

San Rafael City Schools



SRCS Wellness & Restroom
Modernization

320 Nova Albion Way, San Rafael, CA 94903

DSA Resubmittal

03/08/2024

HED

DSA FILE: 21-H1
DSA #: 01-121295
PTN #: 65466-53

2023-SR001-002

NOTES

1. **DSA APPROVED PLANS AND SPECIFICATIONS**
THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE DSA APPROVED PLANS AND SPECIFICATIONS. THE DSA APPROVED PLANS AND SPECIFICATIONS SHALL NOT BE CHANGED OR MODIFIED WITHOUT THE APPROVAL OF THE DIVISION OF THE STATE ARCHITECT (DSA) PER SECTION 4-338, PART 1, TITLE 24, C.C.R.
CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD).
2. **ADDITIONAL DSA REQUIREMENTS**
ALL SECTION NUMBERS BELOW REFER TO PART 1, CHAPTER 4, PART 1, TITLE 24, C.C.R.:
- (A) CHANGES TO THE DSA APPROVED PLANS AND SPECIFICATIONS BY ADDENDA AND CONSTRUCTION CHANGE DOCUMENTS SHALL BE SUBMITTED AND APPROVED BY DSA PER SECTION 4-338.
- (B) CLASS 3 DSA CERTIFIED PROJECT INSPECTOR EMPLOYED BY THE DISTRICT AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF WORK PER SECTION 4-333(B) AND 4-342.
- (C) A DSA ACCEPTED TESTING LABORATORY EMPLOYED BY THE DISTRICT SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT PER SECTION 4-335.
- (D) SPECIAL INSPECTION PER SECTION 4-333(C) AND 4-335.
- (E) CONTRACTOR SHALL SUBMIT VERIFIED REPORTS PER SECTION 4-336 AND 4-343(C).
- (F) ADMINISTRATION OF CONSTRUCTION PER PART 1, TITLE 24, C.C.R.
(a) DUTIES OF ARCHITECT, STRUCTURAL ENGINEER, OR PROFESSIONAL ENGINEER PER SECTION 4-333(A) AND 4-341.
(b) DUTIES OF CONTRACTOR PER SECTION 4-343.
(c) VERIFIED REPORTS PER SECTION 4-336.
- (G) A COPY OF PART I AND II OF TITLE 24 SHALL BE KEPT AND AVAILABLE IN THE FIELD DURING CONSTRUCTION.
- (H) DSA SHALL BE NOTIFIED ON START OF CONSTRUCTION PER SECTION 4-331.
- (I) SUPERVISION BY THE DIVISION OF THE STATE ARCHITECT PER SECTION 4-334.
- (J) DSA IS NOT SUBJECT TO ARBITRATION.
- (K) ALL DSA FEES SHALL BE PAID FOR BY OWNER.
- (L) GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
3. **SPECIFICATIONS**
THE SPECIFICATIONS ARE A VITAL PART OF THESE CONTRACT DOCUMENTS. THEY ARE FOUND IN THE BOUND PROJECT MANUAL. THE CONTRACTOR AND THEIR PERSONNEL SHALL BECOME INTIMATELY FAMILIAR WITH THE SPECIFICATIONS PRIOR TO BIDDING THE PROJECT AND STARTING ANY CONSTRUCTION.
4. **DIMENSIONS**
(A) DIMENSIONS SHALL GOVERN ON WORKING DRAWINGS. DO NOT SCALE DRAWINGS.
(B) ALL DIMENSIONS ARE APPROXIMATE DUE TO THE AS-BUILT CONDITIONS VARYING FROM ACTUAL FIELD CONDITIONS. ALL DIMENSIONS ARE TO BE FIELD VERIFIED PRIOR TO COMMENCING WORK.
5. **OF THE SAME CHARACTER**
IN THE EVENT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE DRAWINGS OR CALLED FOR IN THE NOTES OR SPECIFICATIONS, THEN THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE SHOWN OR CALLED FOR.
6. **CONFLICTS BETWEEN DRAWINGS & SPECIFICATIONS**
SHOULD CONFLICTS OCCUR BETWEEN THE DRAWINGS AND SPECIFICATIONS, DRAWINGS SHALL GOVERN IN MATTERS OF DIMENSION OR QUANTITY; SPECIFICATIONS SHALL GOVERN IN MATTERS OF MATERIALS OR FINISHES.
7. **MOST EXPENSIVE REQUIREMENT**
IN CASE OF DISCREPANCIES OR CONFLICTS IN INFORMATION OR REQUIREMENTS WITHIN THE DRAWINGS, WITHIN THE SPECIFICATIONS, OR BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE MOST EXPENSIVE REQUIREMENT SHOWN OR SPECIFIED SHALL BE THE BASIS OF THE CONTRACT AND NOTED IN THE BID.
8. **SUBCONTRACTORS & CONSTRUCTION DOCUMENTS**
(A) THE GENERAL CONTRACTOR SHALL PROVIDE OR MAKE AVAILABLE A COMPLETE SET OF CONSTRUCTION DOCUMENTS (INCLUDING DRAWINGS AND SPECIFICATIONS) TO EVERY SUBCONTRACTOR BIDDING ANY PORTION OF THIS PROJECT.
(B) THE CONSTRUCTION DOCUMENTS SHALL NOT BE SEPARATED INTO DISCIPLINES (ARCHITECTURAL, MECHANICAL, ELECTRICAL, ETC.) FOR THE PURPOSES OF SUBCONTRACTOR BIDDING.
(C) THE GENERAL CONTRACTOR SHALL REQUIRE BIDDING SUBCONTRACTOR TO REVIEW THE ENTIRE SET OF CONSTRUCTION DOCUMENTS TO OBTAIN CLARITY ON THE COMPLETE SCOPE OF THEIR WORK, AND REFER TO CROSS DISCIPLINE DRAWINGS FOR FULL COORDINATION OF WORK WITH OTHER TRADES, AND TO BE AWARE OF ALL WORK WHICH DOES NOT APPEAR WITHIN THE PARTICULAR DISCIPLINE DRAWINGS FOR THE SUBCONTRACTOR TRADE.
(D) FURTHERMORE, THE GENERAL CONTRACTOR SHALL ENSURE THAT EACH SUBCONTRACTOR WORKING ON THE PROJECT MAINTAINS A FULL SET OF THE CONSTRUCTION DOCUMENTS THROUGHOUT THE CONSTRUCTION OF THE PROJECT.
9. **PLANS AVAILABLE ON SITE**
(A) DSA APPROVED PLANS SHALL BE KEPT IN A PLAN BOX IN THE FIELD OFFICE AND SHALL NOT BE USED BY WORKERS.
(B) ALL CONSTRUCTION SETS SHALL BE KEPT UP TO DATE, AND REFLECT THE SAME INFORMATION AS THE GENERAL CONTRACTOR'S SET.
(C) THE CONTRACTOR SHALL ALSO MAINTAIN, IN GOOD CONDITION, ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA AND CONSTRUCTION CHANGE DOCUMENTS ON THE PREMISES AT ALL TIMES. THESE ARE TO BE UNDER THE CARE OF THE JOB SUPERINTENDENT.
10. **REVIEW PLANS & EXISTING SITE CONDITIONS**
THE CONTRACTOR SHALL THOROUGHLY REVIEW PLANS AND EXISTING SITE CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES, ERRORS, OR OMISSIONS PRIOR TO CONSTRUCTION.
11. **VERIFY ALL EXISTING CONDITIONS**
PRIOR TO CONSTRUCTION AND GRADING, VERIFY ALL EXISTING CONDITIONS AND CONTACT UTILITY COMPANIES AND AFFECTED CITY AGENCIES, CONTACT "UNDERGROUND SERVICE ALERT".
12. **CONTRACTOR'S RESPONSIBILITIES**
(A) NEITHER THE ARCHITECT, NOR THE ENGINEERS, NOR THE OWNER SHALL BE RESPONSIBLE FOR: CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONTRACTOR; SAFETY PRECAUTIONS AND PROGRAMS OF CONTRACTOR; THE ACTS OR OMISSIONS OF CONTRACTOR, OR THE FAILURE OF CONTRACTOR TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
(B) GENERAL CONTRACTOR IS RESPONSIBLE FOR REVIEWING AND FIELD VERIFYING DEMOLITION REQUIREMENTS IN RELATION TO CONSTRUCTION DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION REQUIRED TO INSTALL NEW WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY SHORING, BRACING AND SUPPORT SYSTEMS NECESSARY TO INSTALL NEW WORK. THE ARCHITECT IS TO BE NOTIFIED OF ANY AND ALL CONFLICTS, DISCREPANCIES OR PROBLEMS.
(C) CONTRACTOR TO REPAIR AND PATCH ALL AREAS DISTURBED DUE TO THIS PROJECT'S SCOPE OF WORK.

PROJECT TEAM

- OWNER**
SAN RAFAEL CITY SCHOOLS
SAN RAFAEL HIGH SCHOOL DISTRICT
310 NOVA ALBION WAY
SAN RAFAEL, CA 94903
TEL (415) 485-2445
- ARCHITECT OF RECORD**
HARLEY ELLIS DEVEREAUX
417 MONTGOMERY STREET SUITE 400
SAN FRANCISCO, CA 94104
TEL (415) 981-2345
- MECHANICAL & PLUMBING ENGINEER OF RECORD**
H&M MECHANICAL GROUP
8517 EARNHART RD, SUITE 230
OAKLAND, CA 94621
TEL (510) 569-2000
- ELECTRICAL ENGINEER OF RECORD**
OMAHONY & MYER
4340 REDWOOD HWY, SUITE 245
SAN RAFAEL, CA 94903
TEL (415) 492-0420

- (D) WORK NOTED AS "O.F.C.I." (OWNER-FURNISH, CONTRACTOR-INSTALL) SHALL MEET ALL APPLICABLE CODES & REGULATORY REQUIREMENTS, AND SHALL BE INSTALLED & FULLY OPERATIONAL PRIOR TO FINAL APPROVAL & OCCUPANCY OF THIS PROJECT. ATTACHMENTS SUBJECT TO DSA APPROVAL.
- (E) CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF WORK "BY OTHERS".
13. **SAFETY**
(A) CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR SAFETY ON OR ABOUT THE CONSTRUCTION SITE IN ACCORDANCE WITH APPLICABLE LAWS AND CODE, AND SHALL OBSERVE SAFETY PROVISIONS OF THE LATEST MANUAL OF ACCIDENT PREVENTION PUBLISHED BY THE ASSOCIATION OF GENERAL CONTRACTORS OF AMERICA.
- (B) COMPLIANCE WITH CFC CHAPTER 33 FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION, AND CBC CHAPTER 33 SAFEGUARDS DURING CONSTRUCTION WILL BE ENFORCED.
14. **EXISTING UTILITIES & PROPERTY**
IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES, WHETHER SHOWN HEREIN OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL THE EXPENSE FOR REPAIR OR REPLACEMENT OF UTILITIES AND/OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF WORK.
15. **ERRORS, INCONSISTENCIES, OR OMISSIONS**
THE CONTRACTOR SHALL REPORT TO THE ARCHITECT ANY ERRORS, INCONSISTENCIES, OR OMISSIONS HE MAY DISCOVER. THE CONTRACTOR IS RESPONSIBLE FOR CORRECTING ANY ERROR AFTER THE START OF CONSTRUCTION WHICH HAS NOT BEEN BROUGHT TO THE ATTENTION OF THE ARCHITECT. THE MEANS OF CORRECTING ANY ERROR SHALL BE FIRST APPROVED BY THE OWNER AND DSA.
16. **FIELD CONFIRMATION OF DISCREPANCIES**
FIELD CONFIRMATION OF DISCREPANCIES SHALL BE RECORDED ON A REPRODUCIBLE DOCUMENT AND IMMEDIATELY TRANSMITTED TO ARCHITECT FOR PROJECT RECORD, COORDINATION, AND NECESSARY RESOLUTION PRIOR TO CONTINUING WORK.
17. **MATERIAL & PRODUCT INSTALLATION**
(A) INSTALL ALL MATERIALS AND PRODUCTS IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND APPLICABLE ICC REPORTS.
(B) USE OF ANY MATERIAL CONTAINING ASBESTOS IS PROHIBITED.
(C) ALL ITEMS NOTED TO BE SALVAGED SHALL BE RETURNED TO THE OWNER.
18. **STRUCTURAL MEMBERS**
NO STRUCTURAL MEMBERS SHALL BE CUT TO ACCEPT PIPES, VENTS, DUCTS, ETC., EXCEPT AS DETAILED OR SPECIFIED HEREIN OR AS APPROVED BY THE ARCHITECT OF RECORD AND DSA IN WRITING.
19. **EXTERIOR OPENINGS**
EXTERIOR OPENINGS SHALL COMPLY WITH ALL SECURITY REQUIREMENTS AS OUTLINED IN ALL LOCAL BUILDING CODES AND/OR ORDINANCES.
20. **SECURING THE SITE**
CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE SITE WHILE THE JOB IS IN PROGRESS AND UNTIL THE JOB IS COMPLETE.
21. **MAINTAINING THE SITE**
CONTRACTOR SHALL MAINTAIN THE SITE IN A CLEAN AND ORDERLY MANNER. ALL DEBRIS SHALL BE REMOVED FROM PREMISES.
22. **A COMPLETELY FINISHED PROJECT**
(A) THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING ALL WORK REQUIRED FOR A COMPLETELY FINISHED PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK FURNISHED BY SUBCONTRACTORS.
(B) UPON COMPLETION OF THE PROJECT, THE GENERAL CONTRACTOR SHALL SUBMIT CERTIFICATES OF INSPECTION OF SATISFACTORY COMPLETION, AND OPERATION AND MAINTENANCE INSTRUCTIONS OF ALL EQUIPMENT TO THE OWNER.
23. **IN ACCORDANCE WITH TITLE 24, C.C.R.**
THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS FOR ALL CONSTRUCTION TO BE IN ACCORDANCE WITH TITLE 24, C.C.R. SHOULD ANY CONDITIONS DEVELOP OR ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION OR DISCOVERY NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH THE SAID TITLE 24, C.C.R. A CONSTRUCTION CHANGE DOCUMENT DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY D.S.A. BEFORE PROCEEDING WITH THE WORK.
24. **SUBMITTALS**
(A) ALL SUBMITTALS & SHOP DRAWINGS SHALL BE REVIEWED, STAMPED APPROVED BY THE GENERAL CONTRACTOR PRIOR TO ISSUING TO THE ARCHITECT. NO DOCUMENTS FROM SUBCONTRACTORS SHALL BE SUBMITTED DIRECTLY TO THE ARCHITECT OR TO THE ARCHITECTS CONSULTANTS.
(B) THE ARCHITECT'S APPROVAL OF SHOP DRAWINGS SHALL NOT RELIEVE THE GENERAL CONTRACTOR FROM RESPONSIBILITY FOR DEVIATIONS FROM DRAWINGS OR SPECIFICATIONS UNLESS HE HAS (IN WRITING) CALLED THE ARCHITECT'S ATTENTION TO SUCH DEVIATIONS AT THE TIME OF SUBMISSION NOR SHALL IT RELIEVE HIM OF RESPONSIBILITY FOR ERRORS OF ANY SORT IN THE SHOP DRAWINGS.
- (C) THE CONTRACTOR SHALL NOTE THAT THERE SHALL BE NO SUBSTITUTIONS FOR ANY MATERIAL UNLESS SPECIFIC MANUFACTURERS ARE APPROVED BY THE ARCHITECT, WHERE "APPROVED EQUAL" IS USED. IT SHALL BE UNDERSTOOD THAT THE SUBSTITUTE SHALL BE BY JUDICIAL OP AND APPROVAL OF THE ARCHITECT AND APPROVAL SHALL BE MADE PRIOR TO MATERIAL PROCUREMENT.
- SUBSTITUTIONS AFFECTING ITEMS REGULATED BY THE DIVISION OF THE STATE ARCHITECT (DSA) REQUIRE DSA APPROVAL AS AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD). DSA APPROVAL SHALL BE OBTAINED PRIOR TO FABRICATION AND/OR INSTALLATION PER SECTION 4-338, PART 1, TITLE 24, CCR.
- (D) THE CONTRACTOR SHALL SUBMIT ALL PERTINENT SHOP DRAWINGS AND COLOR SAMPLES (INCLUDING CASEWORK) FOR THE ARCHITECT'S REVIEW. ALLOWING ADEQUATE TIME FOR REVIEW AND CORRECTIVE ACTION, SHOULD IT BE REQUIRED. BY SUBMITTING SHOP DRAWINGS, THE CONTRACTOR THEREBY REPRESENTS THAT HE HAS VERIFIED ALL FIELD MEASUREMENTS, METHODS OF ACCESS TO THE POINT OF INSTALLATION AND SIMILAR FIELD CRITERIA FOR CABINETRY/MILLWORK AND ALL PREFABRICATED ASSEMBLIES OTHER THEN BUILDING STANDARD WORK.
25. **HAZARDOUS MATERIALS OR TOXIC SUBSTANCES**
THE ARCHITECT HAS NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL OR DISPOSAL OF, OR EXPOSURE OF PERSONS TO, HAZARDOUS MATERIALS OR TOXIC SUBSTANCES IN ANY FORM AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB), LEAD PAINT OR OTHER TOXIC SUBSTANCES. THE FACT THAT THESE DOCUMENTS DO NOT INDICATE THE PRESENCE OF OR REMOVAL OR CONTAINMENT OF THE FOREGOING IS NOT INTENDED TO INDICATE THAT THESE MATERIALS OR SUBSTANCES, AMONG OTHERS, ARE NOT PRESENT AND ARE NOT REQUIRED TO BE REMOVED OR CONTAINED IN COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.
26. **AUTOMATED EXTERNAL DEFIBRILLATORS (AED)**
TO BE PROVIDED BY DISTRICT PER CODE REQUIREMENTS. OFCI
27. **CALIFORNIA ENERGY CODE ACCEPTANCE TESTING REQUIREMENTS**
(A) THE CALIFORNIA ENERGY CODE SECTION 19-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.
(B) LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHT CONTROLS ACCEPTANCE TECHNICIAN (ATT).

APPLICABLE CODES

- 2022 CALIFORNIA BUILDING CODE (CBC) PART 2, TITLE 24, (CCR)
2022 CALIFORNIA GREEN BUILDING CODE (CBC) PART 11, TITLE 24, (CCR)
2022 CALIFORNIA FIRE CODE (CFC) PART 9, 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 ELECTRICAL CODE (CEC) PART 3, TITLE 24 (CCR)
2022 CALIFORNIA ENERGY CODE PART 6, TITLE 24, (CCR)
2022 CALIFORNIA ADMINISTRATIVE CODE (CAC) PART 1, TITLE 24 (CCR)
2010 ADA STANDARDS ACCESSIBLE DESIGN
COR TITL 19 PUBLIC SAFETY DIVISION 1 STATE FIRE MARSHAL
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC) PART 10, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
- INCLUDING ANY CODES REFERRED TO BY THE ABOVE,
- NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CODES: LIFE SAFETY CODE 101 AND
OTHER NFPA PAMPHLETS. REGULATIONS THAT RELATE TO THE LICENSING OF HEALTH FACILITIES, SUCH AS TITLE 22, DIVISION 5, CHAPTER 1, 2, 3, 4, AND 5
- THE ABOVE CODES AND REGULATIONS REFER TO THE LATEST EDITION OR REVISION IN FORCE ON THE DATE OF THE CONTRACT, UNLESS OTHERWISE STATED. NOTHING ON THE DRAWINGS IS TO BE CONTRUED AS REQUIRING OR PERMITTING WORK THAT IS CONTRARY TO THE LISTED CODES AND REGULATIONS, OR OTHER LOCAL, STATE OR FEDERAL CODES OR REGULATIONS WHICH MAY BE APPLICABLE. FOR A LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS, REFER TO CBC CHAPTER 35 AND CFC CHAPTER 80.

- (C) MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021
- (D) ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT
- (E) A LISTING OF CERTIFIED ATT CAN BE FOUND AT: [HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE](https://www.energy.ca.gov/programs-and-topics/programs/acceptance-test-technician-certification-provider-program/acceptance).
- (F) 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
- (G) PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.
28. **DSA REQUIRED DISCLOSURE STATEMENT**
DSA APPROVAL OF THESE PLANS SHALL NOT BE CONTRUED AS THE CERTIFICATION OF COMPLIANCE FOR THE FOLLOWING BUILDING(S) AS REQUIRED BY THE FIELD ACT, EDUCATION CODE SECTION 17280-17316 AND SECTIONS 81130-81147: BUILDINGS C AND BUILDING L
29. **CODE COMPLIANCE**
ALL WORK SHALL CONFORM TO 2022 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
- WORK SHALL COMPLY WITH THE PROVISIONS OF CHAPTER 33 OF THE CBC & CFC, "FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION."

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. 01-121295 File No. 21-H1)

- ☒ The drawings or sheets listed on the cover or index 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:
- 1) design intent and appears to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me, and
 - 2) coordination of 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))

I certify that: <input checked="" type="checkbox"/> All drawings or sheets listed on the cover or index sheet <input type="checkbox"/> This drawing or page			
<input checked="" type="checkbox"/> is/are in general conformance and <input checked="" type="checkbox"/> have been coordinated		<input type="checkbox"/> is/are in general conformance and <input type="checkbox"/> have been coordinated	
Signature	Date	Signature	Date
Architect or Engineer designated to be in general responsible charge		Architect or Engineer delegated responsibility for this portion of the work.	
Print Name		Print Name	
License Number	Expiration Date	License Number	Expiration Date

NONE.

DEFERRED SUBMITTALS

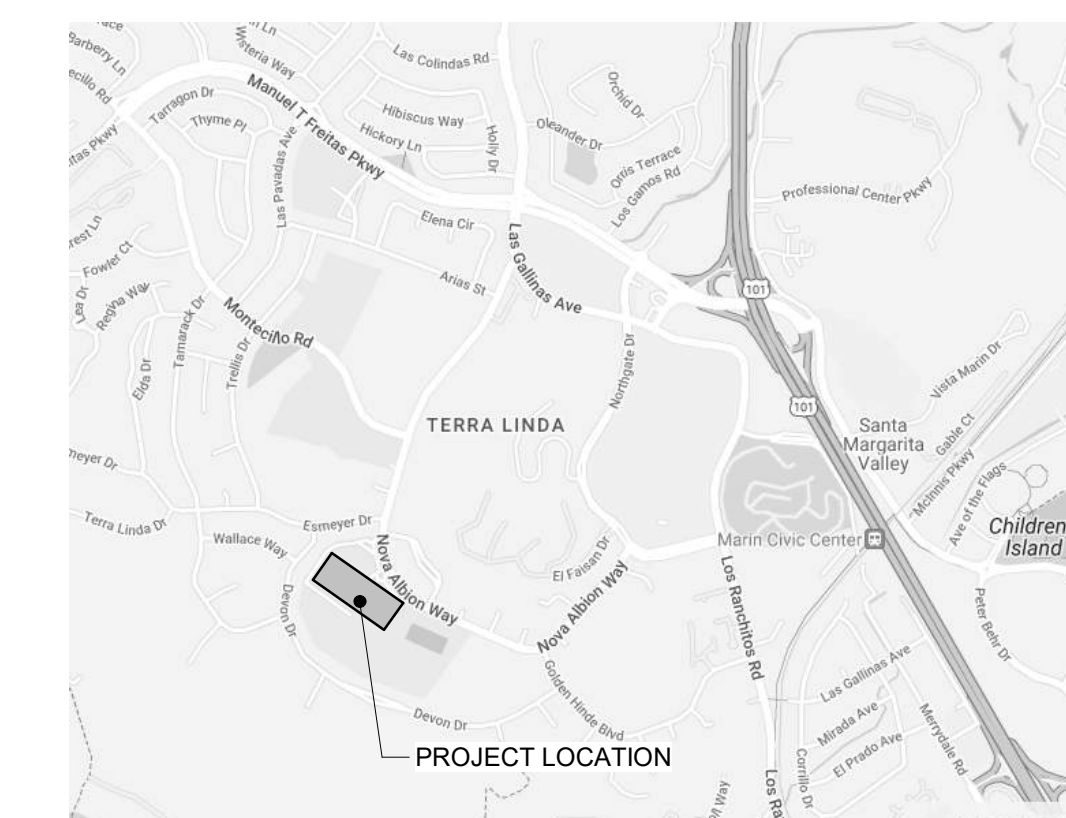
PROJECT DESCRIPTION

- THIS PROJECT CONSISTS OF INTERIOR, NON-STRUCTURAL DEMOLITION AND REMODEL OF WELLNESS CENTER AND RESTROOMS
- ALL BUILDINGS ARE EXISTING AND NO SITE WORK IS INCLUDED IN PROJECT SCOPE.
- ADDRESS: 320 NOVA ALBION WAY, SAN RAFAEL, CA 94903
APN: 175-060-31
- EXISTING BUILDINGS 'C' AND 'L'
- EXISTING NUMBER OF STORIES (NO CHANGE): 2
- EXISTING BUILDING HEIGHT (NO CHANGE): 24'-2"
- EXISTING BUILDING SQUARE FOOTAGE:
- | | |
|------------------------------------|-----------|
| EXISTING BUILDING 'C' (NO CHANGE): | 16,386 SF |
| EXISTING BUILDING 'L' (NO CHANGE): | 15,111 SF |
- EXISTING BUILDING OCCUPANCY TYPE: B & E
- PROJECT AREA:
- | | |
|--------------------|--------|
| LEVEL 1 RESTROOMS: | 456 SF |
| LEVEL 2 RESTROOMS: | 482 SF |
| TOTAL: | 938 SF |
- LEVEL 1 WELLNESS CENTER: 1,594 SF
- EXISTING CONSTRUCTION TYPE: V-B
- SPRINKLERED: (E) BUILDING 'C': NO
(E) BUILDING 'L': YES
- FOR REMAINDER OF CODE ANALYSIS FOR MODERNIZATION WORK IN EXISTING BUILDINGS, SEE SHEET G-012.
- DSA CERTIFICATION OF THE CURRENT PROJECT 01-121295 IS CONTINGENT UPON THE CERTIFICATION OF 01-120337

VICINITY MAP



AREA MAP



San Rafael City Schools



310 Nova Albion Way, San Rafael, CA 94903

SRCS Wellness & Restroom Modernization

320 Nova Albion Way, San Rafael, CA 94903

Date Issued For
03/08/2024 DSA Resubmittal

HED

417 Montgomery Street
Suite 400
San Francisco, California
94104 USA
(415) 981-2345
WWW.HED.DESIGN

2023-SR001-002

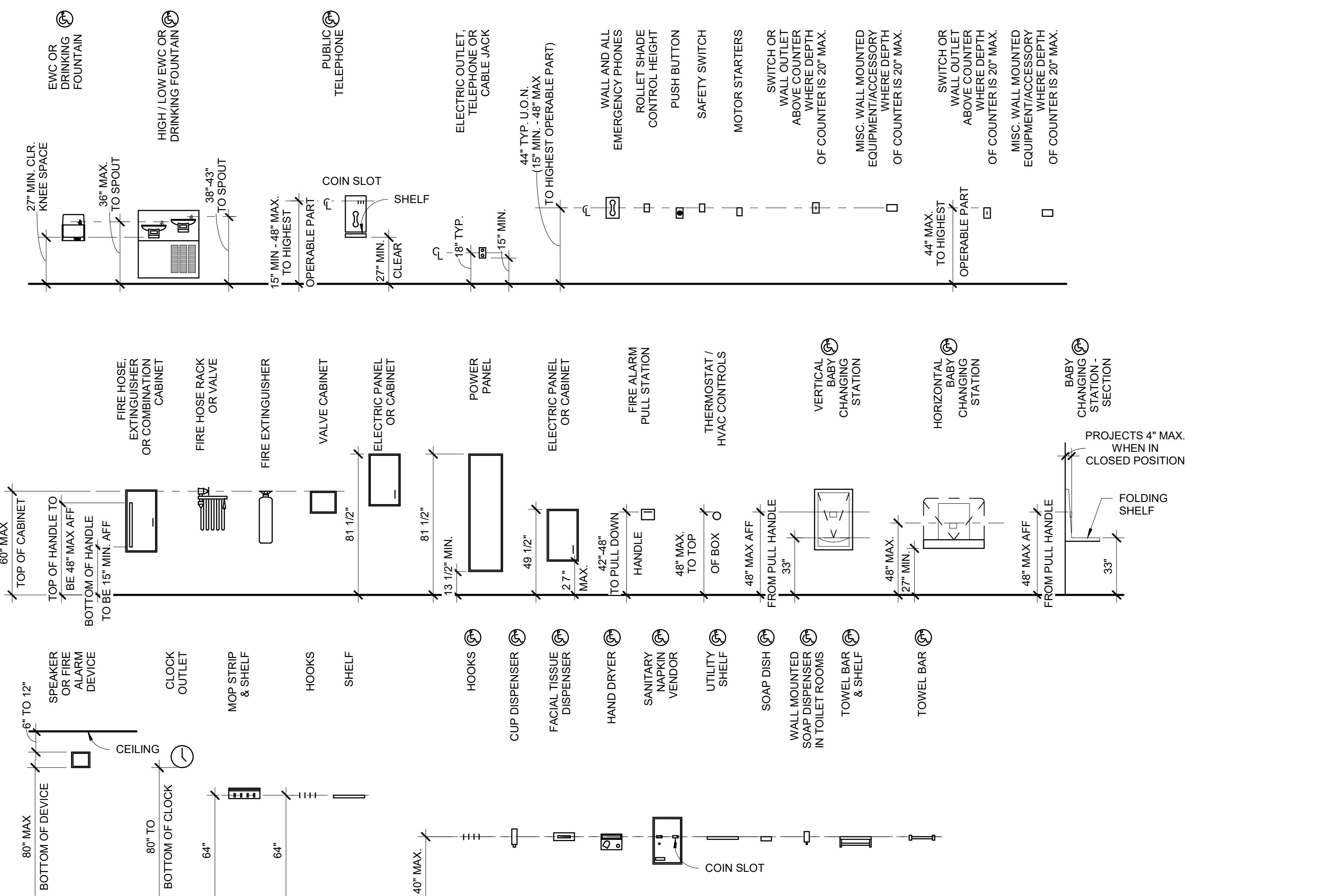
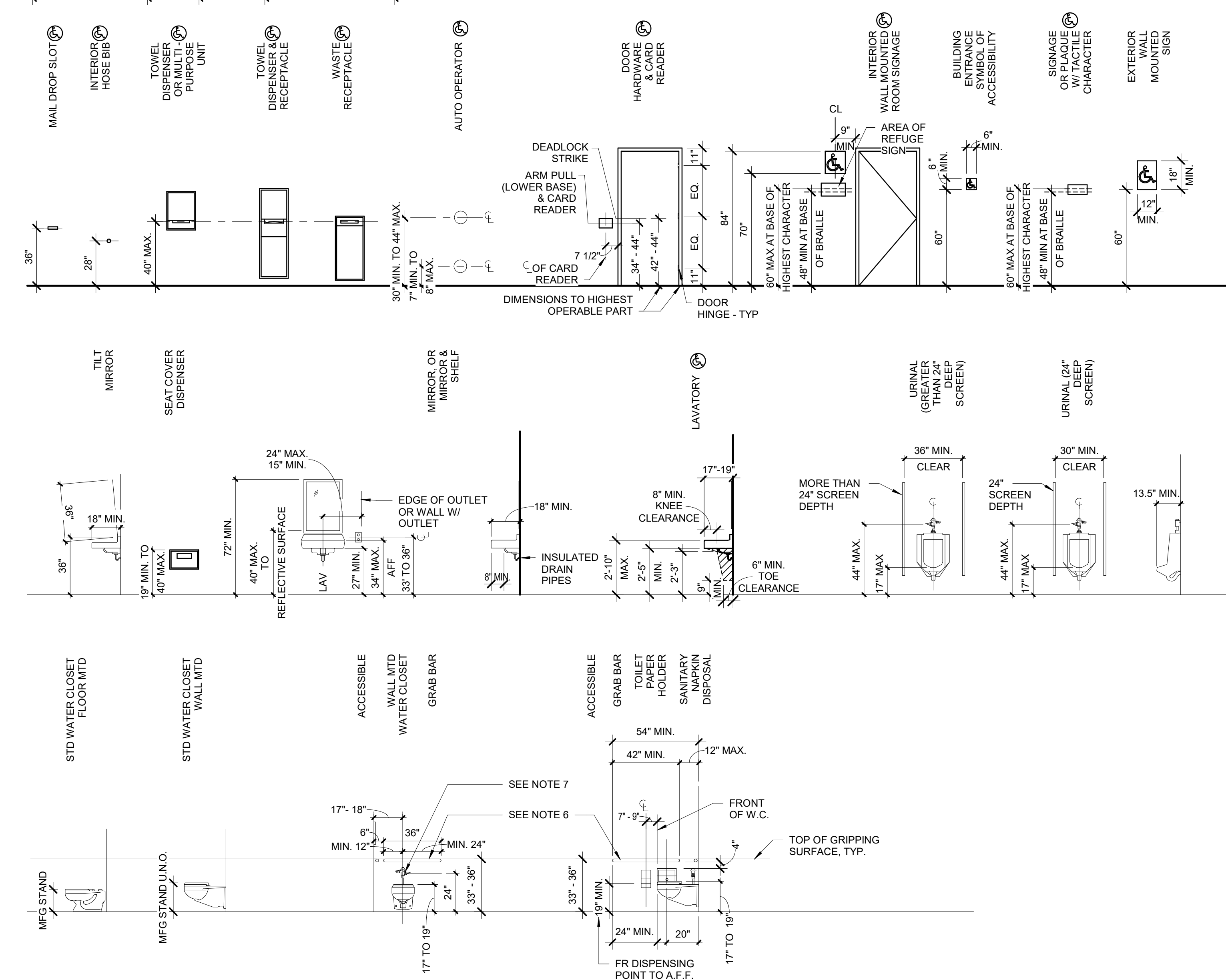
Project Information

G-001

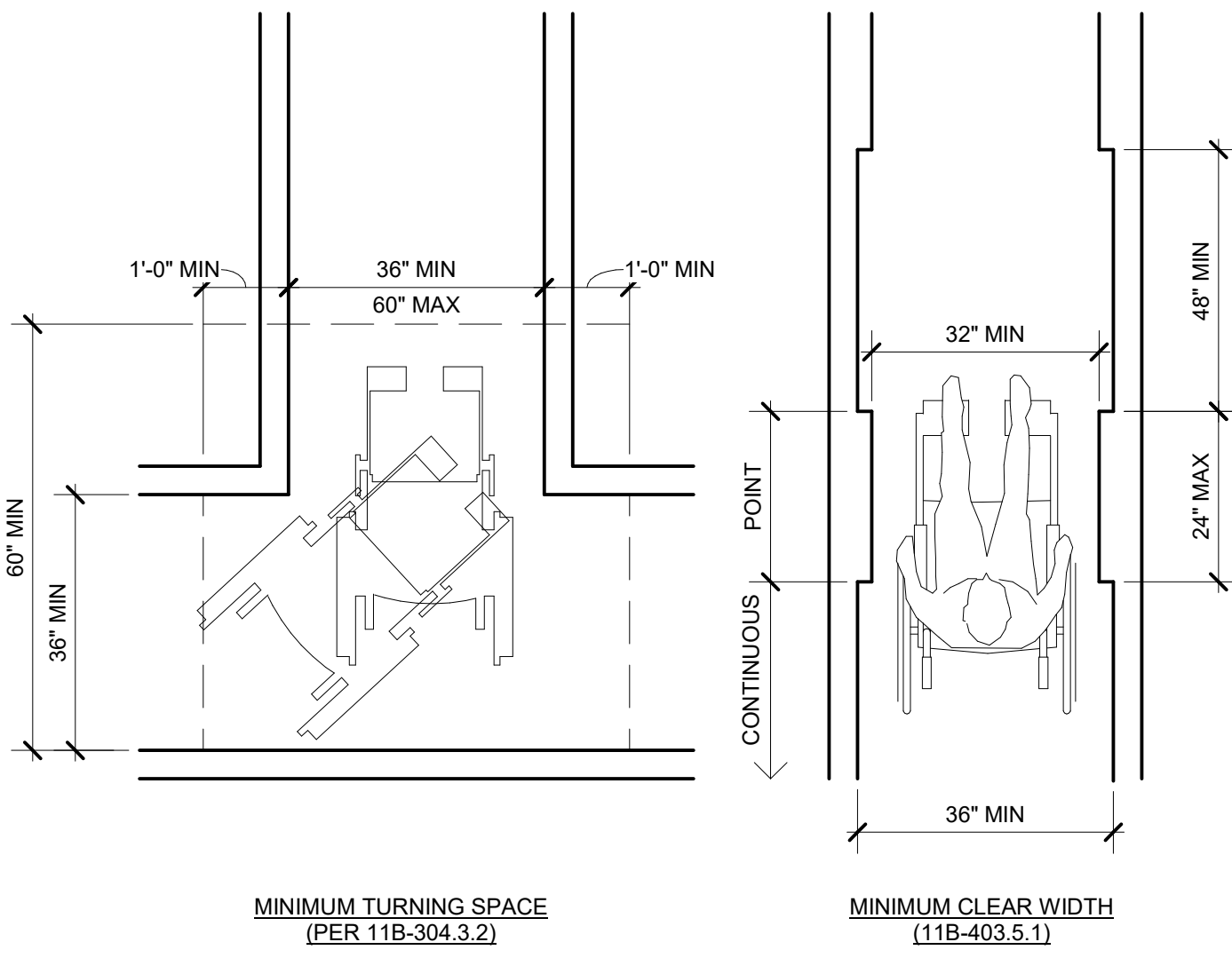
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MOUNTING DIMENSIONS STANDARDS

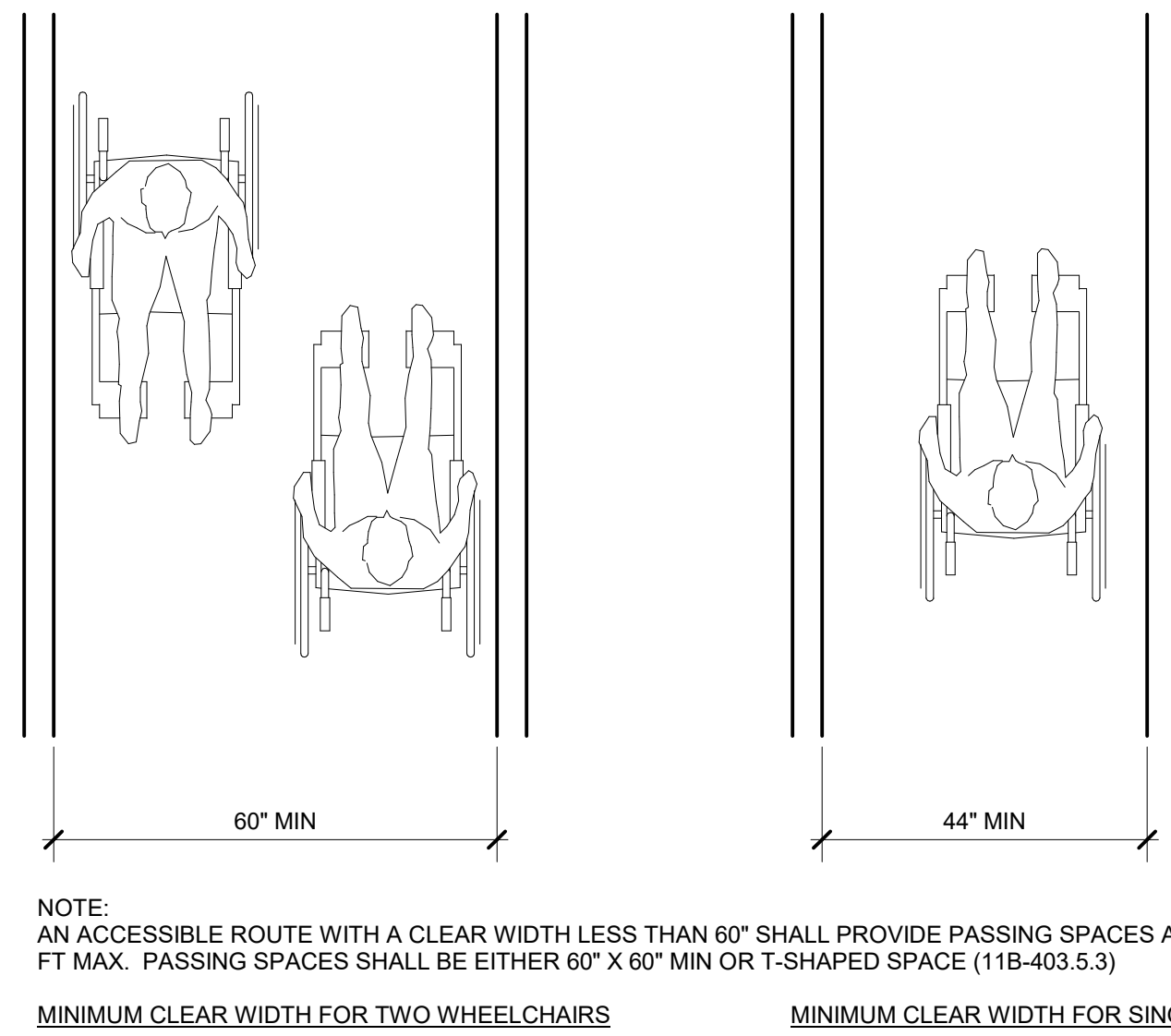
1/4" = 1'-0"



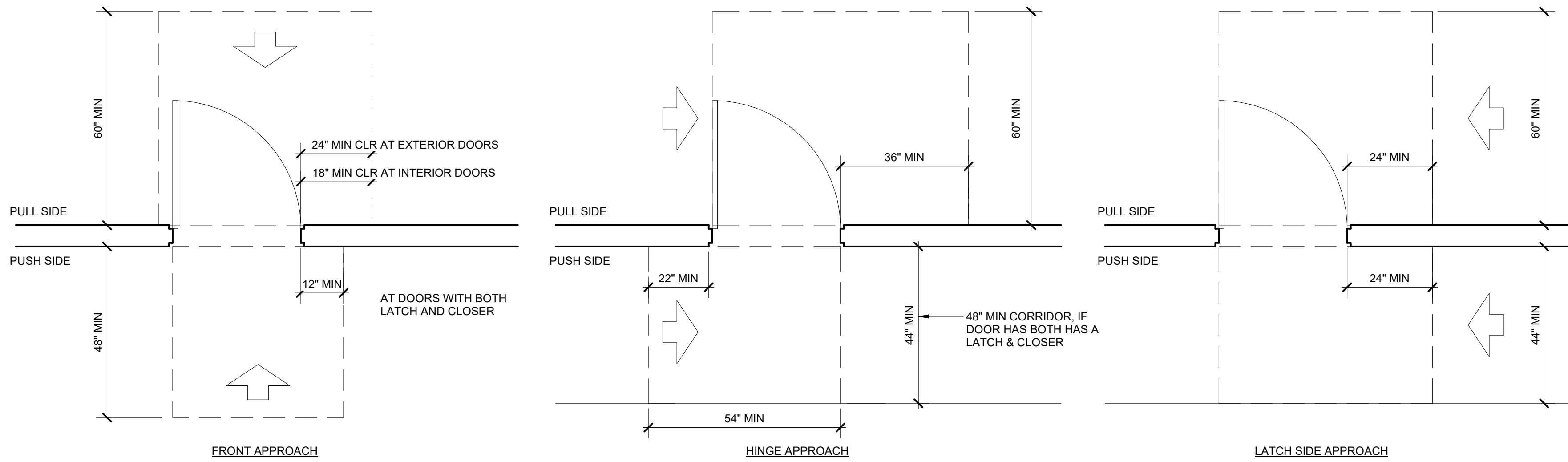
- NOTES:
1. MOUNTING DIMENSIONS SHOW ACCESSIBLE AND NON-ACCESSIBLE CONDITIONS. WHEN ONLY ONE OPTION IS SHOWN - ALL ITEMS IN PROJECT SHALL BE ACCESSIBLE. WHEN ITEMS CAN BE ACCESSIBLE OR NON ACCESSIBLE DRAWINGS SHALL INDICATE LOCATION OF ACCESSIBLE ITEMS BY THIS SYMBOL:
 2. COORDINATE ITEMS SHOWN ON THIS DRAWING WITH PLANS AND SPECIFICATIONS FOR ACTUAL ITEMS USED ON THIS PROJECT.
 3. NOT EVERY ITEM SHOWN ON THIS DRAWING IS NECESSARILY USED ON THIS PROJECT.
 4. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS (22.2N) MAXIMUM (INCLUDING SANITARY DISPENSERS).
 5. OBJECTS WITH LEADING EDGES MORE THAN 27 INCHES (688 mm) AND NOT MORE THAN 80 INCHES (2032 mm) ABOVE THE FINISHED FLOOR OR GROUND SHALL PROTRUDE 4 INCHES (102 mm) MAXIMUM HORIZONTALLY INTO THE CIRCULATION PATH (INCLUDING ALL SHELVING UNITS).
 6. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS BELOW AND AT THE ENDS SHALL BE 1'-1 1/2" MIN. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS ABOVE SHALL BE 12" MINIMUM.
 7. HAND OPERATED FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET.
 8. FIRE EXTINGUISHER CABINET SHOULD BE OPERABLE WITH ONE HAND AND SHOULD NOT REQUIRE GRASPING OR PINCHING TO OPERATE.



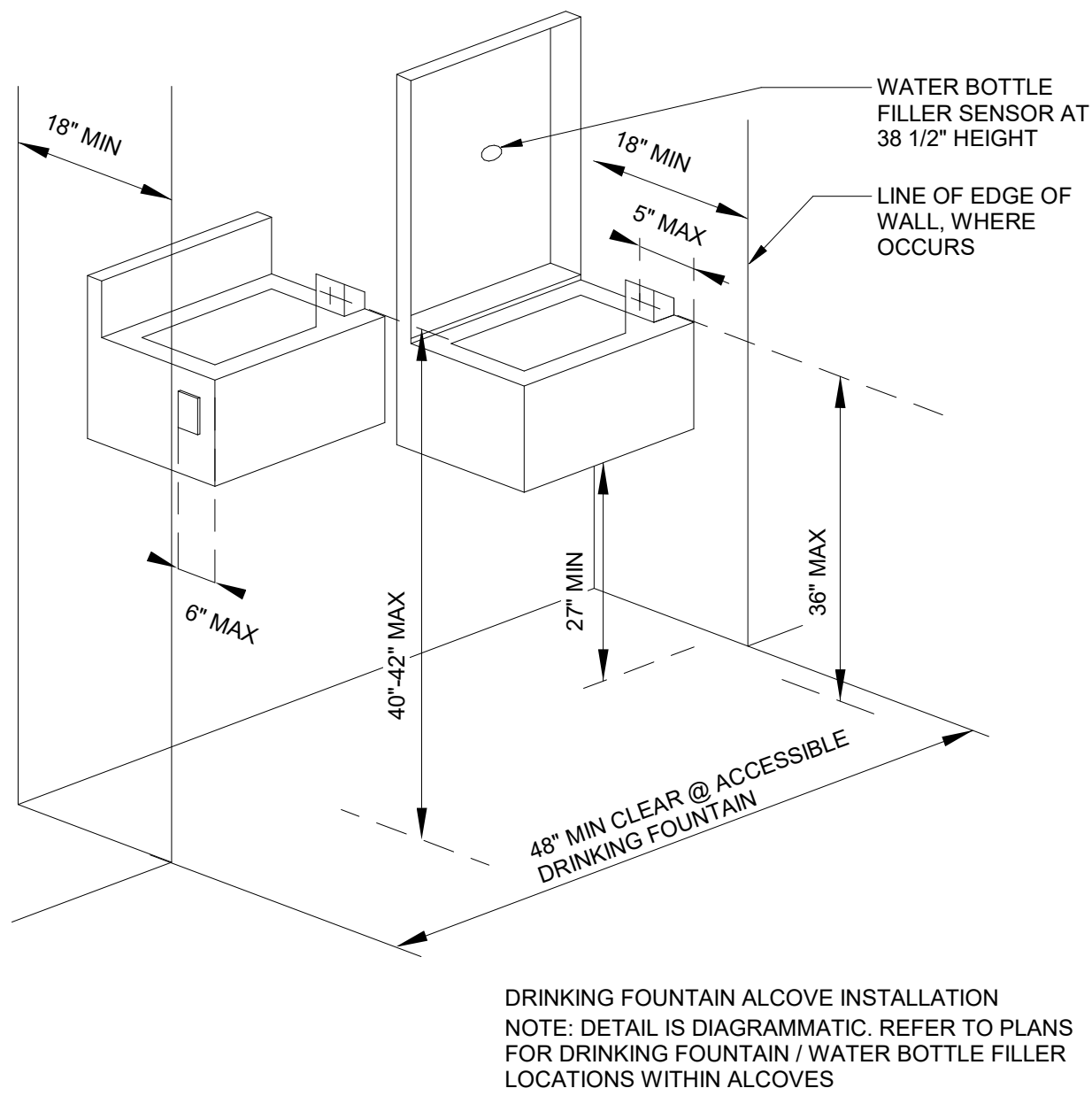
5 MINIMUM CLEAR WIDTH/ TURNING SPACE
1/2" = 1'-0"



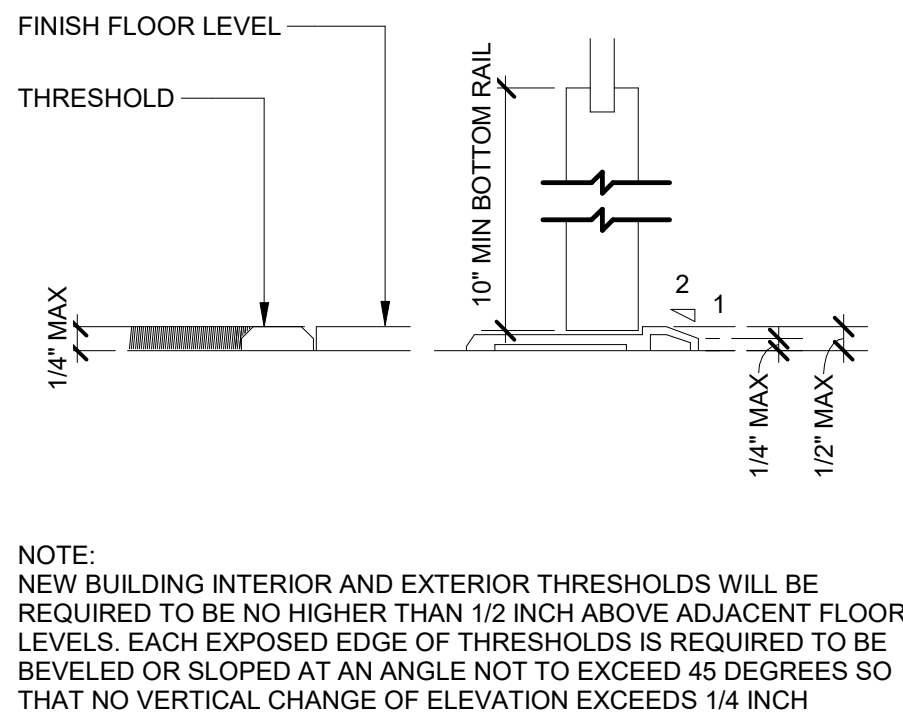
4 MINIMUM CORRIDOR WIDTH
1/2" = 1'-0"



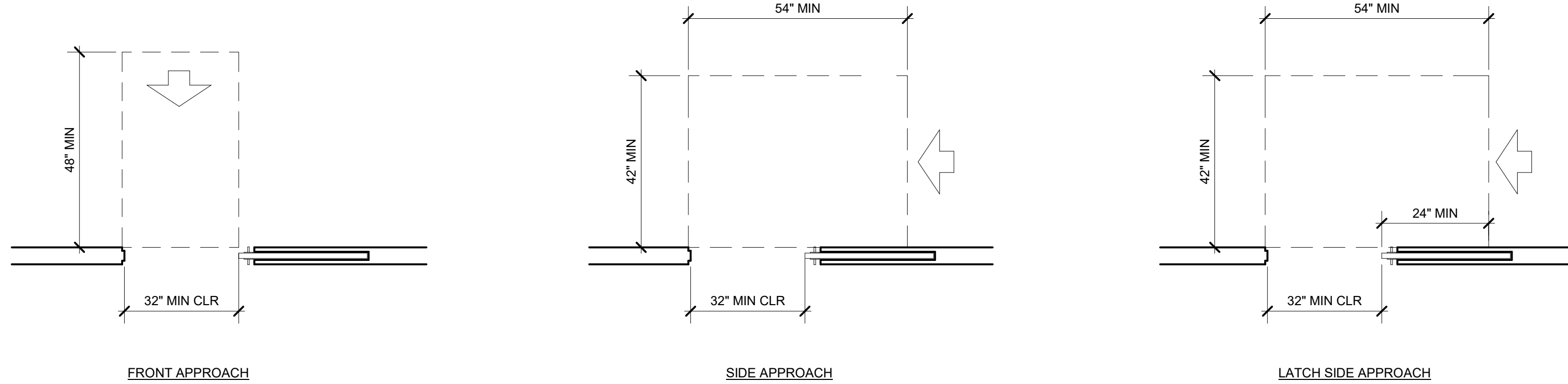
3 SWING DOOR APPROACH
1/2" = 1'-0"



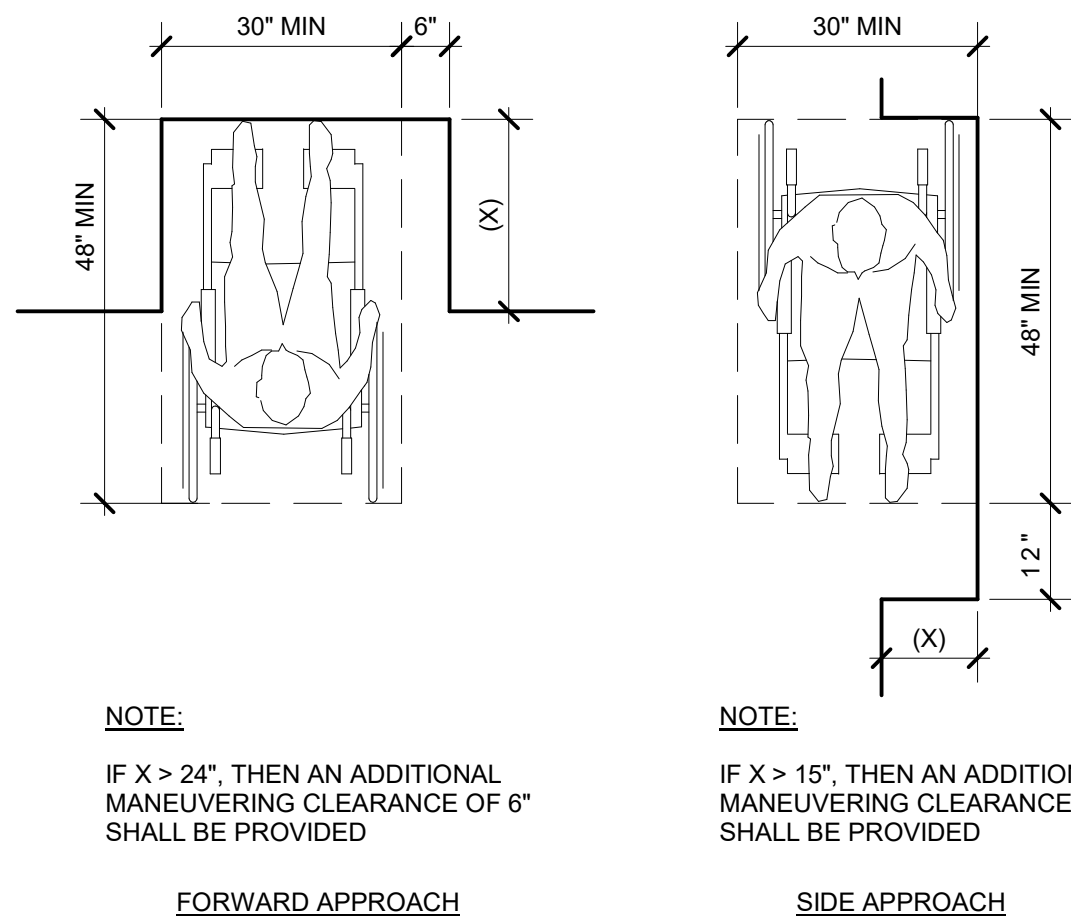
9 DRINKING FOUNTAIN
1 1/2" = 1'-0"



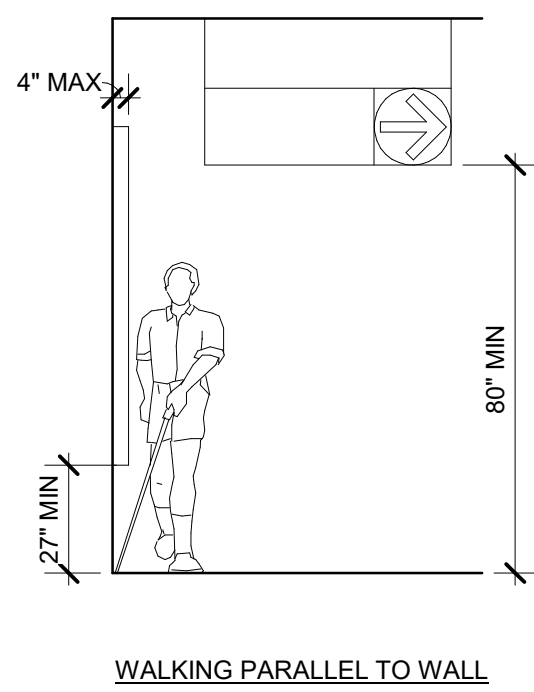
7 DOOR THRESHOLDS
3" = 1'-0"



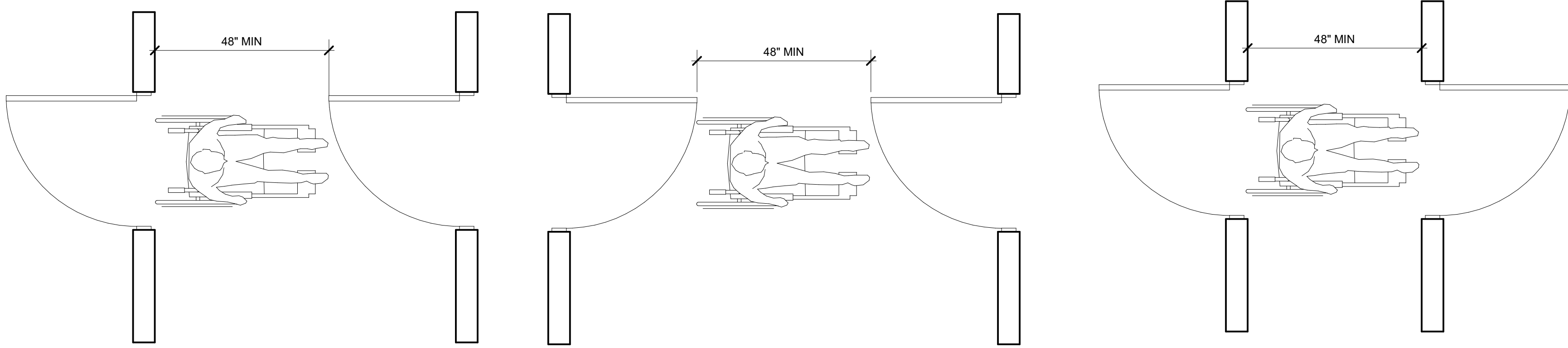
2 SLIDING DOOR APPROACH
1/2" = 1'-0"



8 MANEUVERING CLEARANCE AT ALCOVES
1/2" = 1'-0"



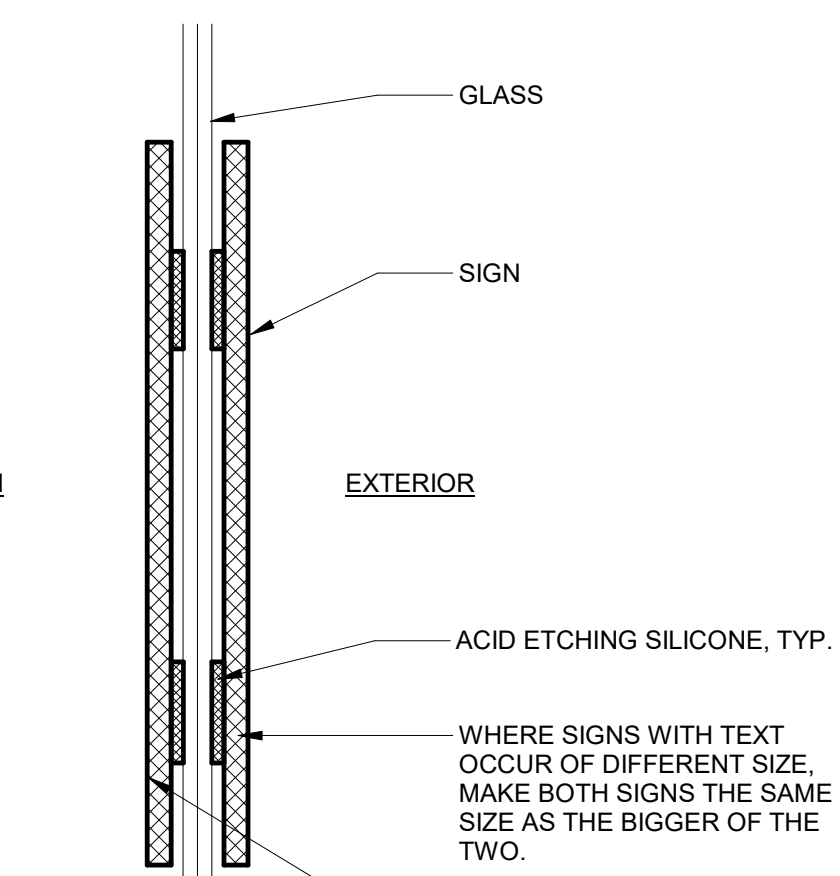
6 PROTRUDING OBJECTS
1/4" = 1'-0"



1 DOORS AND GATES IN SERIES
1/2" = 1'-0"

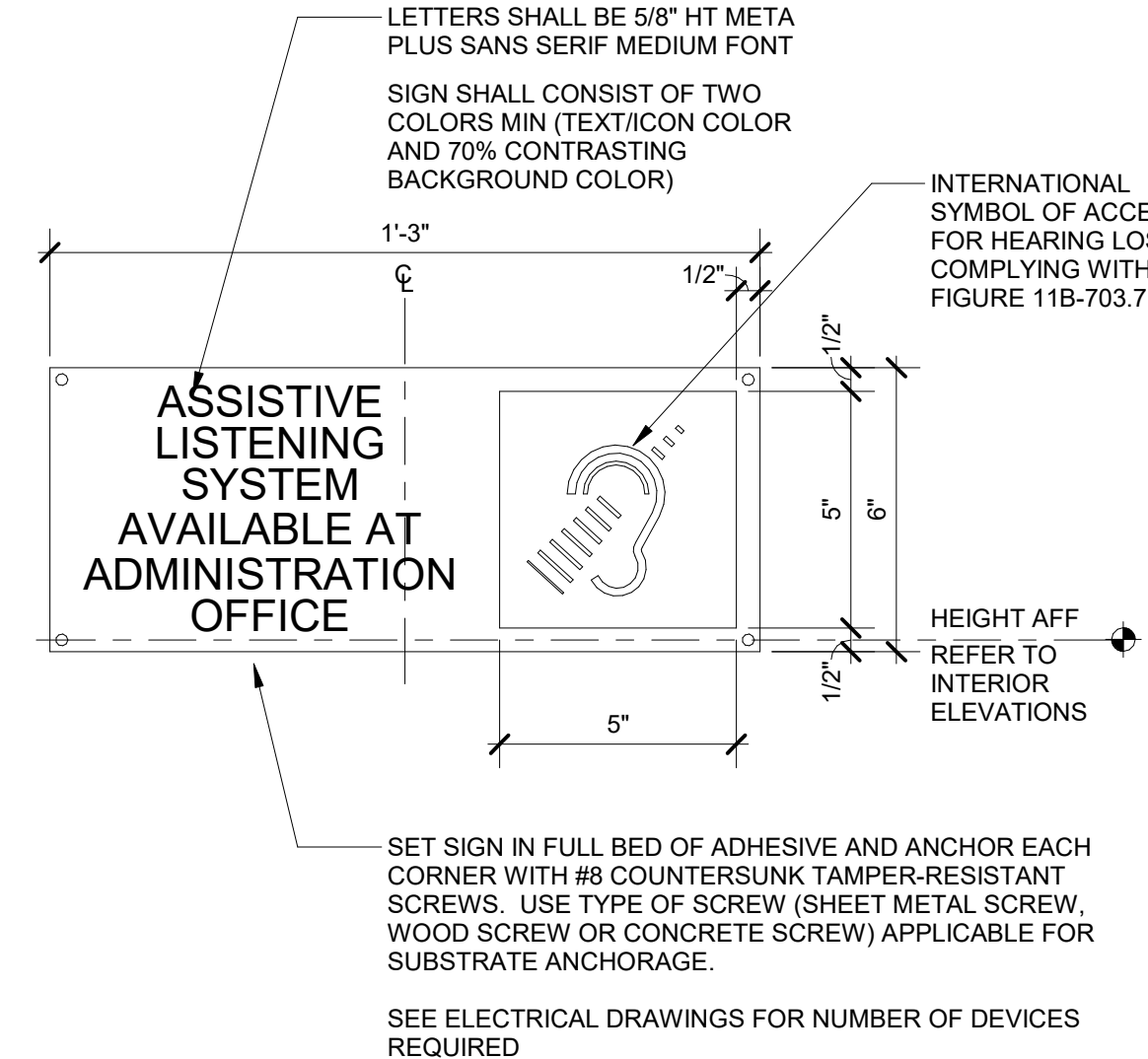
ROOM

EXTERIOR



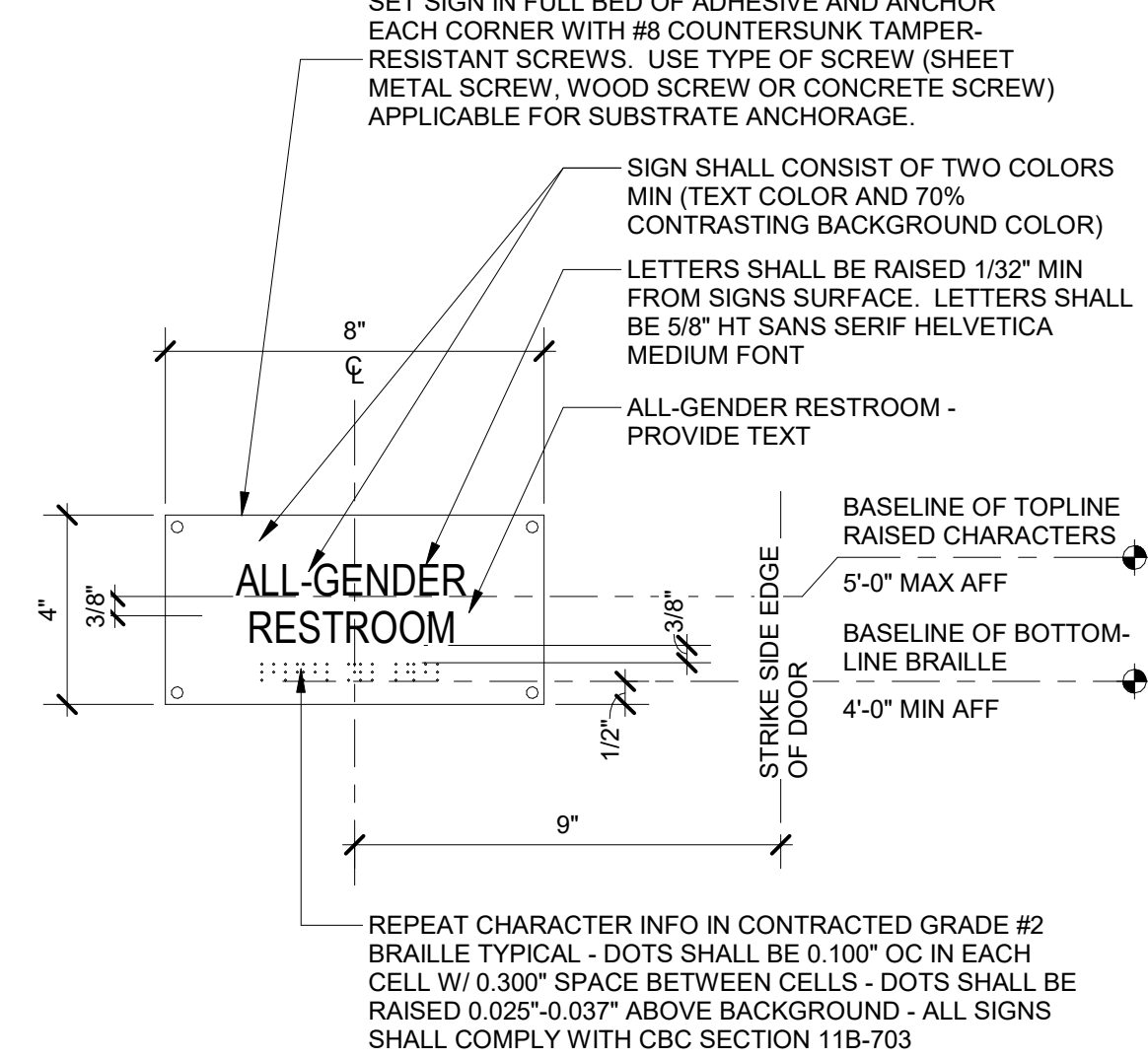
8 SIGNAGE AT GLASS

6" = 1'-0"



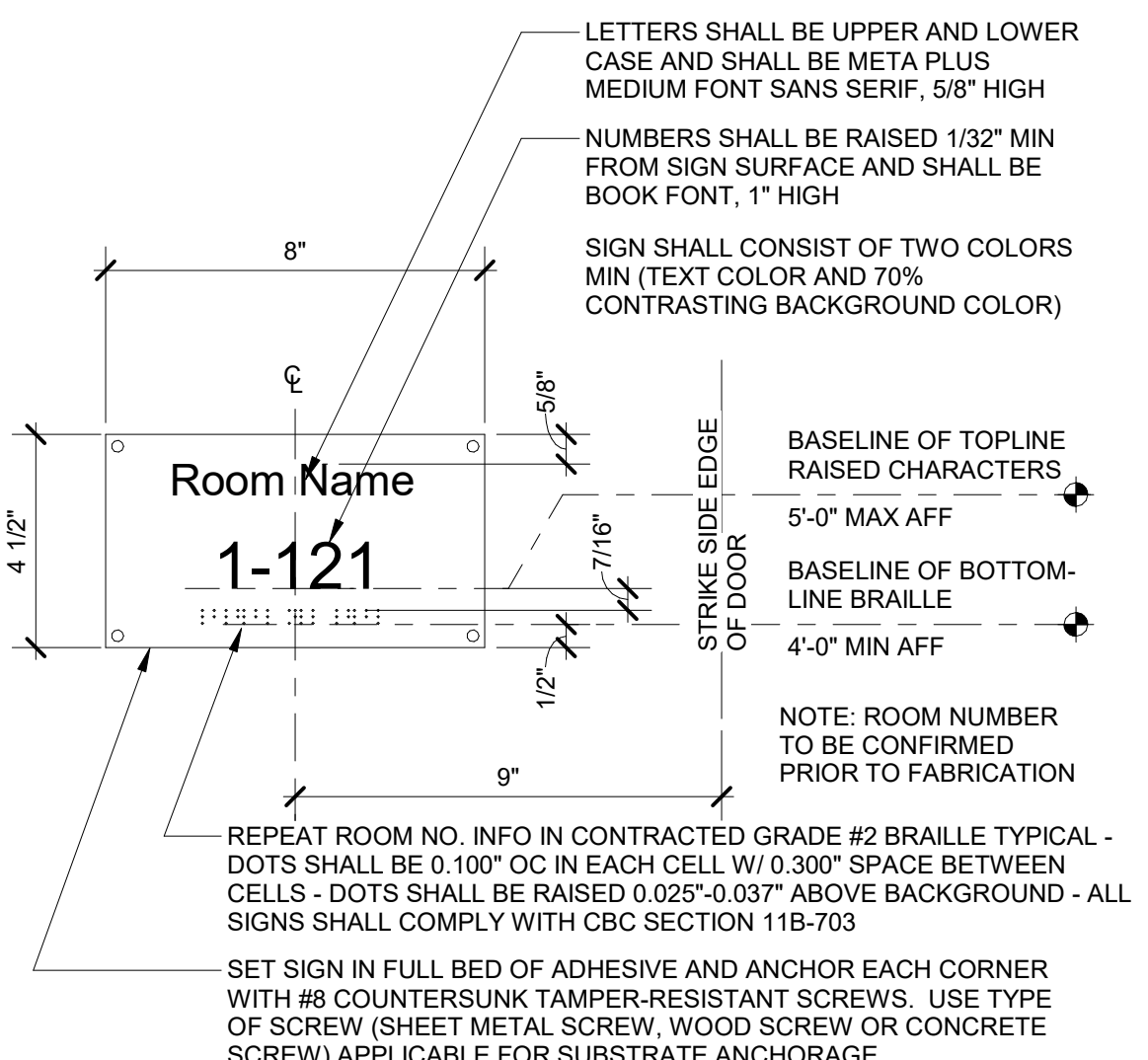
7 ASSISTIVE LISTENING DEVICE

3" = 1'-0"



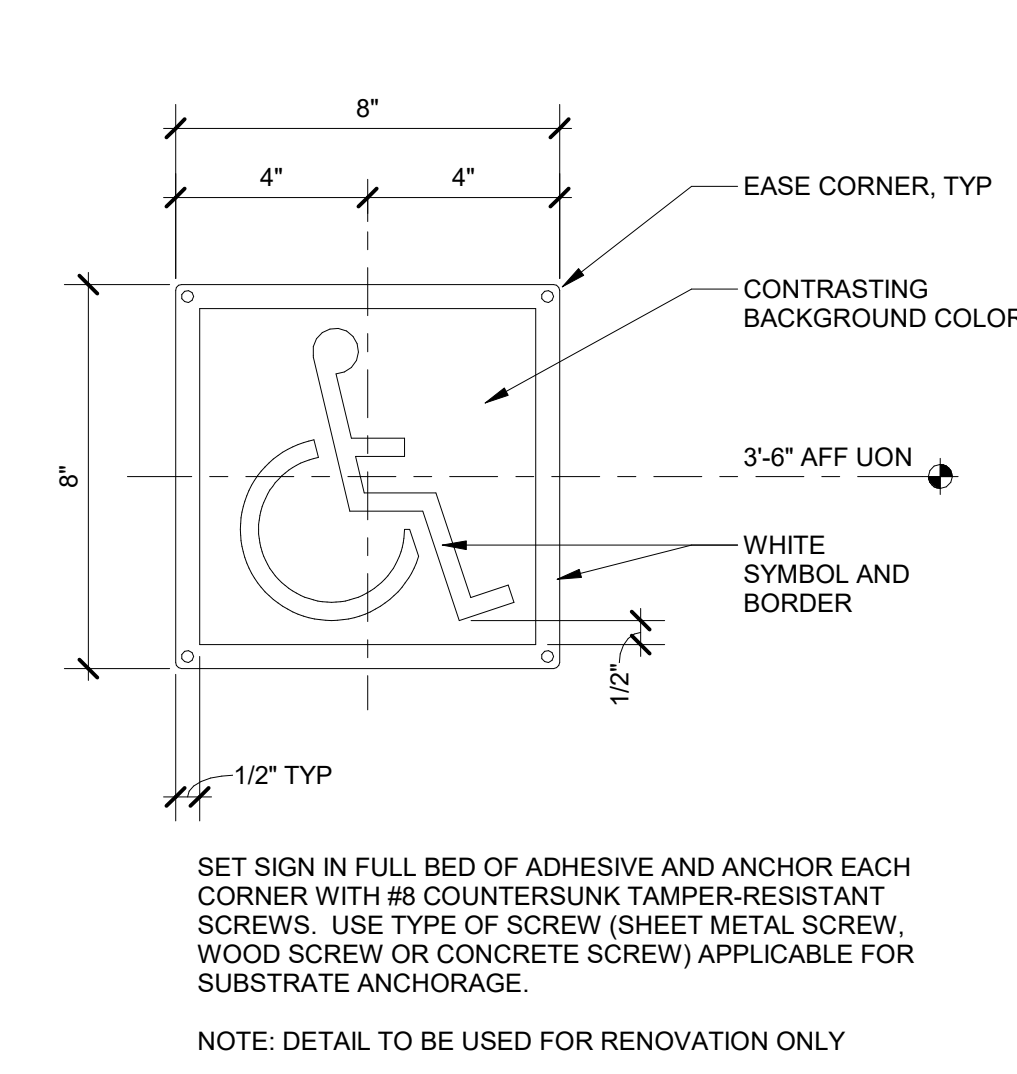
6 ACCESSIBLE ALL GENDER WALL SIGN

3" = 1'-0"



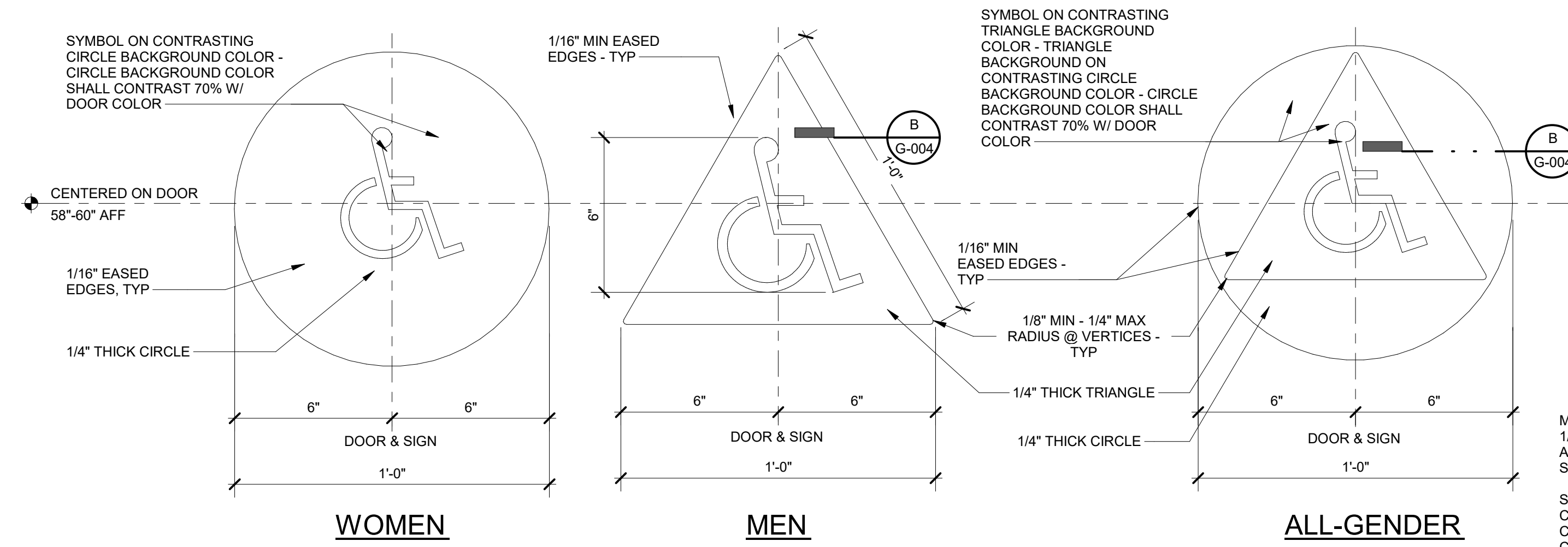
5 ACCESSIBLE ROOM NAME SIGN

3" = 1'-0"



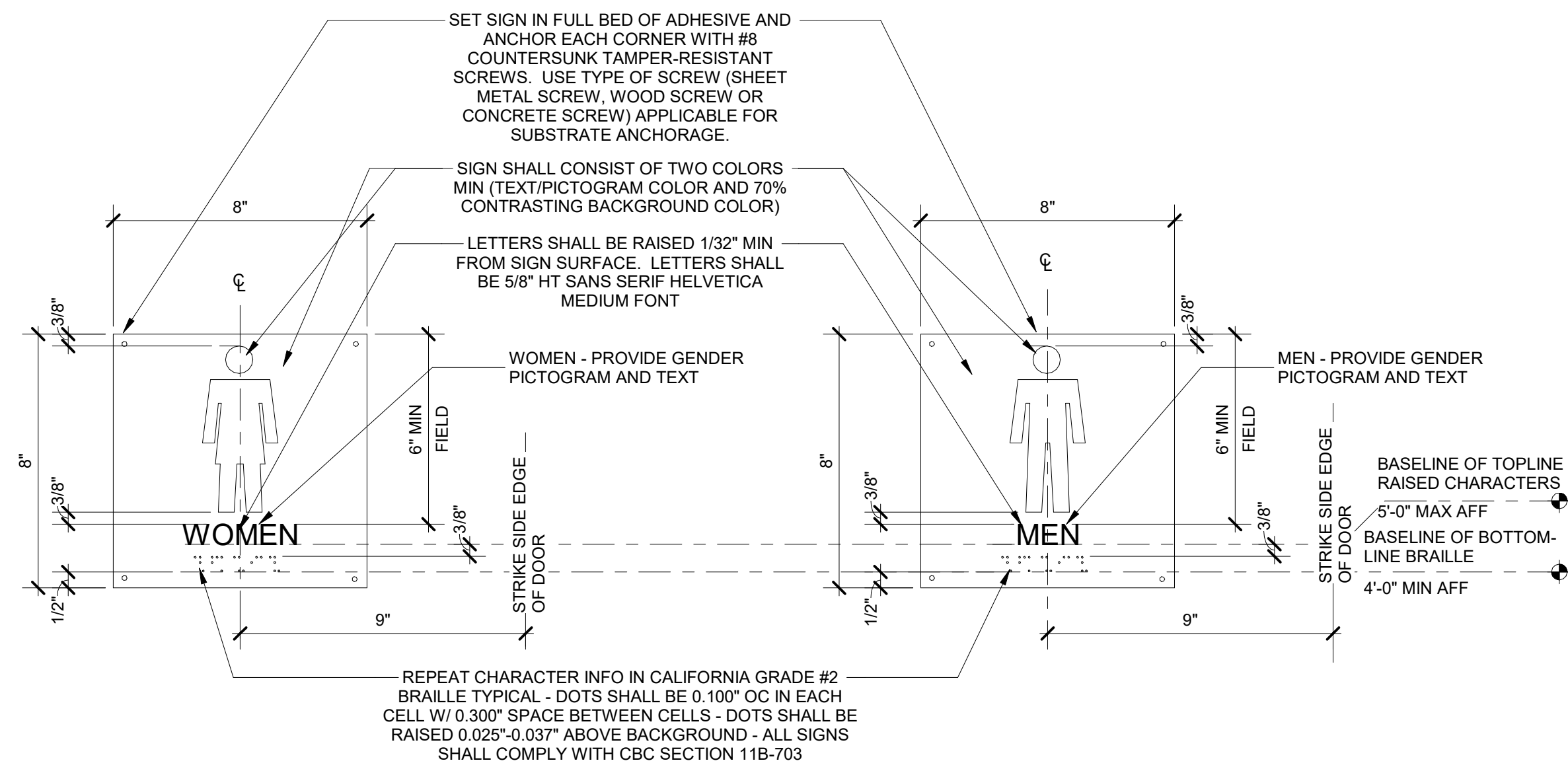
1 INTERNATIONAL SYMBOL OF ACCESSIBILITY BUILDING SIGN

3" = 1'-0"



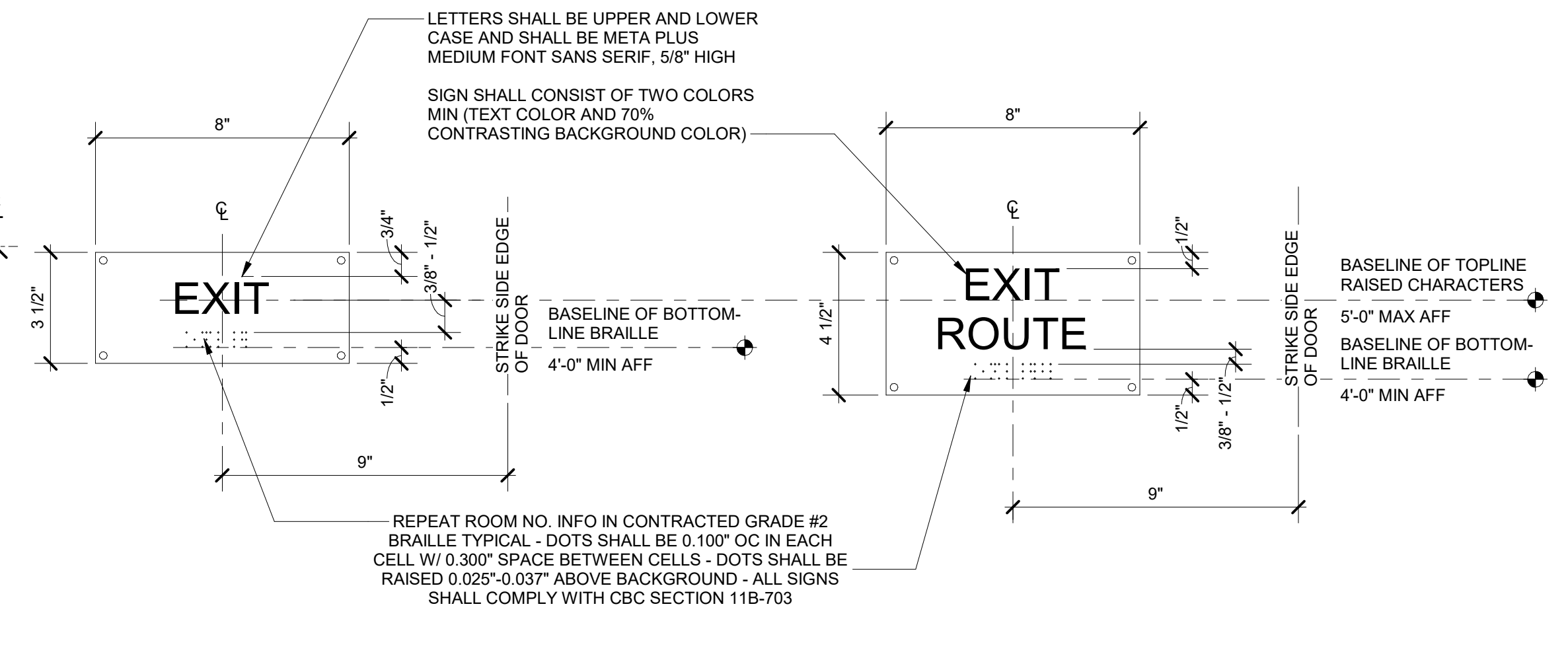
4 ACCESSIBLE WOMEN, MEN & ALL GENDER DOOR SIGN

3" = 1'-0"



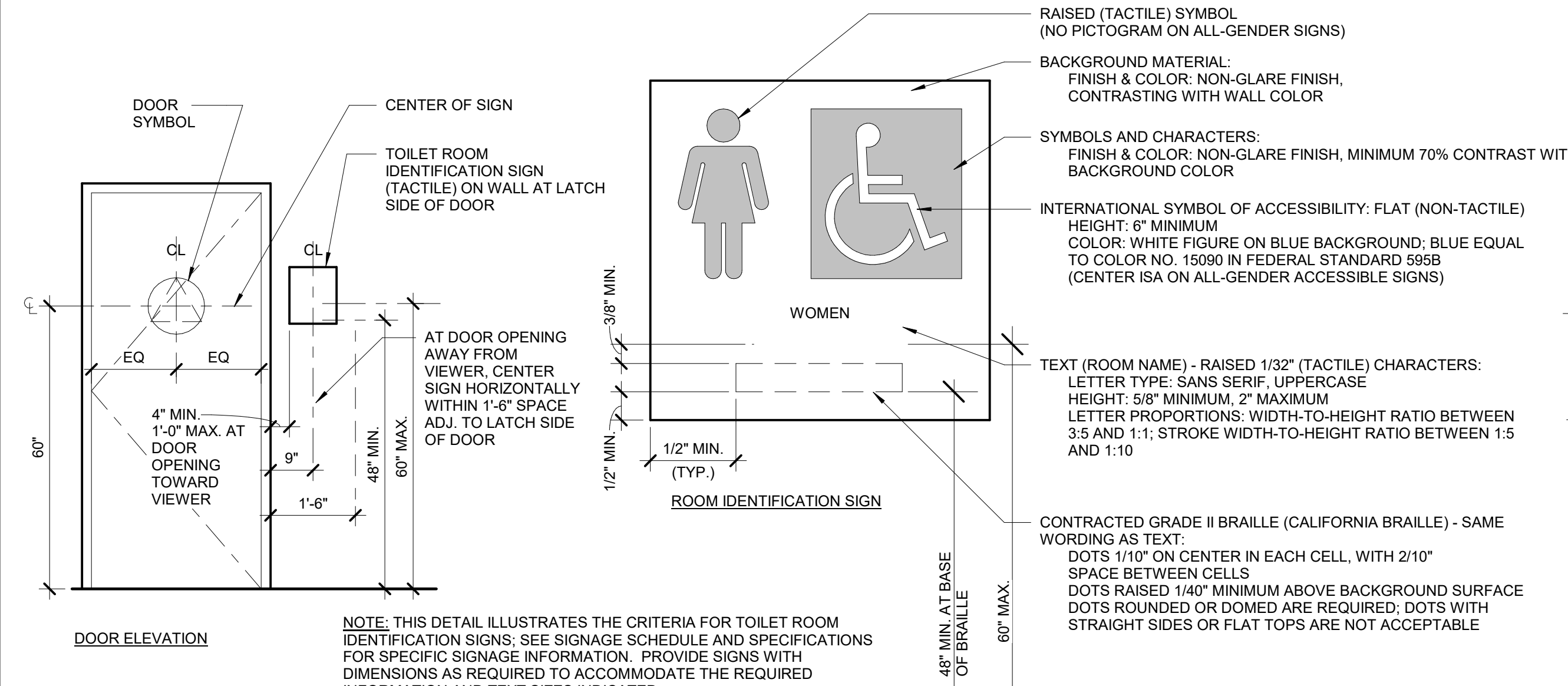
3 ACCESSIBLE WOMEN & MEN WALL SIGN

3" = 1'-0"



2 ACCESSIBLE EXIT & EXIT ROUTE SIGN

3" = 1'-0"



9 TOILET ROOM IDENTIFICATION SIGN (TACTILE) & DOOR SYMBOLS

1/2" = 1'-0"

SIGNAGE SCHEDULE NOTES

- SIGNAGE SCHEDULE ADDRESSES SIGNAGE ASSOCIATED WITH DOORS ONLY. SEE FLOOR PLANS, EXTERIOR ELEVATIONS AND INTERIOR ELEVATIONS FOR ADDITIONAL SIGNAGE NOT CALLED OUT IN THE SIGNAGE SCHEDULE
- FINAL TACTILE SIGNAGE TEXT TO BE DETERMINED AT TIME OF SUBMITTAL - TYPICAL
- INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGNAGE FOR BUILDINGS, SEE FLOOR PLANS AND SIGNAGE SCHEDULE
- TOILET ROOM ACCESSIBLE DOOR AND ROOM IDENTIFICATION SYMBOLS ARE TO BE PROVIDED PER CCR TITLE 24 PART 2 VOL 1 AT ACCESSIBLE TOILET FACILITIES
- CODE GOVERNED SIGNS TO BE FIELD-INSPECTED PER CBC SECTION 11B-703.1.1.2

DETAIL B

MATERIAL & COLOR:
1/4" THICK MATERIAL PER SPECIFICATIONS; AT ALL GENDER SYMBOL, 1/4" THICK TRIANGLE SUPERIMPOSED ON 1/4" THICK CIRCLE

SYMBOL COLOR SHALL CONTRAST WITH DOOR COLOR. AT ALL GENDER SYMBOL TRIANGLE COLOR SHALL CONTRAST WITH CIRCLE COLOR; CIRCLE COLOR SHALL CONTRAST WITH DOOR COLOR. INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) WHERE PROVIDED, SHALL CONTRAST WITH SYMBOL COLOR. SEE SPECIFICATIONS FOR COLORS

San Rafael City Schools



310 Nova Albion Way, San Rafael, CA 94903

SRCS Wellness & Restroom Modernization

320 Nova Albion Way, San Rafael, CA 94903

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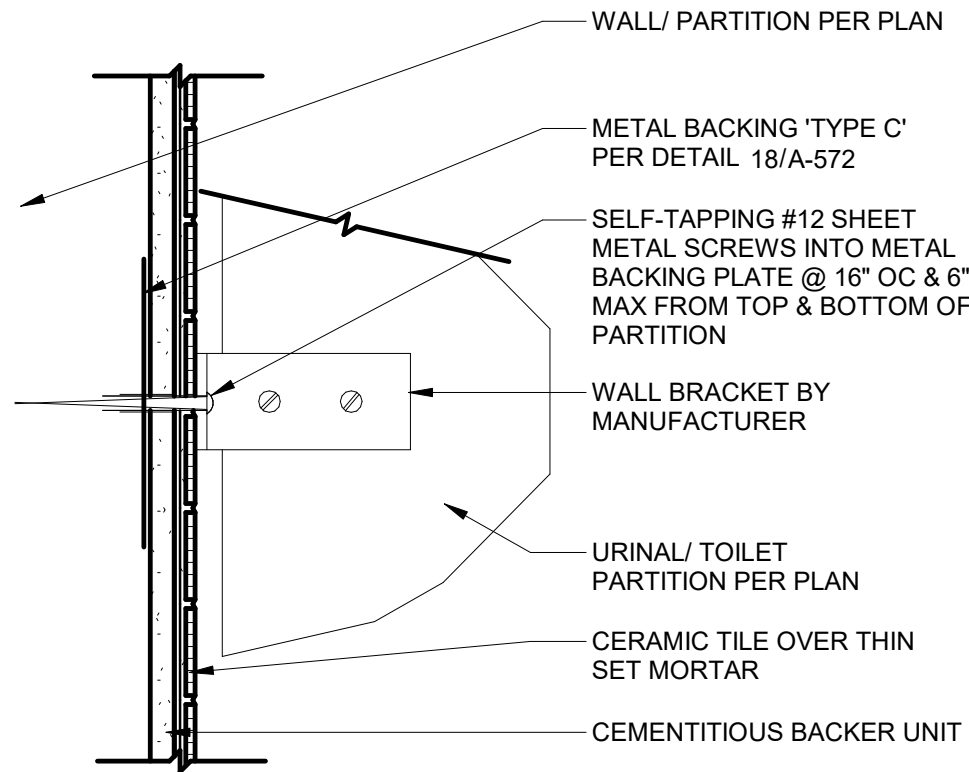
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94104 USA
(415) 981-2345
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2023-SR001-002

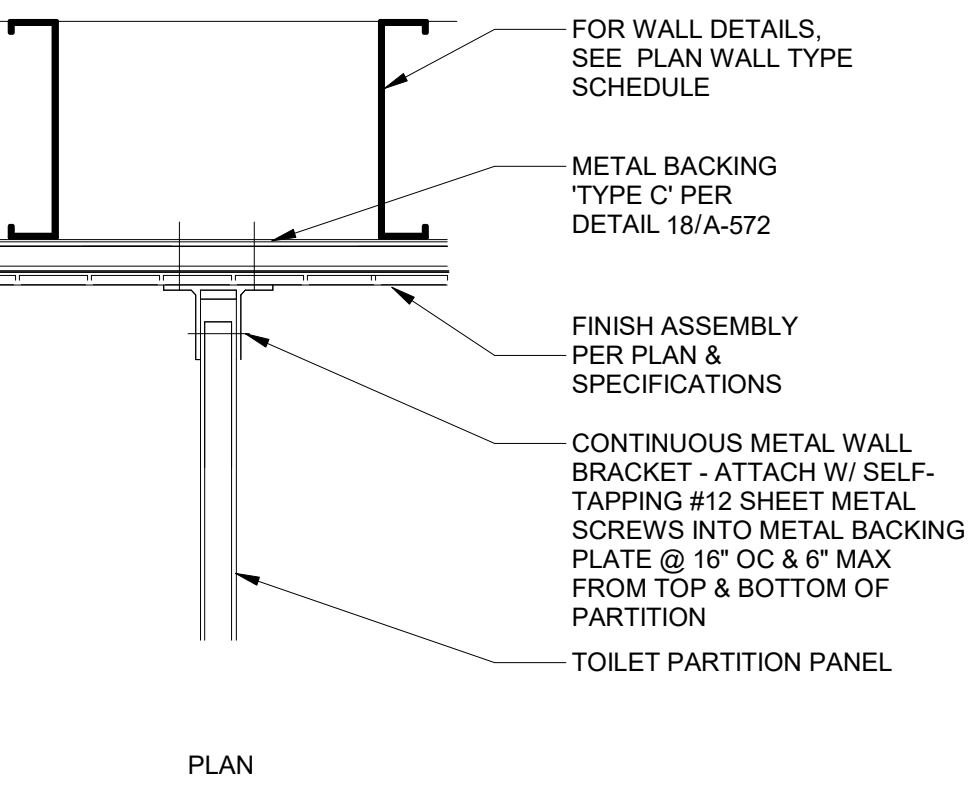
Accessibility Signage Details

G-004

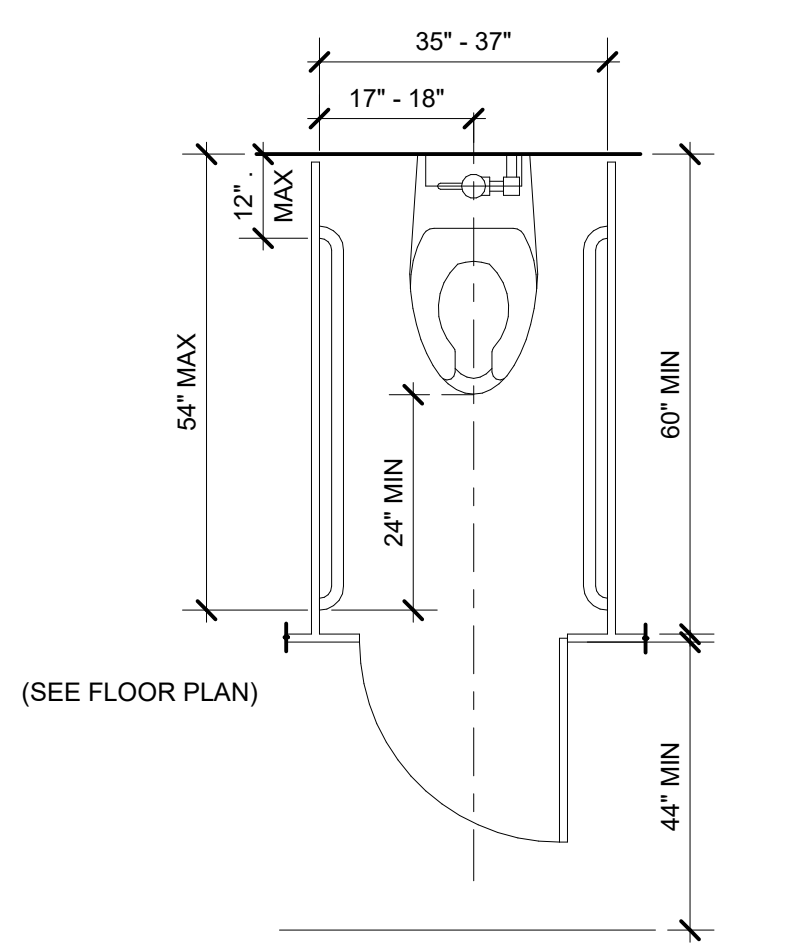


15 TOILET PARTITION ANCHORAGE
3" = 1'-0"

14 TYP TOILET PARTITION FLOOR ATTACHMENT
3" = 1'-0"

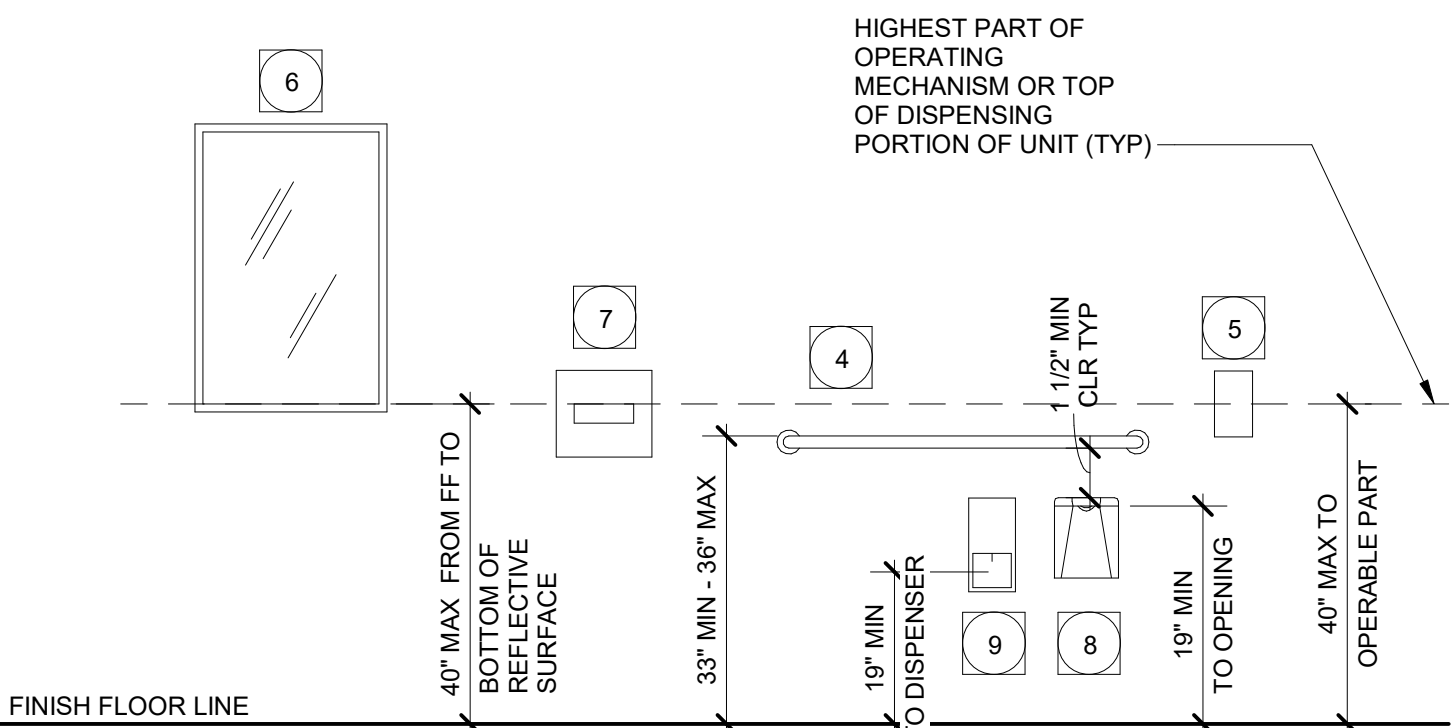


13 TYP TOILET PARTITION WALL ATTACHMENT
3" = 1'-0"

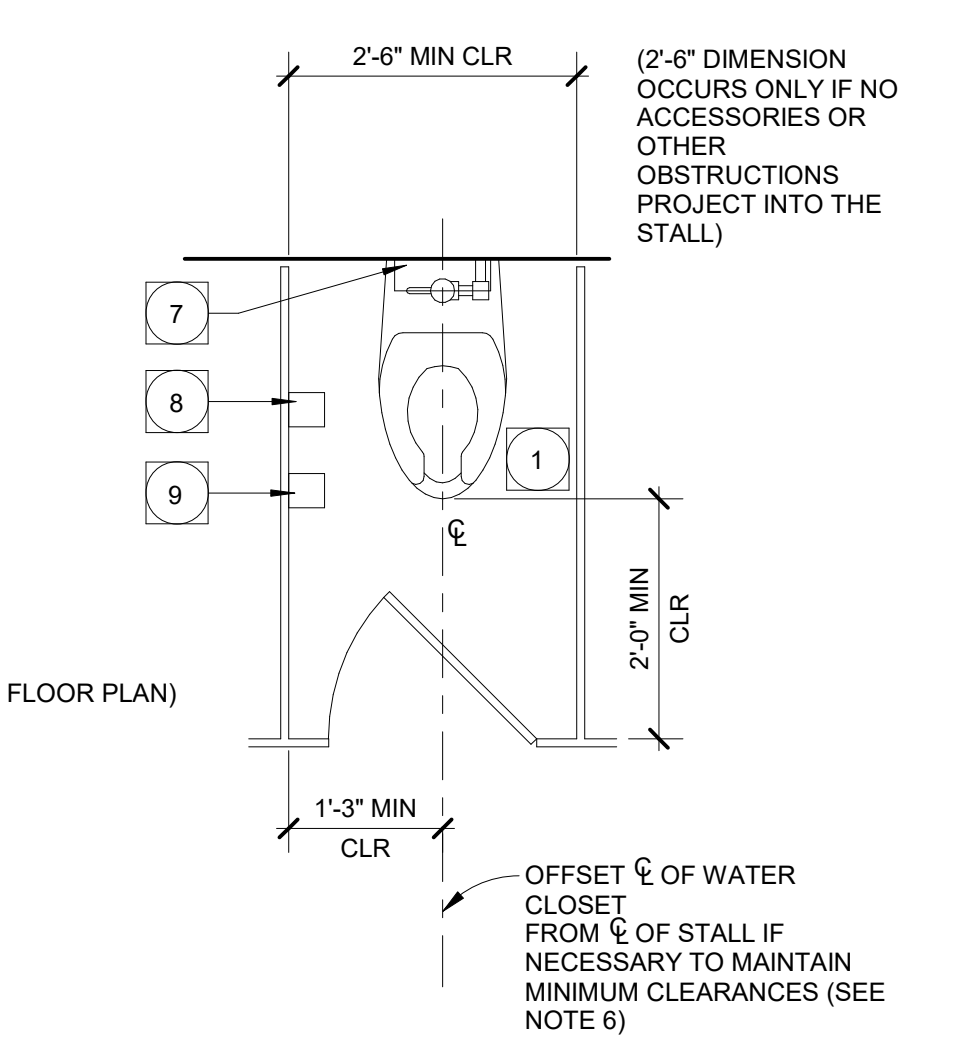


12 AMBULATORY TOILET STALL
1/2" = 1'-0"

11 TOILET PARTITION DIMENSIONS
1/2" = 1'-0"

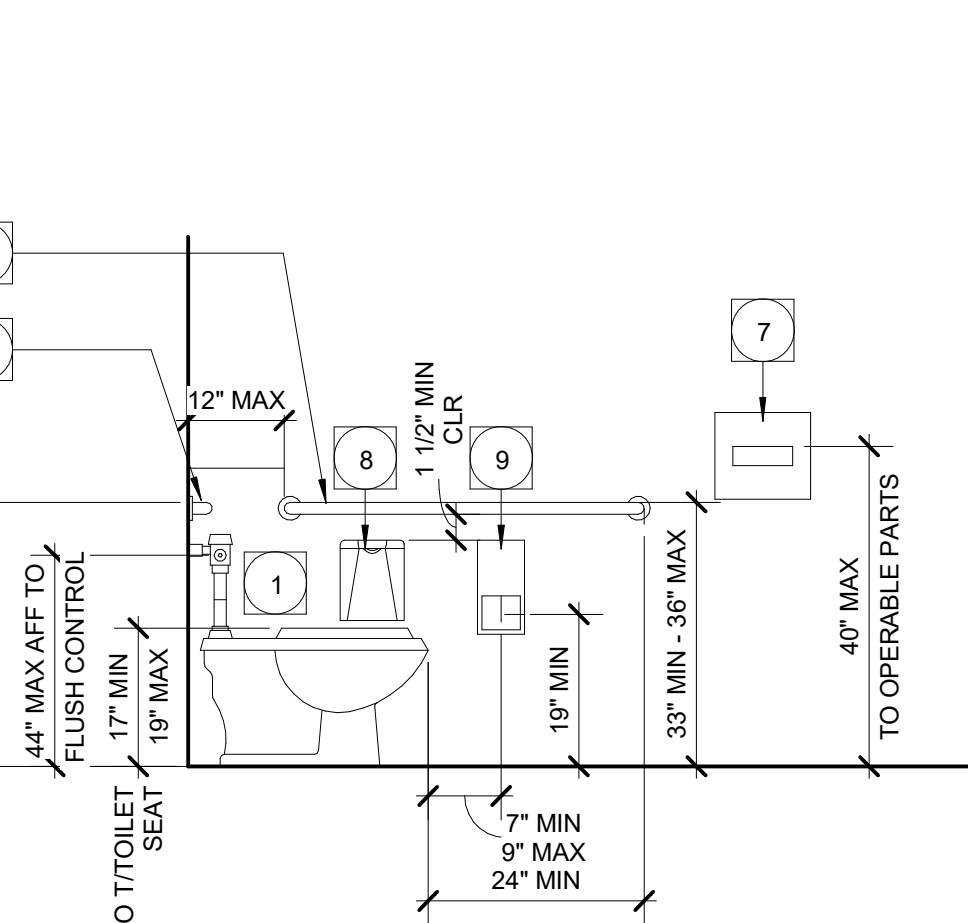


6 TOILET ACCESSORIES MOUNTING HEIGHT
1/2" = 1'-0"

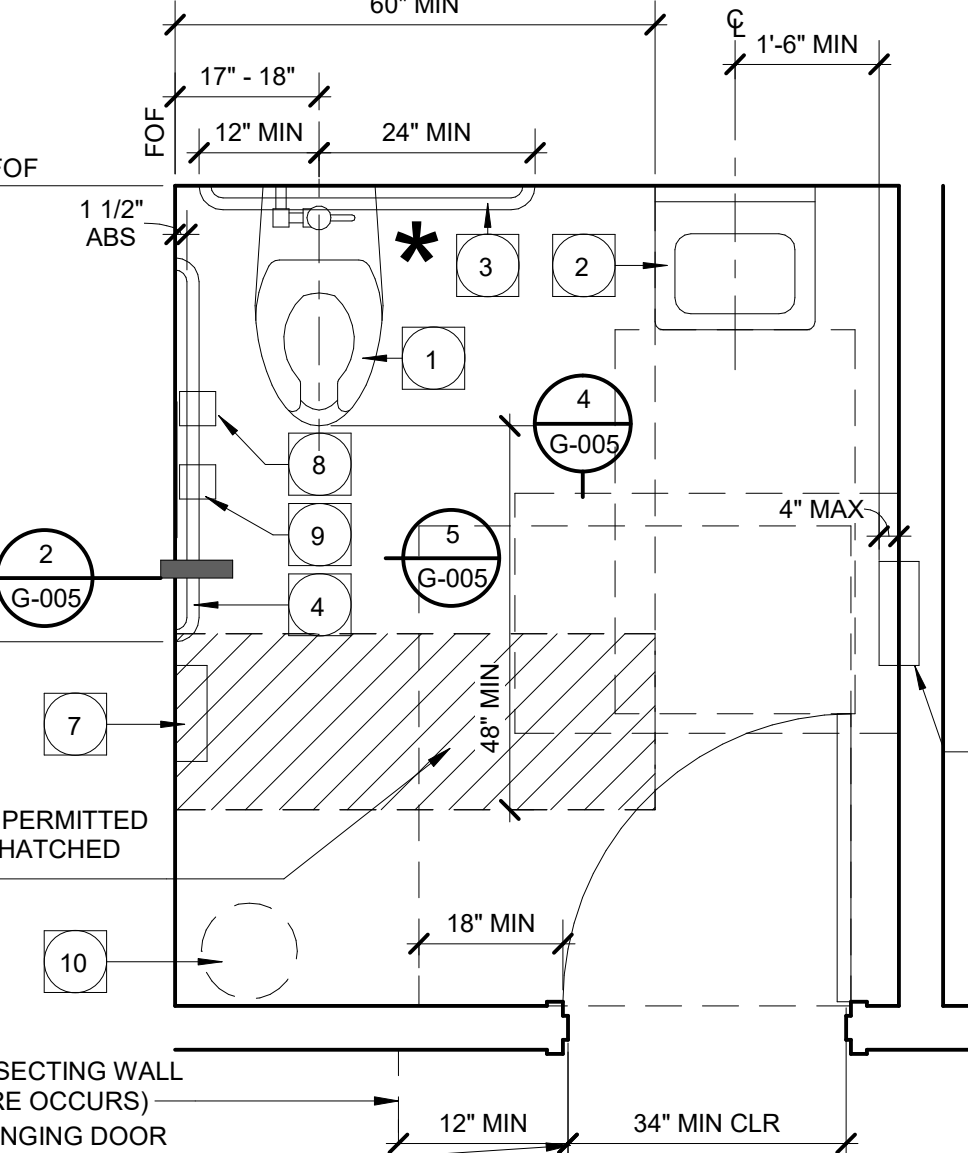


9 STANDARD TOILET STALL
1/2" = 1'-0"

5 ACCESSIBLE TOILET STALL REAR ELEVATION
1/2" = 1'-0"



4 ACCESSIBLE TOILET STALL ELEVATION
1/2" = 1'-0"



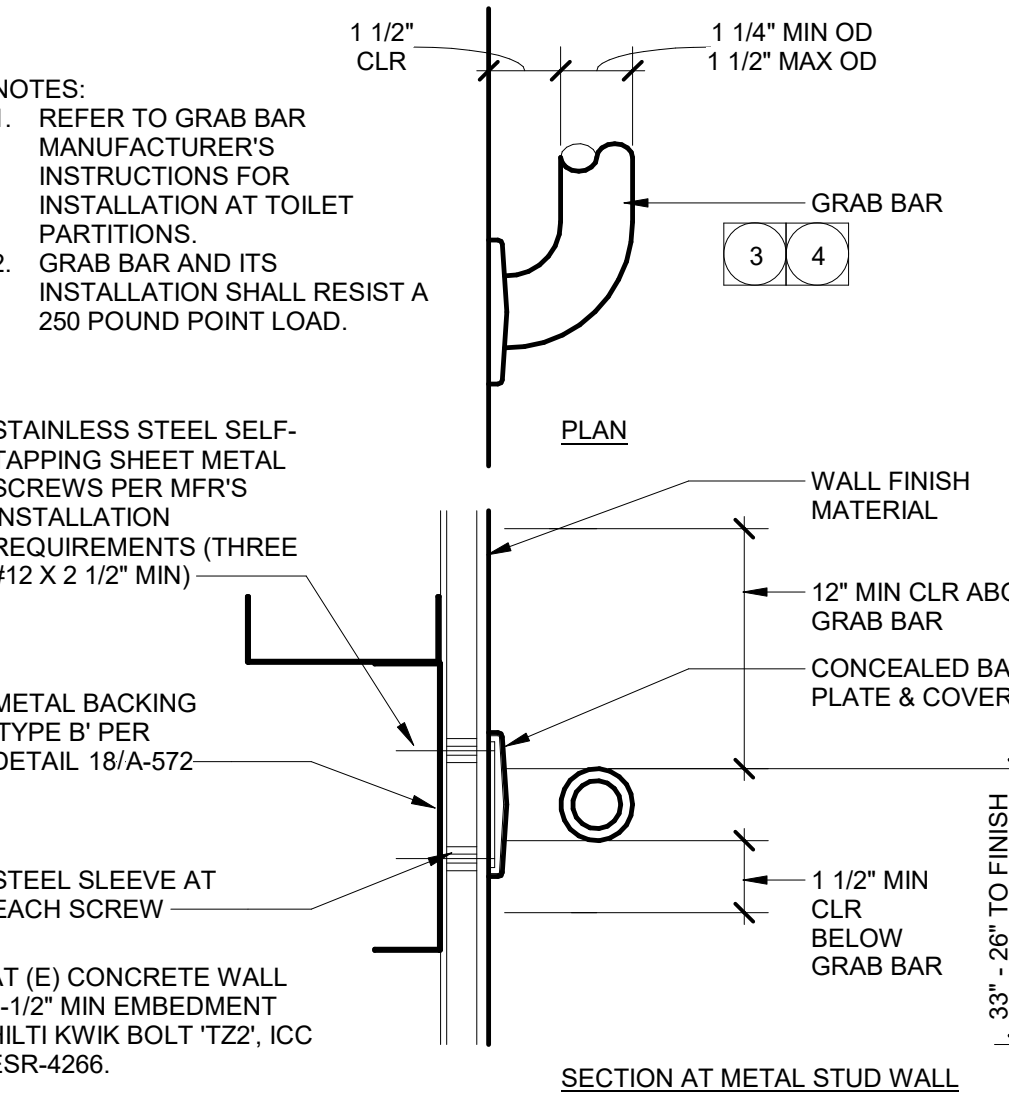
3 ACCESSIBLE TOILET ROOM
1/2" = 1'-0"

SANITARY FACILITIES NOTES & KEY NOTES

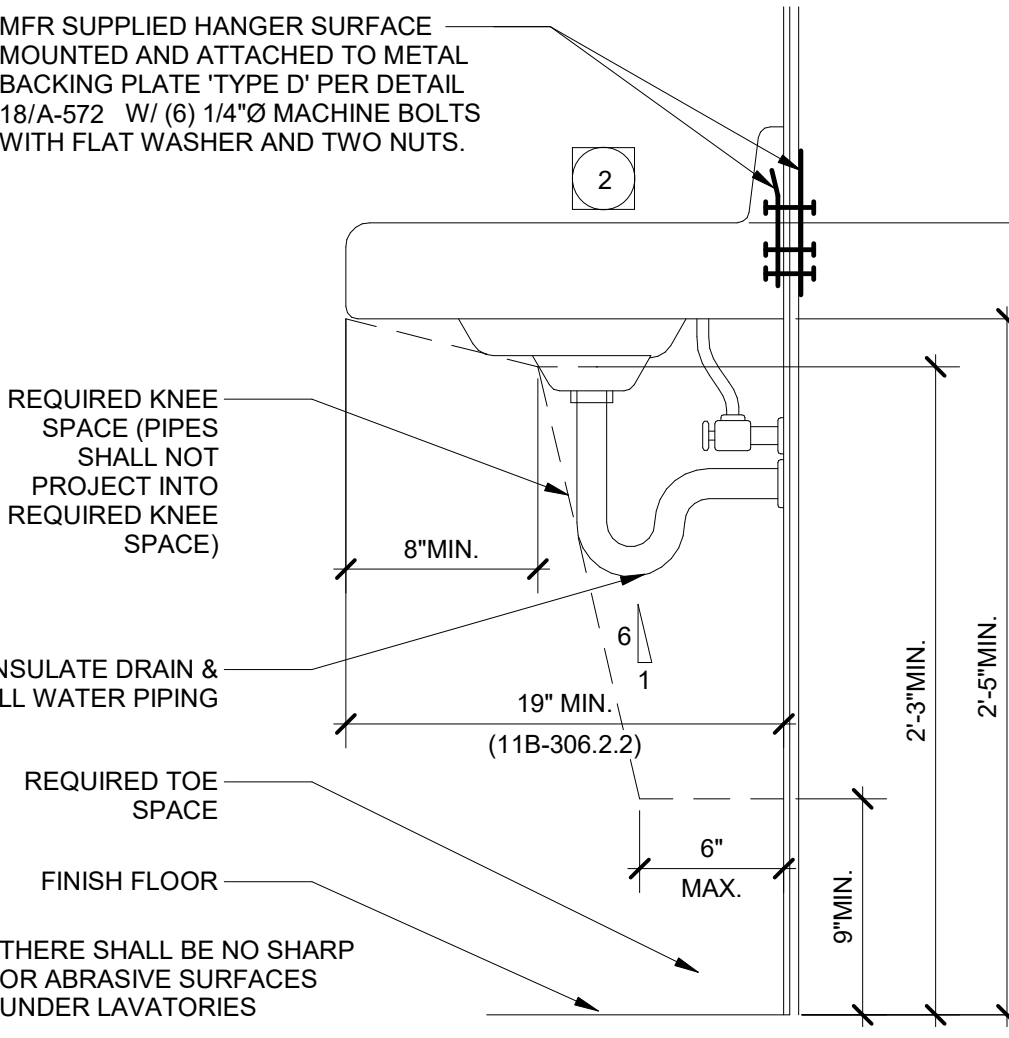
- FOR FULL DESCRIPTION OF TOILET ROOM ACCESSORIES SEE SPECIFICATIONS.
- FOR FULL DESCRIPTION OF PLUMBING FIXTURES SEE SPECIFICATIONS.
- SEE FINISH SCHEDULE AND SPECIFICATIONS FOR TOILET ROOM FINISHES.
- DIMENSIONS SHOWN ON THIS SHEET ARE TO FINISH SURFACES OF WALLS, FLOORS AND TOILET PARTITIONS, TO EDGES OF PLUMBING FIXTURES, TO ENDS OF GRAB BARS, AND TO EDGE OF TOILET ACCESSORY, AS INDICATED ON PLANS AND ELEVATIONS.
- AT ACCESSIBLE WATER CLOSETS, INSTALL FLUSH VALVE SO OPERATING HANDLE IS ON THE WIDE SIDE OF THE WATER CLOSET AREA.
- A. AT ALL STANDARD WATER CLOSETS, MAINTAIN A MINIMUM 1'-3" CLEARANCE FROM THE CENTERLINE OF THE WATER CLOSET TO ANY WALL, PARTITION OR OTHER OBSTRUCTION (GRAB BAR, TOILET ACCESSORY, ETC.) ON BOTH SIDES OF THE WATER CLOSET. (PLUMBING CODE REQUIREMENT)
B. AT ACCESSIBLE WATER CLOSETS, SET CENTER LINE OF WATER CLOSET 17 1/2" FROM FINISH FACE OF ADJACENT SIDE WALL OR PARTITION.
- SEE DETAIL 6/G-005 FOR MOUNTING HEIGHTS OF ACCESSORIES.
- GRAB BAR SHALL BE ABLE TO WITHSTAND MIN. OF 250-LBS EITHER HORIZONTAL OR VERTICAL FORCES APPLIED AT ANY POINT

- WALL MOUNTED ACCESSIBLE WATER CLOSET
- WALL MOUNTED LAVATORY
- GRAB BAR - NOMINAL 36" LONG (36" MIN)
- GRAB BAR - NOMINAL 48" LONG (42" MIN)
- SURFACE MOUNTED SOAP DISPENSER
- SURFACE MOUNTED MIRROR
- SURFACE MOUNTED TOILET SEAT COVER DISPENSER
- SURFACE MOUNTED SANITARY NAPKIN DISPOSAL @ SINGLE ACCOM & WOMENS TOILET ONLY
- SURFACE MOUNTED TOILET TISSUE DISPENSER
- WASTE RECEPTACLE WHERE OCCURS (NOT IN CLR SPACE) OF OI
- SURFACE MOUNTED ELECTRIC HAND DRYER

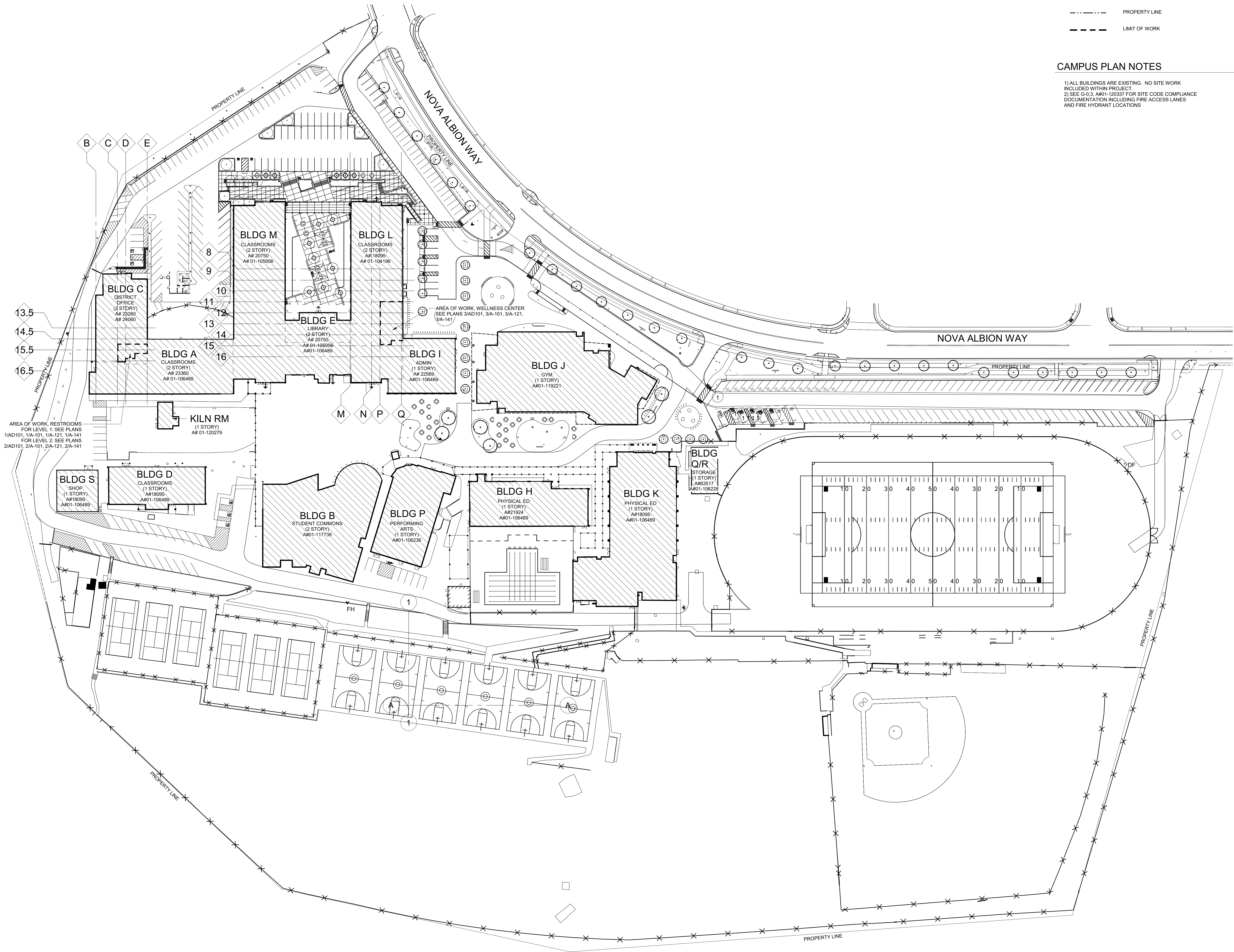
NOTE: THESE NOTES AND KEYNOTES APPLY THIS SHEET ONLY



2 GRAB BAR
3" = 1'-0"



1 WALL-MOUNTED ACCESSIBLE LAVATORY
1 1/2" = 1'-0"



CAMPUS PLAN LEGEND

- EXISTING BUILDING
- PROPERTY LINE
- LIMIT OF WORK

CAMPUS PLAN NOTES

- 1) ALL BUILDINGS ARE EXISTING. NO SITE WORK INCLUDED WITHIN PROJECT.
- 2) SEE G-0.3, A#01-120337 FOR SITE CODE COMPLIANCE DOCUMENTATION INCLUDING FIRE ACCESS LANES AND FIRE HYDRANT LOCATIONS

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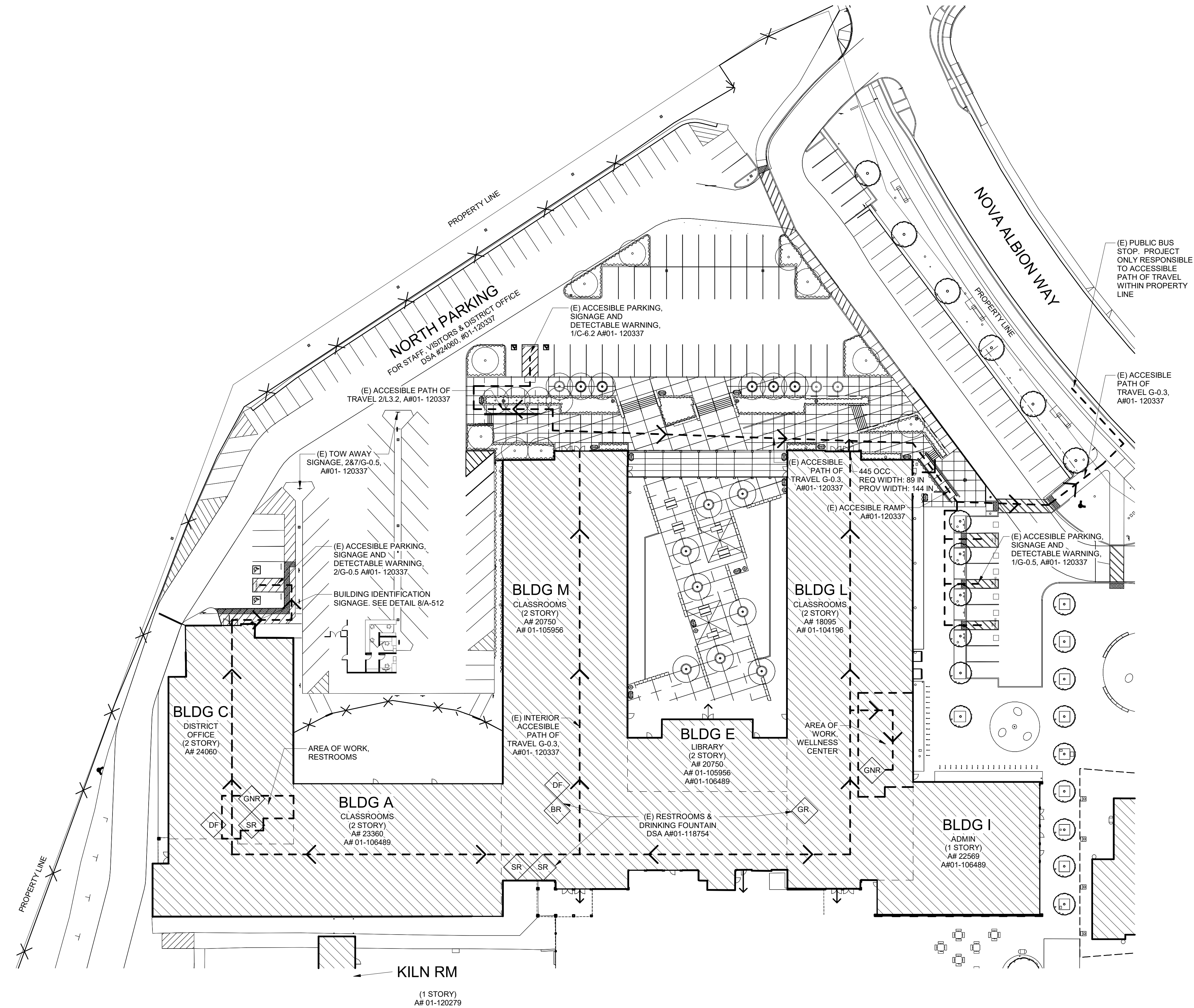
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94104 USA

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2023-SR001-002

Campus Plan

G-011



ACCESSIBILITY SITE PLAN
1/32" = 1'-0"

DSA NOTE:

ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1/2" MAXIMUM SLOPE OR VERTICAL LEVEL CHANGES EXCEEDING 1/4" MAXIMUM AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM AND SLIP RESISTANT. CROSS-SLOPE SHALL NOT BE STEEPER THAN 1:48 AND SLOPE IN THE DIRECTION OF TRAVEL SHALL NOT BE STEEPER THAN 1:20. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND FREE OF OBJECTS PROTRUDING MORE THAN 4" FROM THE WALL, ABOVE 27" AND LESS THAN 80" ABOVE THE FLOOR. ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.

SITE PLAN LEGEND

- EXISTING BUILDING
- PROPERTY LINE
- LIMIT OF WORK
- ACCESSIBLE PATH OF TRAVEL

PARKING CALCULATIONS

*NO PARKING SCOPE INCLUDED IN PROJECT. THESE CALCULATIONS ARE TO ILLUSTRATE COMPLIANCE OF EXISTING PARKING LOT ONLY

NORTH PARKING LOT

NUMBER OF (E) PARKING SPACES: 167

NUMBER OF REQUIRED ACCESSIBLE PARKING SPACES: 6 PROVIDED (E) : 10

VAN ACCESSIBLE SPACES REQUIRED: 1 PROVIDED (E): 3

CBC TABLE 11B-208.2, 11B-208.2.4 & 11B-502

CODE ANALYSIS

*THE OCCUPANCY OF EXISTING STRUCTURES AS DESCRIBED IN THE PROJECT INFORMATION CONTINUE WITHOUT CHANGE PER THE APPROVED DSA APPLICATION NUMBER (CBC 102.6).

NO OCCUPANCY CHANGE, SIGNIFICANT ALTERATION, OR INCREASE IN SQUARE FOOTAGE IS PROPOSED FOR THIS PROJECT SCOPE OF WORK. BUILDINGS DO NOT REQUIRE THE ADDITION OF SPRINKLERS. EXISTING BUILDING CONSTRUCTION TYPE WILL BE MAINTAINED.

BUILDING: SRCS TERRA LINDA HIGH SCHOOL
PROJECT: SRCS WELLNESS & RESTROOM MODERNIZATION

APPLICABLE CODE: 2022 CBC

BUILDINGS ARE EXISTING. NO CHANGE TO EXISTING OCCUPANCY, USE, SQUARE FOOTAGE OR HEIGHT.

FOR EXITING AND OCCUPANCY CALCULATIONS, SEE SHEET AC101.

PLUMBING FIXTURE COUNTS - CAMPUS - STAFF & STUDENT

a. REQUIRED FIXTURE CALCULATIONS PER CPC TABLE 422.1 AND 401

PREMISE OF PLUMBING CODE INTERPRETATION

- THE POPULATION OF THE TERRA LINDA HIGH SCHOOL (TLHS) CAMPUS DOES NOT CHANGE WITH THE RENOVATION THE RESTROOMS AND WELLNESS CENTER INCLUDED IN THIS PROJECT. THESE FUNCTIONS CURRENTLY EXIST ON CAMPUS IN THE SAME OR NEAR THE LOCATIONS INCLUDED AS PART OF THIS PROJECT. THESE FACILITIES REPLACE OR UPDATE SOME OF THOSE EXISTING SPACES IN ORDER FOR THEM TO FUNCTION BETTER.
- THE TLHS CAMPUS BUILDINGS WILL NOT ALL BE FULLY OCCUPIED SIMULTANEOUSLY BECAUSE THE SAME POPULATION OF STUDENTS AND TEACHERS WILL UTILIZE THESE BUILDINGS. THEREFORE, SUPPLYING FIXTURES ASSUMING ALL CAMPUS BUILDINGS ARE 100% OCCUPIED AT THE SAME TIME WOULD SUGGEST A FIXTURE COUNT IN EXCESS OF THE INTENT OF THE CODE.
- THIS PROJECT DOES NOT REMOVE ANY RESTROOMS AND ONLY INCREASES THE NUMBER OF AVAILABLE FIXTURES (INCLUDING ACCESSIBLE FIXTURES) PROVIDED ON CAMPUS.

EDUCATION (E) FACTORS	CAMPUS OCCUPANTS (1240 TOTAL)		MALE FIX REQUIRED (STUDENTS)	MALE FIX PROVIDED (STUDENTS)	MALE FIX REQUIRED (STAFF)	MALE FIX PROVIDED (STAFF)	FEMALE FIX REQUIRED (STUDENTS)	FEMALE FIX PROVIDED (STUDENTS)	FEMALE FIX REQUIRED (STAFF)	FEMALE FIX PROVIDED (STAFF)
	(1155 STUDENTS)	(85 STAFF)								
WATER CLOSETS (MALE 1:50, FEMALE 1:30)	577 MALE, 578 FEMALE	42 MALE, 43 FEMALE	12	23	1	13	20	43	2	15
URINALS (MALE 1:100)	577 MALE	42 MALE	6	31	1	1	X	X	X	X
LAVATORIES (MALE 1:40, FEMALE 1:40)	577 MALE, 578 FEMALE	42 MALE, 43 FEMALE	15	29	2	12	15	32	2	12
DRINKING FOUNTAINS (1:150)	1240 OCCUPANTS		9	13						

GENERAL NOTES

1. THE CONSTRUCTION CONTRACT IS FOR A COMPLETE AND FULLY FUNCTIONING INSTALLATION. THESE DOCUMENTS DESCRIBE THE DESIGN INTENT AND SPECIFIC REQUIREMENTS OF THE INSTALLATION. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. THESE DOCUMENTS ARE NOT MEANT TO SHOW EVERY ITEM REQUIRED TO CONSTRUCT THE WORK. ITEMS SUCH AS, BUT NOT LIMITED TO, FASTENERS, CONNECTORS, FILLERS, MISCELLANEOUS CLOSURE ELEMENTS, ANCILLARY CONTROL WIRING AND POWER WHERE REQUIRED FOR THE CONTROL OR OPERATION OF THE PROVIDED EQUIPMENT, ETC. ARE NOT ALWAYS SHOWN BUT ARE CONSIDERED TO BE INCLUDED IN THE SCOPE OF THE WORK. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE A FULLY FUNCTIONING INSTALLATION WHICH MEETS THE DESIGN INTENT, INCLUDING BUT NOT LIMITED TO THE SPECIFIC REQUIREMENTS IN THESE DOCUMENTS.
2. THESE DOCUMENTS DESCRIBE WORK UNDER A SINGLE CONSTRUCTION CONTRACT. THE USE OF SUB-CONTRACTORS IS THE ELECTION OF THE GENERAL CONTRACTOR. IT IS NOT THE INTENT OF THE DOCUMENTS TO DIVIDE THE WORK AMONG SUB-CONTRACTORS. WHERE THE DOCUMENTS IDENTIFY WORK WITH SUCH NOTES AS "NOT IN MECHANICAL WORK" OR "NOT IN ELECTRICAL WORK" OR "SEE STRUCTURAL DRAWINGS," IT MEANS THAT THE WORK IS NOT FURTHER DESCRIBED OR SPECIFIED ON THE DRAWING WHERE SUCH NOTES APPEAR. IT DOES NOT PRECLUDE THE CONTRACTOR FROM DELEGATING THE WORK TO ENTITIES OF HIS ELECTION. IN ADDITION, THE DIVISION OF THE CONTRACT DOCUMENTS INTO ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND MECHANICAL OR OTHER DESIGN DISCIPLINES IS FOR CONVENIENCE ONLY, AND IS NOT INTENDED TO DIVIDE THE WORK AMONG VARIOUS SUB-CONTRACTORS, OR IMPLY THAT ALL OF THE WORK FOR A PARTICULAR TRADE IS SHOWN ONLY IN THOSE DRAWINGS OR SPECIFICATIONS.
3. REFERENCE TO "CONTRACTOR" IN THESE DOCUMENTS SHALL BE INTERPRETED AS REFERRING TO THE GENERAL CONTRACTOR OR TO ANY SUB-CONTRACTOR TO THE GENERAL CONTRACTOR, COLLECTIVELY OR AS INDIVIDUAL ENTITIES. FURTHER, REFERENCE TO A PARTICULAR SUB-CONTRACTOR IS FOR CONVENIENCE ONLY, AND IS NOT INTENDED TO LIMIT THE SCOPE OF THE WORK TO THAT TRADE OR LIMIT THE RESPONSIBILITIES OF THE GENERAL CONTRACTOR TO COORDINATE THE WORK OF ALL TRADES AS DEFINED BY THE OWNER/CONTRACTOR AGREEMENT.
4. THE DRAWINGS AND PROJECT MANUAL ESTABLISH DETAILED MINIMUM REQUIREMENTS FOR THE DESIGN AND CONSTRUCTION OF THE PROJECT. PARTIAL OR OUTDATED SETS OF CONTRACT DOCUMENTS SHOULD NOT BE DISTRIBUTED OR UTILIZED.
5. WORK IS TO COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL CODES AND REGULATIONS IN FORCE AT THE TIME OF CONSTRUCTION.
6. PERMIT FEES MUST BE PAID AND PERMITS OBTAINED PRIOR TO STARTING CONSTRUCTION. PERMITS ARE TO BE POSTED IN A CONSPICUOUS PLACE ON THE PROJECT SITE AS REQUIRED BY AUTHORITY HAVING JURISDICTION.
7. UNLESS SPECIFICALLY NOTED AS BEING RE-USED, MATERIALS FURNISHED AT THE JOB SITE SHALL BE NEW AND FREE FROM DEFECTS, AND SHALL BE STORED AT THE SITE IN SUCH A MANNER AS TO PROTECT THEM FROM DAMAGE. ALL WORK SHALL BE BEST PRACTICE OF EACH TRADE.
8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETELY COORDINATE WORK AS REQUIRED TO MEET THE DESIGN INTENT AS DEFINED BY THE DOCUMENTS. THE CONTRACTOR SHALL LAY OUT AND SEQUENCE THE INSTALLATION OF WORK SO THAT THE DIFFERENT SYSTEMS DO NOT OBSTRUCT INSTALLATION OF SUBSEQUENT WORK. IN GENERAL, SYSTEMS INSTALLED FIRST SHOULD BE AS HIGH AND AS TIGHT TO THE STRUCTURE AS POSSIBLE TO ALLOW SPACE FOR SYSTEMS WHICH FOLLOW.
9. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO REVIEW DRAWINGS, PROJECT MANUAL, ADDENDA, BULLETINS, ETC. IN ORDER TO ENSURE COMPLETE COORDINATION OF WORK. FAILURE TO REVIEW AND COORDINATE ALL CONTRACT DOCUMENTS BY THE GENERAL CONTRACTOR WITH THE SUB-CONTRACTORS FOR APPLICABLE PORTIONS OF THE WORK DOES NOT RELIEVE ANY PARTY FROM PROVIDING MATERIALS AND WORK REQUIRED FOR A COMPLETE INSTALLATION.
10. THE PROJECT MANUAL, WHICH INCLUDES THE GENERAL CONDITIONS, SUPPLEMENTAL CONDITIONS, AND TECHNICAL SPECIFICATIONS, AND THE DRAWINGS, ARE COMPLEMENTARY AND TOGETHER DESCRIBE THE PROJECT REQUIREMENTS. WHERE THERE ARE DISCREPANCIES BETWEEN THE PROJECT MANUAL AND THE DRAWINGS, THE CONTRACTOR SHALL ADVISE THE ARCHITECT OF SUCH AND REQUEST CLARIFICATION. IN GENERAL, THE PROJECT MANUAL TAKES PRECEDENCE OVER DRAWINGS. LARGE SCALE DETAILS TAKE PRECEDENCE OVER SMALL SCALE DETAILS.
11. THE GENERAL CONTRACTOR AND SUB-CONTRACTORS SHALL VISIT THE SITE PRIOR TO BIDDING IN ORDER TO FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS AND THE IMPACT OF THE PROPOSED WORK INDICATED ON THE DRAWINGS AND SPECIFICATIONS ON THESE CONDITIONS. ANY QUESTIONS REGARDING THE COORDINATION OF NEW WORK WITH EXISTING CONDITIONS MUST BE SUBMITTED TO THE ARCHITECT IN WRITING PRIOR TO THE BID SUBMISSION AND WITH ADEQUATE TIME FOR RESPONSE TO ALL BIDDERS. THE ARCHITECT WILL RESPOND TO TIMELY QUESTIONS WITH A WRITTEN RESPONSE TO ALL BIDDERS.
12. ALL WORK NOTED "NIC" IS NOT IN CONTRACT. CONTRACTOR SHALL COORDINATE WITH OTHER CONTRACTORS ON SITE PER REQUIREMENT ESTABLISHED BY OWNER.
13. EXISTING DIMENSIONS AND CONDITIONS INDICATED IN THESE DOCUMENTS ARE FROM ELECTRONIC CAD INFORMATION PROVIDED BY THE OWNER AND ARE ASSUMED TO BE ACCURATE AS SHOWN. THE CONTRACTOR SHALL VERIFY THE ACCURACY OF SUCH INFORMATION PRIOR TO THE START OF CONSTRUCTION, AND ADVISE THE ARCHITECT OF ANY DEVIATIONS OR CONFLICTS WITH THE INFORMATION SHOWN ON THE DRAWINGS.
14. DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR SHALL REFER TO THE DIMENSIONS INDICATED OR THE ACTUAL SIZES OF CONSTRUCTION ITEMS, WHERE NO DIMENSION OR METHODS OF DETERMINING A LOCATION EXISTS, VERIFY DIMENSION WITH ARCHITECT PRIOR TO LAYOUT AND INSTALLATION.
15. THE DRAWINGS AND REFERENCED DETAILS HAVE BEEN DIMENSIONED IN ORDER TO ESTABLISH THE CONTROL AND GUIDELINES FOR FIELD LAYOUT. WHERE DISCREPANCIES EXIST BETWEEN THE DRAWINGS AND FIELD CONDITIONS THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF SUCH PRIOR TO START OF WORK.
16. DIMENSIONS ON DOCUMENTS ARE TO FACE OF FINISH MATERIALS UNLESS OTHERWISE INDICATED.
17. WHERE DIMENSIONS INDICATED ARE NOTED AS VERIFY IN FIELD (VIF) THE DIMENSION SHOWN IS THE BASIS OF DESIGN, BUT MAY DIFFER FROM ACTUAL CONDITIONS. CONTRACTOR SHALL VERIFY THESE DIMENSIONS WHILE LAYING OUT THE WORK AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO PROCEEDING. WHERE DIMENSIONS ARE NOTED AS "+/-" FIELD DIMENSIONS MAY VARY FROM THE NOTED DIMENSIONS BY MINOR AMOUNTS. DISCREPANCIES OF MORE THAN 1" SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CONFIRMATION. DIMENSIONS NOTED AS "HOLD" OR "CLEAR" ARE TO BE ACCURATE TO WITHIN 1/4".
18. DETAILS ARE KEYED TO THE PLANS AT TYPICAL LOCATIONS. TYPICAL DETAILS APPLY TO ALL LOCATIONS WHICH ARE SIMILAR BUT ARE NOT NECESSARILY KEYED TO EVERY LOCATION TO WHICH THEY APPLY. CONTRACTOR IS RESPONSIBLE TO COORDINATE THE LOCATION OF ALL TYPICAL DETAILS AND INSTALL THE WORK INDICATED. FEATURES NOT SHOWN IN THEIR ENTIRETY SHALL BE COMPLETELY PROVIDED AS IF SHOWN IN FULL. IF DISCREPANCIES EXIST, CONTRACTOR IS TO REQUEST CLARIFICATION BY THE ARCHITECT OF SUCH CONDITIONS.
19. FINISH FLOOR ELEVATIONS REFER TO TOP OF CONCRETE SLAB, UNLESS NOTED OTHERWISE. WHERE CONCRETE SLAB IS DERESSED TO ACCOMMODATE SETTING BEDS, RAISED ACCESS FLOOR, OR OTHER SIMILAR FLOOR ASSEMBLIES, FINISH FLOOR ELEVATIONS ARE TO TOP OF FINISH FLOOR ASSEMBLY INDICATED.
20. FIRE RATING "TAPES" INDICATED ON FLOOR PLANS SHOW EXTENT OF FIRE RATED PARTITIONS, BARRIERS AND FIRE WALLS. RATING IN A PARTITION SHALL BE CONTINUOUS AND SHALL CONTINUE OVER DOORS AND OVER AND BELOW WINDOWS WHETHER OR NOT THEY ARE SHOWN AS SUCH ON THE PLANS. REFER TO PARTITION DETAILS FOR REQUIREMENTS OF THE RATED ASSEMBLIES.
21. VERIFY AND COORDINATE SIZES, LOCATION AND MOUNTING REQUIREMENTS OF ALL EQUIPMENT AND FIXTURES IN ACCORDANCE WITH THE DETAILS ON THESE DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE REQUIRED BLOCKING, BACKING, SLEEVES, ETC. FOR A COMPLETE, NEAT INSTALLATION. COORDINATE INSTALLATION OF ALL SLEEVES AND OPENINGS AS REQUIRED THROUGH ALL EXISTING OR NEW CONSTRUCTION.

22. DETAILS INDICATE DESIGN INTENT OF WORK IN PLACE. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB CONDITIONS OR DIMENSIONS AND ARE TO BE INCLUDED AS PART OF THE WORK WHEN APPROVED BY DSA.
23. PROVIDE PROTECTION FOR PEDESTRIANS OR OCCUPANTS OF ADJACENT AREAS OF THE BUILDING AS NECESSARY AND AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
24. MAINTAIN THE PREMISES CLEAN AND FREE OF TRASH AND DEBRIS. PROTECT PROJECT, THE SITE, AND PERSONAL PROPERTY FROM DAMAGE.
25. PROTECT WORK AREAS AND EXISTING ADJACENT AREAS, INCLUDING EXISTING UTILITIES, FROM DAMAGE, REPAIR, REPLACE, OR PATCH ANY DAMAGE DUE TO CONSTRUCTION. REPAIRED CONSTRUCTION IS SUBJECT TO REVIEW AND ACCEPTANCE BY ARCHITECT AND APPROVED BY DSA.
26. PROVIDE REQUIRED TEMPORARY UTILITIES, BRACING, SUPPORTS, SHORING, ETC. CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN ADEQUACY AND SAFETY OF ERECTION.
27. CONTRACTOR SHALL MAINTAIN CURRENT UPDATED RECORD DRAWINGS AND SPECIFICATIONS ON SITE AT ALL TIMES.
28. CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO SITE SAFETY AND SECURITY FOR WORKERS AND GENERAL MEMBERS OF THE PUBLIC.
29. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL STIFFENERS, BRACING, BACK-UP PLATES AND SUPPORTING BRACKETS REQUIRED FOR APPROPRIATE INSTALLATION OF ALL TOILET ROOM ACCESSORIES AND PARTITIONS, AND ALL WALL, MOUNTED OR SUSPENDED MECHANICAL, ELECTRICAL OR MISCELLANEOUS EQUIPMENT AS DETAILED ON THESE DRAWINGS.
30. PIPE SLEEVES IN MECHANICAL EQUIPMENT ROOMS EXTEND 2" ABOVE THE FLOOR LINE. FILL THE ANNULAR SPACES OF PIPE SLEEVES THROUGH THE FLOOR OR THROUGH RATED WALLS WITH FIRE SAFING AND SMOKE SEAL COMPOUND AS INDICATED ON THE SPECIFICATION, AND AS APPROVED BY DSA ON THESE DRAWINGS.
31. SIZES OF MECHANICAL EQUIPMENT PADS AND BASES SHOWN ON PLAN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY DIMENSIONS OF ALL PADS AND BASES WITH THE APPROPRIATE EQUIPMENT MANUFACTURERS. CONTRACTOR SHALL COORDINATE MOUNTINGS WITH APPROPRIATE EQUIPMENT MANUFACTURERS. PADS AND BASES SHALL BE INDICATED ON SUBMITTALS AND BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO LAY-OUT OF REINFORCING STEEL OR STEEL DECK.
32. PROVIDE ACCESS PANELS FOR MECHANICAL AND ELECTRICAL EQUIPMENT AS REQUIRED BY APPLICABLE CODES. ALL ACCESS PANELS IN GYP BOARD SHALL BE CONCEALED, MUD-IN TYPE. ELECTRICAL J-BOXES, PLUMBING CLEANOUTS, FIRE DAMPERS AND OTHER SIMILAR ITEMS REQUIRING ACCESS ARE NOT TO BE LOCATED ABOVE GYPSUM BOARD OR SIMILAR NON-ACCESSIBLE CEILING.

ABBREVIATIONS

ADJ	ADJACENT, ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
BLDG	BUILDING
CIP	CAST-IN-PLACE
CJ	CONSTRUCTION JOINT, CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR, CLEARANCE
CMU	CONCRETE MASONRY UNIT(S)
COL	COLUMN
CONC	CONCRETE
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DWG	DRAWING
EA	EACH
EF	EXHAUST FAN
EJ	EXPANSION JOINT
EL	ELEVATION (GRADE)
EWCC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXP	EXPOSED
EXT	EXTERIOR
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FFE	FURNITURE, FIXTURES & EQUIPMENT
FIN	FINISH, FINISHED
FR	FIRE RATED, FIRE RETARDANT
FRTW	FIRE RETARDANT TREATED WOOD
GA	GAUGE
GALV	GALVANIZED
GYP BD	GYPSUM BOARD
HM	HOLLOW METAL
HORIZ	HORIZONTAL
INT	INTERIOR
MAX	MAXIMUM
MFR	MANUFACTURER
MIN	MINIMUM
MO	MASONRY OPENING
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OFICI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
OP	OPPOSITE HAND
OPP	OPPOSITE
PL	PROPERTY LINE
PPT	PRESERVATIVE PRESSURE TREATED
PR	PAIR
PSF	PER SQUARE FOOT
RD	ROOF DRAIN
SF	SQUARE FOOT
SIM	SIMILAR
SPEC	SPECIFICATIONS
TYP	TYPICAL
UL	UNDERWRITER'S LABORATORIES
UON	UNLESS OTHERWISE NOTED
VERT	VERTICAL
VIF	VERIFY IN FIELD
WI	WITH
W/O	WITHOUT

San Rafael City Schools



310 Nova Albion Way, San Rafael, CA 94903

SRCS Wellness & Restroom Modernization

320 Nova Albion Way, San Rafael, CA 94903

Date Issued For
03/08/2024 DSA Resubmittal



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Suite 400
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WWW.HED.DESIGN



- EGRESS & EXIT ANALYSIS NOTES**
- EGRESS WIDTH REQUIREMENTS PER **C.B.C. SECTION 1005.1**. THE CAPACITY, IN INCHES, OF MEANS OF EGRESS COMPONENTS OTHER THAN STAIRWAYS SHALL BE CALCULATED BY MULTIPLYING THE OCCUPANT LOAD SERVED BY SUCH COMPONENT BY A MEANS OF EGRESS CAPACITY FACTOR OF **0.2 INCH PER OCCUPANT**.
 - EGRESS WIDTH REQUIREMENTS PER **C.B.C. SECTION 1005.3.1**. THE CAPACITY, IN INCHES, OF MEANS OF EGRESS STAIRWAYS SHALL BE CALCULATED BY MULTIPLYING THE OCCUPANT LOAD SERVED BY SUCH STAIRWAYS BY A MEANS OF EGRESS CAPACITY FACTOR OF **0.3 INCH PER OCCUPANT**.
 - MAXIMUM COMMON PATH OF EGRESS TRAVEL (CPT) PER **C.B.C. TABLE 1006.2.1**
 - MAXIMUM OCCUPANT LOAD OF SPACE: **49 OCC.**
 - OCCUPANCY E: **75'-0"** (REQUIRED) WITH FIRE SPRINKLER SYSTEM
 - MAXIMUM EXIT ACCESS TRAVEL DISTANCE (EATD) PER **C.B.C. TABLE 1017.2**
 - OCCUPANCY E: **250'-0"** (REQUIRED) WITH FIRE SPRINKLER SYSTEM
 - ONLY THE LONGEST EATDS AND CPTS SHOWN ON THIS PLAN, THESE REPRESENT THE WORST CASE SCENARIOS FOR EACH FLOOR
 - CORRIDOR FIRE-RESISTANCE RATING PER **C.B.C. TABLE 1020.1**
 - OCCUPANCY E: **0 HR** (REQUIRED) WITH FIRE SPRINKLER SYSTEM
 - ANY TWO EXITS, EXIT ACCESS DOORWAYS, OR EXIT ACCESS STAIRWAYS SHALL BE PLACED AT A DISTANCE APART EQUAL TO NOT LESS THAN **1/3** OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE BUILDING OR AREA TO BE SERVED MEASURED IN A STRAIGHT LINE BETWEEN THEM WHERE A BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM PER **C.B.C. 1007.1.1 EXCEPTION #2**.
 - ALL STAIRS, DOORS & RAMPS ARE ACCESSIBLE MEANS OF EGRESS U.O.N
 - PLATFORM LIST OPERATE WITHOUT AN ATTENDANT AND COMPLY WITH CBC 1009.5, 11B-206.7, 11B-410 & ASME 18.1 AND COR TITL 8, DIVISION 1, CH. 4, SUBCHAPTER 6, ELEVATOR SAFETY ORDERS, SECTIONS 3094.2 TO 3142.2, LIFE OPERATION, DOORS & GATES AND OPERABLE PARTS TO COMPLY WITH CBC 11B-410

EGRESS & EXIT ANALYSIS LEGEND

---●---> COMMON PATH OF EGRESS TRAVEL (CPT)

---> EXIT ACCESS TRAVEL DISTANCE (EATD)
ALL PATHS LEAD TO ACCESSIBLE MEANS OF EGRESS U.O.N

---> ACCESSIBLE PATH

DOOR 184 36.8 in REQD 0 in PROV
↑
STAIRS/ DOOR WIDTH
NUMBER OF OCCUPANTS

STAIR / DOOR CAPACITY TAG

EGRESS SIZING:
STAIRS: 3' / OCCUPANT (CBC 1005.3.1)
DOORS: 2' / OCCUPANT (CBC 1005.3.2)

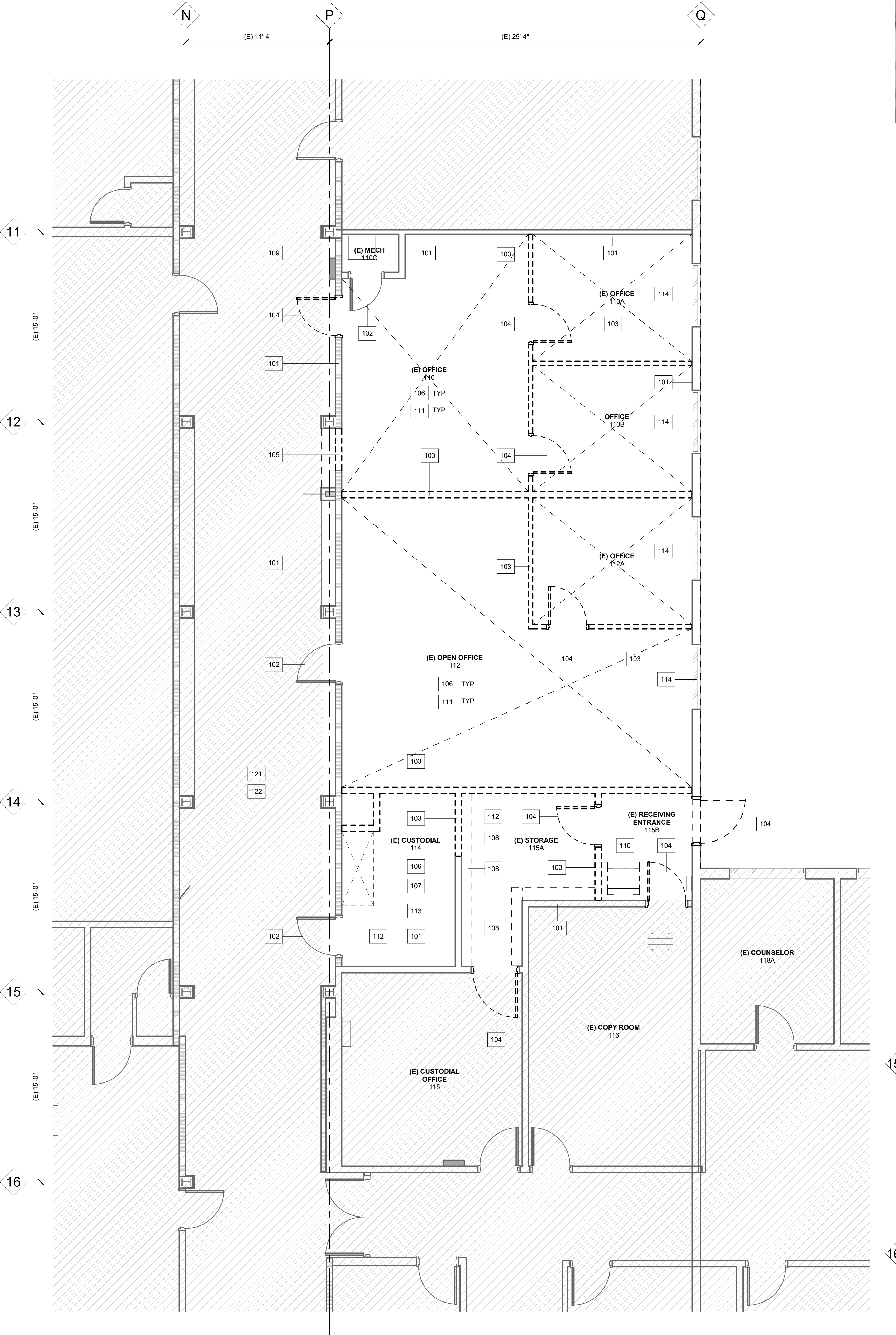
NOTE: DOUBLE DOORS HAVE AT LEAST 1 LEAF WITH MIN. 32" CLEARANCE PROVIDED

* EXIT DISCHARGE

Room name	ROOM NAME
150 SF	ROOM AREA
B	ROOM FUNCTION TYPE
XXXX	ROOM OCCUPANT LOAD FACTOR
92 OCC.	ROOM OCCUPANT LOAD

EGRESS, EXIT AND EXIT ACCESS LIMITATIONS		
MAXIMUM FLOOR AREA ALLOWANCES / OCCUPANT	VARIABLES	T 1004.5
MAXIMUM LENGTH OF EXIT TRAVEL	250'-0"	T 1017.2
MAXIMUM LENGTH OF COMMON PATH OF EGRESS TRAVEL	75'-0"	T 1006.2.1
MINIMUM DOOR WIDTH	32" CLEAR	T 1010.1.1
MINIMUM CORRIDOR WIDTH	44" MIN.	T 1020.2
MINIMUM # EXITS PER FLOOR PER OCCUPANT LOAD	2	T 1006.3.2
1-500 = 2, 501-1000 = 3, >1000 = 4		
MINIMUM EGRESS CEILING HEIGHT	7'-6"	T 1003.2

FOR SI: 1 FOOT = 304.8 mm, 1 INCH = 25.4 mm.



3 DEMO PLAN - BLDG L LEVEL 01 - WELLNESS

1/4" = 1'-0"

DEMO PHOTO REFERENCE NOTES



P1. EXISTING RESTROOM TILE TO BE REMOVED

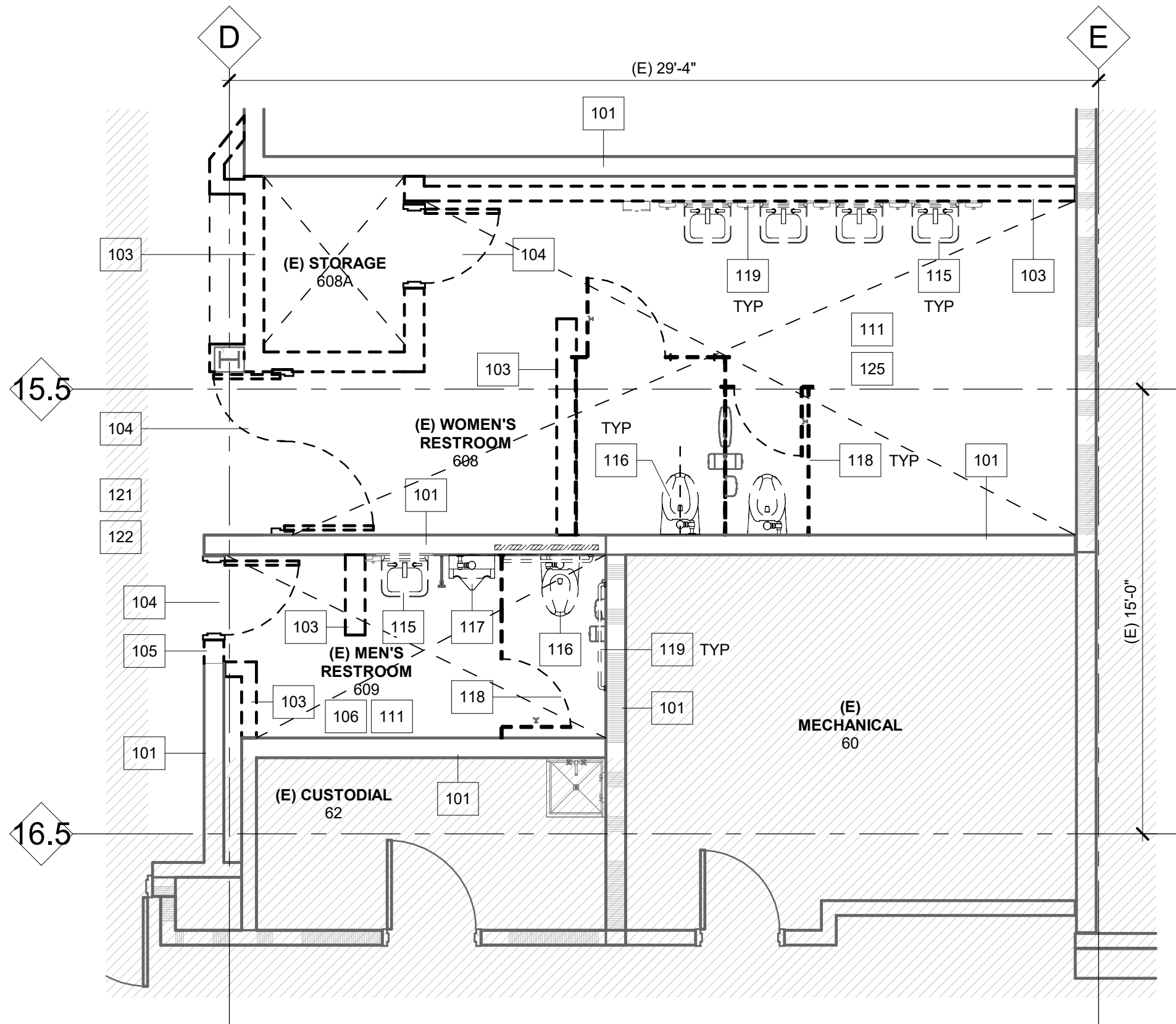
REMOVE EXISTING CERAMIC WALL AND FLOOR TILE. CLEAN SURFACES TO PREPARE ADEQUATE SUBSTRATE FOR NEW TILE FINISHES. DO NOT CHIP OR DAMAGE EXISTING STRUCTURAL SLAB.



P2. EXISTING RAISED MOP SINK TO BE REMOVED

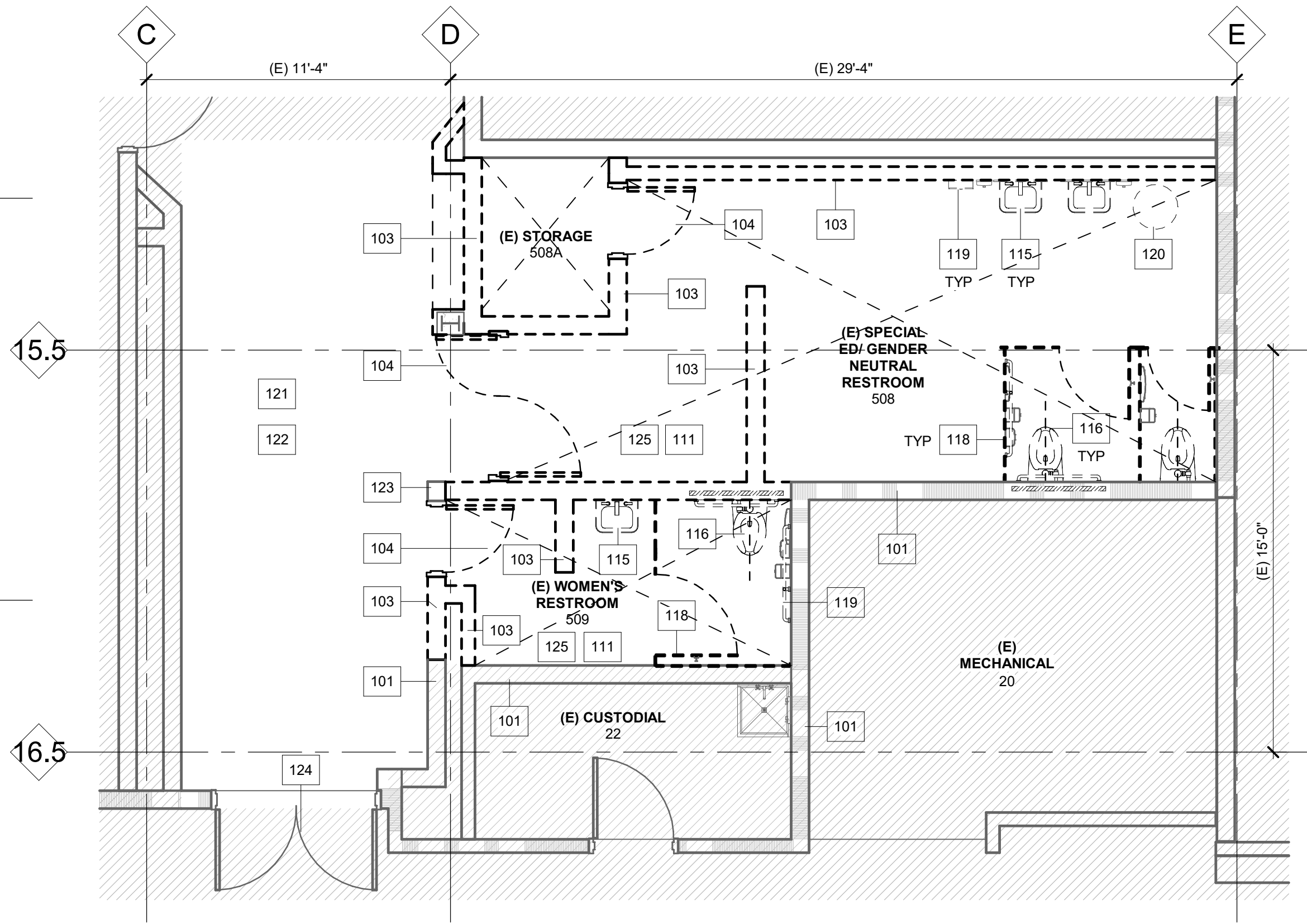
DEMOLISH RAISED CURB AND MOP SINK THAT HAS BEEN ADDED ABOVE STRUCTURAL SLAB. DEMOLITION LIMITED TO ADDED MOP SINK ONLY. DO NOT CHIP OR DAMAGE STRUCTURAL SLAB BELOW.

DEMOLITION KEYNOTE LEGEND	
Key Value	Keynote Text
101	(E) WALL TO REMAIN
102	(E) DOOR TO REMAIN
103	DEMOLISH WALL AS SHOWN
104	REMOVE DOOR AND FRAME
105	DEMOLISH PORTION OF WALL FOR (N) DOOR OPENING, SEE DETAIL 9/A-585
106	REMOVE ALL FLOORING AND WALL BASE. CLEAN AND PREPARE CONCRETE SLAB TO RECEIVE NEW FINISH.
107	DEMOLISH RAISED CONCRETE MOP SINK AND CURB. DO NOT CHIP, CUT OR DAMAGE STRUCTURAL SLAB BELOW. DEMOLITION LIMITED TO PORTION OF MOP SINK THAT WAS ADDED ON TOP OF STRUCTURAL SLAB. CAP EXISTING DRAINAGE. CLEAN CONCRETE SLAB AS REQUIRED TO PREPARE APPROPRIATE SUBSTRATE FOR NEW FLOOR FINISH. SEE DEMO PHOTO REFERENCE NOTE P2.
108	REMOVE EXISTING BUILT-IN STORAGE
109	(E) MECH UNIT TO REMAIN
110	REMOVE AND PROTECT IDF RACK IN PREPARATION FOR RELOCATION. COORDINATE WITH DISTRICT IT. S.E.D.
111	REMOVE ALL EXISTING CEILINGS, SUPPORTS & LIGHTS ABOVE. SEE DEMOLITION LEGEND FOR ADDITIONAL NOTES.
112	REMOVE AND PROTECT ANY EXISTING MAINTENANCE EQUIPMENT, FURNISHING OR SIGNAGE. STORE AND DELIVER TO DISTRICT.
113	REMOVE WALL FINISHES INCLUDING FRP PANELS AS REQUIRED. EXISTING GYP BOARD TO REMAIN IN PLACE. REPAIR ANY DAMAGED GYP BOARD AS REQUIRED TO MATCH ADJ.
114	(E) WINDOW TO REMAIN
115	REMOVE SINK AS SHOWN, S.P.D.
116	REMOVE TOILET AS SHOWN, S.P.D.
117	REMOVE URINAL AS SHOWN, S.P.D.
118	REMOVE TOILET PARTITIONS
119	REMOVE ALL TOILET ACCESSORIES INCLUDING GRAB BARS, DISPENSERS, MIRRORS, RECEPTACLES, ETC.
120	REMOVE SMALL WATER HEATER, S.P.D.
121	(E) FLOORING TO REMAIN. PROTECT IN PLACE.
122	(E) CEILING TO REMAIN. PROTECT IN PLACE.
123	(E) WALL TO REMAIN. SEE DETAIL 10/A-585
124	(E) 30MINS RATED DOOR TO REMAIN
125	REMOVE ALL CERAMIC FLOOR AND WALL TILE. CLEAN AND PREPARE CONCRETE SLAB TO RECEIVE NEW FINISH. DO NOT CHIP OR DAMAGE EXISTING CONCRETE SLAB BELOW. SEE DEMO PHOTO REFERENCE NOTE P1.



2 DEMOLITION PLAN - BLDG C LEVEL 2 - RESTROOMS

1/4" = 1'-0"



1 DEMOLITION PLAN - BLDG C LEVEL 1 - RESTROOMS

1/4" = 1'-0"

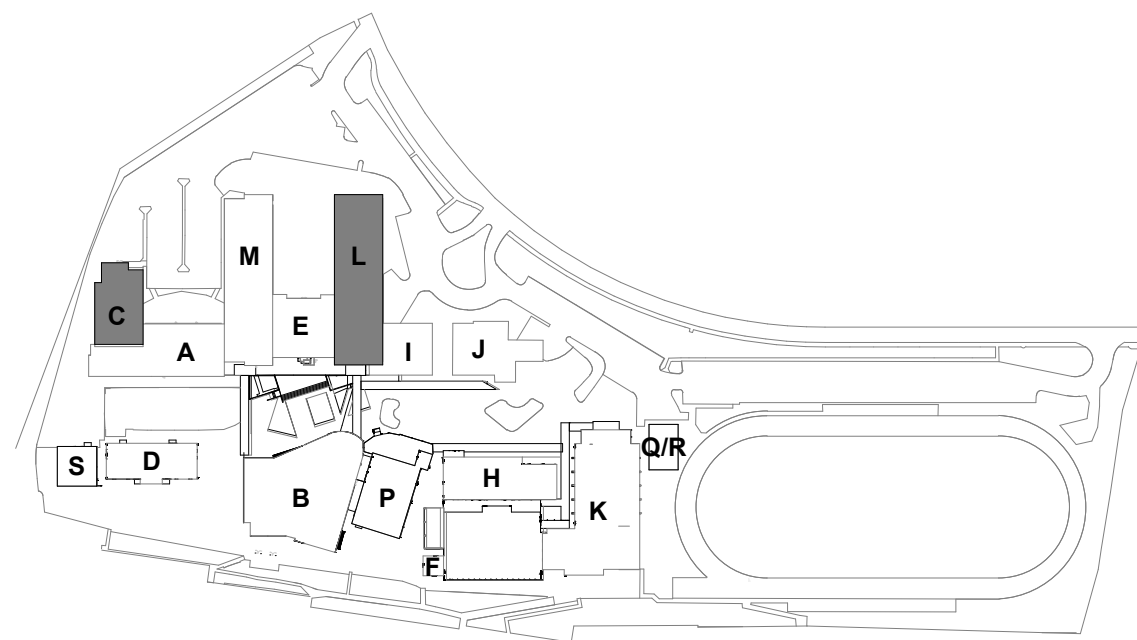
DEMOLITION PLAN NOTES

- THE ARCHITECT HAS NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL, OR DISPOSAL OF, OR EXPOSURE OF PERSONS TO, HAZARDOUS MATERIALS OR TOXIC SUBSTANCES IN ANY FORM AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO, ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB), LEAD PAINT OR OTHER TOXIC SUBSTANCES. THE FACT THAT THESE DOCUMENTS DO NOT INDICATE THE PRESENCE OF OR REMOVAL OR CONTAINMENT OF THE FOREGOING IS NOT INTENDED TO INDICATE THAT THESE MATERIALS OR SUBSTANCES, AMONG OTHERS, ARE NOT PRESENT AND ARE NOT REQUIRED TO BE REMOVED OR CONTAINED IN COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.
- PORTIONS OF THE BUILDING IMMEDIATELY ADJACENT TO THE PROJECT AREA WILL BE OCCUPIED DURING SELECTIVE DEMOLITION. WORK SHALL NOT DISTURB NORMAL OPERATIONS ADJACENT TO AREAS IDENTIFIED FOR SELECTIVE DEMOLITION WITHOUT THE EXPRESS CONSENT OF PARTIES AFFECTED. DISTURBANCE MAY INCLUDE, WITHOUT LIMITATION, DUST, DIRT, DEBRIS, NOISE, ODORS, ETC.
- CONDUCT WORK IN MANNER THAT WILL MINIMIZE NEED FOR DISRUPTION OF NORMAL OPERATIONS. PROVIDE MINIMUM 72 HOURS ADVANCE NOTICE OF DEMOLITION ACTIVITIES DISRUPTING OPERATIONS IN AREAS AROUND THE WORK, INCLUDING ON LEVELS ABOVE OR BELOW AS APPLICABLE.
- PROVIDE TEMPORARY BARRICADES AND OTHER FORMS OF PROTECTION TO PROTECT STAFF PERSONNEL AND GENERAL PUBLIC FROM INJURY DURING SELECTIVE DEMOLITION WORK.
- CONTRACTOR SHALL VERIFY EXISTING BUILDING DIMENSIONS, PARTITION AND WALL LOCATIONS AND FLOOR ELEVATIONS IN FIELD AND NOTIFY THE ARCHITECT OF DISCREPANCIES PRIOR TO START OF WORK.
- CONTRACTOR TO DOCUMENT EXISTING CONDITIONS PRIOR TO START OF WORK USING PHOTOGRAPHS, VIDEOS, OR OTHER MEANS WHICH CAN BE READILY SHARED. SUCH DOCUMENTATION WILL BE MADE AVAILABLE TO ARCHITECT AS REQUIRED BELOW.
- PROTECT FROM DAMAGE EXISTING FINISH WORK THAT IS TO REMAIN IN PLACE AND IS EXPOSED DURING DEMOLITION OPERATIONS. RESTORE ANY DAMAGED FINISHES TO CONDITION PRIOR TO START OF WORK.
- PROTECT FLOORS WITH SUITABLE COVERING WHEN NECESSARY.
- COVER AND PROTECT FURNITURE, EQUIPMENT, AND FIXTURES FROM SOILING OR DAMAGE WHEN DEMOLITION WORK IS PERFORMED IN AREAS WHERE SUCH ITEMS HAVE NOT BEEN REMOVED. RESTORE ANY SUCH ELEMENTS THAT ARE DAMAGED TO CONDITION PRIOR TO DEMOLITION WORK.
- PRIOR TO CUTTING EXISTING CONSTRUCTION, LOCATE AND VISIBLY MARK SERVICES TO REMAIN IN OPERATION, INCLUDING FLOOR PENETRATIONS, UNDOCUMENTED CONDITIONS, UTILITY RISERS, ETC., AND WALLS THAT CONTAIN VERTICAL RISERS THAT REMAIN IN OPERATION DURING THE DEMOLITION WORK.
- IF UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH INTENDED FUNCTION OF DESIGN ARE ENCOUNTERED, INVESTIGATE, MEASURE AND DOCUMENT NATURE AND EXTENT OF CONFLICT AND NOTIFY ARCHITECT BEFORE PROCEEDING.
- MAINTAIN EXISTING UTILITIES INDICATED TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING DEMOLITION OPERATIONS. DO NOT INTERRUPT UTILITIES SERVING FUNCTIONING FACILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES ACCEPTABLE TO GOVERNING AUTHORITIES DURING INTERRUPTIONS TO EXISTING UTILITIES.
- WHERE DEMOLITION IS REQUIRED BEYOND THE LIMITS OF THE CONTRACT TO ROUTE NEW DUCTWORK, PIPING, CONDUITS ETC., CONSULT THE ARCHITECT FOR FURTHER DIRECTION. DSA APPROVAL OF A CONSTRUCTION CHANGE DOCUMENT IS REQUIRED FOR DEMOLITION NOT SHOWN ON THESE DRAWINGS. ALL FINISHES DAMAGED BY THE WORK SHALL BE RESTORED TO THEIR CONDITION PRIOR TO START OF WORK.
- REPAIR DEMOLITION IN EXCESS OF THAT REQUIRED. RETURN ELEMENTS OF CONSTRUCTION AND SURFACES TO REMAIN TO CONDITION PRIOR TO START OF OPERATIONS. REPAIR ADJACENT CONSTRUCTION OR SURFACES SOILED OR DAMAGED BY SELECTIVE DEMOLITION.
- PROVIDE SHORING, BRACING OR OTHER MEANS REQUIRED TO PROTECT AND MAINTAIN THE SAFETY, INTEGRITY AND STABILITY OF EXISTING AND NEW CONSTRUCTION. WHEN REQUIRED, DESIGN OF THESE MEANS AND METHODS SHALL BE BY A LICENSED PROFESSIONAL ACCEPTABLE TO THE ARCHITECT OF RECORD.
- IF ROOFING, GLAZING, FLASHING, COPING OR PORTIONS OF EXTERIOR WALLS ARE REMOVED OR OPENED, SUITABLE THERMAL AND/OR MOISTURE OR VAPOR PROTECTION SHALL BE PROVIDED AND MAINTAINED FOR THE DURATION SUCH ELEMENTS OR PORTIONS OF THE BUILDING ARE OPEN TO WEATHER.
- ERECT AND MAINTAIN 1 HOUR FIRE RESISTANCE RATED TEMPORARY PARTITIONS WHERE REQUIRED OR AS DIRECTED BY THE AHJ TO PROTECT EXISTING CONSTRUCTION AND ADJACENT OPERATIONS.
- REMOVAL OF ITEMS NOTED INCLUDES REMOVAL OF ASSOCIATED ANCHORS, ADHESIVES, HARDWARE, CONDUIT, WIRE, PIPING, FASTENERS, BRACKETS, SUPPORTS, ETC. TO BARE EXISTING STRUCTURE.
- NEW CEILING INSTALLATIONS ARE NOT TO REUSE COMPONENTS OF OLD OR REMOVED CEILING SYSTEMS. WHERE EXISTING CEILINGS ARE INDICATED TO BE DEMOLISHED, COMPLETELY REMOVE EXISTING CEILING AND SUSPENSION SYSTEM COMPONENTS, INCLUDING BRACKETS, SUPPORT WIRES, SPLAY WIRES, COMPRESSION STRUTS, AND ATTACHMENTS TO STRUCTURE.
- SCOPE OF DEMOLITION WORK REQUIRED IS NOT NECESSARILY LIMITED TO WHAT IS SHOWN ON THE DEMOLITION PLANS. THE INTENT IS TO REMOVE ALL MECHANICAL, ELECTRICAL, AND ARCHITECTURAL ITEMS AS REQUIRED TO FACILITATE NEW CONSTRUCTION. SEE MECHANICAL AND ELECTRICAL DEMOLITION DRAWINGS FOR ADDITIONAL SCOPE OF DEMOLITION WORK.
- REFER TO FINISH PLANS/SCHEDULES FOR SELECTIVE DEMOLITION OF EXISTING FINISHES THAT MAY BE REQUIRED IN AREAS NOT INDICATED ON THESE DRAWINGS.
- REMOVE WALL COVERING AND BASE AT EXISTING WALLS SCHEDULED TO RECEIVE NEW FINISHES. PREP WALL TO RECEIVE SCHEDULED FINISH. REFER TO FINISH PLANS/SCHEDULES FOR EXTENT OF DEMOLITION.
- REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- EXISTING STRUCTURAL SLAB NOT DEPRESSED. PROTECT EXISTING STRUCTURAL SLAB WHEN REMOVING ANY AND ALL FLOOR FINISHES. NO DAMAGE TO OR REMOVAL OF CONCRETE TO OCCUR THAT IS NOT DESCRIBED IN DSA APPROVED DOCUMENTS.

DEMOLITION LEGEND

- EXISTING TO BE REMOVED
- EXISTING TO REMAIN
- NOT IN SCOPE: NO WORK
- COMPLETELY REMOVE ALL EXISTING CEILINGS UON (EITHER LAY-IN, PLASTER, OR GYP BD INCLUDING ALL CURTAIN, CEILING MOUNTED EQUIPMENT, SUPPORTS, TRACKS ETC)
- COMPLETELY REMOVE ALL EXISTING FLOOR FINISHES (AT ROOMS AND/OR AREAS TO REMAIN AND RECEIVE NEW FLOOR FINISHES, LEAVE SUB-FLOOR CLEAN AND PREPARED FOR NEW WORK.

KEY PLAN



San Rafael City Schools



310 Nova Albion Way, San Rafael, CA 94903

SRCS Wellness & Restroom Modernization

320 Nova Albion Way, San Rafael, CA 94903

Date Issued For
03/08/2024 DSA Resubmittal

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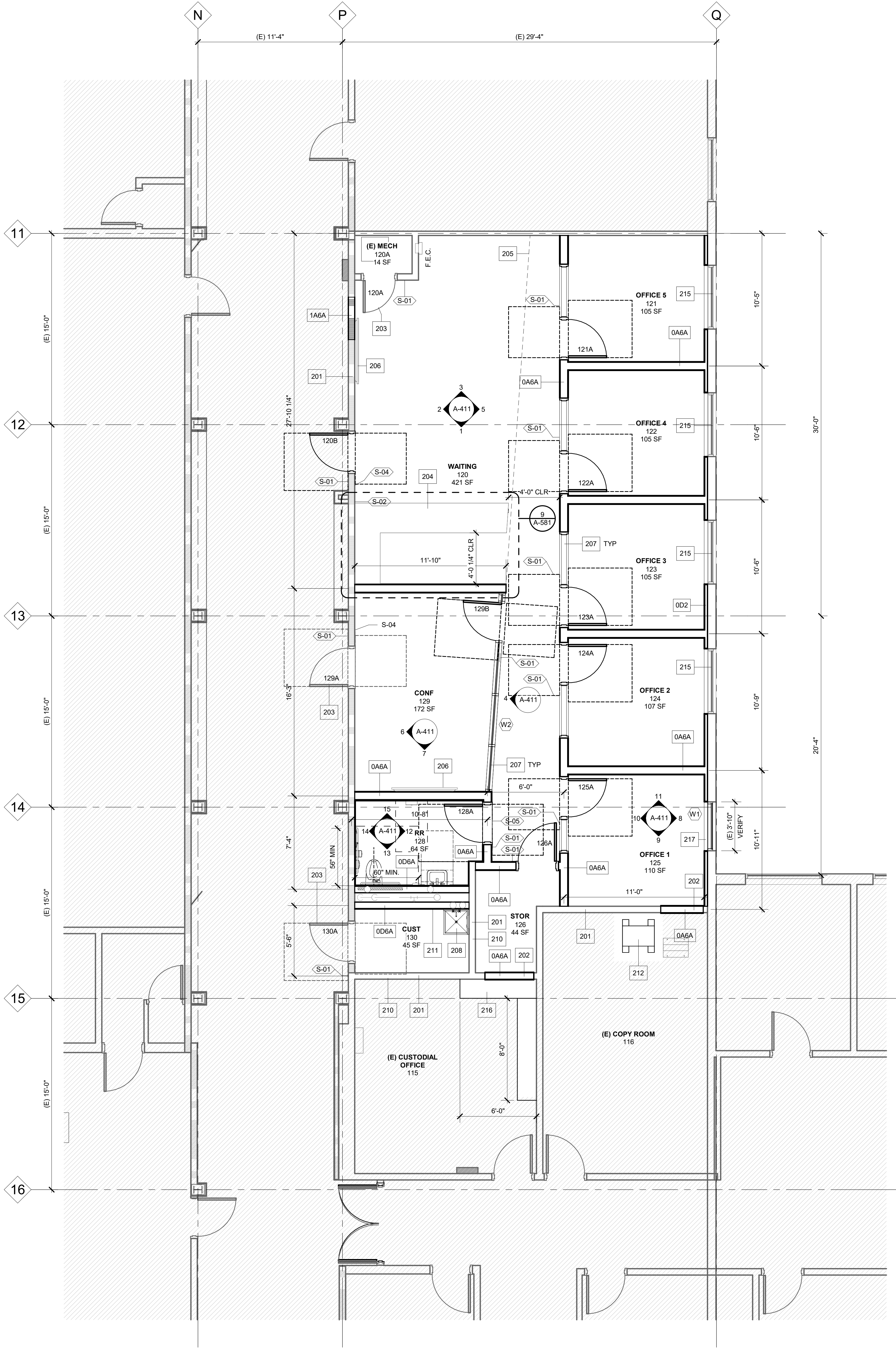
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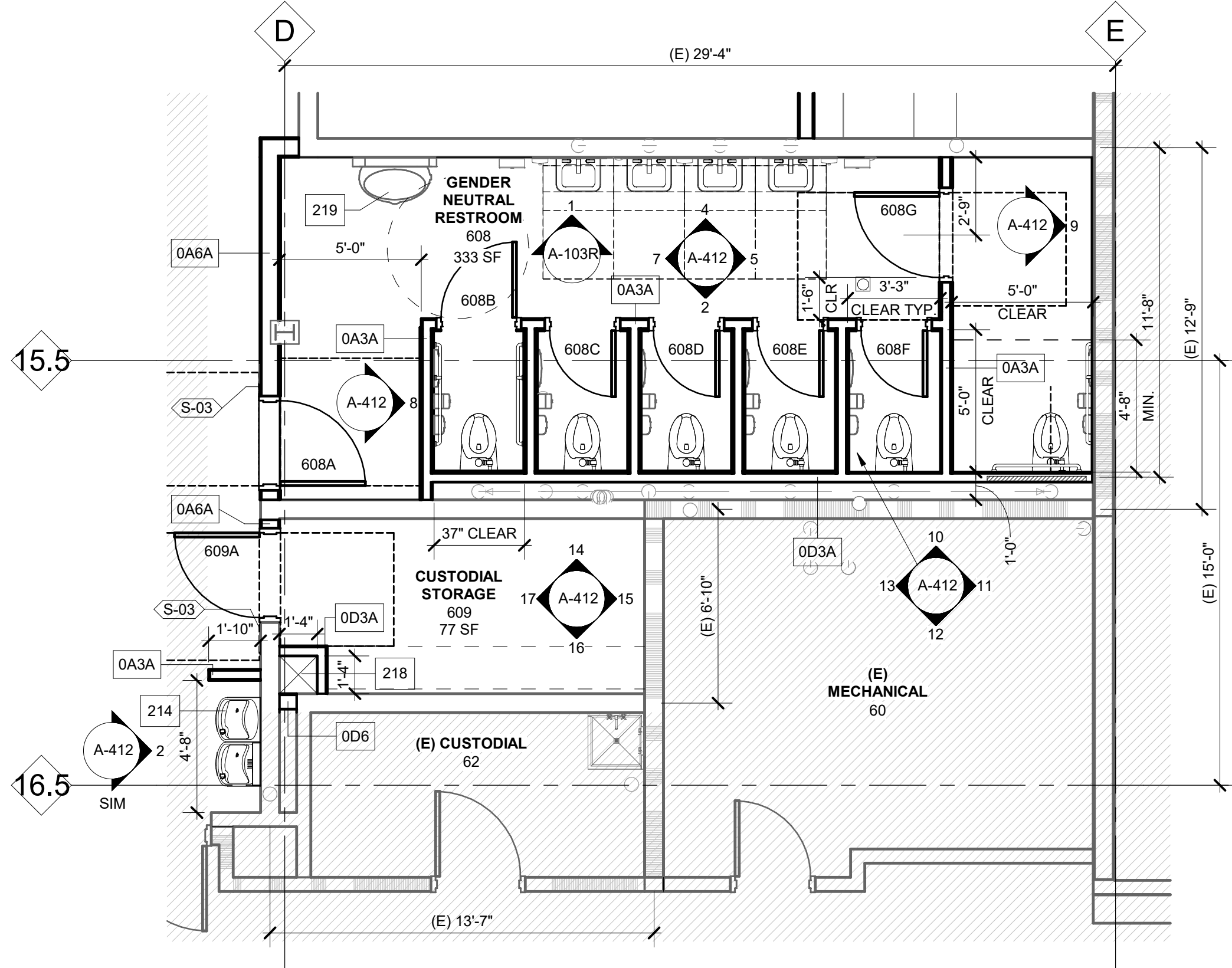
Demolition Plans

AD101

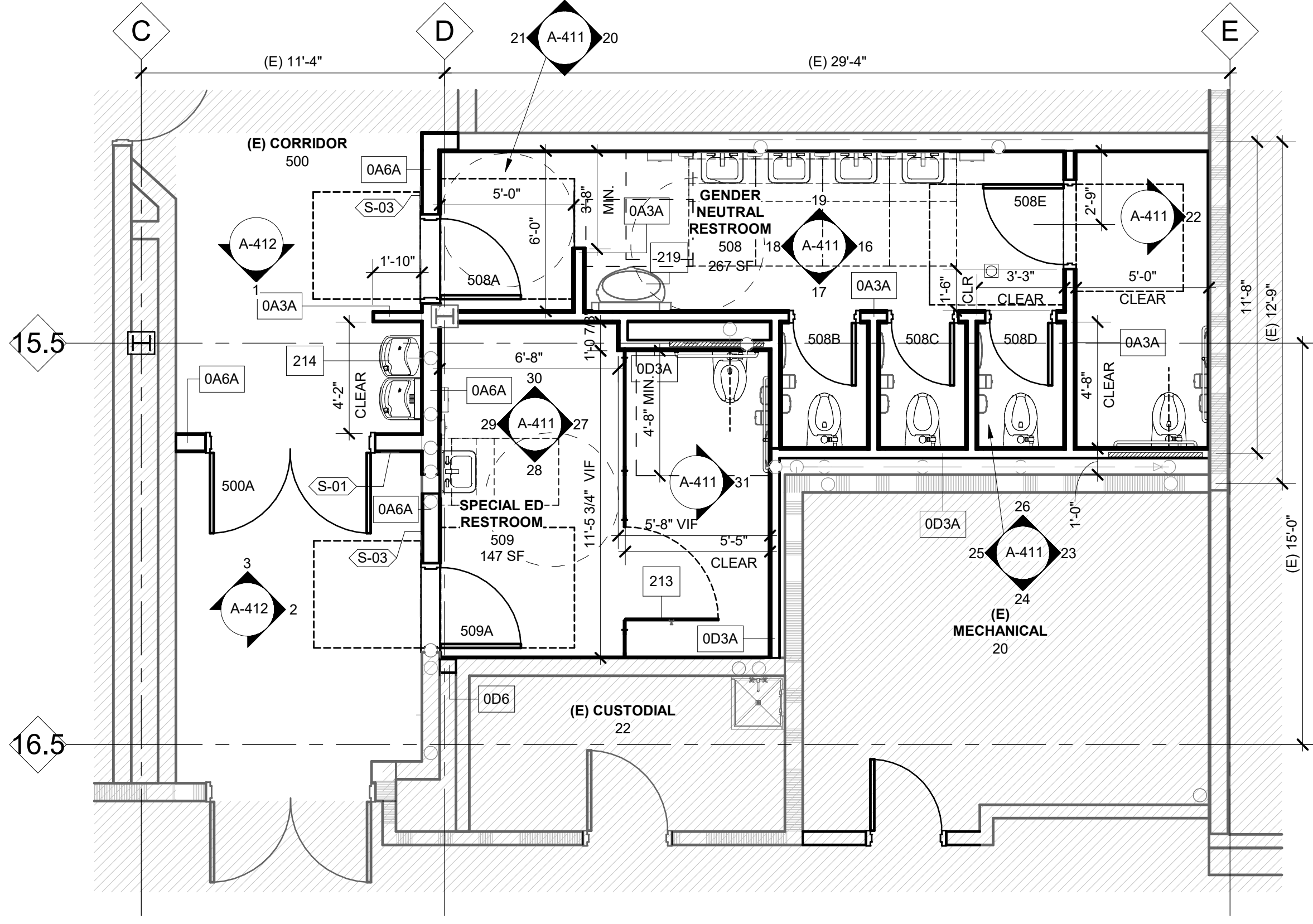


3 FLOOR PLAN - BLDG L LEVEL 01 - WELLNESS
1/4" = 1'-0"

FLOOR PLAN KEYNOTE LEGEND	
Key Value	Keynote Text
201	(E) WALL
202	INFILL DOOR OPENING. MATCH ADJACENT WALL STUD SIZE AND FINISH. SEE DETAIL 9/A-585.
203	(E) DOOR
204	RECEPTION DESK. SEE MILLWORK DETAILS ON SHEET A-581
205	LINE OF SOFFIT ABOVE. SEE REFLECTED CEILING PLAN A-121
206	WALL MOUNTED DISPLAY OFCI. PROVIDE BLOCKING TYPE C PER 18/A-572
207	PROVIDE TRANSLUCENT FILM AT ALL INTERIOR GLAZING. TYP.
208	MOP SINK. S.P.D.
210	INFILL GAP ABOVE (E) WALL WITH MTL STD FRAMING. MTL STUD SIZE TO MATCH (E). SEE DETAIL 11/A-585
211	FRP WALL PANELS INSTALLED ON ALL FOUR WALLS 5'-0" HIGH, SEE 7/A-585
212	RELOCATED IDF RACK. S.E.D.
213	TOILET PARTITIONS. SEE SHEET G-005 FOR DETAILS
214	DRINKING FOUNTAIN. SEE DETAIL 9/G-003 & 1/P-002
215	(E) WINDOW
216	PREMANUFACTURED SHELVING
217	INFILL OPENING WITH NEW FRAMING TO RECEIVE WINDOW, SEE 5/A-585. PROVIDE EXTERIOR SHEATHING, WEATHER BARRIER AND PATCH EXTERIOR PLASTER TO MATCH EXISTING ADJACENT. SEE SHEET A-512 FOR CEMENT PLASTER DETAILS.
218	MECHANICAL CHASE, S.M.D.
219	WALL MOUNTED BABY CHANGING TABLE. PROVIDE BACKING TYPE C AS REQUIRED PER 18/A-572



2 FLOOR PLAN - BLDG C LEVEL 2 - RESTROOMS
1/4" = 1'-0"



1 FLOOR PLAN - BLDG C LEVEL 1 - RESTROOMS
1/4" = 1'-0"

FLOOR PLAN NOTES

- CONTRACTOR TO COORDINATE AND PROVIDE BACKING FOR ALL ITEMS IN CONTRACT, AS WELL AS ITEMS NOTED WHICH ARE IDENTIFIED AS NOT IN CONTRACT (NIC) OR ITEMS WHICH ARE OWNER-PROVIDED OR VENDOR-PROVIDED. SUCH ITEMS MAY INCLUDE, BUT ARE NOT LIMITED TO, SIGNAGE, CONFERRING TRAYS, RAILS OR OTHER ACCESSORIES, DISPLAY CASES, COMPUTER OR TELEVISION DISPLAYS, MONITORS, WIRELESS ACCESS POINTS, AND OTHER CASEWORK OR EQUIPMENT.
- DO NOT SCALE DRAWINGS. USE DIMENSIONS INDICATED.
- CONTRACTOR SHALL VERIFY BUILDING DIMENSIONS, PARTITION AND WALL LOCATIONS, AND FLOOR ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO START OF WORK.
- ALL EXISTING CONSTRUCTION REMAINING BUT AFFECTED BY THE WORK UNDER THIS CONTRACT SHALL BE RESTORED AND REFINISHED TO MATCH THE MATERIALS, FINISH AND ALIGNMENT OF THE EXISTING ADJACENT CONSTRUCTION.
- COORDINATE QUANTITY, SIZE AND LOCATION OF ALL FLOOR, ROOF AND WALL OPENINGS FOR MECHANICAL AND ELECTRICAL WORK FOR A COMPLETE INSTALLATION. PROVIDE OPENINGS SHOWN FOR COMPLETION OF WORK.
- COORDINATE SIZE AND LOCATION OF ALL ACCESS PANELS WITH APPROPRIATE TRADES.
- ALL DIMENSIONS ARE TO FACE OF GYPSUM BOARD, NOMINAL FINISH FACE OF CONCRETE, OR NOMINAL FACE OF MASONRY UNLESS OTHERWISE NOTED.
- DIMENSIONS IN ROOMS WITH WALL TILE ARE TO FACE OF TILE SURFACE TYPICAL, UNLESS OTHERWISE NOTED. WITH THICKNESS OF TILE AND SETTING BED BEING IDENTIFIED NORMALLY AS 1/2". IF TILE AND SETTING BED IS THICKER THAN 1/2", PARTITION LAYOUT TO BE ADJUSTED ACCORDINGLY.
- WHERE FIRE RATED PARTITIONS TERMINATE AT EXTERIOR WALLS, PROVIDE FIRE SAFING (UL LISTED) INSULATION FROM END OF PARTITION TO INTERIOR FACE OF EXTERIOR SHEATHING, 5" DEPTH X FULL HEIGHT OF CONSTRUCTION (TYPICAL).
- WHERE SOUND INSULATED PARTITIONS TERMINATE AT EXTERIOR WALL ASSEMBLIES, EXTEND GYPSUM BOARD, ISOLATION CHANNELS, AND SOUND ATTENUATING INSULATION AS SCHEDULED, TO INSIDE FACE OF EXTERIOR SHEATHING, AND SEAL JOINT AT SHEATHING WITH ACOUSTICAL SEALANT.
- FOR ADDITIONAL INTERIOR FINISHES WHICH MAY IMPACT DIMENSIONS, REFER TO FINISH PLANS/SCHEDULES.
- WHERE INTERIOR PARTITIONS ABUT WINDOW SYSTEMS, ALIGN CENTERLINES OF PARTITIONS WITH CENTERLINES OF VERTICAL WINDOW MULLIONS, UNLESS OTHERWISE NOTED.
- PROVIDE CONTINUOUS FIRE RATED CONSTRUCTION BEHIND RECESSED FIXTURES IN FIRE PARTITIONS, FIRE BARRIERS AND FIRE WALLS.
- PROVIDE FIREPROOFING CONTINUITY WITH EXISTING CONDITIONS, USING LIKE SYSTEMS AS EXISTING, WHERE REQUIRED. VERIFY CONSTRUCTION OF EXISTING ELEMENTS IDENTIFIED AS FIRE RATED AND REPORT CONDITIONS NEGATIVELY IMPACTING RATING OF ELEMENT TO ARCHITECT.
- PATCH AND REPAIR EXISTING PARTITIONS AT REMOVED RECESSED ITEMS AND AT NEW DOOR OPENINGS. CUT BACK EXISTING GYPSUM BOARD TO NEXT STUD JOINT BETWEEN NEW AND EXISTING GYPSUM BOARD SHALL BE SECURED TO A COMMON OR SISTERED STUD.
- PATCH AND REPAIR EXISTING CONCRETE SLAB AND/OR DECK AT REMOVED FLOOR DRAINS, WATER CLOSETS, DUCT PENETRATIONS AND OTHER REMOVED UTILITIES. PROVIDE CONCRETE IN THICKNESS REQUIRED TO MAINTAIN FIRE RATING OF FLOOR SLAB. REFER TO STRUCTURAL DRAWINGS FOR REQUIRED REINFORCEMENT OR ANCHORING. REPAIR OR INSTALL FIREPROOFING UNDER SLAB AS REQUIRED TO MATCH EXISTING CONSTRUCTION OR AS REQUIRED BY THESE DRAWINGS.
- LEVEL AND SCARIFY EXISTING SLABS TO PROVIDE ACCEPTABLE SUBSTRATE FOR SCHEDULED FLOORING. REFER TO FINISH PLANS/SCHEDULES AND SPECIFICATIONS FOR PREPARATION OF FLOORS TO RECEIVE NEW FINISHES.

FLOOR PLAN LEGEND

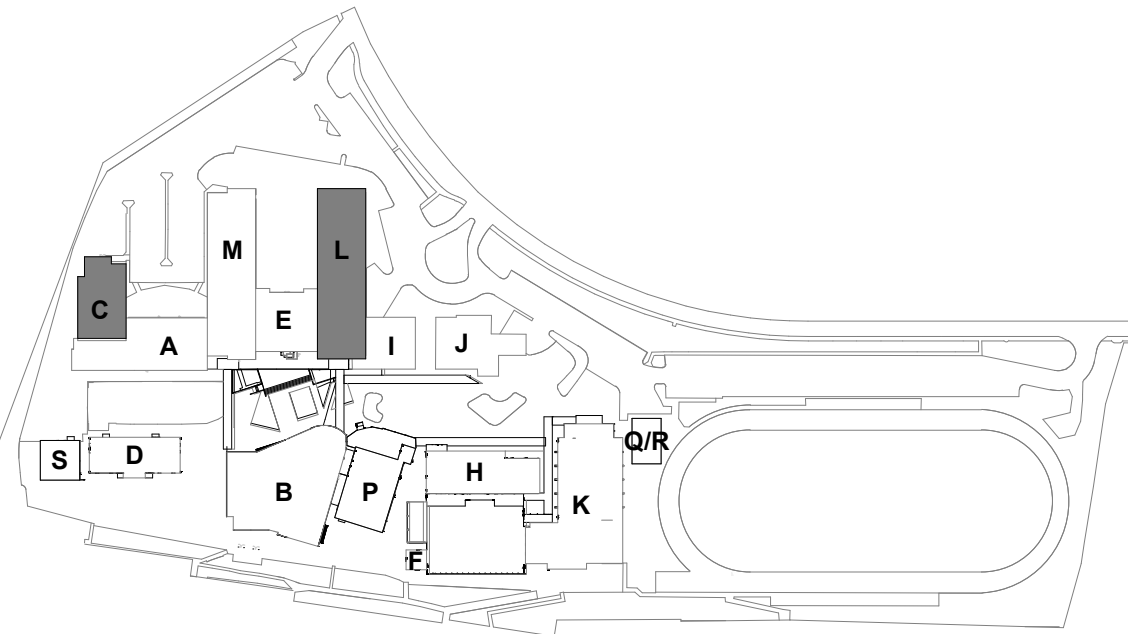
- DOOR MARK
- NEW DOOR
- 5" TO DOOR OPENING - TYP (UON)
- PARTITION TYPE (SEE PARTITION TYPES SHEET A-571 AND EXTERIOR CEMENT PLASTER WALL SHEET A-512)
- EXISTING 1 HR RATED WALL
- EXISTING 2 HR RATED WALL
- WINDOW TYPE (SEE WINDOW TYPES SHEET A-571)
- ROOM NAME
- ROOM NAME & NUMBER
- FLOOR DRAIN (FD)
- FIRE EXTINGUISHER CABINET
- NOT IN SCOPE. NO WORK

SIGNAGE KENOTES

- S-01 ROOM IDENTIFICATION SIGN - 5/G-004
- S-02 ASSISTIVE LISTENING SIGN - 7/G-004
- S-03 ACCESSIBLE TOILET ROOM SIGN - 3.4 86/G-004
- S-04 EXIT SIGN 2/G-004
- S-05 TOILET ROOM IDENTIFICATION SIGN & DOOR SYMBOLS - 9/G-004

NOTE: SEE G-002 FOR TYP SIGNAGE MOUNTING HEIGHT
SEE G-005 FOR ACCESSIBLE TOILET FIXTURE MOUNTING HEIGHTS

KEY PLAN



San Rafael City Schools



310 Nova Albion Way, San Rafael, CA 94903

SRCS Wellness & Restroom Modernization

320 Nova Albion Way, San Rafael, CA 94903

Date Issued For
03/08/2024 DSA Resubmittal

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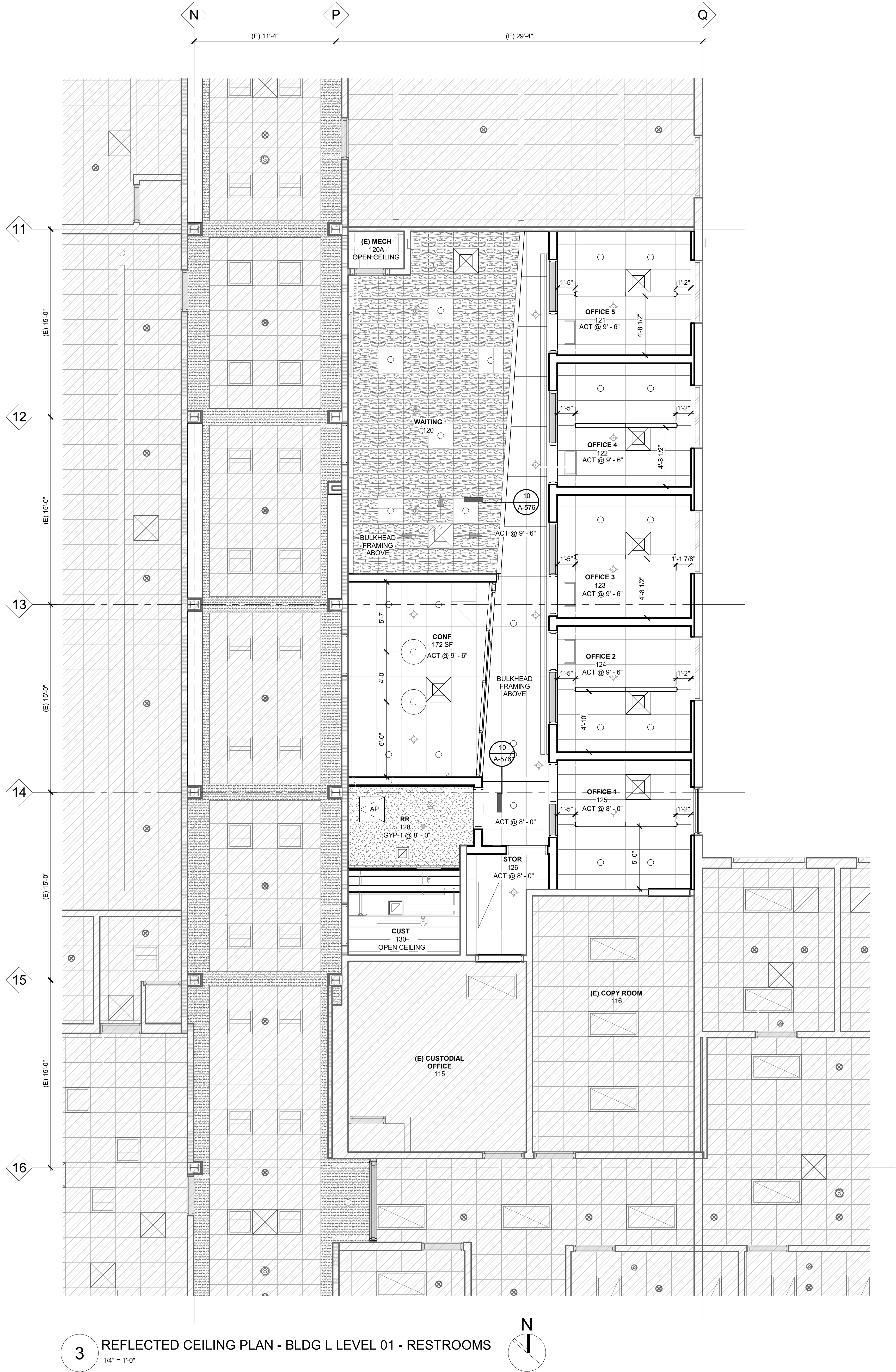
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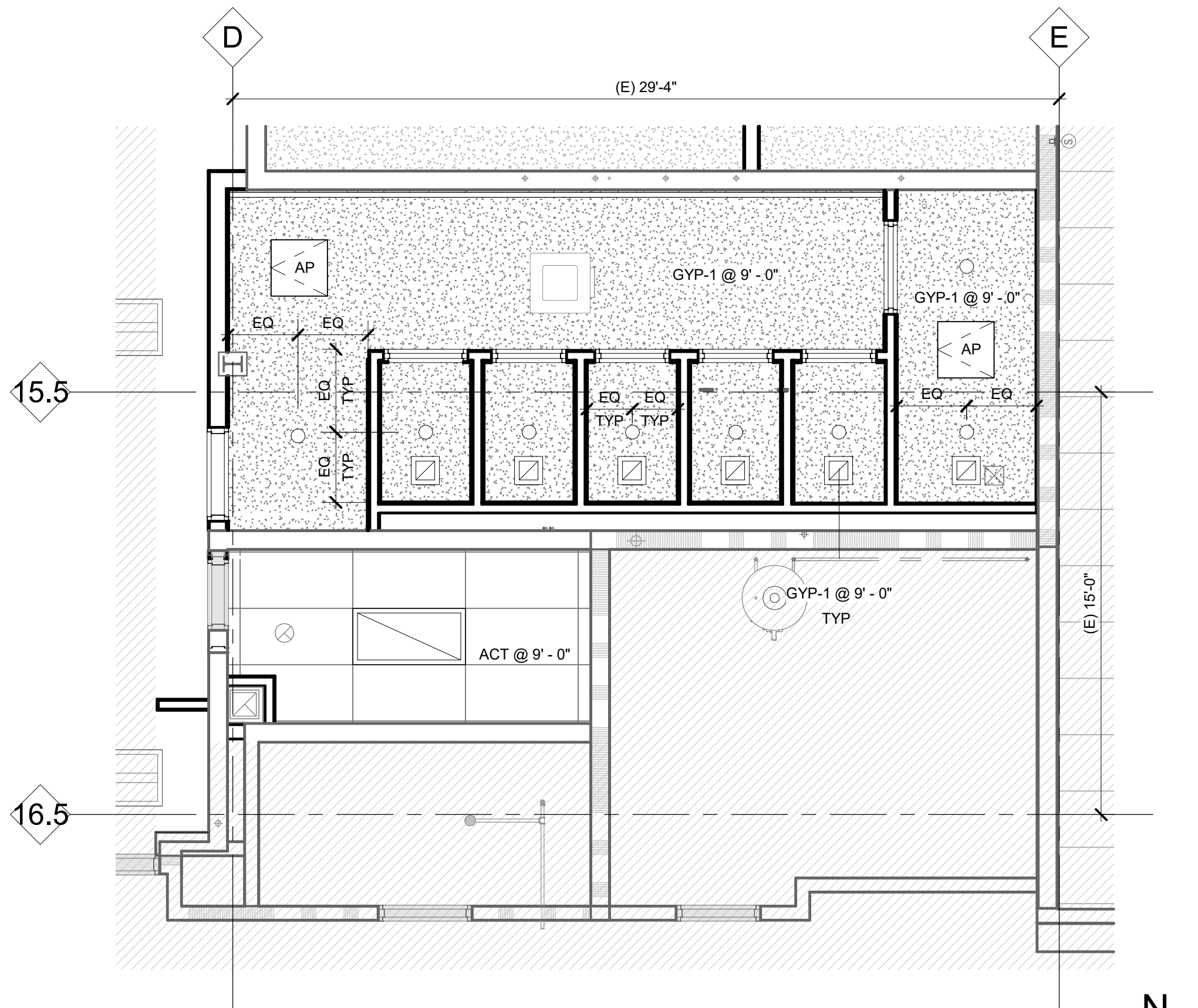
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Floor Plans

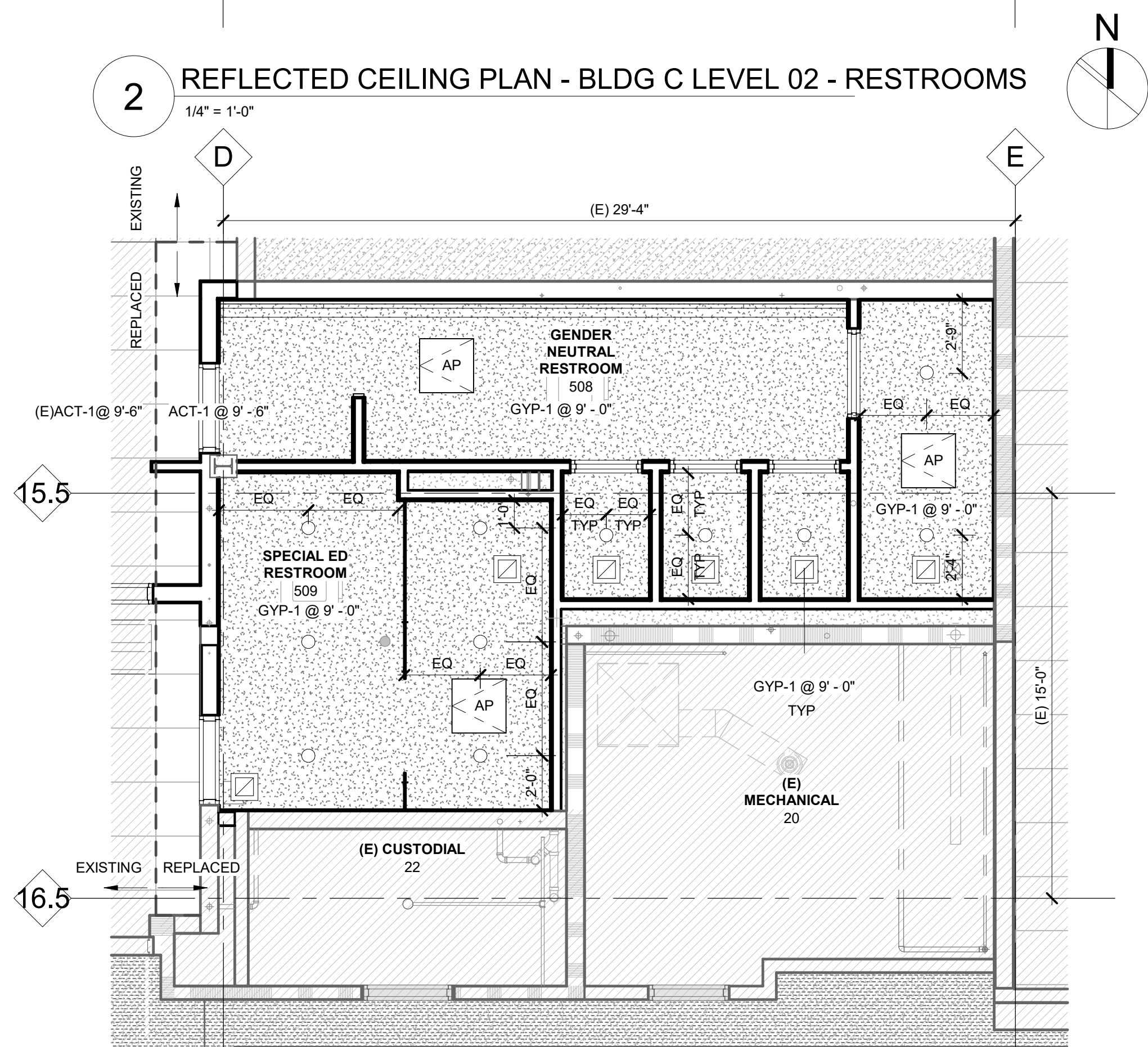
A-101



3 REFLECTED CEILING PLAN - BLDG L LEVEL 01 - RESTROOMS
1/4" = 1'-0"



2 REFLECTED CEILING PLAN - BLDG C LEVEL 02 - RESTROOMS
1/4" = 1'-0"



1 REFLECTED CEILING PLAN - BLDG C LEVEL 01 - RESTROOMS
1/4" = 1'-0"

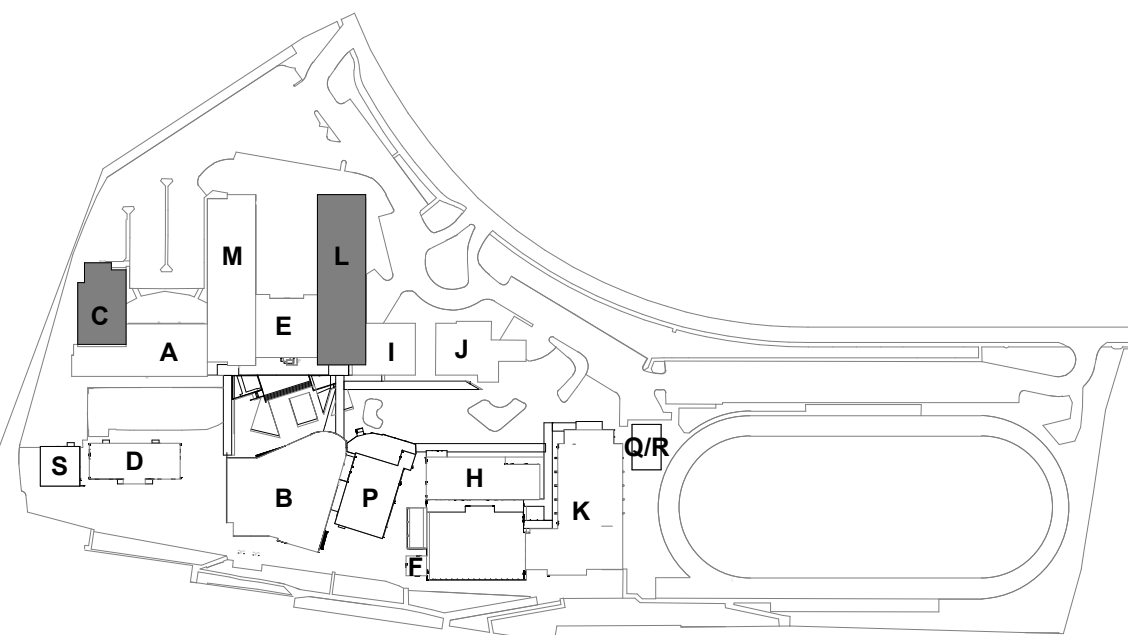
CEILING NOTES

- COORDINATE SIZE AND LOCATION OF ACCESS PANELS WITH TRADE REQUIRING SAME AND CONFIRM WITH ARCHITECT.
- COORDINATE CEILING SUSPENSION SYSTEMS WITH OTHER CEILING SPACE EQUIPMENT SUPPORTING DEVICES.
- CONTRACTOR SHALL MAINTAIN THE FIRE RATING INTEGRITY OF EXISTING PARTITIONS INDICATED AS FIRE RESISTANCE RATED. REPORT CONDITIONS NEGATIVELY IMPACTING RATING OF ELEMENT TO ARCHITECT.
- CEILING PANELS TO BE CENTERED IN ROOM IN BOTH DIRECTIONS UNLESS OTHERWISE INDICATED.
- NO CEILING PANEL TO BE CUT TO LESS THAN 6" WIDTH.
- SPRINKLER HEADS TO BE LOCATED IN THE CENTER OF CEILING PANELS (TYPICAL).
- VERIFY LOCATIONS OF SOFFIT AND CEILING CONTROL JOINTS WITH THE ARCHITECT PRIOR TO INSTALLATION.
- COORDINATE ESCUTCHEON PLATES AT CEILING PANEL PENETRATIONS WITH ELECTRICAL AND MECHANICAL TRADES.
- REFER TO ELECTRICAL DRAWINGS FOR FIXTURE TYPES.
- FOR NEW MECHANICAL ROOF OPENINGS SEE 6 & 7/A-512 AND S.M.D.

CEILING PLAN LEGEND

- 24" X 48" ACOUSTIC PANEL CEILING ON METAL CEILING SUSPENSION SYSTEM.
- 5/8" GYPSUM BOARD CEILING ON METAL CEILING SUSPENSION SYSTEM/ METAL STUD FRAMING.
- REPLACED 24" X 24" ACOUSTIC PANEL CEILING ON METAL CEILING SUSPENSION SYSTEM.
- REPLACED CEILING TILE LINE. SEE DETAIL 13/A-576
- ACP-1 @ 8'-0"
- CEILING TYPE & HEIGHT TAG
- RECESSED DOWN LIGHTS (REFER ELEC. DWGS)
- DECORATIVE ACOUSTIC PENDANT LIGHTS (REFER ELEC. DWGS)
- LIGHT FIXTURE (REFER ELEC. DWGS)
- SUPPLY AIR DIFFUSER (REFER MECH. DWGS)
- RETURN AIR DIFFUSER (REFER MECH. DWGS)
- 1'-6" X 1'-6" FRAMELESS ACCESS PANEL

KEY PLAN



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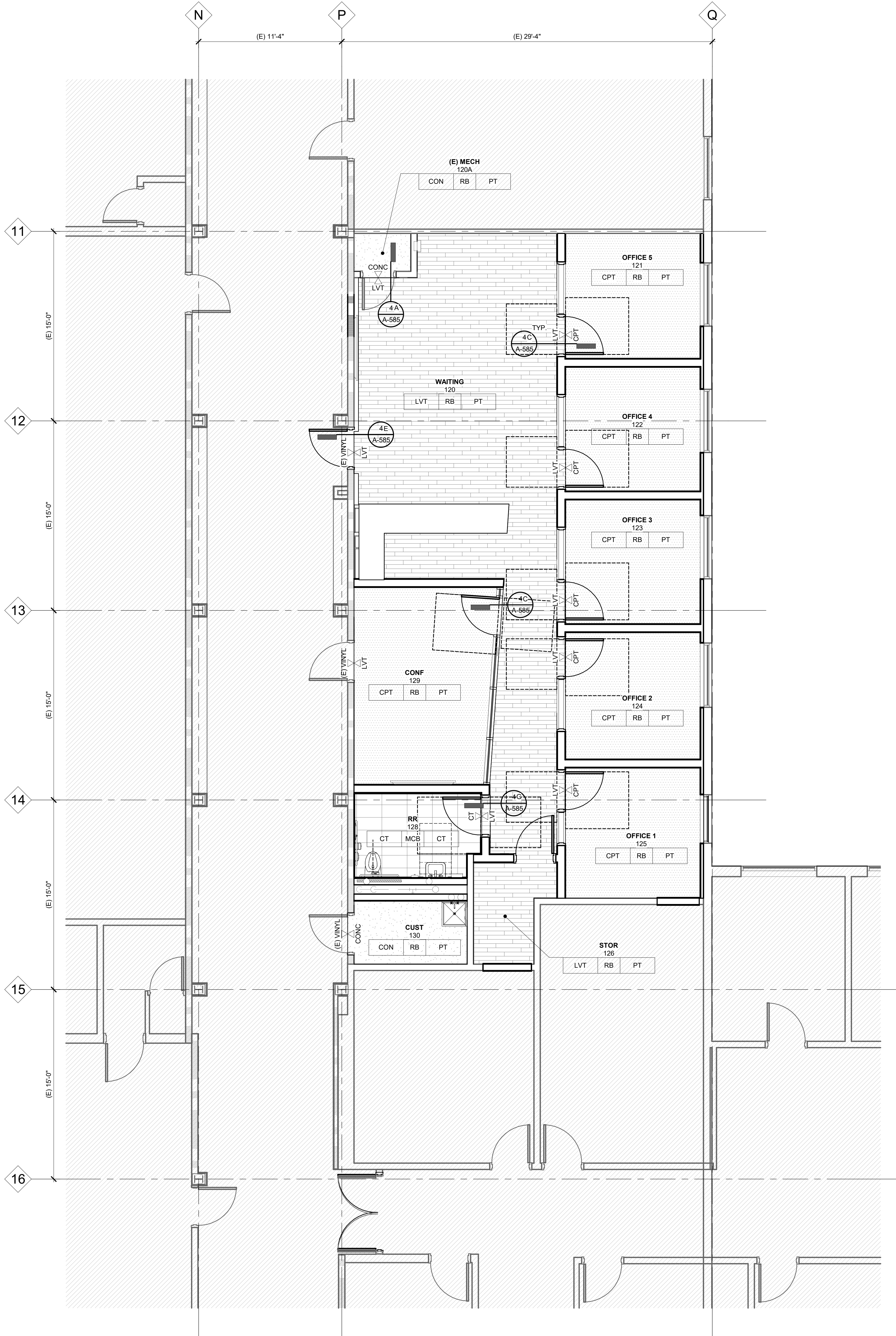
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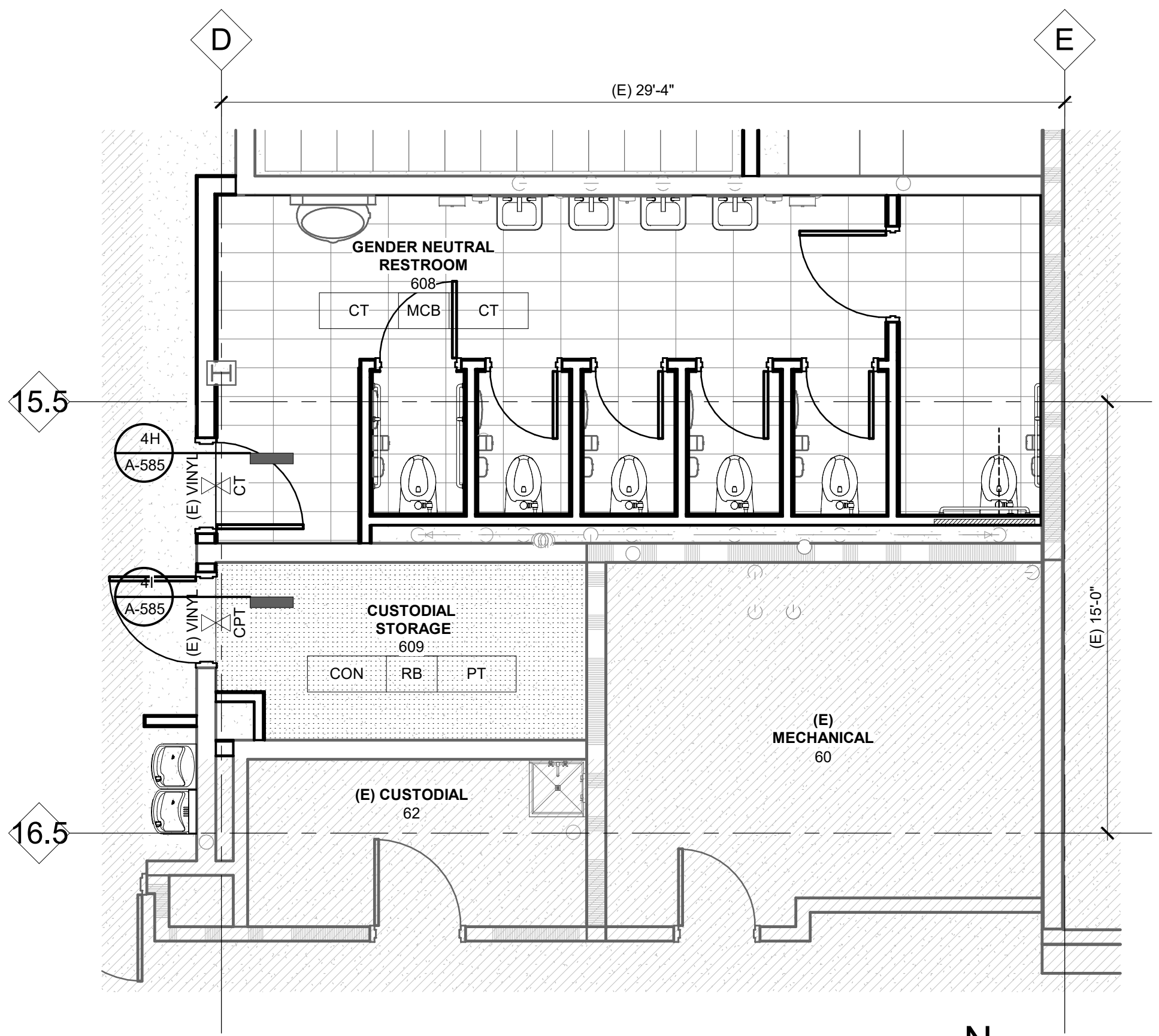
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Reflected Ceiling Plans

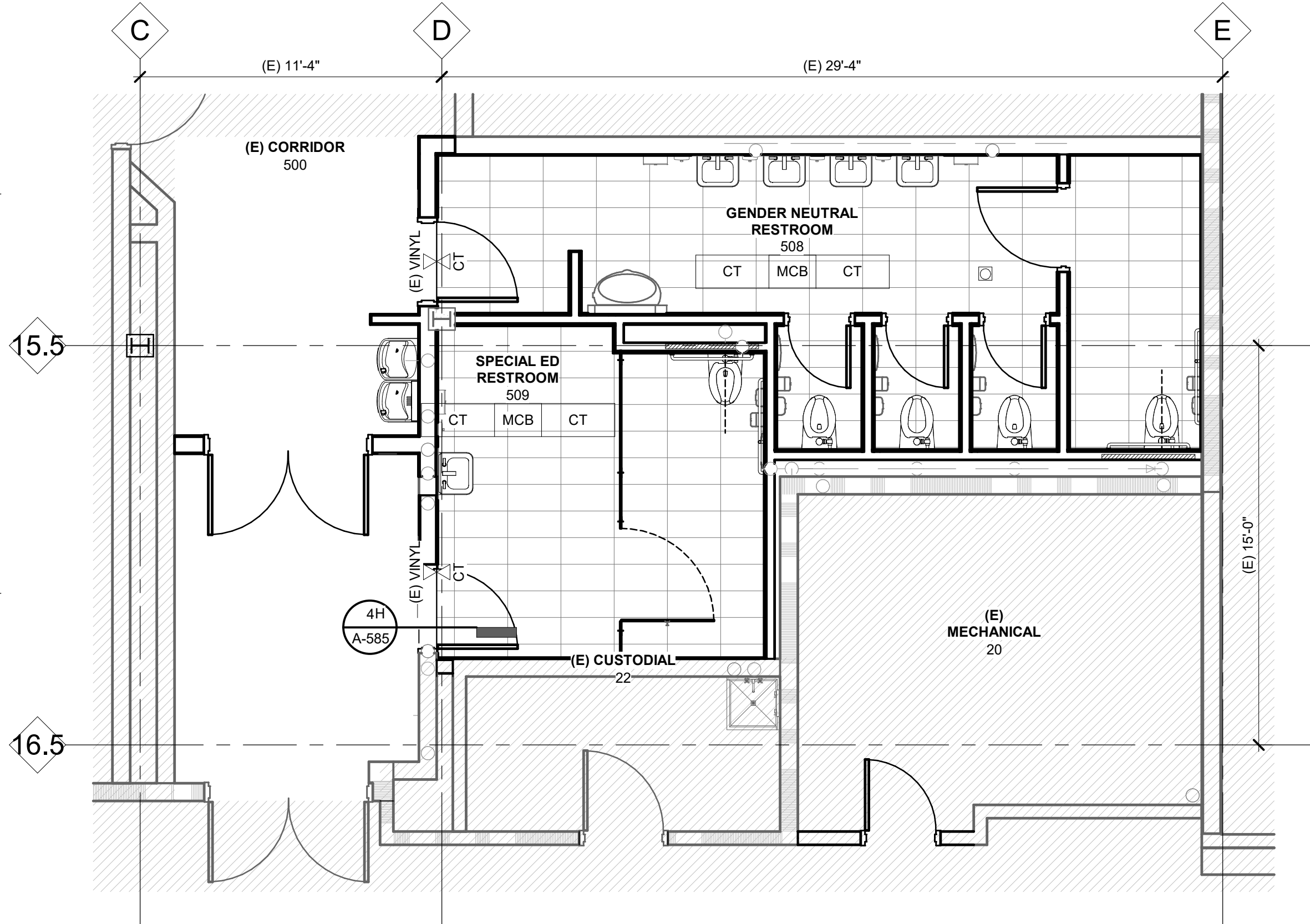
A-121



3 FINISH PLAN - BLDG L LEVEL 01 - WELLNESS
1/4" = 1'-0"



2 FINISH PLAN - BLDG C LEVEL 2 -RESTROOMS
1/4" = 1'-0"


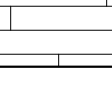
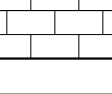



1 FINISH PLAN - BLDG C LEVEL 1 - RESTROOMS
1/4" = 1'-0"

FINISH PLAN NOTES

1. TRANSITION AND REDUCER STRIPS TO MATCH COLOR OF FLOORING, UNLESS OTHERWISE NOTED.
2. TRANSITION FLOOR FINISHES AT CENTER OF DOOR, UNLESS OTHERWISE NOTED.
3. FLOORS TO BE LEVELED AS REQUIRED TO ACCEPT FINISHES PER FINISH PLANS/SCHEDULE.
4. INSTALL ALL FLOORING IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. VERIFY LOCATION OF SEAMING AND TRANSITIONS WITH THE ARCHITECT.
5. RESILIENT TILE FLOORING TO BE SEALED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
6. RESILIENT BASE TO BE STRAIGHT AT CARPET FLOORING, COVED AT OTHER LOCATIONS.
7. RECESSED WIREWAYS, ACCESS PANELS, GRILLES, FIRE EXTINGUISHER CABINETS, ELECTRICAL PANELS, AND OTHER SUCH ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DEVICES SHALL BE FINISHED TO MATCH ADJACENT WALL OR CEILING SURFACE, UNLESS OTHERWISE NOTED.
8. FINISH MATERIALS TO COMPLY WITH CODE REQUIRED FLAME SPREAD AND SMOKE DEVELOPED RATINGS.
 - MATERIALS USED IN CORRIDORS SHALL CONFORM TO CLASS 1 REQUIREMENT, FLAME SPREAD RATING 0 TO 25 AND MAXIMUM SMOKE DEVELOPED 200 RATING.
9. PATCH AND REPAIR ALL EXISTING FLOORING WHERE DAMAGED OR REMOVED AS PART OF DEMOLITION OR CONSTRUCTION OF NEW PARTITIONS. MATCH (E) ADJACENT FINISH.
10. PATCH AND REPAIR ALL EXISTING WALL FINISHES WHERE DAMAGED OR REMOVED AS PART OF DEMOLITION OR CONSTRUCTION OF NEW PARTITIONS. MATCH (E) ADJACENT FINISH.

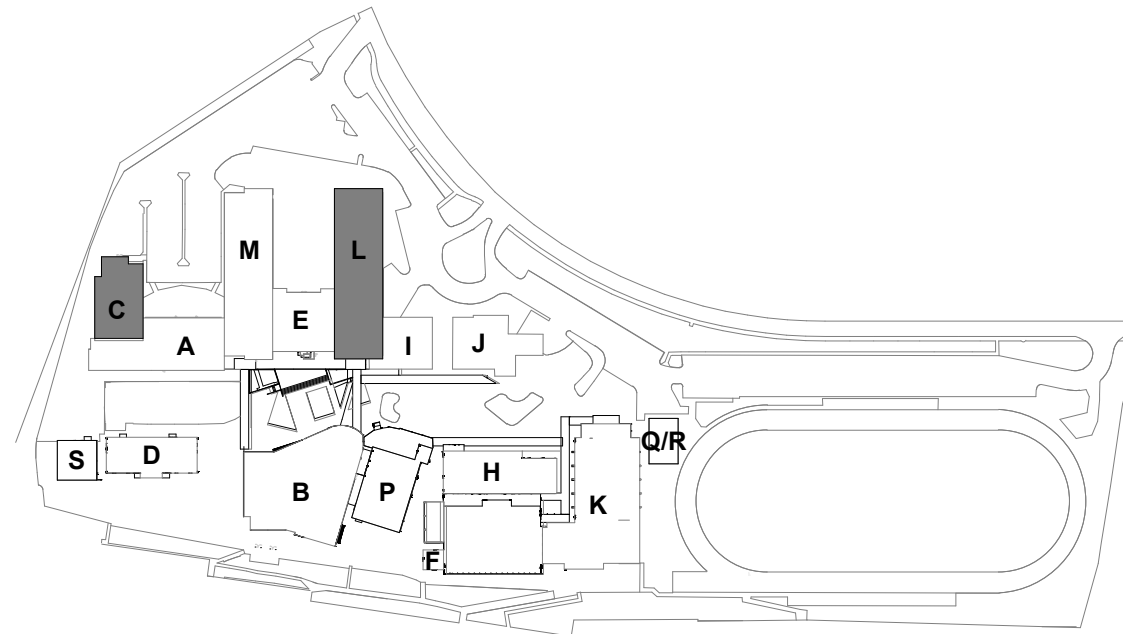
FINISH PLAN LEGEND

Room name 101		
FLOOR	BASE	WALL
		WALL FINISH
		WALL BASE FINISH
		FLOOR FINISH
CON	FLOOR TRANSITIONS, SEE A-585 FOR DETAILS	
LVT		
<u>FLOOR FINISH</u>		
CON		
LVT-1		
CT		
CPT-1		

ABBREVIATION

FLOOR	
CON	SEALED CONCRETE FLOOR
CPT	CARPET TILE
CT	CERAMIC TILE
LVT	LUXURY VINYL TILE
BASE	
RB	RUBBER BASE
MCB	METAL COVED BASE
WALL	
GYP	GYPSUM BOARD
PT	PAINT
FRP	FRP WALL PANELING
CT	CERAMIC TILE
MISCELLANEOUS	
CG	CORNER GUARD
M	FRAMELESS MIRROR
WB	WHITEBOARD
WS	WINDOW SHADE

KEY PLAN



San Rafael City
Schools



310 Nova Albion Way, San Rafael, CA
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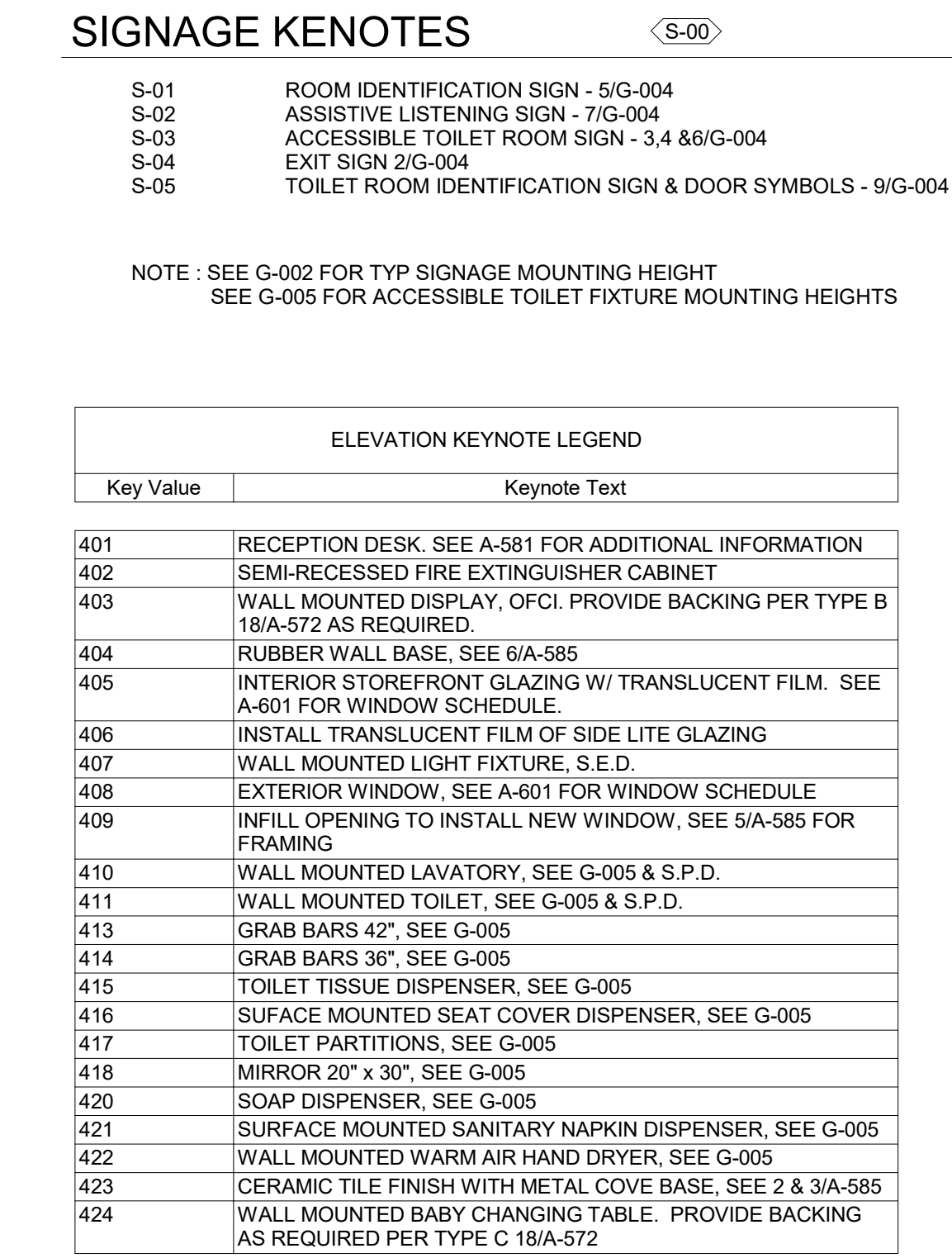
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Finish Plans

A-141



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A-411

SIGNAGE KENOTES

< S-00

S-01	ROOM IDENTIFICATION SIGN - 5/G-004
S-02	ASSISTIVE LISTENING SIGN - 7/G-004
S-03	ACCESSIBLE TOILET ROOM SIGN - 3,4 &8/G-004
S-04	EXIT SIGN 2/G-004
S-05	TOILET ROOM IDENTIFICATION SIGN & DOOR SYMBOLS - 9/G-004

NOTE : SEE G-002 FOR TYP SIGNAGE MOUNTING HEIGHT
SEE G-005 FOR ACCESSIBLE TOILET FIXTURE MOUNTING HEIGHTS

ELEVATION KEYNOTE LEGEND	
Key Value	Keynote Text
404	RUBBER WALL BASE, SEE 6/A-585
410	WALL MOUNTED LAVATORY, SEE G-005 & S.P.D.
411	WALL MOUNTED TOILET, SEE G-005 & S.P.D.
413	GRAB BARS 42", SEE G-005
414	GRAB BARS 36", SEE G-005
415	TOILET TISSUE DISPENSER, SEE G-005
416	SURFACE MOUNTED SEAT COVER DISPENSER, SEE G-005
418	MIRROR 20" x 30", SEE G-005
420	SOAP DISPENSER, SEE G-005
421	SURFACE MOUNTED SANITARY NAPKIN DISPENSER, SEE G-005
422	WALL MOUNTED WARM AIR HAND DRYER, SEE G-005
423	CERAMIC TILE FINISH WITH METAL COVE BASE, SEE 2 & 3/A-585
424	WALL MOUNTED BABY CHANGING TABLE, PROVIDE BACKING AS REQUIRED PER TYPE C 18/A-572
425	DRINKING FOUNTAIN, SEE 9/G-003 & 1/P-002

San Rafael City Schools

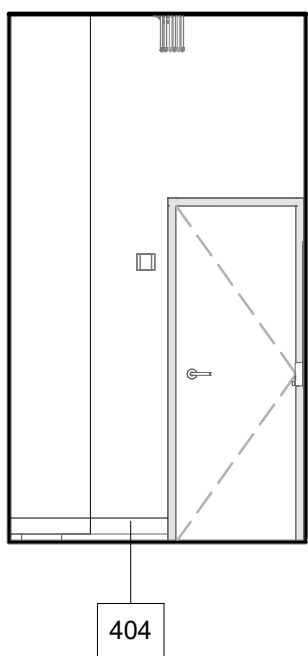


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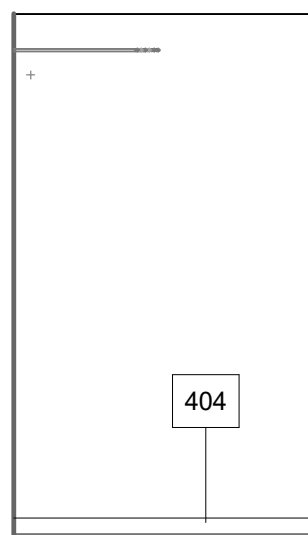
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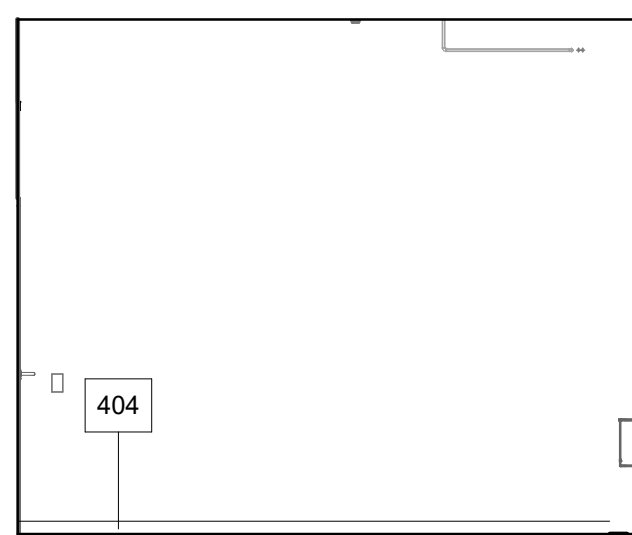
17 WEST ELEVATION - SPECIAL ED STOR 609
1/4" = 1'-0"



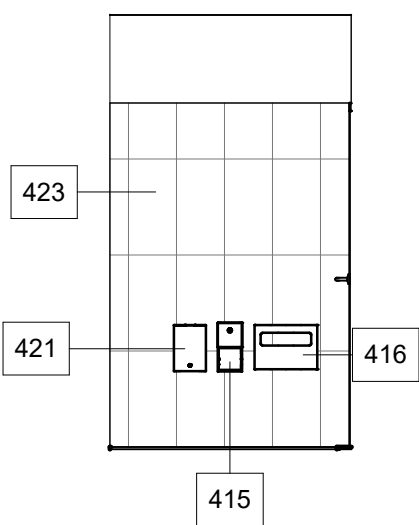
16 SOUTH ELEVATION - SPECIAL ED STOR 609
1/4" = 1'-0"



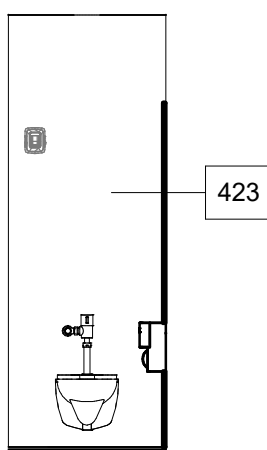
15 EAST ELEVATION - SPECIAL ED STOR 609
1/4" = 1'-0"



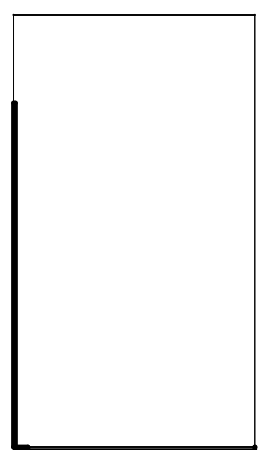
14 NORTH ELEVATION - SPECIAL ED STOR 609
1/4" = 1'-0"



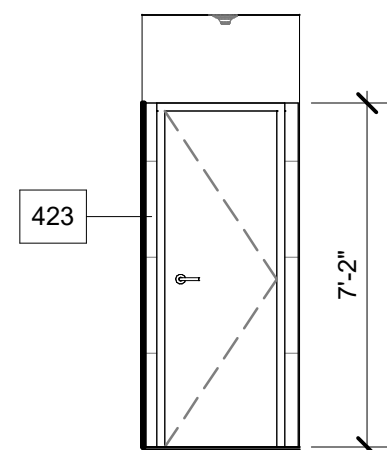
13 WEST ELEVATION - GN RR 608 STALL
1/4" = 1'-0"



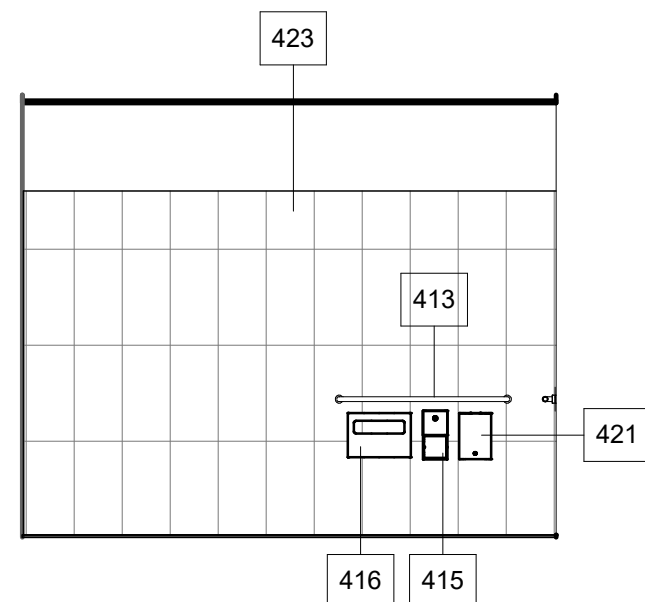
12 SOUTH ELEVATION - GN RR 608 STALL
1/4" = 1'-0"



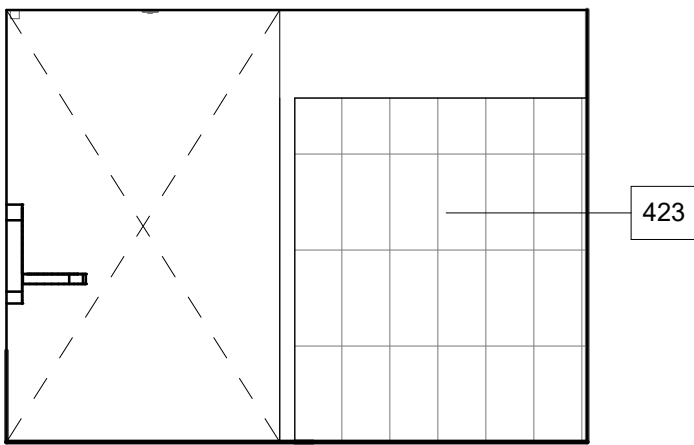
11 EAST ELEVATION - GN RR 608 STALL
1/4" = 1'-0"



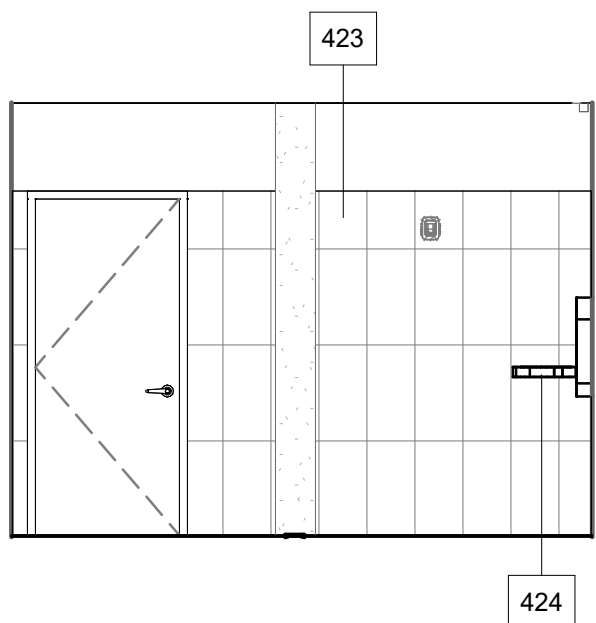
10 NORTH ELEVATION - GN RR 608 STALL
1/4" = 1'-0"



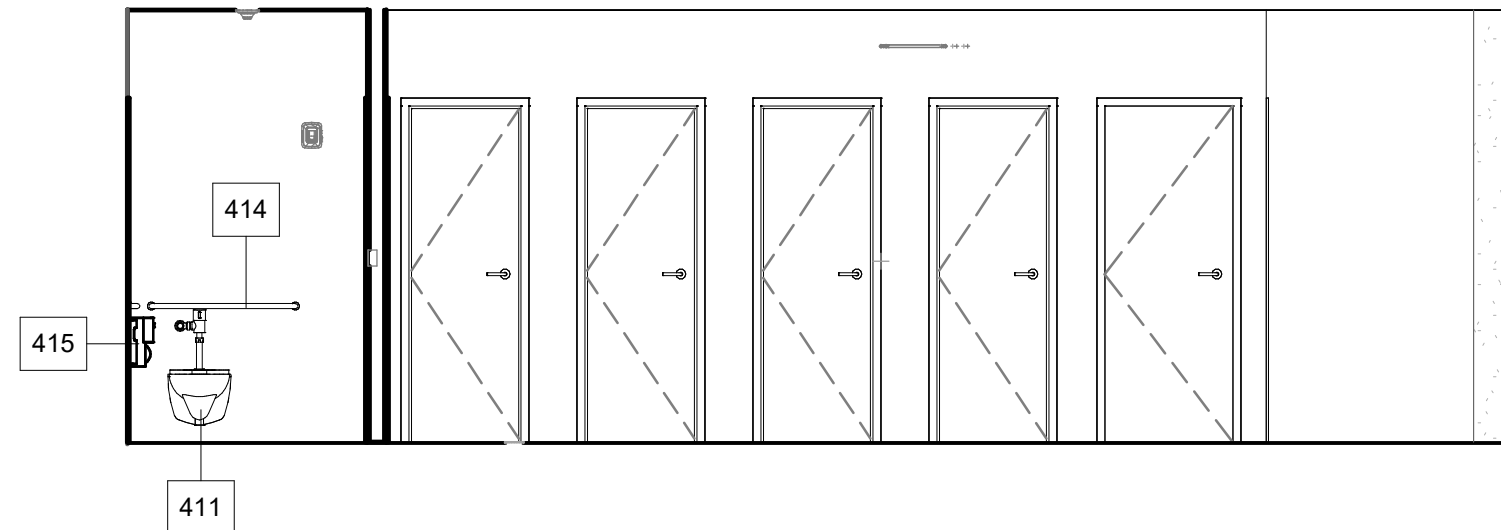
9 EAST ELEVATION - GN RR 608 ACCESS STALL
1/4" = 1'-0"



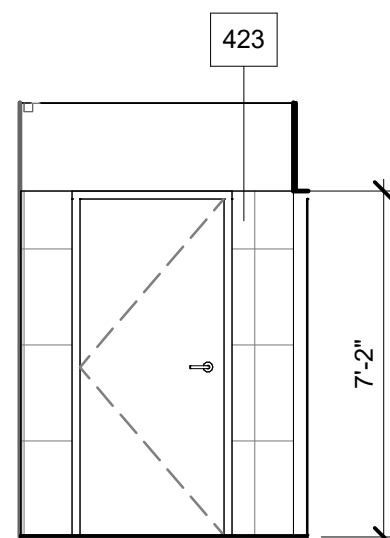
8 EAST ELEVATION - GN RR 608 ENTRY
1/4" = 1'-0"



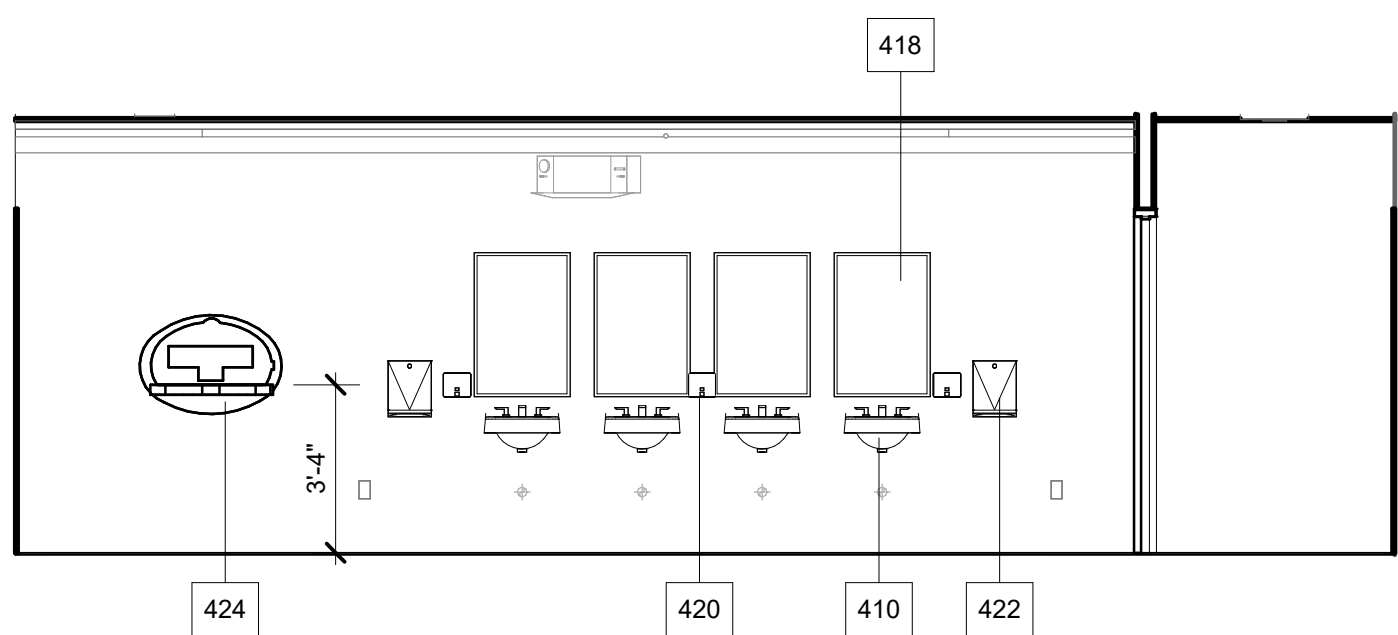
7 WEST ELEVATION - GN RR 608
1/4" = 1'-0"



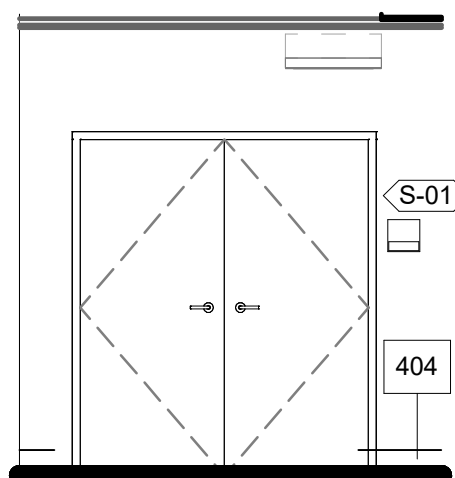
6 SOUTH ELEVATION - GN RR 608
1/4" = 1'-0"



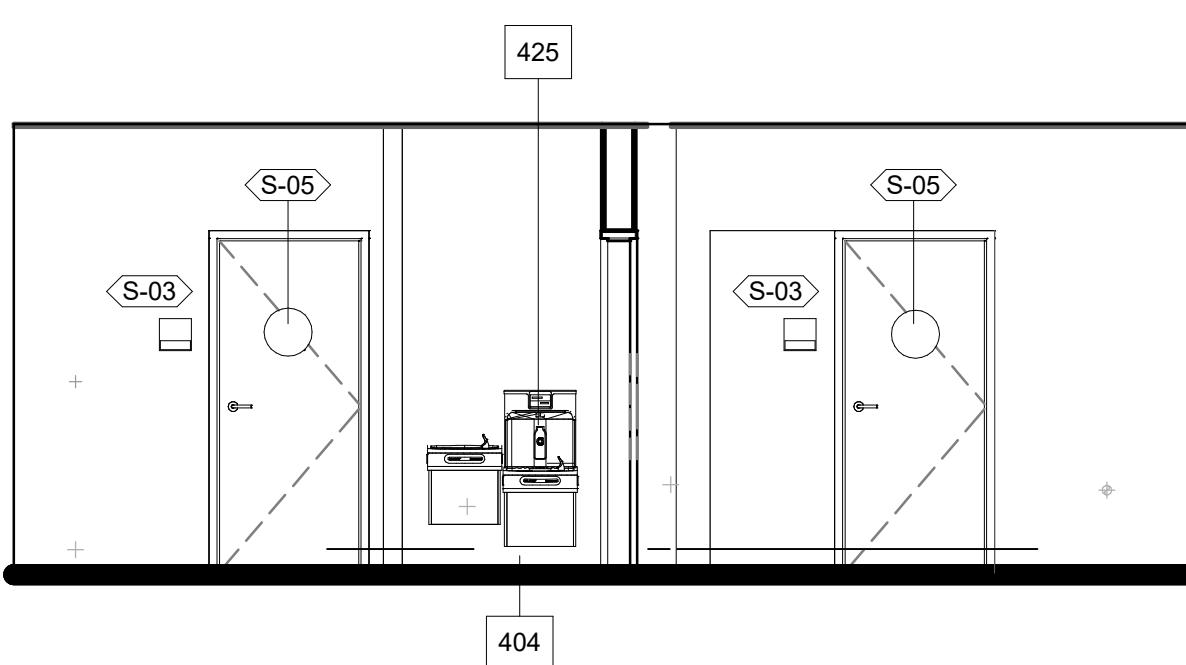
5 EAST ELEVATION - GN RR 608
1/4" = 1'-0"



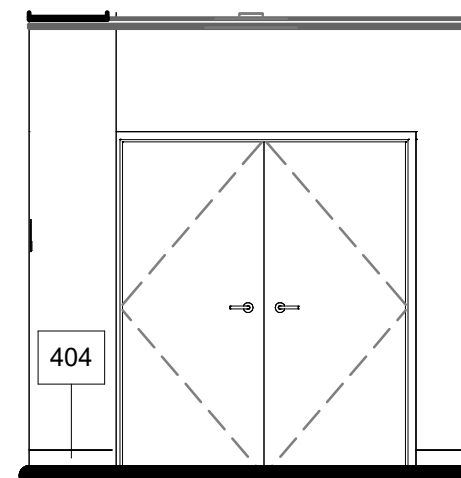
4 NORTH ELEVATION - GN RR 608
1/4" = 1'-0"



3 NORTH ELEVATION - CORRIDOR L1
1/4" = 1'-0"

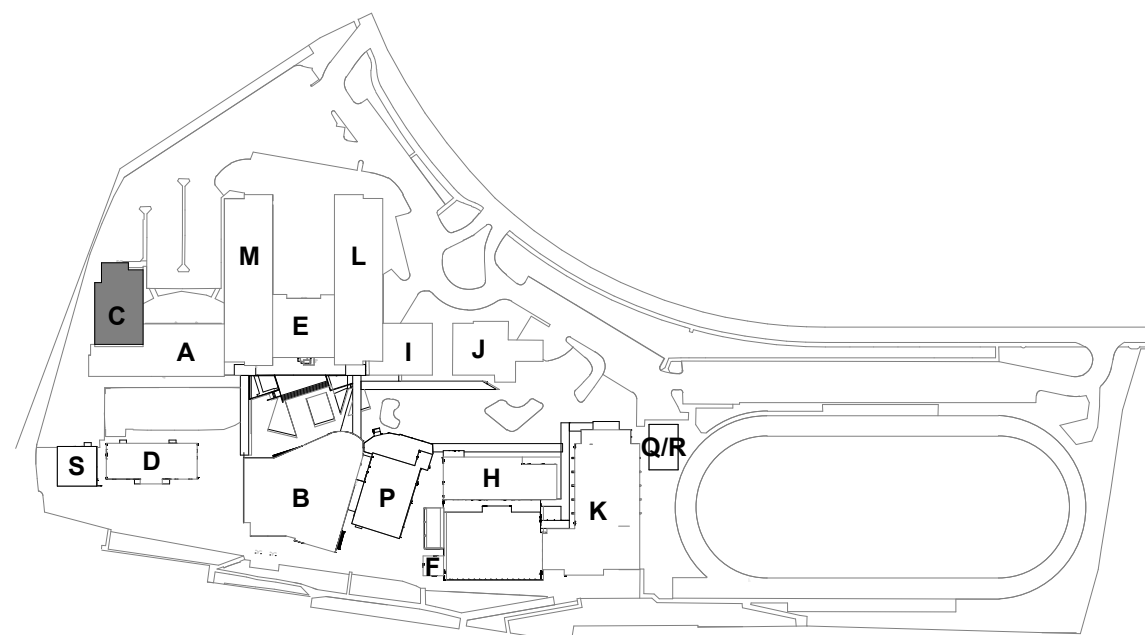


2 EAST ELEVATION - CORRIDOR L1
1/4" = 1'-0"



1 SOUTH ELEVATION - CORRIDOR L1
1/4" = 1'-0"

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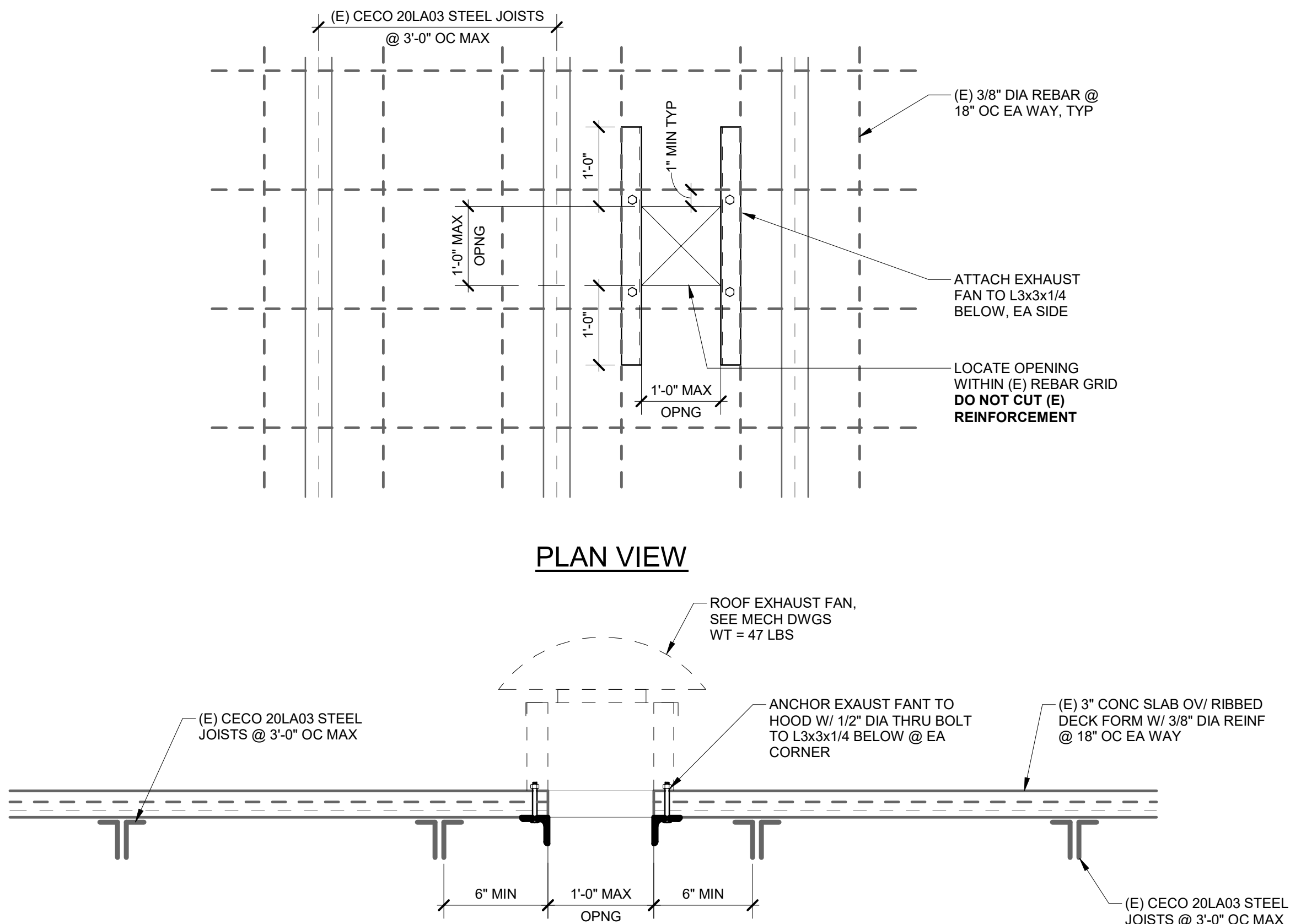
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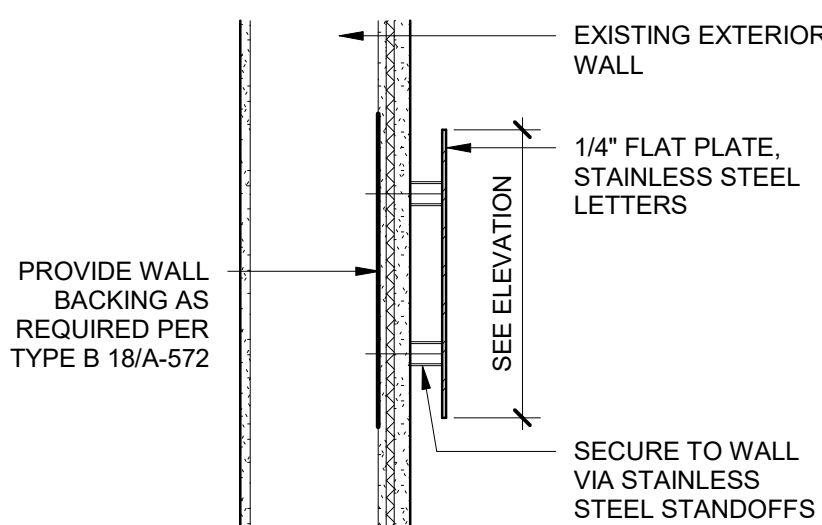
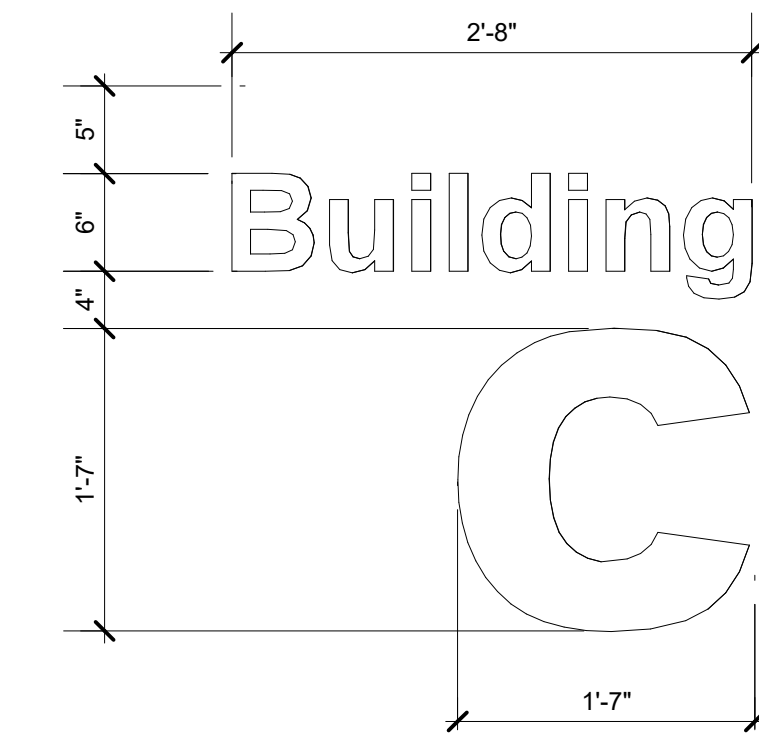
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Interior Elevations

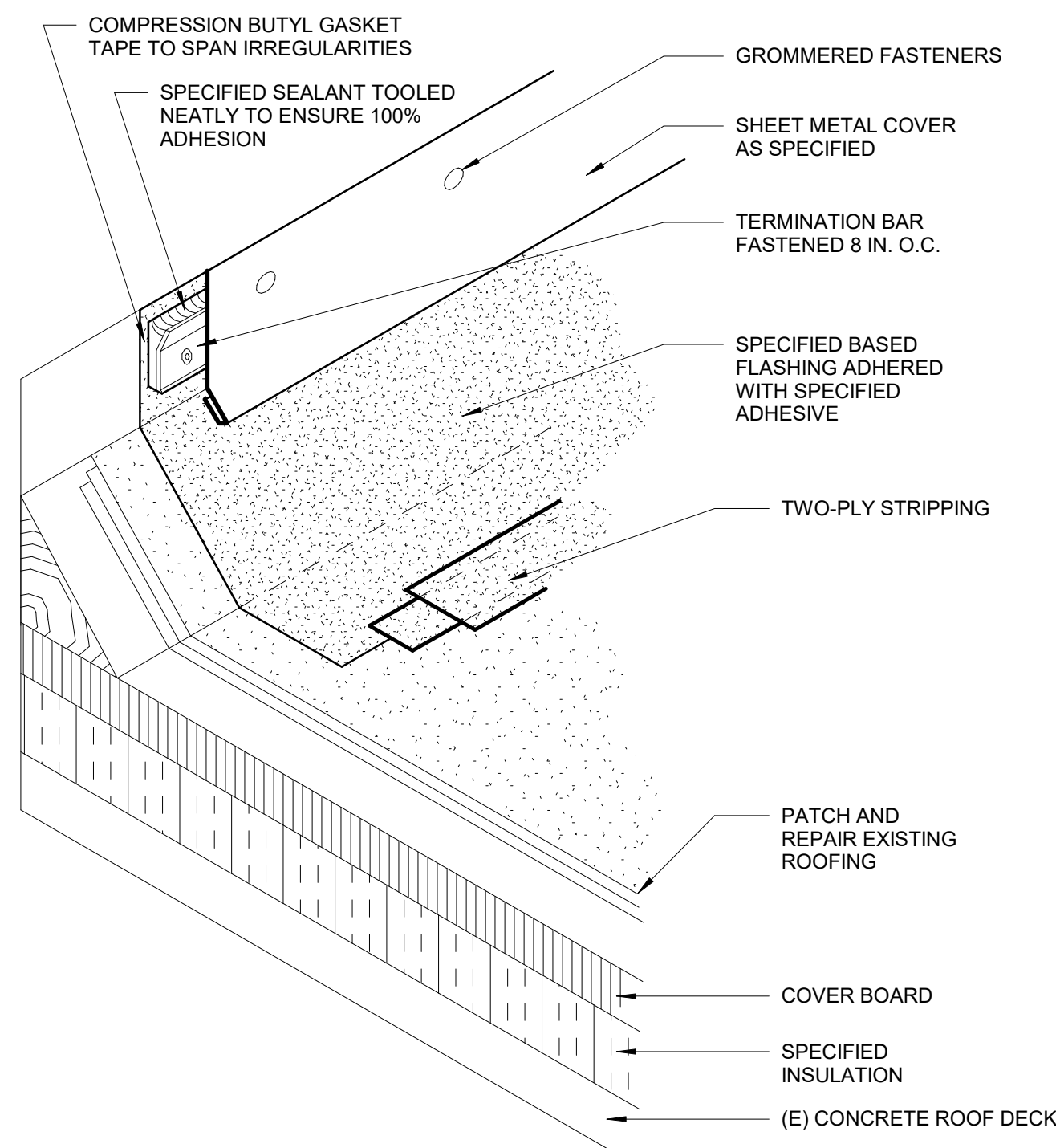
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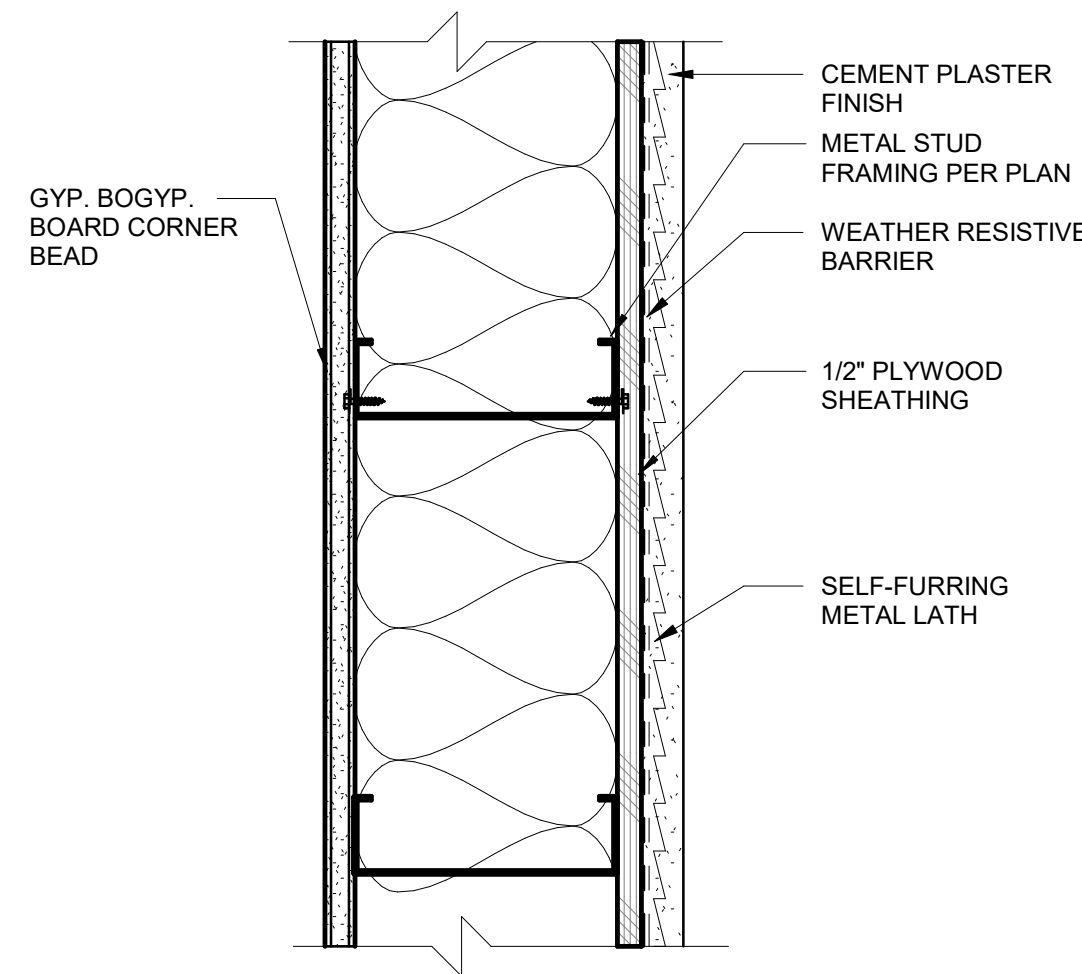
7 ROOF OPENING FOR MECH FAN
1" = 1'-0"



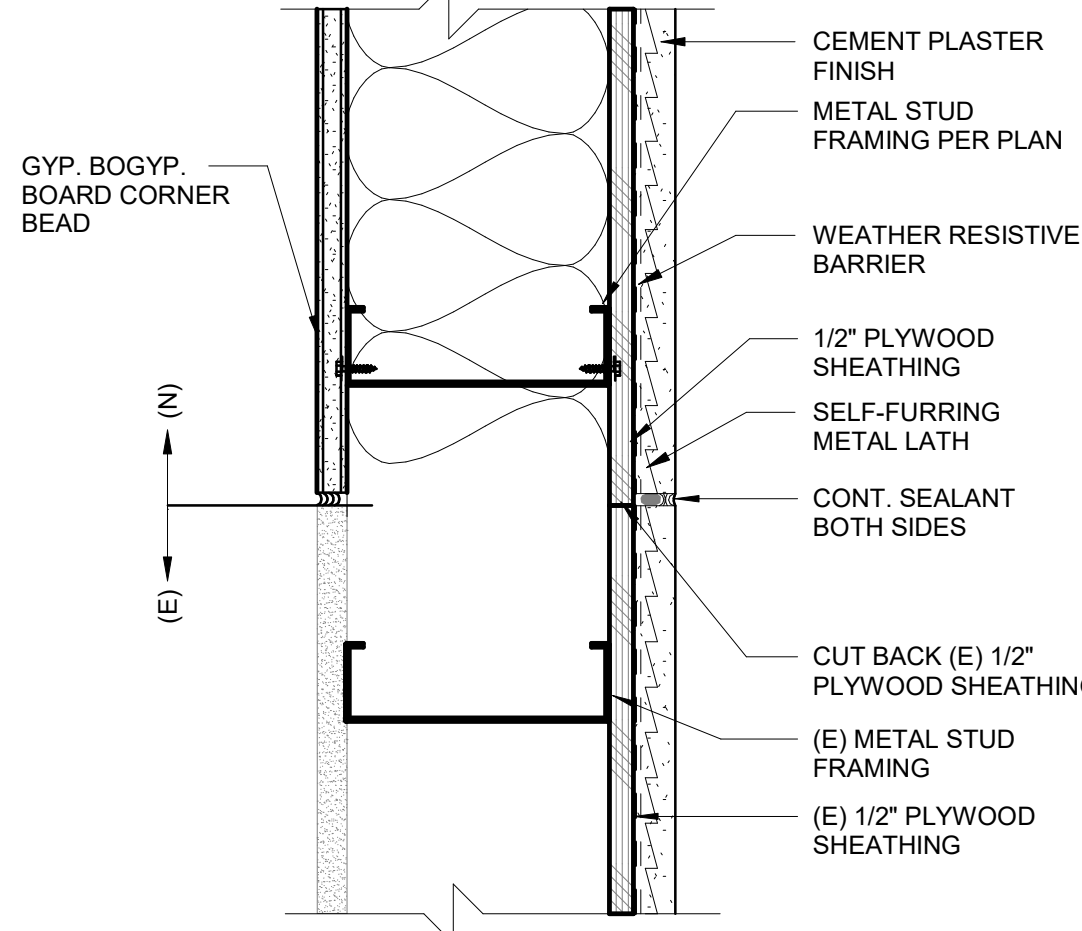
8 FLAT PLATE WALL MOUNTED SIGNAGE
1" = 1'-0"



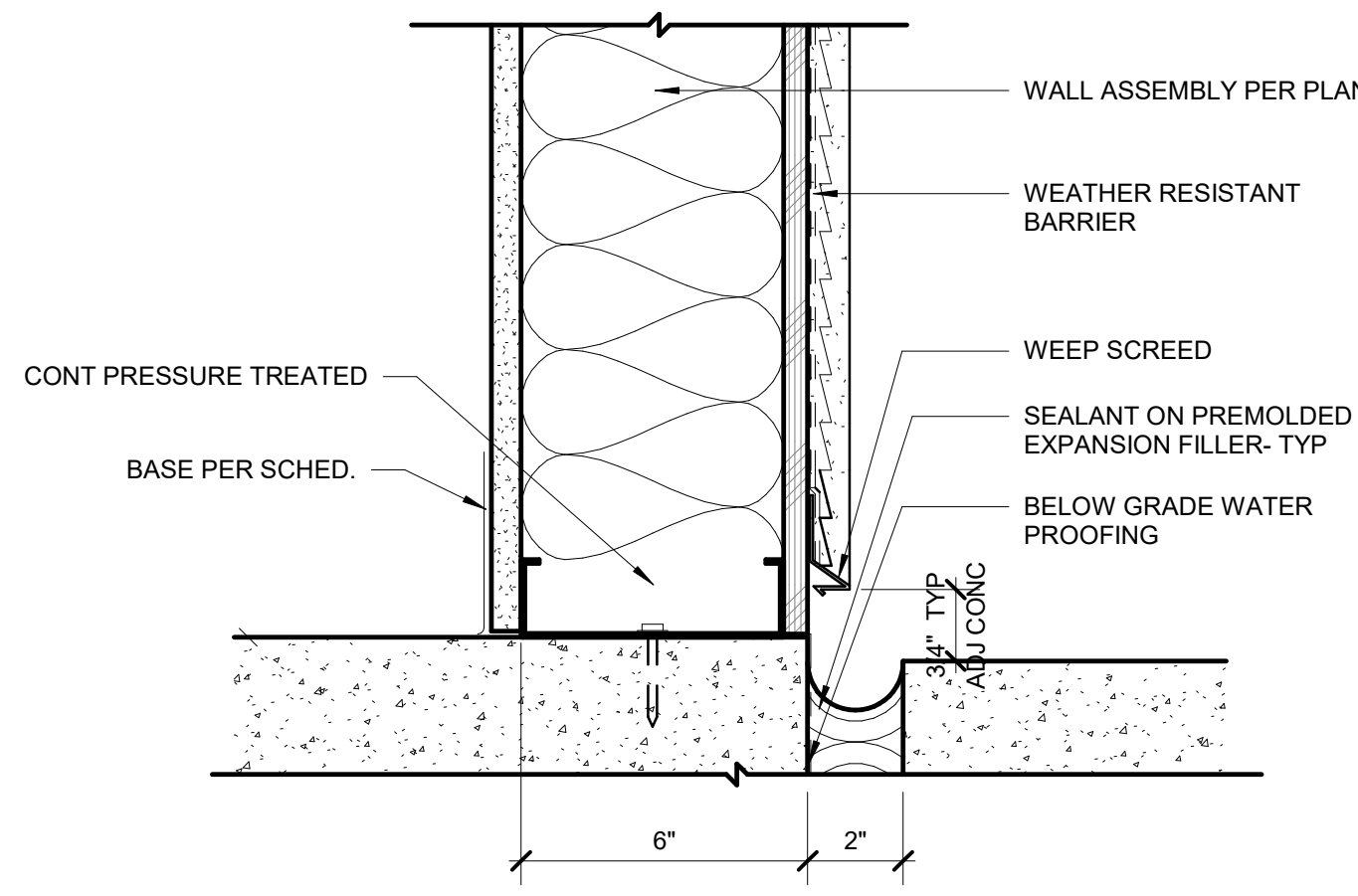
6 METAL CURB
3" = 1'-0"



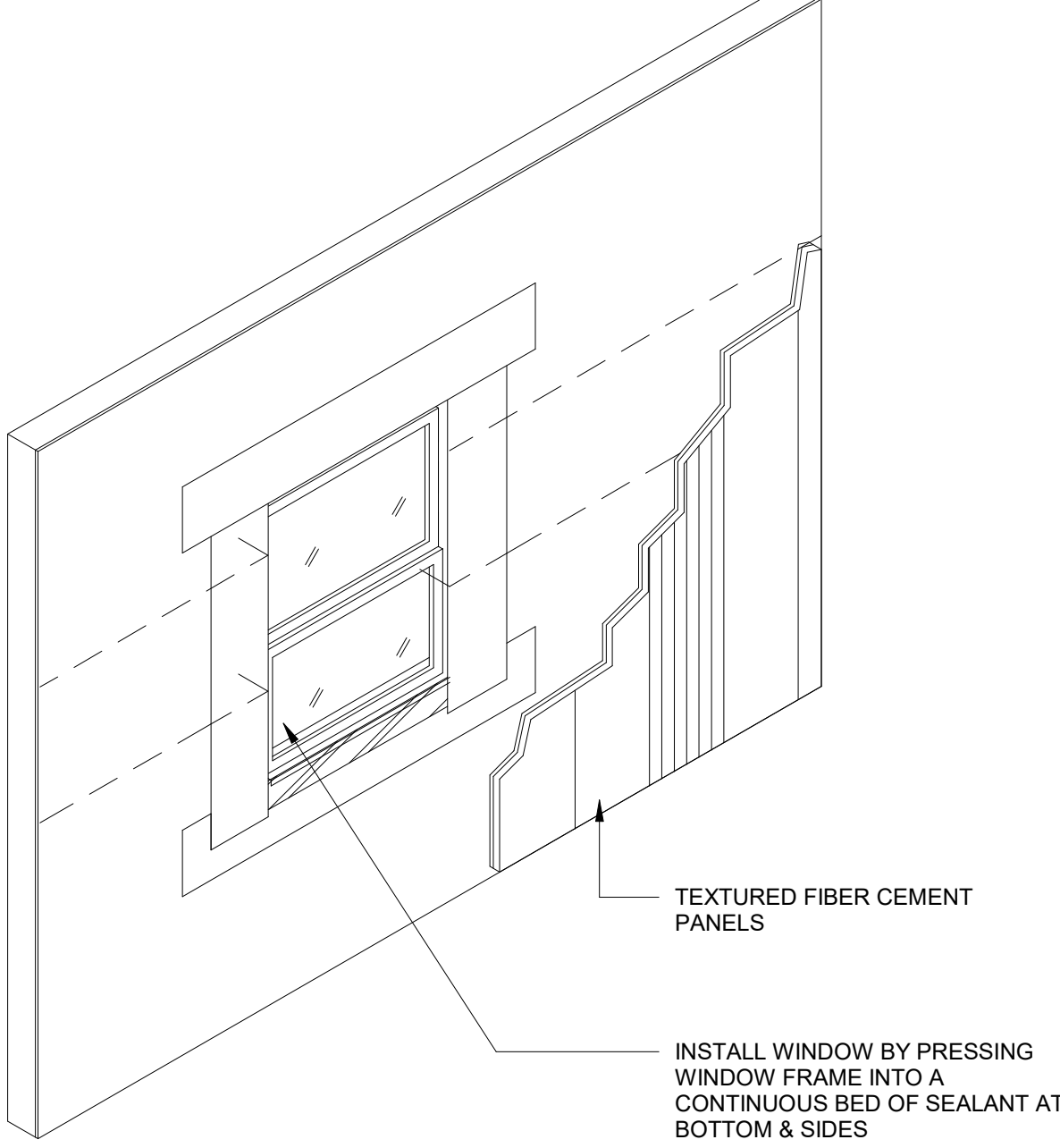
3 TYP. CEMENT PLASTER - VERTICAL
3" = 1'-0"



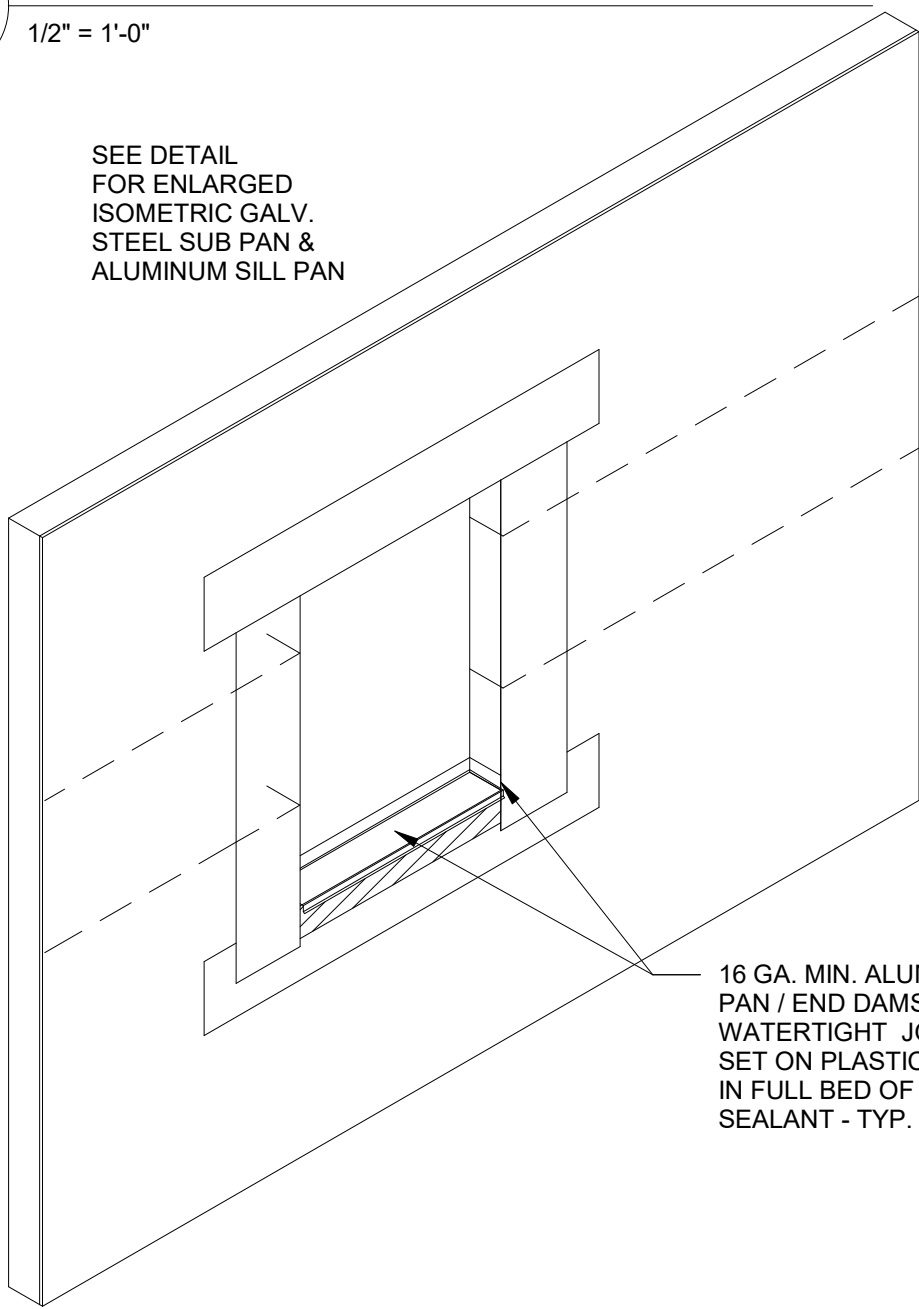
2 TYP. CEMENT PLASTER INFILL DETAIL @ (E) EXTERIOR WALL
3" = 1'-0"



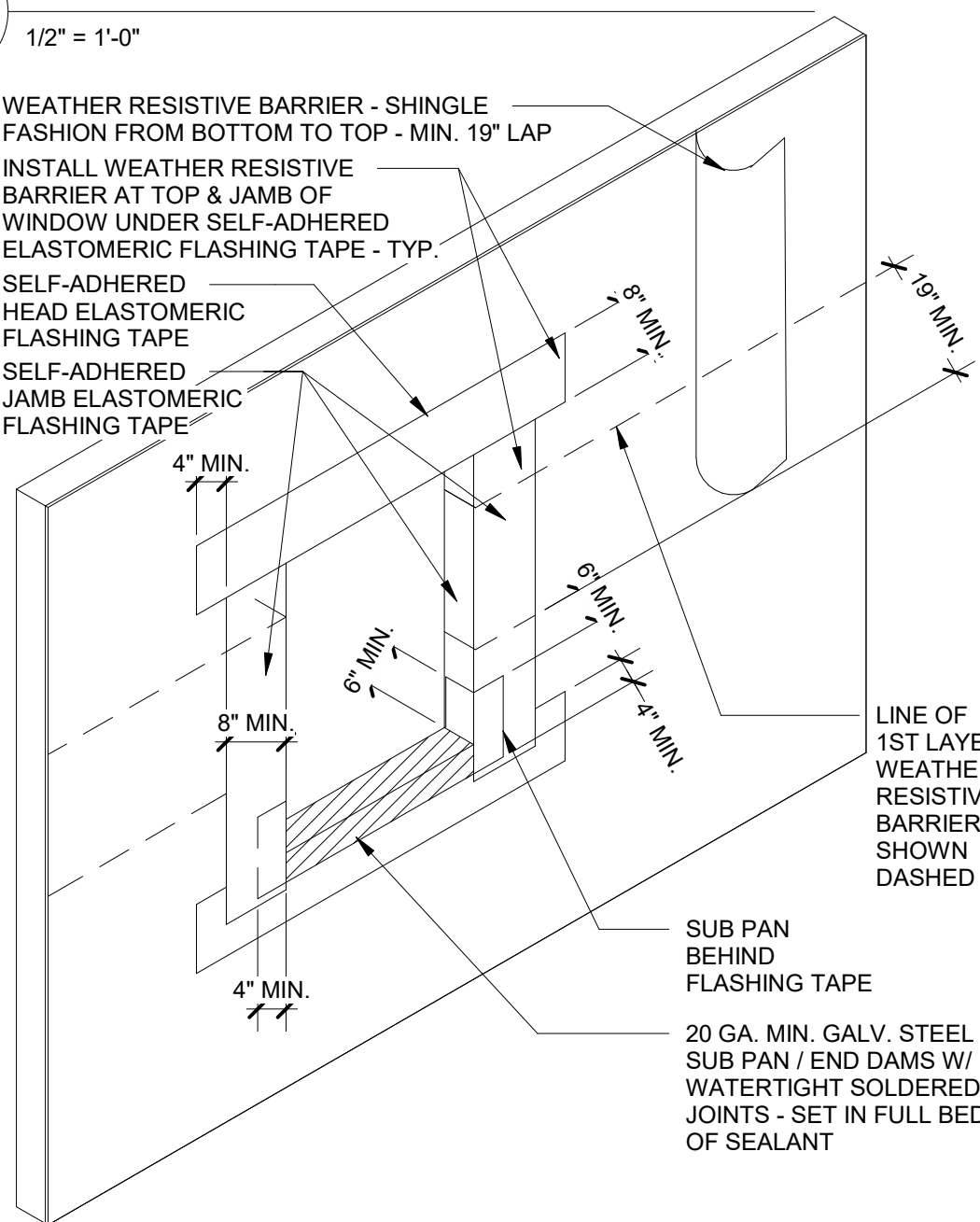
1 TYP. CEMENT PLASTER BASE DETAIL
3" = 1'-0"



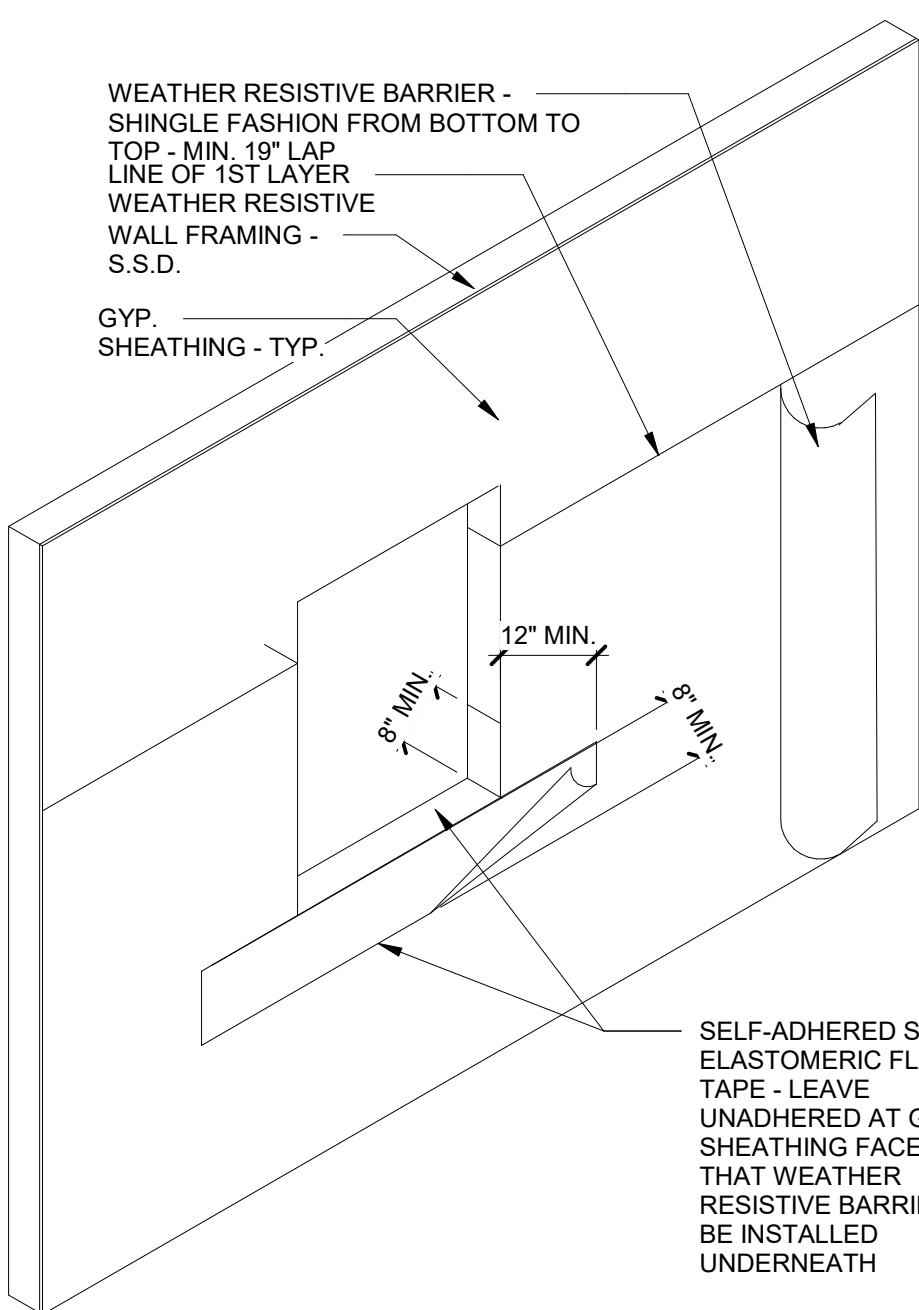
21 TYP. OPENING FLASHING STEP-D
1/2" = 1'-0"



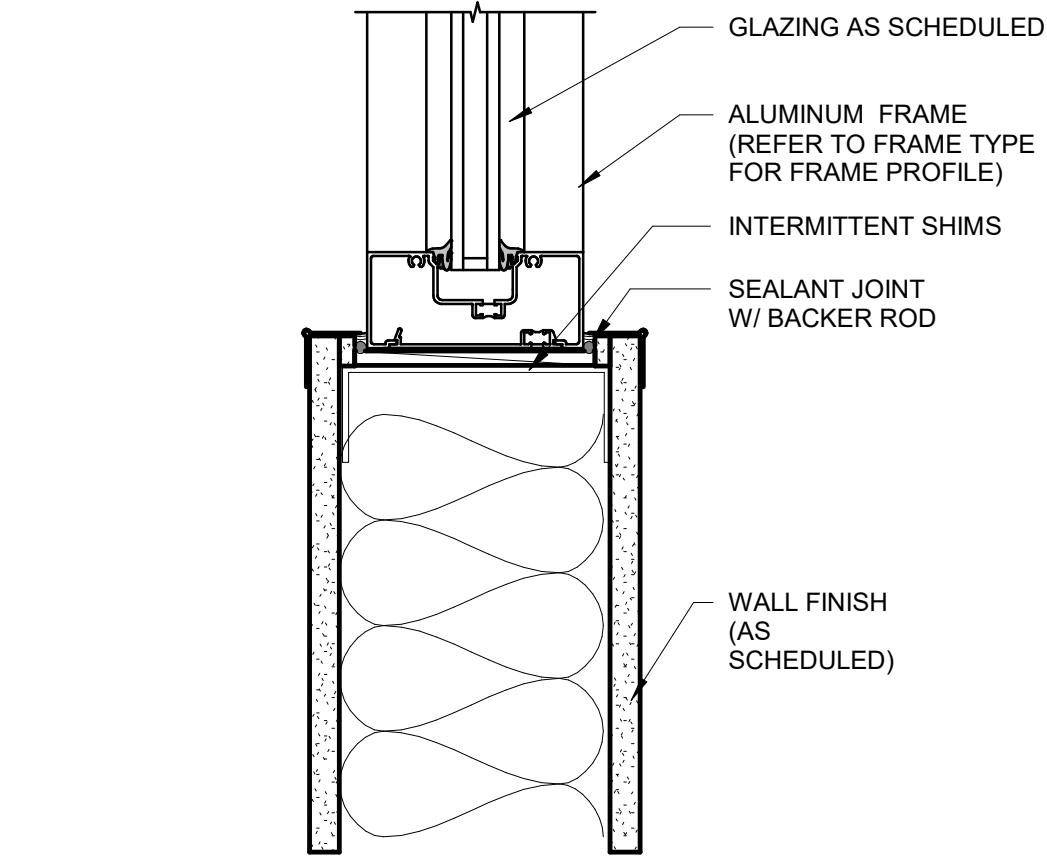
20 TYP. OPENING FLASHING STEP-C
1/2" = 1'-0"



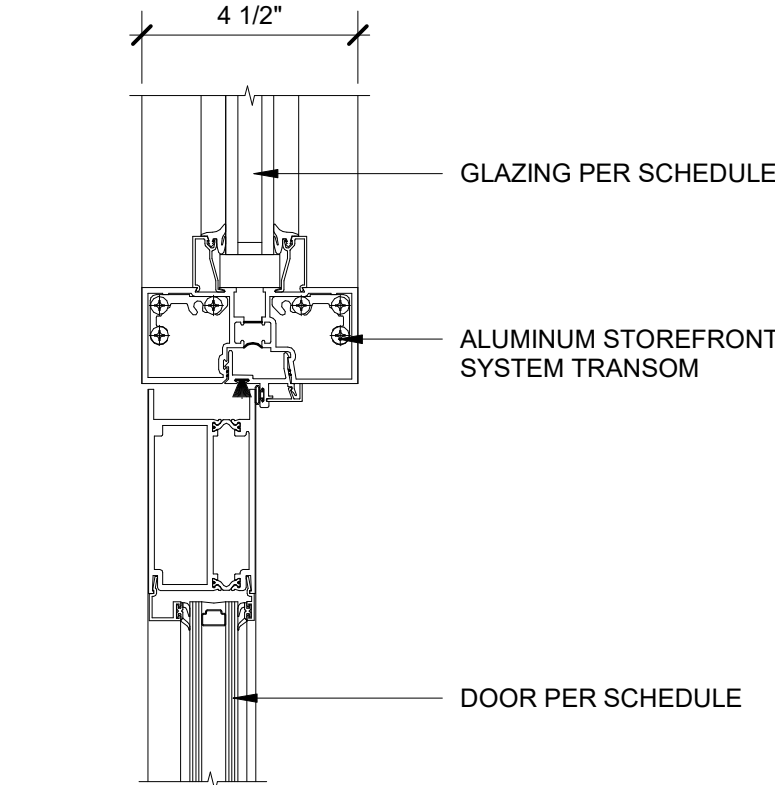
19 TYP. OPENING FLASHING STEP-B
1/2" = 1'-0"



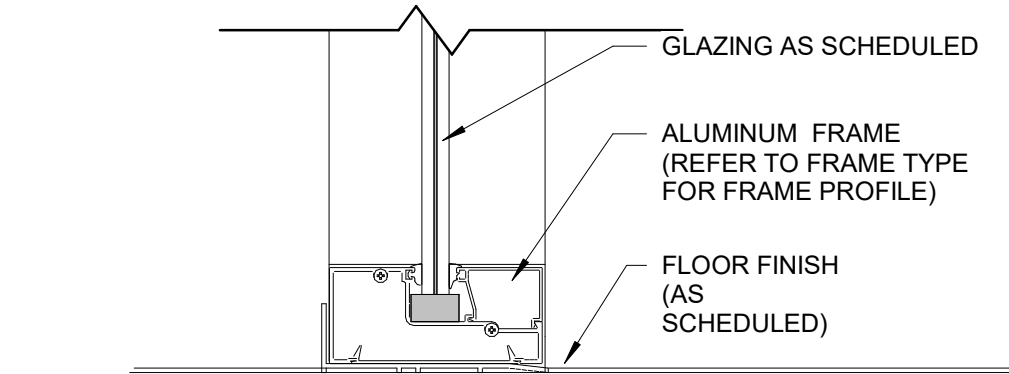
18 TYP. OPENING FLASHING STEP-A
1/2" = 1'-0"



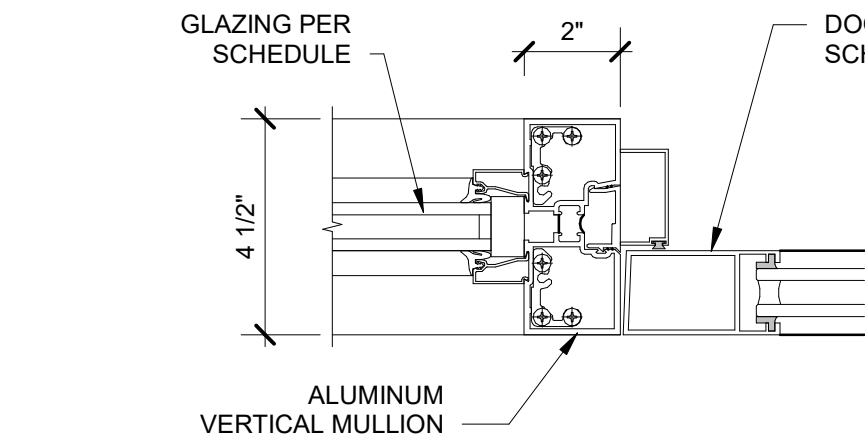
22 INTERIOR WINDOW SILL
3" = 1'-0"



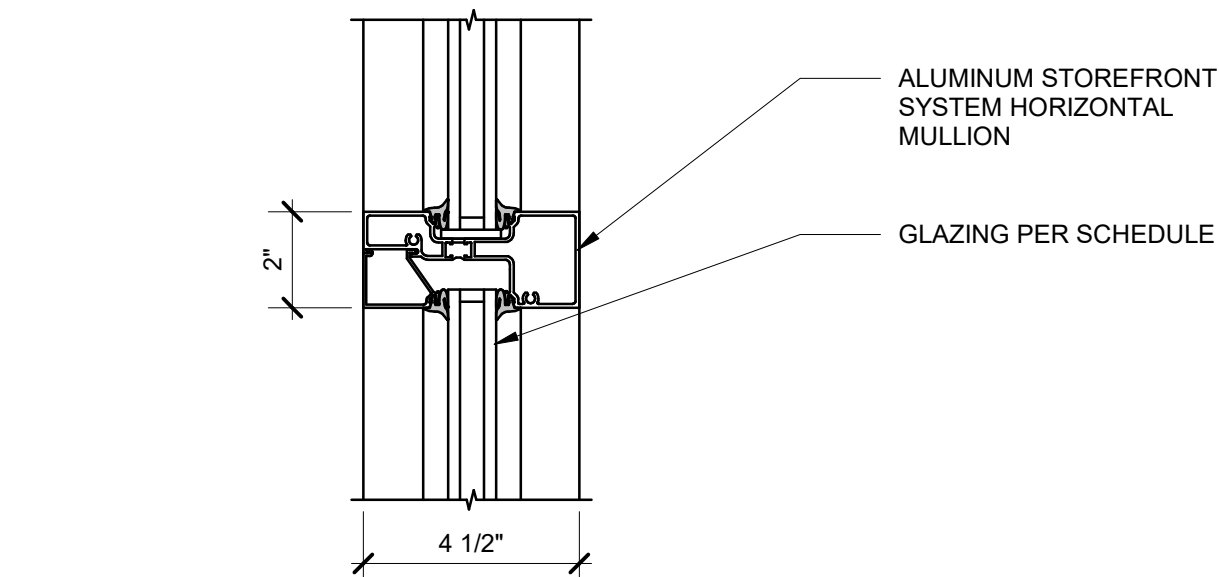
17 ALUMINUM STOREFRONT TRANSOM
3" = 1'-0"



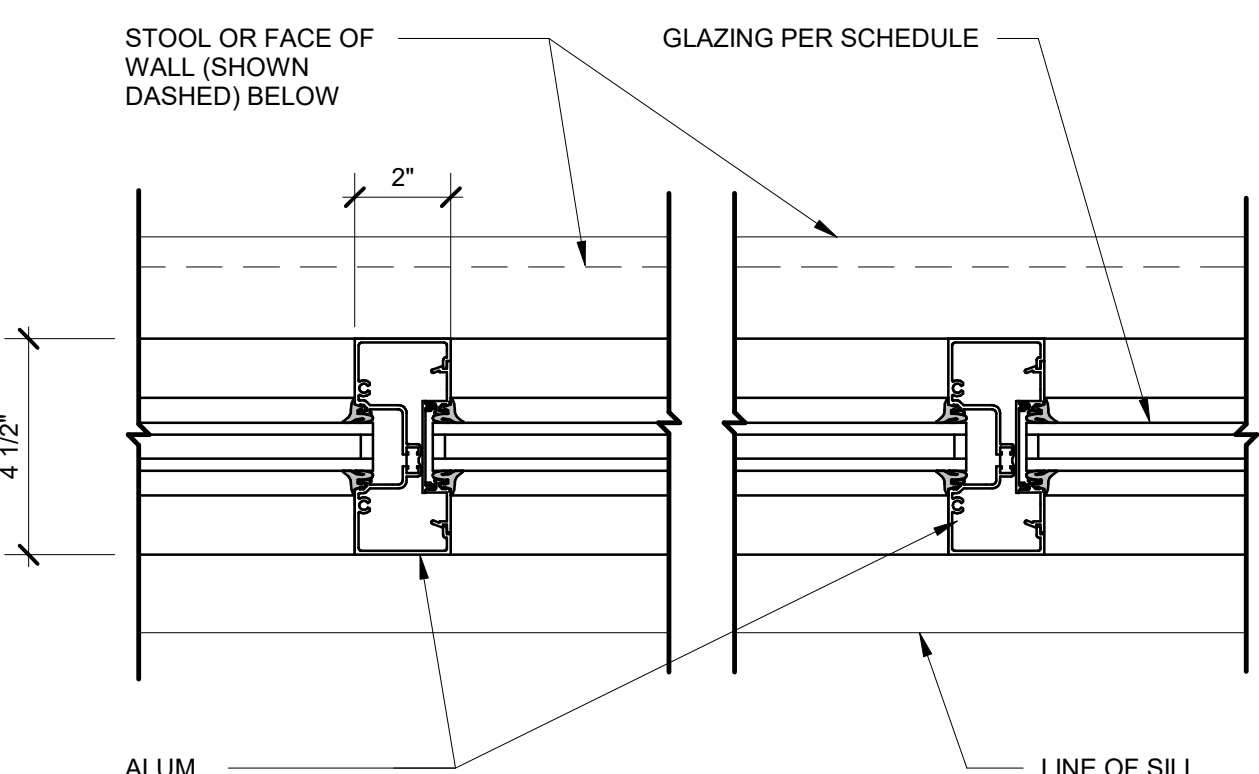
16 INTERIOR STOREFRONT SILL
3" = 1'-0"



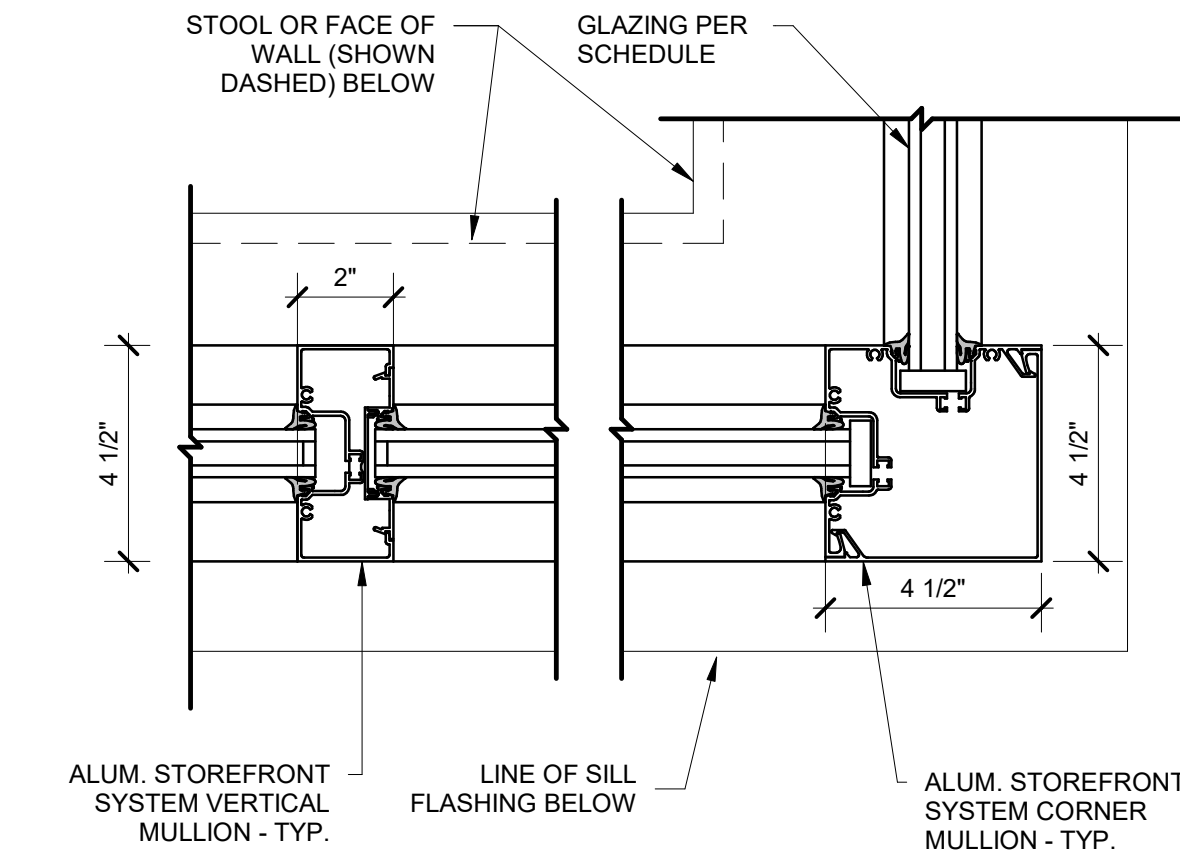
15 TYP. STOREFRONT DOOR JAMB/HEAD SIM@ WINDOW
3" = 1'-0"



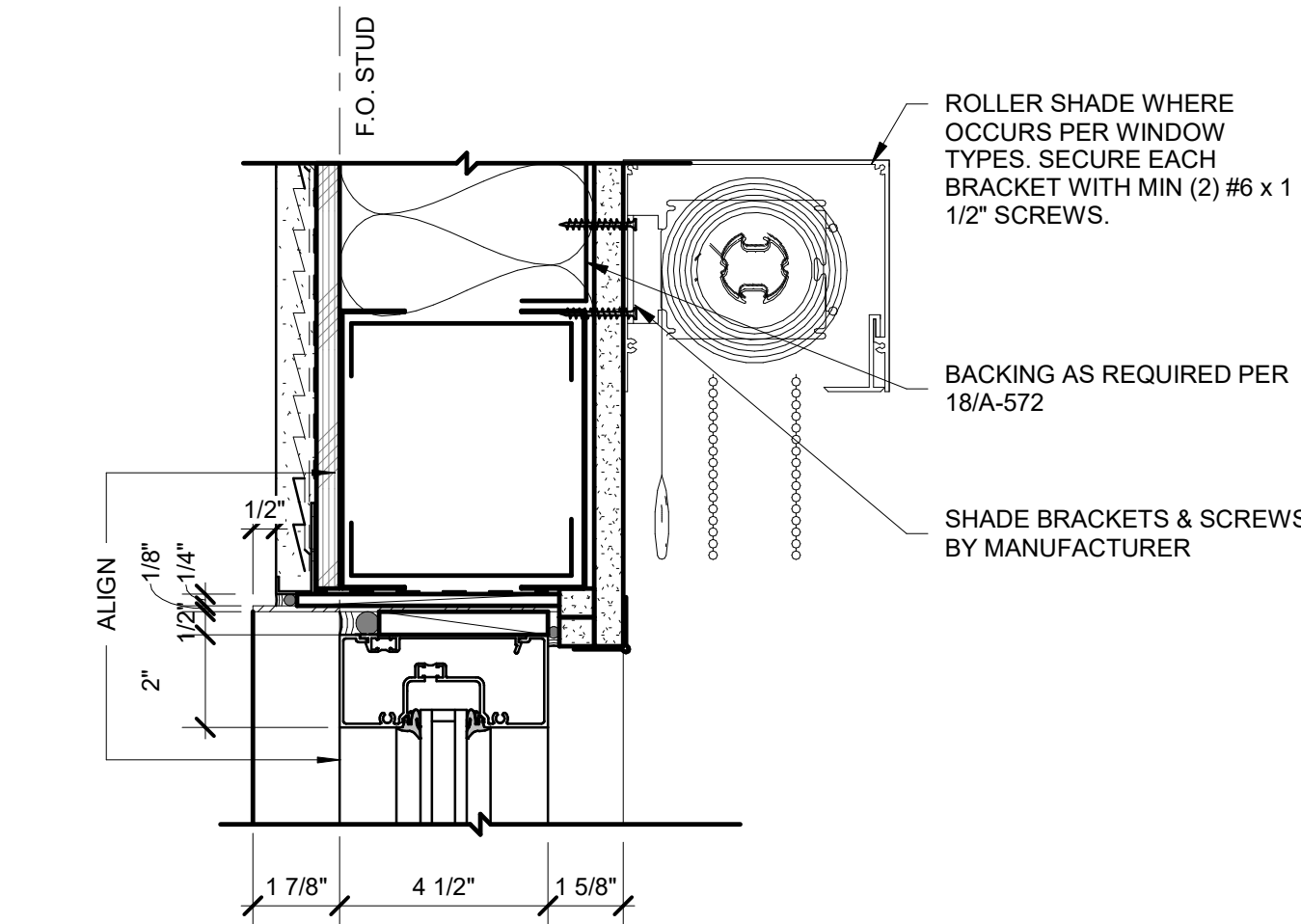
14 TYP HORIZONTAL MULLION
3" = 1'-0"



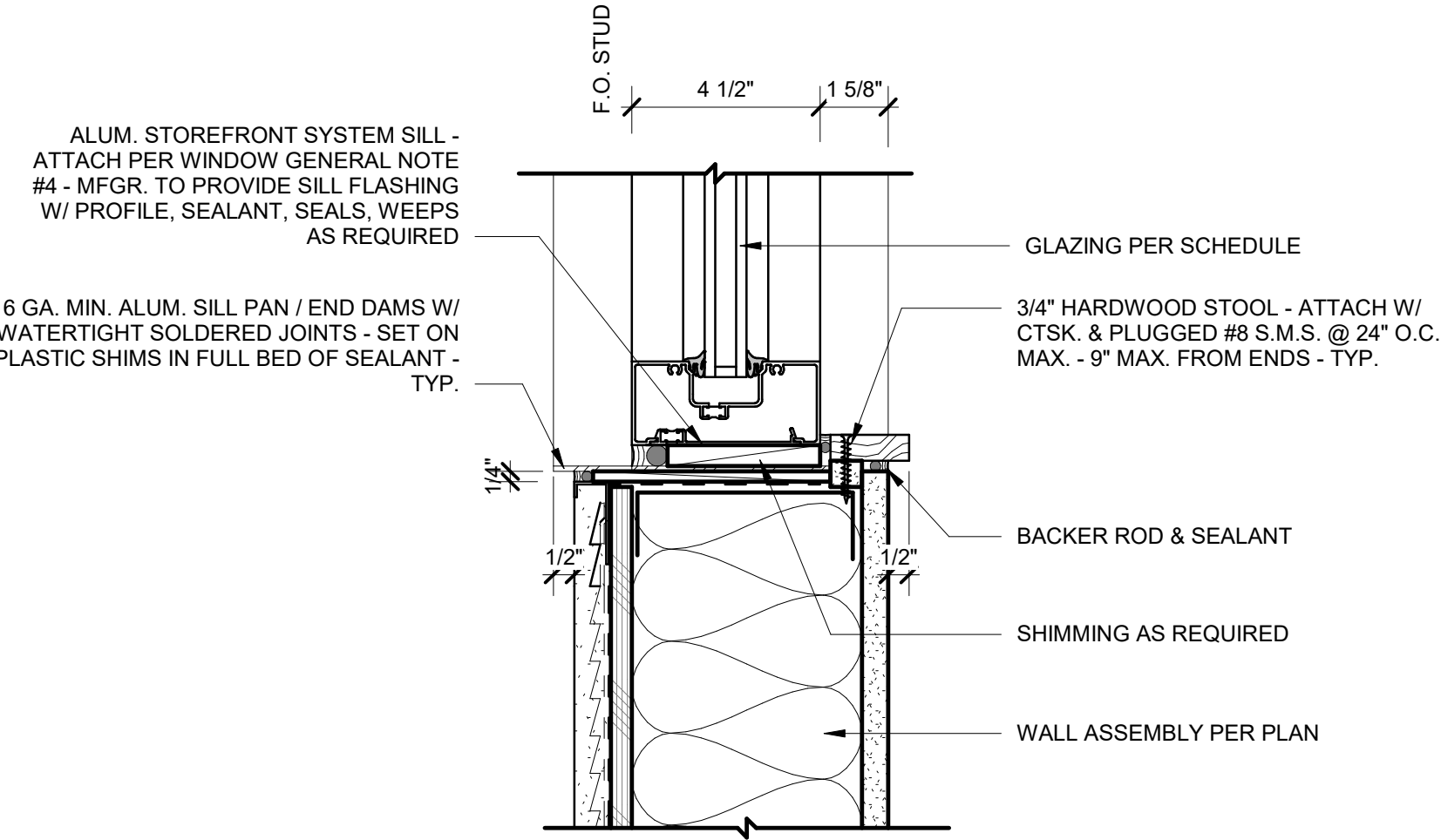
13 TYP VERTICAL MULLION
3" = 1'-0"



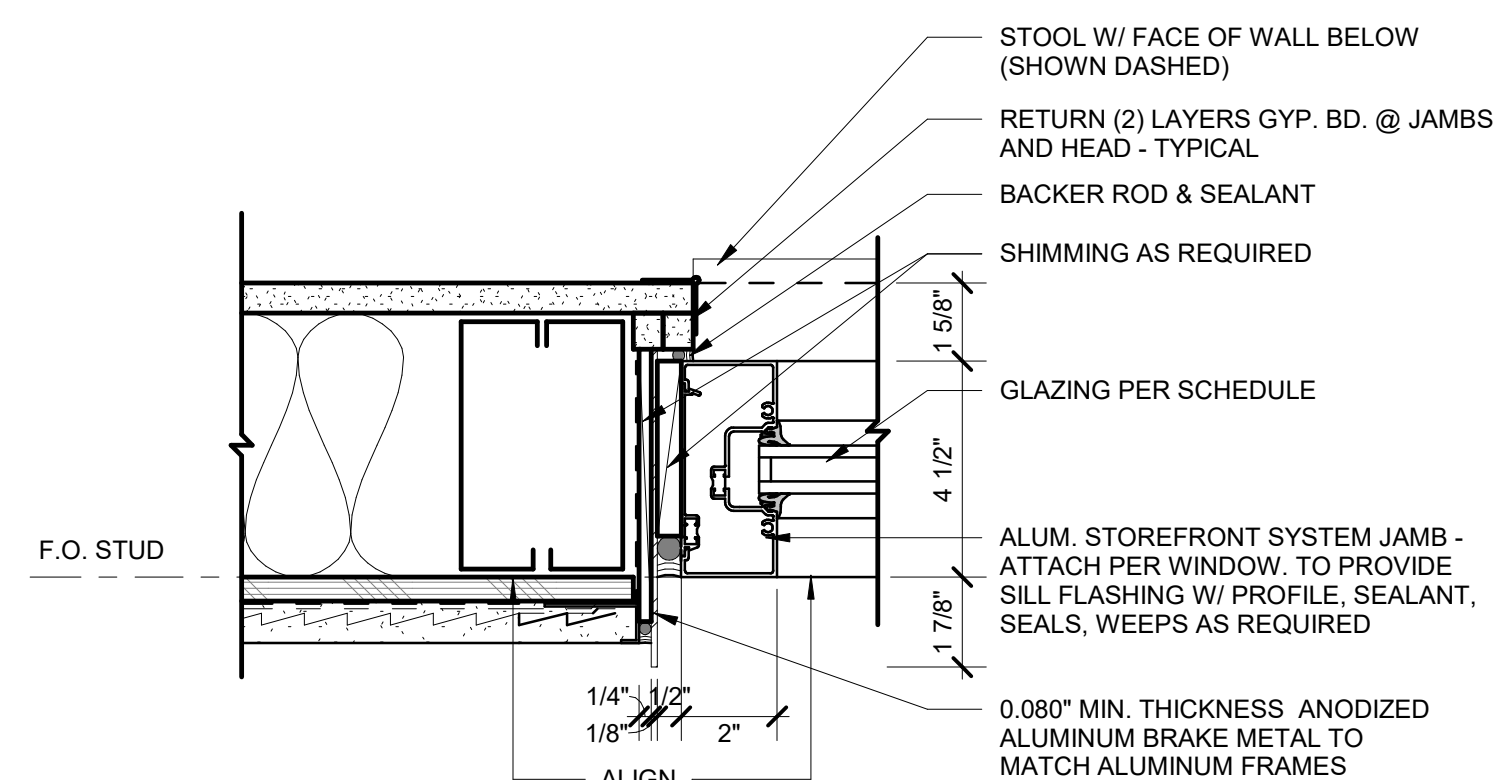
12 ALUM. STOREFRONT VERTICAL/CORNER MULLIONS
3" = 1'-0"



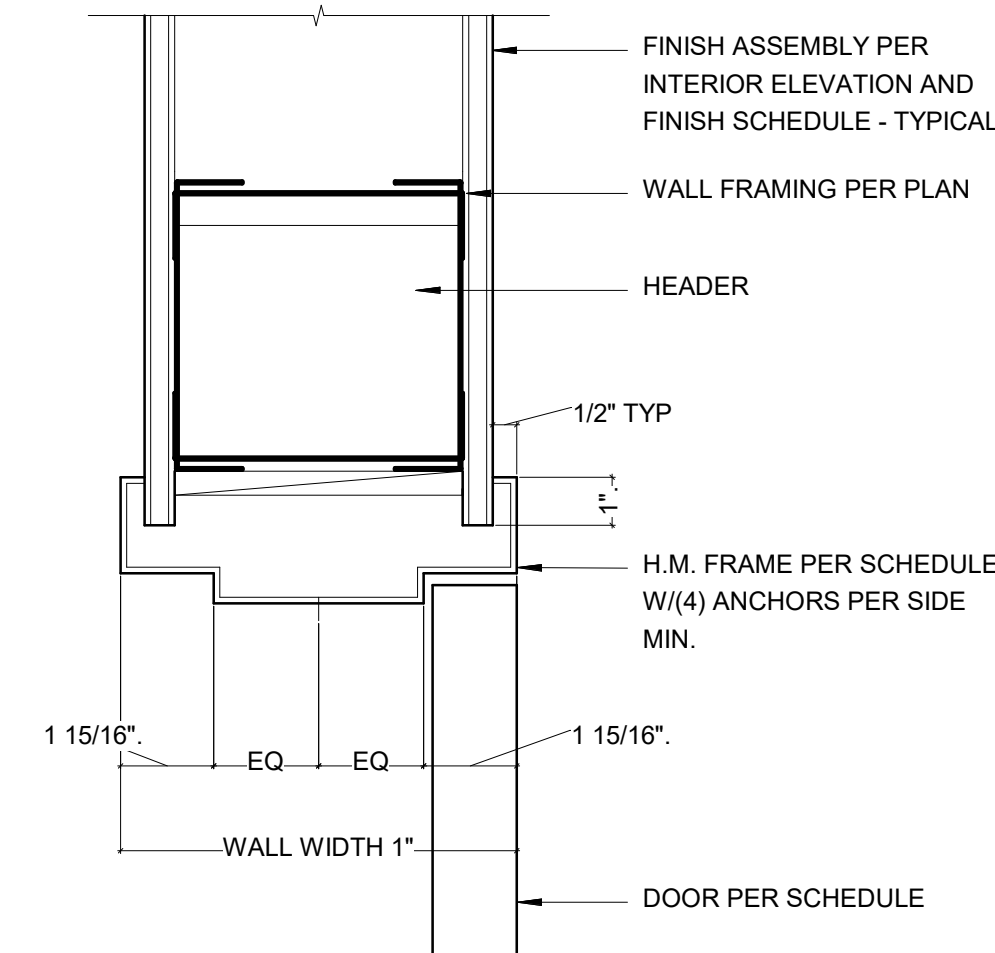
11 EXT. WINDOW HEAD
3" = 1'-0"



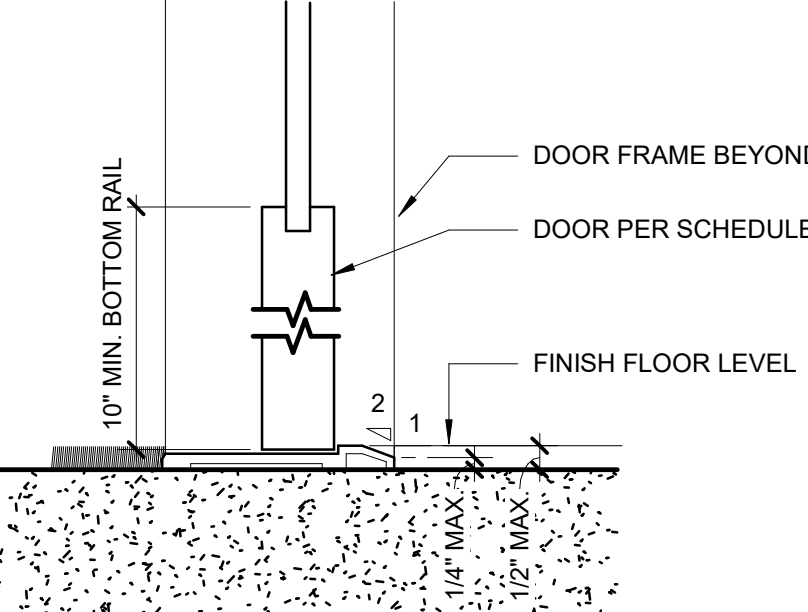
10 EXT WINDOW SILL
3" = 1'-0"



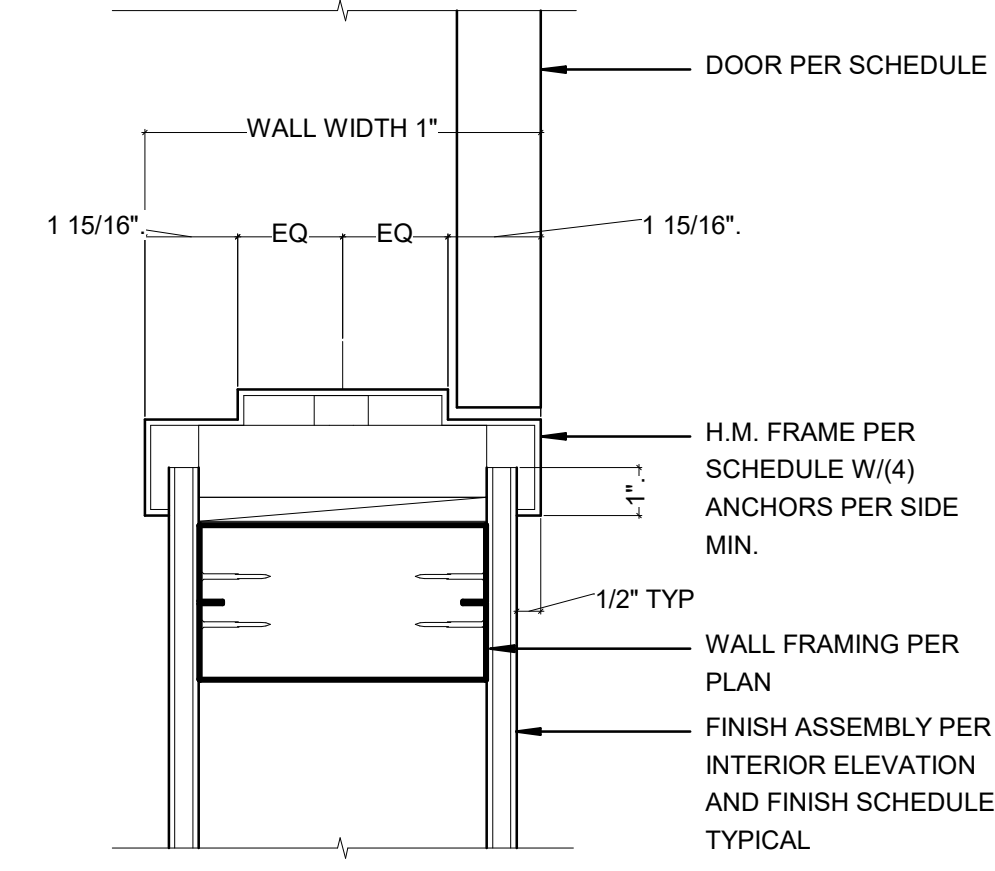
9 EXT. WINDOW JAMB
3" = 1'-0"



8 INTERIOR HOLLOW METAL DOOR HEAD
3" = 1'-0"



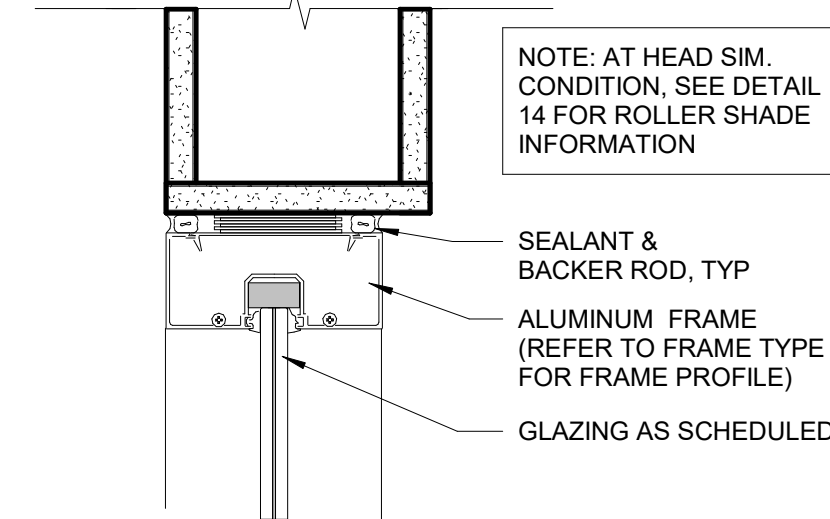
7 INTERIOR DOOR THRESHOLD
3" = 1'-0"



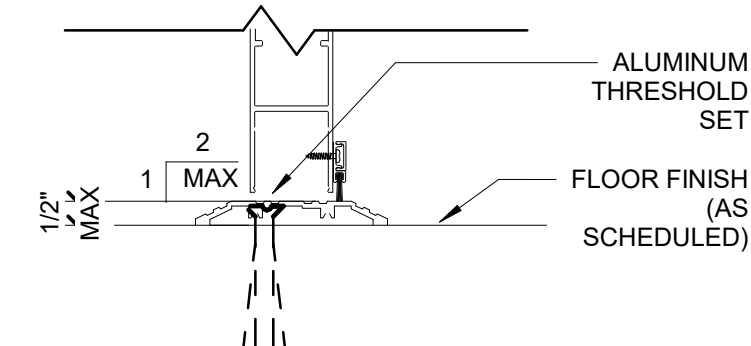
6 INTERIOR HOLLOW METAL DOOR JAMB
3" = 1'-0"

DOOR GENERAL NOTES

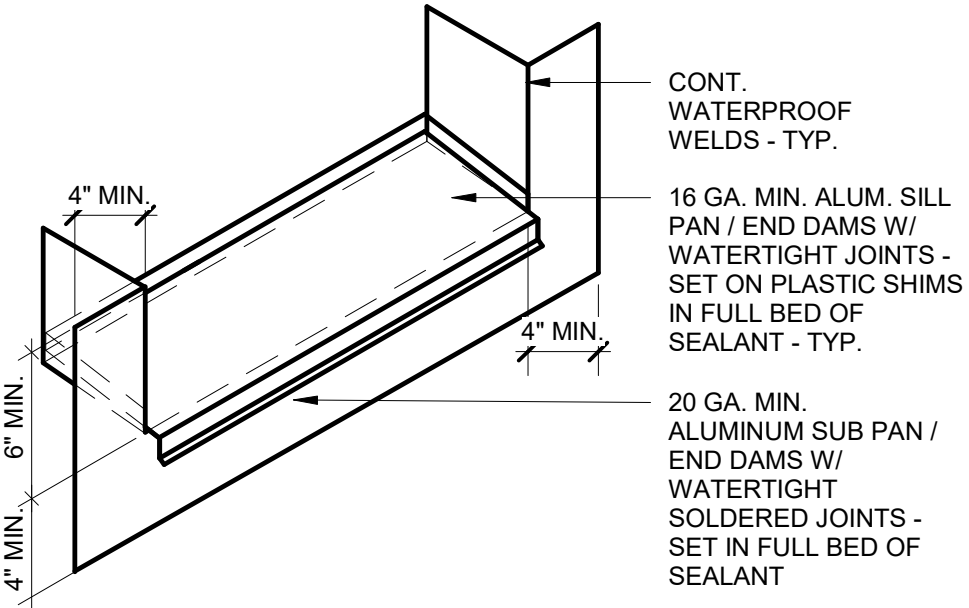
1. REFER TO DOOR SCHEDULE FOR TYPE AND FINISH OF DOOR PANELS AND FRAMES
2. FOR BULKHEAD FRAMING ABOVE STOREFRONT, SEE 12/A-S76



5 INTERIOR STOREFRONT JAMB (HEAD SIM.)
3" = 1'-0"

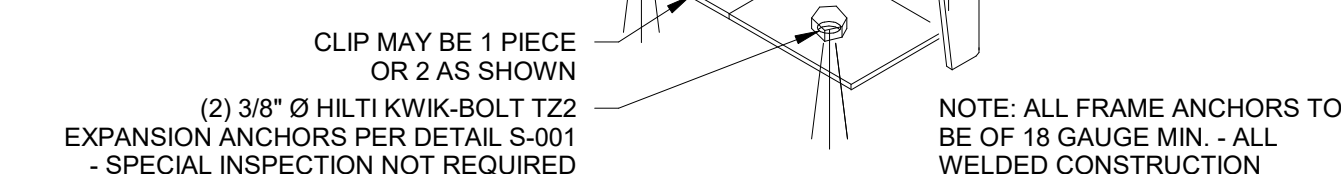


4 INTERIOR STOREFRONT DOOR SILL
3" = 1'-0"

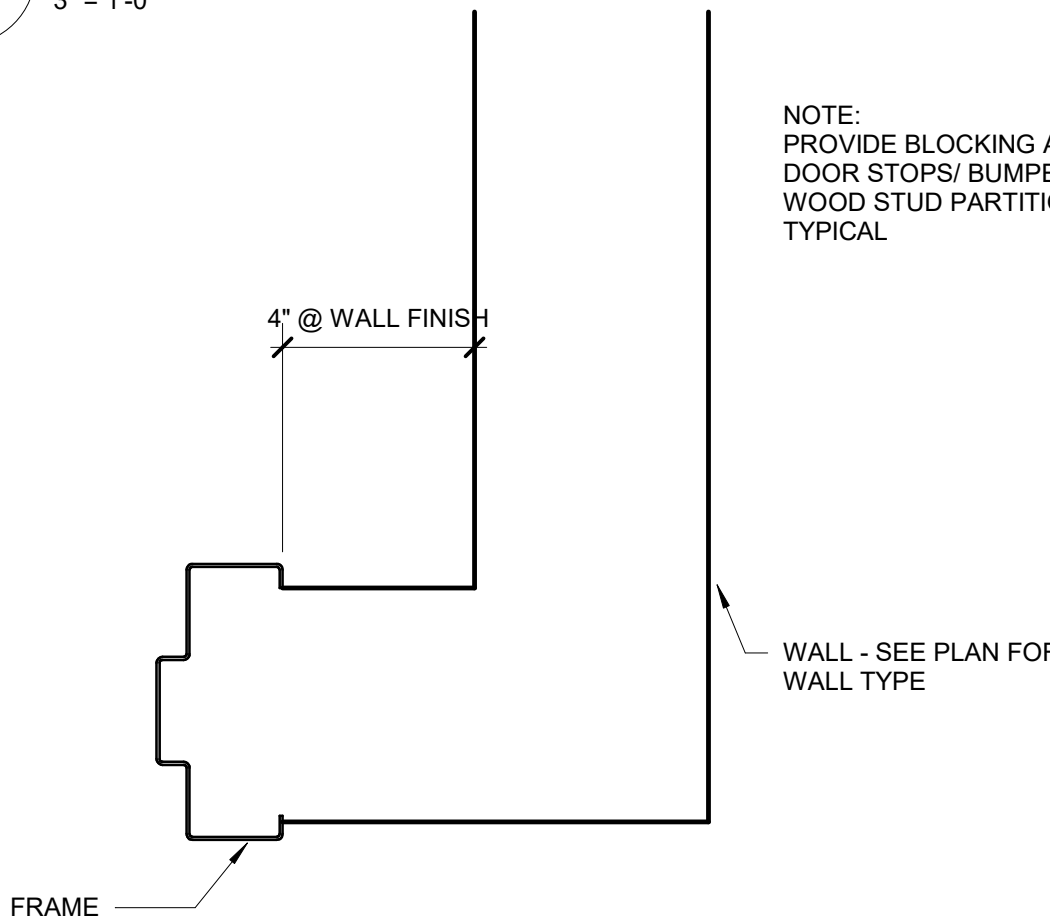


3 ISOMETRIC VIEW WINDOW SUB PAN & SILL PAN FLASHING ASSEMBLY
3" = 1'-0"

FRAME FLOOR ANCHOR



2 H.M. DOOR ANCHOR
3" = 1'-0"



1 TYPICAL DOOR LOCATION PLAN
3" = 1'-0"

San Rafael City Schools



310 Nova Albion Way, San Rafael, CA 94903

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320 Nova Albion Way, San Rafael, CA 94903

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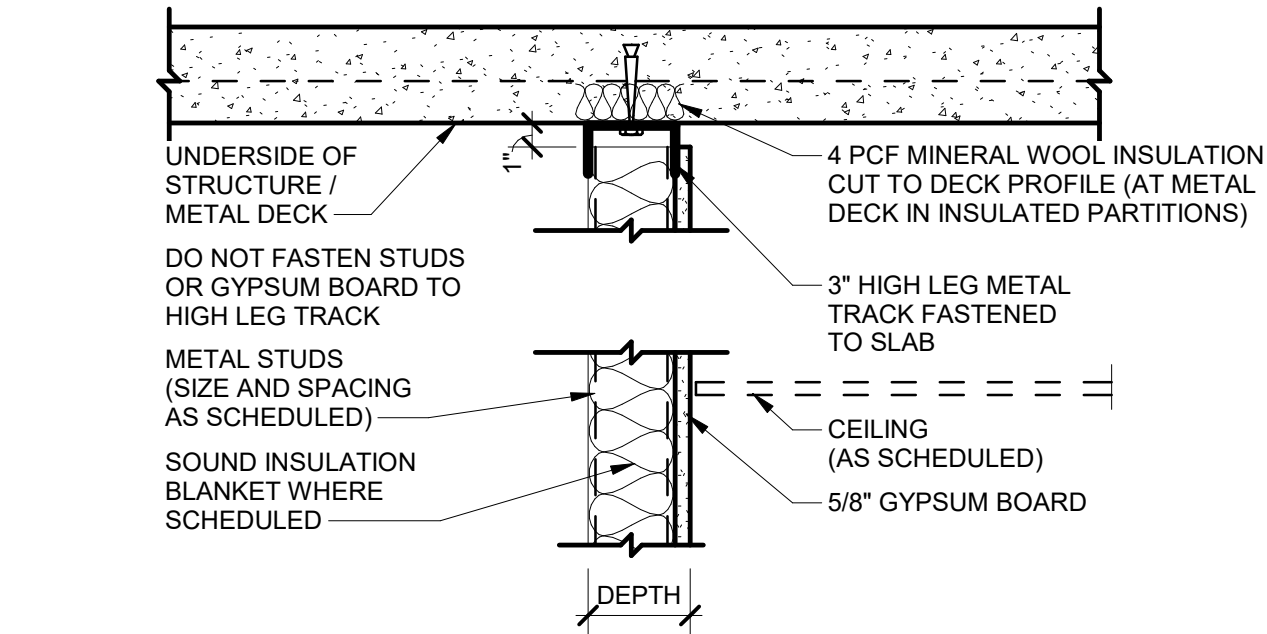
417 Montgomery Street
Suite 400
San Francisco, California
94104 USA

(415) 981-2345
WWW.HED.DESIGN

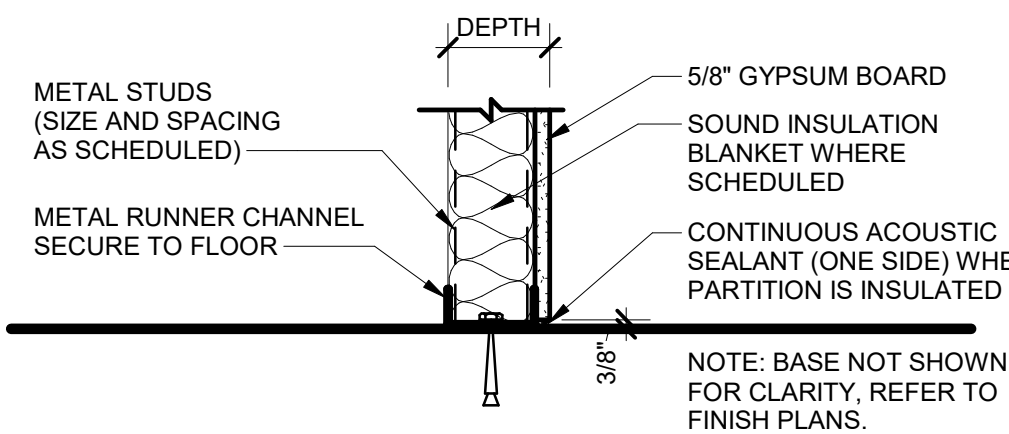
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Doors & Windows Details

A-551

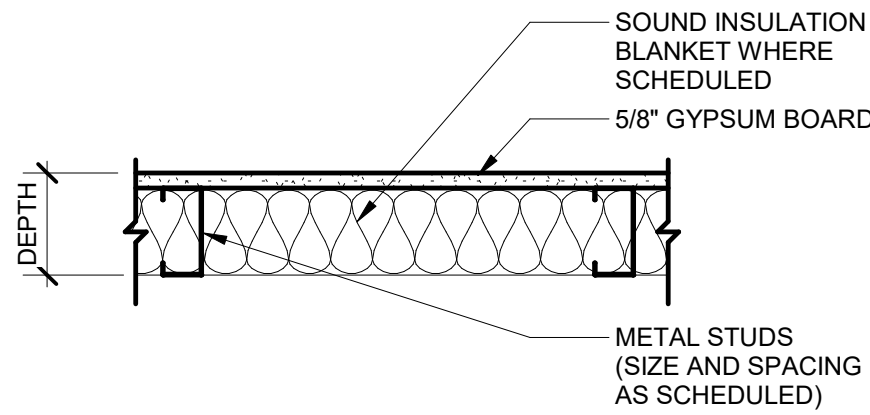


D
T01
1 1/2" = 1'-0"

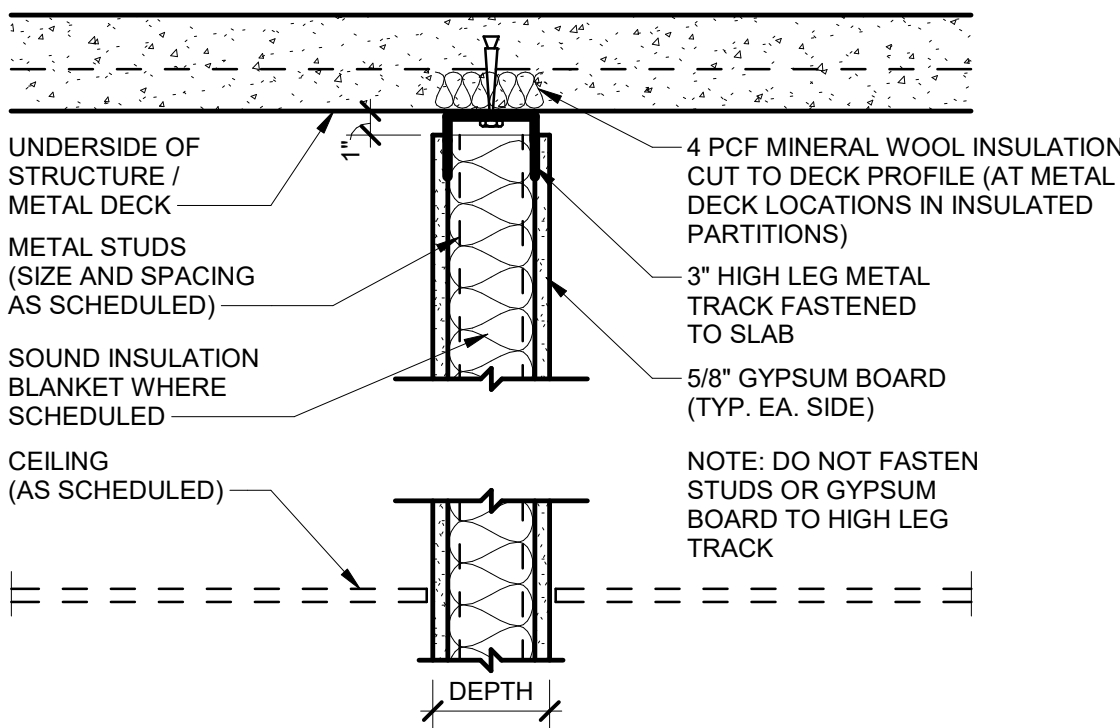


D
B01
1 1/2" = 1'-0"

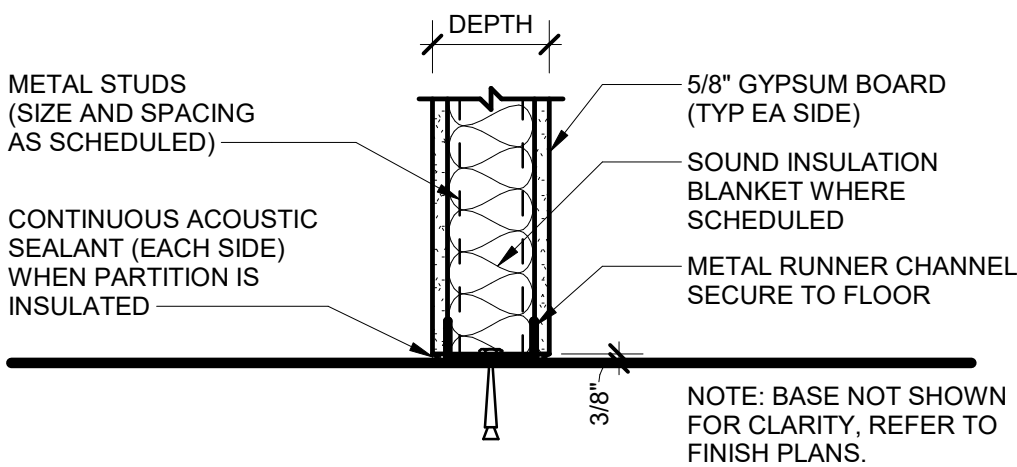
TYPE	DEPTH	FRAMING		DETAILS		INSUL THK	FIRE RATING
		WIDTH	SPACING (OC)	BOTTOM	TOP		
002	3 1/8"	2 1/2"	16"	B01	T01	0	
003	4 1/4"	3 5/8"	16"	B01	T01	0	
003A	4 1/4"	3 5/8"	16"	B01	T01	3 5/8"	0
006	6 5/8"	5 1/2"	16"	B01	T01	0	
006A	6 5/8"	5 1/2"	16"	B01	T01	6"	0



D
PARTITION D
1 1/2" = 1'-0"

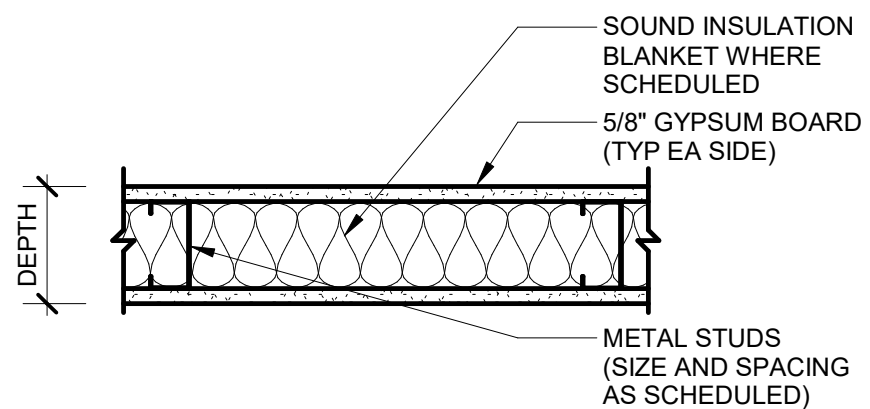


A
T01
1 1/2" = 1'-0"



A
B01
1 1/2" = 1'-0"

TYPE	DEPTH	FRAMING		DETAILS		INSUL THK	FIRE RATING
		WIDTH	SPACING (OC)	BOTTOM	TOP		
0A3A	4 3/4"	3 5/8"	16"	B01	T01	3 5/8"	0
0A6A	<varies>	<varies>	<varies>	<varies>	<varies>	<varies>	<varies>
1A6A	6"						



A
PARTITION A
1 1/2" = 1'-0"

PARTITION NOTES

1. PROVIDE NON-COMPOSITE METAL FRAMING ASSEMBLIES OF METAL STUD DEPTH AND SPACING AS INDICATED FOR PROJECT SPECIFIC SPANS MEETING AN ALLOWABLE DEFLECTION OF L/240 WITH LATERAL LOAD OF AT LEAST 5 PSF FOR LIMITING HEIGHTS. PROVIDE 20 GA. STUDS (MINIMUM), PROVIDE HEAVIER GAUGE AND/OR WIDER FLANGE WIDTH TO MEET STATED PERFORMANCE REQUIREMENTS FOR LIMITING HEIGHTS. COMPLY WITH METAL FRAMING MANUFACTURER'S REQUIREMENTS FOR BRACING STUD FLANGES AND PROVIDING HORIZONTAL BRIDGING AT 48" O.C. MAXIMUM VERTICAL SPACING.
2. TO THE EXTENT POSSIBLE, FIRE RATED WALLS SHALL BE COMPLETELY AND CONTINUOUSLY CONSTRUCTED FIRST (EXCEPT FOR FINAL FINISH), WITH OTHER NON-RATED WALLS CONSTRUCTED TO THEM.
3. FIRE RATED WALLS EXTEND FULL HEIGHT TO STRUCTURE ABOVE AND SEAL TO DECK UNLESS DETAILED OTHERWISE.
4. USE GALVANIZED CORNER BEADS AND EDGE TRIM IN EXPOSED WORK.
5. MOVEMENT CONTROL:
 - A. PROVIDE FOR VERTICAL MOVEMENT AT THE HEAD OF CONSTRUCTION AS INDICATED IN THE NOTES AND DETAILS ON THE DRAWINGS. CONNECT HEAD RUNNER CHANNEL TO THE UNDERSIDE OF STRUCTURE AS INDICATED ON THE DRAWINGS. CUT STUDS SHORT TO ALLOW FOR VERTICAL MOVEMENT IN ACCORDANCE WITH NOTE BELOW, AND DO NOT FASTEN TO HEAD RUNNER CHANNEL. FASTEN GYPSUM BOARD TO STUDS ONLY.
 - B. ALLOW FOR A MIN OF 1" VERTICAL MOVEMENT FOR PARTITIONS BELOW SLABS, BEAMS OR TRUSSES.
 - C. ALLOW FOR 3/4" RACKING OF PARTITIONS BUILT NEXT TO VERTICAL ELEMENTS (i.e. COLUMNS, WALLS, EXTERIOR WALLS).
6. PROVIDE ABUSE RESISTANT GYPSUM BOARD AT STAIR SIDES OF STAIR ENCLOSURE PARTITIONS..
7. SOUND CONTROL:
 - A. SEAL OPENINGS AT OUTLETS, SWITCHES, MECHANICAL OPENINGS AND PERIMETER CONDITIONS WITH ACOUSTIC SEALANT.
 - B. PROVIDE SOUND ATTENUATION BLANKETS WHERE INDICATED.
8. PENETRATIONS AT SMOKE AND FIRE RATED ASSEMBLIES SHALL BE PROTECTED, SEALED AND DAMPERED, USING UL OR OTHER AHJ APPROVED METHODS, MATERIALS AND INSTALLATION, AS REQUIRED TO MAINTAIN THE ASSEMBLY'S RATING AND SMOKE RESISTANT REQUIREMENTS. ALL MATERIALS AND INSTALLATION DETAILS SHALL CONFORM TO UL LISTINGS FOR "THROUGH-PENETRATION FIRE STOP SYSTEMS" WHERE APPLICABLE. CONTRACTOR SHALL SUBMIT SHOP DRAWING DETAILS, FURNISHED BY THE MANUFACTURER, OF THE FIRE STOP MATERIAL, THAT SHOW COMPLETE CONFORMANCE TO THE UL LISTING AND SUCH DRAWINGS SHALL BE AVAILABLE TO AHJ INSPECTORS. THE DRAWINGS SHALL BE SPECIFIC FOR EACH PENETRATION TYPE.
9. WHERE IDENTIFIED ON DRAWINGS, SMOKE BARRIERS/PARTITIONS SHALL BE CONTINUOUS FROM INSIDE FACE OF SHEATHING OF OUTSIDE WALLS, FROM FIRE BARRIER TO FIRE BARRIER, FROM SMOKE BARRIER TO SMOKE BARRIER AND FROM FLOOR SLAB TO FLOOR OR ROOF SLAB ABOVE, THEREBY PROVIDING CONTINUITY THROUGH ALL CONCEALED SPACES. COMPLETELY SEAL ALL OPENINGS WHERE THE SMOKE BARRIER ABUTS OTHER SMOKE BARRIERS, FIRE BARRIERS, EXTERIOR WALLS, THE FLOOR BELOW AND THE FLOOR OR CEILING ABOVE.
10. LIGHT GAUGE METAL FRAMING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ASTM 754 "STANDARD SPECIFICATIONS FOR INSTALLATION OF STEEL FRAMING MEMBERS".
11. WALL TYPES SHOW BASE WALL CONSTRUCTION. BASE, TILE, WOOD PANELING / TRIM, ACOUSTICAL PANELS, ETC. MAY OCCUR AS SCHEDULED OR DETAILED ELSEWHERE.
12. AT FULL- HEIGHT PARTITIONS WHERE DUCTWORK OR OTHER OBSTACLES PREVENT EXTENSION OF ALL STUDS TO DECK, FRAME STUDS AROUND OBSTACLES WITH HEADERS AND BRACING AS NECESSARY. PROVIDE DOUBLED STUDS AT ENDS OF OPENINGS TO DECK ABOVE..
13. LOCATE VERTICAL CONTROL JOINTS AT 30'-0" O.C.(MAX.) OR AS SHOWN ON PLANS OR NOTED AS "C-J" ON ELEVATIONS. CONFIRM CONTROL JOINT LOCATIONS WITH ARCHITECT PRIOR TO FRAMING.
14. PROVIDE 5/8" CEMENTITIOUS BACKER BOARD AT TILE (REFER TO ROOM FINISH PLANS/SCHEDULES FOR LOCATIONS AND HEIGHT). AT CONTRACTOR'S OPTION, PROVIDE 5/8" FIBERGLASS MAT TILE BACKER BOARD AT PARTITIONS SCHEDULED TO RECEIVE TILE IN NON-WET AREAS, SHOWER AREAS AND AREAS WITH TERRAZZO BASE TO RECEIVE CEMENTITIOUS BACKER BOARD ONLY.
15. GYPSUM BOARD FINISH TO BE LEVEL 4 UON.

PARTITION TYPES - NAMING

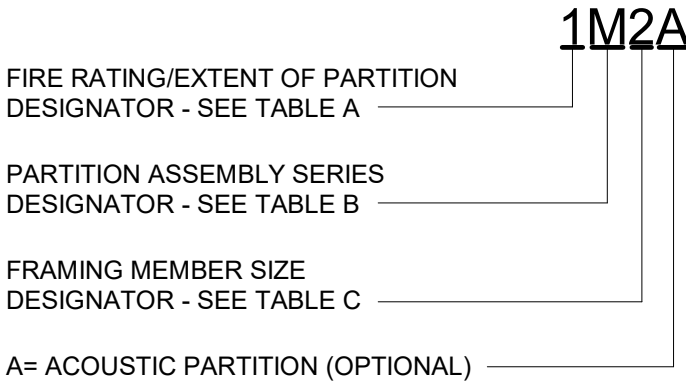


TABLE A - RATING/EXTENT OF PARTITION

DES.	CONDITION
0	NON-RATED, FULL-HEIGHT, BOTTOM 01/TOP 01
1, 2, 3	RATING IN HOURS, FULL HEIGHT, BOTTOM 02/TOP 02
C	FINISH 0' ABOVE CEILING, BOTTOM 01/TOP 03
U	PARTITION UNDER CEILING, BOTTOM 01/TOP 07
B	SMOKE BARRIER, 1 HOUR RATED
P	SMOKE PARTITION, NON-RATED
H	PARTIAL HEIGHT PARTITION BOTTOM 10/TOP 10

TABLE B - PARTITION ASSEMBLY SERIES

TYPE	SHEATHING	FRAMING	SHEATHING
A	1 LAYER	MTL C-STUD	1 LAYER
D	1 LAYER	MTL C-STUD	NONE

TABLE C - FRAMING MEMBER SIZE

DES.	MTL STUD WIDTH	MTL C-H STUD WIDTH (NOM)
		NO FRAMING
0	7/8" HAT CH	
1	1 1/2" HAT CH	
2	2 1/2"	2 1/2"
3	3 5/8"	3 5/8"
4	4"	4"
6	6"	6"
8	8"	8"

San Rafael City Schools



310 Nova Albion Way, San Rafael, CA 94903

SRCS Wellness & Restroom Modernization

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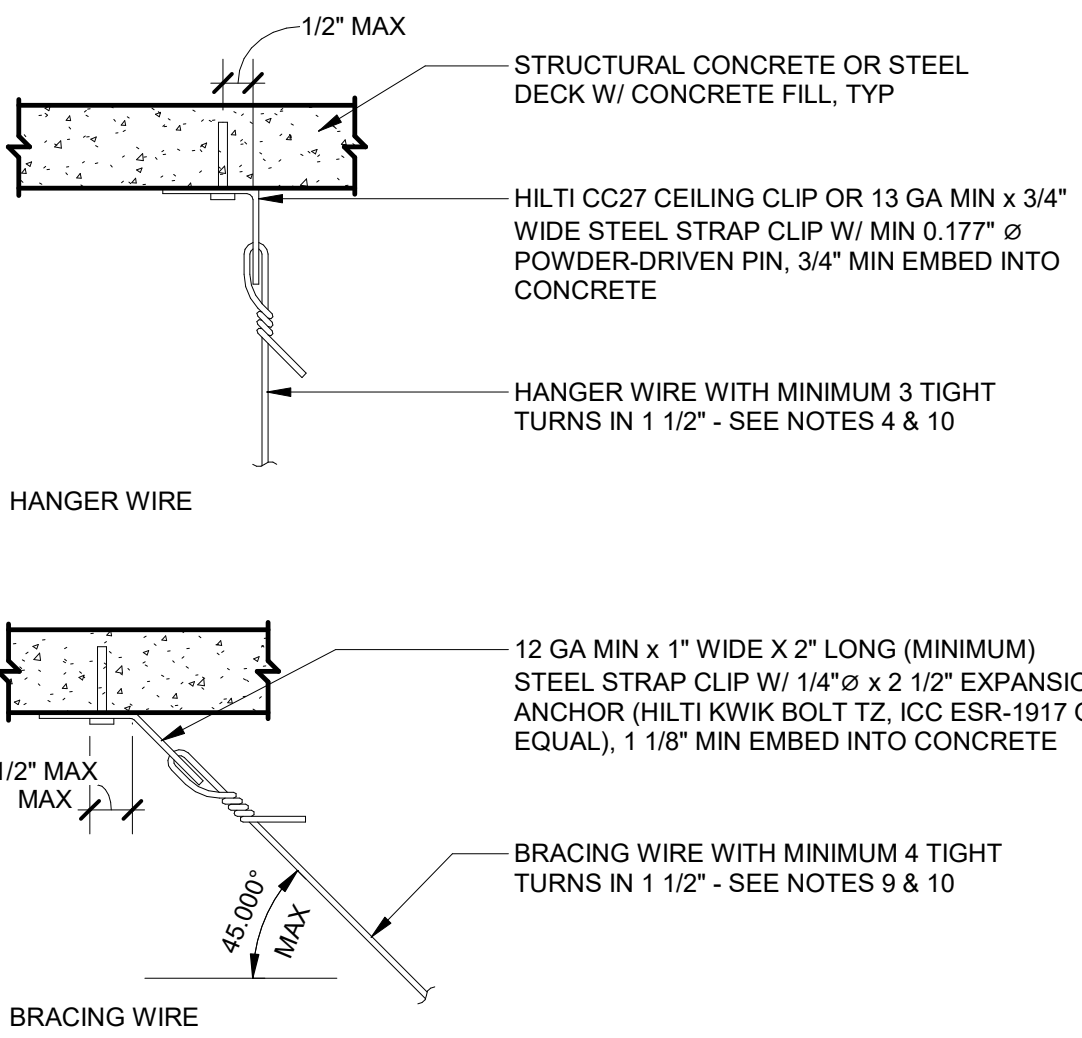
417 Montgomery Street
Suite 400
San Francisco, California
94104 USA

(415) 981-2345
WWW.HED.DESIGN

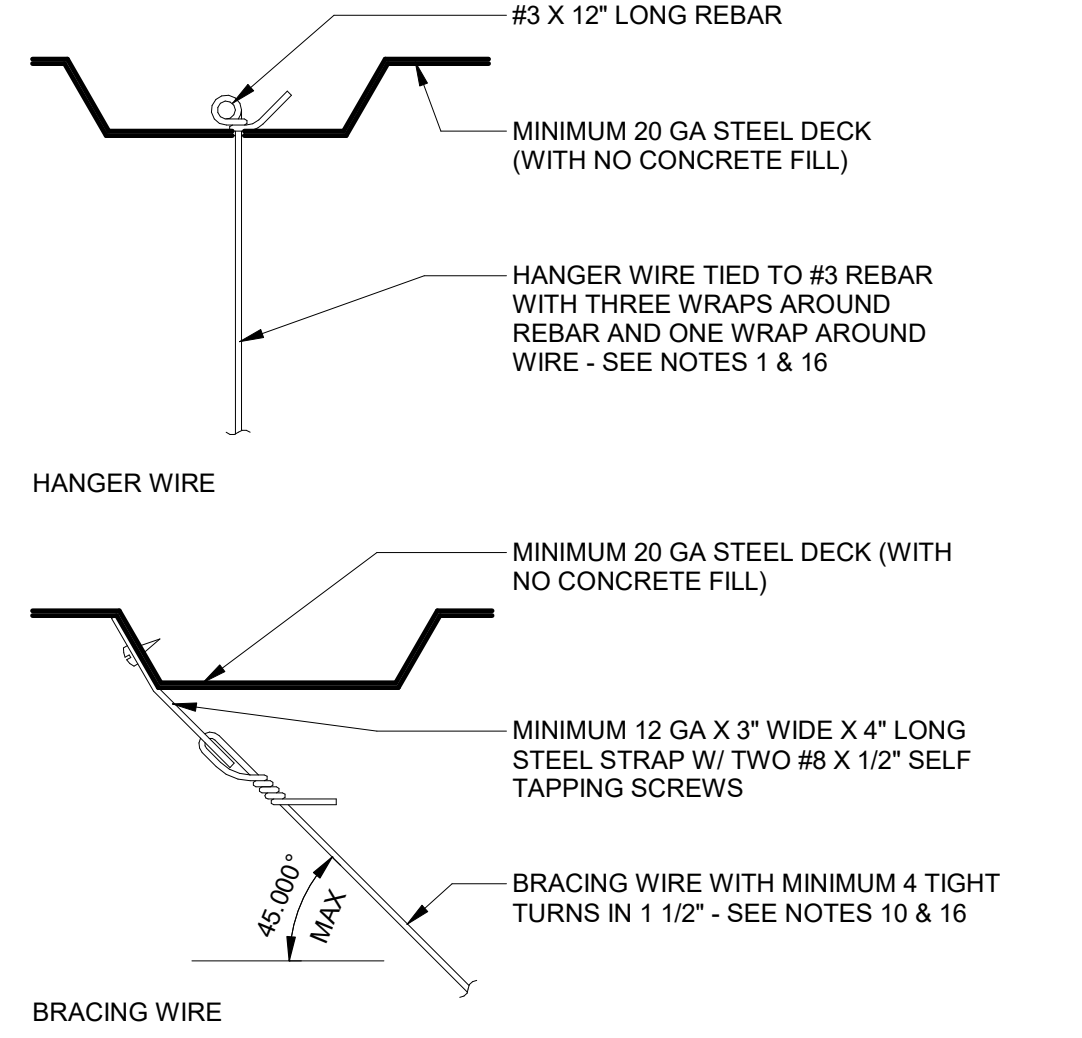
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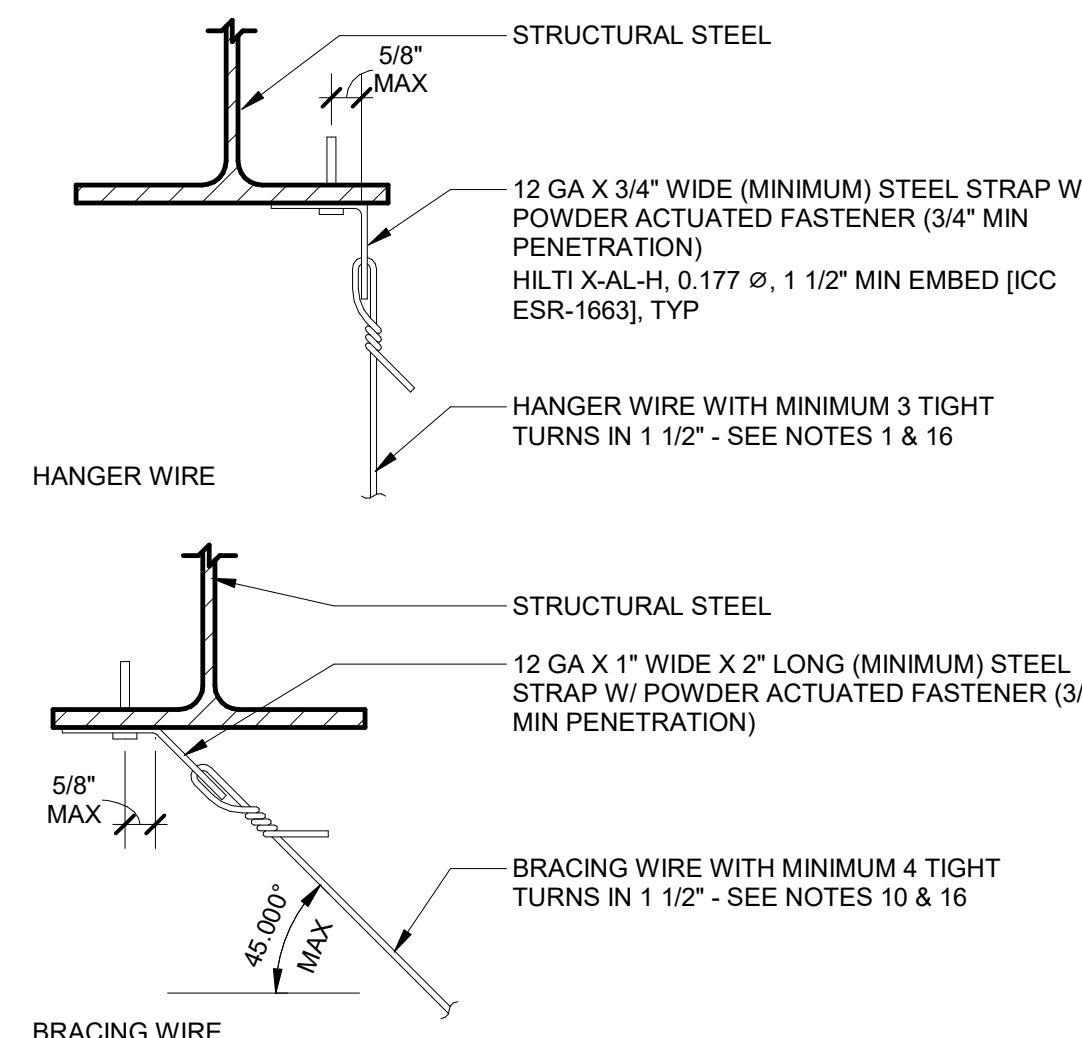
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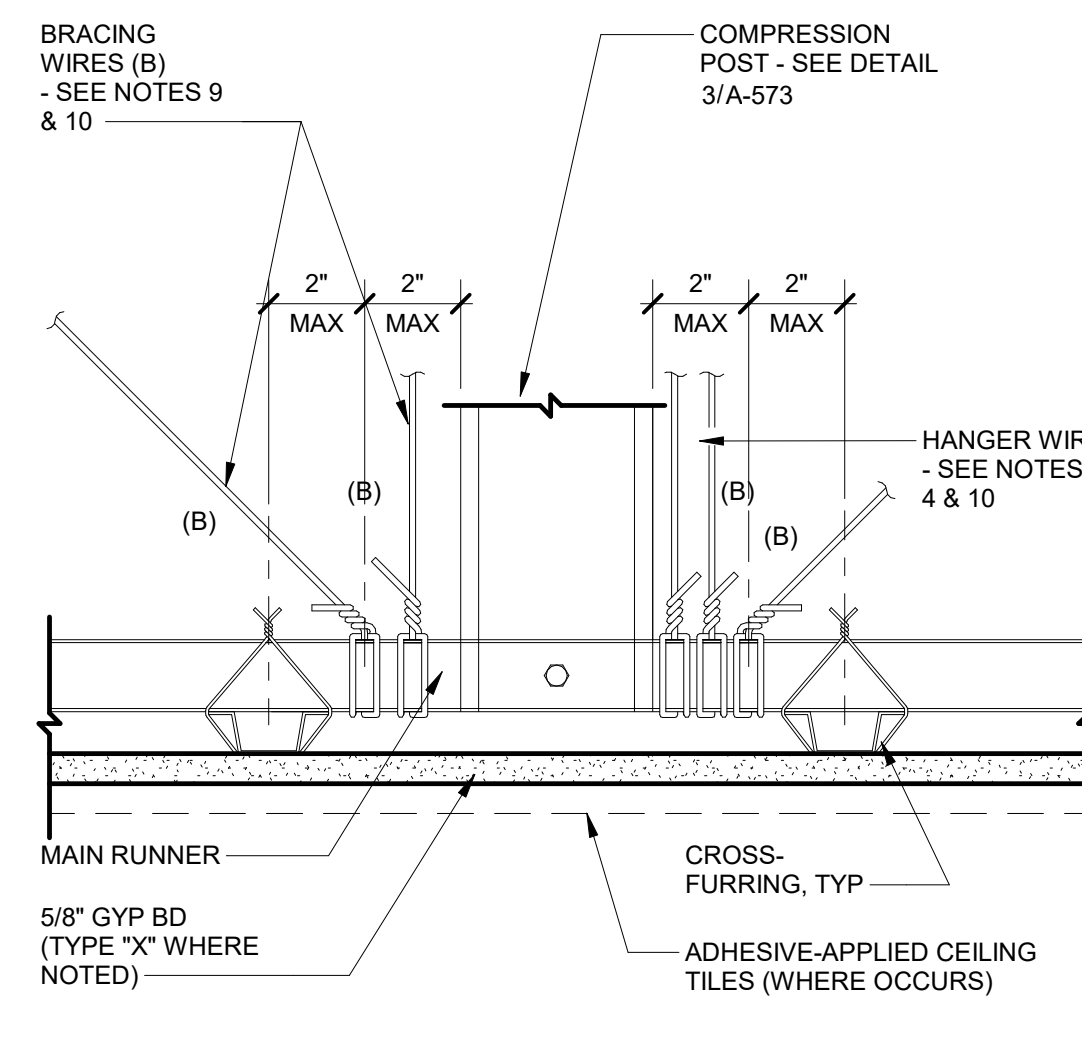
9
3" = 1'-0"



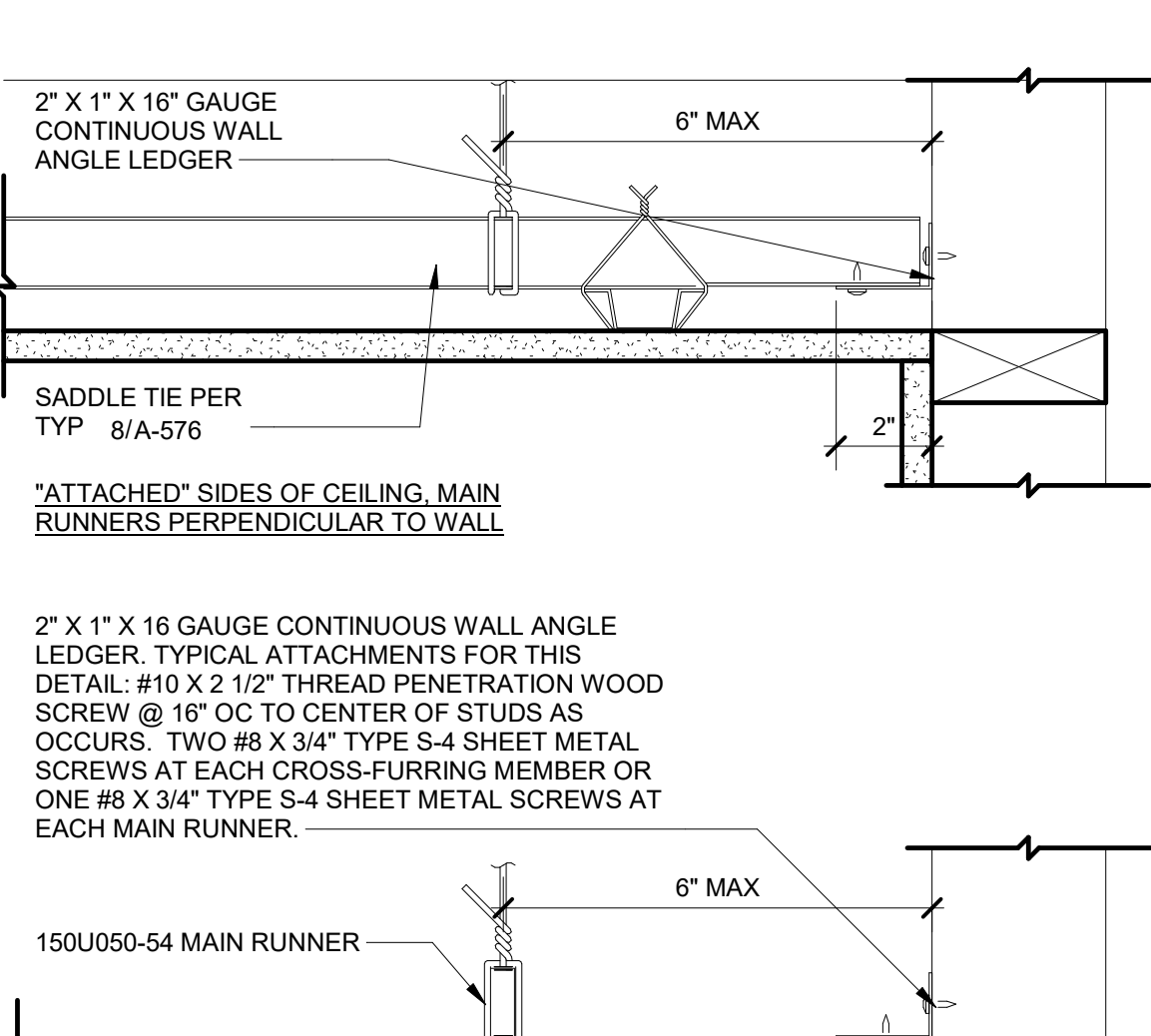
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3" = 1'-0"



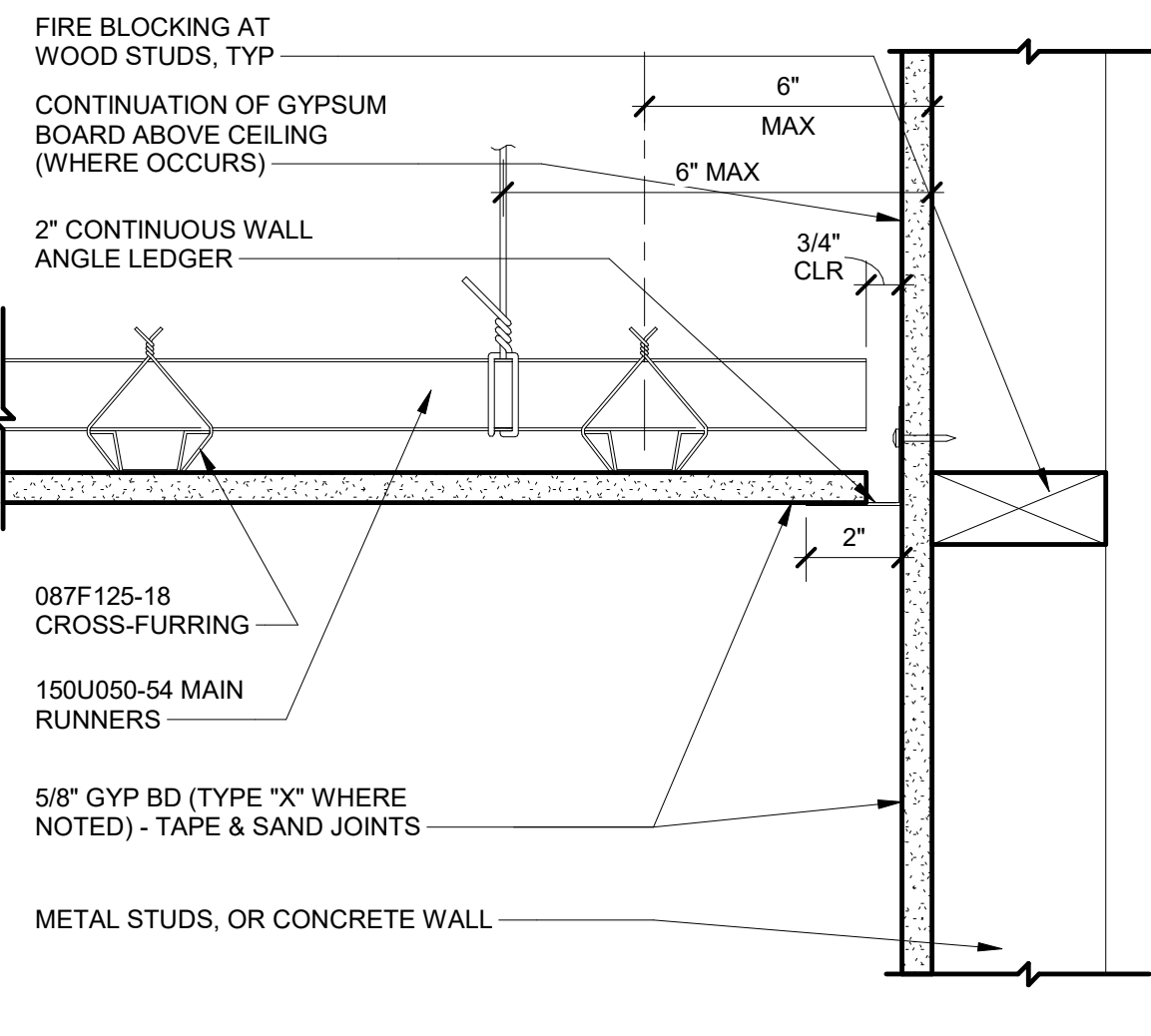
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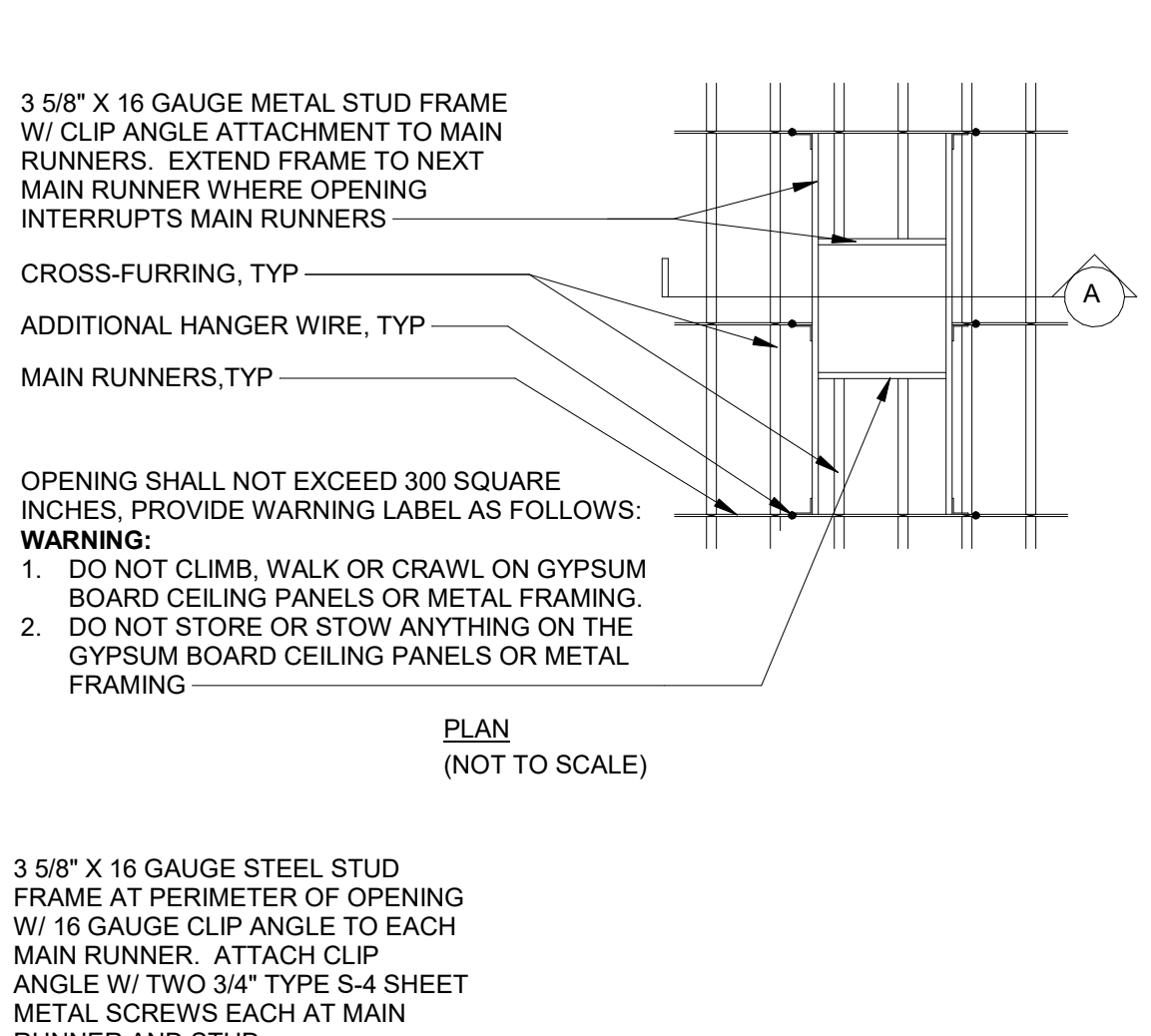
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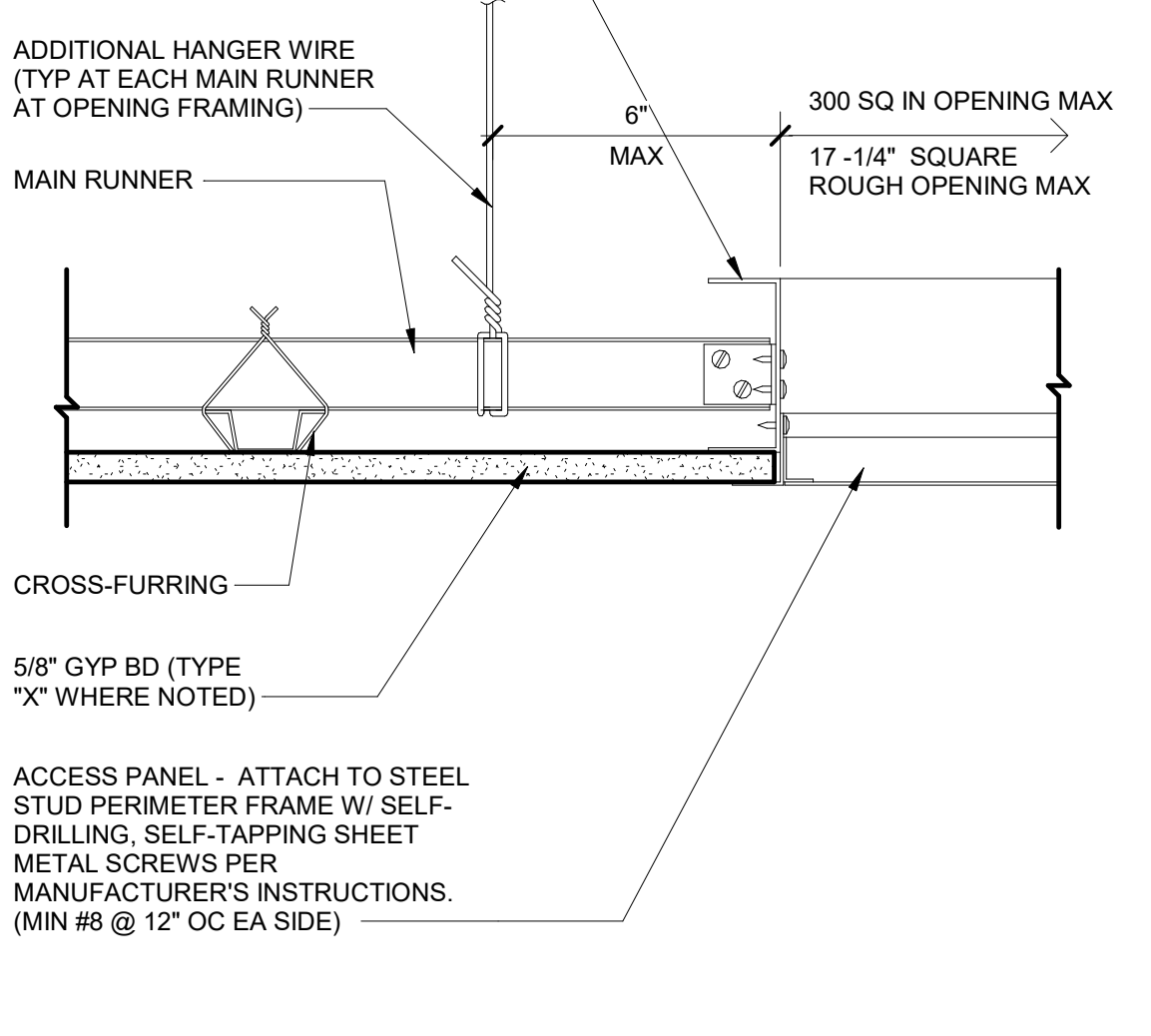
5
3" = 1'-0"



4
3" = 1'-0"

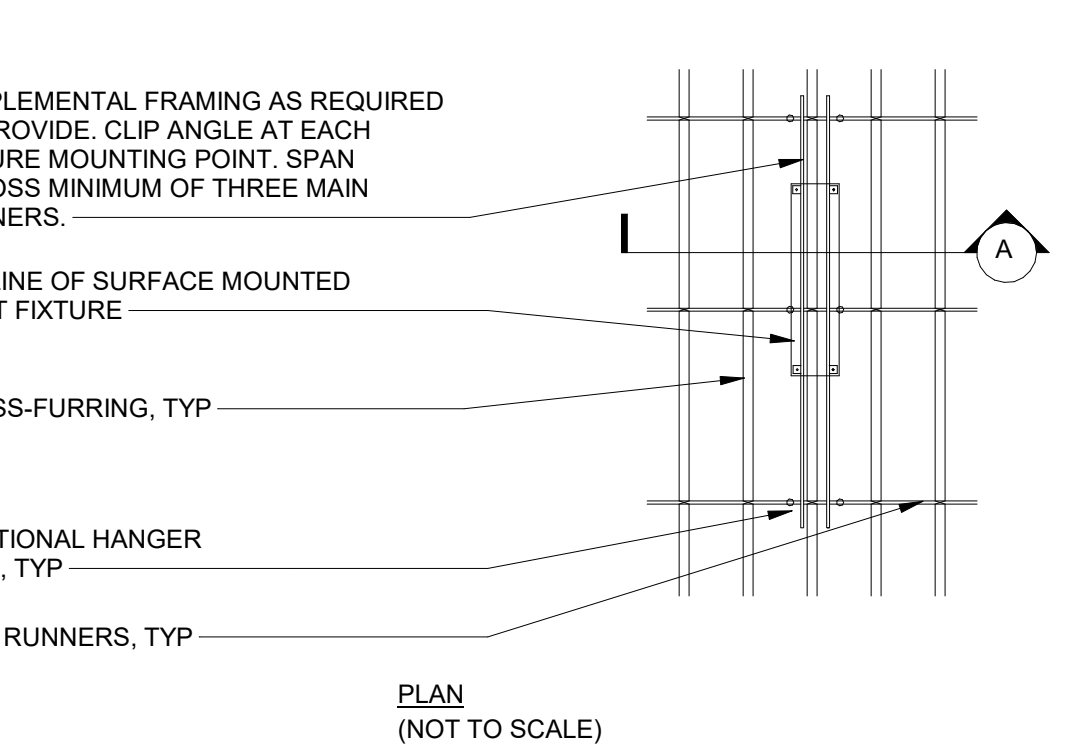


3
3" = 1'-0"



2
3" = 1'-0"

PANELS SHALL HAVE A PERMANENTLY ATTACHED WARNING LABEL AS FOLLOWS:
"WARNING:
1. DO NOT CLIMB, WALK, OR CRAWL ON THE GYPSUM BOARD CEILING PANELS OR METAL FRAMING.
2. DO NOT STORE OR STOW ANYTHING ON THE GYPSUM BOARD CEILING PANELS OR METAL FRAMING."
PER CBC 1209.2 AN ATTIC ACCESS OPENING NOT LESS THAN 20 INCHES BY 30 INCHES SHALL BE PROVIDED TO ANY ATTIC AREA HAVING A CLEAR HEIGHT OF OVER 30 INCHES. CLEAR HEADROOM OF NOT LESS THAN 30 INCHES SHALL BE PROVIDED IN THE ATTIC SPACE AT OR ABOVE THE ACCESS OPENING.



SUSPENDED GYPSUM BOARD CEILING NOTES PER DSA IR 25-3.13

THE DESIGN AND INSTALLATION OF SUSPENDED GYPSUM BOARD CEILING SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS CONTAINED IN PART 2, CALIFORNIA BUILDING CODE 2016, AND WITH THE FOLLOWING ADDITIONAL REQUIREMENTS AS NOTED:

CBC 1616A.1.20, CALIFORNIA BUILDING CODE (PART 2, TITLE 24, CALIFORNIA CODE OF REGULATIONS) FOR SUSPENDED CEILING SYSTEMS IN PUBLIC SCHOOL BUILDINGS DIVISION OF THE STATE ARCHITECT. INTERPRETATION OF REGULATIONS DOCUMENT IR 25-3.13 (DATED 04-08-2014) DEVIATIONS OR SPECIAL SITUATIONS NOT ADDRESSED BY THESE NOTES REQUIRE REVIEW AND APPROVAL BY THE DIVISION OF THE STATE ARCHITECT (DSA) FOR PUBLIC SCHOOL BUILDINGS.

1. MATERIALS:
MATERIALS ARE TO COMPLY WITH CBC SECTION 2508 AND APPLICABLE ASTM STANDARDS. GYPSUM WALLBOARD IS EITHER 1/2 INCH OR 5/8 INCH IN THICKNESS. COLD-FORMED STEEL SECTIONS SPECIFIED IN THIS IR ARE IDENTIFIED BY A PRODUCT DESIGNATOR WHICH HAS BEEN STANDARDIZED BY THE AMERICAN IRON AND STEEL INSTITUTE (AISI) IN COLLABORATION WITH THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA).

2. DESIGN:
THE PRESCRIPTIVE REQUIREMENTS OF THIS IR SHALL BE TAKEN AS THE MINIMUM REQUIREMENTS AND APPLIED TO CEILING THAT IS NOT ACCESSIBLE. HAS A SINGLE LAYER OF GYPSUM BOARD NOT EXCEEDING 5/8" THICK, AND HAS A TOTAL CEILING WEIGHT NOT TO EXCEED FOUR (4) POUNDS PER SQUARE FOOT (PSF). A CEILING THAT IS REQUIRED BY COR TITLE 24 TO BE ACCESSIBLE, OR OTHERWISE DOES NOT MEET THESE LIMITATIONS, SHALL BE DESIGNED TO MEET THE APPLICABLE REQUIREMENTS OF CBC SECTIONS 1607A AND 2508.1, AND ASCE 7-10, SECTION 13.3.1.

3. DETAILS OF CONSTRUCTION:
3.1 GENERAL. GYPSUM BOARD CEILINGS SHALL NOT SUPPORT BUILDING COMPONENTS OTHER THAN AIR CONDITIONING HEATING GRILLS OR LIGHT FIXTURES. ALL SUCH COMPONENTS SHALL BE SUPPORTED EITHER DIRECTLY FROM MAIN RUNNERS, OR BY SUPPLEMENTAL FRAMING WHICH IS SUPPORTED BY MAIN RUNNERS. NO VERTICAL LOADS OTHER THAN GYPSUM BOARD DEAD LOAD SHALL BE APPLIED TO CROSS-FURRING.

3.2 VERTICAL SUPPORT SYSTEM. THERE ARE MANY POSSIBLE VARIATIONS OF MAIN RUNNER SIZES, SPACINGS, AND SPANS LISTED IN ASTM C754-04, TABLE 7. ALL OF THE COMBINATIONS ARE ACCEPTABLE, PROVIDED THE MAIN RUNNER SPACING DOES NOT EXCEED 4'-0" AND THE CEILING AREA SUPPORTED BY A HANGER WIRE DOES NOT EXCEED 16 SQUARE FEET.

3.2.1 MAIN RUNNER SPACING AND SPAN: THE MAIN RUNNER MOST FREQUENTLY USED IS A 1-1/2 INCH COLD ROLLED CHANNEL DESIGNATED 150U050-54 (1-1/2 INCH COLD ROLLED CHANNELS WEIGHING 0.414 LBS/FT) SPACED NO MORE THAN 4'-0" OC WITH A HANGER WIRE SPACING NOT TO EXCEED 4'-0" OC AND NO MORE THAN 6" FROM EACH END OF THE MAIN RUNNER.

3.2.2 VERTICAL HANGER WIRES. CEILING WIRE SHALL BE CLASS 1 ZINC COATED (GALVANIZED) CARBON STEEL CONFORMING TO ASTM A641. WIRE SHALL BE #9 GAGE (0.148" DIAMETER) WITH SOFT TEMPER AND MINIMUM TENSILE STRENGTH = 70 KSI.

3.2.3 CROSS-FURRING: 7/8 INCH GALVANIZED STEEL HAT SECTIONS, DESIGNATED 087F125-18, AT 24 INCHES OC MAXIMUM.

3.3 CONNECTING HANGER WIRES, STEEL FRAMING AND FURRING:
3.3.1 HANGER WIRES SHALL BE SADDLE-TIED TO THE MAIN RUNNERS PER IR 25-2.13 FIGURE 3A(F).

3.3.2 CROSS FURRING SHALL BE SADDLE-TIED TO THE MAIN RUNNERS WITH AT LEAST ONE STRAND OF #16 GAGE, OR TWO STRANDS OF #18 GAGE TIE WIRE.

3.3.3 MAIN RUNNERS SHALL BE SPLICED BY LAPPING AND INTERLOCKING FLANGES AND INSTALLING TWO (2) #8 SCREWS AT EACH END OF SPLICE. THE LAP MUST BE A MINIMUM OF 12 INCHES LONG.

3.3.4 CROSS FURRING SHALL BE SPLICED BY LAPPING AND INTERLOCKING THE PIECES AND INSTALLING TWO (2) #8 SCREWS AT EACH END OF SPLICE. THE LAP MUST BE A MINIMUM OF EIGHT (8) INCHES LONG.

3.4 INSTALLATION AND ANCHORAGE OF HANGER AND BRACING WIRES:
FASTER HANGER WIRES WITH NOT LESS THAN THREE (3) TIGHT TURNS WITHIN A DISTANCE OF THREE INCHES. HANGER WIRE, SHOPS BE TIGHTLY WRAPPED AND SHARPLY BENT TO PREVENT ANY VERTICAL MOVEMENT OR ROTATION OF THE MEMBER WITHIN THE LOOPS (SEE ASTM E580, SECTION 5.2.7.2). FASTEN BRACING WIRES WITH FOUR (4) TIGHT TURNS WITHIN A DISTANCE OF ONE AND ONE-HALF (1-1/2) INCHES. HANGER AND BRACING WIRE ANCHORS SHALL BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHOR ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE WIRE.

3.4.1 SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST SIX (6) INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT, ETC.

3.4.2 WHEN DRILLED-IN CONCRETE ANCHORS OR POWER ACTUATED FASTENERS ARE USED IN REINFORCED CONCRETE FOR HANGER WIRES, 1 OUT OF 10 MUST BE FIELD TESTED FOR 200 LBS. IN TENSION. WHEN DRILLED-IN CONCRETE ANCHORS ARE USED FOR BRACING WIRES, 1 OUT OF 2 MUST BE FIELD TESTED FOR 440 LBS IN TENSION. POWER ACTUATED FASTENERS IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES. IF ANY POWER ACTUATED FASTENER OR DRILLED-IN ANCHOR FAILS, SEE 2016 CBC SECTION 1910A.5.1. NOTE: DRILLED-IN ANCHORS OR POWER ACTUATED FASTENERS EMBEDMENT DEPTH SHALL BE LIMITED IN PRESTRESSED CONCRETE TO NOT IMPAIR TENSIONED REINFORCEMENT OR SPECIAL PROCEDURES SHALL BE DEVELOPED TO LOCATE AND CLEAR TENSIONED REINFORCEMENT.

3.4.3 PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO TYPICAL HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREAS. HANGER WIRES THAT ARE MORE THAN 1 IN 6 OUT OF PLUMB ARE TO HAVE COUNTER-SLOPING WIRES.

4. CEILING FIXTURES, TERMINALS, AND DEVICES:
4.1 ALL RECESSED OR DROP-IN LIGHT FIXTURES, AS WELL AS CEILING MOUNTED MECHANICAL AIR TERMINALS AND SERVICES, SHALL BE SUPPORTED DIRECTLY BY MAIN RUNNERS OR BY SUPPLEMENTAL FRAMING WHICH IS SUPPORTED BY MAIN RUNNERS AND POSITIVELY ATTACHED WITH SCREWS OR OTHER APPROVED CONNECTORS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE COMPONENT. A MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH FIXTURE AND COMPONENT.

4.2 SURFACE MOUNTED FIXTURES SHALL BE ATTACHED TO A MAIN RUNNER WITH A POSITIVE CLAMPING DEVICE MADE OF MATERIAL WITH A MINIMUM OF 14 GAGE. ROTATIONAL SPRING CLAMPS DO NOT COMPLY.

4.3 LIGHT FIXTURES, GRILLES, MECHANICAL TERMINALS, AND FLEXIBLE SPRINKLER HOSE FITTINGS OR OTHER SERVICES WEIGHING GREATER THAN 20 LBS. MUST BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN TWO (2) TAUT #12 GAGE WIRES WHERE LESS THAN 56 POUNDS, AND FOUR (4) TAUT #12 GAGE WIRES WHERE GREATER THAN OR EQUAL TO 56 POUNDS, AND ATTACHED TO THE HOUSING AND TO THE STRUCTURE ABOVE. THE WIRES, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, MUST BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE UNIT.

4.4 ALL LIGHTWEIGHT MISCELLANEOUS DEVICES, SUCH AS STROBE LIGHTS, OCCUPANCY SENSORS, SPEAKERS, EXIT SIGNS, ETC., SHALL BE ATTACHED TO THE CEILING PER SECTION 4.1 OF THIS IR. DEVICES WEIGHING MORE THAN 20 LBS. SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE PER SECTION 4.3 OF THIS IR.

4.5 PENETRATIONS THROUGH THE CEILING FOR SPRINKLER HEADS AND OTHER SIMILAR DEVICES THAT ARE NOT INTEGRALLY 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. ALTERNATIVELY, PER ASTM E580, SECTION 5.2.8.5, A FLEXIBLE SPRINKLER HOSE FITTING THAT CAN ACCOMMODATE 1 INCH OF CEILING MOVEMENT SHALL BE PERMITTED TO BE USED IN LIEU OF THE OVERSIZED RING, SLEEVE, OR ADAPTER.

4.6 ACCESS PANELS: ACCESS TO THE SPACE BETWEEN THE CEILING AND THE FLOOR OR ROOF ABOVE SHALL NOT BE ALLOWED. SMALL ACCESS PANELS FOR THE INSPECTION, ADJUSTMENT OR REPAIR OF UTILITY SWITCHES, VALVES, SENSOR, ETC. MAY BE ALLOWED IF THE PANEL IS LESS THAN 300 SQUARE INCHES. SUCH PANELS SHALL ALSO HAVE A PERMANENTLY ATTACHED WARNING LABEL AS FOLLOWS:

"WARNING:
1) DO NOT CLIMB, WALK, OR CRAWL ON THE GYPSUM BOARD CEILING PANELS OR METAL FRAMING.
2) DO NOT STORE OR STOW ANYTHING ON THE GYPSUM BOARD CEILING PANELS OR METAL FRAMING."

IF FIRE FIGHTER ACCESS IS REQUIRED PER CBC SECTION 1209.2 IN ATTICS OF COMBUSTIBLE CONSTRUCTION, THE PRESCRIPTIVE SUSPENDED CEILING SYSTEM PRESCRIBED IN THIS IR IS NOT APPLICABLE, AND THE CEILING SHALL BE FRAMED AND DESIGNED FOR SUCH LOADING.

5. LATERAL SYSTEM:
A GYPSUM BOARD CEILING GREATER THAN 144 SQUARE FEET IN AREA SHALL BE DESIGNED TO RESIST ITS OWN SEISMIC LOADS, PER SECTION 2 ABOVE, AND SHALL NOT BE PERMITTED TO BE USED TO RESIST PRIMARY STRUCTURAL LOADS OR OTHER LOADS. THERE ARE TWO OPTIONAL LATERAL SYSTEMS FOR THIS PURPOSE:

- THE BRACE WIRE SYSTEM, PER SECTION 5.1.
- THE DIAPHRAGM SYSTEM, PER SECTION 5.2.

EITHER OR BOTH OPTIONS MAY BE SHOWN ON PLANS OR NOTED IN THE SPECIFICATIONS. NOTES:

1. IF BOTH OPTIONS ARE SHOWN ON THE PLANS OR NOTED IN THE SPECIFICATIONS, ONLY ONE OPTION CAN BE USED FOR EACH SEPARATE CEILING AREA.
2. FIRE-RATED SYSTEMS SHALL BE INSTALLED PER RATED LISTING (I.E. UL, FACTORY MUTUAL, ETC.) AND MANUFACTURERS' INSTRUCTION, AND THE RATED LISTING MAY DICTATE THE OPTIONAL LATERAL SYSTEM USED.

5.1 BRACE WIRE SYSTEM: LATERAL FORCE BRACING ASSEMBLIES SHALL CONSIST OF A COMPRESSION STRUT AND FOUR (4) #12 GAGE SPAYED BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER. LATERAL FORCE BRACING ASSEMBLIES SHALL BE SPACED, PER TABLE 1 FOR ALL VALUES OF THE COMPONENT IMPORTANCE FACTOR (IP) OF THE CEILING.

5.2 DIAPHRAGM SYSTEM: A SUSPENDED GYPSUM BOARD CEILING MAY BE DESIGNED AS A HORIZONTAL DIAPHRAGM TO RESIST ITS OWN SEISMIC LOADS AS PRESCRIBED IN THIS SECTION. GYPSUM BOARD SHALL NOT BE USED IN DIAPHRAGM SYSTEMS TO RESIST LATERAL FORCES IMPOSED BY PARTITIONS.

5.2.1 DIAPHRAGM RATIOS: HORIZONTAL 2:1 MAXIMUM VERTICAL 1:1 MAXIMUM

5.2.2 A MAXIMUM DIAPHRAGM SHEAR EQUAL TO 50 LBS/FT IS ALLOWED WITH 1 INCH OR 1-1/4 INCH HI-LO TYPE S, OR

S-12 BUGLE HEAD SCREWS AT 12 INCHES OC AT ALL GYPSUM BOARD EDGES (3/8 INCH SCREW EDGE DISTANCE) AND AT ALL INTERMEDIATE SUPPORTS. A WALL CONSTRUCTED SIMILARLY CAN RESIST THE SAME SHEAR FORCE PROVIDED THE GYPSUM BOARD IS ON THE SAME SIDE OF THE STUDS AS THE CEILING IS, AND A POSITIVE CONNECTION BETWEEN THE CEILING AND THE WALL IS DETAILED. THE GYPSUM BOARD DIAPHRAGMS ARE TO RESIST LATERAL LOADS DUE TO THEIR OWN WEIGHT AND/OR THE CEILING DIAPHRAGM(S) ONLY.

5.2.3 DETAILS ARE REQUIRED PROVIDING FOR LATERAL LOAD TRANSFER FROM THE GYPSUM BOARD TO SHEAR WALLS, OR OTHER LATERAL LOAD RESISTING ELEMENTS, ON ALL FOUR SIDES OF THE DIAPHRAGM. THERE SHALL BE NO STEPS OR VERTICAL OFFSETS IN THE CEILING PLANE.

6. DSA ACCEPTANCE OF EVALUATION REPORTS:
AT THE DISCRETION OF THE DSA, PROPRIETARY SYSTEMS MAY BE ACCEPTED UNDER ALL THE FOLLOWING CONDITIONS:

- ACCEPTANCE WILL BE GRANTED ON A PROJECT SPECIFIC BASIS.
- PROPRIETARY SYSTEMS MUST MEET THE REQUIREMENTS OF THE CBC.
- PROPRIETARY SYSTEMS MUST HAVE VALID EVALUATION REPORTS MEETING THE PROVISIONS OF DSA IR A-5. IN ACCORDANCE WITH DSA IR A-5.

DSA WILL ACCEPT OSHPD PREAPPROVED DETAILS (OPD) 2013 CBC STANDARD GYPSUM BOARD CEILING DETAILS FOR SUSPENDED AND JOIST FRAMING CONSTRUCTION."

San Rafael City Schools



310 Nova Albion Way, San Rafael, CA 94903

SRCS Wellness & Restroom Modernization

320 Nova Albion Way, San Rafael, CA 94903

Date Issued For
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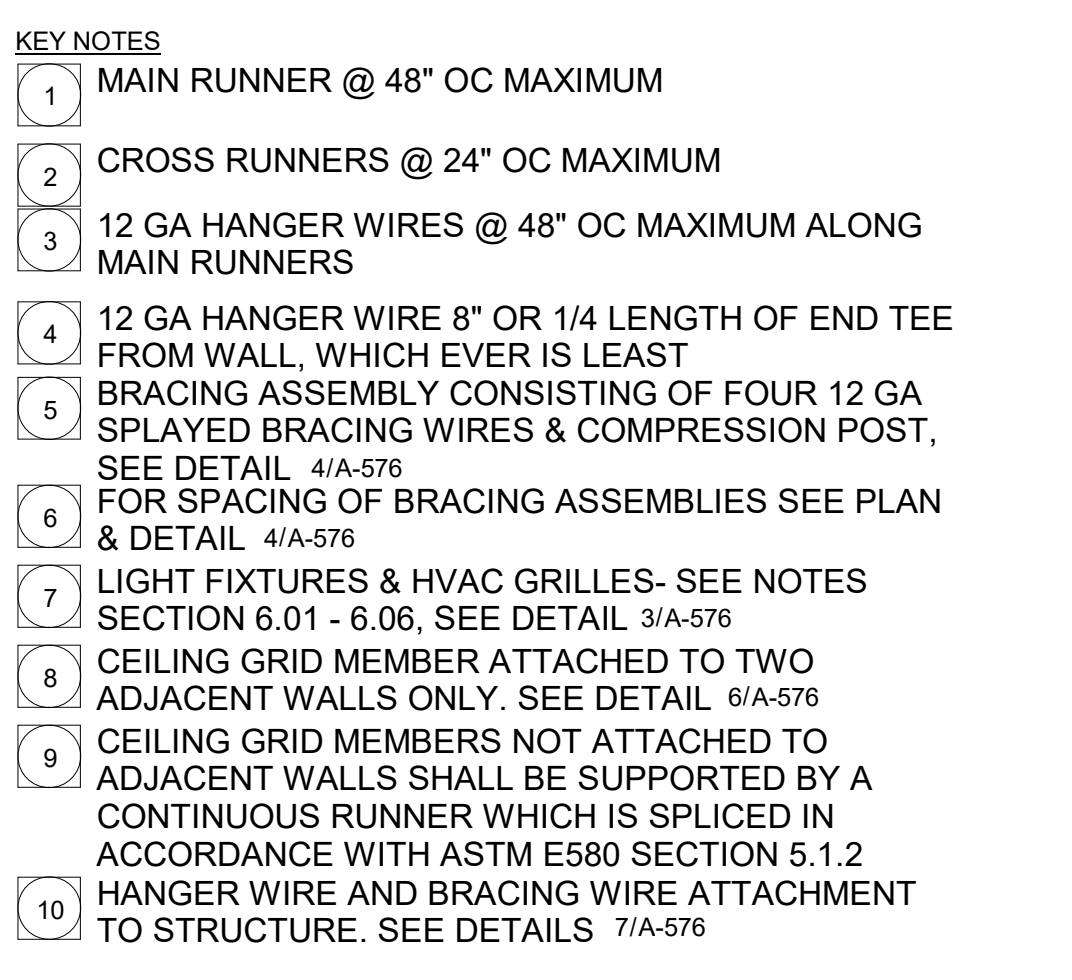
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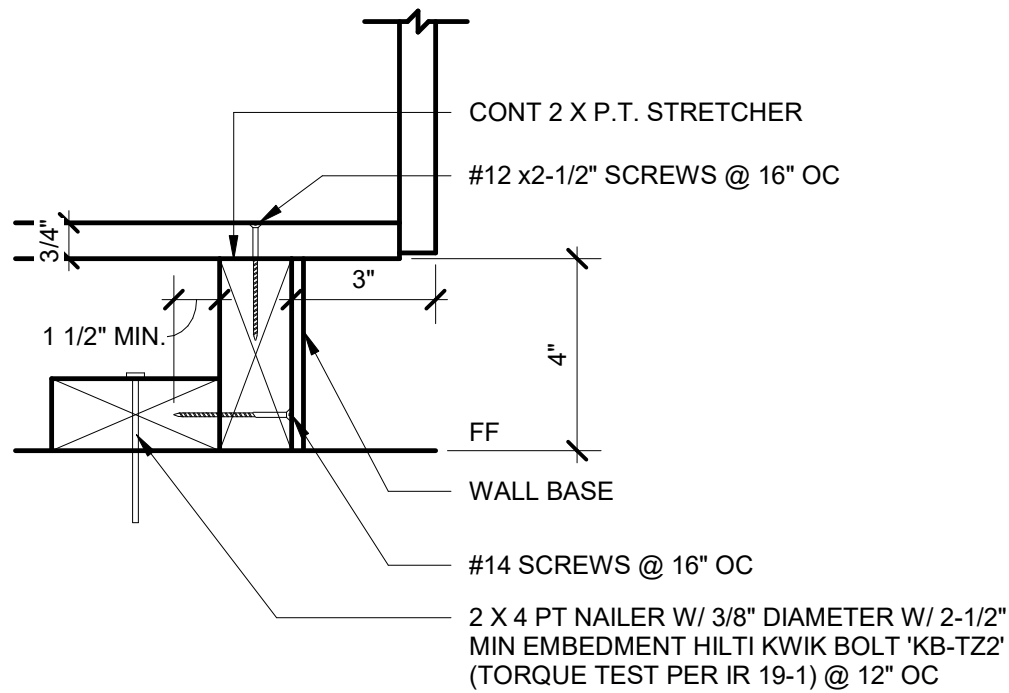
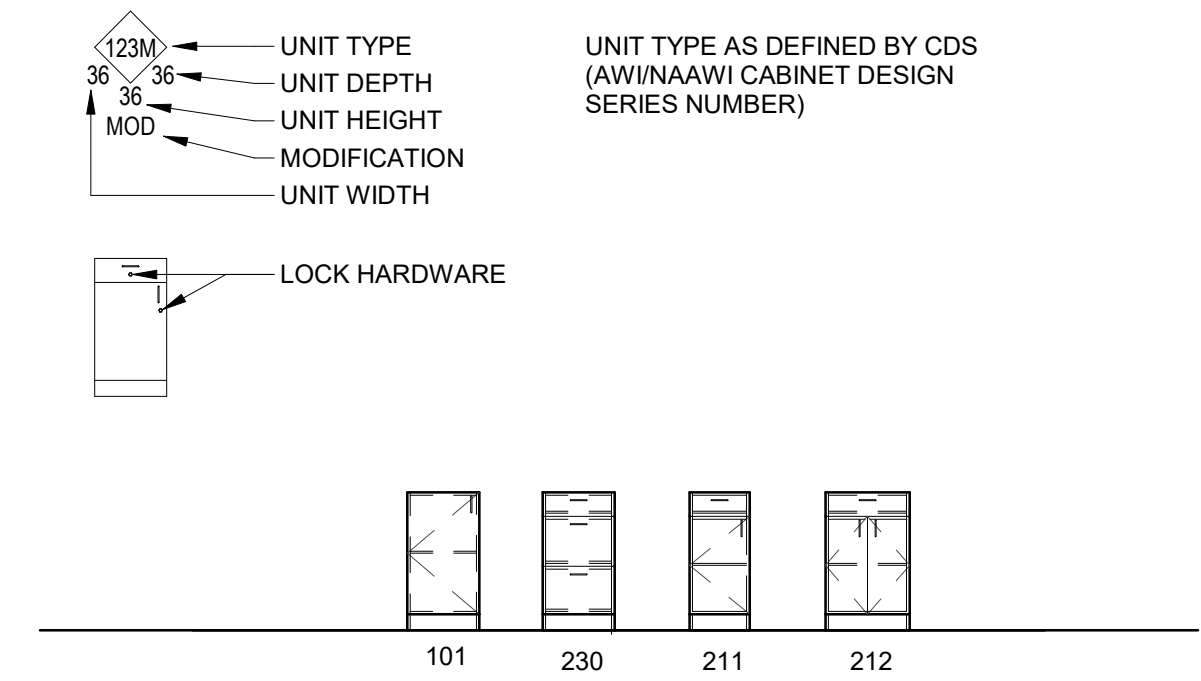


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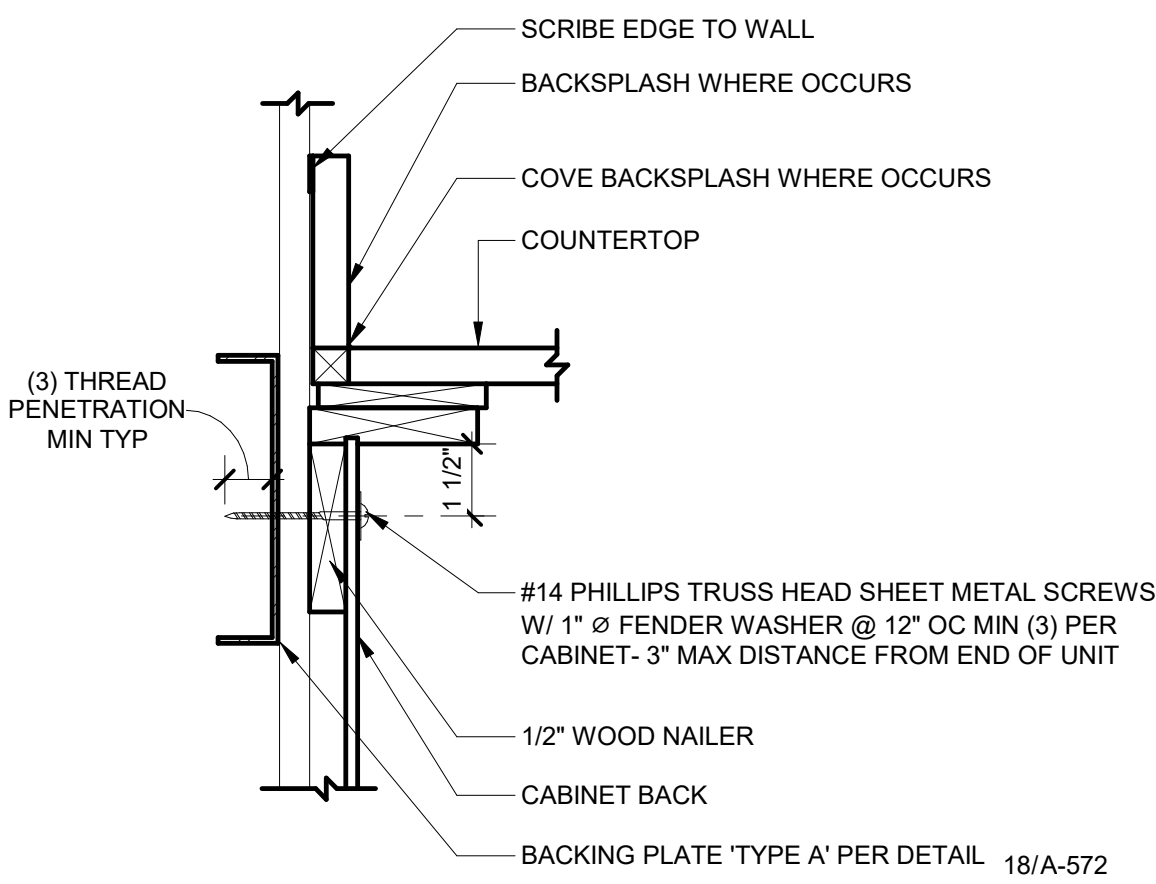
MILLWORK NOTES

- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, ALONG WITH 12" X 12" SAMPLES OF FINISHES ON SPECIFIED SUBSTRATES, FOR APPROVAL BY THE ARCHITECT PRIOR TO COMMENCEMENT OF FABRICATION.
- WORK SHALL BE CUSTOM GRADE, FLUSH OVERLAY CONSTRUCTION, IN COMPLIANCE WITH NORTH AMERICAN ARCHITECTURAL WOODWORK STANDARDS (NAAWS), CURRENT EDITION, INCLUDING ERRATA.
- BLOCKING GROUNDS, ROUGH BUCKS AND MISCELLANEOUS BLOCKING SHALL BE FIRE-RETARDANT TREATED WOOD AS REQUIRED BY APPLICABLE CODES.
- PROVIDE BLOCKING IN PARTITIONS TO PROPERLY SUPPORT CABINET WORK OR OTHER ITEMS WEIGHING MORE THAN 40 LBS. IF BLOCKING IS WOOD, PROVIDE FRTW AS REQUIRED PER APPLICABLE CODE.
- WOOD SURFACES AND EDGES TO BE PAINTED SHALL BE PROPERLY SANDED, SEALED, AND SHOP PRIMED TO RECEIVE SHOP FINISH COATS.
- CONTRACTOR SHALL VERIFY DIMENSIONS IN THE FIELD PRIOR TO FABRICATION.
- RUNNING AND STANDING TRIM TO HAVE MITERED OUTSIDE CORNERS, COPED INSIDE CORNERS, UNLESS OTHERWISE NOTED.
- CASEWORK AND MILLWORK TO MEET THE FLAME SPREAD AND MINIMUM SMOKE DEVELOPED REQUIREMENTS OUTLINED ON THE CODE AND LIFE SAFETY DRAWINGS OR AS REQUIRED BY APPLICABLE CODES.
- CABINET WORK TO BE CONSTRUCTED AS DETAILED AND INDICATED, WITH THE FOLLOWING GUIDELINES:
 - EXPOSED SURFACES (INCLUDING SURFACES INSIDE CABINETS EXPOSED WITH DOORS OPEN, AND UNDERSIDE AND EDGES OF SHELVES) TO BE FINISHED.
 - PLASTIC LAMINATE: HORIZONTAL SURFACES, GRADE OF .050" THICK, GENERAL PURPOSE TYPE (HIGH PRESSURE), VERTICAL SURFACES, GRADE OF .028" THICK, WITH LAMINATE ON EXPOSED SURFACES AND EDGES. IF NOT INDICATED IN MATERIAL FINISH SCHEDULE, COLORS TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARDS.
 - CABINET DOORS TO HAVE CONCEALED PIVOT HINGES OR CABINET HINGES.
 - UNLESS INDICATED OTHERWISE, DRAWERS TO HAVE 3 1/2" BRUSHED STAINLESS WIRE PULLS.
 - CABINET AND PANEL SUBSTRATES TO BE 3/4" HIGH-DENSITY LOW-VOC PARTICLE BOARD UNLESS OTHERWISE NOTED.
 - WOOD VENEER FOR ALL VERTICAL MILLWORK (PANELS) MIN 1/32" THICK.
 - ALL PANEL VENEER WORK TO CONFORM TO NAAWS SECTION 4, SHEET PRODUCTS. VENEER APPLICATION TO BE "BOOK MATCH."

CASEWORK LEGEND

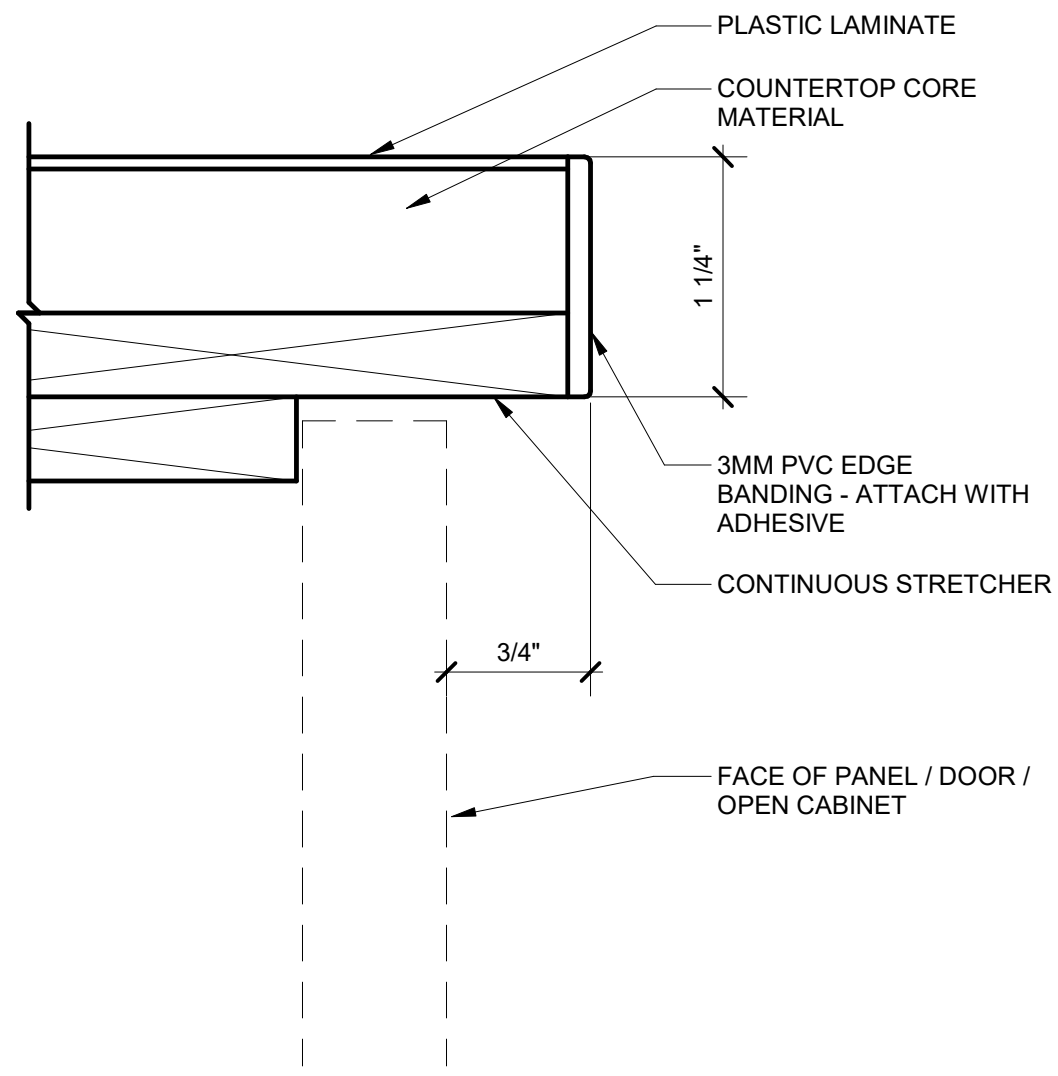


7 TYP CABINET ANCHORAGE @ TOE
3" = 1'-0"

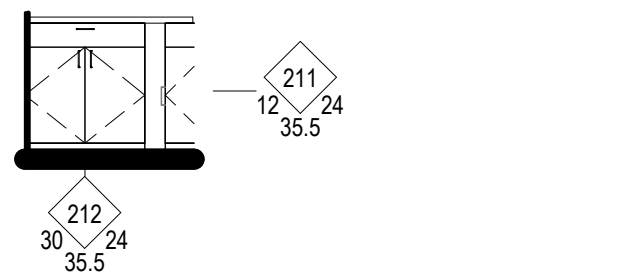


NOTE: PROVIDE CONCEALED ANCHORS @ ALL OPEN SHELVES, CABINETS, ETC.

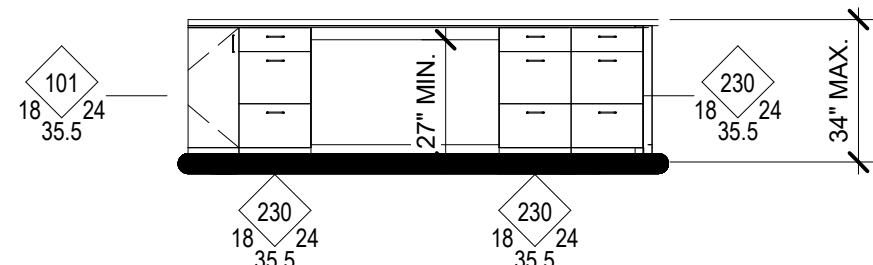
6 TYP BASE CABINET ANCHORAGE
3" = 1'-0"



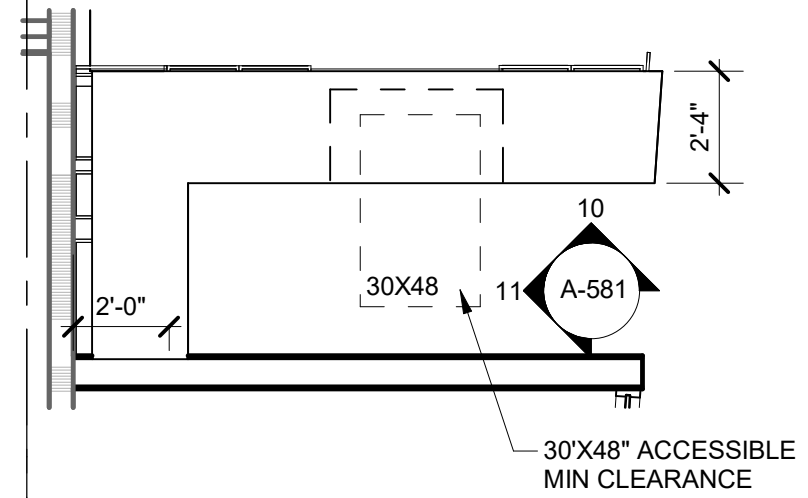
2 TYP COUNTERTOP EDGE
12" = 1'-0"



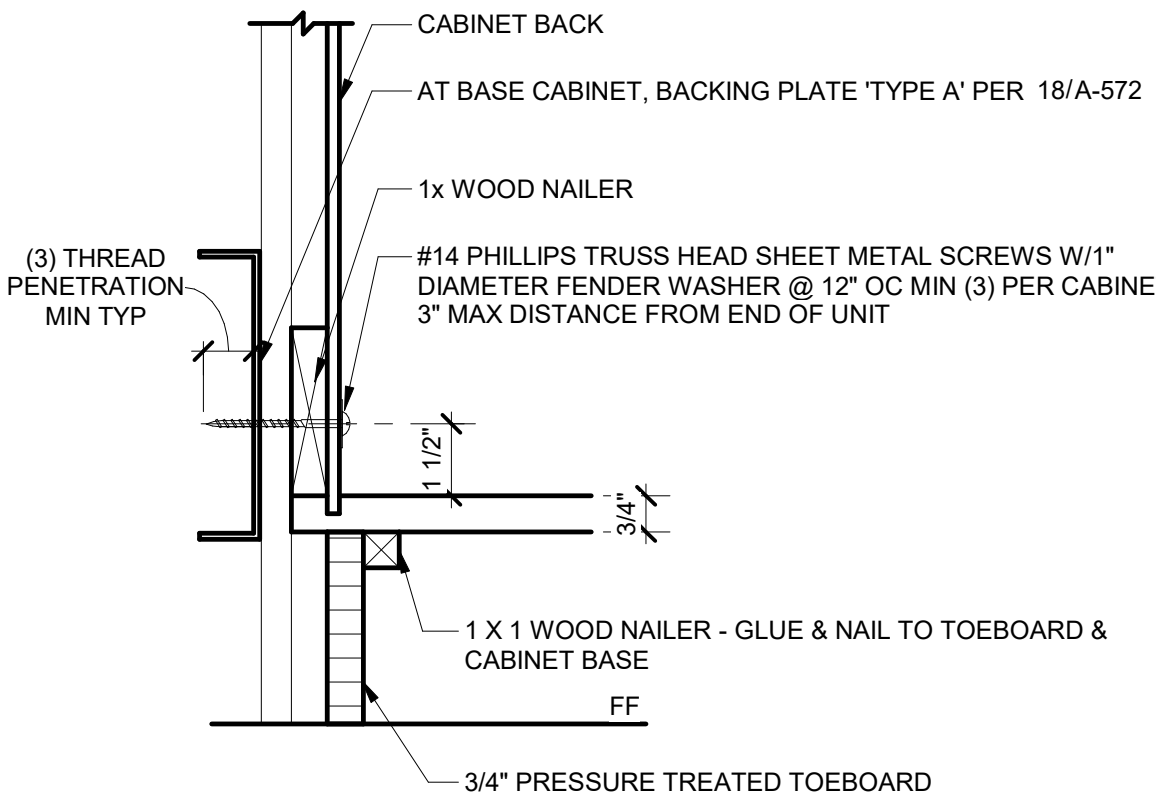
11 WEST ELEVATION - RECEPTION DESK
1/4" = 1'-0"



10 NORTH ELEVATION - RECEPTION DESK
1/4" = 1'-0"

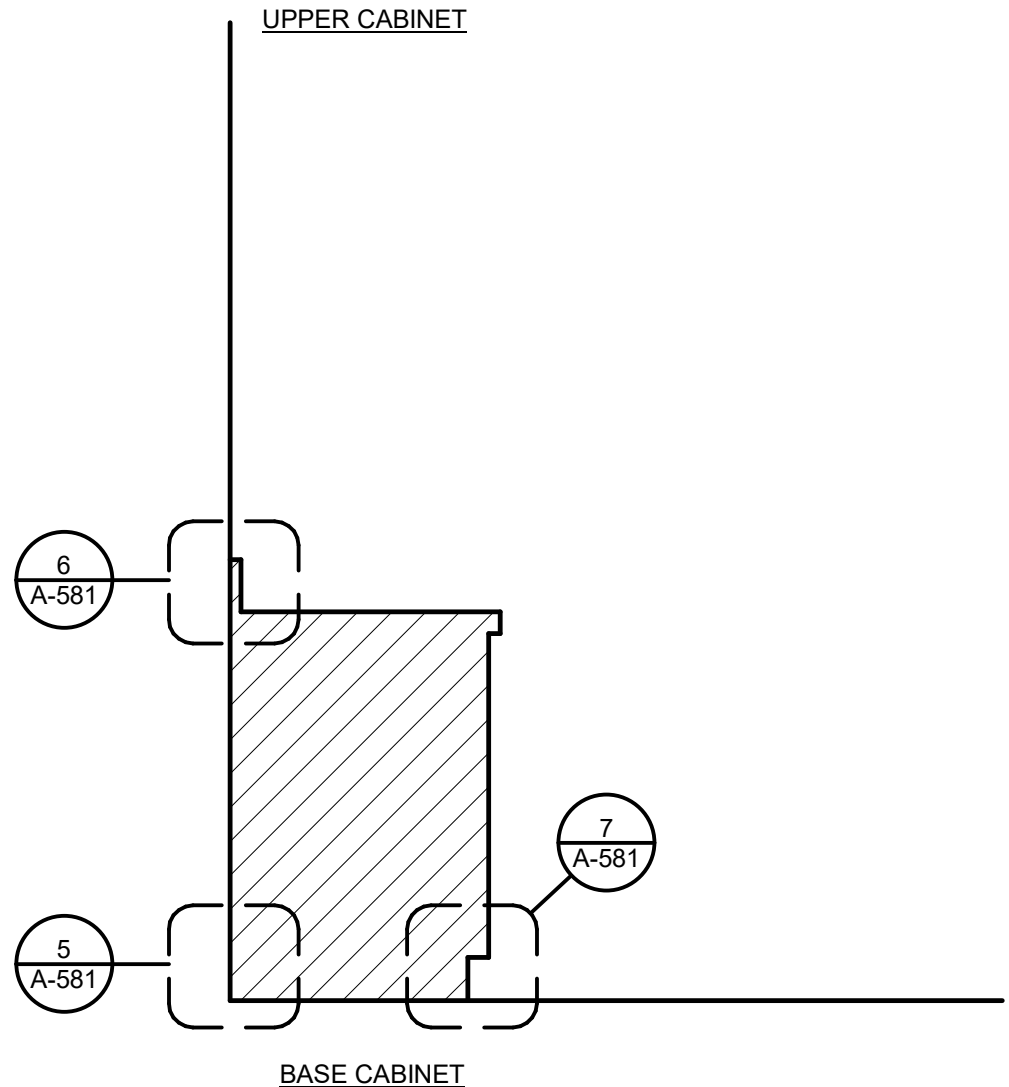


9 WELLNESS RECEPTION DESK
1/4" = 1'-0"

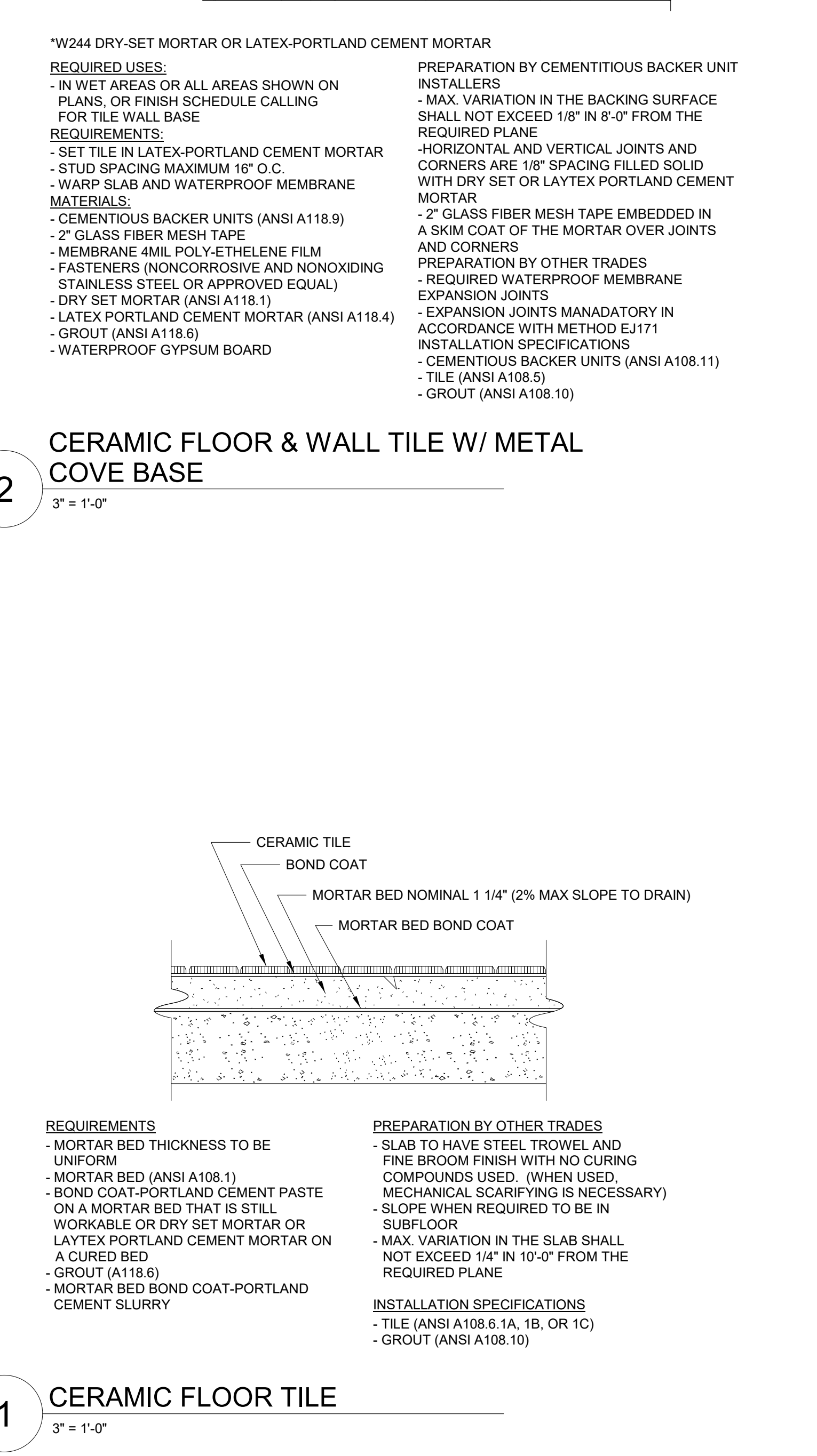
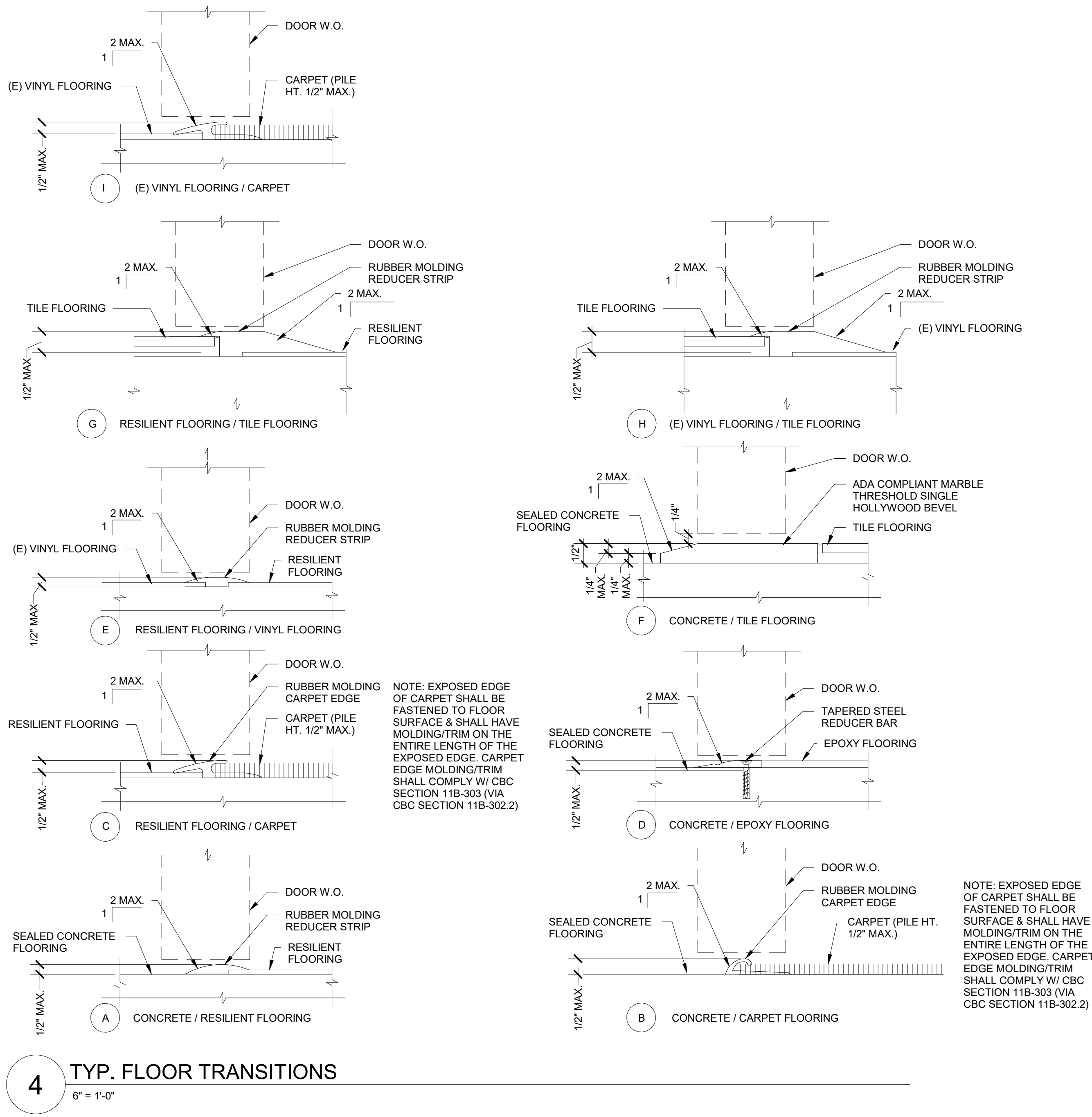
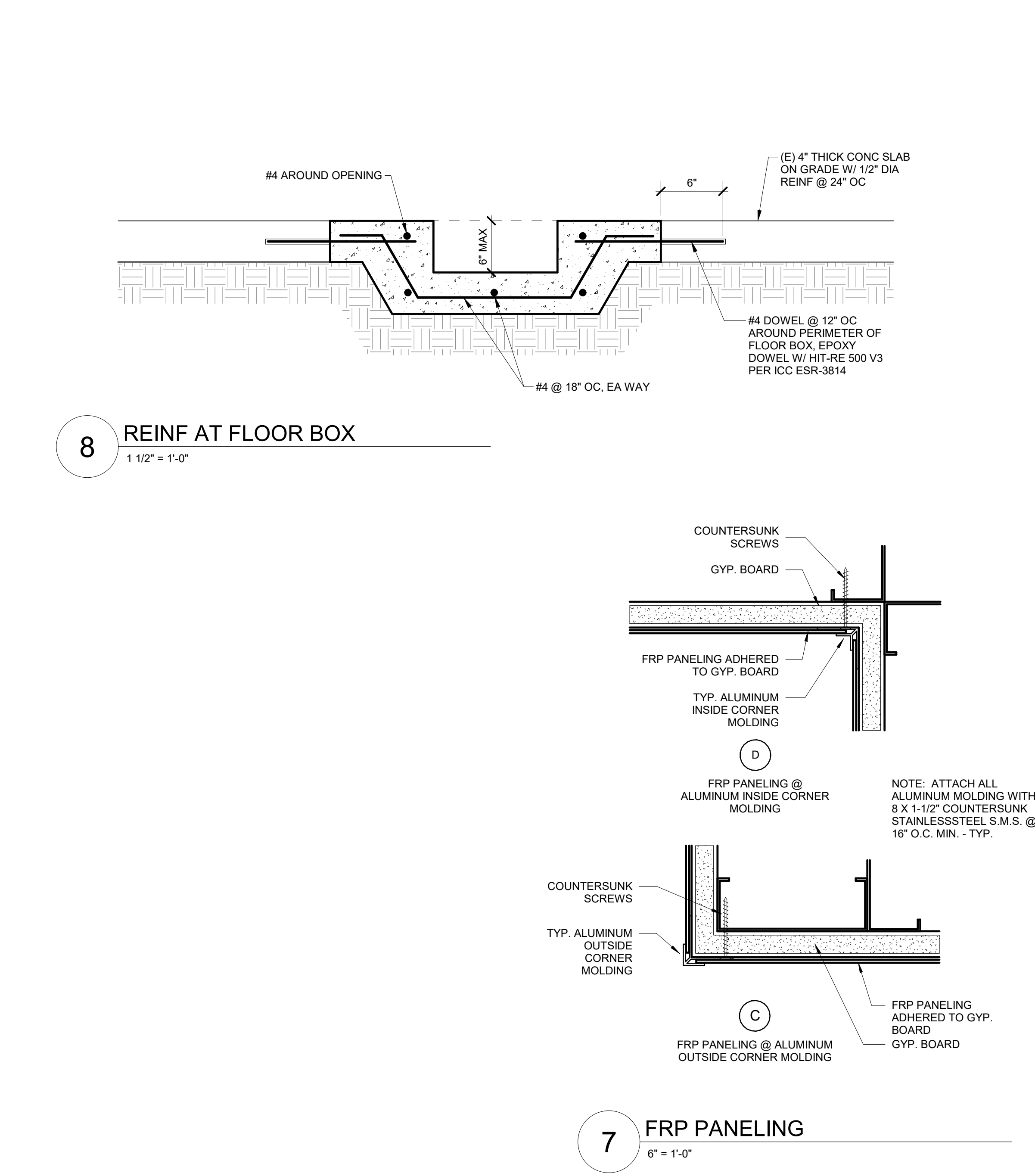
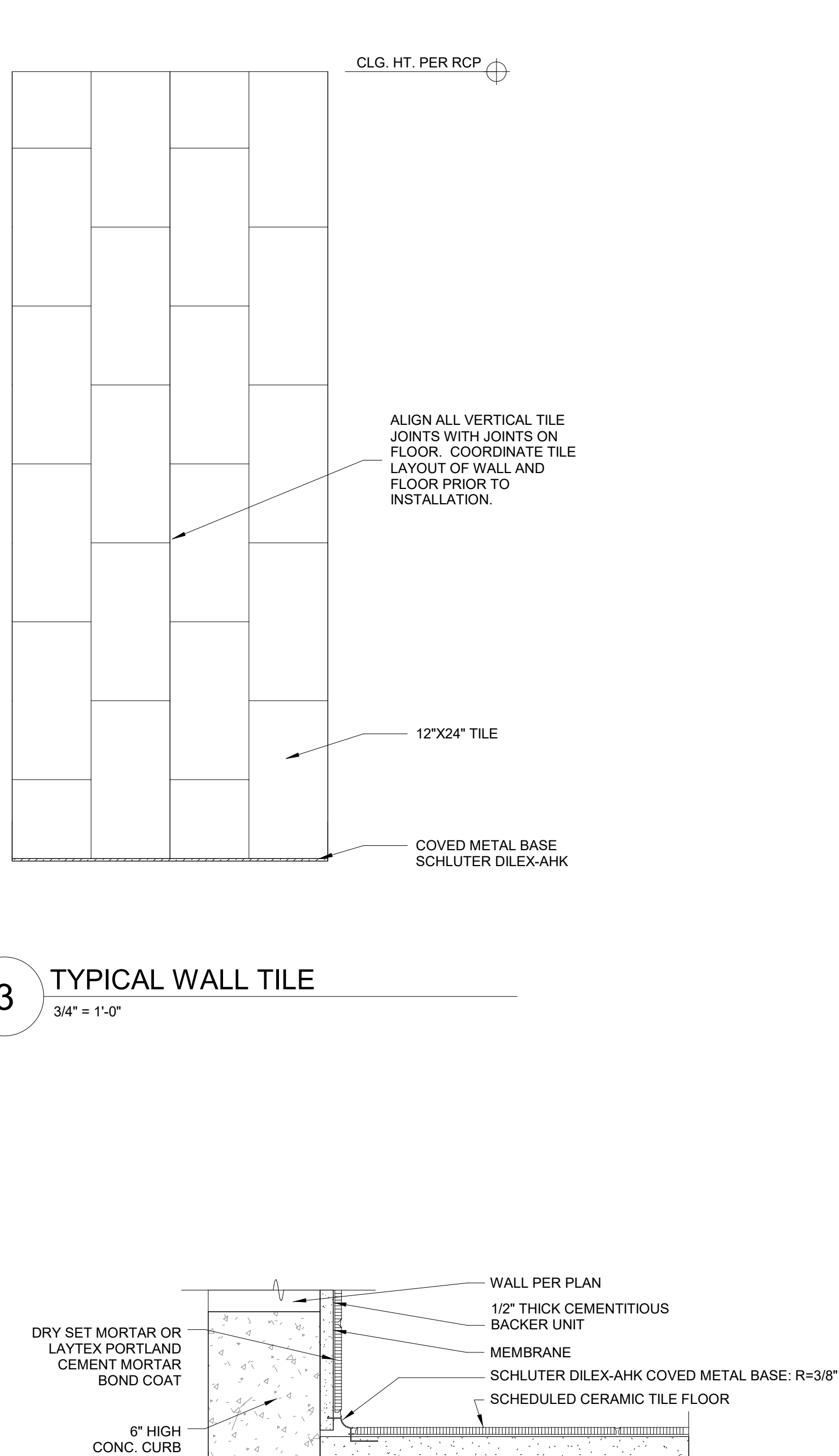
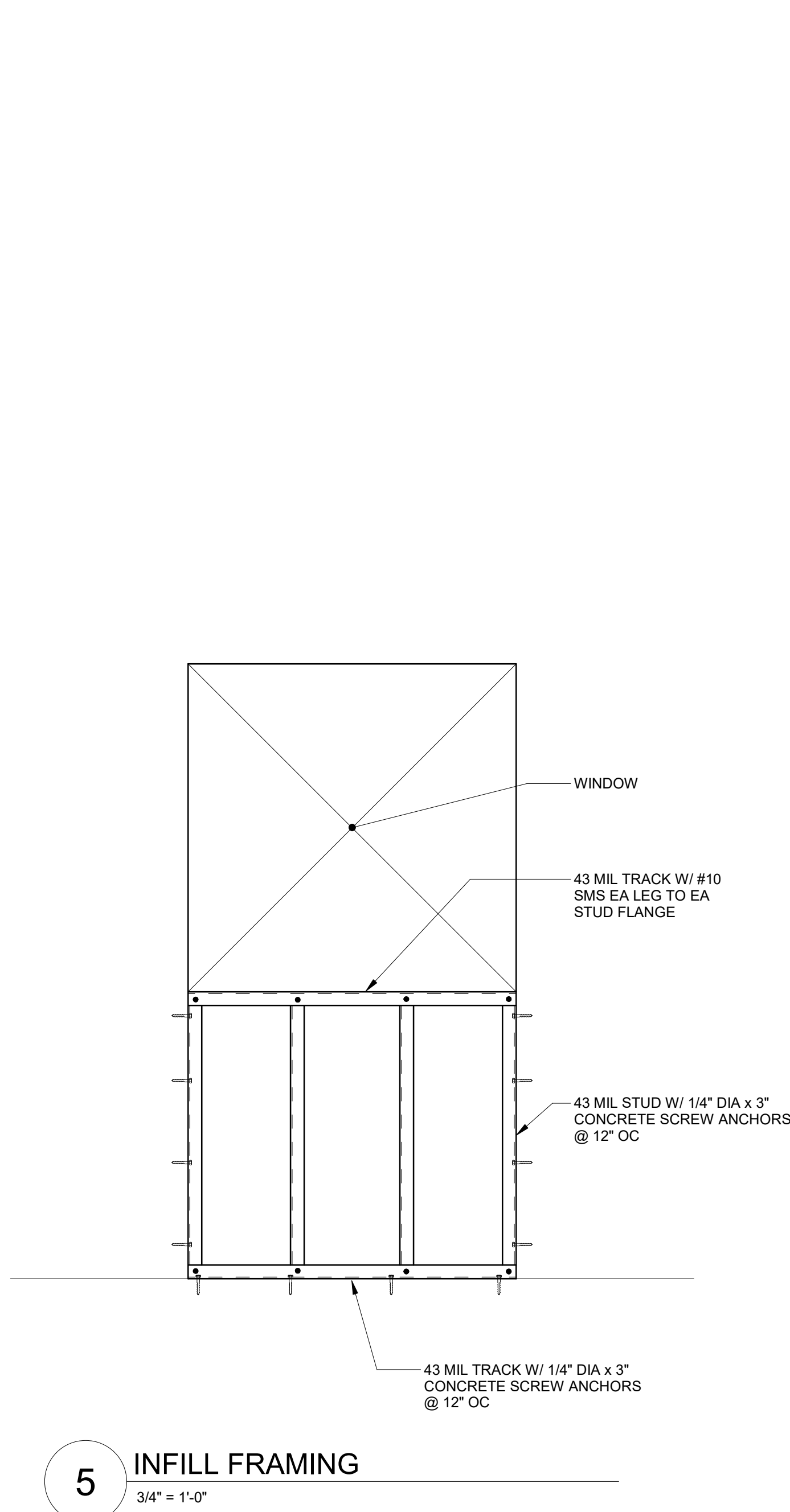
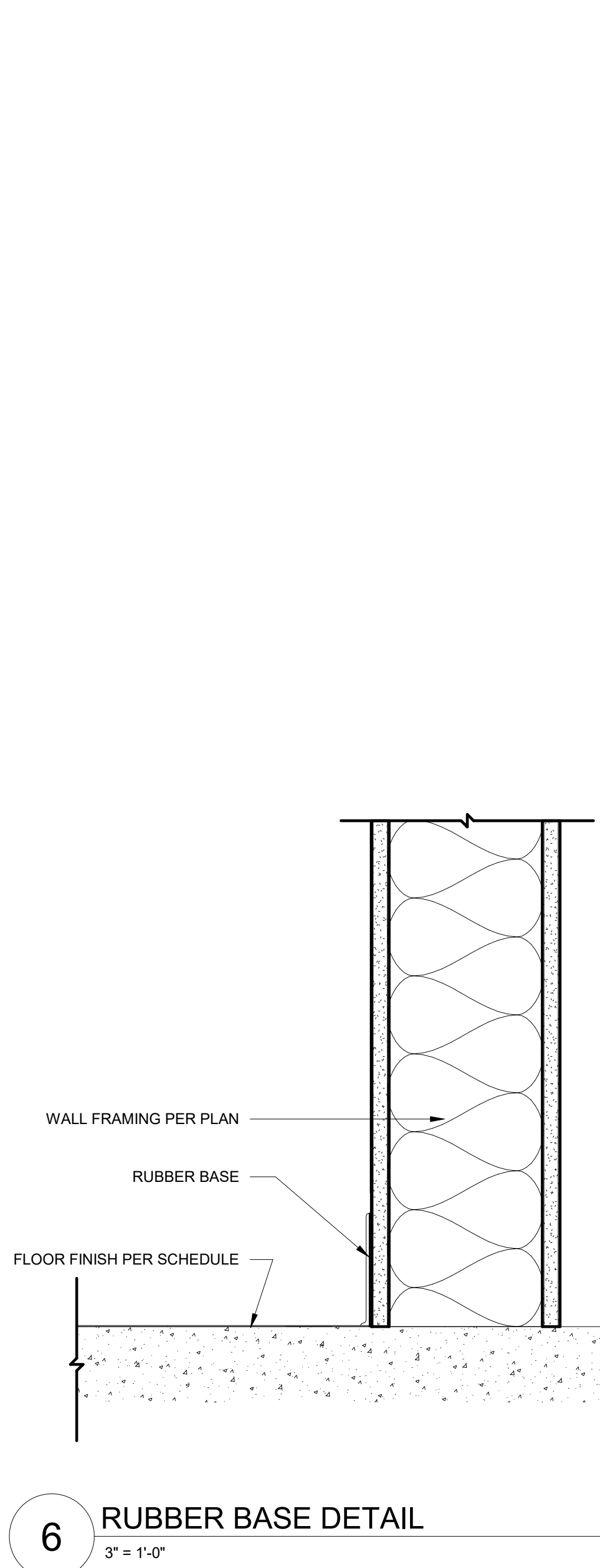
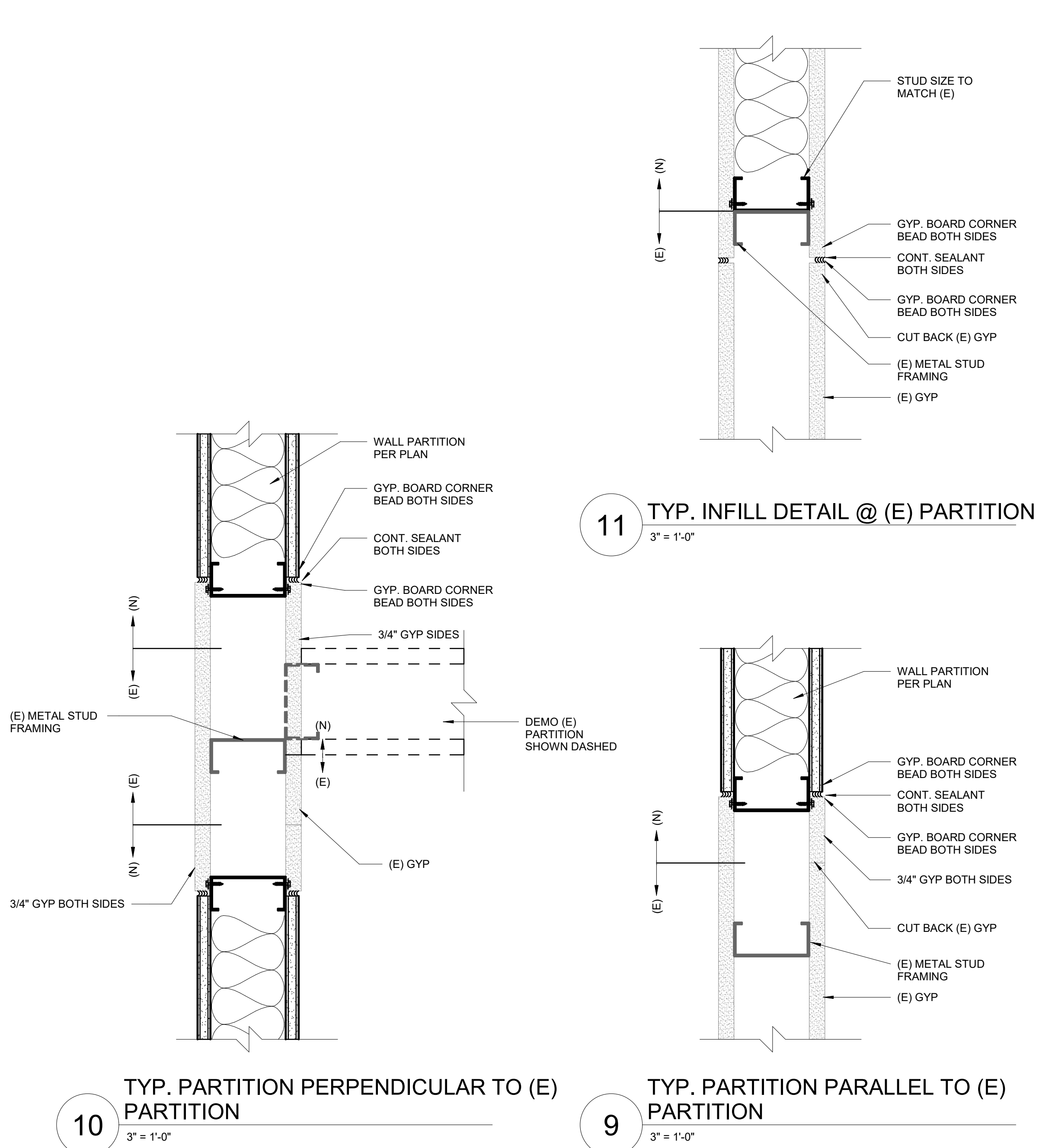


NOTE: PROVIDE CONCEALED ANCHORS @ ALL OPEN SHELVES, CABINETS, ETC.

5 TYP BASE CABINET ANCHORAGE
3" = 1'-0"



1 TYP CASEWORK ATTACHMENT
1 1/2" = 1'-0"

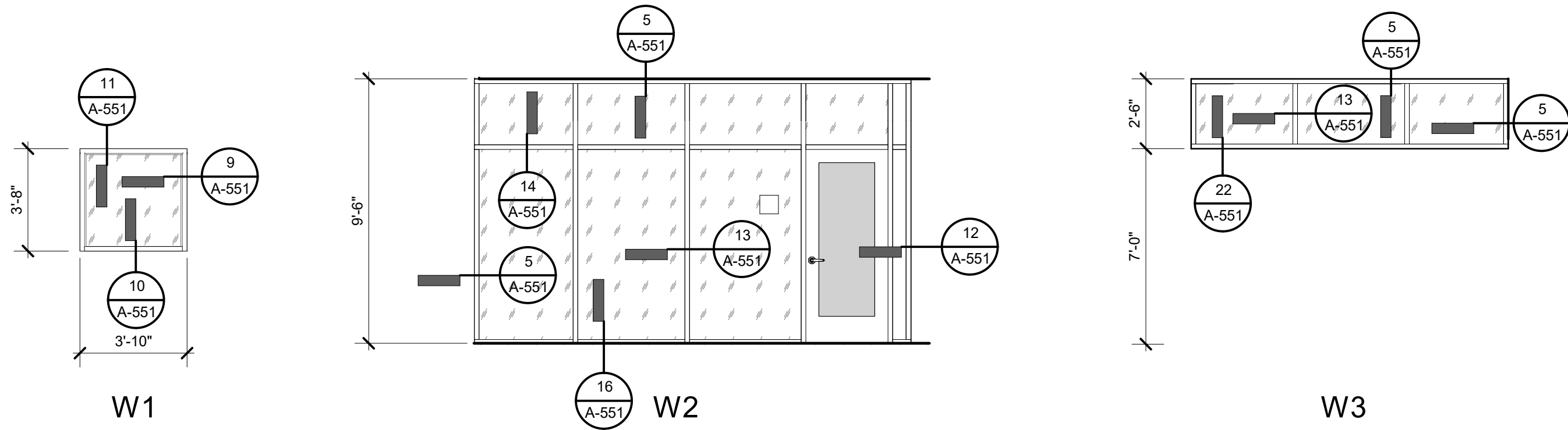


DOOR SCHEDULE															
MARK	DOORS					FRAME			FIRE RATING LABEL (MINS)	GLASS TYPE	HEAD DETAIL	JAMB DETAIL	THRESHO LD DETAIL	HW SET	NOTES
	WIDTH	HEIGHT	THKNESS	TYPE	FINISH	GLAZING	TYPE-MTL	FINISH							
LEVEL 1															
120A	2'-6"	7'-0"	1 3/4"	(E)F-WD	PNT		001-HM1	PNT		8/A-551	6/A-551	7/A-551	10		TRANSLUCENT FILM ON SIDELITE GLAZING
120B	3'-0"	7'-0"	1 3/4"	F-WD	PNT		001-HM1	PNT		8/A-551	6/A-551	7/A-551	02		
121A	3'-0"	7'-0"	1 3/4"	F-WD	STN		20-HM1A	PNT	GL-2	8/A-551	6/A-551	7/A-551	01		
122A	3'-0"	7'-0"	1 3/4"	F-WD	STN		20-HM1A	PNT	GL-2	8/A-551	6/A-551	7/A-551	01		
123A	3'-0"	7'-0"	1 3/4"	F-WD	STN		20-HM1A	PNT	GL-2	8/A-551	6/A-551	7/A-551	01		
124A	3'-0"	7'-0"	1 3/4"	F-WD	STN		20-HM1A	PNT	GL-2	8/A-551	6/A-551	7/A-551	01		
125A	3'-0"	7'-0"	1 3/4"	F-WD	STN		20-HM1B	PNT	GL-2	8/A-551	6/A-551	7/A-551	01		
126A	3'-0"	7'-0"	1 3/4"	F-WD	STN		001-HM1	PNT		8/A-551	6/A-551	7/A-551	03		
128A	3'-0"	7'-0"	1 3/4"	F-WD	STN		001-HM1	PNT		8/A-551	6/A-551	7/A-551	07		
129A	3'-0"	7'-0"	1 3/4"	(E)F-WD	STN		001-HM1	PNT		17/A-551	15/A-551	4/A-551	11		
129B	3'-0"	7'-0"	1 3/4"	FG-AL	PNT	GL-1	001-SF	PNT		8/A-551	6/A-551	7/A-551	01		
130A	3'-0"	7'-0"	1 3/4"	(E)F-WD-L	PNT	(E)GL-4	001-HM1	PNT		8/A-551	6/A-551	7/A-551	06		
500A	6'-0"	7'-0"	1 3/4"	F-HM	PNT		001-HM1	PNT		8/A-551	6/A-551	7/A-551	12		
508A	3'-0"	7'-0"	1 3/4"	F-WD	PNT		001-HM1	PNT		8/A-551	6/A-551	7/A-551	04		
508B	2'-4"	7'-0"	1 3/4"	F-WD	PNT		001-HM1	PNT		8/A-551	6/A-551	7/A-551	09		
508C	2'-4"	7'-0"	1 3/4"	F-WD	PNT		001-HM1	PNT		8/A-551	6/A-551	7/A-551	09		
508D	2'-4"	7'-0"	1 3/4"	F-WD	PNT		001-HM1	PNT		8/A-551	6/A-551	7/A-551	09		
508E	3'-0"	7'-0"	1 3/4"	F-WD	PNT		001-HM1	PNT		8/A-551	6/A-551	7/A-551	08		
508A	3'-0"	7'-0"	1 3/4"	F-WD	PNT		001-HM1	PNT		8/A-551	6/A-551	7/A-551	04		
LEVEL 2															
608A	3'-0"	7'-0"	1 3/4"	F-WD	PNT		001-HM1	PNT		8/A-551	6/A-551	7/A-551	04		
608B	2'-8"	7'-0"	1 3/4"	F-WD	PNT		001-HM1	PNT		8/A-551	6/A-551	7/A-551	09		
608C	2'-4"	7'-0"	1 3/4"	F-WD	PNT		001-HM1	PNT		8/A-551	6/A-551	7/A-551	09		
608D	2'-4"	7'-0"	1 3/4"	F-WD	PNT		001-HM1	PNT		8/A-551	6/A-551	7/A-551	09		
608E	2'-4"	7'-0"	1 3/4"	F-WD	PNT		001-HM1	PNT		8/A-551	6/A-551	7/A-551	09		
608F	2'-4"	7'-0"	1 3/4"	F-WD	PNT		001-HM1	PNT		8/A-551	6/A-551	7/A-551	09		
608G	3'-0"	7'-0"	1 3/4"	F-WD	PNT		001-HM1	PNT		8/A-551	6/A-551	7/A-551	08		
608A	3'-0"	7'-0"	1 3/4"	F-WD	PNT		001-HM1	PNT		8/A-551	6/A-551	7/A-551	05		

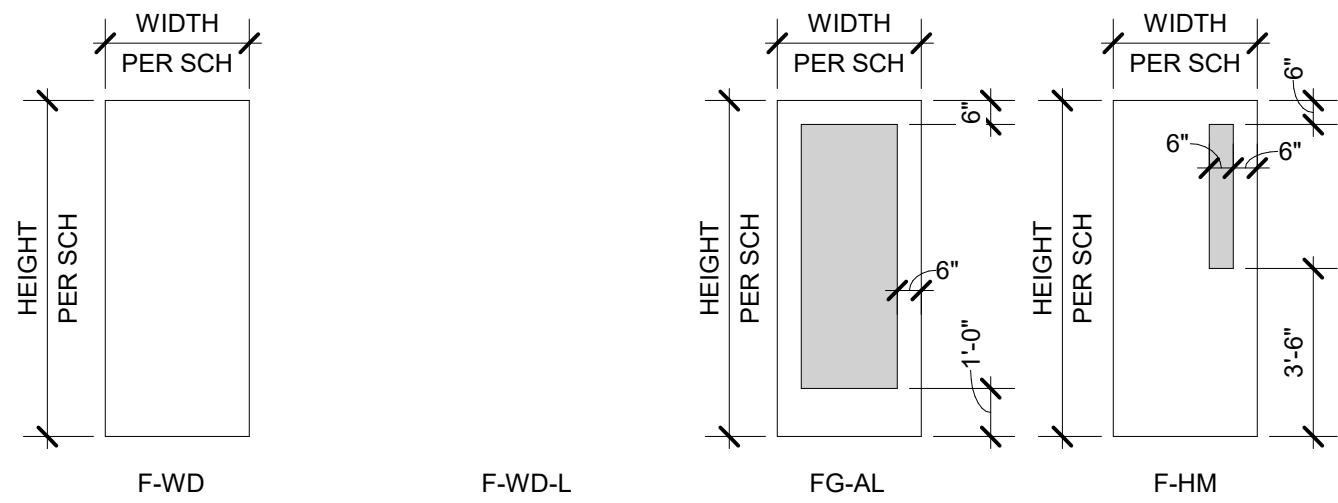
ROOM FINISH SCHEDULE									
ROOM NO	NAME	FINISH		WALLS				NOTES	
		FLOOR	BASE	N	S	E	W		
LEVEL 1									
120	WAITING	LVT	RB	PT	PT	PT	PT		
120A	(E) MECH	CON	RB	PT	PT	PT	PT		
121	OFFICE 5	CPT	RB	PT	PT	PT	PT		
122	OFFICE 4	CPT	RB	PT	PT	PT	PT		
123	OFFICE 3	CPT	RB	PT	PT	PT	PT		
124	OFFICE 2	CPT	RB	PT	PT	PT	PT		
125	OFFICE 1	CPT	RB	PT	PT	PT	PT		
126	STOR	LVT	RB	PT	PT	PT	PT		
128	RR	CT	MCB	CT, PT	CT, PT	CT, PT	CT, PT		
129	CONF	LVT	RB	PT	PT	PT	PT		
130	CUST	CON	RB	FRP, PT	FRP, PT	FRP, PT	FRP, PT	5'-0" FRP PANELS ALL WALLS	
508	GENDER NEUTRAL RESTROOM	CT	MCB	CT, PT	CT, PT	CT, PT	CT, PT		
509	SPECIAL ED RESTROOM	CT	MCB	CT, PT	CT, PT	CT, PT	CT, PT		
LEVEL 2									
608	GENDER NEUTRAL RESTROOM	CT	MCB	CT, PT	CT, PT	CT, PT	CT, PT		
609	CUSTODIAL STORAGE	CON	RB	PT	PT	PT	PT		

WINDOW SCHEDULE											
WINDOW TYPE	COUNT	WIDTH	HEIGHT	SILL HEIGHT	FRAME MATERIAL	FRAME FINISH	GLAZING	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	COMMENTS
W2	1	10'-2"	10'-0"		AL	FF	GL2	13/A-552	11/A-552	6/A-552	
W3	1	11'-10"	9'-6"	3'-4"							TRANSLUCENT FILM
W2	1	15'-3"	9'-6"	0"	AL	FF	GL2	5/A-551	5/A-551	16/A-551	TRANSLUCENT FILM
W1	1	3'-10"	3'-8"	0"	AL	FF	GL1	11/A-551	9/A-551	9/A-551	VERIFY EXISTING OPENING IN FIELD

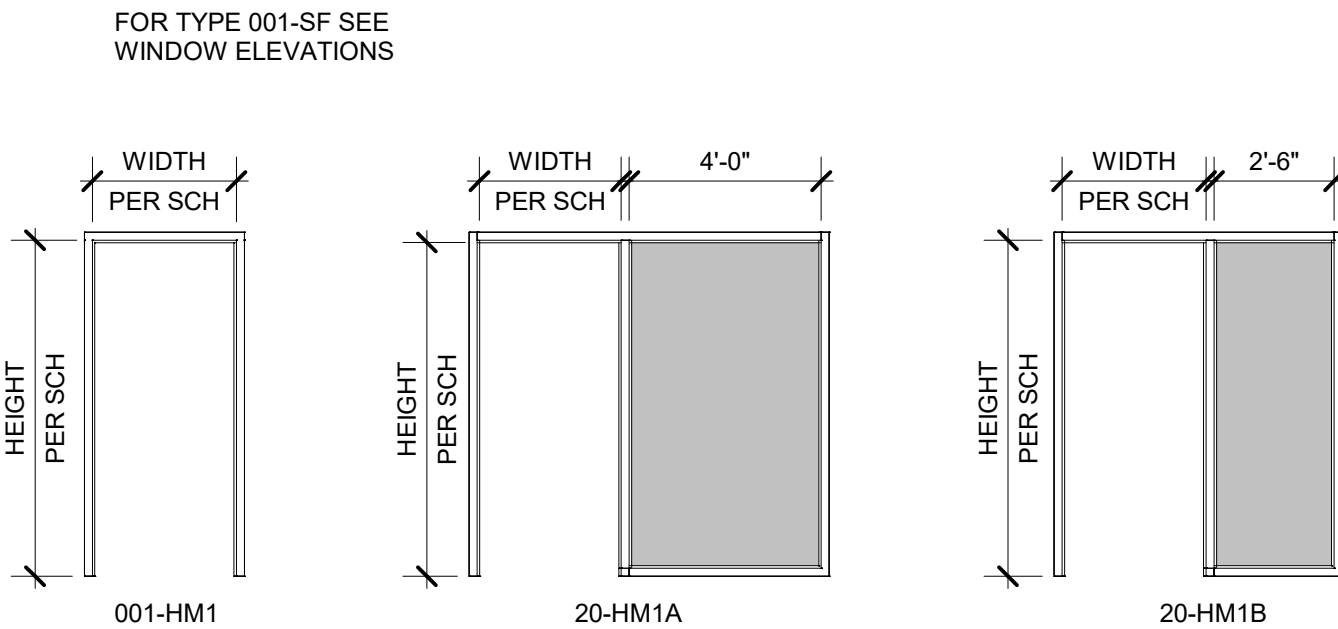
WINDOW TYPES



PANEL TYPES



FRAME TYPES



MATERIAL LEGEND

MATERIAL (MTL)

AL	ALUMINUM
EX	EXISTING
GL	GLASS
HM	HOLLOW METAL
SS	STAINLESS STEEL
STL	STEEL
WD	WOOD

FINISH

FF	FACTORY FINISH
PNT	PAINT (AS SCHEDULED)
STN	WOOD STAIN
CLR AND	CLEAR ANODIZED ALUMINUM
PLAM	PLASTIC LAMINATE

NOTE: ALL DOORS ARE UNDERCUT 5/8". PROVIDE 3/4" UNDERCUT AT ALL TOILET ROOM, HOUSEKEEPING (HK), SOILED UTILITY AND LOCKER ROOM DOORS.

GLAZING TYPES

SEE BELOW FOR ALL DOOR, FRAME AND WINDOW GLAZING TYPES

GL-1	INSULATED LOW-E GLASS
GL-2	LAMINATED TEMPERED GLAZING
GL-3	SPANDREL GLAZING
GL-4	TEMPERED SAFETY GLASS
GL-5	ACOUSTIC LAMINATED GLAZING

FINISH SCHEDULE ABBREVIATIONS

FLOOR

CON - SEALED CONCRETE FLOOR

CPT - CARPET TILE

CT - CERAMIC TILE

LVT - LUXURY VINYL TILE

BASE

RB - RUBBER BASE

MCB - METAL COVED BASE

WALL

GYP - GYPSUM BOARD

PT - PAINT

FRP - FRP WALL PANELING

CT - CERAMIC TILE

MISCELLANEOUS

CG - CORNER GUARD

M - FRAMELESS MIRROR

WB - WHITEBOARD

WS - WINDOW SHADE

San Rafael City Schools



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FIRE SPRINKLER NOTES									
<div>1. INSTALLATION SHALL CONFORM TO THE FOLLOWING CODES. A. BUILDING: NFPA 13 (2022) B. INSPECTION, TESTING AND MAINTENANCE OF WATER BASED FIRE PROTECTION SYSTEMS (WITH CALIFORNIA AMENDMENTS): NFPA 25 (2013 CA EDITION) C. PUBLIC SAFETY: C.C.R. TITLE 19, STATE FIRE MARSHAL</div> <div>2. PROVIDE EARTHQUAKE BRACING PER NFPA 13 (2022) CHAPTER 18.5.</div> <div>3. NFPA 13 (2022) CH. 18.4.1: CLEARANCE SHALL BE PROVIDED AROUND ALL PIPING EXTENDING THROUGH WALLS, FLOOR, PLATFORM AND FOUNDATION, INCLUDING DRAINS, FIRE DEPARTMENT CONNECTIONS, AND OTHER AUXILIARY PIPING.</div> <div>4. NFPA 13 (2022) CH. 6.10.2.1: UNDERGROUND MAINS AND LEAD-IN CONNECTIONS TO SYSTEM RISER SHALL BE COMPLETELY FLUSHED BEFORE CONNECTION IS MADE TO OVERHEAD SPRINKLER PIPING SYSTEMS (WITNESSED BY THE INSPECTOR OF RECORD).</div> <div>5. NFPA 13 (2022) CH. 6.10.2.2.1: ALL 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 THE INSPECTOR OF RECORD). LOCAL FIRE DEPARTMENT SHALL BE NOTIFIED OF DATE AND TESTING SO THAT THEY MAY OBSERVE TESTING.</div> <div>6. NFPA 13 (2022) CH. 16.2.7: PROVIDE SPARE SPRINKLER HEAD CABINET, SPRINKLER WRENCH AND NO FEWER THAN 6 SPARE SPRINKLER HEADS MATCHING THE TYPES AND TEMPERATURE RATING IN EACH PROTECTED BUILDING FOR SYSTEMS LESS THAN 300 SPRINKLERS (12 SPARE SPRINKLER HEADS FOR SYSTEMS 300 TO 1000 SPRINKLERS). MOUNT CABINET 5 FT.-6 FT. A.F.F. NEAR SYSTEM RISER.</div> <div>7. NFPA 13 (2022) CH. 18.6.3: THE END SPRINKLER ON A LINE SHALL BE RESTRAINED.</div> <div>8. NFPA 13 (2022) CH. 18.6.1: PROVIDE RESTRAIN OF BRANCH LINES BY USE OF ONE OF THE FOLLOWING: 1) LISTED SWAY BRACE ASSEMBLY 2) WRAP AROUND U-HOOK SATISFYING THE REQUIREMENTS OF 18.5.5.11 3) NUMBER 12, 440 LB WIRE INSTALLED AT LEAST 45 DEGREES FROM THE VERTICAL PLANE AND ANCHORED ON BOTH SIDE OF THE PIPE.</div> <div>9. NFPA 72 CH. 5.7.2: SPRINKLER FLOW SWITCH SHALL BE TESTED BY INSPECTOR OF RECORD TO CONFIRM THAT WHEN THE INSPECTOR'S TEST VALVE IS ACTIVATED AN ALARM WILL SOUND NO LESS THAN 20 SECONDS AND NOT MORE THAN 90 SECONDS AFTER INITIAL FLOW. INSPECTOR'S TEST PIPING SHALL DISCHARGE TO EXTERIOR.</div> <div>10. NFPA 13 (2022) CH. 16.11.3.1: THE ALARM APPARATUS FOR A WET PIPE SYSTEM SHALL CONSIST OF A LISTED ALARM CHECK VALVE OR OTHER LISTED WATERFLOW DETECTION ALARM DEVICE WITH THE NECESSARY ATTACHMENTS REQUIRED TO GIVE AN ALARM.</div> <div>11. NFPA 13 (2022) FIGURE A.16.11.2: APPROVED IDENTIFICATION SIGNS SHALL BE PROVIDED FOR OUTSIDE ALARM BELL WHICH STATES: "SPRINKLER FIRE ALARM - WHEN BELL RINGS CALL 911 / FIRE DEPARTMENT"</div> <div>12. NFPA 13 (2022) FIGURE A.29.4: A PERMANENT HYDRAULIC DESIGN DATA PLACARD SHALL BE ATTACHED TO EACH RISER.</div> <div>13. NFPA 13 (2022) FIGURE A29.1: SPRINKLER CONTRACTOR (C-16) SHALL COMPLETE AND SIGN "CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR ABOVEGROUND PIPING". THIS FORM SHALL BE GIVEN TO THE INSPECTOR OF RECORD WHO WILL TURN-IN FOR DSA RECORDS.</div> <div>14. NFPA 24 (2019) FIGURE 10.10.1: SPRINKLER CONTRACTOR (C-16) SHALL COMPLETE AND SIGN "CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR UNDERGROUND PIPING" AND DISTRIBUTE PER NFPA 24 CH. 10.10.1 AND NFPA 13 CH. 10.10.1.</div> <div>15. NFPA 13 (2022) CH. 29.2.3.4: THE MAIN DRAIN VALVE SHALL BE OPEN AND REMAIN OPEN UNTIL THE SYSTEM PRESSURE STABILIZES. THE STATIC AND RESIDUAL PRESSURES SHALL BE RECORDED ON THE CONTRACTOR'S MATERIAL AND TEST CERTIFICATE (WITNESSED BY INSPECTOR OF RECORD). MAIN DRAIN SHALL DISCHARGE TO EXTERIOR.</div> <div>16. TITLE 19 ARTICLE 906(A): A LABEL OF THE SELF ADHESIVE TYPE SHALL BE PLACED ON THE FIRE DEPARTMENT CONNECTION OR ON THE RISER FOR FIRE SPRINKLER SYSTEM WITH THE DATE OF SERVICE AND/OR DATE INSTALLATION WAS PERFORMED AND LICENSE NUMBER OF PERSON PERFORMING SERVICE WORK.</div> <div>17. CAUTION SIGNS SHALL BE ATTACHED TO ALL VALVES CONTROLLING SPRINKLERS. THE CAUTION SIGN SHALL BE WORDED AS FOLLOWS: "THIS VALVE CONTROLS FIRE PROTECTION EQUIPMENT. DO NOT CLOSE UNTIL AFTER FIRE HAS BEEN EXTINGUISHED. USE AUXILIARY VALVES WHEN NECESSARY TO SHUT OFF SUPPLY TO AUXILIARY EQUIPMENT. CAUTION: AUTOMATIC ALARM MAY BE SOUNDED IF THIS VALVE IS CLOSED"</div> <div>18. NFPA 13 (2022) CH. 16.12.5.8.1: EACH FIRE DEPARTMENT CONNECTION TO SPRINKLER SYSTEMS SHALL BE DESIGNATED BY A SIGN HAVING RAISED OR ENGRAVED LETTERS AT LEAST 1 IN. IN HEIGHT ON PLATE OR FITTING READING SERVICE DESIGN.</div> <div>19. CBC (2022) CH. 904.4.3: CONNECTIONS TO PROTECTED PREMISES AND SUPERVISING STATION FIRE ALARM SYSTEMS SHALL BE TESTED TO VERIFY PROPER IDENTIFICATION AND RETRANSMISSION OF ALARMS FROM AUTOMATIC FIRE EXTINGUISHING SYSTEMS. (WITNESSED BY PROJECT ENGINEER).</div> <div>20. CBC (2022) CH. 903.4: MAIN FIRE ALARM PANEL VALVE MONITORING AND WATER FLOW ALARM AND TROUBLE SIGNALS SHALL BE DISTINCTLY DIFFERENT AND SHALL BE AUTOMATICALLY TRANSMITTED TO AN APPROVED CENTRAL STATION MONITORING COMPANY.</div> <div>21. THE INSPECTOR'S TEST VALVE LOCATION SHALL BE INSTALLED WITHIN THE MOST HYDRAULICALLY REMOTE SYSTEM AREA. THE PIPE SIZE SHALL BE NO LESS THAT 1 INCH WITH A SMOOTH BORE, CORROSION RESISTANT ORIFICE, PROVIDING THE EQUIVALENT FLOW OF THE SMALLEST ORIFICE OF THE SPRINKLER TYPES INSTALLED WITHIN THE SYSTEM. THE DISCHARGE SHALL BE TO THE EXTERIOR OF THE BUILDING.</div> <div>22. PROVIDE AIR-VENTING IN ACCORDANCE WITH NFPA 13.8.1.5.</div>									

SPRINKLER LEGEND									
	SYMBOL	TYPE	RESPONSE	TEMP	K-FACTOR	ORIFICE	MANUFACTURER	MODEL	REMARKS
1	●	PENDENT ON DROP NIPPLE	QUICK	175°F	5.6	1/2"	Viking	MICROFAST MODEL M	W/ VIKING MODEL F-1 ADJUSTABLE ESCUTCHEON
2	○	UPRIGHT ON SPRIG	QUICK	175°F	5.6	1/2"	Viking	MICROFAST MODEL M	
3	◆	CONCEALED PENDENT	QUICK	175°F	5.6	1/2"	Viking	MIRAGE	W/ VIKING STANDARD COVER PLATE- POLISHED CHROME

GENERAL NOTES AND SPECIFICATIONS									
<div>1. ALL WORK SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL CODES, LAWS AND REGULATIONS</div> <div>2. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED UTILITY SERVICES, INSPECTIONS AND PERMITS.</div> <div>3. DESIGN IS BASED ON DRAWINGS PROVIDED BY OWNER. CONTRACTOR SHALL VERIFY ALL MEASUREMENTS ANDIFY OWNER'S REPRESENTATIVE IMMEDIATELY IF A DISCREPANCY BETWEEN THE DRAWING AND THE ACTUAL SITE CONDITION OCCURS. STOP THE WORK THAT IS AFFECTED AND OBTAIN INSTRUCTION FROM THE OWNERS REPRESENTATIVE BEFORE THE WORK CAN BE RESTARTED.</div> <div>4. FURNISH AND INSTALL ALL MATERIAL, EQUIPMENT AND LABOR AS SHOWN AND AS NECESSARY FOR A COMPLETE WORKABLE SYSTEM.</div> <div>5. THE CONTRACT DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT AND LOCATION OF PIPING AND EQUIPMENT. PIPE LENGTHS SHOWN ARE APPROXIMATE CENTER TO CENTER LENGTHS BETWEEN FITTINGS. CONTRACTOR SHALL DETERMINE THE ACTUAL MEASUREMENTS AND MAKE CHANGES AND DEVIATIONS SUCH AS OFFSETS IN PIPES THAT ARE NECESSARY TO MEET SITE CONDITIONS AND TO COORDINATE WORK WITH OTHER TRADES. ALL DEVIATIONS TO THE CONTRACT DOCUMENTS, WHETHER SHOWN OR NOT, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE MADE AT NO EXTRA EXPENSE TO THE OWNER.</div> <div>6. COORDINATE ALL CUTTING AND PATCHING WITH GENERAL CONTRACTOR. INDIVIDUAL SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING TO THEIR WORK.</div> <div>7. CONTRACTOR SHALL RESTORE ALL DAMAGE AND CLEAN THE PREMISES ON A DAILY BASIS.</div> <div>8. CONTRACTOR SHALL GUARANTEE THAT THE WORK DONE UNDER THIS SPECIFICATION WILL BE FREE FROM FAULTY MATERIALS OR WORKMANSHIP AND HEREBY AGREES, UPON RECEIVING NOTIFICATION FROM THE OWNER, AND TO OWNER'S ENTIRE SATISFACTION, TO CORRECT ALL DEFECTS, DAMAGES OR IMPERFECTIONS APPEARING IN SAID WORK FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FILING OF COMPLETION.</div> <div>9. USE ALL NEW MATERIALS. PIPE ARE SCHEDULE 10 FOR 2-1/2" AND LARGER, SCHEDULE 40 FOR 2" AND SMALLER. PIPING OUTSIDE THE BUILDING ARE GALV. STEEL. PIPES 2-1/2" AND LARGER SHOULD NOT BE THREADED.</div> <div>10. HANGERS ARE ADJUSTABLE RING TYPE OR STRAP.</div> <div>11. TO PROVIDE ADEQUATE HEADROOM, THE SPRINKLER PIPING SHALL BE MAINTAINED AS HIGH AS POSSIBLE ABOVE THE FLOOR IN FINISHED AREAS.</div> <div>12. PROVIDE A LOCAL WATER-FLOW ALARM.</div> <div>13. PROVIDE IDENTIFICATION SIGNS AS REQUIRED ON ALL FIRE DEPARTMENT CONNECTIONS, VALVES, PIPES, SPRINKLERS, ETC. INCLUDING "RISER ROOM" SIGN.</div> <div>14. ALL PIPE PENETRATIONS AT WALL AND FLOOR SHALL COMPLY WITH STRUCTURAL DESIGN AND CALIFORNIA BUILDING CODE. OBTAIN APPROVAL TO DRILL HOLES AT STRUCTURAL MEMBERS FROM STRUCTURAL ENGINEER BEFORE COMMENCEMENT OF WORK.</div> <div>15. CONTRACTOR SHALL ENSURE THAT NO LIGHT FIXTURE, SOFFIT OR OTHER CEILING-MOUNTED OBJECT OBSTRUCTS DISCHARGE FROM SPRINKLERS.</div> <div>16. ALL PIPES, FITTINGS AND VALVES SHALL BE PAINTED PER ARCHITECTURAL SPECIFICATIONS. SPRINKLERS SHALL BE FACTORY PAINTED.</div> <div>17. VERIFY OR PROVIDE FIRE ALARMS ACCEPTABLE TO FIRE DEPT. OBTAIN ALL REQUIRED PERMITS PRIOR TO START OF CONSTRUCTION.</div> <div>18. PROVIDE CENTRAL ALARM SYSTEM MONITORED BY A CENTRAL ALARM COMPANY. THIS MONITORED SYSTEM SHALL INCLUDE WATER FLOW INDICATORS AND TAMPER SWITCHES ON ALL CONTROL VALVES. EACH BUILDING SHALL BE PROVIDED THE CENTRAL ALARM SYSTEM INDIVIDUALLY. COORDINATE ENTIRE INSTALLATION WITH OWNER-SELECTED MONITORING CO.</div> <div>19. PROVIDE OWNER WITH TWO (2) SETS OF AS-BUILT DRAWINGS AND TWO (2) BOUND SETS OF ALL OPERATING MANUALS, TESTING INSTRUCTIONS, DIAGRAMS, SERVICE CONTRACTS, GUARANTEES, ETC.</div>									

SCOPE OF WORK									
MODIFICATION OF EXISTING FIRE SPRINKLER SYSTEM TO MATCH THE NEW LAYOUTS AND REFLECTED CEILINGS. REMOVE ALL EXISTING PENDENT HEADS AS SHOWN IN DEMO PLANS. INSTALL CONCEALED PENDENT HEADS ON THE NEW CEILINGS AS SHOWN.									

SHEET INDEX									
F-001	FIRE PROTECTION NOTES, SYMBOLS								
FD-101	FIRE PROTECTION DEMOLITION PLANS								
F-101	FIRE PROTECTION FLOOR PLANS								
F-401	FIRE PROTECTION SECTION AND DETAILS								

ABBREVIATIONS									
A.P.	ACCESS PANEL	MAX.	MAXIMUM						
A.F.F.	ABOVE FINISHED FLOOR	MIN.	MINIMUM						
A.F.G.	ABOVE FINISHED GRADE	N.I.C.	NOT IN CONTRACT						
BEL	BELOW	OS&Y	OUTSIDE SCREW & YOKE						
B.O.R.	BOTTOM OF RISER	PIV	POST INDICATOR VALVE						
CLG.	CEILING	RN	RISER NIPPLE						
DN.	DOWN	S.A.D.	SEE ARCHITECTURAL DRAWINGS						
DR	DROP NIPPLE	S.C.D.	SEE CIVIL DRAWINGS						
DSA	DIVISION OF THE STATE ARCHITECT	S.M.D.	SEE MECHANICAL DRAWINGS						
DSP	DRY STAND PIPE	S.P.D.	SEE PLUMBING DRAWINGS						
(E)	EXISTING	SSD	SEE STRUTURAL DRAWINGS						
FDC	FIRE DEPARTMENT CONNECTION	S/W	SWITCH						
FIG.	FIGURE	T.O.R.	TOP OF RISER						
FR.	FROM	TYP.	TYPICAL						
HT.	HEIGHT	U.G.	UNDERGROUND						
H.V.	HOSE VALVE	U.O.N.	UNLESS OTHERWISE NOTED						
		W/	WITH						

SYMBOLS LEGEND		
PIPE HANGER		
END OF LINE SUPPORT		
BRANCH LINE SUPPORT		
2-WAY SWAY BRACE		
4-WAY RISER SWAY BRACE		
FIRE ALARM BELL		
AUTOMATIC FIRE SPRINKLER RISER		
PIPE RISERS		
HYDRAULIC CALCULATION REFERENCE POINTS		
INSPECTOR'S TEST VALVE		
PIPE CAP		
FIRE PROTECTION PIPE:	DIAMETER APPROXIMATE LENGTH	1-1/2" 12'-6"
FIRE SPRINKLER HEAD LOCATION		
SPRINKLER PIPE		
UNDERGROUND PIPE		
EXISTING PIPE		
DEMO HEAD		
DEMO PIPE		

San Rafael City Schools



310 Nova Ablon Way, San Rafael, CA 94903

SRCS Wellness & Restroom Modernization

320 Nova Ablon Way, San Rafael, CA 94903

Date Issued For 02/16/2024 DSA Resubmittal



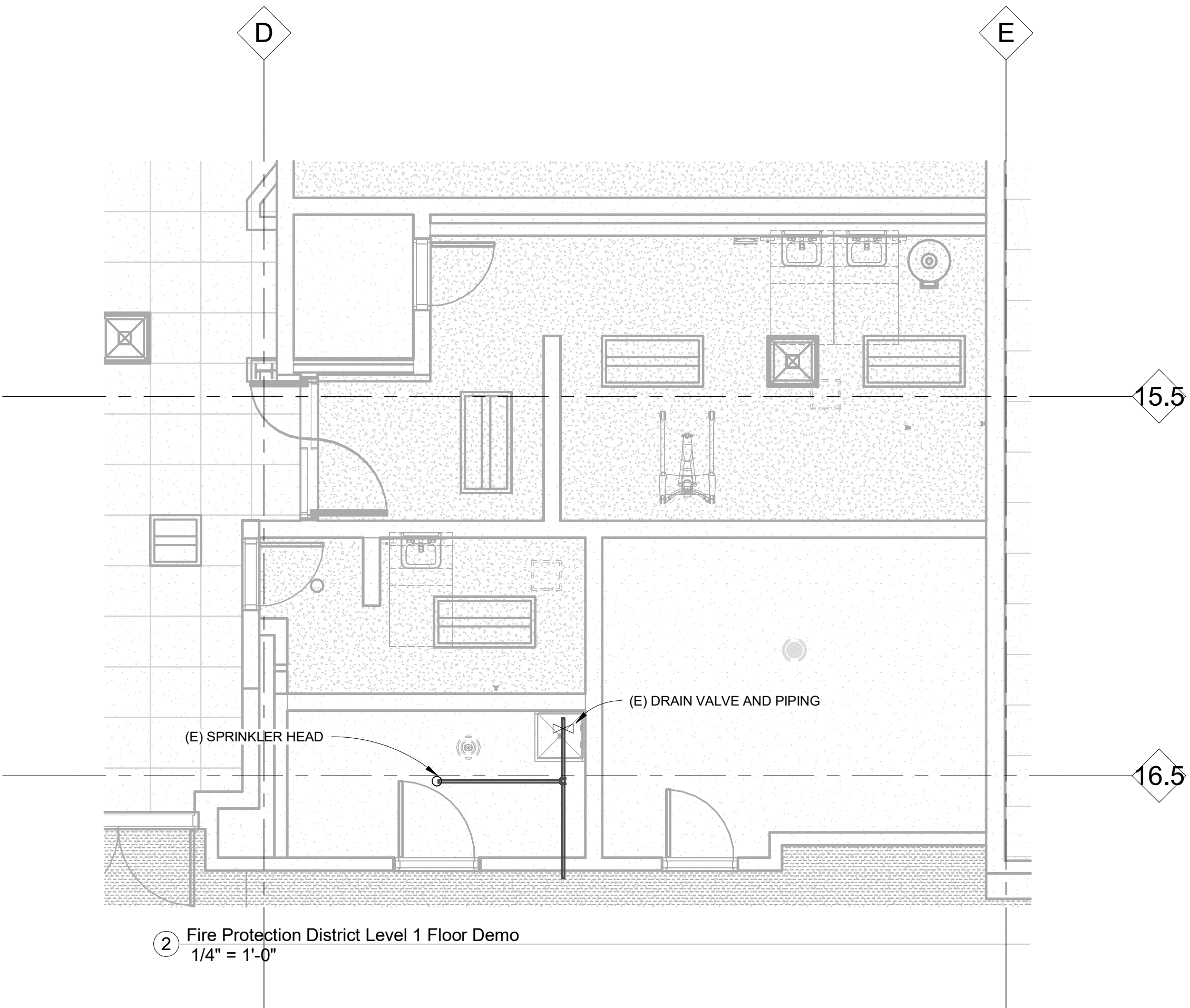
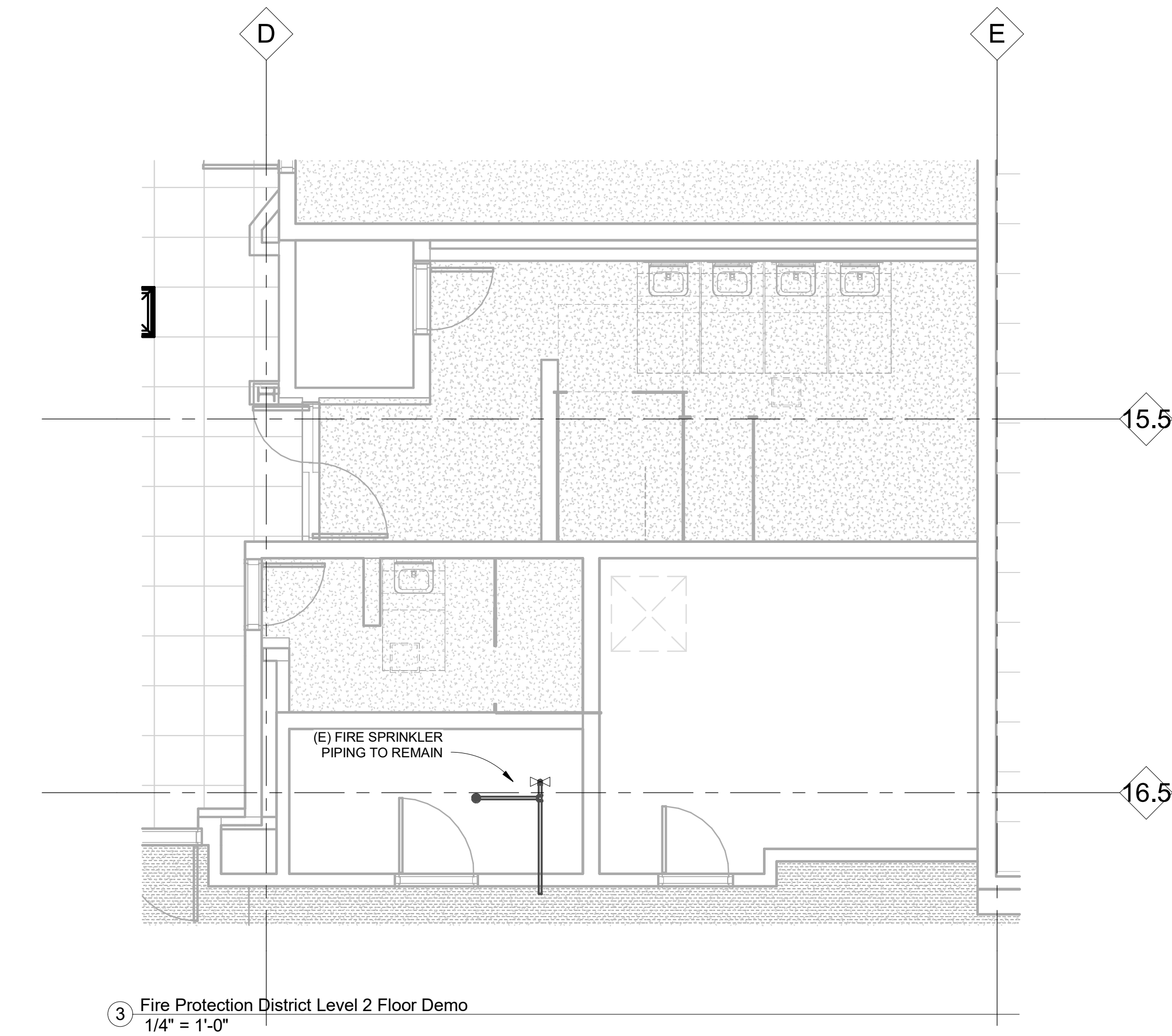
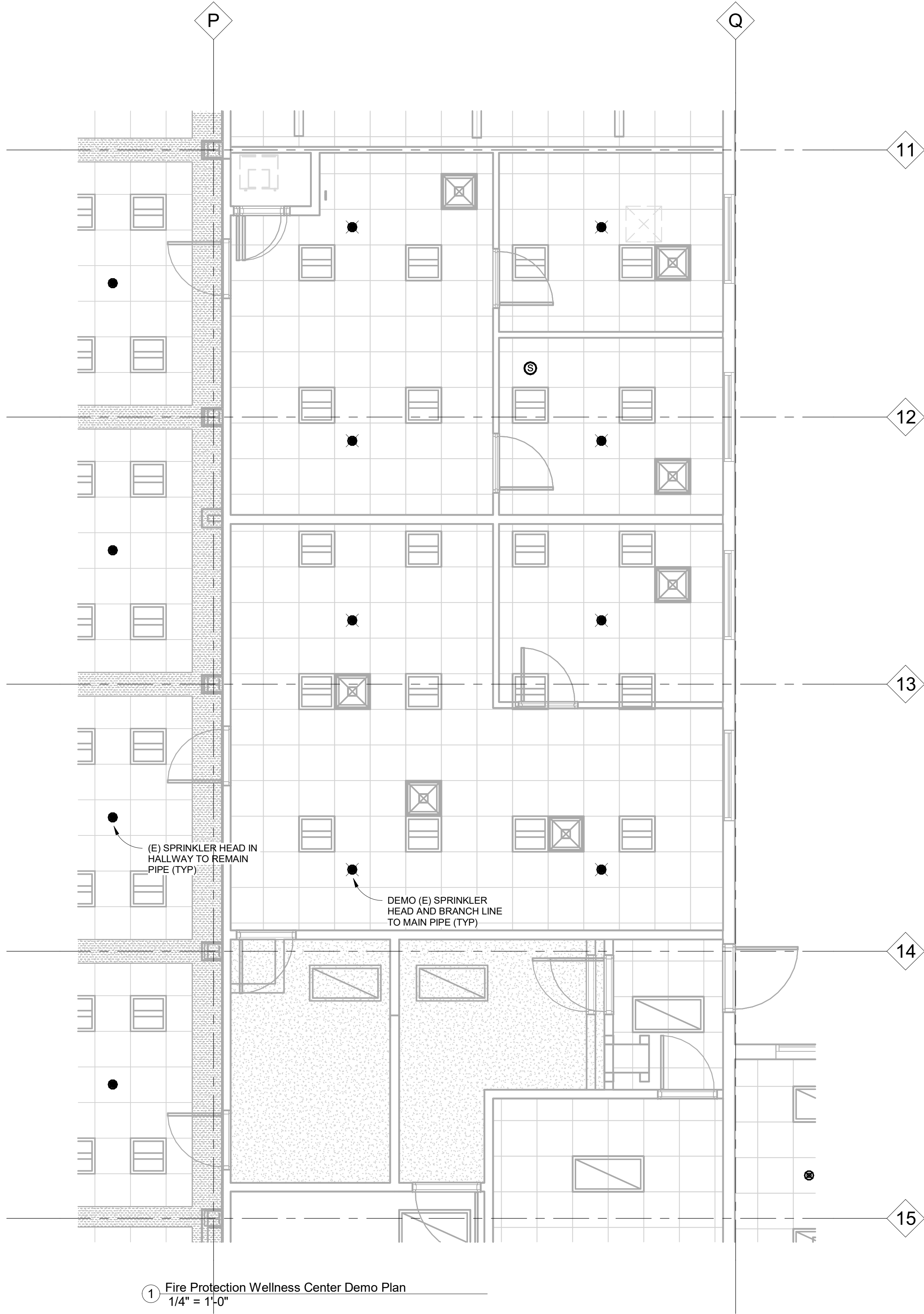
HED

417 Montgomery Street Suite 400 San Francisco, California 94104 USA (415) 981-2345 WWW.HED.DESIGN



2023-SR001-002

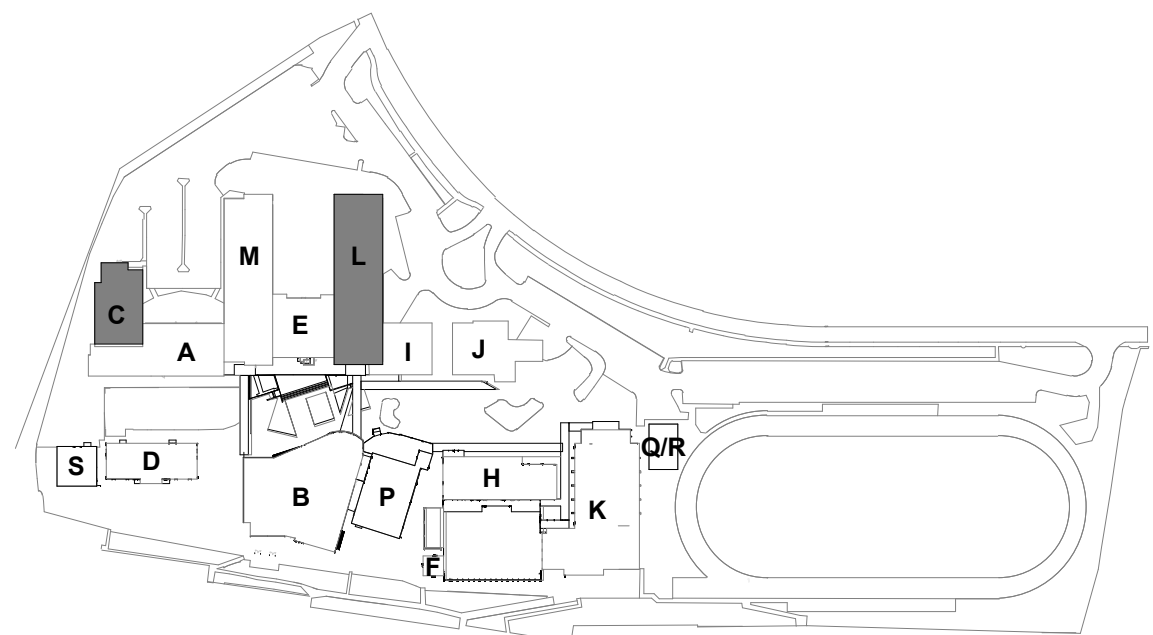
Fire Protection notes, symbols



1. PROVIDE SPRINKLER GUARDS IN ALL AREAS OF LOW CEILINGS, OR WHERE SUBJECT TO PHYSICAL EDUCATION ACTIVITIES.
2. DRAWINGS INDICATE GENERAL ARRANGEMENT OF PIPING AND EQUIPMENT. SHOULD IT BE NECESSARY TO DEVIATE FROM ARRANGEMENT OR LOCATION INDICATED IN ORDER TO MEET ARCHITECTURAL CONDITIONS OR SITE CONDITIONS, OR DUE TO INTERFERENCE WITH WORK IN OTHER DIVISIONS, SUCH DEVIATIONS AS OFFSETS, RISES, OR DROPS IN PIPING THAT MAY BE NECESSARY, WHETHER SHOWN OR NOT, SHALL BE MADE AT CONTRACTOR'S EXPENSE.
3. CHANGES SHALL BE REVIEWED AND APPROVED BY DSA.
4. CONTRACTOR TO VERIFY THE EXISTING PIPES LOCATION IN FIELD.

SYMBOLS LEGEND					
PIPE HANGER					
END OF LINE SUPPORT					
BRANCH LINE SUPPORT					
2-WAY SWAY BRACE					
4-WAY RISER SWAY BRACE					
FIRE ALARM BELL					
AUTOMATIC FIRE SPRINKLER RISER					
PIPE RISERS					
HYDRAULIC CALCULATION REFERENCE POINTS					
INSPECTOR'S TEST VALVE					
PIPE CAP					
FIRE PROTECTION PIPE:	<table><tr><td>DIAMETER</td><td>1-1/2"</td></tr><tr><td>APPROXIMATE LENGTH</td><td>12'-6"</td></tr></table>	DIAMETER	1-1/2"	APPROXIMATE LENGTH	12'-6"
DIAMETER	1-1/2"				
APPROXIMATE LENGTH	12'-6"				
FIRE SPRINKLER HEAD LOCATION					
ABOVEGROUND PIPE CONCEALED					
ABOVEGROUND PIPE EXPOSED					
UNDERGROUND PIPE					
EXISTING PIPE					
DEMO PIPE					
EXISTING PENDENT SPRINKLER HEAD TO BE DEMO					

KEY PLAN



San Rafael City Schools



310 Nova Ablon Way, San Rafael, CA 94903

SRCS Wellness & Restroom Modernization

320 Nova Ablon Way, San Rafael, CA 94903

Date Issued For
02/16/2024 DSA Resubmittal



8517 Earhart Rd, Suite 230
Oakland, CA 94621
510-569-2000



417 Montgomery Street
Suite 400
San Francisco, California
94104 USA

(415) 981-2345
WWW.HED.DESIGN



2023-SR001-002

Fire Protection Demolition Plans

FD-101

ALL BRANCH LINE PIPE SIZES AND LENGTHS NOT INDICATED ON THE FLOOR PLANS ARE BASED ON THE TYPICAL BRANCH LINE PIPE SIZES AND LENGTHS AS INDICATED WITHIN THE SAME FLOOR OR COMPARTMENT.

SPRINKLER LEGEND											
SYMBOL	QUANTITY	TYPE	RESPONSE	TEMP	K-FACTOR	ORIFICE	MANUFACTURER	MODEL	S/N	FINISH	REMARKS
1	x	PENDENT ON DROP NIPPLE	QUICK	175°F	5.6	1/2"	Viking	MICROFAST MODEL M	VK302	CHROME	W/ VIKING MODEL F-1 ADJUSTABLE ESCUTCHEON
2	x	UPRIGHT ON SPRIG	QUICK	175°F	5.6	1/2"	Viking	MICROFAST MODEL M	VK300	BRASS	
3	x	CONCEALED PENDENT	QUICK	175°F	5.6	1/2"	Viking	MIRAGE	VK462	BRASS	W/ VIKING STANDARD COVER PLATE- POLISHED CHROME

1. PROVIDE SPRINKLER GUARDS IN ALL AREAS OF LOW CEILINGS, OR WHERE SUBJECT TO PHYSICAL EDUCATION ACTIVITIES.
2. DRAWINGS INDICATE GENERAL ARRANGEMENT OF PIPING AND EQUIPMENT. SHOULD IT BE NECESSARY TO DEVIATE FROM ARRANGEMENT OR LOCATION INDICATED IN ORDER TO MEET ARCHITECTURAL CONDITIONS OR SITE CONDITIONS, OR DUE TO INTERFERENCE WITH WORK IN OTHER DIVISIONS, SUCH DEVIATIONS AS OFFSETS, RISES, OR DROPS IN PIPING THAT MAY BE NECESSARY, WHETHER SHOWN OR NOT, SHALL BE MADE AT CONTRACTOR'S EXPENSE.
3. CHANGES SHALL BE REVIEWED AND APPROVED BY DSA.
4. CONTRACTOR TO VERIFY THE EXISTING PIPES LOCATION IN FIELD.

SYMBOLS LEGEND	
PIPE HANGER	—/—
END OF LINE SUPPORT	—X—
BRANCH LINE SUPPORT	—X—
2-WAY SWAY BRACE	↔↕
4-WAY RISER SWAY BRACE	↔↕↖↗
FIRE ALARM BELL	⬤
AUTOMATIC FIRE SPRINKLER RISER	⊙
PIPE RISERS	○ — — — — —
HYDRAULIC CALCULATION REFERENCE POINTS	#
INSPECTOR'S TEST VALVE	⊕
PIPE CAP	⌈
FIRE PROTECTION PIPE:	DIAMETER 1-1/2" APPROXIMATE LENGTH 12'-6"
FIRE SPRINKLER HEAD LOCATION	⊕ 12'-6"
ABOVEGROUND PIPE CONCEALED	—
ABOVEGROUND PIPE EXPOSED	----
UNDERGROUND PIPE	---
EXISTING PIPE
DEMO PIPE	-X-X-X-
EXISTING PENDENT SPRINKLER HEAD TO BE DEMO	X

San Rafael City Schools

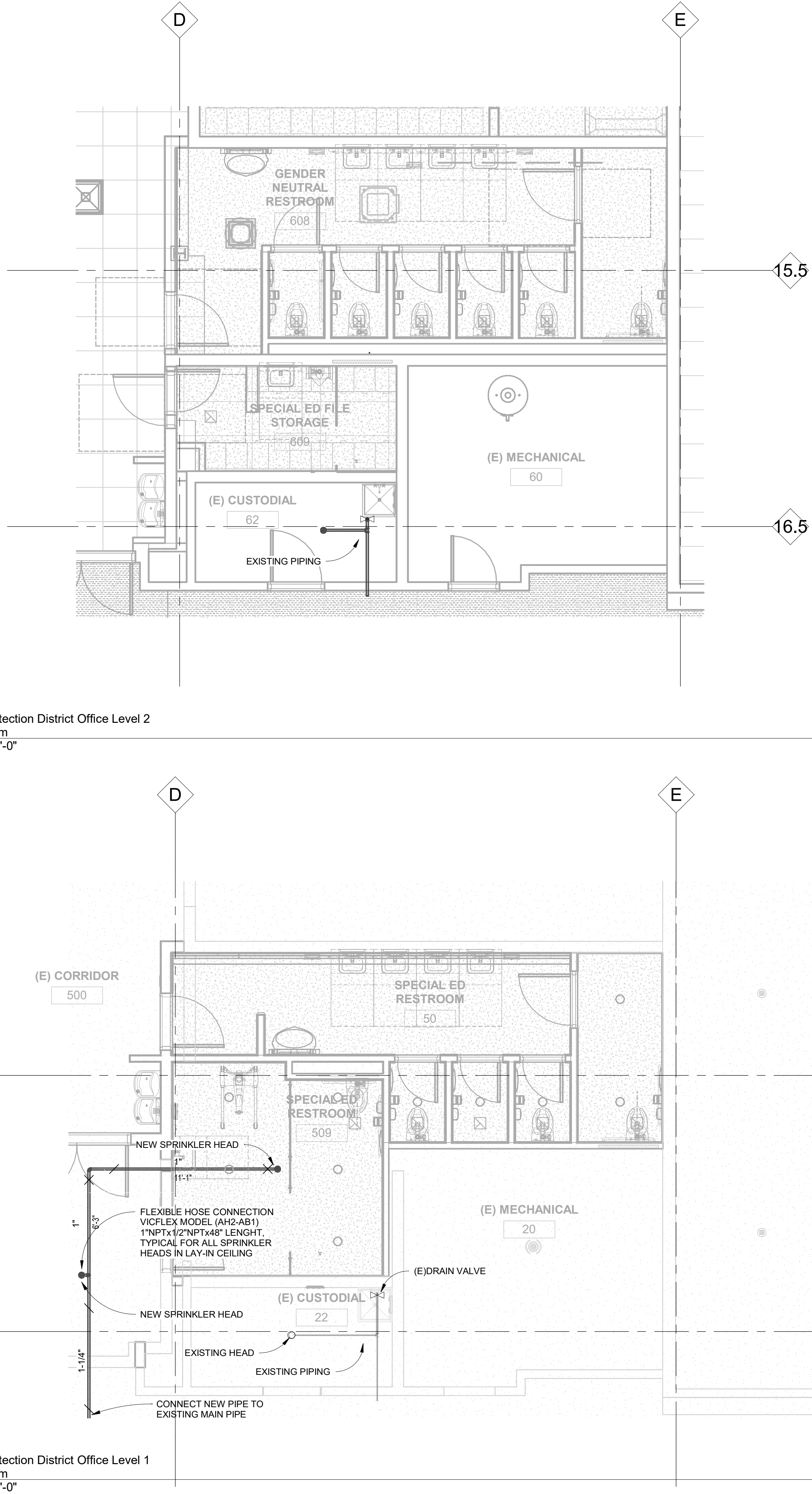
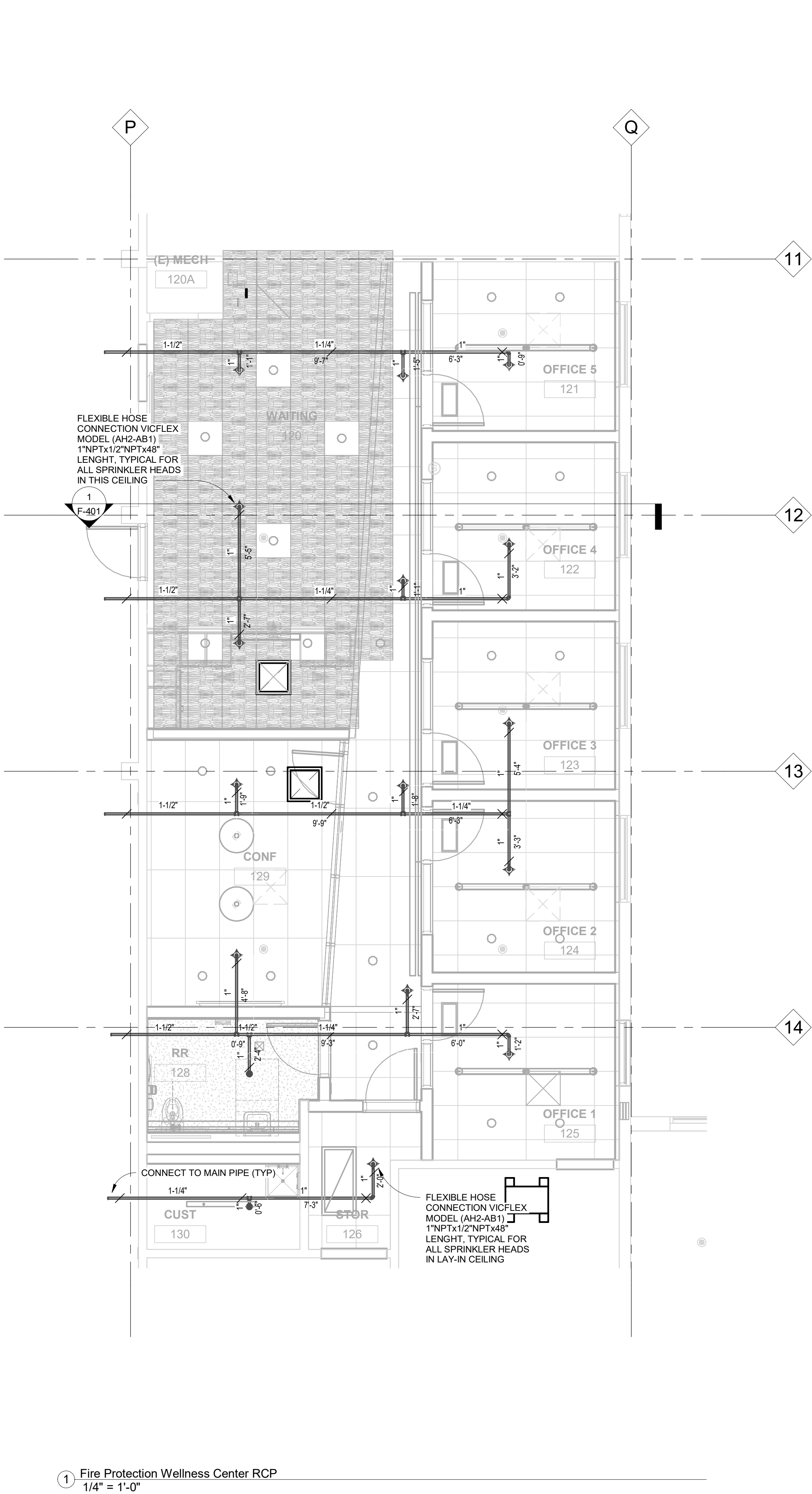


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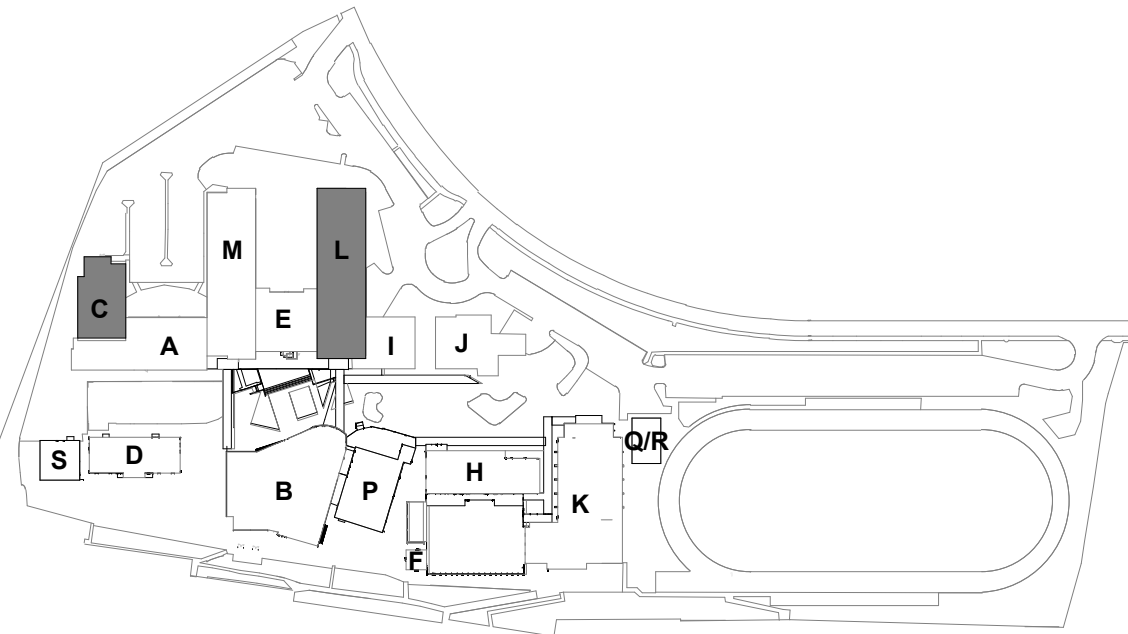
SRCS Wellness & Restroom Modernization

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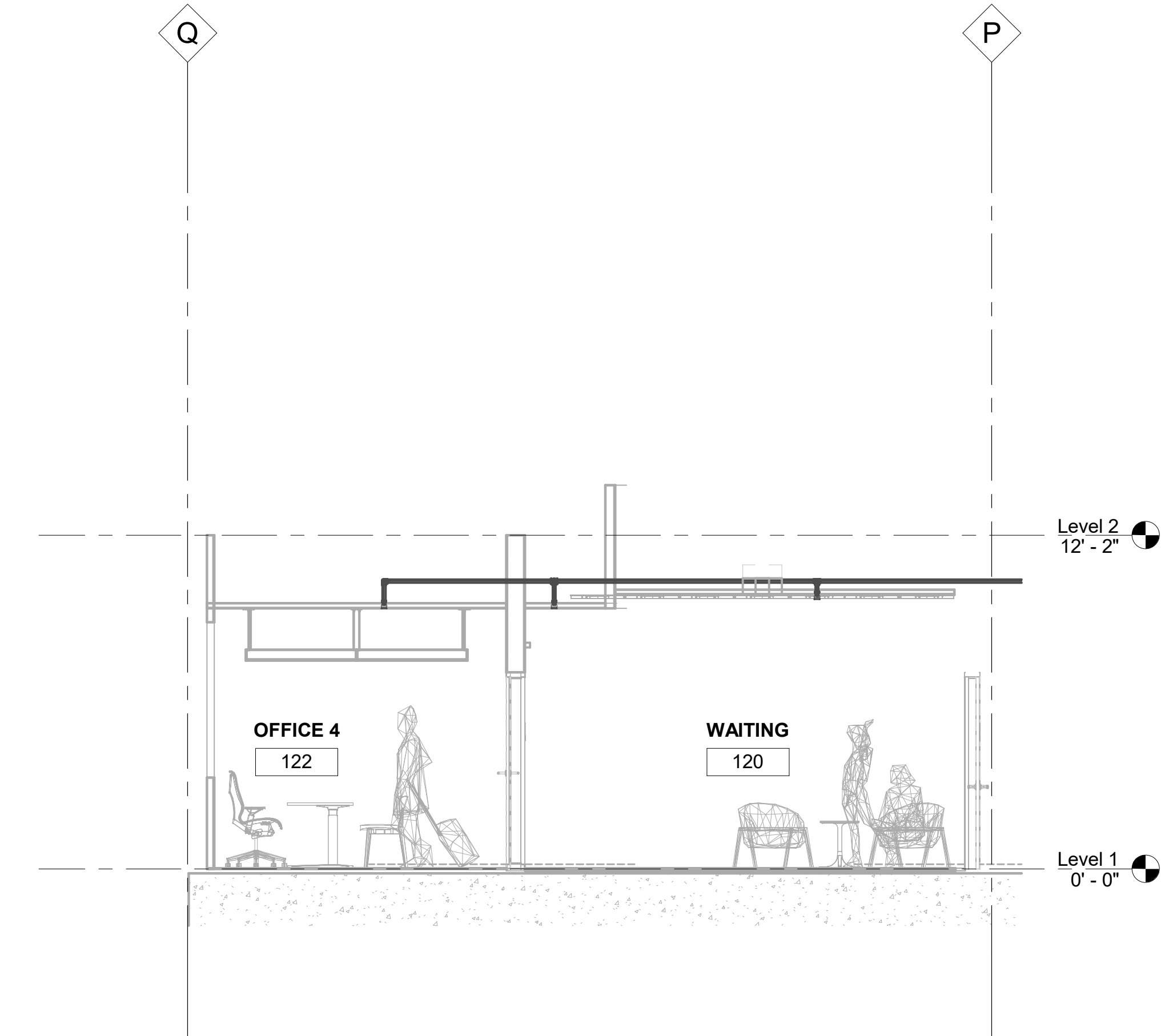


KEY PLAN

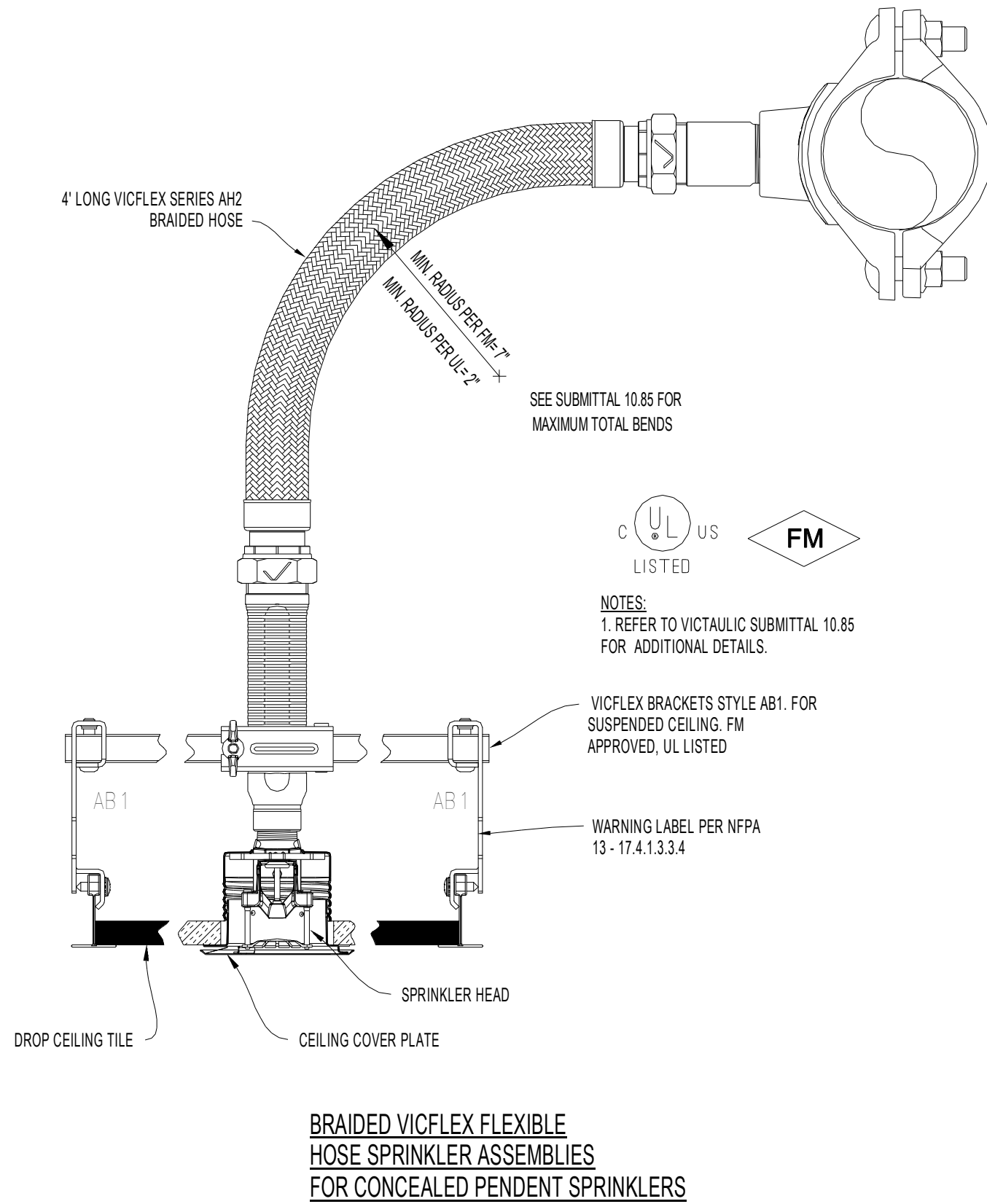


Fire Protection Floor Plans

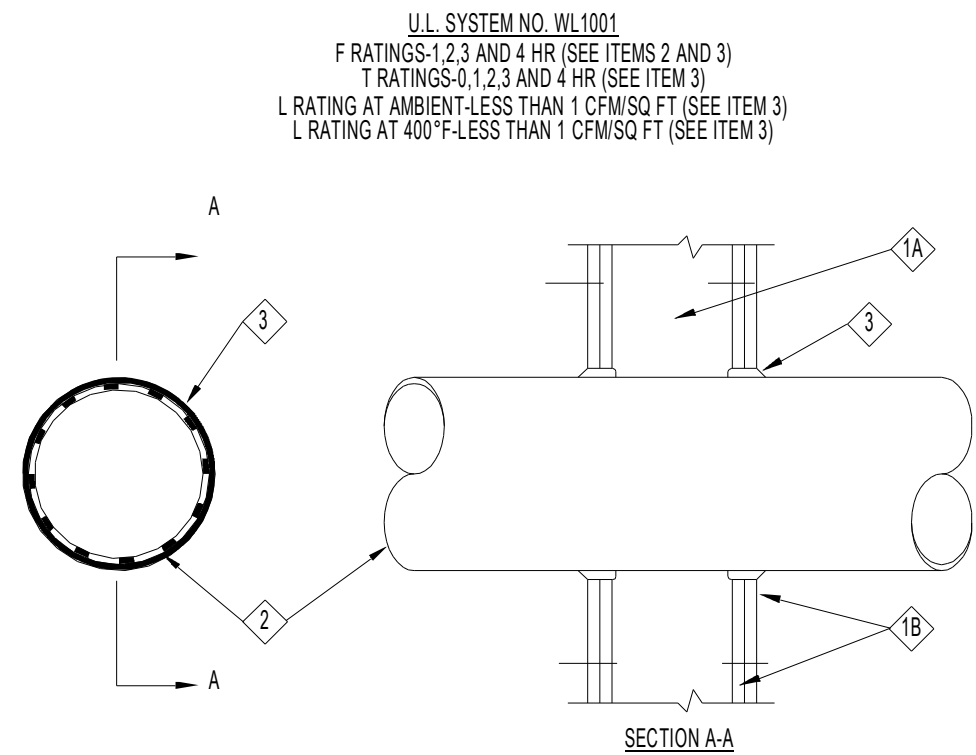
F-101



1 Fire Protection Wellness Center Section
1/4" = 1'-0"

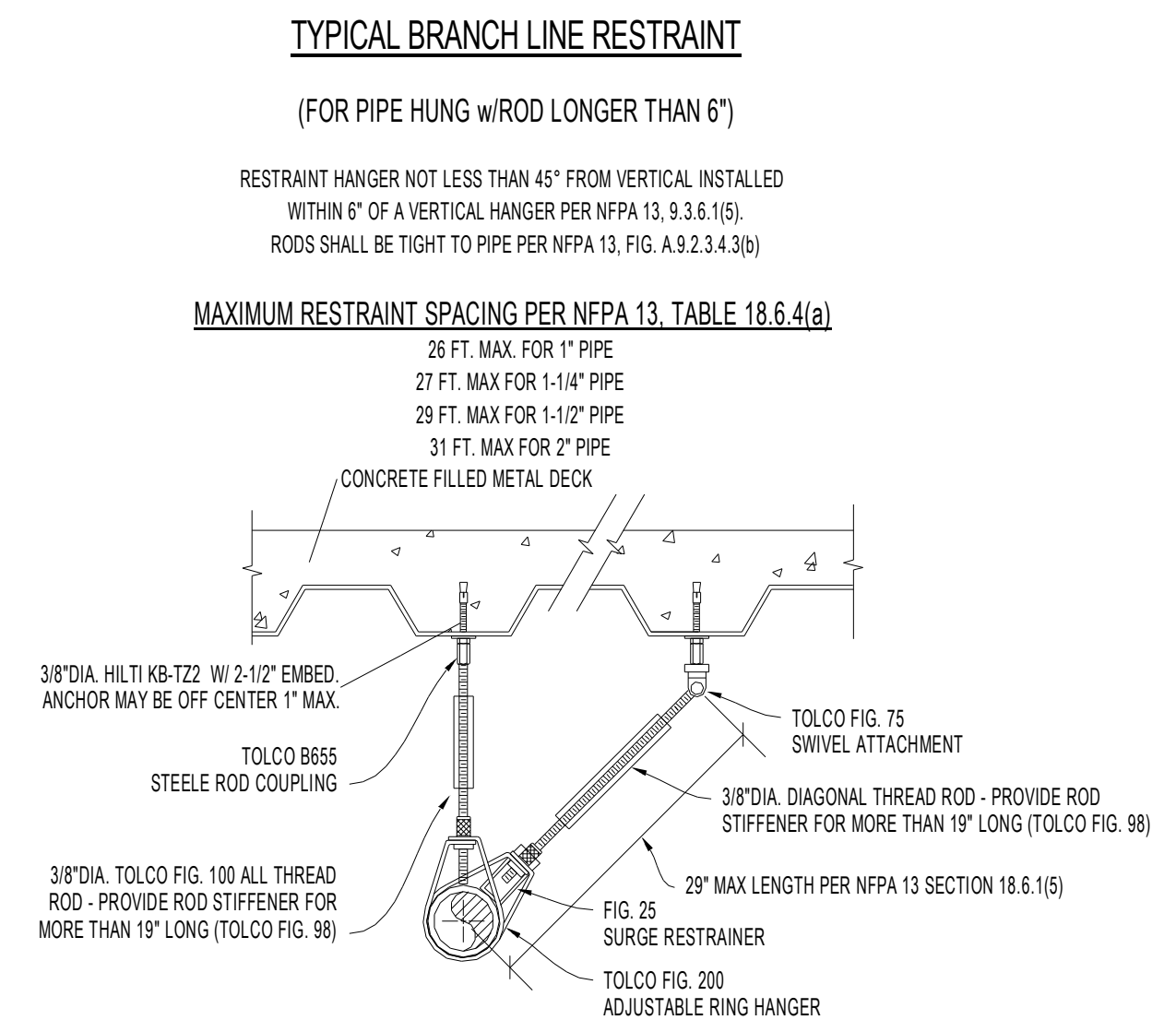


6 SPRINKLER HEAD DETAIL - CEILING PENETRATION
NO SCALE

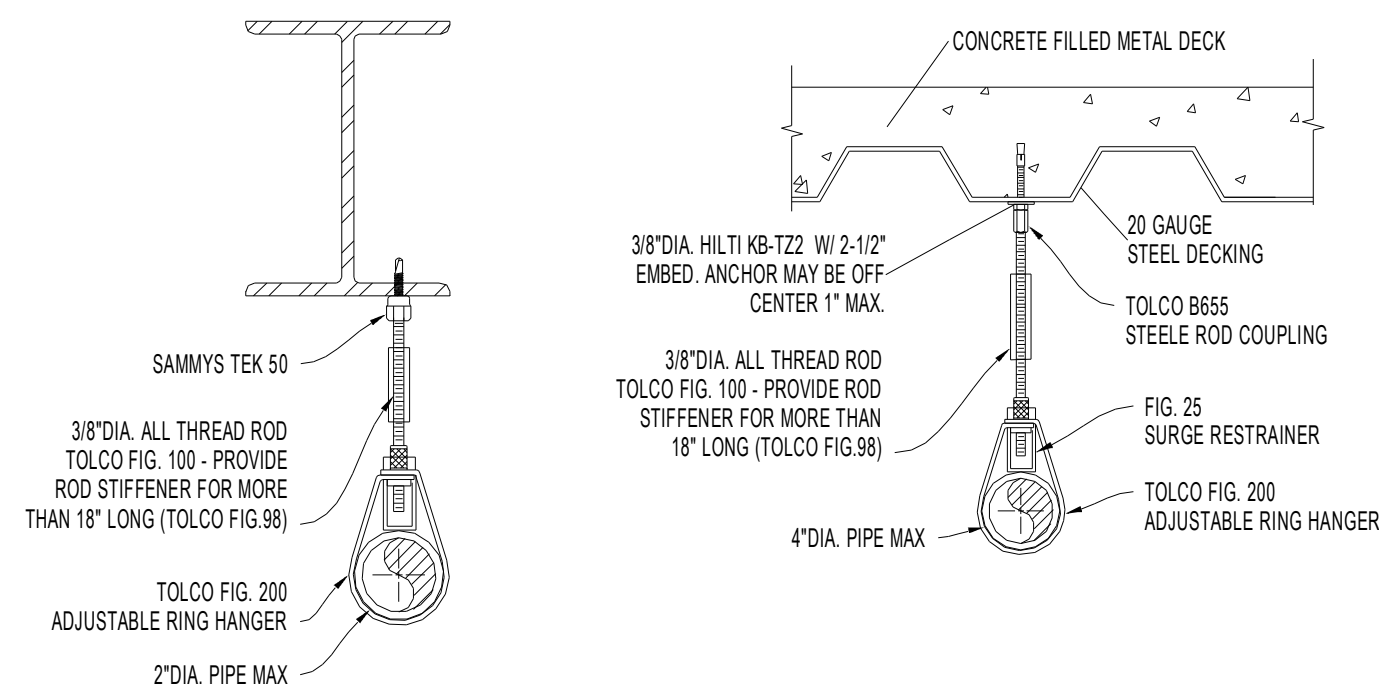


1. WALL ASSEMBLY - THE 1, 2, 3 OR 4 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL ULSD OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
- A. STUDS, WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS, MAX 2 1/2" FIRE-RATED ASSEMBLY OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 1/2" X 4" IN. LUMBER SPACED 16 IN. OC WITH NOM 2 1/2" X 4" IN. LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3/8" IN. WIDE BY 1 3/8" IN. DEEP CHANNELS SPACED MAX 24 IN. OC. DO NOT CUT EXISTING STUDS.
- B. WALLBOARD, GYPSUM - NOM 1/2" OR 5/8" IN. THICK, 4 FT. WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL ULSD OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 12 1/2" IN.
2. PIPE OR CONDUIT - NOM 12 IN. DIAM (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL PIPE, NOM 12 IN. DIAM (OR SMALLER) SERVICE HESIT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 12 IN. DIAM (OR SMALLER) CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE, NOM 12 IN. DIAM (OR SMALLER) STEEL CONDUIT, NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR TYPE L (OR HEAVIER) COPPER TUBING OR NOM 1 IN. DIAM (OR SMALLER) FLEXIBLE STEEL CONDUIT. WHEN COPPER PIPE OR FLEXIBLE STEEL CONDUIT IS USED, MAX F RATING OF FIRESTOP SYSTEM (ITEM 3) IS 1 H. STEEL PIPES OR CONDUITS LARGER THAN NOM 4 IN. DIAM MAY ONLY BE USED IN WALLS CONSTRUCTED USING STEEL CHANNEL STUDS. A MAX OF ONE PIPE OR CONDUIT IS PERMITTED IN THE FIRESTOP SYSTEM. PIPE OR CONDUIT TO BE INSTALLED NEAR CENTER OF STUD CAVITY WIDTH AND TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.
3. FILL VOID OR CAVITY MATERIAL - CAULK. CAULK FILL MATERIAL INSTALLED TO COMPLETELY FILL ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND GYPSUM WALLBOARD AND WITH A MIN 1/4" IN. DIAM BEAD OF CAULK APPLIED TO PERIMETER OF PIPE OR CONDUIT AT ITS EDGES FROM THE WALL. CAULK INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW.
- | MAX PIPE OR CONDUIT DIAM IN. | ANNULAR SPACE IN. | F RATING HR. | T RATING HR. |
|------------------------------|-------------------|--------------|--------------|
| 1 | 0 TO 3/16 | 1 OR 2 | 0 1/2 OR 2 |
| 1 | 3/16 TO 1/2 | 3 OR 4 | 3 OR 4 |
| 4 | 0 TO 1/4 | 1 OR 2 | 0 |
| 4 | 1/4 TO 1/2 | 1 OR 2 | 0 |
| 6 | 1/4 TO 1/2 | 3 OR 4 | 0 |
| 12 | 3/16 TO 3/8 | 1 OR 2 | 0 |
- * WHEN COPPER PIPE IS USED, T RATING IS 0 H.
#0 TO 1/2 IN. ANNULAR SPACE APPLIES ONLY WHEN TYPE CP-25 WB-CAULK IS USED.
MINNESOTA MINING & MFG. CO. - TYPES CP-15, SU, CP-25, NS, CP-25 WB, CP-25 WB* (NOTE: L RATING APPLIES ONLY WHEN TYPE CP-25 WB-CAULK IS USED.)
*BEARING THE UL CLASSIFICATION MARKING

5 PIPE THROUGH FIRE-RATED WALL
NO SCALE



8 END OF LINE / BRANCH LINE SUPPORT ()
NO SCALE



7 RING TYPE HANGER ()
NO SCALE

SEISMIC COEFFICIENT	
2016 ASCE 7 STANDARD	
TERRA LINDA HIGH SCHOOL WELLNESS CENTER & RESTROOM MODERNIZATION - 330 NOVA ABION WAY SAN RAFAEL, CA 94903	
LATITUDE	= 38.0005
LONGITUDE	= -122.55408
SPECTRAL RESPONSE ACCELERATION S _a AND S ₁	
S _a AND S ₁	= MAPPED SPECTRAL ACCELERATION VALUES
SITE CLASS D - F _a = 1.0, F ₀ = 1.0	
DATA ARE BASED ON A 0.01 DEG GRID SPACING	
PERIOD	S _a
(SEC)	(G)
0.2	1.5 (S _a , SITE CLASS D)
1.0	0.6 (S ₁ , SITE CLASS D)
C _u VALUE PER NFPA 13 TABLE 18.6.3.3	
S _a	C _u
1.5	0.84

GENERAL NOTES

1. BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, ELEVATIONS AND CHARACTERISTICS OF ALL UTILITIES AND PIPING, AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
2. EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES SHALL BE OBTAINED FROM THE ARCHITECTURAL DRAWINGS.
3. SEE ARCHITECTURAL DRAWINGS FOR ADA FIXTURE LOCATIONS AND MOUNTING HEIGHTS. (INSULATE ALL EXPOSED HOT AND COLD WATER AND DRAIN PIPING BELOW ADA LAVATORIES AND SINKS AND OFFSET P-TRAP AGAINST WALL. ALSO, ALL FLUSH VALVES SHALL BE TO WIDE SIDE OF STALL.)
4. TRAPS FOR ALL LAVATORIES AND SINKS SHALL TRAP STRAIGHT BACK TO WALL WITH ALL REQUIRED OFFSETS HAPPENING WITHIN THE WALL.
5. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS WITH UTILITY COMPANIES FOR SERVICE IN THE NAME OF THE OWNER AND SHALL PAY ALL MATERIAL AND LABOR COSTS INCIDENTAL TO AN OPERABLE UTILITY SERVICE AS REQUIRED BY THE DESIGNATED GOVERNING AUTHORITIES OF THE CITY.
6. ALL PLUMBING WORK SHALL BE INSTALLED SO AS TO AVOID INTERFERENCE WITH ELECTRICAL AND MECHANICAL EQUIPMENT AND STRUCTURAL FRAMING.
7. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CEILING ACCESS PANELS WITH THE ARCHITECTURAL REFLECTED CEILING PLANS AND THE ELEC. LIGHTING LAYOUT.
8. THE PLUMBING CONTRACTOR SHALL PROVIDE THE WATER, SEWER AND STORM DRAIN SYSTEMS TO A POINT OF CONNECTION SHOWN ON FLOOR PLANS AND SHALL MEET THE INVERT ELEVATION AS FIELD VERIFIED WHILE MAINTAINING REQUIRED PIPE GRADE.
9. ANY ALTERATIONS TO A STRUCTURAL MEMBER, SUCH AS CUTTING, BORING, BRAZING, DRILLING, WELDING, ETC. SHALL HAVE PRIOR WRITTEN APPROVAL OF ARCHITECT AND STRUCTURAL ENGINEER.
10. ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEANOUT LOCATIONS WITH EQUIPMENT, CABINETS, ETC., AND THE ARCHITECT PRIOR TO ANY INSTALLATION.
11. CONTRACTOR TO PROVIDE WATER HAMMER ARRESTORS AS MANUFACTURED BY JAY R. SMITH OR EQUAL. WATER HAMMER ARRESTORS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS ON ALL DOMESTIC WATER BRANCH LINES SERVING FIXTURES.
12. ALL PLUMBING FIXTURE VENTS TO TERMINATE A MIN. OF 12 INCHES FROM ANY VERTICAL SURFACE AND 10 FEET FROM ANY OUTSIDE AIR INTAKES.
13. ALL VALVES, UNIONS, ETC. TO BE SAME SIZE AS PIPE UNLESS OTHERWISE INDICATED ON DRAWINGS.
14. CONTRACTOR SHALL COORDINATE LAYOUT OF ALL BELOW GRADE PIPING AND COMPONENTS WITH GENERAL CONTRACTOR PRIOR TO BID TO DETERMINE EXTENT OF REQUIRED SAW CUTTING, EXCAVATION, AND SUBSEQUENT REPAIR/RESTORATION OF ALL AFFECTED HARDSCAPE AND SOFTSCAPE SURFACES. ALL SUCH ITEMS SHALL BE INCLUDED IN BID.
15. BEFORE FABRICATION OR INSTALLATION THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT AND EQUIPMENT PROVIDED UNDER ANOTHER SECTION OF SPECIFICATIONS. EXACT ROUGH-IN LOCATIONS AND REQUIREMENTS SHALL BE COORDINATED IN FIELD.
16. ALL POINTS OF CONNECTION SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR PRIOR TO BID.
17. ALL WASTE AND VENT PIPING SHALL SLOPE AT 2% UNLESS OTHERWISE INDICATED.
18. ALL VALVES, WATER HAMMER ARRESTORS OR OTHER EQUIPMENT SHOWN IN WALLS OR ABOVE NON-ACCESSIBLE CEILINGS SHALL BE INSTALLED BEHIND AN ACCESS PANEL.
19. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH AND BE CONSIDERED TO BE A PART OF SEPARATE AND COMPLETE MECHANICAL SPECIFICATIONS.
20. CONNECTION BETWEEN INCOMPATIBLE MATERIALS ABOVE GRADE AND INSIDE BUILDING SHALL BE MADE WITH TWO (2) DIELECTRIC UNIONS SEPARATED BY A SIX INCH (6") SECTION OF RED BRASS PIPE.
21. ALL EXTERIOR GAS COCKS, WATER SHUT OFF VALVES AND/OR SEWER CLEANOUTS BELOW GROUND SHALL BE INSTALLED IN YARD BOXES WITH THE COVERS CONSPICUOUSLY MARKED "GAS", "WATER", AND "SEWER" RESPECTIVELY.
22. THE CONTRACTOR SHALL VERIFY THE EXACT ELEVATIONS AND LOCATION OF EXISTING DRAINAGE SYSTEM PIPING PRIOR TO CONNECTION OF ANY PIPING.
23. ALL HORIZONTAL PIPING LINES EXTENDED AND CONNECTED TO EQUIPMENT SHALL BE RUN AT THE HIGHEST POSSIBLE ELEVATIONS AND NOT LESS THAN 6" ABOVE THE FLOOR TO PROVIDE CLEARANCE FOR CLEANING. AT WALL OR COLUMN LOCATIONS, PIPING ROUGH-IN SHALL BE STUBBED IN WALLS WHENEVER POSSIBLE.
24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND REPAIRING ALL AREAS WHICH ARE DAMAGED BY HIS OPERATIONS. IN ADDITION, THE CONTRACTOR SHALL RESTORE TO THEIR ORIGINAL CONDITION ALL EXISTING TO REMAIN STRUCTURE AND NEW CONSTRUCTION DAMAGED BY HIS OPERATIONS.
25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND REPAIRING ALL PAVED AREAS WHICH ARE EXCAVATED AND/OR DAMAGED BY HIS OPERATIONS. IN ADDITION, THE CONTRACTOR SHALL RESTORE TO THEIR ORIGINAL CONDITION ALL PLANTED AREAS DAMAGED BY HIS OPERATIONS.
26. ALL PATCHING AND REPAIRING OF CONCRETE PAVING AND/OR WALKS SHALL BE UNDER ANOTHER SECTION OF THE SPECIFICATIONS.
27. ALL EXISTING PIPING DAMAGED DURING EXCAVATION SHALL BE REPAIRED WITH MATERIALS TO MATCH EXISTING BY THE CONTRACTOR AT NO COST TO THE OWNER.
28. ALL CUTTING OF EXISTING PAVING, WALKS AND/OR FLOORS SHALL BE BY MACHINE SAW CUTTING. HOLES FOR PIPES IN CONCRETE WALLS OR FLOORS SHALL BE DONE BY CORE DRILLING EQUIPMENT.
29. ALL PIPING, EXCEPT PIPING OF NONFERROUS MATERIAL, INSTALLED WITHIN THE GROUND SHALL BE PROTECTED AGAINST CORROSION BY A PROTECTIVE C OVERING SUITABLE FOR THE PURPOSE AND SUBJECT TO THE APPROVAL OF THE BUILDING OFFICIAL. ANY PIPING SUBJECT TO UNDUE CORROSIVE ACTION SHALL BE PROTECTED IN A MATTER SUITABLE FOR THE PURPOSE AND SUBJECT TO THE APPROVAL OF THE BUILDING OFFICIAL.
30. ALL PENETRATIONS AND OPENINGS IN PARTY WALLS AND ROOF/FLOOR/CEILING ASSEMBLIES DUE TO PLUMBING WORK SHALL BE SEALED LINED, INSULATED OR OTHERWISE TREATED TO MAINTAIN THE REQUIRED FIRE AND SOUND RATINGS.

M/E/P COMPONENT 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 2022 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.

2. TEMPORARY, 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 110/220 VOLT RECEPTABLES HAVING A FLEXIBLE CABLE.

3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINT 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 REFERENCE NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADACENT 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 THE ABOVE REQUIREMENTS.

DUCTWORK AND PIPING DISTRIBUTION BRACING NOTES

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2022 CBC SECTION 1617A.1.24, 1617A.1.25 AND 1617A.1.26

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G., HC&I OPM FOR CBC 2013 OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND THE BRACE LOADS.

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

PP OPTION 1: DETAILED ON THE APPROVED DRAWINGS AND PROJECT SPECIFIC NOTES AND DETAILS

PLUMBING LEGEND		
SYMBOL	ABBREVIATION	DESCRIPTION
— — — — —	W	SANITARY WASTE/SEWER PIPING
— — — — —	V	WASTE/SANITARY VENT PIPING
— — — — —	SD	STORM DRAIN PIPNG
— — — — —	OFD	OVERFLOW STORM DRAIN PIPING
— — — — —	CW	DOMESTIC COLD WATER PIPING
— — — — —	HW	DOMESTIC HOT WATER PIPING
— — — — —	HWR	DOMESTIC HOT WATER RETURN PIPING
— — — — —	G	NATURAL GAS PIPING
— — — — —	CD	CONDENSATE DRAIN PIPING
C		PIPE GOING DOWN
∅		PIPE GOING UP
⊥		TEE
>	SOV	SHUT-OFF VALVE
<		BALANCING VALVE
XX-X		EQUIPMENT OR FIXTURE
	CONT.	CONTINUED/CONTINUATION
	FR.	FROM
	BEL.	BELOW
	DN.	DOWN
	VTR	VENT THROUGH ROOF
	AP	ACCESS DOOR
	NIC	NOT IN CONTRACT
	REF.	REFERENCE
	S.A.D.	SEE ARCHITECTURAL DRAWINGS
	S.M.D.	SEE MECHANICAL DRAWINGS
	S.C.D.	SEE CIVIL DRAWINGS
	S.S.D.	SEE STRUCTURAL DRAWINGS
	SF	SQUARE FEET

LIST OF APPLICABLE CODES

LIST OF CODES AND STANDARDS MODEL CODE EDITIONS EFFECTIVE JANUARY 1, 2023
2022 CA BUILDING CODE TITLE 24 PART 2 VOLUME #1 AND #2
2022 CA ELECTRICAL CODE TITLE 24 PART 3
2022 CA MECHANICAL CODE TITLE 24 PART 4
2022 CA PLUMBING CODE TITLE 24 PART 5
2022 CA FIRE CODE TITLE 24 PART 9
2022 CA BUILDING STANDARDS TITLE 24 PART 9

PLUMBING FIXTURE SCHEDULE						
FIXTURE	MARK	ROUGH IN CONNECTIONS				DESCRIPTION
		HW	CW	WASTE	VENT	
WATER CLOSET	WC-1	--	1"	4"	2"	AMERICAN STANDARD 2257.101 AFWALL WALL MOUNTED, VITREOUS CHINA, ELONGATED BOWL, POWERFUL DIRECT-FED SIPHON JET ACTION, 1 1/2" TOP SPUD, FLUSH VALVE: SLOAN ROYAL 111-1.28 PISTON OPERATED, CHROME PLATED, HIGH EFFICIENCY 1.28 GPF. TOILET SEAT: BEMIS 1955CT OPEN FRONT LESS COVER, ELONGATED, HEAVY DUTY, INJECTION MOLDED SOLID PLASTIC. CARRIER: SEE SECTION 22.00.00.
WATER CLOSET (ADA)	WC-2	--	1"	4"	2"	AMERICAN STANDARD 2257.101 AFWALL WALL MOUNTED, VITREOUS CHINA, ELONGATED BOWL, POWERFUL DIRECT-FED SIPHON JET ACTION, 1 1/2" TOP SPUD, FLUSH VALVE: SLOAN ROYAL 111-1.28 PISTON OPERATED, CHROME PLATED, HIGH EFFICIENCY 1.28 GPF. TOILET SEAT: BEMIS 1955CT OPEN FRONT LESS COVER, ELONGATED, HEAVY DUTY, INJECTION MOLDED SOLID PLASTIC. CARRIER: SEE SECTION 22.00.00.
LAVATORY	L-1	1/2"	1/2"	2"	2"	AMERICAN STANDARD LUCERNE 0355.012 WALL MOUNTED 20.50" X 18.25" LAVATORY, VITREOUS CHINA WITH 4" CENTERS, WITH FRONT OVERFLOW, FAUCET: AMERICAN STANDARD 6114.116 .002 SINGLE LEVER HANDLE, CAST BRASS WITH METAL HANDLE, LESS DRAIN, STRAINER AMERICAN STANDARD 2411.015 BRASS CONSTRUCTION, 1-1/4" CONNECTION WITH OVERFLOW, ANGLE STOP/SP-TRAP/PIPE WRAP: SEE SECTION 22.00.00.
LAVATORY (ADA)	L-2	1/2"	1/2"	2"	2"	AMERICAN STANDARD LUCERNE 0355.012 WALL MOUNTED 20.50" X 18.25" LAVATORY, VITREOUS CHINA WITH 4" CENTERS, WITH FRONT OVERFLOW, FAUCET: AMERICAN STANDARD 6114.116 .002 SINGLE LEVER HANDLE, CAST BRASS WITH METAL HANDLE, LESS DRAIN, STRAINER AMERICAN STANDARD 2411.015 BRASS CONSTRUCTION, 1-1/4" CONNECTION WITH OVERFLOW, ANGLE STOP/SP-TRAP/PIPE WRAP: SEE SECTION 22.00.00.
DRINKING FOUNTAIN	DF-1	1/2"	1/2"	2"	2"	ELKAY VRCTL8WS BILEVEL ELECTRIC WATER COOLER WITH BOTTLE FILLER, STAINLESS STEEL, VANDAL RESISTANT BUBBLERS, 8 GPH OF 50" DRINKING WATER, BOTTLE FILLER PROVIDES 1.1 GPM LAMINAR FLOW, 115V/60HZ, MOUNTING SYSTEM: ELKAY MLP-200.
FLOOR DRAIN	FD-1	--	--	SEE PLANS	SEE PLANS	ZURN #Z415B FLOOR DRAIN DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS AND "TYPE B" POLISHED NICKEL BRONZE, LIGHT DUTY STRAINER.
HOSE BIBB	HB-1	--	3/4"	--	--	ACORN #H104 3/4" HOSE BOX RECESSED WITH CAM LOCK, REMOVABLE LOOSE KEY WHEEL HANDLE, COMPLETE WITH VACUUM BREAKER.
TRAP PRIMER	TP-1	--	1/2"	--	--	PRECISION PLUMBING PRODUCTS P2-500 TRAP PRIMER, CORROSION RESISTANT BRASS, PISTON OPERATED.
NOTES						
1. ITEM DESCRIPTIONS INCLUDED IN THIS SCHEDULE ARE INTENDED TO DESCRIBE GENERAL FIXTURE CONFIGURATIONS, AND DO NOT INCLUDE ALL REQUIREMENTS.						
2. REFER TO SPECIFICATION SECTION 22.00.00 FOR ADDITIONAL REQUIREMENTS.						
2. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND REQUIRED CLEARANCES OF ALL FIXTURES.						
3. ALL FIXTURES, TRIM, AND VALVING SHALL COMPLY WITH CALIFORNIA'S LEAD FREE PLUMBING LAW, HEALTH AND SAFETY CODE AND CA ASSEMBLY BILL 1953.						

San Rafael City Schools



310 Nova Ablon Way, San Rafael, CA 94903

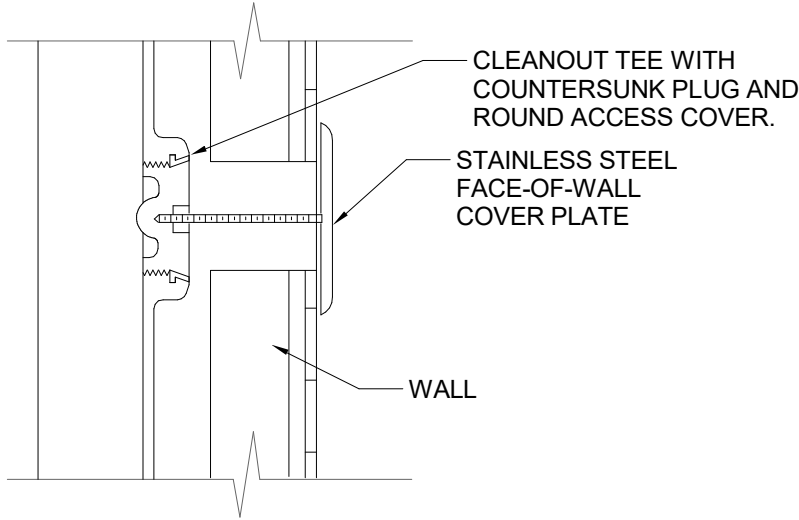
SRCS Wellness & Restroom Modernization

320 Nova Ablon Way, San Rafael, CA 94903

Date Issued For
02/16/2024 DSA Resubmittal

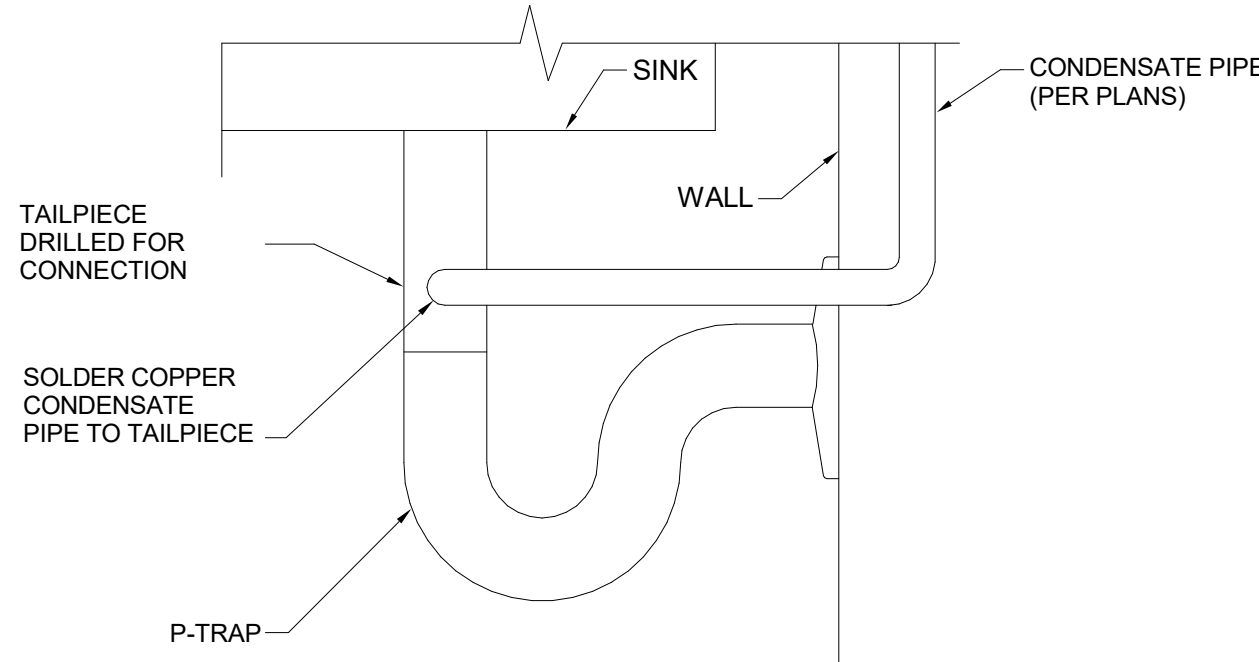


2023-SR001-002



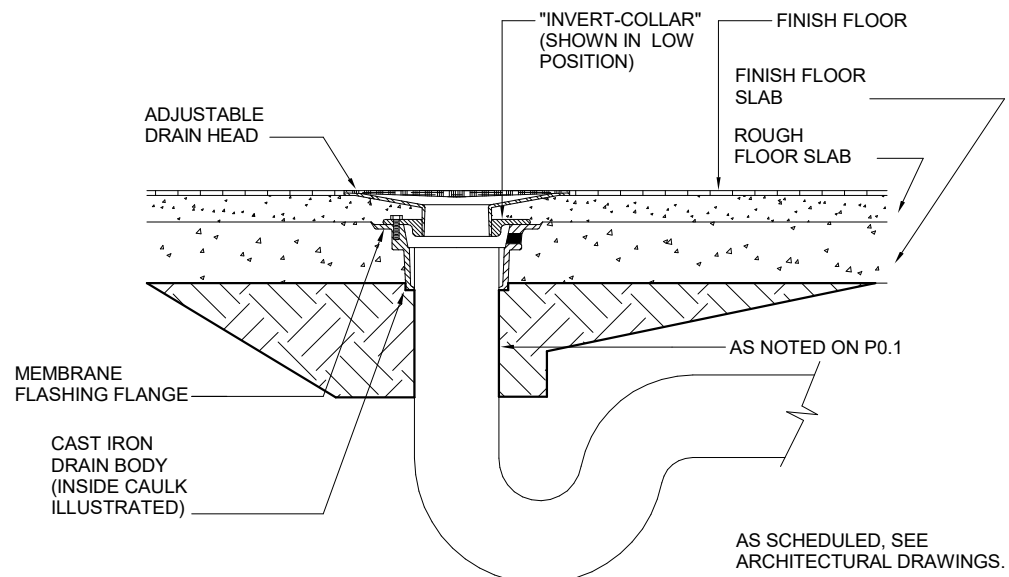
WALL CLEANOUT DETAIL

SCALE: NONE 3



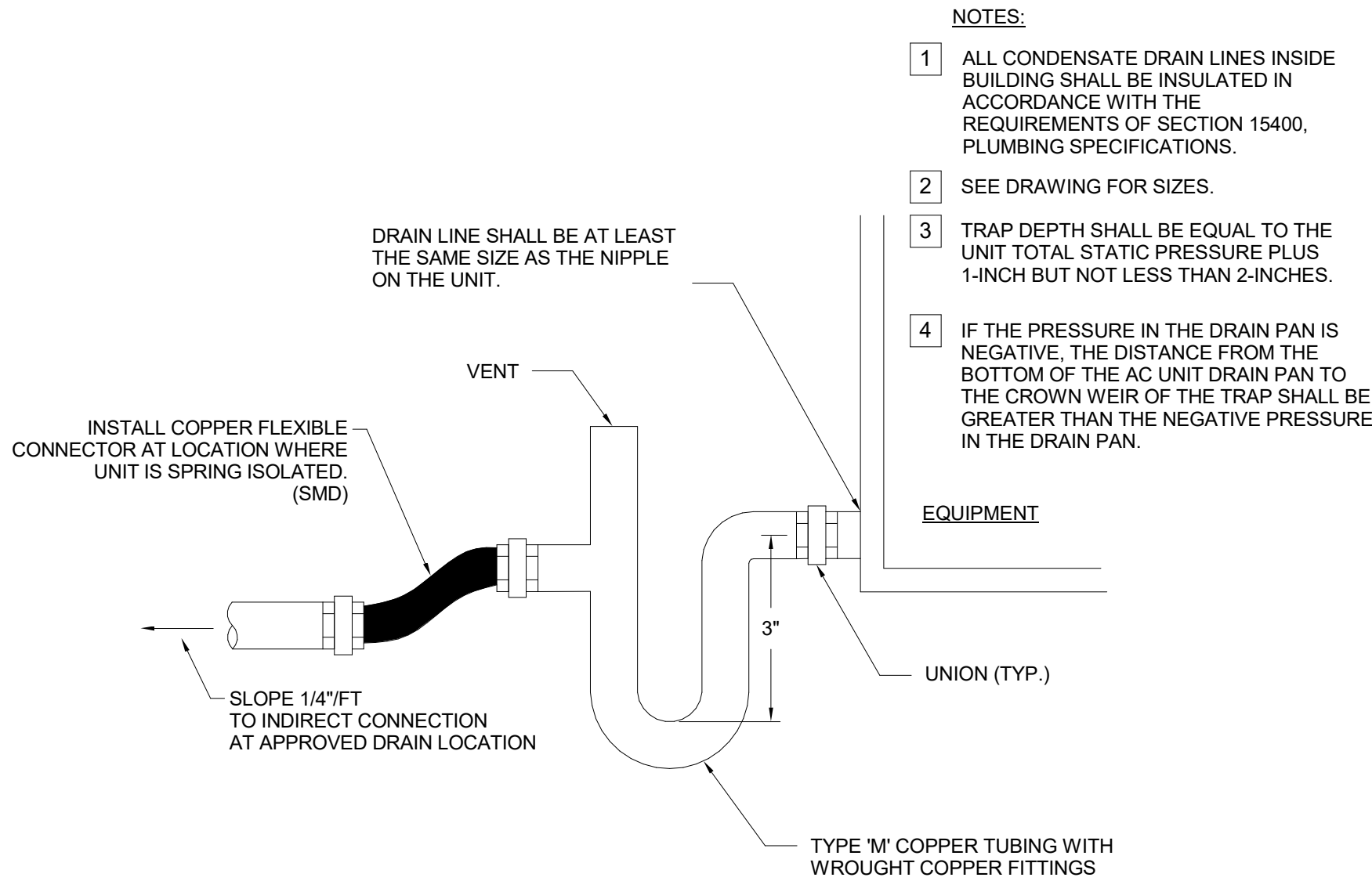
CONDENSATE DRAIN CONNECTION TO TAILPIECE OF SINK

SCALE: NONE 5



FLOOR DRAIN DETAIL

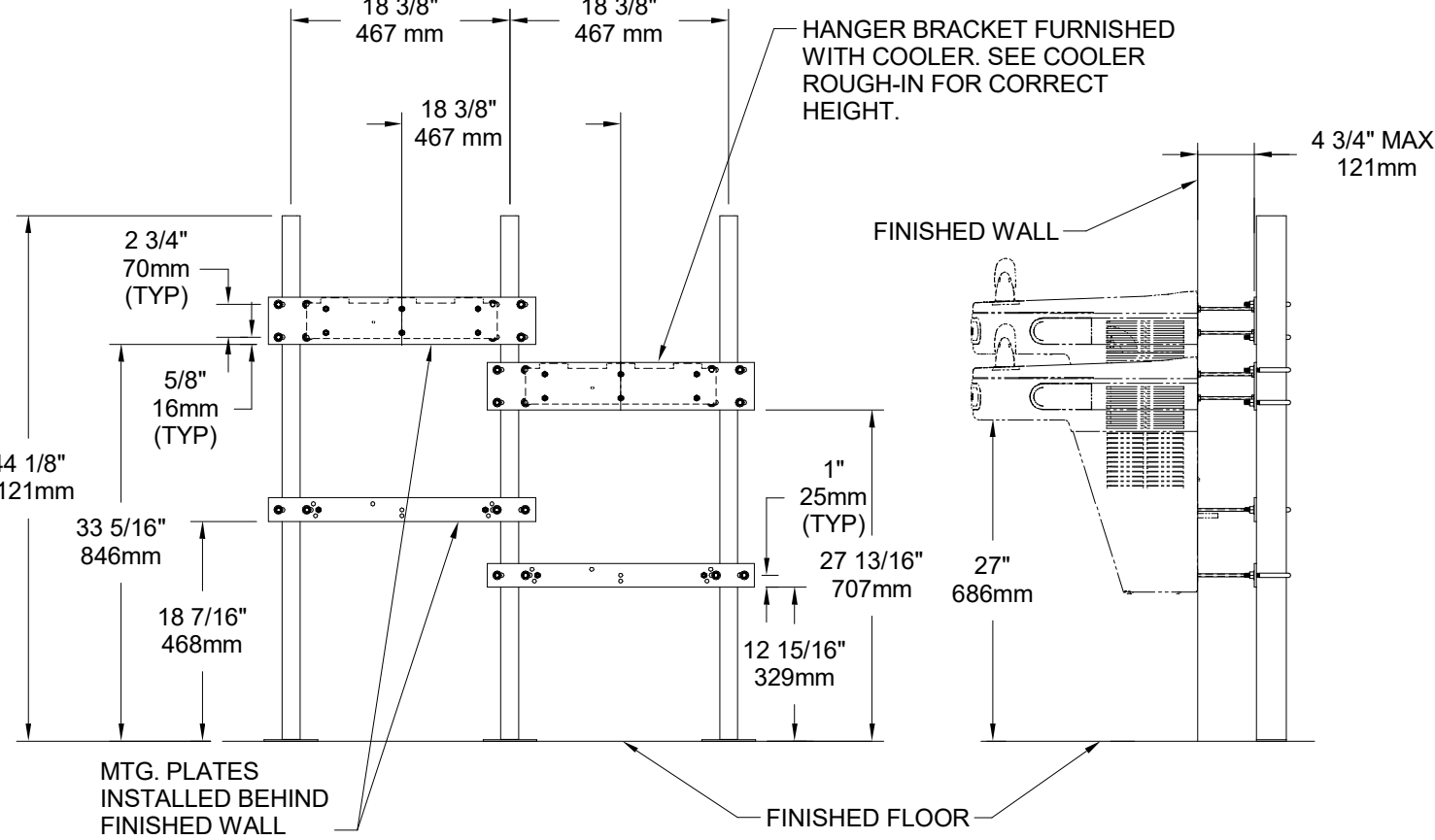
SCALE: NONE 2



*DO NOT PROVIDE ON EQUIPMENT THAT IS INTERNALLY TRAPPED. CONTRACTOR TO COORDINATE.

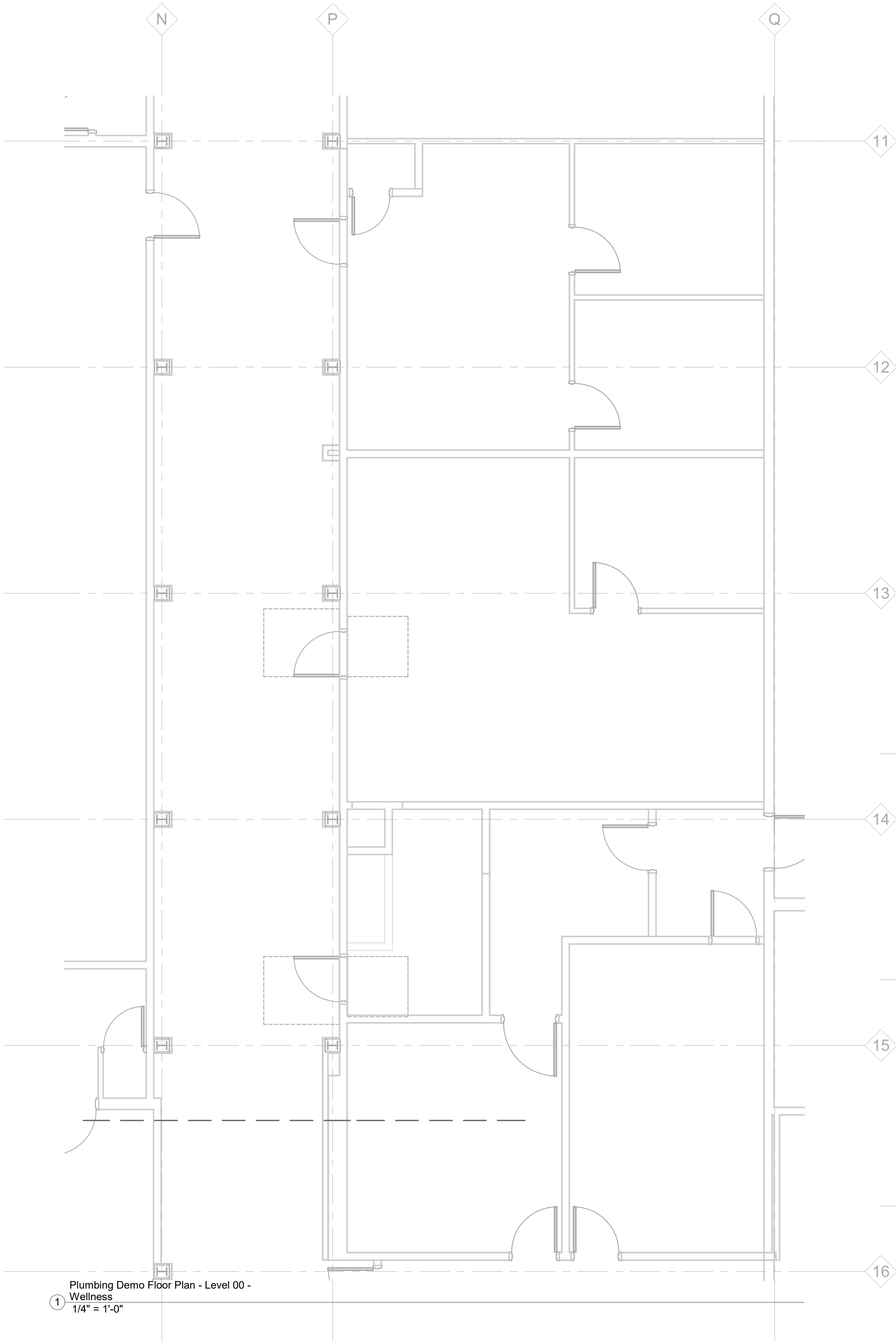
CONDENSATE DRAIN CONNECTION TO EQUIPMENT

SCALE: NONE 4

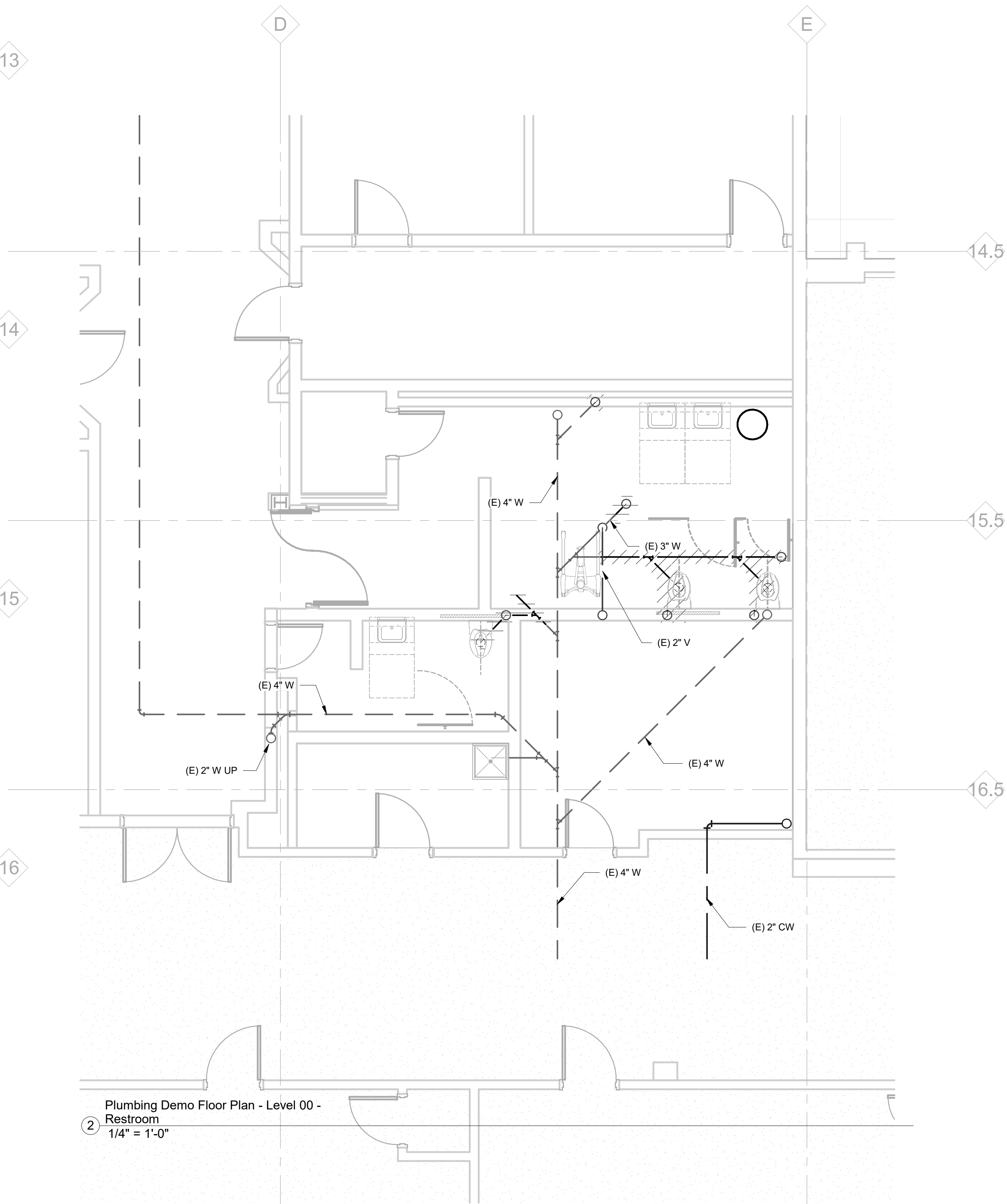


DRINKING FOUNTAIN MOUNTING DETAIL

SCALE: NONE 1

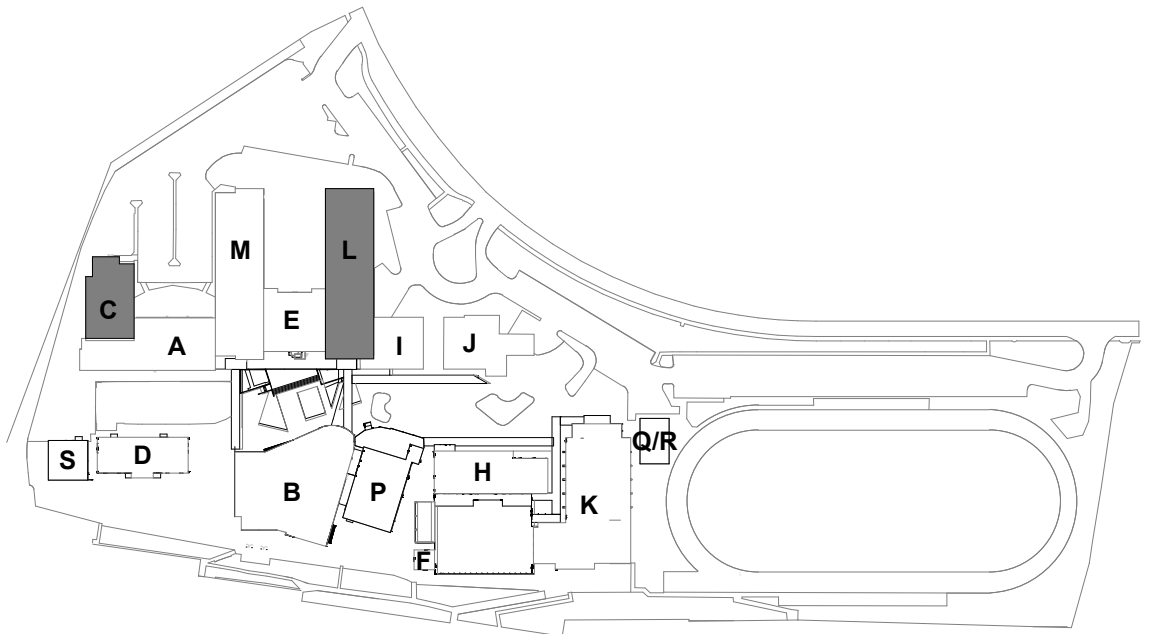


Plumbing Demo Floor Plan - Level 00 -
Wellness
1/4" = 1'-0"



Plumbing Demo Floor Plan - Level 00 -
Restroom
1/4" = 1'-0"

KEY PLAN



San Rafael City
Schools



310 Nova Ablon Way, San Rafael, CA
94903

SRCS Wellness &
Restroom
Modernization

320 Nova Ablon Way, San Rafael, CA
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Oakland, CA 94621
510-569-2000



417 Montgomery Street
Suite 400
San Francisco, California
94104 USA

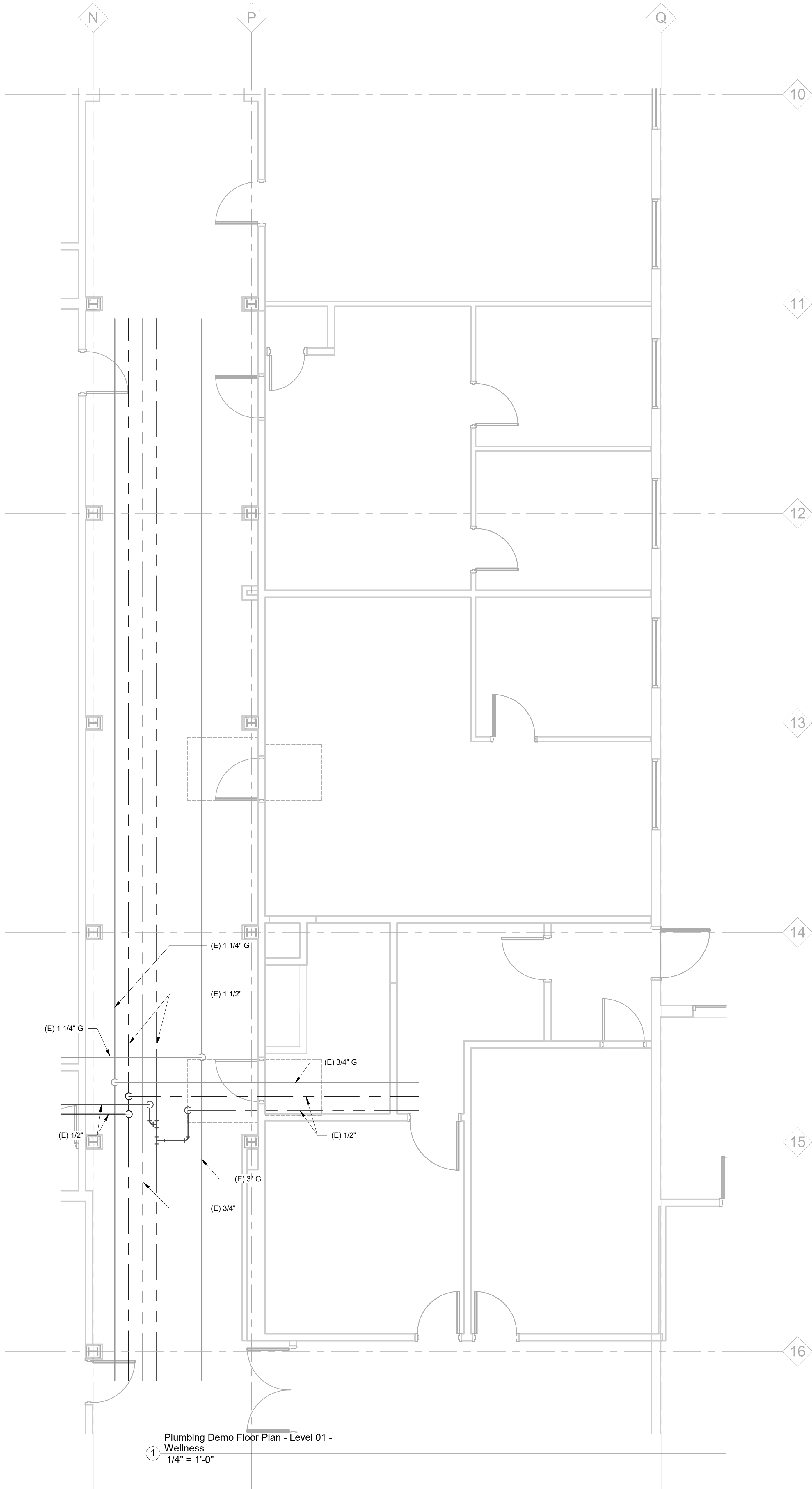
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Plumbing Demo
Underfloor Plans

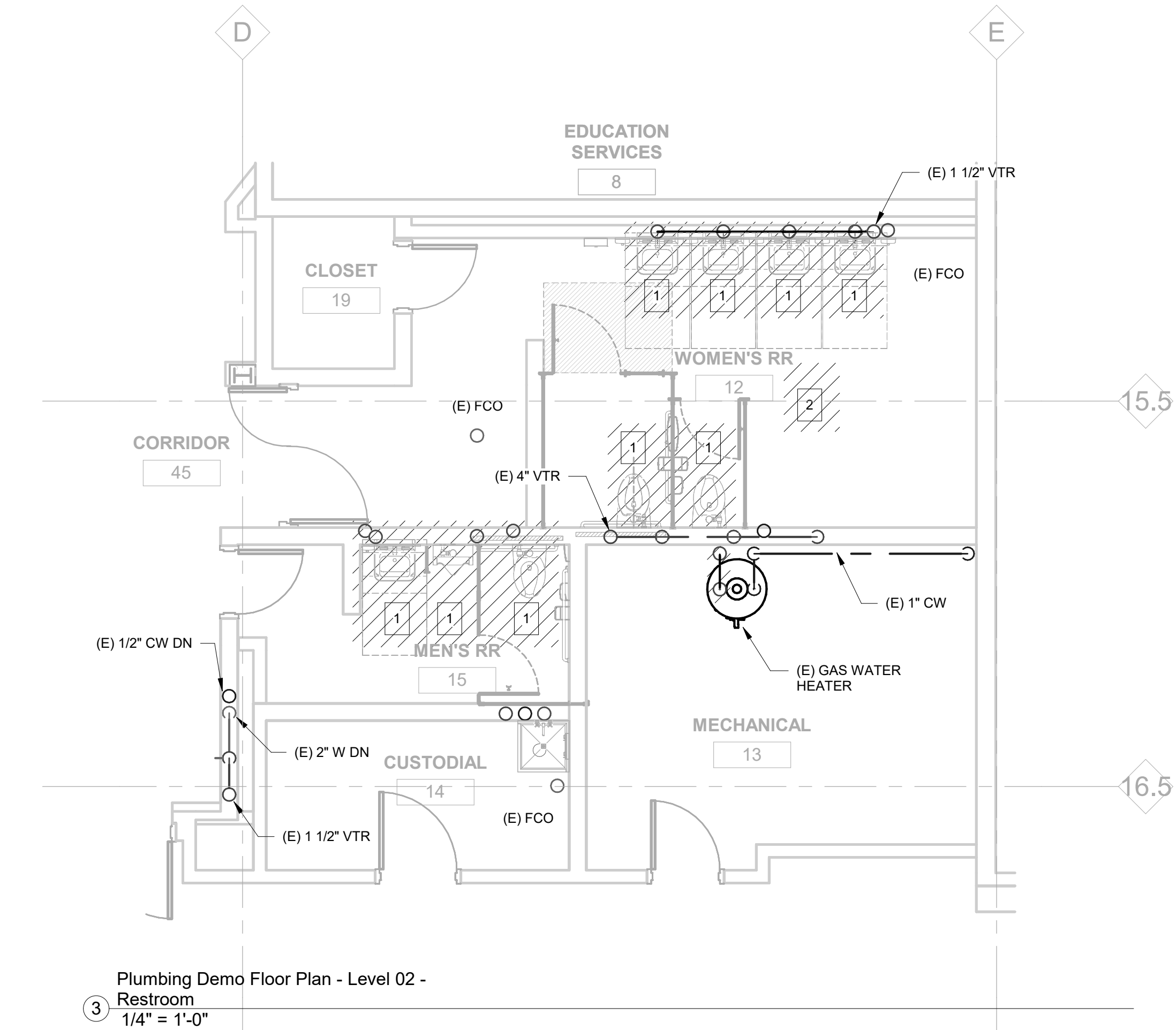
PD-100



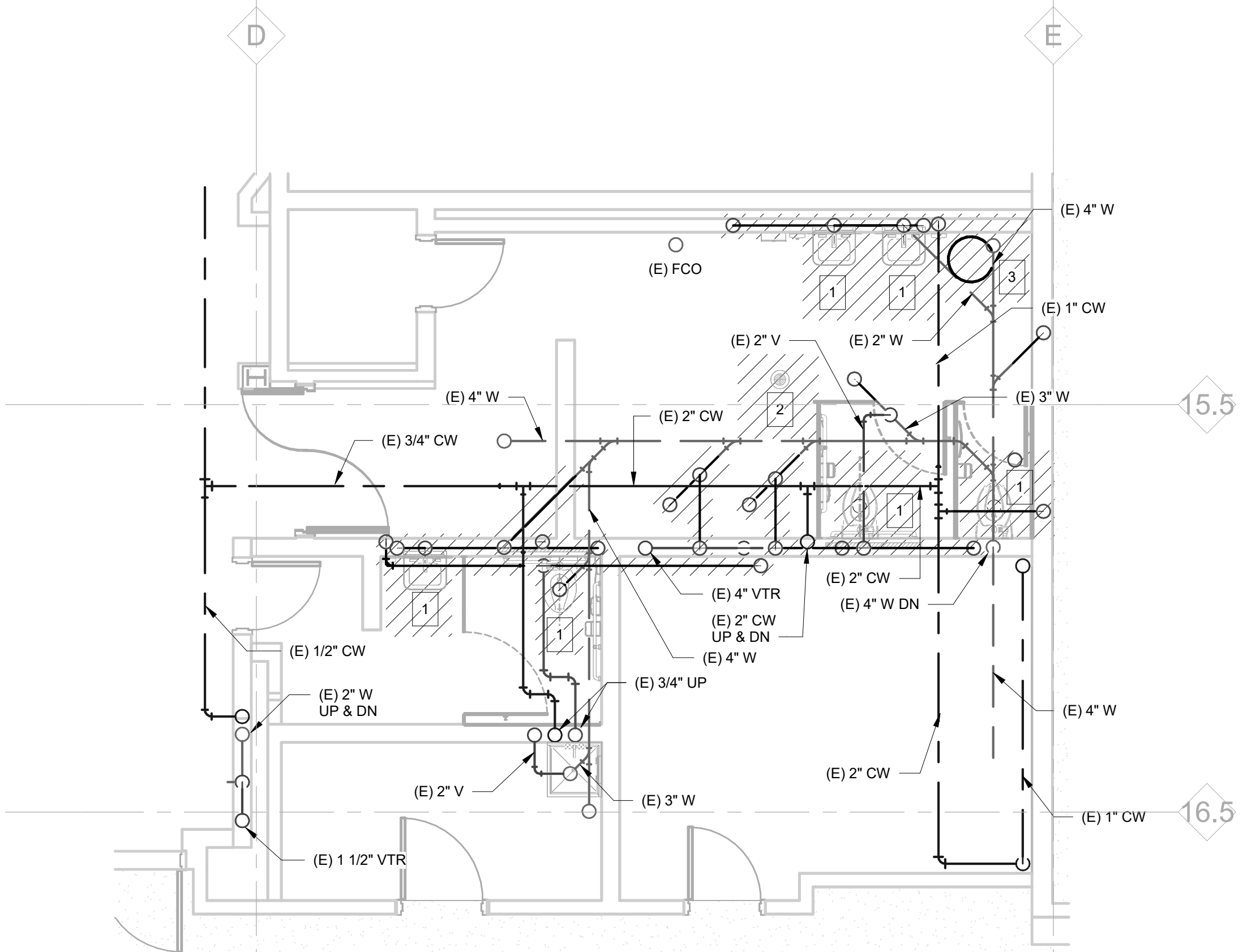
Plumbing Demo Floor Plan - Level 01 -
Wellness
1/4" = 1'-0"

SHEET NOTES:

- 1 REMOVE (E) FIXTURE AND CAP ALL CONNECTED PIPING BACK TO MAIN. TO BE FIELD VERIFIED.
- 2 REMOVE (E) FIXTURE AND PREPARE (E) PIPING FOR FUTURE FIXTURE CONNECTION. TO BE FIELD VERIFIED.
- 3 REMOVE (E) WATER HEATER AND CAP ALL CONNECTED (E) PIPING. TO BE FIELD VERIFIED.

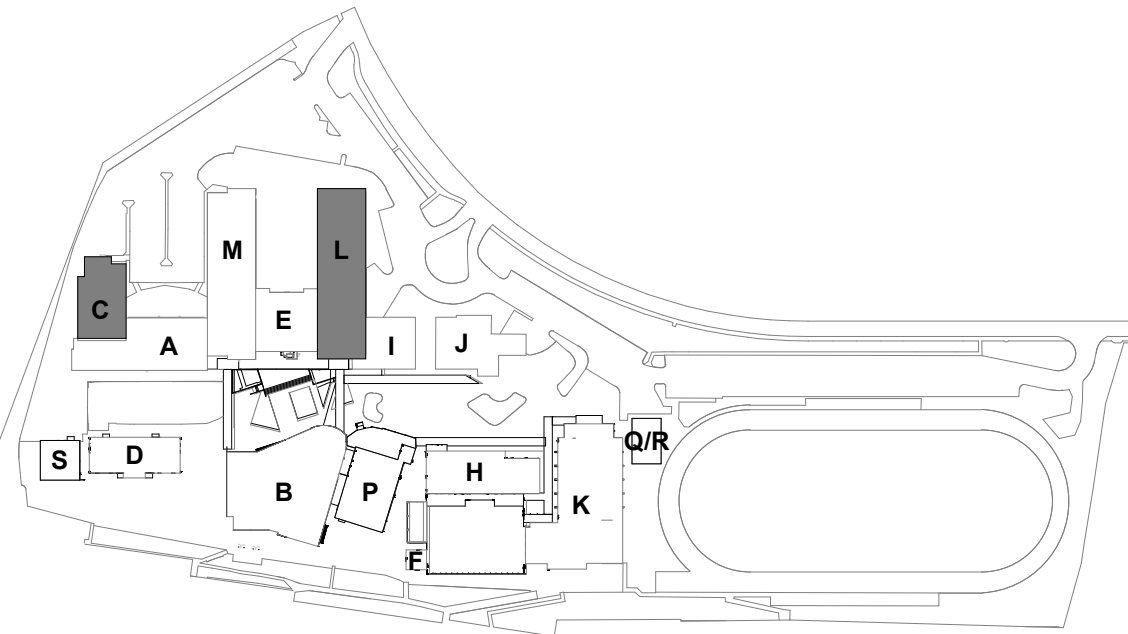


Plumbing Demo Floor Plan - Level 02 -
Restroom
1/4" = 1'-0"



Plumbing Demo Floor Plan - Level 01 -
Restroom
1/4" = 1'-0"

KEY PLAN



San Rafael City
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HM
MECHANICAL
GROUP
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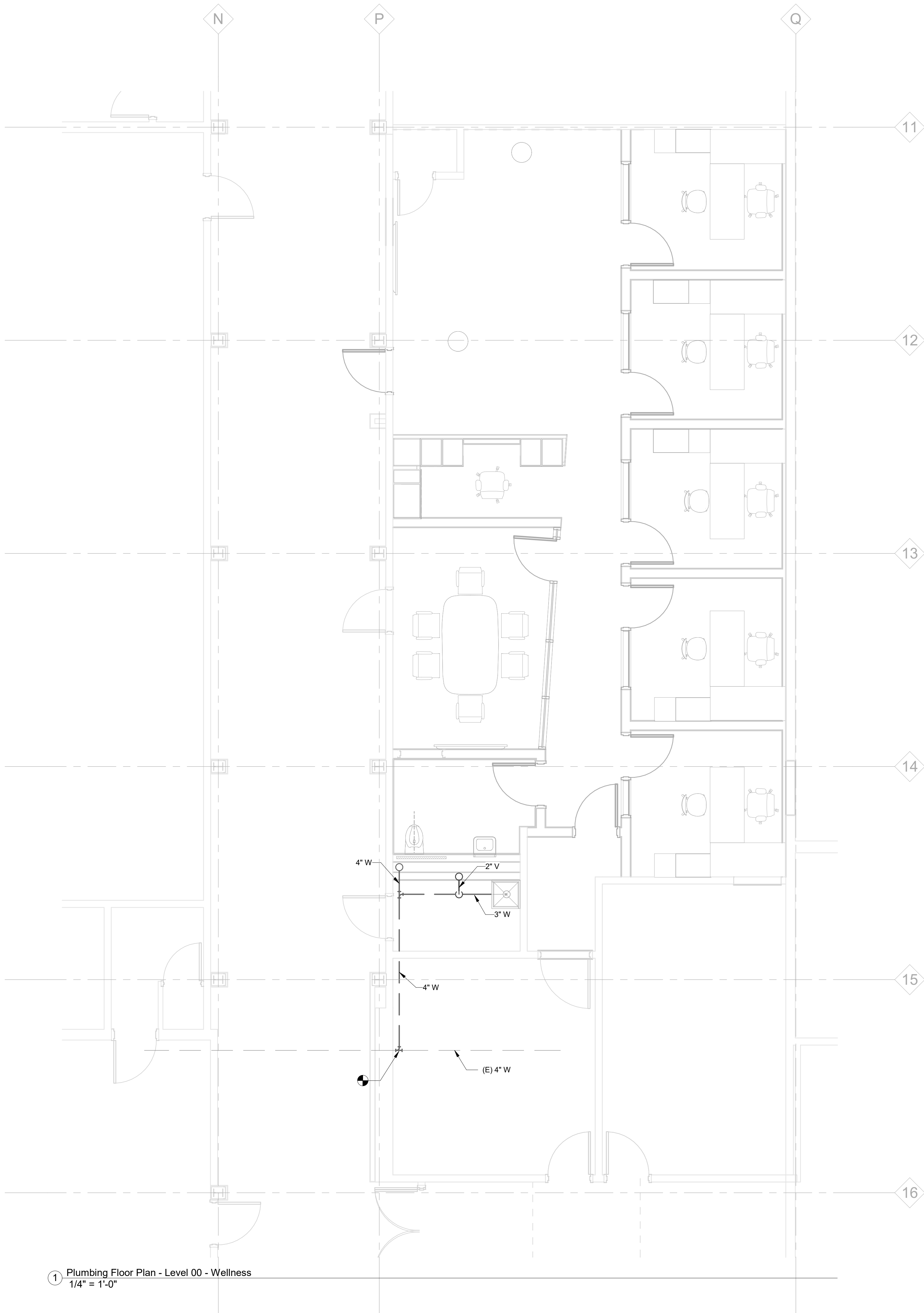
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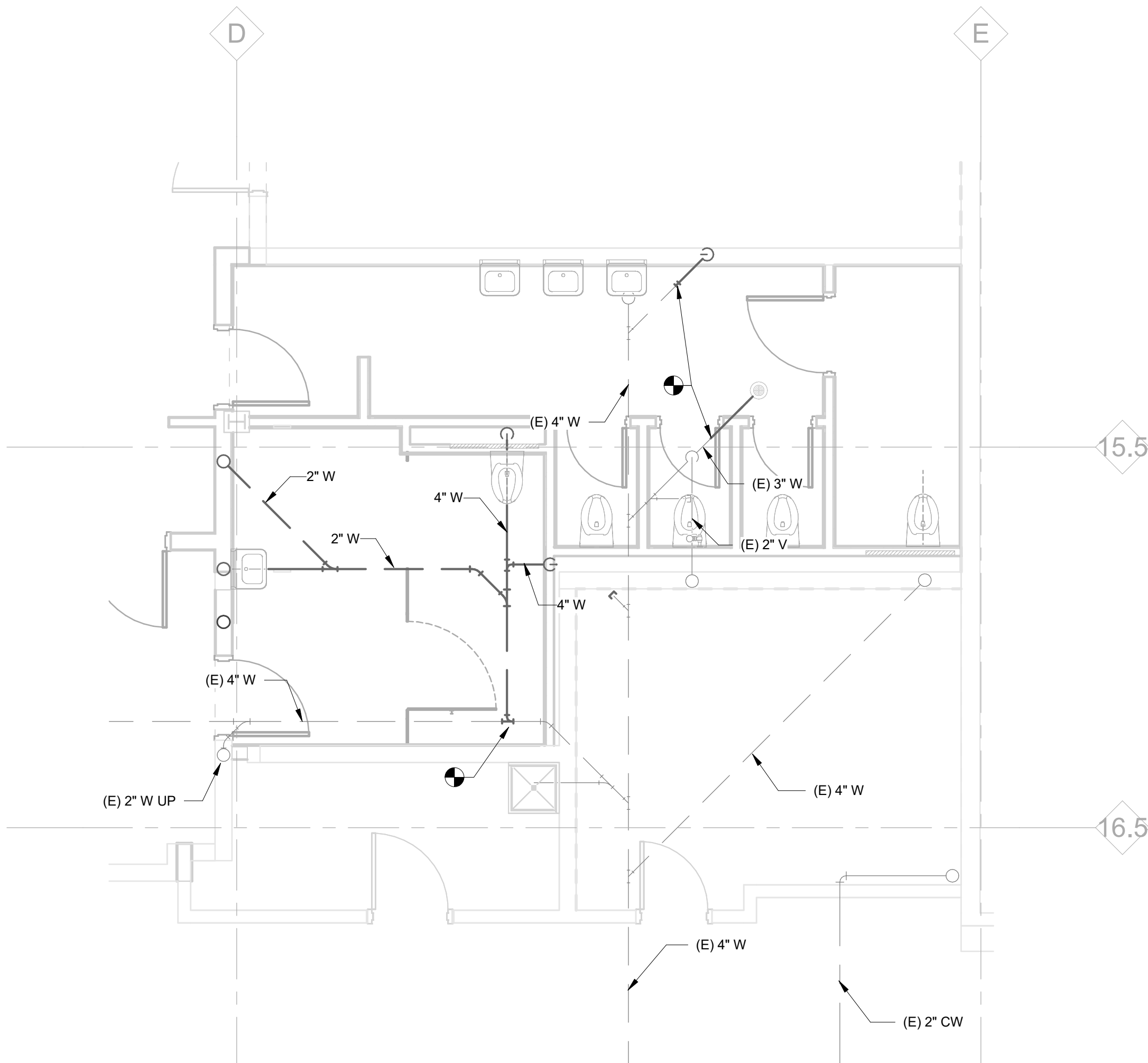
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Plumbing Demo
Floor Plans

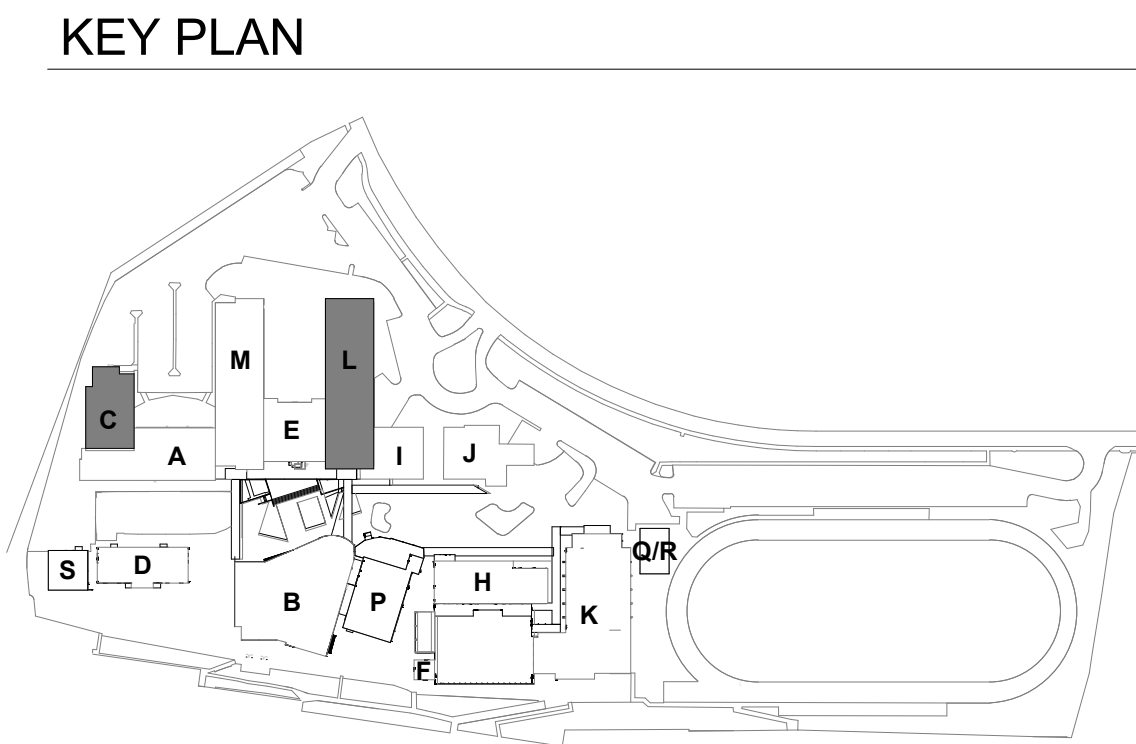
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1 Plumbing Floor Plan - Level 00 - Wellness
1/4" = 1'-0"



2 Plumbing Floor Plan - Level 00 - Restroom
1/4" = 1'-0"



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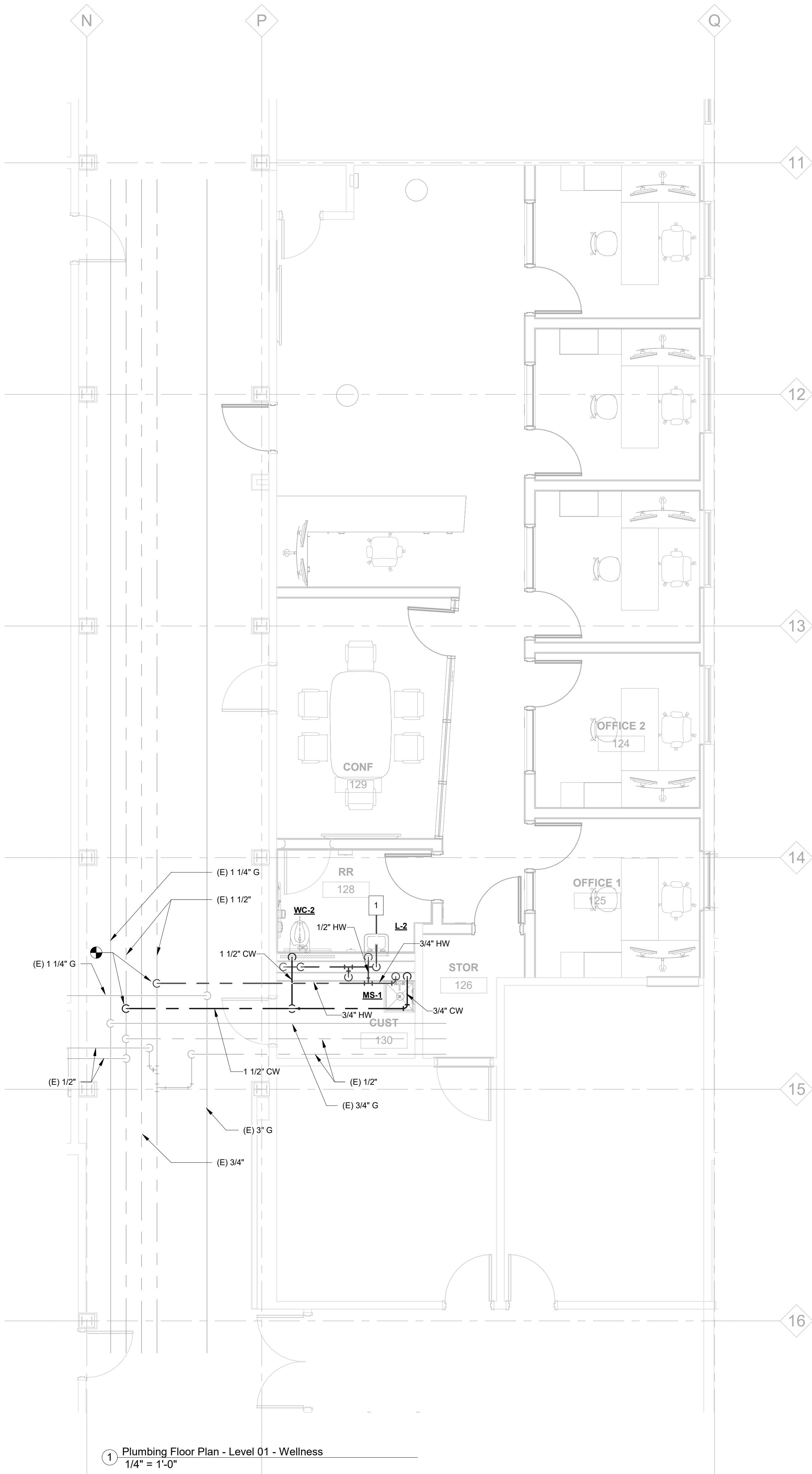
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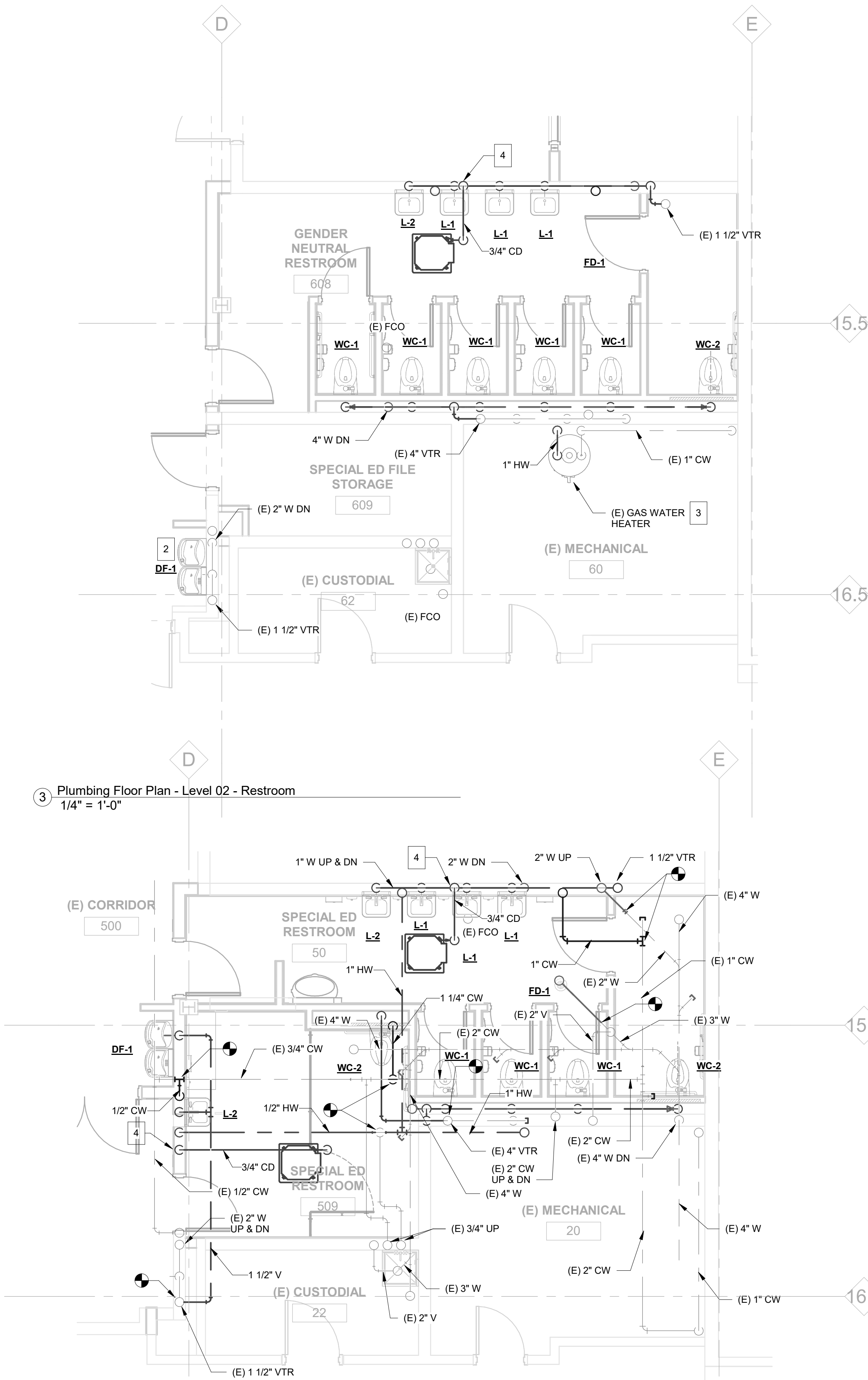
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Plumbing
Underfloor Plans

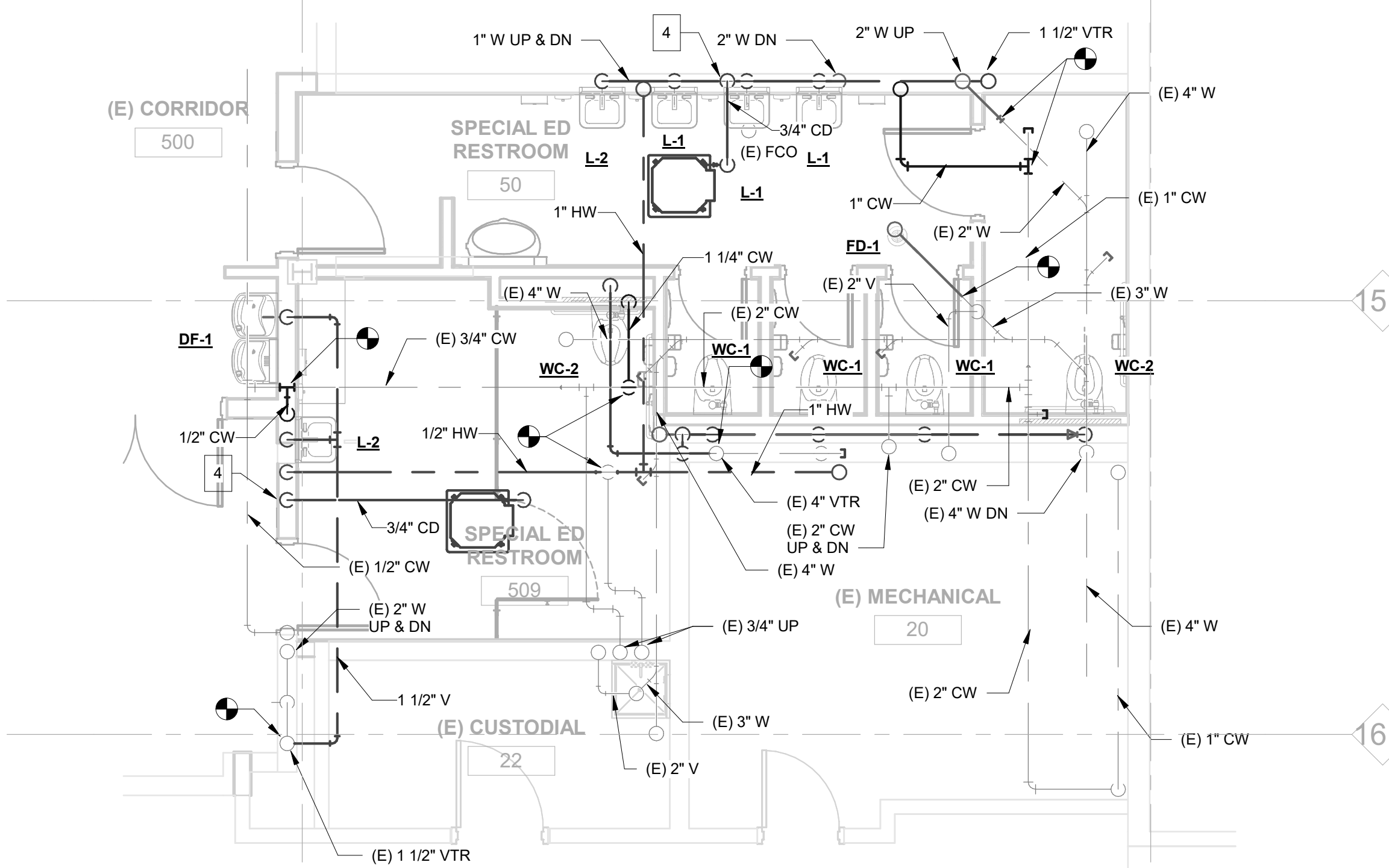
P-100



1 Plumbing Floor Plan - Level 01 - Wellness
1/4" = 1'-0"



3 Plumbing Floor Plan - Level 02 - Restroom
1/4" = 1'-0"



2 Plumbing Floor Plan - Level 01 - Restroom
1/4" = 1'-0"

SHEET NOTES:

- 1 CONNECT 2" V TO NEAREST (E) 2" V OR LARGER PIPING. TO BE FIELD VERIFIED.
- 2 CONNECT (N) FIXTURE TO (E) PIPING. TO BE FIELD VERIFIED.
- 3 PROVIDE A PLATFORM STAND (HOLDRITE QUICKSTAND™ #40-S-24-X) AND SEISMICALLY RESTAIN WATER HEATER. REVISE PIPING IF NECESSARY.
- 4 3/4" CD TO TAILPIECE. SEE DETAIL 5/P-002.

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2023-SR001-002

Plumbing Floor
Plans

P-101

MECHANICAL NOTES & SPECIFICATIONS

1.

THESE DRAWINGS & NOTES SHALL BE READ IN CONJUNCTION WITH & BE CONSIDERED TO BE PART OF A SEPARATE & COMPLETE MECHANICAL SPECIFICATION.
2.

ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF ALL APPLICABLE CODES AND REGULATIONS, INCLUDING:

2.1.

2022 CALIFORNIA BUILDING CODE (CBC) - CCR TITLE 24 PART 2

2.2.

2022 CALIFORNIA ELECTRICAL CODE (CEC) - CCR TITLE 24 PART 3

2.3.

2022 CALIFORNIA MECHANICAL CODE (CMC) - CCR TITLE 24 PART 4

2.4.

2022 CALIFORNIA PLUMBING CODE (CPC) - CCR TITLE 24 PART 5

2.5.

2022 CALIFORNIA FIRE CODE (CFC) - CCR TITLE 24 PART 9

2.6.

2022 CALIFORNIA EXISTING BUILDING CODE - CCR TITLE 24 PART 10

2.7.

2022 GREEN BUILDING (CSG) STANDARD

2.8.

2022 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS (BEES)

3.

CONTRACTOR SHALL OBTAIN & PAY FOR ALL REQUIRED FEES, PERMITS & INSPECTIONS.

4.

COORDINATE ENTIRE INSTALLATION OF THE HVAC SYSTEM(S) WITH THE WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS, AND TRANSITIONS FOR A COMPLETE AND WORKABLE INSTALLATION. COORDINATE ITEMS TO BE PROVIDED BY OTHER TRADES WHERE MENTIONED IN THE CONTRACT DOCUMENTS PRIOR TO BID - NO EXCEPTIONS. PROVIDE A COMPLETE WORKING SYSTEM PER CONTRACT DOCUMENTS.

5.

COORDINATE ALL WORK WITH THE ARCHITECTURAL DRAWINGS AND DRAWINGS OF OTHER TRADES. INSTALL ALL WORK TO CLEAR NEW AND EXISTING ARCHITECTURAL WORK, STRUCTURAL MEMBERS AND WORK OF OTHER TRADES. NO ITEM SUCH AS PIPE, DUCT, ETC. SHALL BE IN CONTACT WITH ANY EQUIPMENT. ANY ERRORS, OMISSIONS, DISCREPANCIES, DEFICIENCIES, OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR, THE ARCHITECT AND THE ENGINEER PRIOR TO PROCEEDING WITH ANY AFFECTED WORK.

6.

FIELD VERIFY EXACT SIZE & LOCATION OF (E)QUIPMENT, DUCTWORK, & REGISTERS PRIOR TO INSTALLATION OF ANY NEW EQUIPMENT, DUCTWORK OR REGISTERS. IF THE (E)DUCTWORK SIZE IS SMALLER THAN THE NEW DUCTWORK SIZE, AND/OR THE (E)DUCTWORK IS NOT IN THE NOTED LOCATION, NOTIFY OWNER IMMEDIATELY & NO NEW DUCTWORK IS TO BE INSTALLED UNTIL THE ISSUE IS RESOLVED.

7.

COORDINATE THE LOCATION OF ALL ROOF OPENINGS & THE LOCATION OF ALL ROOF MOUNTED EQUIPMENT WITH THE ARCHITECTURAL PLANS PRIOR TO ANY FABRICATION & INSTALLATION.

8.

PLATFORMS, CURBS, AND FLASHING FOR MECHANICAL EQUIPMENT IS INDICATED ON THE ARCHITECTURAL PLANS, UNLESS NOTED OTHERWISE. WHERE THERE IS A CONFLICT WITH THE MECHANICAL PLANS, NOTIFY THE ARCHITECT AND ENGINEER PRIOR TO FABRICATION AND INSTALLATION.

9.

COORDINATE THE LOCATIONS OF ALL CEILING DIFFUSERS, REGISTERS, AND GRILLES WITH THE ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL LIGHTING LAYOUT, FIRE SPRINKLER SYSTEM AND ARCHITECTURAL ROOM ELEVATIONS. THE ARCHITECT AND ENGINEER SHALL BE IMMEDIATELY NOTIFIED OF ANY CONFLICTS PRIOR TO FABRICATION AND INSTALLATION.

10.

EQUIPMENT, DUCTS, PIPING, & OTHER DEVICES & MATERIALS INSTALLED OUTSIDE OF THE BUILDING OR EXPOSED TO THE WEATHER SHALL BE COMPLETELY WEATHER PROOFED & PAINTED TO MATCH. COORDINATE WITH ARCHITECT PRIOR TO PAINTING.

11.

VERIFY ALL CLEARANCES & AVAILABLE SPACE FOR DUCTWORK PRIOR TO ORDERING AND/OR FABRICATION.

12.

DIMENSIONS SHOWN ON THESE PLANS ARE APPROXIMATE AND MUST BE CONFIRMED ON SITE AND/OR PER ARCHITECTURAL DRAWINGS. ANY SCALE NOTATIONS ARE TO BE VERIFIED PRIOR TO ANY TAKE-OFF.

13.

PRIOR TO OCCUPANCY THE ENTIRE HVAC SYSTEMS SHALL BE BALANCED BY AN INDEPENDENT AIR BALANCE CONTRACTOR FOR AIR IN ACCORDANCE AND PROCEDURES WITH (AABC) ASSOCIATED AIR BALANCE COUNCIL STANDARDS, (NEBB) NATIONAL ENVIRONMENTAL BALANCING BUREAU, OR (TABB) TESTING ADJUSTING AND BALANCING BUREAU. SYSTEMS SHALL BE BALANCED AS INDICATED ON PLANS INCLUDING OUTSIDE AIR INTAKE. FINAL BALANCING SHALL BE WITHIN 10% FOR SUPPLY, RETURN AND OUTSIDE AIR QUANTITIES INDICATED. WHERE THERE IS A CONFLICT IN PLANS, NOTIFY THE ENGINEER PRIOR TO BALANCING OF SYSTEM. IF NOT DONE SO THE ENTIRE SYSTEM MUST BE RE-BALANCED DUE TO CONFLICTS ON CONTRACT DOCUMENTS. PROVIDE A COPY OF THE AIR BALANCE REPORT TO THE ENGINEER FOR REVIEW. PROVIDE PROCEDURES AND REPORTING PER CAL GREEN CODES SECTION 5.410.4.3, SECTION 5.410.4.3.1 AND SECTION 5.410.4.4.

14.

CONTROLS CONTRACTOR & AIR BALANCE CONTRACTOR TO COORDINATE WORK & PERFORM NECESSARY TASKS TO OBTAIN AIR FLOW QUANTITIES FOR SYSTEMS SHOWN HEREIN.

15.

ADHESIVES, SEALANTS AND CAULKING SHALL BE COMPLIANT WITH LOW VOC OR OTHER TOXIC COMPOUND LIMITS SET BY (R) 4.504.2 AND/OR (NR)5.504.4.

16.

NONRESIDENTIAL (NR) VOLUNTARY MEASURE: CONTRACTOR TO PROVIDE FLUSH-OUT PER GREEN POINT RATING REQUIREMENTS SECTION A5.504.1.1 & A5.505.1.2 INCLUDING TEMPORARY BLOWER.

17.

PROVIDE OPERATING PROCEDURES FOR COOKING EQUIPMENT PER CMC SEC. 514.1.

18.

EQUIPMENT, ACCESSORIES AND RELATED PIPING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FITTINGS, TRANSITIONS, DAMPERS, VALVES, AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.

19.

MAINTENANCE LABEL SHALL BE AFFIXED TO ALL MECHANICAL EQUIPMENT AND A MAINTENANCE MANUAL SHALL BE PROVIDED FOR THE OWNERS USE. LABEL SHALL IDENTIFY THE UNIT DESIGNATION PER PLANS AND THE SPACE IT SERVES.

19.1.

EQUIPMENT: 4-1/2"x1-1/2" ENGRAVED PLASTIC-LAMINATED SIGN WITH 1/2" WHITE LETTERS ON BLACK BACKGROUND.

19.2.

VALVES: 1-1/2" DIAMETER BRASS DISC STAMPED WITH 3/8" HIGH LETTERS IDENTIFYING TYPE OF SERVICE AND VALVE NUMBER.

19.3.

PIPING: SELF-STICKING PIPE MARKERS CONSISTING OF PIPE SERVICE WORDING AND ARROW INDICATING DIRECTION OF FLOW ON ANSI COLOR BACKGROUND. MAXIMUM SPACING OF 50 FEET APART. SECURE MARKER WITH 2-1/4" WIDE SELF-STICKING CLEAR TAPE AROUND PERIPHERY OF MARKER.

20.

PROVIDE MANUAL VOLUME DAMPERS AND BACKDRAFT DAMPERS FOR OUTSIDE AIR INTAKES ON ALL AIR HANDLING EQUIPMENT AND EXHAUST FANS SERVING CONDITIONED SPACES. EXCEPTION: EQUIPMENT WITH FACTORY AIR ECONOMIZERS.

21.

OUTSIDE AIR INTAKES SHALL MEET AS A MINIMUM CODE REQUIRED CLEARANCES FROM EXHAUST, FLUE, FUEL BURNING APPLIANCES AND PLUMBING VENT OUTLETS. FOR GAS/ELECTRIC AIR CONDITIONING UNITS WHERE THE CODE REQUIRED CLEARANCES ARE NOT MET, A FACTORY FLUE GAS DEFLECTOR AND EXTENSION SHALL BE USED TO MINIMIZE THESE CLEARANCES.

22.

ALL HVAC EQUIPMENT SERVING NORMALLY OCCUPIED SPACES HAVING OVER 10' OF DUCT SHALL HAVE MINIMUM MERV13 FILTERS UNLESS OTHERWISE NOTED. DOES NOT INCLUDE EXHAUST SYSTEMS.

23.

AIR FILTERS SHALL BE STATE FIRE MARSHALL APPROVED & LISTED, PREFORMED FILTERS HAVING MARKING SHALL BE TESTED AS A COMPLETE ASSEMBLY. INSTALLED FILTERS SHALL BE CLEARLY LABELED BY THE MANUFACTURER INDICATING THE MERV RATING, & THE FILTER SPECIFICATION SHALL BE INCLUDED IN THE OPERATION & MAINTENANCE MANUAL. AIR FILTERS SHALL BE ACCESSIBLE FOR CLEANING OR REPLACEMENT.

24.

EQUIPMENT WITH MOVING PARTS, FIXED OR FLEXIBLY MOUNTED, SHALL BE PROVIDED WITH FLEXIBLE DUCT & PIPE CONNECTIONS & SHALL BE BRACED OR ANCHORED.

25.

HVAC EQUIPMENT SHALL BE CERTIFIED BY THE CALIFORNIA ENERGY COMMISSION TO COMPLY WITH THE LATEST EFFICIENCY STANDARDS.

26.

AC UNITS PROVIDED WITH ECONOMIZER CYCLE DAMPERS SHALL HAVE DAMPERS SET TO CLOSE AUTOMATICALLY ON FAN SHUTDOWN. DAMPERS SHALL NOT USE LINKAGE ARRANGEMENT BUT RATHER DIRECT DRIVE ACTUATORS.

27.

AIR HANDLING EQUIPMENT SERVING CONDITIONED SPACES SHALL PROVIDE CONTINUOUS OUTSIDE AIR TO SPACES IN OCCUPIED MODE WHEN OCCUPIED TESTING AND ADJUSTING OF SYSTEMS SHALL BE REQUIRED. OTHERWISE DEVICES AND CONTROLS SHALL BE PROVIDED FACILITATE A ZERO OUTDOOR VENTILATION RATE WHEN THERE IS NO ZONE(S) OCCUPIED PER 2022 BEES TABLE 120.1-A. TO PROVIDE THE MINIMUM RATE OF OUTDOOR AIR REQUIRED BY THE STATE ENERGY REGULATIONS.

28.

CONTRACTOR TO SUBMIT ALL EQUIPMENT, DUCTWORK, AIR DISTRIBUTION DEVICES & OTHER ACCESSORIES TO THE ENGINEER FOR APPROVAL PRIOR TO ANY ORDERING OF SUCH ITEMS.

29.

POWER WIRING DIAGRAMS ARE DIAGRAMMATIC ONLY. REFER TO ELECTRICAL DRAWING FOR PROPER POWER WIRING DIAGRAM. SUBMIT CONTROL DRAWINGS FOR APPROVAL. IT IS THE CONTRACTORS RESPONSIBILITY TO OBTAIN CONTROL DRAWINGS FROM UNIT MANUFACTURERS FOR PROPER WIRING AND OPERATION TO COMPLY WITH CONTROL SEQUENCE.

30.

LINE VOLTAGE WIRING SHALL BE INSTALLED IN CONDUIT. ALL LINE VOLTAGE CONDUIT AND WIRING, INCLUDING FINAL CONNECTIONS, SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AS INDICATED ON THE ELECTRICAL DRAWINGS OR SPECIFIED IN THE ELECTRICAL SECTION OF THE SPECIFICATIONS. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS OF GOVERNING BODIES HAVING JURISDICTION THEREOF.

31.

LOW VOLTAGE WIRING SHALL BE IN CONDUIT. PLENUM RATED WIRING INSTALLED IN CEILING SPACE, WHEN APPROVED BY SCHOOL DISTRICT, IS ACCEPTABLE.

32.

THERMOSTATS SHALL HAVE LOCKABLE COVERS (WHERE INDICATED ON PLANS) MOUNT TOP OF THERMOSTAT AT NO MORE THAN 42 INCHES ABOVE FLOOR TO MEET LOCAL ADA REQUIREMENT. IN ADDITION, THERMOSTAT(S) SHALL HAVE THE CAPABILITY TO CONNECT & RESPOND TO AN OCCUPANT CONTROLLED DEMAND RESPONSE SIGNAL OR PRICE SIGNAL FOR RESETTING OF ROOM SETPOINTS.

33.

THERMOSTATS THAT ARE PART OF AN ENERGY MANAGEMENT SYSTEM SHALL FOLLOW CONTROL SPECIFICATIONS AND DRAWING REQUIREMENTS.

34.

LINE VOLTAGE THERMOSTATS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

35.

AT THE TIME OF ROUGH INSPECTION & DURING STORAGE ON THE CONSTRUCTION SITE & UNTIL FINAL STARTUP OF THE HEATING, COOLING & VENTILATING EQUIPMENT, ALL DUCT & OTHER RELATED AIR DISTRIBUTION COMPONENTS, OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS TO REDUCE THE AMOUNT OF DEBRIS WHICH MAY COLLECT IN THE SYSTEM. PROVIDE POLLUTANT CONTROL PER CAL GREEN 2022 CODES SECTION 5.504.1.4 FOR TEMPORARY VENTILATION. COVERING OF DUCT OPENINGS & PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION, & USE OF LOW VOC SEALANTS.

36.

INSTALL DRYER VENT DUCTWORK IN CONFORMANCE TO CMC SEC 504.4.3.

37.

KITCHEN HOOD(S): DUCTWORK SERVING TYPE I AND TYPE II HOODS SHALL BE INSTALLED IN CONFORMANCE TO CMC SEC 510.0.

38.

DISHWASHER HOOD EXHAUST DUCTWORK SHALL BE ALUMINUM, SEALED WATER TIGHT, AND SLOPED DOWNWARD TOWARD THE HOOD FOR PROPER DRAINAGE.

39.

ALL SUPPLY, RETURN AND EXHAUST DUCT JOINTS SHALL BE SEALED PER CMC CHAPTER 6 REQUIREMENTS. SEAL CLASS A.

40.

DUCTWORK CONSTRUCTION SHALL MEET THE FOLLOWING SYSTEM PRESSURE REQUIREMENTS:

40.1.

ALL OTHER DUCTWORK - 2 INCH WATER COLUMN

41.

DUCTWORK CONSTRUCTION SHALL BE INSTALLED & SEALED TO MEET THE REQUIREMENTS OF CMC SECS 601.0, 602.0, 603.0, 605.0, & ANSI, SMACNA HVAC DUCT CONSTRUCTION STANDARDS METAL & FLEXIBLE DUCTWORK & ACCESSORIES WILL BE INSTALLED IN ACCORDANCE WITH NFPA 90A, NFPA 90B, ASHRAE HANDBOOK, & SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL & FLEXIBLE, UL 181 CERTIFIED & THE CMC & THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AS APPLICABLE. MOUNTING OF EQUIPMENT, DUCTS, ACCESSORIES, & APPURTENANCES SHALL BE PROVIDED, INCLUDING STRUCTURAL SUPPORTS, HANGERS, STANDS, CLAMPS & BRACKETS. RECTANGULAR DUCTWORK SHALL BE SHEET METAL CONSTRUCTED OR SPIRAL ROUND.

42.

WHERE OPENINGS HAVE BEEN MADE IN WALLS, FLOORS, OR CEILINGS FOR THE PASSAGE OF DUCTWORK OR PIPES, SUCH OPENINGS SHALL BE CLOSED AND PROTECTED BY THE INSTALLATION OF APPROVED METAL COLLARS SECURELY FASTENED TO THE ADJOINING STRUCTURE. ALL IN ACCORDANCE WITH CMC 316.11.

43.

FLEXIBLE AIR DUCT SHALL NOT EXCEED FIVE FEET IN LENGTH TO RESPECTIVE DIFFUSERS, OR OTHER AIR DEVICES. FLEX DUCT SHALL NOT BE USED IN LIEU OF RIGID ELBOWS OR FITTINGS PER CMC SEC. 603.4.1. FLEXIBLE DUCT MAY BE USED AS AN ELBOW AT A TERMINAL DEVICE USING "FLEX RIGHT" FOR SIZES 4" TO 16".

44.

LIMIT USE OF PERMANENT HVAC SYSTEMS DURING CONSTRUCTION TO CONDITIONING NECESSARY FOR MATERIAL & EQUIPMENT INSTALLATION. IF PERMANENT HVAC IS USED DURING CONSTRUCTION, INSTALL MERV-8 FILTERS ON RETURNS, & REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY, OR, IF THE BUILDING IS OCCUPIED DURING ALTERATION, AT THE CONCLUSION OF CONSTRUCTION.

45.

RECTANGULAR DUCT TURNS IN SUPPLY, RETURN, AND EXHAUST DUCTS SHALL HAVE TURNING VANES UNLESS OTHERWISE NOTED, OR SHALL HAVE A INNER RADIUS TURN OF NO LESS THAN THE WIDTH OF THE DUCT.

46.

DUCTWORK HANDLING CONDITIONED AIR SHALL BE INSULATED OR LINED TO MEET CMC 605. INTERIOR DUCTWORK SHALL BE INSULATED WITH A NON-FIBROUS MATERIAL, R-4.2. ALL SUPPLY AND RETURN DUCTWORK EXPOSED TO WEATHER OR IN UNCONDITIONED SPACE SHALL BE INTERNALLY LINED WITH 2" THICK DUCT (R-8.0) LINER UNLESS OTHERWISE INDICATED OR SPECIFIED. ALL INSULATION SHALL HAVE A FLAME SPREAD OF NOT MORE THAN 25 AND A SMOKE DENSITY NOT EXCEEDING 50. ALL DUCT INSULATION SHALL COMPLY WITH 2022 BEES SECTION 120.4(A).

47.

MANUAL VOLUME DAMPERS SHALL BE PROVIDED IN ALL DUCT BRANCHES TO INDIVIDUAL DIFFUSERS, GRILLES, AND REGISTERS, AS WELL AS OUTSIDE AIR INTAKE DUCTS. DAMPERS SHALL BE LOCATED AT THE BRANCH DUCT LOCATIONS. COORDINATE LOCATIONS OF DAMPERS WITH THE AIR BALANCING CONTRACTOR PRIOR TO BID, SO AS TO ENSURE ACCESSIBILITY AFTER INSTALLATION. IN LOCATIONS WHERE THESE DAMPERS ARE INACCESSIBLE, CABLE OPERATED ADJUSTMENT CONTROLS SHALL BE PROVIDED AT NO ADDITIONAL COST. OPPOSED BLADE DAMPERS SHALL NOT BE PERMITTED UNLESS OTHERWISE NOTED.

48.

AIR MOVING EQUIPMENT HAVING MORE THAN 2000 CFM SHALL HAVE SMOKE DETECTOR IN DUCT, BUT ARE NOT REQUIRED PER 2022 CMC 609.0 EXCEPTION WHERE ALL AREAS SERVED BY SAID EQUIPMENT HAS DIRECT EGRESS WITHIN 100 FEET.

49.

FOR INACCESSIBLE AREAS PROVIDE ACCESS PANELS FOR ALL DAMPERS, EQUIPMENT, SMOKE DETECTORS, & CONTROL DEVICES. THESE PANELS SHALL MATCH THE RATING OF THE WALL AND/OR CEILING THAT THEY ARE LOCATED IN. MINIMUM ACCESS PANEL SIZES SHALL BE 12"x12" FOR HAND ACCESS & 30"x30" MINIMUM FOR BODY ACCESS. WHERE A LARGER ACCESS PANEL IS REQUIRED DUE TO INSTALLATION CONSTRAINTS OR EQUIPMENT SIZE, DO SO AT NO ADDITIONAL COST & SHALL OBTAIN PRIOR APPROVAL FROM THE ARCHITECT, ENGINEER & DSA.

50.

REMOVE ALL LEFT OVER DUCTWORK SCRAPS, ETC. (IF ANY) AND LEAVE PREMISES CLEAN AND FREE OF ANY TRASH OR DEBRIS DUE TO THEIR WORK.

51.

INSULATED PIPES SHALL CONFORM TO 2022 BEES STANDARDS SECTION 120.3, TABLE 120.3-A. INSULATED PIPE EXPOSED TO WEATHER SHALL BE COVERED WITH E-FLEX GUARD MANUFACTURED BY AIREX MFGR INC.

52.

MECHANICAL EQUIPMENT MOUNTED ON ROOF SHALL BE LOCATED ON A WELL DRAINED SURFACE OF THE ROOF. AT LEAST 10 FEET OF CLEARANCE SHALL BE AVAILABLE BETWEEN THE BOTTOM PART OF THE EQUIPMENT AND THE EDGE OF A ROOF OR SIMILAR HAZARD, OR RIGIDLY FIXED RAILS, GUARDS, PARAPETS, OR OTHER BUILDING STRUCTURES AT LEAST 42 INCHES IN HEIGHT SHALL BE PROVIDED ON THE EXPOSED SIDE.

53.

MECHANICAL LIGHTING CONTROL, ENVELOPE AND PROCESS EQUIPMENT REQUIRING ACCEPTANCE TESTING SHALL BE PROVIDED BY CERTIFIED TECHNICIANS. SEE MECHANICAL TITLE 24 SHEETS FOR ACCEPTANCE TESTING REQUIREMENT.

54.

CORING OR CUTTING OF NEW HOLES IN THE EXISTING CONCRETE SLAB IS PROHIBITED. ONLY EXISTING HOLES SHALL BE USED OR PROVIDE STRUCTURAL DETAILS DEFINING THE LIMITATIONS ON CORING AND CUTTING WITH COMPLETE DIMENSIONS. S.S.D

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 7-16 Section 13.3 as defined in ASCE 7-16 Sections 13.6.5, 13.6.6, 13.6.7, 13.6.8, and 2022 CBC Sections 1617A.1.24, 1617A.1.25 and 1617A.1.26

The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. When bracing and attachments are based on a pre-approved installation guide (e.g., HCAI OPM for 2013 CBC or later), copies of the bracing system installation guide or manual shall be available on the jobsite prior to the start of and during the hanging and bracing of the distribution systems. The Structural Engineer of Record shall verify the adequacy of the structure to support the hanger and brace loads.

Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP), Electrical Distribution Systems (E):

MP[x] MD[x] PP[] E[] Option 1: Detailed on the approved drawings and project specific notes and details.

M/E/P 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 2022 CBC, Sections 1617A.1.18 through 1617A.1.26 and ASCE 7-16 Chapters 13, 26 and 30:

1.

All permanent equipment and components.
2.

Temporary or movable equipment that is permanently attached (e.g. hard wired) to the building utility services such as electricity, gas or water. "Permanently attached" shall include all electrical connections except plugs for 110/220 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 are 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 transfers 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 the above requirements.

MECHANICAL LEGEND		
SYMBOL	ABBREVIATION	DESCRIPTION
	AFF	ABOVE FINISHED FLOOR
	AL	ACOUSTICALLY LINED
	AP	ACCESS PANEL
	AIR: OA	OUTSIDE AIR
	AIR: RA	RETURN AIR
	AIR: SA	SUPPLY AIR
	AIR: TA	TRANSFER AIR
	BOD	BOTTOM OF DUCT
	CFM	CUBIC FEET PER MINUTE
	DAMPER: BDD	BACKDRAFT DAMPER
	DAMPER: MVD	MANUAL VOLUME DAMPER
	DAMPER: FD	FIRE DAMPER
	DAMPER: FSD	FIRE/SMOKE DAMPER
	DIA	DIAMETER
	DN	DOWN
	DS	DISCONNECT SWITCH
	DSD	DUCT SMOKE DETECTOR
	EER	ENERGY EFFICIENCY RATIO
	(E)	EXISTING
	F	FAN
	FLA	FULL LOAD AMPS
	GEF	GREASE EXHAUST FAN
	HP	HORSEPOWER
	MCA	MINIMUM CIRCUIT AMPACITY
	MOP	MAXIMUM OVERCURRENT PROTECTION
	MS	MOTOR STARTER
	RL	REFRIGERANT LIQUID
	RS	REFRIGERANT SUCTION
	SEER	SEASONAL EER
	SAD	SEE ARCHITECTURAL DRAWING
	SED	SEE ELECTRICAL DRAWING
	SPD	SEE PLUMBING DRAWING
	SSD	SEE STRUCTURAL DRAWING
		SENSOR: TEMPERATURE
		SENSOR: CARBON DIOXIDE
		THERMOSTAT
	TP	RATED THRU PENETRATION
	TYP	TYPICAL
	UON	UNLESS OTHERWISE NOTED
	WT	WEIGHT
	24x12	RECTANGULAR DUCT - INCHES
	12"	ROUND DUCT - INCHES
-----		WIRING AND CONDUIT BY ELECTRICAL CONTRACTOR.
-----		CONDUIT, WIRING AND FINAL CONNECTION BY MECHANICAL OR CONTROL CONTRACTOR.
	(E)	FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
	(M)	FURNISHED AND INSTALLED BY MECHANICAL OR CONTROL CONTRACTOR

DUCT INSULATION REQUIREMENTS (PER 2022 BUILDING ENERGY EFFICIENCY STANDARDS)		
DUCT LOCATION	INSULATION R-VALUE	INSTALLED INSULATION THICKNESS
- IN VENTED ATTIC SPACES - IN UNCONDITIONED SPACES - OUTDOORS - SPACE BETWEEN ROOF & INSULATED CEILING	R-8	2"
- IN RETURN AIR PLENUM - ALL OTHER SPACES	R-4.2	1"
- ENCLOSED INDIRECTLY CONDITIONED SPACE	NONE REQUIRED	N/A
NOTES: <div>1. INSULATION THICKNESS VALUES BASED ON JOHNS MANVILLE INSULATION.</div> <div>2. THE INSTALLED INSULATION THICKNESS OF DUCT LINING FOR PURPOSES OF COMPLIANCE IS EQUIVALENT TO ITS NOMINAL THICKNESS.</div> <div>3. THE INSTALLED INSULATION THICKNESS OF DUCT WRAP FOR PURPOSE OF COMPLIANCE IS 75% OF ITS NOMINAL THICKNESS.</div>		

SUBSTITUTION OF MATERIALS	
1	EQUALS: THE DESIGN HAS BEEN BASED ON THE MANUFACTURER'S NAME AND PRODUCT LISTED ON THE DRAWINGS. OTHER MANUFACTURER'S NAMES LISTED IN THE SPECIFICATIONS MAY BE SELECTED AND CONSIDERED 'AS EQUAL' FOR QUALITY ONLY. HOWEVER, THEY MUST MATCH THE PERFORMANCE, CONSTRUCTION, FIT AND FEATURES OF THOSE SELECTED FOR DESIGN. THE ACCEPTANCE OF THESE DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR PROVIDING THE REQUIRED MATERIALS AND PROVIDING A WORKABLE SYSTEM. THOSE ITEMS NOTED AS 'NO SUBSTITUTIONS' SHALL BE FURNISHED WHEN SPECIFIED.
2	TO SUBSTITUTE EQUIPMENT OR MATERIAL OTHER THAN THOSE CONSIDERED FOR THE BASIS OF DESIGN, SUBMIT INFORMATION AS CALLED FOR IN THE 'REQUEST FOR SUBSTITUTION' SPECIFICATIONS, AND SUBMIT REQUIRED INFORMATION FOR BOTH THE SPECIFIED OR SCHEDULED ITEM AND THE SUBSTITUTE ITEM. THESE SUBMITTALS MUST SHOW THAT BOTH THE SPECIFIED AND THE SUBSTITUTE MATERIAL MATCH IN QUALITY, PERFORMANCE, CONSTRUCTION, FIT AND FEATURES OF THOSE SELECTED FOR DESIGN. ANY EQUIPMENT OR MATERIAL SUBMITTED FOR SUBSTITUTION WITHOUT THE COMPARISON INFORMATION WILL NOT BE REVIEWED OR ACCEPTABLE.
3	LIABILITY OF SUBSTITUTIONS: PERFORMANCE OF SUBSTITUTIONS MUST BE EQUAL TO THE ITEM SPECIFIED. SHOULD THE SUBSTITUTED ITEM FAIL TO PERFORM ACCORDING TO SPECIFICATIONS, REPLACE WITH THE ORIGINALLY SPECIFIED ITEM WITHOUT EXTRA COMPENSATION ON REQUEST OF THE ARCHITECT ANY TIME WITHIN THE GUARANTEE PERIOD.

San Rafael City Schools



SAN RAFAEL CITY SCHOOLS

310 Nova Ablon Way, San Rafael, CA 94903

SRCS Wellness & Restroom Modernization

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Date Issued For

02/16/2024 DSA Resubmittal



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Mechanical General Notes, Legend

M-001

2/12/2024 3:07:05 PM

DUCTLESS SPLIT FAN COIL & HEAT PUMP SCHEDULE

INDOOR UNIT								OUTDOOR UNIT										
TAG	AREA SERVES	"MITSUBISHI" MODEL	MCA	ELECT (V/φ/HZ)	AIRFLOW (CFM)	OPER WEIGHT (LBS)	ANCHORAGE DETAIL (DETAIL #/SHEET #)	TAG	AREA SERVES	"MITSUBISHI" MODEL	MCA / MOP	ELECT (V/φ/HZ)	OPER WEIGHT (LBS)	RATED COOLING CAPACITY KBTU/H	RATED HEATING CAPACITY KBTU/H	SEER2 / EER2	HSPF2	ANCHORAGE DETAIL (DETAIL #/SHEET #)
FC-1.1	EXEC. ASS.	SLZ-KF12NA	0.3	208/1/60	230	31	6 / M0.02	HP-1	BUSINESS SERVICE	MXZ-5B42NA4	32.5 / 40	208/1/60	189	40	45	19.7 / 9.2	9.2	8 / M0.02
FC-1.2	ASS. SUPER.	SLZ-KF12NA	0.3	208/1/60	230	31												
FC-1.3	CONFERENCE	SLZ-KF12NA	0.3	208/1/60	230	31												
FC-2.1	BOND OFFICE	SLZ-KF15NA	0.3	208/1/60	245	31		HP-2	CBO OFFICES	MXZ-5B42NA4	32.5 / 40	208/1/60	189	40	45	19.7 / 9.2	9.2	
FC-2.2	STAFF LOUNGE	SLZ-KF09NA	0.3	208/1/60	230	31												
FC-2.3	DIRECTOR OFFICE	SLZ-KF09NA	0.3	208/1/60	230	31												
FC-3.1	SPED. RR 50	SLZ-KF12NA	0.3	208/1/60	230	31		HP-3	RESTROOMS	MXZ-5B42NAHZ	42 / 50	208/1/60	278	42	48	20 / 13.4	11	
FC-3.2	SPED. RR 509	SLZ-KF09NA	0.3	208/1/60	230	31												
FC-3.3	GEN. RR 608	SLZ-KF12NA	0.3	208/1/60	230	31												
ACCESSORIES: CP - CONDENSATE PUMP IS - 3-POLE ISOLATION SWITCH MOUNTED LC - L-CONNECTOR PIPE LS - RECTORSEAL SLIM DUCT LINESET COVER AND WALL CAP FOR REFRIGERANT PIPING EXPOSED TO WEATHER AND IN SPACES. 24V - BACNET INTERFACE FOR CONNECTION TO ALERTON NETWORK (SEE DETAILS ON SHEET M-004) NOTE: INDOOR UNIT POWERED BY OUTDOOR UNIT																		

FANS

TAG	BASIS OF DESIGN			AIR FLOW (SCFM)	ESP (" WC)	ELECTRICAL		SOUND POWER (SONES)	WEIGHT (LBS)	ANCHORAGE DETAIL (DETAIL/SHEET)	REMARKS
	MANUF.	MODEL	TYPE			HP/ (WATT)	VOLTS/PH/HZ				
SF-1	GREENHECK	KSQ-12-M2-VG	ROOF	1500	1.0	1	208/3/60	65	47	4 / M0.02	FAN CONTROL BY ALERTON CONTROL
EF-1, 2	GREENHECK	SP-B150	CEILING	100	.375	(128)	115/1/60	1.5	11	--	FAN CONTROL BY OCCUPANCY SENSOR
EF-3, 4	GREENHECK	G-090-VG	ROOF	350	.375	1 10	115/1/60	5.5	47	4 / M-003	FAN CONTROL BY ALERTON CONTROL
ACCESSORIES: * BACKDRAFT DAMPER FOR ALL FANS * SPEED CONTROLLER MOUNT ON FAN HOUSING FOR AIR BALANCING FOR EF-1, 2, 3, 4 * CEILING MOUNTING KIT FOR EF-1, 2 * ROOF CURB AND BIRDSCREEN FOR SF-1, F-3, 4 * VARI-GREEN WITH CONSTANT PRESSURE, REMOTE TRANSDUCER, DUCT PROBE, HOA SWITCH, MERV 13 FILTER, NEMA 4 ENCLOSURE FOR SF-1 SEE SHEET M-004 FOR FAN CONTROLS											

AIR DISTRIBUTION

STYLE	MFR	MODEL NO	APPLICATION	DESCRIPTION	INSTALLATION NOTES
A	TITUS	TDC	T-BAR CEILING SUPPLY DIFFUSER	LOUVERED FACE, ROUND NECK, 4 WAY (U.O.N), WHITE FINISH	WITH SEISMIC CLIP
B		PAR	T-BAR CEILING RETURN DIFFUSER	PERFORATED FACE, SQUARE NECK, WHITE FINISH	--
C		50F	FLUSH MOUNT EXHAUST REGISTER - SIDEWALL AND CEILING	EGG CRATE, WHITE FINISH	--
D		TDC	SURFACE MOUNT CEILING SUPPLY DIFFUSER	LOUVERED FACE, ROUND NECK, 4 WAY (U.O.N), WHITE FINISH	--
<div>CEILING DIFFUSER:<div><div>NECK</div><div>12x24</div><div>300A</div><div>FACE</div><div>TYPE</div><div>CFM</div></div><div>SIDEWALL REGISTER:<div><div>NECK</div><div>12x24</div><div>300A</div><div>TYPE</div><div>CFM</div></div></div></div>					

San Rafael City Schools



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510-569-2000



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2023-SR001-002

Mechanical Schedules

M-002

SCALE: N.T.S			13	SCALE: N.T.S			15	SCALE: N.T.S			16			
PIPE THRU ROOF DETAIL			SCALE: N.T.S	9	SCALE: N.T.S			11	SCALE: N.T.S			12		
CEILING MOUNT FAN COIL DETAIL			SCALE: N.T.S	6	ROOF MOUNT CONDENSER DETAIL			SCALE: N.T.S			8			
<p>NOTES:</p> <p>ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL BE LOCATED NO MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE RECEPTACLE OUTLET BOX NOR LESS THAN 15 INCHES MEASURED FROM THE BOTTOM OF THE RECEPTACLE OUTLET BOX TO THE LEVEL OF THE FINISHED FLOOR OR WORKING PLATFORM. IF THE REACH IS OVER A PHYSICAL BARRIER OR AN OBSTRUCTION (FOR EXAMPLE, A KITCHEN BASE CABINET), RECEPTACLES SHALL BE LOCATED WITHIN THE REACH RANGES SPECIFIED IN SECTION 1138A.3. PHYSICAL BARRIERS AND OBSTRUCTIONS SHALL NOT EXTEND MORE THAN 25 INCHES FROM THE WALL BENEATH THE RECEPTACLE. 2016 CBC §1136A.1 (2016 CBC §11B-308.11 & 11B-308.1.2).</p>				<p>NOTES:</p> <p>INSTALLATION SHALL COMPLY W/ LATEST SMACNA STANDARDS. SUBMIT SHOP DRAWINGS FOR MOUNTING TO ENGINEER. ALTERNATE INSTALLATIONS SHALL BE APPROVED BY ENGINEER.</p> <p>SEISMIC RESTRAINT FOR DUCTWORK IS NOT REQUIRE PER CBC 1617A.A.25 SECTION 13.6.6 EXCEPTION 1.b.</p> <p>MAXIMUM SUPPORT SPACING OF 8'</p>										
CONTROL DEVICE ADA MOUNTING HT.			SCALE: N.T.S	1	DUCT SUPPORT			SCALE: N.T.S	3	ROOF FAN MOUNTING DETAIL			SCALE: N.T.S	4

DIAGRAM	SYMBOL	LEGEND
---	---	DESCRIPTION
---	---	POWER WIRE
---	---	CONTROL WIRE
---	---	REF. PIPE

PIPING AND CONTROLS	
SYMBOL LIQUID PIPE/GAS PIPE SIZE	
P1	1/4 / 3/8
P2	1/4 / 1/2
SYMBOL	MODEL NUMBER
CR	PAC-YT530RAU-J
P	PAC-UKPRC001-CN-1

Diamond System Builder
sw: 5.2.1.5
db: 5.2.1.4
1/30/2024
10:32 AM

This drawing is schematic in nature. Final routing of piping & wiring shall be determined by the installing contractor and/or designer of record

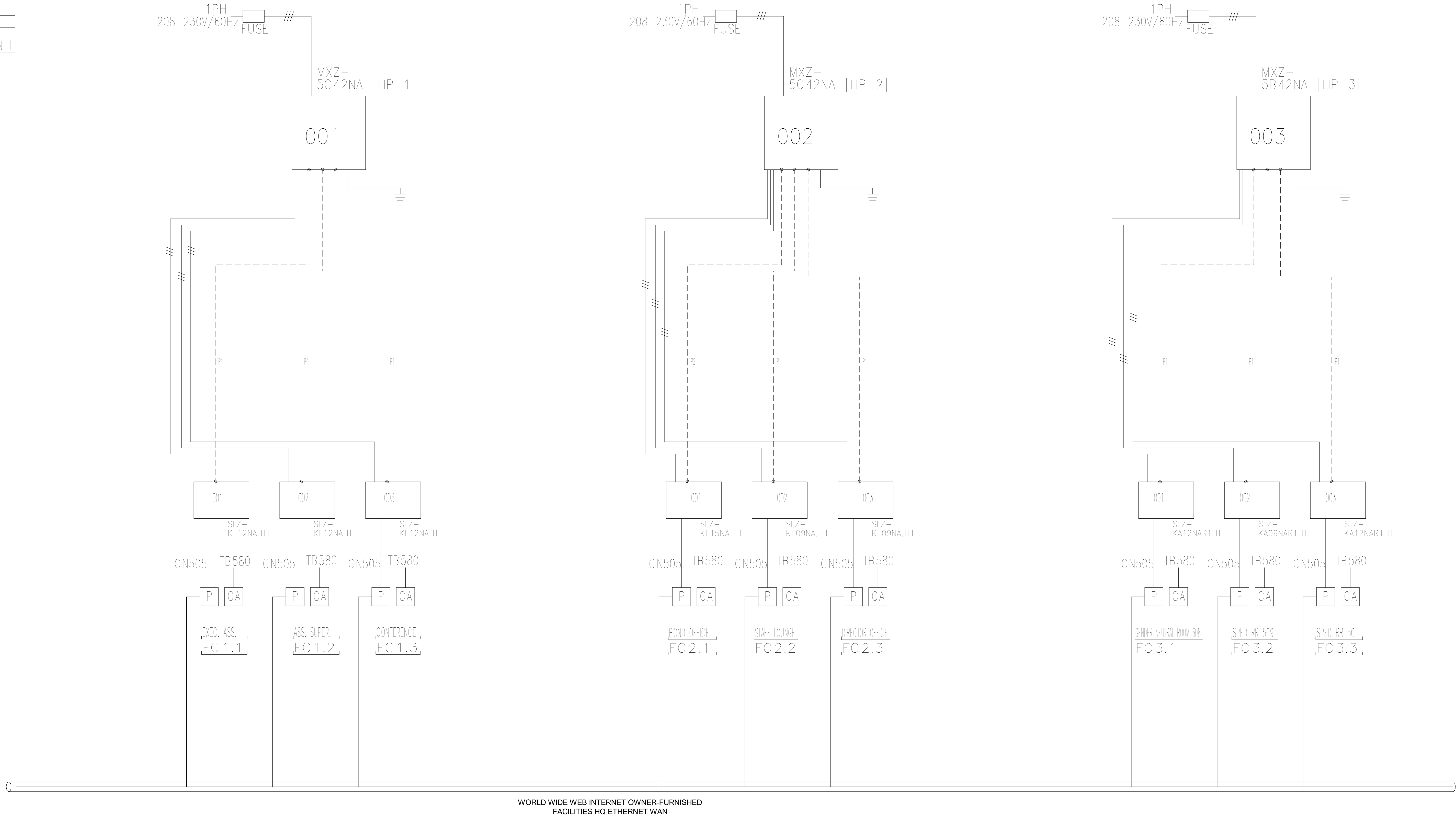
Additional refrigerant charge is needed depending on the size and length of extended piping. Please refer the amount of pre-charge and the formula of calculation which is mentioned on the data book.

1.25mm²(16 AWG) : 1.25mm²(16 AWG) or more.

0.75mm²(20 AWG) : between 0.5mm²(24 AWG) and 0.75mm²(20 AWG).

Coded Notes:

NOTE 1: Install twinning Y's within 15 degrees of level and with 20 inches of straight pipe on converging connection - reference installation manual for additional details including but not limited to special trapping requirements when twinning, and pipe slope requirements

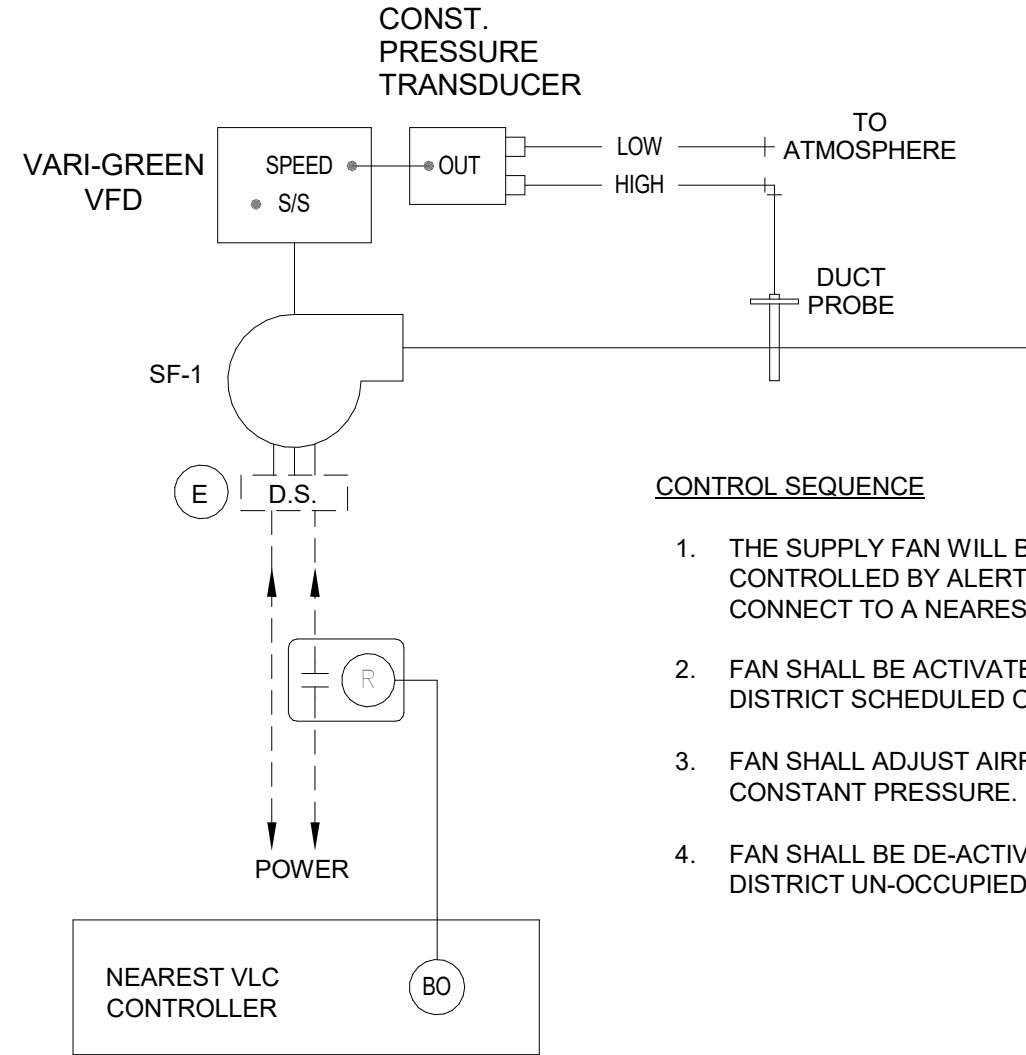
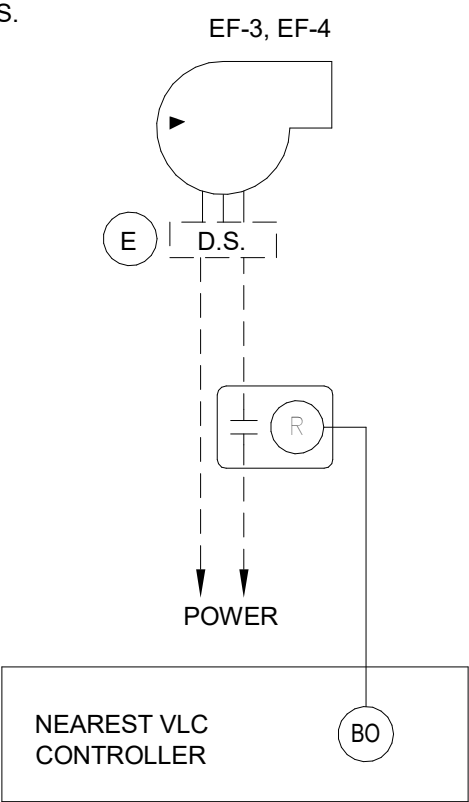
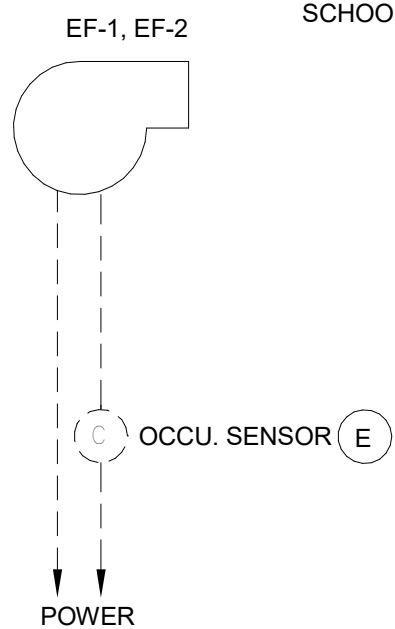


SPLIT SYSTEM POWER, CONTROL AND PIPING DIAGRAM

SCALE: N.T.S 8

CONTROL SEQUENCE

1. THE EXHAUST FAN WILL BE DIRECTLY CONTROLLED BY ALERTON CONTROL CONNECT TO A NEAREST VLC CONTROLLER.
2. FAN SHALL BE ACTIVATED ON BY THE SCHOOL SCHEDULED OCCUPIED HOURS.
3. FAN SHALL BE DE-ACTIVATED OFF DURING SCHOOL UN-OCCUPIED HOURS.



CONTROL SEQUENCE

1. THE SUPPLY FAN WILL BE DIRECTLY CONTROLLED BY ALERTON CONTROL CONNECT TO A NEAREST VLC CONTROLLER.
2. FAN SHALL BE ACTIVATED ON BY THE DISTRICT SCHEDULED OCCUPIED HOURS.
3. FAN SHALL ADJUST AIRFLOW TO MAINTAIN CONSTANT PRESSURE.
4. FAN SHALL BE DE-ACTIVATED OFF DURING DISTRICT UN-OCCUPIED HOURS.

FAN CONTROL DIAGRAM

SCALE: N.T.S 2

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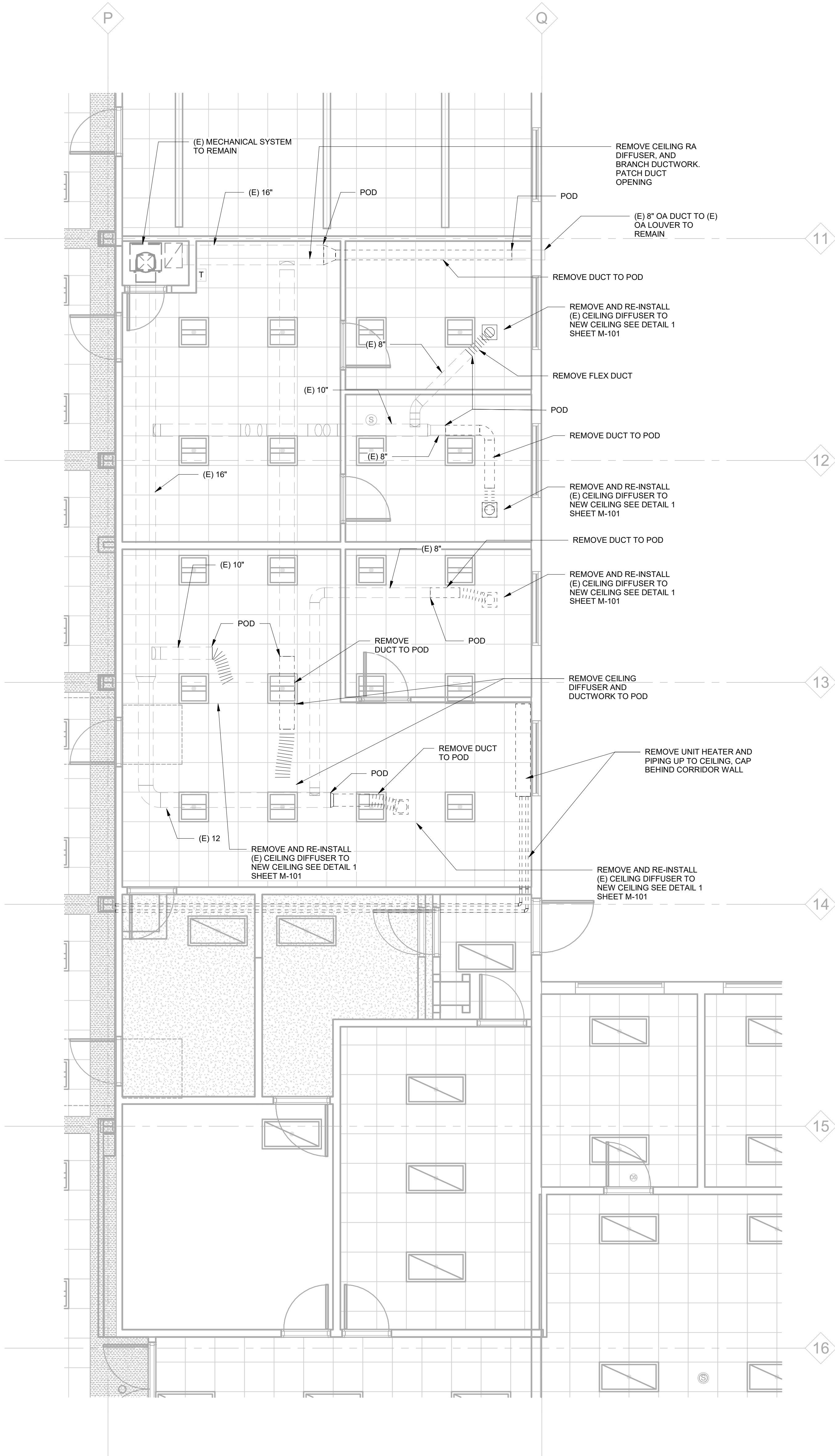
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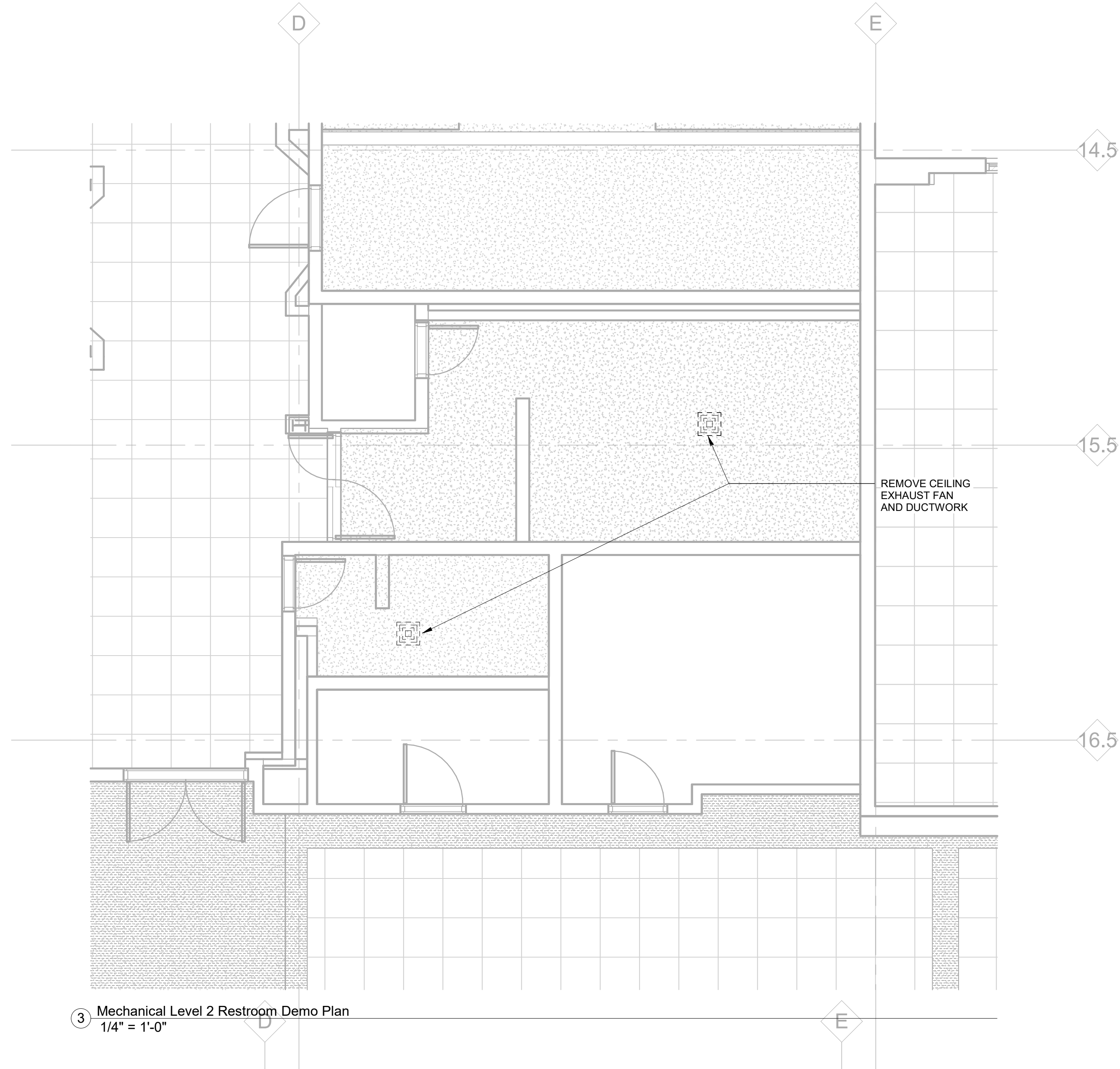
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Mechanical Controls

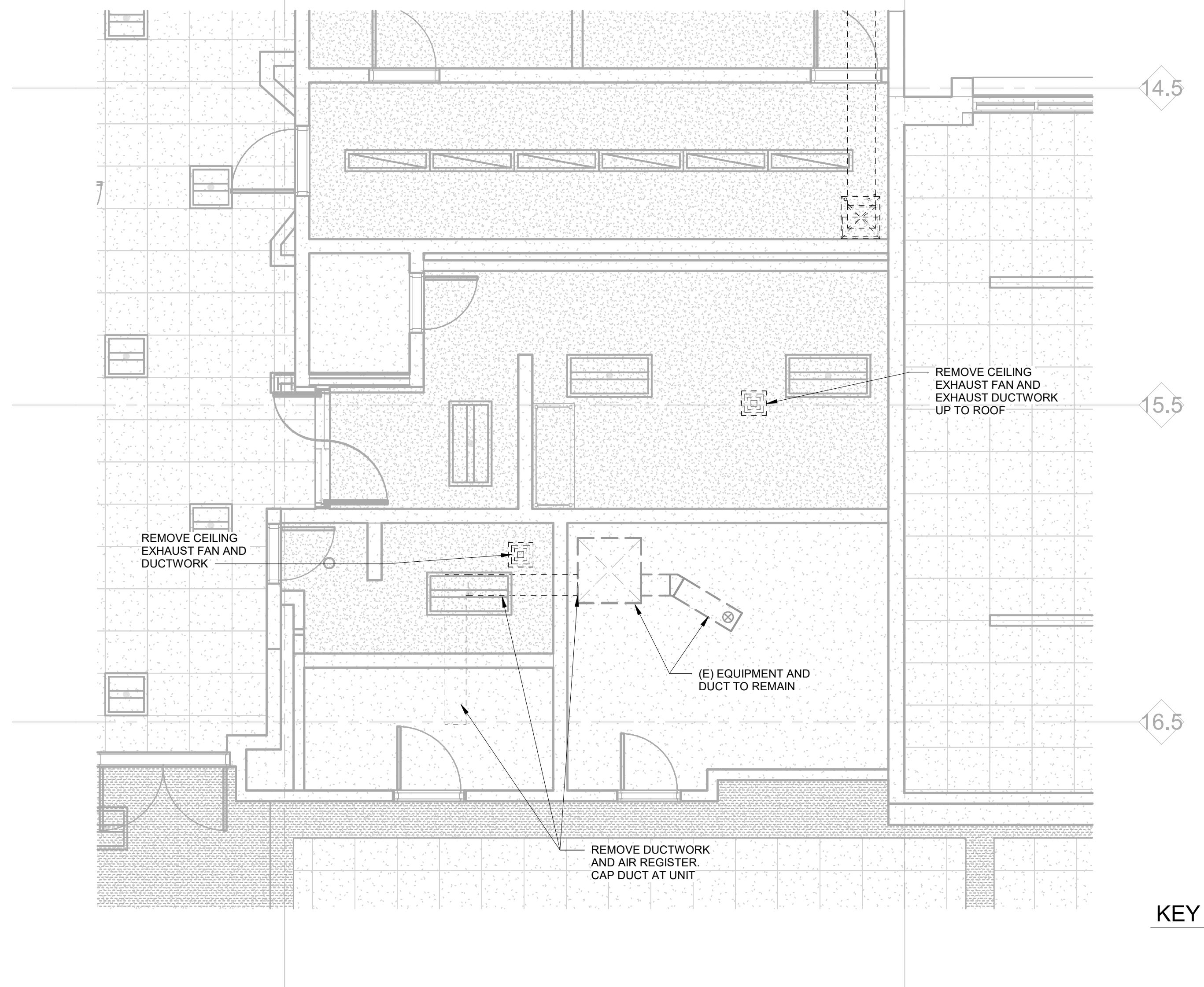
M-004



1 Mechanical Wellness Center Demo Plan
1/4" = 1'-0"

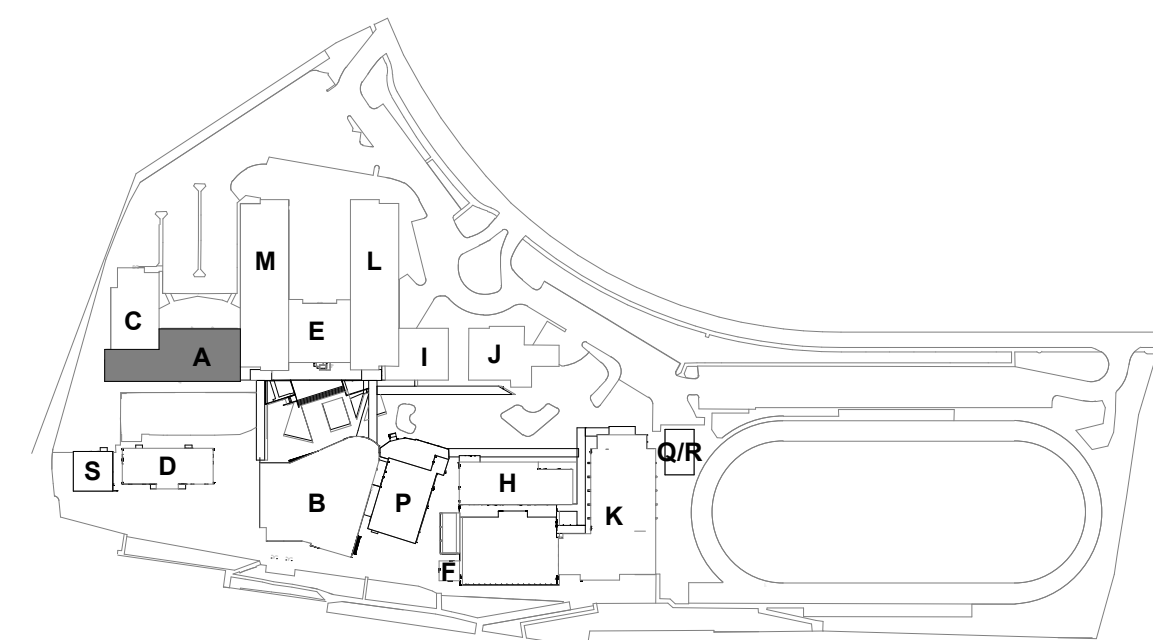


3 Mechanical Level 2 Restroom Demo Plan
1/4" = 1'-0"



2 Mechanical Level 1 Restroom Demo Plan
1/4" = 1'-0"

KEY PLAN



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NOT FOR CONSTRUCTION

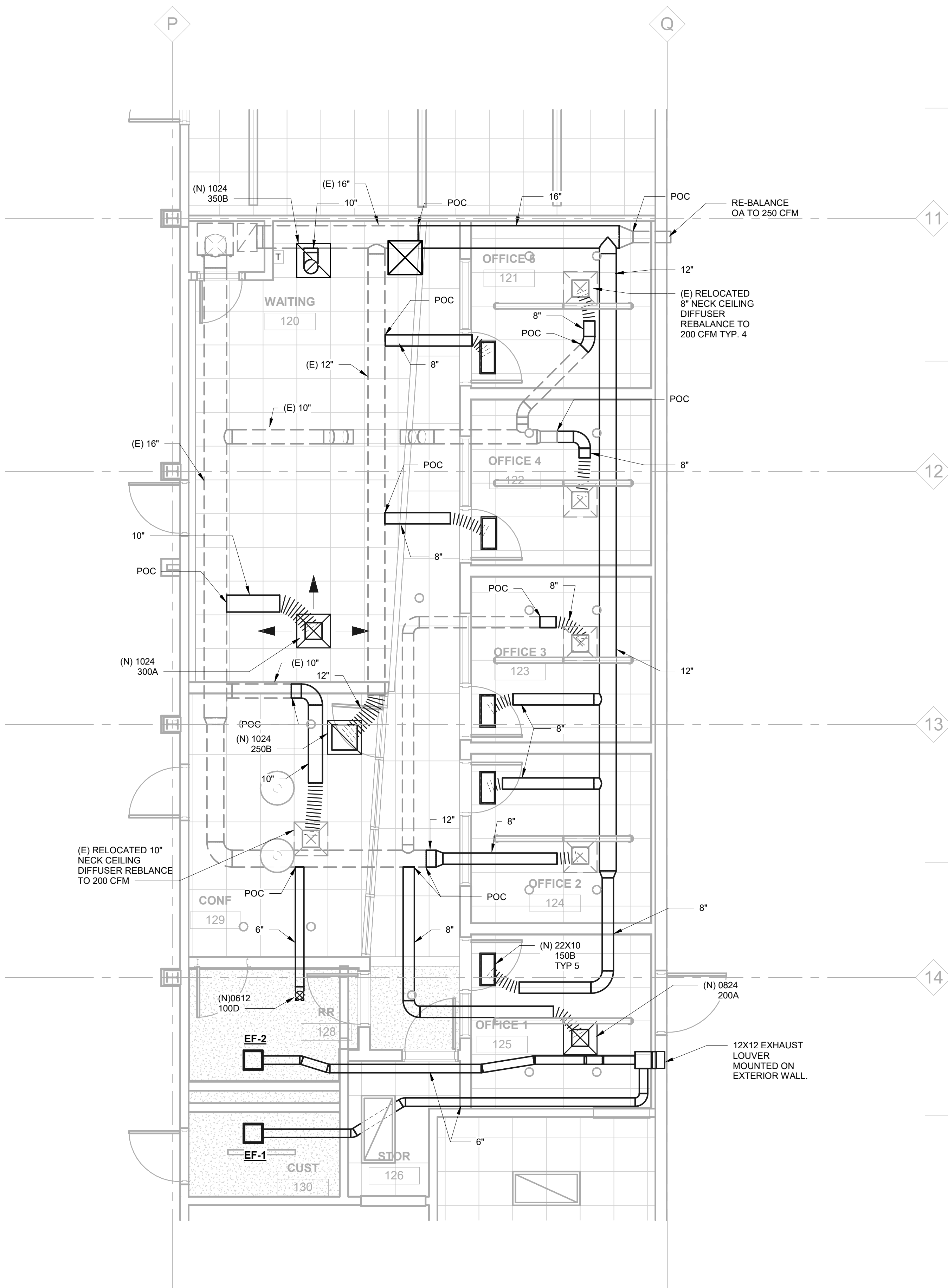
FOR REFERENCE ONLY



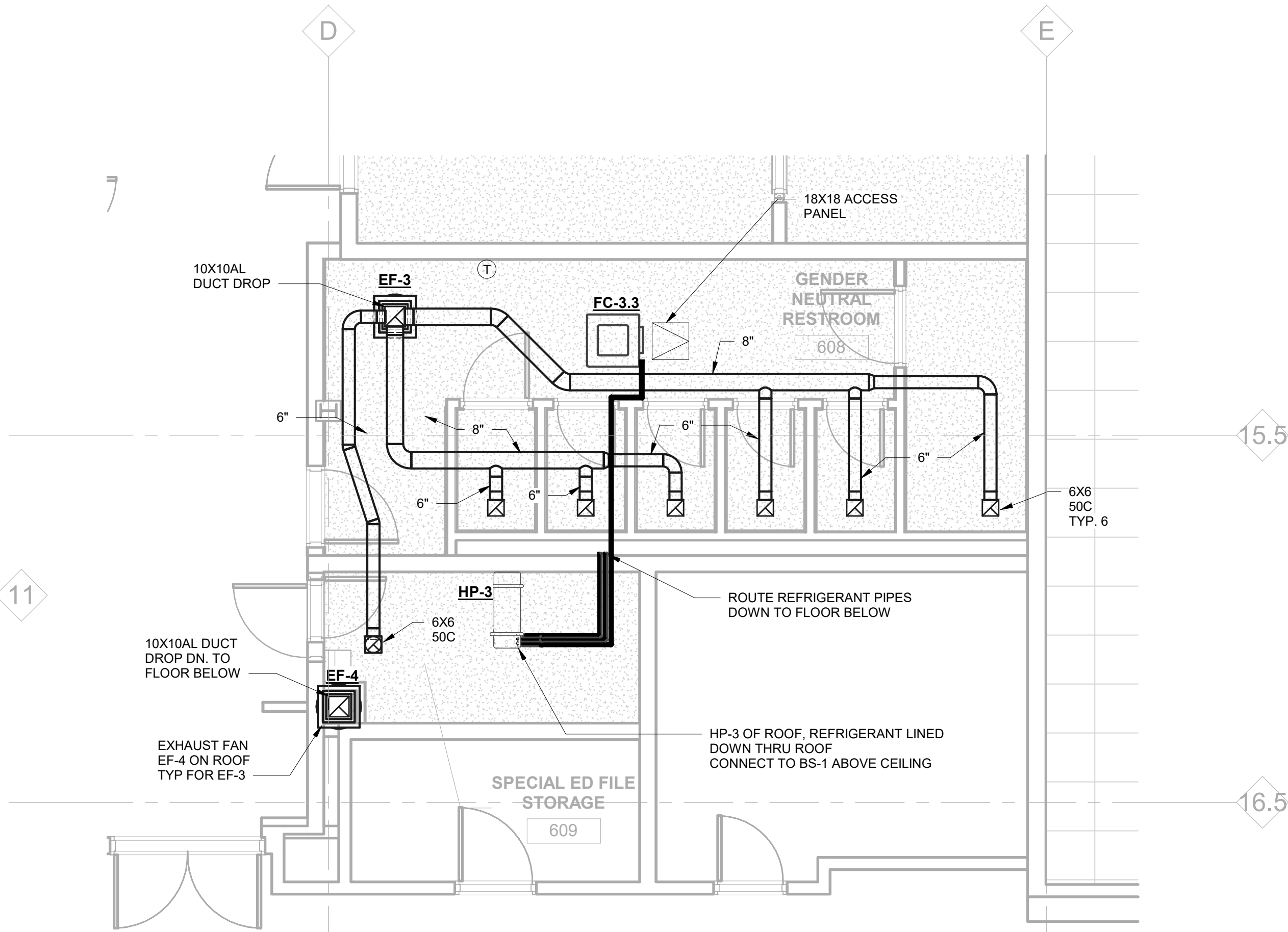
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Mechanical Demolition Plans

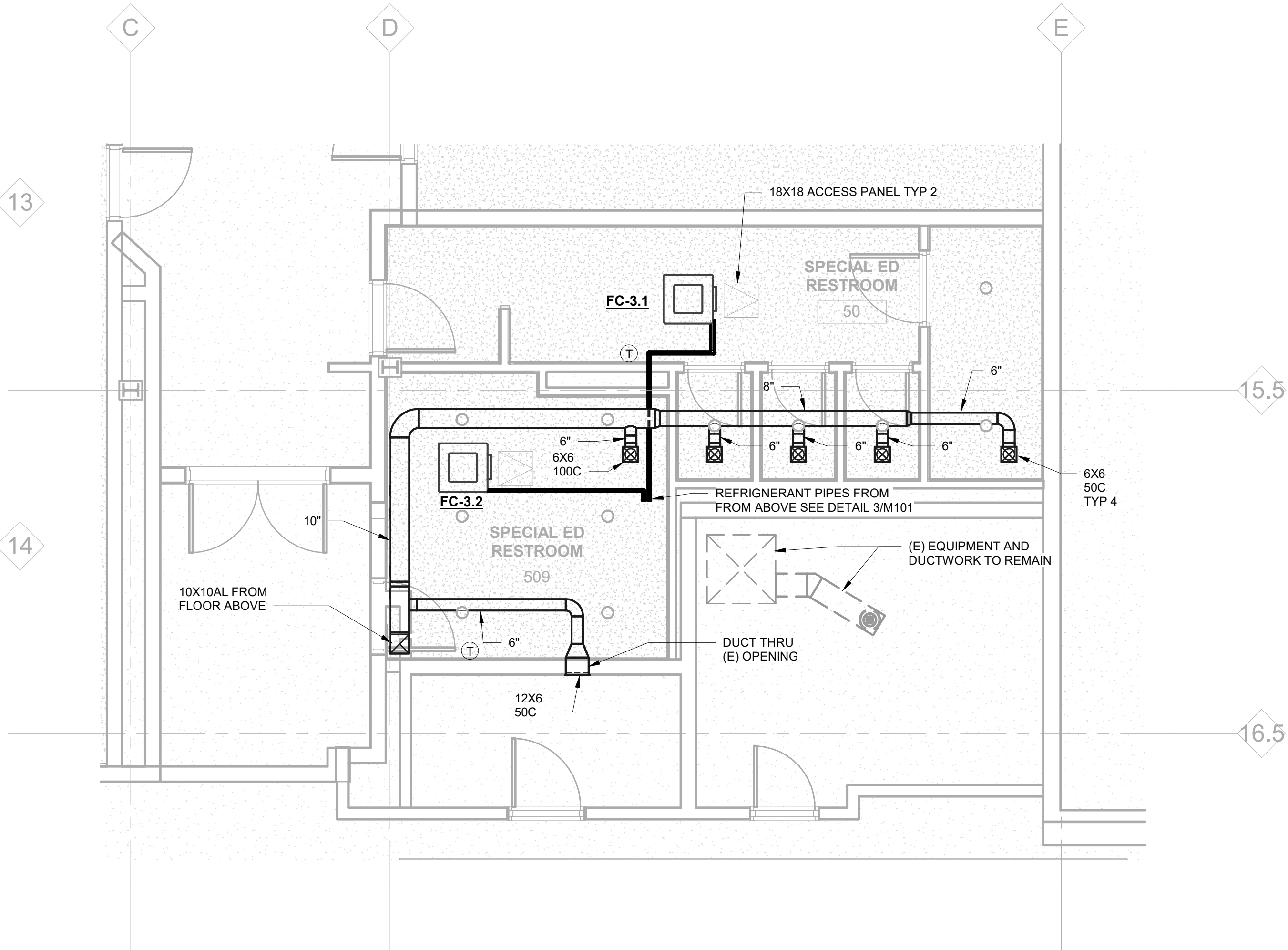
MD-101



1 Mechanical Wellness Center Floor Plan
1/4" = 1'-0"

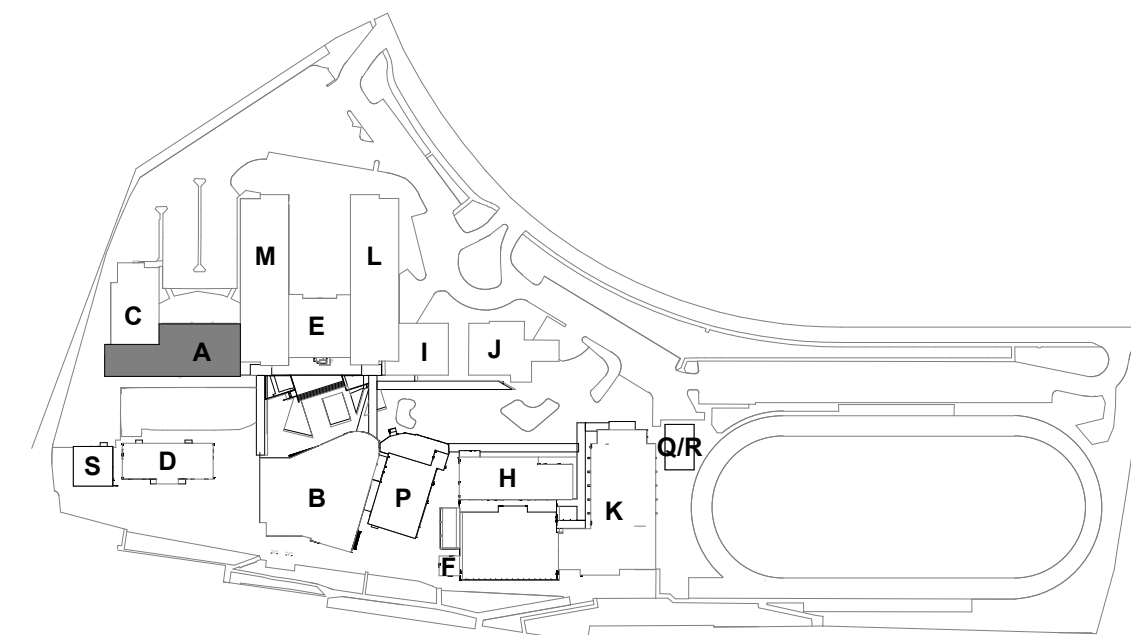


2 Mechanical Level 2 Restroom Plan
1/4" = 1'-0"



3 Mechanical Level 1 Restroom Plan
1/4" = 1'-0"

KEY PLAN



San Rafael City
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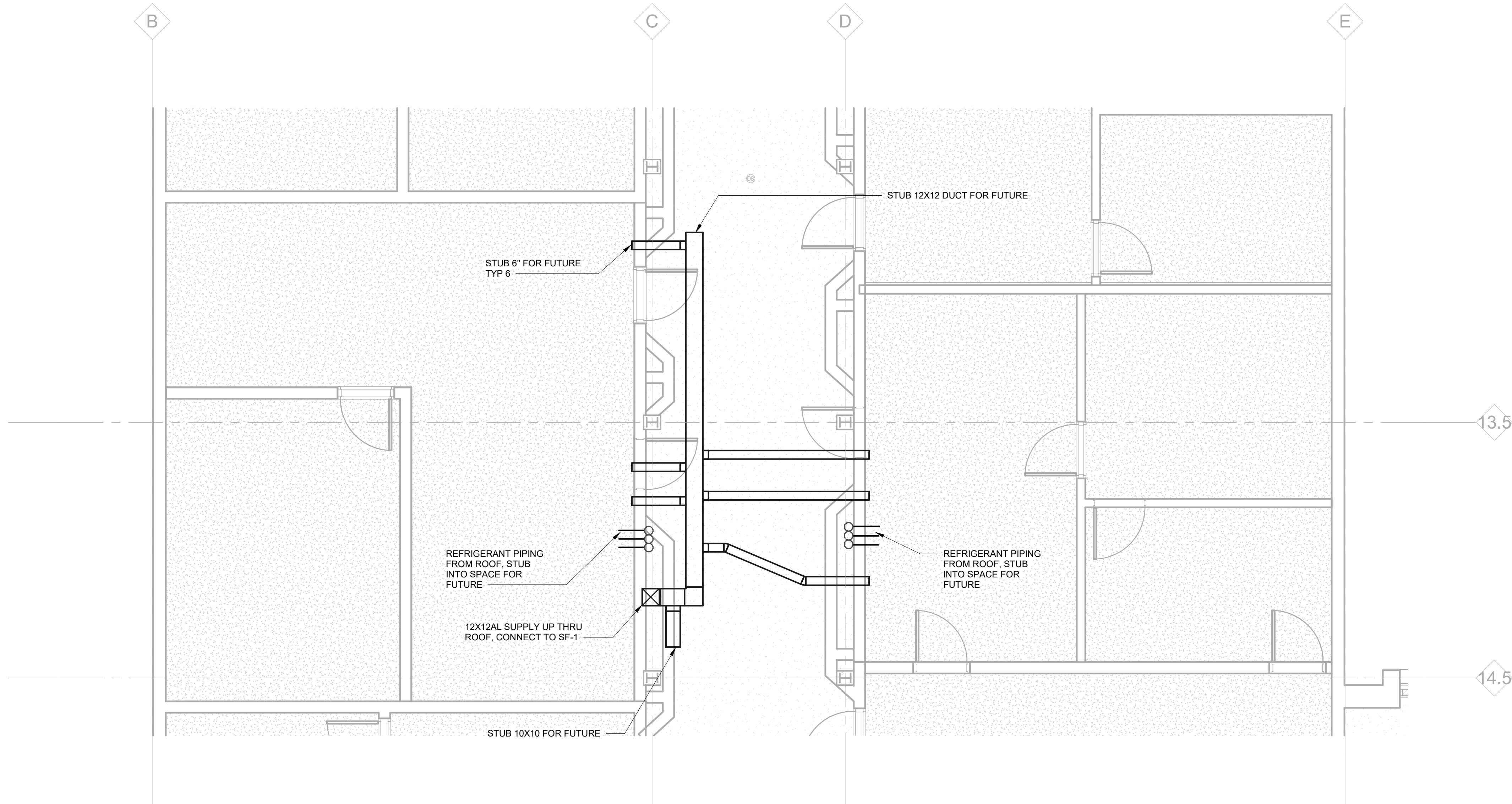
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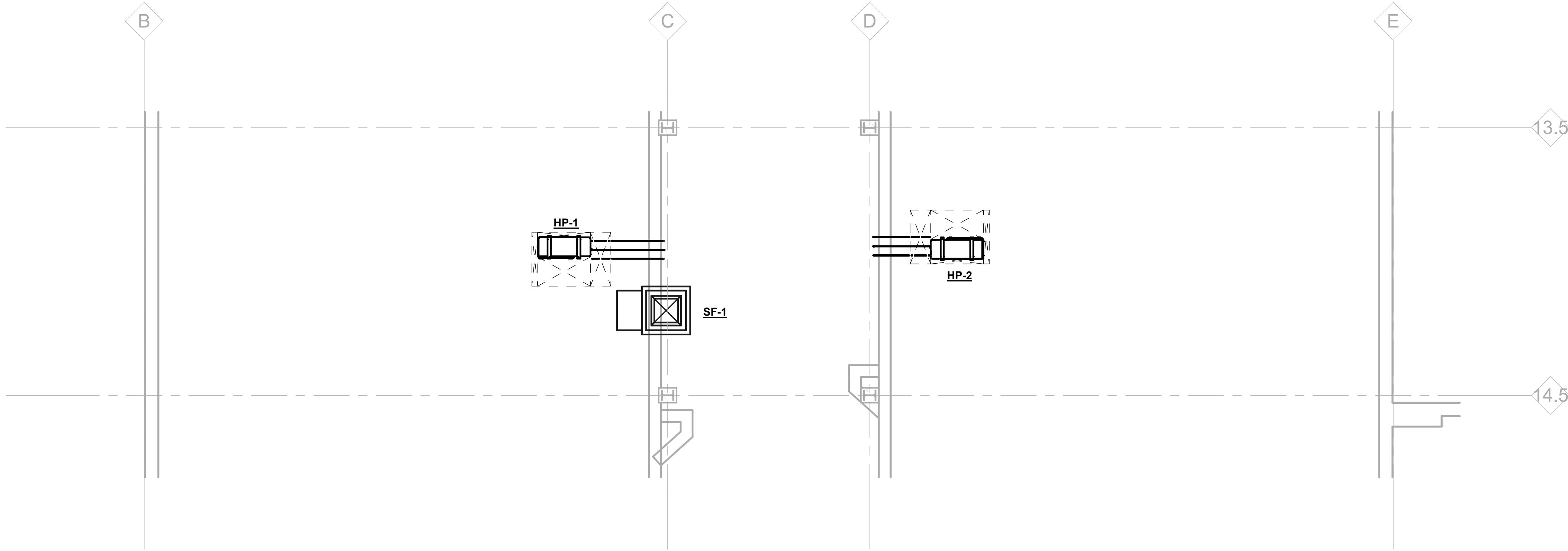
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Mechanical Floor
Plans

M-101

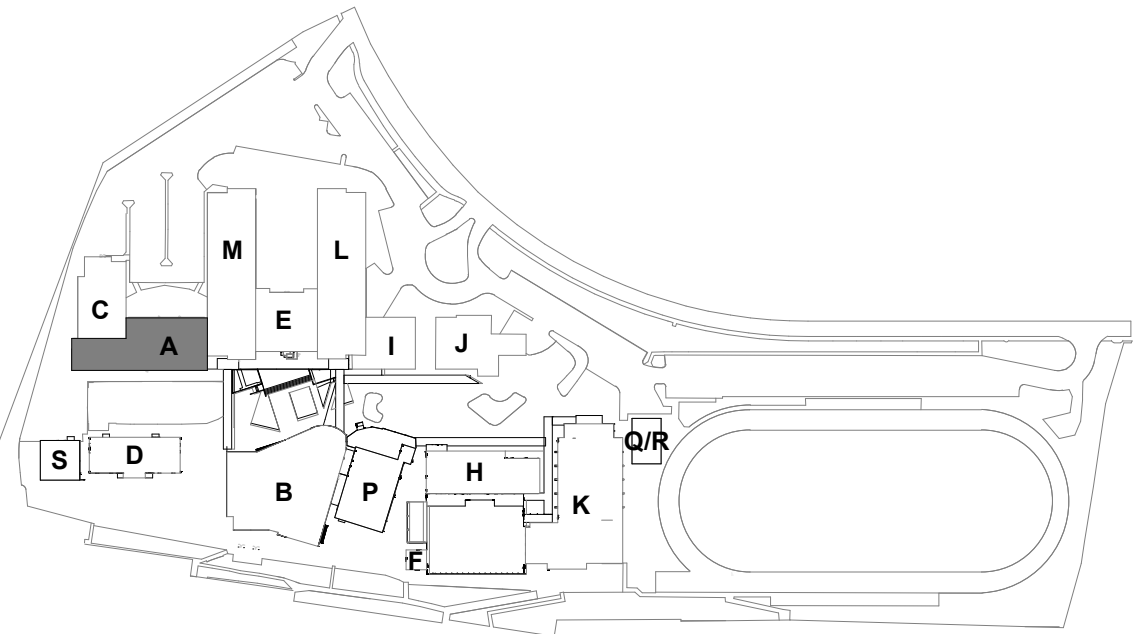


① Mechanical Level 1 District Office
1/4" = 1'-0"



② Mechanical ROOF PLAN
1/4" = 1'-0"

KEY PLAN



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Mechanical District Office Plans

M-201

ANCHORAGE NOTES
ELECTRICAL ANCHORAGE NOTES.
ALL ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16, CHAPTER 13, 26, AND 30.
<div><div>1. ALL PERMANENT EQUIPMENT AND COMPONENTS.</div><div>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 FLUSH FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.</div><div>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.</div></div>
THE FOLLOWING ELECTRICAL COMPONENTS SHALL BE 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 CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.
<div><div>A. COMPONENT WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.</div><div>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 WALL.</div></div>
THE ANCHORAGE OF ALL ELECTRICAL COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.
ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:
ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2022 CBC SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26.
THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (eg. OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.
ELECTRICAL DISTRIBUTION SYSTEMS ARE: [X] - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS [] - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #).
LIGHT FIXTURES:
ALL LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURE. A MINIMUM OF TWO SCREWS OR APPROVED FASTENERS ARE REQUIRED AT EACH LIGHT FIXTURE. PER ASTM E580, SECTION 5.3.1.
SURFACE-MOUNTED LIGHT FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES. THE CLAMPING DEVICE SHALL COMPLETELY SURROUND THE SUPPORTING CEILING RUNNER AND BE MADE OF STEEL WITH A MINIMUM THICKNESS OF #14 GAGE. ROTATIONAL SPRING CATCHES DO NOT COMPLY. A #12 GAGE SLACK SAFETY WIRE SHALL BE CONNECTED FROM EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE EIGHT (8) FEET OR LONGER OR EXCEED 56 LB. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED EIGHT (8) FEET.
LIGHT FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LB. SHALL HAVE A MINIMUM OF ONE (1) #12 GAGE SLACK SAFETY WIRE CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE.
LIGHT FIXTURES WEIGHING GREATER THAN 10 LB. 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 TO THE STRUCTURE ABOVE. EXCEPTION: ALL LIGHT FIXTURES GREATER THAN TWO BY FOUR FEET WEIGHING LESS THAN 56 LBS. SHALL HAVE A #12 GAGE SLACK SAFETY WIRE AT EACH CORNER.

GENERAL DEMOLITION NOTES
1. THE CONTRACTOR SHALL VERIFY IN THE FIELD ALL LINES, LEVELS, DIMENSIONS AND EXISTING CONDITIONS. THE INFORMATION ON THE DRAWINGS REGARDING EXISTING ELECTRICAL EQUIPMENT AND BRANCH CIRCUITS IS THE RESULT OF FIELD SURVEY AND IS ACCURATE TO THE BEST OF OUR KNOWLEDGE. IT IS INTENDED, HOWEVER, AS A GUIDE FOR USE IN VERIFICATION ONLY.
2. ANY EXISTING ELECTRICAL EQUIPMENT IN THE AREA OF NEW CONSTRUCTION NOT SHOWN ON THE EXISTING PLANS SHALL BE DOCUMENTED AND SUBMITTED TO THE ENGINEER FOR DETERMINATION OF ACTION REQUIRED.
3. WHEREVER THE REMOVAL OF EXISTING ELECTRICAL EQUIPMENT IS CALLED FOR AND ALL EQUIPMENT ON A PARTICULAR BRANCH CIRCUIT IS TO BE REMOVED, ALL CONDUIT AND WIRE BACK TO THE PANEL SHALL BE ENTIRELY REMOVED AND THE CIRCUIT IN PANEL SHALL BE MARKED "SPARE." THIS APPLIES TO SIGNAL AND COMMUNICATIONS SYSTEMS EQUIPMENT, CONDUIT, AND WIRE AS WELL.
4. WHEREVER THE REMOVAL OF EXISTING ELECTRICAL EQUIPMENT IS CALLED FOR AND ALL EQUIPMENT ON A PARTICULAR BRANCH CIRCUIT IS NOT TO BE REMOVED, THE CIRCUIT SHALL BE MAINTAINED CONTINUOUS TO THE EXISTING EQUIPMENT IN USE WITH MINIMUM INTERRUPTIONS OF POWER. THIS APPLIES TO SIGNAL AND COMMUNICATIONS SYSTEMS EQUIPMENT, CONDUIT, AND WIRE AS WELL.
5. WHENEVER THE REMOVAL OF EXISTING CONSTRUCTION REVEALS ELECTRICAL WORK THAT IS TO REMAIN, BUT IS IN CONFLICT WITH NEW CONSTRUCTION, RELOCATE THE EXISTING ELECTRICAL WORK AS NECESSARY TO AVOID ANY CONFLICT. RELOCATION WORK SHALL BE DONE TO MINIMIZE ANY INTERRUPTIONS OF POWER.
6. CARE SHALL BE TAKEN IN ORDER TO IDENTIFY AND PROTECT ALL EXISTING ELECTRICAL WORK THAT IS TO REMAIN.
7. ENSURE RECONNECTION OF EXISTING DEVICES WHOSE CIRCUITS HAVE BEEN INTERRUPTED BY DEMOLITION BY PROVIDING NEW CONNECTION TO ANOTHER EXISTING TO REMAIN DEVICE OR PANEL.
8. ALL EXISTING ELECTRICAL EQUIPMENT SHOWN ON THE PLANS FOR NEW WORK ARE THOSE WHICH ARE TO BE REUSED DURING SOME PHASE OF THE NEW CONSTRUCTION OR REQUIRE SOME SPECIAL CONSIDERATIONS.
9. WHENEVER THE REMOVAL OF EXISTING ELECTRICAL PANELBOARDS ARE CALLED FOR AND ALL EXISTING BRANCH CIRCUITS ARE NOT TO BE REMOVED, THE EXISTING BRANCH CIRCUITS SHALL BE CONNECTED TO OTHER EXISTING ELECTRICAL EQUIPMENT OR PANELS STILL IN USE WITH MINIMUM INTERRUPTIONS OF POWER. ALSO, IF REQUIRED, THESE SAME BRANCH CIRCUITS SHALL BE RECONNECTED TO RELOCATED EXISTING OR NEW PANELBOARDS AS PART OF THE NEW CONSTRUCTION. THIS APPLIES TO SIGNAL AND COMMUNICATIONS SYSTEMS EQUIPMENT, CONDUIT AND WIRE AS WELL.
10. THE ELECTRICAL CONTRACTOR SHALL REVISE EXISTING PANEL SCHEDULES TO CORRESPOND TO ACTUAL CONDITIONS AFTER ALL DEMOLITION AND NEW WORK IS COMPLETED.
11. REMOVE ALL ABANDONED CONDUIT AND WIRE ABOVE CEILINGS.
12. WHEN ELECTRICAL EQUIPMENT OR DEVICE IS REMOVED FROM AN EXISTING WALL OR CEILING WHICH IS TO REMAIN, PATCH ABANDONED OPENINGS TO MATCH EXISTING FINISH.
13. IN GENERAL, THE DEMOLITION PLANS SHOW ALL EXISTING EQUIPMENT THAT IS TO BE REMOVED UNLESS NOTED OTHERWISE. HOWEVER, ELECTRICAL EQUIPMENT, WHETHER SHOWN ON THIS DRAWING OR NOT, WHERE LOCATED IN THE AREA SCHEDULED TO BE DEMOLISHED, SHALL BE REMOVED COMPLETELY (INCLUDING CONDUIT AND WIRES BACK TO THE LAST REMAINING FIXTURE, OUTLET, DEVICE, ETC.) UNLESS OTHERWISE NOTED. COORDINATE DEMOLITION WORK WITH ARCHITECT AND GENERAL CONTRACTOR.
14. EXISTING CONDUIT FEEDS UP THROUGH FLOOR SHALL BE CUT OFF AND PLUGGED FLUSH WITH FLOOR WHERE EXISTING WALLS, ETC. ARE REMOVED. REMOVE CONDUCTORS FROM THE POINT BACK TO LAST OUTLET REMAINING IN SERVICE.
15. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO MAINTAIN CONTINUITY OF ALL ELECTRICAL SYSTEMS, EQUIPMENT, ETC. REMAINING IN OPERATION WHICH IS BEING FED BY AN ABANDONED OUTLET. MAINTAINING CONTINUITY SHALL CONSIST OF REROUTING OF CONDUIT, WIRE, ETC. AS REQUIRED.
16. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF EXISTING CIRCUITS AND ADJUST CIRCUIT NUMBERS ACCORDING TO EXISTING CONDITIONS IF REQUIRED
17. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO REMOVAL OF EXISTING ELECTRICAL EQUIPMENT AND TURN OVER REMOVED EQUIPMENT THAT THE OWNER REQUESTS, IN AS-FOUND CONDITION. EQUIPMENT THAT IS TO BE TURNED OVER SHALL BE BOXED AND TAGGED TO IDENTIFY THE SPECIFIC EQUIPMENT. EQUIPMENT TO BE TEMPORARILY REMOVED DUE TO THE CONSTRUCTION SHALL BE CLEANED AND RE-INSTALLED IN ITS ORIGINAL CONDITION OR AS REQUIRED.
18. WHERE EXISTING WALLS HAVE BEEN REMOVED, AND THERE ARE EXISTING CONDUIT FEEDS WHICH HAVE BEEN CUT OFF AND CAPPED FLUSH WITH THE FLOOR, IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND DIMENSION ALL SUCH CONDUITS ON THE "AS-BUILT" DRAWINGS.
19. IF ANY EQUIPMENT THAT IS SCHEDULED TO REMAIN IN OPERATION IS DAMAGED BY THE CONTRACTOR, IT SHALL BE REPLACED TO ITS ORIGINAL CONDITION SATISFACTORY TO THE OWNER AT CONTRACTOR'S EXPENSE.

ABBREVIATIONS
AFF ABOVE FINISHED FLOOR
AFG ABOVE FINISHED GRADE
C CONDUIT
CATV CABLE TV
CB CIRCUIT BREAKER
CO CONDUIT ONLY
CU COPPER
DP DISTRIBUTION PANEL
E.C. ELECTRICAL CONTRACTOR
E.G.C. EQUIPMENT GROUNDING CONDUCTOR
EM EMERGENCY
EMS ENERGY MANAGEMENT SYSTEM
EQPT EQUIPMENT
EXT EXTERIOR
(E) EXISTING
(ER) EXISTING EQUIPMENT TO BE RELOCATED
(EX) EXISTING EQUIPMENT TO BE DEMOLISHED
FA FIRE ALARM
FMC FLEXIBLE METALLIC CONDUIT
FO FIBER OPTIC
FTL FEED THROUGH LUGS
G.E.C. GROUNDING ELECTRODE CONDUCTOR
GFI GROUND FAULT CIRCUIT INTERRUPTING TYPE RECEPTACLE
INV INVERTER, EM LIGHTING OR PHOTOVOLTAIC.
IDF INTERMEDIATE DISTRIBUTION FRAME
L LOOKABLE
LTG LIGHTING
LV LOW VOLTAGE
MC METAL CLAD CABLING
MCB MAIN CIRCUIT BREAKER
MDF MAIN DISTRIBUTION FRAME
MGRF MANUFACTURER
MLO MAIN LUGS ONLY
MTD MOUNTED
(N) NEW
N.E.C. NATIONAL ELECTRICAL CODE
NEU NEUTRAL
NIEC NOT IN ELECTRICAL CONTRACT
OAH OVERALL HEIGHT
OFCI OWNER FURNISHED, CONTRACTOR INSTALLED
P INDICATES FIXTURES ON PHOTOCCELL CONTROL
PA PUBLIC ADDRESS
PNL PANEL
S.A.D. SEE ARCHITECTURAL DRAWINGS
SIG SIGNAL SYSTEM
SPD SURGE PROTECTION DEVICE
STC SIGNAL TERMINAL CABINET
SWBD SWITCHBOARD
TELE TELEPHONE
UFER CONCRETE ENCASED CU G.E.C.
UG UNLESS OTHERWISE NOTED
UG UNDERGROUND
VAV VAV BOX. SEE MECHANICAL DIVISION DRAWINGS FOR LOCATIONS. PROVIDE TOGGLE TYPE DISCONNECT SWITCH.
WP WEATHER PROOF, NEMA 3R, EQUALS "WHILE IN USE" TYPE WHEN APPLIED TO EXTERIOR POWER RECEPTACLES
XFMR TRANSFORMER

GENERAL ELECTRICAL NOTES
21. THE CONTRACTOR SHALL PAY FOR ALL REQUIRED PERMITS AND INSPECTION FEES.
22. THE CONTRACTOR SHALL VERIFY ALL CRITICAL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
23. ALL EXIT SIGNS SHALL COMPLY WITH THE RELEVANT PORTIONS OF SECTIONS 1008 AND 1013 OF THE CBC.
24. ALL MECHANICAL DIVISION EQUIPMENT LOW VOLTAGE CONTROL WIRING AND RACEWAY SHALL BE PROVIDED AND INSTALLED AS SPECIFIED IN MECHANICAL DIVISION U.O.N.
25. COORDINATE INSTALLATION OF ALL RECESSED LUMINAIRE(S) WITH MECHANICAL DIVISION PRIOR TO INSTALLATION OF HVAC DUCTS AND SPRINKLER HEADS. ENSURE AFTER INSTALLATION OF LUMINAIRE(S) THAT THERE IS NO CONTACT BETWEEN DUCTS AND LUMINAIRE(S) TO AVOID VIBRATION IN LUMINAIRE(S).
26. USE FLEXIBLE CONDUIT FOR ALL MOTOR, TRANSFORMER, RECESSED LUMINAIRE CONNECTIONS, AND CONNECTIONS BETWEEN TWO SEPARATE STRUCTURES AND FOR ALL FINAL CONNECTIONS TO "CRITICAL EQUIPMENT" AS DEFINED IN SPECIFICATIONS. MINIMUM 1/2" DIAMETER, LIQUID TIGHT TYPE USED OUTDOORS AND IN ALL WET LOCATIONS; PROVIDE WITH CODE-SIZE (MINIMUM #12) BARE GROUND WIRE IN ALL FLEXIBLE CONDUIT.
27. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR ALL BRANCH CIRCUITS FEEDING OUTLETS AS NOTED ON THE DRAWINGS.
28. FOR FLUSH MOUNTED PANELBOARDS THE CONTRACTOR SHALL STUD A MINIMUM OF FOUR (4) 3/4" CONDUITS FROM THE PANEL UP INTO THE ACCESSIBLE CEILING ABOVE FOR FUTURE CIRCUITS.
29. ALL CONDUIT CONNECTORS TO OUTLET OR JUNCTION BOXES SHALL HAVE INSULATED THROATS (MANUFACTURED AS AN INTEGRAL PART OF THE CONNECTOR). AFTER-MARKET INSERTABLE THROATS ARE NOT ACCEPTABLE.
30. ALL CIRCUITS IN ALL JUNCTION BOXES AND DEVICES SHALL BE CLEARLY IDENTIFIED BY MEANS OF "E2" NUMBERING TAGS OR EQUIVALENT, TO IDENTIFY THE CIRCUIT NUMBER OR RELAY SUPPLYING THE CONDUCTOR. ALL JUNCTION BOXES SHALL BE LABELED PER SPECIFICATIONS.
31. ALL SURFACE MOUNTED POWER AND SIGNAL BOXES IN FINISHED AREAS SHALL BE "WIREMOLD" TYPE, WITH MATCHING RACEWAYS, SURFACE MOUNTED STEEL JUNCTION BOXES AND/OR EMT ARE NOT ACCEPTABLE.
32. ALL LOCATIONS OF BARE METAL SURFACE MOUNTED CONDUIT, BOXES, PANEL COVERS, AND RELATED FITTINGS OR ACCESSORIES INSTALLED IN FINISHED AREAS (BOTH INTERIOR AND EXTERIOR) SHALL BE FINISH PAINTED TO MATCH THE SURFACE TO WHICH THEY ARE MOUNTED TO (AFTER INSTALLATION). PAINTING SHALL INCLUDE DIFFERENT COLORS AS REQUIRED TO MATCH EXISTING STRIPING OR OTHER BUILDING FEATURES TO WHICH THE EQUIPMENT IS ATTACHED AND VISIBLE. VERIFY EXACT JUNCTION BOX LOCATION(S) AND ROUTING OF EXPOSED RACEWAYS WITH THE ARCHITECT PRIOR TO ROUGH-IN.
33. PROVIDE A BLANK COVER PLATE (COLOR TO MATCH ADJACENT DEVICES OR AS SPECIFICALLY CALLED FOR IN SPECIFICATIONS) FOR ALL JUNCTION BOXES (NEW AND EXISTING) ON THE PROJECT WHEN NO DEVICE IS INSTALLED.
34. FOR OUTDOOR 15 AND 20-AMPERE, 125 AND 250-VOLT RECEPTACLES, RECEPTACLES LOCATED IN "WET" LOCATIONS SHALL HAVE "IN-USE" TYPE WEATHERPROOF COVER PLATES PROVIDED AND INSTALLED; RECEPTACLES LOCATED IN "DAMP" LOCATIONS SHALL HAVE "IN-USE" TYPE WEATHERPROOF COVER PLATES IN LOCATIONS DEEMED TO BE "IN-USE" WITH CORD AND PLUG ATTACHED.
35. TWO OR THREE DIFFERENT PHASES SUPPLIED BY A 3-PHASE PANEL MAY SHARE A SINGLE NEUTRAL ONLY IF CIRCUIT POSITIONS ARE ADJACENT IN THE PANEL. PROVIDE COMMON HANDLE-TIE ON BREAKERS FOR MULTI-WIRE BRANCH CIRCUITS, WITH COMMON NEUTRAL, PER NEC REQUIREMENTS.

GENERAL ELECTRICAL NOTES
1. PRIOR TO BID THE CONTRACTOR SHALL VISIT THE SITE TO ADEQUATELY DETERMINE ALL PRE-EXISTING CONDITIONS. BY THE ACT OF SUBMITTING A BID, THE CONTRACTOR WILL BE DEEMED TO HAVE COMPLIED WITH THE FOREGOING, TO HAVE ACCEPTED SUCH CONDITIONS, AND TO HAVE MADE ALLOWANCES THEREFORE IN PREPARING THE BID.
2. PROVIDE PARRY SIZED GREEN GROUND WIRE IN ALL POWER CONDUITS, BRANCH CIRCUITS (LIGHTING & POWER) AND HOMERUNS. PROVIDE ADDITIONAL ISOLATED GROUND, GREEN WITH YELLOW STRIPE, TO ALL ISOLATED GROUND RECEPTACLES.
3. PROVIDE PULLROPE IN ALL EMPTY CONDUITS THROUGHOUT THE PROJECT.
4. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION & CONNECTION REQUIREMENTS OF ALL LUMINAIRE(S) AND ALL OUTLET, SWITCH AND ELECTRICAL RELATED DEVICE MOUNTING HEIGHTS AND LOCATIONS. COORDINATE LOCATIONS OF ALL LUMINAIRE(S) AND JUNCTION BOXES WITH MECHANICAL DIVISION PRIOR TO ROUGH-IN. COORDINATE LOCATIONS OF ELECTRICAL DEVICES WITH FURNITURE PLANS PRIOR TO ROUGH-IN.
5. REFER TO MECHANICAL PLANS FOR EXACT LOCATION(S) OF ALL MECHANICAL EQUIPMENT, AND CONFIRM EXACT CONNECTION REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL DIVISION. PRIOR TO ROUGH-IN, VERIFY EXACT REQUIREMENTS FOR VOLTAGE, PHASE, HORSE-POWER, OR KVA RATINGS, OF ALL MECHANICAL DIVISION EQUIPMENT REQUIRING ELECTRICAL CONNECTION.
6. VERIFY EXACT CONNECTION REQUIREMENTS, OUTLET TYPE(S), MOUNTING HEIGHT(S) AND LOCATION(S) OF ALL OWNER-SUPPLIED EQUIPMENT, AND ALL EQUIPMENT PROVIDED UNDER OTHER SECTIONS OF THE SPECIFICATIONS. PRIOR TO ROUGH-IN, REFER TO ARCHITECTURAL DRAWINGS FOR EQUIPMENT LOCATIONS.
7. COORDINATE TRENCHING WITH OWNER AND OTHER TRADES BEFORE BEGINNING WORK.
8. ALL CONDUIT PENETRATIONS THROUGH FIRE-RATED WALLS AND FLOORS SHALL BE SEALED AND EQUIPPED WITH U.L. LISTED FIRE PENETRATION ASSEMBLIES TO MAINTAIN FIRE SEPARATION
9. DO NOT INSTALL ANY OUTLETS BACK TO BACK IN STUD WALLS OR DE-MOUNTABLE PARTITIONS.
10. THE CONTRACTOR SHALL VERIFY ALL CEILING TYPES BEFORE ORDERING OF LUMINAIRE(S). ALSO VERIFY THAT ALL FEATURES CALLED FOR IN LUMINAIRE DESCRIPTIONS ON THE LUMINAIRE SCHEDULE ARE INCLUDED WITH CATALOG NUMBERS LISTED ON THE LUMINAIRE SCHEDULES WHEN LUMINAIRE ORDERS ARE PLACED, AND ARE INCLUDED AS PART OF THE LIGHTING SUBMITTALS FOR THIS PROJECT. IF A DISCREPANCY EXISTS, CONTACT THE ARCHITECT AND ELECTRICAL ENGINEER FOR CLARIFICATION PRIOR TO BID.
11. CIRCUITRY AND CONDUIT ROUTING SHOWN ON THE PLANS IS DIAGRAMMATIC ONLY. THIS CONTRACTOR IS RESPONSIBLE FOR BECOMING COMPLETELY FAMILIAR WITH THE ARCHITECTURAL AND STRUCTURAL CONDITIONS AND LIMITATIONS IN THE BUILDING AND TO PROVIDE ALL LABOR, TOOLS AND MATERIALS REQUIRED TO PRODUCE A COMPLETELY CONCEALED INSTALLATION WHEREVER INDICATED ON THE PLANS.
12. MAINTAIN "AS-BUILT" RECORDS AT ALL TIMES, SHOWING EXACT LOCATION OF ALL UNDERGROUND AND/OR CONCEALED CONDUITS AND SERVICES INSTALLED UNDER THIS CONTRACT, INCLUDING CIRCUIT IDENTIFICATION WHERE APPLICABLE. PROVIDE OWNER WITH "AS-BUILT" DOCUMENTS AS INDICATED IN THE SPECIFICATIONS, AND/OR CALLED FOR IN THE SPECIFICATIONS.
13. DRAWINGS INDICATE THE LOCATION(S) OF DEVICES, LUMINAIRE(S) AND EQUIPMENT, AND THE CIRCUIT NUMBER AND PANEL DESIGNATED TO SUPPLY THEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETELY CONNECTING ALL ELECTRICAL DEVICES TO CIRCUITS INDICATED ON THE DRAWINGS.
14. UNLESS OTHERWISE NOTED, ALL WORK SHOWN ON DRAWINGS IS NEW AND TO BE PROVIDED AND INSTALLED COMPLETE UNDER THIS CONTRACT.
15. ALL EQUIPMENT GROUNDING SHALL CONFORM TO ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE, LATEST EDITION.
16. ALL EXTERIOR CONDUIT ABOVE GRADE, INCLUDING ALL ROOF MOUNTED CONDUIT, SHALL BE GALVANIZED RIGID STEEL. COAT ALL EXPOSED THREADS WITH GALVANIZING PAINT. PAINT ALL SURFACE MOUNTED RACEWAYS AND PULLBOXES TO MATCH SURROUNDING CONDITIONS, AS DIRECTED BY THE ARCHITECT.
17. ALL ELECTRICAL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE LATEST EDITION OF THE N.E.C., AS WELL AS STATE, AND LOCAL CODES AND REQUIREMENTS.
18. ALL CONDUIT SHALL BE CONCEALED, UNLESS OTHERWISE NOTED.
19. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE AVAILABLE SHORT CIRCUIT CURRENT AT THE MAIN SWITCHBOARD, INCOMING TERMINALS WITH THE UTILITY COMPANY, AND TO VERIFY THAT ALL POWER AND SIGNAL SERVICE PROVISIONS, INCLUDING CONCRETE EQUIPMENT PADS, CONDUITS, PULLBOXES AND CLEARANCES, MEET THE UTILITY COMPANY'S REQUIREMENTS, PRIOR TO INSTALLATION.
20. EQUIPMENT OVERLOADS AND FUSES SHALL BE PROVIDED AND INSTALLED AS PER NAME PLATE ON THE EQUIPMENT ACTUALLY PROVIDED.

SHEET INDEX
E-001 GENERAL NOTES, LIST OF DRAWINGS
E-002 ELECTRICAL SYMBOLS LIST
E-003 LUMINAIRE SCHEDULE
E-101 FLOOR PLANS - ELECTRICAL DEMOLITION
E-201 FLOOR PLANS - LIGHTING
E-301 FLOOR PLANS - POWER & SIGNAL
E-302 FLOOR PLANS - CBO & FACILITIES MECH. POWER
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FE-001 FIRE ALARM EQPT. LIST, GEN. NOTES & DETAILS
FE-101 FIRST FLOOR PLAN - OVERALL FIRE ALARM
FE-301 FLOOR PLANS - FIRE ALARM
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San Rafael City Schools

SRSAN RAFAEL CITY SCHOOLS

SRCS Terra Linda HS Wellness & Restroom Modernization

320 Nova Albion Way, San Rafael, CA 94903

Date Issued For 02/16/2024 DSA Resubmittal

Professional Engineer

Paul J. O'Mahony

State of California

License No. E14738

Exp. 2025

O'MAHONY & MYER

ELECTRICAL ENGINEERING & LIGHTING DESIGN

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SAN RAFAEL, CALIFORNIA 94903



















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





























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





























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














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WWW.HED.DESIGN

ELECTRICAL SYMBOLS LIST	
	SECURITY SYSTEM DOOR CONTACT. PROVIDE 1/2" C.O. ROUGH-IN FROM NEAREST ACCESSIBLE CEILING AREA, TO DOOR FRAMING. PROVIDE 1" C.O. WITHIN ALL NON-ACCESSIBLE AREAS FOR WIRING AND DEVICE BY OTHERS.
	SECURITY SYSTEM CEILING MOUNT 360° MOTION DETECTOR. PROVIDE 1" C.O. WITHIN ALL NON-ACCESSIBLE AREAS FOR WIRING, DEVICE AND MOUNT, BY OTHERS.
	SECURITY SYSTEM CEILING MOUNT GLASS BREAK DETECTOR. PROVIDE 1" C.O. WITHIN ALL NON-ACCESSIBLE AREAS FOR WIRING, DEVICE AND MOUNT, BY OTHERS.
	WALL MOUNTED SECURITY SYSTEM KEYPAD, UP 48" TO TOP OF BOX. PROVIDE 3/4" STUB-UP FROM WALL MOUNT LOCATION TO ACCESSIBLE CEILING SPACES, AND PROVIDE 1" C.O. WITHIN ALL NON-ACCESSIBLE AREAS FOR WIRING AND DEVICE BY OTHERS.
	PROJECT NUMBERED NOTE, OR SHEET NUMBERED, AS NOTED ON PLAN.
	COPPER GROUND ROD, 10' L x 3/4" Ø, SEE SPECS
	CIRCUIT BREAKER, INDICATES 100 AMP, 3 POLE
	UTILITY METER
	CONDUCTOR LANDING LUGS
	CONDUIT TURN DOWN
	CONDUIT TURN UP
	CONTINUATION
	CONDUIT STUB
	ELECTRICAL FEEDER TAG, PER COPPER FEEDER SCHEDULE
	MECHANICAL EQUIPMENT DESIGNATION, REFER TO MECHANICAL PLANS.
	ELECTRICAL EQUIPMENT TAG: EQUIPMENT PREFIX "PNL", "DPT", "SWBD", "XFMR", "FA", "IDF" EQUIPMENT NAME
	DETAIL OR SHEET REFERENCE CALLOUT. INDICATES DETAIL 1, SHEET E-0.1. WHEN ADJACENT EQUIPMENT, APPLIES TO EQUIPMENT IDENTIFIED ONLY.
	DETAIL OR SHEET REFERENCE CALLOUT. INDICATES DETAIL 1, SHEET E-0.1. WHEN ADJACENT EQUIPMENT, APPLIES TO TYPICAL EQUIPMENT SERIES.
BRANCH CIRCUIT NOMENCLATURE	
EXAMPLES:	
LA1-3	1-POLE BRANCH CIRCUIT TO CB
LA1-1,3,5	1-POLE BRANCH CIRCUIT FOR MULTI CIRCUIT HOMERUNS TO SEPARATE CB'S
LA1-[1,3]	2-POLE BRANCH CIRCUIT TO COMMON CB
LA1-[1,3,5]	3-POLE BRANCH CIRCUIT TO COMMON CB

ELECTRICAL SYMBOLS LIST	
	MAIN SWITCHBOARD, DISTRIBUTION PANEL, OR MOTOR CONTROL CENTER
	SURFACE MOUNTED PANELBOARD OR EQUIPMENT AS NOTED ON DRAWINGS. 6' - 6' TO TOP
	FLUSH MOUNTED PANELBOARD OR EQUIPMENT AS NOTED ON DRAWINGS. 6' - 6' TO TOP.
	PAD MOUNTED UTILITY TRANSFORMER, PER UTILITY CO. REQUIREMENTS.
	CONDUIT AND WIRE CONCEALED IN CEILING OR WALL UNDER SLAB
	CONDUIT AND WIRE UNDERGROUND, OR CONCEALED UNDER SLAB
	CONDUIT AND WIRE RUN EXPOSED, PAINTED TO MATCH ALL ADJACENT FINISHES WITHIN FINISHED SPACES
	HOMERUN TO PANELBOARD OR TERMINAL BOARD, AS NOTED ON PLANS
	CROSSMARKS INDICATE QUANTITY OF #12 CONDUCTORS PLUS PARITY SIZED GROUND CONDUCTOR, NO HASHMARKS INDICATES (2) #12 PLUS PARITY SIZED GROUND CONDUCTOR.
	(#10) WIRE SIZE 10 AWG FOR ALL CONDUCTORS, INCLUDING GROUND WIRE THROUGHOUT THE COMPLETE CIRCUIT
	20A 3PG 125V DUPLEX RECEPTACLE, UP 18" U.O.N. - "WP" INDICATES WEATHERPROOF.
	20A 3PG 125V DOUBLE DUPLEX RECEPTACLE, UP 18" U.O.N.
	20A 3PG 125V DUPLEX RECEPTACLE, MOUNTED ABOVE COUNTER.
	20A 3PG 125V DUPLEX RECEPTACLE, FLUSH CEILING MOUNT.
	SURFACE MOUNTED WIREMOLD RACEWAY WITH RECEPTACLES AS INDICATED ON PLANS
	SURFACE MOUNTED WIREMOLD RACEWAY RISER
	TERMINAL MOUNTING BACKBOARD, 3/4" PLYWOOD, DIMENSIONS AS NOTED ON PLANS, PAINT TO MATCH ADJACENT WALL SURFACE, MAINTAINING VISIBILITY OF UL FIRE RATING LABEL
	DATA OUTLET, WALL MOUNTED, UP 18" U.O.N.
	DATA OUTLET, WALL MOUNTED, MOUNTED ABOVE COUNTER
	DATA OUTLET, FLUSH CEILING MOUNT. "AP" - ACCESS POINT "P" - PROJECTOR
	FLUSH WALL MOUNTED INDOOR PUBLIC ADDRESS SPEAKER & SIGNAL SYSTEM CLOCK, UP 96" U.O.N.
	FLUSH WALL MOUNTED INDOOR PUBLIC ADDRESS SPEAKER, UP 96" U.O.N.
	FLUSH WALL MOUNTED OUTDOOR PUBLIC ADDRESS SPEAKER - "WP" INDICATES WEATHERPROOF
	FLUSH WALL MOUNTED SIGNAL SYSTEM CLOCK, UP +96" U.O.N.
	FLOOR BOX ASSEMBLY, IN-SLAB, DOUBLE DUPLEX RECEPTACLE AND DATA OUTLET.
	FIRE RATED POKE THRU ASSEMBLY FLOOR BOX
	LINE VOLTAGE MOTOR RATED SWITCH INSTALLED AT EQUIPMENT SHOWN
	MOTOR DISCONNECT SWITCH, HORSEPOWER RATED, FUSED
	MOTOR DISCONNECT SWITCH, HORSEPOWER RATED, NON FUSED
	VARIABLE FREQUENCY DRIVE, FURNISHED BY MECHANICAL, INSTALLED AND CONNECTED COMPLETE BY ELECTRICAL.

ELECTRICAL SYMBOLS LIST	
	LINE VOLTAGE SINGLE POLE TOGGLE SWITCH, LETTER ADJACENT INDICATES RESPECTIVE ZONE CONTROLLED, UP 48" U.O.N.
	LINE VOLTAGE TWO POLE TOGGLE SWITCH, UP 48" U.O.N.
	LINE VOLTAGE THREE-WAY TOGGLE SWITCH, UP 48" U.O.N.
	LINE VOLTAGE KEY OPERATED TOGGLE SWITCH
	LINE VOLTAGE MOTOR RATED TOGGLE SWITCH INSTALLED AT EQPT SHOWN
	LINE VOLTAGE TOGGLE SWITCH WITH PILOT LIGHT, LIGHT IS ON WHEN CIRCUIT IS CLOSED, UP 48" U.O.N.
	LOW VOLTAGE MOMENTARY CONTACT SWITCH - SEE LOW VOLTAGE RELAY SCHEDULE, LOWER CASE LETTER ADJACENT INDICATES RESPECTIVE ZONE CONTROLLED, UP 48" U.O.N.
	LOW VOLTAGE KEYED MOMENTARY CONTACT SWITCH - SEE LOW VOLTAGE RELAY SCHEDULE, LOWER CASE LETTER ADJACENT INDICATES RESPECTIVE ZONE CONTROLLED, UP 48" U.O.N.
	WALL MOUNTED SWITCH TYPE INFRARED OCCUPANCY SENSOR, UP 48" U.O.N.; SINGLE OR DUAL AS NOTED BY LETTERS ADJACENT. SET TO FIXED 20 MINUTE TIME DELAY AND MAX SENSITIVITY
	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, UP 48" U.O.N.; SINGLE OR DUAL AS NOTED BY LETTERS ADJACENT. SET TO FIXED 20 MINUTE TIME DELAY AND MAX SENSITIVITY
	WALL MOUNTED DIGITAL DUAL TECHNOLOGY DIMMING OCCUPANCY SENSOR SWITCH, UP 48" U.O.N.
	WALL MOUNTED DIGITAL SWITCH, UP 48" U.O.N.; LOWER CASE LETTER ADJACENT INDICATES RESPECTIVE ZONE CONTROLLED
	WALL MOUNTED SINGLE OR MULTI-ZONE DIGITAL DIMMER SWITCH, UP 48" U.O.N.; LOWER CASE LETTERS ADJACENT INDICATE RESPECTIVE ZONES TO BE SIMULTANEOUSLY MANUALLY CONTROLLED; NUMERAL DESIGNATES NUMBER OF ZONES ASSIGNED TO THE DEVICE
	CEILING MOUNTED DUAL TECHNOLOGY DIGITAL OCCUPANCY SENSOR
	WALL MOUNTED DUAL TECHNOLOGY DIGITAL OCCUPANCY SENSOR
	LOW VOLTAGE COLD TEMPERATURE PIR OCCUPANCY SENSOR
	CEILING MOUNTED LINE VOLTAGE DUAL TECHNOLOGY OCCUPANCY SENSOR
	SINGLE OR MULTI-ZONE SWITCHING OR DIMMING OPEN LOOP DIGITAL DAYLIGHTING SENSOR; NOTATIONS ADJACENT IDENTIFY DAYLIGHT ZONES ASSIGNED TO THE DEVICE. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN
	SINGLE ZONE SWITCHING OR DIMMING CLOSED LOOP DIGITAL DAYLIGHTING SENSOR; NOTATIONS ADJACENT IDENTIFY DAYLIGHT ZONES ASSIGNED TO THE DEVICE. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN
	DAYLIGHT CONTROL PHOTOCCELL - BRACKET MOUNTED; NOTATIONS ADJACENT IDENTIFY DAYLIGHT ZONES ASSIGNED TO THE DEVICE. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN
	INDICATES DAYLIGHT ZONE CONTROLLED VIA PHOTOCCELL
	ROOM CONTROLLER
	ADJACENT NUMERAL REFERS TO THE NUMBER OF ZONES TO BE CONTROLLED. VENDOR OR CONTRACTOR TO PROVIDE QUANTITY OF ROOM CONTROLLERS REQUIRED FOR THE NUMBER OF CONTROLLED ZONES.
	PLUG LOAD ROOM CONTROLLER
	NETWORK BRIDGE
	MASTER WIRELESS BORDER ROUTER & NB - SWITCH IN NETWORK CABINET
	SECONDARY WIRELESS BORDER ROUTER
	ISOLATED RELAY INTERFACE
	EMERGENCY LIGHTING CONTROL MODULE
	OCCUPANCY SENSOR POWER PACK MOUNTED IN CONCEALED ACCESSIBLE LOCATION
CALIFORNIA GREEN BUILDING STANDARDS COMPLIANCE	
ALL EXTERIOR LUMINAIRES SPECIFIED IN THESE CONTRACT DOCUMENTS COMPLY WITH THE REQUIREMENTS OF THE CALIFORNIA ENERGY CODE AND THE CALIFORNIA GREEN BUILDING STANDARDS CODE, SECTION 45.106.8 LIGHT POLLUTION REDUCTION. EXTERIOR LUMINAIRES COMPLY WITH BACKLIGHT, UPLIGHT, AND GLARE (BUG) RATINGS AS DEFINED IN IESNA TM-15-11 AND BUG RATINGS DO NOT EXCEED THE MAXIMUM ALLOWABLE RATINGS FOR THIS PROJECT.	

ELECTRICAL SYMBOLS LIST	
ALL SWITCH AND CONTROL MOUNTING HEIGHTS OF 48" SHALL BE TO TOP OF THE DEVICE BOX. ALL RECEPTACLES WITH MOUNTING HEIGHT OF UP TO 18" SHALL BE NO LOWER THAN 15" TO BOTTOM OF THE DEVICE BOX, TYPICAL, U.O.N.	
	INDICATES LUMINAIRE TYPE, SEE LUMINAIRE SCHEDULE
	RECESSED 2'x2' 2'x4' OR 1'x4' LUMINAIRE, FULLY LENSED
	INDICATES EMERGENCY LUMINAIRE. SEE ABBREVIATIONS FOR TYPE OF EMERGENCY SOURCE
	SUSPENDED LINEAR LUMINAIRE
	INDICATES AIRCRAFT CABLE SUPPORT POINT (VERIFY WITH MFRG)
	INDICATES COMBINATION AIRCRAFT CABLE/ELECTRICAL FEED POINT (VERIFY WITH MFRG)
	SURFACE CEILING, WALL OR COVE MOUNTED LUMINAIRE
	UNDER CABINET LUMINAIRE
	SURFACE CEILING MOUNTED LUMINAIRE
	PENDANT MOUNTED LUMINAIRE
	WALL MOUNTED LUMINAIRE
	RECESSED DOWNLIGHT LUMINAIRE
	RECESSED WALLWASH LUMINAIRE
	POLE ARM-MOUNTED AREA LUMINAIRE; ARROW INDICATES DIRECTION OF LIGHT DISTRIBUTION WHEN NOT PARALLEL TO ARM ORIENTATION
	POST-TOP PEDESTRIAN-SCALE AREA LUMINAIRE; ARROW INDICATES DIRECTION OF LIGHT DISTRIBUTION
	WALL MOUNTED EXIT SIGN, ARROWS AS NOTED ON PLANS. SHADED AREA INDICATES NUMBER OF FACES


San Rafael City Schools




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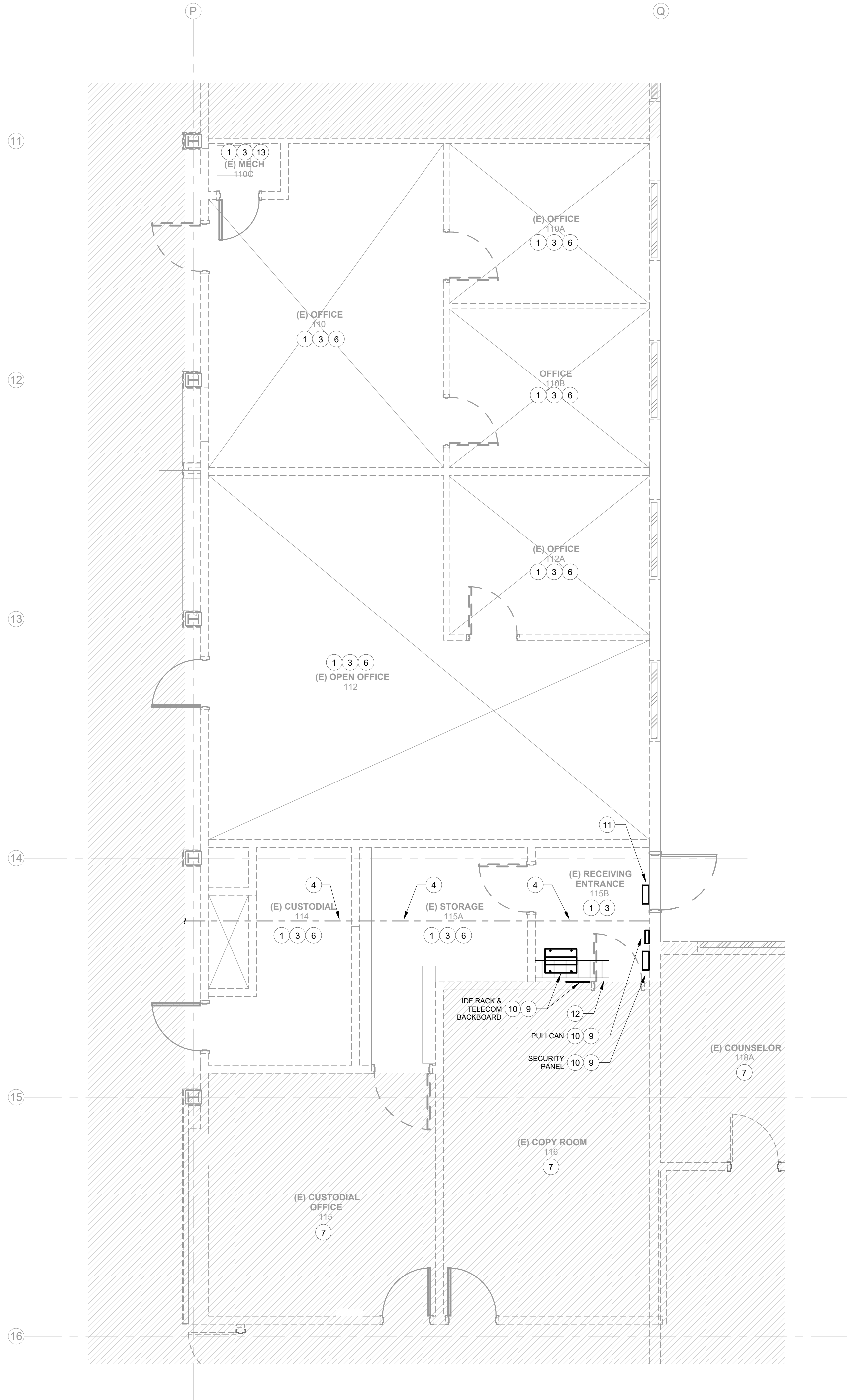
OMAHONY & MYER
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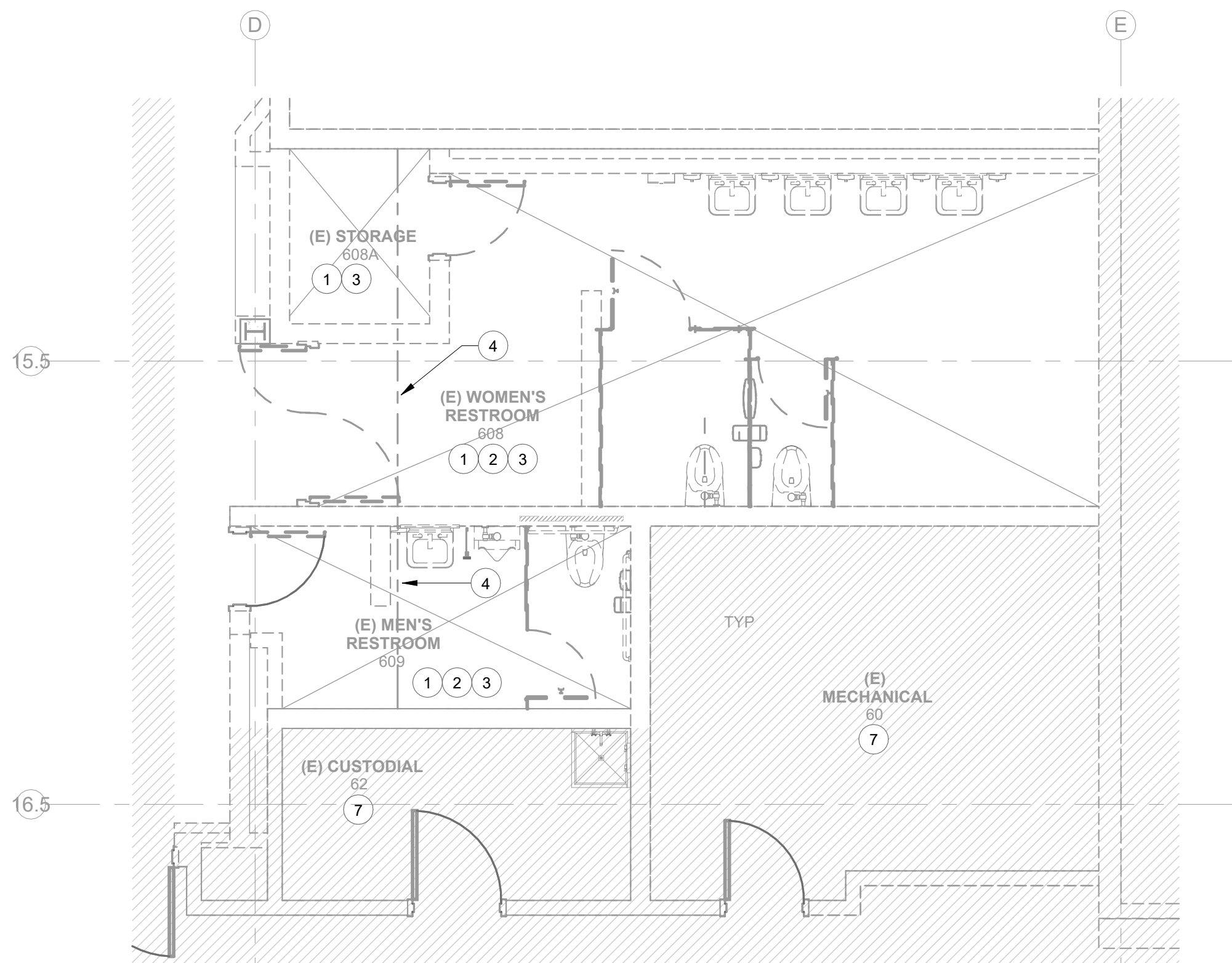
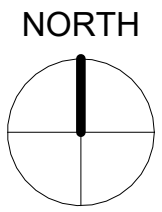
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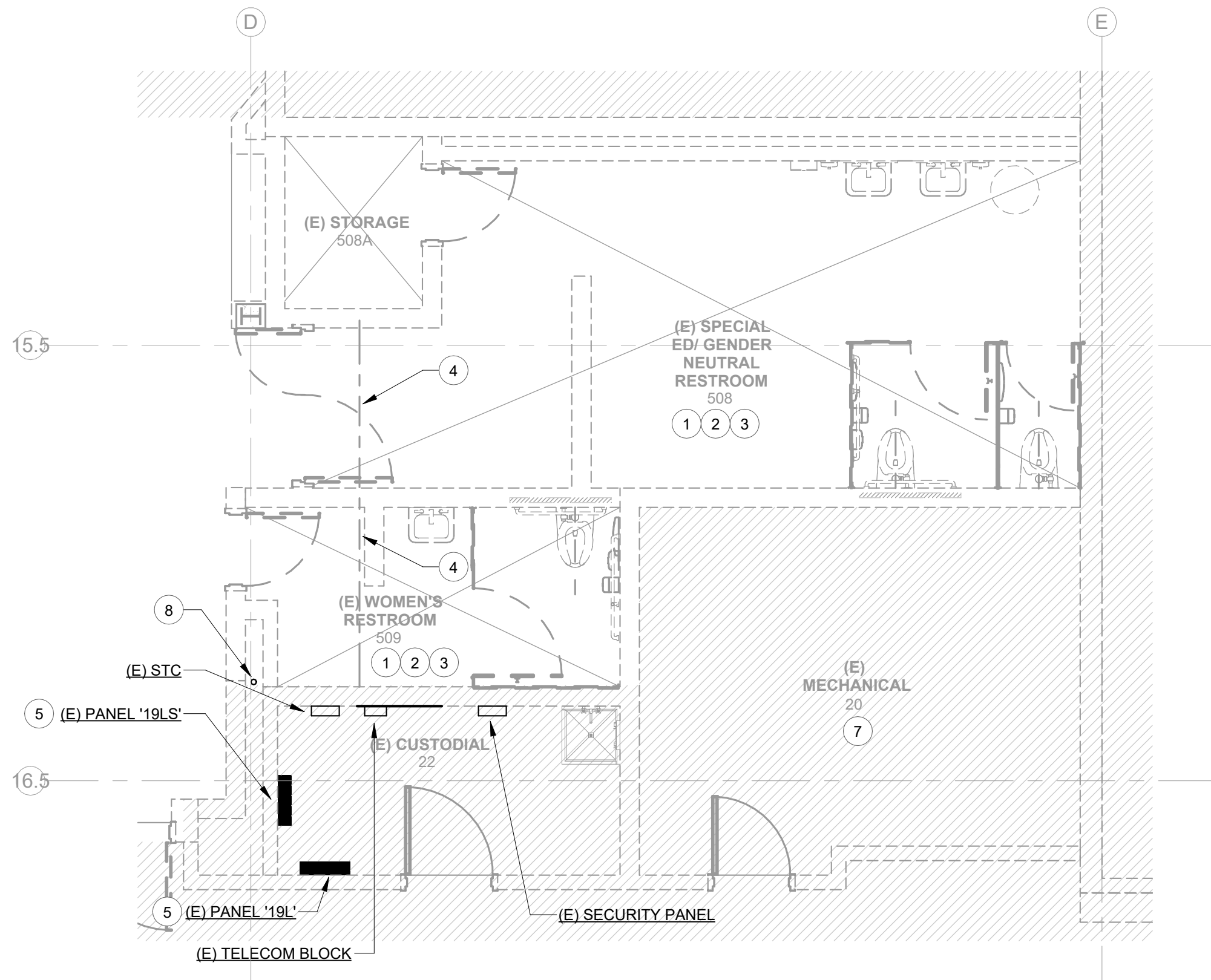
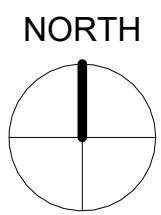
LUMINAIRE SCHEDULE								
TYPE	MOUNTING	DESCRIPTION	MANUFACTURER CATALOG NUMBER	LIGHT SOURCE	POWER SUPPLY	VOLT	INPUT WATTS	REMARKS
AA2	PENDANT	PENDANT MOUNTED DIRECT/INDIRECT LINEAR LUMINAIRE WITH EXTRUDED ALUMINUM CONSTRUCTION HOUSING, WIDESPREAD UPLIGHT OPTIC, FLUSH DOWNLIGHT DIFFUSER, AND CAST ALUMINUM ENDCAPS. 50" FULLY ADJUSTABLE AIRCRAFT CABLE SUSPENSION KIT. 2.5" X 2.5" X 8' LENGTH COMPRISED OF (1) 8' MODULE. WHITE, BLACK, OR SATIN ALUMINUM POLYESTER. PAINTED FINISH TO BE DETERMINED BY THE ARCHITECT. WEIGHT: 2.3 LBS/FT.	FINELITE HP-X-P-ID-8'-S-B-835-F-F- 120/277-SC-FG-1%-FA50- CEILING-FE-FINISH	3500K LED 80 CRI 3790 LM/4'	0-10V DIMMING (1%-100%)	120/277V	62 W	
AB1	PENDANT	DECORATIVE PENDANT WITH ASA LOUVER AND DIFFUSED LIGHT OUTPUT. 21" DIAMETER X 2.25' H. WHITE FINISH. WEIGHT: 16 LBS.	ARTEMIDE CALIPSO PENDANT 0213018A	3000K LED >90 CRI 2884 LM	0-10V DIMMING	120/277V	58 W	
AC1	SURFACE WALL	WALL MOUNTED DIRECT/INDIRECT LUMINAIRE WITH EXTRUDED ALUMINUM CONSTRUCTION HOUSING, HIGH TRANSMITTANCE CLEAR ACRYLIC LENSES, SAIL SHAPED ENDCAP. 55% ASYMMETRIC UPLIGHT AND 45% LAMBERTIAN DOWNLIGHT DISTRIBUTION. 3.19" H X 1.9" D X 40' L. BLACK, WHITE, METALLIC SILVER POWDER COATED PAINTED FINISH TO BE DETERMINED BY THE ARCHITECT. WEIGHT: 1 LB/FT.	FLUXWERX LNW-A-0-D-W1-FINISH-Y6-8-35- B-E1-M-5L8-E-A	3500K LED 80 CRI 1337 LM/4'	0-10V DIMMING (1%-100%)	120/277V	117 W	
AD1	RECESSED	RECESSED DOWNLIGHT WITH FORMED STEEL CONSTRUCTION HOUSING. 4.5" DIAMETER BEVELED AND REGRESSED TRIM WITH MATCHING FLANGE. 90 DEGREE BEAM SPREAD WITH SOLITE SPREAD LENS. 2.7/8" HIGH HOUSING WITH 1 1/8" MAX. CEILING THICKNESS. PROVIDE 27" C-CHANNEL BAR HANGERS. WEIGHT: 8 LBS.	USAI LIGHTING B4RD-F-09C3-35KS-90-S-BEVEL- TRIM-FLANGE TRIM-FT-UNV- D6E-CB27	3500K LED 80 CRI 672 LM	0-10V DIMMING (100%-1%)	UNV	9 W	
AD2	RECESSED	SIMILAR TO TYPE AD1 EXCEPT WITH WALLWASH DISTRIBUTION. WEIGHT: 8 LBS.	USAI LIGHTING B4RW-F-09C3-35KS-W2-D2- BEVEL TRIM-FLANGE TRIM-FT- UNV-D6E-CB27	3500K LED 80 CRI 757 LM	0-10V DIMMING (100%-1%)	UNV	9 W	
AE1	RECESSED	RECESSED PERIMETER LINEAR DOWNLIGHT WITH 3" APERTURE, EXTRUDED ALUMINUM TRIM AND SIDE WALL. 20GA. STEEL TOP HOUSING, DIE CAST END CAPS, 1" REGRESSED SEAMLESS POLYMER DIFFUSER. 8'-11" LENGTH. FIELD VERIFY PRIOR TO RELEASE. TEXTURED OR GLOSS WHITE TRIM FINISH TO BE DETERMINED BY THE ARCHITECT. PERIMETER ROOM FILL OPTICS. WEIGHT: 4 LBS/FT.	PRUDENTIAL LIGHTING BPR03-PER-REG1-LED35-LO-R8- 11"-FINISH-PFL-WTW-SC-UNV- CEILING-ND	3500K LED 80 CRI 1900 LM/4'	NON-DIMMING	UNV	34 W	
AE2E	RECESSED	SIMILAR TO TYPE AE1 EXCEPT 23'-5" LENGTH AND WITH (2) INTEGRAL EMERGENCY BATTERY PACKS; ONE AT EACH END OF THE LUMINAIRE.	PRUDENTIAL LIGHTING BPR03-PER-REG1-LED35-LO- R23'-5"-FINISH-PFL-WTW-SC- UNV-CEILING-ND-(2)EMHE	3500K LED 80 CRI 1900 LM/4'	NON-DIMMING + EMERGENCY BATTERY PACK	UNV	89 W	
AF1	SURFACE	11" DIAMETER CEILING MOUNTED DOWNLIGHT. SOLID ALUMINUM RING TRIM WITH LIGHT GUIDE AND WHITE DIFFUSING LENS. <1" DEEP TRIM. WEIGHT: <15 LBS.	JUNO LIGHTING JSF-11IN-35K-90CRI-MVOLT-ZT- WH	3500K LED 90 CRI 1300 LM	NON-DIMMING	120/277V	15 W	
AG1	RECESSED	RECESSED 1X4 LED PANEL WITH EXTRUDED ALUMINUM FRAME AND PMMA LIGHT GUIDE PLATE AND LENS. SATIN WHITE LENS WITH FULLY LUMINOUS APPEARANCE. INTEGRAL EARTHQUAKE CLIPS. WEIGHT: 14 LBS.	EPANL-1X4-1500LMHE-80CRI- 35K-ZT-MVOLT	3500K LED 80 CRI 1500 LM	NON-DIMMING	UNV	12 W	
AG2	RECESSED	SIMILAR TO TYPE AG1 EXCEPT 2X4 CONFIGURATION. WEIGHT: 15 LBS.	EPANL-2X4-3000LMHE-80CRI- 35K-ZT-MVOLT	3500K LED 80 CRI 3000 LM	NON-DIMMING	UNV	23 W	
AH1	SURFACE	SURFACE MOUNTED LENSED STRIPLIGHT WITH FORMED STEEL CONSTRUCTION HOUSING, FLAT END CAPS, ROUND SATIN ACRYLIC DIFFUSER. 4" H X 3" W X 4' L. WHITE POWDER COATED PAINT. PROVIDE 11GA. WHITE POWDER COATED WIRE GUARD. WEIGHT: <15 LBS.	WILLIAMS 75R-4'-L30-8-35-WG-75	3500K LED 80 CRI 3000 LM	NON-DIMMING	UNV	20 W	
AH2	SURFACE WALL	SIMILAR TO TYPE AH1 EXCEPT 2' LENGTH.	WILLIAMS 75R-2'-L15-8-35-WG-75	3500K LED 80 CRI 1500 LM	NON-DIMMING	UNV	11 W	
AH3E	SURFACE WALL	SIMILAR TO TYPE AH1 EXCEPT 8' LENGTH AND WITH INTEGRAL EMERGENCY BATTERY PACK.	WILLIAMS 75R-8'-L60-8-35-WG-75- EM/10WLP	3500K LED 80 CRI 6000 LM	NON-DIMMING + EMERGENCY BATTERY PACK	UNV	34 W	
NOTE: ANCHORAGE DETAILS FOR NON-STRUCTURAL COMPONENTS WEIGHING <20LBS ARE NOT REQUIRED PER ASCE 7, CHAPTER 13. END OF LUMINAIRE SCHEDULE								



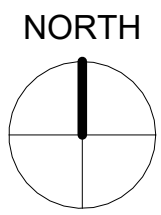
1 FIRST FLOOR DEMO PLAN - WELLNESS
1/4" = 1'-0"



3 SECOND FLOOR DEMO PLAN - RESTROOMS
1/4" = 1'-0"



2 FIRST FLOOR DEMO PLAN - RESTROOMS
1/4" = 1'-0"



SHEET NUMBERED NOTES

- 1 DISCONNECT AND REMOVE ALL EXISTING LUMINAIRES AND ASSOCIATED CONTROLS IN THIS ROOM. INCLUDE ALL RELATED LUMINAIRE CONTROLS CONDUIT, WIRING AND BACK BOXES. EXISTING LUMINAIRE POWER CIRCUITRY IS TO REMAIN TO BE REUSED. REMOVE EXISTING FLEX CONDUIT EXTENSIONS, WHERE PRESENT, BACK TO NEAREST BOX TO REMAIN.
- 2 DISCONNECT AND REMOVE ALL EXISTING RECEPTACLES IN RESTROOM. INCLUDE ALL RELATED CONDUIT, WIRING AND BACK BOXES BACK TO NEAREST JUNCTION TO REMAIN, U.O.N.
- 3 DISCONNECT AND REMOVE ALL EXISTING FIRE ALARM DEVICES AND EQUIPMENT IN THIS ROOM. INCLUDE ALL RELATED CONDUIT, WIRING AND BACK BOXES BACK TO NEAREST JUNCTION TO REMAIN, U.O.N.
- 4 EXISTING EXPOSED CONDUIT IN THIS LOCATION TO REMAIN. PRESERVE AND PROTECT.
- 5 EXISTING PANEL TO BE RELOCATED. DISCONNECT EXISTING FEEDER WIRES AND ANY REMAINING EXISTING BRANCH CIRCUITRY AND PRESERVE FOR RECONNECTION TO PANEL AT NEW LOCATION. SEE 3E-301 FOR NEW LOCATION.
- 6 DISCONNECT AND REMOVE ALL EXISTING RECEPTACLES, TELECOM OUTLETS, CLOCKS, SPEAKERS AND BOXES IN THIS ROOM. INCLUDE ALL RELATED CONDUIT, WIRING AND BACK BOXES BACK TO NEAREST JUNCTION TO REMAIN, U.O.N.
- 7 NO ELECTRICAL SCOPE IN THIS ROOM.
- 8 EXISTING FIRE ALARM SYSTEM RISER TO REMAIN, PROTECT IN PLACE. SEE 3E-301.
- 9 EXISTING EQUIPMENT TO BE RELOCATED. SEE E-301 FOR NEW LOCATION.
- 10 IDENTIFY AND MARK TERMINATION OF ALL WIRING ASSOCIATED WITH EXISTING EQUIPMENT TO BE REMOVED. PULL WIRING BACK TO SOURCE AND PRESERVE FOR REROUTING FROM NEW LOCATION OF EQUIPMENT. EXISTING WIREMOLD RACEWAY TO BE REMOVED AND DISCARDED. SEE E-301.
- 11 EXISTING PULLCAN ABOVE DOOR TO REMAIN.
- 12 EXISTING CABLE TRAY TO BE RELOCATED. SEE E-301 FOR NEW LOCATION.
- 13 EXISTING MECHANICAL EQUIPMENT IN THIS ROOM TO REMAIN. PROTECT AND PRESERVE ALL ASSOCIATED ELECTRICAL EQUIPMENT AND DEVICES SUPPORTING MECHANICAL EQUIPMENT IN THE ROOM.

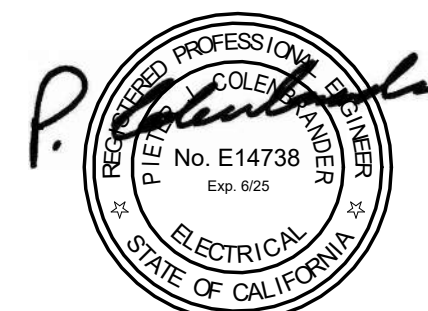
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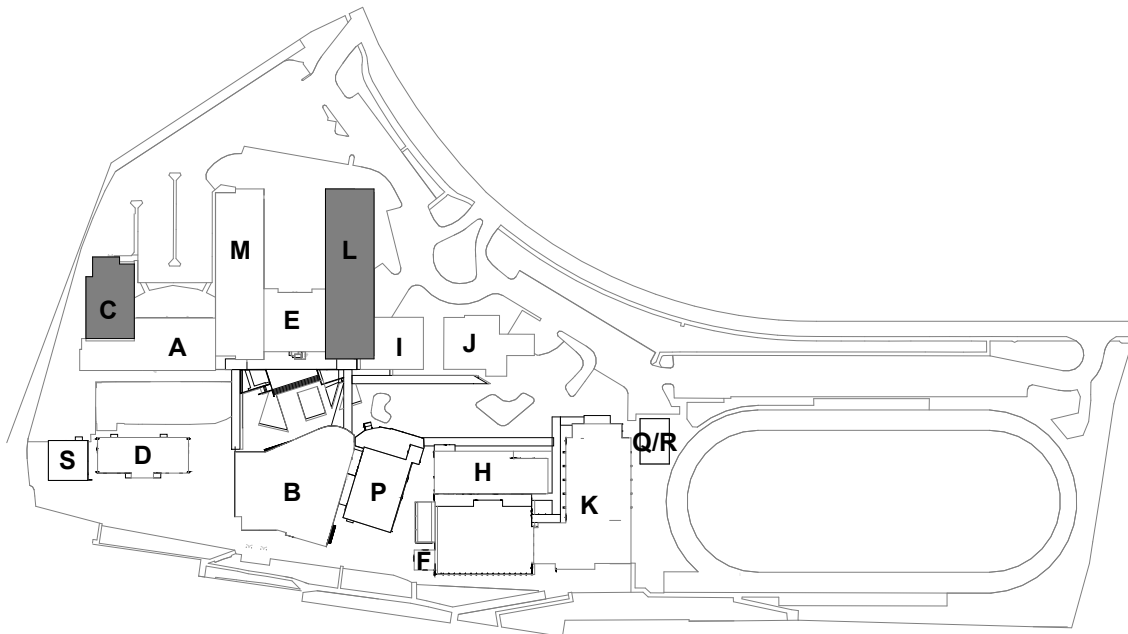


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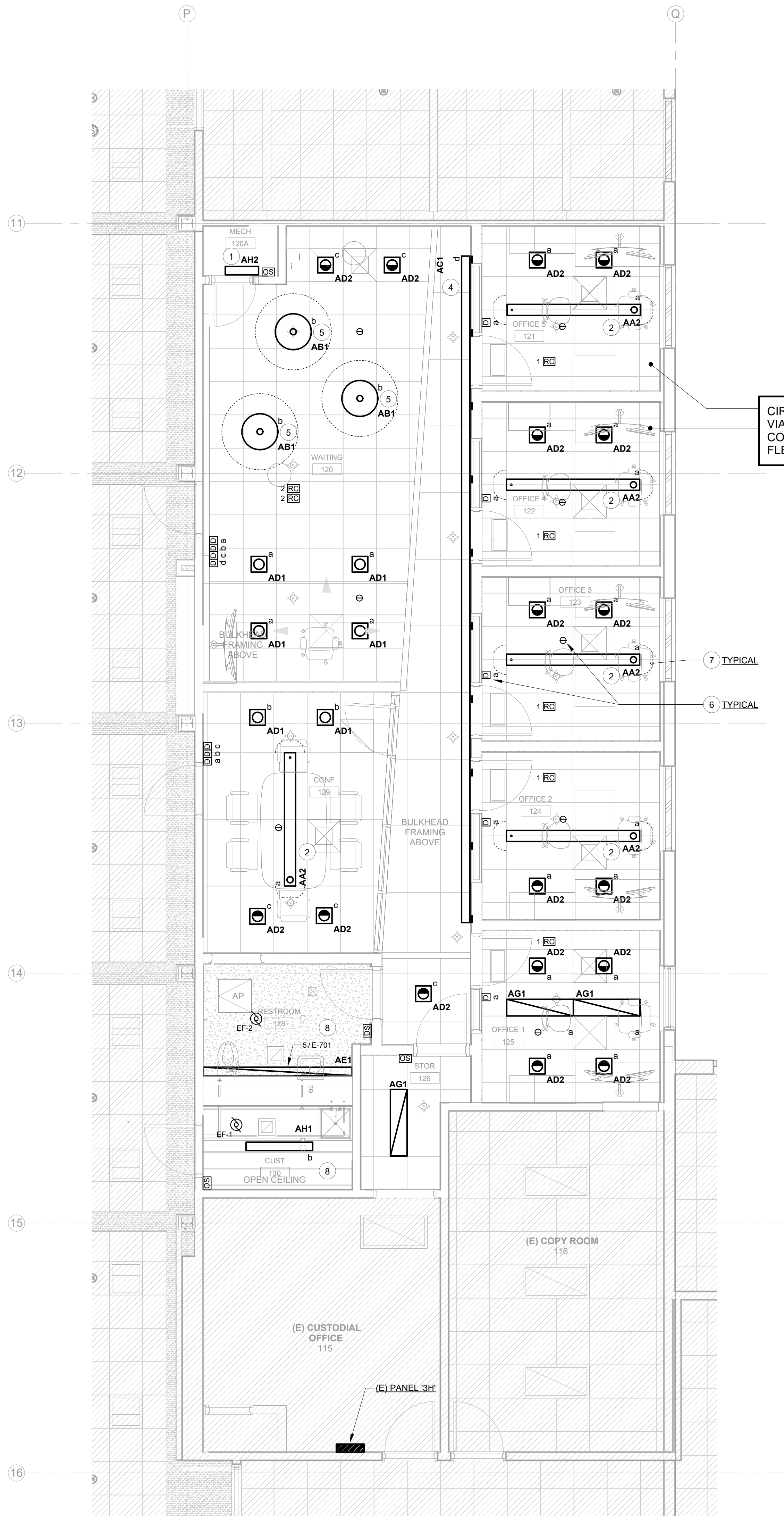
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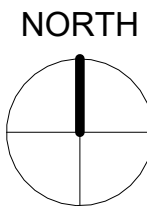
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FLOOR PLANS -
ELECTRICAL
DEMOLITION

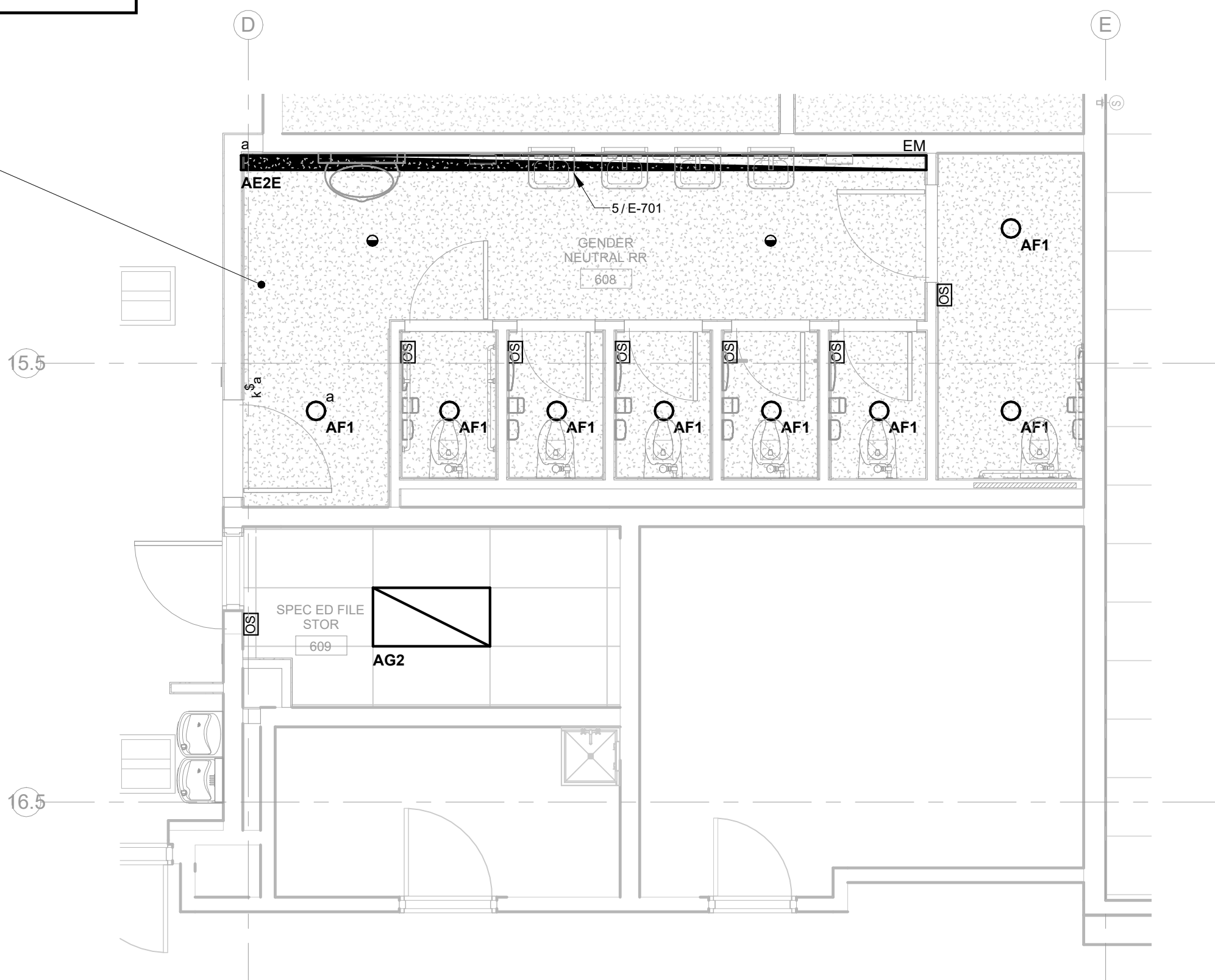
E-101



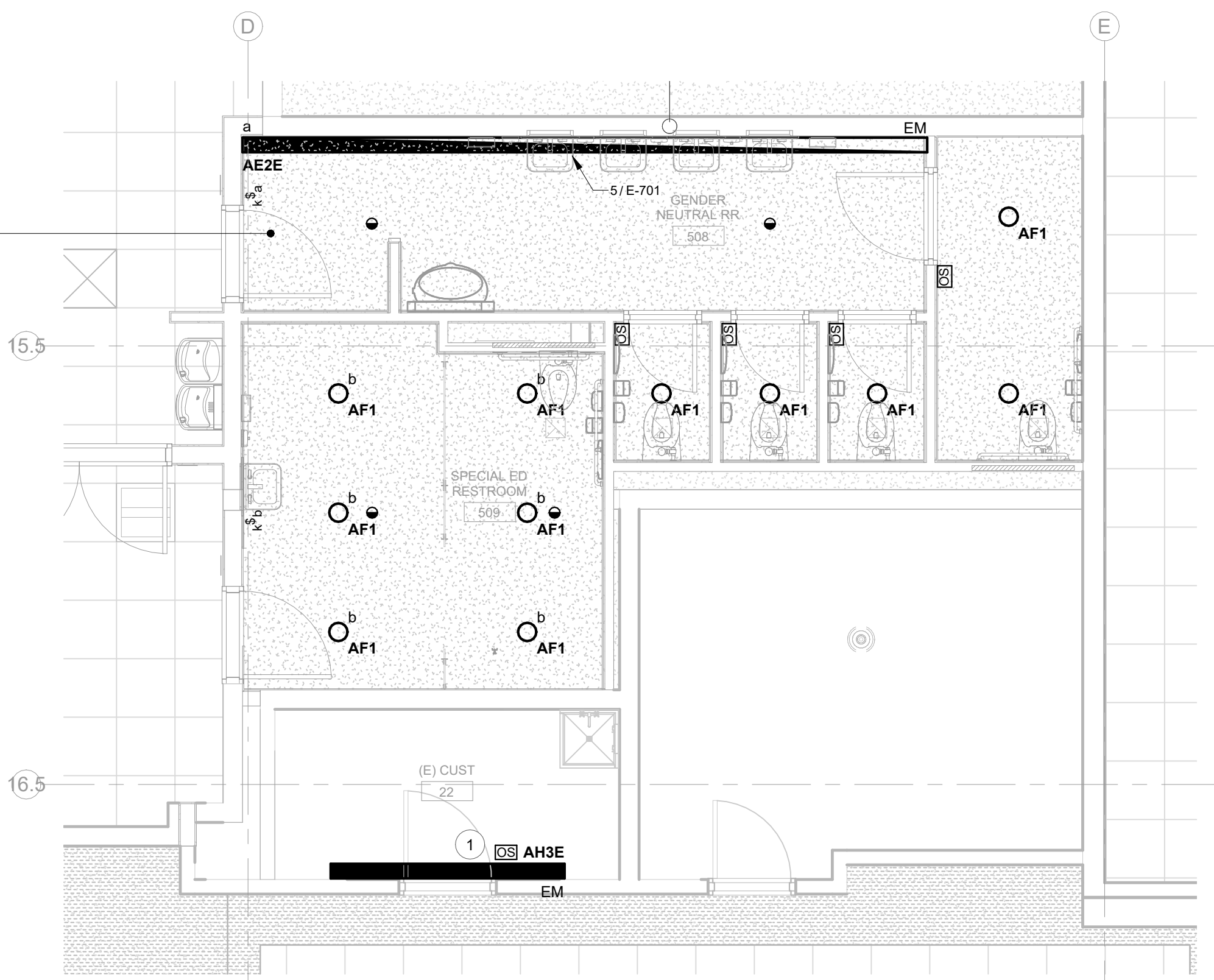
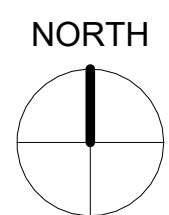
1 FIRST FLOOR PLAN - WELLNESS LIGHTING
1/4" = 1'-0"



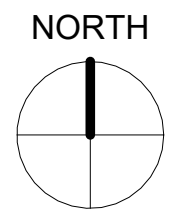
CIRCUIT ALL ROOMS TO EXISTING CIRCUITS VIA NEW LIGHTING CONTROLS AND CONNECT COMPLETE, TYPICAL, U.O.N. PROVIDE NEW FLEX CONDUIT EXTENSIONS, AS NEEDED.



3 SECOND FLOOR PLAN - RESTROOM LIGHTING
1/4" = 1'-0"



2 FIRST FLOOR PLAN - RESTROOM LIGHTING
1/4" = 1'-0"



SHEET NUMBERED NOTES

- 1 WALL MOUNTED ABOVE DOOR HEADER. SEE DETAIL 3/E-701.
- 2 PENDANT MOUNTED AT 8'-6" A.F.F. TO THE BOTTOM OF THE LUMINAIRE. SEE DETAIL 3/E-701.
- 3 PENDANT MOUNTED AT 8'-6" A.F.F. TO THE BOTTOM OF THE LUMINAIRE. SEE DETAIL 3/E-701.
- 4 WALL MOUNTED AT 8'-0" A.F.F. TO THE BOTTOM OF THE LUMINAIRE. SEE DETAIL 3/E-701.
- 5 PENDANT MOUNTED AT 8'-6" A.F.F. TO THE BOTTOM OF THE LUMINAIRE. SEE DETAIL 3/E-701.
- 6 PROVIDE AND INSTALL DIMMER SWITCH(ES), OCCUPANCY SENSOR(S), AND ROOM CONTROLLERS. WHERE SHOWN. SEE DETAILS ON SHEET E-701. MOUNT ROOM AND PLUG CONTROLLERS ABOVE ACCESSIBLE CEILING WHEREVER POSSIBLE.
- 7 DASHED LINE INDICATES EXTENT OF 45-DEG. SWAY AT MOUNTING HEIGHT INDICATED.
- 8 CONNECT EXHAUST FAN AND LUMINAIRE TO CIRCUIT 3LA-27 VIA WALL MOUNTED OCCUPANCY SENSOR.

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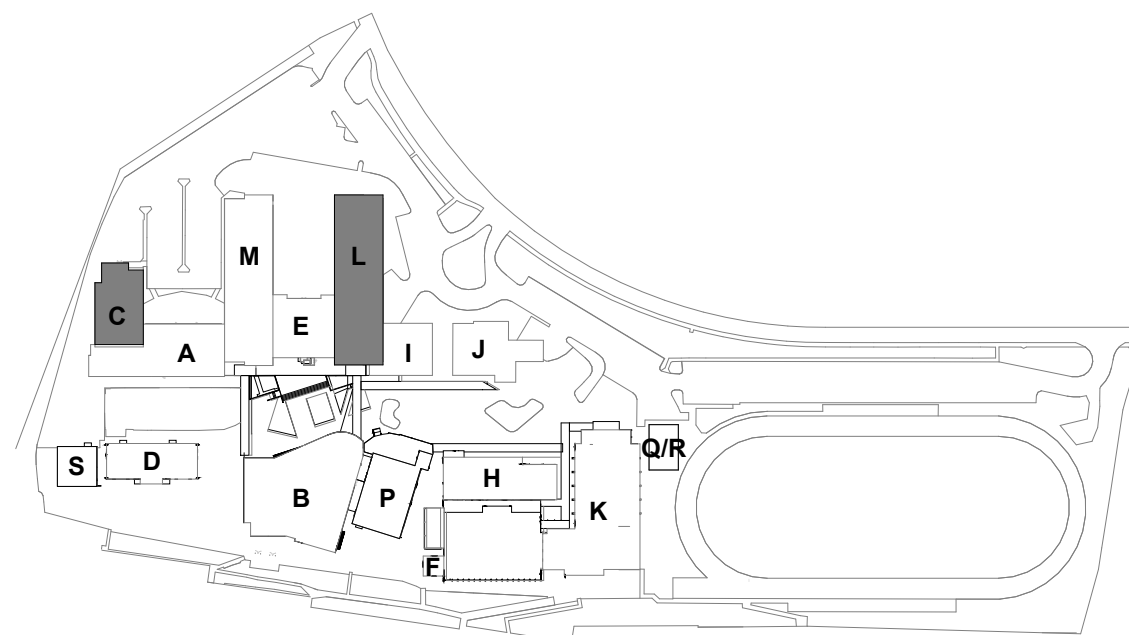
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KEY PLAN

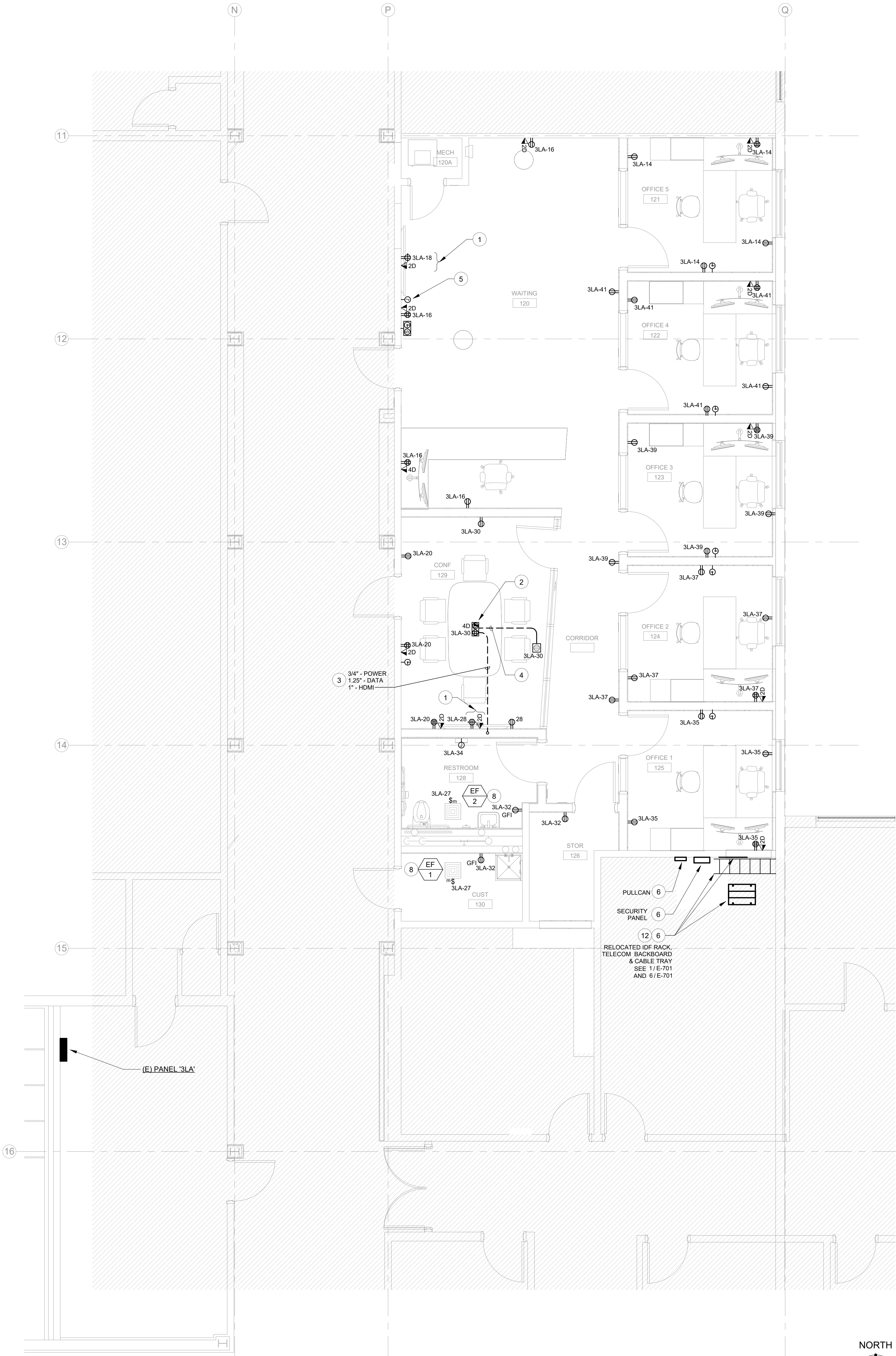


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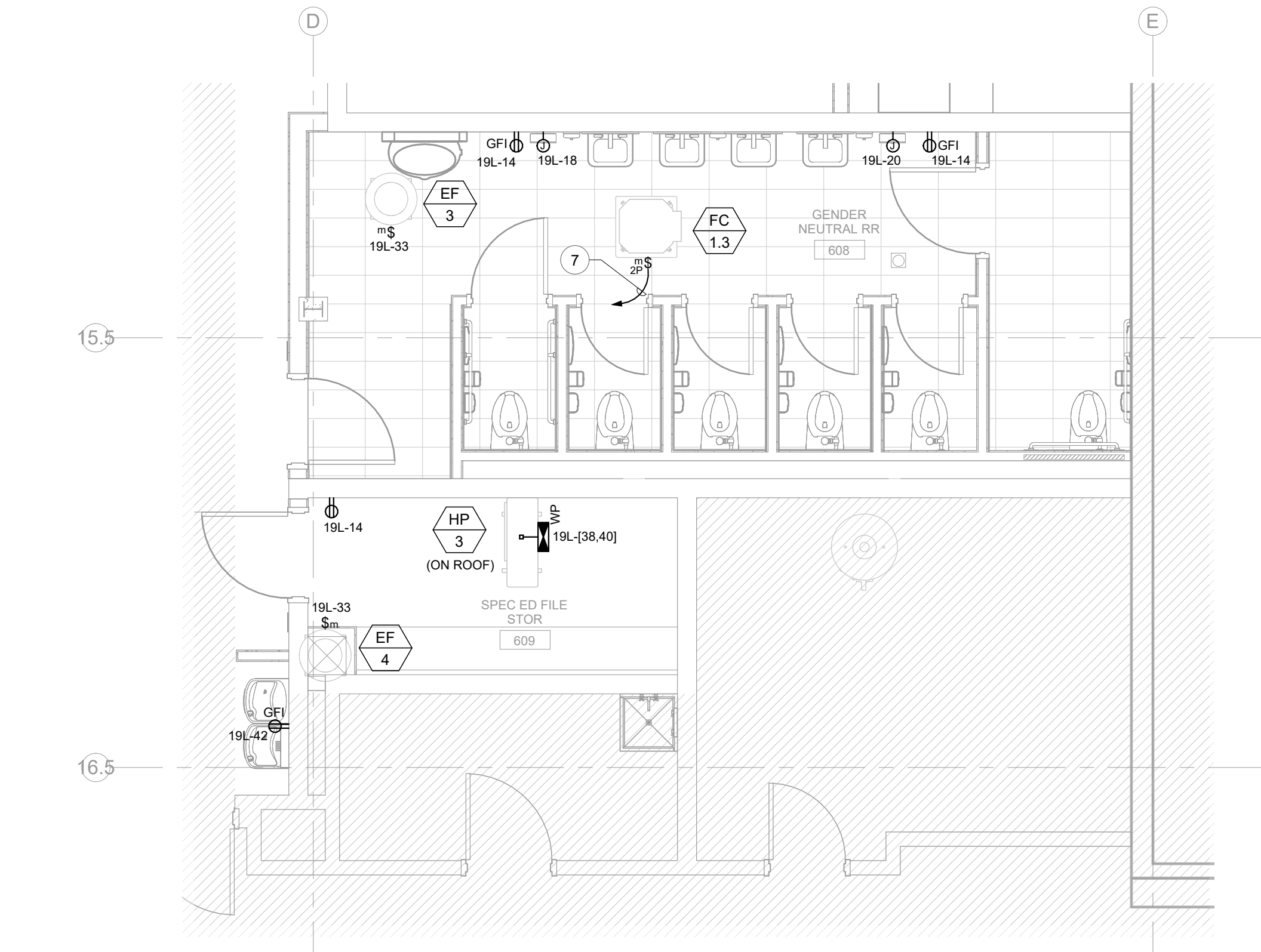
FLOOR PLANS - LIGHTING

E-201

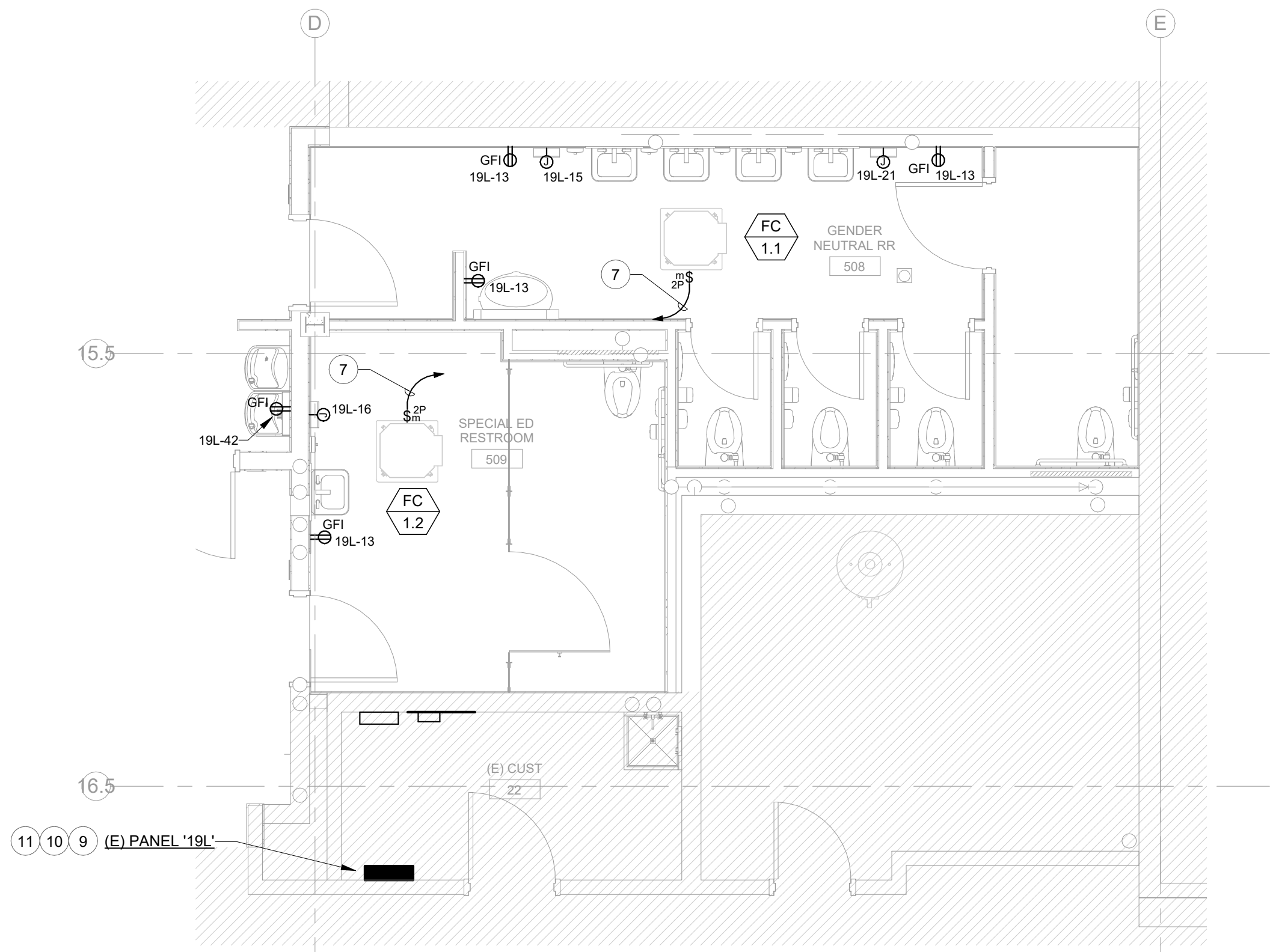
MECHANICAL EQUIPMENT FEEDER SCHEDULE - WELLNESS CTR. & RESTROOMS									
TYPE	NUMBER	VOLTAGE	POLES	MCA	KVA	MOCP	WIRE & CONDUIT	PANEL	CKT #
EF 1		120 V	1	1.33 A	0.13 KVA		(2) #12 + (1) #12G. IN 3/4" C.	3LA/27	
EF 2		120 V	1	1.33 A	0.13 KVA		(2) #12 + (1) #12G. IN 3/4" C.	3LA/27	
EF 3		120 V	1	3.75 A	0.36 KVA		(2) #12 + (1) #12G. IN 3/4" C.	19L/33	
EF 4		120 V	1	3.75 A	0.36 KVA		(2) #12 + (1) #12G. IN 3/4" C.	19L/33	
HP 3		208 V	2	42 A	6.99 KVA	50	(2) #6 + (1) #10G. IN 3/4" C.	19L/38,40	



1 FIRST FLOOR PLAN - WELLNESS POWER & SIGNAL
1/4" = 1'-0"



2 SECOND FLOOR PLAN - RESTROOMS POWER & SIGNAL
1/4" = 1'-0"

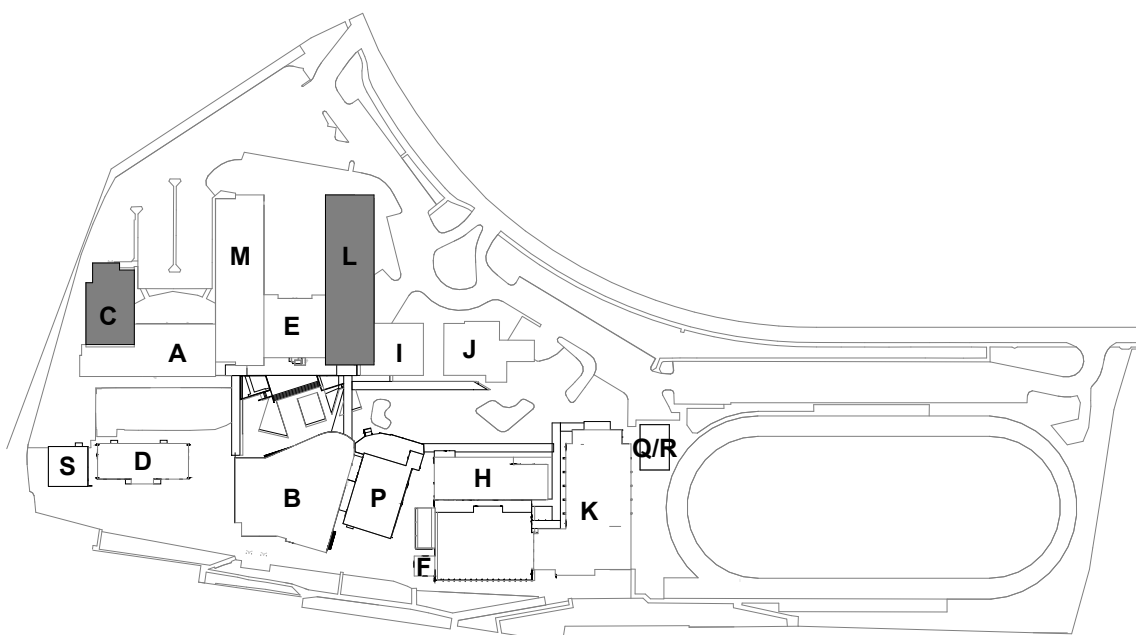


3 FIRST FLOOR PLAN - RESTROOMS POWER & SIGNAL
1/4" = 1'-0"

SHEET NUMBERED NOTES

- FLUSH WALL MOUNTED AV/POWER BOX ASSEMBLY (BEHIND FLAT PANEL DISPLAY). HUBBELL NET SELECT FPTV 4-GANG BOX #NSAV124M, OR EQUAL, WITH DUPLEX RECEPTACLE. (2) DATA JACKS AND (1) EXTRON MODEL WPD110A HDMI CONNECTOR ASSEMBLY. VERIFY MOUNTING HEIGHT AND LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. SEE ARCHITECTURAL ELEVATION DRAWINGS.
- PROVIDE (4) COMPARTMENT FLOOR BOX WITH ROUND COVER, LEGRAND MODEL RFB4E. IN ADDITION TO OUTLETS SHOWN, PROVIDE (1) EXTRON MODEL WPD110A HDMI CONNECTOR ASSEMBLY IN BOX WITH HDMI PASS-THRU CABLE FROM CONNECTOR ASSEMBLY TO HUBBELL AV BOX BEHIND ROOM'S FLAT PANEL DISPLAY. RUN HDMI CABLE IN DATA CONDUIT AND TERMINATE IN HDMI CONNECTOR ASSEMBLY IN AV BOX. SEE NOTE 1 AND DETAIL 9/A-585.
- SAW CUT EXISTING SLAB AND PROVIDE CONDUIT SHOWN. STUB DATA CONDUIT IN CEILING, HOMERUN POWER CONDUIT TO PANEL INDICATED AND CONNECT HDMI CONDUIT TO HUBBELL AV BOX BEHIND FLAT PANEL DISPLAY. SEE NOTES 1 AND 2.
- SAW CUT EXISTING SLAB AND PROVIDE 3/4" CONDUIT FOR CIRCUITRY SHOWN.
- AV WALL HDMI INPUT. PROVIDE 1-GANG BOX WITH (1) EXTRON MODEL DTP2-1201-D HDMI CONNECTOR ASSEMBLY IN BOX WITH HDMI PASS-THRU CABLE FROM CONNECTOR ASSEMBLY TO HUBBELL AV BOX BEHIND ROOM'S FLAT PANEL DISPLAY. MOUNT AT +18" AFF. SEE NOTE 1.
- REROUTE EXISTING WIRING ASSOCIATED WITH EQUIPMENT PRESERVED DURING DEMOLITION PHASE AND RETERMINATE AT LOCATION REMOVED FROM. PROVIDE NEW RACEWAY AS NEEDED. ROUTE CABLING ABOVE CEILINGS VIA J-HOOKS.
- OUTDOOR UNIT SUBFEEDS LINE VOLTAGE POWER TO INDOOR UNIT. PROVIDE, INSTALL AND CONNECT COMPLETE INTERCONNECTION BETWEEN UNITS USING (2) #12 + (1) #12G. IN 3/4" CONDUIT.
- EXHAUST FAN TO BE CONTROLLED BY ROOM LIGHTING CONTROLS. ROUTE CIRCUITRY SHOWN THROUGH ROOM WALL MOUNTED OCCUPANCY SENSOR. SEE E-201.
- REMOVE EXISTING 50A/2P CIRCUIT BREAKERS AT PANEL POSTIONS 35/37 AND 38/41 AND REPLACE WITH (2) NEW 40A/2P BREAKERS AT SAME LOCATIONS. NEW BREAKERS TO MATCH MANUFACTURER AND AIC RATING OF EXISTING PANEL BREAKERS. SEE E-601.
- REMOVE EXISTING 70A/3P CIRCUIT BREAKER AT PANEL POSITIONS 22/24/26 AND PROVIDE NEW 20A/3P CIRCUIT BREAKER AT SAME LOCATION. NEW BREAKER TO MATCH MANUFACTURER AND AIC RATING OF EXISTING PANEL BREAKERS. SEE E-601.
- PROVIDE NEW 20A/1P CIRCUIT BREAKER AT PANEL POSITION 15. NEW BREAKER TO MATCH MANUFACTURER AND AIC RATING OF EXISTING PANEL BREAKERS. SEE E-601.
- PROVIDE NEW 48-PORT PATCH PANEL AND ASSOCIATED HORIZONTAL WIRE MANAGEMENT FOR TERMINATION OF NEW WELLNESS CENTER TELECOM CABLING. INSTALL IN AVAILABLE (E) IDF RACK SPACE.

KEY PLAN



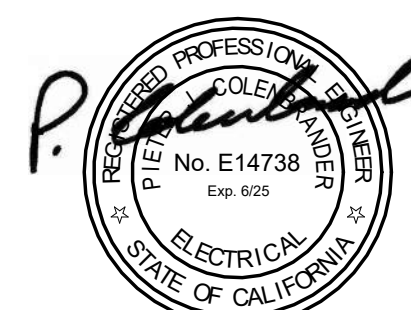
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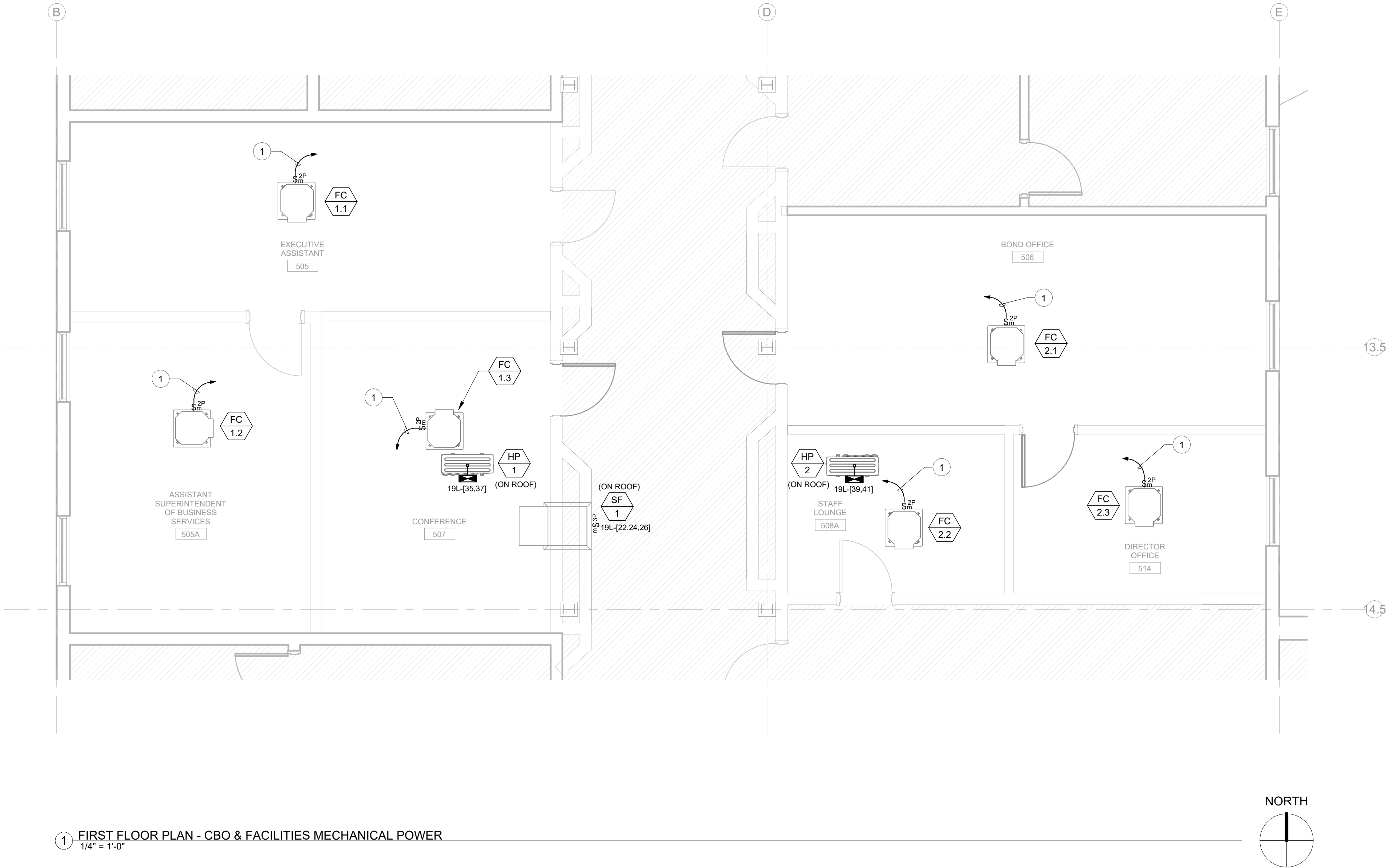
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FLOOR PLANS -
POWER &
SIGNAL

E-301

MECHANICAL EQUIPMENT FEEDER SCHEDULE - CBO & FACILITIES									
TYPE	NUMBER	VOLTAGE	POLES	MCA	KVA	MOCp	WIRE & CONDUIT	PANEL	CKT #
HP	1	208 V	2	32.5 A	5.41 KVA	40	(2) #8 + (1) #10G. IN 3/4" C.	19L 35,37	
HP	2	208 V	2	32.5 A	5.41 KVA	40	(2) #8 + (1) #10G. IN 3/4" C.	19L 39,41	
SF	1	208 V	3	5.75 A	1.66 KVA		(3) #12 + (1) #12G. IN 3/4" C.	19L 22,24,26	



SHEET NUMBERED NOTES

- 1 OUTDOOR UNIT SUBFEEDS LINE VOLTAGE POWER TO INDOOR UNIT. PROVIDE, INSTALL AND CONNECT COMPLETE INTERCONNECTION BETWEEN UNITS USING (2) #12 + (1) #12G. IN 3/4" CONDUIT.

GENERAL NOTES

1. SEE SHEET E-301 FOR (E) PANEL '19L' LOCATION.

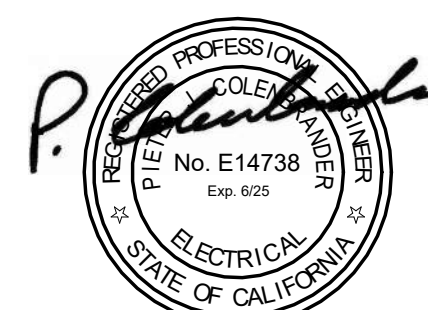
San Rafael City
Schools



SRCS Terra Linda
HS Wellness &
Restroom
Modernization

320 Nova Albion Way, San Rafael, CA
94903

Date Issued For
02/16/2024 DSA Resubmittal



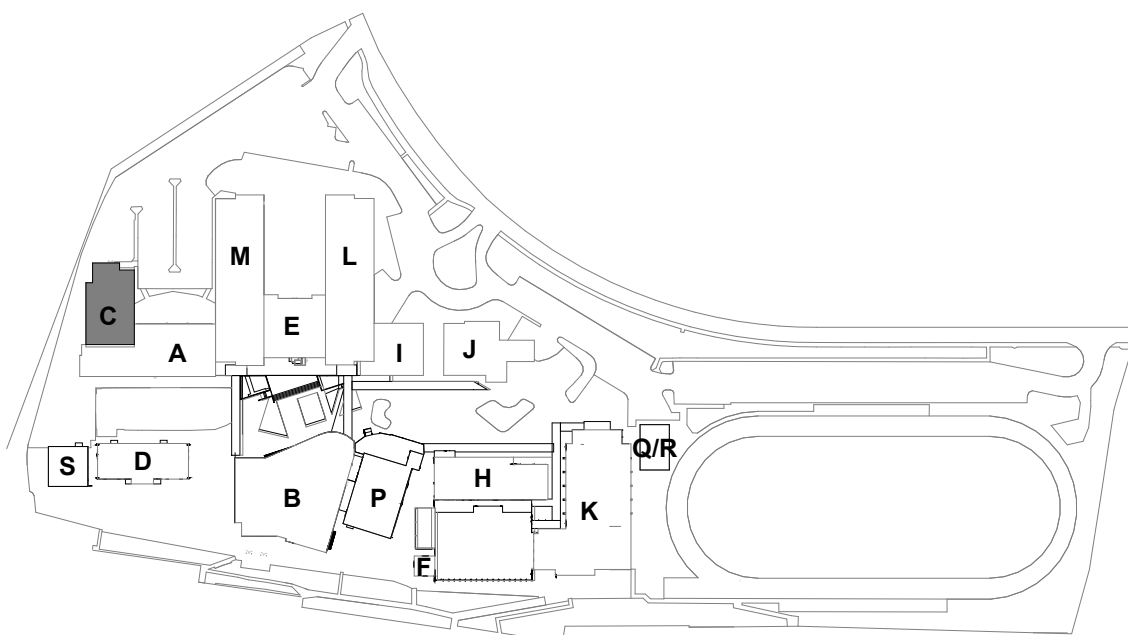
O'MAHONY & MYER
ELECTRICAL ENGINEERING & CONSULTING DESIGN
4340 REDWOOD HWY., SUITE 245
SAN RAFAEL, CALIFORNIA 94903
(415) 492-0420/FAX (415) 479-9602

HED

417 Montgomery Street
Suite 400
San Francisco, California
94104 USA

(415) 981-2345
WWW.HED.DESIGN

KEY PLAN



2023-SR001-002

FLOOR PLANS -
CBO &
FACILITIES
MECH. POWER
E-302

(E) PANEL 3LA

Location: Supply From: MD4
Mounting: EXISTING
Enclosure: EXISTING
Notes:

Volts: 120/208V 3PH, 4W
Phases: 3
Wires: 4

A.I.C. Rating: EXISTING
Mains Type: MCB
Mains Rating: 225 A
MCB Rating: 225 A

CKT	Circuit Description	Type	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Type	Circuit Description	CKT	
1	(E) DISPLAY LIGHTS	--	20 A	1	0.24			0.96				1	20 A	--	(E) ROOM 108	2
3	(E) TRACK LIGHTS	--	20 A	1		0.40			0.96			1	20 A	--	(E) ROOM 108	4
5	(E) IDF CONTROLS	--	20 A	1			0.60			0.96		1	20 A	--	(E) ROOM 107	6
7	(E) FAEP, FSD	--	20 A	1	0.10			0.96				1	20 A	--	(E) ROOM 107	8
9	(E) RMS, 115, 117, HALL RECEP.	--	20 A	1		0.72			0.96			1	20 A	--	(E) ROOM 108	10
11	(E) CONTROL RECEP.	--	20 A	1			1.08			0.96		1	20 A	--	(E) ROOM 108	12
13	(E) CONTROL RECEP.	--	20 A	1	0.54			0.90				1	20 A	R	OFFICE 5 121	14
15	(E) MEDIA RECEP.	--	20 A	1		1.08			1.08			1	20 A	R	WAITING 120	16
17	(E) MEDIA RECEP.	--	20 A	1			0.90			0.70		1	20 A	M	WAITING 120 - TV	18
19	(E) F1-11	--	20 A	1	1.70			0.90		0.30		1	20 A	--	(E) CONF 129	20
21	(E) F1-8	--	20 A	1		1.70				0.30		1	20 A	--	(E) VENT FAN	22
23	(E) F1-7	--	20 A	1			1.70			0.50		1	20 A	--	(E) CONF 129	24
25	(E) F1-8	--	20 A	1	1.70			0.50				1	20 A	--	(E) LOAD	26
27	EF-1, EF-2	H	20 A	1		0.26			0.88			1	20 A	R, M	CONF 129 - TV	28
29	(E) FIRE ALARM BELL	--	20 A	1			0.10			0.72		1	20 A	R	CONF 129	30
31	(E) EF1-1	--	20 A	1	1.60			0.54				1	20 A	R	RESTROOM 128	32
33	(E) EF2-2	--	20 A	1		1.70			1.46			1	20 A	M	RESTROOM 128 - HAND DRYER	34
35	OFFICE 1 125	R	20 A	1			0.90			0.00		1	20 A	--	SPARE	36
37	OFFICE 2 124	R	20 A	1	1.08				0.96			1	20 A	--	(E) FA PANEL	38
39	OFFICE 3 123	R	20 A	1		1.08			0.20			1	20 A	--	(E) FA DIALER	40
41	OFFICE 4 122	R	20 A	1		1.08			1.08			1	20 A	--	(E) FA ANNUNCIATOR	42

DEMAND LOAD SUMMARY	CONNECTED...	DEMAND FACTOR	DEMAND KVA				PANEL TOTALS
TYPE "M": NON-CONTINUOUS / MIS...	2.86	100.00%	2.86				KVA
TYPE "L": LIGHTING / CONTINUOUS...							AMPS
TYPE "R": RECEPTACLES	8.46	100.00%	8.46	PHASE A:	23.36	199.4 A	
TYPE "H" HVAC / MECHANICAL...	0.26	100.00%	0.26	PHASE B:	24.10	205.5 A	
				PHASE C:	19.68	164 A	
TOTALS	67.14		67.14				

(E) PANEL 19L																
Location: (E) CUST 22					Volts: 120/208V 3PH, 4W					A.I.C. Rating: EXISTING						
Supply From:					Phases: 3					Mains Type: MLO						
Mounting: EXISTING					Wires: 4					Mains Rating: 225 A						
Enclosure: EXISTING					MCB Rating:											
Notes:																
BOLD AND UNDERLINED "TRIP" TEXT INDICATES NEW CIRCUIT BREAKER, TO MATCH MANUFACTURER AND AIC RATING OF (E) BREAKERS.																
CKT	Circuit Description	Type	Trip	Poles	A	B	C	A	B	C	Poles	Trip		Circuit Description	CKT	
1	(E) LOAD	--	20 A	1	0.60			0.60			1	20 A	--	(E) LOAD	2	
3	SPARE	--	30 A	2		0.00			0.60		1	20 A	--	(E) LOAD	4	
5		--	30 A	1		0.00			0.60		1	20 A	--	(E) LOAD	6	
7	(E) AC-2	--	30 A	2	2.40			0.60			1	20 A	--	(E) LOAD	8	
9		--	30 A	2	2.40			0.60			1	20 A	--	(E) LOAD	10	
11	(E) LOAD	--	20 A	1			0.60		0.60		1	20 A	--	(E) LOAD	12	
13	508, 509	R	20 A	1	0.72			0.54			1	20 A	R	608, 609	14	
15	RR 508 - HAND DRYER	M	20 A	1	1.46			1.46			1	20 A	M	RR 508 - HAND DRYER	16	
17	(E) LOAD	--	20 A	1			0.60		1.46		1	20 A	M	RR 608 - HAND DRYER	18	
19	(E) LOAD	--	20 A	1	0.60			1.46			1	20 A	M	RR 608 - HAND DRYER	20	
21	RR 508 - HAND DRYER	M	20 A	1		1.46			0.55		1	20 A	M	RR 508 - HAND DRYER	22	
23	(E) LOAD	--	20 A	1			0.60		0.55		3	20 A	H	SF-1	24	
25	(E) LOAD	--	20 A	1	0.60			0.55							26	
27	(E) LOAD	--	20 A	2		1.60			1.60		2	20 A	--	(E) LOAD	28	
29		--	20 A	2			1.60			1.60	2	20 A	--	(E) LOAD	30	
31	(E) LOAD	--	20 A	1	0.60			0.00			1	20 A	--	(E) LOAD	32	
33	EF-3, EF-4	H	20 A	1		0.72			0.00		1	20 A	--	(E) LOAD	34	
35		--	20 A	1					0.00		1	20 A	--	(E) LOAD	36	
37	HP-1	H	40 A	2	2.70		2.70		3.49		2	50 A	H	HP-3	38	
39		--	40 A	2	2.70		2.70				2	50 A	H	HP-3	40	
41	HP-2	H	40 A	2			2.70			0.74	1	20 A	M	CORR. 500 & 600 DRINK, F'S	42	
DEMAND LOAD SUMMARY					CONNECTED...	DEMAND FACTOR			DEMAND KVA			PANEL TOTALS				
TYPE "M": NON-CONTINUOUS / MIS...					8.04	100.00%			8.04			KVA				
TYPE "L": LIGHTING / CONTINUOUS...												AMPS				
TYPE "R": RECEPTACLES					1.26	100.00%			1.26			15.47				
TYPE "H" HVAC / MECHANICAL...					20.18	100.00%			20.18			18.65				
												14.36				
TOTALS:					48.48				48.48							



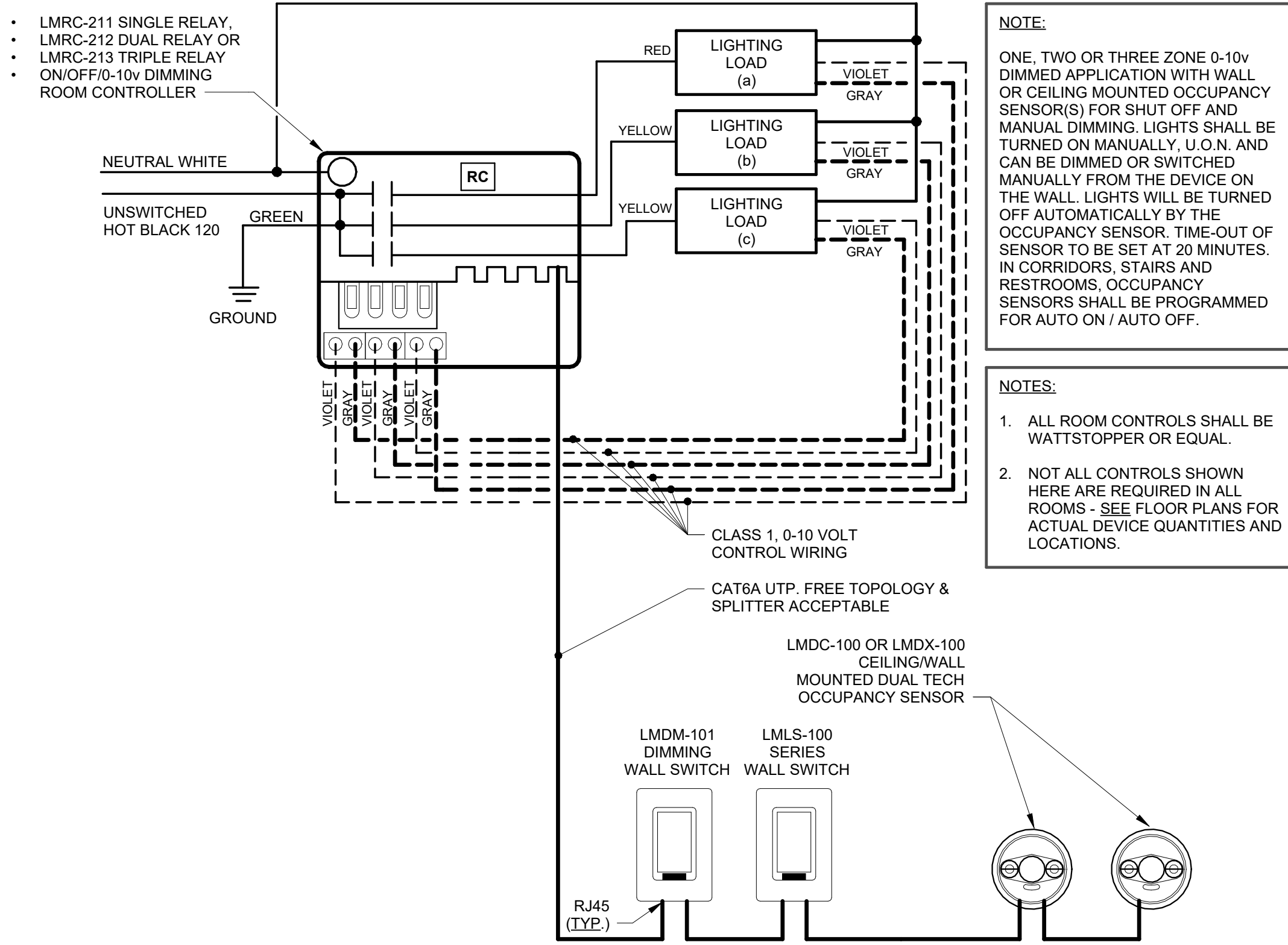
SRCS Terra Linda HS Wellness & Restroom Modernization

320 Nova Albion Way, San Rafael, CA 94903

Date Issued For 02/16/2024 DSA Resubmittal

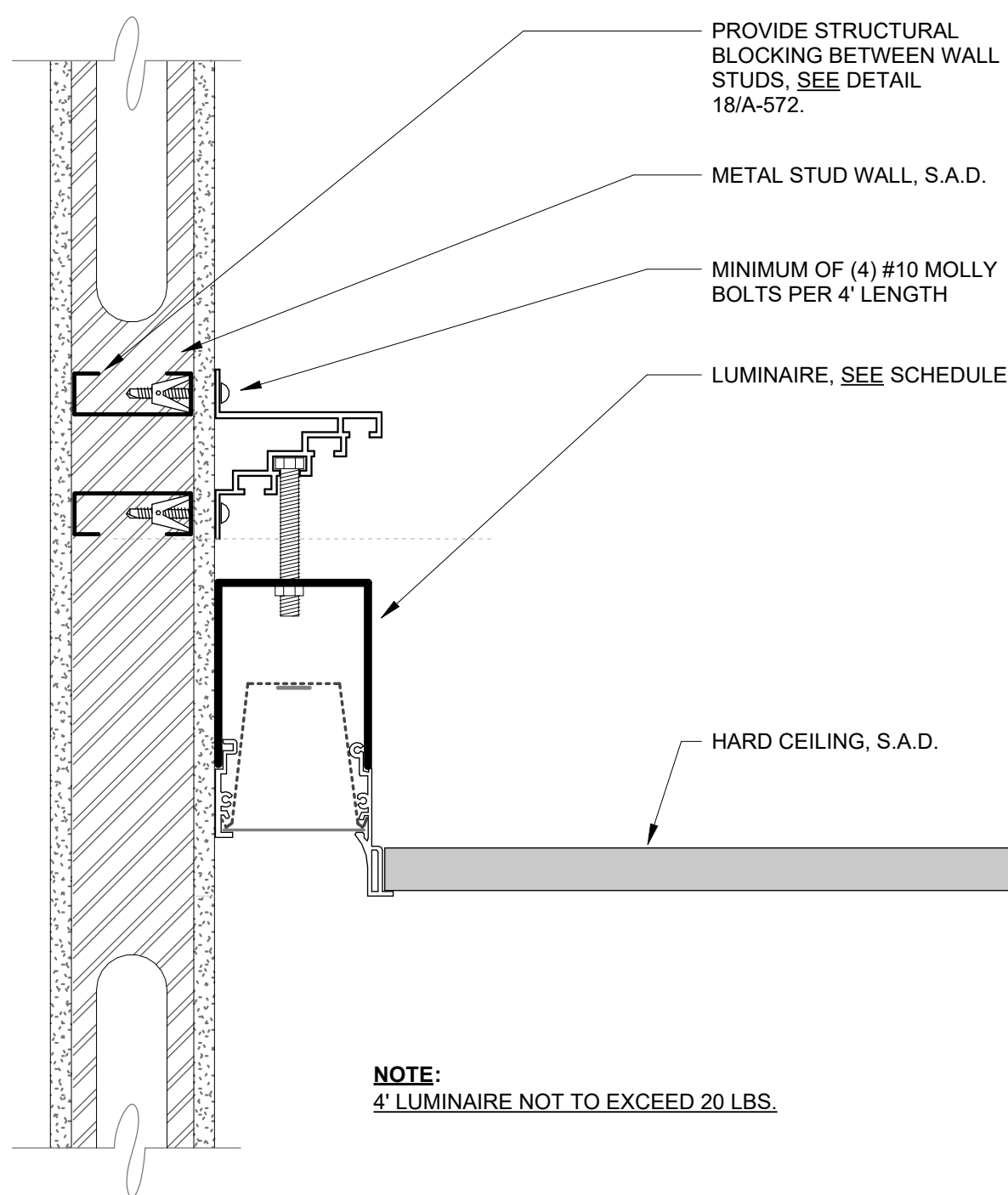


HED 417 Montgomery Street Suite 400 San Francisco, California 94104 USA (415) 981-2345 WWW.HED.DESIGN

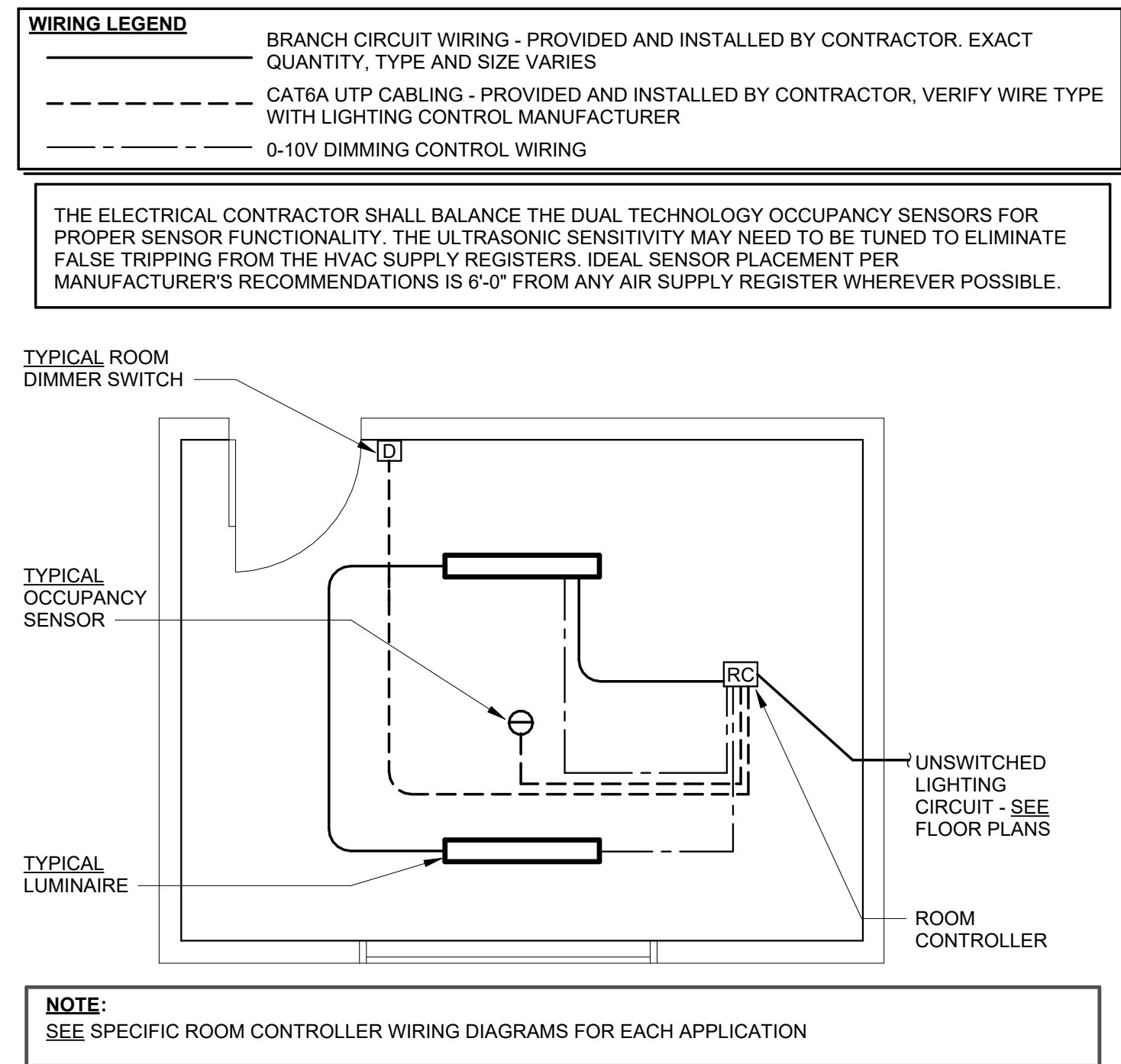


④ ONE, TWO, OR THREE ZONE ROOM & PLUG CONTROLLER
NO SCALE

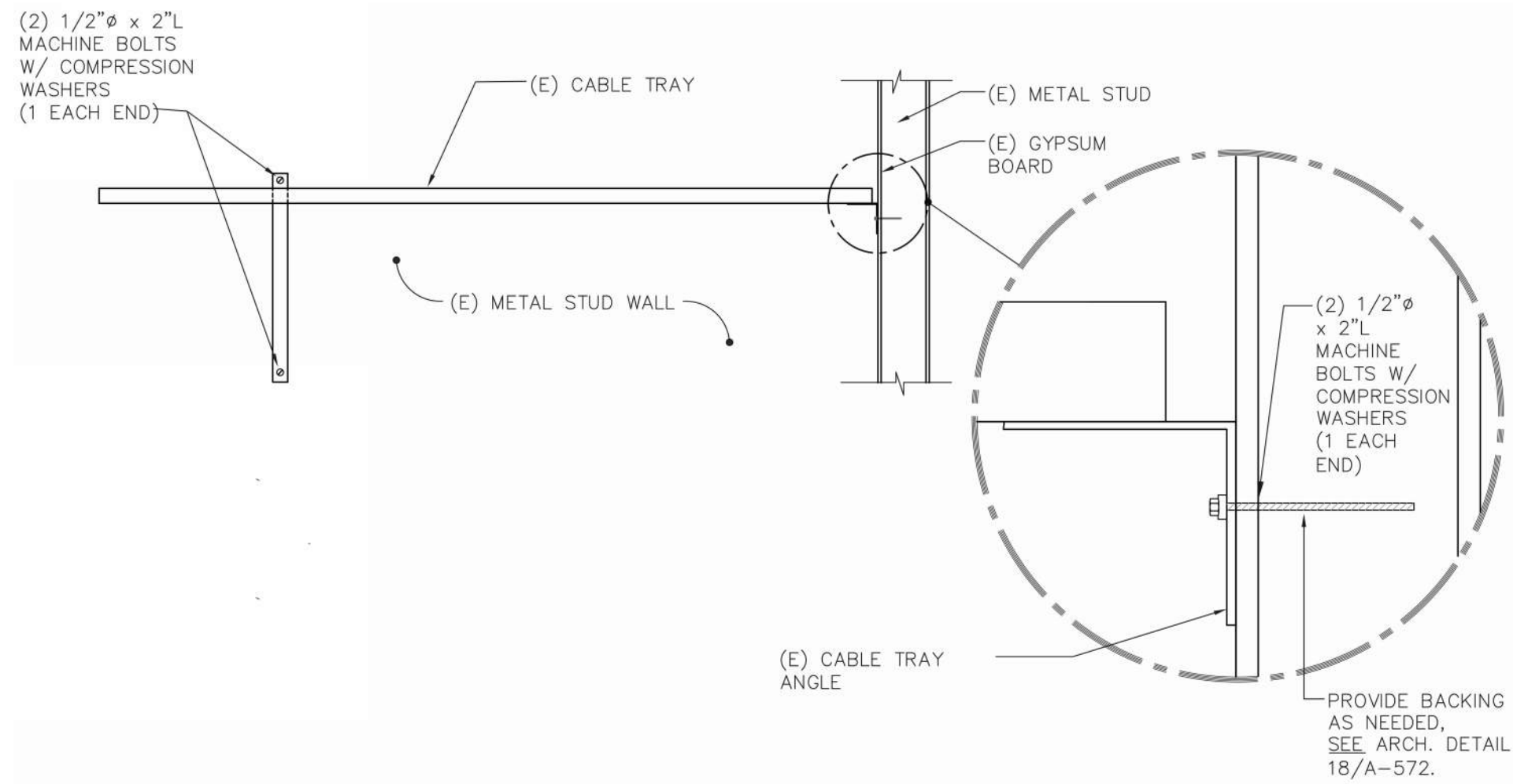
① IDF RACK EQUIPMENT ANCHORAGE
NOT TO SCALE



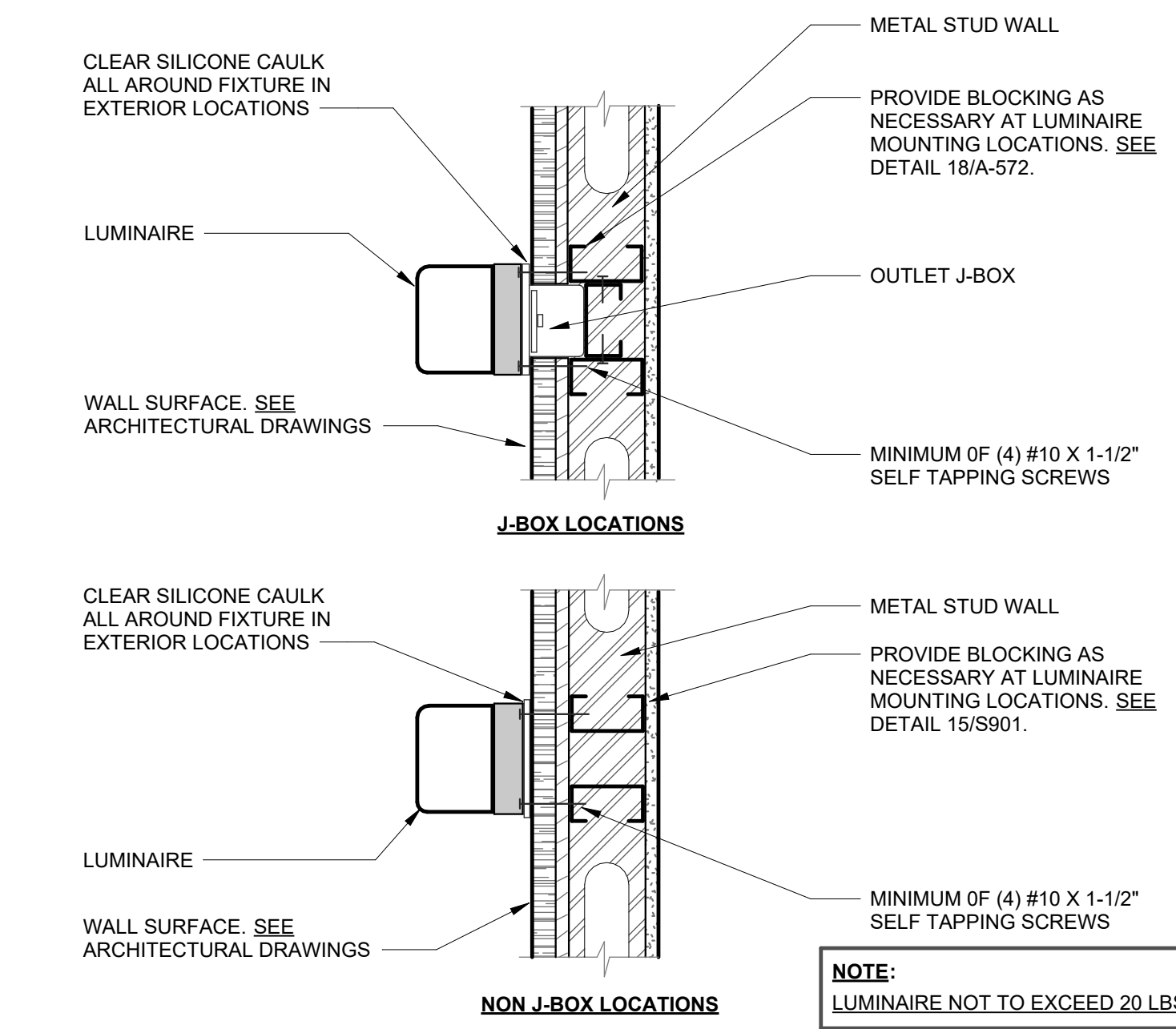
⑤ RECESSED PERIMETER SYSTEM - METAL CONSTRUCTION
NOT TO SCALE



② TYPICAL ROOM CONTROL DIAGRAM
NO SCALE



⑥ EXISTING CABLE TRAY MOUNTING
NOT TO SCALE



③ WALL MOUNTED LUMINAIRE METAL FRAMING
12" = 1'-0"

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Indoor Lighting			
CERTIFICATE OF COMPLIANCE		NRCC-LTI-E	
Project Name: Terra Linda HS Wellness/RR Modernization		Report Page:	(Page 7 of 9)
		Date Prepared:	11/6/2023

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE
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. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS
This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS
This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)
This section does not apply to this project.

T. DWELLING UNIT LIGHTING
This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online.
Form/Title
NRCC-LTI-E - Must be submitted for all buildings

	Generated Date/Time:	Documentation Software: EnergyPro
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: EnergyPro-8069-1123-0212 Report Generated: 2023-11-06 14:40:56

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

Project Name: Terra Linda HS Wellness/RR Modernization

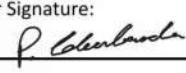
Report Page: (Page 8 of 9)

Date Prepared: 11/6/2023

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE	
Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html	
Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	Whole Building Time Switch; Restroom; Office; Lobby; Storage; Mechanical; Conference;

	Generated Date/Time:	Documentation Software: EnergyPro
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000	Compliance ID: EnergyPro-8069-1123-0212
	Schema Version: rev 20220101	Report Generated: 2023-11-06 14:40:56

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Indoor Lighting			
CERTIFICATE OF COMPLIANCE		NRCC-LTI-E	
Project Name:	Terra Linda HS Wellness/RR Modernization	Report Page:	(Page 9 of 9)
Project Address:	320 Nova Albion Way	Date Prepared:	11/6/2023

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name: Pieter Colenbrander	Documentation Author Signature: 
Company: O'Mahony & Myer	Signature Date: 2023-11-06
Address: 4340 Redwood Highway Suite 245	CEA/HERS Certification Identification (if applicable): E14738
City/State/Zip: San Rafael CA 94903	Phone: 415 492-0420

RESPONSIBLE PERSON'S DECLARATION STATEMENT	
I certify the following under penalty of perjury under the laws of the State of California:	
1. The information provided on this Certificate of Compliance is true and correct.	
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).	
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.	
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.	
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.	
Responsible Designer Name: Pieter Colenbrander	Responsible Designer Signature: 
Company: O'Mahony & Myer	Date Signed: 2023-11-06
Address: 4340 Redwood Hwy Ste: 245	License: E14738
City/State/Zip: San Rafael CA 94945	Phone: 415 492-0420

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000	Compliance ID: EnergyPro-8069-1123-0212
	Schema Version: rev 20220101	Report Generated: 2023-11-06 14:40:56

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Indoor Lighting			
CERTIFICATE OF COMPLIANCE		NRCC-LTI-E	
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	Date Prepared:	11/6/2023	

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 130.11(c) / 160.5(b)4C	Shut-off controls 130.1(c) / 160.5(b)4C	Field Inspector	
NA < 4,000W subject to multilevel		Pass	Fail
		<input type="checkbox"/>	<input type="checkbox"/>

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: EnergyPro-8069-1123-0212 Report Generated: 2023-11-06 14:40:56

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Indoor Lighting			
CERTIFICATE OF COMPLIANCE		NRCC-LTI-E	
Project Name: Terra Linda HS Wellness/RR Modernization	Report Page:	(Page 5 of 9)	
	Date Prepared:	11/6/2023	

H. INDOOR LIGHTING CONTROLS (Not including PAFs)									
Area Level Controls									
04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) / 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(e) / 160.5(b)4D	Interlocked Systems 140.6(a)1 / 170.2(e)2A	Field Inspector	
								Pass	Fail
Restroom	Restroom	Readily Accessible	NA: Restrooms	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	<input type="checkbox"/>	<input type="checkbox"/>
Office	Office (<=250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	<input type="checkbox"/>	<input type="checkbox"/>
Lobby	Main Entry Lobby	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	<input type="checkbox"/>	<input type="checkbox"/>
Storage	Commercial Industrial Storage Area	Readily Accessible	NA: Enclosed area <100SF	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	<input type="checkbox"/>	<input type="checkbox"/>
Mechanical	Electrical Mechanical Telephone Room	Readily Accessible	NA: Enclosed area <100SF	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	<input type="checkbox"/>	<input type="checkbox"/>
Conference	Convention, Conference, Multipurpose and Meeting Center	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	<input type="checkbox"/>	<input type="checkbox"/>
					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

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STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Indoor Lighting			
CERTIFICATE OF COMPLIANCE		NRCC-LTI-E	
Project Name: Terra Linda HS Wellness/RR Modernization	Report Page:	(Page 6 of 9)	
	Date Prepared:	11/6/2023	

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS						
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	
Restroom	Restroom	0.65	1,354	880.1	No	No
Office <250	Office (<=250 square feet)	0.65	627	407.6	No	No
Storage	All Other Space Types	0.4	284	113.6	No	No
Lobby	Main Entry Lobby	0.7	564	394.8	No	No
Mechanical	Electrical Mechanical Telephone Room	0.4	16	6.4	No	No
Conference	Convention, Conference, Multipurpose and Meeting Center	0.75	180	135	No	No
TOTALS:		3,025		1,937.5	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM
This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE
This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY
This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING
This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS
This section does not apply to this project.

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: EnergyPro-8069-1123-0212 Report Generated: 2023-11-06 14:40:56

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.

Project Name: Terra Linda HS Wellness/RR Modernization

Report Page: (Page 1 of 9)

Project Address: 320 Nova Albion Way

Date Prepared: 11/6/2023

A. GENERAL INFORMATION

01 Project Location (city)

San Rafael

04 Total Conditioned Floor Area (ft²)

3,025

02 Climate Zone

2

05 Total Unconditioned Floor Area (ft²)

0

03 Occupancy Types Within Project (select all that apply):

06 # of Stories (Habitable Above Grade)

1

• Office • Support Areas • All Other Occupancies

B. PROJECT SCOPE			
This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.			
Scope of Work		Conditioned Spaces	
My Project Consists of (check all that apply):		02 Calculation Method	03 Area (ft²)
<input checked="" type="checkbox"/> New Lighting System		Area Category Method	3025
<input type="checkbox"/> New Lighting System - Parking Garage		Area Category Method	0
Total Area of Work (ft²)		3025	0

	Generated Date/Time:	Documentation Software: EnergyPro
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: EnergyPro-8069-1123-0212 Report Generated: 2023-11-06 14:40:56

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Indoor Lighting			
CERTIFICATE OF COMPLIANCE		NRCC-LTI-E	
Project Name:	Terra Linda HS Wellness/RR Modernization	Report Page:	(Page 2 of 9)
		Date Prepared:	11/6/2023

C. COMPLIANCE RESULTS											
If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.											
Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)					Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)			Compliance Results		
	01	02	03	04	05	06	07	08	09		
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	Total Allowed (Watts)	Total Designed (Watts)	PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)	Total Adjusted (Watts) Includes Adjustments	05 must be >= 08 140.6 / 170.2(e)		
	(See Table I)	(See Table I)	(See Table J)	(See Table K)	=	(See Table F)	(See Table P)	=	COMPLIES		
Conditioned		1,937.5	0		= 1,937	≥ 1,472	0	= 1,472	COMPLIES		
Unconditioned					=	≥			COMPLIES		
Controls Compliance (See Table H for Details)										COMPLIES	
Rated Power Reduction Compliance (See Table Q for Details)											

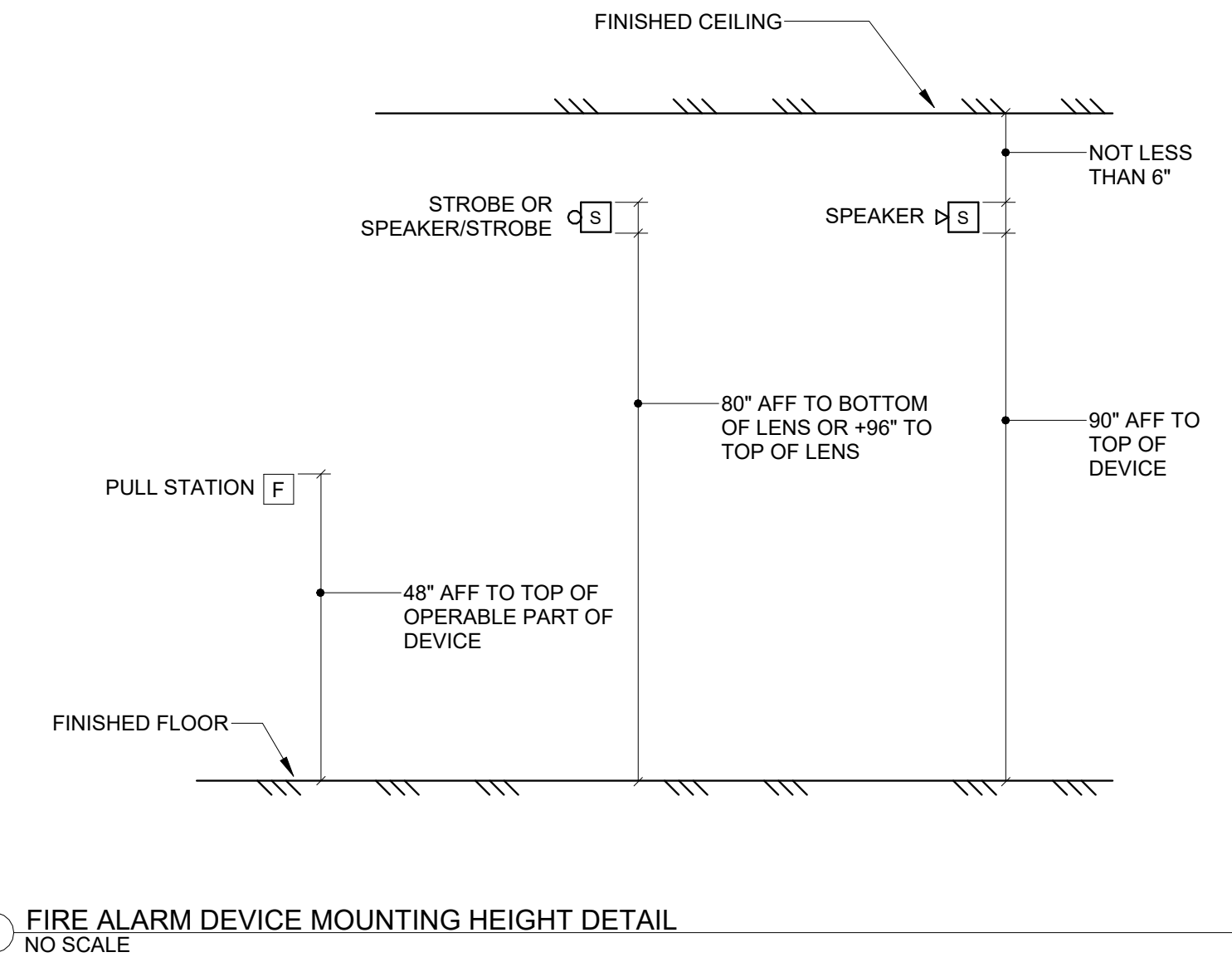
D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

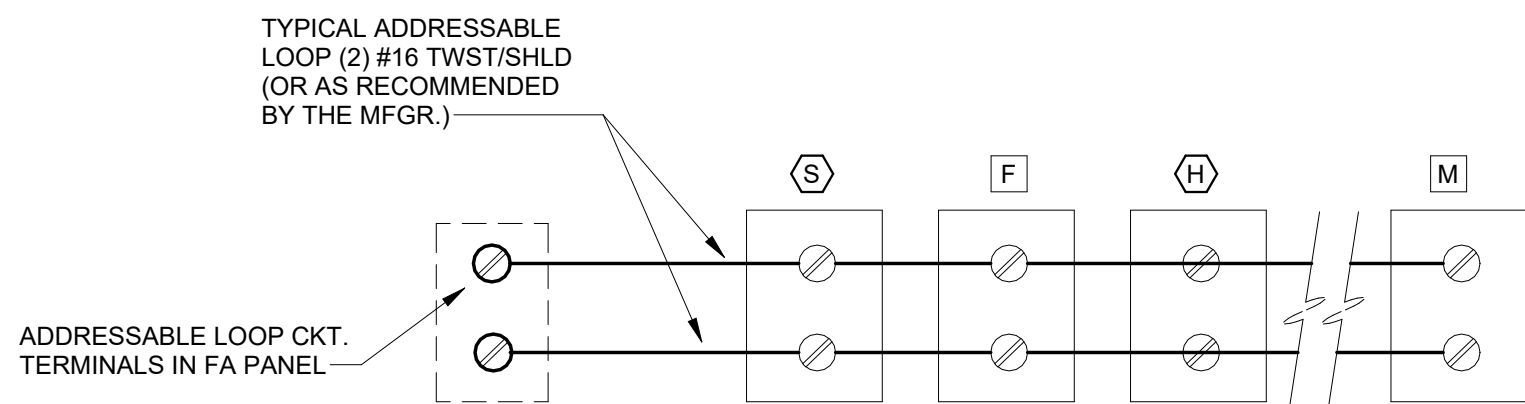
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	Schema Version: rev 20220101	Report Generated: 2023-11-06 14:40:56

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Indoor Lighting			
CERTIFICATE OF COMPLIANCE		NRCC-LTI-E	
Project Name:	Terra Linda HS Wellness/RR Modernization	Report Page:	(Page 3 of 9)
		Date Prepared:	11/6/2023

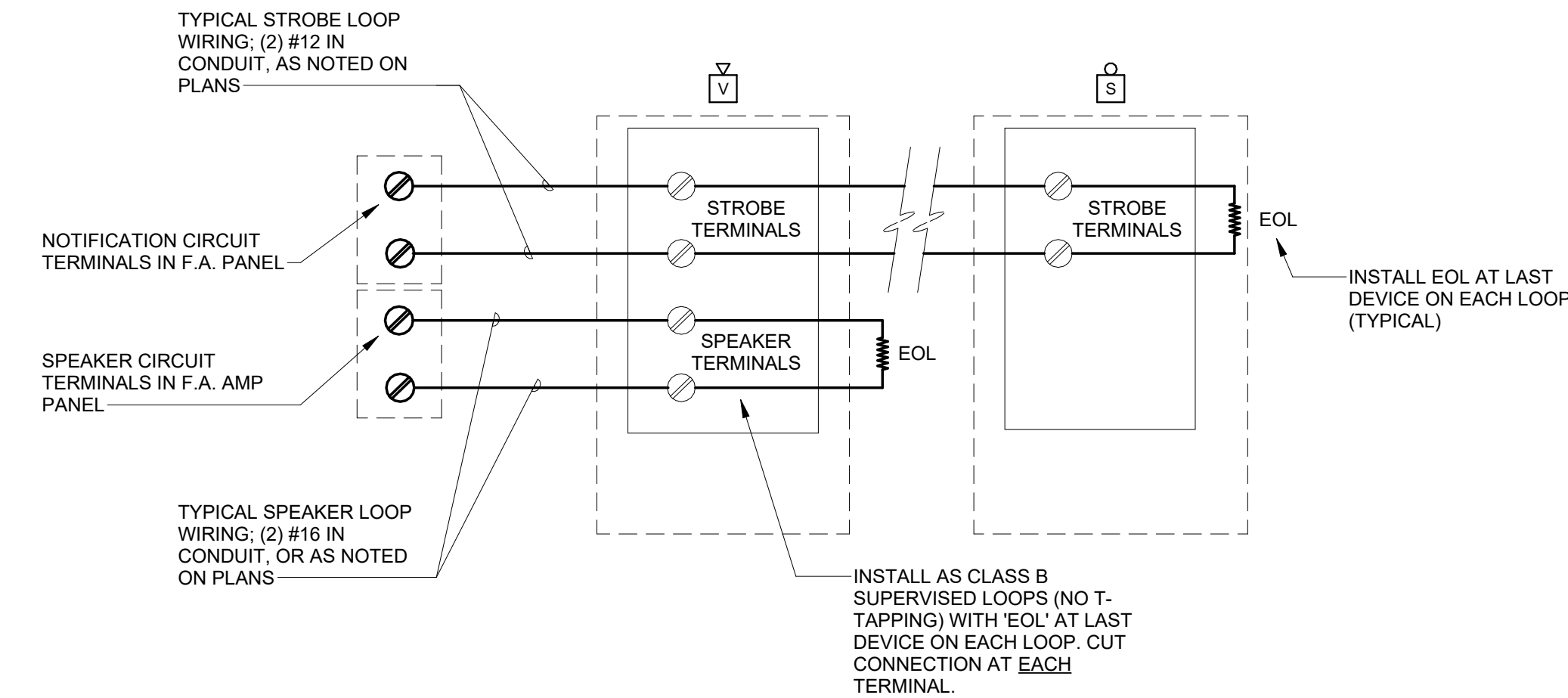
F. INDOOR LIGHTING FIXTURE SCHEDULE										
This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common 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	Completed Luminaires Description	Modular (Track) Fixture	Small Aperture & Color Change ¹	Watts per luminaire ²	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)(3) / 170.2(a)(2)C	Design Watts	Field Inspector	
									Pass	Fail
AA2	AA2-LINER 8	No	NA	62	Mfr. Spec.	6	No	372	<input type="checkbox"/>	<input type="checkbox"/>
AB1	AB1-DECORATIVE	No	NA	58	Mfr. Spec.	3	No	174	<input type="checkbox"/>	<input type="checkbox"/>
AC1	AC1-WALL LINEAR	No	NA	117	Mfr. Spec.	1	No	117	<input type="checkbox"/>	<input type="checkbox"/>
AD1	AD1-RECESSED	No	NA	9	Mfr. Spec.	7	No	63	<input type="checkbox"/>	<input type="checkbox"/>
AD2	AD2-RECESSED-WW	No	NA	9	Mfr. Spec.	14	No	126	<input type="checkbox"/>	<input type="checkbox"/>
AE1	AE1-LINER DOWN	No	NA	34	Mfr. Spec.	1	No	34	<input type="checkbox"/>	<input type="checkbox"/>
AE2	AE2-LINER DOWN	No	NA	89	Mfr. Spec.	2	No	178	<input type="checkbox"/>	<input type="checkbox"/>
AF1	AF1-SPEAKER CEILING	No	NA	15	Mfr. Spec.	19	No	285	<input type="checkbox"/>	<input type="checkbox"/>
AG1	AG1-3X4	No	NA	12	Mfr. Spec.	1	No	12	<input type="checkbox"/>	<input type="checkbox"/>
AG2	AG2-3X4	No	NA	23	Mfr. Spec.	2	No	46	<input type="checkbox"/>	<input type="checkbox"/>
AH1	AH1-STRIP	No	NA	20	Mfr. Spec.	1	No	20	<input type="checkbox"/>	<input type="checkbox"/>
AH2	AH2-STRIP	No	NA	11	Mfr. Spec.	1	No	11	<input type="checkbox"/>	<input type="checkbox"/>
AH3	AH3-STRIP	No	NA	34	Mfr. Spec.	1	No	34	<input type="checkbox"/>	<input type="checkbox"/>
Total Designed Watts: CONDITIONED SPACES								1,472		



1 FIRE ALARM DEVICE MOUNTING HEIGHT DETAIL
NO SCALE



2 TYPICAL ADDRESSABLE INITIATION LOOP WIRING
NO SCALE



3 TYPICAL NOTIFICATION / SPEAKER CIRCUIT WIRING
NO SCALE

SEQUENCE OF OPERATION MATRIX		RESPONSE							
ACTIVATION OF INITIATION DEVICES	MANUAL PULL STATION	X	X	X	X	X	X	X	X
		X	X	X	X	X	X	X	X
		X	X	X	X	X	X	X	X
		X	X	X	X	X	X	X	X
MANUE FUNCTION	INITIATION CIRCUITS	X	X	X					
		X	X	X					
		X	X	X					
		X	X	X					
SUPERVISORY SWITCHES	SPRINKLER TAMPER SWITCH	X	X	X					
		X	X	X					
		X	X	X					
		X	X	X					

SEQUENCE OF OPERATION NOTES	
1.	ACTIVATION OF ANY INITIATION DEVICE WILL PLACE THE FIRE ALARM CONTROL PANEL IN ALARM MODE AND WILL ACTIVATE ALL NOTIFICATION APPLIANCES. THE FIRE ALARM CONTROL PANEL SHALL DISPLAY THE ZONE (NON-ADDRESSABLE) OR DEVICE (ADDRESSABLE) OF THE ACTIVATED INITIATION DEVICE(S).
2.	UPON ALARM CONDITION, AUTO-DIALER TO NOTIFY THE OFF-SITE MONITORING STATION, AND AUTHORIZED SCHOOL PERSONNEL SHALL NOTIFY THE FIRE DEPARTMENT AND INITIATE EVACUATION OF STUDENTS AND FACULTY AS PER THE SCHOOL'S EVACUATION PLAN.
3.	WHEN THE PANEL IS ALARM CONDITION, THE NOTIFICATION APPLIANCES MAY BE DEACTIVATED ("SILENCED") AT THE FIRE ALARM CONTROL PANEL. ACTIVATION OF ANOTHER INITIATION DEVICE WILL PLACE THE CONTROL PANEL BACK IN ALARM CONDITION AND WILL AGAIN ACTIVATE ALL NOTIFICATION APPLIANCES.
4.	FAILURE OF THE FIRE ALARM SYSTEM COMPONENTS, WIRING OR POWER SUPPLY SHALL PLACE THE FIRE ALARM CONTROL PANEL IN TROUBLE CONDITION, RESULTING IN AN AUDIBLE AND VISUAL (LED) ALARM AT THE FIRE ALARM CONTROL PANEL ONLY. THE AUDIBLE ALARM MAY BE SILENCED AT THE CONTROL PANEL, BUT THE VISUAL ALARM WILL REMAIN ACTIVE UNTIL THE FAILED CONDITIONS ARE CORRECTED AND CLEARED.
5.	UPON TROUBLE CONDITION, AUTO-DIALER TO NOTIFY THE OFF-SITE MONITORING STATION, AND AUTHORIZED SCHOOL PERSONNEL SHALL NOTIFY THE AUTHORIZED TECHNICIAN TO CORRECT THE TROUBLE CONDITION.

GENERAL FIRE ALARM NOTES	
1.	FINAL FIRE ALARM TEST SHALL BE MADE WITH THE DSA INSPECTOR OF RECORD (IOR). LOCAL FIRE AUTHORITY SHALL BE NOTIFIED OF DATE AND TIME OF FINAL ALARM TESTING AND SHALL ASSIST/WITNESS SUCH TESTING WHEN ABLE. DSA/ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF (48) HOURS PRIOR TO THE FINAL INSPECTION AND/OR TESTING.
2.	FIRE ALARM CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.2. MONITORING SHALL BE TESTED AND VERIFIED AS SENDING THE CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT AND/OR PROVISIONS.
3.	UNDERGROUND AND EXTERIOR CONDUITS SHALL HAVE WATERTIGHT FITTINGS.
4.	FIRE ALARM DEVICE MOUNTING HEIGHTS: a. PULL STATION: 48" TO TOP OF OPERATOR ABOVE FINISHED FLOOR. b. SPEAKER INTERIOR/EXTERIOR: 80" MIN. TO TOP OF DEVICE ABOVE FINISHED FLOOR, OR 100" MAX TO TOP OF DEVICE, BUT NOT LESS THAN 6" FROM CEILING. c. WALL MOUNTED STROBE OR SPEAKER/STROBE: BETWEEN 80" TO BOTTOM OF DEVICE LENS TO +96" TO TOP OF DEVICE LENS ABOVE FINISH FLOOR, BUT NOT LESS THAN 6" FROM CEILING. d. CONTROL PANELS / ANNUNCIATORS: 48" TO BOTTOM OF EQUIPMENT.
5.	AUDIBLE FIRE ALARM SYSTEM LEVEL SHALL BE AT LEAST 15dBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL IN ALL OCCUPIABLE AREAS, OR 5 dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, MEASURED AT 5 FEET ABOVE THE FLOOR. AUDIBLE SIGNALS SHALL NOT BE LESS THAN 75dBA AT 10 FEET, OR MORE THAN 110dBA AT THE MINIMUM HEARING DISTANCE.
6.	AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL THREE DISTINCTIVE FIRE ALARM SOUND PER NFPA 72.
7.	APPLICABLE CODES: a. CBC 2022, CEC 2022, CMC 2022, CFC 2022. b. STATE FIRE MARSHAL TITLE 19, PUBLIC SAFETY. c. NFPA 72, 2022 EDITION W/CA AMENDMENTS, FIRE ALARM CODE.
8.	STROBES SHALL FLASH AT A RATE NOT EXCEEDING TWO FLASHES PER SECOND, AND NOT LESS THAN ONE FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELA. VISUAL DEVICES WITHIN 55 FEET OF EACH OTHER SHALL BE SYNCHRONIZED.
9.	FIRE ALARM CONTRACTOR SHALL PROVIDE A COPY OF NFPA 72 SYSTEM RECORD OF COMPLETION, SYSTEM RECORD OF INSPECTION AND TESTING, AND THE "EMERGENCY COMMUNICATIONS SUPPLEMENTARY RECORD OF COMPLETION", TO THE INSPECTOR OF RECORD (IOR/DSA, SCHOOL DISTRICT, ARCHITECT AND LOCAL FIRE AUTHORITY).
10.	POWER SERVICE TO THE FAC. REMOTE POWER SUPPLIES, AND CENTRAL STATION AUTO DIALER SHALL BE ON A DEDICATED BRANCH CIRCUIT WITH A RED MARKING AND IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL".
11.	INSTALL ALL WIRING IN CONDUIT, MIN. 3/4" CONDUIT. ALL FIRE ALARM SYSTEM WIRING SHALL BE TPL (FIRE POWER LINE) OR TPLP (FIRE POWER LIMITED PLENUM RATED) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE THHN OR THWN.
12.	CONDUIT AND WIRING SHALL BE PER MANUFACTURERS REQUIREMENTS.
13.	ALL FIRE ALARM COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICES/EQPT. SHALL EXCEED 20LBS. WITHOUT SPECIAL MOUNTING DETAILS.
14.	INSTALLATION OF SYSTEM SHALL NOT BE STARTED UNTIL COMPLETE SET OF CONSTRUCTION DOCUMENTS WITH DEVICE TYPES AND LISTINGS) HAVE BEEN REVIEWED AND APPROVED BY DSA.
15.	A STAMPED SET OF APPROVED PLANS SHALL BE ON THE JOB SITE AT ALL TIMES AND SHALL BE USED FOR INSTALLATION.
16.	ANY DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND ARCHITECT/ENGINEER OF RECORD.
17.	THE CONTRACTOR SHALL INSTALL AND ADJUST ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
18.	SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1 FOOT FROM FIRE SPRINKLER HEADS OR 3 FEET FROM ANY SUPPLY DIFFUSER. IN AREAS OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION, INSTALLED DEVICES SHALL BE COVERED UNTIL AREA IS READY TO BE TURNED OVER TO THE OWNER.
19.	PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE ALARM DEVICE. DO NOT SPICE WIRE. THERE MUST BE AT LEAST 8" OF WIRE LEAD FROM THE BOX TO THE DEVICE. ALL BOXES TO BE SIZED PER CEC FOR PROPER VOLUME WITH INSTALLED WIRING AND DEVICES.
20.	SUPERVISING STATION: 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 CFC CHAPTER 80. THE SUPERVISION STATION SHALL BE LISTED AS EITHER ULFPC OR ULUS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011.
21.	ALL RECORD DOCUMENTATION SHALL BE STORED IN THE DOCUMENTATION CABINET (NFPA 72, 7.7.2.3). PROVIDE NAMEPLATE "FIRE ALARM SYSTEM RECORD DOCUMENTS" (NFPA 72, 7.7.2.5).
22.	EXISTING CO DETECTION ALARM DOES NOT SEND GENERAL ALARM OR DIAL OUT. PROVIDES A TEMPORAL SOUND AT LOCAL SITE OF CO DETECTION & A TROUBLE NOTICE ON ANNUNCIATOR PANEL.

FIRE ALARM EQUIPMENT LIST			
SYMBOL	DESCRIPTION	MANUFACTURER & MODEL NUMBER	CSFM LISTING NUMBER
FACP	(E) FIRE ALARM CONTROL PANEL (FOR REFERENCE ONLY)	SIEMENS FIREFINDER XLSV	7165-0067.0222
(S)	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR	SIEMENS FDO421	7272-0067.0258
(H)	ADDRESSABLE FIX TEMPERATURE HEAT DETECTOR (135F)	SIEMENS FDT421	7270-0067.0262
	ADDRESSABLE DETECTOR BASE	SIEMENS DB-11	7300-0067.0134
(S)	VISUAL STROBE, WALL MOUNT, SELECTABLE CANDELA	WHEELock #LSTW3	7135-0067.0516
	UL 1971 PUBLIC MODE NOTIFICATION		
(V)	COMBINATION VISUAL STROBE AND SPEAKER (1W TAP), WALL MOUNT, SELECTABLE CANDELA	SIEMENS #SL2SPSWW-F	7135-0067.0517
	UL 1971 PUBLIC MODE NOTIFICATION		
NOTICE TO CONTRACTORS:			
THE SYSTEM DESIGN IS BASED ON THE PRODUCTS SHOWN ON THIS FIRE ALARM EQUIPMENT LIST AND HAS BEEN APPROVED BY DSA AS SUCH. DEVIATIONS FROM THE APPROVED DESIGN (FOR MANUFACTURER OR DEVICE LAYOUTS) MAY BE ALLOWED WITH THE APPROVAL BY THE ARCHITECT. HOWEVER, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REDESIGN AND RESUBMIT THE PLANS TO DSA FOR RE-APPROVAL.			
DETECTOR SUBSCRIPT LEGEND:			
"c" - DETECTOR TO BE LOCATED WITHIN ACCESSIBLE CEILING SPACE			
"p" - DETECTOR TO BE LOCATED WITHIN 36" OF CEILING PEAK			

FIRE ALARM WIRING LEGEND		
TAG	DESCRIPTION	CABLING
A	INITIATION CIRCUIT	(2) #16 TWISTED/UNSHIELDED - WESTPENN 990S (OR WESTPENN AQC225 (WET))
B	STROBE NOTIFICATION CIRCUIT(S)	(2) #12 THHN/THWN
C	SPEAKER NOTIFICATION CIRCUIT(S)	(2) #16 SHIELDED SPKR CABLE - WESTPENN 991 (OR WESTPENN AQC294 (WET))
D	24V AUX POWER CIRCUIT	(2) #14 TWISTED/UNSHIELDED - WESTPENN 994S (OR WESTPENN AQC226 (WET))
NOTE: CONTRACTOR SHALL VERIFY EXACT CABLE/WIRE TYPES WITH SYSTEM MANUFACTURER PRIOR TO ROUGH-IN. INSTALL WIRING IN 3/4" CONDUIT MIN.		

FIRE ALARM SYSTEM DESCRIPTION	FIRE ALARM SCOPE OF WORK
1. THE FIRE ALARM SYSTEM IS AN EXISTING AUTOMATIC ADDRESSABLE SYSTEM WITH STYLE 4, CLASS B WIRING FOR IDC'S, NACS, AND SLCS WITH EMERGENCY VOICE / ALARM COMMUNICATIONS.	1. PROVIDE (N) INITIATION AND NOTIFICATION DEVICES AT THE PROJECT AREAS OF WORK FOR (N) AUTOMATIC, ADDRESSABLE FIRE ALARM SYSTEM. REPROGRAM (E) FACP TO SUPPORT THE (N) DEVICES, FULLY NETWORKED TO THE (E) SIEMENS FIRE ALARM SYSTEM ALREADY ACTIVE AT THE CAMPUS.
2. PROVIDE COMPLETE PROGRAMMING, AND ALL NECESSARY DEVICES FOR COMPLETE SYSTEM.	2. REPROGRAM THE (E) FIRE ALARM NETWORK TO ACCOMMODATE THE (N) EQUIPMENT AND DEVICES, TO ALLOW FULL ANNUNCIATION OF ALL (N) DEVICES AT THE (E) MAIN CAMPUS FACP, (E) MAIN CAMPUS ANNUNCIATOR, AND (E) OFF-SITE MONITORING.
3. CIRCUIT PATHWAY SURVIVABILITY SHALL BE LEVEL 1.	3. TERMINATE EACH NOTIFICATION CIRCUIT TO THE (E) FAEP AS SHOWN ON PLANS AND RISER DIAGRAMS.
4. PROVIDE AND INSTALL NEW EQUIPMENT, DEVICES AND REQUIRED MODULES AND PROVIDE CONNECTIONS COMPLETE FOR A FULLY FUNCTIONING EXPANSION OF THE EXISTING FIRE ALARM SYSTEM.	4. TERMINATE THE INITIATION CIRCUITS TO THE (E) FACP AS SHOWN ON PLANS AND RISER DIAGRAMS.
5. THE NAME OF THE SPECIFIC PERSON RESPONSIBLE FOR THE SYSTEM DESIGN IS CHRIS LIPPINCOTT (OMAHONY & MYER).	
6. SYSTEM INSTALLATION SHALL BE BY A LICENSED ELECTRICAL OR FIRE ALARM CONTRACTOR WITH A CALIFORNIA C-10 LICENSE, REGULARLY ENGAGED IN THE INSTALLATION AND COMMISSIONING OF FIRE ALARM SYSTEMS TO NFPA 72 STANDARDS. INSTALLING CONTRACTOR'S NAME AND CONTACT INFORMATION SHALL BE LISTED IN THE NFPA CLOSE OUT DOCUMENTATION AT COMPLETION OF PROJECT.	

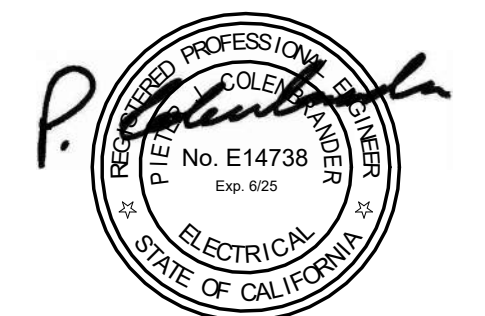
San Rafael City Schools



SRCS Terra Linda HS Wellness & Restroom Modernization

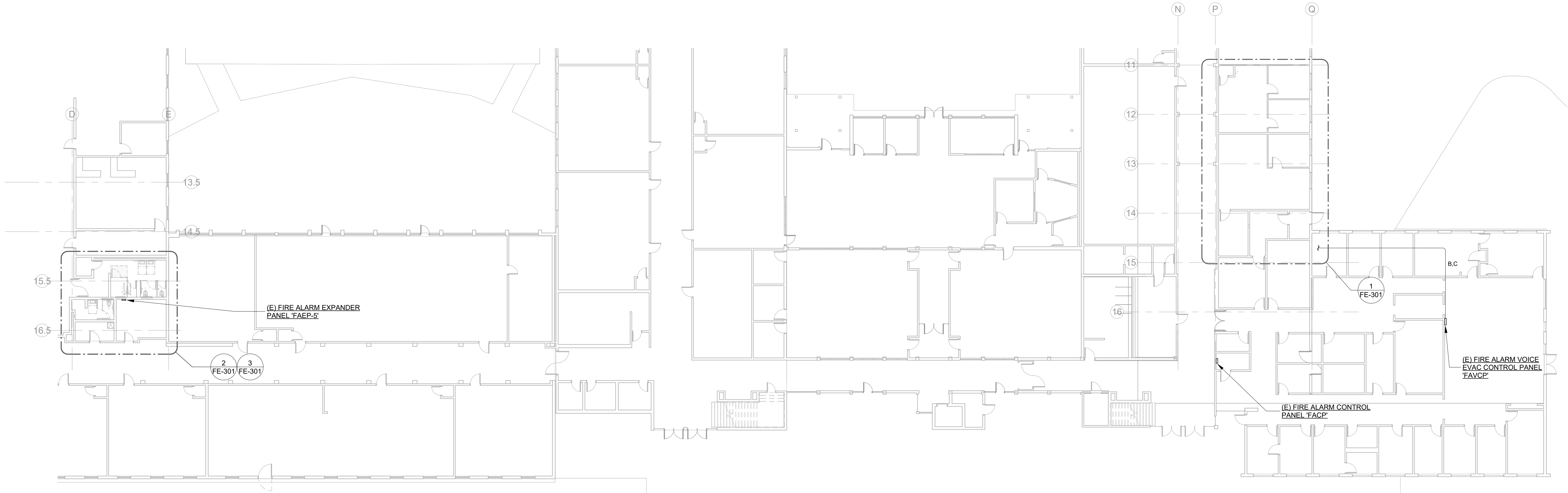
320 Nova Albion Way, San Rafael, CA 94903

Date Issued For
02/16/2024 DSA Resubmittal



HED

417 Montgomery Street
Suite 400
San Francisco, California
94104 USA
(415) 981-2345
WWW.HED.DESIGN



1 FIRST FLOOR PLAN - OVERALL FIRE ALARM
1/16" = 1'-0"

SHEET NUMBERED NOTES

San Rafael City
Schools



SRCS Terra Linda
HS Wellness &
Restroom
Modernization

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94903

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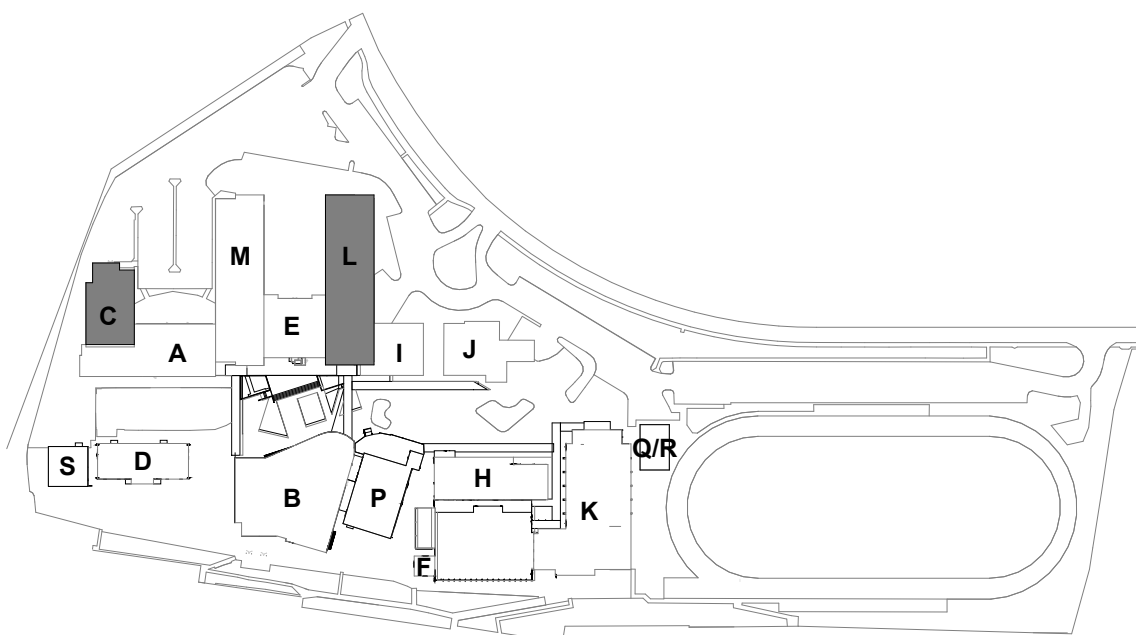
O'MAHONY & MYER
ELECTRICAL ENGINEERING & LIGHTING DESIGN
4540 REDWOOD HWY, SUITE 245
SAN RAFAEL, CALIFORNIA 94903
(415) 492-0420 / FAX (415) 479-9662

HED

417 Montgomery Street
Suite 400
San Francisco, California
94104 USA

(415) 981-2345
WWW.HED.DESIGN

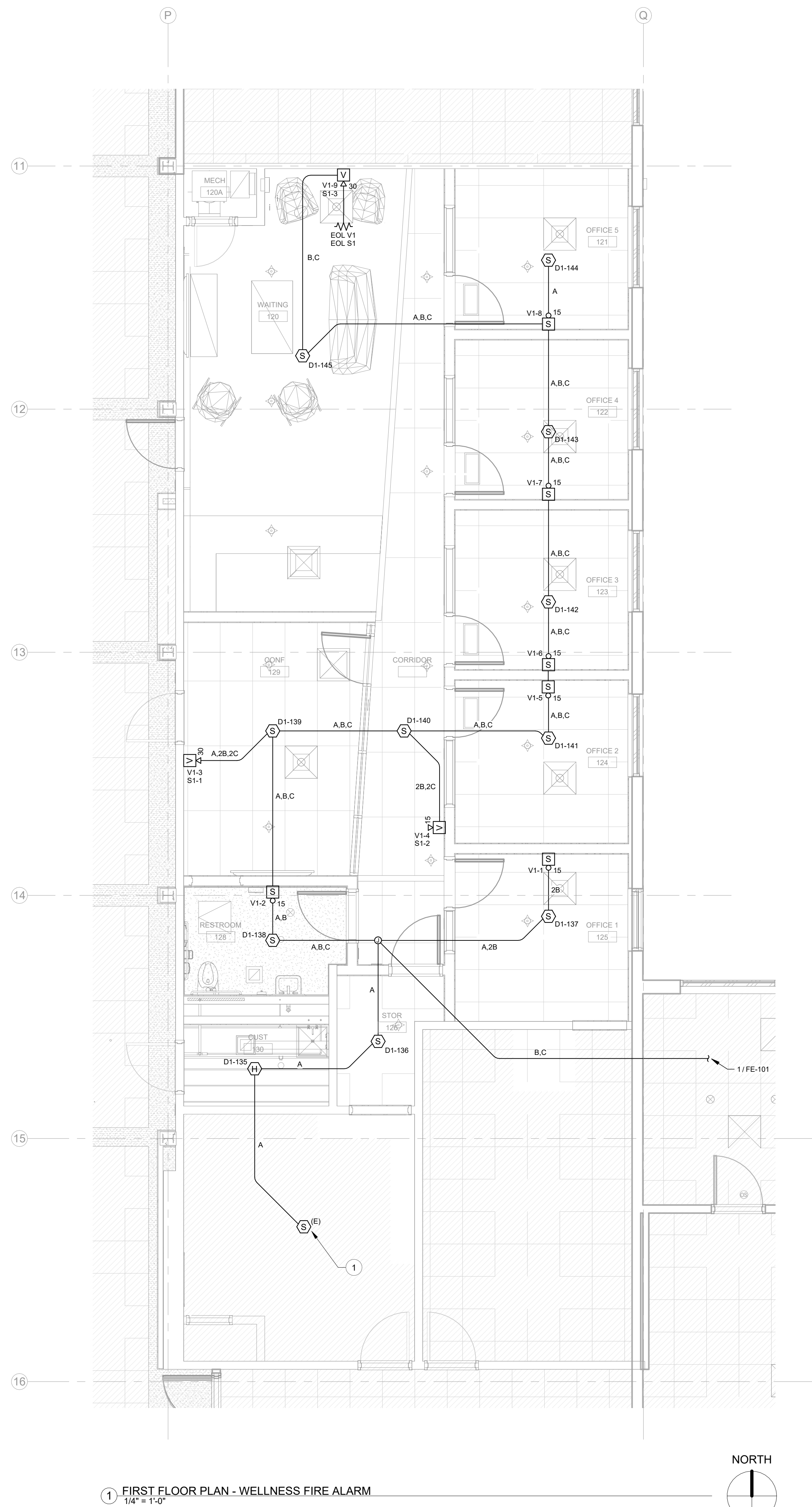
KEY PLAN



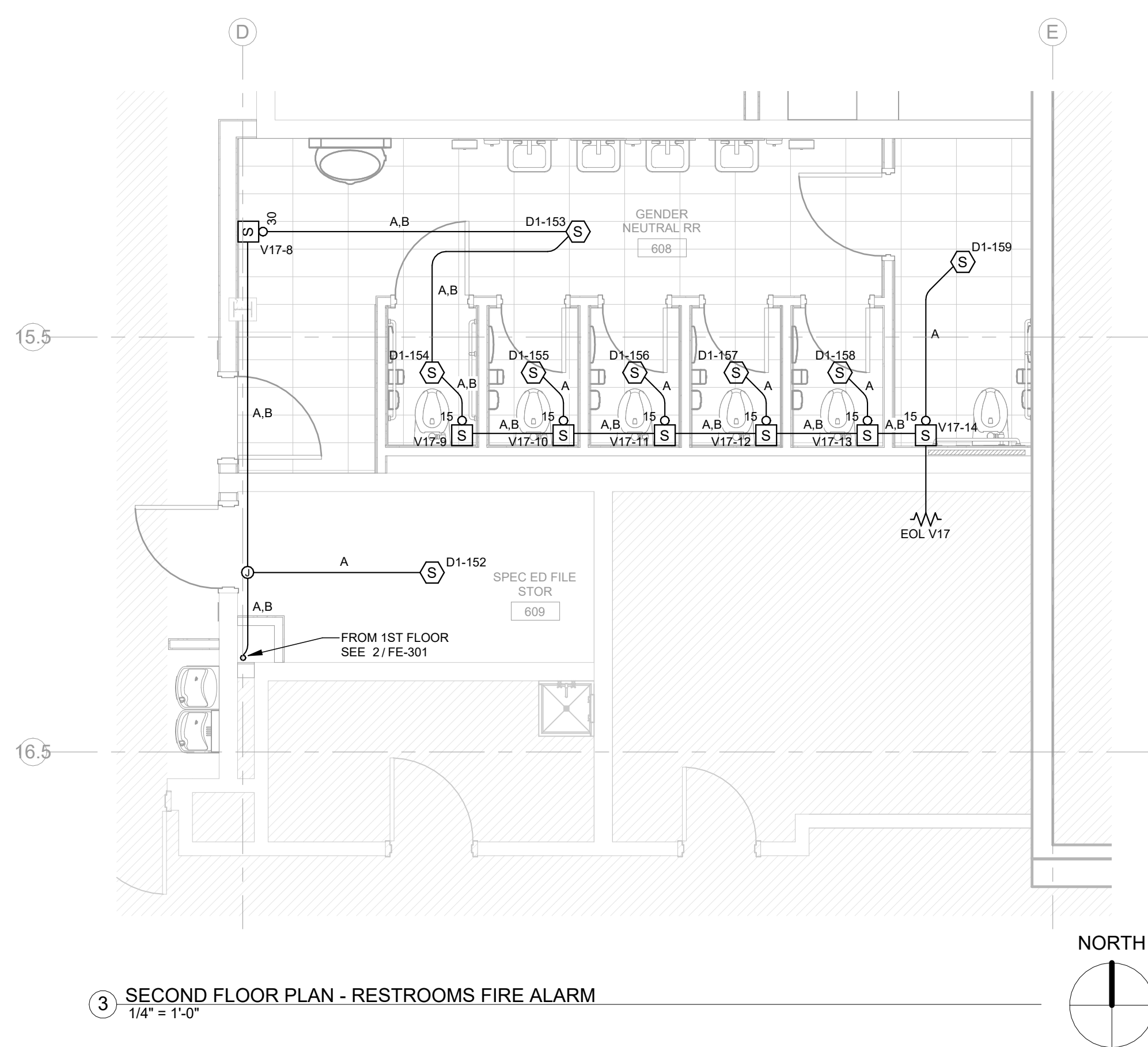
FIRST FLOOR
PLAN -
OVERALL FIRE
ALARM

FE-101

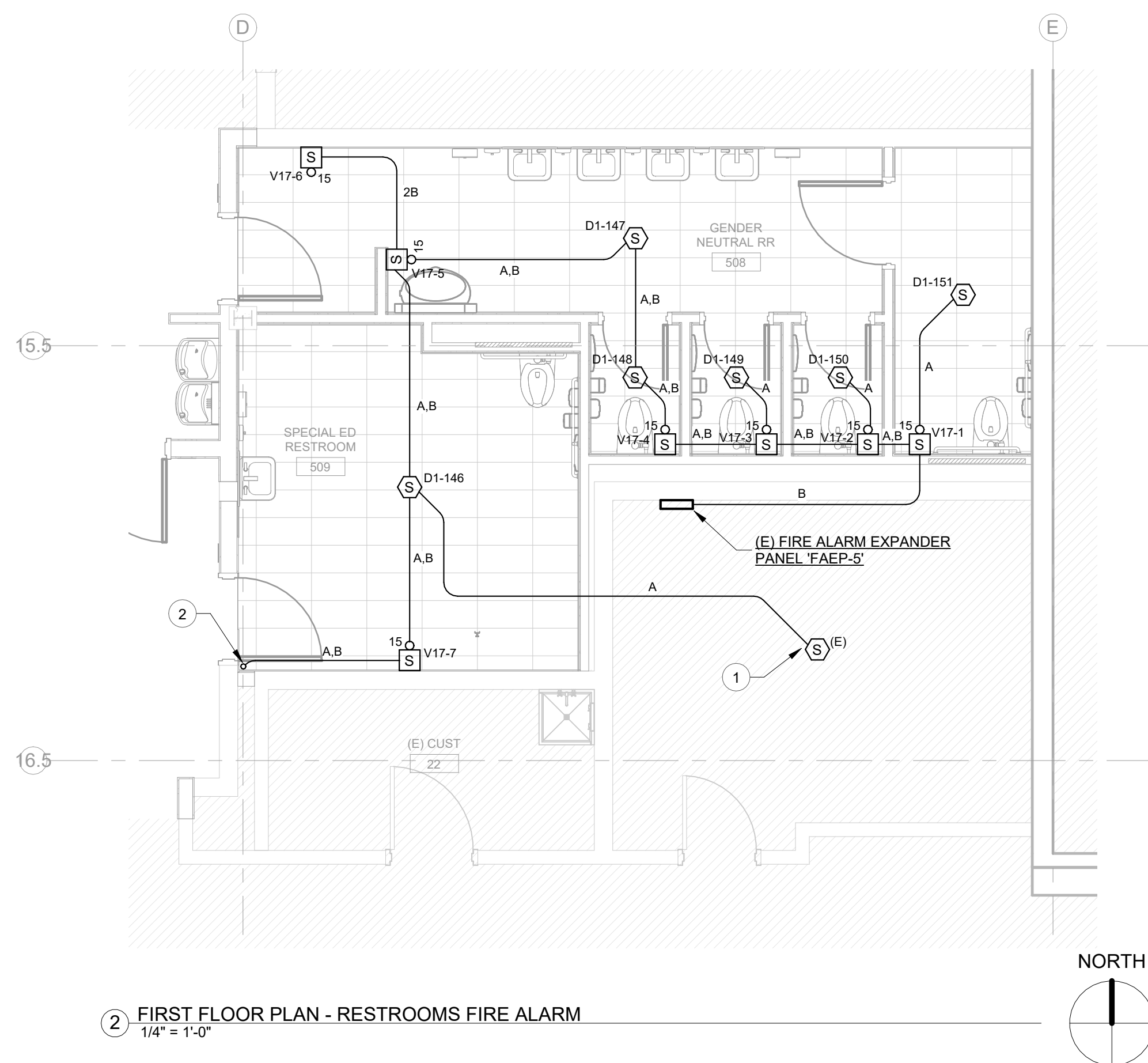
2023-SR001-002



1 FIRST FLOOR PLAN - WELLNESS FIRE ALARM
1/4" = 1'-0"



3 SECOND FLOOR PLAN - RESTROOMS FIRE ALARM
1/4" = 1'-0"



2 FIRST FLOOR PLAN - RESTROOMS FIRE ALARM
1/4" = 1' 0"

SHEET NUMBERED NOTES

- 1 INTERCEPT EXISTING SLC CIRCUIT AT EXISTING INITIATION DEVICE AND
EXTEND TO NEW DEVICE AS SHOWN.
- 2 UTILIZE EXISTING FIRE ALARM SYSTEM RISER TO ROUTE NEW FIRE
ALARM WIRING BETWEEN FIRST AND SECOND FLOOR.

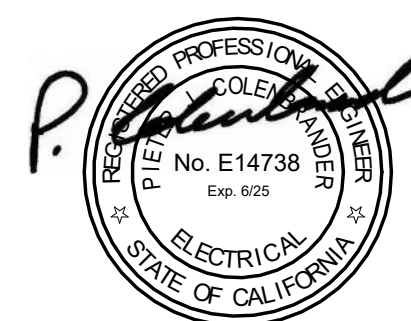
San Rafael City
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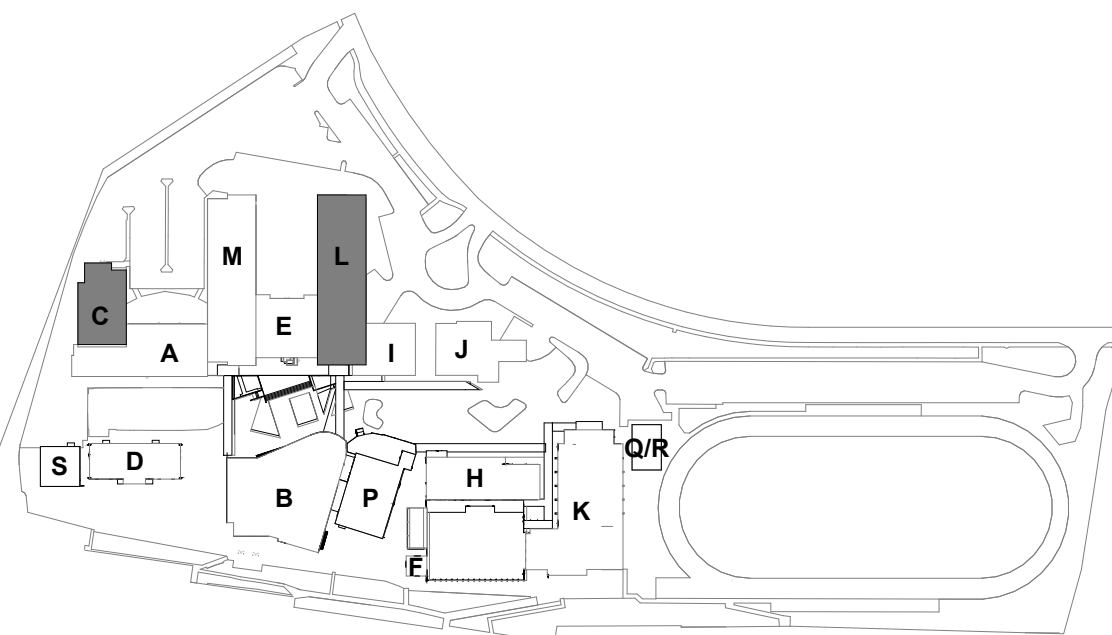


I-HED

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KEY PLAN



FLOOR PLANS - FIRE ALARM

FE-301

