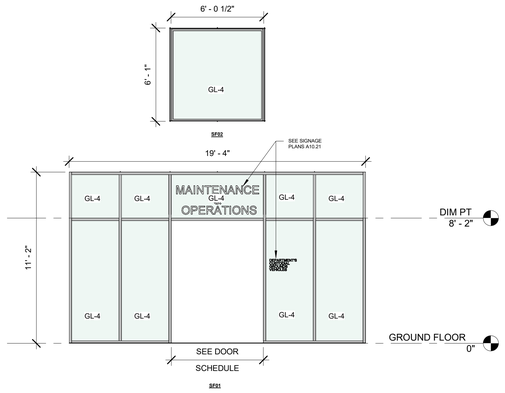
REGISTERED ARCHITECT C-31715 RENEWAL DATE OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: DECEMBER 17, 2024

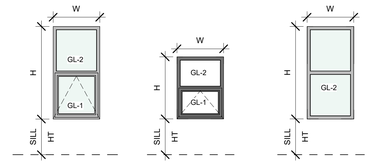
INTERIOR DETAILS - MILLWORK

A9.61



WINDOW SCHEDULE

MARK	W	H	SILL HEIGHT	HEAD	JAMB	SILL	COMMENTS
SF02	6' - 0"	6' - 0"	3' - 0"	15/A8.41	14/A8.41	13/A8.41	
W01	3' - 0"	6' - 0"	3' - 0"	19/A8.41	18/A8.41	17/A8.41	
W02	3' - 0"	4' - 0"	3' - 0"	19/A8.41	18/A8.41	17/A8.41	
W03	3' - 0"	6' - 0"	3' - 0"	19/A8.41	18/A8.41	17/A8.41	



STOREFRONT & WINDOW SCHEDULE — 1/4" = 1'-0"

DOOR SCHEDULE

REV.	DOOR #	ROOM #	ROOM NAME	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	RATING	DETAIL HEAD	DETAIL JAMB	DETAIL SILL	HARDWARE SET	NOTES
	100A	100	LOBBY	C	6' - 0"	8' - 0"	1 3/4"	AL	FAC	ALUM.	FAC.		7/A8.41	6/A8.41	5/A8.41	06	SEE SECURITY DWGS
	100B	100	LOBBY	B	3' - 0"	7' - 0"	1 3/4"	WD	PTD	HM	PTD		2/A9.31	2/A9.31	1/A9.31	12	
	101	101	ELEC. ROOM	A	3' - 0"	8' - 0"	1 3/4"	HM	PTD	HM	PTD		3/A8.41	2/A8.41	1/A8.41	01	
	102	102	MECH.	A	3' - 0"	8' - 0"	1 3/4"	HM	PTD	HM	PTD		3/A8.41	2/A8.41	1/A8.41	01	
	103	103	FIRE RISER	A	3' - 0"	8' - 0"	1 3/4"	HM	PTD	HM	PTD		4/A8.41	4/A8.41	1/A8.41	02	
	104A	104	CUSTODIAL	A	3' - 0"	8' - 0"	1 3/4"	HM	PTD	HM	PTD		4/A8.41	4/A8.41	1/A8.41	02	
	104B	104	CUSTODIAL	D	10' - 0"	12' - 0"		ST	FAC	ST	PTD		3/A8.42	2/A8.42	1/A8.42	17	10' OPENING WIDTHS, 10'-5" DOOR WIDTH - MOTORIZED
	104C	104	CUSTODIAL	B	3' - 0"	7' - 0"	1 3/4"	WD	PTD	HM	PTD		2/A9.31	2/A9.31	1/A9.31	07A	
	104D	104	CUSTODIAL	D	10' - 0"	12' - 0"		ST	FAC	ST	PTD		3/A8.42	2/A8.42	1/A8.42	17	10' OPENING WIDTHS, 10'-5" DOOR WIDTH - MOTORIZED
	105	105	CUSTODIAL KEY	B	3' - 0"	7' - 0"	1 3/4"	WD	PTD	HM	PTD		2/A9.31	2/A9.31	1/A9.31	07A	
	106A	106	WAREHOUSE	A	3' - 0"	8' - 0"	1 3/4"	HM	PTD	HM	PTD		4/A8.41	4/A8.41	1/A8.41	02	SEE SECURITY DWGS
	106B	106	WAREHOUSE	D	10' - 0"	12' - 0"		ST	FAC	ST	PTD		3/A8.42	2/A8.42	1/A8.42	17	10' OPENING WIDTHS, 10'-5" DOOR WIDTH - MOTORIZED
	106C	106	WAREHOUSE	A	3' - 0"	8' - 0"	1 3/4"	HM	PTD	HM	PTD		4/A8.41	4/A8.41	1/A8.41	02A	
	108.1	108.1	PAINT SHOP	BB	6' - 0"	7' - 0"	1 3/4"	WD	PTD	HM	PTD		2/A9.31	2/A9.31	1/A9.31	16A	
	108A	108	CARPENTRY SHOP	A	3' - 0"	8' - 0"	1 3/4"	HM	PTD	HM	PTD		3/A8.41	2/A8.41	1/A8.41	03	
	108B	108	CARPENTRY SHOP	D	10' - 0"	12' - 0"		ST	FAC	ST	PTD		3/A8.42	2/A8.42	1/A8.42	17	10' OPENING WIDTHS, 10'-5" DOOR WIDTH - MOTORIZED
	108C	108	CARPENTRY SHOP	B	3' - 0"	7' - 0"	1 3/4"	WD	PTD	HM	PTD		2/A9.31	2/A9.31	1/A9.31	11A	
	109A	109	ELEC. SHOP	A	3' - 0"	8' - 0"	1 3/4"	HM	PTD	HM	PTD		3/A8.41	2/A8.41	1/A8.41	03	
	109B	109	ELEC. SHOP	D	10' - 0"	12' - 0"		ST	FAC	ST	PTD		3/A8.42	2/A8.42	1/A8.42	17	10' OPENING WIDTHS, 10'-5" DOOR WIDTH - MOTORIZED
	109C	109	ELEC. SHOP	B	3' - 0"	7' - 0"	1 3/4"	WD	PTD	HM	PTD		2/A9.31	2/A9.31	1/A9.31	09	
	110A	110	HVAC SHOP	A	3' - 0"	8' - 0"	1 3/4"	HM	PTD	HM	PTD		3/A8.41	2/A8.41	1/A8.41	03	
	110B	110	HVAC SHOP	D	10' - 0"	12' - 0"		ST	FAC	ST	PTD		3/A8.42	2/A8.42	1/A8.42	17	10' OPENING WIDTHS, 10'-5" DOOR WIDTH - MOTORIZED
	110C	110	HVAC SHOP	B	3' - 0"	7' - 0"	1 3/4"	WD	PTD	HM	PTD		2/A9.31	2/A9.31	1/A9.31	09	
	111	111.2	BDF	AA	6' - 0"	7' - 0"	1 3/4"	WD	PTD	HM	PTD		2/A9.31	2/A9.31	1/A9.31	16	SEE SECURITY DWGS
	112A	112	M&O STORAGE 1	A	3' - 0"	8' - 0"	1 3/4"	HM	PTD	HM	PTD		3/A8.41	2/A8.41	1/A8.41	02	
	112B	112	M&O STORAGE 1	D	10' - 0"	12' - 0"		ST	FAC	ST	PTD		3/A8.42	2/A8.42	1/A8.42	17	10' OPENING WIDTHS, 10'-5" DOOR WIDTH - MOTORIZED
	112C	112	M&O STORAGE 1	B	3' - 0"	7' - 0"	1 3/4"	WD	PTD	HM	PTD		2/A9.31	2/A9.31	1/A9.31	08A	
	112D	112	M&O STORAGE 1	B	3' - 0"	7' - 0"	1 3/4"	WD	PTD	HM	PTD		2/A9.31	2/A9.31	1/A9.31	07A	
	113	113	RR	A	3' - 0"	7' - 0"	1 3/4"	WD	PTD	HM	PTD		2/A9.31	2/A9.31	5/A9.31	10	SEE MECH. FOR UNDERCUT DR.
	114	114	SECURE WH	B	3' - 0"	7' - 0"	1 3/4"	WD	PTD	HM	PTD		2/A9.31	2/A9.31	1/A9.31	09A	SEE SECURITY DWGS
	115A	115	GROUNDS SHOP	A	3' - 0"	8' - 0"	1 3/4"	HM	PTD	HM	PTD		3/A8.41	2/A8.41	1/A8.41	03	
	115B	115	GROUNDS SHOP	D	12' - 0"	12' - 0"		ST	FAC	ST	PTD		3/A8.42	2/A8.42	1/A8.42	17	12' OPENING WIDTHS, 12'-5" DOOR WIDTH - MOTORIZED
	115C	115	GROUNDS SHOP	B	3' - 0"	7' - 0"	1 3/4"	WD	PTD	HM	PTD		2/A9.31	2/A9.31	1/A9.31	11A	
	117	117	STORAGE	A	3' - 0"	7' - 0"	1 3/4"	HM	PTD	HM	PTD	90 MIN	3/A9.31	2/A9.31	1/A9.31	07	
	118	130	STAIR 2	A	3' - 0"	8' - 0"	1 3/4"	HM	PTD	HM	PTD		3/A8.41	2/A8.41	1/A8.41	04	SEE SECURITY DWGS
	119A	119	VEHICLE MAINT. SHOP	A	3' - 0"	8' - 0"	1 3/4"	HM	PTD	HM	PTD		3/A8.41	2/A8.41	1/A8.41	03	
	119B	119	VEHICLE MAINT. SHOP	D	10' - 0"	12' - 0"		ST	FAC	ST	PTD		3/A8.42	2/A8.42	1/A8.42	17	10' OPENING WIDTHS, 10'-5" DOOR WIDTH - MOTORIZED
	119C	115	GROUNDS SHOP	B	3' - 0"	7' - 0"	1 3/4"	WD	PTD	HM	PTD		2/A9.31	2/A9.31	1/A9.31	13	
	119D	119	VEHICLE MAINT. SHOP	A	3' - 0"	8' - 0"	1 3/4"	HM	PTD	HM	PTD		3/A8.41	2/A8.41	1/A8.41	02A	SEE SECURITY DWGS
	119E	119	VEHICLE MAINT. SHOP	D	12' - 0"	16' - 0"		ST	FAC	ST	PTD		3/A8.42	2/A8.42	1/A8.42	17	12' OPENING WIDTHS, 12'-5" DOOR WIDTH - MOTORIZED
	120	120	RR	A	3' - 0"	7' - 0"	1 3/4"	WD	PTD	HM	PTD		2/A9.31	2/A9.31	5/A9.31	10	SEE MECH. FOR UNDERCUT DR.
	121	121	SECURE SHOP	B	3' - 0"	7' - 0"	1 3/4"	WD	PTD	HM	PTD		2/A9.31	2/A9.31	1/A9.31	11A	SEE MECH. FOR UNDERCUT DR.
	201	201	SHARED LEAD'S OFFICE	B	3' - 0"	7' - 0"	1 3/4"	WD	PTD	HM	PTD		2/A9.31	2/A9.31	7/A9.31	11	
	202	202	LOUNGE	B	3' - 0"	7' - 0"	1 3/4"	WD	PTD	HM	PTD		2/A9.31	2/A9.31	7/A9.31	11	
	204	204	SUPERVISOR OFFICE #2	B	3' - 0"	7' - 0"	1 3/4"	WD	PTD	HM	PTD		2/A9.31	2/A9.31	7/A9.31	11	
	205	205	MTG RM 2	B	3' - 0"	7' - 0"	1 3/4"	WD									
	206	206	SUPERVISOR OFFICE #3/4	B	3' - 0"	7' - 0"	1 3/4"	WD	PTD	HM	PTD		2/A9.31	2/A9.31	7/A9.31	11	
	207	207	IDF ROOM	A	3' - 0"	7' - 0"	1 3/4"	WD	PTD	HM	PTD		2/A9.31	2/A9.31	8/A9.31	09B	SEE SECURITY DWGS
	208	208	W - RESTROOM	A	3' - 0"	7' - 0"	1 3/4"	WD	PTD	HM	PTD		2/A9.31	2/A9.31	6/A9.31	14	
	209	203	LOUNGE	A	2' - 0"	3' - 0"	1 3/4"	HM	PTD	HM	PTD		3/A8.41	2/A8.42		03	
	210	210	SUPERVISOR OFFICE #1	B	3' - 0"	7' - 0"	1 3/4"	WD	PTD	HM	PTD		2/A9.31	2/A9.31	7/A9.31	11	
	211	211	LOCKSMITH	B	3' - 0"	7' - 0"	1 3/4"	WD	PTD	HM	PTD		2/A9.31	2/A9.31	8/A9.31	11	
	212	212	M - RESTROOM	A	3' - 0"	7' - 0"	1 3/4"	WD	PTD	HM	PTD		2/A9.31	2/A9.31	6/A9.31	14	
	214	214	MANAGER OFFICE 1	B	3' - 0"	7' - 0"	1 3/4"	WD	PTD	HM	PTD		2/A9.31	2/A9.31	7/A9.31	11	
	215	215	MTG RM 1	B	3' - 0"	7' - 0"	1 3/4"	WD	PTD	HM	PTD		2/A9.31	2/A9.31	7/A9.31	11	
	216	216	ELEC.	B	3' - 0"	7' - 0"	1 3/4"	WD	PTD	HM	PTD		2/A9.31	2/A9.31	4/A9.31	07	
	217	217	JAN.	A	3' - 0"	7' - 0"	1 3/4"	WD	PTD	HM	PTD		2/A9.31	2/A9.31	5/A9.31	07A	SEE MECH. FOR UNDERCUT DR.
	220	220	DIRECTOR	B	3' - 0"	7' - 0"	1 3/4"	WD	PTD	HM	PTD		2/A9.31	2/A9.31	7/A9.31	11	
	221A	221	M&O STORAGE 3	A	3' - 0"	6' - 0"	1 3/4"	HM	PTD	HM	PTD		2/A9.31	2/A9.31	8/A9.31	02	
	221B	221	M&O STORAGE 3	AA	6' - 0"	7' - 0"	1 3/4"	WD	PTD	HM	PTD		2/A9.31	2/A9.31	8/A9.31	15	
	222	222	STORAGE	A	3' - 0"	7' - 0"	1 3/4"	WD	PTD	HM	PTD		2/A9.31	2/A9.31	8/A9.31	07	
	300	300	TRASH ENCLOSURE	F	18' - 0"	8' - 0"	2"	ST	PTD	ST	PTD					18	EXTERIOR DOUBLE GATE
	301			G	3' - 6"	8' - 0"		ST	PTD	ST	PTD					05	SEE LANDSCAPE DWG.
	302			G	3' - 6"	8' - 0"		ST	PTD	ST	PTD					05	SEE LANDSCAPE DWG.
	303			G	3' - 6"	8' - 0"		ST	PTD	ST	PTD					05	SEE LANDSCAPE DWG.

1. SEE FLOOR PLAN FOR DOOR TAG REFERENCES.
2. FINISH FLOOR TRANSITIONS OCCUR AT CENTERLINE OF DOORS, U.O.N.
3. ALL EXTERIOR DOORS TO HAVE METAL THRESHOLD.
4. WHERE DOOR HOLD-OPEN DEVICES OCCUR AT WALLS, PROVIDE BLOCKING PLATE PER BACKING PLATE SCHEDULE.
5. ALL HOLLOW METAL DOORS AND FRAMES TO BE PAINTED.
6. FOR ALL DR FRAME TYPES SEE CURTAINWALL SCHEDULE SHEETS **A10.11**
7. FORCE NECESSARY TO OPEN DOORS TO MEET THE FOLLOWING:
   -INTERIOR SWINGING, MANUALLY OPERATED EGRESS DOORS (OTHER THAN A FIRE DOOR): NOT TO EXCEED 5-POUNDS.
   -SWINGING, SLIDING, OR FOLDING DOORS, AND FIRE RATED DOORS: NOT TO EXCEED 30-POUNDS TO SET THE DOOR IN MOTION, AND SHALL MOVE DOOR TO THE FULL-OPEN POSITION WITH NOT MORE THAN 15-POUND FORCE.
8. GLAZING IN ALL FIXED AND OPERABLE PANELS OF SWINGING, SLIDING AND BIFOLD DOORS SHALL BE TEMPERED (CBC 2406.4.1.)
9. DOOR HARDWARE FROM EXTERIOR DECKS TO THE INTERIOR SHALL BE OPENABLE WITHOUT USE OF A KEY, ANY SPECIAL KNOWLEDGE OR EFFORT.
10. STOREFRONT DOOR U-VALUE: SEE GLAZING TYPE LEGEND
    CURTAINWALL DOOR U-VALUE: SEE GLAZING TYPE LEGEND
11. A PERMANENT LABEL SHALL IDENTIFY REQUIRED SAFETY GLAZING (I.E. TEMPERED) INSTALLED IN THE FOLLOWING LOCATIONS:
    A. WITHIN 24" OF EITHER SIDE OF ANY DOOR
    B. GREATER THAN 9 SQ. FT. IN AREA WITH BOTTOM EDGES LESS THAN 18" ABOVE| AND HORIZONTALLY WIHITHN 356" OF A WALKING SURFACE.
    C. LITES IN DOOR PANELS. CBC 2406.3 AND 2406.4
12. SEE **A10.11** FOR PAINT FINISH LEGEND
13. DOOR HARDWARE SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE HAND PER CBC 11N-309.4 AND CBC 11B-4040.2.7
14. DOOR THRESHOLDS SHALL COMPLY WITH CBC 11B-404.2.5
15. DOOR OPENING HARDWARE SHALL BE MOUNTED 34" TO 44" A.F.F. PER CBC 11B-404.2.7
16. REFER TO MECH. DWG. FOR DOORS THAT REQUIRE 3/4" UNDERCUT.
17. OPERABLE WINDOWS 11B-229.1
    WHERE OPERABLE WINDOWS ARE PROVIDED IN ACCESSIBLE SPACES FOR OPERATION BY OCCUPANTS, AT LEAST ONE IN EACH SPACE SHALL BE ACCESSIBLE SPECIFY WINDOW HARDWARE OR CONTROLLER, OR PROVIDE DETAILS DEMONSTRATING COMPLIANCE. PLAN REVIEWERS WILL ACCEPT HARDWARE THAT CAN BE OPERATED WITH A CLOSED FIST, MAXIMUM 5 LBS FORCE, AND WITHIN ACCESSIBLE REACH, AS DEMONSTRATING COMPLIANCE WITH 11B-309.4 AND 11B-229.1.

GENERAL NOTES

GLAZING NOTES

1. ALL EXTERIOR GLAZING SHALL BE LOW-E. 1" INSULATED GLAZING UNITS (IGU) U.O.N.
   MAX U-VALUE: 0.46
   MAX. SHGC: 0.27
   MIN. VT.: 0.32

GL-1 OPERABLE WINDOW, TEMPERED

GL-2 FIXED WINDOW, TEMPERED

GL-3 STOREFRONT DOOR GLAZING

GL-4 FIXED STOREFRONT GLAZING

GL-5 INTERIOR GLAZING, 1/4" TEMPERED

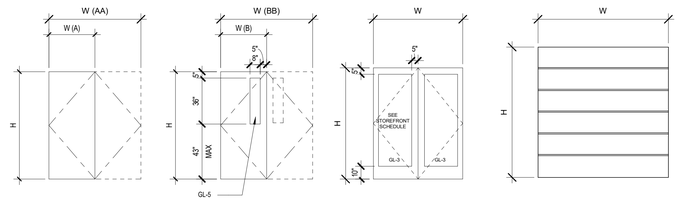
2. GLAZING SHALL BE TEMPERED IF IT MEETS ALL CONDITIONS PER CBC 2406.4.3
3. GLAZING ADJACENT TO DOORS - SHALL BE TEMPERED WHERE THE NEAREST VERTICAL EDGE OF THE GLAZING IS WITHIN 24 INCHE ARC OF EITHER THE VERTICAL EDGE OF THE DOOR IN A CLOSED POSITION AND WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING S LESS THAN 60 INCHES ABOVE THE WALKING SURFACE (CBC 2406.4.2)
4. GLASS IN GLAZED CURTAIN WALLS, GLAZED STOREFRONTS, AND GLAZED PARTITIONS SHALL MEET THE SEISMIC REQUIREMENTS OF ASCE 7 SECTION 13.5.9 CBC 2404.1
5. WHERE ONE OR MORE SIDES OF ANY PANE OF GLASS ARE NOT FIRMLY SUPPORTED, OR ARE SUBJECTED TO UNUSUAL LOAD CONDITIONS, DETAILED CONSTRUCTION DOCUMENTS DETAILED SHOP DRAWINGS AND ANALYSIS OR TEST DATA ASSURING SAFE PERFORMANCE FOR THE SPECIFIC INSTALLATION SHALL BE PREPARED BY A REGISTERED DESIGN PROFESSIONAL CBC § 2403.2. TO BE CONSIDERED FIRMLY SUPPORTED, THE FRAMING MEMBERS FOR EACH INDIVIDUAL PANE OF GLASS SHALL BE DESIGNED SO THE DEFLECTION OF THE EDGE OF THE GLASS PERPENDICULAR TO THE GLASS PANE SHALL NOT EXCEED 1/175 OF THE GLASS EDGE LENGTH OR 3/4 INCH. WHICHEVER IS LESS WHEN SUBJECTED TO THE LARGER OF THE POSITIVE OR NEGATIVE LOAD WHERE LOADS ARE COMBINED AS SPECIFIED IN CBC SECTION 1605. CBC §2403.3
6. FIELD VERIFY ALL ROUGH OPENINGS PRIOR TO WINDOW INSTALLATION

* NOTE: ALL STOREFRONT GLAZING TO HAVE MAX U-VALUE OF .41 AND MAX SHGC OF .26 AND SHALL BE TEMPERED

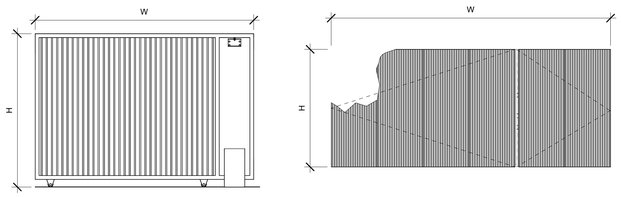
GLAZING TYPE LEGEND

ABBREVIATIONS

AL	CLEAR ANNODIZED ALUMINUM
CD	COIL DOOR
CW	CURTAIN WALL
FAC	FACTORY FINISH
GALV	GALVANIZED
GL	GLASS
HI	HIGH IMPACT DOORS (TRAFFIC DOORS)
HM	HOLLOW METAL
MFR	MANUFACTURER
PGW	PAINT GRADE WOOD
PTD	PAINTED
SF	STOREFRONT
SS	STAINLESS STEEL
ST	STEEL
STN	STAINED
WD	SOLID CORE WOOD
WV	WOOD VENEER, WD1



* ALL SECTIONAL DOORS TO HAVE MOTORIZED ASSIST SEE ROLL-UP SPECIFICATIONS



DOOR SCHEDULE — 1/4" = 1'-0"

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	date	issue description
2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

REGISTERED ARCHITECT C-31115 RENEWAL DATE STATE OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: DECEMBER 17, 2024

DOOR & WINDOW SCHEDULE

A10.11

1. REFER TO **G1.13** FOR SIGN TYPE & **A10.23 AND A10.24** FOR CODE COMPLIANT SIGNAGE TYPE DETAILS.
2. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL EXIT SIGNS AND EMERGENCY LIGHTING.
3. 11B-703.1.1.2 INSPECTION
SIGNS AND IDENTIFICATION DEVICES SHALL BE FIELD INSPECTED AFTER INSTALLATION AND APPROVED BY THE ENFORCING AGENCY PRIOR TO THE ISSUANCE OF A FINAL CERTIFICATE OF OCCUPANCY PER CHAPTER 1, DIVISION II, SECTION 111, OR FINAL APPROVAL WHERE NO CERTIFICATE OF OCCUPANCY IS ISSUED. THE INSPECTION SHALL INCLUDE, BUT NOT BE LIMITED TO, VERIFICATION THAT BRAILLE DOTS AND CELLS ARE PROPERLY SPACED AND THE SIZE, PROPORTION AND TYPE OF RAISED CHARACTERS ARE IN COMPLIANCE WITH THESE REGULATIONS.

GENERAL NOTES - SIGNAGE

A3	ALL GENDER RESTROOM TACTILE DOOR SIGN, SIGN TYPE A
B1 B2 B3	RESTROOM IDENTIFICATION SIGN, SIGN TYPE B
C	TACTILE EXIT SIGN, SIGN TYPE C
D	TACTILE EXIT ROUTE SIGN, SIGN TYPE D
E	EMERGENCY EVACUATION SIGN, SIGN TYPE E
F	MAXIMUM OCCUPANCY SIGN, SIGN TYPE F
G H1 H2 J1 J2 K	ROOM IDENTIFICATION SIGN, SIGN TYPE G, H1, H2, J1, J2, K
L	INTERNATIONAL SYMBOL OF ACCESSIBILITY
M	NO SMOKING SIGN, SIGN TYPE M
N	TWO-WAY COMMICATION - DO NOT USE ELEVATOR SIGN, SIGN TYPE N
S	STORAGE MAX LOAD SIGN 125 PSF MAX

ILLUMINATED EXIT SIGN

EXIT SIGN - CEILING HUNG
DIRECTION OF EGRESS
EXIT SIGN - WALL HUNG
DIRECTION OF EGRESS
ACCESSIBLE PATH OF TRAVEL INTO BUILDING

1. SIGNAGE SHALL BE PREPARED PER REQUIREMENTS OF 2022 CBC.

SIGNAGE LEGEND

1 A10.21 SIGNAGE PLAN - GROUND FLOOR 1/8" = 1'-0"

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2	2024.12.17	DSA PC2
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	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

#	date	issue description

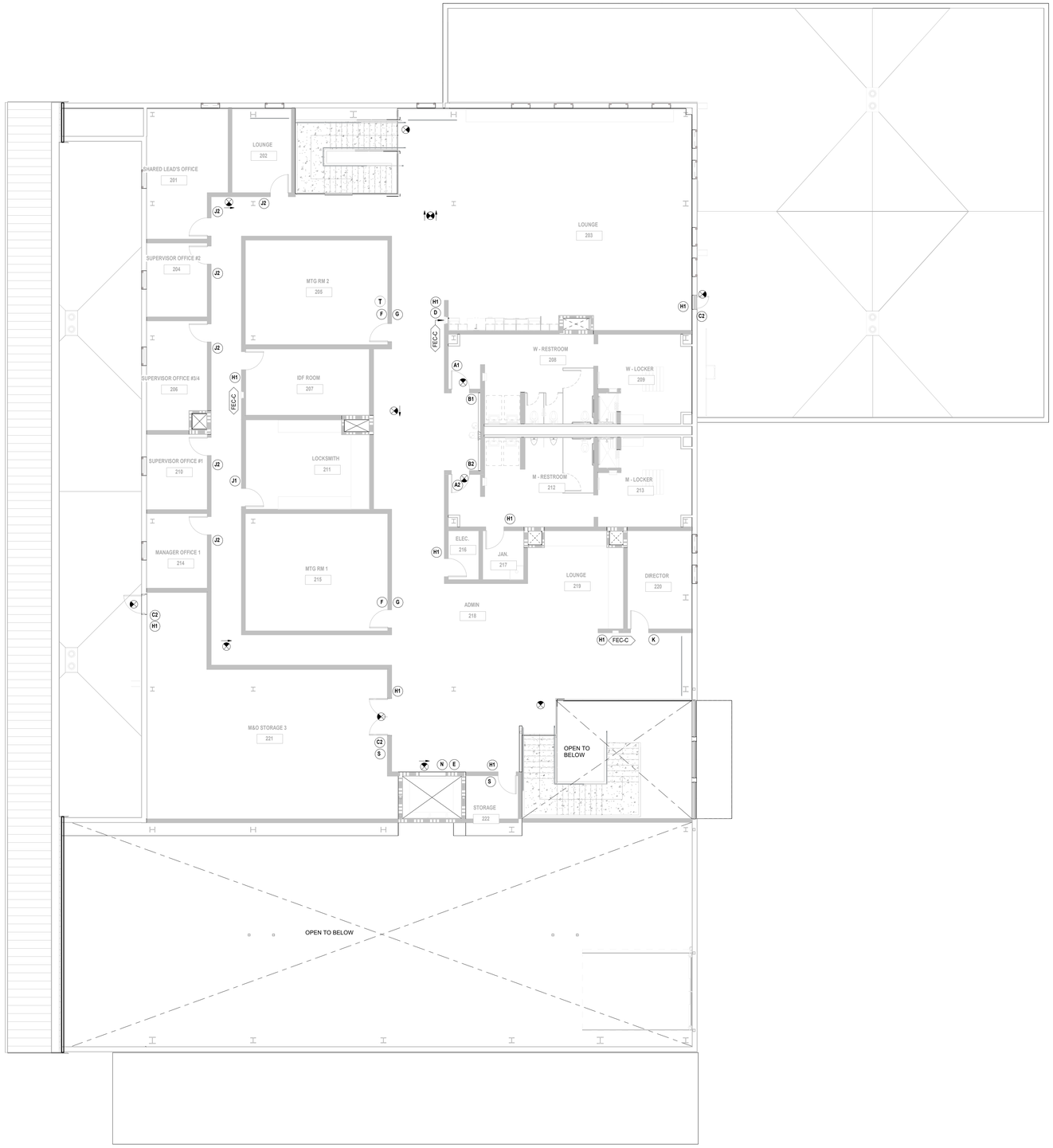
REGISTERED ARCHITECT
C-31915
RENEWAL DATE
STATE OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: DECEMBER 17, 2024

SIGNAGE LOCATION PLAN - GROUND LEVEL

A10.21



1. REFER TO **G1.13** FOR SIGN TYPE & **A10.23 AND A10.24** FOR CODE COMPLIANT SIGNAGE TYPE DETAILS.
2. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL EXIT SIGNS AND EMERGENCY LIGHTING.
3. 11B-703.1.1.2 INSPECTION
   SIGNS AND IDENTIFICATION DEVICES SHALL BE FIELD INSPECTED AFTER INSTALLATION AND APPROVED BY THE ENFORCING AGENCY PRIOR TO THE ISSUANCE OF A FINAL CERTIFICATE OF OCCUPANCY PER CHAPTER 1, DIVISION II, SECTION 111, OR FINAL APPROVAL WHERE NO CERTIFICATE OF OCCUPANCY IS ISSUED. THE INSPECTION SHALL INCLUDE, BUT NOT BE LIMITED TO, VERIFICATION THAT BRAILLE DOTS AND CELLS ARE PROPERLY SPACED AND THE SIZE, PROPORTION AND TYPE OF RAISED CHARACTERS ARE IN COMPLIANCE WITH THESE REGULATIONS.

GENERAL NOTES - SIGNAGE

A3	ALL GENDER RESTROOM TACTILE DOOR SIGN, SIGN TYPE A
B1 B2 B3	RESTROOM IDENTIFICATION SIGN, SIGN TYPE B
C	TACTILE EXIT SIGN, SIGN TYPE C
D	TACTILE EXIT ROUTE SIGN, SIGN TYPE D
E	EMERGENCY EVACUATION SIGN, SIGN TYPE E
F	MAXIMUM OCCUPANCY SIGN, SIGN TYPE F
G H1 H2 J1 J2 K	ROOM IDENTIFICATION SIGN, SIGN TYPE G, H1, H2, J1, J2, K
L	INTERNATIONAL SYMBOL OF ACCESSIBILITY
M	NO SMOKING SIGN, SIGN TYPE M
N	TWO-WAY COMMICATION - DO NOT USE ELEVATOR SIGN, SIGN TYPE N
S	STORAGE MAX LOAD SIGN 125 PSF MAX
T	ASSISTIVE LISTENING SYSTEM SIGNAGE AS REQUIRED BY 11B-216.10. REFERENCE APPLICABLE DETAIL ON SHEET TA7.01

ILLUMINATED EXIT SIGN

- EXIT SIGN - CEILING HUNG
- DIRECTION OF EGRESS
- F — EXIT SIGN - WALL HUNG
- DIRECTION OF EGRESS

ACCESSIBLE PATH OF TRAVEL INTO BUILDING

1. SIGNAGE SHALL BE PREPARED PER REQUIREMENTS OF 2022 CBC.

SIGNAGE LEGEND

1 A10.22 SIGNAGE PLAN - SECOND FLOOR 1/8" = 1'-0"

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	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

△	date	issue description

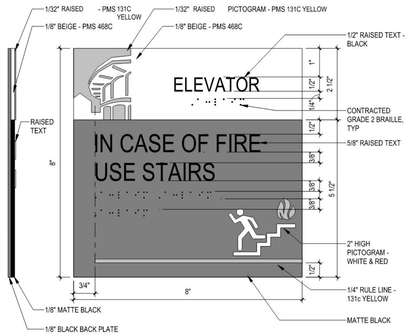
REGISTERED ARCHITECT
Cycle 5
RENEWAL DATE
STATE OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

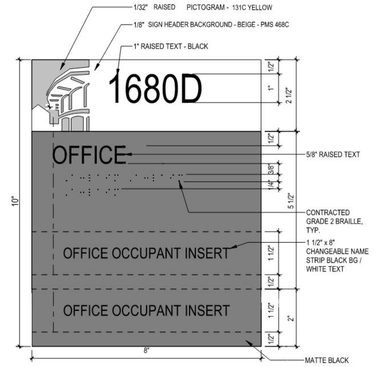
project number: 20-296
date: DECEMBER 17, 2024

SIGNAGE LOCATION PLAN - SECOND LEVEL

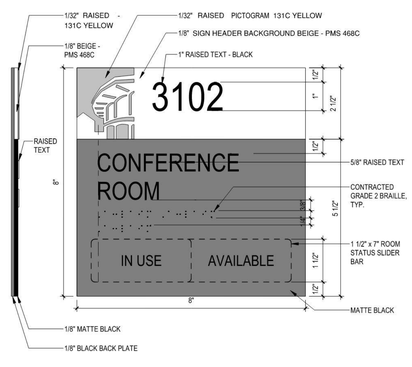
A10.22



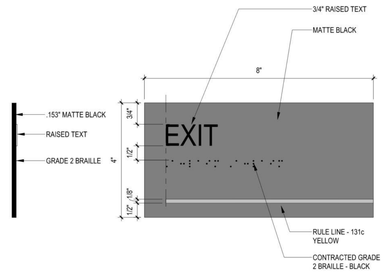
19 A10.23 N - DO NOT USE ELEVATOR SIGN N.T.S.



15 A10.23 J2 - ROOM IDENTIFICATION - 2 OCCUPANT N.T.S.

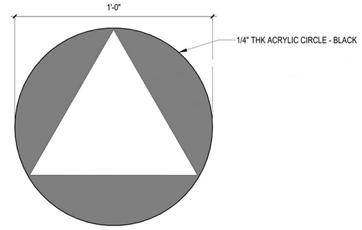


11 A10.23 G - CONFERENCE ROOM SIGNAGE N.T.S.



NOTES:
MOUNT PER SIGNAGE LOCATION LEGEND
- SEE FINISH PLANS FOR QUANTITY OF THIS SIGN REQUIRED.
- THE CHARACTERS AND BACKGROUND OF THE SIGN SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH AND CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND.

7 A10.23 C - TACTILE EXIT SIGN N.T.S.

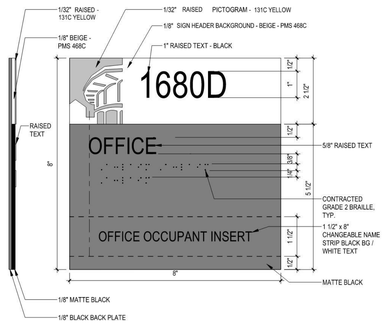


NOTES:
- SEE SIGNAGE LOCATION LEGEND THIS SHEET FOR ADDITIONAL NOTES AND MOUNTING HEIGHT
- SEE SIGNAGE PLANS FOR QUANTITY OF THIS SIGN REQUIRED.
- SIGN COLOR SHALL BE MIN. 70% CONTRAST TO DOOR COLOR.

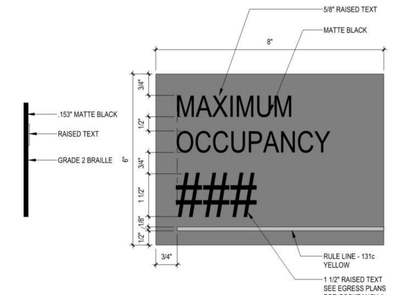
3 A10.23 A3 - DOOR MOUNTED SIGNAGE - ALL GENDER N.T.S.

NOTES:
- MOUNT ADJACENT TO ALL EXTERIOR DOORS AT 1'-8" ABOVE FINISH FLOOR FROM CENTER OF SIGN
- SEE GENERAL NOTES FOR MORE INFORMATION.

18 A10.23 M - NO SMOKING SIGN N.T.S.

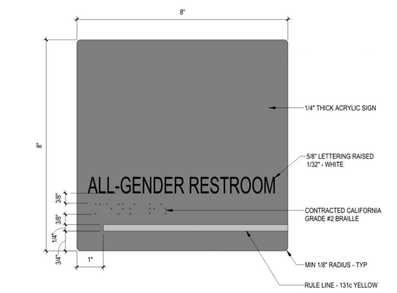


14 A10.23 J1 - ROOM IDENTIFICATION - 1 OCCUPANT N.T.S.



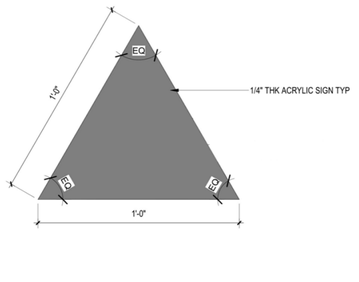
NOTES:
MOUNT PER SIGNAGE LOCATION LEGEND
- SEE SIGNAGE PLANS FOR QUANTITY OF THIS SIGN REQUIRED.
- THE CHARACTERS AND BACKGROUND OF THE SIGN SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH AND CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND.

10 A10.23 F - MAX OCCUPANCY SIGNAGE N.T.S.



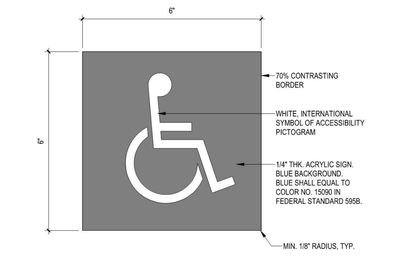
NOTES:
BRAILLE & CHARACTERS SHALL NOT BE IN PICTOGRAM FIELD - REFER TO PER CBC 11B-703.6
MOUNT SIGN ON THE WALL ADJACENT TO LATCH SIDE OF DOOR. WHERE THERE IS NO WALL SPACE ON LATCH SIDE OF DOOR, PLACE SIGNS ON NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT.
- SEE SIGNAGE LOCATION LEGEND THIS SHEET FOR ADDL NOTES AND MOUNTING HEIGHT

6 A10.23 B3 - WALL MOUNTED SIGNAGE - ALL GENDER N.T.S.



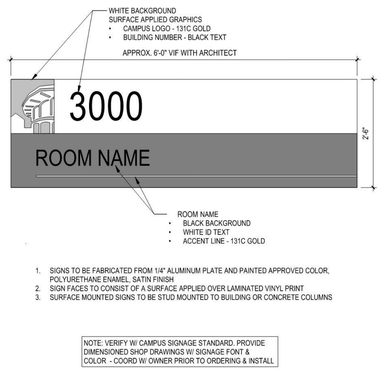
NOTES:
- SEE SIGNAGE LOCATION LEGEND THIS SHEET FOR ADDITIONAL NOTES AND MOUNTING HEIGHT
- SEE SIGNAGE PLANS FOR QUANTITY OF THIS SIGN REQUIRED.
- SIGN COLOR SHALL BE MIN. 70% CONTRAST TO DOOR COLOR.

2 A10.23 A2 - DOOR MOUNTED TOILET ROOM SIGN - MEN N.T.S.



NOTES:
MOUNT SIGN ON THE WALL ADJACENT TO LATCH SIDE OF DOOR, AT 60" MAX. ABOVE FINISH FLOOR TO CENTER OF SIGN. WHERE THERE IS NO WALL SPACE ON LATCH SIDE OF DOOR, PLACE SIGN ON NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT. WHERE INDICATED, MOUNT ON BOTH SIDES OF GLASS SIDELITE. PROVIDE SAME SIZE BLANK PLATE ON OPPOSITE SIDE OTHERWISE.
- SEE SIGNAGE PLANS FOR QUANTITY OF THIS SIGN REQUIRED.
- CHARACTERS AND BACKGROUND OF THE SIGN SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH AND CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND.

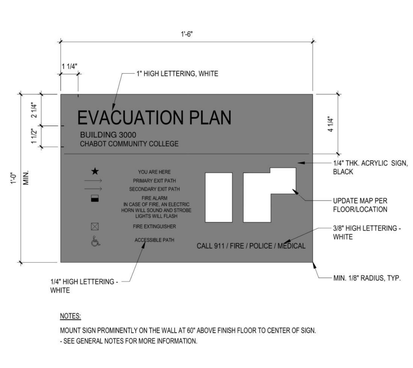
17 A10.23 L - INTERNATIONAL SYMBOL OF ACCESSIBILITY N.T.S.



1. SIGNS TO BE FABRICATED FROM 1/4" ALUMINUM PLATE AND PAINTED APPROVED COLOR, POLYURETHANE ENAMEL, SATIN FINISH
2. SIGN FACES TO CONSIST OF A SURFACE APPLIED OVER LAMINATED VINYL PRINT
3. SURFACE MOUNTED SIGNS TO BE STUD MOUNTED TO BUILDING OR CONCRETE COLUMNS

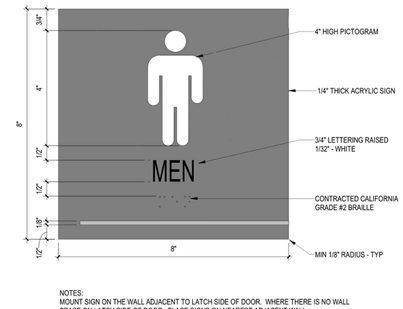
NOTE: VERIFY W/ CAMPUS SIGNAGE STANDARD. PROVIDE DIMENSIONED SHOP DRAWINGS W/ SIGNAGE FONT & COLOR - COORD W/ OWNER PRIOR TO ORDERING & INSTALL

13 A10.23 H2 - EXTERIOR ROOM IDENTIFICATION SIGN N.T.S.



NOTES:
MOUNT SIGN PROMINENTLY ON THE WALL AT 60" ABOVE FINISH FLOOR TO CENTER OF SIGN.
- SEE GENERAL NOTES FOR MORE INFORMATION.

9 A10.23 E - EMERGENCY EVACUATION PLAN N.T.S.



NOTES:
MOUNT PER SIGNAGE LOCATION LEGEND
- SEE SIGNAGE PLANS FOR QUANTITY OF THIS SIGN REQUIRED.
- THE CHARACTERS AND BACKGROUND OF THE SIGN SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH AND CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND.

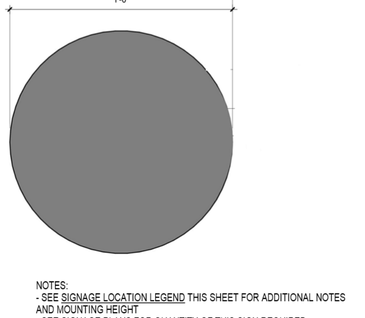
5 A10.23 B2 - WALL MOUNTED TOILET ROOM SIGN - MEN N.T.S.

NOTES:
MOUNT PER SIGNAGE LOCATION LEGEND
- SEE SIGNAGE PLANS FOR QUANTITY OF THIS SIGN REQUIRED.
- THE CHARACTERS AND BACKGROUND OF THE SIGN SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH AND CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND.

8 A10.23 D - TACTILE EXIT ROUTE SIGN N.T.S.

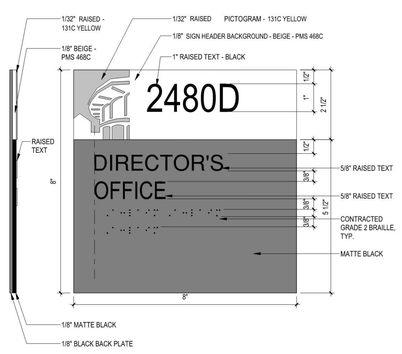
NOTES:
MOUNT SIGN ON THE WALL ADJACENT TO LATCH SIDE OF DOOR. WHERE THERE IS NO WALL SPACE ON LATCH SIDE OF DOOR, PLACE SIGNS ON NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT.
- SEE SIGNAGE LOCATION LEGEND THIS SHEET FOR ADDL NOTES AND MOUNTING HEIGHT
- SEE SIGNAGE PLANS FOR QUANTITY OF THIS SIGN REQUIRED.

4 A10.23 B1 - WALL MOUNTED TOILET ROOM SIGN - WOMEN N.T.S.

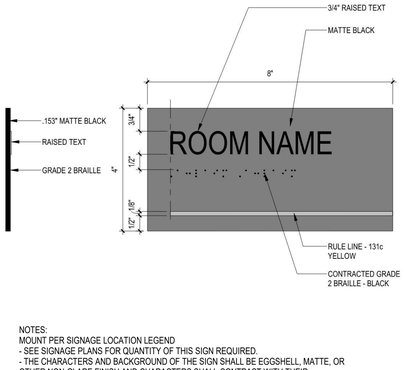


NOTES:
- SEE SIGNAGE LOCATION LEGEND THIS SHEET FOR ADDITIONAL NOTES AND MOUNTING HEIGHT
- SEE SIGNAGE PLANS FOR QUANTITY OF THIS SIGN REQUIRED.
- SIGN COLOR SHALL BE MIN. 70% CONTRAST TO DOOR COLOR.

1 A10.23 A1 - DOOR MOUNTED TOILET ROOM SIGN - WOMEN N.T.S.



16 A10.23 K - ROOM IDENTIFICATION SIGN N.T.S.



NOTES:
MOUNT PER SIGNAGE LOCATION LEGEND
- SEE SIGNAGE PLANS FOR QUANTITY OF THIS SIGN REQUIRED.
- THE CHARACTERS AND BACKGROUND OF THE SIGN SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH AND CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND.

12 A10.23 H1 - SECONDARY ROOM IDENTIFICATION SIGN N.T.S.

1. WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. WHERE PERMANENT IDENTIFICATION SIGNAGE IS PROVIDED FOR ROOMS AND SPACES THEY SHALL BE LOCATED ON THE APPROACH SIDE OF THE DOOR AS ONE ENTERS THE ROOM OR SPACE. SIGNS THAT IDENTIFY EXITS SHALL BE LOCATED ON THE APPROACH SIDE OF THE DOOR AS ONE EXITS THE ROOM OR SPACE.
2. ALL INTERIOR PLASTIC SIGNS SHALL BE 1/4" THICK MINIMUM, U.O.N.
3. CHARACTERS, PICTOGRAMS, AND BACKGROUND OF SIGN SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH AND CHARACTERS AND PICTOGRAMS SHALL CONTRAST WITH THEIR BACKGROUND.
4. CONTRACTED CALIFORNIA GRADE 2 BRAILLE SHALL BE USED WHENEVER BRAILLE SYMBOLS ARE SPECIFICALLY REQUIRED IN OTHER PORTIONS OF THESE STANDARDS. THE MINIMUM DOT HEIGHT AND DISTANCE BETWEEN DOTS IN THE SAME CELL AND BETWEEN ADJACENT CELLS ARE DESCRIBED BY CBC TABLE 11B-703.3.1 & FIGURE 11B-703.3.1.
5. ALL PLASTIC SIGN LETTERING TO BE RAISED 1/32" AND SHALL BE 5/8" MIN. TO 2" MAX. IN HEIGHT. USE LARGEST LETTER HEIGHT PRACTICAL. LETTER CHARACTERS TO BE UPPER CASE SANS-SERIF OR SIMPLE-SERIF.
6. VERIFY THE EXACT SIGN TEXT WITH THE OWNER PRIOR TO ORDERING.
7. ALL WALL-MOUNTED SIGNS ATTACHED TO MASONRY, PLASTER, OR CERAMIC TILE SHALL BE MECHANICALLY FASTENED WITH VANDALPROOF FASTENERS THROUGH WALL FINISH AND INTO SOLID WOOD OR METAL BACKING.
8. ALL INTERIOR WALL-MOUNTED SIGNS SECURED TO DRYWALL SHALL BE ADHESIVELY APPLIED.
9. ALL TACTICLE SIGNS SHALL BE FIELD INSPECTED AFTER INSTALLATION PER 11B-703.1.1.2.
10. TYPESTYLE: FRUTIER 55 ROMAN, U.O.N.
11. REFER TO SIGNAGE PLANS ON A10.21 AND A10.22.
12. ALL ARCHITECTURAL WAY FINDING AND BUILDING SIGNAGE CFCI U.O.N. PROVIDE SIGNAGE DESIGN SUBMITTAL TO ARCHITECT AND OWNER FOR REVIEW BEFORE FABRICATION OR INSTALLATION.

SIGNAGE GENERAL NOTES

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	2022.02.28	SCHEMATIC DESIGN

#	date	issue description

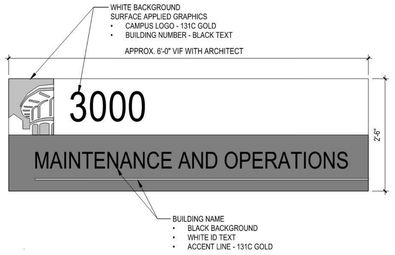
REGISTERED ARCHITECT C-31715 RENEWAL DATE OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: DECEMBER 17, 2024

STANDARD SIGNAGE DETAILS

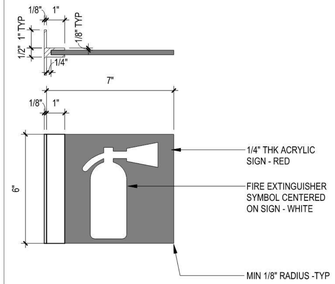
A10.23



1. SIGNS TO BE FABRICATED FROM 1/4" ALUMINUM PLATE AND PAINTED APPROVED COLOR, POLYURETHANE ENAMEL, SATIN FINISH
2. SIGN FACES TO CONSIST OF A SURFACE APPLIED OVER LAMINATED VINYL PRINT
3. SURFACE MOUNTED SIGNS TO BE STUD MOUNTED TO BUILDING OR CONCRETE COLUMNS

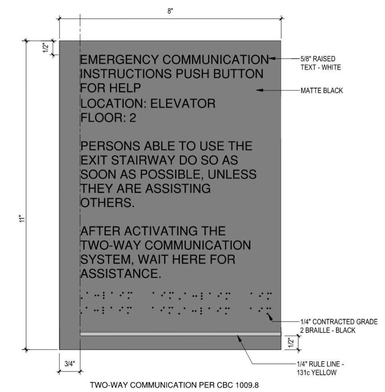
NOTE: VERIFY W/ CAMPUS SIGNAGE STANDARD. PROVIDE DIMENSIONED SHOP DRAWINGS W/ SIGNAGE FONT & COLOR - COORD W/ OWNER PRIOR TO ORDERING & INSTALL

5 A10.24 EXT. WALL MOUNTED SIGNAGE N.T.S.



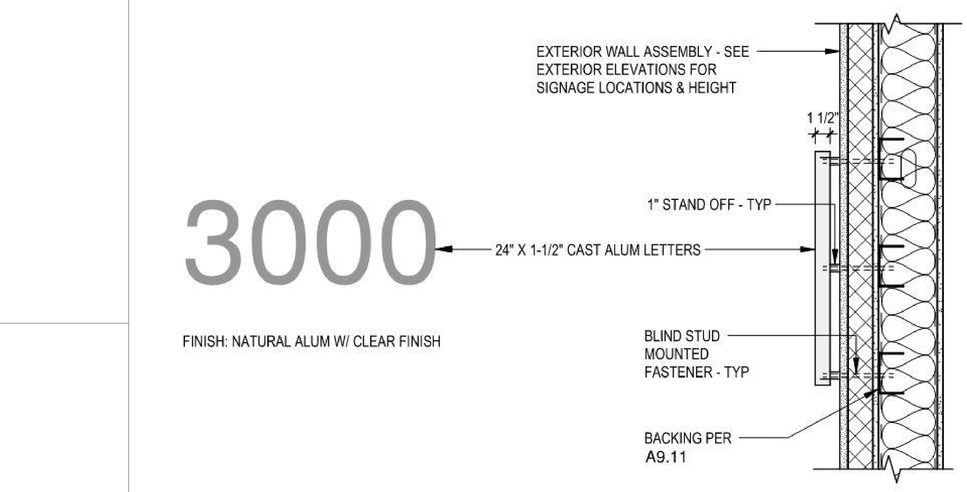
NOTES:
- MOUNT SIGN PROMINENTLY ON THE WALL AT 80" ABOVE FINISH FLOOR TO BOTTOM OF SIGN. CENTER ON CABINET BELOW. MECHANICALLY ATTACH SIGN TO WALL WITH (4) #6 1 1/2" SMS. PROVIDE BACKING PER 5A/A9.11.
- SEE GENERAL NOTES FOR MORE INFORMATION.
-FE SIGNS ARE NOT SHOWN ON SIGNAGE PLANS. VERIFY FINAL LOCATIONS UPON INSTALLATION OF FE CABINETS

3 A10.24 FEC-C - FIRE EXTINGUISHER SIGN N.T.S.



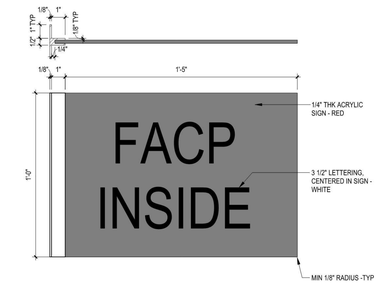
TWO-WAY COMMUNICATION PER CBC 1009.8

4 A10.24 N - 2 WAY COMMUNICATION N.T.S.



NOTE: VERIFY W/ CAMPUS SIGNAGE STANDARD. PROVIDE DIMENSIONED SHOP DRAWINGS W/ SIGNAGE FONT & COLOR - COORD W/ OWNER PRIOR TO ORDERING & INSTALL

2 A10.24 EXTERIOR WALL MOUNTED BLDG NUMBERS N.T.S.



NOTES:
- MOUNT SIGN PROMINENTLY ON THE WALL AT 80" ABOVE FINISH FLOOR TO BOTTOM OF SIGN. CENTER ON CABINET BELOW. MECHANICALLY ATTACH SIGN TO WALL WITH (4) #6 1 1/2" SMS. PROVIDE BACKING PER 5A/A9.11.
- SEE GENERAL NOTES FOR MORE INFORMATION.
-FACP & FIRE RISER SIGNS ARE NOT SHOWN ON SIGNAGE PLANS. VERIFY FINAL LOCATIONS UPON INSTALLATION OF FACP & FIRE RISER CABINETS

1 A10.24 P - FACP SIGNAGE N.T.S.

1. WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. WHERE PERMANENT IDENTIFICATION SIGNAGE IS PROVIDED FOR ROOMS AND SPACES THEY SHALL BE LOCATED ON THE APPROACH SIDE OF THE DOOR AS ONE ENTERS THE ROOM OR SPACE. SIGNS THAT IDENTIFY EXITS SHALL BE LOCATED ON THE APPROACH SIDE OF THE DOOR AS ONE EXITS THE ROOM OR SPACE.
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6. VERIFY THE EXACT SIGN TEXT WITH THE OWNER PRIOR TO ORDERING.
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11. REFER TO SIGNAGE PLANS ON A10.21 AND A10.22.
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SIGNAGE GENERAL NOTES N.T.S.

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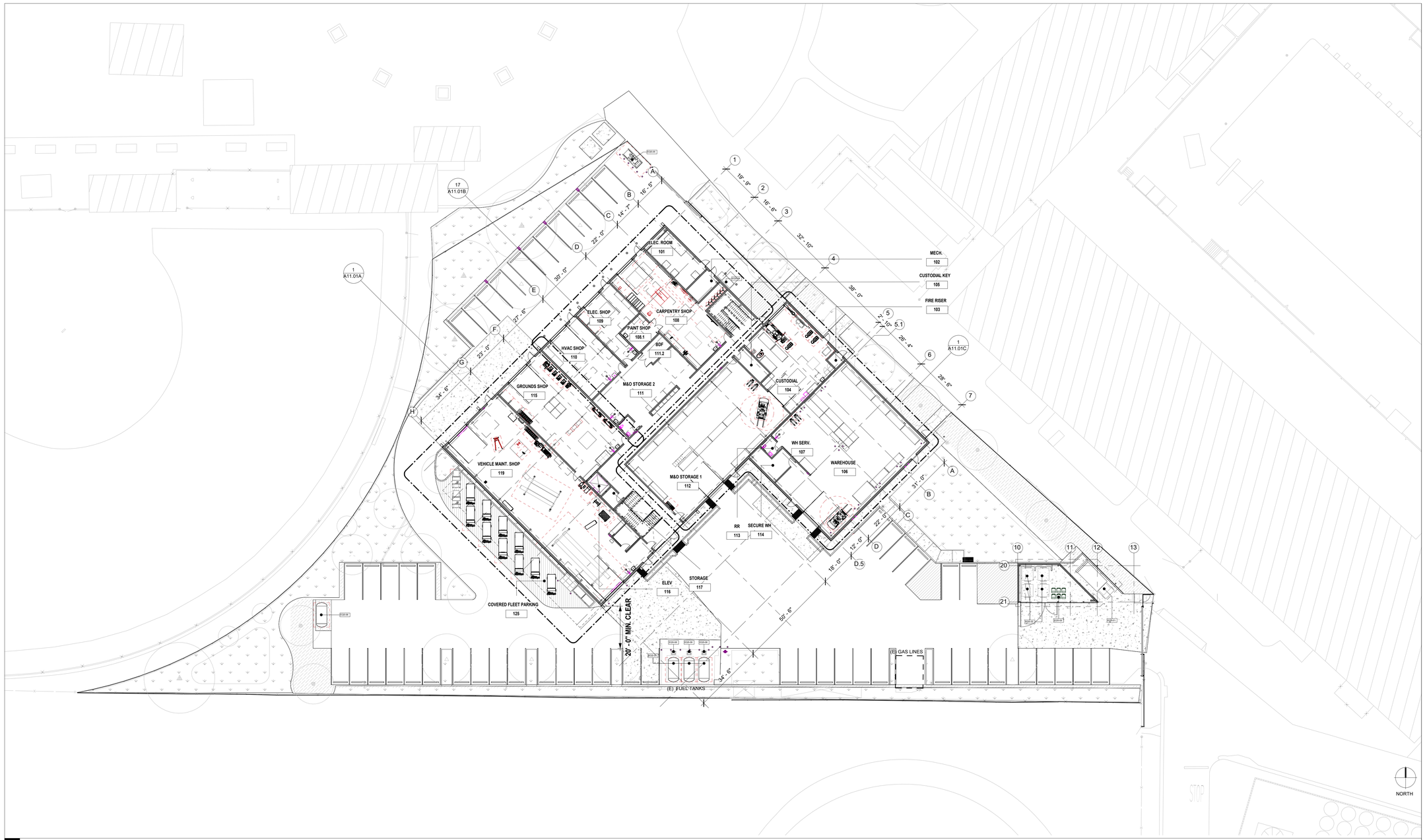
STANDARD SIGNAGE DETAILS

A10.24



1 A11.01 EQUIPMENT FLOOR PLAN - GROUND LEVEL

1" = 20'-0"

GROUND FLOOR	
EQS-01	TRASH COMPACTOR
EQS-02	DUMPSTER
EQS-03	TRASH/RECYCLING CONTAINER
EQS-04	DUST COLLECTOR
EQS-05	GENERATOR
EQS-06	PROPANE TANK
EQS-07	FUEL TANK
EQS-08	FUEL PUMP
EQS-09	FUEL MASTER

NOTE: SEE A11.41 FOR COMPLETED EQUIPMENT SCHEDULE

EQUIPMENT LEGEND

0000 KEYNOTE TAG

KEYNOTE LEGEND

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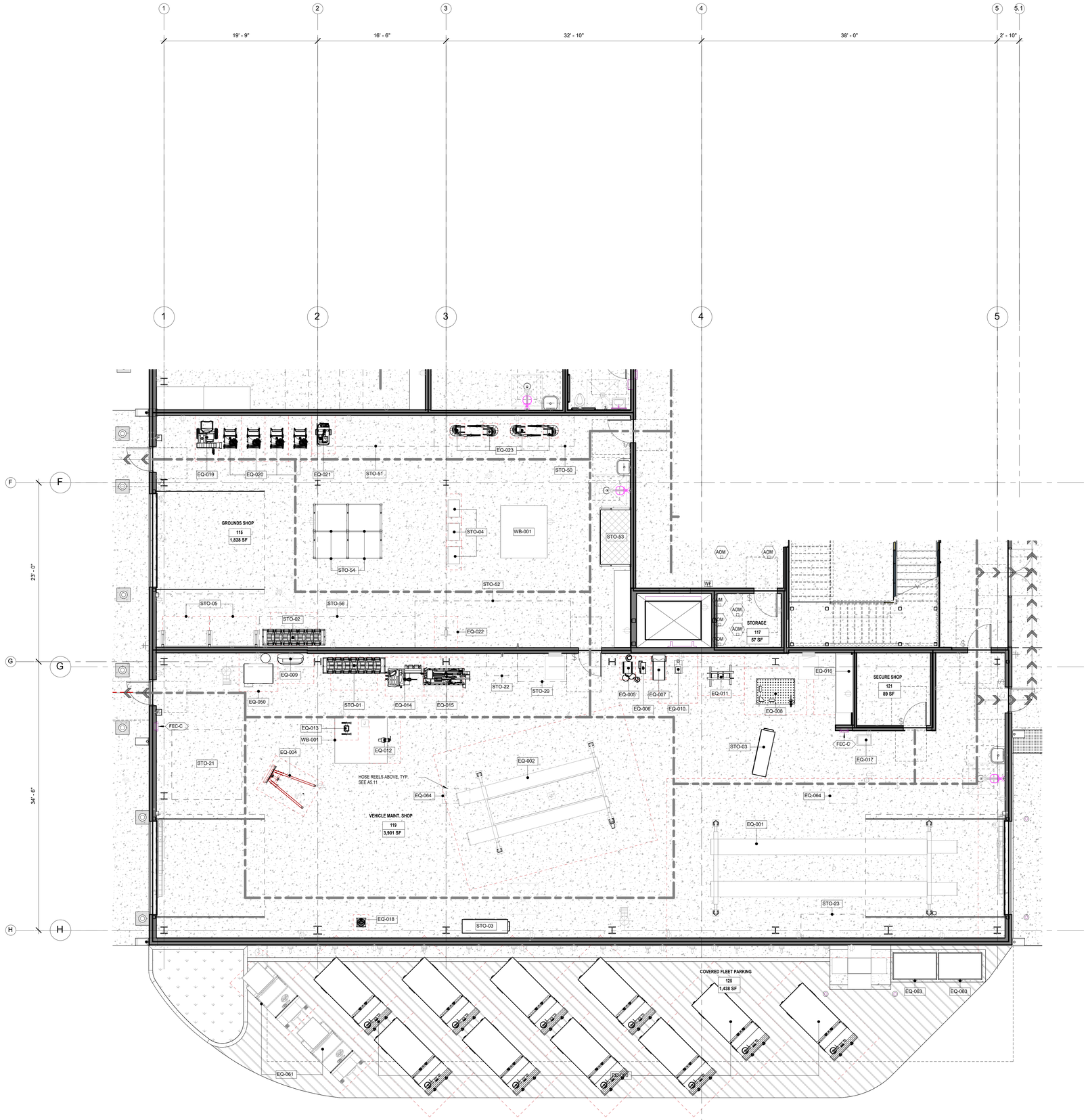
OVERALL EQUIPMENT PLAN - GROUND LEVEL

A11.01



1 EQUIPMENT FLOOR PLAN - GROUND LEVEL - SECTOR 1

3/16" = 1'-0"

115 GROUNDS SHOP	
EQ-019	BLOWER - PUSH
EQ-020	EDGERS - WALK-BEHIND
EQ-021	PRESSURE WASHER
EQ-022	JACK HAMMER W/ ATTACHMENTS
EQ-023	BACKPACK BLOWER
STO-02	STORAGE - TIRE RACK
STO-04	TOOL CHEST / STEEL /AUTOMATIVE
STO-05	STORAGE - PIPE / CONDUIT HORIZONTAL RACK
STO-50	RACK - BACKPACK BLOWER
STO-51	RACK - CHAINSAW & HEDGE TRIMMER
STO-52	RACK - WALL - HAND TOOL
STO-53	RACK - STRING TRIMMER & POLE SAW
STO-54	RACK - GROWING TRAYS
STO-56	RACK - HAND-HELD BLOWER
WB-001	WORK BENCH

119 VEHICLE MAINT. SHOP	
EQ-001	4 POST LIFT - LARGE VEHICLES
EQ-002	4 POST LIFT - SMALL VEHICLES
EQ-004	ENGINE PULLER / HOIST
EQ-005	WELDER (STICK)
EQ-006	PLASMA CUTTER
EQ-007	WELDER (MIG)
EQ-008	WELDING TABLE
EQ-009	PARTS WASHER
EQ-010	DRILL PRESS
EQ-011	HYDRAULIC PRESS BENCH
EQ-012	BENCH VISE
EQ-013	BENCH GRINDER
EQ-014	WHEEL BALANCER
EQ-015	TIRE CHANGING MACHINE
EQ-016	DISC BRAKE LATHE
EQ-017	WATER DISTILLER
EQ-018	WASTE OIL
EQ-050	BEAD BLAST CABINET
EQ-064	HOSE REELS
STO-01	STORAGE - TIRE RACK
STO-03	TOOL CHEST / STEEL / AUTOMATIVE
STO-20	STORAGE - ENGINE OIL
STO-21	STORAGE - SPILL CONTAINMENT
STO-22	STORAGE - FILTER / OIL / BREAK PARTS
STO-23	STORAGE - AIR FILTER
WB-001	WORK BENCH

125 COVERED FLEET PARKING	
EQ-060	ELECTRIC CUSTODIAL CART
EQ-061	GOLF CART
EQ-062	AIR COMPRESSOR
EQ-063	OIL LOCKER CONTAINER

EMPLOYEE COMMON CIRCULATION

EMPLOYEE ACCESSIBLE CIRCULATION
CLEAR WIDTH PATH PER CBC 11B-403.5.1

NOTE: SEE A10.41 FOR COMPLETED EQUIPMENT SCHEDULE & A10.42 FOR COMPLETED STORAGE SCHEDULE

EQUIPMENT & STORAGE LEGEND

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	2022.02.28	SCHEMATIC DESIGN

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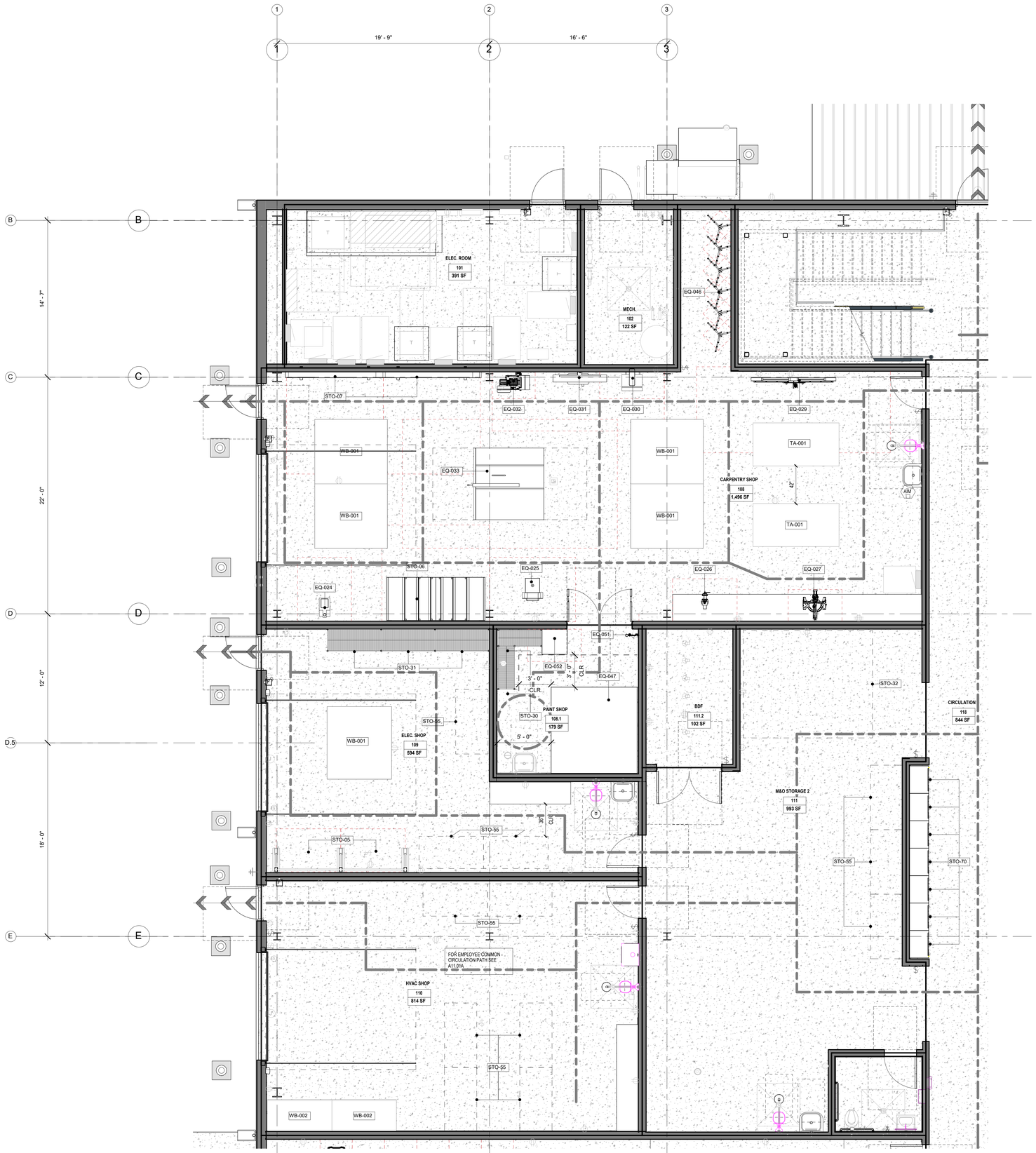
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: DECEMBER 17, 2024

EQUIPMENT ENLARGED PLAN - GROUND LEVEL - SECTOR 1

A11.01A



108
CARPENTRY SHOP

EQ-024	DRILL PRESS
EQ-025	SPINDLE SANDER
EQ-026	BENCH VISE
EQ-027	12" MITER SAW
EQ-029	PANEL SAW
EQ-030	BAND SAW
EQ-031	(PLANER) / JOINTER
EQ-032	12" DISC / 6" BELT SANDER
EQ-033	10" TABLE SAW
EQ-046	FREE STANDING LIGHT SYSTEM
STO-06	STORAGE - PLYWOOD STORAGE
STO-07	STORAGE - LUMBER STORAGE
TA-001	PLAN REVIEW TABLE
WB-001	WORK BENCH

108.1
PAINT SHOP

EQ-047	PAINT BOOTH
EQ-051	PAINT GUN - MOVILE
EQ-052	PAINT SHAKER
STO-30	STORAGE - WIRED SHELVING

109
ELEC. SHOP

STO-05	STORAGE - PIPE / CONDUIT HORIZONTAL RACK
STO-31	STORAGE - WIRED SHELVING
STO-55	RACK - BIN
WB-001	WORK BENCH

110
HVAC SHOP

STO-55	RACK - BIN
WB-002	WORK BENCH

111
M&O STORAGE 2

STO-32	STORAGE -PAINT STORAGE - 12X10
STO-55	RACK - BIN

118
CIRCULATION

STO-70	UNIFORM LOCKERS

EMPLOYEE COMMON CIRCULATION

EMPLOYEE ACCESSIBLE CIRCULATION
CLEAR WIDTH PATH PER CBC 11B-403.5.1

NOTE: SEE A10.41 FOR COMPLETED EQUIPMENT SCHEDULE & A10.42 FOR COMPLETED STORAGE SCHEDULE

NORTH

1/4" = 1'-0"

EQUIPMENT & STORAGE LEGEND

17 SECTION
EQUIPMENT FLOOR PLAN - GROUND LEVEL - SECTOR 2

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	2022.02.28	SCHEMATIC DESIGN

#	date	issue description

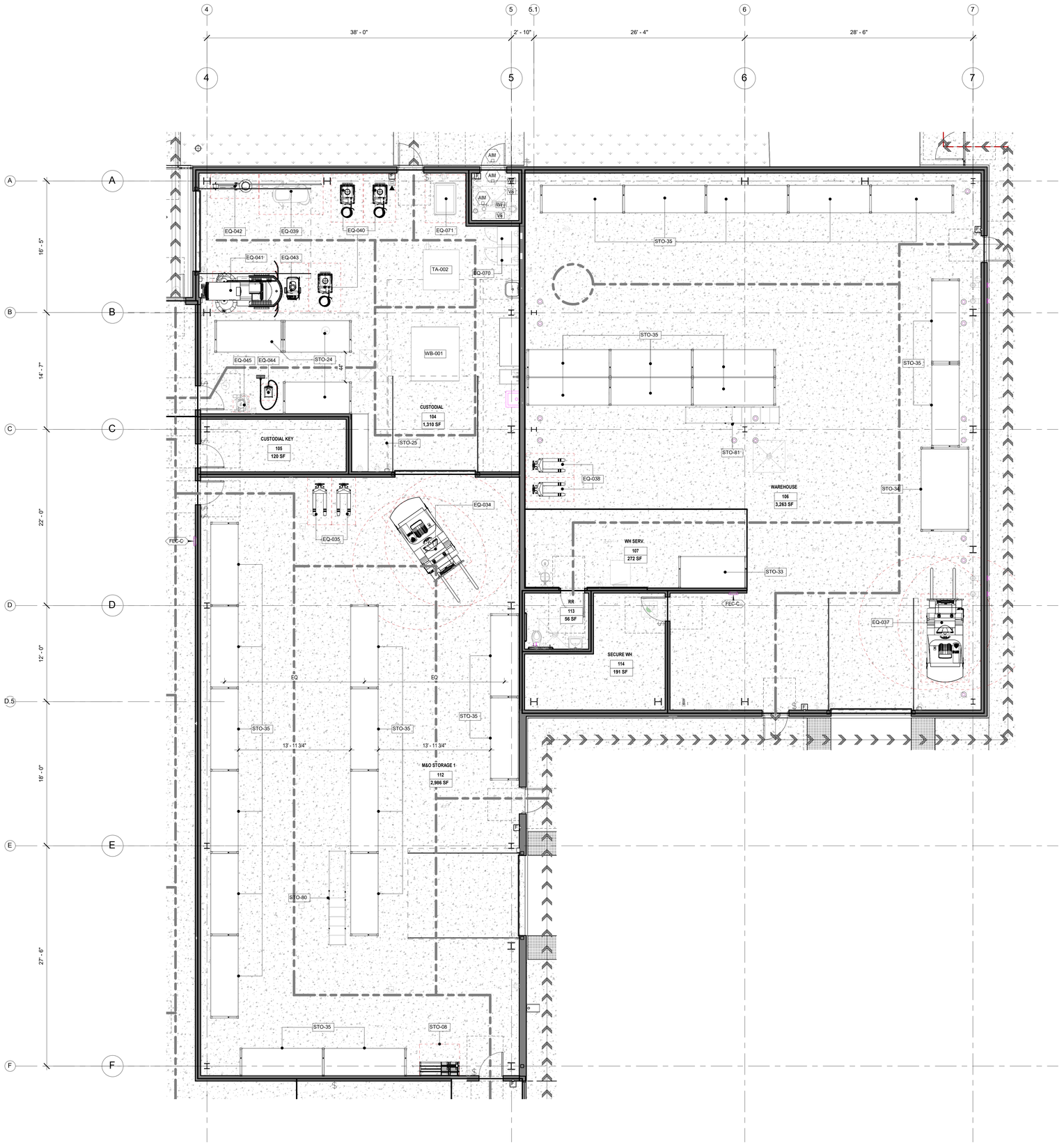
REGISTERED ARCHITECT C-31715 RENEWAL DATE STATE OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: DECEMBER 17, 2024

EQUIPMENT ENLARGED PLAN - GROUND LEVEL - SECTOR 2

A11.01B



NORTH

1 EQUIPMENT FLOOR PLAN - GROUND LEVEL - SECTOR 3 — 3/16" = 1'-0"

104 CUSTODIAL	
EQ-039	AUTOMATIC WALK-BEHIND SCRUBBER
EQ-040	CARPET EXTRACTOR MACHINE
EQ-041	AUTOMATIC RIDE-ON SCRUBBER
EQ-042	PROPANE BUFFER
EQ-043	GLASS CLEANING MACHINE
EQ-044	STEAM CLEANING MACHINE
EQ-045	VACUUM
EQ-070	COMMERCIAL WASHER/DRYER COMBO
EQ-071	HAMPER
STO-24	STORAGE - CHEMICAL AND DRY STORAGE
STO-25	STORAGE - CHAIR & TABLE STORAGE
TA-002	FOLDING / PACKING TABLE
WB-001	WORK BENCH

106 WAREHOUSE	
EQ-037	FORKLIFT (ELECTRIC)
EQ-038	PALLET JACK
STO-34	STORAGE - MANUAL MATERIAL HANDELING
STO-35	STORAGE - PALLET RACK
STO-81	MOBILE STAIRCASE
TA-001	PLAN REVIEW TABLE

107 WH SERV.	
STO-33	STORAGE - CHEMICAL AND DRY STORAGE

112 M&O STORAGE 1	
EQ-034	FORKLIFT (ELECTRIC)
EQ-035	HAND PALLET TRUCKS
STO-08	STORAGE - REEL RACK
STO-35	STORAGE - PALLET RACK
STO-80	MOBILE STAIRCASE

EMPLOYEE COMMON CIRCULATION

EMPLOYEE ACCESSIBLE CIRCULATION
CLEAR WIDTH PER CBC 11B-403.5.1

NOTE: SEE A10.41 FOR COMPLETED EQUIPMENT SCHEDULE & A10.42 FOR COMPLETED STORAGE SCHEDULE

EQUIPMENT & STORAGE LEGEND

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SS ☑ FLS ☑ ACS ☑
DATE: 2/19/2025

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CHABOT COLLEGE

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CHABOT COLLEGE
25555 HESPERIAN BLVD
HAYWARD, CA 94612

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2	2024.12.17	DSA PC2
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	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

△	date	issue description

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OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
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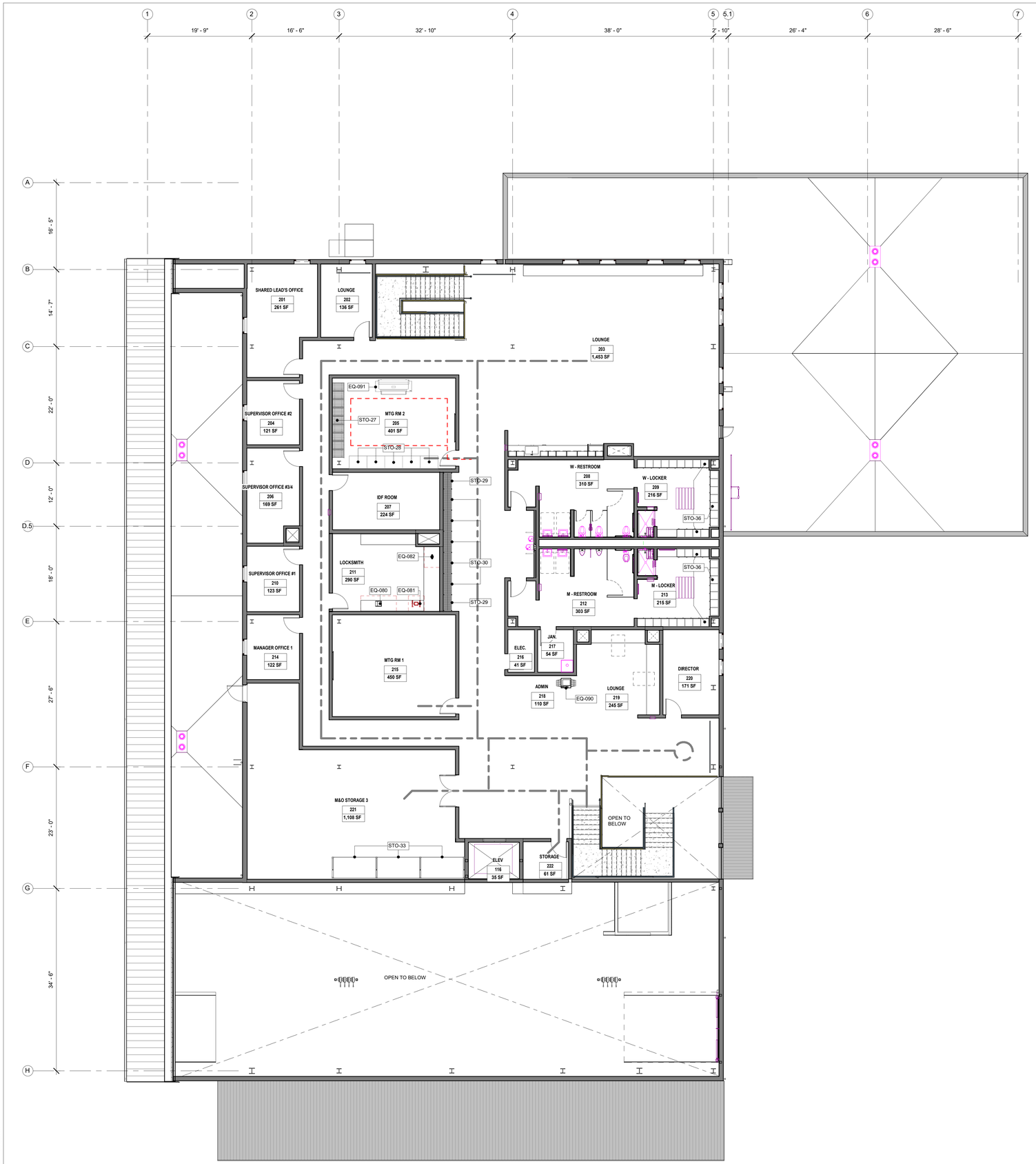
EQUIPMENT ENLARGED PLAN - GROUND LEVEL - SECTOR 3

A11.01C



205 MTG RM 2	
EQ-091	PLOTTER
STO-27	STORAGE - DRAWING HANDING RACK
STO-28	STORAGE - FLAT FILE CABINET_24" x 36"
209 W - LOCKER	
STO-36	LOCKER
211 LOCKSMITH	
EQ-080	CODE MAX
EQ-081	BENCH GRINDER
EQ-082	KEY MACHINE
213 M - LOCKER	
STO-36	LOCKER
218 ADMIN	
EQ-090	COPIER
221 M&O STORAGE 3	
STO-33	STORAGE - CHEMICAL AND DRY STORAGE

NORTH

EMPLOYEE COMMON CIRCULATION

EMPLOYEE ACCESSIBLE CIRCULATION
CLEAR WIDTH PATH PER CBC 11B-403.5.1

NOTE: SEE A10.41 FOR COMPLETED EQUIPMENT SCHEDULE & A10.42 FOR COMPLETED STORAGE SCHEDULE

1 EQUIPMENT FLOOR PLAN - SECOND LEVEL — 1/8" = 1'-0"

EQUIPMENT & STORAGE LEGEND

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EQUIPMENT PLAN - SECOND LEVEL

A11.02

EQUIPMENT SCHEDULE

TAG ID	RM #	ROOM NAME	USER GROUP	CATEGORY	LOCATION	DESCRIPTION	MANUFACTURER	MODEL	VOLTS	AMPS	PHASE	OUTLET TYPE	HARD-WIRE	EMERGENCY POWER	FIXED ANCHOR	APPROX. WEIGHT	QTY	STATUS	NOTES
GROUND FLOOR																			
EQS-01			SITE	VEHICLE / EQUIPMENT	YARD	TRASH COMPACTOR	WASTEEQUIP		208	FLA 15			YES	NO	SEE (1/S5.05)	9,500#	1	EXISTING	ROLL-OFF COMPACTOR - PROVIDE 2 FIXED SKIDS AND 2 ROLLERS TO PREVENT SLIDING WHILE STATIONARY
EQS-04			SITE	UTILITY	M&O YARD	DUST COLLECTOR	MASTER MACHINERY	M1DC	208	125	1		YES	NO	SEE (7/M6.04)	2,370#	1	NEW	
EQS-05			SITE	UTILITY	M&O YARD	GENERATOR	KOHLER	100REOZJF				N/A	N/A	N/A	SEE (3/E7.01)	6004#	1	NEW	
EQS-06			SITE	STORAGE	YARD	PROPANE TANK	BALDOR		208	9	1		YES	YES	SEE (12/S4.01)	3,904#	1	EXISTING	NIS, COORDINATED E-POWER
EQS-07			SITE	STORAGE	M&O YARD	FUEL TANK							YES	YES	N/A	N/A	3	EXISTING	NIS, COORDINATED E-POWER
EQS-08			SITE	VEHICLE / EQUIPMENT	M&O YARD	FUEL PUMP								YES	N/A	N/A	2	EXISTING	NIS, COORDINATED E-POWER
EQS-09			SITE	VEHICLE / EQUIPMENT	M&O YARD	FUEL MASTER								YES	N/A	N/A	1	EXISTING	NIS, COORDINATED E-POWER
104																			
EQ-039	104	CUSTODIAL	CUSTODIAL	VEHICLE / EQUIPMENT	CUSTODIAL	AUTOMATIC WALK-BEHIND SCRUBBER			208	15	1	N/A	N/A	N/A	N/A	N/A	1	EXISTING	PORTABLE
EQ-040	104	CUSTODIAL	CUSTODIAL	VEHICLE / EQUIPMENT	CUSTODIAL	CARPET EXTRACTOR MACHINE	CONVENTIONAL		120	15		N/A	N/A	N/A	N/A	N/A	3	EXISTING	PORTABLE
EQ-041	104	CUSTODIAL	CUSTODIAL	VEHICLE / EQUIPMENT	CUSTODIAL	AUTOMATIC RIDE-ON SCRUBBER	TRIDENT		208	15	1	N/A	N/A	N/A	N/A	N/A	1	EXISTING	PORTABLE
EQ-042	104	CUSTODIAL	CUSTODIAL	VEHICLE / EQUIPMENT	CUSTODIAL	PROPANE BUFFER			N/A	N/A		N/A	N/A	N/A	N/A	N/A	1	EXISTING	PORTABLE
EQ-043	104	CUSTODIAL	CUSTODIAL	VEHICLE / EQUIPMENT	CUSTODIAL	GLASS CLEANING MACHINE	UNGER		120	15		N/A	N/A	N/A	N/A	N/A	1	EXISTING	PORTABLE
EQ-044	104	CUSTODIAL	CUSTODIAL	TOOLS	CUSTODIAL	STEAM CLEANING MACHINE			120	20		N/A	N/A	N/A	N/A	N/A	1	NEW	PORTABLE
EQ-045	104	CUSTODIAL	CUSTODIAL	TOOLS	CUSTODIAL	VACUUM			120	15		N/A	N/A	N/A	N/A	N/A	1	NEW	PORTABLE
EQ-070	104	CUSTODIAL	CUSTODIAL	VEHICLE / EQUIPMENT	CUSTODIAL	COMMERCIAL WASHER/DRYER COMBO	CROSSOVER 2.0	56HA94			1		N/A	N/A	N/A	N/A	2	NEW	
EQ-071	104	CUSTODIAL	CUSTODIAL	STORAGE	CUSTODIAL	HAMPER	ULINE CANVAS BASKET TRUCK		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	NEW	48" X 38" X 37"
106																			
EQ-037	106	WAREHOUSE	WAREHOUSE	VEHICLE / EQUIPMENT	WAREHOUSE	FORKLIFT (ELECTRIC)	CLARK		480	20	3				N/A	N/A	1	EXISTING	
EQ-038	106	WAREHOUSE	WAREHOUSE	VEHICLE / EQUIPMENT	WAREHOUSE	PALLET JACK			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2	EXISTING	
108																			
EQ-024	108	CARPENTRY SHOP	M&O	TOOLS	M&O SHOP	DRILL PRESS	JET	JDP-20VS-1	120	25	1		NO	NO	SEE (15/S4.01)	780#	1	NEW	
EQ-025	108	CARPENTRY SHOP	M&O	TOOLS	M&O SHOP	SPINDLE SANDER	JET	JBOS-5	120	3	1				N/A	N/A	1	NEW	
EQ-026	108	CARPENTRY SHOP	M&O	TOOLS	M&O SHOP	BENCH VISE	MILTON	W/PIPE HOLDER	N/A	N/A	1		NO	NO	N/A	N/A	1	NEW	
EQ-027	108	CARPENTRY SHOP	M&O	TOOLS	M&O SHOP	12" MITER SAW	RIGID	R4222	120	15	1		NO	NO	N/A	N/A	1	NEW	
EQ-029	108	CARPENTRY SHOP	M&O	TOOLS	M&O SHOP	PANEL SAW	SAFETY SPEED	H4	120	15	1	N/A	NO	NO	SEE (15/S4.01)	< 400#	1	NEW	
EQ-030	108	CARPENTRY SHOP	M&O	TOOLS	M&O SHOP	BAND SAW	JET	JWBS-20-3	208	12	1		NO	NO	SEE (15/S4.01)	< 800#	1	NEW	
EQ-031	108	CARPENTRY SHOP	M&O	TOOLS	M&O SHOP	(PLANER) / JOINTER	JET	JWP-208-1	208	14	1		NO	NO	SEE (16/S4.01)	640#	1	NEW	
EQ-032	108	CARPENTRY SHOP	M&O	TOOLS	M&O SHOP	12" DISC / 6" BELT SANDER	JET	JSG-6DC	115-230	30-15	1				N/A	N/A	1	NEW	
EQ-033	108	CARPENTRY SHOP	M&O	TOOLS	M&O SHOP	10" TABLE SAW	SAW STOP	ICS73230-36	208	18	1		YES	NO	SEE (15/S4.01)	< 800#	1	NEW	
EQ-046	108	CARPENTRY SHOP	GENERAL	UTILITY	M&O SHOP	FREE STANDING LIGHT SYSTEM									N/A	N/A	6	EXISTING	
108.1																			
EQ-047	108.1	PAINT SHOP	M&O	TOOLS	PAINT SHOP	PAINT BOOTH	EPTEX COATINGS	8CPPSEBSFB102519	230		3				SEE (15/S4.01)(7/S5.05	< 700#	1	NEW	
EQ-051	108.1	PAINT SHOP	M&O	VEHICLE / EQUIPMENT	PAINT SHOP	PAINT GUN - MOBILE									N/A	N/A	1	EXISTING	
EQ-052	108.1	PAINT SHOP	M&O	TOOLS	PAINT SHOP	PAINT SHAKER					1				N/A	N/A	1	EXISTING	
112																			
EQ-034	112	M&O STORAGE 1	M&O	VEHICLE / EQUIPMENT	M&O STORAGE	FORKLIFT (ELECTRIC)	???	CHARGER	208	20			YES	NO	N/A	N/A	1	EXISTING	
EQ-035	112	M&O STORAGE 1	M&O	VEHICLE / EQUIPMENT	M&O STORAGE	HAND PALLET TRUCKS			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2	NEW	
115																			
EQ-019	115	GROUNDS SHOP	GROUNDS	VEHICLE / EQUIPMENT	GROUNDS SHOP	BLOWER - PUSH	BILLY GOATS	QB884H	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	EXISTING	
EQ-020	115	GROUNDS SHOP	GROUNDS	VEHICLE / EQUIPMENT	GROUNDS SHOP	EDGERS - WALK-BEHIND	McLANE		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4	EXISTING	
EQ-021	115	GROUNDS SHOP	GROUNDS	VEHICLE / EQUIPMENT	GROUNDS SHOP	PRESSURE WASHER	GOODWAY		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	EXISTING	
EQ-022	115	GROUNDS SHOP	GROUNDS	VEHICLE / EQUIPMENT	GROUNDS SHOP	JACK HAMMER W/ ATTACHMENTS	BOSCH	60LB	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	EXISTING	
EQ-023	115	GROUNDS SHOP	GROUNDS	VEHICLE / EQUIPMENT	GROUNDS SHOP	BACKPACK BLOWER	REDMAX	EBZ8500	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4	EXISTING	
119																			
EQ-001	119	VEHICLE MAINT. SHOP	MECH	TOOLS	VEHICLE MAINTENANCE SHOP	4 POST LIFT - LARGE VEHICLES	JOHN BEAN	14000 SERIES	208	26			YES	NO	SEE (14/S4.01)	< 16,000#	1	NEW	
EQ-002	119	VEHICLE MAINT. SHOP	MECH	TOOLS	VEHICLE MAINTENANCE SHOP	4 POST LIFT - SMALL VEHICLES	BENDPAK	HDS-14	208		1		YES	NO	SEE (14/S4.01)	2,735#	1	NEW	ROLLING DOCKS NEEDED
EQ-004	119	VEHICLE MAINT. SHOP	GROUNDS	VEHICLE / EQUIPMENT	VEHICLE MAINTENANCE SHOP	ENGINE PULLER / HOIST	AMERICAN HYDRAULICS	FC10000 - 1 TON	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	EXISTING	72" H, 38" W, 53" D
EQ-005	119	VEHICLE MAINT. SHOP	MECH	TOOLS	WELDING SHOP	WELDER (STICK)	LINCOLN ELECTRIC	K1053-9	480	250	3			NO	N/A	N/A	1	NEW	
EQ-006	119	VEHICLE MAINT. SHOP	MECH	TOOLS	WELDING SHOP	PLASMA CUTTER	THERMODYNAMICS	CUTMASTER 52	208					NO	N/A	N/A	1	EXISTING	
EQ-007	119	VEHICLE MAINT. SHOP	MECH	TOOLS	WELDING SHOP	WELDER (MIG)	LINCOLN	K2185-1	115	20	1			NO	N/A	N/A	1	EXISTING	
EQ-008	119	VEHICLE MAINT. SHOP	MECH	TOOLS	WELDING SHOP	WELDING TABLE	MILLER ELECTRIC	951793	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	NEW	
EQ-009	119	VEHICLE MAINT. SHOP	MECH	TOOLS	VEHICLE MAINTENANCE SHOP	PARTS WASHER	PUREWASH	KT 5000	120	10	1		20	NO	N/A	N/A	1	EXISTING	
EQ-010	119	VEHICLE MAINT. SHOP	MECH	TOOLS	VEHICLE MAINTENANCE SHOP	DRILL PRESS	CRAFTSMAN	20 ???	120	15	1		20	NO	SEE (15/S4.01)	< 800#	1	EXISTING	
EQ-011	119	VEHICLE MAINT. SHOP	MECH	TOOLS	VEHICLE MAINTENANCE SHOP	HYDRAULIC PRESS BENCH	SNAP ON	CG170HY	N/A	N/A				NO	SEE (15/S4.01)	< 800#	1	EXISTING	
EQ-012	119	VEHICLE MAINT. SHOP	MECH	TOOLS	VEHICLE MAINTENANCE SHOP	BENCH VISE	HOLLANDS	53 1/2H	N/A	N/A				NO	N/A	N/A	1	EXISTING	
EQ-013	119	VEHICLE MAINT. SHOP	MECH	TOOLS	VEHICLE MAINTENANCE SHOP	BENCH GRINDER	DAYTON	12707W	115	12.8	1		20	NO	N/A	N/A	1	EXISTING	
EQ-014	119	VEHICLE MAINT. SHOP	MECH	TOOLS	VEHICLE MAINTENANCE SHOP	WHEEL BALANCER	COATS	1500-3D	208					NO	SEE (15/S4.01)	680#	1	NEW	
EQ-015	119	VEHICLE MAINT. SHOP	MECH	TOOLS	VEHICLE MAINTENANCE SHOP	TIRE CHANGING MACHINE	COATS	APX90A	115	30	1			NO	SEE (15/S4.01)	1,510#	1	NEW	
EQ-016	119	VEHICLE MAINT. SHOP	MECH	TOOLS	VEHICLE MAINTENANCE SHOP	DISC BRAKE LATHE	AMMCO	4000	115	15	1		20	NO	SEE (15/S4.01)	< 800#	1	EXISTING	
EQ-017	119	VEHICLE MAINT. SHOP	MECH	TOOLS	VEHICLE MAINTENANCE SHOP	WATER DISTILLER	DURASTILL	30J4	120	12.5	1		20	NO	N/A	N/A	1	NEW	
EQ-018	119	VEHICLE MAINT. SHOP	MECH	TOOLS	VEHICLE MAINTENANCE SHOP	WASTE OIL	LINCOLN		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	EXISTING	
EQ-050	119	VEHICLE MAINT. SHOP	M&O	VEHICLE / EQUIPMENT	PAINT SHOP	BEAD BLAST CABINET	ALC	40411	120	<5			NO		N/A	N/A	1	EXISTING	NOT TO BE REUSED IN NEW PROJECT
EQ-064	119	VEHICLE MAINT. SHOP	MECH	VEHICLE / EQUIPMENT	VEHICLE MAINTENANCE SHOP	HOSE REELS	GRACO	XDX SERIES							SEE (15/S5.01)	< 400#	2	NEW	WITH ENCLOSURE KIT
125																			
EQ-060	125	COVERED FLEET PARKING	CUSTODIAL	VEHICLE / EQUIPMENT	COVERED FLEET PARKING	ELECTRIC CUSTODIAL CART	BIGFOOT	B5-440-48	120	20-25 EA.	1		20	NO	N/A	N/A	10	EXISTING	OTHER: JOHN DEER PRO GATOR G138
EQ-061	125	COVERED FLEET PARKING	M&O	VEHICLE / EQUIPMENT	YARD	GOLF CART	CUSHMAN CARTS, EZ GO, TAYLOR DUNN	CUSHMAN CARTS, HAULER 800X		20-25 EA.					N/A	N/A	2	EXISTING	
EQ-062	125	COVERED FLEET PARKING	???	VEHICLE / EQUIPMENT	YARD	AIR COMPRESSOR	INGERSOLL RAND	2545K10-P	480	12.5	3				SEE (15/S5.01)	< 800#	1	EXISTING	
EQ-063	125	COVERED FLEET PARKING	SITE	STORAGE	M&O YARD	OIL LOCKER CONTAINER	ULTRATECH-Ultra-Hard Top Spill Pallet	P2 Plus	N/A	N/A	N/A	N/A	N/A	N/A	SEE 8/S5.05	< 400#	2	NEW	2 DRUM STORAGE. RECOMMEND 9613 WITH RAMP (0676)
300																			
EQS-02	300	TRASH ENCLOSURE	SITE	WASTE MANAGEMENT	M&O YARD	DUMPSTER	???	???	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4	EXISTING	SERVICE AND UNITS PROVIDED BY 3RD PARTY VENDOR
EQS-03	300	TRASH ENCLOSURE	SITE	WASTE MANAGEMENT	M&O YARD	TRASH/RECYCLING CONTAINER	???	???	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6	EXISTING	SERVICE AND UNITS PROVIDED BY 3RD PARTY VENDOR
SECOND FLOOR																			
205																			
EQ-091	205	MTG RM 2	M&O	OFFICE	PLAN REVIEW	PLOTTER	HP DESIGNJET	T2580							N/A	N/A	1	EXISTING	
211																			
EQ-080	211	LOCKSMITH	M&O	TOOLS	LOCKSMITH SHOP	CODE MAX	HPC	1200MAX	110	4	1		20	NO	N/A	N/A	1	EXISTING	
EQ-081	211	LOCKSMITH	M&O	TOOLS	LOCKSMITH SHOP	BENCH GRINDER	DEWALT	DW765	110	4	1		20	NO	N/A	N/A	1	EXISTING	
EQ-082	211	LOCKSMITH	M&O	TOOLS	LOCKSMITH SHOP	KEY MACHINE	SILCA	LM63C4	110	4	1		20	NO	N/A	N/A	1	EXISTING	
218																			
EQ-090	218	ADMIN	M&O	OFFICE	LOUNGE	COPIER	RICOH	IM C3500							N/A	N/A	1	EXISTING	
Grand total: 107																			

*ALL STORAGE ITEMS LISTED AS EXISTING OR RE-PURPOSED WILL NEED TO HAVE REQUIRED ANCHORAGE DETAILS UNLESS OTHERWISE NOTED AS NIS [NOT IN SCOPE]
* NA ITEMS DO NOT HAVE OR MEET REQUIRMENTS FOR SERVICE OR ANCHORAGE

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project number: 20-296
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EQUIPMENT SCHEDULE

A11.41

STORAGE SCHEDULE

TAG ID	RM #	ROOM NAME / LOCATION	USER GROUP	CATEGORY	SPACE DESCRIPTION	MANUFACTURER	Model	VOLTS	AMPS	QTY	FIXED ANCHOR	APPROX. WEIGHT	STATUS	NOTES
GROUND FLOOR														
104														
STO-24	104	CUSTODIAL	CUSTODIAL	STORAGE	STORAGE - CHEMICAL AND DRY STORAGE	HEAVY-DUTY STEEL SHELVING 8X4X10	OPEN SPEC			3	SEE (13/S4.01 AND 6/S5.05)	N/A	NEW	STRUCTURAL ANCHORAGE, DESIGN AND CALCULATIONS TO BE DEFERRED SUBMITTAL
STO-25	104	CUSTODIAL	GENERAL	STORAGE	STORAGE - CHAIR & TABLE STORAGE		CAMPUS EQUIP.			1	N/A	N/A		NIS, MO TBD SIZE, FF&E BUDGET
TA-002	104	CUSTODIAL		UTILITY	FOLDING / PACKING TABLE	ULINE PACKING TABLE	OPEN SPEC			1	N/A	N/A		NIS, MO TBD SIZE, FF&E BUDGET
WB-001	104	CUSTODIAL	GROUNDS	UTILITY	WORK BENCH	DURHAM MFG.	HMB-3672-95			1		N/A	NEW	72L" x 36"Wx 34"H VIF
106														
STO-34	106	WAREHOUSE	WAREHOUSE	STORAGE	STORAGE - MANUAL MATERIAL HANDELING	3 SHELF PALLET RACK 10X6X5	OPEN SPEC			1	SEE (11/S4.01)	N/A	NEW	STRUCTURAL ANCHORAGE, DESIGN AND CALCULATIONS TO BE DEFERRED SUBMITTAL
STO-35	106	WAREHOUSE		STORAGE	STORAGE - PALLET RACK	3 SHELF PALLET RACK 10X3.5X12	OPEN SPEC			13	SEE (11/S4.01)	N/A	NEW	DESIGN CRITERIA AND CALCULATIONS PROVIDED- FINAL RACK ENGINEERING AND DESIGN TO BE DEFERRED SUBMITTAL
STO-81	106	WAREHOUSE	WAREHOUSE	VEHICLE / EQUIPMENT	MOBILE STAIRCASE	COTTERMAN				1	N/A	< 400#	EXISTING	14'H, 45"W, 84"D MOBILE PROVIDE ANCHOR CHAIN/STRAP SECURED TO STUD OR COLUMN WHEN NOT IN USE
TA-001	106	WAREHOUSE		UTILITY	PLAN REVIEW TABLE	OPEN SPEC	OPEN SPEC			1	N/A	N/A	NEW	AMAZON 269.00 / 40' x 26' SIMILAR
107														
STO-33	107	WH SERV.		STORAGE	STORAGE - CHEMICAL AND DRY STORAGE	3 SHELF PALLET RACK 8X4X10	OPEN SPEC			1	SEE (11/S4.01)	N/A	NEW	DESIGN CRITERIA AND CALCULATIONS PROVIDED- FINAL RACK ENGINEERING AND DESIGN TO BE DEFERRED SUBMITTAL
108														
STO-06	108	CARPENTRY SHOP	M&O	MATERIAL STORAGE	STORAGE - PLYWOOD STORAGE	ULINE	H-8383			1	SEE (3/S5.05)	145#	NEW	
STO-07	108	CARPENTRY SHOP	M&O	MATERIAL STORAGE	STORAGE - LUMBER STORAGE	ULINE	H-3846			2	SEE (13/S4.01 AND 5/S5.05)	358#	NEW	
TA-001	108	CARPENTRY SHOP		UTILITY	PLAN REVIEW TABLE	OPEN SPEC	OPEN SPEC			2	N/A	N/A	NEW	AMAZON 269.00 / 40' x 26' SIMILAR
WB-001	108	CARPENTRY SHOP	GROUNDS	UTILITY	WORK BENCH	DURHAM MFG.	HMB-3672-95			4		N/A	NEW	72L" x 36"Wx 34"H VIF
108.1														
STO-30	108.1	PAINT SHOP		STORAGE	STORAGE - WIRED SHELVING	METRO	5A357C			2	SEE 13/A9.12	78#	NEW	48X18X74 - USE FOOT PLATES MODEL # 9993S & WALL CLAMPS MODEL # 9984C
109														
STO-05	109	ELEC. SHOP		MATERIAL STORAGE	STORAGE - PIPE / CONDUIT HORIZONTAL RACK	MCMASTER-CARR	4900T88 & 4900T44			2	SEE (4/S5.05)	< 400#	NEW	
STO-31	109	ELEC. SHOP		STORAGE	STORAGE - WIRED SHELVING	METRO	SA-246074C-S-4			3	SEE 13/A9.12	< 400#	NEW	60X24X72
STO-55	109	ELEC. SHOP	M&O	STORAGE	RACK - BIN	OPEN SPEC	OPEN SPEC			3	SEE (2,6/S5.05)	< 400#	NEW	UNLINE BIN ORGANIZER
WB-001	109	ELEC. SHOP	GROUNDS	UTILITY	WORK BENCH	DURHAM MFG.	HMB-3672-95			1		N/A	NEW	72L" x 36"Wx 34"H VIF
110														
STO-55	110	HVAC SHOP	M&O	STORAGE	RACK - BIN	OPEN SPEC	OPEN SPEC			6	SEE (2/S5.05)	< 400#	NEW	UNLINE BIN ORGANIZER
WB-002	110	HVAC SHOP			WORK BENCH	DURHAM MFG.	HMB-3672-95			2	N/A	< 400#	NEW	AGAINST WALL 60" x 36" x 34"
111														
STO-32	111	M&O STORAGE 2	M&O	STORAGE	STORAGE -PAINT STORAGE - 12X10	OPEN SPEC	OPEN SPEC			1	N/A	N/A	NEW	AREA DESIGNATED FOR PAINT SHOP AND STORAGE- NO EQUIPMENT OR SHELVING AT THIS TIME
STO-55	111	M&O STORAGE 2	M&O	STORAGE	RACK - BIN	OPEN SPEC	OPEN SPEC			3	SEE (2/S5.05)	< 400#	NEW	UNLINE BIN ORGANIZER
112														
STO-08	112	M&O STORAGE 1		STORAGE	STORAGE - REEL RACK	OPEN SPEC	OPEN SPEC			1	SEE (13/S4.01)	N/A	NEW	NIS, MO TBD SIZE, FF&E BUDGET
STO-35	112	M&O STORAGE 1		STORAGE	STORAGE - PALLET RACK	3 SHELF PALLET RACK 10X3.5X12	OPEN SPEC			14	SEE (11/S4.01)	N/A	NEW	DESIGN CRITERIA AND CALCULATIONS PROVIDED- FINAL RACK ENGINEERING AND DESIGN TO BE DEFERRED SUBMITTAL
STO-80	112	M&O STORAGE 1	M&O	VEHICLE / EQUIPMENT	MOBILE STAIRCASE	COTTERMAN				1	N/A	N/A	EXISTING	14'H, 45"W, 84"D MOBILE - PROVIDE ANCHORING STRAP OR CHAIN WHEN DOCKED
115														
STO-02	115	GROUNDS SHOP	GROUNDS	STORAGE	STORAGE - TIRE RACK	ULINE	H-4881			1	SEE (2/S5.05)	70#	NEW	STACKED UP TO 3 HIGH
STO-04	115	GROUNDS SHOP	GROUNDS	MATERIAL STORAGE	TOOL CHEST / STEEL /AUTOMATIVE	HARBOR FREIGHT TOOL CHEST				3	N/A	< 400#	NEW	MOBILE <48" H & <400#
STO-05	115	GROUNDS SHOP		MATERIAL STORAGE	STORAGE - PIPE / CONDUIT HORIZONTAL RACK	MCMASTER-CARR	4900T88 & 4900T44			2	SEE (4/S5.05)	< 400#	NEW	
STO-50	115	GROUNDS SHOP	GROUNDS	STORAGE	RACK - BACKPACK BLOWER	REDMAX	EB28500			1	N/A	N/A	EXISTING	4 CURRENT W/ EXPANSION TO 6 AVAILABLE
STO-51	115	GROUNDS SHOP	GROUNDS	STORAGE	RACK - CHAINSAW & HEDGE TRIMMER	STIHL	MS200T			1	N/A	N/A	EXISTING	1 ASPHALT SAW, 5 CHAINSAW, 5 HEDGE TRIMMERS
STO-52	115	GROUNDS SHOP	GROUNDS	STORAGE	RACK - WALL - HAND TOOL					1	N/A	N/A	NEW	EXTENDING OUT INTO FLOOR SPACE
STO-53	115	GROUNDS SHOP	GROUNDS	STORAGE	RACK - STRING TRIMMER & POLE SAW	STIHL				1	N/A	N/A	NEW	
STO-54	115	GROUNDS SHOP	GROUNDS	STORAGE	RACK - GROWING TRAYS					4	N/A	N/A	NEW	MOBILE <48" H & <400#
STO-56	115	GROUNDS SHOP	GROUNDS	STORAGE	RACK - HAND-HELD BLOWER	STIHL	BC49 & 50			1	N/A	N/A	EXISTING	2 CURRENT WITH EXPENSION TO 6 AVAILABLE
WB-001	115	GROUNDS SHOP	GROUNDS	UTILITY	WORK BENCH	DURHAM MFG.	HMB-3672-95			1		< 400#	NEW	72L" x 36"Wx 34"H VIF
118														
STO-70	118	CIRCULATION	M&O	STORAGE	UNIFORM LOCKERS	CINTAS	5X 84",26",21" & 2X 77.5",16.5",16"			7	SEE (10,11,12/A9.11) SEE (10,11,12/A9.11)	N/A	NEW	OFCI. VIF.- 3RD PARTY VENDOR PROVIDED AND INSTALLED
119														
STO-01	119	VEHICLE MAINT. SHOP	MECH	STORAGE	STORAGE - TIRE RACK	ULINE	H-4881			1	SEE (2/S5.05)	70#	NEW	STOCKED UP TO 3 HIGH
STO-03	119	VEHICLE MAINT. SHOP	MECH	MATERIAL STORAGE	TOOL CHEST / STEEL / AUTOMATIVE	HARBOR FREIGHT TOOL CHEST				2	N/A	< 400#	NEW	MOBILE <48" H & <400#
STO-20	119	VEHICLE MAINT. SHOP	MECH	STORAGE	STORAGE - ENGINE OIL	6 TANK BULK OIL STORAGE SYSTEM				1	SEE (13/S4.01)	N/A	EXISTING	
STO-21	119	VEHICLE MAINT. SHOP	MECH	STORAGE	STORAGE - SPILL CONTAINMENT					1	N/A	N/A	EXISTING	MOBILE <48" H & <400#
STO-22	119	VEHICLE MAINT. SHOP	MECH	STORAGE	STORAGE - FILTER / OIL / BREAK PARTS					1	N/A	N/A	EXISTING	CONSUMABLE PRODUCTS
STO-23	119	VEHICLE MAINT. SHOP	MECH	STORAGE	STORAGE - AIR FILTER					1	N/A	N/A	EXISTING	CONSUMABLE PRODUCTS
WB-001	119	VEHICLE MAINT. SHOP	GROUNDS	UTILITY	WORK BENCH	DURHAM MFG.	HMB-3672-95			1		N/A	NEW	72L" x 36"Wx 34"H VIF
SECOND FLOOR														
STO-29			OFFICE	STORAGE	STORAGE - WIRED SHELVING	METRO	5A357C			2	SEE 13/A9.12	< 400#	NEW	36X18X72
STO-30				STORAGE	STORAGE - WIRED SHELVING	METRO	5A357C			5	SEE 13/A9.12	< 400#	NEW	48X18X74 - USE FOOT PLATES MODEL # 9993S & WALL CLAMPS MODEL # 9984C
205														
STO-27	205	MTG RM 2		STORAGE	STORAGE - DRAWING HANDING RACK					9	N/A	N/A	EXISTING	<48" H & <400#
STO-28	205	MTG RM 2		STORAGE	STORAGE - FLAT FILE CABINET_24" x 36"					5	N/A		EXISTING	<48" H & <400#
209														
STO-36	209	W - LOCKER		STORAGE	LOCKER	PENCO	HEAVY DUTY WELDED GEN2			20	SEE (10,11,12/A9.11)	N/A	NEW	METAL 84" x 26" x 21" VIF FOR FITMENT IN SPACE Anchor lockers to floor and wall at 48 inches (1.219 m) or less, as recommended by the manufacturer. PER CBC 11B-222 & 11B-803 ACCESSIBLE SHELVES TO BE WITHIN 15"-48" AFF
213														
STO-36	213	M - LOCKER		STORAGE	LOCKER	PENCO	HEAVY DUTY WELDED GEN2			20	SEE (10,11,12/A9.11)	N/A	NEW	METAL 84" x 26" x 21" VIF FOR FITMENT IN SPACE Anchor lockers to floor and wall at 48 inches (1.219 m) or less, as recommended by the manufacturer. PER CBC 11B-222 & 11B-803 ACCESSIBLE SHELVES TO BE WITHIN 15"-48" AFF
221														
STO-33	221	M&O STORAGE 3		STORAGE	STORAGE - CHEMICAL AND DRY STORAGE	3 SHELF PALLET RACK 8X4X10	OPEN SPEC			3	SEE (11/S4.01)	N/A	NEW	DESIGN CRITERIA AND CALCULATIONS PROVIDED- FINAL RACK ENGINEERING AND DESIGN TO BE DEFERRED SUBMITTAL
Grand total: 166														

*ALL STORAGE ITEMS LISTED AS EXISTING OR RE-PURPOSED WILL NEED TO HAVE REQUIRED ANCHORAGE DETAILS UNLESS OTHERWISE NOTED AS NIS [NOT IN SCOPE]
* NA ITEMS DO NOT HAVE OR MEET REQUIRMENTS FOR SERVICE OR ANCHORAGE

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-121159 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 2/19/2025

CHABOT COLLEGE

CLIENT
CHABOT COLLEGE
25555 HESPERIAN BLVD
HAYWARD, CA 94612

ARCHITECT
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2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

△	date	issue description

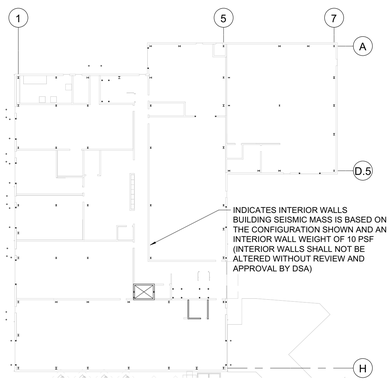
REGISTERED ARCHITECT
C-31715
RENEWAL DATE
OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: DECEMBER 17, 2024

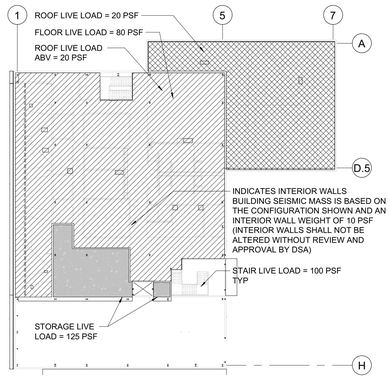
STORAGE SCHEDULE

A11.42



GROUND FLOOR LOADING DIAGRAM

NOT TO SCALE



SECOND FLOOR & ROOF LOADING DIAGRAM

NOT TO SCALE

H CONCRETE MASONRY UNIT NOTES

1. CONCRETE MASONRY UNIT CONSTRUCTION SHALL BE PER 5/S6.03 UNO. USE DOUBLE OPEN END WHERE POSSIBLE AND SINGLE OPEN END OTHERWISE. ALL CELLS TO BE GROUTED SOLID. ALL CMU TO BE LAID IN RUNNING BOND. LAP REINFORCING IN CMU GROUT PER 4/S6.03 .
2. PROVIDE INVERTED BOND BEAM UNITS AT FOUNDATION LEVEL. SEE SPECIFICATIONS FOR CLEANOUT AND GROUTING REQUIREMENTS.
3. DOWELS FROM FOUNDATION ARE TO MATCH SIZE AND ALIGNMENT WITH THE WALL VERTICAL REINFORCEMENT. EXTEND DOWELS FROM FOUNDATION INTO WALL TO PROVIDE MINIMUM LAP WITH WALL VERTICAL REINFORCEMENT. INSTALL DOWEL BARS PER PLAN. ALL DOWELS TO EXTEND TO THE LOWEST FOUNDATION REINFORCEMENT AND END WITH A STANDARD HOOK.
4. SAD FOR TYPE OF FINISH, LOCATION, COLOR, ETC. SEE SPECIFICATIONS OTHERWISE.
5. VERTICAL CONTROL JOINTS SHALL BE SPACED NO GREATER THAN 1.5x THE WALL HEIGHT BUT NOT GREATER THAN 25'-0"oc. SEE 5/S6.03.

J COLD-FORMED STEEL FRAMING SHEAR WALL NOTES

1. PES = PLYWOOD/OSB SHEATHING EDGE SCREWING. BLOCK ALL UNSUPPORTED EDGES WITH 16GA x 3" MIN WIDTH STRAP MATERIAL UNO. SEE SCHEDULE FOR THICKNESS OF STUDS, TOP TRACKS, AND BOTTOM TRACKS.
2. FIELD SCREWING TO BE 12"oc UNO.
3. ALL SHEATHING SCREWS TO BE #8x1" SELF TAPPING FLAT HEAD WITH A MINIMUM HEAD DIAMETER OF 0.285".
4. SHEAR WALL LENGTHS, WHERE NOTED, ARE MINIMUM. DO NOT LOCATE HOLDOWNS FROM THESE DIMENSIONS. SAD FOR ACTUAL WALL LENGTHS.
5. HD REFERS TO SIMPSON STRONG TIE CO. HOLDOWN. INSTALL PER 10/S4.01 .
6. EDGE SCREW WALL SHEATHING TO DOUBLE STUDS WITH HOLDOWNS.
7. PORTIONS OF WALL SURFACES ADJACENT TO SPECIFIED SHEAR WALLS SHALL BE SHEATHED FOR THE FULL, UNINTERRUPTED LENGTH PER NOTE #4 OR WITH GYPSUM BOARD OF THE SAME THICKNESS TO PROVIDE AN EVEN WALL SURFACE FOR FINISH MATERIALS.
8. OPENINGS ARE NOT ALLOWED IN SHEAR WALLS UNLESS SHOWN ON THE STRUCTURAL PLANS. COORDINATE ANY OPENINGS NOT SHOWN WITH THE STRUCTURAL ENGINEER.
9. STUDS SHALL BE BACK TO BACK AT ALL SHEAR WALL ENDS PER 10/S4.01 .

ABBREVIATIONS

AB	ANCHOR BOLT	FTG	FOOTING	PNL	PANEL
ABV	ABOVE	GA	GAGE or GAUGE	PSF	POUNDS PER SQUARE FOOT
AC	AIR CONDITIONING	GALV	GALVANIZED	PSI	POUNDS PER SQUARE INCH
ADJ	ADJACENT	GB	GRADE BEAM	PSL	PARALLEL STRAND LUMBER
ADDL	ADDITIONAL	GL	GRIDLINE	PTDF	PRESSURE TREATED DOUGLAS FIR
ALT	ALTERNATE	GLB	GLUE LAMINATED BEAM	PT	POINT
ALUM	ALUMINUM	GR	GRADE	R	RADIUS
ARCH	ARCHITECT	HD	HOLD DOWN	RBS	REDUCED BEAM SECTION
AYC	ALASKAN YELLOW CEDAR	HDG	HOT-DIP GALVANIZED	RFTR	RAFTER
BF	BOTH FACES	HDR	HEADER	RET	RETAINING
BF	BRACED FRAME	HGR	HANGER	REV	REVISION
BLDG	BUILDING	HK	HOOK	REINF	REINFORCING
BLK/BLKG	BLOCK/BLOCKING	HORIZ	HORIZONTAL	REQD	REQUIRED
BLW	BELOW	HSB	HIGH STRENGTH BOLT	RET	RETAINING
BM	BEAM	HSG	HIGH STRENGTH GROUT	REV	REVISION
BN	BOUNDARY NAIL	HSH	HORIZONTAL SLOTTED HOLE	RF	ROOF
BOT	BOTTOM			RWD	REDWOOD
BRG	BEARING	HSS	HOLLOW STRUCTURAL SECTION	S	AMERICAN STANDARD BEAM
BTWN	BETWEEN	HT	HEIGHT	SAD	SEE ARCHITECTURAL DRAWINGS
BYND	BEYOND	ID	INSIDE DIAMETER	SB	SOLE BLOCK
C	AMERICAN STANDARD CHANNEL	U	I SHAPED WOOD BUILT UP TRUSS	SC	SLIP CRITICAL
CA	CALIFORNIA	INT	INTERIOR	SCD	SEE CIVIL DRAWINGS
CANT	CANTILEVER	JST	JOIST	SCHED	SCHEDULE
CB	CARRIAGE BOLT	JT	JOINT	SED	SEE ELECTRICAL DRAWINGS
CFS	COLD FORMED STEEL	KP	KING POST	SEOR	STRUCTURAL ENGINEER OF RECORD
CIP	CAST IN PLACE	L	STEEL ANGLE	SFRS	SEISMIC FORCE RESISTING SYSTEM
CGL	CERTIFIED GLUED LUMBER	LB or #	POUNDS	SHTG	SHEATHING
CJ	CONTROL JOINT	LGMF	LIGHT GAGE METAL FRAMING	SIM	SIMILAR
CL	CENTERLINE	LGMFC	LIGHT GAGE METAL FRAMING CONTRACTOR	SKYLT	SKYLIGHT
CJP	COMPLETE JOINT PENETRATION	LL	LIVE LOAD	SLD	SEE LANDSCAPE DRAWINGS
CLG	CEILING	LLH	LONG LEG HORIZONTAL	SMS	SHEET METAL SCREW
CLR	CLEAR	LLV	LONG LEG VERTICAL	SMD	SEE MECHANICAL DRAWINGS
COL	COLUMN	LOC	LOCATION	SOG	SLAB ON GROUND
CONC	CONCRETE	LS	LAG SCREW	SPCG	SPACING
CONN	CONNECTION	LSL	LAMINATED STRAND LUMBER	SPD	SEE PLUMBING DRAWINGS
CONT	CONTINUOUS	LVL	LAMINATED VENEER LUMBER	SPEC	SPECIFICATION
COORD	COORDINATE/ COORDINATION	LWC	LIGHTWEIGHT CONCRETE	SQ	SQUARE
CMU	CONCRETE MASONRY UNIT	MAX	MAXIMUM	SS	SELECT STRUCTURAL or STAINLESS STEEL
CSK	COUNTERSINK	MB	MACHINE BOLT	STGR	STAGGERED
CW	CUT WASHER	MBM	METAL BUILDING MANUFACTURER	STD	STANDARD
DBA	DEFORMED BAR ANCHOR	MC	MISCELLANEOUS CHANNEL	STIFF	STIFFENER
DBL	DOUBLE	MECH	MECHANICAL	STL	STEEL
DCW	DEMAND CRITICAL WELD	MEZZ	MEZZANINE	STRUCT	STRUCTURAL
DF	DOUGLAS FIR	MF	MOMENT FRAME	SW	SHEAR WALL
DIA or ⌀	DIAMETER	MFR	MANUFACTURER	SYM	SYMMETRICAL
DIAG	DIAGONAL	MIN	MINIMUM	T&B	TOP AND BOTTOM
DIST	DISTANCE	MISC	MISCELLANEOUS	TAG	TONGUE AND GROOVE
DJ	DOWEL JOINT	MW	MALLEABLE IRON WASHER	THRD	THREADED
DL	DEAD LOAD	MTL	METAL	THRU	THROUGH
DN	DOWN	MU	MECH UNIT	TL	TOTAL LOAD
DO	DITTO	(N)	NEW	TN	TOE NAIL
DWG	DRAWING	N/A	NOT APPLICABLE	TOC	TOP OF CONCRETE
DWL	DOWEL	NO or #	NUMBER	TOF	TOP OF FRAMING
EA	EACH	NS	NEAR SIDE	TOM	TOP OF MASONRY
EE	EACH END	NSG	NON-SHRINK GROUT	TOP	TOP OF PLYWOOD
EF	EACH FACE	NTS	NOT TO SCALE	TOS	TOP OF STEEL
ELEC	ELECTRICAL	NWC	NORMAL-WEIGHT CONCRETE	TOT	TOTAL
ELEV	ELEVATOR/ELEVATION	OI	OVER	TU	TILT UP
EMBED	EMBEDMENT	oc.	ON CENTER	TYP	TYPICAL
EQ	EQUAL	OD	OUTSIDE DIAMETER	UNO	UNLESS NOTED OTHERWISE
EQUIP	EQUIPMENT	OH	OPPOSITE HAND	VERT	VERTICAL
ES	EACH SIDE	OPNG	OPENING	VIF	VERIFY IN FIELD
EW	EACH WAY	OPP	OPPOSITE	VSH	VERTICAL SLOTTED HOLE
EXC	EXCAVATE	OVS	OVERSIZE	W	WIDE FLANGE STEEL BEAM
EXP	EXPANSION	OTHERWISE		W	WEST
EXT	EXTERIOR	OWT	OPEN WEB TRUSS	W/O	WITHOUT
FDN	FOUNDATION	P	PLATE or PROPERTY LINE	WD	WOOD
FIN	FINISH	PA	POST ABOVE	WHS	WELDED HEADED STUD
FG	FINISH GRADE	PAF	POWER ACTUATED FASTENERS	WLD	WELDED
FLR	FLOOR			WP	WORK POINT/WATERPROOF
FN	FACE NAIL	PEN	PANEL EDGE NAIL	WS	WOOD SCREW
FOC	FACE OF CONCRETE	PERP	PERPENDICULAR	WT	WEIGHT
FOM	FACE OF MASONRY	PES	PANEL EDGE SCREWS	WTS	WELDED THREADED STUD
FOS	FACE OF STUD	PJP	PARTIAL JOINT PENETRATION	WWR	WELDED WIRE REINFORCEMENT
FRMG	FRAMING	PLF	POUNDS PER LINEAR FOOT		
FS	FAR SIDE				

F MATERIAL DATA

(INFORMATION SHOWN IS FOR STRUCTURAL DESIGN REFERENCE ONLY. SEE THE PROJECT SPECIFICATIONS FOR ALL MATERIAL SPECIFICATIONS.)

MATERIAL GRADES NOTED IN DETAILS SUPERSEDE THE MINIMUM GRADES SHOWN HERE.

CONCRETE 28-DAY MINIMUM DESIGN STRENGTH:
- F'_c = 4,000 PSI FOUNDATIONS
- F'_c = 4,000 PSI INTERIOR SLAB ON GRADE
- F'_c = 3,000 PSI NORMAL WEIGHT CONCRETE SLAB OVER METAL DECK

REINFORCING STEEL:
- ASTM A615 GRADE 60 OR A706 GRADE 60 (F_y = 60,000 PSI)

STRUCTURAL STEEL (UNO):
- W SHAPES - ASTM A992 (Fy = 50,000 PSI)
- ANGLES, CHANNELS, AND PLATES - ASTM A36 (Fy = 36,000 PSI) OR ASTM A572 GRADE 50 (Fy = 50,000 PSI) OR A529 GRADE 50 (Fy = 50,000 PSI)
- RECTANGULAR HSS - ASTM A500 GRADE C (Fy = 50,000 PSI)
- ROUND HSS - ASTM A500 GRADE B (Fy = 42,000 PSI)
- PIPES - ASTM A53 GRADE B (Fy = 35,000 PSI)

FASTENERS:
- MACHINE BOLTS SHALL BE ASTM A307 GRADE A
- HIGH STRENGTH BOLTS SHALL BE ASTM F3125 GRADE A325 OR F1852 UNO
- ANCHOR RODS SHALL BE ASTM F1554 GR 36 OR ASTM F1554 GR 105 UNO
- ARC-WELDING ELECTRODES SHALL BE E70

COLD FORMED METAL FRAMING YIELD STRENGTH:
- F_y = 33,000 PSI 33 & 43 MILS (20 & 18 GAUGE)
- F_y = 50,000 PSI 54, 68, & 97 MILS (16, 14, & 12 GAUGE)

MASONRY COMPRESSIVE STRENGTH:
- F'_m = 2,000 PSI

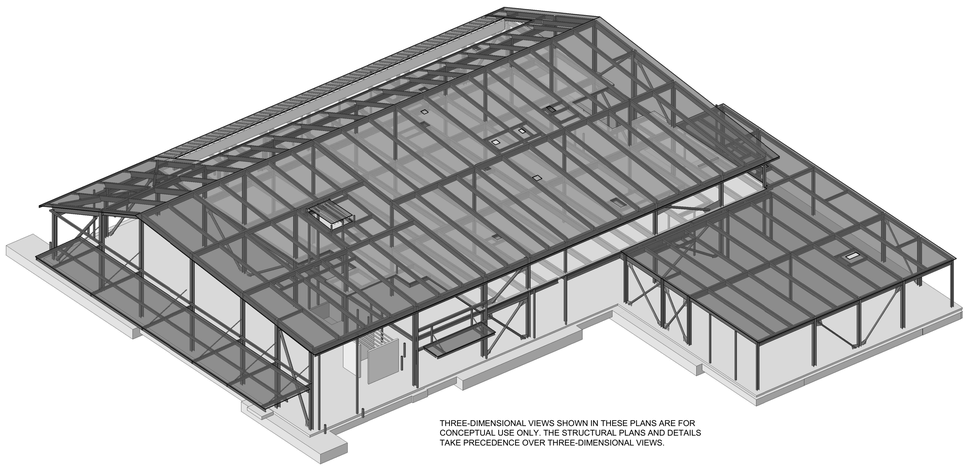
FOR METAL CONNECTOR DESIGNATION REFER TO SIMPSON STRONG-TIE PER SPECIFICATIONS.

G WIND C&C NOTES

HEIGHT (FT)	SURFACE (PER ASCE 7-16 CHAPTER 30.3 PART 1)				
	ROOF ZONE			WALL ZONE	
	1	2	3	4	5
16	16 / -40	16 / -58	16 / -68	22 / -23	22 / -29
32	19 / -46	19 / -67	19 / -79	25 / -27	25 / -33

NET COMPONENTS AND CLADDING WIND PRESSURES (PSF)

1. GIVEN VALUES ARE UNFACTORED AND SHALL BE USED FOR DESIGN OF CLADDING SYSTEMS UNLESS ENGINEERING IS SUBMITTED FOR REVIEW PER ITEM 3.
2. SEE A/S0.01 FOR WIND DESIGN CRITERIA.
3. GIVEN PRESSURES ARE BASED ON AN EFFECTIVE AREA OF 10 SQUARE FEET OR LESS. ENGINEERING MAY BE SUBMITTED TO SUBSTANTIATE USE OF LOWER PRESSURES BASED ON GREATER EFFECTIVE WIND AREAS.
4. NEGATIVE VALUES INDICATE PRESSURE DIRECTED AWAY FROM THE EXTERIOR SURFACE OF THE STRUCTURE. BOTH THE POSITIVE AND NEGATIVE PRESSURE CASES SHALL BE CONSIDERED.



THREE-DIMENSIONAL VIEWS SHOWN IN THESE PLANS ARE FOR CONCEPTUAL USE ONLY. THE STRUCTURAL PLANS AND DETAILS TAKE PRECEDENCE OVER THREE-DIMENSIONAL VIEWS.

E STEEL NOTES

1. COORDINATE TOP OF FOOTING ELEVATIONS AS DETERMINED BY THE CONTRACTOR PER C/S0.01 .
2. TOP OF STEEL ELEVATIONS ARE TO BE DETERMINED BY THE CONTRACTOR BASED ON ARCHITECTURAL DRAWINGS AND STRUCTURAL DRAWINGS.
3. ALL FRAMING AND CONNECTIONS ALONG GRID LINES OR OTHERWISE INDICATED AS (SFRS) ARE PART OF THE SEISMIC FORCE RESISTING SYSTEM. TESTING AND INSPECTION OF FRAMING AND CONNECTIONS INDICATED AS SFRS SHALL MEET ALL REQUIREMENTS OF AISC 341 AND AWS D1.8. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
4. ALL BOLTS THAT ARE A PART OF THE SFRS ARE TO BE SLIP CRITICAL WITH CLASS A FAYING SURFACE PREPARATION, UNO.
5. DEMAND CRITICAL WELDS ARE AS INDICATED ON PLANS, ADDITIONALLY ALL COLUMN SPLICES AND COLUMN TO BASE PLATE WELDS IN THE SFRS ARE DEMAND CRITICAL. DEMAND CRITICAL WELDS AND THE TESTING AND INSPECTION OF THEM ARE TO MEET ALL REQUIREMENTS OF AISC 341, AWS D1.1, AND AWS D1.8.
6. CONCRETE OVER METAL DECK TO BE PLACED PRIOR TO INSTALLATION OF NON-BEARING WALLS BELOW. SPECIFIED NON-BEARING DEFLECTION GAPS IN TRACKS OR TOP PLATES SHALL BE MAINTAINED AFTER PLACEMENT OF CONCRETE.
7. ALL STEEL SURFACES (CARBON OR STAINLESS) IN CONTACT WITH A DISSIMILAR METAL (SUCH AS ALUMINUM) SHALL BE COATED WITH ZINC CHROMATE PAINT OR EQUIVALENT.

C FOUNDATION NOTES

1. ALLOWABLE (ASD) FOUNDATION DESIGN PRESSURES ARE:

   SHALLOW FOOTINGS:
   DEAD LOAD = 2,000 PSF
   DEAD LOAD + LIVE LOAD = 3,000 PSF
   DEAD LOAD + LIVE LOAD + LATERAL = 3,000 PSF
2. ALL SOILS WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS AND THE REQUIREMENTS OF THE GEOTECHNICAL REPORT NOTED BELOW, AND CHAPTER 18A OF THE CBC. ALL FOUNDATIONS SHALL BEAR ON FIRM, UNDISTURBED, NATIVE SOILS OR ENGINEERED FILL AT OR EXCEEDING DEPTHS SHOWN ON THE DRAWINGS. ENGINEERED FILL TO BE COMPACTED PER GEOTECHNICAL REPORT. INCREASE FILL AND OR FOOTING DEPTH AS REQUIRED BY GEOTECHNICAL ENGINEER. ALL FOOTING EXCAVATIONS SHALL BE AS NEAT AS PRACTICABLE. MAXIMUM OVER EXCAVATION IN WIDTH SHALL BE LESS THAN 12 INCHES OR 25% OF FOOTING WIDTH, WHICH EVER IS LESS. 6 INCHES MAXIMUM PER SIDE. LARGER OVER-EXCAVATIONS IN WIDTH SHALL BE FILLED WITH ADDITIONAL REINFORCED CONCRETE AS DIRECTED BY THE ENGINEER, OR FORMWORK SHALL BE PROVIDED. OVER-EXCAVATIONS IN DEPTH MAY BE FILLED WITH LEAN CONCRETE OR COMPACTED APPROVED BACKFILL. ALL LOOSE SOILS SHALL BE REMOVED FROM EXCAVATIONS PRIOR TO PLACEMENT OF REINFORCING OR CONCRETE. GEOTECHNICAL REPORT BY:

   ATLAS TECHNICAL CONSULTANTS LLC
   REPORT NO. 91-64550-PW
   DATED: APRIL 11, 2023
3. WHERE BOTTOM OF ADJACENT FOOTINGS ARE DIFFERENT PROVIDE STEPPED FOOTING PER 5/S1.01 .
4. USE ANCHOR BOLTS (AB) PER 4/S1.02 AT CFS WALLS WHERE NOT OTHERWISE NOTED. CAST-IN-PLACE ANCHOR BOLTS ARE TO BE TIED IN PLACE PRIOR TO PLACEMENT OF CONCRETE. MINIMUM TWO ANCHOR BOLTS PER SILL PIECE.
5. TYPICAL SLAB: CONCRETE SLAB WITH DEPTH AND REINFORCING PER PLAN OVER VAPOR RETARDER (PER SPECIFICATIONS) AND FREE DRAINING COMPACTED CRUSHED ROCK PER PLAN ON SUBGRADE PER THE GEOTECHNICAL RECOMMENDATIONS, AND AS APPROVED BY THE GEOTECHNICAL ENGINEER. DO NOT DRIVE CONCRETE TRUCKS OR LARGE SCREED MACHINES ON VAPOR RETARDER WITHOUT ADDITIONAL BUFFER MATERIAL AND APPROVAL FROM THE STRUCTURAL ENGINEER.
6. REFER TO ARCHITECTURAL AND PLUMBING DRAWINGS FOR DEPRESSED SLABS FOR ARCHITECTURAL FLOORING OR INSERTS. SLOPED SLABS TO DRAIN AND PIPES OR CONDUITS AT SLAB. SEE 7/S1.01 FOR PIPES AND CONDUITS.
7. PROVIDE CONTROL JOINTS PER 6/S1.01 (OR CONSTRUCTION/DOWEL JOINTS AT CONTRACTOR'S OPTION) AS SHOWN ON PLAN AND AS REQUIRED TO MEET A MAXIMUM SPACING IN FEET OF 3 TIMES THE SLAB DEPTH IN INCHES (FOR EXAMPLE 3x4" = 12'-0"oc MAX) AND 15'-0"oc MAX. INSTALL JOINTS TO DIVIDE SLAB INTO RECTANGULAR AREAS WITH LONG DIMENSION LESS THAN 1.5 x SHORT DIMENSION. INSTALL JOINTS AT FACE OF STUDS OF WALL WHERE POSSIBLE. SUBMIT JOINT LAYOUT PLAN FOR REVIEW PRIOR TO PLACEMENT.
8. FORMWORK STAKES ARE NOT PERMITTED WITHIN CONCRETE PLACEMENTS. IF REQUIRED, PROVIDE STEEL STAKES SLEEVED WITH PLASTIC PIPE OR SOLID PLASTIC STAKES; WOOD STAKES NOT PERMITTED. FLUSH CUT SLEEVE OR STAKE AND FILL SLEEVES IMMEDIATELY WITH GROUT. WHERE STAKES PENETRATE VAPOR RETARDER, TAPE OR SEAL PER MANUFACTURER'S RECOMMENDATIONS.
9. TOP OF FOOTING ELEVATIONS TO BE DETERMINED BY THE CONTRACTOR BASED ON INFORMATION FROM THE CIVIL DRAWINGS, GEOTECHNICAL REPORT, LANDSCAPE, ETC.

D COLD-FORMED STEEL FRAMING NOTES

1. SEE PLANS, DETAILS, AND ARCHITECTURAL DRAWINGS FOR METAL FRAMING LOCATIONS. SEE ARCHITECTURAL DRAWINGS FOR WALL WIDTHS AND CONFIGURATIONS.
2. EACH FRAMING MEMBER IS DESIGNATED BY A FOUR PART CODE INDICATING THE SIZE (BOTH DEPTH AND FLANGE WIDTH), STYLE, AND MATERIAL THICKNESS. FOR EXAMPLE, 600S162-54:

   600 - MEMBER DEPTH IN 1'/100" (6")
   S - MEMBER STYLE - S=STUD, T=TRACK
   162 - FLANGE WIDTH IN 1/100" (1⅝")
   54 - MATERIAL THICKNESS IN MILS (0.054")
3. TYPICAL METAL STUDS AND FRAMING ARE PER SCHEDULE 1/S1.02 UNO. SUBMIT SHOP AND ERECTION DRAWINGS AND MANUFACTURER'S INFORMATION SHOWING CONFORMANCE TO CRITERIA SHOWN ON DRAWINGS AND SPECIFICATIONS. MINIMUM METAL THICKNESS = 33MILS (20GA).
4. TYPICAL TRACKS ARE SAME GAUGE (MILS) AS STUD, 43 MILS MINIMUM UNO. FLANGE TO BE 1½" MIN.
5. ALL STUDS TO BE CONTINUOUS. ALL TRACKS IN HEADERS AND SILLS TO BE CONTINUOUS SINGLE-PIECE BETWEEN JAMB STUDS OR PARAPET POSTS.
6. FASTENING OF COMPONENTS SHALL BE WITH SELF-DRILLING SCREWS OR WELDING. SCREWS OR WELDS NOT SHOWN SHALL BE OF SUFFICIENT SIZE TO ENSURE THE STRENGTH OF THE CONNECTION. ALL WELDS OF GALVANIZED STEEL SHALL BE TOUCHED-UP WITH A ZINC-RICH PAINT. WIRE TYING OF COMPONENTS SHALL NOT BE PERMITTED.
7. EXPANSION ANCHOR OR SCREW ANCHOR SIZE AND EMBEDMENT ARE AS REQUIRED PER DRAWINGS. MINIMUM STEEL EDGE DISTANCE IN TRACK IS 2x ANCHOR DIAMETER AND MINIMUM SPACING IS 3x ANCHOR DIAMETER UNO. SEE EXPANSION OR SCREW ANCHOR SCHEDULE FOR CONCRETE REQUIREMENTS. FOR EXPANSION ANCHOR THROUGH METAL TRACK, USE 3" SQUARE x ¼" PLATE WASHER (OR EQUIVALENT ROUND WASHER) AT TRACK. DRILL HOLE IN PLATE WASHER FOR EXPANSION ANCHOR AS NEEDED TO ACHIEVE MINIMUM EDGE DISTANCES.
8. METAL STUDS TO BE LATERALLY BRACED WITH GYPSUM BOARD BOTH SIDES PER CBC OR BRACED AT 4'-0"oc MAXIMUM PER 1/S1.03 .
9. TYPICAL STUD-TO-TRACK CONNECTIONS PER 7/S1.02 UNO. MAXIMUM GAP OF ¼" IS ALLOWED BETWEEN STUDS AND TRACK AT STANDARD WALLS. TRIM STUDS TO FULLY BEAR.
10. TYPICAL WALL INTERSECTIONS PER 4/S1.03 UNO.
11. PROVIDE LIGHT GAUGE METAL BACKING FOR ARCHITECTURAL FINISHES AND FURNISHINGS, SAD. PER 5/S1.03 UNO. PROVIDE FULL DEPTH BLOCKING PER 1/S1.03 OPTION 2 WHERE SHOWN, SAD.
12. CEILING FRAMING PER 9/S1.03 .
13. TYPICAL PUNCHOUTS PER 2/S1.03 .
14. FOR POWER ACTUATED FASTENERS (PAF) UNO:

BASE MATERIAL	FASTENER TYPE	SIZE	MINIMUM SPACING	MINIMUM EDGE DISTANCE	NOTES
CONCRETE	HILTI X-U (ICC ESR-2269)	0.157"⌀ MIN 1¼" LONG	4"	3"	DO NOT USE PAF AT CONCRETE CURB
STRUCTURAL STEEL	HILTI X-U (ICC ESR-2269)	0.157"⌀x¾" LONG	1"	½"	

A DESIGN CRITERIA

DESIGN CRITERIA:	2022 CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2 (CBC) INCLUDING DSA-SS AMENDMENTS
FLOOR LIVE LOAD:	80 PSF (REDUCIBLE) (INTERIOR PARTITIONS SHALL NOT BE ALTERED WITHOUT REVIEW AND APPROVAL BY DSA) CORRIDOR: 80 PSF STORAGE: 125 PSF
ROOF LIVE LOAD:	20 PSF (REDUCIBLE)
FUTURE SOLAR:	3 PSF (INCLUDES ALL ASSOCIATED FUTURE SOLAR FRAMING, IN AREAS MARKED "SOLAR READY" ONLY)
RISK CATEGORY:	III
WIND DATA:	ULTIMATE WIND SPEED (3 SEC GUST) IN MPH: 98 WIND EXPOSURE: C INTERNAL WIND PRESSURE COEFFICIENT (GCPI) = ±0.18 COMPONENTS AND CLADDING DESIGN PRESSURES FOR SYSTEMS DESIGNED BY OTHERS SHALL COMPLY WITH THE "ASCE 7-16" DESIGN STANDARD AND C/S0.01 .
EARTHQUAKE DATA:	SEISMIC IMPORTANCE FACTOR, I_e: 1.25 MAPPED SPECTRAL RESPONSE ACCELERATIONS: S_S = 1.859; S_1 = 0.709 SITE CLASS: D SPECTRAL RESPONSE COEFFICIENTS: S_{DS} = 1.239; S_{D1} = 0.804 SEISMIC DESIGN CATEGORY: E SEISMIC FORCE RESISTING SYSTEM(S): STEEL SPECIAL CONCENTRIC BRACED FRAMES (MAIN BLDG), LIGHT-FRAMED CFS SHEAR WALLS (SECURE SHOP), STEEL SPECIAL CANTILEVER COLUMN (TRASH ENCLOSURE) RESPONSE MODIFICATION FACTOR(S): R = 6.0 (MAIN BLDG), 6.0 (SECURE SHOP), R =2.5 (TRASH ENCLOSURE) SEISMIC RESPONSE COEFFICIENT(S), C_S (ULTIMATE) = 0.258 (MAIN BUILDING), 0.238 (SECURE SHOP), 0.496 (TRASH ENCLOSURE) ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE MAXIMUM ANTICIPATED STORY DRIFT = 0.015 X HEIGHT PROVIDE DEFORMATION COMPATIBILITY PER ASCE 7 SECTION 12.12.5 FOR NON-STRUCTURAL ITEMS, INCLUDING CLADDING, STAIRS, GLAZING, ETC.
SCOPE:	NEW 2-STORY MAINTENANCE AND OPERATIONS BUILDING ON AN EXISTING CAMPUS.

B GENERAL NOTES

1. REFER TO SHEETS S1.01 , S1.02 , S1.03 , S1.04 AND S1.05 FOR STANDARD DETAILS OF CONSTRUCTION. REFER TO THE PROJECT SPECIFICATIONS FOR MATERIALS AND METHODS.
2. BUILDING DIMENSIONS SHOWN ARE FOR GENERAL REFERENCE ONLY. SEE ARCHITECTURAL DRAWINGS (SAD) FOR ALL ACTUAL BUILDING DIMENSIONS. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER SO CLARIFICATION CAN BE MADE PRIOR TO COMMENCING WORK.
3. STRUCTURAL DRAWINGS SHALL NOT BE SCALED. ALL DIMENSIONS AND FIT SHALL BE DETERMINED AND VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING WORK.
4. DETAILS NOT FULLY OR SPECIFICALLY SHOWN SHALL BE OF SAME NATURE AS OTHER SIMILAR CONDITIONS.
5. REFER TO ARCHITECTURAL DRAWINGS FOR SIDEWALK SLABS AND DIMENSIONS.
6. COORDINATION OF MECHANICAL, ELECTRICAL, PLUMBING, AND SITE UTILITY SYSTEMS WITH THE STRUCTURAL SYSTEM IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. USE DETAILS ON SHEETS S1.01 THROUGH S1.05 AT CONDITIONS WHERE THESE DETAILS DO NOT APPEAR TO APPLY, NOTIFY THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION. AT CONDITIONS WHERE FIELD MODIFICATIONS OF MECHANICAL, ELECTRICAL, PLUMBING, OR SITE UTILITIES AFFECT STRUCTURAL SYSTEMS, NOTIFY STRUCTURAL ENGINEER PRIOR TO INSTALLATION.
7. VERIFY WEIGHTS AND LOCATIONS OF MECHANICAL UNITS WITH MECHANICAL ENGINEER PRIOR TO PLACEMENT. UNITS VARYING OVER 10% IN WEIGHT SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION (MECHANICAL WEIGHTS SHOWN ARE MAXIMUM). CONTRACTOR TO VERIFY MECHANICAL UNIT SIZES AND WEIGHTS AS INSTALLED PRIOR TO INSTALLATION OF SPECIAL FRAMING TO ENSURE CORRECT PLACEMENT UNDER CURBS, ETC. SEE 12/S1.04 AND 4/S1.04 .
8. SHORING AND BRACING DESIGN, MATERIALS AND INSTALLATION SHALL BE PROVIDED BY THE GENERAL CONTRACTOR, AND SHALL BE ADEQUATE FOR ALL LOADS. LEAVE IN PLACE AS LONG AS MAY BE REQUIRED FOR SAFETY AND UNTIL FINAL STRUCTURAL CONSTRUCTION IS COMPLETED. THE CONTRACTOR SHALL ENGAGE A LICENSED CIVIL OR STRUCTURAL ENGINEER TO PROVIDE SHORING.
9. SPECIAL INSPECTIONS ARE REQUIRED PER THE TESTING AND INSPECTION FORM.
10. STRUCTURAL OBSERVATION PER CBC SECTION 1704A.6 IS REQUIRED. NOTIFY ZFA FOR ON SITE OBSERVATION OF:
    - MINIMUM FOOTING SIZE AND REINFORCING STEEL
    - STRUCTURAL STEEL FRAMING
    - SLAB OVER METAL DECK REINFORCING
    - SHEAR WALLS, SHEAR PANELS AND DIAPHRAGMS, INCLUDING NAILING, ANCHORAGE, AND FASTENEING TO OTHER COMPONENTS OF THE SEISMIC FORCE RESISTING SYSTEM.

    NOTIFY ZFA FOR REVIEW PRIOR TO COVERING ABOVE LISTED WORK. PROVIDE 2 WORKING DAYS MINIMUM SCHEDULING NOTICE PRIOR TO REVIEW DATE.
11. SUBMIT ENGINEERING FOR DEFERRED APPROVAL ITEMS TO ARCHITECT/ENGINEER FOR REVIEW AND SUBMITTAL TO THE BUILDING DEPARTMENT FOR APPROVAL PRIOR TO FABRICATION. DEFERRED APPROVAL ITEMS SHALL BE DESIGNED AND DETAILED BY THE MANUFACTURER TO ACCOMMODATE HORIZONTAL AND VERTICAL MOVEMENTS AS NOTED IN STRUCTURAL DRAWINGS. GENERAL CONTRACTOR SHALL REVIEW AND APPROVE DIMENSIONS AND DETAILS SHOWN ON THE SHOP DRAWINGS PRIOR TO SUBMITTAL. MANUFACTURER TO PROVIDE DRAWINGS AND CALCULATIONS DESIGNED IN ACCORDANCE WITH THE CBC AND SPECIFICATIONS, PREPARED AND SIGNED BY A CALIFORNIA LICENSED CIVIL OR STRUCTURAL ENGINEER FOR THE FOLLOWING ITEMS, UNLESS NOTED OTHERWISE:
    - A. ELEVATOR - STRUCTURAL DESIGN AND DRAWINGS OF ELEVATOR GUIDES, RAILS, RAIL CLIPS, RAIL SPLICES, RETAINER PLATES, SUPPORTS, MACHINE ROOM EQUIPMENT, ETC., AND THEIR CONNECTIONS TO THE STRUCTURE SHALL BE PROVIDED BY THE ELEVATOR MANUFACTURER/SUPPLIER. CONFORM TO CBC AND CAL OSHA REQUIREMENTS.
    - B. WINDOW WALL/GLAZING SYSTEMS WITH A SPAN GREATER THAN 10'-0" AS REQUIRED PER DSA IR 24-2. INCLUDING ATTACHMENTS TO STRUCTURE
    - C. PALLET RACKS AND THEIR ANCHORAGE TO THE STRUCTURE. SEE ARCHITECTURAL DRAWINGS AND 11/S4.01 FOR ADDITIONAL INFORMATION.

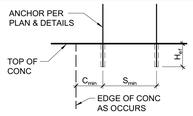
    SEISMIC DESIGN CRITERIA AND DRIFT LIMITS TO MEET REQUIREMENTS OF A/S0.01.

SHEET INDEX

S0.01	GENERAL NOTES AND LOADING DIAGRAMS
S1.01	TYPICAL CONCRETE DETAILS
S1.02	TYPICAL CFS ELEVATION AND CONNECTION DETAILS
S1.03	TYPICAL CFS SOFFIT & MISCELLANEOUS DETAILS
S1.04	TYPICAL METAL DECKING DETAILS
S1.05	TYPICAL STEEL FRAMING DETAILS
S2.01	FOUNDATION PLAN
S2.02	SECOND FLOOR AND LOW ROOF FRAMING PLAN
S2.03	ROOF FRAMING PLAN

ADHESIVE ANCHOR IN 2500 PSI MIN CONCRETE

ADHESIVE TYPE	ANCHOR: THRD ROD	ANCHOR: REBAR	PILOT HOLE	MIN EMBED UNO H_{ef}	MIN EDGE DISTANCE C_{min}	MIN SPCG S_{min}	MIN CONC DEPTH H_{min}
SIMPSON SET-XP (ICC-ESR 2508)	⅜"ø	#3	½"ø	3"	1¾"	3"	H_{ef} + 2½"
	½"ø	#4	⅝"ø	4"	1¾"	3"	H_{ef} + 3½"
	⅝"ø	#5	¾"ø	5"	1¾"	3"	H_{ef} + 3½"
	¾"ø	#6	⅞"ø	6"	1¾"	3"	H_{ef} + 4⅜"
	⅞"ø	#7	1"ø	7"	1¾"	3"	H_{ef} + 4"
	1"ø	#8	1⅛"ø	8"	1¾"	3"	H_{ef} + 5⅛"
	1¼"ø	#10	1⅜"ø	10"	2¾"	6"	H_{ef} + 6⅛"
HILTI HIT-HY 200R V3 (ICC-ESR 4868)	⅜"ø	N/A	⅞"ø	3"	1¾"	1⅞"	H_{ef} + 1¼"
	N/A	#3	½"ø	3"	1¾"	1⅞"	
	½"ø	N/A	⅝"ø	4"	1¾"	2½"	
	N/A	#4	⅝"ø	4"	1¾"	2½"	
	⅝"ø	#5	¾"ø	5"	1¾"	3⅛"	H_{ef} + 1½"
	¾"ø	#6	⅞"ø	6"	1¾"	3½"	H_{ef} + 1¾"
	⅞"ø	#7	1"ø	7"	1¾"	4⅜"	H_{ef} + 2"
	1"ø	#8	1⅛"ø	8"	1¾"	5"	H_{ef} + 2¼"
	N/A	#9	1⅜"ø	9"	1¾"	5⅝"	H_{ef} + 2½"
	1¼"ø	N/A	1⅜"ø	10"	1¾"	6¼"	
	N/A	#10	1½"ø	10"	1¾"	6¼"	H_{ef} + 3"



NOTES:

1. INSTALL ADHESIVE ANCHORS PER MANUFACTURER'S INFORMATION AND ICC REPORT.
2. CONTRACTOR TO VERIFY MINIMUM EDGE DISTANCES, SPACING, AND THICKNESS ARE IN ACCORDANCE W/ SCHEDULE PRIOR TO INSTALLING ANCHOR.
3. HOLES TO BE DRILLED W/ ROTARY DRILL ONLY. WHEN DRILLING HOLES IN EXISTING CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN 1" CLEARANCE BETWEEN REINFORCEMENT AND THE DRILLED-IN ANCHOR. FILL ABANDONED HOLES W/ HIGH STRENGTH GROUT.
4. SPECIAL INSPECTION IS REQUIRED PER SECTION 1705A AND THE REQUIREMENTS OF THE ICC REPORTS. THE SPECIAL INSPECTOR SHALL PERFORM PERIODIC/CONTINUOUS INSPECTION IN ACCORDANCE WITH TABLE 1705A.3. THE SPECIAL INSPECTOR SHALL INSPECT ANCHOR TYPE, ANCHOR DIMENSIONS, HOLE CLEANLINESS, EMBEDMENT DEPTH, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, DRILL BIT DIAMETER, HOLE DEPTH, EDGE DISTANCE(S), ANCHOR SPACING(S), CONCRETE THICKNESS, AND ADHESIVE INJECTION. TEST ANCHORS IN ACCORDANCE W/ CBC SECTION 1910A.S. SEE DRAWINGS FOR SPECIFIC TENSION TEST LOADS FOR ANCHORS.

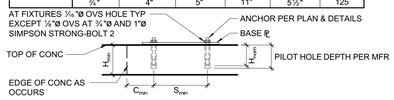
14 ADHESIVE ANCHOR IN CONCRETE
3/4" = 1'-0"

CARBON STEEL EXPANSION ANCHORS IN 2500 PSI MIN CONC

ANCHOR TYPE	ANCHOR & PILOT HOLE DIA	MIN NOMINAL EMBED H_{nom}	MIN EDGE DISTANCE C_{min}	MIN SPCG S_{min}	MIN CONC THICKNESS H_{min}	INSTALL TORQUE (FT-LB)
SIMPSON STRONG-BOLT 2 (ICC-ESR 3037)	⅜"	1⅞"	6"	3"	3¼"	30
	½"	2½"	6"	6"	4"	60
	⅝"	3⅜"	6½"	5"	5½"	90
	¾"	4⅛"	4½"	10"	6"	150
	1"	5¼"	8"	8"	9"	230
HILTI KB1 (IAPMO-ER 678)	⅜"	1⅞"	8"	8"	3⅜"	20
	½"	2⅜"	4"	8½"	4"	40
	⅝"	3¼"	5½"	8"	5"	60
	¾"	4"	9½"	5"	5½"	110

STAINLESS STL EXPANSION ANCHORS IN 2500 PSI MIN CONC

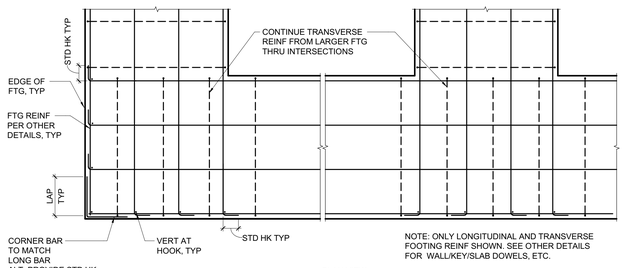
ANCHOR TYPE	ANCHOR & PILOT HOLE DIA	MIN NOMINAL EMBED H_{nom}	MIN EDGE DISTANCE C_{min}	MIN SPACING S_{min}	MIN CONC THICKNESS H_{min}	INSTALL TORQUE (FT-LB)
SIMPSON STRONG-BOLT 2 (ICC-ESR 3037)	⅜"	1⅞"	6"	10"	3¼"	30
	½"	2⅜"	6½"	8"	4½"	65
	⅝"	3⅜"	4"	8"	5½"	80
	¾"	4⅛"	6"	6½"	6¾"	150
HILTI KB-TZ2 (ICC-ESR 4266)	⅜"	1⅞"	5"	8"	3¼"	30
	½"	2½"	2¾"	5½"	4"	40
	⅝"	3¼"	4"	7"	5"	60
	¾"	4"	5"	11"	5½"	125



NOTES:

1. INSTALL EXPANSION ANCHORS PER MANUFACTURER'S INFORMATION AND ICC REPORT INSTRUCTIONS. SPECIAL INSPECTION IS REQUIRED PER SECTION 1705A AND THE REQUIREMENTS OF THE ICC REPORTS.
2. CONTRACTOR TO VERIFY MINIMUM EDGE DISTANCES, SPACING AND THICKNESS ARE IN ACCORDANCE W/ SCHEDULE PRIOR TO INSTALLING ANCHOR.
3. NO CORE DRILLING PERMITTED. USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN 1" CLEARANCE BETWEEN REINFORCEMENT AND THE DRILLED-IN ANCHOR. FILL ABANDONED HOLES W/ HIGH STRENGTH GROUT.
4. THE SPECIAL INSPECTOR SHALL PERFORM PERIODIC/CONTINUOUS INSPECTION IN ACCORDANCE WITH TABLE 1705A.3. THE SPECIAL INSPECTOR SHALL INSPECT ANCHOR TYPE, ANCHOR DIMENSIONS, HOLE CLEANLINESS, EMBEDMENT DEPTH, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, DRILL BIT DIAMETER, HOLE DEPTH, EDGE DISTANCE(S), ANCHOR SPACING(S), CONCRETE THICKNESS, AND TIGHTENING TORQUE.
5. TEST ANCHORS IN ACCORDANCE W/ CBC SECTION 1910A.5.

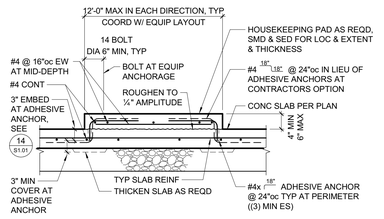
15 EXPANSION ANCHOR IN CONCRETE
3/4" = 1'-0"



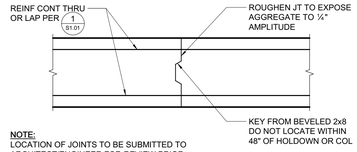
PLAN VIEW

NOTE: ONLY LONGITUDINAL AND TRANSVERSE FOOTING REINF SHOWN. SEE OTHER DETAILS FOR WALL/KEY/SLAB DOWELS, ETC.

16 TYPICAL CORNER AND INTERSECTION AT BRACED FRAME FOOTINGS
1/2" = 1'-0"



11 TYPICAL HOUSEKEEPING PAD AT SLAB ON GRADE
3/4" = 1'-0"

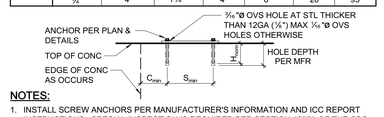


NOTE:
LOCATION OF JOINTS TO BE SUBMITTED TO ARCHITECT/ENGINEER FOR REVIEW PRIOR TO PLACEMENT OF CONCRETE

12 FOOTING CONSTRUCTION JOINT
3/4" = 1'-0"

SCREW ANCHOR IN 2500 PSI MIN CONCRETE

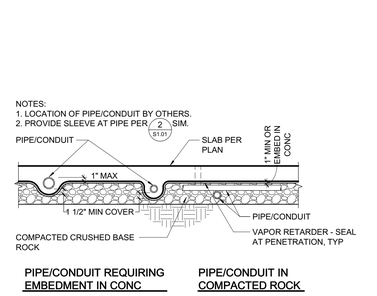
ANCHOR TYPE	ANCHOR AND PILOT HOLE DIA	MINIMUM EMBEDMENT H_{nom}	MINIMUM EDGE DIST C_{min}	MINIMUM SPCG S_{min}	MINIMUM CONCRETE THICKNESS H_{min}	MINIMUM INSTALL TORQUE (FT-LB)	MAXIMUM INSTALL TORQUE (FT-LB)
SIMPSON TITEN HD (ICC-ESR 2713)	¼"	1⅜"	1½"	1½"	3¼"	10	24
	⅜"	2½"	1¾"	3"	4"	10	50
	½"	3¼"	1¾"	3"	5"	10	65
	⅝"	4"	1¾"	3"	6"	10	100
	¾"	5½"	1¾"	3"	8½"	20	150
HILTI KH-EZ (ICC-ESR 3027)	¼"	1⅜"	1½"	1½"	3¼"	10	18
	⅜"	2½"	1½"	3"	4"	10	40
	½"	3"	1¾"	3"	4½"	10	45
	⅝"	3¼"	1¾"	4"	5"	10	85
	¾"	4"	1¾"	4"	6"	20	95



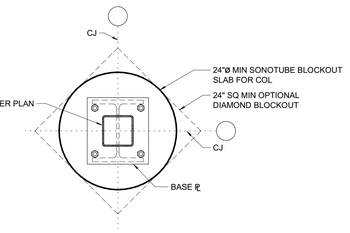
NOTES:

1. INSTALL SCREW ANCHORS PER MANUFACTURER'S INFORMATION AND ICC REPORT INSTRUCTIONS. SPECIAL INSPECTION IS REQUIRED PER SECTION 1705A OF THE CBC AND THE REQUIREMENTS OF THE ICC REPORTS. INSTALLED ANCHORS SHALL BRING CONNECTED PLIES INTO FIRM CONTACT, MEETING THE INSTALL TORQUE BUT NOT EXCEEDING THE MAXIMUM INSTALL TORQUE.
2. CONTRACTOR TO VERIFY MINIMUM EDGE DISTANCES, SPACING AND THICKNESS ARE IN ACCORDANCE W/ SCHEDULE PRIOR TO INSTALLING ANCHOR.
3. HOLES TO BE DRILLED W/ ROTARY DRILL ONLY. WHEN INSTALLING DRILLED-IN ANCHORS IN EXISTING REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN 1" CLEARANCE BETWEEN REINFORCEMENT AND THE DRILLED-IN ANCHOR. FILL ABANDONED HOLES W/ HIGH STRENGTH GROUT.
4. THE SPECIAL INSPECTOR SHALL PERFORM PERIODIC/CONTINUOUS INSPECTION IN ACCORDANCE WITH TABLE 1705A.3. THE SPECIAL INSPECTOR SHALL INSPECT ANCHOR TYPE, ANCHOR DIMENSIONS, HOLE CLEANLINESS, EMBEDMENT DEPTH, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, DRILL BIT DIAMETER, HOLE DEPTH, EDGE DISTANCE(S), ANCHOR SPACING(S), CONCRETE THICKNESS, AND TIGHTENING TORQUE.
5. TEST ANCHORS IN ACCORDANCE W/ CBC SECTION 1910A.5.

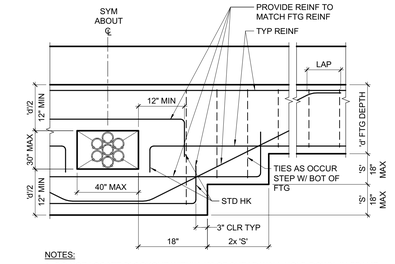
13 SCREW ANCHOR IN CONCRETE
3/4" = 1'-0"



7 CONDUIT & PIPE AT SLAB ON GRADE
3/4" = 1'-0"



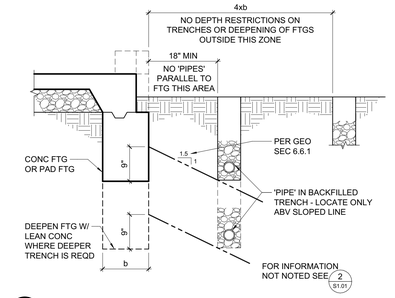
8 SLAB BLOCKOUT
1" = 1'-0"



NOTES:

1. DO NOT LOCATE BLOCKOUT WITHIN 48" OF SHEAR WALL HOLD DOWN, IN FRAME FOUNDATIONS OR COLUMN PAD FOOTINGS.
2. MINIMUM DISTANCE BETWEEN BLOCKOUTS OR OTHER PIPES TO BE 48".

3 FOUNDATION BLOCKOUT
3/4" = 1'-0"



4 TRENCHING ADJACENT TO FOOTING
3/4" = 1'-0"

MINIMUM BAR LAPS FOR REINFORCING STEEL CONCRETE STRENGTH: 2500 PSI OR GREATER (STAGGER SPLICES)

SIZE	LAP LENGTH	SIZE	LAP LENGTH	SIZE	LAP LENGTH
#3	19"	#6	38"	#9	94"
#4	25"	#7	61"	#10	115"
#5	37"*	#8	77"	#11	138"

(CLASS B TOP BAR)
BAR SPCG SHALL NOT BE LESS THAN 4x BAR DIA OR 4".
* WHERE COVER NOT LESS THAN 1½", #5 LAP LENGTH = 31"

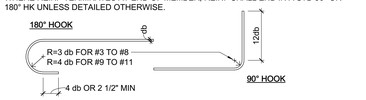
CONC COVER FOR REINF STL 'CLR'

CAST AGAINST EARTH OR GR . . . . . 3"

EXPOSED TO EARTH (FORMED) OR WEATHER
#5 & SMALLER . . . . . 1½"
#6 & LARGER . . . . . 2"

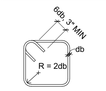
NOT EXPOSED TO EARTH OR WEATHER
#5 & SMALLER . . . . . 1"
#6 & LARGER, & ALL BM STIRRUPS, COL TIES & SPIRALS . . . . . 1½"

ALL REINF SHALL EXTEND AS FAR AS POSSIBLE. WHERE BAR SPLICES ARE REQUIRED, BARS SHALL BE LAPPED PER SCHEDULE ABOVE UNLESS DETAILED OTHERWISE. WHERE REINF TERMINATES AT END OF MEMBER, REINF SHALL END IN A STD 90° OR 180° HK UNLESS DETAILED OTHERWISE.



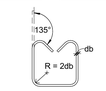
STANDARD HOOKS & BENDS

COL BAR & STRUCT OFFSET

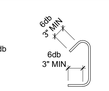


135° STIRRUP TIES #3, #4, #5

SPLICE

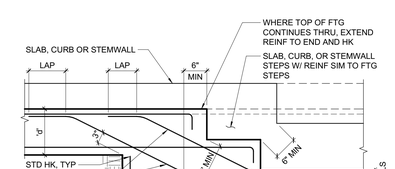


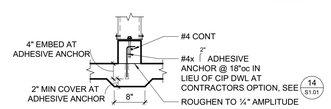
STIRRUP #3, #4, #5



CROSSTIE #3, #4, #5

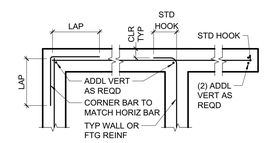
1 TYPICAL REINFORCING DETAILS (f'c = 2500psi MIN)
3/4" = 1'-0"



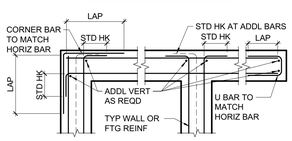


ALT CURB OPTION

9 NON-BEARING STUD WALL AT SLAB
3/4" = 1'-0"



PLAN VIEW - SINGLE LAYER



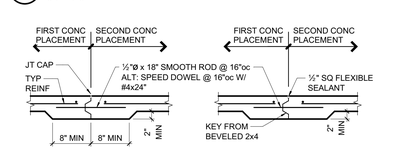
PLAN VIEW - 2 OR MORE LAYERS

NOTE:
FOOTING REINFORCING AT CORNER AND INTERSECTION TO BE SIMILAR

10 TYPICAL CORNER, INTERSECTION AND END REINFORCING
3/4" = 1'-0"

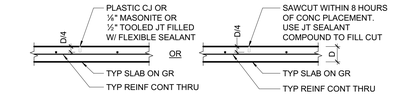
NOTE:
REMOVE ALL EARTH LOOSENED DURING EXCAVATION AND FILL W/ CONCRETE.

5 STEPPED FOOTING
3/4" = 1'-0"



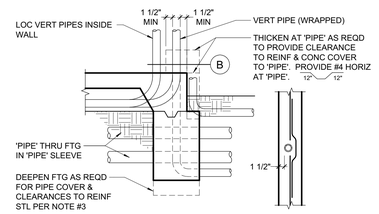
METAL JOINT FORMED JOINT

A CONSTRUCTION/DOWEL JOINT

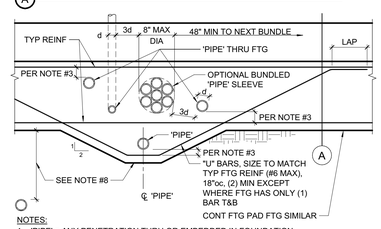


B CONTROL JOINT

6 SLAB ON GRADE JOINTS
3/4" = 1'-0"



B PLAN VIEW



NOTES:

1. 'PIPE' = ANY PENETRATION THRU OR EMBEDDED IN FOUNDATION.
2. ALL PIPES THROUGH FOOTINGS TO BE WRAPPED OR SLEEVED AS FOLLOWS:
   a. SLEEVES: PROVIDE 1" MIN CLEAR ALL AROUND O.D. PIPE TO I.D. SLEEVE, UNO. SEAL SLEEVE ENDS W/ MASTIC OR PLASTIC BITUMINOUS CEMENT.
   b. WRAPPED VERTICAL PIPES: PROVIDE ⅛" NOMINAL SHEET FOAM W/ (3) WRAPS MINIMUM, UNO.
   c. WRAPPED HORIZONTAL PIPES: PROVIDE ⅛" NOMINAL SHEET FOAM W/ (8) WRAPS MINIMUM, UNO.
   d. UNDERGROUND FIRE LINES 4" AND LARGER:
      1. SLEEVES: PROVIDE 2" MIN CLEAR ALL AROUND O.D. PIPE TO I.D. SLEEVE. SEAL ENDS PER ABOVE.
      2. WRAPPED: PROVIDE ¼" NOMINAL SHEET FOAM W/ (16) WRAPS MINIMUM.
3. WRAPPED AND SLEEVED PIPES SHALL HAVE 1½" MIN CLEAR TO REINF STEEL. MINIMUM CONCRETE COVER AT PIPES TO BE 3".
4. CLEARANCE BETWEEN 'PIPES' TO BE 3d MIN TYP W/ A MAXIMUM OF (8) PIPES PER 48". GROUPS OF PIPES MAY BE BUNDLED AS SHOWN, EXCEPT IN PAD FOOTINGS.
5. NO 'PIPE' TO RUN PARALLEL IN FOOTINGS, STEM OR CURB.
6. PVC CONDUIT ('PIPE') EMBEDDED IN CURB/STEM MAY BE WIRE TIED TO HORIZONTAL REINF.
7. NO HORIZONTAL PIPES ALLOWED THROUGH FOOTING WITHIN 2'-0" EACH SIDE OF HOLDOWNS OR STEEL COLUMNS. NO VERTICAL PIPES ALLOWED IN FOOTINGS AT BRACED FRAMES.
8. PROVIDE 18" MIN OF COMPACTED FILL ABOVE PIPES UP TO 12"ø, FOR LARGER PIPES INCREASE COMPACTED FILL DEPTH 1'-0" FOR EACH 6" INCREASE IN PIPE DIAMETER. OTHERWISE DEEPEN FOOTING AS SHOWN.

2 PIPES THRU FOOTING
3/4" = 1'-0"

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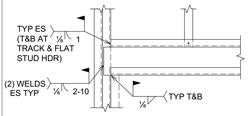
	date	issue description
2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

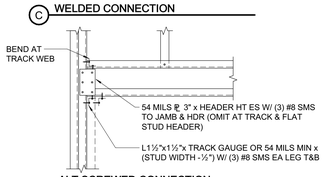
project number: 20-296
date: JUNE 6, 2024

TYPICAL CONCRETE DETAILS

S1.01

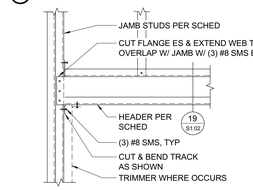


C WELDED CONNECTION



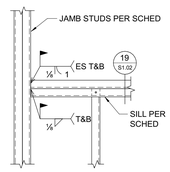
ALT SCREWED CONNECTION (INTERIOR NON-BRG ONLY)

B

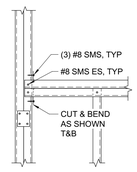


A SCREWED CONNECTION

16 TYPICAL HEADER CONNECTION
1" = 1'-0"



A WELDED CONNECTION

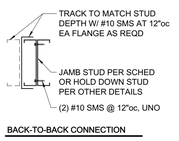


B ALT CONNECTION

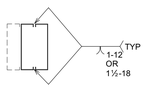
17 TYPICAL SILL CONNECTION
1" = 1'-0"

A

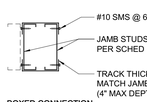
18 BOX HEADER CONN TO STEEL FRAMING
1" = 1'-0"



BACK-TO-BACK CONNECTION



WELDED CONNECTION



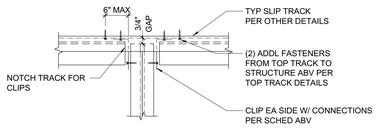
BOXED CONNECTION

A JAMB STUD & MULTI STUD CONFIGURATIONS

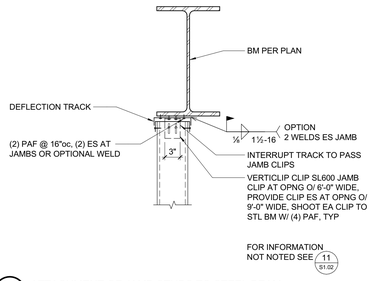
19 TYPICAL NON-BEARING HEADERS AND SILLS
1 1/2" = 1'-0"

CLIP	CONN TO STUD	CONN TO ABV	MIN JAMB STUD THICKNESS	NOTES
SIMPSON SCW	(2) #14	(2) #12	43 MILS	
STL NETWORK SL CLIP	(3) #12	(3) #12	43 MILS	
4"x2"x97MILSx4" CLIP W/ ¼"x2" VSH	(2) #12	(2) #12	43 MILS	

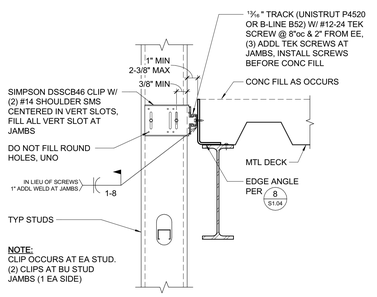
NOTE: PROVIDE CLIP ES JAMB STUD AT ALL OPENING GREATER THAN 4'-0"



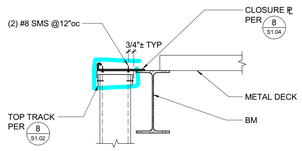
12 JAMB STUD DEFLECTION TRACK
1 1/2" = 1'-0"



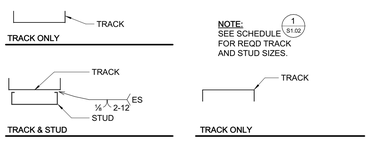
13 ATTACHMENT OF JAMB STUDS TO STEEL BEAM
1" = 1'-0"



14 EXTERIOR BYPASS WALL
1 1/2" = 1'-0"

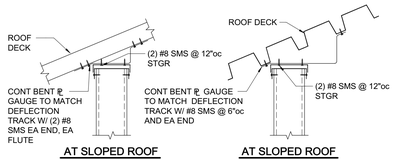


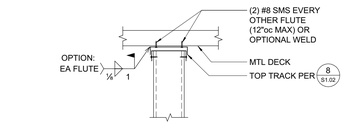
15 TOP OF EXTERIOR WALL
1" = 1'-0"



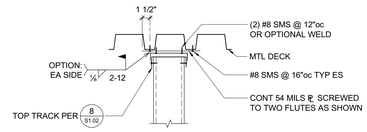
B HEADER CONFIGURATIONS

C SILL CONFIGURATIONS



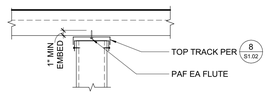


PERPENDICULAR TO FLUTES

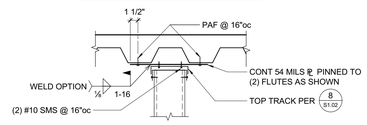


PARALLEL TO FLUTES

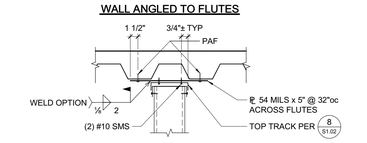
9 ATTACHMENT OF NON-BEARING STUDS TO METAL DECK
1" = 1'-0"



WALL PERPENDICULAR TO FLUTES

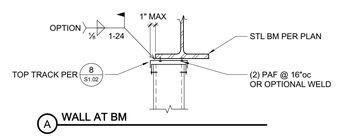


WALL ANGLED TO FLUTES

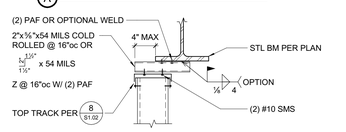


WALL PARALLEL TO FLUTES

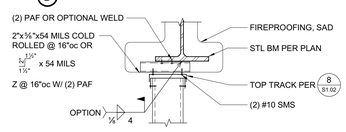
10 ATTACHMENT OF NON-BEARING STUDS TO METAL DECK WITH CONCRETE FILL
1" = 1'-0"



A WALL AT BM

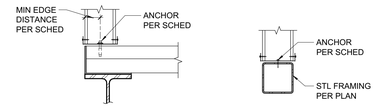


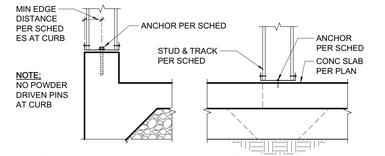
B WALL OFFSET AT BM



C WALL AT BM W/ FIREPROOFING

11 ATTACHMENT OF NON-BEARING STUDS TO STEEL BEAM
1" = 1'-0"

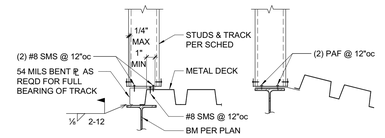




LOCATION	ANCHOR TYPE, DIAMETER AND SPACING				DETAIL
	SCREW ANCHOR	POWDER DRIVEN PINS	EXPANSION ANCHOR	CAST-IN-PLACE	
EXTERIOR WALL SLAB ON GRADE (H=15'-0" MAX)	½"ø @ 32"oc	NOT PERMITTED	½"ø @ 32"oc	½"ø @ 48"oc	A
INTERIOR WALL SLAB ON GRADE	½"ø @ 48"oc	0.157"ø @ 16"oc	½"ø @ 48"oc	½"ø @ 48"oc	B
INTERIOR WALL SLAB ON MTL DECK	¾"ø @ 48"oc	0.157"ø @ 16"oc	¾"ø @ 48"oc	N/A	C
EXTERIOR WALL SLAB ON MTL DECK (H=15'-0" MAX)	¾"ø @ 16"oc	NOT PERMITTED	¾"ø @ 16"oc	N/A	C
STL FRAMING (H=14'-0" MAX)	N/A	0.157"ø @ 16"oc	N/A	N/A	D
MIN CONC EDGE DISTANCE	1¾"	3"	3"	3"	
REF DETAIL & NOTES	13 S1.01	STAGGER PINS	15 S1.01	NOTE #4	

NOTES:
1. PROVIDE (2) ANCHORS MIN PER TRACK SEGMENT.
2. FOUNDATION AND SLAB REINFORCING PER OTHER DETAILS.
3. CENTER FASTENERS W/ TRACK, UNO.
4. SEE PLAN AND SCHEDULE FOR ADDITIONAL ANCHORAGE REQUIREMENTS, AS OCCURS.
5. PROVIDE ANCHOR EACH END OF TRACK. END DISTANCE MIN 1½" AND MAX 3" OR MIN CONCRETE EDGE DISTANCE AS OCCURS.

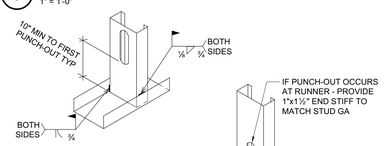
4 TYPICAL BOTTOM TRACK ANCHORS AT CONCRETE AND STEEL
1" = 1'-0"



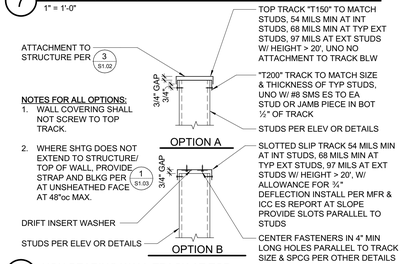
PARALLEL TO DECK

PERPENDICULAR TO ROOF DECK

6 ATTACHMENT OF STUDS TO METAL DECK
1" = 1'-0"



7 STUD OR JOIST TO TRACK
1" = 1'-0"

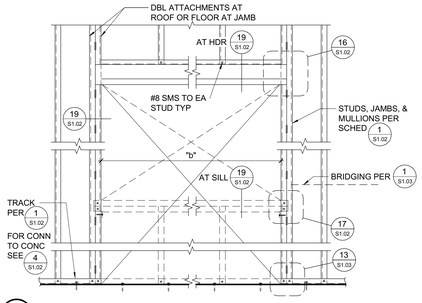


8 NON-BEARING WALL TRACK AT TOP
1" = 1'-0"

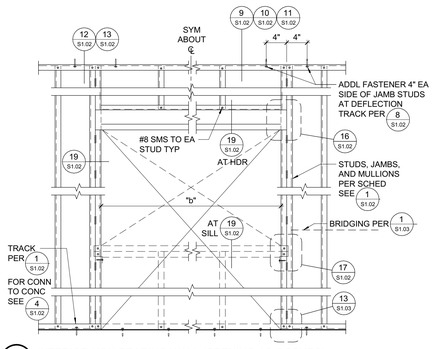
COLD FORMED FRAMING SCHEDULE				
LOCATION	MINIMUM MEMBER SIZE	MAX SPAN/LENGTH	MAX SPACING UNO	REFERENCE DETAIL
EXTERIOR STUDS	600S162-43	17'-0"	16"oc	
	(2) 600S162-43	25'-0"	16"oc	
	(3) 600S162-43	30'-0"	16"oc	
EXTERIOR HEADERS	(2) 600S162-43 STUDS AND (2) 600T150-43 TRACKS	b ≤ 4'-0"		SEE 19 S1.02
EXTERIOR SILLS	600T150-43	b ≤ 4'-0"		
EXTERIOR JAMBS	(2) 600S162-43	17'-0"	b ≤ 4'-0"	SEE 19 S1.02
	(3) 600S162-43	25'-0"	b ≤ 4'-0"	
	(3) 600S162-43	30'-0"	b ≤ 3'-0"	
PARAPET SILLS	600S162-54 STUD AND 600T150-54 TRACK			SEE 19 S1.02
INTERIOR STUDS	400S162-33	17'-0"	16"oc	
	600S162-33	17'-0"	16"oc	
	(2) 600S162-33	32'-0"	16"oc	
INTERIOR STUDS W/ SHELVING OR EQUIPMENT ANCHORAGE	400S162-54	17'-0"	16"oc	
	600S162-54	17'-0"	16"oc	
INTERIOR HEADERS	(2) 400S162-33 STUDS AND (2) 400T150-33 TRACKS	b ≤ 8'-0"		SEE 19 S1.02
INTERIOR SILLS	400T150-43 (OR 600T150-43)	b ≤ 8'-0"		
INTERIOR JAMBS	(2) 400S162-43 (OR (2) 600S162-33)	17'-0"	b ≤ 8'-0"	SEE 19 S1.02
	400S162-33	15'-0"	b ≤ 4'-0"	
CEILING JOISTS	600S162-43	15'-0"	16"oc	
CEILING HANGERS	400S162-43	h ≤ 6'-0"		SEE 9 S1.03
	400S162-43 & 400T150-43	h ≤ 8'-0"		
EAVE SOFFIT JOISTS	400S162-54	9'-6"	16"oc	

1. TYPICAL TRACKS TO BE SAME GAUGE AS STUD, 43 MIL MIN (UNO). SILL TRACKS AT BASE OF EXTERIOR WALLS TO BE 54 MILS (UNO). FLANGES TO BE 1½" MIN.
2. AT EXTERIOR WALL W/ BUMP OUT BOTH MAIN WALL & FURRING WALL ARE EXTERIOR STUDS. PROVIDE BRIDGING @ 4'-0"oc MAX PER 1/S1.03 AT BOTH WALLS.
3. A WALL W/ ANY PORTION HAVING EXTERIOR EXPOSURE SHALL BE FRAMED ENTIRELY AS AN EXTERIOR WALL.
4. MULTIPLE ADJACENT WINDOWS TO EACH HAVE INDIVIDUAL HEADERS AND FULL JAMB STUDS BETWEEN WINDOWS.
5. TYP WALL BRIDGING/BLKG PER 1/S1.03 .
6. TYP STUD/JOIST TO TRACK PER 7/S1.02 .
7. COORDINATE STUD DEPTH W/ ARCH DRAWINGS. INCREASE MIN HDR, SILL OR JAMB MEMBER DEPTHS AS REQD TO MATCH ACTUAL WALL STUD DEPTH.
8. "b" INDICATES OPENING WIDTH PER 2/S1.02 OR 3/S1.02 .
9. JAMBS TO CONTINUE TO FOUNDATION AT MULTI-STORY CONDITIONS.
10. METAL STUD SECTIONS THAT ARE PART OF BUILT-UP HEADERS SHALL BE UNPUNCHED.

1 SCHEDULE - COLD FORMED METAL FRAMING, UNO
3/4" = 1'-0"



2 EXTERIOR NON-BEARING WALL (OPENING AS OCCURS)
1" = 1'-0"



3 INTERIOR NON-BEARING WALL (OPENING AS OCCURS)
1" = 1'-0"

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file: Autodesk Docs://chabot m&o/20635_Chabot 2-Story_S22.rvt
12/12/2024 9:53:35 AM

DSA
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-121159 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 2/19/2025

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Oakland, CA 94612
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REGISTERED PROFESSIONAL ENGINEER ANGELA M. SOMMER STRUCTURAL No. 6013 STATE OF CALIFORNIA

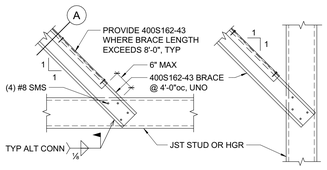
#	date	issue description
2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

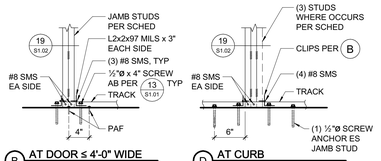
project number: 20-296
date: JUNE 6, 2024

TYPICAL CFS ELEVATION AND CONNECTION DETAILS

S1.02

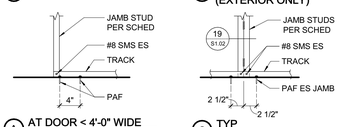


12 TYPICAL BRACE CONNECTIONS
1" = 1'-0"



B AT DOOR ≤ 4'-0" WIDE

D AT CURB (EXTERIOR ONLY)

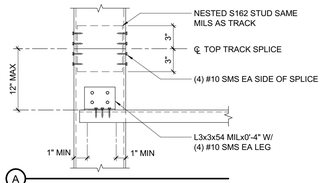


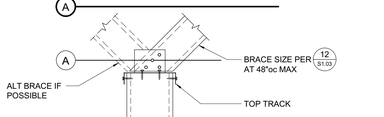
A AT DOOR < 4'-0" WIDE (INTERIOR ONLY)

C TYP (INTERIOR ONLY)

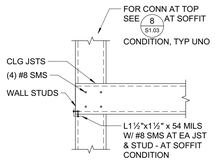
FOR INFORMATION NOT NOTED SEE 3 S1.02

13 JAMB STUD BASE
1" = 1'-0"

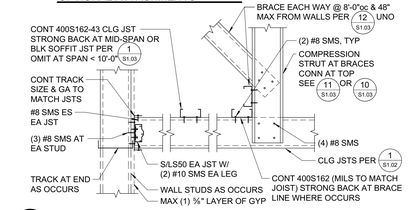




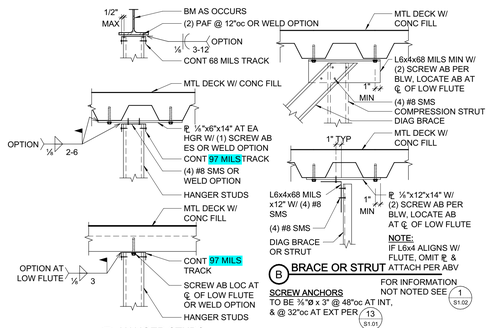
8 TYPICAL BRACE AT TOP OF PARTIAL HT WALL
1 1/2" = 1'-0"



OPTIONAL ATTACHMENTS

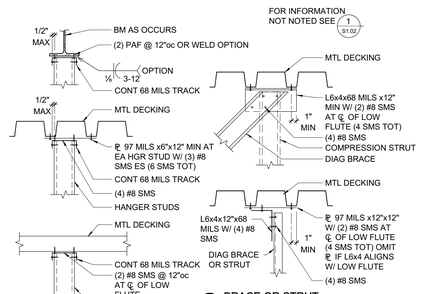


9 TYPICAL CEILING JOIST FRMG AT FULL HEIGHT METAL STUDS
1" = 1'-0"



A HANGER STUDS
B BRACE OR STRUT

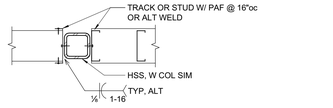
10 HANGERS & BRACES AT METAL DECK WITH CONC FILL
1" = 1'-0"



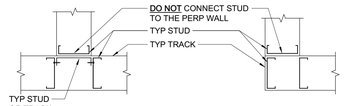
A HANGER STUDS
B BRACE OR STRUT

NOTE: PROVIDE LOCK WASHERS AT SMS SCREWS TO FRAMING ABOVE, TYP

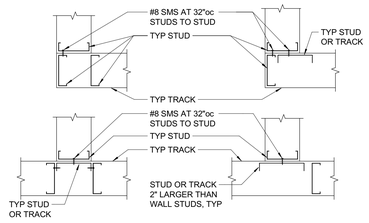
11 HANGERS & BRACES AT METAL DECK
1" = 1'-0"



AT STEEL COL

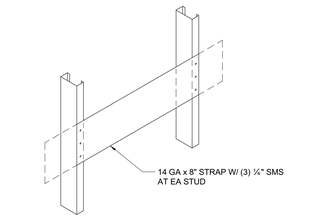


AT TYPICAL EXTERIOR WALLS

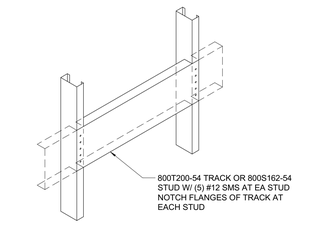


AT TYPICAL INTERIOR WALLS

4 TYPICAL CORNERS AND INTERSECTIONS
1" = 1'-0"

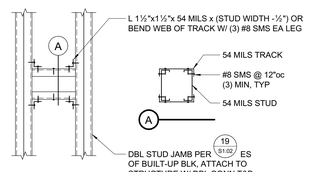


TYPE 1
(MAX LOAD 50 PLF)

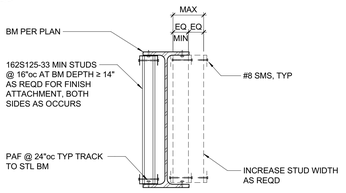


TYPE 2
(MAX LOAD 200 PLF)

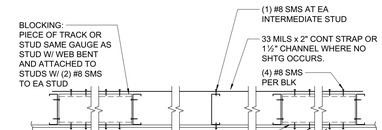
5 WALL BACKING PLATE
1" = 1'-0"



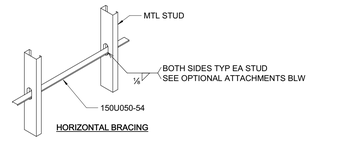
6 HEAVY DUTY WALL BACKING PLATE
1" = 1'-0"



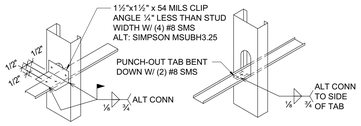
7 INFILL AT STEEL BEAM
1 1/2" = 1'-0"



OPTION 2



HORIZONTAL BRACING



OPTIONAL ATTACHMENT A OPTIONAL ATTACHMENT B

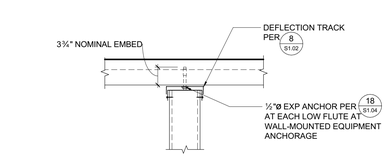
OPTION 1

NOTES:
1. BRIDGING MAY BE PER OPTION 1 OR 2.
2. PROVIDE BRIDGING @ 4'-0"oc.
3. BRIDGING IS NOT REQUIRED WHERE PROPERLY ATTACHED SHEATHING (NOT GYP) OCCURS ON BOTH SIDES OF STUDS.
4. 8" MAX STUD DEPTH.
5. PROVIDE BLOCKING PER OPTION 2 AT LOCATIONS INDICATED ON DRAWINGS OR OTHER DETAILS.
6. GENERAL CONTRACTOR TO COORDINATE BRIDGING LOCATIONS WITH MEP.

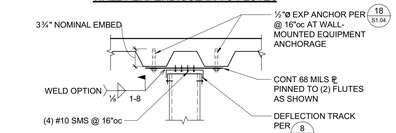
1 WALL BRIDGING/BLOCKING
1" = 1'-0"

TYP STUD/TRACK PUNCHOUT

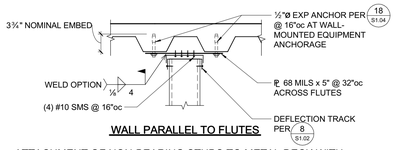
2 TYPICAL STUD PUNCHOUT
1" = 1'-0"



WALL PERPENDICULAR TO FLUTES



WALL ANGLED TO FLUTES



WALL PARALLEL TO FLUTES

3 ATTACHMENT OF NON-BEARING STUDS TO METAL DECK WITH CONCRETE FILL AT EQUIPMENT ANCHORAGE
1" = 1'-0"

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APP: 01-121159 INC:
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DATE: 2/19/2025

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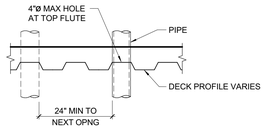
#	date	issue description
2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

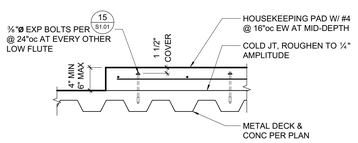
project number: 20-296
date: JUNE 6, 2024

TYPICAL CFS SOFFIT & MISCELLANEOUS DETAILS

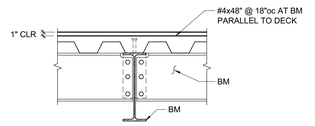
S1.03



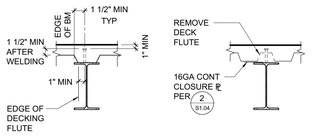
14 TYPICAL UNREINFORCED OPENING IN DECK (≤ 4")
3/4" = 1'-0"



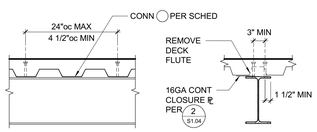
15 TYPICAL HOUSEKEEPING PAD ON DECK WITH CONCRETE FILL
3/4" = 1'-0"



16 TYPICAL ADDL DECK SLAB REINF OVER PARALLEL BEAMS
3/4" = 1'-0"



LOW FLUTE AT PARALLEL BM | SPLIT DECK AT PARALLEL BM

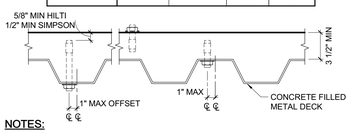


DOUBLE ROW

NOTES:
1. (#) DENOTES QUANTITY OF ¾"ø SHEAR STUDS ON BEAM. PROVIDE ADDITIONAL STUDS WHERE REQUIRED TO MAINTAIN MAX SPACING.
2. WHERE DECK IS PERPENDICULAR (OR AT AN ANGLE) TO BEAM, START SHEAR STUD LAYOUT AT FIRST LOW FLUTE AT EACH END OF BEAM. WHEN ALL LOW FLUTES ARE FULL, REMAINING STUDS SHALL BE PLACED IN DOUBLE ROWS STARTING AT FIRST LOW FLUTE FROM EACH END OF BEAM.
3. WHERE DECK IS PARALLEL TO BEAM, SHEAR STUD LAYOUT SHALL BE EQUALLY SPACED SINGLE ROW OR DBL ROW AS REQUIRED TO MAINTAIN MIN SPACING.
4. IF FLANGE IS LESS THAN ⅜" THK PLACE SHEAR STUD AT WEB ℄ ONLY.
5. NO CONSTRUCTION JOINTS ALLOWED PARALLEL TO AND WITHIN 4'-0" OF STUDS.
6. SEE 16/S1.04 OTHERWISE.

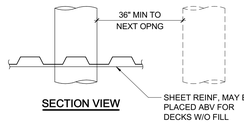
17 TYPICAL COMPOSITE BEAM SHEAR STUDS
3/4" = 1'-0"

CARBON STEEL EXPANSION ANCHOR IN 3000 PSI MIN CONC				
ANCHOR TYPE	ANCHOR AND PILOT HOLE DIA	MINIMUM EMBEDMENT H_{nom}	MINIMUM SPCG S_{min}	INSTALL TORQUE (FT-LB)
SIMPSON STRONG-BOLT 2 (ICC-ESR 3037)	⅜"	1⅞"	3"	30
	½"	2¾"	6"	60
HILTI KB1 (IAMPO-ER 678)	⅜"	1⅞"	8"	20
	½"	2¾"	8½"	40

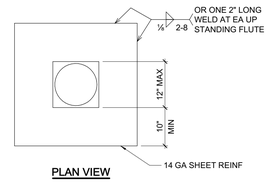


NOTES:
1. INSTALL EXPANSION ANCHORS PER MANUFACTURER'S INFORMATION AND ICC REPORT INSTRUCTIONS. SPECIAL INSPECTION IS REQUIRED PER SECTION 1705A OF THE CBC AND THE REQUIREMENTS OF THE ICC REPORTS. INSTALLED ANCHORS SHALL BRING CONNECTED PLIES INTO FIRM CONTACT, MEETING THE INSTALL TORQUE BUT NOT EXCEEDING THE MAXIMUM INSTALL TORQUE.
2. CONTRACTOR TO VERIFY MINIMUM EDGE DISTANCES, SPACING AND THICKNESS ARE IN ACCORDANCE W/ SCHEDULE PRIOR TO INSTALLING ANCHOR.
3. HOLES TO BE DRILLED W/ ROTARY DRILL ONLY. WHEN INSTALLING DRILLED-IN ANCHORS IN EXISTING REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN 1" CLEARANCE BETWEEN REINFORCEMENT AND THE DRILLED-IN ANCHOR. FILL ABANDONED HOLES W/ HIGH STRENGTH GROUT.
4. THE SPECIAL INSPECTOR SHALL PERFORM PERIODIC INSPECTION IN ACCORDANCE WITH TABLE 1705A.3. THE SPECIAL INSPECTOR SHALL INSPECT ANCHOR TYPE, ANCHOR DIMENSIONS, HOLE CLEANLINESS, EMBEDMENT DEPTH, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, DRILL BIT DIAMETER, HOLE DEPTH, EDGE DISTANCE(S), ANCHOR SPACING(S), CONCRETE THICKNESS, AND TIGHTENING TORQUE.
5. TEST ANCHORS IN ACCORDANCE W/ CBC SECTION 1910A.5.

18 EXPANSION ANCHOR TO DECK
1 1/2" = 1'-0"

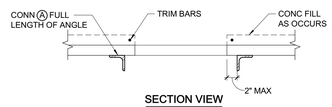


SECTION VIEW

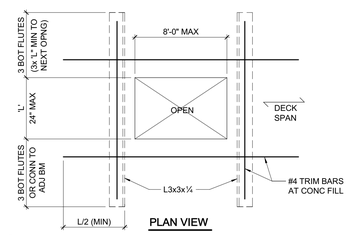


PLAN VIEW

9 TYPICAL REINFORCED OPENING IN DECK (LESS THAN 12")
3/4" = 1'-0"

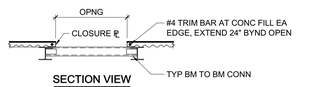


SECTION VIEW

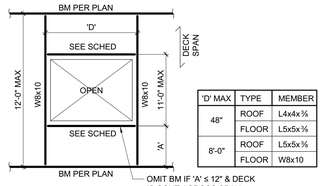


PLAN VIEW

10 TYPICAL REINFORCED OPENING IN DECK (LESS THAN 24")
1" = 1'-0"



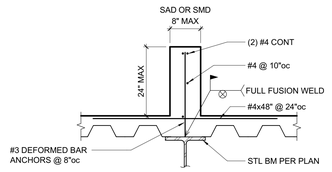
SECTION VIEW



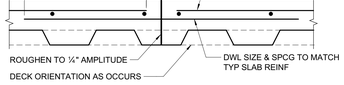
'D' MAX	TYPE	MEMBER
48"	ROOF	L4x4x⅜
	FLOOR	L5x5x⅜
8'-0"	ROOF	L5x5x⅜
	FLOOR	W8x10

PLAN VIEW

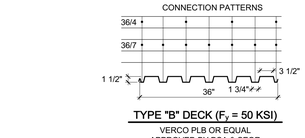
11 TYPICAL FRAMED OPENING IN DECK (LESS THAN 11'-0")
1" = 1'-0"



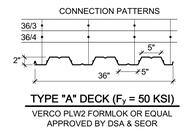
12 TYPICAL CURB ON DECK WITH CONCRETE FILL
3/4" = 1'-0"



13 CONC ON METAL DECK CONSTRUCTION JOINT
1 1/2" = 1'-0"



TYPE "B" DECK (F_y = 50 KSI)
VERCO PLB OR EQUAL
APPROVED BY DSA & SEOR



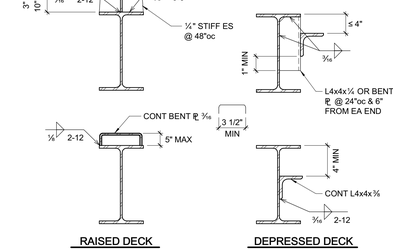
TYPE "A" DECK (F_y = 50 KSI)
VERCO PLW2 FORMLOK OR EQUAL
APPROVED BY DSA & SEOR

5 DECKING TYPE AND CONNECTION PATTERN
3/4" = 1'-0"

MARK	STEEL DECK GAGE & PROFILE TYPE SEE 5/S1.04	DECK CONNECTIONS						MINIMUM SLAB FILL THICKNESS ABV DECK	MINIMUM SLAB FILL REINFORCING	REMARKS
		END/INT BEARING CONN Ⓐ		SIDE BEARING CONN Ⓑ		SIDELAP CONNECTION Ⓒ				
		SIZE & TYPE	PATTERN	SIZE & TYPE	SPACING	SIZE & TYPE	SPACING			
1	B - 18 GA	PINS	36/4	PINS	12"	VSC2	12"	NO CONCRETE COVER. SAD FOR INSUL	N/A	LOW ROOF & ELEVATOR ROOF
2	B - 18 GA	PINS	36/4 AT ☐ 36/7 AT ▨	PINS	12" AT ☐ 8" AT ▨	VSC2	12" AT ☐ 8" AT ▨	NO CONCRETE COVER. SAD FOR INSUL	N/A	HIGH ROOF
3	A - 18 GA	PINS	36/4	PINS	12"	SCREWS	12"	3½" CONCRETE MIN (5½" TOT THICKNESS MIN)	#3 @ 16"oc EW AT MID HEIGHT	FLOOR
4	B - 18 GA	SCREWS	36/4	SCREWS	12"	VSC2	12"	NO CONCRETE COVER. SAD FOR INSUL	N/A	MECHANICAL WELL & CANOPIES
5	B - 18 GA	PINS	36/4	PINS	12"	1½" TSW	12"	2½" CONCRETE MIN (4" TOT THICKNESS MIN)	#3 @ 16"oc EW AT MID HEIGHT	AT STAIRS

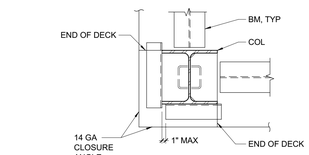
NOTES:
1. ATTACH DECK TO ALL STEEL SUPPORT FRAMING AS OCCURS.
2. VSC2 = VERCO SIDE LAP CONNECTION.
3. PINS = HILTI X-ENP-19 L15 PER ICC ESR-2197 AND ESR-2776.
4. BEARING CONNECTION SCREWS = HILTI S-MD #12, OR #12 SELF-DRILLING OR SELF-PIERCING SCREWS PER ASTM C1513.
5. SIDELAP SCREWS = HILTI S-SLC01, HILTI S-SLC02, OR #12 SELF-DRILLING OR SELF-PIERCING SCREWS PER ASTM C1513. PROVIDE NEOPRENE WASHERS AT DECK EXPOSED TO RAIN.
6. ABOVE REFERENCED DECKS AND COMPOSITE DEPTHS ARE BASED ON ALLOWABLE DESIGN LOADS PER IAPMO ER-2018 VERCO MANUFACTURING - EQUIVALENT DECK MUST HAVE EQUIVALENT ALLOWABLE VERTICAL LOADS, DIAPHRAGM SHEAR VALUES, AND FLEXIBILITY FACTORS. ALTERNATIVE DECKS MUST BE APPROVED BY DSA & THE SEOR BEFORE INSTALLATION.
7. DECK UNITS SHALL BE SUPPLIED TO SPAN OVER THE MAXIMUM NUMBER OF SUPPORT PRACTICAL. UN-TOPPED ROOF DECK SHALL SPAN A MINIMUM OF (2) BAYS. FLOOR DECK WITH CONCRETE FILL SHALL SPAN A MINIMUM OF (1) BAY.
8. SHORING OF CONCRETE FILLED METAL DECK NOT REQUIRED AT 3 SPAN CONDITIONS. AT CONTRACTOR'S OPTION, HEAVIER DECK MAY BE USED TO AVOID SHORING PER SEOR WRITTEN APPROVAL. SHORING OF UNTOPPED METAL DECK NOT REQUIRED UNLESS SPECIFICALLY NOTED OTHERWISE.
9. PROVIDE EXTRA CONCRETE TOPPING TO PROVIDE FLAT LEVEL SURFACE, 1" MAX AT DECK MIDSPAN, 0" MAX OVER STEEL BEAMS, AVERAGE EXTRA CONCRETE ½" MAX.
10. WHERE A WELDED HEADED STUD OCCURS COINCIDENT WITH A TYPE 'A' DECK ATTACHMENT, THE TYPE 'A' ATTACHMENT MAY BE OMITTED.
11. NO CONTROL JOINTS IN CONCRETE OVER METAL DECK ALLOWED. PROVIDE CONSTRUCTION JOINTS AT 200 FEET ON -CENTER MAX PER 13/S1.04.
12. HORIZONTAL CONDUIT, PIPING, RADIANT HEATING TUBING, ETC NOT PERMITTED WITHIN CONCRETE TOPPING.
13. AT METAL DECK WITH EXTERIOR EXPOSURE AND NO ROOFING, SUCH AS AT RAIN/SHADE CANOPIES OR TRASH ENCLOSURE ROOFS, PROVIDE G90 GALVANIZATION.

1 DECKING SCHEDULE
3/4" = 1'-0"

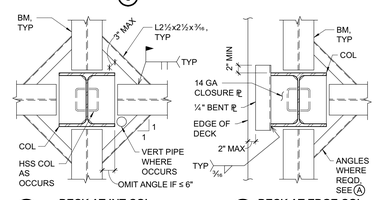


RAISED DECK | DEPRESSED DECK

6 TYPICAL RAISED AND DEPRESSED DECK SUPPORT
1 1/2" = 1'-0"

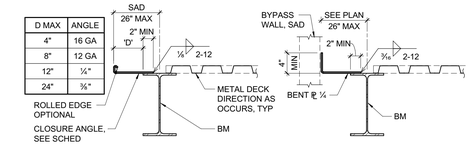


C DECK AT CORNER COL

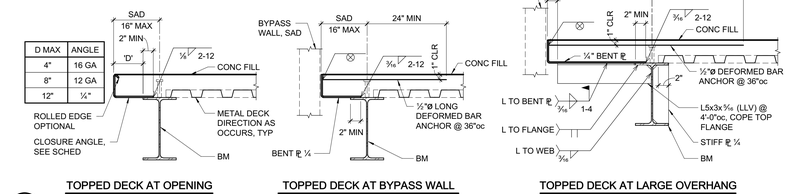


A DECK AT INT COL | B DECK AT EDGE COL

7 TYPICAL DECK SUPPORT AT COLUMN
3/4" = 1'-0"

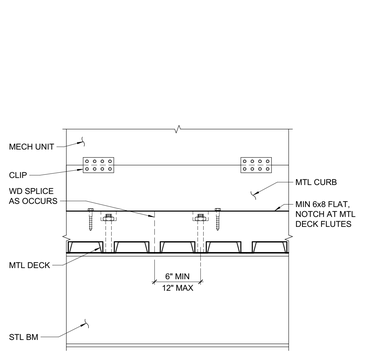


UNTOPPED DECK AT OPENING | UNTOPPED DECK AT BYPASS WALL

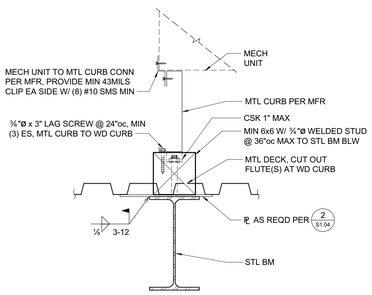


TOPPED DECK AT OPENING | TOPPED DECK AT BYPASS WALL | TOPPED DECK AT LARGE OVERHANG

8 TYPICAL EDGE OF DECK
1" = 1'-0"



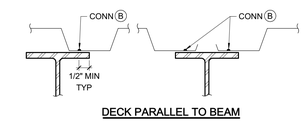
CURB PERPENDICULAR TO FLUTES



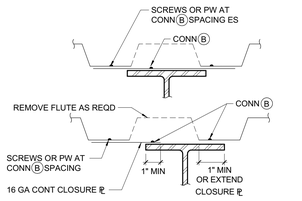
CURB PARALLEL TO FLUTES

NOTE:
1. WOOD SHALL BE PROTECTED FROM WEATHER BY ROOFING. IF LEFT EXPOSED, WOOD SHALL BE PTDF.
2. MAX MECHANICAL UNIT WEIGHT OF 1050#.

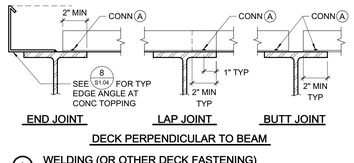
4 MECHANICAL UNIT CURB SUPPORT
1 1/2" = 1'-0"



DECK PARALLEL TO BEAM



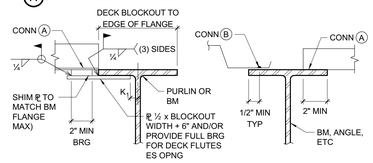
SPLIT DECK AT PARALLEL BEAM



END JOINT | LAP JOINT | BUTT JOINT

DECK PERPENDICULAR TO BEAM

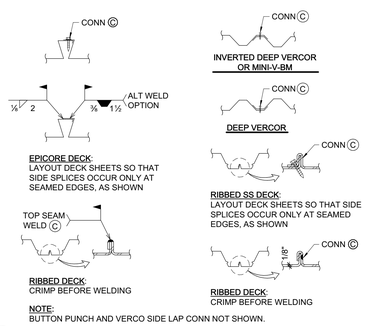
A WELDING (OR OTHER DECK FASTENING)



END BEARING AT BLOCKOUT (18" MAX) | CHANGE IN DIRECTION

NOTES:
1. WELD OR DECK FASTENERS PER SCHEDULE. FOR DECKING SCHEDULE SEE 1/S1.04 . AS SHOWN IN THIS DETAIL, PROVIDE ARC SEAM WELD "◯" AT SAME SPACING AS ARC SPOT WELD "◯" PER 1/S1.04

2 TYPICAL STEEL DECK SUPPORT AND WELDING
3/4" = 1'-0"



NOTE:
BUTTON PUNCH AND VERCO SIDE LAP CONN NOT SHOWN.

3 TYPICAL DECK SIDE LAP CONNECTION
3" = 1'-0"

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#	date	issue description
2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
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	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: JUNE 6, 2024

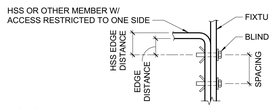
TYPICAL METAL DECKING DETAILS

S1.04

HDG STRUCTURAL STEEL BLIND FASTENER

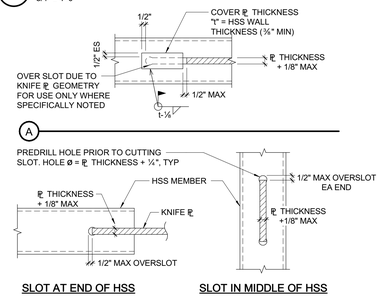
FASTENER TYPE	NOMINAL FASTENER DIAMETER (IN)	HOLE SIZE (IN)	INSTALL / TEST TORQUE (FT-LB)	MIN, MAX CLAMPING THICKNESS (IN) SPCG	MIN FIXTURE THICKNESS (IN)	MIN SPACING (IN)	MIN EDGE DISTANCE (IN)	MIN HSS EDGE DISTANCE (IN)
LINDAPTER HOLLO-BOLT MODEL LHBMxdHDG (ICC ESR-3330)*	5/16	3/8	17	1/8, 2 3/8	N/A	1 3/8	1/2	1/16
	3/8	1/4	33	1/8, 2 3/8	N/A	1 5/8	5/8	1/8
	1/2	17/32	59	1/8, 2 1/2	N/A	2	1 1/16	1
	5/8	1 1/16	140	1/8, 2 13/16	5/8	2 3/4	1 5/16	1 5/16
	3/4	4 5/16	221	1/2, 3 3/8	3/8	2 3/4	1	1 1/16
LNA SOLUTIONS BOXBOLT TYPE C MODEL xxxFALxxC (ICC ESR-3217)*	1/2	17/32	60	1/2, 2 1/16	N/A	2 1/16	1 1/8	N/A
	5/8	1 1/16	140	5/8, 3 1/16	N/A	2 1/16	1 1/8	N/A
	3/4	1 5/16	220	3/4, 4	N/A	3 1/16	1 1/4	N/A

*BOXBOLTS MAY BE USED IN SLIP CRITICAL (SC) APPLICATIONS.
HOLLO-BOLTS SHALL NOT BE USED IN SLIP CRITICAL (SC) APPLICATIONS.

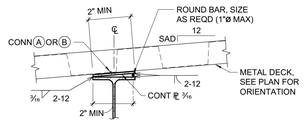


NOTES:
1. INSTALL BLIND FASTENERS PER MANUFACTURER'S INFORMATION AND ICC REPORT INSTRUCTIONS. SPECIAL INSPECTION IS REQUIRED PER SECTION 1705A OF THE CBC AND THE REQUIREMENTS OF THE ICC REPORTS.
2. CONTRACTOR TO VERIFY MINIMUM EDGE DISTANCES, SPACING AND THICKNESS ARE IN ACCORDANCE W/ SCHEDULE PRIOR TO INSTALLING FASTENER.
3. SELECT APPROPRIATE FASTENER LENGTH FOR TOTAL THICKNESS OF PLIES BEING FASTENED. THERE SHALL BE NO GAP BETWEEN FASTENED PLIES. THERE SHALL BE NO GAP BETWEEN FASTENER COLLAR AND THE FIXTURE. INSTALL FASTENER WITH OPEN END WRENCH AND TORQUE WRENCH, THEN REMOVE OPEN END WRENCH TO VERIFY INSTALLATION TORQUE ACHIEVED.
4. THE SPECIAL INSPECTOR SHALL PERFORM PERIODIC/CONTINUOUS INSPECTION IN ACCORDANCE WITH AISC 360, SIMILAR TO HIGH STRENGTH BOLTS.
5. THESE FASTENERS ARE ONLY FOR USE WHERE SPECIFICALLY NOTED ON THE DRAWINGS.

18 BLIND FASTENERS TO STEEL
3/4" = 1'-0"

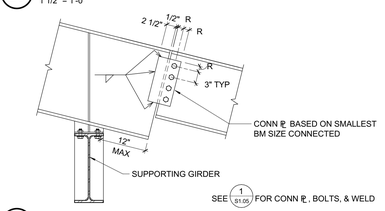


19 TYPICAL SLOTTED HSS FOR GUSSET CONNECTION
1 1/2" = 1'-0"

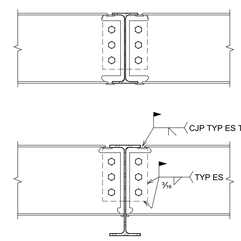


NOTE:
OMIT ADDITIONAL BEARING ℄ WHERE DECK SLOPE < ¼" PER 12"

20 TYPICAL SLOPED DECK SUPPORT
1 1/2" = 1'-0"



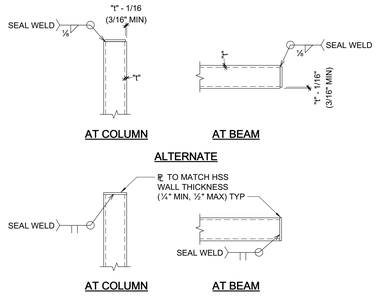
21 BEAM END TO END CONNECTION
3/4" = 1'-0"



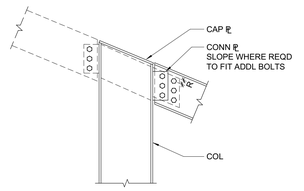
NOTES:
1. CANTILEVER BEAM SIZE TO MATCH ADJACENT BACK SPAN BEAM SIZE, UNO.
2. SHORE CANTILEVER AS REQUIRED.
3. REMOVE BACKER BARS WHERE EXPOSED TO VIEW.

FOR INFORMATION NOT NOTED SEE 2 S1.05

14 BEAM TO BEAM MOMENT CONNECTION
1" = 1'-0"

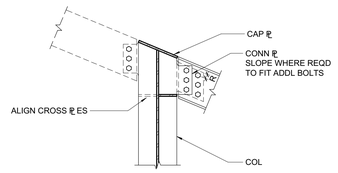


15 TYPICAL CAP PLATE
3/4" = 1'-0"



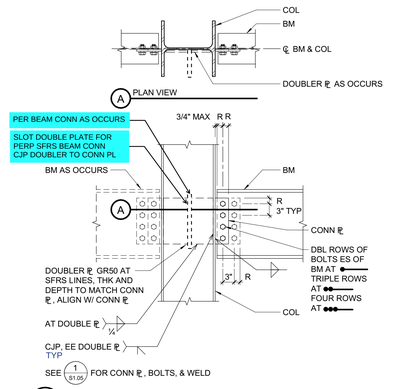
FOR INFORMATION NOT NOTED SEE 12 S1.05

16 SLOPED BEAM TO COLUMN CONNECTION
3/4" = 1'-0"



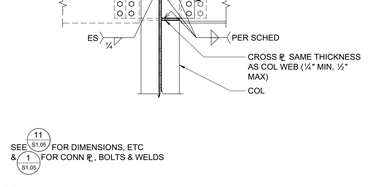
FOR INFORMATION NOT NOTED SEE 13 S1.05

17 BEAM TO COLUMN CONNECTION
3/4" = 1'-0"



SEE 1 S1.05 FOR CONN ℄, BOLTS, & WELD

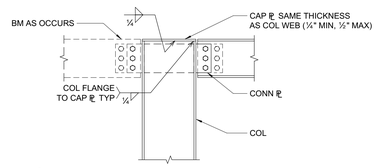
10 BEAM TO COLUMN FLANGE CONNECTION
3/4" = 1'-0"



NOTE:
WHERE CONTINUITY PLATES CONFLICT W/ THIS DETAIL, USE THICKER PLATE & DEEPEN CONNECTION ℄ AS SHOWN DASHED

SEE 1 S1.05 FOR CONN ℄, BOLTS, & WELD

11 BEAM TO COLUMN WEB
3/4" = 1'-0"

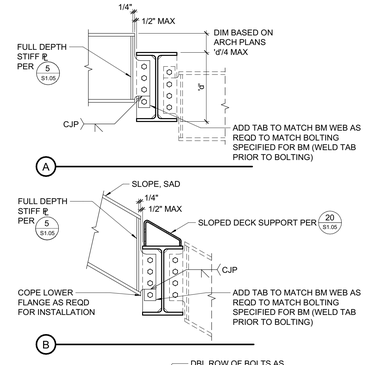


SEE 10 S1.05 FOR DIMENSIONS, ETC
& 1 S1.05 FOR CONN ℄, BOLTS & WELDS

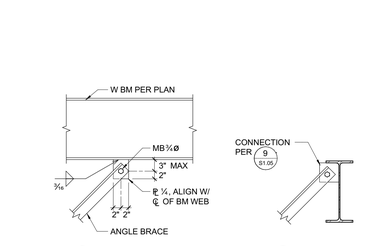
12 BEAM TO COLUMN CONNECTION
3/4" = 1'-0"

SEE 11 S1.05 FOR DIMENSIONS, ETC
& 1 S1.05 FOR CONN ℄, BOLTS & WELDS

13 BEAM TO COLUMN CONNECTION
3/4" = 1'-0"



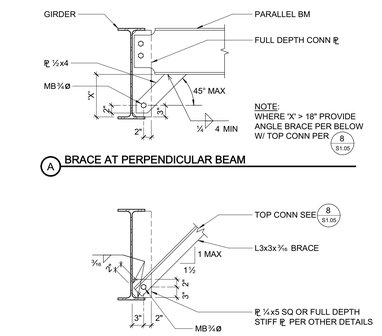
6 TYPICAL BEAM TO BEAM CONNECTIONS
3/4" = 1'-0"



SEE 1 S1.05 FOR CONN ℄, BOLTS, & WELD

7 SKEWED BEAM CONNECTION - AT WEB
1 1/2" = 1'-0"

8 TOP OF BRACE
3/4" = 1'-0"

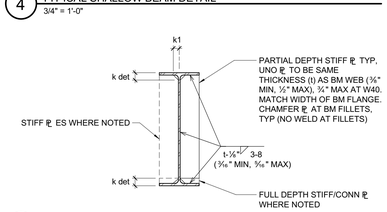


9 TYPICAL BEAM BOTTOM FLANGE BRACE
3/4" = 1'-0"

BEAM DEPTH	LOCATION	NO. BOLTS PER ROW †	CONN PLATE	WELD SIZE
W8, W10	TYP	2	℄ ⅜	5/16"
W12, W14	TYP	3	℄ ½	5/16"
W12, W14	LINE 1	3	℄ ¾	½"
W16	TYP	4	℄ ½	5/16"
W18	TYP	5	℄ ¾	½"
W21	TYP	5	℄ ¾	½"
W24	TYP	6	℄ ¾	½"

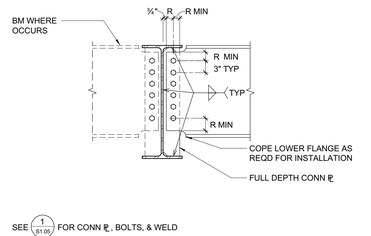
NOTES:
1. R = 1¾" SEE TYP CONNECTION DETAILS. BOLT SPACING AND EDGE DISTANCE SHALL CONFORM TO AISC SPECIFICATIONS.
2. GRADE 325-N ⅞"ø HIGH STRENGTH BOLTS (HSB) UNO. PREPARE MATING SURFACES & TIGHTEN "SNUG TIGHT" AS DEFINED IN THE SPECIFICATIONS. AT LINES MARKED "SFRS" (SEISMIC FORCE RESISTING SYSTEM) HSB AND MATING SURFACES ARE SLIP CRITICAL CLASS A, UNO.
3. USE ASTM GR 50 CONNECTION PLATES, UNO.
4. A COMPLETE PENETRATION BEVEL WELD MAY BE SUBSTITUTED FOR THE FILLET WELDS SPECIFIED.
5. HOLE SIZE = BOLT SIZE + 1/16" (BOLT SIZE + 1/8" FOR 1"ø AND LARGER BOLTS). SHORT SLOTTED HOLES (+1/16" VERT, + 1/4" HORIZ) MAY BE SUBSTITUTED (EXCEPT AS NOTED) ROUND HOLES ARE REQUIRED AT SFRS CONNECTIONS.
6. USE SAME CONNECTIONS AT CHANNELS. FOR W6, C6 & ANGLES USE PLATE, WELD & BOLT SIZE PER W8 & SEE 4/S1.05.
7. SKEWED BEAM CONNECTION WELDS ARE PER 7/S1.05 TYPICAL.

1 ⅞"Ø HIGH STRENGTH BOLT (HSB) CONNECTION SCHEDULE
3/4" = 1'-0"



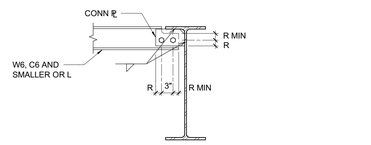
SEE 1 S1.05 FOR CONN ℄, BOLTS, & WELD

2 TYPICAL BEAM TO BEAM CONNECTION
3/4" = 1'-0"



SEE 1 S1.05 FOR CONN ℄, BOLTS, & WELD

3 TYPICAL FULL DEPTH BEAM TO BEAM CONNECTION
3/4" = 1'-0"



SEE 1 S1.05 FOR CONN ℄, BOLTS, & WELD

4 TYPICAL SHALLOW BEAM DETAIL
3/4" = 1'-0"

5 TYPICAL BEAM WEB STIFFENER PLATE DETAIL
3/4" = 1'-0"

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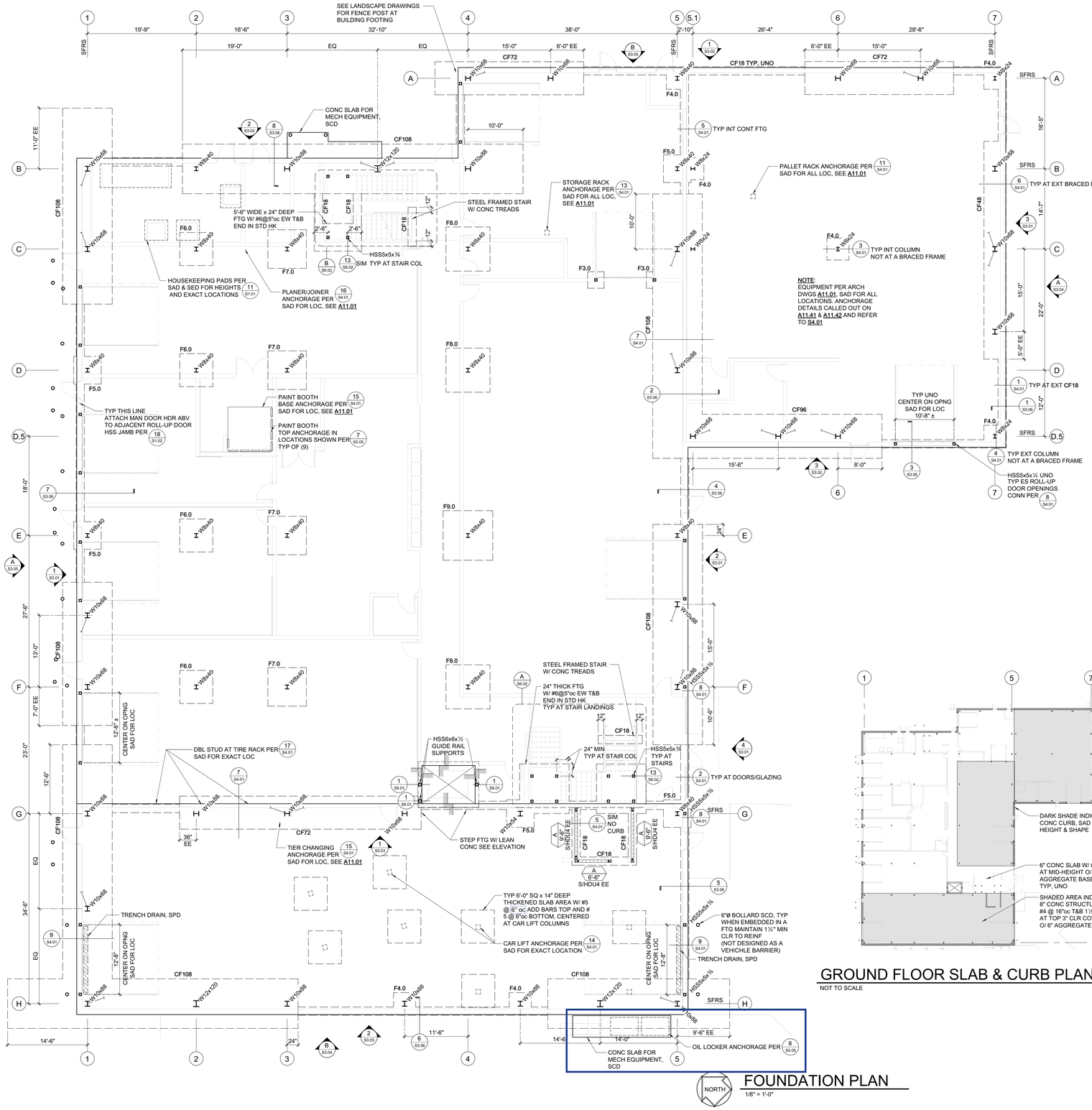
project number: 20-296
date: JUNE 6, 2024

TYPICAL STEEL FRAMING DETAILS

S1.05



FOUNDATION PLAN

1/8" = 1'-0"

FOUNDATION PLAN NOTES:

1. REFER TO SHEETS S0.01 AND S1.01 THROUGH S1.05 FOR GENERAL NOTES AND TYPICAL DETAILS. THE FOLLOWING DETAIL REFERENCES ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE ONLY. ALL GENERAL NOTES AND TYPICAL DETAILS NOTED ABOVE ARE APPLICABLE AND SHALL BE FOLLOWED.
2. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
3. SEE DETAILS OR CURB PLAN FOR CURB LOCATIONS. COORDINATE WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
4. PLUMBING AND ELECTRICAL CONDUIT AND GROUND STRAP SHALL NOT BE LAID WITHIN FOUNDATIONS. NO UTILITY PIPES OR CONDUITS SHALL BE LOCATED THRU COLUMN FOOTINGS OR FRAME FOOTINGS. NO VERTICAL OR HORIZONTAL PIPES OR CONDUITS SHALL BE LOCATED THROUGH STEEL FRAMES, STEEL COLUMNS, OR STEEL BASE PLATES. PROVIDE FURRING AND/OR THICKENED CONCRETE WHERE REQUIRED TO CLEAR UTILITY SYSTEMS. NOTIFY STRUCTURAL ENGINEER/ARCHITECT PRIOR TO ANY INSTALLATION NOT CONFORMING TO THESE DETAILS.

   PIPES THROUGH FOOTINGS SHALL BE PER 2/S1.01 AND 3/S1.01.

   PIPES PARALLEL TO FOOTINGS SHALL BE PER 4/S1.01.

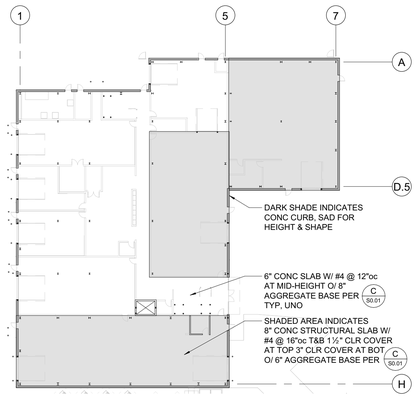
   PIPES AT SLAB ON GRADE SHALL BE PER 7/S1.01.
5. ELEVATION OF THE TOP OF FINISHED SLAB = 0'-0", UNLESS NOTED OTHERWISE.

PLAN LEGEND

SYMBOL	REFERENCE DETAIL	DESCRIPTION
	1/S1.02	INDICATES COLD FORMED STEEL WALL.
		INDICATES STEEL COLUMN.
		INDICATES FOUNDATION.
CF24		INDICATES CONTINUOUS FOOTING SIZE AND REINFORCING PER SCHEDULE.
F2.0		INDICATES PAD FOOTING SIZE AND REINFORCING PER SCHEDULE.
88		INDICATES GRIDLINE AT CENTERLINE OF COLUMN.
SFRS	E/S0.01	INDICATES LINE LOCATING STEEL ELEMENTS OF THE SEISMIC FORCE RESISTING SYSTEM.
1 / S3.1		INDICATES ELEVATION.
		INDICATES BRACED FRAME ABOVE.
	J/S0.01	INDICATES COLD FORMED SHEAR WALL.
	10/S4.01	INDICATES HD AT COLD FORMED SHEAR WALL.
		INDICATES CMU WALL.

SHEAR WALL SCHEDULE

SW	APA RATED SHTG	EDGE SCREW SPACING (PES)	ANCHORAGE		STUD/TRACK GAUGE
			AT FOUNDATION	AT FRAMING	
A	7/16" (24/16) EXP 1	#8 @ 6"oc	½"ø @ 14"oc	(2) #8 @ 12"oc	54MIL STUDS AND TRACKS



GROUND FLOOR SLAB & CURB PLAN

NOT TO SCALE

CONTINUOUS FOOTING SCHEDULE

MARK	'b'	'd'	REINF 'a'	NOTES
CF18	18"	24"	(2) #5 T&B	PROVIDE #3 TIES @ 24"oc
CF24	24"	24"	(3) #5 T&B	PROVIDE #3 TIES @ 24"oc
CF48	48"	24"	(8) #6 T&B*	(4) #4 VERT LEGS @ 16"oc
CF72	72"	36"	(8) #6 T&B	(5) #4 VERT LEGS @ 16"oc
CF96	96"	36"	(10) #9 T&B	(6) #4 VERT LEGS @ 14"oc
CF108	108"	36"	(18) #9 T&B	(7) #4 VERT LEGS @ 14"oc

* (10) #8 TOP BARS LINE H.

PAD FOOTING SCHEDULE

MARK	SIZE	REINFORCING
F3.0	3'-0" SQ x 24" DEEP	(4) #5 T&B EW
F4.0	4'-0" SQ x 24" DEEP	(5) #5 T&B EW
F5.0	5'-0" SQ x 24" DEEP	(6) #5 T&B EW
F6.0	6'-0" SQ x 24" DEEP	(7) #6 T&B EW
F7.0	7'-0" SQ x 24" DEEP	(7) #6 T&B EW
F8.0	8'-0" SQ x 24" DEEP	(8) #6 T&B EW
F9.0	9'-0" SQ x 24" DEEP	(9) #6 T&B EW

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FOUNDATION PLAN

S2.01

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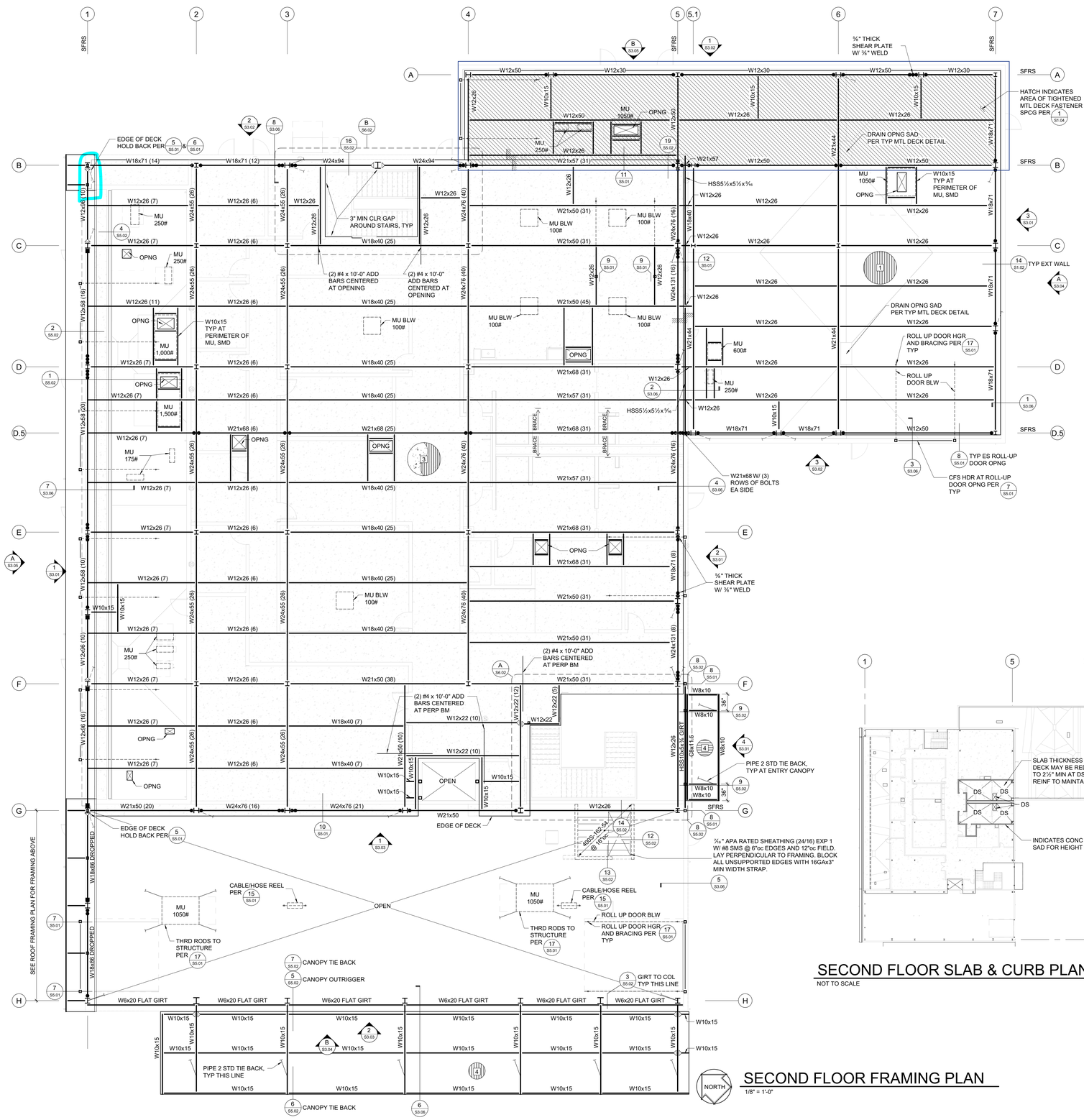
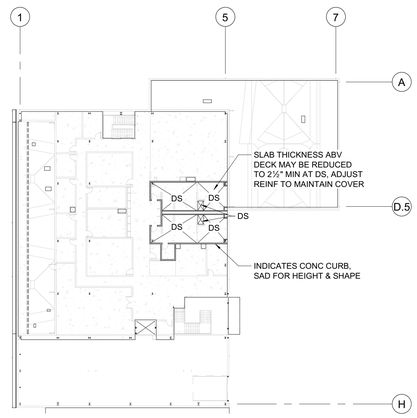


SECOND FLOOR FRAMING PLAN

1/8" = 1'-0"



SECOND FLOOR SLAB & CURB PLAN

NOT TO SCALE

FRAMING PLAN NOTES:

1. REFER TO SHEETS S0.01 AND S1.01 THROUGH S1.05 FOR GENERAL NOTES AND TYPICAL DETAILS. THE FOLLOWING DETAIL REFERENCES ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE ONLY. ALL GENERAL NOTES AND TYPICAL DETAIL SHEETS NOTED ABOVE ARE APPLICABLE AND SHALL BE FOLLOWED.
2. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
3. NO VERTICAL OR HORIZONTAL PIPES OR CONDUITS SHALL BE LOCATED THROUGH STEEL FRAMING, COLUMNS, OR BASE PLATES. CONDUIT OR PLUMBING NOT ALLOWED WITHIN CONCRETE FILL ON METAL DECK. PROVIDE FURRING WHERE REQUIRED TO CLEAR UTILITY SYSTEMS. NOTIFY ARCHITECT/ENGINEER PRIOR TO ANY INSTALLATION NOT CONFORMING TO THESE RESTRICTIONS.
4. FIRE PROTECTION SYSTEM SUPPORTS TO BE LOCATED TO MAINTAIN A MAXIMUM OF (2) 500 LB MAX POINT LOADS WITH 15'-0" MINIMUM SEPARATION TO ANY STEEL BEAM. NO SUPPORTS TO BE HUNG FROM METAL DECKING.
5. SEE ARCHITECTURAL DRAWINGS FOR EDGE OF SLAB, FACE OF WALL, ETCETERA.
6. SEE ARCHITECTURAL DRAWINGS FOR TOP OF SLAB OR TO TOP OF STEEL ELEVATION.
7. BEAM CENTERLINES TO ALIGN WITH COLUMN CENTERLINES, UNLESS NOTED OTHERWISE.
8. BEAMS TO BE EQUALLY SPACED IN EACH BAY, UNLESS NOTED OTHERWISE.

PLAN LEGEND

SYMBOL	REFERENCE DETAIL	DESCRIPTION
88		INDICATES GRIDLINE AT CENTERLINE OF COLUMN.
SFRS	E/S0.01	INDICATES LINE LOCATING STEEL ELEMENTS OF THE SEISMIC FORCE RESISTING SYSTEM.
		INDICATES STEEL COLUMN.
W16x26 (12)	17/S1.04	INDICATES BEAM SIZE, (NUMBER OF WELDED STUDS). PROVIDE STUDS @ 24"oc MAX SPACING AT ALL BEAMS SUPPORTING CONCRETE FILL OVER METAL DECK, UNLESS NOTED OTHERWISE. ADD STUDS AS REQUIRED. (NS) INDICATES NO STUDS. FABRICATE BEAM WITH NATURAL CAMBER UP.
	14/S1.05 1/S5.04 2/S5.04	INDICATES NON-FRAME MOMENT RESISTING CONNECTION.
	20/S5.01	AT BRACED FRAME.
	2/S1.05	INDICATES SEISMIC FORCE RESISTING SYSTEM COLLECTOR CONNECTION. PROVIDE ADDITIONAL ROWS OF BOLTS WHERE NOTED AT CONNECTION PER TYPICAL DETAILS.
	19/S5.01	INDICATES WELDED SEISMIC FORCE RESISTING SYSTEM COLLECTOR CONNECTION.
		INDICATES BRACED FRAME ABOVE.
		INDICATES BRACED FRAME BELOW.
BRACE	9/S1.05	INDICATES DIAGONAL BRACE CONNECTED TO BOTTOM FLANGE OF BEAM. HEAD OF ARROW INDICATES THE UPPER CONNECTION. SPACE BRACES EQUALLY UNLESS NOTED OTHERWISE.
1 / 1	1/S1.04	INDICATES METAL DECK (WITH CONCRETE FILL AS OCCURS) AND DIRECTION OF DECK SPAN.
	1/S1.04	INDICATES AREA OF TIGHTENED METAL DECK FASTENER SPACING.
DS		INDICATES DEPRESSED SLAB, SEE ARCHITECTURAL AND PLUMBING DRAWINGS FOR COMPLETE LOCATIONS, DEPTH AND SLOPE INFORMATION.
	1/S1.02	INDICATES COLD FORMED STEEL WALL ABOVE.
	1/S1.02	INDICATES COLD FORMED STEEL WALL BELOW.
MU 1,000#	4/S1.04	INDICATES APPROXIMATE LOCATION, SIZE AND MAXIMUM WEIGHT OF MECHANICAL UNIT. SEE MECHANICAL DRAWINGS FOR ANCHORAGE AND ADDITIONAL INFORMATION.
1 / S3.1		INDICATES ELEVATION.
		INDICATES STEP IN ELEVATION, SEE ARCHITECTURAL DRAWINGS.

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	2022.02.28	SCHEMATIC DESIGN

#	date	issue description

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

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SECOND FLOOR AND LOW ROOF FRAMING PLAN

S2.02

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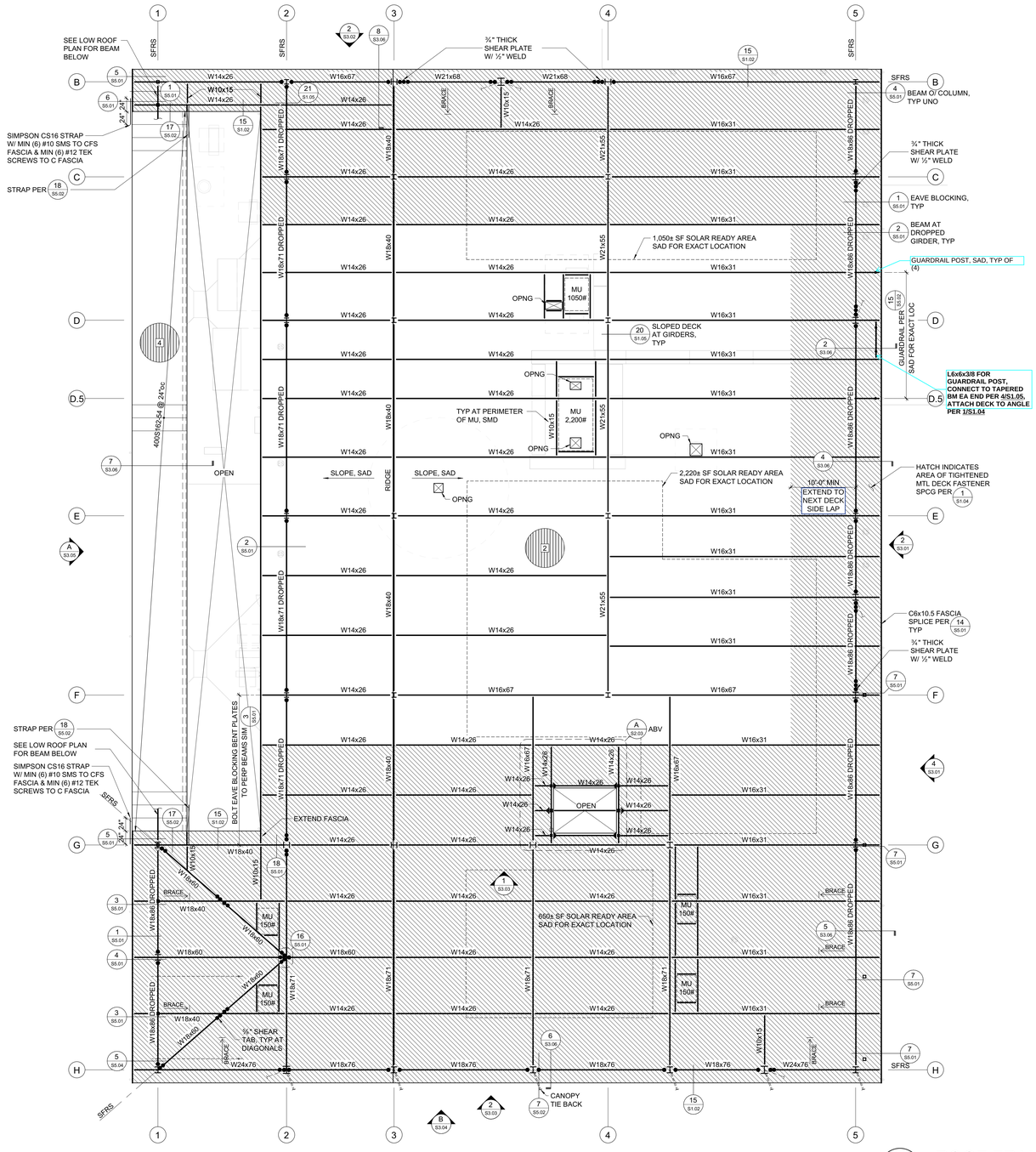
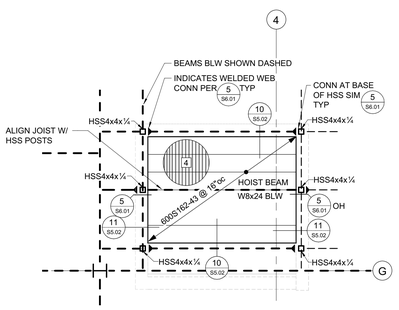


ROOF FRAMING PLAN

1/8" = 1'-0"



A ELEVATOR ROOF FRAMING PLAN

1/4" = 1'-0"

FRAMING PLAN NOTES:

1. REFER TO SHEETS S0.01 AND S1.01 THROUGH S1.05 FOR GENERAL NOTES AND TYPICAL DETAILS. THE FOLLOWING DETAIL REFERENCES ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE ONLY. ALL GENERAL NOTES AND TYPICAL DETAIL SHEETS NOTED ABOVE ARE APPLICABLE AND SHALL BE FOLLOWED.
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4. FIRE PROTECTION SYSTEM SUPPORTS TO BE LOCATED TO MAINTAIN A MAXIMUM OF (2) 500 LB MAX POINT LOADS WITH 15'-0" MINIMUM SEPARATION TO ANY STEEL BEAM. NO SUPPORTS TO BE HUNG FROM METAL DECKING.
5. SEE ARCHITECTURAL DRAWINGS FOR EDGE OF SLAB, FACE OF WALL, ETCETERA.
6. SEE ARCHITECTURAL DRAWINGS FOR TOP OF SLAB OR TO TOP OF STEEL ELEVATION.
7. BEAM CENTERLINES TO ALIGN WITH COLUMN CENTERLINES, UNLESS NOTED OTHERWISE.
8. BEAMS TO BE EQUALLY SPACED IN EACH BAY, UNLESS NOTED OTHERWISE.

PLAN LEGEND

SYMBOL	REFERENCE DETAIL	DESCRIPTION
88		INDICATES GRIDLINE AT CENTERLINE OF COLUMN.
SFRS	E/S0.01	INDICATES LINE LOCATING STEEL ELEMENTS OF THE SEISMIC FORCE RESISTING SYSTEM.
		INDICATES STEEL COLUMN.
W16x26 (12)	17/S1.04	INDICATES BEAM SIZE. (NUMBER OF WELDED STUDS). PROVIDE STUDS @ 24"oc MAX SPACING AT ALL BEAMS SUPPORTING CONCRETE FILL OVER METAL DECK, UNLESS NOTED OTHERWISE. ADD STUDS AS REQUIRED. (NS) INDICATES NO STUDS. FABRICATE BEAM WITH NATURAL CAMBER UP.
	14/S1.05 1/S5.04 2/S5.04	INDICATES NON-FRAME MOMENT RESISTING CONNECTION.
	20/S5.01	AT BRACED FRAME.
	2/S1.05	INDICATES SEISMIC FORCE RESISTING SYSTEM COLLECTOR CONNECTION, PROVIDE ADDITIONAL ROWS OF BOLTS WHERE NOTED AT CONNECTION PER TYPICAL DETAILS.
	19/S5.01	INDICATES WELDED SEISMIC FORCE RESISTING SYSTEM COLLECTOR CONNECTION.
		INDICATES BRACED FRAME ABOVE.
		INDICATES BRACED FRAME BELOW.
BRACE	9/S1.05	INDICATES DIAGONAL BRACE CONNECTED TO BOTTOM FLANGE OF BEAM. HEAD OF ARROW INDICATES THE UPPER CONNECTION. SPACE BRACES EQUALLY UNLESS NOTED OTHERWISE.
1 / 1	1/S1.04	INDICATES METAL DECK (WITH CONCRETE FILL AS OCCURS) AND DIRECTION OF DECK SPAN.
	1/S1.04	INDICATES AREA OF TIGHTENED METAL DECK FASTENER SPACING.
DS		INDICATES DEPRESSED SLAB, SEE ARCHITECTURAL AND PLUMBING DRAWINGS FOR COMPLETE LOCATIONS, DEPTH AND SLOPE INFORMATION.
	1/S1.02	INDICATES COLD FORMED STEEL WALL ABOVE.
	1/S1.02	INDICATES COLD FORMED STEEL WALL BELOW.
MU 1,000#	4/S1.04	INDICATES APPROXIMATE LOCATION, SIZE AND MAXIMUM WEIGHT OF MECHANICAL UNIT. SEE MECHANICAL DRAWINGS FOR ANCHORAGE AND ADDITIONAL INFORMATION.
1 / S3.1		INDICATES ELEVATION.
		INDICATES STEP IN ELEVATION, SEE ARCHITECTURAL DRAWINGS.

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CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

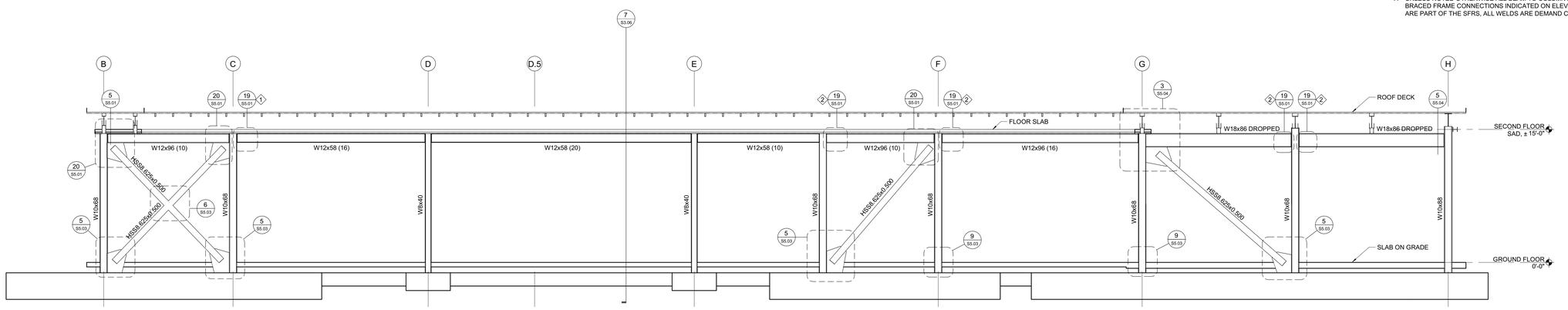
project number: 20-296
date: JUNE 6, 2024

ROOF FRAMING PLAN

S2.03

FRAME ELEVATION NOTES:

1. ELEVATIONS ARE SCHEMATIC. SEE PLANS FOR ADDITIONAL INFORMATION.
2. SEE PLANS FOR ALL COLUMN AND BEAM SIZES.
3. SEE SHEET S5.03 FOR BRACED FRAME DETAILS.
4. SEE SHEET S1.02 & S1.03 FOR METAL STUD FRAMING. SAD AND SMD FOR LOCATION AND SIZE OF WALL OPENINGS.
5. SAD FOR FRAMING HEIGHTS, BEAM SLOPES AND ALL DIMENSIONS.
6. NO COLUMN SPLICES PERMITTED EXCEPT WHERE NOTED.
7. UNLESS NOTED OTHERWISE ALL BEAM TO COLUMN AND BRACED FRAME CONNECTIONS INDICATED ON ELEVATIONS ARE PART OF THE SFRS, ALL WELDS ARE DEMAND CRITICAL.



1 BRACED FRAME ELEVATION - LINE 1
3/16" = 1'-0"

2 BRACED FRAME ELEVATION - LINE 5
3/16" = 1'-0"

NOTE:
CONNECTIONS INDICATED IN THIS ELEVATION ARE NOT PART OF THE SFRS.

4 ENTRY CANOPY ELEVATION - LINE 5
3/16" = 1'-0"

3 BRACED FRAME ELEVATION - LINE 7
3/16" = 1'-0"

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project number: 20-296
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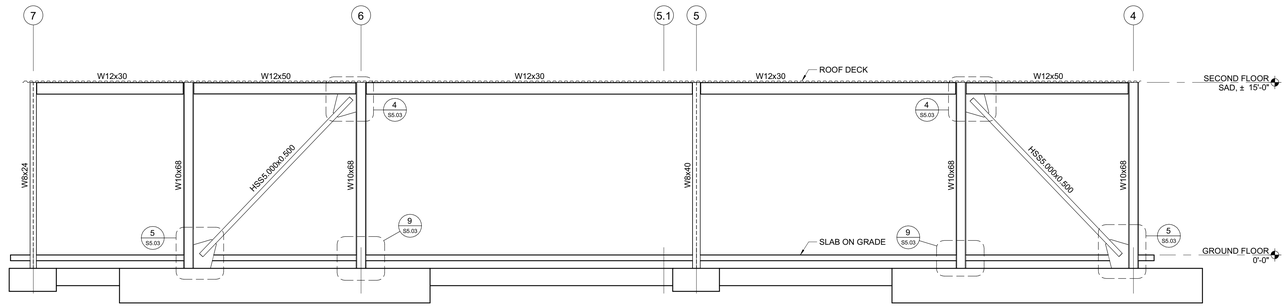
BRACED FRAME ELEVATIONS

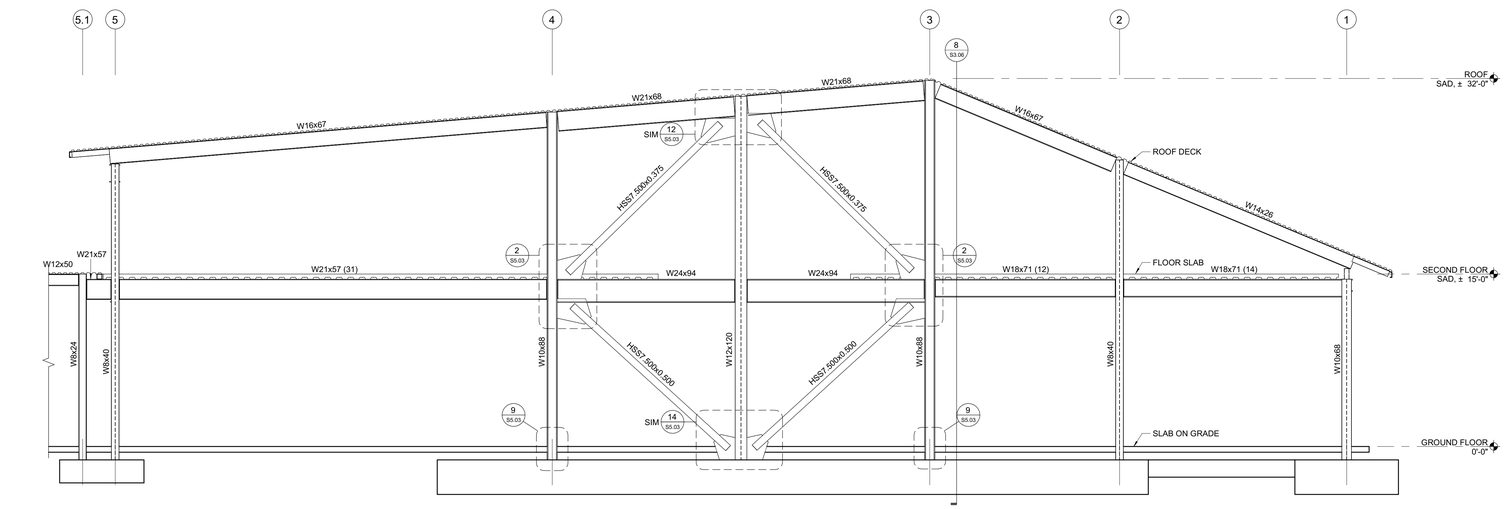
S3.01

FRAME ELEVATION NOTES:

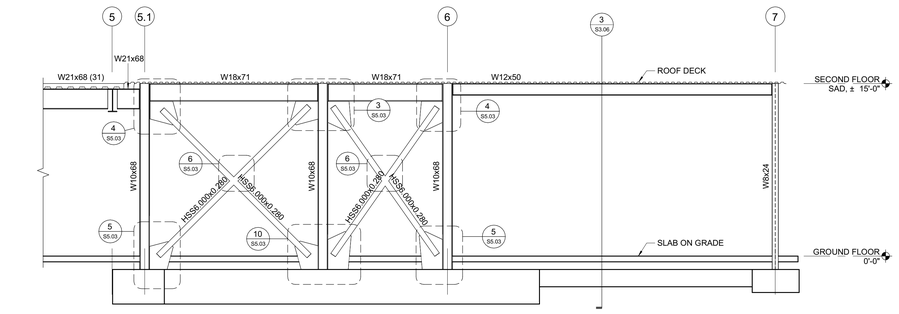
1. ELEVATIONS ARE SCHEMATIC. SEE PLANS FOR ADDITIONAL INFORMATION.
2. SEE PLANS FOR ALL COLUMN AND BEAM SIZES.
3. SEE SHEET **S5.03** FOR BRACED FRAME DETAILS.
4. SEE SHEET **S1.02** & **S1.03** FOR METAL STUD FRAMING. SAD AND SMD FOR LOCATION AND SIZE OF WALL OPENINGS.
5. SAD FOR FRAMING HEIGHTS, BEAM SLOPES AND ALL DIMENSIONS.
6. NO COLUMN SPLICES PERMITTED EXCEPT WHERE NOTED.
7. UNLESS NOTED OTHERWISE ALL BEAM TO COLUMN AND BRACED FRAME CONNECTIONS INDICATED ON ELEVATIONS ARE PART OF THE SFRS, ALL WELDS ARE DEMAND CRITICAL.



1 BRACED FRAME ELEVATION - LINE A
3/16" = 1'-0"



2 BRACED FRAME ELEVATION - LINE B
3/16" = 1'-0"



3 BRACED FRAME ELEVATION - LINE D.5
3/16" = 1'-0"

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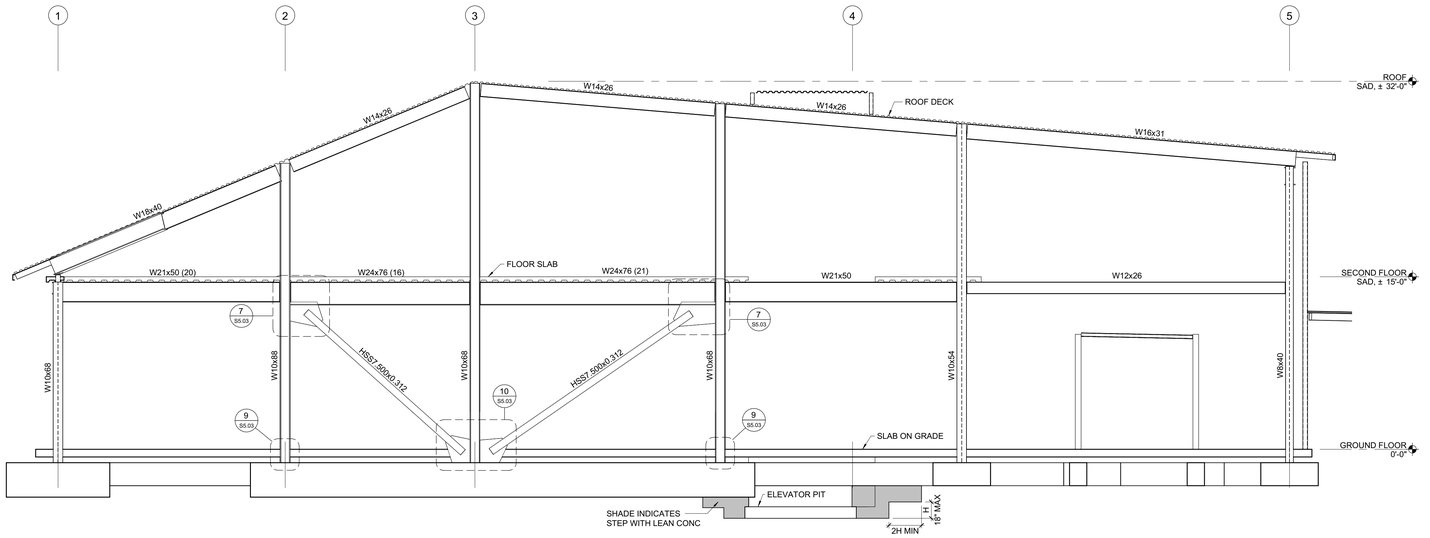
BRACED FRAME ELEVATIONS

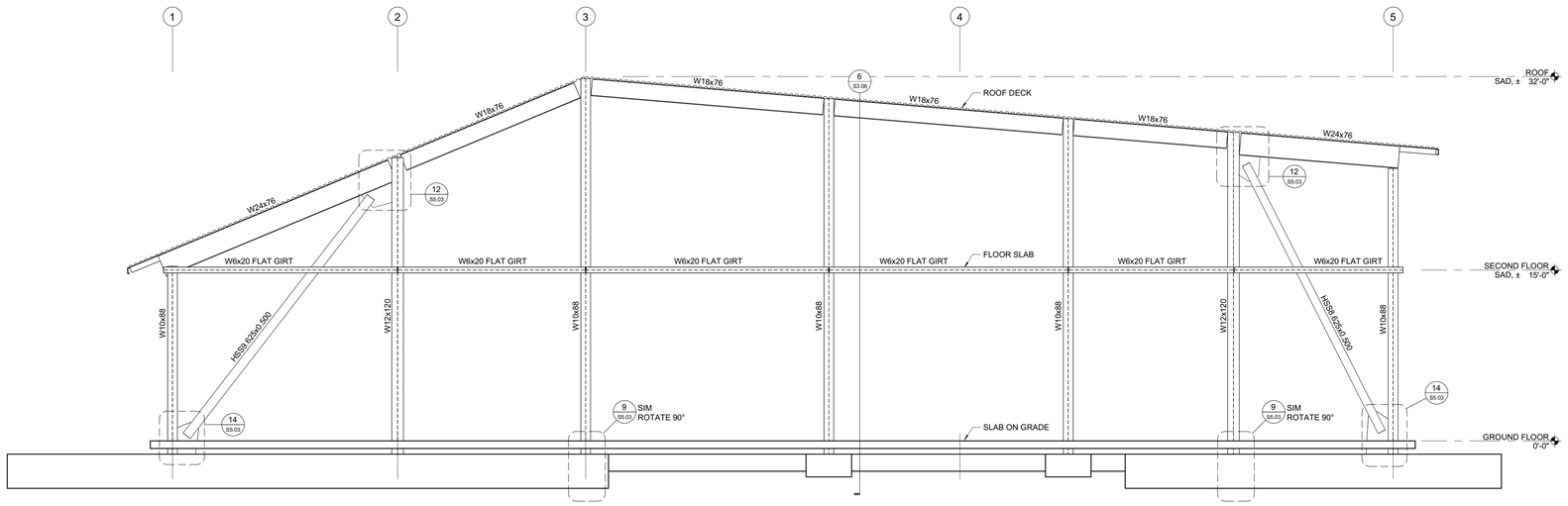
S3.02

FRAME ELEVATION NOTES:

1. ELEVATIONS ARE SCHEMATIC. SEE PLANS FOR ADDITIONAL INFORMATION.
2. SEE PLANS FOR ALL COLUMN AND BEAM SIZES.
3. SEE SHEET **S5.03** FOR BRACED FRAME DETAILS.
4. SEE SHEET **S1.02** & **S1.03** FOR METAL STUD FRAMING. SAD AND SMD FOR LOCATION AND SIZE OF WALL OPENINGS.
5. SAD FOR FRAMING HEIGHTS, BEAM SLOPES AND ALL DIMENSIONS.
6. NO COLUMN SPLICES PERMITTED EXCEPT WHERE NOTED.
7. UNLESS NOTED OTHERWISE ALL BEAM TO COLUMN AND BRACED FRAME CONNECTIONS INDICATED ON ELEVATIONS ARE PART OF THE SFRS, ALL WELDS ARE DEMAND CRITICAL.



1 BRACED FRAME ELEVATION - LINE G
3/16" = 1'-0"



2 BRACED FRAME ELEVATION - LINE H
3/16" = 1'-0"

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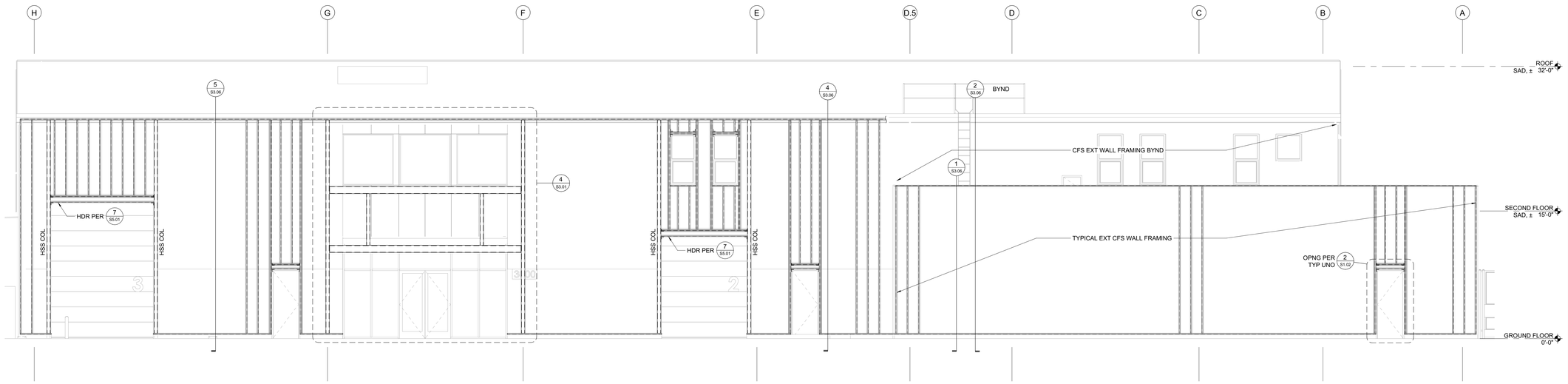
BRACED FRAME ELEVATIONS

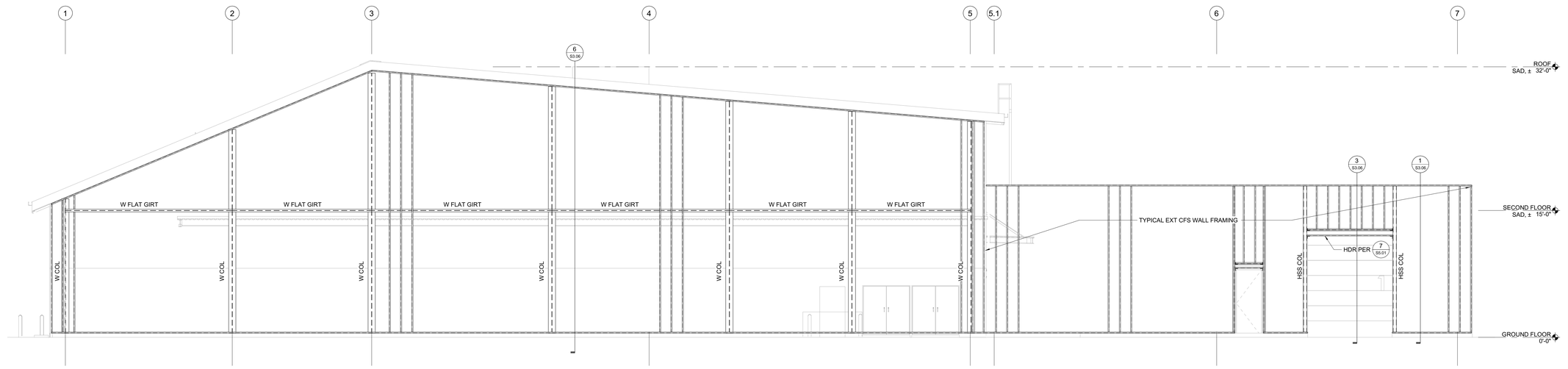
S3.03

WALL FRAMING ELEVATION NOTES:

1. ELEVATIONS ARE SCHEMATIC. SEE PLANS FOR ADDITIONAL INFORMATION.
2. SEE PLANS FOR ALL COLUMN AND BEAM SIZES.
3. SEE SHEET S1.02 & S1.03 FOR METAL STUD FRAMING. SAD AND SMD FOR WALL OPENINGS.
4. SAD FOR FRAMING HEIGHTS, BEAM SLOPES AND ALL DIMENSIONS.



A EAST WALL ELEVATION
3/16" = 1'-0"



B SOUTH WALL ELEVATION
3/16" = 1'-0"

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ANGELA M. SOMMER
STRUCTURAL
No. 6013
STATE OF CALIFORNIA

#	date	issue description
2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

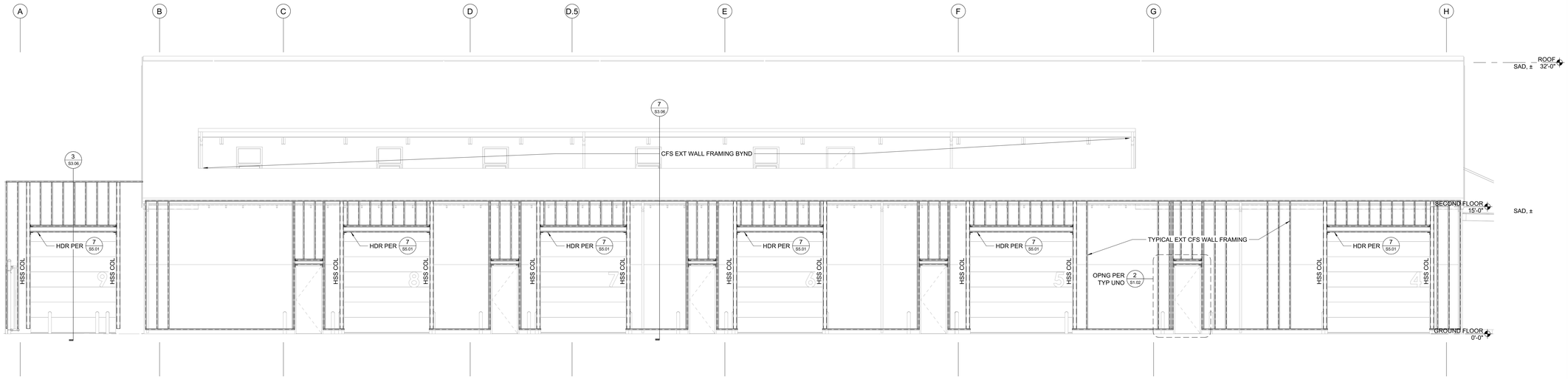
project number: 20-296
date: JUNE 6, 2024

WALL FRAME ELEVATIONS

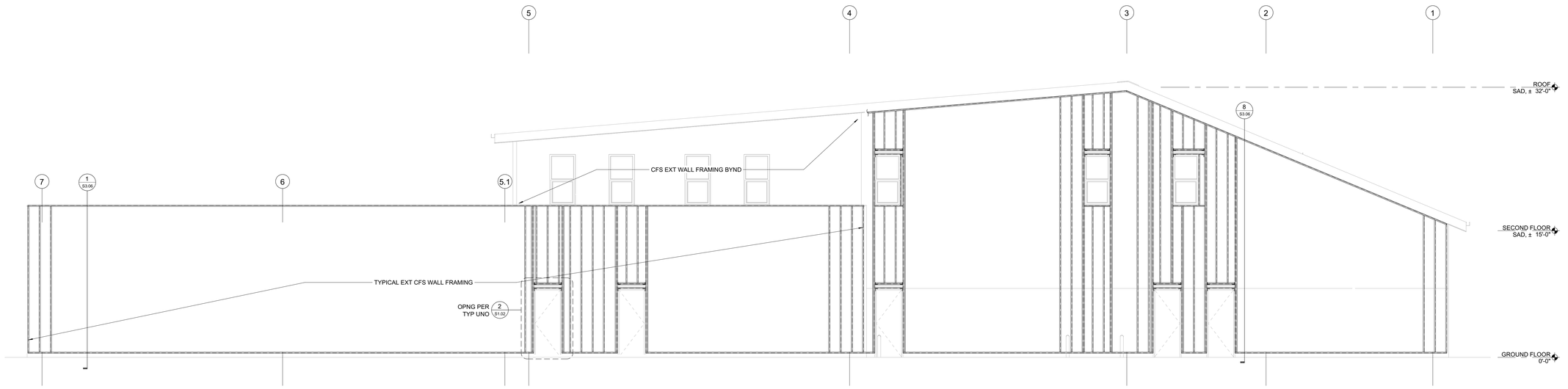
S3.04

WALL FRAMING ELEVATION NOTES:

1. ELEVATIONS ARE SCHEMATIC. SEE PLANS FOR ADDITIONAL INFORMATION.
2. SEE PLANS FOR ALL COLUMN AND BEAM SIZES.
3. SEE SHEET S1.02 & S1.03 FOR METAL STUD FRAMING. SAD AND SMD FOR WALL OPENINGS.
4. SAD FOR FRAMING HEIGHTS, BEAM SLOPES AND ALL DIMENSIONS.



A WEST ELEVATION
3/16" = 1'-0"



B NORTH ELEVATION
3/16" = 1'-0"

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WALL FRAME ELEVATIONS

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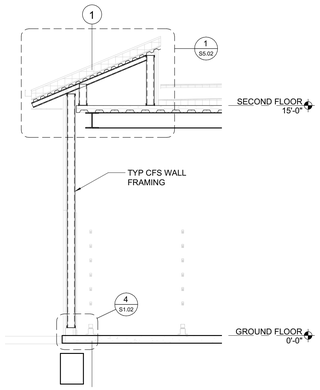
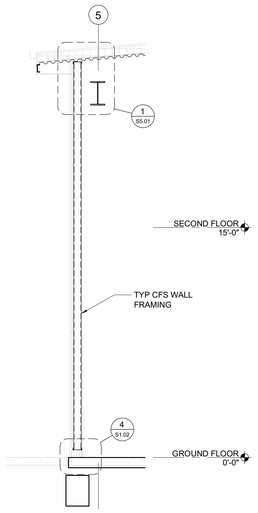
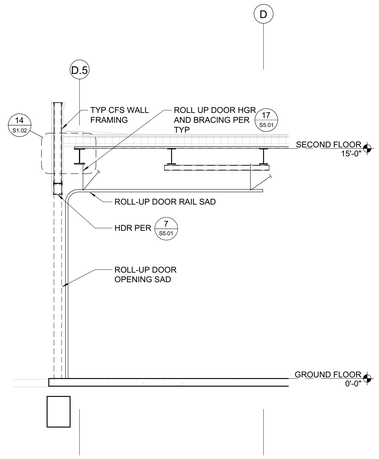


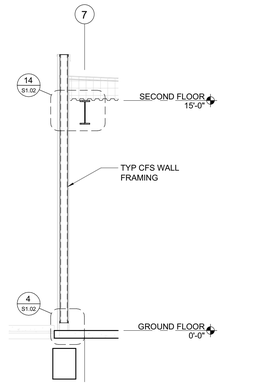
7 WALL SECTION
1/4" = 1'-0"



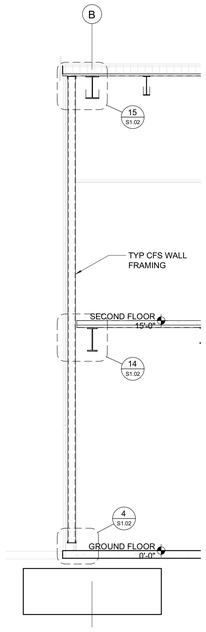
5 WALL SECTION
1/4" = 1'-0"



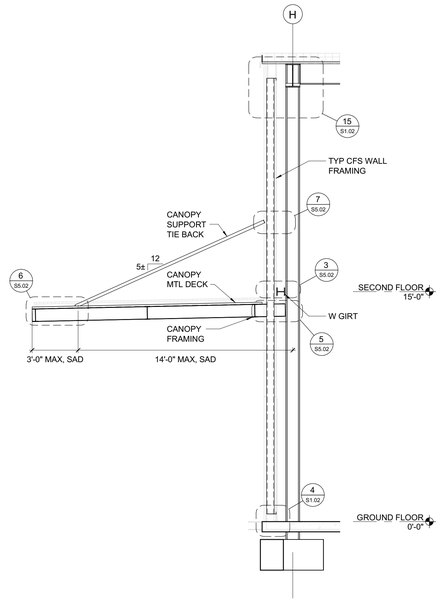
3 WALL SECTION
1/4" = 1'-0"



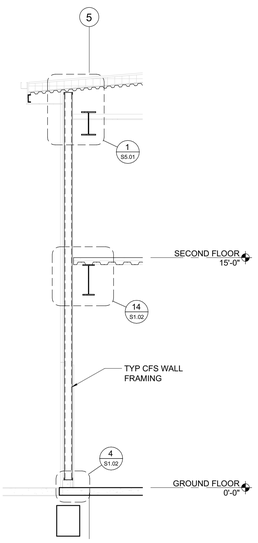
1 WALL SECTION
1/4" = 1'-0"



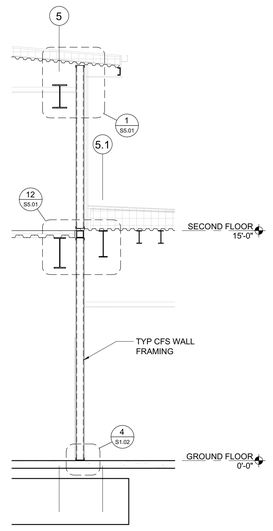
8 WALL SECTION
1/4" = 1'-0"



6 WALL SECTION
1/4" = 1'-0"



4 WALL SECTION
1/4" = 1'-0"



2 WALL SECTION
1/4" = 1'-0"

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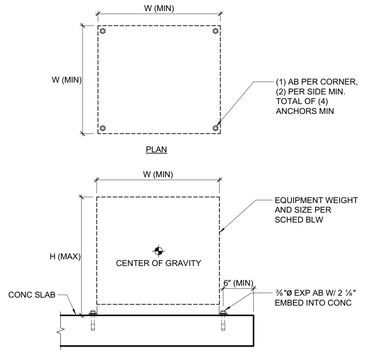
WALL FRAMING SECTIONS

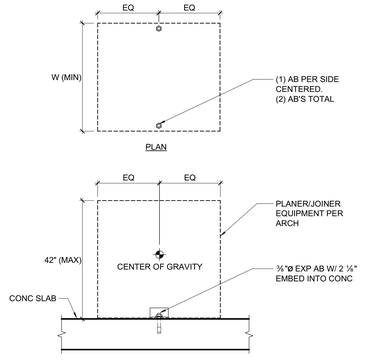
S3.06



EQUIPMENT	WEIGHT (MAX)	H (MAX)	W (MIN)
TIRE CHANGING	1,550#	7'-6"	7'-6"
PAINT BOOTH	700#	8'-0"	9'-0"
OTHER 1	400#	6'-3"	14"
OTHER 2	800#	7'-6"	20"

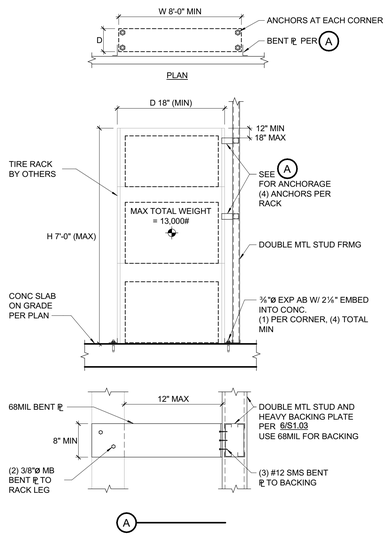
NOTES:
1. "OTHER 1" TO INCLUDE THE FOLLOWING ITEMS: PANEL SAW, BAND SAW, HYDRAULIC PRESS BENCH, DISC BRAKE LATHE.
2. "OTHER 2" TO INCLUDE THE FOLLOWING ITEMS: DRILL PRESS, 10" TABLE SAW, WHEEL BALANCER, AIR COMPRESSOR.
3. CENTER OF GRAVITY TO BE MAX ½ OF TOTAL HEIGHT.
4. CONTRACTOR TO VERIFY EQUIPMENT WEIGHT AND DIMENSIONS ARE WITHIN LIMITS IN TABLE ABOVE.

15 PERMANENT EQUIPMENT ANCHORAGE
3/4" = 1'-0"

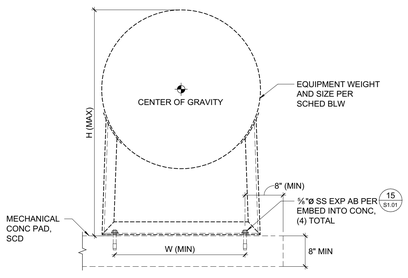


NOTES:
1. MAX WEIGHT IS 760#.
2. CENTER OF GRAVITY TO BE MAX ½ OF TOTAL HEIGHT

16 PLANER/JOINER ANCHORAGE
3/4" = 1'-0"



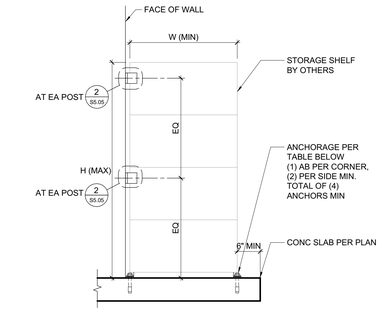
17 TIRE RACK ANCHORAGE
3/4" = 1'-0"



EQUIPMENT	WEIGHT (MAX)	H (MAX)	W (MIN)
PROPANE TANK	3,904#	5'-0"	34"

NOTES:
1. CENTER OF GRAVITY TO BE 38" MAX.
2. CONTRACTOR TO VERIFY EQUIPMENT WEIGHT AND DIMENSIONS ARE WITHIN LIMITS IN TABLE ABOVE.

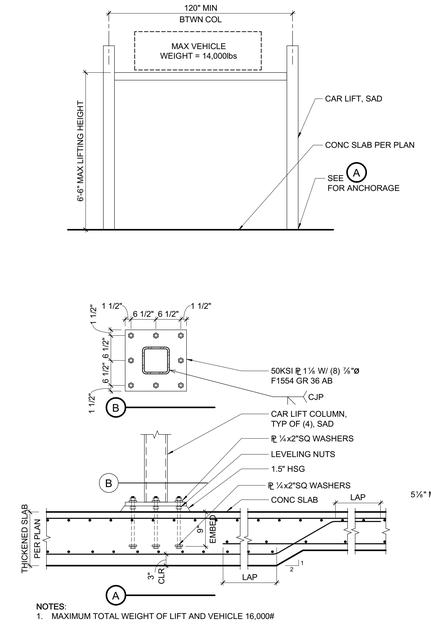
12 PROPANE TANK ANCHORAGE
3/4" = 1'-0"



STORAGE SHELF	WEIGHT (MAX)	H (MAX)	W (MIN)	ANCHOR BOLT
CHEMICAL & DRY	13,000#	10'-0"	48"	¾"ø EXP AB W/ 3¾" NOMINAL EMBED

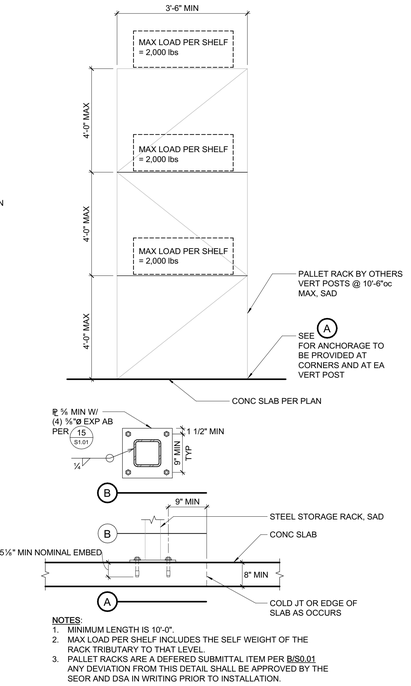
NOTES:
1. MINIMUM SHELF LENGTH IS 48"

13 CHEMICAL & DRY STORAGE SHELF WALL AND FLOOR-MOUNTED ANCHORAGE
3/4" = 1'-0"



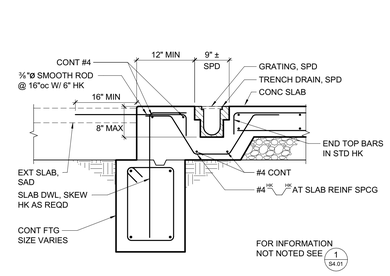
NOTES:
1. MAXIMUM TOTAL WEIGHT OF LIFT AND VEHICLE 16,000#

14 CAR LIFT ANCHORAGE
3/4" = 1'-0"

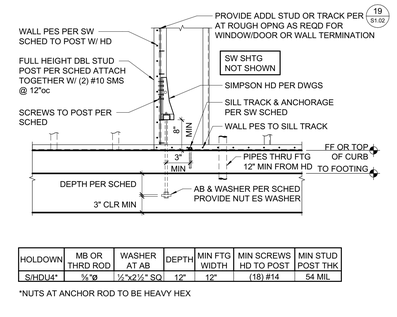


NOTES:
1. MINIMUM LENGTH IS 10'-0".
2. MAX LOAD PER SHELF INCLUDES THE SELF WEIGHT OF THE RACK TRIBUTARY TO THAT LEVEL.
3. PALLET RACKS ARE A DEFERED SUBMITTAL ITEM PER B/SO.01 ANY DEVIATION FROM THIS DETAIL SHALL BE APPROVED BY THE SEOR AND DSA IN WRITING PRIOR TO INSTALLATION.

11 PALLET RACK ANCHORAGE
3/4" = 1'-0"



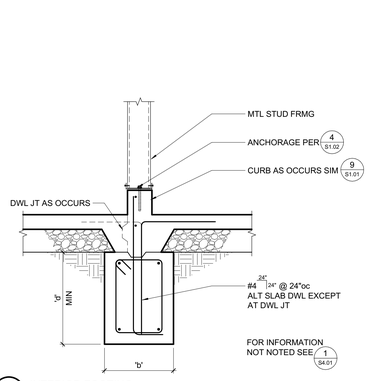
9 TRENCH DRAIN AT EDGE OF SLAB
3/4" = 1'-0"



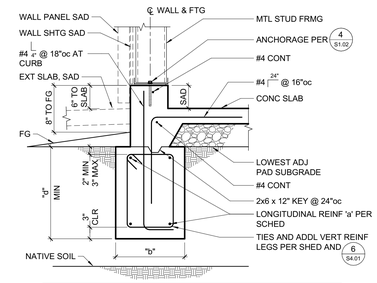
HOLDOWN	MB OR THRD ROD	WASHER AT AB	DEPTH	MIN FTG WIDTH	MIN SCREWS HD TO POST	MIN STUD POST THK
S/HDU4*	⅝"ø	½"x2½" SQ	12"	12"	(18) #14	54 MIL

*NUTS AT ANCHOR ROD TO BE HEAVY HEX

10 CFS HOLD-DOWN
3/4" = 1'-0"

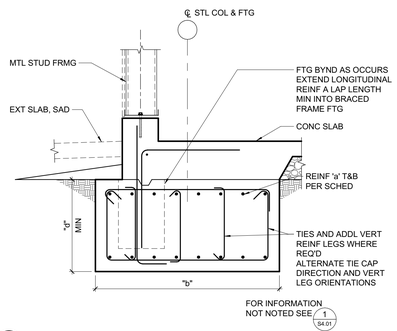


5 INTERIOR FOOTING
3/4" = 1'-0"

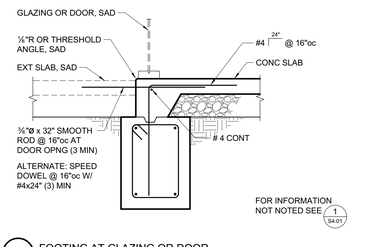


CONTINUOUS FOOTING SCHEDULE				
MARK	'b'	'd'	REINF 'a'	NOTES
CF18	18"	24"	(2) #5 T&B	PROVIDE #3 TIES @ 24"oc
CF24	24"	24"	(3) #5 T&B	PROVIDE #3 TIES @ 24"oc
CF48	48"	24"	(8) #6 T&B	(4) #4 VERT LEGS @ 16"oc
CF72	72"	36"	(8) #6 T&B	(5) #4 VERT LEGS @ 16"oc
CF96	96"	36"	(10) #9 T&B	(6) #4 VERT LEGS @ 14"oc
CF108	108"	36"	(18) #9 T&B	(7) #4 VERT LEGS @ 14"oc

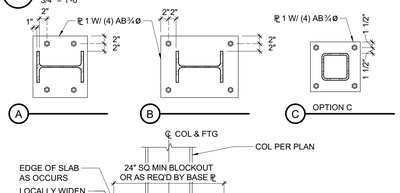
1 PERIMETER FOOTING
3/4" = 1'-0"

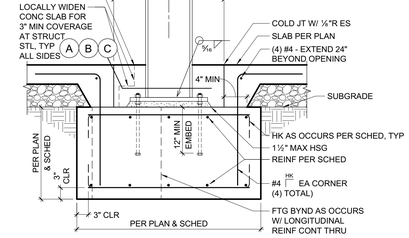


6 EXTERIOR BRACED FRAME FOOTING
3/4" = 1'-0"

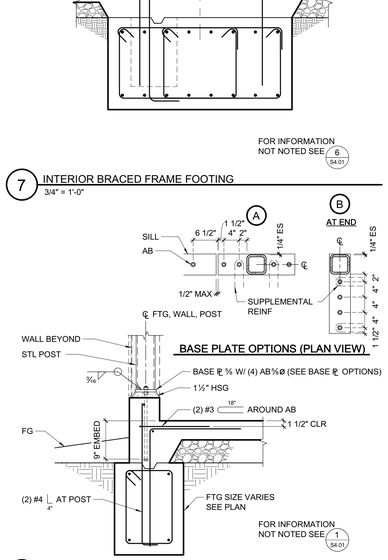


2 FOOTING AT GLAZING OR DOOR
3/4" = 1'-0"

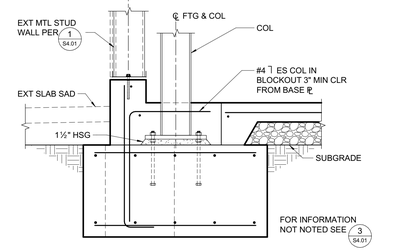




7 INTERIOR BRACED FRAME FOOTING
3/4" = 1'-0"



8 HSS COLUMN AT EXTERIOR FOOTING WITH CURB
3/4" = 1'-0"



PAD FOOTING SCHEDULE		
MARK	SIZE	REINFORCING
F3.0*	3'-0" SQ x 24" DEEP	(4) #5 T&B EW
F4.0*	4'-0" SQ x 24" DEEP	(5) #5 T&B EW
F5.0*	5'-0" SQ x 24" DEEP	(6) #5 T&B EW
F6.0	6'-0" SQ x 24" DEEP	(7) #6 T&B EW
F7.0	7'-0" SQ x 24" DEEP	(7) #6 T&B EW
F8.0	8'-0" SQ x 24" DEEP	(8) #6 T&B EW
F9.0	9'-0" SQ x 24" DEEP	(9) #6 T&B EW

*PROVIDE STD HOOKS AT EA END OF EA HORIZONTAL REINF IN PAD FTG.

3 COLUMN AT INTERIOR PAD FOOTING
3/4" = 1'-0"

4 COLUMN AT EXTERIOR PAD FOOTING
3/4" = 1'-0"

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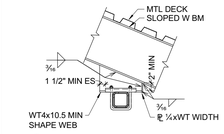
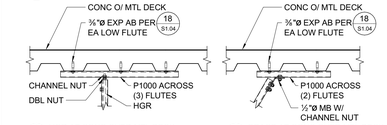
FOUNDATION DETAILS

S4.01

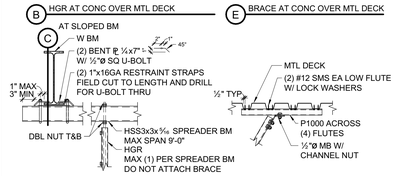


C SLOPED BEAM



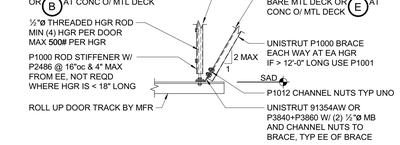
B HGR AT CONC OVER MTL DECK

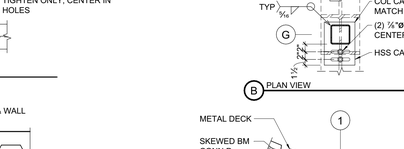
E BRACE AT CONC OVER MTL DECK



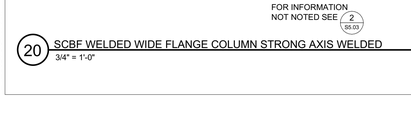
A HGR AT SPREADER BEAM

D BRACE AT MTL DECK

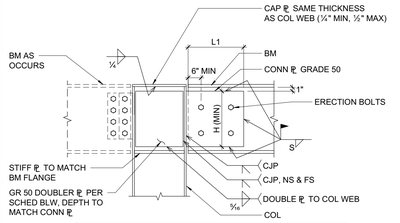




17 ROLL UP DOOR BRACING
3/4" = 1'-0"

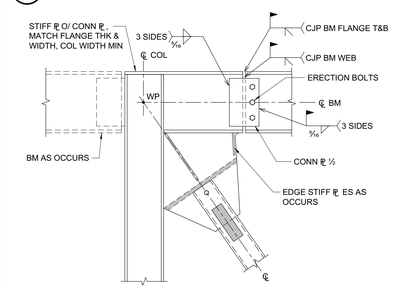


18 BEAM STEP AT COLUMN - GRID G AT 2
3/4" = 1'-0"

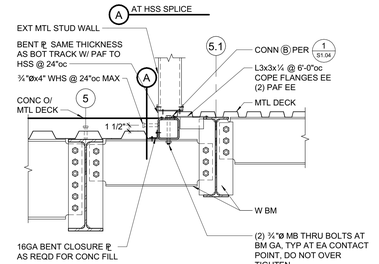


MARK	CONN ℄ 'T'	L1	WELD S	H (MIN)	DOUB ℄ 'T'
1	2 ⅛"	22"	½"	5 ½"	1 ⅛"
2	1 ⅛"	20"	½"	5 ½"	1 ⅛"
3	1 ⅛"	20"	⅜"	5 ½"	1"

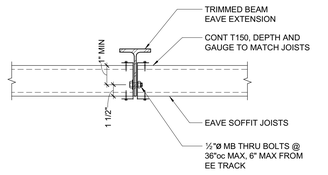
19 WELDED BEAM TO COLUMN FLANGE CONNECTION
3/4" = 1'-0"



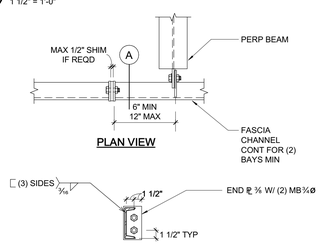
20 SCBF WELDED WIDE FLANGE COLUMN STRONG AXIS WELDED
3/4" = 1'-0"



12 FRAMING STEP
3/4" = 1'-0"

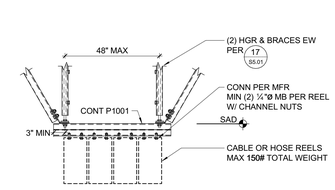


13 EAVE SOFFIT FRAMING
1 1/2" = 1'-0"

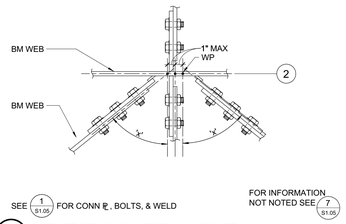


A SECTION VIEW

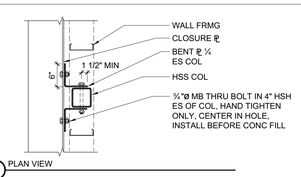
14 FASCIA CHANNEL SPLICE
1" = 1'-0"

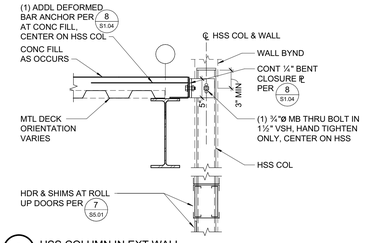


15 CABLE/HOSE REEL BRACING
3/4" = 1'-0"

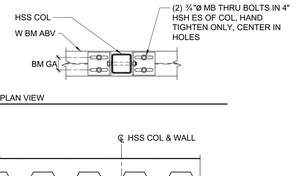


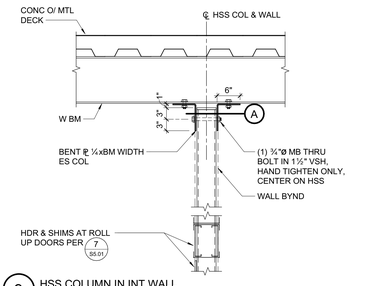
16 SKEWED BEAM CONNECTION - AT WEB
1 1/2" = 1'-0"



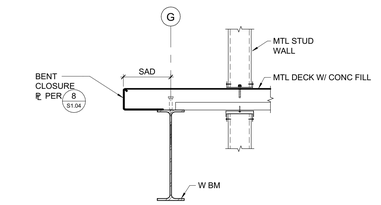


8 HSS COLUMN IN EXT WALL
3/4" = 1'-0"

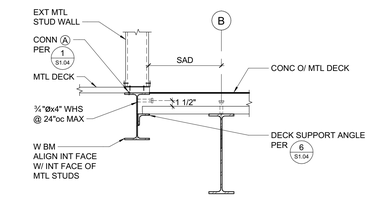




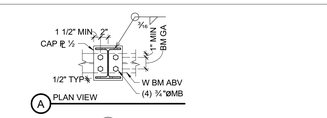
9 HSS COLUMN IN INT WALL
3/4" = 1'-0"

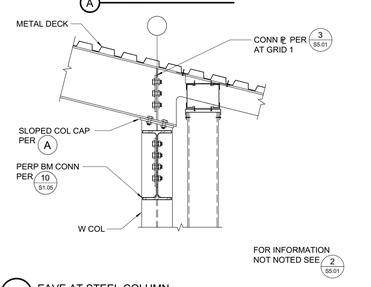


10 FRAMING STEP
3/4" = 1'-0"

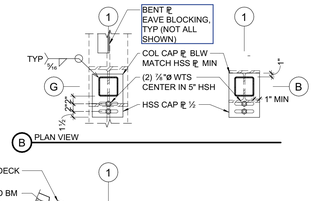


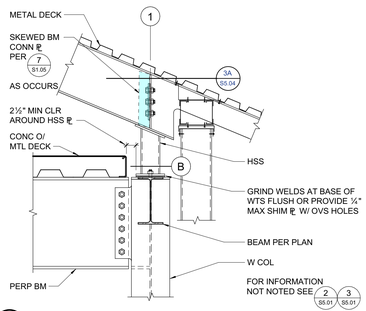
11 FRAMING STEP
3/4" = 1'-0"



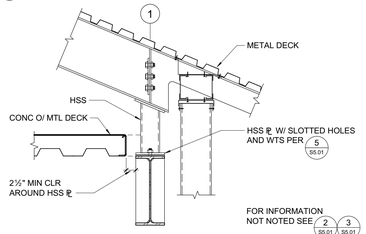


4 EAVE AT STEEL COLUMN
3/4" = 1'-0"

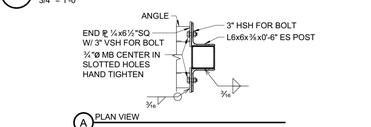


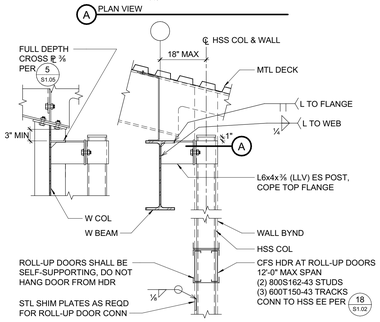


5 EAVE AT STEEL BEAM
3/4" = 1'-0"

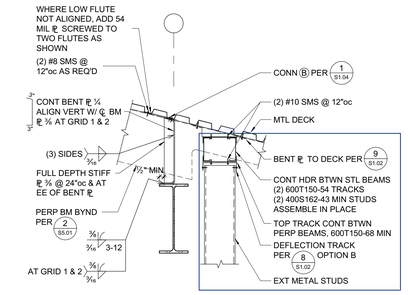


6 EAVE AT STEEL BEAM
3/4" = 1'-0"

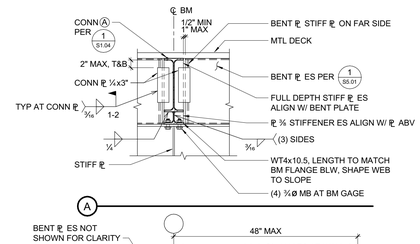


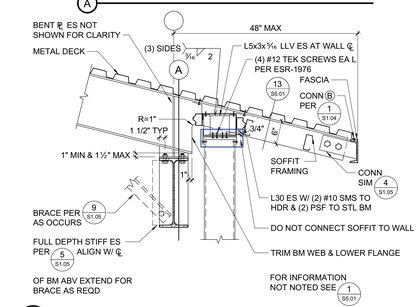


7 HSS COLUMN IN EXT WALL
3/4" = 1'-0"

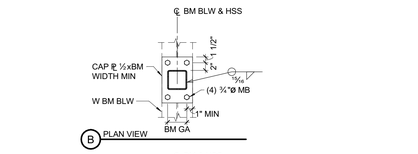


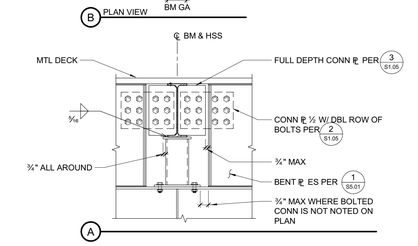
1 EAVE BLOCKING
3/4" = 1'-0"

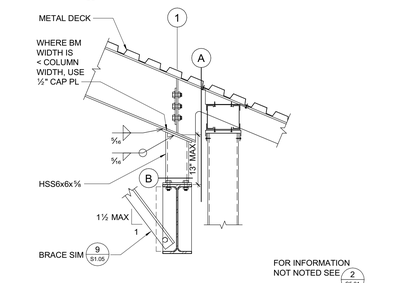




2 EAVE AT STEEL BEAM
3/4" = 1'-0"







3 EAVE AT STEEL BEAM
3/4" = 1'-0"

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file: Autodesk Docs://chabot m&o/20635_Chabot 2-Story_S22.rvt
12/12/2024 9:54:17 AM

HGA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-121159 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 2/19/2025

CHABOT COLLEGE

CLIENT
CHABOT COLLEGE
25555 HESPERIAN BLVD
HAYWARD, CA 94612

ARCHITECT
HGA
405 14th Street, Suite 500
Oakland, CA 94612
510.516.0167
www.hga.com

STRUCTURAL ENGINEER
ZFA STRUCTURAL ENGINEERS
601 montgomery street | suite 1450 zfa.com
san francisco ca 94111 415.243.4091
zfa job no. 20635 copyright © 2023

REGISTERED PROFESSIONAL ENGINEER
ANGELA M. SOMMER
STRUCTURAL
No. 6013
STATE OF CALIFORNIA

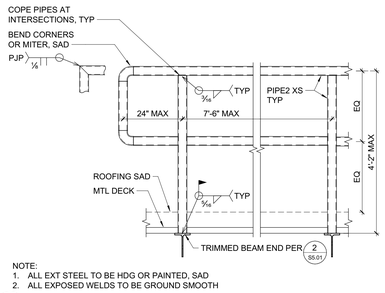
#	date	issue description
2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: JUNE 6, 2024

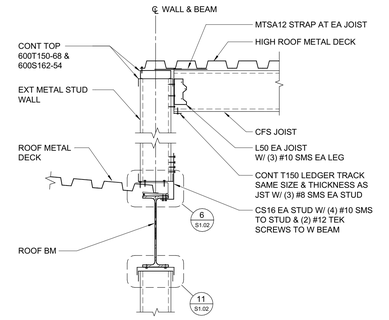
STEEL FRAMING DETAILS

S5.01

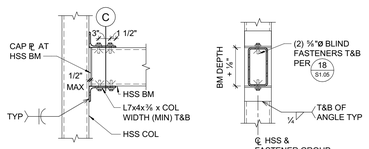


NOTE:
1. ALL EXT STEEL TO BE HDG OR PAINTED, SAD
2. ALL EXPOSED WELDS TO BE GROUND SMOOTH

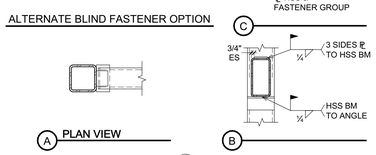
15 ROOF GUARDRAIL
3/4" = 1'-0"



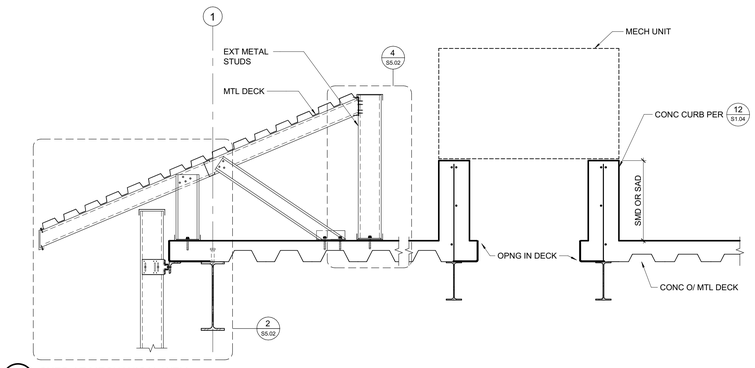
11 ELEVATOR PERPENDICULAR ROOF FRAMING
1" = 1'-0"



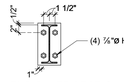
ALTERNATE BLIND FASTENER OPTION



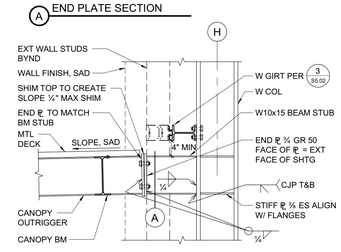
8 HSS BEAM TO HSS COLUMN
3/4" = 1'-0"



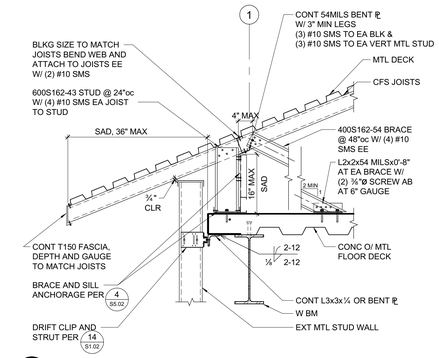
1 CURB AT MECHANICAL WELL
3/4" = 1'-0"



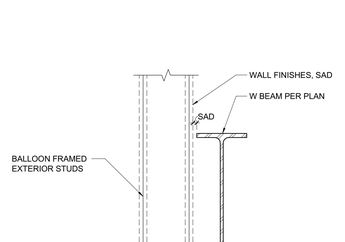
A END PLATE SECTION



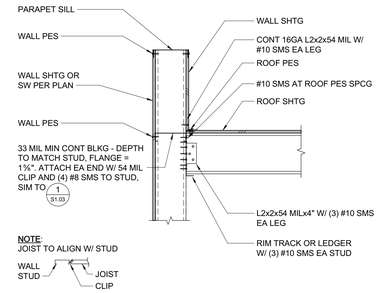
5 CANOPY OUTRIGGER TO COLUMN
3/4" = 1'-0"



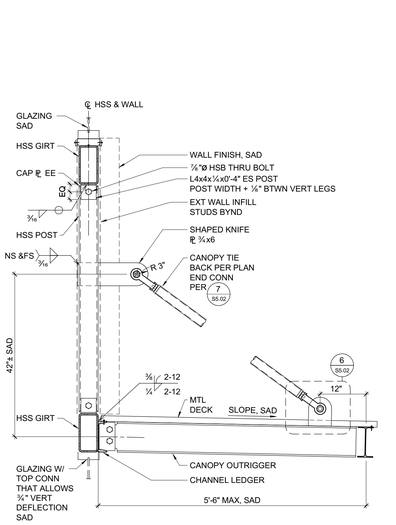
2 EAVE AT MECHANICAL WELL
3/4" = 1'-0"



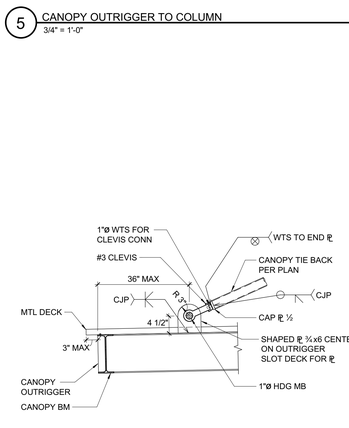
16 EXTERIOR BALLOON WALL
1 1/2" = 1'-0"



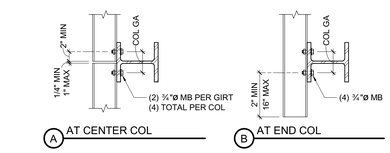
12 SECURE SHOP PERPENDICULAR FRAMING
1" = 1'-0"



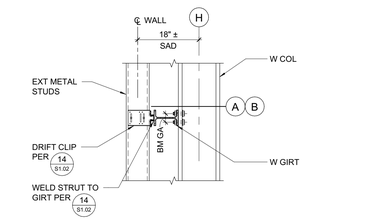
9 ENTRY CANOPY
3/4" = 1'-0"



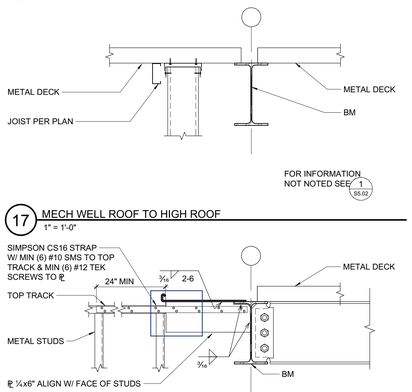
6 CANOPY TIE BACK TO OUTRIGGER
3/4" = 1'-0"



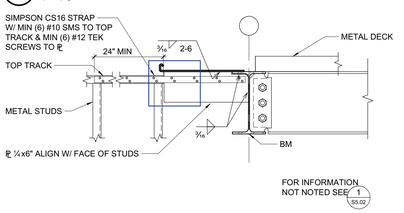
A AT CENTER COL
B AT END COL



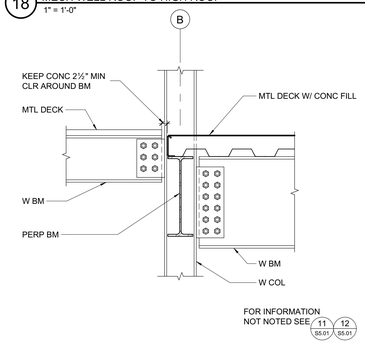
3 STEEL GIRT
3/4" = 1'-0"



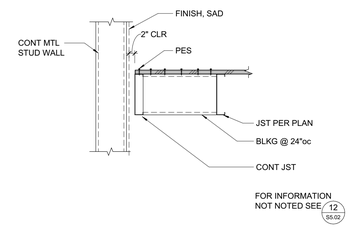
17 MECH WELL ROOF TO HIGH ROOF
1" = 1'-0"



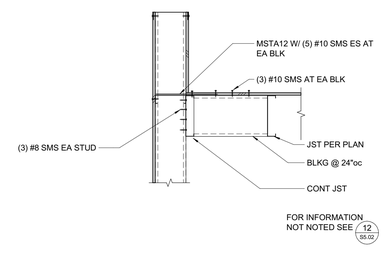
18 MECH WELL ROOF TO HIGH ROOF
1" = 1'-0"



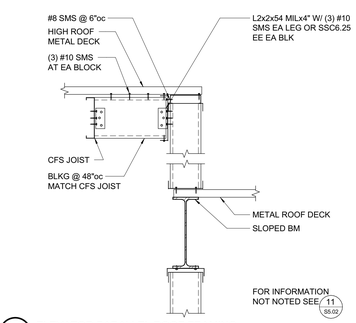
19 STEP AT CORNER FRAMING - GRID 5
3/4" = 1'-0"



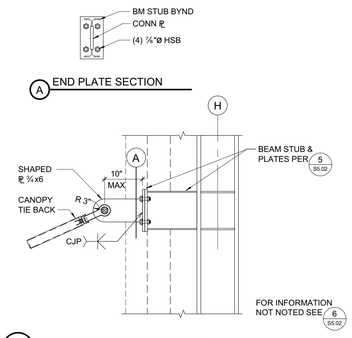
13 SECURE SHOP PARALLEL FRAMING
1" = 1'-0"



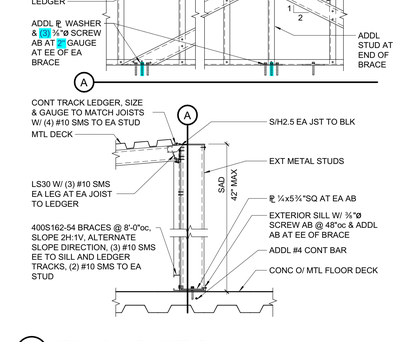
14 SECURE SHOP ROOF AT STAIR WALL
1" = 1'-0"



10 ELEVATOR PARALLEL ROOF FRAMING
1" = 1'-0"



7 CANOPY TIE BACK TO COLUMN
3/4" = 1'-0"



4 MECHANICAL WELL JOIST AT WALL
3/4" = 1'-0"

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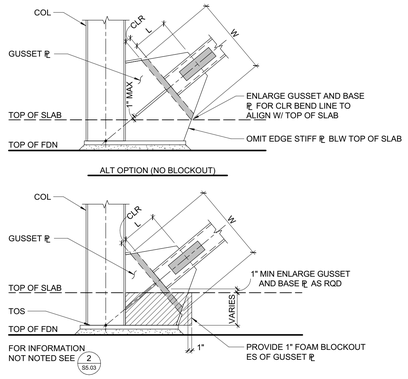
2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

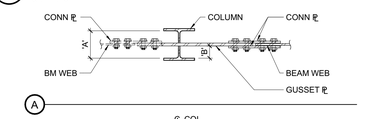
project number: 20-296
date: JUNE 6, 2024

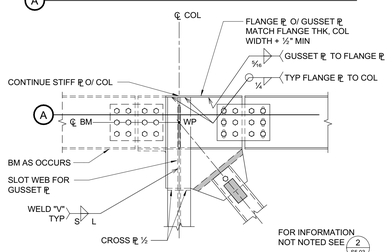
STEEL FRAMING DETAILS

S5.02

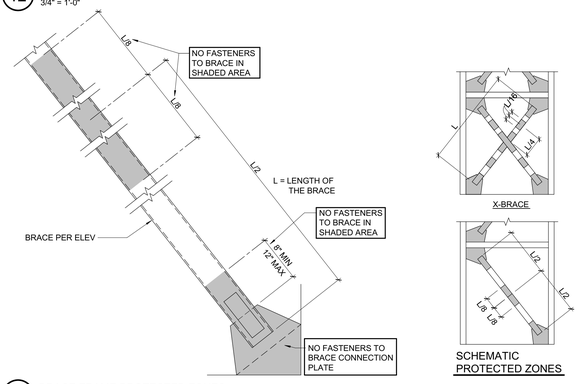


11 BLOCKOUT AT BRACED FRAME
3/4" = 1'-0"



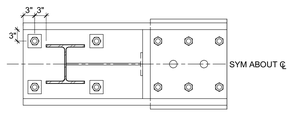


12 BRACE CONN AT WEAK AXIS COL
3/4" = 1'-0"



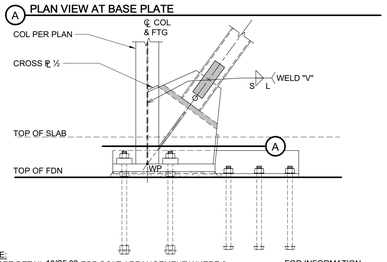
SCHEMATIC PROTECTED ZONES

13 BRACE FRAME PROTECTED ZONES
3/4" = 1'-0"



AT WEAK-AXIS WF COLUMN

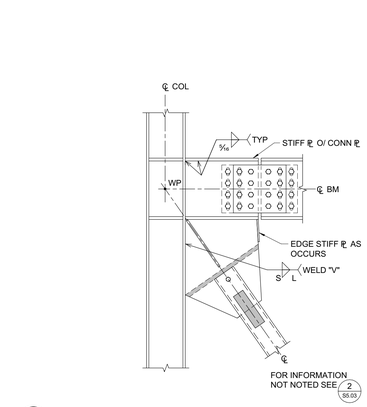
A PLAN VIEW AT BASE PLATE



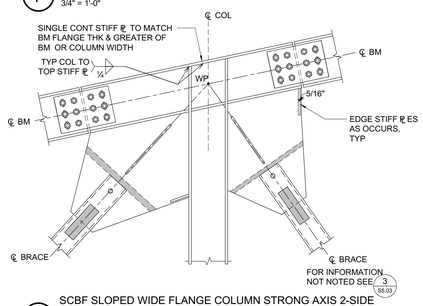
NOTE:
1. SEE DETAIL 10/SS.03 FOR BOLT ARRANGEMENT WHERE 2 BRACES ARE USED.

FOR INFORMATION NOT NOTED SEE 5 S5.03

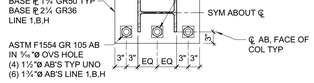
14 BRACED FRAME BASE PLATE - WEAK-AXIS COLUMN
3/4" = 1'-0"



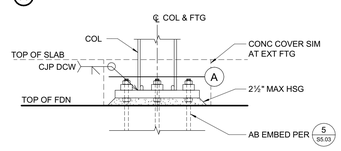
7 SCBF WIDE FLANGE COLUMN STRONG AXIS 1-SIDE BOTTOM
3/4" = 1'-0"



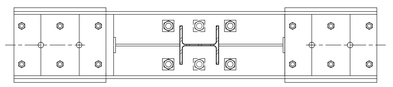
8 SCBF SLOPED WIDE FLANGE COLUMN STRONG AXIS 2-SIDE BOTTOM
3/4" = 1'-0"



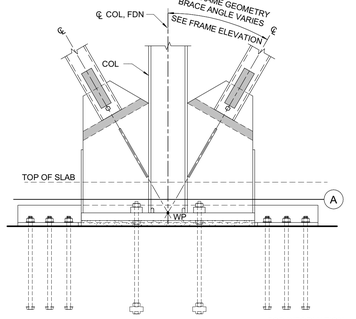
A PLAN VIEW AT BASE PLATE



9 SCBF WIDE FLANGE COLUMN STRONG AXIS NO BRACE
3/4" = 1'-0"

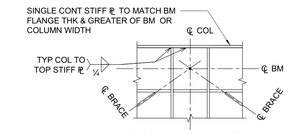


A PLAN VIEW AT BASE PLATE

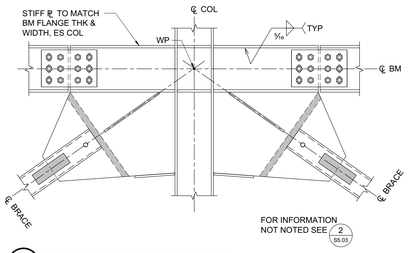


FOR INFORMATION NOT NOTED SEE 5 S5.03

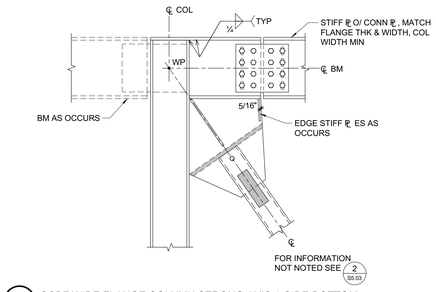
10 SCBF WIDE FLANGE COLUMNS STRONG AXIS 2 BRACE
3/4" = 1'-0"



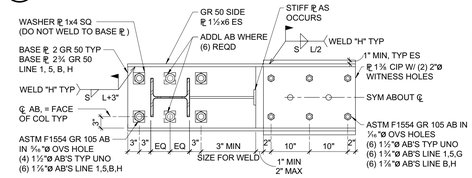
TOP OF COLUMN CONDITION



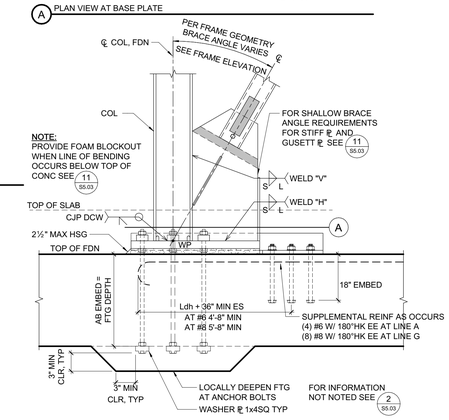
3 BRACED FRAME BEAM TO COLUMN
3/4" = 1'-0"



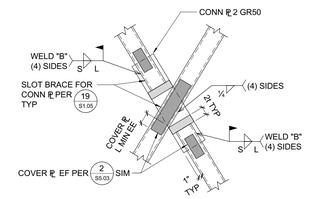
4 SCBF WIDE FLANGE COLUMN STRONG AXIS 1-SIDE BOTTOM
3/4" = 1'-0"



A PLAN VIEW AT BASE PLATE



5 SCBF WIDE FLANGE COLUMN STRONG AXIS 1 BRACE
3/4" = 1'-0"



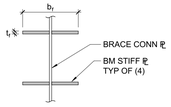
FOR INFORMATION NOT NOTED SEE 2 S5.03

6 COVER PLATE
3/4" = 1'-0"

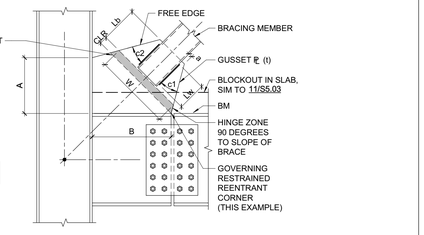
GRIDLINE	LEVEL OF BRACE	MIN CONN PLATE THICKNESS t (1) (5)	WELD "B" BRACE		WELD "H" HORIZ CONN (2)		WELD "V" VERT CONN (2)		COVER PLATE		WELD "C" COVER PLATE	
			S	MIN L (4)	S	MIN L (3)	S	MIN L (3)	t	b	S	MIN L
1	ALL	3/4"	5/16"	26"	3/4"	20"	5/16"	41"	3/4"	4.5"	1/2"	9"
5 / C-D	UPPER	3/4"	5/16"	18"		NA	5/16"	25"	3/4"	3.5"	1/2"	7"
5 / E.5-F	UPPER	3/4"	5/16"	20"		NA	5/16"	41"	3/4"	3.5"	1/2"	7"
5 / C-D	LOWER	3/4"	5/16"	23"	5/16"	23"	1/2"	35"	3/4"	4"	1/2"	8"
5 / E.5-F	LOWER	3/4"	5/16"	24"	5/16"	14"	1/2"	34"	3/4"	3"	1/2"	6"
7	ALL	1/2"	1/4"	18"	5/16"	10"	5/16"	27"	1/4"	2"	3/16"	4"
A	ALL	1/2"	5/16"	22"	5/16"	13"	1/2"	31"	1/4"	3"	3/16"	5"
B	UPPER	3/4"	5/16"	24"		NA	1/2"	39"	5/16"	3"	1/2"	6"
B	LOWER	3/4"	5/16"	26"	3/4"	21"	1/2"	43"	5/16"	3"	1/2"	6"
D.5	ALL	1/2"	5/16"	18"	5/16"	13"	3/4"	32"	1/4"	2"	3/16"	4"
G	ALL	5/8"	5/16"	24"	1/2"	20"	3/4"	38"	1/4"	3"	3/16"	5"
H / 1-2	ALL	5/8"	5/16"	32"	5/8"	18"	3/4"	44"	3/4"	3.5"	1/2"	7"
H / 4-5	ALL	5/8"	5/16"	26"	5/8"	12"	3/4"	41"	3/4"	3.5"	1/2"	7"

NOTES:
1. SEE FRAME ELEVATIONS FOR BRACE LOCATIONS.
2. COMPLETE JOINT PENETRATION GROOVE WELDS MAY BE SUBSTITUTED FOR SPECIFIED FILLET WELDS.
3. LENGTH OF WELD SHALL BE THE FULL LENGTH OF THE GUSSET BUT NOT LESS THAN THE MINIMUM LENGTH NOTED. FABRICATOR TO VERIFY THAT THE GUSSET PLATES FURNISHED ARE OF SUFFICIENT SIZE TO ACHIEVE THE WELD NOTED ABOVE.
4. WELD 4 SIDES OF BRACE OR HSS TO CONNECTION PLATE.
5. CONNECTION PLATE THICKNESS ON DETAILS GOVERN OVER TABLE.
6. WHERE TWO (2) CONNECTION PLATE THICKNESSES ARE SPECIFIED FOR A CONNECTION, USE SINGLE FULL THICKNESS OF THICKER PLATE.
7. USE ASTM GR 50 CONNECTION PLATES, UNO.

1 BRACED FRAME CONNECTION SCHEDULE
3/4" = 1'-0"

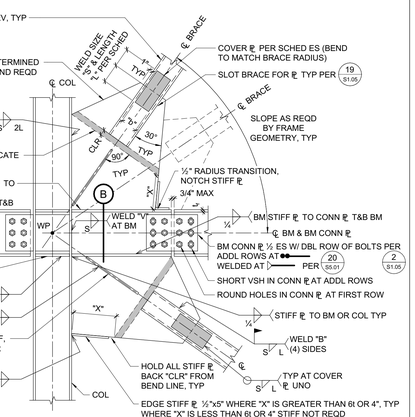


B SECTION VIEW



1. VERIFY THAT ANGLE c1 IS SIMILAR TO SPECIFIED ANGLE c2 (+/- 2 DEGREES).
2. DETERMINE A AND B DIMENSIONS BASED UPON PLATE INFORMATION SHOWN.
3. VERIFY THAT THE EXTENSION OF THE HINGE ZONE LINE OF RESTRAINT DOES NOT INTERSECT THE PLATE DIMENSIONS A OR B BUT CROSSES THE FREE EDGE OF THE GUSSET PLATE. (NOTE THAT THE HINGE ZONE LINE OF RESTRAINT STARTS FROM THE GOVERNING RESTRAINED REENTRANT CORNER AT THE END OF DIMENSION B OR A DEPENDING ON THE GEOMETRY OF THE GUSSET USING EQUATIONS IN STEEL TIPS BY ASTANEH-ASL COCHRAN, AND SABELLI (2006)).
4. NOTIFY THE STRUCTURAL ENGINEER IF ANY OF THE ABOVE ITEMS CANNOT BE MET.
5. THE DETAILER OR FABRICATOR MAY ADJUST THE A, B AND Lw DIMENSIONS (+/-¼"), AS DETAILED, IN ORDER TO FACILITATE THE FABRICATION OF THE GUSSET PLATE.
6. THE LENGTH OF Lb, THE OVERLAP OF THE BRACE ON THE GUSSET AT EA END, CAN BE SELECTED TO BE EQUAL TO Lw + 1" AND NEED NOT EXCEED Lw + 2".

A FABRICATOR NOTES FOR GUSSET PLATE DIMENSIONING



NOTES:
1. SEE FRAME ELEVATIONS FOR BRACE ANGLE AND CONFIGURATION. BRACE ANGLE DETAIL APPLIES EQUALLY TO ABOVE AND BELOW BEAM.
2. FOR BRACES, CONN ℄, AND WELDS NOT SHOWN SEE BRACE SCHEDULE 1/SS.03 .
3. FOR BEAM CONN ℄ BOLTS AND WELDS NOT SHOWN SEE BEAM SCHED 1/S1.05 .
4. t = CONN ℄ THICKNESS PER SCHEDULE MIN.
5. CLR = 2t MIN, 3t MAX.
6. WELD LENGTHS ARE MINIMUMS SEE 1/S1.05 .
7. CONNECTIONS ARE A PART OF THE SFRS.

2 TYPICAL BRACED FRAME CONNECTION
3/4" = 1'-0"

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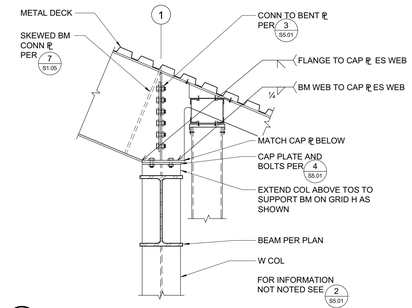
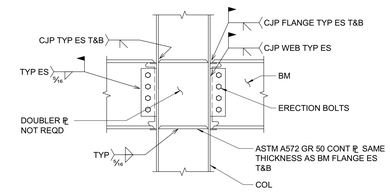
project number: 20-296
date: JUNE 6, 2024

BRACED FRAME DETAILS

S5.03

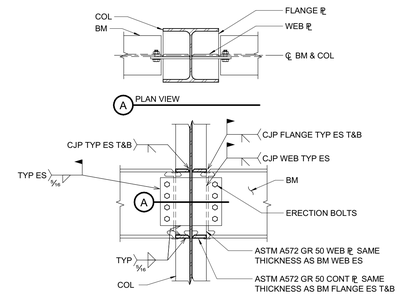


5 EAVE AT STEEL BEAM - GRID 1 AT H
3/4" = 1'-0"



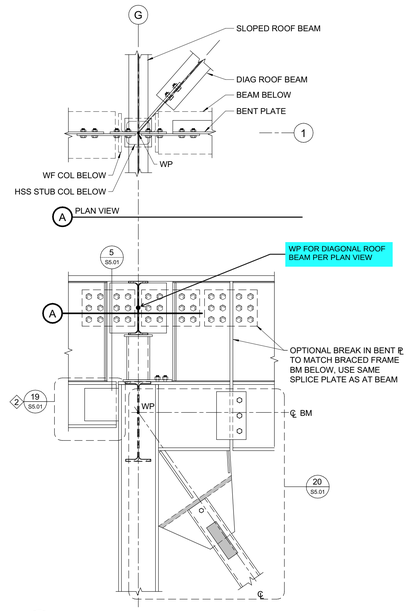
NOTES:
1. CANTILEVER BEAM SIZE TO MATCH ADJACENT BACK SPAN BEAM SIZE UNO.
2. SHORE CANTILEVER AS REQUIRED.
3. REMOVE BACKER BARS WHERE EXPOSED TO VIEW.

1 NON-FRAME MOMENT CONNECTION
3/4" = 1'-0"



NOTES:
1. CANTILEVER BM SIZE TO MATCH ADJ BACK SPAN BM SIZE UNO.
2. SHORE CANTILEVER AS REQUIRED.
3. REMOVE BACKER BARS WHERE EXPOSED TO VIEW.

2 NON-FRAME MOMENT CONNECTION
3/4" = 1'-0"



3 SCBF AT GRID 1 AND G
3/4" = 1'-0"

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ZFA STRUCTURAL ENGINEERS
601 montgomery street | suite 1450 zfa.com
san francisco ca 94111 415.243.4091
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REGISTERED PROFESSIONAL ENGINEER
ANGELA M. SOMMER
STRUCTURAL
No. 6013
STATE OF CALIFORNIA

2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

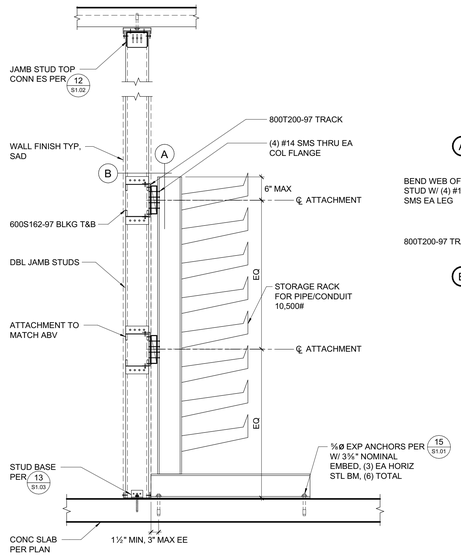
#	date	issue description

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

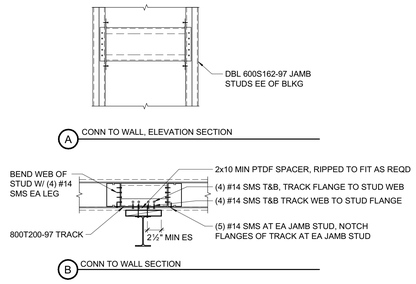
project number: 20-296
date: JUNE 6, 2024

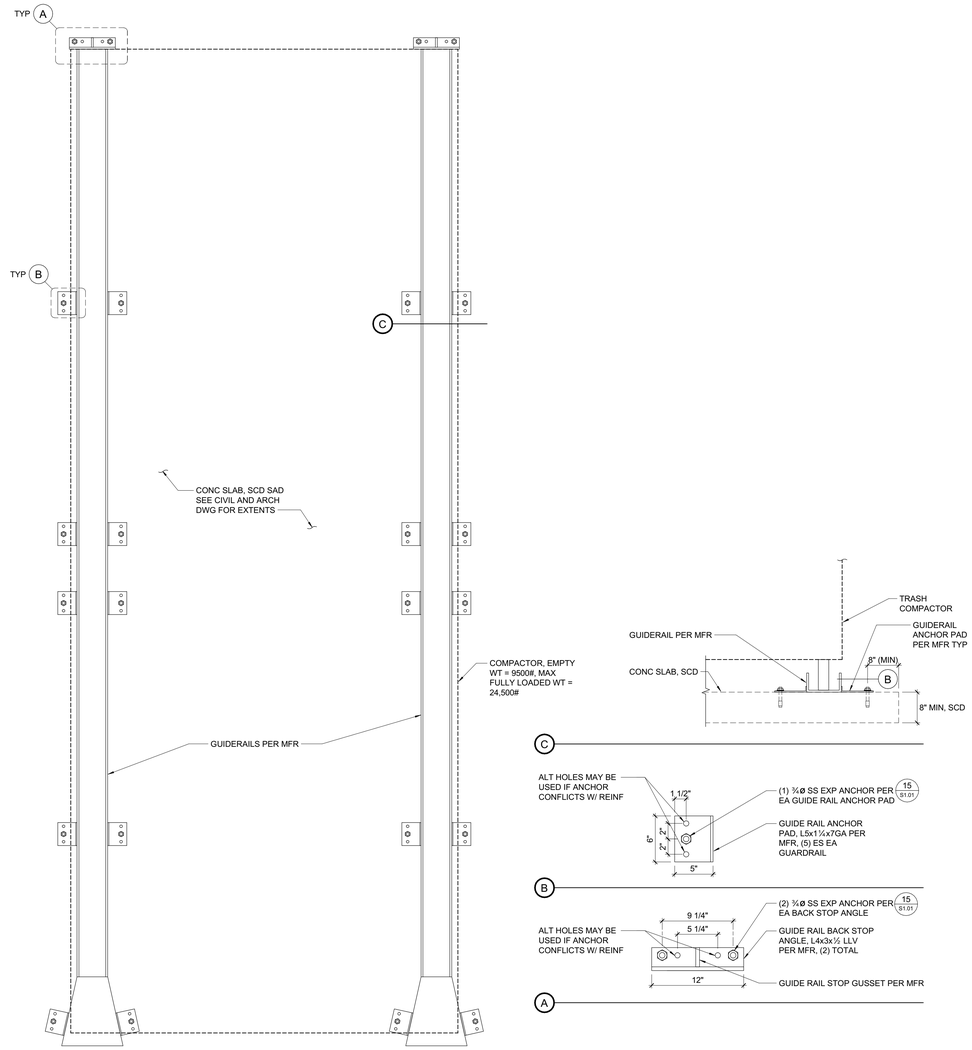
STRUCTURAL DETAILS

S5.04



4 STORAGE - PIPE/CONDUIT HORIZONTAL RACK ANCHORAGE
3/4" = 1'-0"





1 TRASH COMPACTOR ANCHORAGE - PLAN VIEW
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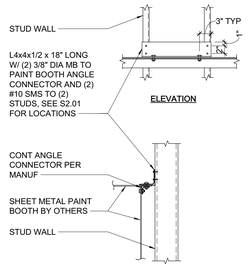

7 PAINT BOOTH TOP CONNECTION
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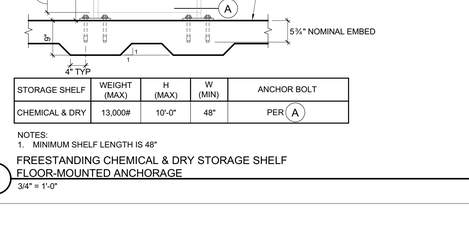
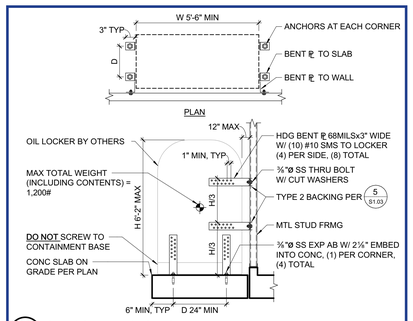


5 STORAGE - LUMBER, U LINE H-3846
3/4" = 1'-0"



8 OIL LOCKER ANCHORAGE
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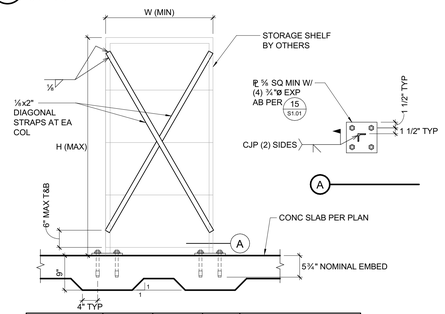
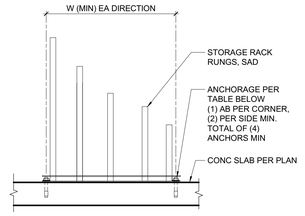


STORAGE SHELF	WEIGHT (MAX)	H (MAX)	W (MIN)	ANCHOR BOLT
CHEMICAL & DRY	13,000#	10'-0"	48"	PER A

NOTES:
1. MINIMUM SHELF LENGTH IS 48"

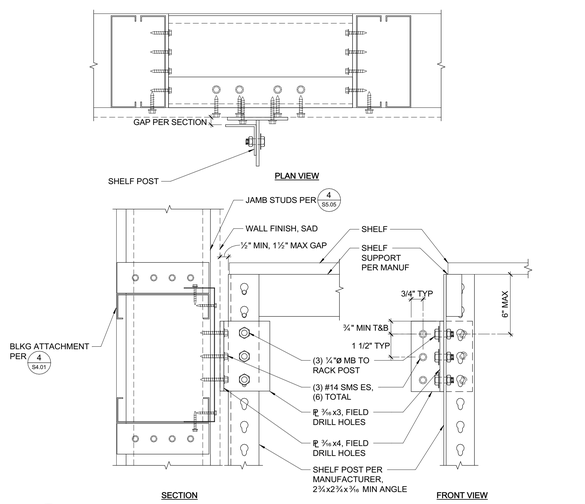
6 FREESTANDING CHEMICAL & DRY STORAGE SHELF FLOOR-MOUNTED ANCHORAGE
3/4" = 1'-0"



STORAGE SHELF	WEIGHT (MAX)	H (MAX)	W (MIN)	ANCHOR BOLT
PLYWOOD	6,150#	3'-6"	36"	½"ø EXP AB W/ 3" EMBED

NOTES:
1. MINIMUM SHELF LENGTH IS 48"

3 STORAGE SHELF PLYWOOD ANCHORAGE
3/4" = 1'-0"



2 STORAGE RACK ANCHORAGE TO WALL
3" = 1'-0"

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12/12/2024 9:54:27 AM

HGA
ARCHITECTS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-121159 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 2/19/2025

CHABOT COLLEGE

CLIENT
CHABOT COLLEGE
25555 HESPERIAN BLVD
HAYWARD, CA 94612

ARCHITECT
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CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: JUNE 6, 2024

STRUCTURAL DETAILS

S5.05

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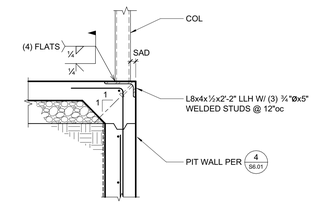
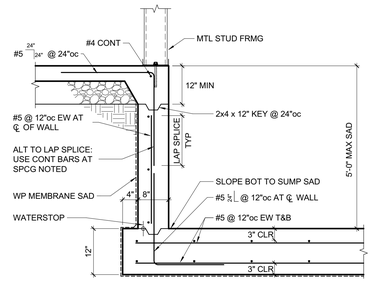


3 ELEVATOR RAIL SUPPORT AT PIT
3/4" = 1'-0"



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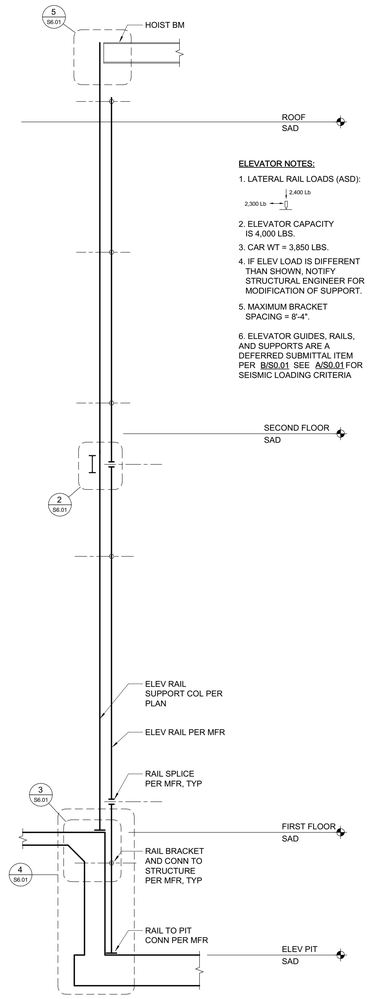
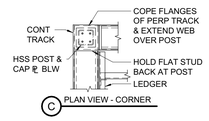
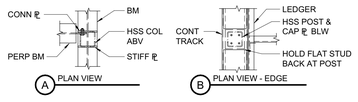
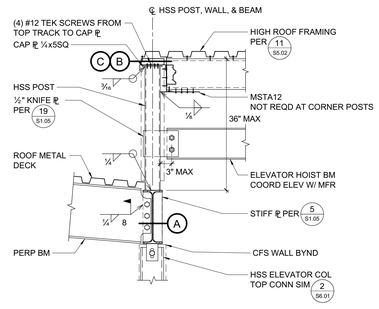


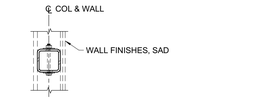
1 ELEVATOR RAIL
1/4" = 1'-0"

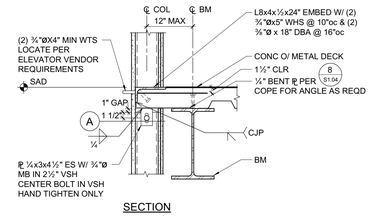






5 ELEVATOR HOIST BM AT HIGH ROOF
3/4" = 1'-0"





SECTION

2 HSS ELEVATOR RAIL SUPPORT CONNECTION
3/4" = 1'-0"

HGA

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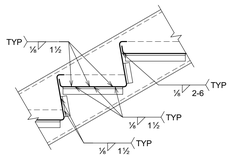
25555 HESPERIAN BLVD, HAYWARD, CA 94545

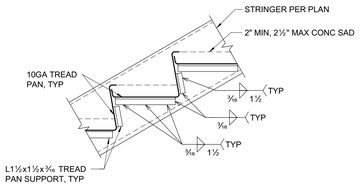
project number: 20-296
date: JUNE 6, 2024

ELEVATOR
ELEVATION AND DETAILS

S6.01

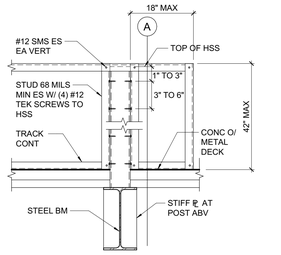


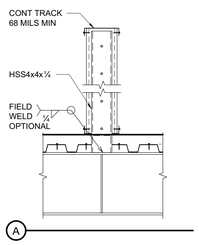
A TREAD PAN TO ANGLE SUPPORTS



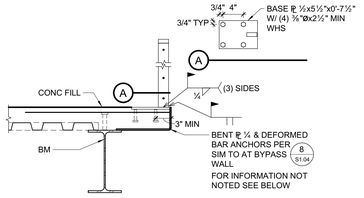
B ANGLE SUPPORTS TO STRINGER

10 TREAD TO STRINGER CONNECTION
1" = 1'-0"

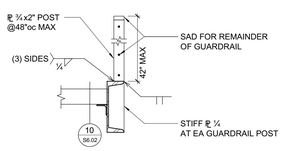




11 PARTIAL HEIGHT WALL AT STAIRS
1" = 1'-0"

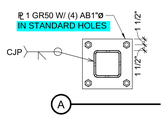


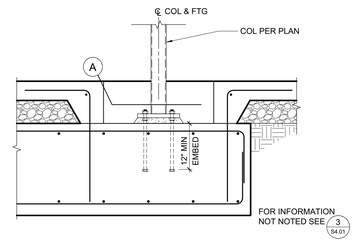
AT CONCRETE SLAB



AT STEEL STRINGER

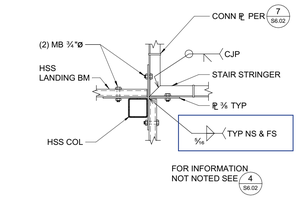
12 TREAD TO STRINGER CONNECTION
1" = 1'-0"



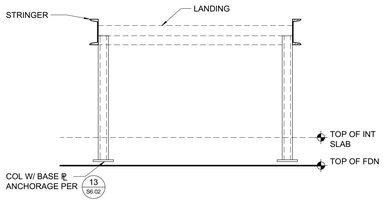


FOR INFORMATION NOT NOTED SEE 3 S4.01

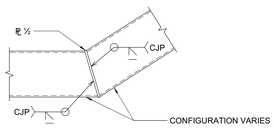
13 PAD FOOTING AT STAIRS
3/4" = 1'-0"



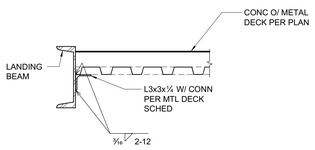
5 STAIR CORNER
3/4" = 1'-0"



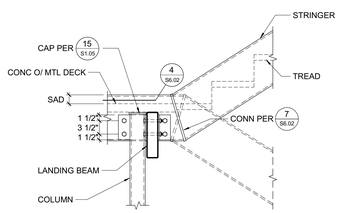
6 LANDING CROSS SECTION
1/2" = 1'-0"



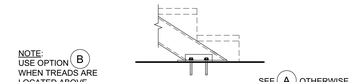
7 SHAPED STRINGER CONNECTION
3/4" = 1'-0"



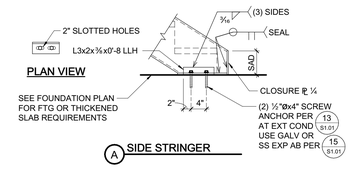
8 STAIRWAY LANDING
1" = 1'-0"



9 HSS COLUMN AT STRINGER
3/4" = 1'-0"

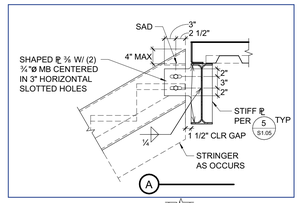


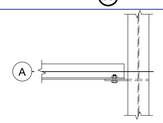
B CENTER STRINGER



A SIDE STRINGER

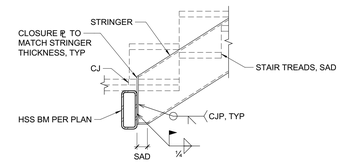
1 BOTTOM OF STRINGER TO CONC FLOOR
3/4" = 1'-0"



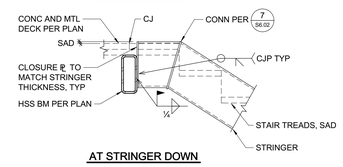


TOP VIEW

2 STRINGER CONNECTION TO W SHAPE
3/4" = 1'-0"

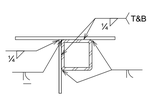


AT STRINGER UP

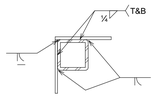


AT STRINGER DOWN

3 STRINGER TO HSS BEAM
3/4" = 1'-0"



WELDS



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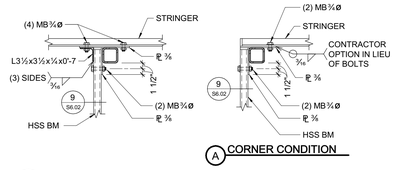
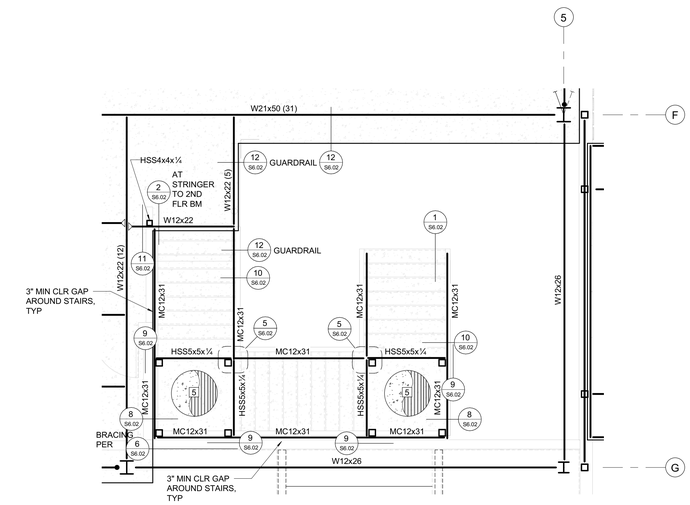
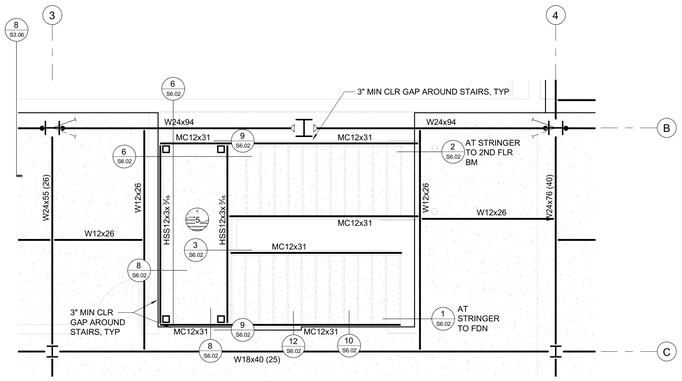


A CORNER CONDITION

4 VERTICAL HSS LANDING CONNECTION
3/4" = 1'-0"



A STAIR 1 FRAMING PLAN
1/4" = 1'-0"



B STAIR 2 FRAMING PLAN
1/4" = 1'-0"

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ANGELA M. SOMMER
STRUCTURAL
No. 6013
STATE OF CALIFORNIA

#	date	issue description
2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

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25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: JUNE 6, 2024

STEEL STAIR PLANS AND DETAILS

S6.02

FRAMING PLAN NOTES:

1. REFER TO SHEETS S0.01 AND S1.01 THROUGH S1.05 FOR GENERAL NOTES AND TYPICAL DETAILS. THE FOLLOWING DETAIL REFERENCES ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE ONLY. ALL GENERAL NOTES AND TYPICAL DETAIL SHEETS NOTED ABOVE ARE APPLICABLE AND SHALL BE FOLLOWED.
2. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
3. NO VERTICAL OR HORIZONTAL PIPES OR CONDUITS SHALL BE LOCATED THROUGH STEEL FRAMING, COLUMNS, OR BASE PLATES. CONDUIT OR PLUMBING NOT ALLOWED WITHIN CONCRETE FILL ON METAL DECK. PROVIDE FURRING WHERE REQUIRED TO CLEAR UTILITY SYSTEMS. NOTIFY ARCHITECT/ENGINEER PRIOR TO ANY INSTALLATION NOT CONFORMING TO THESE RESTRICTIONS.
4. FIRE PROTECTION SYSTEM SUPPORTS TO BE LOCATED TO MAINTAIN A MAXIMUM OF (2) 500 LB MAX POINT LOADS WITH 15'-0" MINIMUM SEPARATION TO ANY STEEL BEAM. NO SUPPORTS TO BE HUNG FROM METAL DECKING.
5. SEE ARCHITECTURAL DRAWINGS FOR EDGE OF SLAB, FACE OF WALL, ETCETERA.
6. SEE ARCHITECTURAL DRAWINGS FOR TOP OF SLAB OR TO TOP OF STEEL ELEVATION.
7. BEAM CENTERLINES TO ALIGN WITH COLUMN CENTERLINES, UNLESS NOTED OTHERWISE.
8. BEAMS TO BE EQUALLY SPACED IN EACH BAY, UNLESS NOTED OTHERWISE.

PLAN LEGEND

SYMBOL	REFERENCE DETAIL	DESCRIPTION
88		INDICATES GRIDLINE AT CENTERLINE OF COLUMN.
SFRS	E/S0.01	INDICATES LINE LOCATING STEEL ELEMENTS OF THE SEISMIC FORCE RESISTING SYSTEM.
		INDICATES STEEL COLUMN.
W16x26 (12)	17/S1.04	INDICATES BEAM SIZE, (NUMBER OF WELDED STUDS). PROVIDE STUDS @ 24"oc MAX SPACING AT ALL BEAMS SUPPORTING CONCRETE FILL OVER METAL DECK, UNLESS NOTED OTHERWISE. ADD STUDS AS REQUIRED. (NS) INDICATES NO STUDS. FABRICATE BEAM WITH NATURAL CAMBER UP.
	14/S1.05 1/S5.04 2/S5.04	INDICATES NON-FRAME MOMENT RESISTING CONNECTION.
	20/S5.01	AT BRACED FRAME.
	2/S1.05	INDICATES SEISMIC FORCE RESISTING SYSTEM COLLECTOR CONNECTION, PROVIDE ADDITIONAL ROWS OF BOLTS WHERE NOTED AT CONNECTION PER TYPICAL DETAILS.
	19/S5.01	INDICATES WELDED SEISMIC FORCE RESISTING SYSTEM COLLECTOR CONNECTION.
		INDICATES BRACED FRAME ABOVE.
		INDICATES BRACED FRAME BELOW.
BRACE	9/S1.05	INDICATES DIAGONAL BRACE CONNECTED TO BOTTOM FLANGE OF BEAM. HEAD OF ARROW INDICATES THE UPPER CONNECTION. SPACE BRACES EQUALLY UNLESS NOTED OTHERWISE.
1 / 1	1/S1.04	INDICATES METAL DECK (WITH CONCRETE FILL AS OCCURS) AND DIRECTION OF DECK SPAN.
	1/S1.04	INDICATES AREA OF TIGHTENED METAL DECK FASTENER SPACING.
DS		INDICATES DEPRESSED SLAB, SEE ARCHITECTURAL AND PLUMBING DRAWINGS FOR COMPLETE LOCATIONS, DEPTH AND SLOPE INFORMATION.
	1/S1.02	INDICATES COLD FORMED STEEL WALL ABOVE.
	1/S1.02	INDICATES COLD FORMED STEEL WALL BELOW.
MU 1,000#	4/S1.04	INDICATES APPROXIMATE LOCATION, SIZE AND MAXIMUM WEIGHT OF MECHANICAL UNIT. SEE MECHANICAL DRAWINGS FOR ANCHORAGE AND ADDITIONAL INFORMATION.
1 / S3.1		INDICATES ELEVATION.
		INDICATES STEP IN ELEVATION, SEE ARCHITECTURAL DRAWINGS.

FOUNDATION PLAN NOTES:

1. REFER TO SHEETS S0.01 AND S1.01 THROUGH S1.05 FOR GENERAL NOTES AND TYPICAL DETAILS. THE FOLLOWING DETAIL REFERENCES ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE ONLY. ALL GENERAL NOTES AND TYPICAL DETAILS NOTED ABOVE ARE APPLICABLE AND SHALL BE FOLLOWED.
2. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
3. SEE DETAILS OR CURB PLAN FOR CURB LOCATIONS. COORDINATE WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
4. PLUMBING AND ELECTRICAL CONDUIT AND GROUND STRAP SHALL NOT BE LAID WITHIN FOUNDATIONS. NO UTILITY PIPES OR CONDUITS SHALL BE LOCATED THRU COLUMN FOOTINGS OR FRAME FOOTINGS. NO VERTICAL OR HORIZONTAL PIPES OR CONDUITS SHALL BE LOCATED THROUGH STEEL FRAMES, STEEL COLUMNS, OR STEEL BASE PLATES. PROVIDE FURRING AND/OR THICKENED CONCRETE WHERE REQUIRED TO CLEAR UTILITY SYSTEMS. NOTIFY STRUCTURAL ENGINEER/ARCHITECT PRIOR TO ANY INSTALLATION NOT CONFORMING TO THESE DETAILS.

   PIPES THROUGH FOOTINGS SHALL BE PER 2/S1.01 AND 3/S1.01.

   PIPES PARALLEL TO FOOTINGS SHALL BE PER 4/S1.01.

   PIPES AT SLAB ON GRADE SHALL BE PER 7/S1.01.
5. ELEVATION OF THE TOP OF FINISHED SLAB = 0'-0", UNLESS NOTED OTHERWISE.

PLAN LEGEND

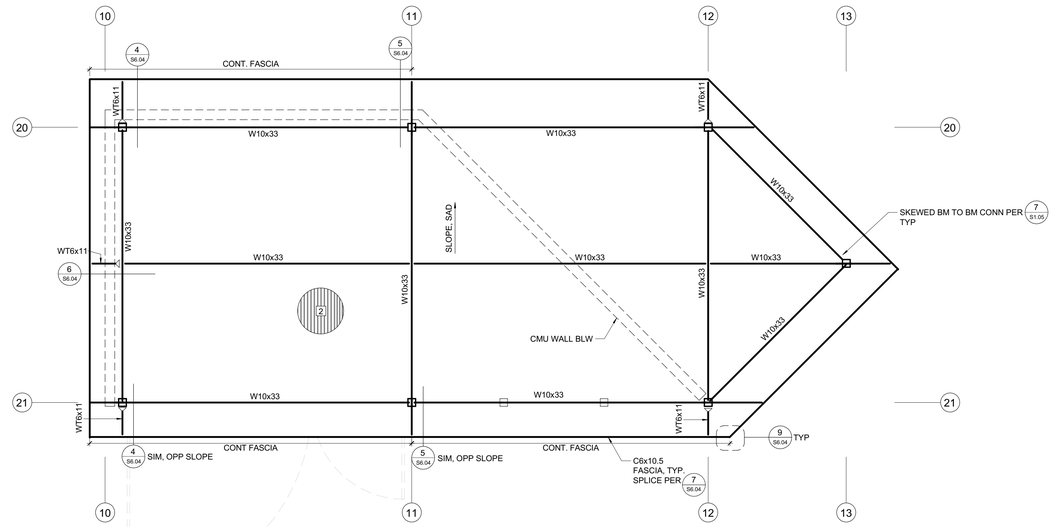
SYMBOL	REFERENCE DETAIL	DESCRIPTION
	1/S1.02	INDICATES COLD FORMED STEEL WALL.
		INDICATES STEEL COLUMN.
		INDICATES FOUNDATION.
CF24		INDICATES CONTINUOUS FOOTING SIZE AND REINFORCING PER SCHEDULE.
F2.0		INDICATES PAD FOOTING SIZE AND REINFORCING PER SCHEDULE.
88		INDICATES GRIDLINE AT CENTERLINE OF COLUMN.
SFRS	E/S0.01	INDICATES LINE LOCATING STEEL ELEMENTS OF THE SEISMIC FORCE RESISTING SYSTEM.
1 / S3.1		INDICATES ELEVATION.
		INDICATES BRACED FRAME ABOVE.
	J/S0.01	INDICATES COLD FORMED SHEAR WALL.
	10/S4.01	INDICATES HD AT COLD FORMED SHEAR WALL.
		INDICATES CMU WALL.

CONTINUOUS FOOTING SCHEDULE

MARK	'b'	'd'	REINF 'a'	NOTES
CF18	18"	24"	(2) #5 T&B	PROVIDE #3 TIES @ 24"oc
CF24	24"	24"	(3) #5 T&B	PROVIDE #3 TIES @ 24"oc
CF48	48"	24"	(8) #6 T&B	(4) #4 VERT LEGS @ 16"oc
CF72	72"	36"	(8) #6 T&B	(5) #4 VERT LEGS @ 16"oc
CF96	96"	36"	(10) #9 T&B	(6) #4 VERT LEGS @ 14"oc
CF108	108"	36"	(18) #9 T&B	(7) #4 VERT LEGS @ 14"oc

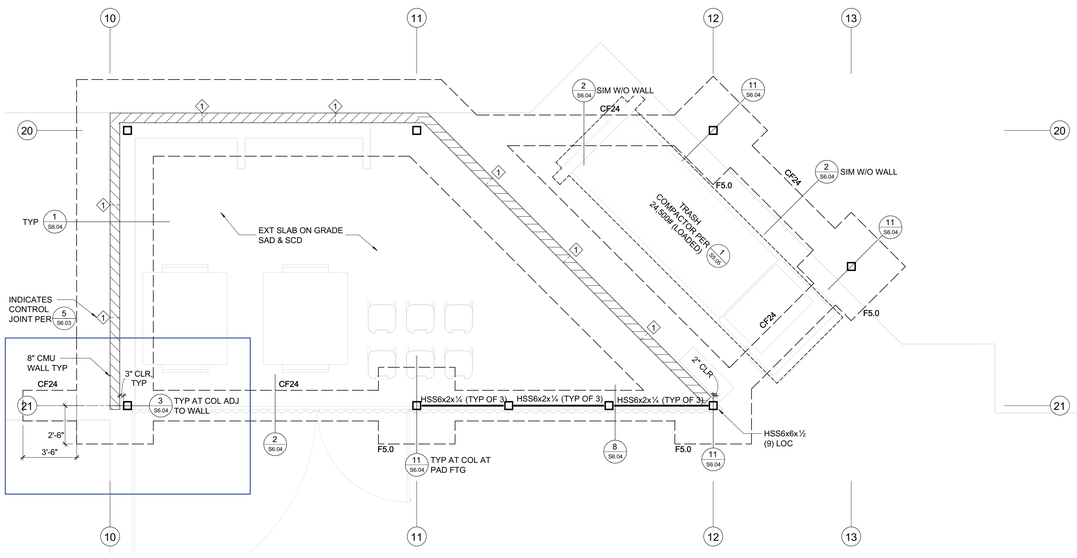
PAD FOOTING SCHEDULE

MARK	SIZE	REINFORCING
F3.0	3'-0" SQ x 24" DEEP	(4) #5 T&B EW
F4.0	4'-0" SQ x 24" DEEP	(5) #5 T&B EW
F5.0	5'-0" SQ x 24" DEEP	(6) #5 T&B EW
F6.0	6'-0" SQ x 24" DEEP	(7) #6 T&B EW
F7.0	7'-0" SQ x 24" DEEP	(7) #6 T&B EW
F8.0	8'-0" SQ x 24" DEEP	(8) #6 T&B EW
F9.0	9'-0" SQ x 24" DEEP	(9) #6 T&B EW



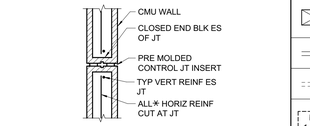
TRASH ENCLOSURE - ROOF FRAMING PLAN

1/4" = 1'-0"



TRASH ENCLOSURE - FOUNDATION PLAN

1/4" = 1'-0"



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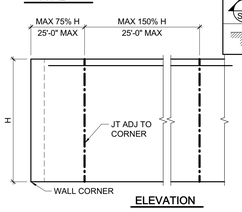
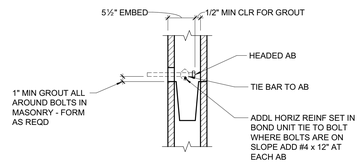


ELEVATION

5 CMU WALL CONTROL JOINT
3/4" = 1'-0"



NOTE:
1. USE TEMPLATE TO SET ALL BOLTS.
2. EMBEDMENT TOLERANCE IS ±½" AND AS REQUIRED FOR CLEARANCE TO CMU.
3. AB SHALL PROJECT NOT LESS THAN ¼" OR MORE THAN 1" BEYOND NUT. REMOVE EXCESS THREADS WHERE NUT IS TO BE COUNTERSUNK FLUSH

6 BOLT EMBEDMENT SCHEDULE
1" = 1'-0"

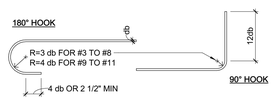
MINIMUM BAR LAPS FOR REINFORCING STEEL AT MASONRY STRENGTH: 2000 PSI OR GREATER (STAGGER SPLICES)					
SIZE	LAP LENGTH	SIZE	LAP LENGTH	SIZE	LAP LENGTH
#3	12"	#6	54"	#9	82"
#4	24"	#7	64"		
#5	36"	#8	72"		

MINIMUM CLEARANCES ..... 'CLR'

CMU TO BAR ..... ½"

BAR TO BAR ..... 2"

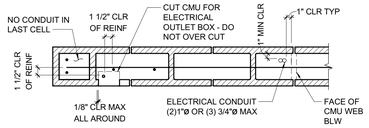
ALL REINFORCING BARS SHALL EXTEND AS FAR AS POSSIBLE



STANDARD HOOKS & BENDS

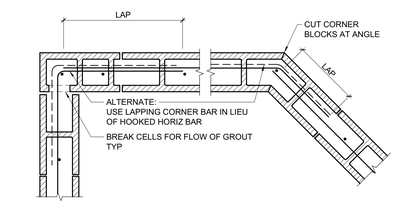
COL BAR & STRUCT OFFSET SPLICE

4 TYPICAL CMU REINFORCING DETAILS (f'm = 2000psi MIN)
3/4" = 1'-0"



NOTES:
1. DETAILS SHOWN ARE FOR WALLS ONLY.
2. CONDUITS SHALL NOT BE LOCATED IN WALL PIERS PER
3. CONDUIT SHALL BE SPACED 24"oc MIN APART.
4. DO NOT TIE CONDUIT TO PARALLEL REINFORCING.
5. PLACE CONDUIT IN CELLS WITHOUT REINFORCING.
6. DO NOT PLACE CONDUITS IN JAMB CELLS PER 1/S6.03.

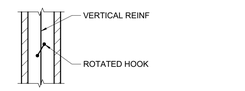
3 PIPES, CONDUIT, AND JUNCTION BOXES
1" = 1'-0"



CORNER ANGLE

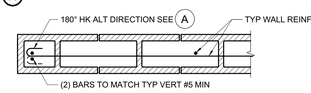
SINGLE LAYER

2 REINFORCING AT WALL INTERSECTIONS
1" = 1'-0"



SINGLE LAYER

A HORIZ REINF 180° HOOK AT END OF WALL



END OF WALL OR 4'-0" MAX OPNG

NOTES:
1. ALL JAMB BARS SHALL BE FULL HEIGHT OF WALL.
2. ELECTRICAL CONDUIT REQUIRED NEAR THE EDGE OF ANY OPENING GREATER THAN 4'-0" SHALL BE ROUTED VERTICALLY IN FIRST OPEN ADJACENT CELL (THAT IS WITHOUT JAMB BARS OR TYPICAL WALL BAR), THEN HORIZONTALLY TO DESIRED LOCATION.

1 REINFORCING AT JAMB OR END OF WALL
1" = 1'-0"

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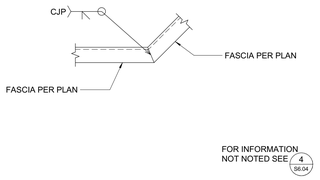
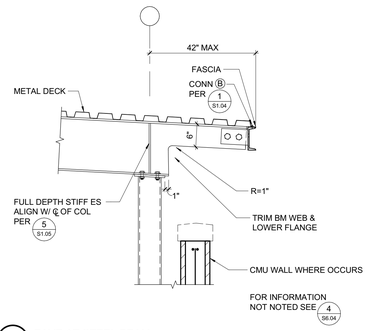
TRASH ENCLOSURE PLANS AND TYPICAL DETAILS

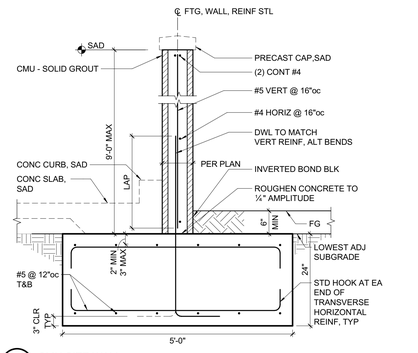
S6.03



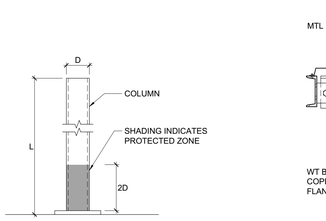
9 FASCIA CHANNEL CONNECTION
1" = 1'-0"



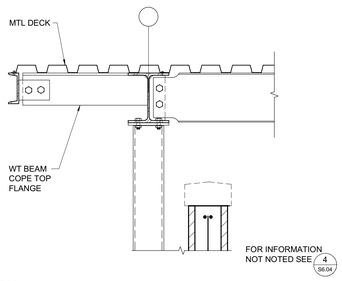
5 EAVE AT STEEL BEAM
3/4" = 1'-0"



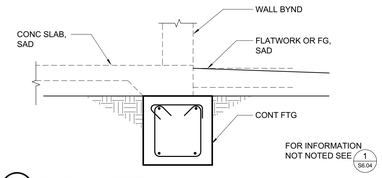
1 CMU SITE WALL
3/4" = 1'-0"



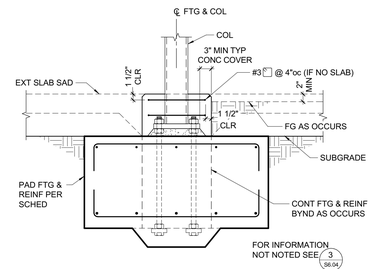
10 CANTILEVERED COLUMN PROTECTED ZONE
3/4" = 1'-0"



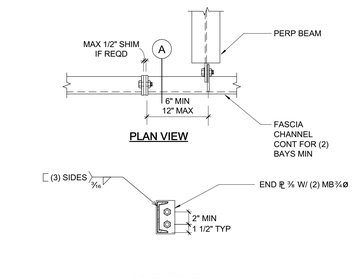
6 CANTILEVER MOMENT CONNECTION PERP. DECK
1" = 1'-0"



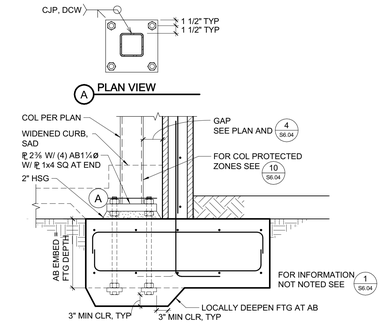
2 CONTINUOUS FOOTING
3/4" = 1'-0"



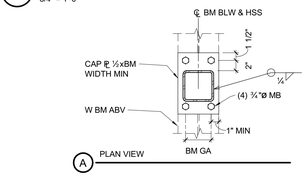
11 HSS COLUMN PAD FOOTING
3/4" = 1'-0"

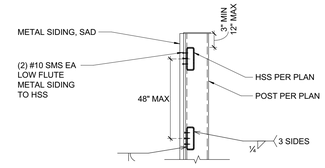


7 FASCIA CHANNEL SPLICE
1" = 1'-0"

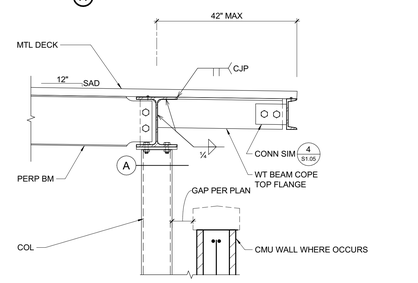


3 BASE OF COLUMN AT WALL
3/4" = 1'-0"





8 METAL FENCE TO HSS
3/4" = 1'-0"



4 CANTILEVER MOMENT CONNECTION
1" = 1'-0"

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	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

#	date	issue description

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: JUNE 6, 2024

TRASH ENCLOSURE DETAILS

S6.04

MECHANICAL SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

AFF	ABOVE FINISHED FLOOR
AD	ACCESS DOOR
A/C	AIR CONDITION(ED)
AHU	AIR HANDLING UNIT
BDD	BACKDRAFT DAMPER
BFP	BACKFLOW PREVENTER
BFF	BELOW FINISHED FLOOR
B	BOILER
BHP	BRAKE HORSEPOWER
CD	CEILING DIFFUSER
CL	CENTERLINE
CV	CHECK VALVE
CH	CHILLER
COP	COEFFICIENT OF PERFORMANCE
CW	COLD WATER
CD	CONDENSATE DRAIN
CU	CONDENSING UNIT
CONT.	CONTINUATION
CT	COOLING TOWER
DB	DECIBEL
DP	DEW POINT, DIFFERENTIAL PRESSURE
DIA	DIAMETER
DX	DIRECT EXPANSION
DG	DOOR GRILLE
D	DROP
DB	DRY BULB
EFF	EFFICIENT
EDH	ELECTRIC DUCT HEATER
ELECT	ELECTRICAL
EL	ELEVATION
EER	ENERGY EFFICIENCY RATING
EAT	ENTERING AIR TEMPERATURE
EWT	ENTERING WATER TEMPERATURE
EF	EXHAUST FAN
ES	EXHAUST SENSOR
(E)	EXISTING
FA	FACE AREA
F	FAHRENHEIT
FC	FAN COIL
FT	FEET
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FPI	FINS PER INCH
FD	FIRE DAMPER
FC	FLEXIBLE CONNECTOR
FLA	FULL LOAD AMPS
GAL	GALLONS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HD	HEAD
HP	HEAT PUMP
HTR	HEATER
HTG	HEATING
HP	HORSEPOWER
HWC	HOT WATER COIL
IN	INCHES
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
KW	KILOWATT
LH	LATENT HEAT
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MW	MAKE-UP WATER
MAX	MAXIMUM
MIN	MINIMUM
MA	MIXED AIR
MS	MOTOR STARTER
MD	MOTORIZED DAMPER
MH	MOUNTING HEIGHT
(N)	NEW
NC	NOISE CRITERIA
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NO.	NUMBER
OC	ON CENTER
OBD	OPPOSED BLADE DAMPER
OA	OUTSIDE AIR
OSA	OUTSIDE AIR
OD	OUTSIDE DIAMETER
PH	PHASE
LBS.	POUNDS
PSI	POUNDS PER SQUARE INCH
PD	PRESSURE DROP
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SENSOR
P	PUMP
QTY	QUANTITY
REF	REFRIGERANT
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
RH	RELATIVE HUMIDITY
RLD	RELIEF DAMPER
(R)	RELOCATE/RELOCATED LOCATION
RET	RETURN
RA	RETURN AIR
RPM	REVOLUTIONS PER MINUTE
R	RISE
SEER	SEASONAL ENERGY EFFICIENCY RATING
SH	SENSIBLE HEAT
SOV	SHUT OFF VALVE
SF	SQUARE FEET
SP	STATIC PRESSURE
SA	SUPPLY AIR
T, TEMP	TEMPERATURE
TD	TEMPERATURE DIFFERENCE
MBH	THOUSAND BTU'S PER HOUR
TH	TOTAL HEAT
TP	TOTAL PRESSURE
UD	UNDERCUT DOOR
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
V	VOLT
VD	VOLUME DAMPER (HAND OPERATOR)
WC	WATER COLUMN
W	WATT
WB	WET BULB
W/	WITH

Control Symbols

- AIR TEMPERATURE SENSOR
- CARBON DIOXIDE SENSOR
- AC-1 ROOM THERMOSTAT

Dampers

- FIRE DAMPER
- FIRE/SMOKE DAMPER
- MD MOTORIZED DAMPER
- SMOKE DAMPER
- VOLUME DAMPER

Diffusers and Grilles

- 12x12 / 100 CD-1 DIFFUSER OR GRILLE IDENTIFICATION
- SLOT DIFFUSER
- EXHAUST AIR
- RETURN AIR
- RETURN/EXHAUST AIR FLOW
- SUPPLY AIR
- SUPPLY AIR FLOW

Ductwork Fittings

- ACOUSTICALLY LINED DUCT (SIZES SHOWN ARE NET INSIDE)
- BELLMOUTH
- CONCENTRIC SQUARE TO ROUND
- CONCENTRIC TRANSITION, RECTANGULAR OR ROUND
- ECCENTRIC TRANSITION, RECTANGULAR OR ROUND
- FLEXIBLE CONNECTION
- NON-SYMMETRICAL WYE
- RECTANGULAR DUCT DROP
- RECTANGULAR DUCT RISER
- RECTANGULAR MAIN WITH RECTANGULAR BRANCH
- RECTANGULAR MAIN WITH ROUND BRANCH
- RECTANGULAR OFFSET LESS THAN 15%%d
- RECTANGULAR OFFSET MORE THAN 15%%d
- ROUND DUCT DROP
- ROUND DUCT RISER
- ROUND DUCT WITH ROUND BRANCH
- ROUND WYE
- SYMMETRICAL WYE
- MITERED ELBOW WITH TURNING VANES
- RADIUSED ELBOW

General

- CONTINUATION
- X / X DETAIL NUMBER AND SHEET LOCATION
- X KEYED NOTE
- LIMIT OF DEMOLITION
- PIPE BELOW GRADE
- XXX SECTION NUMBER AND SHEET LOCATION
- DEMOLISH
- EXISTING WORK
- NEW WORK
- 30X16 RECTANGULAR DUCT SIZING
- 30"Ø ROUND DUCT SIZING

Piping Fittings, Appurtenances and Equipment

- AIR SEPARATOR
- AUTOMATIC AIR VENT
- BFP BACKFLOW PREVENTER
- CAP
- CONTINUATION
- EJ EXPANSION JOINT
- EXPANSION LOOP
- ET EXPANSION TANK
- FLOW SWITCH
- HE HEAT EXCHANGER
- HOSE BIBB
- MANUAL AIR VENT
- PIPE BELOW GRADE
- PIPE DROP
- PIPE REMOVED IN DEMOLITION
- PIPE RISE
- PIPE TO DRAIN
- PRESSURE GAUGE WITH COCK
- PRESSURE RELIEF VALVE
- PRESSURE SENSOR
- PUMP
- SHOCK ABSORBER
- T&P RELIEF VALVE WITH PIPE TO DRAIN
- TEE DOWN ON PIPE
- TEE UP ON PIPE
- TEMPERATURE SENSOR
- TEST PORT (PETE'S PLUG OR EQUAL)
- THERMOMETER
- VENT TO ATMOSPHERE
- M WATER METER

Piping Systems

- CHWR CHILLED WATER RETURN
- CHWS CHILLED WATER SUPPLY
- CWR CONDENSER WATER RETURN
- CWS CONDENSER WATER SUPPLY
- HWR HEATING WATER RETURN
- HWS HEATING WATER SUPPLY
- RL REFRIGERANT LIQUID
- RS REFRIGERANT SUCTION

Piping Valves

- BALANCING VALVE
- CHECK VALVE
- CONTROL VALVE
- GATE VALVE
- GLOBE VALVE
- PRESSURE REDUCING VALVE
- QUARTER TURN VALVE
- VALVE, GENERAL

GENERAL SEISMIC NOTES

A. PROVIDE SEISMIC BRACING OF HVAC EQUIPMENT, DUCTWORK, AND PIPING IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST BUILDING CODE WITH AN IMPORTANCE FACTOR IDENTIFIED ON ARCHITECTURAL AND STRUCTURAL DOCUMENTS.

B. REFER TO STRUCTURAL DRAWINGS FOR CONCRETE ANCHOR TYPE AND INSTALLATION REQUIREMENTS.

C. SUBMIT SEISMIC BRACING DETAILS FOR REVIEW.

D. UNLESS THE STRUCTURAL DRAWINGS HAVE AN ENGINEERED SYSTEM, OR THE CONTRACTOR PROVIDES ENGINEERED SYSTEMS SIGNED BY A CALIFORNIA REGISTERED CIVIL OR STRUCTURAL ENGINEER, SUPPORT AND BRACE DUCTWORK, PIPING, AND APPURTENANCES WITH OSHPD PER-APPROVED SYSTEMS (WHETHER AN OSHPD PROJECT OR NOT):

1. OPM-0043-13 MASON SEISMIC RESTRAINT COMPONENTS FOR SUSPENDED UTILITIES, OR EQUAL.
2. OPM-0052-13 EATON/TOLCO SEISMIC BRACING & HANGERS.

E. WITHOUT ANY EXCEPTIONS, BRACE EVERY RUN OF DUCT DESIGNED TO CARRY TOXIC OR EXPLOSIVE GASSES, OR USED FOR SMOKE CONTROL OR PRESSURIZATION AIR. FOR OTHER DUCTWORK BRACE EVERY RUN OF DUCT WITH A CROSS SECTIONAL AREA OF LARGER THAN 6 SQ FT., EXCEPT THAT BRACING OF DUCTWORK WITH SUPPORT ROD LENGTH LESS THAN 12 INCHES IS NOT REQUIRED. ROD LENGTH SHALL BE AS MEASURED FROM TOP OF DUCT TO BOTTOM OF SUPPORT WHERE THE HANGER IS ATTACHED. SEISMIC BRACING, WHERE SHOWN ON DRAWINGS, IS THE MINIMUM REQUIRED; PROVIDE ADDITIONAL BRACING AS REQUIRED BY OPM-0043-13, OR EQUAL.

F. WHERE BRACING IS REQUIRED BRACE DUCTWORK FOR EACH STRAIGHT RUN OF DUCT WITH THE FOLLOWING REQUIREMENTS (SEE OPM-0043-13 FOR ADDITIONAL REQUIREMENTS):

1. LONGITUDINAL BRACING: MINIMUM 1, WITH MAXIMUM SPACING OF 60'.
2. TRANSVERSE BRACING: MINIMUM TWO, WITH MAXIMUM SPACING OF 30', AT END OF DUCT RUNS HAVING MIN OF 2 SUPPORTS, AND AT EVERY DROP OR RISE EXCEPT FOR CONNECTION TO DIFFUSERS WHERE THE ELEVATION CHANGE OF CONNECTING DUCTWORK IS LESS THAN 24 INCHES.

DSA ANCHORAGE NOTES

MEP COMPONENT ANCHROAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTABLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT, WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAT 6 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OR RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS. OPM ARE TO BE KEPT ON SITE AFTER INSTALLATION.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP X	MD X	PP__	E__	OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
MP__	MD__	PP__	E__	OPTION 2: SHALL COMPLY WITH APPLICABLE OSHPD PRE-APPROVAL (OPM #) AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS. #OPM-0043-13, OPM 0052-13

GENERAL MECHANICAL NOTES

A. PROVIDE MISCELLANEOUS METALS AND MATERIALS FOR A COMPLETE INSTALLATION (IE. SUPPORT, BRACING, ETC.)

B. PROVIDE EQUIPMENT SUBMITTAL, FOR REVIEW, IN ACCORDANCE WITH THE SPECIFICATIONS. DO NOT DELIVER TO THE JOB SITE ANY PRODUCTS WITHOUT PRIOR REVIEW BY THE ARCHITECT. SUBMIT ALL REQUIRED SUBMITTALS AT ONE TIME. AT CONTRACTOR'S OPTION, 3 SEPARATE SUBMITTALS MAY BE SUMBITTED, CONSISTING OF: UNDERGROUND WORK, BUILDING WORK, AND BUILDING AUTOMATION SYSTEM – DEVIATIONS WILL BE RETURNED WITHOUT REVIEW, INCOMPLETE SUBMITTALS WILL BE RETURNED WITHOUT REVIEW. ENGINEER WILL PROVIDE MAXIMUM OF TWO REVIEWS OF SUBMITTAL PACKAGE. ARRANGE FOR ADDITIONAL REVIEWS AND/OR EARLY REVIEW OF LONG-LEAD ITEMS AND BEAR COSTS OF THESE ADDITIONAL REVIEWS AT ENGINEER'S STANDARD HOURLY RATES. SUBSTITUTION REQUESTS WILL NOT BE REVIEWED AFTER AWARD OF CONTRACT.

C. PROVIDE SMOKE DETECTORS IN MAIN SUPPLY AIR DUCT OF ANY SUPPLY AIR SYSTEM WITH AIR QUANTITY OF MORE THAN 2000 CFM OR OF SUPPLY AIR SYSTEM(S) WHERE THE COMBINED SUPPLY AIR QUANTITY OF SUPPLY AIR SYSTEM(S) SUPPLYING AIR INTO ONE ZONE EXCEED 2000 CFM.

D. WHERE COMBINATION FIRE AND SMOKE DAMPER IS SHOWN IMMEDIATELY BEHIND A WALL MOUNTED GRILLE AND THERE IS INSUFFICIENT ACCESS AT DUCTWORK, ENLARGE THE WIDTH OF THE GRILLE AND FSD BY A MINIMUM OF 6 INCHES, OR AS OTHERWISE REQUIRED BY FSD MANUFACTURER, AND PROVIDE A "FRONT ACCESS" FSD FOR ACCESS TO FSD COMPONENTS FROM FACE OF GRILLE. INSTALL GRILLE FLUSH WITH WALL SURFACE AND LOCATE DAMPER ACTUATOR OUTSIDE OF THE AIRSTREAM. FSD'S SHALL BE RUSKIN FSD-60FA OR EQUAL.

E. AT ELEVATOR CONTROL/MACHINERY ROOMS/CLOSETS LOCATE ALL APPURTENANCES FOR FCU AND FSD'S OUTSIDE OF THE ROOM AND PROVIDE DUCT ACCESS DOORS FOR ACCESS TO FSD COMPONENTS OUTSIDE THE SPACE SERVED. CONTROL FCU FROM DUCT MOUNTED RETURN AIR TEMPERATURE SENSOR.

F. PRIOR TO SUBMISSION OF BID, REVIEW A COMPLETE SET OF CONSTRUCTION DOCUMENTS (INCLUDING ALL OTHER TRADES). INCLUDE ADDITIONAL PIPE OR DUCT OFF-SETS THAT MAY BE REQUIRED TO CLEAR STRUCTURE, FINISHES OR WORK OF OTHER TRADES. FIELD VERIFY EXACT LOCATION AND SIZES OF EXISTING UTILITIES. THE PROPOSED POINT OF CONNECTIONS TO EXISTING SYSTEMS, AND NEW ROUTINGS. EXTRA PAYMENT WILL NOT BE ALLOWED FOR WORK RESULTING FROM LACK OF APPRAISAL OF ENTIRE SCOPE OF WORK PRIOR TO BID. SYSTEM LAYOUTS AS INDICATED ON DRAWINGS ARE GENERALLY DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS ACTUAL CONSTRUCTION WILL PERMIT.

G. PROVIDE DUCT ACCESS DOORS FOR EQUIPMENT AND DEVICES REQUIRING ACCESS OR RESETTING (IE. FIRE AND SMOKE DAMPERS, SMOKE DAMPERS, SENSORS, ETC.) INDICATE SIZE AND LOCATION ON COORDINATED SHOP DRAWINGS.

H. FLASH AND COUNTER FLASH ALL ROOF PENETRATIONS TO SEAL WEATHER TIGHT (SEE ARCHITECTURAL ROOFING DETAILS AND SPECIFICATIONS).

I. INSTALL EQUIPMENT AND CURBS LEVEL. PROVIDE DUNNAGE, MISCELLANEOUS METALS, AND/OR PRESSURE TREATED LUMBER, AS REQUIRED TO INSTALL EQUIPMENT AND CURBS LEVEL.

J. PROVIDE DUCTWORK AND TRANSITIONS EQUAL TO DUCT FREE AREA SHOWN ON DRAWINGS, TO PREVENT A SPATIAL CONFLICT. AT CONTRACTOR'S OPTION AND IF SPATIAL CONSTRAINTS ALLOW IT, ROUND SPIRAL DUCTWORK, OF EQUAL CROSS-SECTIONAL AREA OR LARGER, MAY BE USED IN LIEU OF RECTANGULAR DUCTWORK WHERE SHOWN ON PLANS.

K. PROVIDE FIELD INSTALLED OR MANUFACTURER'S REFRIGERANT LINE SETS BETWEEN THE SPLIT SYSTEMS' INDOOR AND OUTDOOR COMPONENTS. SIZING, QUANTITY, AND INSTALLATION OF PIPES SHALL BE PER MANUFACTURER'S RECOMMENDATIONS BASED ON ACTUAL FIELD INSTALLED LENGTH. PROVIDE HARD WIRED THERMOSTATS AND CONTROL WIRING IN CONDUIT BETWEEN INDOOR AND OUTDOOR UNITS.

L. EQUIPMENT, HVAC DUCTS, PIPING AND OTHER DEVICES AND MATERIALS INSTALLED OUTDOORS OR EXPOSED TO WEATHER SHALL BE WEATHER PROOF.

M. USE FLEXIBLE DUCTS ONLY FOR THE LAST 5 FEET MAXIMUM AT AIR OUTLETS. PER 2022 CMC-603.4.1, EXCEPT AT AIR OUTLETS DO NOT USE FLEXIBLE DUCTWORK IN LIEU OF ELBOWS OR FITTINGS.

N. PROVIDE MANUAL VOLUME DAMPERS AT EACH GRILLE, REGISTER, AND DIFFUSER, AND LOCATE EQUIDISTANCE BETWEEN BRANCH TAKEOFF AND AIR INLET/OUTLET. DO NOT USE VOLUME DAMPERS INTEGRAL WITH GRILLES, DIFFUSERS AND REGISTERS FOR AIR BALANCING.

O. INSTALL EQUIPMENT WITH SUFFICIENT ACCESS TO PANELS, CONTROLS, FILTERS, MOTORS, ETC. COORDINATE ACCESS TO ALL DAMPERS, VALVES, AND OTHER SERVICEABLE EQUIPMENT. REVIEW CEILING HEIGHTS AND COORDINATE ACCESS PANEL LOCATIONS.

P. COORDINATE EQUIPMENT PLATFORMS, AND CUTTING AND PATCHING. OBTAIN WRITTEN PERMISSION FROM THE ARCHITECT PRIOR TO ANY STRUCTURAL MODIFICATIONS, CUTTING OR PATCHING WORK. KEEP SAW CUTTING TO A MINIMUM.

Q. VERIFY DIFFUSERS, GRILLES, AND REGISTER MOUNTING FRAME TYPES WITH CONSTRUCTION TYPE AND CONFIGURATION.

R. PAINT FLAT BLACK ALL VISIBLE INTERIOR PORTIONS OF DUCTWORK.

S. PROTECT AND ISOLATE DUCTS STORED ON CONSTRUCTION SITE FROM DUST CONTAMINATION.

T. COORDINATE LOCATION OF SENSORS AND THERMOSTATS WITH ARCHITECT. COMPLY WITH ADA REQUIREMENTS.

U. SEE EQUIPMENT SCHEDULES FOR BRANCH PIPE SIZES TO EQUIPMENT, WHERE PIPE SIZES ARE NOT SHOWN ON PLANS.

V. PROVIDE REMOTE DAMPER OPERATORS AS MANUFACTURED BY YOUNG REGULATOR COMPANY, MODEL 315 AND 270-275, OR EQUAL, FOR DAMPERS ABOVE INACCESSIBLE CEILINGS (SUCH AS GYPBORAD).

W. COORDINATE WITH DIVISION 26 FOR LOCATION OF POWER AND LOCAL DISCONNECTS FOR MECHANICAL EQUIPMENT DEVICES. PROVIDE STARTERS FOR EQUIPMENT WITHOUT VFD'S, ECM MOTORS, OR EQUIPMENT WITHOUT INTEGRAL STARTERS.

X. INSTALL PRODUCT CONVEYING DUCTS, AS DEFINED BY 2022-CMC-505.8, WITH CLEARANCES TO CONSTRUCTION AND MATERIALS AS DEFINED IN 2022-CMC-506.10. WHERE SPACES PROVIDED ARE NOT ADEQUATE, PROVIDE CLEARANCE REDUCTION MATERIAL AND SYSTEMS AS REQUIRED BY 2022-CMC-506.11, AND AS REQUIRED TO ALLOW INSTALLATION OF DUCTWORK WITHIN SPACES PROVIDED. PROTECT PRODUCT CONVEYING DUCTS SUBJECT TO DAMAGE WITH GUARDS SUITABLE TO WITHSTAND THE POSSIBLE DAMAGE.

Y. MAINTAIN MINIMUM ELECTRICAL CODE AND UNIT MANUFACTURER'S CLEARANCES TO ADJACENT CONSTRUCTION OR EQUIPMENT, PER CEC OR THE FOLLOWING TABLE:

	0-150 VOLT	150-600
NO LIVE OR GROUNDED PARTS ON OPPOSITE SIDE	36 INCH	36 INCH
GROUNDED PARTS ON OPPOSITE SIDE	36 INCH	42 INCH
LIVE PARTS ON OPPOSITE SIDE	36 INCH	48 INCH

SHEET INDEX

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M0.05	TITLE 24 - MECHANICAL
M0.06	TITLE 24 - MECHANICAL
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M0.08	TITLE 24 - MECHANICAL
M1.01	GROUND FLOOR ZONING PLAN - MECHANICAL
M1.02	SECOND FLOOR ZONING PLAN - MECHANICAL
M2.01	GROUND FLOOR PLAN - MECHANICAL
M2.02	SECOND FLOOR PLAN - MECHANICAL
M2.03	ROOF PLAN - MECHANICAL
M2.21	GROUND FLOOR PIPING PLAN - MECHANICAL
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M4.01	SECTIONS & ENLARGED PLANS - MECHANICAL
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M6.04	DETAILS - MECHANICAL
M6.05	DETAILS - MECHANICAL
M7.01	CONTROL DIAGRAMS - MECHANICAL
M7.02	CONTROL DIAGRAMS - MECHANICAL
M7.03	CONTROL DIAGRAMS - MECHANICAL

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-121159 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 2/19/2025

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rev	date	issue
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REGISTERED PROFESSIONAL ENGINEER
ISHAM VELASCO MELVIN
No. M34857
Exp: 06/30/26
MECHANICAL
STATE OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD,
HAYWARD, CA 94545

plot date:
project number: 20-296
date: 12/11/2024

SYMBOL LIST AND GENERAL NOTES - MECHANICAL

M0.01

AIR HANDLING UNIT SCHEDULE

SYMBOL	LOCATION	SERVING	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	SUPPLY FAN TOTAL CFM	SUPPLY FAN MIN OSA CFM	SUPPLY FAN ESP (IN H2O)	SUPPLY FAN # OF FANS	SUPPLY FAN BHP	SUPPLY FAN MHP	SUPPLY FAN VFD (Y/N)	HEATING WATER COIL AIRFLOW (CFM)	HEATING WATER COIL SENS CAP (MBH)	HEATING WATER COIL GPM	HEATING WATER COIL EWT (°F)	HEATING WATER COIL LWT (°F)	HEATING WATER COIL EDB (°F)	HEATING WATER COIL LDB (°F)	CHILLED WATER COIL TOT CAP (MBH)	CHILLED WATER COIL SENS CAP (MBH)	CHILLED WATER COIL GPM	CHILLED WATER COIL EWT (°F)	CHILLED WATER COIL LWT (°F)	CHILLED WATER COIL EDB (°F)	CHILLED WATER COIL LDB (°F)	SMOKE DETECTOR	FILTER PRE-(MERV)	FILTER FINAL (MERV)	ELECTRICAL VOLTS	ELECTRICAL PH	ELECTRICAL MCA	ELECTRICAL MOCP	MIN SCCR (KAIC)	EMERGENCY POWER (Y/N)	CONTROLS REF	MOUNTING REF	APPROX DIMS (LxWxH)	MAX WT (LBS)	COMMENTS
AHU-1	ROOF	ADMIN / OFFICES	TRANE	UCCA	3500	1570	1.5	1	3.64	5	Y	1750	70.0	7.00	180	160	30	65	131.0	96.5	20.1	44	57	80	55	Y	8	13	460	3	10.5	15	10	N	1/M7.02	1/M6.04	140"x63"x44"	2200	

NOTES (TYP ALL):
A. PROVIDE FACTORY INSTALLED VFDS IN NEMA 3R ENCLOSURES.
B. PROVIDE FAN WITH RUBBER ISOLATORS.
C. PROVIDE SPRING ROOF CURB. MASON TYPE ISC OR APPROVED EQUAL. ROOF CURB TO MATCH THE SLOPE OF THE ROOF. CONFIRM ROOF SLOPE WITH ARCHITECTURAL DRAWINGS.
D. PROVIDE SEPARATE 120V POWER FOR LIGHTS AND CONVENIENCE OUTLET.
E. PROVIDE SMOKE DETECTOR IN SUPPLY DUCTWORK.

TERMINAL UNIT SCHEDULE

SYMBOL	LOCATION	SERVING	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	INLET SIZE	COOLING AIR FLOW MAX CFM	COOLING AIR FLOW MIN CFM	MIN. INLET SP (IN H2O)	DOWN STREAM SP (IN H2O)	HOT WATER HEATING COIL MAX HTG CFM	HOT WATER HEATING COIL MIN CAP MBH	HOT WATER HEATING COIL GPM	HOT WATER HEATING COIL EAT (°F)	HOT WATER HEATING COIL LAT (°F)	HOT WATER HEATING COIL EWT (°F)	HOT WATER HEATING COIL LWT (°F)	HOT WATER HEATING COIL # ROWS	HOT WATER HEATING COIL FPI	HOT WATER HEATING COIL WPD (FT H2O)	MIN BRANCH PIPE SIZE	SOUND DATA RAD NC	SOUND DATA DISCH NC	EMERGENCY POWER (Y/N)	CONTROLS REF	MOUNTING REF	COMMENTS
VAV-1	LOCKSMITH 211	LOCKSMITH 211	TITUS	DESV	8	630	190	0.75	0.25	315	12.0	1.25	55	90	180	160	2	10	0.50	3/4"	20	27	N	6/M7.02	9/M6.05	
VAV-2	ADMIN 218	ADMIN 218 / LOUNGE 219 / CIRCULATION 228	TITUS	DESV	9	560	215	0.75	0.25	355	13.5	1.5	55	90	180	160	2	10	0.40	3/4"	17	22	N	6/M7.02	9/M6.05	
VAV-3	CIRCULATION 228	STAIR 1 231	TITUS	DESV	10	875	260	0.75	0.25	435	16.6	1.75	55	90	180	160	2	10	0.50	3/4"	20	25	N	6/M7.02	9/M6.05	
VAV-4	LOUNGE 219	DIRECTOR 220	TITUS	DESV	6	290	90	0.75	0.25	145	5.6	0.75	55	90	180	160	2	10	0.20	3/4"	16	23	N	6/M7.02	9/M6.05	
VAV-5	CIRCULATION 228	MANAGER OFFICE 1 214	TITUS	DESV	8	470	140	0.75	0.25	235	9.0	1.0	55	90	180	160	2	10	0.40	3/4"	18	25	N	6/M7.02	9/M6.05	
VAV-6	CIRCULATION 228	SUPERVISOR OFFICE 1 210	TITUS	DESV	5	170	50	0.75	0.25	85	3.3	0.50	55	90	180	160	2	10	0.10	3/4"	12	25	N	6/M7.02	9/M6.05	
VAV-7	CIRCULATION 228	SUPERVISOR OFFICE 3/4 206	TITUS	DESV	5	210	60	0.75	0.25	110	4.2	0.50	55	90	180	160	2	10	0.10	3/4"	16	28	N	6/M7.02	9/M6.05	
VAV-8	CIRCULATION 228	SUPERVISOR OFFICE 2 204	TITUS	DESV	5	170	50	0.75	0.25	85	3.3	0.50	55	90	180	160	2	10	0.10	3/4"	12	25	N	6/M7.02	9/M6.05	
VAV-9	CIRCULATION 228	SHARED LEAD OFFICE 201	TITUS	DESV	6	260	75	0.75	0.25	130	5.0	0.50	55	90	180	160	2	10	0.20	3/4"	14	22	N	6/M7.02	9/M6.05	
VAV-10	CIRCULATION 228	LOUNGE 202	TITUS	DESV	9	500	150	0.75	0.25	250	9.5	1.0	55	90	180	160	2	10	0.30	3/4"	13	19	N	6/M7.02	9/M6.05	

NOTES (TYP ALL):
A. PROVIDE WITH 120V POWER TO CONTROL TRANSFORMER BY DIV 26. 24V DDC CONTROL WIRING BY CONTROLS CONTRACTOR.

PACKAGED MAKE-UP AIR UNIT SCHEDULE

SYMBOL	LOCATION	AREA SERVED	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	SUPPLY FAN TOTAL CFM	SUPPLY FAN ESP (IN H2O)	SUPPLY FAN BHP	SUPPLY FAN HP	HOT WATER HEATING COIL MIN CAP (MBH)	HOT WATER HEATING COIL WATER FLOW (GPM)	HOT WATER HEATING COIL EWT (°F)	HOT WATER HEATING COIL LWT (°F)	HOT WATER HEATING COIL EDB (°F)	HOT WATER HEATING COIL LDB (°F)	FILTER PRE-(MERV)	FILTER FINAL (MERV)	ELECTRICAL VOLTS	ELECTRICAL PH	ELECTRICAL MCA	ELECTRICAL MOCP	MIN. SCCR (KAIC)	EMERGENCY POWER (Y/N)	CONTROLS REF	MOUNTING REF	APPROX DIMENSIONS (LxWxH)	MAX WT (LBS)	COMMENTS
MAU-1	ROOF	CARPENTRY SHOP 108	GREENHECK	MSX	2750	0.5	1.52	2	220.0	22.50	180	160	26	90	8	13	208	3	9.8	15	10	N	2/M7.02	9/M6.03	96"x36"X40"	1000	
MAU-2	ROOF	PAINT BOOTH	GREENHECK	MSX	7220	0.5	2.59	3	350.0	35.00	180	160	26	70	8	13	208	3	13.7	20	10	N	2/M7.02	9/M6.03	114"x52"x48"	1500	

NOTES (TYP ALL):
A. PROVIDE FACTORY INSTALLED VFDS IN NEMA 3R ENCLOSURES.
B. PROVIDE FAN WITH RUBBER ISOLATORS.
C. PROVIDE SPRING ROOF CURB. MASON TYPE ISC OR APPROVED EQUAL.
D. PROVIDE SEPARATE 120V POWER FOR LIGHTS AND CONVENIENCE OUTLET.
E. PROVIDE SMOKE DETECTOR IN SUPPLY DUCTWORK.

DUST COLLECTION EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION	ELECTRICAL	BASIS OF DESIGN
DC-1	DUST COLLECTOR, DOUBLE HOPPER WITH DUAL 55 GALLON SEALED DRUM COLLECTION, SHAKER CONFIGURATION	FAN MOTOR	STERNVENT DKPDS 48010-2
	PROVIDE VFD AUTOMATIC AIRFLOW CONTROLLER, ANTI STATIC BAG FILTERS, NO RETURN VALVE (NRV), TOP MOUNTED FAN WITH ACCESSIBLE FAN CHAMBER, TOP DISCHARGE FROM FAN CHAMBER, DISCHARGE SOUND ATTENUATOR, SPARK DETECTION AND EXTINGUISHING SYSTEM, FLAMELESS EXPLOSION VENT, AND REMOTE ON/OFF BUTTONS.	460V / 3 PHASE	10 HP FAN 1/3 HP SHAKER
	APPROXIMATE DIMS: 78" WIDE x 33" DEEP x 147" TALL	SHAKER MOTOR 460V / 3 PHASE	MOUNTING DETAIL: 7/M6.04
	FILTERS: 480 FT SQ, 8 OZ WOVEN POLYESTER	(NOTE 2, & 3)	CONTROLS DETAIL: 4/M7.03
	FAN: DIRECT DRIVE BACKWARD INCLINED SWSI CLASS 3, AMCA C SPARK RESISTANT CONSTRUCTION 2,700 CFM @ 10.0" WG EXTERNAL STATIC PRESSURE, 15" WG TOTAL STATIC PRESSURE		
EV-1	FLAMELESS EXPLOSION VENT: VIGILEX SAFETY PROTECTION - VQ SERIES		BOSS PRODUCTS - VIGIFLAM FLAMELESS EXPLOSION VENTS
NRV-1	NO RETURN VALVE: 10" FLANGED CONNECTION WITH DUST LEVEL SENSOR.	NOTE 1	BOSS PRODUCTS - VIGILEX VIGIFLAP
	SPARK DETECTION SYSTEM AND EXTINGUISHING ASSEMBLY KIT: CONTROL PANEL, SPARK DETECTORS AND MOUNTING KITS, WATER FILTER, PRESSURE SWITCH, SOLENOID VALVE, BALL VALVE WITH MICROSWITCH AND DISTRIBUTIONS.	NOTE 1	BOSS PRODUCTS - RAPTOR SPARK SERIES
DS-1	DISCHARGE SILENCER: HEAVY DUTY SILENCER WITH PERFORATED METAL LINER, PRESSURE DROP OF 0.XXX @ 5,250 CFM. INSERTION LOSS - 2dB @ 63HZ, 5dB @ 125HZ, 8dB @ 250 HZ, 13dB @ 500 HZ INSERTION LOSS - 15dB @ 1000 HZ, 13dB @ 2000 HZ, 9dB @ 4000 HZ, 8dB @ 8000 HZ		
	NOTES: 1) COORDINATE WITH DIV 26 CONTRACTOR TO PROVIDE 120V POWER FOR OPRATION AND MONITORING BY SPARK DETECTION AND PROTECTION COMPONENTS WITHIN THE CONTROL PANEL. 2) COORDINATE WITH DIV 26 CONTRACTOR TO PROVIDE POWER INDICATED FOR BOTH THE FAN AND DUST COLLECTOR CONTROL PANEL. 3) SINGLE POINT OF CONNECTION FOR DUST COLLECTION FAN AND SHAKER MOTOR.		

HYDRONIC UNIT HEATER SCHEDULE

SYMBOL	SERVING	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	FAN MHP	HOT WATER HEATING COIL MIN CAP (MBH)	HOT WATER HEATING COIL WATER FLOW (GPM)	HOT WATER HEATING COIL WATER EWT (°F)	HOT WATER HEATING COIL WATER LWT (°F)	HOT WATER HEATING COIL AIR EAT (°F)	HOT WATER HEATING COIL AIR LAT (°F)	HOT WATER HEATING COIL HW MIN BRANCH PIPE SIZE	ELECTRICAL VOLTS	ELECTRICAL PH	ELECTRICAL MCA	ELECTRICAL MOCP	EMERGENCY POWER (Y/N)	CONTROLS REF	MOUNTING REF	MAX WT (LBS)	COMMENTS
UH-1	WAREHOUSE 106	TRANE	UHP	0.025	22.0	2.25	180	160	55	90	3/4"	120	1	1.6	2.8	N	7/M7.02	2/M6.05	50	
UH-2	WAREHOUSE 106	TRANE	UHP	0.025	22.0	2.25	180	160	55	90	3/4"	120	1	1.6	2.8	N	7/M7.02	2/M6.05	50	
UH-3	CUSTODIAL 104	TRANE	UHP	0.025	19.0	2.00	180	160	55	90	3/4"	120	1	1.6	2.8	N	7/M7.02	2/M6.05	50	
UH-4	M&O STORAGE 1 112	TRANE	UHP	0.025	8.0	1.00	180	160	55	90	3/4"	120	1	1.6	2.8	N	7/M7.02	2/M6.05	50	
UH-5	M&O STORAGE 1 112	TRANE	UHP	0.025	8.0	1.00	180	160	55	90	3/4"	120	1	1.6	2.8	N	7/M7.02	2/M6.05	50	
UH-6	M&O STORAGE 2 111	TRANE	UHP	0.025	6.0	0.75	180	160	55	90	3/4"	120	1	1.6	2.8	N	7/M7.02	2/M6.05	50	
UH-7	ELEC SHOP 109	TRANE	UHP	0.025	7.0	0.75	180	160	55	90	3/4"	120	1	1.6	2.8	N	7/M7.02	2/M6.05	50	
UH-8	HVAC SHOP 110	TRANE	UHP	0.025	7.0	0.75	180	160	55	90	3/4"	120	1	1.6	2.8	N	7/M7.02	2/M6.05	50	
UH-9	GROUNDS SHOP 115	TRANE	UHP	0.025	12.0	1.25	180	160	55	90	3/4"	120	1	1.6	2.8	N	7/M7.02	2/M6.05	50	
UH-10	VEHICLE MAINT SHOP 119	TRANE	UHS	0.167	70.0	7.00	180	160	50	90	1"	120	1	2.9	5.2	N	7/M7.02	2/M6.05	50	
UH-11	VEHICLE MAINT SHOP 119	TRANE	UHS	0.167	70.0	7.00	180	160	50	90	1"	120	1	2.9	5.2	N	7/M7.02	2/M6.05	50	
UH-12	M&O STORAGE 3 221	TRANE	UHP	0.025	10.0	1.00	180	160	55	90	3/4"	120	1	1.6	2.8	N	7/M7.02	2/M6.05	50	

DIFFUSER, REGISTER AND GRILLE SCHEDULE

SYMBOL	TYPE	FACE	FRAME	FINISH	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	COMMENTS
CD-1	CEILING DIFFUSER	PERFORATED	LAY-IN	WHITE	TITUS	PCS	<varies>
CEG-1	CEILING EXHAUST GRILLE	PERFORATED	LAY-IN	WHITE	TITUS	PAR	2
CEG-2	CEILING EXHUAST GRILLE	PERFORATED	SURFACE	WHITE	TITUS	PAR-AA	
CRG-1	CEILING RETURN GRILLE	PERFORATED	LAY-IN	WHITE	TITUS	PAR	<varies>
SD-1	LINEAR SLOT DIFFUSER	1 INCH SLOTS	LAY-IN	WHITE	TITUS	ML-39	1
EG-1	SIDEWALL EXHAUST GRILLE	FIXED BAR 35 DEG. DEFL	1-1/4" BORDER	WHITE	TITUS	350RL	
EG-2	SIDEWALL EXHAUST GRILLE	FIXED BAR 35 DEG. DEFL, W/ INTEGRAL FILTER	1-1/4" BORDER	WHITE	TITUS		3
RG-1	SIDEWALL RETURN GRILLE	FIXED BAR 35 DEG. DEFL	1-1/4" BORDER	WHITE	TITUS	350RL	
SG-1	SIDEWALL SUPPLY GRILLE	ADJ. DOUBLE DEFL	1-1/4" BORDER	WHITE	TITUS	300RL	

NOTES (TYP ALL):
A. NC OF DRGs TO BE NC30 OR LESS, UNLESS NOTED OTHERWISE.
B. REFER TO DRAWINGS FOR NECK SIZES AND AIRFLOW INFORMATON.
C. CONFIRM FINISH COLOR WITH ARCHITECT PRIOR TO ORDERING.
D. COORDINATE EXACT LOCATION WITH LIGHTS, SPRINKLER HEADS, AND ARCHITECTURAL RCP.

COMMENTS:
1. REFER TO DRAWINGS FOR NUMBER OF SLOTS AND LENGTH OF LINEAR SLOT DIFFUSER.
2. PROVIDE FRAME MOUNTING ACCESSORIES FOR GWB CEILING WHERE REQUIRED.
3. PROVIDE WITH 30% DISPOSABLE FILTER.

ENERGY RECOVERY UNIT SCHEDULE

SYMBOL	LOCATION	SERVING	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	SUPPLY FAN TYPE	SUPPLY FAN TOTAL CFM	SUPPLY FAN ESP (IN H2O)	SUPPLY FAN # OF FANS	SUPPLY FAN HP	SUPPLY FAN VFD (Y/N)	SUPPLY FAN SMOKE DETECTOR (Y/N)	EXHAUST FAN TYPE	EXHAUST FAN TOTAL CFM	EXHAUST FAN ESP (IN H2O)	EXHAUST FAN # OF FANS	EXHAUST FAN HP	EXHAUST FAN VFD (Y/N)	EXHAUST FAN SMOKE DETECTOR (Y/N)	SENSIBLE HEAT RECOVERY TYPE	SENSIBLE HEAT RECOVERY WINTER SA EAT (°F)	SENSIBLE HEAT RECOVERY WINTER SA LAT (°F)	SENSIBLE HEAT RECOVERY WINTER EA EAT (°F)	SENSIBLE HEAT RECOVERY WINTER SENSIBLE EFFICIENCY	SENSIBLE HEAT RECOVERY SUMMER SA EAT (°F)	SENSIBLE HEAT RECOVERY SUMMER SA LAT (°F)	SENSIBLE HEAT RECOVERY SUMMER EA EAT (°F)	SENSIBLE HEAT RECOVERY SUMMER SENSIBLE EFFICIENCY	FILTER OA INLET EFF MERV	FILTER EA INLET EFF MERV	ELECTRICAL VOLTS	ELECTRICAL PH	ELECTRICAL MCA	ELECTRICAL MOCP	EMERGENCY POWER	CONTROLS REF	MOUNTING REF	APPROX. DIM (LxWxH)	MAX WT (LBS)	COMMENTS
ERV-1	LOW ROOF	WAREHOUSE 106	GREENHECK	ECV-30	CENTRIFUGAL	1710	0.5	2	0.5	Y	N	CENTRIFUGAL	1710	0.5	2	0.5	Y	N	CORE	34	55	70	62	92	80	75	65	13	8	208	3	23.7	25	N	4/M7.02	4/M6.04	60"x62"x48"	1050	2, 4, 5
ERV-2	LOW ROOF	CUSTODIAL 104	GREENHECK	ECV-20	CENTRIFUGAL	1310	0.5	1	0.75	Y	N	CENTRIFUGAL	1430	0.5	1	0.75	Y	N	CORE	34	56	70	65	92	80	75	68	13	8	208	3	20.6	25	N	4/M7.02	4/M6.04	60"x44"x48"	800	2, 4, 5
ERV-3	M&O STORAGE 1 112	M&O STORAGE 1 112	MITSUBISHI ELECTRIC	LGH-F940RVX2-E	CENTRIFUGAL	745	0.75	1	0	N	N	CENTRIFUGAL	745	0.75	1	0	N	N	CORE	34	61	70	71	92	83	80	71	14	7	208	1	10.1	15	N	3/M7.02	2/M6.04	46"x40"x32"	230	1, 3
ERV-4	M&O STORAGE 1 112	M&O STORAGE 1 112	MITSUBISHI ELECTRIC	LGH-F940RVX2-E	CENTRIFUGAL	745	0.75	1	0	N	N	CENTRIFUGAL	745	0.75	1	0	N	N	CORE	34	61	70	71	92	83	80	71	14	7	208	1	10.1	15	N	3/M7.02	2/M6.04	46"x40"x32"	230	1, 3
ERV-5	M&O STORAGE 2 111	M&O STORAGE 2 111	MITSUBISHI ELECTRIC	LGH-F940RVX2-E	CENTRIFUGAL	880	0.9	1	0	N	N	CENTRIFUGAL	880	0.9	1	0	N	N	CORE	34	60	70	69	92	84	80	69	14	7	208	1	10.1	15	N	3/M7.02	2/M6.04	46"x40"x32"	230	1, 3
ERV-6	ELEC SHOP 109	ELEC SHOP 109	MITSUBISHI ELECTRIC	LGH-F380RVX2-E	CENTRIFUGAL	310	0.75	1	0	N	N	CENTRIFUGAL	310	0.75	1	0	N	N	CORE	34	60	70	65	92	84	80	65	14	7	208	1	3.9	15	N	3/M7.02	2/M6.04	36"x30"x16"	100	1, 3
ERV-7	HVAC SHOP 110	HVAC SHOP 110	MITSUBISHI ELECTRIC	LGH-F470RVX2-E	CENTRIFUGAL	400	0.75	1	0	N	N	CENTRIFUGAL	400	0.75	1	0	N	N	CORE	34	61	70	71	92	83	80	71	14	7	208	1	5.1	15	N	3/M7.02	2/M6.04	46"x40"x16"	125	1, 3
ERV-8	GROUNDS SHOP 115	GROUNDS SHOP 115	MITSUBISHI ELECTRIC	LGH-R1200RVX2-E	CENTRIFUGAL	930	0.5	1	0	N	N	CENTRIFUGAL	930	0.5	1	0	N	N	CORE	34	62	70	73	92	82	80	73	14	7	208	1	10.4	15	N	3/M7.02	2/M6.04	46"x48"x32"	265	1, 3
ERV-9	VEHICLE MAINT SHOP 119	VEHICLE MAINT SHOP 119	GREENHECK	ECV-40	CENTRIFUGAL	2940	0.5	2	0.75	Y	Y	CENTRIFUGAL	2940	0.5	2	0.75	Y	N	CORE	34	51	70	57	92	81	75	60	13	8	208	3	27.0	30	N	4/M7.02	13/M6.05	60"x81"x48"	1000	2, 4
ERV-10	VEHICLE MAINT SHOP 119	VEHICLE MAINT SHOP 119	GREENHECK	ECV-40	CENTRIFUGAL	2940	0.5	2	0.75	Y	Y	CENTRIFUGAL	2940	0.5	2	0.75	Y	N	CORE	34	51	70	57	92	81	75	60	13	8	208	3	27.0	30	N	4/M7.02	13/M6.05	60"x81"x48"	1000	2, 4
ERV-11	M&O STORAGE 3 221	M&O STORAGE 3 221	MITSUBISHI ELECTRIC	LGH-F600RVX2-E	CENTRIFUGAL	560	0.85	1	0	N	N	CENTRIFUGAL	560	0.85	1	0	N	N	CORE	34	60	70	67	92	84	80	67	14	7	208	1	5.1	15	N	3/M7.02	2/M6.04	46"x40"x16"	125	1, 3
ERV-12	ROOF	2ND LEVEL MEETING/LOUNGE	GREENHECK	ECV-20	CENTRIFUGAL	1160	0.75	1	0.75	Y	N	CENTRIFUGAL	1160	0.75	1	0.5	Y	N	CORE	34	55	70	60	92	81	75	72	13	8	208	3	19.8	20	N	4/M7.02	4/M6.04	60"x44"x48"	800	2, 4, 5

NOTES (TYP ALL):
A. WEIGHT SHOWN IS UNIT ONLY AND DOES NOT INCLUDE ANY EQUIMENT SUPPORTS/ROOF CURBS.
B. SEE SPECIFICATIONS FOR ADDITIONAL EQUIPMENT REQUIREMENTS/ACCESSOIRES.

COMMENTS:
1. PROVIDE THE FOLLOWING ACCESSORIES FROM THE MANUFACTURER:
   A. MERV 14 FILTERS FOR OUTDOOR AIR.
   B. EXTERNAL BYPASS DAMPER CONTROL.
   C. SIGNAL OUTPUT TERMINAL FOR CONTROL FROM BAS AND INTEGRATION WITH ELECTRIC HEATER.
2. PROVIDE THE FOLLOWING ACCESSORIES FROM THE MANUFACTURER:
   A. BYPASS DAMPER WITH DRY BULB TEMPERATURE CONTROL. PROVIDE WITH EXTERNAL BYPASS DAMPER OVERRIDE.
   B. DIRTY FILTER SENSORS (SUPPLY & EXHAUST)
   C. 120V SERVICE OUTLET (SHIPPED LOOSE)
   D. ELECTRIC PRE-HEATER/FROST CONTROL
   E. VFD.
3. FROST PROTECTION FOR ERV CORE PROVIDED BY EXTERANL ELECTRIC DUCT HEATER.
4. FROST PROTECTION FOR ERV CORE PROVIDED BY INTERAL ELECTRIC DUCT HEATER FROM FACTORY.
5. PROVIDE ROOF CURB FROM MANUFACTURER. WHERE ROOF IS SLOPED PROVIDE ROOF CURB MATCHING SLOPE OF ROOF. SEE ARCH DRAWINGS FOR ROOF INFORMATION.

ELECTRIC DUCT HEATER SCHEDULE

SYMBOL	AREA SERVING	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	DUCT SIZE AIR FLOW (CFM)	DUCT SIZE WIDTH (IN)	DUCT SIZE HEIGHT (IN)	HEATING DATA HEAT CAP (kW)	HEATING DATA EAT (°F)	HEATING DATA LAT (°F)	HEATING DATA HEATING STAGES	ELECTRICAL VOLTS	ELECTRICAL PH	MIN SCCR (KAIC)	EMERGENCY POWER (Y/N)	CONTROLS REF	COMMENTS
EDH-3	ERV-3	GREENHECK	IDHB	745	14	14	2	26	34	1	208	1	10	N	4/M7.02	
EDH-4	ERV-4	GREENHECK	IDHB	745	14	14	2	26	34	1	208	1	10	N	4/M7.02	
EDH-5	ERV-5	GREENHECK	IDHB	880	14	14	2.5	26	34	1	208	1	10	N	4/M7.02	
EDH-6	ERV-6	GREENHECK	IDHB	310	12	12	1	26	34	1	208	1	10	N	4/M7.02	
EDH-7	ERV-7	GREENHECK	IDHB	400	12	12	1	26	34	1	208	1	10	N	4/M7.02	
EDH-8	ERV-8	GREENHECK	IDHB	930	20	12	2.5	26	34	1	208	1	10	N	4/M7.02	
EDH-11	ERV-11	GREENHECK	IDHB	560	12	12	1.5	26	34	1	208	1	10	N	4/M7.02	

NOTES (TYP ALL):
A. MAINTAIN 6'-0" SEPARATION BETWEEN DISCHARGE OF ELECTRIC DUCT HEATER AND INLET OF ASSOCIATED ERV.

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rev	date	issue
2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

REGISTERED PROFESSIONAL ENGINEER SHARON M. VELASCO ALLEN No. M34857 Exp: 06/30/26 MECHANICAL STATE OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD,
HAYWARD, CA 94545

plot date:
project number: 20-296
date: 12/11/2024

SCHEDULES - MECHANICAL

M0.02

CONDENSING UNIT SCHEDULE

SYMBOL	LOCATION	AREA SERVED	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	RELATED FAN	AIR SOURCE NOM TONS	AIR SOURCE QTY OF COMPRESSORS	AIR SOURCE COMP TYPE	AIR SOURCE CAP (MBH)	AIR SOURCE AMB TEMP (°F)	AIR SOURCE SEER2	ELECTRICAL VOLTS	ELECTRICAL PH	ELECTRICAL MCA	ELECTRICAL MOCP	EMERGENCY POWER (Y/N)	CONTROLS REF	MOUNTING REF	APPROX DIMS (WxDxH)	MAX WT (LBS)	COMMENTS
CU-1	LOW ROOF	BDF	MITSUBISHI ELEC	PKA-A12LA	DSS-1	1.0	1	1	12.0	92	21.3	208	1	11.0	15	Y	3/M7.03	4/M6.04	31"x22"x12"	125	
CU-2	LOW ROOF	IDF	MITSUBISHI ELEC	PUZ-A30NHA7	DSS-2	2.5	1	1	30.0	92	20.0	208	1	19.5	25	Y	3/M7.03	4/M6.04	24"x14"x38"	175	

NOTES (TYP ALL):
A. OUTDOOR UNIT PROVIDES POWER FOR ASSOCIATED INDOOR UNIT. INSTALL WIRING PER MANUFACTURER RECOMMENDATIONS. COORINATE INSTALLATION WITH DIV 26.
B. SIZE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS.

DUCTLESS SPLIT SYSTEM FAN COIL SCHEDULE (DX)

SYMBOL	LOCATION	SERVING	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	NOM TONS	RELATED CU	AIR FLOW (CFM)	DX COOLING COIL TOTAL CAP (MBH)	DX COOLING COIL SENS CAP (MBH)	DX COOLING COIL EDB (°F)	DX COOLING COIL EWB (°F)	DX COOLING COIL LDB (°F)	DX COOLING COIL LWB (°F)	ELECTRICAL VOLTS	ELECTRICAL PH	ELECTRICAL MCA	ELECTRICAL MOCP	CONTROLS REF	MOUNTING REF	APPROX DIMS (WxHxD)	MAX WT (LBS)	COMMENTS
DSS-1	SECURE WH	SECURE WH	MITSUBISHI ELEC	FTXS12LVJU	1.0	CU-1	0	12.0	9.3	74	62	55	45	120	1	0.0	15	3/M7.03	3/M6.04	32"x12"x9"	30	
DSS-2	IDF	IDF	MITSUBISHI ELEC	FTXS30LVJU	2.5	CU-2	0	30.0	19.9	74	62	55	45	208	1	0.0	15	3/M7.03	3/M6.04	48"x14"x10"	50	

NOTES (TYP ALL):
A. REFRIGERANT: R-410A.
B. PROVIDE WITH EXTERNAL CONDENSATE PUMP, GOBI II. CONTRACTS ON CONDENSATE PUMP WIRED TO SHUT DOWN IF WATER BACKUP IS DETECTED.
C. SIZE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS.
D. FAN COIL UNIT TO POWERED BY ASSOCIATED OUTDOOR CONDENSING UNIT. INSTALL WIRING PER MANUFACTURER RECOMMENDATIONS. COORDIANTE INSTALL WITH DIV 26

OUTDOOR HEAT PUMP SCHEDULE

SYMBOL	LOCATION	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	RELATED FAN	AIR SOURCE HEAT PUMP CONDENSER NOM TONS	AIR SOURCE HEAT PUMP CONDENSER QYT OF COMPRESSORS	COOLING CAP (MBH)	COOLING AMBIENT DB (°F)	COOLING SEER2	HEATING CAP (MBH)	HEATING AMBIENT DB (°F)	HEATING HSPF2	ELECTRICAL VOLTS	ELECTRICAL PH	ELECTRICAL MCA	ELECTRICAL MOCP	EMERGENCY POWER (Y/N)	CONTROLS REF	MOUNTIN G REF	APPROX DIMS (WxHxD)	MAX WT (LBS)	COMMENTS
HP-1	LOW ROOF	MITSUBISHI ELEC	SUZ-KA09NA2	FC-1	0.75	1	9.0	92	19.9	12.0	26	11.1	208	1	9.0	15	N	3/M7.03	4/M6.04	34"x22"x12"	100	1
HP-2	LOW ROOF	MITSUBISHI ELEC	SUZ-KA09NA2	FC-2	0.75	1	9.0	92	19.9	12.0	26	11.1	208	1	9.0	15	N	3/M7.03	4/M6.04	34"x22"x12"	100	1
HP-3	MECH WELL	MITSUBISHI ELEC	PUY-A42NKA7	FC-3	3.5	1	42.0	92	18.6	0.0	26	-	208	1	25.0	40	Y	3/M7.03	7/M6.03	42"x53"x15"	250	1
HP-4	MECH WELL	MITSUBISHI ELEC	SUZ-KA09NA2	FC-4	0.75	1	9.0	92	19.9	12.0	26	11.1	208	1	9.0	15	N	3/M7.03	7/M6.03	34"x22"x12"	100	1
HP-5	MECH WELL	MITSUBISHI ELEC	PUY-A18NKA7	FC-5	1.5	1	18.0	92	19.8	0.0	26	-	208	1	11.0	30	Y	3/M7.03	7/M6.03	34"x25"x12"	125	1
HP-6	LOW ROOF	MITSUBISHI ELEC	PUZ-A24NHA7	FC-6	2.0	1	24.0	92	21.2	26.0	26	10.8	208	1	19.0	30	N	3/M7.03	4/M6.04	38"x38"x15"	200	1
HP-7	MECH WELL	MITSUBISHI ELEC	SUZ-KA15NA2	FC-7	1.25	1	15.0	92	19.6	18.0	26	10.8	208	1	10.0	20	N	3/M7.03	7/M6.03	32"x22"x12"	100	1
HP-8	MECH WELL	MITSUBISHI ELEC	SUZ-KA15NA2	FC-8	1.25	1	15.0	92	19.6	18.0	26	10.8	208	1	10.0	20	N	3/M7.03	7/M6.03	32"x22"x12"	100	1
HP-9	LOW ROOF	MITSUBISHI ELEC	PUZ-A36NKA7	FC-9	3.0	1	36.0	92	20.0	38.0	26	9.0	208	1	25.0	40	N	3/M7.03	4/M6.04	42"x53"x15"	250	1
HP-10	LOW ROOF	MITSUBISHI ELEC	PUZ-A36NKA7	FC-10	3.0	1	36.0	92	20.0	38.0	26	9.0	208	1	25.0	40	N	3/M7.03	4/M6.04	42"x53"x15"	250	1

NOTES (TYP ALL):
A. SIZE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS.
B. PROVIDE WITH VARIABLE SPEED COMPRESSORS.
C. PROVIDE JACKETING ON ALL EXTERIOR REFRIGERANT PIPING.

COMMENTS:
1. OUTDOOR UNIT PROVIDES POWER FOR ASSOCIATED INDOOR UNIT. INSTALL WIRING PER MANUFACTURER RECOMMENDATIONS. COORINATE INSTALLATION WITH DIV 26.

INDOOR HEAT PUMP FAN COIL UNIT SCHEDULE

SYMBOL	LOCATION	SERVING	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	BASIS OF DESIGN TYPE	NOM TONS	RELATED CU	AIR FLOW (CFM)	FAN ESP (IN H2O)	DX COOLING TOTAL CAP (MBH)	DX COOLING SENS CAP (MBH)	DX COOLING EDB (°F)	DX COOLING EWB (°F)	DX COOLING LDB (°F)	DX COOLING LWB (°F)	DX HEATING TOTAL CAP (MBH)	DX HEATING LDB (°F)	EMERGENCY POWER (Y/N)	CONTROLS REF	MOUNTING REF	APPROX DIMS (WxDxH)	MAX WT (LBS)	COMMENTS
FC-1	CUSTODIAL 104	CUSTODIAL KEY 105	MITSUBISHI ELEC	PEAD-A09AA9	DUCTED	0.75	HP-1	350	0.6	9.0	8.5	80	63	55	54	12.0	90	N	3/M7.03	5/M6.04	36"x29"x10"	75	1,3
FC-2	WAREHOUSE 106	SECURE WH 114	MITSUBISHI ELEC	PEAD-A09AA9	DUCTED	0.75	HP-2	350	0.6	9.0	8.5	76	62	55	54	12.0	90	N	3/M7.03	5/M6.04	36"x29"x10"	75	1,3
FC-3	ELEC ROOM 101	ELEC ROOM 101	MITSUBISHI ELEC	PEAD-A42AA9	DUCTED	3.5	HP-3	1480	0.6	42.0	35.0	80	63	55	54	-	0	Y	3/M7.03	5/M6.04	56"x29"x10"	125	1
FC-4	VEHICLE MAINT SHOP 119	SECURE SHOP 121	MITSUBISHI ELEC	PEAD-A09AA9	DUCTED	0.75	HP-4	350	0.6	9.0	8.5	76	62	55	54	12.0	90	N	3/M7.03	5/M6.04	36"x29"x10"	75	1,3
FC-5	CIRCULATION 118	ELEV MACH ROOM 117	MITSUBISHI ELEC	PEAD-A18AA9	DUCTED	1.5	HP-5	600	0.6	18.0	15.0	80	63	55	54	-	0	Y	3/M7.03	5/M6.04	36"x29"x10"	75	1
FC-6	CIRCULATION 118	CIRCULATION 118	MITSUBISHI ELEC	PCA-A24KA7	1-WAY CEILING SUSPENDED	2.0	HP-6	670	0	24.0	18.0	74	62	55	54	28.0	90	N	3/M7.03	2/M6.04	51"x27"x10"	100	1,5
FC-7	MTG RM 1 215	MTG RM 1 215	MITSUBISHI ELEC	PEAD-A15AA7	DUCTED	1.25	HP-7	600	0.6	15.0	13.5	74	62	55	54	18.0	90	N	3/M7.03	5/M6.04	36"x29"x10"	75	1,3
FC-8	MTG RM 2 205	MTG RM 2 205	MITSUBISHI ELEC	PEAD-A15AA7	DUCTED	1.25	HP-8	600	0.6	15.0	13.5	74	62	55	54	18.0	90	N	3/M7.03	5/M6.04	36"x29"x10"	75	1,3
FC-9	LOUNGE 203	LOUNGE 203	MITSUBISHI ELEC	PEAD-A36AA9	DUCTED	3.0	HP-9	1200	0.6	36.0	25.0	74	62	55	54	38.0	90	N	3/M7.03	5/M6.04	56"x29"x10"	100	1,4
FC-10	LOUNGE 203	LOUNGE 203	MITSUBISHI ELEC	PEAD-A36AA9	DUCTED	3.0	HP-10	1200	0.6	36.0	25.0	74	62	55	54	38.0	90	N	3/M7.03	5/M6.04	56"x29"x10"	100	1,4

NOTES (TYP ALL):
A. SEE DRAWINGS FOR ASSOCIATED OUTSIDE AIRFLOW.
B. REFRIGERANT: R-410A
C. SIZE REFRIGERANT PIPING PER MANUFACTURER RECOMMENDATIONS. SEE 23 21 13 HVAC PIPING FOR ADDITIONAL INFORMATION.
D. PROVIDE UNITS WITH INTERNAL CONDENSATE PUMP FROM MANUFACTURER. PROVIDE EXTERNAL CONDENSATE PUMP IF INTERNAL CONDENSATE PUMP UNAVAILABLE FROM MANUFACTURER.

COMMENTS:
1. INDOOR UNIT POWERED BY CORRESPONDING OUTDOOR HEAT PUMP UNIT. INSTALL WIRING BETWEEN INDOOR AND OUTDOOR UNIT PER MANUFACTURER RECOMMENDATIONS. COORDINATE INSTALL WITH DIV 26.
2. COORDINATE FINAL UNIT CAPACITY AND AIR FLOW WITH APPROVED ELEVATOR EQUIPMENT SUBMITTAL.
3. MANUFACTURER FILTER BOX FBM2-2-A TO BE INSTALLED WITH UNIT WITH 2" MERV-13 FILTERS.
4. MANUFACTURER FILTER BOX FBM2-4-A TO BE INSTALLED WITH UNIT WITH 2" MERV-13 FILTERS.
5. INTERNAL MERV-8 FILTER INCLUDED IN UNIT.

FAN SCHEDULE

SYMBOL	LOCATION	SERVING	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	TYPE	DRIVE	AIR FLOW (CFM)	ESP (IN H20)	ELECTRICAL VOLTS	ELECTRICAL PH	ELECTRICAL BHP	ELECTRICAL MHP	EMERGENCY POWER (Y/N)	CONTROLS REF	MOUNTING REF	APPROX DIMS (WxHxD)	MAX WT (LBS)	COMMENTS
EF-1	LOW ROOF	CARPENTRY SHOP 108	GREENHECK	CUE-099	UPBLAST	DIRECT	760	0.5	115	1	0.24	0.5	N	8/M7.02	5/M6.03	29"x29"x29"	80	1
EF-2	ROOF	MEN'S / WOMEN'S	GREENHECK	CUE-120-VG	UPBLAST	DIRECT	1570	0.5	115	1	0.3	0.5	N	8/M7.02	5/M6.03	29"x29"x29"	100	
EF-3	ROOF	LOCKSMITH 211	GREENHECK	G-60-VG	DOWNBLAST	DIRECT	150	0.33	115	1	0.02	0.06	N	8/M7.02	5/M6.03	25"x29"x25"	80	
EF-4	ROOF	VEHICLE EXHAUST REELS	GREENHECK	SFB-10	UTILITY FAN	DIRECT	1200	1.5	115	1	0.48	0.75	N	1/M7.03	6/M6.03	29"x29"x29"	150	2

NOTES (TYP ALL):
A. PROVIDE FACTORY SUPPLIED ROOF CURB. COORDINATE SLOPE REQUIRED.

COMMENTS:
1. EXPLOSION PROOF CONSTRUCTION
2. RATED FOR HIGH TEMPERATURE USAGE (VEHICLE EXHAUST)

GRAVITY RELIEF AND GRAVITY INTAKE SCHEDULE

SYMBOL	LOCATION	SERVING	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	AIR FLOW (CFM)	TSP (IN H20)	THROAT VELOCITY (FT/MIN)	THROAT AREA (SQ FT)	APPROX DIMS (LxWxH)	EMERGENCY POWER (Y/N)	CONTROLS REF	MOUNTING REF	MAX WT (LBS)	COMMENTS
GI-1	ROOF	VEHICLE MAINT	GREENHECK	FGI-24x24	2920	0.05	441	6.6	63x52x31	N	4/M7.02	10/M6.04	150	1
GI-2	ROOF	VEHICLE MAINT	GREENHECK	FGI-24x24	2920	0.05	441	6.6	63x52x31	N	4/M7.02	10/M6.04	150	1
GR-1	ROOF	VEHICLE MAINT	GREENHECK	FGI-24x24	2920	0.05	441	6.6	63x52x31	N	4/M7.02	10/M6.04	150	1
GR-2	ROOF	VEHICLE MAINT	GREENHECK	FGI-24x24	2920	0.05	441	6.6	63x52x31	N	4/M7.02	10/M6.04	150	1

NOTES (TYP ALL):
1. PROVIDE WITH BACKDRAFT DAMPER AND MOTORIZED ISOLATION DAMPER.

SPLIT SYSTEM REFRIGERANT CHARGE CALCULATION

FAN COIL UNIT	ROOM(S) ASSOCIATED WITH FAN COIL UNIT	NET OCCUPIABLE FLOOR AREA (FT²)	CEILING HEIGHT (FT)	CRITICAL ZONE VOLUME (FT³)	REFRIGERANT TYPE	MAXIMUM REFRIGERANT CONCENTRATION (LBS/1,000FT³)	MAXIMUM REFRIGERANT CHARGE (LBS)	SYSTEM REFRIGERANT CHARGE (LBS)
DSS-1	BDF 111.2	180	14.5	2,610	R-410A	26.0	68	4
DSS-2	IDF ROOM 207	224	9.0	2,016	R-410A	26.0	52	9
FC-1	CUSTODIAL KEY 115	122	14.5	1,769	R-410A	26.0	46	3
FC-2	SECURE WH 114	180	10.0	1,800	R-410A	26.0	47	3
FC-3	ELECTRICAL ROOM 101	392	14.0	5,488	R-410A	26.0	143	18
FC-4	SECURE SHOP 121	89	10.0	890	R-410A	26.0	23	3
FC-5	CIRCULATION 118	1,660	14.0	23,240	R-410A	26.0	604	3
FC-6	CIRCULATION 118	1,660	14.0	23,240	R-410A	26.0	604	15
FC-7	MTG RM 1 215	450	9.0	4,050	R-410A	26.0	105	6
FC-8	MTG RM 2 205	401	9.0	3,609	R-410A	26.0	94	6
FC-9	LOUNGE 203	1,450	9.0	13,050	R-410A	26.0	339	46
FC-10	LOUNGE 203	1,450	9.0	13,050	R-410A	26.0	339	46

NOTES:

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rev	date	issue
2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

REGISTERED PROFESSIONAL ENGINEER — JEREMY M. KLASCO — No. M34857 Exp: 06/30/26 — MECHANICAL — STATE OF CALIFORNIA

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25555 HESPERIAN BLVD,
HAYWARD, CA 94545

plot date:
project number: 20-296
date: 12/11/2024

SCHEDULES - MECHANICAL

M0.03

ASHRAE 62.1 VENTILATION CALCULATION:AHU-1

SUM OF ZONE POPULATION (ΣPz) 42 PEOPLE
DIVERSITY (D = Ps/ΣPz) 1.00

UNCORRECTED OA INTAKE (Vou) 501 CFM
SUM OF PRIMARY AIR AT MIN (ΣVpz=Vps) 1,984 CFM

AVE UNCORRECTED OA FRACTION (Xs) 25.1% CFM/CFM
SYSTEM VENTILATION EFF. (Ev) 70.2%

OA INTAKE REQUIRED (Vot) 714 CFM
OA INTAKE PROVIDED 1,645 CFM

	(Er)			(Evz)	(Az)				(Pz)		(Ez)	(Rp)	(Ra)	(Vbzp)	(Vbza)	(Vbz)	(Voz)	(Vdz)	(Ep)	(Vpz)	(Pz)	(Zpz)
ZONE EQUIP TAG	**SECOND RECIRC FRAC**	**ROOM NUMER**	**SPACE DESCRIPTION**	**ZONE VENT EFF.**	**FLOOR AREA (Az)**	**PEAK CLG**	**OCC DENSITY DEFAULT**	**DEFAULT NO. PEOPLE**	**ACTUAL NO. PEOPLE**	**PEOPLE DIVERSITY**	**SPACE AIR DISTRI-BUTION EFFECT-IVENESS**	**PEOPLE OUTDOOR AIR RATE**	**AREA OUTDOOR AIR RATE**	**Rp*Pz**	**RA*Az**	**Rp*Pz + RA*Az**	**OUTDOOR AIR FLOW (DISTRIBUTION CORRECTED)**	**PRIMARY + SECONDARY AIR**	**PRIMARY AIR FRACTION (Ep)**	**ZONE PRIMARY AIR FLOW**	**PEAK NO. PEOPLE**	**OUTDOOR AIR FRACTION (AT MIN)**
					(SQ. FT.)	(CFM)	(PERSON/ 1000 SF)	(PEOPLE)	(PEOPLE)	(%)		(CFM/ PERSON)	(CFM/SF)	(CFM)	(CFM)	(CFM)	(CFM)	(CFM)		(CFM)	(PEOPLE)	Voz/Vpz
		211	LOCKSMITH	0.78	290	330	0	0	2	0%	0.80	10.0	0.06	20.0	17	37	47	99	1.0000	99	2	0.472
VAV-1		228	CIRCULATION	0.76	583	300	0	0	0	0%	0.80	0.0	0.06	0.0	35	35	44	90	1.00	90	0	0.486
		218	ADMIN	1.04	110	70	5	1	1	0%	0.80	5.0	0.06	5.0	7	12	15	70	1.0000	70	1	0.207
		219	LOUNGE	0.90	245	340	30	7	16	0%	0.80	5.0	0.06	80.0	15	95	118	340	1.00	340	16	0.348
VAV-2		228A	CIRCULATION	1.10	292	150	0	0	0	0%	0.80	0.0	0.06	0.0	17	17	22	150	1.00	150	0	0.146
		222	STORAGE	0.92	105	80	2	0	0	0%	0.80	5.0	0.06	0.0	6	6	8	24	1.0000	24	0	0.328
		231	STAIR 1	1.06	500	650	0	0	0	0%	0.80	0.0	0.06	0.0	30	30	38	195	1.00	195	0	0.192
VAV-3		228A	CIRCULATION	0.76	292	150	0	0	0	0%	0.80	0.0	0.06	0.0	17	17	22	45	1.00	45	0	0.486
		220	DIRECTOR	0.89	170	290	5	1	3	0%	0.80	5.0	0.06	15.0	10	25	32	87	1.0000	87	3	0.362
VAV-4																						
		228	CIRCULATION	0.76	583	300	0	0	0	0%	0.80	0.0	0.06	0.0	35	35	44	90	1.0000	90	0	0.486
VAV-5		214	MANAGER OFFICE	0.70	121	170	5	1	3	0%	0.80	5.0	0.06	15.0	7	22	28	51	1.00	51	3	0.546
		210	SUPERVISOR OFFICE 1	0.70	123	170	5	1	3	0%	0.80	5.0	0.06	15.0	7	22	28	51	1.0000	51	3	0.549
VAV-6																						
		206	SUPERVSOR OFFICE 3/4	0.74	178	210	5	1	3	0%	0.80	5.0	0.06	15.0	11	26	32	63	1.0000	63	3	0.510
VAV-7																						
		204	SUPERVISOR OFFICE 2	0.71	120	170	5	1	3	0%	0.80	5.0	0.06	15.0	7	22	28	51	1.0000	51	3	0.544
VAV-8																						
		201	SHARED LEADS OFFICE	0.84	257	260	5	1	2	0%	0.80	5.0	0.06	10.0	15	25	32	78	1.0000	78	2	0.407
VAV-9																						
		228	CIRCULATION	1.10	583	300	0	0	0	0%	0.80	0.0	0.06	0.0	35	35	44	300	1.0000	300	0	0.146
VAV-10		202	LOUNGE	1.01	134	200	25	3	6	0%	0.80	5.0	0.06	30.0	8	38	48	200	1.00	200	6	0.238

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rev	date	issue
2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

REGISTERED PROFESSIONAL ENGINEER
SHAWN VELASCO ALLEN
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plot date:
project number: 20-296
date: 12/11/2024

SCHEDULES - MECHANICAL

M0.04

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 1 of 30)

Project Name: Chabot_v2 **Date Prepared:** 2023-08-21

A. General Information

1	Project Name	Chabot_v2			
2	Run Title				
3	Project Location	25555 Hesperian Blvd			
4	City	Hayward	5	Standards Version	Compliance 2022
6	Zip code	94545	7	Compliance Software (version)	CBECC 2022.2.1 (1288)
8	Climate Zone	3	9	Building Orientation (deg)	0
10	Building Type(s)	• Nonresidential	11	Weather File	HAYWARD_STYP20.epw
12	Project Scope	• New complete scope	13	Number of Dwelling Units	0
14	Total Conditioned Floor Area in Scope (ft²)	32291.8	15	Total # of hotel/motel rooms	0
16	Total Unconditioned Floor Area (ft²)	0	17	Fuel Type	Natural gas
18	Nonresidential Conditioned Floor Area	32291.8	19	Total # of Stories (Habitable Above Grade)	2
20	Residential Conditioned Floor Area	0			

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B. PROJECT SUMMARY

Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within the permit application.

Building Components Complying via Performance						Building Components Complying Prescriptively	
Envelope (See Table G)	Nonres	Performance	Solar Thermal Water Heating (See Table I3)	☐	Performance	The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).	
	MultiFam	Not Included		☒	Not Included		
Mechanical (See Table H)	Nonres	Performance	Covered Process: Commercial Kitchens (see Table J)	☐	Performance	Indoor Lighting (Unconditioned) 140.6 & 170.2(e)	NRCC-LTI-E is required
	MultiFam	Not Included		☒	Not Included	Outdoor Lighting 140.7 & 170.2(e)	NRCC-LTO-E is required
Domestic Hot Water (See Table I)	Nonres	Not Included	Covered Process: Laboratory Exhaust (see Table J)	☐	Performance	Sign Lighting 140.8 & 170.2(e)	NRCC-LTS-E is required
	MultiFam	Not Included		☒	Not Included	**Building Components Complying with Mandatory Measures**	
Lighting (Indoor Conditioned, see Table K)	Nonres	Performance	Photovoltaics (see Table F)	☒	Performance	Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)	
	MultiFam	Not Included		☐	Not Included	Electrical Power Distribution 110.11	NRCC-ELC-E is required
			Battery (see Table F)	☐	Performance	Commissioning 120.8	NRCC-CXR-E is required
				☒	Not Included	Solar and Battery 110.10	NRCC-SAB-E is required

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C1. COMPLIANCE SUMMARY

	COMPLIES[3]		
	Time Dependent Valuaton (TDV)		Source Energy Use
	Efficiency[1] (kBtu/ft² - yr)	Total[2] (kBtu/ft² - yr)	Total[2] (kBtu/ft² - yr)
Standard Design	231.89	231.89	40.05
Proposed Design	218.85	218.85	29.3
Compliance Margins	**13.04**	**13.04**	**10.75**
	Pass	**Pass**	**Pass**

[1] Efficiency measures include improvements like a better building envelope and more efficient equipment
[2] Compliance Totals include efficiency, photovoltaics and batteries
[3] Building complies when efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 4 of 30)

C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft² - yr)

COMPLIES[2]			
Energy Component	**Standard Design (TDV)**	**Proposed Design (TDV)**	**Compliance Margin (TDV)[1]**
Space Heating	77.33	44.84	32.49
Space Cooling	42.73	24.86	17.87
Indoor Fans	69.68	107.29	-37.61
Heat Rejection	0	0	0
Pumps & Misc.	0.86	0.57	0.29
Domestic Hot Water	2.47	2.47	0
Indoor Lighting	38.82	38.82	0
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**231.89**	**218.85**	**13.04 (5.6%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**231.89**	**218.85**	**13.04 (5.6%)**

[1] Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

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Nonresidential Performance Compliance Method (Page 5 of 30)

C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Receptacle	56.67	56.67	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**288.56**	**275.52**	**13.04 (4.5%)**

[1] Notes: This table is not used for Energy Code Compliance.

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 6 of 30)

C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kBtu/ft² /yr)

COMPLIES[2]			
Energy Component	**Standard Design (SOURCE)**	**Proposed Design (SOURCE)**	**Compliance Margin (SOURCE)[1]**
Space Heating	27.39	14.77	12.62
Space Cooling	1.72	0.81	0.91
Indoor Fans	7.04	9.87	-2.83
Heat Rejection	0	0	0
Pumps & Misc.	0.1	0.05	0.05
Domestic Hot Water	0.69	0.69	0
Indoor Lighting	3.11	3.11	0
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**40.05**	**29.3**	**10.75 (26.8%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**40.05**	**29.3**	**10.75 (26.8%)**

[1] Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

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C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[1]
Receptacle	4.53	4.53	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**44.58**	**33.83**	**10.75 (24.1%)**

[1] Notes: This table is not used for Energy Code Compliance.

C6. 'ABOVE CODE' QUALIFICATIONS

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2

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C7. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	0.1	3.4	-3.3	949.4	498	451.4
Space Cooling	27.3	17.9	9.4	---	---	---
Indoor Fans	77.1	123.5	-46.4	---	---	---
Heat Rejection	---	---	---	---	---	---
Pumps & Misc.	1.1	0.7	0.4	---	---	---
Domestic Hot Water	1	1	0	21.6	21.6	0
Indoor Lighting	48.8	48.8	0	---	---	---
Flexibility	---	---	---	---	---	---
EFFICIENCY TOTAL	**155.4**	**195.3**	**-39.9**	**971**	**519.6**	**451.4**
Photovoltaics	---	---	---	---	---	---
Batteries	---	---	---	---	---	---
ENERGY USE SUBTOTAL	**155.4**	**195.3**	**-39.9**	**971**	**519.6**	**451.4**
Receptacle	71.2	71.2	0	---	---	---
Process	---	---	---	---	---	---
Other Ltg	---	---	---	---	---	---
Process Motors	---	---	---	---	---	---
ENERGY USE TOTAL	**226.6**	**266.5**	**-39.9**	**971**	**519.6**	**451.4**

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C8. ENERGY USE INTENSITY (EUI)

	Standard Design (kBtu/ft² / yr)	Proposed Design (kBtu/ft² / yr)	Margin (kBtu/ft² / yr)	Margin Percentage
GROSS EUI[1]	54.01	44.25	9.76	18.07
NET EUI[1]	54.01	44.25	9.76	18.07

[1] Notes: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area.

C9. UNMET LOAD HOURS

Thermal Zone Name	Cooling Unmet Load Hour Limit for Thermal Zone	Proposed Cooling Unmet Load Hours	Heating Unmet Load Hour Limit for Thermal Zone	Proposed Heating Unmet Load Hours
Zn Lounge_F2	150	0	150	184

D1. EXCEPTIONAL CONDITIONS

• The building does not include service water heating. Verify that service water heating is not required and is not included in the design.
• The user model includes space(s) that are designed to be served by mechanical cooling systems, but the cooling systems were not included in the simulation model. A cooling system has been modeled for both the proposed and standard cases.
• The user model includes space(s) without sufficient cooling equipment. Cooling equipment has been added to the model to meet cooling loads.
• Project is claiming Exception 1 to Section 140.10(b): No battery storage system is required if the installed PV system size is less than 15 percent of the size determined by Equation 140.10-A.

F1. REQUIRED PV SYSTEMS

01	02	03	04	05	06	07	08	09	10	11	12
DC System Size (kWdc)	Exception[1]	Module Type	Array Type	Power Electronics	CFI	Azimuth (deg)	Tilt Input	Array Angle (deg)	Tilt: (x in 12)	Inverter Eff. (%)	Annual Solar Access (%)

[1]See Table D1 for any PV exceptions used.

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DIV. OF THE STATE ARCHITECT
APP: 01-121159 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 2/19/2025

CHABOT COLLEGE

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rev	date	issue
2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

REGISTERED PROFESSIONAL ENGINEER
VELASCO JAMES ANTHONY
No. M34857
Exp: 06/30/26
MECHANICAL
STATE OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD,
HAYWARD, CA 94545

plot date:
project number: 20-296
date: 12/11/2024

TITLE 24 - MECHANICAL

M0.05

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F1B. PV BATTERY BUILDING TYPE(S)

01	02	03
Building Occupancy Type* (From Table 140.10-A/B and 170.2-U/V)	Conditioned Floor Area (ft^2)	Unconditioned Floor Area (ft^2)
Grocery	0	0
High-Rise Multifamily	0	0
Office, Financial Institutions, Unleased Tenant Space	1089.28	0
Retail	0	0
School	0	0
Warehouse	19103.7	0
Auditorium, Convention Center, Hotel/Motel, Library, Medical Office Building/Clinic, Restaurant, Theater	927.2	0
None	11171.7	0

** Building Occupancy Types are defined in Section 100.1 of the Energy Code*

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

01	02	03	04
Opaque Surfaces & Orientation	Total Gross Surface Area (ft^2)	Total Fenestration Area (ft^2)	Window to Wall Ratio (%)
North-Facing[1]	2824	96.81	3.43
East-Facing[2]	3260	238.97	7.33
South-Facing[3]	2824	0	0
West-Facing[4]	3260	0	0
Total	**12168**	**335.78**	**2.76**
Roof	21924.6	0	0

Notes
[1] North-Facing is oriented to within 45 degrees of true north, including 45 00'00" east of north (NE), but excluding 45 00'00" west of north (NW),
[2] East-Facing is oriented to within 45 degrees of true east, including 45 00'00" south of east (SE), but excluding 45 00'00" north of east (NE),
[3] South-Facing is oriented to within 45 degrees of true south, including 45 00'00" west of south (SW), but excluding 45 00'00" east of south (SE),
[4] West-Facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW),

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G4. NONRESIDENTIAL AIR BARRIER

01	02
Building Story Name	Air Barrier
First Floor	No air barrier
Second Floor	No air barrier

G5. OPAQUE SURFACE ASSEMBLY SUMMARY

01	02	03	04	05	06		07	08	09	10
Surface Name	Construction Type	Area (ft^2)	Framing Type	Cavity R-Value	Continuous R-Value		Units	Value	Description of Assembly Layers	Status[1]
					Interior	Exterior				
Slab On Grade	Underground Floor	641.76	N/A	0	N/A	1.54	F-factor	0.73	Slab Type =Unheated slab on grade Insulation Orientation =None Insulation R-Value =none	N
Internal Ceiling/Floor	Interior Floor	10,501.1	N/A	0	N/A	N/A	U-factor	0.2985	Gypsum Board - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Gypsum Board - 1/2 in.	N
Metal Wall	Exterior Wall	12,168	N/A	13	N/A	N/A	U-factor	0.1075	Wall Insulation Gypsum Board - 1/2 in.	N
Internal Partition	Interior Wall	19,512	N/A	0	N/A	N/A	U-factor	0.3226	Gypsum Board - 1/2 in. Air - Wall - 3/4 in. Gypsum Board - 1/2 in.	N
Metal Roof	Roof	21,924.6	N/A	29	N/A	N/A	U-factor	0.041	Metal Standing Seam - 1/16 in. Roof Insulation	N
Slab On Grade 2	Underground Floor	21,282.9	N/A	0	N/A	N/A	F-factor	0.73	Slab Type =Unheated slab on grade Insulation Orientation =None Insulation R-Value =none	N

[1] Status: N - New, A - Altered, E - Existing

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G6A. OPAQUE DOOR SUMMARY (NONRESIDENTIAL)

01	02	03	04
Assembly Name	Area (ft^2)	Overall U-factor	Status[1]
ExtDoorU070	157.48	0.7017	N

[1] Status: N - New, A - Altered, E - Existing

G7A. FENESTRATION ASSEMBLY SUMMARY (NONRESIDENTIAL)

01	02	03	04	05	06	07	08	09
Fenestration Assembly Name	Fenestration Type/ Product Type / Frame Type	Certification Method[1]	Assembly Method	Area (ft^2)	Overall U-factor	Overall SHGC	Overall VT	Status[2]
Fixed Window	Vertical fenestration Fixed window N/A	NFRC	Manufactured	335.78	0.46	0.27	0.71	N

[1] Notes: Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.
[2] Status: N - New, A - Altered, E - Existing

H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)

01	02	03	04	05	06	07	08	09	10	11	12
Equipment Name	Equipment Type	Qty	Heating				Cooling			Economizer Type (if present)	Status[1]
			Total Heating Output (kBtu/h)	Supp Heat Output (kBtu/h)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency		
MAU-1/2	Package SZ VAV AC Air System	1	570	0	N/A	NA - See Boiler	0	N/A	NA	No Economizer	N

[1] Status: N - New, A - Altered, E - Existing

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H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)

01	02	03	04	05	06	07	08	09	10	11	12
Equipment Name	Equipment Type	Qty	Heating				Cooling			Economizer Type (if present)	Status[1]
			Total Heating Output (kBtu/h)	Supp Heat Output (kBtu/h)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency		
AHU-1	Package VAV Air System	1	152.8	0	N/A	NA - See Boiler	131	N/A	NA - See Chiller	No Economizer	N
ERV-1	Single Zone Air Conditioner (SZAC) Air System	1	0	0	N/A	NA	0	N/A	NA	No Economizer	N
ERV-2	Single Zone Air Conditioner (SZAC) Air System	1	0	0	N/A	NA	0	N/A	NA	No Economizer	N
ERV-3/4	Single Zone Air Conditioner (SZAC) Air System	1	0	0	N/A	NA	0	N/A	NA	No Economizer	N
ERV-5/11	Single Zone Air Conditioner (SZAC) Air System	1	0	0	N/A	NA	0	N/A	NA	No Economizer	N
ERV-6	Single Zone Air Conditioner (SZAC) Air System	1	0	0	N/A	NA	0	N/A	NA	No Economizer	N
ERV-7	Single Zone Air Conditioner (SZAC) Air System	1	0	0	N/A	NA	0	N/A	NA	No Economizer	N
ERV-8	Single Zone Air Conditioner (SZAC) Air System	1	0	0	N/A	NA	0	N/A	NA	No Economizer	N

[1] Status: N - New, A - Altered, E - Existing

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H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)

01	02	03	04	05	06	07	08	09	10	11	12
Equipment Name	Equipment Type	Qty	Heating				Cooling			Economizer Type (if present)	Status[1]
			Total Heating Output (kBtu/h)	Supp Heat Output (kBtu/h)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency		
ERV-9/10	Single Zone Air Conditioner (SZAC) Air System	1	0	0	N/A	NA	0	N/A	NA	No Economizer	N
ERV-12	Single Zone Air Conditioner (SZAC) Air System	1	0	0	N/A	NA	0	N/A	NA	No Economizer	N
UH-1/2	Single Zone Air Conditioner	1	44	0	N/A	NA - See Boiler	44	EER SEER	12.2 15	N/A	N
UH-3	Single Zone Air Conditioner	1	19	0	N/A	NA - See Boiler	19	EER SEER	12.2 15	N/A	N
UH-7	Single Zone Air Conditioner	1	7	0	N/A	NA - See Boiler	7	EER SEER	12.2 15	N/A	N
UH-10/11	Single Zone Air Conditioner	1	140	0	N/A	NA - See Boiler	140	EER	10.8	N/A	N
UH-4/5	Single Zone Air Conditioner	1	16	0	N/A	NA - See Boiler	16	EER SEER	12.2 15	N/A	N
FC-1	Single Zone Heat Pump	1	8.2	0	N/A	NA	9	EER SEER	11.7 15	N/A	N
FC-2	Single Zone Heat Pump	1	8.2	0	N/A	NA	9	EER SEER	11.7 15	N/A	N
FC-3	Single Zone Heat Pump	1	45	0	N/A	NA	42	EER SEER	11.7 15	N/A	N
FC-4	Single Zone Heat Pump	1	8.2	0	N/A	NA	9	EER SEER	11.7 15	N/A	N

[1] Status: N - New, A - Altered, E - Existing

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H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)

01	02	03	04	05	06	07	08	09	10	11	12
Equipment Name	Equipment Type	Qty	Heating				Cooling			Economizer Type (if present)	Status[1]
			Total Heating Output (kBtu/h)	Supp Heat Output (kBtu/h)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency		
FC-5	Single Zone Heat Pump	1	15.4	0	N/A	NA	15	EER SEER	11.7 15	N/A	N
UH-6/12	Single Zone Air Conditioner	1	16	0	N/A	NA - See Boiler	16	EER SEER	12.2 15	N/A	N
FC-7	Single Zone Heat Pump	1	19	0	N/A	NA	18	EER SEER	11.7 15	N/A	N
FC-8	Single Zone Heat Pump	1	19	0	N/A	NA	18	EER SEER	11.7 15	N/A	N
FC-9-12	Single Zone Heat Pump	1	80	0	COP	4.57	72	EER	11	N/A	N
UH-8	Single Zone Air Conditioner	1	7	0	N/A	NA - See Boiler	7	EER SEER	12.2 15	N/A	N
UH-9	Single Zone Air Conditioner	1	12	0	N/A	NA - See Boiler	12	EER SEER	12.2 15	N/A	N
FC-6	Single Zone Heat Pump	1	18	0	N/A	NA	18	EER SEER	11.7 15	N/A	N

[1] Status: N - New, A - Altered, E - Existing

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Nonresidential Performance Compliance Method (Page 16 of 30)

H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12	13
Name or Item Tag	Qty	Design OA CFM	Supply Fan				Return / Relief Fan					Status[1]
			CFM	Power	Power Units	Control	Fan Type	CFM	Power	Power Units	Control	
MAU-1/2	1	0	10,380	1.13	InH2O	VSD	N/A	N/A	N/A	N/A	N/A	N
AHU-1	1	1149.48	3,500	3.64	BHP	VSD	N/A	N/A	N/A	N/A	N/A	N
ERV-1	1	0	3,420	1	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
ERV-2	1	0	1,310	0.5	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
ERV-3/4	1	0	1,490	1.5	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
ERV-5/11	1	0	1,440	1.75	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
ERV-6	1	0	310	0.75	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
ERV-7	1	0	400	0.75	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
ERV-8	1	0	930	0.5	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
ERV-9/10	1	0	11,760	2	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
ERV-12	1	79.92	1,160	0.75	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
UH-1/2	1	0	1,190	0.5	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
UH-3	1	0	550	0.5	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
UH-7	1	0	550	0.5	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
UH-10/11	1	0	3,000	0.5	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
UH-4/5	1	0	1,190	0.5	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
FC-1	1	0	280	0.6	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
FC-2	1	35.78	280	0.6	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
FC-3	1	71.04	1,300	0.6	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
FC-4	1	35.62	280	1.35	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
FC-5	1	9.38	500	0.6	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
Carpentry Shop Exhaust	1	0	850	3.46	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N

[1] Status: N - New, A - Altered, E - Existing

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 17 of 30)

H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12	13
Name or Item Tag	Qty	Design OA CFM	Supply Fan				Return / Relief Fan					Status[1]
			CFM	Power	Power Units	Control	Fan Type	CFM	Power	Power Units	Control	
Custodial Exhaust	1	0	737	3.99	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
Storage Exhaust	1	0	4,514	0.65	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
Vehicle Maint Exhaust	1	0	4,256	0.69	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
Grounds Shop Exhaust	1	0	1,946	1.51	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
Storage 2 Exhaust	1	0	1,797	1.64	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
HVAC Shop Exhaust	1	0	937	3.14	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
Elec Shop Exhaust	1	0	642	4.58	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
Warehouse Exhaust	1	0	5,428	0.54	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
UH-6/12	1	0	1,190	0.5	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
FC-7	1	219.6	500	0.6	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
FC-8	1	244	500	0.6	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
FC-9-12	1	821.91	1,000	2.4	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
UH-8	1	0	550	0.5	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
UH-9	1	0	550	0.5	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
FC-6	1	290.33	600	0.6	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N

[1] Status: N - New, A - Altered, E - Existing

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 18 of 30)

H5. GENERAL EXHAUST FAN SUMMARY

01	02	03	04	05	06	07	08
System ID	Zone Name	Qty	CFM	Power	Power Units	Continuous Operation?	Status[1]
Carpentry Shop Exhaust	Zn CarprentryShop_F1	1	850	3.46	InH2O	No	N
Custodial Exhaust	Zn Custodial_F1	1	737	3.99	InH2O	No	N
Storage Exhaust	Zn Storage1_F1	1	4514	0.65	InH2O	No	N
Vehicle Maint Exhaust	Zn VehicleMaintShop_F1	1	4256	0.69	InH2O	No	N
Grounds Shop Exhaust	Zn GroundsShop_F1	1	1946	1.51	InH2O	No	N
Storage 2 Exhaust	Zn Storage2_F1	1	1797	1.64	InH2O	No	N
HVAC Shop Exhaust	Zn HVACShop_F1	1	937	3.14	InH2O	No	N
Elec Shop Exhaust	Zn ElecShop_F1	1	642	4.58	InH2O	No	N
Restroom Exhaust	Zn Corridor1_F2 Zn DirectorOffice_F2 Zn SecureWH_F1	1	650	4.52	InH2O	No	N
Warehouse Exhaust	Zn Warehouse_F1	1	5428	0.54	InH2O	No	N
ERV-1		1	3420	1	InH2O	Yes	N
ERV-2		1	1430	0.5	InH2O	Yes	N
ERV-3/4		1	1490	1.5	InH2O	Yes	N
ERV-5/11		1	1490	1.75	InH2O	Yes	N
ERV-6		1	310	0.75	InH2O	Yes	N
ERV-7		1	400	0.75	InH2O	Yes	N
ERV-8		1	930	0.5	InH2O	Yes	N
ERV-9/10		1	11760	2	InH2O	Yes	N
ERV-12		1	1160	0.75	InH2O	Yes	N

[1] Status: N - New, A - Altered, E - Existing

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rev	date	issue
2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

REGISTERED PROFESSIONAL ENGINEER SHARON M. VELASCO KLEAN No. M34857 Exp: 06/30/26 MECHANICAL STATE OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD,
HAYWARD, CA 94545

plot date:
project number: 20-296
date: 12/11/2024

TITLE 24 - MECHANICAL

M0.06

H6. WET SYSTEM EQUIPMENT (boilers, chillers, cooling towers, etc.)

01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Equipment Type	Parent Fluid System Name	Qty	Vol (gal)	Rated Capacity	Capacity Unit	Rating	Rating Unit	Status[1]
Boiler 1	Hot Water	Campus HWL	1	N/A	750	kBtu/Hr	0.84	TE	N
Chiller 1	Screw	Campus CWL	1	N/A	1,000	kBtu/Hr	17	EER	N

[1] Status: N - New, A - Altered, E - Existing

H7. PUMPS

01	02	03	04	05	06	07	08
Name or Item Tag	Parent Equipment	Qty	Power	Power Units	GPM	VSD	Status[1]
Pump 1	Boiler 1	1	5	BHP	200	☒	N
Pump 2	Chiller 1	1	5	BHP	200	☒	N

[1] Status: N - New, A - Altered, E - Existing

H8. SYSTEM SPECIAL FEATURES

01	02	03	04
System Name	Equipment Type	Interlocks per 140.4(n)[1]	Other Special Features and Controls
MAU-1/2	Package SZ VAV AC Air System	N/A	DDC Controls
AHU-1	Package VAV Air System	No	DDC Controls Dual Maximum Reheat Controls Warmest Zone Supply Air Temp. Reset
ERV-1	Single Zone Air Conditioner (SZAC) Air System	N/A	DDC Controls Heat Recovery

Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.

[1] Yes = interlocks are provided, No = interlocks are not provided, NA means no operable openings.

H8. SYSTEM SPECIAL FEATURES

01	02	03	04
System Name	Equipment Type	Interlocks per 140.4(n)[1]	Other Special Features and Controls
ERV-2	Single Zone Air Conditioner (SZAC) Air System	N/A	DDC Controls Heat Recovery
ERV-3/4	Single Zone Air Conditioner (SZAC) Air System	N/A	DDC Controls Heat Recovery
ERV-5/11	Single Zone Air Conditioner (SZAC) Air System	N/A	DDC Controls Heat Recovery
ERV-6	Single Zone Air Conditioner (SZAC) Air System	N/A	DDC Controls Heat Recovery
ERV-7	Single Zone Air Conditioner (SZAC) Air System	N/A	DDC Controls Heat Recovery
ERV-8	Single Zone Air Conditioner (SZAC) Air System	N/A	DDC Controls Heat Recovery
ERV-9/10	Single Zone Air Conditioner (SZAC) Air System	N/A	DDC Controls Heat Recovery
ERV-12	Single Zone Air Conditioner (SZAC) Air System	N/A	DDC Controls Heat Recovery
Campus HWL	Hot Water System	N/A	DDC Controls Fixed Temperature Control
Campus CWL	Chilled Water System	N/A	DDC Controls Fixed Temperature Control

Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.

[1] Yes = interlocks are provided, No = interlocks are not provided, NA means no operable openings.

H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION

01	02	03	04	05	06	07
Zone Name	Mechanical Ventilation				Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# of People	Supply OA CFM	Exhaust CFM		
Zn Corridor1_F2	Exhaust - Toilets, public Exhaust - Locker rooms for athletic or industrial facilities Misc - Warehouses General - Corridors NA	19.38	528.22	431.04	4680.48	N/A
Zn Lounge3_F2	Office - Reception areas	27.22	408.26	0	816.48	N/A
Zn DirectorOffice_F2	Exhaust - Locker rooms for athletic or industrial facilities Office - Office space	3.31	28.22	118.56	425.28	N/A
Zn Elec_F2	Misc - Telephone closets	0.09	9.38	0	62.56	N/A
Zn Lounge2_F2	General - Corridors Office - Reception areas	53.49	821.91	0	1826.08	N/A
Zn MtgRm2_F2	General - Conference/meeting	14.64	219.6	0	439.2	N/A
Zn IDF_F2	Misc - All others	0.36	35.62	0	237.44	N/A
Zn Locksmith_F2	Misc - Telephone closets	0.5	49.61	0	330.72	N/A
Zn MtgRm1_F2	General - Conference/meeting	16.27	244	0	488	N/A
Zn Office5_F2	Office - Office space	0.67	20.09	0	133.92	N/A
Zn Office3_F2	Office - Office space	1.73	51.84	0	345.6	N/A
Zn Office1_F2	Office - Office space	2.11	63.24	0	421.6	N/A
Zn Lounge_F2	Office - Reception areas	5.33	79.92	0	159.84	N/A
Zn Warehouse_F1	Exhaust - Storage rooms, chemical	3.62	0	5428.08	3618.72	N/A

H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION

01	02	03	04	05	06	07
Zone Name	Mechanical Ventilation				Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# of People	Supply OA CFM	Exhaust CFM		
Zn SecureWH_F1	Exhaust - Toilets, public Misc - Warehouses	0.57	35.78	100	305.76	N/A
Zn Corridor_F1	Misc - Telephone closets General - Corridors NA	9.18	290.33	0	2069.44	N/A
Zn ElecShop_F1	Exhaust - Janitor closets, trash rooms, recycling	3.21	0	641.76	641.76	N/A
Zn HVACShop_F1	Exhaust - Janitor closets, trash rooms, recycling	4.68	0	936.96	936.96	N/A
Zn Storage2_F1	Exhaust - Storage rooms, chemical	1.2	0	1797.12	1198.08	N/A
Zn GroundsShop_F1	Exhaust - Janitor closets, trash rooms, recycling	9.73	0	1945.6	1945.6	N/A
Zn VehicleMaintShop_F1	Exhaust - Janitor closets, trash rooms, recycling	21.28	0	4256	4256	N/A
Zn Storage1_F1	Exhaust - Storage rooms, chemical	3.01	0	4514.4	3009.6	N/A
Zn Custodial_F1	Exhaust - Woodwork shop/classrooms	7.37	0	736.56	1473.12	N/A
Zn CarprentryShop_F1	Exhaust - Woodwork shop/classrooms Exhaust - Paint spray booths	9.59	0	849.92	1918.24	N/A
Zn Elec_F1	Misc - Telephone closets	0.71	71.04	0	473.6	N/A
Zn ElevMchRm_F1	Exhaust - Refrigerating machinery rooms	0.12	0	0	77.76	N/A

H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12
System ID	System Type	Qty	Rated Capacity (kBtuh)		Airflow (cfm)			Fan			VSD
			Heating	Cooling	Design	Min.	Min. Ratio	Power	Power Units	Cycles	
TerminalUnit 19	Variable Air Volume No Reheat Box	1	N/A	N/A	10,380	5,000	0.48	N/A	N/A	N/A	☐
VAV-10	Variable Air Volume Reheat Box	1	9.5	N/A	500	150	0.3	N/A	N/A	N/A	☐
VAV-3	Variable Air Volume Reheat Box	1	16.6	N/A	875	550	0.63	N/A	N/A	N/A	☐
VAV-2	Variable Air Volume Reheat Box	1	13.5	N/A	710	450	0.63	N/A	N/A	N/A	☐
VAV-4	Variable Air Volume Reheat Box	1	5.6	N/A	290	90	0.31	N/A	N/A	N/A	☐
VAV-1	Variable Air Volume Reheat Box	1	12	N/A	630	190	0.3	N/A	N/A	N/A	☐
VAV-5/6	Variable Air Volume Reheat Box	1	12.3	N/A	640	190	0.3	N/A	N/A	N/A	☐
VAV-7/8	Variable Air Volume Reheat Box	1	8.3	N/A	380	110	0.29	N/A	N/A	N/A	☐
VAV-9	Variable Air Volume Reheat Box	1	5	N/A	260	75	0.29	N/A	N/A	N/A	☐
TerminalUnit 10	Uncontrolled	1	N/A	N/A	3,420	N/A	0	N/A	N/A	N/A	☐
TerminalUnit 11	Uncontrolled	1	N/A	N/A	1,310	N/A	0	N/A	N/A	N/A	☐
TerminalUnit 12	Uncontrolled	1	N/A	N/A	1,490	N/A	0	N/A	N/A	N/A	☐
TerminalUnit 13	Uncontrolled	1	N/A	N/A	1,440	N/A	0	N/A	N/A	N/A	☐
TerminalUnit 14	Uncontrolled	1	N/A	N/A	310	N/A	0	N/A	N/A	N/A	☐
TerminalUnit 15	Uncontrolled	1	N/A	N/A	400	N/A	0	N/A	N/A	N/A	☐
TerminalUnit 16	Uncontrolled	1	N/A	N/A	930	N/A	0	N/A	N/A	N/A	☐
TerminalUnit 17	Uncontrolled	1	N/A	N/A	11,760	N/A	0	N/A	N/A	N/A	☐

H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12
System ID	System Type	Qty	Rated Capacity (kBtuh)		Airflow (cfm)			Fan			VSD
			Heating	Cooling	Design	Min.	Min. Ratio	Power	Power Units	Cycles	
TerminalUnit 18	Uncontrolled	1	N/A	N/A	1,160	N/A	0	N/A	N/A	N/A	☐
UH-1/2	Single Zone Air Conditioner	1	44	44	1,190	N/A	N/A	0.5	inH2O	Cycling	☐
UH-3	Single Zone Air Conditioner	1	19	19	550	N/A	N/A	0.5	inH2O	Cycling	☐
UH-7	Single Zone Air Conditioner	1	7	7	550	N/A	N/A	0.5	inH2O	Cycling	☐
UH-10/11	Single Zone Air Conditioner	1	140	140	3,000	N/A	N/A	0.5	inH2O	Cycling	☐
UH-4/5	Single Zone Air Conditioner	1	16	16	1,190	N/A	N/A	0.5	inH2O	Cycling	☐
FC-1	Single Zone Heat Pump	1	8.2	9	280	N/A	N/A	0.6	inH2O	Continuous	☐
FC-2	Single Zone Heat Pump	1	8.2	9	280	N/A	N/A	0.6	inH2O	Continuous	☐
FC-3	Single Zone Heat Pump	1	45	42	1,300	N/A	N/A	0.6	inH2O	Continuous	☐
FC-4	Single Zone Heat Pump	1	8.2	9	280	N/A	N/A	1.35	inH2O	Continuous	☐
FC-5	Single Zone Heat Pump	1	15.4	15	500	N/A	N/A	0.6	inH2O	Continuous	☐
UH-6/12	Single Zone Air Conditioner	1	16	16	1,190	N/A	N/A	0.5	inH2O	Cycling	☐
FC-7	Single Zone Heat Pump	1	19	18	500	N/A	N/A	0.6	inH2O	Continuous	☐
FC-8	Single Zone Heat Pump	1	19	18	500	N/A	N/A	0.6	inH2O	Continuous	☐
FC-9-12	Single Zone Heat Pump	1	80	72	1,000	N/A	N/A	2.4	inH2O	Continuous	☐
UH-8	Single Zone Air Conditioner	1	7	7	550	N/A	N/A	0.5	inH2O	Cycling	☐
UH-9	Single Zone Air Conditioner	1	12	12	550	N/A	N/A	0.5	inH2O	Cycling	☐
FC-6	Single Zone Heat Pump	1	18	18	600	N/A	N/A	0.6	inH2O	Continuous	☐

H13. ENERGY RECOVERY SUMMARY

01	02	03	04	05	06	07	08	09	10
Equipment Name	Equipment Type	Equipment Type	Heating			Cooling			Status[1]
			Sensible	Latent	Total	Sensible	Latent	Total	
ERV-1	Single Zone Air Conditioner (SZAC) Air System	AHRI	0.69	0.54	0.64	0.69	0.43	0.69	N
ERV-2	Single Zone Air Conditioner (SZAC) Air System	AHRI	0.69	0.54	0.64	0.69	0.43	0.69	N
ERV-3/4	Single Zone Air Conditioner (SZAC) Air System	AHRI	0.69	0.54	0.64	0.69	0.43	0.69	N
ERV-5/11	Single Zone Air Conditioner (SZAC) Air System	AHRI	0.69	0.54	0.64	0.69	0.43	0.69	N
ERV-6	Single Zone Air Conditioner (SZAC) Air System	AHRI	0.69	0.54	0.64	0.69	0.43	0.69	N
ERV-7	Single Zone Air Conditioner (SZAC) Air System	AHRI	0.69	0.54	0.64	0.69	0.43	0.69	N
ERV-8	Single Zone Air Conditioner (SZAC) Air System	AHRI	0.69	0.54	0.64	0.69	0.43	0.69	N
ERV-9/10	Single Zone Air Conditioner (SZAC) Air System	AHRI	0.69	0.54	0.64	0.69	0.43	0.69	N
ERV-12	Single Zone Air Conditioner (SZAC) Air System	AHRI	0.69	0.54	0.64	0.69	0.43	0.69	N

[1] Status: N - New, A - Altered, E - Existing

K1. INDOOR CONDITIONED LIGHTING GENERAL INFO

01	02	03	04	05	06
Occupancy Type[1]	Conditioned Floor Area[2] (ft²)	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Additional (Custom) Allowance	
				Area Category Footnotes (Watts)	Area Category Footnotes (Watts)
Convention, Conference, Multipurpose and Meeting Center	927.2	695.4	0	0	0
Corridor	2706.24	1082.5	0	0	0
Electrical Mechanical Telephone Room	1324.16	529.66	0	0	0
Locker/Dressing Room	499.2	224.64	0	0	0
Lounge	2541.92	1398.06	0	0	0
General Commercial Industrial Work AreaLow Bay	11171.7	6703.01	0	0	0
Office (250 square feet)	283.36	170.02	0	0	0
Office (250 square feet)	805.92	523.85	0	0	0
Restroom	886.4	576.16	0	0	0
Stairwell	1634.24	980.54	0	0	0
Commercial Industrial Warehouse	9299.84	3719.94	0	0	0
Unoccupied Include In Gross Floor Area	211.68	0	0	0	0
Building Totals:	**32291.8**	**16603.8**	**0**	**0**	**0**

[1] See Table 140.6-C
[2] See NRCC-LTI--E for unconditioned spaces
[3] Lighting information for existing spaces modeled is not included in this table

K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROL

See NRCC-LTI-E for mandatory controls

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

Building Component	Form/Title
Envelope	NRCI-ENV-E - Envelope (for all buildings)
Mechanical	NRCI-MCH-E - For all buildings with Mechanical Systems
Indoor Lighting	NRCI-LTI-E - Indoor Lighting (for all buildings)

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).

Building Component	Form/Title
Envelope	NRCA-ENV-02-F - NRFC label verification for fenestration
Indoor Lighting	NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls.
Indoor Lighting	NRCA-LTI-03-A - Automatic Daylight Controls.
Indoor Lighting	NRCA-LTI-04-A - Demand Responsive Lighting Controls.
Mechanical	NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap
Mechanical	NRCA-MCH-03-A - Constant Volume Single Zone HVAC
Mechanical	NRCA-MCH-07-A Supply Fan Variable Flow Controls
Mechanical	NRCA-MCH-08-A Valve Leakage Test
Mechanical	NRCA-MCH-11-A Automatic Demand Shed Controls
Mechanical	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance
Mechanical	NRCA-MCH-16-A Supply Air Temperature Reset Controls
Mechanical	NRCA-MCH-18-A Energy Management Control Systems

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2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

REGISTERED PROFESSIONAL ENGINEER SHANE VELASCO ALLEN No. M34857 Exp: 06/30/26 MECHANICAL STATE OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD,
HAYWARD, CA 94545

plot date:
project number: 20-296
date: 12/11/2024

TITLE 24 - MECHANICAL

M0.07

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD	NRCC-PRF-E
Nonresidential Performance Compliance Method	(Page 28 of 30)

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

Building Component	Form/Title
Mechanical	NRCV-MCH-27 Indoor Air Quality & Mechanical Ventilation
Mechanical	NRCV-MCH-32 Local Mechanical Exhaust

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD	NRCC-PRF-E
Nonresidential Performance Compliance Method	(Page 29 of 30)

Documentation Author's Declaration Statement

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Angelique Fathy	Documentation Author Signature: Angelique Fathy
Company: Interface Engineering	Signature Date: 10/20/2023
Address: 49 Stevenson Street Suite 660	CEA/HERS Certification Identification (if applicable): -specify-
City/State/Zip: San Francisco, CA 94105	Phone: 415-489-3221

Responsible Person's Declaration statement

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I understand that a registered copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections, and I will take the necessary steps to accomplish this requirement.
6. I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy, and I will take the necessary steps to accomplish these requirements.

Responsible Designer Name: Shawn MacLean	Responsible Designer Signature:	
Company: Interface Engineering		
Address: 49 Stevenson Street, Suite 660	Date Signed: 10/20/2023	
City/State/Zip: San Francisco, CA 94105	License #: M34857	
Phone: 415.489.3221	Title: Principal	Scope:
Responsible Designer Name: N/A	Responsible Designer Signature: N/A	
Company: N/A		
Address: N/A	Date Signed: N/A	
City/State/Zip: N/A	License #: N/A	
Phone: N/A	Title: N/A	Scope: N/A

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD	NRCC-PRF-E
Nonresidential Performance Compliance Method	(Page 30 of 30)

Responsible Designer Name: N/A	Responsible Designer Signature: N/A	
Company: N/A		
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	2022.02.28	SCHEMATIC DESIGN

SHAWN VELASCO MACLEAN
No. M34857
Exp: 06/30/26
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TITLE 24 - MECHANICAL

M0.08

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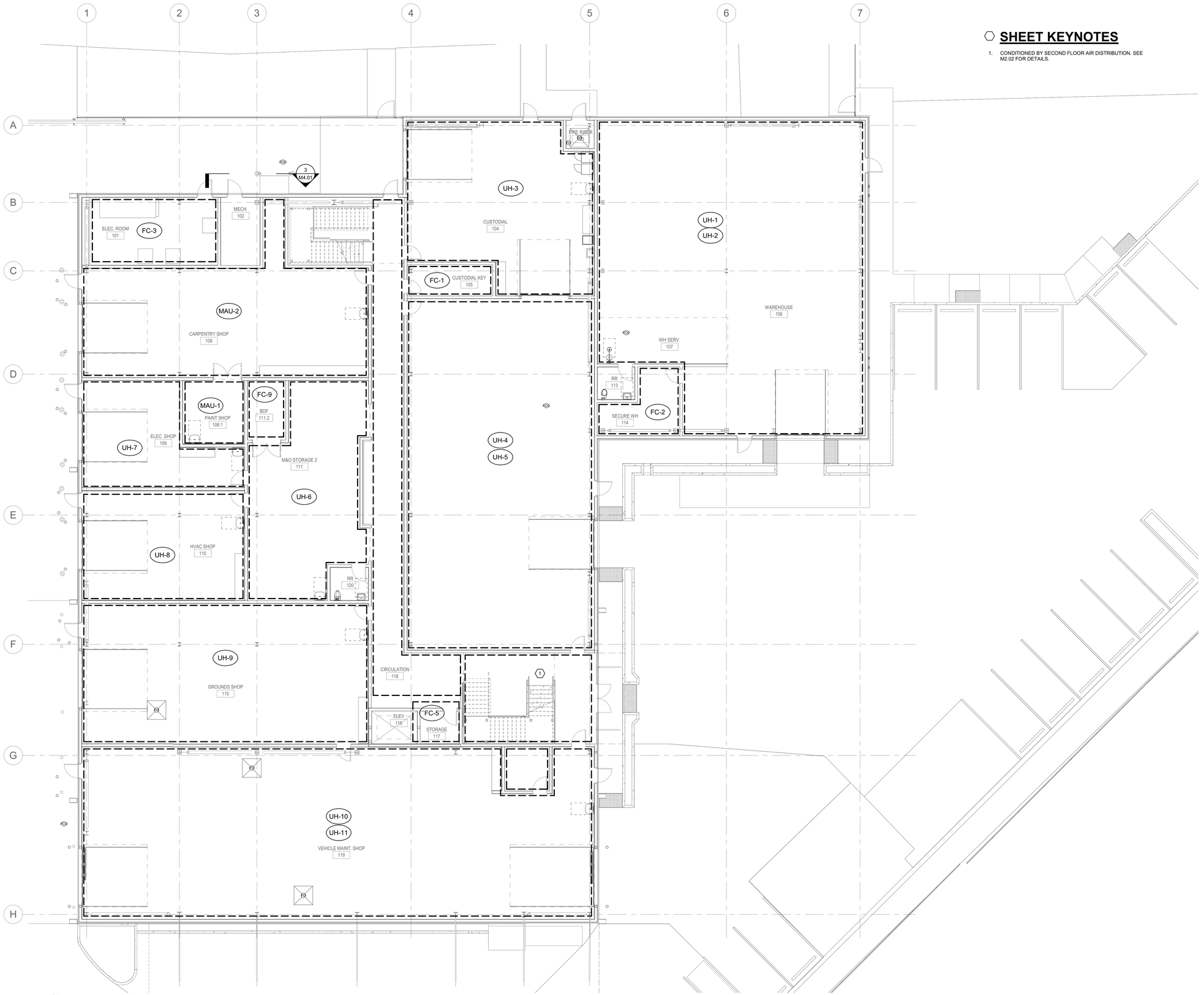

SHEET KEYNOTES

1. CONDITIONED BY SECOND FLOOR AIR DISTRIBUTION. SEE M2.02 FOR DETAILS.

1 GROUND FLOOR HVAC ZONES PLAN - MECHANICAL

0' 4' 8' 16'

1/8" = 1'-0"

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HAYWARD, CA 94545

plot date:
project number: 20-296
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GROUND FLOOR ZONING PLAN - MECHANICAL

M1.01

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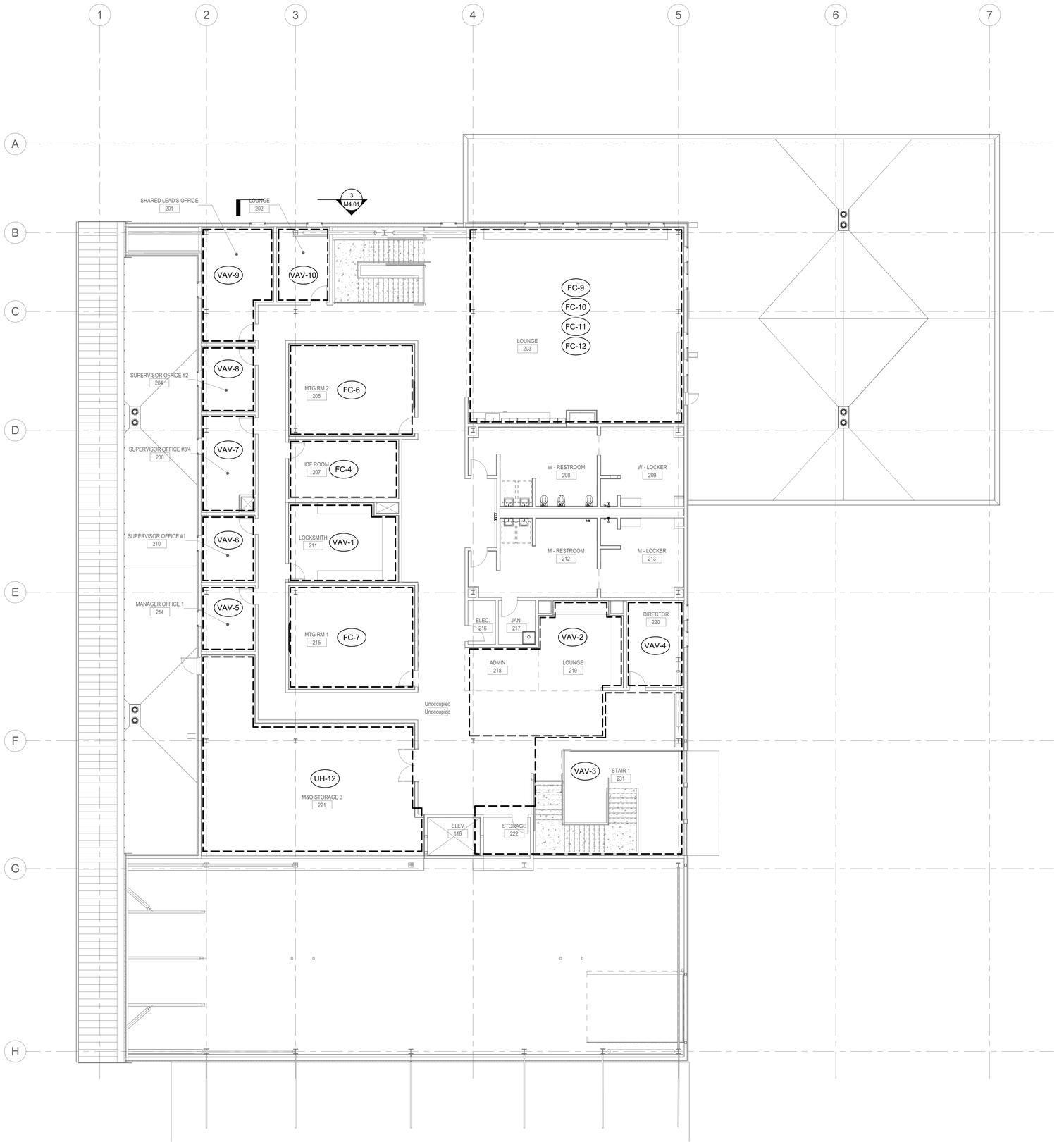

1 SECOND FLOOR HVAC ZONES PLAN

0' 4' 8' 16'

1/8" = 1'-0"

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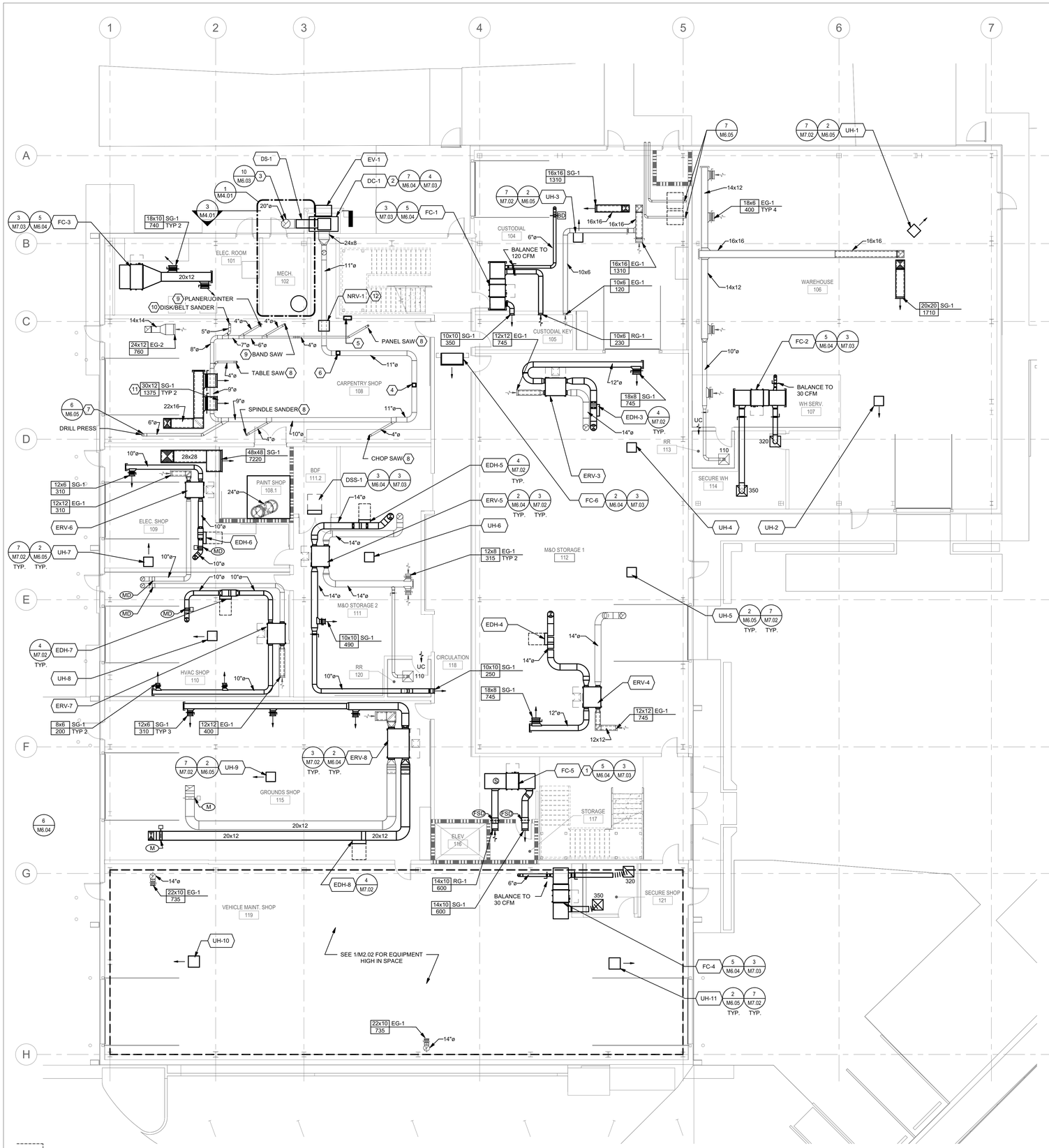
project number: 20-296
date: 12/11/2024

SECOND FLOOR ZONING PLAN - MECHANICAL

M1.02



GENERAL SHEET NOTES

A. SEE MECHANICAL HYDRONIC PLAN 1/M2.21 FOR SENSOR LOCATIONS.

DUST COLLECTION NOTES:

A. CONTRACTOR TO CONFIRM CARPENTRY SHOP EQUIPMENT LOCATIONS PRIOR TO INSTALLATION OF DUST COLLECTION SYSTEM. SEE ARCHITECTURAL PLANS FOR EQUIMENT LAYOUT. IF EQUIPMENT LAYOUT IS DIFFERENT FROM DESIGN SHOWN THE DUST COLLECTION SYSTEM MUST BE RE-EVALUATED. NOTIFY ENGINEER.

B. INSTALLATION TO MEET LOCAL AND NFPA CODES, THIS INCLUDES BUT IS NOT LIMITED TO NFPA 664 "PREVENTION OF FIRES AND EXPLOSIONS IN WOOD PROCESSING AND WOODWORKING FACILITIES" AND ASSOCIATED CODES REFERENCED WITHIN NFPA 664.

C. COORDINATE DUST COLLECTION SYSTEM WITH DUST HAZARD ANALYSIS.

D. TAB CONTRACTOR IS TO BALANCE THE DUST COLLECTION SYSTEM AND SET THE VFD AND UPPER BLAST GATES TO ACHIEVE DESIGN CFM. LOWER BLAST GATES, WHERE PROVIDED, ARE FOR USER USE AND WILL BE OPEN/CLOSE ONLY. BALANCE TO THE CFM SHOWN ON THE KEY NOTES.

E. DUCTS ARE TO BE CONSTRUCTED OF G90 SHEET METAL WITH MINIMUM NOMINAL THICKNESS OF 0.028" FOR DUCTS 8"Ø AND UNDER, AND 0.034" FOR DUCTS 9"Ø AND GREATER.

F. ELBOWS USED IN INSTALLATION SHALL BE A MINIMUM OF 2 GAUGES HEAVIER CONSTRUCTION THAN THE STRAIGHT PIPE OF EQUAL DIAMETER.

G. USE SMOOTH LONG SWEEP ELBOWS (R/D=2) FOR ALL DUCTS BETWEEN WOODWORKING EQUIPMENT AND DUST COLECTOR.

H. TRANSITIONS WITH TAPS TO BE TAPERED BODY WITH 30 DEG LATERALS (SINGLE OR DOUBLE) TYPE FITTINGS. TAPERED BODY TO BE NO GREATER THAN 30 DEG ANGLE.

I. FOR DUCTS CONVEYING WOOD DUST, MAINTAIN MINIMUM OF 1" CLEARANCE TO COMBUSTILBE MATERIALS

J. PROVIDE FLEXIBLE DUCT CONNECTIONS AT EACH EQUIPMENT DROP. TRANSITION TO FLEXIBLE DUCT BELOW BLAST GATE. FLEXIBLE DUCT CONNECTIONS SHALL BE WIRE WRAPPED HELIX FLEX HOSE FOR STATIC GROUNDING. MAXIMUM RESISTANCE OF FLEX DUCT IS TO BE 1X10^6 OHMS.

K. RIGID DUCTWORK AND ALL CONNECTIONS TO BE CONTINOUSLY CONDUCTIVE FOR STATIC GROUNDING. MAXIMUM RESISTANCE OF DUCTWORK IS TO BE 10 OHMS. COORDINATE WITH DIV 26 CONTRACTOR TO PROVIDE GROUNDING WIRE, LUGS, AND HARDWARE. PROVIDE DUST CONDUCTIVITY TESTING RESULTS PER NFPA 77 TO ENGINEER. DO NOT INCLUDE WOODWORKING EQUIPMENT IN TESTING PROCEDURE.

L. EQUIPMENT AND DUCTWORK TO BE CONTINUOUSLY CONDUCTIVE AND SHARE COMMON GROUNDING TO PREVENT THE GENERATION OF SPARKS. ALL EQUIPMENT AND DUCTS TO BE PERMINANTLY GROUNDED AND BONDED.

M. PROVIDE MANUAL BLAST GATES AT EACH EQUIPMENT DROP, LOCATED AT APPROX 5'-8" AFF. MANUAL BLAST GATES SHALL BE LINE SIZE, FULL PORT, METAL CONSTRUCTION, AND ALLOW FOR LOCKING THE GATE IN A PARTIALLY OPEN POSITION FOR BALANCING PURPOSES. BUTTERFLY DAMPERS ARE NOT PERMITTED.

N. DUCTS TO BE SUPPORTED AT MINIMUM OF EVERY 10 FT. HANGERS TO BE SIZED INCLUDING THE WEIGHT OF THE CONVEYED DUST AND WEIGHT OF ACTIVATED SPRINKLER SUPPRESSION.

O. PARTS OF FANS IN CONTACT WITH DUSTS SHALL BE OF NON-FERROUS OR NON-SPARKING MATERIALS, OR THEIR CASING IS TO BE LINED OR CONSTRUCTED OF SUCH MATERIALS. BEARINGS ARE NOT TO BE WITHIN AIR STREAM. ALL PARTS OF THE FAN ARE TO BE GROUNDED.

SHEET KEYNOTES

1. DUCTED FAN COIL UNIT LOCATED OUTSIDE OF ELEVATOR MACHINE ROOM WITH A TEMPERATURE SENSOR LOCATED INSIDE THE RETURN AIR DUCT. NO EQUIPMENT IS TO BE LOCATED WITHIN ELEVATOR MACHINE ROOM SPACE.
2. PROVIDE CONCRETE EQUIPMENT PAD TO EXTEND MINIMUM 6" BEYOND EDGE OF EQUIPMENT.
3. EXHAUST AIR DUCT RISER FOR DUST COLLECTOR, DC-1, UP TO ROOF. SEE ROOF PLAN FOR CONTINUATION.
4. DUAL-SENSOR SPARK DETECTION MOUNTED IN DUCTWORK. PROVIDE WITH ACCESS DOOR ON SIDE OF DUCTWORK FOR MAINTENANCE. INSTALL MINIMUM OF 3FT DOWNSTREAM FROM LAST BRANCH DUCT CONNECTION AND/OR ELBOW.
5. SPARK DETECTOR CONTROL PANEL/SYSTEM TESTING. PROVIDE WITH SIGNAGE INDICATING "TEST SPARK DETECTION SYSTEM WEEKLY". MAINTAIN TEST LOG NEXT TO CONTROL PANEL.
6. DUST COLLECTION DUCTWORK EXTINQUISHING SYSTEM. SYSTEM TO OPERATE IN CONJUNCTION WITH SPARK DETECTOR SYSTEM. CONNECT TO BUILDING FIRE PROTECTION PIPING. PROVIDE WITH INLET STRAINER FOR EXTENQUISHING SYSTEM INLET. COORDINATE WITH FIRE PROTECTION. MAINTAIN MINIMUM DISTANCE OF 5FT BETWEEN DISCHARGE OF SPRINKLER ASSEMBLY AND INLET OF NRV DOWNSTREAM. MAINTAIN MINIMUM OF 17.1 FT BETWEEN SPRINKLER ASSEMBLY AND DUAL-SENSOR SPARK DETECTOR UPSTREAM IN DUCTWORK.
7. PROVIDE WITH SIGNAGE INDICATING "WOOD DUST ONLY. OPEN SLIDE GATE DURING USE. CLOSE SLIDE GATE WHEN NOT IN USE."
8. BALANCE TO 350 CFM.
9. BALANCE TO 400 CFM.
10. BALANCE TO 550 CFM.
11. EXTEND DIFFUSERS PAST DUST COLLECTION DUCTWORK BELOW PRIOR TO TURNING DOWNWARDS PER DETAIL.
12. MAINTAIN MINIMUM OF 19.7 FT BETWEEN NRV AND INLET OF DUST COLLECTOR. INSTALL PER MANUFACTURER RECOMMENDATIONS. DISTANCE TO BE MEASURED AS PER THE CENTERLINE OF THE DUCTWORK.

DIFFUSER/GRILLES		
SUPPLY DIFFUSER		
TAG	NECK SIZE	CFM RANGE
CD-1	6"Ø	0-120
CD-1	8"Ø	121-210
CD-1	10"Ø	211-330
CD-1	12"Ø	331-400
CD-1	14"Ø	401-550
RETURN GRILLES		
TAG	NECK SIZE	CFM RANGE
CRG-1	8"Ø	0-210
CRG-1	10"Ø	211-370
CRG-1	12"Ø	375-600
CRG-1	14"Ø	601+
EXHAUST GRILLES		
TAG	NECK SIZE	CFM RANGE
CEG-1	8"Ø	0-210
CEG-1	10"Ø	211-370
CEG-1	12"Ø	375-600
CEG-1	14"Ø	601+

NOTE:
1. SEE DIFFUSER, REGISTER AND GRILLE SCHEDULE.
2. ALL DIFFUSERS, REGISTERS AND GRILLES TO BE TYPE CD-1, CRG-1 AND CEG-1 UNLESS NOTED OTHERWISE.
3. ALL BRANCH DUCTWORK TO DIFFUSERS, REGISTERS AND GRILLES TO BE SAME SIZE AS NECK SIZE UNLESS NOTED OTHERWISE.

1 GROUND FLOOR PLAN - MECHANICAL

0' 4' 8' 16'
1/8" = 1'-0"

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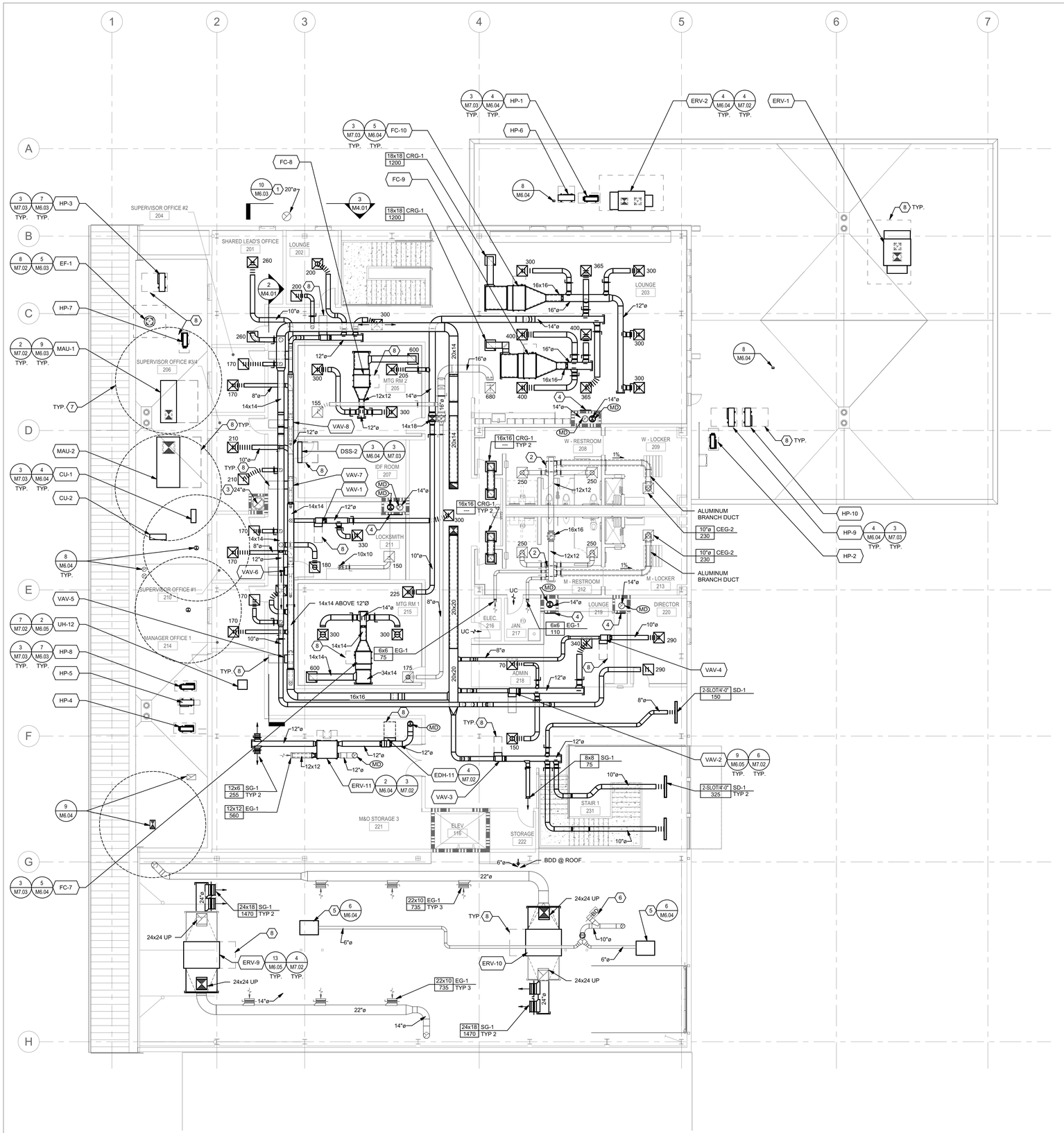
GROUND FLOOR PLAN - MECHANICAL

M2.01



1 SECOND FLOOR PLAN - MECHANICAL

0' 4' 8' 16'

1/8" = 1'-0"

GENERAL SHEET NOTES

A. DASHED LINES AROUND EQUIPMENT INDICATE MINIMUM EQUIPMENT CLEARANCES.

B. ENCLOSE REFRIGERANT PIPING INSTALLED ON ROOF(S) OR EXPOSED TO OUTDOOR ELEMENTS INSIDE A RIGID PVC OR METAL DUCT SYSTEM, RD OR PD SERIES, AS MANUFACTURED BY RECTORSEAL, OR EQUAL.

C. DO NOT LOCATE EQUIPMENT CLOSER THAN 10' FROM EDGE OF ROOF.

D. FINISH COAT PAINT DUCTWORK AND FLUES PROTRUDING ABOVE PARAPETS WITH COLOR AS SELECTED BY ARCHITECT.

E. PLACEMENT OF MECHANICAL EQUIPMENT SHOWN ON THIS DRAWING IS DIAGRAMMATIC. REVIEW ARCHITECTURAL DRAWINGS TO ASCERTAIN EXACT LOCATION OF ROOF CRICKETS. INSTALL EQUIPMENT TO CLEAR ALL ROOF CRICKET DRAINAGE VALLEYS AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND TO MAINTAIN REQUIRED AND RECOMMENDED CLEARANCES AROUND ALL EQUIPMENT.

F. FOR ROOF MOUNTED EQUIPMENT MAINTAIN 10'-0" CLEARANCE FROM ALL OUTSIDE AIR INTAKES TO ANY ADJACENT FLUE VENT, EXHAUST FAN OUTLET OR PLUMBING VENT. EXCEPTION: WHERE OUTSIDE AIR INTAKES ARE LOCATED AT MINIMUM OF 6'-0" BELOW ADJACENT FAN OUTLET OR PLUMBING VENT.

G. INSTALL ROOF MOUNTED PIPING AND DUCTWORK WITH A MINIMUM OF 24" FROM UNDERSIDE OF PIPING, DUCTWORK, AND THEIR SUPPORT SYSTEM TO ABOVE FINISHED ROOF.

H. PROVIDE 3" LINING ON EXHAUST AIR DUCTWORK WHEN UTILIZED IN A HEAT RECOVERY SYSTEM, SUPPLY AIR, AND RETURN AIR DUCTWORK.

I. SEE ARCHITECTURAL DRAWINGS FOR WATER PROOFING DETAILS.

SHEET KEYNOTES

1. EXHAUST AIR DUCT RISER SERVING DUST COLLECTOR, DC-1.
2. 24"x24" CEILING ACCESS PANEL. COORDINATE LOCATION WITH ARCHITECTURAL RCP AND LIGHTING PLAN. PLACE DAMPERS WITHIN REACH OF CEILING ACCESS PANEL.
3. EXHAUST AIR UP FROM GROUND FLOOR PAINT HOOD. STAINLESS STEEL WELDED DUCTWORK WITH 1-HOUR FIRE WRAP.
4. RATED ACCESS DOOR ABOVE CEILING FOR ACCESS TO MOTORIZED ISOLATION DAMPERS. RATING OF ACCESS DOOR TO MATCH RATING OF WALL.
5. VEHICLE EXHAUST REEL, SIMILAR TO NEDERMAN EXHAUST HOSE REEL 865 - SPRING RECOILED WITH 25' FT / 6"Ø HOSE. FIELD COORDINATE INSTALLATION OF HOSE REEL STOP. EXHAUST HOSE REELS TO HAVE INTERNAL DAMPERS.
6. RELIEF AIR DAMPER FOR VEHICLE EXHAUST FAN. SET COUNTERWEIGHT SO RELIEF DAMPER OPENS WHEN INTERNAL DAMPER TO VEHICLE EXHAUST REEL CLOSES. RELIEF AIR DAMPER TO BE CLOSED UNDER NORMAL OPERATION. DAMPER BETWEEN INLETS OF VEHICLE EXHAUST AND DUCT PRESSURE SENSOR.
7. MAINTAIN CLEARANCE TO OUTDOOR AIR INTAKE FROM EXHAUST AND PLUMBING VENTS. FIELD COORDINATE PLUMBING VENT WITH DIV 22 CONTRACTOR.
8. MAINTAIN CLEARANCE TO EQUIPMENT.

DIFFUSER/GRILLES		
SUPPLY DIFFUSER		
TAG	NECK SIZE	CFM RANGE
CD-1	6"Ø	0-120
CD-1	8"Ø	121-210
CD-1	10"Ø	211-330
CD-1	12"Ø	331-400
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TAG	NECK SIZE	CFM RANGE
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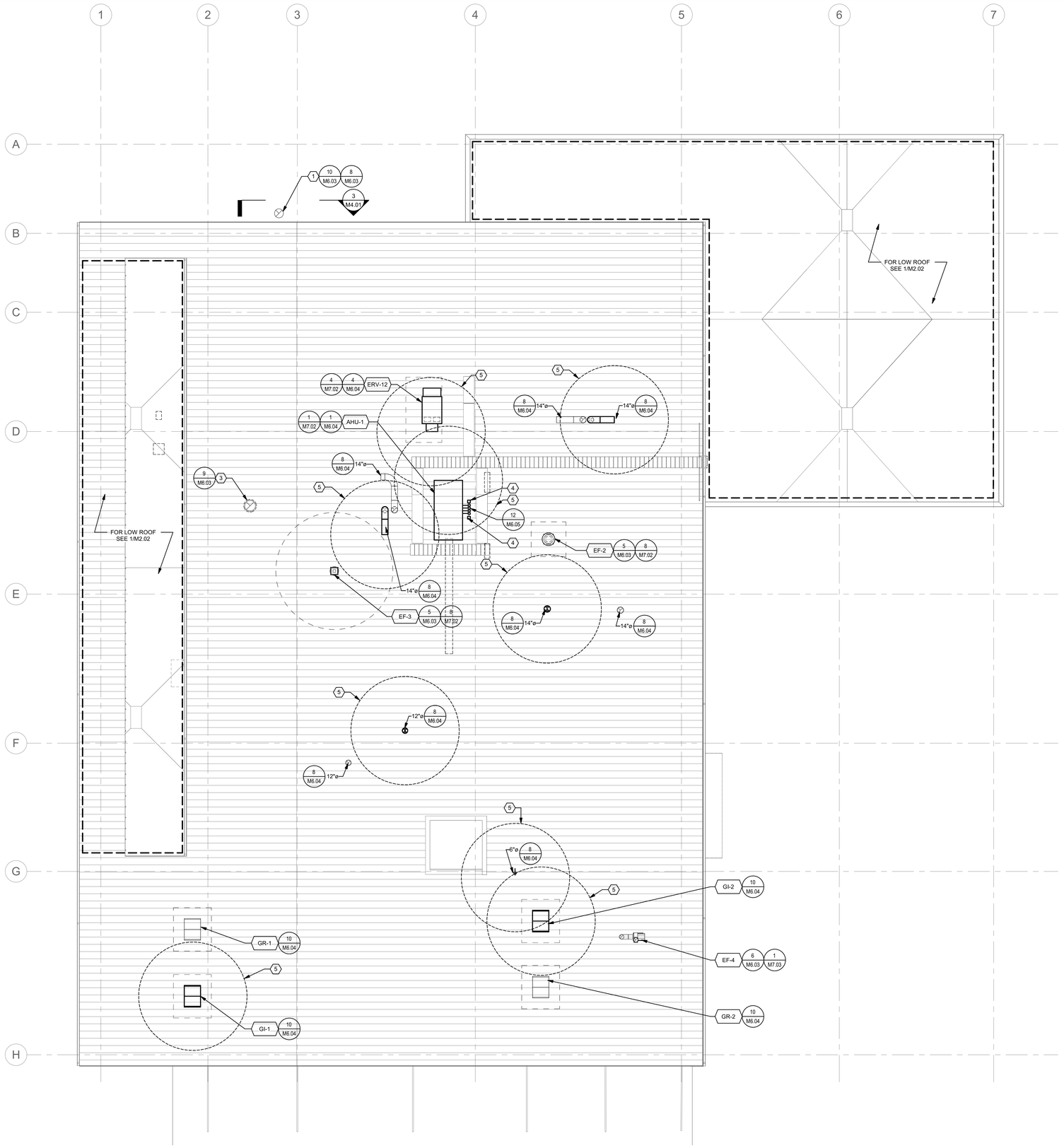
SECOND FLOOR PLAN - MECHANICAL

M2.02



1 ROOF PLAN - MECHANICAL

0' 4' 8' 16'

1/8" = 1'-0"

GENERAL SHEET NOTES

A. DASHED LINES AROUND EQUIPMENT INDICATE MINIMUM EQUIPMENT CLEARANCES.

B. ENCLOSE REFRIGERANT PIPING INSTALLED ON ROOF(S) OR EXPOSED TO OUTDOOR ELEMENTS INSIDE A RIGID PVC OR METAL DUCT SYSTEM, RD OR PD SERIES, AS MANUFACTURED BY RECTORSEAL, OR EQUAL.

C. DO NOT LOCATE EQUIPMENT CLOSER THAN 10' FROM EDGE OF ROOF.

D. FINISH COAT PAINT DUCTWORK AND FLUES PROTRUDING ABOVE PARAPETS WITH COLOR AS SELECTED BY ARCHITECT.

E. PLACEMENT OF MECHANICAL EQUIPMENT SHOWN ON THIS DRAWING IS DIAGRAMMATIC. REVIEW ARCHITECTURAL DRAWINGS TO ASCERTAIN EXACT LOCATION OF ROOF CRICKETS. INSTALL EQUIPMENT TO CLEAR ALL ROOF CRICKET DRAINAGE VALLEYS AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND TO MAINTAIN REQUIRED AND RECOMMENDED CLEARANCES AROUND ALL EQUIPMENT.

F. FOR ROOF MOUNTED EQUIPMENT MAINTAIN 10'-0" CLEARANCE FROM ALL OUTSIDE AIR INTAKES TO ANY ADJACENT FLUE VENT, EXHAUST FAN OUTLET OR PLUMBING VENT, EXCEPTION: WHERE OUTSIDE AIR INTAKES ARE LOCATED AT MINIMUM OF 6'-0" BELOW ADJACENT FAN OUTLET OR PLUMBING VENT.

G. INSTALL ROOF MOUNTED PIPING AND DUCTWORK WITH A MINIMUM OF 24" FROM UNDERSIDE OF PIPING, DUCTWORK, AND THEIR SUPPORT SYSTEM TO ABOVE FINISHED ROOF.

H. PROVIDE 3" LINING ON EXHAUST AIR DUCTWORK WHEN UTILIZED IN A HEAT RECOVERY SYSTEM, SUPPLY AIR, AND RETURN AIR DUCTWORK.

I. SEE ARCHITECTURAL DRAWINGS FOR WATER PROOFING DETAILS.

SHEET KEYNOTES

1. EXHAUST AIR DUCT RISER SERVING DUST COLLECTOR, DC-1. EXHAUST DUCT TO EXTEND MINIMUM 6'-0" FROM ROOF AND ANY EXTERIOR WALLS.
2. EXHAUST AIR STUB OUT FOR RANGE HOOD PROVIDED BY OTHERS. MAINTAIN MINIMUM 10'-0" CLEARANCE FROM ALL OUTSIDE AIR INTAKE AND 3'-0" CLEARANC FROM ALL OTHER OPENINGS INTO BUILDING.
3. EXHAUST AIR STUB OUT FOR PAINT HOOD PROVIDED BY OTHERS. MAINTAIN MINIMUM 10'-0" CLEARANCE FROM ALL OUTSIDE AIR INTAKE AND 3'-0" CLEARANC FROM ALL OTHER OPENINGS INTO BUILDING.
4. PROVIDE HEAT TRACE ON EXTERIOR HYDRONIC PIPING. SIMILAR CHROMALOX CPR SELF-REGULATING HEAT TRACE. 120V/1PH, 3W/LF
5. OUTDOOR AIR INTAKE CLEARANCE MINIMUM DISTANCE TO PLUMBING VENTS AND MECHANICAL EXHAUST. FIELD COORDINATE AS NECESSARY.

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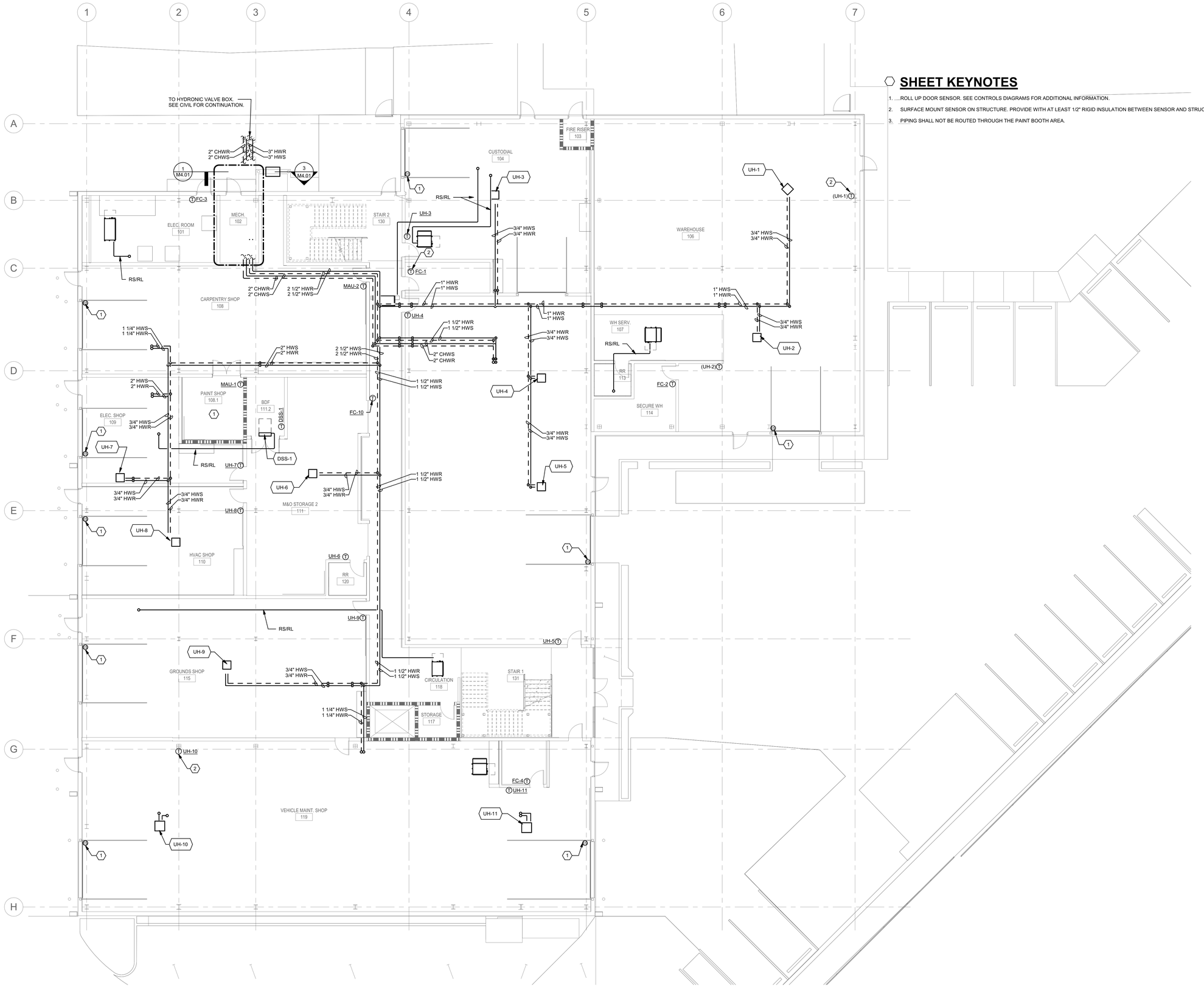
ROOF PLAN - MECHANICAL

M2.03



SHEET KEYNOTES

1. ROLL UP DOOR SENSOR. SEE CONTROLS DIAGRAMS FOR ADDITIONAL INFORMATION.
2. SURFACE MOUNT SENSOR ON STRUCTURE. PROVIDE WITH AT LEAST 1/2" RIGID INSULATION BETWEEN SENSOR AND STRUCTURE.
3. PIPING SHALL NOT BE ROUTED THROUGH THE PAINT BOOTH AREA.

1 GROUND FLOOR PLAN - MECHANICAL

0' 4' 8' 16'
1/8" = 1'-0"

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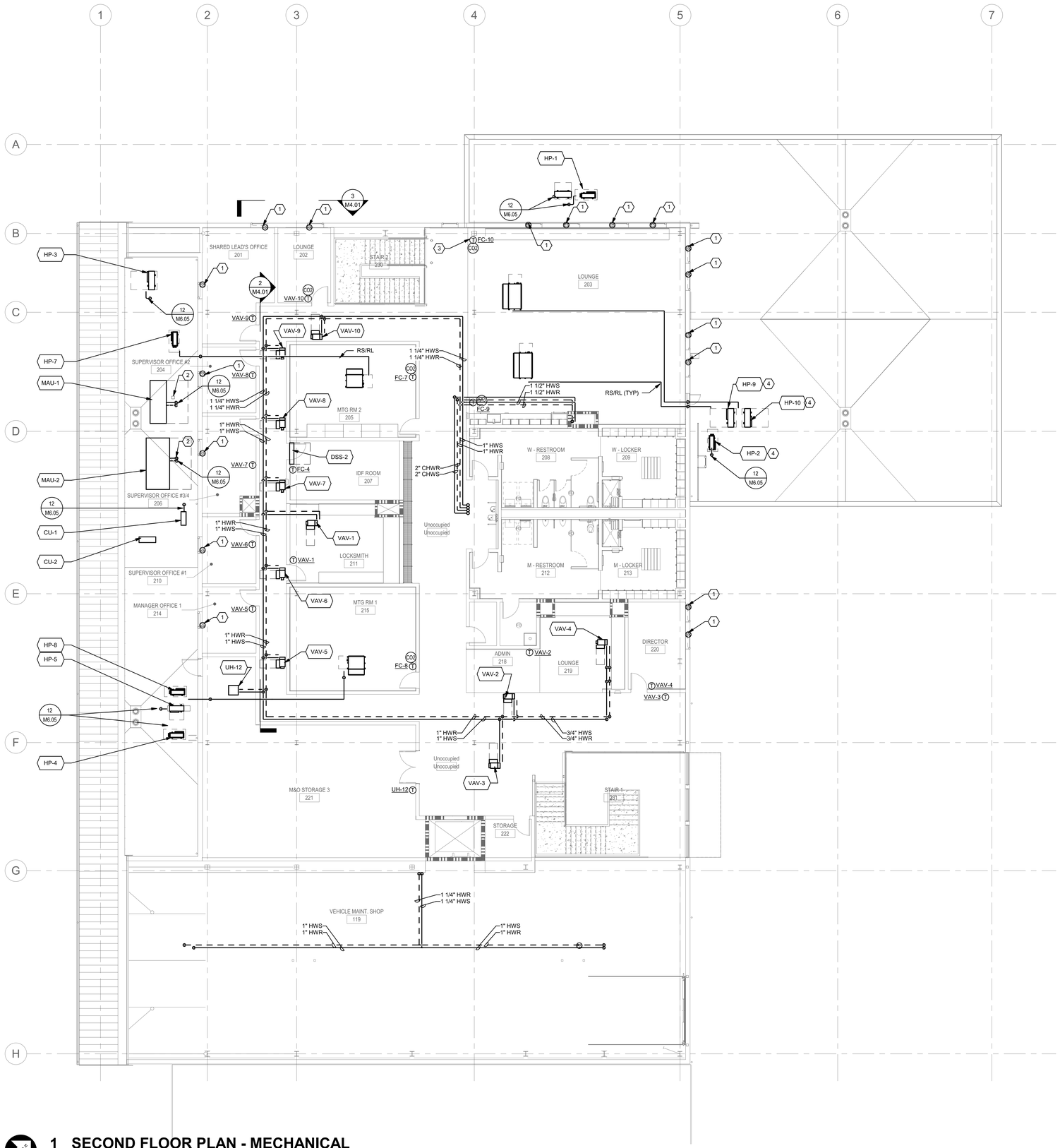
GROUND FLOOR PIPING PLAN - MECHANICAL

M2.21



1 SECOND FLOOR PLAN - MECHANICAL

0' 4' 8' 16'

1/8" = 1'-0"

GENERAL SHEET NOTES

A. DASHED LINES AROUND EQUIPMENT INDICATE MINIMUM EQUIPMENT CLEARANCES.

B. ENCLOSE REFRIGERANT PIPING INSTALLED ON ROOF(S) OR EXPOSED TO OUTDOOR ELEMENTS INSIDE A RIGID PVC OR METAL DUCT SYSTEM, RD OR PD SERIES, AS MANUFACTURED BY RECTORSEAL, OR EQUAL.

C. DO NOT LOCATE EQUIPMENT CLOSER THAN 10' FROM EDGE OF ROOF.

D. FINISH COAT PAINT DUCTWORK AND FLUES PROTRUDING ABOVE PARAPETS WITH COLOR AS SELECTED BY ARCHITECT.

E. PLACEMENT OF MECHANICAL EQUIPMENT SHOWN ON THIS DRAWING IS DIAGRAMMATIC. REVIEW ARCHITECTURAL DRAWINGS TO ASCERTAIN EXACT LOCATION OF ROOF CRICKETS. INSTALL EQUIPMENT TO CLEAR ALL ROOF CRICKET DRAINAGE VALLEYS AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND TO MAINTAIN REQUIRED AND RECOMMENDED CLEARANCES AROUND ALL EQUIPMENT.

F. FOR ROOF MOUNTED EQUIPMENT MAINTAIN 10'-0" CLEARANCE FROM ALL OUTSIDE AIR INTAKES TO ANY ADJACENT FLUE VENT, EXHAUST FAN OUTLET OR PLUMBING VENT. EXCEPTION: WHERE OUTSIDE AIR INTAKES ARE LOCATED AT MINIMUM OF 6'-0" BELOW ADJACENT FAN OUTLET OR PLUMBING VENT.

G. INSTALL ROOF MOUNTED PIPING AND DUCTWORK WITH A MINIMUM OF 24" FROM UNDERSIDE OF PIPING, DUCTWORK, AND THEIR SUPPORT SYSTEM TO ABOVE FINISHED ROOF.

H. PROVIDE 3" LINING ON EXHAUST AIR DUCTWORK WHEN UTILIZED IN A HEAT RECOVERY SYSTEM, SUPPLY AIR, AND RETURN AIR DUCTWORK.

I. SEE ARCHITECTURAL DRAWINGS FOR WATER PROOFING DETAILS.

SHEET KEYNOTES

1. WINDOW SENSOR. SEE VAV TERMINAL UNIT CONTROLS FOR ADDITIONAL INFORMATION.
2. PROVIDE HEAT TRACE ON EXTERIOR HYDRONIC PIPING. SIMILAR CHROMALOX CPR SELF-REGULATING HEAT TRACE. 120V/1PH, 3W/LF.
3. SURFACE MOUNT SENSOR ON STRUCTURE. PROVIDE WITH AT LEAST 1/2" RIGID INSULATION BETWEEN SENSOR AND STRUCTURE.
4. PLACE UNIT SO NOT TO BE UNDER ROOF OVERHANG ABOVE. TOP CONDENSER FAN TO BE UNOBSTRUCTED.

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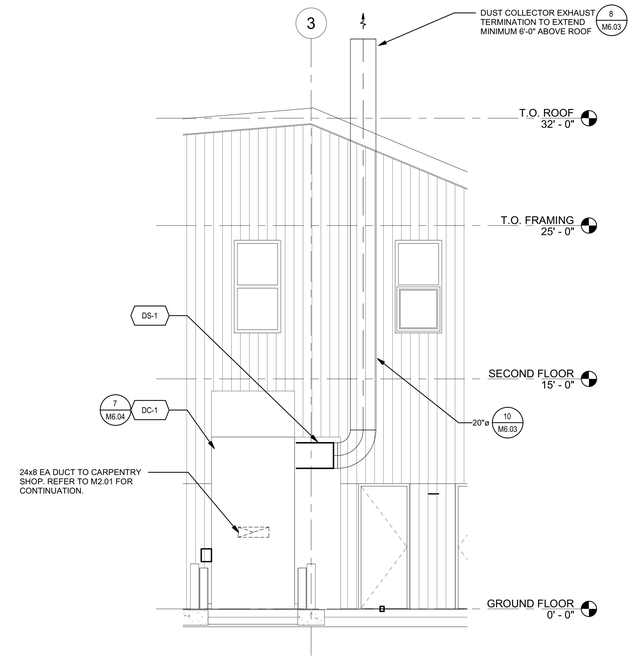
SECOND FLOOR PIPING PLAN - MECHANICAL

M2.22



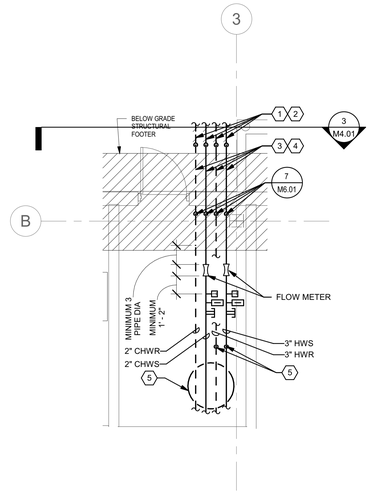
3 DUST COLLECTOR ELEVATION VIEW

0' 2' 4' 8'

1/4" = 1'-0"

SHEET KEYNOTES

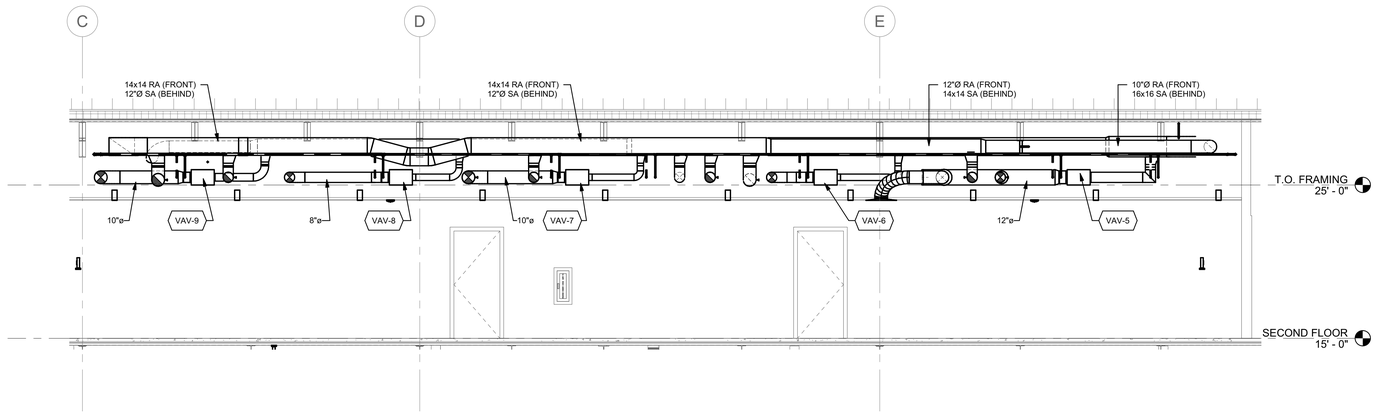
1. COORDINATE CONTINUATION OF PIPING WITH CIVIL DRAWINGS/CONTRACTOR.
2. SEE UNDERGROUND PIPING DETAILS ON M6.01 FOR ADDITIONAL INFORMATION.
3. ABOVE GROUND HYDRONIC PIPING. DO NOT ROUTE HYDRONIC PIPING THROUGH STRUCTURAL FOOTER. SEE STRUCTURAL DRAWINGS FOR LOCATION OF FOOTER. BOTTOM OF PIPING INSULATION TO BE 12 ABOVE GRADE.
4. PROVIDE HEAT TRACE ON EXTERIOR HYDRONIC PIPING. SIMILAR CHROMALOX CPR SELF-REGULATING HEAT TRACE. 120V/1PH, 3W/LF.
5. DOMESTIC WATER HEATER WITH INTEGRAL HEAT EXCHANGER, BY DIV 22. SEE DIV 22 DRAWINGS FOR ADDITIONAL INFORMATION.
6. 2" HWS/R PIPING DOWN TO INLETS OF DOMESTIC WATER HEATER. PROVIDE ISOLATION VALVES FOR EACH BRANCH LINE. PROVIDE INLET STRAINR ON HWS. PROVIDE PRESSURE INDEPENDENT BALANCING VALVE ON HWR AND BALANCE TO 45 GPM.



1 GROUND LEVEL - MECHANICAL ROOM ENLARGED PLAN

0' 2' 4' 8'

1/4" = 1'-0"



2 SECOND LEVEL CORRIDOR - MECHANICAL SECTION

0' 2' 4' 8'

1/4" = 1'-0"

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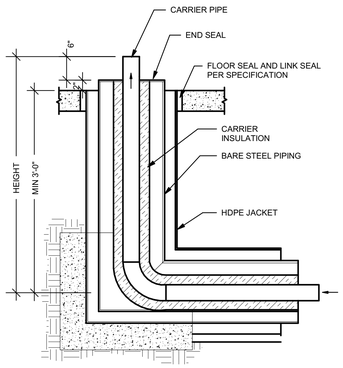
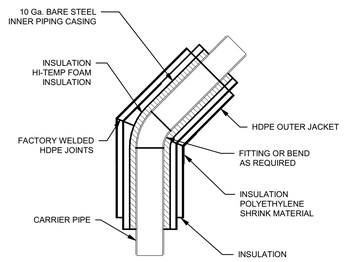
SECTIONS & ENLARGED PLANS - MECHANICAL

M4.01



1 TYPICAL ENTRY BUILDING DETAIL

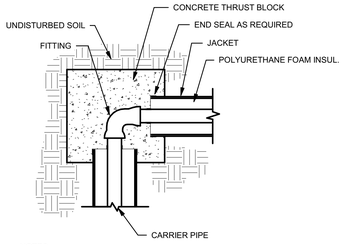
NO SCALE



NOTES:
1. PROVIDE WHERE ELBOWS OCCUR IN UNDERGROUND PIPING ROUTE.

2 UNDERGROUND PIPING ELBOW DETAIL

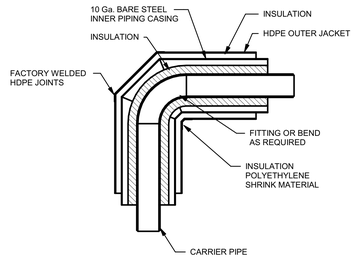
NO SCALE



NOTES:
1. PROVIDE WHERE REQUIRED IN UNDERGROUND PIPING ROUTE.

3 THRUST BLOCK DETAIL

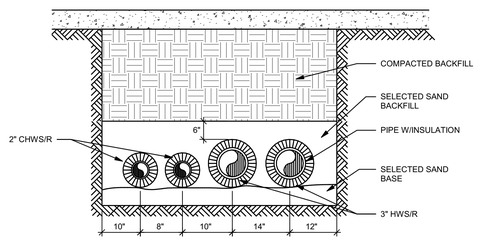
NO SCALE



NOTES:
1. PROVIDE WHERE REQUIRED IN UNDERGROUND PIPING ROUTE.

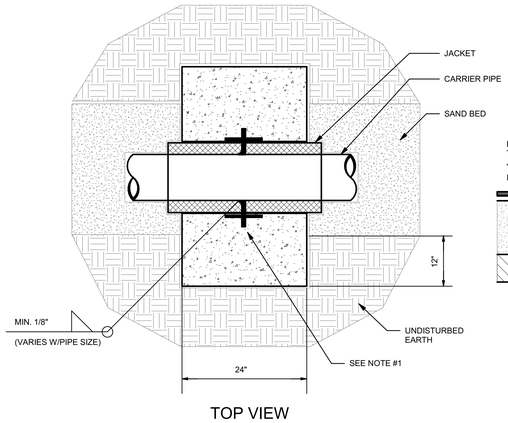
4 UNDERGROUND PIPING ELBOW DETAIL

NO SCALE

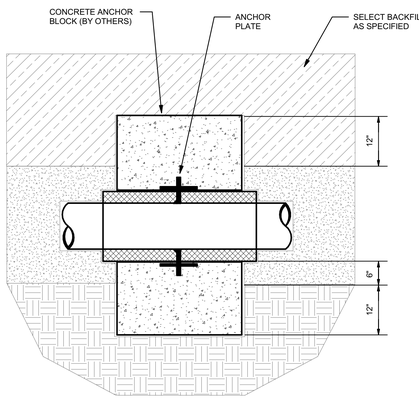


5 UNDERGROUND PIPE

NO SCALE



TOP VIEW



TOP VIEW

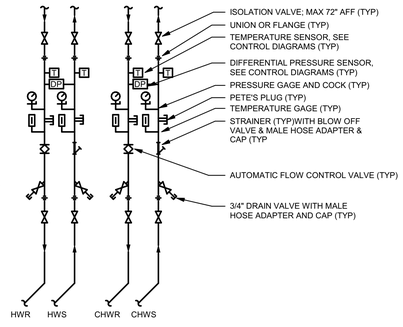
6 PIPE ANCHORAGE DETAIL

NO SCALE

STEEL PIPE ANCHOR SPECIFICATIONS

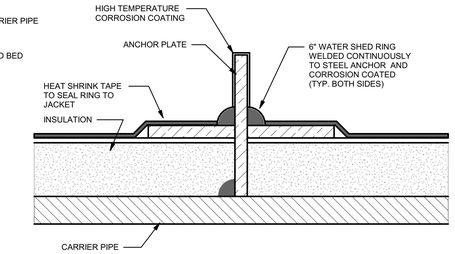
1. STEEL ANCHOR PLATE AND WELD RINGS FURNISHED BY THERMACOR. ANCHOR PLATE SHALL MEET ASTM A36 AND ON ALL SHALL BE 1/2" THICK. ANCHOR PLATE SHALL EXTEND 2-1/2" BEYOND THE CASING DIAMETER ON ALL SIDES. ANCHOR PLATE SHALL BE CORROSION COATED WITH A HIGH TEMPERATURE COATING MATERIAL AFTER WATERSHED RINGS HAVE BEEN SEALED TO CASING BY HEAT SHRINK TAPE.
2. ANCHOR ASSEMBLY SHALL BE POURED IN A CONCRETE BLOCK BY THE CONTRACTOR IN THE FIELD. (MINMUM 3000 psi) GENERALLY, THE ANCHOR BLOCK EXTENDS A MINIMUM OF 12" IN ALL DIRECTIONS BEYOND THE ANCHOR O.D. AND HAS AN OVERALL LENGTH OG 24". THE JOB SITE CONDITIONS SHALL BE THE FINAL DETERMINING FACTOR FOR ANCHOR BLOCKS SIZING.
3. DEPENDING ON ANCHOR BLOCK SIZE, STEEL REINFORCEMENTBARS MAY BE REQUIRED.
4. ANCHOR FORCES TO BE DETERMINED BY MANUFACTURER AND STRUCTURAL ENGINEER PRIOR TO PIPE INSTALLATION IN TRENCH FOR ANCHOR BLOCK SIZING AND DESIGN.

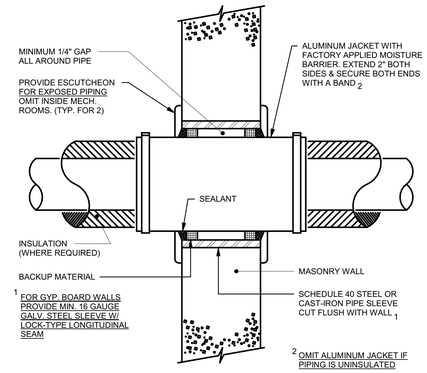
NOTE:
1. RISER TO BE LOCATED IN SUCH A MANNER TO PROVIDE ADEQUATE ROOM AND ACCESS TO READ ALL GAGES, OPERATE ALL VALVES, AND REMOVE SECTIONS BETWEEN UNIONS/FLANGES.
2. MAXIMUM HEIGHT TO RISER ISOLATION VALVE SHALL NOT EXCEED 72" ABOVE FINISHED FLOOR.



7 CHILLED AND HEATING WATER RISER PIPING DIAGRAM

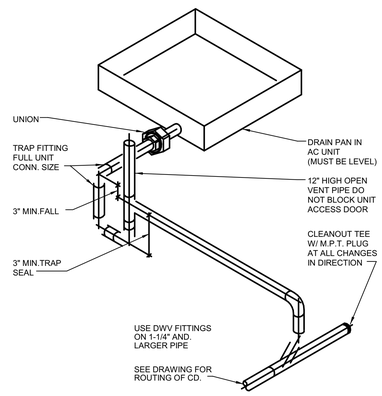
NO SCALE





8 WALL PIPE PENETRATION DETAIL (NOT RATED)

NO SCALE



9 CONDENSATE DRAIN

NO SCALE

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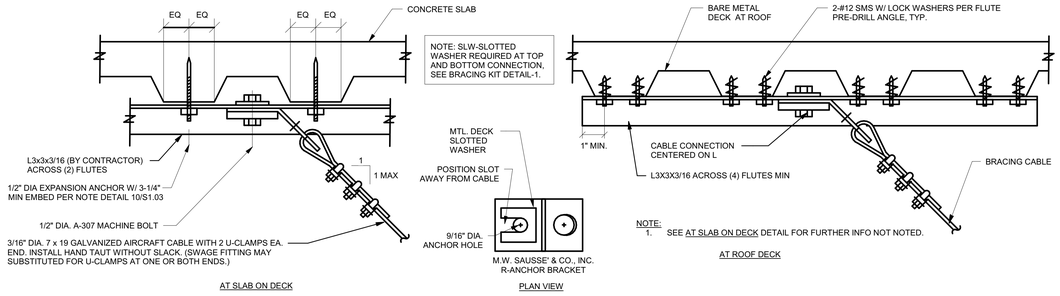
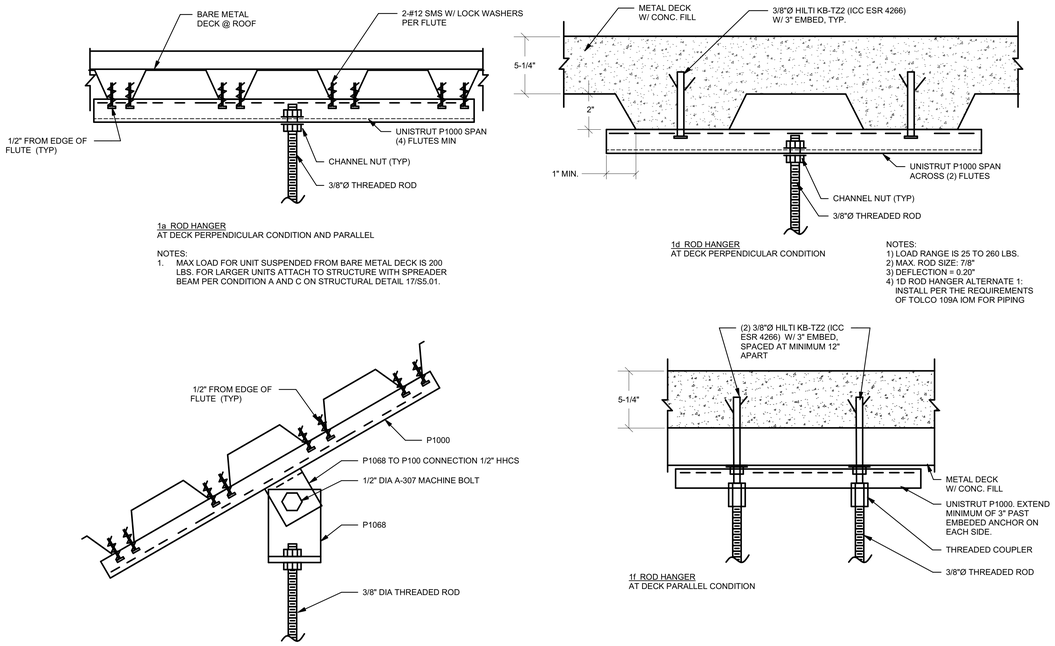
DETAILS - MECHANICAL

M6.01



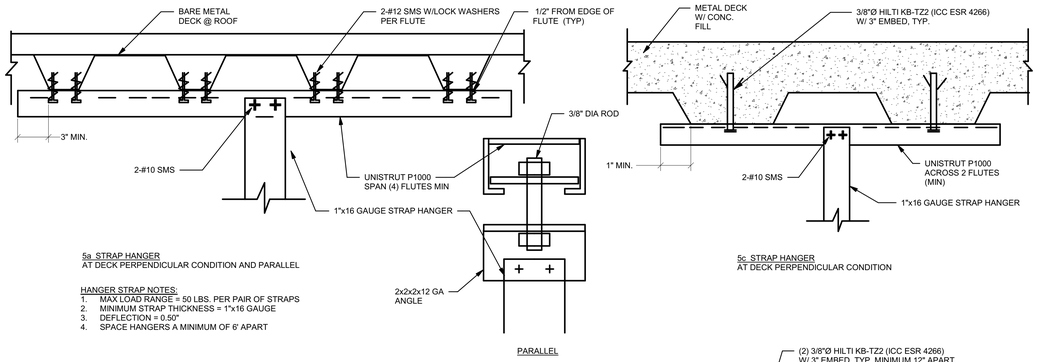
1 BRACE CABLE CONNECTION TO DECK DETAIL

NO SCALE



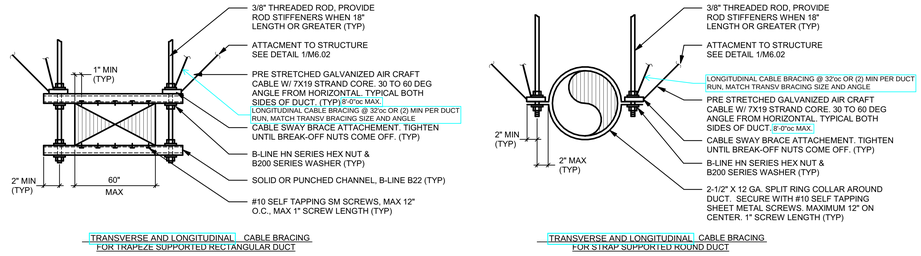
2 ROD HANGER DETAIL

NO SCALE



3 STRAP HANGER DETAIL

NO SCALE



NOTES:
1. REFER TO SPECIFICATIONS FOR HANGER SPACINGS.
2. ATTACHMENTS TO OVERHEAD STRUCTURE SHALL BE MADE IN ACCORDANCE WITH STRUCTURAL ENGINEERS REQUIREMENTS AND WEIGHT LIMITATIONS. ALL ATTACHMENT METHODS TO STRUCTURE SHALL BE SUBMITTED TO ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW.
3. PROVIDE SWAY & SEISMIC BRACING PER OPM 0052-13.
4. HANGER MATERIAL SUPPORTING FLEXIBLE DUCT SHALL IN NO CASE BE LESS THAN 1 1/2 INCHES WIDE. FLEXIBLE DUCT SHALL BE SUPPORTED PER MANUFACTURER'S RECOMMENDED MATERIALS, BUT AT NO GREATER DISTANCE THAN 4 FEET MAX. PERMISSIBLE SAG IS MAX. 1/2 INCHES PER FOOT OF SPACING BETWEEN SUPPORTS.
5. REFER TO 2/M6.02 FOR HANGER ROD ATTACHMENT.
6. REFER TO 3/M6.02 FOR HANGER STRAP ATTACHMENT.

4 DUCT SUPPORT DETAIL

NO SCALE

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2	2024.12.17	DSA PC2
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	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

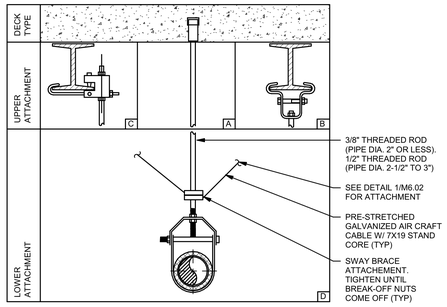
REGISTERED PROFESSIONAL ENGINEER — MARK VELASCO PALMA — No. M34857 Exp: 06/30/26 — MECHANICAL — STATE OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD,
HAYWARD, CA 94545

plot date:
project number: 20-296
date: 12/11/2024

DETAILS - MECHANICAL

M6.02

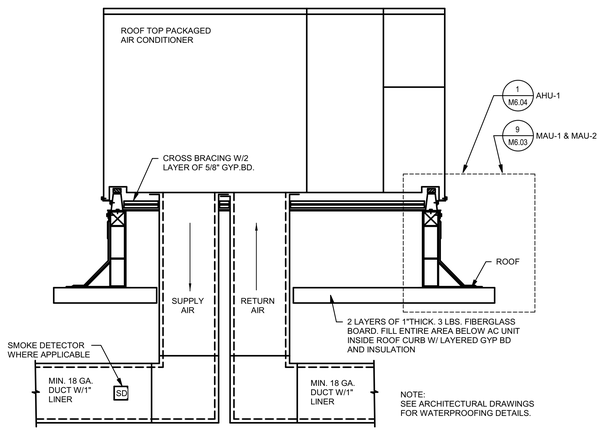


NOTES:

1. PIPE HANGERS SHOWN ARE TYPICAL OTHER ATTACHMENTS. COMPONENTS MAY BE REQUIRED TO MEET EXACT CONDITIONS.
2. COMPONENTS MAY BE INTERCHANED AS REQUIRED TO MEET JOB CONDITIONS AND REQUIREMENTS.
3. SIZE ALL COMPONENTS TO SUPPORT LOAD CARRIED PLUS A SURCHARGE OF 50%.
4. PROVIDE ROD STIFFENER WHEN THREADED ROD LENGTH 18" OR GREATER.
5. COMPONENTS:
   A. DRILLED IN PLACE CONCRETE EXPANSION ANCHOR. REFER TO STRUCTURAL FOR LIMITATIONS.
   B. I-BEAM CLAMP. USE FOR ATTACHMENT TO WIDE FLANGE BEAMS
   C. BEAM CLAMP WITH SAFETY ROD. USE FOR ATTACHMENT TO WIDE FLANGE BEAMS.
   D. CLEVIS HANGER. USE FOR BARE OR INSULATED PIPING.
6. PROVIDE MAXIMUM 27 FT SPACING OF TRANSVERSE CABLE BRACING PER OPM-0052-13. MAX WEIGHT PER/FT OF BRACED PIPING IS NOT TO EXCEED 18.1 LBS.

1 PIPE HANGING DETAIL

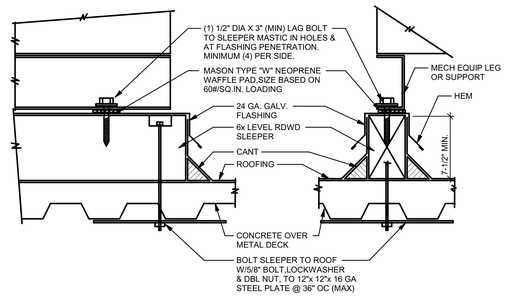
NO SCALE



NOTES:
1. FOR SPRING ISOLATION CURB MOUNTING TO ROOF STRUCTURE SEE THE DETAIL APPLICABLE FOR THE ROOF TYPE.

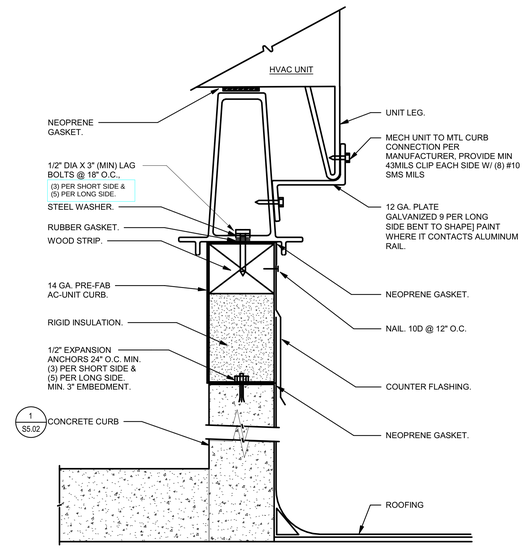
4 ROOFTOP UNIT MOUNTING & DUCT THRU ROOF

NO SCALE



7 EQUIPMENT MOUNTED ON CONCRETE OVER METAL DECK (HP-3,4,5,7,8)

NO SCALE



9 AC UNIT CURB DETAIL (MAU-1,2)

NO SCALE

NOTE: IF PIPE IS SUSPENDED FROM OR DIRECTLY ATTACHED TO STRUCTURE OR OTHER BUILDING ELEMENTS, USE 1/2" THICK, 40-DUROMETER NEOPRENE AS SLEEVE BETWEEN PIPE AND PIPE COLLAR.

2 PIPE ISOLATION FLOOR PENETRATION

NO SCALE

NOTES:
1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

5 ROOF EXHAUST FAN INSTALLATION DETAIL

NO SCALE

8 DUST COLLECTOR AND VEHICLE EXHAUST FAN EXHAUST STACK

NO SCALE

NOTES:

1. TYPICAL SUPPORT AT EACH FLOOR.
2. FOR MULTIPLE PIPES INSTALL CHANNELS IN PARALLEL AND PROVIDE ADDITIONAL FRAMING. SIZES OF FRAMING MEMBERS AS REQUIRED TO SUPPORT TOTAL WEIGHT OF PIPE.
3. INSULATE CLAMP AT CHILLED WATER PIPE ONLY.

3 PIPE RISER SUPPORT

NO SCALE

NOTE: SIZE ISOLATORS TO SUPPORT WEIGHT OF FAN + STACK.

6 EXHAUST FAN MOUNTING (EF-4)

NO SCALE

NOTES:
1. SEE DETAIL 1/A8.01 FOR WALL CONSTRUCTION.
2. PROVIDE SUPPORT AT BOTTOM OF DUCTWORK TO SUPPORT DUCT GRAVITY LOADS. ANCHOR BASE PER DETAIL 7/M6.03

10 VERTICAL EXHAUST DUCT SUPPORT

NO SCALE

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	2022.02.28	SCHEMATIC DESIGN

REGISTERED PROFESSIONAL ENGINEER SHAWN M. VELASCO PLAN No. M34857 Exp: 06/30/26 MECHANICAL STATE OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

plot date:
project number: 20-296
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DETAILS - MECHANICAL

M6.03

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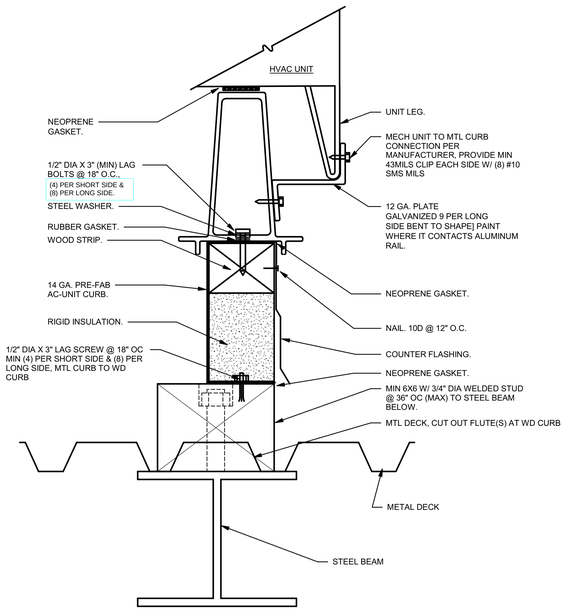
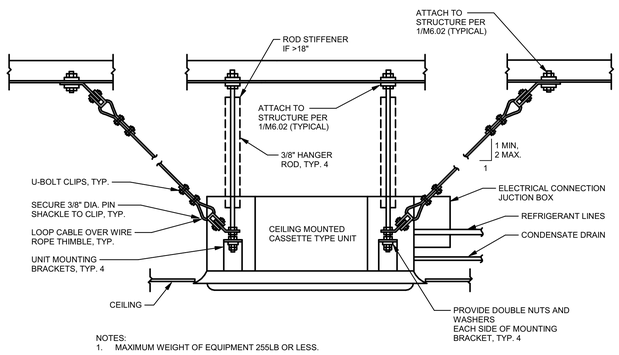


NOTE:
1. WOOD SHALL BE PROTECTED FROM WEATHER BY ROOFING. IF LEFT EXPOSED, WOOD SHALL BE PTDF
2. REFER TO ARCHITECTURAL DRAWINGS FOR WEATHER SEALING OF ROOF.
3. SEE DETAIL 4/S1.04 FOR ADDITIONAL INFORMATION.
4. MAX WEIGHT OF EQUIPMENT TO BE 2200#

1 AC UNIT CURB DETAIL (AHU-1)

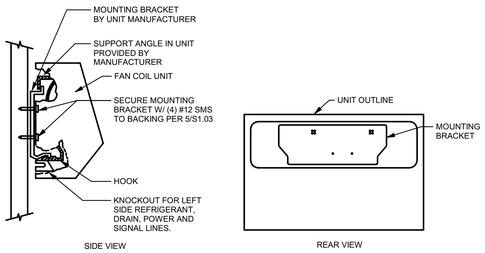
NO SCALE



NOTES:
1. MAXIMUM WEIGHT OF EQUIPMENT 255LB OR LESS.

2 CEILING SUSPENDED TYPE FCU MOUNTING DETAIL (FC-6)

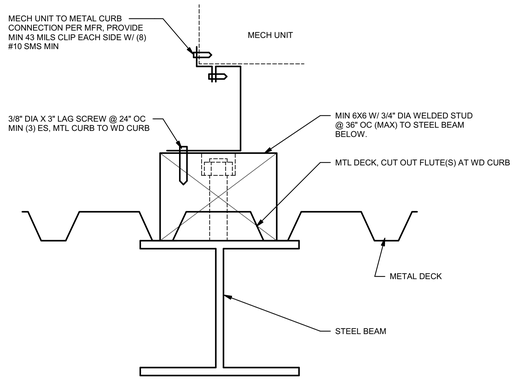
NO SCALE



NOTE:
1. FOR DRAIN CONNECTION, REFER TO PLUMBING DRAWINGS.

3 WALL MOUNTED DUCTLESS SPLIT SYSTEM MOUNTING DETAIL (DSS-1,2)

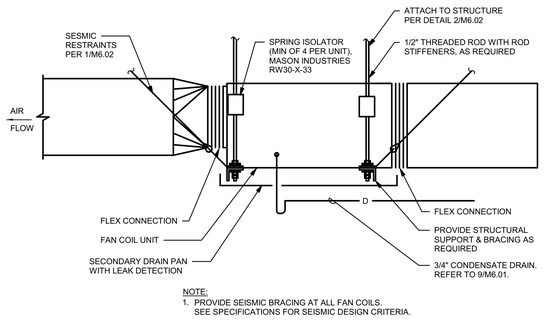
NO SCALE



NOTE:
1. WOOD SHALL BE PROTECTED FROM WEATHER BY ROOFING. IF LEFT EXPOSED, WOOD SHALL BE PTDF
2. SEE DETAIL 4/S1.04 FOR ADDITIONAL INFORMATION.
3. MAX WEIGHT OF EQUIPMENT TO BE 1050#

4 EQUIPMENT MOUNTED ON METAL DECK

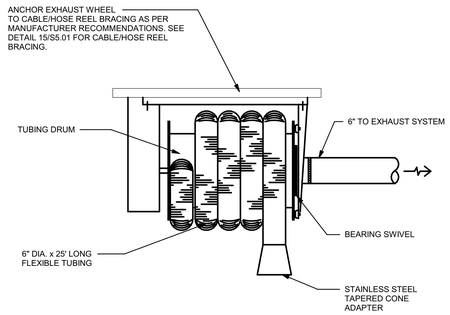
NO SCALE



NOTE:
1. PROVIDE SEISMIC BRACING AT ALL FAN COILS. SEE SPECIFICATIONS FOR SEISMIC DESIGN CRITERIA.

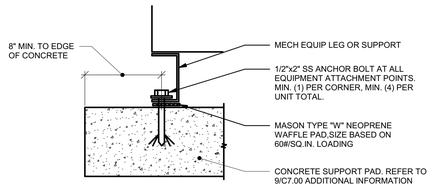
5 FAN COIL UNIT HANGING DETAIL (FC-1 THRU 5,7 THRU 10)

NO SCALE



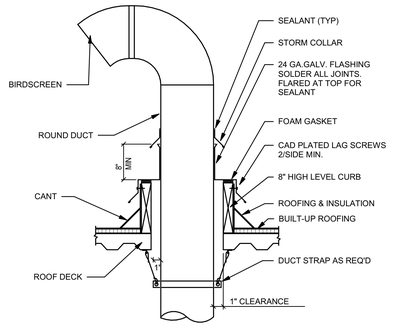
6 VEHICLE EXHAUST REEL

NO SCALE



7 EQUIPMENT ATTACHMENT W/O ISOLATORS (DC-1)

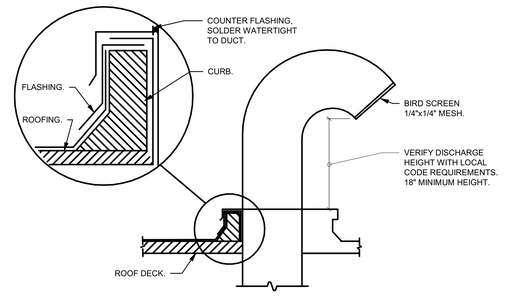
NO SCALE



NOTES:
A. REFER TO ARCHITECTURAL (A2.03) AND STRUCTURAL (S2.03) DRAWINGS FOR ROOF OPENINGS AND ROOFING DETAILS.
B. SEAL ALL DUCT JOINTS AND SEAMS EXPOSED TO WEATHER, SEE SPECIFICATIONS FOR MATERIALS.
C. MAX OVERALL HEIGHT OF ASSEMBLY TO BE 24". MAX HEIGHT OF DUCTWORK ABOVE CURB 18".

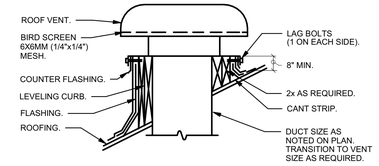
8 DUCT PENETRATION THROUGH ROOF - ROUND DUCT

NO SCALE



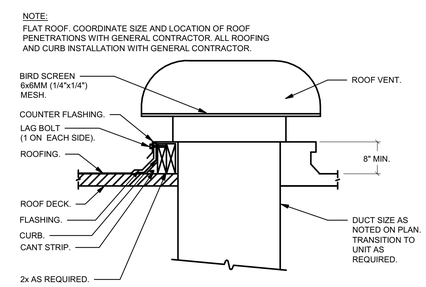
9 GOOSENECK - RECTANGULAR DUCT

NO SCALE



10 OUTSIDE AIR AND VENT (GI-1,2 & GR-1,2)

NO SCALE



11 OUTSIDE AIR AND VENT

NO SCALE

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REGISTERED PROFESSIONAL ENGINEER — SHANE M. CLASCO — No. M34857 Exp: 06/30/26 — MECHANICAL — STATE OF CALIFORNIA

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DETAILS - MECHANICAL

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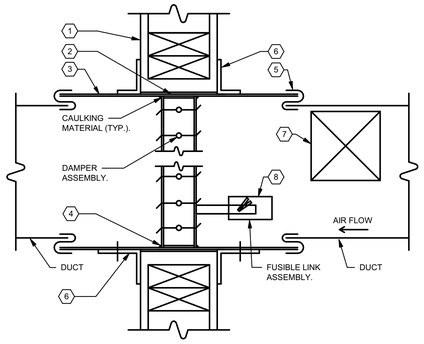


DETAIL KEYNOTES

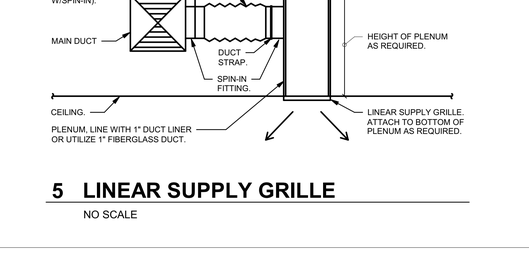
1. FIRE RATED PARTITION. COORDINATE WITH ARCHITECTURAL FOR FRAMING AND FIRE RATED LINING REQUIREMENTS.
2. COORDINATE PARTITION OPENING, 1/8" LARGER THAN FIRE DAMPER SLEEVE PER FOOT OF WIDTH OR HEIGHT.
3. PROVIDE SLEEVE 3" BEYOND EDGE OF PARTITION, EACH SIDE.
4. FIRE DAMPER FRAME ATTACHED TO SLEEVE BY MANUFACTURER.
5. "S" TYPE DUCT CONNECTION. DO NOT SCREW OR BOLT.
6. ANGLE ALL AROUND SLEEVE MINIMUM 1" OVERLAP WITH WALL FRAMING. ONE INCH FILLET WELDS 5" MAX. ON CENTER, OR 1/4" BOLTS 5" MAX. ON CENTER. DO NOT ATTACH ANGLES TO WALL. COORDINATE WITH DAMPER MANUFACTURER FOR APPROVED ANGLE SIZE AND GAUGE.
7. PROVIDE DUCT ACCESS DOOR. COORDINATE LOCATION AND TYPE OF ARCHITECTURAL SERVICE ACCESS WITH ARCHITECTURAL.
8. DAMPER ACTUATOR, MOUNT EXTERNAL OF DUCT ON DAMPER SLEEVE. BY DAMPER MANUFACTURER.

DETAIL GENERAL NOTES

DETAIL INDICATES REQUIREMENTS FOR STANDARD FRAME INSTALLATION. REFERENCE "SMACNA FIRE, SMOKE AND RADIATION DAMPER INSTALLATION GUIDE" FOR OTHER CONFIGURATION REQUIREMENTS. COMPLY FULLY WITH ABOVE MENTIONED AND ALSO AHJ REQUIREMENTS IN ALL CASES.

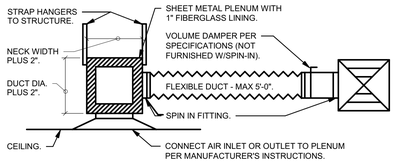
1 FIRE DAMPER

NO SCALE



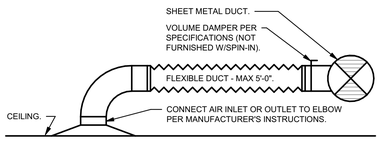
2 UNIT HEATER INSTALLATION

NO SCALE



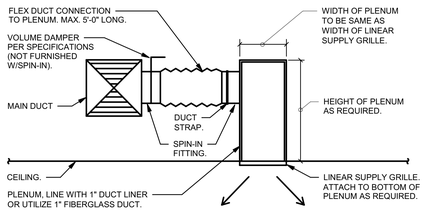
3 AIR INLET OR OUTLET SQUARE NECK

NO SCALE



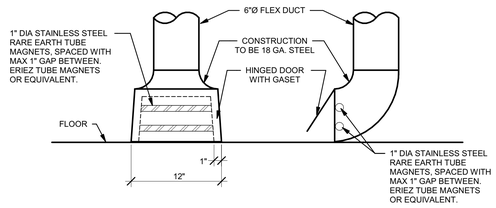
4 AIR INLET OR OUTLET ROUND NECK

NO SCALE



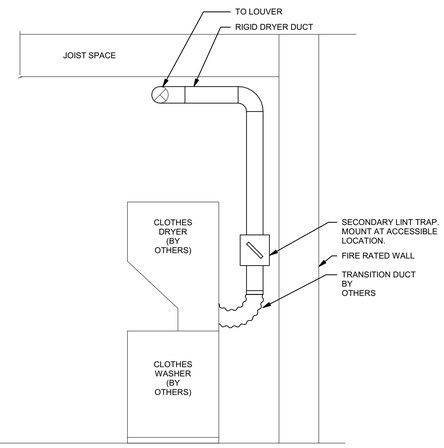
5 LINEAR SUPPLY GRILLE

NO SCALE



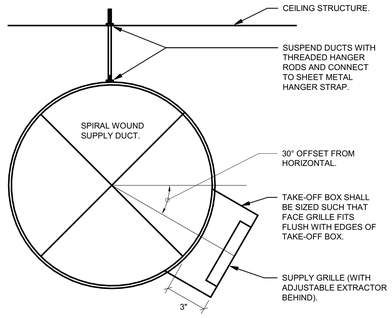
6 FLOOR SWEEP

NO SCALE



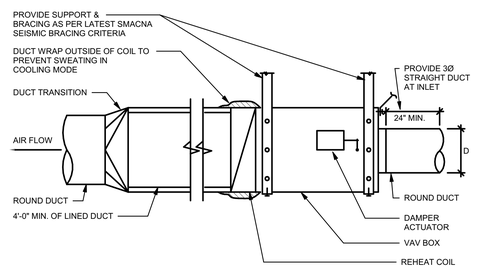
7 DRYER VENT DETAIL

NO SCALE



8 SUPPLY DUCT TAKE-OFF

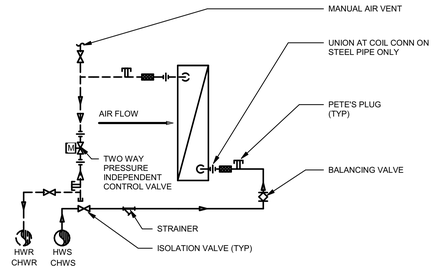
NO SCALE



NOTE: PROVIDE SEISMIC BRACING AT ALL VAV BOXES. SEE SPECIFICATIONS.FOR SEISMIC DESIGN CRITERIA.

9 VAV TERMINAL BOX SUPPORT

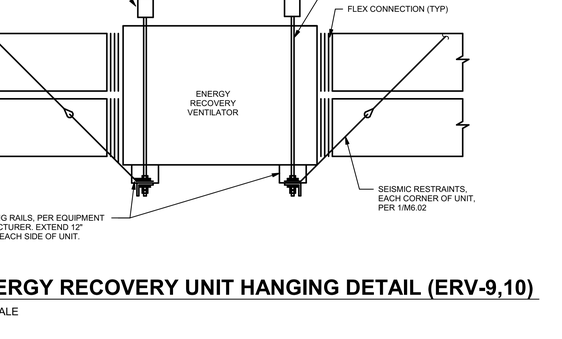
NO SCALE



NOTE:
1. PROVIDE TEMPORARY BYPASS PIPE/HOSE AROUND EQUIPMENT DURING SYSTEM FLUSHING. DO NOT USE PERMANENT STRAINERS DURING SYSTEM FLUSHING.

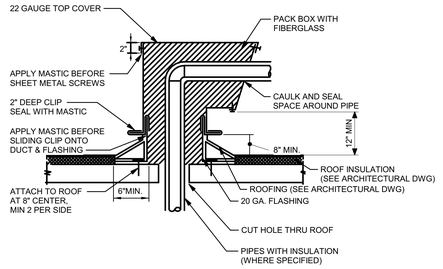
10 VAV COIL PIPING DIAGRAM

NO SCALE



11 AHU/MAU COIL PIPIING DIAGRAM

NO SCALE



NOTE:
1. PAINT ALL EXPOSED SHEET METAL PARTS WITH WEATHER RESISITANT PAINT.

12 ROOF JACK FOR PIPES THRU ROOF

NO SCALE

13 ENERGY RECOVERY UNIT HANGING DETAIL (ERV-9,10)

NO SCALE

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	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

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DETAILS - MECHANICAL

M6.05

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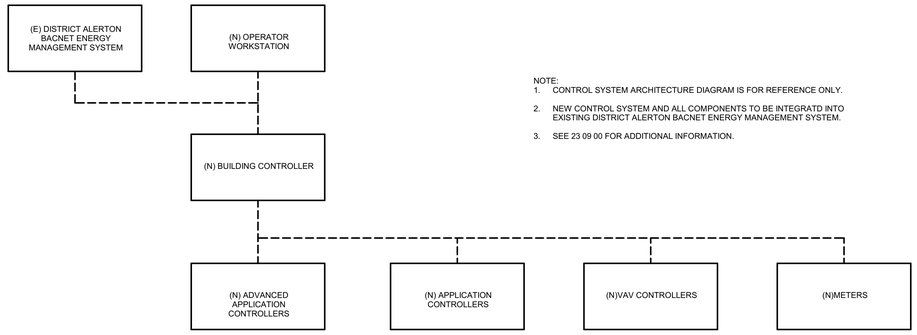

NOTE:
1. CONTROL SYSTEM ARCHITECTURE DIAGRAM IS FOR REFERENCE ONLY.
2. NEW CONTROL SYSTEM AND ALL COMPONENTS TO BE INTEGRATD INTO EXISTING DISTRICT ALERTON BACNET ENERGY MANAGEMENT SYSTEM.
3. SEE 23 09 00 FOR ADDITIONAL INFORMATION.

1 CONTROL SYSTEM DIAGRAM

NO SCALE

CONTROL DIAGRAM SYMBOLS LIST

ABBREVIATIONS		SYMBOLS	
AFMS	AIR FLOW MEASURING STATION		
AI	ANALOG INPUT	AI	ANALOG INPUT
AO	ANALOG OUTPUT	AO	ANALOG OUTPUT
BMS/BAS	BUILDING MANAGEMENT SYSTEM		
CO	CARBON MONOXIDE SENSOR		
CO2	CARBON DIOXIDE SENSOR	CT	ELECTRIC CURRENT TRANSMITTER
CT	ELECTRIC CURRENT TRANSMITTER		
DDC	DIRECT DIGITAL CONTROL	DDC	DIRECT DIGITAL CONTROL
DI	DIGITAL INPUT	DI	DIGITAL INPUT
DO	DIGITAL OUTPUT	DO	DIGITAL OUTPUT
DP	PRESSURE SENSOR	DP DP	DIFFERENTIAL PRESSURE SENSOR
EA	EXHAUST AIR		
ECM	ELECTRONICALLY COMMUTATED MOTOR		FLOW METER
EF	EXHAUST FAN	FS	FLOW SWITCH
HS	HIGH STATIC	H	ROOM / DUCT RELATIVE HUMIDITY SENSOR / TRANSMITTER
HWR	HEATING HOT WATER RETURN		
HWS	HEATING HOT WATER SUPPLY	HS	HIGH STATIC PRESSURE SENSOR
M	MOTORIZED		MOTOR STARTER
MAU	MAKE UP AIR UNIT	MD	MOTORIZED DAMPER
M/S	MOTOR STARTER		
MD	MOTORIZED DAMPER	NETWORK	BACNET COMMUNICATION LINE WITH DEVICE / CONTROLLER
OA	OUTSIDE AIR		
P	PRESSURE SENSOR	P	PRESSURE SENSOR
PPM	PARTS PER MILLION	SD	SMOKE DETECTOR
RA	RETURN AIR / RELIEF AIR	SP	SPACE PRESSURE SENSOR
RF	RETURN FAN / RELIEF FAN	T	TEMPERATURE SENSOR/ROOM THERMOSTAT
SA	SUPPLY AIR		
SF	SUPPLY FAN OR SQUARE FOOT	TPI	THIRD PARTY INTERFACE (BACNET)
SD	SMOKE DETECTOR/ ROOM THERMOSTAT	VFD	VARIABLE FREQUENCY DRIVE
T	TEMPERATURE SENSOR		
TPI	THIRD PARTY INTERFACE	ECM	ELECTRONICALLY COMMUTATED MOTOR
VFD	VARIABLE FREQUENCY DRIVE		

GENERAL CONTROL SHEET NOTES

A. PROVIDE ALL THIRD PARTY BACNET INTERFACES WHERE NOT PROVIDED BY EQUIPMENT MANUFACTURER.
B. SEE ELECTRICAL DRAWINGS FOR 120 VOLT JUNCTION BOXES FOR POWER SUPPLY. PROVIDE ADDITIONAL 120V POWER SUPPLY AS REQUIRED, AND PROVIDE 120V TO 24V TRANSFORMERS FOR LOW VOLTAGE CONTROL POWER. PROVIDE 24V POWER TO ALL CONTROL DEVICES. PROVIDE CONTROL WIRING PER DIV. 23 & 26 SPECIFICATIONS. PROVIDE PLENUM RATED CABLE ABOVE REMOVABLE TILE CEILING, AND RACEWAY ABOVE HARD LID CEILINGS.
C. PROVIDE 120V POWER FOR AIRFLOW MEASURING STATIONS, LARGE VALVES, AND BMS CONTROL SYSTEMS INCLUDING ALL PANELS. FOLLOW DIV. 26 SPECIFICATIONS FOR PRODUCTS AND INSTALLATION RELATED TO 120V POWER DISTRIBUTION. PROVIDE EMERGENCY POWER FOR ASSOCIATED BMS CONTROLLERS AND TERMINAL UNITS WHERE AHU IS ON EMERGENCY POWER.
D. PROVIDE COMMUNICATION WIRING AND CONNECT TO THE BUILDING AND/OR CAMPUS' IP NETWORK.
E. CONTROL DIAGRAMS, SEQUENCES, AND SPECIFICATIONS ARE PERFORMANCE BASED. PROVIDE FINAL SEQUENCES, POINT LIST, TRENDING LIST, CONTROL DIAGRAMS, AND ARCHITECTURAL RISER DIAGRAMS (SEE SPECIFICATIONS).
F. PROVIDE FLOOR LEVEL AND BUILDING LEVEL CONTROLLERS, AS NEEDED.
G. MODIFY ADJUSTABLE SETPOINTS DURING FUNCTIONAL TESTING AND COMMISSIONING STAGE FOR PROPER SYSTEMS' OPERATION.
H. ALL CONTROL POWER TO BE FED FROM PANEL WITH EMERGENCY POWER BACKUP.

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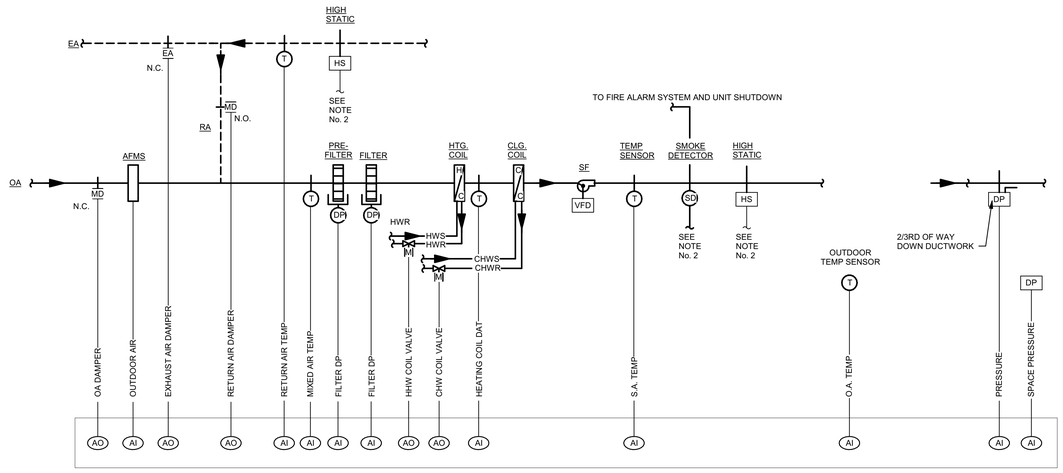
CONTROL DIAGRAMS - MECHANICAL

M7.01

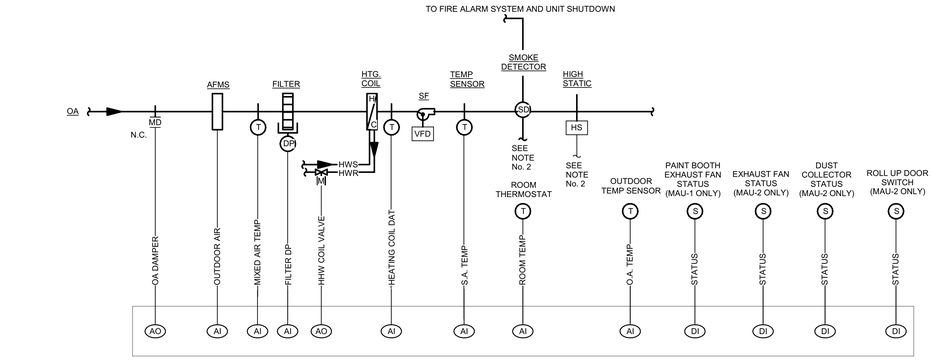


NOTES:

1. SEE SCHEDULES AND AIR HANDLING UNIT DETAILS FOR QUANTITY OF FANS, VFD'S AND ECM MOTORS.
2. HARDWIRE SMOKE DETECTOR AND HIGH STATIC ACTIVATIONS TO VFD/ECM MOTORS FOR FAN SHUTDOWN.

1 VAV AIR HANDLING UNIT SYSTEM CONTROL DIAGRAM (AHU-1)

NO SCALE

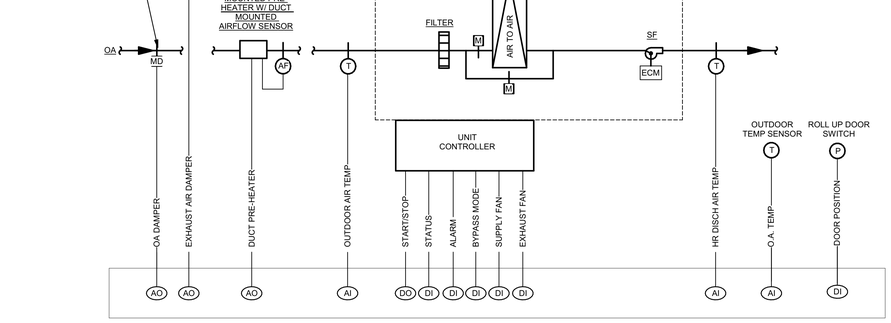


NOTES:

1. SEE SCHEDULES AND AIR HANDLING UNIT DETAILS FOR QUANTITY OF FANS, VFD'S AND ECM MOTORS.
2. HARDWIRE HIGH STATIC AND SMOKE DETECTOR ACTIVATIONS TO VFD/ECM MOTORS FOR FAN SHUTDOWN.

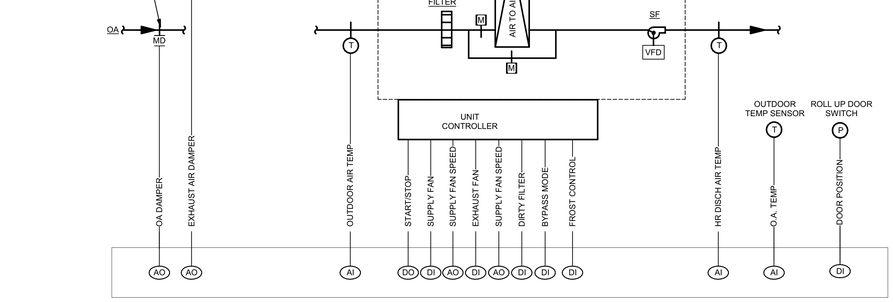
2 MAKEUP AIR UNIT SYSTEM CONTROL DIAGRAM (MAU-1 & 2)

NO SCALE



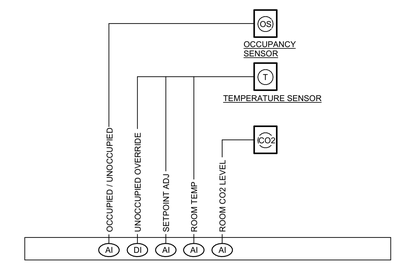
3 ENERGY RECOVERY VENTILATION UNIT SYSTEM CONTROL DIAGRAM 1

NO SCALE



4 ENERGY RECOVERY VENTILATION UNIT SYSTEM CONTROL DIAGRAM 2

NO SCALE

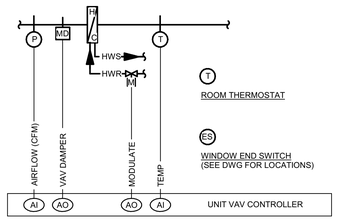


NOTE:

1. PROVIDE DIGITAL DISPLAY EXCEPT WHERE LOCATED IN LOBBIES AND CORRIDORS.
2. PROVIDE OCCUPANCY SENSOR FOR HVAC SEQUENCES. USE DIVISION 26 OCCUPANCY SENSOR, WHERE DIV. 26 SHOWS SENSORS, OTHERWISE USE DIVISION 26 SPECIFICATIONS FOR QUALITY OF SENSOR. OCCUPANCY SENSOR MAY BE INTEGRATED WITH TEMPERATURE SENSOR.
3. PROVIDE CO2 SENSORS AS SHOWN ON DRAWINGS AND IN ROOMS WITH A MIN OCCUPANCY OF 40 PERSONS PER 1,000 SF.

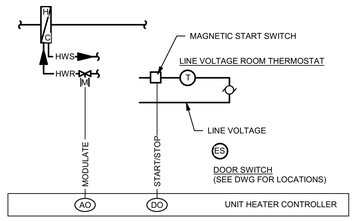
5 ROOM THERMOSTAT (TYPICAL)

NO SCALE



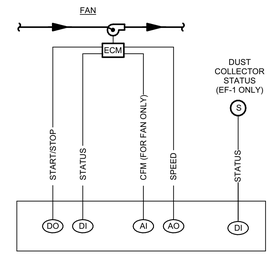
6 VAV BOX CONTROL DIAGRAM W/ REHEAT

NO SCALE



7 UNIT HEATER CONTROL DIAGRAM (TYPICAL)

NO SCALE



8 ECM EXHAUST FAN (TYPICAL)

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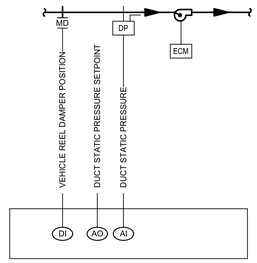
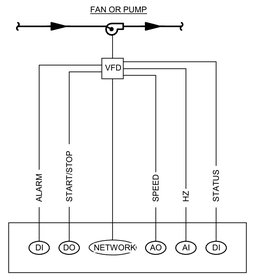
CONTROL DIAGRAMS - MECHANICAL

M7.02



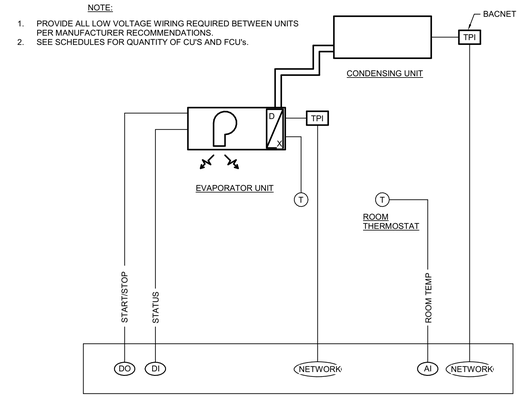
1 EXHAUST FAN EF-4 CONTROL DIAGRAM

NO SCALE



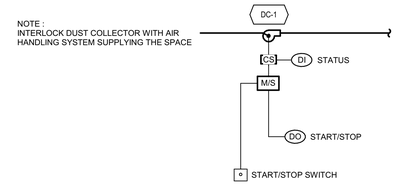
2 MOTOR WITH VFD (TYPICAL)

NO SCALE



3 VRF & SPLIT SYSTEM CONTROL DIAGRAM (FC & DSS SYSTEMS)

NO SCALE



4 DUST COLLECTOR CONTROL DIAGRAM

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CONTROL DIAGRAMS - MECHANICAL

M7.03

ELECTRICAL SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AWG	AMERICAN WIRE GAUGE
A	AMPERES, AMBER
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AVAILABLE INTERRUPTING CAPACITY
BAS	BUILDING AUTOMATION SYSTEM
CA	CABLE
CAT	CATEGORY
CLG	CEILING
C	CONDUIT, CLOSE, CONTROL
COORD	COORDINATE
CU	COPPER
dB	DECIBEL
(X)	DEMOLISH
DTL	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DIV	DIVISION
DN	DOWN
DWG	DRAWING
EA	EACH
EMT	ELECTRICAL METALLIC TUBING
EL	ELEVATION
E	EMERGENCY
EF	EXHAUST FAN
(E)	EXISTING
FA	FIRE ALARM
FMC	FLEXIBLE METAL CONDUIT
FT	FOOT, FEET
FBO	FURNISHED BY OTHERS
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GFP	GROUND FAULT PROTECTION
HT	HEIGHT
ID	IDENTIFICATION
IN	INCH, INCHES
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
IG	ISOLATED GROUND
KV	KILOVOLT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
LV	LOW VOLTAGE
MOCP	MAXIMUM OVERCURRENT PROTECTION
MIN	MINIMUM
MCA	MINIMUM CIRCUIT AMPS
MISC	MISCELLANEOUS
MCC	MOTOR CONTROL CENTER
MT, MTD	MOUNT, MOUNTED
NEC	NATIONAL ELECTRIC CODE
NESC	NATIONAL ELECTRIC SAFETY CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
N	NEUTRAL
N/A	NOT APPLICABLE
N.I.C.	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
PNL	PANEL
PH	PHASE
PVC	POLY-VINYL-CHLORIDE
PWR	POWER
QTY	QUANTITY
(R)	RELOCATE
RFI	REQUEST FOR INFORMATION
REQD	REQUIRED
RMC	RIGID METAL CONDUIT
RM	ROOM
SHT	SHEET
STD	STANDARD
SPD	SURGE PROTECTION DEVICE
SWBD	SWITCHBOARD
TBD	TO BE DETERMINED
XFMR	TRANSFORMER
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UPS	UNINTERRUPTIBLE POWER SUPPLY
UNV	UNIVERSAL
UON	UNLESS OTHERWISE NOTED
V	VOLTS, VOLTAGE
WP	WEATHERPROOF
W/	WITH
W/O	WITHOUT

Connections / Equipment

- COMBINATION ADJUSTABLE FREQUENCY DRIVE WITH SAFETY DISCONNECT SWITCH
- COMBINATION MOTOR STARTER/FUSED DISCONNECT SWITCH
- HEAVY DUTY FUSED DISCONNECT SWITCH
- HEAVY DUTY NON-FUSED DISCONNECT SWITCH
- MOTOR CONNECTION
- TRANSFORMER
- FIRE SMOKE DAMPER
- SMOKE DAMPER
- CEILING MOUNTED JUNCTION BOX
- FLOOR MOUNTED JUNCTION BOX
- WALL-MOUNTED JUNCTION BOX

General

- DETAIL NUMBER AND SHEET LOCATION
- EQUIPMENT CONNECTION IDENTIFICATION
- KEYED NOTE
- MECHANICAL EQUIPMENT IDENTIFICATION
- DEMOLISH
- EXISTING WORK
- NEW WORK

Lighting

- EXIT SIGN CEILING MOUNTED, ARROW(S) INDICATES DIRECTION IF SHOWN
- EXIT SIGN WALL MOUNTED, ARROW(S) INDICATES DIRECTION IF SHOWN
- RECESSED LINEAR LUMINAIRE
- RECESSED LUMINAIRE
- RECESSED LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT
- SURFACE MOUNTED 2' X 2' LUMINAIRE
- SURFACE MOUNTED 2' X 2' LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT
- SURFACE OR PENDANT MOUNTED LUMINAIRE
- SURFACE OR PENDANT MOUNTED LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT
- SURFACE OR PENDANT MOUNTED STRIPLIGHT
- SURFACE OR PENDANT MOUNTED STRIPLIGHT CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT
- WALL MOUNTED LINEAR LUMINAIRE
- WALL MOUNTED LINEAR LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT
- WALL MOUNTED LUMINAIRE
- WALL MOUNTED LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT
- AREA BOLLARD LUMINAIRE WITH CONCRETE BASE
- AREA LUMINAIRE ARM MOUNTED WITH POLE AND CONCRETE BASE. NUMBER OF HEADS AND CONFIGURATION INDICATED ON PLANS.

Miscellaneous

- #10 B-27,29,31. — BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
- BRANCH PANEL
- CIRCUIT BREAKER
- DRY TYPE TRANSFORMER
- ENERGY METER WITH CONNECTION
- FLUSH WALL MOUNTED BRANCH PANEL
- GB — GROUND BAR
- MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL
- UTILITY METER WITH CONNECTION

Raceways

- UNDERGROUND 12KV
- CONDUIT CONCEALED IN WALL OR CEILING SPACE
- 12KV — CONDUIT ROUTED BELOW FLOOR / GRADE
- CONDUIT ELLED DOWN
- CONDUIT ELLED UP
- CONDUIT/WIRING CONTINUATION
- CONDUIT/WIRING STUBBED OUT WITH END CAP OR INSULATED PLASTIC BUSHING
- FLEXIBLE CONDUIT

Switches and Receptacles

- FLUSH POKE-THRU WITH DOUBLE DUPLEX RECEPTACLE
- DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS)
  A = ABOVE COUNTER
  B = CLOCK HANGER
  C = FLUSH CEILING MOUNTED
  E = EMERGENCY
  F = ARC FAULT PROTECTED BY BREAKER IN PANEL
  G = GROUND FAULT CIRCUIT INTERRUPTER
  H = HOSPITAL GRADE
  K = CHILD RESISTANT COVER
  L = ISOLATED GROUND
  P = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANT LENGTH
  R1 = HALF SWITCHED BY OCCUPANCY SENSOR RELAY
  R2 = FULLY SWITCHED BY OCCUPANCY SENSOR RELAY
  S = SPLIT WIRED
  T = TAMPER RESISTANT SHUTTERED RECEPTACLE
  U = USB PORT(S)
  W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE
- DUPLEX RECEPTACLE, FLUSH FLOOR
- DOUBLE DUPLEX RECEPTACLE, FLUSH FLOOR
- DOUBLE DUPLEX RECEPTACLE. SEE LETTER CODE LIST AT DUPLEX RECEPTACLE FOR OPTIONS
- EQUIPMENT ELECTRICAL CONNECTION
- SPECIAL PURPOSE RECEPTACLE. LETTER CODE DENOTES RECEPTACLE CONFIGURATION
  LX-XXR = NEMA CONFIGURATION TWIST-LOCK RECEPTACLE
  X-XXR = NEMA CONFIGURATION STRAIGHT BLADE RECEPTACLE
  P = PENDANT MOUNT WITH CORD GRIPS. VERIFY PENDANT LENGTH
  X = COORDINATE RECEPTACLE CONFIGURATION WITH EQUIPMENT BEING SUPPLIED
- CEILING MOUNTED OCCUPANCY SENSOR
  P = PASSIVE INFRARED
  D = DUAL TECHNOLOGY
  U = ULTRASONIC, 360 DEG RANGE
  H = ULTRASONIC, HALLWAY PATTERN
  v (LOWERCASE) = VACANCY CONTROL DESIGNATION
- WALL MOUNTED OCCUPANCY SENSOR
  P = PASSIVE INFRARED
  D = DUAL TECHNOLOGY
  v (LOWERCASE) = VACANCY CONTROL DESIGNATION
- WALL MOUNTED OCCUPANCY SENSOR/SWITCH
  S = PASSIVE INFRARED WITH INTEGRAL "OFF" SWITCH
  T = DUAL RELAY PASSIVE INFRARED WITH TWO INTEGRAL "OFF" SWITCHES
  D = PASSIVE INFRARED WITH INTEGRAL DIMMER TO OFF.
  v (LOWERCASE) = VACANCY CONTROL DESIGNATION
- MULTIPLE CHANNEL SURFACE METAL RECEPTACLE RACEWAY WITH LOW VOLTAGE DIVIDERS, LENGTH AND RECEPTACLES AS INDICATED
- PHOTO ELECTRIC SWITCH
  D = CONTINUOUS DIMMING PHOTOCELL
  S = SWITCHED PHOTOCELL
- SINGLE POLE SWITCH
  2 = DOUBLE POLE SWITCH
  3 = THREE-WAY SWITCH
  4 = FOUR-WAY SWITCH
  a THRU z (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION
  D = DIMMER
  F = FAN SPEED CONTROL
  K = KEY OPERATED SWITCH
  L = LIGHTED HANDLE
  M = MANUAL MOTOR RATED SWITCH
  P = SWITCH WITH PILOT LIGHT
  S = SENTRY SWITCH
  T = INTERVAL TIMER
  W = WEATHERPROOF SWITCH
  V = LOW VOLTAGE SWITCH

DSA COMPONENT ANCHORAGE NOTES

A. ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26, AND ASCE 7-16 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/120 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

B. THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

1. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
2. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

C. THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBINGCOMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTES

A. PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

B. THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G. HCAI OPM FOR 2022 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

C. MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEM (E):

MP__	MD__	PP__	E_X_	OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
MP__	MD__	PP__	E__	OPTION 2: SHALL COMPLY WITH APPLICABLE OSHPD PRE-APPROVAL (OPM #) OPM 0052-13 AS INCLUDED IN THESE DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

GENERAL ELECTRICAL NOTES

A. DO NOT COMMENCE INSTALLATION OF ELECTRICAL SYSTEMS AND EQUIPMENT WITHOUT RELATED SHOP DRAWING APPROVALS.

B. COORDINATE WITH OWNER SO THAT WORK CAN BE SCHEDULED NOT TO INTERRUPT OPERATIONS, NORMAL ACTIVITIES, BUILDING ACCESS, ACCESS TO DIFFERENT AREAS. THE OWNER WILL COOPERATE TO THE BEST OF THEIR ABILITY TO ASSIST IN A COORDINATED SCHEDULE, BUT WILL REMAIN THE FINAL AUTHORITY AS TO TIME OF WORK PERMITTED.

C. COORDINATE THE EXACT LOCATION OF EXISTING UTILITIES AND EQUIPMENT PRIOR TO COMMENCEMENT OF WORK. COMPENSATE THE OWNER FOR DAMAGES CAUSED BY THE FAILURE TO LOCATE AND PRESERVE UTILITIES. REPLACE DAMAGED ITEMS WITH NEW MATERIAL TO MATCH EXISTING.

D. PROVIDE SUITABLE ANCHORAGE AND SUPPORT FOR ELECTRICAL EQUIPMENT IN RATED WALLS, SLABS AND CEILINGS. MOUNT DEVICES AND RACEWAYS IN ACCORDANCE WITH ESTABLISHED CODES AND SPECIFICATIONS.

E. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

F. DRAWINGS AND SPECIFICATIONS COMPLEMENT EACH OTHER. REQUIREMENT BY EITHER INFERS REQUIREMENT BY BOTH.

G. CONNECT EQUIPMENT AND DEVICES FURNISHED UNDER OTHER DIVISIONS OF THIS CONTRACT, BY OWNER OR BY OTHER CONTRACTS.

H. UNLESS OTHERWISE NOTED, PROVIDE CONCEALED AND FLUSH MOUNTED INSTALLATION OF DEVICES AND EQUIPMENT IN AREAS.

I. PROVIDE SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN 120 VOLT, MULTI-WIRE CIRCUITS.

J. FOR 120 VOLT, 20 AMP CIRCUITS, WHERE CIRCUIT DISTANCE FROM PANELBOARD TO FARTHEST DEVICE/FIXTURE EXCEEDS 70 FEET, PROVIDE #10 SIZE PHASE AND GROUND CONDUCTORS. WHERE CIRCUIT DISTANCE FROM PANELBOARD TO FARTHEST DEVICE/FIXTURE EXCEEDS 100 FEET, PROVIDE #8 SIZE PHASE AND GROUND CONDUCTORS. UPSIZE RACEWAY SIZES AS REQUIRED PER NEC.

K. RUN ELECTRICAL CONDUIT CONCEALED AND PARALLEL TO BUILDING LINES. VERIFY WITH ARCHITECT.

L. RECEPTACLE OUTLETS SHALL COMPLY WITH CEC SECTIONS 210.7 AND 210.50.

M. LIGHTS, SWITCHES AND CONTROL MECHANISMS SHALL COMPLY WITH CEC SECTION 404.

N. BRACE ELECTRICAL EQUIPMENT TO RESIST A HORIZONTAL FORCE THAT ACT IN ANY DIRECTION. COMPLY WITH TITLE 24 REQUIREMENTS.

O. INSTALL COMPLETE SYSTEM OF CONDUCTORS IN RACEWAY SYSTEM THROUGHOUT BUILDING FOR FEEDERS, BRANCH CIRCUITS, ETC.

P. DESIGN OF TEMPORARY POWER FOR CONSTRUCTION SHALL BE THE CONTRACTOR'S RESPONSIBILITY. REMOVE TEMPORARY POWER PRIOR TO COMPLETION OF PROJECT.

Q. ALL WORK ON SERVICE CONDUCTORS, FEEDERS, AND OTHER SUCH EQUIPMENT SHALL BE DONE ONLY WHEN SUCH CONDUCTORS, FEEDERS, AND EQUIPMENT ARE DE-ENERGIZED. THE CONTRACTOR SHALL HAVE AN "ELECTRICAL SAFETY AND LOCK-OUT/TAG-OUT PROCEDURE" IN PLACE PRIOR TO COMMENCEMENT OF WORK.

R. MINIMUM SIZE FOR EXTERIOR BELOW GRADE CONDUIT SHALL BE 1".

S. DRY-TYPE TRANSFORMERS LARGER THAN 112.5KVA ARE SPECIFIED IN COMPLIANCE WITH CEC 450.21(B) EXCEPTIONS 1 AND 2. THE 1-HOUR FIRE RATING REQUIREMENT FOR THE ROOM HOUSING THE TRANSFORMER SHALL BE EXEMPT.

T. OCCUPANCY SENSOR NOTES:

1. WALL SENSORS
   a. SENSOR MUST HAVE CLEAR "VIEW" OF OCCUPANTS. WHERE SENSOR WILL BE BLOCKED, SUBSTITUTE WITH SMALL-ROOM CEILING SENSOR.
2. SEE MANUFACTURER'S SPECIFICATION REGARDING PLACING SENSORS AWAY FROM STRONG AIR-FLOW. INDICATE PRECISE LOCATION OF EACH CEILING SENSOR WHERE DRAWINGS INDICATE AIR SUPPLIES.
3. IN INDIVIDUAL ROOMS WITH CEILING SENSORS AND DUAL-LEVEL LIGHTING, ASSUME TWO TOGGLE SWITCH OVERRIDES PER ROOM.
4. PRIOR TO INSTALLATION, RECEIVE FACTORY-TRAINING AND LAYOUT-ASSISTANCE. IF LOCAL AGENT CHANGES LIGHTING DRAWINGS, CONTACT FACTORY REPRESENTATIVE.

U. PROVIDE ALL BACKBOXES, FLOOR BOXES, FLOOR TRENCH DUCT, GROUNDING SYSTEM, PULL BOXES, CONDUITS, CABLING, AND CABLE TRAYS PER TELECOM/AV/SECURITY DRAWINGS AND SPECIFICATIONS. REFER TO TELECOM/AV/SECURITY DRAWINGS FOR QUANTITY AND LOCATIONS. PROVIDE ALL APPURTENANCES FOR A COMPLETE INSTALLATION.

V. PROVIDE CABLING AND DEVICES PER THE TELECOMMUNICATION CONSULTANT OR OWNER REQUIREMENTS

W. ALL AIC RATINGS SHOWN ARE MINIMUM REQUIREMENTS. COORDINATE AND UPGRADE RATINGS FOR ALL DISTRIBUTION EQUIPMENT AS PER SHORT CIRCUIT ANALYSIS RECOMMENDATIONS.

X. HIRE THIRD PARTY TESTING AGENCY TO PERFORM THE FOLLOWING, AS PART OF A DEFERRED SUBMITTAL IN CONSTRUCTION FOR REVIEW AND APPROVAL BY THE ENGINEER OF RECORD:

1. SHORT CIRCUIT STUDY, ARC FLASH STUDY & LABELS, AND OVERCURRENT PROTECTIVE STUDY.
2. ACCEPTANCE TESTING IN ACCORDANCE WITH SPECIFICATIONS.

Y. PROVIDE TESTING REPORTS TO ENGINEER FOR REVIEW UPON COMPLETION OF INSTALLATION FOR THE FOLLOWING, AS PART OF A DEFERRED SUBMITTAL IN CONSTRUCTION FOR REVIEW AND APPROVAL BY THE ENGINEER OF RECORD:

1. INSULATION RESISTANCE (MEGGER) TEST REPORTS PRIOR TO CONDUCTOR TERMINATION AND EQUIPMENT ENERGIZATION.
2. TORQUE TEST REPORTS PRIOR TO EQUIPMENT ENERGIZATION.

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rev	date	issue
2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

REGISTERED PROFESSIONAL ENGINEER
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Exp: 03/31/26
ELECTRICAL
STATE OF CALIFORNIA

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plot date:
project number: 20-296
date: 12/11/2024

SYMBOL LIST AND GENERAL NOTES - ELECTRICAL

E0.01

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	HOUSING	SHIELDING	MOUNTING	FINISH	UL/IP RATING	DRIVER/ POWER SUPPLY	LIGHT SOURCE	INPUT WATTS	VOLTAGE	MFG/CATALOG #	NOTES
F1A	SUSPENDED LINEAR STRIPLIGHT; 2.23IN WIDE BY 3IN TALL BY 8FT LONG, LAMBERTIAN DISTRIBUTION	COLD ROLLED STEEL	DROPPED DIFFUSE FROSTED ACRYLIC LENS	SUSPENDED	WHITE	DAMP	INTEGRAL DRIVER, 0-10V DIMMING	LED, 13,240 LUMENS, 4000K, 90CRI	121W	UNV	LITHONIA ZL1D #TZL1D-L96-SMR-14000LM-FST-MVOLT-40K-90CRI-WH OR APPROVED EQUIVALENT	1. SEE LIGHTING DETAIL DRAWINGS FOR MOUNTING HEIGHT. 2. LUMINAIRE WEIGHT: 26 LBS MAX
F1B	SUSPENDED LINEAR STRIPLIGHT; 2.23IN WIDE BY 3IN TALL BY 8FT LONG, LAMBERTIAN DISTRIBUTION; INTEGRAL HIGH/LOW OCCUPANCY SENSOR	COLD ROLLED STEEL	DROPPED DIFFUSE FROSTED ACRYLIC LENS	SUSPENDED	WHITE	DAMP	INTEGRAL DRIVER, 0-10V DIMMING	LED, 9,477 LUMENS, 4000K, 90CRI	81W	UNV	LITHONIA ZL1D #TZL1D-L96-SMR-10000LM-FST-MVOLT-40K-90CRI-LBH0SZU-WH OR APPROVED EQUIVALENT	1. SEE LIGHTING DETAIL DRAWINGS FOR MOUNTING HEIGHT. 2. LUMINAIRE WEIGHT: 26 LBS MAX
F1C	SUSPENDED LINEAR STRIPLIGHT; 2.23IN WIDE BY 3IN TALL BY 4FT LONG, LAMBERTIAN DISTRIBUTION; INTEGRAL HIGH/LOW OCCUPANCY SENSOR	COLD ROLLED STEEL	DROPPED DIFFUSE FROSTED ACRYLIC LENS	SUSPENDED	WHITE	DAMP	INTEGRAL DRIVER, 0-10V DIMMING	LED, 6,291 LUMENS, 4000K, 90CRI	59W	UNV	LITHONIA ZL1D #ZL1D-L48-SMR-7000LM-FST-MVOLT-40K-90CRI-LBH0SZU-WH OR APPROVED EQUIVALENT	1. SEE LIGHTING DETAIL DRAWINGS FOR MOUNTING HEIGHT.
F1D	SUSPENDED LINEAR STRIPLIGHT; 2.23IN WIDE BY 3IN TALL BY 4FT LONG, LAMBERTIAN DISTRIBUTION	COLD ROLLED STEEL	DROPPED DIFFUSE FROSTED ACRYLIC LENS	SUSPENDED	WHITE	DAMP	INTEGRAL DRIVER, 0-10V DIMMING	LED, 3,336 LUMENS, 4000K, 90CRI	30W	UNV	LITHONIA ZL1D #ZL1D-L48-SMR-3000LM-FST-MVOLT-40K-90CRI-WH OR APPROVED EQUIVALENT	1. SEE LIGHTING DETAIL DRAWINGS FOR MOUNTING HEIGHT.
F1F	SUSPENDED LINEAR STRIPLIGHT; 2.23IN WIDE BY 3IN TALL BY 8FT LONG, LAMBERTIAN DISTRIBUTION; WEIGHT: 26LBS	COLD ROLLED STEEL	DROPPED DIFFUSE FROSTED ACRYLIC LENS	SUSPENDED	WHITE	DAMP	INTEGRAL DRIVER, 0-10V DIMMING	LED, 9,477 LUMENS, 4000K, 90CRI	81W	UNV	LITHONIA ZL1D #TZL1D-L96-SMR-10000LM-FST-MVOLT-40K-90CRI-WH OR APPROVED EQUIVALENT	1. SEE LIGHTING DETAIL DRAWINGS FOR MOUNTING HEIGHT. 2. LUMINAIRE WEIGHT: 26 LBS MAX
F1G	SUSPENDED LINEAR STRIPLIGHT; 2.23IN WIDE BY 3IN TALL BY 8FT LONG, LAMBERTIAN DISTRIBUTION; INTEGRAL HIGH/LOW OCCUPANCY SENSOR; WEIGHT: 26LBS	COLD ROLLED STEEL	DROPPED DIFFUSE FROSTED ACRYLIC LENS	SUSPENDED	WHITE	DAMP	INTEGRAL DRIVER, 0-10V DIMMING	LED, 6945 LUMENS, 4000K, 90CRI	60W	UNV	LITHONIA ZL1D #TZL1D-L96-SMR-6000LM-FST-MVOLT-40K-90CRI-LBH0SZU-WH OR APPROVED EQUIVALENT	1. SEE LIGHTING DETAIL DRAWINGS FOR MOUNTING HEIGHT. 2. LUMINAIRE WEIGHT: 26 LBS MAX
F1H	SUSPENDED LINEAR STRIPLIGHT; 2.23IN WIDE BY 3IN TALL BY 4FT LONG, LAMBERTIAN DISTRIBUTION; INTEGRAL HIGH/LOW OCCUPANCY SENSOR	COLD ROLLED STEEL	DROPPED DIFFUSE FROSTED ACRYLIC LENS	SUSPENDED	WHITE	DAMP	INTEGRAL DRIVER, 0-10V DIMMING	LED, 3,336 LUMENS, 4000K, 90CRI	30W	UNV	LITHONIA ZL1D #ZL1D-L48-SMR-3000LM-FST-MVOLT-40K-90CRI-LBH0SZU-WH OR APPROVED EQUIVALENT	1. SEE LIGHTING DETAIL DRAWINGS FOR MOUNTING HEIGHT.
F1J	SUSPENDED LINEAR STRIPLIGHT; 2.23IN WIDE BY 3IN TALL BY 4FT LONG, LAMBERTIAN DISTRIBUTION	COLD ROLLED STEEL	DROPPED DIFFUSE FROSTED ACRYLIC LENS	SUSPENDED	WHITE	DAMP	INTEGRAL DRIVER, 0-10V DIMMING	LED, 6,291 LUMENS, 4000K, 90CRI	59W	UNV	LITHONIA ZL1D #ZL1D-L48-SMR-7000LM-FST-MVOLT-40K-90CRI-WH OR APPROVED EQUIVALENT	1. SEE LIGHTING DETAIL DRAWINGS FOR MOUNTING HEIGHT.
F2A	RECESSED SQUARE DOWNLIGHT; NOMINAL 4IN DIAMETER APERTURE, WHITE PAINTED REFLECTOR	GALVANIZED STEEL	MATTE DIFFUSE LENS	RECESSED	WHITE	WET	INTEGRAL DRIVER, 0-10V DIMMING TO 1%	LED, 1000 NOMINAL LUMENS, 3500K, 90+CRI	8.8W	UNV	GOTHAM EVO4 SQUARE #EVO4SQ-35/10-WR-LD-MVOLT-GZ1-90CRI OR APPROVED EQUIVALENT	
F2B	RECESSED SQUARE DOWNLIGHT; NOMINAL 4IN DIAMETER APERTURE, WHITE PAINTED REFLECTOR	GALVANIZED STEEL	MATTE DIFFUSE LENS	RECESSED	WHITE	WET	INTEGRAL DRIVER, 0-10V DIMMING TO 1%	LED, 1500 NOMINAL LUMENS, 3500K, 90+CRI	13.7W	UNV	GOTHAM EVO4 SQUARE #EVO4SQ-35/15-WR-LD-MVOLT-GZ1-90CRI OR APPROVED EQUIVALENT	
F3	SHOWER RATED RECESSED SQUARE DOWNLIGHT; NOMINAL 4IN DIAMETER APERTURE, TEXTURED LENS; WHITE PAINTED NON-CONDUCTIVE DEAD-FRONT TRIM	GALVANIZED STEEL	MATTE DIFFUSE LENS	RECESSED	WHITE	WET	INTEGRAL DRIVER, 0-10V DIMMING TO 1%	LED, 1500 NOMINAL LUMENS, 3500K, 90+CRI	13.7W	UNV	GOTHAM EVO4 SQUARE SHOWER #EVO4SQSH-35/15-DFF-SOL-MVOLT-GZ1-90CRI OR APPROVED EQUIVALENT	
F4	SUSPENDED CYLINDER DOWNLIGHT; NOMINAL 4IN DIAMETER APERTURE, WHITE PAINTED REFLECTOR	ALUMINUM	MATTE DIFFUSE LENS	SUSPENDED @ 10'-0" AFF	TO BE SELECTED BY ARCHITECT	DAMP	INTEGRAL DRIVER, 0-10V DIMMING TO 10%	LED, 2500 NOMINAL LUMENS, 4000K, 90CRI	24.7W	UNV	GOTHAM EVO4 PENDANT STEM #EVO4PC-40/25-WR-LD-MD-MVOLT-GZ10-JBX-PCAN45-S4-90CRI-[FINISH]-CYLSTBL KIT OR APPROVED EQUIVALENT	
F5	LINEAR VANITY SCONCE; EDGEGLOW UPLIGHT AND 85 DEGREE ASYMMETRIC DOWNLIGHT	EXTRUDED AND MACHINED ALUMINUM	EXTRUDED ACRYLIC GLASS LENS	WALL MOUNTED 6IN ABOVE MIRROR	CLEAR ANODIZED	DAMP	REMOTE DRIVER, 0-10V DIMMING TO 1%	LED, 763 LUMENS / FT, 3500K, 90+CRI	7.5W / FT	UNV	VODE ZIPTHREE WALL MOUNT #707-Z3-SL-[LENGTH]-[RAIL]-S1-0-[POWER]-AE-2-0-Z-LO-359-U2A1-0-AL OR APPROVED EQUIVALENT	1. SEE ARCHITECTURAL DRAWINGS FOR EXACT LENGTH.
F6A	RECESSED LINEAR LUMINAIRE; 8FT LENGTH; LAMBERTIAN DISTRIBUTION; STANDARD OUTPUT	EXTRUDED ALUMINUM AND STEEL	FLUSH SATIN LENS	RECESSED	TO BE SELECTED BY ARCHITECT	DAMP	INTEGRAL DRIVER, 0-10V DIMMING TO 1%	LED, 672 LUMENS / FT, 3500K, 90CRI	7.8W / FT	UNV	PRUDENTIAL BIONICPRO2 RECESSED LINEAR #BPRO2-REC-FLSH-LED35-90-SO-8'-[FINISH]-SAL-LP-SC-UNV-[CEILING]-DM01 OR APPROVED EQUIVALENT	1. SEE ARCHITECTURAL RCP DRAWINGS FOR CEUILING TYPE.
F6B	RECESSED LINEAR LUMINAIRE; 6FT LENGTH; LAMBERTIAN DISTRIBUTION; STANDARD OUTPUT	EXTRUDED ALUMINUM AND STEEL	FLUSH SATIN LENS	RECESSED	TO BE SELECTED BY ARCHITECT	DAMP	INTEGRAL DRIVER, 0-10V DIMMING TO 1%	LED, 672 LUMENS / FT, 3500K, 90CRI	7.8W / FT	UNV	PRUDENTIAL BIONICPRO2 RECESSED LINEAR #BPRO2-REC-FLSH-LED35-90-SO-6'-[FINISH]-SAL-LP-SC-UNV-[CEILING]-DM01 OR APPROVED EQUIVALENT	1. SEE ARCHITECTURAL RCP DRAWINGS FOR CEUILING TYPE.
F6C	RECESSED LINEAR LUMINAIRE; 6FT LENGTH; LAMBERTIAN DISTRIBUTION; MEDIUM OUTPUT	EXTRUDED ALUMINUM AND STEEL	FLUSH SATIN LENS	RECESSED	TO BE SELECTED BY ARCHITECT	DAMP	INTEGRAL DRIVER, 0-10V DIMMING TO 1%	LED, 489 LUMENS / FT, 3500K, 90CRI	5.6W / FT	UNV	PRUDENTIAL BIONICPRO2 RECESSED LINEAR #BPRO2-REC-FLSH-LED35-90-MO-6'-[FINISH]-SAL-LP-SC-UNV-[CEILING]-DM01 OR APPROVED EQUIVALENT	1. SEE ARCHITECTURAL RCP DRAWINGS FOR CEUILING TYPE.
F6D	RECESSED LINEAR LUMINAIRE WITH 1IN REGRESS; 6FT LENGTH; BATWING DISTRIBUTION; LOW OUTPUT	EXTRUDED ALUMINUM AND STEEL	BATWING LENS	RECESSED	TO BE SELECTED BY ARCHITECT	DAMP	INTEGRAL DRIVER, 0-10V DIMMING TO 1%	LED, 349 LUMENS / FT, 3500K, 90CRI	3.8W / FT	UNV	PRUDENTIAL BIONICPRO2 RECESSED LINEAR #BPRO2-REC-REG1-LED35-90-LO-6'-[FINISH]-BTW-LP-SC-UNV-[CEILING]-DM01 OR APPROVED EQUIVALENT	1. SEE ARCHITECTURAL RCP DRAWINGS FOR CEUILING TYPE.
F6E	RECESSED LINEAR LUMINAIRE; 10FT LENGTH; LAMBERTIAN DISTRIBUTION; STANDARD OUTPUT	EXTRUDED ALUMINUM AND STEEL	FLUSH SATIN LENS	RECESSED	TO BE SELECTED BY ARCHITECT	DAMP	INTEGRAL DRIVER, 0-10V DIMMING TO 1%	LED, 672 LUMENS / FT, 3500K, 90CRI	7.8W / FT	UNV	PRUDENTIAL BIONICPRO2 RECESSED LINEAR #BPRO2-REC-FLSH-LED35-90-SO-10'-[FINISH]-SAL-LP-SC-UNV-[CEILING]-DM01 OR APPROVED EQUIVALENT	1. SEE ARCHITECTURAL RCP DRAWINGS FOR CEUILING TYPE.
F7	NOT USED.											
F8A	SURFACE MOUNTED LINEAR DIRECT/INDIRECT LUMINAIRE; 2IN WIDTH BY 5IN HEIGHT BY 8FT LENGTH; PERIMETER ROOM FILL DOWNLIGHT, SOFT ASYMMETRIC CEILING WASH UPLIGHT	EXTRUDED ALUMINUM	POLYMER LENS	WALL MOUNTED ON 2IN WALL SPACER @ 7'-0" AFF	TO BE SELECTED BY ARCHITECT	DAMP	INTEGRAL DRIVER, 0-10V DIMMING TO 1%	LED, 765 LUMENS / FT, 3500K, 90CRI	7.6W / FT	UNV	PRUDENTIAL BIONICPRO2 LINEAR #BPRO2-LIN-FLSH-LED35-90-LO-8'-[FINISH]-PFL-SCW-SC-UNV-WS2-DM01 OR APPROVED EQUIVALENT	
F8B	SURFACE MOUNTED LINEAR DIRECT/INDIRECT LUMINAIRE; 2IN WIDTH BY 5IN HEIGHT BY 10FT LENGTH; PERIMETER ROOM FILL DOWNLIGHT, SOFT ASYMMETRIC CEILING WASH UPLIGHT	EXTRUDED ALUMINUM	POLYMER LENS	WALL MOUNTED ON 2IN WALL SPACER @ 7'-0" AFF	TO BE SELECTED BY ARCHITECT	DAMP	INTEGRAL DRIVER, 0-10V DIMMING TO 1%	LED, 765 LUMENS / FT, 3500K, 90CRI	7.6W / FT	UNV	PRUDENTIAL BIONICPRO2 LINEAR #BPRO2-LIN-FLSH-LED35-90-LO-10'-[FINISH]-PFL-SCW-SC-UNV-WS2-DM01 OR APPROVED EQUIVALENT	
F9	SURFACE MOUNTED SQUARE LUMINAIRE WITH 2IN DROP LENS; 24IN WIDTH BY 24IN LENGTH	COLD ROLLED STEEL	WHITE SANDBLASTED ACRYLIC DIFFUSER	RECESSED	WHITE	DAMP	INTEGRAL DRIVER, 0-10V DIMMING TO 1%	LED, 4500 LUMENS, 3500K, 90+CRI	40.2W	UNV	3G KUBO #3G-RKU24-L45-H90-35K-UNV-DIM-GCX-DD2-MOD OR APPROVED EQUIVALENT	
F10	2" DIAMETER PENDANT MOUNTED CYLINDER DOWNLIGHT	METAL	NONE	SUSPENDED @ 6-6" AFF	TO BE SELECTED BY ARCHITECT	DAMP	INTEGRAL DRIVER, 0-10V DIMMING TO 1%	LED, 1177 LUMENS, 3500K, 90CRI	12W	UNV	GOTHAM ICO2 #ICO2CC-30/10-AR-LSS-30D-MVOLT-UGZ-RGH-CCAN-C120-90CRI-(FINISH) OR APPROVED EQUIVALENT	
F11	LOW PROFILE LED TAPE LIGHT AT UNDERCABINET	EXTRUDED ALUMINUM	FROSTED ACRYLIC LENS	SURFACE	ANODIZED MATTE	DRY	REMOTE DRIVER, 0-10V DIMMING TO 5%	400 LUMENS / FT, 3500K, 90+CRI	2W / FT	UNV	KELVIX #409-I-(LENGTH)-DK-35K-WH-CP-SV-ULV OR APPROVED EQUIVALENT	1. SEE ARCHITECTURAL DRAWINGS FOR EXACT LENGTH.
F12	NOT USED.											
F13	NOT USED.											
F14	RECESSED HIGH OUTPUT DOWNLIGHT; 6.3IN DIAMETER; FLOW FORMING ALUMINUM REFLECTOR; 40 DEGREE BEAM DISTRIBUTION	EXTRUDED ALUMINUM	LENS	RECESSED	TO BE SELECTED BY ARCHITECT	DAMP	INTEGRAL DRIVER, 0-10V DIMMING TO 10%	LED, 3710 LUMENS, 3500K, 93CRI	40W	277V	METEOR REV 6 #RS6N-40-359-277-STV-40-[FINISH] OR APPROVED EQUIVALENT	
F15	LINEAR PERIMETER LUMINAIRE WITH 1IN REGRESS; 3.5IN WIDE APERTURE; PERIMETER ROOM FILL DISTRIBUTION	EXTRUDED ALUMINUM AND STEEL	POLYMER LENS	RECESSED	TO BE SELECTED BY ARCHITECT	DAMP	INTEGRAL DRIVER, 0-10V DIMMING TO 1%	LED, 604 LUMENS / FT, 3500K, 90CRI	5.6W / FT	UNV	PRUDENTIAL BIONICPRO4 PERIMETER #BPRO4-PER-REG1-LED35-90-MO-11FT-[FINISH]-[FINISH]-PFL-LP-SC-UNV-X3-DM01 OR APPROVED EQUIVALENT	
F16	SUSPENDED LINEAR LUMINAIRE; 1.5IN DIAMETER BY 10FT LENGTH	EXTRUDED ALUMINUM	EXTRUDED ACRYLIC LENS	SUSPENDED @ 6-6" AFF	TO BE SELECTED BY ARCHITECT	DAMP	INTEGRAL DRIVER, 0-10V DIMMING TO 1%	LED, 892 LUMENS / FT, 3500K, 90CRI	11.8W / FT	UNV	PRUDENTIAL PRU1 LINEAR #PRU1-STD-LED35-90-MO-SO-10'-[FINISH]-SAL-CW-UNV-POA96-DM01 OR APPROVED EQUIVALENT	
F17	NOMINAL 41" DIAMETER PENDANT MOUNTED LED LUMINAIRE	ALUMINUM	WHITE HIGH DENSITY POLYETHYLENE DIFFUSER	SUSPENDED	TO BE SELECTED BY ARCHITECT	DAMP	INTEGRAL DRIVER, 0-10V DIMMING TO 0.1%	LED, 11,324 LUMENS, 3500K, 90CRI	109W	UNV	BEGA STUDIO LINE #50274-K35 OR APPROVED EQUIVALENT	1. SEE ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHT.
F18	NOT USED.											
S1	EXTERIOR WALL SCONCE; 11.5IN WIDTH BY 7 IN DEPTH BY 9IN HEIGHT; VISUAL COMFORT WIDE DISTRIBUTION	DIE-CAST ALUMINUM	LENS	WALL MOUNTED @ +7'-6" TO CENTER OF LUMINAIRE	TO BE SELECTED BY ARCHITECT	WET	INTEGRAL DRIVER, 0-10V DIMMING	LED, 1241 LUMENS, 3000K, 80CRI	10W	UNV	LITHONIA WDGE 2 #WDGE2 LED-P1-30K-80CRI-VW-MVOLT-SRM-[FINISH] OR APPROVED EQUIVALENT	
S2A	EXTERIOR CANOPY LUMINAIRE; 15.2IN WIDTH BY 16.1IN LENGTH BY 4.5IN HEIGHT; CONCENTRATED DOWNLIGHT DISTRIBUTION; INTEGRAL MOTION SENSOR	EXTRUDED ALUMINUM	LENS	SURFACE MOUNTED ON CANOPY BEAM	MEDIUM GREY	IP65	INTEGRAL LED DRIVER, STEP DIMMING	LED, 11184 LUMENS, 3000K,70CRI BUG RATING: B3-U0-G1	104W	UNV	GARDCO SLENDERFORM #SFC-MR-CD-48L-700-WW-G2-UNV-MGY OR APPROVED EQUIVALENT	
S2B	TRASH ENCLOSURE LUMINAIRE; 15.2IN WIDTH BY 16.1IN LENGTH BY 4.5IN HEIGHT; CONCENTRATED DOWNLIGHT DISTRIBUTION; INTEGRAL MOTION SENSOR	EXTRUDED ALUMINUM	LENS	SURFACE MOUNTED ON CANOPY BEAM	MEDIUM GREY	IP65	INTEGRAL LED DRIVER, STEP DIMMING	LED, 8982 LUMENS, 3000K,70CRI BUG RATING: B3-U0-G1	82W	UNV	GARDCO SLENDERFORM #SFC-MR-CD-48L-550-WW-G2-UNV-MGY OR APPROVED EQUIVALENT	
S3	SURFACE MOUNTED ROUND DOWNLIGHT; 3.9IN DIAMETER BY 4.4IN TALL, WIDE DISTRIBUTION	ALUMINUM	TOUGHENED SAFETY GLASS	SURFACE	TO BE SELECTED BY ARCHITECT	WET	INTEGRAL DRIVER, 0-10V DIMMING	LED, 766 LUMENS, 3000K, 90+CRI	12W	UNV	BEGA 24 425 #24 425 + K3 OR APPROVED EQUIVALENT	
L-S1	ROUND BOLLARD; 8IN DIAMETER BY 42IN TALL, SYMMETRIC DISTRIBUTION	EXTRUDED ALUMINUM	CLEAR TEMPERED MOLDED GLASS	GRADE MOUNTED	TO BE SELECTED BY ARCHITECT	WET	INTEGRAL DRIVER, 0-10V DIMMING TO 10%	LED, 816 LUMENS, 3000K, 75CRI	25W	UNV	KIM VRB2 LED #VRB2-20L-3K-UV-[FINISH] OR APPROVED EQUIVALENT	
L-S2A	SITE/AREA SINGLE HEAD LUMINAIRE; 18IN WIDE BY 31.6IN LONG BY 11.5IN TALL; INTEGRAL MOTION SENSOR, TYPE 2 DISTRIBUTION	DIE CAST ALUMINUM	NO LENS	POLE MOUNTED TO 16FT TALL SQUARE POLE, POLE TO WITHSTAND 100MPH WINDS WITH GUST FACTOR OF 1.3	TO BE SELECTED BY ARCHITECT	WET	INTEGRAL DRIVER, AUTOMATIC PROFILE STEP DIMMING TO 50%	LED, 6638 LUMENS, 3000K, 70+CRI BUG RATING: B2-U0-G1	50W	UNV	GARDCO GULLWING LED #GL18-APD-MRI-2-50la-4835-WW-UNV-[FINISH] GARDCO STRAIGHT SQUARE ALUMINUM #SSA-[BASE]-4-125-16-D1-DT2-[FINISH]-[OPTIONS] OR APPROVED EQUIVALENT	
L-S2B	SITE/AREA SINGLE HEAD LUMINAIRE; 18IN WIDE BY 31.6IN LONG BY 11.5IN TALL; INTEGRAL MOTION SENSOR, TYPE 3 DISTRIBUTION	DIE CAST ALUMINUM	NO LENS	POLE MOUNTED TO 16FT TALL SQUARE POLE, POLE TO WITHSTAND 100MPH WINDS WITH GUST FACTOR OF 1.3	TO BE SELECTED BY ARCHITECT	WET	INTEGRAL DRIVER, AUTOMATIC PROFILE STEP DIMMING TO 50%	LED, 6106 LUMENS, 3000K, 70+CRI BUG RATING: B1-U0-G2	50W	UNV	GARDCO GULLWING LED #GL18-APD-MRI-3-50la-4835-WW-UNV-[FINISH] GARDCO STRAIGHT SQUARE ALUMINUM #SSA-[BASE]-4-125-16-D1-DT2-[FINISH]-[OPTIONS] OR APPROVED EQUIVALENT	
L-S2C	SITE/AREA SINGLE HEAD LUMINAIRE; 18IN WIDE BY 31.6IN LONG BY 11.5IN TALL; INTEGRAL MOTION SENSOR, TYPE 4 DISTRIBUTION	DIE CAST ALUMINUM	NO LENS	POLE MOUNTED TO 16FT TALL SQUARE POLE, POLE TO WITHSTAND 100MPH WINDS WITH GUST FACTOR OF 1.3	TO BE SELECTED BY ARCHITECT	WET	INTEGRAL DRIVER, AUTOMATIC PROFILE STEP DIMMING TO 50%	LED, 6300 LUMENS, 3000K, 70+CRI BUG RATING: B1-U0-G2	50W	UNV	GARDCO GULLWING LED #GL18-APD-MRI-4-50la-4835-WW-UNV-[FINISH] GARDCO STRAIGHT SQUARE ALUMINUM #SSA-[BASE]-4-125-16-D1-DT2-[FINISH]-[OPTIONS] OR APPROVED EQUIVALENT	
X1	SINGLE-SIDED LED EXIT SIGN	THERMOPLASTIC	ACRYLIC	UNIVERSAL MOUNTING	WHITE	DAMP	INTEGRAL LED DRIVER	LED - GREEN LETTERS	2W	UNV	EVENLITE TELESIS #TLX-AC-GU-W OR APPROVED EQUIVALENT	1. PROVIDE DIRECTIONAL ARROWS AS SHOWN ON PLANS.
X2	DOUBLE-SIDED LED EXIT SIGN	THERMOPLASTIC	ACRYLIC	UNIVERSAL MOUNTING	WHITE	DAMP	INTEGRAL LED DRIVER	LED - GREEN LETTERS	2W	UNV	EVENLITE TELESIS #TLX-AC-GU-W OR APPROVED EQUIVALENT	1. PROVIDE DIRECTIONAL ARROWS AS SHOWN ON PLANS.

NOTES:

1. THIS LUMINAIRE SCHEDULE IS NOT COMPLETE WITHOUT A COPY OF THE PROJECT MANUAL CONTAINING THE ELECTRICAL SPECIFICATIONS.
2. DIMMING CONTROL PROTOCOL (0-10VDC, LINE VOLTAGE, DALI, ETC.) COMPATIBLE WITH LIGHTING CONTROL SYSTEM AS SPECIFIED AND SHOWN ON DRAWINGS.
3. PROVIDE +/- 12 INCH ADJUSTABILITY IN AIRCRAFT CABLE LENGTH WHERE USED.
4. COORDINATE ALL CEILING TYPES WITH LUMINAIRE LOCATIONS PRIOR TO ORDERING LUMINAIRES. COORDINATE INSTALLATION WITH REFLECTED CEILING PLAN.
5. SPECIFIED MANUFACTURERS ARE APPROVED TO SUBMIT BID. INCLUSION DOES NOT RELIEVE MANUFACTURER FROM SUPPLYING PRODUCT AS DESCRIBED.
6. PROVIDE SUBMITTALS THAT INCLUDE THE LUMINAIRE, LAMP AND DIMMABLE LED DRIVER INFORMATION OF EACH LUMINAIRE, WITH APPLICABLE OPTIONS CLEARLY CHECKED OR HIGHLIGHTED. SUBMITTALS NOT INCLUDING THIS INFORMATION WILL BE RETURNED AS REJECTED BY THE ENGINEER OF RECORD.
7. REMOTE DRIVERS: UL LISTED FOR THEIR APPLICATION. DRIVERS MARKED AS UL RECOGNIZED COMPONENT BUT NOT UL LISTED ARE SUBJECT TO REMOVAL AND REPLACEMENT AT NO COST TO OWNER.
8. PROVIDE COMMISSIONING OF THE LIGHTING AND LIGHTING CONTROLS IN ACCORDANCE WITH CALIFORNIA TITLE 24 LIGHTING COMMISSIONING REQUIREMENTS.
9. WEIGHT OF ALL LUMINAIRES ARE 20 LBS OR LESS, U.O.N.

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rev	date	issue
2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

RENEE McCARTHY — No. E23609 — Exp: 03/31/26 — REGISTERED PROFESSIONAL ENGINEER — ELECTRICAL — STATE OF CALIFORNIA

CHABOT M+O
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HAYWARD, CA 94545

plot date:
project number: 20-296
date: 12/11/2024

LUMINAIRE SCHEDULE

E0.02

LIGHTING CONTROL MATRIX: SPACE BY SPACE

SPACE NAME	TYPE OF CONTROLS	CONTROL FUNCTIONS
OFFICE <= 250 SQFT	ON/OFF/DIMMING SWITCH, OCCUPANCY SENSOR	MANUAL ON/OFF/DIMMING CONTROL. AUTO-ON TO 100% WHEN OCCUPANCY IS SENSED, AUTO DIM TO 50% AFTER 15 MINUTES OF VACANCY, FULL OFF AFTER 20 MINUTES OF VACANCY. RECEPTACLES REQUIRING PLUG LOAD CONTROL SHALL BE CONTROLLED BY LOCAL OCCUPANCY SENSOR IN SPACE.
SHOP	ON/OFF/DIMMING SWITCH, ASTRONOMICAL TIMECLOCK	MANUAL ON/OFF/DIMMING CONTROL. AUTO-ON TO 100% POWER ONE HOUR BEFORE BUILDING OPENING HOURS. AUTO-OFF ONE HOUR AFTER BUILDING CLOSING HOURS VIA ASTRONOMICAL TIMECLOCK SCHEDULE. COORDINATE OPERATING HOURS WITH CAMPUS PRIOR TO PROGRAMMING.
LOCKSMITH	ON/OFF/DIMMING SWITCH, OCCUPANCY SENSOR	MANUAL ON/OFF/DIMMING CONTROL. AUTO-ON TO 100% WHEN OCCUPANCY IS SENSED, AUTO DIM TO 50% AFTER 15 MINUTES OF VACANCY, FULL OFF AFTER 20 MINUTES OF VACANCY.
M&O STORAGE, WAREHOUSE, CUSTODIAL	ON/OFF/DIMMING SWITCH VIA LUMINAIRE-INTEGRAL OCCUPANCY SENSOR	MANUAL ON/OFF/DIMMING CONTROL. AUTO-ON TO 100% WHEN OCCUPANCY IS SENSED, AUTO DIM TO 50% AFTER 15 MINUTES OF VACANCY, FULL OFF AFTER 20 MINUTES OF VACANCY.
MEETING ROOM	ON/OFF/DIMMING SWITCH, OCCUPANCY SENSOR	MANUAL ON/OFF/DIMMING CONTROL. AUTO-ON TO 100% WHEN OCCUPANCY IS SENSED, AUTO DIM TO 50% AFTER 15 MINUTES OF VACANCY, FULL OFF AFTER 20 MINUTES OF VACANCY. RECEPTACLES REQUIRING PLUG LOAD CONTROL SHALL BE CONTROLLED BY LOCAL OCCUPANCY SENSOR IN SPACE.
ADMIN	ON/OFF/DIMMING SWITCH, OCCUPANCY SENSOR	MANUAL ON/OFF/DIMMING CONTROL. AUTO-ON TO 100% WHEN OCCUPANCY IS SENSED, AUTO DIM TO 50% AFTER 15 MINUTES OF VACANCY, FULL OFF AFTER 20 MINUTES OF VACANCY.
LOUNGE	ON/OFF/DIMMING SWITCH, OCCUPANCY SENSOR, DAYLIGHT SENSOR	MANUAL ON/OFF/DIMMING CONTROL. AUTO-ON TO 100% WHEN OCCUPANCY IS SENSED, AUTO DIM TO 50% AFTER 15 MINUTES OF VACANCY, FULL OFF AFTER 20 MINUTES OF VACANCY. LIGHTING WITHIN DAYLIT ZONES TO BE AUTOMATICALLY DIMMED BY DAYLIGHT SENSOR. PROVIDE SEPARATE DAYLIGHT CONTROL FOR LUMINAIRES IN EACH TYPE OF DAYLIT ZONE (PRIMARY, SECONDARY). RECEPTACLES REQUIRING PLUG LOAD CONTROL SHALL BE CONTROLLED BY LOCAL OCCUPANCY SENSOR IN SPACE.
LOBBY	ON/OFF/DIMMING SWITCH, DAYLIGHT SENSOR, ASTRONOMICAL TIMECLOCK	MANUAL ON/OFF/DIMMING CONTROL (ACCESSIBLE TO USERS) LIGHTS TO TURN ON ONE HOUR BEFORE BUSINESS OPENING HOURS AND TURN OFF TWO HOURS AFTER BUSINESS IS CLOSED VIA TIME CLOCK SCHEDULE. LIGHTING WITHIN DAYLIT ZONES TO BE AUTOMATICALLY DIMMED BY DAYLIGHT SENSOR. PROVIDE SEPARATE DAYLIGHT CONTROL FOR LUMINAIRES IN EACH TYPE OF DAYLIT ZONE (PRIMARY, SECONDARY, SKYLIT). RECEPTACLES REQUIRING PLUG LOAD CONTROL SHALL BE CONTROLLED BY LOCAL OCCUPANCY SENSOR IN SPACE.
CORRIDOR	ON/OFF/DIMMING SWITCH, OCCUPANCY SENSOR	MANUAL ON/OFF/DIMMING CONTROL. AUTO-ON TO 100% WHEN OCCUPANCY IS SENSED, PARTIAL-OFF TO 50% AFTER 20 MINUTES OF VACANCY. ALL LIGHTING TO BE AUTOMATICALLY SHUT OFF TWO HOURS AFTER BUILDING IS CLOSED VIA TIMECLOCK CONTROL.
STAIRWELL	ON/OFF/DIMMING SWITCH, OCCUPANCY SENSOR, ASTRONOMICAL TIMECLOCK, DAYLIGHT SENSOR	MANUAL ON/OFF/DIMMING CONTROL. AUTO-ON TO 100% WHEN OCCUPANCY IS SENSED. PARTIAL-OFF TO 50% AFTER 20 MINUTES OF VACANCY. ALL LIGHTING TO BE AUTOMATICALLY SHUT OFF TWO HOURS AFTER BUILDING IS CLOSED VIA TIMECLOCK CONTROL. COORDINATE OPERATING HOURS WITH CAMPUS PRIOR TO PROGRAMMING. LIGHTING WITHIN DAYLIT ZONES TO BE AUTOMATICALLY DIMMED BY DAYLIGHT SENSOR. PROVIDE SEPARATE DAYLIGHT CONTROL FOR LUMINAIRES IN EACH TYPE OF DAYLIT ZONE (PRIMARY, SECONDARY).
RESTROOM - SINGLE STALL	ON/OFF SWITCH WITH INTEGRAL OCCUPANCY SENSOR	MANUAL ON/OFF CONTROL. AUTO-ON TO 100% WHEN OCCUPANCY IS SENSED, AUTO-OFF AFTER 15 MINUTES OF VACANCY.
RESTROOM - MULTI-STALL, LOCKER	ON/OFF SWITCH, OCCUPANCY SENSOR	MANUAL ON/OFF CONTROL . AUTO-ON TO 100% WHEN OCCUPANCY IS SENSED, AUTO-OFF AFTER 15 MINUTES OF VACANCY.
CLOSET	ON/OFF WITH INTEGRAL OCCUPANCY SENSOR	MANUAL ON/OFF CONTROL. OCCUPANCY SENSOR IN VACANCY MODE (TURN ON WITH MANUAL INPUT ONLY), AUTO-OFF AFTER 15 MINUTES OF VACANCY.
ELECTRICAL ROOM	ON/OFF SWITCH	MANUAL ON/OFF CONTROL.
ELEVATOR MACHINE ROOM, MECHANICAL, FIRE RISER, CUSTODIAL KEY, BDF, SMALL STORAGE, JANITOR, IDF	ON/OFF/DIMMING SWITCH WITH LUMINAIRE-INTEGRAL OCCUPANCY SENSOR	MANUAL ON/OFF CONTROL. AUTO-ON TO 100% WHEN OCCUPANCY IS SENSED, AUTO DIM TO 50% AFTER 15 MINUTES OF VACANCY, FULL-OFF AFTER 20 MINUTES OF VACANCY.
BUILDING MOUNTED ENTRY/PATHWAY	ON/OFF/DIMMING SWITCH, ASTRONOMICAL TIMECLOCK, PHOTO-CELL	MANUAL ON/OFF CONTROL. AUTO-ON TO 100% POWER IN THE EVENING HOUR, AUTO DIM TO 50% AFTER 2 HOURS OF BUILDING CLOSING, FULL-OFF IN THE MORNING HOURS VIA ASTRONOMICAL TIMECLOCK SCHEDULE. PHOTO-CELL TO OVERRIDE TIMECLOCK WHEN DAYLIGHT IS NOT AVAILABLE. COORDINATE OPERATING HOURS WITH CAMPUS PRIOR TO PROGRAMMING.
GRADE-MOUNTED PATHWAY (BOLLARD)	ON/OFF/DIMMING SWITCH, ASTRONOMICAL TIMECLOCK	MANUAL ON/OFF/DIMMING CONTROL. AUTO-ON TO 100% POWER IN THE EVENING HOUR, AUTO DIM TO 50% AFTER 2 HOURS OF BUILDING CLOSING, FULL-OFF IN THE MORNING HOURS VIA ASTRONOMICAL TIMECLOCK SCHEDULE. PHOTO-CELL TO OVERRIDE TIMECLOCK WHEN DAYLIGHT IS NOT AVAILABLE.
COVERED FLEET PARKING	ON/OFF/DIMMING SWITCH, MOTION SENSOR, ASTRONOMICAL TIMECLOCK	MANUAL ON/OFF/DIMMING CONTROL. AUTO-ON TO 100% WHEN OCCUPANCY IS SENSED, PARTIAL-OFF TO 50% AFTER 20 MINUTES. AFTER MIDNIGHT, AUTO-ON TO 75% WHEN OCCUPANCY IS SENSED, PARTIAL-DIM TO 20% AFTER 10 MINUTES OF VACANCY VIA ASTRONOMICAL TIMECLOCK CONTROL.COORDINATE OPERATING HOURS WITH CAMPUS PRIOR TO PROGRAMMING.
TRASH ENCLOSURE	ON/OFF SWITCH, MOTION SENSOR	MANUAL ON/OFF/DIMMING CONTROL. AUTO-ON TO 100% WHEN OCCUPANCY IS SENSED, AUTO DIM TO 50% AFTER 15 MINUTES OF VACANCY, FULL OFF AFTER 20 MINUTES OF VACANCY.
PARKING AREA	ON/OFF/DIMMING SWITCH, LUMINAIRE-INTEGRAL MOTION SENSOR, ASTRONOMICAL TIMECLOCK	MANUAL ON/OFF/DIMMING CONTROL. AUTO-ON TO 100% POWER IN THE EVENING HOUR, AUTO DIM TO 50% AFTER 2 HOURS OF BUILDING CLOSING, FULL-OFF IN THE MORNING HOURS VIA ASTRONOMICAL TIMECLOCK SCHEDULE. COORDINATE OPERATING HOURS WITH CAMPUS PRIOR TO PROGRAMMING. AUTO-ON TO 100% WHEN OCCUPANCY IS SENSED, PARTIAL-OFF TO 50% AFTER 20 MINUTES.
ALL INTERIOR AREAS WITH EMERGENCY LIGHTING	EMERGENCY LIGHTING BYPASS RELAY (UL924)	EMERGENCY LIGHTING SHALL BE CONTROLLED WITH NORMAL LIGHTING IN SPACES WHERE EMERGENCY LIGHTING IS PROVIDED. DURING EMERGENCY EVENT, LIGHTING CONTROLS SHALL BE BYPASSED AND EMERGENCY LIGHTING SHALL TURN FULL ON. EMERGENCY LIGHTING INDICATED ON PLANS.
ALL INTERIOR AREAS	DEMAND RESPONSE CONTROLS	ALL LIGHTING IN AREAS WHERE LIGHTING POWER DENSITY EXCEEDS 0.5W/SF OR DIMMING CONTROLS ARE PROVIDED SHALL HAVE NETWORKED LIGHTING CONTROLS SUCH THAT A 15% REDUCTION IN LIGHTING POWER IS AUTOMATICALLY PROVIDED IN RESPONSE TO A DEMAND RESPONSE SIGNAL PER CE

GENERAL NOTES:

A. BASIS OF DESIGN IS WATTSTOPPER DLM WIRED.
B. THIRD PARTY INTEGRATION READY WITH BAS THROUGH BACNET/IP.
C. DEMAND RESPONSE IS REQUIRED PER CA TITLE 24 FOR BUILDINGS WITH LIGHTING SYSTEMS HAVING A TOTAL INSTALLED LIGHTING POWER OF 4,000 WATTS OR GREATER.
D. REFER TO SPECIFICATION SECTION 26 09 25 IN CONJUNCTION WITH THIS SCHEDULE.
E. LIGHTING CONTROLS TO COMPLY WITH CALIFORNIA TITLE 24 2022.
F. PROVIDE INITIAL START UP TRAINING WITH OWNER AND DESIGN TEAM, AND AN ADDITIONAL VISIT FOR ADJUSTMENTS ONCE AFTER OCCUPANCY.

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rev	date	issue
2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

REGISTERED PROFESSIONAL ENGINEER
DUANE McCARTY
No. E23809
Exp: 03/31/26
ELECTRICAL
STATE OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD,
HAYWARD, CA 94545

plot date:
project number: 20-296
date: 12/11/2024

LIGHTING CONTROL MATRIX

E0.03

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
This document is used to demonstrate compliance with mandatory requirements in 130.5, for electrical systems in newly constructed nonresidential and hotel/motel occupancies and 160.6 and 160.9 for electrical systems in newly constructed multifamily occupancies. Additions and alterations to electrical service systems in nonresidential and hotel/motel occupancies will also use this document to demonstrate compliance per 141.0(a) or 141.0(b)2P for alterations. For multifamily addition or alterations compliance will be documented per 180.1(a) or 180.2 (b)4Bvii		
Project Name: Chabot M&O	**Report Page:**	**(Page 1 of 6)**
Project Address: 25555 Hesperian Blvd	**Date Prepared:**	8/25/2023

A. GENERAL INFORMATION

01	Project Location (city)	Hayward	02	Climate Zone	1
			03	Occupancy Types Within Project:	All Other OccupanciesConvention CenterOfficeSupport Areas

B. PROJECT SCOPE

This table includes electrical systems that are within the scope of the permit application.

01	02	03	04	05	06	07
Electrical Service Designation/ Description	Scope of Work[1]	Rating[2] (kVA)	Utility Provided Metering System Exception to 130.5(a)/ 160.6(a)[3]	System subject to CA Elec Code Article 517 Exception to 130.5(a)and (b)	Demand Response Controls	Provides power to dwelling units/common living areas only in multifamily occupancy
New System	New electrical service equipment and meter	1000	☐	☐	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections 120.2/ 160.3, 130.1/ 160.5, and 130.3/ 160.5, and mechanical, indoor lighting, and sign lighting Certificate of Compliance documents will indicate when demand response controls are required.	☐

[1] FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c)/160.6(c), no other requirements from 130.5/160.6 are required.
[2] If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.
[3] Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name: Chabot M&O	**Report Page:**	**(Page 2 of 6)**
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C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through J. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

01		02		03		04	05	06
Service Electrical Metering 130.5(a)/ 160.6(a) (See Table F)	AND	Separation for Monitoring 130.5(b)/ 160.6(b) (See Table G)	AND	Voltage Drop 130.5(c)/ 160.6(c) (See Table H)	AND	Controlled Receptacles 130.5(d)/ 160.6(d) (See Table I)	Electric Ready 160.9 (See Table J)	**Compliance Results**
Yes	AND	Yes	AND	Yes	AND	Yes	Yes	COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. SERVICE ELECTRICAL METERING

This table includes new or replacement electrical service systems OR equipment to demonstrate compliance with 130.5(a) / 160.6(a). For multifamily occupancies, submetered systems that provide power to common use areas must meet the following metering requirements. Submetered systems providing power to dwelling units do not.

01	02	03				04	05	
Electrical Service Designation/ Description	Rating[1] (kVA)	Required Metering Capabilities per Table 130.5-A				Location of Requirements in Construction Documents	Field Inspector	
		Instantaneous Demand (kW)	Historical Peak Demand (kW)	Tracking kWh for user-defined period	kWh per rate period		Pass	Fail
New System	1000	☒	☒	☒	☐	E5.01	☐	☐

[1] FOOTNOTES: If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
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	Date Prepared:	8/25/2023

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with 130.5(b)/ 160.6(b). Any load types that are not included in the service do not need to be shown. For multifamily occupancies, submetered systems that provide power to dwelling units do not need to meet these separation requirements and therefore load types on those submetered systems also do not need to be shown.

01	02	03	04	05	
Load Type per Table 130.5-B[1]	Minimum Required Separation of Load per Table 130.5-B	Compliance Method[2]	Location of Requirements in Construction Documents	Field Inspector	
				Pass	Fail
New System					
Lighting including exit, egress and exterior	All lighting disaggregated by floor, type or area	Method 2: Switchboards/ motor control centers/ panelboard supply other distribution equipment with loads disaggregated for each load type	E6.01, E6.02	☐	☐
Plug Loads and appliances less than 25kVA	All plug loads separated by floor, type or area Groups of plug loads exceeding 25 kVA connected load in an area less than 5000 sf	Method 2: Switchboards/ motor control centers/ panelboard supply other distribution equipment with loads disaggregated for each load type	E6.01, E6.02	☐	☐
HVAC systems and components	All HVAC in aggregate and each HVAC load rated at least 50 kVA	Method 2: Switchboards/ motor control centers/ panelboard supply other distribution equipment with loads disaggregated for each load type	E6.01, E6.02	☐	☐

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name: Chabot M&O	**Report Page:**	**(Page 4 of 6)**
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G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with 130.5(b)/ 160.6(b). Any load types that are not included in the service do not need to be shown. For multifamily occupancies, submetered systems that provide power to dwelling units do not need to meet these separation requirements and therefore load types on those submetered systems also do not need to be shown.

01	02	03	04	05	
Load Type per Table 130.5-B[1]	Minimum Required Separation of Load per Table 130.5-B	Compliance Method[2]	Location of Requirements in Construction Documents	Field Inspector	
				Pass	Fail

** NOTES: If "Other*" is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below.*

[1] FOOTNOTES: For each separate load type, up to 10% of the connected load may be of any type.
[2] Method 1: Switchboards/ motor control centers/ panelboard loads disaggregated for each load type.
Method 2: Switchboards/ motor control centers/ panelboard supply other distribution equipment with loads disaggregated for each load type.
Method 3: Branch circuits serve load types individually and provisions for adding future branch circuit monitoring.
Method 4: Complete metering system measures and reports loads by type.
See Chapter 8 of the Nonresidential Compliance Manual for more detail on Compliance Methods.

H. VOLTAGE DROP

This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with 130.5(c)/ 160.6(c). For alterations, only the altered circuits must demonstrate compliance per 141.0(b)2Pii/ 180.2(b)4Bviic.

01	02			03	04	05	
Electrical Service Designation/Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method			Location of Voltage Drop Calculations[1]	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector	
						Pass	Fail
New System	☒	Voltage drop less than 5%	☐	Permitted by CA Elec Code (Exception to 130.5(c))*	Attached	E5.01	☐	☐

** NOTES: If "Permitted by CA Elec Code *" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.*

New System

[1] FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name: Chabot M&O	**Report Page:**	**(Page 5 of 6)**
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I. CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with 130.5(d)/ 160.6(d).. Both controlled and uncontrolled receptacles must be provided in office areas, lobbies, conference rooms, kitchen areas in office spaces, copy rooms and hotel/motel guest rooms.

01	02	03	04	05	06	07	
Room name or Description	Location/ Type of Controlled Receptacles[1]	Shut-Off Controls	Demand Responsive Controls	Permanent Durable Marking Will be Used	Location of Requirements in Construction Documents	Field Inspector	
						Pass	Fail
New System	Within 6ft of uncontrolled receptacle	Occupancy Sensor	NA: Building does not require demand responsive lighting controls per 110.12(c)	☒	E3.01, E3.02	☐	☐

** NOTES: If "Other*" is selected under Shut-Off Controls above, please indicate how compliance has been achieved in the space provided below.*

[1] FOOTNOTES: Receptacles dedicated to refrigerators and water dispensers in kitchens, located a minimum of 6ft above the floor specifically for clocks, network copiers, fax machines, A/V and data equipment other than personal computers in copy rooms, circuits rated more than 20 Amps, or connected to a UPS that are intended to be in continuous use and are marked to differentiate them from other receptacles or circuits are excepted from the requirements. .

J. ELECTRIC READY BUILDINGS

This section does not apply to this project.

K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-ELC-E - Must be submitted for all buildings

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name: Chabot M&O	**Report Page:**	**(Page 6 of 6)**
Project Address: 25555 Hesperian Blvd	**Date Prepared:**	8/25/2023

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Shane McCarthy	Documentation Author Signature: Shane McCarthy
Company: Interface Engineering Inc.	Signature Date: 2023-08-25
Address: 49 Stevenson St, Suite 660	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: San Francisco CA 94105	Phone: 415-489-7240

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Shane McCarthy	Responsible Designer Signature: Shane McCarthy
Company: Interface Engineering Inc.	Date Signed: 2023-08-25
Address: 49 Stevenson St, Suite 660	License: E23849
City/State/Zip: San Francisco CA 94105	Phone: 415-489-7240

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.		
Project Name: Chabot M&O	**Report Page:**	**(Page 1 of 10)**
Project Address: 25555 Hesperian Blvd	**Date Prepared:**	8/25/2023

A. GENERAL INFORMATION

01	Project Location (city)	Hayward	04	Total Conditioned Floor Area (ft²)	30,109
02	Climate Zone	3	05	Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	2

● Convention Center ● Office ● Support Areas ● All Other Occupancies

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	Area Category Method	30109	Area Category Method	0
☐ New Lighting System - Parking Garage				
Total Area of Work (ft²)	30109		0	

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Chabot M&O	**Report Page:**	**(Page 2 of 10)**
	Date Prepared:	8/25/2023

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)						Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)				Compliance Results
	01	02	03	04		05	06	07		08	09
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	=	**Total Allowed** (Watts)	≥	Total Designed (Watts)	Adjustments PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)	=	**Total Adjusted** (Watts) *includes Adjustments	**05 must be >= 08 140.6 / 170.2(e)**
	(See Table I)	(See Table I)	(See Table J)	(See Table K)				(See Table F)	(See Table P)			
Conditioned		15,493.1	0		=	15,493	≥	13,220	0	=	13220	COMPLIES
Unconditioned					=		≥			=		
Controls Compliance (See Table H for Details)												COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)												

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Chabot M&O	**Report Page:**	**(Page 3 of 10)**
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F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector	
									Pass	Fail
F1G	F1G	No	NA	60	Mfr. Spec	19	No	1,140	☐	☐
30	F8B	No	NA	7.6	Mfr. Spec		No	0	☐	☐
F10	F10	No	NA	20	Mfr. Spec	6	No	120	☐	☐
F11	F11	No	NA	16.4	Mfr. Spec	3	No	49.2	☐	☐
F12	F12	No	NA	35	Mfr. Spec	1	No	35	☐	☐
F13	F13	No	NA	28.8	Mfr. Spec	1	No	28.8	☐	☐
F14A	F14A	No	NA	40	Mfr. Spec	6	No	240	☐	☐
F14B	F14B	No	NA	60	Mfr. Spec	4	No	240	☐	☐
F15	F15	No	NA	5.6	Mfr. Spec	22	No	123.2	☐	☐
F16	F16	No	NA	11.8	Mfr. Spec	10	No	118	☐	☐
F1A	F1A	No	NA	121	Mfr. Spec	40	No	4,840	☐	☐
F1B	F1B	No	NA	81	Mfr. Spec	11	No	891	☐	☐
F1C	F1C	No	NA	59	Mfr. Spec	4	No	236	☐	☐
F1D	F1D	No	NA	30	Mfr. Spec	1	No	30	☐	☐
F1F	F1F	No	NA	81	Mfr. Spec	2	No	162	☐	☐
F1G	F1G	No	NA	60	Mfr. Spec	26	No	1,560	☐	☐
F1H	F1H	No	NA	30	Mfr. Spec	7	No	210	☐	☐
F2A	F2A	No	NA	8.8	Mfr. Spec	50	No	440	☐	☐
F2B	F2B	No	NA	13.7	Mfr. Spec	30	No	411	☐	☐
F3	F3	No	NA	13.7	Mfr. Spec	2	No	27.4	☐	☐

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STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
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F. INDOOR LIGHTING FIXTURE SCHEDULE

F4	F4	No	NA	24.7	Mfr. Spec	16	No	395.2	☐	☐
F5	F5	No	NA	7.5	Mfr. Spec	22	No	165	☐	☐
F6A	F6A	No	NA	7.8	Mfr. Spec	16	No	124.8	☐	☐
F6B	F6B	No	NA	7.8	Mfr. Spec	6	No	46.8	☐	☐
F6C	F6C	No	NA	5.6	Mfr. Spec	54	No	302.4	☐	☐
F6D	F6D	No	NA	3.8	Mfr. Spec	72	No	273.6	☐	☐
F7	F7	No	NA	70	Mfr. Spec	1	No	70	☐	☐
F8A	F8A	No	NA	7.6	Mfr. Spec	8	No	60.8	☐	☐
F8B	F8B	No	NA	7.6	Mfr. Spec	10	No	76	☐	☐
F9	F9	No	NA	40.2	Mfr. Spec	20	No	804	☐	☐
							Total Designed Watts: CONDITIONED SPACES	13,220		

[1]*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

[2]*Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
		Field Inspector	
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	Pass	Fail
Required >= 4,000W subject to multilevel	See Area/Space Level Controls	☐	☐

STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
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H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Field Inspector	
								Pass	Fail
OFFICES	Office (<=250 square feet)	Readily Accessible	Dimmer	Partial On 130.1(c)/ 160.5(b)4C	NA: Garage daylight adaption	NA: Garage daylight adaption	No	☐	☐
OFFICES	Office (>250 square feet)	Readily Accessible	Dimmer	Partial On 130.1(c)/ 160.5(b)4C	NA: Garage daylight adaption	NA: Garage daylight adaption	No	☐	☐
LOCKSMITH	All Other Space Types	Readily Accessible	Dimmer	Partial On 130.1(c)/ 160.5(b)4C	NA: Garage daylight adaption	NA: Garage daylight adaption	No	☐	☐
SHOP, M&O STORAGE	Auto Repair	Readily Accessible	Dimmer	Occupancy Sensor	NA:Garage < 36sf opening	NA:Garage < 36sf opening	No	☐	☐
WAREHOUSE, CUSTODIAL	Commercial Industrial Storage Area	Readily Accessible	Dimmer	Occupancy Sensor	NA:Garage < 36sf opening	NA:Garage < 36sf opening	No	☐	☐
MEETING ROOM	Convention, Conference, Multipurpose and Meeting Center	Readily Accessible	Dimmer	Partial On 130.1(c)/ 160.5(b)4C	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
ADMIN	Office (<=250 square feet)	Readily Accessible	Dimmer	Partial On 130.1(c)/ 160.5(b)4C	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
LOUNGE	Lounge	Readily Accessible	Dimmer	Partial On 130.1(c)/ 160.5(b)4C	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
CORRIDOR	Corridor	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐

STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
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H. INDOOR LIGHTING CONTROLS (Not including PAFs)

STAIRWELL	Stairwell	Readily Accessible	Dimmer	Countdown Timer	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
RESTROOM	Restroom	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
ELEC ROOM	Electrical Mechancial Telephone Room	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
ELEV MACHINE ROOM, MECH FIRE RISER, CUSTODIAL KEY, BDF, IDF, SMALL STORAGE, JANITOR	Electrical Mechancial Telephone Room	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
BUILDING ENTRY	Main Entry Lobby	Readily Accessible	Dimmer	Countdown Timer	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
							13		
							Plan Sheet Showing Daylit Zones:		

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used .

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft^2)	Area (ft^2)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
Storage/Warehouse	All Other Space Types	0.4	5,388	2,155.2	No	No
MEP	Electrical Mechancial Telephone Room	0.4	1,201	480.4	No	No
Restrooms	Restroom	0.65	727	472.6	No	No
Stairwell	Stairwell	0.6	1,603	961.8	No	No
Maintenance Area	Auto Repair	0.55	13,908	7,649.4	No	No
Corridor	Corridor	0.4	3,103	1,241.2	No	No
Office	Office (<=250 square feet)	0.65	1,070	695.5	No	No

STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Chabot M&O	**Report Page:**	**(Page 7 of 10)**
	Date Prepared:	8/25/2023

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Lounge	Lounge	0.55	1,829	1,006	No	No
Meeting Area	Convention, Conference, Multipurpose and Meeting Center	0.75	850	637.5	No	No
Locker Rooms	Locker/Dressing Room	0.45	430	193.5	No	No
		TOTALS:	30,109	15,493.1	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

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CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
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P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-LTI-E - Must be submitted for all buildings

STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
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V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	SHOP, M&O STORAGE; WAREHOUSE, CUSTODIAL; CORRIDOR; STAIRWELL; RESTROOM; ELEC ROOM; ELEV MACHINE ROOM, MECH FIRE RISER, CUSTODIAL KEY, BDF, IDF, SMALL STORAGE, JANITOR; BUILDING ENTRY;
NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	Whole Building Demand Response;

STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Chabot M&O	**Report Page:**	**(Page 10 of 10)**
Project Address: 25555 Hesperian Blvd	**Date Prepared:**	8/25/2023

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Shane McCarthy	Documentation Author Signature:
Company: Interface Engineering Inc.	Signature Date: 2023-08-25
Address: 49 Stevenson St, Suite 660	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: San Francisco CA 94105	Phone: 415-489-7240

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Shane McCarthy	Responsible Designer Signature:
Company: Interface Engineering Inc.	Date Signed: 2023-08-25
Address: 49 Stevenson St, Suite 660	License: E23849
City/State/Zip: San Francisco CA 94105	Phone: 415-489-7240

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2L for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)6, 180.1(a) and 180.2(b)4Bv for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities.		
Project Name: Chabot M&O	**Report Page:**	**(Page 1 of 11)**
Project Address: 25555 Hesperian Blvd	**Date Prepared:**	8/25/2023

A. GENERAL INFORMATION

01	Project Location (city)	Hayward	04	Total Illuminated Hardscape Area (ft^2)	32041
02	Climate Zone	3			
03	Outdoor Lighting Zone per Title 24 Part 1 10.114 or as designated by Authority Having Jurisdiction (AHJ):				
☐	LZ-0: Very Low - Undeveloped Parkland	☐ LZ-2: Moderate - Urban Clusters	☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval		
☐	LZ-1: Low - Rural Areas	☒ LZ-3: Moderately High - Urban Areas			
05	Occupancy Types within Project				

● Convention Center ● Office ● Support Areas ● Warehouse

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alterations.

My Project Consists of:

01	02	
☒ New Lighting System	Must Comply with Allowances from 140.7 / 170.2(e)6	
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)? ○ Yes ○ No	
03	04	05
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method
☐ < 10% ☐ >= 10% and < 50% ☐ >= 50%		

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

[1] *FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.*

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Chabot M&O	**Report Page:**	**(Page 2 of 11)**
	Date Prepared:	8/25/2023

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv												Compliance Results		
01		02		03		04		05		06		07		08	09
General Hardscape Allowance 140.7(d)1 / 170.2(e)6 (See Table I)	+	Per Application 140.7(d)2 / 170.2(e)6 (See Table J)	+	Sales Frontage 140.7(d)2 (See Table K)	+	Ornamental 140.7(d)2 / 170.2(e)6 (See Table L)	+	Per Specific Area 140.7(d)2 / 170.2(e)6 (See Table M)	OR	Existing Power Allowance 141.0(b)2L / 180.2(b)4Bv (See Table N)	=	**Total Allowed** (Watts)	≥	**Total Actual** (Watts)	**07 must be >= 08**
923	+	19	+	---	+	---	+	1,206	OR	---	=	2,148	≥	2,036	COMPLIES
										Shielding Compliance (See Table G for Details)					COMPLIES
										Controls Compliance (See Table H for Details)					COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

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brick.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-121159 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 2/19/2025

CHABOT COLLEGE

CLIENT
CHABOT COLLEGE
25555 HESPERIAN BLVD
HAYWARD, CA 94545

ARCHITECT
HGA
405 14th Street, Suite 500
Oakland, CA 94612
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INTERFACE ENGINEERING

PROJECT 2020-0515
CONTACT Ali Durrani

49 Stevenson Street, Suite 660
San Francisco, CA 94105
TEL 415.489.7240
www.interfaceengineering.com

rev	date	issue
2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

REGISTERED PROFESSIONAL ENGINEER SHANE M. MCCARTHY No. E23849 Exp: 03/31/26 ELECTRICAL STATE OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD,
HAYWARD, CA 94545

plot date:
project number: 20-296
date: 12/11/2024

TITLE 24 - ELECTRICAL

E0.05

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F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1, 2]	How is Wattage determined	Total Number Luminaires[2]	Luminaire Status[3]	Excluded per 140.7(a) / 170.2(e)6A	Design Watts	Cutoff Req. > 6,200 initial lumen output 130.2(b) / 160.5(c)1[4]	Field Inspector	
										Pass	Fail
L-S1	L-S1	☐ Linear	25	Mfr. Spec	2	New	☐	50	NA: < 6200 lumens	☐	☐
L-S2A	L-S2A	☐ Linear	50	Mfr. Spec	1	New	☐	50	Provided	☐	☐
L-S2B	L-S2B	☐ Linear	50	Mfr. Spec	8	New	☐	400	Provided	☐	☐
L-S2C	L-S2C	☐ Linear	50	Mfr. Spec	2	New	☐	100	Provided	☐	☐
S1	S1	☐ Linear	10	Mfr. Spec	30	New	☐	300	NA: < 6200 lumens	☐	☐
S2A	S2A	☐ Linear	104	Mfr. Spec	9	New	☐	936	Provided	☐	☐
S2B	S2B	☐ Linear	82	Mfr. Spec	2	New	☐	164	Provided	☐	☐
S3	S3	☐ Linear	12	Mfr. Spec	3	New	☐	36	NA: < 6200 lumens	☐	☐
								Total Design Watts:	2036		

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b)

[1] *FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)*
[2] *For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.*
[3] *Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.*

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F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02	03	04	05	06	07	08	09	10

[4] *Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)*

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G. SHIELDING REQUIREMENTS (BUG)

This table includes fixtures of >=6,200 initial lumens indicated on Table F as needing to comply with Shielding Requirements. Maximum lumens can be found in Title 24, Part 11, Section 5.106.8.

01	02	03	04	05	06	07	08	09	10	11	12	
Name or Item Tag	Complete Luminaire Description	Backlight Rating[2]			Uplight Rating[2]			Glare Rating (Lumens)[2]			Field Inspector	
		Mounting Height[1]	Max Allowable Backlight Rating[3]	Backlight Rating Per Design	Lighting type	Max Allowable Uplight Rating[3]	Uplight Rating Per Design	Mounting Height[1]	Max Allowable Glare Rating[3]	Glare Rating Per Design	Pass	Fail
S2A	S2A	2 MH from property line	No Limit	B3	All other outdoor lighting, including decorative	U3	U0	> 2 MH from property line	G3	G1	☐	☐
L-S2A	L-S2A	2 MH from property line	No Limit	B2	Area Lighting	U0	U0	> 2 MH from property line	G3	G1	☐	☐
L-S2B	L-S2B	2 MH from property line	No Limit	B1	Area Lighting	U0	U0	> 2 MH from property line	G3	G2	☐	☐
L-S2C	L-S2C	2 MH from property line	No Limit	B1	Area Lighting	U0	U0	> 2 MH from property line	G3	G2	☐	☐
S2B	S2B	2 MH from property line	No Limit	B3	All other outdoor lighting, including decorative	U3	U0	> 2 MH from property line	G3	G1	☐	☐

[1] *FOOTNOTES: Mounting Height is labeled MH in this table.*
[2] *Authority Having Jurisdiction may ask for Luminaire cut sheets or other documentation to confirm luminaire type, uplight ratings and glare ratings used for compliance per 130.2(b)/ 160.5(c)*
[3] *BUG ratings with a lower number than the 'Max Allowable' are compliant. Ex. If Max Allowable is Bug Rating B4, then B0, B1, B2 and B3 are all compliant.*

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CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
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H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01	02	03	04	05	
Area Description	Shut-Off 130.2(c)1 / 160.5(c)	Auto-Schedule 130.2(c)2 / 160.5(c)	Motion Sensor 130.2(c)3 / 160.5(c)	Field Inspector	
				Pass	Fail
EXTERIOR BUILDING MOUNTED LIGHTING	Photocontrol	Provided	WallGTE24Ft	☐	☐

[1] *FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.*
[2] *Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.*
[3] *Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.*

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Chabot M&O	**Report Page:**	**(Page 7 of 11)**
	Date Prepared:	8/25/2023

I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))

This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" Allowances are per Table 140.7-B /Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.
Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

	01				
	"Use it or lose it" Allowance (select all that apply) (select all that apply)				
☒ General Hardscape Allowance Table I (below)	☒ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☒ Per Specific Area Table M	

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel

02	03	04	05	06	07	08	09
Area Description	Area Wattage Allowance (AWA)			Linear Wattage Allowance (LWA)			Total General AWA + LWA (Watts)
	Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	
Site Lighting	27909	0.021	586.1	0	0.2	0	586
Pedestrian Hardscape	4132	0.021	86.8	0	0.2	0	87
						Initial Wattage Allowance for Entire Site (Watts):	250
						Instances of Initial Wattage Allowance (LZ 0 only)[1]	
						Total General Hardscape Allowance (Watts):	923

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
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J. LIGHTING ALLOWANCE: PER APPLICATION

This table includes areas using the wattage allowance per application from Table 140.7-B / Table 170.2-S.

01	02	03	04	05	06	07	08	09	10
Area Description	Application per Table 140.7-B[1]	CALCULATED ALLOWANCE (Watts)			DESIGN WATTS				Additional Allowance (Watts)
		# of Locations	Allowance per Location[2]	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	
Building Entrance	Building Entrance/Exit	1	19	19	S3	12	3	36	19
							Total Design Watts for this Area:	36	
							Total Allowance (Watts) All Areas:		19

[1] *FOOTNOTES: Primary entrance applications are only available for senior care facilities, healthcare facilities, police stations, hospitals, fire stations, and emergency vehicle facilities.*
[2] *The Allowance per Location for ATMs is 100W for the first ATM and 35W for each additional per Table 140.7-B /Table 170.2-S.*
[3] *For luminaires indicated in Table F as linear, wattage in column 07 is W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.*

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

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CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
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	Date Prepared:	8/25/2023

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This table includes areas using the wattage allowance per specific area from Table 140.7-B /Table 170.2-S. More than one specific area allowance may be taken in a single project, if applicable. However, multiple specific area allowances may not be taken for the exact same area on the site.

01	02	03	04	05	06	07	08	09	10
Area Description	Specific Area Type per Table 140.7-B	CALCULATED ALLOWANCE (Watts)			DESIGN WATTS				Additional Allowance (Watts)
		Specific Area (ft²)[1]	Allowed Density (W/ft²)	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	
Building Entry Doors	BuildingFacade	4050	0.2	688.5	S1	10	27	270	270
							Total Design Watts for this Area:	270	
Covered Shop	ServiceStationCanopy	2000	0.6	1160	S2A	104	9	936	936
							Total Design Watts for this Area:	936	
							Total Allowance (Watts) All Areas:		1206

[1] *FOOTNOTES: See Table 140.7-B /Table 170.2-S for rules for calculating the specific areas (ft²) for these additional lighting allowances.*
[2] *For luminaires indicated in Table F as linear, wattage in column 07 is W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.*

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-LTO-E - Must be submitted for all buildings

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Chabot M&O	**Report Page:**	**(Page 10 of 11)**
	Date Prepared:	8/25/2023

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	EXTERIOR BUILDING MOUNTED LIGHTING;

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Chabot M&O	**Report Page:**	**(Page 11 of 11)**
Project Address: 25555 Hesperian Blvd	**Date Prepared:**	8/25/2023

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Shane McCarthy	Documentation Author Signature: Shane McCarthy
Company: Interface Engineering Inc.	Signature Date: 2023-08-25
Address: 49 Stevenson St, Suite 660	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: San Francisco CA 94105	Phone: 415-489-7240

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Shane McCarthy	Responsible Designer Signature: Shane McCarthy
Company: Interface Engineering Inc.	Date Signed: 2023-08-25
Address: 49 Stevenson St, Suite 660	License: E23849
City/State/Zip: San Francisco CA 94105	Phone: 415-489-7240

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www.hga.com

INTERFACE ENGINEERING
PROJECT 2020-0515
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2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

REGISTERED PROFESSIONAL ENGINEER
SHANE M. McCARTHY
No. E23849
Exp: 03/31/26
ELECTRICAL
STATE OF CALIFORNIA

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HAYWARD, CA 94545

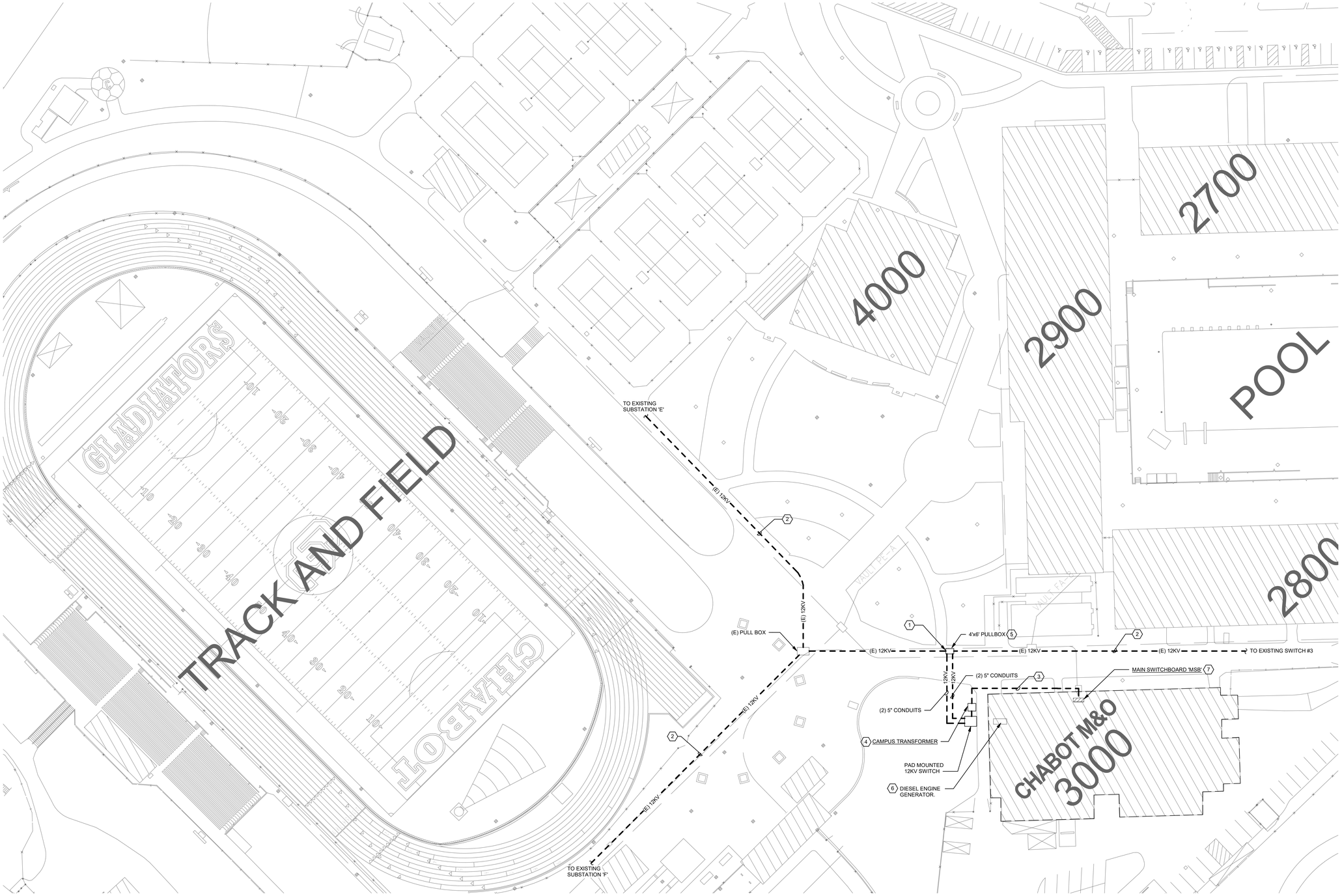
plot date:
project number: 20-296
date: 12/11/2024

TITLE 24 - ELECTRICAL

E0.06

SHEET KEYNOTES

1. EXISTING 12KV FEED TO BE TAPPED AND CONNECTED TO 12KV SWITCH. FIELD VERIFY EXACT LOCATION OF 12KV FEED.
2. EXISTING 12KV CAMPUS FEED SHOWN FOR REFERENCE ONLY.
3. REFER TO SHEET E5.01 FOR FEEDER INFORMATION.
4. RE-FURBISHED 1000KVA TRANSFORMER PROVIDED BY CAMPUS.
5. PROVIDE PULLBOX AS REQUIRED FOR TAPPING EXISTING 12KV FEED AND CONNECTING TO NEW PAD MOUNTED 12KV SWITCH.
6. GENERATOR SHOWN FOR REFERENCE ONLY. REFER TO SHEET E1.02 FOR MORE INFORMATION.
7. MAIN SWITCHBOARD 'MSB' SHOWN FOR REFERENCE ONLY. REFER TO SHEET E3.01 FOR MORE INFORMATION.



1 SITE PLAN - ELECTRICAL

0' 4' 8' 16'
1" = 30'-0"

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	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

REGISTERED PROFESSIONAL ENGINEER
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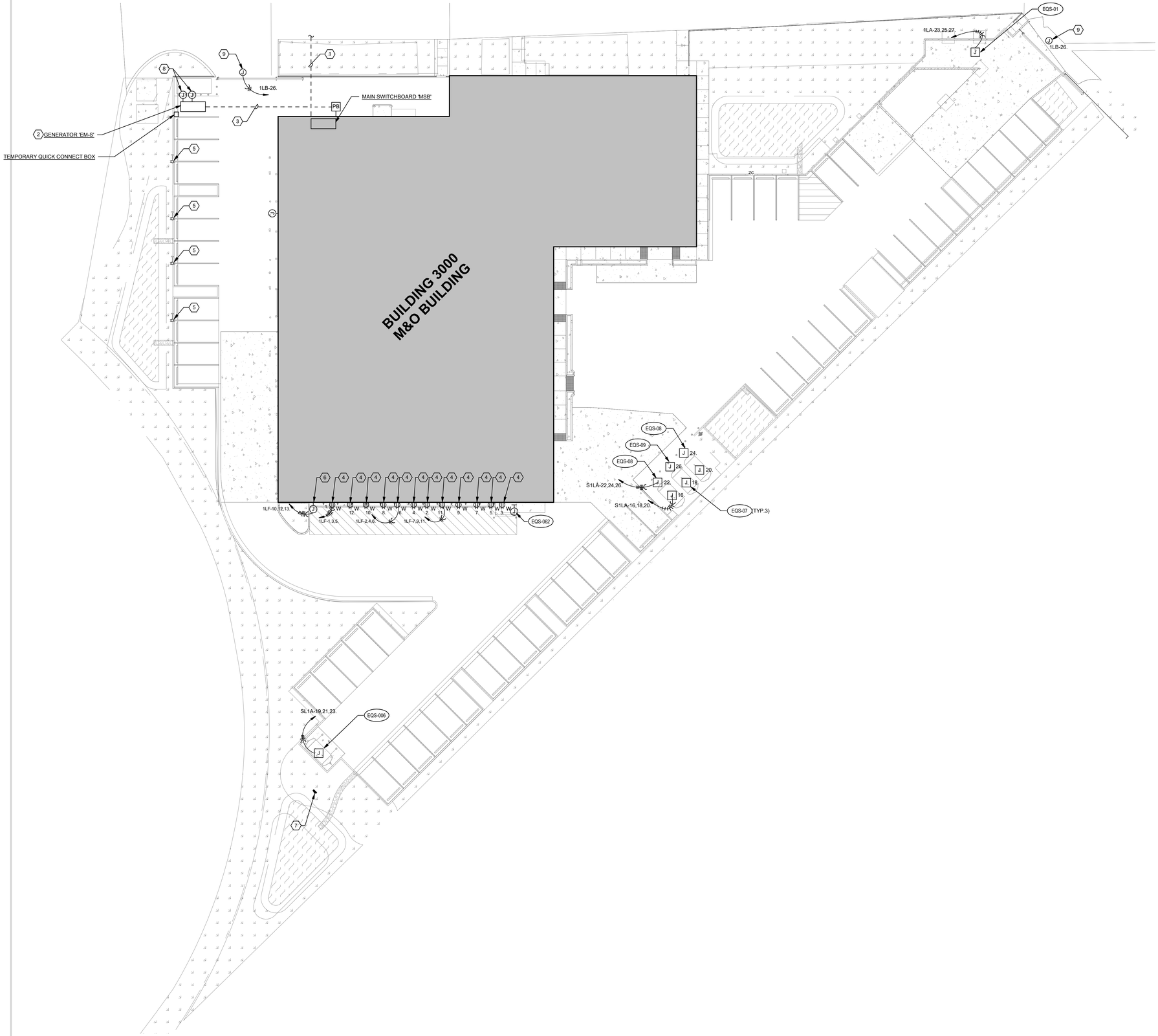
HAYWARD, CA 94545

plot date:
project number: 20-296
date: 12/11/2024

SITE UTILITY PLAN - ELECTRICAL

E1.01



1 SITE PLAN - POWER

SCALE: 1/16" = 1'-0"

GENERAL SHEET NOTES

A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF RECEPTACLES AND ELECTRICAL DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.

SHEET KEYNOTES

1. PROVIDE THREE SETS OF 3" CONDUIT FOR CONNECTION TO MAIN SWITCHBOARD 'MSB' ROUTED FROM EXISTING 12KV FEED VIA 1000KVA TRANSFORMER. REFER TO SINGLE LINE DIAGRAM FOR CONDUCTOR INFORMATION. REFER TO SHEET E1.01 FOR FEEDER CONTINUATION TO CAMPUS TRANSFORMER.
2. PROVIDE 100KW/125KVA, 277/480V DIESEL ENGINE GENERATOR WITH SUB-BASE FUEL TANK IN SOUND ATTENUATED NEMA 3R ENCLOSURE. SUB-BASE FUEL TANK TO BE SIZED FOR 48 HOUR MINIMUM RUN TIME.
3. PROVIDE (1) 1" CONDUIT FOR EMERGENCY AUTOMATIC TRANSFER SWITCH 'EATS1A' AND (1) 1-1/4" CONDUIT FOR STANDBY AUTOMATIC TRANSFER SWITCH 'SATS1A', FROM GENERATOR ROUTED TO ELECTRICAL ROOM. REFER TO SINGLE LINE DIAGRAM FOR CONDUCTOR INFORMATION.
4. POWER CONNECTION FOR GOLF CART CHARGING. COORDINATE EXACT LOCATION AND QUANTITY WITH ARCHITECT.
5. EV CAPABLE PARKING STALL. PROVIDE 1" CONDUIT TO EV CAPABLE PANEL LOCATED IN THE ELECTRICAL ROOM.
6. POWER CONNECTION FOR EV TRACTOR. COORDINATE EXACT LOCATION WITH ARCHITECT AND COLLEGE REPRESENTATIVE.
7. SHOWN FOR REFERENCE ONLY. EXISTING PANEL FOR SOFTBALL FIELD TO BE RE-FED FROM M&O BUILDING. COORDINATE TEMPORARY POWER REQUIREMENTS WITH DISTRICT.
8. POWER CONNECTION FOR BATTERY CHARGER AND JACKET WATER HEATER TO GENERATOR LOAD PANEL.
9. POWER CONNECTION FOR MOTORIZED GATE AND DOOR ACCESS CONTROL. COORDINATE ALL REQUIREMENTS WITH ARCHITECT.

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SITE PLAN - POWER

E1.02

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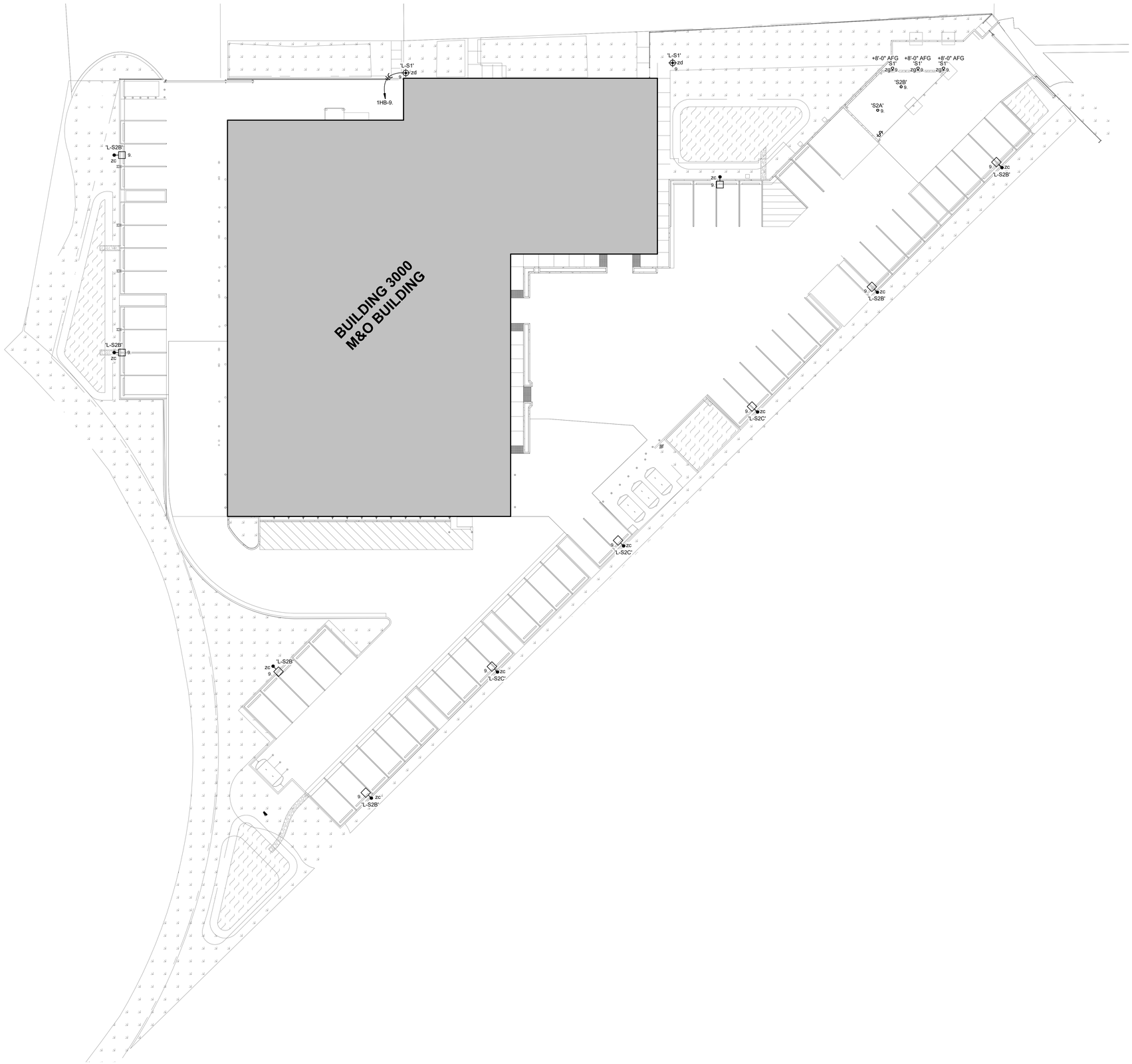

GENERAL SHEET NOTES

A. COORDINATE EXACT LOCATION OF LUMINAIRE AND LIGHTING CONTROLS WITH ARCHITECT PRIOR TO INSTALLATION.

1 SITE PLAN - LIGHTING

SCALE

0' 8' 16' 32'

1/16" = 1'-0"

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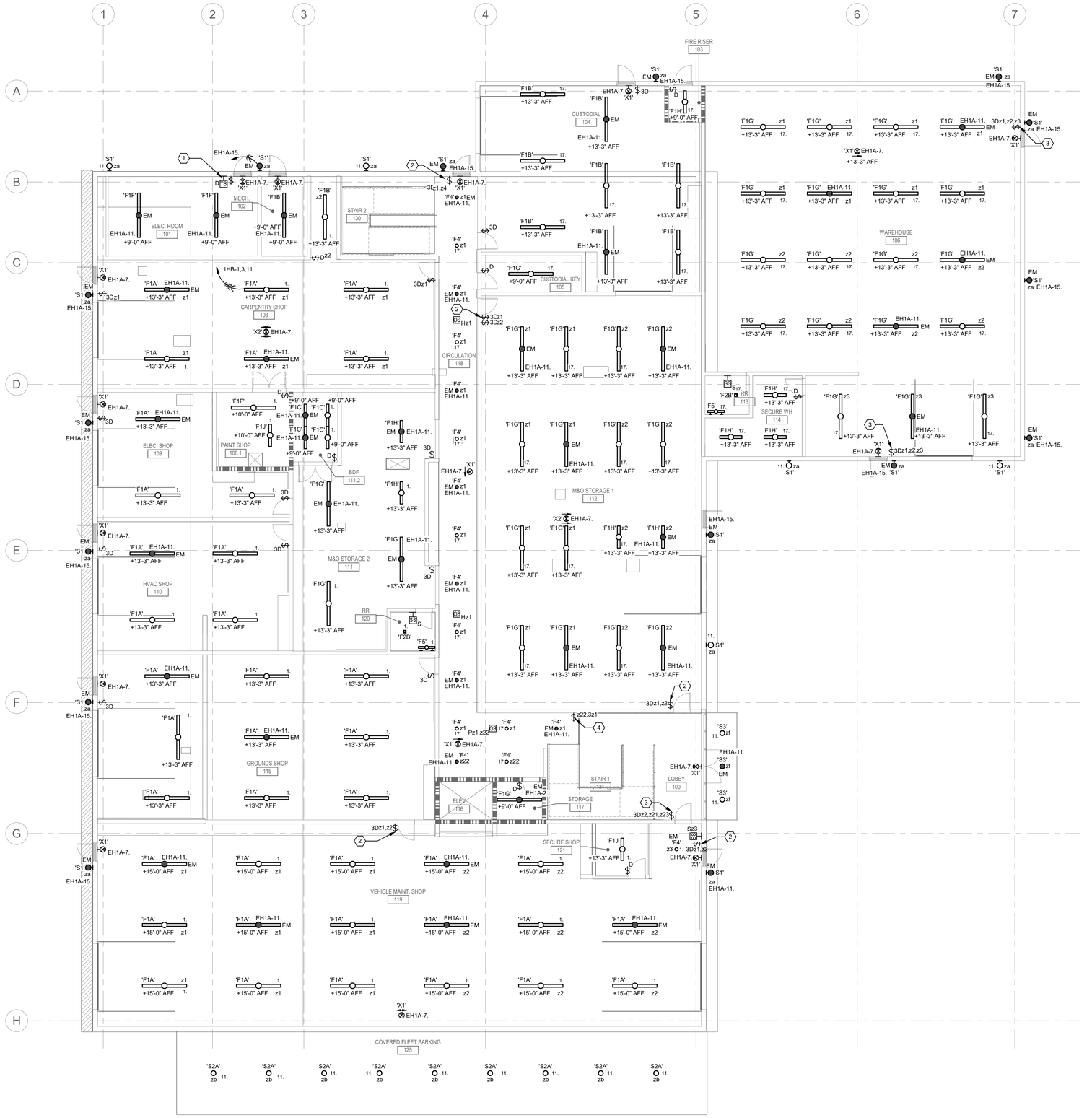
SITE PLAN - LIGHTING

E1.03



GENERAL SHEET NOTES

A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF LUMINAIRES AND LIGHTING CONTROLS WITH ARCHITECT PRIOR TO INSTALLATION.

B. REFER TO LIGHTING CONTROL MATRIX ON SHEET E0.03 FOR ADDITIONAL INFORMATION ON THE TYPE OF CONTROLS TO BE PROVIDED FOR EACH SPACE TYPE.

C. EMERGENCY LUMINAIRES SWITCHED/DIMMED WITH NORMAL LUMINAIRES IN SPACE AND SHALL OPERATE ON 100% FULL OUTPUT WHEN OPERATING ON EMERGENCY POWER. PROVIDE UL924 RELAY DEVICE FOR EMERGENCY CIRCUIT TO BYPASS CONTROLS DURING POWER OUTAGE.

SHEET KEYNOTES

1. PROVIDE LIGHTING CONTROL TOUCHPAD FOR EXTERIOR BUILDING ENTRY/PATHWAY ZONE za, EXTERIOR COVERED FLEET PARKING ZONE zb, PARKING AREA ZONE zc, GRADE-MOUNTED PATHWAY ZONE zd AND MAIN BUILDING ENTRY ZONE zf, COMPACTOR ZONE zg.
2. PROVIDE ONE TWO-ZONE DIMMER SWITCH.
3. PROVIDE ONE THREE-ZONE DIMMER SWITCH.
4. PROVIDE ONE TWO-ZONE SINGLE-POLE SWITCH.

1 GROUND FLOOR PLAN - LIGHTING

0' 4' 8' 16'

1/8" = 1'-0"

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	2022.02.28	SCHEMATIC DESIGN

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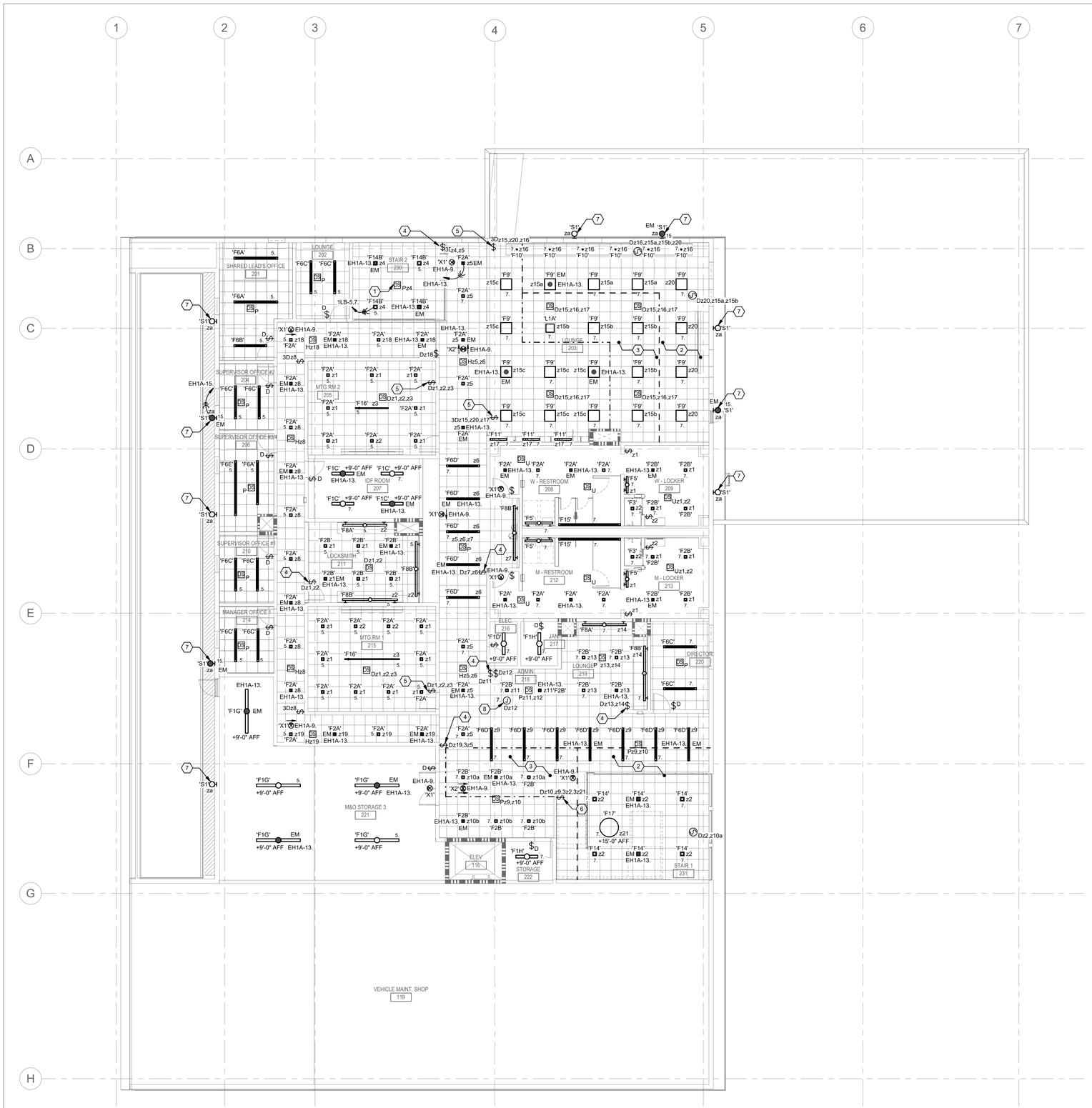
GROUND FLOOR PLAN - LIGHTING

E2.01



1 SECOND FLOOR PLAN - LIGHTING

0' 4' 8' 16'

1/8" = 1'-0"

GENERAL SHEET NOTES

A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF LUMINAIRES AND LIGHTING CONTROLS WITH ARCHITECT PRIOR TO INSTALLATION.

B. REFER TO LIGHTING CONTROL MATRIX ON SHEET E0.03 FOR ADDITIONAL INFORMATION ON THE TYPE OF CONTROLS TO BE PROVIDED FOR EACH SPACE TYPE.

C. EMERGENCY LUMINAIRES SWITCHED/DIMMED WITH NORMAL LUMINAIRES IN SPACE AND SHALL OPERATE ON 100% FULL OUTPUT WHEN OPERATING ON EMERGENCY POWER. PROVIDE UL924 RELAY DEVICE FOR EMERGENCY CIRCUIT TO BYPASS CONTROLS DURING POWER OUTAGE.

SHEET KEYNOTES

1. PROVIDE OCCUPANCY SENSOR WITH EXTENDED HEIGHT LENS.
2. PRIMARY DAYLIT ZONE.
3. SECONDARY DAYLIT ZONE.
4. PROVIDE ONE TWO-ZONE DIMMER SWITCH.
5. PROVIDE ONE THREE-ZONE DIMMER SWITCH.
6. PROVIDE ONE FOUR-ZONE DIMMER SWITCH.
7. ALIGN TOP EDGE OF FIXTURE TO TOP EDGE OF ADJACENT WINDOW. COORDINATE WITH ARCHITECT.
8. PROVIDE JUNCTION BOX FOR FUTURE LIGHTING.

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SECOND FLOOR PLAN - LIGHTING

E2.02

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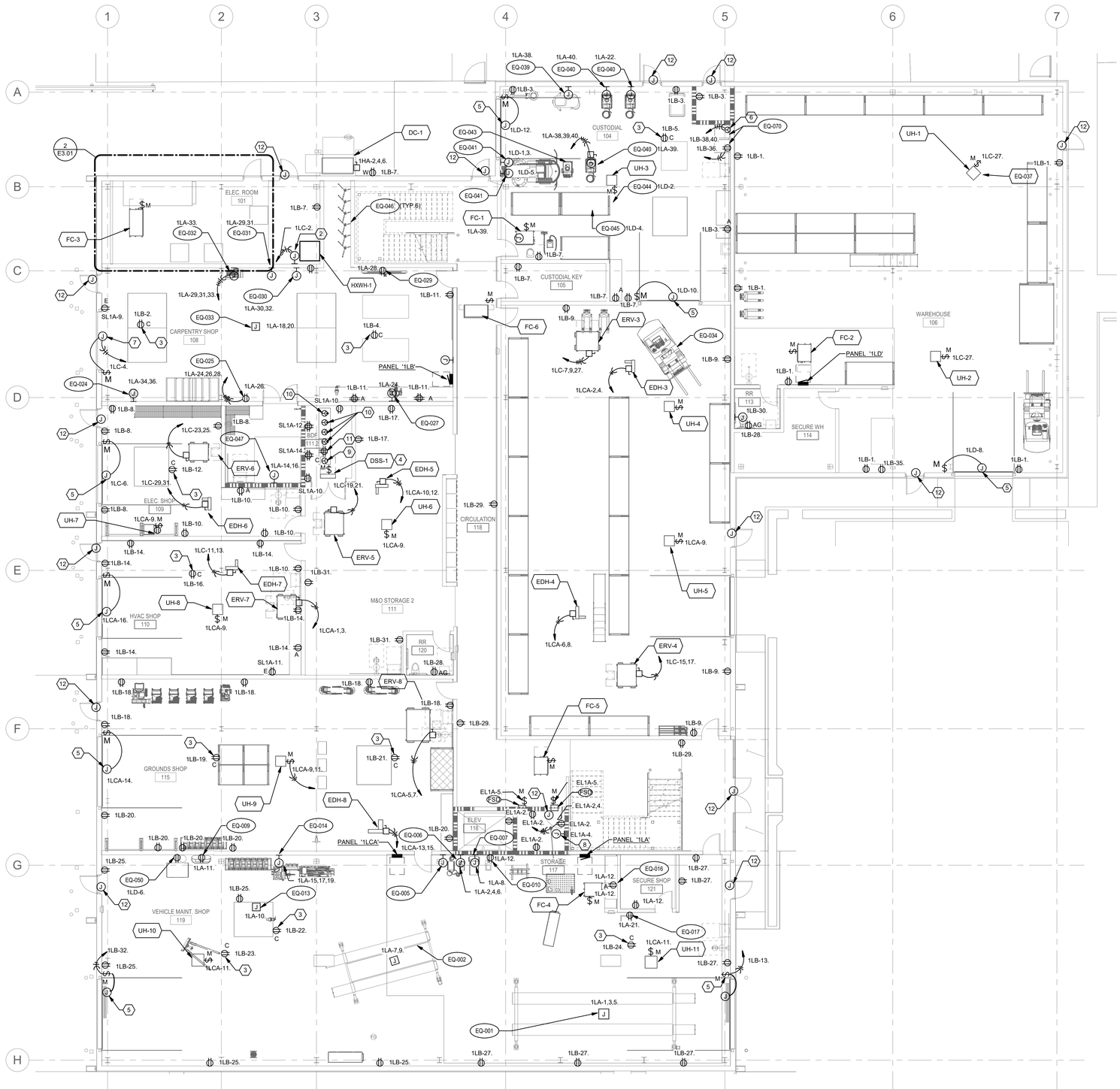
ELEC. ROOM 101
CARPENTRY SHOP 108
ELEC. SHOP 109
HVAC SHOP 110
M&O STORAGE 2 111
CUSTODIAL 104
CUSTODIAL KEY 105
WAREHOUSE 106
RR 113
SECURE WH 114
CIRCULATION 118
RR 120
GROUNDS SHOP 115
ELEV 116
STORAGE 117
SECURE SHOP 121
VEHICLE MAINT. SHOP 119
PANEL '1LB'
PANEL '1LD'
PANEL '1LCA'
PANEL '1LA'
DC-1
HXWH-1
ERV-3
ERV-4
ERV-5
ERV-6
ERV-7
ERV-8
EDH-3
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EQ-041
EQ-046 (TYP 6)
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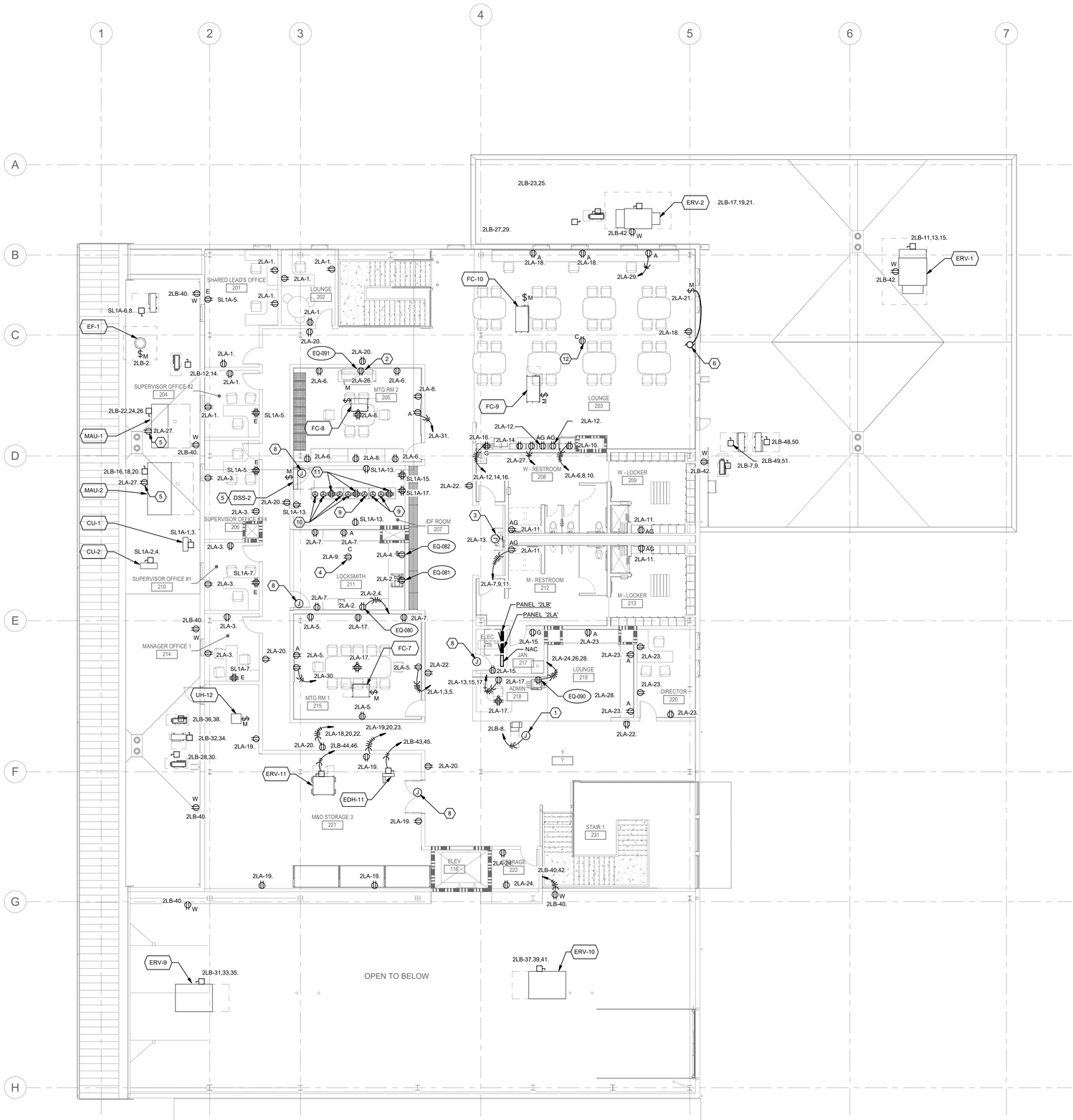
1LB-7



1 SECOND FLOOR PLAN - POWER

0' 4' 8' 16'

1/8" = 1'-0"

GENERAL SHEET NOTES

A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF RECEPTACLES, VOICE/DATA OUTLETS AND ELECTRICAL DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.

B. COORDINATE EXACT POWER REQUIREMENTS OF EQUIPMENT WITH MANUFACTURER AND EQUIPMENT SHOP DRAWINGS PRIOR TO INSTALLATION.

C. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS OF HVAC UNITS WITH DIVISION 23 PRIOR TO INSTALLATION. PROVIDE MAINTENANCE RECEPTACLE WITHIN 25' OF EACH EQUIPMENT PER CEC ARTICLE 210.63.

D. SEE MECHANICAL EQUIPMENT CONNECTION SCHEDULE ON SHEET E6.01 ADDITIONAL INFORMATION.

E. DEMO WORK TO BE DONE UNDER A SEPARATE PROJECT.

SHEET KEYNOTES

1. PROVIDE JUNCTION BOX ABOVE ACCESSIBLE CEILING SPACE FOR CONNECTION TO AIR TERMINAL UNITS (VAV BOXES) IN THE AREA.
2. DEDICATED OUTLET FOR PLOTTER.
3. POWER CONNECTION FOR DRINKING FOUNTAIN.
4. CEILING MOUNTED OUTLET FOR ELECTRICAL DROP CONNECTION. COORDINATE EXACT LOCATION WITH COLLEGE REPRESENTATIVE PRIOR TO ROUGH-IN AND INSTALLATION.
5. DSS-2 FED FROM CU-2.
6. LOCATE FOR MOTORIZED SCREEN. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN AND INSTALLATION.
7. POWER CONNECTION FOR MAU LIGHTS AND POWER. COORDINATE EXACT LOCATION AND QUANTITY AND INSTALLATION REQUIREMENTS WITH EQUIPMENT MANUFACTURER. PROVIDE WEATHER PROOF ENCLOSURE FOR RECEPTACLES AND LUMINAIRES.
8. POWER CONNECTION FOR ELECTRIFIED DOOR. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS WITH MANUFACTURER.
9. PROVIDE NEMA L5-30 RECEPTACLE. COORDINATE EXACT LOCATION AND INSTALLATION REQUIREMENTS WITH TELECOM DRAWINGS/CONSULTANT.
10. PROVIDE NEMA L6-20 RECEPTACLE. OUTLET TO BE LOCATED ON RACK. COORDINATE EXACT LOCATION AND INSTALLATION REQUIREMENTS WITH TELECOM DRAWINGS/CONSULTANT.
11. RECEPTACLE TO BE LOCATED ON RACK. COORDINATE EXACT LOCATION AND INSTALLATION REQUIREMENTS WITH TELECOM DRAWINGS/CONSULTANT.
12. POWER CONNECTION FOR PROJECTOR. COORDINATE EXACT LOCATION WITH ARCHIECT.

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rev	date	issue
2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

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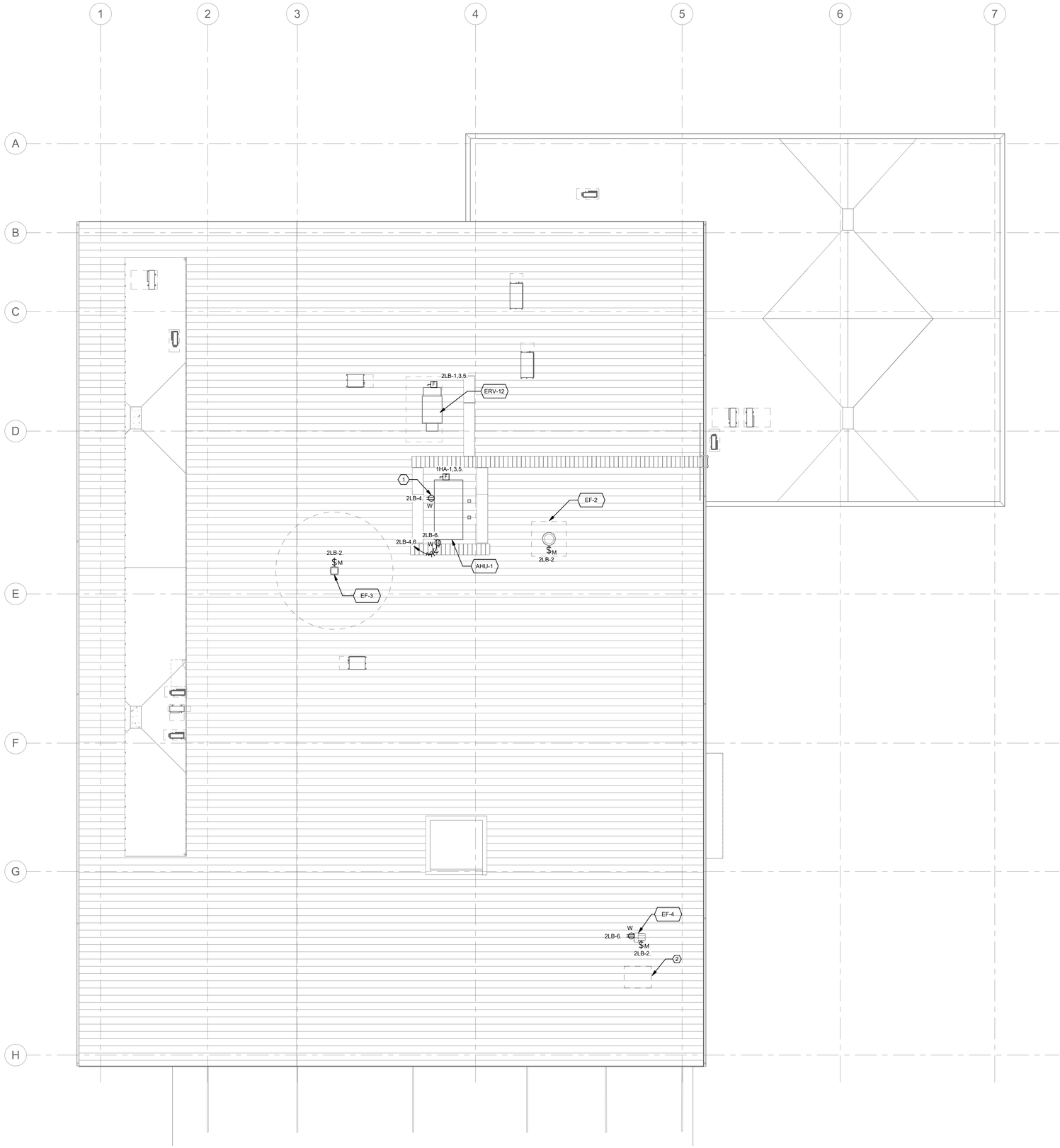
plot date:
project number: 20-296
date: 12/11/2024

SECOND FLOOR PLAN - POWER

E3.02



GENERAL SHEET NOTES

A. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS OF HVAC UNITS WITH DIVISION 23 PRIOR TO INSTALLATION. PROVIDE MAINTENANCE RECEPTACLE WITHIN 25' OF EACH EQUIPMENT PER CEC ARTICLE 210.63.

B. SEE MECHANICAL EQUIPMENT CONNECTION SCHEDULE ON SHEET E6.01 ADDITIONAL INFORMATION.

SHEET KEYNOTES

1. POWER CONNECTION FOR AHU-1 LIGHTS AND POWER. COORDINATE EXACT LOCATION AND QUANTITY AND INSTALLATION REQUIREMENTS WITH EQUIPMENT MANUFACTURER. PROVIDE WEATHER PROOF ENCLOSURE FOR RECEPTACLES AND LUMINAIRES.

2. PROVIDE CONDUIT WITH PULL STRING FOR FUTURE SOLAR INVERTER CONNECTION. COORDINATE EXACT CONDUIT SIZE WITH ARCHITECT PRIOR TO INSTALLATION. CONDUIT SHALL NOT PENETRATE THE ROOF.

1 ROOF PLAN - POWER

0' 4' 8' 16'

1/8" = 1'-0"

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	2023.01.18	100% DESIGN DEVELOPMENT
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ROOF PLAN - POWER

E3.03

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GENERAL SHEET NOTES

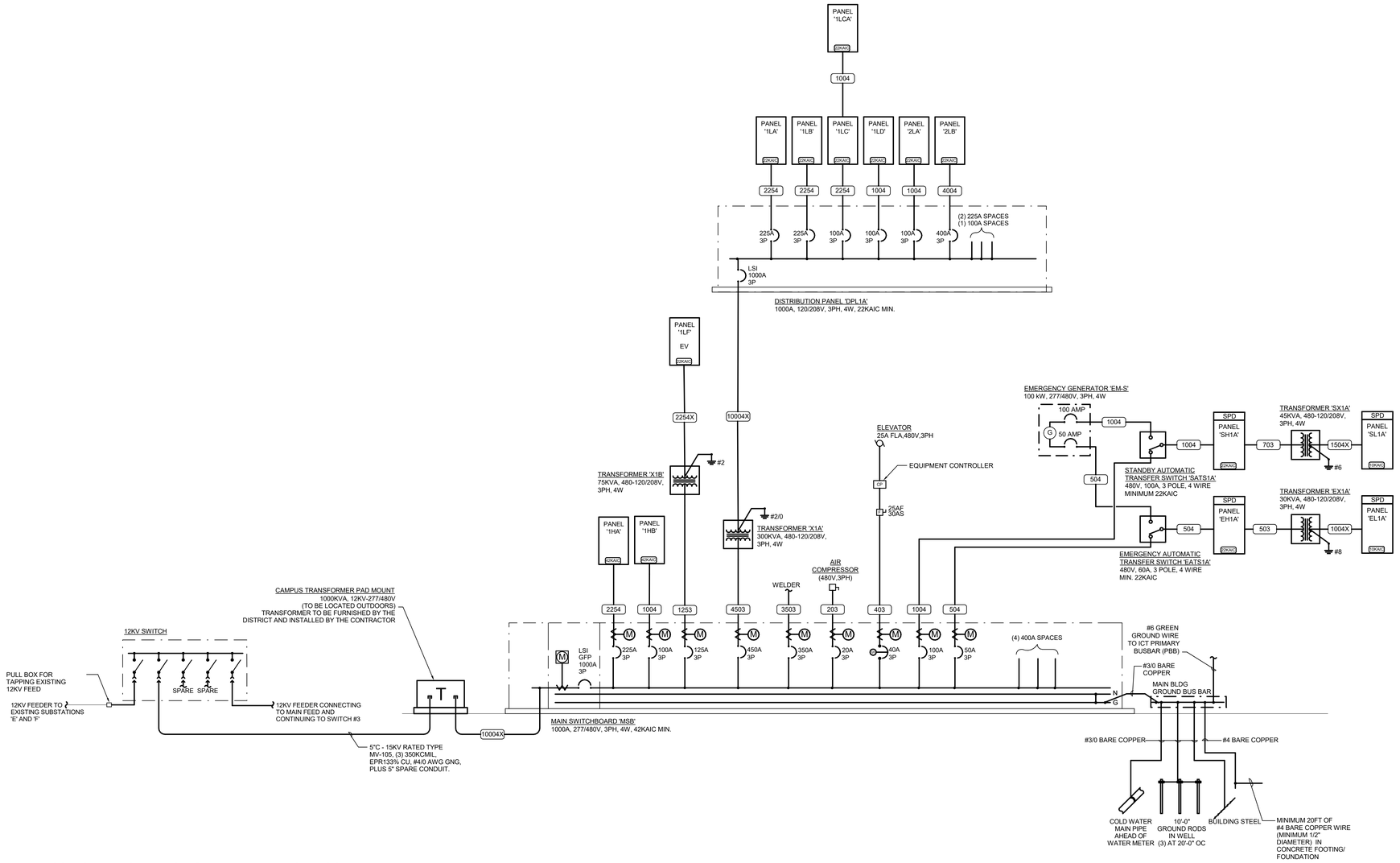
A. ALL AIC RATINGS SHOWN ARE MINIMUM REQUIREMENTS. COORDINATE EXACT RATING BASED ON SHORT CIRCUIT STUDY RECOMMENDATIONS.

FEEDER SCHEDULE

Key

A, C, S, X	A = Aluminum C = Conduit only S = Service secondary X = Separately derived system

202	2 #12 CU, 1 #12 CU GND., IN 3/4" C.
203	3 #12 CU, 1 #12 CU GND., IN 3/4" C.
303	3 #10 CU, 1 #10 CU GND., IN 3/4" C.
403	3 #8 CU, 1 #10 CU GND., IN 3/4" C.
503	3 #6 CU, 1 #10 CU GND., IN 3/4" C.
504	4 #6 CU, 1 #10 CU GND., IN 1" C.
703	3 #4 CU, 1 #8 CU GND., IN 1" C.
1003	3 #2 CU, 1 #8 CU GND., IN 1-1/4" C.
1004	4 #2 CU, 1 #8 CU GND., IN 1-1/4" C.
1004X	4 #2 CU, 1 #8 CU GND., IN 1-1/4" C.
1253	3 #1 CU, 1 #6 CU GND., IN 1-1/4" C.
1504X	4 #1/0 CU, 1 #6 CU GND., IN 2" C.
2254	4 #4/0 CU, 1 #4 CU GND., IN 2-1/2" C.
2254X	4 #4/0 CU, 1 #4 CU GND., IN 2-1/2" C.
3503	3 - 500 kcmil CU, 1 #2 CU GND., IN 3" C.)
4004	2 SETS OF (4 #3/0 CU, 1 #2 CU GND., IN 2" C.)
4503	2 SETS OF (3 #4/0 CU, 1 #2 CU GND., IN 2" C.)
8004	3 SETS OF (4 - 300 kcmil CU, 1 #1/0 CU GND., IN 3" C.)
10004X	3 SETS OF (4 - 400 kcmil CU, 1 #3/0 CU GND., IN 3" C.)



1 SINGLE LINE DIAGRAM - ELECTRICAL

NO SCALE

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	2022.02.28	SCHEMATIC DESIGN

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date: 12/11/2024

SINGLE LINE DIAGRAM - ELECTRICAL

E5.01

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

ITEM	DESCRIPTION	LOCATION	VOLTS / PHASE	LOAD	MCA	MOCP	WIRE / CONDUIT	PANEL SOURCE	NOTES
AHU-1	AIR HANDLER UNIT	ROOF	480/3		10.5	20	203	1HA	
ERV-1	ENERGY RECOVERY UNIT	ROOF	208/3		23.7	30	303	2LB	
ERV-2	ENERGY RECOVERY UNIT	ROOF	208/3		20.6	30	303	2LB	
ERV-3	ENERGY RECOVERY UNIT	M&O STORAGE	208/1		10.1	20	202	1LC	
ERV-4	ENERGY RECOVERY UNIT	M&O STORAGE	208/1		10.1	20	202	1LC	
ERV-5	ENERGY RECOVERY UNIT	M&O STORAGE	208/1		10.1	20	202	1LC	
ERV-6	ENERGY RECOVERY UNIT	ELEC SHOP	208/1		3.9	20	202	1LC	
ERV-7	ENERGY RECOVERY UNIT	HVAC SHOP	208/1		5.1	20	202	1LCA	
ERV-8	ENERGY RECOVERY UNIT	GROUNDS SHOP	208/1		10.4	20	202	1LCA	
ERV-9	ENERGY RECOVERY UNIT	VEHICLE MAINT	208/3		27	30	303	2LB	
ERV-10	ENERGY RECOVERY UNIT	VEHICLE MAINT	208/3		27	30	303	2LB	
ERV-11	ENERGY RECOVERY UNIT	M&O STORAGE	208/1		5.1	20	202	2LB	
ERV-12	ENERGY RECOVERY UNIT	ROOF	208/3		19.8	20	203	2LB	
DC-1	DUST COLLECTOR	GROUND	480/3	7.5 HP	11	20	203	1HA	
MUA-1	MAKE UP AIR UNIT	ROOF	208/3		13.7	20	203	2LB	
MUA-2	MAKE UP AIR UNIT	ROOF	208/3		9.8	20	203	2LB	
CU-1	CONDENSING UNIT	BDF	208/1		11	20	202	SL1A	1
CU-2	CONDENSING UNIT	IDF	208/1		19.5	30	302	SL1A	1
HP-1	HEAT PUMP	LOW ROOF	208/1		9	20	202	2LB	2
HP-2	HEAT PUMP	LOW ROOF	208/1		9	20	202	2LB	2
HP-3	HEAT PUMP	LOW ROOF	208/1		25	30	302	2LB	2
HP-4	HEAT PUMP	LOW ROOF	208/1		9	20	202	2LB	2
HP-5	HEAT PUMP	LOW ROOF	208/1		19	30	302	2LB	2
HP-6	HEAT PUMP	LOW ROOF	208/1		9	20	202	2LB	2
HP-7	HEAT PUMP	LOW ROOF	208/1		11	20	202	2LB	2
HP-8	HEAT PUMP	LOW ROOF	208/1		11	20	202	2LB	2
HP-9	HEAT PUMP	LOW ROOF	208/1		25	30	302	2LB	2
HP-10	HEAT PUMP	LOW ROOF	208/1		25	30	302	2LB	2
UH-1	UNIT HEATER	WAREHOUSE	120/1		1.6	20	202	1LC	
UH-2	UNIT HEATER	WAREHOUSE	120/1		1.6	20	202	1LC	
UH-3	UNIT HEATER	CUSTODIAL	120/1		1.6	20	202	1LC	
UH-4	UNIT HEATER	M&O STORAGE	120/1		1.6	20	202	1LC	
UH-5	UNIT HEATER	M&O STORAGE	120/1		1.6	20	202	1LCA	
UH-6	UNIT HEATER	M&O STORAGE	120/1		1.6	20	202	1LCA	
UH-7	UNIT HEATER	ELEC SHOP	120/1		1.6	20	202	1LCA	
UH-8	UNIT HEATER	HVAC SHOP	120/1		1.6	20	202	1LCA	
UH-9	UNIT HEATER	GROUNDS SHOP	120/1		1.6	20	202	1LCA	
UH-10	UNIT HEATER	VEHICLE MAINT	120/1		2.9	20	202	1LCA	
UH-11	UNIT HEATER	VEHICLE MAINT	120/1		2.9	20	202	1LCA	
UH-12	UNIT HEATER	M&O STORAGE	120/1		1.6	20	202	2LB	
EDH-3	ELECTRIC DUCT HEATER	M&O STORAGE	208/1		9.6	20	202	1LCA	
EDH-4	ELECTRIC DUCT HEATER	M&O STORAGE	208/1		9.6	20	202	1LCA	
EDH-5	ELECTRIC DUCT HEATER	M&O STORAGE	208/1		12	20	202	1LCA	
EDH-6	ELECTRIC DUCT HEATER	ELEC SHOP	208/1		4.8	20	202	1LC	
EDH-7	ELECTRIC DUCT HEATER	HVAC SHOP	208/1		4.8	20	202	1LC	
EDH-8	ELECTRIC DUCT HEATER	GROUNDS SHOP	208/1		12	20	202	1LCA	
EDH-11	ELECTRIC DUCT HEATER	M&O STORAGE	208/1		7.2	20	202	2LB	
EF-1	EXHAUST FAN	LOW ROOF	120/1		0.25	20	202	2LB	
EF-2	EXHAUST FAN	ROOF	120/1		0.5	20	202	2LB	
EF-3	EXHAUST FAN	ROOF	120/1		0.5	20	202	2LB	
EF-4	EXHAUST FAN	ROOF	120/1		0.5	20	202	2LB	

GENERAL MECHANICAL EQUIPMENT CONNECTION SCHEDULE NOTES

A. THE ABOVE INFORMATION IS FOR A SPECIFIC MANUFACTURER. ACTUAL MANUFACTURER FOR EQUIPMENT MAY BE DIFFERENT. COORDINATE WITH MECHANICAL EQUIPMENT SUBMITTALS FOR LOADS AND OVER CURRENT PROTECTION REQUIREMENTS PRIOR TO INSTALLATION OF WIRING.

B. MOCP = MAXIMUM OVER CURRENT PROTECTION
MCA = MINIMUM CIRCUIT AMPACITY

C. PROVIDE DISCONNECTING MEANS FOR EACH ITEM OF EQUIPMENT LISTED IN THE SCHEDULE ABOVE, EXCEPT AS SPECIFICALLY NOTED OTHERWISE IN SCHEDULE NOTES, BELOW.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE NOTES

1 CONDENSING UNIT POWER ASSOICATED DSS UNIT. REFER TO MECHANICAL SCHEDULE FOR RELATED DSS.

2 HEAT PUMP POWERS ASSOCIATED INDOOR HEAT PUMP FAN COIL. REFER TO MECHANICAL SCHEDULE FOR ASSOCIATED UNIT.

WIRE / CONDUIT SCHEDULE

202 2 #12 CU, 1 #12 CU GND., IN 3/4" C.
203 3 #12 CU, 1 #12 CU GND., IN 3/4" C.
302 2 #10 CU, 1 #10 CU GND., IN 3/4" C.
303 3 #10 CU, 1 #10 CU GND., IN 3/4" C.

EQUIPMENT CONNECTION SCHEDULE

ITEM	DESCRIPTION	VOLTS / PHASE	LOAD	WIRE / CONDUIT	PANEL SOURCE	NOTES
EQS-01	TRASH COMPACTOR	208/3	15.0 FLA	303	1LA	
EQS-06	PROPANE TANK	208/1	9.0 FLA	302	S1LA	
EQS-07	FUEL TANK	120/1	10.0 FLA	302	S1LA	
EQS-08	OIL PUMP	120/1	12.0 FLA	302	S1LA	
EQS-09	FUEL MASTER	120/1	3.5 FLA	302	S1LA	
EQ-001	4 POST LIFT - SMALL VEHICLES	208/3	26.0 FLA	403	1LA	
EQ-002	4 POST LIFT - LARGE VEHICLES	208/1	15.0 FLA	202	1LA	
EQ-005	WELDER (STICK)	480/3	250.0 FLA	3503	MSA	
EQ-006	PLASMA CUTTER	208/3	30.0 FLA	403	1LA	
EQ-007	WELDER (MIG)	120/1	20.0 FLA	302	1LA	
EQ-009	PARTS WASHER	120/1	10.0 FLA	202	1LA	
EQ-010	DRILL PRESS	120/1	15.0 FLA	202	1LA	
EQ-013	BENCH GRINDER	120/1	12.8 FLA	202	1LA	
EQ-014	WHEEL BALANCER	208/3	20.0 FLA	303	1LA	
EQ-016	DISC BRAKE LATHE	120/1	15.0 FLA	202	1LA	
EQ-017	WATER DISTILLER	120/1	13.0 FLA	202	1LA	
EQ-024	DRILL PRESS	208/1	13.0 FLA	202	1LA	
EQ-025	SPINDLE SANDER	120/1	16.0 FLA	202	1LA	
EQ-027	CHOP SAW	120/1	15.0 FLA	202	1LA	
EQ-029	PANEL SAW	120/1	15.0 FLA	202	1LA	
EQ-030	BAND SAW	208/1	12.0 FLA	202	1LA	
EQ-031	PLANNER/JOINTER	208/1	17.0 FLA	302	1LA	
EQ-032	DISC/BELT SANDER	120/1	13.0 FLA	202	1LA	
EQ-033	TABLE SAW	208/1	17.0 FLA	302	1LA	
EQ-034	FORKLIFT	208/3	20.0 FLA	303	1LD	
EQ-037	FORKLIFT	480/3	20.0 FLA	303		
EQ-039	AUTOMATIC SCRUBBER	208/1	15.0 FLA	202	1LA	
EQ-040	CARPET EXTRACTOR	120/1	15.0 FLA	202	1LA	
EQ-041	AUTOMATIC RIDE-ON SCRUBBER	208/1	15.0 FLA	202	1LD	
EQ-043	GLASS CLEANING MACHINE	120/1	15.0 FLA	202	1LD	
EQ-044	STEAM CLEANING MACHINE	120/1	20.0 FLA	302	1LD	
EQ-045	VACCUM	120/1	15.0 FLA	202	1LD	
EQ-047	PAINT BOOTH	208/1	7.6 FLA	202	1LA	
EQ-050	BEAD BLAST CABINET	120/1	5.0 FLA	202	1LD	
EQ-060	CUSTODIAL CART	120/1	12.0 FLA	202	1LF	
EQ-061	GOLF CART	120/1	12.0 FLA	202	1LF	
EQ-062	AIR COMPRESSOR	480/3	12.5 FLA	203	MSA	
EQ-070	WASHER	120/1	10.0 FLA	202	1LB	
EQ-070	DRYER	208/1	12.0 FLA	202	1LB	
EQ-080	CODE MAX	120/1	4.0 FLA	202	2LA	
EQ-081	BENCH GRINDER	120/1	4.0 FLA	202	2LA	
EQ-082	KEY MACHINE	120/1	4.0 FLA	202	2LA	
EQ-090	COPIER	120/1	15.0 FLA	202	2LA	
EQ-091	PLOTTER	120/1	15.0 FLA	202		

GENERAL EQUIPMENT CONNECTION SCHEDULE NOTES

A. THE ABOVE INFORMATION IS FOR A SPECIFIC MANUFACTURER. ACTUAL MANUFACTURER FOR THE EQUIPMENT MAY BE DIFFERENT. COORDINATE WITH EQUIPMENT SUBMITTALS FOR LOADS AND OVER CURRENT PROTECTION REQUIREMENTS PRIOR TO INTALLATION OF WIRING.

B. INCLUDE THERMAL OVERLOAD PROTECTION WITH MANUAL MOTOR STARTERS.

C. PROVIDE DISCONNECTING MEANS FOR EACH ITEM OF EQUIPMENT LISTED IN THE SCHEDULE ABOVE, EXCEPT AS SPECIFICALLY NOTED OTHERWISE IN SCHEDULE NOTES, BELOW.

WIRE / CONDUIT SCHEDULE

202 2 #12 CU, 1 #12 CU GND., IN 3/4" C.
203 3 #12 CU, 1 #12 CU GND., IN 3/4" C.
302 2 #10 CU, 1 #10 CU GND., IN 3/4" C.
303 3 #10 CU, 1 #10 CU GND., IN 3/4" C.
403 3 #8 CU, 1 #10 CU GND., IN 3/4" C.
3503 3 #500 kcmil CU, 1 #2 CU GND., IN 3" C.

MAIN SWITCHBOARD: MSB

MAIN CIRCUIT BREAKER: 1000 A
BUS AMPACITY: 1000 A
SERVICE: 480/277 V, 3PH, 4 WIRE
A.I.C RATING:
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
LOCATION: ELECTRICAL...
SUPPLY FROM:

Load No.	LOAD DESCRIPTION	Number of Poles	FRAME SIZE	TRIP RATING	Load (VA) A	Load (VA) B	Load (VA) C	NOTES
1	1HA	3	400 A	225 A	7759.8	7759.8	7759.8	
2	1HB	3	100 A	100 A	5583.0	766.0	2556.0	
3	X1A	3	600 A	450 A	83671.4	69363.9	65517.9	
4	X1B	3	400 A	125 A	7680.0	5760.0	5760.0	
5	EH1A	3	400 A	50 A	2160.6	1718.0	5342.3	
6	SH1A	3	400 A	100 A	12255.0	10315.0	10283.0	
7	EQ-005 WELDER	3	400 A	350 A	69282.0	69282.0	69282.0	
8	ELEVATOR	3	400 A	40 A	6928.0	6928.0	6928.0	
9	AIR COMPRESSOR	3	20 A	20 A	3464.0	3464.0	3464.0	
10	BUSSED SPACE	1	--	--	--			
11	BUSSED SPACE	1	--	--	--			
12	BUSSED SPACE	1	--	--	--			
13	BUSSED SPACE	1	--	--	--			

Load Type Definitions:
Motor (125% largest Motor + 100% remaining motor)
R=Receptacles (to 10kVA 100%, over 10kVA 50%)
E=Existing Load 30-day metered (125%)
EL=Elevator (Demand as per NEC Table 620.14)
K=Kithen (Demand as per NEC Table 220.56)
G=General Load (Non-Vontinuous)(100%)
C= Continuous Loas (125%)
L=Lighting (125%)
W=Water Heater (125%)
X = X-Rays (Demand per NEC 660.6)
H = Heating (100%)

Load Type	Connected Load (VA)	NEC Demand Factor	NEC Demand Load	Panel Totals	
Motor	38168.0	107.62%	41078.0		
L	16205.9	125.00%	20257.4	**Total Connected Load:**	551033.54
R	67400.0	57.42%	38700.0	**Total NEC Demand:**	532579.85
C	1500.0	125.00%	1875.0	**Total Connected Current:**	662.79 A
G	258463.0	100.00%	258463.0	**Total NEC...**	640.59 A
EL	20784.0	100.00%	20784.0		
HVAC	0.0	0.00%	0.0		
M	103472.7	102.81%	106382.5		
Equipment	40504.0	100.00%	40504.0		
Other Loads -...	4536.0	100.00%	4536.0		

Notes:

DISTRIBUTION PANEL: DP1LA

MAIN CIRCUIT BREAKER: 1000 A
BUS AMPACITY: 1000 A
SERVICE: 120/208 V, 3PH, 4 WIRE
A.I.C RATING:
MOUNTING: SURFACE
ENCLOSURE:
LOCATION: ELECTRICAL...
SUPPLY FROM:

Load No.	LOAD DESCRIPTION	Number of Poles	FRAME SIZE	TRIP RATING	Load (VA) A	Load (VA) B	Load (VA) C	NOTES
1	1LA	3	400 A	225 A	21426.0	20098.0	19972.0	
2	1LB	3	400 A	225 A	10880.0	6060.0	4240.0	
3	1LC	3	400 A	100 A	9286.0	8708.5	6433.5	
4	1LD	3	400 A	100 A	4960.0	3860.0	3500.0	
5	2LA	3	400 A	100 A	6440.0	3860.0	5940.0	
6	2LB	3	400 A	400 A	30679.4	26777.4	25432.4	
7	BUSSED SPACE	1	--	--	--			
8	BUSSED SPACE	1	--	--	--			
9	BUSSED SPACE	1	--	--	--			

Load Type Definitions:
Motor (125% largest Motor + 100% remaining motor)
R=Receptacles (to 10kVA 100%, over 10kVA 50%)
E=Existing Load 30-day metered (125%)
EL=Elevator (Demand as per NEC Table 620.14)
K=Kithen (Demand as per NEC Table 220.56)
G=General Load (Non-Vontinuous)(100%)
C= Continuous Loas (125%)
L=Lighting (125%)
W=Water Heater (125%)
X = X-Rays (Demand per NEC 660.6)
H = Heating (100%)

Load Type	Connected Load (VA)	NEC Demand Factor	NEC Demand Load	Panel Totals	
Motor	36255.0	106.71%	38686.8		
R	45800.0	60.92%	27900.0	**Total Connected Load:**	218553.28
C	1500.0	125.00%	1875.0	**Total NEC Demand:**	205891.78
G	47697.0	100.00%	47697.0	**Total Connected Current:**	606.64 A
HVAC	0.0	0.00%	0.0	**Total NEC...**	571.50 A
M	70362.3	103.46%	72794.0		
Equipment	12403.0	100.00%	12403.0		
Other Loads -...	4536.0	100.00%	4536.0		

Notes:

PANELBOARD: 1HB

MAIN CIRCUIT BREAKER 100 A
BUS AMPACITY: 100 A
EQUIPMENT RATING: 480/277 V, 3PH, 4 WIRE
FOR AIC RATING SEE ONE-LINE DIAGRAM
MOUNTING: SURFACE
ENCLOSURE: TYPE 1
LOCATION: ELECTRICAL ROOM...
SUPPLIED FROM: MSB
Accessories:

CKT	Description/Location	Type	C.B.	Pole	Note	Load (VA) A	B	C	Note	Pole	C.B.	Type	Description/Location	CKT
1	GROUND FLOOR LTG	L	20 A	1		3,938				1	20 A	--	SPARE BREAKER	2
3	SPARE BREAKER	--	20 A	1			0			1	20 A	--	SPARE BREAKER	4
5	2ND FLOOR LTG	L	20 A	1				1,506		1	20 A	--	SPARE BREAKER	6
7	2ND FLOOR LTG	L	20 A	1		1,645				1	20 A	--	SPARE BREAKER	8
9	SITE LIGHTING	L	20 A	1			766			1	20 A	--	SPARE BREAKER	10
11	EXT. BLDG LTG/ FLEET 125 LTG	L	20 A	1				1,050		1	20 A	--	SPARE BREAKER	12
13	BUSSED SPACE	--	--	1		--				1	--	--	BUSSED SPACE	14
15	BUSSED SPACE	--	--	1			--			1	--	--	BUSSED SPACE	16
17	BUSSED SPACE	--	--	1				--		1	--	--	BUSSED SPACE	18
19	BUSSED SPACE	--	--	1		--				1	--	--	BUSSED SPACE	20
21	BUSSED SPACE	--	--	1			--			1	--	--	BUSSED SPACE	22
23	BUSSED SPACE	--	--	1				--		1	--	--	BUSSED SPACE	24
25	BUSSED SPACE	--	--	1		--				1	--	--	BUSSED SPACE	26
27	BUSSED SPACE	--	--	1			--			1	--	--	BUSSED SPACE	28
29	BUSSED SPACE	--	--	1				--		1	--	--	BUSSED SPACE	30
31	BUSSED SPACE	--	--	1		--				1	--	--	BUSSED SPACE	32
33	BUSSED SPACE	--	--	1			--			1	--	--	BUSSED SPACE	34
35	BUSSED SPACE	--	--	1				--		1	--	--	BUSSED SPACE	36
37	BUSSED SPACE	--	--	1		--				1	--	--	BUSSED SPACE	38
39	BUSSED SPACE	--	--	1			--			1	--	--	BUSSED SPACE	40
41	BUSSED SPACE	--	--	1				--		1	--	--	BUSSED SPACE	42
	Total Connected load Ph. A					21 A			Panel Connected Load:	8.91 kVA			10.71 A	
	Total Connected load Ph. B					3 A			Total Demand Load:	11.13 kVA			13.39 A	
	Total Connected load Ph. C					10 A								

Notes:

Load Type Definitions:
Motor (125% largest Motor + 100% remaining...
R = Receptacles (to 10kVA100%, over 10 kVA 50%)
E = Existing Load 30-day metered (125%)
K = Kitchen (Demand as per NEC Table 220.56)
G = General Load (Non-continuous) (100%)
EL = Elevator (Demand as per NEC Table...
C = Continuous Load (125%)
L = Lighting (125%)
W = Water Heater (125%)
X = X-Rays (Demand per NEC 660.6)
H = Heating (100%)

Load Type	Connected Load	NEC Demand Factor	NEC Demand Load	Panel Totals	
L	8905.0	125.00%	11131.3		
				Total Connected Load:	8905.00 VA
				Total NEC Demand:	11131.25 VA
				Total Connected Current:	10.71 A
				Total NEC Demand Current:	13.39 A

PANELBOARD: 1HA

MAIN CIRCUIT BREAKER 125
BUS AMPACITY: 125 A
EQUIPMENT RATING: 480/277 V, 3PH, 4 WIRE
FOR AIC RATING SEE ONE-LINE DIAGRAM
MOUNTING: SURFACE
ENCLOSURE: TYPE 1
LOCATION: ELECTRICAL ROOM...
SUPPLIED FROM: MSB
Accessories:

CKT	Description/Location	Type	C.B.	Pole	Note	Load (VA) A	B	C	A	B	C	Note	Pole	C.B.	Type	Description/Location	CKT
1	AHU-1	M	20 A	3		3,880			3,880				3	20 A	M	DC-1	2
3	--	--	--	--	--		3,880			3,880		--	--	--	--	--	4
5	--	--	--	--	--			3,880			3,880	--	--	--	--	--	6
7	BUSSED SPACE	--	--	1		--			--				1	--	--	BUSSED SPACE	8
9	BUSSED SPACE	--	--	1			--			--			1	--	--	BUSSED SPACE	10
11	BUSSED SPACE	--	--	1				--			--		1	--	--	BUSSED SPACE	12
13	BUSSED SPACE	--	--	1		--			--				1	--	--	BUSSED SPACE	14
15	BUSSED SPACE	--	--	1			--			--			1	--	--	BUSSED SPACE	16
17	BUSSED SPACE	--	--	1				--			--		1	--	--	BUSSED SPACE	18
19	BUSSED SPACE	--	--	1		--			--				1	--	--	BUSSED SPACE	20
21	BUSSED SPACE	--	--	1			--			--			1	--	--	BUSSED SPACE	22
23	BUSSED SPACE	--	--	1				--			--		1	--	--	BUSSED SPACE	24
25	BUSSED SPACE	--	--	1		--			--				1	--	--	BUSSED SPACE	26
27	BUSSED SPACE	--	--	1			--			--			1	--	--	BUSSED SPACE	28
29	BUSSED SPACE	--	--	1				--			--		1	--	--	BUSSED SPACE	30
	Total Connected load Ph. A					28 A			Panel Connected Load:	23.28 kVA			28.00 A				
	Total Connected load Ph. B					28 A			Total Demand Load:	29.10 kVA			35.00 A				
	Total Connected load Ph. C					28 A											

Notes:

Load Type Definitions:
Motor (125% largest Motor + 100% remaining...
R = Receptacles (to 10kVA100%, over 10 kVA 50%)
E = Existing Load 30-day metered (125%)
K = Kitchen (Demand as per NEC Table 220.56)
G = General Load (Non-continuous) (100%)
EL = Elevator (Demand as per NEC Table...
C = Continuous Load (125%)
L = Lighting (125%)
W = Water Heater (125%)
X = X-Rays (Demand per NEC 660.6)
H = Heating (100%)

Load Type	Connected Load	NEC Demand Factor	NEC Demand Load	Panel Totals	
Motor	11640.0	125.00%	14550.0		
M	11639.4	125.00%	14549.2	**Total Connected Load:**	23279.38 VA
				Total NEC Demand:	29099.23 VA
				Total Connected Current:	28.00 A
				Total NEC Demand Current:	35.00 A

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DIV. OF THE STATE ARCHITECT
APP: 01-121159 INC:
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DATE: 2/19/2025

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rev	date	issue
2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

REGISTERED PROFESSIONAL ENGINEER
JAMES McCARTHY
No. E23859
Exp: 03/31/26
ELECTRICAL
STATE OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD,
HAYWARD, CA 94545

plot date:
project number: 20-296
date: 12/11/2024

SCHEDULES - ELECTRICAL

E6.01

PANELBOARD: 1LA

MAIN CIRCUIT BREAKER | **MOUNTING:** SURFACE | **Accessories:**
BUS AMPACITY: 225 A | **ENCLOSURE:** TYPE 1
EQUIPMENT RATING: 120/208 V, 3PH, 4 WIRE | **LOCATION:** VEHICLE/MAINTENA...
FOR A/C RATING SEE ONE-LINE DIAGRAM | **SUPPLIED FROM:** DP1LA

CKT	Description/Location	Type	C.B.	Pole	Note	Load (VA) A	B	C	A	B	C	Note	Pole	C.B.	Type	Description/Location	CKT
1	EQO-001	G	20 A	3		1,801			1,200				3	40 A	G	EQO-006	2
3	--	--	--	--	--		1,801			1,200		--	--	--	--	--	4
5	--	--	--	--	--			1,801			1,200	--	--	--	--	--	6
7	EQ-002	G	20 A	2		936			2,400				1	20 A	G	EQ-007	8
9	--	--	--	--	--		936			1,536			1	20 A	G	EQ-013	10
11	EQ-009	R	20 A	1				1,200			3,600		1	20 A	R	EQ-016	12
13	EQ-010	R	20 A	1		1,800			790				2	20 A	G	EQ-047	14
15	EQ-014	G	20 A	3			2,402			790		--	--	--	--	--	16
17	--	--	--	--	--			2,402			1,768		2	20 A	Oth...	EQ-033	18
19	--	--	--	--	--	2,402			1,768			--	--	--	--	--	20
21	EQ-017	R	20 A	1			1,560			1,800			1	20 A	G	EQ-040	22
23	EQS-01	Equi...	20 A	3				1,801			1,800		1	20 A	Equi...	EQ-027	24
25	--	--	--	--	--	1,801			1,920				1	20 A	R	EQ-025	26
27	--	--	--	--	--		1,801			1,800			1	20 A	R	EQ-029	28
29	EQ-031	G	20 A	2				0			1,248		2	20 A	Equi...	EQ-030	30
31	--	--	--	--	--	0			1,248			--	--	--	--	--	32
33	EQ-032	G	20 A	1			1,560			1,352			2	20 A	Equi...	EQ-024	34
35	EQ-040	G	20 A	1				1,800			1,352	--	--	--	--	--	36
37	EQ-039	G	20 A	1		1,800			1,560				1	20 A	G	EQ-038	38
39	SPARE BREAKER	--	20 A	1			0			1,560			1	20 A	G	EQ-040	40
41	SPARE BREAKER	--	20 A	1				0			0		1	20 A	--	SPARE BREAKER	42
	Total Connected load Ph. A					179 A			Panel Connected Load:		61.50 kVA					170.70 A	
	Total Connected load Ph. B					168 A			Total Demand Load:		60.56 kVA					168.09 A	
	Total Connected load Ph. C					166 A											

Notes:

Load Type Definitions:
Motor (125% largest Motor + 100% remaining... | K = Kitchen (Demand as per NEC Table 220.56) | C = Continuous Load (125%) | X = X-Rays (Demand per NEC 660.6)
R = Receptacles (to 10kVA100%, over 10 kVA 50%) | G = General Load (Non-continuous) (100%) | L = Lighting (125%) | H = Heating (100%)
E = Existing Load 30-day metered (125%) | EL = Elevator (Demand as per NEC Table... | W = Water Heater (125%)

Load Type	Connected Load	NEC Demand Factor	NEC Demand Load	Panel Totals	
G	33677.0	100.00%	33677.0		
R	11880.0	92.09%	10940.0	**Total Connected Load:**	61496.00 VA
Equipment	12403.0	100.00%	12403.0	**Total NEC Demand:**	60556.00 VA
Other Loads -...	3536.0	100.00%	3536.0	**Total Connected Current:**	170.70 A
				Total NEC Demand Current:	168.09 A

PANELBOARD: 1LB

MAIN CIRCUIT BREAKER 225 A | **MOUNTING:** SURFACE | **Accessories:**
BUS AMPACITY: 225 A | **ENCLOSURE:** TYPE 1
EQUIPMENT RATING: 120/208 V, 3PH, 4 WIRE | **LOCATION:** HVAC SHOP 168
FOR A/C RATING SEE ONE-LINE DIAGRAM | **SUPPLIED FROM:** DP1LA

CKT	Description/Location	Type	C.B.	Pole	Note	Load (VA) A	B	C	A	B	C	Note	Pole	C.B.	Type	Description/Location	CKT
1	RECEPT - WAREHOUSE 106	R	20 A	1		1,080			180				1	20 A	R	CLG ELEC. DROP OUTLET	2
3	RECEPT - CUSTODIAL 104	R	20 A	1			720			180			1	20 A	R	CLG ELEC. DROP OUTLET	4
5	CLG ELEC. DROP OUTLET	R	20 A	1				180			0		1	20 A	G	CARPENTRY SHOP JB	6
7	RECEPT - WAREHOUSE 106	R	20 A	1		1,080			720				1	20 A	R	CARPENTRY SHOP JB	8
9	RECEPT - M&O STORAGE 1	R	20 A	1			720			900			1	20 A	R	CARPENTRY SHOP JB	10
11	RECEPT - CARPENTRY 108	R	20 A	1				540			180		1	20 A	R	CLG ELEC. DROP OUTLET	12
13	MOTORIZED DOOR	Motor	20 A	1		1,100			1,080				1	20 A	R	RECEPT - HVAC SHOP 110	14
15	SPARE BREAKER	--	20 A	1			0			180			1	20 A	R	CLG ELEC. DROP OUTLET	16
17	RECEPT - M&O STORAGE	R	20 A	1				360			900		1	20 A	R	RECEPT - GROUND SHOP	18
19	CLG ELEC. DROP OUTLET	R	20 A	1		180			900				1	20 A	R	RECEPT - GROUND SHOP	20
21	CLG ELEC. DROP OUTLET	R	20 A	1			180			180			1	20 A	R	CLG ELEC. DROP OUTLET	22
23	RECEPT - MAINT. SHOP	R	20 A	1				180			180		1	20 A	R	CLG ELEC. DROP OUTLET	24
25	RECEPT - MAINT. SHOP	R	20 A	1		900			1,000				1	20 A	Oth...	MOTORIZED DOOR	26
27	CLG ELEC. DROP OUTLET	R	20 A	1			1,080			360			1	20 A	R	RECEPT - RESTROOMS	28
29	RECEPT - CORRIDOR	R	20 A	1				540			0		1	20 A	G	RESTROOM 113 JB	30
31	RECEPT - ELEC ROOM 101	R	20 A	1		360			1,100				1	20 A	Motor	MOTORIZED DOOR	32
33	RECEPT - ELEC ROOM 101	R	20 A	1			360			0			1	20 A	--	SPARE BREAKER	34
35	WAREHOUSE RECEPTION DESK	R	20 A	1				180			1,000		1	20 A	R	WASHER	36
37	BUSSED SPACE	--	--	1		--			1,200				2	30 A	G	DRYER	38
39	BUSSED SPACE	--	--	1			--			1,200		--	--	--	--	--	40
41	BUSSED SPACE	--	--	1				--			--		1	--	--	BUSSED SPACE	42
	Total Connected load Ph. A					93 A			Panel Connected Load:		21.18 kVA					58.79 A	
	Total Connected load Ph. B					53 A			Total Demand Load:		18.67 kVA					51.81 A	
	Total Connected load Ph. C					35 A											

Notes:
1. PROVIDE GFCI TYPE CIRCUIT BREAKER.

Load Type Definitions:
Motor (125% largest Motor + 100% remaining... | K = Kitchen (Demand as per NEC Table 220.56) | C = Continuous Load (125%) | X = X-Rays (Demand per NEC 660.6)
R = Receptacles (to 10kVA100%, over 10 kVA 50%) | G = General Load (Non-continuous) (100%) | L = Lighting (125%) | H = Heating (100%)
E = Existing Load 30-day metered (125%) | EL = Elevator (Demand as per NEC Table... | W = Water Heater (125%)

Load Type	Connected Load	NEC Demand Factor	NEC Demand Load	Panel Totals	
Motor	2200.0	112.50%	2475.0		
G	2400.0	100.00%	2400.0	**Total Connected Load:**	21180.00 VA
R	15580.0	82.09%	12790.0	**Total NEC Demand:**	18685.00 VA
Other Loads -...	1000.0	100.00%	1000.0	**Total Connected Current:**	58.79 A
				Total NEC Demand Current:	51.81 A

PANELBOARD: 1LC

MAIN CIRCUIT BREAKER 100 A | **MOUNTING:** SURFACE | **Accessories:**
BUS AMPACITY: 225 A | **ENCLOSURE:** TYPE 1
EQUIPMENT RATING: 120/208 V, 3PH, 4 WIRE | **LOCATION:** ELECTRICAL ROOM...
FOR A/C RATING SEE ONE-LINE DIAGRAM | **SUPPLIED FROM:** DP1LA

CKT	Description/Location	Type	C.B.	Pole	Note	Load (VA) A	B	C	A	B	C	Note	Pole	C.B.	Type	Description/Location	CKT
1	1LCA	Mot...	20 A	3		4,984			1,500				1	20 A	C	HXWH-1	2
3	--	--	--	--	--		4,473			1,100			1	20 A	Motor	MOTORIZED DOOR	4
5	--	--	--	--	--			3,372			1,100		1	20 A	Motor	MOTORIZED DOOR	6
7	ERV-3	Motor	20 A	2		840			0				1	20 A	--	SPARE BREAKER	8
9	--	--	--	--	--		840			0			1	20 A	--	SPARE BREAKER	10
11	EDH-7	Motor	20 A	2				399			0		1	20 A	--	SPARE BREAKER	12
13	--	--	--	--	--	399			0				1	20 A	--	SPARE BREAKER	14
15	ERV-4	Motor	20 A	2			840			0			1	20 A	--	SPARE BREAKER	16
17	--	--	--	--	--			840			0		1	20 A	--	SPARE BREAKER	18
19	ERV-5	Motor	20 A	2		840			0				1	20 A	--	SPARE BREAKER	20
21	--	--	--	--	--		840			0			1	20 A	--	SPARE BREAKER	22
23	ERV-6	Motor	20 A	2				324			0		1	20 A	--	SPARE BREAKER	24
25	--	--	--	--	--	324			--				1	--	--	BUSSED SPACE	26
27	UNIT HEATERS	Motor	20 A	1			616			--			1	--	--	BUSSED SPACE	28
29	EDH-6	Motor	20 A	2				399			--		1	--	--	BUSSED SPACE	30
31	--	--	--	--	--	399			--				1	--	--	BUSSED SPACE	32
33	BUSSED SPACE	--	--	1			--			--			1	--	--	BUSSED SPACE	34
35	BUSSED SPACE	--	--	1				--			--		1	--	--	BUSSED SPACE	36
37	BUSSED SPACE	--	--	1		--			--				1	--	--	BUSSED SPACE	38
39	BUSSED SPACE	--	--	1			--			--			1	--	--	BUSSED SPACE	40
41	BUSSED SPACE	--	--	1				--			--		1	--	--	BUSSED SPACE	42
	Total Connected load Ph. A					80 A			Panel Connected Load:		24.43 kVA					67.81 A	
	Total Connected load Ph. B					75 A			Total Demand Load:		25.30 kVA					70.23 A	
	Total Connected load Ph. C					54 A											

Notes:

Load Type Definitions:
Motor (125% largest Motor + 100% remaining... | K = Kitchen (Demand as per NEC Table 220.56) | C = Continuous Load (125%) | X = X-Rays (Demand per NEC 660.6)
R = Receptacles (to 10kVA100%, over 10 kVA 50%) | G = General Load (Non-continuous) (100%) | L = Lighting (125%) | H = Heating (100%)
E = Existing Load 30-day metered (125%) | EL = Elevator (Demand as per NEC Table... | W = Water Heater (125%)

Load Type	Connected Load	NEC Demand Factor	NEC Demand Load	Panel Totals	
Motor	22928.0	102.18%	23427.0		
C	1500.0	125.00%	1875.0	**Total Connected Load:**	24428.00 VA
HVAC	0.0	0.00%	0.0	**Total NEC Demand:**	25302.00 VA
				Total Connected Current:	67.81 A
				Total NEC Demand Current:	70.23 A

PANELBOARD: 1LD

MAIN CIRCUIT BREAKER 100 A | **MOUNTING:** SURFACE | **Accessories:**
BUS AMPACITY: 225 A | **ENCLOSURE:** TYPE 1
EQUIPMENT RATING: 120/208 V, 3PH, 4 WIRE | **LOCATION:** Space 270
FOR A/C RATING SEE ONE-LINE DIAGRAM | **SUPPLIED FROM:** DP1LA

CKT	Description/Location	Type	C.B.	Pole	Note	Load (VA) A	B	C	A	B	C	Note	Pole	C.B.	Type	Description/Location	CKT
1	EQ-041	G	20 A	2		1,560			1,800				1	20 A	G	EQ-044	2
3	--	--	--	--	--		1,560			1,800			1	20 A	G	EQ-045	4
5	G	G	20 A	1				1,800			600		1	20 A	R	EQ-050	6
7	LIGHTING CONTROL PANEL	G	20 A	1		500			1,100				1	20 A	G	MOTORIZED DOOR	8
9	SPARE BREAKER	--	20 A	1	1		0			500			1	20 A	G	MOTORIZED DOOR	10
11	SPARE BREAKER	--	20 A	1	1			0			1,100		1	20 A	Motor	MOTORIZED DOOR	12
13	SPARE BREAKER	--	20 A	1	1	0			0			1	1	20 A	--	SPARE BREAKER	14
15	SPARE BREAKER	--	20 A	1	1		0			0		1	1	20 A	--	SPARE BREAKER	16
17	SPARE BREAKER	--	20 A	1	1			0			0	1	1	20 A	--	SPARE BREAKER	18
19	SPARE BREAKER	--	20 A	1	1	0			0			1	1	20 A	--	SPARE BREAKER	20
21	SPARE BREAKER	--	20 A	1	1		0			0		1	1	20 A	--	SPARE BREAKER	22
23	SPARE BREAKER	--	20 A	1	1			0			0	1	1	20 A	--	SPARE BREAKER	24
25	SPARE BREAKER	--	20 A	1	1	0			0			1	1	20 A	--	SPARE BREAKER	26
27	SPARE BREAKER	--	20 A	1	1		0			0		1	1	20 A	--	SPARE BREAKER	28
29	SPARE BREAKER	--	20 A	1	1			0			0	1	1	20 A	--	SPARE BREAKER	30
31	SPARE BREAKER	--	20 A	1	1	0			0			1	1	20 A	--	SPARE BREAKER	32
33	SPARE BREAKER	--	20 A	1	1		0			0		1	1	20 A	--	SPARE BREAKER	34
35	SPARE BREAKER	--	20 A	1	1			0			0	1	1	20 A	--	SPARE BREAKER	36
37	SPARE BREAKER	--	20 A	1	1	0			0			1	1	20 A	--	SPARE BREAKER	38
39	SPARE BREAKER	--	20 A	1	1		0			0		1	1	20 A	--	SPARE BREAKER	40
41	SPARE BREAKER	--	20 A	1	1			0			0	1	1	20 A	--	SPARE BREAKER	42
	Total Connected load Ph. A					42 A			Panel Connected Load:		12.32 kVA					34.20 A	
	Total Connected load Ph. B					33 A			Total Demand Load:		12.60 kVA					34.96 A	
	Total Connected load Ph. C					29 A											

Notes:
1. PANEL SPARES INTENDED FOR FUTURE USE.

Load Type Definitions:
Motor (125% largest Motor + 100% remaining... | K = Kitchen (Demand as per NEC Table 220.56) | C = Continuous Load (125%) | X = X-Rays (Demand per NEC 660.6)
R = Receptacles (to 10kVA100%, over 10 kVA 50%) | G = General Load (Non-continuous) (100%) | L = Lighting (125%) | H = Heating (100%)
E = Existing Load 30-day metered (125%) | EL = Elevator (Demand as per NEC Table... | W = Water Heater (125%)

Load Type	Connected Load	NEC Demand Factor	NEC Demand Load	Panel Totals	
Motor	1100.0	125.00%	1375.0		
G	10620.0	100.00%	10620.0	**Total Connected Load:**	12320.00 VA
R	600.0	100.00%	600.0	**Total NEC Demand:**	12595.00 VA
				Total Connected Current:	34.20 A
				Total NEC Demand Current:	34.96 A

PANELBOARD: 1LF

MAIN CIRCUIT BREAKER 100 A | **MOUNTING:** SURFACE | **Accessories:**
BUS AMPACITY: 225 A | **ENCLOSURE:** TYPE 1
EQUIPMENT RATING: 120/208 V, 3PH, 4 WIRE | **LOCATION:** ELECTRICAL ROOM...
FOR A/C RATING SEE ONE-LINE DIAGRAM | **SUPPLIED FROM:** X1B

CKT	Description/Location	Type	C.B.	Pole	Note	Load (VA) A	B	C	A	B	C	Note	Pole	C.B.	Type	Description/Location	CKT
1	GOLF CART CHARGER	R	20 A	1		1,440			1,440				1	20 A	R	GOLF CART CHARGER	2
3	GOLF CART CHARGER	R	20 A	1			1,440			1,440			1	20 A	R	GOLF CART CHARGER	4
5	GOLF CART CHARGER	R	20 A	1				1,440			1,440		1	20 A	R	GOLF CART CHARGER	6
7	GOLF CART CHARGER	R	20 A	1		1,440			1,440				1	20 A	R	GOLF CART CHARGER	8
9	GOLF CART CHARGER	R	20 A	1			1,440			1,440			1	20 A	R	GOLF CART CHARGER	10
11	GOLF CART CHARGER	R	20 A	1				1,440			1,440		1	20 A	R	GOLF CART CHARGER	12
13	TRACTOR CHARGER JB	G	20 A	1		1,920			0				1	20 A	--	SPARE BREAKER	14
15	SPARE BREAKER	--	20 A	1			0			0			1	20 A	--	SPARE BREAKER	16
17	SPARE BREAKER	--	20 A	1				0			0		1	20 A	--	SPARE BREAKER	18
19	SPARE BREAKER	--	20 A	1		0			0				1	20 A	--	SPARE BREAKER	20
21	SPARE BREAKER	--	20 A	1			0			0			1	20 A	--	SPARE BREAKER	22
23	SPARE BREAKER	--	20 A	1				0			0		1	20 A	--	SPARE BREAKER	24
25	SPARE BREAKER	--	20 A	1		0			0				1	--	--	BUSSED SPACE	26
27	SPARE BREAKER	--	20 A	1			0			0			1	--	--	BUSSED SPACE	28
29	BUSSED SPACE	--	--	1				--			--		1	--	--	BUSSED SPACE	30
31	BUSSED SPACE	--	--	1		--			--				1	--	--	BUSSED SPACE	32
33	BUSSED SPACE	--	--	1			--			--			1	--	--	BUSSED SPACE	34
35	BUSSED SPACE	--	--	1				--			--		1	--	--	BUSSED SPACE	36
37	BUSSED SPACE	--	--	1		--			--				1	--	--	BUSSED SPACE	38
39	BUSSED SPACE	--	--	1			--			--			1	--	--	BUSSED SPACE	40
41	BUSSED SPACE	--	--	1				--			--		1	--	--	BUSSED SPACE	42
	Total Connected load Ph. A					64 A			Panel Connected Load:		19.20 kVA					53.29 A	
	Total Connected load Ph. B					48 A			Total Demand Load:		15.56 kVA					43.19 A	
	Total Connected load Ph. C					48 A											

Notes:

Load Type Definitions:
Motor (125% largest Motor + 100% remaining... | K = Kitchen (Demand as per NEC Table 220.56) | C = Continuous Load (125%) | X = X-Rays (Demand per NEC 660.6)
R = Receptacles (to 10kVA100%, over 10 kVA 50%) | G = General Load (Non-continuous) (100%) | L = Lighting (125%) | H = Heating (100%)
E = Existing Load 30-day metered (125%) | EL = Elevator (Demand as per NEC Table... | W = Water Heater (125%)

Load Type	Connected Load	NEC Demand Factor	NEC Demand Load	Panel Totals	
G	1920.0	100.00%	1920.0		
R	17280.0	78.94%	13640.0	**Total Connected Load:**	19200.00 VA
				Total NEC Demand:	15560.00 VA
				Total Connected Current:	53.29 A
				Total NEC Demand Current:	43.19 A

PANELBOARD: 1LCA

MAIN LUG ONLY | **MOUNTING:** SURFACE | **Accessories:**
BUS AMPACITY: 100 A | **ENCLOSURE:** TYPE 1
EQUIPMENT RATING: 120/208 V, 3PH, 4 WIRE | **LOCATION:** VEHICLE/MAINTENA...
FOR A/C RATING SEE ONE-LINE DIAGRAM | **SUPPLIED FROM:** 1LC

CKT	Description/Location	Type	C.B.	Pole	Note	Load (VA) A	B	C	A	B	C	Note	Pole	C.B.	Type	Description/Location	CKT
1	ERV-7	Motor	20 A	2		424			799				2	20 A	Motor	EDH-3	2
3	--	--	--	--	--		424			799		--	--	--	--	--	4
5	ERV-8	Motor	20 A	2				865			799		2	20 A	Motor	EDH-4	6
7	--	--	--	--	--	865			799			--	--	--	--	--	8
9	UNIT HEATERS	Mot...	20 A	1			154			998			2	20 A	Motor	EDH-5	10
11	UNIT HEATERS	Motor	20 A	1				710			998	--	--	--	--	--	12
13	EDH-8	Motor	20 A	2		998			1,100				1	20 A	Motor	MOTORIZED DOOR	14
15	--	--	--	--	--		998			1,100			1	20 A	Motor	MOTORIZED DOOR	16
17	SPARE BREAKER	--	20 A	1				0			0		1	20 A	--	SPARE BREAKER	18
19	SPARE BREAKER	--	20 A	1		0			0				1	20 A	--	SPARE BREAKER	20
21	SPARE BREAKER	--	20 A	1			0			0			1	20 A	--	SPARE BREAKER	22
23	SPARE BREAKER	--	20 A	1				0			0		1	20 A	--	SPARE BREAKER	24
25	SPARE BREAKER	--	20 A	1		0			--				1	--	--	BUSSED SPACE	26
27	SPARE BREAKER	--	20 A	1			0			--			1	--	--	BUSSED SPACE	28
29	BUSSED SPACE	--	--	1				--			--		1	--	--	BUSSED SPACE	30
31	BUSSED SPACE	--	--	1		--			--				1	--	--	BUSSED SPACE	32
33	BUSSED SPACE	--	--	1			--			--			1	--	--	BUSSED SPACE	34
35	BUSSED SPACE	--	--	1				--			--		1	--	--	BUSSED SPACE	36
37	BUSSED SPACE	--	--	1		--			--				1	--	--	BUSSED SPACE	38
39	BUSSED SPACE	--	--	1			--			--			1	--	--	BUSSED SPACE	40
41	BUSSED SPACE	--	--	1				--			--		1	--	--	BUSSED SPACE	42
	Total Connected load Ph. A					43 A			Panel Connected Load:		12.83 kVA					35.61 A	
	Total Connected load Ph. B					39 A			Total Demand Load:		13.33 kVA					36.99 A	
	Total Connected load Ph. C					28 A											

Notes:

Load Type Definitions:
Motor (125% largest Motor + 100% remaining... | K = Kitchen (Demand as per NEC Table 220.56) | C = Continuous Load (125%) | X = X-Rays (Demand per NEC 660.6)
R = Receptacles (to 10kVA100%, over 10 kVA 50%) | G = General Load (Non-continuous) (100%) | L = Lighting (125%) | H = Heating (100%)
E = Existing Load 30-day metered (125%) | EL = Elevator (Demand as per NEC Table... | W = Water Heater (125%)

Load Type	Connected Load	NEC Demand Factor	NEC Demand Load	Panel Totals	
Motor	12828.0	103.89%	13327.0		
HVAC	0.0	0.00%	0.0	**Total Connected Load:**	12828.00 VA
				Total NEC Demand:	13327.00 VA
				Total Connected Current:	35.61 A
				Total NEC Demand Current:	36.99 A

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-121159 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 2/19/2025

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rev	date	issue
2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

REGISTERED PROFESSIONAL ENGINEER
JEANNE McCARTHY
No. E23809
Exp: 03/31/26
ELECTRICAL
STATE OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD,
HAYWARD, CA 94545

plot date:
project number: 20-296
date: 12/11/2024

SCHEDULES - ELECTRICAL

E6.02

PANELBOARD: 2LA

MAIN CIRCUIT BREAKER 100 A
BUS AMPACITY: 225 A
EQUIPMENT RATING: 120/208 V, 3PH, 4 WIRE
FOR AIC RATING SEE ONE-LINE DIAGRAM

MOUNTING: SURFACE
ENCLOSURE: TYPE 1
LOCATION: Space 279
SUPPLIED FROM: DP1LA
Accessories:

CKT	Description/Location	Type	C.B.	Pole	Note	Load (VA) A	B	C	A	B	C	Note	Pole	C.B.	Type	Description/Location	CKT
1	RECEPT - OFFICE 201/202	R	20 A	1		1,440			360				1	20 A	R	R IDF ROOM 272	2
3	RECEPT - OFFICE 210/214	R	20 A	1			1,080			180			1	20 A	R	R IDF ROOM 272	4
5	RECEPT - MTG RM 215	R	20 A	1				720			720		1	20 A	R	RECEPT - MTG RM 205	6
7	RECEPT - LOCKSMITH 211	R	20 A	1		720			720				1	20 A	R	RECEPT - MTG RM 205	8
9	CLG ELEC. DROP OUTLET	R	20 A	1			180			180			1	20 A	R	LOUNGE 203 - FRIDGE	10
11	RECEPT - M/W RESTROOM	R	20 A	1	1			720			360	1	1	20 A	R	LOUNGE 203 - RECEPT	12
13	DRINKING FOUNTAIN	R	20 A	1	1	180			180			1	1	20 A	R	LOUNGE 203 - EQUIPT	14
15	RECEPT- ELEC/JANITOR	R	20 A	1			360			180		1	1	20 A	R	LOUNGE 203 - RECEPT	16
17	MTG RM 215/ADMIN 218 FLOOR...	R	20 A	1				1,080			540		1	20 A	R	LOUNGE 203 - SEATING REC	18
19	RECEPT-M&O STORAGE	R	20 A	1		900			1,080				1	20 A	R	RECEPT- CORRIDOR	20
21	MOTORIZED SCREEN	Motor	20 A	1			300			540			1	20 A	R	RECEPT- CORRIDOR	22
23	RECEPT - LOUNGE/DIRECTOR 220	R	20 A	1				1,080			360		1	20 A	R	RECEPT- STORAGE 222	24
25	RECEPT LOUNGE/BREAK ROOM...	R	20 A	1		180			500				1	20 A	R	EQ-091	26
27	MAU-2 LIGHTS AND RECEPTACLE	R	20 A	1			360			500			1	20 A	R	EQ-090	28
29	RECEPT LOUNGE/BREAK ROOM...	R	20 A	1				180			180		1	20 A	R	RECEPT SM MTG RM 267	30
31	RECEPT PLAN ROOM 252	R	20 A	1		180			--				1	--	--	BUSSED SPACE	32
33	BUSSED SPACE	--	--	1			--			--			1	--	--	BUSSED SPACE	34
35	BUSSED SPACE	--	--	1				--			--		1	--	--	BUSSED SPACE	36
37	BUSSED SPACE	--	--	1		--			--				1	--	--	BUSSED SPACE	38
39	BUSSED SPACE	--	--	1			--			--			1	--	--	BUSSED SPACE	40
41	BUSSED SPACE	--	--	1				--			--		1	--	--	BUSSED SPACE	42
	Total Connected load Ph. A					56 A			Panel Connected Load: 16.24 kVA							45.08 A	
	Total Connected load Ph. B					32 A			Total Demand Load: 13.35 kVA							37.04 A	
	Total Connected load Ph. C					52 A											

Notes:
1. PROVIDE GFCI TYPE CIRCUIT BREAKER.

Load Type Definitions:
Motor (125% largest Motor + 100% remaining...
R = Receptacles (to 10kVA100%, over 10 kVA 50%)
E = Existing Load 30-day metered (125%)
K = Kitchen (Demand as per NEC Table 220.56)
G = General Load (Non-continuous) (100%)
EL = Elevator (Demand as per NEC Table...
C = Continuous Load (125%)
L = Lighting (125%)
W = Water Heater (125%)
X = X-Rays (Demand per NEC 660.6)
H = Heating (100%)

Load Type	Connected Load	NEC Demand Factor	NEC Demand Load	Panel Totals	
Motor	300.0	125.00%	375.0		
R	15940.0	81.37%	12970.0	**Total Connected Load:**	16240.00 VA
				Total NEC Demand:	13345.00 VA
				Total Connected Current:	45.08 A
				Total NEC Demand Current:	37.04 A

PANELBOARD: 2LB

MAIN CIRCUIT BREAKER 400 A
BUS AMPACITY: 400 A
EQUIPMENT RATING: 120/208 V, 3PH, 4 WIRE
FOR AIC RATING SEE ONE-LINE DIAGRAM

MOUNTING: SURFACE
ENCLOSURE: TYPE 1
LOCATION: Space 279
SUPPLIED FROM: DP1LA
Accessories:

CKT	Description/Location	Type	C.B.	Pole	Note	Load (VA) A	B	C	A	B	C	Note	Pole	C.B.	Type	Description/Location	CKT
1	ERV-12	M	20 A	3		2,378			210				1	20 A	M	EF-2, EF-3, EF-4	2
3	--	--	--	--	--		2,378			180			1	20 A	R	AHU-1 LIGHTS AND RECEPT	4
5	--	--	--	--	--			2,378			360		1	20 A	R	ROOF CONVENIENCE RECEPT	6
7	HP-2	M	20 A	2		936			1,000				1	20 A	G	VAV BOXES	8
9	--	--	--	--	--		936										10
11	ERV-1	M	30 A	3				2,846			1,144		2	20 A	M	M	12
13	--	--	--	--	--	2,846			1,144			--	--	--	--	--	14
15	--	--	--	--	--		2,846			1,645			3	20 A	M	MUA-1	16
17	ERV-2	M	30 A	3				2,474			1,645	--	--	--	--	--	18
19	--	--	--	--	--	2,474			1,645			--	--	--	--	--	20
21	--	--	--	--	--		2,474			1,177			3	20 A	M	MUA-2	22
23	HP-1	M	20 A	2				936			1,177	--	--	--	--	--	24
25	--	--	--	--	--	936			1,177			--	--	--	--	--	26
27	HP-6	M	20 A	2			936			936			2	20 A	M	HP-4	28
29	--	--	--	--	--			936			936	--	--	--	--	--	30
31	ERV-9	M	20 A	3		3,242			1,976				2	30 A	M	HP-5	32
33	--	--	--	--	--		3,242			1,976		--	--	--	--	--	34
35	--	--	--	--	--			3,242			1,144		2	20 A	M	HP-8	36
37	ERV-10	M	20 A	3		3,242			1,144			--	--	--	--	--	38
39	--	--	--	--	--		3,242			1,080			1	20 A	R	2ND FLOOR ROOF CONV RECEPT	40
41	--	--	--	--	--			3,242			180		1	20 A	R	2ND FLOOR ROOF CONV RECEPT	42
43	M FILTER/MISC STORAGE 262	M	20 A	2		599			530				2	20 A	M	ERV-11	44
45	--	--	--	--	--		599			530		--	--	--	--	--	46
47	UH-12	M	20 A	1				192			2,600		2	30 A	M	HP-10	48
49	HP-9	M	30 A	2		2,600			2,600			--	--	--	--	--	50
51	--	--	--	--	--		2,600			0			1	20 A	--	SPARE BREAKER	52
53	SPARE BREAKER	--	20 A	1				0			0		1	20 A	--	SPARE BREAKER	54
55	SPARE BREAKER	--	20 A	1		0			0				1	20 A	--	SPARE BREAKER	56
57	SPARE BREAKER	--	20 A	1			0			0			1	20 A	--	SPARE BREAKER	58
59	SPARE BREAKER	--	20 A	1				0			0		1	20 A	--	SPARE BREAKER	60
	Total Connected load Ph. A					257 A			Panel Connected Load: 82.89 kVA							230.08 A	
	Total Connected load Ph. B					225 A			Total Demand Load: 87.75 kVA							243.58 A	
	Total Connected load Ph. C					212 A											

Notes:

Load Type Definitions:
Motor (125% largest Motor + 100% remaining...
R = Receptacles (to 10kVA100%, over 10 kVA 50%)
E = Existing Load 30-day metered (125%)
K = Kitchen (Demand as per NEC Table 220.56)
G = General Load (Non-continuous) (100%)
EL = Elevator (Demand as per NEC Table...
C = Continuous Load (125%)
L = Lighting (125%)
W = Water Heater (125%)
X = X-Rays (Demand per NEC 660.6)
H = Heating (100%)

Load Type	Connected Load	NEC Demand Factor	NEC Demand Load	Panel Totals	
Motor	9727.0	125.00%	12158.8		
G	1000.0	100.00%	1000.0	**Total Connected Load:**	82889.28 VA
R	1800.0	100.00%	1800.0	**Total NEC Demand:**	87752.78 VA
M	70362.3	103.46%	72794.0	**Total Connected Current:**	230.08 A
				Total NEC Demand Current:	243.58 A

PANELBOARD: EH1A

MAIN CIRCUIT BREAKER 50 A
BUS AMPACITY: 225 A
EQUIPMENT RATING: 480/277 V, 3PH, 4 WIRE
FOR AIC RATING SEE ONE-LINE DIAGRAM

MOUNTING: SURFACE
ENCLOSURE: TYPE 1
LOCATION: ELECTRICAL ROOM...
SUPPLIED FROM: MSB
Accessories:

CKT	Description/Location	Type	C.B.	Pole	Note	Load (VA) A	B	C	A	B	C	Note	Pole	C.B.	Type	Description/Location	CKT
1	EX1A	Spar...	20 A	3		1,220			60				1	20 A	L	LTG - ELEV CONTROL RM	2
3	--	--	--	--	--		1,500			0			1	20 A	--	SPARE BREAKER	4
5	--	--	--	--	--			200			0		1	20 A	--	SPARE BREAKER	6
7	GND FLOOR EXIT SIGNS	L	20 A	1		26			0				1	20 A	--	SPARE BREAKER	8
9	2ND FLOOR EXIT SIGNS	L	20 A	1			16			0			1	20 A	--	SPARE BREAKER	10
11	GND FLOOR EM LTG	L	20 A	1				2,832			0		1	20 A	--	SPARE BREAKER	12
13	2ND FLOOR EM LTG	L	20 A	1		855			--				1	--	--	BUSSED SPACE	14
15	EXTERIOR EM LTG	L	20 A	1			202			--			1	--	--	BUSSED SPACE	16
17	GROUND FLOOR LTG	L	20 A	1				2,310			--		1	--	--	BUSSED SPACE	18
19	SPARE BREAKER	--	20 A	1		0			--				1	--	--	BUSSED SPACE	20
21	SPARE BREAKER	--	20 A	1			0			--			1	--	--	BUSSED SPACE	22
23	SPARE BREAKER	--	20 A	1				0			--		1	--	--	BUSSED SPACE	24
25	SPARE BREAKER	--	20 A	1		0			--				1	--	--	BUSSED SPACE	26
27	SPARE BREAKER	--	20 A	1			0			--			1	--	--	BUSSED SPACE	28
29	SPARE BREAKER	--	20 A	1				0			--		1	--	--	BUSSED SPACE	30
	Total Connected load Ph. A					8 A			Panel Connected Load: 9.22 kVA							11.09 A	
	Total Connected load Ph. B					6 A			Total Demand Load: 11.10 kVA							13.35 A	
	Total Connected load Ph. C					20 A											

Notes:

Load Type Definitions:
Motor (125% largest Motor + 100% remaining...
R = Receptacles (to 10kVA100%, over 10 kVA 50%)
E = Existing Load 30-day metered (125%)
K = Kitchen (Demand as per NEC Table 220.56)
G = General Load (Non-continuous) (100%)
EL = Elevator (Demand as per NEC Table...
C = Continuous Load (125%)
L = Lighting (125%)
W = Water Heater (125%)
X = X-Rays (Demand per NEC 660.6)
H = Heating (100%)

Load Type	Connected Load	NEC Demand Factor	NEC Demand Load	Panel Totals	
L	7300.9	125.00%	9126.1		
Motor	100.0	125.00%	125.0	**Total Connected Load:**	9220.88 VA
G	1000.0	100.00%	1000.0	**Total NEC Demand:**	11096.10 VA
R	720.0	100.00%	720.0	**Total Connected Current:**	11.09 A
M	100.0	125.00%	125.0	**Total NEC Demand Current:**	13.35 A

PANELBOARD: EL1A

MAIN CIRCUIT BREAKER 100 A
BUS AMPACITY: 225 A
EQUIPMENT RATING: 120/208 V, 3PH, 4 WIRE
FOR AIC RATING SEE ONE-LINE DIAGRAM

MOUNTING: SURFACE
ENCLOSURE: TYPE 1
LOCATION: ELECTRICAL ROOM...
SUPPLIED FROM: EX1A
Accessories:

CKT	Description/Location	Type	C.B.	Pole	Note	Load (VA) A	B	C	A	B	C	Note	Pole	C.B.	Type	Description/Location	CKT
1	FACP	G	20 A	1		500			720				1	20 A	R	ELEVATOR MACHINE ROOM...	2
3	NAC	G	20 A	1			500			1,000			1	20 A	L	ELEVATOR MACHINE ROOM...	4
5	FSD	M	20 A	1				200			0		1	20 A	--	SPARE BREAKER	6
7	SPARE BREAKER	--	20 A	1		0			0				1	20 A	--	SPARE BREAKER	8
9	SPARE BREAKER	--	20 A	1			0			0			1	20 A	--	SPARE BREAKER	10
11	SPARE BREAKER	--	20 A	1				0			0		1	20 A	--	SPARE BREAKER	12
13	SPARE BREAKER	--	20 A	1		0			--				1	--	--	BUSSED SPACE	14
15	SPARE BREAKER	--	20 A	1			0			--			1	--	--	BUSSED SPACE	16
17	BUSSED SPACE	--	--	1				--			--		1	--	--	BUSSED SPACE	18
19	BUSSED SPACE	--	--	1		--			--				1	--	--	BUSSED SPACE	20
21	BUSSED SPACE	--	--	1			--			--			1	--	--	BUSSED SPACE	22
23	BUSSED SPACE	--	--	1				--			--		1	--	--	BUSSED SPACE	24
25	BUSSED SPACE	--	--	1		--			--				1	--	--	BUSSED SPACE	26
27	BUSSED SPACE	--	--	1			--			--			1	--	--	BUSSED SPACE	28
29	BUSSED SPACE	--	--	1				--			--		1	--	--	BUSSED SPACE	30
	Total Connected load Ph. A					11 A			Panel Connected Load: 2.92 kVA							8.11 A	
	Total Connected load Ph. B					14 A			Total Demand Load: 3.22 kVA							8.94 A	
	Total Connected load Ph. C					2 A											

Notes:

Load Type Definitions:
Motor (125% largest Motor + 100% remaining...
R = Receptacles (to 10kVA100%, over 10 kVA 50%)
E = Existing Load 30-day metered (125%)
K = Kitchen (Demand as per NEC Table 220.56)
G = General Load (Non-continuous) (100%)
EL = Elevator (Demand as per NEC Table...
C = Continuous Load (125%)
L = Lighting (125%)
W = Water Heater (125%)
X = X-Rays (Demand per NEC 660.6)
H = Heating (100%)

Load Type	Connected Load	NEC Demand Factor	NEC Demand Load	Panel Totals	
L	1000.0	125.00%	1250.0		
Motor	100.0	125.00%	125.0	**Total Connected Load:**	2920.00 VA
G	1000.0	100.00%	1000.0	**Total NEC Demand:**	3220.00 VA
R	720.0	100.00%	720.0	**Total Connected Current:**	8.11 A
M	100.0	125.00%	125.0	**Total NEC Demand Current:**	8.94 A

PANELBOARD: SH1A

MAIN CIRCUIT BREAKER 100 A
BUS AMPACITY: 225 A
EQUIPMENT RATING: 480/277 V, 3PH, 4 WIRE
FOR AIC RATING SEE ONE-LINE DIAGRAM

MOUNTING: SURFACE
ENCLOSURE: TYPE 1
LOCATION: ELECTRICAL ROOM...
SUPPLIED FROM: MSB
Accessories:

CKT	Description/Location	Type	C.B.	Pole	Note	Load (VA) A	B	C	A	B	C	Note	Pole	C.B.	Type	Description/Location	CKT
1	SX1A	R...	20 A	3		12,255			0				1	1	20 A	--	SPARE BREAKER	2
3	--	--	--	--	--		10,315			0			1	1	20 A	--	SPARE BREAKER	4
5	--	--	--	--	--			10,283			0		1	1	20 A	--	SPARE BREAKER	6
7	SPARE BREAKER	--	20 A	1	1	0			0				1	1	20 A	--	SPARE BREAKER	8
9	SPARE BREAKER	--	20 A	1	1		0			0			1	1	20 A	--	SPARE BREAKER	10
11	SPARE BREAKER	--	20 A	1	1			0			0		1	1	20 A	--	SPARE BREAKER	12
13	SPARE BREAKER	--	20 A	1	1	0			0				1	1	20 A	--	SPARE BREAKER	14
15	SPARE BREAKER	--	20 A	1	1		0			0			1	1	20 A	--	SPARE BREAKER	16
17	SPARE BREAKER	--	20 A	1	1			0			0		1	1	20 A	--	SPARE BREAKER	18
19	SPARE BREAKER	--	20 A	1	1	0			0				1	1	20 A	--	SPARE BREAKER	20
21	SPARE BREAKER	--	20 A	1	1		0			0			1	1	20 A	--	SPARE BREAKER	22
23	SPARE BREAKER	--	20 A	1	1			0			0		1	1	20 A	--	SPARE BREAKER	24
25	SPARE BREAKER	--	20 A	1	1	0			0				1	1	20 A	--	SPARE BREAKER	26
27	SPARE BREAKER	--	20 A	1	1		0			0			1	1	20 A	--	SPARE BREAKER	28
29	BUSSED SPACE	--	--	1				--			--		1	--	--	BUSSED SPACE	30
31	BUSSED SPACE	--	--	1		--			--				1	--	--	BUSSED SPACE	32
33	BUSSED SPACE	--	--	1			--			--			1	--	--	BUSSED SPACE	34
35	BUSSED SPACE	--	--	1				--			--		1	--	--	BUSSED SPACE	36
37	BUSSED SPACE	--	--	1		--			--				1	--	--	BUSSED SPACE	38
39	BUSSED SPACE	--	--	1			--			--			1	--	--	BUSSED SPACE	40
41	BUSSED SPACE	--	--	1				--			--		1	--	--	BUSSED SPACE	42
	Total Connected load Ph. A					44 A			Panel Connected Load: 32.85 kVA							39.52 A	
	Total Connected load Ph. B					37 A			Total Demand Load: 35.17 kVA							42.30 A	
	Total Connected load Ph. C					37 A											

Notes:
1. SPARE BREAKERS INTENDED FOR FUTURE USE.

Load Type Definitions:
Motor (125% largest Motor + 100% remaining...
R = Receptacles (to 10kVA100%, over 10 kVA 50%)
E = Existing Load 30-day metered (125%)
K = Kitchen (Demand as per NEC Table 220.56)
G = General Load (Non-continuous) (100%)
EL = Elevator (Demand as per NEC Table...
C = Continuous Load (125%)
L = Lighting (125%)
W = Water Heater (125%)
X = X-Rays (Demand per NEC 660.6)
H = Heating (100%)

Load Type	Connected Load	NEC Demand Factor	NEC Demand Load	Panel Totals	
Motor	5200.0	125.00%	6500.0		
R	3600.0	100.00%	3600.0	**Total Connected Load:**	32853.00 VA
HVAC	0.0	0.00%	0.0	**Total NEC Demand:**	35167.00 VA
M	6344.0	115.98%	7358.0	**Total Connected Current:**	39.52 A
Equipment	17709.0	100.00%	17709.0	**Total NEC Demand Current:**	42.30 A

PANELBOARD: SL1A

MAIN CIRCUIT BREAKER 150 A
BUS AMPACITY: 225 A
EQUIPMENT RATING: 120/208 V, 3PH, 4 WIRE
FOR AIC RATING SEE ONE-LINE DIAGRAM

MOUNTING: SURFACE
ENCLOSURE: TYPE 1
LOCATION: ELECTRICAL ROOM...
SUPPLIED FROM: SX1A
Accessories:

CKT	Description/Location	Type	C.B.	Pole	Note	Load (VA) A	B	C	A	B	C	Note	Pole	C.B.	Type	Description/Location	CKT
1	CU-1	M	20 A	2		1,144			2,028				2	30 A	M	CU-2	2
3	--	--	--	--	--		1,144			2,028		--	--	--	--	--	4
5	RECEPT - OFFICE 201/202	R	20 A	1				540			2,600		2	20 A	M	HP-3	6
7	RECEPT - OFFICE 214/210	R	20 A	1		360			2,600			--	--	--	--	--	8
9	RECEPT - CARPENTRY 108	R	20 A	1			180			360			1	20 A	R...	RECEPT - BDF ROOM	10
11	RECEPT - HVAC SHOP 110	R	20 A	1				180			360		1	20 A	R	BDF IT EQUIPMENT	12
13	R MECHANICAL ROOM 204	R	20 A	1		540			360				1	20 A	R	BDF IT EQUIPMENT	14
15	R MECHANICAL ROOM 204	R	20 A	1			360			1,200			1	20 A	Equi...	EQS-07	16
17	R MECHANICAL ROOM 204	R	20 A	1				360			1,200		1	20 A	Equi...	EQS-07	18
19	EQS-006	Equi...	40 A	3		3,603			1,200				1	20 A	Equi...	EQS-07	20
21	--	--	--	--	--		3,603			1,440			1	20 A	Equi...	EQS-08	22
23	--	--	--	--	--			3,603			1,440		1	20 A	Equi...	EQS-08	24
25	BUSSED SPACE	--	--	1		--			420				1	20 A	Equi...	EQS-09	26
27	BUSSED SPACE	--	--	1			--			--			1	--	--	BUSSED SPACE	28
29	BUSSED SPACE	--	--	1				--			--		1	--	--	BUSSED SPACE	30
31	BUSSED SPACE	--	--	1		--			--				1	--	--	BUSSED SPACE	32
33	BUSSED SPACE	--	--	1			--			--			1	--	--	BUSSED SPACE	34
35	BUSSED SPACE	--	--	1				--			--		1	--	--	BUSSED SPACE	36
37	BUSSED SPACE	--	--	1		--			--				1	--	--	BUSSED SPACE	38
39	BUSSED SPACE	--	--	1			--			--			1	--	--	BUSSED SPACE	40
41	BUSSED SPACE	--	--	1				--			--		1	--	--	BUSSED SPACE	42
	Total Connected load Ph. A					102 A			Panel Connected Load: 32.85 kVA							91.19 A	
	Total Connected load Ph. B					86 A			Total Demand Load: 35.17 kVA							97.61 A	
	Total Connected load Ph. C					86 A											

Notes:

Load Type Definitions:
Motor (125% largest Motor + 100% remaining...
R = Receptacles (to 10kVA100%, over 10 kVA 50%)
E = Existing Load 30-day metered (125%)
K = Kitchen (Demand as per NEC Table 220.56)
G = General Load (Non-continuous) (100%)
EL = Elevator (Demand as per NEC Table...
C = Continuous Load (125%)
L = Lighting (125%)
W = Water Heater (125%)
X = X-Rays (Demand per NEC 660.6)
H = Heating (100%)

Load Type	Connected Load	NEC Demand Factor	NEC Demand Load	Panel Totals	
Motor	5200.0	125.00%	6500.0		
R	3600.0	100.00%	3600.0	**Total Connected Load:**	32853.00 VA
HVAC	0.0	0.00%	0.0	**Total NEC Demand:**	35167.00 VA
M	6344.0	115.98%	7358.0	**Total Connected Current:**	91.19 A
Equipment	17709.0	100.00%	17709.0	**Total NEC Demand Current:**	97.61 A

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2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

REGISTERED PROFESSIONAL ENGINEER
WAYNE McCARTHY
No. E23849
Exp: 03/31/26
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plot date:
project number: 20-296
date: 12/11/2024

SCHEDULES - ELECTRICAL

E6.03

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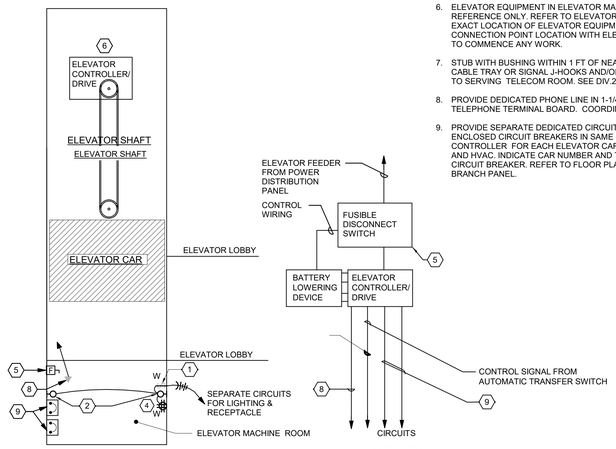
DETAIL KEYNOTES

1. PROVIDE WEATHERPROOF TOGGLE SWITCH FOR PIT LIGHTING CIRCUIT BY TOP OF PIT LADDER.
2. PROVIDE NEMA 4 SURFACE MOUNTED LED GASKETED LUMINAIRE, TYPICAL OF FOUR. MOUNT ONE LUMINAIRE ON EACH WALL. AVOID LOCATING LUMINAIRES DIRECTLY BEHIND BEAMS OR STRUCTURE THAT WOULD BLOCK LIGHT. WIRING SHALL BE IDENTIFIED FOR WET LOCATIONS. SEE LUMINAIRE SCHEDULE FOR TYPE AND REQUIREMENT.
3. ROOM LIGHTING. SEE LUMINAIRE SCHEDULE FOR TYPE, FLOOR PLAN FOR QUANTITY AND REQUIREMENT.
4. PROVIDE SEPARATE DEDICATED BRANCH CIRCUITS FOR LUMINAIRES AND GFCI RECEPTACLES IN ELEVATOR MACHINE ROOM, HOISTWAY, AND ELEVATOR PIT, PER N.E.C. ARTICLES 620.23 AND 620.24.
5. PROVIDE FUSIBLE DISCONNECT SWITCH. SIZE OF ENCLOSED CIRCUIT BREAKER DISCONNECT SWITCH AS NOTED ON DRAWINGS.
6. ELEVATOR EQUIPMENT IN ELEVATOR MACHINE ROOM SHOWN FOR REFERENCE ONLY. REFER TO ELEVATOR SHOP DRAWINGS FOR EXACT LOCATION OF ELEVATOR EQUIPMENT. COORDINATE CONNECTION POINT LOCATION WITH ELEVATOR VENDOR PRIOR TO COMMENCE ANY WORK.
7. STUB WITH BUSHING WITHIN 1 FT OF NEAREST EXISTING SIGNAL CABLE TRAY OR SIGNAL J-HOOKS AND/OR PROVIDE CONDUIT UP TO SERVING TELECOM ROOM. SEE DIV.27 FOR REQUIREMENTS.
8. PROVIDE DEDICATED PHONE LINE IN 1-1/4" CONDUIT TO TELEPHONE TERMINAL BOARD. COORDINATE WITH DIVISION 27.
9. PROVIDE SEPARATE DEDICATED CIRCUITS AND LOCKABLE ENCLOSED CIRCUIT BREAKERS IN SAME SPACE AS ELEVATOR CONTROLLER FOR EACH ELEVATOR CAR LIGHTS/EXHAUST FAN AND HVAC. INDICATE CAR NUMBER AND TYPE OF LOAD AT EACH CIRCUIT BREAKER. REFER TO FLOOR PLAN FOR LOCATION OF BRANCH PANEL.

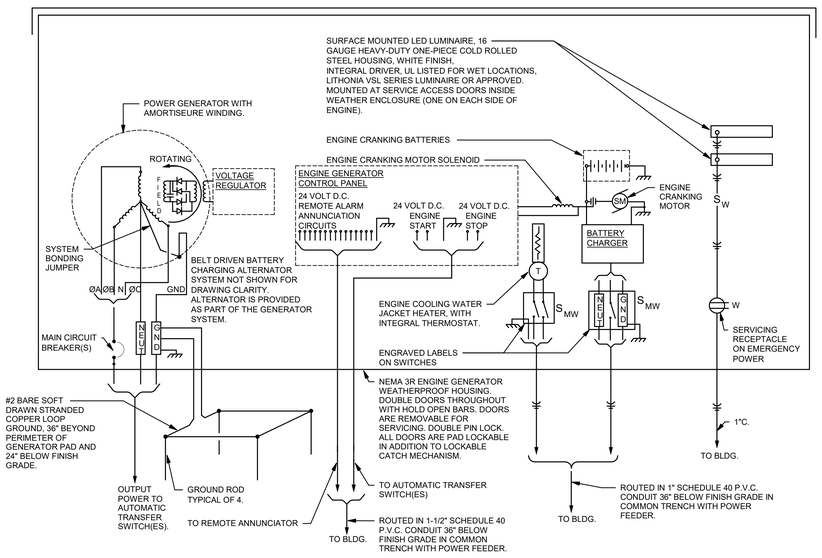


ELEVATION

WIRING SCHEMATIC

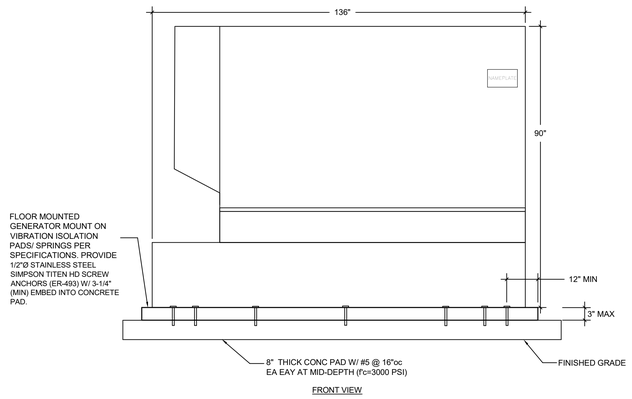
1 TRACTION TYPE ELEVATOR ELECTRICAL DETAIL

NO SCALE

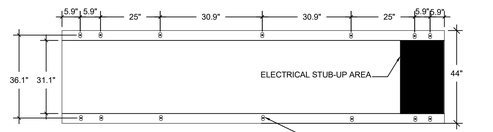


2 EXTERIOR ENGINE GENERATOR DIAGRAM

NO SCALE



FRONT VIEW

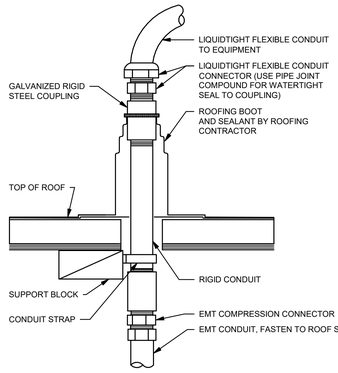


FLOOR PLAN

WEIGHT: 6004 LBS

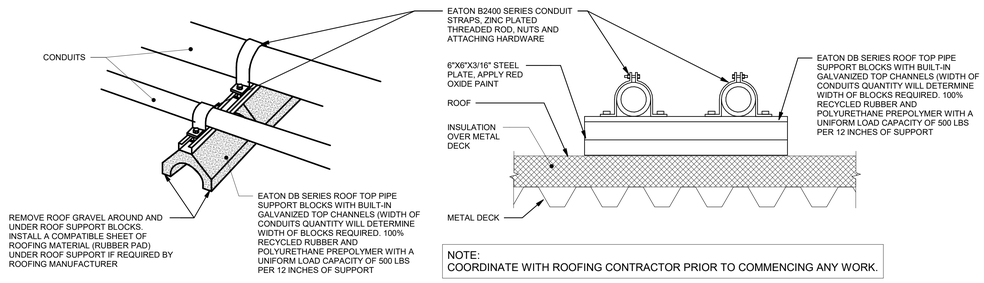
3 GENERATOR ANCHORAGE DETAIL

NO SCALE



4 CONDUIT THROUGH ROOF

NO SCALE



NOTE:
COORDINATE WITH ROOFING CONTRACTOR PRIOR TO COMMENCING ANY WORK.

5 CONDUIT SUPPORT ON ROOF DETAIL

NO SCALE

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1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

REGISTERED PROFESSIONAL ENGINEER
RENE McCARTY
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DETAILS - ELECTRICAL

E7.01

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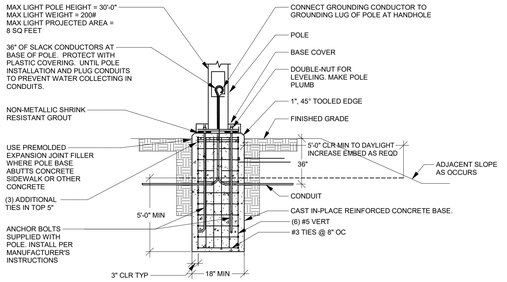


GENERAL DETAIL NOTES:

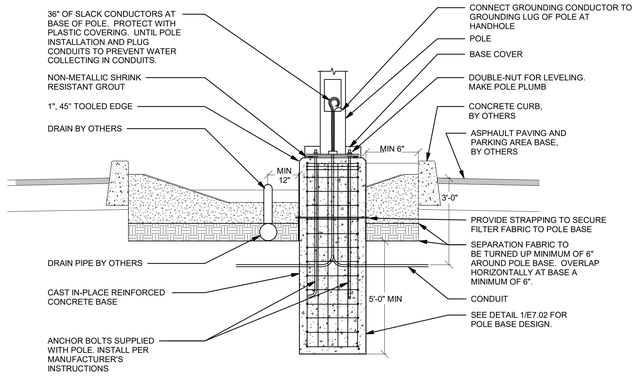
A. CONDUCTORS THROUGH POLE TO LUMINAIRE TO BE RATED 90° C

B. SEE LUMINAIRE SCHEDULE FOR POLE HEIGHT.

LIGHTING POLES < 35FT TALL ARE EXEMPT FROM DSA STRUCTURAL SAFETY REIVEW PER IR A-22.

SECTION - AREA LUMINAIRE
1 STANDARD PEDESTAL ANCHOR BASE

NO SCALE



GENERAL DETAIL NOTES:

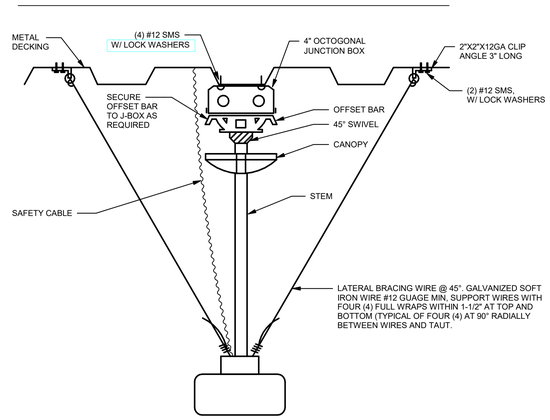
A. CONDUCTORS THROUGH POLE TO LUMINAIRE TO BE RATED 90° C

B. SEE LUMINAIRE SCHEDULE FOR POLE HEIGHT.

LIGHTING POLES < 35FT TALL ARE EXEMPT FROM DSA STRUCTURAL SAFETY REIVEW PER IR A-22.

4 SECTION - AREA LUMINAIRE BIORETENTION FACILITY PEDESTAL BASE

NO SCALE



7 PENDANT STEM MOUNTED LUMINAIRE

NO SCALE

2 BOLLARD BASE DETAIL

NO SCALE

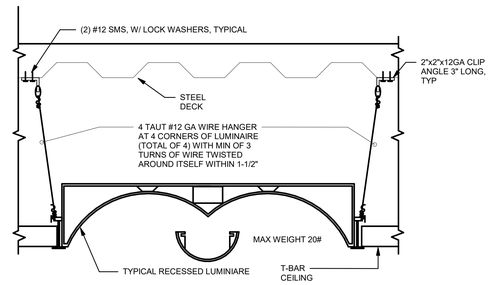
NOTE: FOR INSTALLATION AT METAL DECK

5 RECESSED LED DOWNLIGHT LUMINAIRE

NO SCALE

3 PENDANT MOUNTED LUMINAIRE AT OPEN CEILING

NO SCALE



NOTE: FOR INSTALLATION AT METAL DECK

6 RECESSED LED LUMINAIRE HANGING METHOD

NO SCALE

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	2022.02.28	SCHEMATIC DESIGN

REGISTERED PROFESSIONAL ENGINEER
RENANE McCARTHY
No. E23849
Exp: 03/31/26
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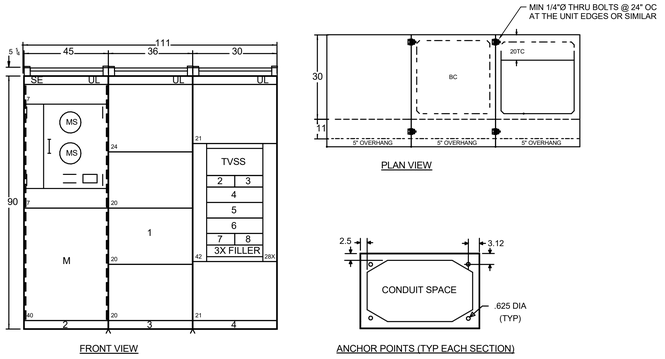
plot date:
project number: 20-296
date: 12/11/2024

DETAILS - ELECTRICAL

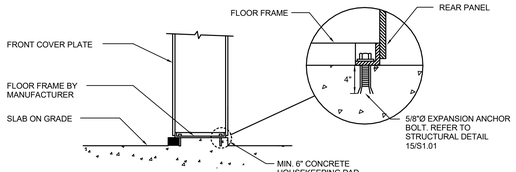
E7.02



FRONT VIEW

PLAN VIEW

ANCHOR POINTS (TYP EACH SECTION)



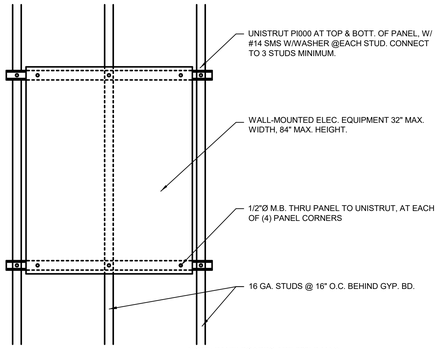
ANCHORING

ALL DIMENSIONS AND DETAILS SHOWN FOR REFERENCE ONLY AND BASED ON EATON AS BASIS OF DESIGN.

WEIGHT: 1900 LBS

1 MAIN SWITCHBOARD ELEVATION DETAIL

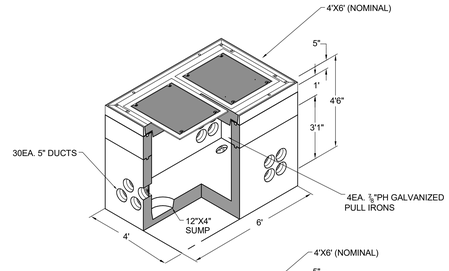
NO SCALE

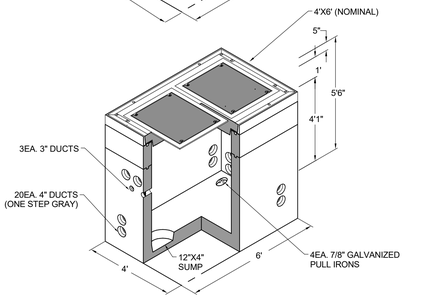


NOTE: PANELBOARDS ARE 220LB MAX.

3 TYPICAL BRANCH PANELBOARD DETAIL

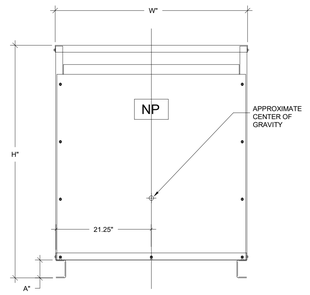
NO SCALE



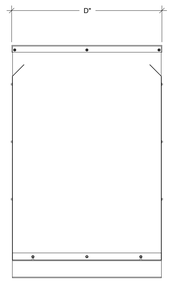


5 PULLBOX DETAIL

NO SCALE

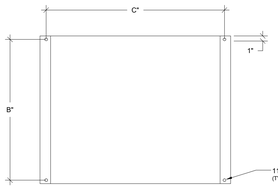


FRONT ELEVATION

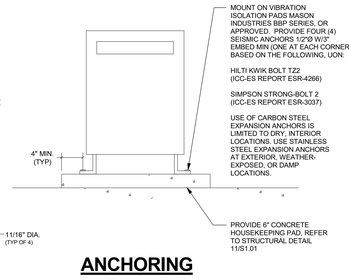


SIDE VIEW

TRANSFORMER DIMENSIONS & WEIGHTS (BASIS OF DESIGN: EATON & COPPER WINDINGS)				
XFMR RATING	**30**	**45**	**75**	**300**
D (IN.)	21.1	24	31.5	32.6
W (IN.)	24.9	30.5	34.5	44.2
H (IN.)	36.7	43	50.92	75
B (IN.)	16.6	22.3	22.3	37
C (IN.)	26.2	34.3	34.3	50.1
WT (MAX)	475	658	1115	3900



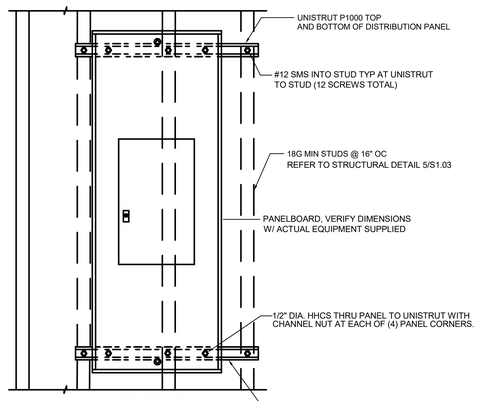
FLOOR PLAN



ANCHORING

2 TRANSFORMERS DETAIL

NO SCALE



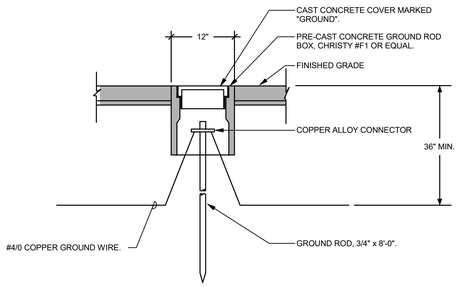
ELEVATION VIEW

DIMENSIONS: 44"W X 10"D X 90"H
WEIGHT: 600 LBS

ALL DIMENSIONS AND DETAILS SHOWN FOR REFERENCE ONLY AND BASED ON EATON AS BASIS OF DESIGN.

4 1000A DISTRIBUTION BOARD DETAIL

NO SCALE



6 GROUND ROD IN WELL

NO SCALE

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DATE: 2/19/2025

brick.

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rev	date	issue
2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

REGISTERED PROFESSIONAL ENGINEER
BLAINE McCARTHY
No. E23809
Exp: 03/31/26
ELECTRICAL
STATE OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD,
HAYWARD, CA 94545

plot date:
project number: 20-296
date: 12/11/2024

DETAILS - ELECTRICAL

E7.03

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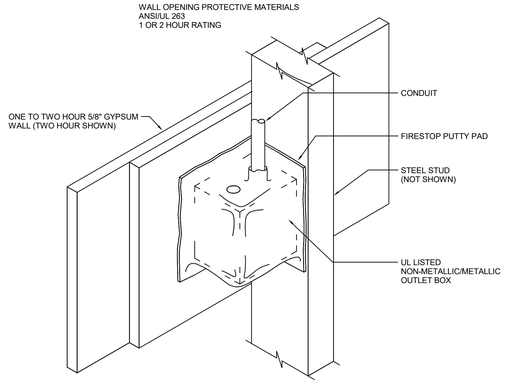
file:

Wall Opening Protective Materials (CLIV)
CP617/CP617L
CLIV.R13240



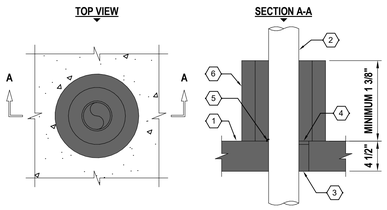
1 FIRESTOP PUTTY PAD DETAIL

NO SCALE

UL/cUL SYSTEM NO. C-AJ-1610

METAL PIPE THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL

F AND T-RATINGS = 2-HR.
L-RATING AT AMBIENT = LESS THAN 1 CFM/SQ. FT.
L-RATING AT 400°F = LESS THAN 1 CFM/SQ. FT.
W-RATING = CLASS I



NOTES:

1. MAXIMUM DIAMETER OF OPENING = 6".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1-1/2".
3. MINIMUM 1/2" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT OR HILTI CP 606 FLEXIBLE FIRESTOP SEALANT IS REQUIRED ON BOTH SIDES OF A WALL.
4. W-RATING ONLY APPLIED WHEN HILTI CP 604 SELF LEVELING FIRESTOP SEALANT IS USED.

DETAIL KEYNOTES

1 CONCRETE FLOOR OR WALL ASSEMBLY (2-HR FIRE-RATING):
- A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR OR WALL (MINIMUM 4-1/2" THICK).
- B. ANY UL/cUL CLASSIFIED CONCRETE BLOCK WALL.

2 PENETRATING ITEM TO BE ONE OF THE FOLLOWING :
- A. MAXIMUM 4" NOMINAL DIAMETER STEEL PIPE (SCH 40 OR HEAVIER).
- B. MAXIMUM 4" NOMINAL DIAMETER CAST OR DUCTILE IRON PIPE.
- C. MAXIMUM 4" NOMINAL DIAMETER STEEL CONDUIT.

3 MINERAL WOOL (MIN. 4 PCF DENSITY) TIGHTLY PACKED AND RECESSED TO ACCOMMODATE SEALANT.

4 MINIMUM 1/2" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT, HILTI CP 606 FLEXIBLE FIRESTOP SEALANT, OR HILTI CP 604 SELF LEVELING FIRESTOP SEALANT.

5 MINIMUM 1/2" BEAD HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT OR HILTI CP 606 FLEXIBLE FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

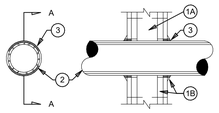
6 TWO LAYERS OF NOMINAL 2" THICK FIBERGLASS DUCT WRAP (MIN. 1 PCF DENSITY) TIGHTLY WRAPPED AROUND PENETRANT AND TIGHTLY BUTTED TO TOP SURFACE OF FLOOR, OR BOTH SIDES OF WALL, AND EXTENDING MINIMUM 12" ABOVE FLOOR, OR PAST BOTH SIDES OF WALL. ALL LONGITUDINAL SEAMS OF BOTH LAYERS OF DUCT WRAP ARE TO BE SEALED WITH FOIL TAPE.

CONDUIT THROUGH FLOOR/CEILING
2 FIRESTOP ASSEMBLY DETAIL

NO SCALE

SYSTEM NO. WL1001

F RATINGS - 1,2,3, AND 4 HR (SEE ITEMS 2 AND 3)
T RATINGS - 0,1,2,3,AND 4 HR (SEE ITEM 3)
L RATING AT AMBIENT - LESS THAN 1 CFM/SQFT
L RATING AT 400F - LESS THAN 1 CFM/SQFT



SECTION A-A

NOTES

1. WHERE PROVIDED, THROUGH-PENETRATION FIRESTOP SYSTEM AND MEMBRANE PENETRATION DETAILS ARE FOR REFERENCE ONLY. THROUGH-PENETRATIONS AND MEMBRANE PENETRATIONS SHALL BE PROTECTED BY AN APPROVED PENETRATION FIRESTOP SYSTEM OR MEMBRANE PENETRATION FIRESTOP SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E 814 OR UL 1479, WITH A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH (2.49 PA) OF WATER OR AS OTHERWISE PERMITTED BY CBC, SECTION 714. LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS AND MEMBRANE PENETRATIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE INSTALLATION DETAILS FOR LISTED SYSTEMS. LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS, MEMBRANE PENETRATION PROTECTION AND OTHER PERMITTED MEANS AND METHODS OF PENETRATION PROTECTION SHALL BE SUBMITTED FOR OSHPD FDD REVIEW AND APPROVAL PRIOR TO INSTALLATION.

DETAIL KEYNOTES

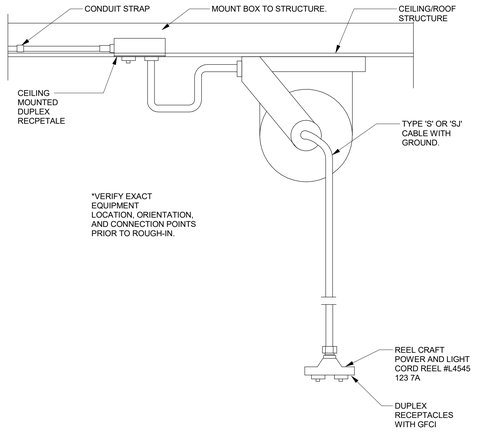
1. WALL ASSEMBLY - THE 1, 2, 3 OR 4 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   - A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX. 2HR FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM. 2 BY 4 IN. LUMBER SPACED 16 IN. OC WITH NOM. 2 BY 4 IN. LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN. 3-5/8 IN. WIDE BY 1-3/8 IN. DEEP CHANNELS SPACED MAX. 24 IN. OC.
   - B. WALLBOARD, GYPSUM - NOM. 1/2 OR 5/8 IN. THICK, 4 FT. WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 13-1/2 IN.
2. PIPE OR CONDUIT - NOM 12 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE, NOM 6 IN. DIAM (OR SMALLER) STEEL CONDUIT, NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR TYPE L OR (OR HEAVIER) COPPER TUBING OR NOM 1 IN. DIAM (OR SMALLER) FLEXIBLE STEEL CONDUIT WHEN. COPPER PIPE OR FLEXIBLE STEEL CONDUIT IS USED, MAX F RATING OF FIRESTOP SYSTEM (ITEM 3) IS 2 HR. STEEL PIPES OR CONDUITS LARGER THAN NOM 4 IN. DIAM MAY ONLY BE USED IN WALLS CONSTRUCTED USING STEEL CHANNEL STUDS. A MAX OF ONE PIPE OR CONDUIT IS PERMITTED IN THE FIRESTOP SYSTEM. PIPE OR CONDUIT TO BE INSTALLED NEAR CENTER OF STUD CAVITY WIDTH AND TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.
3. FILL, VOID OR CAVITY MATERIAL - CAULK - CAULK FILL MATERIAL INSTALLED TO COMPLETELY FILL ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND GYPSUM WALLBOARD AND WITH A MIN 1/4 IN. DIAM BEAD OF CAULK APPLIED TO PERIMETER OF PIPE OR CONDUIT AT ITS EGRESS FROM THE WALL. CAULK INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW:

MAX PIPE OR CONDUIT DIAM, IN.	ANNULAR SPACE IN.	F RATING, HR.	T RATING, HR.
1	0 TO 3/16	1 OR 2	0+, 1 OR 2
1	1/4 TO 1/2	3 OR 4	3 OR 4
4	0 TO 1/4	1 OR 2	0
6	1/4 TO 1/2	3 OR 4	0
12	3/16 TO 3/8	1 OR 2	0

+ WHEN COPPER PIPE IS USED, T RATING IS 0 HR. MINNESOTA MINING & MFG. CO. CAULK MATERIAL AND ASSEMBLY - SHALL BE APPROVED BY OSHPD FIRE MARSHAL.
*BEARING THE UL CLASSIFICATION MARKING

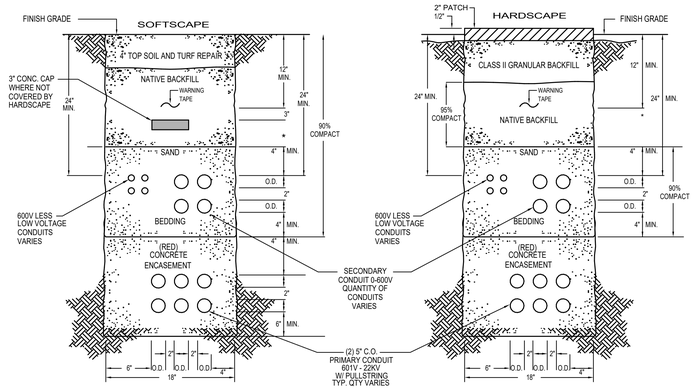
ONE HOUR FIRE-RATED
3 PARTITION CONDUIT PENETRATION DETAIL

NO SCALE



4 CORD REEL

NO SCALE



MINIMUM CLEARANCE REQUIREMENTS (INCHES)

	PC	SC	G	TEL	TV	LV	W
PRIMARY CONDUIT (601V-22KV) (PC)	-	6	36	36	36	36	36
SECONDARY POWER CONDUIT (0-600V) (SC)	6	-	12	12	12	12	36
GAS (G)	36	12	-	12	12	12	36
TELEPHONE (TEL)	36	12	12	-	2	2	36
CATV (TV)	36	12	12	2	-	2	36
OTHER LOW VOLTAGE (LV)	36	12	12	2	2	-	36
WET UTILITES (W)	36	36	36	36	36	36	-

TABLE ONLY APPLIES TO CONDUITS AFTER THE UTILITY POINT OF CONNECTION.

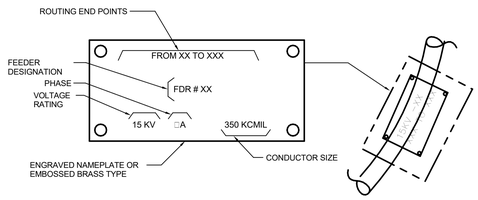
NOTES:

1. DETAIL FOR REFERENCE ONLY. REFER TO CIVIL DRAWING.
2. ALL TRENCHES MUST CONFORM TO O.S.H.A. REQUIREMENTS.
3. PROVIDE 12" SEPARATION WHEN CROSSING "WET" UTILITIES. IF SEPARATION CANNOT BE CONTAINED ENCASE IN CONCRETE.
4. UTILITY OWNED AND END-USER CONDUIT AND TRENCH SHALL NOT BE COMBINED.
5. CRUSHED GRAVEL MATERIAL REQUIRES 95% COMPACTION MINIMUM.
6. REFER TO STRUCTURAL DRAWINGS 4/S1.01

* OPTIONAL AREA - CAN BE FILLED WITH EITHER CRUSHED GRAVEL OR SAND BEDDING MATERIAL.

5 UTILITY CONDUITS 0-600V AND 601V-22KV TRENCHING

NO SCALE



NOTE:
1. INSTALL NAMEPLATE ABOVE CABLE OR VISIBLE FROM MANHOLE COVER

2. FEEDER COLOR BAND SCHEDULE

PHASE A - BLACK
PHASE B - RED
PHASE C - BLUE

6 12KV FEEDER NAMEPLATE

NO SCALE

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San Francisco, CA 94105
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rev	date	issue
2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

REGISTERED PROFESSIONAL ENGINEER
DUANE McCARTY
No. E23809
Exp: 03/31/26
ELECTRICAL
STATE OF CALIFORNIA

CHABOT M+O
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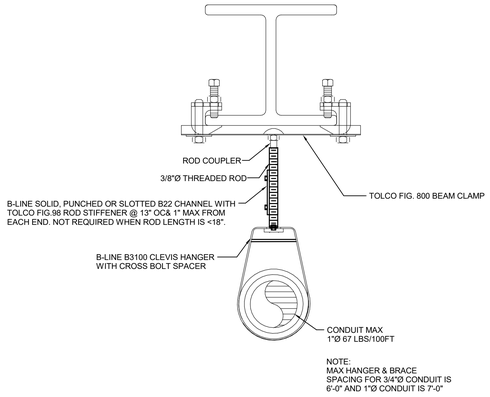
HAYWARD, CA 94545

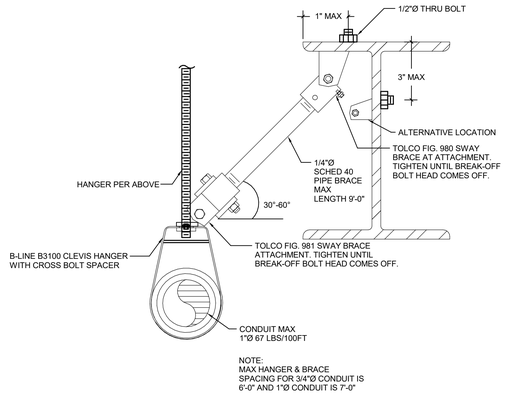
plot date:
project number: 20-296
date: 12/11/2024

DETAILS - ELECTRICAL

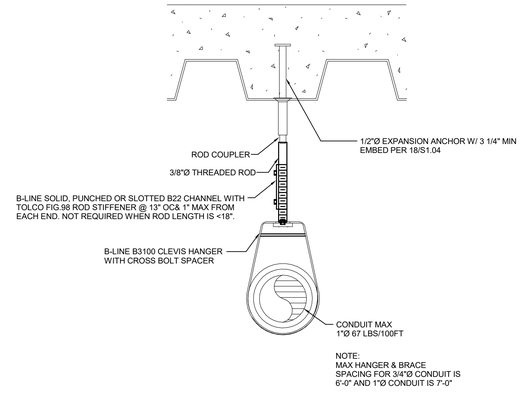
E7.04



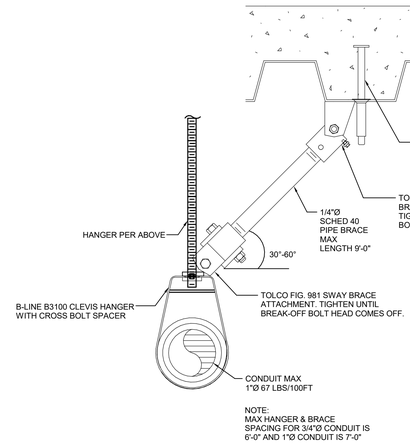
HANGER AT STEEL BEAM



BRACE AT STEEL BEAM



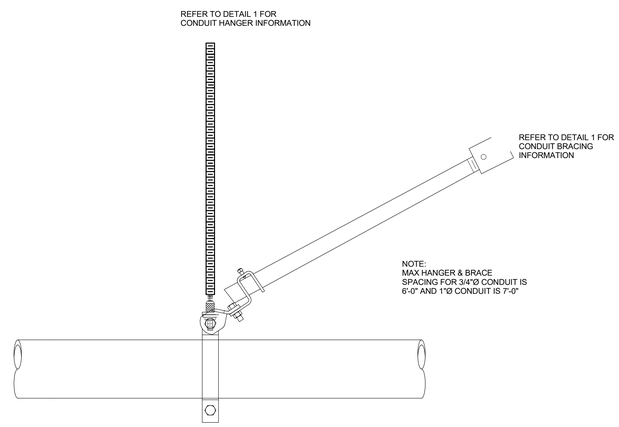
HANGER AT CONCRETE OVER METAL DECK



BRACE AT CONCRETE OVER METAL DECK

1 CONDUIT HANGER TRANSVERSE BRACING DETAIL

NO SCALE



2 CONDUIT HANGER LONGITUDINAL BRACING DETAIL

NO SCALE

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FIRE ALARM SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

(E)	EXISTING
(N)	NEW
(X)	DEMOLISH
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BLDG	BUILDING
C	CONDUIT
DCVA	DETECTOR CHECK VALVE ASSEMBLY
DN	DOWN
EA	EACH
FAA	FIRE ALARM ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL
FT	FOOT, FEET
HH	HANDHOLE
IN	INCH, INCHES
LED	LIGHT EMITTING DIODE
MISC	MISCELLANEOUS
N/A	NOT APPLICABLE
NAC	NOTIFICATION APPLINACE CIRCUIT
NTS	NOT TO SCALE
PIV	POST INDICATOR VALVE
QTY	QUANTITY
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
V	VOLTS, VOLTAGE
WP	WEATHERPROOF

Fire Alarm

- FACP — FIRE ALARM CONTROL PANEL, GAMEWELL-FCI E3, CSFM: 7165-1703:0125
- NAC — NOTIFICATION APPLIANCE CIRCUIT PANEL, HONEYWELL HPF24S6-8, CSFM: 7315-1637:0102
- LOC — FIRE ALARM ANNUNCIATOR PANEL WITH MICROPHONE, GAMEWLL-FCI E3 LOC, CSFM: 7165-1703:0125
- DOC — FIRE ALARM DOCUMENT CABINET, SPACE AGE SSU00691
- F — PULL STATION, GAMEWELL-FCI MS7-ASF, CSFM: 7150-1703:0170
- S — SMOKE DETECTOR, GAMEWELL-FCI ASD-PL3 W/BASE B300-6, CSFM: 7272-1703:0121, 7300-1653:0109
- S — SMOKE DETECTOR, DUCT MOUNTED, GAMEWELL-FCI DNRW, CSFM: 3242-1653:0209
- RT — REMOTE TEST SWITCH, GAMEWELL-FCI RTS151KEY, CSFM: 7300-1653:0212
- S — SPEAKER (# INDICATES MINIMUM CANDELA RATING, W = WATTAGE TAP), SYSTEM SENSOR SPCWL, CSFM: 7135-1653:0505
- SR — SPEAKER/STROBE COMBINATION (# INDICATES MINIMUM CANDELA RATING, W = WATTAGE TAP, C = CEILING MOUNT), SYSTEM SENSOR SPSCWL (CEILING), SPSWL (WALL), CSFM: 7135-1653:0503
- # — STROBE, WALL MOUNTED (# INDICATES MINIMUM CANDELA RATING), SYSTEM SENSOR SWL, CSFM: 7125-1653:0504
- # — STROBE, WALL MOUNTED (# INDICATES MINIMUM CANDELA RATING), SYSTEM SENSOR SCWL, CSFM: 7125-1653:0504
- AIM — ADDRESSABLE INPUT MODULE, GAMEWELL-FCI AMM-4F, CSFM: 7300-1703:0102
- AOM — ADDRESSABLE OUTPUT MODULE, GAMEWELL-FCI AOM-2RF, CSFM: 7300-1703:0102
- IM — ISOLATION MODULE, SYSTEM SENSOR M500X, CSFM: 7300-1653:0103
- PIV — SPRINKLER POST INDICATOR VALVE CONNECTION WITH INPUT MODULE
- WF — SPRINKLER FLOW SWITCH CONNECTION INPUT MODULE
- VS — SPRINKLER TAMPER SWITCH CONNECTION INPUT MODULE
- PS — SPRINKLER PRESSURE SWITCH CONNECTION INPUT MODULE
- (E) FAC — EXISTING FIRE ALARM COMMUNICATOR

General

- X/X — DETAIL NUMBER AND SHEET LOCATION
- X — KEYED NOTE
- X — EQUIPMENT TAG

Raceways

- CONDUIT
- CONDUIT ROUTED BELOW FLOOR / GRADE

SHEET INDEX

FA0.01	SYMBOL LIST AND GENERAL NOTES - FIRE ALARM
FA1.00	OVERALL SITE PLAN - FIRE ALARM
FA1.01	SITE PLAN - FIRE ALARM
FA2.01	GROUND FLOOR PLAN - FIRE ALARM
FA2.02	SECOND FLOOR PLAN - FIRE ALARM
FA5.01	ONE-LINE DIAGRAM AND DETAILS - FIRE ALARM

GENERAL FIRE ALARM NOTES

A. THE SCOPE OF THIS PROJECT IS TO PROVIDE A NEW ADDRESSABLE, CLASS B, MANUAL/AUTOMATIC FIRE ALARM SYSTEM WITH INTEGRATED EMERGENCY VOICE ALARM COMMUNICATION SYSTEM (EVACS) THROUGHOUT THE BUILDING.

B. AUTOMATIC SMOKE DETECTORS ARE PROVIDED FOR LIFE SAFETY FUNCTIONS, IN CORRIDORS AND SPACES OPEN TO CORRIDORS, MECHANICAL, ELECTRICAL, AND TELECOM ROOMS, AND AT AIR HANDLING UNITS OVER 2000 CFM CAPACITY.

C. MONITOR MODULES ARE PROVIDED AT THE FIRE SPRINKLER RISER.

D. AUDIBLE AND VISIBLE NOTIFICATION APPLIANCES ARE LOCATED THROUGHOUT THE BUILDING.

E. MANUAL PULL STATIONS PROVIDED AT BUILDING EXITS.

F. BUILDING IS CONNECTED TO CAMPUS SITE FIRE ALARM SYSTEM VIA FACP IN BUILDING 2400 WITH SINGLE-MODE FIBER CONNECTION.

FIRE ALARM ADDRESS LEGEND

NAXX-##,
- DEVICE ADDRESS

WHERE: XX = LOOP NUMBER
- DEVICE ADDRESS

FIRE ALARM MONITORING NOTE

FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72. THE SUPERVISING STATIONS SHALL BE LISTED AS EITHER UUFX (CENTRAL STATIONS) OR UUJS (REMOTE AND PROPRIETARY) BY UNDERWRITERS LABORATORY (UL) OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL (FM) RESEARCH APPROVAL STANDARD 3011.
SYSTEM UTILIZES EXISTING OFF-SITE COMMUNICATOR THROUGH NETWORK CONNECTION TO EXISTING CAMPUS NETWORK. COMMUNICATOR LOCATED IN BUILDING 2900.

FIRE ALARM WIRE SCHEDULE

SYMBOL	DESCRIPTION
A	1 PAIR 16 AWG, TWISTED (SLC)
Au	1 PAIR 16 AWG, TWISTED, SUITABLE FOR WET LOCATION (SLC)
B	1 PAIR 14 AWG (NAC)
C	1 PAIR 14 AWG, 1 PAIR 16 AWG (LOC)
D	2 PAIR 14 AWG (NAC TRIP)
E	1 PAIR SINGLE-MODE FIBER FOR WET LOCATION (NETWORK)
R	2 PAIR 18 AWG (REMOTE)
S	1 PAIR 16 AWG, TWISTED, SHIELDED (AUDIO)

NOTE: LETTER DESIGNATION INDICATES CABLE TYPE. NUMBER BEFORE LETTER INDICATES QUANTITY OF CABLES. E.G., 2A, INDICATES TWO, #16 CABLES.

EQUIPMENT ANCHORAGE

ANCHORAGE AND SUPPORTS OF ALL EQUIPMENT TO BE INSTALLED, AS PART OF THIS PROJECT SHALL BE DETAILED ON CONSTRUCTION DOCUMENTS, EXCEPT THOSE EXEMPT BY 2022 CBC SECTION 1616A.1.18.

EQUIPMENT SUPPORTS AND ANCHORAGE SHALL BE APPROVED BY THE APPROPRIATE DESIGN PROFESSIONALS OF RECORD AND OSHPD AS PART OF FIELD REVIEWS/ OBSERVATIONS. THE INSPECTOR OF RECORD (IOR) SHALL ASSURE THAT THE ABOVE REQUIREMENTS ARE ENFORCED.

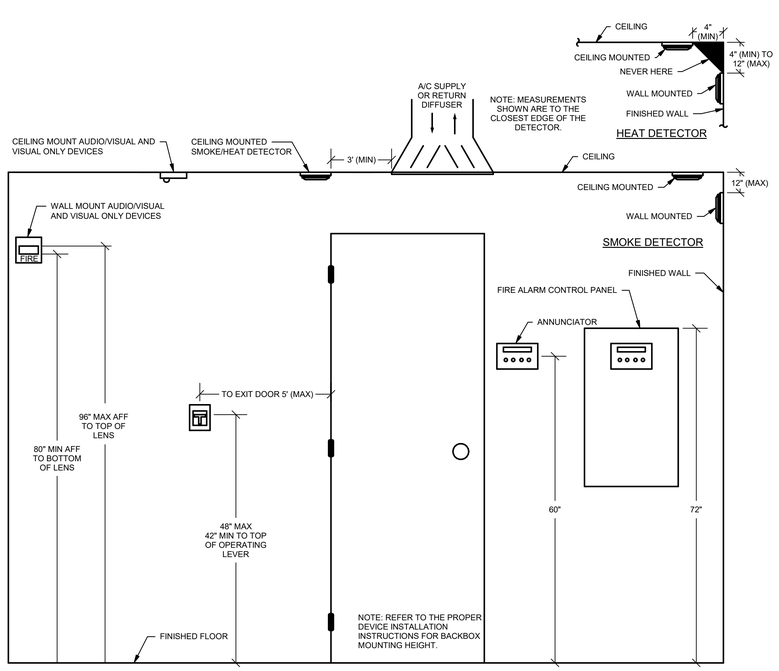
SEE SEPARATE SEISMIC CERTIFICATION PRE-APPROVAL PROVIDED IN DATA-CSFM PACKET.

DSA NOTES

1. APPLICABLE STANDARDS AND CODES:
   2022 NFPA 72
   2022 CALIFORNIA FIRE CODE
   2022 CALIFORNIA BUILDING CODE
   2022 CALIFORNIA MECHANICAL CODE
   2022 CALIFORNIA ELECTRICAL CODE
2. INSTALLATION OF THE SYSTEM SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATIONS, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY DSA.
3. UPON COMPLETION OF THE INSTALLATION OF THE SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR.
4. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE MAINTAINED ON THE JOB SITE AND USED FOR INSTALLATION.
5. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT/ENGINEER OF THE PROJECT.
6. DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND /OR TESTING.
7. ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, UL OR OTHER LAB TESTING CRITERIA. APPROVED TYPE OF MATERIALS SHALL BE IDENTIFIED WITHIN THE SPECIFICATION WITHIN THE FIRE ALARM SECTION.
8. WALL MOUNTED VISUAL NOTIFICATION APPLIANCES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM ABOVE FINISHED FLOOR.
9. WALL MOUNTED AUDIBLE NOTIFICATION APPLIANCES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 100" MAXIMUM ABOVE FINISHED FLOOR AND NO CLOSER THAN 6" TO A HORIZONTAL STRUCTURE.
10. AUDIBLE DEVICES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 DECIBELS (dBA) ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR 5 dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, IN EVERY OCCUPIABLE SPACE WITHIN THE BUILDING.
11. AUDIBLE APPLIANCES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN.
12. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
13. VISUAL APPLIANCES SHOULD NOT EXCEED 2 FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN 1 FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELA. VISUAL APPLIANCES WITHIN 55' FROM EACH OTHER SHALL BE SYNCHRONIZED.
14. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATERTIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATIONS.
15. ALL FIRE ALARM WIRING SHALL BE FLP OR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE THHN OR THWN.
16. PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE THE WIRE. THERE MUST BE AT LEAST 6" OF LEAD WIRE FROM THE BOX TO THE DEVICE. ALL BOXES TO BE SIZED PER CEC.
17. SMOKE DETECTORS SHALL NOT BE INSTALLED CLOSER THAN 1' FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION, NEWLY INSTALLED FIRE ALARM DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.
18. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY OR OPEN RUN ABOVE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANNER AS INDICATED ON DESIGN DOCUMENTS. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.
19. FIRE ALARM PANEL, REMOTE PANELS, POWER SUPPLIES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURER'S SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED THE WEIGHT OF 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
20. A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL". CIRCUIT ID TO BE LABELED AT FIRE PANEL/EXTENDERS.
21. THE INSTALLING CONTRACTOR SHALL PROVIDE A RECORD OF COMPLETION PER NFPA 72, FIGURE 10.18.2.1.1.
22. CONTROL PANELS AND REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48" ABOVE FINISHED FLOOR.
23. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.2.
24. SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST.
25. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.

BUILDING FIRE ALARM SYSTEM OPERATIONAL MATRIX

INPUT		OUTPUT: ALARM AT FACP (A)	ALARM AT ANNUNCIATOR (B)	ALARM AT SUPERVISING STATION (C)	ACTIVATE NOTIFICATION APPLIANCES (D)	SUPERVISORY AT FACP (E)	SUPERVISORY AT ANNUNCIATOR (F)	SUPERVISORY AT SUPERVISING STATION (G)	TROUBLE AT FACP (H)	TROUBLE AT ANNUNCIATOR (I)	TROUBLE AT SUPERVISING STATION (J)	DEACTIVATE NOTIFICATION APPLIANCES (K)	RESET CONTROL PANEL AND ALL DEVICES (L)	SHUT DOWN HVAC FAN UNITS (M)	CLOSE FIRE/SMOKE DAMPERS (N)	ACTIVATE ELEVATOR PRIMARY RECALL (O)	ACTIVATE ELEVATOR ALTERNATE RECALL (P)	ACTIVATE FIREMAN'S HAT LIGHT (Q)	ACTIVATE ELEVATOR SHUNT TRIP (R)	
MANUAL PULL STATION	1	X	X	X	X															1
AREA SMOKE DETECTOR	2	X	X	X	X										X					2
ELEVATOR LOBBY SMOKE DETECTOR - FIRST FLOOR	3	X	X	X	X											X		X		3
ELEVATOR LOBBY SMOKE DETECTOR - 2ND FLOOR	4	X	X	X	X												X	X		4
ELEVATOR MACHINE ROOM HEAT DETECTOR	5	X	X	X	X													X	X	5
ELEVATOR SHAFT FLOW SWITCH	6	X	X	X	X											X		X		6
ELEVATOR PIT FLOW SWITCH	7	X	X	X	X												X	X		7
HEAT DETECTOR	8	X	X	X	X															8
SPARK DETECTION-DUST COLLECTION SYSTEM	9	X	X	X	X															9
FIRE SPRINKLER FLOW ALARM	10	X	X	X	X															10
DUCT MOUNTED SMOKE DETECTOR	11					X	X	X						X	X					11
FIRE SPRINKLER TAMPER ALARM	12					X	X	X												12
POWER FAILURE	13								X	X	X									13
TROUBLE CONDITION	14								X	X	X									14
SYSTEM SILENCE	15											X								15
SYSTEM RESET	16												X							16
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	

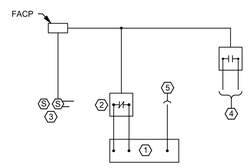


1 DEVICE MOUNTING HEIGHTS

NO SCALE

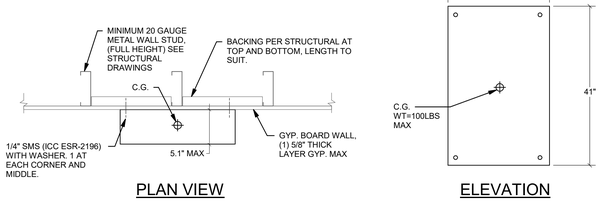
DETAIL KEYNOTES

1. AIR HANDLING UNIT (AHU) STARTER/VFD.
2. FIRE ALARM ADDRESSABLE OUTPUT MODULE. CONNECT TO EMERGENCY STOP INPUT ON FAN CONTROLLER. PROGRAM TO STOP FAN ON ACTIVATION OF ASSOCIATED SMOKE DETECTION. PROVIDE RELAY FOR EACH FAN CONTROLLER.
3. FIRE ALARM ADDRESSABLE DUCT SMOKE DETECTOR OR AREA DETECTOR.
4. FIRE ALARM ADDRESSABLE OUTPUT MODULE. DIGITAL INPUT TO BAS TO INITIATE ADDITIONAL AHU SHUT DOWN SEQUENCE.
5. BAS CONNECTION TO FAN UNIT CONTROLLER.



2 HVAC FAN SHUT DOWN DIAGRAM

NO SCALE

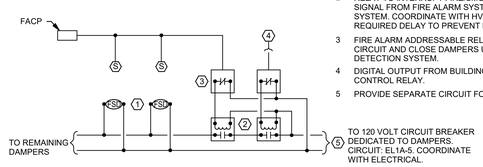


3 FIRE PANEL ANCHORAGE DETAIL

NO SCALE

DETAIL KEYNOTES

1. FIRE/SMOKE DAMPER OR SMOKE DAMPER ASSEMBLY.
2. RELAY TO INTERRUPT FIRE/SMOKE DAMPER CIRCUIT UPON SIGNAL FROM FIRE ALARM SYSTEM OR BUILDING AUTOMATION SYSTEM. COORDINATE WITH HVAC CONTROLS FOR ANY REQUIRED DELAY TO PREVENT DAMAGE TO DUCTWORK.
3. FIRE ALARM ADDRESSABLE RELAY. PROGRAM TO OPEN CIRCUIT AND CLOSE DAMPERS UPON ACTIVATION OF SMOKE DETECTION SYSTEM.
4. DIGITAL OUTPUT FROM BUILDING AUTOMATION SYSTEM TO CONTROL RELAY.
5. PROVIDE SEPARATE CIRCUIT FOR EACH AIR HANDLING UNIT.



4 FIRE/SMOKE DAMPER CONTROL DIAGRAM

NO SCALE

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2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

REGISTERED PROFESSIONAL ENGINEER SHANE McCARTHY No. E23849 EXP. 08/31/26 ELECTRICAL STATE OF CALIFORNIA

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project number: 20-296
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SYMBOL LIST AND GENERAL NOTES - FIRE ALARM

FA0.01

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AREA OF WORK. SEE FA1.01 FOR NEW WORK.

DEPOT ROAD

HESPERIAN BOULEVARD

SWIMMING POOL

BUILDING #100 APPL# 24326
BUILDING #200 APPL# 25315
BUILDING #300 APPL# 24326
BUILDING #400 APPL# 24326
BUILDING #500 APPL# 24326
BUILDING #600 APPL# 24326
BUILDING #700 APPL# 24326
BUILDING #800 APPL# 24326
BUILDING #900 APPL#24326
BUILDING #1000 APPL#24326
BUILDING #1100 APPL# 24326
BUILDING #1200 APPL# 24326
BUILDING #1300 APPL# 26723
BUILDING #1400 APPL# 24326
BUILDING #1500 APPL# 24326
BUILDING #1600 APPL# 24326
BUILDING #1700 APPL# 24326
BUILDING #1800 APPL# 24326
BUILDING #1900 APPL# 24326
BUILDING #2000 APPL# 24326
BUILDING #2100 APPL#24326 01-103426
BUILDING #2200 APPL# 24326
BUILDING #2300 APPL# 24326
BUILDING #2400 APPL# 24326
BUILDING #2500 APPL# 24326
BUILDING #2600 APPL# 24326
BUILDING #2700 APPL# 24326
BUILDING #2800 APPL# 24326
BUILDING #2900 APPL# 25949
BUILDING #3100 APPL# 60233
BUILDING #3400 APPL# 60235
BUILDING #3500 APPL# 58261
BUILDING #3600 APPL# 74803
BUILDING #3700 01-103917
BUILDING #3800 APPL# 64531
ADDITION APPL# 60436

(E) ANN
(E) FACP 1
(E) FATC 1
(E) FACP 2
(E) FATC 2
(E) FACP 3
(E) FATC 3
(E) FACP 4
(E) FATC 4
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(E) FATC 36
(E) FACP 37
(E) RPS 37 TO REMAIN
(E) FACP 38
(E) FACP 39A
(E) FATC 39
(E)FACP & DEVICES TO REMAIN
(E) FACP 14
(E) FATC 14

PB-1 PB-2 PB-3 PB-4 PB-5 PB-6 PB-7 PB-8 PB-9 PB-10 PB-11 PB-12 PB-13 PB-14 PB-15 PB-16 PB-17 PB-18 PB-19 PB-20

(E)1A,3C,2H (E)4A,7C,2H (E)6A,9C,2H (E)1A,3C (E)1A,1C,2H (E)1A,1C (E)3A,4C (E)1A,2C (E)1A,1C (E)4H (E)3H (E)2H (E)1H (E)8A,3B (E)8A,3B,1H

1 OVERALL SITE PLAN - FIRE ALARM

0' 4' 8' 16'
1" = 60'-0"

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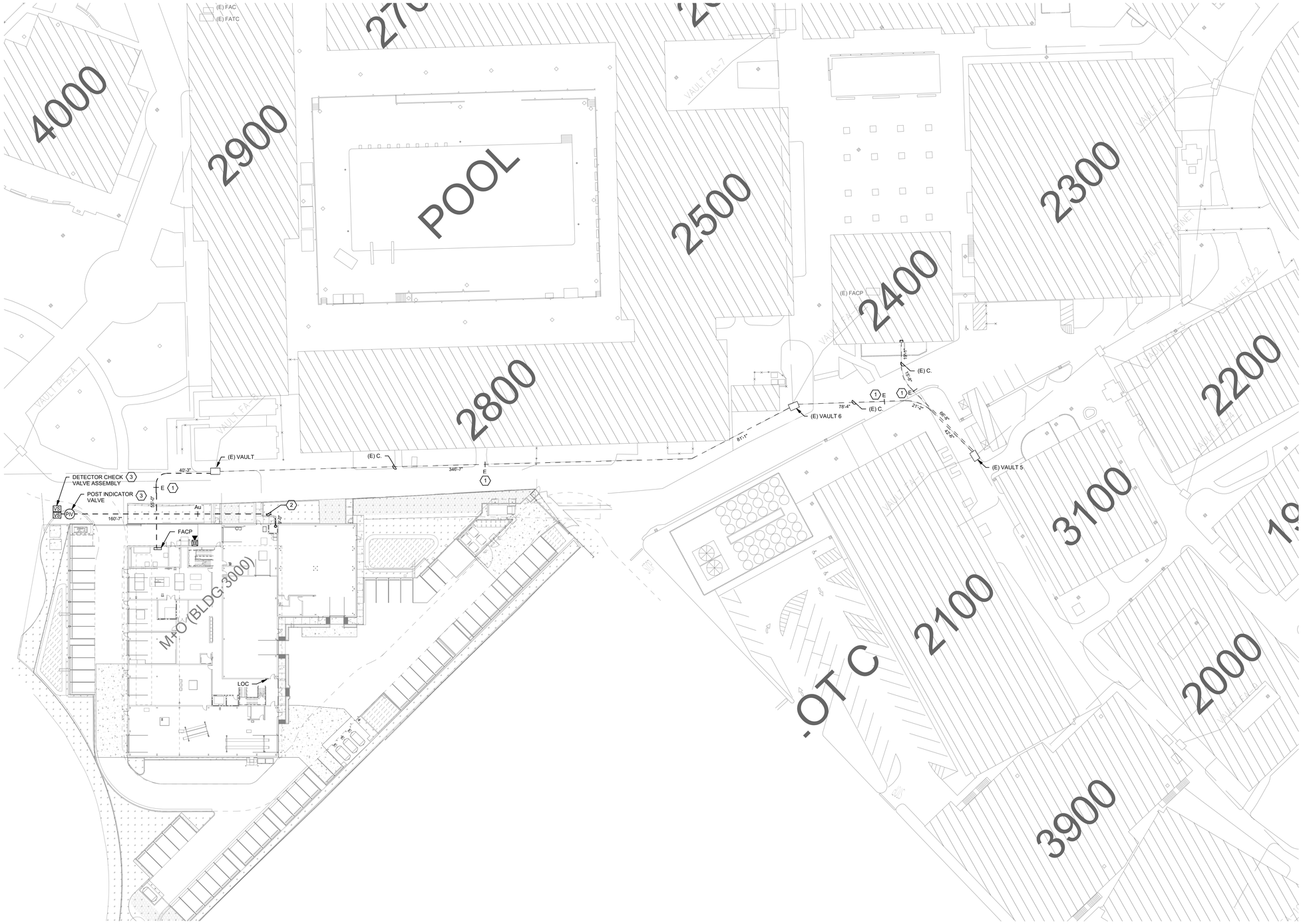
project number: 20-296
date: 12/11/2024

OVERALL SITE PLAN - FIRE ALARM

FA1.00

SHEET KEYNOTES

1. PULL NEW 'E' FIBER CABLE FROM BUILDING 2400 CONTROL PANEL TO NEW FACP.
2. PROVIDE 1" UNDERGROUND CONDUIT AND CALBING TO PIV AND DCVA FOR MONITORING. UTILIZE SAME TRENCH AS FIRE SPRINKLER MAIN.
3. INSTALL MODULES INSIDE BUILDING. SEE FA2.01.



1 SITE PLAN - FIRE ALARM

0' 30' 60'

1" = 30'-0"

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SITE PLAN - FIRE ALARM

FA1.01

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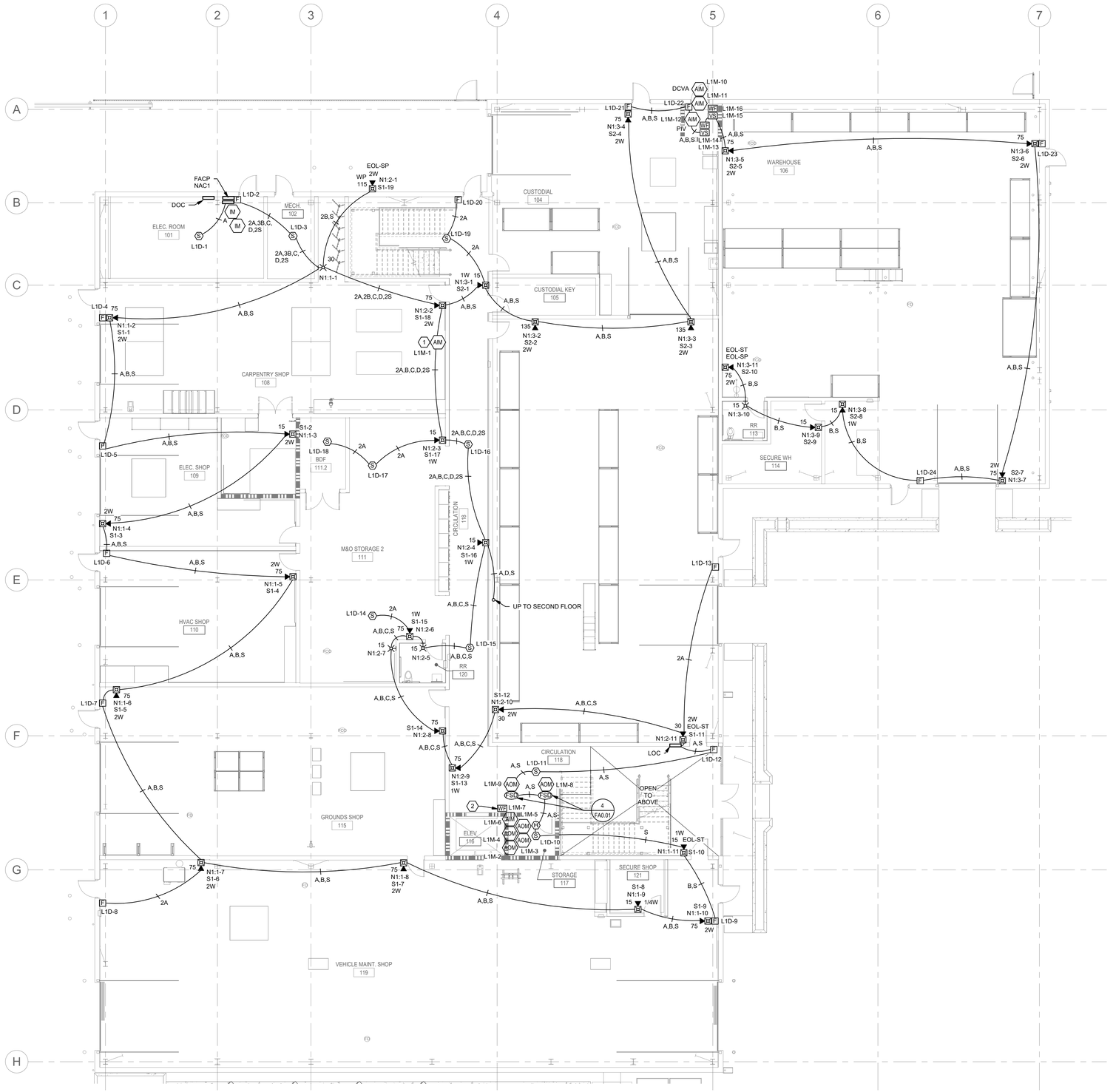
SHEET KEYNOTES

1. PROVIDE ADDRESSABLE INPUT MODULE TO MONITOR THE DUST COLLECTION SPARK DETECTION CONTROL PANEL. FIRE ALARM SYSTEM TO ALARM ON DETECTION OF SPARK BY DUST COLLECTION SYSTEM.
2. PROVIDE ADDRESSABLE INPUT MODULE TO MONITOR SPRINKLER FLOW SWITCH FOR ELEVATOR PIT SPRINKLER. FLOW SWITCH TO BE ZERO DELAY AND TO ACTIVATE ELEVATOR RECALL UPON ACTIVATION PER NFPA 72, SECTION 21.3.3.2.



1 GROUND FLOOR PLAN - FIRE ALARM

0' 4' 8' 16'

1/8" = 1'-0"

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rev	date	issue
2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

REGISTERED PROFESSIONAL ENGINEER
SHANE McCARTHY
No. E23849
EXP 12/31/26
ELECTRICAL
STATE OF CALIFORNIA

CHABOT M+O
25555 HESPERIAN BLVD,
HAYWARD, CA 94545

plot date:
project number: 20-296
date: 12/11/2024

GROUND FLOOR PLAN - FIRE ALARM

FA2.01

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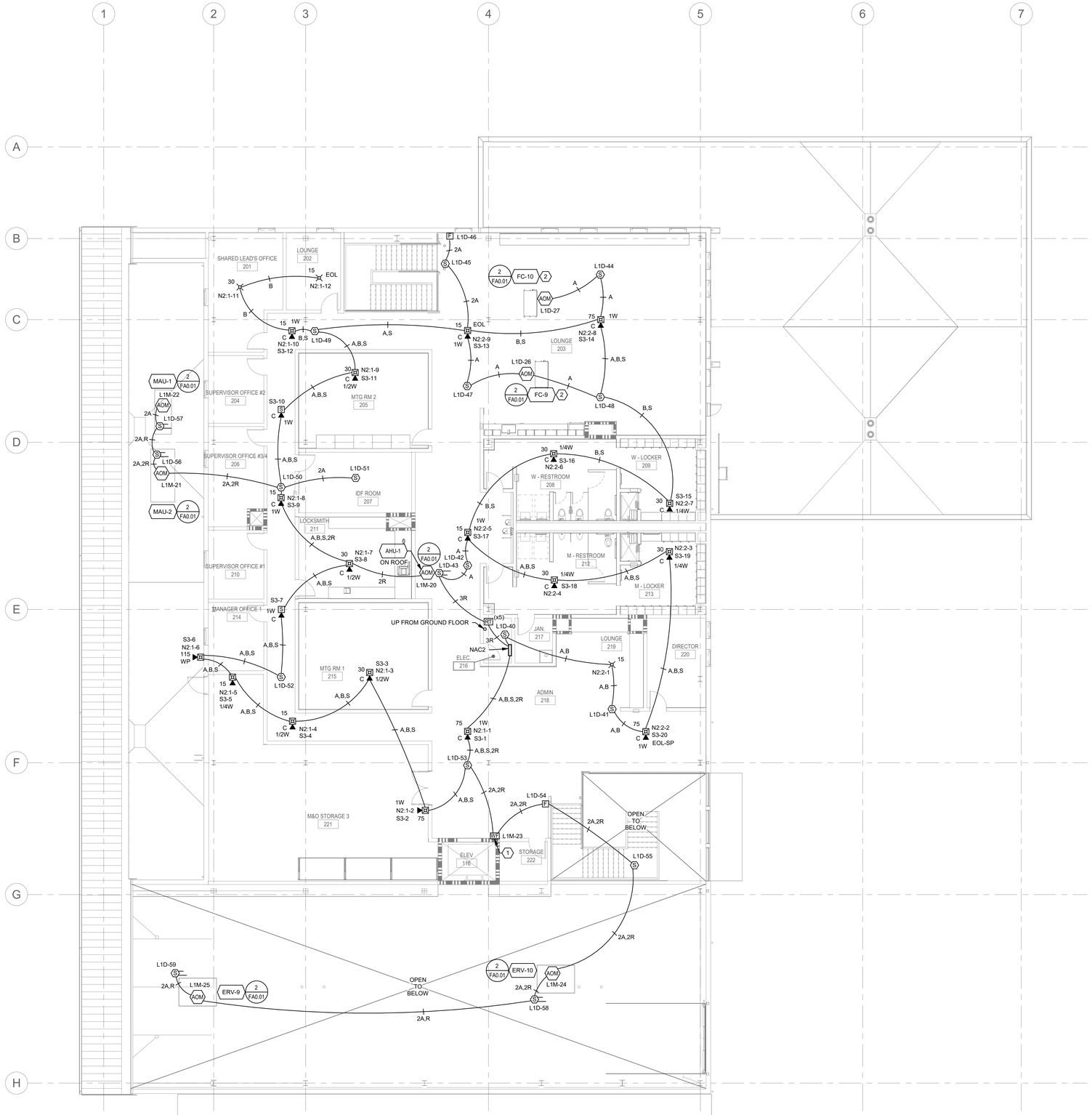
SHEET KEYNOTES

1. PROVIDE ADDRESSABLE INPUT MODULE TO MONITOR SPRINKLER FLOW SWITCH FOR ELEVATOR SHAFT SPRINKLER. FLOW SWITCH TO BE ZERO DELAY AND TO ACTIVATE ELEVATOR RECALL UPON ACTIVATION PER NFPA 72, SECTION 21.3.3.2.
2. UTILIZE AREA DETECTION IN THIS SPACE FOR SHUT DOWN OF AIR HANDLER UNITS.



1 SECOND FLOOR FIRE ALARM PLAN - OVERALL

0' 4' 8' 16'

1/8" = 1'-0"

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	2022.02.28	SCHEMATIC DESIGN

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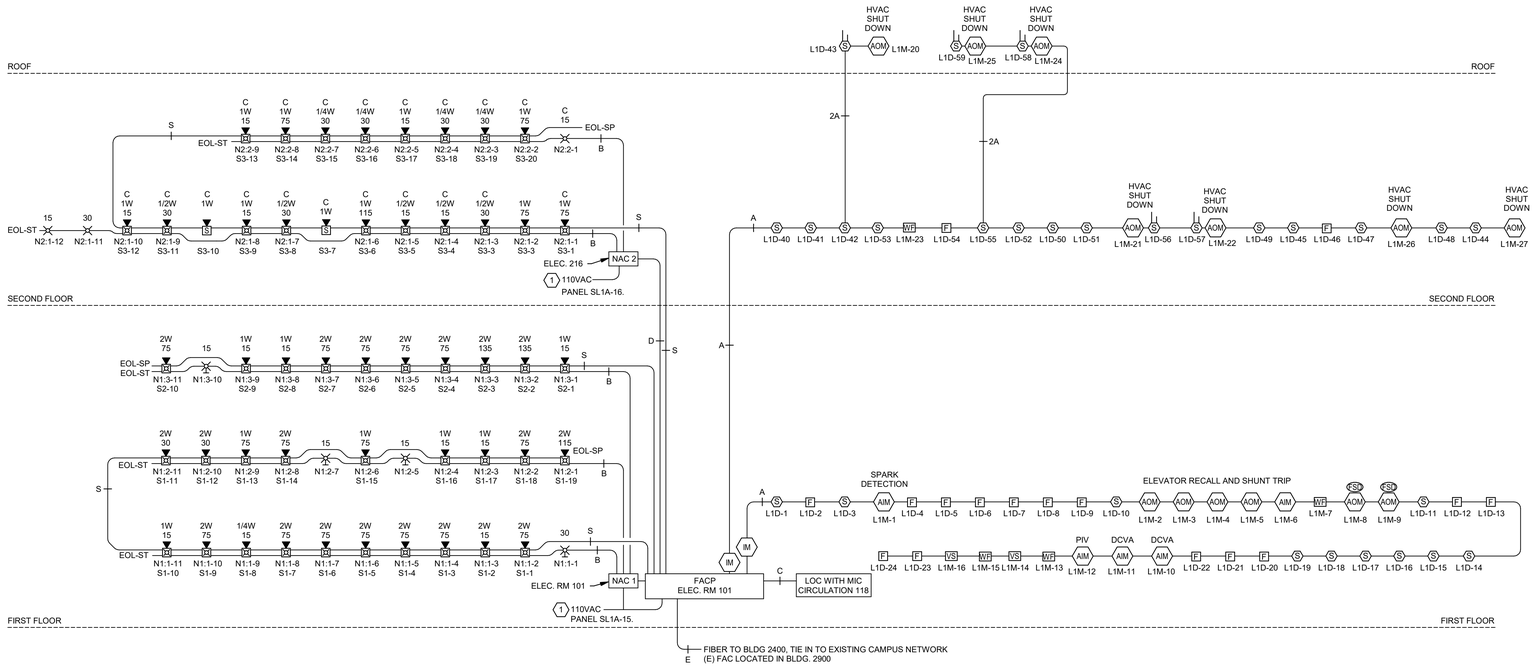
plot date:
project number: 20-296
date: 12/11/2024

SECOND FLOOR PLAN - FIRE ALARM

FA2.02



1 ONE-LINE DIAGRAM - FIRE ALARM

NO SCALE

GENERAL SHEET NOTES

A. RISER IS DIAGRAMMATICAL AND ONLY SHOWS TYPICAL LAYOUT OF APPLIANCES, DEVICES AND EQUIPMENT. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF THE SYSTEM IN ACCORDANCE WITH THE SPECIFICATIONS AND ADOPTED CODES AND STANDARDS.

SHEET KEYNOTES

1. 120VAC PRIMARY POWER SOURCE SHALL BE A MECHANICALLY PROTECTED BRANCH CIRCUIT. THE CIRCUIT DISCONNECTING MEANS SHALL HAVE A RED MARKING, AND IDENTIFIED AS "FIRE ALARM CIRCUIT".

System Current Draw

E3 Series Control Panel with Broadband

		Total Standby		0.716 A		Total Alarm		7.869 A
		Standby Current				Alarm Current		
Device	Qty		Draw	Standby	Qty		Draw	Alarm
1. System Device								
Intel. Loop Interface, Main Board (ILI-MB-E3)	1	x	0.08100	0.08100	1	x	0.15000	0.15000
2. E3 Optional Modules								
120V Power Supply Sub-Assembly (PM-9)	1	x	0.05000	0.05000	1	x	0.05000	0.05000
LCD Display & Switch Control (LCD-E3)	1	x	0.02400	0.02400	1	x	0.02800	0.02800
Single-Mode Fiber-Optic Module (FSL-E3)	1	x	0.01300	0.01300	1	x	0.01300	0.01300
Auxiliary Switch Sub-Assembly (ASM-16)	2	x	0.01100	0.02200	2	x	0.01100	0.02200
3. 7100 Optional Modules								
4. INI-VGC Command Center								
5. INI-VGX Voice Gateway								
Intel. Network Voice Gateway (INI-VGX)	1	x	0.15000	0.15000	1	x	0.15000	0.15000
120V Power Supply Sub-Assembly (PM-9)	1	x	0.05000	0.05000	1	x	0.05000	0.05000
Amplifier Sub-assembly, 50 watt 70V (AM-50-70)	3	x	0.04900	0.14700	3	x	2.30000	6.90000
6. INI-VGE Command Center Voice Gateway								
Intel. Network Command Voice Gateway (INI-VGE)	1	x	0.15000	0.15000	1	x	0.15000	0.15000
Voice Paging Microphone (Microphone)	1	x	0.00100	0.00100	1	x	0.00100	0.00100
7. Smoke Detectors/Modules								
Smoke Detector	23	x	0.00020	0.00460	23	x	0.00450	0.10350
Heat Detector	0	x	0.00020		0	x	0.00450	
Addressable Output Module	13	x	0.00038	0.00488	13	x	0.00650	0.08450
Manual Pull Station	16	x	0.00030	0.00480	16	x	0.00700	0.11200
Duct Smoke Detector	1	x	0.00020	0.00020	1	x	0.00450	0.00450
Addressable Input Module	8	x	0.00038	0.00304	8	x	0.00500	0.04000
Isolator Module	2	x	0.00500	0.01000	2	x	0.00500	0.01000
8. Notification Appliances								
			Total Standby Load:	**0.716 A**			**Total Alarm Load:**	**7.869 A**

System Power Requirements

E3 Fire Alarm Control Panel with Broadband

Secondary Load Requirements **22.97** Amp Hours

Total Secondary Load from the calculation table below.

Current Draw		Time (hours)	Total (AH)
Secondary Standby Load	x	Required Standby Time	
0.716 A		24 hours	17.17
Secondary Alarm Load	x	Required Alarm Time (hours)	
7.869 A		0.250 hours	1.97
		Total Secondary Load	19.14
		Derating factor	x 1.20
		Secondary Load Requirements	**22.97 AH**

Battery Selection (2 x 12vDC) **31.00** Amp Hours

Select batteries from the list below.

31 AH Battery (12 volt)

NAC 1 - GAMEWELL-FCI HPF24S8

DEVICE	QUANTITY	STANDBY	ALARM
GPF24S8 CONTROL	1	0.091	0.145
NOTIFICATION APPLIANCE CIRCUIT			
N1:1	1		0.963
N1:2	1		0.892
N1:3	1		1.063
SPARE			0.000
TOTAL AMPERAGE (A)		0.091	3.063
STANDBY HOURS (h)		24.000	
STANDBY AMP HOURS (Ah)		2.184	
ALARM OPERATION (h)			0.250
ALARM AMP HOURS (Ah)			0.766
TOTAL AMP HOURS (Ah)			2.950
BATTERY DERATING FACTOR			1.200
BATTERY AMP HOUR RATING (Ah)			4.150
BATTERY PROVIDED (Ah)			7.000

NAC 2 - GAMEWELL-FCI HPF24S8

DEVICE	QUANTITY	STANDBY	ALARM
GPF24S8 CONTROL	1	0.091	0.145
NOTIFICATION APPLIANCE CIRCUIT			
N2:1	1		0.837
N2:2	1		0.597
SPARE			0.000
SPARE			0.000
TOTAL AMPERAGE (A)		0.091	1.579
STANDBY HOURS (h)		24.000	
STANDBY AMP HOURS (Ah)		2.184	
ALARM OPERATION (h)			0.250
ALARM AMP HOURS (Ah)			0.395
TOTAL AMP HOURS (Ah)			2.579
BATTERY DERATING FACTOR			1.200
BATTERY AMP HOUR RATING (Ah)			3.779
BATTERY PROVIDED (Ah)			7.000

NOTIFICATION CIRCUIT - N1:1
VOLTAGE DROP CALCULATIONS

POINT-TO-POINT OHM'S CALCULATIONS. ACCEPTABLE LIMIT: 10% x 20.4V = 2.04 (MAX)

OHMS = (#14 FEET* 3.07/1000 +#12 FEET* 1.93/1000 + #10 FEET* 1.21/1000) * 2

1) A/V 15cd	0.041	2) A/V 30cd	0.063	3) A/V 75cd		0.111
4) A/V 115cd	0.158	5) V/O 15cd	0.041	6) V/O 30cd		0.063

DEVICE TYPE #	DEVICE #	TO DEVICE #	LINEAR FEET BETWEEN DEVICES #14	LINEAR FEET BETWEEN DEVICES #12	RESISTANCE OF WIRES (OHMS)	LOAD ON RUN (AMPS)	VOLTAGE DROP (VOLTS)	ACCUM. VOLTAGE DROP (V)
1	11	10	30		0.184	0.041	0.008	0.008
3	10	9	25		0.154	0.152	0.023	0.031
1	9	8	60		0.368	0.193	0.071	0.102
3	8	7	45		0.276	0.304	0.084	0.186
3	7	6	55		0.338	0.415	0.140	0.326
3	6	5	60		0.368	0.526	0.194	0.520
3	5	4	55		0.338	0.637	0.215	0.735
3	4	3	45		0.276	0.748	0.207	0.942
1	3	2	70		0.430	0.789	0.339	1.281
3	2	1	50		0.307	0.900	0.276	1.557
6	1	NAC 1	50		0.307	0.963	0.296	1.853

Percent Loss **9.08%**

NOTIFICATION CIRCUIT - N1:2
VOLTAGE DROP CALCULATIONS

POINT-TO-POINT OHM'S CALCULATIONS. ACCEPTABLE LIMIT: 10% x 20.4V = 2.04 (MAX)

OHMS = (#14 FEET* 3.07/1000 +#12 FEET* 1.93/1000 + #10 FEET* 1.21/1000) * 2

1) A/V 15cd	0.041	2) A/V 30cd	0.063	3) A/V 75cd		0.111
4) A/V 115cd	0.158	5) V/O 15cd	0.041	6) A/V WP 75cd		0.158

DEVICE TYPE #	DEVICE #	TO DEVICE #	LINEAR FEET BETWEEN DEVICES #14	LINEAR FEET BETWEEN DEVICES #12	RESISTANCE OF WIRES (OHMS)	LOAD ON RUN (AMPS)	VOLTAGE DROP (VOLTS)	ACCUM. VOLTAGE DROP (V)
2	11	10	50		0.307	0.063	0.019	0.019
2	10	9	25		0.154	0.126	0.019	0.039
3	9	8	15		0.092	0.237	0.022	0.061
3	8	7	35		0.215	0.348	0.075	0.135
5	7	6	10		0.061	0.389	0.024	0.159
3	6	5	10		0.061	0.500	0.031	0.190
5	5	4	40		0.246	0.541	0.133	0.323
1	4	3	40		0.246	0.582	0.143	0.466
1	3	2	35		0.215	0.623	0.134	0.600
3	2	1	55		0.338	0.734	0.248	0.847
4	1	NAC 1	55		0.338	0.892	0.301	1.149

Percent Loss **5.63%**

NOTIFICATION CIRCUIT - N1:3
VOLTAGE DROP CALCULATIONS

POINT-TO-POINT OHM'S CALCULATIONS. ACCEPTABLE LIMIT: 10% x 20.4V = 2.04 (MAX)

OHMS = (#14 FEET* 3.07/1000 +#12 FEET* 1.93/1000 + #10 FEET* 1.21/1000) * 2

1) A/V 15cd	0.041	2) A/V 30cd	0.063	3) A/V 75cd		0.111
4) A/V 135cd	0.172	5) V/O 15cd	0.041	6) A/V WP 75cd		0.158

DEVICE TYPE #	DEVICE #	TO DEVICE #	LINEAR FEET BETWEEN DEVICES #14	LINEAR FEET BETWEEN DEVICES #12	RESISTANCE OF WIRES (OHMS)	LOAD ON RUN (AMPS)	VOLTAGE DROP (VOLTS)	ACCUM. VOLTAGE DROP (V)
3	11	10	25		0.154	0.111	0.017	0.017
5	10	9	30		0.184	0.152	0.028	0.045
1	9	8	20		0.123	0.193	0.024	0.069
1	8	7	55		0.338	0.234	0.079	0.148
3	7	6	80		0.491	0.345	0.169	0.317
3	6	5	85		0.522	0.456	0.238	0.555
3	5	4	40		0.246	0.567	0.139	0.694
3	4	3	75		0.461	0.678	0.312	1.007
4	3	2	40		0.246	0.850	0.209	1.215
4	2	1	25		0.154	1.022	0.157	1.372
1	1	NAC 1	90		0.553	1.063	0.587	1.960

Percent Loss **9.61%**

NOTIFICATION CIRCUIT - N2:1
VOLTAGE DROP CALCULATIONS

POINT-TO-POINT OHM'S CALCULATIONS. ACCEPTABLE LIMIT: 10% x 20.4V = 2.04 (MAX)

OHMS = (#14 FEET* 3.07/1000 +#12 FEET* 1.93/1000 + #10 FEET* 1.21/1000) * 2

1) A/V 15cd	0.041	2) A/V 30cd	0.063	3) A/V 75cd		0.111
4) A/V 115cd	0.158	5) V/O 15cd	0.041	6) V/O 30cd		0.063

DEVICE TYPE #	DEVICE #	TO DEVICE #	LINEAR FEET BETWEEN DEVICES #14	LINEAR FEET BETWEEN DEVICES #12	RESISTANCE OF WIRES (OHMS)	LOAD ON RUN (AMPS)	VOLTAGE DROP (VOLTS)	ACCUM. VOLTAGE DROP (V)
5	9	8	25		0.154	0.041	0.006	0.006
6	11	10	30		0.184	0.104	0.019	0.025
1	10	9	30		0.184	0.145	0.027	0.052
2	9	8	50		0.307	0.208	0.064	0.116
1	8	7	35		0.215	0.249	0.054	0.170
2	7	6	55		0.338	0.312	0.105	0.275
4	6	5	20		0.123	0.470	0.058	0.333
1	5	4	25		0.154	0.511	0.078	0.411
1	4	3	35		0.215	0.552	0.119	0.530
2	3	2	50		0.307	0.615	0.189	0.718
3	2	1	35		0.215	0.726	0.156	0.874
3	1	NAC 2	50		0.307	0.837	0.257	1.131

Percent Loss **5.55%**

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plot date:
project number: 20-296
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ONE-LINE DIAGRAM AND DETAILS - FIRE ALARM

FA5.01

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ABBREVIATIONS

TELECOMMUNICATIONS

110	TWISTED PAIR TERMINATION BLOCK
ADF	AREA DISTRIBUTION FACILITY
BDC	BUILDING DISTRIBUTION FRAME
BEF	BUILDING ENTRANCE FRAME
BO	BY OTHERS
CAB	TELECOM CABINET OR ENCLOSURE
CONN	CONNECTOR
CSC	COPPER SPLICE CLOSURE
CVE	CONTROLLED ENVIRONMENT VAULT
FDF	FIBER DISTRIBUTION FACILITY
FS	FIBER SHELF/FIBER TERMINATION PANEL
FSC	FIBER OPTIC SPLICE CLOSURE
HH	HANDHOLE
IDC	INTERMEDIATE DISTRIBUTION TELECOMMUNICATIONS ROOM
IDF	INTERMEDIATE DISTRIBUTION FRAME
ISP	INSIDE PLANT – CABLE WITHIN A BUILDING
IT	INFORMATION TECHNOLOGY
LAN	LOCAL AREA NETWORK
MDC	MAIN DISTRIBUTION TELECOMMUNICATIONS ROOM
MDF	MAIN DISTRIBUTION FRAME
MH	MANHOLE, MAINTENANCE HOLE
MPOE	MINIMUM POINT OF ENTRY
OCEF	OPTICAL CABLE ENTRANCE FACILITY
OSP	OUTSIDE PLANT – CABLE OUTSIDE A BUILDING
PAV	PAVEMENT
PC	PLASTIC CONDUIT
PG	PAIR GROUP
POP	POINT OF PRESENCE
PR	PAIR
PVC	POLYVINYL CHLORIDE
RU	RACK UNIT
R/W	RIGHT-OF-WAY
SC	SPLICE CLOSURE
SCS	STRUCTURED CABLING SYSTEM
SER	SERIAL
SMR	SURFACE MOUNTED RACEWAY
SS	FIBER SPLICE SHELF
TC	TELECOM CONDUIT
TCH	TELECOM CONDUIT SLEEVE, HORIZONTAL
TCR	TELECOM HORIZONTAL AND VERTICAL RISER CONDUIT
TCT	TELCOM CABLE TRAY
TEC	TELECOM ENTRANCE CONDUIT
TEL	TELEPHONE
TELECOM	TELECOMMUNICATIONS
TERM	TERMINAL
TP	TWISTED PAIR
TPB	TELECOM PULL BOX
TR	TELECOM ROOM
TSL	TELECOM WALL OR FLOOR SLOT
TSV	TELECOM CONDUIT SLEEVE, VERTICAL
WAN	WIDE AREA NETWORK

ELECTRICAL

A or AMP	AMPERE
BND	BOND(ING)
C	CONDUIT
ELEC	ELECTRIC(AL)
EMT	ELECTRICAL METALLIC TUBING
ENT	ELECTRICAL NON-METALLIC TUBING
GRC	GALVANIZED RIGID CONDUIT
GND	GROUND
Hz	HERTZ
IG	ISOLATED GROUND
IMC	INTERMEDIATE METALLIC CONDUIT
PB	PULL BOX
PLN	PANEL
PWR	POWER
UPS	UNINTERRUPTABLE POWER SUPPLY
V	VOLT
VAC	VOLTS, ALTERNATING CURRENT
VDC	VOLTS, DIRECT CURRENT
W	WATT
XFMR	TRANSFORMER

GENERAL

(e)or(E)	EXISTING
(n)or(N)	NEW
ABV	ABOVE
ACH	ABOVE COUNTER HEIGHT
ACT	ACOUSTICAL CEILING TILE
ADJ	ADJUST(ABLE)
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ALT	ALTERNATE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX	APPROXIMATE
ARCH	ARCHITECT(URAL)
ASA	AMERICAN STANDARDS ASSOCIATION
AV	AUDIOVISUAL
AVC	AUDIOVISUAL CONTRACTOR
BET	BETWEEN
BFC	BELOW FINISHED CEILING
BLDG	BUILDING
BLW	BELOW
CB	CEILING BOX
C-C	CENTER TO CENTER
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
CMU	CONTRETE MASON UNIT
COL	COLUMN
CONC	CONGRETE
CONT	CONTINUOUS
COORD	COORDINATE, COORDINATION
CORR	CORRIDOR
DED	DEDICATE, DEDICATED
DEMO	DEMOLISH
DEPT	DEPARTMENT
DET	DETAIL
DIM	DIMENSION
DIST	DISTANCE
DTV	DATA TELECOMMUNICATION CONTRACTOR
DWG	DRAWING
EA	EACH
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVATION
EMERG	EMERGENCY
EQ.	EQUAL
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
EWB	ELECTRONIC WHITE BOARD
EXT	EXTERIOR
FCC	FEDERAL COMMUNICATIONS COMMISSION
FIN	FINISH
FLEX	FLEXIBLE
FLOR	FLOOR
FLOUR	FLOURESCENT
FUT	FUTURE
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GWB	GYPSUM WALL BOARD
IFC	IN FINISHED CEILING
IFF	IN FINISHED FLOOR
INCAND	INCANDESCENT
INCL	INCLUDE, INCLUDING
INFO	INFORMATION
INT	INTERIOR
LVI	LOW VOLTAGE INTERFACE
MAX	MAXIMUM
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, AND PLUMBING
MFG	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
NA	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOC.
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
No.	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFE	OWNER FURNISHED EQUIPMENT
OFOI	OWNER FURNISHED OWNER INSTALLED
OPP	OPPOSITE
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMIN.
OVHD	OVERHEAD
PLC	PERFORMANCE LIGHTING CONTRACTOR
PLY	PLYWOOD
PRI	PRIMARY
PROP	PROPOSED
PSC	PROJECTION SCREEN CONTROL
QTY	QUANTITY
RCP	REFLECTED CEILING PLAN
RCT	RECEPTACLE
REF	REFERENCE
REM	REMOVE
REPL	RELPACE
REQD	REQUIRED
RM	ROOM
SCHD	SCHEDULE
SECT	SECTION
SHT	DRAWING SHEET NUMBER OR SERIES
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
STD	STANDARD
STL	STEEL
SUSP	SUSPEND(ED)
SWT	SWITCH
SYM	SYMMETRICAL
TELC	TELECOMMUNICATIONS CONTRACTOR
TEMP	TEMPORARY
THK	THICK(NESS)
TIA/EIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION/ ELECTRONICS INDUSTRY ALLIANCE
TME	TO MATCH EXISTING
TYP	TYPICAL
UBC	UNIFORM BUILDING CODE
UC	UNDER COUNTER
UL	UNDERWRITERS LABORATORY
UON	UNLESS OTHERWISE NOTED
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WD	WOOD

MEASUREMENTS

BTU	BRITISH THERMAL UNIT
D or Dp	DEEP
DIA	DIAMETER
FT	FOOT or FEET
H or HGT	HEIGHT or HIGH
ID	INSIDE DIAMETER
In	INCH
L	LENGTH or LONG
Lb	POUND
LIN	LINEAR
M	METER
mm	MILLIMETER
OD	OUTSIDE DIAMETER
R	RADIUS
RAD	RADIANS
um	MICRON
W	WIDE
WT	WEIGHT
YD	YARD

DIRECTIONAL

DN	DOWN
E	EAST
HORIZ	HORIZONTAL
L	LEFT
LH	LEFT HAND
N	NORTH
PERP	PERPENDICULAR
R	RIGHT
RH	RIGHT HAND
S	SOUTH
VERT	VERTICAL
W	WEST

SYMBOLS

#	POUND or NUMBER
&	AND
@	AT
'	FOOT or FEET
"	INCH or INCHES
+/- or ±	PLUS OR MINUS
<	LESS THAN
=	EQUAL
>	GREATER THAN
°	DEGREES, ANGULAR MEASURE
Ω	OHM
| |	PARALLEL
ø	DIAMETER
∠	ANGLE

COLOR CODE

A	ALMOND
B	BROWN
C	CRIMSON RED
E	BLACK
G	GRAY
I	IVORY
L	BLUE
O	ORANGE
P	PURPLE
R	DARK RED
V	GREEN
W	WHITE
Y	YELLOW

WIRE AND CABLE

AFMW	BONDED FILL FLOODED TWISTED CABLE
ARMM	RISER ARMORED BONDED MULTIPAIR CABLE
AWG	AMERICAN WIRE GAUGE
CAT3	CATEGORY 3 TWISTED PAIR COPPER CABLE
CAT4	CATEGORY 4 TWISTED PAIR COPPER CABLE
CAT5	CATEGORY 5 TWISTED PAIR COPPER CABLE
CAT5e	CATEGORY 5 ENHANCED TWISTED PAIR COPPER CABLE
CAT6	CATEGORY 6 TWISTED PAIR COPPER CABLE
CM	NEC, COMMUNICATIONS CABLE
CMP	NEC, COMMUNICATIONS PLENUM CABLE
CMR	NEC, COMMUNICATIONS RISER CABLE
COAX	COAXIAL CABLE
FO	FIBER OPTIC
HDPE	HIGH DENSITY POLYETHELYNE
LTFF	LOOSE TUBE FILLED & FLOODED
MDPE	MEDIUM DENSITY POLYETHELYNE
MM	MULTIMODE FIBER OPTIC CABLE
MPP	NEC, MULTIPURPOSE PLENUM CABLE
OFC	NEC, OPTICAL FIBER CONDUCTIVE CABLE
OFCP	NEC, OPTICAL FIBER CONDUCTIVE PLENUM CABLE
OFCR	NEC, OPTICAL FIBER CONDUCTIVE RISER CABLE
OFN	NEC, OPTICAL FIBER NON-CONDUCTIVE CABLE
OFNP	NEC, OPTICAL FIBER NON-CONDUCTIVE PLENUM CABLE
OFNR	NEC, OPTICAL FIBER NON-CONDUCTIVE RISER CABLE
SM	SINGLE MODE FIBER OPTIC CABLE
STP	SHIELDED TWISTED PAIR
TB	TIGHT BUFFERED
UTP	UNSHIELDED TWISTED PAIR
WM	WIRE MANAGER/MANAGEMENT

FACILITY NOTES

1. SECURITY SYSTEM SHALL NOT IN ANY WAY LIMIT OR COMPROMISE EXITING THROUGH ALL REQUIRED EXIT ACCESS AND EXIT DISCHARGE SYSTEMS

GENERAL NOTES

1 CONDUIT: ALL CONDUIT IS TO BE 1-1/4" DIAMETER, UON.

2 RJ CONNECTORS: ALL RJ CABLE CONNECTIONS SHALL BE MADE WITH CRIMP TYPE CONNECTIONS. RJ45 CONNECTIONS ARE TO BE MAKE WITH SHIELDED GROUNDING CONNECTORS.

3 SIGNAL GROUNDING: USE THE RACK AS A COMMON POINT OF GROUNDING FOR ALL TECHNICAL SYSTEMS. THE RACK IS TO BE GROUNDED / BONDED TO EARTH. CABLE SHIELDS SHALL ONLY BE USED FOR SHIELDING AND CONNECTED TO GROUND AT THE RACK ONLY. ALL RACK-MOUNTED EQUIPMENT SHALL BE CHECKED FOR GROUND CONTINUITY BETWEEN CHASSIS AND THE RACK.

4 CABLING:

A ALL CABLING IS TO BE CONTINUOUS AND UN-SPLICED.

B CABLE RUNWAY SYSTEMS SHALL BE UTILIZED AS THE MAIN DISTRIBUTION OF ALL CABLES.

C PLENUM RATED CABLES AND CABLE TIES MUST BE USED WHEN CABLES ARE LOCATED IN AN AIR PLENUM.

D CABLES WITHIN RACKS SHALL BE BUNDLED AND LACED NEATLY TO SUPPORT MEMBERS (BOUND WITH VELCRO STYLE REUSABLE SELF-GRIPPING CABLE TIES) WITH A SERVICE LOOP LARGE ENOUGH TO MAINTAIN CONVENIENT ACCESS TO ALL EQUIPMENT CONNECTIONS.

E EQUIPMENT POWER CABLE IS TO BE SEPARATED FROM SIGNAL CABLES WITH IN ANY ENCLOSURE. PROVIDE THE MAXIMUM SEPARATION POSSIBLE WITHIN THE ENCLOSURE.

5 TECHNOLOGY CONVEYANCE SYSTEM:

A CONDUITS WHICH CARRY POWER MUST BE SEPARATED FROM TECHNOLOGY CONDUITS BY 12 INCHES FOR VOLTAGES OVER 100 VAC, 24 INCHES FOR VOLTAGES OVER 200 VAC AND 48 INCHES FOR ALL VOLTAGES OVER 300 VAC. WHERE POWER AND TECHNOLOGY CABLING AND CONDUIT CROSS, THEY SHOULD DO SO AT RIGHT ANGLES.

B ALL CONDUIT SHALL BE CLEANED, DEBURRED AND HAVE PULL-STRINGS INSTALLED.

C ALL INTERIOR AND ABOVE GRADE CONDUIT SHALL BE SOLID FERRIC METALLIC. ALL CONDUIT BELOW GRADE SHALL BE PLASTIC. CONTRACTOR SHALL NOT CHANGE CONDUIT TYPE WITHOUT DESIGN CONSULTANT APPROVAL.

D BACK BOXES TO BE SET TO ALLOW ALL SECURITY DEVICES TO BE INSTALLED TIGHT TO THE ADJACENT SURFACE.

E BACK BOXES AT SECURITY DEVICES SHALL BE 4-11/16" SQUARE BOX WITH SINGLE GANG MUD RINGS (1). 1-1/4" CONDUITS FROM BACK BOXES SHALL ROUTE TO THE J-HOOKS.

F COORDINATE BACK BOX ELEVATIONS AND LOCATIONS SHOWN WITH THE ELECTRICAL BACK BOX RACEWAYS SHOWN ON THE ELECTRICAL DRAWINGS.

G J-HOOK STYLE CABLE SUPPORT SYSTEM SHALL RUN ABOVE THE CEILINGS IN THE BUILDING CORRIDORS. ALL CABLES SHALL BE SUPPORTED AT A MAXIMUM OF 4' INTERVALS – AT NO POINT SHALL CABLES REST ON ACOUSTIC CEILING GRIDS OR PANELS.

H CABLES SHALL NOT BE ATTACHED TO CEILING GRID OR LIGHTING SUPPORT WIRES. WHERE LIGHT SUPPORT FOR DROP CABLE LEGS IS REQUIRED, THE CONTRACTOR SHALL INSTALL CLIPS TO SUPPORT THE CABLING.

I ALL CONDUITS, SLEEVES, AND OTHER WALL PENETRATIONS SHALL BE FIRE STOPPED. ALL FIRE-STOPS SHALL BE UL LISTED AND MATCH THE FIRE RATING OF THE ASSEMBLY

5 WIRING: ALL WIRING SHALL BE INSTALLED IN ACCORDANCE WITH BICSI STANDARD PRACTICES. CABLE JACKET SHALL BE COLOR CODED TO MAINTAIN A CONSISTENT IDENTIFICATION OF PHASING.

6 MARKINGS:PERMANENTLY MARK ALL CONNECTORS, CABLES, AND CABLE TERMINATIONS TO INDICATE THEIR FUNCTION AS IT CORRESPONDS TO THE WIRING DIAGRAM. ALL CABLE PAIRS SHALL BE CODED WITH PERMANENTLY ATTACHED LABELS ON THE CABLE ENDS WITH CONSISTENT COLOR-CODED MARKINGS TO INDICATE THEIR FUNCTION.

7 AESTHETICS: COORDINATE THE ELEVATION/LOCATION, FINISH AND COLOR OF ALL PLATES, WALL SWITCHES, FLOOR BOXES AND JUNCTION BOXES WITH THE CONSULTANT. ALL ENGRAVED LABELS SHALL BE FILLED WITH WHITE OR BLACK AS REQUIRED FOR THE GREATEST CONTRAST BETWEEN THE ENGRAVING AND FACEPLATE/LABEL BACKGROUND COLOR.

8 VENTILATION: PROVIDE ADEQUATE VENTILATION IN EQUIPMENT RACKS TO CONFORM TO THE EQUIPMENT MANUFACTURER'S TEMPERATURE REQUIREMENTS.

9 FASTENERS, HANGERS, SUPPORTS: PROVIDE FASTENERS, SUPPORTS AND SEISMIC RESTRAINTS TO ADEQUATELY SUPPORT THE LOAD.

10 WORKMANSHIP: INSTALLATION OF ALL WORK INCLUDING CABLING SHALL BE NEAT. ALL BOXES INCLUDING THE CAMERA ENCLOSURES, EQUIPMENT RACKS, ETC. SHALL BE PLUMB AND SQUARELY LOCATED. REPLACE/PATCH ALL CEILING, WALLS AND FLOOR REMOVED OR MODIFIED FOR THIS WORK WHEN THE WORK IS COMPLETE. LEAVE THE JOB SITE CLEAN AND FREE FROM MARKS AND BLEMISHES.

13 DEVICE BOXES SHOWN BACK TO BACK SHALL BE OFFSET A MINIMUM OF 12" TO REDUCE SOUND TRANSMISSION BETWEEN ROOMS.

PROJECT NOTES

1 POWER:

A EACH CIRCUIT THAT SERVES TECHNOLOGY SYSTEMS MUST HAVE A DEDICATED GROUND AND NEUTRAL CONDUCTOR. SHARED GROUNDS AND NEUTRALS ARE NOT ACCEPTABLE.

B ALL CIRCUITS ARE 120 VAC, 60 HZ, 1-PHASE, UON.

C NOMINAL ELECTROCAL VOLTAGE IS 120 VAC. VOLTAGE MUST BE MAINTAINED WITH +/-10 PERCENT OF NOMINAL AT ALL TIMES FOR PROPER EQUIPMENT OPERATION.

2 PRIOR TO THE START OF ACTIVE EQUIPMENT INSTALLATION THE EQUIPMENT SPACES SHALL BE:

A CLEAN AND SEALED FROM DUST PRIOR TO EQUIPMENT INSTALLATION.

B MAINTAINED AT A TEMPERATURE OF 72 ± 10 DEGREES FAHRENHEIT AT ALL TIMES.

C MAINTAINED AT A RELATIVE HUMIDITY BETWEEN 40 AND 70 PERCENT AT ALL TIMES.

4 ALL BLOCKING TO BE PROVIDED BY GC.

5 ALL POWER, FLOOR BOXES, CABLE PATHS, BACK BOXES, AND PLYWOOD FACING FOR THE COMMUNICATIONS SYSTEM ARE TO BE PROVIDED AND INSTALLED BY GC/EC.

6 VENTS, GRILLS AND GROMMETS PROVIDED BY THE CASEWORK/MILLWORK VENDOR.

7 ALL NETWORK CABLES (CAT 6A) WILL BE PROVIDED AND INSTALLED BY THE TELECOM CONTRACTOR. REFER TO TN SHEETS.

PROJECT SYMBOLS

DC DOOR CONTACT
SEE SHEET TY7.02

KP CARD READER WITH KEYPAD
SEE SHEET TY7.02

CR CARD READER
SEE SHEET TY7.02

ER ELECTRIC LOCKSET WITH INTERNAL REX SWITCH
SEE SHEET TY7.02

PT POWER TRANSFER HINGE/PIVOT
SEE SHEET TY7.02

EXTERIOR CORNER MOUNT CAMERA, 360 DEGREE
SEE DETAIL 3/TY7.01 AND 6/TY7.01

/ TN-##
ELEVATION INDICATOR/LOCATOR. SEE ASSOCIATED ELEVATION.
UPPER # INDICATES DETAIL NUMBER. LOWER # INDICATES SHEET.

/ TN-##
ENLARGED PLAN/DETAIL INDICATOR/LOCATOR. SEE ASSOCIATED ENLARGED PLAN/DETAIL.
UPPER # INDICATES DETAIL NUMBER. LOWER # INDICATES SHEET.

/ TN-##
SECTION INDICATOR/LOCATOR. SEE ASSOCIATED SECTION.
UPPER # INDICATES DETAIL NUMBER. LOWER # INDICATES SHEET.

GENERAL CONTRACTOR SCOPE OF WORK

DESCRIPTION OF WORK - FURNISH / INSTALL / TEST	CONTRACTOR				O
INFRASTRUCTURE	GC	EC	SC	TC	
CONSTRUCTION SCHEDULE AND ROOM READY DATES	X				
FIRE PROOFING FOR CONDUIT SLEEVES PENETRATING WALLS	X				
BLOCKING AND STRUCTURAL SUPPORT AS REQ.	X				
CONDUIT PATHWAYS AND JUNCTION BOXES		X			
POWER RECEPTACLES		X			
CATEGORY 6A AND FIBER OPTIC CABLING AND TERMINATIONS				X	
CABLE SUPPORTS FOR ALL SECURITY CABLING			X		
	CONTRACTOR				O
VIDEO SURVEILLANCE	GC	EC	SC	TC	
SECURITY CAMERAS			X		
	CONTRACTOR				O
ACCESS CONTROL	GC	EC	SC	TC	
ACCESS CONTROL CABLING AND TERMINATIONS			X		
CARD READERS			X		
DOOR CONTACTS			X		
ACCESS CONTROL PANELS			X		
DOOR HARDWARE (ELECTRIFIED LOCK/STRIKE, REQUEST-TO-EXIT, ETC.)	X				
	CONTRACTOR				O
MISCELANEOUS	GC	EC	SC	TC	
ALL MOUNTING HARDWARE AND OTHER MISCELANEOUS COMPONENTS			X		
PATCH CORDS AS REQ. FOR SECURITY DEVICES			X		
CONFIGURE/PROGRAM ALL SECURITY SYSTEM SETTINGS AND SOFWARE			X		
SECURITY SOFTWARE LICENSES AS REQ.			X		
NETWORK SWITCHES FOR SECURITY DEVICES					X

LEGEND

CONTRACTOR REFERS TO THE CONSTRUCTION TEAM
GC = GENERAL CONTRACTOR
EC = ELECTRICAL CONTRACTOR
TC = TELECOM CONTRACTOR
SC = SECURITY CONTRACTOR
TC = TELECOM CONTRACTOR
O = OWNER
X = FURNISH AND INSTALL
(I) = INSTALL
(F) = FURNISH

SCOPE OF WORK

SHEET INDEX

DRAWINGS ISSUED LOG

NUMBER	DRAWING NAME	2/11/25 SCHEMATIC DESIGN	2/18/25 SD PRICING SET	12/27/24 75% DESIGN DEVELOPMENT	01/16/25 100% DESIGN DEVELOPMENT	09/16/24 50% CONSTRUCTION DOCUMENTS	10/25/24 DSA SUBMITTAL
TY0.01	SHEET INDEX AND NOTES	X	X	X	X	X	X
TY1.01	GROUND LEVEL FLOOR PLAN	X	X	X	X	X	X
TY1.02	SECOND LEVEL FLOOR PLAN	X	X	X	X	X	X
TY7.01	COORDINATION DETAILS	X	X	X	X	X	X
TY7.02	COORDINATION DETAILS						X

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APP: 01-121159 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 2/19/2025

HGA

CHABOT COLLEGE

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Orlando: 407.898.5665
Raleigh-Durham: 919.463.9995
Charlotte: 704.334.1060
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DSA BACKCHECK SUBMITTAL #2

2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

⚠	date	issue description

REGISTERED ARCHITECT
OF CALIFORNIA
RENEWAL DATE

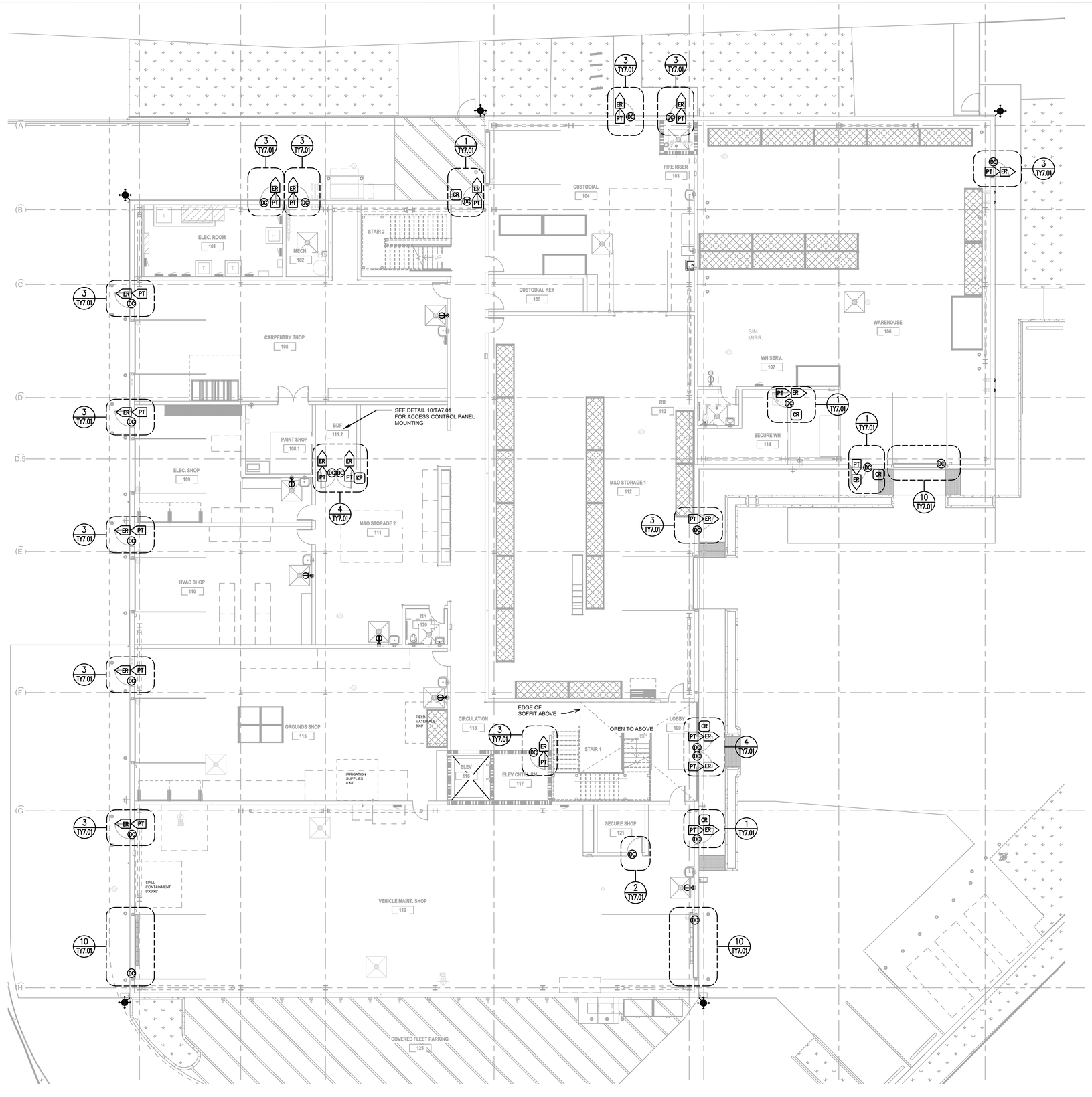
CHABOT M+O

25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: NOVEMBER 15, 2024

SHEET INDEX AND NOTES

TY0.01



GROUND LEVEL FLOOR PLAN

1

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	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

⚠	date	issue description

REGISTERED ARCHITECT
C-31715
RENEWAL DATE
STATE OF CALIFORNIA

CHABOT M+O

25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: NOVEMBER 15, 2024

GROUND LEVEL FLOOR PLAN

TY1.01

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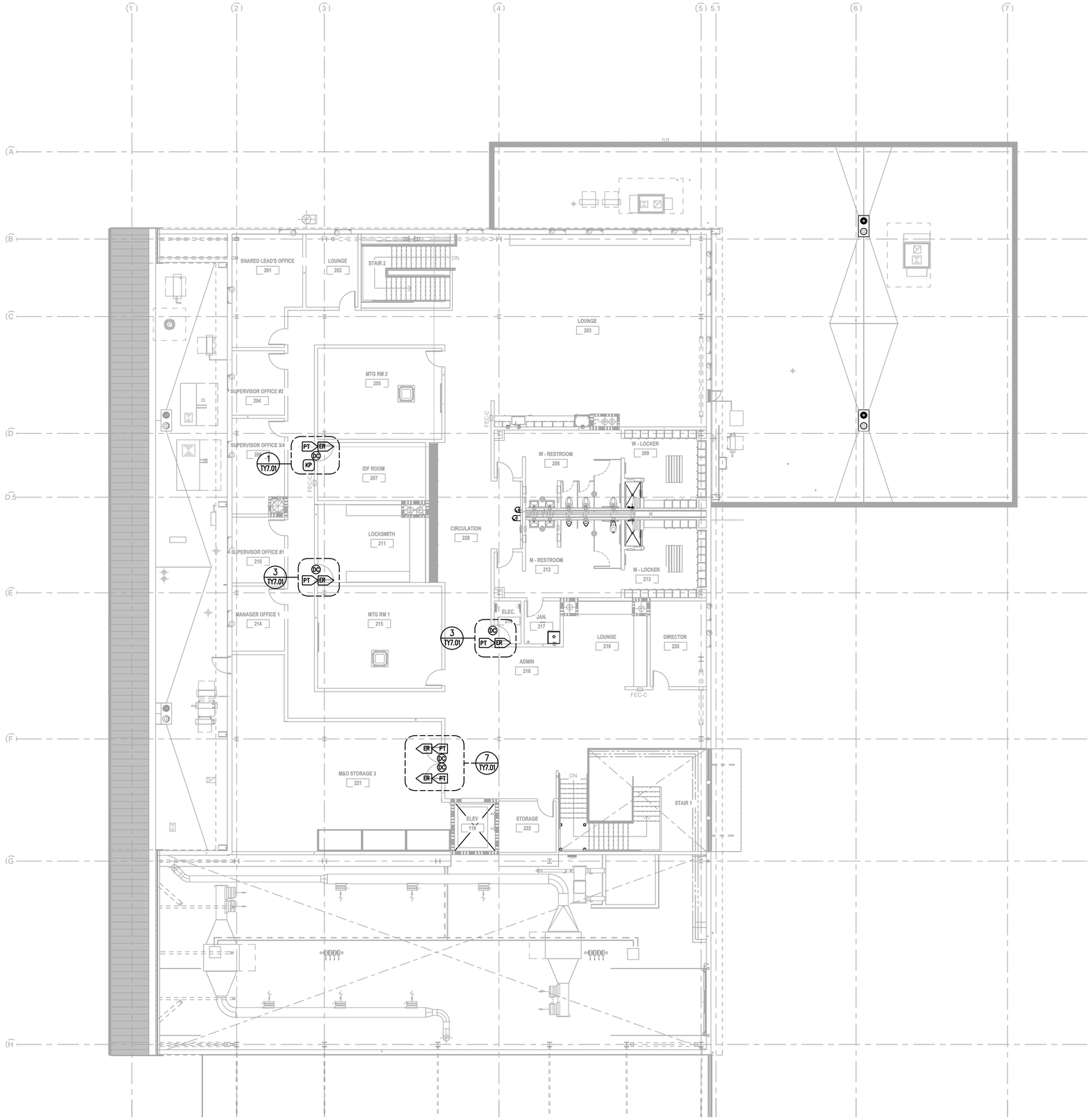

SECOND LEVEL FLOOR PLAN

1

DSA

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	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN
HGA	date	issue description

REGISTERED ARCHITECT
CHRISTOPHER M. PARK
No. C-31715
STATE OF CALIFORNIA
RENEWAL DATE

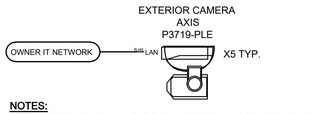
CHABOT M+O

25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: NOVEMBER 15, 2024

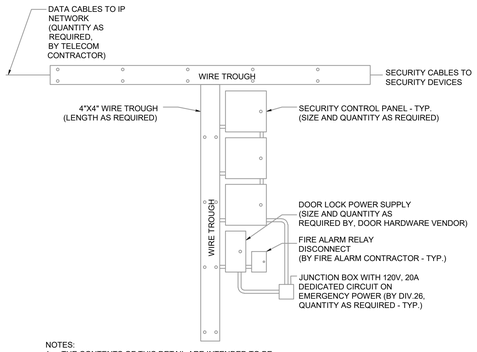
SECOND LEVEL FLOOR PLAN

TY1.02



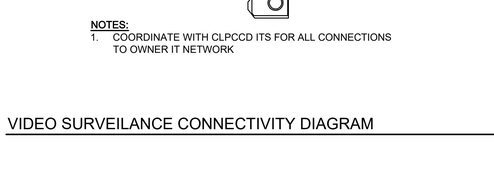
NOTES:
1. COORDINATE WITH CLPCCD ITS FOR ALL CONNECTIONS TO OWNER IT NETWORK

VIDEO SURVEILANCE CONNECTIVITY DIAGRAM 15



NOTES:
1. THE CONTENTS OF THIS DETAIL ARE INTENDED TO BE DIAGRAMMATIC AND COMMUNICATE THE DESIGN INTENT. THE SECURITY CONTRACTOR SHALL DETERMINE THE FINAL SECURITY PANEL CONFIGURATION, SIZE, AND QUANTITY.
2. COORDINATE INSTALLTION OF PANEL LOCATIONS WITH DIT. FINAL LOCATIONS SHALL BE DETERMINED BY DIT.

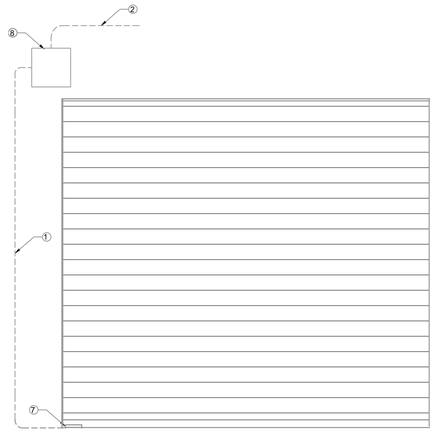
TYPICAL SECURITY PANEL MOUNTING DETAIL 14



FRONT ELEVATION **SECTION**

4	3/4" CONDUIT TO INTERIOR SPACE	AS SPECIFIED	EC
3	WALL BOX	AS SPECIFIED	EC
2	WALL MOUNT	PER SPEC SECTION 282300	SC
1	360 DEGREE CAMERA	PER SPEC SECTION 282300	SC
ITEM	DESCRIPTION	MFG/MODEL	BY

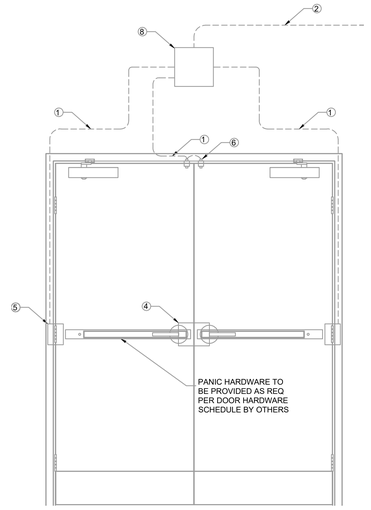
EXTERIOR MOUNTED CAMERA 13



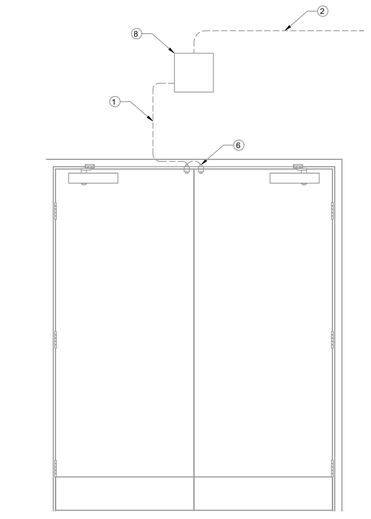
ITEM	DESCRIPTION	MFG/MODEL	BY
1	3/4" CONDUIT TO JUNCTION BOX	AS SPECIFIED	EC
2	J-HOOK/CABLING TO NEAREST IT ROOM	AS SPECIFIED	SC
3	CARD READER - MOUNTED ON SECURED SIDE	PER SPEC SECTION 280500	SC
4	ELECTRIFIED DOOR HARDWARE WITH INTERNAL REX SWITCH REFER TO DOOR HARDWARE SCHEDULE FOR TYPE	AS SPECIFIED	EC
5	ELECTRIFIED POWER TRANSFER DEVICE	AS SPECIFIED	EC
6	FLUSH MOUNT DOOR CONTACT	PER SPEC SECTION 280500	SC
7	FLOOR MOUNT DOOR CONTACT	PER SPEC SECTION 280500	SC
8	10" x 10" x 6" JUNCTION BOX - MOUNTED ON SECURE SIDE INSTALL ABOVE NEAREST ACCESSIBLE CEILNIG	AS SPECIFIED	EC

NOTES:
1. ALL CONDUIT PROVIDED AND INSTALLED BY EC.
2. SECURE DEVICE TO WALL/CEILING SURFACE WITH MANUFACTURER APPROVED METHODS.
3. CONDUIT MAY EXIT TOP, BOTTOM, OR EITHER SIDE AS APPROPRIATE BY LOCATION AND AS DICTATED BY SITE CONDITIONS.
4. EXTEND CONDUIT FOR DOOR CONTACTS APPROXIMATELY 1" INTO THE DOOR FRAME. DOOR FRAME MATERIAL VARIES. SEE ARCHITECTURAL.
5. PROVIDE BLANK COVERS FOR ALL CARD READERS.
6. CARD READERS SHALL NOT BE FURTHER THAN 18" FROM CORRESPONDING DOOR ON LATCH SIDE.
7. ALL DOOR HARDWARE SHALL BE PROVIDED PER THE DOOR HARDWARE SCHEDULE (BY OTHERS). DOOR HARDWARE IS SHOWN FOR COORDINATION ONLY.

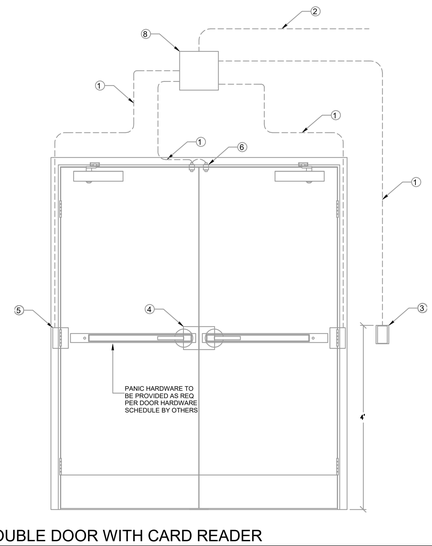
GENERAL NOTES 9



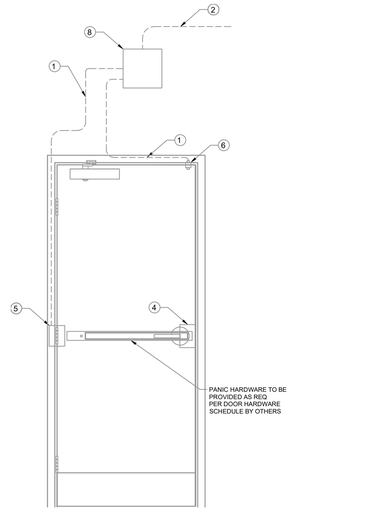
DOUBLE DOOR WITH ELECTRIFIED HARDWARE 7



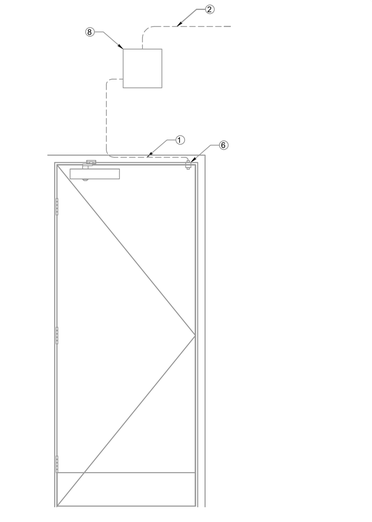
DOUBLE DOOR WITH DOOR CONTACTS ONLY 6



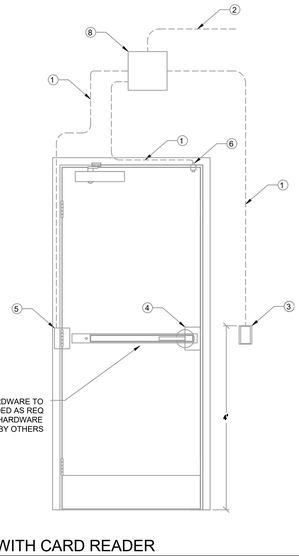
DOUBLE DOOR WITH CARD READER 5



SINGLE DOOR WITH ELECTRIFIED HARDWARE 3



SINGLE DOOR WITH DOOR CONTACTS ONLY 2



SINGLE DOOR WITH CARD READER 1

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DATE: 2/19/2025

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2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

⚠	date	issue description

STATE OF CALIFORNIA — C-10 415 — RENEWAL DATE — ARCHITECT

CHABOT M+O

25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: NOVEMBER 15, 2024

COORDINATION DETAILS

TY7.01

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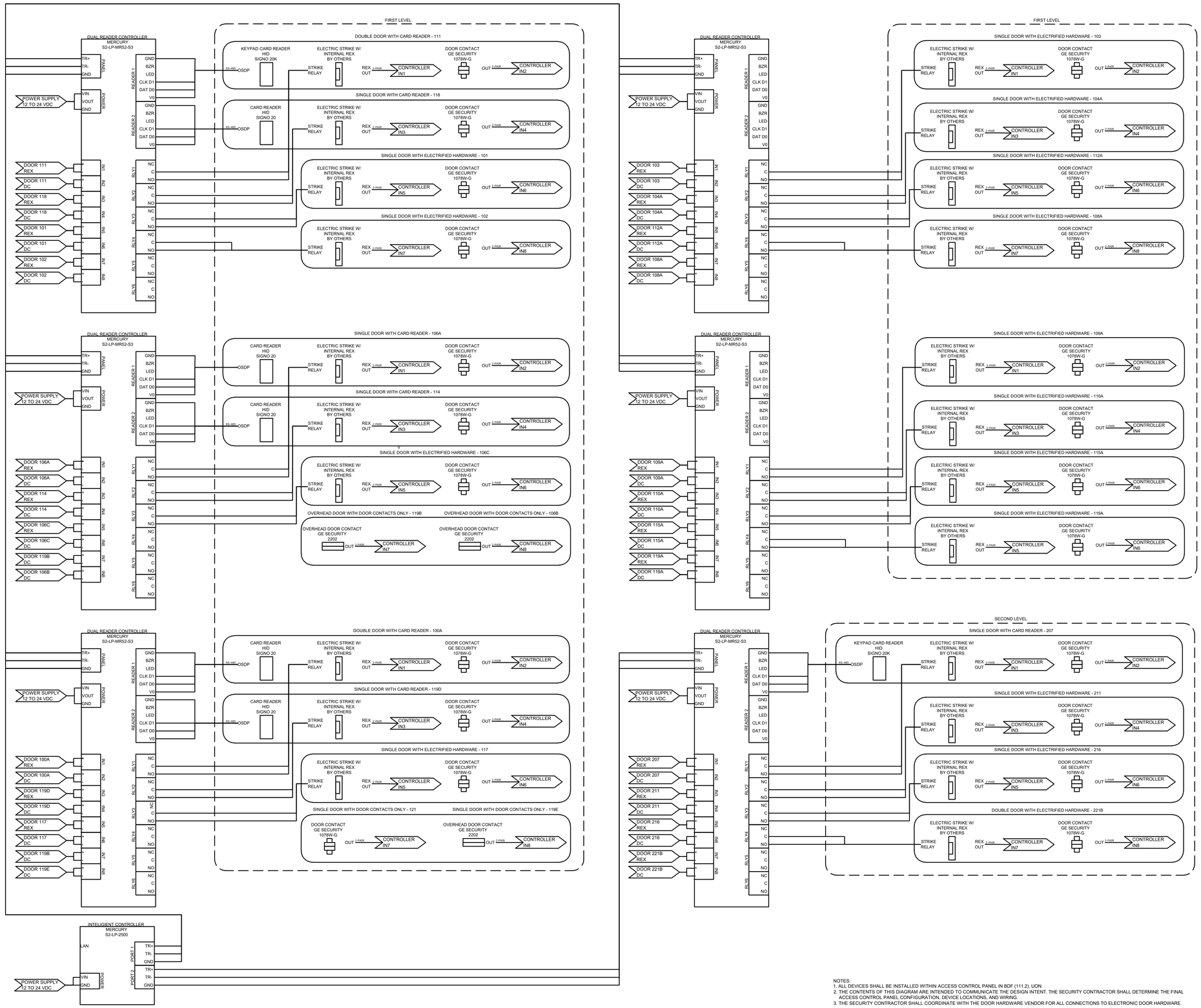

NOTES:
1. ALL DEVICES SHALL BE INSTALLED WITHIN ACCESS CONTROL PANEL IN BDF (111.2), UON.
2. THE CONTENTS OF THIS DIAGRAM ARE INTENDED TO COMMUNICATE THE DESIGN INTENT. THE SECURITY CONTRACTOR SHALL DETERMINE THE FINAL ACCESS CONTROL PANEL CONFIGURATION, DEVICE LOCATIONS, AND WIRING.
3. THE SECURITY CONTRACTOR SHALL COORDINATE WITH THE DOOR HARDWARE VENDOR FOR ALL CONNECTIONS TO ELECTRONIC DOOR HARDWARE.

SECURITY DIAGRAM

1

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PLUMBING SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

(A)	ABANDON IN PLACE
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
AR	ACID-RESISTANT
&	AND
A	AQUASTAT, ARCHITECT, ANCHOR, AMPHERE
@	AT
BFP	BACKFLOW PREVENTER
BV	BALANCING VALVE
BFF	BELOW FINISHED FLOOR
BF	BLIND FLANGE
BTUH	BRITISH THERMAL UNITS PER HOUR
BLDG	BUILDING
CV	CHECK VALVE
CO	CLEANOUT
CW	COLD WATER
CD	CONDENSATE DRAIN
CONT.	CONTINUATION
CFH	CUBIC FEET PER HOUR
CFS	CUBIC FEET PER SECOND
(X)	DEMOLISH
DW	DISHWASHER, DOMESTIC WATER
DET	DOMESTIC EXPANSION TANK
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DN	DOWN
DS	DOWNSPOUT
DSN	DOWNSPOUT NOZZLE
D	DRAIN
DFU	DRAINAGE FIXTURE UNIT
DWV	DRAINAGE, WASTE AND VENT
DF	DRINKING FOUNTAIN
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
ELECT	ELECTRICAL
ESV	ELECTRONIC SOLENOID VALVE
EEW	EMERGENCY EYE WASH
ESH	EMERGENCY SHOWER
(E)	EXISTING
EJ	EXPANSION JOINT
FT	FEET
FPS	FEET PER SECOND
FFE	FINISHED FLOOR ELEVATION
F	FIRE, FAHRENHEIT
FC	FLEXIBLE CONNECTOR
FL	FLOOR
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FS	FLOOR SINK, FLOW SWITCH
FV	FLUSH VALVE
'	FOOT, FEET
(F)	FUTURE
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GD	GARBAGE DISPOSER, GARAGE DRAIN
GWH	GAS WATER HEATER
GW	GREASE WASTE
HD	HEAD, HUB DRAIN
HP	HEAT PUMP, HORSE POWER, HOUSEKEEPING PAD
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HZ	HERTZ
HB	HOSE BIBB
HW	HOT WATER
HWFU	HOT WATER FIXTURE UNIT
HWR	HOT WATER RETURN
IN, "	INCHES
IW	INDIRECT WASTE
INV	INVERT ELEVATION
KW	KILOWATT
L	LAVATORY
MW	MAKE-UP WATER
MAX	MAXIMUM
HG	MERCURY
MIN	MINIMUM
MX	MIXING VALVE
MS	MOP SINK
MH	MOUNTING HEIGHT, MANHOLE
(N)	NEW
NPCW	NON-POTABLE COLD WATER
NOP	NORMALLY OPEN
N	NORTH
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
#	NUMBER
NO.	NUMBER
OD	OVERFLOW DRAIN, OUTSIDE DIAMETER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
PH	PHASE
PLBG	PLUMBING
P	PLUMBING, PUMP
POC	POINT OF CONNECTION
PSI	POUNDS PER SQUARE INCH
PD	PRESSURE DROP, PLUMBING DEMOLITION, PUMPED DISCHARGE
PG	PRESSURE GAUGE
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SWITCH
QTY	QUANTITY
RWL	RAINWATER LEADER
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RV	RELIEF VENT, RELIEF VALVE
(R)	RELOCATE / RELOCATED LOCATION
RPM	REVOLUTIONS PER MINUTE
RD	ROOF DRAIN
SAN	SANITARY
SJ	SEISMIC JOINT
SB	SERVICE BOX
SS	SERVICE SINK
SHT	SHEET
SA	SHOCK ARRESTOR
SH	SHOWER
SOV	SHUT OFF VALVE
S, SK	SINK
SF	SQUARE FEET
SD	STORM DRAIN
SP	SUMP PUMP, STATIC PRESSURE
TEMP	TEMPERATURE
T&P	TEMPERATURE AND PRESSURE
T	TEMPERATURE, THERMOMETER
TP	TRAP PRIMER, TOTAL PRESSURE
TD	TRENCH DRAIN
TYP	TYPICAL
U, UR	URINAL
V	VACUUM, VENT, VOLT
VFD	VARIABLE FREQUENCY DRIVE
VS	VENT STACK
VTR	VENT THRU ROOF
WCO	WALL CLEANOUT
WB	WASHER BOX
W	WASTE
WS	WASTE STACK
WC	WATER COLUMN
WC	WATER COLUMN, WATER CLOSET
WHA	WATER HAMMER ARRESTOR
WH	WATER HEATER, WALL HYDRANT
WSFU	WATER SUPPLY FIXTURE UNIT
W/	WITH

General

- CONTINUATION
- X / X — DETAIL NUMBER AND SHEET LOCATION
- XX-X / LOCATION — EQUIPMENT IDENTIFICATION
- EXTENT OF DEMOLITION
- X — FIXTURE TAG (LEVEL BELOW FIXTURE)
- XX — FOOD SERVICE EQUIPMENT / CALCULATION TAG
- X — KEYED NOTE
- PIPE BELOW GRADE
- POINT OF CONNECTION
- X / XXX — SECTION NUMBER AND SHEET LOCATION
- DEMOLISH
- EXISTING WORK
- NEW WORK
- PIPE OR CONDUIT BELOW GRADE

Piping Fittings

- AP — ACCESS PANEL
- AQUASTAT
- AD — AREA DRAIN
- BLIND FLANGE
- CAP
- COTG — CLEANOUT TO GRADE
- CONCENTRIC REDUCER
- DSN — DOWNSPOUT NOZZLE
- ECCENTRIC REDUCER
- EXPANSION JOINT
- FLEXIBLE CONNECTION
- FCO — FLOOR CLEANOUT
- FD — FLOOR DRAIN
- FS — FLOOR SINK
- FLOW DIRECTION
- FLOW SWITCH
- HOSE BIBB / WALL HYDRANT
- HD — HUB DRAIN
- METER
- OD — OVERFLOW ROOF DRAIN
- PEX — PEX MANIFOLD
- PIPE DROP
- PIPE RISE
- PRESSURE GAUGE WITH COCK
- PUMP
- RD — ROOF DRAIN
- SHOCK ABSORBER / WATER HAMMER ARRESTOR
- STRAINER
- T&P RELIEF VALVE WITH PIPE TO DRAIN
- TEE DOWN ON PIPE
- TEE UP ON PIPE
- TEMPERATURE SENSOR
- TEST PORT
- THERMOMETER
- TP — TRAP PRIMER MANIFOLD
- TRENCH DRAIN
- UNION
- VACUUM RELIEF
- VTR — VENT THROUGH ROOF
- WCO — WALL CLEANOUT

Piping Systems

- 140°HW — 140%%d HOT WATER PIPING
- 140°HWR — 140%%d HOT WATER RETURN PIPING
- COLD WATER PIPING
- CA — COMPRESSED AIR PIPING
- D — CONDENSATE / INDIRECT DRAIN PIPING
- DI — DISTILLED WATER
- HOT WATER PIPING
- HOT WATER RETURN PIPING
- NP — NON-POTABLE COLD WATER PIPING
- NP — NON-POTABLE HOT WATER PIPING
- SANITARY VENT PIPING
- SANITARY WASTE OR SOIL PIPING ABOVE GRADE OR FINISHED FLOOR
- SANITARY WASTE OR SOIL PIPING BELOW GRADE OR FINISHED FLOOR
- TP — TRAP PRIMER PIPING

Valves

- BFP — BACKFLOW PREVENTER
- BACKWATER VALVE
- X GPM — BALANCING VALVE
- CHECK VALVE
- EARTHQUAKE GAS VALVE
- ELECTRONIC SOLENOID VALVE
- GLOBE VALVE
- HOSE END DRAIN VALVE
- PRESSURE REDUCING VALVE
- SHUTOFF VALVE, GENERAL

GENERAL SEISMIC BRACING

A. PROVIDE SEISMIC BRACING OF HVAC EQUIPMENT, DUCTWORK, AND PIPING IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST BUILDING CODE WITH AN IMPORTANCE FACTOR IDENTIFIED ON ARCHITECTURAL AND STRUCTURAL DOCUMENTS.

B. REFER TO STRUCTURAL DRAWINGS FOR CONCRETE ANCHOR TYPE AND INSTALLATION REQUIREMENTS.

C. SUBMIT SEISMIC BRACING DETAILS FOR REVIEW.

D. UNLESS THE STRUCTURAL DRAWINGS HAVE AN ENGINEERED SYSTEM, OR THE CONTRACTOR PROVIDES ENGINEERED SYSTEMS SIGNED BY A CALIFORNIA REGISTERED CIVIL OR STRUCTURAL ENGINEER, SUPPORT AND BRACE DUCTWORK, PIPING, AND APPURTENANCES WITH OSHPD PRE-APPROVED SYSTEMS (WHETHER AN OSHPD PROJECT OR NOT):

1. OPM-0043-13 MASON SEISMIC RESTRAINT COMPONENTS FOR SUSPENDED UTILITIES.
2. OPM 0052-13 EATON/TOLCO SEISMIC BRACING & HANGERS.

E. WITHOUT ANY EXCEPTIONS, BRACE EVERY RUN OF DUCT DESIGNED TO CARRY TOXIC OR EXPLOSIVE GASSES, OR USED FOR SMOKE CONTROL OR PRESSURIZATION AIR. FOR OTHER DUCTWORK BRACE EVERY RUN OF DUCT WITH A CROSS SECTIONAL AREA OF LARGER THAN 6 SQ.FT., EXCEPT THAT BRACING OF DUCTWORK WITH SUPPORT ROD LENGTH LESS THAN 12" IS NOT REQUIRED. ROD LENGTH SHALL BE AS MEASURED FROM TOP OF DUCT TO BOTTOM OF SUPPORT WHERE THE HANGER IS ATTACHED. SEISMIC BRACING, WHERE SHOWN ON DRAWINGS, IS THE MINIMUM REQUIRED; PROVIDE ADDITIONAL BRACING AS REQUIRED BY OPM-0043-13, OR EQUAL.

F. WHERE BRACING IS REQUIRED, BRACE DUCTWORK FOR EACH STRAIGHT RUN OF DUCT WITH THE FOLLOWING REQUIREMENTS (SEE OPM-0043-13 FOR ADDITIONAL REQUIREMENTS):

1. LONGITUDINAL BRACING: MINIMUM 1, WITH MAXIMUM SPACING OF 60'.
2. TRANSVERSE BRACING: MINIMUM TWO, WITH MAXIMUM SPACING OF 30', AT END OF DUCT RUNS HAVING MIN OF 2 SUPPORTS, AND AT EVERY DROP OR RISE EXCEPT FOR CONNECTIONS TO DIFFUSERS WHERE THE ELEVATION CHANGE OF CONNECTING DUCTWORK IS LESS THAN 24 INCHES.

DSA COMPONENT ANCHORAGE NOTES

A. ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26, AND ASCE 7-10 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

B. THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED TO BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENTS AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

1. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
2. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

C. FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

A. PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.8, 13.6.7, 13.6.5.6, AND 2019 CBC, SECTIONS 1617A.1.23, 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

B. THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (e.g., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLAATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AAND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

C. MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEM (E):

MP __ MD __ PP X E __ SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM#)

SEISMIC RESTRAINT COMPONENTS FOR SUSPENDED UTILITIES, OR EQUAL AS INCLUDED IN THESE DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS

GENERAL PLUMBING NOTES

A. ALL WORK UNDER THIS CONTRACT SHALL CONFORM TO THE CURRENT STATE, COUNTY AND NATIONAL CODES AND STANDARDS ADOPTED BY THE LOCAL JURISDICTIONS INCLUDING APPLICABLE AMENDMENTS.

B. CONDITIONS SHOWN ON THE PLANS RELATIVE TO THE WORK TO BE PERFORMED ARE BASED ON THE BEST INFORMATION AVAILABLE AND SUBJECT TO VERIFICATION. VERIFY LOCATIONS AND ELEVATIONS OF UTILITIES TO BE CROSSED OR CONNECTED. CORRECT DEFICIENCIES CAUSED BY FAILURE TO PERFORM SUCH VERIFICATIONS AT NO EXPENSE TO OWNER. IMMEDIATELY NOTIFY ARCHITECT AND ENGINEER OF CONDITION IN CONFLICT WITH THE DETAILS/PLANS.

C. COORDINATE INSTALLATION OF PIPING, FIXTURES, EQUIPMENT AND THE LIKE BELOW AND ABOVE GRADE WITH STRUCTURAL COMPONENTS AND OTHER SYSTEMS INSTALLATION.

D. COORDINATE FIXTURES, EQUIPMENT, PIPE ROUGH-IN/CONNECTION LOCATIONS AND DRAIN LOCATIONS WITH ARCHITECTURAL DRAWINGS.

E. VALVES FOR SERVICE ACCESSIBILITY. VALVES INSTALLED ABOVE CEILING SHALL BE WITHIN 18" OF CEILING.

F. ALL WASTE PIPE TO SLOPE MINIMUM OF 1/4" PER FOOT.

G. PROVIDE WATER HAMMER ARRESTERS TO DOMESTIC WATER LINES SERVING QUICK ACTING VALVES SUCH AS THE FOLLOWING:
1. FLUSH VALVES.
2. SOLENOID VALVES TO ICEMAKERS AND DISHWASHER.
3. SENSOR FAUCETS.
4. SINGLE HANDLE FAUCETS.
5. SINGLE HANDLE SHOWER VALVES.
6. SINGLE HANDLE TUB-SHOWER VALVES.

H. EXCEPT FOR SHOWER DRAINS, ALL FLOOR DRAINS, FLOOR SINKS, AND OTHER INDIRECT WASTE RECEPTORS DIRECTLY CONNECTED TO THE DRAINAGE SYSTEM SHALL BE PROVIDED WITH AN AUTOMATIC TRAP PRIMER.

I. PERMANENT VACUUM BREAKERS SHALL BE INCLUDED IN ALL HOSE BIBS.

J. INSTALLATION OF THE DOMESTIC HOT WATER SYSTEM SHALL COMPLY WITH THE MANDATORY REQUIREMENTS OF SECTION 110.3 OF THE CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS.

K. DRAINAGE PIPING SERVING FIXTURES THAT ARE LOCATED BELOW THE ELEVATION OF THE NEXT UPSTREAM MANHOLE SHALL BE PROVIDED WITH A BACKWATER VALVE. FIXTURES ABOVE THAT LEVEL SHALL NOT DISCHARGE THROUGH THIS VALVE.

L. SEWER VENTS SHALL TERMINATE AT LEAST 10 FEET HORIZONTALLY FROM AND AT LEAST 3 FEET ABOVE OPENABLE WINDOW, DOOR OPENING, AIR INTAKE OR VENT SHAFT. VENT MUST BE AT LEAST 3 FEET FROM PROPERTY LINE.

M. PIPES PASSING THRU RATED ASSEMBLIES SHALL BE PROVIDED WITH UL LISTED FIRE-THROUGH PENETRATION FIRESTOP SYSTEM IN ACCORDANCE WITH THE 2019 CBC SECTION 714.

N. INDIRECT WASTE SHALL DISCHARGE TO THE BUILDING DRAINAGE THROUGH AN APPROVED AIR GAP OR AIR BREAK WITH A MINIMUM 1" DISTANCE FROM THE LOWEST POINT OF INDIRECT PIPE TO THE FLOOD LEVEL RIM OF THE RECEPTOR.

O. PROVIDE CLEAN-OUTS PER 2019 CPC SECTIONS 707.0 AND 719.0.
1.

SHEET INDEX

P0.01	PLUMBING GENERAL NOTES AND SYMBOL LIST
P0.02	PLUMBING SCHEDULES
P2.01	GROUND FLOOR PLAN - WASTE AND VENT
P2.02	SECOND FLOOR PLAN - WASTE AND VENT
P2.03	ROOF PLAN - WASTE AND VENT
P3.01	GROUND FLOOR PLAN - WATER
P3.02	SECOND FLOOR PLAN - WATER
P3.03	ROOF PLAN - WATER
P4.01	WASTE VENT LINE DIAGRAM
P4.02	WATER LINE DIAGRAM
P5.01	PLUMBING DETAILS
P6.01	PLUMBING ENLARGED PLAN

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REGISTERED PROFESSIONAL ENGINEER — Exp: 06/30/26 — MECHANICAL — STATE OF CALIFORNIA

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HAYWARD, CA 94545

plot date:
project number: 20-296
date: 12/11/2024

PLUMBING GENERAL NOTES AND SYMBOL LIST

P0.01

UPC WATER AND WASTE SERVICE CALCULATIONS

PRIVATE INDIVIDUAL DWELLING	PUBLIC GENERAL USE	PUBLIC HEAVY USE ASSEMBLY	DESCRIPTION	WATER SUPPLY FIXTURE UNITS TABLE A-2			TOTAL FIXTURE UNITS		DRAINAGE FIXTURE UNITS TABLE 7-3			TOTAL DFU
				PRIVATE INDIVIDUAL DWELLING	PUBLIC GENERAL USE	PUBLIC HEAVY USE ASSEMBLY	COLD WATER	.75 HOT WATER	PRIVATE INDIVIDUAL DWELLING	PUBLIC GENERAL USE	PUBLIC HEAVY USE ASSEMBLY	
0	0	0	BAR SINK	1	2	0	0	0	1	0	0	0
0	0	0	BAR SINK 2" MIN DRAIN BEYOND TRAP ARM	1	2	0	0	0	0	2	2	0
0	0	0	BATHTUB OR COMB BATH/SHOWER	4	4	0	0	0	2	2	0	0
0	0	0	BATHTUB OR COMB BATH/SHOWER - 3/4" FILL	10	10	0	0	0	2	2	0	0
0	0	0	BIDET	1	0	0	0	0	1	0	0	0
0	0	0	CLINIC SINK	0	8	0	0	0	0	6	6	0
0	2	0	CLOTHESWASHER DOMESTIC	4	4	0	8	6	3	3	3	6
0	0	0	DENTAL UNIT OR CUSPIDOR	0	1	0	0	0	0	1	1	0
0	0	0	DISHWASHER, DOMESTIC	1.5	1.5	0	0	0	2	2	2	0
0	1	0	DRINKING FOUNTAIN OR WATER COOLER	0	0.5	0.75	0.5	0	0.5	0.5	1	0.5
0	19	0	FLOOR DRAIN	0	0	0	0	0	2	2	2	38
0	0	0	FLOOR DRAIN, EMERGENCY	0	0	0	0	0	0	0	0	0
0	0	0	FOOD-WASTE-GRINDER, COMMERCIAL	0	0	0	0	0	0	3	3	0
0	1	0	HOSE BIBB	2.5	2.5	2.5	2.5	0	0	0	0	0
0	0	0	HOSE BIBB (HW/CW)	2.5	2.5	2.5	0	0	0	0	0	0
0	10	0	HOSE BIBB,EACH ADDITIONAL	1	1	1	10	0	0	0	0	0
0	2	0	KITCHEN SINK	1.5	1.5	0	3	2.25	2	2	0	4
0	1	0	LAUNDRY SINK	1.5	1.5	0	1.5	1.125	2	2	2	2
0	6	0	LAVATORY	1	1	1	6	4.5	1	1	1	6
0	0	0	LAWN SPRINKLER,EACH HEAD	1	1	0	0	0	0	0	0	0
0	0	0	MOBIL HOME,EACH	12	0	0	0	0	12	0	0	0
0	2	0	RECEPTOR, INC. WASTE, 3" TRAP	0	0	0	0	0	0	4	4	8
0	0	0	RECEPTOR, IND. WASTE, 1 1/2" TRAP	0	0	0	0	0	0	1	1	0
0	0	0	RECEPTOR, IND. WASTE, 2" TRAP	0	0	0	0	0	0	2	2	0
0	0	0	SERVICE SINK OR MOP BASIN	1.5	3	0	0	0	0	3	3	0
0	2	0	SHOWER,EACH HEAD	2	2	0	4	3	2	2	2	4
0	0	0	SHOWER,GROUP,PER HEAD,CONTINUOUS	0	5	0	0	0	1	1	1	0
0	2	0	URINAL, 1.0 GPF	3	4	5	8	0	2	2	5	4
0	0	0	URINAL,GREATER THAN 1.0 GPF	4	5	6	0	0	2	2	6	0
0	0	0	WASHFOUNTAIN, 1 1/2" TRAP	0	4	0	0	0	0	2	2	0
0	0	0	WASHFOUNTAIN, 2" TRAP	0	4	0	0	0	0	3	3	0
0	0	0	WASHUP SINK, EACH SET OF FAUCETS	0	2	0	0	0	0	2	2	0
0	0	0	WATER CLOSET, 1.6 GPF OR LESS, FLUSHOMETER TANK	2.5	2.5	3.5	0	0	3	4	6	0
0	6	0	WATER CLOSET, 1.6 GPF OR LESS, FLUSHOMETER VALVE	5	5	8	30	0	3	4	6	24
0	0	0	WATER CLOSET, 1.6 GPF OR LESS, GRAVITY TANK	2.5	2.5	3.5	0	0	3	4	6	0
Grand total							73.5	16.875				96.5

COLD AND HOT WATER PIPE SIZING CHART

	COLD WATER		COLD WATER		HOT WATER	
Size	FU's (F.V.)	GPM	FU's (F.T.)	GPM	FU's	GPM
1/2"	0	0	1	2	1	2
3/4"	0	0	7	6	7	6
1"	0	0	18	13	16	12
1-1/4"	5	22	34	22	28	19
1-1/2"	20	35	66	35	46	27
2"	124	74	245	74	119	48
2-1/2"	329	115	455	115	245	74
3"	666	165	719	165	406	105
3-1/2"	1091	220	1091	220	585	140
4"	1668	290	1668	290	840	185
PIPE MATERIAL:	TYPE "L" COPPER		DESIGN FRICTION LOSS:		5	PSI / 100FT

ALLOWABLE WATER SUPPLY VELOCITY SHALL NOT EXCEED 8 FT/S FOR CW & 5 FT/S FOR HW.

PLUMBING FIXTURE SCHEDULE

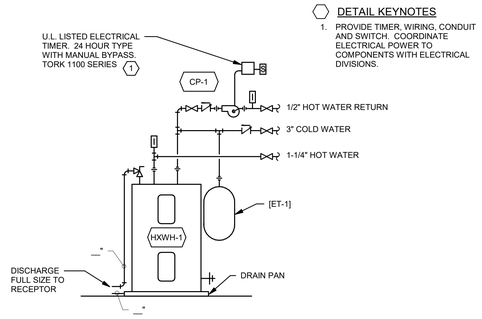
SYMBOL	FIXTURE TYPE	DESCRIPTION	BASIS OF DESIGN MFR	MODEL	ACCESSORIES	CONNECTION W	V	CW	HW	NOTES
EWC-1	DRINKING FOUNTAIN W/ BOTTLE FILLER (ELECTRIC WATER COOLED)	BOTTLE FILLING STATION & INTEGRAL SOFT SIDES NON-FILTERED NON-REFRIGERATED STAINLESS STEEL FOUNTAIN. TO COMPLY WITH 2022 CBC 11B-602.6 WATER FLOW.	ELKAY	EZWS-EDFP217K		1-1/2"	1-1/2"	1/2"	--	VERIFY RIGHT OR LEFT HAND LOW BOWL CONFIGURATION
EWS-1	EMERGENCY SHOWER / EYE WASH	BARRIER FREE, FLOOR MOUNTED, ABS PLASTIC EYE WASH BOWL, SHOWER HEAD, WATER STRAINER FOR EYE WASH	HAWS	8309WC	MIXING VALVE: SEE PLUMBING DEVICES SCHEDULE	1-1/2"	1-1/2"	1-1/4"	1-1/4"	
FD-1	FLOOR DRAIN (FINISHED FLOORS / SHOWERS)	CAST IRON BODY, FLASHING COLLAR, 6-INCH ADJUSTABLE NICKEL BRONZE STRAINER HEAD, TRAP PRIMER	JR SMITH	2005Y-A-06-P050-NB		3""	1-1/2""	PRIMER CONN.	--	
FD-2	FLOOR DRAIN (UNFINISHED FLOORS / MECHANICAL ROOMS)	CAST IRON BODY, FLASHING COLLAR, 8-1/2-INCH ROUND ADJUSTABLE TOP, BAR GRATE, SEDIMENT BUCKET, TRAP PRIMER	JR SMITH	2350Y-P050		3""	1-1/2""	PRIMER CONN.	--	
FS-1	FLOOR SINK	DUCO CAST IRON RECEPTOR WITH SOLID WATER DAM AND SECURED CAST IRON DOME BOTTOM STRAINER	JR SMITH	3960		3""	1-1/2""	PRIMER CONN.	--	
HB-1	HOSE BIBB	EXPOSED, MILD CLIMATE, ANTI-SIPHON, CHROME PLATED, DOUBLE CHECK BACKFLOW PREVENTER	WOODFORD	79		--	--	3/4"	--	LOCATE 24" A.F.F.
HD-1	HUB DRAIN	4-INCH SIZE WITH 8X4 SHORT REDUCER, 8-INCH STANDPIPE - 24-INCHES LONG.	N/A	N/A	P-TRAP WITH TRAP PRIMER	4"	2""	--	--	
L-1	LAVATORY	LUCERNE WALL-HUNG LAVATORY, VITREOUS CHINA, ADA COMPLIANT	AMERICAN STANDARD	0356	FAUCET: AMERICAN STANDARD, COLONY PRO 7075800.002,1.2 GPM, ADA	1-1/2"	1-1/2"	1/2"	1/2"	W/ S-9 LAVATORY HANGER, AND PROVIDE ASSE 1070 MIXING VALVE SET TO 100 F
L-2 ADA	LAVATORY	LUCERNE WALL-HUNG LAVATORY, VITREOUS CHINA, ADA COMPLIANT	AMERICAN STANDARD	0356	FAUCET: AMERICAN STANDARD, COLONY PRO 7075800.002,1.2 GPM, ADA	1-1/2"	1-1/2"	1/2"	1/2"	W/ S-9 LAVATORY HANGER, AND PROVIDE ASSE 1070 MIXING VALVE SET TO 100 F
LS-1	LAUNDRY SINK	DEPENDABILT STAINLESS STEEL 23"x29-13/16"x44-3/4", 16 GAUGE ONE COMPARTMENT SINK W/ STAINLESS STEEL LEGS	ELKAY	1C18X24-0X	FAUCET: ELKAY LK940VS07T6H SERVICE/UTILITY 8" CENTERSET WALL MOUNT FAUCET W/ 7" VENTED SPOUT & 6" WRISTBLADE HANDLES	2"	1-1/2"	1/2"	1/2"	
MS-1	MOP SINK	WHITBY SERVICE SINK, FLOOR MOUNTED, 28"x28"	KOHLER	K-6710	FAUCET: CHICAGO 897-CCP WALL MOUNTED MANUAL FAUCET W/ 8" CETERS	3"	2"	1/2"	1/2"	FAUCET HEIGHT AT 4' ABOVE FLOOR, W/ MOUNTING RIM GUARD
MS-2	MOP SINK	STAINLESS STEEL, FLOOR MOUNTED, 24"x20"x11-1/4", 16 GAUGE	ELKAY	FLR-1X	FAUCET: CHICAGO 897-CCP WALL MOUNTED MANUAL FAUCET W/ 8" CETERS	3"	2"	1/2"	1/2"	FAUCET HEIGHT AT 4' ABOVE FLOOR, W/ MOUNTING RIM GUARD
RHB-1	HOSE BIBB	ROOF, NON-FREEZE, ANTI-SIPHON, AUTOMATIC DRAINING, DOUBLE CHECK BACKFLOW PREVENTER	WOODFORD	SRH-MS		--	--	3/4"	---	
S-1	SINK	LUSTERTONE CLASSIC STAINLESS STEEL 30-1/2"x18-1/2"x43/8" SINGLE BOWL UNDERMOUNT ADA SINK W/ PERFECT DRAIN	ELKAY	ELUHAD28164 5PD	FAUCET: ELKAY LKAV1061 AVADO SINGLE HOLE KITCHEN FAUCET W/ SEMI-PROFESSIONAL SPOUT & FORWARD ONLY LEVER HANDLE	2"	1-1/2"	1/2"	1/2"	ADD AERATOR LIMITER TO 1.0 GPM
S-2	SINK	STAINLESS STEEL 25"x19.5"x10-12" WALL HUNG SINGLE BOWL HAND WASH SINK KIT, ADA COMPLIANT	ELKAY	EWS2520W4C	FAUCET: ELKAY LKAV1061 AVADO SINGLE HOLE KITCHEN FAUCET W/ SEMI-PROFESSIONAL SPOUT & FORWARD ONLY LEVER HANDLE	2"	1-1/2"	1/2"	1/2"	ADD AERATOR LIMITER TO 1.0 GPM
SH-1	SHOWER				SHOWER FAUCET: NIAGARA N2615CH, PRESSURE BALANCING TUB AND SHOWER SYSTEM W/ HANDSPRAY & 24" SLIDE BAR, 1.0 GPM, ADA COMPLIANT	2"	1-1/2"	1/2"	1/2"	PROVIDE WITH OPTIONS AS LISTED IN DESCRIPTION
TD-1	TRENCH DRAIN	MODULAR POLYMER CONCRETE PRE-CAST SECTIONS WITH HEAVY-DUTY LOCK-IN-PLACE FRAME AND GRATE.	JR SMITH	9816	GRATE (HEAVY DUTY - PERFORATED STAINLESS STEEL, HEEL PROOF GRATE WITH QUICKLOCK SECURING FEAUTURE): JR SMITH 9870-465-SSP	4""	2""	PRIMER CONN.	---	
U-1	URINAL	STANDARD HYBRID URINAL, WALL MOUNTED, VITREOUS CHINA	SLOAN	HYB-1000		2"	1-1/2"	3/4"	--	
U-2	URINAL	STANDARD HYBRID URINAL, WALL MOUNTED, VITREOUS CHINA	SLOAN	HYB-1000		2"	1-1/2"	3/4"	--	
WC-1	WATER CLOSET	MADERA FLOWISE 15" HEIGHT ELONGATED FLUSHOMETER TOILET, VITREOUS CHINA LESS EVERCLEAN	AMERICAN STANDARD	2234	SLOAN ROYAL SENSOR FUSHOMETER, SOLIS 8111 SMT-IR-1.1-DFB-T-OR-10-1/2-VB	4"	2"	1"	--	AMERICAN STANDARD 35901.100 WATER CLOSET SEAT, OPEN FRONT, WHITE
WC-2 ADA	WATER CLOSET	MADERA FLOWISE 16-1/2" HEIGHT ELONGATED FLUSHOMETER TOILET, VITREOUS CHINA, W/ EVERCLEAN, ADA COMPLIANT	AMERICAN STANDARD	3461	SLOAN ROYAL SENSOR FUSHOMETER, SOLIS 8111 SMT-IR-1.1-DFB-T-OR-10-1/2-VB	4"	2"	1"	--	AMERICAN STANDARD 35901.100 WATER CLOSET SEAT, OPEN FRONT, WHITE
WH-1	WALL HYDRANT	ENCASED, NON-FREEZE, ANTI-SIPHON, AUTOMATIC DRAINING, CHROME PLATED BOX/DOOR ASSEMBLY, DOUBLE CHECK BACKFLOW PREVENTER	WOODFORD	B67-P	W/ ISOLATION VALVE	--	--	3/4"	--	
WMB-1	WASHING MACHINE OUTLET BOX	ABS BOX/FRAME, NO-LEAD VALVES WITH WATER HAMMER ARRESTORS, 1/2" FEMALE SWEAT CONNECTIONS	SIOUX CHIEF	696-G2313MF		2"	1-1/2"	1/2"	1/2"	

WATER HEATER SCHEDULE

SYMBOL	EQUIPMENT TYPE	LOCATION/ SERVING	BASIS OF DESIGN MFR	MODEL	TANK CAPACITY (GALLONS)	GAS DATA INPUT (MBH)	OUTPUT (MBH)	RECOVERY RATE (GPH)	ELECTRICAL VOLTS	PH	AMPS	WATTS	MAX WT (LBS)	NOTES
HXWH-1	COMMERCIAL WATER HEATER	MECH. RM 102	CEMLINE CORP	V120SPH450-DW	120	0	0	0	115	1	0	0	2000	W/ FLOWS WM-NLCH-050 HOT POTABLE WATER METER

PLUMBING PUMP SCHEDULE

SYMBOL	EQUIPMENT TYPE	LOCATION/ SERVING	BASIS OF DESIGN MFR	MODEL	FLOW RATE (GPM)	HEAD (FT H2O)	RPM	ELECTRICAL VOLTS	PH	Hz	WATTS	HP	NOTES
CP-1	CP-1	MECH. RM 102	GRUNDFOS	UP 43-70	0.00	0.00	0	120	1	60	0		



DETAIL KEYNOTES

1. PROVIDE TIMER, WIRING, CONDUIT AND SWITCH. COORDINATE ELECTRICAL POWER TO COMPONENTS WITH ELECTRICAL DIVISIONS.

1 WALL MOUNTED WATER HEATER

0' 4' 8' 16'

NO SCALE

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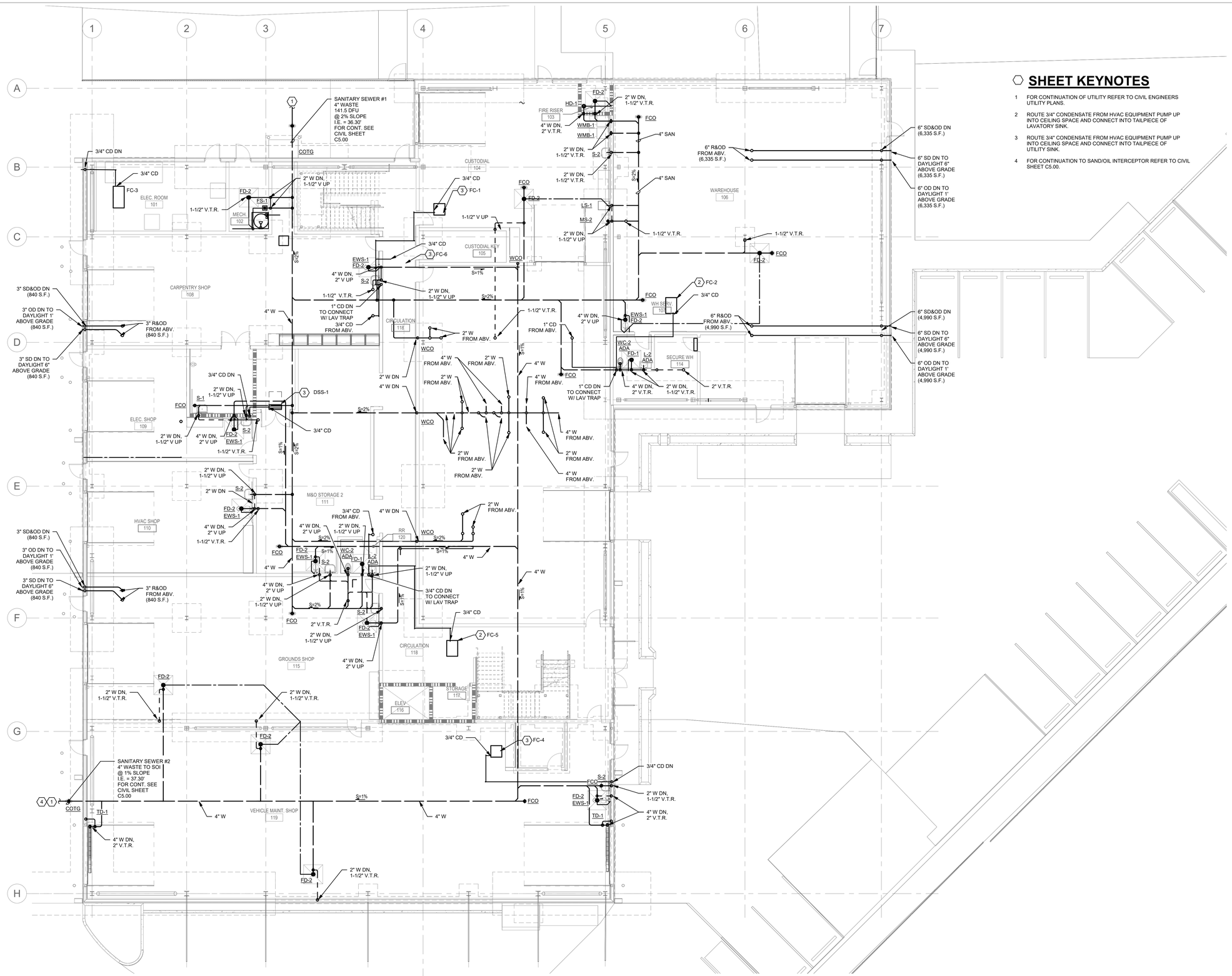

SHEET KEYNOTES

1. FOR CONTINUATION OF UTILITY REFER TO CIVIL ENGINEERS UTILITY PLANS.
2. ROUTE 3/4" CONDENSATE FROM HVAC EQUIPMENT PUMP UP INTO CEILING SPACE AND CONNECT INTO TAILPIECE OF LAVATORY SINK.
3. ROUTE 3/4" CONDENSATE FROM HVAC EQUIPMENT PUMP UP INTO CEILING SPACE AND CONNECT INTO TAILPIECE OF UTILITY SINK.
4. FOR CONTINUATION TO SAND/OIL INTERCEPTOR REFER TO CIVIL SHEET C5.00.

1 GROUND FLOOR PLAN - WASTE AND VENT

0' 4' 8' 16'

1/8" = 1'-0"

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	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
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GROUND FLOOR PLAN - WASTE AND VENT

P2.01

SHEET KEYNOTES

1 ROOFTOP HEATING AND VENTILATION UNIT. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

1 SECOND FLOOR PLAN - WASTE AND VENT

0' 4' 8' 16'

1/8" = 1'-0"

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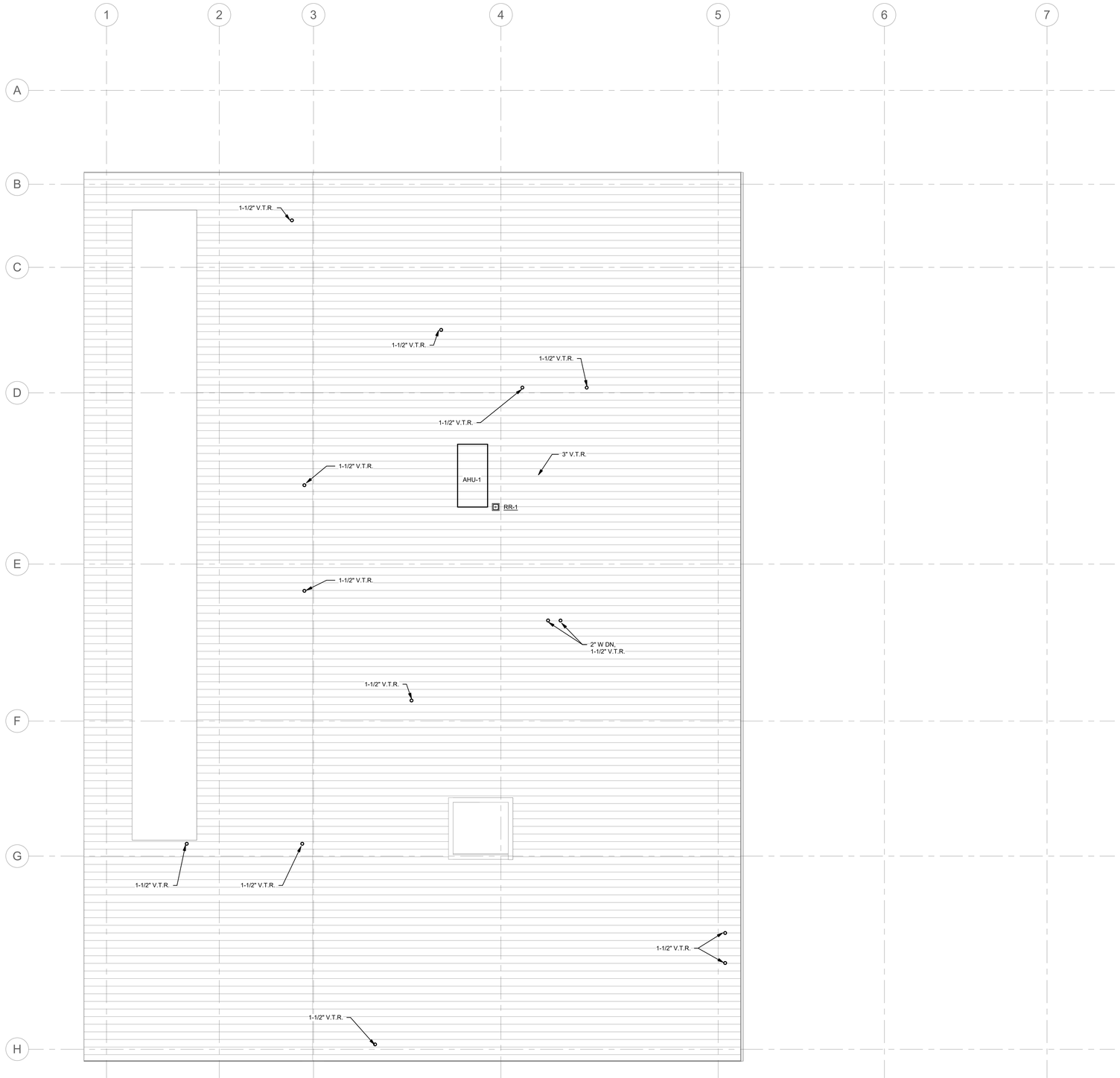
SECOND FLOOR PLAN - WASTE AND VENT

P2.02



SHEET KEYNOTES

1 ROOFTOP COOLING UNIT. PROVIDE CONDENSATE DRAINAGE. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

1 ROOF PLAN - PLUMBING

0' 4' 8' 16'

1/8" = 1'-0"

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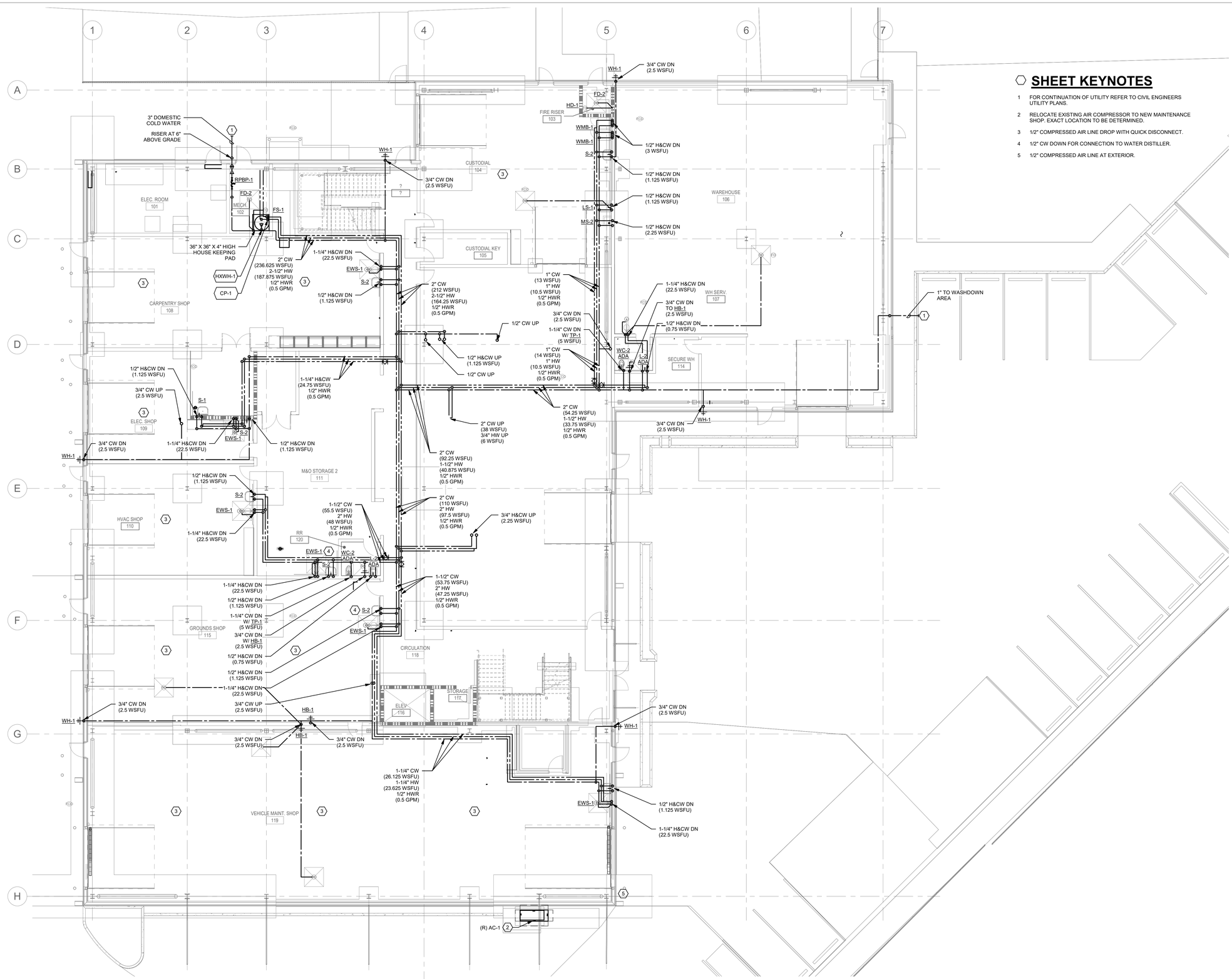
ROOF PLAN - WASTE AND VENT

P2.03



SHEET KEYNOTES

1. FOR CONTINUATION OF UTILITY REFER TO CIVIL ENGINEERS UTILITY PLANS.
2. RELOCATE EXISTING AIR COMPRESSOR TO NEW MAINTENANCE SHOP. EXACT LOCATION TO BE DETERMINED.
3. 1/2" COMPRESSED AIR LINE DROP WITH QUICK DISCONNECT.
4. 1/2" CW DOWN FOR CONNECTION TO WATER DISTILLER.
5. 1/2" COMPRESSED AIR LINE AT EXTERIOR.

1 GROUND FLOOR PLAN - WATER

1/8" = 1'-0"

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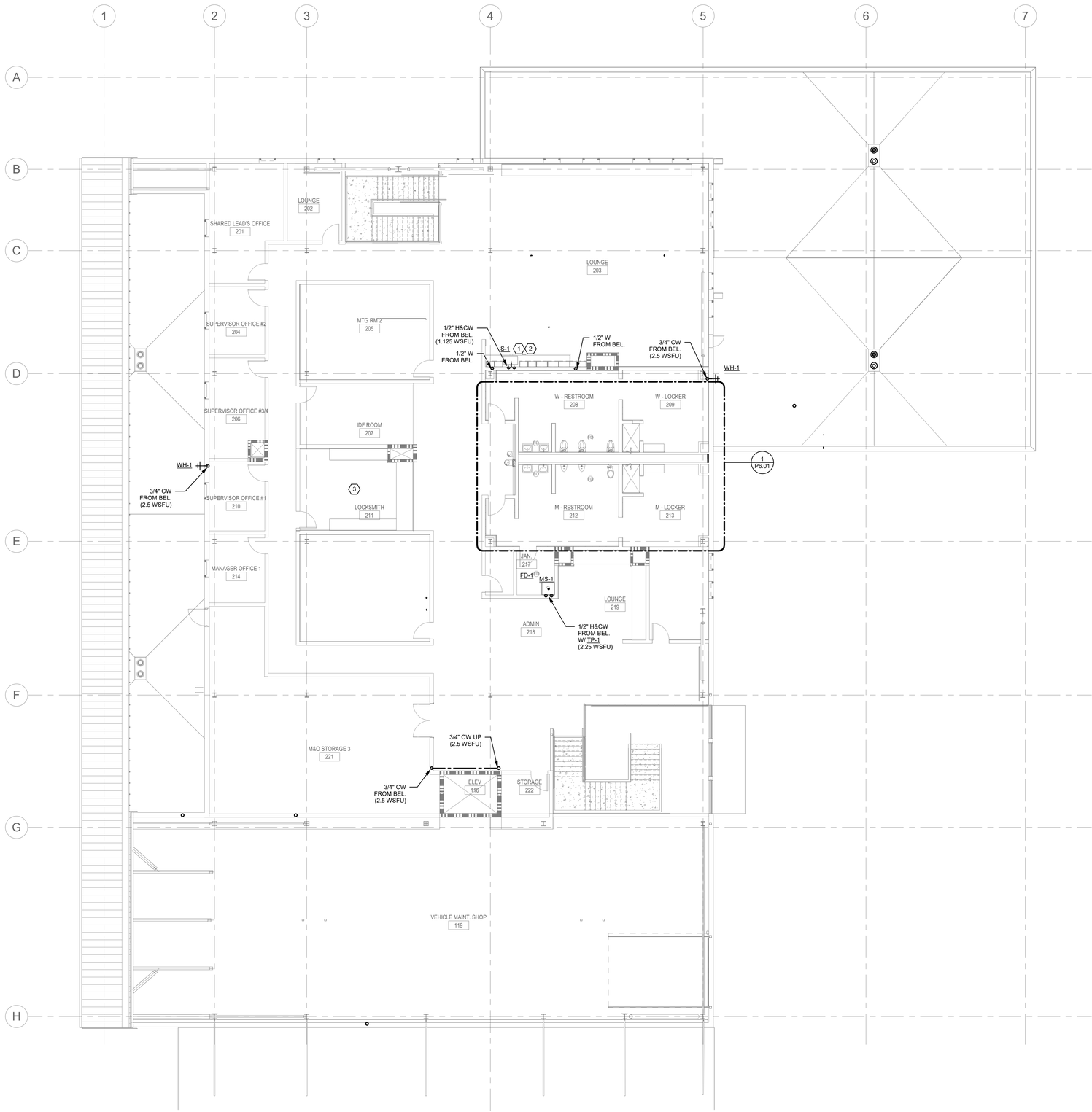
GROUND FLOOR PLAN - WATER

P3.01



SHEET KEYNOTES

1 TEE 1/2" CW FROM SINK FOR CONNECTION TO WATER FILTER STATION.

2 TEE 1/2" HW FROM SINK FOR CONNECTION TO DISHWASHER.

3 1/2" COMPRESSED AIR LINE DROP WITH QUICK DISCONNECT.

1 SECOND FLOOR PLAN - WATER

0' 4' 8' 16'

1/8" = 1'-0"

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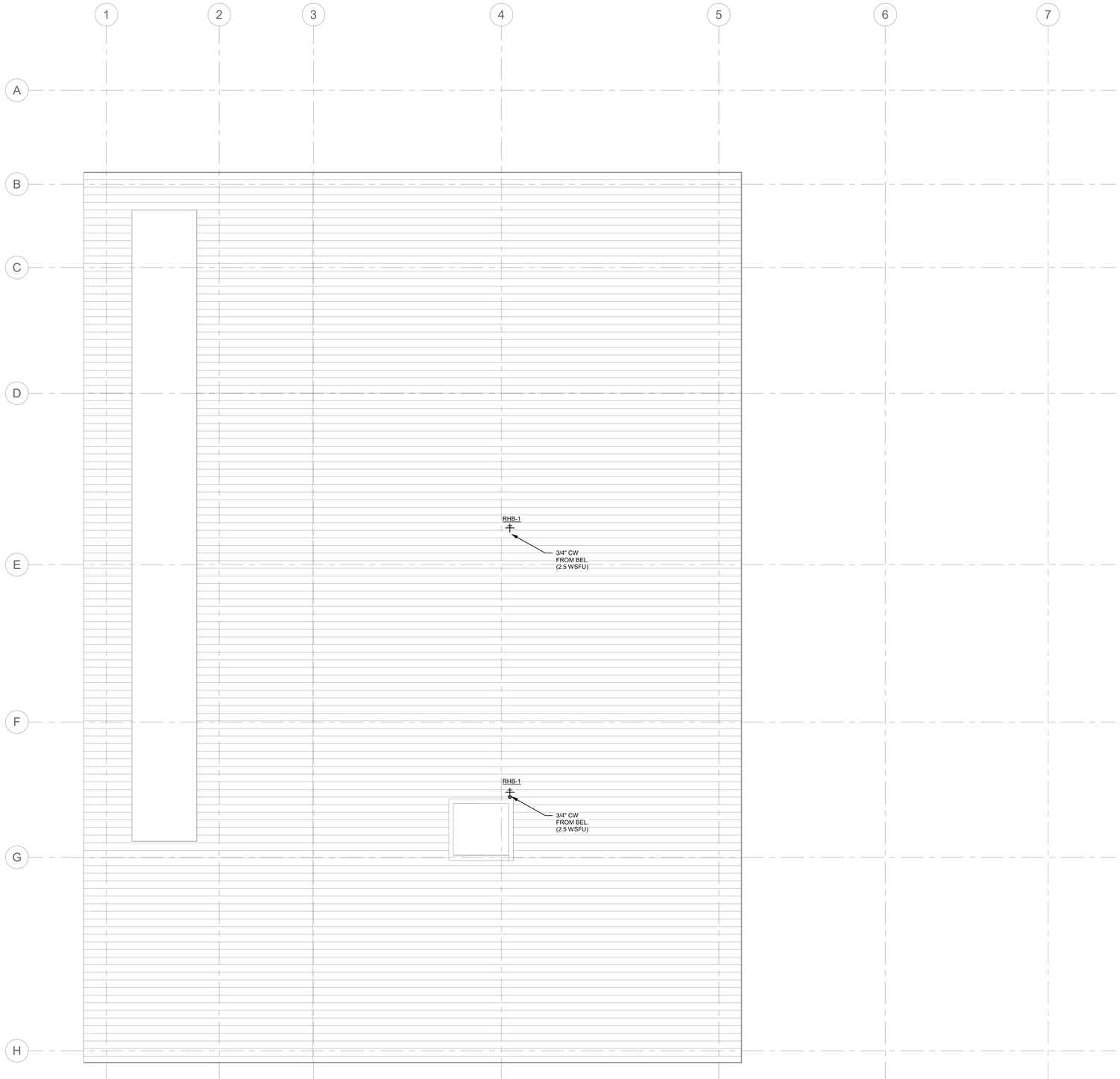
SECOND FLOOR PLAN - WATER

P3.02



1 ROOF PLAN - PLUMBING

0' 4' 8' 16'

1/8" = 1'-0"

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rev	date	issue
2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

REGISTERED PROFESSIONAL ENGINEER
MECHANICAL
STATE OF CALIFORNIA
Exp: 06/30/26

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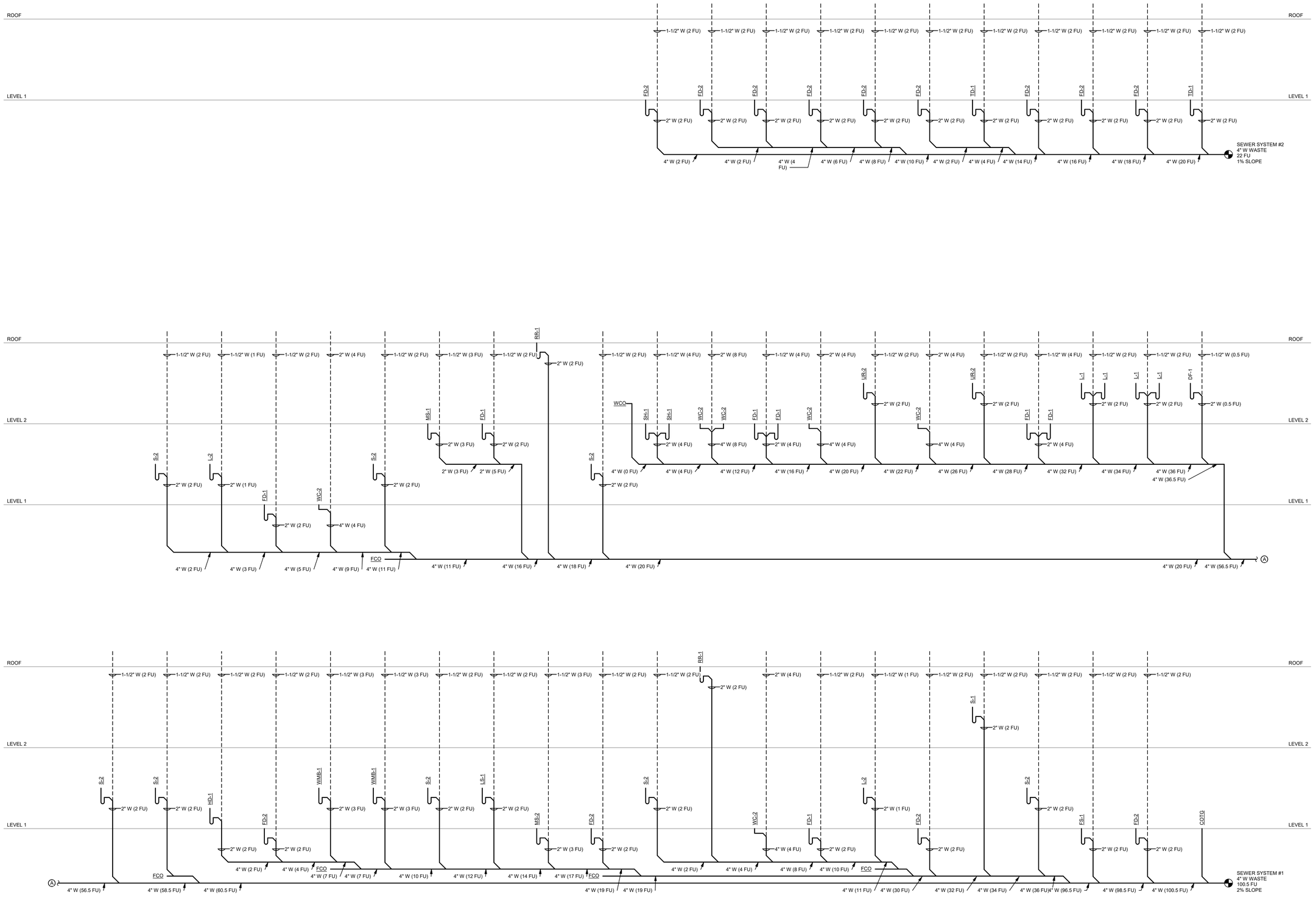
project number: 20-296
date: 12/11/2024

ROOF PLAN - WATER

P3.03



1 WASTE AND VENT LINE DIAGRAM

NO SCALE

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WASTE VENT LINE DIAGRAM

P4.01

1 HOT & COLD WATER LINE DIAGRAM

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	2023.01.18	100% DESIGN DEVELOPMENT
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WATER LINE DIAGRAM

P4.02

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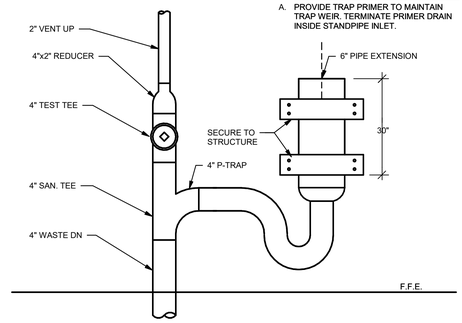
GENERAL DETAIL NOTES

A. PROVIDE TRAP PRIMER TO MAINTAIN TRAP WEIR. TERMINATE PRIMER DRAIN INSIDE STANDPIPE INLET.



6 HUB DRAIN

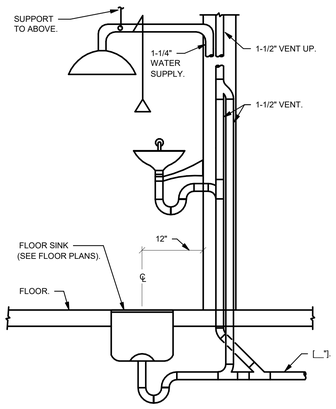
NO SCALE

4 TRENCH DRAIN

12" = 1'-0"

3 FLOOR DRAIN

NO SCALE



2 EMERGENCY EYE WASH DRAIN

NO SCALE

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PLUMBING DETAILS

P5.01

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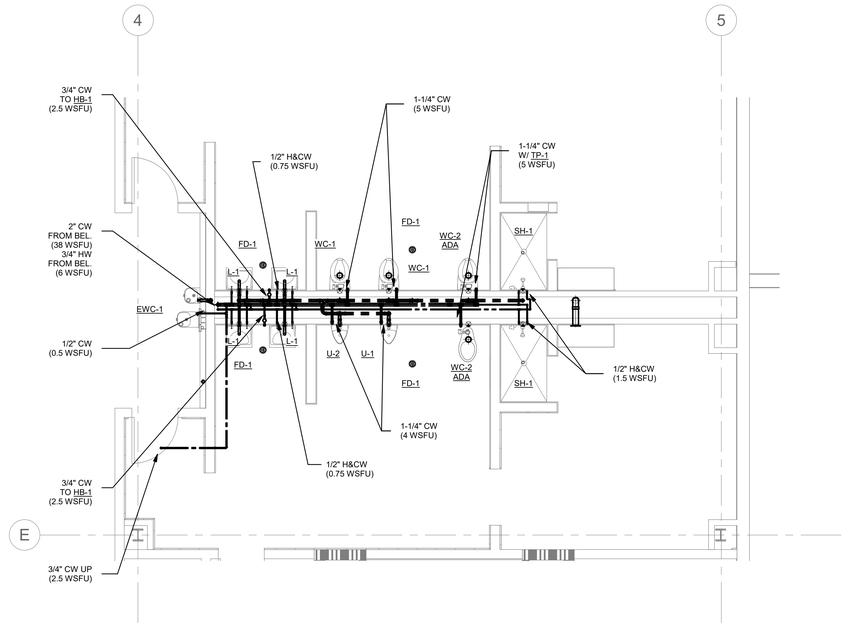

1 SECOND FLOOR LEVEL - RESTROOM ENLARGED PLAN

0' 4' 8' 16'

1/4" = 1'-0"

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date: 12/11/2024

PLUMBING
ENLARGED PLAN

P6.01

FIRE PROTECTION SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

(A)	ABANDON IN PLACE
AFF	ABOVE FINISHED FLOOR
AS	AUTOMATIC SPRINKLER
BOB	BOTTOM OF BEAM
BOD	BOTTOM OF DECK
BOP	BOTTOM OF PIPE
BOR	BOTTOM OF RISER
BV	BUTTERFLY VALVE
C	CENTER LINE
CV	CHECK VALVE
(D)	DEMOLITION
DSA	DIVISION OF THE STATE ARCHITECT
DDCV	DOUBLE DETECTOR CHECK VALVE ASSEMBLY
DN	DROP NIPPLE
EL	ELEVATION
(E)	EXISTING
EC	EXTENDED COVERAGE
F	FAHRENHEIT
FT	FEET
FF	FINISHED FLOOR
FDC	FIRE DEPARTMENT CONNECTION
FHC	FIRE HOSE CABINET
FHS	FIRE HOSE STATION
FFL	FLOOR FLANGE
FS	FLOW SWITCH
(F)	FUTURE
GPM	GALLONS PER MINUTE
GV	GATE VALVE
G	GRADE
H	HANGER
HSW	HORIZONTAL SIDE WALL
HV	HOSE VALVE
IN	INCHES
ID	INSIDE DIAMETER
MAX	MAXIMUM
MIN	MINIMUM
(N)	NEW
N&C	NIPPLE AND CAP
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NO	NUMBER
OBJ	OPEN BAR JOIST
OD	OUTSIDE DIAMETER
OS & Y	OUTSIDE SCREW & YOKE
PIV	POST INDICATOR VALVE
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SWITCH
(R)	RELOCATE/RELOCATED LOCATION
RN	RISER NIPPLE
RM	ROOF MANIFOLD
SOV	SHUT OFF VALVE
SF	SQUARE FEET
SSP	STANDARD SPRAY PENDENT
SSU	STANDARD SPRAY UPRIGHT
SP	STANDPIPE
SB	SWAY BRACE
TS	TAMPER SWITCH
TOB	TOP OF BEAM
TOP	TOP OF PIPE
TOR	TOP OF RISER
TOS	TOP OF STEEL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE

Control

- BELL/GONG
- CONTROL PANEL
- FLOW DETECTION SWITCH
- MONITOR SWITCH
- PRESSURE GAUGE
- TAMPER DETECTOR
- WATER MOTOR ALARM

General

- CONTINUATION
- DETAIL NUMBER AND SHEET LOCATION
- XX-X LOCATION — EQUIPMENT IDENTIFICATION
- XX — FOOD SERVICE EQUIPMENT / CALCULATION TAG
- X — KEYED NOTE
- PIPE OR CONDUIT BELOW GRADE
- POINT OF CONNECTION
- SECTION NUMBER AND SHEET LOCATION
- DEMOLISH
- DEMOLISH (DASH-DOT)
- EXISTING WORK
- NEW WORK

Miscellaneous

- 2-WAY SWAY BRACE
- 4-WAY SWAY BRACE
- AUXILIARY DRAIN
- H1 — BRANCHLINE RESTRAINT (TEXT INDICATES TYPE)
- COUPLING
- DRY HOSE STATION
- 14'-0" — ELEVATION ABOVE FINISHED FLOOR
- FLANGED COUPLING
- FLEX — FLEXIBLE COUPLING
- GROOVED CAP
- GROOVED COUPLING
- H1 — HANGER (TEXT INDICATES TYPE)
- HYDRAULIC CALCULATION NODE
- RISER
- SCREWED CAP
- SCREWED PLUG
- UNION
- WET HOSE STATION

Valves

- ALARM CHECK VALVE, ELEVATION VIEW
- ALARM CHECK VALVE, PLAN VIEW
- ANGLE VALVE
- CHECK VALVE
- DELUGE VALVE
- DRY VALVE
- INDICATING BUTTERFLY VALVE
- NON-RISING STEM VALVE
- PREACTION VALVE
- DDCVA — SPRINKLER DOUBLE DETECTOR CHECK VALVE ASSEMBLY
- VALVE WITH TAMPER SWITCH

Water Service

- DOUBLE CHECK BACKFLOW PREVENTER
- FIRE DEPARTMENT CONNECTION
- FCA — FLOOR CONTROL ASSEMBLY
- FREE STANDING F.D. CONNECTION
- O.S.&Y. VALVE
- POST INDICATOR VALVE
- PRIVATE DOUBLE HOSE HYDRANT
- PRIVATE SINGLE HOSE HYDRANT
- PUBLIC DOUBLE HOSE HYDRANT
- PUBLIC DOUBLE HOSE HYDRANT W/ PUMPER
- REDUCED PRESSURE BACKFLOW PREVENTER
- STANDPIPE WITH HOSE CONNECTION
- THRUST BLOCK
- VALVE IN PIT
- WALL HYDRANT

HAZARD CLASSIFICATIONS

OCCUPANCY	DESCRIPTION	MAX SPRINKLER SPACING	DESIGN DENSITY	REMOTE AREA
LIGHT HAZARD	VESTIBULES, HALLS, RESTROOMS, OFFICES, COMPUTER LABS, TELECOMMUNICATION ROOMS, EVES AND OVERHANGS WITH COMBUSTIBLE CONSTRUCTION AND NO COMBUSTIBLE BENEATH, LIBRARIES WITH SMALL STACK AREAS.	225 SQ FT	0.10 GPM/SQ FT	1500 SQ FT
ORDINARY HAZARD GROUP 1	ELECTRICAL ROOMS, MECHANICAL ROOMS, JANITORS CLOSEST, LAUNDRY ROOMS	130 SQ FT	0.15 GPM/SQ FT	1500 SQ FT
ORDINARY HAZARD GROUP 2	MAKERSPACE, GROUNDS SHOP, VEHICLE MAINTENANCE SHOP, ELECTRIC SHOP, CARPENTRY SHOP	130 SQ FT	0.20 GPM/SQ FT	1500 SQ FT

SPRINKLER HEAD LEGEND

SYMBOL	DESCRIPTION	MODEL NO.	K-FACTOR	ORIFICE SIZE	RESPONSE	TEMP	COVERAGE	FINISH	ESCHUTCHEON	COUNT	COMMENTS
⊠	UPRIGHT SPRINKLER W/GUARD	V2704	5.6	1/2"	Quick	200	Standard	Metal-Victaulic-Brass		34	
◎	UPRIGHT SPRINKLER	V2704	5.6	1/2"	Quick	200	Standard	Metal-Victaulic-Brass		180	
⍒	HORIZONTAL SIDEWALL SPRINKLER	V2709-R	5.6	1/2"	Quick	155	Standard	Metal-Victaulic-White		11	
●	PENDENT SPRINKLER (GYPSUM)	V2708	5.6	1/2"	Quick	155	Standard	Metal-Victaulic-White		17	
◉	PENDENT SPRINKLER (ACT)	V2708	5.6	1/2"	Quick	155	Standard	Metal-Victaulic-White		65	

TOTAL SPRINKLERS: 307

GENERAL FIRE PROTECTION NOTES

A. CARRY OUT ALL WORK IN ACCORDANCE WITH CBC (2022 EDITION), NFPA 13 (2022 EDITION), AND REQUIREMENTS OF THE STATE OF CALIFORNIA DSA (DIVISION OF THE STATE ARCHITECT). SHOULD ANY CONDITIONS DEVELOP WHICH ARE NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH 2022 CBC, SUBMIT REVISIONS TO AND OBTAIN APPROVAL FROM DSA PRIOR TO PROCEEDING WITH THE WORK.

B. PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF LATEST ADOPTED EDITIONS OF TITLE 22, CALIFORNIA CODE OF REGULATIONS AND TITLE 24.

C. ALL ADDENDA AND CONSTRUCTION CHANGE DIRECTIVES (CCD) SHALL BE SIGNED BY THE ARCHITECT / ENGINEER OF RECORD. THE RESPONSIBLE ENGINEER(S), THE OWNER, AND THE CONTRACTOR PRIOR TO SUBMITTING FOR APPROVAL TO DSA.

D. RESPONSIBILITIES OF ARCHITECT/ENGINEER OF RECORD AND CONSULTANTS, PROJECT INSPECTOR, AND GENERAL CONTRACTOR SHALL BE IN ACCORDANCE WITH C.C.R. TITLE 24, PART 1, SECTIONS 7-141, 7-145, 7-143. VERIFIED REPORTS OF THE CONSTRUCTION ARE REQUIRED BY C.C.R. TITLE 24, PART 1, SECTION 7-151.

E. NO WORK SHALL COMMENCE AT THE PROJECT SITE BEFORE THE BUILDING PERMIT IS FULLY EXECUTED WITH THE START DATE ENTERED AND SIGNED BY THE OWNER, AND GENERAL CONTRACTOR, AND AVAILABLE FOR POSTING AT JOBSITE.

F. CONFORM TO THE FOLLOWING CODES AND STANDARDS, AS APPLICABLE:

a. CALIFORNIA CODE OF REGULATIONS TITLE 8 - INDUSTRIAL REGULATIONS (CHAPTER 1).
b. CALIFORNIA CODE OF REGULATIONS TITLE 17 - PUBLIC HEALTH (CHAPTER 7).
c. CALIFORNIA CODE OF REGULATIONS TITLE 19 - PUBLIC SAFETY.
d. CALIFORNIA CODE OF REGULATIONS TITLE 21 - PUBLIC WORKS.
e. CALIFORNIA CODE OF REGULATIONS TITLE 22 - SOCIAL SECURITY.
f. CALIFORNIA CODE OF REGULATIONS TITLE 24 - PARTS 2, 3, 4, 5, AND 9.
g. CALIFORNIA CODE OF REGULATIONS TITLE 24 - ENERGY INSULATION STANDARDS.
h. 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC) - PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
i. 2022 CALIFORNIA BUILDING CODE (CBC, - PART 1, TITLE 24, CCR.
j. 2022 CALIFORNIA BUILDING CODE (CBC) - PART 2, TITLE 24, CCR.
k. 2022 CALIFORNIA ELECTRICAL CODE (CEC) - PART 3, TITLE 24, CCR.
l. 2022 CALIFORNIA MECHANICAL CODE (CMC) - PART 4, TITLE 24, CCR.
m. 2022 CALIFORNIA PLUMBING CODE (CPC) - PART 5, TITLE 24, CCR.
n. 2022 CALIFORNIA FIRE CODE (CFC) - PART 9, TITLE 24, CCR.

G. UNLESS OTHERWISE STATED, IT IS INTENDED THAT THE ABOVE CODES AND REGULATIONS REFER TO THE LATEST EDITION OR REVISION IN EFFECT ON THE DATE OF THE CONTRACT. NOTHING ON THE DRAWING IS TO BE CONSTRUED AS REQUIRING OR PERMITTING WORK THAT IS CONTRARY TO THE ABOVE LISTED CODES AND REGULATIONS, OR OTHER LOCAL, STATE OR FEDERAL CODES OR REGULATIONS WHICH MAY BE APPLICABLE.

H. COMPLETELY FLUSH UNDERGROUND MAINS AND LEAD-IN CONNECTIONS TO SYSTEM RISERS BEFORE CONNECTION IS MADE TO OVERHEAD SPRINKLER PIPING IN ACCORDANCE WITH 2022 NFPA 13, SECTION 6.10.2.1.1.

I. PROVIDE FLOW TEST DATA AND INDICATE THE LOCATIONS AND HEIGHT ELEVATIONS OF THE TEST AND RESIDUAL FLOW HYDRANTS. DATA MUST BE NO MORE THAN 6 MONTHS OLD AND PROVIDE INFORMATION ABOUT AVAILABLE WATER AT THE SITE. INFORMATION MAY COME FROM THE LOCAL WATER PURVEYOR, UTILITIES COMPANY, OR LOCAL FIRE DEPARTMENT.

J. PROVIDE A COPY OF COMPLETED AND SIGNED "CONTRACTOR'S MATERIALS AND TEST CERTIFICATE FOR UNDERGROUND PIPING" IN ACCORDANCE WITH 2022 NFPA 13, SECTION 6.10.1.

K. HYDROSTATICALLY TEST PIPING AND ATTACHED APPURTENANCES SUBJECTED TO SYSTEM WORKING PRESSURE IN ACCORDANCE WITH 2022 NFPA 13, SECTION 6.10.2.2.1.

L. PROVIDE SPARE SPRINKLER HEAD CABINET, SPRINKLER WRENCH, AND SPARE SPRINKLERS IN ACCORDANCE WITH 2022 NFPA 13, SECTION 16.2.7.

M. PROVIDE RESTRAINT AGAINST EXCESSIVE VERTICAL AND LATERAL MOVEMENT FOR BRANCHLINES IN ACCORDANCE WITH 2022 NFPA 13, SECTION 18.6.3.

N. TEST THE SPRINKLER FLOW SWITCH TO CONFIRM THAT AN AUDIBLE ALARM WILL SOUND NO MORE THAN 5 MINUTES AFTER INITIAL FLOW IN ACCORDANCE WITH 2022 NFPA 13, SECTION 29.2.3.1.

O. TEST CONNECTIONS TO PROTECTED PREMISES AND SUPERVISING STATION FIRE ALARM SYSTEMS IN ACCORDANCE WITH 2022 CBC, SECTION 904.4.3.

P. PROVIDE SIGNAGE IN ACCORDANCE WITH 2022 NFPA 13, SECTION 16.12.5.8.

Q. PROVIDE A 10 INCH OUTSIDE ALARM BELL CONNECTED TO THE FLOW SWITCH FOR EACH RISER IN ACCORDANCE WITH 2022 NFPA 13, SECTION 7.7 AND 2022 CBC, SECTION 903.4.2.

R. PROVIDE A SELF-ADHESIVE LABEL ON THE FIRE DEPARTMENT CONNECTION OR ON THE RISER FOR FIRE SPRINKLER SYSTEMS IN ACCORDANCE WITH TITLE 19 ARTICLE 906(A).

S. PROVIDE A PERMANENT SIGN IDENTIFYING EACH HYDRAULICALLY DESIGNED SPRINKLER SYSTEM ON EACH SYSTEM RISER IN ACCORDANCE WITH 2022 NFPA 13, SECTION 29.4.

T. PROVIDE COMPLETED AND SIGNED CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR THE ABOVEGROUND PIPING IN ACCORDANCE WITH 2022 NFPA 13, FIGURE A.29.1. SUBMIT TO THE PROJECT INSPECTOR

U. BRACING CALCULATIONS WERE PERFORMED USING THE INFORMATION IN 2022 NFPA 13 , CHAPTER 18 AND 2022 CBC, 1616 A.1.26 AND CHAPTER 35. Cp=0.87 FOR THIS SITE. SEE S100 FOR Ss VALUE INDICATED AS 1.859 WHICH EQUATED TO A 0.87 Cp.

V. PROVIDE 36-INCH OR 48-INCH FLEXIBLE SPRINKLER CONNECTIONS ON ALL SPRINKLER INSTALLED AT SUSPENDED CEILINGS. LENGTH DEPENDENT ON ELEVATION OF BRANCH LINE AND SUSPENDED CEILING.

SCOPE OF WORK

PROVIDE A NEW WET PIPE FIRE SPRINKLER SYSTEM EQUIPPED THROUGHOUT THE BUILDING IN ACCORDANCE WITH NFPA 13 (2022 EDITION), CALIFORNIA FIRE CODE (2022 EDITION) WITH LOCAL AMENDMENTS, AND THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ).

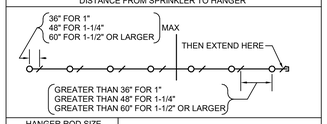
THE BUILDING IS CONSIDERED TYPE IIB OBSTRUCTED NONCOMBUSTIBLE CONSTRUCTION.

MAXIMUM DISTANCE BETWEEN HANGERS (FT-IN)

STEEL PIPE	NOMINAL PIPE SIZE (IN)							
	1	1-1/4	1-1/2	2	2-1/2	3	4	6
	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0

FOR STEEL PIPE, THE MAXIMUM LENGTH FOR UNSUPPORTED ARMOVER SHALL BE 2'-0", WHEN PRESSURE EXCEEDS 100 PSI, UNSUPPORTED LENGTH SHALL BE 1'-0".

DISTANCE FROM SPRINKLER TO HANGER



HANGER ROD SIZE	
PIPE SIZE	DIA. OF ROD
UP TO AND INCLUDING 4"	3/8"
6" AND 8"	1/2"

NOTE: TYPICAL TICK MARKS AS SHOWN ON PIPING PLAN MAY NOT REFLECT ACTUAL FIELD INSTALLATION. FINAL HANGER INSTALLATION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13 CHAPTER 9.

MAXIMUM SPACING (ft)(m) OF STEEL PIPE RESTRAINTS

PIPE	SEISMIC COEFFICIENT, Cp = 0.87			
(in.) (mm)	Cp ≤ .49	.5 < Cp ≤ .71	.71 < Cp ≤ 1.40	Cp ≥ 1.40
1 (25)	43 (13.1)	36 (11.0)	26 (7.9)	22 (6.7)
1-1/4 (32)	46 (14.0)	39 (11.9)	27 (8.2)	24 (7.3)
1-1/2 (40)	49 (14.9)	41 (12.5)	29 (8.8)	25 (7.6)
2 (50)	53 (16.1)	45 (13.7)	31 (9.4)	27 (8.2)

SANDIS — CIVIL ENGINEERS STRUCTURAL ENGINEERS PLANNERS

Project No: 618201.F — Page 1 of 3

FIRE HYDRANT FLOW TEST RESULTS

for
Chabot M+O
Chabot College
Hayward, CA

Prepared By:
SANDIS
636 9th Street
Oakland, CA 94607
(510) 873-8866
Friday, April 26, 2024

Available Flow @ 20 PSI Residual Pressure Calculation
$Q20=(Q^*)(STATIC-20)/(STATIC-RESIDUAL)^{(1.54)}$

TEST 1: Run flow test at Hydrant 3800
Test Start 10:01:00 AM

Hydrant	Location	Elevation (ft)	Gauge	Static Pressure (PSI)	Residual Pressure (PSI)	Observed Flow (GPM)
3800	North of Bldg 3800	36.9	-	90	71	1340
J	East of Bldg 2700	39.8	-	92	80	-
D	SW Corner Bldg 2900	42.1	50251	87	62	-
G	West of Bldg 800	41.4	50253	90	73	-
O	North of Bldg 1400	43.6	59117	88	77	-
K	North of Bldg 400	43.8	50257	85	70	-

Hydrant 3800 - Available Flow @ 20 PSI
Q_{20} = 2710 GPM
Hydrant K - Available Flow @ 20 PSI
Q_{20} = 2953 GPM

TEST 2: Run flow test at Hydrant I
Test Start 10:18:00 AM

Hydrant	Location	Elevation (ft)	Gauge	Static Pressure (PSI)	Residual Pressure (PSI)	Observed Flow (GPM)
I	NW corner of Lot B	41.6	-	92	70	1230
J	East of Bldg 2700	39.8	-	94	80	-
D	SW Corner Bldg 2900	42.1	50251	94	65	-
G	West of Bldg 800	41.4	50253	96	77	-
O	North of Bldg 1400	43.6	59117	95	88	-
K	North of Bldg 400	43.8	50257	92	73	-

Hydrant I - Available Flow @ 20 PSI
Q_{20} = 2333 GPM

SANDIS — CIVIL ENGINEERS STRUCTURAL ENGINEERS PLANNERS

Project No: 618201.F — Page 2 of 3

FIRE HYDRANT FLOW TEST RESULTS

TEST 3: Run flow test at Hydrant E
Test Start 10:27:00 AM

Hydrant	Location	Elevation (ft)	Gauge	Static Pressure (PSI)	Residual Pressure (PSI)	Observed Flow (GPM)
E	West Side Bldg 2900	41.7	-	92	72	1220
D	SW Corner Bldg 2900	42.1	50251	92	63	-
G	West of Bldg 800	41.4	50253	96	75	-
O	North of Bldg 1400	43.6	59117	94	80	-
K	North of Bldg 400	43.8	50257	91	72	-

Hydrant E - Available Flow @ 20 PSI
Q_{20} = 2436 GPM

TEST 4: Run flow test at Hydrant D
Test Start 10:32:00 AM

Hydrant	Location	Elevation (ft)	Gauge	Static Pressure (PSI)	Residual Pressure (PSI)	Observed Flow (GPM)
D	SW Corner Bldg 2900	42.1	-	93	62	1300
E	West Side Bldg 2900	41.7	-	91	78	-
G	West of Bldg 800	41.4	50253	98	75	-
O	North of Bldg 1400	43.6	59117	96	78	-
K	North of Bldg 400	43.8	50257	92	72	-

Hydrant D - Available Flow @ 20 PSI
Q_{20} = 2048 GPM
Hydrant E - Available Flow @ 20 PSI
Q_{20} = 3252 GPM

TEST 5: Run flow test at Hydrant C
Test Start 10:46:00 AM

Hydrant	Location	Elevation (ft)	Gauge	Static Pressure (PSI)	Residual Pressure (PSI)	Observed Flow (GPM)
C	West of CUP	39.8	-	92	66	1270
A	West of Bldg 1800	36.9		94	75	-
D	SW Corner Bldg 2900	42.1	50251	93	63	-
G	West of Bldg 800	41.4	50253	95	69	-
O	North of Bldg 1400	43.6	59117	93	76	-
K	North of Bldg 400	43.8	50257	91	70	-

Hydrant A - Available Flow @ 20 PSI
Q_{20} = 2646
Hydrant D - Available Flow @ 20 PSI
Q_{20} = 2044

SHEET INDEX

FP0.01	SYMBOL LIST AND GENERAL NOTES - FIRE PROTECTION
FP1.01	SITE PLAN - FIRE PROTECTION
FP2.01	GROUND FLOOR PLAN - FIRE PROTECTION
FP2.02	SECOND FLOOR PLAN - FIRE PROTECTION
FP3.01	ENLARGED PLANS AND SECTIONS - FIRE PROTECTION
FP3.02	ENLARGED PLANS AND SECTIONS - FIRE PROTECTION
FP4.01	DETAILS - FIRE PROTECTION
FP4.02	DETAILS - FIRE PROTECTION

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	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

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project number: 20-296
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SYMBOL LIST AND GENERAL NOTES - FIRE PROTECTION

FP0.01

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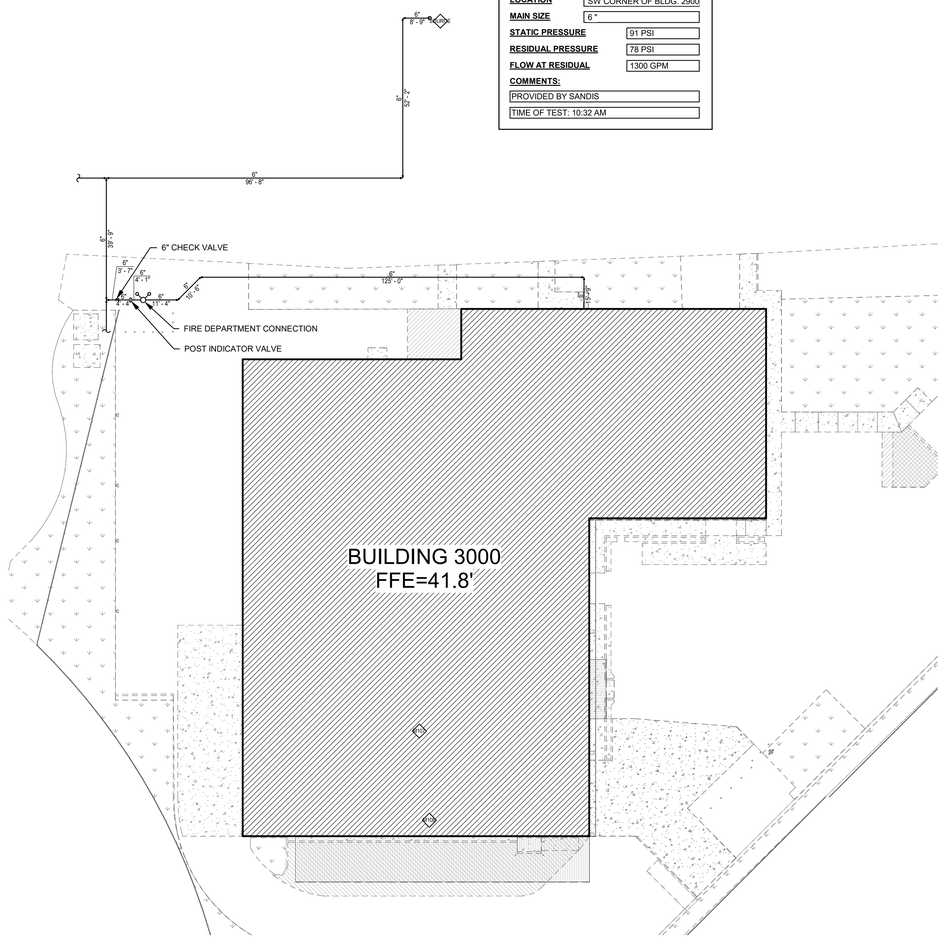
GENERAL SHEET NOTES

A. SITE PLAN IS SHOWN FOR SITE INFORMATION PURPOSES ONLY. FIRE PROTECTION OVERHEAD SYSTEM SCOPE OF WORK TO START 5' OUT FROM BUILDING. ALL OTHER SITE WORK IS BY CIVIL. REFER TO CIVIL SHEET C.400 FOR CONTINUATION AND ADDITIONAL SITE RELATED WORK.

WATER FLOW INFORMATION

DATE OF REPORT/TEST	04/26/2024
LOCATION	SW CORNER OF BLDG. 2900
MAIN SIZE	6 "
STATIC PRESSURE	91 PSI
RESIDUAL PRESSURE	78 PSI
FLOW AT RESIDUAL	1300 GPM
COMMENTS:	
PROVIDED BY SANDIS	
TIME OF TEST: 10:32 AM	



1 SITE PLAN - FIRE PROTECTION

0' 20' 40'

1" = 20'-0"

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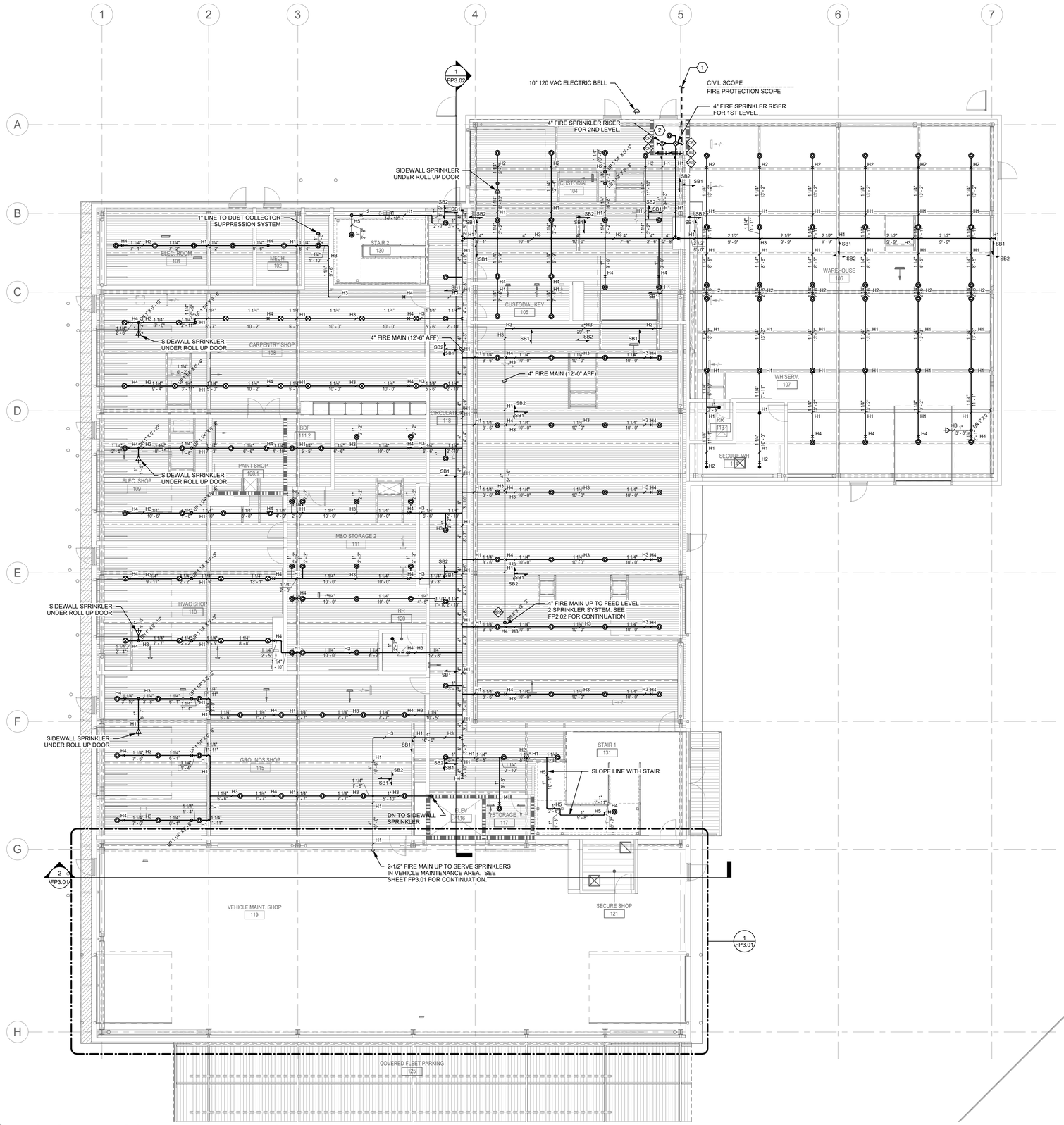
SITE PLAN - FIRE PROTECTION

FP1.01



SHEET KEYNOTES

1. 6-INCH INCOMING FIRE LINE. SEE CIVIL FOR CONTINUATION. CHECK VALVE, GATE VALVE, POST INDICATOR VALVE (PIV), AND FIRE DEPARTMENT CONNECTION (FDC) LOCATED ON SITE BY CIVIL.
2. SEE RISER DETAIL 6, SHEET FP4.01.

1 GROUND FLOOR PLAN - FIRE PROTECTION

1/8" = 1'-0"

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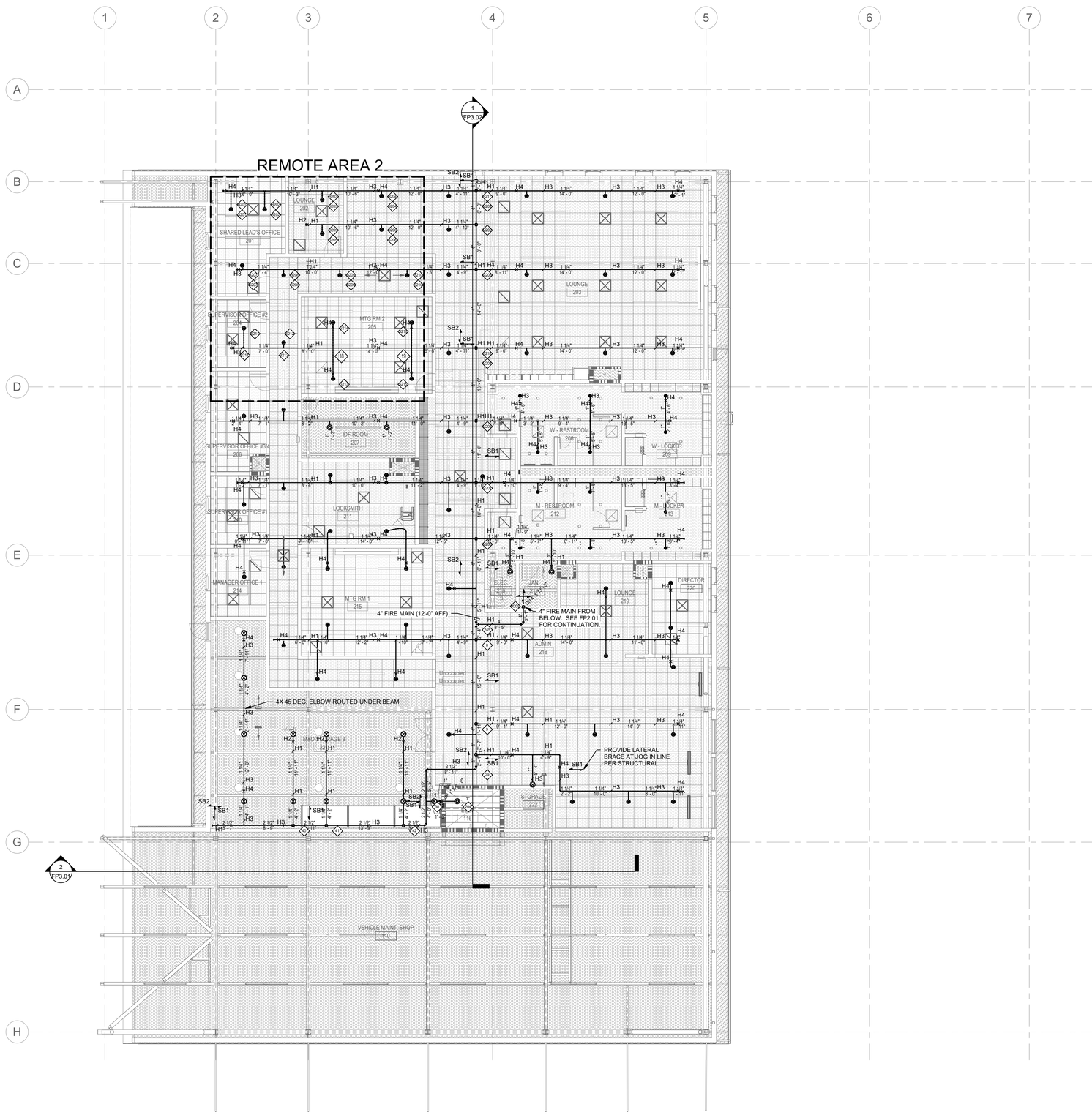
GROUND FLOOR PLAN - FIRE PROTECTION

FP2.01



Hydraulic Information	
Remote Area Name	REMOTE AREA 2
Remote Area Size	1520 SF
Occupancy Classification	Light Hazard
Density	0.10 GPM/SF
K-Factor	5.6
Flowing Heads	16 @ 17
Head Coverage	
Flow at Base of Riser	363.90 GPM
Pressure at Base of Riser	67.62 PSI
Flow at Source	463.90 GPM
Pressure at Source	72.41 PSI
Total Hose Streams	100.00 GPM
Safety Margin	+16.66 (18.71%)
Comments:	
NFPA 13 - 2022	

1 SECOND FLOOR PLAN - FIRE PROTECTION

0' 4' 8' 16'

1/8" = 1'-0"

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SECOND FLOOR PLAN - FIRE PROTECTION

FP2.02

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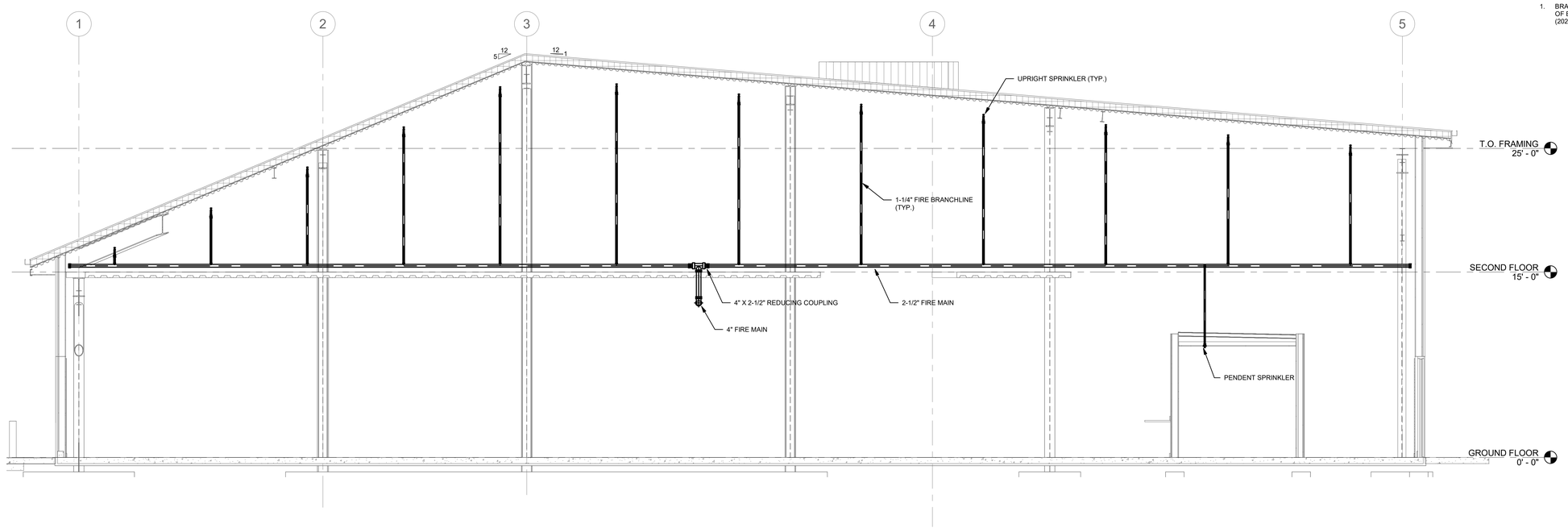
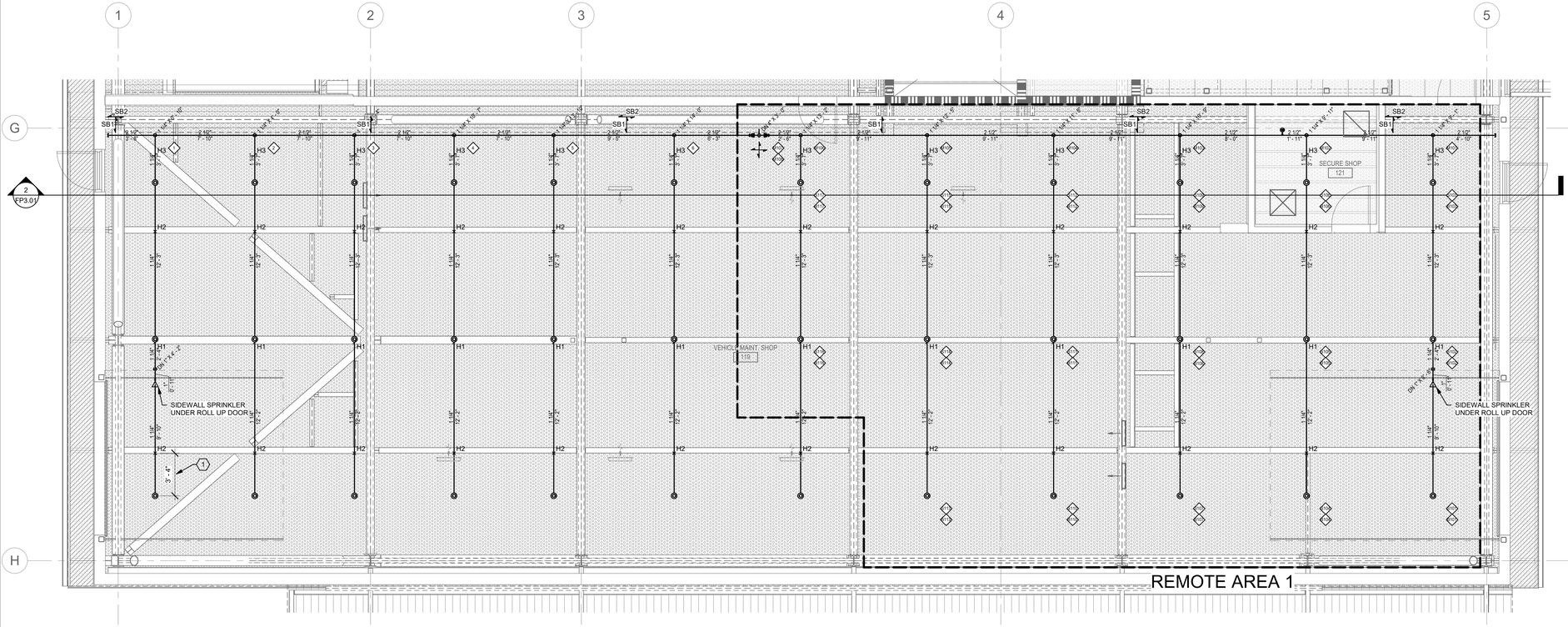
SHEET KEYNOTES

1. BRANCHLINE RESTRAINT IS LOCATED WITHIN 48" OF END OF LINE IN ACCORDANCE WITH NFPA 13 (2022 EDITION), SECTION 18.6.3.1.



2 VEHICLE MAINTENANCE SHOP SECTION - FIRE PROTECTION

0' 2' 4' 8'
1/4" = 1'-0"



Hydraulic Information	
Remote Area Name	REMOTE AREA 1
Remote Area Size	1989 SF
Occupancy Classification	Ordinary Group II
Density	0.20 GPM/SF
K-Factor	5.6
Flowing Heads	17 @ 19.93
Head Coverage	
Flow at Base of Riser	447.34 GPM
Pressure at Base of Riser	66.72 PSI
Flow at Source	697.34 GPM
Pressure at Source	72.60 PSI
Total Hose Streams	250.00 GPM
Safety Margin	+14.29 (16.45%)
Comments:	
NFPA 13 -	

1 ENLARGED VEHICLE MAINTENANCE SHOP PLAN - FIRE PROTECTION

0' 2' 4' 8'
1/4" = 1'-0"

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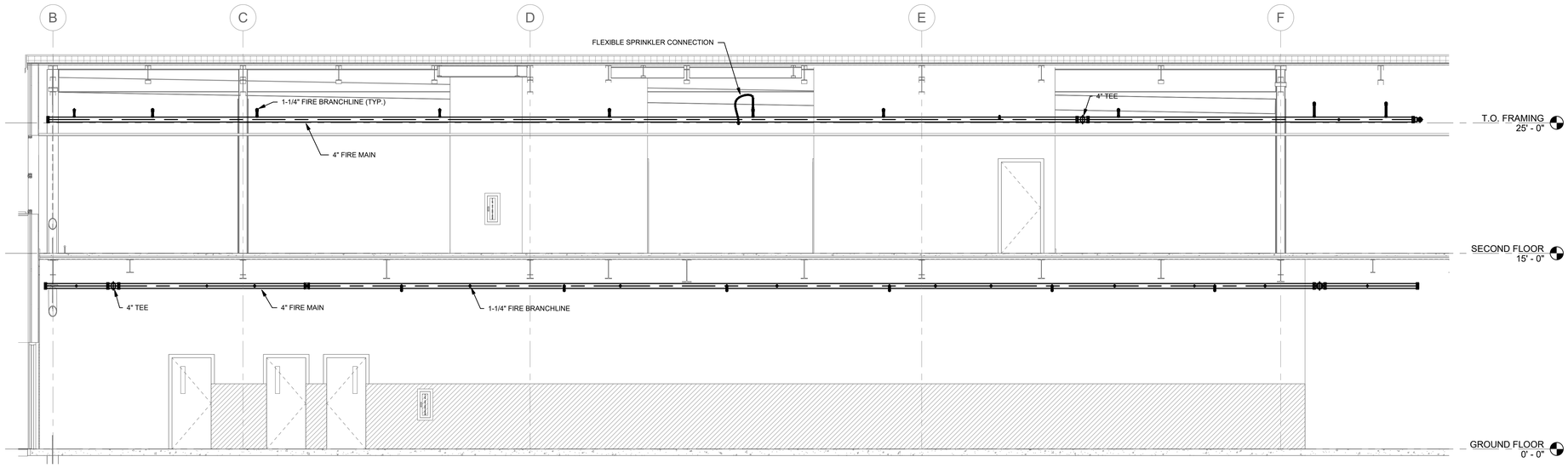
ENLARGED PLANS AND SECTIONS - FIRE PROTECTION

FP3.01



1 BUILDING SECTION - FIRE PROTECTION

0' 2' 4' 8'

1/4" = 1'-0"

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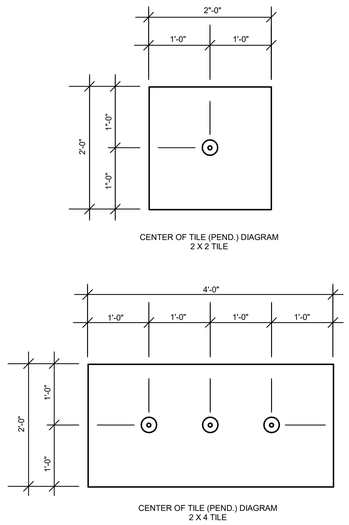
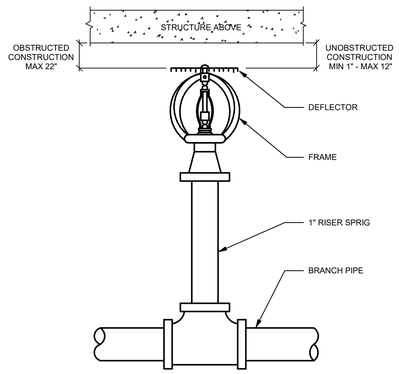
ENLARGED PLANS AND SECTIONS - FIRE PROTECTION

FP3.02



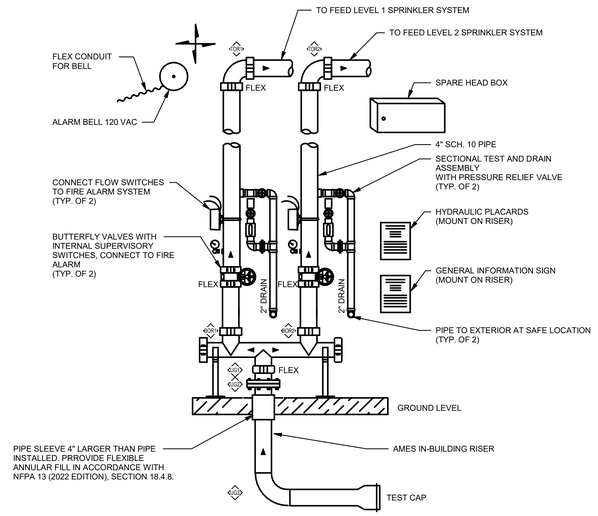
1 TILE DETAIL

NO SCALE



4 UPRIGHT HEAD ON SPRIG UP

NO SCALE



6 WET SPRINKLER RISER

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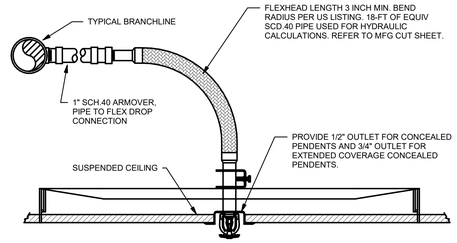
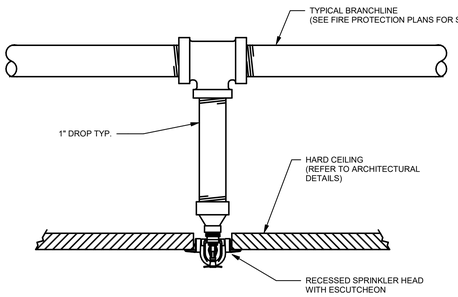


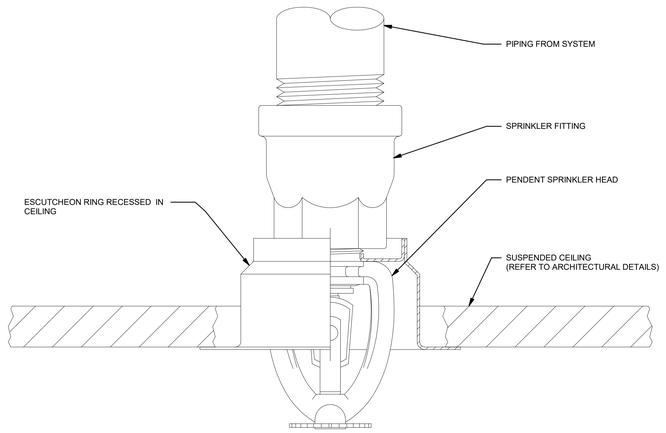
2 SPRINKLER ON FLEX DROP WITH SCH. 40 ARM-OVER

NO SCALE



3 PENDENT IN HARD LID CEILING

NO SCALE



5 RECESSED PENDENT SPRINKLER HEAD

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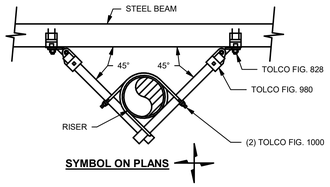
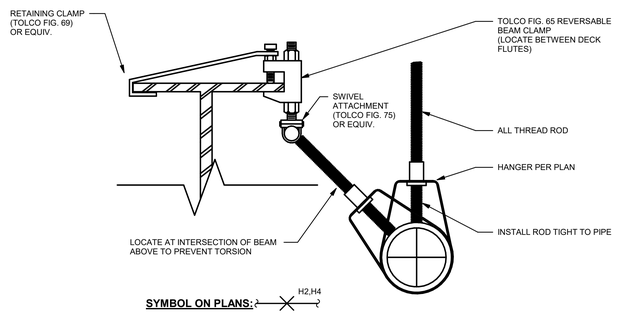
DETAILS - FIRE PROTECTION

FP4.01



1 4-WAY RISER BRACE

NO SCALE



4 BRANCH LINE RESTRAINT AT STEEL BEAM

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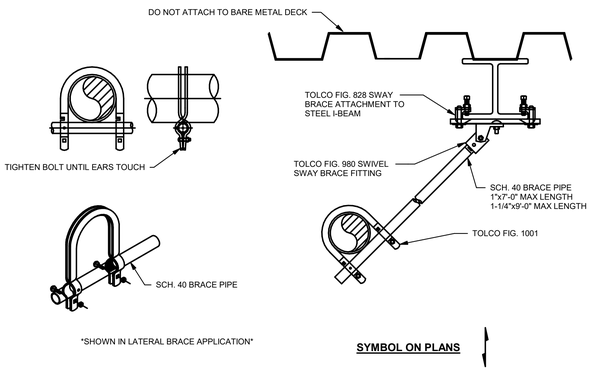
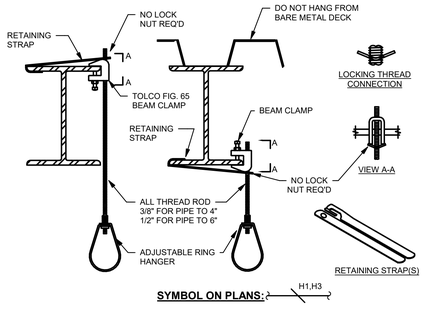


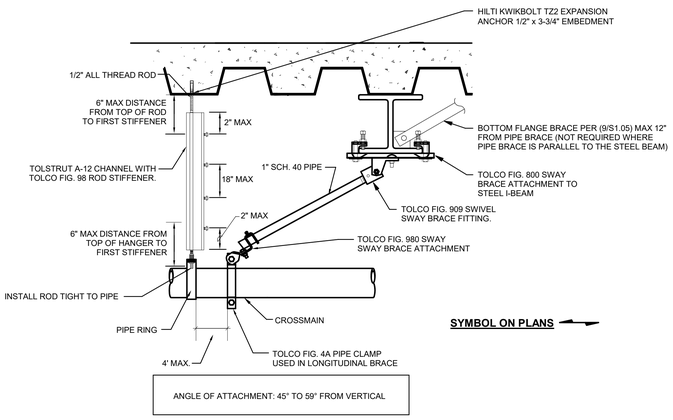
7 LATERAL SWAY BRACE - STEEL I-BEAM

NO SCALE



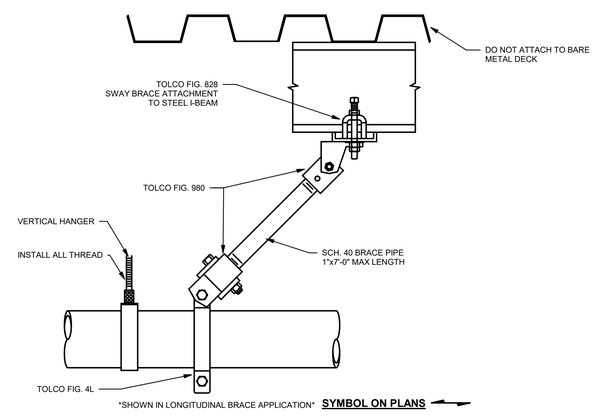
2 C-CLAMP HANGER WITH RETAINER STRAP

NO SCALE



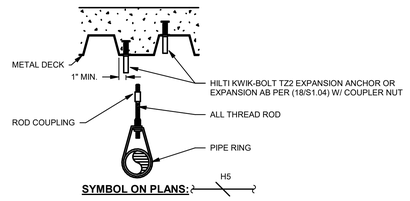
5 LATERAL SWAY BRACE - STEEL I-BEAM

NO SCALE



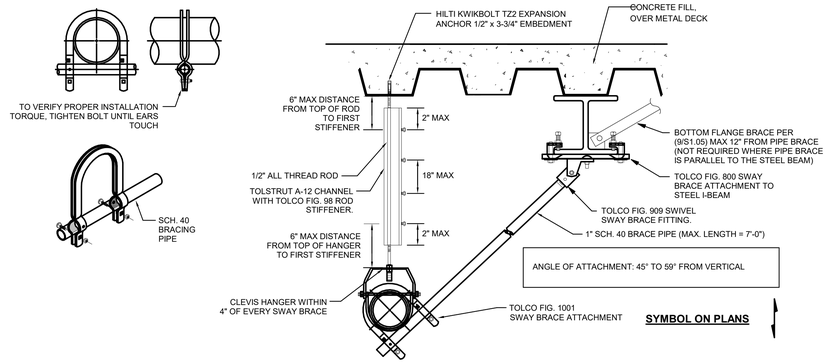
8 LONGITUDINAL SWAY BRACE - STEEL I-BEAM

NO SCALE



3 CONCRETE OVER METAL DECK INSERT HANGER

NO SCALE



6 LATERAL SWAY BRACE - STEEL I-BEAM

NO SCALE

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rev	date	issue
2	2024.12.17	DSA PC2
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REGISTERED PROFESSIONAL ENGINEER SHAWN VELASCO MALONEY No. M 27857 MECHANICAL STATE OF CALIFORNIA

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plot date:
project number: 20-296
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DETAILS - FIRE PROTECTION

FP4.02

ABBREVIATIONS

TELECOMMUNICATIONS

110	TWISTED PAIR TERMINATION BLOCK
ADF	AREA DISTRIBUTION FACILITY
BDC	BUILDING DISTRIBUTION TELECOMMUNICATIONS ROOM
BDF	BUILDING DISTRIBUTION FRAME
BEF	BUILDING ENTRANCE FRAME
BO	BY OTHERS
CAB	TELECOM CABINET OR ENCLOSURE
CONN	CONNECTOR
CSC	COPPER SPLICE CLOSURE
CVE	CONTROLLED ENVIRONMENT VAULT
FDF	FIBER DISTRIBUTION FACILITY
FS	FIBER SHELF/FIBER TERMINATION PANEL
FSC	FIBER OPTIC SPLICE CLOSURE
HH	HANDHOLE
IDC	INTERMEDIATE DISTRIBUTION TELECOMMUNICATIONS ROOM
IDF	INTERMEDIATE DISTRIBUTION FRAME
ISP	INSIDE PLANT – CABLE WITHIN A BUILDING
IT	INFORMATION TECHNOLOGY
LAN	LOCAL AREA NETWORK
MDC	MAIN DISTRIBUTION TELECOMMUNICATIONS ROOM
MDF	MAIN DISTRIBUTION FRAME
MH	MANHOLE, MAINTENANCE HOLE
MPOE	MINIMUM POINT OF ENTRY
OCEF	OPTICAL CABLE ENTRANCE FACILITY
OSP	OUTSIDE PLANT – CABLE OUTSIDE A BUILDING
PAV	PAVEMENT
PC	PLASTIC CONDUIT
PG	PAIR GROUP
POP	POINT OF PRESENCE
PR	PAIR
PVC	POLYVINYL CHLORIDE
RU	RACK UNIT
R/W	RIGHT–OF–WAY
SC	SPLICE CLOSURE
SCS	STRUCTURED CABLING SYSTEM
SER	SERIAL
SMR	SURFACE MOUNTED RACEWAY
SS	FIBER SPLICE SHELF
TC	TELECOM CONDUIT
TCH	TELECOM CONDUIT SLEEVE, HORIZONTAL
TCR	TELECOM HORIZONTAL AND VERTICAL RISER CONDUIT
TCT	TELECOM CABLE TRAY
TEC	TELECOM ENTRANCE CONDUIT
TEL	TELEPHONE
TELECOM	TELECOMMUNICATIONS
TERM	TERMINAL
TP	TWISTED PAIR
TPB	TELECOM PULL BOX
TR	TELECOM ROOM
TSL	TELECOM WALL OR FLOOR SLOT
TSV	TELECOM CONDUIT SLEEVE, VERTICAL
WAN	WIDE AREA NETWORK

ELECTRICAL

A or AMP	AMPERE
BND	BOND(ING)
C	CONDUIT
ELEC	ELECTRIC(AL)
EMT	ELECTRICAL METALLIC TUBING
ENT	ELECTRICAL NON–METALLIC TUBING
GRC	GALVANIZED RIGID CONDUIT
GND	GROUND
Hz	HERTZ
IG	ISOLATED GROUND
IMC	INTERMEDIATE METALLIC CONDUIT
PB	PULL BOX
PLN	PANEL
PWR	POWER
UPS	UNINTERRUPTABLE POWER SUPPLY
V	VOLT
VAC	VOLTS, ALTERNATING CURRENT
VDC	VOLTS, DIRECT CURRENT
W	WATT
XFMR	TRANSFORMER

GENERAL

(e)or(E)	EXISTING
(n)or(N)	NEW
ABV	ABOVE
ACH	ABOVE COUNTER HEIGHT
ACT	ACOUSTICAL CEILING TILE
ADJ	ADJUST(ABLE)
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ALT	ALTERNATE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX	APPROXIMATE/APPROXIMATELY
ARCH	ARCHITECT(URAL)
ASA	AMERICAN STANDARDS ASSOCIATION
AV	AUDIOVISUAL
AVC	AUDIOVISUAL CONTRACTOR
BET	BETWEEN
BFC	BELOW FINISHED CEILING
BLDG	BUILDING
BLW	BELOW
CB	CEILING BOX
C–C	CENTER TO CENTER
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASON UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
COORD	COORDINATE, COORDINATION
CORR	CORRIDOR
DED	DEDICATE, DEDICATED
DEMO	DEMOLISH
DEPT	DEPARTMENT
DET	DETAIL
DIM	DIMENSION
DIST	DISTANCE
DTC	DATA TELECOMMUNICATION CONTRACTOR
DWG	DRAWING
EA	EACH
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVATION
EMERG	EMERGENCY
EQ	EQUAL
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
EWB	ELECTRONIC WHITE BOARD
EXT	EXTERIOR
FCC	FEDERAL COMMUNICATIONS COMMISSION
FIN	FINISH
FLEX	FLEXIBLE
FLR	FLOOR
FLUOR	FLUORESCENT
FUT	FUTURE
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GWB	GYPSUM WALL BOARD
IFC	IN FINISHED CEILING
IFF	IN FINISHED FLOOR
INCAND	INCANDESCENT
INCL	INCLUDE, INCLUDING
INFO	INFORMATION
INT	INTERIOR
LVI	LOW VOLTAGE INTERFACE
MAX	MAXIMUM
MDU	MULTIPLE DWELLING UNIT
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, AND PLUMBING
MFG	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
NA	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOC.
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
No.	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFE	OWNER FURNISHED EQUIPMENT
OFOI	OWNER FURNISHED OWNER INSTALLED
OPP	OPPOSITE
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMIN.
OVHD	OVERHEAD
PLC	PERFORMANCE LIGHTING CONTRACTOR
PLY	PLYWOOD
PRI	PRIMARY
PROP	PROPOSED
PSC	PROJECTION SCREEN CONTROL
QTY	QUANTITY
RCP	REFLECTED CEILING PLAN
RCT	RECEPTACLE
REF	REFERENCE
REM	REMOVE
REPL	REPLACE
REQD	REQUIRED
RM	ROOM
SCHD	SCHEDULE
SECT	SECTION
SHT	DRAWING SHEET NUMBER OR SERIES
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
STD	STANDARD
STL	STEEL
SUSP	SUSPEND(ED)
SWT	SWITCH
SYM	SYMMETRICAL
TELC	TELECOMMUNICATIONS CONTRACTOR
TEMP	TEMPORARY
THK	THICK(NESS)
TIA/EIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION/ ELECTRONICS INDUSTRY ALLIANCE
TME	TO MATCH EXISTING
TYP	TYPICAL
UBC	UNIFORM BUILDING CODE
UC	UNDER COUNTER
UL	UNDERWRITERS LABORATORY
UON	UNLESS OTHERWISE NOTED
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WD	WOOD

MEASUREMENTS

BTU	BRITISH THERMAL UNIT
D or Dp	DEEP
DIA	DIAMETER
FT	FOOT or FEET
H or HGT	HEIGHT or HIGH
ID	INSIDE DIAMETER
In	INCH
L	LENGTH or LONG
Lb	POUND
LIN	LINEAR
M	METER
mm	MILLIMETER
OD	OUTSIDE DIAMETER
R	RADIUS
RAD	RADIANS
um	MICRON
W	WIDE
WT	WEIGHT
YD	YARD

DIRECTIONAL

DN	DOWN
E	EAST
HORIZ	HORIZONTAL
L	LEFT
LH	LEFT HAND
N	NORTH
PERP	PERPENDICULAR
R	RIGHT
RH	RIGHT HAND
S	SOUTH
VERT	VERTICAL
W	WEST

SYMBOLS

#	POUND OR NUMBER
&	AND
@	AT
'	FOOT OR FEET
"	INCH OR INCHES
+/– or +	PLUS OR MINUS
<	LESS THAN
=	EQUAL
>	GREATER THAN
°	DEGREES, ANGULAR MEASURE
Ω	OHM
||	PARALLEL
ø	DIAMETER
∠	ANGLE

COLOR CODE

A	ALMOND
B	BROWN
C	CRIMSON RED
E	BLACK
G	GRAY
I	IVORY
L	BLUE
O	ORANGE
P	PURPLE
R	DARK RED
V	GREEN
W	WHITE
Y	YELLOW

WIRE AND CABLE

AFWW	BONDED FILL FLOODED TWISTED CABLE
ARMM	RISER ARMORED BONDED MULTIPAIR CABLE
AWG	AMERICAN WIRE GUAGE
CAT3	CATEGORY 3 TWISTED PAIR COPPER CABLE
CAT4	CATEGORY 4 TWISTED PAIR COPPER CABLE
CAT5	CATEGORY 5 TWISTED PAIR COPPER CABLE
CAT5e	CATEGORY 5 ENHANCED TWISTED PAIR COPPER CABLE
CAT6	CATEGORY 6 TWISTED PAIR COPPER CABLE
CM	NEC, COMMUNICATIONS CABLE
CMP	NEC, COMMUNICATIONS PLENUM CABLE
CMR	NEC, COMMUNICATIONS RISER CABLE
COAX	COAXIAL CABLE
FO	FIBER OPTIC
HDPE	HIGH DENSITY POLYETHELYNE
LTFF	LOOSE TUBE FILLED & FLOODED
MDPE	MEDIUM DENSITY POLYETHELYNE
MM	MULTIMODE FIBER OPTIC CABLE
MPP	NEC, MULTIPURPOSE PLENUM CABLE
OFC	NEC, OPTICAL FIBER CONDUCTIVE CABLE
OFCP	NEC, OPTICAL FIBER CONDUCTIVE PLENUM CABLE
OFCR	NEC, OPTICAL FIBER CONDUCTIVE RISERCABLE
OFNR	NEC, OPTICAL FIBER NON–CONDUCTIVE CABLE
OFN	NEC, OPTICAL FIBER NON–CONDUCTIVE PLENUM CABLE
OFNP	NEC, OPTICAL FIBER NON–CONDUCTIVE RISERCABLE
RG–6	RG–6 COAXIAL CABLE FOR TELEVISION SIGNALS
SM	SINGLE MODE FIBER OPTIC CABLE
STP	SHIELDED TWISTED PAIR
TB	TIGHT BUFFERED
UTP	UNSHIELDED TWISTED PAIR
WM	WIRE MANAGER/MANAGEMENT

GENERAL NOTES

1. CONDUIT: ALL CONDUIT IS TO BE 1–1/4" DIAMETER, UON.
2. ALL CATEGORY 6A CONNECTORS SHALL BE BPBC MODULAR JACKS/PLUGS (RJ45). REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
3. ALL IT NETWORK BACKBONE DATA FIBER OPTIC CONNECTORS SHALL BE DUPLEX SC MODULAR JACKS/PLUGS. FIRE ALARM FIBER BACKBONE CONNECTORS SHALL BE LC MODULAR JACKS/PLUGS. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
4. SIGNAL GROUNDING: USE THE RACK AS A COMMON POINT OF GROUNDING FOR ALL TECHNICAL SYSTEMS. THE RACK IS TO BE GROUNDED / BONDED TO EARTH. CABLE SHIELDS SHALL ONLY BE USED FOR SHIELDING AND CONNECTED TO GROUND AT THE RACK ONLY. ALL RACK–MOUNTED EQUIPMENT SHALL BE CHECKED FOR GROUND CONTINUITY BETWEEN CHASSIS AND THE RACK.
5. CABLING:
   - A. ALL CABLING IS TO BE CONTINUOUS AND UN–SPLICED.
   - B. CABLE RUNWAY SYSTEMS SHALL BE UTILIZED AS THE MAIN DISTRIBUTION OF ALL CABLES.
   - C. ONLY PLENUM RATED CABLES AND CABLE TIES WILL BE USED FOR THIS PROJECT.
   - D. CABLES WITHIN RACKS SHALL BE BUNDLED AND LACED NEATLY TO SUPPORT MEMBERS (BOUND WITH HOOK AND LOOP REUSABLE SELF–GRIPPING CABLE TIES) WITH A SERVICE LOOP LARGE ENOUGH TO MAINTAIN CONVENIENT ACCESS TO ALL EQUIPMENT CONNECTIONS.
   - E. EQUIPMENT POWER CABLE IS TO BE SEPARATED FROM SIGNAL CABLES WITH IN ANY ENCLOSURE. PROVIDE THE MAXIMUM SEPARATION POSSIBLE WITHIN THE ENCLOSURE.
   - F. ALL STATION CABLING SHALL BE ROUTED THROUGH CONDUITS FROM THE J–HOOKS ABOVE THE CEILING TO THE COMMUNICATIONS FACEPLATE AND RACEWAYS.
   - G. J–HOOK STYLE CABLE SUPPORT SYSTEM SHALL RUN ABOVE THE CEILINGS IN THE BUILDING CORRIDORS. ALL CABLES SHALL BE SUPPORTED AT A MAXIMUM OF FOUR FOOT INTERVALS – AT NO POINT SHALL CABLES REST ON OTHER STRUCTURES OR ACOUSTIC CEILING GRIDS OR PANELS.
   - H. J–HOOKS SHALL BE SUPPORTED BY THREADED ROD ONLY. DROP WIRES ARE NOT PERMITTED
   - I. HORIZONTAL DISTRIBUTION CABLES SHALL BE BUNDLED IN GROUPS NOT GREATER THAN 50 CABLES. FOLLOW BICSI STANDARDS AND BEST PRACTICES WHEN BUNDLING CABLES.
   - J. THE CABLING SYSTEM AND SUPPORT HARDWARE SHALL BE INSTALLED SO THAT IT DOES NOT OBSCURE ANY VALVES, FIRE ALARM, BOXES, OR OTHER CONTROL DEVICES. CABLES SHALL BE INSTALLED ABOVE FIRE–SPRINKLER AND SYSTEMS AND SHALL NOT BE ATTACHED TO THE SYSTEM OR ANY ANCILLARY EQUIPMENT OR HARDWARE.
   - K. CABLES SHALL NOT BE ATTACHED TO CEILING GRID OR LIGHTING SUPPORT WIRES. WHERE LIGHT SUPPORT FOR DROP CABLE LEGS IS REQUIRED, THE CONTRACTOR SHALL INSTALL CLIPS TO SUPPORT THE CABLING.
   - L. ALL STRUCTURED CABLING MUST BE INSTALLED IN CONDUIT, J–HOOK, OR CABLE TRAY. NO FREE RUN CABLING IS PERMITTED.
   - M. ALL ENGRAVED LABELS SHALL BE FILLED WITH WHITE OR BLACK AS REQUIRED FOR THE GREATEST CONTRAST BETWEEN THE ENGRAVING AND FACEPLATE/LABEL BACKGROUND COLOR.
6. TECHNOLOGY CONVEYANCE SYSTEM:
   - A. CONDUITS WHICH CARRY POWER MUST BE SEPARATED FROM TECHNOLOGY CONDUITS BY 12 INCHES FOR VOLTAGES OVER 100 VAC, 24 INCHES FOR VOLTAGES OVER 200 VAC AND 48 INCHES FOR ALL VOLTAGES OVER 300 VAC. WHERE POWER AND TECHNOLOGY CABLING AND CONDUIT CROSS, THEY SHOULD DO SO AT RIGHT ANGLES.
   - B. ALL CONDUIT SHALL BE CLEANED, DEBURRED AND HAVE PULL–STRINGS INSTALLED.
   - C. ALL INTERIOR AND ABOVE GRADE CONDUIT SHALL BE SOLID FERRIC METALLIC. ALL CONDUIT BELOW GRADE SHALL BE PLASTIC. CONTRACTOR SHALL NOT CHANGE CONDUIT TYPE WITHOUT DESIGN CONSULTANT APPROVAL.
   - D. THE CONTRACTOR SHALL PROVIDE INNERDUCT FOR ALL BACKBONE FIBER RUNS.
   - E. PROVIDE PULL BOXES USING SWEEP ELBOWS AS REQUIRED BY CONDUIT PATH, CABLE BEND RADIUS, OR PULLING TENSION LIMITS. CONDUIT INSTALLED SHALL COMPLY WITH NEC REQUIREMENTS FOR CONDUIT INSTALLATION. PROVIDE PULLBOX ON CONDUIT RUNS EVERY 150', AFTER (2) 90 DEGREE BENDS, AND AS OTHERWISE REQUIRED BY NEC.
   - F. BACK BOXES AT COMMUNICATION FACEPLATES SHALL BE 5" 2–7/8" DEEP RANDL TELECOMMUNICATIONS T–55017 BOX. 1–1/4" CONDUIT FROM BACK BOXES SHALL ROUTE TO THE J–HOOKS..
   - G. COORDINATE BACK BOX ELEVATIONS AND LOCATIONS SHOWN WITH ELECTRICAL BACK BOX RACEWAYS SHOWN ON ELECTRICAL DRAWINGS.
7. MARKINGS: PERMANENTLY MARK ALL CONNECTORS, CABLES, AND CABLE TERMINATIONS TO INDICATE THEIR FUNCTION AS IT CORRESPONDS TO THE WIRING DIAGRAM. ALL CABLE PAIRS SHALL BE CODED WITH PERMANENTLY ATTACHED LABELS ON THE CABLE ENDS WITH CONSISTENT COLOR–CODED MARKINGS TO INDICATE THEIR FUNCTION.
8. AESTHETICS: COORDINATE THE ELEVATION/LOCATION, FINISH AND COLOR OF ALL PLATES, WALL SWITCHES, FLOOR BOXES AND JUNCTION BOXES WITH THE CONSULTANT OR ARCHITECT.
9. VENTILATION: PROVIDE ADEQUATE VENTILATION IN EQUIPMENT RACKS TO CONFORM TO THE EQUIPMENT MANUFACTURER'S TEMPERATURE REQUIREMENTS.
10. FASTENERS, HANGERS, SUPPORTS: PROVIDE FASTENERS, SUPPORTS AND SEISMIC RESTRAINTS TO ADEQUATELY SUPPORT THE LOAD. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY LOADS WITH A STRUCTURAL ENGINEER AS REQUIRED.
11. WORKMANSHIP: INSTALLATION OF ALL WORK INCLUDING CABLING SHALL BE NEAT. ALL BOXES INCLUDING THE CAMERA ENCLOSURES, EQUIPMENT RACKS, ETC. SHALL BE PLUMB AND SQUARELY LOCATED. REPLACE/PATCH ALL CEILING, WALLS AND FLOOR REMOVED OR MODIFIED FOR THIS WORK WHEN THE WORK IS COMPLETE. LEAVE THE JOB SITE CLEAN AND FREE FROM MARKS AND BLEMISHES.
12. FIRE STOPPING: UL LISTED FIRE STOPPING SYSTEMS FOR COMMUNICATIONS CABLE IN CONDUIT SLEEVES SHALL BE UTILIZED ON ALL CABLES THAT PENETRATE FIRE RATED PARTITIONS. PROVIDE A STICKER ON THE WALL BY THE SLEEVES DETAILING THE UL RATING AND DATE INSTALLED.
13. GROUNDING AND BONDING: ALL STRUCTURED CABLING EQUIPMENT, CABLING, RACEWAY, ETC. SHALL BE GROUNDED IN ACCORDANCE WITH THE SPECIFICATIONS AND ANSI J–STD–607–A. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL GROUNDING CABLES AND HARDWARE AS REQUIRED FOR CONNECTION TO THE TELECOMMUNICATIONS GROUNDING AND BONDING SYSTEM. THE TELECOMMUNICATIONS GROUNDING AND BONDING SYSTEM SHALL BE FURNISHED AND INSTALLED BY THE EC.
14. ALL TELECOM OUTLETS WILL BE PROVIDED WITH A 24" SERVICE LOOP T THE NEAREST J–HOOK PRIOR TO TERMINATION.

PROJECT SYMBOLS

——— J ———	J–HOOK CABLE PATHWAY
○○○○	RISER CONDUITS UP SEE DETAIL 5/TN0.02
●●●●	RISER CONDUITS DOWN SEE DETAIL 5/TN0.02
◔◔◔◔	RISER CONDUITS THROUGH SEE DETAIL 5/TN0.02
	12 INCH CABLE TRAY PROVIDED BY DC
	CONDUIT/RISER SLEEVE SEE DETAIL 5/TN0.02
	TELECOM BACKBOARDS – 3/4" A–C GRADE FIRE RESISTANT PLYWOOD PLYWOOD SHALL HAVE STAMP THAT INDICATES TREATED FIRE RESISTANCE MASK STAMP AND PAINT PLYWOOD WITH A LOW SMOKE SEMI–GLOSS WHITE PAINT
	GROUND BUS BAR SEE DETAIL 9/TN0.02 PROVIDED BY EC
A	TYPE A DATA OUTLET (2) JACKS: 4–PAIR UTP CATEGORY 6A CABLES EACH TERMINATED ON A 8P8C MODULAR JACK (RJ45) (1) JACK FOR VOICE, (1) JACK FOR DATA 5" SQUARE, 2 7/8" DEEP BOX (T–55017 RANDL TELECOMMUNICATIONS) SEE DETAIL 5/TN7.01
A/B	TYPE B DATA OUTLET (2) JACK: 4–PAIR UTP CATEGORY 6A CABLES EACH TERMINATED ON A 8P8C MODULAR JACK (RJ45) (2) JACKS FOR DATA 5" SQUARE, 2 7/8" DEEP BOX (T–55017 RANDL TELECOMMUNICATIONS) PLENUM RATED SURFACE MOUNT BOX FOR ABOVE CEILING DATA OUTLETS SEE DETAIL 9/TN7.01 SEE DETAIL 6/TN7.01 FOR ABOVE CEILING DATA OUTLETS
C	TYPE C DATA OUTLET (4) JACKS: 4–PAIR UTP CATEGORY 6A CABLES EACH TERMINATED ON A 8P8C MODULAR JACK (RJ45) (2) JACKS FOR DATA, (2) JACKS FOR VOICE 5" SQUARE, 2 7/8" DEEP BOX (T–55017 RANDL TELECOMMUNICATIONS) SEE DETAIL 13/TN7.01
D/D	TYPE D DATA OUTLET (4) JACK: 4–PAIR UTP CATEGORY 6A CABLES EACH TERMINATED ON A 8P8C MODULAR JACK (RJ45) (4) JACK FOR DATA 5" SQUARE, 2 7/8" DEEP BOX (T–55017 RANDL TELECOMMUNICATIONS) PLENUM RATED SURFACE MOUNT BOX FOR ABOVE CEILING DATA OUTLETS SEE DETAIL 10/TN7.01 SEE DETAIL 6/TN7.01 FOR ABOVE CEILING DATA OUTLETS
E	TYPE E DATA OUTLET (1) JACK: 4–PAIR UTP CATEGORY 6A CABLES EACH TERMINATED ON A 8P8C MODULAR JACK (RJ45) (1) JACK FOR VOICE 5" SQUARE, 2 7/8" DEEP BOX (T–55017 RANDL TELECOMMUNICATIONS) SEE DETAIL 14/TN7.01
# TN–##	ELEVATION INDICATOR/LOCATOR. SEE ASSOCIATED ELEVATION. UPPER # INDICATES DETAIL NUMBER. LOWER # INDICATES SHEET.
# TN–##	ENLARGED PLAN/DETAIL INDICATOR/LOCATOR. SEE ASSOCIATED ENLARGED PLAN/DETAIL. UPPER # INDICATES DETAIL NUMBER. LOWER # INDICATES SHEET.
# TN–##	SECTION INDICATOR/LOCATOR. SEE ASSOCIATED SECTION. UPPER # INDICATES DETAIL NUMBER. LOWER # INDICATES SHEET.

FACILITY NOTES

1. POWER:
   - A. EACH CIRCUIT THAT SERVES TECHNOLOGY SYSTEMS MUST HAVE A DEDICATED GROUND AND NEUTRAL CONDUCTOR. SHARED GROUNDS AND NEUTRALS ARE NOT ACCEPTABLE.
   - B. ALL CIRCUITS ARE 120 VAC, 60 HZ, 1–PHASE, UON.
   - C. NOMINAL ELECTRICAL VOLTAGE IS 120 VAC. VOLTAGE MUST BE MAINTAINED WITH +/–10 PERCENT OF NOMINAL AT ALL TIMES FOR PROPER EQUIPMENT OPERATION.
2. PRIOR TO THE START OF ACTIVE EQUIPMENT INSTALLATION THE EQUIPMENT SPACES SHALL BE:
   - A. CLEAN AND SEALED FROM DUST PRIOR TO EQUIPMENT INSTALLATION.
   - B. MAINTAINED AT A TEMPERATURE OF 72 ± 10 DEGREES FAHRENHEIT AT ALL TIMES.
   - C. MAINTAINED AT A RELATIVE HUMIDITY BETWEEN 40 AND 70 PERCENT AT ALL TIMES.
3. ROUTE ALL CONDUITS TO NEAREST IT ROOM OR ACCESSIBLE CEILING.
4. COMPLY WITH RECOMMENDATIONS FROM BICSI TDMM AND TIA–569–D FOR SEPARATING UNSHIELDED COPPER COMMUNICATION CABLE FROM POTENTIAL EMI SOURCES, INCLUDING POWER LINES AND EQUIPMENT:
   - A. ELECTRICAL EQUIPMENT RATING LESS THAN 2 KVA: A MINIMUM OF 5"
   - B. ELECTRICAL EQUIPMENT RATING BETWEEN 2 KVA AND 5 KVA: A MINIMUM OF 12"
   - C. ELECTRICAL EQUIPMENT RATING MORE THAN 5 KVA: A MINIMUM OF 24"
   - D. SEPARATION BETWEEN COMMUNICATIONS CABLES AND ELECTRICAL MOTORS AND TRANSFORMERS, 5 KVA OR HP AND LARGER: A MINIMUM OF 48"

PROJECT NOTES

1. THE CONTRACTOR SHALL HAVE ALL COMMSCOPE TRAINING AND CERTIFICATIONS REQUIRED TO PROVIDE 25-YEAR WARRANTY AND APPLICATION ASSURANCE. THE ENTIRE INSTALLED STRUCTURED CABLING SYSTEM SHALL RECEIVE COMMSCOPE 25-YEAR WARRANTY.
2. THE CONTRACTOR SHALL FURNISH THE FOLLOWING CATEGORY PATCH CORDS:
   - A. (1) 14' CAT6A LIGHT BLUE COMMSCOPE MINO PATCH CORD FOR EACH DATA JACK.
   - B. (1) COMMSCOPE CAT6A OSP PATCH CORD FOR EACH EXTERIOR DEVICE (QUANTITY AND LENGTH AS REQUIRED).
   - C. (1) BOX OF (50) 5' CAT6A LIGHT BLUE COMMSCOPE MINO PATCH CORDS FOR EACH DATA PATCH PANEL.
   - D. (1) BOX OF (50) 5' ORANGE COMMSCOPE MINO PATCH CORDS FOR VOICE PATCHING.
3. THE CONTRACTOR SHALL FURNISH THE FOLLOWING FIBER PATCH CORDS:
   - A. (10) SC-LC 10' SMF YELLOW PATCH CORDS.
   - B. (5) SC-SC 3' SMF YELLOW PATCH CORDS.
   - C. (4) LC-LC 3' SMF RED PATCH CORDS.
   - D. (4) LC-LC 10' SMF RED PATCH CORDS.
4. COORDINATE FINAL PATCH CORD COUNTS WITH CLPCCD ITS BEFORE ORDERING.
5. COORDINATE CABLE LABELING REQUIREMENTS AND STANDARDS WITH CLPCCD ITS AT THE TELECOM PRE-CONSTRUCTION MEETING.

SCOPE OF WORK

DESCRIPTION OF WORK - FURNISH / INSTALL / TEST	CONTRACTOR			TSP	O
TELECOMMUNCATION INFRASTRUCTURE/MISC	GC	EC	TC		
CONSTRUCTION SCHEDULE AND ROOM READY DATES	X				
HANDHOLES/MANHOLES FOR TELECOM SERVICES ENTERING BUILDINGS		X			
OSP CONDUIT PATHWAYS FOR TELECOM SERVICES ENTERING BUILDINGS		X			
J-HOOK CABLE SUPPORTS, CABLE TRAYS, CONDUIT PATHWAYS, AND JUNCTION BOXES		X			
FLOOR BOXES AND POKE-THRUS		X			
POWER RECEPTACLES FOR TELECOM EQUIPMENT		X			
TELECOMMUNICATIONS BONDING AND GROUNDING EQUIPMENT		X			
LIGHTING FOR TELECOM ROOMS		X			
FIREPROOFING FOR CONDUIT SLEEVES PENETRATING WALLS		X			
HVAC MINI-SPLIT SYSTEMS FOR TELECOM ROOMS	X				
FIRE RATED A-C PLYWOOD W/ FIRE-RETARDANT PAINT FOR TELECOM ROOMS	X				
	CONTRACTOR			**TSP**	**O**
TELECOMMUNICATION SYSTEMS	**GC**	**EC**	**TC**		
OSP BACKBONE CABLING AND TERMINATIONS FOR TELECOM SERVICES ENTERING BUILDINGS				X	
OSP BACKBONE CABLING AND TERMINATIONS TO CONNECT BUILDING NETWORKS			X		
RISER BACKBONE CABLING AND TERMINATIONS			X		
HORIZONTAL CABLING AND TERMINATIONS			X		
WIRELESS ACCESS POINT (WAP) CABLING AND TERMINATIONS			X		
OTHER NETWORK CABLING AND TERMINATIONS (AV, SECURITY, BAS, ETC.)			X		
DATA OUTLET FACEPLATES			X		
PATCH PANELS AND CABLE MANAGEMENT			X		
TELECOM ROOM EQUIPMENT RACKS			X		
VERTICAL AND HORIZONTAL CABLE TRAYS/RUNWAYS IN TELECOM ROOMS			X		
CATEGORY 6A AND FIBER OPTIC PATCH CORDS			X		
UNIVERSAL POWER SUPPLIES (UPS) W/ BATTERY BACKUPS					X
WIRELESS ACCESS POINTS (WAP)					X
PRINTERS, WORKSTATIONS, AND OTHER ACTIVE NETWORK EQUIPMENT					X
NETWORK SWITCHES TO SUPPORT BACKBONE, HORIZONTAL, AND WAP CABLING					X

LEGEND

CONTRACTOR REFERS TO THE CONSTRUCTION TEAM
GC = GENERAL CONTRACTOR
EC = ELECTRICAL CONTRACTOR
TC = TELECOM CONTRACTOR
TSP = TELECOM SERVICE PROVIDER
O = OWNER
X = FURNISH AND INSTALL

SHEET INDEX

DRAWINGS ISSUED LOG

NUMBER	DRAWING NAME	2/17/22 SCHEMATIC DESIGN	2/18/22 SD PRICING SET	12/23/22 100% DESIGN DEVELOPMENT	01/16/23 100% DESIGN DEVELOPMENT	08/16/23 50% CONSTRUCTION DOCUMENTS	10/25/2023 DSA SUBMISSION
TN0.01	SHEET INDEX AND NOTES	X	X	X	X	X	X
TN0.02	RISER DIAGRAMS	X	X	X	X	X	X
TN1.00	TELECOM BACKBONE CABLING SITE PLAN						X
TN1.01	GROUND LEVEL FLOOR PLAN	X	X	X	X	X	X
TN1.02	SECOND LEVEL FLOOR PLAN	X	X	X	X	X	X
TN4.01	ENLARGED PLAN					X	X
TN4.02	ENLARGED PLAN					X	X
TN5.01	RACK ELEVATIONS						X
TN7.01	COORDINATION DETAILS	X	X	X	X	X	X
TN7.02	COORDINATION DETAILS						X

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2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

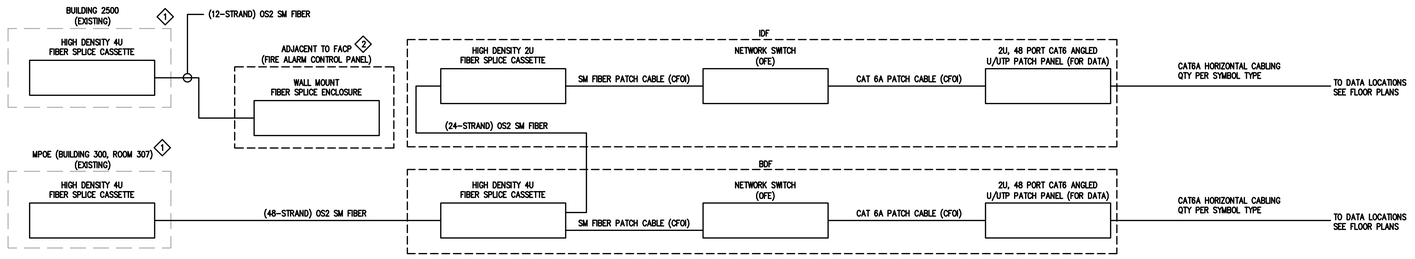
⚠	date	issue description

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: NOVEMBER 15, 2024

SHEET
INDEX AND
NOTES

TN0.01

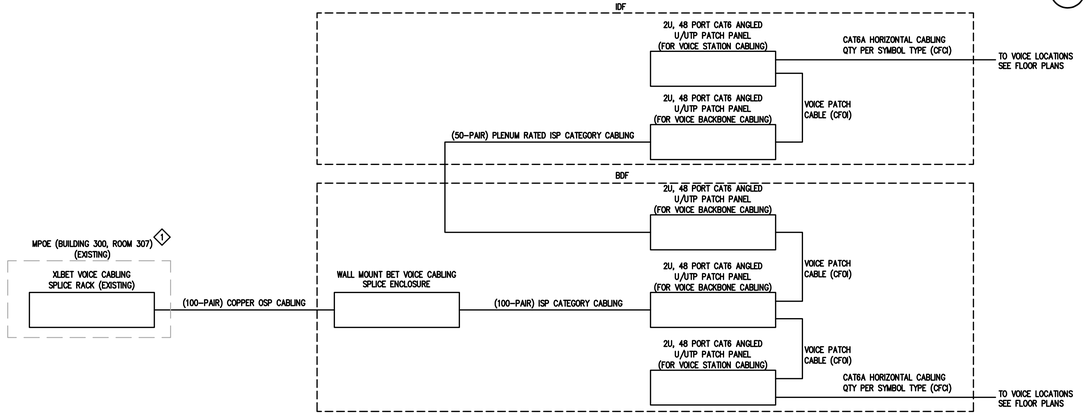


NOTES:
1. COORDINATE INSTALLATION OF ALL CABLING IN EXISTING SPACES WITH CLPCCD ITS.
2. FACP BY OTHERS. SEE FIRE PROTECTION DRAWINGS.
3. ALL EQUIPMENT AND CABLING SHOWN IS CFCI, UON.
4. DETAILED TERMINATION AND LABELING DETAILS WILL BE PROVIDED BY CLPCCD ITS AT THE TELECOM CONTRACTOR PRE-CONSTRUCTION MEETING.
5. REFER TO SPECIFICATION 27 1000 FOR DETAILED LIST OF PATCH CORDS REQUIRED. COORDINATE FINAL PATCH CORD COUNTS WITH CLPCCD ITS BEFORE ORDERING.
6. ALL EQUIPMENT SHOWN IS TYPICAL AND DIAGRAMMATIC. REFER TO APPROPRIATE PLAN DRAWINGS AND RACK ELEVATIONS FOR QUANTITIES REQUIRED.

TELECOM DATA CONNECTIVITY DIAGRAM

SCALE: NTS

4



NOTES:
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3. ALL EQUIPMENT AND CABLING SHOWN IS CFCI, UON.
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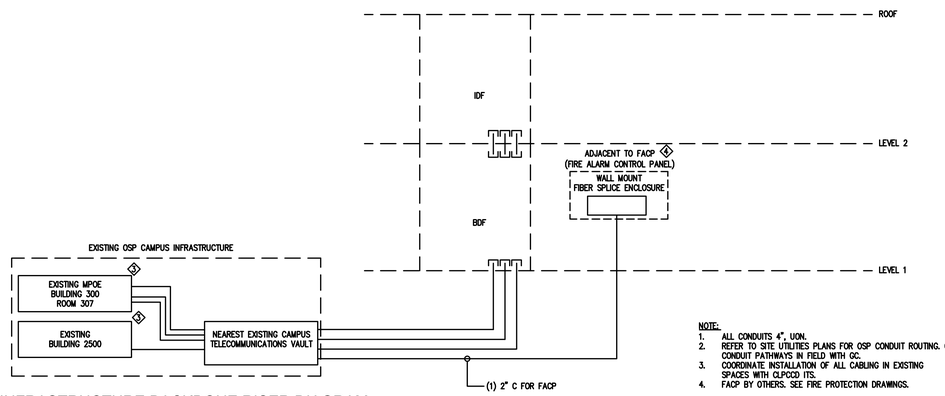
TELECOM VOICE CONNECTIVITY DIAGRAM

SCALE: NTS

3



NOTE:
1. ALL CONDUITS 4", UON.
2. REFER TO SITE UTILITIES PLANS FOR OSP CONDUIT ROUTING. COORDINATE CONDUIT PATHWAYS IN FIELD WITH GC.
3. COORDINATE INSTALLATION OF ALL CABLING IN EXISTING SPACES WITH CLPCCD ITS.
4. FACP BY OTHERS. SEE FIRE PROTECTION DRAWINGS.

INFRASTRUCTURE BACKBONE RISER DIAGRAM

SCALE: NTS

1

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	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

	date	issue description

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SIGNATURE
APPROVAL DATE

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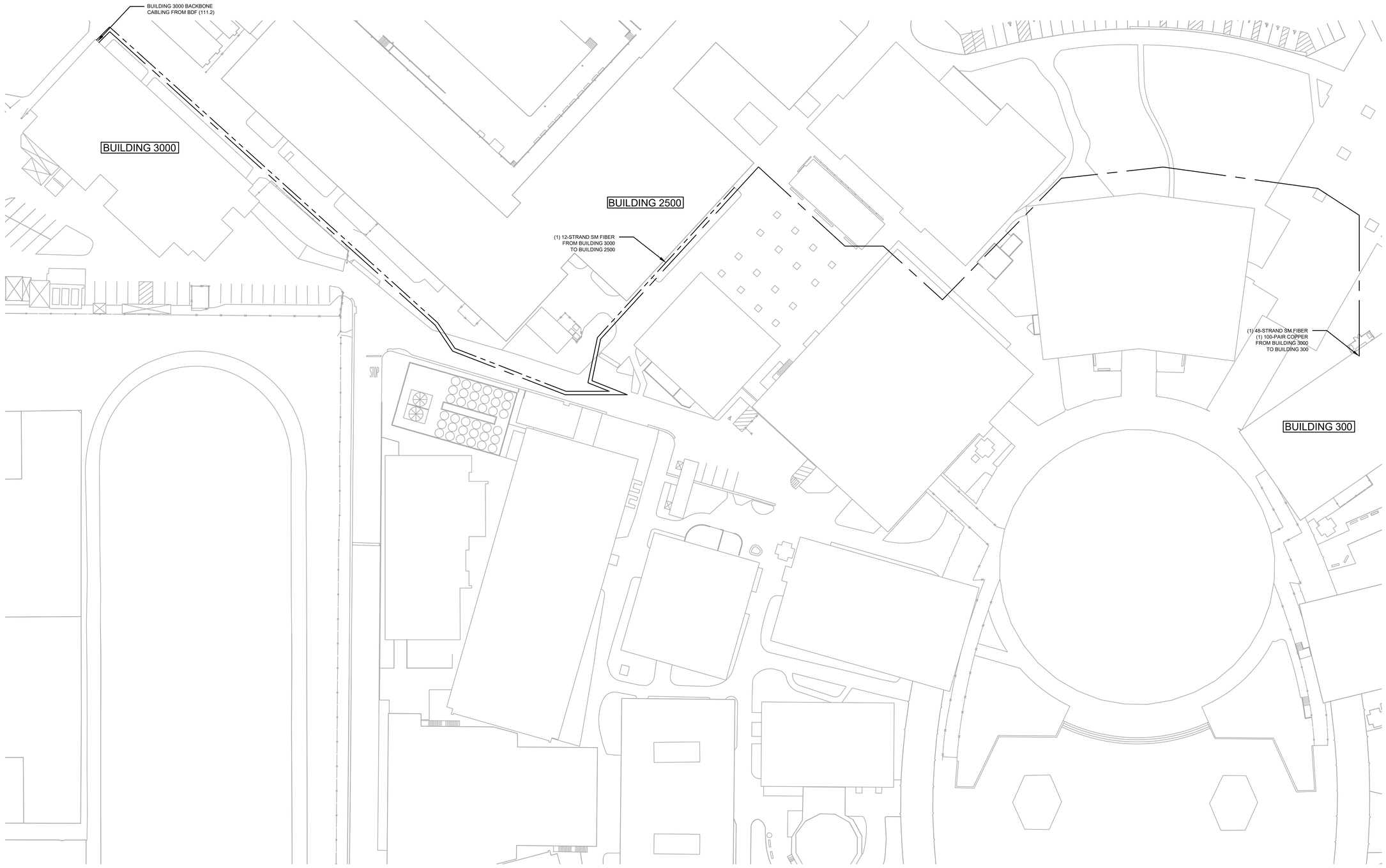
project number: 20-296
date: NOVEMBER 15, 2024

RISER DIAGRAMS

TN0.02



NOTES:

1. THE TELECOM CONTRACTOR SHALL FURNISH AND INSTALL ALL BACKBONE CABLING FROM NEW BUILDING 3000 TO THE EXISTING MPOE AND EXISTING FIRE ALARM HEADEND TO PROVIDE NETWORK CONNECTIVITY.
2. COORDINATE INSTALLATION OF ALL CABLING IN EXISTING SPACES WITH CLPCCD ITS.
3. ALL NEW OUTSIDE PLANT INFRASTRUCTURE (CONDUIT PATHWAYS, HAND HOLES, MAN HOLES, ETC.) SHALL BE FURNISHED AND INSTALLED BY GC/EC. SEE CIVIL UTILITY DRAWINGS FOR OUTSIDE PLANT INFRASTRUCTURE, AS REQUIRED.

TELECOM BACKBONE CABLING SITE PLAN

SCALE: 1/32" = 1'-0"

1

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STATE OF CALIFORNIA
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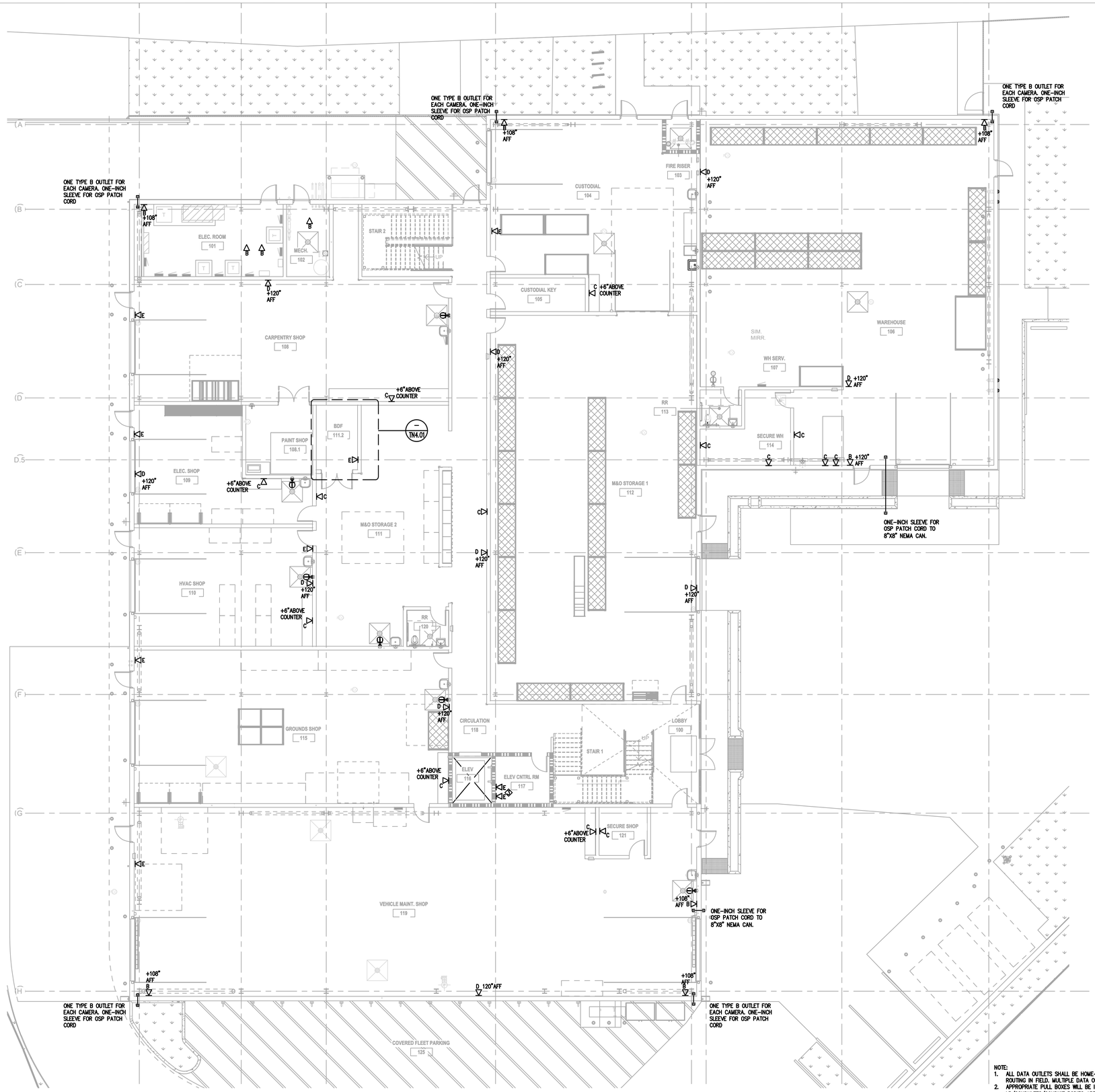
date: NOVEMBER 15, 2024

TELECOM BACKBONE CABLING SITE PLAN

TN1.00



NOTE:
1. ALL DATA OUTLETS SHALL BE HOME-RUN CONDUIT TO THE BDF. COORDINATE CONDUIT ROUTING IN FIELD. MULTIPLE DATA OUTLETS MAY BE CONSOLIDATED INTO LARGER CONDUITS.
2. APPROPRIATE PULL BOXES WILL BE INSTALLED EVERY 180 DEGREES OF BEND. LB/CONDULETS/CONDUIT BODIES ARE NOT PERMITTED.
3. COORDINATE LOCATION AND INSTALLATION OF ELEVATOR CABLING WITH ELEVATOR VENDOR. ELEVATOR VENDOR SHALL FURNISH AND INSTALL ALL REQUIRED CABLING FROM DATA OUTLET TO ELEVATOR CAB/WITHIN ELEVATOR SHAFT.

GROUND LEVEL FLOOR PLAN
SCALE: 1/8" = 1'-0"

1

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⚠	date	issue description

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C-21715
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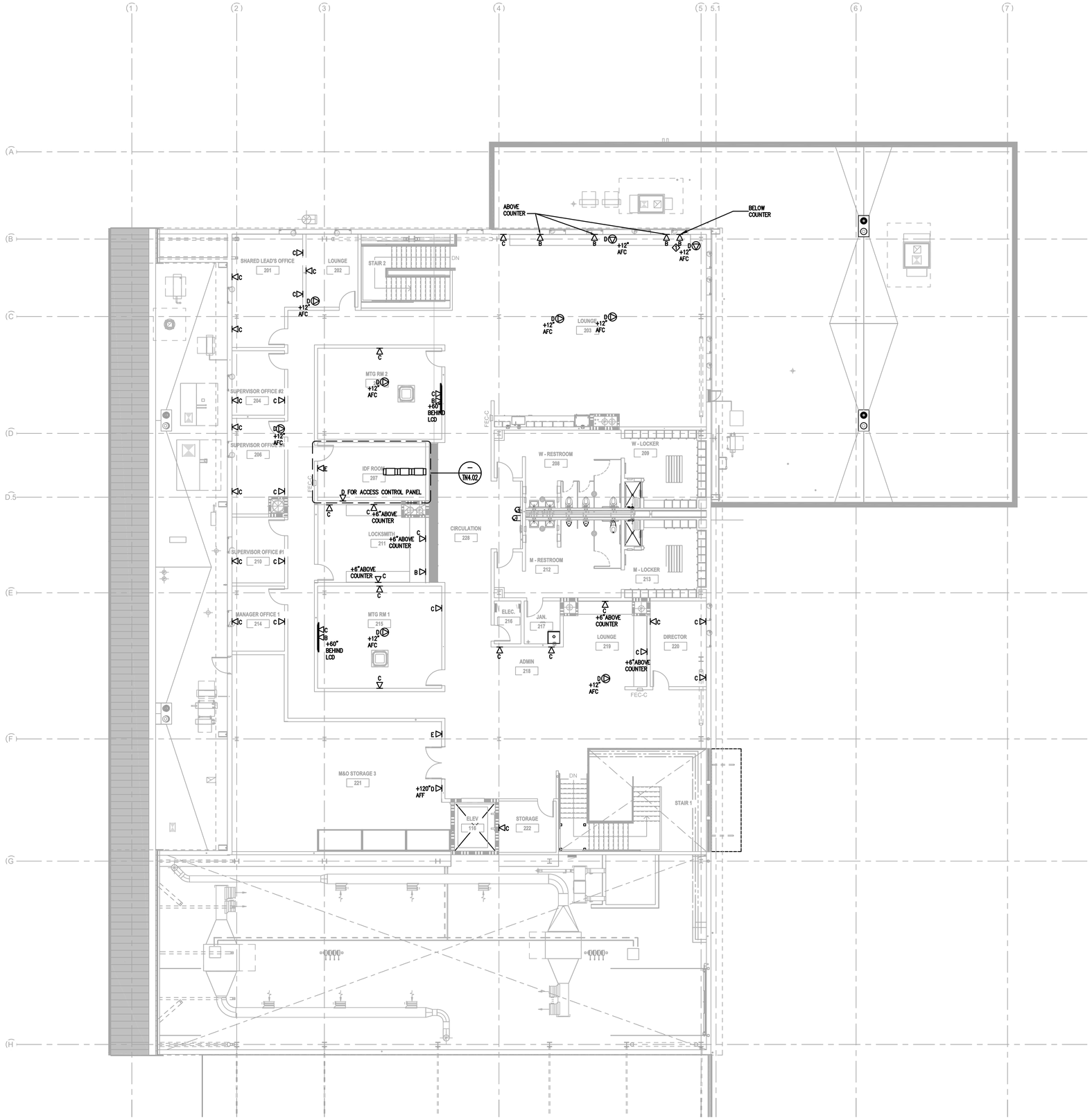
GROUND LEVEL FLOOR PLAN

TN1.01



NOTES:
1. COORDINATE WITH CLPCCD ITS AND AV CONTRACTOR FOR FINAL INSTALLED LOCATION OF DATA OUTLET. DATA OUTLET SHALL SUPPORT UNDER COUNTER AV RACK. SEE DETAIL 11/TA7.01.

SECOND LEVEL FLOOR PLAN

SCALE: 1/8" = 1'-0"

1

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SECOND LEVEL FLOOR PLAN

TN1.02

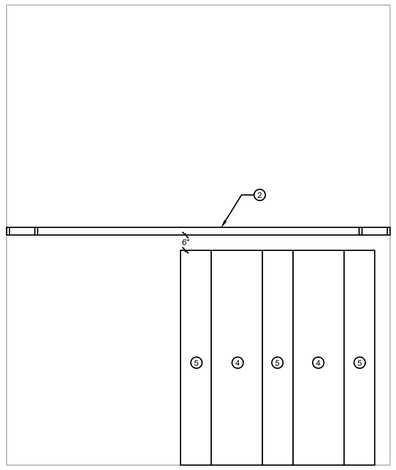
1. CEILING OR WALL MOUNT EQUIPMENT SHALL BE SECURED TO THE APPROPRIATE STRUCTURE USING THREADED ROD OR OTHER APPROVED METHODS. HARDWARE / STRUCTURE SHALL BE RATED TO SUPPORT 5X COMBINED WEIGHT OF EQUIPMENT AND MOUNTING HARDWARE.
2. FASTENING METHODS MUST BE SUITABLE FOR MOUNTING SURFACE AND SECURELY ANCHORED SO THAT VIBRATION OR ABUSIVE PULLING WILL NOT WEAKEN INSTALLATION.
3. EQUIPMENT WHICH MEET THE FOLLOWING PARAMETERS MAY BE ANCHORED WITHOUT SPECIFIC DETAIL DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING APPROPRIATE SUPPORT / FASTENING METHODS FOR THIS EQUIPMENT. THE SUPPORT / FASTENING METHODS FOR THIS EQUIPMENT SHALL MEET THE STANDARDS NOTED ABOVE.
   A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
   B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR HUNG FROM A WALL.

STRUCTURAL MOUNTING SHEET NOTES 16

ITEM	DESCRIPTION	MFG/MODEL	BY	APPROX WT
14	DEDICATED HVAC SPLIT SYSTEM, FOR REFERENCE ONLY, SEE MECHANICAL DRAWINGS	PER DIV 23	EC	PER DIV 26
13	POWER - (1) L5-30 OUTLET ON DEDICATED CIRCUIT, INDEPENDENTLY SUSPENDED FROM CEILING STRUCTURE REFERENCE ONLY, SEE ELECTRICAL DRAWINGS	PER DIV 26	EC	PER DIV 26
12	POWER - (2) L6-20 OUTLETS AND (1) QUAD 20 A/120V RECEPTACLE ON DEDICATED CIRCUITS, LOCATE OUTLETS CENTERED ABOVE REAR OF RACK, INDEPENDENTLY SUSPENDED FROM CEILING STRUCTURE FROM REFERENCE ONLY, SEE ELECTRICAL DRAWINGS	PER DIV 26	EC	PER DIV 26
11	LIGHTING - FRONT LIGHT SHALL BE ON EMERGENCY POWER FROM REFERENCE ONLY, SEE ELECTRICAL DRAWINGS	PER DIV 26	EC	PER DIV 26
10	GROUND BUS BAR, MOUNT 96" AFF	PER DIV 26	EC	PER DIV 26
9	4" OSP TELECOM CONDUIT TERMINATION INTO ROOM FOR COORDINATION ONLY, SEE SITE UTILITY DRAWINGS	PER DIV 26	EC	PER DIV 26
8	CONDUIT HOME RUN FROM DATA OUTLETS SEE FLOOR PLANS FOR LOCATIONS	PER DIV 26	EC	PER DIV 26
7	4" CONDUIT SLEEVE SEE DETAIL 13/TN7.02 FOR MOUNTING REQUIREMENTS	PER DIV 26	EC	PER DIV 26
6	4" CONDUIT RISER FROM BDF SEE DETAIL 13/TN7.02 FOR MOUNTING REQUIREMENTS	PER DIV 26	EC	PER DIV 26
5	DOUBLE SIDED VERTICAL CABLE MANAGER WITH LARGE RADIUS DROP FROM CABLE TRAY (24 1/2"D x 12"W x 84"H)	PER SPEC SECTION 27 1000	TC	50 LBS
4	2-POST EQUIPMENT RACK (15"D x 20"W x 84"H - 45RU) SEE DETAIL 9/TN7.02 FOR MOUNTING REQUIREMENTS	PER SPEC SECTION 27 1000	TC	80 LBS
3	18" CABLE TRAY SYSTEM - LADDER STYLE VERTICALLY MOUNTED SEE DETAIL 11/TN7.02 FOR MOUNTING REQUIREMENTS	PER SPEC SECTION 27 1000	TC	16 LBS/LF
2	18" CABLE TRAY SYSTEM - LADDER STYLE HORIZONTALLY MOUNTED SEE DETAIL 7/TN7.02 FOR MOUNTING REQUIREMENTS	PER SPEC SECTION 27 1000	TC	16 LBS/LF
1	TELECOM BACKBOARDS - FIRE RESISTANT TREATED PLYWOOD - ALL WALLS	PER DIV 06	GC	70 LBS

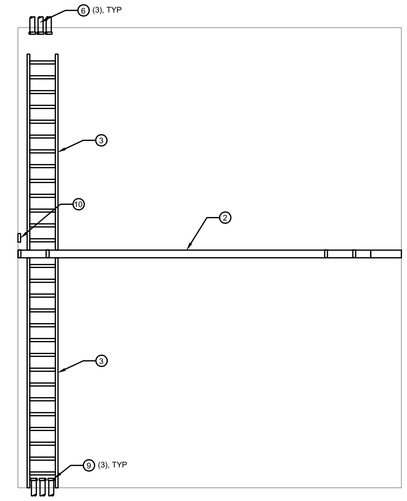
NOTE:
1. POWER AND LIGHTING ARE SHOWN FOR REFERENCE ONLY. REFER TO ELECTRICAL DRAWINGS.
2. CABLE TRAY SYSTEMS SHALL BE INDEPENDENTLY MOUNTED/SUSPENDED FROM CEILING STRUCTURE. CABLE TRAY SUPPORTS SHALL NOT BE CONNECTED TO OR SUPPORTED BY EQUIPMENT RACKS.
3. ALL IDF/BDF INFRASTRUCTURE WILL BE STAGED, INSPECTED AND APPROVED BY CLPCCD ITS BEFORE FINAL INSTALLATION MAY PROCEED.

NOTES 3



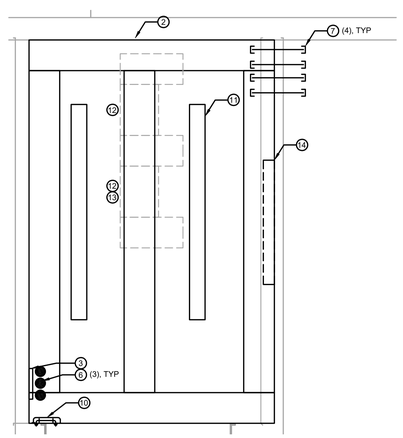
BDF (111.2) EQUIPMENT RACK SECTION 6

SCALE: 1/2" = 1'-0"



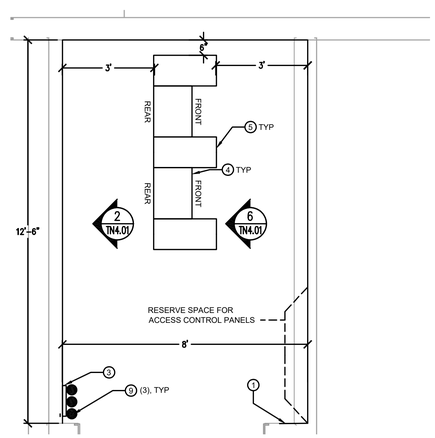
BDF (111.2) PLAN SOUTH SECTION 2

SCALE: 1/2" = 1'-0"



BDF (111.2) REFLECTED CEILING PLAN 5

SCALE: 1/2" = 1'-0"



BDF (111.2) ENLARGED FLOOR PLAN 1

SCALE: 1/2" = 1'-0"

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DSA BACKCHECK SUBMITTAL #2

2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

date	issue description

STATE OF CALIFORNIA
C-7 2715
RENEWAL DATE 08/31/2025
REGISTERED PROFESSIONAL ENGINEER

CHABOT M+O
25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: NOVEMBER 15, 2024

ENLARGED PLANS

TN4.01

1. CEILING OR WALL MOUNT EQUIPMENT SHALL BE SECURED TO THE APPROPRIATE STRUCTURE USING THREADED ROD OR OTHER APPROVED METHODS. HARDWARE / STRUCTURE SHALL BE RATED TO SUPPORT 5X COMBINED WEIGHT OF EQUIPMENT AND MOUNTING HARDWARE.
2. FASTENING METHODS MUST BE SUITABLE FOR MOUNTING SURFACE AND SECURELY ANCHORED SO THAT VIBRATION OR ABUSIVE PULLING WILL NOT WEAKEN INSTALLATION.
3. EQUIPMENT WHICH MEET THE FOLLOWING PARAMETERS MAY BE ANCHORED WITHOUT SPECIFIC DETAIL DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING APPROPRIATE SUPPORT / FASTENING METHODS FOR THIS EQUIPMENT. THE SUPPORT / FASTENING METHODS FOR THIS EQUIPMENT SHALL MEET THE STANDARDS NOTED ABOVE.
   A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
   B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR HUNG FROM A WALL.

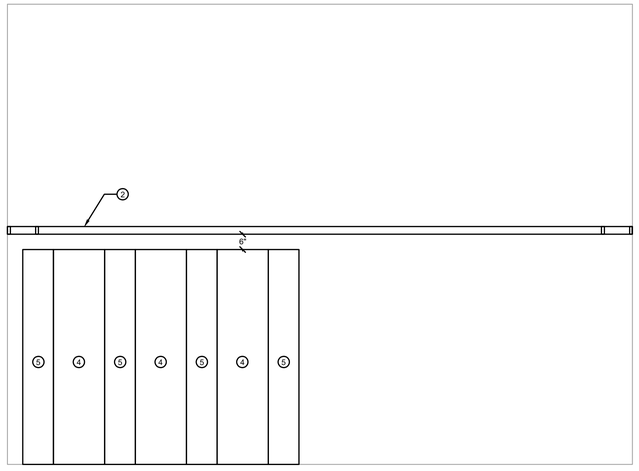
STRUCTURAL MOUNTING SHEET NOTES 16

SCALE: NTS

14	DEDICATED HVAC SPLIT SYSTEM, FOR REFERENCE ONLY, SEE MECHANICAL DRAWINGS	PER DIV 23	EC	PER DIV 26
13	POWER - (1) L5-30 OUTLET ON DEDICATED CIRCUIT, INDEPENDENTLY SUSPENDED FROM CEILING STRUCTURE REFERENCE ONLY, SEE ELECTRICAL DRAWINGS	PER DIV 26	EC	PER DIV 26
12	POWER - (2) L6-20 OUTLETS AND (1) QUAD 20 A/120V RECEPTACLE ON DEDICATED CIRCUITS, LOCATE OUTLETS CENTERED ABOVE REAR OF RACK, INDEPENDENTLY SUSPENDED FROM CEILING STRUCTURE FROM REFERENCE ONLY, SEE ELECTRICAL DRAWINGS	PER DIV 26	EC	PER DIV 26
11	LIGHTING - FRONT LIGHT SHALL BE ON EMERGENCY POWER FROM REFERENCE ONLY, SEE ELECTRICAL DRAWINGS	PER DIV 26	EC	PER DIV 26
10	GROUND BUS BAR, MOUNT 96" AFF	PER DIV 26	EC	PER DIV 26
9	4" OSP TELECOM CONDUIT TERMINATION INTO ROOM FOR COORDINATION ONLY, SEE SITE UTILITY DRAWINGS	PER DIV 26	EC	PER DIV 26
8	CONDUIT HOME RUN FROM DATA OUTLETS SEE FLOOR PLANS FOR LOCATIONS	PER DIV 26	EC	PER DIV 26
7	4" CONDUIT SLEEVE SEE DETAIL 13/TN7.02 FOR MOUNTING REQUIREMENTS	PER DIV 26	EC	PER DIV 26
6	4" CONDUIT RISER FROM BDF SEE DETAIL 13/TN7.02 FOR MOUNTING REQUIREMENTS	PER DIV 26	EC	PER DIV 26
5	DOUBLE SIDED VERTICAL CABLE MANAGER WITH LARGE RADIUS DROP FROM CABLE TRAY (24 1/2"D x 12"W x 84"H)	PER SPEC SECTION 27 1000	TC	50 LBS
4	2-POST EQUIPMENT RACK (15"D x 20"W x 84"H - 45RU) SEE DETAIL 9/TN7.02 FOR MOUNTING REQUIREMENTS	PER SPEC SECTION 27 1000	TC	80 LBS
3	18" CABLE TRAY SYSTEM - LADDER STYLE VERTICALLY MOUNTED SEE DETAIL 11/TN7.02 FOR MOUNTING REQUIREMENTS	PER SPEC SECTION 27 1000	TC	16 LBS/LF
2	18" CABLE TRAY SYSTEM - LADDER STYLE HORIZONTALLY MOUNTED SEE DETAIL 7/TN7.02 FOR MOUNTING REQUIREMENTS	PER SPEC SECTION 27 1000	TC	16 LBS/LF
1	TELECOM BACKBOARDS - FIRE RESISTANT TREATED PLYWOOD - ALL WALLS	PER DIV 06	GC	70 LBS
ITEM	DESCRIPTION	MFG/MODEL	BY	APPROX WT

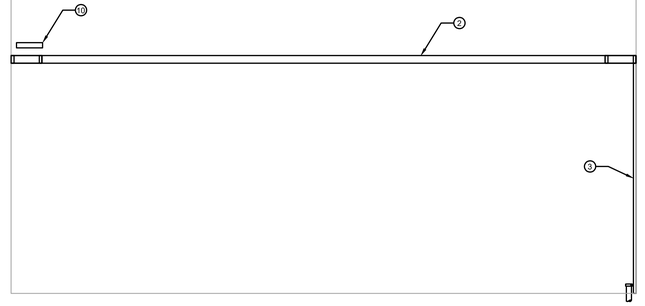
NOTE:
1. POWER AND LIGHTING ARE SHOWN FOR REFERENCE ONLY. REFER TO ELECTRICAL DRAWINGS.
2. CABLE TRAY SYSTEMS SHALL BE INDEPENDENTLY MOUNTED/SUSPENDED FROM CEILING STRUCTURE. CABLE TRAY SUPPORTS SHALL NOT BE CONNECTED TO OR SUPPORTED BY EQUIPMENT RACKS.
3. ALL IDF/BDF INFRASTRUCTURE WILL BE STAGED, INSPECTED AND APPROVED BY CLPCCD ITS BEFORE FINAL INSTALLATION MAY PROCEED.

NOTES 3



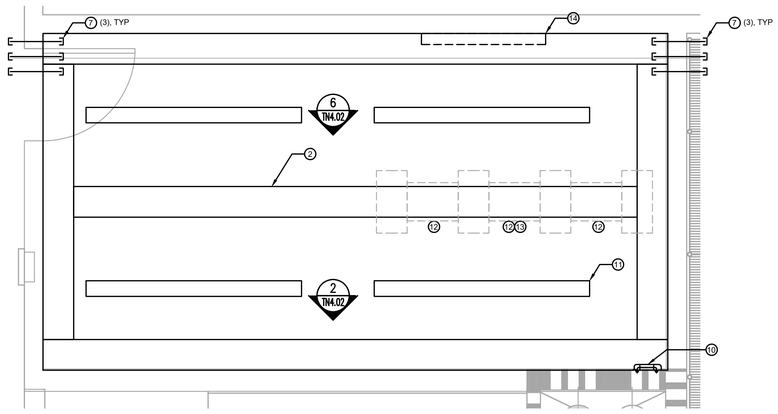
IDF (207) EQUIPMENT RACK SECTION 6

SCALE: 1/2" = 1'-0"



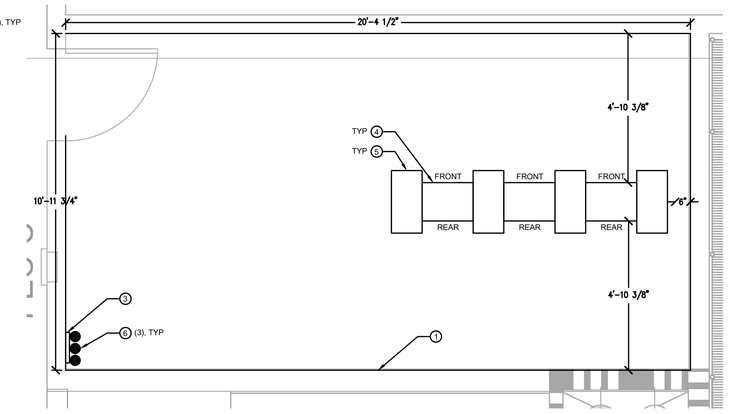
IDF (207) PLAN SOUTH SECTION 2

SCALE: 1/2" = 1'-0"



IDF (207) REFLECTED CEILING PLAN 5

SCALE: 1/2" = 1'-0"



IDF (207) ENLARGED FLOOR PLAN 1

SCALE: 1/2" = 1'-0"

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date	issue description

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ELECTRICAL

CHABOT M+O

25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: NOVEMBER 15, 2024

ENLARGED PLANS

TN4.02

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1	HIGH DENSITY FIBER SPLICE CASSETTE (24) DUPLEX SC CONNECTORS FOR CABLING FROM MPOE AND (12) DUPLEX SC CONNECTORS FOR CABLING TO IDF	45
2		44
3		43
4		42
5	48P ANGLED CAT6A PATCH PANEL - FOR VOICE BACKBONE FROM BET	41
6		40
7	48P ANGLED CAT6A PATCH PANEL - FOR VOICE BACKBONE FROM BET	39
8		38
9	48P ANGLED CAT6A PATCH PANEL - FOR VOICE BACKBONE FROM BET	37
10		36
11	48P ANGLED CAT6A PATCH PANEL - FOR VOICE BACKBONE TO IDF	35
12		34
13	48P ANGLED CAT6A PATCH PANEL - FOR VOICE BACKBONE TO IDF	33
14		32
15	RESERVE FOR OWNER FURNISHED ACTIVE EQUIPMENT	31
16		30
17		29
18		28
19		27
20		26
21		25
22		24
23		23
24		22
25		21
26		20
27		19
28		18
29		17
30		16
31		15
32		14
33		13
34		12
35		11
36		10
37		9
38		8
39		7
40		6
41		5
42		4
43		3
44		2
45		1

BACKBONE CABLING

1	48P ANGLED CAT6A PATCH PANEL - FOR VOICE STATION CABLES	45
2		44
3	48P ANGLED CAT6A PATCH PANEL - FOR VOICE STATION CABLES	43
4		42
5	48P ANGLED CAT6A PATCH PANEL - FOR DATA STATION CABLES	41
6		40
7	48P ANGLED CAT6A PATCH PANEL - FOR DATA STATION CABLES	39
8		38
9	48P ANGLED CAT6A PATCH PANEL - FOR DATA STATION CABLES	37
10		36
11	RESERVE FOR OWNER FURNISHED ACTIVE EQUIPMENT	35
12		34
13		33
14		32
15		31
16		30
17		29
18		28
19		27
20		26
21		25
22		24
23		23
24		22
25		21
26		20
27		19
28		18
29		17
30		16
31		15
32		14
33		13
34		12
35		11
36		10
37		9
38		8
39		7
40		6
41		5
42		4
43		3
44		2
45		1

STATION CABLING

BDF (111.2) RACK ELEVATIONS 9

1	48P ANGLED CAT6A PATCH PANEL - FOR DATA STATION CABLES	45
2		44
3	48P ANGLED CAT6A PATCH PANEL - FOR DATA STATION CABLES	43
4		42
5	RESERVE FOR OWNER FURNISHED ACTIVE EQUIPMENT	41
6		40
7		39
8		38
9		37
10		36
11		35
12		34
13		33
14		32
15		31
16		30
17		29
18		28
19		27
20		26
21		25
22		24
23		23
24		22
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26		20
27		19
28		18
29		17
30		16
31		15
32		14
33		13
34		12
35		11
36		10
37		9
38		8
39		7
40		6
41		5
42		4
43		3
44		2
45		1

STATION CABLING

1	HIGH DENSITY FIBER SPLICE CASSETTE (12) DUPLEX SC CONNECTORS	45
2		44
3	48P ANGLED CAT6A PATCH PANEL - FOR VOICE BACKBONE	43
4		42
5	48P ANGLED CAT6A PATCH PANEL - FOR VOICE BACKBONE	41
6		40
7	48P ANGLED CAT6A PATCH PANEL - FOR VOICE STATION CABLES	39
8		38
9	48P ANGLED CAT6A PATCH PANEL - FOR VOICE STATION CABLES	37
10		36
11	RESERVE FOR OWNER FURNISHED ACTIVE EQUIPMENT	35
12		34
13		33
14		32
15		31
16		30
17		29
18		28
19		27
20		26
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22		24
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34		12
35		11
36		10
37		9
38		8
39		7
40		6
41		5
42		4
43		3
44		2
45		1

BACKBONE AND VOICE CABLING

1	48P ANGLED CAT6A PATCH PANEL - FOR DATA STATION CABLES	45
2		44
3	48P ANGLED CAT6A PATCH PANEL - FOR DATA STATION CABLES	43
4		42
5	RESERVE FOR OWNER FURNISHED ACTIVE EQUIPMENT	41
6		40
7		39
8		38
9		37
10		36
11		35
12		34
13		33
14		32
15		31
16		30
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18		28
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26		20
27		19
28		18
29		17
30		16
31		15
32		14
33		13
34		12
35		11
36		10
37		9
38		8
39		7
40		6
41		5
42		4
43		3
44		2
45		1

STATION CABLING

IDF (207) RACK ELEVATIONS 1

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⚠	date	issue description

STATE OF CALIFORNIA
C-21 15
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REGISTERED ARCHITECT

CHABOT M+O

25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: NOVEMBER 15, 2024

RACK ELEVATIONS

TN5.01

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   B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR HUNG FROM A WALL.

STRUCTURAL MOUNTING SHEET NOTES — 16

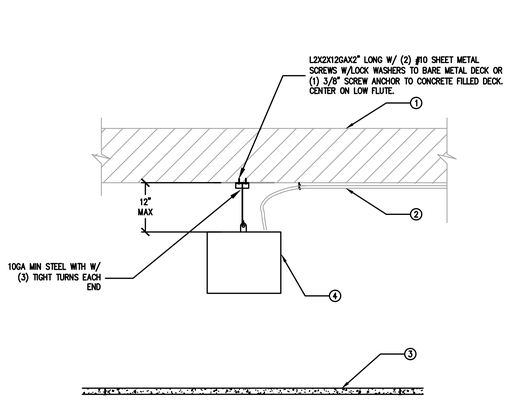
SCALE: NTS

TYPE E DATA OUTLET — ▽E 14

SCALE: NTS

TYPE D DATA OUTLET — ▽D 10

SCALE: NTS

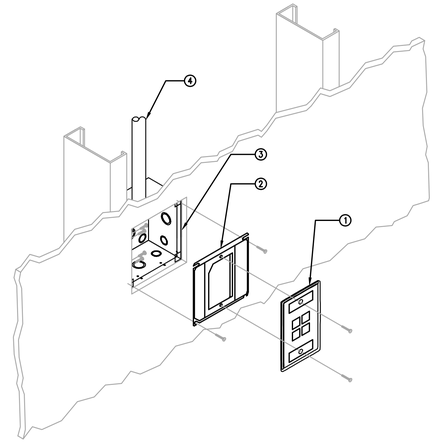


4	PLENUM RATED DATA OUTLET	PER SPEC SECTION 27 1000	DC
3	ACT TILE CEILING	AS SPECIFIED	GC
2	CAT 6A CABLING TO NEAREST IDF	PER SPEC SECTION 27 1000	DC
1	DECKING ABOVE	AS SPECIFIED	GC
ITEM	DESCRIPTION	MFG/MODEL	BY

NOTE:
1. PROVIDE 24" SERVICE LOOP AT J-HOOK ABOVE EACH DATA OUTLET LOCATION.
2. HARDWARE /STRUCTURE SHALL BE RATED TO SUPPORT A MINIMUM OF 5 LBS.

ABOVE CEILING DATA OUTLET — 6

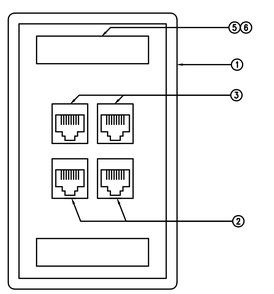
SCALE: NTS



4	CONDUIT	AS SPECIFIED	EC
3	5" SQUARE, 2 7/8" DEEP BOX	RANDL TELECOMMUNICATIONS/T-55017	EC
2	MUD RING	AS SPECIFIED	EC
1	DATA OUTLET WALL PLATE	PER SPEC SECTION 27 1000	LVC
ITEM	DESCRIPTION	MFG/MODEL	BY

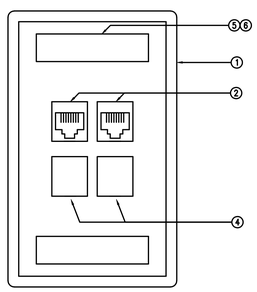
NOTE:
1. PROVIDE 24" SERVICE LOOP AT J-HOOK ABOVE EACH DATA OUTLET LOCATION.

WALL MOUNT DATA OUTLET — 2



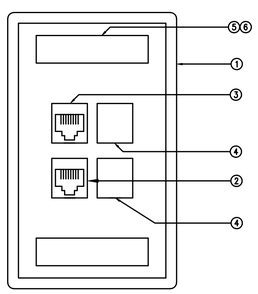
TYPE C DATA OUTLET — ▽C 13

SCALE: NTS



TYPE B DATA OUTLET — ▽B 9

SCALE: NTS



TYPE A DATA OUTLET — ▽A 5

SCALE: NTS

7	WALL PHONE FACEPLATE WITH (1) PORT, IDENTIFICATION LABEL WITH CLEAR COLOR, TELEPHONE MOUNTING STUDS, AND MOUNTING SCREWS.	DC	1
6	PROVIDE LABELING AND FACE PLATE IDENTIFICATION PER CLPCCD ITS AT TELECOM PRE-CONSTRUCTION MEETING.	DC	AS REQ.
5	CLEAR DESIGNATION STRIP COVER, LABEL SHALL BE PLACED BEHIND COVER AND SHALL NOT BE ADHERED TO IT. LABEL SHALL BE LASER PRINTED ON WHITE BACKGROUND. USE HELVETICA 10 POINT AS LABELING FONT.	DC	AS REQ.
4	BLANK	DC	AS REQ.
3	8 PIN 8 POSITION, T568B CATEGORY 6A JACK, WHITE FOR VOICE STATION CABLE TERMINATION.	DC	AS REQ.
2	8 PIN 8 POSITION, T568B CATEGORY 6A JACK, BLUE FOR DATA CABLE TERMINATION.	DC	AS REQ.
1	SINGLE GANG FACEPLATE WITH (4) PORTS, IDENTIFICATION LABELS WITH CLEAR COLOR AND MOUNTING SCREWS	DC	1
ITEM	DESCRIPTION	BY	QTY.

TELECOM PARTS AND QUANTITIES — 1

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REGISTERED ARCHITECT C-31115 RENEWAL DATE OF CALIFORNIA

CHABOT M+O

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project number: 20-296
date: NOVEMBER 15, 2024

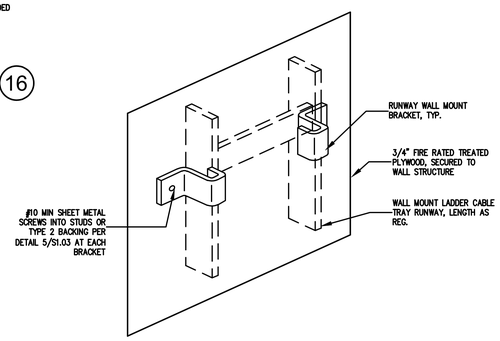
COORDINATION DETAILS

TN7.01

1. CEILING OR WALL MOUNT EQUIPMENT SHALL BE SECURED TO THE APPROPRIATE STRUCTURE USING THREADED ROD OR OTHER APPROVED METHODS. HARDWARE / STRUCTURE SHALL BE RATED TO SUPPORT 5X COMBINED WEIGHT OF EQUIPMENT AND MOUNTING HARDWARE.
2. FASTENING METHODS MUST BE SUITABLE FOR MOUNTING SURFACE AND SECURELY ANCHORED SO THAT VIBRATION OR ABUSIVE PULLING WILL NOT WEAKEN INSTALLATION.
3. EQUIPMENT WHICH MEET THE FOLLOWING PARAMETERS MAY BE ANCHORED WITHOUT SPECIFIC DETAIL DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING APPROPRIATE SUPPORT / FASTENING METHODS FOR THIS EQUIPMENT. THE SUPPORT / FASTENING METHODS FOR THIS EQUIPMENT SHALL MEET THE STANDARDS NOTED ABOVE.
   A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
   B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR HUNG FROM A WALL.

STRUCTURAL MOUNTING SHEET NOTES (16)

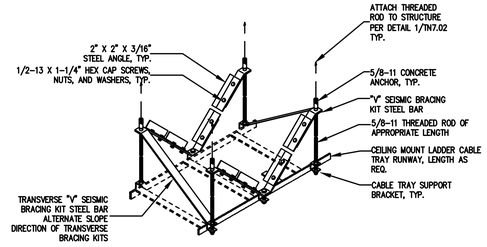
SCALE: NTS



1. THE CONTRACTOR SHALL FURNISH AND INSTALL CABLE TRAYS AND CABLE TRAY SUPPORTS PER MANUFACTURER'S REQUIREMENTS.
2. THE CONTRACTOR SHALL FURNISH AND INSTALL RUNWAY WALL MOUNT BRACKET EVERY 48" OC.
3. HARDWARE /STRUCTURE SHALL BE RATED TO SUPPORT A MINIMUM OF 80 LBS / FT.

WALL MOUNT LADDER CABLE TRAY (11)

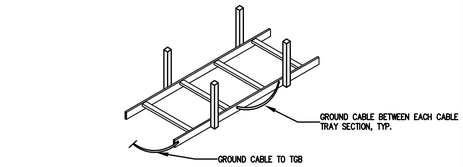
SCALE: NTS



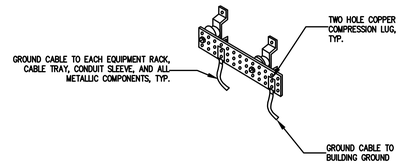
1. ALL CABLE TRAYS SHALL BE SUSPENDED FROM AN OVERHEAD STRUCTURE
2. THE CONTRACTOR SHALL FURNISH AND INSTALL CABLE TRAYS AND CABLE TRAY SUPPORTS PER MANUFACTURER'S REQUIREMENTS.
3. THE CONTRACTOR SHALL FURNISH AND INSTALL SEISMIC BRACING KITS FOR BOTH LINEAR AND TRANSVERSE DIRECTION EVERY 8 LF OF CABLE TRAY.
4. HARDWARE /STRUCTURE SHALL BE RATED TO SUPPORT A MINIMUM OF 80 LBS / FT.

CABLE MOUNT LADDER CABLE TRAY (7)

SCALE: NTS



TYPICAL CABLE TRAY GROUNDING AND BONDING

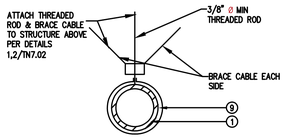


TYPICAL TGB CONNECTIONS

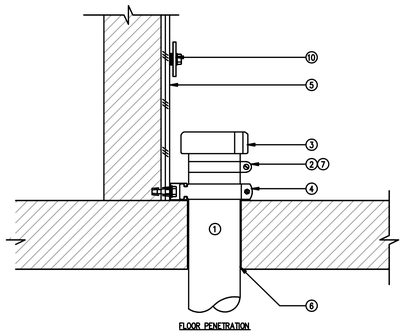
1. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL DEDICATED TELECOMMUNICATIONS GROUND BUS BAR (TGB) TO WHICH ALL COMPONENTS ARE GROUNDED WITH A #6 AWG GROUND WIRE. THE MINIMUM SIZE OF BUS BARS SHALL BE 4"W X 12"L X 1/2"H. ALL TELECOMMUNICATIONS GROUND BUS BAR SHALL BE BONDED TO THE BUILDING GROUND
2. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A MINIMUM OF (1) #6 AWG STRANDED GROUNDING CONDUCTOR AND (1) TWO-HOLE COPPER COMPRESSION LUG FOR EACH EQUIPMENT RACK, CABLE TRAY, CONDUIT SLEEVE, AND ALL OTHER METALLIC COMPONENTS AS REQUIRED.
3. THIS DETAIL IS DIAGRAMMATIC AND DOES NOT REPRESENT ACTUAL INSTILLATION LOCATIONS. SEE TELECOM ENLARGED PLANS FOR EQUIPMENT LOCATIONS. SEE ELECTRICAL DRAWINGS AND DETAILS FOR ADDITIONAL GROUNDING INFORMATION.

TELECOMMUNICATIONS GROUNDING DETAIL (3)

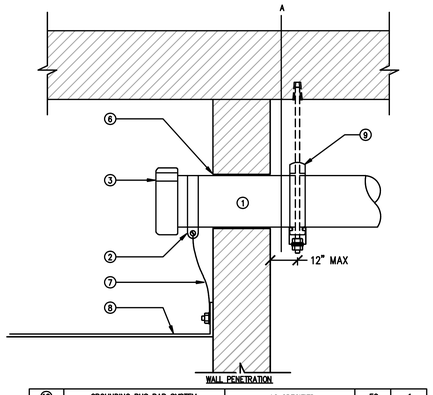
SCALE: NTS



SECTION A – TYPICAL CONDUIT HANGER SYSTEM



FLOOR PENETRATION

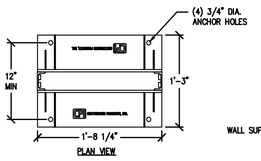


WALL PENETRATION

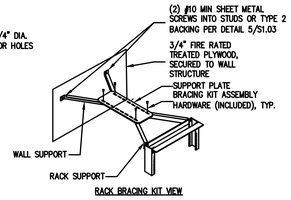
ITEM	DESCRIPTION	MFG/MODEL	BY	QTY.
10	GROUNDING BUS BAR SYSTEM	AS SPECIFIED	EC	1
9	CONDUIT HANGER SYSTEM	AS SPECIFIED	EC	1
8	CABLE TRAY SYSTEM	PER SPEC SECTION 27 1000	DC	1
7	GROUNDING CONDUCTOR	PER SPEC SECTION 27 1000	DC	AS REQ.
6	FIRESTOPPING AS REQUIRED BY PENETRATION	PER SPEC SECTION 27 1000	DC	AS REQ.
5	PLYWOOD BACKBOARD	AS SPECIFIED	EC	2
4	CHANNEL/SUPPORT STRAPS	PER SPEC SECTION 27 1000	DC	AS REQ.
3	PLASTIC INSULATING BUSHING	PER SPEC SECTION 27 1000	DC	1
2	GROUNDING/BONDING BUSHING/WEDGE	PER SPEC SECTION 27 1000	DC	AS REQ.
1	ENTRANCE/RISER CONDUIT	PER SPEC SECTION 27 1000	EC	1

ENTRANCE/RISER CONDUIT END FITTING DETAIL (13)

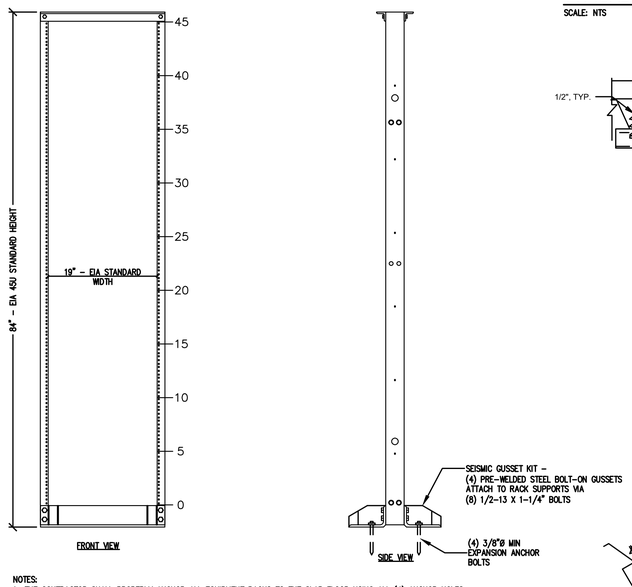
SCALE: NTS



PLAN VIEW



RACK BRACING KIT VIEW



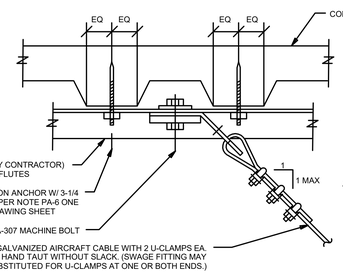
FRONT VIEW

SIDE VIEW

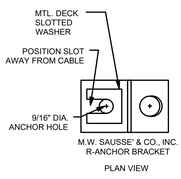
NOTES:
1. THE CONTRACTOR SHALL PROPERLY ANCHOR ALL EQUIPMENT RACKS TO THE SLAB FLOOR USING ALL (4) ANCHOR HOLES. THE ANCHORING SHALL USE HILTI ANCHOR BOLTS AND PASS A 45 LBS. TORQUE TEST.
2. THE CONTRACTOR SHALL PROPERLY BOND AND GROUND ALL EQUIPMENT RACKS TO THE TELECOM GROUNDING BUSBAR.
3. THE CONTRACTOR SHALL FURNISH AND INSTALL RACK BRACING KIT. HARDWARE / STRUCTURE SHALL BE RATED TO SUPPORT A MINIMUM OF 400 LBS.

TWO-POST RACK DETAIL (9)

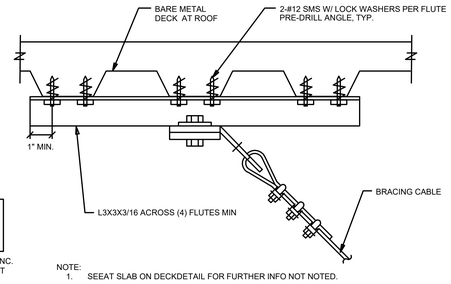
SCALE: NTS



AT SLAB ON DECK



PLAN VIEW

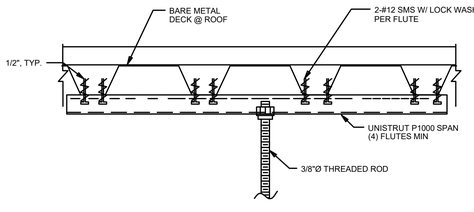


NOTE:
1. SEEAT SLAB ON DECKDETAIL FOR FURTHER INFO NOT NOTED.

AT ROOF DECK

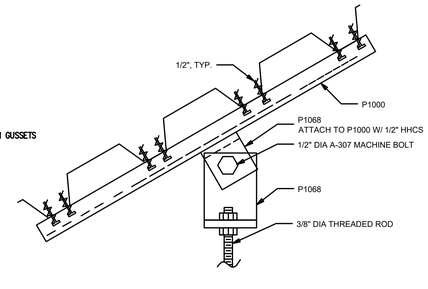
TYPICAL BRACE CABLE ATTACHEMENT TO DECK (2)

SCALE: NTS

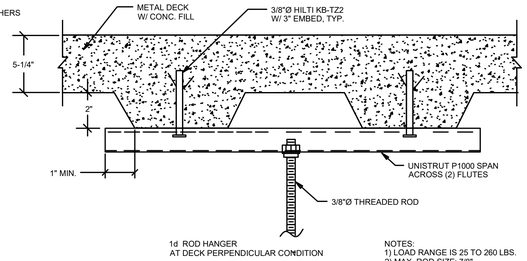


1a ROD HANGER
AT DECK PERPENDICULAR CONDITION AND PARALLEL

NOTES:
1. MAX LOAD FOR UNIT SUSPENDED FROM BARE METAL DECK IS 200 LBS. FOR LARGER UNITS ATTACH TO STRUCTURE WITH SPREADER BEAM PER CONDITION A AND C ON STRUCTURAL DETAIL 17/SS.01.

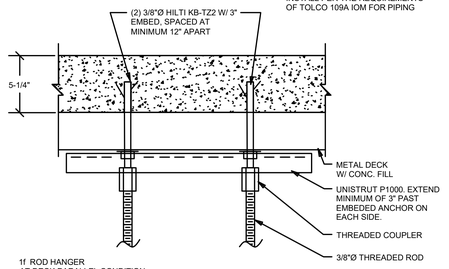


1f ROD HANGER
AT DECK PARALLEL CONDITION



1d ROD HANGER
AT DECK PERPENDICULAR CONDITION

NOTES:
1) LOAD RANGE IS 25 TO 260 LBS.
2) MAX. ROD SIZE: 7/8"
3) DEFLECTION = 0.20"
4) 1D ROD HANGER ALTERNATE 1: INSTALL PER THE REQUIREMENTS OF TOLCO 109A IOM FOR PIPING



TYPICAL THEADED ROD ATTACHEMENT TO DECK (1)

SCALE: NTS

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DATE: 2/19/2025

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DSA BACKCHECK SUBMITTAL #2

	date	issue description
2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

REGISTERED ARCHITECT C-31715 RENEWAL DATE STATE OF CALIFORNIA

CHABOT M+O

25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: NOVEMBER 15, 2024

COORDINATION DETAILS

TN7.02

DESCRIPTION	QTY.	DISPLAY SIZE - DIAGONAL (INCHES)	FORMAT	MOUNTING HEIGHT	MOUNTING	WEIGHT	MANUFACTURER	MODEL	NOTES
MEETING ROOM 1	1	65	3,840 x 2,160	SEE AV ELEVATIONS FOR MOUNTING HEIGHTS	WALL / LANDSCAPE	54 Lbs.	SAMSUNG	QN65QN90C	
MEETING ROOM 2	1	65	3,840 x 2,160	SEE AV ELEVATIONS FOR MOUNTING HEIGHTS	WALL / LANDSCAPE	54 Lbs.	SAMSUNG	QN65QN90C	

DISPLAY SCHEDULE

4

SYMBOL	DESCRIPTION	TYPE , SIZE , FLUSH MOUNT (UON)	FURNISHED / INSTALLED BY	MOUNTING HEIGHT	MOUNT LOCATION (UON)	BLOCKING	COORDINATION DETAIL	INTERFACE PLATE DETAIL	NOTES
WB AV	AV JUNCTION BOX	2-GANG 2 1/2" DEEP WALL BOX	EC/EC	SEE RISER DIAGRAM FOR MOUNTING HEIGHT	WALL	N	DETAIL 5,11/TA7.01	--	PROVIDE (1) 20A/120VAC DUPLEX RECEPTACLE ON DEDICATED CIRCUIT AND (1) PROJECT TYPICAL DATA OUTLET LOCATED IN BOX
WB FPD	FLAT PANEL DISPLAY WALL BOX	CHIEF PAC 526 - Ph. (866)-977-3901	EC/EC		WALL	Y	DETAIL 1/TA.701	--	PROVIDE (1) 20A/120VAC DUPLEX RECEPTACLE ON DEDICATED CIRCUIT AND (1) PROJECT TYPICAL DATA OUTLET LOCATED IN BOX
CB PJR	PROJECTOR CEILING BOX	2-GANG 2 1/2" DEEP WALL BOX	EC/EC	MOUNT AT CEILING TILE	CEILING	N	--	--	PROVIDE (1) 20A/120VAC DUPLEX RECEPTACLE ON DEDICATED CIRCUIT AND (1) PROJECT TYPICAL DATA OUTLET LOCATED ADJACENT TO BOX
WB SB	SOUNDBAR WALL BOX	2-GANG 2 1/2" DEEP WALL BOX	EC/EC	SEE RISER DIAGRAM FOR MOUNTING HEIGHT	WALL	N	DETAIL 8/TA.701	--	
WB PSC	PROJECTION SCREEN CONTROL WALL BOX	2-GANG 2 1/2" DEEP WALL BOX	EC/EC	SEE RISER DIAGRAM FOR MOUNTING HEIGHT	WALL	N	--	--	

BACK BOX SCHEDULE

3

DESCRIPTION OF WORK - FURNISH / INSTALL / TEST	CONTRACTOR				O
INFRASTRUCTURE	**GC**	**EC**	**AVC**	**TC**	
CONSTRUCTION SCHEDULE AND ROOM READY DATES	X				
FIRE PROOFING FOR CONDUIT SLEEVES PENETRATING WALLS	X				
BLOCKING AND STRUCTURAL SUPPORT AS REQ.	X				
MILLWORK AS REQ.	X				
CONDUIT PATHWAYS AND JUNCTION BOXES		X			
FLOOR BOXES AND POKE-THRUS		X			
POWER RECEPTACLES		X			
CATEGORY 6A CABLING AND TERMINATIONS				X	
CABLE SUPPORTS FOR AV CABLING			X		
AV	**GC**	**EC**	**AVC**	**TC**	**O**
PROJECTION SCREEN	(I)		(F)		
AV CABLING (HDMI CABLES, PATCH CORDS, ANALOG AUDIO CABLING, ETC.)			X		
AV CABLING TERMINATIONS			X		
AV INTERFACE PLATES			X		
ALL AUDIO DEVICES PER DRAWINGS AND SPECIFICATIONS			X		
ALL VIDEO DEVICES PER DRAWINGS AND SPECIFICATIONS			X		
ALL CONTROL DEVICES PER DRAWINGS AND SPECIFICATIONS			X		
CONFIGURATION/PROGRAMMING OF ALL AV SYSTEM SETTINGS			X		
DIGITAL SIGNAGE CONTENT OR OTHER AV CONTENT					X
	CONTRACTOR				O
MISCELANEOUS	**GC**	**EC**	**AVC**	**TC**	
POWER STRIPS AND POWER DISTRIBUTION UNITS			X		
ALL MOUNTING HARDWARE			X		

LEGEND

CONTRACTOR REFERS TO THE CONSTRUCTION TEAM
GC = GENERAL CONTRACTOR
EC = ELECTRICAL CONTRACTOR
AVC = AUDIOVISUAL CONTRACTOR
TC = TELECOM CONTRACTOR
O = OWNER
X = FURNISH AND INSTALL
(I) = INSTALL
(F) = FURNISH

SCOPE OF WORK

6

1 POWER:
- A EACH CIRCUIT THAT SERVES TECHNOLOGY SYSTEMS MUST HAVE A DEDICATED GROUND AND NEUTRAL CONDUCTOR. SHARED GROUNDS AND NEUTRALS ARE NOT ACCEPTABLE.
- B ALL CIRCUITS ARE 120 VAC, 60 HZ, 1-PHASE, UON.
- C NOMINAL ELECTRICAL VOLTAGE IS 120 VAC. VOLTAGE MUST BE MAINTAINED WITH +/-10 PERCENT OF NOMINAL AT ALL TIMES FOR PROPER EQUIPMENT OPERATION.

2 TECHNOLOGY CONVEYANCE SYSTEM:
- A CONDUITS WHICH CARRY POWER MUST BE SEPARATED FROM TECHNOLOGY CONDUITS BY 12 INCHES FOR VOLTAGES OVER 100 VAC, 24 INCHES FOR VOLTAGES OVER 200 VAC AND 48 INCHES FOR ALL VOLTAGES OVER 300 VAC. WHERE POWER AND TECHNOLOGY CABLING AND CONDUIT CROSS, THEY SHOULD DO SO AT RIGHT ANGLES.
- B ALL CONDUIT SHALL BE CLEANED, DEBURRED, AND HAVE PULL-STRINGS INSTALLED.
- C ALL INTERIOR AND ABOVE GRADE CONDUIT SHALL BE SOLID FERRIC METALLIC. ALL CONDUIT BELOW GRADE SHALL BE PLASTIC. CONTRACTOR SHALL NOT CHANGE CONDUIT TYPE WITHOUT DESIGN CONSULTANT APPROVAL.
- D PROVIDE PULL BOXES USING SWEEP ELBOWS AS REQUIRED BY CONDUIT PATH, CABLE BEND RADIUS OR PULLING TENSION LIMITS.
- E BACK BOXES TO BE SET TO ALLOW ALL TECHNOLOGY FACEPLATES TO BE INSTALLED TIGHT TO THE ADJACENT SURFACE.

3 PRIOR TO THE START OF ACTIVE EQUIPMENT INSTALLATION THE EQUIPMENT SPACES SHALL BE:
- A CLEAN AND SEALED FROM DUST PRIOR TO EQUIPMENT INSTALLATION.
- B MAINTAINED AT A TEMPERATURE OF 72 ± 10 DEGREES FAHRENHEIT AT ALL TIMES.
- C MAINTAINED AT A RELATIVE HUMIDITY BETWEEN 40 AND 70 PERCENT AT ALL TIMES.

4 OWNER TO PROVIDE AND INSTALL ALL PHONE, DATA, CABLE AND NETWORK LINES.

5 ALL BLOCKING TO BE PROVIDED BY GC.

6 VENTS, GRILLS AND GROMMETS PROVIDED BY THE CASEWORK/MILLWORK VENDOR.

PROJECT SYMBOLS

2

- CONDUIT/RISER SLEEVE WITH BUSHING ABOVE ACCESSIBLE CEILING
- CONDUIT STUB-OUT INTO ACCESSIBLE CEILING, SAME ROOM
- TP# — CONDUIT HOME RUN TO LOCATION
- (2) 1-1/4" C — CONDUIT CALL OUT (#) DENOTES QUANTITY #-#/# DENOTES SIZE
- CEILING MOUNTED CONFERENCE CAMERA
- WB # — WALL BOX AS PER BACKBOX SCHEDULE ON TA0.01
- FLAT PANEL DISPLAY
- # / TA-000 — SECTION INDICATOR/LOCATOR. SEE ASSOCIATED SECTION. UPPER # INDICATES DETAIL NUMBER. LOWER # INDICATES SHEET.
- # / # / CM000 — DETAIL LOCATION ARROW

SHEET INDEX

1

DRAWINGS ISSUED LOG: 2/11/22 SCHEMATIC DESIGN; 2/10/23 SD PRICING SET; 12/15/23 100% DESIGN DEVELOPMENT; 01/16/24 100% DESIGN DEVELOPMENT; 08/09/23 50% CONSTRUCTION DOCUMENTS; 10/23/2024 DSA SUBMISSION

NUMBER	DRAWING NAME						
TA0.01	SHEET INDEX AND NOTES	X	X	X	X	X	X
TA1.01	GROUND LEVEL FLOOR PLAN	X	X	X	X	X	X
TA1.02	SECOND LEVEL FLOOR PLAN	X	X	X	X	X	X
TA3.01	ELEVATIONS						X
TA7.01	COORDINATION DETAILS	X	X	X	X	X	X
TA7.02	COORDINATION DETAILS						X

ABBREVIATIONS

13

TELECOMMUNICATIONS

110	TWISTED PAIR TERMINATION BLOCK
ADF	AREA DISTRIBUTION FACILITY
BDC	BUILDING DISTRIBUTION FRAME
BEF	BUILDING ENTRANCE FRAME
BO	BY OTHERS
CAB	TELECOM CABINET OR ENCLOSURE
CONN	CONNECTOR
CSC	COPPER SPLICE CLOSURE
CVE	CONTROLLED ENVIRONMENT VAULT
FDF	FIBER DISTRIBUTION FACILITY
FS	FIBER SHELF/FIBER TERMINATION PANEL
FSC	FIBER OPTIC SPLICE CLOSURE
HH	HANDHOLE
IDC	INTERMEDIATE DISTRIBUTION TELECOMMUNICATIONS ROOM
IDF	INTERMEDIATE DISTRIBUTION FRAME
ISP	INSIDE PLANT – CABLE WITHIN A BUILDING
IT	INFORMATION TECHNOLOGY
LAN	LOCAL AREA NETWORK
MDC	MAIN DISTRIBUTION TELECOMMUNICATIONS ROOM
MDF	MAIN DISTRIBUTION FRAME
MH	MANHOLE, MAINTENANCE HOLE
MPOE	MINIMUM POINT OF ENTRY
OCEF	OPTICAL CABLE ENTRANCE FACILITY
OSP	OUTSIDE PLANT – CABLE OUTSIDE A BUILDING
PAV	PAVEMENT
PC	PLASTIC CONDUIT
PG	PAIR GROUP
POP	POINT OF PRESENCE
PR	PAIR
PVC	POLYVINYL CHLORIDE
RU	RACK UNIT
R/W	RIGHT-OF-WAY
SC	SPLICE CLOSURE
SCS	STRUCTURED CABLING SYSTEM
SER	SERIAL
SMR	SURFACE MOUNTED RACEWAY
SS	FIBER SPLICE SHELF
TC	TELECOM CONDUIT
TCH	TELECOM CONDUIT SLEEVE, HORIZONTAL
TCR	TELECOM HORIZONTAL AND VERTICAL RISER CONDUIT
TCT	TELCOM CABLE TRAY
TEC	TELECOM ENTRANCE CONDUIT
TEL	TELEPHONE
TELECOM	TELECOMMUNICATIONS
TERM	TERMINAL
TP	TWISTED PAIR
TPB	TELECOM PULL BOX
TR	TELECOM ROOM
TSL	TELECOM WALL OR FLOOR SLOT
TSV	TELECOM CONDUIT SLEEVE, VERTICAL
WAN	WIDE AREA NETWORK

ELECTRICAL

A or AMP	AMPERE
BND	BOND(ING)
C	CONDUIT
ELEC	ELECTRIC(AL)
EMT	ELECTRICAL METALLIC TUBING
ENT	ELECTRICAL NON-METALLIC TUBING
GRC	GALVANIZED RIGID CONDUIT
GND	GROUND
Hz	HERTZ
IG	ISOLATED GROUND
IMC	INTERMEDIATE METALLIC CONDUIT
PB	PULL BOX
PLN	PANEL
PWR	POWER
UPS	UNITERRUPTABLE POWER SUPPLY
V	VOLT
VAC	VOLTS, ALTERNATING CURRENT
VDC	VOLTS, DIRECT CURRENT
W	WATT
XFMR	TRANSFORMER

GENERAL

(e)or(E)	EXISTING
(n)or(N)	NEW
ABV	ABOVE
ACH	ABOVE COUNTER HEIGHT
ACT	ACOUSTICAL CEILING TILE
ADJ	ADJUST(ABLE)
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ALT	ALTERNATE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL)
ASA	AMERICAN STANDARDS ASSOCIATION
AV	AUDIOVISUAL
AVC	AUDIOVISUAL CONTRACTOR
BET	BETWEEN
BFC	BELOW FINISHED CEILING
BLDG	BUILDING
BLW	BELOW
CB	CEILING BOX
C-C	CENTER TO CENTER
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
CMU	CONTRETE MASON UNIT
COL	COLUMN
CONC	CONGRETE
CONT	CONTINUOUS
COORD	COORDINATE, COORDINATION
CORR	CORRIDOR
DED	DEDICATE, DEDICATED
DEMO	DEMOLISH
DEPT	DEPARTMENT
DET	DETAIL
DIM	DIMENSION
DIST	DISTANCE
DTV	DATA TELECOMMUNICATION CONTRACTOR
DWG	DRAWING
EA	EACH
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVATION
EMERG	EMERGENCY
EQ.	EQUAL
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
EWB	ELECTRONIC WHITE BOARD
EXT	EXTERIOR
FCC	FEDERAL COMMUNICATIONS COMMISSION
FIN	FINISH
FLEX	FLEXIBLE
FLOR	FLOOR
FLOUR	FLOURESCENT
FUT	FUTURE
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GWB	GYPSUM WALL BOARD
IFC	IN FINISHED CEILING
IFF	IN FINISHED FLOOR
INCAND	INCANDESCENT
INCL	INCLUDE, INCLUDING
INFO	INFORMATION
INT	INTERIOR
LVI	LOW VOLTAGE INTERFACE
MAX	MAXIMUM
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, AND PLUMBING
MFG	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
NA	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOC.
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
No.	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFE	OWNER FURNISHED EQUIPMENT
OFOI	OWNER FURNISHED OWNER INSTALLED
OPP	OPPOSITE
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMIN.
OVHD	OVERHEAD
PLC	PERFORMANCE LIGHTING CONTRACTOR
PLY	PLYWOOD
PRI	PRIMARY
PROP	PROPOSED
PSC	PROJECTION SCREEN CONTROL
QTY	QUANTITY
RCP	REFLECTED CEILING PLAN
RCT	RECEPTACLE
REF	REFERENCE
REM	REMOVE
REPL	RELPACE
REQD	REQUIRED
RM	ROOM
SCHD	SCHEDULE
SECT	SECTION
SHT	DRAWING SHEET NUMBER OR SERIES
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
STD	STANDARD
STL	STEEL
SUSP	SUSPEND(ED)
SWT	SWITCH
SYM	SYMMETRICAL
TELC	TELECOMMUNICATIONS CONTRACTOR
TEMP	TEMPORARY
THK	THICK(NESS)
TIA/EIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION/ ELECTRONICS INDUSTRY ALLIANCE
TME	TO MATCH EXISTING
TYP	TYPICAL
UBC	UNIFORM BUILDING CODE
UC	UNDER COUNTER
UL	UNDERWRITERS LABORATORY
UON	UNLESS OTHERWISE NOTED
VF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WD	WOOD

MEASUREMENTS

BTU	BRITISH THERMAL UNIT
D or Dp	DEEP
DIA	DIAMETER
FT	FOOT or FEET
H or HGT	HEIGHT or HIGH
ID	INSIDE DIAMETER
In	INCH
L	LENGTH or LONG
Lb	POUND
LIN	LINEAR
M	METER
mm	MILLIMETER
OD	OUTSIDE DIAMETER
R	RADIUS
RAD	RADIANS
um	MICRON
W	WIDE
WT	WEIGHT
YD	YARD

DIRECTIONAL

DN	DOWN
E	EAST
HORIZ	HORIZONTAL
L	LEFT
LH	LEFT HAND
N	NORTH
PERP	PERPENDICULAR
R	RIGHT
RH	RIGHT HAND
S	SOUTH
VERT	VERTICAL
W	WEST

SYMBOLS

#	POUND or NUMBER
&	AND
@	AT
'	FOOT or FEET
"	INCH or INCHES
+/- or ±	PLUS OR MINUS
<	LESS THAN
=	EQUAL
>	GREATER THAN
°	DEGREES, ANGULAR MEASURE
Ω	OHM
| |	PARALLEL
ø	DIAMETER
∠	ANGLE

COLOR CODE

A	ALMOND
B	BROWN
C	CRIMSON RED
E	BLACK
G	GRAY
I	IVORY
L	BLUE
O	ORANGE
P	PURPLE
R	DARK RED
V	GREEN
W	WHITE
Y	YELLOW

WIRE AND CABLE

AFMW	BONDED FILL FLOODED TWISTED CABLE
ARMM	RISER ARMORED BONDED MULTIPAIR CABLE
AWG	AMERICAN WIRE GAUGE
CAT3	CATEGORY 3 TWISTED PAIR COPPER CABLE
CAT4	CATEGORY 4 TWISTED PAIR COPPER CABLE
CAT5	CATEGORY 5 TWISTED PAIR COPPER CABLE
CAT5e	CATEGORY 5 ENHANCED TWISTED PAIR COPPER CABLE
CAT6	CATEGORY 6 TWISTED PAIR COPPER CABLE
CM	NEC, COMMUNICATIONS CABLE
CMP	NEC, COMMUNICATIONS PLENUM CABLE
CMR	NEC, COMMUNICATIONS RISER CABLE
COAX	COAXIAL CABLE
FO	FIBER OPTIC
HDPE	HIGH DENSITY POLYETHELYNE
LTFF	LOOSE TUBE FILLED & FLOODED
MDPE	MEDIUM DENSITY POLYETHELYNE
MM	MULTIMODE FIBER OPTIC CABLE
MPP	NEC, MULTIPURPOSE PLENUM CABLE
OFC	NEC, OPTICAL FIBER CONDUCTIVE CABLE
OFCP	NEC, OPTICAL FIBER CONDUCTIVE PLENUM CABLE
OFCR	NEC, OPTICAL FIBER CONDUCTIVE RISER CABLE
OFN	NEC, OPTICAL FIBER NON-CONDUCTIVE CABLE
OFNP	NEC, OPTICAL FIBER NON-CONDUCTIVE PLENUM CABLE
OFNR	NEC, OPTICAL FIBER NON-CONDUCTIVE RISER CABLE
SM	SINGLE MODE FIBER OPTIC CABLE
STP	SHIELDED TWISTED PAIR
TB	TIGHT BUFFERED
UTP	UNSHIELDED TWISTED PAIR
WM	WIRE MANAGER/MANAGEMENT

GENERAL NOTES

9

1 AUDIO CONNECTORS: ALL CONNECTIONS TO SCREW CLAMP OR BINDING POST TERMINALS REQUIRE APPROPRIATELY COLOR CODED FLANGED OR SNAP SPADE TYPE LUGS. BARE WIRE CONNECTED TO A BINDING POST IS NOT ACCEPTABLE. GAS TIGHT INSULATION DISPLACEMENT "PUNCH-DOWN BLOCKS" ARE ACCEPTABLE TERMINAL CONNECTIONS FOR MICROPHONE AND LINE LEVEL INTERCONNECTIONS WITHIN EQUIPMENT ENCLOSURES.

2 LOUDSPEAKER CONNECTORS: ALL CONNECTIONS TO SCREW CLAMP OR BINDING POST TERMINALS REQUIRE APPROPRIATELY COLOR CODED FLANGED OR SNAP SPADE TYPE LUGS. BARE WIRE CONNECTED TO A BINDING POST IS NOT ACCEPTABLE. FOR CONSTANT VOLTAGE SYSTEMS CRIMP CONNECTIONS AT LOUDSPEAKERS ARE ACCEPTABLE, WIRE NUTS ARE NOT.

3 VIDEO CONNECTORS: ALL COAXIAL CABLE CONNECTIONS SHALL BE MADE WITH CRIMP TYPE CONNECTORS FOR BOTH SHIELD AND INNER CONDUCTOR. INSTALL WITH MANUFACTURER'S APPROVED ASSEMBLY METHODS AND TOOLS. CONNECTORS ATTACHED TO COAXIAL CABLE SHALL BE BNC STYLE CONNECTORS. USE BNC TO VHF ADAPTER OR BNC TO RCA ADAPTER AS APPROPRIATE FOR THE EQUIPMENT BEING CONNECTED.

4 RF CONNECTORS: ALL RF CABLE CONNECTIONS SHALL BE MADE WITH CRIMP TYPE CONNECTIONS FOR BOTH THE SHIELD AND INNER CONDUCTOR. INSTALL WITH MANUFACTURER'S APPROVED ASSEMBLY METHODS AND TOOLS. CONNECTORS ATTACHED TO RF CABLE SHALL BE 'F' STYLE CONNECTORS.

5 RJ CONNECTORS: ALL RJ CABLE CONNECTIONS SHALL BE MADE WITH CRIMP TYPE CONNECTIONS. RJ45 CONNECTIONS ARE TO BE MAKE WITH SHIELDED GROUNDING CONNECTORS.

6 SIGNAL GROUNDING: USE THE RACK AS A COMMON POINT OF GROUNDING FOR ALL TECHNICAL SYSTEMS. THE RACK IS TO BE GROUNDED / BONDED TO EARTH. CABLE SHIELDS SHALL ONLY BE USED FOR SHIELDING AND CONNECTED TO GROUND AT THE RACK ONLY. ALL RACK-MOUNTED EQUIPMENT SHALL BE CHECKED FOR GROUND CONTINUITY BETWEEN CHASSIS AND THE RACK.

7 CABLING:
- A ALL CABLING IS TO BE CONTINUOUS AND UN-SPLICED.
- B CABLING, NOT IN CONDUIT IS TO BE SUPPORTED FROM THE BUILDING STRUCTURE BY J-HOOKS. CABLES ARE NOT TO BE SUPPORTED FROM CEILING WIRES OR OTHER CONVEYANCE SYSTEMS.
- C PLENUM RATED CABLES AND CABLE TIES MUST BE USED WHEN CABLES ARE LOCATED IN AN AIR PLENUM.
- D CABLES WITHIN RACKS SHALL BE BUNDLED AND LACED NEATLY TO SUPPORT MEMBERS WITH A SERVICE LOOP LARGE ENOUGH TO MAINTAIN CONVENIENT ACCESS TO ALL EQUIPMENT CONNECTIONS.
- E EQUIPMENT POWER CABLE IS TO BE SEPARATED FROM SIGNAL CABLES WITH IN ANY ENCLOSURE. PROVIDE THE MAXIMUM SEPARATION POSSIBLE WITHIN THE ENCLOSURE.

8 WIRING: ALL WIRING SHALL BE INSTALLED IN ACCORDANCE WITH NETWORK AND BROADCAST STANDARD PRACTICES. CABLE JACKET SHALL BE COLOR CODED TO MAINTAIN A CONSISTENT IDENTIFICATION OF PHASING.

9 MARKINGS: PERMANENTLY MARK ALL CONNECTORS, CABLES, AND CABLE TERMINATIONS TO INDICATE THEIR FUNCTION AS IT CORRESPONDS TO THE WIRING DIAGRAM. ALL CABLE PAIRS SHALL BE CODED WITH PERMANENTLY ATTACHED LABELS ON THE CABLE ENDS WITH CONSISTENT COLOR-CODED MARKINGS TO INDICATE THEIR FUNCTION. SEE CABLE LABEL DETAIL (DETAIL 5/TA-400).

10 AESTHETICS: COORDINATE THE ELEVATION/LOCATION, FINISH AND COLOR OF ALL PLATES, WALL SWITCHES, FLOOR BOXES AND JUNCTION BOXES WITH THE CONSULTANT.

11 VENTILATION: PROVIDE ADEQUATE VENTILATION IN EQUIPMENT RACKS TO CONFORM TO THE EQUIPMENT MANUFACTURER'S TEMPERATURE REQUIREMENTS.

12 FASTENERS, HANGERS, SUPPORTS: PROVIDE FASTENERS, SUPPORTS AND SEISMIC RESTRAINTS TO ADEQUATELY SUPPORT THE LOAD.

13 WORKMANSHIP: INSTALLATION OF ALL WORK INCLUDING CABLING SHALL BE NEAT. ALL BOXES INCLUDING THE LOUDSPEAKER ENCLOSURES, EQUIPMENT RACKS, ETC. SHALL BE PLUMB AND SQUARELY LOCATED. REPLACE/PATCH ALL CEILING, WALLS AND FLOOR REMOVED OR MODIFIED FOR THIS WORK WHEN THE WORK IS COMPLETE. LEAVE THE JOB SITE CLEAN AND FREE FROM MARKS AND BLEMISHES.

14 DIMENSIONED LOCATIONS: AV DEVICE LOCATIONS ILLUSTRATED WITH DIMENSIONS ARE CRITICAL TO DESIRED PERFORMANCE. CONTRACTOR SHALL NOT FIELD ADJUST LOCATIONS WITHOUT COORDINATING WITH THE DESIGN CONSULTANT.

15 ALL ENGRAVED LABELS SHALL BE FILLED WITH WHITE OR BLACK AS REQUIRED FOR THE GREATEST CONTRAST BETWEEN THE ENGRAVING AND FACEPLATE/LABEL BACKGROUND COLOR.

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CHABOT COLLEGE

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	date	issue description
2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

STATE OF CALIFORNIA — C-21 415 — RENEWAL DATE

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project number: 20-296
date: NOVEMBER 15, 2024

DSA BACKCHECK SUBMITTAL #2

SHEET INDEX AND NOTES

TA0.01

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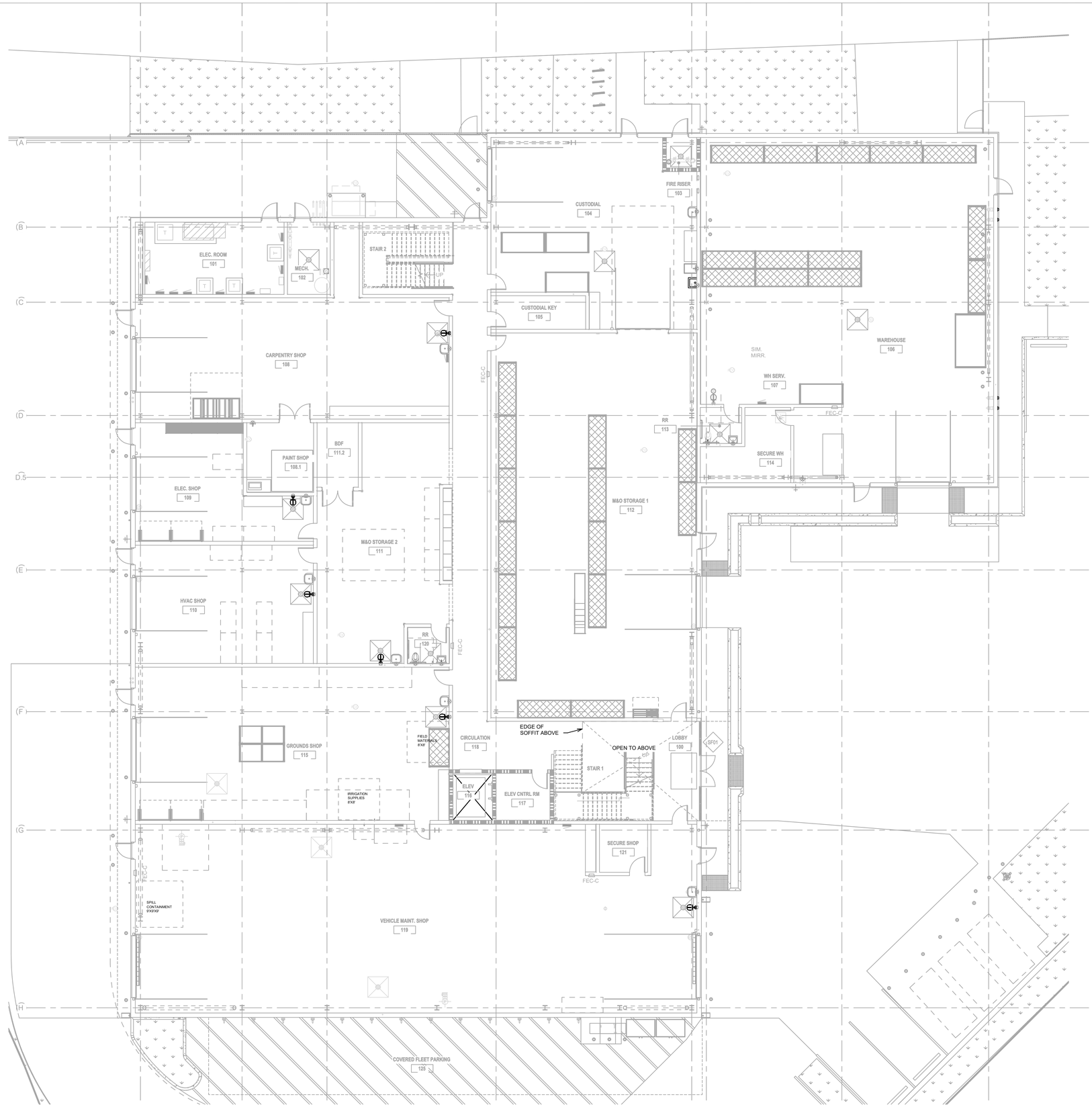

GROUND LEVEL FLOOR PLAN

NOTE: ALL CONDUIT 1-1/4" UON

1

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project number: 20-296
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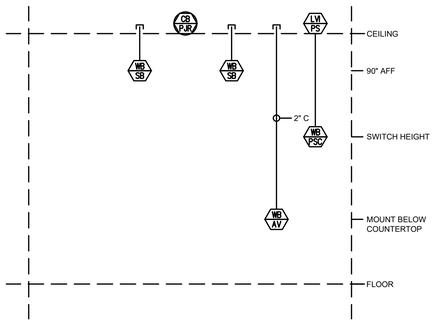
GROUND
LEVEL
FLOOR PLAN

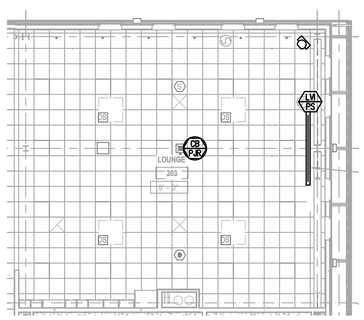
TA1.01



LOUNGE (203) RISER DIAGRAM

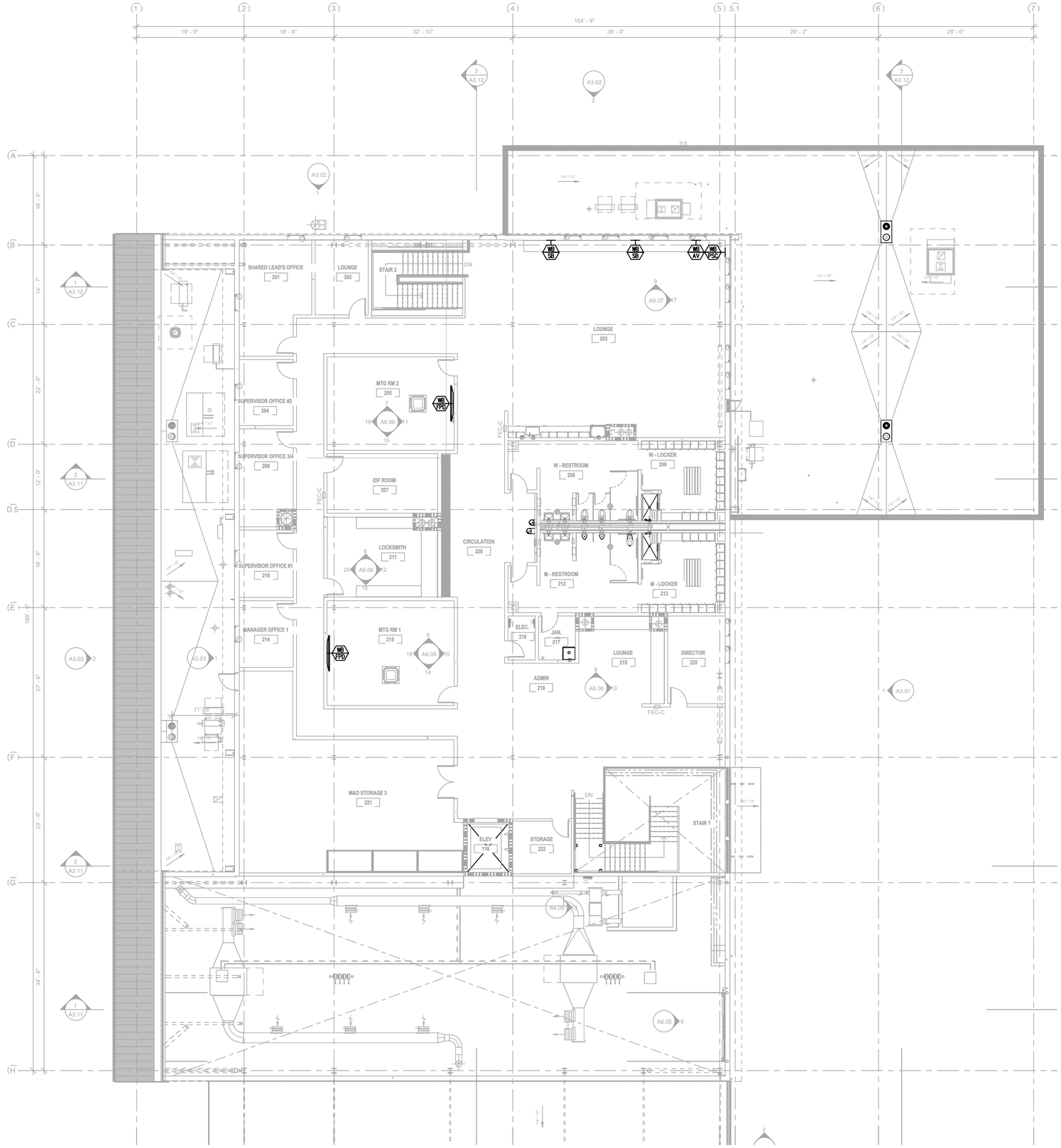
NOTE: ALL CONDUIT 1-1/4" UON

14



LOUNGE (203) REFLECTED CEILING PLAN

13



SECOND LEVEL FLOOR PLAN

1

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SECOND LEVEL FLOOR PLAN

TA1.02

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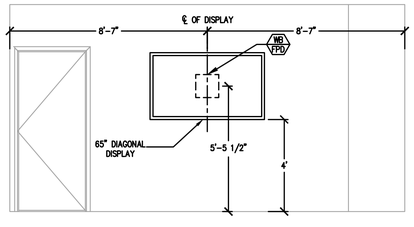
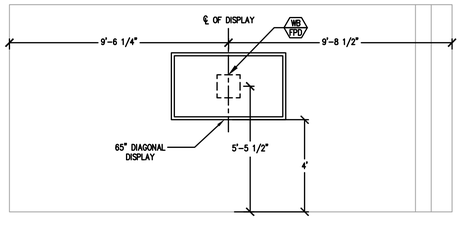
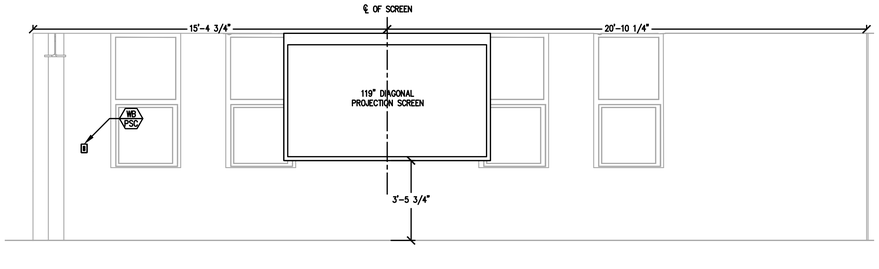


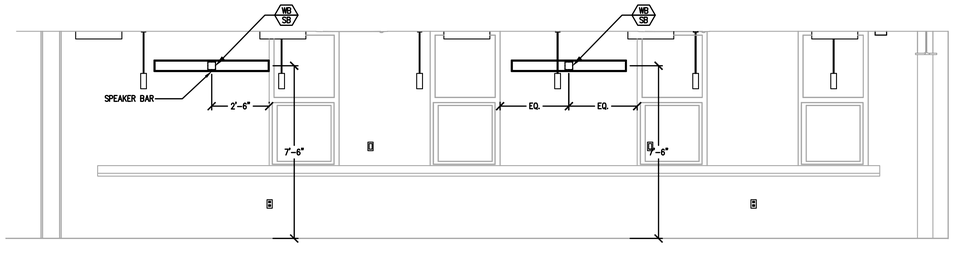
MEETING ROOM 2 (205) ELEVATION
SCALE: 3/8" = 1'-0"
6



MEETING ROOM 1 (215) ELEVATION
SCALE: 3/8" = 1'-0"
2



LOUNGE (203) EAST WALL ELEVATION
SCALE: 3/8" = 1'-0"
9



LOUNGE (203) NORTH WALL ELEVATION
SCALE: 3/8" = 1'-0"
1

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ELEVATIONS

TA3.01

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1 CEILING OR WALL MOUNT EQUIPMENT SHALL BE SECURED TO THE APPROPRIATE STRUCTURE USING THREADED ROD OR OTHER APPROVED METHODS. HARDWARE / STRUCTURE SHALL BE RATED TO SUPPORT 5X COMBINED WEIGHT OF EQUIPMENT AND MOUNTING HARDWARE.

2 FASTENING METHODS MUST BE SUITABLE FOR MOUNTING SURFACE AND SECURELY ANCHORED SO THAT VIBRATION OR ABUSIVE PULLING WILL NOT WEAKEN INSTALLATION.

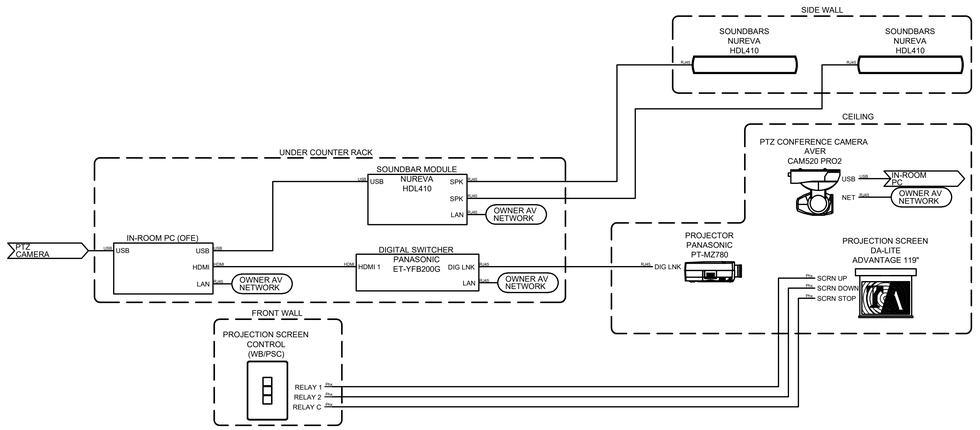
3 EQUIPMENT WHICH MEET THE FOLLOWING PARAMETERS MAY BE ANCHORED WITHOUT SPECIFIC DETAIL DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING APPROPRIATE SUPPORT / FASTENING METHODS FOR THIS EQUIPMENT. THE SUPPORT / FASTENING METHODS FOR THIS EQUIPMENT SHALL MEET THE STANDARDS NOTED ABOVE.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

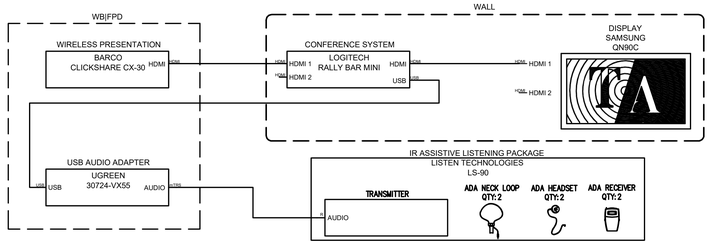
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR HUNG FROM A WALL.

STRUCTURAL MOUNTING SHEET NOTES — 4

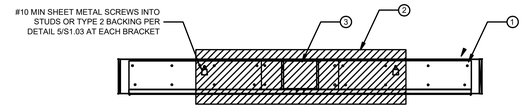
SCALE: NTS



LOUNGE (203) FUNCTIONAL — 6



MEETING ROOM (TYP.) FUNCTIONAL — 5

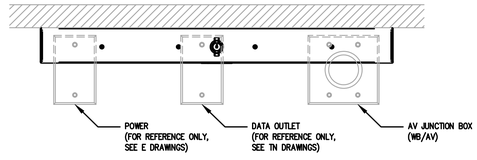


ITEM	DESCRIPTION	MFG/MODEL	BY	QTY.
1	SPEAKER BAR	PER AV SPEC 27 4116	AVC	1
2	BLOCKING TO SUPPORT 100 LBS, SECURED TO WALL STRUCTURE	AS SPECIFIED	GC	1
3	SPEAKER BAR JUNCTION BOX	AS SPECIFIED	EC	1

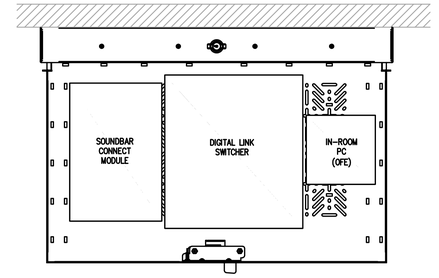
NOTES:
1. SPEAKERBAR SHALL BE SECURED TO WALL WITH APPROPRIATE FASTENERS / ANCHORS, PER MANUFACTURER INSTRUCTIONS AND AHJ REQUIREMENTS. HARDWARE / STRUCTURE SHALL BE RATED TO SUPPORT A SWL FOR 20 LBS EQUIPMENT WEIGHT

SPEAKER BAR MOUNTING DETAIL — 2

SCALE: NTS



CLOSED POSITION



OPENED POSITION

NOTES:
1. CONTRACTOR SHALL FURNISH AND INSTALL POWER STRIP AND OTHER MISCELLANEOUS ITEMS AS REQUIRED FOR A COMPLETE AND OPERATIONAL AV SYSTEM.

UNDER COUNTER RACK DETAIL — 1

SCALE: NTS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-121159 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 2/19/2025

HGA

CHABOT COLLEGE

CLIENT

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DSA BACKCHECK SUBMITTAL #2

2	2024.12.17	DSA PC2
1	2024.06.05	DSA PC1
	2023.10.23	DSA SUBMISSION
	2023.06.16	50% CONSTRUCTION DOCUMENTS
	2023.01.18	100% DESIGN DEVELOPMENT
	2022.02.28	SCHEMATIC DESIGN

⚠	date	issue description

REGISTERED ARCHITECT C-31015 RENEWAL DATE OF CALIFORNIA

CHABOT M+O

25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: NOVEMBER 15, 2024

COORDINATION DETAILS

TA7.01

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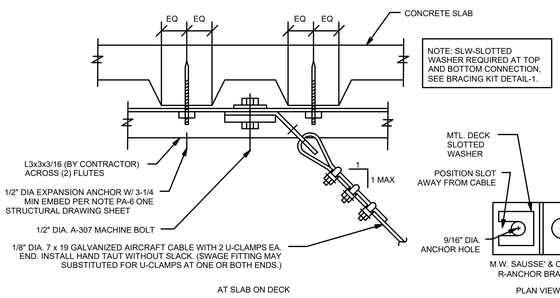
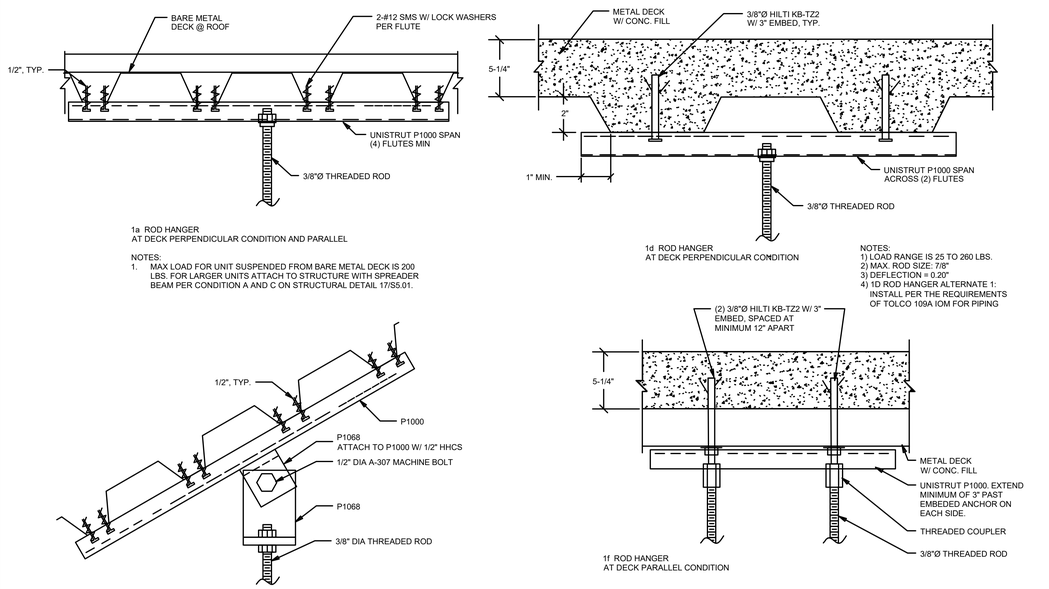


TYPICAL BRACE CABLE ATTACHEMENT TO DECK

SCALE: NTS

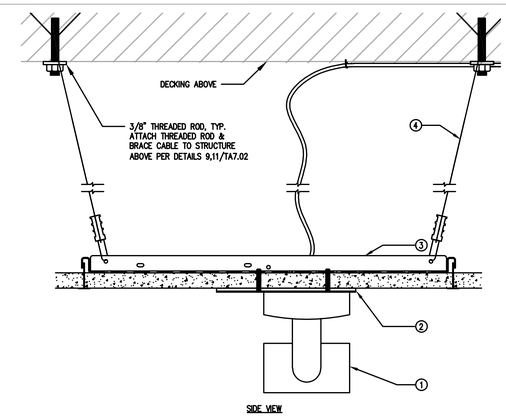
11



TYPICAL THEADED ROD ATTACHEMENT TO DECK

SCALE: NTS

9



ITEM	DESCRIPTION	MFG/MODEL	BY	QTY.
4	SUPPORT CABLE	AS PER 274116 SPEC	AVC	1
3	SUSPENDED CEILING KIT	AS PER 274116 SPEC	AVC	1
2	CAMERA CEILING PLATE	AS PER 274116 SPEC	AVC	1
1	CAMERA	AS PER 274116 SPEC	AVC	1

NOTE:
1. CONTRACTOR SHALL FURNISH AND INSTALL SUPPORT WIRE AS REQUIRED TO SUPPORT CAMERA CEILING KIT AND CAMERA CEILING PLATE.
2. CAMERA SHALL BE SECURED TO BUILDING STRUCTURE WITH APPROPRIATE FASTENERS/ANCHORS, PER MANUFACTURER INSTRUCTIONS AND AHJ REQUIREMENTS. HARDWARE / STRUCTURE SHALL BE RATED TO SUPPORT SWL FOR 20 LBS EQUIPMENT WEIGHT.

CEILING CAMERA MOUNTING

SCALE: NTS

8

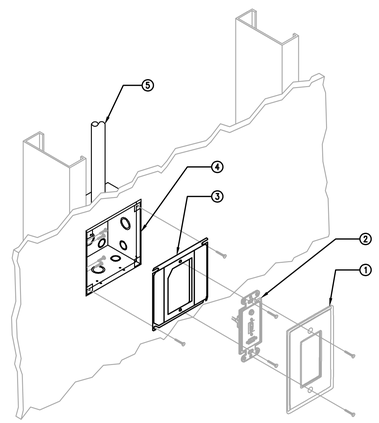
ITEM	DESCRIPTION	MFG/MODEL	BY	QTY.
1	3/8" ALL THREAD ROD ATTACHED TO STRUCTURE ABOVE	AS SPECIFIED	GC	1
2	CEILING FLANGE	PER AV SPEC 27 4116	AVC	1
3	PROJECTION SCREEN HOUSING FASTENED SECURELY TO GRID	PER AV SPEC 27 4116	AVC	1

NOTES:
1. HARDWARE/STRUCTURAL SHALL BE RATED TO SUPPORT A SWL FOR 100 LBS EQUIPMENT WEIGHT.

PROJECTION SCREEN MOUNTING

SCALE: NTS

7



5	CONDUIT	AS SPECIFIED	EC	1
4	WALL BOX	AS SPECIFIED	EC	1
3	MUD RING	AS SPECIFIED	EC	1
2	AV INTERFACE PLATE	PER SPEC SECTION 27 4116	AVC	1
1	DECORA WALL PLATE	INCLUDED	AVC	1
ITEM	DESCRIPTION	MFG/MODEL	BY	QTY.

NOTES:
1. ACTUAL AV INTERFACE PLATE MAY NOT BE SHOWN. SEE INTERFACE PLATE DETAIL FOR REQUIRED CONNECTIONS.

INPUT PLATE MOUNTING

SCALE: NTS

5

1 CEILING OR WALL MOUNT EQUIPMENT SHALL BE SECURED TO THE APPROPRIATE STRUCTURE USING THREADED ROD OR OTHER APPROVED METHODS. HARDWARE / STRUCTURE SHALL BE RATED TO SUPPORT 5X COMBINED WEIGHT OF EQUIPMENT AND MOUNTING HARDWARE.

2 FASTENING METHODS MUST BE SUITABLE FOR MOUNTING SURFACE AND SECURELY ANCHORED SO THAT VIBRATION OR ABUSIVE PULLING WILL NOT WEAKEN INSTALLATION.

3 EQUIPMENT WHICH MEET THE FOLLOWING PARAMETERS MAY BE ANCHORED WITHOUT SPECIFIC DETAIL DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING APPROPRIATE SUPPORT / FASTENING METHODS FOR THIS EQUIPMENT. THE SUPPORT / FASTENING METHODS FOR THIS EQUIPMENT SHALL MEET THE STANDARDS NOTED ABOVE.

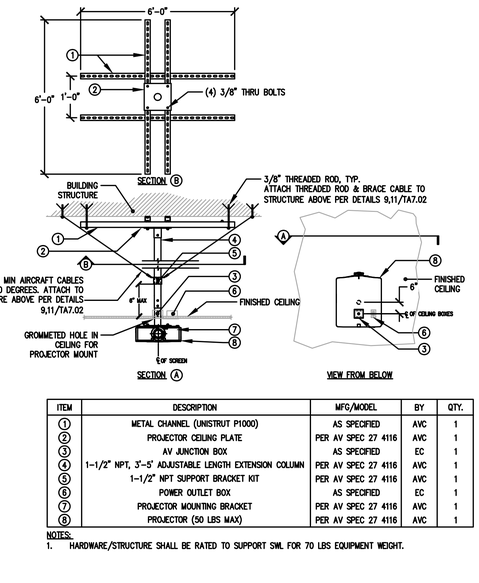
A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR HUNG FROM A WALL.

STRUCTURAL MOUNTING SHEET NOTES

SCALE: NTS

4



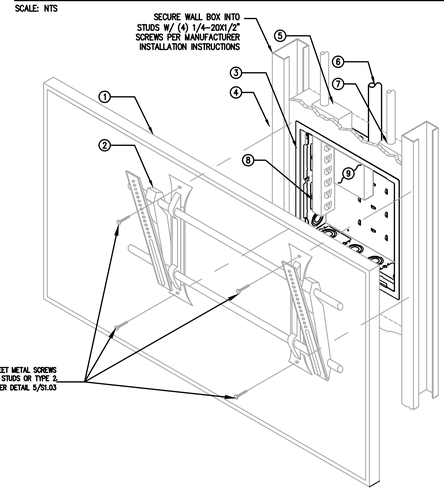
ITEM	DESCRIPTION	MFG/MODEL	BY	QTY.
1	METAL CHANNEL (UNISTRUT P1000)	AS SPECIFIED	AVC	1
2	PROJECTOR CEILING PLATE	PER AV SPEC 27 4116	AVC	1
3	AV JUNCTION BOX	AS SPECIFIED	EC	1
4	1-1/2" NPT, 3'-5" ADJUSTABLE LENGTH EXTENSION COLUMN	PER AV SPEC 27 4116	AVC	1
5	1-1/2" NPT SUPPORT BRACKET KIT	PER AV SPEC 27 4116	AVC	1
6	POWER OUTLET BOX	AS SPECIFIED	EC	1
7	PROJECTOR MOUNTING BRACKET	PER AV SPEC 27 4116	AVC	1
8	PROJECTOR (50 LBS MAX)	PER AV SPEC 27 4116	AVC	1

NOTES:
1. HARDWARE/STRUCTURE SHALL BE RATED TO SUPPORT SWL FOR 70 LBS EQUIPMENT WEIGHT.

VIDEO PROJECTOR MOUNTING

SCALE: NTS

3



9	WIRELESS PRESENTER – WHERE APPLICABLE	PER SPEC SECTION 27 4116	AVC	1
8	POWER STRIP	PER SPEC SECTION 27 4116	AVC	1
7	DATA	PER SPEC SECTION 27 1000	DC	1
6	AV CONDUIT TO ACCESSIBLE CEILING	AS SPECIFIED	EC	1
5	POWER	AS SPECIFIED	EC	1
4	2'-0"H x 3'-0"W BLOCKING SECURED TO WALL STRUCTURE TO SUPPORT 400 LBS.	AS SPECIFIED	GC	1
3	DISPLAY WALL BOX W/ FLANGE	AS SPECIFIED	EC	1
2	DISPLAY WALL MOUNT	PER SPEC SECTION 27 4116	AVC	1
1	FLAT PANEL DISPLAY	PER SPEC SECTION 27 4116	AVC	1
ITEM	DESCRIPTION	MFG/MODEL	BY	QTY.

NOTES:
1. MOUNT DISPLAY WALL BOX FLANGE FLUSH WITH WALL.
2. DISPLAY WALL MOUNT SHOWN MAY NOT REFLECT ACTUAL WALL MOUNT MODEL.
3. SEE RISER DIAGRAMS / FLOOR PLANS FOR CONDUIT SIZE.
4. CONTRACTOR SHALL FURNISH AND INSTALL VIDEOBAR W/ TV MOUNT. VIDEO BAR SHALL BE MOUNTED BELOW DISPLAY, ATTACHED TO DISPLAY WALL MOUNT.

FLAT PANEL DISPLAY MOUNTING

SCALE: NTS

1

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	date	issue description
2		

STATE OF CALIFORNIA
M. Pink
Expires 08-31-25
RENEWAL DATE
ARCHITECT

CHABOT M+O

25555 HESPERIAN BLVD, HAYWARD, CA 94545

project number: 20-296
date: NOVEMBER 15, 2024

COORDINATION DETAILS

TA7.02