



MORETO MATHISON & ASSOCIATES  
A R C H I T E C T S  
449 W FOOTHILL BLVD  
SUITE 281, GLENDORA CA 91741  
(626) 594-0307

CONSULTANT



CLIENT



RANCHO SANTIAGO  
COMMUNITY COLLEGE DISTRICT  
**VL107**  
**AP STUDENT CENTER**  
**RECONFIGURATION**

SANTA ANA COLLEGE  
1530 W. 17TH ST  
SANTA ANA, CA 92706

**100% CD**

## REVISIONS






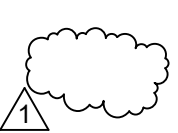
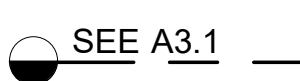

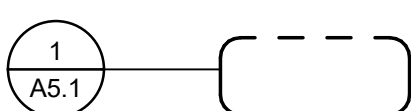
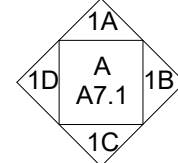
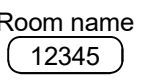


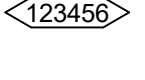

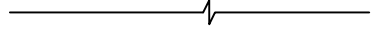
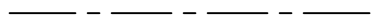


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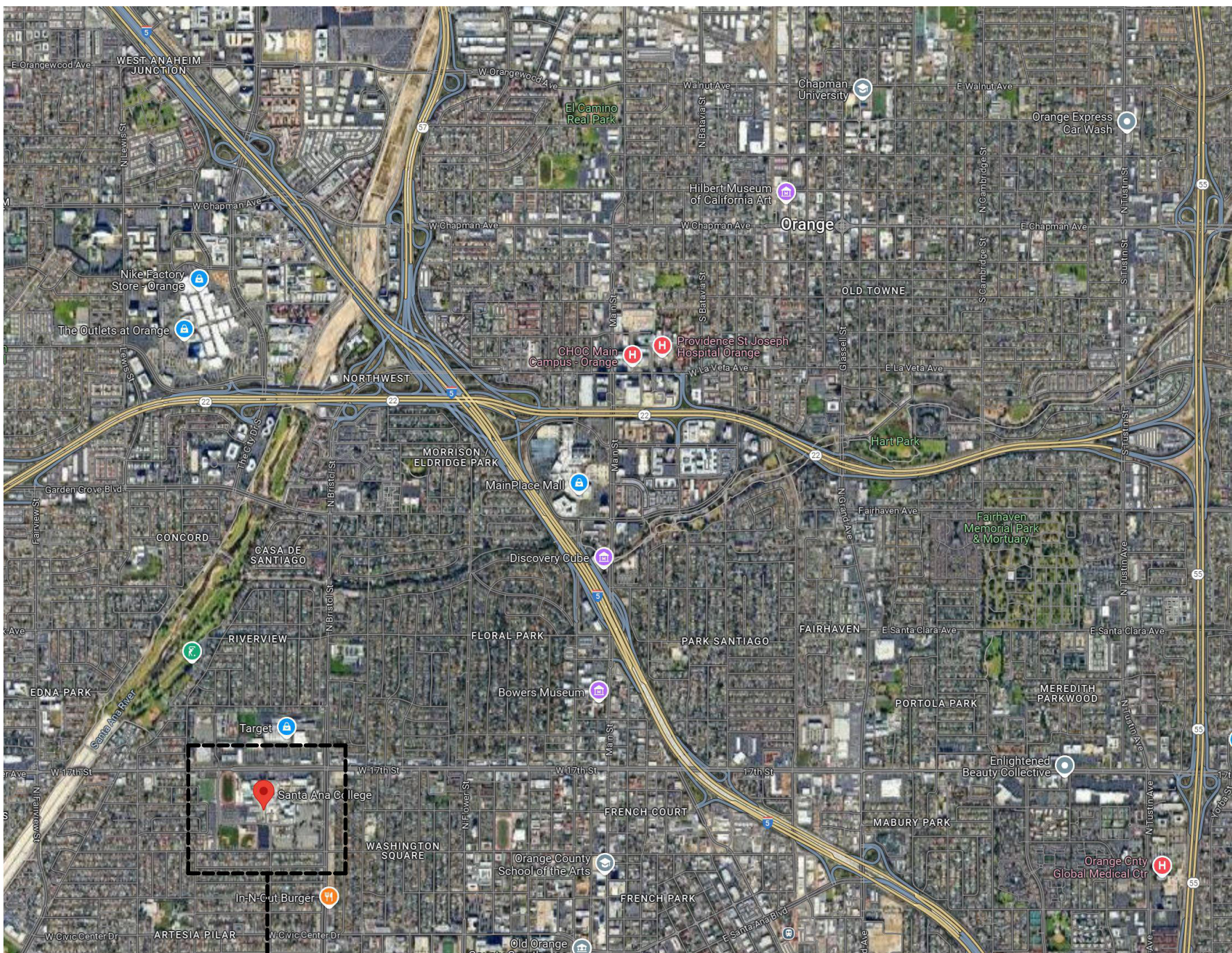
MMA NO	25801
DATE:	05/12/2025
DRAWN	WJ
CHECKED	DM

# INDEX OF DRAWINGS, NOTES, CODE ANALYSIS, MATERIALS

## G0.01

# CONSTRUCTION DOCUMENTS

ARCHITECTURAL MATERIALS	ARCHITECTURAL MATERIALS	ARCHITECTURAL MATERIALS	GENERAL ENERGY NOTES
                 	<p>GRID LINE</p> <p>DOOR IDENTIFICATION</p> <p>RELITE IDENTIFICATION</p> <p>WINDOW TYPE</p> <p>LOUVER TYPE</p> <p>REVISION</p> <p>MATCH LINE Shaded area is side considered</p> <p>WORK POINT, DATUM POINT, CONTROL POINT</p> <p>DETAIL Upper mark denotes drawing number Lower mark denotes sheet</p> <p>PARTIAL BUILDING SECTION</p> <p>BUILDING CROSS SECTION</p> <p>INTERIOR ELEVATION Elevation number denoted in arrow Sheet number denoted in box</p> <p>ROOM IDENTIFICATION</p> <p>CODED NOTE</p> <p>WALL TYPE</p> <p>EQUIPMENT IDENTIFICATION</p> <p>DASHED LINE Used to denote items hidden, overhead, not in contract (NIC), or to be removed</p> <p>BREAK LINE Material to continue</p> <p>CENTER LINE, GRID LINES</p> <p>PROPERTY LINE</p>	<p>DETAIL INDICATIONS</p> <p>ACOUSTIC TILE OR BOARD</p> <p>ASPHALTIC CONCRETE PAVING</p> <p>ROOFING</p> <p>BRICK</p> <p>CONCRETE</p> <p>PRECAST CONCRETE</p> <p>CONCRETE MASONRY UNIT</p> <p>EARTH / FINISH GRADE</p> <p>GLASS</p> <p>GRAVEL</p> <p>GYPSUM BOARD</p> <p>INSULATION, BATT</p> <p>INSULATION, RIGID</p> <p>MORTAR, PLASTER, SAND</p> <p>MDF</p> <p>PLYWOOD</p> <p>WOOD, FINISH</p> <p>WOOD FRAMING Continuous member</p> <p>WOOD FRAMING Interrupted member</p> <p>PLAN INDICATIONS</p> <p>STUD WALL</p> <p>BRICK</p> <p>CONCRETE MASONRY UNIT</p> <p>CONCRETE</p>	<p>Application No.: 04-124525</p> <p>File No.: 30-C2</p> <p>The drawings identified as follows:</p> <p><input checked="" type="checkbox"/> All drawing sheets included in this set not bearing my stamp and signature.</p> <p><input type="checkbox"/> Drawing sheets denoted in the sheet index as follows: _____</p> <p><input type="checkbox"/> Drawing sheets included under the following P.C. approval(s): _____</p> <p>have been prepared by other design professionals or consultants who are licensed and authorized to prepare such drawings (plans) in this state. They have been examined by me for:</p> <ol style="list-style-type: none"> <li>Design intent and appear to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me, and</li> <li>Coordination with my drawings (plans) and specifications and are acceptable for incorporation into the construction of this project.</li> </ol> <p>Per Title 24, Part 1, Section 4-316(b): This Statement of General Conformance shall not be construed as relieving me of my rights, duties, and responsibilities under Sections 17302 and 17130 of the Education Code and Sections 4-336, 4-341 and 4-344 of Title 24, Part 1.</p> <p> 10/24/2025</p> <p>Signature Date</p> <p>DAVID MATHISON C-27783 02/28/2027</p> <p>Printed Name License Number Expiration Date</p> <p>GENERAL ENERGY NOTES</p> <ol style="list-style-type: none"> <li>THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPE, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALL EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.</li> <li>LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).</li> <li>MECHANICAL SYSTEM ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT.</li> <li>ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT.</li> <li>A LISTING OF CERTIFIED ATT CAN BE FOUND AT: <a href="http://www.energy.ca.gov/programs-and-topics/programs/acceptance-test-technician-certification-provider-program/acceptance">HTTP://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE</a></li> <li>THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.</li> <li>PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.</li> </ol>



N  
VICINITY MAP  
Scale: NTS

LIST OF APPLICABLE CODES	BUILDING CODE ANALYSIS
2025 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.	<b>A. CONSTRUCTION TYPE:</b> TYPE V-B  <b>B. USE AND OCCUPANCY:</b> GROUP B - OFFICES AND CLASSROOMS  <b>C. NUMBER OF STORIES/HEIGHT:</b> SINGLE STORY / 14'-7"  <b>D. FIRE SPRINKLERS:</b> NONE  <b>E. FIRE ALARM:</b> MANUAL  <b>F. ALLOWABLE AREA:</b> CBC TABLE 506.2.1: $A_{\text{a}} = A_t + (N \times I_e) : A_{\text{a}} = 9,000 + (9,000 \times 0) = 9,000$ <b>ALLOWABLE AREA</b> AREA OF WORK: 1,820 SF  <b>G. FIRE RESISTANCE RATING REQUIREMENTS PER CBC TABLE 601:</b> PRIMARY STRUCTURAL FRAME: 0 BEARING WALLS 0 NONBEARING WALLS 0 ROOF CONSTRUCTION 0
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.	
(2021 INTERNATIONAL BUILDING CODE WITH CALIFORNIA AMENDMENTS)	
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.	
(2021 NATIONAL ELECTRICAL CODE WITH CALIFORNIA AMENDMENTS)	
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.	
(2021 UNIFORM MECHANICAL CODE WITH CALIFORNIA AMENDMENTS)	
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 C.C.R.	
(2021 INTERNATIONAL FIRE CODE WITH CALIFORNIA AMENDMENTS)	
2022 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.	
2022 CALIFORNIA ENERGY CODE (CEC)	
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN	
TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS	

## LIST OF APPLICABLE STANDARDS

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (SFM) CHAPTER 35 AND CFC CHAPTER 80

SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA  
AMENDMENTS TO THE NFPA STANDARDS

## SCOPE OF WORK

RENOVATION OF EXISTING PORTABLE VL107 BUILDING INTERIORS; DEMOLISH ONE OFFICE AND CONSTRUCT TWO NEW OFFICES. SCOPE OF WORK INCLUDES CONSTRUCTION OF WALLS, DOORS, WINDOWS, FLOORING FINISHES, AND MODIFICATION OF EXISTING SUSPENDED ACT CEILING UNDER THE PROVISIONS OF DSA IR 25-2. ELECTRICAL WORK INCLUDES POWER, DATA, AND LIGHTING MODIFICATIONS. MECHANICAL WORK INCLUDES HVAC MODIFICATIONS

<b>A. CONSTRUCTION TYPE:</b> TYPE V-B	
<b>B. USE AND OCCUPANCY:</b> GROUP B - OFFICES AND CLASSROOMS	
<b>C. NUMBER OF STORIES/HEIGHT:</b> SINGLE STORY / 14'-7"	
<b>D. FIRE SPRINKLERS:</b> NONE	
<b>E. FIRE ALARM:</b> MANUAL	
<b>F. ALLOWABLE AREA:</b> CBC TABLE 506.2.1: Aa=At + (Ns x Is) : Aa=9,000 + (9,000 x 0) = <b>9,000SF ALLOWABLE AREA</b> AREA OF WORK: 1,820 SF	
<b>G. FIRE RESISTANCE RATING REQUIREMENTS PER CBC TABLE 601:</b>	
PRIMARY STRUCTURAL FRAME:	0
BEARING WALLS	0
NONBEARING WALLS	0
ROOF CONSTRUCTION	0
<b>H. OTHER FIRE PROTECTION SYSTEM:</b> NONE	
<b>I. SMOKE CONTROL SYSTEM:</b> NONE	
<b>J. HIGH HAZARD SEVERITY ZONE:</b> NONE	
<b>K. SEISMIC JOINTS:</b> NONE	
<b>L. EMERGENCY RESPONDER RADIO COVERAGE:</b> NO	
<b>M. OCCUPANT LOAD FOR ENTIRE BUILDING:</b> 79 OCCUPANTS	


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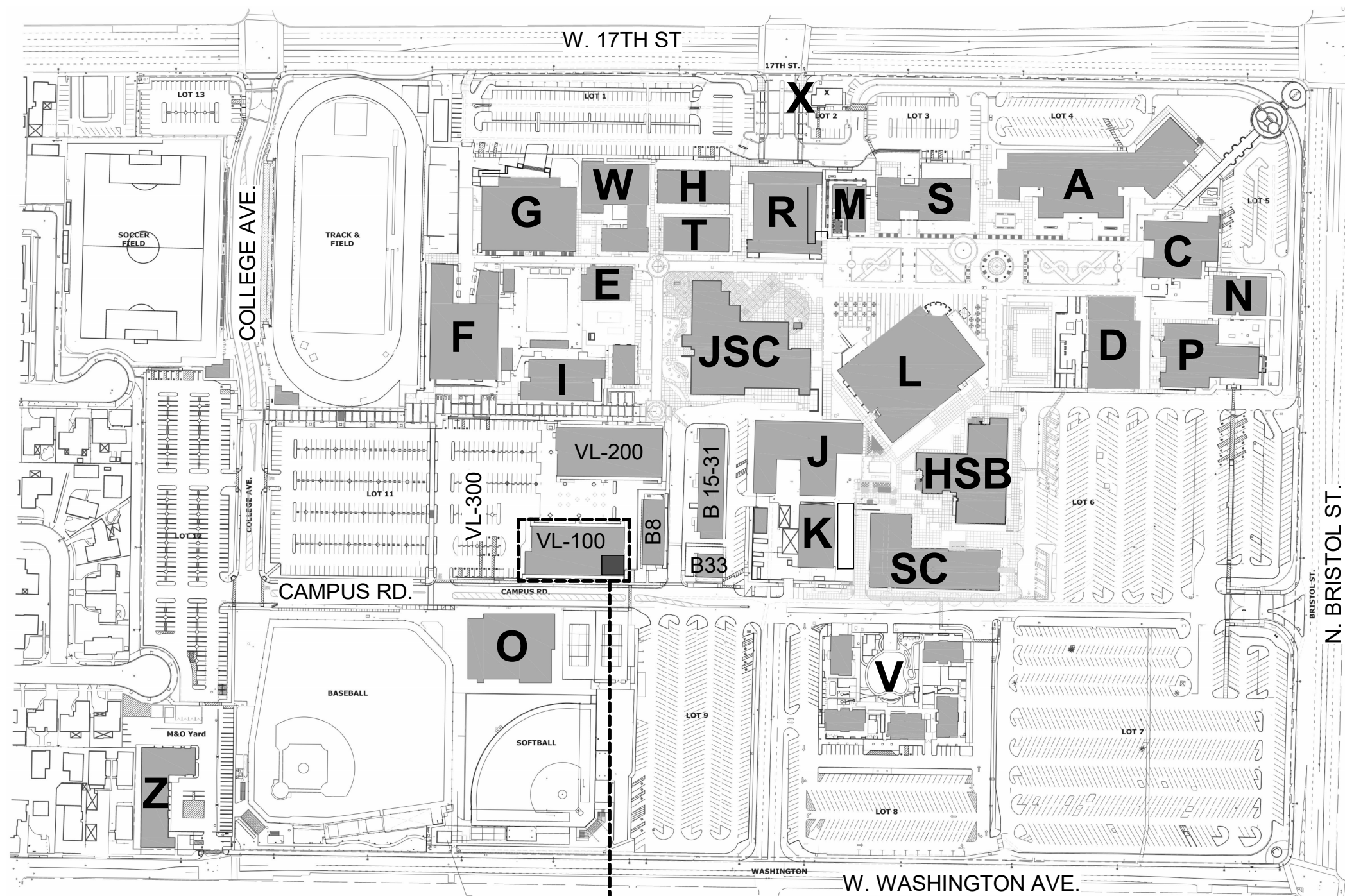
PROJECT TEAM	
<b>OWNER</b>  RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT 2323 N BROADWAY SANTA ANA, CA 92706 (714) 480-7510  CARRI MATSUMOTO, ASSISTANT VICE CHANCELLOR	<b>ARCHITECT</b>  MORETO MATHISON & ASSOCIATES 449 W. FOOTHILL BLVD., #281 GLENDFORA, CA 91741 (626) 594-0307  DAVID MATHISON, ARCHITECT

**ELECTRICAL, MECHANICAL**

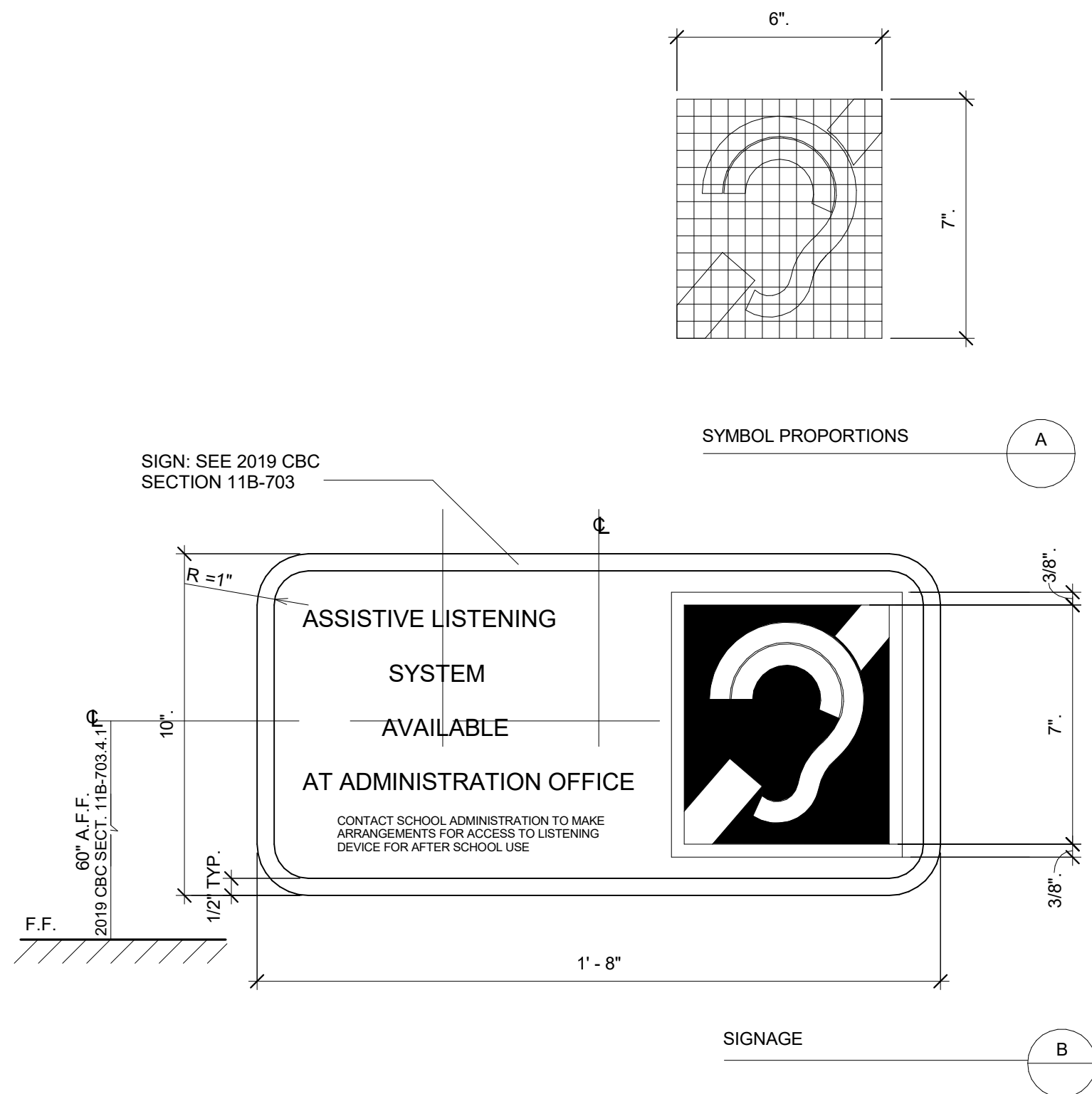
HARITON ENGINEERING  
 456 E ORANGE GROVE BLVD #301  
 PASADENA, CA 91104  
 (626) 449-4223

CELESTIN HARITON, PE LEED AP



**CAMPUS PLAN**  
Scale: NTS

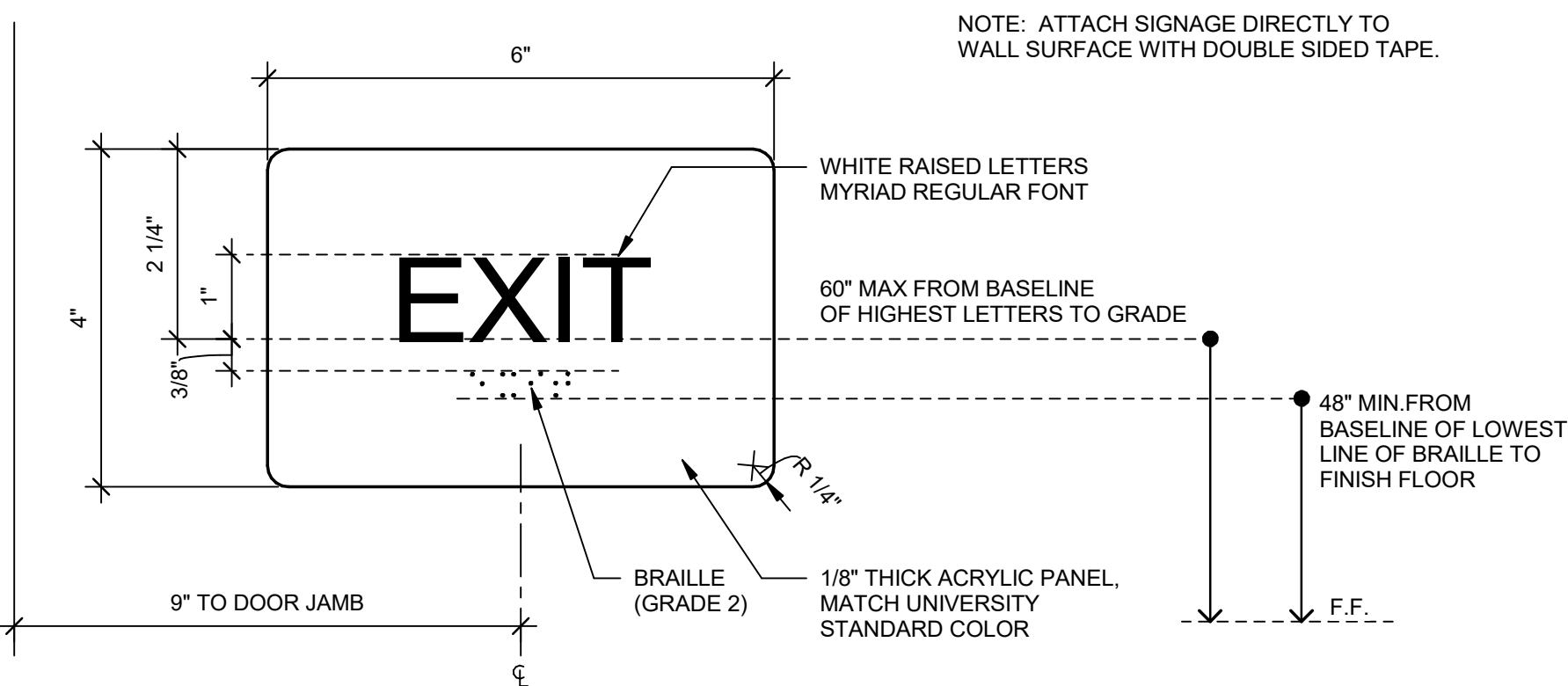




- NOTE:**
1. PROVIDE ASSISTIVE LISTENING SYSTEMS IN ASSEMBLY AREAS, AND CONFERENCE AND MEETING ROOMS NOTED ON THE PLANS, PER 2022 CBC SECTION 11B-706
  2. THE ASSISTIVE LISTENING SYSTEM WILL BE OF PORTABLE UNITS IF IN AREA WITH NO FIXED SEATING OF WITH LESS THAN 50 SEATS.
  3. PORTABLE ASSISTIVE LISTENING SYSTEM IS NOT IN CONTRACT AND TO BE PROVIDED BY THE OWNER.
  4. MINIMUM REQUIRED NUMBER OF RECEIVERS IS 4 % OF TOTAL SEATING OR OCCUPANT LOAD, AND IN NO CASE BE LESS THAN TWO.
- FOR SPACE VL205-1C, CONFERENCE AREA:  
13 OCCUPANCY X 4% = 0.52; 2 REQ. MIN.
5. PROVIDE ASSISTIVE LISTENING SYSTEM SIGNAGE AT ROOMS LISTED ABOVE. LOCATION PER PLANS.
  6. ASSISTIVE LISTENING DEVICES SHALL BE KEPT LOCKED UP, AND PRIOR ARRANGEMENTS SHALL BE MADE FOR EVENTS AFTER NORMAL BUSINESS HOURS W/ ADMINISTRATION OFFICE.

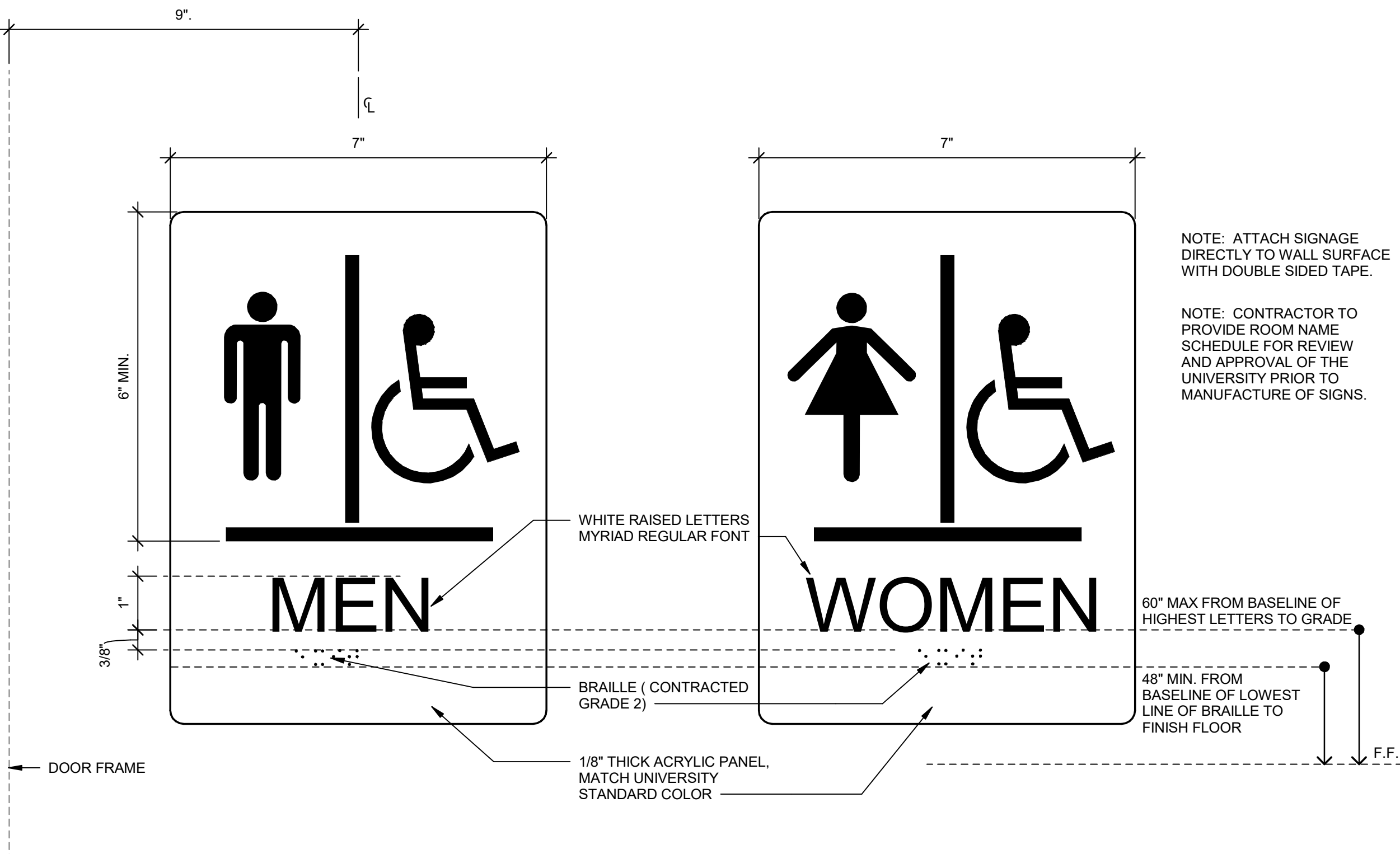
#### 5 ASSISTIVE LISTENING SYSTEM SIGN

Scale: 3" = 1'-0"



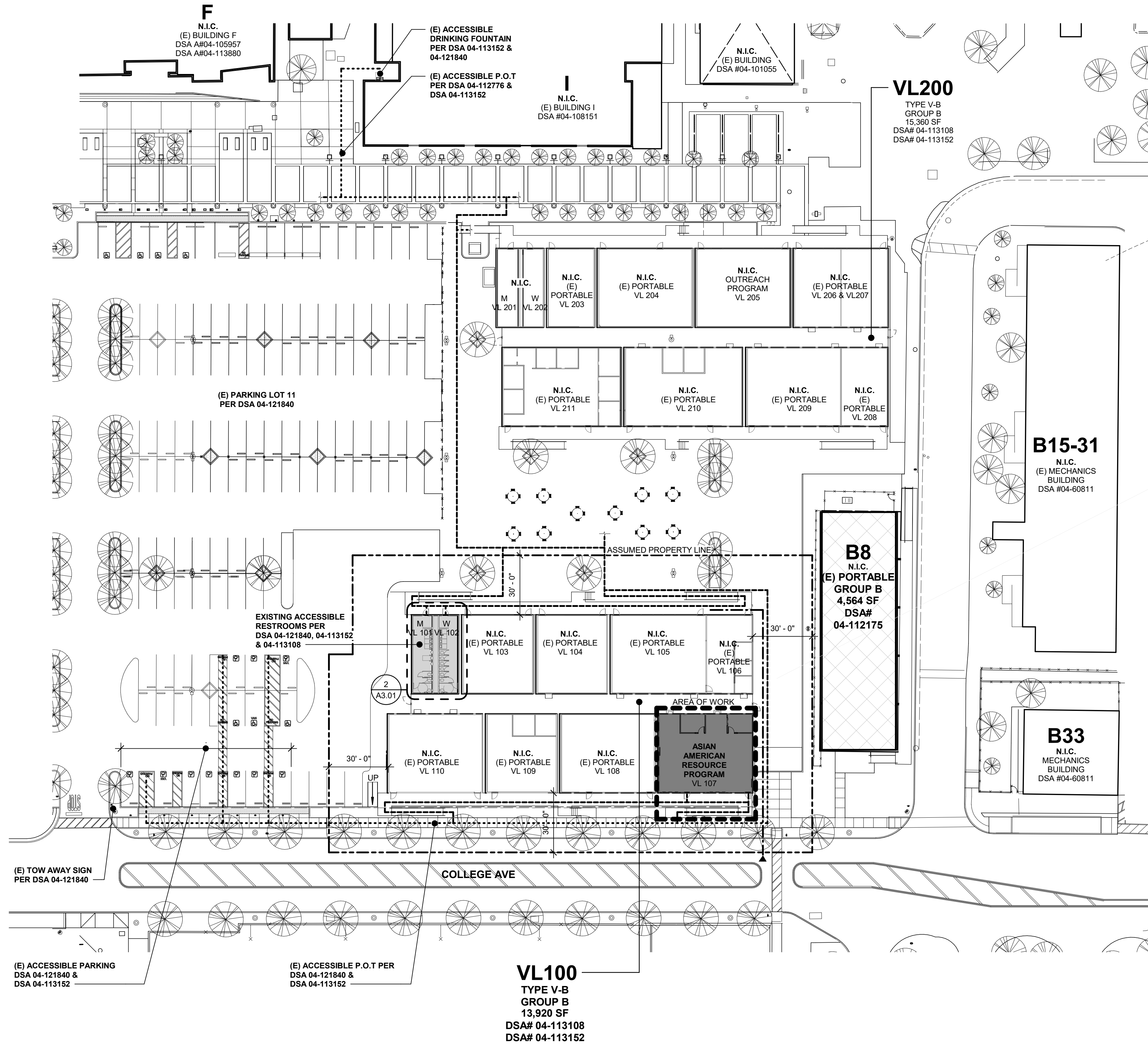
#### 4 EXIT SIGN

Scale: 6" = 1'-0"



#### 3 RESTROOM IDENTIFICATION SIGN

Scale: 6" = 1'-0"



#### 1 ENLARGED SITE PLAN - ACCESSIBILITY

Scale: 1" = 30'-0"



#### 2 RESTROOM DOOR MOUNTED SIGN

Scale: 1 1/2" = 1'-0"

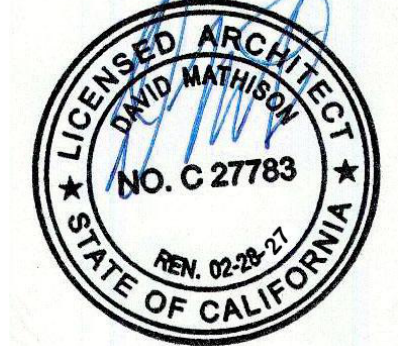
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DIV. OF THE STATE ARCHITECT  
APP: 04-124525 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 12/03/2025



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STAMP



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1530 W. 17TH ST  
SANTA ANA, CA 92706

100% CD

#### REVISIONS

DSA Back Check 01	08/05/2025
DSA Back Check 02	10/24/2025

MMA NO	25801
DATE:	05/12/2025
DRAWN	WJ
CHECKED	JM

ACCESSIBILITY  
SITE PLAN

G1.01





EXISTING CAMPUS FIRE ACCESS LANE PER DSA 04-113152, 04-112776  
20'-0" MINIMUM WIDTH.

**FH** EXISTING FIRE HYDRANT  
**---** ASSUMED PROPERTY LINE

 FIRE ACCESS ROUTE 150' MAX HOSE PULL PER DSA 04-121840

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 04-124525 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 12/03/2025



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## REVISIONS

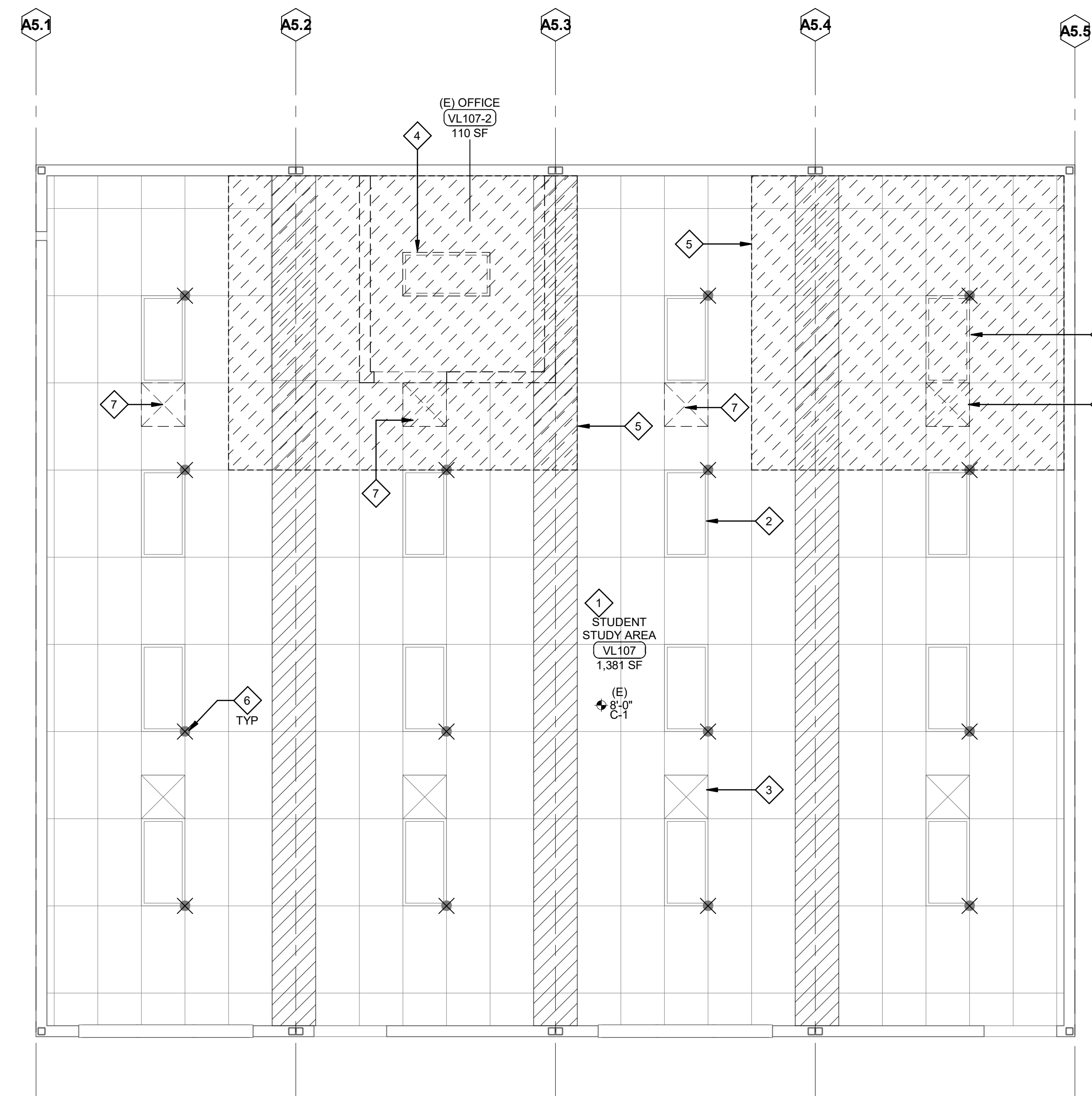
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MMA NO	25801
DATE:	05/12/2025
DRAWN	WJ
CHECKED	JM

## FIRE ACCESS SITE PLAN

## G1.02





#### DEMOLITION REFLECTED CEILING PLAN CODED NOTES

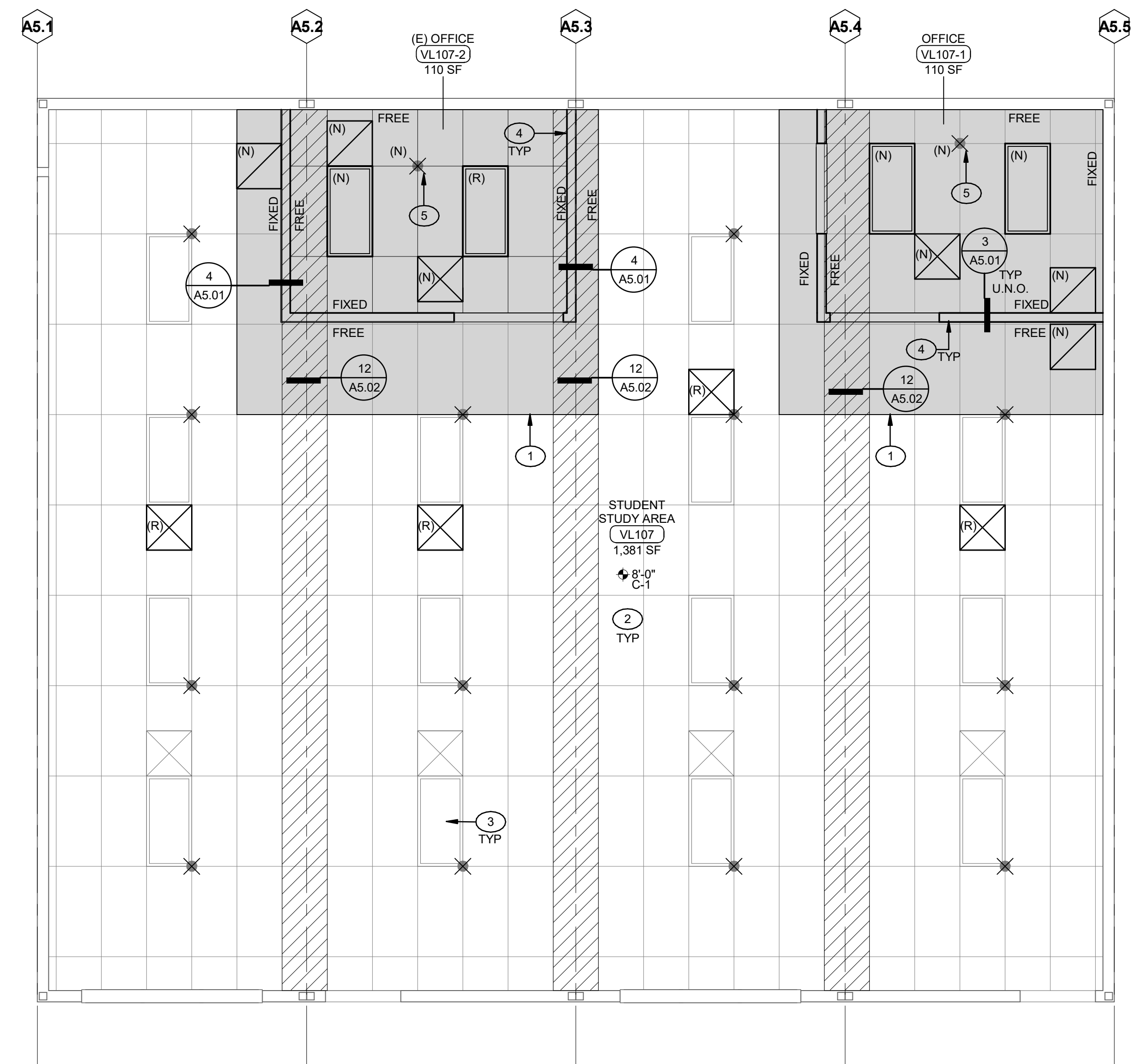
- EXISTING SUSPENDED CEILING TO REMAIN
- EXISTING LIGHT FIXTURE TO REMAIN; REMOVE LIGHT BULBS. REPLACE BULBS PER RENOVATION PLAN
- EXISTING HVAC SUPPLY/RETURN AIR GRILLES TO REMAIN, U.N.O.
- REMOVE LIGHTING FIXTURE, SALVAGE FOR RE-USE PER RENOVATION PLAN
- REMOVE CEILING TILES PORTION OF SUSPENDED GRID AS REQ'D FOR CONSTRUCTION OF NEW WALLS. SEE RENOVATION REFLECTED CEILING PLAN FOR MODIFICATIONS TO EXISTING CEILING GRID.
- LOCATION OF EXISTING COMPRESSION STRUT AND SPLAY WIRES @ 144 SF TO REMAIN (PER DSA #04-113108 & #04-113152)
- REMOVE HVAC SUPPLY/RETURN AIR GRILLES, SALVAGE FOR RE-USE PER RENOVATION PLAN

#### DEMOLITION RCP LEGEND

- AREA OF REMOVAL
- ITEMS TO BE REMOVED
- DEMOLITION PLAN CODED NOTE
- LOCATION OF EXISTING COMPRESSION STRUT AND SPLAY WIRES @ 144 SF TO REMAIN (PER DSA #04-113108 & #04-113152)
- (E) GRID AT MODLINE

### 3 REFLECTED CEILING PLAN - DEMOLITION

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



#### GENERAL RCP NOTES

- CEILING HEIGHT TO BE MEASURED FROM FINISH FLOOR LEVEL OF THE ROOM OR THE AREA WHERE CEILING IS IN
- EXISTING CEILING TO REMAIN. VERIFY COMPLIANCE WITH DETAILS ON A5.02 SHOWING COMPRESSION STRUT LOCATION, WALL TERMINATION, FIXTURE SUPPORT AND HANGER WIRES.

#### REFLECTED CEILING PLAN CODED NOTES

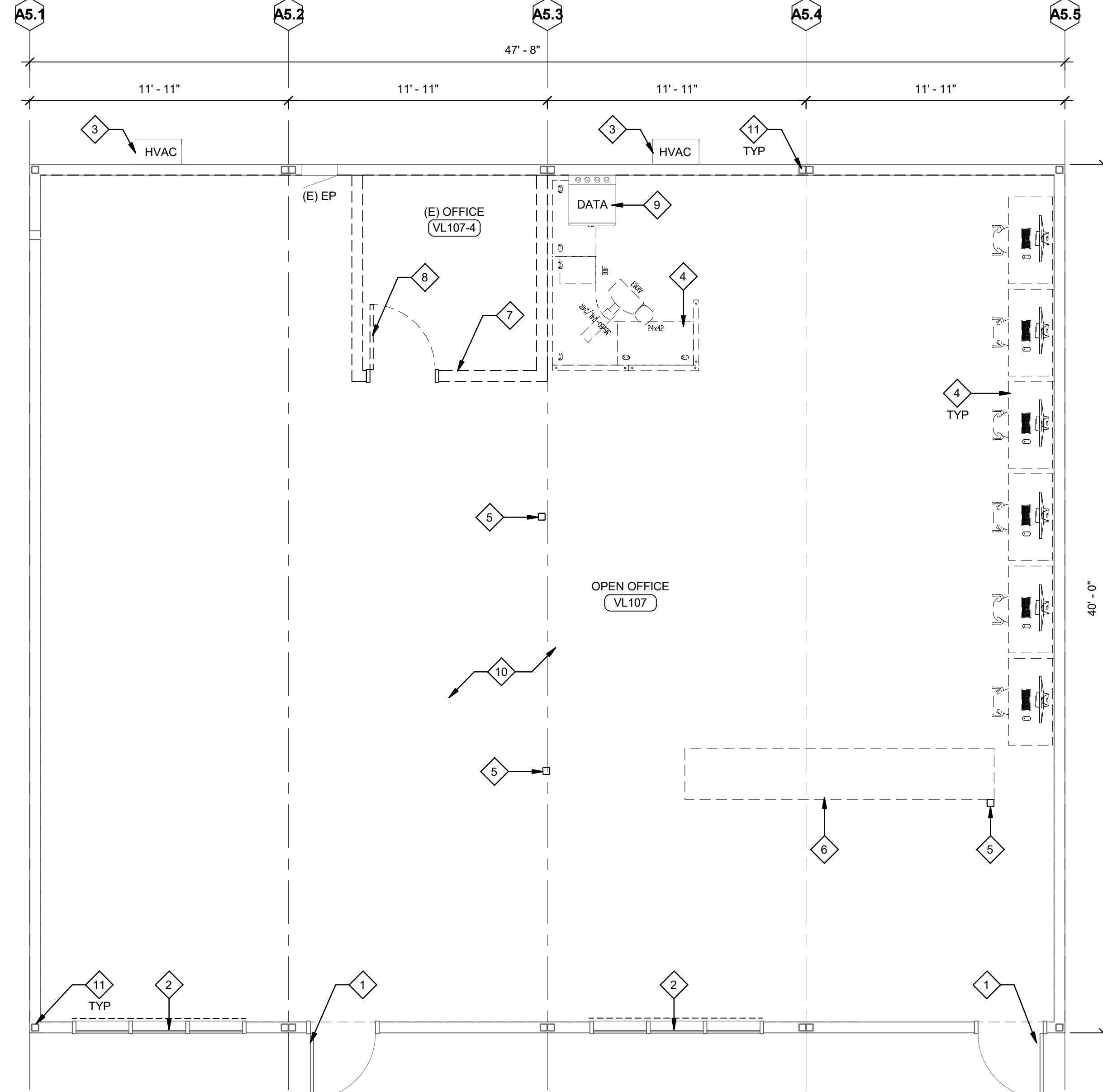
- REPAIR EXISTING SUSPENDED CEILING AFTER RECONSTRUCTION OF WALL TO ACCOMMODATE REMODEL
- REPLACE DAMAGED / BROKEN CEILING TILES AS OCCURS; PROVIDE ALLOWANCE TO REPLACE 30% OF TILES
- REPLACE LIGHT BULBS IN EXISTING FIXTURES WITH LED (K-4100)
- PROVIDE ANGLE AT WALL WHERE NEW WALL OCCURS AT EXISTING CEILING GRID PER DETAILS 2/A5.02 & 3/A5.02
- PROVIDE COMPRESSION STRUT PER DETAIL 7/A5.02

#### REFLECTED CEILING PLAN LEGEND

- EXISTING PARTITION TO REMAIN
- NEW PARTITION PER WALL TYPE, SEE SHEET A5.01 FOR WALL TYPES
- CEILING HEIGHT (HEIGHTS INDICATED ARE RELATIVE TO FINISH FLOOR LEVEL) C-1 = 2X4 SUSPENDED ACOUSTICAL CEILING
- (E) LIGHT FIXTURES
- (E) SUPPLY DIFFUSERS
- (E) RETURN AIR REGISTER OR EXHAUST FAN
- (R) RELOCATION OF SALVAGED ITEM
- (N) LOCATION OF NEW ITEM TO MATCH EXISTING
- UNATTACHED CEILING GRID PER DETAIL 3/A5.02
- ATTACHED CEILING GRID PER DETAIL 2/A5.02

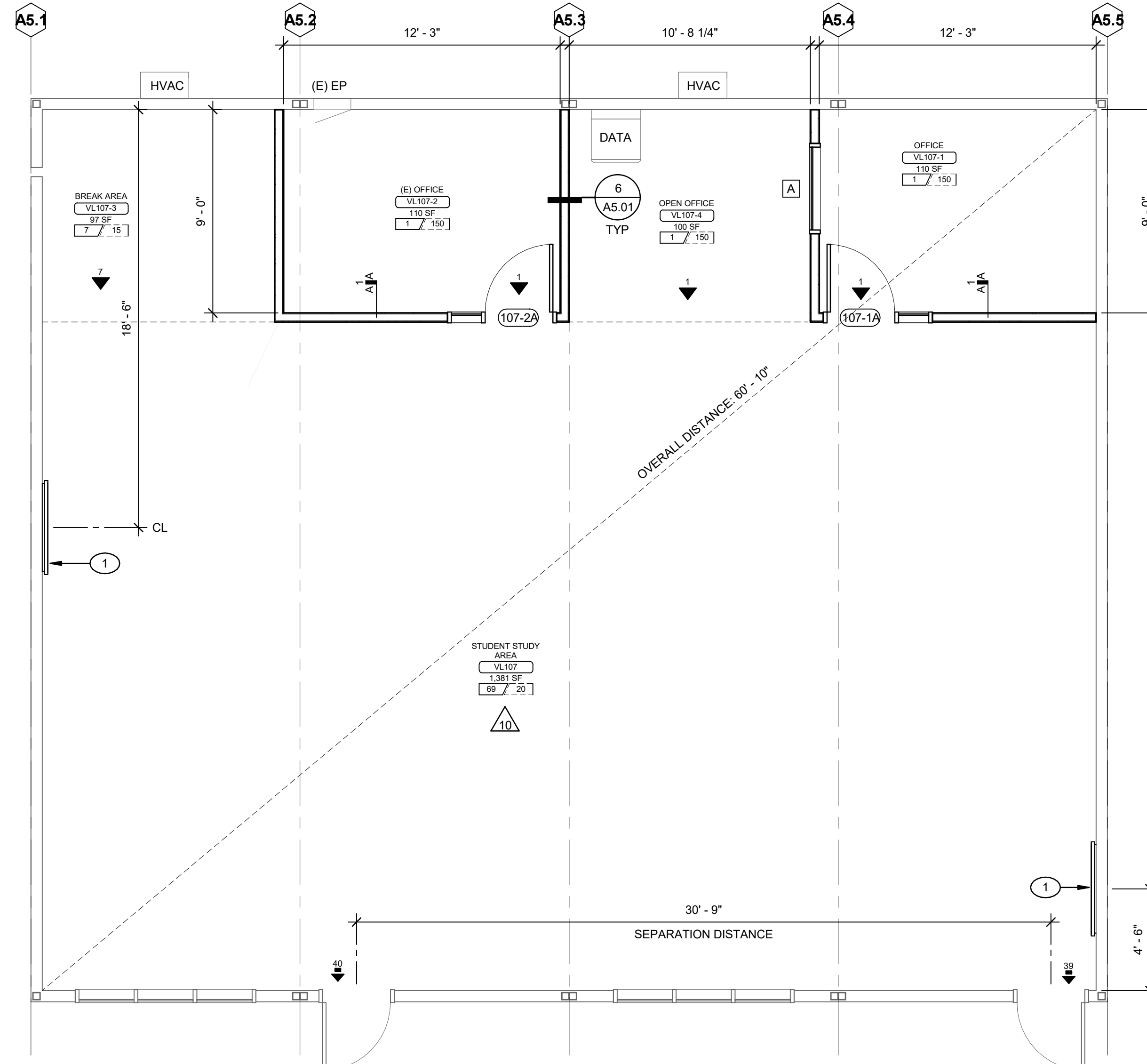
### 4 REFLECTED CEILING PLAN - RENOVATION

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



### 1 FLOOR PLAN - DEMOLITION

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



### 2 FLOOR PLAN - RENOVATION

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

#### DEMOLITION PLAN GENERAL NOTES

- THE CONTRACTOR SHALL OBTAIN RECORD DRAWINGS FROM THE DISTRICT PRIOR TO THE START DEMOLITION FOR USE AS REFERENCE DURING DEMOLITION. COMPARE RECORD DRAWING TO AS-BUILT CONDITIONS AND IMMEDIATELY REPORT DISCREPANCIES THAT AFFECT THE SCOPE OF DEMOTION.
- PERFORM REMOVAL TO THE EXTENT REQUIRED TO ACCOMMODATE NEW CONSTRUCTION EVEN THOUGH NOT SPECIFICALLY INDICATED OR SPECIFIED.
- INFORM DISTRICT OF ANTICIPATED UTILITY DISRUPTIONS CAUSED BY THE WORK. SCHEDULE POWER OR LOW VOLTAGE DISRUPTIONS WITH THE DISTRICT TO MINIMIZE DISRUPTION TO OCCUPIED BUILDINGS OR SPACES.
- PRIOR TO START OF DEMOLITION DISCUSS ITEMS TO BE SALVAGED WITH THE DISTRICT AND CAREFULLY REMOVE THESE ITEMS AND STORE IN A SAFE PLACE TO BE DESIGNATED BY THE DISTRICT.
- NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA

#### DEMOLITION PLAN CODED NOTES

- EXISTING DOOR TO REMAIN
- EXISTING WINDOW TO REMAIN. REMOVE SHADES; COORDINATE WITH DISTRICT REPRESENTATIVE FOR SALVAGE.
- EXISTING HVAC UNIT TO REMAIN
- REMOVE FURNITURE IN ITS ENTIRETY. COORDINATE WITH DISTRICT REPRESENTATIVE FOR ITEMS TO BE SALVAGED. DISTRICT ITS SHALL DISCONNECT AND STORE PC ON-SITE; CONTRACTOR TO PROTECT IN PLACE.
- REMOVE POWER POLE IN ITS ENTIRETY. CAP POWER LINE AT NEAREST JUNCTION BOX. REMOVE DATA BACK TO IDF. SEE ELECTRICAL
- REMOVE BUILT-IN MILLWORK
- REMOVE WALL IN ITS ENTIRETY
- REMOVE DOOR IN ITS ENTIRETY
- EXISTING WALL MOUNTED DATA RACK TO REMAIN
- REMOVE FLOORING FINISH IN ITS ENTIRETY
- EXISTING COLUMN TO REMAIN

#### DEMOLITION PLAN LEGEND

- AREA OF REMOVAL
- ITEMS TO BE REMOVED
- DEMOLITION PLAN CODED NOTE

#### GENERAL SITE SAFETY NOTE

SECTION 3302.3 OF THE CALIFORNIA BUILDING CODE (CBC) DIRECTS COMPLIANCE WITH CHAPTER 33 OF THE CALIFORNIA FIRE CODE (CFC), CHAPTER 33 OF THE CFC OUTLINES REQUIREMENTS FOR SITE SAFETY DURING CONSTRUCTION AND DEMOLITION. THE CONTRACTOR, IN COORDINATION WITH THE DISTRICT, IS RESPONSIBLE FOR THE DEVELOPMENT AND IMPLEMENTATION OF A WRITTEN SITE SAFETY PLAN ESTABLISHING A FIRE PREVENTION PROGRAM AT THE PROJECT SITE.

ALL CONSTRUCTION AND DEMOLITION SHALL BE IN ACCORDANCE WITH CHAPTER 33 OF THE CBC AND CFC, AND THE WRITTEN SITE SAFETY PLAN. NO DEMOLITION SHALL COMMENCE WITHOUT A WRITTEN SITE SAFETY PLAN ON SITE AND AVAILABLE THROUGHOUT THE DURATION OF CONSTRUCTION.

#### GENERAL FLOOR PLAN NOTES

- DIMENSIONS SHOWN SHALL BE MEASURED FROM FACE OF FINISH, TYPICAL
- FURNITURE BY VENDOR. SEE LAYOUT ON 1/A5.01 FOR REFERENCE
- REFER TO FURNITURE & FINISH PLAN 1/A5.01 FOR SIGNAGE AND ASSITIVE LISTENING SYSTEM (ALS)

#### FLOOR PLAN CODED NOTES

- WALL MOUNT TV MONITOR WITH SOUND BAR, SEE ELECTRICAL FOR POWER/ DATA. COORDINATE WITH DISTRICT REPRESENTATIVE FOR EXACT LOCATION. EQUIPMENT (TV MONITOR, SOUND BAR, WALL MOUNTING BRACKET) FURNISHED BY DISTRICT; CONTRACTOR SHALL PROVIDE BLOCKING AND INSTALL EQUIPMENT. REFER TO BACKING DETAIL 10/A5.01

#### FLOOR PLAN LEGEND

- Room name
- OCCUPANT LOAD FACTOR - TABLE 1004.1.2
- OCCUPANT LOAD
- ACCUMULATED OCCUPANT LOAD FROM ROOMS DIRECTLY TO EXTERIOR
- EXIT FROM ROOMS. NUMBER INDICATES THE CALCULATED ACCUMULATED LOAD AT THAT ROOM OR BUILDING EXIT. ARROW INDICATES EXIT DIRECTION
- ACCUMULATED OCCUPANT LOAD FROM ADJACENT SPACES
- FLOOR PLAN CODED NOTE
- DOOR TAG, SEE DOOR SCHEDULE ON A3.01
- WINDOW TAG, SEE WINDOW SCHEDULE ON A3.01
- WALL TYPE DESIGNATION, SEE 2/A5.01 FOR WALL TYPE DESCRIPTIONS. ALL WALLS TYPE A/1/A UNLESS OTHERWISE NOTED.
- EXISTING PARTITION TO REMAIN
- NEW PARTITION PER WALL TYPE

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DATE: 12/03/2025



MORETO MATHISON & ASSOCIATES  
ARCHITECTS  
449 W Foothill Blvd  
Suite 281, Glendora CA 91741  
(626) 594-0307

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COMMUNITY COLLEGE DISTRICT  
**VL107**  
**AP STUDENT CENTER**  
**RECONFIGURATION**

SANTA ANA COLLEGE  
1530 W. 17TH ST  
SANTA ANA, CA 92706

100% CD

#### REVISIONS

Revision	Description	Date
01	DSA Back Check 01	08/05/2025
02	DSA Back Check 02	10/24/2025

MMA NO	25801
DATE:	05/12/2025
DRAWN	WJ
CHECKED	DM

**DEMOLITION &  
RENOVATION  
FLOOR PLAN &  
REFLECTED  
CEILING PLAN**

**A2.01**









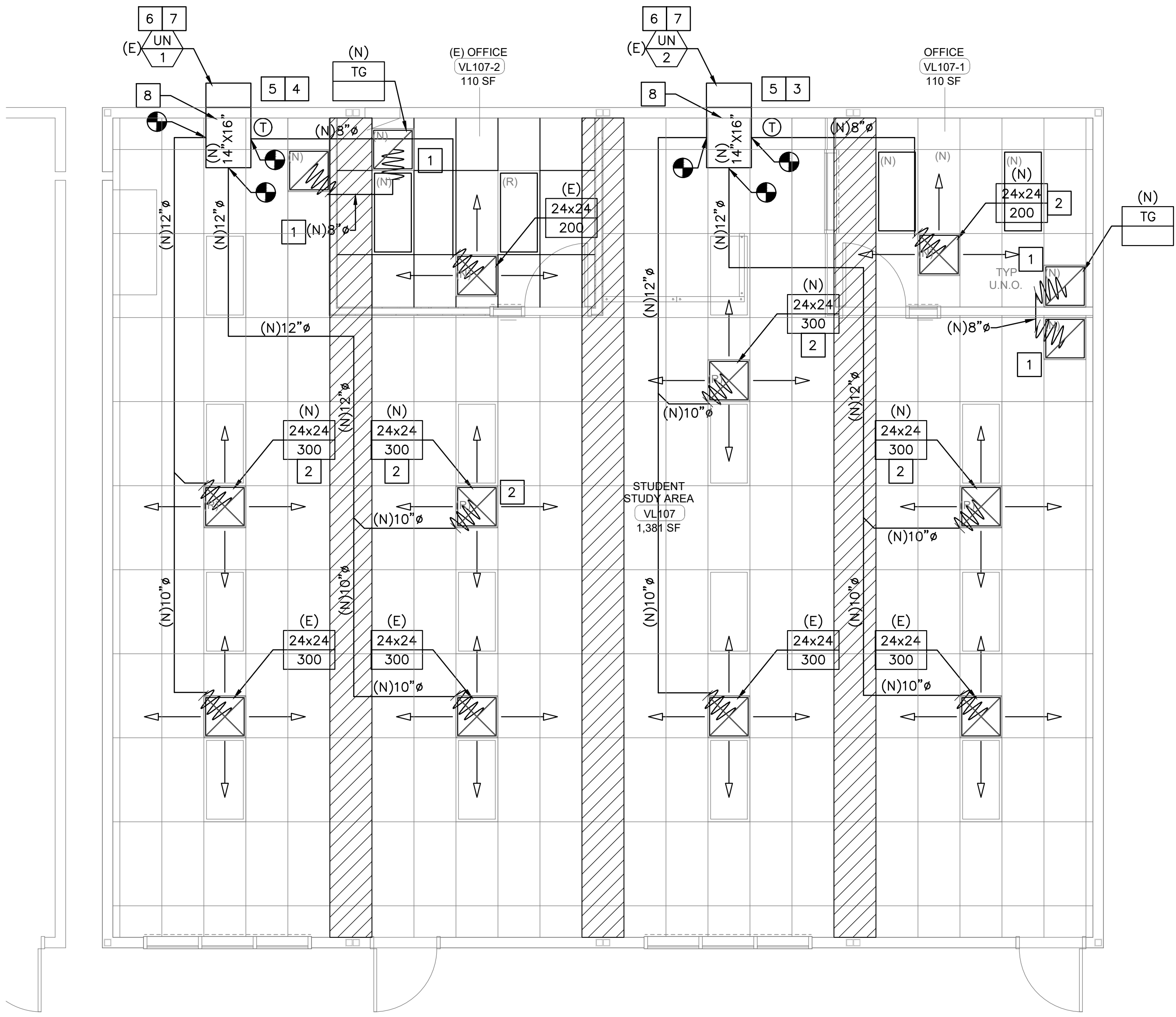




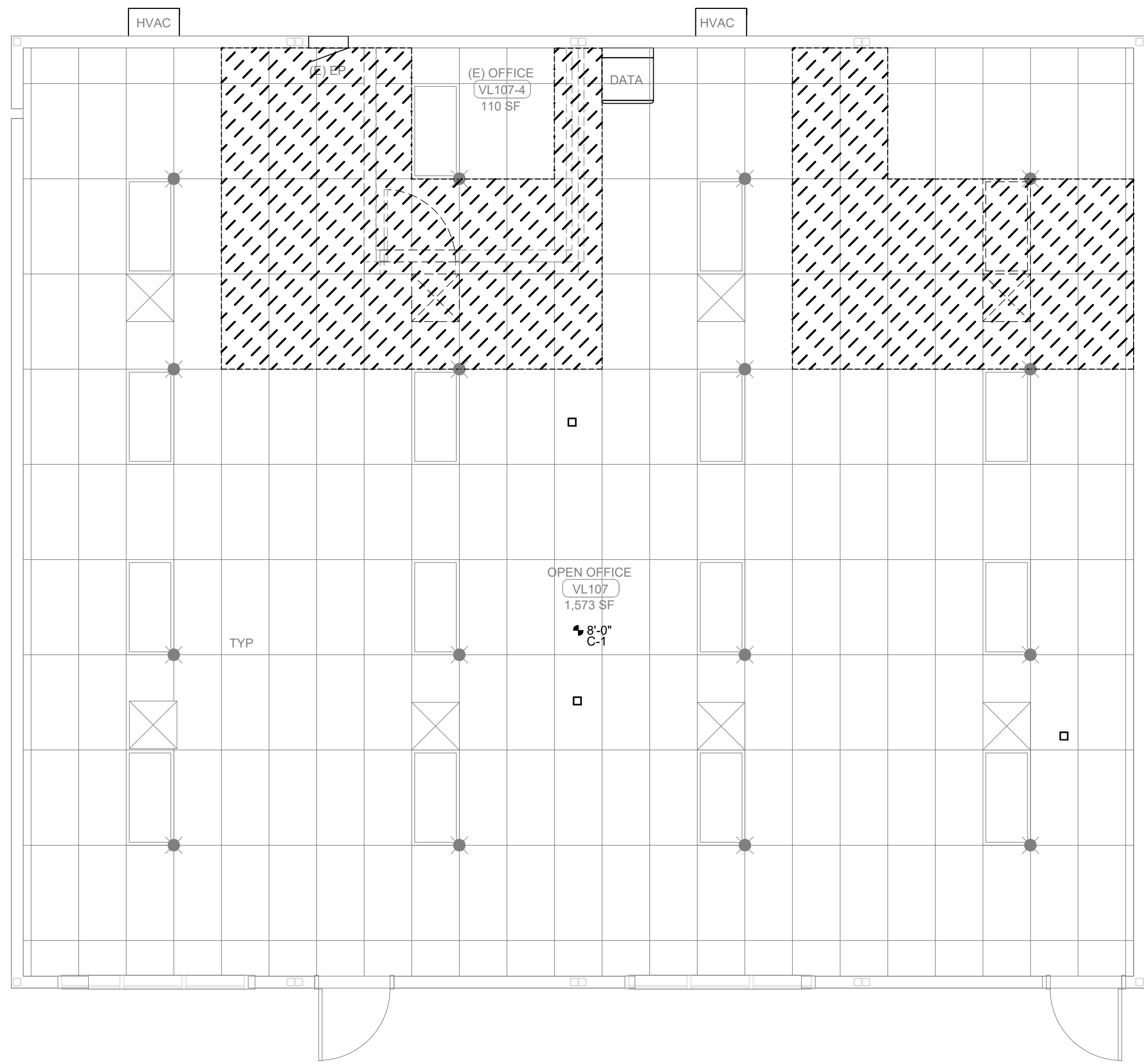








01 MECHANICAL FLOOR PLAN NEW  
SCALE: 1/4"=1'-0"



01 MECHANICAL FLOOR PLAN DEMO  
SCALE: 1/4"=1'-0"

## HVAC KEYNOTES

- 1 CONTRACTOR SHALL INSTALL NEW TRANSFER GRILLE FOR RETURN AIR.
- 2 ADD A NEW DIFFUSER. SEE THE FLOOR PLAN.
- 3 ALL NEW DUCT WORK FOR UN-2.
- 4 ALL NEW DUCT WORK FOR UN-1.
- 5 EXISTING UNITS TO REMAIN AS IS.
- 6 HEATING, VENTILATING AND AIR CONDITIONING SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH AN APPROVED METHOD PER SECTION 314.1 OF THE CALIFORNIA MECHANICAL CODE.
- 7 CONTRACTOR SHALL CONTRACT THE ENGINEER ON RECORD IF THERE ARE ANY ISSUES WITH THE DUCT SIZE OR DUCT CROSSING.
- 8 RETURN AIR IS ON THE WALL 32\"/>

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MORETO MATHISON & ASSOCIATES  
ARCHITECTS  
449 W FOOTHILL BLVD  
SUITE 281, GLENORA CA 91741  
(925) 594-0307

CONSULTANT  
  
HARRISON ENGINEERING  
449 W FOOTHILL BLVD, SUITE 281  
GLENORA, CA 91741  
TEL: (925) 594-0307  
WWW.HARRISONENGINEERING.COM

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REVISIONS  

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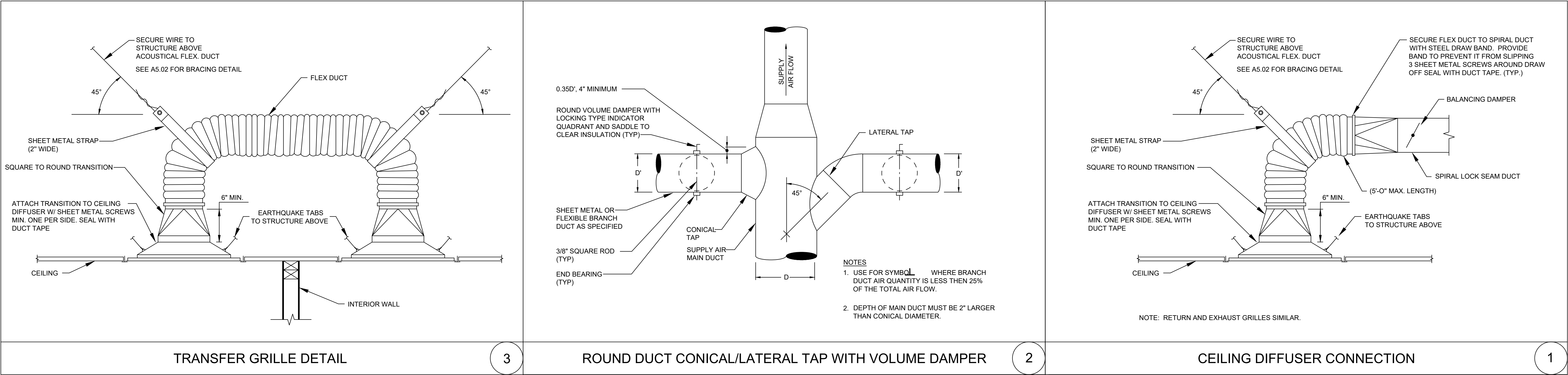
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MECHANICAL  
FLOOR PLAN

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MORETO MATHISON & ASSOCIATES  
ARCHITECTS  
449 W FOOTHILL BLVD  
SUITE 281, GLEN DORA CA 91741  
(626) 594-0307

CONSULTANT  
  
HARITON ENGINEERING  
4555 FERNWOOD DRIVE, SUITE 100  
PACIFIC PALMS, CA 92651  
TEL: 949.440.1100 FAX: 949.440.1101  
WWW.HARITONENGINEERING.COM

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MECHANICAL  
DETAILS

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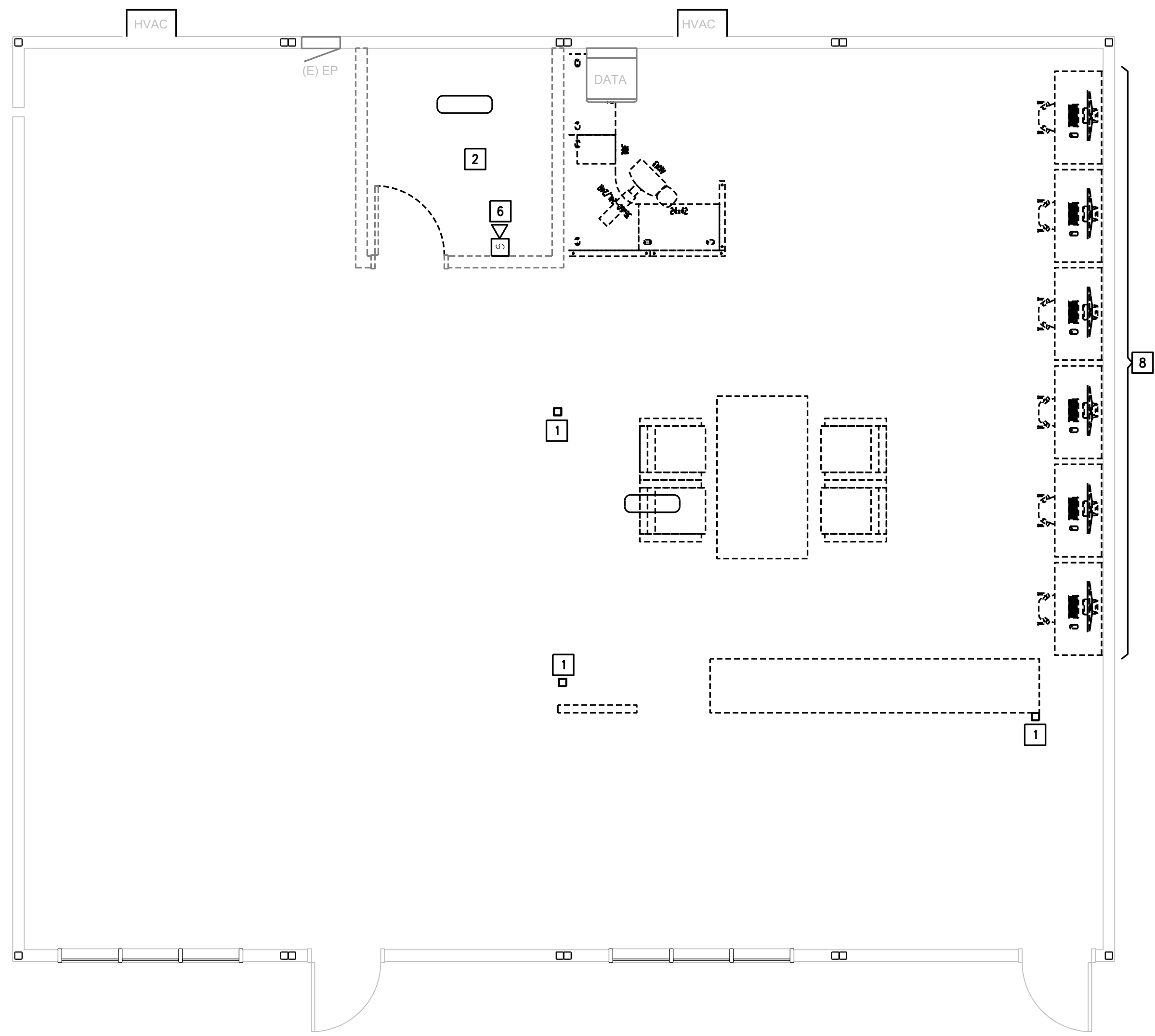




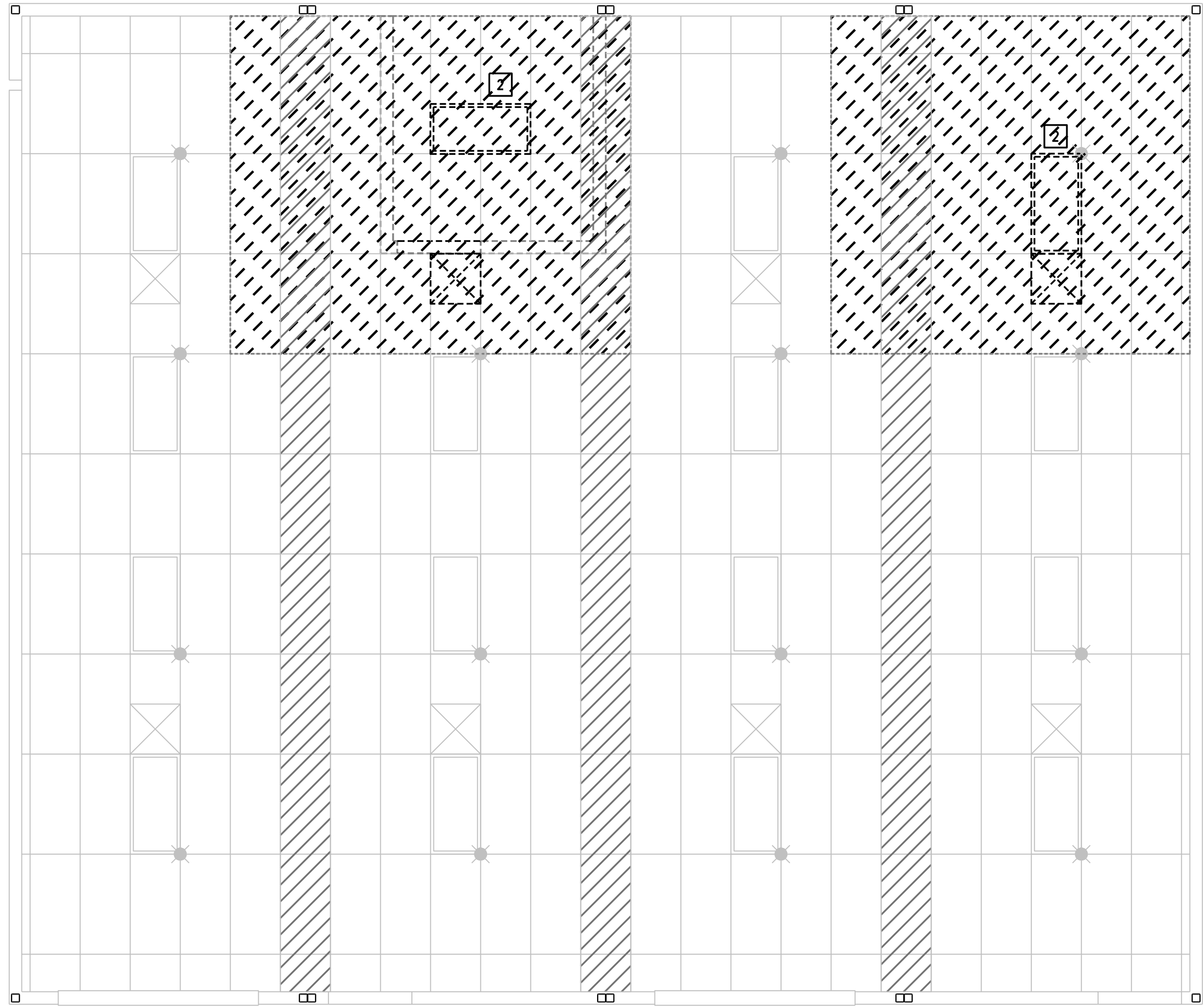




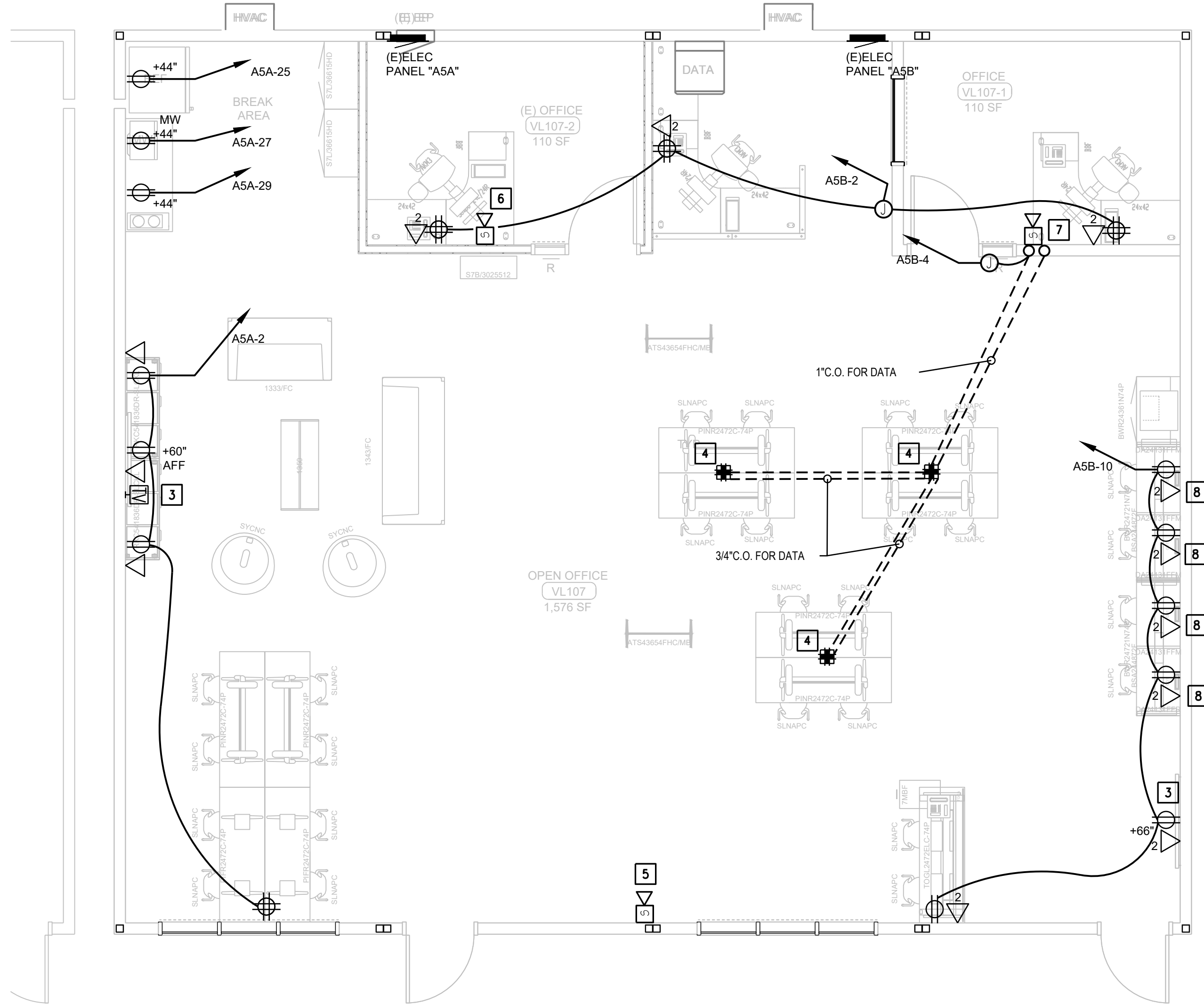




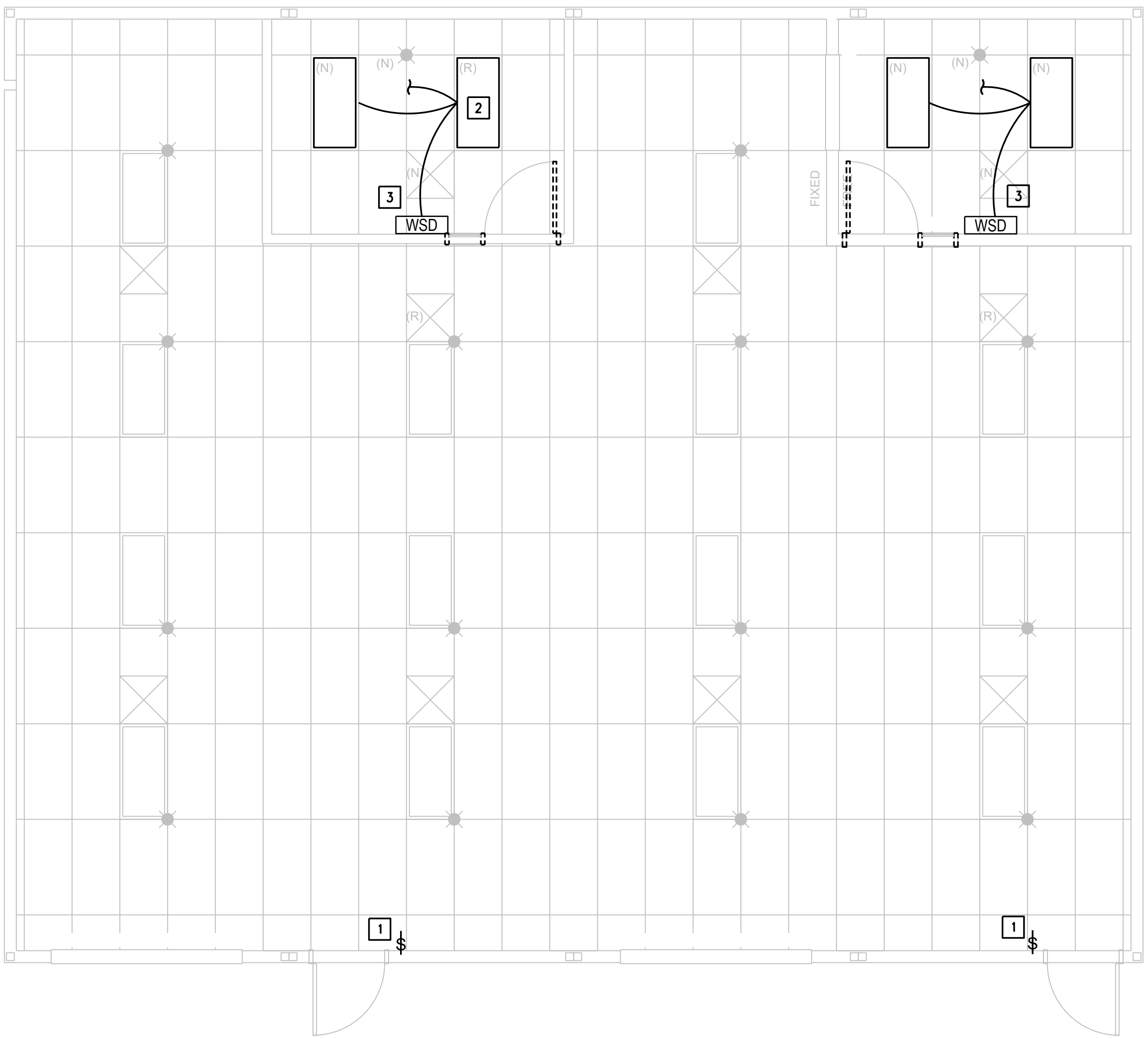
03 FLOOR POWER PLAN - DEMO  
SCALE: 1/4"=1'-0"



01 FLOOR LIGHTING PLAN - DEMO  
SCALE: 1/4"=1'-0"



04 FLOOR POWER PLAN - NEW  
SCALE: 1/4"=1'-0"



02 FLOOR LIGHTING PLAN - NEW  
SCALE: 1/4"=1'-0"

## GENERAL NOTES

- ALL WORK SHALL COMPLY WITH 2022 CALIFORNIA ELECTRIC CODE.
- RECEPTACLES GANGED TOGETHER SHALL BE MOUNTED UNDER SINGLE COVER PLATE.
- COORDINATE EXACT LOCATION OF RECEPTACLES WITH ARCHITECT. SCALING OF ENGINEERING DOCUMENTS FOR LOCATIONS OF DEVICES SHALL NOT BE PERMITTED.
- COORDINATE DATA CABLING WITH DISTRICT APPROVED IT VENDOR.
- REMOVE ANY EXISTING POWER AND DATA FEEDS FROM AREA BEING DEMOLISHED. POWER WIRING SHALL BE REMOVED BACK TO SOURCE.
- SEE FIRE ALARM DRAWINGS FOR DETAIL OF NEW DEVICES.

## 1 LIGHTING PLAN SPECIFIC NOTES

- EXISTING SWITCHING TO REMAIN AS IS. REWIRE TO NEW LAYOUT.
- RELOCATE LIGHT AS SHOWN ON NEW PLAN.
- NEW OCCUPANCY SENSOR. CONNECT TO EXISTING LIGHTING CIRCUIT IN THE AREA.

## 2 POWER PLAN SPECIFIC NOTES

- REMOVE POWER POLE IN ITS ENTIRETY. REMOVE FEED TO NEAREST JUNCTION BOX. REMOVE DATA LINE TO IDF.
- REMOVE ALL POWER AND DATA BACK TO SOURCE AS PART OF OFFICE DEMOLITION.
- SEE SHEET E1.01 FOR AV DETAILS AND LINE DIAGRAMS.
- RECESSED ROUND FLOOR BOX, HUBBELL AFB51R6BASE WITH STCFCL COVER.
- EXISTING F/A DEVICE TO REMAIN AS IS.
- EXISTING F/A DEVICE TO BE REINSTALLED ON NEW OFFICE WALL ONCE REBUILT. PRESERVE WIRING DURING DEMOLITION.
- NEW F/A DEVICE SHALL BE INSTALLED AND EXISTING CIRCUIT SHALL BE EXTENDED AND MODIFIED AS NEEDED. NEW DEVICE SHALL BE INSTALLED AND COMMISSIONED BY DISTRICT APPROVED FIRE ALARM VENDOR. SEE FIRE ALARM DRAWINGS.
- REUSE (8) EXISTING DATA PORTS IN THIS AREA AS SHOWN IN NEW LAYOUT. EXTEND EXISTING NETWORK CABLES TO NEW LOCATIONS.

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MORETO MATHISON & ASSOCIATES  
ARCHITECTS  
449 W FOOTHILL BLVD  
SUITE 201, GLEN DORA CA 91741  
(626) 594-0307

CONSULTANT



HARRISON ENGINEERING  
4555 BROADWAY, SUITE 100, LOS ANGELES, CA 90012  
TEL: (213) 697-1234  
WWW.HARRISONENG.COM

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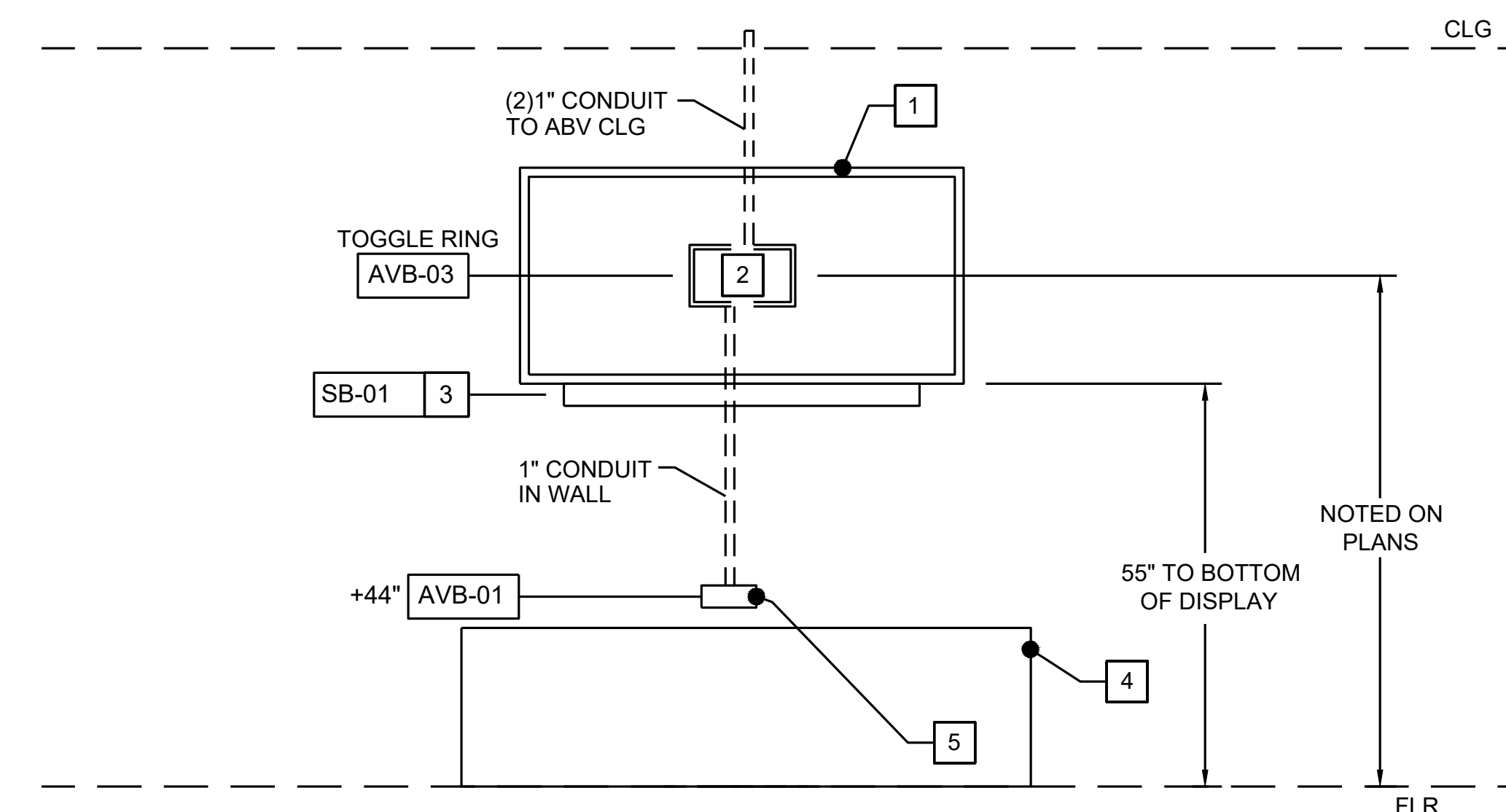
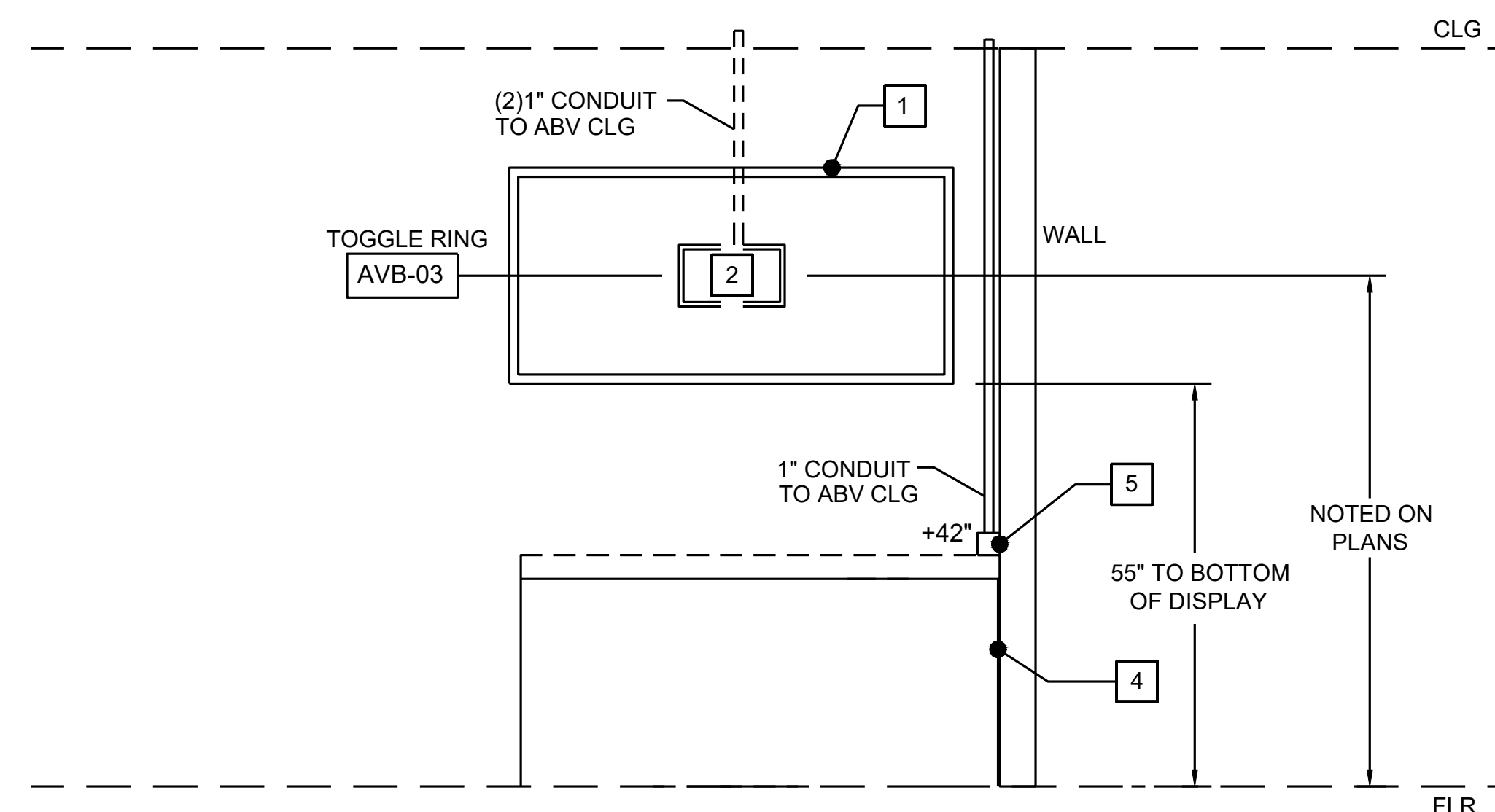
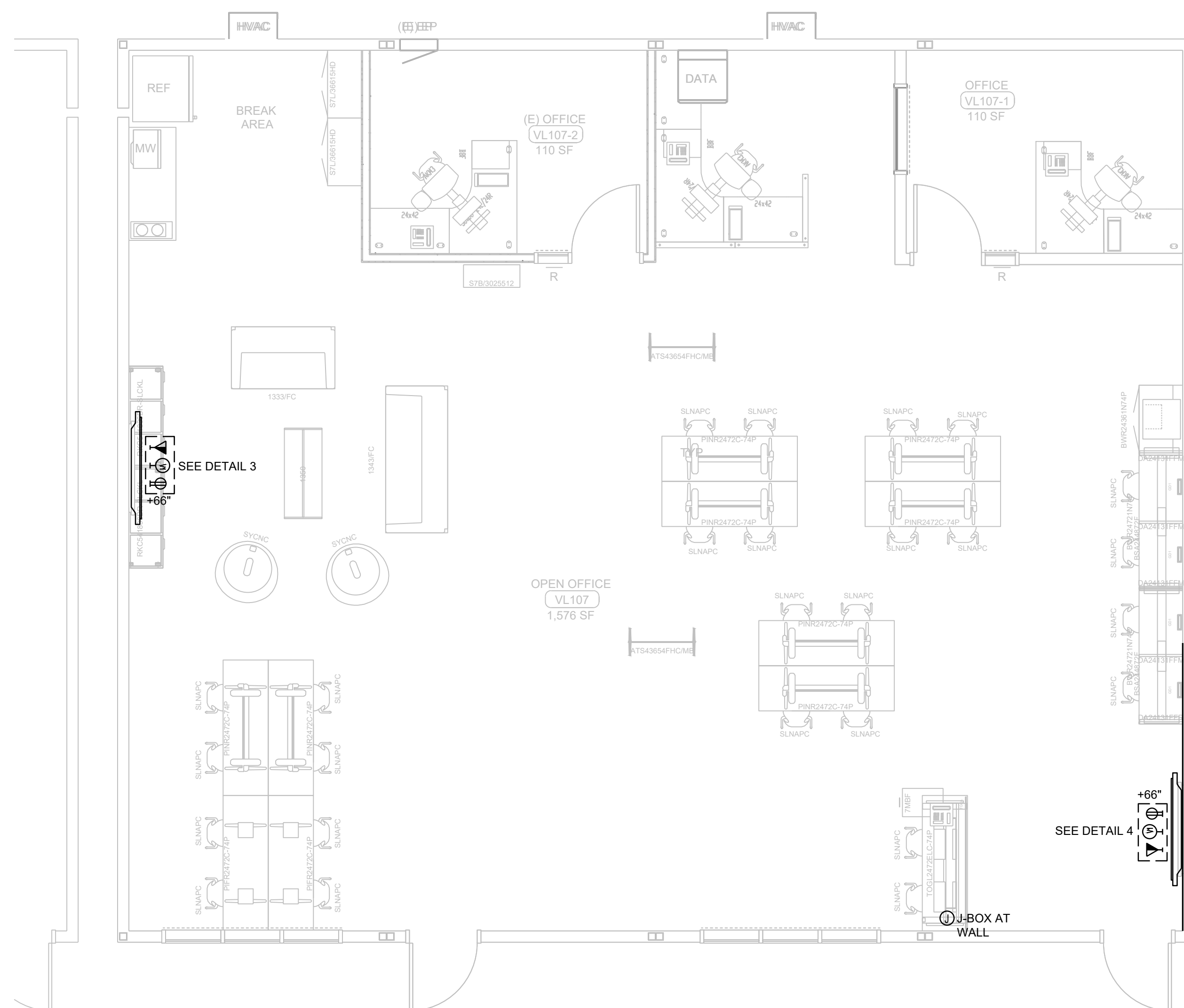
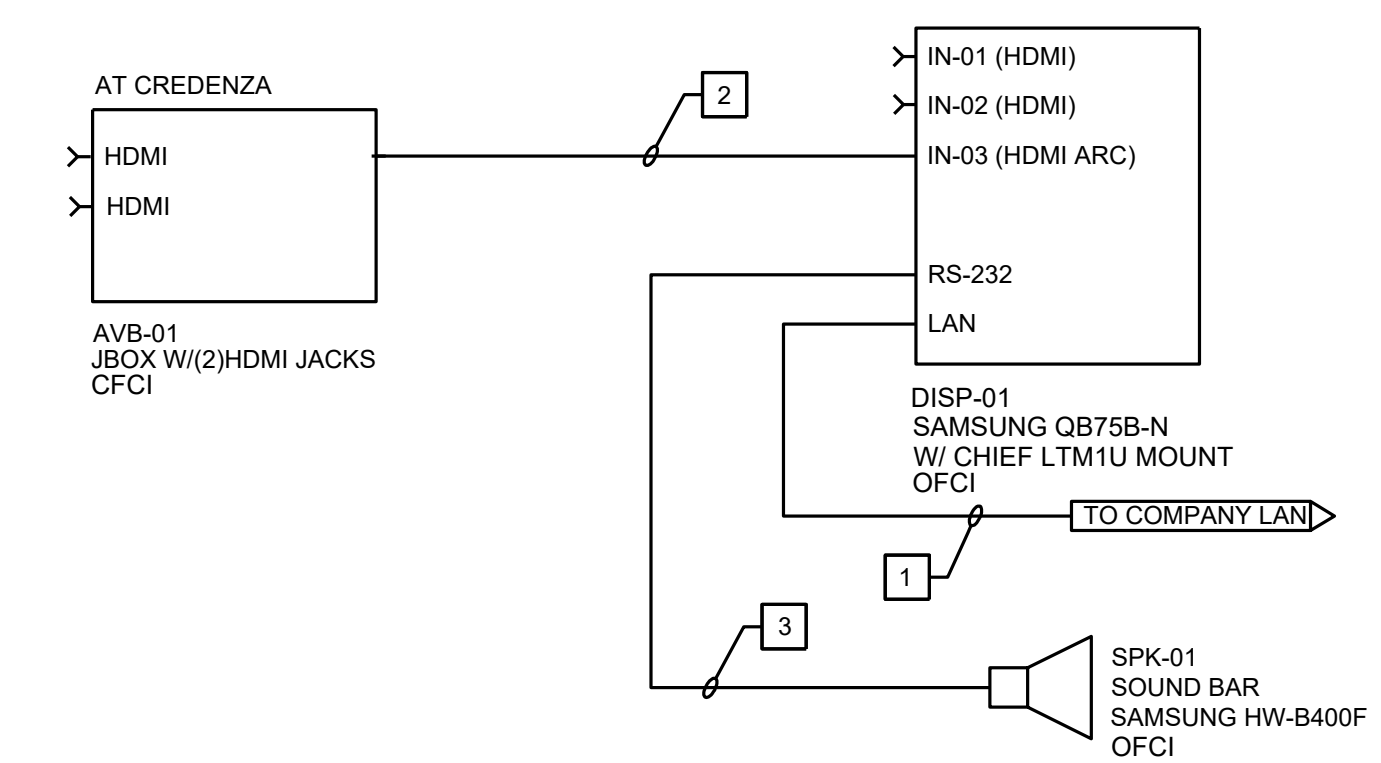
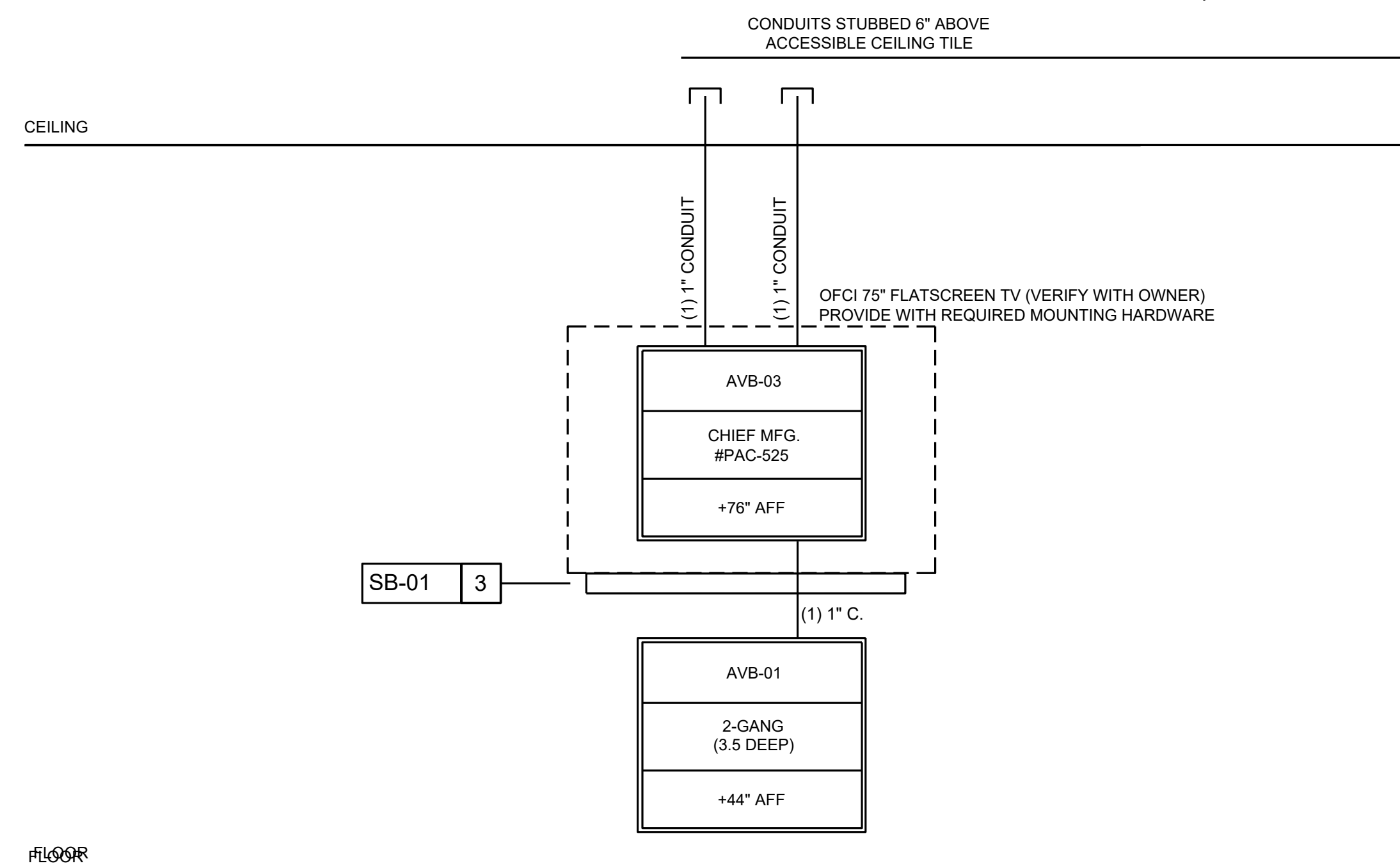
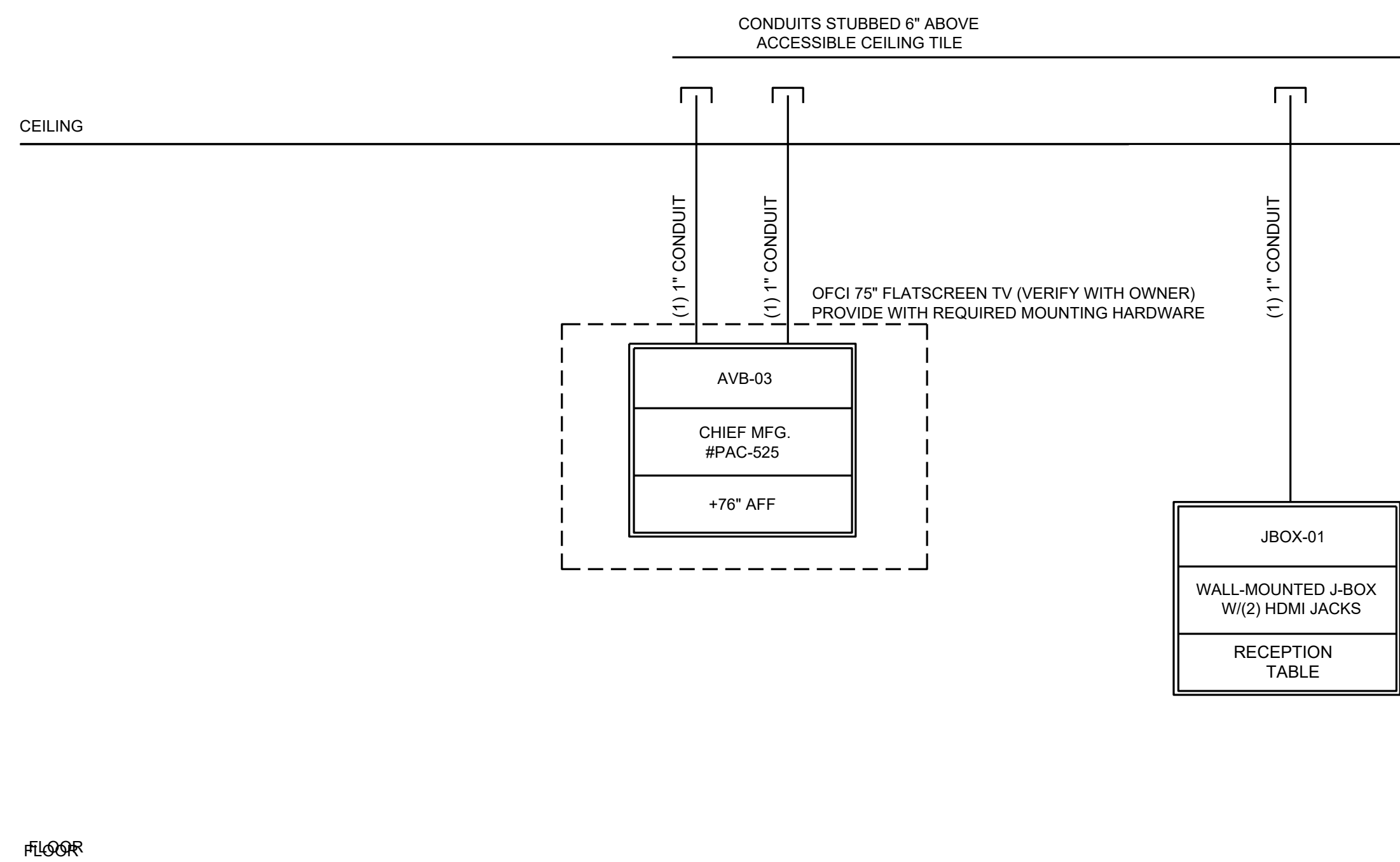
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ELECTRICAL  
FLOOR PLANS

E1.00





## E1.01



# FIRE ALARM NOTES

1. ALL WALL—MOUNTED AUDIBLE SIGNALING APPLIANCES SHALL HAVE THEIR HEIGHTS ABOVE THE FINISHED FLOOR AT NOT LESS THAN 90" TO FINISHED FLOOR AND AT NOT LESS THAN 6" TO FINISHED CEILING, AS CEILING HEIGHT PERMITS (NFPA 72, 2010, CH. 18.4.5.1). ALL WALL MOUNTED VISUAL APPLIANCES AND COMBINATION AUDIBLE/VISUAL APPLIANCES SHALL BE MOUNTED NOT LESS THAN 80" AND NOT GREATER THAN 96" ABOVE FINISHED FLOOR. (NFPA 72, 2010, CH. 18.5.4.1.)
2. ALL EQUIPMENT SHALL BE U.L. AND C.S.F.M. LISTED.
3. ALL WIRING SHALL BE IN ACCORDANCE WITH THE N.E.C. AND AUTHORITIES HAVING JURISDICTION.
4. ALL JUNCTION BOXES SHALL BE SIZED IN ACCORDANCE WITH THE N.E.C. AND SHALL HAVE THEIR COVERS PAINTED RED WHERE APPLICABLE.
5. ELECTRICAL CONTRACTOR SHALL FURNISH ACCESS PANELS TO AREAS THAT REQUIRE SERVICING, TROUBLE SHOOTING, ETC.
6. DO NOT DEVIATE FROM CONDUIT RUNS AS SHOWN ON FLOOR PLANS WITHOUT PRIOR APPROVAL FROM ELECTRICAL ENGINEER. FACTORS SUCH AS EXCESSIVE VOLTAGE DROP, ADDITIONAL PARTS, ENGINEERING, ETC., THAT ARE A RESULT OF CONDUIT RUN DEVIATIONS SHALL BE THE SOLE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
7. DETECTORS SHALL NOT BE LOCATED IN A DIRECT AIR-FLOW, NOR CLOSER THAN THREE (3) FEET (914mm) FROM AN AIR SUPPLY DIFFUSER.
8. ALL FAN SHUTDOWN FUNCTIONS, DAMPER CLOSURES AND ASSOCIATED MECHANICAL SYSTEM FIRE ALARM INTERFACE SHALL BE BY MECHANICAL CONTRACTOR, AND SHALL BE COORDINATED WITH FIRE ALARM SYSTEM.
9. ALL DUCT SMOKE DETECTORS SHALL BE MOUNTED BY THE MECHANICAL CONTRACTOR. DUCT SMOKE DETECTORS EXPOSED TO THE WEATHER SHALL BE C.S.F.M. LISTED FOR OUTDOOR INSTALLATION, AND WEATHER PROTECTED BY THE MECHANICAL CONTRACTOR. ALL AIR VELOCITY TESTING SHALL BE PERFORMED BY THE MECHANICAL CONTRACTOR.
10. ALL 120VAC POWER REQUIREMENTS FOR THE FIRE ALARM SYSTEM SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR AND SHALL MEET ALL REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.
11. ALL FIRE ALARM DEVICE BACKBOXES, FIRE ALARM TERMINAL CABINETS, GUTTERS, JUNCTION BOXES AND ASSOCIATED CONDUITS SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED. REFER TO FIRE ALARM SYMBOL LIST AND/OR MOUNTING DETAILS FOR ADDITIONAL INFORMATION. SYSTEM SUPPLIER PROVIDED BACKBOXES SHALL BE INSTALLED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.
12. SMOKE DETECTOR TESTING SHALL BE PERFORMED TO ENSURE THAT EACH DETECTOR IS WITHIN ITS LISTED AND MARKED SENSITIVITY RANGE USING THE METHODS RECOMMENDED PER CFC 907.9.4 AND NFPA 72, 2010 14.4.5.3.4.
13. ALL WIRING, INITIATING DEVICES AND ANNUNCIATOR PANEL SHALL BE SUPERVISED TO THE PRINCIPAL POINT OF ANNUNCIATION. THE FIRE ALARM CONTROL PANEL TO SUPERVISE THE ANNUNCIATOR PANEL, ALL INITIATING AND INDICATING DEVICE CIRCUITS.
  - A. INITIATING DEVICE CIRCUITS (IDC): CLASS B
  - B. SIGNALING LINE CIRCUITS (SLC): CLASS B
  - C. NOTIFICATION APPLIANCE CIRCUITS (NAC): CLASS B
14. ALL WIRING SHALL BE CUT FOR IN AND OUT. WIRING SHALL NOT BE LOOPED THROUGH DEVICES.
15. POINT AND COMMON ANNUNCIATION AND T-TAPPING ARE PROHIBITED. (T-TAPPING IS ALLOWABLE ON SLC LOOPS).
16. PROVIDE 3/4" CONDUIT FROM FIRE ALARM CONTROL PANEL TO TELEPHONE BACKBOARD FOR OWNER PROVIDED CENTRAL STATION MONITORING.
17. CONTRACTOR TO FIELD VERIFY AND PROVIDE DECIBEL METER FOR TESTING OF AMBIENT NOISE LEVELS (THE AUDIBLE ALARM NOTIFICATION APPLIANCES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 dBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR 1 dBA ABOVE THE MAXIMUM SOUND LEVEL, HAVING DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, IN EVERY OCCUPIED SPACE WITHIN THE BUILDING. THE MINIMUM SOUND PRESSURE LEVEL SHALL BE 50 dBA PER CFC 907.6.2.1.1). INSTALL ADDITIONAL AUDIBLE DEVICES AS NEEDED TO ATTAIN REQUIRED NOISE LEVELS IN ALL REQUIRED AREAS. PROVIDE UPDATED PLANS AND CALCULATIONS THROUGH THE "CHANGE ORDER" PROCESS WHEN INSTALLING ADDITIONAL DEVICES. INSPECTOR OF RECORD (IOR) TO WITNESS FINAL TEST OF SYSTEM. CONTRACTOR(S) TO PROVIDE FINAL TEST RESULTS AND "RECORD OF COMPLETION" TO ARCHITECT OF RECORD, OWNER, DIVISION OF THE STATE ARCHITECT, IOR AND LOCAL FIRE AUTHORITY.
18. ALL CONDUITS ARE 3/4" UNLESS OTHERWISE NOTED.
19. ALL FLOW SWITCHES SHALL BE 2 WIRE WITH NON-ELECTRONIC RETARD TYPE SIMILAR TO THE SYSTEM SENSOR MODEL "WFO SERIES" ONLY.
20. ALL DEVICES IN THE ALARM SYSTEM SHALL BE COMPATIBLE AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
21. FIRE ALARM SYSTEM SHALL BE FURNISHED AND INSTALLED BY AN AUTHORIZED DISTRIBUTOR.
22. FIRE ALARM SYSTEM INSTALLATION COMPANY SHALL BE U.L. LISTED (ULUS).
23. DETECTORS SHALL NOT BE INSTALLED UNTIL AFTER THE CONSTRUCTION CLEAN-UP OF ALL TRADES IS COMPLETE AND FINAL DETECTORS THAT HAVE BEEN INSTALLED PRIOR TO FINAL CLEAN-UP BY ALL TRADES SHALL BE CLEANED OR REPLACED IN ACCORDANCE WITH CHAPTER 17, CLEANING OR REPLACEMENT OF DEVICES THAT WERE MOUNTED AT THE REQUEST OF THE CONTRACTOR WILL NOT BE PERFORMED WITHOUT WRITTEN AUTHORIZATION THAT ASSUMES FINANCIAL RESPONSIBILITY FOR COSTS INCURRED. TESTING OF DETECTORS SHALL BE PERFORMED PER NFPA 72 14.4.5.3.4 AND CFC 907.9.4.
24. PER CFC 11107.6(4), 11148.2.2 ACTIVATION OF INITIATING DEVICE SHALL NOT REQUIRE MORE THAN 5 LBS. (22.20N) OF FORCE OR REQUIRE TIGHT GRASPING PINCHING, OR TWISTING OF WRIST.
25. THE SYSTEM SHALL CONFORM TO CALIFORNIA CODE OF REGULATIONS (CCR) TITLES 19 AND 24 AS APPLICABLE TO THIS PROJECT.
26. AUDIBLE ALARM SIGNALS SHALL BE THE STANDARD FIRE ALARM EVACUATION SIGNAL, ANSI S3.41 AUDIBLE EMERGENCY EVACUATION SIGNAL, "THREE PULSE TEMPORAL PATTERN," AS DESCRIBED IN NFPA 72. EXCEPTION: THE USE OF THE EXISTING EVACUATION SIGNALING SHALL BE PERMITTED WHERE APPROVED BY THE ENFORCING AGENT.) (CFC 907.2.2.1.3)
27. PROVIDE A LABEL WITHIN THE FACP AND EACH POWER SUPPLY WITH THE PANEL NUMBER AND CIRCUIT NUMBER OF THE 120 VOLT POWER SOURCE.
28. WHERE A DETECTOR IS INSTALLED ABOVE THE CEILING, THE DETECTOR SHALL BE EASILY ACCESSIBLE AND THE LOCATION OF THE DETECTOR SHALL BE CLEARLY MARKED. FOR DUCT SMOKE DETECTORS A REMOTE TEST STATION SHALL BE PROVIDED.
29. THE "END OF LINE RESISTANCE" OF EACH CIRCUIT SHALL BE TESTED IN THE PRESENCE OF THE I.O.R. AND SHALL NOT EXCEED A MAXIMUM OF 10% VOLTAGE DROP, OR LISTED MANUFACTURER'S MINIMUM OPERATING VOLTAGE.
30. ALL WIRING USED IN UNDERGROUND CONDUIT SHALL BE LISTED FOR WET AREA APPLICATION, IN ACCORDANCE WITH CEC 2010, SEC. 110.11, 300.6 & 310.9, 780.3(D).
31. PROVIDE (VIA CHANGE ORDER PROCESS) APPROPRIATE MANUFACTURER PRODUCT DATA SHEETS AND APPLICABLE CSM LISTINGS FOR ALL SUBSTITUTE MANUFACTURER'S MATERIAL, EQUIPMENT OR APPLIANCES, TO DSA PRIOR TO START OF INSTALLATION.
32. CONTRACTOR SHALL PROVIDE FIRE WATCH FOR ALL OCCUPIED AREAS OF WORK WHERE THE REQUIRED FIRE ALARM SYSTEM IS OUT OF SERVICE FOR THE DURATION OF THE SYSTEM OUTAGE. FIRE WATCH AND SYSTEM EQUIPMENT SHALL BE PER 2010 CFC 901.7.

## FIRE ALARM SYSTEM TESTING NOTES:

1. CONTRACTOR SHALL PROVIDE A CERTIFIED IMPARTIAL FIRE ALARM INSPECTOR.
2. 100% OF THE SYSTEM IN CONTRACT WILL BE TESTED AND INSPECTED WITH THE CONTRACTOR OR CONTRACTOR'S SUB AND DISTRICT'S ETS STAFF MEMBER PRESENT. INSPECTION WILL INCLUDE, BUT NOT BE LIMITED TO, REMOVING STROBES/Horns TO CHECK FOR "T-TAPS", REMOVING J-BOX COVERS TO CHECK WIRE GAGE AND SPLICES.
3. FOLLOW ALL REQUIREMENTS AND INSTRUCTIONS PROVIDED BY MANUFACTURER UPON INSTALLATION OF MANUFACTURER'S PRODUCTS AND DEVICES.
4. PRIOR TO REQUESTING FINAL APPROVAL OF THE INSTALLATION, THE INSTALLING CONTRACTOR SHALL FURNISH A WRITTEN STATEMENT TO THE FIRE CODE OFFICIAL THAT THE SUBJECT FIRE PROTECTION SYSTEM HAS BEEN INSTALLED IN ACCORDANCE WITH APPROVED PLANS AND HAS BEEN TESTED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND THE APPROPRIATE INSTALLATION STANDARD. ANY DEVIATIONS FROM THE DESIGN STANDARDS SHALL BE NOTED AND COPIES OF THE APPROVALS FOR SUCH DEVIATIONS SHALL BE ATTACHED TO THE WRITTEN STATEMENT. (CFC 901.2.1)
5. UPON COMPLETION OF SYSTEM INSTALLATION, THE SYSTEM SHALL BE TESTED IN THE PRESENCE OF AND IN A MANNER ACCEPTABLE TO DSA I.O.R. CONTRACTOR SHALL SUPPLY NECESSARY TESTING EQUIPMENT, INCLUDING A "SOUND LEVEL METER TO CHECK ACCEPTABLE NOISE LEVELS OF AUDIBLE DEVICES. PROVIDE TEST RESULTS PER NFPA 72 TO ARCHITECT, D.S.A., I.O.R. AND TO LOCAL FIRE AUTHORITY. PER CFC 907.6.2.
6. INSPECTION, TESTING AND MAINTENANCE SHALL BE IN ACCORDANCE WITH NFPA 72 14.4.1.2 THROUGH 14.4.1.2.2 AND TABLE 14.4.2.2 REACCEPTANCE TESTING.
7. LOCAL FIRE AUTHORITY NOTIFICATION TO BE DOCUMENTED AND RECORDED AS "UNAVAILABLE" OR "CONFIRM WHEN PRESENT" NCE TESTING.

SYMBOL	DESCRIPTION	MODEL	MANUFACTURER	BACKBOX	MOUNTING HEIGHT	C.S.F.M. NUMBER
	FIRE ALARM CONTROL PANEL WITH VOICE COMMAND, AUDIO AMPLIFIER AND NETWORK COMM. MODULE	NFS2-640	NOTIFIER	PROVIDED	5'-0" A.F.F. TO TOP	7165-0028-0243
	FIRE ALARM POWER SUPPLY	FCPS-2456	NOTIFIER	PROVIDED	5'-0" A.F.F. TO TOP	7315-0028-0225
	FIRE ALARM TERMINAL CABINET	N/A	BY ELECTRICIAN	19" SQ. x 6"D U.N.O. (RED)	VERIFY IN FIELD	N/A
	MANUAL PULL STATION (ADDRESSABLE)	NBG-12LX	NOTIFIER	4S DEEP BOX W/ SINGLE GANG RING	48" A.F.F. TO TOP OF ACTIVATING HANDLE	7150-0028-0199
	AREA SMOKE DETECTOR (ADDRESSABLE/PHOTO.)	FSP-951 BTULP (BASE)	NOTIFIER	4S DEEP BOX W/ 3-0 RING	CEILING	E7272-0028-0206 7300-0028-0173
WP	WEATHERPROOF FIRE ALARM SPEAKER	ET-1010	WHEELLOCK	WP BACKBOX PROVIDED	80" A.F.F. TO TOP	7320-0785-0105
cd	FIRE ALARM SPEAKER/STROBE (WALL)	E70-24MCW	WHEELLOCK	4S DEEP BOX W/ 4S EXTENSION	80" A.F.F. TO BOTTOM	7125-0785-0152
cd	FIRE ALARM STROBE (WALL)	STW (WHITE)	WHEELLOCK	4S DEEP BOX W/ 4S EXTENSION	80" A.F.F. TO BOTTOM	7125-0785-0168
	FIRE ALARM JUNCTION BOX	N/A	BY ELECTRICIAN	4S BOX, U.N.O.	VERIFY IN FIELD	N/A
A.F.F. E.O.L. E.L. F.B.O. TSP	ABOVE FINISHED FLOOR END OF LINE RESISTOR EXISTING DEVICE FURNISHED BY OTHERS TWISTED SHIELDED PAIR		N/A U.N.O. VL WP cd	NOT APPLICABLE UNLESS NOTED OTHERWISE VERIFY LOCATION IN FIELD WEATHERPROOF DEVICE INDICATED CANDELA RATING OF STROBE DEVICE		

ABBREVIATIONS		
A	AMPERE	KCMIL THOUSAND CIRCULAR MILS
AMP	AMPERE	KVA KILOVOLT-AMPERE
AC	ALTERNATING CURRENT	KV KILOWATT
AF	AMPERE FRAME	KWH KILOWATT-HOUR
AF	AMPERE FUSE	KVAR KILOWATT
AF	ABOVE FINISHED CEILING	
AFF	ABOVE FINISHED FLOOR	LCL LONG CONTINUOUS LOAD
AFG	ABOVE FINISHED GRADE	LCK LOCKED ROTOR AMP
AIC	AMPERE INTERRUPTING CAPACITY	LTS LIGHTING
ANN	ANNUNCIATOR	M MAGNETIC STARTER COIL
AS	AMPERE SWITCH	MAX MAXIMUM
AT	AMPERE TRIP	MC METAL CLAD CABLE
ATS	AUTOMATIC TRANSFER SWITCH	MCB MAIN CIRCUIT BREAKER
AWG	AMERICAN WIRE GAUGE	MCC MOTOR CONTROL CENTER
BATT	BATTERY	MCM THOUSAND CIRCULAR MILS
BC	BARE COPPER	MDP MAIN DISTRIBUTION PANEL
BCW	BARE COPPER WIRE	MFR MANUFACTURER
BKBD	BACKBOARD	MH METAL HALIDE
BKR	BREAKER	MIN MINIMUM
BLDG	BUILDING	MLO MAIN LUGS ONLY
C	CONDUIT	MTD MOUNTED
CATV	CABLE TELEVISION	MTR MOTOR
CB	CIRCUIT BREAKER	MTS MANUAL TRANSFER SWITCH
CEC	CALIFORNIA ELECTRICAL CODE	
CKT	CIRCUIT	N (N) NEW
CLG	CEILING	NB NEUTRAL BUS
CON	CONDUIT ONLY	NEC NATIONAL ELECTRIC CODE
COM	COMMON	NEF NON-FUSED
COMM	COMMUNICATIONS	NIC NOT IN CONTRACT
CONN	CONNECT	NO NORMALLY OPEN
CONT	CONTINUE	NOT NORMALLY CLOSED
CT	CURRENT TRANSFORMER	NTS NOT TO SCALE
CU	COPPER	
D	DEMOLISH/DEMO	P POLE(S)
DB	DIRECT BURIED	PF POWER FACTOR
DEF	DUAL ELEMENT FUSE	PI PRIMARY
DISC	DISCONNECT	PT POTENTIAL TRANSFORMER
DN	DISTRIBUTION	PWR POWER
DIST	DOWN	PH PHASE
DP	DISTRIBUTION PANEL	R RELOCATE OR REMOVE
DPDT	DOUBLE-POLE DOUBLE-THROW	RECP RECEPTACLE
DPST	DOUBLE-POLE SINGLE-THROW	RGS RIGID GALVANIZED STEEL CONDUIT
DWG	DRAWING	R RELOCATE OR REMOVE
E (E)	EXISTING	RMS ROOM
ELEC	ELECTRICAL	RT RADIO/TOUCH SYSTEM
EM	EMERGENCY	SCA SHORT CIRCUIT AMPS
EMER	EMERGENCY	SEC SECONDARY
EWT	ELECTRICAL METALLIC TUBING	SEC SMOKE FIRE DAMPER
ENC	ENCLOSURE	SPKR SPEAKER
EPO	EMERGENCY POWER OFF	SQ FT SQUARE FEET
EQUIP	EQUIPMENT	SUSP SUSPENDED(ED)
EX	EXISTING	SW SWITCH
EXIST	EXISTING	SWBD SWITCHBOARD
F	FUSE(D)	SWGR SWITCHGEAR
FA	FIRE ALARM	TC TIME CLOCK
FACP	FIRE ALARM CONTROL PANEL	TEL TELEPHONE
FATC	FIRE ALARM TERMINAL CABINET	TEMP TEMPORARY
FLA	FULL LOAD AMPERES	TTB TELECOMMUNICATIONS BACKBOARD
FLEX	FLEXIBLE	TMH TELECOMMUNICATIONS MANHOLE
FLR	FLOOR	
G	GROUND	TYP TYPICAL
GALV	GALVANIZED(D)	TVSS TRANSIENT VOLTAGE
GEN	GENERATOR	UNO UNLESS NOTED OTHERWISE
GFI	GROUND FAULT CIRCUIT INTERRUPTER	
GND	GROUND	UG UNDERGROUND
HOA	HIGH INTENSITY DISCHARGE HAND-OFF-AUTOMATIC	UON UNLESS NOTED OTHERWISE
HP	HORSEPOWER, HEAT PUMP	UNO UNLESS NOTED OTHERWISE
HPF	HIGH POWER FACTOR	V VOLT, VOLTS
HPS	HIGH PRESSURE SODIUM	V VOLT, VOLTS
HV	HEATING, VENTILATING AND AIR CONDITIONING	VAMP VOLT-AMPERES
HZ	HERTZ	VAV VARIABLE AIR VOLUME
IC	INTERRUPTING CAPACITY IN AMPS RMS	VFD VARIABLE FREQUENCY DRIVE
IG	ISOLATED GROUND	VLIF VERIFY LOCATION IN FIELD
JB,J	JUNCTION BOX	WT WATERTIGHT
KA	THOUSAND AMPERES	W WATT OR WIRE
		WI WITH
		WP WEATHER PROOF
		XFMR TRANSFORMER, TRANSF.

SEQUENCE OF OPERATIONS						
ACTION	DEVICE	120 VOLT POWER FAILURE	SYSTEM TROUBLE/ SYSTEM FAULT or OPEN	MANUAL PULL STATION	AREA DETECTOR	
		YES	YES	NO	NO	
SOUND CONTROL PANEL TROUBLE BUZZER		YES	YES	NO	NO	
SOUND CONTROL PANEL SUPERVISORY BUZZER		NO	NO	NO	NO	
SOUND CONTROL PANEL ALARM BUZZER		NO	NO	YES	YES	
ACTIVATE RELAY FOR CENTRAL STATION MONITORING		YES	YES	YES	YES	
ANNUNCIATE AT FIRE ALARM CONTROL PANEL (ALARM or TROUBLE)		YES	YES	YES	YES	
ANNUNCIATE AT REMOTE ANNUNCIATOR PANEL (ALARM or TROUBLE)		YES	YES	YES	YES	
ACTIVATE NOTIFICATION (AUDIBLE/VISUAL) ALARM SIGNAL THROUGHOUT BLDG		NO	NO	YES	YES	
NOTIFY FIRE DEPARTMENT VIA MONITORING STATION		NO	NO	YES	YES	

APPLICABLE CODES

APPLICABLE CODES AND STANDARDS:

APPLICABLE CODES AS OF JANUARY 1, 2023:

2025

CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR

2022

CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR

2022

CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR

2022

CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR

2022

CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR

2022

CALIFORNIA ENERGY CODE, PART 6, TITLE 24 CCR

2022

CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR

2022

CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR

2022

CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR

2022

CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR

TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

APPLICABLE STANDARDS:

FOR A LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS, REFER TO CBC CHAPTER 35 AND CFC CHAPTER 80.

# OF CONDUCTORS, MATERIAL & CONDUIT SIZE

WIRE DESIGNATION	WIRE IN CONDUIT	WIRE IN CONDUIT UNDERGROUND/WET LOC.	UNDERGROUND/WET WIRE DESIGNATION
<u>INIT. LOOP</u>	TWO PAIR 2 CONDUCTOR #16 UNSHIELDED WEST PENN #20590	TWO PAIR 2 CONDUCTOR #16 FPL UNSHIELDED WEST PENN #A0-225	<u>INIT. LOOP</u> FUZU
<u>POWER CKT.</u> B.P	2 CONDUCTOR #14 THHN STRANDED	2 CONDUCTOR #14 THHN TYPE THWN	<u>POWER CKT.</u> PU
<u>NETWORK CONTROL</u> C	2 CONDUCTOR #12 THHN STRANDED	2 CONDUCTOR #12 STRANDED TYPE THWN	<u>NETWORK CONTROL</u> CU
<u>ANN/TELE</u> D.T	2 CONDUCTOR #18 FPL TWISTED/ SHIELDED WEST PENN #A0-253	2 CONDUCTOR #18 FPL TWISTED/ SHIELDED WEST PENN #A0-253	<u>ANN/TELE</u> DU,TU
<u>LOW LEV. AUD.</u> X.Y	2 CONDUCTOR #18 FPL TWISTED/ SHIELDED WEST PENN #A0-253	2 CONDUCTOR #18 FPL TWISTED/ SHIELDED WEST PENN #A0-253	<u>LOW LEV. AUD.</u> XU,YU
<u>VISUAL</u> V	2 CONDUCTOR #12 THHN STRANDED	2 CONDUCTOR #12 STRANDED TYPE THWN	<u>VISUAL</u> VU
<u>AUDIBLE</u> A	2 CONDUCTOR #12 THHN STRANDED	2 CONDUCTOR #12 STRANDED TYPE THWN 6 STRAND	<u>AUDIBLE</u> AU
<u>INIT. LOOP</u> F	6 STRAND 62.5/125 MICRON MULTIMODE FIBER OPTIC CABLE	62.5/125 MICRON MULTIMODE FIBER OPTIC CABLE	<u>INIT. LOOP</u> F

NOTE:

1.

ALL WIRE MODEL NUMBERS ARE WEST PENN OR EQUIVALENT BY OTHER MANUFACTURER UNLESS OTHERWISE NOTED.

2.

COLOR CODE ALL FIRE ALARM CONDUCTORS PER DISTRICT STANDARDS. VERIFY COLOR SCHEMES PRIOR TO ORDERING FIRE ALARM CONDUCTORS.

SCOPE OF WORK

MODIFICATION OF EXISTING FIRE ALARM SYSTEMS DUE TO NEW DEVICES ADDED

ELECTRICAL DRAWING LIST

FA0.01

FIRE ALARM COVER SHEET

FA0.02

FIRE ALARM DETAILS

FA0.03

FIRE ALARM RISERS

FA1.01

FIRE ALARM PLANS

PLAN REVIEW NOTES

1.0

FIRE ALARM PLAN REVIEW

A.

FIRE ALARM PLAN REVIEW

1.

AS PART OF THE FIRE ALARM PLAN REVIEW, PLANS AND SPECIFICATIONS FOR THE FIRE ALARM SYSTEM HAVE BEEN INCLUDED FOR REVIEW AND COMMENT BY THE DIVISION OF THE STATE ARCHITECT, FIRE & LIFE SAFETY.

2.

THE FLOOR PLANS AND SPECIFICATIONS INCLUDE THE FOLLOWING: LOCATIONS OF ALL ALARM-INITIATING AND SIGNALING DEVICES, CONTROL AND TROUBLE SIGNALING EQUIPMENT (FIRE ALARM CONTROL PANEL, BUILDING ANNUNCIATION (FIRE ALARM ANNUNCIATOR).

B.

FIRE ALARM COMPONENTS

1.

PROVIDE CALIFORNIA STATE FIRE MARSHAL LISTING SHEETS AND U.L. LISTING NUMBERS FOR EACH COMPONENT.

2.

EQUIPMENT POWER CONNECTIONS.

3.

RISER DIAGRAM SHOWING EACH COMPONENT.

4.

VOLTAGE DROP CALCULATIONS.

5.

POWER CONNECTIONS TO APPLICABLE COMPONENTS.

6.

WIRE AND/OR CABLING TYPES AND SIZES.

7.

PROVIDE CATALOG DATA SHEETS FOR ALL FIRE ALARM SYSTEM COMPONENTS.

8.

CONTRACTOR TO FURNISH STATEMENT OF COMPLIANCE BEFORE REQUESTING FINAL APPROVAL OF INSTALLATION IN ACCORDANCE WITH CFC 901.2.1.

9.

A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE PROJECT INSPECTOR AND, IF APPLICABLE, LOCAL FIRE AUTHORITY.

10.

THE INSTALLER SHALL SUPPLY THE OWNER WITH A WRITTEN OPERATING, TESTING AND MAINTENANCE INSTRUCTIONS, POINT-TO-POINT AS BUILT DRAWINGS AND EQUIPMENT SPECIFICATIONS. AS BUILT RECORDS SHALL BE MAINTAINED ON PREMISES FOR A MINIMUM OF THREE YEARS PER CFC 901.6.2.

C.

SCOPE OF WORK

1.

INSTALL A MANUAL, ADDRESSABLE, FIRE ALARM SYSTEM WITHIN ALL BUILDINGS IN SCOPE OF PROJECT AS DEFINED PER CFC 907.2.3 AND NFPA 72.

2.

FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72. THE SUPERVISING STATION SHALL BE U.L. LISTED AS UJFX (CENTRAL STATION) PER CFC 907.2.3.5 & 907.7.5.2.

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 04-124525 INC.  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 12/03/2025

CONSULTANT

STAMP

CLIENT

RANCHO SANTIAGO  
COMMUNITY COLLEGE DISTRICT  
**VL107**  
**AP STUDENT CENTER**  
**RECONFIGURATION**  
SANTA ANA COLLEGE  
1530 W. 17TH ST  
SANTA ANA, CA 92706

100% CD

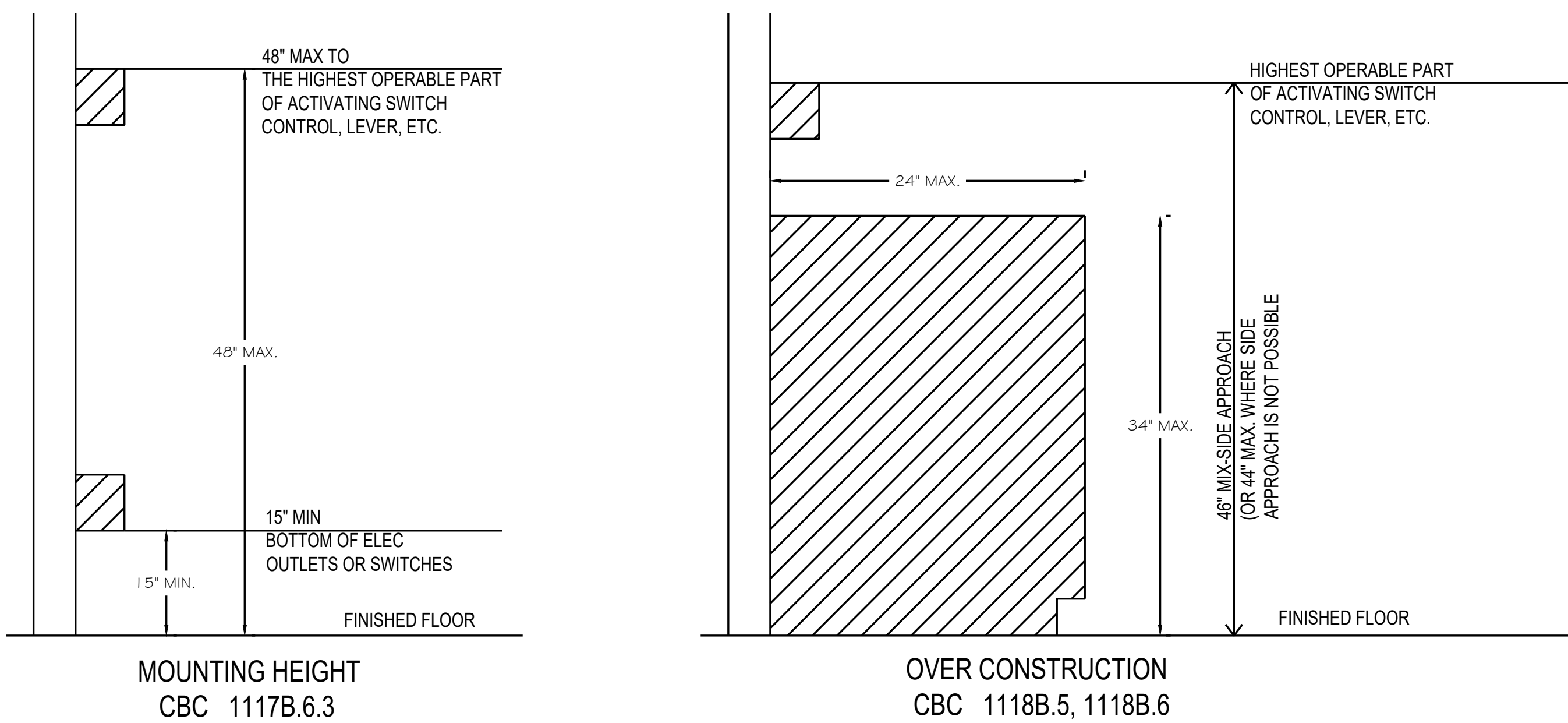
REVISIONS  
1 DSA Back Check 09/05/25  
2 DSA Back Check 10/24/25

MMA NO 25801  
DATE: 05/12/2025  
DRAWN AM/AY  
CHECKED CH/TH

FIRE ALARM  
COVER SHEET

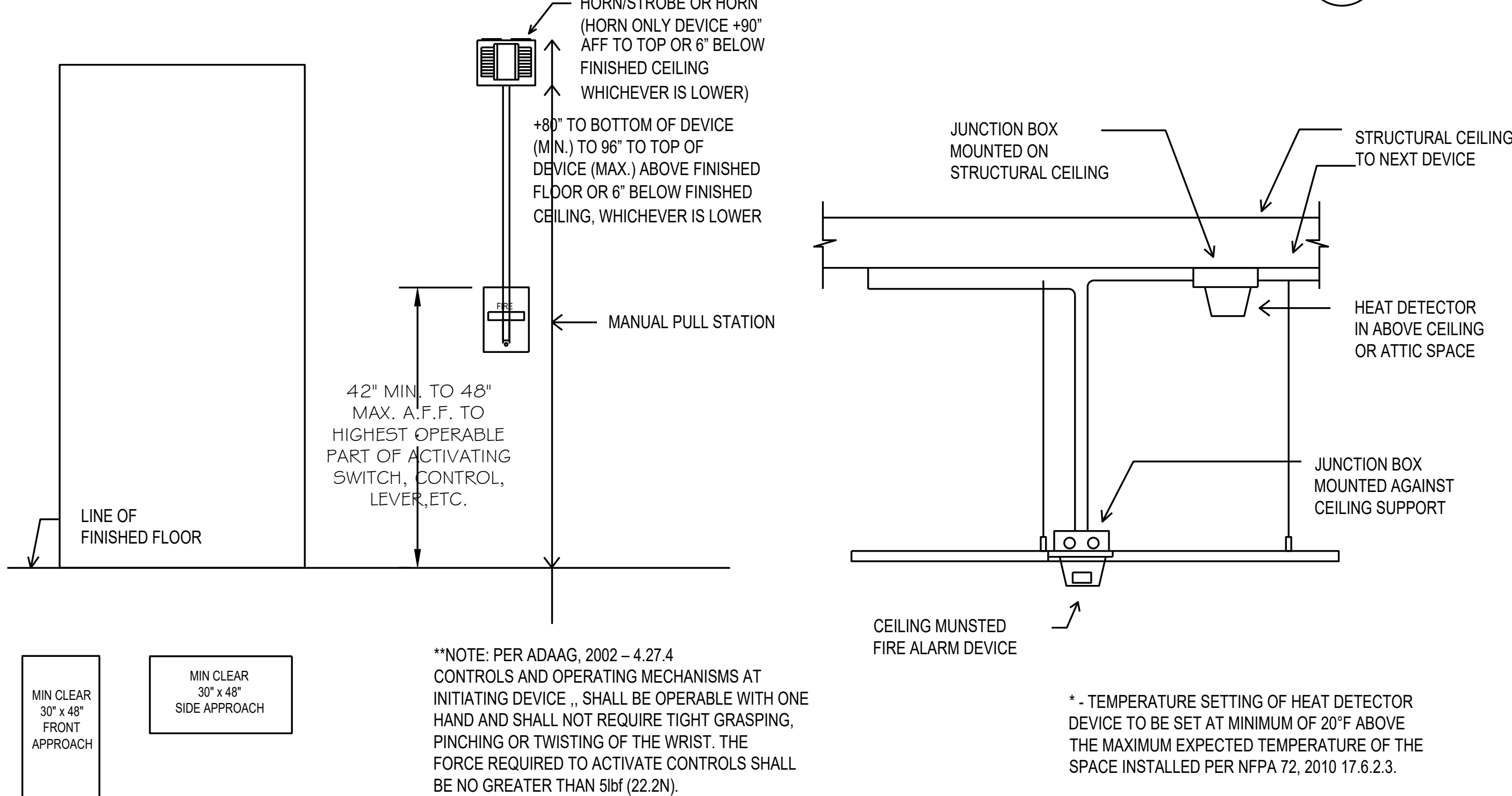
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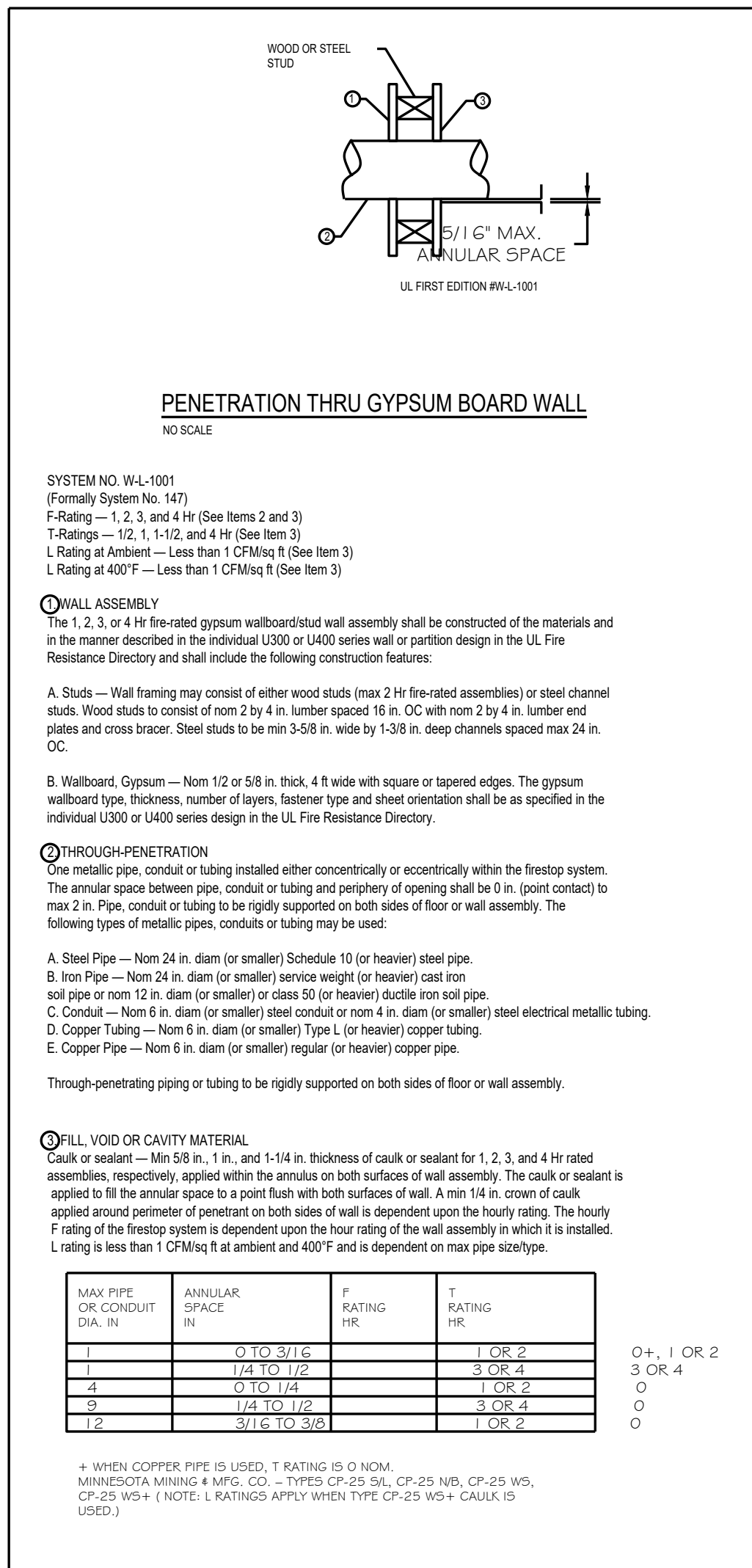
MOUNTING HEIGHT OVER OBSTRUCTION DETAIL

SCALE: N.T.S

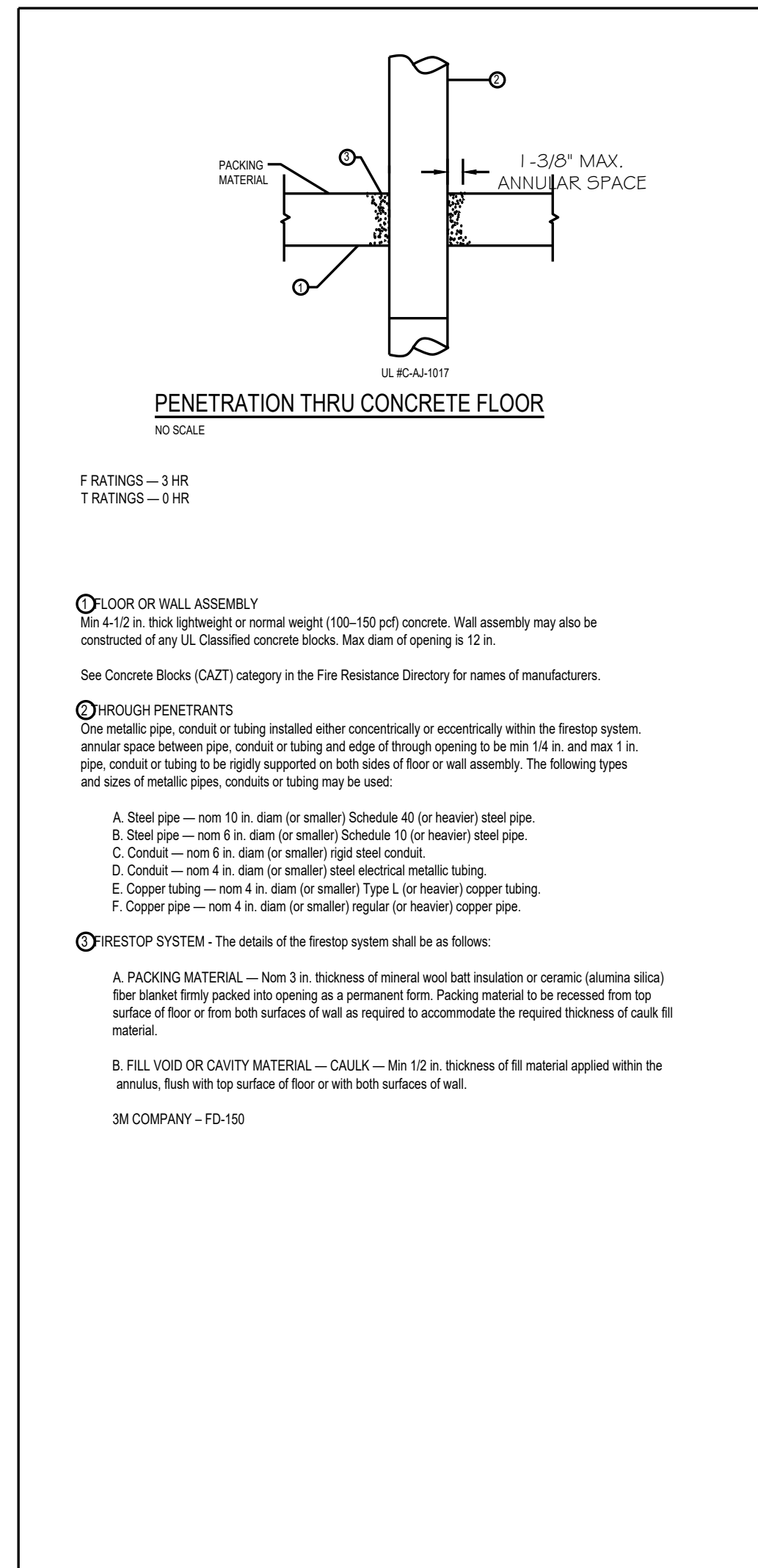


DEVICE MOUNTING DETAIL

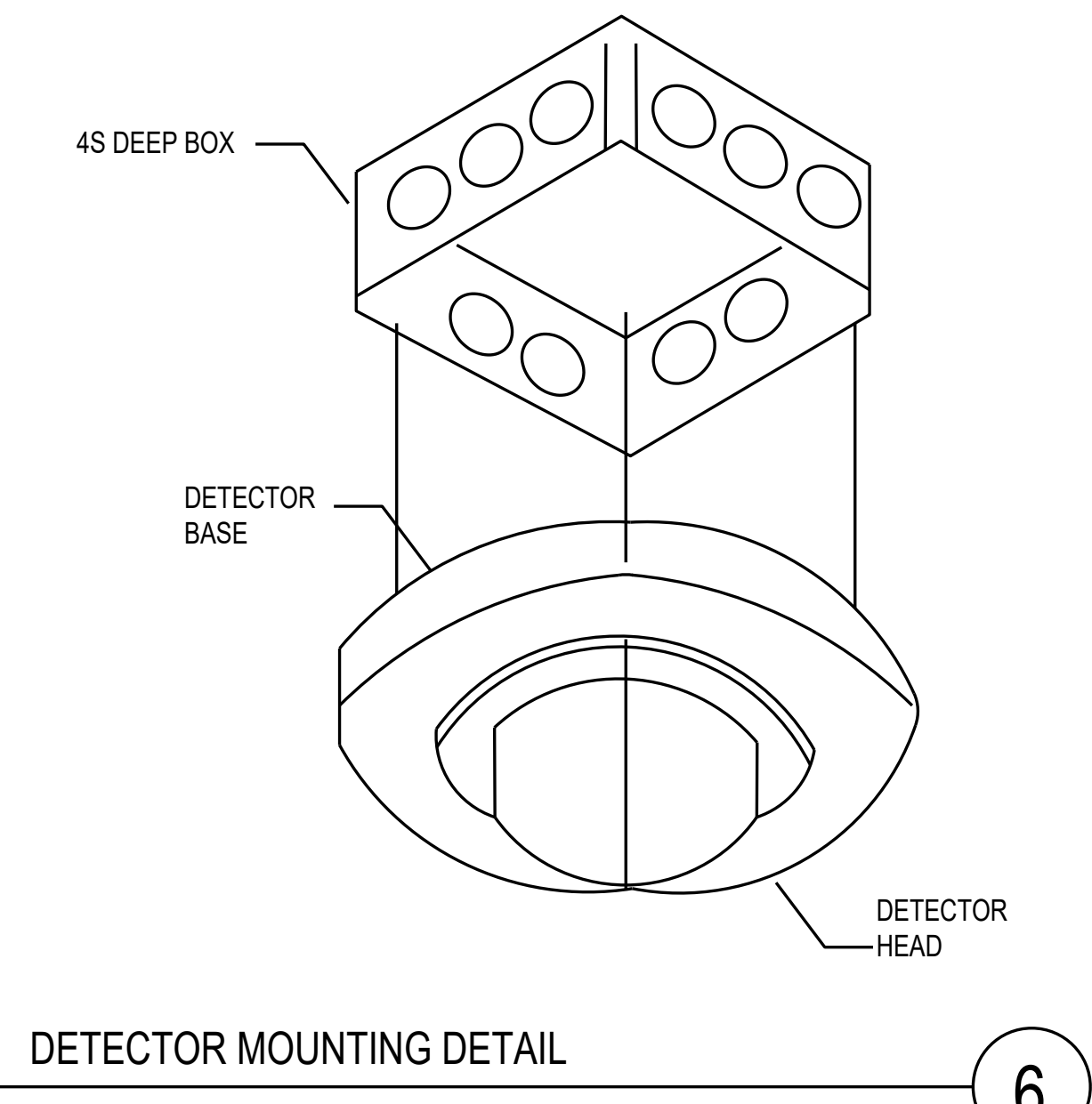
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THROUGH RATED WALL OR FLOOR PENETRATIONS (U.L. LIATINGS)

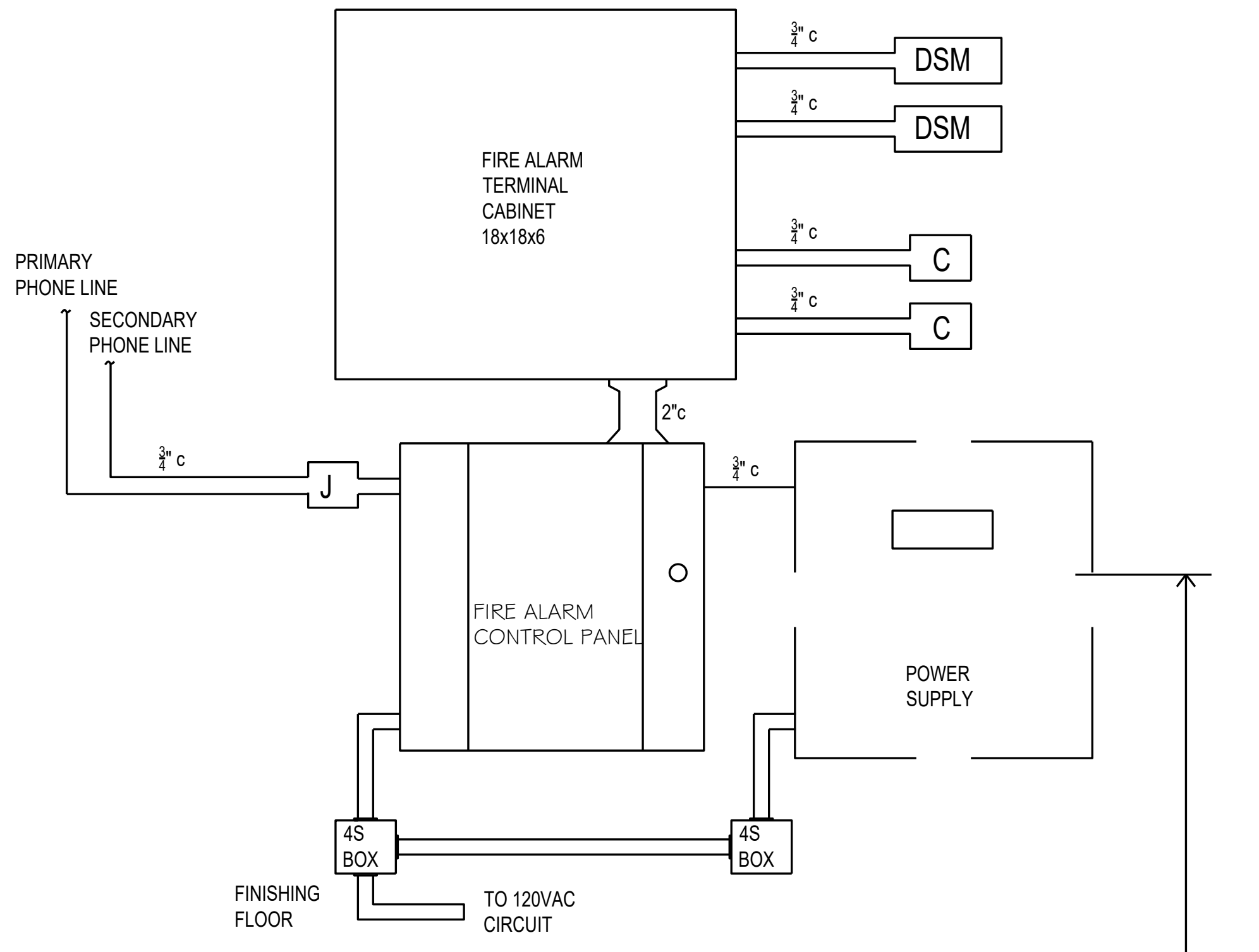


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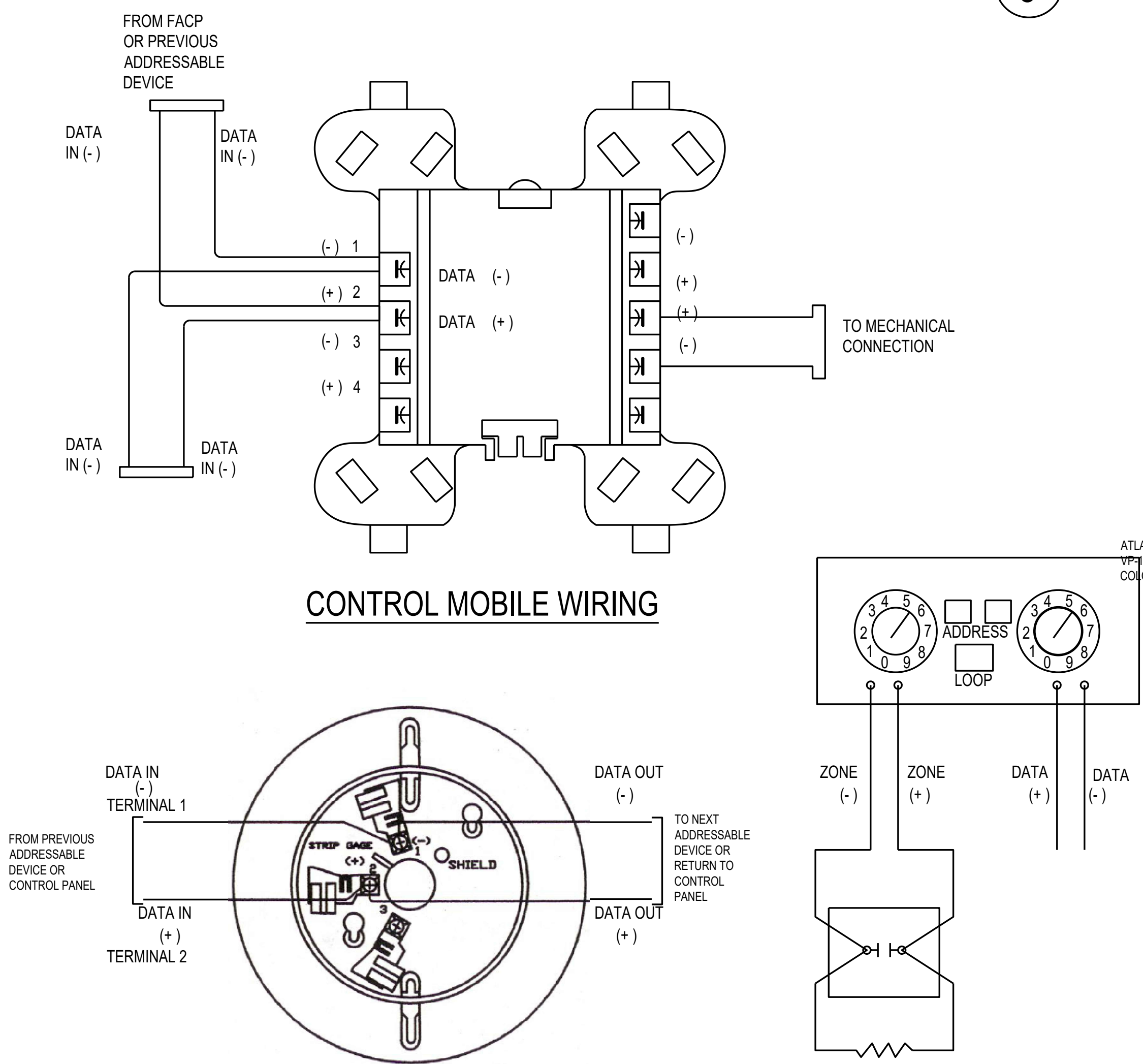
DETECTOR MOUNTING DETAIL

6



FIRE ALARM PANEL/POWER SUPPLY MOUNTING ELEVATION

5

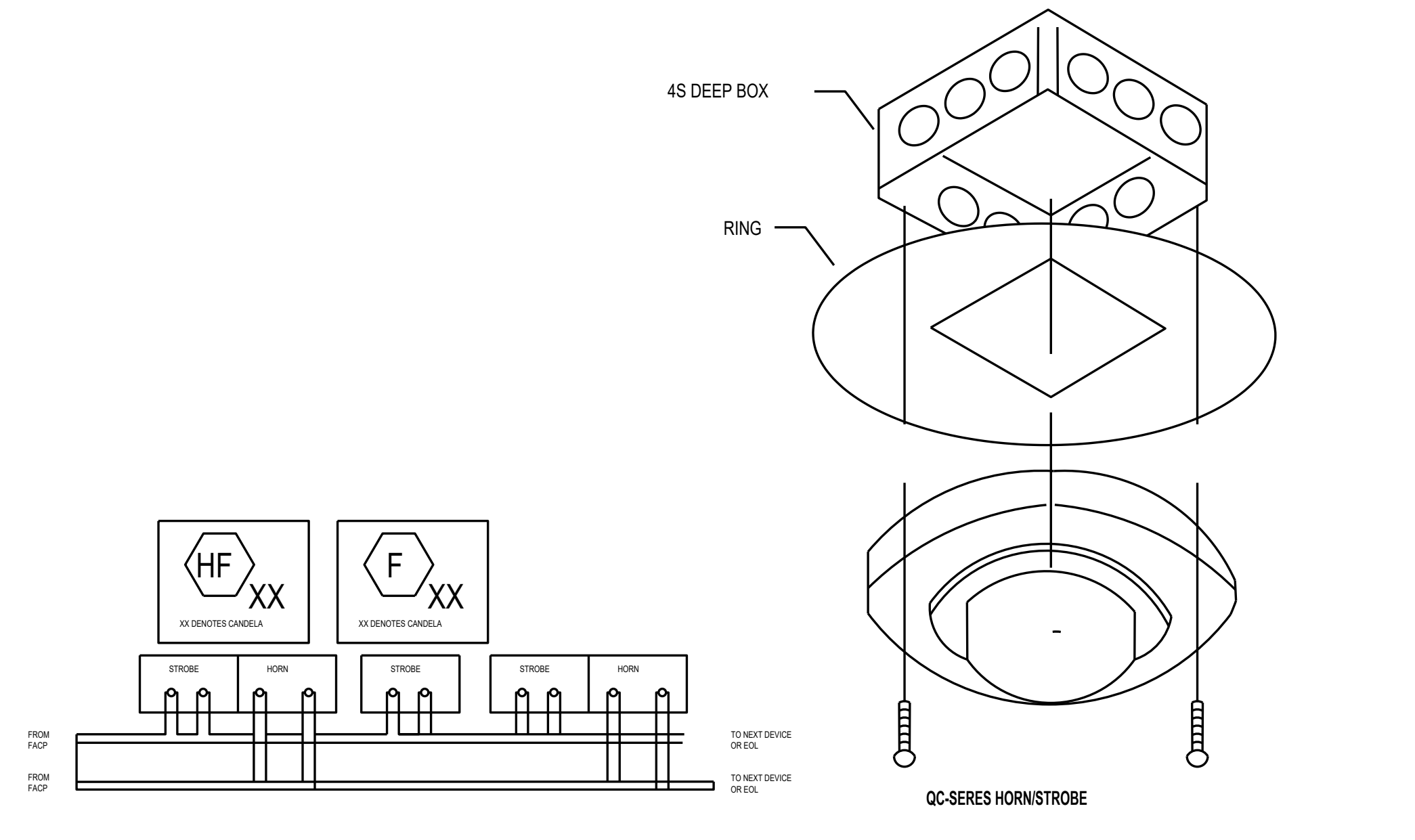


ADDRESSABLE SMOKE/HEAT DETECTOR DEVICE WIRING DETAILS

SCALE: N.T.S

MANUAL PULL STATION

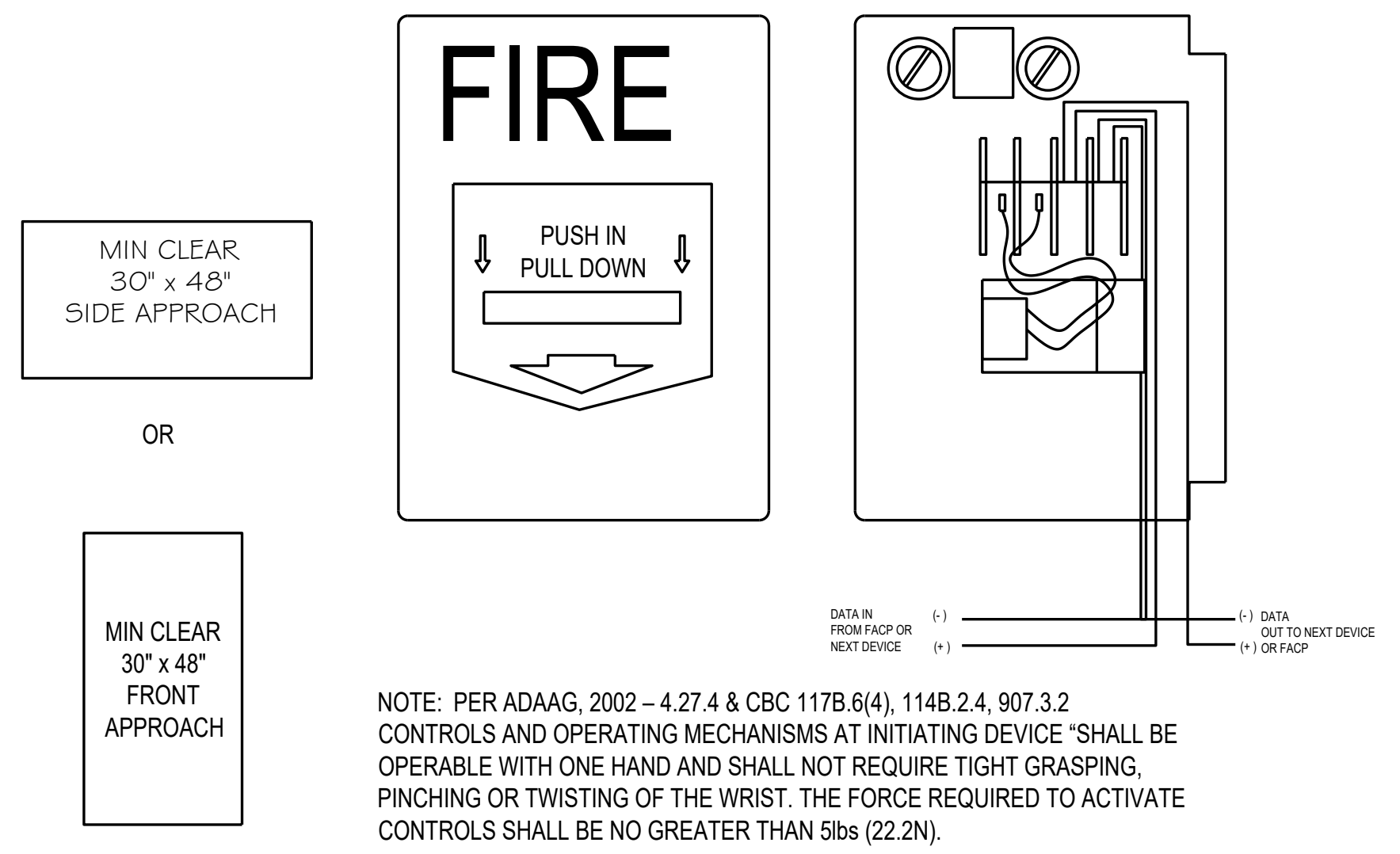
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CEILING MTD. AUDIBLE/VISUAL

SCALE: N.T.S

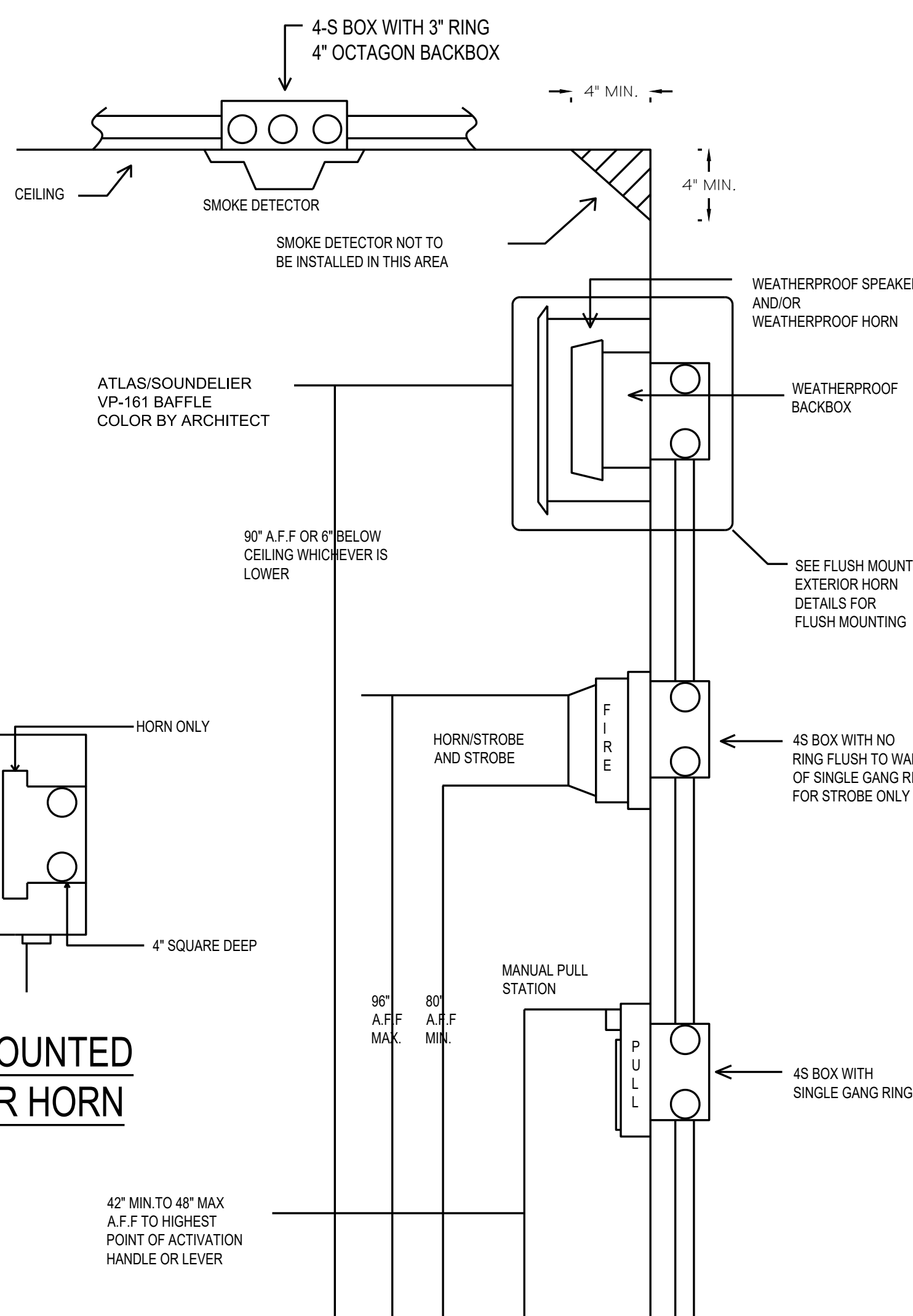
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PULL STATION DETAILS

SCALE: N.T.S

2



FLUSH MOUNTED EXTERIOR HORN

GENERAL NOTES:

- THE ENTIRE LENS OF STROBE LIGHTS MUST BE BETWEEN 80" AND 96" ABOVE FLOOR FINISH. (2010 NFPA 72 18.5.4)
- MANUAL FIRE ALARM BOXES SHALL BE INSTALLED IN ACCORDANCE WITH CFC SECTIONS 907.3.1 THROUGH 907.3.5.
- WHEN APPLICABLE, MANUAL FIRE ALARM BOXES SHALL BE LOCATED NOT MORE THAN 5 FEET FROM THE ENTRANCE TO EACH EXIT. ADDITIONAL MANUAL FIRE ALARM BOXES SHALL BE LOCATED SO THAT TRAVEL DISTANCE TO THE NEAREST BOX DOES NOT EXCEED 200 FEET. (CFC 907.3.1)

MOUNTING HEIGHT DETAIL

SCALE: N.T.S

1

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 04-124525 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 12/03/2025

MORETO MATHISON & ASSOCIATES  
ARCHITECTS  
449 W FOOTHILL BLVD  
SUITE 281, GLENDALE CA 91741  
(626) 594-0307

CONSULTANT  
  
HARITON ENGINEERING  
4055 FARMGROVE BLVD SUITE 400  
ROCKFORD, CA 95765  
TEL: (916) 935-1300 FAX: (916) 935-1301  
WWW.HARITONENGINEERING.COM

STAMP

CLIENT  
  
RANCHO SANTIAGO  
COMMUNITY COLLEGE DISTRICT  
VL107  
AP STUDENT CENTER  
RECONFIGURATION  
SANTA ANA COLLEGE  
1530 W. 17TH ST  
SANTA ANA, CA 92706

100% CD

REVISIONS  

NO.	DESCRIPTION	DATE
1	1DSA Back Check	09/05/25
2	2 DSA Back Check	10/24/25

MMA NO 25801  
DATE: 05/12/2025  
DRAWN: AM/AY  
CHECKED: CH/TH

FIRE ALARM DETAILS

FA0.02





BATTERY SIZING CALCULATION				
PROJECT NAME:		SANTA ANA COLLEGE		
PANEL LOCATION:		RELOCATABLE		
DATE PERFORMED:		November 20, 2013		
<u>FACP-B</u>				
QTY.	DEVICE NAME	STD BY (AMPS)	ALARM (AMPS)	
1	CONTROL PANEL	0.2500 0.0900	0.2900	0.0900
1	VOICE COMMAND	0.4400 0.0000	0.4400	0.0420
1	AUDIO AMPLIFIER	0.4000 0.0000	0.5000	0.1890
1	NETWORK MODULE	0.1100 0.0000	0.1100	0.5400
42	PULL STATION	0.0004 0.0000	0.0004	0.0000
3	SMOKE DETECTOR	0.0004 0.0000	0.1004	1.3200
2	SPEAKER (EXTERIOR)	0.0000 0.0000	0.0420	0.0000
12	SPEAKER (INTERIOR)	0.0000 0.0000	0.0210	0.6600
19	15cd STROBE (WALL)	0.0000 0.0000	0.0600	1.1400
10	30cd STROBE (WALL)	0.0000 0.0000	0.0920	0.0000
8	75cd STROBE (WALL)	0.0000 0.0000	0.1650	1.3200
5	110cd STROBE (WALL)	0.0000 0.0000	0.2200	1.1000
		0.0000 0.0000	0.0000	0.0000
		0.0000 0.0000	0.0000	0.0000
		0.0000 0.0000	0.0000	0.0000
TOTALS =		1.2568	5.5318	
STAND-BY LOAD =		1.2568	ALARM LOAD = 5.5318 AMPS	
STAND-BY TIME = 24			15/60 HRS	
STAND-BY = 30.16		+	ALARM = 1.26 AMPS HRS	
TOTAL = STAND-BY +		ALARM		
= 30.16		+	1.26	
			31.43 Ah (AMPS HRS)	
MULTIPLY BY DERATING FACTOR OF 1.25 =		39.28	Ah (AMPS HRS)	
MINIMUM BATTERY SIZE = 39.28		AMPERE HOURS		
PROVIDE (2) 50.0 Ah 12VDC BATTERIES AS REQUIRED FOR 24VDC OPERATION				

**VOLTAGE DROP CALCULATIONS GENERAL NOTES:**

- 21.6 = CONSTANT (RESISTANCE OF CONDUCTOR)

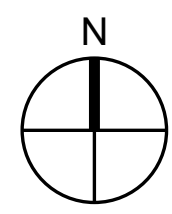
8 PROVIDE DEDICATED FIRE ALARM 120 VOLT CIRCUIT CONNECTED TO LOCKED-ON BREAKER. THE CIRCUIT BREAKER SHALL BE LOCKED ON WITH APPROVED LOCKING DEVICE, MARKED RED AND IDENTIFIED AS "FIRE ALARM CONTROL CIRCUIT". (NFPA 72 10.5.5.2)

THE EXISTING CAMPUS FIRE ALARM SYSTEM SHALL BE MAINTAINED AND OPERATIONAL AT ALL TIMES DURING ALTERATIONS AND CONSTRUCTION. WHEN PORTIONS OF THE SYSTEM REQUIRE ALTERATIONS, THE REMAINDER OF THE SYSTEM SHALL BE KEPT IN SERVICE. IF NECESSARY TO SHUT DOWN ENTIRE FIRE ALARM SYSTEM, CONTRACTOR SHALL PROVIDE A FIRE WATCH FOR ALL OCCUPIED AREAS OF WORK WHERE THE REQUIRED FIRE ALARM SYSTEM IS OUT OF SERVICE FOR THE DURATION OF THE SYSTEM OUTAGE. FIRE WATCH AND SYSTEM/EQUIPMENT IDENTIFICATIONS SHALL BE PER 2010 CFC 901.7. LOCAL FIRE AUTHORITY SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF ANY SHUT DOWN.

SANTA ANA COLLEGE  
1530 W. 17TH ST  
SANTA ANA, CA 92706

## FA0.03





**FA1.00**