

0 1/4" 1/2" 1" 2" 3" 4" 5" 6" 7" 8" 9" 10" 11" 12" IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY



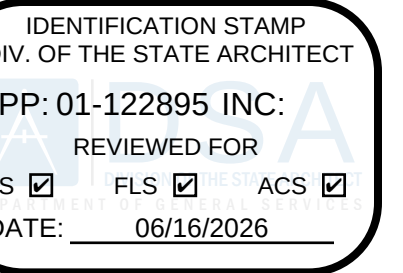
CHABOT-LAS POSITAS COMMUNITY COLLEGE DISTRICT

LAS POSITAS COLLEGE

3000 CAMPUS HILL DR
LIVERMORE, CA 94551

PATHWAYS SUPPORT CENTER RENOVATION

DSA BACKCHECK JUNE 02, 2026

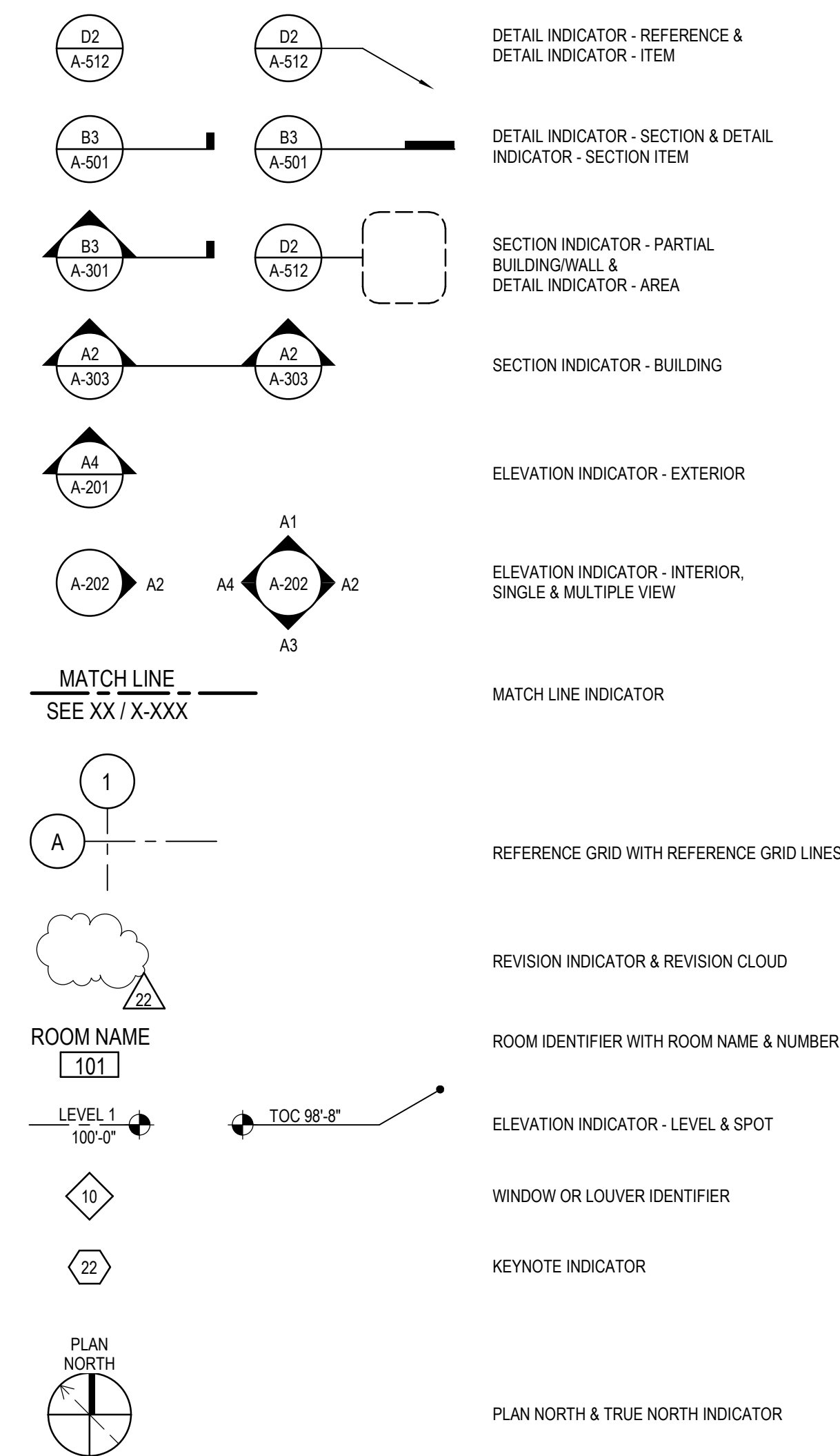


LIONAKIS

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www.lionakis.com

CONSULTANT

ARCHITECTURAL SYMBOLS LEGEND



LIST OF ARCHITECTURAL ABBREVIATIONS

SEE UNITED STATES NATIONAL CAD STANDARD FOR ANY ABBREVIATIONS NOT LISTED BELOW.	DHM DETENTION HOLLOW METAL	MATL MATERIAL	STD STANDARD
& DIA DIAMETER	MAX MAXIMUM	STL STEEL	STOR STORAGE
@ (E) MECH MECHANICAL	MEMB MEMBRANE	STOR STRUCTURAL	SUSP CLG SUSPENDED CEILING
AND MANUFACTURER	MFR MANHOLE	SV SHEET VINYL	SYMM SYMMETRICAL
AT MIN MINIMUM	MISC MISCELLANEOUS	SYS SYSTEM	T TREAD
EXISTING FOOT, FEET (INCHES)	MO MASONRY OPENING	T TAG TONGUE & GROOVE	T&G TYPICAL NOTES
# NUMBER	MR MOISTURE RESISTANT	TEL TELEPHONE	THK THICKNESS
ALUM ALUMINUM	MTD MOUNTED	TMH TOP OF MANHOLE	TMFP TEMPERED
ARCH ARCHITECTURAL	MTL METAL	TO TOP OF	TOC TOP OF CURB
A/C UNIT AIR CONDITIONING UNIT	MULL MULLION	TOF TOP OF FRAME	TOJ TOP OF JOIST
AE ARCHITECT / ENGINEER	NIC NOT IN CONTRACT	TOF TOP OF MASONRY	TOP TOP OF PARAPET
AB ANCHOR BOLT	NO NUMBER	TOF TOP OF PARAPET	TOPO TOPOGRAPHY
AC ASPHALTIC CONCRETE	NOM NOMINAL	TOF TOP OF STEEL	TOW TOP OF WALL
ACS DR ACCESSIBLE	NTS NOT TO SCALE	TV TELEVISION	UNO UNLESS NOTED OTHERWISE
ACS PNL ACCESS PANEL	O OVER	UC UNDER COUNTER/CABINET	UNO UNLESS NOTED OTHERWISE
ACST ACOUSTIC	OC ON CENTER	UNO UNLESS NOTED OTHERWISE	VCT VINYL COMPOSITION TILE
AD AREA DRAIN	OD OUTSIDE DIAMETER	UNO UNLESS NOTED OTHERWISE	VERT VERTICAL
ADC AUTOMATIC DOOR CLOSER	OFIC OWNER FURNISHED / CONTRACTOR INSTALLED	UNO UNLESS NOTED OTHERWISE	VEST VESTIBULE
ADD AUTOMATIC DOOR OPERATOR	OFF OFFICE	UNO UNLESS NOTED OTHERWISE	VIF VERIFY IN FIELD
ADOL ADDITIONAL	OG OBSOURE GLASS	UNO UNLESS NOTED OTHERWISE	VWC VINYL WALL COVERING
ADJ SHV ADJUSTABLE SHELVING	OPH OPPOSITE HAND	UNO UNLESS NOTED OTHERWISE	VWF VINYL WALL FABRIC
AFF ABOVE FINISHED FLOOR	OPNG OPENING	UNO UNLESS NOTED OTHERWISE	W WITH
AFO ABOVE FINISHED GRADE	OPP OPPOSITE	UNO UNLESS NOTED OTHERWISE	W/O WITHOUT
AGGR AGGREGATE	OPNG POWER ACTUATED FASTENER	UNO UNLESS NOTED OTHERWISE	WC WATER CLOSET
AHU AIR HANDLING UNIT	PAF PROPERTY LINE, PLATE	UNO UNLESS NOTED OTHERWISE	WH WATER HEATER
ASSY ASSEMBLY	PLAM PLASTIC LAMINATE	UNO UNLESS NOTED OTHERWISE	WO WHERE OCCURS
BD BOARD	PLB PLUMB	UNO UNLESS NOTED OTHERWISE	WP WORKING POINT
BKG BACKLOG	PLNG PLUMBING	UNO UNLESS NOTED OTHERWISE	WPM WATERPROOF MEMBRANE
BLDG BUILDING	PLYWD PLYWOOD	UNO UNLESS NOTED OTHERWISE	WSCT WAINSCOT
BM BEAM	PNL PANEL	UNO UNLESS NOTED OTHERWISE	WT WEIGHT
BOT BOTTOM	PROP PROPERTY	UNO UNLESS NOTED OTHERWISE	WTR WATER
BETWN BETWEEN	PSF POUNDS PER SQUARE FOOT	UNO UNLESS NOTED OTHERWISE	WWR WELDED WIRE REINFORCEMENT
BUR BUILT-UP ROOFING	PSI POUNDS PER SQUARE INCH	UNO UNLESS NOTED OTHERWISE	
BW BOTH WAYS	PT PAINT, PAINT	UNO UNLESS NOTED OTHERWISE	
C CHANNEL	PTN PARTITION	UNO UNLESS NOTED OTHERWISE	
CAB CABINET	PV PHOTOVOLTAIC	UNO UNLESS NOTED OTHERWISE	
CB CATCH BASIN	QT QUARRY TILE	UNO UNLESS NOTED OTHERWISE	
CBC CALIFORNIA BUILDING CODE	R RADIUS, RISER	UNO UNLESS NOTED OTHERWISE	
CEM CEMENT	RD ROOF DRAIN	UNO UNLESS NOTED OTHERWISE	
CEM PLAS CEM PLASTER	REF REINFORCING STEEL BAR	UNO UNLESS NOTED OTHERWISE	
CFLG COUNTERFLASHING	REF REFERENCE	UNO UNLESS NOTED OTHERWISE	
CFMF COLD-FORMED METAL FRAMING	REF REFRIGERATOR	UNO UNLESS NOTED OTHERWISE	
CG CORNER GUARD	RENF REINFORCE / REINFORCING	UNO UNLESS NOTED OTHERWISE	
CI CAST IRON	RESIL RESILIENT	UNO UNLESS NOTED OTHERWISE	
CL CONSTRUCTION JOINT / CONTROL JOINT	RJ ROOM	UNO UNLESS NOTED OTHERWISE	
CLG CEILING	RO ROUGH OPENING	UNO UNLESS NOTED OTHERWISE	
CLR CLEAR	RWD REDWOOD	UNO UNLESS NOTED OTHERWISE	
CMU CONCRETE MASONRY UNIT	RWL RAIN WATER LEADER	UNO UNLESS NOTED OTHERWISE	
CNTR COUNTER	SAD SEE ARCHITECTURAL DRAWINGS	UNO UNLESS NOTED OTHERWISE	
CO CLEANOUT	SATC SUSPENDED ACOUSTICAL TILE CEILING	UNO UNLESS NOTED OTHERWISE	
COLUMN COLUMN	SB SPLASH BLOCK	UNO UNLESS NOTED OTHERWISE	
CONC CONCRETE	SC SOLID CORE	UNO UNLESS NOTED OTHERWISE	
CONSTR CONSTRUCTION	SCHED SCHEDULE	UNO UNLESS NOTED OTHERWISE	
CONT CONTINUE / CONTINUOUS	SD STORM DRAIN	UNO UNLESS NOTED OTHERWISE	
COTG CLEANOUT TO GRADE	SDST SELF DRIVING, SELF TAPPING SHEET	UNO UNLESS NOTED OTHERWISE	
CP CONTROL PANEL	SHT SHEATHING	UNO UNLESS NOTED OTHERWISE	
CPT CARPET	SHTG SHEATHING	UNO UNLESS NOTED OTHERWISE	
CRS COLD ROLLED STEEL	SHV SHELVING	UNO UNLESS NOTED OTHERWISE	
CSK COUNTER SUNK	SIM SIMILAR	UNO UNLESS NOTED OTHERWISE	
CSWK CASEWORK	SLNT SEALANT	UNO UNLESS NOTED OTHERWISE	
CT CERAMIC TILE	SM SHEET METAL	UNO UNLESS NOTED OTHERWISE	
CTR CENTER	SPEC SPECIFICATION	UNO UNLESS NOTED OTHERWISE	
DBL DOUBLE	SG SQUARE	UNO UNLESS NOTED OTHERWISE	
DEPT DEPARTMENT	SS SANITARY SEWER, SERVICE SINK	UNO UNLESS NOTED OTHERWISE	
DET DETAIL	SS STAINLESS STEEL	UNO UNLESS NOTED OTHERWISE	
DF DRINKING FOUNTAIN		UNO UNLESS NOTED OTHERWISE	

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GA512	ACCESSIBILITY SIGNAGE STANDARDS
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TOTAL SHEET COUNT:	56

PROJECT DIRECTORY

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SCOPE OF PROJECT

THIS PROJECT CONSISTS OF ALTERATIONS WITHIN THE FIRST FLOOR OF EXISTING BUILDING 1600 TO ACCOMMODATE THE PATHWAYS SUPPORT CENTER ADJACENT TO THE EXISTING CAREER CENTER. ALTERATIONS INCLUDE REMOVAL AND REPLACEMENT OF EXISTING NON-STRUCTURAL PARTITIONS, CEILING AND LIGHT FIXTURES FOR PROPOSED ROOM CONFIGURATION. PROPOSED SCOPE INCLUDES NEW NON-STRUCTURAL PARTITIONS, CEILING, LIGHT FIXTURES, INTERIOR STOREFRONT, VERTICAL STACKING DOOR AND FINISHES. MEP ALTERATIONS INCLUDING DUCT WORK, CONDUIT E-ROUTING, SUSPENDED EQUIPMENT CONNECTION TO UNDERSIDE OF CONCRETE DECK AND ALTERATIONS TO EXISTING AFFSS AND FIRE ALARM SYSTEM.

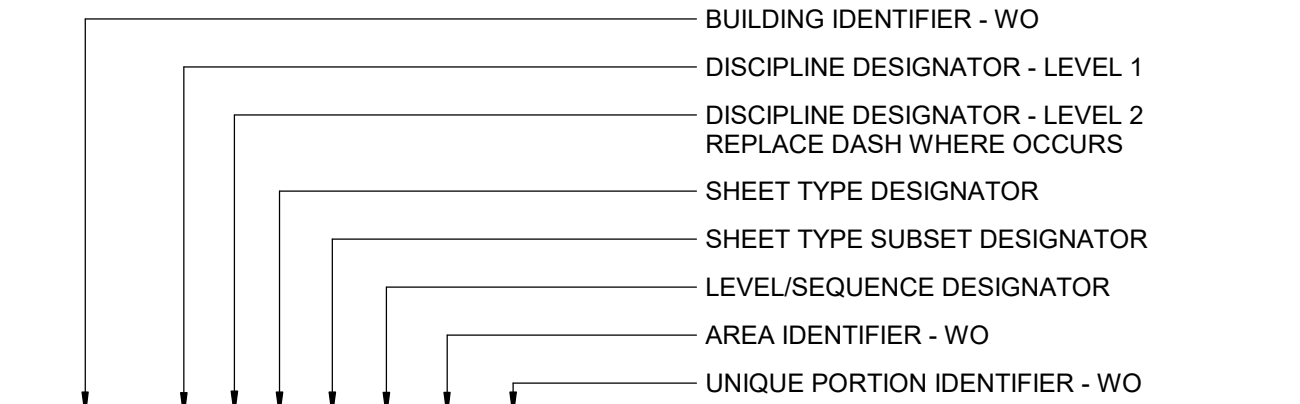
ALTERNATES

NONE.

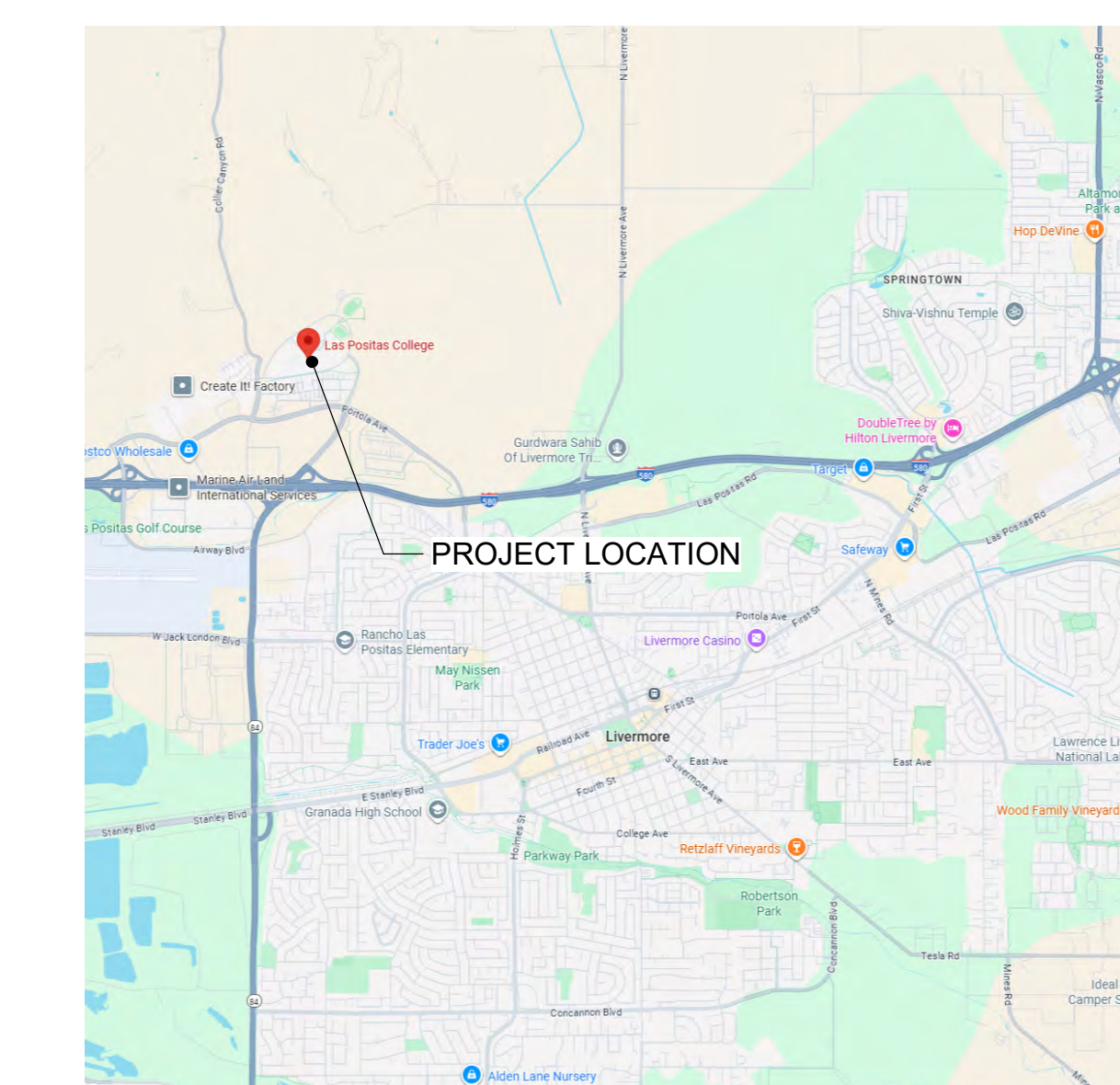
SHEET IDENTIFICATION LEGEND

DISCIPLINE DESIGNATORS - LEVEL 1	SHEET TYPE DESIGNATORS
G GENERAL	0 - GENERAL
A ARCHITECTURAL	1 - PLANS
E ELECTRICAL	2 - ELEVATIONS
	3 - SECTIONS
NOTE: * INDICATES SHEETS OR DRAWINGS PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS, NO THE ARCHITECT IN GENERAL RESPONSIBLE CHARGE	4 - LARGE SCALE VIEWS
	5 - DETAILS
	6 - SCHEDULES & DIAGRAMS
	7 - USER DEFINED
	8 - USER DEFINED
	9 - 3D REPRESENTATIONS

COVER SHEET



LOCATION MAP



VICINITY MAP



STATEMENT OF GENERAL CONFORMANCE

FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS (APPLICATION NO. 01-122895, FILE NO. 1422)

☒ THE DRAWINGS OR SHEETS LISTED WITH ASTERISKS ON THE COVER SHEET

☐ THIS DRAWING, PAGE OF SPECIFICATIONS/CALCULATIONS

HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:

- DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND
- COORDINATION WITH MY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

THE 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, (TITLE 24, PART 1, SECTION 4-317 [b])

SIGNATURE OF ARCHITECT: SAM WOLFGRAM, DATE: 06/11/2026

ARCHITECT IN GENERAL RESPONSIBLE CHARGE (PRINT NAME): SAM WOLFGRAM, DATE: 06/30/2027

LICENSE NUMBER: C33293, EXPIRATION DATE: 06/30/2027

PROJECT DATA

1. PROJECT LOCATED IN CLIMATE ZONE 12.

DEFERRED SUBMITTALS

NONE.

GENERAL DEMOLITION NOTES

31. FINAL CLEANING: PRIOR TO PROJECT FINAL COMPLETION, REMOVE DEBRIS AND SURFACE DUST SWEEP HARD SURFACE FLOORS CLEAN, VACUUM CARPETS, LEAVE PROJECT IN CLEAN CONDITION.
32. THESE CONSTRUCTION DOCUMENTS ARE FOR THE EXCLUSIVE USE OF THE OWNER ON THIS PROJECT. THE ARCHITECT SHALL NOT BE LIABLE FOR USE OF THE CONSTRUCTION DOCUMENTS BY ANY OTHER PARTY FOR CONSTRUCTION OF ANY OTHER PROJECT, DRAWINGS, SPECIFICATIONS, AND OTHER DOCUMENTS FURNISHED BY THE ARCHITECT ARE INSTRUMENTS OF SERVICE. THE ARCHITECT AND ANY PROFESSIONAL REPRESENTED FOR THIS PROJECT SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING COPYRIGHT AND ALL OTHER RIGHTS. THE ARCHITECT'S OBLIGATION OF CONFIDENTIALITY DOES NOT INCLUDE THE DISTRIBUTION OF THE ARCHITECT'S DOCUMENTS TO MEET OFFICIAL REGULATORY REQUIREMENTS OR FOR SIMILAR PURPOSES IN CONNECTION WITH THIS PROJECT IS NOT TO BE CONSTRUED AS PUBLICATION IN DEROGATION OF ANY RESERVED RIGHTS.
33. ADDITIONAL PRODUCTS AND/OR SYSTEMS MAY BE INDICATED IN OTHER PORTIONS OF THE CONSTRUCTION DOCUMENTS FOR THIS PROJECT BUT MAY NOT BE DESCRIBED IN THE INDICATED SPECIFICATIONS. FOR THOSE PRODUCTS AND/OR SYSTEMS, PROVIDE THE PRODUCTS AS A BASIS-OF-DESIGN, IF A SPECIFIC MODEL AND MANUFACTURER ARE NOT INDICATED, PROVIDE A PRODUCT OR SYSTEM IS FROM AN AMERICAN MANUFACTURER. ANY PRODUCT INTENDED FOR USE IN THE APPLICATION SHOWN, SUBMIT PRODUCT TO ARCHITECT AND OWNER FOR REVIEW.
34. THE CONSTRUCTION DOCUMENTS DETAIL THE WORK OF THE PROJECT, COORDINATION OF ADJACENT PRODUCTS AND/OR SYSTEMS OTHER THAN THE "BASIS-OF-DESIGN" PRODUCTS AND/OR SYSTEM(S) ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE ADDITIONAL ENGINEERING AND/OR MATERIALS IF REQUIRED FOR INSTALLATION OF PRODUCTS AND/OR SYSTEMS AND/OR MATERIALS. THE CONTRACTOR SHALL BE RESPONSIBLE TO MEET ALL MANUFACTURERS' INSTALLATION REQUIREMENTS, AND SHALL NOT ALTER THE INSTALLATION REQUIREMENTS OF ADJACENT PRODUCTS AND/OR SYSTEMS.
35. MATERIALS, PRODUCTS, AND/OR SYSTEMS SHALL BE DELIVERED, HANDLED, AND STORED PER MANUFACTURERS RECOMMENDATIONS.
36. VERIFY DIMENSIONS OF EXISTING CONDITIONS PRIOR TO ORDERING MATERIALS FOR AFFECTED WORK.
37. AT CLOSE OF PROJECT: PROVIDE OWNER WITH ALL O&M MANUALS, T.A.B. REPORTS, AND MAINTENANCE SCHEDULES. PROVIDE OWNER WITH ALL ORGANIZED TABS, PROVIDE DIGITAL CLOUDSET DOCUMENTS IF REQUIRED BY OWNER.

1. DEMOLISH EXISTING INTERIOR FINISHES NOTED TO BE REMOVED AND PREPARE SUBSTRATE FOR THE INSTALLATION OF FINISHES AS SHOWN ON THE CONSTRUCTION DRAWINGS.
2. NOT ALL DEMOLITION REQUIREMENTS ARE SHOWN ON ANY ONE SPECIFIC PAGE OR PAGES. REFER TO OTHER CONSTRUCTION DOCUMENTS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
3. PROVIDE DEMOLITION AS REQUIRED TO ACCOMMODATE THE INSTALLATION OF WORK INDICATED IN THE CONSTRUCTION DOCUMENTS.
4. DEMOLISH EXISTING FLOOR SLAB AS REQUIRED TO ACCOMMODATE THE INSTALLATION OF UNDERGROUND UTILITIES.
5. PROVIDE, ERECT, AND MAINTAIN TEMPORARY BARRIERS AND SIGNAGE, ETC. AS REQUIRED TO PROTECT THE GENERAL PUBLIC AND PREVENT ACCESS BY UNAUTHORIZED PERSONNEL. PROVIDE ACCESS TO PERSONS APPROVED BY OWNER.
6. REPAIR OR REPLACE AT NO ADDITIONAL COST TO THE OWNER BUILDING OR SITE ELEMENTS OR ADJACENT STRUCTURES THAT ARE DAMAGED OR DEMOLISHED BUT ARE NOT INDICATED TO BE DEMOLISHED. PREVENT DAMAGE TO EXISTING ITEMS THAT ARE TO REMAIN.
7. TEMPORARY FACILITIES: PROVIDE TEMPORARY BARRICADES AND OTHER PROTECTION REQUIRED TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES TO REMAIN.
8. PROVIDE PROTECTION TO ENSURE SAFE PASSAGE OF PEOPLE AROUND DEMOLITION AREA.
9. VERIFY THAT THE OWNER'S REPRESENTATIVE AND FACILITY USERS HAVE REMOVED OBJECTS OF THEIR CHOICE PRIOR TO THE COMMENCEMENT OF THIS PROJECT. VERIFY WITH THE OWNER'S REPRESENTATIVE BEFORE REMOVING ANY ITEMS LEFT IN THE DEMOLITION AREA. OWNER REPRESENTATIVE HAS THE RIGHT OF FIRST REFUSAL TO RETAIN ITEMS INDICATED TO BE DEMOLISHED. DEMOLISHED ITEMS SHALL BE DISPOSED OF PROPERLY IN ACCORDANCE WITH THE SPECIFICATIONS. PRIOR TO DEMOLITION, VERIFY WITH OWNER ITEMS TO BE SALVAGED.
10. VERIFY EXISTING CONDITIONS PRIOR TO DEMOLITION AND/OR CONSTRUCTION.
11. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY AND PRIOR TO DEMOLITION IF BUILDING ELEMENT SCHEDULED TO BE DEMOLISHED IS REQUIRED TO SUPPORT THE FINAL IN-PLACE STRUCTURE.
12. ENSURE AREAS OF WORK ARE CLEAN UPON COMPLETION OF DEMOLITION. DEBRIS REMOVED DURING DEMOLITION SHALL BE DISPOSED OF IN A SAFE AND LEGAL MANNER.
13. REMOVE ABANDONED PIPING, WIRING, EQUIPMENT, ETC. ENCOUNTERED DURING THE COURSE OF DEMOLITION BACK TO THE SCOPE OF WORK BOUNDARY UNLESS OTHERWISE NOTED.
14. HAZARDOUS MATERIALS ABATEMENT WORK SHALL BE COORDINATED BETWEEN THE CONTRACTOR AND THE OWNER. THE ARCHITECT IS NOT RESPONSIBLE FOR SPECIFYING REQUIREMENTS FOR FOS OR CONSTRUCTION OF ABATEMENT OF HAZARDOUS MATERIALS ABATEMENT WORK. THE OWNER SHALL PROVIDE SEPARATE DOCUMENTS REQUIRED FOR HAZARDOUS MATERIALS ABATEMENT WORK AND SEPARATE CONSTRUCTION OBSERVATION OF HAZARDOUS MATERIALS ABATEMENT WORK. CONTACT OWNER FOR ADDITIONAL INFORMATION.
15. VERIFY THAT UTILITIES INDICATED TO BE REMOVED FROM SERVICE HAVE BEEN DISCONNECTED AND CAPPED PRIOR TO THE START OF DEMOLITION.
16. VERIFY EXISTING CONDITIONS AND COORDINATE WITH REQUIREMENTS INDICATED ON THE DRAWINGS TO DETERMINE EXTENT OF DEMOLITION REQUIRED.
17. WHEN UNFORESEEN CONDITIONS THAT DEViate FROM THE CONSTRUCTION DOCUMENTS ARE ENCOUNTERED, PROMPTLY NOTIFY ARCHITECT OF EXTENT OF DEVIATIONS.
18. LOCATE, IDENTIFY, DISCONNECT, AND SEAL OR CAP OFF INDICATED UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS SERVING AREAS TO BE SELECTIVELY DEMOLISHED. ARRANGE TO SHUT OFF INDICATED UTILITIES WITH UTILITY COMPANIES. DISCONNECT, DEMOLISH, AND REMOVE FIRE-SUPPRESSION SYSTEMS, PLUMBING, AND HVAC SYSTEMS. COMPONENTS AND COMPONENTS INDICATED TO BE REMOVED.
19. SITE ACCESS AND TEMPORARY CONTROLS: CONDUCT DEMOLITION AND DEBRIS-REMOVAL OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, WALKWAYS, AND OTHER ADJACENT OCCUPIED FACILITIES.
20. DEMOLISH AND REMOVE EXISTING CONSTRUCTION ONLY TO THE EXTENT REQUIRED BY CONSTRUCTION AND AS INDICATED ON DRAWINGS.
21. NEATLY CUT OPENINGS AND HOLES PLUMB, SQUARE, AND TRUE TO DIMENSIONS REQUIRED. USE CUTTING METHODS LEAST LIKELY TO DAMAGE CONSTRUCTION TO REMAIN OR ADJACENT CONSTRUCTION.
22. USE HAND TOOLS OR SMALL POWER TOOLS DESIGNED FOR SAWING OR GRINDING, NOT HAMMERS, TO AVOID DAMAGING OR CAUSING DAMAGE TO ADJACENT CONSTRUCTION. TEMPORARILY COVER OPENINGS TO REMAIN.
23. CUT OR DRILL FROM THE EXPOSED OR FINISHED SIDE INTO CONCEALED SURFACES TO AVOID DAMAGING EXISTING FINISHED SURFACES.
24. AT CONCEALED SPACES, VERIFY CONDITION AND CONTENTS OF CONCEALED SPACE PRIOR TO START OF DEMOLITION OPERATIONS.
25. REMOVE DECAYED, VERMIN-INFESTED, DANGEROUS, OR UNSUITABLE MATERIALS AND PROMPTLY DISPOSE OF OFF-SITE.
26. LOCATE DEMOLITION EQUIPMENT AND REMOVE DEBRIS AND MATERIALS SO AS NOT TO OVERLOAD SUPPORTING WALLS, FLOORS, OR FRAMING BEYOND THEIR STRUCTURAL CAPACITY.
27. DISPOSE OF DEMOLISHED MEMBERS AND MATERIALS DAILY.
28. MASONRY DEMOLITION: CUT MASONRY IN SMALL SECTIONS USING POWER-DRIVEN SAW, THEN REMOVE MASONRY BETWEEN SAW CUTS.
29. CONCRETE SLABS-ON-GRADE DEMOLITION: SAW-CUT PERIMETER OF AREA TO BE DEMOLISHED, THEN BREAK UP AND REMOVE.
30. REMOVE DEBRIS FROM ELEVATED PORTIONS OF BUILDING BY CHUTE, HOIST, OR OTHER DEVICE THAT WILL CONVEY DEBRIS TO GRADE LEVEL IN A CONTROLLED DESCENT.
31. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT, AND DEBRIS CAUSED BY DEMOLITION. REMOVE DUST AND ADJACENT AREAS TO CONDITION EXISTING BEFORE DEMOLITION OPERATIONS BEGAN.

ISSUED		
MARK	DATE	DESCRIPTION
	02/19/2026	DSA SUBMITTAL
	06/02/2026	DSA BACKCHECK

MANAGEMENT	
LIONAKIS PROJECT NO:	024003
CLIENT PROJECT NO:	-
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TITLE

GENERAL NOTES

SHEET

G-011

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

GENERAL NOTES

- SEE SPECIFIC BUILDING LIFE SAFETY PLAN SHEETS GL-111 FOR EXITING REQUIREMENTS AND BUILDING CODE ANALYSIS.
- THE PATH OF TRAVEL 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, INCLUDING, BUT NOT LIMITED TO 2025 CBC 11B-402.2 AND 11B-403.
- ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLANS IS A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE OR VERTICAL CHANGES NOT EXCEEDING 1/4" MAXIMUM AND AT LEAST 48" WIDE. SURFACE IS SLIP RESISTANT, STABLE, FIRM AND SMOOTH. THE CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM (11B-307.4) AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80" (11B-307.2). ARCHITECT AND CONTRACTORS SHALL VERIFY THAT ALL BARRIERS ON THE INDICATED PATH OF TRAVEL HAVE BEEN REMOVED.
- DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT PER DSA PR 15-01: THE PATH OF TRAVEL (POT) IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT EDITION OF THE 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 PATH OF TRAVEL WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE PATH OF TRAVEL THAT WERE DETERMINED TO BE NONCOMPLIANT 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 PORTION OF THE PATH OF TRAVEL THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS DURING CONSTRUCTION. IF PATH OF TRAVEL ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NONCOMPLYING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

LEGEND

- (E) ACCESSIBLE PATH OF TRAVEL
(SEE APPLICABLE DSA APP# FOR PREVIOUS APPROVAL)
- EXISTING BUILDING IN SCOPE OF WORK
- EXISTING BUILDING LOCATION WITH NO SCOPE OF WORK
- PORTION OF EXISTING BUILDING TO BE MODERNIZED UNDER THIS SCOPE
- BOYS / MENS ACCESSIBLE RESTROOM
- GIRLS / WOMENS ACCESSIBLE RESTROOM

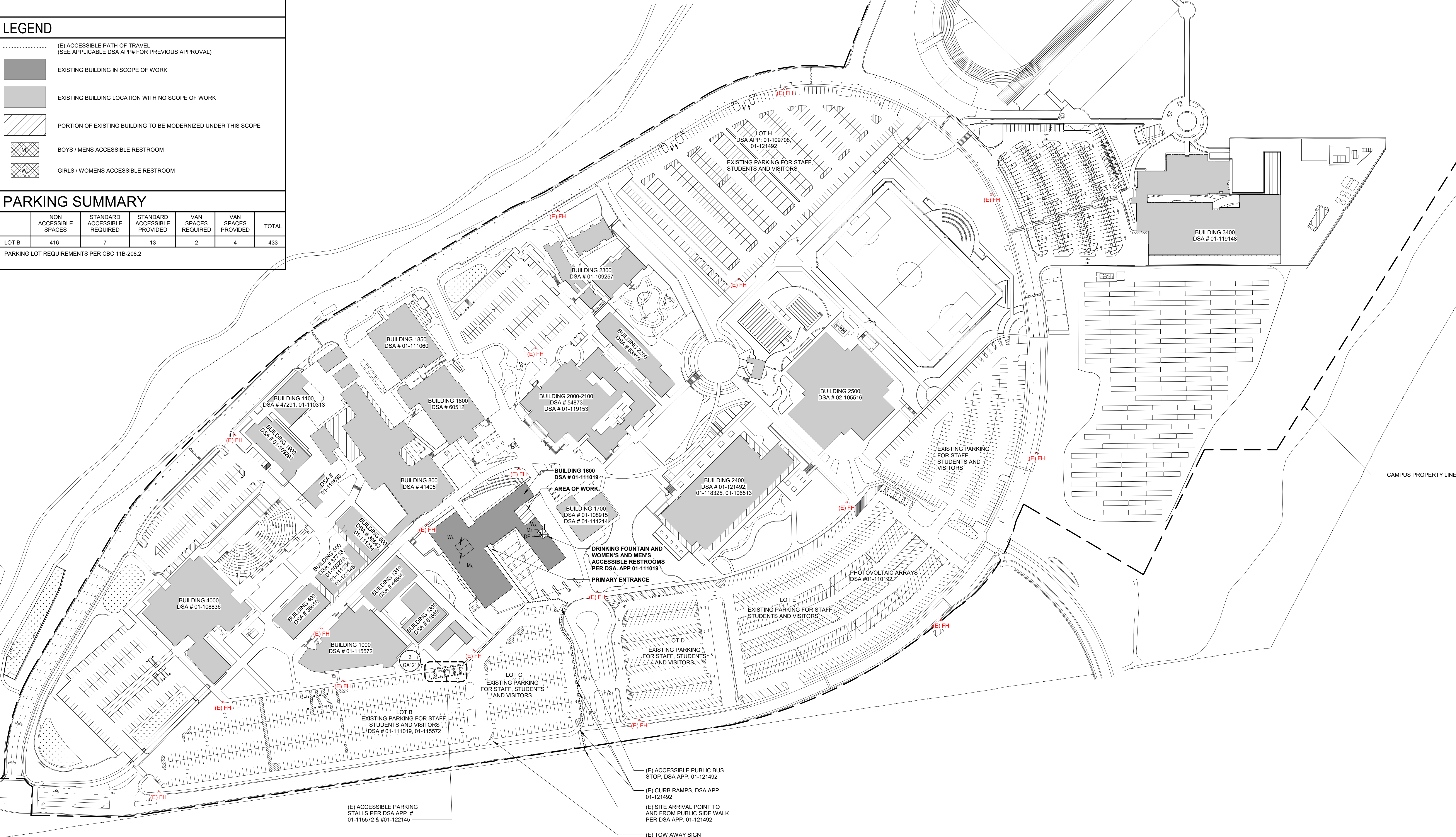
PARKING SUMMARY

	NON ACCESSIBLE SPACES	STANDARD ACCESSIBLE REQUIRED	STANDARD ACCESSIBLE PROVIDED	VAN SPACES REQUIRED	VAN SPACES PROVIDED	TOTAL
LOT B	416	7	13	2	4	433
PARKING LOT REQUIREMENTS PER CBC 11B-208.2						

- (E) CONCRTE
WHEELSTOP, TYP
- (E) 4" WHITE LINE BORDER, TYP
- (E) 4" BLUE LINE BORDER
AROUND PERIMETER, TYP
- (E) PARKING SIGN, TYP
- (E) TRUNCATED DOMES

EXISTING ACCESSIBLE PARKING

SCALE 1/8" = 1'-0"



CAMPUS SITE PLAN

SCALE 1" = 100'-0"

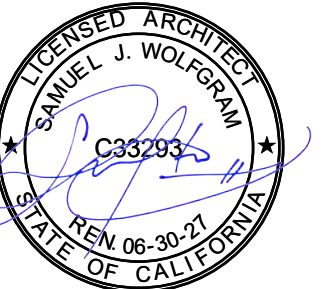
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122895 INC.
REVIEWED FOR:
SS ☒ FLS ☒ ACS ☒
DATE: 06/16/2026

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CONSULTANT

SEAL



PROJECT
PATHWAYS SUPPORT CENTER
RENOVATION

3000 CAMPUS HILL DR
LIVERMORE, CA 94551

CLIENT
CHABOT-LAS POSITAS COMMUNITY COLLEGE
DISTRICT
3000 CAMPUS HILL DRIVE LIVERMORE, CA 94551

MARK	DATE	DESCRIPTION
	02/19/2026	DSA SUBMITTAL
	06/02/2026	DSA BACKCHECK

MANAGEMENT
LIONAKIS PROJECT NO: 024003
CLIENT PROJECT NO:
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TITLE
ACCESSIBILITY & CODE
ANALYSIS SITE PLAN

SHEET

GA121

0 1/4" 1/2" 1" 2" 3" 4" 5" 6" 7" 8" 9" 10" 11" 12" 13" 14" 15" 16" 17" 18" 19" 20" 21" 22" 23" 24" 25" 26" 27" 28" 29" 30" 31" 32" 33" 34" 35" 36" 37" 38" 39" 40" 41" 42" 43" 44" 45" 46" 47" 48" 49" 50" 51" 52" 53" 54" 55" 56" 57" 58" 59" 60" 61" 62" 63" 64" 65" 66" 67" 68" 69" 70" 71" 72" 73" 74" 75" 76" 77" 78" 79" 80" 81" 82" 83" 84" 85" 86" 87" 88" 89" 90" 91" 92" 93" 94" 95" 96" 97" 98" 99" 100" 101" 102" 103" 104" 105" 106" 107" 108" 109" 110" 111" 112" 113" 114" 115" 116" 117" 118" 119" 120" 121" 122" 123" 124" 125" 126" 127" 128" 129" 130" 131" 132" 133" 134" 135" 136" 137" 138" 139" 140" 141" 142" 143" 144" 145" 146" 147" 148" 149" 150" 151" 152" 153" 154" 155" 156" 157" 158" 159" 160" 161" 162" 163" 164" 165" 166" 167" 168" 169" 170" 171" 172" 173" 174" 175" 176" 177" 178" 179" 180" 181" 182" 183" 184" 185" 186" 187" 188" 189" 190" 191" 192" 193" 194" 195" 196" 197" 198" 199" 200" 201" 202" 203" 204" 205" 206" 207" 208" 209" 210" 211" 212" 213" 214" 215" 216" 217" 218" 219" 220" 221" 222" 223" 224" 225" 226" 227" 228" 229" 230" 231" 232" 233" 234" 235" 236" 237" 238" 239" 240" 241" 242" 243" 244" 245" 246" 247" 248" 249" 250" 251" 252" 253" 254" 255" 256" 257" 258" 259" 260" 261" 262" 263" 264" 265" 266" 267" 268" 269" 270" 271" 272" 273" 274" 275" 276" 277" 278" 279" 280" 281" 282" 283" 284" 285" 286" 287" 288" 289" 290" 291" 292" 293" 294" 295" 296" 297" 298" 299" 300" 301" 302" 303" 304" 305" 306" 307" 308" 309" 310" 311" 312" 313" 314" 315" 316" 317" 318" 319" 320" 321" 322" 323" 324" 325" 326" 327" 328" 329" 330" 331" 332" 333" 334" 335" 336" 337" 338" 339" 340" 341" 342" 343" 344" 345" 346" 347" 348" 349" 350" 351" 352" 353" 354" 355" 356" 357" 358" 359" 360" 361" 362" 363" 364" 365" 366" 367" 368" 369" 370" 371" 372" 373" 374" 375" 376" 377" 378" 379" 380" 381" 382" 383" 384" 385" 386" 387" 388" 389" 390" 391" 392" 393" 394" 395" 396" 397" 398" 399" 400" 401" 402" 403" 404" 405" 406" 407" 408" 409" 410" 411" 412" 413" 414" 415" 416" 417" 418" 419" 420" 421" 422" 423" 424" 425" 426" 427" 428" 429" 430" 431" 432" 433" 434" 435" 436" 437" 438" 439" 440" 441" 442" 443" 444" 445" 446" 447" 448" 449" 450" 451" 452" 453" 454" 455" 456" 457" 458" 459" 460" 461" 462" 463" 464" 465" 466" 467" 468" 469" 470" 471" 472" 473" 474" 475" 476" 477" 478" 479" 480" 481" 482" 483" 484" 485" 486" 487" 488" 489" 490" 491" 492" 493" 494" 495" 496" 497" 498" 499" 500" 501" 502" 503" 504" 505" 506" 507" 508" 509" 510" 511" 512" 513" 514" 515" 516" 517" 518" 519" 520" 521" 522" 523" 524" 525" 526" 527" 528" 529" 530" 531" 532" 533" 534" 535" 536" 537" 538" 539" 540" 541" 542" 543" 544" 545" 546" 547" 548" 549" 550" 551" 552" 553" 554" 555" 556" 557" 558" 559" 560" 561" 562" 563" 564" 565" 566" 567" 568" 569" 570" 571" 572" 573" 574" 575" 576" 577" 578" 579" 580" 581" 582" 583" 584" 585" 586" 587" 588" 589" 590" 591" 592" 593" 594" 595" 596" 597" 598" 599" 600" 601" 602" 603" 604" 605" 606" 607" 608" 609" 610" 611" 612" 613" 614" 615" 616" 617" 618" 619" 620" 621" 622" 623" 624" 625" 626" 627" 628" 629" 630" 631" 632" 633" 634" 635" 636" 637" 638" 639" 640" 641" 642" 643" 644" 645" 646" 647" 648" 649" 650" 651" 652" 653" 654" 655" 656" 657" 658" 659" 660" 661" 662" 663" 664" 665" 666" 667" 668" 669" 670" 671" 672" 673" 674" 675" 676" 677" 678" 679" 680" 681" 682" 683" 684" 685" 686" 687" 688" 689" 690" 691" 692" 693" 694" 695" 696" 697" 698" 699" 700" 701" 702" 703" 704" 705" 706" 707" 708" 709" 710" 711" 712" 713" 714" 715" 716" 717" 718" 719" 720" 721" 722" 723" 724" 725" 726" 727" 728" 729" 730" 731" 732" 733" 734" 735" 736" 737" 738" 739" 740" 741" 742" 743" 744" 745" 746" 747" 748" 749" 750" 751" 752" 753" 754" 755" 756" 757" 758" 759" 760" 761" 762" 763" 764" 765" 766" 767" 768" 769" 770" 771" 772" 773" 774" 775" 776" 777" 778" 779" 780" 781" 782" 783" 784" 785" 786" 787" 788" 789" 790" 791" 792" 793" 794" 795" 796" 797" 798" 799" 800" 801" 802" 803" 804" 805" 806" 807" 808" 809" 810" 811" 812" 813" 814" 815" 816" 817" 818" 819" 820" 821" 822" 823" 824" 825" 826" 827" 828" 829" 830" 831" 832" 833" 834" 835" 836" 837" 838" 839" 840" 841" 842" 843" 844" 845" 846" 847" 848" 849" 850" 851" 852" 853" 854" 855" 856" 857" 858" 859" 860" 861" 862" 863" 864" 865" 866" 867" 868" 869" 870" 871" 872" 873" 874" 875" 876" 877" 878" 879" 880" 881" 882" 883" 884" 885" 886" 887" 888" 889" 890" 891" 892" 893" 894" 895" 896" 897" 898" 899" 900" 901" 902" 903" 904" 905" 906" 907" 908" 909" 910" 911" 912" 913" 914" 915" 916" 917" 918" 919" 920" 921" 922" 923" 924" 925" 926" 927" 928" 929" 930" 931" 932" 933" 934" 935" 936" 937" 938" 939" 940" 941" 942" 943" 944" 945" 946" 947" 948" 949" 950" 951" 952" 953" 954" 955" 956" 957" 958" 959" 960" 961" 962" 963" 964" 965" 966" 967" 968" 969" 970" 971" 972" 973" 974" 975" 976" 977" 978" 979" 980" 981" 982" 983" 984" 985" 986" 987" 988" 989" 990" 991" 992" 993" 994" 995" 996" 997" 998" 999" 1000

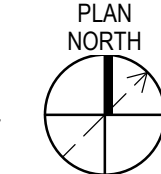
IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT - SCALE ACCORDINGLY

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1

BLDG 1600 - LIFE SAFETY FLOOR PLAN

SCALE 1" = 10'-0"

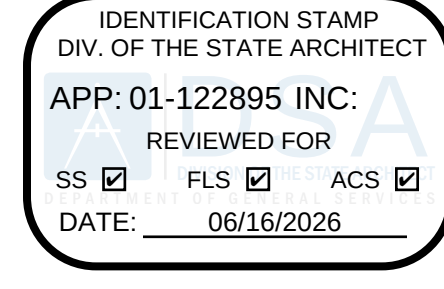


BUILDING CODE ANALYSIS

1. GOVERNING CODE:	2025 CALIFORNIA BUILDING CODE			
2. OCCUPANCY TYPE: (CBC 302)	MIXED USE AND OCCUPANCY PER CBC 508 NON-SEPARATED OCCUPANCIES ANALYSIS PER CBC 508.3			
3. CONSTRUCTION TYPE: (CBC 602 & TABLE 601)	TYPE II-B WITH AUTOMATIC FIRE SPRINKLER SYSTEM			
4. BASIC ALLOWABLE HEIGHT AND BUILDING AREA: (CBC TABLE 504.3, 504.4, & 506.2)	OCCUPANCY GROUP	ALLOWABLE BLDG AREA	MAX NO OF STORIES	ALLOWABLE BLDG HT
	GROUP B	69,000 SF	4 STORIES	75'-0"
	GROUP F-1	46,500 SF	3 STORIES	75'-0"
	GROUP A-2/A-3	28,500 SF	3 STORIES	75'-0"
5. ACTUAL BUILDING DATA:	OCCUPANCY GROUP	ACTUAL BLDG AREA	ACTUAL NO OF STORIES	ACTUAL BLDG HT
	GROUP B	56,083 SF	2 STORIES	35'-0"
	GROUP F-1	8,294 SF	2 STORIES	35'-0"
	GROUP A-2/A-3	8,294 SF	2 STORIES	35'-0"
	TOTAL BLDG AREA INCLUDING OVERHANGS	68,016 SF		
	TOTAL GROSS	68,016 SF		
6. BASIC ALLOWABLE BUILDING AREA (CBC 506.1 & TABLE 503)	ACTUAL 68,016 SF < ALLOWABLE AREA 75,670 SF OK			
7. FIRE RESISTANCE REQUIREMENTS: (CBC TABLE 601)	STRUCTURAL FRAME		0 HOURS	
	BEARING WALLS - EXTERIOR		0 HOURS	
	BEARING WALLS - INTERIOR		0 HOURS	
	NON-BEARING WALLS & PARTITIONS - EXTERIOR: (CBC TABLE 602 & 705.5)		FIRE RATING BASED ON FIRE SEPARATION DISTANCE X < 5 FT = 1HR 5 FT < X < 10 FT = 1 HR 10 FT < X < 30 FT = 0 HR X > 30 = 0 HR	
	NON-BEARING WALLS & PARTITIONS - INTERIOR:		0 HOURS	
	FLOOR CONSTRUCTION		0 HOURS	
	ROOF CONSTRUCTION		0 HOURS	
	PROJECTIONS (CBC 705.2)		0 HR - MAY BE OF ANY NONCOMBUSTIBLE MATERIAL	
	EXTERIOR DOORS AND WINDOWS (CBC TABLE 705.8)		UNPROTECTED, 25% MAX (FIRE SEPARATION DISTANCE 5 FT ≤ X < 10 FT) UNPROTECTED, 75% MAX (FIRE SEPARATION DISTANCE 15 FT ≤ X < 20 FT)	
	CORRIDORS (CBC TABLE 1020.2)		0 HOURS	
8. OCCUPANT LOAD: (CBC TABLE 1004.5)	LEVEL 1: 1003	LEVEL 2: 410		
9. TOTAL EGRESS WIDTH REQUIRED: (CBC 1005.1)	SEE PLAN			
10. COMMON PATH OF EGRESS TRAVEL: (CBC 1006.2.1)	TWO EXITS OR EXIT ACCESS DOORWAYS FROM A SPACE SHALL BE PROVIDED WHERE THE COMMON PATH OF TRAVEL EXCEEDS 75'			
	COMMON EGRESS PATH OF TRAVEL SHALL NOT EXCEED 75'			

LEGEND

USE	NAME	CEILING MOUNTED "EXIT" SIGNS W/ DIRECTIONAL ARROWS WHERE SHOWN
SQUARE FOOTAGE	XXX SF / XX	EXIT
OCCUPANT LOAD	[XX]	
OCCUPANT LOAD FACTOR		
EXIT LOCATION & NUMBER OF OCCUPANTS USING EXIT	→ 27	NON-RATED PARTITION
OCCUPANT LOAD	0	(E) MIN 1HR-RATED PARTITION
FIRE EXTINGUISHER	* FE	
OCCUPANCY B		NOT IN SCOPE



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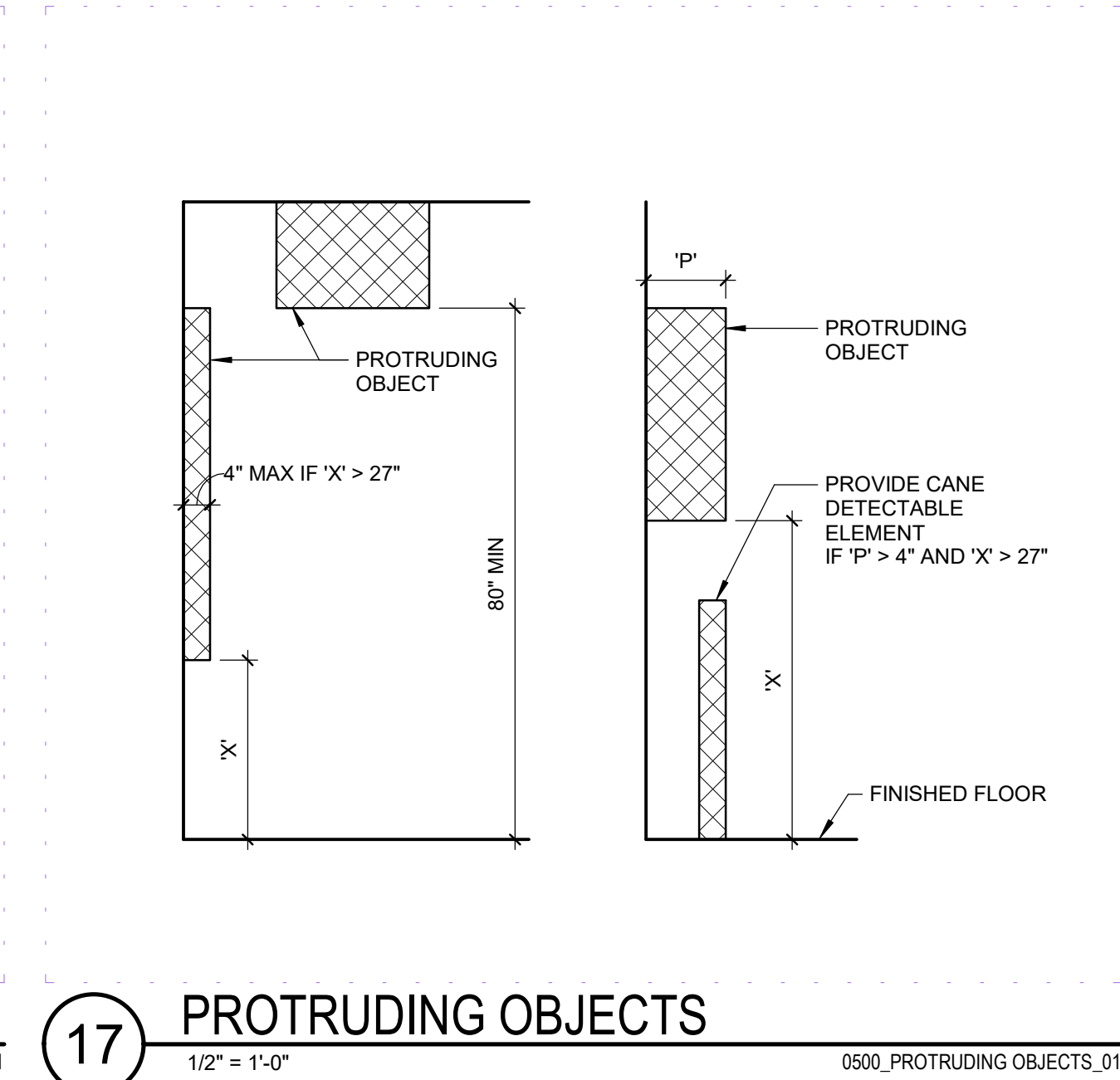
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	06/02/2026	DSA BACKCHECK

MANAGEMENT
LIONAKIS PROJECT NO: 024003
CLIENT PROJECT NO:
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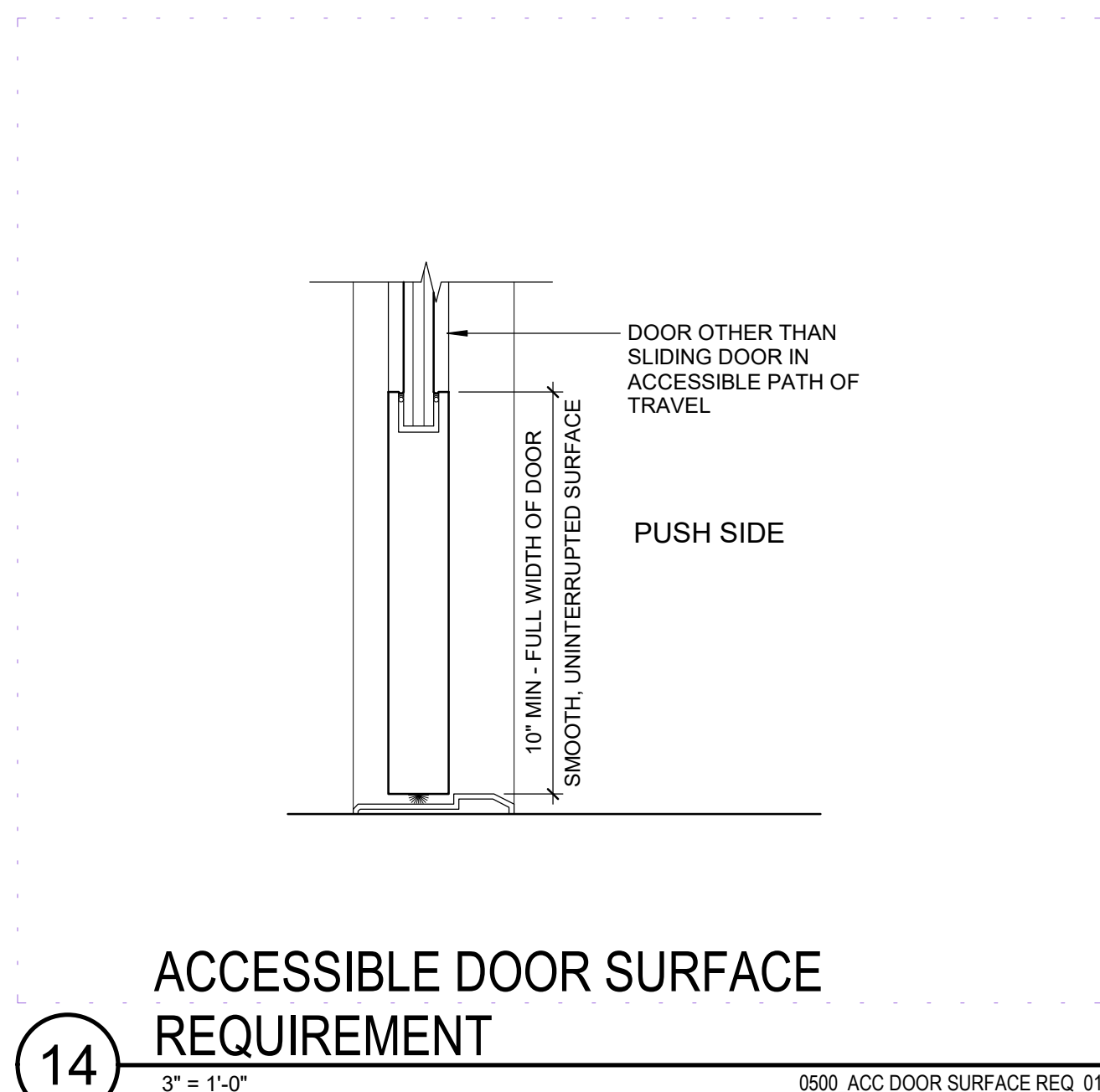
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LIFE SAFETY FLOOR
PLAN - LEVEL 1

SHEET

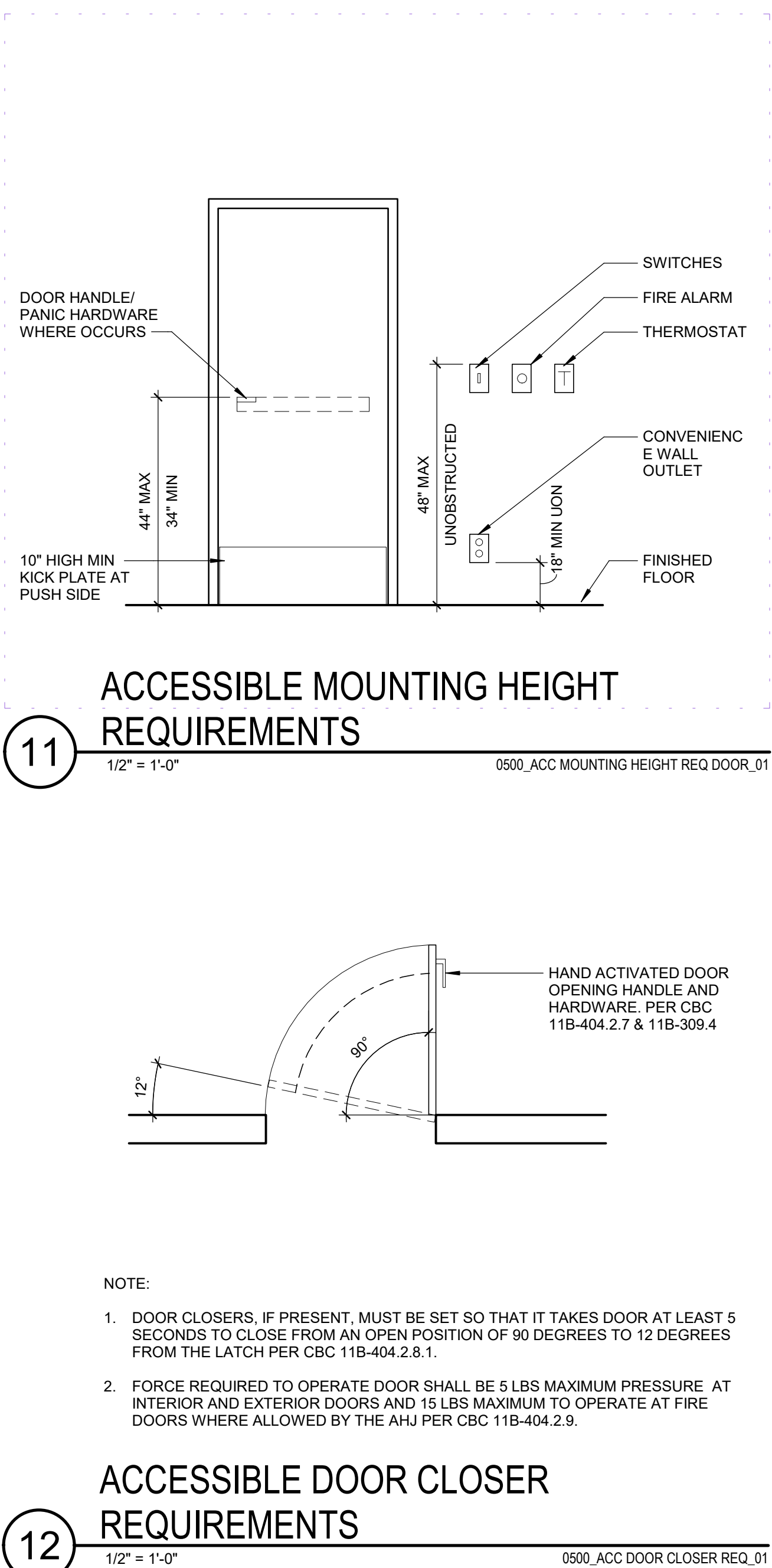
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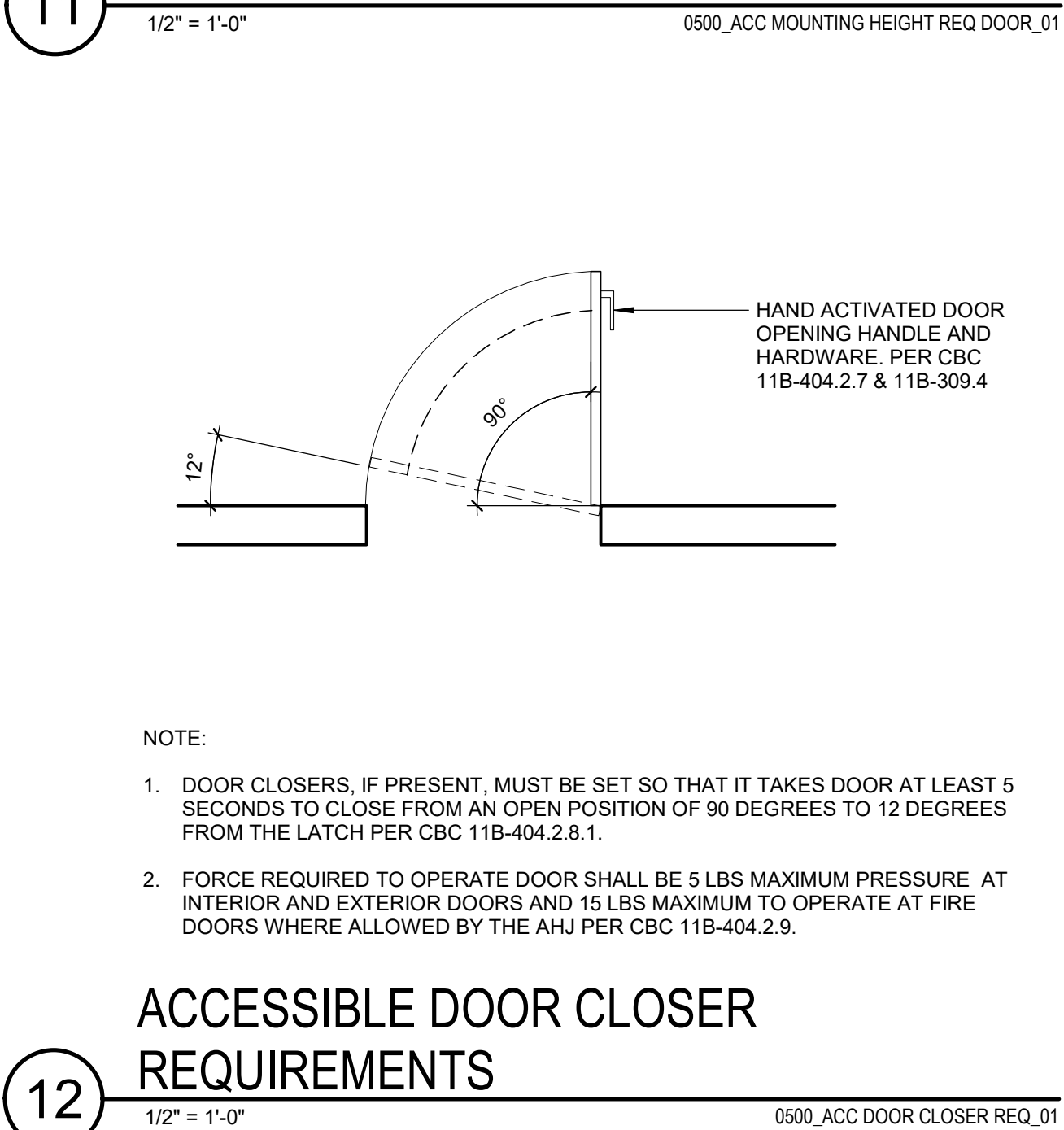
17 PROTRUDING OBJECTS



11 ACCESSIBLE DOOR SURFACE REQUIREMENT

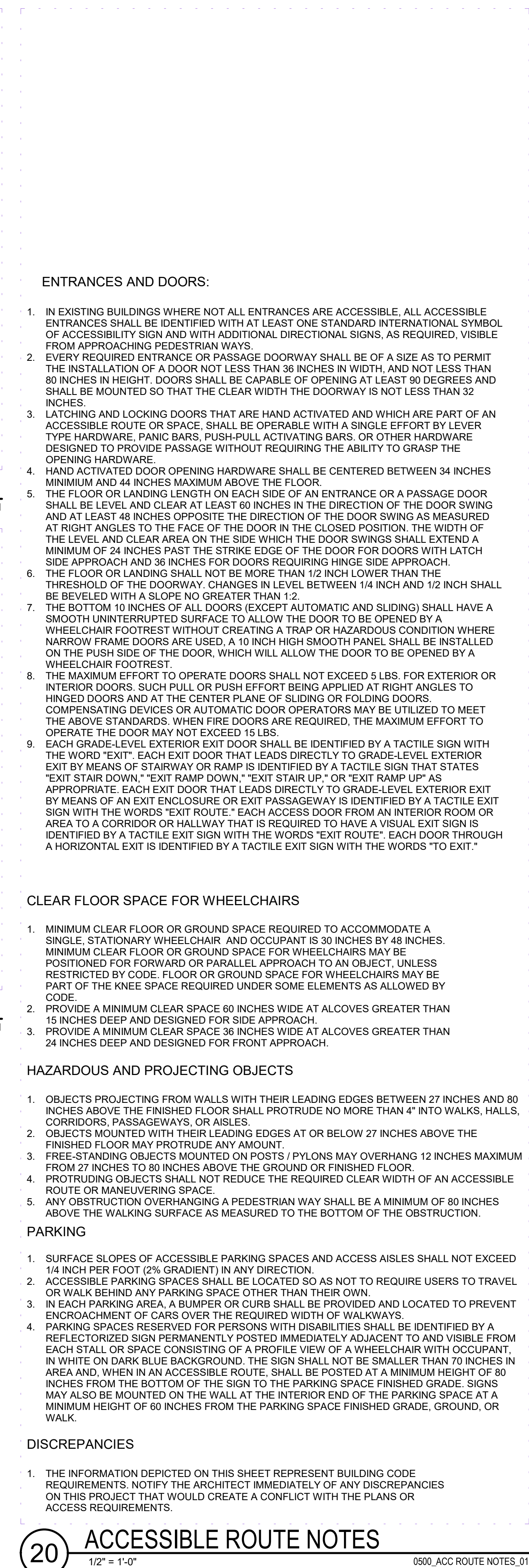


15 ACCESSIBLE ROUTE WALK

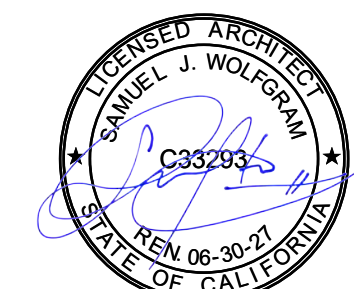


ON THIS PROJECT THAT WOULD CREATE A CONFLICT WITH THE PLANNING ACT'S ACCESS REQUIREMENTS.

30 ACCESSIBLE ROUTE NOTES



SEA



PROJECT

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LIVERMORE, CA 94551

CLIENT
CHABOT-LAS POSITAS COMMUNITY COLLEGE
DISTRICT

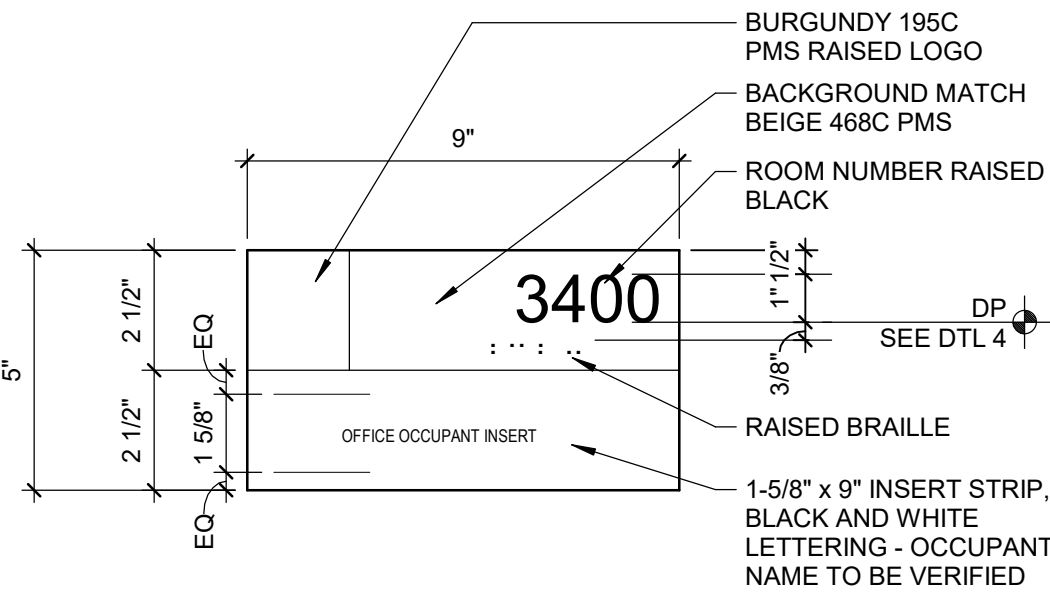
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	06/02/2026	DSA BACKCHECK

MANAGEMENT	
LIONAKIS PROJECT NO:	024003
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ACCESSIBILITY REQUIREMENTS

SHEET

GA511



TYPE K.1

1 ROOM SIGNAGE

3' = 1'-0"

70RS TRACKING NUMBER?
YYMMDD?

1. ALL SYMBOLS TO CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND, UNLESS APPROVED OTHERWISE, SEE BELOW.
2. BLUE TO APPROXIMATE F815990 IN FEDERAL STANDARD 595C
3. ALTERNATE COLORS MAY BE USED IF APPROVED BY THE AUTHORITY HAVING JURISDICTION, BUT CONTRAST MUST REMAIN - EITHER DARK ON LIGHT OR LIGHT ON DARK
4. SEE SIGNAGE PLAN AND SPECIFIC SIGN DETAILS FOR SIZES AND APPLICATION



INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA)



VOLUME CONTROL TELEPHONE



INTERNATIONAL SYMBOL OF TTY

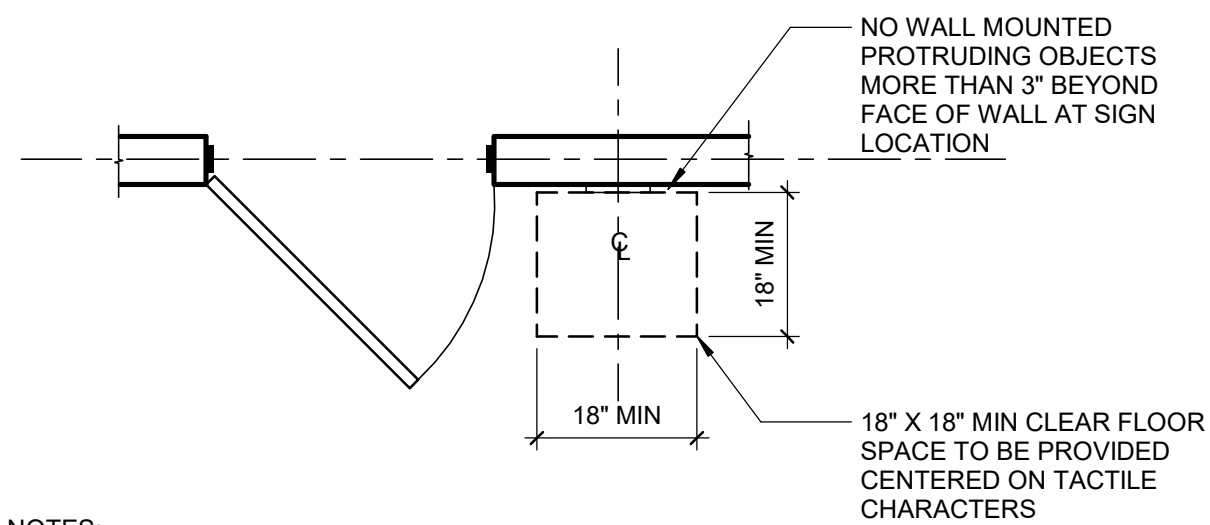


INTERNATIONAL SYMBOL OF ACCESS FOR HEARING LOSS

2 STANDARD SYMBOLS

1/2" = 1'-0"

0570_STD_SYM_01



NOTES:

1. WHERE A TACTILE SIGN IS PROVIDED AT DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT EACH LATCH
2. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF
3. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAVES, THEN THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR
4. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF A DOUBLE DOOR, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL
5. 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
6. SIGNS THAT IDENTIFY EXITS SHALL BE LOCATED ON THE APPROACH SIDE OF THE DOOR AS ONE ENTERS THE ROOM OR SPACE
7. FOR SIGN MOUNTING HEIGHT REQUIREMENTS; SEE DETAIL 4/GA512

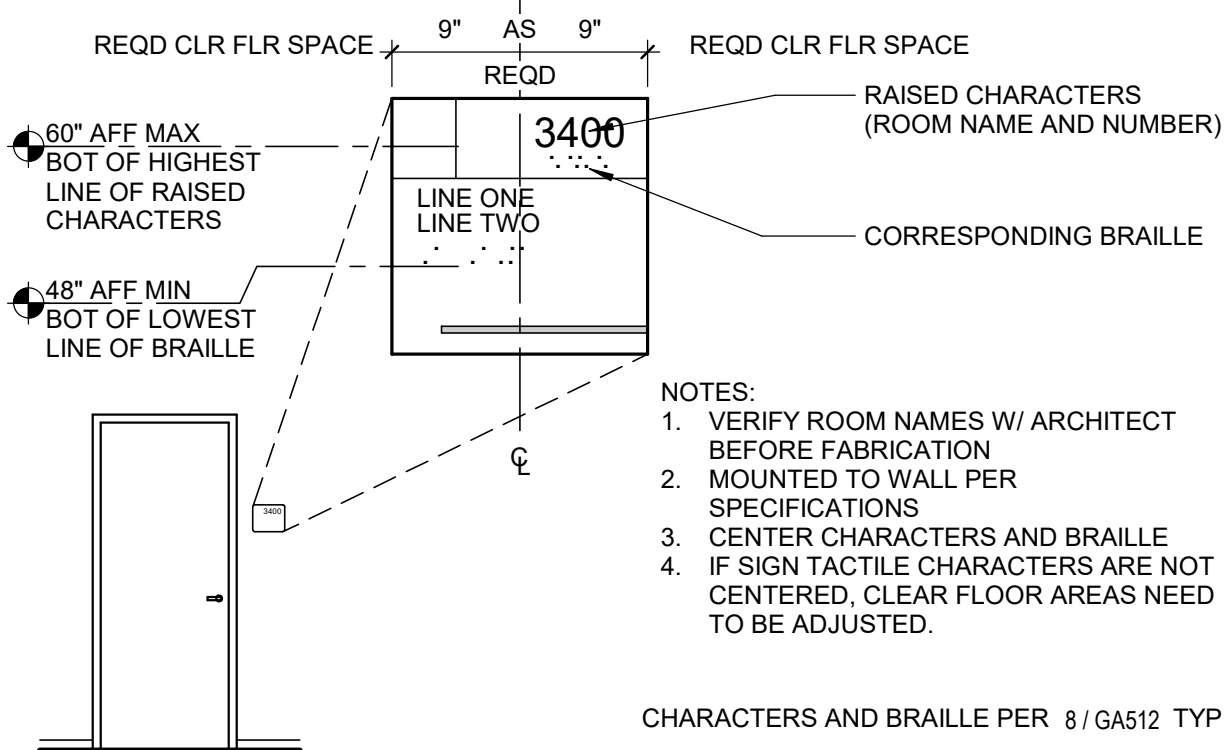
3 SIGN LOCATION

1/2" = 1'-0"

0570_TACTILE DR SIGN NOTES_01

NOTES:

1. PERMANENT SIGNAGE TO BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR
2. AT SIGNS WITH TACTILE CHARACTERS - PROVIDE AN 18" SQUARE CLEAR FLOOR AREA CENTERED ON THE TACTILE CHARACTERS AND BEYOND THE ARC OF ANY DOOR SWING BETWEEN CLOSED AND 45 DEG. OPEN POSITIONS
3. SIGNS AND IDENTIFICATION SHALL BE FIELD INSPECTED AFTER INSTALLATION AND APPROVED BY THE ENFORCING AGENCY, IN ACCORDANCE WITH SECTION 11B-703.1.1.2 "INSPECTION"



CHARACTERS AND BRAILLE PER 8/GA512 TYP

4 PERMANENT ROOM IDENTIFICATION SIGNS

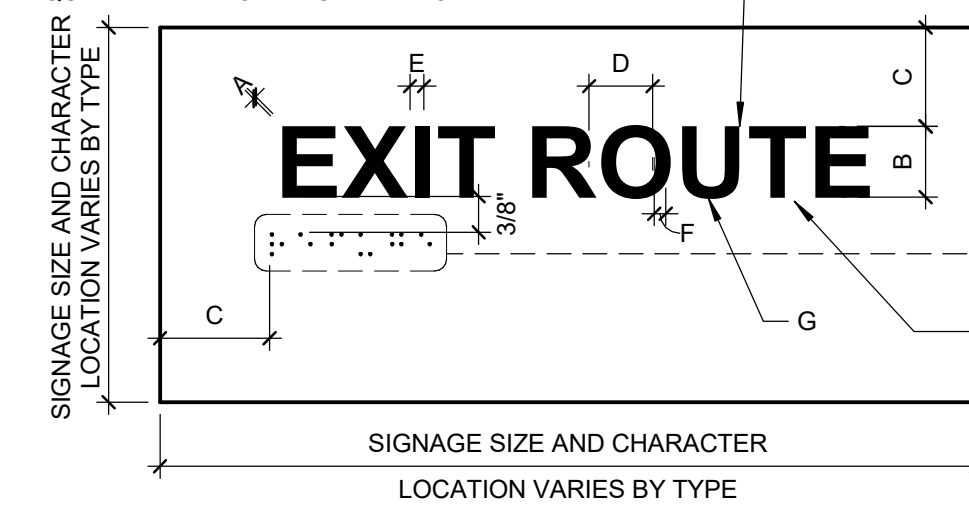
1/4" = 1'-0"

0570_PERM ROOM ID CA_01

7 EVACUATION SIGNAGE

1" = 1'-0"

VISUAL & TACTILE CHARACTERS MAY BE COMBINED OR MAY BE SEPARATE LINES, BUT MUST MEET THE REQUIREMENTS FOR EACH TYPE OF TEXT



RAISED CHARACTER REQUIREMENTS AND LEGEND:

- A. CHARACTERS SHALL BE RAISED 1/32" MINIMUM ABOVE THEIR BACKGROUND.
- B. CHARACTER HEIGHT SHALL BE A MINIMUM OF 5/8" AND A MAXIMUM OF 2" HIGH BASED ON THE UPPERCASE "I".
- C. CHARACTERS SHALL BE SEPARATED FROM ANY RAISED BORDER OR DECORATIVE ELEMENT BY 3/8"
- D. CHARACTER FONT PROPORTION WITH THE UPPERCASE "O" WIDTH BEING 60 PERCENT MINIMUM TO 110 PERCENT MAXIMUM THE HEIGHT OF THE UPPERCASE "I".
- E. CHARACTER STROKE THICKNESS OF THE UPPERCASE "I" SHALL BE 15 PERCENT MAXIMUM THE HEIGHT OF CHARACTER
- F. CHARACTERS THAT HAVE RECTANGULAR CROSS SECTIONS MUST HAVE SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS 1/8" MIN. TO 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAX. AT THE BASE OF THE CROSS SECTION AND 1/8" MIN. TO 4 TIMES THE STROKE WIDTH AT THE TOP OF THE CROSS SECTIONS
- G. RAISED CHARACTERS ARE TO HAVE EASED EDGES
- H. CHARACTERS AND SIGN FIELD TO HAVE NON-GLARE FINISH, SANS-SERIF, HORIZONTAL FORMAT, WITH FONTS PER CBC 11B-703.2

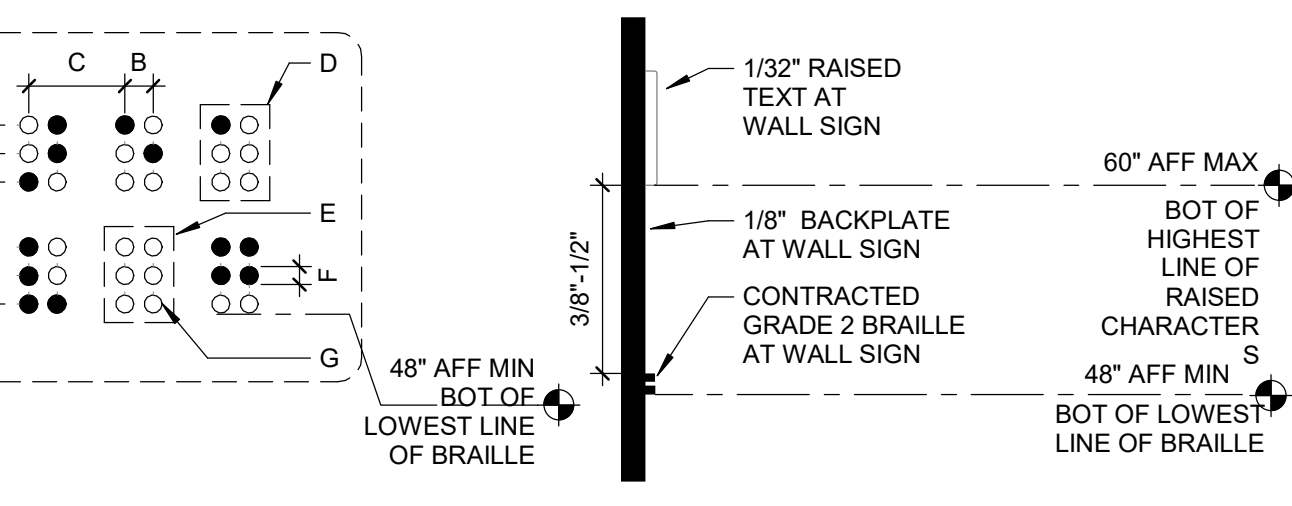
8 ACCESSIBLE TACTILE SIGN REQUIREMENTS

6" = 1'-0"

11 DIRECTIONAL ENTRY SIGNAGE

1" = 1'-0"

0570_DIRECTIONAL INFO CA_01



BRAILLE REQUIREMENTS AND LEGEND:

- BRAILLE TO BE CONTRACTED GRADE 2, AND DOT HEIGHT TO BE 0.025 TO 0.037. DOTS MUST BE DOMED OR ROUNDED. DOTS INDICATING UPPERCASE LETTER OR LETTERS MUST ONLY BE USED AT THE FIRST WORD OF SENTENCES, PROPER NOUNS AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, AND/OR ACRONYMS.
- A. DISTANCE BETWEEN CORRESPONDING DOTS FROM ONE CELL DIRECTLY BELOW: 0.395 TO 0.400
 - B. DISTANCE BETWEEN TWO DOTS IN THE SAME CELL : 0.100, MEASURED CENTER TO CENTER
 - C. DISTANCE BETWEEN CORRESPONDING DOTS IN ADJACENT CELLS: 0.300
 - D. SINGLE BRAILLE CELL
 - E. BLANK CELL SPACE BETWEEN WORDS
 - F. BASE DIAMETER: 0.059 TO 0.063
 - G. NO RAISED DOT, BLANK CELL SPACE BETWEEN WORDS

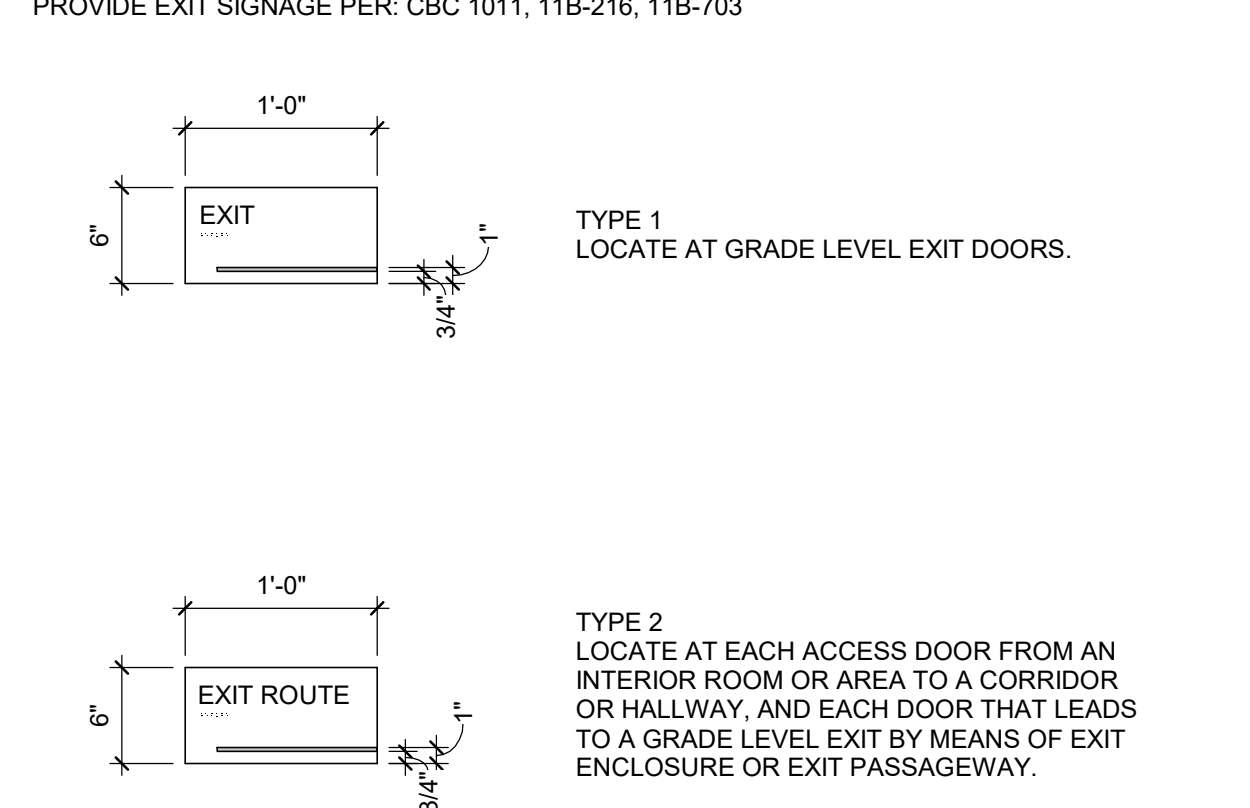
15 OCCUPANCY LOAD SIGN

1" = 1'-0"

0570_OCCUPANCY_LOAD_01

NOTES:

PROVIDE EXIT SIGNAGE PER: CBC 1011, 11B-216, 11B-703



CHARACTERS AND BRAILLE PER 8/GA512 TYP

LOCATION PER 3/GA512 TYP

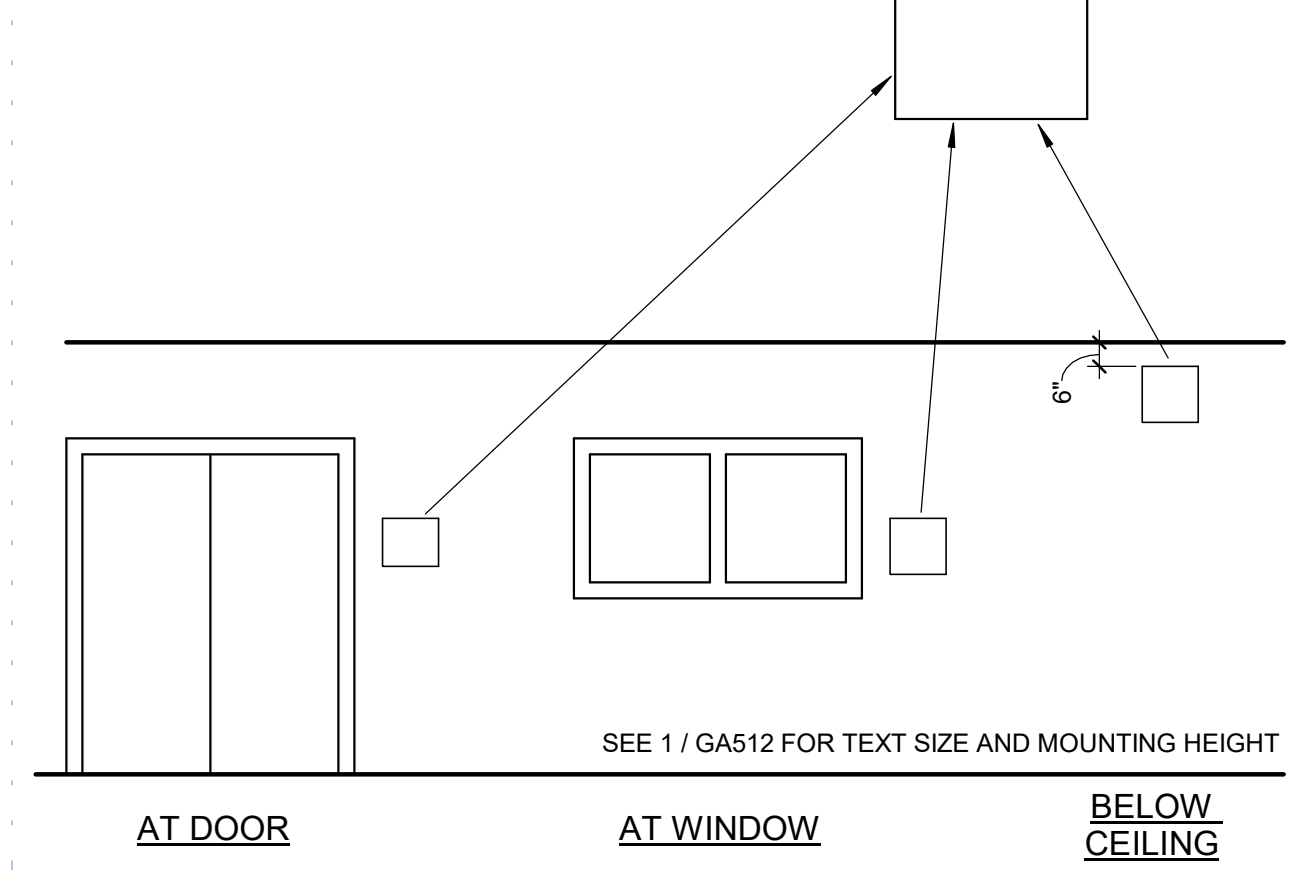
16 EXIT SIGNS

1" = 1'-0"

0570_EXIT_01

NOTES:

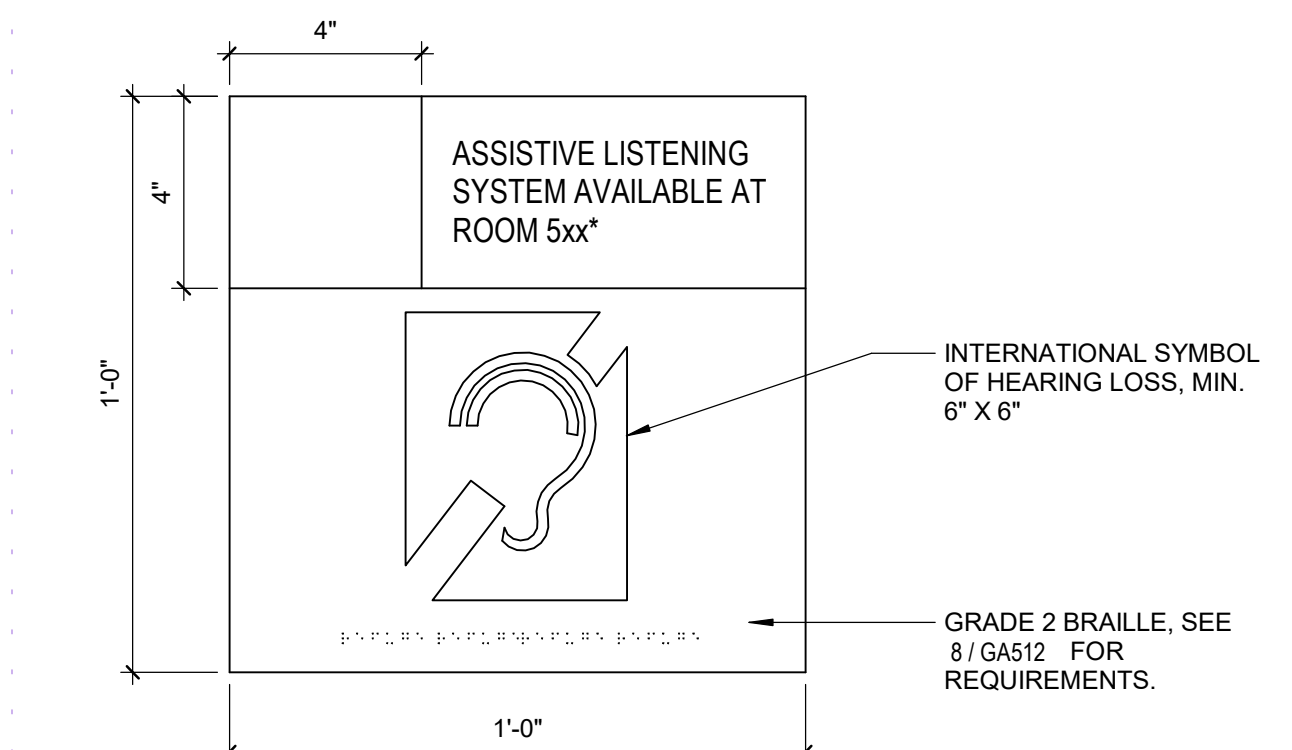
1. SIGN NOT REQUIRED TO BE PROVIDED AT A DOOR, BUT MUST BE POSTED AT A PROMINENT LOCATION NEAR THE ASSEMBLY AREA / CONFERENCE ROOM ENTRANCE. SEE SIGNAGE PLAN FOR LOCATIONS. DEVICE CALCULATIONS PROVIDED ON SIGNAGE PLAN. ALSO REQUIRED AT ALL ASSEMBLY AND CONFERENCE AREAS
2. REFER TO DETAIL 20/GA512 FOR SIGN INFORMATION



19 ASSISTIVE LISTENING SIGN LOCATION

1/4" = 1'-0"

0570_ASSISTIVE_LISTENING_01



NOTES:

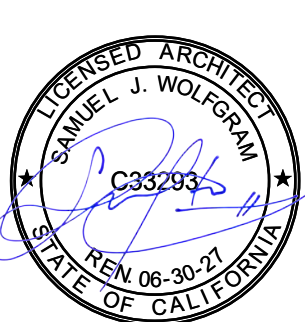
1. REFER TO DETAIL 3/GA512 FOR LOCATION ON WALLS.
2. "CONFIRM ROOM LOCATION OF ASSISTIVE LISTENING SYSTEM WITH DISTRICT PRIOR TO FABRICATION"

20 ASSISTIVE LISTENING SIGN

3" = 1'-0"

0570_ASSISTIVE_LISTENING_SIGN_LPC_01

SEAL



PROJECT PATHWAYS SUPPORT CENTER RENOVATION

3000 CAMPUS HILL DR
LIVERMORE, CA 94551

CLIENT
CHABOT-LAS POSITAS COMMUNITY COLLEGE
DISTRICT
3000 CAMPUS HILL DRIVE LIVERMORE, CA 94551

ISSUED:

MARK	DATE	DESCRIPTION
	02/19/2026	DSA SUBMITTAL
	06/02/2026	DSA BACKCHECK

MANAGEMENT

LIONAKIS PROJECT NO.	024003
CLIENT PROJECT NO.	
COPYRIGHT:	LIONAKIS 2026

TITLE ACCESSIBILITY SIGNAGE STANDARDS

SHEET

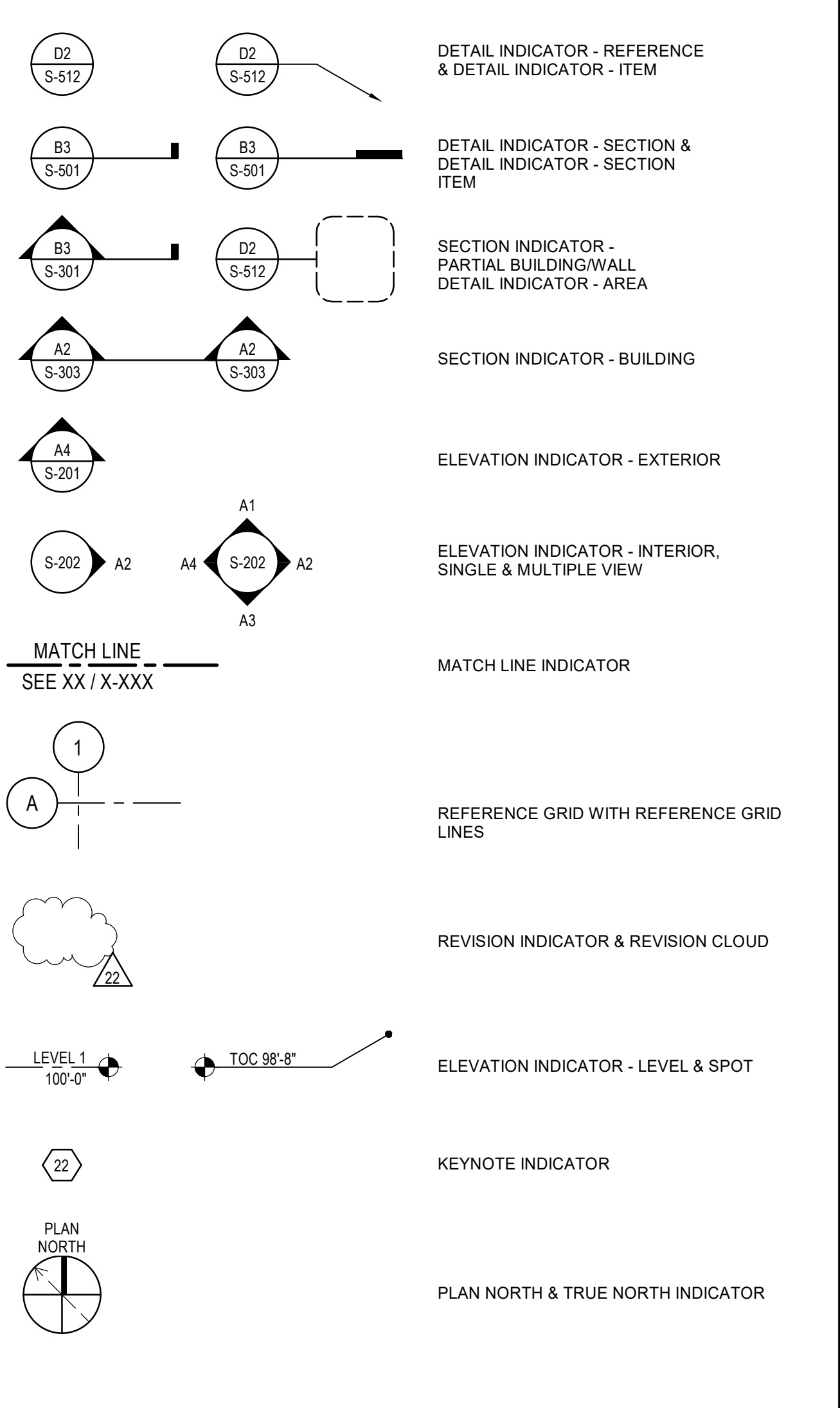
GA512

0 1/4" = 1' IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT - SCALE ACCORDINGLY

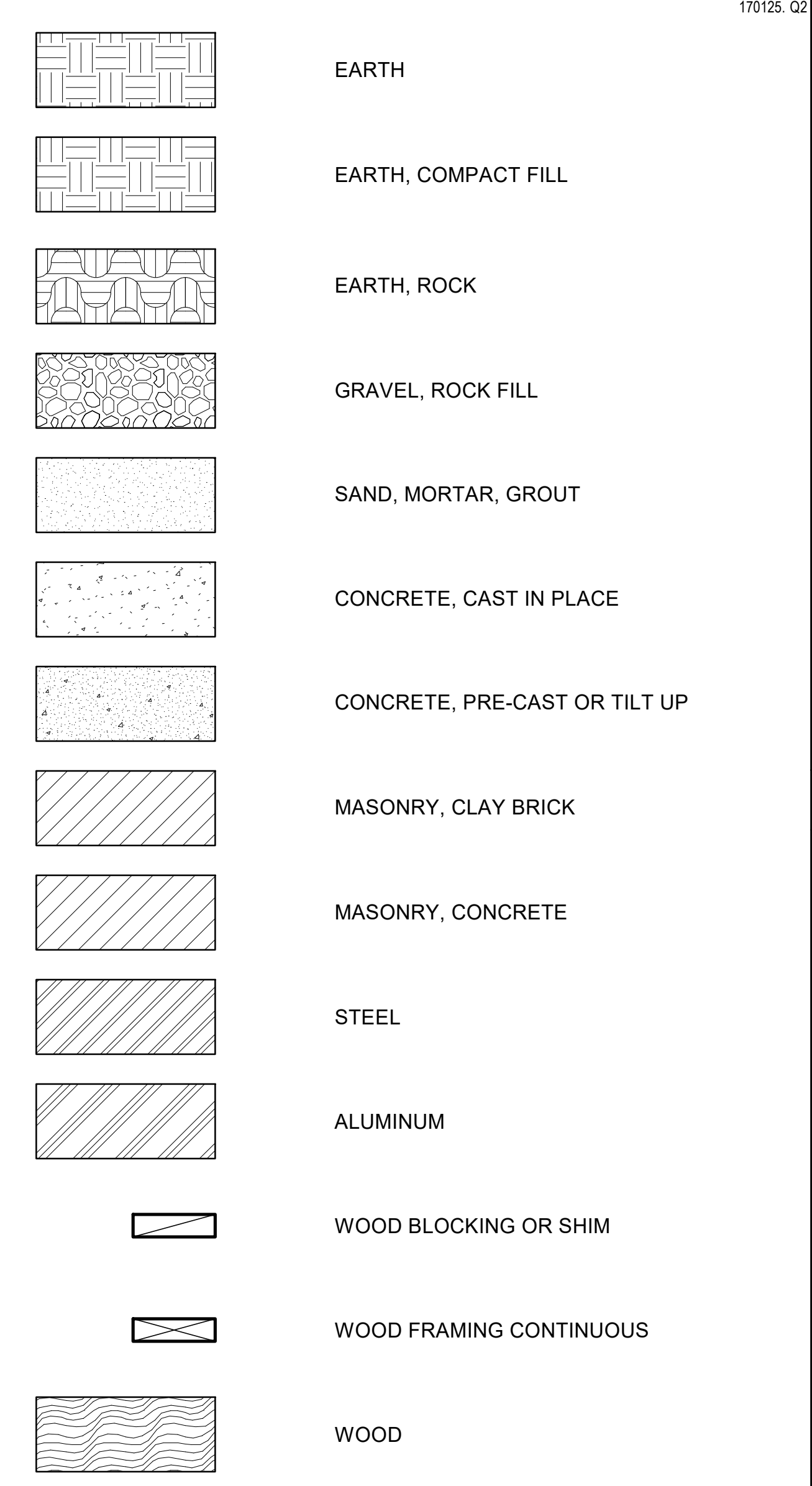
STRUCTURAL ABBREVIATIONS LEGEND

SEE UNITED STATES NATIONAL CAD STANDARD FOR ANY ABBREVIATIONS NOT LISTED BELOW. SEE BUILDING CODE FOR REFERENCED DESIGN AND MATERIALS SYMBOLS, ACRONYMS & NOTATIONS.			
&	AND	JR	INSIDE RADIUS
@	AT	JH	JOIST HANGER
(E)	EXISTING	JT	JOINT
'	FOOT, FEET	L	ANGLE, LONG, LENGTH
"	INCH, INCHES	LL	LIVE LOAD
#	NUMBER, POUND	LLH	LONG LEG HORIZONTAL
#	ARCHITECT / ENGINEER	LLV	LONG LEG VERTICAL
AB	ANCHOR BOLT	LONG	LONGITUDINAL
ABV	ABOVE	LS	LAS SCREW
ADDL	ADDITIONAL	LWC	LIGHT WEIGHT CONCRETE
AFF	ABOVE FINISHED FLOOR	MAX	MAXIMUM
AFG	ABOVE FINISHED GRADE	MB	MACHINE BOLT
AFS	ABOVE FINISHED SLAB	MC	MISCELLANEOUS CHANNEL
ALT	ALTERNATE	MCJ	MASONRY CONTROL JOINT
ALUM	ALUMINUM	MDJ	MASONRY DOWEL JOINT
APPROX	APPROXIMATE	MECH	MECHANICAL
ARCH	ARCHITECT	MEJ	MASONRY EXPANSION JOINT
ATR	ALL THREAD ROD	MFR	MANUFACTURER
BFF	BELOW FINISH FLOOR	MIN	MINIMUM
BKNG	BACKING	MISC	MISCELLANEOUS
BLDG	BUILDING	MKJ	MASONRY KEY JOINT
BLKG	BLOCKING	MRJ	MASONRY RAKE JOINT
BLW	BELOW	NA	NOT APPLICABLE
BM	BEAM	NF	NEAR FACE
BMJ	BRICK MASONRY UNIT	NIC	NOT IN CONTRAST
BN	BOUNDARY NAIL	NTS	NOT TO SCALE
BOS	BOTTOM OF STEEL	NWC	NORMAL WEIGHT CONCRETE
BOT	BOTTOM	O/	OVER
BTWN	BETWEEN	OC	ON CENTER
C	CAMBER, CHANNEL	OD	OUTSIDE DIAMETER
CB	CARRIAGE BOLT	OPH	OPPOSITE HAND
CBC	CALIFORNIA BUILDING CODE	OPNG	OPENING
CFSF	COLD-FORMED STEEL FRAMING	OPP	OPPOSITE
CG	CENTER OF GRAVITY	OR	OUTSIDE RADIUS
CJ	CONSTRUCTION JOINT	PAF	POWER ACTUATED FASTENER
CJP	COMPLETE JOINT PENETRATION	PCC	PRECAST CONCRETE
CL	CENTER LINE	PCF	POUNDS PER CUBIC FOOT
CLR	CLEAR	PJP	PARTIAL JOINT PENETRATION
CMU	CONCRETE MASONRY UNIT	PL	PLATE, PROPERTY LINE
COL	COLUMN	PLF	POUNDS PER LINEAR FOOT
CONC	CONCRETE	PREFAB	PREFABRICATE
CONN	CONNECT, CONNECTION	PSF	POUNDS PER SQUARE FOOT
CONT	CONTINUE, CONTINUOUS	PSI	POUNDS PER SQUARE INCH
CRS	COLD ROLLED STEEL	PTW	PRESERVATIVE TREATED WOOD
CSK	COUNTER SUNK	QTY	QUANTITY
CTR	CENTER	R	RADIUS, RISER
D	PENNY (NAIL), DEEP, DEPTH	REBAR	REINFORCING STEEL BAR
DBL	DOUBLE	REINF	REINFORCE, REINFORCING
DCW	DEMAND CRITICAL WELD	REQ	REQUIRE, REQUIRED
DEG	DEGREE	RND	ROUND
DEMO	DEMOLITION	RO	ROUGH OPENING
DET	DETAIL	RS	ROUGH SAWN
DI	DIAMETER	RWD	REDWOOD
DIAG	DIAGONAL	S	SPACED, SPACING, SPLICE, STEP
DIM	DIMENSION	SAD	SEE ARCHITECTURAL DRAWINGS
DJ	DOWEL JOINT	SCHED	SCHEDULE
DL	DEAD LOAD	SDST	SELF-DRILLING SELF-TAPPING
DO	DITTO, DO OVER	SE	STRUCTURAL ENGINEER
DOUG FIR	DOUGLAS FIR	SECT	SECTION
DWG	DRAWING	SFRS	SEISMIC FORCE RESISTING SYSTEM
DWL	DOWEL	SHTHG	SHEATHING
EA	EACH	SIM	SIMILAR
EE	EACH END	SJ	SHRINKAGE JOINT
EF	EACH FACE	SL	SNOW LOAD
EJ	EXPANSION JOINT	SP	STRUCTURAL PANEL
EL	ELEVATION	SPEC	SPECIFICATION
ELEC	ELECTRIC, ELECTRICAL	SQ	SQUARE
ELEV	ELEVATOR	SST	STAINLESS STEEL
EMBED	EMBEDMENT	STAG	STAGGERED
EN	EDGE NAIL	STD	STANDARD
EOS	EDGE OF SLAB	STIF	STIFFENER
EQ	EQUAL, EQUALLY	STIR	STIRRUP
ES	EACH SIDE	STL	STEEL
EW	EACH WAY	STRUCT	STRUCTURAL
EXT	EXTERIOR	SYMM	SYMMETRICAL
F/F	FACE TO FACE	T	TREAD, THICKNESS
FA	FRAMING ANGLE	T&B	TOP & BOTTOM
FB	FLAT BAR	T&G	TONGUE & GROOVE
FDTN	FOUNDATION	TFJH	TOP-FLANGE JOIST HANGER
FIN	FINISH	THK	THICKNESS
FLG	FLANGE	THRU	THROUGH
FLR	FLOOR	TJ	TOOL JOINT
FMJH	FACE-MOUNT JOIST HANGER	TN	TOE NAIL
FN	FIELD NAIL	TOB	TOP OF BEAM
FOC	FACE OF CONCRETE/CURB	TOC	TOP OF CURB/CONCRETE
FOF	FACE OF FINISH	TOF	TOP OF FRAMING/FOOTING/FLOOR
FOM	FACE OF MASONRY	TOJ	TOP OF JOIST
FOS	FACE OF STUD	TOM	TOP OF MASONRY
FOW	FACE OF WALL	TOP	TOP OF PARAPET
FRMG	FRAMING	TOS	TOP OF STEEL
FRTW	FIRE RETARDANT TREATED WOOD	TOSP	TOP OF STRUCTURAL PANEL
FS	FAR SIDE	TOT	TOP OF TRUSS
FT	FEET, FOOT	TOW	TOP OF WALL
FTG	FOOTING	TS	TUBE STEEL
FURG	FURRING	TYP	TYPICAL
GA	GAGE	UC	UNDERCUT
GALV	GALVANIZED	UNO	UNLESS NOTED OTHERWISE
GLB	GLUED LAMINATED BEAM	UON	UNLESS OTHERWISE NOTED
GR	GRADE	VERT	VERTICAL
H	HIGH, HEIGHT	VIF	VERIFY IN FIELD
HDR	HEADER	VR	VAPOR RETARDER
HGR	HANGER	W	WIDE, WIDTH, WELD, W-SHAPE
HLDN	HOLD/DOWN	WI	WITH
HORIZ	HORIZONTAL	W/O	WITHOUT
HS	HIGH STRENGTH	WF	WIDE FLANGE
HSB	HIGH STRENGTH BOLT	WHS	WELDED HEADED STUD
HSS	HOLLOW STRUCTURAL SECTION	WL	WIND LOAD
HT	HEIGHT	WO	WHERE OCCURS
ICC	INTERNATIONAL CODE COUNCIL	WP	WORKING POINT
ID	INSIDE DIAMETER	WT	WEIGHT, W TEE-SHAPE
IJ	ISOLATION JOINT	WTS	WELDED THREADED STUD
INFO	INFORMATION	WWR	WELDED WIRE REINFORCEMENT
INT	INTERIOR	XS	EXTRA STRONG
		XXS	DOUBLE EXTRA STRONG

STRUCTURAL SYMBOLS LEGEND



MATERIAL SYMBOL LEGEND



STRUCTURAL GENERAL NOTES

- THE STRUCTURAL NOTES AND TYPICAL DETAILS, WHETHER SPECIFICALLY REFERENCED OR NOT, ARE GENERAL AND APPLY TO ALL CONSTRUCTION DOCUMENTS. PROVIDE ALL STRUCTURAL ELEMENTS INDICATED IN THE STRUCTURAL NOTES AND TYPICAL DETAILS AS REQUIRED TO CONFORM TO THE PROJECT AS INDICATED IN OTHER CONSTRUCTION DOCUMENTS. PROVIDE ALL STRUCTURAL ELEMENTS INDICATED IN OTHER CONSTRUCTION DOCUMENTS. STRUCTURAL CONSTRUCTION DOCUMENTS SHALL BE USED IN CONJUNCTION WITH ALL OTHER CONSTRUCTION DOCUMENTS. SEE OTHER CONSTRUCTION DOCUMENTS FOR COMPLETE PROJECT REQUIREMENTS.
- REFERENCES TO CONSTRUCTION DOCUMENTS ARE TO THE ENFORCEMENT AGENCY APPROVED DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT. SUPPLEMENTAL DOCUMENTS INCLUDING, BUT NOT LIMITED TO, ADDENDA, REVISED DRAWINGS, FIELD INSTRUCTIONS AND MODIFICATIONS PROVIDED FOR THIS PROJECT, SHALL ALSO BE CONSIDERED A CONSTRUCTION DOCUMENT. ALL REQUIREMENTS OF THE INITIALLY APPROVED CONSTRUCTION DOCUMENTS SHALL APPLY TO ANY SUPPLEMENTAL DOCUMENTS.
- WHERE THE CONSTRUCTION DOCUMENTS INDICATE TO NOTIFY THE STRUCTURAL ENGINEER, SUCH NOTIFICATION SHALL BE SUBMITTED IN WRITING WITH SUFFICIENT ALLOWANCE FOR A REASONABLE TIME PERIOD FOR REVIEW. DESIGN, ENFORCEMENT AGENCY APPROVAL AS REQUIRED AND WRITTEN RESPONSE SO AS NOT TO AFFECT THE CONSTRUCTION SCHEDULE. OBTAIN WRITTEN RESPONSE BEFORE PROCEEDING WITH THE AFFECTED WORK.
- CAREFULLY EXAMINE THE CONSTRUCTION DOCUMENTS AND NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITHIN THE STRUCTURAL CONSTRUCTION DOCUMENTS AND BETWEEN ALL OTHER CONSTRUCTION DOCUMENTS. DEVIATIONS SHALL NOT BE MADE TO THE REQUIREMENTS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS.
- PORTIONS OF THESE CONSTRUCTION DOCUMENTS ARE DIAGRAMMATIC ONLY. ITEMS INCLUDING, BUT NOT LIMITED TO, LOCATIONS, SIZES, QUANTITIES, ACCESSORIES AND CONNECTIONS ARE INDICATED IN A REPRESENTATIONAL MANNER AND MAY NOT BE COMPLETELY SHOWN. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLETE THE PROJECT AS REPRESENTED IN THE CONSTRUCTION DOCUMENTS.
- DIMENSIONS AND ELEVATIONS INDICATED ARE FOR STRUCTURAL ELEMENTS ONLY. ELEVATIONS SHOWN ARE BASED ON A REFERENCE ELEVATION. COORDINATE REFERENCE ELEVATIONS WITH ACTUAL ELEVATIONS. COORDINATE WITH ALL OTHER CONSTRUCTION DOCUMENTS FOR DIMENSIONS AND ELEVATIONS NOT INDICATED ON THE STRUCTURAL CONSTRUCTION DOCUMENTS. DO NOT SCALE DRAWINGS.
- CONSTRUCTION SHALL COMPLY WITH ALL BUILDING, HEALTH AND SAFETY STANDARDS, CODES AND REGULATIONS APPLICABLE TO THIS PROJECT. NOTHING IN THE CONSTRUCTION DOCUMENTS SHALL BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE STANDARDS, CODES AND REGULATIONS.
- REFERENCES TO STANDARDS, CODES AND REGULATIONS INCLUDING, BUT NOT LIMITED TO, ICC, IBC, CBC, ACI, ASTM, ASCE, ANSI, AWS, AISI, AISC AND AISC SHALL BE TO THE LATEST EDITION AS ADOPTED BY THE ENFORCEMENT AGENCY.
- FEATURES OF CONSTRUCTION INDICATED ARE TYPICAL. WHERE FEATURES ARE NOT FULLY OR SPECIFICALLY INDICATED BY THE CONSTRUCTION DOCUMENTS, THEIR CONSTRUCTION SHALL BE AS INDICATED FOR IDENTICAL OR SIMILAR FEATURES ELSEWHERE IN THE CONSTRUCTION DOCUMENTS. IF ANY CONDITIONS REQUIRE CONSTRUCTION DIFFERENT THAN THAT INDICATED ON THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER.
- STRUCTURAL ELEMENTS SHALL NOT BE REMOVED OR MODIFIED UNLESS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. IF STRUCTURAL ELEMENTS INTERFERE WITH THE WORK INDICATED IN ANY OTHER CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER.
- THE CONSTRUCTION DOCUMENTS AND THE DESIGNS INCORPORATED THEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT.
- STRUCTURAL ELEMENTS REPRESENTED IN THE CONSTRUCTION DOCUMENTS ARE INDICATED IN THEIR COMPLETE FORM. THE CONSTRUCTION DOCUMENTS DO NOT INDICATE MEANS, METHODS OR SEQUENCES OF CONSTRUCTION UNLESS SPECIFICALLY NOTED OTHERWISE. PROVIDE ALL MEASURES NECESSARY AS REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY AND TO ASSURE THE CORRECT AND ACCURATE STRUCTURE GEOMETRY AND STABILITY DURING CONSTRUCTION. MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, PROVIDING ADEQUATE FORMING, SHORING AND BRACING. MEASURES SHALL REMAIN IN PLACE UNTIL THE STRUCTURAL ELEMENTS AND ALL OTHER STRUCTURAL ELEMENTS USED TO SUPPORT THEM HAVE BEEN COMPLETED AND HAVE ATTAINED THEIR REQUIRED DESIGN STRENGTHS.
- PROTECT ALL ELEMENTS, WHETHER CONCEALED OR NOT, INCLUDING, BUT NOT LIMITED TO, PROPERTIES, STRUCTURES, FINISHES, STREETS, LANDSCAPING AND UTILITIES ADJACENT TO OR ON THIS SITE DURING THE CONSTRUCTION OF THIS PROJECT. SHOULD DAMAGE OCCUR TO ANY ELEMENTS, THEY SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER. CONTROL ITEMS SUCH AS, BUT NOT LIMITED TO, DUST, DIRT, WATER, FUMES, SMOKE, TRASH, NOISE AND VIBRATION CREATED AS A RESULT OF ANY OPERATIONS DURING CONSTRUCTION IN CONFORMANCE WITH APPLICABLE STANDARDS, CODES AND REGULATIONS.
- STRUCTURAL DESIGN LOADS, STRENGTHS, CAPACITIES AND CRITERIA INDICATED ON THE CONSTRUCTION DOCUMENTS ARE FOR THE COMPLETED STRUCTURE ONLY. THE USE OF ANY PART OR PARTS OF THE INCOMPLETE OR COMPLETED STRUCTURE FOR THE SUPPORT OF CONSTRUCTION ITEMS INCLUDING, BUT NOT LIMITED TO, OTHER PORTIONS OF THE STRUCTURE, PERSONNEL, MATERIALS AND EQUIPMENT IS LIMITED TO THE SAFE CAPACITY OF THE STRUCTURE AT THE TIME IT IS TO BE USED FOR SUCH SUPPORT. PROVIDE ALL MEASURES NECESSARY AS REQUIRED TO PREVENT OVERLOADING, EXCESSIVE MOVEMENT AND DAMAGE TO ANY PART OR PARTS OF THE STRUCTURE.
- IF SUBSTITUTIONS ARE REQUESTED FOR STRUCTURAL ELEMENTS INDICATED IN THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER. SUBMIT DATA AND DOCUMENTATION INCLUDING, BUT NOT LIMITED TO, COMPARATIVE QUALITY, SUITABILITY, PERFORMANCE, STRUCTURAL CAPACITY, ICC APPROVAL AND ENFORCEMENT AGENCY ACCEPTABILITY SUBSTANTIATING THE COMPLETE COMPLIANCE OF EACH PROPOSED SUBSTITUTION WITH THE CONSTRUCTION DOCUMENTS. ONLY ONE REQUEST FOR SUBSTITUTION WILL BE ALLOWED FOR EACH STRUCTURAL ELEMENT. SUBSTITUTIONS WILL NOT BE CONSIDERED WHEN SUBMITTALS ARE INCOMPLETE OR ACCEPTANCE WOULD REQUIRE REVISIONS TO THE CONSTRUCTION DOCUMENTS. PROVIDE OWNER REIMBURSEMENT FOR SERVICES REQUIRED TO OBTAIN ENFORCEMENT AGENCY APPROVAL OF SUBSTITUTIONS. IF A PROPOSED SUBSTITUTION SUBMITTAL IS NOT COMPLETE, NOT ACCEPTABLE TO THE STRUCTURAL ENGINEER, OR NOT APPROVED BY THE ENFORCEMENT AGENCY PROVIDE THE SPECIFIED ITEM AS INDICATED IN THE CONSTRUCTION DOCUMENTS. THE STRUCTURAL ENGINEER WILL BE THE SOLE JUDGE OF THE ACCEPTABILITY OF THE PROPOSED SUBSTITUTION VERSUS THE SPECIFIED ITEM. ACCEPTANCE OF A SUBSTITUTION SHALL NOT BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS.
- SCHEDULES, LEGENDS, ABBREVIATIONS, TYPICAL NOTES AND TYPICAL DETAILS ON THE STRUCTURAL CONSTRUCTION DOCUMENTS MAY REFERENCE STRUCTURAL ELEMENTS OR REQUIREMENTS NOT SPECIFICALLY INDICATED OR REQUIRED ELSEWHERE IN THE CONSTRUCTION DOCUMENTS.
- THE STRUCTURAL CONSTRUCTION DOCUMENTS ARE NOT COMPLETE AND READY FOR CONSTRUCTION UNTIL THEY ARE APPROVED BY THE ENFORCEMENT AGENCY AND SIGNED BY THE STRUCTURAL ENGINEER.

EXISTING CONSTRUCTION

- CAREFULLY EXAMINE THE CONSTRUCTION DOCUMENTS AND NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITHIN THE STRUCTURAL CONSTRUCTION DOCUMENTS AND BETWEEN ALL OTHER CONSTRUCTION DOCUMENTS AND THE EXISTING CONSTRUCTION.
- EXISTING CONSTRUCTION INDICATED IN THE CONSTRUCTION DOCUMENTS IS BASED UPON INFORMATION SHOWN ON AVAILABLE EXISTING DRAWINGS AND/OR LIMITED VISUAL OBSERVATIONS. THE EXISTING CONSTRUCTION MAY VARY FROM THAT INDICATED ON THE CONSTRUCTION DOCUMENTS. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLETE THE PROJECT AS REPRESENTED IN THE CONSTRUCTION DOCUMENTS.
- VERIFY ALL DIMENSIONS AND ELEVATIONS OF THE EXISTING CONSTRUCTION PRIOR TO STARTING CONSTRUCTION OR FABRICATION. DO NOT SCALE EXISTING DRAWINGS.
- PROVIDE AND MAINTAIN A COMPLETE AND LEGIBLE COPY OF THE EXISTING CONSTRUCTION DOCUMENTS AND MAKE THEM AVAILABLE FOR USE ON THE JOB SITE.
- EXISTING STRUCTURAL ELEMENTS SHALL NOT BE REMOVED OR MODIFIED UNLESS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. IF EXISTING STRUCTURAL ELEMENTS INTERFERE WITH THE WORK INDICATED IN ANY CONSTRUCTION DOCUMENT, OR IF UNCERTAIN THAT AN ELEMENT IS STRUCTURAL, NOTIFY THE STRUCTURAL ENGINEER.
- PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF THE EXISTING STRUCTURE AND SITE DURING DEMOLITION AND CONSTRUCTION. MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, PROVIDING ADEQUATE SHORING, BRACING, WEATHER PROTECTION AND DUST PROTECTION. THE REMOVAL OR MODIFICATION OF EXISTING STRUCTURAL ELEMENTS SHALL BE PERFORMED IN A MANNER TO PREVENT DAMAGE TO THOSE ELEMENTS TO REMAIN. SHOULD DAMAGE OCCUR TO ANY EXISTING ELEMENTS, THEY SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
- EXISTING FOUNDATIONS THAT MAY BE AFFECTED BY ANY EXCAVATIONS REQUIRED FOR THIS PROJECT SHALL BE UNDERPINNED, SHORED OR SUPPORTED ADEQUATELY TO PREVENT SETTLEMENT AND LATERAL MOVEMENT.
- IF EXISTING STRUCTURAL ELEMENTS NOT INDICATED FOR REPLACEMENT OR REPAIR ARE DISCOVERED TO BE DAMAGED OR DIFFERENT THAN INDICATED ON THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER. SUCH DAMAGE OR DIFFERENCE SHALL INCLUDE, BUT NOT BE LIMITED TO, DRY-ROT, WATER DAMAGE, INSECT DAMAGE, POOR WORKMANSHIP OR FIT-UP, BUCKLING, EXCESSIVE DEFLECTION, SAGGING, TWISTING, WARPING, AND DIFFERENT SIZE, ORIENTATION, GRADE, QUALITY OR MATERIAL.
- WHEN DRILLING/CORING HOLES AT EXISTING CONCRETE OR MASONRY, DO NOT DAMAGE EXISTING REINFORCING (REBAR OR PRE/POST-TENSIONED STRANDS) UNLESS SPECIFICALLY NOTED OTHERWISE. LOCATE ALL EXISTING REINFORCING AT AFFECTED AREAS USING NON-DESTRUCTIVE MEANS PRIOR TO DRILLING/CORING HOLES. MAINTAIN A MINIMUM CLEARANCE OF TWO INCHES BETWEEN THE REINFORCEMENT AND THE HOLE.
- WHEN SAW-CUTTING EXISTING STRUCTURAL ELEMENTS, DO NOT OVERCUT. INTERSECTING SAW-CUTS SHALL NOT OVERLAP. SAW-CUTS MAY INTERSECT AT SMALL DIAMETER CORED/DRILLED HOLES. SAW-CUTS SHALL BE TANGENT TO AND SHALL NOT EXTEND BEYOND CORED/DRILLED HOLES. CAREFULLY REMOVE REMAINING MATERIAL TO EDGE OF SAW-CUT LINE.
- ALL CONSTRUCTION INDICATED IS NEW UNLESS SPECIFICALLY DENOTED AS EXISTING.

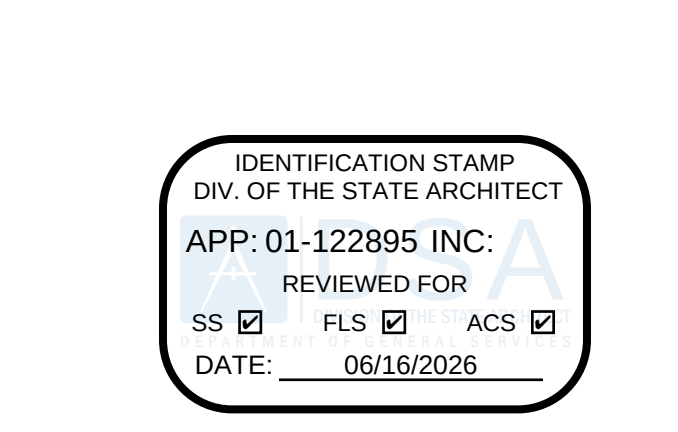
STRUCTURAL DESIGN CRITERIA

- BUILDING CODE: 2025 CBC
- ENFORCEMENT AGENCY: DIVISION OF THE STATE ARCHITECT (DSA)
- A. VERTICAL DESIGN CRITERIA (UNLESS OTHERWISE SHOWN OR NOTED)
- ROOF LIVE LOADS:
- TYP ROOF AREA 20 PSF (REDUCIBLE)
- FLOOR LIVE LOADS:
- OFFICE/CLASSROOMS (W/ 15 PSF PARTITION LL) 50 PSF (REDUCIBLE)
 - CORRIDORS ABOVE FIRST FLOOR 80 PSF (REDUCIBLE)
 - FIRST FLOOR CORRIDORS 100 PSF (REDUCIBLE)
- SPECIAL LOADS: N/A
- B. LATERAL DESIGN CRITERIA
- SEISMIC SITE CRITERIA: SS=2.13, S1=0.81, SDS=1.50, SD1=1.08, SITE CLASS: DEFAULT
- BUILDING CRITERIA: EXISTING STUDENT SERVICES AND ADMIN BUILDING
- SEISMIC:
- RISK CATEGORY= III
 - IMPORTANCE FACTOR, I=1.25
 - SEISMIC DESIGN CATEGORY = E
 - SEISMIC FORCE RESISTING SYSTEM: SPECIAL STEEL MOMENT FRAME
 - RESPONSE MODIFICATION FACTOR, R = 8.0

STRUCTURAL SHEET INDEX

SHEET NUMBER	SHEET NAME
S-001	GENERAL NOTES
S-011	TYPICAL NOTES
S-111	PLAN - FOUNDATION - LEVEL 1
S-551	DETAILS - TYPICAL STRUCTURAL STEEL BEAMS
S-901	EQUIP ANCHORAGE DETAILS

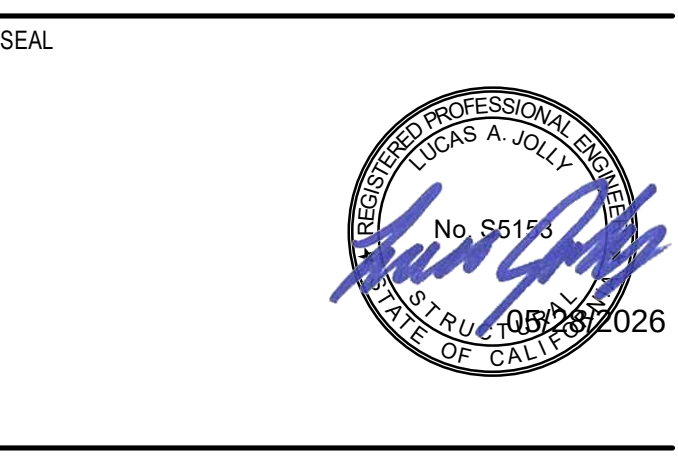
SHEET COUNT: 5



LIONAKIS

2025 Nineteenth Street
Sacramento, CA 95818
P 916.558.1900
www.lionakis.com

CONSULTANT



PROJECT
**PATHWAYS SUPPORT CENTER
RENOVATION**

3000 CAMPUS HILL DR
LIVERMORE, CA 94551

CLIENT
CHABOT-LAS POSITAS COMMUNITY COLLEGE
DISTRICT
3000 CAMPUS HILL DRIVE LIVERMORE, CA 94551

ISSUED	MARK	DATE	DESCRIPTION
		02/19/2026	DSA SUBMITTAL
		06/02/2026	DSA BACKCHECK

MANAGEMENT	
LIONAKIS PROJECT NO:	024003
CLIENT PROJECT NO:	
AGENCY	

GENERAL NOTES

IF THIS SHEET IS NOT 30"X42" IT IS A REDUCED PRINT - SCALE ACCORDINGLY

0 1/4" 1/2" 1"

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STRUCTURAL SUBMITTALS

- SUBMITTALS INCLUDE, BUT ARE NOT LIMITED TO, SHOP DRAWINGS, FABRICATION DRAWINGS, PLACEMENT DRAWINGS, CALCULATIONS, DESIGNS, TEST DATA, PRODUCT DATA, SAMPLES, CERTIFICATIONS AND REPORTS AS REQUIRED BY THE CONSTRUCTION DOCUMENTS.
- SUBMITTALS, AS A MINIMUM, SHALL CONSIST OF TWO (2) COPIES OF EACH SHEET.
- SUBMITTALS SHALL NOT CONTAIN NOR CONSIST OF REPRODUCTIONS OF THE CONSTRUCTION DOCUMENTS. SUBMITTALS CONTAINING REPRODUCTIONS OF ANY PORTION OF THE CONSTRUCTION DOCUMENTS ARE SUBJECT TO REJECTION.
- EACH SUBMITTAL SHALL HAVE A COVER SHEET IDENTIFYING THE CONTENTS BY SPECIFICATION SECTION AND LISTING EACH ITEM AND SHEET NUMBER. EACH SUBMITTAL SHALL HAVE A UNIQUE IDENTIFICATION NUMBER.
- PRIOR TO SUBMISSION TO THE STRUCTURAL ENGINEER, STAMP SUBMITTALS INDICATING THEY HAVE BEEN REVIEWED AND APPROVED FOR COMPLETENESS AND CONFORMANCE WITH THE INTENT OF THE CONSTRUCTION DOCUMENTS. SUBMITTALS THAT ARE DETERMINED TO BE INCOMPLETE, IN THE HAND OF THE STRUCTURAL ENGINEER, WILL BE RETURNED WITHOUT REVIEW SO THEY CAN BE COMPLETED. THE STRUCTURAL ENGINEER SHALL NOT BE REQUIRED TO REVIEW PARTIAL SUBMISSIONS OR THOSE FOR WHICH SUBMISSIONS OF CORRELATED ITEMS HAVE NOT BEEN RECEIVED.
- PRIOR TO SUBMISSION TO THE STRUCTURAL ENGINEER, THE OWNER'S TESTING LABORATORY SHALL STAMP THE SUBMITTALS INDICATING THEY HAVE BEEN REVIEWED AND APPROVED FOR COMPLETENESS AND CONFORMANCE WITH THE INTENT OF THE CONSTRUCTION DOCUMENTS.
 - CONCRETE MIX DESIGNS AND SUBSTITUTING TEST DATA
 - MASONRY GROUT MIX DESIGNS AND SUBSTITUTING TEST DATA
 - WELDING PROCEDURE SPECIFICATIONS
- SUBMITTALS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER PRIOR TO UTILIZATION, INSTALLATION, FABRICATION OR CONSTRUCTION OF ITEMS CONTAINED WITHIN THE SUBMITTALS.
- SUBMITTALS SHALL BE DELIVERED TO THE STRUCTURAL ENGINEER TO ALLOW SUFFICIENT TIME, IN THE STRUCTURAL ENGINEER'S JUDGMENT, FOR A REASONABLE PERIOD FOR ADEQUATE REVIEW, ENFORCEMENT AGENCY APPROVAL AS REQUIRED AND RESPONSE SO AS NOT TO AFFECT THE CONSTRUCTION SCHEDULE. ALLOW THE STRUCTURAL ENGINEER THE GREATER SUBMITTAL REVIEW PERIOD OF TEN (10) WORK DAYS, OR FIVE (5) WORK DAYS FOR EACH 100 SHEETS, OR PORTION THEREOF, FOR EACH SUBMITTAL. SUBMITTAL REVIEW PERIOD COMMENCES THE NEXT WORK DAY AFTER SUBMITTAL RECEIPT BY THE STRUCTURAL ENGINEER. CONCURRENT SUBMITTALS OF MULTIPLE SUBMITTALS SHALL BE REVIEWED IN PARALLEL. REVIEWED IN THEIR ENTIRETY AS ONE SUBMITTAL SUBJECT TO THE REVIEW PERIOD LIMITATION ABOVE. SCHEDULE SUBMITTAL REVIEWS AND CONSTRUCTION ACCORDINGLY.

- REVIEW OF SUBMITTALS BY THE STRUCTURAL ENGINEER WILL INCLUDE CHECKING FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONSTRUCTION DOCUMENTS. IT WILL NOT INCLUDE REVIEW OF THE ACCURACY OR COMPLETENESS OF ITEMS SUCH AS QUANTITIES, DIMENSIONS, WEIGHTS OR GAUGES, FABRICATION PROCESSES, CONSTRUCTION MEANS OR METHODS, COORDINATION WITH THE WORK OF OTHER TRADES, OR CONSTRUCTION SAFETY PRECAUTIONS. REVIEW OF A SPECIFIC ITEM SHALL NOT INDICATE THAT THE STRUCTURAL ENGINEER HAS REVIEWED THE ENTIRE ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS NOT BROUGHT TO THE STRUCTURAL ENGINEER'S ATTENTION IN WRITING.
- SUBMITTALS PROCESSED BY THE STRUCTURAL ENGINEER ARE NOT CHANGE ORDERS.
- SUBMITTALS THAT WILL REQUIRE ADDITIONAL REVIEW, IN THE STRUCTURAL ENGINEER'S JUDGMENT, WILL BE MARKED "RESUBMIT". THE SUBMITTAL SHALL BE REVISED AND RESUBMITTED FOR RE-REVIEW AND IS SUBJECT TO ALL THE REQUIREMENTS OF THE INITIAL SUBMITTAL. PROVIDE OWNER REIMBURSEMENT FOR STRUCTURAL ENGINEER COSTS INCURRED TO RE-REVIEW SUBMITTALS.
- SUBMITTALS THAT HAVE BEEN REVIEWED AND RETURNED BY THE STRUCTURAL ENGINEER REGARDLESS OF THE REASON FOR THE RETURN SHALL NOT BE CONSIDERED FOR PERMIT WORK NOT CONFORMING TO THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS.
- THE MINIMUM REQUIRED STRUCTURAL SUBMITTALS INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING MARKED ITEMS:
 - FILE FABRICATION DRAWINGS AND CALCULATIONS
 - CONCRETE MIX DESIGNS AND SUBSTITUTING TEST DATA
 - CARBON REINFORCING PLACEMENT DRAWINGS
 - CONCRETE PRODUCT CERTIFICATION AND DATA SHEETS
 - CONCRETE SLAB JOINT LAYOUT
 - MASONRY REINFORCING PLACEMENT DRAWINGS
 - MASONRY GROUT MIX DESIGNS AND SUBSTITUTING TEST DATA
 - MASONRY MORTAR MIX DESIGNS
 - MASONRY PRODUCT CERTIFICATION AND DATA SHEETS
 - STRUCTURAL STEEL SHOP DRAWINGS
 - STEEL DECK PLACEMENT DRAWINGS AND DATA SHEETS
 - WELDING PROCEDURE SPECIFICATIONS
 - METAL-PLATE CONNECTED WOOD TRUSS PLACEMENT DRAWINGS AND CALCULATIONS
 - WOOD JOIST PLACEMENT DRAWINGS AND CALCULATIONS
 - METAL WEB WOOD JOIST PLACEMENT DRAWINGS AND CALCULATIONS
 - GLUED-LAMINATED TIMBER FABRICATION AND PLACEMENT DRAWINGS AND CERTIFICATIONS
 - PRE-ENGINEERED LUMBER CERTIFICATIONS AND DATA SHEETS
 - OPEN WEB STEEL JOIST PLACEMENT DRAWINGS AND CALCULATIONS
 - PRE-ENGINEERED STEEL STAIR SHOP DRAWINGS AND CALCULATIONS
 - COLD-FORMED STEEL FRAMING PRODUCTS, ACCESSORIES, DATA SHEETS AND CALCULATIONS

STRUCTURAL OBSERVATION

- STRUCTURAL OBSERVATION IS THE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM BY THE STRUCTURAL OBSERVER (THE STRUCTURAL ENGINEER OR OWNERS DESIGNATED REPRESENTATIVE WHEN DELEGATED BY THE STRUCTURAL ENGINEER) FOR GENERAL CONFORMANCE TO THE ENFORCEMENT AGENCY APPROVED CONSTRUCTION DOCUMENTS AT SIGNIFICANT CONSTRUCTION STAGES AND AT COMPLETION OF THE STRUCTURAL SYSTEM.
- STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED BY THE ENFORCEMENT AGENCY OR BY OTHER SECTIONS OF THE BUILDING CODE. REQUIRED INSPECTIONS DO NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR STRUCTURAL OBSERVATION.
- STRUCTURAL OBSERVATION DOES NOT INCLUDE THE SUPERVISION OF CONSTRUCTION FOR PROPER EXECUTION OF THE WORK SHOWN IN THE CONSTRUCTION DOCUMENTS.
- THE FOLLOWING COMPLETED CONSTRUCTION STAGES MARKED ARE SUBJECT TO STRUCTURAL OBSERVATION IF DEEMED NECESSARY DURING CONSTRUCTION BY THE STRUCTURAL OBSERVER:
 - FOUNDATION EXCAVATIONS AND REINFORCEMENT PRIOR TO CONCRETE PLACEMENT
 - FORMWORK CONSTRUCTION AND REINFORCEMENT PRIOR TO CONCRETE PLACEMENT
 - CONCRETE TILT-UP PANEL INSTALLATION
 - CONCRETE PRE-CAST ELEMENT PANEL INSTALLATION
 - MASONRY INSTALLATION AND REINFORCEMENT PRIOR TO GROUT PLACEMENT
 - STEEL FRAMING ERECTION
 - STEEL DECK INSTALLATION AND REINFORCEMENT PRIOR TO CONCRETE FILL PLACEMENT
 - STEEL DECK INSTALLATION ON FRAMING
 - WOOD FRAMING ERECTION
 - WOOD STRUCTURAL PANEL INSTALLATION ON FRAMING
 - WOOD HARDWARE AND CONNECTOR INSTALLATION ON STRUCTURAL FRAMING
 - COLD-FORMED STEEL FRAMING ERECTION
 - PRE-FABRICATED STRUCTURAL ELEMENT INSTALLATION
 - PRIOR TO THE CLOSING OF ANY PHASE
 - STRUCTURAL SYSTEM COMPLETION
- NOTIFY THE STRUCTURAL OBSERVER 2 WORK DAYS MINIMUM IN ADVANCE OF THE COMPLETION OF THE ABOVE CONSTRUCTION STAGES TO FACILITATE STRUCTURAL OBSERVATIONS BY THE STRUCTURAL OBSERVER. STRUCTURAL OBSERVATION SHALL BE SCHEDULED TO ALLOW ADEQUATE TIME TO PERFORM ALL CORRECTIVE WORK REQUIRED BY OBSERVATION REPORT.
- COORDINATE WITH THE STRUCTURAL OBSERVER SO THAT THE WORK FOR THE CONSTRUCTION STAGES NOTED ABOVE IS ACCESSIBLE AND EXPOSED FOR STRUCTURAL OBSERVATION PURPOSES. REMOVE AND/OR REPLACE MATERIALS AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER TO ALLOW STRUCTURAL OBSERVATION.
- DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS NOTED DURING STRUCTURAL OBSERVATIONS SHALL BE CORRECTED AT NO ADDITIONAL COST TO THE OWNER.
- PROVIDE OWNER REIMBURSEMENT FOR DESIGN PROFESSIONAL COSTS INCURRED TO CORRECT DEVIATIONS AND TO MAKE REVISIONS TO THE CONSTRUCTION DOCUMENTS, INCLUDING OBTAINMENT OF ENFORCEMENT AGENCY APPROVAL AS REQUIRED.
- CORRECTIVE WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE ENFORCEMENT AGENCY APPROVED CONSTRUCTION DOCUMENTS AND THE BUILDING CODE.
- AT THE COMPLETION OF THE WORK INCLUDED IN THE CONSTRUCTION DOCUMENTS, THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE ENFORCEMENT AGENCY A WRITTEN STATEMENT THAT THE STRUCTURAL OBSERVATIONS HAVE BEEN MADE AND IDENTIFY ANY REPORTED DEFICIENCIES THAT, TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED.

STRUCTURAL TESTING & INSPECTION

- SPECIAL INSPECTION IS DEFINED AS THE INSPECTION OF THE MATERIALS, INSTALLATION, FABRICATION, ERECTION OR PLACEMENT OF COMPONENTS AND CONNECTIONS REQUIRING SPECIAL EXPERTISE TO ENSURE COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS.
- THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PERFORM INSPECTIONS DURING CONSTRUCTION FOR ITEMS NOTED IN USA FORM 103.
- THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE ENFORCEMENT AGENCY AND THE ARCHITECT/STRUCTURAL ENGINEER, FOR THE INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
- SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE ENFORCEMENT AGENCY, OWNER, CONTRACTOR AND ARCHITECT/STRUCTURAL ENGINEER. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS.
- DISCREPANCIES IN THE INSPECTED WORK SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THEY ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENFORCEMENT AGENCY, OWNER, CONTRACTOR AND ARCHITECT/STRUCTURAL ENGINEER PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK.
- A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED TO THE ENFORCEMENT AGENCY, OWNER, CONTRACTOR AND ARCHITECT/STRUCTURAL ENGINEER AT THE COMPLETION OF THE WORK INCLUDED IN THE CONSTRUCTION DOCUMENTS.
- SCHEDULE AND COORDINATE ALL STRUCTURAL TESTS AND SPECIAL INSPECTIONS. NOTIFY THE SPECIAL INSPECTOR 48 HOURS MINIMUM PRIOR TO PERFORMING ANY WORK REQUIRING THE SPECIAL INSPECTOR'S PRESENCE. COORDINATE WITH THE SPECIAL INSPECTOR SO THAT THE WORK REQUIRING THE SPECIAL TESTS AND INSPECTIONS CAN BE ACCESSED AND EXPOSED FOR TESTING AND INSPECTION PURPOSES. REMOVE AND/OR REPLACE MATERIALS AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER TO ALLOW TESTS AND INSPECTIONS.

STRUCTURAL STEEL

- THE DESIGN, FABRICATION AND ERECTION OF STEEL SHALL BE IN ACCORDANCE WITH AISC 360 AND AISC 341 INCLUDING ANY ENFORCEMENT AGENCY AMENDMENTS.
- STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING, UNO.
 - STEEL PRODUCT
 - W & WT SHAPES
 - HP SHAPES
 - M, MT, S & ST SHAPES
 - CHANNELS (C & MC)
 - ANGLES
 - PLATES & BARS
 - RODS, PLAIN & ALL-THREADED
 - RAISED-PATTERN FLOOR PLATE
 - PIPES
 - ROUND HSS
 - RECTANGULAR & SQUARE HSS
 - HIGH-STRENGTH BOLT, A325, TYPE 1
 - TWIST-OFF-TYPE TENSION-CONTROL BOLTS
 - BOLTS
 - WASHERS
 - PLATE WASHERS
 - HARDENED WASHERS
 - DIRECT-TENSION INDICATOR WASHERS
 - NUTS FOR HS & TENSION CONTROL BOLTS
 - NUTS FOR BOLTS & RODS
 - ANCHOR BOLTS & RODS (HEADED OR THREADED & NUTTED)
 - WELDED HEADED STUDS, SHEAR STUDS, & WELDED THREADED STUDS
 - DEFORMED BAR ANCHORS
 - WELD FILLER METAL
 - TURNBUCKLES
 - CLEAVES, CLEVIS PINS, COTTER PINS
 - EYE-UTS & EYEBOLTS
 - WEEVE NUTS
 - RECESSED NUTS & PINS
 - COUPLING NUTS
- EXPOSED INTERIOR STEEL SHALL RECEIVE ONE COAT OF PRIMER PAINT, UNO. DO NOT PAINT SURFACES IN DIRECT CONTACT WITH CONCRETE OR MASONRY, WHERE FIELD WELDING IS REQUIRED, WHERE FIRE-PROOFING IS REQUIRED OR CONTACT SURFACES OF STEEL-TO-STEEL, AND DECK-TO-STEEL CONNECTIONS. CONCEALED STEEL DOES NOT REQUIRE PAINT, UNO.
- EXPOSED EXTERIOR STEEL & FASTENERS SHALL BE HOT DIP GALVANIZED, UNO. PROVIDE FILL AND VENT HOLES AT ENCLOSED SPACES OF HOLLOW PIECES. SEAL HOLES WATER-TIGHT AFTER GALVANIZING. PROVIDE DRAIN HOLES AS REQUIRED AT SOLD PIECES. HOLE SIZES AND LOCATIONS SHALL NOT DETRIMENTALLY AFFECT THE PIECES STRUCTURAL CAPACITY AND ARE SUBJECT TO THE STRUCTURAL ENGINEER'S REVIEW. WELDS PERFORMED ON GALVANIZED STEEL AND ANY AREAS OF DAMAGED GALVANIZING SHALL BE COATED WITH A ZINC-RICH PAINT. CRITERIA:
 - FABRICATION, HANDLING, AND SHIPPING SHALL EMPLOY SPECIAL CARE TO ENSURE ACCEPTABLE FINISHED APPEARANCE.
 - WELDS SHALL BE GROUNDED SMOOTH. GROOVE WELDS SHALL BE MADE FLUSH (+ 1/16", -0"). OVERSIZE WELDS AS REQUIRED.
 - FIELD WELDING AIDS AND ERECTION AIDS SHALL BE REMOVED AND STEEL SHALL BE REPAIRED AND GROUNDED SMOOTH.
 - SHOP PIERCE MARKS AND MILL MARKS SHALL BE LOCATED SUCH THAT THEY ARE FULLY HIDDEN IN THE FINAL STRUCTURE OR ARE MADE WITH SUCH MEDIA TO PERMIT EASY REMOVAL AFTER ERECTION.
 - GRIND EDGES OF SHEARED, PUNCHED OR FLAME CUT STEEL IN AREAS WITHIN REACH TO TOUCH BY THE PUBLIC AND BUILDING OCCUPANTS.
 - ALIGN AND ORIENT BOLTED CONNECTIONS TO BE UNIFORM AND CONSISTENT.
- PROVIDE CONCRETE / MASONRY COVER AT STEEL BELOW GRADE. STEEL EMBEDDED IN CONCRETE CAST AGAINST EARTH SHALL HAVE 3" MIN COVER. STEEL EMBEDDED IN FORMED CONCRETE OR MASONRY SHALL HAVE 2" MIN COVER.
- WELDING MATERIALS & PROCEDURES SHALL CONFORM WITH AWS D1.1. AND AWS D1.8 WHERE APPLICABLE.
- MINIMUM SIZE OF FILLET WELDS: 1/8" FOR MATERIAL 1/8" TO 1/4" THICK, 3/16" FOR MATERIAL OVER 1/4" TO 1/2" THICK, 1/4" FOR MATERIAL OVER 1/2" TO 3/4" THICK, AND 5/16" FOR MATERIAL OVER 3/4" THICK. MATERIAL THICKNESS IS FOR THINNER MATERIAL JOINED. SINGLE PASS WELDS MUST BE USED FOR SIZES SHOWN. SIZE OF WELD IS LEG DIMENSION OF FILLET. MINIMUM EFFECTIVE LENGTH OF FILLET WELDS SHALL BE NOT LESS THAN FOUR TIMES THE FILLET SIZE. MINIMUM EFFECTIVE LENGTH OF INTERMITTENT FILLET WELDS SHALL BE 12".
- WHERE "ALL AROUND" FILLET WELDS ARE INDICATED AT CONCEALED/NON-EXPOSE



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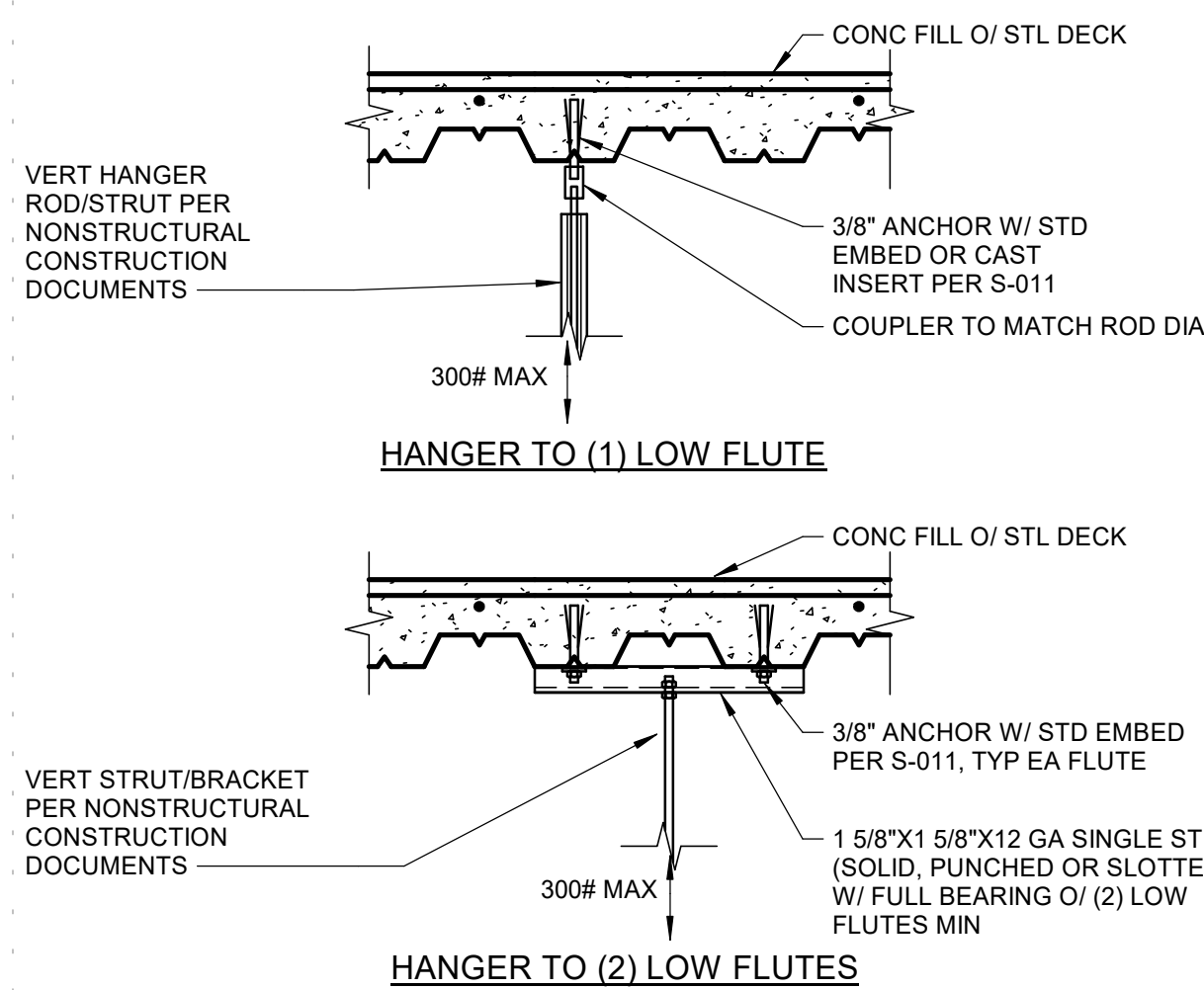
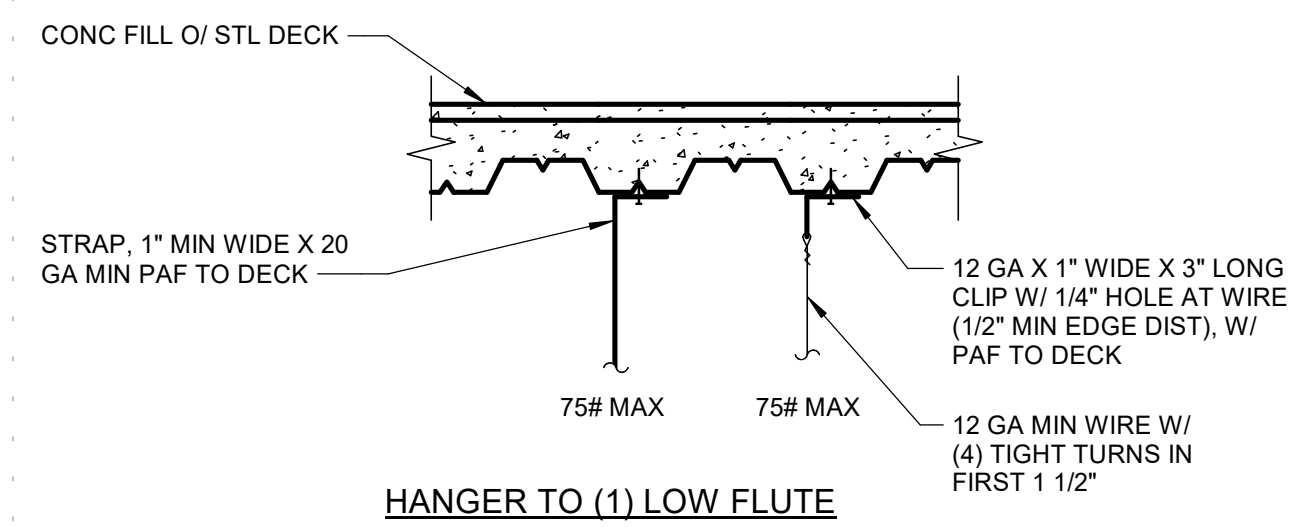
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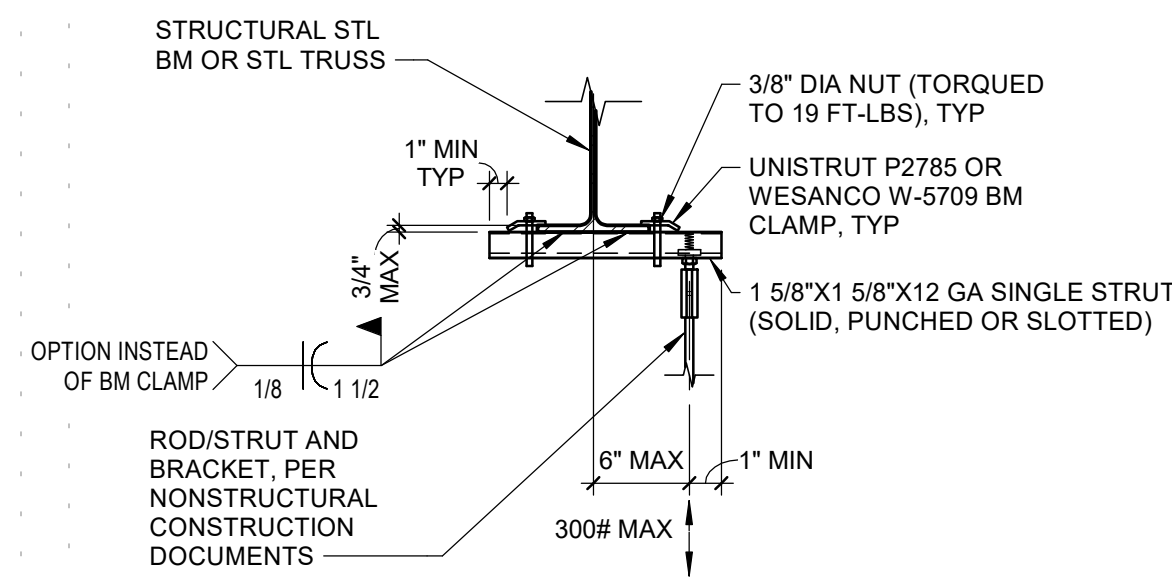
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- NOTES:
- ONE HANGER MAX PER DUCK FLUTE WITHIN A SINGLE DECK SPAN UNLESS TOTAL LOAD FROM ALL HANGERS DOES NOT EXCEED MAX LOAD LISTED.
 - SEE NONSTRUCTURAL CONSTRUCTION DOCUMENTS FOR SPACING OF ASSEMBLIES, THREADED RODS AND ROD STIFFENERS.

2 TYP HANGER TO CONC O/ STL DECK
1\"/>

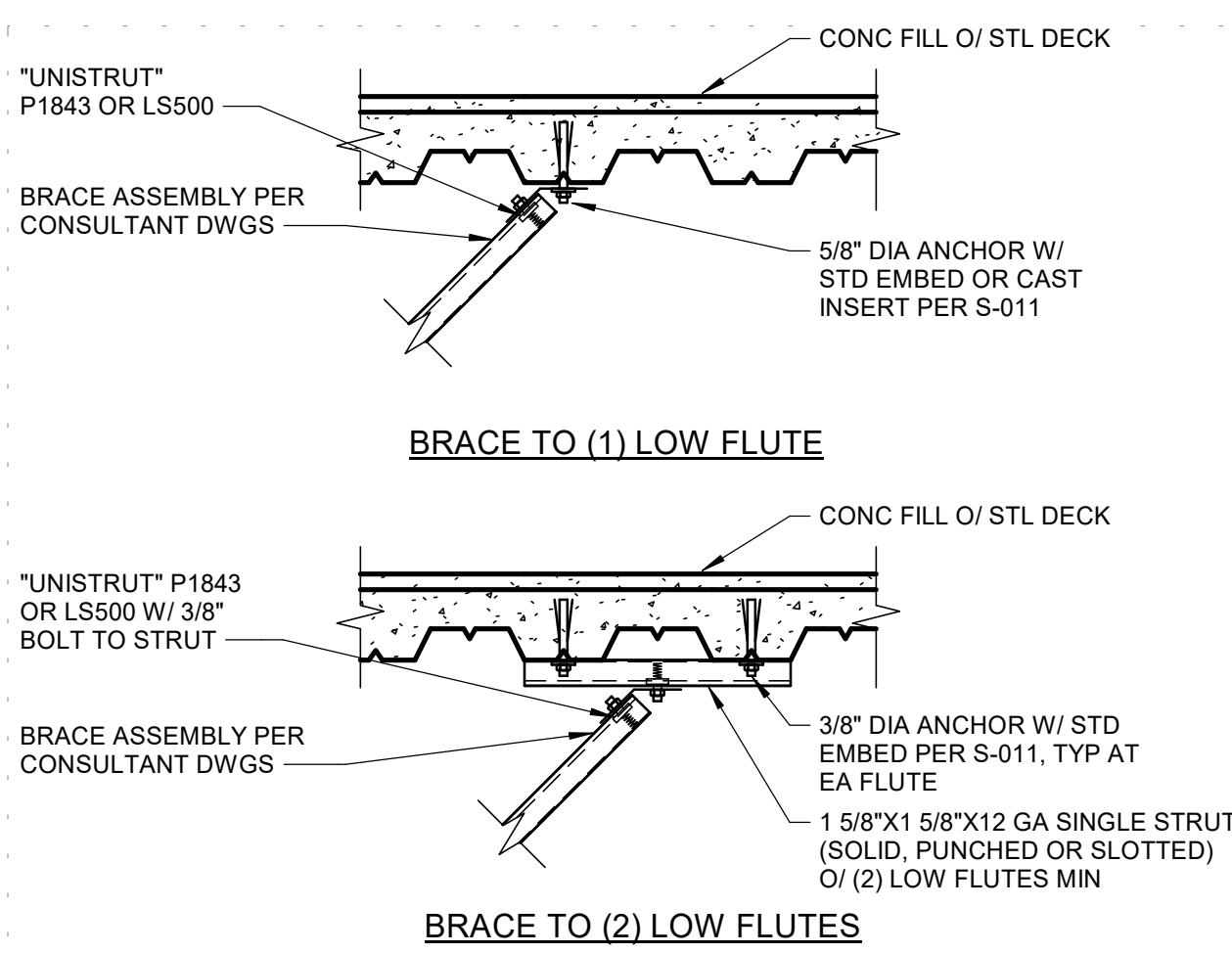
S-901/02
24/0209, Q1



- NOTES:
- ONE HANGER MAX PER BEAM WITHIN A SINGLE BEAM SPAN UNLESS TOTAL LOAD FROM ALL HANGERS DOES NOT EXCEED MAX LOAD LISTED.
 - SEE NONSTRUCTURAL CONSTRUCTION DOCUMENTS FOR SPACING OF ASSEMBLIES, THREADED RODS AND ROD STIFFENERS.

6 TYP HANGER TO STEEL BM
1\"/>

S-901/06
23/1110, Q1



- NOTES:
- SEE OTHER CONSULTANT DRAWINGS FOR SPACING AND ORIENTATION OF ASSEMBLIES.
 - ACCEPTABLE ANGLE OF BRACE TO HORIZONTAL IS 30 DEG TO 60 DEG.

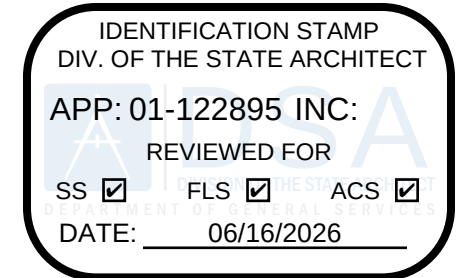
10 TYP BRACE TO CONC O/ STL DECK
1\"/>

S-901/10
24/0209, Q1

EQUIPMENT ANCHORAGE NOTES

170828, Q2

- THESE DETAILS ARE INTENDED FOR ATTACHMENT OF NONSTRUCTURAL EQUIPMENT AND COMPONENTS TO THE PRIMARY STRUCTURE. REFER TO NONSTRUCTURAL CONSTRUCTION DRAWINGS FOR REQUIRED ANCHORAGE TYPE, SPACING, AND GENERAL CONFIGURATION.
- THESE DETAILS ARE NOT APPLICABLE FOR FIRE SPRINKLER CONNECTIONS UNLESS SPECIFICALLY NOTED.
- CONNECTIONS SHOWN FOR "PARALLEL" CONDITIONS APPLY TO CONDITIONS WITHIN 30 DEGREES OF PARALLEL. ALL OTHER CONDITIONS TO UTILIZE "PERPENDICULAR" CONDITIONS.
- UNISTRUT PRODUCTS MAY BE SUBSTITUTED WITH EQUIVALENT PRODUCTS PER TOLCO OR B-LINE.



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MANAGEMENT

LIONAKIS PROJECT NO: 024003
CLIENT PROJECT NO:

AGENCY

TITLE
EQUIP ANCHORAGE
DETAILS

SHEET

S-901

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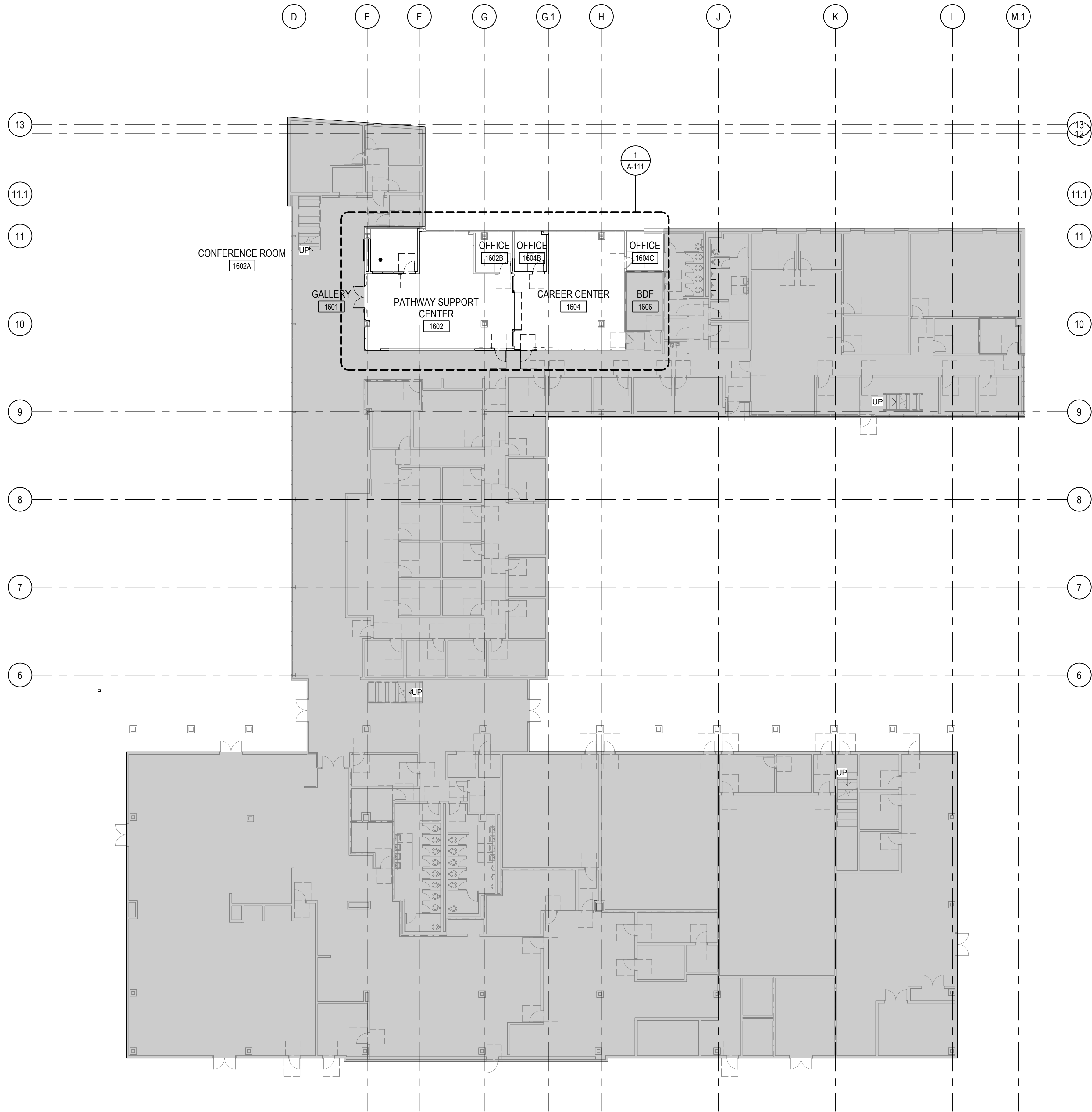
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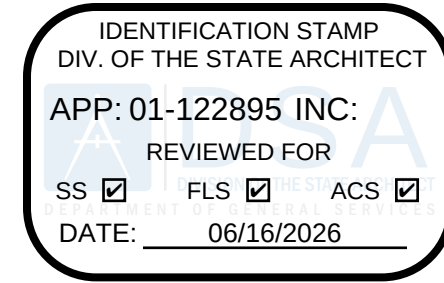
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1 FLOOR PLAN - LEVEL 1 - BLDG 1600 OVERALL
SCALE: 1/16" = 1'-0"



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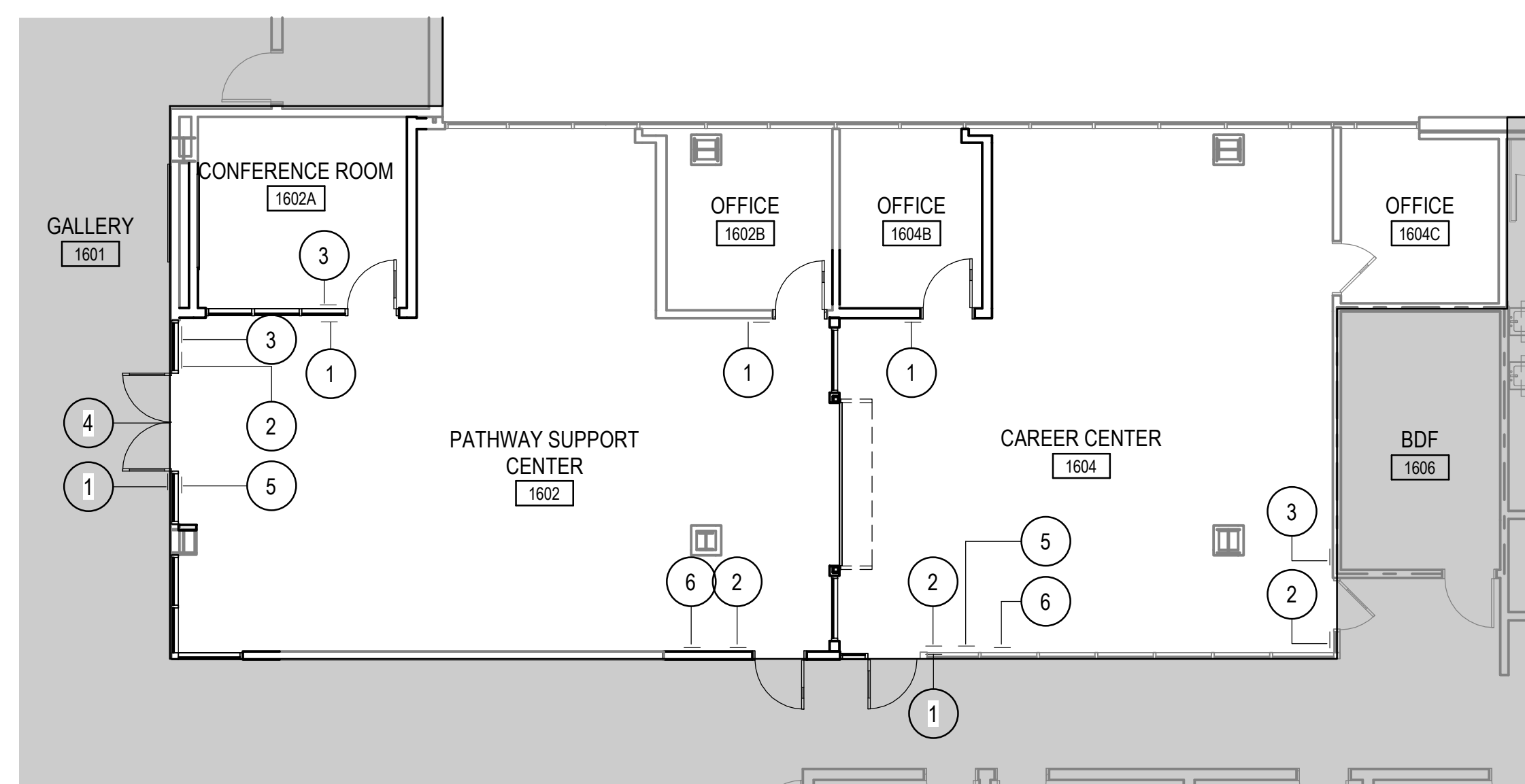
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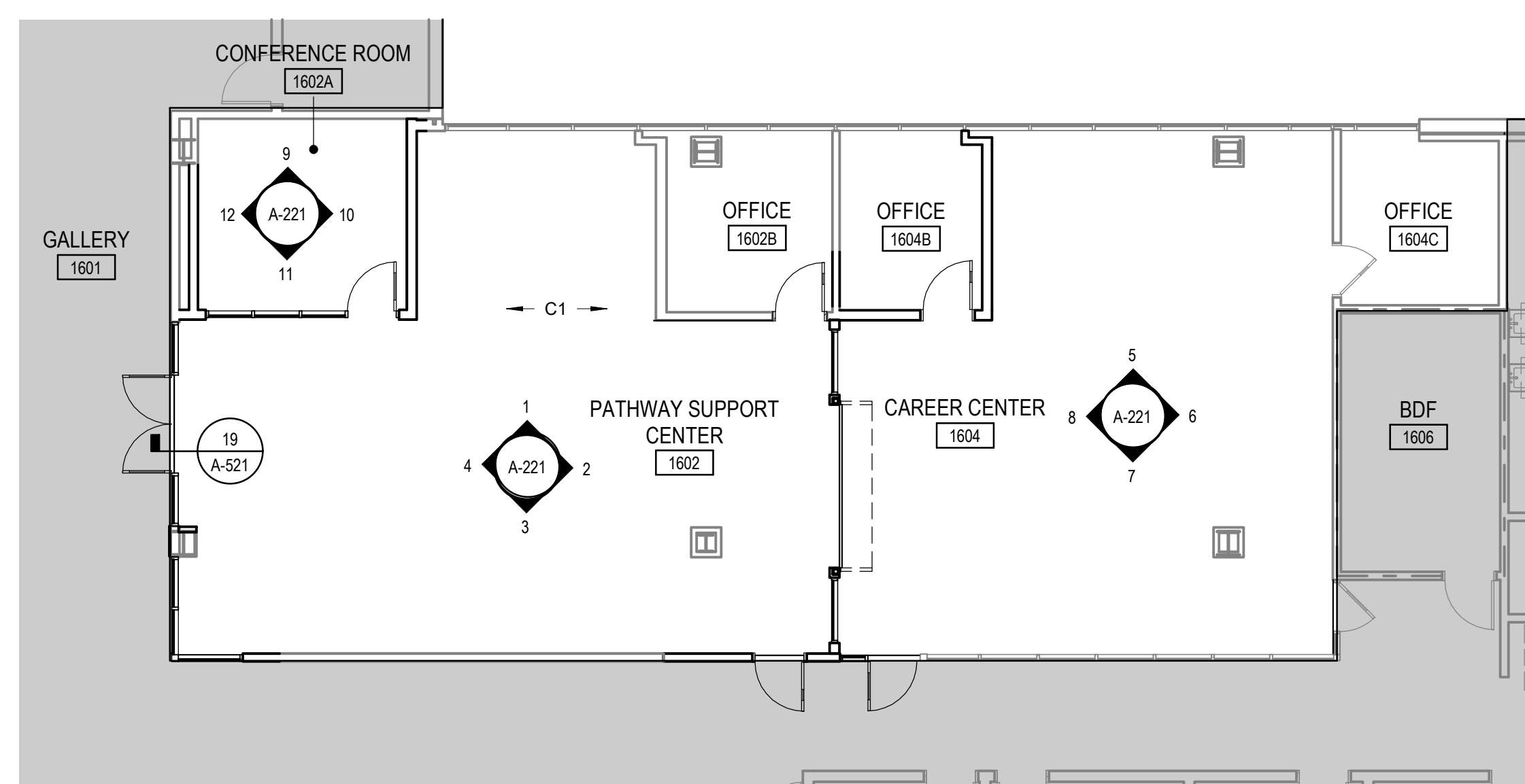
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TITLE
FLOOR PLAN - BUILDING
1600

SHEET
A-110



1 PARTIAL FLOOR PLAN - LEVEL 1 SIGNAGE PLAN
SCALE 1/8" = 1'-0"



2 PARTIAL FLOOR PLAN - LEVEL 1 FINISH
SCALE 1/8" = 1'-0"

GENERAL NOTES

1. ALL INTERIOR FINISH MATERIALS SHALL COMPLY WITH CBC CHAPTER 8 (INT FINISHES).
2. ALL INTERIOR FLOOR FINISHES IN ALL AREAS SHALL COMPLY WITH ASTM E 648.
3. ALL INTERIOR FLOOR PREPARATION TO COMPLY WITH SPECIFICATIONS.
4. CHANGE IN INTERIOR FLOOR MATERIAL SHALL OCCUR AT CENTERLINE OF DOOR, UNO.
5. REFER TO INTERIOR FINISH SCHEDULE / LEGEND ON SHEET **A-641** FOR FINISH CLARIFICATION
6. REFER TO SHEET **A-521** FOR ALL FLOOR FINISH TRANSITIONS.
7. CONTRACTOR TO SUBMIT ALL FLOORING PATTERN LAYOUTS, FLOOR SEAMING, AND TILE PATTERN AS SHOP DRAWINGS FOR ARCHITECT REVIEW.

FLOOR FINISH LEGEND

-  FOR ALL UNHATCHED AREAS, SEE ROOM FINISH SCHEDULE FOR FINISH CLARIFICATION
-  DIRECTION OF FINISH PATTERN INSTALLATION

GENERAL SIGNAGE NOTES

1. ROOM NAMES AND NUMBERS SHOWN ON FLOOR PLANS ARE FOR CONSTRUCTION DOCUMENT REFERENCE ONLY. CONTRACTOR TO PROVIDE COMPLETE SHOP DRAWINGS OF ACTUAL BUILDING ROOM USE SIGNAGE DESIGNATION FOR DISTRICT REVIEW AND APPROVAL.
2. PROVIDE ASSISTIVE LISTENING SYSTEMS IN ROOMS INDICATED BY SIGN TYPE.
3. **SEE ELECTRICAL DRAWINGS AND GL-XXX SERIES FOR REQUIRED QUANTITY OF ASSISTIVE LISTENING DEVICES.**
4. ALL SIGNAGE MUST BE FIELD INSPECTED, VERIFY AFTER INSTALLATION PER 11B-703.1.1.2.
5. WHERE SIGNS ARE MOUNTED ON GLASS, MOUNT SIGNS BACK TO BACK AND MAKE EQUAL. IF THERE IS NO SIGNAGE ON GLASS, REQUIRED, PROVIDE A BLANK SIGN TO COVER ADHESIVE ON OTHER SIDE OF THE GLASS.
6. **ALL CLASSROOMS, CONFERENCE ROOMS, AND LIBRARY TO HAVE SIGNAGE STATING "OBTAIN ASSISTIVE LISTENING DEVICE IN FRONT OFFICE."**

SIGNAGE LEGEND

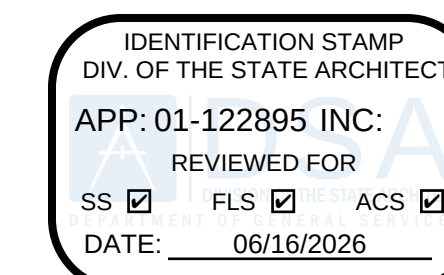
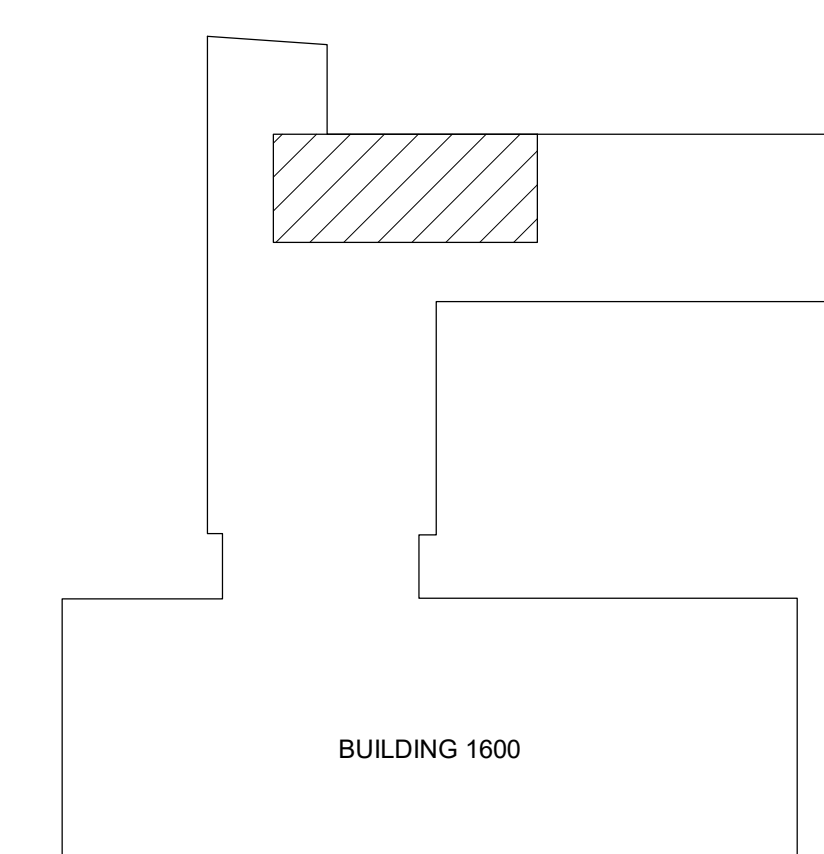
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|---|---|----|-------|
| 1 | FUNCTION ROOM ID SIGNAGE, SEE DETAIL | 4 | GAS12 |
| 2 | TACTILE EXIT ROUTE SIGNAGE "EXIT ROUTE", SEE DETAIL | 16 | GAS17 |
| 3 | ASSISTIVE LISTENING DEVICE SIGNAGE, SEE DETAIL | 19 | GAS12 |
| 4 | DIRECTIONAL ENTRY SIGNAGE | 11 | GAS12 |
| 5 | EVACUATION SIGNAGE, SEE DETAIL | 7 | GAS12 |
| 6 | OCCUPANCY LOAD SIGNAGE, SEE DETAIL | 15 | GAS12 |

ASSIST LISTENING DEVICES

TO COMPLY WITH 11B-700

[illegible]

KEY PLAN

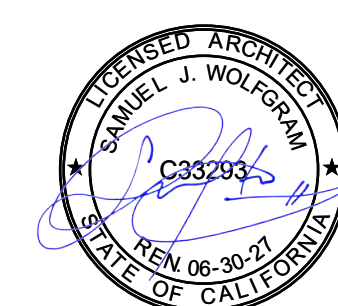


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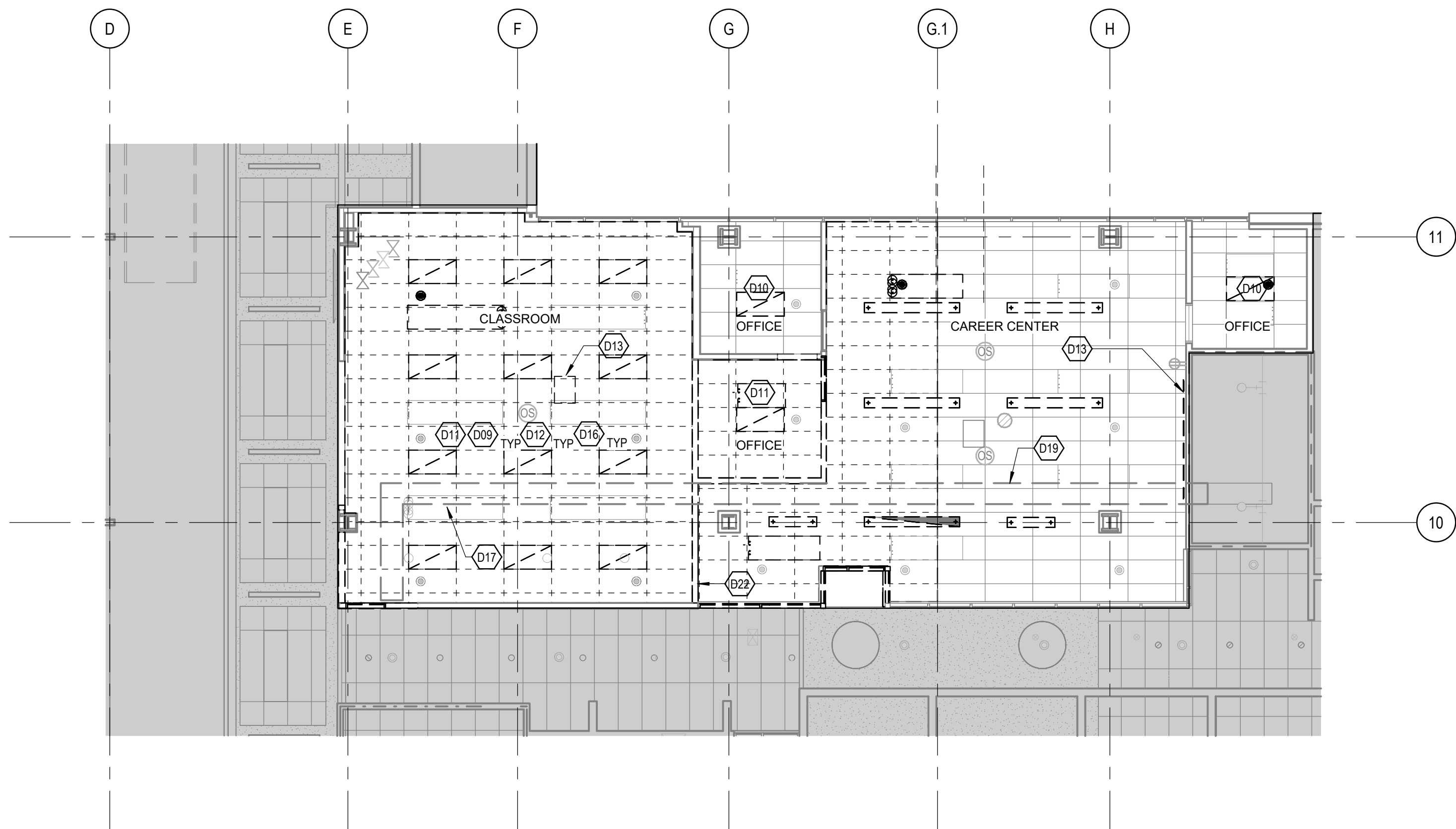
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FINISH & SIGNAGE PLANS

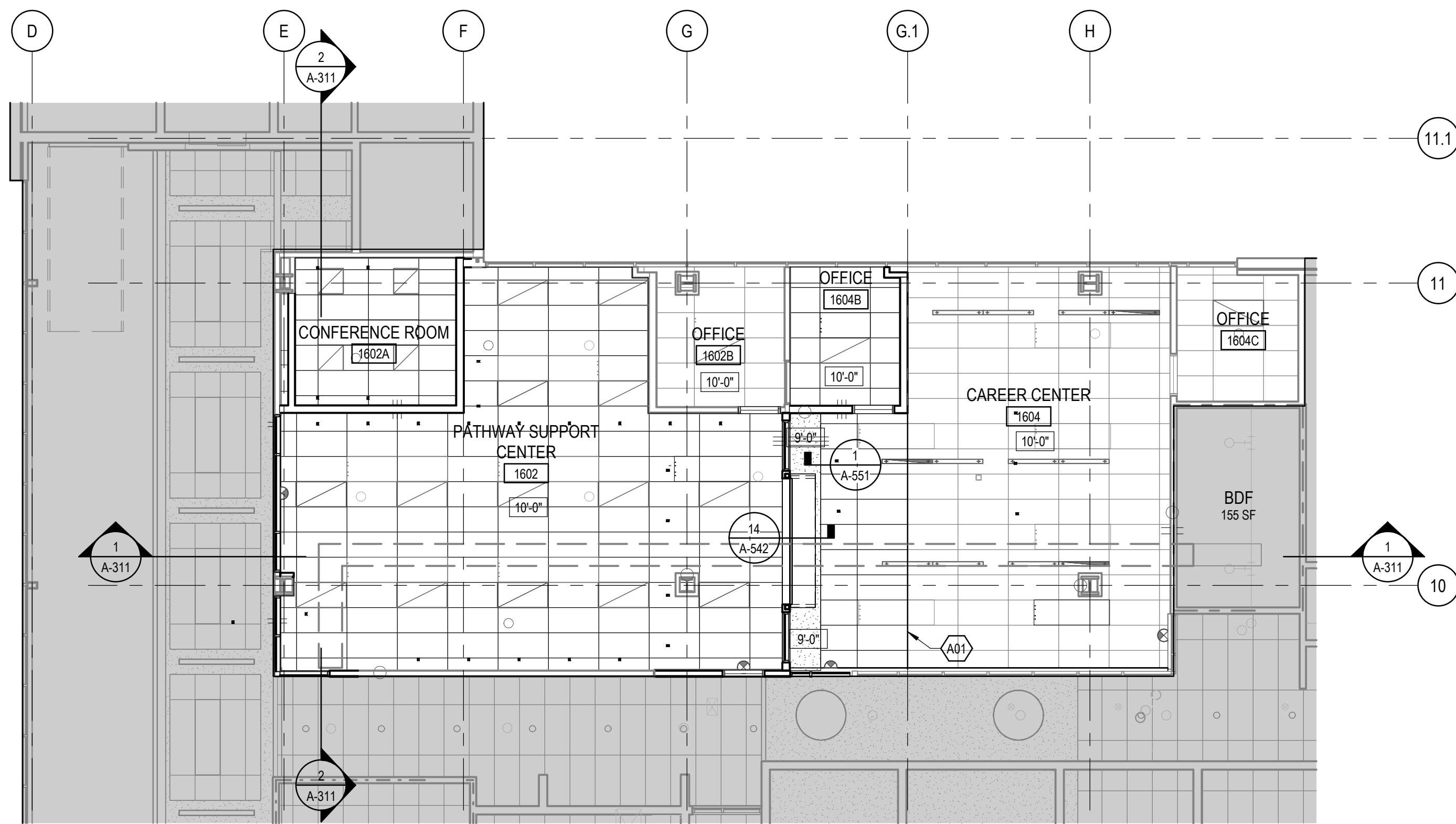
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2 DEMOLITION CEILING PLAN - LEVEL 1 - ENLARGED
SCALE 1/8" = 1'-0"



GENERAL DEMOLITION NOTES

1. REFER TO OTHER DISCIPLINES FOR ADDITIONAL DEMOLITION SCOPE NOT NOTED HERE.
2. MAINTAIN EXISTING UTILITIES AS INDICATED ON ELECTRICAL DRAWINGS TO STAY IN SERVICE AND PROTECT AGAINST DAMAGE DURING DEMOLITION OPERATIONS. ALL EXISTING ELECTRICAL BOXES SHALL REMAIN PROTECTED AND THEIR SERVICES MAINTAINED DURING DEMOLITION.
3. PRIOR TO BEGINNING WORK IN A SPECIFIC AREA OF THE PROJECT, CONTRACTOR SHALL LOCATE ALL NEARBY UTILITIES.
4. TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING ITEMS TO REMAIN IN PLACE OR TO REMAIN THE PROPERTY OF THE DISTRICT. REPAIR OR REPLACE DAMAGED ITEMS TO LIKE CONDITION PRIOR TO COMMENCEMENT OF DEMOLITION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR STORING ALL SALVAGED AND RECYCLED MATERIALS AND ITEMS. COORDINATE WITH THE DISTRICT ON ALL ITEMS NOTED TO BE TURNED OVER OR RETURNED TO THE DISTRICT.
6. IN AREAS INDICATED TO BE DEMOLISHED, REMOVE THAT PORTION OF THE EXISTING ELECTRICAL INSTALLATION INCLUDING, BUT NOT LIMITED TO, ALL LIGHT FIXTURES, RECEPTACLES, MOTOR/EQUIPMENT CONNECTIONS, WIRING, CONDUITS, PANELBOARDS, TRANSFORMERS, SWITCHBOARDS, AND APPURTENANCES. ALL UNUSED WIRING AND EXPOSED CONDUIT SHALL BE REMOVED BACK TO POINT OF CONCEALMENT, UNO.
7. ALL AREAS ON DEMOLITION PLANS ARE FOR REFERENCE ONLY. THE CONTRACTOR WILL BE REQUIRED TO FIELD VERIFY ALL AREAS TO DETERMINE SPECIFIC SCOPE.
8. CONTRACTOR SHALL PATCH AND REPAIR ALL ADJACENT AREAS AFFECTED BY DEMOLITION AS REQUIRED TO MATCH EXISTING CONDITIONS.
9. ALL SAFEGUARDS MUST BE ADHERED TO DURING CONSTRUCTION AND DEMOLITION PER CFC & CBC CHAPTER 33.
10. CONTRACTOR SHALL COORDINATE HAZARDOUS MATERIAL ABATEMENT PROCESS WITH OWNER.
11. ALL WORK TO BE PROVIDED BY THIS CONTRACTOR, UNO.
12. NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA.

GENERAL NOTES

1. ALL CEILING GRID LAYOUTS ARE FROM THE CENTER OF THE ROOM, FULL TILE FROM ROOM CORNER, UNO - AVOID SMALL TILE SLIVERS WHERE POSSIBLE.
2. PAINT ALL EXPOSED DUCTS, PIPING, CONDUIT, STEEL FRAMING, METAL DECK, ASSOCIATED FASTENERS, ETC. AS P1, UNO ON FINISH SCHEDULE.
3. PAINT ALL GYPSUM BOARD CEILINGS AS P1, UNO ON FINISH SCHEDULE.
4. CEILING GRID SYSTEM MUST BE RATED HEAVY DUTY AS DEFINED BY ASTM C635.
5. ALL CEILING HEIGHTS ARE MEASURED FROM THE FINISH FLOOR ELEVATION.
6. ADD FIRE BLOCKING, 2" THICK NOMINAL LUMBER WITHIN WALLS AND CONCEALED SPACES AT CEILING TRANSITIONS AND HORIZONTAL AT INTERVALS NOT EXCEEDING 10' PER CBC 718.2.1 AND 718.2.2.
7. SEE FINISH SCHEDULE FOR ALL CEILING FINISHES, SEE SHEET A-641.
8. SEE ELECTRICAL DRAWINGS FOR ALL LIGHTING FIXTURES, SMOKE DETECTORS, ETC.
9. SEE MECHANICAL DRAWINGS FOR ALL DIFFUSERS, EQUIPMENT, ETC.
10. SEE FIRE PROTECTION DRAWINGS FOR ALL PIPING, HEADS, ETC.

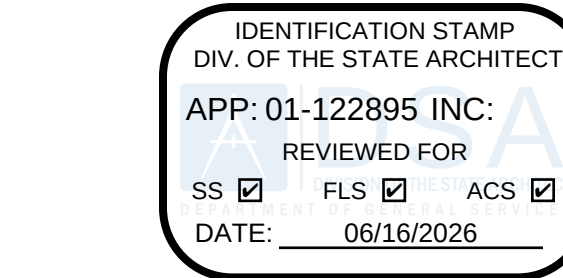
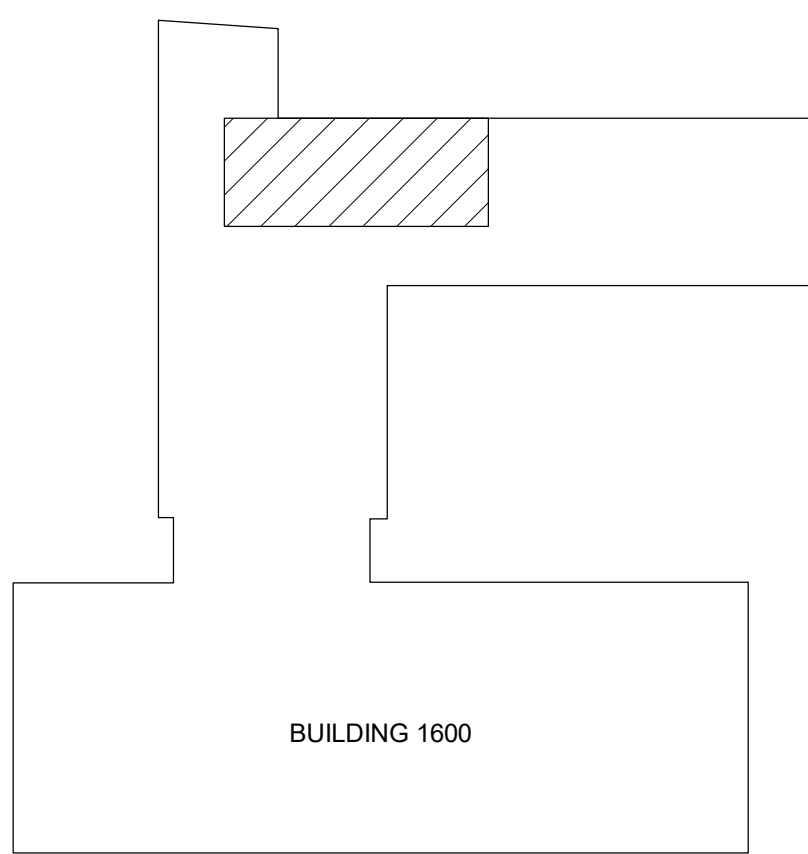
CEILING PLAN LEGEND

- 8'-0" CEILING HEIGHT ELEVATION
- 2'x4' SUSPENDED ACOUSTICAL CEILING
- 2'x2' SUSPENDED ACOUSTICAL CEILING
- PAINTED GYPSUM BOARD CEILING
- LIGHT FIXTURES, SEE ELECTRICAL DRAWINGS
- FIRE SPRINKLER HEADS, SEE FIRE PROTECTION DRAWINGS
- NO SCOPE OF WORK
- (E) GYPSUM BOARD CEILING
- (E) SUSPENDED CEILING TILES TO BE REMOVED

SHEET KEYNOTES

- A01 ALIGN NEW CEILING TO (E) CEILING GRID. SEE DETAIL 2/A-551
- D09 (E) FIRE SPRINKLERS, SMOKE DETECTORS, FIRE ALARM DEVICES, AND OTHER CEILING DEVICES TO BE REPLACED AS REQUIRED. SEE ELECTRICAL AND FIRE PROTECTION
- D10 (E) SUSPENDED ACOUSTIC TILE CEILING TO REMAIN AS INDICATED PER PLAN
- D11 REMOVE (E) SUSPENDED ACOUSTIC TILE CEILING AS INDICATED PER PLAN. SALVAGE AND REINSTALL DEVICES. SEE ELECTRICAL AND MECHANICAL
- D12 REMOVE (E) SUSPENDED ACOUSTIC TILES AS NEEDED TO PERFORM MEP WORK. SEE PLUMBING & MECHANICAL. PROTECT AND SAVE TILES FOR REINSTALLATION.
- D13 REMOVE (E) PROJECTOR AND RETURN TO DISTRICT
- D16 SEE MECHANICAL FOR EXTENT OF CHILLED BEAM DEMOLITION, PROTECTION, AND RELOCATION, TYP
- D17 (E) CABLE TRAY ABOVE CEILING TO REMAIN. PROTECT IN PLACE
- D19 (E) CABLE TRAY ABOVE TO REMAIN
- D22 DURING DEMOLITION OF PARTITION, CONTRACTOR TO CONFIRM AND PROVIDE UNISTRUT SUPPORT FOR (E) CABLE TRAY AS NECESSARY

KEY PLAN

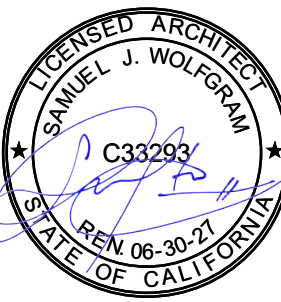


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TITLE

CEILING PLAN &
DEMOLITION PLAN

SHEET

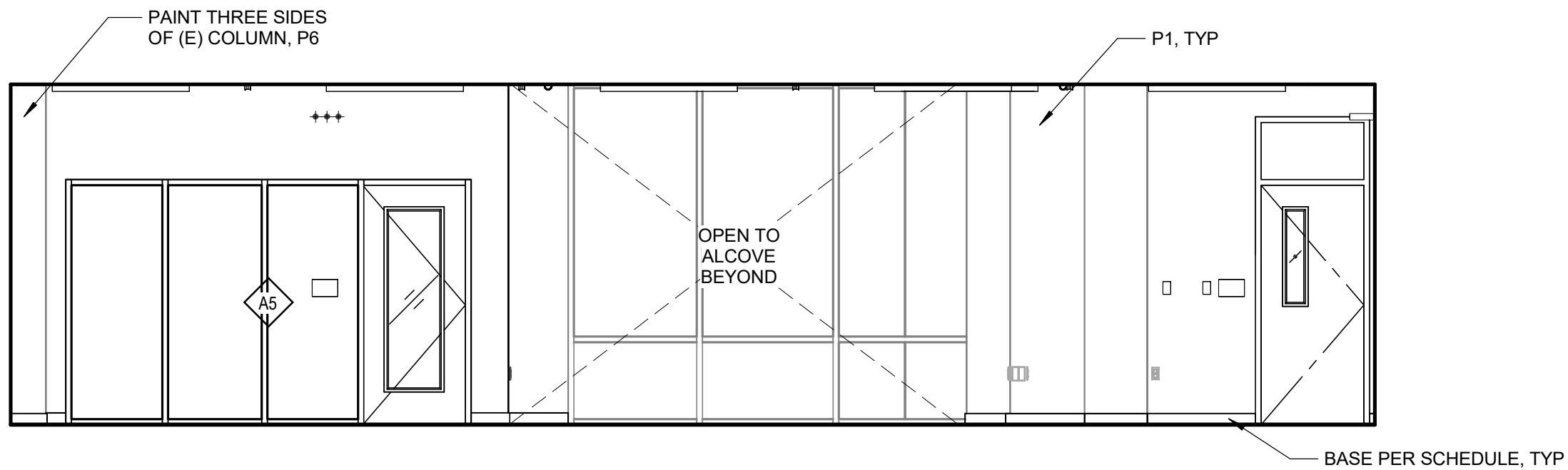
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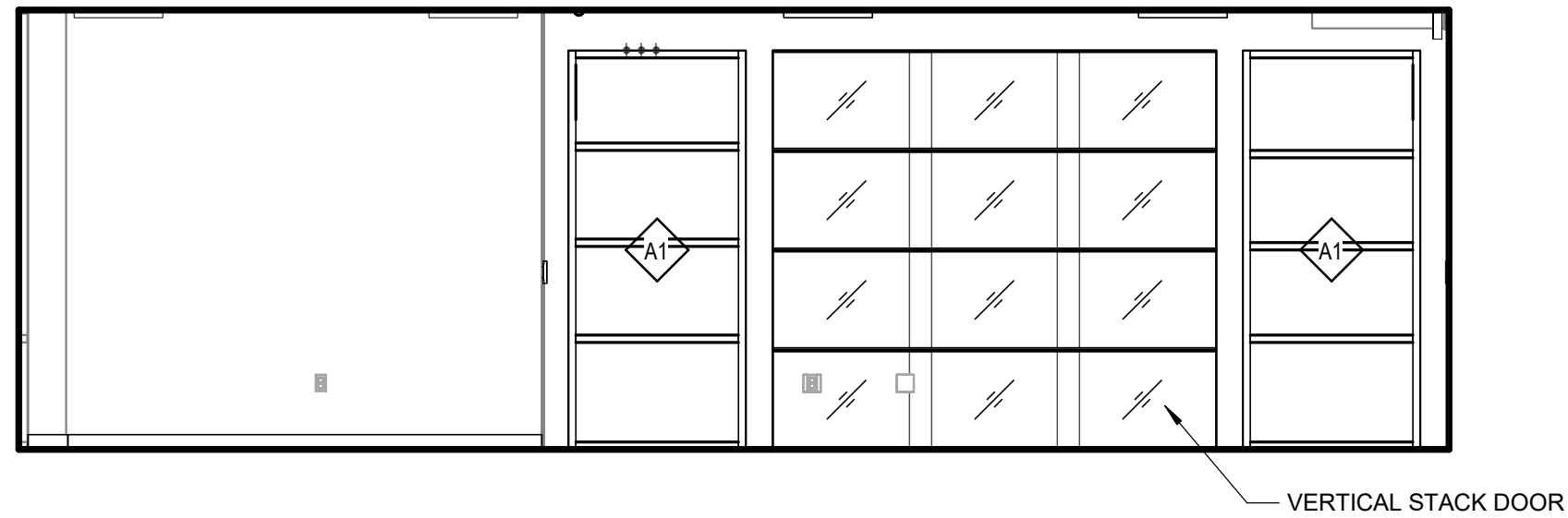
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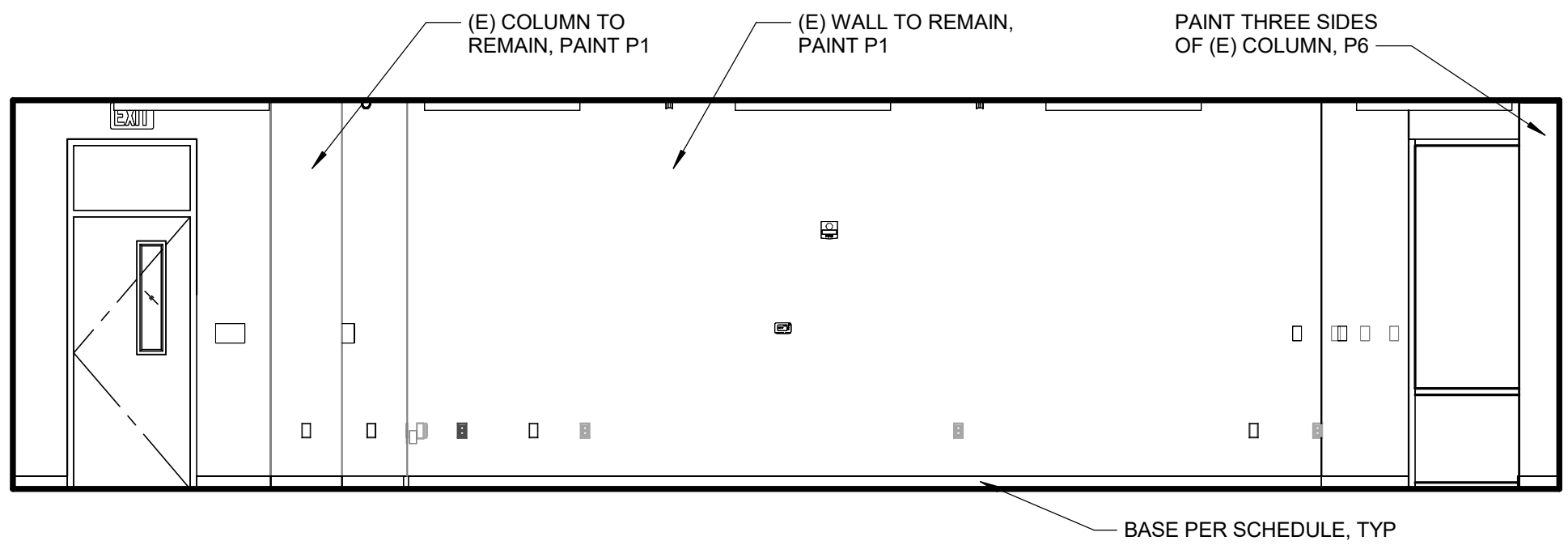
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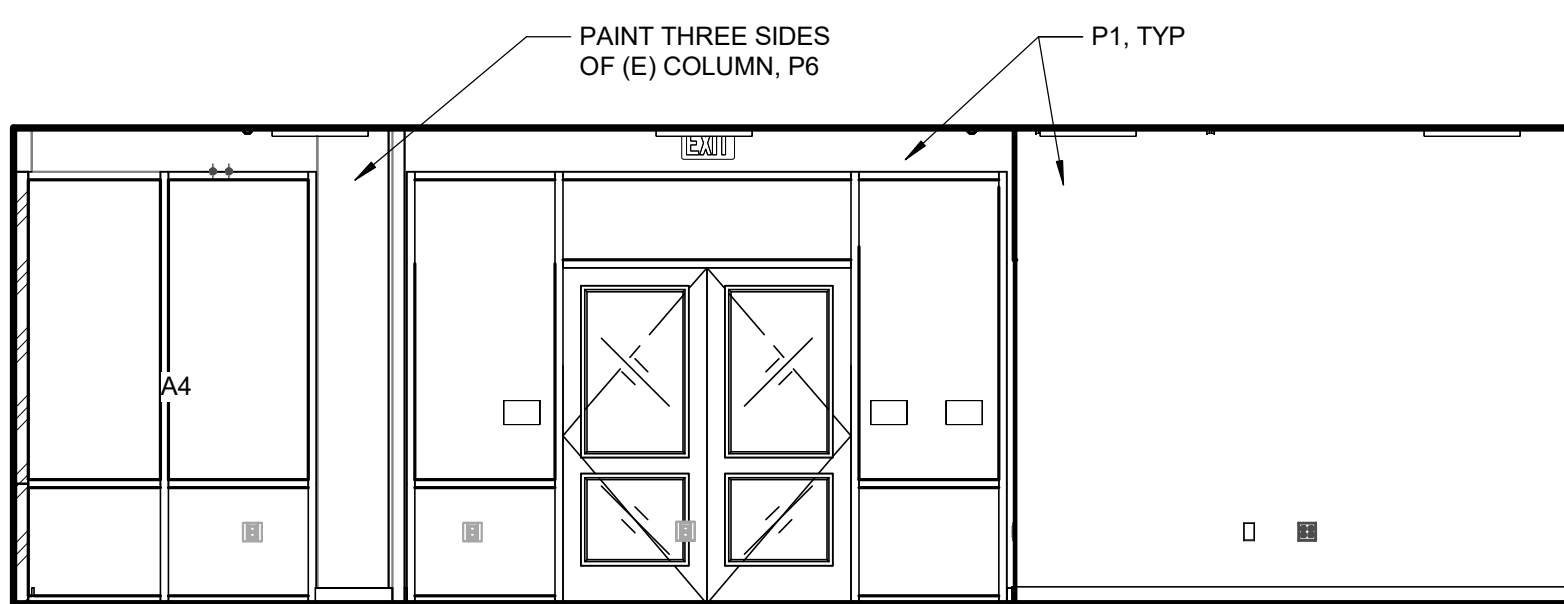
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SCALE 1/4" = 1'-0"



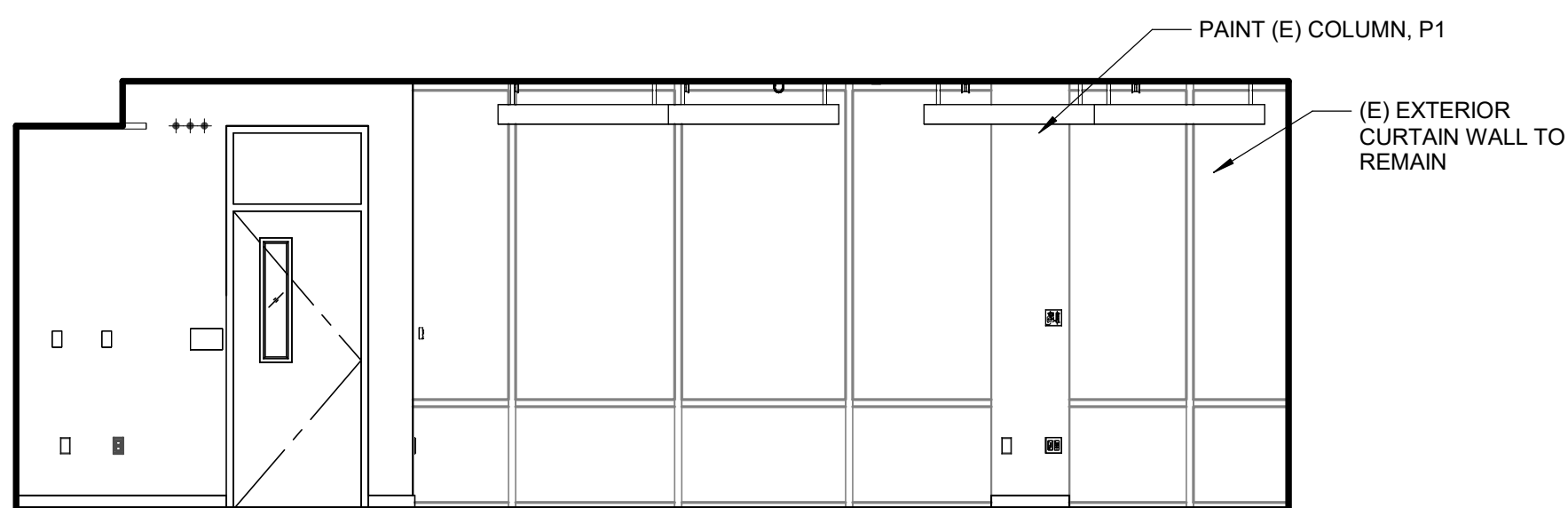
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SCALE 1/4" = 1'-0"



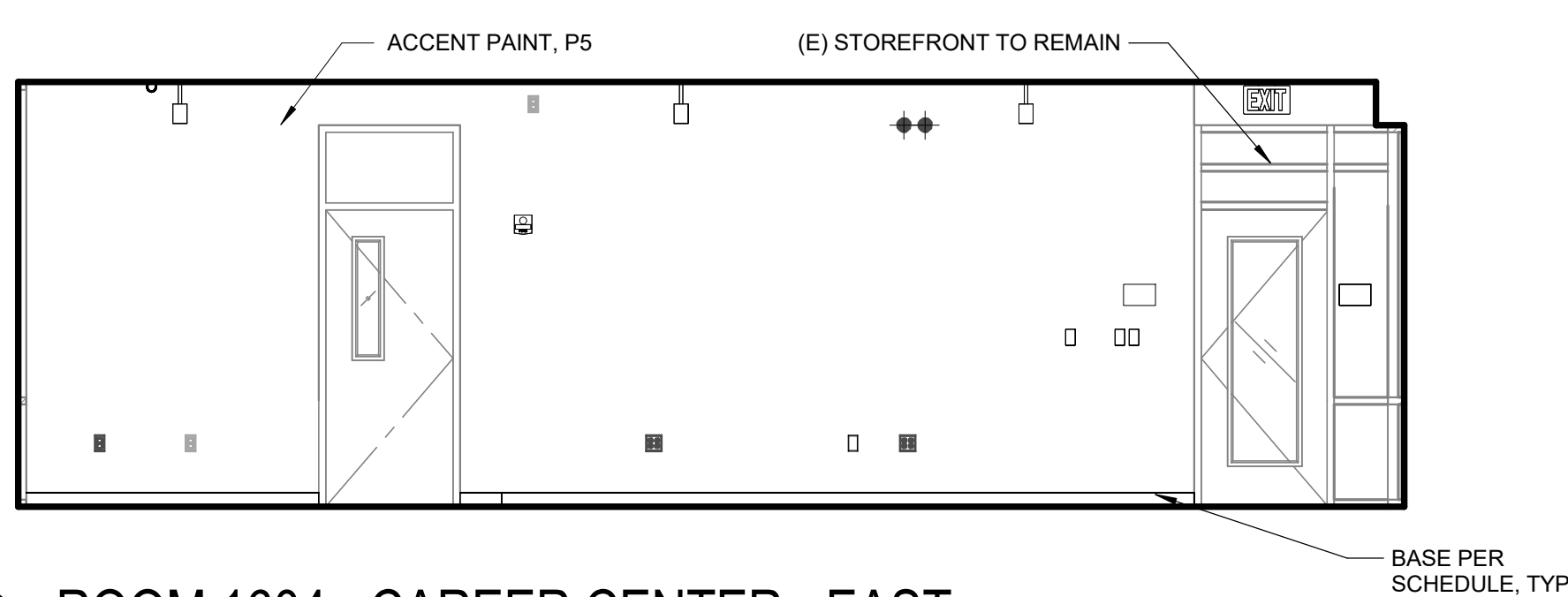
3 ROOM 1602 - PATHWAY SUPPORT - SOUTH
SCALE 1/4" = 1'-0"



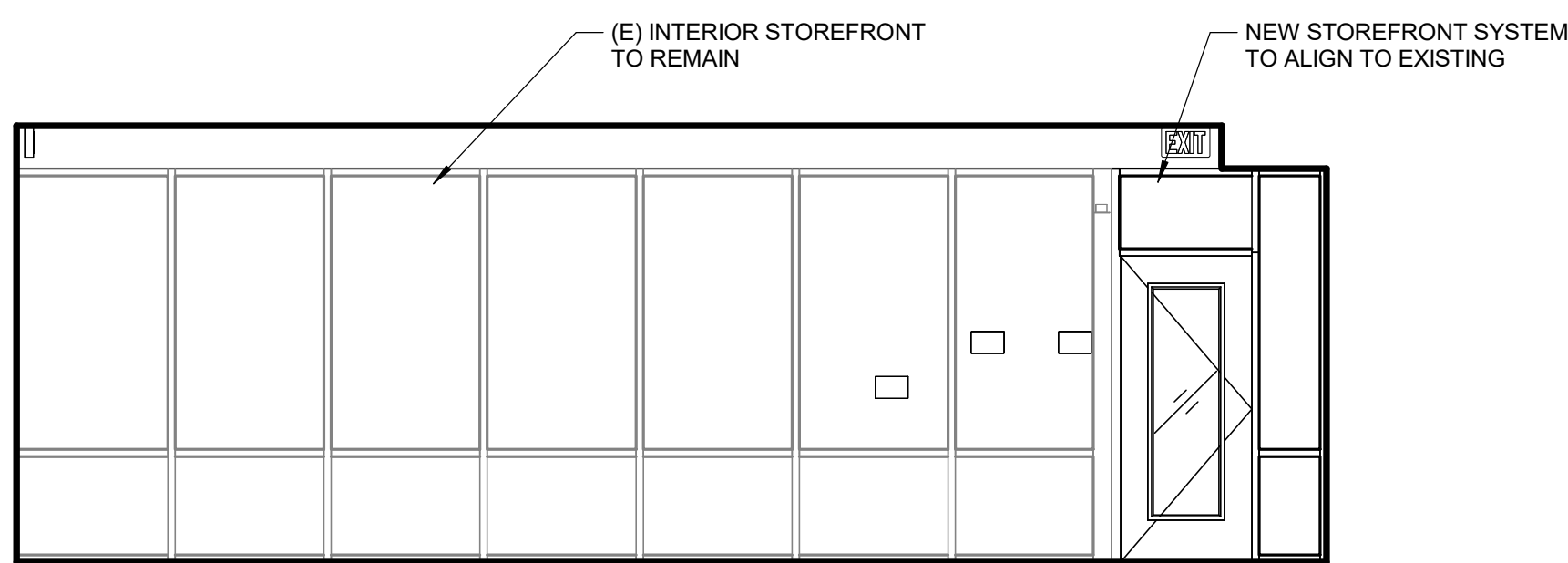
4 ROOM 1602 - PATHWAY SUPPORT - WEST
SCALE 1/4" = 1'-0"



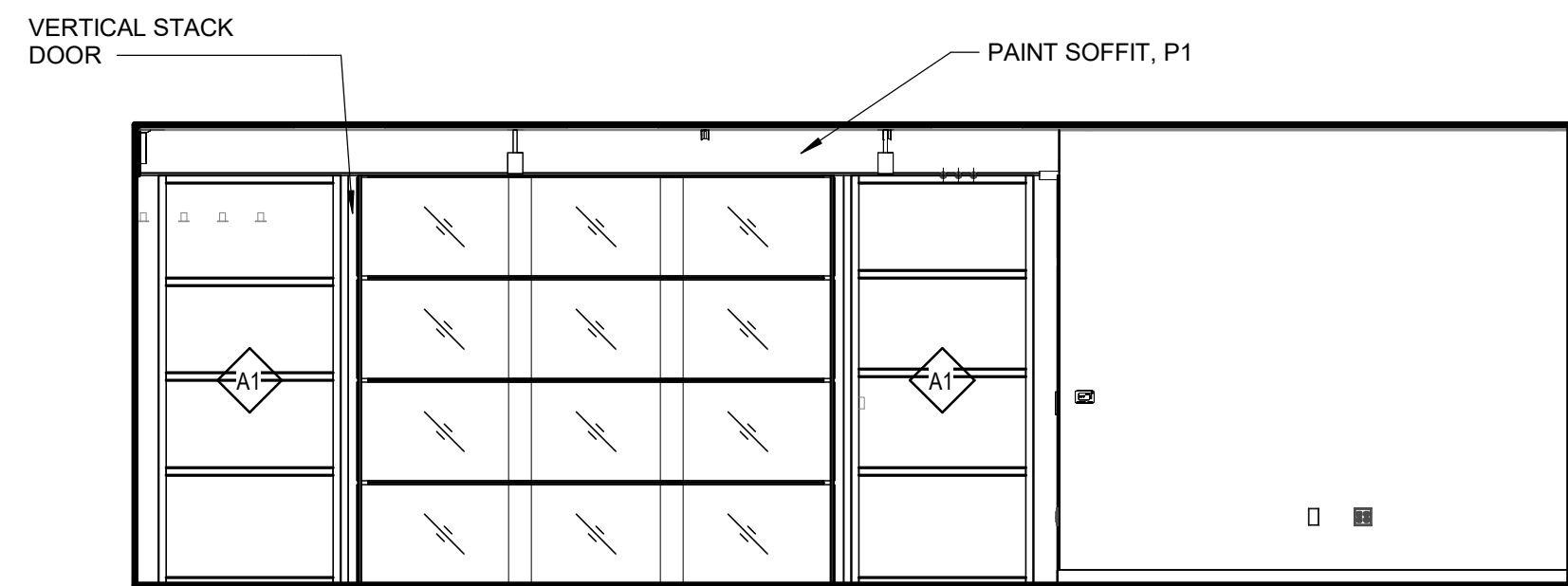
5 ROOM 1604 - CAREER CENTER - NORTH
SCALE 1/4" = 1'-0"



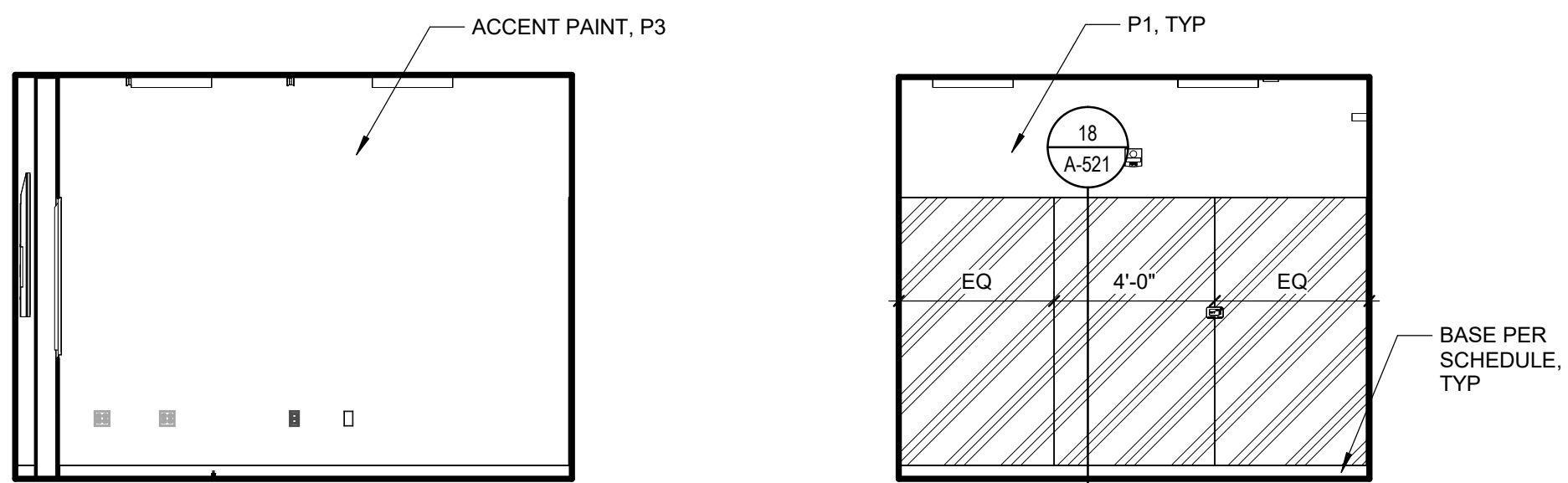
6 ROOM 1604 - CAREER CENTER - EAST
SCALE 1/4" = 1'-0"



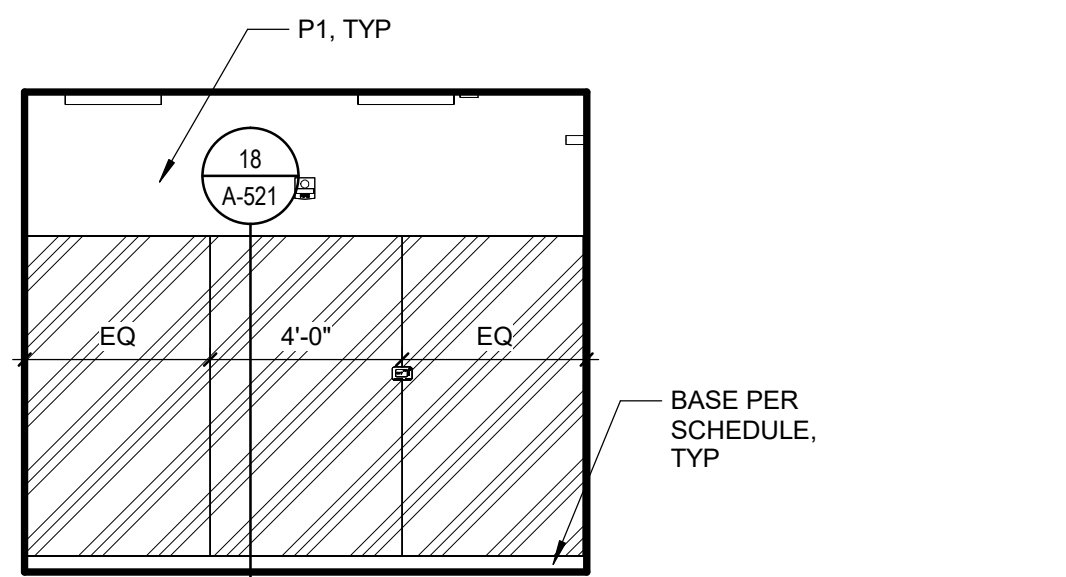
7 ROOM 1604 - CAREER CENTER - SOUTH
SCALE 1/4" = 1'-0"



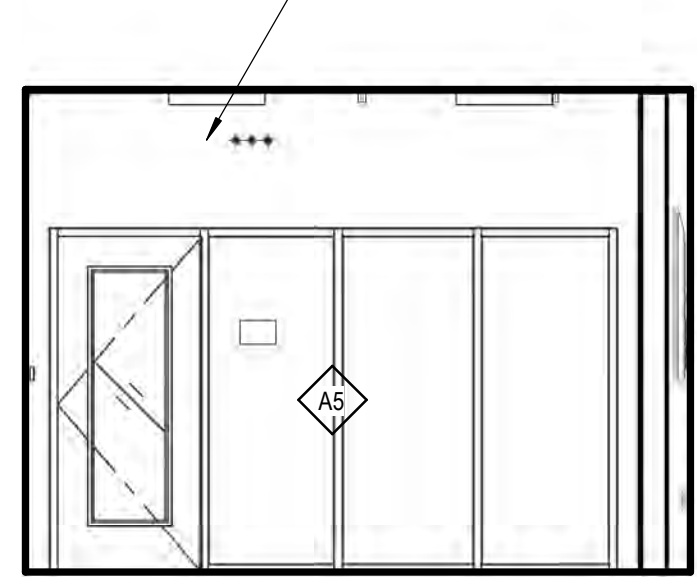
8 ROOM 1604 - CAREER CENTER - WEST
SCALE 1/4" = 1'-0"



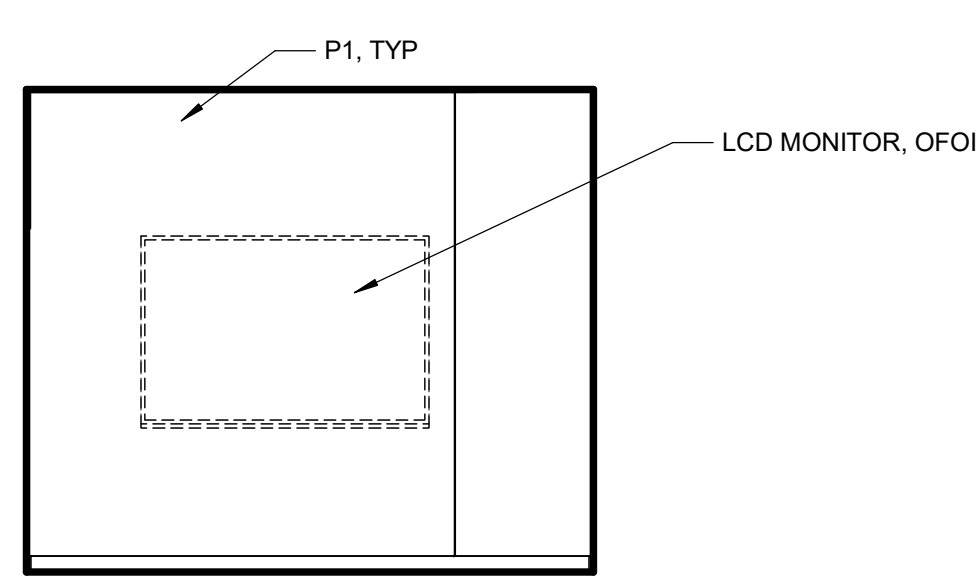
9 ROOM 1602A - CONF - NORTH
SCALE 1/4" = 1'-0"



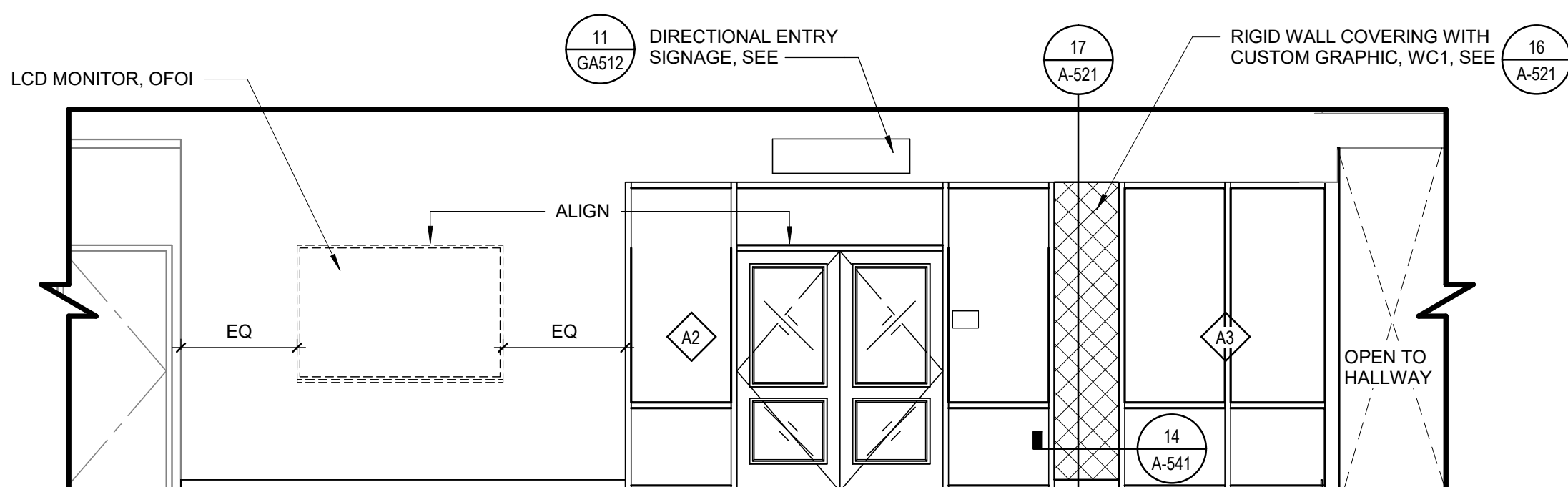
10 ROOM 1602A - CONF - EAST
SCALE 1/4" = 1'-0"



11 ROOM 1602A - CONF - SOUTH
SCALE 1/4" = 1'-0"



12 ROOM 1602A - CONF - WEST
SCALE 1/4" = 1'-0"



13 ROOM 1601 - GALLERY - EAST
SCALE 1/4" = 1'-0"

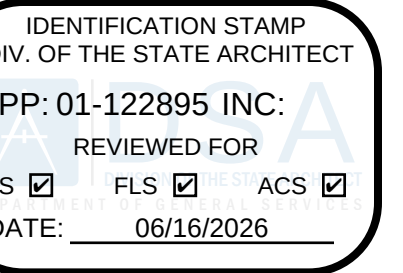
GENERAL NOTES

1. REFER TO FINISH LEGEND AND SCHEDULE ON SHEET A-641 FOR FURTHER INFORMATION.
2. IF AT ANY TIME THE GENERAL CONTRACTOR REQUIRES CLARIFICATION OF FINISH LOCATIONS, CONTACT PROJECT ARCHITECT PRIOR TO FINISH APPLICATION.
3. ALL INTERIOR FINISHES SHALL COMPLY WITH CBC SECTION 803 (INTERIOR FINISHES)
4. REFER TO SHEET A-521 FOR INTERIOR DETAILS

WALL FINISH LEGEND

REFER TO SHEET A-641 FOR INTERIOR FINISH LEGEND

- PL1 - MARKER LAMINATE PANELS
- WC1 - RIGID WALLCOVERING WITH CUSTOM GRAPHIC

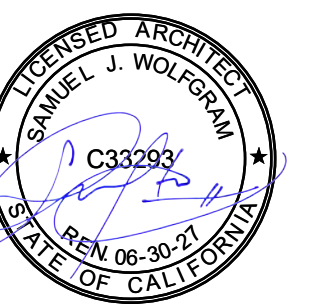


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PROJECT
PATHWAYS SUPPORT CENTER
RENOVATION

3000 CAMPUS HILL DR
LIVERMORE, CA 94551

CLIENT
CHABOT-LAS POSITAS COMMUNITY COLLEGE
DISTRICT
3000 CAMPUS HILL DRIVE LIVERMORE, CA 94551

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MANAGEMENT

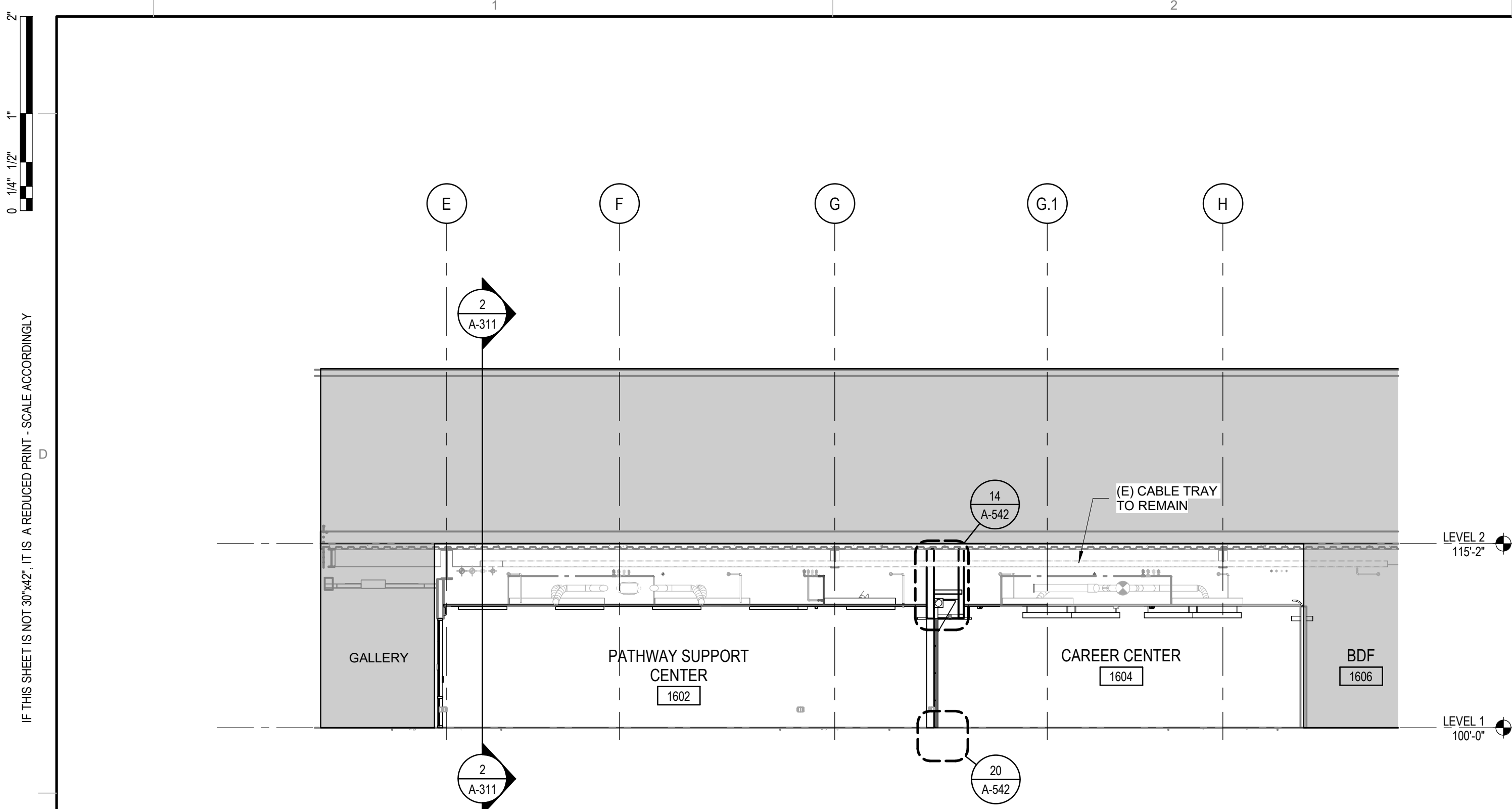
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TITLE

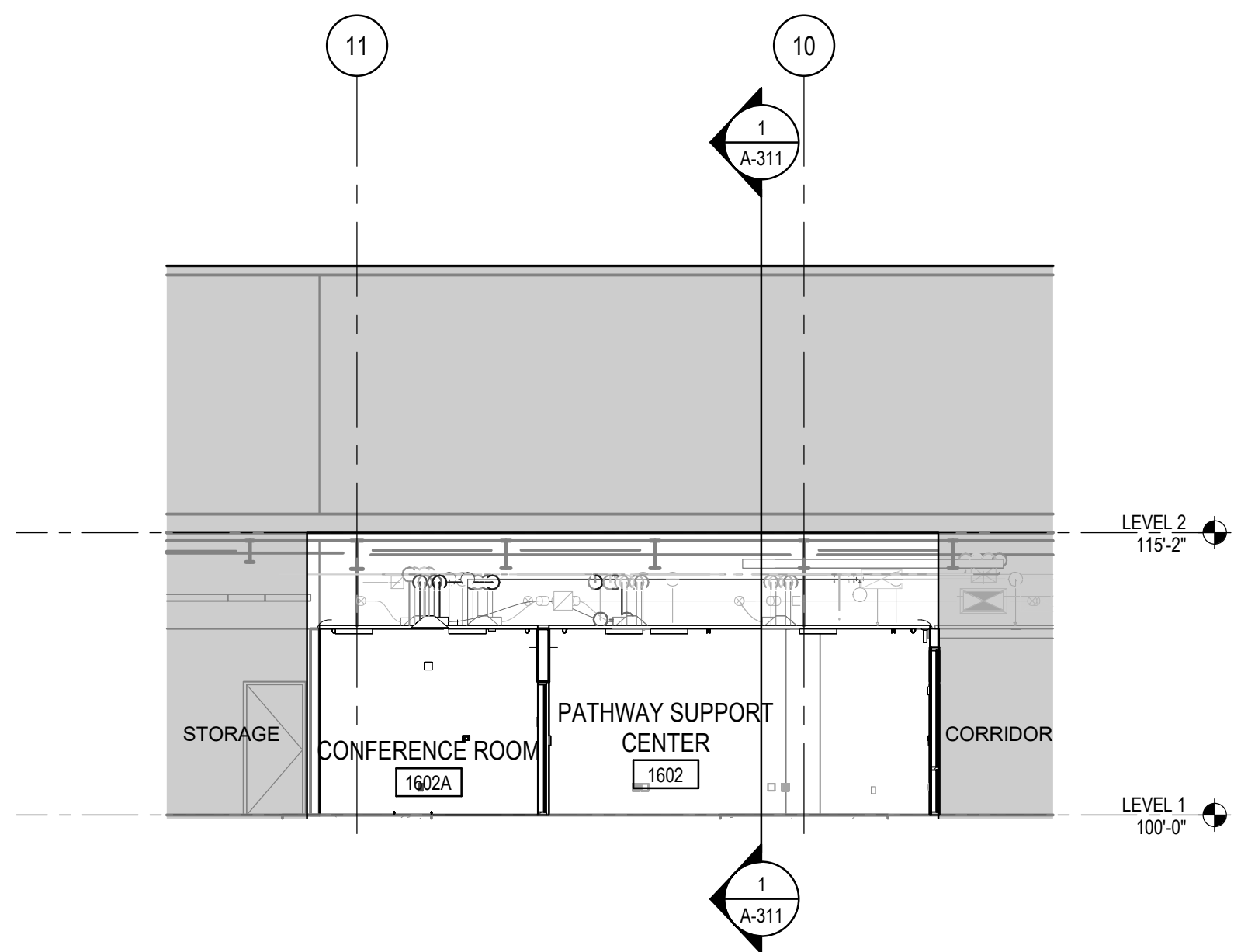
ELEVATIONS - INTERIOR

SHEET

A-221

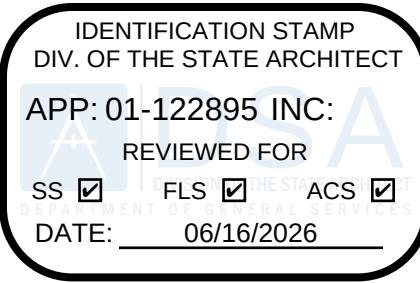
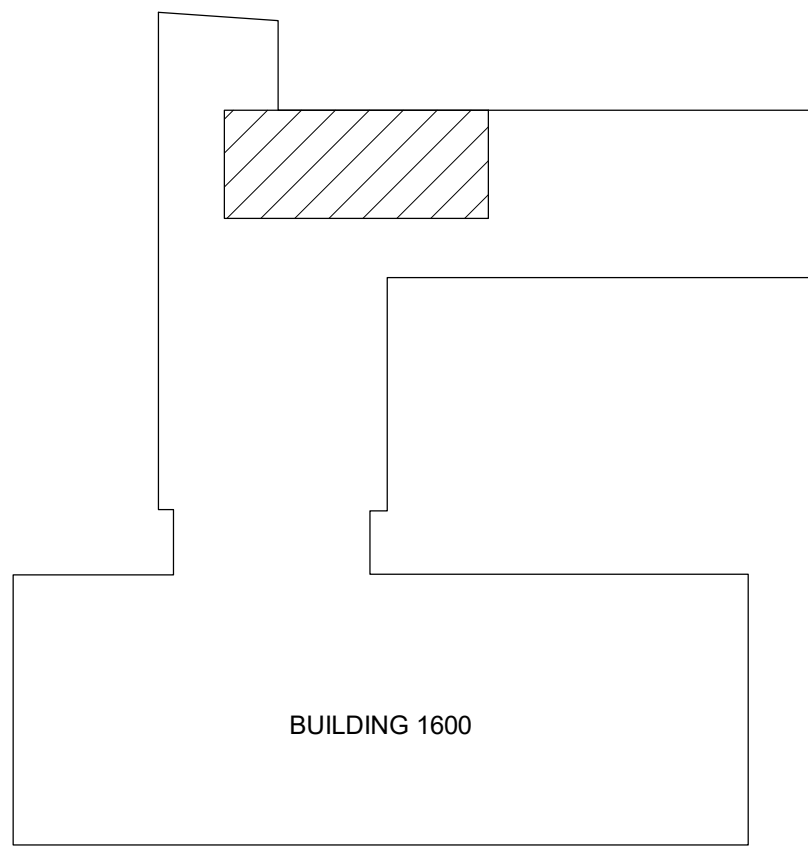


1 BUILDING SECTION 1
SCALE 1/8" = 1'-0"



2 BUILDING SECTION 2
SCALE 1/8" = 1'-0"

KEY PLAN

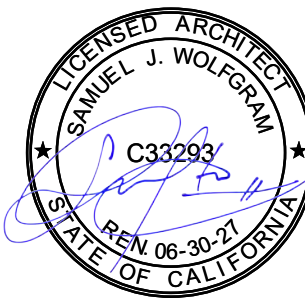


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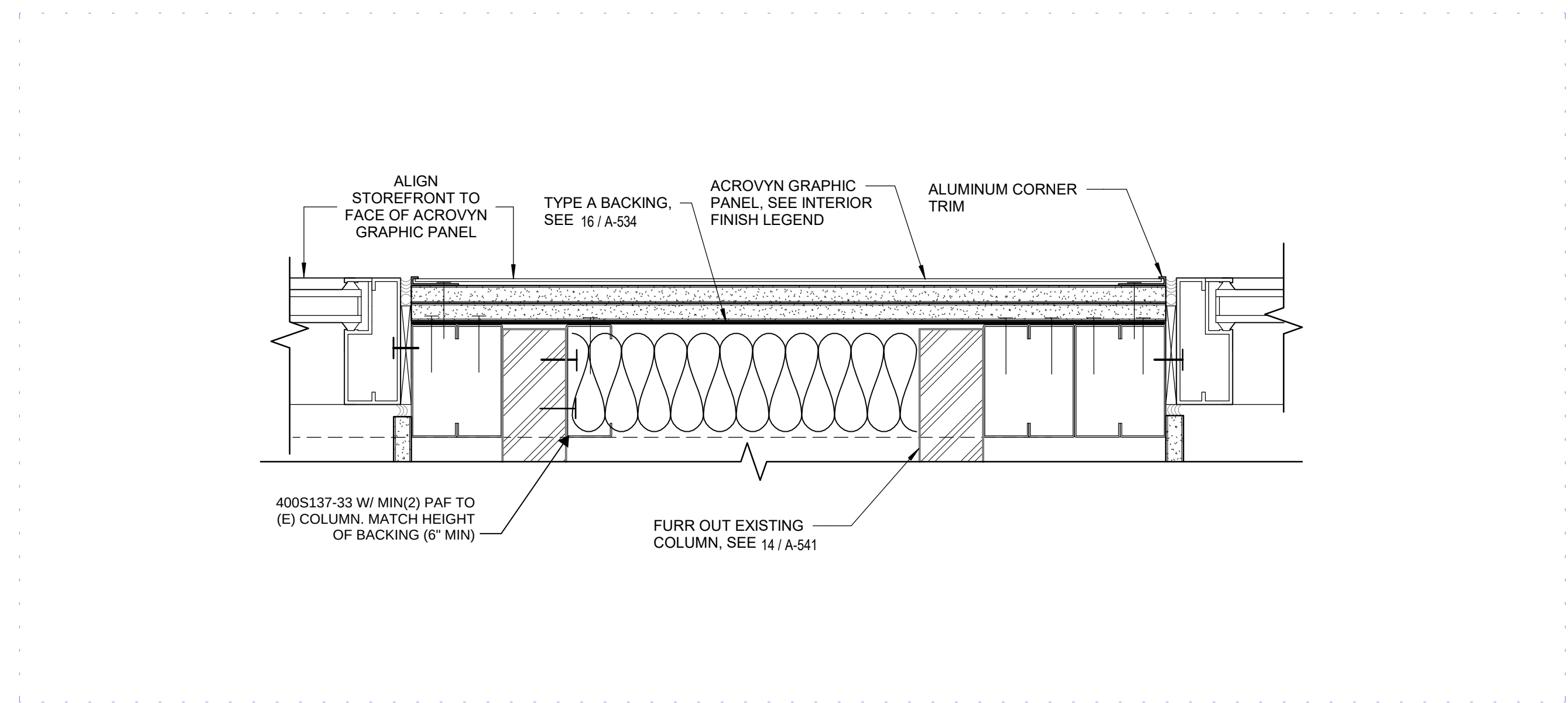
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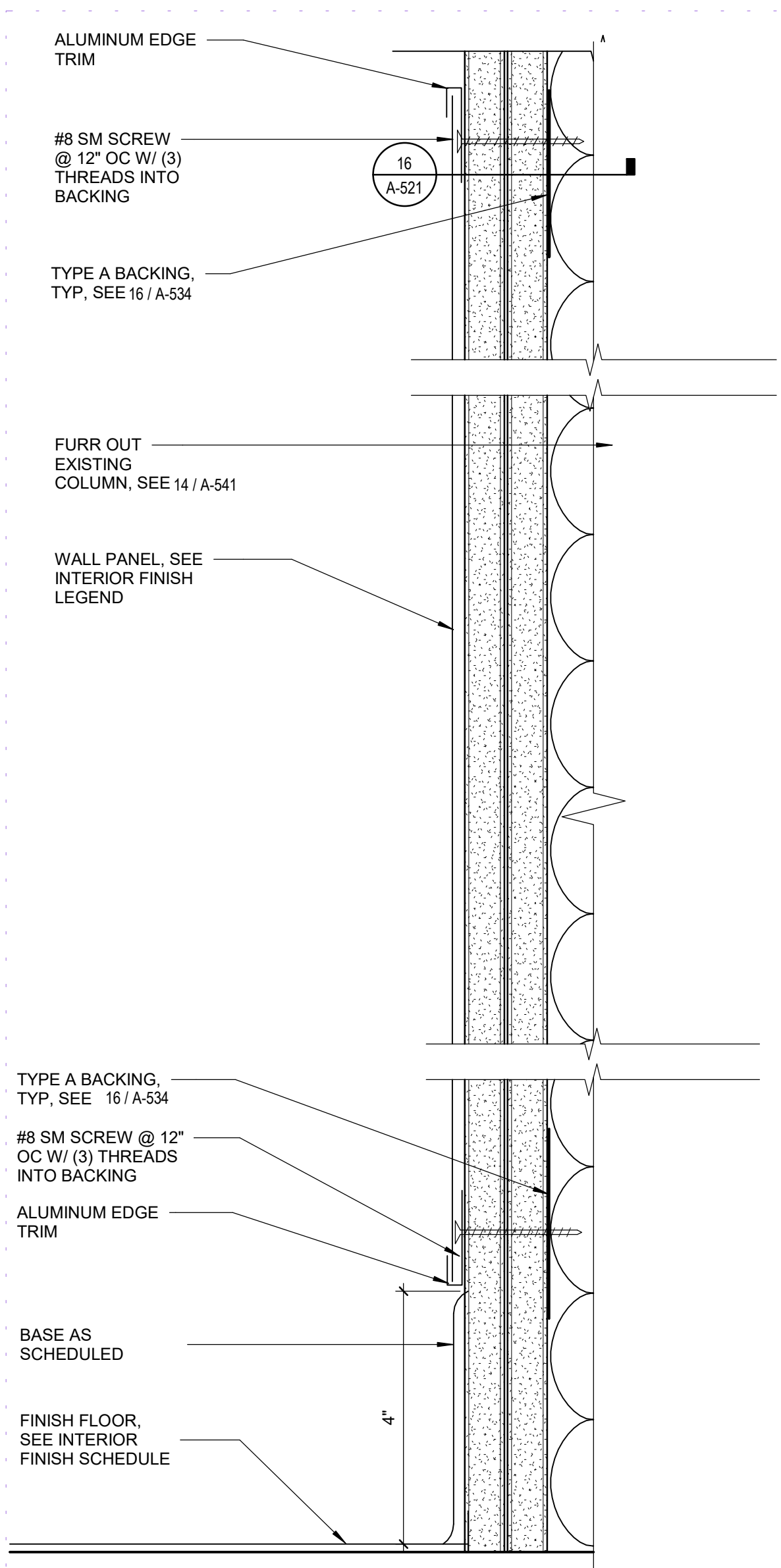
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SECTIONS - BUILDING

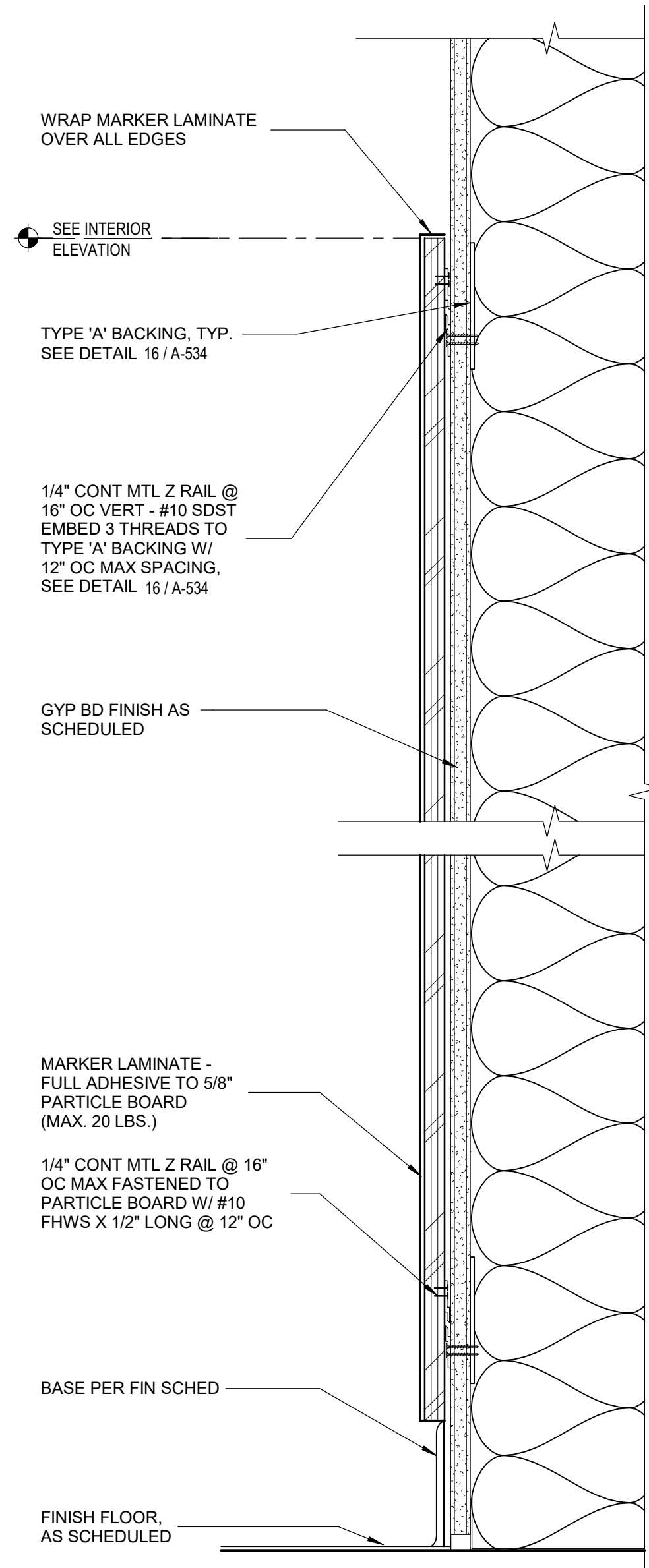
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A-311



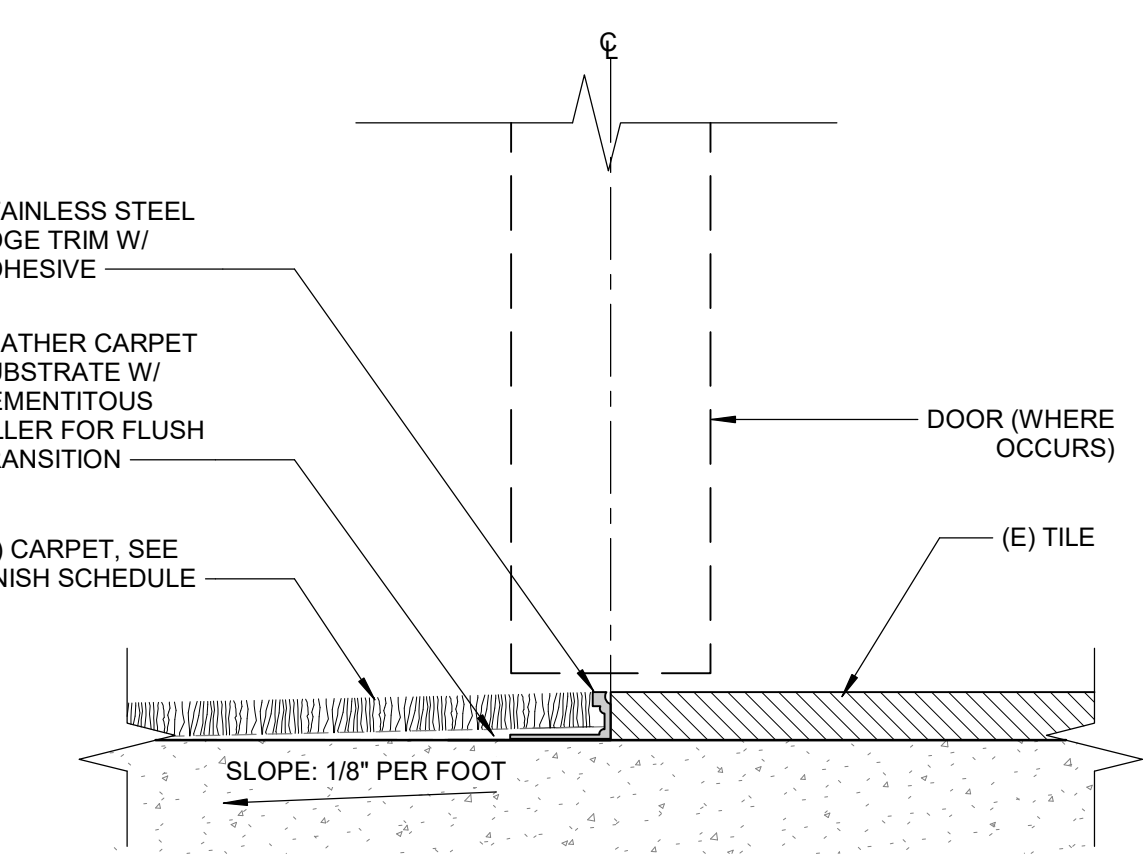
16 FRL CORNER DETAIL
3" = 1'-0"



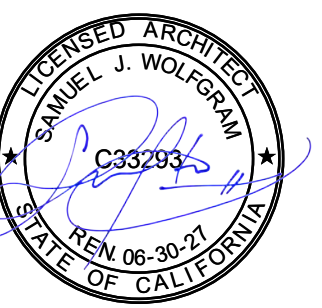
17 GRAPHIC PANELS
6" = 1'-0"



18 MARKER LAMINATE
3" = 1'-0"

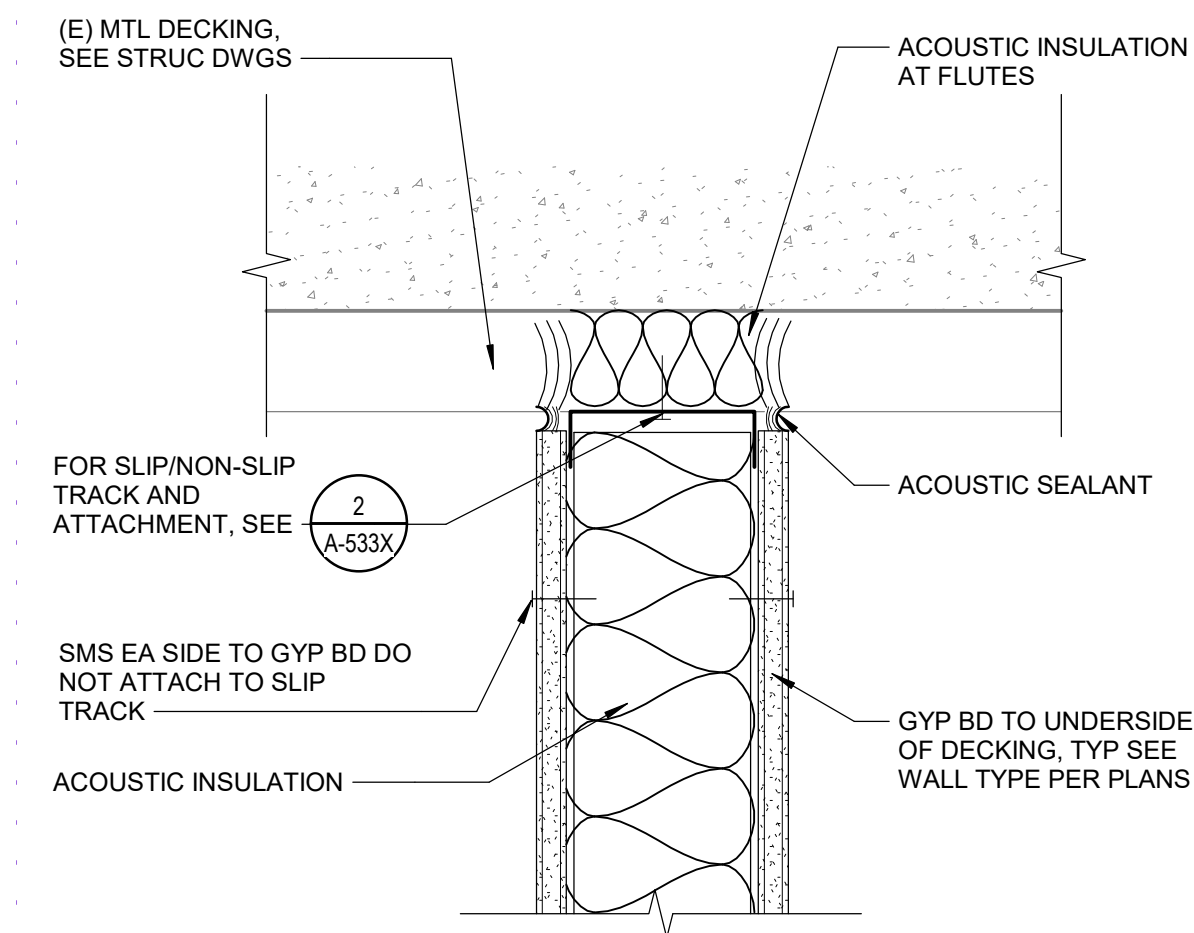


19 FLOOR TRANSITION - TILE TO CARPET
6" = 1'-0"

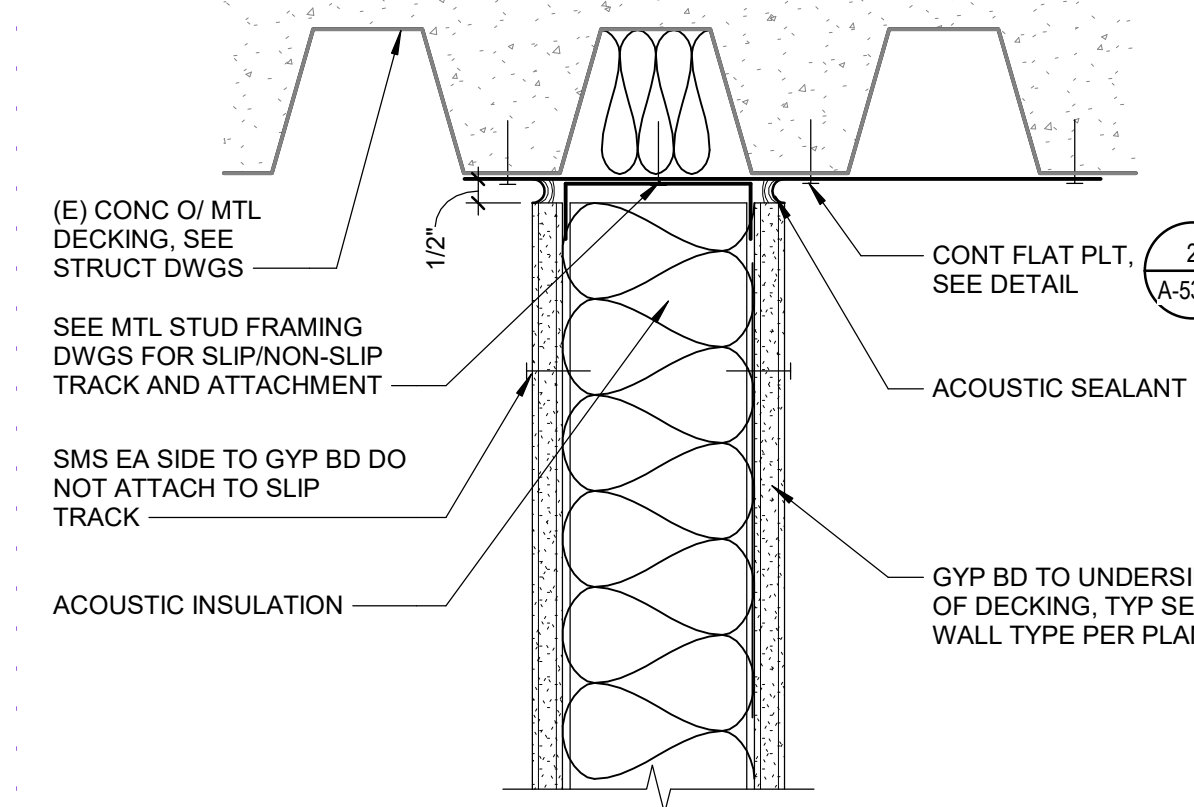


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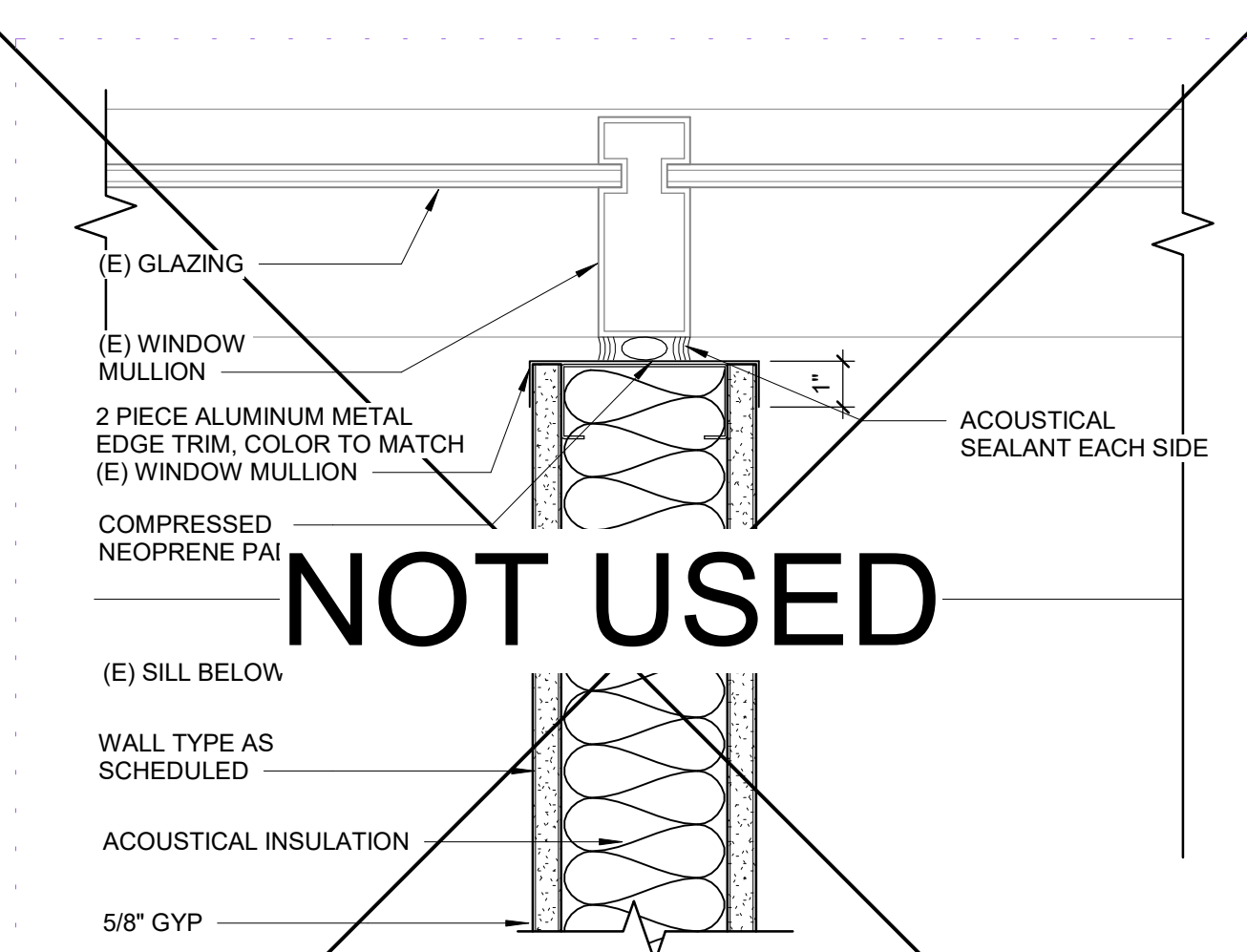
PERPENDICULAR TO FLUTES



PARALLEL TO FLUTES

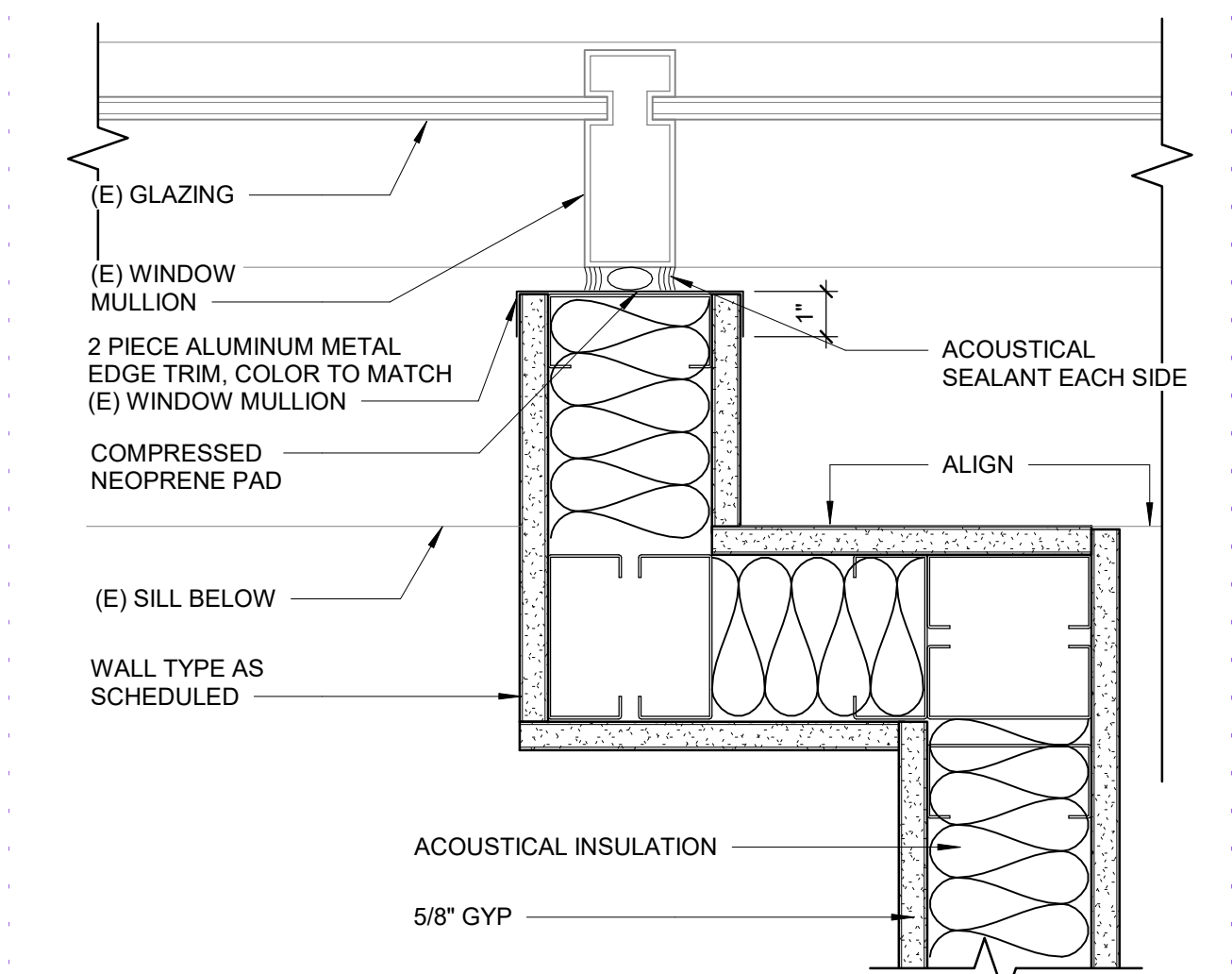
2 NON-RATED HEAD OF WALL TO MTL DECK

3" = 1'-0" 0530_NON-RATED HEAD OF WALL TO MTL DECK



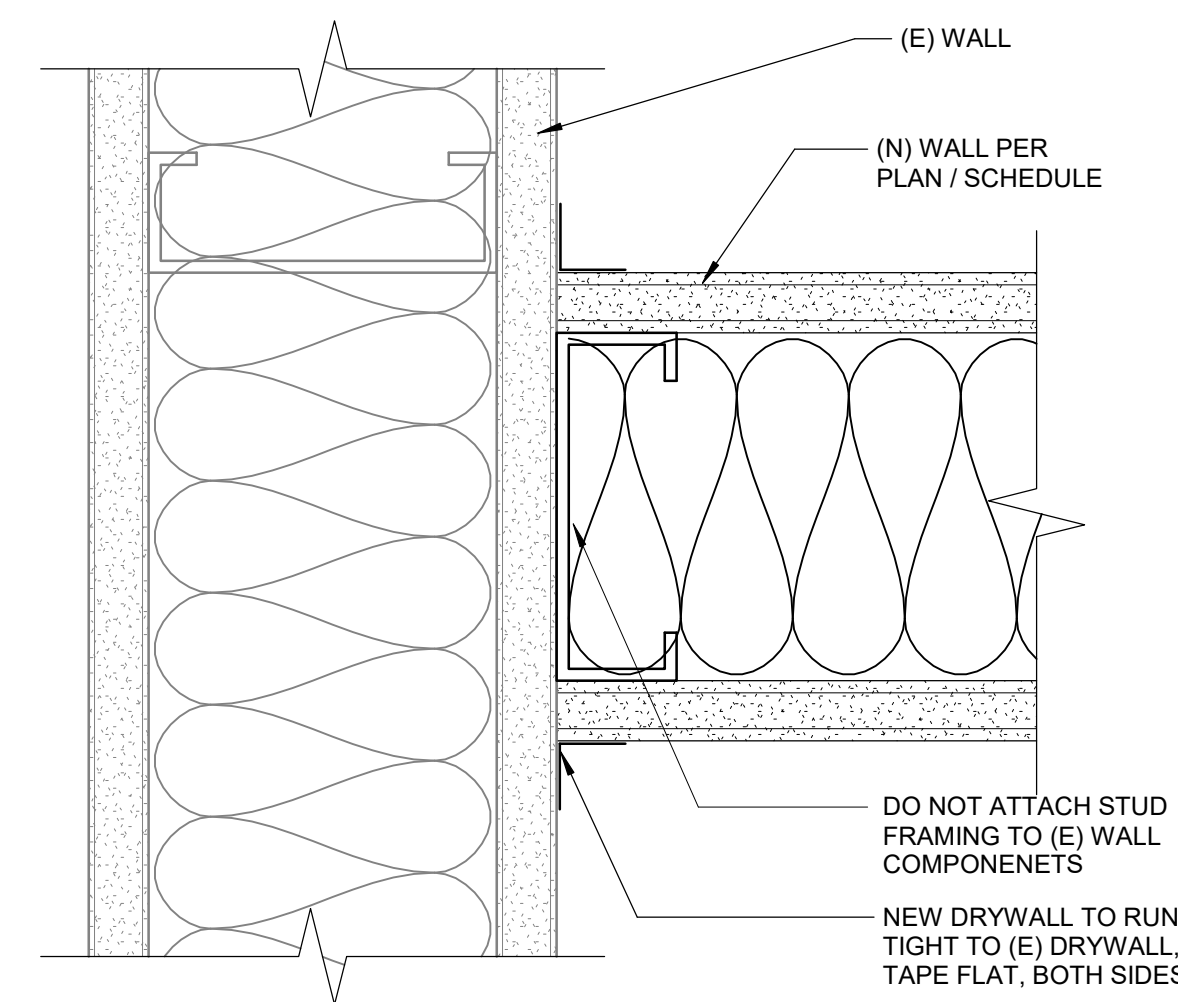
3 PARTITION TO (E) MULLION W/ SILL

3" = 1'-0" PARTITION TO (E) MULLION2



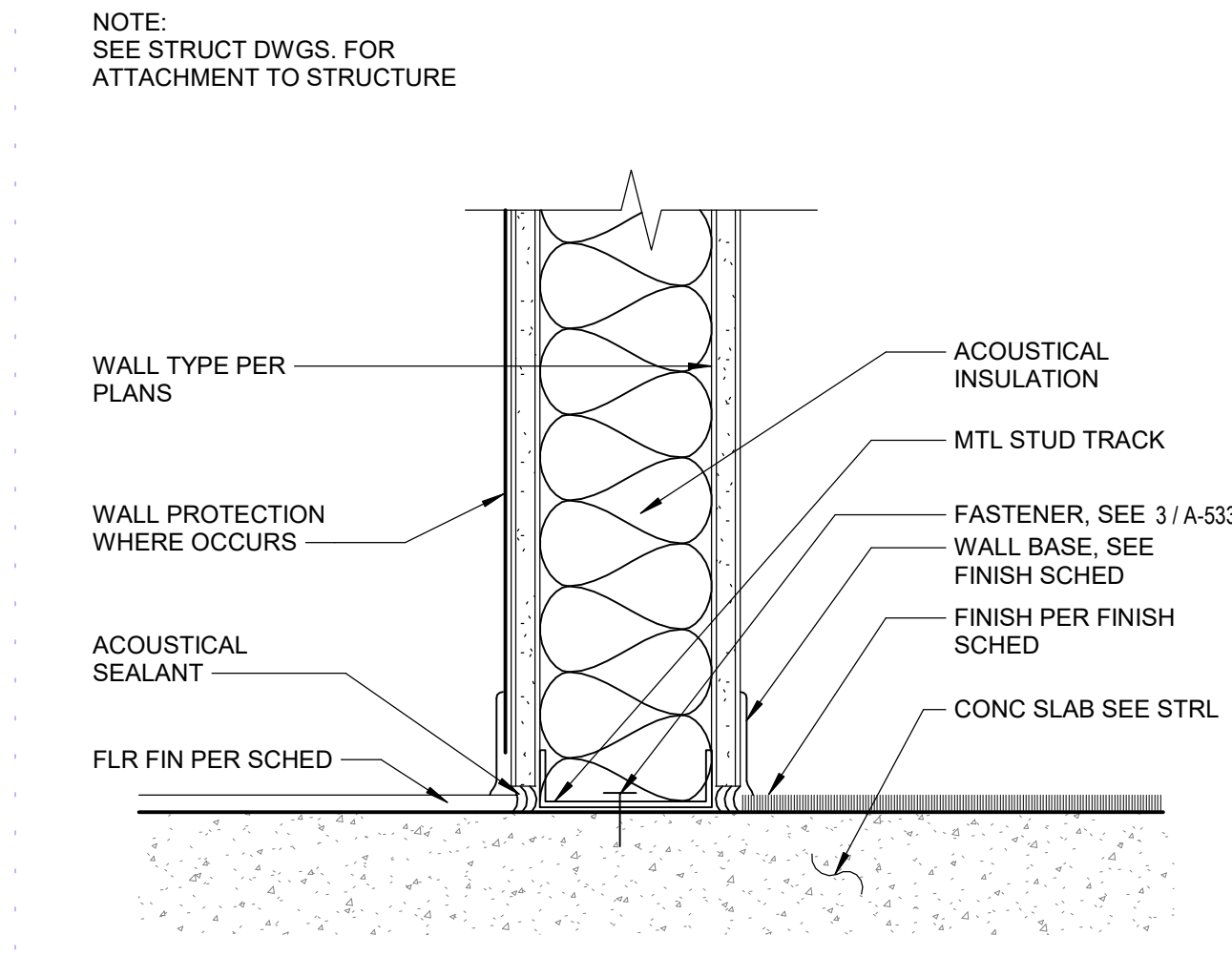
4 PARTITION TO (E) MULLION W/ SILL 2

3" = 1'-0" PARTITION TO (E) MULLION2



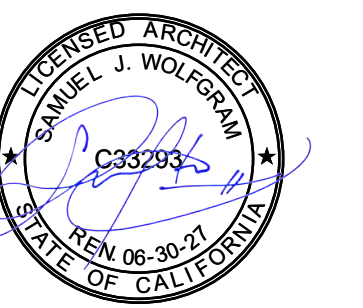
8 TYP NON RATED WALL TO (E) WALL CONNECTION

6" = 1'-0" 0540_TYP NON RATED WALL TO (E) INT WALL CONNECTION



12 MTL STUD WALL - BASE

3" = 1'-0" 0530_MTL STUD WALL - BASE



PROJECT PATHWAYS SUPPORT CENTER RENOVATION

3000 CAMPUS HILL DR
LIVERMORE, CA 94551

CLIENT
CHABOT-LAS POSITAS COMMUNITY COLLEGE
DISTRICT
3000 CAMPUS HILL DRIVE LIVERMORE, CA 94551

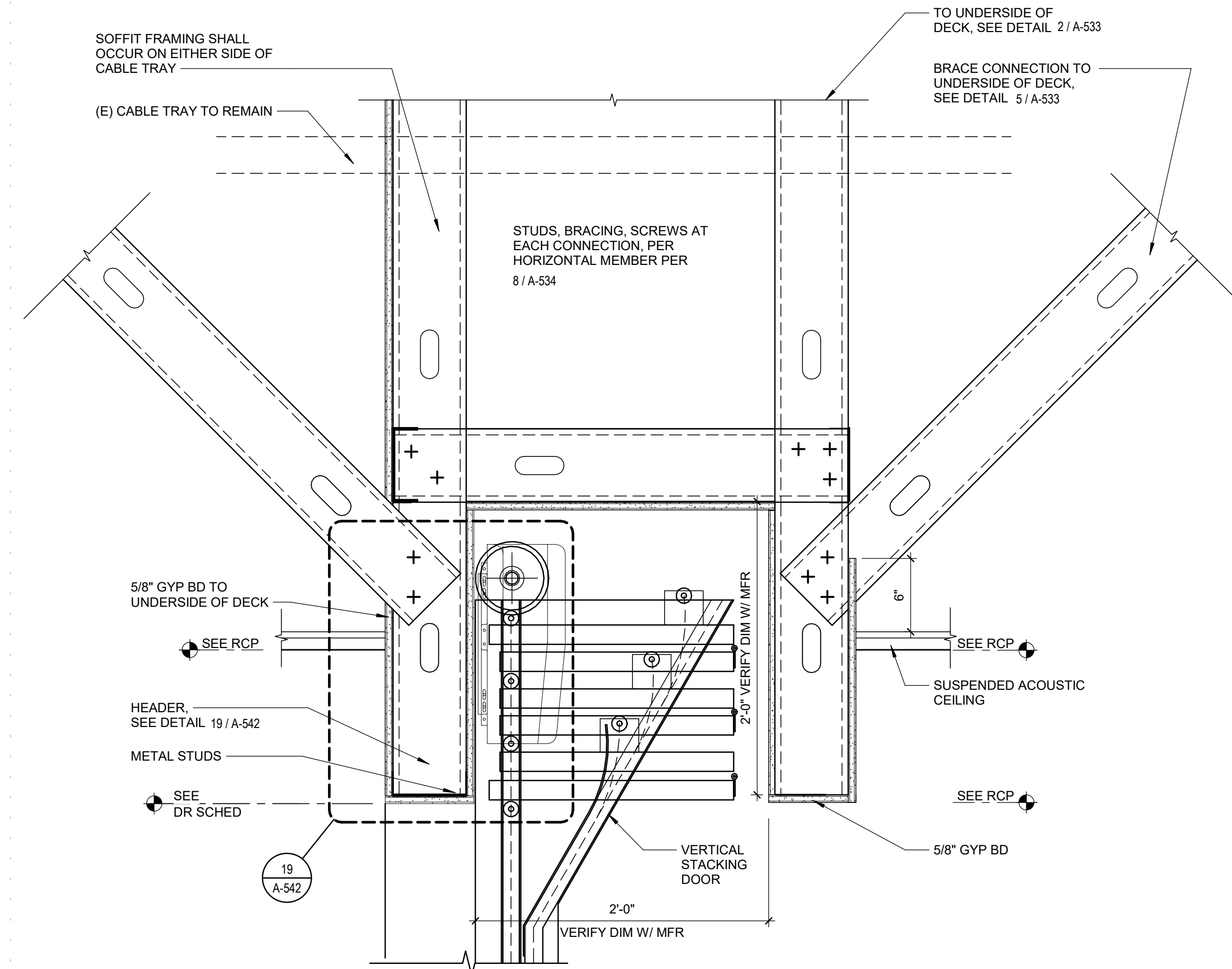
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TITLE DETAILS - PARTITION

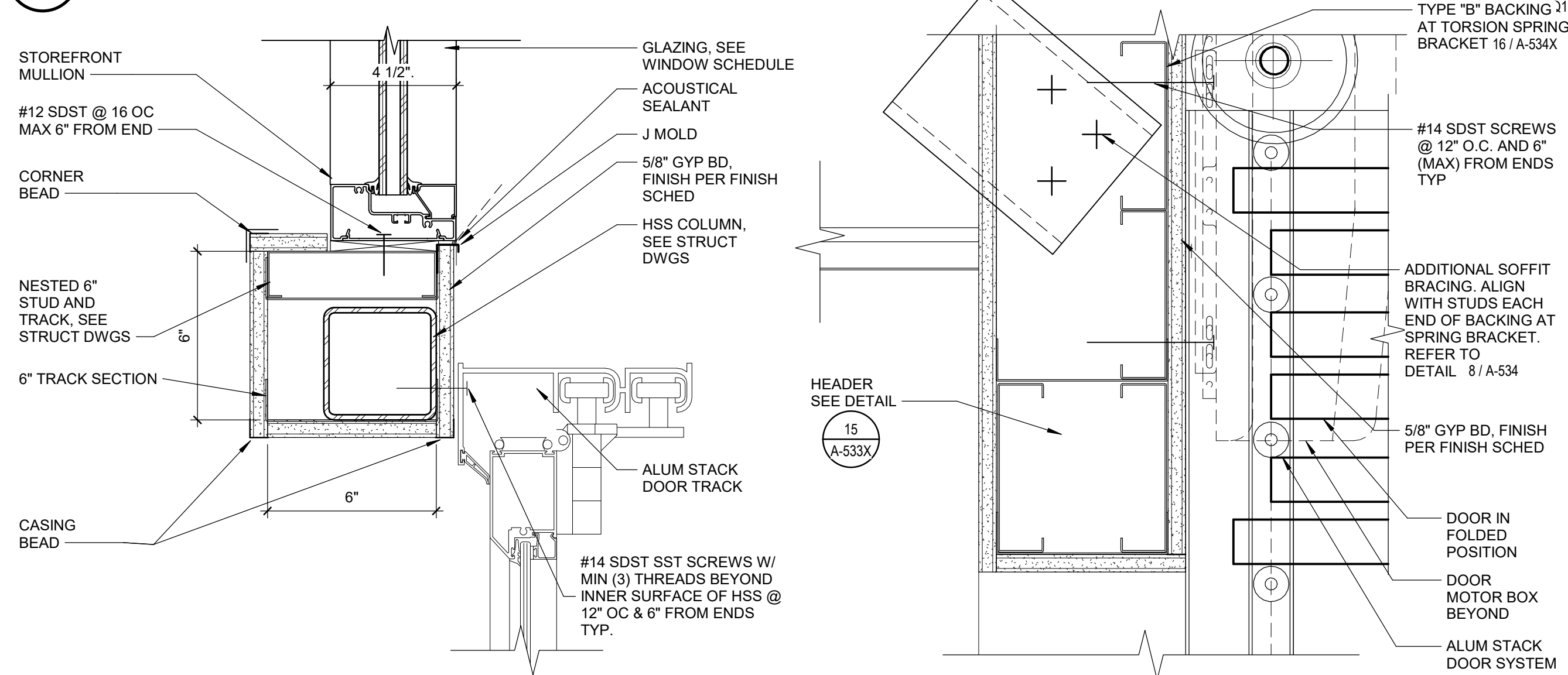
SHEET A-532

A-541



14 INTERIOR VERTICAL STACK DOOR

1 1/2" = 1'-0"

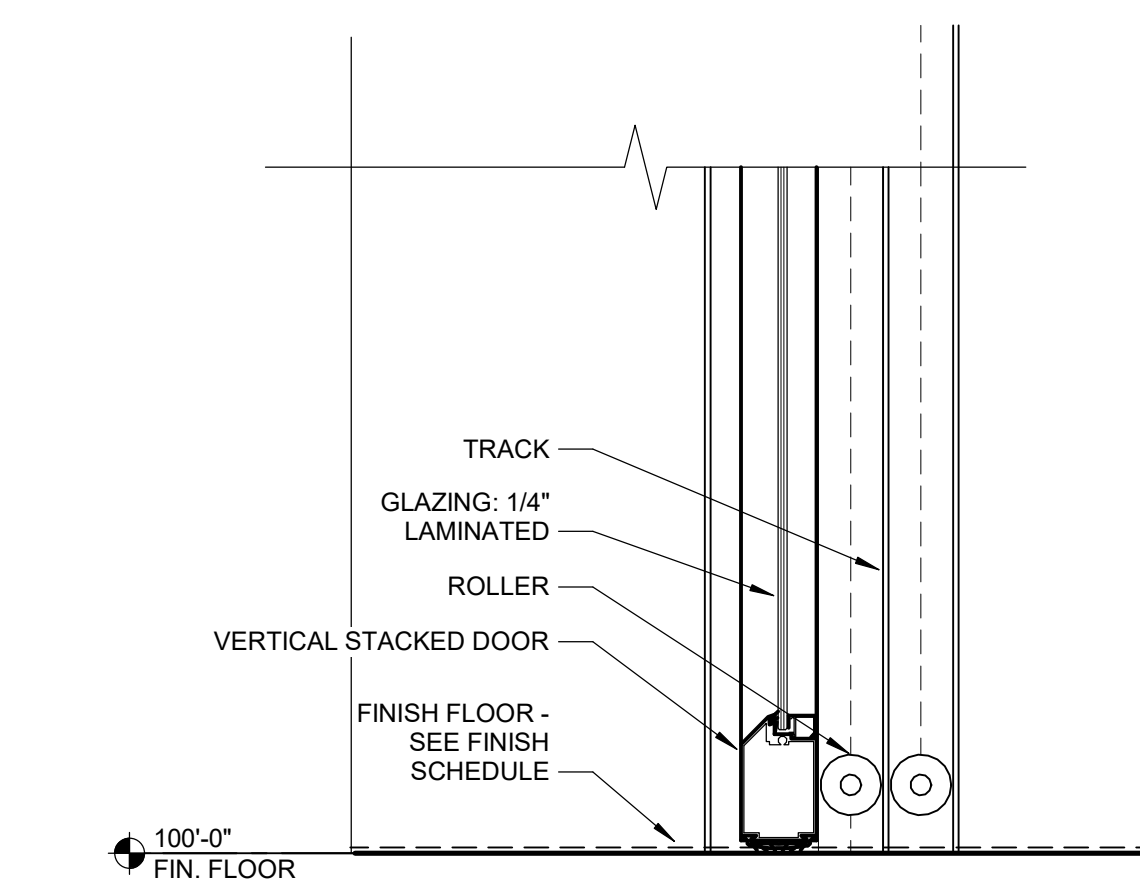


15 STACK DOOR SYSTEM JAMB

3" = 1'-0"

19 STACK DOOR SYSTEM HEAD

3" = 1'-0"



20 STACK DOOR SYSTEM THRESHOLD

3" = 1'-0"

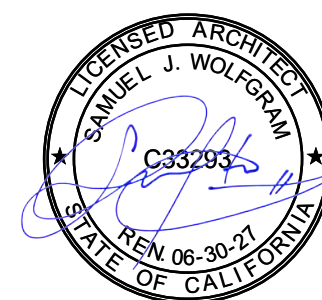
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122895 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 06/16/2026

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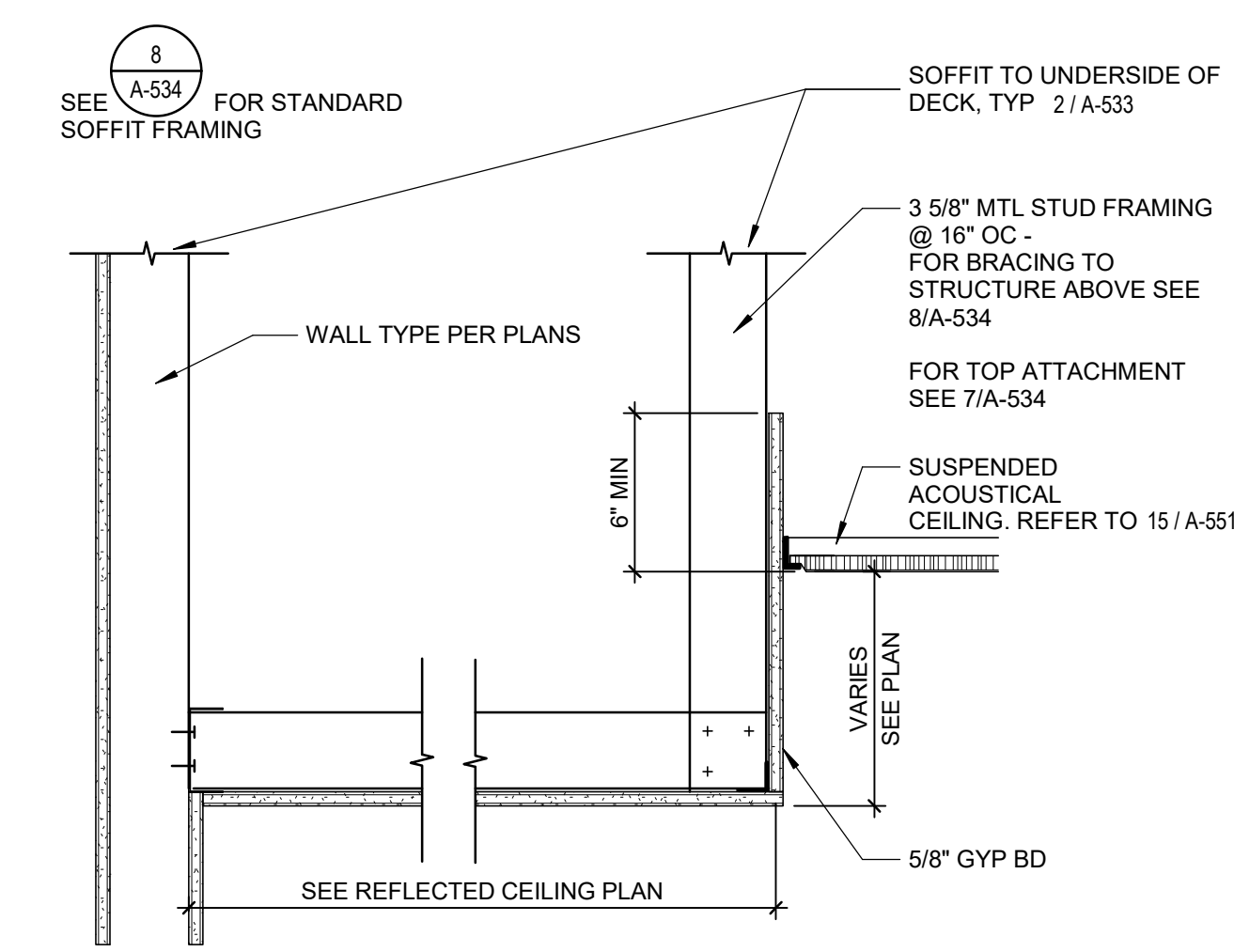
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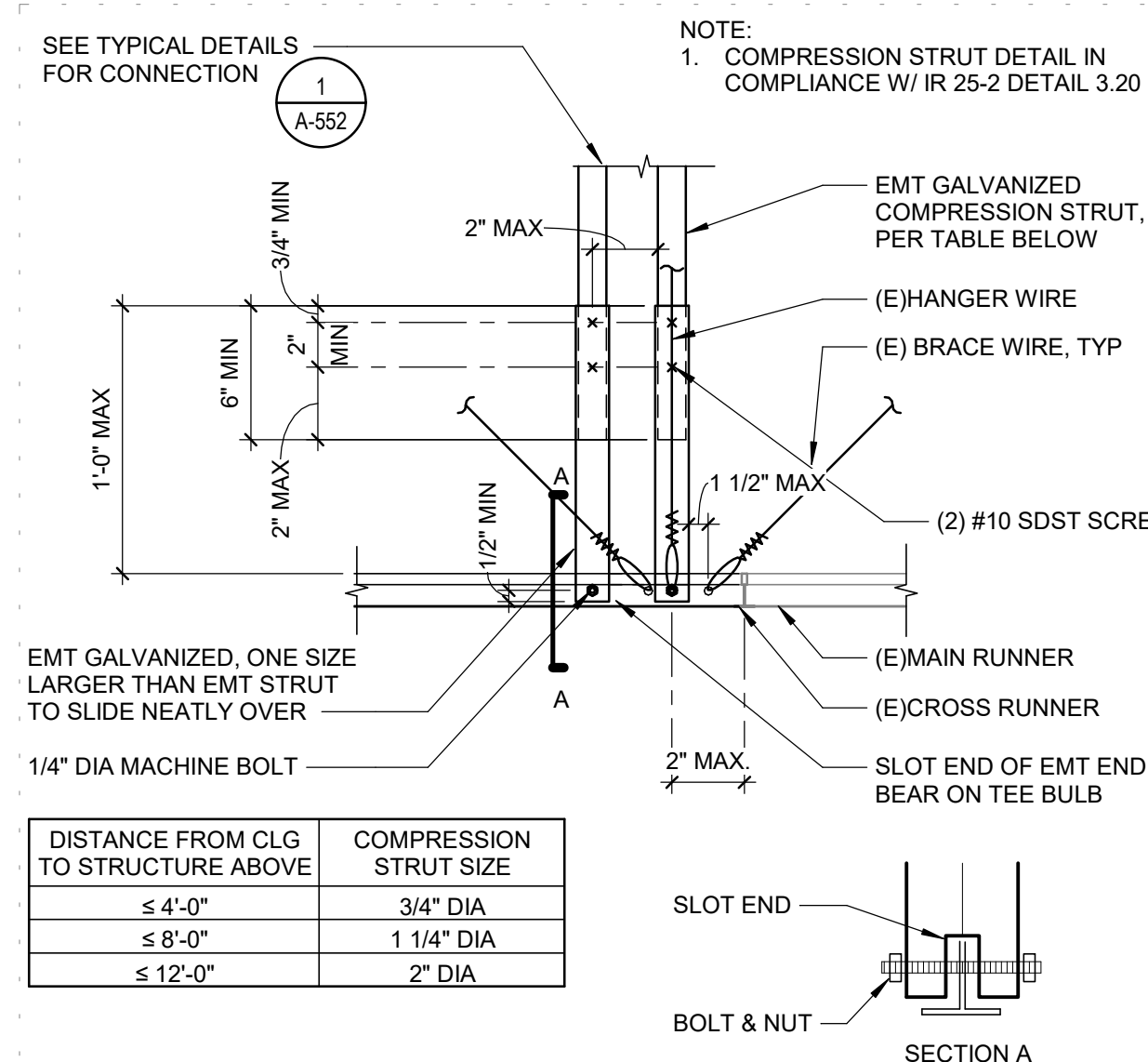
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TITLE
DETAILS - DOOR AND
WINDOW

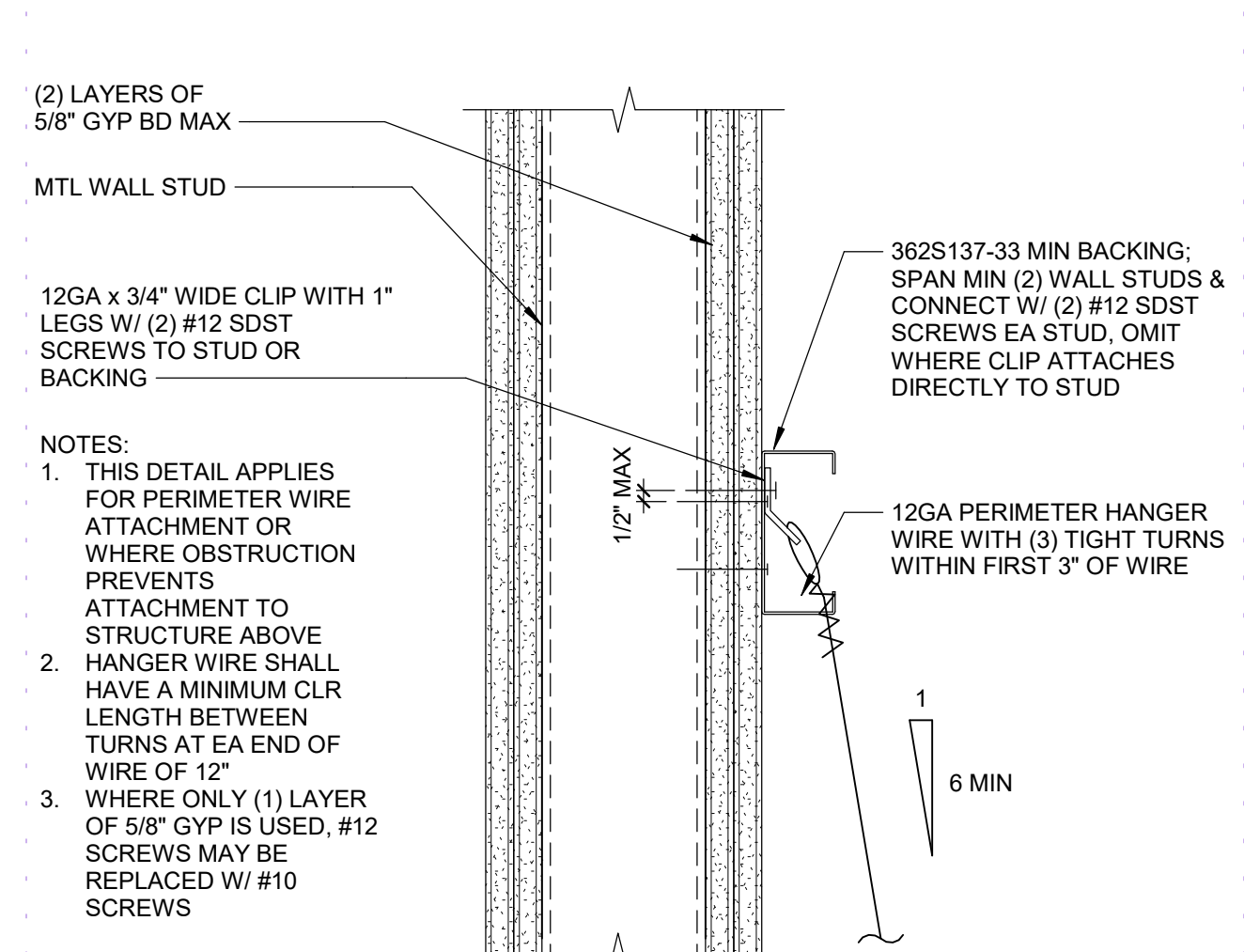
SHEET
A-542



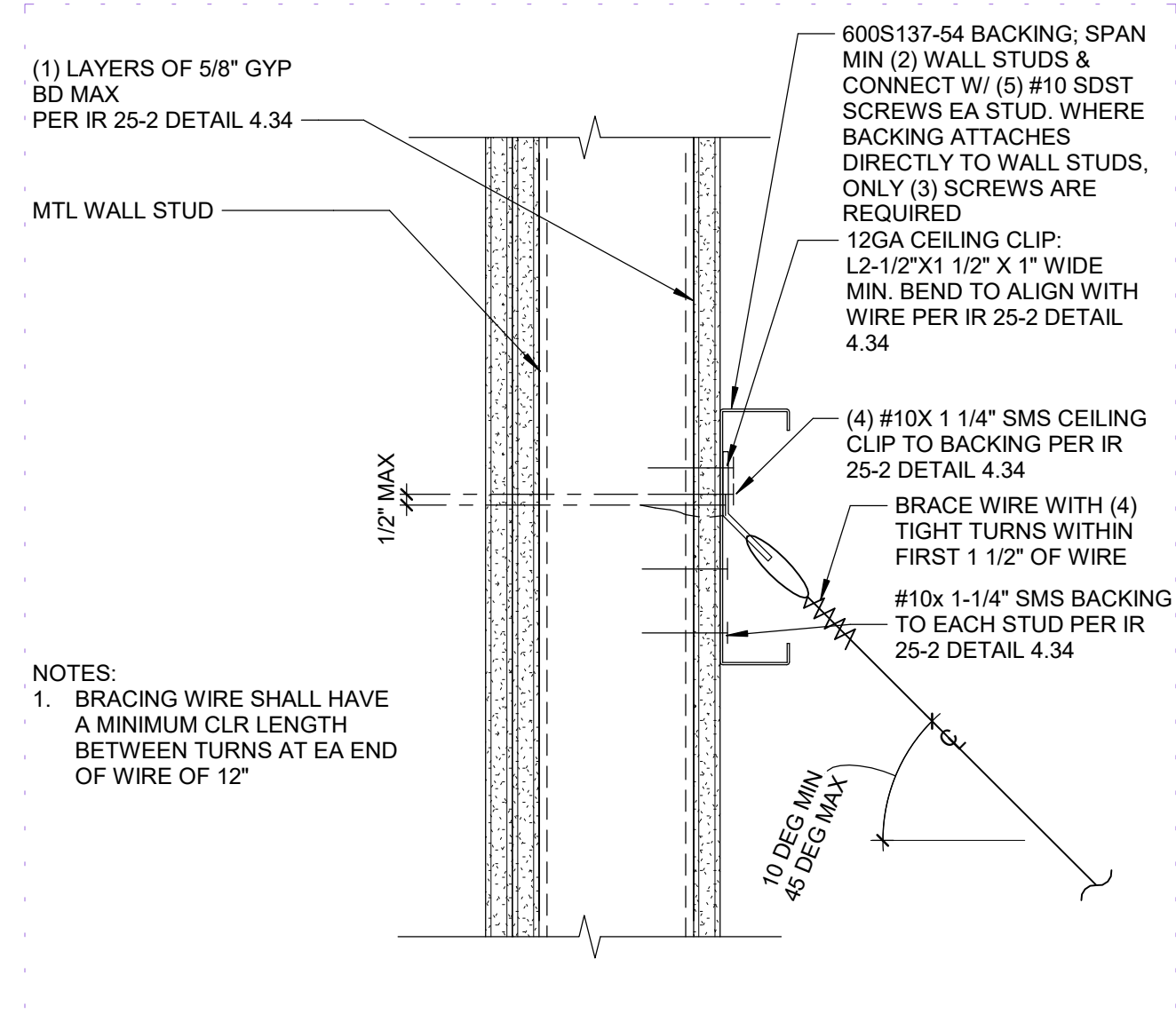
1 SOFFIT SECTION DETAIL



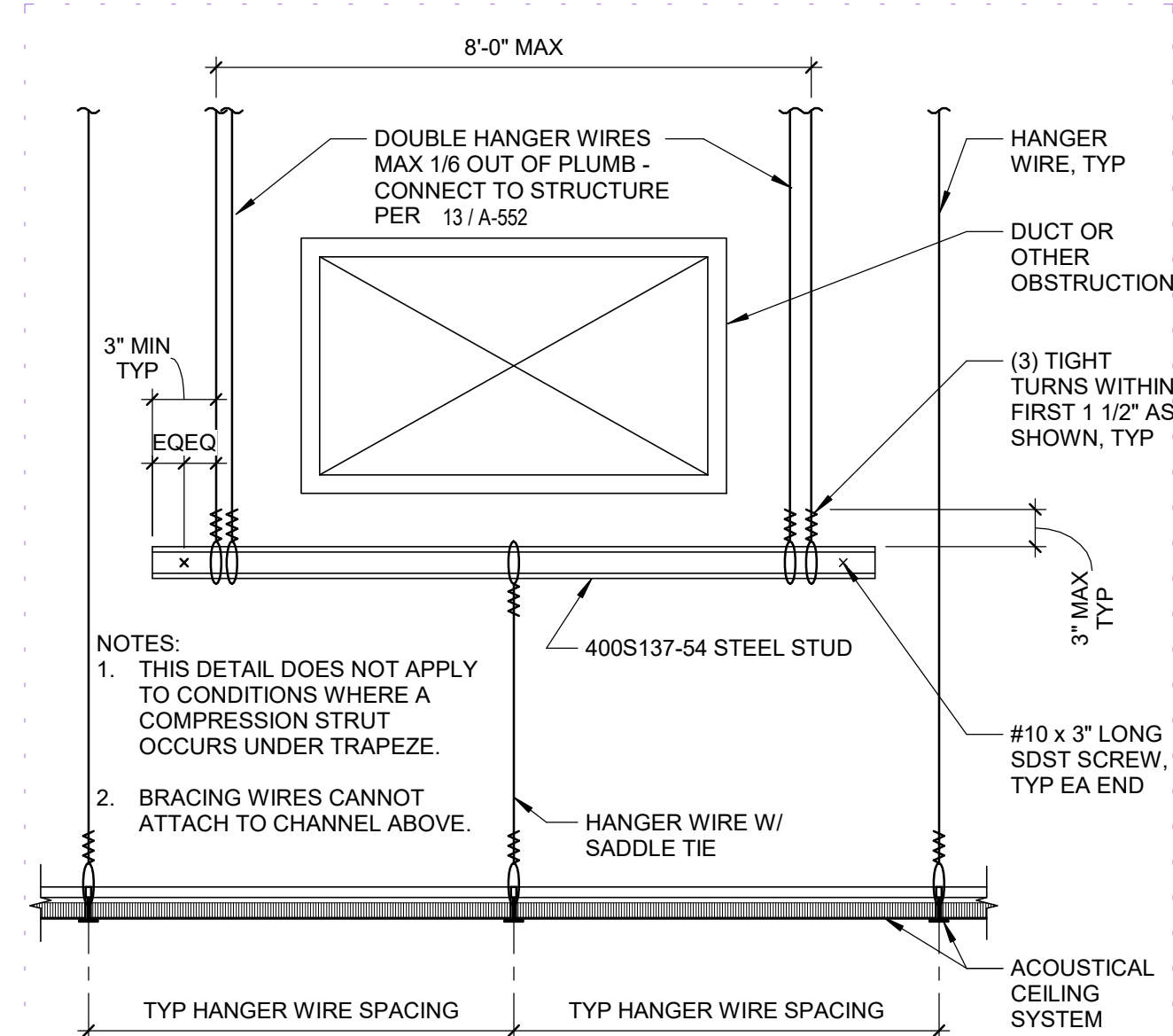
2 CEILING CONNECTION



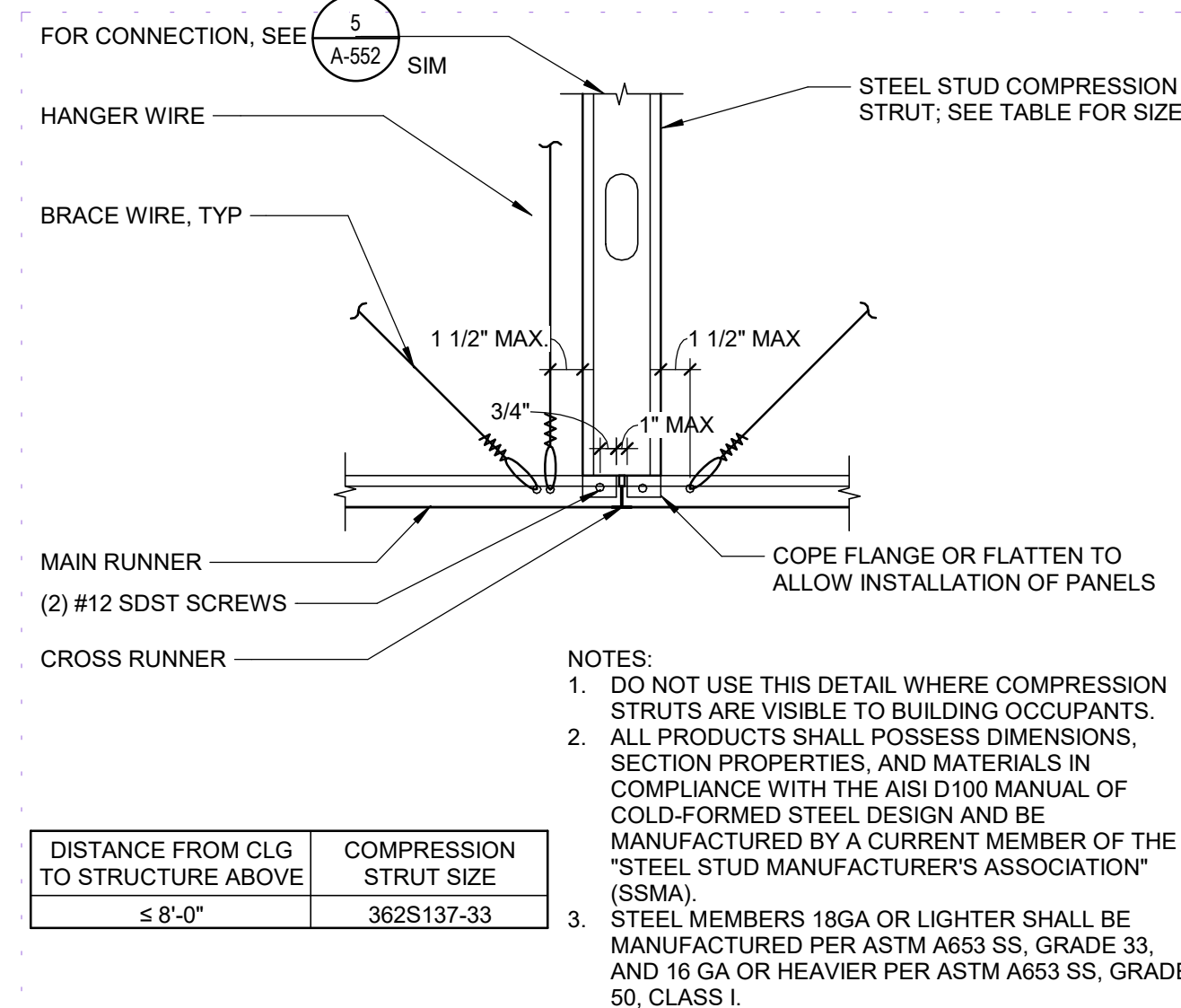
5 TYP HANGER WIRE TO STUD WALL



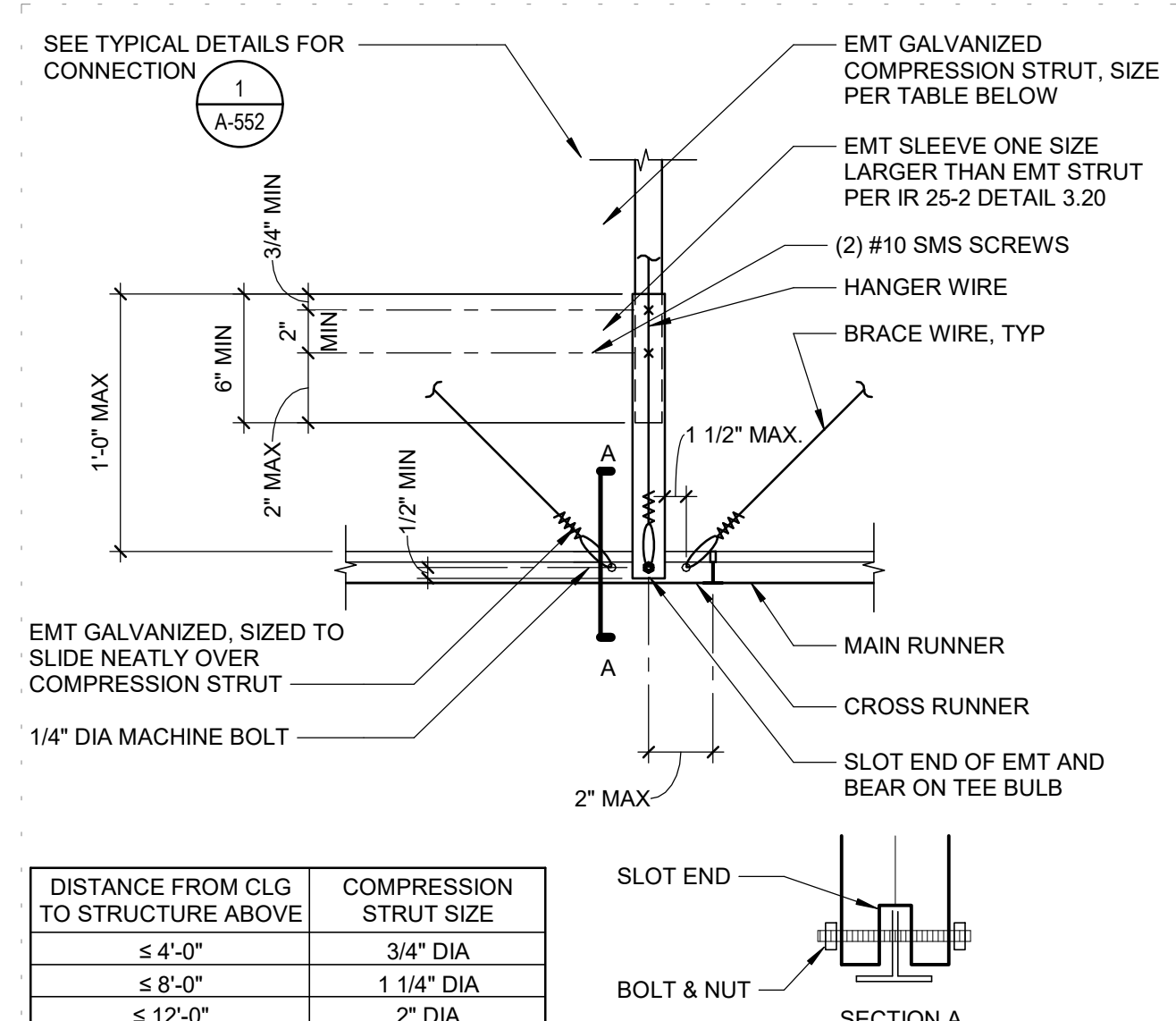
6 TYP BRACING WIRE TO STUD WALL



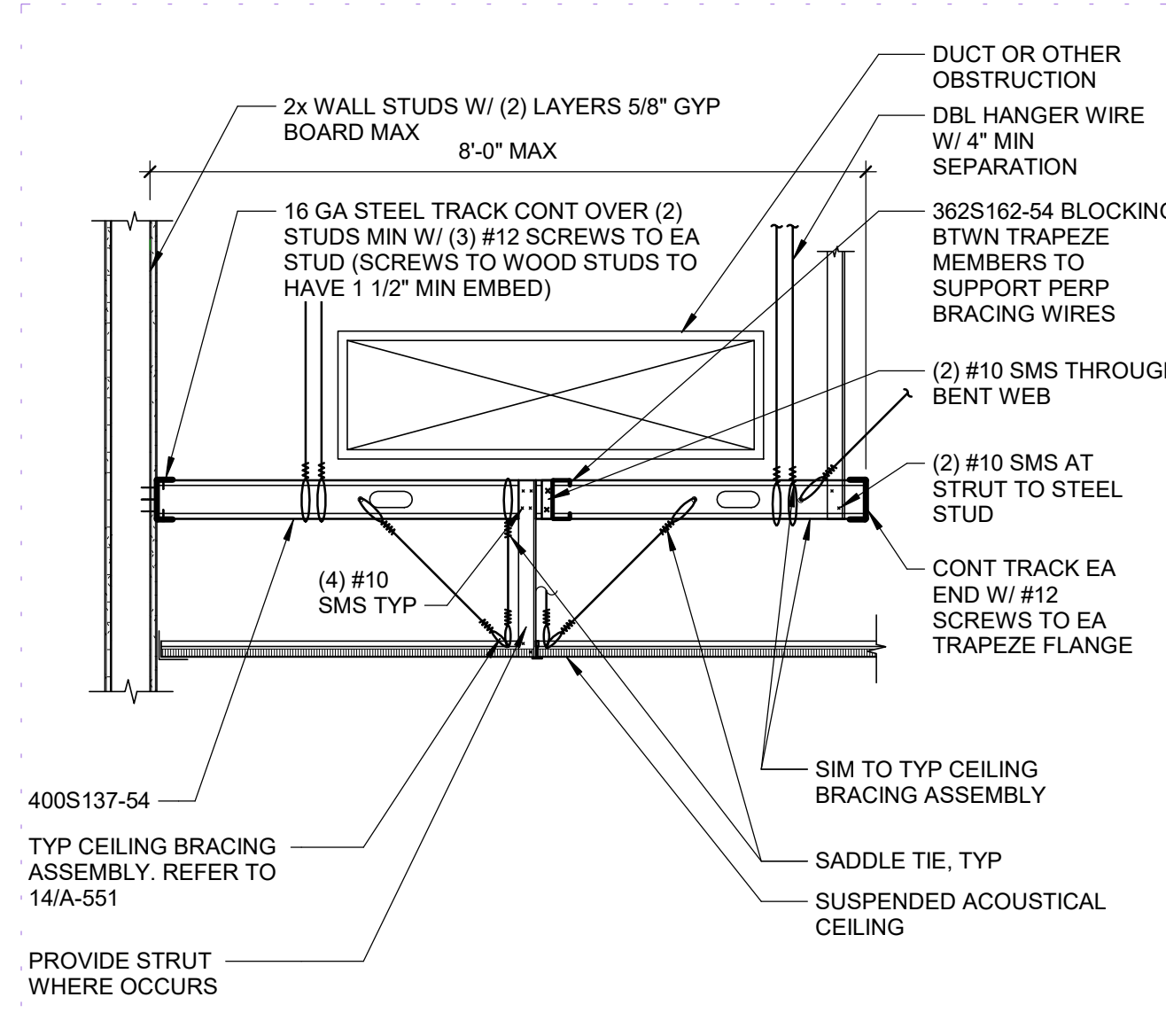
7 HANGER WIRE TRAPEZE



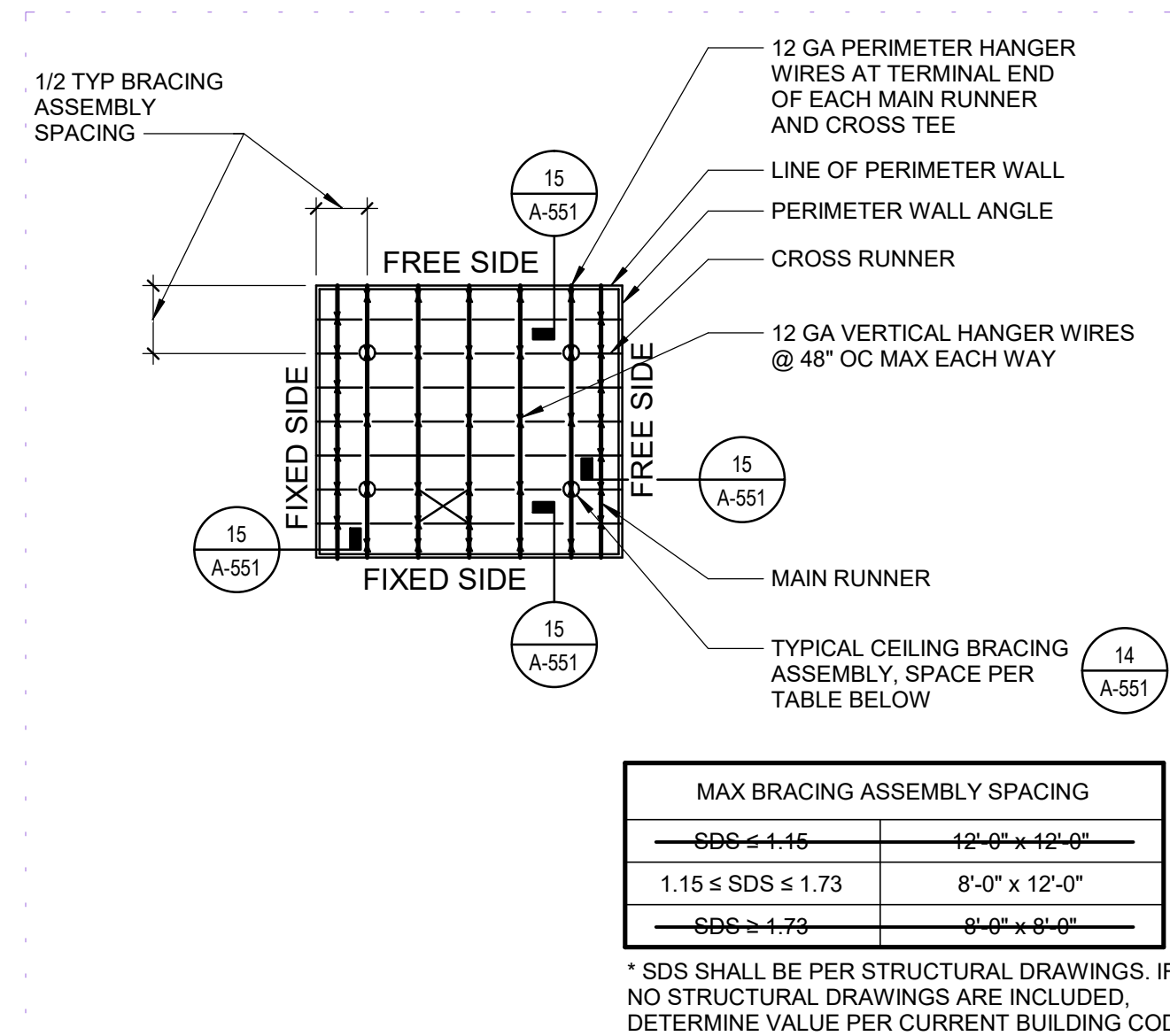
⑨ TYP STUD COMPRESSION STRUT



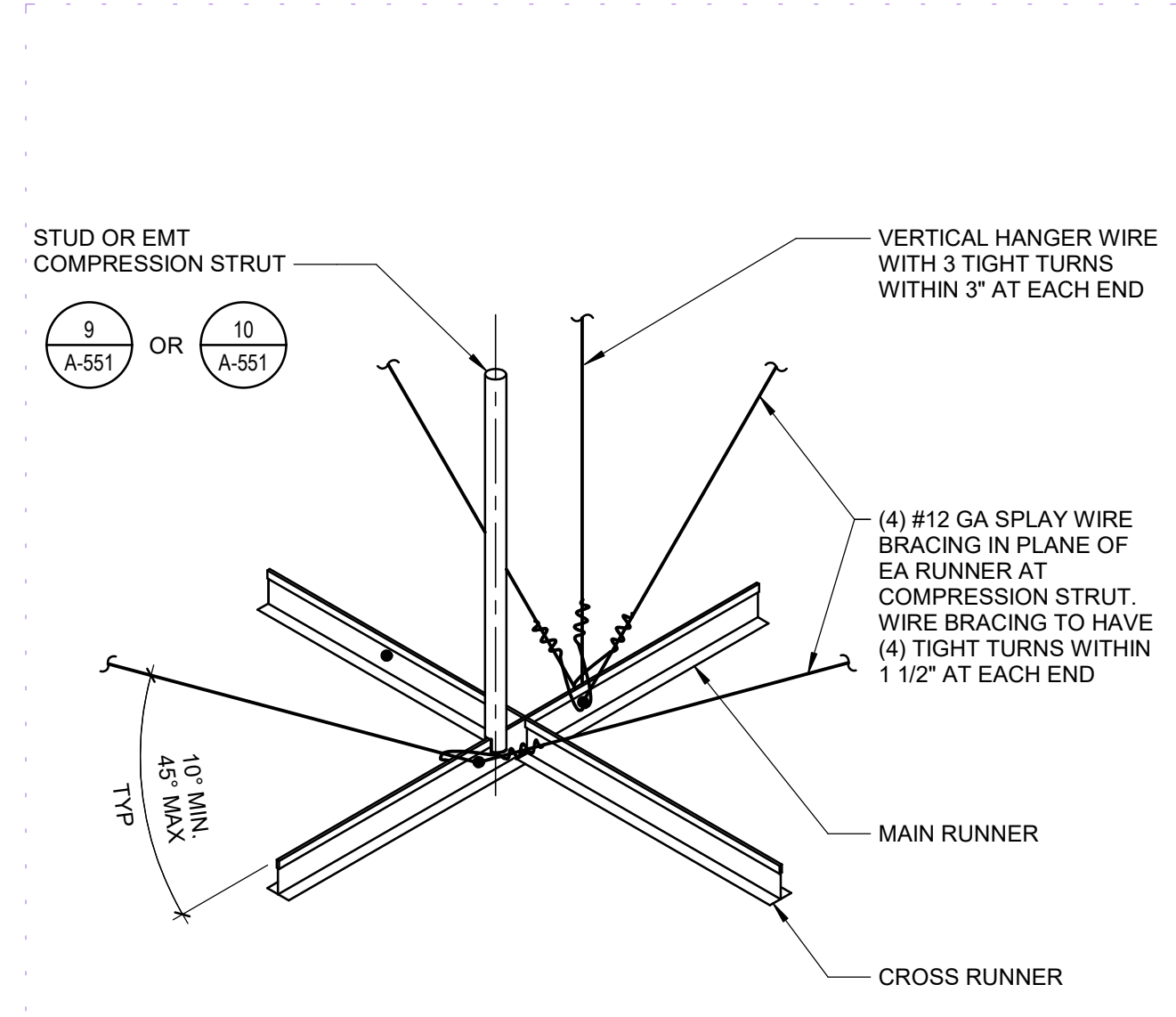
10 TYP EMT COMPRESSION STRUT



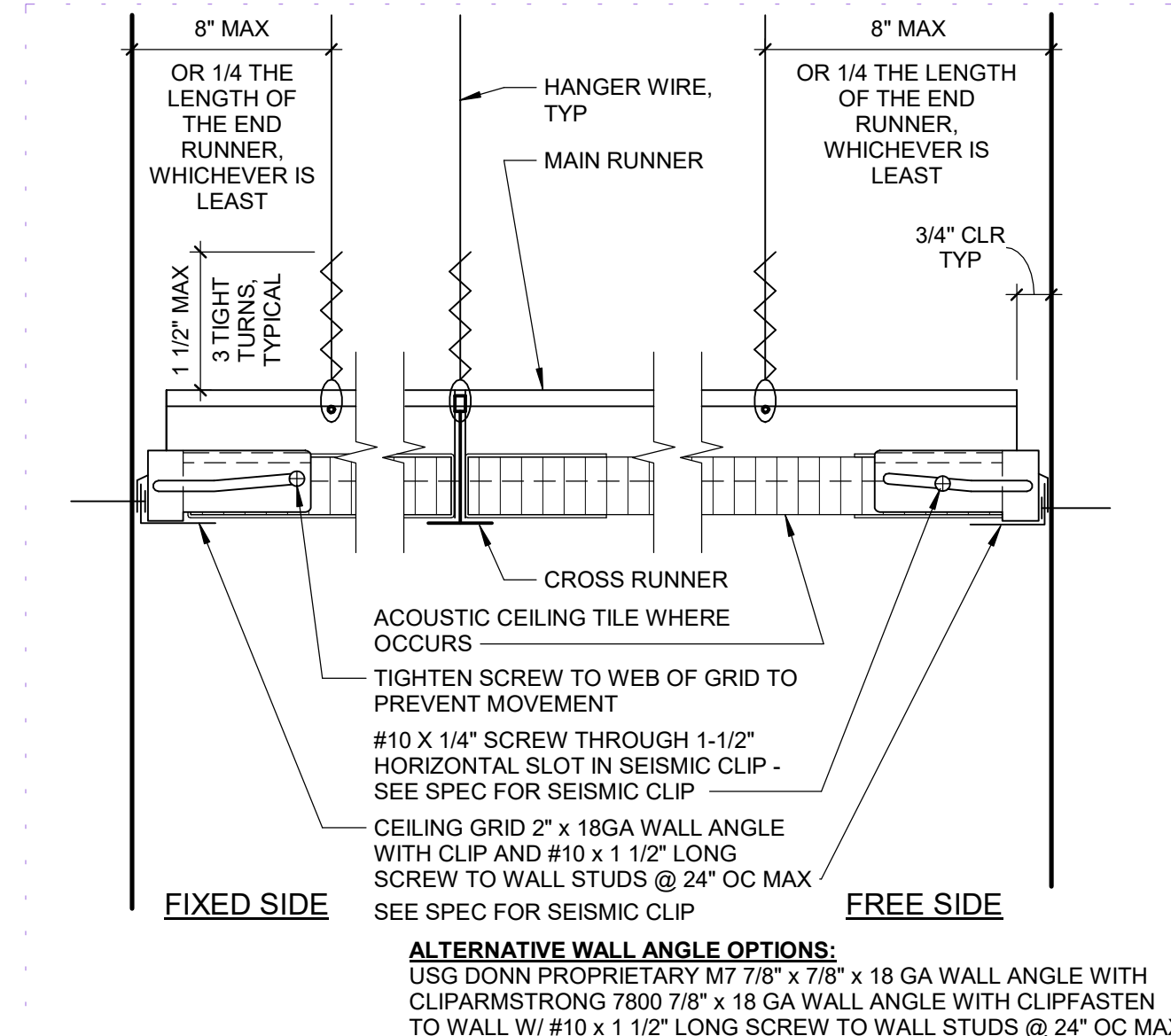
11 TRAPEZE AT COMPRESSION STRUT



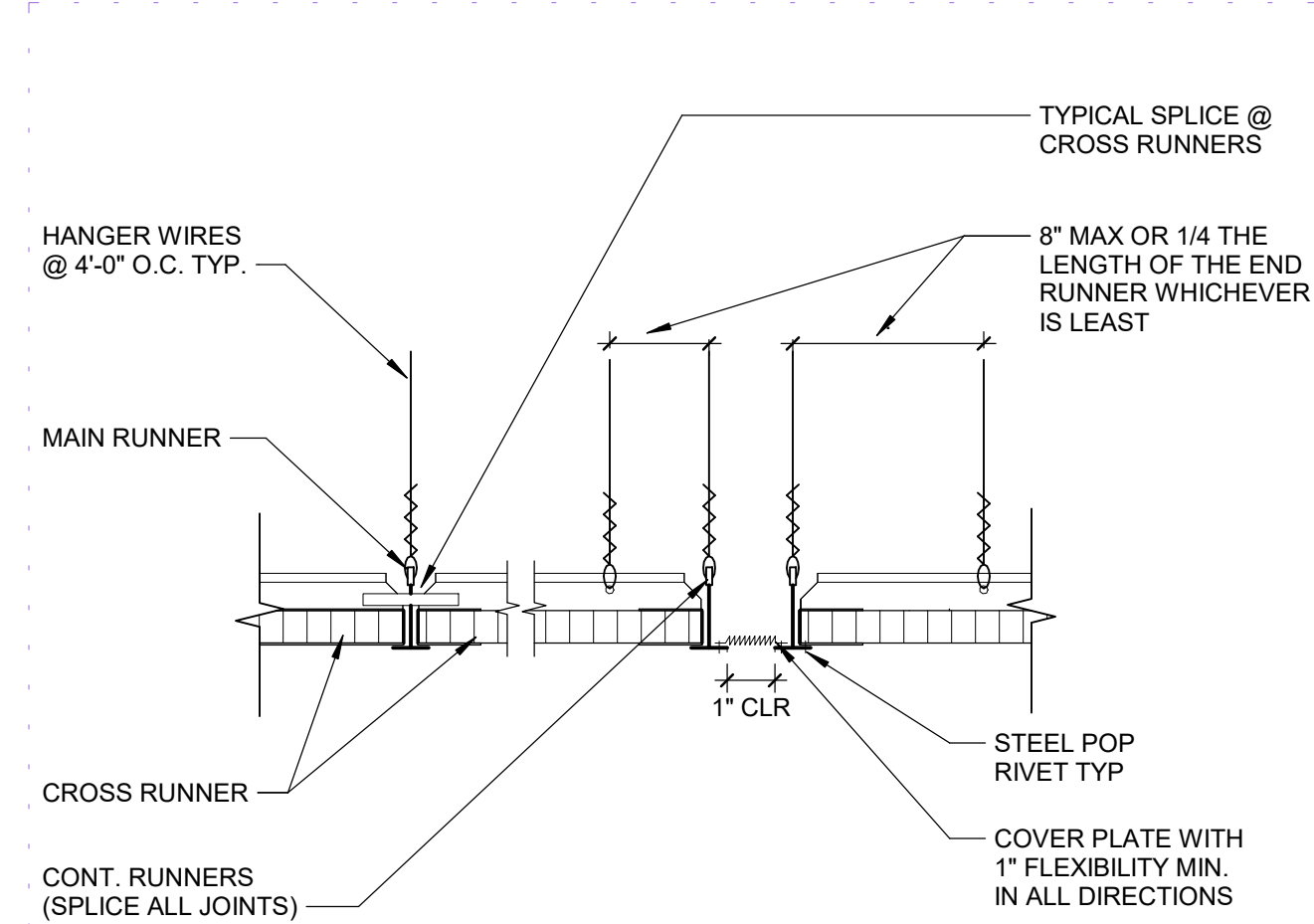
13 TYPICAL CEILING PLAN



14 TYP CEILING BRACING ASSEMBLY



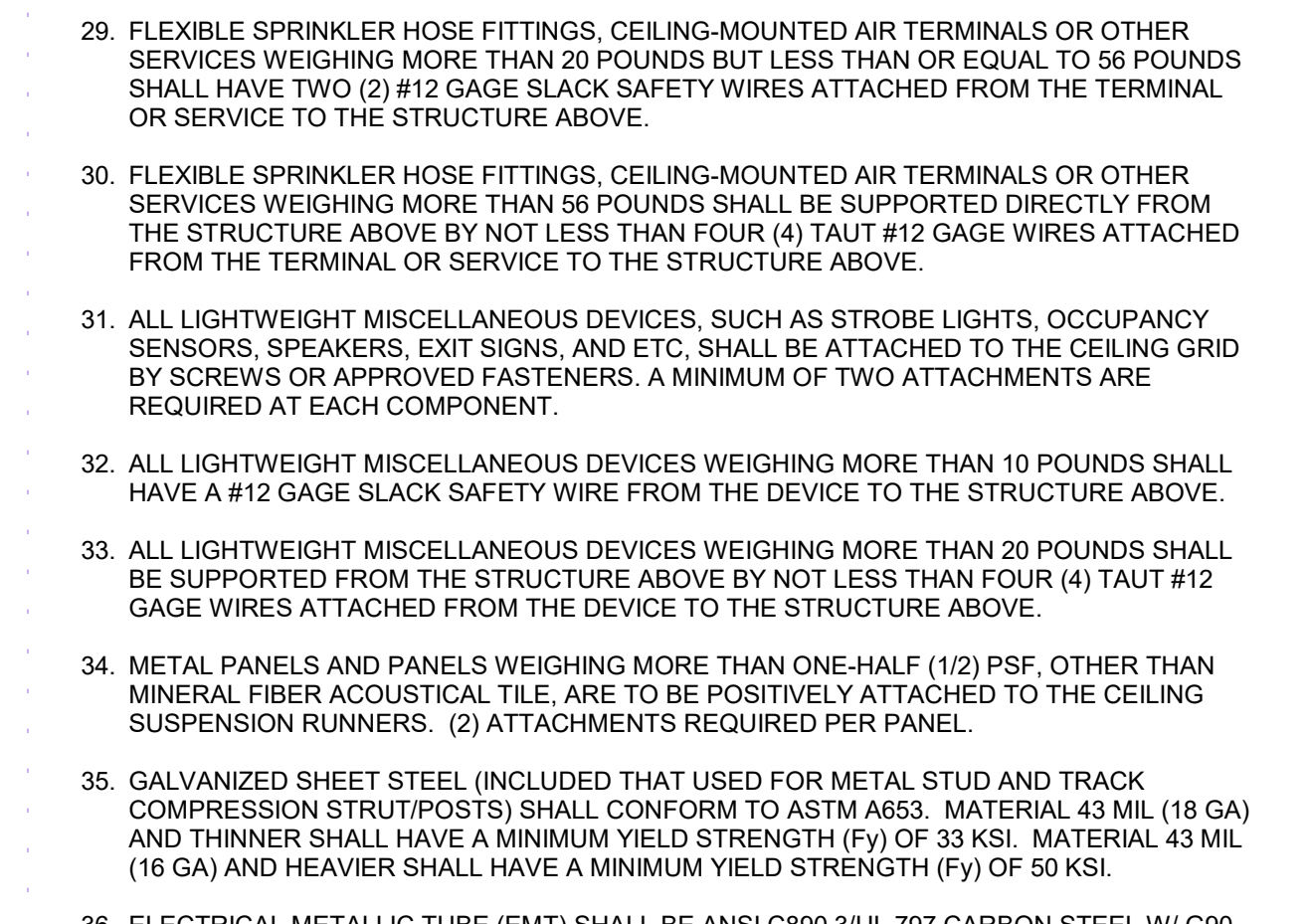
15 ACOUSTICAL CEILING EDGE



EXPANSION JT AT CORRIDOR
INTERSECTION

THESE REQUIREMENTS APPLY TO FLAT AND LEVEL CEILING SYSTEMS WHOSE TOTAL WEIGHT (INCLUDING CEILING-MOUNTED AIR TERMINALS, SERVICES, AND LIGHT FIXTURES) DOES NOT EXCEED FOUR (4) PSF.

1. SUSPENSION SYSTEM COMPONENTS SHALL COMPLY WITH ASTM C636 AND SECTION 5.1 OF ASTM E580.
2. THE CEILING GRID SYSTEM MUST BE RATED HEAVY-DUTY AS DEFINED BY ASTM C636.
3. CEILING WIRE MUST BE CLASS 1 ZINC COATED (GALVANIZED) CARBON STEEL CONFORMING TO ASTM A641. WIRE SHALL BE #12 GAGE (0.106" DIAMETER) WITH SOFT TEMPER AND A MINIMUM TENSILE STRENGTH OF 70 KSI.
4. MAIN RUNNERS, CROSS RUNNERS, SPLICES, EXPANSION DEVICES, AND INTERSECTION CONNECTORS SHALL BE DESIGNED TO CARRY A MEAN ULTIMATE TEST LOAD OF NOT LESS THAN 180 LBS IN COMPRESSION AND TENSION PER ASTM E580 SECTION 5.1.2.
5. SUSPENSION SYSTEM INSTALLATION SHALL COMPLY WITH ASTM C636, SECTION 5.2 OF ASTM E580, MANUFACTURER'S EVALUATION AGENCY REPORT, AND THE CONSTRUCTION DOCUMENTS.
6. CEILING GRID MEMBERS SHALL BE ATTACHED TO TWO (2) ADJACENT WALLS PER ASTM E580, SECTION 5.2.3. CEILING GRID MEMBERS SHALL BE AT LEAST 34 INCH CLEAR OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM RUNNERS, ONE END OF THE WALL AND CROSS RUNNERS SHOULD BE FREE, AND A MINIMUM OF 34 INCH CLEAR OF WALL.
7. EXPANSION JOINTS SHALL BE PROVIDED IN THE CEILING AT INTERSECTIONS OF CORRIDORS AND AT JUNCTIONS OF CORRIDORS AND LOBBIES OR OTHER SIMILAR AREAS.
8. FOR CEILING AREAS EXCEEDING 2,500 SQUARE FEET, A SEISMIC SEPARATION JOINT SHALL BE PROVIDED TO DIVIDE THE CEILING INTO AREAS NOT EXCEEDING 2,500 SQUARE FEET.
9. PENETRATIONS THROUGH THE CEILING FOR SPRINKLER HEADS AND OTHER SIMILAR DEVICES THAT ARE NOT INTRINSICALLY TIED TO THE CEILING SYSTEM IN THE LATERAL DIRECTION SHALL HAVE A TWO (2) INCH OVERSIZED RING, SLEEVE, OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FREE MOVEMENT OF ONE (1) INCH IN ALL HORIZONTAL DIRECTIONS. THE OVERSIZED RING, SLEEVE, OR ADAPTER SHALL BE A FLEXIBLE SPRINKLER HOSE FITTING THAT CAN ACCOMMODATE ONE (1) INCH OF CEILING MOVEMENT SHALL BE PERMITTED TO BE USED IN LIEU OF THE OVERSIZED RING, SLEEVE, OR ADAPTER.
10. LATERAL FORCE BRACING MAY BE OMITTED FOR SUSPENDED ACCESSIONAL CEILING SYSTEMS WITH A CEILING AREA OF 144 SQUARE FEET OR LESS.
11. FASTEN HANGER WIRES WITH NOT LESS THAN THREE (3) TIGHT TURNS IN THREE (3) INCHES. HANGER WIRE LOOPS SHALL BE TIGHTENED AND SHARPLY BENT TO PREVENT ANY VERTICAL MOVEMENT OR ROTATION OF THE MEMBER WITHIN THE LOOPS (SEE ASTM E580, SECTION 5.2.7.2).
12. FASTEN BRACING WIRES WITH FOUR (4) TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF ONE AND ONE-HALF (1 1/2) INCHES.
13. HANGER OR BRACING WIRE ANCHORED TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHOR ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE WIND.
14. SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST SIX (6) INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUITS, AND ETC.
15. HANGER WIRES SHALL NOT ATTACH TO OR BEND AROUND INTERFERING MATERIAL OR EQUIPMENT. 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.
16. HANGER WIRES THAT ARE MORE THAN ONE (HORIZONTAL) IN SIX (VERTICAL) OUT OF PLUMB SHALL HAVE COUNTERSLOPING WIRES. SEE ASTM C636 (FIGURE 1) FOR COUNTER-SLOPING METHODS.
17. ALL CEILING FIXTURES, TERMINALS, AND OTHER DEVICES SHALL BE MOUNTED IN A MANNER THAT WILL NOT COMPROMISE CEILING PERFORMANCE.
18. CEILING PANELS SHALL NOT SUPPORT ANY LIGHT FIXTURES, OR TERMINALS, OR DEVICES.
19. ALL LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEM BY SCREWS OR APPROVED FASTENERS. A MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH LIGHT FIXTURE PER ASTM E580, SECTION 5.3.1.
20. LIGHT FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LBS SHALL HAVE A MINIMUM OF ONE (1) #12 GAGE SLACK SAFETY WIRE CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE.
21. LIGHT FIXTURES WEIGHING GREATER THAN 10 LBS BUT LESS THAN OR EQUAL TO 56 LBS MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS, BUT THEY SHALL HAVE A MINIMUM OF TWO (2) #12 GAGE SLACK SAFETY WIRES CONNECTED FROM THE FIXTURE HOUSING AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE.
22. LIGHT FIXTURES WEIGHING GREATER THAN 56 LBS SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAIT #12 GAGE WIRES ATTACHED TO THE HOUSING AND TO THE STRUCTURE ABOVE.
23. ALL FOUR FOOT BY FOUR FOOT LIGHT FIXTURES MUST HAVE SLACK SAFETY WIRES AT EACH CORNER UNLESS SUPPORTED AS FOR FIXTURES WEIGHING GREATER THAN 56 LBS.
24. SURFACE-MOUNTED FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES MADE OF MATERIAL WITH A MINIMUM #14 GAGE. ROTATIONAL SPRING CATCHES DO NOT COMPLY. A #12 GAGE SUSPENSION WIRE SHALL BE ATTACHED FROM EACH SPRING DEVICE TO THE STRUCTURE ABOVE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE EIGHT (8) FEET OR LONGER. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED EIGHT (8) FEET.
25. SUPPORT PENDANT-MOUNTED LIGHT FIXTURES DIRECTLY FROM THE STRUCTURE ABOVE WITH HANGER WIRES OR CABLES PASSING THROUGH EACH PENDANT HANGER AS SHOWN ON ELECTRICAL DWG. PENDANT-MOUNTED LIGHT FIXTURES SHALL BE DIRECTLY AND INDEPENDENTLY BRACED BELOW THE CEILING. IE, AIRCRAFT CABLES TO WALLS, THEN A BRACE ASSEMBLY IS NOT REQUIRED ABOVE THE CEILING. IF THE PENDANT-MOUNTED LIGHT FIXTURE IS NOT LONG ENOUGH TO NOT PENETRATE BRACE BELOW THE CEILING, THEN A TYPICAL BRACING ASSEMBLY IS REQUIRED WHERE THE PENDANT HANGER PENETRATES THE CEILING. WHERE THE WEIGHT OF THE FIXTURE IS LESS THAN 20 POUNDS, A COMPRESSION STRUT IS NOT REQUIRED FOR THE BRACING ASSEMBLY.
26. RIGID CONDUIT SHALL NOT BE USED FOR ATTACHMENT OF THE FIXTURES.
27. ALL FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEM BY SCREWS OR APPROVED FASTENERS. A MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH COMPONENT.
28. FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING LESS THAN OR EQUAL TO 20 POUNDS SHALL HAVE ONE (1) 12 GAGE SLACK SAFETY WIRE CONNECTED FROM THE HOUSING TO THE STRUCTURE ABOVE.



20 SUSPENDED CEILING NOTES



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3000 CAMPUS HILL DRIVE LIVERMORE, CA 9455

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SHEET

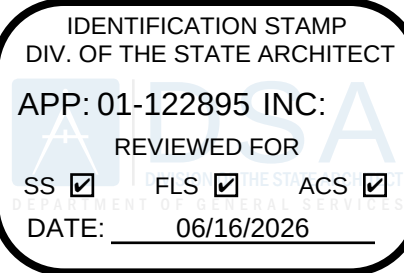
A-552

0 1/4" 1/2" 1" 2" 3" 4" 5" 6" 7" 8" 9" 10" 11" 12" IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

DOOR SCHEDULE																						
DOOR NO	LOCATION	FIRE RATING (MINS)	HDW GP	DOORS							FRAMES							STC	SECURITY	KEYING ACCESS	SIGNAGE	COMMENTS
				TYPE	WIDTH	LEAF 2 TYPE WIDTH	MATL	HEIGHT	FINISH	GL	TYPE	MATL	FINISH	GL	HEAD	JAMB	SILL					
1602A	CONFERENCE ROOM	0	104	DG1	3'-0"		ALUM	7'-0"	ANOD	GL	WIND : A5	ALUM	ANOD		1/A-541	1/A-541	6/A-541					
1602B	OFFICE	0	105	DV2	3'-0"		WD	7'-0"	ST	GL	FT1	HM	ANOD		1/A-541	1/A-541	6/A-541					
1602C	GALLERY	0	101	DG2	3'-0"	DG2 3'-0"	ALUM	7'-0"	ANOD	GL	WIND : A2	ALUM	ANOD		1/A-541	1/A-541	6/A-541					
1602D	CORRIDOR	0	103	DV2	3'-0"		WD	7'-0"	ST	GL	FT1	HM	PT	GL	1/A-541	1/A-541	6/A-541					
1604B	OFFICE	0	(none)		3'-0"		WD	7'-0"	ST	GL	FT1	HM	PT	GL	1/A-541	1/A-541	6/A-541					
1604C	CAREER CENTER	0	(none)	DG1	3'-0"		ALUM	7'-0"	ANOD	GL-1	WIND : A0	ALUM	ANOD		1/A-541	1/A-541	6/A-541					
1604E	PATHWAY SUPPORT CENTER	0	(none)	DO3C	10'-0"		ANOD	9'-0"	ANOD	Glass	FO3 - FO2 2	ANOD	ANOD	--	11/A-541	11/A-541	8/A-541					
1604L		0	(none)		10'-0"		--	9'-0"	--	--	FB1	--	--	--								

DOOR SCHEDULE GENERAL NOTES

- GENERAL DOOR SHEET NOTES ARE TYPICAL UNLESS NOTED OTHERWISE.
- FLOORS OR LANDINGS ON EACH SIDE OF EXIT DOORS SHALL NOT EXCEED 1/2' FROM THE TOP OF THE DOOR THRESHOLD TO THE FLOOR OR LANDING SURFACE ON EITHER SIDE OF THE DOOR ASSEMBLY.
- EXITS AND EXIT ACCESS DOORS SHALL BE MARKED BY AN APPROVED EXIT SIGN READILY VISIBLE FROM ANY DIRECTION OF TRAVEL.
- THE FORCE FOR PUSHING OR PULLING OPEN INTERIOR SWINGING EGRESS DOORS, OTHER THAN FIRE DOORS, SHALL NOT EXCEED 5 POUNDS. FOR OTHER SWINGING DOORS, AS WELL AS SLIDING AND FOLDING DOORS, THE DOOR LATCH SHALL RELEASE WHEN SUBJECTED TO A 15 POUND MAXIMUM FORCE.
- LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE IN THE PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, PANIC BARS, PUSH-PULL ACTIVATING BARS OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP, PINCH OR TWIST THE OPENING HARDWARE.
- THE BOTTOM 10" OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING DOORS SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. WHERE NARROW FRAME DOORS ARE USED, A 10" HIGH SMOOTH PANEL SHALL BE INSTALLED ON THE PUSH SIDE OF THE DOOR, WHICH WILL ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.
- RATED DOORS SHALL BE POSITIVE LATCHING AND SELF CLOSING.
- FIRE RATED DOORS AND GLASS SHALL HAVE AN APPROVED LABEL OR LISTING MARK INDICATING THE FIRE PROTECTION RATING WHICH IS PERMANENTLY AFFIXED AT THE FACTORY WHERE FABRICATION AND ASSEMBLY OCCUR.
- DOOR AND FRAME ASSEMBLY DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION AND INSTALLATION.
- COORDINATE OVERALL DOOR FRAME DEPTHS WITH WALL TYPES.
- FOR DOOR HARDWARE GROUPS, SEE PROJECT SPECIFICATIONS.
- FOR SIGNAGE LOCATIONS, SEE SIGNAGE PLANS.
- FOR SIGNAGE ON OR ADJACENT TO DOORS, SEE SHEET SERIES G-100.
- GLASS DOORS, SIDELIGHTS, AND GLAZED OPENINGS WITHIN 18" OF THE FLOOR OR WITHIN 24" HORIZONTALLY OF ANY DOOR OPENING SHALL BE FULLY TEMPERED GLASS APPROVED FOR IMPACT HAZARD.
- PROVIDE RATED GLASS AT RATED DOORS AND FRAMES WITH LITES. SEE DOOR SCHEDULE AND PROJECT SPECIFICATIONS.
- COORDINATE THE SIZE AND LOCATION OF RECESSES IN CONCRETE FLOORS FOR RECESSED DOOR HARDWARE.
- SEE SECURITY DRAWINGS FOR DOORS WITH CARD READERS AND OTHER SECURITY ELECTRONICS. COORDINATE WITH ELECTRICAL.
- HOLLOW METAL FRAMES IN MASONRY CONSTRUCTION SHALL BE GROUTED FULL.

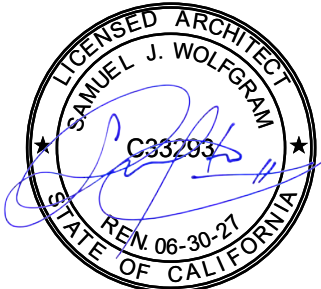


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DISTRICT
3000 CAMPUS HILL DRIVE LIVERMORE, CA 94551

LEGEND

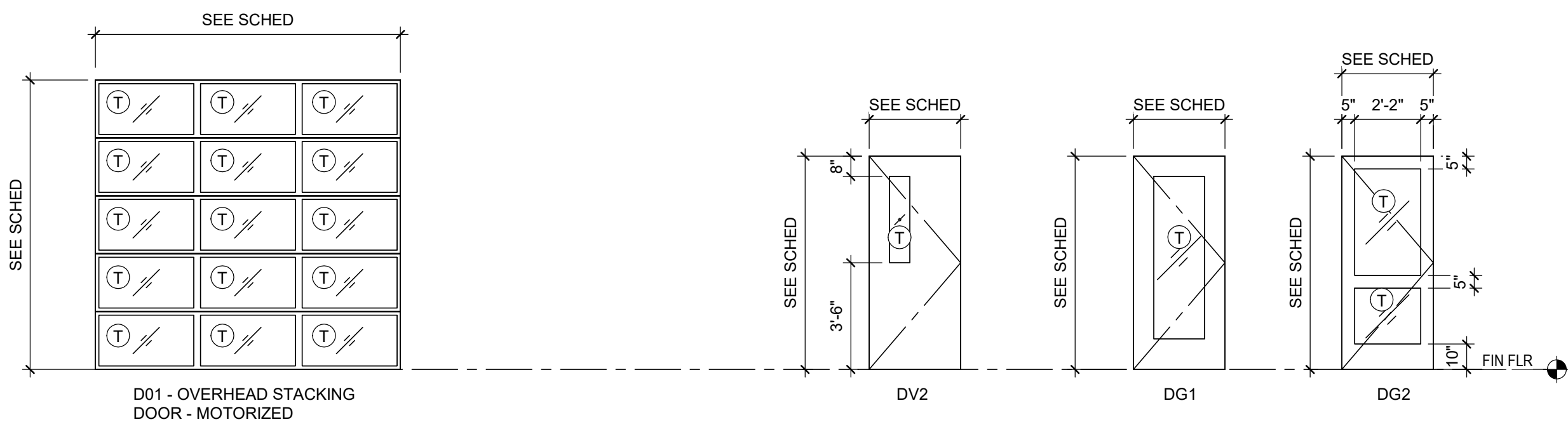
- (E) = EXISTING
ADO = AUTOMATIC DOOR OPERATOR
ADC = AUTOMATIC DOOR CLOSER
OR = CARD READER
EL = ELECTRIC LOCK
HDW GP = HARDWARE GROUP
HO = HOLD OPEN
PH = PANIC HARDWARE
V = VINYL STRIPS

GLASS LEGEND:
GL = GLASS
LG = LEADED GLASS
RG = RATED GLASS
SG = SPANDREL GLASS
TG = TEMPERED GLASS

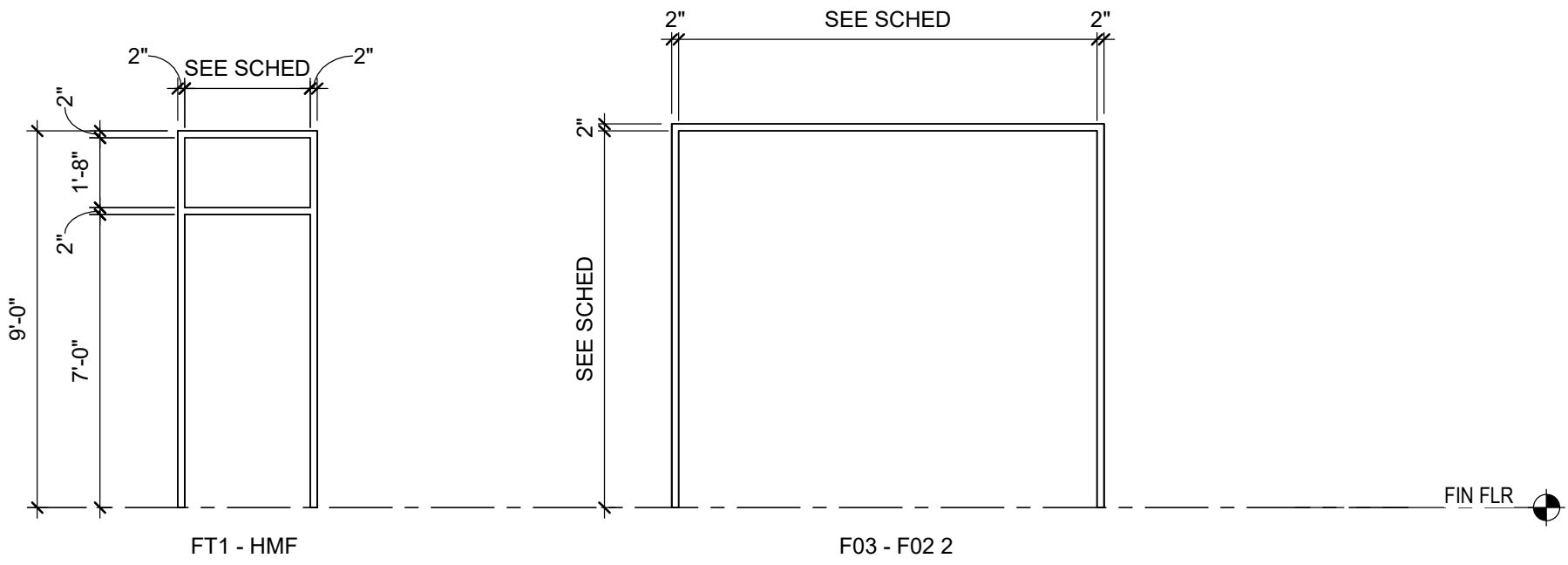
GLASS LEGEND NOTES:
1. SEE SPECS FOR GLASS TYPES NOTED
- MATERIAL
ALUM = ALUMINUM
DHM = DETENTION HOLLOW METAL
HM = HOLLOW METAL
SST = STAINLESS STEEL
WD = WOOD

FINISH
ANOD = ANODIZED
FRP = FIBER REINFORCED PLASTIC
PLAM = PLASTIC LAMINATE
PT = PAINT
ST = STAIN

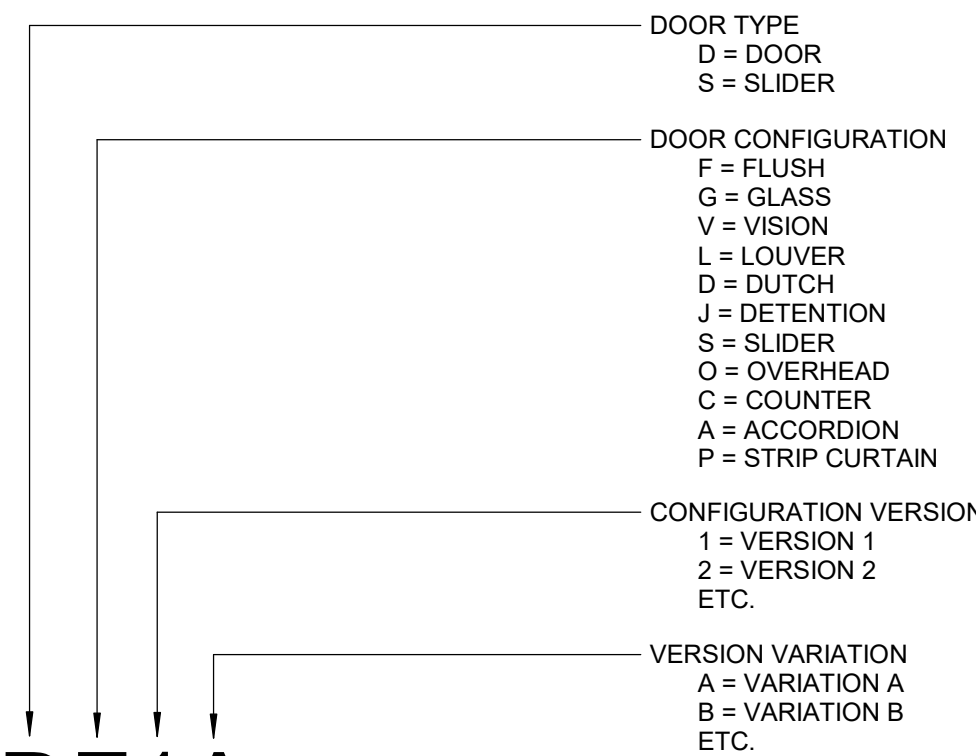
DOOR TYPES



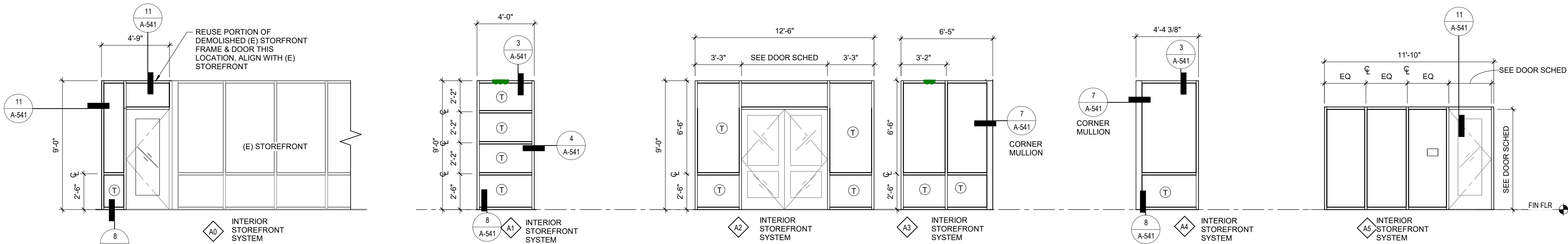
FRAME TYPES



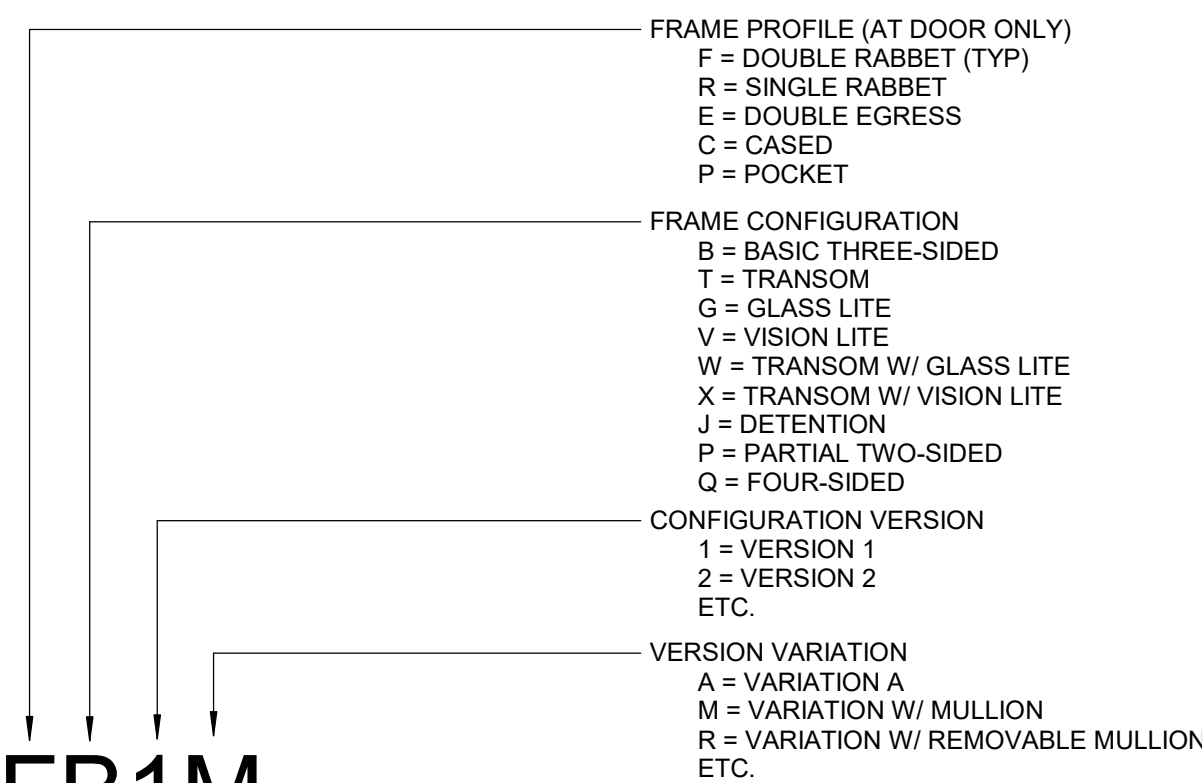
DOOR TYPE SYMBOL KEY



WINDOW TYPES



FRAME TYPE SYMBOL KEY



TITLE

SCHEDULES /
DIAGRAMS - DOORS &
WINDOWS

SHEET

A-621

INTERIOR FINISH LEGEND			
FINISH CODE	MANUFACTURER	TYPE / STYLE, COLOR, SIZE	NOTES
CARPET			
C1	MOHAWK GROUP	LEARN AND LIVE, SIDE STRIPE GT419, COLOR: 963 HERITAGE; INSTALL: VERTICAL ASHLAR	GENERAL CARPET
CEILING\$			
CL1	ARMSTRONG	FINE FISSURED SECOND LOOK SCORED TEGULAR; SIZE: 24X48; SECOND LOOK II #1761	2X4 CEILING TILES WITH SCORE LINES TO MATCH EXISTING
PAINT			
P1	PPG	SW 7004 SNOWBOUND	WHITE
P2	PPG	TBD	DOORS & FRAMES
P3	SHERWIN WILLIAMS	SW 6909 LEMON TWIST	ACCENT PAINT CONFERENCE ROOM; YELLOW
P4	SHERWIN WILLIAMS	SW 6903 CHEERFUL	ACCENT PAINT OFFICES (3)
P5	SHERWIN WILLIAMS	SW 6678 SUNFLOWER	ACCENT PAINT CAREER CENTER BACK WALL
P6	SHERWIN WILLIAMS	ACCENT PAINT TO MATCH GRAPHIC ON COLUMN	EXISTING COLUMN PAINT
WALL COVERING			
WC1	ACROVYN	ACROVYN BY DESIGN .040" HIGH IMPACT WALL PROTECTION; CUSTOM ART PROVIDED BY ARCHITECT	GRAPHIC ON COLUMN
BASE			
B1	TARKETT	4" COVER RUBBER BASE; COLOR: TA4 GATEWAY WG	
PLASTIC LAMINATE			
PL1	FORMICA	MAGNETIC MARKERBOARD, COLOR: CRYSTAL WHITE M3091	CONFERENCE ROOM

ROOM FINISH SCHEDULE																	
NO	ROOM NAME	FLOOR			BASE	NORTH		EAST		SOUTH		WEST		CEILING		INTERIOR ELEVATION	INTERIOR FINISH REMARKS
		MATL	FIN			MATL	FIN	MATL	FIN	MATL	FIN	MATL	FIN	MATL	FIN		
1601	GALLERY	E	--	--	E	--	E, 5	WC1, P1	E	--	E	--	E	--	A-221		
1602	PATHWAY SUPPORT CENTER	E	C1	B1	E, 5	P1, P6	5	P1	E, 5	P1, P6	5	P1, P6	--	CL1	A-221		
1602A	CONFERENCE ROOM	E	C1	B1	E	P3	5	P1, PL1	5	P1	E	P1	--	CL1	A-221		
1602B	OFFICE	E	C1	B1	E	P1	E	P4	E	P1	E	P1	--	CL1			
1604	CAREER CENTER	E	C1	B1	E	P1	E	P5	E	P1	E	P1	--	E, CL1	A-221		
1604B	OFFICE	E	C1	B1	E	P1	5	P4	5	P1	E	P1	--	CL1			
1604C	OFFICE	E	C1	B1	E	P1	E	P4	E	P1	E	P1	--	CL1			
1605	CORRIDOR	--	--	--	--	--	--	--	--	--	--	--	--	--		1	
1606	BDF	--	--	--	--	--	--	--	--	--	--	--	--	--		1	

- GENERAL NOTES
1. IF AT ANY TIME THE GENERAL CONTRACTOR REQUIRES CLARIFICATION OF FINISH LOCATIONS, CONTACT PROJECT ARCHITECT PRIOR TO FINISH APPLICATION.

2. ALL INTERIOR FINISHES SHALL COMPLY WITH CBC SECTION 803 (INTERIOR FINISHES)

3. CEILING FINISHES SHALL BE IN COMPLIANCE WITH TABLE 803.13

4. WALL AND CEILING MATERIALS SHALL NOT EXCEED THE ALLOWABLE FLAME SPREAD CLASSIFICATION IN APPLICABLE CODE, CLASS A

5. ALL CEILING AND HEADERS TO BE PAINTED P1, UNO.

6. PATCH AND REPAIR ALL AREAS AFFECTED BY DEMOLITION. FINISH TO MATCH ADJACENT SURFACES UNO.

7. ALL WALL FINISH TEXTURE SHALL MATCH EXISTING CAMPUS STANDARDS.

8. WALLS TO RECEIVE DIGITAL WALLCOVERING ARE TO REMAIN FREE OF DEVICES AND EQUIPMENT, UNO.

9. SEE REFLECTED CEILING PLAN FOR CLARIFICATION ON CEILING TYPES AND FINISH.

10. SEE INTERIOR ELEVATIONS FOR FINISH CLARIFICATION AND LOCATION.

11. PAINT ALL EXPOSED DUCTS, PIPING, CONDUIT, STEEL, FRAMING, METAL DECK, ETC. P1, UNO.

INTERIOR FINISH REMARKS

1. NO NEW FINISHES IN THIS AREA/ROOM

MATERIAL CODES

- 1

CONCRETE
- 2

PLYWOOD (DECKING)
- 3

CONCRETE MASONRY UNIT
- 4

BRICK
- 5

GYPSUM WALLBOARD
- 6

GYPSUM WALLBOARD, WATER RESISTANT
- 7

EXPOSED STRUCTURE
- 8

CEMENTITIOUS WALLBOARD
- E

EXISTING
- OTS

OPEN TO STRUCTURE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122895 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 06/16/2026

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www.lionakis.com

CONSULTANT

SEAL

REGISTERED ARCHITECT
MICHAEL J. WOLFGANG
C33294
EXPIRES 06-30-21
STATE OF CALIFORNIA

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LIVERMORE, CA 94551

CLIENT

CHABOT-LAS POSITAS COMMUNITY COLLEGE
DISTRICT
3000 CAMPUS HILL DRIVE LIVERMORE, CA 94551

ISSUED

MARK	DATE	DESCRIPTION
	02/19/2026	DSA SUBMITTAL
	06/02/2026	DSA BACKCHECK

MANAGEMENT

LIONAKIS PROJECT NO: 024003
CLIENT PROJECT NO: -
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TITLE

INTERIOR FINISH
LEGEND AND
SCHEDULE

SHEET

A-641

4/25/2023 3:05:05 PM Autodesk Docs (7/25/2020) Las Positas College Bldg 1600/205-2020_Las Positas College Bldg 1600_MEP-FV-FP_24.rvt

IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT - SCALE ACCORDINGLY

0 1/4" 1/2" 1"

FIRE PROTECTION NOTES

- ALL WORKS AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH THE FOLLOWING CODES AS AMENDED AND ADOPTED BY THE INSPECTION AUTHORITY. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR OTHERS APPLICABLE TO THIS PROJECT.
 - CALIFORNIA FIRE CODE, 2025
 - NFPA-13, 2025
 - CALIFORNIA BUILDING CODE - 2025
 - CALIFORNIA MECHANICAL CODE - 2025
 - CALIFORNIA PLUMBING CODE - 2025
 - CALIFORNIA ELECTRICAL CODE - 2025
 - STATE OF CALIFORNIA ENERGY CONSERVATION REGULATIONS, TITLE 24 - 2025
 - NATIONAL FIRE PROTECTION ASSOCIATION
- COORDINATE THE FOLLOWING WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWING ELEMENTS INSTALLED INCLUDING EXISTING BUILDING SYSTEMS:
 - EXACT LOCATION OF ALL EQUIPMENT.
 - ALL PENETRATIONS THRU ROOF, WALLS AND FLOORS.
 - EXACT SIZE AND ROUTING OF PIPING.
- DRAWINGS ARE DIAGRAMMATIC ONLY. PIPE, VALVES, AND EQUIPMENT SHALL FOLLOW THE ARRANGEMENT SHOWN WHILE STILL COORDINATING ROUTING AROUND OBSTRUCTIONS TO THE SPRINKLER LAYOUT.
- INSTALLATION OF THE SPRINKLER SYSTEM SHALL NOT BE STARTED UNTIL COMPLETE PLANS AND SPECIFICATION, INCLUDING WATER SUPPLY INFORMATION, HAVE BEEN REVIEWED BY LP CONSULTING ENGINEERS. AT VARIOUS STAGES AND UPON COMPLETION, THE SYSTEM MUST BE TESTED IN THE PRESENCE OF THE AUTHORITY HAVING JURISDICTION (AHJ).
- THE LOCATION OF THE FIRE SPRINKLER HEADS SHALL BE COORDINATED WITH THE NEW CEILING LAYOUTS AND ALL OTHER TRADES FOR COMPLETE FIRE PROTECTION COVERAGE OF ALL AREAS. PROVIDE DETAILED PLANS FOR APPROVAL PRIOR TO INSTALLATION.
- HEADS SHALL BE SYMMETRICALLY LOCATED IN CENTER OF CEILING PANELS. COORDINATE LAYOUT WITH CEILING OR SOFFIT LIGHT FIXTURES, HVAC DIFFUSERS AND RETURN GRILLS, SPEAKERS, FIRE ALARM DEVICES, ETC. PROVIDE PENDENT AND/OR CONCEALED TYPE SPRINKLER HEADS WHERE REQUIRED.
- WORKMANSHIP:**
ALL WORK SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER ACCORDING TO THE BEST TRADE PRACTICE BY THOSE SKILLED IN THEIR PARTICULAR TRADE. PIPES, HANGERS, AND DEVICES TO BE INSTALLED LEVEL, SQUARE OR CENTERED TO GIVE A NEAT AND PLEASING APPEARANCE. ALL EQUIPMENT IS TO BE INSTALLED STRICTLY PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE ALL WORK WITH OTHER TRADES AND ARCHITECT.
- WARRANTY:**
ALL MATERIALS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE GUARANTEED FREE FROM ALL FIRE PROTECTION, ELECTRICAL, AND WORKMANSHIP DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO THE PREMISES CAUSED BY LEAKS AND/OR BREAKS IN PIPES AND FIXTURES INSTALLED UNDER THIS CONTRACT.

- IT IS THE INTENTION OF THE PLANS AND SPECIFICATIONS TO COVER ALL THINGS REQUIRED TO PROVIDE COMPLETE AND FUNCTIONING SYSTEMS. THE CONTRACTOR IS TO FURNISH ALL LABOR, MATERIALS, TRANSPORTATION, EQUIPMENT, MISCELLANEOUS SERVICES, ETC., REQUIRED TO ACCOMPLISH THIS RESULT. ANYTHING WHICH MAY BE REASONABLY CONSTRUED AS A NECESSARY PART OF THE INSTALLATION WHETHER SPECIFICALLY SHOWN OR MENTIONED, SHALL BE INCLUDED. THE ENGINEER WILL GIVE ANY INTERPRETATIONS NECESSARY FOR THE CONTRACTOR TO PROPERLY ESTIMATE AND INSTALL THE WORK.
- THE CONTRACTOR SHALL SURVEY EXISTING FIELD CONDITIONS PRIOR TO BIDDING.
- ALL EXISTING FIRE PROTECTION SYSTEMS SHALL REMAIN IN OPERATION DURING ALL PHASES OF CONSTRUCTION. NO SYSTEMS ARE TO BE SHUTDOWN WITHOUT AUTHORIZATION FROM THE OWNER AND LOCAL FIRE DISTRICT.
- C-16 CONTRACTOR SHALL GENERATE SHOP DRAWINGS CONSISTENT WITH THE DESIGN INTENT SHOWN ON THE CONTRACT DOCUMENTS. CONTRACTOR SHALL CAPTURE ANY NECESSARY MODIFICATIONS TO THE LAYOUT THROUGH THE COORDINATION WITH ALL OTHER TRADES, PRIOR TO SUBMITTING TO ENGINEER FOR REVIEW OR SENDING OUT FOR FABRICATION. CHANGES THAT DO NOT AFFECT THE SPRINKLER DESIGN INTENT OR HYDRAULIC CALCULATIONS ARE NOT INTENDED TO PREVENT THE CONTRACTOR FROM MAKING ANY NECESSARY MODIFICATIONS DURING COORDINATION INCLUDING BUT NOT LIMITED TO CHANGING OR ADDING PROTECTION BECAUSE OF OBSTRUCTIONS TO SPRINKLER DISCHARGE, CENTERING OF SPRINKLER HEADS, RELOCATING DUE TO CONSTRUCTIBILITY AND COORDINATION, OR ADDING ADDITIONAL SPRINKLER HEADS FOR FULL PROTECTION OF A SPACE OR A COMPARTMENT. SPRINKLER LAYOUT CHANGES REQUIRED AFTER THE C-16 CONTRACTOR HAS SUBMITTED SHOP DRAWINGS FOR REVIEW SHALL NOT WARRANT A CHANGE ORDER IF PLANS SUBMITTED WERE RECEIVED WITH DEFICIENCIES OR CODE VIOLATIONS.
 - CONTRACTOR SHOP DRAWINGS: USED FOR COORDINATION AND AS INSTALLATION DRAWINGS TO INDICATE PIPE LENGTHS, ELEVATIONS, FLOOR AND WALL PENETRATIONS.
 - ENGINEER'S REVIEW OF SUBMITTALS NOT RELIEVE CONTRACTOR FROM COORDINATING INSTALLATION OF WORK WITH OTHER TRADES, OR FROM COMPLIANCE WITH ANY CODES OR STANDARDS.
 - COPIES OF CONTRACT DRAWINGS CANNOT BE USED AS THE CONTRACTOR'S INSTALLATION DRAWINGS FOR REVIEW. CONTRACT DRAWINGS ARE USED FOR SUBMITTAL AND APPROVAL TO THE REVIEWING AGENCY ONLY AND DO NOT SHOW THE CONTRACTOR'S CONTINUED COORDINATION WITH OTHER TRADES, FABRICATED LENGTHS, OR APPROPRIATE TAKE OFFS FOR FITTINGS.
- NFPA 13 (2025) SEC. 29.2.1 ALL INTERIOR PIPING AND APPURTENANCES SUBJECTED TO SYSTEM WORKING PRESSURE SHALL BE HYDROSTATICALLY TESTED AT 200 PSI AND SHALL MAINTAIN THAT PRESSURE WITHOUT LOSS FOR 2 HOURS. (WITNESSED BY IOR)
- NFPA 13 (2025) SEC. 29.1 THE FIRE SPRINKLER CONTRACTOR (C-16) SHALL COMPLETE AND SIGN THE CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR THE OVERHEAD FIRE SPRINKLER SYSTEM USING THE FORM IN NFPA 13 (2025) FIGURE A29.1. THIS FORM SHALL BE GIVEN TO THE PROJECT INSPECTOR WHO WILL TURN IT IN FOR RECORDS.

GENERAL NOTES

- THE SYSTEM DESIGN AND INSTALLATION SHALL COMPLY WITH NFPA 13, 2025 EDITION
- EXISTING SYSTEM DESIGN IS FOR: LIGHT HAZARD
- ALL THREADED PIPE 2" AND SMALLER SHALL BE SCHEDULE 40, BLACK STEEL ANSI/ASTM A53.
- ALL GROOVED AND WELDED PIPE 2 1/2" - 6" SHALL BE SCHEDULE 10, BLACK STEEL ANSI/ASTM A795.
- THREADED FITTINGS SHALL BE CLASS 125 THREADED DUCTILE IRON ANSI B16.3.
- ALL THREADED PIPE AND FITTINGS SHALL HAVE THREADS CUT TO ANSI/ASME STANDARD B1.20.1.
- ALL PIPE WELDING SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS AWS D10.9 (STANDARD FOR BUILDING SERVICE PIPING)
- ALL PIPE SHALL BE EARTHQUAKE BRACED AS OUTLINED IN NFPA 13, 2025 EDITION, SECTION 18.1.
- ALL HANGER COMPONENTS AND INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 13, 2025 EDITION, SECTION 17.2 AND 17.4.
- ALL NEW PIPING IS TO BE HYDROSTATICALLY TESTED TO CODE FOR A PERIOD NOT LESS THAN TWO HOURS.
- 2X4 REGULAR TILE, PENDENT SPRINKLERS ARE TO BE CENTERED IN 2'X2' SPACE. (TYPICAL)

FIRE SPRINKLER LEGEND

1 FP1	DETAIL DESIGNATION DETAIL NUMBER SHEET NO. WHERE SHOWN
##	HYDRAULIC CALCULATION REFERENCE NODE
SB2	LATERAL SEISMIC BRACE
SB1	LONGITUDINAL SEISMIC BRACE
+	FOUR WAY BRACE
+	FIRE SPRINKLER RISER
□	GROOVED COUPLING
/	PIPE HANGER DESIGNATION
☒	HORN STROBE CONNECTED TO FLOW SWITCH
U	CHANGE IN ELEVATION
□	CAP
+	PLUG
+	VALVE
+	BRANCH LINE RESTRAINT
—	NEW FIRE SPRINKLER PIPE
—	EXISTING FIRE SPRINKLER PIPE
—	DEMOLISHED FIRE SPRINKLER PIPE

SCOPE OF WORK

PROJECT DESCRIPTION: REMOVE AND REPLACE EXISTING SPRINKLER HEADS FOR NEW CEILING COVERAGE OF THE SPACE ON THE FIRST FLOOR OF BLDG 1600.

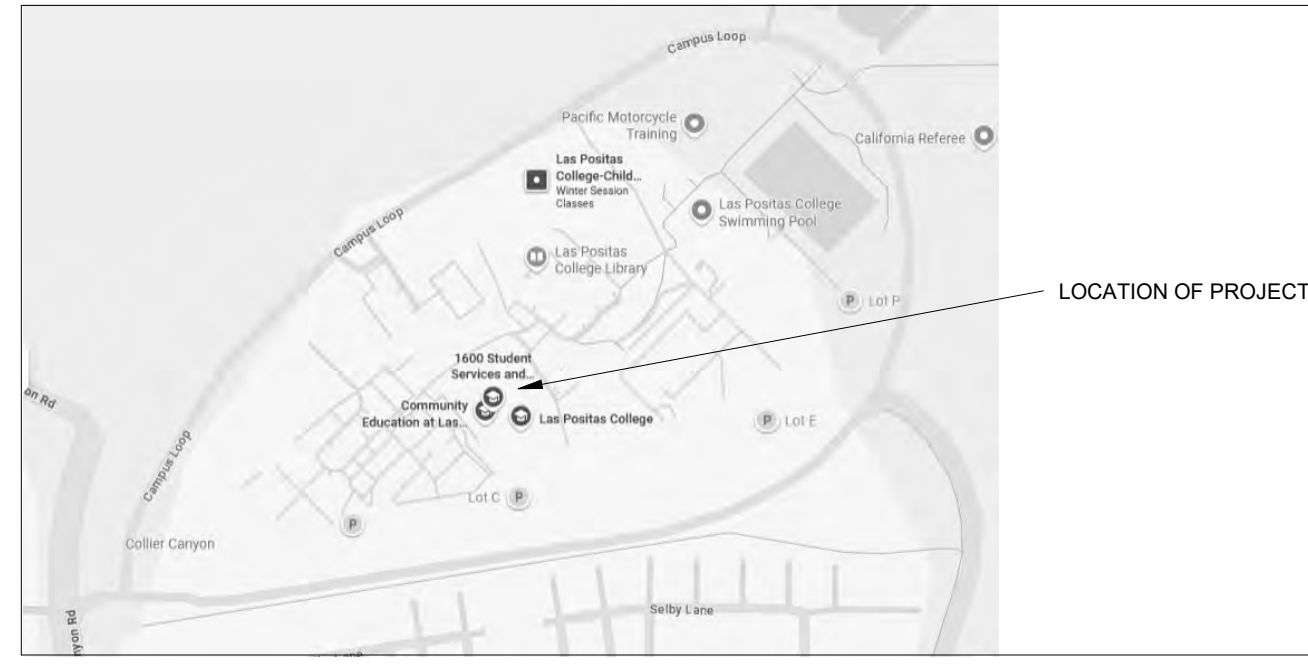
OWNER: CHABOT-LAS POSITAS COMMUNITY COLLEGE DISTRICT

CODE ANALYSIS: (E) DSA APP: #01-111019

TOTAL BUILDING AREA: N/A **BUILDING HEIGHT:** 2 STORY

CONSTRUCTION TYPE: II-B **OCCUPANCY TYPE:** (B)

VICINITY MAP

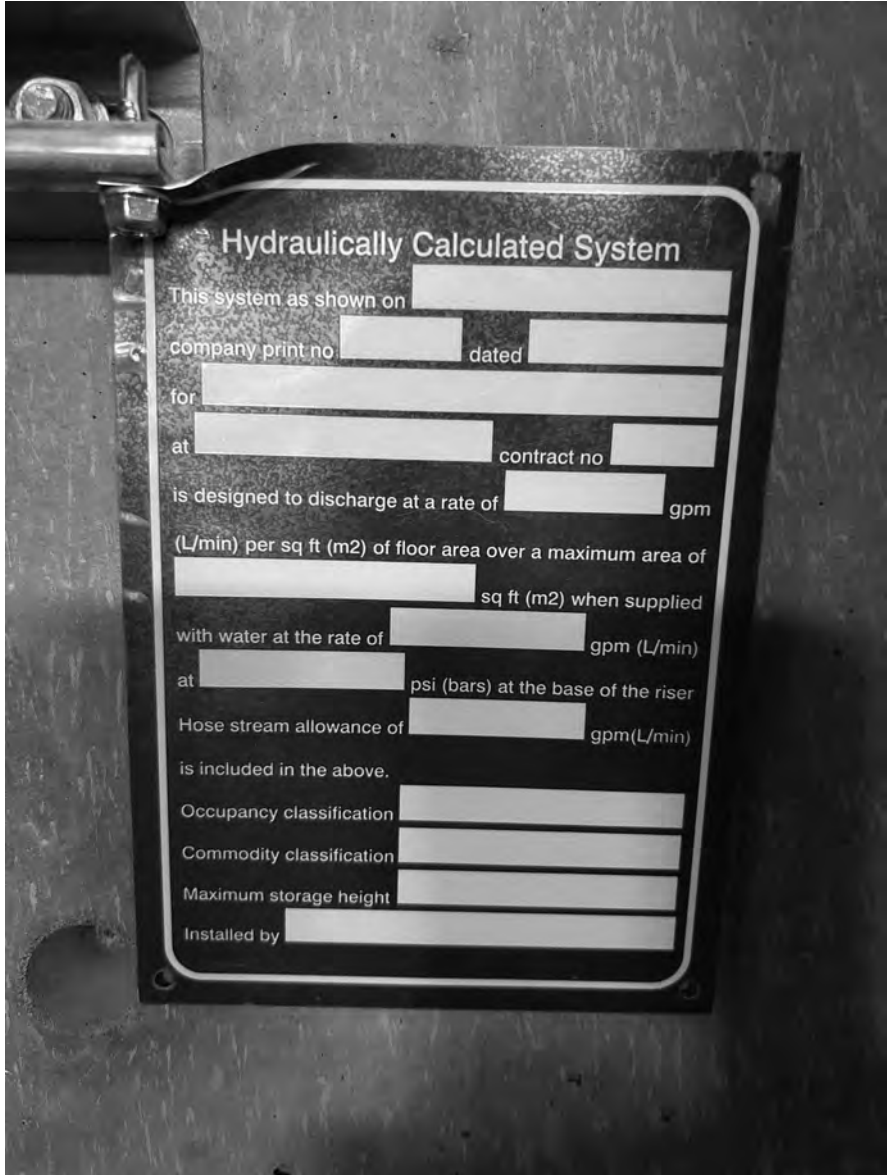


FIRE SPRINKLER SHEET INDEX

SHEET NUMBER	SHEET NAME
FP0.01	FIRE SPRINKLER LEGEND AND NOTES
FP-111	FIRE SPRINKLER REFLECTED CEILING AND DEMOLITION PLAN

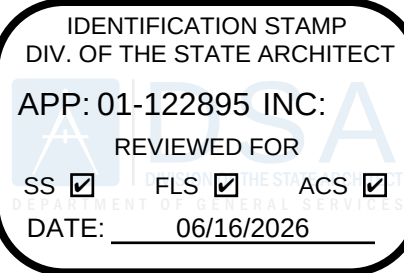
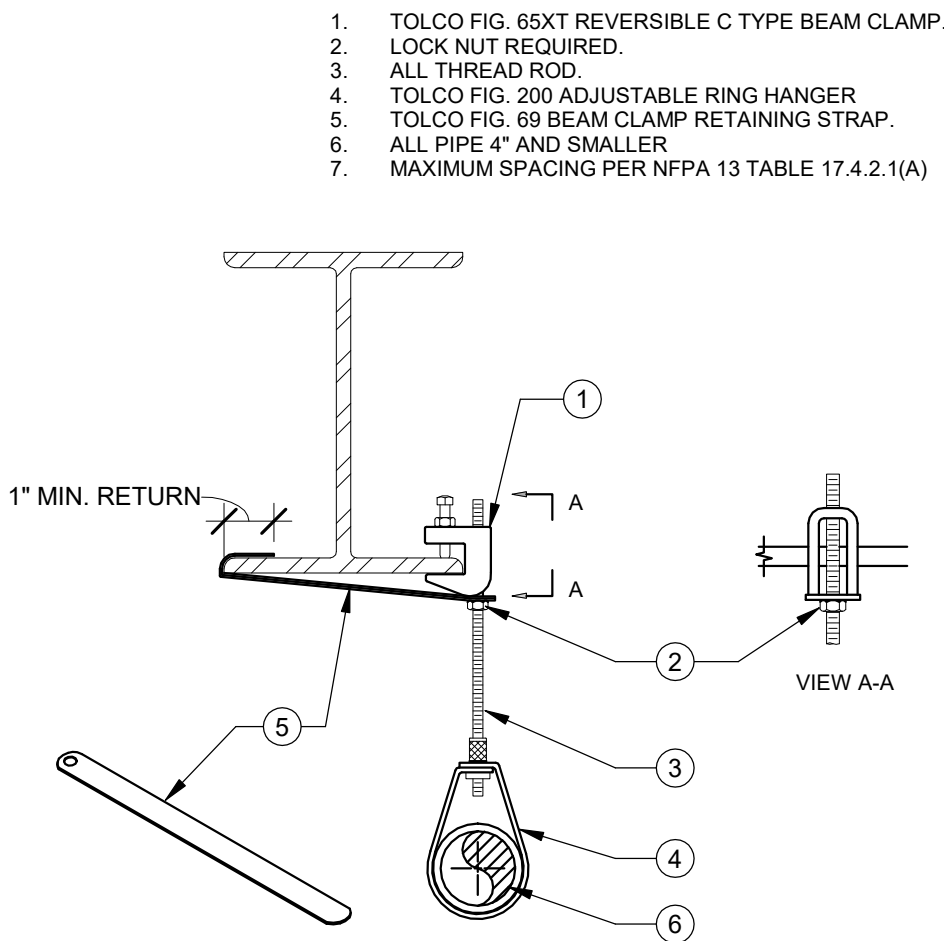
EXISTING HYDRAULIC PLACARD

NTS 2



BEAM CLAMP HANGER

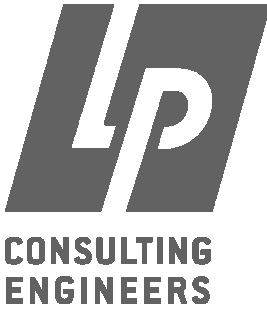
NTS 1



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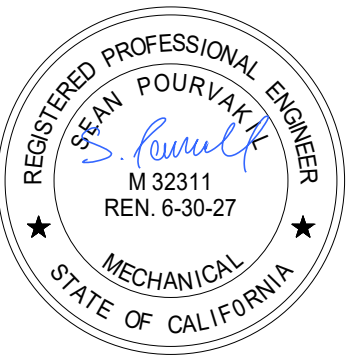


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**PATHWAYS SUPPORT CENTER
RENOVATION**

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LIVERMORE, CA 94551

CLIENT
CHABOT-LAS POSITAS COMMUNITY COLLEGE
DISTRICT
3000 CAMPUS HILL DRIVE LIVERMORE, CA 94551

ISSUED

MARK	DATE	DESCRIPTION
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MANAGEMENT

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CLIENT PROJECT NO: -
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TITLE

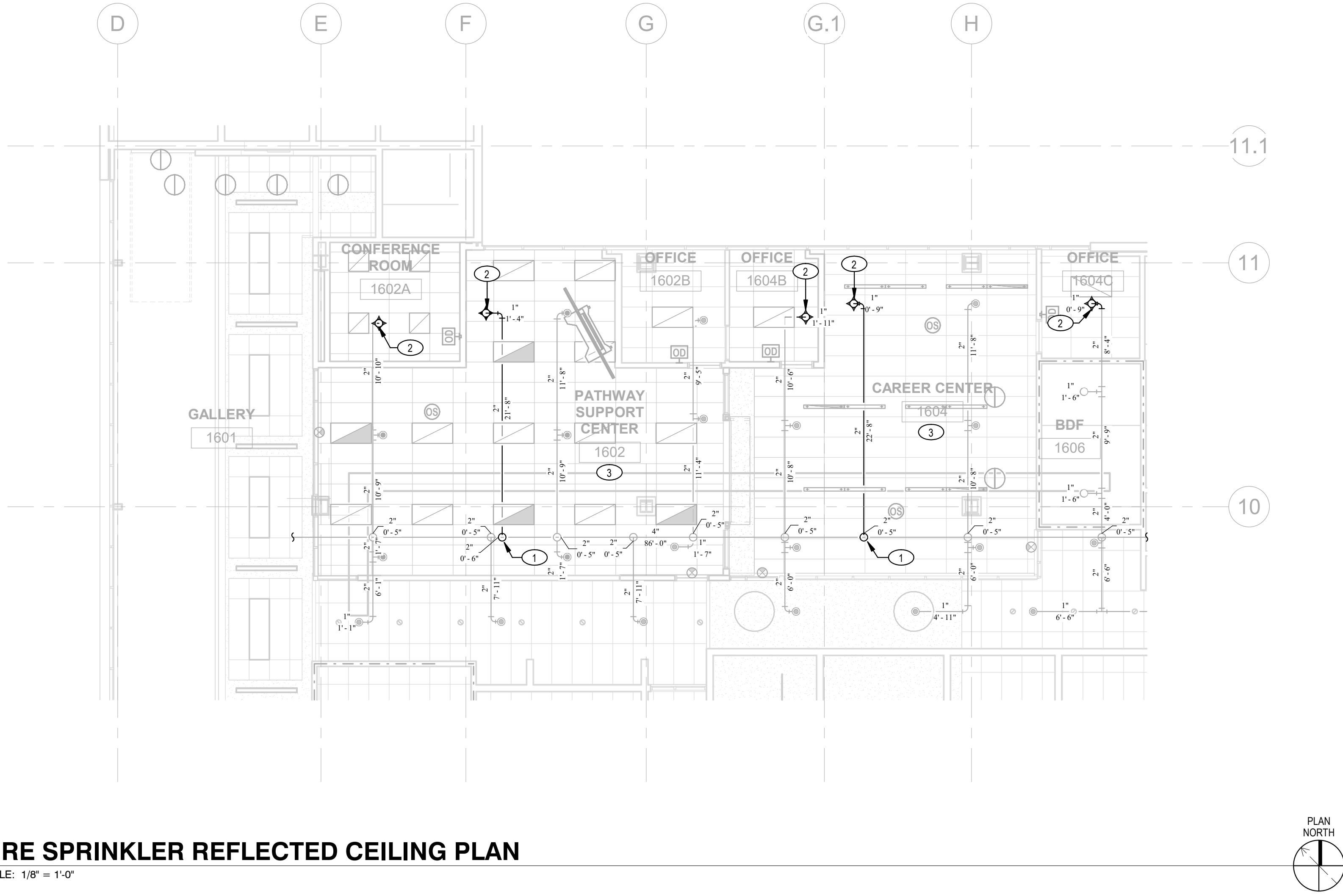
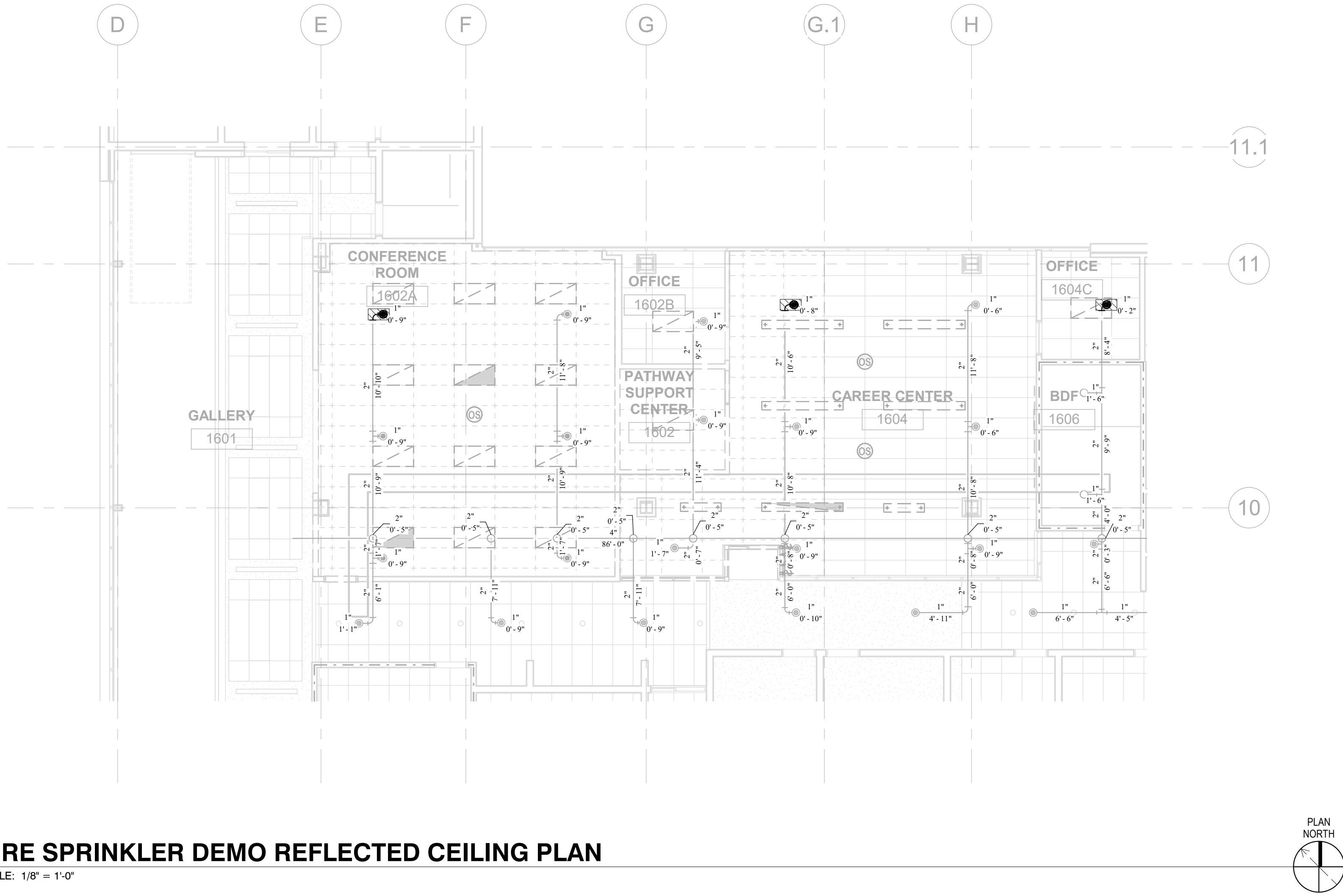
**FIRE SPRINKLER
LEGEND AND NOTES**

SHEET

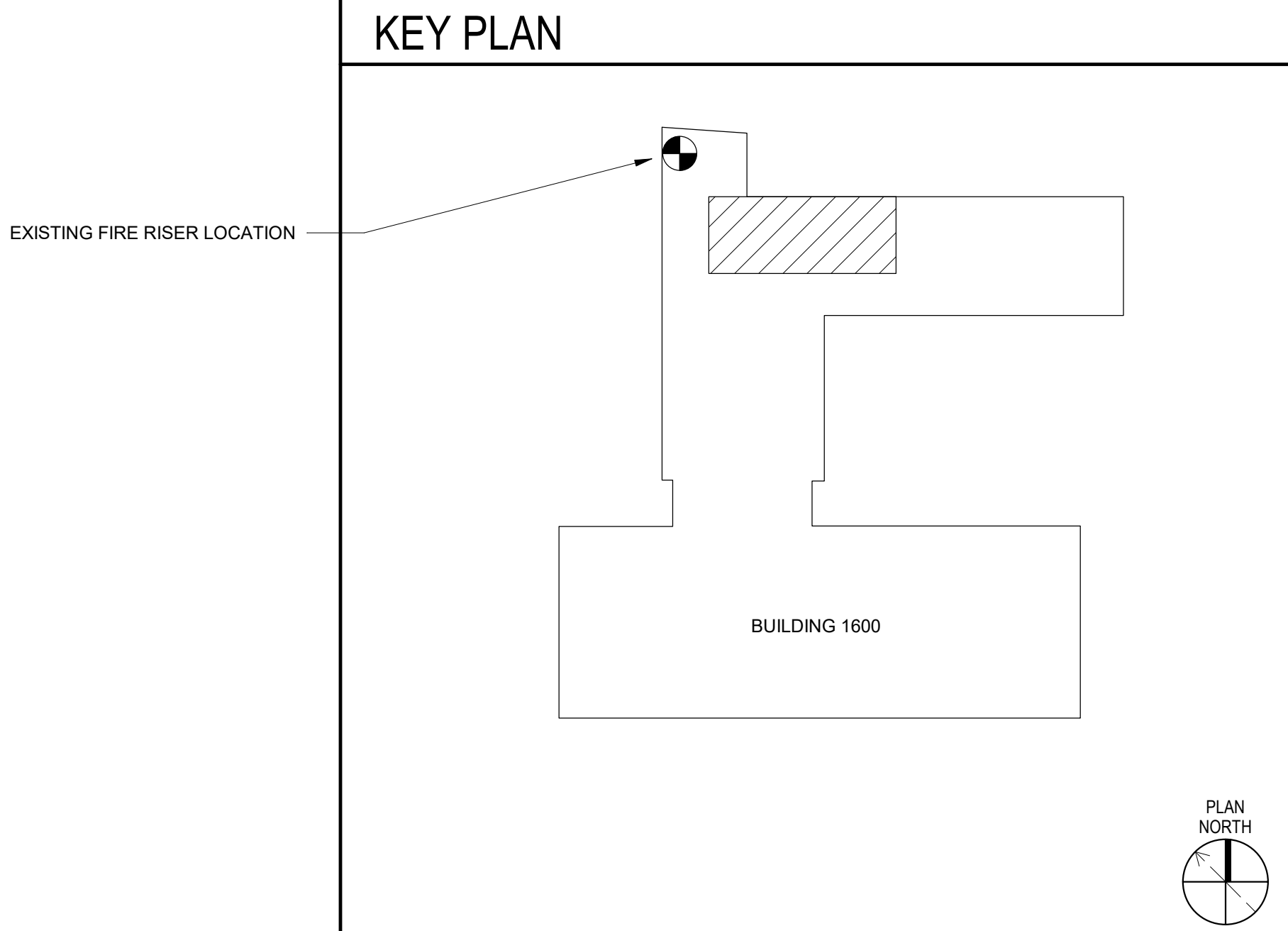
FP0.01

0 1/4" 1/2" 1" IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

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FIRE SPRINKLER HEAD SCHEDULE						
SYMBOL	TYPE	TEMP	ORF	K	FINISH	QUANTITY
○	EXISTING QR UPR	155	1/2"	5.6	BRASS	EXISTING
●	TY5237 QR EC-PND SPRINKLER	155	3/4"	11.2	CHROME	EXISTING
◆	TY5237 QR EC-PND SPRINKLER	155	3/4"	11.2	CHROME	5



- # KEY NOTES
- 1 MAKE A NEW CONNECTION TO THE EXISTING SPRINKLER MAIN, TO SUPPLY THE SPRINKLER HEAD IN SPACE.
 - 2 PROVIDE A NEW SPRINKLER HEAD THAT MATCHES THE EXISTING SPRINKLER HEAD TYPE. MATCH RESPONSE TYPE, K FACTOR, AND COVERAGE TYPE.
 - 3 EXISTING SPRINKLER HEADS TO REMAIN WHERE CEILING GRID IS TO REMAIN THE SAME AND ONLY CEILING TILES ARE TO BE REPLACED.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122895 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 06/16/2026

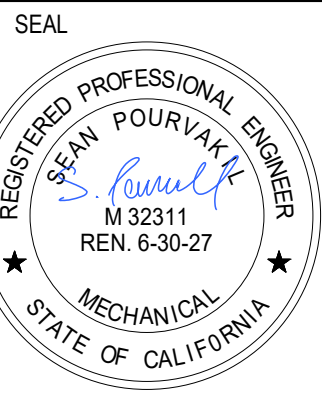
LIONAKIS

1111 Broadway, Suite 200
Oakland, CA 94607
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CONSULTANT
MEP & FS / Sustainability / CxA

1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778

www.lpengiineers.com
Job #: 25-2030



PROJECT
PATHWAYS SUPPORT CENTER
RENOVATION

3000 CAMPUS HILL DR
LIVERMORE, CA 94551

CLIENT
CHABOT-LAS POSITAS COMMUNITY COLLEGE
DISTRICT
3000 CAMPUS HILL DRIVE LIVERMORE, CA 94551

ISSUED		
MARK	DATE	DESCRIPTION
	02/19/2026	DSA SUBMITTAL
	06/02/2026	DSA BACKCHECK

MANAGEMENT
LIONAKIS PROJECT NO: 024003
CLIENT PROJECT NO:
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TITLE
FIRE SPRINKLER
REFLECTED CEILING
AND DEMOLITION PLAN

SHEET
FP-111

0 1/4" 1/2" 1" 2" 3" 4" 5" 6" 7" 8" 9" 10" 11" 12" 13" 14" 15" 16" 17" 18" 19" 20" 21" 22" 23" 24" 25" 26" 27" 28" 29" 30" 31" 32" 33" 34" 35" 36" 37" 38" 39" 40" 41" 42" 43" 44" 45" 46" 47" 48" 49" 50" 51" 52" 53" 54" 55" 56" 57" 58" 59" 60" 61" 62" 63" 64" 65" 66" 67" 68" 69" 70" 71" 72" 73" 74" 75" 76" 77" 78" 79" 80" 81" 82" 83" 84" 85" 86" 87" 88" 89" 90" 91" 92" 93" 94" 95" 96" 97" 98" 99" 100" 101" 102" 103" 104" 105" 106" 107" 108" 109" 110" 111" 112" 113" 114" 115" 116" 117" 118" 119" 120" 121" 122" 123" 124" 125" 126" 127" 128" 129" 130" 131" 132" 133" 134" 135" 136" 137" 138" 139" 140" 141" 142" 143" 144" 145" 146" 147" 148" 149" 150" 151" 152" 153" 154" 155" 156" 157" 158" 159" 160" 161" 162" 163" 164" 165" 166" 167" 168" 169" 170" 171" 172" 173" 174" 175" 176" 177" 178" 179" 180" 181" 182" 183" 184" 185" 186" 187" 188" 189" 190" 191" 192" 193" 194" 195" 196" 197" 198" 199" 200" 201" 202" 203" 204" 205" 206" 207" 208" 209" 210" 211" 212" 213" 214" 215" 216" 217" 218" 219" 220" 221" 222" 223" 224" 225" 226" 227" 228" 229" 230" 231" 232" 233" 234" 235" 236" 237" 238" 239" 240" 241" 242" 243" 244" 245" 246" 247" 248" 249" 250" 251" 252" 253" 254" 255" 256" 257" 258" 259" 260" 261" 262" 263" 264" 265" 266" 267" 268" 269" 270" 271" 272" 273" 274" 275" 276" 277" 278" 279" 280" 281" 282" 283" 284" 285" 286" 287" 288" 289" 290" 291" 292" 293" 294" 295" 296" 297" 298" 299" 300" 301" 302" 303" 304" 305" 306" 307" 308" 309" 310" 311" 312" 313" 314" 315" 316" 317" 318" 319" 320" 321" 322" 323" 324" 325" 326" 327" 328" 329" 330" 331" 332" 333" 334" 335" 336" 337" 338" 339" 340" 341" 342" 343" 344" 345" 346" 347" 348" 349" 350" 351" 352" 353" 354" 355" 356" 357" 358" 359" 360" 361" 362" 363" 364" 365" 366" 367" 368" 369" 370" 371" 372" 373" 374" 375" 376" 377" 378" 379" 380" 381" 382" 383" 384" 385" 386" 387" 388" 389" 390" 391" 392" 393" 394" 395" 396" 397" 398" 399" 400" 401" 402" 403" 404" 405" 406" 407" 408" 409" 410" 411" 412" 413" 414" 415" 416" 417" 418" 419" 420" 421" 422" 423" 424" 425" 426" 427" 428" 429" 430" 431" 432" 433" 434" 435" 436" 437" 438" 439" 440" 441" 442" 443" 444" 445" 446" 447" 448" 449" 450" 451" 452" 453" 454" 455" 456" 457" 458" 459" 460" 461" 462" 463" 464" 465" 466" 467" 468" 469" 470" 471" 472" 473" 474" 475" 476" 477" 478" 479" 480" 481" 482" 483" 484" 485" 486" 487" 488" 489" 490" 491" 492" 493" 494" 495" 496" 497" 498" 499" 500" 501" 502" 503" 504" 505" 506" 507" 508" 509" 510" 511" 512" 513" 514" 515" 516" 517" 518" 519" 520" 521" 522" 523" 524" 525" 526" 527" 528" 529" 530" 531" 532" 533" 534" 535" 536" 537" 538" 539" 540" 541" 542" 543" 544" 545" 546" 547" 548" 549" 550" 551" 552" 553" 554" 555" 556" 557" 558" 559" 560" 561" 562" 563" 564" 565" 566" 567" 568" 569" 570" 571" 572" 573" 574" 575" 576" 577" 578" 579" 580" 581" 582" 583" 584" 585" 586" 587" 588" 589" 590" 591" 592" 593" 594" 595" 596" 597" 598" 599" 600" 601" 602" 603" 604" 605" 606" 607" 608" 609" 610" 611" 612" 613" 614" 615" 616" 617" 618" 619" 620" 621" 622" 623" 624" 625" 626" 627" 628" 629" 630" 631" 632" 633" 634" 635" 636" 637" 638" 639" 640" 641" 642" 643" 644" 645" 646" 647" 648" 649" 650" 651" 652" 653" 654" 655" 656" 657" 658" 659" 660" 661" 662" 663" 664" 665" 666" 667" 668" 669" 670" 671" 672" 673" 674" 675" 676" 677" 678" 679" 680" 681" 682" 683" 684" 685" 686" 687" 688" 689" 690" 691" 692" 693" 694" 695" 696" 697" 698" 699" 700" 701" 702" 703" 704" 705" 706" 707" 708" 709" 710" 711" 712" 713" 714" 715" 716" 717" 718" 719" 720" 721" 722" 723" 724" 725" 726" 727" 728" 729" 730" 731" 732" 733" 734" 735" 736" 737" 738" 739" 740" 741" 742" 743" 744" 745" 746" 747" 748" 749" 750" 751" 752" 753" 754" 755" 756" 757" 758" 759" 760" 761" 762" 763" 764" 765" 766" 767" 768" 769" 770" 771" 772" 773" 774" 775" 776" 777" 778" 779" 780" 781" 782" 783" 784" 785" 786" 787" 788" 789" 790" 791" 792" 793" 794" 795" 796" 797" 798" 799" 800" 801" 802" 803" 804" 805" 806" 807" 808" 809" 810" 811" 812" 813" 814" 815" 816" 817" 818" 819" 820" 821" 822" 823" 824" 825" 826" 827" 828" 829" 830" 831" 832" 833" 834" 835" 836" 837" 838" 839" 840" 841" 842" 843" 844" 845" 846" 847" 848" 849" 850" 851" 852" 853" 854" 855" 856" 857" 858" 859" 860" 861" 862" 863" 864" 865" 866" 867" 868" 869" 870" 871" 872" 873" 874" 875" 876" 877" 878" 879" 880" 881" 882" 883" 884" 885" 886" 887" 888" 889" 890" 891" 892" 893" 894" 895" 896" 897" 898" 899" 900" 901" 902" 903" 904" 905" 906" 907" 908" 909" 910" 911" 912" 913" 914" 915" 916" 917" 918" 919" 920" 921" 922" 923" 924" 925" 926" 927" 928" 929" 930" 931" 932" 933" 934" 935" 936" 937" 938" 939" 940" 941" 942" 943" 944" 945" 946" 947" 948" 949" 950" 951" 952" 953" 954" 955" 956" 957" 958" 959" 960" 961" 962" 963" 964" 965" 966" 967" 968" 969" 970" 971" 972" 973" 974" 975" 976" 977" 978" 979" 980" 981" 982" 983" 984" 985" 986" 987" 988" 989" 990" 991" 992" 993" 994" 995" 996" 997" 998" 999" 1000

IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT - SCALE ACCORDINGLY

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PIPE HANGER SCHEDULE			
MATERIALS	TYPES OF JOINTS	HORIZONTAL	VERTICAL
CAST-IRON HUBLESS	CAST-IRON HUBLESS	EVERY OTHER JOINT, UNLESS OVER 4 FEET THEN SUPPORT EACH JOINT	BASE AND EACH FLOOR, NOT TO EXCEED 15 FEET
COPPER TUBE AND PIPE	SOLDERED OR BRAZED	1-1/2 INCHES AND SMALLER, 6 FEET; 2 INCHES AND LARGER, 10 FEET	EACH FLOOR, NOT TO EXCEED 10 FEET
STEEL PIPE FOR GAS	THREADED OR WELDED	1/2 INCH, 6 FEET; 3/4 INCH AND 1 INCH, 8 FEET; 1-1/4 INCHES AND LARGER, 10 FEET	1/2 INCH, 6 FEET; 3/4 INCH AND 1 INCH, 8 FEET; 1-1/4 INCHES AND LARGER, EVERY FLOOR
SCHEDULE 40 PVC AND ABS DWV	SOLVENT CEMENTED	ALL SIZES, 4 FEET; ALLOW FOR EXPANSION EVERY 30 FEET	BASE AND EACH FLOOR; PROVIDE MID-STORY GUIDES; PROVIDE FOR EXPANSION EVERY 30 FEET
CPVC	SOLVENT CEMENTED	1 INCH AND SMALLER, 3 FEET; 1-1/4 INCHES AND LARGER, 4 FEET	BASE AND EACH FLOOR; PROVIDE MID-STORY GUIDES
PEX	COLD EXPANSION, INSERT AND COMPRESSION	1 INCH AND SMALLER, 32 INCHES; 1-1/4 INCHES AND LARGER, 4 FEET	BASE AND EACH FLOOR; PROVIDE MID-STORY GUIDES
POLYPROPYLENE (PP)	FUSION WELD	1 INCH AND SMALLER, 32 INCHES; 1-1/4 INCHES AND LARGER, 4 FEET	BASE AND EACH FLOOR; PROVIDE MID-STORY GUIDES
NOTES: 1. HANGER SPACING PER CPC TABLE 313.3. 2. SEE PIPE SEISMIC BRACING SCHEDULE FOR BRACING REQUIREMENTS. 3. SUPPORT CAST IRON PIPING ADJACENT TO JOINT, NOT TO EXCEED 18". 4. SUPPORT CAST IRON, PVC, AND ABS PIPING AT EACH HORIZONTAL BRANCH CONNECTION. 5. HANGERS SHALL NOT BE PLACED ON THE COUPLING FOR CAST IRON PIPING.			

PIPE SEISMIC BRACING SCHEDULE					
SYSTEM	IMPORTANCE FACTOR (Ip)	HORIZONTAL ACCEL. (Fp)	VERTICAL ACCEL. (Fpv)	TRANSVERSE SPACING	LONGITUDINAL SPACING
WASTE & VENT	1.0	0.75g MAX.	0.375g MAX.	20 FEET MAX.	40 FEET MAX.
DOMESTIC COLD WATER & HOT WATER	1.0	0.75g MAX.	0.375g MAX.	20 FEET MAX.	40 FEET MAX.
CONDENSATE	1.0	0.75g MAX.	0.375g MAX.	20 FEET MAX.	40 FEET MAX.
NATURAL GAS/PROPANE	1.5	0.75g MAX.	0.375g MAX.	20 FEET MAX.	40 FEET MAX.
NOTES: 1. SEISMIC BRACING REQUIREMENTS BASED ON ASCE 7-22 WITH SPACING LISTED ABOVE. 2. PROVIDE TRANSVERSE AND LONGITUDINAL BRACING WITHIN 2 FEET OF ELBOWS, EXCEPT WHERE BRACING MAY BE OMITTED BELOW. 3. SEISMIC BRACING MAY BE OMITTED PER CBC 1617A.1.26 AND ASCE 7, SECTION 13.6.7.3 WHERE ALL OF THE FOLLOWING CONDITIONS ARE MET: A. Rp IS GREATER THAN OR EQUAL TO 4.5 (EXCLUDES PIPES OF GLASS, CAST IRON, AND NON-DUCTILE PLASTICS). B. VERTICAL SUPPORT IS PROVIDED BY 3/8 OR 1/2 DIAMETER ROD HANGERS. C. PIPE IS SUPPORTED BY INDIVIDUAL HANGER NOT EXCEEDING 12". D. TOTAL WEIGHT SUPPORTED BY INDIVIDUAL HANGER IS 50 POUNDS OR LESS. 4. SEISMIC BRACING MAY BE OMITTED PER DSA IR-16-13 WHERE ALL OF THE FOLLOWING CONDITIONS ARE MET: A. PIPE DIAMETER IS 1" OR LESS FOR PIPING CONTAINING HAZARDOUS CONTENTS (EX. NATURAL GAS, PROPANE, MEDICAL GASES) WITH AN Ip>1.0. B. PIPE DIAMETER IS 3" OR LESS FOR ALL OTHER PIPING NOT CONTAINING HAZARDOUS CONTENTS WITH AN Ip=1.0. C. VERTICAL SUPPORT IS PROVIDED BY ROD HANGERS. D. PIPING IS INSTALLED WITH PROVISIONS MADE TO AVOID IMPACT WITH OTHER STRUCTURAL AND NON-STRUCTURAL COMPONENTS PER DETAIL B-1.0 OF DSA IR-16-13.					

MECHANICAL SPECIFICATIONS

1. THIS CONTRACTOR SHALL COMPLY WITH ALL CODES AND REGULATIONS IN EFFECT AT THE JOB SITE, INCLUDING, BUT NOT LIMITED TO:
A. 2025 CALIFORNIA BUILDING CODE
B. 2025 CALIFORNIA MECHANICAL CODE
C. 2025 CALIFORNIA PLUMBING CODE
D. 2025 CALIFORNIA ELECTRICAL CODE
E. 2025 CALIFORNIA GREEN BUILDING STANDARDS
F. 2025 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS - TITLE 24
G. NATIONAL FIRE PROTECTION ASSOCIATION
H. CALIFORNIA STATE FIRE MARSHAL
2. DRAWINGS ARE SCHEMATIC AND DIAGRAMMATIC. DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF EQUIPMENT, PIPING, AND OTHER MECHANICAL WORK. USE JUDGEMENT AND CARE TO INSTALL MECHANICAL WORK TO FIT THE JOB CONDITIONS WITHIN THE BUILDING CONSTRUCTION AND FINISHES, AND TO FUNCTION PROPERLY.
3. CONTRACTOR SHALL EXAMINE THE SITE, VERIFY DIMENSIONS AND LOCATIONS WITH DRAWINGS, CHECK UTILITY CONNECTION LOCATIONS, AND FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND LIMITATIONS. NO EXTRAS WILL BE ALLOWED BECAUSE OF THE CONTRACTOR'S MISUNDERSTANDING OF THE AMOUNT OF WORK INVOLVED OR HIS LACK OF KNOWLEDGE OF ANY SITE CONDITION WHICH MAY AFFECT HIS WORK. ANY APPARENT VARIANCE OF THE DRAWINGS OR SPECIFICATIONS FROM THE EXISTING CONDITIONS AT THE SITE SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
4. THIS CONTRACTOR SHALL ORGANIZE HIS WORK SO THAT THE PROGRESS OF THE MECHANICAL WORK WILL CONFORM TO THE PROGRESS OF THE OTHER TRADES, AND SHALL COMPLETE THE ENTIRE INSTALLATION AS SOON AS THE CONDITIONS OF THE BUILDING WILL PERMIT. ANY COST RESULTING FROM DEFECTIVE OR ILL TIMED WORK PERFORMED UNDER THIS SECTION SHALL BE BORNE BY THIS CONTRACTOR.
5. THE WORK SHALL ALSO INCLUDE THE COMPLETION OF DETAILS OF MECHANICAL WORK NOT MENTIONED OR SHOWN WHICH ARE NECESSARY FOR THE SUCCESSFUL OPERATION OF MECHANICAL SYSTEMS DESCRIBED ON THE DRAWINGS OR REQUIRED BY THESE SPECIFICATIONS. FURNISH AND INSTALL ANY INCIDENTAL WORK NOT SHOWN OR SPECIFIED WHICH IS REQUIRED TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
6. ALL MATERIALS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE GUARANTEED FREE FROM ALL MECHANICAL, ELECTRICAL, AND WORKMANSHIP DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ALL DAMAGED ITEMS INSTALLED UNDER THIS CONTRACT WITHOUT ADDITIONAL COST TO OWNER.
7. THE MECHANICAL CONTRACTOR SHALL PROVIDE THE OWNER COPIES OF OPERATION, MAINTENANCE, AND PREVENTATIVE MAINTENANCE MANUALS FOR EACH MODEL AND TYPE OF MECHANICAL EQUIPMENT.
8. SUBMIT MANUFACTURER'S PRODUCT DATA INCLUDING NAME OF MANUFACTURER, TRADE NAME, MODEL, CAPACITY, OPTIONS, DIMENSIONS, WEIGHTS, INSTALLATION AND STARTUP DATA. EQUIPMENT PERFORMANCE SCHEDULED ARE MINIMUM CAPACITY, AIR FLOW, EFFICIENCY, ETC. REQUIRED WEIGHTS AND ELECTRICAL DATA SCHEDULED IS MAXIMUM AVAILABLE OR ALLOWABLE.
9. ALL EQUIPMENT IS TO BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER, USING ALL ACCESSORY EQUIPMENT AVAILABLE FROM THE MANUFACTURER FOR SUPPORTS, CONTROLS, ETC., TO MAKE A COMPLETE SYSTEM. ALL EQUIPMENT OR ACCESSORIES NEEDED AND NOT SHOWN OR SPECIFIED SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. ADJUST THE EQUIPMENT FOR PROPER OPERATION. CHECK ALL CONTROLS AND VERIFY THAT ALL SAFETY DEVICES ARE FUNCTIONING PROPERLY.
10. PROVIDE ACCESS DOORS WHERE ACCESS THROUGH FLOORS, WALLS OR CEILINGS IS REQUIRED TO ACCESS MECHANICAL COMPONENTS OR OTHER SYSTEMS REQUIRING ACCESS FOR MAINTENANCE, TESTING OR OBSERVATION. COORDINATE THE EXACT TYPE AND LOCATION OF ACCESS DOORS TO PROVIDE PROPER ACCESS TO THE ITEM CONCEALED.
11. CHECK ALL SYSTEMS FOR LEAKS AND EXCESSIVE NOISE. CORRECT ANY DEFICIENCIES AS SOON AS DISCOVERED. OPERATE THE SYSTEMS AS A TEST AND DEMONSTRATE TO THE OWNER THAT THE SYSTEM IS FUNCTIONING PROPERLY.
12. INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS, OR CONNECTED EQUIPMENT.
13. MECHANICAL EQUIPMENT AND PIPING SHALL NOT BE WITHIN ELECTRICAL OR LOW VOLTAGE EQUIPMENT DEDICATED SPACE. NO PIPING WILL BE ALLOWED ABOVE EQUIPMENT'S DEDICATED SPACE.
14. ALL EXPOSED DUCTWORK OUTDOORS SHALL BE PREPARED WITH A PRIME COAT AND THEN PAINTED, COLOR BY ARCHITECT.
15. NEW BUILDINGS 10,000 SQUARE FEET AND ABOVE TO BE COMMISSIONED PER REQUIREMENTS LISTED IN CALGREEN SECTION 5.410.2.
16. ADHESIVES, SEALANTS AND CAULKS USED ON THE PROJECT SHALL MEET THE REQUIREMENTS LISTED IN CALGREEN SECTION 5.504.4.1.
17. MINIMUM MERV-8 FILTERS TO BE USED FOR ANY PERMANENT HVAC SYSTEM IN OPERATION DURING CONSTRUCTION. REPLACE ALL FILTERS WITH MINIMUM MERV-13 PRIOR TO OCCUPANCY OR AT THE CONCLUSION OF CONSTRUCTION PER CALGREEN SECTION 5.504.4.2.
18. DURING CONSTRUCTION, ALL HVAC EQUIPMENT, DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENTS SHALL BE COVERED WITH TAPE, PLASTIC, OR SHEET METAL TO REDUCE THE AMOUNT OF DUST, WATER AND DEBRIS WHICH MAY ENTER THE SYSTEM PER CALGREEN SECTION 5.504.3.
19. ALL MECHANICAL VENTILATION SYSTEMS SHALL HAVE FILTRATION MEDIA FOR OUTSIDE AIR AND RETURN AIR WHICH PROVIDES MINIMUM MERV-13 FILTRATION. FILTRATION MEDIA SHALL BE REPLACED PRIOR TO OCCUPANCY AND SHALL BE CLEARLY LABELED WITH MERV RATING PER CALGREEN SECTION 5.504.5.3.
20. ALL REFRIGERANTS USED OR PROVIDED ON THIS PROJECT SHALL MEET THE OZONE DEPLETION AND GREENHOUSE GAS REDUCTION REQUIREMENTS PER CALGREEN SECTION 5.508.1.

EQUIPMENT ANCHORAGE NOTES

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 2025 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-22 CHAPTERS 13, 26 AND 30.

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- 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 RECEPTACLES HAVING A FLEXIBLE CABLE.
- 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:

- 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.
- COMPONENTS WEIGHING LESS THAN 400 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.

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 ABOVE REQUIREMENTS.

PIPING AND DUCTWORK DISTRIBUTION SYSTEM BRACING NOTES

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7 SECTION 13.3 AS DEFINED IN ASCE 7 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8 AND 2025 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. THE MEP DESIGN PROFESSIONAL ENGINEER RESPONSIBLE FOR CONTENT ON THESE SHEETS HAS VERIFIED THAT THE DESIGN METHODS IDENTIFIED BELOW ARE IN ACCORDANCE WITH DSA IR 16-13.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E)

- MP MD PP E
- ☒ ☒ ☐ ☐ OPTION 1: PROJECT-SPECIFIC DESIGN.
- ☐ ☐ ☐ ☐ OPTION 2: DESIGN BASED ON OSHPD OPM, WITHIN PROJECT SUBMITTAL
- ☐ ☐ ☐ ☐ OPTION 3: DESIGN BASED ON OSHPD OPM, DEFERRED SUBMITTAL

HYDRONIC LEGEND

SYMBOL	ITEM	ABBR.
----	HEATING HOT WATER SUPPLY	HHWS
----	HEATING HOT WATER RETURN	HHWR
----	CHILLED WATER SUPPLY	CHWS
----	CHILLED WATER RETURN	CHWR
	2-WAY CONTROL VALVE	
	3-WAY CONTROL VALVE	
	ACTUATOR	
	AIR FLOW MONITORING STATION	AFMS
	AIR LINE	
	ANGLE GLOBE VALVE	
	AUTOMATIC AIR VENT	AAV
	BALANCING VALVE	
	BALL VALVE	BAL
	BACKFLOW PREVENTOR	BFP
	BASE MOUNTED PUMP	
	BLIND FLANGE	
	BUTTERFLY VALVE	BFV
	CAPPED OR PLUGGED TEE	
	CHECK VALVE	
	CURRENT SENSOR	
	DIAPHRAM VALVE	
	DIFFERENTIAL PRESSURE SENSOR	DPS
	DIRECTION OF SLOPE	
	DUCT HUMIDITY SENSOR	
	DUCT TEMPERATURE SENSOR	
	EXPANSION JOINT	
	FLEXIBLE CONNECTOR	FC
	FLOW METER	FM
	FLOW SENSOR OR SWITCH	FS
	GATE VALVE	GV
	ANGLE GATE VALVE	AGV
	PRESSURE REDUCING VALVE	PRV
	SOLENOID VALVE	SOL
	GLOBE VALVE	GLV
	HUMIDITY SENSOR OR HUMIDISTAT	
	HYDROGEN MONITOR	HM
	HYDROGEN SENSOR	HS
	INLINE PUMP	
	LOCK SHIELD VALVE	
	MANUAL AIR VENT	MAV
	MOTOR	
	MOTORIZED BUTTERFLY VALVE	MBFV
	NEEDLE VALVE	
	NON-SLAM WAFER CHECK VALVE	
	PIPE ALIGNMENT GUIDE	
	PIPE HANGER	
	PNEUMATIC CONTROL VALVE	
	PRESSURE GAUGE	
	PRESSURE GAUGE W/ COCK AND SNUBBER	
	PRESSURE SENSOR OR SWITCH	PS
	QUICK OPENING VALVE	
	REDUCER - CONCENTRIC	RED
	REDUCER - ECCENTRIC	
	REFRIGERANT MONITOR	
	REFRIGERANT SENSOR	
	RELIEF VALVE - PRESSURE AND TEMPERATURE	T&P
	STRAINER	
	STRAINER W/ BLOW OFF VALVE	
	TEMPERATURE SENSOR	TS
	TEST TAP (PETE'S PLUG)	PP
	THERMOMETER	THERM
	UNION	
	VACUUM BREAKER	
	VALVE ON RISE	
	VENTURI FLOW METER	

MECHANICAL SHEET INDEX

SHEET NUMBER	SHEET NAME
M-001	MECHANICAL LEGEND, NOTES, AND SCHEDULES
M-110	MECHANICAL FLOOR PLAN & DEMOLITION PLAN
M-111	MECHANICAL PIPING FLOOR PLAN & DEMOLITION PLAN
M-801	MECHANICAL DETAILS

MECHANICAL LEGEND

SYMBOL	ITEM	ABBR.
	SUPPLY AIR	SA
	RETURN AIR	RA
	EXHAUST AIR	EA
	OUTSIDE AIR	OSA
	TRANSFER AIR	TA
	DETAIL DESIGNATION DETAIL NUMBER SHEET NO. WHERE SHOWN	
	EQUIPMENT DESIGNATION UNIT ABBREVIATION NUMBER	
	GRILLE DESIGNATION NECK SIZE CFM	
	FIRE DAMPER WHERE REQ'D	
	ACOUSTIC LINED DUCT	L
	TURNING VANES	TV
	DUCT FLEXIBLE CONNECTION	
	DUCT RISER	
	DUCT DROP	
	RECTANGULAR TO ROUND FITTING	
	VOLUME CONTROL DAMPER	VD
	FIRE DAMPER W/ ACCESS	FSD
	FIRE SMOKE DAMPER W/ ACCESS	FSD
	CILING RADIATION DAMPER	CRD
	OPPOSED BLADE DAMPER	OBD
	BACKDRAFT DAMPER	BDD
	DUCT FLEX CONNECTOR	FC
	MOTORIZED DAMPER	
	THERMOSTAT @ +48° AFF (MAX.) (TOP OF BOX)	T-STAD
	SENSOR @ +48° AFF	
	STATIC PRESSURE SENSOR @ +48° AFF	
	CARBON MONOXIDE SENSOR @ +48° AFF	
	CARBON DIOXIDE SENSOR @ +48° AFF	
	TIMECLOCK @ +48° AFF	
	TEMPERATURE CONTROL PANEL	TCP
	DUCT SMOKE DETECTOR	SD
	PIPE RISER / DROP	(R) / (D)
	FROM ABOVE	(F) / (A)
	FROM BELOW	(F) / (B)
	TO ABOVE	(T) / (A)
	TO BELOW	(T) / (B)
	ABOVE FINISHED FLOOR	AFF
	UNLESS OTHERWISE NOTED	UON
	TYPICAL	(TYP)
	BOTTOM OF DUCT	BOT
	UNDERCUT DOOR 3/4"	UCD
	NEW	(N)
	EXISTING	(E)
	POINT OF DIS/CONNECTION	POD(PC)
	REFRIGERANT LIQUID	RL
	REFRIGERANT SUCTION	RS
	DEMOLISHED/DEMO	

0 1/4" 1/2" 1" 2" 3" 4" 5" 6" 7" 8" 9" 10" 11" 12" 13" 14" 15" 16" 17" 18" 19" 20" 21" 22" 23" 24" 25" 26" 27" 28" 29" 30" 31" 32" 33" 34" 35" 36" 37" 38" 39" 40" 41" 42" 43" 44" 45" 46" 47" 48" 49" 50" 51" 52" 53" 54" 55" 56" 57" 58" 59" 60" 61" 62" 63" 64" 65" 66" 67" 68" 69" 70" 71" 72" 73" 74" 75" 76" 77" 78" 79" 80" 81" 82" 83" 84" 85" 86" 87" 88" 89" 90" 91" 92" 93" 94" 95" 96" 97" 98" 99" 100" 101" 102" 103" 104" 105" 106" 107" 108" 109" 110" 111" 112" 113" 114" 115" 116" 117" 118" 119" 120" 121" 122" 123" 124" 125" 126" 127" 128" 129" 130" 131" 132" 133" 134" 135" 136" 137" 138" 139" 140" 141" 142" 143" 144" 145" 146" 147" 148" 149" 150" 151" 152" 153" 154" 155" 156" 157" 158" 159" 160" 161" 162" 163" 164" 165" 166" 167" 168" 169" 170" 171" 172" 173" 174" 175" 176" 177" 178" 179" 180" 181" 182" 183" 184" 185" 186" 187" 188" 189" 190" 191" 192" 193" 194" 195" 196" 197" 198" 199" 200" 201" 202" 203" 204" 205" 206" 207" 208" 209" 210" 211" 212" 213" 214" 215" 216" 217" 218" 219" 220" 221" 222" 223" 224" 225" 226" 227" 228" 229" 230" 231" 232" 233" 234" 235" 236" 237" 238" 239" 240" 241" 242" 243" 244" 245" 246" 247" 248" 249" 250" 251" 252" 253" 254" 255" 256" 257" 258" 259" 260" 261" 262" 263" 264" 265" 266" 267" 268" 269" 270" 271" 272" 273" 274" 275" 276" 277" 278" 279" 280" 281" 282" 283" 284" 285" 286" 287" 288" 289" 290" 291" 292" 293" 294" 295" 296" 297" 298" 299" 300" 301" 302" 303" 304" 305" 306" 307" 308" 309" 310" 311" 312" 313" 314" 315" 316" 317" 318" 319" 320" 321" 322" 323" 324" 325" 326" 327" 328" 329" 330" 331" 332" 333" 334" 335" 336" 337" 338" 339" 340" 341" 342" 343" 344" 345" 346" 347" 348" 349" 350" 351" 352" 353" 354" 355" 356" 357" 358" 359" 360" 361" 362" 363" 364" 365" 366" 367" 368" 369" 370" 371" 372" 373" 374" 375" 376" 377" 378" 379" 380" 381" 382" 383" 384" 385" 386" 387" 388" 389" 390" 391" 392" 393" 394" 395" 396" 397" 398" 399" 400" 401" 402" 403" 404" 405" 406" 407" 408" 409" 410" 411" 412" 413" 414" 415" 416" 417" 418" 419" 420" 421" 422" 423" 424" 425" 426" 427" 428" 429" 430" 431" 432" 433" 434" 435" 436" 437" 438" 439" 440" 441" 442" 443" 444" 445" 446" 447" 448" 449" 450" 451" 452" 453" 454" 455" 456" 457" 458" 459" 460" 461" 462" 463" 464" 465" 466" 467" 468" 469" 470" 471" 472" 473" 474" 475" 476" 477" 478" 479" 480" 481" 482" 483" 484" 485" 486" 487" 488" 489" 490" 491" 492" 493" 494" 495" 496" 497" 498" 499" 500" 501" 502" 503" 504" 505" 506" 507" 508" 509" 510" 511" 512" 513" 514" 515" 516" 517" 518" 519" 520" 521" 522" 523" 524" 525" 526" 527" 528" 529" 530" 531" 532" 533" 534" 535" 536" 537" 538" 539" 540" 541" 542" 543" 544" 545" 546" 547" 548" 549" 550" 551" 552" 553" 554" 555" 556" 557" 558" 559" 560" 561" 562" 563" 564" 565" 566" 567" 568" 569" 570" 571" 572" 573" 574" 575" 576" 577" 578" 579" 580" 581" 582" 583" 584" 585" 586" 587" 588" 589" 590" 591" 592" 593" 594" 595" 596" 597" 598" 599" 600" 601" 602" 603" 604" 605" 606" 607" 608" 609" 610" 611" 612" 613" 614" 615" 616" 617" 618" 619" 620" 621" 622" 623" 624" 625" 626" 627" 628" 629" 630" 631" 632" 633" 634" 635" 636" 637" 638" 639" 640" 641" 642" 643" 644" 645" 646" 647" 648" 649" 650" 651" 652" 653" 654" 655" 656" 657" 658" 659" 660" 661" 662" 663" 664" 665" 666" 667" 668" 669" 670" 671" 672" 673" 674" 675" 676" 677" 678" 679" 680" 681" 682" 683" 684" 685" 686" 687" 688" 689" 690" 691" 692" 693" 694" 695" 696" 697" 698" 699" 700" 701" 702" 703" 704" 705" 706" 707" 708" 709" 710" 711" 712" 713" 714" 715" 716" 717" 718" 719" 720" 721" 722" 723" 724" 725" 726" 727" 728" 729" 730" 731" 732" 733" 734" 735" 736" 737" 738" 739" 740" 741" 742" 743" 744" 745" 746" 747" 748" 749" 750" 751" 752" 753" 754" 755" 756" 757" 758" 759" 760" 761" 762" 763" 764" 765" 766" 767" 768" 769" 770" 771" 772" 773" 774" 775" 776" 777" 778" 779" 780" 781" 782" 783" 784" 785" 786" 787" 788" 789" 790" 791" 792" 793" 794" 795" 796" 797" 798" 799" 800" 801" 802" 803" 804" 805" 806" 807" 808" 809" 810" 811" 812" 813" 814" 815" 816" 817" 818" 819" 820" 821" 822" 823" 824" 825" 826" 827" 828" 829" 830" 831" 832" 833" 834" 835" 836" 837" 838" 839" 840" 841" 842" 843" 844" 845" 846" 847" 848" 849" 850" 851" 852" 853" 854" 855" 856" 857" 858" 859" 860" 861" 862" 863" 864" 865" 866" 867" 868" 869" 870" 871" 872" 873" 874" 875" 876" 877" 878" 879" 880" 881" 882" 883" 884" 885" 886" 887" 888" 889" 890" 891" 892" 893" 894" 895" 896" 897" 898" 899" 900" 901" 902" 903" 904" 905" 906" 907" 908" 909" 910" 911" 912" 913" 914" 915" 916" 917" 918" 919" 920" 921" 922" 923" 924" 925" 926" 927" 928" 929" 930" 931" 932" 933" 934" 935" 936" 937" 938" 939" 940" 941" 942" 943" 944" 945" 946" 947" 948" 949" 950" 951" 952" 953" 954" 955" 956" 957" 958" 959" 960" 961" 962" 963" 964" 965" 966" 967" 968" 969" 970" 971" 972" 973" 974" 975" 976" 977" 978" 979" 980" 981" 982" 983" 984" 985" 986" 987" 988" 989" 990" 991" 992" 993" 994" 995" 996" 997" 998" 999" 1000

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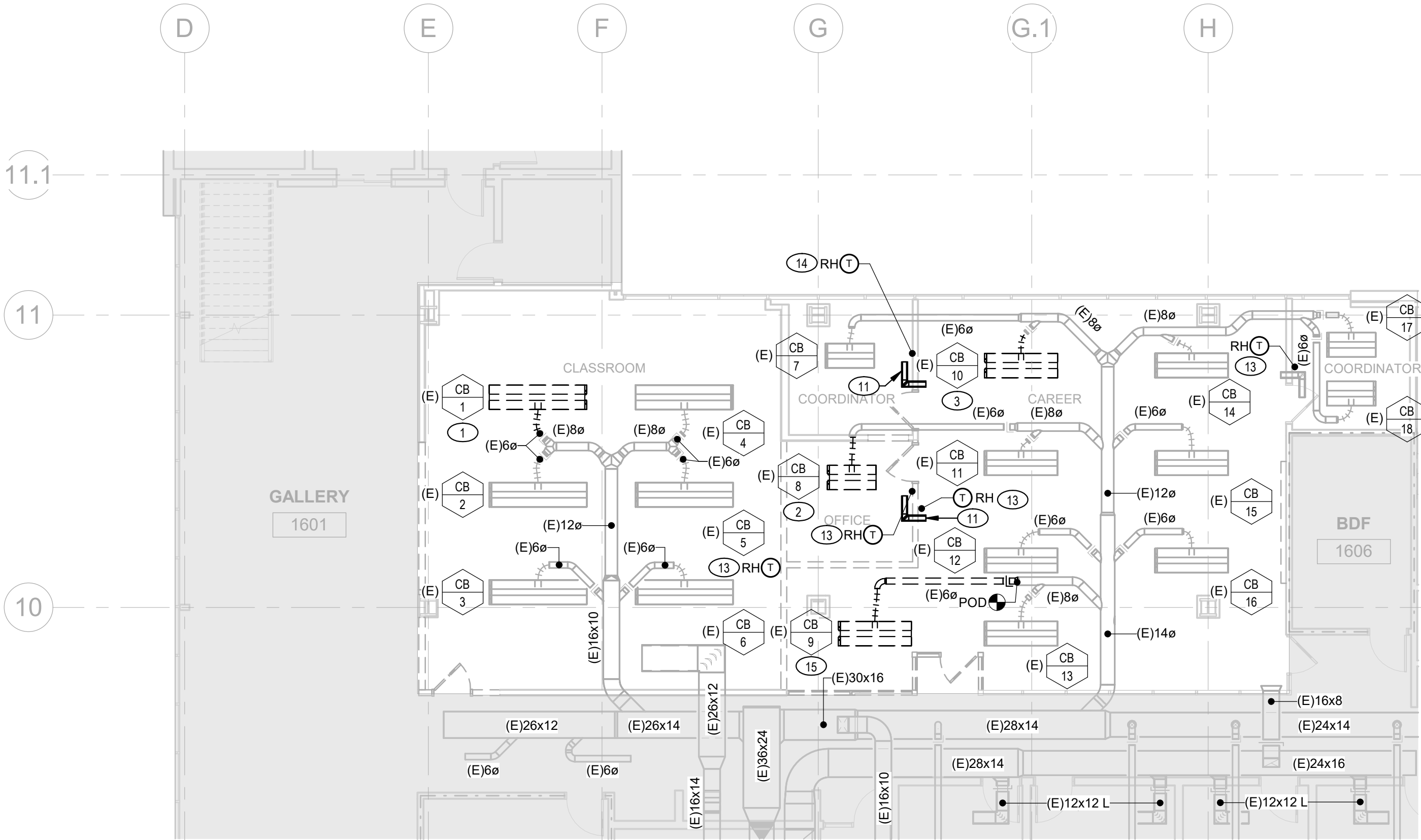
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GENERAL NOTES

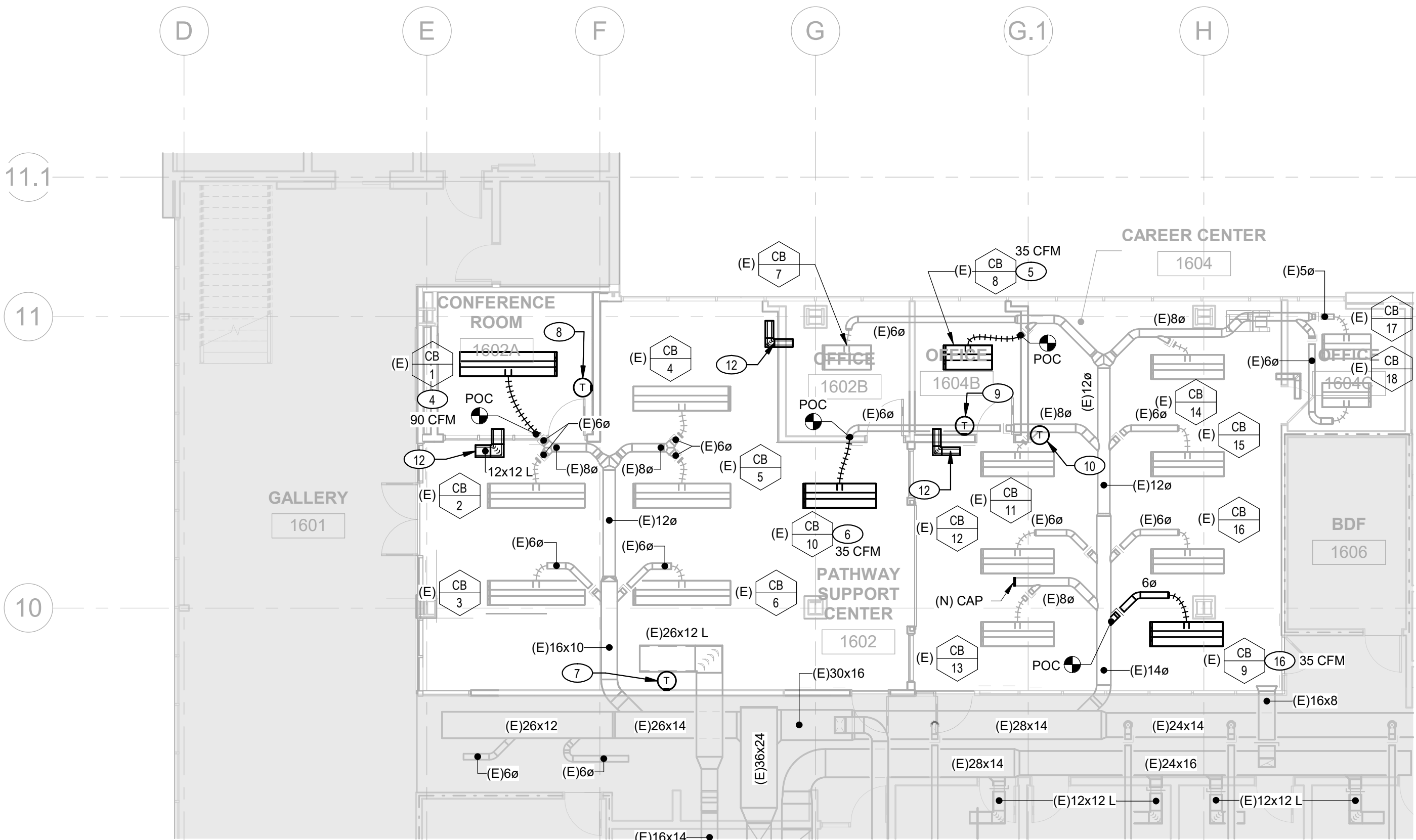
- A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK. REPORT ANY CONFLICTS/DISCREPANCIES TO ARCHITECT/ENGINEER.
- B. ALL HVAC EQUIPMENT, DUCTWORK, CONTROLS, AND PIPING SHALL REMAIN UNLESS OTHERWISE NOTED.
- C. PATCH, REPAIR, AND FINISH AS NECESSARY FOR ANY DAMAGES DURING DEMOLITION AND INSTALL.
- D. MECHANICAL/TCC CONTRACTOR SHALL REVISE ALL EMS PROGRAMMING AND GRAPHICS TO REPRESENT FINAL HVAC INSTALLATION INCLUDING BUT NOT LIMITED TO CHILLED BEAM LOCATIONS, SEQUENCES OF OPERATION, ETC.
- E. MECHANICAL/TCC CONTRACTOR SHALL PROVIDE AND INSTALL ALL CONTROLS COMPONENTS, CONDUIT, WIRING, CONTROL VALVES, ETC. FOR COMPLETE AN OPERATIONAL SYSTEM.

KEY NOTES

1. EXISTING CHILLED BEAM CB-1 TO BE RELOCATED, SEE NEW FLOOR PLAN FOR LOCATION.
2. EXISTING CHILLED BEAM CB-8 TO BE RELOCATED, SEE NEW FLOOR PLAN FOR LOCATION.
3. EXISTING CHILLED BEAM CB-10 TO BE RELOCATED, SEE NEW FLOOR PLAN FOR LOCATION.
4. RELOCATE EXISTING CHILLED BEAM CB-1 TO BE CENTERED IN NEW CONFERENCE ROOM. COORDINATE WITH NEW CEILING TILE LAYOUT. PROVIDE NEW FLEX DUCT FOR CONNECTION TO RELOCATED CHILLED BEAM. PROVIDE NECESSARY DUCTWORK, FITTINGS, AND ACCESSORIES FOR A COMPLETE AND OPERABLE SYSTEM. RE-BALANCE PRIMARY AIRFLOW TO FLOWRATE SHOWN.
5. RELOCATE EXISTING CHILLED BEAM CB-8 TO BE CENTERED IN NEW OFFICE. COORDINATE WITH NEW CEILING TILE LAYOUT. PROVIDE NEW FLEX DUCT FOR CONNECTION TO RELOCATED CHILLED BEAM. PROVIDE NECESSARY DUCTWORK, FITTINGS, AND ACCESSORIES FOR A COMPLETE AND OPERABLE SYSTEM. RE-BALANCE PRIMARY AIRFLOW TO FLOWRATE SHOWN.
6. RELOCATE EXISTING CHILLED BEAM CB-10 TO BE ALIGNED WITH CHILLED BEAM CB-5. PROVIDE NEW FLEX DUCT FOR CONNECTION TO RELOCATED CHILLED BEAM. PROVIDE NECESSARY DUCTWORK, FITTINGS, AND ACCESSORIES FOR A COMPLETE AND OPERABLE SYSTEM. RE-BALANCE PRIMARY AIRFLOW TO FLOWRATE SHOWN.
7. RELOCATE EXISTING TEMPERATURE AND HUMIDITY SENSORS FROM THE DEMOLISHED WALL AT OFFICE 112A TO THIS LOCATION.
8. CONNECT EXISTING ACTIVE CHILLED BEAM TO NEW TEMPERATURE AND HUMIDITY SENSOR.
9. RELOCATE THE EXISTING ACTIVE CHILLED BEAM AND RELATED TEMPERATURE AND HUMIDITY SENSORS INTO NEW OFFICE. MODIFY AND RECONNECT TO THE EXISTING DUCTWORK AND CHILLED/HEATING HOT WATER PIPING.
10. RELOCATE EXISTING TEMPERATURE AND HUMIDITY SENSORS FROM THE DEMOLISHED WALL AT OFFICE 112A TO THIS LOCATION.
11. EXISTING TRANSFER BOOT TO BE REMOVED.
12. PROVIDE NEW TRANSFER BOOT. TYPICAL AT EACH PRIVATE OFFICE/CONFERENCE ROOM.
13. EXISTING TEMPERATURE AND HUMIDITY SENSOR TO BE RELOCATED. SEE 1/M-110 FOR NEW LOCATION.
14. EXISTING TEMPERATURE AND HUMIDITY SENSOR TO REMAIN.
15. EXISTING CHILLED BEAM CB-9 TO BE RELOCATED, SEE NEW FLOOR PLAN FOR LOCATION.
16. RELOCATE EXISTING CHILLED BEAM CB-9 TO BE ALIGNED WITH CHILLED BEAM CB-13 AND CB-16. PROVIDE NEW FLEX DUCT FOR CONNECTION TO RELOCATED CHILLED BEAM. PROVIDE NECESSARY DUCTWORK, FITTINGS, AND ACCESSORIES FOR A COMPLETE AND OPERABLE SYSTEM. RE-BALANCE PRIMARY AIRFLOW TO FLOWRATE SHOWN.

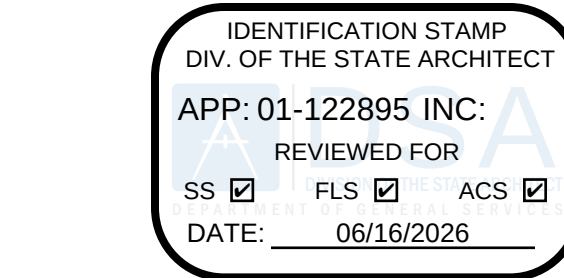
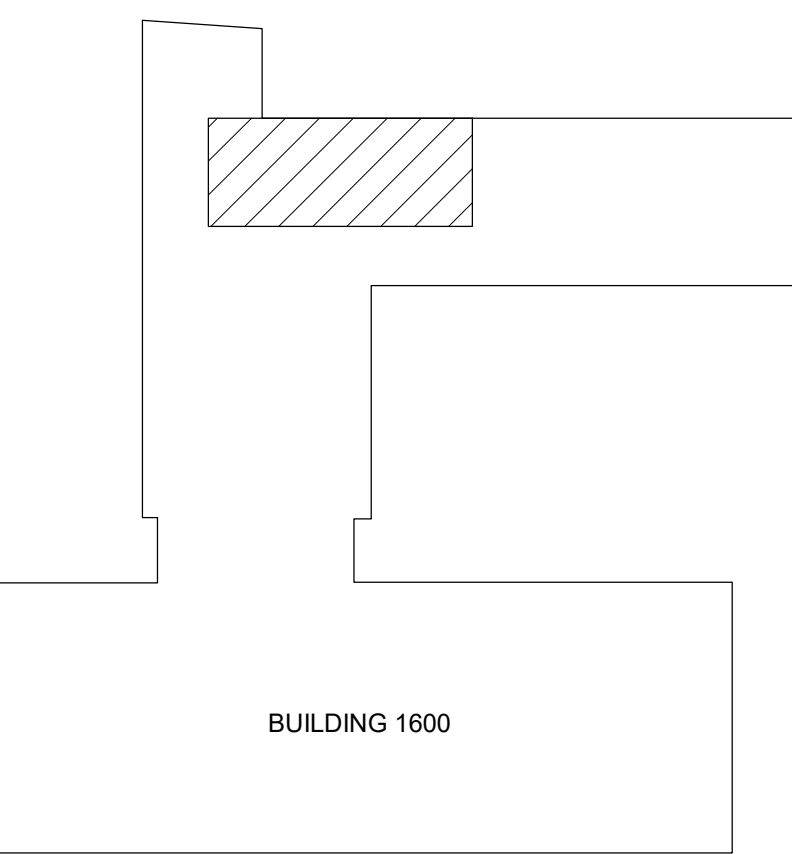


2 MECHANICAL DEMOLITION FLOOR PLAN
SCALE: 1/8" = 1'-0"



1 MECHANICAL FLOOR PLAN
SCALE: 1/8" = 1'-0"

KEY PLAN



LIONAKIS

1111 Broadway, Suite 200
Oakland, CA 94607
P 510.338.6060 F 510.338.6099
www.lionakis.com

CONSULTANT

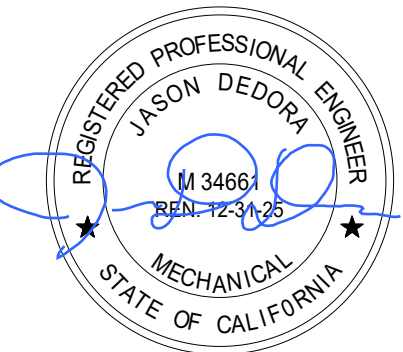


MEP & F5 / Sustainability / CxA

1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778

www.lpengines.com
Job #: 25-2030

SEAL



PROJECT

PATHWAYS SUPPORT CENTER
RENOVATION

3000 CAMPUS HILL DR
LIVERMORE, CA 94551

CLIENT

CHABOT-LAS POSITAS COMMUNITY COLLEGE
DISTRICT
3000 CAMPUS HILL DRIVE LIVERMORE, CA 94551

ISSUED

MARK	DATE	DESCRIPTION
	02/19/2026	DSA SUBMITTAL
	06/02/2026	DSA BACKCHECK

MANAGEMENT

LIONAKIS PROJECT NO. 024003
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TITLE

MECHANICAL FLOOR
PLAN & DEMOLITION
PLAN

SHEET

M-110

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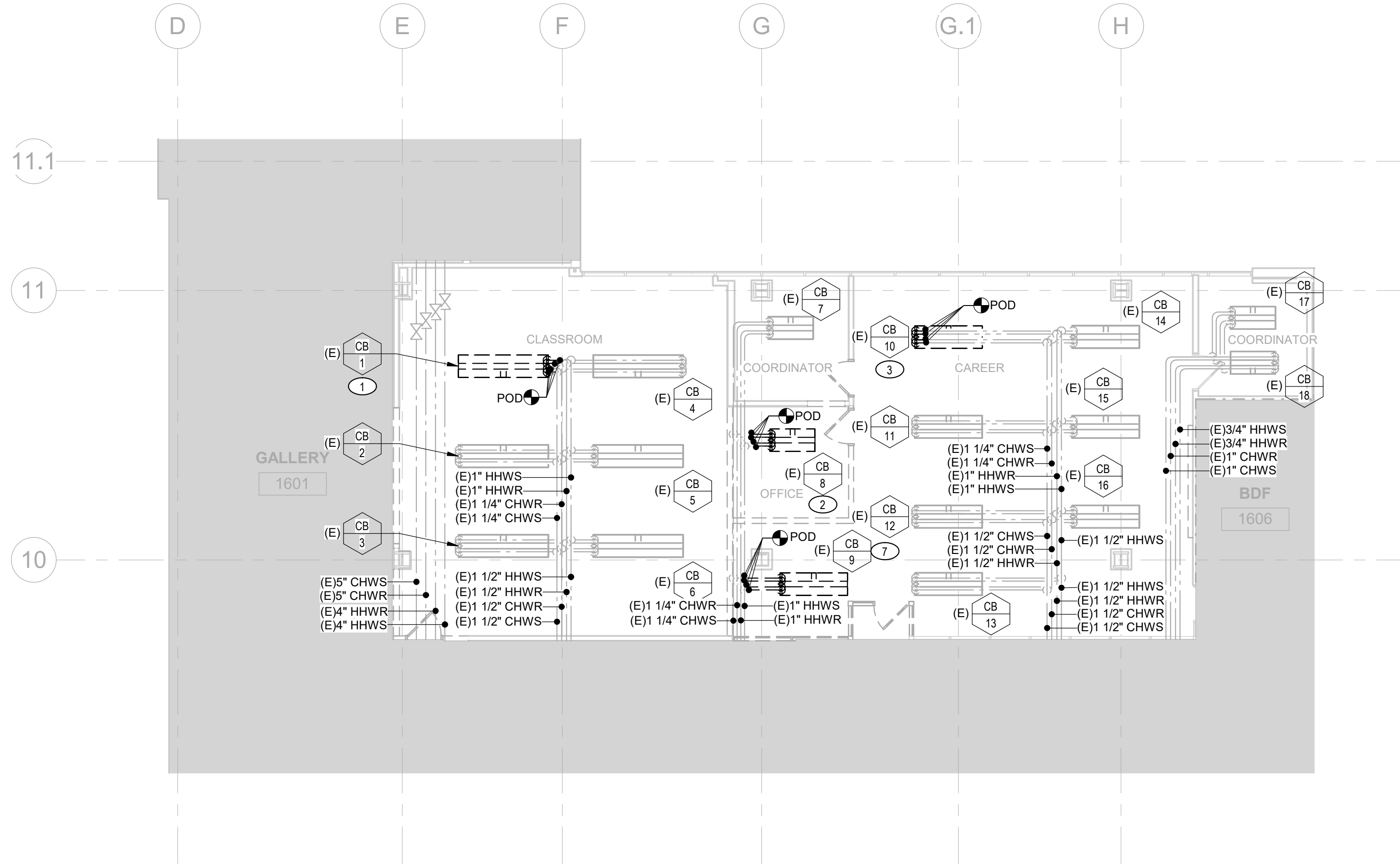
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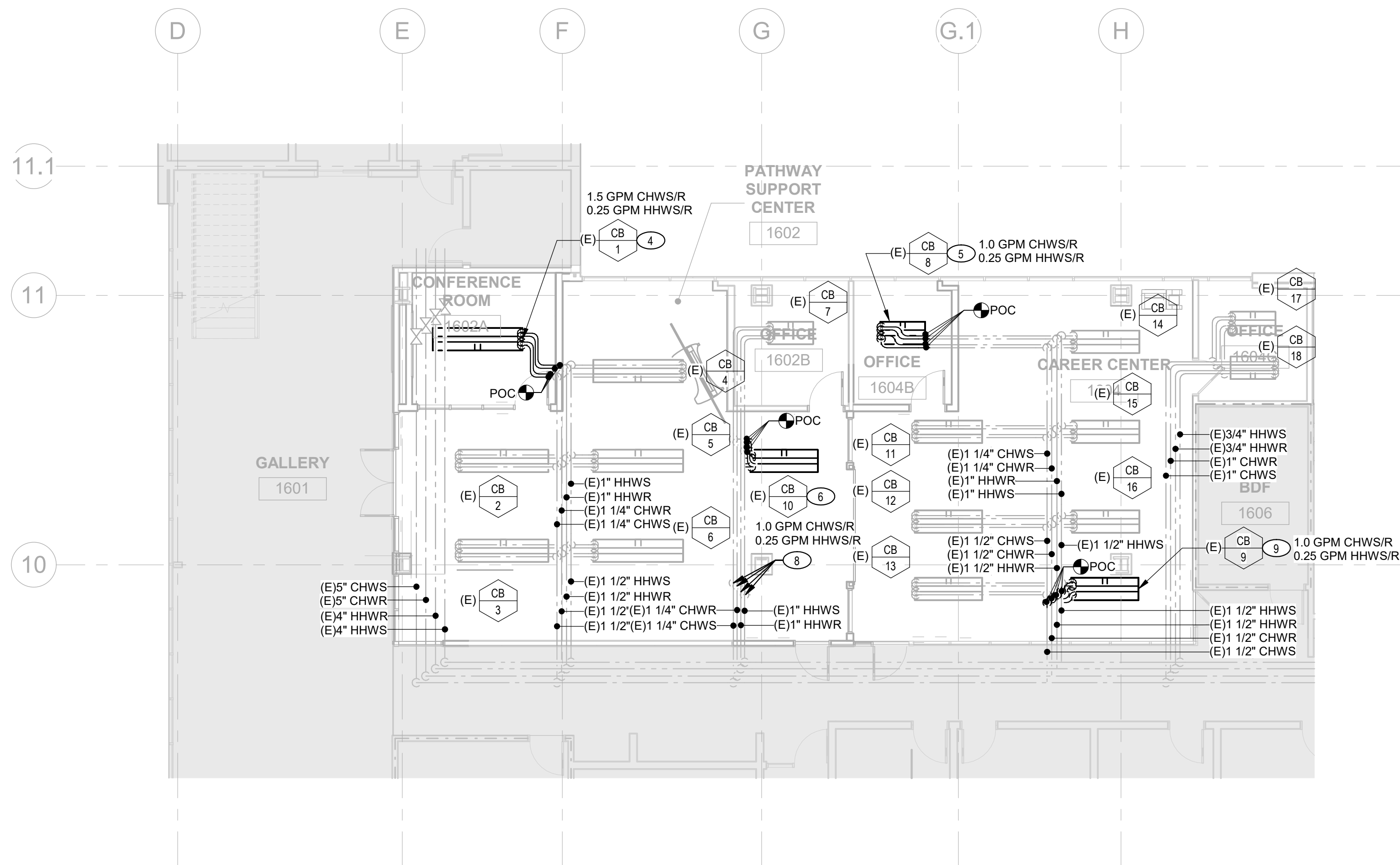
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2 MECHANICAL PIPING DEMOLITION FLOOR PLAN
SCALE: 1/8" = 1'-0"



1 MECHANICAL PIPING FLOOR PLAN
SCALE: 1/8" = 1'-0"

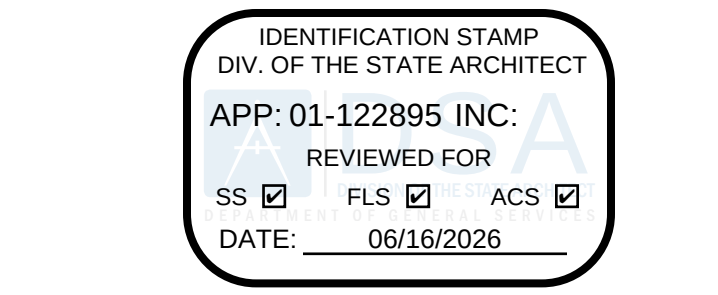
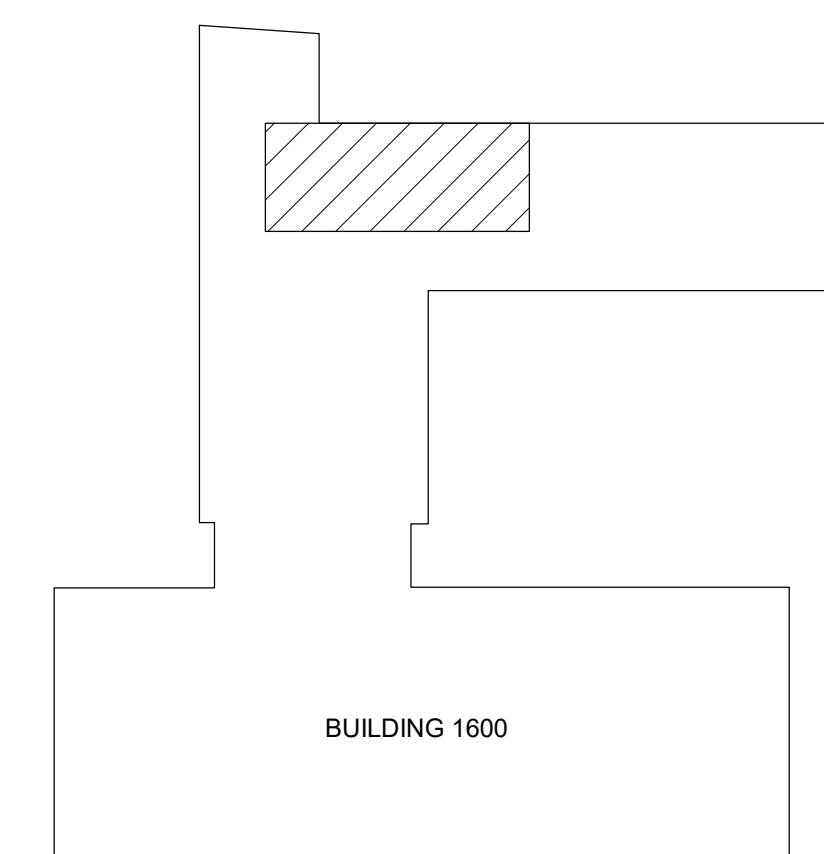
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- EXISTING CHILLED BEAM CB-1 TO BE RELOCATED, SEE NEW FLOOR PLAN FOR LOCATION.
- EXISTING CHILLED BEAM CB-8 TO BE RELOCATED, SEE NEW FLOOR PLAN FOR LOCATION.
- EXISTING CHILLED BEAM CB-10 TO BE RELOCATED, SEE NEW FLOOR PLAN FOR LOCATION.
- RELOCATE EXISTING CHILLED BEAM CB-1 TO BE CENTERED IN NEW CONFERENCE ROOM. COORDINATE WITH NEW CEILING TILE LAYOUT. MODIFY AND RECONNECT TO THE EXISTING CHILLED/HEATING HOT WATER PIPING. PROVIDE NECESSARY PIPE, FITTINGS, AND ACCESSORIES FOR A COMPLETE AND OPERABLE SYSTEM. RE-BALANCE CHWS/R AND HHWS/R TO FLOWRATES SHOWN.
- RELOCATE EXISTING CHILLED BEAM CB-8 TO BE CENTERED IN NEW OFFICE. COORDINATE WITH NEW CEILING TILE LAYOUT. MODIFY AND RECONNECT TO THE EXISTING CHILLED/HEATING HOT WATER PIPING. PROVIDE NECESSARY PIPE, FITTINGS, AND ACCESSORIES FOR A COMPLETE AND OPERABLE SYSTEM. RE-BALANCE CHWS/R AND HHWS/R TO FLOWRATES SHOWN.
- RELOCATE EXISTING CHILLED BEAM CB-10 TO BE ALIGNED WITH CHILLED BEAM CB-5. MODIFY AND RECONNECT TO THE EXISTING CHILLED/HEATING HOT WATER PIPING. PROVIDE NECESSARY PIPE, FITTINGS, AND ACCESSORIES FOR A COMPLETE AND OPERABLE SYSTEM. RE-BALANCE CHWS/R AND HHWS/R TO FLOWRATES SHOWN.
- EXISTING CHILLED BEAM CB-9 TO BE RELOCATED, SEE NEW FLOOR PLAN FOR LOCATION.
- CAP EXISTING CHWS/R AND HHWS/R AT MAIN.
- RELOCATE EXISTING CHILLED BEAM CB-9 TO BE ALIGNED WITH CHILLED BEAM CB-13 AND CB-16. MODIFY AND RECONNECT TO THE EXISTING CHILLED/HEATING HOT WATER PIPING. PROVIDE NECESSARY PIPE, FITTINGS, AND ACCESSORIES FOR A COMPLETE AND OPERABLE SYSTEM. RE-BALANCE CHWS/R AND HHWS/R TO FLOWRATES SHOWN.

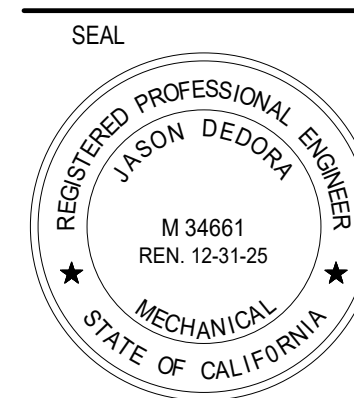
KEY PLAN



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Job #: 25-2030



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CHABOT-LAS POSITAS COMMUNITY COLLEGE
DISTRICT
3000 CAMPUS HILL DRIVE LIVERMORE, CA 94551

ISSUED		
MARK	DATE	DESCRIPTION
	02/19/2026	DSA SUBMITTAL
	06/02/2026	DSA BACKCHECK

MANAGEMENT
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TITLE
MECHANICAL PIPING
FLOOR PLAN &
DEMOLITION PLAN

SHEET
M-111

0 1/4" = 1' IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT - SCALE ACCORDINGLY

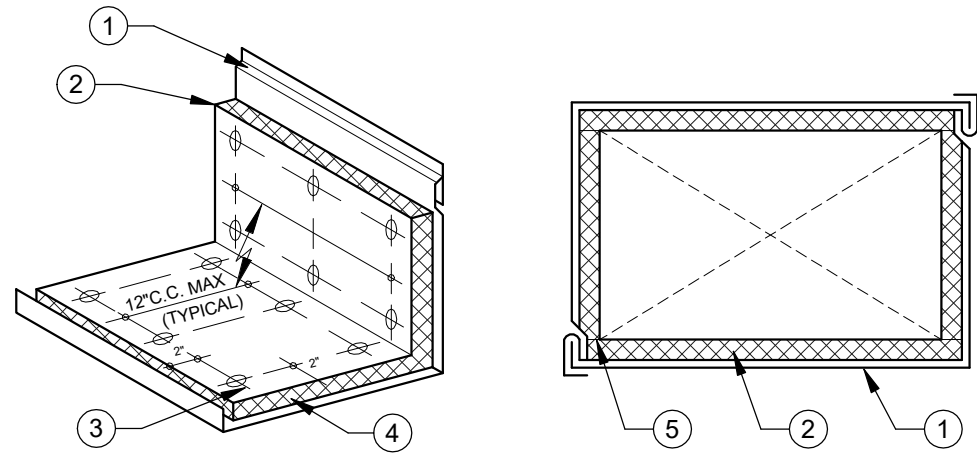
4/25/2025 3:21:34 PM Autodesk Docs (7/25/2020) Las Positas College Bldg 1600/25-2000_Las Positas College Bldg 1600_MEP-F&V-FP_24.rvt

DIMENSION OF LONGEST SIDE, INCHES	SHEET METAL GAGE (ALL FOUR SIDES)	MINIMUM REINFORCING ANGLE SIZE AND MAXIMUM LONGITUDINAL SPACING BETWEEN TRANSVERSE JOINTS &/OR INTERMEDIATE REINFORCING	TRANSVERSE REINFORCING (1)			
			AT JOINTS			
			MIN. HT. IN.	DRIVE SLIP	HEMME S SLIP	ALTERN T BAR SLIP
UP THRU 12	26	NONE REQUIRED	1	26	26	24
13 - 18	24	NONE REQUIRED	1	24	24	24
19 - 30	24	1" x 1" x 1/8" @ 60 IN.	1		24	24
31 - 42	22	1" x 1" x 1/8" @ 60 IN.	1			22

(1) TRANSVERSE REINFORCING SIZE IS DETERMINED BY DIMENSION OF SIDE TO WHICH ANGLE IS APPLIED.

DUCT CONSTRUCTION STANDARDS	NTS	4
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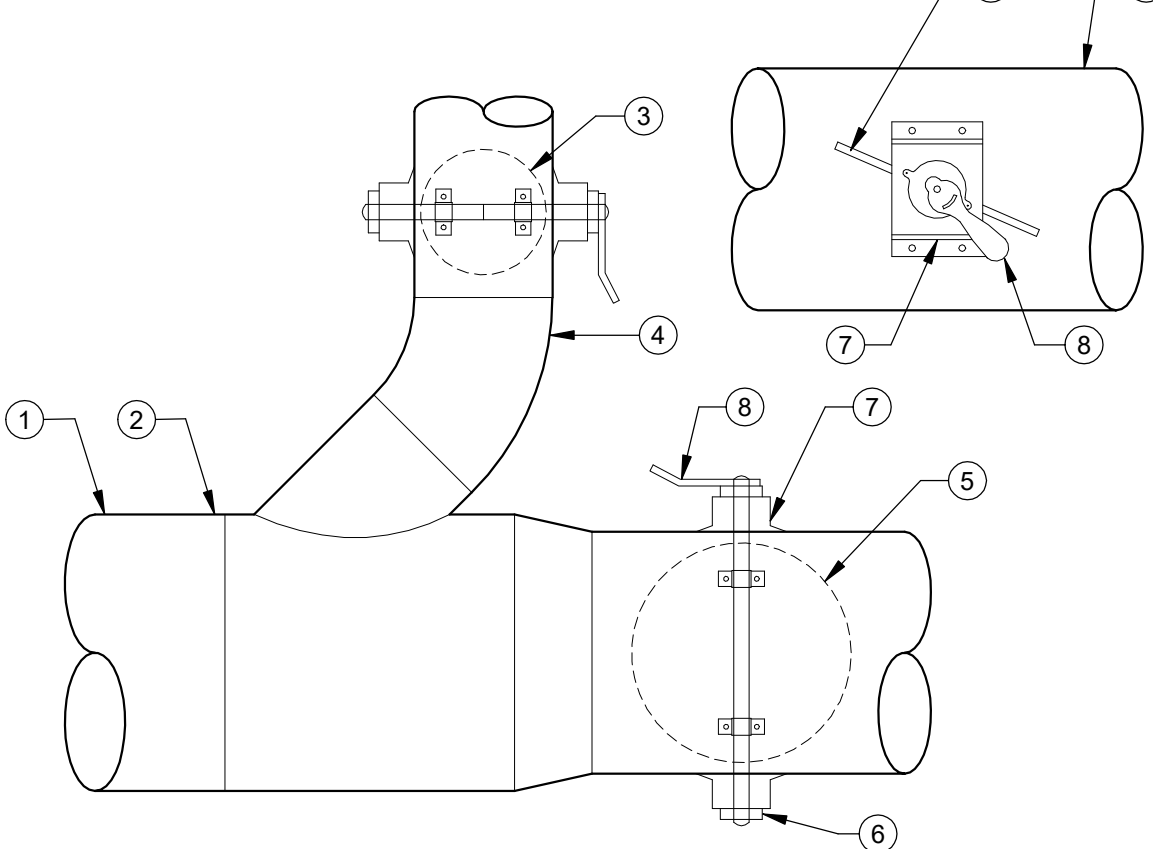
1. GALVANIZED SHEET METAL DUCT.
2. 1" THICK ACOUSTIC DUCT LINER. LINER TO BE ADHERED TO DUCT. w/ 100% ADHESIVE (MIRACLE PF90)
3. NOT MORE THAN 2" FROM LEDGE OF DUCT LINER.
4. ALL ENDS OF LINER TO BE COATED WITH ADHESIVE. (MIRACLE PF90). ENDS OF LINER SHALL BE BUTTED FIRMLY TOGETHER.
5. TOP AND BOTTOM SECTIONS OF LINER SHALL OVERLAP THE SIDES.



METAL FASTENERS:
OMARK INSUL-FINS: DURA DYNE FASTENERS OR GRIP NAILS. GRIP NAILS SHALL BE INSULATED BY " GRIP NAIL AIR-HAMMER" OR BY AUTOMATIC FASTENER EQUIPMENT.

ACOUSTIC LINED DUCTS	NTS	5
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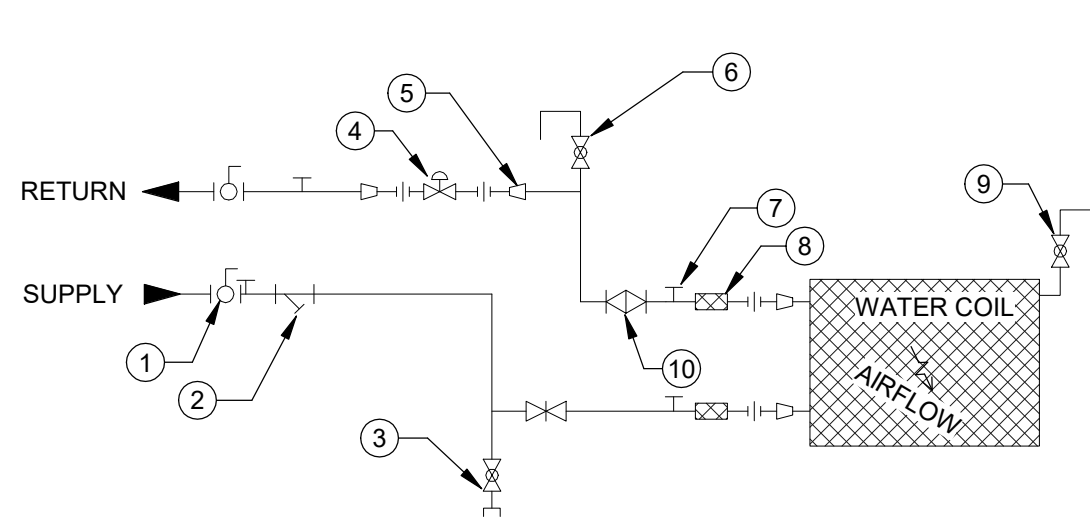
1. SHEET METAL DUCT.
2. SHEET METAL TEE WITH BRANCH STUB.
3. DAMPER AT END OF RUN ONLY.
4. BRANCH TAKE-OFF.
5. DAMPER BLADE.
6. END BEARINGS: FOR DUCTS 12 INCH AND SMALLER, PROVIDE END BEARINGS, VENTLOK MODEL 637. FOR DUCTS 13 INCH AND LARGER, PROVIDE END BEARINGS, VENTLOK MODEL 607. ON MULTIPLE BLADE DAMPERS, PROVIDE OIL IMPREGNATED NYLON OR SINTERED BRONZE BEARINGS.
7. LOCKING, INDICATING QUADRANT REGULATORS ON SINGLE AND MULTI-BLADE DAMPERS, ON INSULATED DUCTS MOUNT QUADRANT REGULATORS ON STAND-OFF MOUNTING BRACKETS, BASES, OR ADAPTERS. (3/8" FOR DUCTS UP TO 18"Ø - 1/2" FOR DUCTS 19"Ø THRU 48"Ø) CONTROL ARM.
- 8.



NOTE:
A. WHERE DAMPER IS INACCESSIBLE PROVIDE YOUNG REGULATOR CABLE CONTROLS KIT AND CONCEALED CEILING REGULATOR WITH CUP AND COVER PLATE MODEL 270-301.

BRANCH DUCT DAMPER	NTS	6
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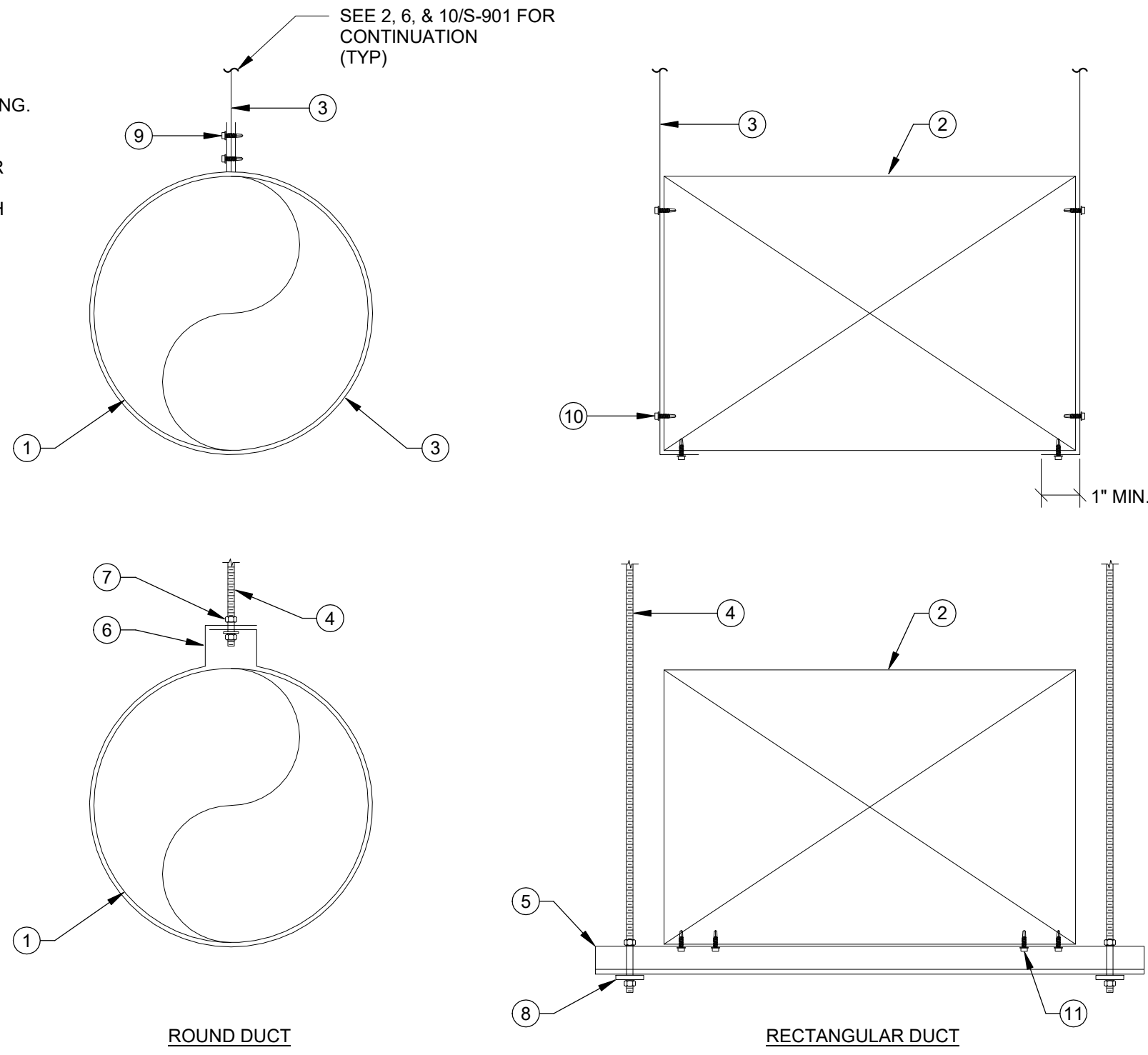
1. BV, TYP
2. STRAINER, TYP
3. DRAIN WITH HOSE ADAPTER
4. TCV
5. REDUCER, IF REQUIRED, TYP
6. MANUAL AIR VENT, TYP
7. PETE'S PLUG, TYP
8. FC, TYP
9. AIR VENT WHEN COIL IS NOT SELF VENTING
10. BALANCING VALVE. SEE MECHANICAL PIPING FLOOR PLANS FOR FLOW RATE, TYP.



- NOTES:
1. PIPING SHALL NOT BLOCK THE SWING OR USE OF ACCESS DOORS OR PANELS, NOR SHALL IT BLOCK THE SERVICING OF FILTERS, VALVES OR OTHER EQUIPMENT.
 2. VERIFY PIPING ARRANGEMENT WITH ACCEPTED TCV AND ACTUATOR PRIOR TO INSTALLATION. TCV SHALL BE NORMALLY OPEN WITH FLOW THRU THE COIL FOR HEATING APPLICATIONS. TCV SHALL BE NORMALLY CLOSED FOR COOLING APPLICATIONS, UNO.
 3. COILS SHALL BE PIPED COUNTER FLOW TO AIR FLOW. SUPPLY AT BOTTOM.
 4. UNIONS & BALL VALVES TO BE USED FOR PIPING 2" AND SMALLER. FLANGED CONNECTIONS AND BUTTERFLY VALVES TO BE USED FOR PIPING 2-1/2" AND GREATER (AS SHOWN).
 5. PIPING SHALL BE SUPPORTED INDEPENDENT OF COIL.
 6. THERMOMETERS AND FLEXIBLE CONNECTIONS NOT REQUIRED FOR TERMINAL UNIT REHEAT COILS.
 7. FOR PIPE SIZES, SEE FLOOR PLANS, FLOW DIAGRAMS OR UNIT SCHEDULES. NOTE: ACCEPTABLE TO USE BELL & GOSSETT CIRCUIT SENTRY MODEL AC2Y VALVE PIPING KIT IN LUE OF INDIVIDUAL COMPONENTS.

COIL PIPING DETAIL (2-WAY)	NTS	7
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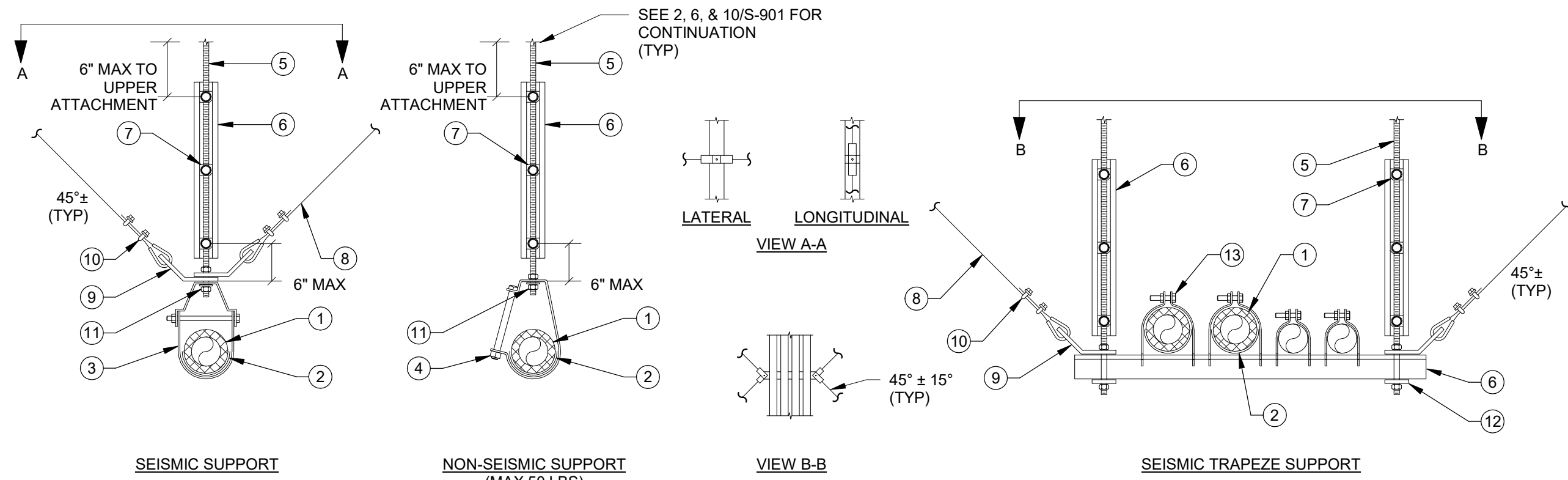
1. ROUND DUCT. SEE PLAN FOR SIZE AND ROUTING.
2. RECTANGULAR DUCT. SEE PLAN FOR SIZE AND ROUTING.
3. 1" x 20 GA. GALV. SHEET METAL STRAP.
4. 3/8"Ø THREADED ROD, B-LINE ATR OR EQUAL.
5. 1-5/8"x1-5/8"x12 GA UNISTRUT CHANNEL, B-LINE B22 OR EQUAL.
6. 1" x 20 GA GALV. SHEET METAL STRAP WITH 3"x2" HIGH FLANGE.
7. NUT AND WASHER, TOP AND BOTTOM.
8. NUT, TOP AND BOTTOM WITH UNISTRUT SQUARE WASHER, B-LINE MODEL B2012N OR EQUAL.
9. (2) #10 TEK SCREWS.
10. (3) #10 TEK SCREWS, EA SIDE.
11. (2) #10 TEK SCREWS, EA SIDE.



- NOTES:
1. HANGER SPACING TO BE AT MAXIMUM 8FT O.C. DUCTWORK WITH A CROSS-SECTIONAL AREA OF LESS THAN 6 SQUARE FEET AND WEIGHT OF 20 LB/FT OR LESS DO NOT REQUIRE SEISMIC BRACING PER CBC SECTION 1617A.1.25 AND ASCE 7, SECTION 13.6.6 (EXCEPTION 2).
 2. PROVISIONS SHALL BE MADE TO AVOID IMPACT WITH OTHER MECHANICAL COMPONENTS OR STRUCTURAL ELEMENTS PER DSA IR 16-13:
 - a. PER IR 16-13 3.5 AND DETAIL B-1.0 IN APPENDIX B, THE SEPARATION DISTANCE BETWEEN THE UNBRACED COMPONENT AND BRACED ELEMENTS OR COMPONENTS SHALL BE BASED ON A MINIMUM HORIZONTAL DISTANCE OF 12 INCHES. WHEN ADJACENT COMPONENTS ARE ALSO UNBRACED, THIS SEPARATION SHALL BE INCREASED TO A MINIMUM OF 18 INCHES.
 3. TRAPEZE BRACING EXEMPT PER IR 16-13-3.3.2
 - a. VERTICAL SUPPORT IS 3/8" DIAMETER.
 - b. ROOF HANGER DOES NOT EXCEED 12" LENGTH FROM THE DUCT SUPPORT POINT TO THE STRUCTURE ATTACHMENT POINT.
 - c. THE TOTAL WEIGHT AT ANY TRAPEZE IS LESS THAN 100 LBS AND LESS THAN 10 LBS PER FOOT.

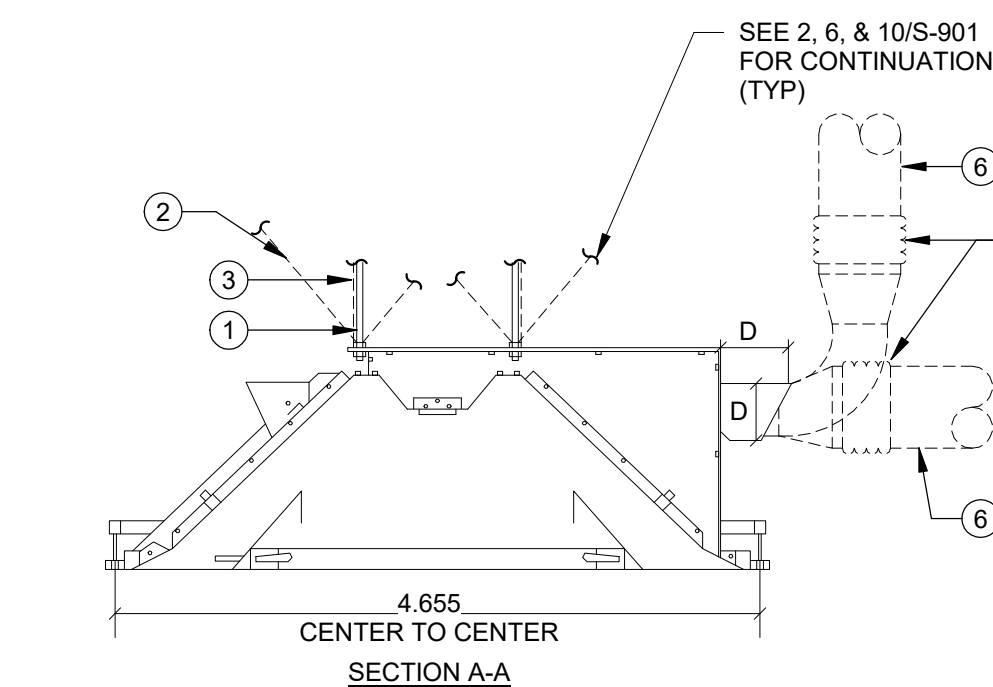
DUCT HANGERS (<6 SF & <=20 PLF)	NTS	1
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1. PIPE. SEE PLAN FOR SIZE AND ROUTING.
2. PIPE INSULATION WHERE APPLICABLE. SEE SPECIFICATIONS. PROVIDE INSULATION PROTECTION SADDLE, MIN. 12" LONG, B-LINE B3151 OR EQUAL. MAY BE SUBSTITUTED FOR PRE-INSULATED CALCIUM SILICATE SHIELD SUPPORT, B-LINE B338 OR EQUAL.
3. STANDARD CLEVIS PIPE HANGER, COATED OR PLATED TO ISOLATE HANGER FROM DISSIMILAR METAL PIPING, B-LINE B3100 OR EQUAL.
4. ADJUSTABLE "J" PIPE HANGER, COATED OR PLATED TO ISOLATE HANGER FROM DISSIMILAR METAL PIPING, B-LINE B3690 OR EQUAL.
5. 3/8"Ø THREADED ROD, B-LINE ATR OR EQUAL.
6. 1-5/8"x1-5/8"x12 GA UNISTRUT CHANNEL, B-LINE B22 OR EQUAL.
7. ROD STIFFENER, B-LINE TOLCO MODEL 988 OR EQUAL, MIN. 1", MAX 6" FROM TOP AND BOTTOM OF UNISTRUT AND MAX. 28" O.C., TORQUE TO 10 FT-LBS.
8. 3/32"Ø PRE-STRETCHED GALVANIZED AIRCRAFT CABLE, 7x19 STRAND CORE.
9. 2"x3"x1/4" X 1-5/8" WIDE GALVANIZED STEEL ANGLE, B-LINE MODEL B154 OR EQUAL.
10. CABLE THIMBLE AND CABLE CLIPS.
11. NUT AND WASHER, TOP AND BOTTOM.
12. NUT, TOP AND BOTTOM WITH UNISTRUT SQUARE WASHER, B-LINE MODEL B2012N OR EQUAL.
13. PIPE CLAMP, B-LINE SERIES B2000 OR EQUAL.



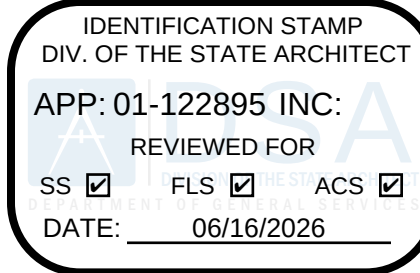
- NOTES:
1. HANGER SPACING TO BE PER SPECIFICATIONS ON M001. MAXIMUM SPACING MAY NOT EXCEED 2025 CPC TABLE 313.3.
 2. PROVIDE ROD STIFFENERS ONLY WHERE ROD LENGTH FROM SEISMIC BRACING TO UPPER ATTACHMENT EXCEEDS 18".

HHW/CHW PIPE HANGER DETAIL	NTS	2
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- NOTES:
1. FOUR 3/8"Ø THREADED RODS PER CHILLED BEAMS UP TO AND INCLUDING 5' IN LENGTH. SIX THREADED RODS PER CHILLED BEAMS GREATER THAN 5'.
 2. 3/32"Ø PRE-STRETCHED GALVANIZED AIRCRAFT CABLE, 7x19 STRAND CORE LATERAL CABLE BRACING A-1200 (2 PER BEAM).
 3. LONGITUDINAL CABLE BRACING (TYP 2 AT DIAGONALLY OPPOSITE CORNERS).
 4. OPTIONAL BRACE OUT OF BEAM SPACE A-1200 (2 PER BEAM).
 5. SEISMIC MOUNTING ANGLE PROVIDED BY BEAM MANUFACTURER.
 6. DUCT SIZE AS INDICATED ON LAYOUTS.
 7. FLEX DUCT.

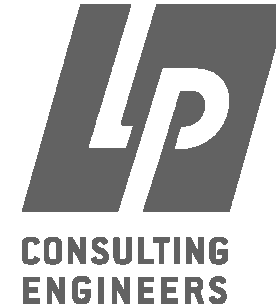
CHILLED BEAM SUPPORT DETAIL	NTS	3
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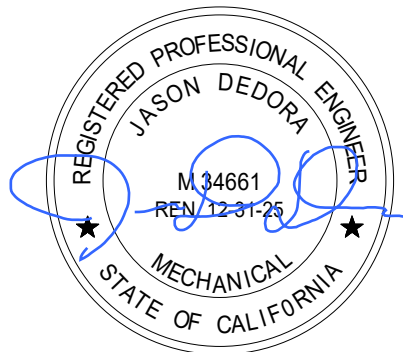


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Job #: 25-2030

SEAL



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DISTRICT
3000 CAMPUS HILL DRIVE LIVERMORE, CA 94551

ISSUED

MARK	DATE	DESCRIPTION
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MANAGEMENT

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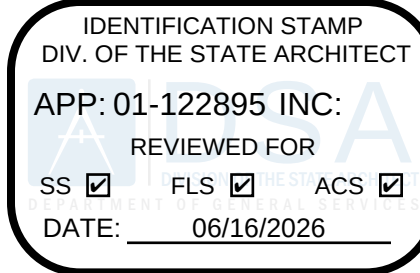
TITLE

MECHANICAL DETAILS

SHEET

M-801

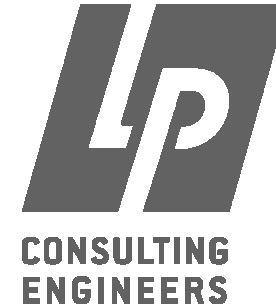
ELECTRICAL SYMBOL LEGEND			
ALL SYMBOLS SHOWN IN THIS LEGEND ARE NOT NECESSARY USED ON PLANS IF NOT REQUIRED			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
POWER		LIGHTING	
	MAIN SWITCHBOARD OR DISTRIBUTION PANEL, PAD OR FLOOR MOUNTED, AS NOTED		LED LUMINAIRE - T-BAR LAY-IN
	RECESSED MOUNTED LIGHTING OR DISTRIBUTION PANEL		LED LUMINAIRE - RECESSED IN GYPBOARD
	SURFACE MOUNTED LIGHTING OR DISTRIBUTION PANEL		LED LUMINAIRE - SURFACE
	RECESSED TERMINAL CABINET w/ 3/4" C PLYWOOD BACKBOARD, DUPLEX RECEPTACLE & #6 CU GND, UNO		LED LUMINAIRE - SUSPENDED
	SURFACE MOUNTED TERMINAL CABINET w/ 3/4" C PLYWOOD BACKBOARD, DUPLEX RECEPTACLE & #6 CU GND, UNO		LED LUMINAIRE - SURFACE OR SUSPENDED STRIP
	GROUND BUS BAR		LED LUMINAIRE - RECESSED DOWNLIGHT
	DISTRIBUTION TRANSFORMER, MOUNTING AND SIZE AS NOTED		LED LUMINAIRE - RECESSED WALL WASH
	NON-FUSED DISCONNECT SWITCH		LED LUMINAIRE - SURFACE
	ENCLOSED CIRCUIT BREAKER DISCONNECT SWITCH		LED LUMINAIRE - WALL
	FUSED DISCONNECT SWITCH; SIZE DISCONNECT AND FUSES PER UNIT LABEL		LED LUMINAIRE - PENDANT
	MOTOR STARTER/CONTROLLER		TRACK LIGHT - SUSPENDED OR SURFACE MOUNTED
	COMBINATION CIRCUIT BREAKER DISCONNECT/MOTOR STARTER		CONTINUOUS LINEAR LED TAPE OR LED COVE LIGHT
	POWER POINT OF CONNECTION		HATCHED LUMINAIRE INDICATES AN EMERGENCY LUMINAIRE CONNECTED TO A EMERGENCY POWER DISTRIBUTION SYSTEM, OR INTEGRAL EMERGENCY BATTERY BACK-UP
	DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO. SUBSCRIPT TEXT WHERE OCCURS. SEE RECEPTACLE SUBSCRIPT LEGEND BELOW.		SINGLE FACE EXIT SIGN. SEE LIGHTING FIXTURE SCHEDULE FOR SPECIFICATION. DIRECTIONAL ARROW AS INDICATED ON PLANS. (CEILING OR WALL)
	ISOLATED GROUND DUPLEX RECEPTACLE, 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO.		DOUBLE FACE EXIT SIGN. SEE LIGHTING FIXTURE SCHEDULE FOR SPECIFICATION. DIRECTIONAL ARROW AS INDICATED ON PLANS. (CEILING OR WALL)
	DEDICATED DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO		COMBINATION EMERGENCY EXIT SIGN WITH DUAL HEAD LIGHTS WITH EMERGENCY BATTERY BACK-UP
	GFCI DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO		BATTERY POWERED EMERGENCY EGRESS LUMINAIRE - SURFACE MOUNTED
	GFCI DUPLEX RECEPTACLE OUTLET MOUNTED ABOVE COUNTER TOP AND/OR SINK BACKSPLASH [1]		SPOT/FLOOD LUMINAIRE - CEILING
	ISOLATED GROUND GFCI DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO		SPOT/FLOOD LUMINAIRE - ABOVE GROUND
	DEDICATED GFCI DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO		EXTERIOR POLE FIXTURE - SINGLE HEAD
	FOURPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO.		EXTERIOR POLE FIXTURE - TWIN HEAD
	FOURPLEX RECEPTACLE OUTLET MOUNTED ABOVE COUNTER TOP [1]		EXTERIOR PATHWAY POST-TOP POLE FIXTURE
	ISOLATED GROUNDED DOUBLE DUPLEX RECEPTACLE 20A, 125V @ +16" TO BOTTOM OF BOX, UNO		BOLLARD FIXTURE
	DEDICATED DOUBLE DUPLEX RECEPTACLE 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO		STEP LUMINAIRE
	GFCI DOUBLE DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO		
	GFCI DOUBLE DUPLEX RECEPTACLE OUTLET MOUNTED ABOVE COUNTER TOP AND/OR SINK BACKSPLASH [1]		
	ISOLATED GROUND GFCI DOUBLE DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO		
	DEDICATED GFCI DOUBLE DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO		
	SPECIAL RECEPTACLE OUTLET, SIZE AND NEMA CONFIGURATION AS NOTED, MOUNTED @ +16" TO BOTTOM OF BOX, UNO		
	FLOOR MOUNTED DUPLEX RECEPTACLE, 20A, 125V FLUSH IN FINISHED FLOOR		
	CEILING MOUNTED DUPLEX RECEPTACLE, 20A, 125V		
	CEILING MOUNTED DOUBLE DUPLEX RECEPTACLE, 20A, 125V		
	FLOOR MOUNTED COMBINATION DUPLEX RECEPTACLE / TELECOM		
	FLOOR MOUNTED COMBINATION DOUBLE DUPLEX RECEPTACLE / TELECOM		
	FLOOR MOUNTED COMBINATION POWER AND TELECOM WITH WHIP FOR PARTITION FURNITURE		
	POWER / TELECOM WITH WHIP FOR PARTITION FURNITURE		
	WALL MOUNTED JUNCTION BOX - SIZE AS REQUIRED BY CODE		
	CEILING JUNCTION BOX - SIZE AS REQUIRED BY CODE		
	FLOOR MOUNTED JUNCTION BOX - SIZE AS REQUIRED BY CODE		
	PLUGMOLD		
	POWER POLE		
	CEILING EXHAUST FAN		
	ELECTRIC VEHICLE CHARGING STATION, DUAL PORT & SINGLE PORT		
	THERMAL OVERLOAD SWITCH		
	MOTOR RATED SWITCH		
RECEPTACLE SUBSCRIPT LEGEND (APPLIES TO ALL RECEPTACLES)		LIGHTING CONTROLS	
C	CONTROLLED/UNCONTROLLED [2]		SINGLE POLE TOGGLE SWITCH, 20A, 120-277V @ +46" TO TOP OF BOX, UNO [1]
LC	LOCKING COVER		THREE WAY TOGGLE SWITCH, 20A, 120-277V @ +46" TO TOP OF BOX, UNO [1]
TR	TAMPER-RESISTANT		SUBSCRIPTS "a b c" DESIGNATE THE QUANTITY OF SWITCHES AT EACH LOCATION (TYPICAL FOR ALL SWITCH TYPES) [1]
U	USB (UNIVERSAL SERIAL BUS)		SINGLE POLE KEYED BARREL SWITCH 20A, 120-277V @ +46" TO TOP OF BOX, UNO [1]
WP	WEATHERPROOF		WALL MOUNTED PUSH BUTTON @ +46" TO TOP OF BOX, UNO [1]
WPU	WEATHERPROOF WHILE IN USE		WALL MOUNTED DIMMER SWITCH @ +46" TO TOP OF BOX, UNO [1]
FOOTNOTES:			WALL MOUNTED COMBINATION OCCUPANCY SENSOR & DIMMER SWITCH, DUAL TECHNOLOGY, PASSIVE INFRA-RED OR ULTRASONIC, MOUNTED @ +46" TO TOP OF BOX, UNO [1]
[1]	PROVIDE 44" MAX. TO TOP OF BOX AT AREAS WITH FORWARD ACCESSIBLE APPROACH KNEE CLEARANCE, OR PROVIDE 46" MAX. TO TOP OF BOX AT AREAS WITH PARALLEL ACCESSIBLE APPROACH (PER CBC 11B-309).		DIGITAL WALL CONTROL OVERRIDE SWITCH. RUN CABLING BACK TO LIGHTING CONTROL PANEL. MOUNTED @ +46" TO TOP OF BOX, UNO [1]
[2]	FOR DUPLEX RECEPTACLES, ONE HALF IS CONTROLLED, AND ONE HALF IS UNCONTROLLED. PLACE CONTROLLED HALF AT BOTTOM. FOR DOUBLE DUPLEX RECEPTACLES, ONE DUPLEX IS CONTROLLED, AND ONE DUPLEX IS UNCONTROLLED. PLACE CONTROLLED DUPLEX AT RIGHT.		WALL MOUNTED OCCUPANCY SENSOR, DUAL TECHNOLOGY, PASSIVE INFRA-RED OR ULTRASONIC, MOUNTED @ +46" TO TOP OF BOX, UNO [1]
			WALL MOUNTED VACANCY SENSOR, DUAL TECHNOLOGY, PASSIVE INFRA-RED OR ULTRASONIC, MOUNTED @ +46" TO TOP OF BOX, UNO [1]
			CEILING, OR PENDANT, MOUNTED OCCUPANCY SENSOR, DUAL TECHNOLOGY, PASSIVE INFRA-RED OR ULTRASONIC
			CORNER MOUNT OCCUPANCY SENSOR, DUAL TECHNOLOGY, PASSIVE INFRA-RED OR ULTRASONIC
			PHOTOCONTROL DAYLIGHT SENSOR
		TAGS AND LEADERS	
		KEY NOTE	
		LIGHT FIXTURE TAG : FIXTURE TYPE XX CIRCUIT NUMBER	
		FEEDER DESIGNATION TAG PANEL NAME XX-Xx SWITCH LEG	
		KITCHEN EQUIPMENT DESIGNATION TAG	
		DETAIL DESIGNATION: TOP LETTER INDICATES: DETAIL NUMBER, BOTTOM LETTER / NUMBER INDICATES: SHEET NUMBER	
		MECHANICAL OR PLUMBING EQUIPMENT TAG	
		BRACKET	
		LEADERS	
ONE LINE DIAGRAM		CIRCUITS	
PANEL IDENTIFICATION		STUB	
CIRCUIT BREAKER		CONTINUATION	
CIRCUIT BREAKER WITH TRIP UNIT: AMPERE FRAME / AMPERE TRIP		CONDUIT RISER - UP	
FUSED SWITCH		CONDUIT DROP - DOWN	
GROUND-FAULT RELAY		CONDUIT CONCEALED IN CEILING OR WALL.	
GROUND		CONDUIT CONCEALED IN FLOOR OR UNDERGROUND	
UNDERGROUND TERMINATION SERVICE LUG		EXISTING CONDUIT TO REMAIN.	
UTILITY METER WITH CURRENT TRANSFORMER COMPARTMENT METER SOCKET		CONDUIT & CONDUCTORS FOR LOW VOLTAGE MOTION SENSORS	
CUSTOMER-OWNED MULTIFUNCTION METER WITH CURRENT TRANSFORMERS		EXISTING CONDUIT AND/OR CONDUCTORS TO BE REMOVED. UNDERGROUND CONDUIT MAY BE ABANDONED IN PLACE.	
MOTOR		HOMERUN TO PANELBOARD OR TERMINAL CABINET w/ CONDUCTORS AS NOTED	
TRANSFORMER WITH GROUND		CIRCUIT CONDUCTORS: LONG TICK INDICATES NEUTRAL CONDUCTOR, SHORT TICKS INDICATE PHASE CONDUCTORS; TICK MARK WITH A DOT ON THE END INDICATES EQUIPMENT GROUNDING CONDUCTOR. NUMBER BY TICKS INDICATES WIRE GAUGE OTHER THAN 12 AWG. CU. NO. TICKS INDICATES 2 #12 CU, 1 #12 CU GND. IN 1/2" CONDUIT. OTHERS AS NOTED ON PLAN. NOTE: PROVIDE A CODE SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS FOR THIS PROJECT, WHETHER SHOWN ON PLAN OR NOT.	
UFER GROUND		FLEXIBLE CONDUIT, 6'-0" LONG MAX. w/ #12 CU GROUND UNO.	
BOND TO COLD WATER PIPE, GAS PIPE, BUILDING STEEL			
AUTOMATIC TRANSFER SWITCH			
NEUTRAL LINK			
SURGE PROTECTIVE DEVICE			
SHUNT TRIP DEVICE			



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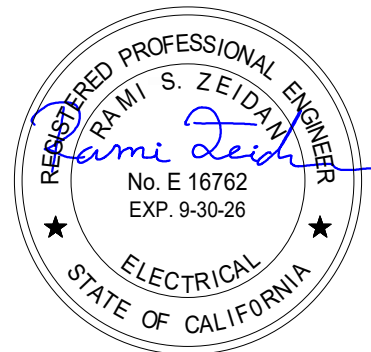


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SEAL



PROJECT

PATHWAYS SUPPORT CENTER
RENOVATION

3000 CAMPUS HILL DR
LIVERMORE, CA 94551

CLIENT

CHABOT-LAS POSITAS COMMUNITY COLLEGE
DISTRICT
3000 CAMPUS HILL DRIVE LIVERMORE, CA 94551

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TITLE

ELECTRICAL SYMBOL
LEGEND

SHEET

E-002

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1 ELECTRICAL SITE PLAN

SCALE: 1" = 100'-0"

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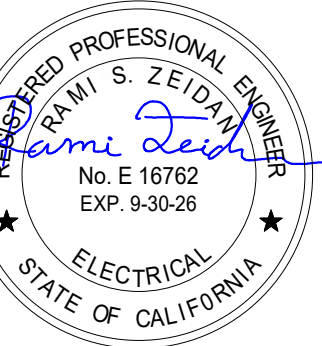


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PROJECT PATHWAYS SUPPORT CENTER RENOVATION

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LIVERMORE, CA 94551

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DISTRICT
3000 CAMPUS HILL DRIVE LIVERMORE, CA 94551

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TITLE

ELECTRICAL SITE PLAN

SHEET

E-100

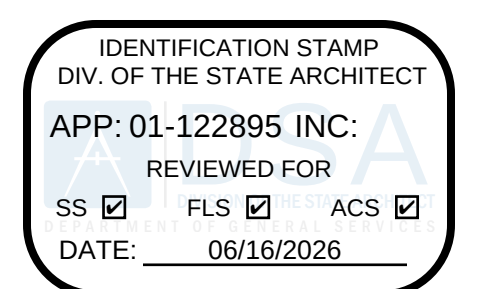
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KEY NOTES

1 ALL EXISTING ELECTRICAL PANELS LOCATED IN ELECTRICAL ROOM ARE EXISTING TO REMAIN.



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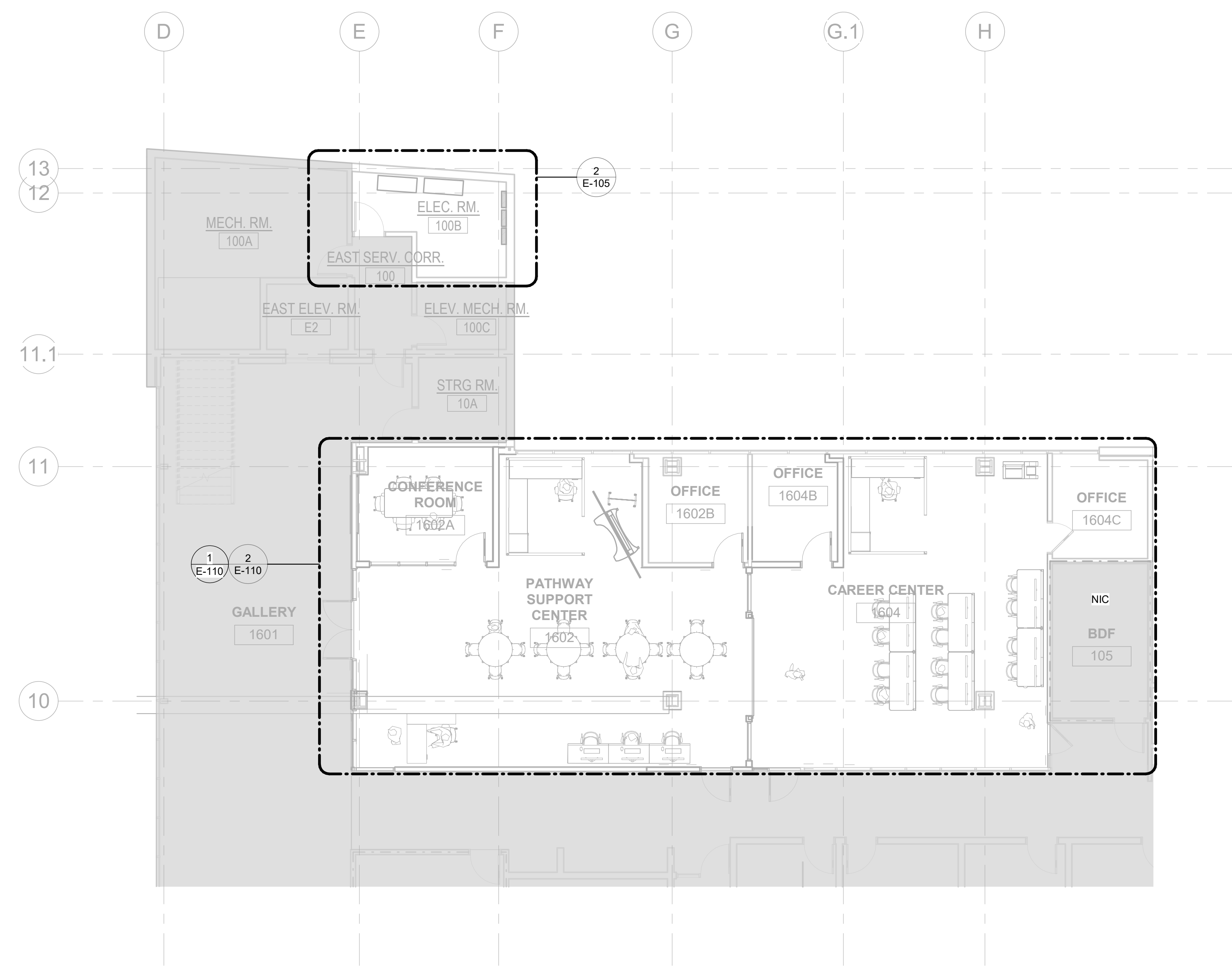
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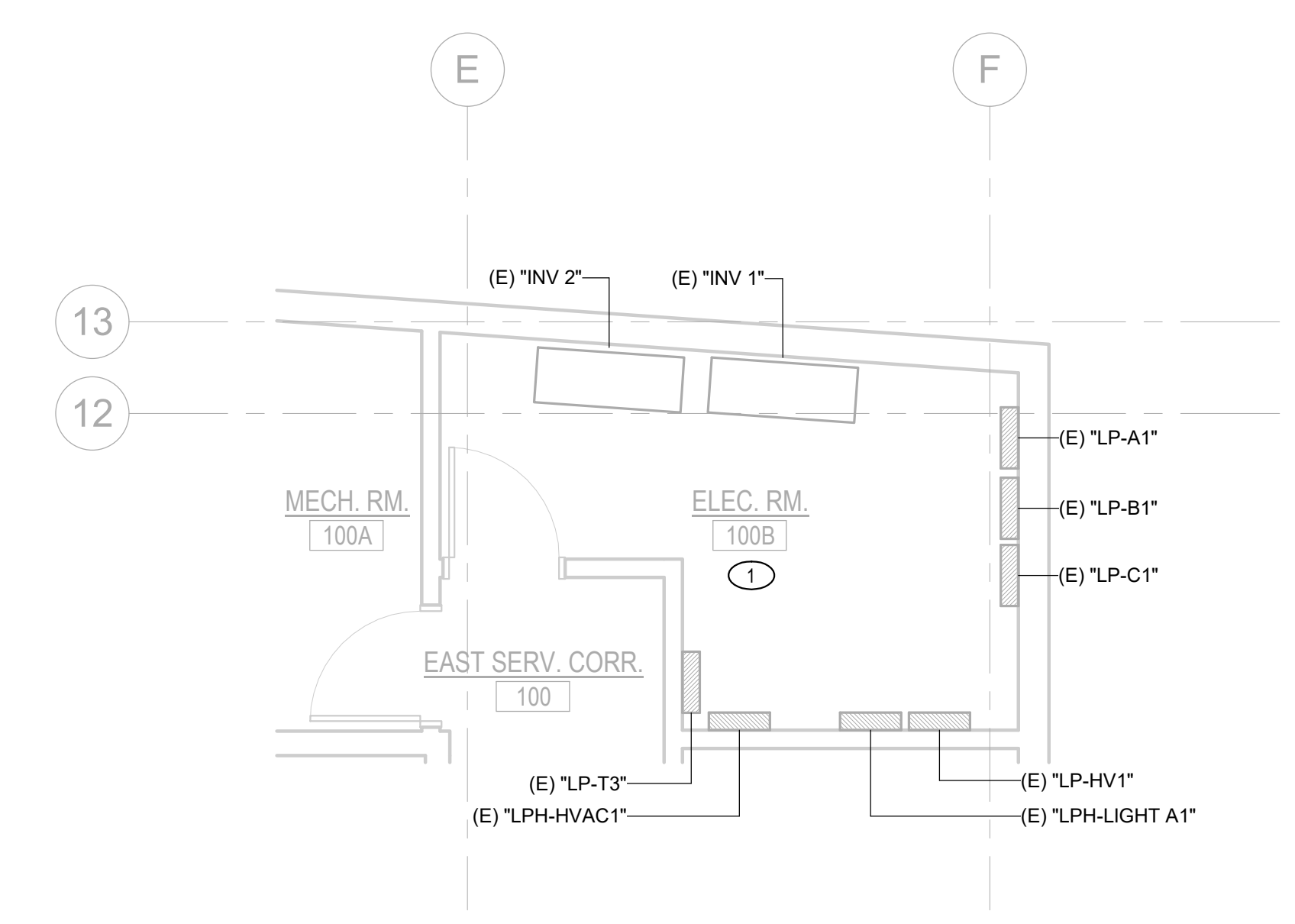
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1 ELECTRICAL FLOOR PLAN - PARTIAL EAST WING
SCALE: 1/8" = 1'-0"

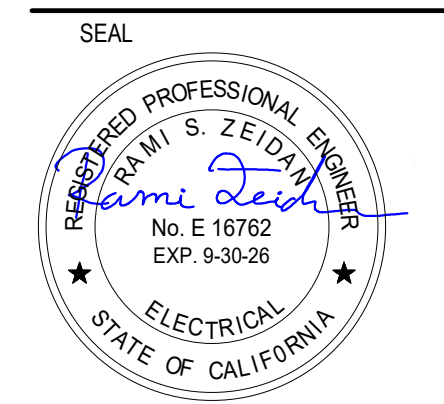
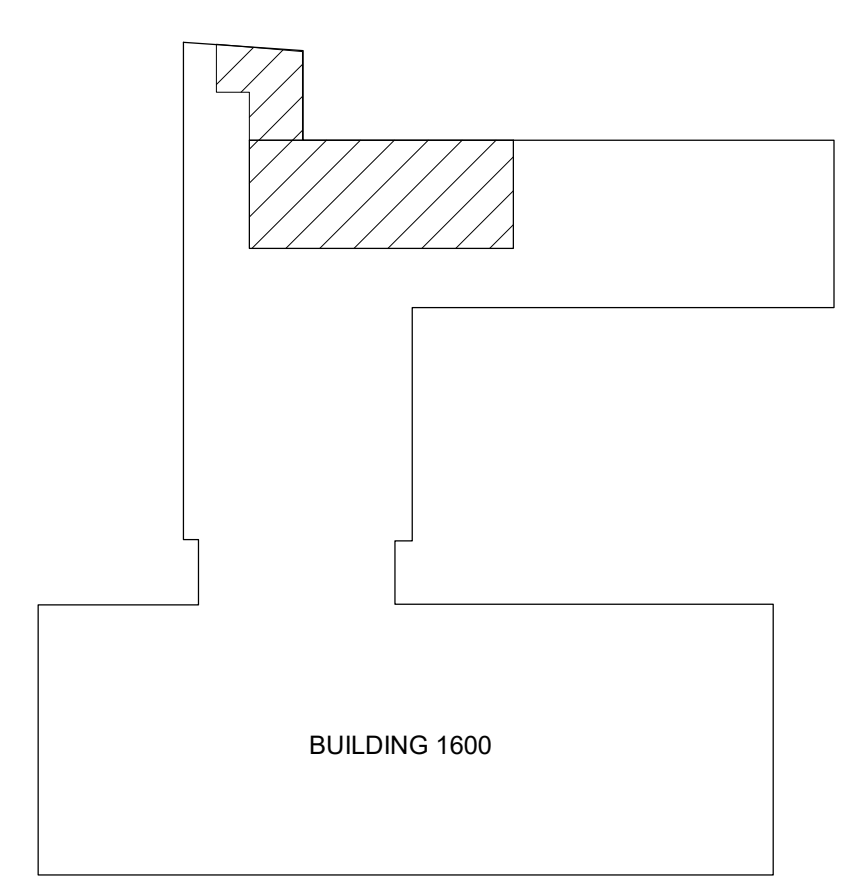


2 ELECTRICAL ENLARGED FLOOR PLAN - (E) ELECTRICAL ROOM 100B
SCALE: 1/4" = 1'-0"

GENERAL NOTES

- A. COORDINATE WITH ARCHITECTURAL DRAWINGS AND ALL OTHER DISCIPLINES FOR EXACT LOCATIONS OF JUNCTION BOXES, DISCONNECT SWITCHES, CONDUIT ENTRY AND POWER REQUIREMENTS OF THEIR EQUIPMENT.
- B. COORDINATE ALL ELECTRICAL PENETRATIONS GOING THROUGH STRUCTURAL WALLS WITH STRUCTURAL DRAWINGS, ARCHITECTURAL DRAWINGS AND OTHER PARTIES INVOLVED PRIOR TO INSTALLATION.
- C. FIRE SEAL ALL CONDUIT PENETRATIONS THROUGH FIRE-RATED WALLS AND FLOORS WITH AN APPROVED FIRE SEALANT AFTER CONDUIT INSTALLATION. SEAL SHALL PROVIDE EQUAL FIRE RATING AS ASSEMBLY PENETRATED.
- D. ALL ELECTRICAL EQUIPMENT WORKING SPACE SHALL COMPLY WITH CEC SECTIONS 110.34 AND 110.73.
- E. ALL 15 AND 20 AMPERE RECEPTACLES, 125 AND 250 VOLT RATED, LOCATED IN CLASSROOMS, CLASSROOM RESTROOMS, AND CLASS FUNCTION ROOMS, SHALL BE TAMPER-RESISTANT TYPE PER CEC SECTION 406.12.
- F. ELECTRICAL RECEPTACLES, SWITCHES AND WALL CONTROLS MOUNTING HEIGHTS SHALL MEET ACCESSIBILITY REQUIREMENT FOR UNOBSTRUCTED FORWARD REACH PER CBC 11B-308.
- G. ALL ELECTRICAL PANELS, INVERTERS, TRANSFORMERS, AND OTHER MAJOR EQUIPMENT LOCATED IN THE EXISTING ELECTRICAL ROOM IS EXISTING TO REMAIN.
- H. EXISTING PANEL SCHEDULES SHOWN ON SHEET E-602 WERE TAKEN FROM AS-BUILT DRAWINGS PROVIDED BY THE DISTRICT AND FROM PHOTOS FROM THE SITE VISIT. CONTRACTOR SHALL VERIFY CIRCUIT BREAKERS SHOWN AND NOTED AS EXISTING BREAKERS WITH EXISTING AND NEW LOADS, LOADS BEING REMOVED, AND UPDATE PANEL DIRECTORIES ACCORDINGLY.

KEY PLAN



PROJECT
**PATHWAYS SUPPORT CENTER
RENOVATION**

3000 CAMPUS HILL DR
LIVERMORE, CA 94551

CLIENT
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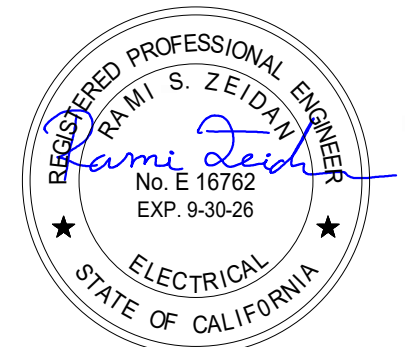
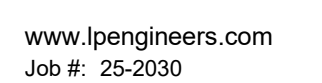
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TITLE
**ELECTRICAL FLOOR
PLAN - PARTIAL EAST
WING**

SHEET
E-105



- 1 CONTRACTOR TO INTERCEPT EXISTING CIRCUITS, THAT SERVE OUTLETS ON WALLS, VERIFY PANEL AND CIRCUIT, AND DISCONNECT DEVICES. REMOVE CONDUIT AND WIRES TO THE NEAREST JUNCTION BOX. CIRCUIT TO REMAIN FOR NEW WORK.
- 2 CONTRACTOR TO INTERCEPT EXISTING CIRCUITS, THAT SERVE OUTLETS ON CEILING OR ABOVE CEILING SPACE, VERIFY PANEL AND CIRCUIT, AND DISCONNECT DEVICES. REMOVE CONDUIT AND WIRES TO THE NEAREST JUNCTION BOX. CIRCUIT TO REMAIN FOR NEW WORK.
- 3 CONTRACTOR TO INTERCEPT EXISTING CIRCUITS, THAT SERVE OUTLETS ON THE GALLERY WALL, VERIFY PANEL AND CIRCUIT, AND DISCONNECT DEVICES. REMOVE CONDUIT AND WIRES TO THE NEAREST JUNCTION BOX. CIRCUIT TO REMAIN FOR NEW WORK.
- 4 OVERHEAD SCAFFOLD DOOR, PROVIDE 120V POWER.
- 5 SWITCH FOR OVERHEAD SCAFFOLD DOOR.
- 6 120V CEILING MOUNTED OUTLET FOR PROJECTOR TO REMAIN. REFER TO TECHNOLOGY DRAWINGS.
- 7 120V CEILING MOUNTED OUTLET FOR WAP TO REMAIN. REFER TO TECHNOLOGY DRAWINGS.
- 8 120V FOR RECESSED PROJECTOR SCREEN TO REMAIN. REFER TO TECHNOLOGY DRAWINGS.
- 9 120V FOR AV RACK EQUIPMENT. REFER TO TECHNOLOGY DRAWING FOR AV RACK LOCATION AND ELEVATION PRIOR TO ROUGH IN. EXTEND CONDUIT AND WIRES FROM EXISTING CIRCUIT AS REQUIRED.



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	02/19/2026	DSA SUBMITTAL
	06/02/2026	DSA BACKCHECK

- A. UNLESS OTHERWISE NOTED, ALL ELECTRICAL EQUIPMENT IS EXISTING TO REMAIN UNCHANGED.
- B. COORDINATE WITH ARCHITECTURAL DRAWINGS AND ALL OTHER DISCIPLINES FOR THE REMOVAL OF ELECTRICAL EQUIPMENT, WIRES, BOXES AND CONDUITS PRIOR TO DEMO.
- C. VERIFY EXISTING CONDITIONS IN FIELD PRIOR TO PERFORMING WORK, NOTIFY ARCHITECT AND ENGINEER OF ANY CONFLICTS OR DISCREPANCIES.
- D. ALL CIRCUIT BREAKERS THAT BECOME SPARE DUE TO THE DEMO OF ELECTRICAL EQUIPMENT AND WHICH ARE NOT GETTING REUSED FOR THE NEW EQUIPMENT, SHALL BE NOTED ON THE PANEL DIRECTORY AS SPARE AND THE BREAKERS SHALL BE SWITCHED TO THE OPEN POSITION.
- E. REFER TO ADDITIONAL DEMOLITION GENERAL NOTES ON ELECTRICAL COVER SHEET, AND SELECTIVE DEMOLITION FOR ELECTRICAL SPEC SECTION 26 05 05.
- F. EXISTING PANEL SCHEDULES SHOWN ON SHEET E-602 WERE TAKEN FROM AS-BUILT DRAWINGS PROVIDED BY THE DISTRICT AND FROM PHOTO FROM THE SITE VISIT. CONTRACTOR SHALL VERIFY CIRCUIT BREAKERS SHOWN AND NOTED AS EXISTING BREAKERS WITH EXISTING LOADS, LOG AND LOGGING REMOVED, AND UPDATE PANEL DIRECTORY ACCORDINGLY.

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E-110

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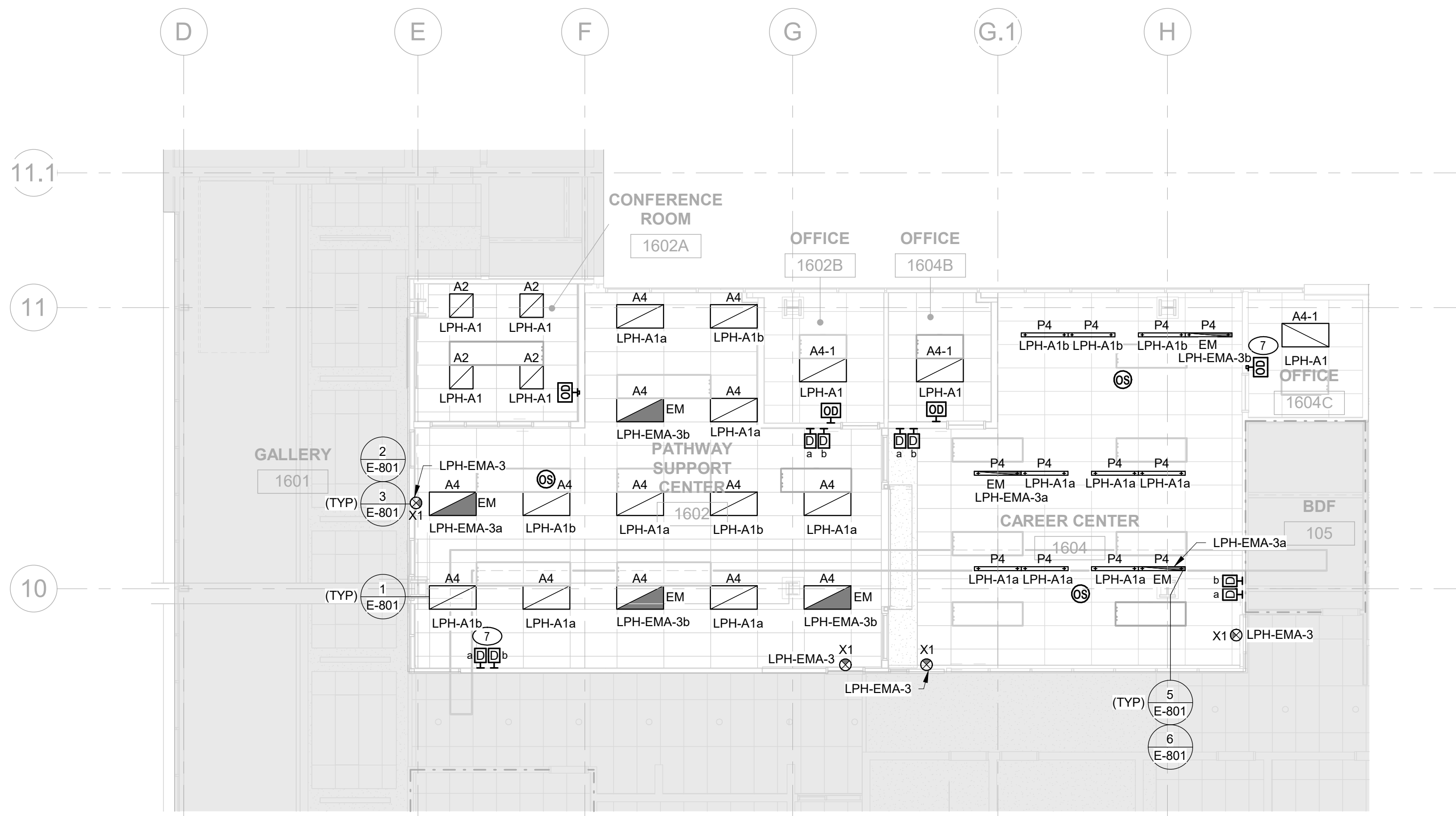
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C

B



1 ELECTRICAL DEMO REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"



2 ELECTRICAL REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

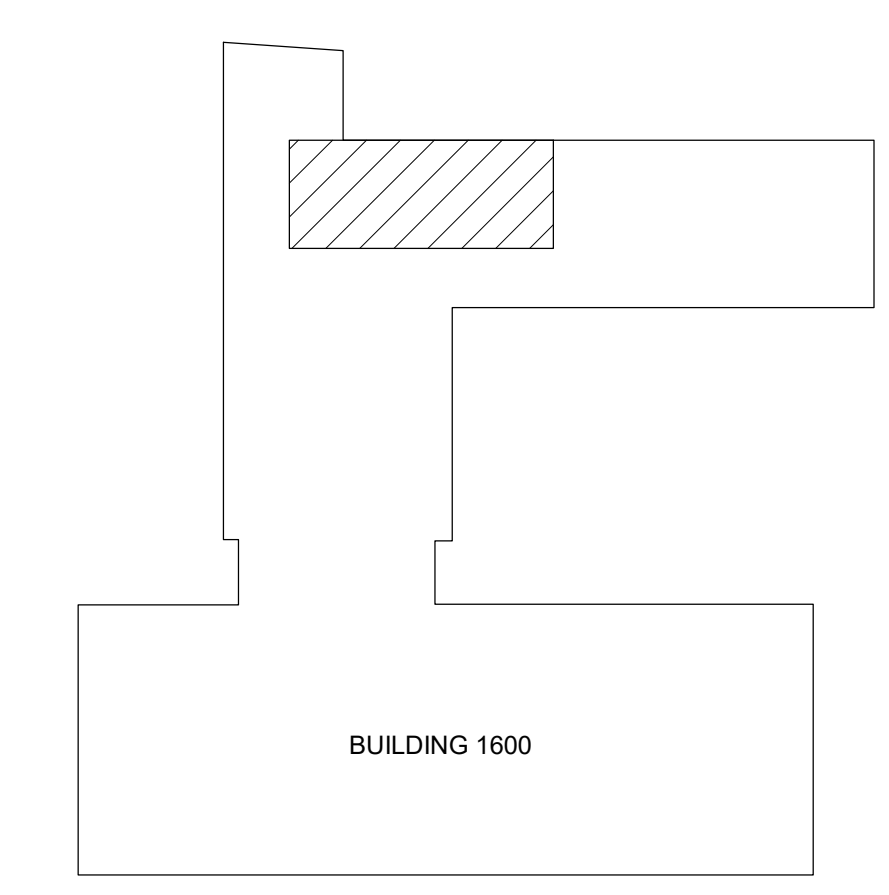
KEY NOTES

- CONTRACTOR TO INTERCEPT EXISTING CIRCUIT, THAT SERVE LIGHT FIXTURES BEING REMOVED, VERIFY PANEL AND CIRCUIT, AND DISCONNECT LIGHT FIXTURES. REMOVE CONDUIT AND WIRES TO THE NEAREST JUNCTION BOX. CIRCUIT TO REMAIN FOR NEW WORK.
- CONTRACTOR TO REMOVE EXISTING LIGHTING CONTROLS LOCATED AT THE CEILING.
- CONTRACTOR TO REMOVE EXISTING LIGHTING CONTROLS LOCATED AT CEILING AND AT THE WALL.
- CONTRACTOR TO INTERCEPT EXISTING CIRCUIT, THAT SERVE LIGHT FIXTURE BEING REMOVED, VERIFY PANEL AND CIRCUIT, AND DISCONNECT LIGHT FIXTURE. REMOVE CONDUIT AND WIRES TO THE NEAREST JUNCTION BOX. CIRCUIT TO REMAIN FOR NEW WORK.
- REMOVE LIGHTING CONTROL LOCATED ON THE WALL. WALL BACKBOX AND CONDUIT TO ABOVE CEILING SPACE TO REMAIN FOR NEW WORK.
- EXISTING LOW VOLTAGE CABLE TRAY IS EXISTING AND TO REMAIN. SEE TECHNOLOGY SHEET T-111.
- NEW LIGHTING CONTROL TO BE LOCATED ON THE WALL USING EXISTING WALL BACKBOX. RUN LIGHTING CONTROL WIRING VIA EXISTING CONDUIT TO ABOVE CEILING.

GENERAL NOTES

- UNLESS OTHERWISE NOTED, ALL LIGHTING FIXTURES ARE EXISTING TO REMAIN UNCHANGED.
- COORDINATE WITH ARCHITECTURAL DRAWINGS AND ALL OTHER DISCIPLINES FOR THE REMOVAL OF LIGHTING FIXTURES, WIRES, BOXES AND CONDUITS PRIOR TO DEMO.
- VERIFY EXISTING CONDITIONS IN FIELD PRIOR TO PERFORMING WORK. NOTIFY ARCHITECT AND ELECTRICAL ENGINEER OF ANY CONFLICTS OR DISCREPANCIES.
- ALL CIRCUIT BREAKERS THAT BECOME SPARE DUE TO THE DEMO OF LIGHTING FIXTURES AND WHICH ARE NOT GETTING REUSED FOR THE NEW FIXTURES, SHALL BE NOTED ON THE PANEL DIRECTORY AS SPARE AND THE BREAKERS SHALL BE SWITCHED TO THE OPEN POSITION.
- REFER TO ADDITIONAL DEMOLITION GENERAL NOTES ON ELECTRICAL COVER SHEET, AND SELECTIVE DEMOLITION FOR ELECTRICAL SPEC SECTION 26 05 05.
- EXISTING PANEL SCHEDULES SHOWN ON SHEET E-802 WERE TAKEN FROM AS-BUILT DRAWINGS PROVIDED BY THE DISTRICT AND FROM PHOTOS FROM THE SITE VISIT. CONTRACTOR SHALL VERIFY CIRCUIT BREAKERS SHOWN AND NOTED AS EXISTING BREAKERS WITH EXISTING AND NEW LOADS. LOADS BEING REMOVED, AND UPDATE PANEL DIRECTORIES ACCORDINGLY.

KEY PLAN



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SEAL
REGISTERED PROFESSIONAL ENGINEER
RAY S. ZEIDMAN
No. E 16782
EXP. 9-30-26
ELECTRICAL
STATE OF CALIFORNIA

PROJECT
**PATHWAYS SUPPORT CENTER
RENOVATION**

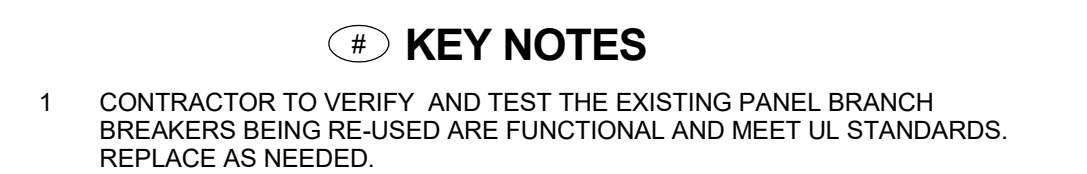
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TITLE
**ELECTRICAL
REFLECTED CEILING
PLAN & DEMOLITION
PLAN**

SHEET
E-111



1 CONTRACTOR TO VERIFY AND TEST THE EXISTING PANEL BRANCH BREAKERS BEING RE-USED ARE FUNCTIONAL AND MEET UL STANDARDS. REPLACE AS NEEDED.

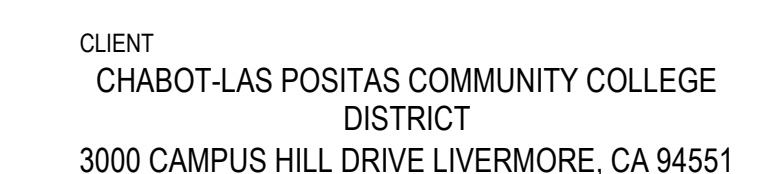
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A. UNLESS OTHERWISE NOTED, ALL FEEDER AND BRANCH CIRCUIT WIRES SHALL BE COPPER. REFER TO FEEDER SCHEDULE FOR ADDITIONAL NOTES.

B. ALL EXISTING ELECTRICAL EQUIPMENT SHOWN ON THE ONE-LINE DIAGRAM IS EXISTING TO REMAIN UNO.

C. ALL CONDUCTORS CONNECTED IN PARALLEL SHALL COMPLY WITH CEC 310.10 (H).

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Overall: $1/4 = 10\%$

SCALE: 1/4" = 1'-0"

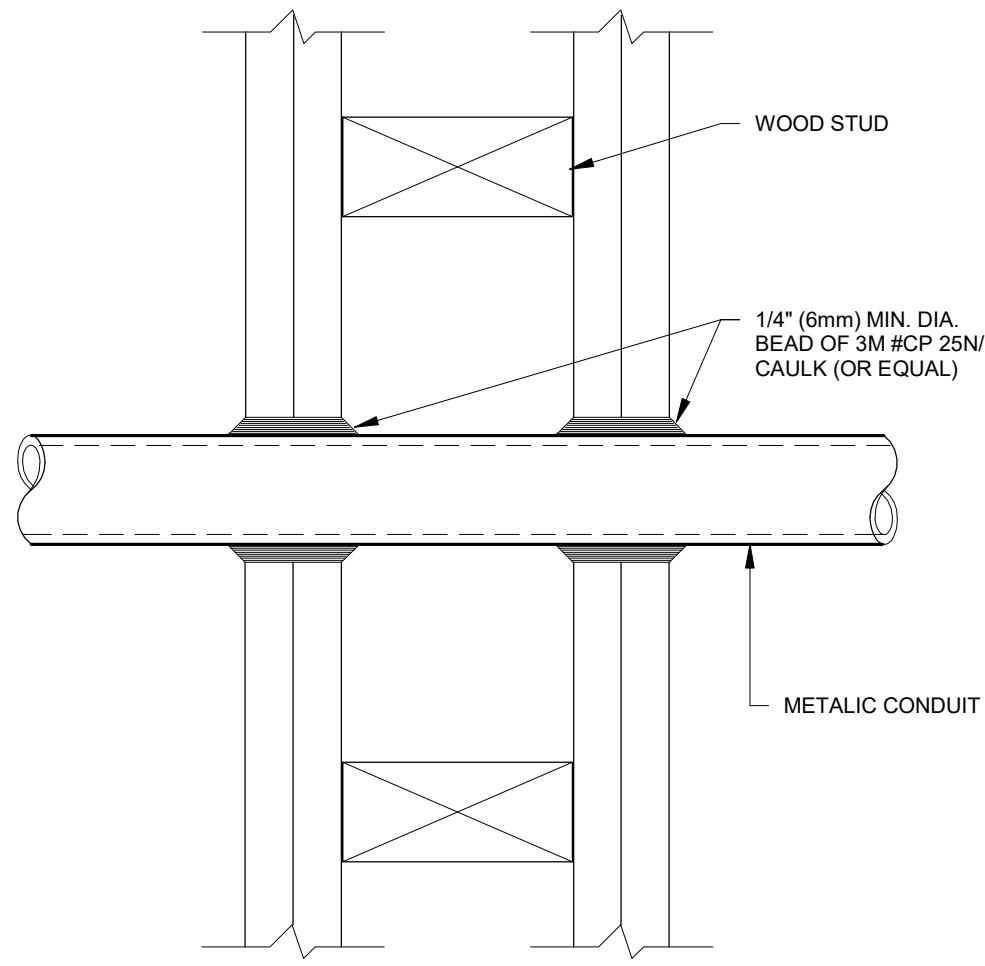
SHEET

E-601

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0 1/4" 1/2" 1"

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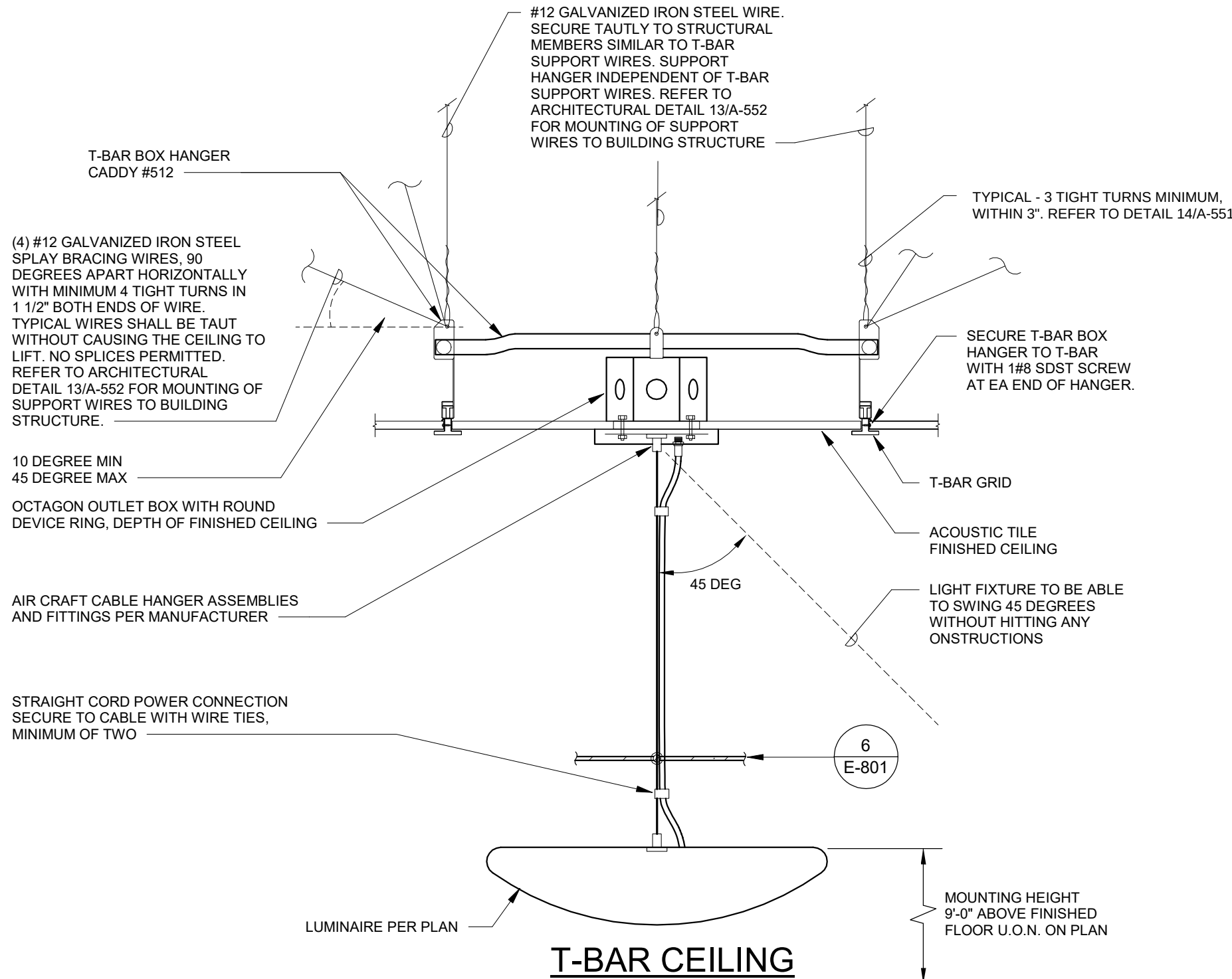
WOOD STUD WALL

NOTES:

1. THE CAULK IS TO BE FORCED INTO THE ANNULAR SPACE TO THE MAXIMUM EXTENT POSSIBLE FLUSH WITH THE EXTERIOR OF THE PENETRATION SURFACE.
2. FINISH CAULKING WITH A 1/4" (6mm) MINIMUM BEAD OF CP-25NS CAULK APPLIED TO THE PERIMETER OF THE CONDUIT PIPE AT ITS GRESS FROM THE WALL.
3. THE MAXIMUM ANNULAR SPACE IS NOT TO EXCEED 3/16" (5mm).
4. INSTALL 3M FIRESTOP ON BOTH SIDES OF THE WALL.
5. THESE RECOMMENDATIONS ARE BASED ON PRODUCT PERFORMANCE PER ASTM E-814 (UL 1479) FIRE TEST AND UL THROUGH-PENETRATION FIRESTOP SYSTEM #WL1001.

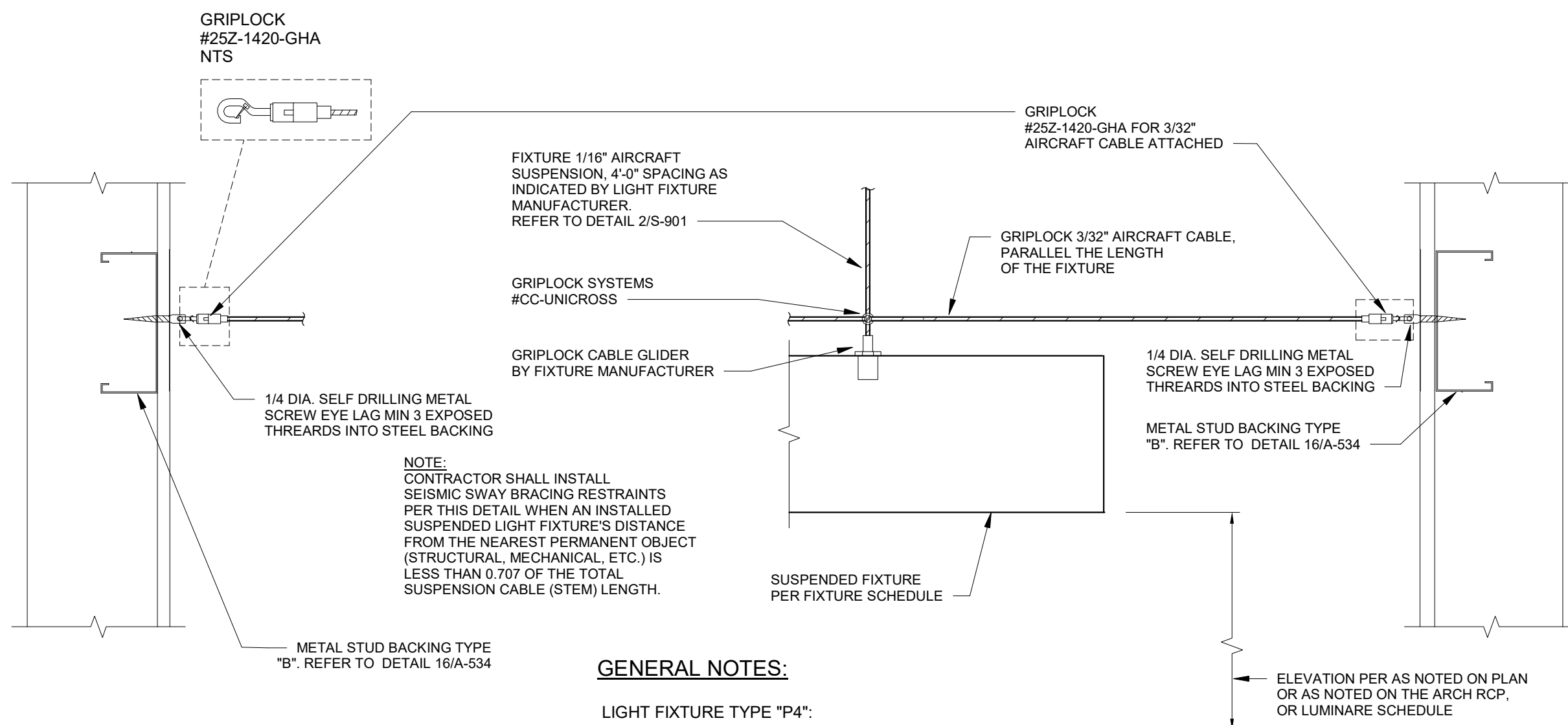
CONDUIT PENETRATION FIRESTOP DETAIL - WOOD FRAMING

NTS 4



CABLE SUSPENDED LUMINAIRE MOUNTING DETAIL - AT T-BAR CEILING

NTS 5



GENERAL NOTES:

LIGHT FIXTURE TYPE "F4":

- A. MAX WEIGHT: 24 LBS (3 LBS PER LF).
- B. DIMENSIONS: 4" W x 8" L x 4" H.

SEISMIC SWAY BRACING FOR CABLE SUSP LT FIXT METAL FRAMING

NTS 6

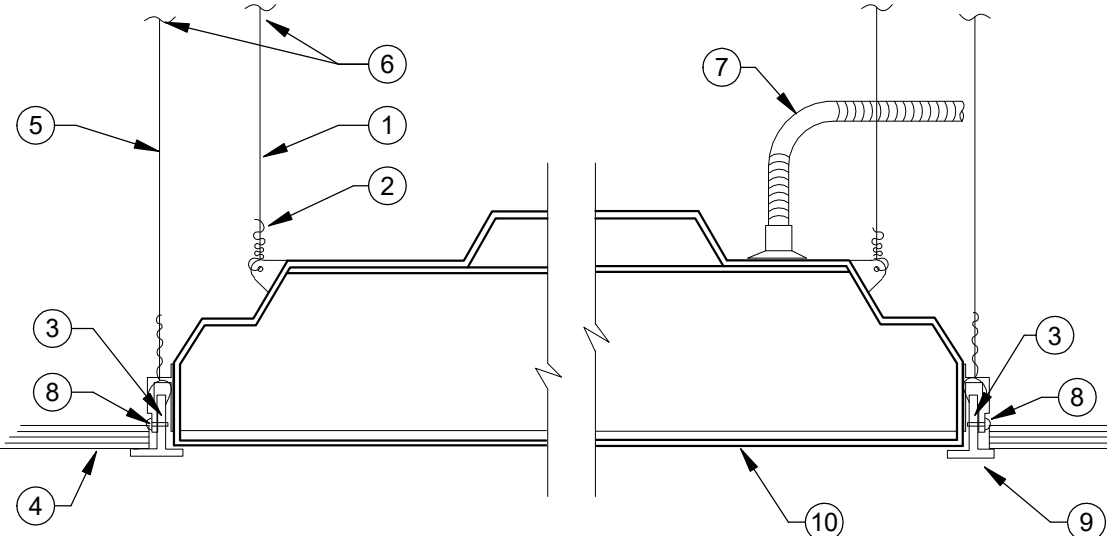
GENERAL NOTES:

- A. INSTALL LIGHT SUPPORTS IN ACCORDANCE WITH DSA REQUIREMENTS, AND INTERPRETATIONS OF REGULATIONS IR 25-2.
- B. SUPPORT T-BAR CEILING LAY-IN LIGHT FIXTURES IN ACCORDANCE WITH THE FOLLOWING TABLE.

TYPE OF CEILING	LIGHT FIXTURE SIZE	FIXTURE WEIGHT	WIRE HANGERS
HEAVY DUTY	2' X 4' OR LESS	< 56 LBS.	2 #12 GA. (SLACK)
HEAVY DUTY	4' X 4'	< 56 LBS.	4 #12 GA. (SLACK)
HEAVY DUTY	ALL	> 56 LBS.	4 #12 GA. (TAUT)

KEYED NOTES:

1. LIGHT FIXTURE SUPPORT WIRE. #12 GALVANIZED IRON STEEL WIRE. SECURE TO STRUCTURAL MEMBERS SIMILAR TO CEILING SUPPORT WIRES.
2. TYPICAL - 3 TIGHT TURNS MINIMUM. WITHIN 3". REFER TO DETAIL 14A-551.
3. CROSS 'T' BAR.
4. TYPICAL - ACOUSTICAL TILE.
5. CEILING SUPPORT WIRES PER ARCHITECTURAL DETAIL 14A-551.
6. SEE ARCHITECTURAL DETAIL 13A-552 FOR UPPER ATTACHMENT TO BUILDING STRUCTURE.
7. TYPICAL FLEX CONDUIT W/ ALL NECESSARY FITTINGS TO JUNCTION BOX. PROVIDE #12 GROUND WIRE AND BOND TO LIGHT FIXTURE.
8. LIGHT FIXTURE TO BE ATTACHMENT TO T-BAR. SECURE TO T-BAR WITH MIN 1/8 SDST SCREW EA SIDE OF FIXTURE.
9. MAIN 'T' RUNNER.
10. TYPICAL RECESSED FIXTURE. SEE SCHEDULES.

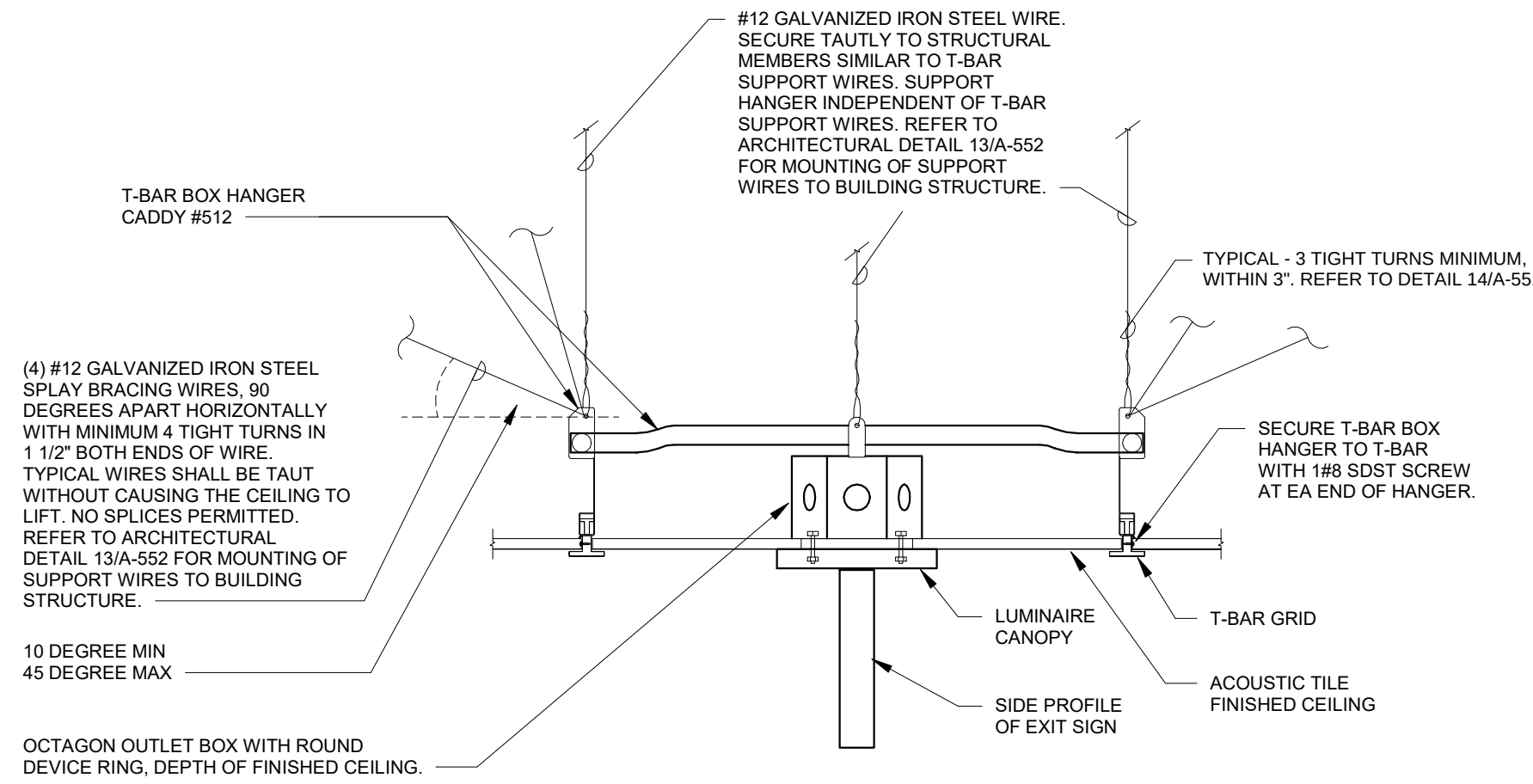


RECESSED TROFFER IN T-BAR CLG MOUNTING

NTS 1

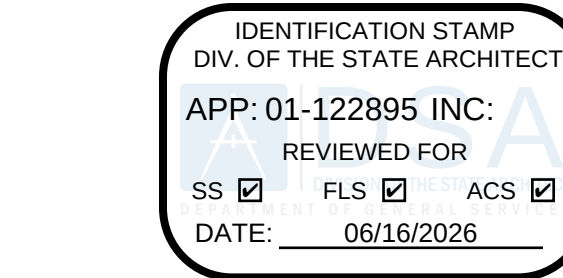
EXIT SIGN MOUNTING ELEVATION

NTS 2



CABLE SUSPENDED EXIT SIGN MOUNTING DETAIL

NTS 3



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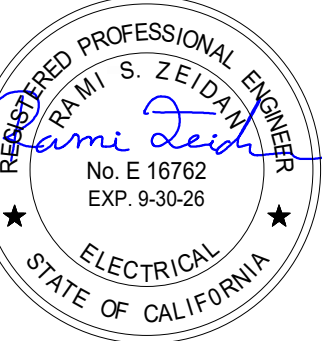


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RENOVATION

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TITLE

ELECTRICAL DETAILS

SHEET

E-801

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STATE OF CALIFORNIA
Indoor Lighting

CERTIFICATE OF COMPLIANCE
Project Name: Las Positas Bldg 1600 Renovation
Report Page: (Page 3 of 7)
Date Prepared: 2/17/2026

CALIFORNIA ENERGY COMMISSION
NRCC-LTI-E

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	Watts per luminaire	How is Wattage determined	Total Number of Luminaires	Excluded per §140.6(a)(3) / §170.2(e)(2)(C)	Design Watts	Field Inspector	Pass	Fail
A2	A2	No	NA	28	Mfr. Spec	4	No	112			
A4	A4	No	NA	27	Mfr. Spec	14	No	378			
A4-1	A4-1	No	NA	55	Mfr. Spec	3	No	165			
P4	P4	No	NA	28	Mfr. Spec	12	No	336			
Total Designed Watts: CONDITIONED SPACES								991			

*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)(4) / §170.2(e)(2)(D) 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.

*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
			Mandatory Demand Response §110.12(c)	Shut-off controls §130.1(c) / §160.5(b)(4)(C)	Field Inspector
			Required >= 4,000W subject to multilevel	Whole Building Auto Time Switch	Pass Fail

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STATE OF CALIFORNIA
Indoor Lighting

CERTIFICATE OF COMPLIANCE
Project Name: Las Positas Bldg 1600 Renovation
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CALIFORNIA ENERGY COMMISSION
NRCC-LTI-E

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

NRCC-LTI-E - Must be submitted for all buildings.

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

NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.

NRCA-LTI-03-A - Must be submitted for daylight responsive controls.

NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.

Systems/Spaces To Be Field Verified

Whole Building Time Switch;

Whole Building;

Whole Building Demand Response;

Generated Date/Time: Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2025 Nonresidential Compliance Report Version: 2025.0.000 Schema Version: rev 20250101 Compliance ID: EPR-4955-0226-0010 Report Generated: 2026-02-17 10:53:08

STATE OF CALIFORNIA
Mechanical Systems

CERTIFICATE OF COMPLIANCE
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CALIFORNIA ENERGY COMMISSION
NRCC-MCH-E

C. COMPLIANCE RESULTS																	
Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, or the table indicated as not compliant for guidance.																	
01		02		03		04		05		06		07		08		09	
System Summary §110.1, §110.2, §140.4, §170.2(c), §141.0(b), §180.2(b)(2)		AND Pumps §140.4(k), §170.2(c)(4)		AND Fans/Economizers §140.4(c), §140.4(e), §140.4(p), §170.2(c)		AND System Controls §110.2, §120.2, §140.4(i), §140.4(j), §170.2(c)		AND Ventilation §120.1, §160.2		AND Terminal Box Controls §120.1, §160.3, §141.0(b)(2)(D), §180.2(b)(2)(B)		AND Distribution §120.3, §140.4(i), §160.2, §160.3, §141.0(b)(2)(D), §180.2(b)(2)(B)		AND Cooling Towers §110.2(e)(2)		Compliance Results	
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)		COMPLIES	
AND		AND		AND		Yes		AND		AND		AND		AND		COMPLIES	
Mandatory Measures Compliance (See Table Q 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.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

This section does not apply to this project.

G. PUMPS

This section does not apply to this project.

Generated Date/Time: Documentation Software: EnergyPro

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STATE OF CALIFORNIA
Indoor Lighting

CERTIFICATE OF COMPLIANCE
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CALIFORNIA ENERGY COMMISSION
NRCC-LTI-E

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) / §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	
	D1	D2	D3	D4		D5	D6	D7		D8	
	Complete Building §140.6(c)(1)	Area Category §140.6(d)(2) / §170.2(e)(4)	Area Category Additional §140.6(d)(2) / §170.2(e)(4)(A) (+)	Total Allowed (Watts)		Total Designed (Watts)	Adjustments	Total Adjusted (Watts)		Includes Adjustments	05 must be ≥ 08 §140.6 / §170.2(e)
(See Table I)	(See Table J)	(See Table J)		(See Table F)	(See Table P)						
Conditioned	1,427.9	0	=	1,428	≥	991	0	=	991	COMPLIES	
Unconditioned			=		≥			=		COMPLIES	
Controls Compliance (See Table H for Details)										COMPLIES	
One-for-one Luminaire Alterations 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.

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STATE OF CALIFORNIA
Indoor Lighting

CERTIFICATE OF COMPLIANCE
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CALIFORNIA ENERGY COMMISSION
NRCC-LTI-E

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS							
(E) CB-11-16	Office (>250 square feet)	0.6	864	518.4	No	No	
(E) CB-17, 18	Office (<=250 square feet)	0.65	102	66.3	No	No	
TOTALS:			2,314	1,427.9	See Tables I, or P for detail		

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. ONE-FOR-ONE LUMINAIRE 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.

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STATE OF CALIFORNIA
Mechanical Systems

CERTIFICATE OF COMPLIANCE
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)(2) and §180.2(b)(2) for alterations.

Project Name: Las Positas Bldg 1600 Renovation
Project Address: 3000 Campus Hill Dr
Report Page: (Page 1 of 7)
Date Prepared: 2/17/2026

CALIFORNIA ENERGY COMMISSION
NRCC-MCH-E

A. GENERAL INFORMATION			
01 Project Location (city)	Livermore	04 Total Conditioned Floor Area	2314
02 Climate Zone	12	05 Total Unconditioned Floor Area	0
03 Occupancy Types Within Project:		06 # of Stories (Habitable Above Grade)	1
• Office • All Other Occupancies			

B. PROJECT SCOPE			
This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, §170.2(b) or §141.0(b)(2) and §180.2(b)(2) for alterations.			
01	02	03	
Air System(s)	Wet System Components	Dry System Components	
☐ Heating Air System	☐ Water Economizer	☐ Air Economizer	
☐ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat	
☒ Ventilation (including DOAS, ERV, HRV systems)	☐ System Piping	☐ Fan Systems	
	☐ Cooling Towers	☐ Ductwork (existing to remain, altered or new)	
☒ Mechanical Controls (existing to remain, altered or new)	☐ Chillers		
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes	

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STATE OF CALIFORNIA
Indoor Lighting

CERTIFICATE OF COMPLIANCE
This document is used to demonstrate compliance with requirements in §110.5, §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: Las Positas Bldg 1600 Renovation
Project Address: 3000 Campus Hill Dr
Report Page: (Page 1 of 7)
Date Prepared: 2/17/2026

CALIFORNIA ENERGY COMMISSION
NRCC-LTI-E

A. GENERAL INFORMATION			
01 Project Location (city)	Livermore	04 Total Conditioned Floor Area (ft²)	2,314
02 Climate Zone	12	05 Total Unconditioned Floor Area (ft²)	0
03 Occupancy Types Within Project (select all that apply):		06 # of Stories (Habitable Above Grade)	1
• Office • 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	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method Area (ft²)
☐ New Lighting System			
☐ New Lighting System - Parking Garage			
☒ Altered Lighting System	Area Category Method	2314	Area Category Method 0
Total Area of Work (ft²)		2314	0

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STATE OF CALIFORNIA
Indoor Lighting

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Project Name: Las Positas Bldg 1600 Renovation
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CALIFORNIA ENERGY COMMISSION
NRCC-LTI-E

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 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 in Daylighting §130.1(d) §160.5(b)4D	Secondary Daylighting §130.1(e) §160.5(b)4E	Interlocked Systems §140.6(a)(1) §170.2(e)(2) A	Field Inspector		Pass	Fail
Whole Building	All Other Space Types	Readily Accessible and located in the same space.	Dimmer	Building Level (Shut-off control requirements are met at the building level)	Included	Included	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(e) are being used.							
Conditioned Spaces							
01	02	03	04	05	06		
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment Area Category/PAF	PAF	
(E) CB-1	Convention, Conference, Multipurpose and Meeting Center	0.75	160	120	No	No	
(E) CB-8	Office (<=250 square feet)	0.65	97	63	No	No	
(E) CB-2-6,9,10	Office (>250 square feet)	0.6	980	588	No	No	
(E) CB-7	Office (<=250 square feet)	0.65	111	72.2	No	No	

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STATE OF CALIFORNIA
Indoor Lighting

CERTIFICATE OF COMPLIANCE
Project Name: Las Positas Bldg 1600 Renovation
Report Page: (Page 2 of 7)
Date Prepared: 2/17/2026

CALIFORNIA ENERGY COMMISSION
NRCC-LTI-E

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: AshtonTalarodi

Signature Date: 2026-02-17

Company: LP Consulting Engineers, Inc.

Address: 1209 Pleasant Grove Blvd

City/State/Zip: Roseville CA 95678

Phone: 916.771.0778

CEA/ATCC Certification Identification (if applicable): M40674

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 Person Name: Rami Zaidan

Responsible Person Signature: Rami Zaidan

Responsible Person Scope: Company: LP Consulting Engineers

Address: 1209 Pleasant Grove Blvd

City/State/Zip: Roseville CA 95678

Date Signed: 2026-02-17

Version: E16762

Phone: 916.771.0778

Generated Date/Time: Documentation Software: EnergyPro

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TITLE 24 COMPLIANCE SHEET INDEX	
SHEET NUMBER	SHEET NAME
T24-001	TITLE 24 COMPLIANCE
T24-002	TITLE 24 COMPLIANCE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122895 INC:
REVIEWED FOR:
SS ☒ FLS ☒ ACS ☒
DATE: 06/16/2026

LIONAKIS

1111 Broadway, Suite 200
Oakland, CA 94607
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CONSULTANT

MEP & FS / Sustainability / CxA

1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778

www.lpengi.com
Job #: 25-2030



PROJECT
PATHWAYS SUPPORT CENTER
RENOVATION

3000 CAMPUS HILL DR
LIVERMORE, CA

27/12/2025 11:33:36 AM Address: Doc: 025-2020 Las Positas College Bldg 1000025-2020 Las Positas College Bldg 1000 MEP-F&P-24-nt

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

0 1/4" 1/2"

1

2

3

4

5

A

B

C

STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Mechanical Systems

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

Project Name: Las Positas Bldg 1600 Renovation

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Date Prepared: 2/17/2026

J. VENTILATION AND INDOOR AIR QUALITY									
(E) CB-17, 18	Office space	102			15.3	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				402	18	Ventilation for this System Complies?		Yes

¹ FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system

² Air filtration requirements apply to the following three system types per §120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.

³ Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.

⁴ See Standards Tables 120.1-A and 120.1-B.

⁵ For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.

⁶ §120.2(e)3 requires systems serving rooms that are required by §130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,000 ft², classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by §130.1(c).

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK AND PIPING)

This section does not apply to this project.

M. COOLING TOWERS

This section does not apply to this project.

CA Building Energy Efficiency Standards - 2025 Nonresidential Compliance

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CALIFORNIA ENERGY COMMISSION

Mechanical Systems

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

Project Name: Las Positas Bldg 1600 Renovation

Report Page: (Page 4 of 7)

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J. VENTILATION AND INDOOR AIR QUALITY									
04		05			06		07		
System Name		(E) AHU		System Design OA CFM Airflow ¹		402	System Design Transfer Air CFM		0
08		09		10	11	12	13	14	15
Space Name or Item Tag		Occupancy Type ⁴		Conditioned Floor Area (ft ²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Required Min CFM	Provided per Design CFM
(E) CB-1		Conference/ meeting		160			79.2	0	0
(E) CB-8		Office space		97			14.6	0	0
(E) CB-2-6, 9, 10		Office space		980			147	0	0
(E) CB-7		Office space		111			16.6	0	0
(E) CB-11-16		Office space		864			129.6	0	0

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Mechanical Systems

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

Project Name: Las Positas Bldg 1600 Renovation

Report Page: (Page 7 of 7)

Date Prepared: 2/17/2026

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Ashton Tafariodi

Signature Date: 2026-02-17

Company: LP Consulting Engineers, Inc.

Address: 1209 Pleasant Grove Blvd

City/State/Zip: Roseville CA 95678

Phone: 916.771.0778

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 Person Name: Jason DeDora

Signature Date: 2026-02-17

Company: LP Consulting Engineers

Address: 1209 Pleasant Grove Blvd

City/State/Zip: Roseville CA 95678

Phone: 916.771.0778

CA Building Energy Efficiency Standards - 2025 Nonresidential Compliance

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CALIFORNIA ENERGY COMMISSION

Mechanical Systems

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NRCC-MCH-E

Project Name: Las Positas Bldg 1600 Renovation

Report Page: (Page 3 of 7)

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H. FAN SYSTEMS & AIR ECONOMIZERS

This section does not apply to this project.

I. SYSTEM CONTROLS										
This table is used to demonstrate compliance with mandatory controls in §110.2 and §120.2 and prescriptive controls in §140.4(f) and (n), §170.2(c)4D §170.2(c)4L or requirements in §141.0(b)2F §180.2(b)2 for altered space conditioning systems.										
01	02	03	04	05	06	07	08	09	10	11
System Name	System Zoning	Conditioned Floor Area Being Served (ft ²)	Thermostats §110.2(b) & (c), §120.2(a) §160.3(a)2A or §141.0(b)2E & §180.2(b)2	Shut-Off Controls §120.2(e) & §160.3(a)2D	Isolation Zone Controls §110.12 §120.2(b) & §160.3(a)2F	Demand Response §110.12 §120.2(b) & §160.3(a)2B	Supply Air Temp. Reset §140.4(f) & §170.2(c)4D	Window Interlocks per §140.4(n) & §170.2(c)4D	Direct Digital Control (DDC) per §120.2	Heat Pump Defrost per §160.3(b)7

¹ FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.

J. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in §120.1 § 120.2(e)3B § 140.4(p) and § 140.4(s) for all nonresidential and hotel/motel and d:124refnolink/160.2, §160.3(a)3D, §170.2(a)4N, 170.2(a)4O for high-rise residential occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflow may be shown on the plans or the calculations can be presented in a spreadsheet.

01 ☐ Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.

02 ☒ Check this box if the project included Nonresidential, Hotel/Motel Spaces or Multifamily Common Use Spaces

03 ☐ Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per §120.1(c)2.

Nonresidential and Hotel/ Motel Multifamily Common Use Ventilation Systems

CA Building Energy Efficiency Standards - 2025 Nonresidential Compliance

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STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Mechanical Systems

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

Project Name: Las Positas Bldg 1600 Renovation

Report Page: (Page 6 of 7)

Date Prepared: 2/17/2026

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-4

Form/Title

NRCC-MCH-E - Must be submitted for all buildings.

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01 Compliance with Mandatory Measures documented through MCH

02 Plan sheet or construction document location

Mandatory Measures Note Block

Yes

M-Sheets

CA Building Energy Efficiency Standards - 2025 Nonresidential Compliance

Generated Date/Time: Report Version: 2025.0.000 Schema Version: rev 20250101

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IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITECT

APP: 01-122895 INC:

REVIEWED FOR:

SS ☒ FLS ☒ ACS ☒

DATE: 06/16/2026

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Job #: 25-2030



PROJECT

PATHWAYS SUPPORT CENTER
RENOVATION

3000 CAMPUS HILL DR
LIVERMORE, CA 94551

CLIENT

CHABOT-LAS POSITAS COMMUNITY COLLEGE
DISTRICT
3000 CAMPUS HILL DRIVE LIVERMORE, CA 94551

ISSUED		
MARK	DATE	DESCRIPTION

MANAGEMENT

LIONAKIS PROJECT NO: 024003

CLIENT PROJECT NO: 100.00.007

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TITLE

TITLE 24 COMPLIANCE

SHEET

T24-002

0 1/4" = 1' IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT. SCALE ACCORDINGLY. A4600205 9.36.43 AM Autodesk Docs: 02/25/2020 Las Positas College Bldg 1600/025-2020_Las Positas College Bldg 1600_MEP-FA+FP_24.rvt

FIRE ALARM ABBREVIATIONS/SYMBOLS			
SYMBOL	DESCRIPTIONS	SYMBOL	DESCRIPTIONS
A	ABOVE CEILING	NDU	NETWORK DISPLAY UNIT
AFF	ABOVE FINISHED FLOOR	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
AHJ	AUTHORITY HAVING JURISDICTION	NIC	NOT IN CONTRACT
ALM	ALARM	NPU	NETWORK PROCESSING UNIT
ANN	ANNUNCIATOR	NTS	NOT TO SCALE
BMS	BUILDING MANAGEMENT SYSTEM	PAP	PRE-ACTION PANEL
C	CONDUIT	PIV	POST INDICATOR VALVE
CB	CALIFORNIA BUILDING CODE	PB	PULL BOX
CEC	CALIFORNIA ELECTRICAL CODE	(RC)	EXISTING TO REMOVE AND COVER
CFC	CALIFORNIA FIRE CODE	(RD)	EXISTING DEVICE TO BE RELOCATED
CM	CEILING MOUNTED	(RL)	RELOCATED DEVICE
CD	CANDELA RATING	(R)	REMOVE EXISTING & REPLACE WITH NEW
DET	DETECTOR	(RP)	RELOCATE IN PLACE
DGP	DATA GATHERING PANEL	SCC	STATUS COMMAND CENTER
(E)	EXISTING TO REMAIN	SLC	SIGNALING LINE CIRCUIT
EM	EMPTY CONDUIT	SMK	SMOKE
EC	EMERGENCY	SVUP	SUPERVISORY
EMT	ELECTRICAL METALLIC TUBING	TOS	TOP OF SHAFT
EOL	END OF LINE	TRBL	TROUBLE
EPO	EMERGENCY POWER OFF	TS	TAMPER SWITCH
EVAC	EVACUATION	TYP	TYPICAL
FAA	FIRE ALARM ANNUNCIATOR	UNO	UNLESS NOTED OTHERWISE
FACP	FIRE ALARM CONTROL PANEL	VCC	VOICE COMMAND CENTER
FAPS	REMOTE FIRE ALARM POWER SUPPLY	VT	VALVE TAMPER
FATC	FIRE ALARM TERMINAL CABINET	W	WATTAGE
FBO	FURNISHED BY OTHERS	WITH	WITH
FCC	FIRE COMMAND CENTER	W/O	WITHOUT
FSD	FIRE SMOKE DAMPER	WF	WATERFLOW
FTR	FIRE ALARM TRANSDUCER	WG	WIRE GUARD
GB	GROUND BOX	WP	WEATHERPROOF
H	HIGH HUMIDITY	(X)	REMOVE
HT	HEIGHT	XMR	TRANSFORMER
HVAC	HEATING VENTILATION & AIR CONDITIONING		
IMS	INFORMATION MANAGEMENT SYSTEM		
LOC	LOCAL OPERATOR CONSOLE		
MAX	MAXIMUM		
MIN	MINIMUM		
(N)	NEW		
N/A	NOT APPLICABLE		
NA	NOT AVAILABLE		
NAC	NOTIFICATION APPLIANCE CIRCUIT		

FIRE ALARM GENERAL DEMO NOTES	
1.	ALL EXISTING FIRE ALARM EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., WHERE SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DOCUMENTS AND LIMITED SITE SURVEY AND ARE SHOWN FOR CLARITY. IT SHALL BE REGARDED AS AN APPROXIMATION ONLY. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, PRIOR TO SUBMITTING BID AND BEFORE START OF ANY ELECTRICAL WORK, CONTRACTOR SHALL VERIFY ON-SITE ALL EXISTING LOCATIONS AND CONDITIONS TO ASCERTAIN ALL WORK REQUIRED.
2.	EXISTING FIRE ALARM SYSTEM SHALL REMAIN ACTIVE UNTIL CONSTRUCTION IS COMPLETED. CAUSE AS LITTLE INTERFERENCE OR INTERRUPTION OF EXISTING FIRE ALARM SYSTEMS AND/OR OTHER EXISTING FACILITY'S SYSTEMS AND SERVICES AS POSSIBLE. CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AT LEAST 72 HOURS TO SCHEDULE ALL NECESSARY SHUTDOWNS. SHUTDOWN WORK SHALL BE PERFORMED AFTER THE NORMAL OPERATION HOURS OF THE FACILITY, IF SO DIRECTED BY THE OWNER'S REPRESENTATIVE.
3.	FIRE WATCH IN CONFORMANCE WITH THE CALIFORNIA FIRE CODE SHALL BE PROVIDED AT THE DIRECTION OF THE CONTRACTOR FOR EVERY OFF-LINE BUILDING. THE BUILDING OWNER SHALL ASSIST WITH FIRE WATCH ACTIVITIES DURING BUILDING HOURS AND WHENEVER THE BUILDING IS OCCUPIED. THE CONTRACTOR SHALL PROVIDE ALL FIRE WATCH ACTIVITIES AFTER BUILDING HOURS AND WHENEVER THE BUILDING IS NOT OCCUPIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING AND MAINTAINING ALL FIRE WATCH LOGS.
4.	ALL REMOVED AND/OR DEMOLISHED ELECTRICAL MATERIALS AND EQUIPMENT TO BE ACCOMPLISHED UNDER THIS CONTRACT, WHICH IN THE OPINION OF THE OWNER'S REPRESENTATIVE ARE DEEMED SALVAGEABLE, SHALL REMAIN THE PROPERTY OF THE OWNER. ALL FIRE ALARM MATERIAL AND EQUIPMENT CONSIDERED NOT SALVAGEABLE SHALL BE REMOVED FROM THE SITE AND DISPOSED BY THE CONTRACTOR ACCORDINGLY.
5.	WHERE REMOVAL OF AN EXISTING SYSTEM'S DEVICE WILL RESULT IN LOSS OF CIRCUIT CONTINUITY, THE ISOLATED PORTIONS OF THE CIRCUIT SHALL BE RECONNECTED TO PROVIDE SERVICE TO ALL REMAINING DEVICES. IF SITE CONDITIONS MAKE RECONNECTION IMPOSSIBLE, CONNECTION SHALL BE MADE FROM AN ADJACENT AVAILABLE DEVICE AS NOTED AND/OR AS DIRECTED BY THE ARCHITECT AND/OR THE OWNER'S REPRESENTATIVE.
6.	WHEREVER EXISTING DEVICES, PANELS, CONDUITS, CABLES, ETC., CONFLICT WITH REMODEL WORK, WHETHER SHOWN OR NOT, RELOCATE THESE ITEMS AS DIRECTED BY THE ARCHITECT AND/OR OWNERS REPRESENTATIVE AND REPAIR ALL SURFACES.
7.	COORDINATE WITH OTHER TRADES AND PROMPTLY TRANSMIT ALL INFORMATION REQUIRED BY THEM. COORDINATE THE SEQUENCE OF DEMOLITION WITH OTHER TRADES TO ENSURE THAT ALL WORK PROCEEDS WITH A MINIMUM OF INTERFERENCE AND DELAY.
8.	WHERE EXISTING WIRING OR EQUIPMENT IS ABANDONED AS A RESULT OF THIS CONTRACT, IT SHALL BE REMOVED INsofar AS POSSIBLE. THIS INCLUDES BUT IS NOT LIMITED TO: a. REMOVE ALL WIRE AND CABLE. b. REMOVE ALL DEVICES AND EQUIPMENT. c. REMOVE ALL EXPOSED CONDUIT AND CONDUIT IN ACCESSIBLE CONCEALED AREA, AS FAR AS POSSIBLE. d. CUT OFF AND CAP ALL ABANDONED CONDUIT. STUBS SHALL NOT BE PROTRUDED ABOVE FLOOR AND/OR FINISHED WALLS AND CEILINGS.

FIRE ALARM GENERAL NOTES	
1.	THE INTENT OF THESE DRAWINGS AND/OR SPECIFICATIONS DESCRIBE A COMPLETE, FUNCTIONING FIRE ALARM SYSTEM (INCLUDING VOICE EVACUATION PER SB575) WITH DEVICES, WIRING AND FIRE ALARM CONTROL PANEL TO MEET THE REQUIREMENTS OF NFPA 72 AND 2025 CALIFORNIA FIRE CODE AND APPLICABLE LOCAL FIRE MARSHAL REGULATIONS AND REQUIREMENTS.
2.	LOCATIONS OF EXISTING EQUIPMENT AND DEVICES SHOWN ON THESE PLANS ARE BASED ON AVAILABLE AS-BUILT PLANS AND LIMITED SITE SURVEYS. CONTRACTOR SHALL THOROUGHLY INSPECT THE EXISTING SYSTEM AND SITE CONDITIONS BEFORE BID. ADVISE THE SCHOOL'S REPRESENTATIVE OF ALL CONDITIONS REQUIRING IMMEDIATE ATTENTION OR MIGHT CAUSE DIFFICULTIES THAT ARE NOT ADDRESSED, OR INFERRED TO, IN THE CONTRACT DRAWINGS AND SPECIFICATIONS PRIOR TO NEW CONSTRUCTION AND THE COMMENCEMENT OF THE GUARANTEE PERIOD.
3.	CONTRACTOR SHALL SUBMIT ANY ALTERATIONS OF THE APPROVED CONSTRUCTION DOCUMENTS TO THE SPECIAL INSPECTOR AND DSA FOR NEW APPROVALS. START INSTALLATION OF THE SYSTEM AFTER DETAILED PLANS, SPECIFICATIONS, NEW SHOP DRAWINGS AND SUBMITTALS HAS BEEN APPROVED BY DSA. CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR ANY DELAY.
4.	PER DSA IR F-2 SECTION 1, WHEN, AS PART OF AN ALTERATION OR MODERNIZATION PROJECT OR CONSTRUCTION OF NEW BUILDING A FIRE PROTECTION/LIFE SAFETY IS PLACED OUT OF SERVICE AND AFFECTS ANY OCCUPIED PORTION OF AN EXISTING BUILDING UNDERGOING RENOVATION OR OCCUPIED BUILDINGS OR PORTIONS OF THE CAMPUS, THEN THE SCHOOL DISTRICT, DSA, AND THE ARCHITECT/ENGINEER IN GENERAL RESPONSIBLE CHARGE OF THE CONSTRUCTION PROJECT SHALL BE NOTIFIED IMMEDIATELY BY THE PROJECT INSPECTOR. IT WILL BE THE SCHOOL DISTRICT'S RESPONSIBILITY TO ESTABLISH, INSTRUCT AND MAINTAIN FIRE WATCH PERSONNEL IN/AT THE AFFECTED BUILDING(S), WHERE A FIRE ALARM SYSTEM IS OUT OF SERVICE. WARNING SIGNS SHALL BE POSTED AT ALL ENTRANCES TO ANY BUILDING TO INFORM THE OCCUPANTS OF EXISTING BUILDINGS OR CONSTRUCTION OF NEW BUILDINGS THAT ARE NOT OCCUPIED BY THE PUBLIC, STAFF OR STUDENT DURING CONSTRUCTION, SHALL NOT REQUIRE A FIRE WATCH AS LONG AS THE CONSTRUCTION EFFORTS DO NOT AFFECT OTHER OCCUPIED AREAS OF THE BUILDING.
5.	REQUEST FOR ADDITIONAL COSTS ASSOCIATED WITH RE-USE OF ANY EXISTING SYSTEM COMPONENT, INCLUDING CONDUITS, BOXES, CONTROL PANELS, ETC., WILL NOT BE CONSIDERED.
6.	NO KNOWN EXISTING CEILING OR ATTIC SPACE IN ROOMS OR AREA WITH HARD CEILING. IF CEILING OR ATTIC SPACE OCCUR DURING FIELD CONSTRUCTION THAT REQUIRE ADDING DETECTORS ABOVE THE CEILING OR ATTIC SPACE, PROVIDE A CONSTRUCTION CHANGE DOCUMENT, OR A SEPARATE SHEET OF PLANS SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
7.	THE FIRE ALARM SYSTEM SHALL CONFORM TO THE 2025 CALIFORNIA FIRE CODE, ARTICLE 907, CBC SECTION 305 AND 2025 CALIFORNIA ELECTRICAL CODE, ARTICLE 760.
8.	FIRE ALARM SYSTEM SHALL TRANSMIT ALARM, SUPERVISORY AND TROUBLE SIGNAL TO AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH 2025 NFPA 72 AND CBC 907.6.6.
9.	CONTRACTOR SHALL PROVIDE A COMPLETE AND FUNCTIONAL CODE COMPLIANT SYSTEM WITH ALL REQUIRED HARDWARE, DEVICES, PROGRAMMING AND POINT-TO-POINT DESCRIPTION SCHEDULES.
10.	THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC 901.6.3.
11.	OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.
12.	INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY THE CALIFORNIA STATE FIRE MARSHAL, AND THE LOCAL FIRE MARSHAL.
13.	UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCY AND SPECIAL INSPECTOR. THE SCHOOL SHALL NOT BE IN OPERATION UNTIL THE IOR AND THE LOCAL FIRE MARSHAL HAS VERIFIED AND/OR SIGNED OFF ON OPERATIONAL CAPACITY OF THE FIRE ALARM SYSTEM.
14.	ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND/OR TESTING.
15.	CONTRACTOR SHALL SUBMIT THE SPECIAL INSPECTOR NFPA CERTIFICATE OF COMPLIANCE FORM TO THE SCHOOL REPRESENTATIVE FOR SUBMISSION TO THE FIRE DEPARTMENT.
16.	BEFORE REQUESTING FINAL APPROVAL OF THE INSTALLATION, THE SYSTEM INSTALLING CONTRACTOR SHALL FURNISH A FIRE ALARM SYSTEM INSPECTOR OF RECORD TO THE EFFECT THAT THE SYSTEM HAS BEEN INSTALLED AND COMPLETELY TESTED IN ACCORDANCE WITH 2025 NFPA 72, SECTION 7.5.2 AND 7.6.
17.	CONTRACTOR SHALL PROVIDE INTELLIGIBILITY TESTING USING INTELLIGIBILITY METERS APPROVED FOR SUCH USE, REFERENCE NFPA 72 CHAPTER 24, AN STI SCORE OF 7.0 IS A MINIMUM REQUIREMENT. CONTRACTOR SHALL IDENTIFY ALL EXISTINGLY DISTINGUISHABLE SPACES (ADS) ON CONTRACTOR SHOP DRAWINGS.
18.	THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
19.	PROVIDE FIRE ALARM AUDIBLE SOUND LEVEL AT LEAST 15 DBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL IN ALL OCCUPIED AREA, BUT NOT LESS THAN 10 DBA AT 10 FEET OR MORE THAN 120 DBA IN TOTAL, THROUGHOUT. SYNCHRONIZED TEMPORAL CODE 3 SOUND. (2025 NFPA 72, 16.4.2.1)
20.	WALL MOUNTED VISIBLE NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND THEIR TOPS AT 96" MAXIMUM FROM FINISHED FLOOR.
21.	WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 80" MINIMUM FROM FINISHED FLOOR AND NO CLOSER THAN 6" TO A HORIZONTAL STRUCTURE.
22.	A FLASHING VISUAL WARNING DEVICE HAVING A FREQUENCY OF NOT MORE THAN 60 FLASHES PER MINUTE (TWO (2) FLASHES OR LESS THAN ONE (1) FLASH PER SECOND) SHALL BE INSTALLED TO WARN THE HEARING-IMPAIRED AS SHOWN ON THE DRAWINGS. FLASHING VISUAL WARNING DEVICES VISIBLE WITHIN THE SAME INTERIOR SPACE SHALL BE SYNCHRONIZED. (2025 NFPA 72, 16.5.3.1, 16.5.3.6 AND 16.5.5.7)
23.	SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1' FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.
24.	LOCATE SMOKE AND HEAT DETECTORS AT LEAST ONE FOOT AWAY FROM FLUORESCENT LIGHT FIXTURES.
25.	CONTRACTOR SHALL AFFIX TO EACH FIELD DEVICE A DEVICE LABEL. DEVICE LABEL SHALL BE ARRANGED FOLLOWING DETAIL "FIRE ALARM CIRCUIT IDENTIFIERS". INITIATION DEVICES CONNECTED TO EQUIPMENT BY OTHERS SHALL HAVE A LABEL AFFIXED TO MODULE INDICATING THE EQUIPMENT CONNECTED.
26.	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 APPROVED LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE PROJECT SPECIFICATIONS WITHIN THE FIRE ALARM SECTION.
27.	UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER TIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATIONS.
28.	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. ALL BOXES TO BE SIZED PER CEC.
29.	ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT OR RACEWAY WHEN PASSING THROUGH A FLOOR OR WALL TO A HEIGHT OF 7 FEET ABOVE THE FLOOR. FIRE ALARM WIRING ABOVE CEILING SHALL BE SUPPORTED BY THE BUILDING STRUCTURE SO AS NOT TO DAMAGE THE CABLE.
30.	NO SPLICES SHALL BE ALLOWED FOR FIRE ALARM SYSTEM UNDERGROUND CABLES.
31.	NEW FIRE ALARM WIRING SHALL NOT BE INSTALLED IN ANY RACEWAY WITH WIRING IN EXCESS OF 24 VOLT.
32.	FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
33.	ALL FIRE ALARM EQUIPMENT BRANCH CIRCUITS SHALL BE DEDICATED AS PER 2025 NFPA 72, 10.6.5.1.2 AND ITS LOCATION BE CLEARLY LABELED AT THE FIRE ALARM CONTROL PANEL.
34.	ALL FIRE ALARM EQUIPMENT POWER SOURCE CIRCUITS SHALL BE IDENTIFIED AT THE POWER SOURCE PER 2025 NFPA 72, 10.6.5.2 USING A RED CLEARLY MARKED DISCONNECT WITH LOCK-ON CAPABILITY. COORDINATE WITH ELECTRICAL.
35.	MICROPHONES ASSOCIATED WITH EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS (EVAC) SHALL BE ACCESSIBLE FOR USE. INSTALLED IN COMPLIANCE WITH CBC SECTIONS 11B-305 AND 11B-308.
36.	WHERE ACCESSIBILITY IS NOT AVAILABLE TO THE NEW FIRE ALARM DEVICES LOCATED ABOVE THE CEILING/ATTIC SPACES, PROVIDE ACCESS PANELS TO THESE DEVICES. COORDINATE PRIOR TO THE EXECUTION OF WORK.
37.	THE CONTRACTOR SHALL PROVIDE AS-BUILT SHOP DRAWINGS INDICATING CIRCUITING OF ALL DETECTOR AS AND OTHER DEVICES IN ALL THE BUILDINGS OF THIS PROJECT. AS-BUILT DRAWINGS SHALL BE STORED IN FIRE ALARM DOCUMENT CABINET INSTALLED ADJACENT TO FIRE ALARM CONTROL PANEL OR LOCATION APPROVED BY AUTHORITY HAVING JURISDICTION.
38.	PROVIDE DOCUMENTATION CABINET TO BE INSTALLED PROXIMAL TO FACP (2025 NFPA 72, 7.7.2.1). ALL RECORD DOCUMENTATION SHALL BE STORED IN THE DOCUMENTATION CABINET (2025 NFPA 72, 7.7.2.3). THE DOCUMENTATION CABINET TO BE PROMINENTLY LABELED "SYSTEM RECORD DOCUMENTS" (2025 NFPA 72, 7.7.2.3).
39.	PERMANENTLY POST RESETTING PROCEDURE NEAR EACH FACP & ANNUNCIATOR PER NFPA 72, 23.8.2.9.3. A. TO RESET THE GAMEWELL FCI E3 SERIES FACP, RESOLVE THE ACTIVE ALARM, PRESS AND HOLD THE RESET BUTTON ON THE DISPLAY INTERFACE UNTIL THE SCREEN DISPLAYS "RESETTING". THE PANEL WILL INITIATE A 60-SECOND COUNTDOWN TO CLEAR ACTIVE ALARMS, MONITOR MODULES, AND AUXILIARY RELAYS BEFORE RETURNING TO NORMAL OPERATION.

EQUIPMENT ANCHORAGE NOTES	
APPLICABLE CODE: 2025 CBC	
MEP COMPONENT ANCHORAGE 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 2025 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-22 CHAPTERS 13, 26 AND 30.	
1.	ALL PERMANENT EQUIPMENT AND COMPONENTS.
2.	TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRE) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER, "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 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.
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 HAVE 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 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 ABOVE REQUIREMENTS.	
PIPING AND DUCTWORK DISTRIBUTION SYSTEM BRACING NOTES	
APPLICABLE CODE: 2025 CBC	
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE	
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7 SECTION 13.3 AS DEFINED IN ASCE 7 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2025 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. THE MEP DESIGN PROFESSIONAL ENGINEER RESPONSIBLE FOR CONTENT ON THESE SHEETS HAS VERIFIED THAT THE DESIGN METHODS IDENTIFIED BELOW ARE IN ACCORDANCE WITH DSA IR 16-13.	
MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E).	
☐ MP	☐ MD
☐ PP	☐ E
OPTION 1: PROJECT-SPECIFIC DESIGN.	
☐ ☐ ☐	OPTION 2: DESIGN BASED ON OSHDP OPM, WITHIN PROJECT SUBMITTAL.
☐ ☐ ☐	OPTION 3: DESIGN BASED ON OSHDP OPM, DEFERRED SUBMITTAL.

GOVERNING CODES & APPLICABLE STANDARDS	
TITLE 24 CODES:	
1.	2025 CALIFORNIA BUILDING STANDARD ADMINISTRATIVE CODE (CAC), (PART 1, TITLE 24, CCR).
2.	2025 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 AND 2 (PART 2, TITLE 24, CCR). (2024 EDITION INTERNATIONAL BUILDING CODE WITH 2025 CALIFORNIA AMENDMENTS.)
3.	2025 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR). (2023 EDITION NATIONAL ELECTRICAL CODE WITH 2025 CALIFORNIA AMENDMENTS).
4.	2025 CALIFORNIA MECHANICAL CODE (CMC), (PART 4, TITLE 24, CCR). (2024 EDITION IAPMO UNIFORM MECHANICAL CODE WITH 2025 CALIFORNIA AMENDMENTS).
5.	2025 CALIFORNIA PLUMBING CODE (CPC), (PART 5, TITLE 24, CCR). (2024 EDITION IAPMO UNIFORM PLUMBING CODE WITH 2025 CALIFORNIA AMENDMENTS).
6.	2025 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR). (2025 EDITION CALIFORNIA ENERGY COMMISSION BUILDING ENERGY EFFICIENCY STANDARDS).
7.	2025 CALIFORNIA FIRE CODE (CFC), (PART 9, TITLE 24, CCR). (2024 EDITION INTERNATIONAL FIRE CODE WITH 2025 CALIFORNIA AMENDMENTS).
8.	2025 CALIFORNIA REFERENCE CODE (PART 12, TITLE 24, CCR).
REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS:	
1.	2025 CBC, CHAPTER 35.
2.	2025 CFC, CHAPTER 80.
3.	2025 NFPA 72, AS AMENDED.

FIRE ALARM MONITORING NOTE	
AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AS AMENDED BY ARTICLE 91. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFx OR UUIS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVED STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY DISTRICT.	

SCOPE OF WORK AND BUILDING INFORMATION	
1. SCOPE OF THIS PROJECT IS TO REMOVE AND REPLACE EXISTING FIRE ALARM NOTIFICATION APPLIANCES AS PART OF THE RENOVATION OF FIRST FLOOR SPACE IN EXISTING BUILDING 1600. NEW FIRE ALARM NOTIFICATION APPLIANCES SHALL BE TIED INTO EXISTING SYSTEM AS PART OF A FULLY FUNCTIONING MANUAL AND AUTOMATIC VOICE EVACUATION FIRE ALARM SYSTEM.	
OCCUPANCY CLASSIFICATION: B	
TYPE OF CONSTRUCTION: II-B	
NUMBER OF STORIES: 2 STORIES	
SPRINKLER PROTECTION: YES	
ALTERNATIVE PROTECTION: NA	
TYPE OF SYSTEM: MANUAL, AUTOMATIC VOICE EVACUATION FIRE ALARM SYSTEM	

FIRE ALARM DEVICE LEGEND						
SYMBOL	QTY	IS EXISTING	MANUFACTURER	PART NO	DESCRIPTION	CSFM
[FACU]	2	EXISTING	GAMEWELL FCI	E3 SERIES FACP	E3 SERIES FIRE ALARM CONTROL PANEL W/ E388-BB, PM-9, IL-MB-E3, E3ID2-B, LCD-E3, ASM-16	7165-1703-0125 (EXISTING)
[NAC]	2	EXISTING	GAMEWELL FCI	HPF24S8	8-AMP, 24-VOLT POWER SUPPLY	7315-1637-0102 (EXISTING)
[NAC]	1	EXISTING	GAMEWELL FCI	HPF-P56	6.0 A, 120 VAC REMOTE CHARGER POWER SUPPLY IN A LOCKABLE METAL ENCLOSURE	7315-1637-0505 (EXISTING)
[AMP]	2	EXISTING	GAMEWELL FCI	E3 SERIES AMPLIFIER (100W, 25V)	E3 SERIES VOICE EVACUATION PANEL WITHINVOICE, 2X AM-50, ABS-40, PM-9, INX-TRANSPONDER	7165-1703-0125 (EXISTING)
[GAP]	1	EXISTING	GAMEWELL FCI	NGA	NETWORK GRAPHIC ANNUNCIATOR	7165-1703-0125 (EXISTING)
[F]	1	EXISTING	GAMEWELL FCI	MS-TAF	VELOCITI ADDRESSABLE DOUBLE ACTION STATION	7150-1703-0119 (EXISTING)
[S]	(E)	EXISTING	GAMEWELL FCI	ASD-PL2F WB210LP	DETECTOR, SMOKE, ADDRESSABLE PHOTO W/STANDARD BASE	7272-1703-0121 7300-1653-0109 (EXISTING)
[X]	(E)	EXISTING	EATON WHEELOCK	RSS-24MCW-FR	STROBE, 24 VDC, RED, SELECTABLE, TRANSMITTER	7125-0785-0141 (EXISTING)
[X]	(E)	EXISTING	EATON WHEELOCK	ET70-24MCW-FR	SPEAKERS/STROBE, WALL, 24 VDC, RED, SEL. CD	7125-0785-0152 (EXISTING)
[X]	3	NEW	EATON WHEELOCK	EL-STR	WALL STROBE, RED, FIRE	7135-0785-0504
[X]	3	NEW	EATON WHEELOCK	EL-SPSTR	WALL SPEAKER STROBE, RED, FIRE	7320-0785-0505
ADDITIONAL ASSEMBLY COMPONENTS AND HARDWARE						
[FACU]	1	EXISTING	GAMEWELL FCI	DACT-E3	DIGITAL ALARM COMMUNICATOR TRANSMITTER	7165-1703-0125
	2	EXISTING	GAMEWELL FCI	IL-MB-E3	INTELLIGENT LOOP INTERFACE-MAIN BOARD	7165-1703-0125
	1	EXISTING	GAMEWELL FCI	IL-S-E3	INTELLIGENT LOOP INTERFACE-EXPANSION BOARD	7165-1703-0125
	1	EXISTING	GAMEWELL FCI	LCD-E3	LCD KEYPAD DISPLAY	7165-1703-0125
	1	EXISTING	GAMEWELL FCI	PM-9	POWER SUPPLY CARD	7165-1703-0125
[FACU]	2	EXISTING	GAMEWELL FCI	RPT-E3-UTP	REPEATER MODULE-TWISTED-PAIR	7165-1703-0125
	1	EXISTING	GAMEWELL FCI	E388-BD/INCC	ENCLOSURE, COMMAND CENTER, BLACK, "D" SIZE	7165-1703-0125
	1	EXISTING	GAMEWELL FCI	E3ID2-D	ASSY, INNER DOOR, 2-BAY, "D" SIZE	7165-1703-0125
	1	EXISTING	GAMEWELL FCI	E3-INCC-PLATE	COMMAND CENTER MODULE MOUNTING PLATE, "D" SIZE	7165-1703-0125
	1	EXISTING	GAMEWELL FCI	IL-MB-E3	INTELLIGENT LOOP INTERFACE-MAIN BOARD	7165-1703-0125
[FACU]	1	EXISTING	GAMEWELL FCI	INI-VGC	COMMAND CENTER VOICE GATEWAY (UTP ONLY)	7165-1703-0125
	1	EXISTING	GAMEWELL FCI	LCD-E3	LCD KEYPAD DISPLAY	7165-1703-0125
	1	EXISTING	GAMEWELL FCI	PM-9	POWER SUPPLY CARD	7165-1703-0125
	1	EXISTING	GAMEWELL FCI	RPT-E3-UTP	REPEATER MODULE-TWISTED-PAIR	7165-1703-0125
	1	EXISTING	GAMEWELL FCI	E388-BD/INCC	ASSY, TRANSPONDER, BLACK, "C" SIZE	7165-1703-0125
[NAC]	1	EXISTING	GAMEWELL FCI	E3ID2-C	ASSY, INNER DOOR, COMMAND CENTER, 2-BAY, "C" SIZE	???
	1	EXISTING	GAMEWELL FCI	E3-INCC-PLATE	COMMAND CENTER MODULE MOUNTING PLATE, "C" SIZE	7165-1703-0125
	2	EXISTING	GAMEWELL FCI	HPF24S8 MAIN BOARD	FIRE ALARM POWER SUPPLY MAIN BOARD	7315-1637-0102
	1	EXISTING	GAMEWELL FCI	HPF-P56 MAIN BOARD	FIRE ALARM POWER SUPPLY MAIN BOARD	7315-1637-0505
	6	EXISTING	GAMEWELL FCI	AM-50-70	AM-50, 70.7VRMS AUDIO OUTPUT, 50 WATT, (MAX CURRENT)	7165-1703-0125
[AMP]	2	EXISTING	GAMEWELL FCI	IN-VGX	TRANSPONDER VOICE GATEWAY (UTP ONLY)	7165-1703-0125
	2	EXISTING	GAMEWELL FCI	PM-9	POWER SUPPLY CARD	7165-1703-0125
	2	EXISTING	GAMEWELL FCI	1100-0460	INX-TRANSPONDER 19" (CM) BACKBOX WITH DOOR, BLACK	7165-1703-0125

FIRE ALARM CABLE SCHEDULE						
TYPE	DESCRIPTION	JACKET COAT	SERVICES	ENVIRONMENT USE	NOTES	
A	2#16 UTP	FPLR, SOLID	RED/BLK	SLC INTELLIGENT LOOP	INTERIOR	
B	2#14 UTP	FPLR, SOLID	RED/BLK	NAC STROBE	INTERIOR	
C	2#16 STP	FPLR, SOLID	RED/BLK	VOICE (SPEAKER)	INTERIOR	
D	2#16 UTP	FPLR, SOLID	RED/BLK	IDC CIRCUIT	INTERIOR	
E	4#16 UTP	FPLR, SOLID	RED/BLK	FAA RS485 COMM	INTERIOR	
P	2#14 UTP	FPLR, SOLID	RED/BLK	24VDC POWER	INTERIOR	
S	4#16 UTP	FPLR, SOLID	RED/BLK	SEBUS	INTERIOR	
AU	2#16 UTP	WP#A0225	RED/BLK	SLC ADDRESS LOOP	EXTERIOR/UGND	DIRECT BURIAL CABLE
BU	2#14 UTP	WP#A0226	RED/BLK	NAC STROBE (VISUAL)	EXTERIOR/UGND	DIRECT BURIAL CABLE
CJ	2#14 UTP	WP#A0234	RED/BLK	NAC VOICE (VISUAL)	EXTERIOR/UGND	DIRECT BURIAL CABLE
DU	2#16 UTP	WP#A0225	RED/BLK	INITIATE DEVICE CIRCUIT	EXTERIOR/UGND	DIRECT BURIAL CABLE
EU	2#14 UTP	WP#A0225	RED/BLK	FAA RS485 COMM	EXTERIOR/UGND	DIRECT BURIAL CABLE
PU	2#14 UTP	WP#A0226	RED/BLK	24VDC POWER	EXTERIOR/UGND	DIRECT BURIAL CABLE
RU	2#16 UTP	WP#A0225	RED/BLK	SPEAKER RISK	EXTERIOR/UGND	DIRECT BURIAL CABLE
NOTES:						
1. ALL CONDUCTORS SHALL BE COPPER AND SOLID - STRANDED CONDUCTOR IS NOT ACCEPTABLE.						
2. MINIMUM CONDUIT SIZE IS 3/4" - CONCEALED IN CEILING SPACE OR APPROPRIATE WALLS.						
3. ALL SURFACE ROUTED RACEWAYS SHALL BE WIREMOLD OR APPROVED EQUAL.						
<u>CABLE ABBREVIATIONS:</u>						
STP	SHIELDED TWISTED PAIR		PA	PUBLIC ADDRESS		
SLC	SIGNAL LINE CIRCUIT		UTP	UNSHIELDED TWISTED PAIR		
NOTIFICATION	NOTIFICATION APPLIANCE CIRCUIT		WP	WEST PENN (CABLE MANUFACTURER)		
IDC	INITIATE DEVICE CIRCUIT					

IF THIS SHEET IS NOT 30"X42" IT IS A REDUCED PRINT - SCALE ACCORDINGLY

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RPS1 N1 LUMP SUM REPORT					
CURRENT SUMMARY			POWER SUMMARY		
MAX. CIRCUIT CURRENT (A):	3	STARTING CALC. VOLTAGE:	20.40		
TOTAL CIRCUIT CURRENT (A):	0.405	MAX. VOLTAGE DROP:	0.29		
SPARE CIRCUIT CURRENT (A):	2.61	VOLTAGE DROP %:	1.41 %		
MAX. CARD CURRENT (A):	n/a	MIN. OPERATIONAL VOLTAGE:	16		
TOTAL CARD CURRENT (A):	0.405	END OF LINE VOLTAGE:	20.11		
SPARE CARD CURRENT (A):	2.61	WIRE RESISTANCE (D/KFT):	3.07		
SPARE CARD CURRENT %:	86.50 %	TOTAL CIRCUIT LENGTH (FT):	117		
		TOTAL CIRCUIT RESISTANCE (Ω):	0.721		

CIRCUIT WIRING PROPERTIES: 14 AWG, 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
DISTANCE MEASURED USING DRAWN SEGMENT LENGTHS WITH 10.00 % ADDITIONAL LENGTH CALCULATED

SYMBOL	QUANTITY	PART NO	DESCRIPTION	CANDELAS	ALARM CURRENT (A)	TOTAL CURRENT (A)
	3	ET70-24MCW-FR	SPEAKER/STROBE, WALL, 24 VDC, RED, SEL CD	15CD	0.06	0.18
	1	ET70-24MCW-FR	SPEAKER/STROBE, WALL, 24 VDC, RED, SEL CD	75CD	0.165	0.165
	1	RSS-24MCW-FR	STROBE, 24 VDC, RED, SELECTABLE, 15CD	15CD	0.06	0.06

CALCULATION METHODS:
TOTAL RESISTANCE (Ω) = WIRE RESISTANCE (D/KFT) X 2 X TOTAL CIRCUIT LENGTH (FT)
TOTAL VOLTAGE DROP = TOTAL RESISTANCE (Ω) X TOTAL CIRCUIT CURRENT (A)

RPS1 N16 LUMP SUM REPORT					
CURRENT SUMMARY			POWER SUMMARY		
MAX. CIRCUIT CURRENT (A):	3	STARTING CALC. VOLTAGE:	20.40		
TOTAL CIRCUIT CURRENT (A):	0.388	MAX. VOLTAGE DROP:	0.640		
SPARE CIRCUIT CURRENT (A):	2.61	VOLTAGE DROP %:	3.13 %		
MAX. CARD CURRENT (A):	n/a	MIN. OPERATIONAL VOLTAGE:	16		
TOTAL CARD CURRENT (A):	0.388	END OF LINE VOLTAGE:	19.76		
SPARE CARD CURRENT (A):	2.61	WIRE RESISTANCE (D/KFT):	3.07		
SPARE CARD CURRENT %:	87.07 %	TOTAL CIRCUIT LENGTH (FT):	268		
		TOTAL CIRCUIT RESISTANCE (Ω):	1.65		

CIRCUIT WIRING PROPERTIES: 14 AWG, 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
DISTANCE MEASURED USING DRAWN SEGMENT LENGTHS WITH 10.00 % ADDITIONAL LENGTH CALCULATED

SYMBOL	QUANTITY	PART NO	DESCRIPTION	CANDELAS	ALARM CURRENT (A)	TOTAL CURRENT (A)
	1	ELSPSTR	WALL SPEAKER STROBE, RED, FIRE	15CD	0.022	0.022
	2	ELSPSTR	WALL SPEAKER STROBE, RED, FIRE	75CD	0.06	0.12
	3	ELSTR	WALL STROBE, RED, FIRE	15CD	0.022	0.066
	3	RSS-24MCW-FR	STROBE, 24 VDC, RED, SELECTABLE, 15CD	15CD	0.06	0.18

CALCULATION METHODS:
TOTAL RESISTANCE (Ω) = WIRE RESISTANCE (D/KFT) X 2 X TOTAL CIRCUIT LENGTH (FT)
TOTAL VOLTAGE DROP = TOTAL RESISTANCE (Ω) X TOTAL CIRCUIT CURRENT (A)

PANEL RPS3 (E) (HPF-P56) BATTERY CALCULATION (SECONDARY POWER SOURCE REQUIREMENTS)											
PANEL COMPONENTS						STANDBY CURRENT		SECONDARY ALARM CURRENT			
						CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)		
						0	0	0	0		
						0.139	0.139	0.157	0.157		
CIRCUIT	MAX CARD AMPS	USED CARD AMPS	SPARE CARD AMPS	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
RPS3-N16	N/A	0.388000			1	ELSPSTR	WALL SPEAKER STROBE, RED, FIRE 15CD	0	0	0.022	0.022
					2	ELSPSTR	WALL SPEAKER STROBE, RED, FIRE 75CD	0	0	0.06	0.12
					3	ELSTR	WALL STROBE, RED, FIRE 15CD	0	0	0.022	0.066
					3	RSS-24MCW-FR (E)	STROBE, 24 VDC, RED, SELECTABLE, 15CD	0	0	0.06	0.18
										TOTAL STANDBY (A)	0.139
						REQUIRED STANDBY TIME (HOURS)		24			
						REQUIRED ALARM TIME (MINUTES)		15			
SECONDARY STANDBY LOAD (A)						0.139	24	3.47			
SECONDARY ALARM LOAD (A)						0.5450	0.250	1.25	0.136		
STANDBY AND ALARM SUBTOTAL (AMP HOURS)								3.47			
DERATING FACTOR								1.25			
SECONDARY LOAD REQUIREMENTS (AMP HOURS)								4.34			
PROVIDE (2) 12V 7AH BATTERIES											
*BATTERY BOX SIZE CAPACITY NOT SPECIFIED. REFER TO MANUFACTURER DOCUMENTATION.											

PANEL DAP 1 (E) (E3 SERIES AMPLIFIER (100W, 25V)) BATTERY CALCULATION (SECONDARY POWER SOURCE REQUIREMENTS)											
PANEL COMPONENTS						STANDBY CURRENT		SECONDARY ALARM CURRENT			
	QTY	PART NO.	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)				
DAP 1-S1	1	E3 SERIES AMPLIFIER (100W, 25V)	E3 SERIES VOICE EVACUATION PANEL W/INI-VGX, 2X AM-S0, ABS-4D, PM-9, INX-TRANSPONDER	0	0	0	0				
	1	1100-0460	INX-TRANSPONDER 19" (CM) BACKBOX WITH DOOR, BLACK, AM-S0, 70 VRMS AUDIO OUTPUT, 50 WATT, (MAX CURRENT)	0.049	0.147	2.30	6.90				
	3	AM-S0-70	AM-S0, 70 VRMS AUDIO OUTPUT, 50 WATT, (MAX CURRENT)	0.15	0.15	0.15	0.15				
	1	INI-VGX	TRANSPONDER VOICE GATEWAY (UTP ONLY)	0.027	0.027	0.05	0.05				
	1	PM-9	POWER SUPPLY CARD								
CIRCUIT	MAX CARD AMPS	USED CARD AMPS	SPARE CARD AMPS	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
DAP 1-S1	N/A	0.000000		▼ 24	2	ET70-24MCW-FR (E)	SPEAKER/STROBE, WALL, 24 VDC, RED, SEL CD 0.5W	0	0	0	0
				▼ 24	2	ET70-24MCW-FR (E)	SPEAKER/STROBE, WALL, 24 VDC, RED, SEL CD 1W	0	0	0	0
DAP 1-S2				▼ 24	1	ELSPSTR	WALL SPEAKER STROBE, RED, FIRE 0.25W	0	0	0	0
				▼ 24	2	ELSPSTR	WALL SPEAKER STROBE, RED, FIRE 0.5W	0	0	0	0
								TOTAL STANDBY (A)	0.324	TOTAL ALARM (A)	7.10
								REQUIRED STANDBY TIME (HOURS)		24	
								REQUIRED ALARM TIME (MINUTES)		15	
SECONDARY STANDBY LOAD (A)							0.324	24	7.78		
SECONDARY ALARM LOAD (A)							7.10	0.25	9.55	1.78	
STANDBY AND ALARM SUBTOTAL (AMP HOURS)									9.55		
DERATING FACTOR									1.25		
SECONDARY LOAD REQUIREMENTS (AMP HOURS)									11.94		
PROVIDE (2) 12V 12AH BATTERIES											
*BATTERY BOX SIZE CAPACITY NOT SPECIFIED. REFER TO MANUFACTURER DOCUMENTATION.											

PANEL DAP 2 (E) (E3 SERIES AMPLIFIER (100W, 25V)) BATTERY CALCULATION (SECONDARY POWER SOURCE REQUIREMENTS)												
						STANDBY CURRENT		SECONDARY ALARM CURRENT				
						CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)			
PANEL COMPONENTS						QTY	PART NO.	DESCRIPTION				
						1	E3 SERIES AMPLIFIER (100W, 25V)	E3 SERIES VOICE EVACUATION PANEL W/INI-VGX, 2X AM-S0 ABS-4D, PM-9, INX-TRANSPONDER	0	0	0	0
						1	1100-0460	INX-TRANSPONDER 19" (CM) BACKBOX WITH DOOR, BLACK, AM-S0, 70.7V RMS AUDIO OUTPUT, 50 WATT, (MAX CURRENT)	0	0	0	0
						3	AM-S0-70	AM-S0, 70.7V RMS AUDIO OUTPUT, 50 WATT, (MAX CURRENT)	0.049	0.147	2.30	6.90
						1	INI-VGX	TRANSPONDER VOICE GATEWAY (UTP ONLY)	0.15	0.15	0.15	0.15
						1	PM-9	POWER SUPPLY CARD	0.027	0.027	0.05	0.05
CIRCUIT	MAX CARD AMPS	USED CARD AMPS	SPARE CARD AMPS	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)	
								TOTAL STANDBY (A)	0.324	TOTAL ALARM (A)	7.10	
								REQUIRED STANDBY TIME (HOURS)			24	
								REQUIRED ALARM TIME (MINUTES)			15	
							0.324	24			7.78	
							7.10	0.250			1.775	
										9.55		
										1.25		
										11.94		
PROVIDE (2) 12V 12AH BATTERIES												
*BATTERY BOX SIZE CAPACITY NOT SPECIFIED. REFER TO MANUFACTURER DOCUMENTATION.												



FIRE ALARM RISER DIAGRAM

SCALE: NONE

FIRE ALARM BATTERY AND VOLTAGE DROP CALCULATIONS

SCALE: NONE

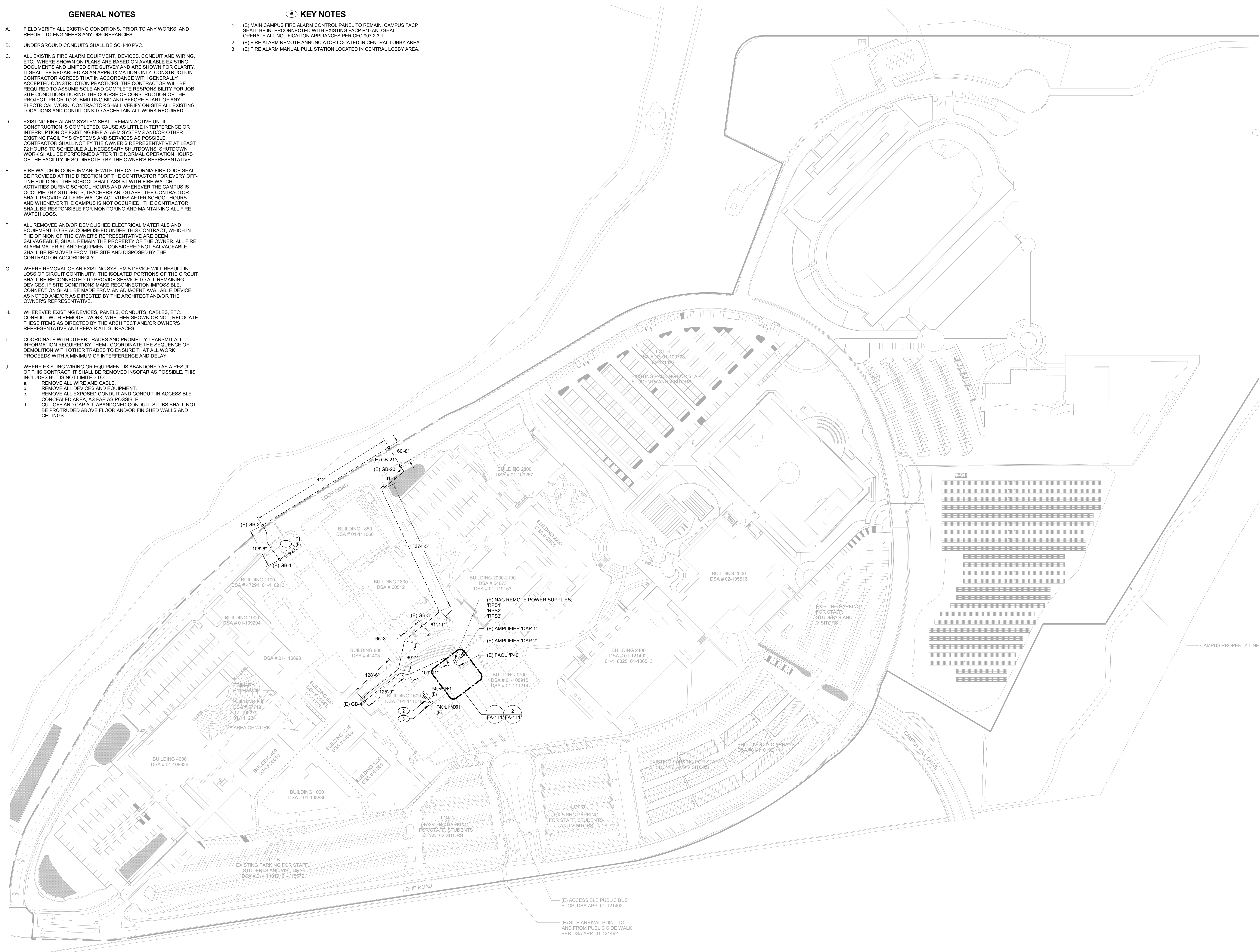
PANEL P40 (E) (E3 SERIES FACP) BATTERY CALCULATION (SECONDARY POWER SOURCE REQUIREMENTS)											
PANEL COMPONENTS						STANDBY CURRENT CURRENT DRAW (A)		SECONDARY ALARM CURRENT DRAW (A)			
	QTY	PART NO.	DESCRIPTION			TOTAL (A)		TOTAL (A)			
P40-ANN	1	E3 SERIES FACP	E3 SERIES FIRE ALARM CONTROL PANEL W/ E3BB-BB, PM-9, ILI-MB-E3, E3D2-B, LCD-E3, ASM-16			0	0	0	0		
	1	E3BB-BB/INX	ASSY, TRANSDUCER, BLACK, "C" SIZE			0	0	0	0		
	1	E3D2-C	ASSY, INNER DOOR, COMMAND CENTER, 2-BAY "C" SIZE			0	0	0	0		
	1	E3-INCC-PLATE	COMMAND CENTER MODULE MOUNTING PLATE, "C" SIZE			0	0	0	0		
	1	ILI-MB-E3	INTELLIGENT LOOP INTERFACE MAIN BOARD			0.081	0.081	0.15	0.15		
	1	INI-VGC	COMMAND CENTER VOICE GATEWAY (UTP ONLY)			0.15	0.15	0.15	0.15		
	1	LCD-E3	LCD KEYPAD DISPLAY			0.024	0.024	0.028	0.028		
	1	PM-9	POWER SUPPLY CARD			0.027	0.027	0.05	0.05		
	1	RPT-E3-UTP	REPEATER MODULE-TWISTED-PAIR			0.016	0.016	0.017	0.017		
	CIRCUIT	MAX CARD AMPS	USED CARD AMPS	SPARE CARD AMPS	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)
P40-L1	N/A	0.010000		[GAP]	1	NGA (E)	NETWORK GRAPHIC ANNUNCIATOR	0	0	0	0
				[S]	9	ASD-PL2F W/B210LP (E)	DETECTOR, SMOKE, ADDRESSABLE PHOTO W/STANDARD BASE	0.0003	0.0027	0.0003	0.0027
				[H]	1	ATD-L2F W/B210LP (E)	INTELLIGENT ADDRESSABLE 135°F (57°C) THERMAL DETECTOR W/ FLASHSCAN PLUG-IN DETECTOR BASE	0.0003	0.0003	0.0003	0.0003
				[F]	1	MS-7AF (E)	VELOCITI ADDRESSABLE DOUBLE ACTION STATION	0.0003	0.0003	0.007	0.007
							TOTAL STANDBY (A)	0.3013	TOTAL ALARM (A)	0.405	
							REQUIRED STANDBY TIME (HOURS)		24		
							REQUIRED ALARM TIME (MINUTES)		15		
						0.3013	24	7.23			
						0.405	0.25		0.10125		
								7.33			
								1.25			
								9.17			
PROVIDE (2) 12V 12AH BATTERIES											
*BATTERY BOX SIZE CAPACITY NOT SPECIFIED. REFER TO MANUFACTURER DOCUMENTATION.											

PANEL P40 (E) (E3 SERIES FACP) BATTERY CALCULATION (SECONDARY POWER SOURCE REQUIREMENTS)											
PANEL COMPONENTS						STANDBY CURRENT		SECONDARY ALARM CURRENT			
					QTY	PART NO.	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
					1	E3 SERIES FACP	E3 SERIES FIRE ALARM CONTROL PANEL W/ E3BB-BB, PM-9, ILI-MB-E3, E3D2-B, LCD-E3, ASM-16	0	0	0	0
					1	E3BB-BB/INX	ASSY, TRANSDUCER, BLACK, "C" SIZE	0	0	0	0
					1	E3D2-C	ASSY, INNER DOOR, COMMAND CENTER, 2-BAY "C" SIZE	0	0	0	0
					1	E3-INCC-PLATE	COMMAND CENTER MODULE MOUNTING PLATE, "C" SIZE	0	0	0	0
					1	ILI-MB-E3	INTELLIGENT LOOP INTERFACE-MAIN BOARD	0.081	0.081	0.15	0.15
					1	INI-VGC	COMMAND CENTER VOICE GATEWAY (UTP ONLY)	0.15	0.15	0.15	0.15
					1	LCD-E3	LCD KEYPAD DISPLAY	0.024	0.024	0.028	0.028
					1	PM-9	POWER SUPPLY CARD	0.027	0.027	0.05	0.05
					1	RPT-E3-UTP	REPEATER MODULE-TWISTED-PAIR	0.016	0.016	0.017	0.017
					CIRCUIT	MAX CARD AMPS	USED CARD AMPS	SPARE CARD AMPS	SYMBOL	QTY	PART NO.
P40-L1	N/A	0.000900		Ⓢ	3	ASD-PL2P W1B210LP (E)	DETECTOR, SMOKE ADDRESSABLE PHOTO W/STANDARD BASE	0.0003	0.0009	0.0003	0.0009
								TOTAL STANDBY (A)	0.2989	TOTAL ALARM (A)	0.3959
								REQUIRED STANDBY TIME (HOURS)			24
								REQUIRED ALARM TIME (MINUTES)			15
SECONDARY STANDBY LOAD (A)							0.2989				7.17
SECONDARY ALARM LOAD (A)							0.3959	0.250			0.099
STANDBY AND ALARM SUBTOTAL (AMP HOURS)										7.27	
DERATING FACTOR										1.25	
SECONDARY LOAD REQUIREMENTS (AMP HOURS)										9.09	
PROVIDE (2) 12V 12AH BATTERIES											
*BATTERY BOX SIZE CAPACITY NOT SPECIFIED. REFER TO MANUFACTURER DOCUMENTATION.											

KEY NOTES

- A. FIELD VERIFY ALL EXISTING CONDITIONS, PRIOR TO ANY WORKS, AND REPORT TO ENGINEERS ANY DISCREPANCIES
- B. UNDERGROUND CONDUITS SHALL BE 5CH-40 PVC.
- C. ALL EXISTING FIRE ALARM EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., WHERE SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DOCUMENTS AND LIMITED SITE SURVEY AND ARE SHOWN FOR CLARITY. THE CONTRACTOR, REGARDLESS AS AN APPROPRIATION, ONLY, CONTRACTOR CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE RESPONSIBLE TO ASSURE THAT THE INFORMATION AS SHOWN ON THE SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. PRIOR TO SUBMITTING BID AND BEFORE START OF ANY WORK, THE CONTRACTOR SHALL VISIT THE SITE, VERIFY ALL EXISTING LOCATIONS AND CONDITIONS TO ASCERTAIN ALL WORK REQUIRED.
- D. EXISTING FIRE ALARM SYSTEM SHALL REMAIN ACTIVE UNTIL CONSTRUCTION IS COMPLETED. CAUSE AS LITTLE INTERFERENCE OR INTERRUPTION OF EXISTING FIRE ALARM SYSTEMS AND/OR OTHER EXISTING FACILITY'S SYSTEMS AS POSSIBLE. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AT LEAST 72 HOURS TO SCHEDULE ALL NECESSARY SHUTDOWNS. SHUTDOWN WORK SHALL BE PERFORMED AFTER THE NORMAL OFFICE HOURS OF THE FACILITY, IF SO DIRECTED BY THE OWNER'S REPRESENTATIVE.
- E. FIRE WATCH IN CONFORMANCE WITH THE CALIFORNIA FIRE CODE SHALL BE PROVIDED AT THE DIRECTION OF THE CONTRACTOR FOR EVERY OFF-LINE BUILDING. THE SCHOOL SHALL ASSIST WITH FIRE WATCH ACTIVITIES DURING SCHOOL HOURS. AFTER SCHOOL HOURS THE CAMPUS IS OCCUPIED BY STUDENTS, TEACHERS AND STAFF. THE CONTRACTOR SHALL PROVIDE ALL FIRE WATCH ACTIVITIES AFTER SCHOOL HOURS AND SHALL NEVER BE RESPONSIBLE FOR THE FIRE WATCH. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING AND MAINTAINING ALL FIRE WATCH LOGS.
- F. ALL REMOVED AND/OR DEMOLISHED ELECTRICAL MATERIALS AND EQUIPMENT TO BE ACCOMPISHED UNDER THIS CONTRACT, WHICH IN THE OPINION OF THE OWNER, IS NOT SHOWN OR NOT RELOCATED. SALVAGEABLE SHALL REMAIN THE PROPERTY OF THE OWNER. ALL FIRE ALARM MATERIAL AND EQUIPMENT CONSIDERED NOT SALVAGEABLE SHALL BE REMOVED FROM THE SITE AND DEPOSED BY THE CONTRACTOR ACCORDINGLY.
- G. WHERE REMOVAL OF AN EXISTING SYSTEM'S DEVICES WILL RESULT IN LOSS OF CIRCUIT CONTINUITY, THE ISOLATED PORTIONS OF THE CIRCUIT SHALL BE RECONNECTED TO PROVIDE SERVICE TO ALL REMAINING DEVICES. IF THE SITE CONDITIONS DO NOT ALLOW RECONNECTING THE CONNECTION SHALL BE MADE FROM AN ADJACENT AVAILABLE DEVICE AS NOTED AND/OR AS DIRECTED BY THE ARCHITECT AND/OR THE OWNER'S REPRESENTATIVE.
- H. WHEREVER EXISTING DEVICES, PANELS, CONDUITS, CABLES, ETC., CONFLICT WITH THE OTHERS, THE CONTRACTOR SHALL NOT RELOCATE THESE ITEMS AS DIRECTED BY THE ARCHITECT AND/OR OWNER'S REPRESENTATIVE AND REPAIR ALL SURFACES.
- I. COORDINATE WITH OTHER TRADES AND PROMPTLY TRANSMIT ALL INFORMATION REQUIRED BY THEM. COORDINATE THE SEQUENCE OF DEMOLITION WITH THE OTHER TRADES TO AVOID ANY WORK PROCEEDS WITH A MINIMUM OF INTERFERENCE AND DELAY.
- J. WHERE EXISTING WIRING OR EQUIPMENT IS ABANDONED AS A RESULT OF THIS CONTRACT, IT SHALL BE REMOVED INSOFAR AS POSSIBLE. THIS INCLUDES BUT IS NOT LIMITED TO:
1. REMOVE ALL WIRE AND CABLE.
 2. REMOVE ALL DEVICES AND EQUIPMENT.
 3. REMOVE ALL EXPOSED CONDUIT AND CONDUITS IN ACCESSIBLE AREAS UNLESS A CANCELLED AREA IS SHOWN ON THE PLANS.
 4. CUT OFF AND CAP ALL ABANDONED CONDUIT. STUBS SHALL NOT BE PROTRUDED ABOVE FLOOR AND/OR FINISHED WALLS AND CEILINGS.

- 1 (E) MAIN CAMPUS FIRE ALARM CONTROL PANEL TO REMAIN. CAMPUS FACP
SHALL BE INTERCONNECTED WITH EXISTING FACP P40 AND SHALL
OPERATE ALL NOTIFICATION APPLIANCES PER CFC 907.2.3.1.
- 2 (E) FIRE ALARM REMOTE ANNUNCIATOR LOCATED IN CENTRAL LOBBY AREA
- 3 (E) FIRE ALARM MANUAL PULL STATION LOCATED IN CENTRAL LOBBY AREA



1 FIRE ALARM SITE PLAN
SCALE: 1" = 100'-0"

SCALE: 1" = 100'-0"



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122895 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 06/16/2026

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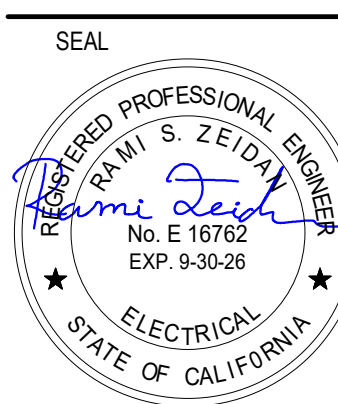
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Job #: 25-2030



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PATHWAYS SUPPORT CENTER
RENOVATION

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LIVERMORE, CA 94551

CLIENT
CHABOT-LAS POSITAS COMMUNITY COLLEGE
DISTRICT
3000 CAMPUS HILL DRIVE LIVERMORE, CA 94530

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MARK	DATE	DESCRIPTION

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TITL

FIRE ALARM SITE PLAN

SHEET

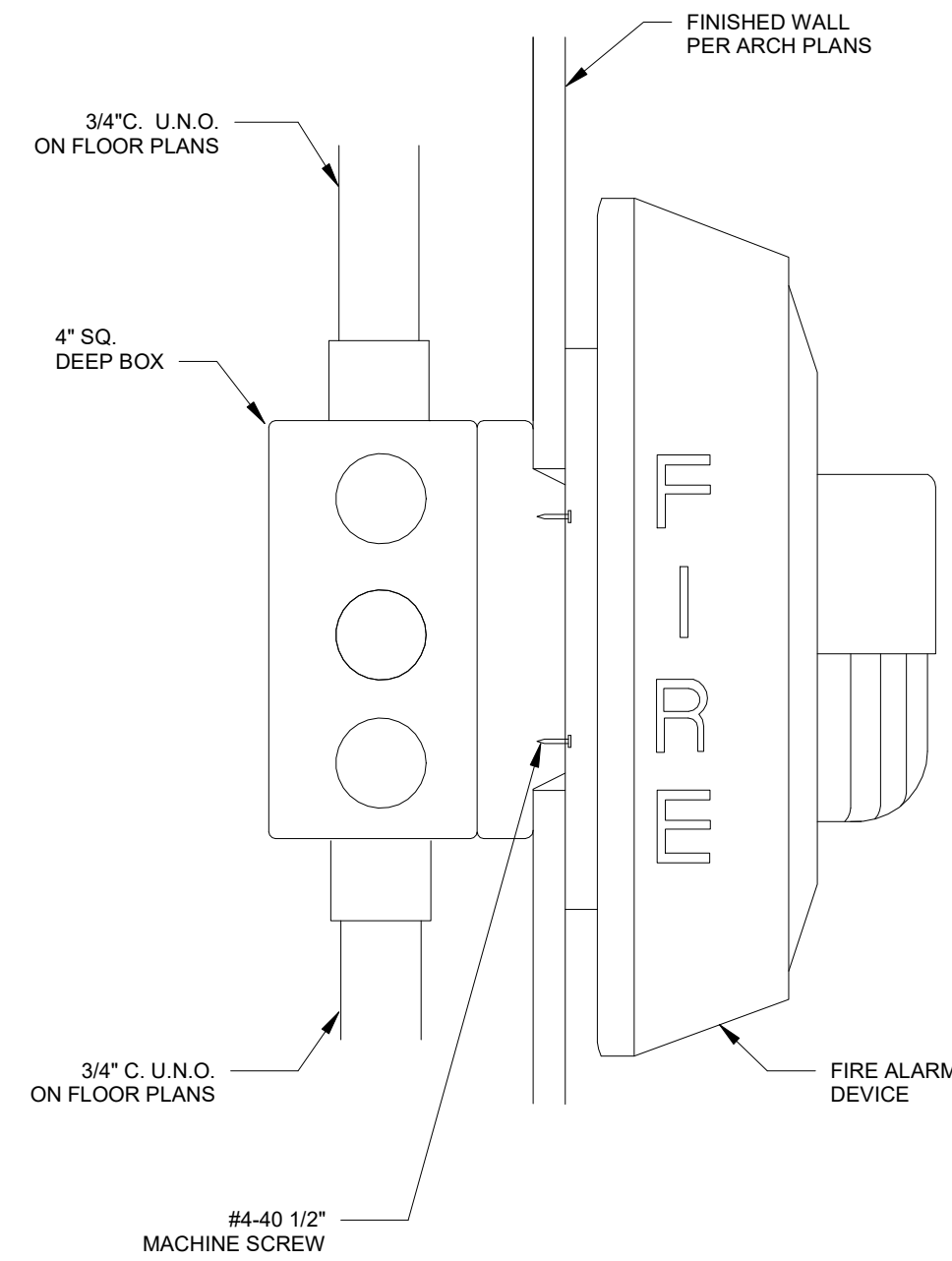
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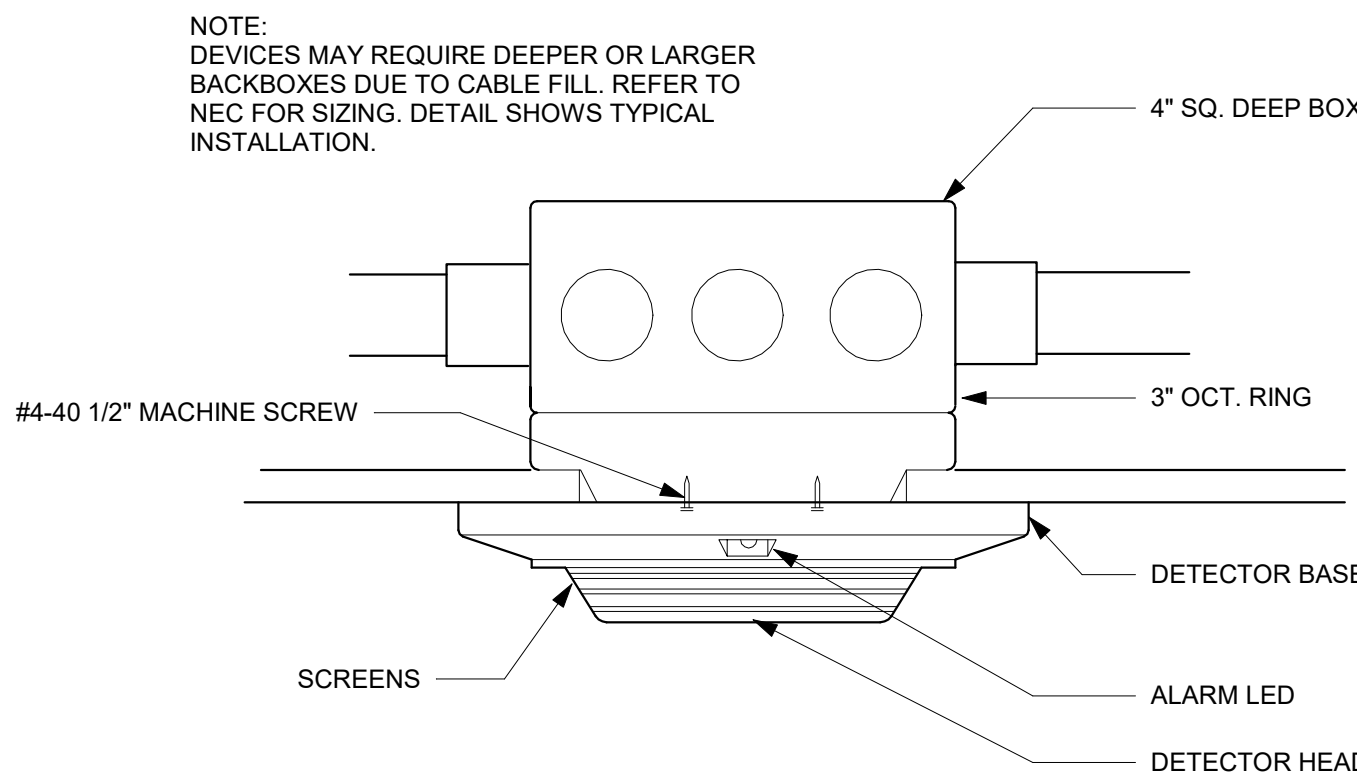
PLAN
NORTH



- NOTE:
1. DEVICES MAY REQUIRE DEEPER OR LARGER BACKBOXES DUE TO CABLE FILL. REFER TO NEC FOR SIZING. DETAIL SHOWS TYPICAL INSTALLATION.
 2. REFER TO 1FA-801 FOR BACKBOX/DEVICE MOUNTING HEIGHTS.

FIRE ALARM DEVICE MOUNTED ON WALL (TYP.)

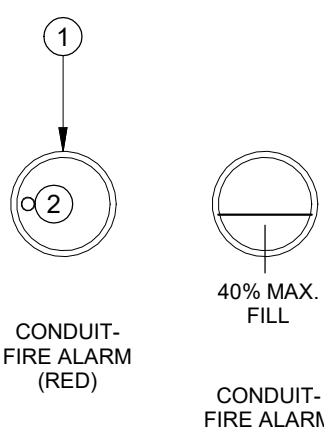
NTS 10



FIRE ALARM DETECTOR MOUNTING DETAIL (BELOW CEILING)

NTS 11

- (1) EA. 2" CONDUIT.
- (2) 1/2" NYLON MULE STRING 900 LBS PULL STRENGTH W/ FOOT MARKINGS.

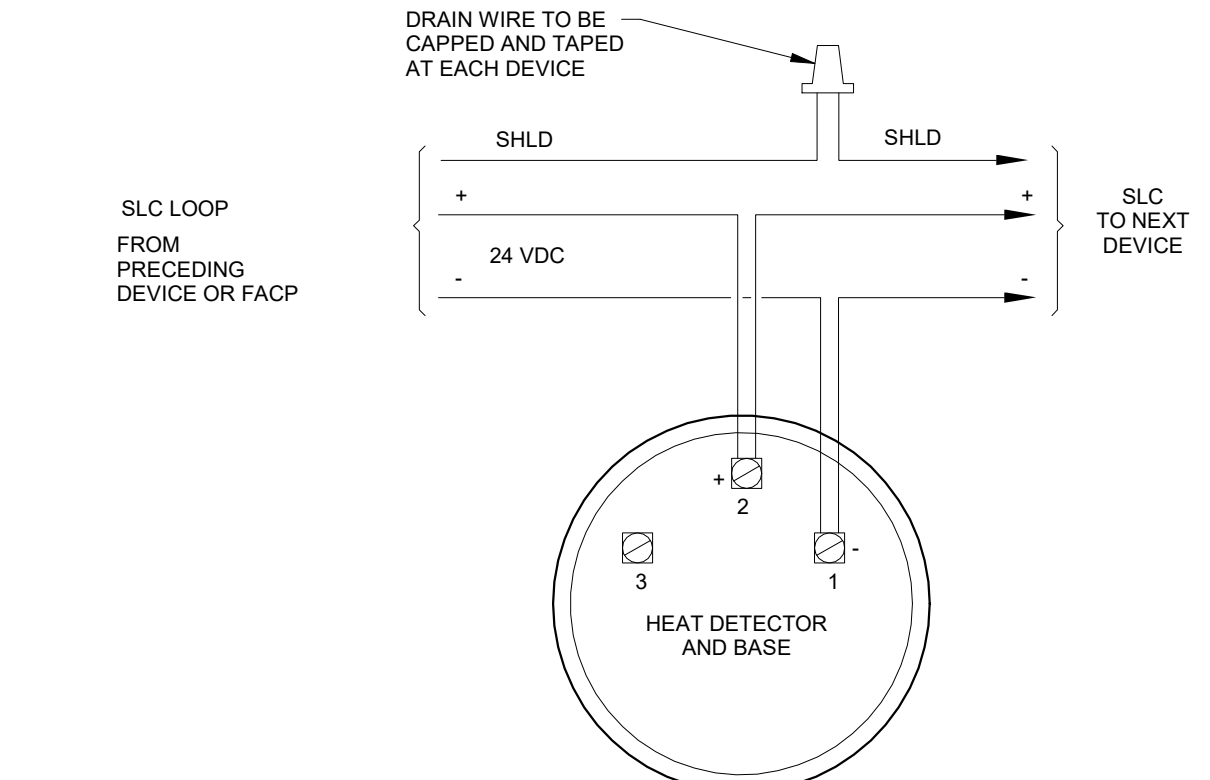


FIRE ALARM CONDUIT FILL DETAIL

NTS 12

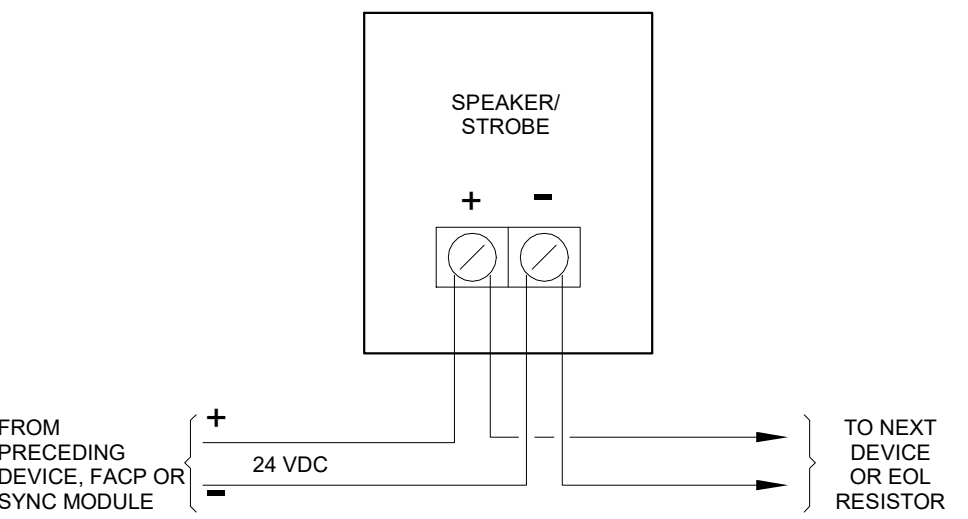
CONDUIT DIA.	FILL RATIO (0.250" DIA.)
1"	6-CABLES
1-1/4"	10-CABLES
2"	28-CABLES
4"	102-CABLES

NOTE: CONTRACTOR SHALL BE REQUIRED TO UPSIZE CONDUIT AND/OR QTY AS NOTED PER FILL RATIO CAPACITY.



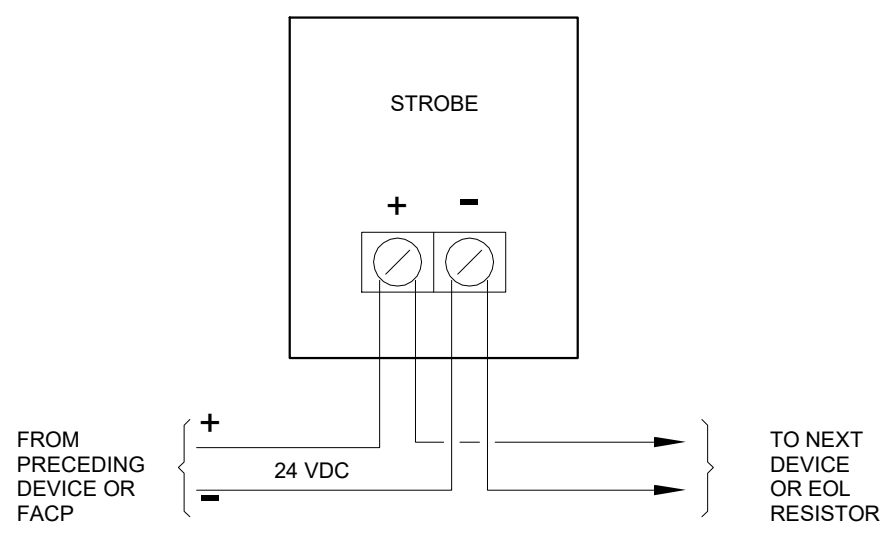
FIRE ALARM HEAT DETECTOR POINT TO POINT DIAGRAM

NTS 7



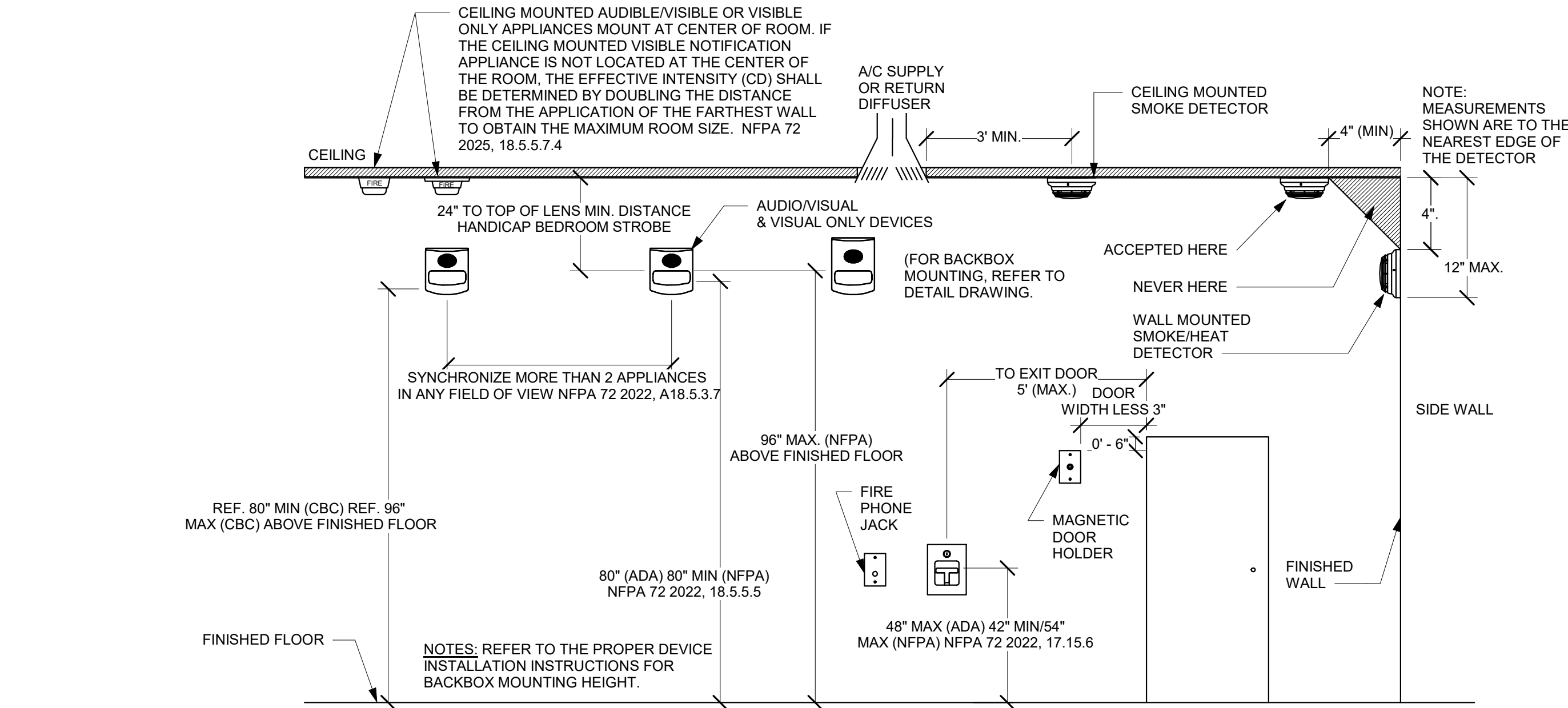
FIRE ALARM SPEAKER STROBE POINT TO POINT DIAGRAM

NTS 8



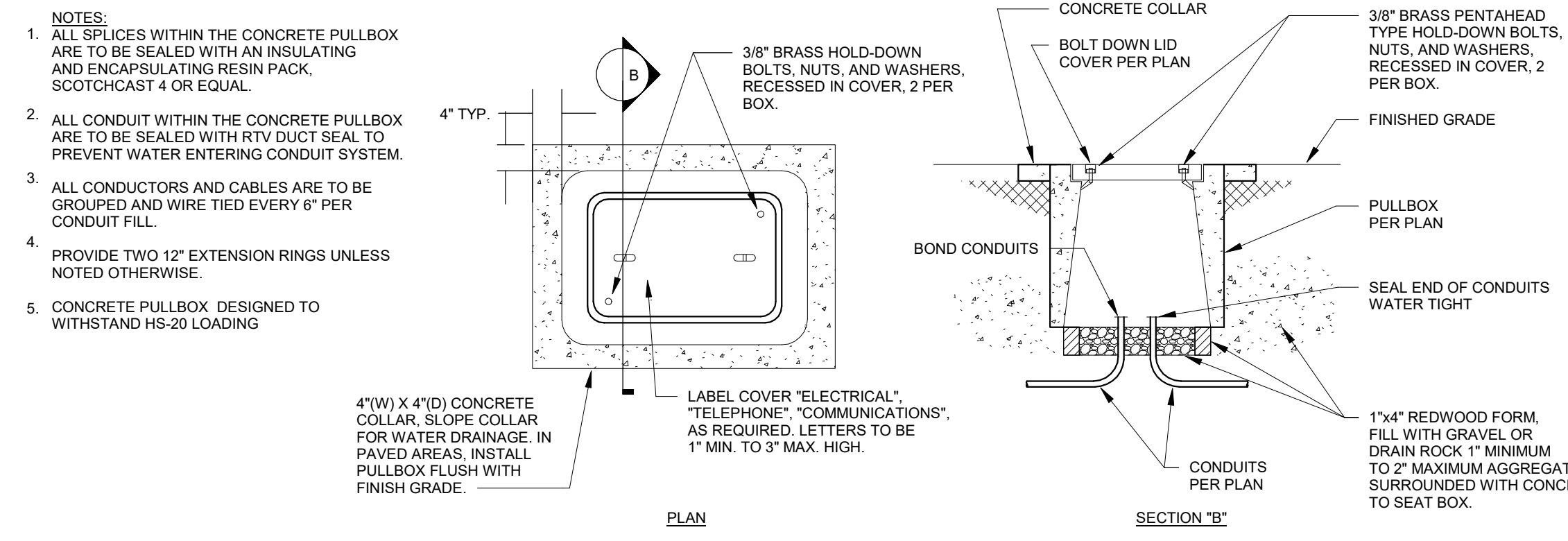
FIRE ALARM STROBE POINT TO POINT DIAGRAM

NTS 9



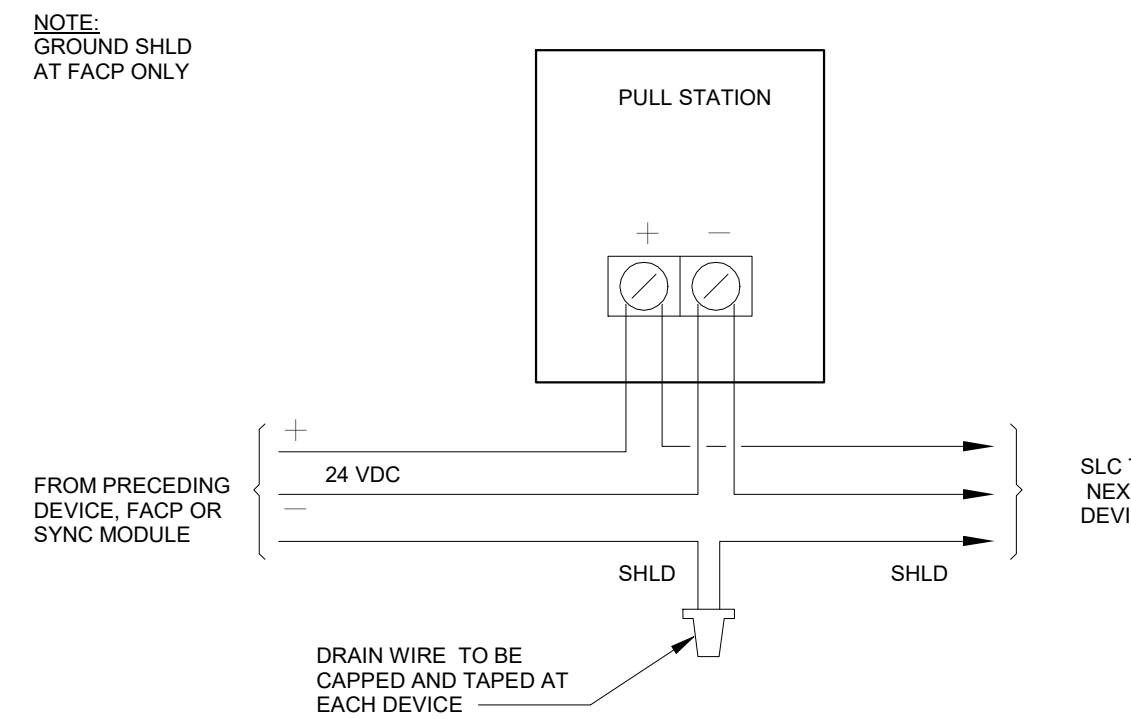
EQUIPMENT MOUNTING HEIGHTS

NTS 1



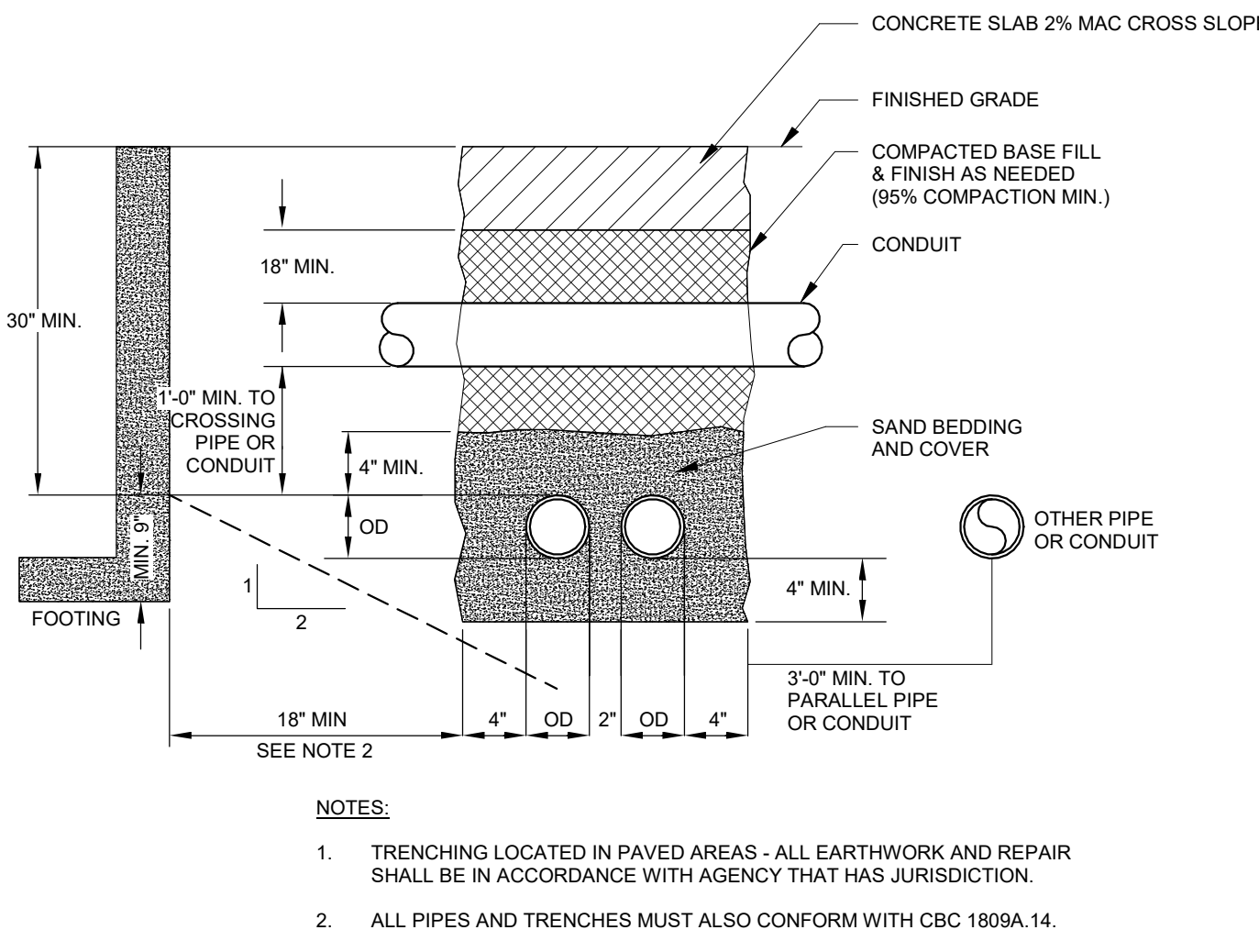
UNDERGROUND CONCRETE PULLBOX DETAIL

NTS 2



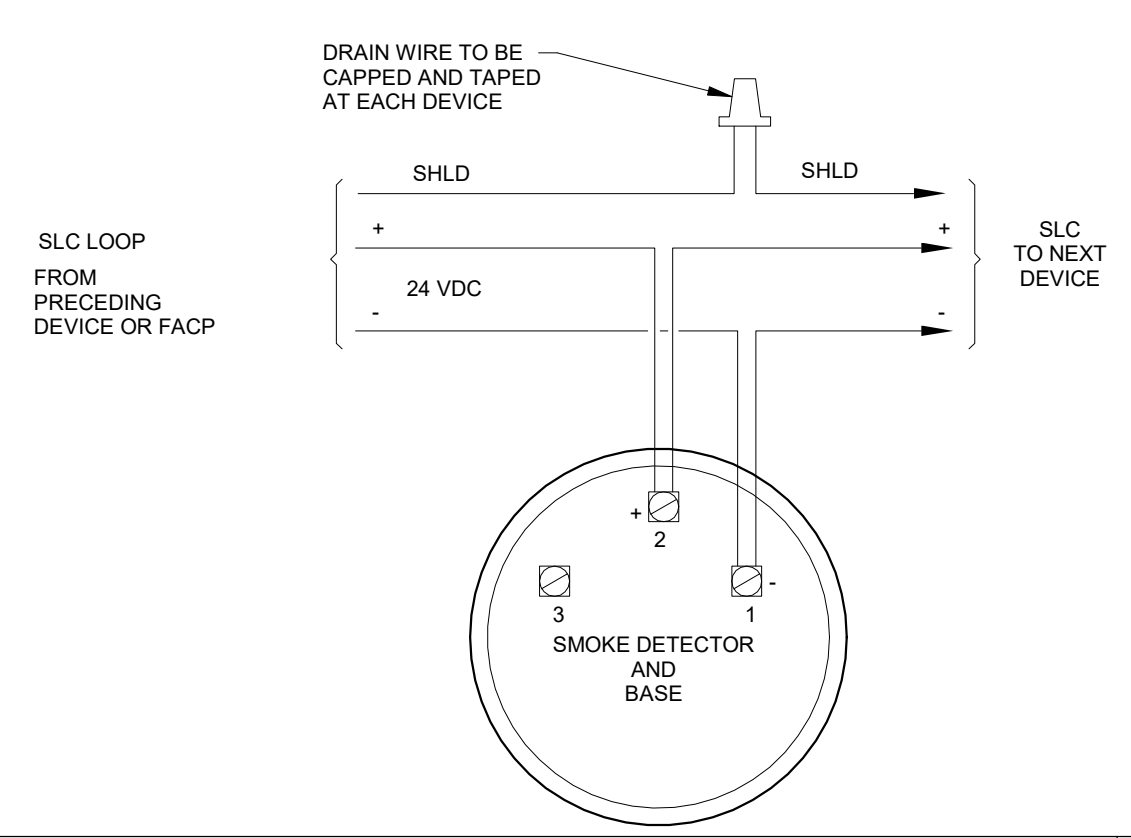
FIRE ALARM MANUAL PULL STATION POINT TO POINT DIAGRAM

NTS 5



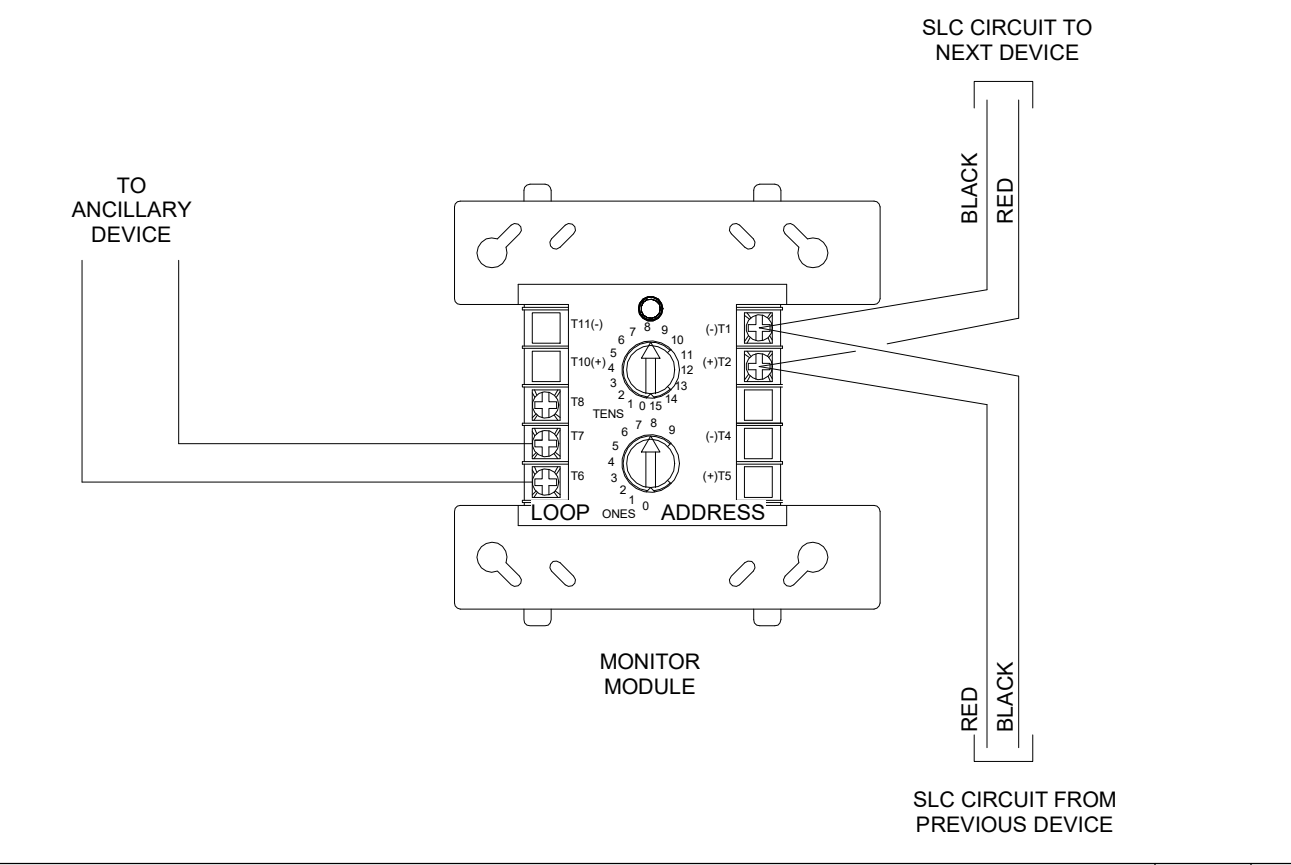
TYPICAL TRENCH DETAIL

NTS 3



SMOKE DETECTOR POINT TO POINT DIAGRAM

NTS 6



MONITOR MODULE WIRING DIAGRAM

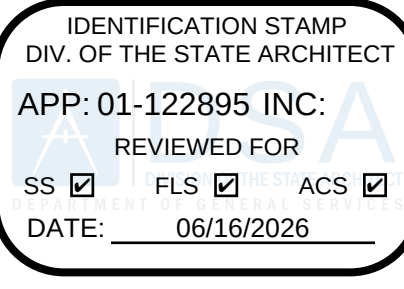
NTS 4

12

CTRL. UNIT ANNUNCIATION																	NOTIFICATION										FIRE SAFETY CONTROL										REMARKS
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD								
SYSTEM ALARM CONDITION																	ACTIVATE FIRE ALARM NOTIFICATION SIGNAL										ACTIVATE FIRE ALARM NOTIFICATION SIGNAL										
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FIRE ALARM SEQUENCE OF OPERATIONS

NTS 13

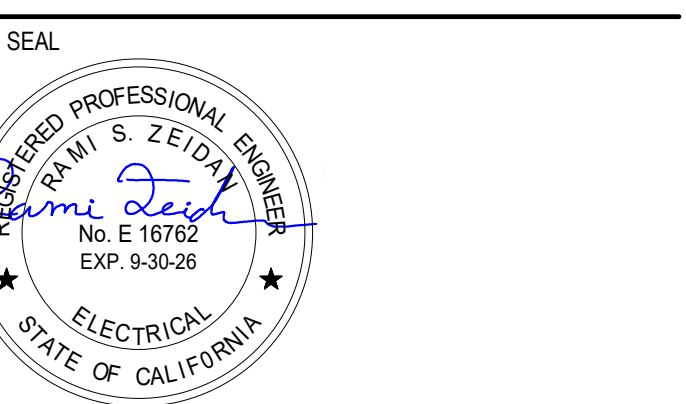


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Job #: 25-2030



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RENOVATION

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LIVERMORE, CA 94551

CLIENT
CHABOT-LAS POSITAS COMMUNITY COLLEGE
DISTRICT
3000 CAMPUS HILL DRIVE LIVERMORE, CA 94551

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TITLE
FIRE ALARM DETAILS
AND SEQUENCE OF
OPERATIONS

SHEET
FA-801

TECHNOLOGY ABBREVIATIONS:			
ACP	ACCESS CONTROL PROCESSOR	MIC	MICROPHONE
AFF	ABOVE FINISHED FLOOR	MM	MULTIMODE
AHJ	AUTHORITY HAVING JURISDICTION	MPOE	MINIMUM POINT OF ENTRY
AMP	AMPLIFIER	(N)	NEW
AOR	ARCHITECT OF RECORD	NC	NORMALLY CLOSED
AUD	AUDIO	NIC	NOT IN CONTRACT
AUTO	AUTOMATIC	NO	NORMALLY OPEN
AUX	AUXILIARY	NTS	NOT TO SCALE
AV	AUDIOVISUAL	NWR	NETWORK VIDEO RECORDER
AVC	AUDIOVISUAL CONTROLLER	OC	ON CENTER
AWG	AMERICAN WIRE GAUGE	OCFI	DISTRICT FURNISHED,
B	BLANK	OC	CONTRACTOR INSTALLED
BCT	BONDING CONDUCTOR FOR	OFDI	DISTRICT FURNISHED,
C	TELECOMMUNICATIONS CONDUIT		DISTRICT INSTALLED
CONDUIT	CONDUIT	OSP	OUTSIDE PLANT
CTV	COMMUNITY ANTENNA TELEVISION	PB	PULL BOX
OCFI	CONTRACTOR FURNISHED,	PIR	PASSIVE INFRARED
OFDI	CONTRACTOR INSTALLED	POE	POWER OVER ETHERNET
	DISTRICT FURNISHED,	PR	PAIR OF CONDUCTORS
	DISTRICT INSTALLED	PTZ	PAN TILT ZOOM
CL	CENTERLINE	PVC	POLYVINYL CHLORIDE
CL	CENTERLINE	PWR	POWER
DIV	DIVISION	RCP	REFLECTED CEILING PLAN
DC	DOOR CONTACT	REX	REQUEST TO EXIT
EI	EXISTING	RFI	REQUEST FOR INFORMATION
EC	ELECTRICAL CONTRACTOR	RMC	RIGID METALLIC CONDUIT
ECS	EMERGENCY COMMUNICATION	RS	REMOVE AND RELOCATE
EF	SYSTEM	SM	SINGLE MODE
EMT	ELECTRIC METALLIC TUBING	STR	STRANDS (OF FIBER)
ER	EQUIPMENT ROOM	STP	SHIELDED TWISTED PAIR
EXT	EXTERIOR	SEC	SECURITY
FA	FUTURE	TA	TEMPERATURE ALARM
FACP	FIRE ALARM CONTROL PANEL	TB8	TELECOMMUNICATIONS
FATC	FIRE ALARM TERMINAL CABINET	TELO	TELEPHONE COMPANY
FB	FLOORBOX	TGB	TELECOMMUNICATIONS
FO	FIBER OPTIC	~~TELO~~	~~TELEPHONE COMPANY~~
GB	GROUND BOX	TGB	TELECOMMUNICATIONS
GC	GENERAL CONTRACTOR	TGB	TELECOMMUNICATIONS
IC	INTERCOM	TMGB	GROUNDING BUSBAR
IDF	INTERMEDIATE DISTRIBUTION	UNP	UNINTERRUPTIBLE POWER
	FRAME	UTP	UNSHIELDED TWISTED PAIR
ICP	INTRUSION CONTROL PROCESSOR	V	VOICE
INT	INTERIOR	VSS	WALL BOX
IT	INFORMATION TECHNOLOGY	WP	WEATHERPROOF
JB	JUNCTION BOX		
MDP	MAIN DISTRIBUTION FRAME		
LCP	LIGHTING CONTROL PANEL		

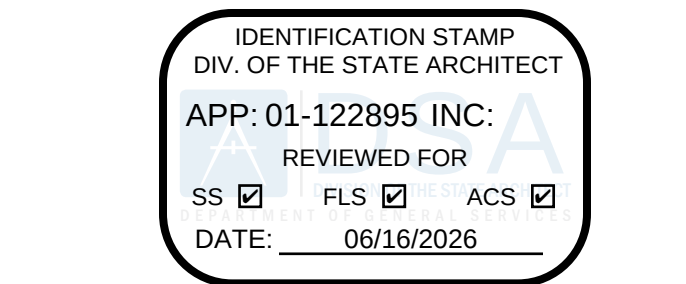
EQUIPMENT ANCHORAGE NOTES:	
APPLICABLE CODE: 2025 CBC	
MEP COMPONENT ANCHORAGE NOTE	
ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2025 CBC SECTIONS 1617A.1.1E THROUGH 1617A.1.26 AND ASCE 7-22 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 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.	
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 HAVE 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 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 ABOVE REQUIREMENTS.	

PIPING, AND DUCTWORK DISTRIBUTION SYSTEM BRACING NOTES:	
APPLICABLE CODE: 2025 CBC PER IR 16-13.	
MEP DISTRIBUTION SYSTEM BRACING NOTE FOR PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE	
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7 SECTION 13.3 AS DEFINED IN ASCE 7 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2025 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. THE MEP DESIGN PROFESSIONAL ENGINEER RESPONSIBLE FOR CONTENT ON THESE SHEETS HAS VERIFIED THAT THE DESIGN METHODS IDENTIFIED BELOW ARE IN ACCORDANCE WITH DSA IR 16-13.	
MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E).	
MP MD PP E	OPTION 1: PROJECT-SPECIFIC DESIGN.
☐ ☐ ☐ ☐	
MP MD PP E	OPTION 2: DESIGN BASED ON OSHPD, WITHIN PROJECT SUBMITTAL.
☐ ☐ ☐ ☐	
MP MD PP E	OPTION 3: DESIGN BASED ON OSHPD, DEFERRED SUBMITTAL.
☐ ☐ ☐ ☐	

TECHNOLOGY PENETRATION NOTES:	
1. UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL MAKE NO PENETRATION OF FLOORS, WALLS OR CEILING WITHOUT THE PRIOR WRITTEN APPROVAL OF THE DISTRICT'S REPRESENTATIVE.	
2. WALL PENETRATIONS:	
a. THE SCS AND/OR LV CONTRACTOR SHALL PROVIDE FIRE STOPPING FOR ALL COMMUNICATIONS RATED (AND IN SOME CASES NON-RATED, THAT WILL BE DESCRIBED BELOW THIS SECTION) PATHWAYS AND SPACES. THESE FIRE STOPPING DEVICES SHALL CONFORM TO (BUT NOT LIMITED TO) UL 1479, ASTM E814, BCSI TDM, FIRE STOPPING ANSITIA-588-C, STANDARD FOR INSTALLING COMMERCIAL BUILDING TELECOMMUNICATIONS CABLING, SECTION 5.1 THROUGH 5.2.3, MANUFACTURER'S GUIDELINES OR OTHER PREVAILING CODE AND MUST BE AN APPROVED UL LISTED SYSTEM.	
b. CABLE TRAY FIRE-STOPPING SHALL UTILIZE THE MULTI GANG FIRE-STOPPING SYSTEM THAT WILL BE ABLE TO STACK THE UNITS HORIZONTALLY AND/OR VERTICALLY IF REQUIRED DUE TO CURRENT AND/OR FUTURE CABLING DESIGNS.	
c. THE CONTRACTOR SHALL INSTALL PENETRATION FIRE-STOP SEAL MATERIALS IN ACCORDANCE WITH DESIGN REQUIREMENTS, AND MANUFACTURER'S INSTRUCTIONS.	
d. THE CONTRACTOR'S INSTALLER SHALL BE CERTIFIED, LICENSED OR OTHERWISE QUALIFIED BY THE FIRE-STOPPING MANUFACTURER AS HAVING BEEN PROVIDED THE NECESSARY TRAINING TO INSTALL MANUFACTURER'S PRODUCTS PER SPECIFIED REQUIREMENTS.	
e. ALL THROUGH-PENETRATION SHALL BE A MANUFACTURED, UL CLASSIFIED, FIRE-STOP DEVICE / SYSTEM DESIGNED TO ALLOW CABLES TO PENETRATE FIRE-RATED WALLS WITH A BUILT-IN FIRE SEALING SYSTEM THAT AUTOMATICALLY ADJUSTS TO THE AMOUNT OF CABLES INSTALLED. THE FIRE-STOPPING DEVICE SHALL BE CAPABLE OF INSTALLATION IN NEW CONSTRUCTION OR RETROFIT IN EXISTING STRUCTURES.	
f. THE CONTRACTOR MUST NOT USE CONCRETE OR OTHER NON-REMOVABLE SUBSTANCE FOR FIRE STOPPING ON CABLE TRAYS, WIREWAYS OR CONDUITS. CONTRACTORS WHO USE THIS METHOD WILL BE REQUIRED TO REPLACE ALL CABLES AFFECTED AND PROVIDE THE ORIGINAL SPECIFIED ACCESS TO EACH EFFECTED AREA. THIS REQUIREMENT ALSO APPLIES TO MAINTAINING FIRE RATINGS OF ALL FLOORS PENETRATED BY CONDUITS OR DEVICES DESIGNATED FOR USE BY VOICE AND DATA CABLING.	
g. ANY PENETRATIONS THROUGH FIRE-RATED WALLS FOR CABLE PATHWAYS / CABLES SHALL BE SEALED BY USE OF A NON-PERMANENT FIRE BLANKET OR OTHER METHOD IN COMPLIANCE. THE CONTRACTOR MUST USE FIRE STOPPING ON CABLE TRAYS, WIREWAYS AND CONDUITS EITHER VERTICAL OR HORIZONTAL. FOUR DIFFERENT METHODS OF FIRE-STOPPING HAVE BEEN IDENTIFIED FOR THE HORIZONTAL THROUGH PENETRATIONS BETWEEN WALLS, RATED, RATED WITH ACOUSTIC PROPERTIES, NON-RATED, AND NON-RATED WITH ACOUSTIC PROPERTIES.	
BELOW ARE METHODS TO ACCOMPLISH THESE DIFFERENT TYPES:	
• SEALING OF RATED OPENINGS BETWEEN FLOORS OR THROUGH RATED WALLS, WHETHER EXISTING OR CREATED BY THE CONTRACTOR FOR PLACEMENT OF CABLE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SEALING MATERIAL AND APPLICATION SHALL BE AN APPROVED UL LISTED SYSTEM AND SHALL BE ACCOMPLISHED IN SUCH A MANNER THAT IS ACCEPTABLE TO THE LOCAL FIRE AND BUILDING AUTHORITIES HAVING JURISDICTION OVER THIS WORK. CREATION OF SUCH OPENINGS AS ARE NECESSARY FOR CABLE PASSAGE BETWEEN LOCATIONS AS SHOWN ON THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ANY OPENINGS CREATED BY OR FOR THE CONTRACTOR AND LEFT UNUSED SHALL ALSO BE SEALED AS PART OF THIS WORK.	
• RATED WALLS WITH THROUGH PENETRATIONS WITH ACOUSTIC PROPERTIES SHALL BE INSTALLED WITH FACTORY MANUFACTURED DEVICE, SUCH AS A STI 'EZ PATH' OR WIREMOLD 'FLAMESTOPPER' OR EQUAL. THE TYPICAL STC RATING IS TO BE EQUAL TO OR GREATER THAN THE WALL PENETRATED. (AVG IS A RATING OF 44 STC PER UBC RATINGS).	
• NON-RATED PATHWAY, ALTHOUGH NOT REQUIRED TO BE FIRE-STOPPED, SHALL BE A MANUFACTURED DEVICE THAT WILL ALLOW FIRE-STOPPING TO BE INSTALLED IN THE FUTURE IF REQUIRED. (I.E. WIREMOLD 'FLAMESTOPPER' OR EQUAL).	
• A NON-RATED PATHWAY WITH ACOUSTIC PROPERTIES CAN BE FOUND IN AREAS SUCH AS CONFERENCE ROOMS, HUMAN RESOURCE OFFICES, MEDICAL EXAMINATION ROOMS ETC. THESE ROOMS REQUIRE TO LIMIT THE AMOUNT OF AMBIENT NOISE THAT CAN TRAVEL FROM ONE ROOM TO THE OTHER THROUGH THE CEILING GRID. IF THIS WALL IS PENETRATED, INSTALL A SYSTEM THAT WILL REESTABLISH THE STC RATING OF THE WALL, THE TYPICAL STC RATING IS AN AVERAGE OF 44 STC PER UBC RATINGS.	

PROJECT CODES AND STANDARDS:	
APPLICABLE PROJECT BUILDING CODES, EFFECTIVE AS OF DATE: JANUARY 1, 2026	
2025 CALIFORNIA ADMINISTRATIVE CODE (CAC)	
2025 CALIFORNIA BUILDING CODE (CBC)	
2025 CALIFORNIA ELECTRICAL CODE (CEC)	
2025 CALIFORNIA FIRE CODE (CFC)	
2025 CALIFORNIA ENERGY CODE	
2025 CALIFORNIA GREEN BUILDING STANDARDS CODE	
2025 CALIFORNIA REFERENCED STANDARDS CODE	
2025 NFPA 72: NATIONAL FIRE ALARM AND SIGNALING CODE, NATIONAL FIRE PROTECTION ASSOCIATION	
2025 NFPA 1221: NATIONAL FIRE ALARM AND SIGNALING CODE, NATIONAL FIRE PROTECTION ASSOCIATION	
APPLICABLE INDUSTRY STANDARDS, CURRENT EDITION	
TIA-568: GENERIC CABLE STANDARDS	
TIA-568-A: COMMERCIAL CABLE STANDARDS	
TIA-568-B: BALANCED TWISTED PAIR CABLING AND COMPONENTS	
TIA-568-C: OPTICAL CABLING FIBER COMPONENTS	
TIA-568-D: BROADBAND COAX CABLING AND COMPONENTS	
TIA-568-E: TELECOMMUNICATION PATHWAYS AND SPACES	
TIA-569: RESIDENTIAL TELECOMMUNICATIONS	
TIA-569.1: OPTICAL FIBER CABLE COLOR CODING	
TIA-569.2: ADMINISTRATIVE LABELING STANDARDS	
TIA-569.3: TELECOMMUNICATIONS BONDING AND GROUNDING	
TIA-569.4: TELECOMMUNICATIONS OUTSIDE PLANT	
TIA-569.5: SINGLE-MODE FIBER STANDARDS	
TIA-569.6: MULTIMODE FIBER STANDARDS	
CONTRACTOR SUBMITTALS:	
DESIGN DOCUMENTS AND SPECIFICATIONS:	
IT SHALL BE UNDERSTOOD THAT THE DRAWINGS, DETAILS, AND ONE-LINES PROVIDED WITH THE DESIGN PACKAGE ARE ILLUSTRATIVE. DATA PRESENTED ON DESIGN DRAWINGS IS AS ACCURATE AS PRELIMINARY SURVEYS AND PLANNING CAN REGULATE. ACCURACY IS NOT GUARANTEED AND FIELD VERIFICATION OF ALL DIMENSIONS, ROUTING, ETC., BY THE CONTRACTOR IS REQUIRED.	
THE CONTRACTOR IS DIRECTED TO MAKE FIELD SURVEYS AS PART OF HIS WORK PRIOR TO SUBMITTING SYSTEM LAYOUT DRAWINGS (SHOP DRAWINGS).	
DOCUMENTS ARE PROVIDED TO SHOW THE INTENT OF THE DESIGN AND SPECIFICATION AND TO ASSIST THE CONTRACTOR IN SUBMITTING A BID. THE CONTRACTOR SHALL MAKE ALLOWANCE IN THE PROPOSAL TO COVER WHATEVER WORK IS REQUIRED TO COMPLY WITH THE INTENT OF THE DESIGN AND PROVIDE A FULLY FUNCTIONING COMPLETE, OPERABLE, AND INTEGRATED SYSTEM.	
IN CASE OF DOUBT OF WORK INTENDED, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REQUEST INSTRUCTIONS FROM THE ARCHITECT, PROJECT DESIGNER, OR CLIENT PRIOR TO BID.	
INSTALLATION OF SYSTEMS INFRASTRUCTURE, CABLING, AND DEVICES SHALL NOT BE STARTED UNTIL CONTRACTOR FURNISHED SHOP DRAWINGS (IN AUTOCAD 2018) OR SIMILAR PROFESSIONAL DRAWING FORMAT) AND PRODUCT SUBMITTALS HAVE BEEN APPROVED BY THE DESIGNER AND/OR ARCHITECT AND IF (A. APPLICABLE, APPROVED BY THE DIVISION OF THE STATE ARCHITECT).	
ANY AND ALL DESIGN AND/OR INSTALLATION DISCREPANCIES/CHANGE ORDERS/WORK (INCLUDING LABOR, MATERIALS, AND SHIPPING) INCURRED WITHOUT CONTRACTOR SHOP DRAWINGS OR AFTER CONTRACTOR SHOP DRAWINGS HAVE BEEN APPROVED SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.	
ANY WORK PERFORMED WITHOUT APPROVED CONTRACTOR FURNISHED SHOP DRAWINGS AND SUBMITTALS SHALL NOT BE ALLOWED. IF WORK PERFORMED PRIOR TO APPROVE SHOP DRAWINGS, CONTRACTOR WILL DO SO AT THEIR OWN RISK.	
ORDERING AND INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL THE FOLLOWING QUALIFICATIONS, PRODUCT SUBMITTALS, AND INSTALLATION SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED.	
THE CONTRACTOR IS HEREBY ACKNOWLEDGING AND ACCEPTING ALL CONDITIONS AS NOTED BELOW BY SUBMISSION OF PROJECT BID.	
ANY DESIGN AND/OR INSTALLATION DISCREPANCIES/CHANGE ORDERS/WORK (INCLUDING LABOR, MATERIALS, SHIPPING) INCURRED BEFORE OR AFTER CONTRACTOR FURNISHED SHOP DRAWINGS HAVE BEEN APPROVED SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.	
PRODUCT DATA SUBMITTALS REQUIREMENTS:	
• INDEX OF MATERIALS: PRODUCT DESCRIPTION, MANUFACTURER, AND MODEL. ALL SPEC. SHEETS SHALL HIGHLIGHT SPECIFIC MODEL, AND ALL ACCESSORIES TO BE INSTALLED.	
• PRODUCT SUBSTITUTIONS: REASON FOR SUBSTITUTION, PRODUCT FEATURES/WARRANTY EQUAL, DESCRIPTION, MANUFACTURER, MODEL.	
• CONTRACTOR QUALIFICATIONS: C7 AND/OR C10 LICENSE AS REQUIRED BY PROJECT SPECIFICATIONS, INDUSTRY RECOGNIZED INSTALLATION AND MANUFACTURER QUALIFICATIONS SHALL BE HELD PRIOR TO SUBMISSION OF BID.	
INSTALLATION SHOP DRAWING SUBMITTALS REQUIREMENTS:	
• PROJECT NOTES: CODE AND PROJECT SPECIFIC REQUIREMENTS	
• LEGENDS/SCHEDULES: DEVICE ANNOTATIONS, INFRASTRUCTURE, CABLING, DEVICE MANUFACTURER AND MODEL, AND RELEVANT DETAIL IDENTIFICATIONS.	
• SITE PLAN: UTILITY AND SITE GROUND BOXES, FULL BOXES, CONDUITS, CABLING, AND RELEVANT DETAIL IDENTIFICATIONS.	
• FLOOR AND CEILING PLANS: EQUIPMENT ROOM(S), DEVICE LOCATIONS, DEVICE UNIQUE LABEL IDENTIFIER, MANUFACTURER AND MODEL, HORIZONTAL PATHWAYS, KEYNOTES, AND RELEVANT DETAIL IDENTIFICATIONS.	
• ONE-LINES: FULL SYSTEM CONNECTIVITY ONE-LINES SHOWING POINT-TO-POINT TERMINATIONS, SCHEDULES.	
• INSTALLATION DETAILS: UTILIZE APPROVED CONSTRUCTION DOCUMENT DETAILS. IF CONTRACTOR INSTALLATION REQUIREMENTS ARE ALTERED FROM APPROVED CONSTRUCTION DOCUMENTS THE CONTRACTOR SHALL BE REQUIRED TO DESIGN AND DRAFT ALL DETAILS FOR DESIGN REVIEW AND/OR SUBMISSION OF AHJ FOR APPROVAL.	
• AUDIO-VISUAL: CONTROL PANEL GRAPHIC USER INTERFACE (GUI) SCREEN(S) SHOT AND CONTROL FUNCTIONS.	

TECHNOLOGY SHEET INDEX	
SHEET NUMBER	SHEET NAME
T-001	TECHNOLOGY NOTES
T-002	TECHNOLOGY SYMBOL LEGEND
T-110	TECHNOLOGY FLOOR PLAN & DEMOLITION PLAN
T-111	TECHNOLOGY REFLECTED CEILING PLAN & DEMOLITION PLAN
T-601	TECHNOLOGY ONE-LINES
T-801	TECHNOLOGY DETAILS



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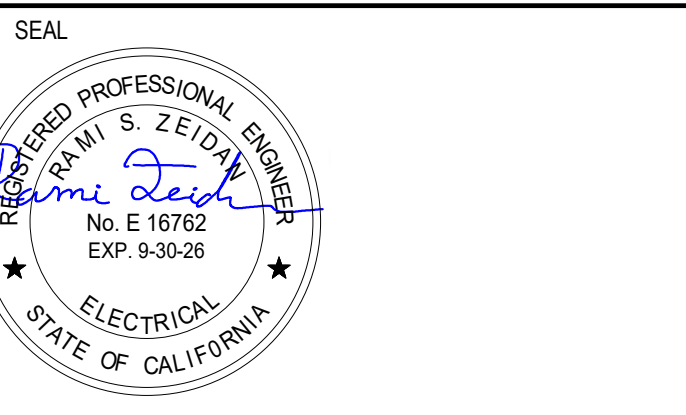
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MEP & F5 / Sustainability / CxA

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Job #: 25-2030



PROJECT

PATHWAYS SUPPORT CENTER RENOVATION

3000 CAMPUS HILL DR
LIVERMORE, CA 94551

CLIENT

CHABOT-LAS POSITAS COMMUNITY COLLEGE
DISTRICT
3000 CAMPUS HILL DRIVE LIVERMORE, CA 94551

ISSUED		
MARK	DATE	DESCRIPTION

MANAGEMENT

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TITLE

TECHNOLOGY NOTES

SHEET

T-001

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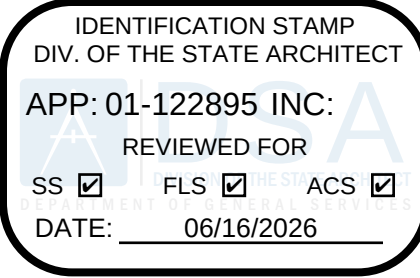
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0 1/4" 1/2" 1'

TECHNOLOGY SYMBOL LEGEND: ALL NOTES ARE TYPICAL UNLESS NOTED OTHERWISE ON PLANS AND DETAILS																				
MARK	SYMBOL	DESCRIPTION	BACK BOX	PLASTER RING	MOUNTING HEIGHT	CONDUIT	CABLING RESPONSIBILITY			CABLE MFR.	CABLE PRODUCT NUMBER	CABLE FACEPLATE ACCESSORY	DEVICE RESPONSIBILITY			DEVICE MFR.	DEVICE PRODUCT NUMBER	DEVICE ACCESSORY	MAX. LOAD	INSTALLATION NOTES
							CFCI	OFCI	OFOI				CFCI	OFCI	OFOI					
1		EXISTING BDF EQUIPMENT RACK	N/A	N/A	N/A	N/A				N/A	N/A	N/A				EXISTING	EXISTING	N/A	N/A	N/A
2		CONDUIT SLEEVES, SIZE AND QTY. AS NOTED PER PLAN	N/A	N/A	N/A	N/A	✓			N/A	N/A	N/A	✓			GENERAL	EMT / RIGID	N/A	N/A	N/A
3		DATA / VOICE WORK AREA OUTLET TYPE A - ONE VOICE / ONE DATE (1V1D) IN FOUR-PORT FACEPLATE, UNUSED PORTS BLANKED TYPE B - TWO DATA (2D) IN FOUR-PORT FACEPLATE, UNUSED PORTS BLANKED TYPE C - TWO VOICE, TWO DATA (2V2D) IN FOUR-PORT FACEPLATE TYPE D - FOUR DATA (4D) IN FOUR-PORT FACEPLATE TYPE E - ONE VOICE (1V) IN ONE PORT METAL FACEPLATE WITH KNOBS FOR HANGING WALL PHONE		N/A	N/A	1 EA. 1-1/4\"/>	✓			COMMSCOPE		JACK: MGS-600 FACEPLATE: M14L	✓			N/A	N/A	N/A	N/A	N/A
4		AUDIO-VIDEO (HDMI) / DATA (2 EA. CAT6A) INPUT PLATE		2-GANG	+18\" TO CENTER	1 EA. 2\"/>	✓			AV: AS REQ'D DATA: COMMSCOPE	AV: AS REQ'D DATA:	FACEPLATE: 80409-005-00W JACK INSERT: 1-1479504-3 JACK: MGS-600	✓			SEE ONE-LINES FOR ADDITIONAL INFORMATION		N/A	N/A	
5		AUDIO-VIDEO (HDMI) / DATA (2 EA. CAT6A) OUTPUT PLATE		2-GANG	+60\" TO CENTER	1 EA. 1-1/4\"/>	✓			AV: AS REQ'D DATA: COMMSCOPE	AV: AS REQ'D DATA:	FACEPLATE: 80409-005-00W JACK INSERT: 1-1479504-3 JACK: MGS-600	✓					N/A	N/A	
6		4K LED TV/MONITOR W/ MOUNT	N/A	N/A	N/A	N/A	✓			AS REQ'D	AS REQ'D	N/A	✓					N/A	N/A	
DETAIL IDENTIFICATION VIEW IDENTIFICATION SHEET IDENTIFICATION (1) INDICATES SAME SHEET SHEET NOTE TAG DETAIL DIVISION GROUP* (IF ONLY/SPECIFIC IDENTIFICATION (IF W/ ALPHA ID)) SHEET IDENTIFICATION *IF DETAIL DIVISION GROUP IS CALLED OUT, ALL DETAILS APPLY. TYP.																				

- NOTES:
- REFERENCE AUDIO VISUAL SPECIFICATIONS AND MANUFACTURER GUIDELINES WHEN DETERMINING BACK BOX SIZE FOR AV EQUIPMENT.
 - USE EXTENSION RINGS IF NEEDED, ON ALL LOCATIONS.
 - REFERENCE EIA/TIA STANDARDS.
 - ROUTE CONDUIT IN WALL TO NEAREST TO ACCESSIBLE CEILING SPACES.
 - PAINT INSIDE OF BACK BOX BLUE FOR PRE GYP. BOARD INSPECTION.



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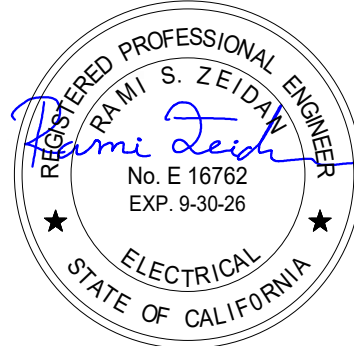


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SEAL



PROJECT

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CLIENT

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DISTRICT
3000 CAMPUS HILL DRIVE LIVERMORE, CA 94551

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MARK	DATE	DESCRIPTION
	02/19/2026	DSA SUBMITTAL
	06/02/2026	DSA BACKCHECK
	06/22/2026	ASI-1

MANAGEMENT

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TITLE

TECHNOLOGY SYMBOL
LEGEND

SHEET

T-002

0 1/4" 1/2" 1"

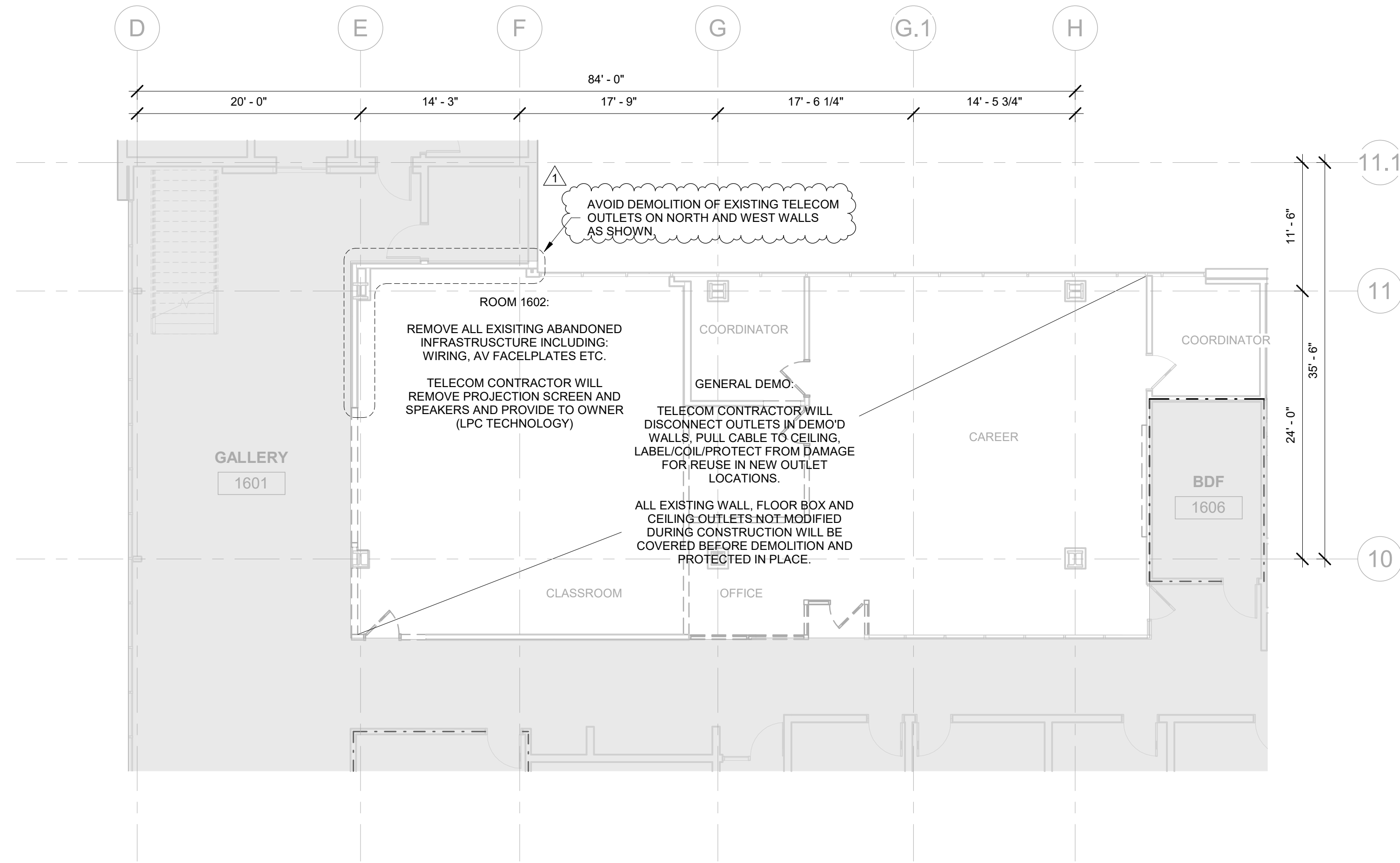
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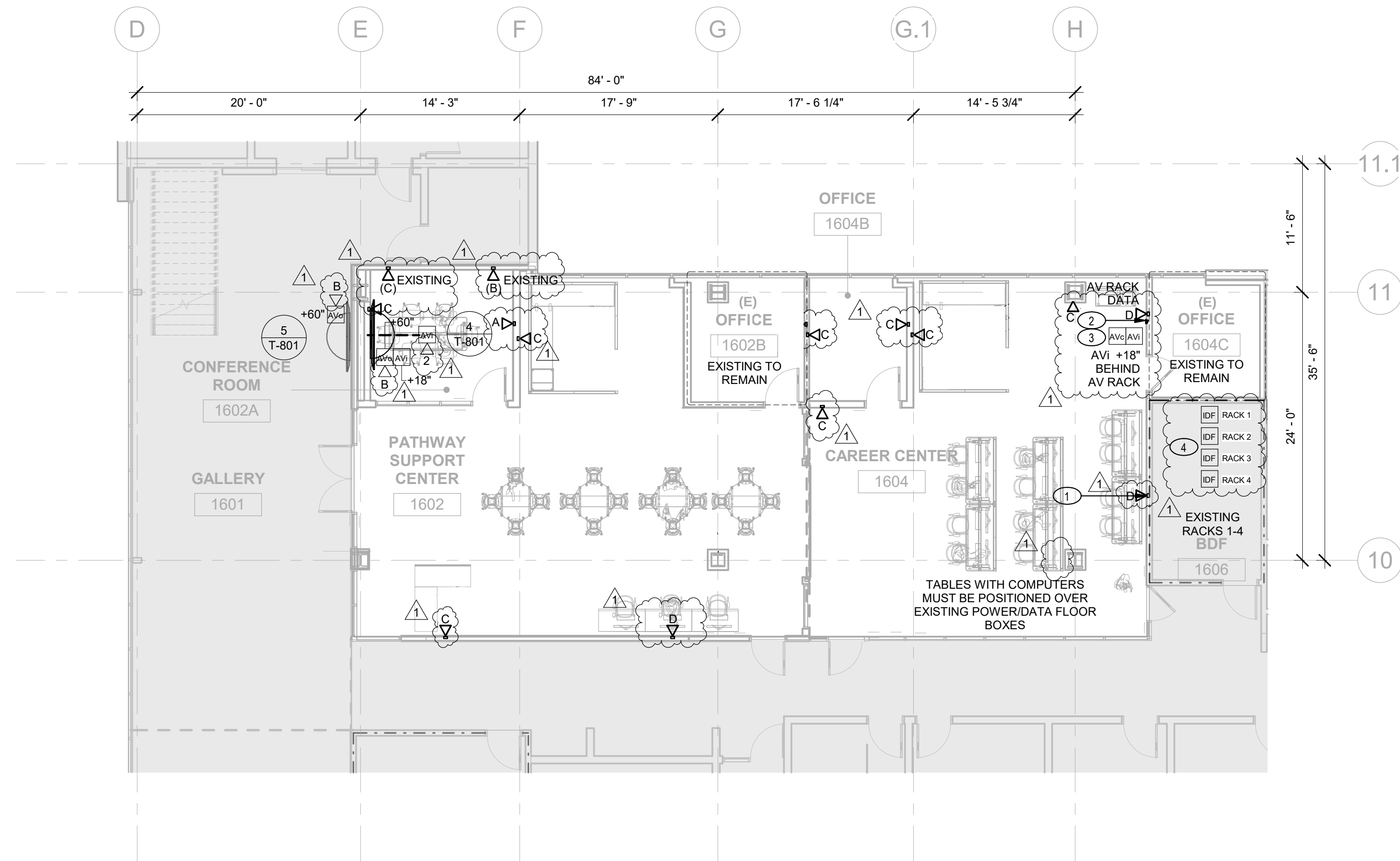
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2 TECHNOLOGY DEMOLITION FLOOR PLAN
SCALE: 1/8" = 1'-0"



1 TECHNOLOGY FLOOR PLAN
SCALE: 1/8" = 1'-0"

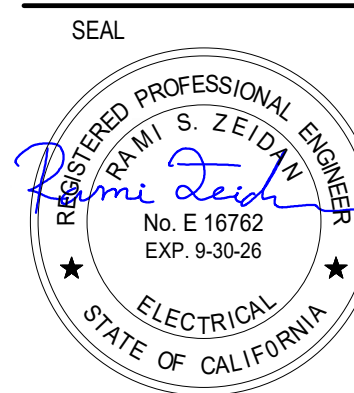


TECHNOLOGY GENERAL SHEET NOTES:

- ALL KEYNOTES ARE TYPICAL UNLESS STATED OTHERWISE.
- REFER TO ARCHITECTURAL DRAWINGS FOR ALL BUILDING PLANS AND DIMENSIONS.
- REFER TO ELECTRICAL DRAWINGS FOR ALL TECHNOLOGY POWER CIRCUIT REQUIREMENTS.
- ALL EQUIPMENT SHOWN ON CONSTRUCTION DOCUMENTS SHALL BE NEW, CONTRACTOR FURNISHED/CONTRACTOR INSTALLED UNLESS SPECIFIED ON DRAWINGS AND/OR SCHEDULES.
- ALL TECHNOLOGY SYSTEMS MUD RINGS SHALL BE PAINTED BLUE FOR A PRE-DRYWALL / FINISH INSPECTION OF IN-WALL INFRASTRUCTURE.
- ALL EXPOSED CONDUITS SHALL BE PRIMED WHITE AND PAINTED TO MATCH SURROUNDING AREA.
- NETWORK STATION CABLING SHALL BE TERMINATED IN PATCH PANEL(S) IN SEQUENTIAL ORDER OF ROOM NUMBER. DROP ID. CABLES SHALL BE MACHINE LABELED AT PATCH PANEL FACE, AND AT CATEGORY CABLE (BOTH ENDS AS SHOWN ON DETAILS/SPECIFICATIONS).
- ALL EXISTING TELECOM OUTLETS IN PROJECT SCOPE ROOMS WILL BE COVERED BEFORE DEMOLITION TO PROTECT FROM CONSTRUCTION.
- BEFORE DEMOLITION, TELECOM CONTRACTOR WILL DISCONNECT, LABEL AND PULL CABLING TO CEILING FOR OUTLETS ON REMOVED WALLS, COIL AND LABEL. CABLING FOR INSTALLATION IN NEW LOCATIONS. PRESERVE FACEPLATES AND CABLING MATERIALS FOR REUSE.
- CONTRACTOR TO DISCONNECT CABLING TO EXISTING AV CABINET. PRESERVE CABINET WITHOUT DAMAGE FOR REINSTALLATION IN NEW LOCATION. ROUTE CABLING FROM EXISTING AV CABINET TO CEILING FOR REROUTING TO NEW LOCATION.

KEY NOTES

- NEW WALL NETWORK DATA / VOICE WORK AREA OUTLET (RJ45-F). PROVIDE JACK QTY. AS NOTED ON PLANS. INSTALL HORIZONTAL PATHWAYS, CATEGORY CABLING, JACKS, PATCH PANEL AT EXISTING BDF RACK 1 LOCATED IN ROOM 1606. ALL ASSOCIATED EQUIPMENT AND CABLE LABELS, AND TEST PERMANENT LINK. CABLES SHALL MAINTAIN PROPER BEND RADIUS AND BE KINK-FREE.
- RELOCATED EXISTING AUDIO-VISUAL INPUT PLATE. INSTALL HORIZONTAL PATHWAYS, INPUT PLATE CABLING, INPUT PLATE, ALL ASSOCIATED EQUIPMENT AND CABLE LABELS, CONFIGURE, AND TEST.
- RELOCATED EXISTING AUDIO-VISUAL CONTROL PANEL. INSTALL HORIZONTAL PATHWAYS, CONTROL PANEL CABLING, CONTROL PANEL, ALL ASSOCIATED EQUIPMENT AND CABLE LABELS, CONFIGURE, AND TEST.
- EXISTING BDF EQUIPMENT ROOM.



PROJECT
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RENOVATION

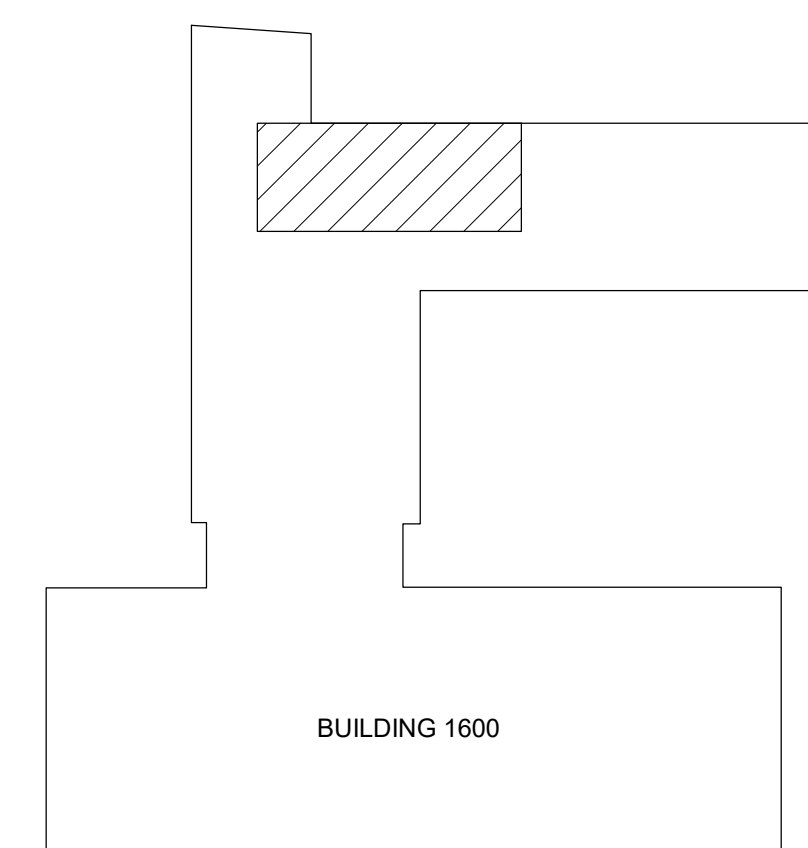
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	06/22/2026	ASI-1

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KEY PLAN



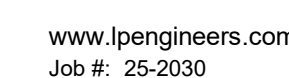
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TECHNOLOGY FLOOR
PLAN & DEMOLITION
PLAN

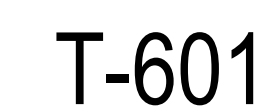
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T-110



KEY NOTES

- 1 NEW 3 EA. 2" CONDUIT SLEEVES. CAULK AND SEAL ALL SLEEVE ROUGH-GAPS, AND OPENINGS IN ACCORDANCE WITH REQUIRED FIRE RATINGS.
- 2 EXISTING WIRE MESH CABLE BASKET TO REMAIN. DO NOT DISTURB.
- 3 EXISTING LARGE FORMAT PROJECTOR WITH SPECIALTY LENS. INSTALL NEW AV CABLE TO RELOCATED AV EQUIPMENT RACK.
- 4 EXISTING MOTORIZED TENSIONED PROJECTION SCREEN.
- 5 EXISTING BDF EQUIPMENT ROOM.



ASSISTED LISTENING EQUIPMENT SCHEDULE PER ROOM

0 1/4" 1/2" 1" 2" 3" 4" 5" 6" 7" 8" 9" 10' 11' 12'

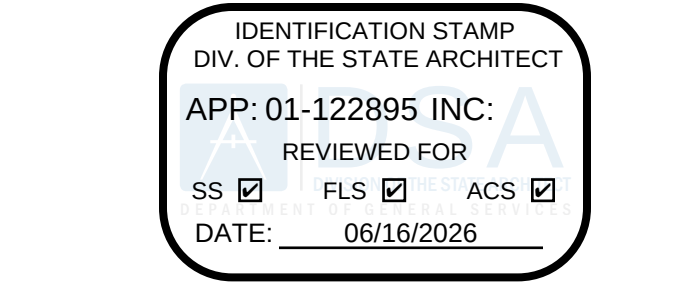
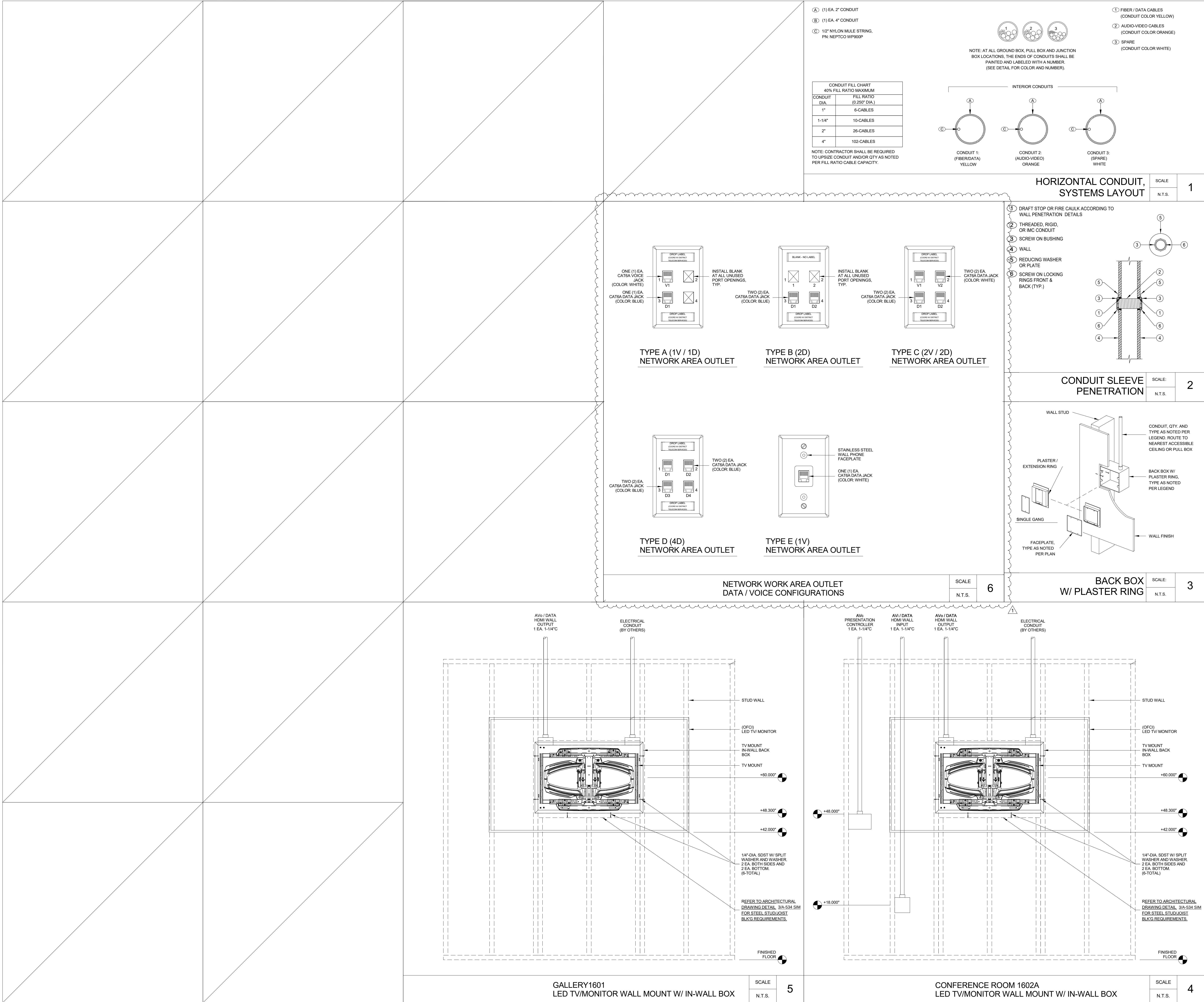
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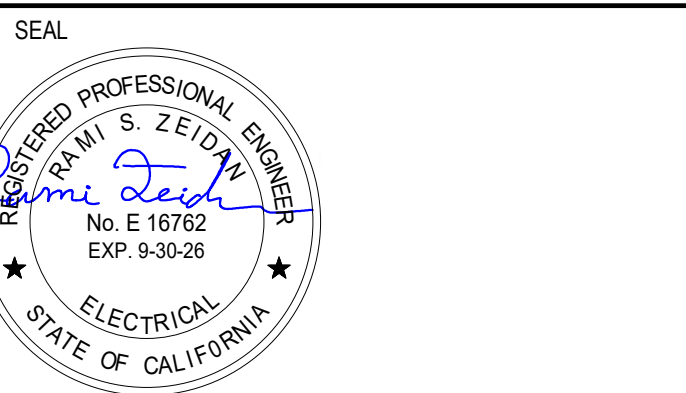
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	06/22/2026	ASI-1

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TITLE
TECHNOLOGY DETAILS

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