

K:\drawings\Chabot-Las Positas Community College\2204789 Chabot CC Electrical Re-Feed Bldg 1800 RFP\2204789G-0.0.dwg 5/26/2023 12:54 PM Rick Padua

CHABOT COLLEGE CHABOT-LAS POSITAS COMMUNITY COLLEGE DISTRICT

25555 HESPERIAN BOULEVARD BUILDING 1800 HAYWARD, CALIFORNIA 94545

BUILDING 1800 ELECTRICAL RE-FEED

DSA #01-120880

	120000	
OOL EQUIPMENT ANCHORAGE	DSA ADMINISTRATIVE REQUIREMENTS	DRAWING INDEX (12 SHEETS)
ENT ANCHORAGE NOTE: LUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED N-THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING . BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT SCRIBED IN THE 2022 CBC SECTION 1617A.1.18 THROUGH 1617A.1.26 AND .RS 13, 26, AND 30: NT EQUIPMENT AND COMPONENTS. R MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. ' ATTACHED' SHALL INCLUDE ALL ELECTRICAL CONNECTION EXCEPT PLUGS FOR R CECEPTACLES HAVING A FLEXIBLE CABLE. MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF IRECTLY SUPPORT THE COMPONENTS SHALL BE POSITIVELY ATTACHED TO T NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED PONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE SSOCIATED DUCTWORK, PIPING, AND CONDUIT, FLEXIBLE CONNECTIONS MUST N BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS: WEIGHING LESS THAN 400 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR NAME. * ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE PORVAL OF THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT NT. WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR VALL. * ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE PPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR RETY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ABOVE REQUIREMENTS. INC. INC. INC. INC. INC. INC. INC. INC. INC. INC. INC. INC. INC. INC. INC. INC. INC. INC. INC. INC. INC. INC. INC. INC. INC. INC. INC. INC. INC. INC. INC. INC. INC. INC. INC. INC. INC. INC. INC. INC. INC. INC. INC. INC. INC. INC. INC. INC. INC. INC. INC.	 A COPY OF PARTS 1 THRU 6, TITLE 24, C.C.R. SHALL BE KEPT ON THE JOB SITE AT ALL TIMES. ALL CONSTRUCTION CHANGE DOCUMENTS AND ADDENDA TO BE SIGNED BY THE ARCHITECT AND THE OWNER AND APPROVED BY DSA. CONSTRUCTION CHANGE DOCUMENTS ARE NOT VALID UNTIL APPROVED BY DSA PER SECTION 4–338, PART 1, TITLE 24. ALL TESTS TO CONFORM TO THE REQUIREMENTS OF SECTION 4–335, PART 1, TITLE 24, AND APPROVED T & 1 SHEET. TESTS OF MATERIAL SAND TESTING LABORATORY SHALL BE IN ACCORDANCE WITH SECTION 4–335 OF PART 1, TITLE 24, AND THE DISTIRCT SHALL EMPLOY AND PAY THE LABORATORY. COSTS OF RE-TEST MAY BE BACK CHARGED TO THE CONTRACTOR. DSA SHALL BE NOTIFIED AT THE START OF CONSTRUCTION AND PRIOR TO THE PLACEMENT OF CONCRETE PER SECTION 4–331, PART 1, TITLE 24. INSPECTOR SHALL BE APPROVED BY DSA. INSPECTION SHALL BE IN ACCORDANCE WITH SECTION 4–333(B). THE DUTY OF THE INSPECTOR SHALL BE IN ACCORDANCE WITH SECTION 4–342, PART 1, TITLE 24. DSA PROJECT INSPECTOR SHALL BE IN ACCORDANCE WITH SECTION 4–342, PART 1, TITLE 24. CONTRACTOR, INSPECTOR, ARCHITECT AND ENGINEERS SHALL SUBMIT VERIFIED REPORTS (FORM SSS-6) IN ACCORDANCE WITH SECTION 4–336 AND 4–343, PART 1, TITLE 24. THE CONTRACTOR SHALL PERFORM HIS DUTIES IN ACCORDANCE WITH SECTION 4–343, PART 1, TITLE 24. ALL WORK SHALL CONFORM TO 2019 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR). CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGED DOCUMENT (CCD) APPROVED BY THE DISTICT (OWNER) AND APPROVED BY MED DAS MALL PROVIDE ORINNOUS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGED DOCUMENT (CCD) APPROVED BY THE DUSTRICT (OWNER) AND APPROVED BY MENTINE DAS ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DUSTRICT (OWNER) AND APPROVED BY MED DAS ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DUSTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTION SFIN THE WORK OF T	SHEET DESCRIPTION G-0.0 COVER SHEET G-0.1 CODE SHEET - FOR REFERENCE ONLY E-0.0 ELECTRICAL GENERAL NOTES, SYMBOLS & ABBREVIATIONS E-1.0 ELECTRICAL SITE PLAN ED-1.1 ELECTRICAL PARTIAL SITE PLAN - DEMO E-1.1 ELECTRICAL PARTIAL SITE PLAN - NEW E-4.1 ELECTRICAL PARTIAL FLOOR PLAN E-5.1 ELECTRICAL DETAILS E-5.2 ELECTRICAL DETAILS E-5.3 ELECTRICAL DETAILS E-6.1 ELECTRICAL SCHEDULES E-7.1 ELECTRICAL SINGLE LINE DIAGRAM
OWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED	SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4–317(c), PART 1, TITLE 24, CCR).	SUMMARY OF WORK
M ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A ALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE STALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE TER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SER AND BRACE LOADS. (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL MS (E): P E OPTION 1: DETAIL ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.	 15. 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. 16. LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT). 17. MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021. 18. A LISTING OF CERTIFIED ATT CAN BE FOUND AT HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS_AND_TOPICS/PROGRAMS/ACCEPTANCE_TEST= 	 THE SCOPE OF THIS ELECTRICAL PROJECT IS TO RE-FEED BUILDING 1800 D SUBSTATION 'C' 1. FEED ELECTRICAL POWER FROM SUBSTATION 'C' TO BUILDING 1800. 2. DISCONNECT AND REMOVE ELECTRICAL POWER FROM BUILDING 2100 TO 3. REPLACE ANY LANDSCAPING, IRRIGATION AND PAVING DUE TO ELECTRICAL EXCAVATION TO MATCH EXISTING CONDITIONS.
	TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE. 19. THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE	APPLICABLE CODES
DEFERRED APPROVAL	 CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA. 20. PROJECT INSPECTOR WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED. 21. ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT. 22. FIRE SAFETY DURING CONSTRUCTION & DEMOLITION WILL BE ENFORCED IN ACCORDANCE WITH CBC & CFC CHAPTER 33. 	UNLESS OTHERWISE INDICATED OR SPECIFIED, PERFORM THE WORK IN CON THE LATEST EDITIONS OF ALL APPLICABLE REGULATORY REQUIREMENTS, INC LIMITED TO, THE FOLLOWING: 1. CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 2. CALIFORNIA BUILDING CODE (PART 2, TITLE 24): 2021 IBC WITH 2022
ENT OF GENERAL CONFORMANCE	BUILDING DATA	 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24): 2020 NEC WITH 20 CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24): 2021 UMC WITH 2
ND/OR SPECIFICATIONS AND/OR CALCULATIONS FOR THE ITEMS LISTED BELOW ED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED D TO PREPARE SUCH DRAWINGS IN THIS STATE. THESE DOCUMENTS HAVE BEEN OR DESIGN INTENT AND HAVE BEEN FOUND TO MEET THE APPROPRIATE ITTLE-24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS DRAWINGS HAVE BEEN COORDINATED WITH MY PLANS AND SPECIFICATIONS AND DRAWINGS HAVE BEEN COORDINATED WITH MY PLANS AND SPECIFICATIONS AND DRAWINGS HAVE BEEN COORDINATED WITH MY PLANS AND SPECIFICATIONS AND DRAWINGS HAVE BEEN COORDINATED WITH MY PLANS AND SPECIFICATIONS AND DRAWINGS HAVE BEEN COORDINATED WITH MY PLANS AND SPECIFICATIONS AND DRAWINGS HAVE BEEN COORDINATED WITH MY PLANS AND SPECIFICATIONS AND DRAWINGS HAVE BEEN COORDINATED WITH MY PLANS AND SPECIFICATIONS AND DRAWINGS HAVE BEEN COORDINATED WITH MY PLANS AND SPECIFICATIONS AND DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE (OR FOR WHICH I HAVE ESPONSIBILITY FOR THIS PORTION OF THE WORK) Chitect/Engineer Date Date Date OR 11-30-2023 Expiration Date	LOCATION: 25555 HESPERIAN BOULEVARD BUILDING 1800 APPLICANT: CHABOT COLLEGE CHABOT-LAS POSITAS COMMUNITY COLLEGE DISTRICT NUMBER OF STORIES: 1 CONSTRUCTION TYPE: V-A OCCUPANCY GROUPS: B2 FULLY SPRINKLERED ROOF CLASSIFICATION: WOOD ROOF 1HR RATING, CLASS A ROOFING USE: CLASSROOM AND ACCESSORY SPACES AREA: 18,187 SF TOTAL AREA: 18,187 S.F.	 AMENDMENTS 5. CALIFORNIA PLUMBING CODE (PART 5, TITLE 24) 2021 UPC WITH 202 6. CALIFORNIA ENERGY CODE (PART 6, TITLE 24): 2022 7. CALIFORNIA HISTORICAL BUILDING CODE, (PART 8, TITLE 24): 2022 8. CALIFORNIA FIRE CODE (PART 9, TITLE 24): 2021 IFC WITH 2022 CA 9. CALIFORNIA EXISTING BUILDING CODE (PART 10, TITLE 24): 2022 (202 EXISTING BUILDING CODE WITH 2022 CA AMENDMENTS) 10. CALIFORNIA GREEN BUILDING STANDARDS CODE OR CAL GREEN (PART 11. CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24): 2022 12. PUBLIC SAFETY (CCR TITLE 19), STATE FIRE MARSHAL: CURRENT REVIS 13. NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE, 2022 EDITION

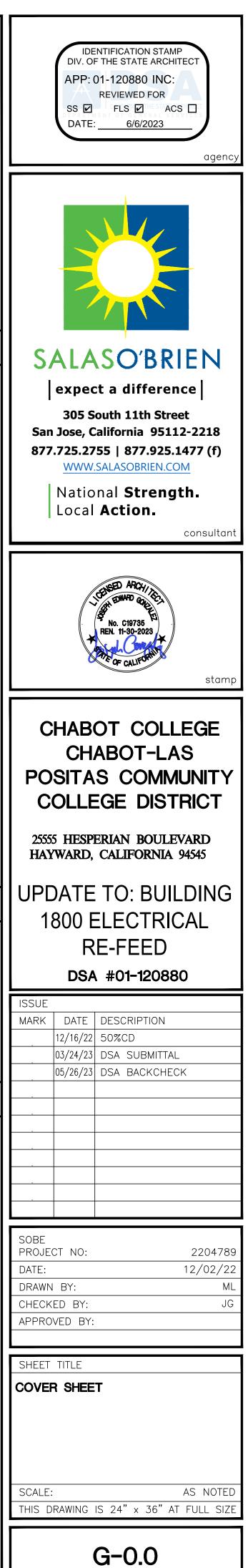
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DIRECTLY FROM

TO BUILDING 1800.

RICAL TRENCHING AND

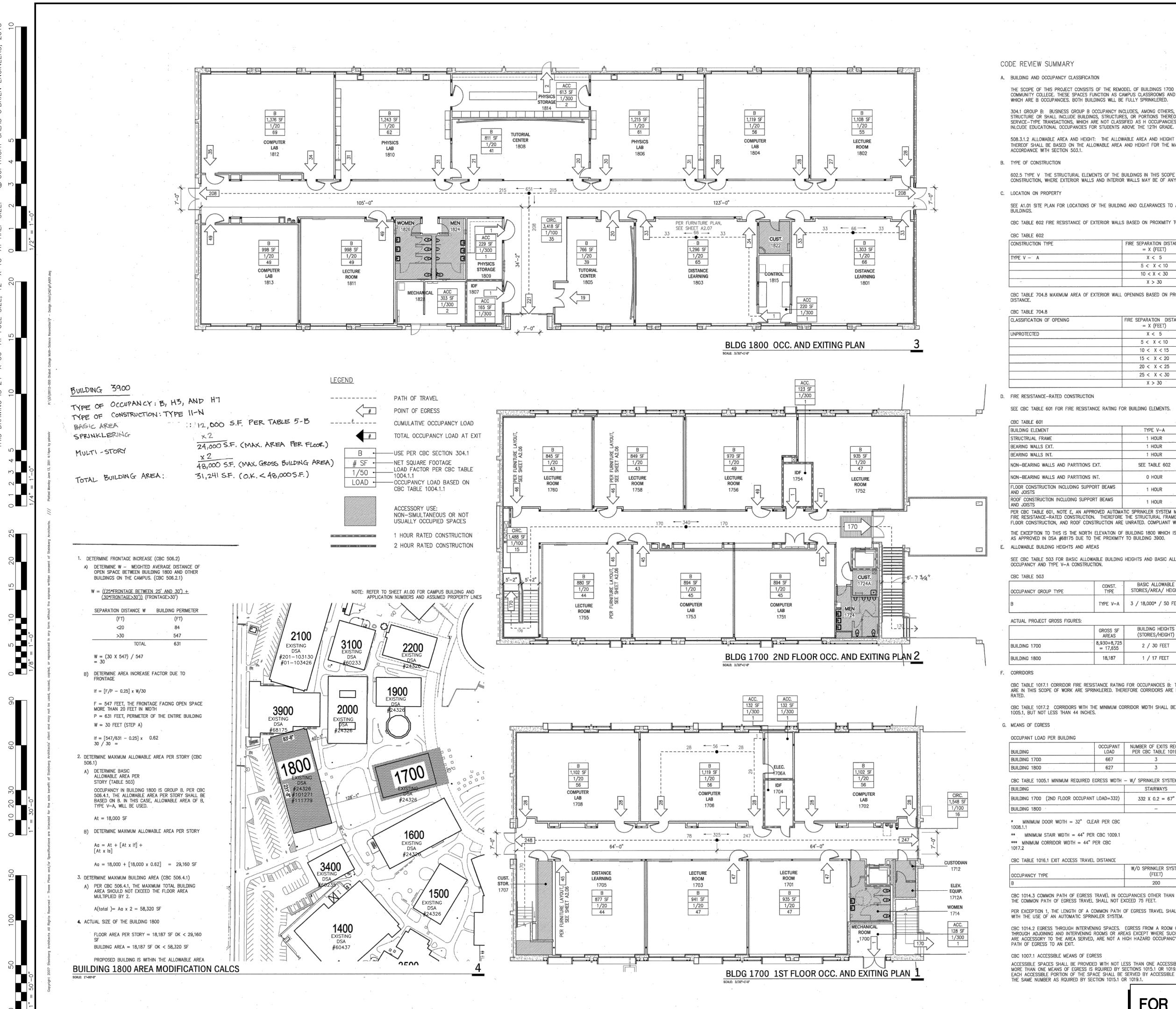
	APPLICABLE CODES				
THE	LESS OTHERWISE INDICATED OR SPECIFIED, PERFORM THE WORK IN CONFORMANCE WITH E LATEST EDITIONS OF ALL APPLICABLE REGULATORY REQUIREMENTS, INCLUDING, BUT NOT ITED TO, THE FOLLOWING:				
1.	CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24): 2022				
2.	CALIFORNIA BUILDING CODE (PART 2, TITLE 24): 2021 IBC WITH 2022 CA AMENDMENTS				
3.	CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24): 2020 NEC WITH 2022 CA AMENDMENT:				
4.	CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24): 2021 UMC WITH 2022 CA AMENDMENTS				
5.	CALIFORNIA PLUMBING CODE (PART 5, TITLE 24) 2021 UPC WITH 2022 CA AMENDMENTS				
6.	CALIFORNIA ENERGY CODE (PART 6, TITLE 24): 2022				
7.	CALIFORNIA HISTORICAL BUILDING CODE, (PART 8, TITLE 24): 2022				
8.	CALIFORNIA FIRE CODE (PART 9, TITLE 24): 2021 IFC WITH 2022 CA AMENDMENTS				
9.	CALIFORNIA EXISTING BUILDING CODE (PART 10, TITLE 24): 2022 (2021 INTERNATIONAL EXISTING BUILDING CODE WITH 2022 CA AMENDMENTS)				
10.	CALIFORNIA GREEN BUILDING STANDARDS CODE OR CAL GREEN (PART 11, TITLE 24): 202				
11.	CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24): 2022				
12.	PUBLIC SAFETY (CCR TITLE 19), STATE FIRE MARSHAL: CURRENT REVISION				
13.	NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE, 2022 EDITION				



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HON .	
S OF THE REMODEL OF BUILDINGS 1700 AND 1800 AT CHABOT UNCTION AS CAMPUS CLASSROOMS AND ACCESSORY SPACES, ALL OF LDINGS WILL BE FULLY SPRINKLERED.	
OCCUPANCY INCLUDES, AMONG OTHERS, THE USE OF A BUILDING OR IGS, STRUCTURES, OR PORTIONS THEREOF, FOR OFFICE, PROFESSIONAL ARE NOT CLASSIFIED AS H OCCUPANCIES. B OCCUPANCIES SHALL	OF

508.3.1.2 ALLOWABLE AREA AND HEIGHT: THE ALLOWABLE AREA AND HEIGHT OF THE BUILDING PORTION THEREOF SHALL BE BASED ON THE ALLOWABLE AREA AND HEIGHT FOR THE MAIN OCCUPANCY (B) IN

602.5 TYPE V THE STRUCTURAL ELEMENTS OF THE BUILDINGS IN THIS SCOPE OF WORK ARE OF TYPE V CONSTRUCTION, WHERE EXTERIOR WALLS AND INTERIOR WALLS MAY BE OF ANY MATERIALS PERMITTED BY CODE.

SEE A1.01 SITE PLAN FOR LOCATIONS OF THE BUILDING AND CLEARANCES TO ALL PROPERTY LINES AND OTHER CBC TABLE 602 FIRE RESISTANCE OF EXTERIOR WALLS BASED ON PROXIMITY TO PROPERTY LINES.

	FIRE SEPARATION DISTANCE = X (FEET)	OCCUPANCY GROUP B
, ., , ,	X < 5	1 HR
	5 < X < 10	1 HR
	10 < X < 30	1 HR
	X > 30	0 HR

CBC TABLE 704.8 MAXIMUM AREA OF EXTERIOR WALL OPENINGS BASED ON PROXIMITY TO FIRE SEPARATION

	FIRE SEPARATION DISTANCE = X (FEET)	% OF WALL OPENING PER STORY
	X < 5	NOT PERMITTED
	5 < X < 10	10%
	10 < X < 15	15%
	15 < X < 20	25%
	20 < X < 25	45%
•	25 < X < 30	70%
	X > 30	NO LIMIT

SEE CBC TABLE 601 FOR FIRE RESISTANCE RATING FOR BUILDING ELEMENTS.

	TYPE V-A
	1 HOUR
-	1 HOUR
	1 HOUR
S EXT.	SEE TABLE 602
s int.	0 HOUR
PORT BEAMS	1 HOUR
ORT BEAMS	1 HOUR

PER CBC TABLE 601, NOTE E, AN APPROVED AUTOMATIC SPRINKLER SYSTEM MAY BE SUBSTITUTED FOR 1-HOUR FIRE RESISTANCE-RATED CONSTRUCTION. THEREFORE THE STRUCTURAL FRAME, INTERIOR BEARING WALLS, FLOOR CONSTRUCTION, AND ROOF CONSTRUCTION ARE UNRATED. COMPLIANT WITH IR 9-1 (2.2), SEE FP0.1 THE EXCEPTION TO THIS IS THE NORTH ELEVATION OF BUILDING 1800 WHICH IS OF TWO HOUR CONSTRUCTION AS APPROVED IN DSA #68175 DUE TO THE PROXIMITY TO BUILDING 3900.

SEE CBC TABLE 503 FOR BASIC ALLOWABLE BUILDING HEIGHTS AND BASIC ALLOWABLE FLOOR AREA FOR B OCCUPANCY AND TYPE V-A CONSTRUCTION.

	· · ·	
CONST. TYPE	BASIC ALLOWABLE STORIES/AREA/ HEIGHT	
TYPE V-A	3 / 18,000* / 50 FEET	*REFER TO AREA INCREASE ALLOWANCE FOR BUILDING 1800
		-

	1. P.	-
GROSS SF AREAS	BUILDING HEIGHTS (STORIES/HEIGHT)	CONCLUSION
8,930+8,725 = 17,655	2 / 30 FEET	ACTUAL PROJECT <allowable< td=""></allowable<>

ACTUAL PROJECT<ALLOWABLE

CBC TABLE 1017.1 CORRIDOR FIRE RESISTANCE RATING FOR OCCUPANCIES B: THE BUILDINGS AT CHABOT THAT ARE IN THIS SCOPE OF WORK ARE SPRINKLERED. THEREFORE CORRIDORS ARE NOT REQUIRED TO BE 1-HR

1 / 17 FEET

18,187

CBC TABLE 1017.2 CORRIDORS WITH THE MINIMUM CORRIDOR WIDTH SHALL BE AS DETERMINED IN SECTION 1005.1, BUT NOT LESS THAN 44 INCHES.

		r.	
	OCCUPANT LOAD	NUMBER OF EXITS REQ'D PER CBC TABLE 1019.1	NUMBER OF EXITS PROVIDED
	667	3	3
	627	3.	3
E	GRESS WDTH	- W/ SPRINKLER SYSTEM	
		STAIRWAYS	DOORS
NT	LOAD=332)	$332 \times 0.2 = 67$ "	658 X 0.15 = 99"
			624 X 0.15 = 94"
LE	AR PER CBC	¢	
_	CBC 1009.1		

W/O SPRINKLER SYSTEM

(FEET) 200 CBC 1014.3 COMMON PATH OF EGRESS TRAVEL IN OCCUPANCIES OTHER THAN GROUPS H-1, H-2, AND H-3, THE COMMON PATH OF EGRESS TRAVEL SHALL NOT EXCEED 75 FEET.

PER EXCEPTION 1, THE LENGTH OF A COMMON PATH OF EGRESS TRAVEL SHALL NOT BE MORE THAN 100 FEET WITH THE USE OF AN AUTOMATIC SPRINKLER SYSTEM.

CBC 1014.2 EGRESS THROUGH INTERVENING SPACES. EGRESS FROM A ROOM OR SPACE SHALL NOT PASS THROUGH ADJOINING AND INTERVENING ROOMS OR AREAS EXCEPT WHERE SUCH ADJOINING ROOMS, OR AREAS ARE ACCESSORY TO THE AREA SERVED, ARE NOT A HIGH HAZARD OCCUPANCY AND PROVIDE A DISCERNABLE PATH OF EGRESS TO AN EXIT.

ACCESSIBLE SPACES SHALL BE PROVIDED WITH NOT LESS THAN ONE ACCESSIBLE MEANS OF EGRESS. WHERE MORE THAN ONE MEANS OF EGRESS IS RQUIRED BY SECTIONS 1015.1 OR 1019.1 FROM ANY ACCESSIBLE SPACE, EACH ACCESSIBLE PORTION OF THE SPACE SHALL BE SERVED BY ACCESSIBLE MEANS OF EGRESS IN AT LEAST

Steinberg Architects

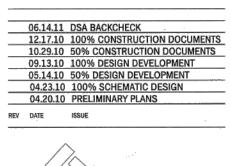
CHABOT COLLEGE CHABOT-LAS POSITAS COMMUNITY COLLEGE DISTRICT

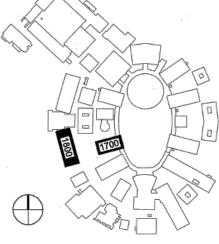
ARCHITECT Steinberg Architects 60 Pierce Avenue San Jose, California

CONSULTANT DISCIPLINE









CHABOT-LAS POSITAS CCD CHABOT COLLEGE MATH/SCIENCE MODERNIZATION PROJECT (40.62.116)

Hayward, California

CODE SHEET PROJECT #: 09112 DATE: APRIL 26, 2010 SCALE: 1/16"=1'-0" A0.01 FOR REFERENCE ONLY

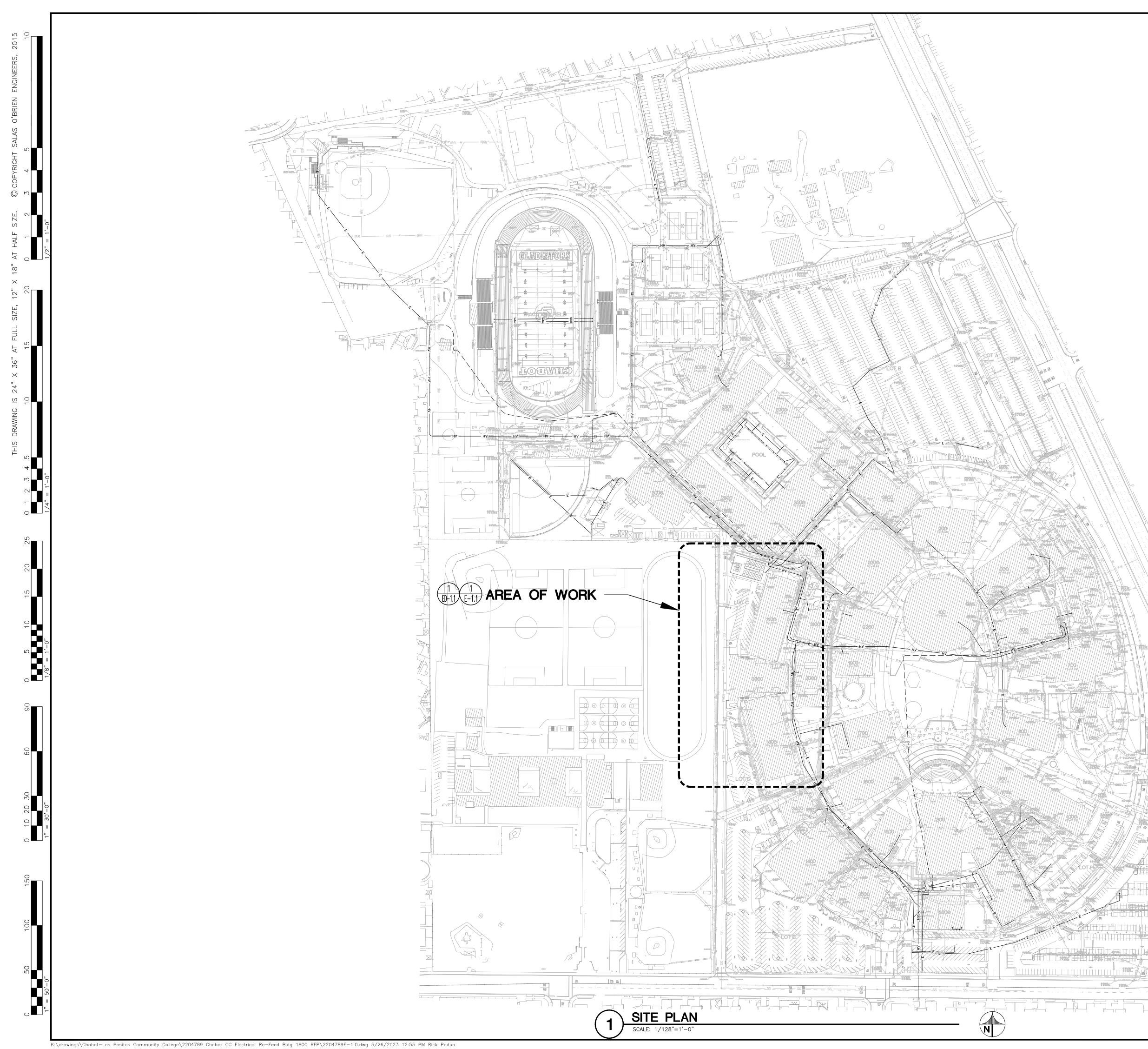
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IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 01-120880 INC: REVIEWED FOR SS ☑ FLS ☑ ACS □ DATE: <u>6/6/2023</u> agency			
SALASO'BRIEN			
expect a difference 305 South 11th Street San Jose, California 95112-2218 877.725.2755 877.925.1477 (f) WWW.SALASOBRIEN.COM National Strength. Local Action. consultant			
No. C19735 REN. 11-30-2023 FILE OF CALIFORNIA			
CHABOT COLLEGE CHABOT-LAS POSITAS COMMUNITY COLLEGE DISTRICT			
25555 HESPERIAN BOULEVARD HAYWARD, CALIFORNIA 94545 UPDATE TO: BUILDING 1800 ELECTRICAL RE-FEED DSA #01-120880			
ISSUE MARK DATE DESCRIPTION 12/16/22 50%CD 03/24/23 DSA SUBMITTAL 05/26/23 DSA BACKCHECK Image: Colspan="2">Image: Colspan="2" Image: Colspan="2">Image: Colspan="2" Colspan="2">Image: Colspan="2" Colspan="2">Image: Colspan="2" Colspa="2" Colspa="2" Colspan="2" Colspan="2" Colspan="2" Col			
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PROJECT NO. 2204789 DATE: 12/02/22 DRAWN BY: ML CHECKED BY: JG APPROVED BY: SHEET TITLE			
CODE SHEET SCALE: AS NOTED			
THIS DRAWING IS 24" x 36" AT FULL SIZE G-0.1			

	G	GENERAL NOTES	DEMOLITION NOTES		ABBREVIATIONS	
ADDENDA, DRAWINGS, AND SPECIFIC, SHALL EXAMINE ARCHITECTURAL, ST	BTAIN A COMPLETE SET OF CONTRACT DOCUMENTS, ATIONS. PRIOR TO SUBMITTING PROPOSAL, CONTRACTOR RUCTURAL AND MECHANICAL CONSTRUCTION DRAWINGS AND	24. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER, #12 AWG MINIMUM, RATED FOR 600V, THHN/THWN, 75 DEGREE CELSIUS. CONDUCTORS #12 AWG AND SMALLER SHALL BE SOLID. CONDUCTOR #10 AWG AND LARGER SHALL BE STRANDED. SYSTEM VOLTAGE SHALL BE	1. REMOVE EXISTING EQUIPMENT IN CONFLICT WITH NEW CONDITIONS. REMOVE ALL WIRE NOT IN SERVICE AND FROM ABANDONED RACEWAYS. PROTECT EXISTING CIRCUITING PASSING THROUGH DEMOLITION AREAS. EXTEND AND/OR RELOCATE AS NECESSARY.	& @ AFF A OR AMP	AND AT ABOVE FINISHED FLOOR AMPERES	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 01-120880 INC: REVIEWED FOR
FAMILIAR WITH THE EXISTING CONDIT WHICH WILL IN ANY WAY AFFECT TH ALLOWANCE WILL BE MADE IN THIS	SITED THE CONSTRUCTION SITE. HE/SHE SHALL BE TONS UNDER WHICH HE/SHE WILL HAVE TO OPERATE AND THE WORK UNDER THIS CONTRACT. NO SUBSEQUENT CONNECTION IN BEHALF OF THE CONTRACTOR FOR ANY	IDENTIFIED AS TO VOLTAGE AND PHASE CONNECTIONS BY MEANS OF COLOR IMPREGNATED INSULATION OR APPROVED COLORED MARKING TAPE. 25. WHERE MULTI-HOMERUNS ARE INDICATED ON DRAWINGS INDICATING THE SAME CIRCUIT NUMBER, PROVIDE A JUNCTION BOX ABOVE THE ACCESSIBLE CEILING AND ROUTE ONE SET	2. ALL ABANDONED EQUIPMENT INCLUDING LIGHT, RECEPTACLES, DATA, FIRE ALARM, ETC., SHALL BE COVERED WITH BLANK METAL PLATES AND PAINTED TO MATCH THE ADJACENT FINISH OF SURROUNDING WALLS OR CEILING TO THE SATISFACTION OF THE	AIC AL, ALUM APPROX	AMPERE INTERRUPTING CAPACITY ALUMINUM APPROXIMATE	SS 🗹 FLS 🗹 ACS 🗖 DATE: <u>6/6/2023</u>
THROUGHOUT THE PROJECT, INĆLUD FOR THE DURATION OF THE PROJEC	R PART. DETERMINE THE SEQUENCE OF CONSTRUCTION ING TEMPORARY FACILITIES AND CONNECTIONS REQUIRED T. LL BE CONSIDERED PART OF THIS CONTRACT AND NO	OF WIRES TO THE CIRCUIT BREAKER. 26. REFER TO THE SINGLE LINE DIAGRAM FOR THE CONDUIT AND CONDUCTOR SIZES HOMERUN TO ELECTRICAL PANELS. CONDUIT RUNS MAY NOT BE SHOWN ON DRAWINGS, BUT ARE PART	ARCHITECT/OWNER. 3. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL EQUIPMENT AFFECTED BY THE PROJECT. THIS INCLUDES REROUTING OR THE	AUX AWG BAS BC	AUXILIARY AMERICAN WIRE GAGE BUILDING AUTOMATION SYSTEM BARE COPPER	ας
EXTRA CHARGES WILL BE ALLOWED. EQUIPMENT NECESSARY TO MEET TH 3. THE CONTRACTOR SHALL BE RESPO	THIS SHALL INCLUDE MINOR ITEMS OF MATERIAL OR IE REQUIREMENTS AND INTENT OF THE PROJECT. NSIBLE FOR THE SAFETY OF PERSONS AND PROPERTY	OF THIS CONTRACT. 27. ALL CONDUIT RUNS INCLUDING STRAIGHT FEEDER AND BRANCH CIRCUIT SHALL BE PROVIDED WITH SUFFICIENT PULL BOXES OR JUNCTION BOXES TO LIMIT THE MAXIMUM LENGTH OF ANY	EXTENSION OF EXISTING CONDUIT AND FEEDER WHERE NECESSARY TO MAINTAIN OPERATIONAL OF ANY EXISTING EQUIPMENT. 4. CIRCUIT NUMBERS AND CONDUIT HOMERUNS SHOWN ON THESE DRAWINGS WERE TAKEN	BDF BKR BLDG	BUILDING DISTRIBUTION FRAME BREAKER BUILDING	
PROPERTY DAMAGE, TO FULLY PROT AND ALL CLAIMS RESULTING FROM		SINGLE CABLE PULL TO 100 FEET. PULL BOXES SHALL BE SIZED PER CODE OR AS INDICATED ON DRAWINGS. LOCATIONS SHALL BE DETERMINED IN THE FIELD OR AS INDICATED ON THE DRAWINGS.	FROM EXISTING RECORD DRAWINGS. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO VERIFY EXISTING CIRCUITING AND CONDUIT HOMERUNS. ADJUST CIRCUIT NUMBERS ACCORDING TO THE ACTUAL CONDITIONS.	BLTS C CAB CAM	BUILDING LIGHTS CONDUIT CABINET CAMERA	
ELECTRICAL WORK. THE CONSTRUCT MILESTONES WITH COMPLETION DATE	O THE ARCHITECT A CONSTRUCTION SCHEDULE OF ALL ON SCHEDULE SHALL IDENTIFY ALL SIGNIFICANT S. RECORD DRAWINGS AT THE PROJECT SITE INDICATING ALL	28. FINAL CONNECTIONS TO ALL EQUIPMENT SHALL BE PER MANUFACTURER'S APPROVED WIRING DIAGRAMS, DETAILS, AND INSTRUCTIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE MATERIAL AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.	5. WHERE EXISTING CONDUIT IS TO BE ABANDONED OR DEMOLISHED, THE CONDUIT SHALL BE REMOVED IF IT IS EXPOSED, IN A CRAWL SPACE OR IN AN ACCESSIBLE CEILING. ABANDONED OR DEMOLISHED CONDUIT FEEDS UP THROUGH THE FLOOR SHALL BE CUT	CB CKT CLG CLR	CIRCUIT BREAKER CIRCUIT CEILING CLEARANCE	
MODIFICATIONS TO ELECTRICAL SYST	EMS. THE CONTRACTOR SHALL, AT THE CONCLUSION OF REPRODUCIBLE (AUTOCAD), ACCURATE AND NEAT	 29. DO NOT COMBINE DIFFERENT SYSTEM VOLTAGES IN SAME CONDUIT (EG., 120/208V VS. 277/480V), UNLESS IS APPROVED BY ENGINEER OR SHOWN ON DRAWINGS. 30. ELECTRICAL SYSTEMS SHALL BE INSTALLED FOR FINAL INSPECTIONS. PROVIDE NEUTRAL TEST 	OFF AND PLUGGED FLUSH WITH THE FLOOR.6. ALL ELECTRICAL EQUIPMENT INCLUDING LIGHT, RECEPTACLE, DATA, FIRE ALARM, ETC.,	CLR CLTS CMS C.O.	CLEARANCE CANOPY LIGHTS COMBINATION MOTOR STARTER CONDUIT ONLY W/PULLROPE	SALASO'BRIEN
	NT THE EXACT LOCATIONS, SIZES OR EXTENT OF UTILITIES STANDARD PRECAUTIONS FOR WORK IN EXISTING	AND PROOF OF TORQUE DURING FINAL INSPECTION FOR ALL UNITS. FINAL TERMINATIONS OF CONDUCTORS TO ELECTRICAL EQUIPMENT AND DEVICES SHALL BE TORQUE WRENCH TIGHTENED TO THE MANUFACTURER'S RECOMMENDED SPECIFICATION, NO EXCEPTION. 31. CIRCUIT BREAKER TERMINALS IN SWITCHBOARDS AND LOAD CENTER SHALL BE UL LISTED AND	THAT ARE TO BE REMOVED, SHALL BE REMOVED COMPLETELY, INCLUDING CONDUIT AND WIRING BACK TO THE LAST DEVICE REMAINING IN SERVICE, OR SOURCE. 7. EXISTING CIRCUITS WHICH ARE REMOVED AND NOT REUSED SHALL BE IDENTIFIED ON THE	CPT CT CTRL	CONTROL POWER TRANSFORMER CURRENT TRANSFORMER CONTROL	expect a difference
DISTURBED DUE TO CONSTRUCTION RESTORED TO OPERATING CONDITION	WILL NOT BE MADE OBSOLETE AND WHICH WILL BE CHANGES REQUIRED BY THIS CONTRACT SHALL BE I, AS REQUIRED AND/OR DIRECTED. WHERE REQUIRED, G AND CONDUIT RUNS SHALL BE RELOCATED. IN SOME	 31. CIRCUIT BREAKER TERMINALS IN SWITCHBOARDS AND LOAD CENTER SHALL BE OL LISTED AND APPROVED FOR USE COPPER 75 DEGREE CELSIUS CONDUCTORS. 32. SIZES OF BREAKERS, SWITCHES, FUSES AND FEEDERS ARE BASED ON DESIGNED EQUIPMENT SIZES. THESE SIZES SHALL BE ADJUSTED TO SATISFY REQUIREMENTS OF ACTUAL INSTALLED 	PANEL SCHEDULE AS "SPARE". 8. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO REMOVAL OF EXISTING ELECTRICAL EQUIPMENT AND TURN OVER REMOVED EQUIPMENT THAT THE OWNER	D DP DN FA	DEDICATED DISTRIBUTION PANEL DOWN EACH	305 South 11th Street San Jose, California 95112-22
CASES IT MÁY BE NECESSARY TO E JUNCTION BOXES AND SPLICE IN N	XTEND CONDUITS AND PULL IN NEW WIRING OR INSTALL EW WIRING OR REPLACE OLD WIRING WITH NEW.	OR SUBSTITUTE EQUIPMENT. UP SIZING OR DOWNSIZING OF FEEDERS SHALL BE PROVIDED WITHOUT ADDITIONAL COST TO THE OWNER. 33. AS REQUIRED ALL OVERSIZED FEEDERS THAT WERE ADJUSTED IN SIZE TO COMPENSATE FOR	9. ALL DEMOLITION WORK SHOWN, IF ANY, WAS PREPARED FOR THE CONVENIENCE OF THE	EF EHH ELEC	EXHAUST FAN ELECTRIC HANDHOLE ELECTRICAL	877.725.2755 877.925.1477 <u>WWW.SALASOBRIEN.COM</u>
BUILDING. EXISTING CONDUIT RUNS ATTEMPT HAS BEEN MADE TO SHOW BEEN TAKEN FROM EXISTING RECOR	ARE GENERALLY NOT SHOWN, ALTHOUGH A FULL SOME EXISTING CONDITIONS, OF WHICH INFORMATION HAS D DRAWINGS AND/OR LIMITED FIELD INVESTIGATIONS. THE XISTING EQUIPMENT, OUTLETS, FIXTURES, ETC., ARE	VOLTAGE DROP SHALL BE PROVIDED WITH ADAPTER LUGS OR SPLICE BOX. ADAPTER LUGS SHALL BE PROVIDED IF SIZE IS AVAILABLE. OTHERWISE PROVIDE CABLE SPLICES IN THE SPLICE BOX TO REDUCE CABLES TO THE MAXIMUM SIZE THAT THE BREAKER LUGS CAN ACCOMMODATE.	CONTRACTOR. NO REPRESENTATION HAS BEEN MADE THAT ALL ITEMS THAT MAY REQUIRE DEMOLITION HAVE BEEN SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CAREFULLY EXAMINE THE SITE AND THE CONTRACT DOCUMENTS AND TO PERFORM ALL DEMOLITION AND RECONSTRUCTION WHICH MAY BE REQUIRED FOR THE PROPER	EM EMH EMS	EMERGENCY; ON EMERGENCY POWER SUPPLY/PANEL ELECTRIC MANHOLE ENERGY MANAGEMENT SYSTEM	National Strength. Local Action.
APPROXIMATE ONLY (CONTRACTOR T 9. ALL ELECTRICAL MATERIALS AND EQ LABELED BY A NATIONALLY RECOGN	O FIELD VERIFY). UIPMENT SHALL BE NEW AND SHALL BE LISTED AND ZED TESTING LABORATORY AND SHALL BE INSTALLED AS	34. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAW-CUTTING, TRENCHING, BACKFILLING, COMPACTION AND PATCHING OF CONCRETE AND ASPHALT AS REQUIRED TO COMPLETE WORK. USE EXTREME CAUTION WHEN TRENCHING NEAR EXISTING UNDERGROUND UTILITY LINE.	10. WHEN CALLED FOR, OR SCOPE OF WORK REQUIRES ELECTRICAL EQUIPMENT TO BE	EMT EQUIP <e> <err></err></e>	ELECTRICAL METALLIC TUBING EQUIPMENT EXISTING EXISTING TO REMAIN AND RECONNECTED	
10. ALL ELECTRICAL EQUIPMENT AND IN REQUIREMENTS:	MUM FUSE SIZE MEANS FUSE PROTECTION IS REQUIRED). STALLATION SHALL COMPLY WITH THE FOLLOWING	CONTRACTOR SHALL PROVIDE ALL REQUIRED CUTTING, PATCHING, PAINTING, AND REPAIRS NECESSARY TO RESTORE DAMAGED SURFACES TO EQUAL OR BETTER THAN ORIGINAL CONDITIONS EXISTING AT THE START OF WORK. 35. ALL ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST HORIZONTAL FORCE	REMOVED, ALL CONDUIT, WIRE, BOXES, HANGERS, ETC. SHALL BE REMOVED COMPLETELY. ALL OPENINGS SHALL BE PATCHED, SEALED AND PAINTED TO MATCH THE ADJACENT FINISH.	EST EV EX	ESTIMATED ELECTRIC VEHICLE EXAMPLE	State PROFESSIONAL THE
a. AMERICAN STANDARD ASSOCIA b. AMERICAN NATIONAL STANDARD c. AMERICAN SOCIETY OF TESTIN d. CALIFORNIA CODE OF REGULA) INSTITUTE (ANSI) G MATERIALS (ASTM)	ACTING IN ANY DIRECTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF ASCE. 36. RIGID GALVANIZED STEEL CONDUIT SHALL BE USED FOR ALL EXTERIOR APPLICATIONS, ALL		<f> FDR FIC</f>	FUTURE FEEDER FUEL ISLAND CONTROL FULL LOAD AMPS	No. E18084
e. INSTITUTE OF ELECTRICAL AND f. INSULATED POWER CABLE ENG g. NATIONAL ELECTRICAL MANUFA h. NATIONAL FIRE PROTECTION AG	INEERS ASSOCIATIONS (IPCEA) CTURERS ASSOCIATIONS (NEMA)	CONDUITS LARGER THAN 2" TRADE DIAMETER, AND ALL INDOOR CONDUITS BELOW EIGHT (8) FEET FROM FINISHED FLOOR. 37. ELECTRICAL METALLIC TUBING (EMT) IS ONLY ALLOWED IN INTERIOR LOCATION ABOVE EIGHT	SYMBOLS	FLC FT, ' GEN	FULL LOAD CURRENT FEET GENERATOR	
i. ALL LOCAL CODE HAVING JUR		 (8) FEET FROM FINISHED FLOOR AND WHEN ENTERING A PANEL FROM ABOVE. 38. CONNECTIONS TO VIBRATING EQUIPMENT (MOTOR, TRANSFORMER ENCLOSURE, ETC.) AND SEISMIC SEPARATIONS SHALL BE PROVIDED WITH LIQUID-TIGHT FLEXIBLE STEEL CONDUIT WITH 		GFI GND HCLTS	GROUND FAULT CIRCUIT—INTERRUPTER GROUND HAZMAT CANOPY LIGHTS	CHABOT COLLEG
*+ RESPONSIBLE FOR THE ELECTRICAL	ERNMENTAL AGENCIES. CONTRACTOR SHALL BE UTILITY SYSTEM SHUT—DOWNS AND START—UP. .E FOR COORDINATION REQUIRED WITH OTHER AGENCIES	WATERTIGHT CONNECTORS. MAXIMUM LENGTH OF CONDUIT SHALL BE SIX FEET, UNLESS OTHERWISE NOTED. 39. POLYVINYL CHLORIDE (PVC) SCHEDULE 40 MAY BE INSTALLED BENEATH SLAB AND	 NEW TO EXISTING CONNECTION WORK ITEM (ELECTRICAL) DETAIL 	HOA HP HT HV	HAND–OFF–AUTO HORSEPOWER HEIGHT HIGH VOLTAGE	POSITAS COMMUN
	COORDINATING ALL CROSSINGS ON NEW UTILITIES WITH ADJACENT PROPERTIES. NOTIFY THE ENGINEER DISCREPANCIES FROM THIS PLAN.	UNDERGROUND INSTALLATIÓN. INSTALL PVC COATED RIGID STEEL CONDUIT FOR TRANSITION FROM UNDERGROUND TO ABOVE GRADE INSTALLATION. 40. CONTRACTOR SHALL PROVIDE TERMINATIONS FOR ALL DATA/VOICE CABLES INDICATED AT	M-1 DESIGNATION DRAWING NUMBER (IF BLANK, SAME SHEET) CT EQUIPMENT	HZ ", IN JB, J	HERTZ INCHES JUNCTION BOX	25555 HESPERIAN BOULEVARI
PERFORM WORK TO ACCOMPLISH SA SHOWN ON THE DRAWINGS SHALL E	S/HER WORK WITH OTHER TRADE ON SITE. ANY COST TO ND COORDINATION WHICH DIFFERS FROM THE WORK AS BE INCURRED BY THE CONTRACTOR. ANY DISCREPANCIES, BE BROUGHT TO THE ATTENTION OF THE ARCHITECT	OUTLET LOCATIONS INDICATED ON DRAWINGS. 41. CONTRACTOR SHALL PROVIDE AND INSTALL ACCESS PANELS IN NON-ACCESSIBLE CEILINGS WHERE REQUIRED TO ACCESS ELECTRICAL EQUIPMENT IN CEILING SPACE. ACCESS DOORS SHALL HAVE FIDE DATING FOUND TO THE OFFICIAL EQUIPMENT IN WINCH THEY ADD INSTALLED	DESIGNATION M-1 DESIGNATION DESIGNATION DESIGNATION DESIGNATION (IF BLANK, SAME SHEET)	Kcmil KV KVA KW	THOUSAND CIRCULAR MILS KILOVOLT KILOVOLT AMPERE KILOWATT	HAYWARD, CALIFORNIA 94545
DURING BID TIME FOR CLARIFICATION	NS. ANY SUCH CONFLICTS NOT CLARIFIED PRIOR TO BID RETATION OF THE ARCHITECT/ENGINEER AT NO ADDITIONAL	SHALL HAVE FIRE RATING EQUAL TO THE CEILING ASSEMBLY IN WHICH THEY ARE INSTALLED. 42. ALL FIRE LIFE SAFETY EQUIPMENT, SUCH AS FIRE ALARM CONTROL PANEL AND REMOTE POWER SUPPLIES SHALL BE PROVIDED WITH DEDICATED CIRCUITS. IDENTIFY CIRCUIT DESIGNATION AND PROVIDE PERMANENT LABELING, "FIRE ALARM CIRCUIT" ON ELECTRICAL		L LTG LTS	LENGTH LIGHTING PERIMETER LIGHTS	UPDATE TO: BUILDI 1800 ELECTRICAL
EQUIPMENT. PROVIDE POWER AND C ELECTRICAL CONNECTIONS AS INDICA TRADES. CONTRACTOR SHALL REVIEW	S TO THE EXACT LOCATION OF THEIR RESPECTIVE ONNECTION TO MOTORS AND EQUIPMENT REQUIRING ATED ON ELECTRICAL DRAWINGS AND DRAWINGS OF OTHER V DRAWINGS OF OTHER TRADES FOR CONTROL DIAGRAMS,	43. CONTROL CONDUIT FOR ENERGY/BUILDING MANAGEMENT SYSTEM (E/BMS) SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.	* * * * + →) DEMOLISHED	LV MAX MCP MDE	LOW VOLTAGE MAXIMUM MOTOR CIRCUIT PROTECTOR MAIN DISTRIBUTION FRAME	RE-FEED
CONTROL WIRING FOR MECHANICAL ELECTRICAL CONTRACTOR. CONTRACT MANUFACTURER'S SHOP DRAWINGS	DISCONNECT SWITCHES, STARTERS, AND CONDUITS FOR AND PLUMBING EQUIPMENT SHALL BE PROVIDED BY OR SHALL BE RESPONSIBLE FOR OBTAINING PRIOR TO ROUGHING IN ALL CONDUITS TO THIS	44. ROUTE CONDUIT PARALLEL AND PERPENDICULAR TO WALLS AND ADJACENT PIPING. ARRANGE CONDUIT TO MAINTAIN HEADROOM AND TO PRESENT A NEAT APPEARANCE.	BRANCH CIRCUIT WIRING IN CONDUIT CONCEALED IN CEILING SPACE OR WHERE POSSIBLE, EXPOSED ON ROOF OR BUILDING EXTERIOR. BRANCH CIRCUIT WIRING IN CONDUIT CONCEALED UNDER FLOOR,	MIN MSB MTS	MAIN DISTRIBUTION FRAME MINIMUM MAIN SWITCHBOARD MANUAL TRANSFER SWITCH	DSA #01-120880
EQUIPMENT, ELECTRICAL CONNECTION	UNTING HEIGHTS AND EXACT LOCATIONS FOR ALL NS, STUB-UPS, RECEPTACLES, OUTLETS, CONDUIT RUNS,	45. WHEN A DISCREPANCY IN QUANTITY OR SIZE OF CONDUIT, WIRE, EQUIPMENT, CIRCUIT BREAKERS, ETC., ARISES ON THE DRAWINGS OR SPECIFICATIONS, CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL REQUIRED BY THE MOST STRINGENT CONDITIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS TO PROVIDE A	UNDERGROUND OR WHERE POSSIBLE. BRANCH CIRCUIT HOME RUN TO PANEL. CONCEALED IN CEILING SPACE * OR WHERE POSSIBLE. * PANEL BOARD & CIRCUIT #	MV <n></n> NEC	MEDIUM VOLTAGE NEW (BOLD) NATIONAL ELECTRIC CODE	MARK DATE DESCRIPTION 12/16/22 50%CD 03/24/23 DSA SUBMITTAL
ETC. AND IN BATHROOMS SO AS NO	PLACE DEVICES LOCATED ABOVE COUNTERS, SHELVING, DT TO CONFLICT WITH EDGES OF WAINSCOTING, COUNTER JRAL DRAWINGS SHALL GOVERN. REFER TO ARCHITECTURAL OF ELECTRICAL DEVICES	COMPLETE AND OPERABLE SYSTEM, OR AS DIRECTED BY ENGINEER. 46. FOR SMALL AC MOTORS NOT HAVING BUILT-IN THERMAL OVERLOAD PROTECTION, PROVIDE MANUAL MOTOR STARTERS WITH OVERLOAD HEATER ELEMENTS SIZED PER MANUFACTURER'S	EXISTING DEVICES, CONDUITS, WIRES, ETC TO REMAIN NEW (BOLD) DEVICES, CONDUITS, WIRES, ETC.	NEMA NO N.T.S.	NATIONAL ELECTRIC MANUFACTURERS ASSOCIATION NUMBER NOT TO SCALE POWER	05/26/23 DSA BACKCHECK
AREA SHALL BE MOUNTED AT THE RECEPTACLES OUTLETS	L DEVICES TO BE USED BY OCCUPANT OF THE ROOM OR FOLLOWING HEIGHTS: : +18" (TO BOTTOM OF OUTLETS) : +18" (TO BOTTOM OF OUTLETS)	RECOMMENDATION. FOR SMALL AC MOTORS WITH BUILT-IN THERMAL OVERLOAD PROTECTION, PROVIDE A HORSEPOWER RATED TOGGLE DISCONNECT SWITCH. 47. DISCONNECT SAFETY SWITCHES SHALL BE HEAVY DUTY AND BE RATED FOR THE NUMBER OF POLES, VOLTAGE, CURRENT AND HORSEPOWER RATING AS REQUIRED. PROVIDE FUSE	CONDUIT UP CONDUIT DOWN	г Р# РВ РРВ	LIGHT POLE NUMBER PULLBOX POWER PULLBOX	· · · · · · · · · · · · · · · · · · ·
LIGHT SWITCHES OUTLETS ABOVE COUNTER MOUNTING HEIGHTS OF ALL DEVICES	: +18 (TO BOTTOM OF OUTLETS) : +44" (TO HIGHEST OPERABLE PART) : +12" ABOVE COUNTER (TO BOTTOM OF OUTLETS) AND EQUIPMENT ARE FROM FINISHED FLOOR TO PUIPMENT INSTALLED IN LOCATIONS NOT APPROVED BY THE	48. PROVIDE PERMANENT IDENTIFICATIONS (NAMEPLATE RATING AS REQUIRED. PROVIDE FUSE SWITCHBOARDS, MOTOR CONTROL CENTERS, DISCONNECT SWITCHES, TRANSFORMERS, TERMINAL	DUPLEX RECEPTACLE 20A, 165V, 3WG, NEMA 5-20R - CEILING/FLOOR MOUNTED PD DEDICATED RECEPTACLE	PF PH OR Ø PLTS	POWER FACTOR PHASE PARKING LOT LIGHTS	
ARCHITECT SHALL BE RELOCATED AS TO THE OWNER.	S DIRECTED BY THE ARCHITECT AT NO ADDITIONAL COST	49. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO VERIFY TYPE OF CEILING SYSTEMS AND TO FURNISH APPROVED LIGHTING FIXTURES OF THE TYPE REQUIRED FOR MOUNTING IN SUBJECT	 WALL-MOUNTED DUPLEX RECEPTACLE 20A, 125V, 3WG, NEMA 5-20R, +18"AFF WALL-MOUNTED DUPLEX RECEPTACLE MOUNTED 6" 	PNL PNLA PPMH PV	PANEL PANEL 'A' FEEDER PRIMARY POWER MANHOLE/ PULLBOX OR VAULT PHOTOVOLTAIC	
Image: Space between faceplate and definition work, the contraction work, the contraction work, the contraction work and boxes in Image: Space between faceplate and definition work, the contraction work, the contraction work and boxes in	EVICE BOX SHALL NOT EXCEED 1/8". RACTOR SHALL CONCEAL ALL WORK WHERE POSSIBLE. ALL OCCUPIED AREAS OR ON EXTERIOR WALLS SHALL BE	CEILING. PROVIDE ALL NECESSARY MOUNTING KIT/HARDWARE TO PROVIDE A COMPLETE WORKING LIGHTING SYSTEM. 50. ALL FINAL ELECTRICAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT SHALL BE MADE BY	ABOVE COUNTER. 20A, 125V, 3WG, NEMA 5–20R GROUND FAULT INTERRUPTER–WALL–MOUNTED DOUBLE DUPLEX RECEPTACLE MOUNTED 6" ABOVE	PV PWR <r> <rrn></rrn></r>	PHOTOVOLIAIC POWER REMOVE REMOVE & REPLACE W/ <n></n>	SOBE PROJECT NO:2DATE:12,
F→ PAINTED TO MATCH ADJACENT FINISI 19. THE CONTRACTOR SHALL BE HELD ALL EXISTING SURFACES REQUIRING	HES. FULLY RESPONSIBLE FOR THE PROPER RESTORATION OF PATCHING, PLASTERING, PAINTING AND/OR OTHER REPAIR	THE ELECTRICAL CONTRACTOR. 51. ALL SPLICES AND TERMINALS SHALL BE COMPRESSION TYPE, OF SEAMLESS PURE COPPER, TIN PLATED, LONG BARREL, INSPECTION WINDOW, TERMINALS WITH TWO-HOLE PAD (WITH	COUNTER. 20A, 125V, 3WG, (2) NEMA 5–20R WALL-MOUNTED DOUBLE DUPLEX RECEPTACLE 20A, 125V, 3WG, (2) NEMA 5–20R, +18"AFF	REC S SEC	RECEPTACLE SIGNAL SECONDARY	DRAWN BY: CHECKED BY: APPROVED BY:
CLOSE ALL OPENINGS, REPAIR ALL 20. SEAL ALL CONDUIT PENETRATIONS T	HROUGH FIRE RATED WALLS AND CEILINGS. FURNISH AND	NEMA DRILLING). CLEAN ALL SURFACES AND INSTALL WITH OXIDE INHIBITING COMPOUND BURNDY PENETROX—E OR EQUAL. APPLY COMPOUND BETWEEN BUS BAR AND LUG PAD AND BETWEEN CONDUCTOR AND LUG BARREL. INSTALL COMPRESSION CONNECTORS WITH A FULLY CIRCUMFERENTIAL COMPRESSION DIE BURNDY HYPRESS OR EQUAL.	 ♀ ♀ ↔ ↔	SF SH, SHT SLTS	SQUARE FEET SHEET SITE LIGHTS	SHEET TITLE
WALLS WHERE RECESSED ELECTRIC RECEPTACLES, PANEL, ETC. ARE INS FIRE RATED WALLS, CEILINGS, OR F	REQUIRED, MAINTAINING FIRE RATING OF CEILING OR EQUIPMENT SUCH AS LIGHT FIXTURES, SWITCHES, ITALLED IN RATED WALL OR CEILINGS. PENETRATIONS OF LOORS SHALL COMPLY WITH UBC CHAPTER 7	52. LABEL ALL CONDUIT WHERE IT BEGINS, AND WHERE IT TERMINATES INTO A BOX, PANEL, DEVICE, LOAD, OR DISCONNECT. CONDUIT SHALL BE LABELED EVERY 30 FEET OR LESS. CONDUIT SHALL BE LABELED WHERE IT PENETRATES ANY WALL OR FLOOR. LABEL SHALL BE	$\bigcirc, \square, \square$ junction box – ceiling/floor/roof/wall mounted	SPEC SPB STD	SPECIFICATIONS SIGNAL PULLBOX STANDARD	ELECTRICAL GENERAL NOTES, SYMBOLS &
SHALL MEET F AND T RATING. ALL	TIONS THAT ARE NOT STUBBED-OUT INSIDE THE WALL FIRE PROOFING METHOD SHALL BE UL APPROVED. NEMA 3R RATED. ALL WALL PENETRATIONS TO EXTERIOR	PERMANENT PRINTED LABELS (DESCRIBING SOURCE, CIRCUIT, AND LOAD) LEGIBLE FROM FLOOR WHERE POSSIBLE (STANDING POSITION). 53. CONTRACTOR'S FAILURE TO ORDER OR RELEASE ORDER FOR MATERIALS AND/OR EQUIPMENT	 ▼ (1) RJ-11 VOICE OUTLET W/FACEPLATE □¬ NON-FUSED DISCONNECT SWITCH, WALL MOUNTED, +54"AFF. 	SVC SW SWBD	ELECTRIC SERVICE SWITCH SWITCHBOARD SWITCHCEAR	ABBREVIATIONS
22. PULLING TAPES: ALL RACEWAY WIT	HOUT CABLE OR WIRE SHALL BE INSTALLED WITH A I POLYESTER PULLING TAPE. PULLING TAPES SHALL BE	WILL NOT BE ACCEPTED AS A REASON TO SUBSTITUTE ALTERNATE MATERIALŚ, EQUIPMENT OR INSTALLATION METHODS. 54. PROVIDE ARC-FLASH HAZARD WARNING LABELS ON ALL EFFECTED ELECTRICAL EQUIPMENT,	 ✓ FUSED DISCONNECT SWITCH, WALL MOUNTED, +54"AFF. ✓ FUSED DISCONNECT SWITCH, WALL MOUNTED, +54"AFF. ✓ COMPLIATION MOTOR STARTER FUSED DISCONNECT SWITCH. 	SWGR OR SWG SSW TYP TX, XFMR	SWITCHGEAR MV SELECTOR SWITCH TYPICAL TRANSFORMER	
	ARRYING CONDUCTORS IN ANY WIREWAY UNLESS	INCLUDING SWITCHBOARDS, PANEL BOARDS, INDUSTRIAL CONTROL PANELS, METER SOCKET ENCLOSURES, AND MOTOR CONTROL CENTERS. MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS. LABEL SHALL BE FACTORY PRE-PRINTED OR MACHINE-PRINTED SELF-ADHESIVE VINYL MATERIAL; UV, CHEMICAL, WATER, HEAT AND ARRASION DESISTANT, PRODUCED USING MATERIALS DECOONIZED BY UN 260 MINIMUM SIZE.	 COMBINATION MOTOR STARTER FUSED DISCONNECT SWITCH, WALL MOUNTED, +54"AFF. \$ SINGLE POLE TOGGLE SWITCH, WALL MOUNTED, +44" AFF. 	UG UON V	UNDERGROUND UNLESS OTHERWISE NOTED VOLT	SCALE: AS THIS DRAWING IS 24" x 36" AT FUL
µ ↓		ABRASION RESISTANT; PRODUCED USING MATERIALS RECOGNIZED BY UL 969. MINIMUM SIZE: 3.5 BY 5 INCHES.		VA VFD	VOLT-AMPERE VARIABLE FREQUENCY DRIVE	E-0.0



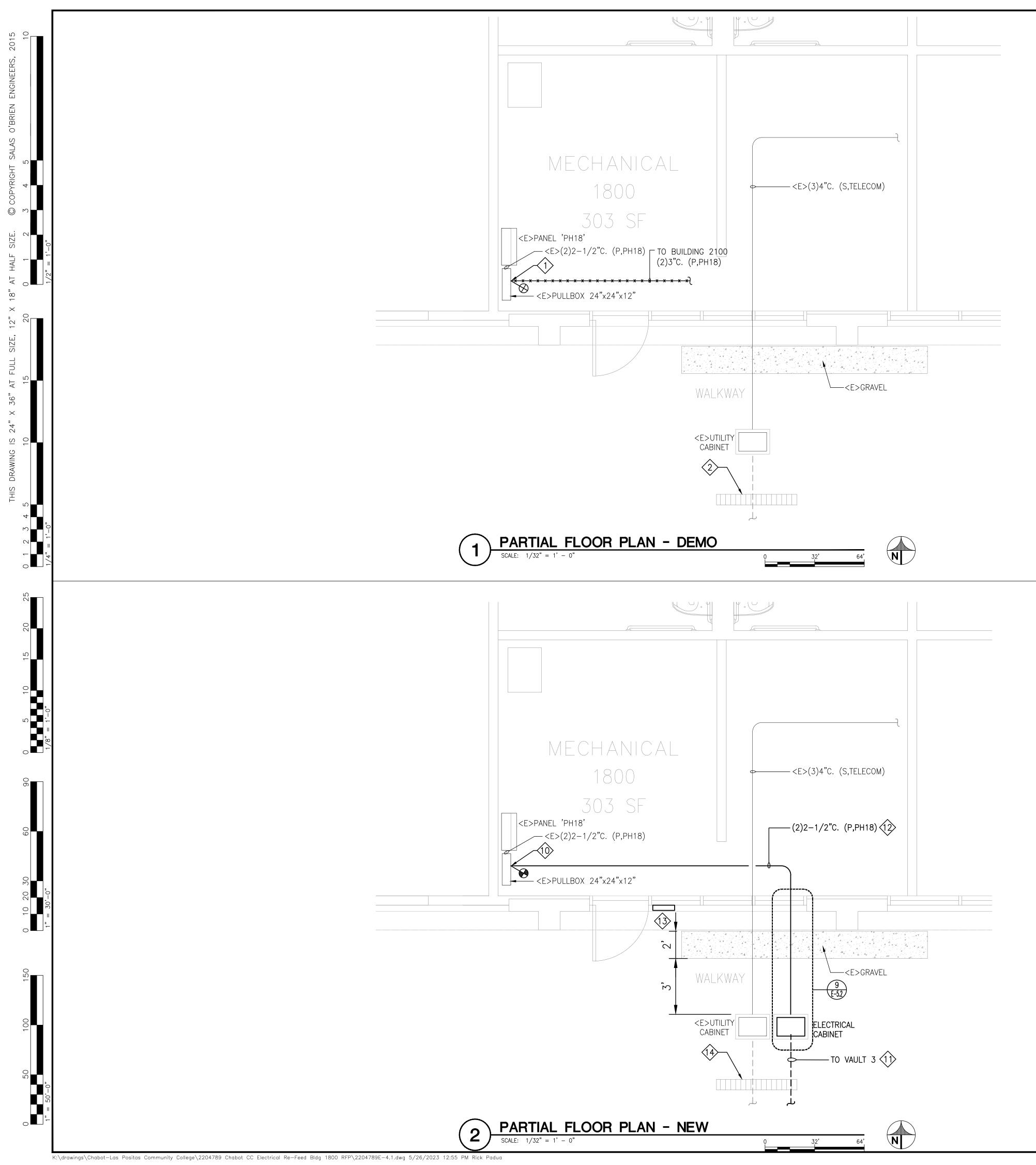
		IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 01-120880 INC: REVIEWED FOR SS ☑ FLS ☑ ACS □ DATE: 6/6/2023
		SALASO'BRIEN expect a difference 305 South 11th Street San Jose, California 95112-2218 877.725.2755 877.925.1477 (f) WWW.SALASOBRIEN.COM
		National Strength. Local Action. consultant
		PROFESS/ONLY WE FRY COOT IN No. EN0084 POP CALIFORNIT
		CHABOT COLLEGE CHABOT-LAS POSITAS COMMUNITY COLLEGE DISTRICT
		25555 HESPERIAN BOULEVARD HAYWARD, CALIFORNIA 94545 UPDATE TO: BUILDING
		1800 ELECTRICAL RE-FEED DSA #01-120880
		ISSUE MARK DATE DESCRIPTION 12/16/22 50%CD 03/24/23 DSA SUBMITTAL 05/26/23 DSA BACKCHECK
		SOBE PROJECT NO:2204789DATE:12/02/22DRAWN BY:MLCHECKED BY:JGAPPROVED BY:
		SHEET TITLE ELECTRICAL SITE PLAN
		SCALE: AS NOTED THIS DRAWING IS 24" x 36" AT FULL SIZE
	LOW VOLTAGE LINE - ABANDONED 12/15 KV LINE - 12/15 KV LINE	E-1.0
——— ну ———	- 12/13 KV LINE	SHEET OF X



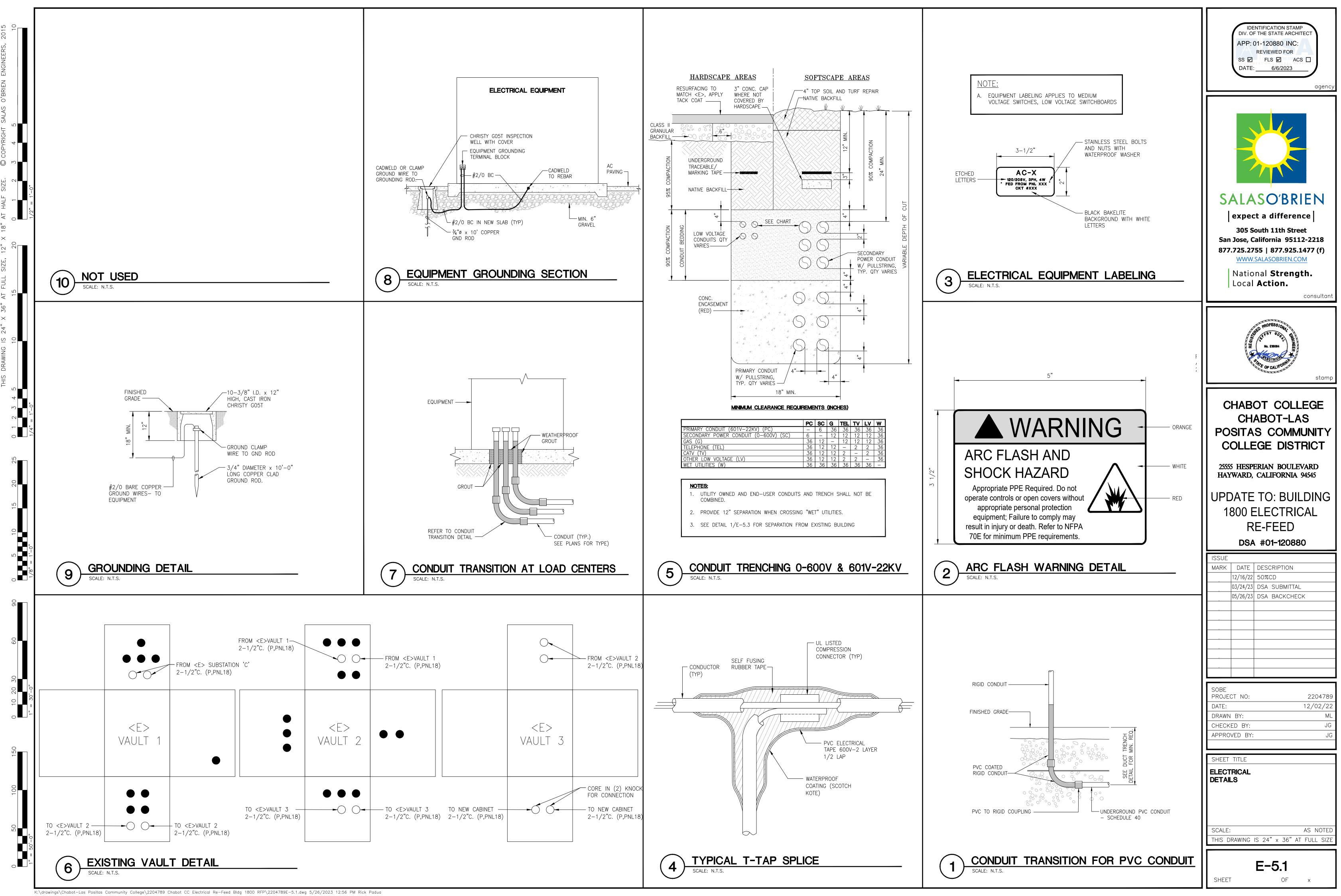
GENERAL SHEET NOTES	
A. DEVICES SHOWN BEING DEMOLISHED SHALL BE DISCONNECTED AND REMOVED. REMOVE ALL CONDUIT AND WIRES BACK TO SOURCE UNLESS OTHERWISE	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
 B. WIRING DEVICES SHOWN AS EXISTING TO REMAIN CONNECTED AND SHALL BE PROTECTED DURING CONSTRUCTION. CONTRACTOR SHALL RECONNECT ALL DEVICES AFFECTED BY WORK AND RESTORE TO ORIGINAL CONDITION. 	APP: 01-120880 INC: REVIEWED FOR SS I FLS ACS D DATE: <u>6/6/2023</u>
C. PATCH AND PAINT WALL, CEILING AND ANY OTHER OPENINGS LEFT BY DEMOLISHED EQUIPMENT/CONDUITS, ETC. MATCH ADJACENT CONSTRUCTION AND	agency
FINISH. D. DEMOLISHED CONDUIT AND WIRING TO BE REMOVED BACK TO SOURCE.	
 E. THE SCOPE OF THE DEMOLITION SHALL INCLUDE ALL LABOR TO PROPERLY AND SAFELY DESPOSE OF DEMOLISHED EXISTING EQUIPMENT. VERIFY EXACT SCOPE PRIOR TO COMMENCING WORK. REFER TO DEMO PLAN FOR SPECIFIC AREAS NOT IN SCOPE. F. PROVIDE FENCING AND WAY FINDING SIGNAGE AS REQUIRED. 	
	SALASO'BRIEN
	expect a difference 305 South 11th Street
REFERENCE SHEET NOTES	San Jose, California 95112-2218 877.725.2755 877.925.1477 (f)
 DISCONNECT AND REMOVE EXISTING CONDUITS AND WIRES BACK TO SOURCE. CAP AND STUB UNDERGROUND CONDUITS IN PLACE. RETURN CONDUCTORS BACK TO DISTRICT. 	WWW.SALASOBRIEN.COM National Strength.
 EXISTING GROUND ROD THOUGH EXISTING CONDUIT. REMOVED GROUND ROD AND REPAIR CONDUITS. INSTALL NEW GROUND ROD SEE NEW WORK. 	Local Action.
	PROFESS/ONAL BUT FRY COGINE WE ENORAL PROFESS/ONAL BUT COTRICING CONTRICTION COTRICTIONI
	CHABOT COLLEGE CHABOT-LAS
	POSITAS COMMUNITY COLLEGE DISTRICT
	25555 HESPERIAN BOULEVARD HAYWARD, CALIFORNIA 94545
	UPDATE TO: BUILDING 1800 ELECTRICAL RE-FEED
	DSA #01-120880
	ISSUE MARK DATE DESCRIPTION
	12/16/22 50%CD 03/24/23 DSA SUBMITTAL
	05/26/23 DSA BACKCHECK
	SOBE PROJECT NO: 2204789
	DATE: 12/02/22 DRAWN BY: ML CHECKED BY: JG
	APPROVED BY: JG
	SHEET TITLE
	ELECTRICAL PARTIAL SITE PLAN - DEMO
	SCALE: AS NOTED
	THIS DRAWING IS 24" x 36" AT FULL SIZE
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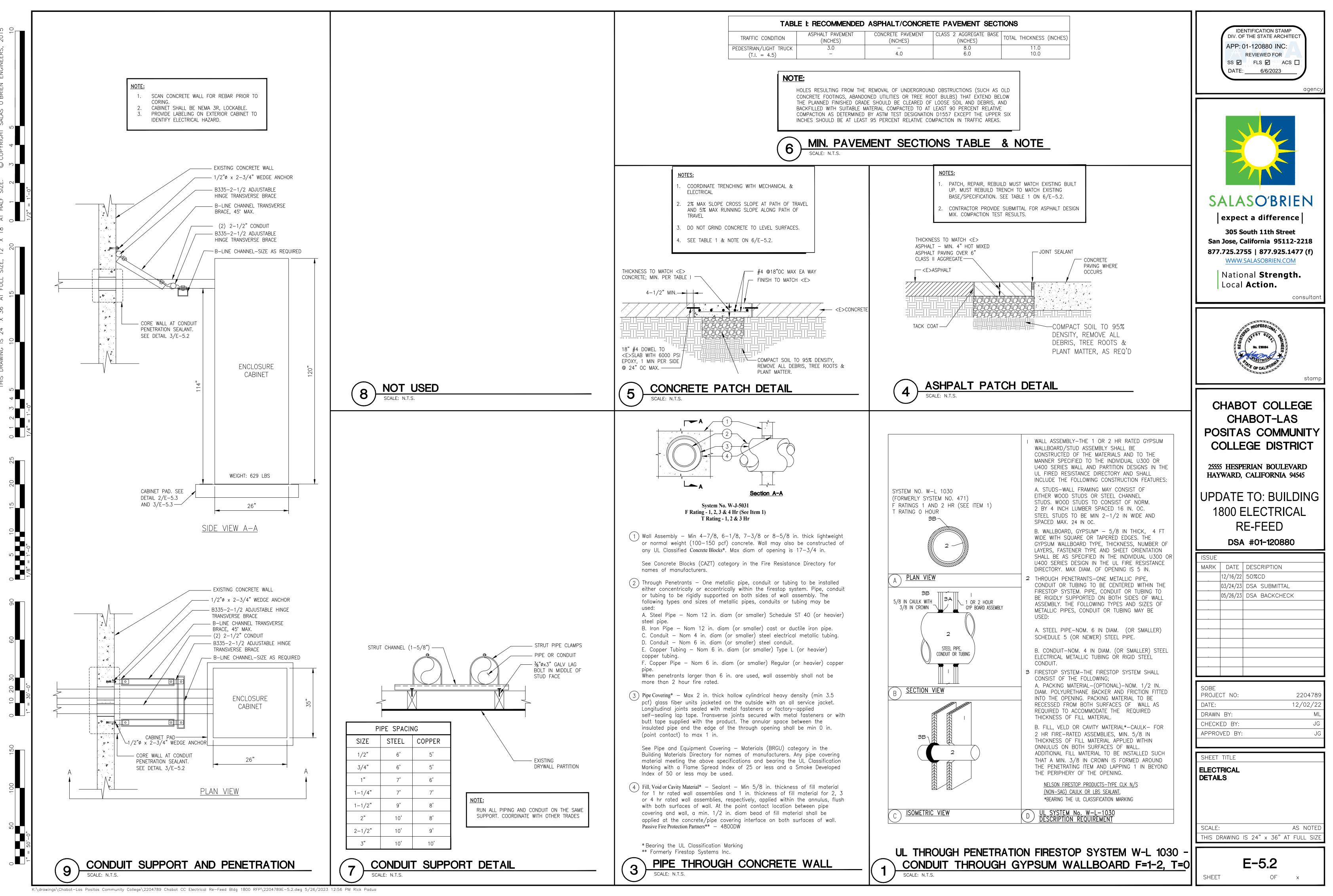


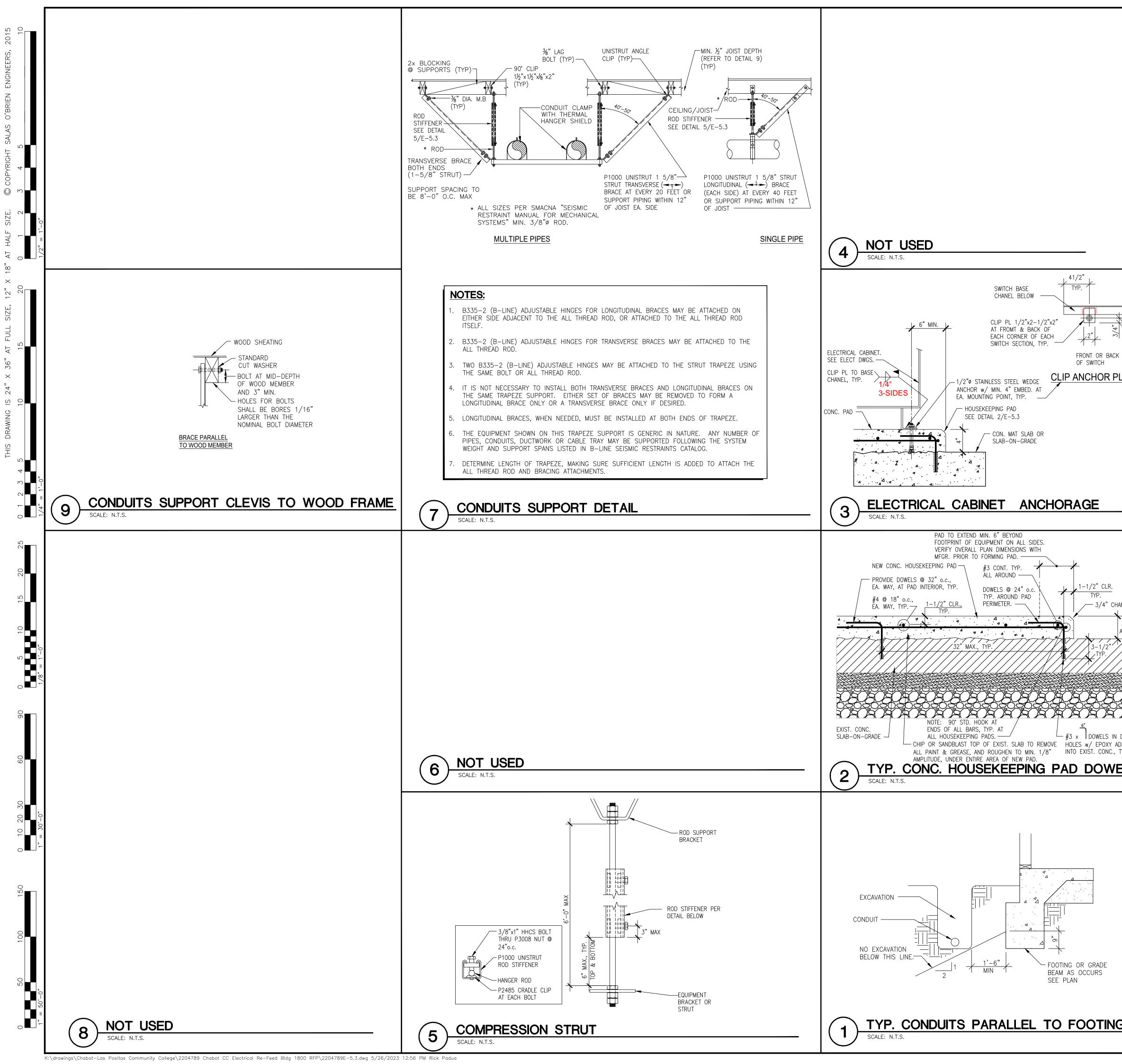
GENERAL SHEET NOTES	
 A. CONTRACTOR RESPONSIBLE FOR MAINTAINING CONECTIVITY TO ALL EXISTING SYSTEM AFFECTED BY NEW WORK, INCLUDING INTERCEPTING AND EXTENDING EXISTING CIRCUITS AS NEEDED. CONTRACTOR RESPONSIBLE FOR TERMINATIONS AND RETESTING OF SYSTEMS. B. REFER TO SINGLE LINE DIAGRAM FOR CONDUIT AND WIRE SIZES. C. DEVICE LOCATION SHOW IS DIAGRAMMATIC, FIELD VERIFY EXACT LOCATION AND 	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 01-120880 INC: REVIEWED FOR SS ☑ FLS ☑ ACS □ DATE: <u>6/6/2023</u>
 DEVICE ECONTION SHOW IS DIACTORNIANC, FIELD VERITY EXACT ECONTION AND COUNT, ADJUST LOCATION +/- 10' AT NO ADDITIONAL COST. D. FIRE SEAL ALL RATED PENETRATIONS. 	agency
 E. CONTRACTOR SHALL BE RESPONSIBLE FOR RETURNING ANY SURFACE DISTURBED BY CONSTRUCTION TO THE CONDITION AND FINISH OF THE ADJACENT 	
SURFACES. F. PROVIDE FENCING AND WAY FINDING SIGNAGE AS REQUIRED.	
	SALASO'BRIEN
	expect a difference 305 South 11th Street
REFERENCE SHEET NOTES	San Jose, California 95112-2218 877.725.2755 877.925.1477 (f)
1. PROVIDE AND INSTALL NEW FEEDER CONDUCTORS INTO EACH EXISTING	WWW.SALASOBRIEN.COM
UNDERGROUND CONDUITS (2 SETS TOTAL). EXTEND EXISTING CONDUITS TO SUBSTATION 'C' AS NECESSARY. FIELD VERIFY EXISTING CONDUIT LOCATION.	National Strength. Local Action.
2. EXISTING VAULT TO BE REMAIN. REFER DETAIL VAULT DETAIL 6/E-5.1.	consultant
 INSTALL NEW GROUND ROD IN NEW U/G BOX. INTERCEPT AND EXTEND EXISTING CONDUIT AND WIRING TO NEW LOCATION. TEST GROUNDING RESISTANCE TO OBTAIN 25 OHM MAX. PROVIDE ADDITIONAL GROUND RODS AS NECESSARY. REFER TO DETAILS. VERIFY LOCATION ON SITE. FIELD VERIFY EXISTING SPARE CONDUITS CONDITION. INTERCEPT AND EXTEND 	PROFESS/ONAL STEP RY COST - HE STEPRE
EXISTING SPARE CONDUITS. REPAIR BROKER CONDUITS AS NECESSARY. 5. PROVIDE AND INSTALL ELECTRICAL NEMA 3R ENCLOSURE HOFFMAN CABINET WITH	
CIRCLE AW, COOPER B-LINE. CABINET SIZE 35"W x 26"D x 120"H. 6. NEW CONDUITS AND CONDUCTORS. REFER TO SINGLE LINE DIAGRAM.	stamp
	CHABOT COLLEGE CHABOT-LAS
	POSITAS COMMUNITY COLLEGE DISTRICT
	25555 HESPERIAN BOULEVARD HAYWARD, CALIFORNIA 94545
	UPDATE TO: BUILDING 1800 ELECTRICAL RE-FEED
	DSA #01-120880
	ISSUE MARK DATE DESCRIPTION 12/16/22 50%CD 03/24/23 DSA SUBMITTAL 05/26/23 DSA BACKCHECK
	SOBE PROJECT NO:2204789DATE:12/02/22DRAWN BY:MLCHECKED BY:JGAPPROVED BY:
	SHEET TITLE Electrical Partial Site Plan - New
	SCALE: AS NOTED THIS DRAWING IS 24" x 36" AT FULL SIZE
	E-1.1 SHEET OF X



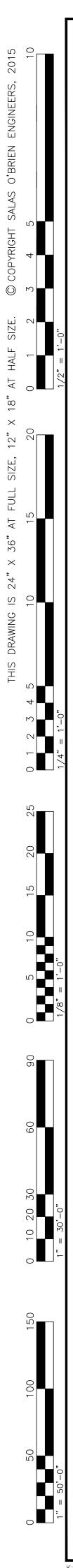
GENERAL SHEET NOTES	
 A. CONTRACTOR RESPONSIBLE FOR MAINTAINING CONECTIVITY TO ALL EXISTING SYSTEM AFFECTED BY NEW WORK, INCLUDING INTERCEPTING AND EXTENDING EXISTING CIRCUITS AS NEEDED. CONTRACTOR RESPONSIBLE FOR TERMINATIONS AND RETESTING OF SYSTEMS. B. REFER TO SINGLE LINE DIAGRAM FOR CONDUIT AND WIRE SIZES. 	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 01-120880 INC: REVIEWED FOR SS ☑ FLS ☑ ACS □ DATE: <u>6/6/2023</u>
 C. DEVICE LOCATION SHOW IS DIAGRAMMATIC, FIELD VERIFY EXACT LOCATION AND COUNT, ADJUST LOCATION +/- 10' AT NO ADDITIONAL COST. D. FIRE SEAL ALL RATED PENETRATIONS. 	agency
E. CONTRACTOR SHALL BE RESPONSIBLE FOR RETURNING ANY SURFACE DISTURBED BY CONSTRUCTION TO THE CONDITION AND FINISH OF THE ADJACENT SURFACES.	
F. CONDUIT ROUTING AND EQUIPMENT PLACEMENT SHOWN IS DIAGRAMMATIC. VERIFY EQUIPMENT PLACEMENT AND CONDUIT ROUTING BASED ON APPROVED EQUIPMENT AND SITE CONDITIONS PRIOR TO COMMENCING WORK. MAKE NECESSARY ADJUSTMENTS TO LAYOUT.	
G. MAINTAIN FIRE RATING OF ALL PENETRATIONS USING UL LISTED FIRE RATED CAULKING AND ASSEMBLIES, WHEN TRANSITIONING BETWEEN WALLS, FLOORS AND FIRE RATED AREAS.	
H. ALL PENETRATIONS THROUGH CONCRETE STRUCTURES SHALL BE CORE DRILLED, SCAN PENETRATION LOCATIONS TO LOCATE EMBEDDED STRUCTURES PRIOR TO CORE DRILLING.	SALASO'BRIEN
 MAINTAIN ALL CODE REQUIRED CLEARANCES AROUND EQUIPMENT. J. FINAL TERMINATIONS OF CONDUCTORS TO ELECTRICAL EQUIPMENT AND DEVICES SHALL BE TORQUE WRENCH TIGHTENED TO THE MANUFACTURER'S RECOMMENDED SPECIFICATION, NO EXCEPTION. PROVIDE NEUTRAL TEST AND PROOF OF TORQUE DURING FINAL INSPECTION FOR ALL UNITS. 	expect a difference 305 South 11th Street San Jose, California 95112-2218 877.725.2755 877.925.1477 (f) WWW.SALASOBRIEN.COM
K. PROVIDE FENCING AND WAY FINDING SIGNAGE AS REQUIRED.	National Strength. Local Action.
	PROFESS/ONAL BUT HE FRY GOGAL HE No. ENBORA OF CALIFORNIA Stamp
REFERENCE SHEET NOTES	CHABOT COLLEGE
 DEMO: 1. DISCONNECT AND REMOVE EXISTING CONDUITS AND WIRES BACK TO SOURCE. CAP AND STUB UNDERGROUND CONDUITS IN PLACE. RETURN CONDUCTORS BACK TO DISTRICT. 2. REMOVE EXISTING BIKE RACK TO BE REUSED FOR NEW WORK PLAN. 	CHABOT-LAS POSITAS COMMUNITY COLLEGE DISTRICT
NEW:	25555 HESPERIAN BOULEVARD HAYWARD, CALIFORNIA 94545
 RECONNECT FEEDER CONDUITS AND CONDUCTORS TO EXISTING PULLBOX TO CONTINUE FEED TO PANEL 'PH18'. UNDERGROUND CONDUITS. ABOVE GRADE CONDUITS (84" MIN. CLEAR HEIGHT). SECURE CONDUITS TO CEILING / WALLS, FIRST 2 FT AND EVERY 4 FT AFTER. PROVIDE TACTILE ROOM ID SIGNAGE PER CAMPUS STANDARD. 	UPDATE TO: BUILDING 1800 ELECTRICAL RE-FEED DSA #01-120880
14. RE-INSTALL EXISTING BIKE RACKS IN FRONT OF THE CABINET TO FACILITATE CONSTRUCTION.	ISSUE MARK DATE DESCRIPTION
	12/16/22 50%CD 03/24/23 DSA SUBMITTAL 05/26/23 DSA BACKCHECK
	SOBE PROJECT NO: 2204789 DATE: 12/02/22 DRAWN BY: ML CHECKED BY: JG APPROVED BY: SHEET TITLE
	ELECTRICAL PARTIAL FLOOR PLAN SCALE: AS NOTED THIS DRAWING IS 24" x 36" AT FULL SIZE
	THIS DRAWING IS 24" x 36" AT FULL SIZE E-4.1 SHEET OF x





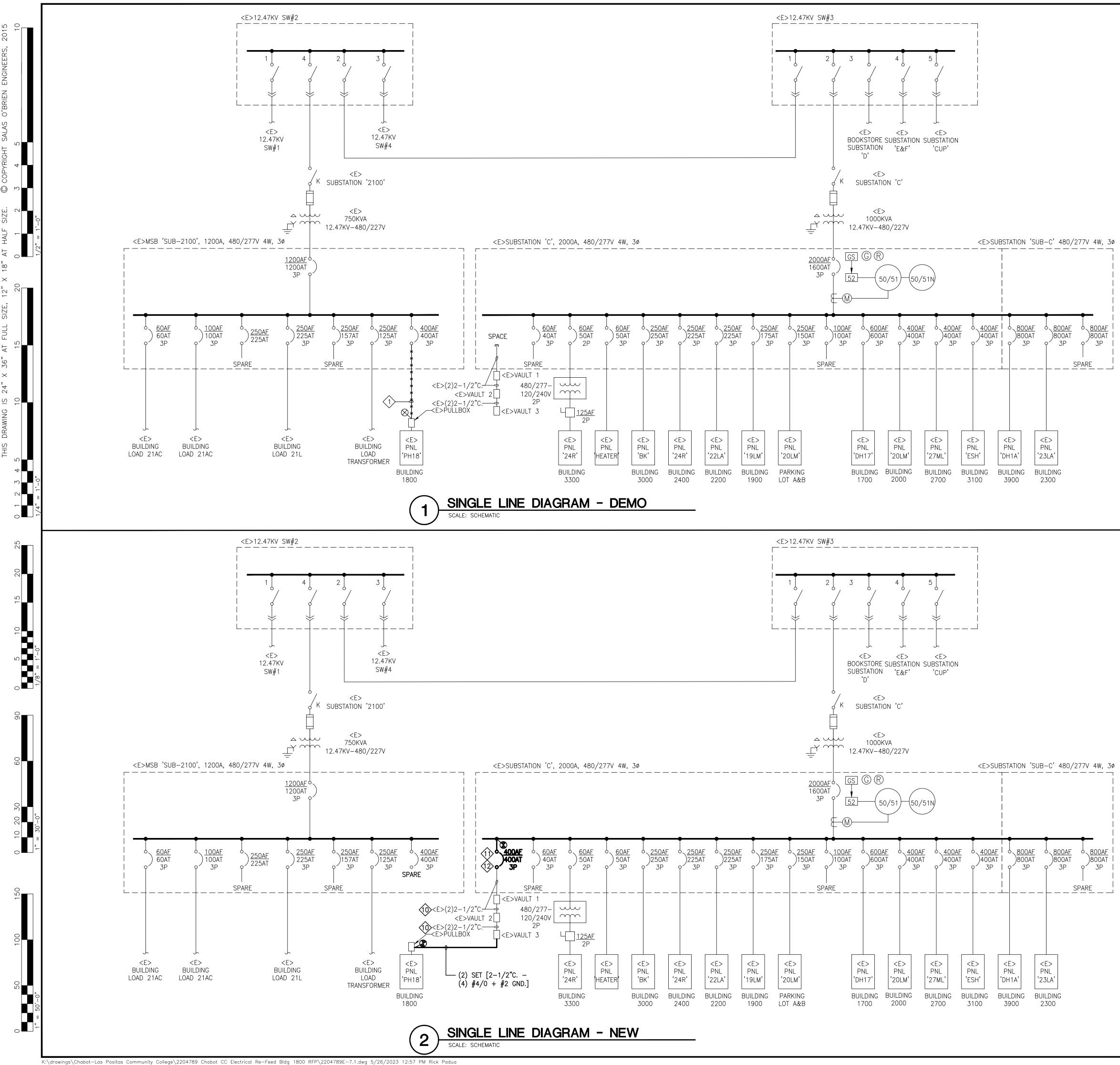


	POST-INSTALLED ANCHORS or DOWELS	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
	EXPANSION ANCHORS: 1. EXPANSION ANCHORS SHALL BE WEDGE TYPE ANCHORS ONLY AND SHALL HAVE ICC-ES APPROVAL, INCLUDING APPROVAL FOR RESISTANCE TO SEISMIC AND WIND LOADS, PASSING ICC-ES CRITERIA AC193 (CONCRETE). USE ONE OF THE FOLLOWING ICC-ES APPROVED	APP: 01-120880 INC: REVIEWED FOR SS I FLS ACS
	SYSTEMS: CONCRETE: A) HILTI KWIK-BOLT TZ (ESR 1917), TZ-2 (ESR-4266) B) SIMPSON STRONG-BOLT 2 ANCHORS (ESR-3037).	DATE: <u>6/6/2023</u> agency
	 C) ITW RED HEAD TRUBOLT + WEDGE ANCHORS (ESR-2427), D) POWERS POWER-STUD+ SD2 ANCHORS (ESR-2502) OTHER ANCHORS MAY BE USED ONLY WHEN ICC-ES REPORT FOR SUCH IS SUBMITTED TO AND APPROVED BY ENGINEER. 	
	2. TEST 100% OF ANCHORS EXCEPT AS NOTED. TEST 10% OF SOLE PLATE ANCHOR BOLTS (EXCEPT HOLDOWNS) AND 50% OR ALTERNATE ANCHORS FOR EQUIPMENT ANCHORAGE AND IN NON-STRUCTURAL APPLICATIONS. PULL-TEST ANCHORS IN TENSION WITH CALIBRATED HYDRAULIC RAM TO VALUES SPECIFIED BELOW.	
	3. INSTALL ONLY WHERE SPECIFIED ON DRAWINGS OR AS DIRECTED BY ENGINEER. DO NOT USE EXPANSION ANCHORS IN LIEU OF CAST-IN-PLACE ANCHOR BOLTS WITHOUT APPROVAL OF ENGINEER.	
	4. INSTALL PER MANUFACTURER'S INSTRUCTIONS ONLY INTO CURED CONCRETE OF MIN. 28 DAY AGE.	
	5. ANCHORS SHALL HAVE EMBEDMENT NOT LESS THAN EIGHT (8) ANCHOR DIAMETERS, OR AS OTHERWISE SPECIFIED IN DETAILS. TORQUE ANCHORS DURING INSTALLATION TO THE VALUES SPECIFIED IN MANUFACTURER'S ICC-ES REPORT. PULL-TEST LOAD VALUES SPECIFIED BELOW ARE BASED ON TWO (2) TIMES THE MAXIMUN ALLOWABLE TENSION LOADS AS	SALASO'BRIEN expect a difference
	PROVIDED IN THE ICC-ES REPORT FOR HILTI KWIK-BOLT TZ (ESR-1917) IN CONCRETE, AS PER DSA IR 19-1. ANY PROPOSED SUBSTITUTION OF MANUFACTURER SHALL BE SUBMITTED IN WRITING TO STRUCTURAL ENGINEER FOR REVIEW PRIOR TO INSTALLATION TO DETERMINE REQUIRED TEST LOADS.	305 South 11th Street San Jose, California 95112-2218
	ANCHOR MINIMUM (8¢) MASONRY TEST CONCRETE TEST DIA. EMBEDMENT (IN.) LOAD (LBS.) LOAD (LBS.) 3/8" 3 2270 1252	877.725.2755 877.925.1477 (f) <u>WWW.SALASOBRIEN.COM</u>
	5/6 5 2270 1232 1/2" 4 4840 1448 5/8" 5 5670 1988 3/4" 6 8550 2632 6. PRIOR TO DRILLING HOLES FOR ANY EXPANSION ANCHORS INTO NEW OR EXISTING	National Strength. Local Action.
< PLAN	CONCRETE, ALL REINFORCING BARS IN AREA OF NEW ANCHORAGE HOLES SHALL BE LOCATED WITH PACHOMETER OR OTHER SUITABLE DEVICE AND CLEARLY MARKED IN THE FIELD. NEW EXPANSION ANCHORS SHALL BE INSTALLED NOT LESS THAN 1" CLEAR FROM REINFORCING. WHERE REINFORCING BARD CANNOT BE LOCATED, ARE SHALL BE TAKEN WHILE DRILLING	
	HOLES SO THAT REINFORCING BARS ARE NOT CUT OR DAMAGED AND HOLES SHALL BE REPAIRED & RELOCATED AS REQUIRES. RECOMMEND USING DRILLS WITH GROUND FAULT INTERRUPTERS (GFI)	No. E18084
	CHEMICAL ADHESVE ANCHORS: 1. ALL THREADED RODS AND REBAR DOWELS INSTALLED IN HARDENED CONCRETE WITH "EPOXY" OR "ADHESIVE" SHALL BE A TWO-PART NOZZLE-MIXED ICC-ES APPROVED EPOXY	OF CALIFORNIA
	SYSTEM, PASSING ICC-ES CRITERIA AC308 (CONCRETE). USE ONE OF THE FOLLOWING ICC-ES APPROVED SYSTEMS: CONCRETE: A) HILTI "HIT-RE" SYSTEM WITH 500-SD ADHESIVE (ESR-2322),	stamp
	 B) SIMPSON "SET-XP EPOXY ADHESIVE ANCHOR" SYSTEM (ESR-2508). C) POWERS "PE1000"+ ADHESIVE ANCHOR SYSTEM (ESR-2583) OTHER ANCHORS MAY BE USED ONLY WHEN ICC-ES REPORT FOR SUCH IS SUBMITTED TO AND APPROVED BY ENGINEER. 	CHABOT COLLEGE CHABOT-LAS
	2. "ADHESIVE" ANCHORS SHALL BE INSTALLED ONLY WHERE SPECIFIED ON DRAWINGS, AND SHALL NOT BE USED IN LIEU OF CAST-IN-PLACE ANCHOR BOLTS WITHOUT APPROVAL	POSITAS COMMUNITY COLLEGE DISTRICT
	 ANCHORS SHALL BE INSTALLED ONLY IN CURED CONCRETE OF 28 DAY AGE OR MORE. HOLES SHALL BE DRILLED 1/8" TO 1/4" LARGER IN DIAMETER THAN ROD OR BAR OUTER DIAMETER, AS SPECIFIED IN ICC-ES REPORT. 	25555 HESPERIAN BOULEVARD
	5. BARS/RODS SHALL HAVE EMBEDMENT NOT LESS THAN TEN (10) NOMINAL BAR/ROD DIAMETERS, OR AS OTHERWISE SPECIFIED IN DETAILS.	HAYWARD, CALIFORNIA 94545
IAMFER, TYP. I	6. INSTALL USING MANUFACTURER'S EQUIPMENT, PER MANUFACTURER'S RECOMMENDATIONS. INSTALLER SHALL HAVE ON SITE A COPY OF MANUFACTURER'S INSTALLATION INSTRUCTIONS.	1800 ELECTRICAL
4" – 6" AS REQ'D.	7. PRIOR TO DRILLING HOLES FOR ANY ADHESIVE ANCHORS INTO NEW OR EXISTING CONCRETE, ALL REINFORCING BARS IN AREA OF NEW ANCHORAGE HOLES SHALL BE LOCATED WITH PACHOMETER OR OTHER SUITABLE DEVICE AND CLEARLY MARKED IN THE FIELD. NEW ADHESIVE ANCHORS SHALL BE INSTALLED NOT LESS THAN 1" CLEAR FROM REINFORCING.	RE-FEED DSA #01-120880
	WHERE REINFORCING BARD CANNOT BE LOCATED, ARE SHALL BE TAKEN WHILE DRILLING HOLES SO THAT REINFORCING BARS ARE NOT CUT OR DAMAGED AND HOLES SHALL BE REPAIRED & RELOCATED AS REQUIRES. RECOMMEND USING DRILLS WITH GROUND FAULT INTERRUPTERS (GFI)	ISSUE MARK DATE DESCRIPTION
	8. ALL RODS AND BARS INSTALLED WITH EPOXY SHALL HAVE CONTINUOUS SPECIAL INSPECTION. TESTING REQUIREMENTS WILL BE ON A CASE-BY-CASE BASIS, SUBJECT TO APPROVAL BY DSA. WHERE TESTING REQUIRED, PULL-TEST ANCHORS IN TENSION WITH CALIBRATED HYDRAULIC RAM TO VALUES SPECIFIED FOR EXPANSION ANCHORS ABOVE.	12/16/22 50%CD 03/24/23 DSA_SUBMITTAL 05/26/23 DSA_BACKCHECK
DRILLED	CONCRETE	
TYP. ELING	1. ALL CONCRETE WORK SHALL CONFORM TO 2022 ACI STANDARD 318 AND ASTM C94, SPECIFICATION FOR READY-MIX CONCRETE. CEMENT SHALL BE PORTLAND CEMENT TYPE II. CALCIUM CHLORIDE SHALL NOT BE USED. CONCRETE MIX DESIGNS SHALL BE SUBMITTED TO AND APPROVED BY TESTING AGENCY PRIOR TO ORDERING CONCRETE.	
	 CONCRETE MIX PROPERTIES SHALL BE AS FOLLOWS: A) SLABS-ON-GRADE: 28-DAY COMP. STRENGTH: 3000 PSI MAX. AGGREGATE SIZE: 3/4" 	
	MAX. SLUMP: 4" DENSITY: 150 PCF	SOBE 2204789 DATE: 12/02/22
	 B) NON-STRUCTURAL CONCRETE WALKS ON GRADE: 28-DAY COMP. STRENGTH: 2500 PSI MAX. AGGREGATE SIZE: 3/4" MAX. SLUMP: 5" DENSITY: 150 PCF 	DRAWN BY: ML CHECKED BY: JG APPROVED BY: JG
	3. STEEL REINFORCING BARS SHALL CONFORM TO ASTM A615-40 FOR $\#4$ AND SMALLER BARS, ASTM A615-60 FOR $\#5$ AND LARGER BARS. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.	SHEET TITLE
	4. REINFORCING STEEL SHALL BE CONTINUOUS WHERE POSSIBLE. SPLICE WITH CONTACT LAP-SPLICES. STAGGER ALL SPLICES. SPLICE LENGTHS SHALL BE 57 BAR-DIAMETERS MINIMUM. WELDED WIRE FABRIC SHALL BE LAPPED TWO (2) FULL SQUARES, BUT NOT LESS THAN 12".	ELECTRICAL DETAILS
	 5. EXTEND HORIZONTAL BARS IN FOUNDATIONS INTO INTERSECTING FOUNDATIONS WITH BEND AND 30 BAR DIAMETER EXTENSION. BUT NOT LESS THAN 24" EXTENSION. 6. WELDING OF REINFORCING SHALL NOT BE ALLOWED. 	
	7. MAINTAIN THE FOLLOWING MINIMUM CONCRETE COVER FOR REBAR: WHERE CONC. IS PLACED AGAINST EARTH = 3 "	SCALE:AS NOTEDTHIS DRAWING IS 24" x 36" AT FULL SIZE
<u>G</u>	WHERE CONCRETE IS FORMED AND EXPOSED TO EARTH OR WEATHER = 2" WHERE CONCRETE IS NOT EXPOSED TO EARTH OR WEATHER = $1-1/2$ " SLABS ON GRADE = $3/4$ "	E-5.3
		SHEET OF x



LOAD CALCULATION	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
ON 'C' 2000A, 277/480V, 3P, 4W	DIV. OF THE STATE ARCHITECT APP: 01-120880 INC: REVIEWED FOR
nt data + 125% Per NEC) = 496 KVA	SS ☑ FLS ☑ ACS □ DATE: <u>6/6/2023</u>
Sub-Total Existing Load = 495.7 KVA	agency
, 3P, 4W (Measurement + 125 Per NEC) = 79 KVA Sub-Total New Load = 78.6 KVA = 574.3 KVA = 1,596 A = 2,000 A	
	SALASO'BRIEN
	expect a difference
	305 South 11th Street San Jose, California 95112-2218 877.725.2755 877.925.1477 (f)
OLTAGE DROP CALCULATION	WWW.SALASOBRIEN.COM National Strength. Local Action.
VOLTAGE DROP CALCULATIONS - 3-PHASE SOURCE PF: 0.85	consultant
Conductor SizeAmps per (Feet)Impedance (at 0.85 PF) per 1000 ftVoltageVoltage Voltage% Voltage 0 rop 4800% Voltage 0 rop 2707% Voltage 0 rop 2080% Voltage 0 rop 1200% Total % VO Prom Source 180 7500.0378.5714.9551.79%ImpediateImpediateImpediateImpediate	No. E18084
	CHABOT COLLEGE CHABOT-LAS POSITAS COMMUNITY COLLEGE DISTRICT 25555 HESPERIAN BOULEVARD HAYWARD, CALIFORNIA 94545 UPDATE TO: BUILDING 1800 ELECTRICAL RE-FEED DSA #01-120880
	ISSUE MARK DATE DESCRIPTION 12/16/22 50%CD 03/24/23 DSA 05/26/23 DSA 05/26/23 DSA BACKCHECK Image: Sobe project no: 2204789 DATE: 12/02/22
	DRAWN BY: ML CHECKED BY: JG APPROVED BY: SHEET TITLE ELECTRICAL SCHEDULES SCALE: AS NOTED THIS DRAWING IS 24" x 36" AT FULL SIZE E-6.1 SHEET OF x

LOAD CALCULATION	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
EXISTING SUBSTATION 'C' 2000A, 277/480V, 3P, 4W	DIV. OF THE STATE ARCHITECT APP: 01-120880 INC: REVIEWED FOR
A. LOADS (SUBSTATION 'C') EXISTING SUBSTATION 'C' (Measurement data + 125% Per NEC)=496KVA	SS I FLS ACS DATE: 6/6/2023
Sub-Total Existing Load = 495.7 KVA B. LOADS (BUILDING 1800)	agency
EXISTING PANEL 'PH18' 400A, 277/480V, 3P, 4W (Measurement + 125 Per NEC) = 79 KVA Sub-Total New Load = 78.6 KVA Total Load (A+B) = 574.3 KVA	
Total Service Amps (A&B)=1,596 A2000A 100% Main Breaker Rating=2,000 A	
	SALASO'BRIEN
	expect a difference
	305 South 11th Street San Jose, California 95112-2218 877.725.2755 877.925.1477 (f)
	WWW.SALASOBRIEN.COM National Strength.
VOLTAGE DROP CALCULATION	Local Action.
VOLTAGE DROP CALCULATIONS - 3-PHASE SOURCE PF: 0.85 Conductor Impedance (at Impedance (at	
Size Amps per Length 0.85 PF) per Voltage % Voltage <t< td=""><td>n Source</td></t<>	n Source
	1.79%
	stamp
	CHABOT COLLEGE
	CHABOT-LAS
	POSITAS COMMUNITY COLLEGE DISTRICT
	25555 HESPERIAN BOULEVARD HAYWARD, CALIFORNIA 94545
	UPDATE TO: BUILDING
	1800 ELECTRICAL
	RE-FEED DSA #01-120880
	ISSUE MARK DATE DESCRIPTION
	12/16/22 50%CD 03/24/23 DSA SUBMITTAL
	05/26/23 DSA BACKCHECK
	SOBE PROJECT NO: 2204789
	DATE: 12/02/22 DRAWN BY: ML CHECKED BY: JG
	APPROVED BY:
	SHEET TITLE
	ELECTRICAL SCHEDULES
	SCALE: AS NOTED THIS DRAWING IS 24" x 36" AT FULL SIZE
	E-6.1
	SHEET OF X



GENERAL SHEET NOTES	
 A. CONDUIT ROUTING AND EQUIPMENT PLACEMENT SHOWN IS DIAGRAMMATIC. VERIFY EQUIPMENT PLACEMENT AND CONDUIT ROUTING BASED ON APPROVED EQUIPMENT AND SITE CONDITIONS PRIOR TO COMMENCING WORK. MAKE NECESSARY ADJUSTMENTS TO LAYOUT. B. MAINTAIN FIRE RATING OF ALL PENETRATIONS USING UL LISTED FIRE RATED CAULKING AND ASSEMBLIES, WHEN TRANSITIONING BETWEEN WALLS, FLOORS AND EVEN DEVEN. 	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 01-120880 INC: REVIEWED FOR SS ☑ FLS ☑ ACS □ DATE: <u>6/6/2023</u>
 FIRE RATED AREAS. C. ALL PENETRATIONS THROUGH CONCRETE STRUCTURES SHALL BE CORE DRILLED, SCAN PENETRATION LOCATIONS TO LOCATE EMBEDDED STRUCTURES PRIOR TO CORE DRILLING. 	agency
 D. MAINTAIN ALL CODE REQUIRED CLEARANCES AROUND EQUIPMENT. E. FINAL TERMINATIONS OF CONDUCTORS TO ELECTRICAL EQUIPMENT AND DEVICES SHALL BE TORQUE WRENCH TIGHTENED TO THE MANUFACTURER'S RECOMMENDED SPECIFICATION, NO EXCEPTION. PROVIDE NEUTRAL TEST AND PROOF OF TORQUE DURING FINAL INSPECTION FOR ALL UNITS. F. AS REQUIRED ALL OVERSIZED FEEDERS THAT WERE ADJUSTED IN SIZE TO COMPENSATE FOR VOLTAGE DROP SHALL BE PROVIDED WITH ADAPTER LUGS OR SPLICE BOX. ADAPTER LUGS SHALL BE PROVIDED IF SIZE IS AVAILABLE. OTHERWISE PROVIDE CABLE SPLICES IN THE SPLICE BOX TO REDUCE CABLES TO THE MAXIMUM SIZE THAT THE BREAKER LUGS CAN ACCOMMODATE. 	
	SALASO'BRIEN expect a difference 305 South 11th Street San Jose, California 95112-2218 877.725.2755 877.925.1477 (f) WWW.SALASOBRIEN.COM National Strength. Local Action.
REFERENCE SHEET NOTES	consultant
DEMO: 1. DISCONNECT AND REMOVE EXISTING CONDUITS AND WIRES BACK TO SOURCE. CAP AND STUB UNDERGROUND CONDUITS IN PLACE. RETURN CONDUCTORS BACK TO DISTRICT. TURN OFF AND LABEL CIRCUIT BREAKER AS SPARE. NEW:	ROFESS/ONLY WALE FRY GOOT HE No. ENBORA WALE OF CALIFORNIA Stamp
 ROUTE (4)#4/0 + #2 GND. INSIDE EACH OF EXISTING CONDUIT. PROVIDE NEW CIRCUIT BREAKER IN EXISTING SPACE AS SHOWN. PROVIDE ALL MOUNTING HARDWARE AS REQUIRED TO ALLOW INSTALLATION OF NEW CIRCUIT BREAKER. MATCH AIC RATTING OF PANELBOARD. REMOVE EXISTING CIRCUIT BREAKER COVER PLATE, PROVIDE NEW COVER PLATE AS REQUIRED TO ALLOW INSTALLATION OF NEW CIRCUIT BREAKER. PROVIDE ALL MOUNTING HARDWARE FOR A SUITABLE INSTALLATION. 	CHABOT COLLEGE CHABOT-LAS POSITAS COMMUNITY COLLEGE DISTRICT
	25555 HESPERIAN BOULEVARD HAYWARD, CALIFORNIA 94545
	UPDATE TO: BUILDING 1800 ELECTRICAL RE-FEED DSA #01-120880
	ISSUE MARK DATE DESCRIPTION 12/16/22 50%CD 03/24/23 DSA 05/26/23 DSA 05/26/23
	SOBE PROJECT NO: 2204789 DATE: 12/02/22 DRAWN BY: ML CHECKED BY: JG
	APPROVED BY: SHEET TITLE ELECTRICAL SINGLE LINE DIAGRAM
	SCALE: AS NOTED THIS DRAWING IS 24" × 36" AT FULL SIZE E-7.1
	SHEET OF X