

CODE COMPLIANCE

CHAPTER 4 PART 1, TITLE 24 C.C.R. ADMINISTRATIVE REQUIREMENTS (PARTIAL LISTING ONLY)

1. A COPY OF PARTS 1 AND 2, TITLE 24, C.C.R. SHALL BE KEPT ON THE JOB SITE AT ALL TIMES.
2. ALL CHANGE ORDERS AND ADDENDUMS TO BE SIGNED BY THE ARCHITECT AND THE OWNER AND APPROVED BY DSA. CHANGE ORDERS ARE NOT VALID UNTIL APPROVED BY DSA SECTION 4-336 PART 1, TITLE 24.
3. ALL TESTS TO CONFORM TO THE REQUIREMENTS OF SECTION 4-335, PART 1, TITLE 24, AND APPROVED T&I SHEET.
4. TESTS OF MATERIALS AND TESTING LABORATORY SHALL BE IN ACCORDANCE WITH SECTION 4-335 OF PART 1, TITLE 24 AND THE DISTRICT SHALL EMPLOY AND PAY THE LABORATORY. COSTS OF RE-TEST MAY BE BACK CHARGED TO THE CONTRACTOR. TESTING LABORATORY SHALL BE APPROVED BY DSA.
5. DSA SHALL BE NOTIFIED AT THE START OF CONSTRUCTION AND PRIOR TO THE PLACEMENT OF CONCRETE PER SECTION 4-331, PART 1, TITLE 24.
6. INSPECTOR SHALL BE APPROVED BY DSA. INSPECTOR SHALL BE IN ACCORDANCE WITH SECTION 4-333(B) AND 4-342, PART 1, TITLE 24.
7. SUPERVISION OF CONSTRUCTION BY DSA SHALL BE IN ACCORDANCE WITH SECTION 4-334, PART 1, TITLE 24.
8. CONTRACTOR, INSPECTOR, ARCHITECT, AND ENGINEERS SHALL SUBMIT VERIFIED REPORTS (FORM SSS-6) IN ACCORDANCE WITH SECTION 4-336 AND 4-343, PART 1, TITLE 24.
9. THE ARCHITECT AND THE STRUCTURAL ENGINEER SHALL PERFORM THEIR DUTIES IN ACCORDANCE WITH SECTION 4-333(A) AND 4-341, PART 1, TITLE 24.
10. THE CONTRACTOR SHALL PERFORM HIS DUTIES IN ACCORDANCE WITH SECTION 4-343, PART 1, TITLE 24.
11. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE PROJECT IN ACCORDANCE WITH TITLE 24, C.C.R. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, C.C.R. A CONSTRUCTION CHANGE DIRECTIVE (CCD) DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

PARTIAL LIST OF APPLICABLE CODES as of January 1, 2017

- 2016 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24, C.C.R.
- 2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, C.C.R. (2015 INTERNATIONAL BUILDING CODE WITH 2016 CALIFORNIA AMENDMENTS)
- 2016 CALIFORNIA ELECTRIC CODE (CEC), PART 3, TITLE 24, C.C.R. (2014 NATIONAL ELECTRIC CODE WITH 2016 CALIFORNIA AMENDMENTS)
- 2016 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, C.C.R. (2015 UNIFORM MECHANICAL CODE WITH 2016 CALIFORNIA AMENDMENTS)
- 2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, C.C.R. (2015 UNIFORM PLUMBING CODE WITH 2016 CALIFORNIA AMENDMENTS)
- 2016 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24, C.C.R.
- 2016 CALIFORNIA FIRE CODE (CFC), PART 8, TITLE 24, C.C.R. (2015 INTERNATIONAL FIRE CODE WITH 2016 CALIFORNIA AMENDMENTS)
- CCR TITLE-19, REGULATIONS OF THE STATE FIRE MARSHAL

PARTIAL LIST OF APPLICABLE STANDARDS (as referenced in 2017 CBC/CFE)

- NFPA 13 AUTOMATIC SPRINKLER SYSTEMS, 2016 EDITION (CA AMENDED)
- NFPA 14 STANDPIPE & HOSE SYSTEMS, 2013 EDITION (CA AMENDED)
- NFPA 17A WET CHEMICAL EXTINGUISHING SYSTEMS, 2013 EDITION
- NFPA 20 STATIONARY FIRE PUMPS FOR FIRE PROTECTION, 2016 EDITION
- NFPA 24 PRIVATE FIRE SERVICE MAINS, 2016 EDITION (CA AMENDED)
- NFPA 25 INSPECTION, TESTING AND MAINTENANCE OF WATER BASED FIRE PROTECTION SYSTEMS, 2013 CALIFORNIA EDITION
- NFPA 37 INSTALLATION AND USE OF STATIONARY COMBUSTION ENGINES AND GAS TURBINES, 2015 EDITION
- NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE, 2016 EDITION (CA AMENDED)
- NFPA 80 FIRE DOORS AND OTHER OPENING PROTECTIVES, 2016 EDITION
- NFPA 110 EMERGENCY AND STANDBY POWER SYSTEMS, 2016 EDITION
- NFPA 110 STANDARD FOR FIRE SAFETY AND EMERGENCY SYMBOLS, 2015 EDITION
- NFPA 2001 CLEAN AGENT FIRE EXTINGUISHING SYSTEMS, 2015 EDITION
- ICC 300 STANDARDS ON BLEACHERS, FOLDING AND TELESCOPING SEATING, AND GRANDSTANDS 2012 EDITION

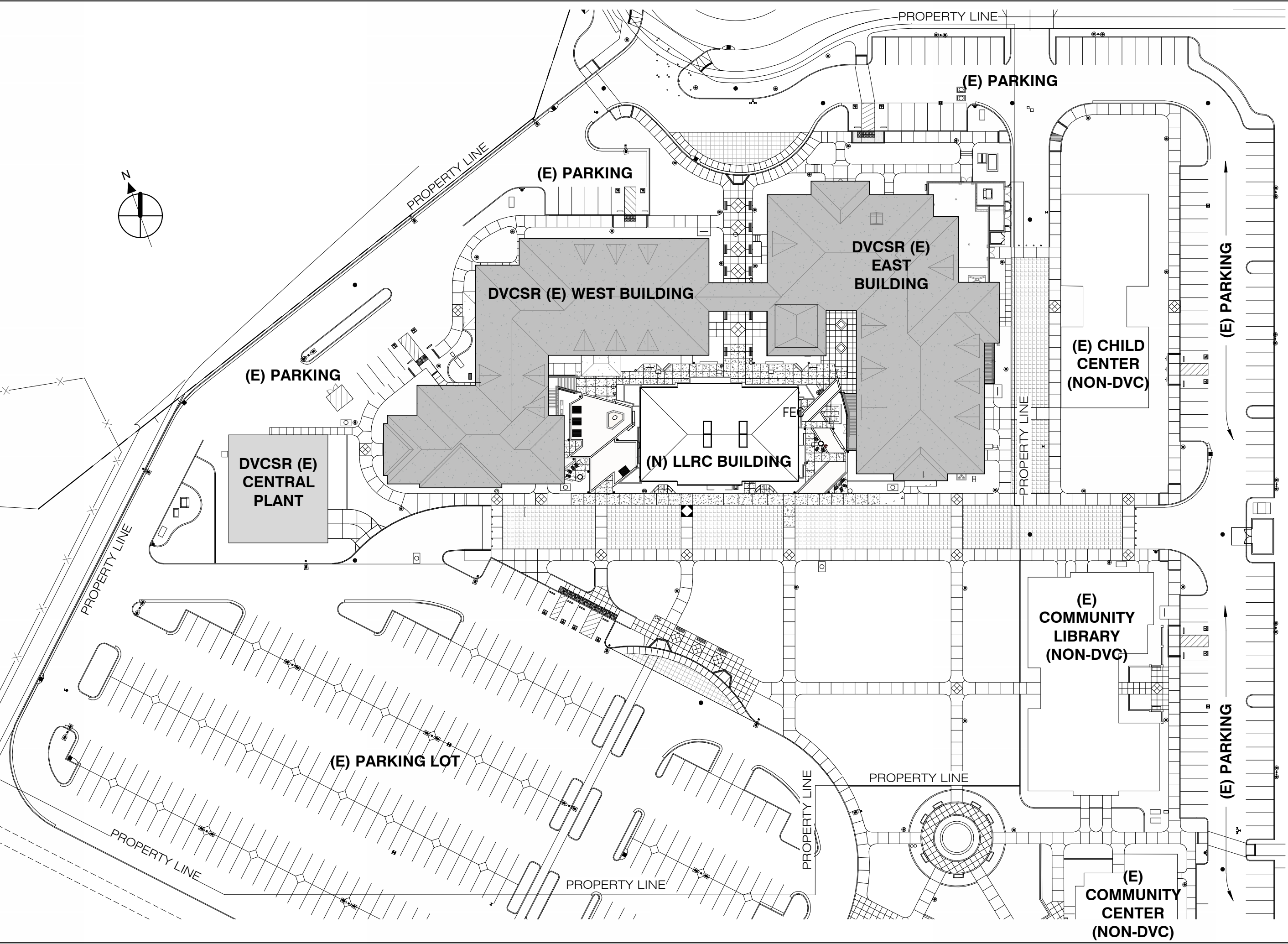
PARTIAL LIST OF APPLICABLE STANDARDS

- AISC MANUAL OF STEEL CONSTRUCTION
- ACI 318-14 CODE OF CONCRETE
- NATIONAL REFERENCE STANDARDS
- 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

DIVISION OF THE STATE ARCHITECT REQUIREMENTS

1. ADDENDA AND CHANGES AS PER SECTION 4-338
2. INSPECTOR APPROVED BY DSA
3. INSPECTOR AND CONTINUOUS INSPECTION OF WORK PER SECTION 4-333(B) AND 4-342
4. TESTS AND TESTING LABORATORY PER SECTION 4-335 (OWNER SHALL PAY THE TESTING LABORATORY)
5. SPECIAL INSPECTION PER SECTION 4-333(C)
6. CONTRACTOR SHALL SUBMIT VERIFIED REPORT PER SECTION 4-336 & 4-343(C)
7. ADMINISTRATION OF CONSTRUCTION PER PART 1, TITLE 24, C.C.R.
8. DUTIES OF ARCHITECT, STRUCTURAL ENGINEER, OR PROFESSIONAL ENGINEER PER SECTION 4-333(A) AND 4-341
9. DUTIES OF CONTRACTOR PER SECTION 4-343
10. VERIFIED REPORTS PER SECTION 4-336
11. A COPY OF PART 1 & 2 OF TITLE 24, SHALL BE KEPT AND AVAILABLE IN FIELD DURING CONSTRUCTION.
12. DSA SHALL BE NOTIFIED ON START OF CONSTRUCTION PER SECTION 4-331.
13. SUPERVISION BY DSA PER SECTION 4-343
14. DSA IS NOT SUBJECT TO ARBITRATION.

CAMPUS MAP



BID ALTERNATES

ADD ALTERNATE 1. ROUND STONE FOUNTAIN BETWEEN LIBRARY RESOURCE CENTER AND EXISTING EAST BUILDING -INFRASTRUCTURE TO FOUNTAIN TO BE PART OF BASE BID.

PRIOR DSA APPLICATION NUMBERS

- ALL PROJECTS LISTED HAVE BEEN CERTIFIED:
1. SITE IMPROVEMENTS: 01-106062
 2. EDUCATIONAL BUILDINGS 7 CENTRAL PLANT: 01-105719

DEFERRED SUBMITTALS

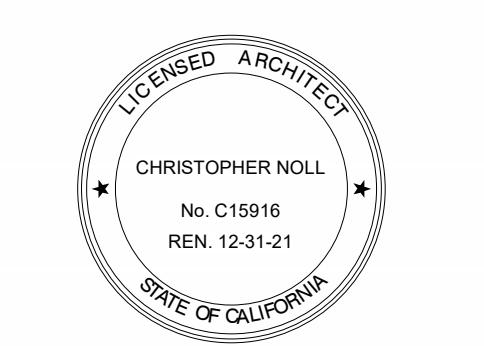
1. STOREFRONTS
2. GLASS SKYLIGHTS

APPROVALS

NOLL & TAM ARCHITECTS

729 Heinz Avenue
Berkeley, CA 94710
tel 510.542.2200
fax 510.542.2201

ARCHITECTS SEAL



DVC SAN RAMON CAMPUS EXPANSION & RENOVATION

1690 Watermill Rd.
San Ramon, CA 94582
D-4002 - INCREMENT 2 5/30/2019

ARCHITECT'S STATEMENT

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. 01-117630 File No. 1-C1)

- The drawings or sheets listed on the cover or sheet index
 - 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 with my plans and specifications and is acceptable for incorporation into the construction of this project.

The Statement of General Conformance "shall not be construed as relieving me of my rights, duties, and responsibilities under Sections 17302 and 81138 of the Education Code and Sections 4-336, 4-341 and 4-344" of the Title 24, Part 1, (Title 24, Part 1, Section 4-317 (b))

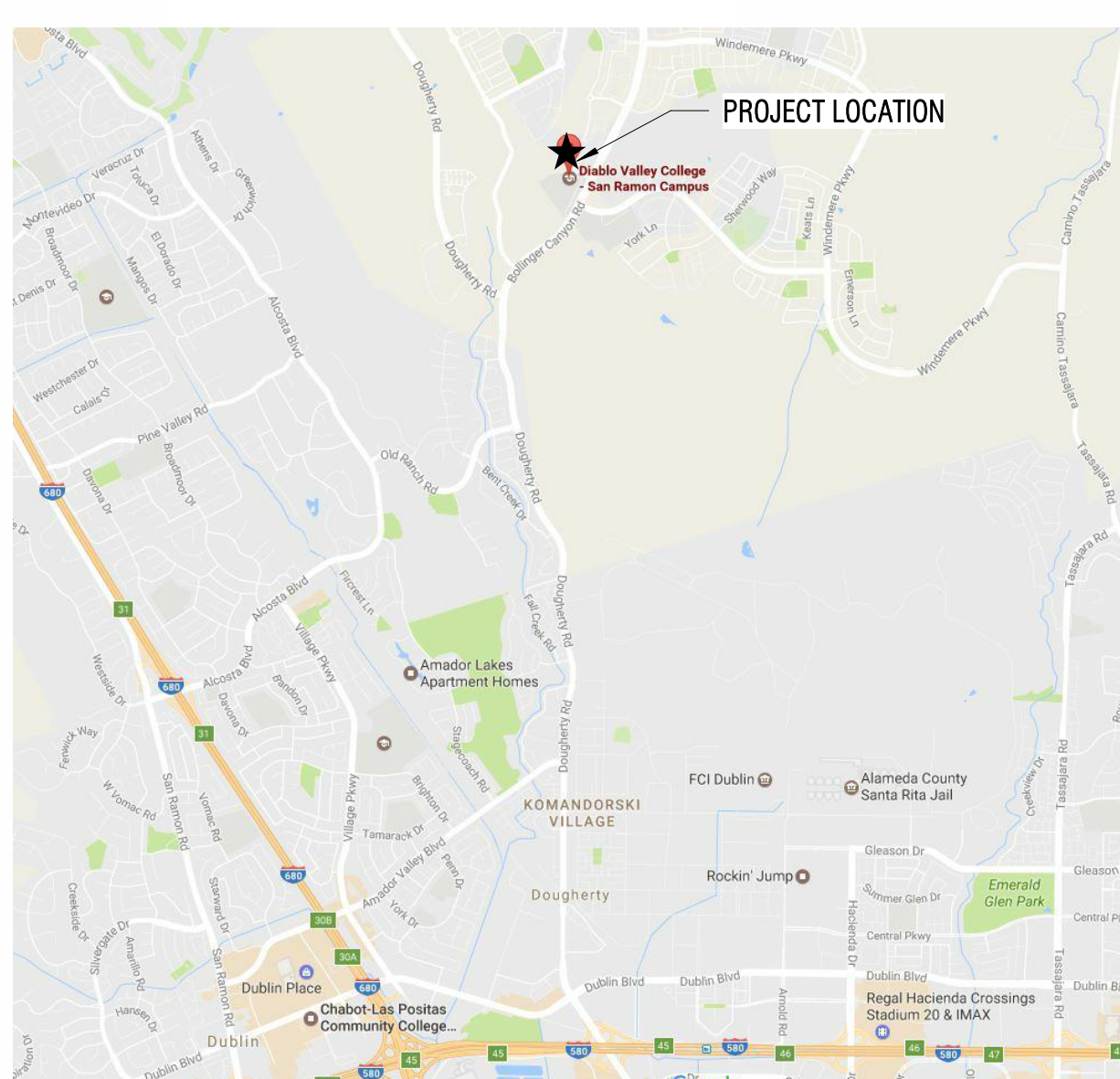
- I certify that:
- All drawings or sheets listed on the cover or index sheet
 - This drawing or page
 - is/are in general conformance and
 - have been coordinated

Signature _____ Date 11/30/18

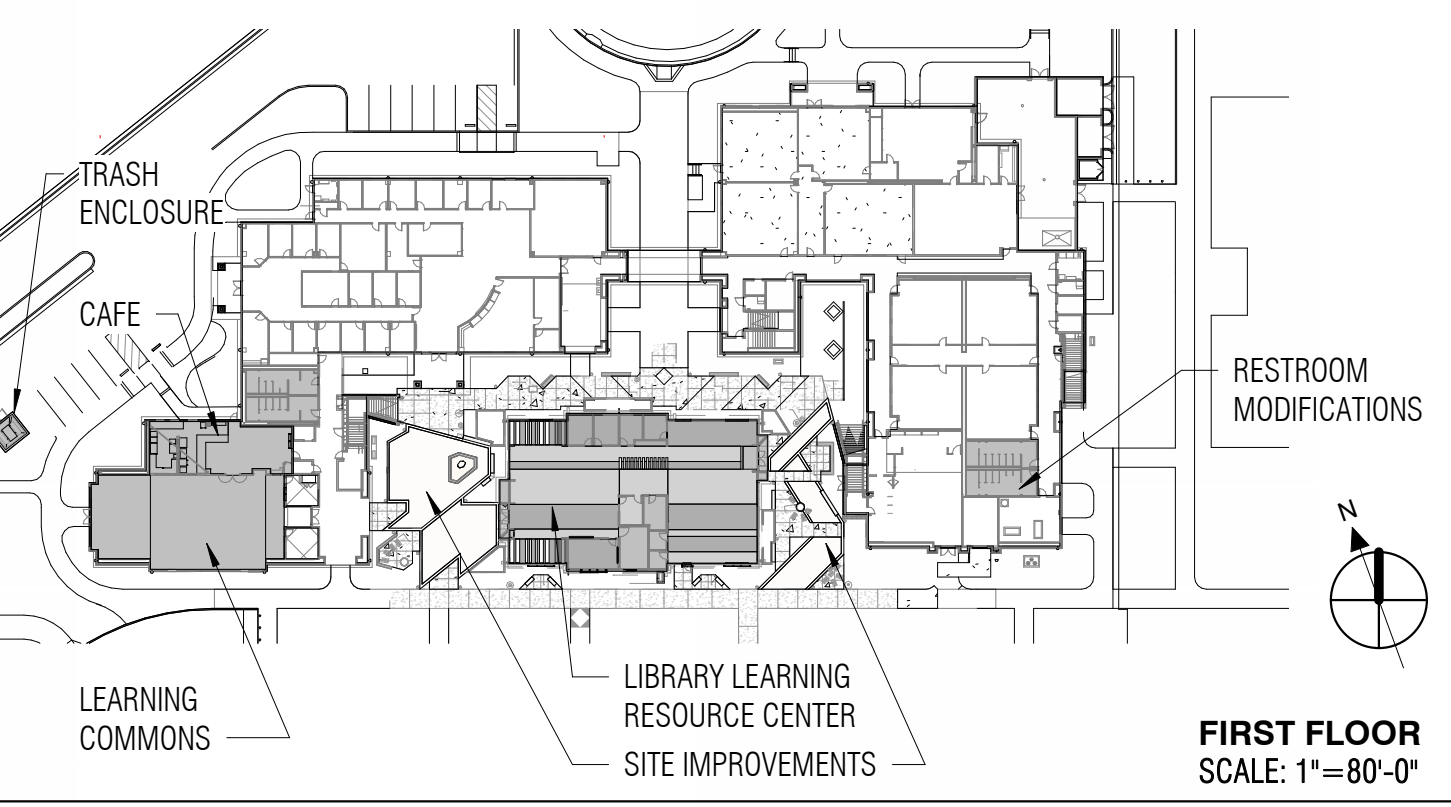
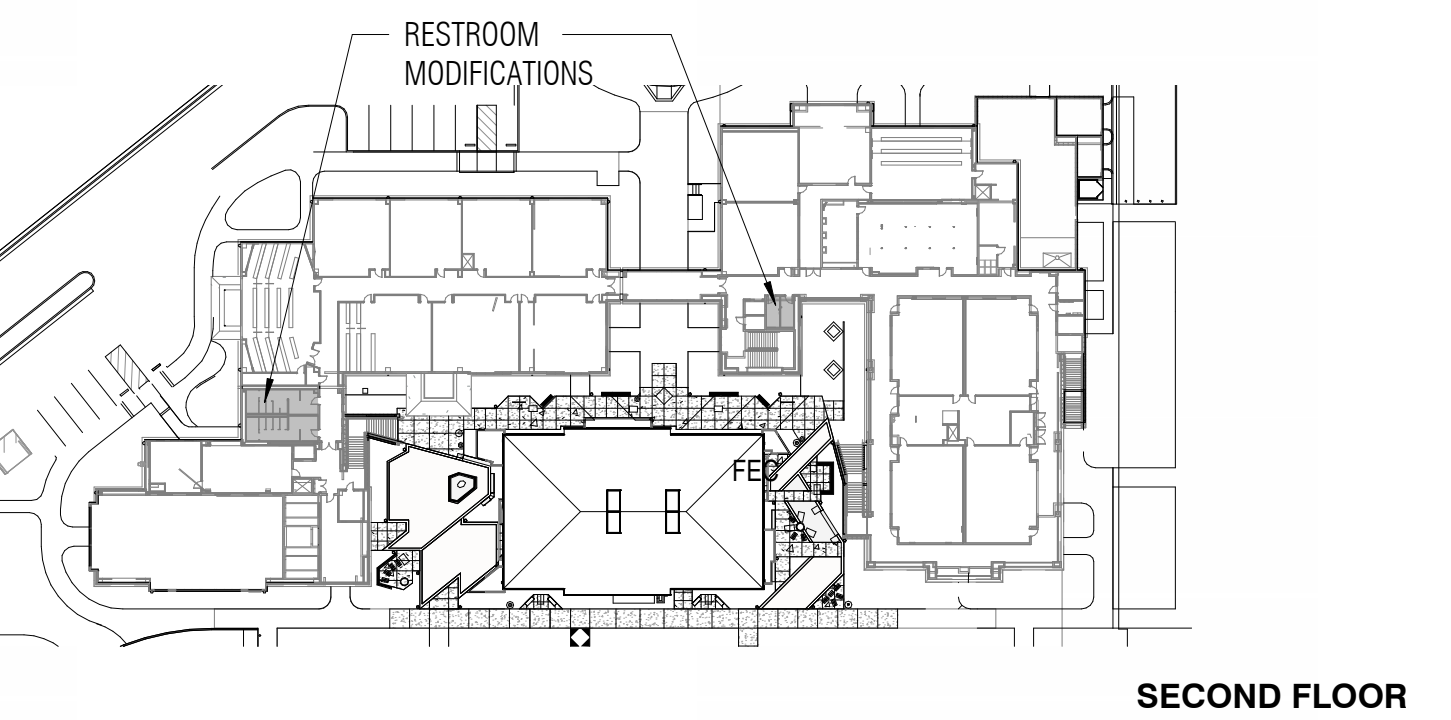
Architect or Engineer designated to be in general responsible charge

Chris Noll, Principal
Print Name
15916 License Number
12/31/19 Expiration Date

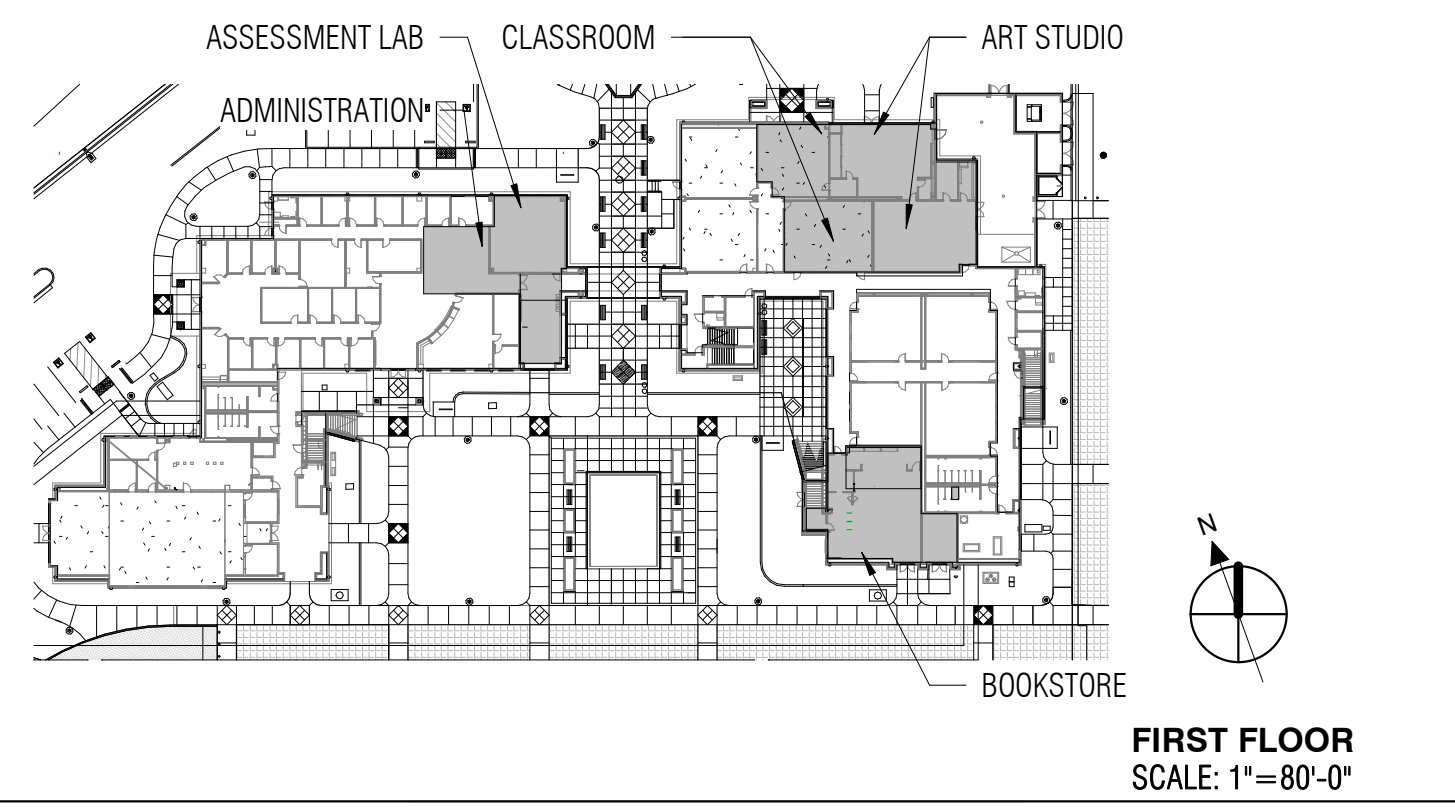
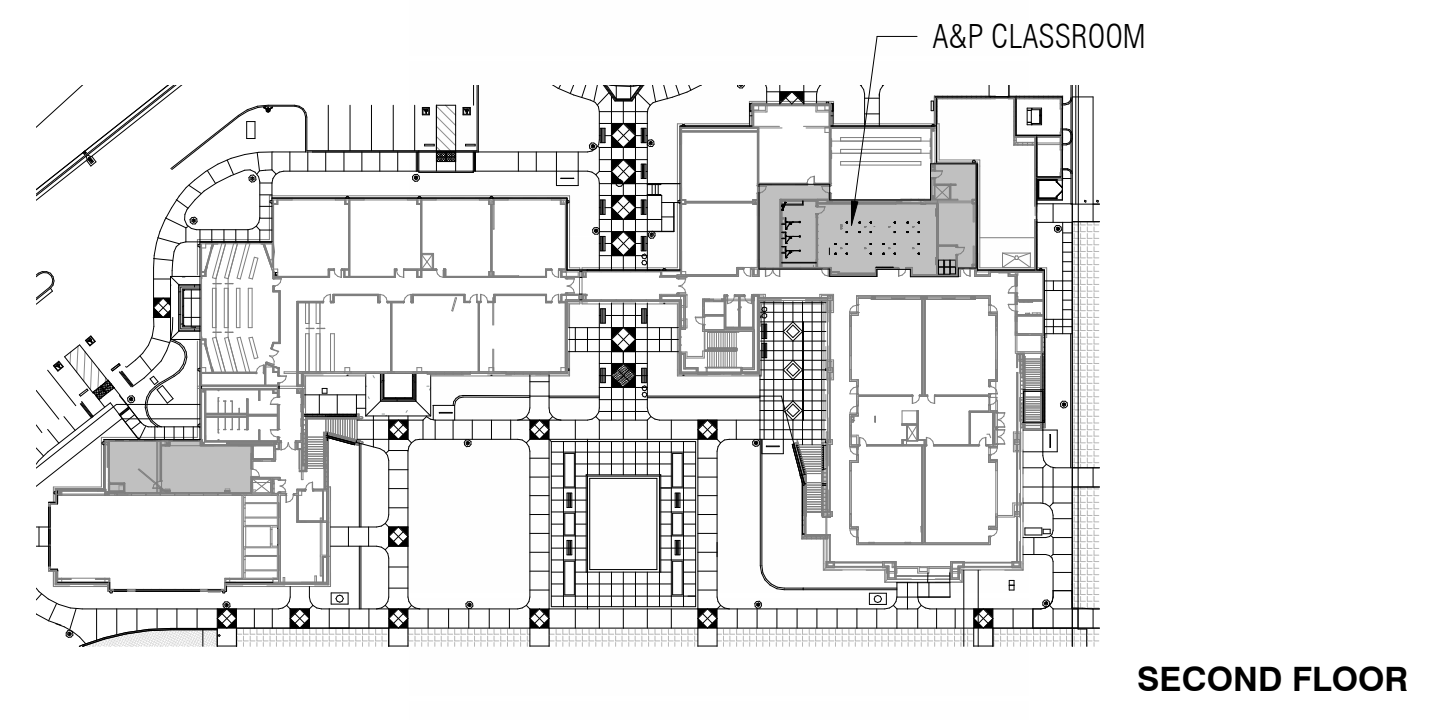
LOCAL STREET MAP



PROJECT SCOPE: INCREMENT 2



PROJECT SCOPE: INCREMENT 1



PROJECT SUMMARY

CONTRA COSTA COMMUNITY COLLEGE DISTRICT PROPOSES IMPROVEMENTS OCCURRING IN TWO INCREMENTS AT ITS DIABLO VALLEY COLLEGE IN SAN RAMON. THE WORK INCLUDES RENOVATIONS TO PORTIONS OF THE EXISTING INSTRUCTIONAL BUILDINGS AS WELL AS THE CONSTRUCTION OF A NEW 6600 SF LIBRARY LEARNING RESOURCE CENTER AND SITE IMPROVEMENTS. THE CONSTRUCTION OF INCREMENT 1 WORK IS SLATED AT THE START OF THE 2019 CALENDAR YEAR. INCREMENT 2 WORK WILL BEGIN LATER IN 2019.

- INCREMENT 1 WORK INCLUDES, BUT IS NOT LIMITED TO:**
1. RENOVATIONS TO CLASSROOMS AS INDICATED IN THE INCREMENT 1 PROJECT SCOPE DIAGRAMS.
 2. RENOVATIONS AT EXISTING EAST BUILDING FOR RELOCATION OF BOOKSTORE
 3. MODIFICATIONS TO EXISTING WALLS, NEW INTERIOR WALLS, DOORS, INTERIOR GLAZING, CEILING, AND FINISHES, COMPLIANCE WITH CURRENT LIFE SAFETY CODES, AND MODIFICATION TO BUILDING SYSTEMS (HVAC, ELECTRICAL, LIGHTING, FIRE ALARM, FIRE PROTECTION, PLUMBING, AND TELECOMMUNICATIONS) FOR THE RENOVATION SCOPE.
 4. PARKING LOT AREA MODIFICATIONS

- INCREMENT 2 WORK INCLUDES BUT IS NOT LIMITED TO:**
1. RENOVATIONS AT THE LEARNING COMMONS
 2. RENOVATIONS AT THE EXISTING WEST BUILDING FOR A NEW CAFE INCLUDING SITE IMPROVEMENTS FOR A GREASE INTERCEPTOR AND TRASH/RECYCLE/COMPOST ENCLOSURE AS INDICATED IN THE INCREMENT 2 PROJECT SCOPE DIAGRAM.
 3. ACCESSIBILITY UPGRADES TO EXISTING RESTROOMS AS NEEDED.
 4. CONSTRUCTION OF A NEW 6600 SF BUILDING - LIBRARY LEARNING RESOURCE CENTER
 5. SITE IMPROVEMENTS AT THE NEW BUILDING INCLUDING SUBGRADE PREPARATION, REROUTING OF EXISTING UNDERGROUND UTILITIES, EXTENSION OF UTILITIES TO SERVE THE NEW BUILDING, AND LANDSCAPE IMPROVEMENTS.
 6. NO PARKING IS PROPOSED AS PART OF INCREMENT 2

CONTRACTOR WILL BE RESPONSIBLE FOR PREPPING ALL AREAS FOR NEW SCOPE OF WORK INCLUDING PATCHING AND REPAIRING EXISTING CONDITIONS WHERE AFFECTED BY ANY AND ALL DEMOLITION WORK.

THE WORK TO BE PERFORMED UNDER THIS CONTRACT INCLUDES THE FURNISHING OF ALL LABOR, MATERIALS, EQUIPMENT, TRANSPORTATION, SERVICES, PERMITS, TEMPORARY CONTROLS AND CONSTRUCTION FACILITIES, AND ALL GENERAL CONDITIONS, SEISMIC REQUIREMENTS, GENERAL REQUIREMENTS AND INCIDENTALS REQUIRED TO COMPLETE THE WORK ON THE PROJECT IN ITS ENTIRETY AS DESCRIBED IN THE CONTRACT DOCUMENTS.

PROJECT TITLE

CONTRA COSTA CCD D-4002 DVC SAN RAMON CAMPUS EXPANSION & RENOVATION

1690 Watermill Rd.
San Ramon, CA 94582

RECORD SET:

THESE DRAWINGS HAVE BEEN PREPARED FROM ADDENDUMS, CCD'S, ASIS AND SELECT RFI'S OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM. ONLY A SELECT FEW AS-BUILTS WERE SUBMITTED.

ISSUE TITLE

INCREMENT 2

ISSUE DATE 5/30/2019

NOLL & TAM JOB NUMBER 21630

REVISIONS: NO DATE | DESCRIPTION

PROJECT TEAM

| | | | | | | | | |
|--|--|---|--|---|---|--|--|--|
| Cost Estimator macks 1900 Powell Street Suite 470 Emeryville CA 94609 Tel: (510) 595-3020 | Food Service Design RAS Design 649 Main Street Martinez, CA 94553 Tel: (925) 372-0222 | Telecom CMSalter 130 Sutter St, Flr 5 San Francisco, CA 94104 Tel: (415)470-5436 | MEP Interface Engineering Inc. 135 Main St. Ste 400 San Francisco, CA 94105 Tel: (415) 489-7240 | Structural Walter P. Moore and Associates Inc. 596 Market Street Suite 2130 San Francisco CA 94105 Tel: (415) 963-6303 | Landscape Merrill Morris Partners, Inc. 249 Front Street San Francisco, CA 94111 Tel: (415) 291-8960 | Civil BKF Engineers 1646 N. California Blvd, #400 Walnut Creek, CA 94596 Tel: (925) 940-2200 | Architect Noll & Tam Architects 729 Heinz Ave Berkeley, CA 94710 Tel: 510.542.2200 Fax: 510.542.2201 | Client Contra Costa Community College District 500 Court St. Martinez, CA 94553 Tel: (925) 299-6842 |
|--|--|---|--|---|---|--|--|--|

SHEET TITLE

COVER SHEET

SHEET NUMBER

GO.00.2

DSA GENERAL NOTES

- ALL WORK SHALL CONFORM TO 2016 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTORS DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE DSA. LIST DEFERRED SUBMITTAL ITEMS FOR THIS PROJECT.
CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
A 'DSA CERTIFIED' PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(c), PART 1, TITLE 24, CCR)
GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

GENERAL NOTES

- ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE PROJECT SPECIFICATIONS.
ALL WORK SHALL MEET OR EXCEED THE MINIMUM STANDARDS OF THE MOST CURRENT RULES AND REGULATIONS OF ALL APPLICABLE STATE AND/OR LOCAL CODES, LAWS, AND ORDINANCES.
INFORMATION CONTAINED WITHIN THESE DOCUMENTS SHALL NOT BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE APPLICABLE CODES.
CONTRACTOR SHALL EXAMINE THE DOCUMENTS AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES WHICH MAY BE FOUND PRIOR TO THE START OF WORK.
CONTRACTOR SHALL REVIEW ALL DOCUMENTS TO COORDINATE W/ THE (E) BLDG CONDITIONS, ANY VARIATIONS AND DISCREPANCIES THAT ARISE IN THIS REVIEW ARE TO BE BROUGHT IMMEDIATELY TO THE ARCHITECT'S ATTENTION.
THE CONTRACTOR AND ALL SUBCONTRACTORS ARE REQUIRED TO VISIT AND INSPECT THE SITE PRIOR TO CONSTRUCTION OR ORDERING ANY MATERIALS.
ALL DETAILS, SCHEDULES, ADDENDA AND SPECIFICATIONS BOUND SEPARATELY ARE A PART OF THE CONTRACT DOCUMENTS.
ITEMS MARKED 'NIC' ARE NOT IN CONTRACT. SUCH ITEMS ARE INCLUDED IN THE DOCUMENTS WHEN CONTRACTOR'S COORDINATION IS REQUIRED OR FOR CLARIFICATION OF PROJECT LIMITS.
DIMENSIONS:
A. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM THE DRAWINGS. IF DIMENSIONS ARE NOT SHOWN AND CANNOT BE DETERMINED FROM LAYOUT CRITERIA PROVIDED, OR IF DISCREPANCIES ARE NOTED, NOTIFY ARCHITECT FOR RESOLUTION.
B. OPENINGS, DOOR DIMENSIONS ARE TO THE FACE OF JAMB, UN. LOCATE UNDIMENSIONED DOORS 4" FROM FINISHED FACE OF INTERSECTING PARTITION TO HINGE EDGE OF DOOR. REFER TO DETAILS FOR LOCATION OF DIMENSIONS OF WINDOWS AND OTHER OPENINGS.
C. ALL DIMENSIONS TO WALLS ARE TO THE FACE OF STUD, FACE OF CONCRETE, OR FACE OF CONCRETE MASONRY, UN.
D. GRID DIMENSIONS ARE TO CENTERLINE OF STRUCTURAL GRID LINE, UN.
E. ITEMS THAT ARE LOCATED ON A GRID LINE OR OTHERWISE LOCATED BY MODULE, MULLION LAYOUT, SCHEDULE, OR DETAIL ARE NOT OTHERWISE DIMENSIONED.
F. ELEVATIONS REFER TO THE TOP OF THE SLAB ON GRADE DATUM. FLOOR & ROOF ELEVATIONS NOTED ARE TO TOP OF CONCRETE SLAB OR STRUCTURAL DECK, UN. BUILDING HEIGHT ELEVATIONS ARE TO TOP OF FRAMING, UN.
G. CEILING HEIGHT DIMENSIONS ARE FROM FINISHED FLOOR TO FINISHED FACE OF CEILING, UN.
H. ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD BY GENERAL CONTRACTOR AND ALL SUBCONTRACTORS PRIOR TO PROCEEDING WITH CONSTRUCTION.
I. COORDINATE WITH EQUIPMENT CONTRACTORS FOR ROUGH-IN DIMENSIONS AND TEMPLATES.
J. ALL DIMENSIONS NOTED 'CLEAR' OR 'CLR' MUST BE STRICTLY MAINTAINED. 'CLEAR' MEANS DIMENSION FROM FACE OF FINISH TO FACE OF FINISH OR OBJECT.
K. ALL DIMENSIONS NOTED 'VERIFY' OR 'VIF' ARE TO BE CHECKED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY VARIANCE FROM THE REQUIRED DIMENSIONS MUST BE BROUGHT IMMEDIATELY TO THE ARCHITECT'S ATTENTION.
L. DIMENSIONS ARE BASED UPON SPECIFIED MATERIALS AND EQUIPMENT. SUBSTITUTIONS MAY EFFECT DIMENSIONS. SUBSTITUTION REQUESTS SHALL INDICATE THE IMPACT OF THE SUBSTITUTIONS UPON DIMENSIONS AND CLEARANCES.
M. DIMENSIONS FOR EXISTING CONDITIONS ARE TO BE FIELD VERIFIED BY CONTRACTOR. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES.
DETAILS MARKED 'TYPICAL' SHALL APPLY IN ALL CASES, UN.
WHERE NO SPECIFIC DETAIL IS SHOWN, THE FRAMING OR CONSTRUCTION SHALL BE IDENTICAL OR SIMILAR TO THAT INDICATED FOR LIKE CASES OF CONSTRUCTION ON THE PROJECT.
EXISTING CONDITIONS TO REMAIN, UNLESS OTHERWISE NOTED. PROTECT ALL (E) BUILDING CONDITIONS TO REMAIN, INCLUDING BUT NOT LIMITED TO WALLS, DOORS, CEILINGS, AND GLAZING.
THE CONTRACTOR SHALL MEET WITH THE ARCHITECT PRIOR TO THE START OF DEMOLITION TO NOTE WHAT ITEMS, IF ANY, ARE TO BE SALVAGED OR REUSED. REFER TO DIVISION 2 OF THE PROJECT SPECIFICATIONS.
THE DRAWINGS INDICATE THE GENERAL EXTENT OF (N) CONSTRUCTION NECESSARY FOR THE WORK, BUT ARE NOT INTENDED TO BE ALL-INCLUSIVE. ALL DEMO AND (N) WORK NECESSARY FOR A FINISHED JOB, IN ACCORDANCE W/ THE INTENTIONS OF THE CONTRACT DOCUMENTS, IS INCLUDED REGARDLESS OF WHETHER SHOWN IN THE CONTRACT DOCUMENTS. THIS IS TO INCLUDE, BUT IS NOT LIMITED TO, SELECTIVE REMOVAL, REPLACEMENT, PATCHING & REPAIR OF (E) ASSEMBLIES AND FINISHES TO MATCH (E) ADJACENT ASSEMBLIES AND FINISHES AS REQUIRED TO CONNECT (N) UTILITIES AND (N) BUILDING ELEMENTS TO (E) BUILDING STRUCTURE AND BUILDING SERVICES.
(E) BUILDING DOCUMENTATION IS BASED ON 'AS-BUILT' DRAWINGS AND OBSERVATIONAL SITE INVESTIGATIONS. ACTUAL BUILT CONDITIONS MAY VARY. CONTRACTOR IS TO USE CAUTION IN DEMOLITION, AND IS TO NOTIFY ARCHITECT IMMEDIATELY IF ANY VARIATIONS OR DISCREPANCIES ARE UNCOVERED.
ALL WORK UNDERSTOOD TO BE (N), NEW WORK UNLESS NOTED AS (E), EXISTING.
ALL WORK SHALL CONFORM TO 2016 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE DSA. LIST DEFERRED SUBMITTAL ITEMS FOR THIS PROJECT.
CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
A 'DSA CERTIFIED' PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK, (SECTION 4-317(c), PART 1, TITLE 24, CCR)
GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

SHEET INDEX

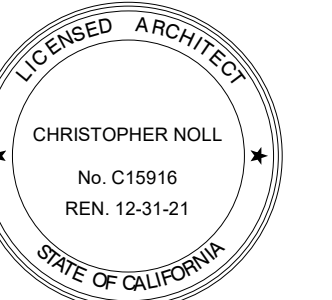
Table with columns for sheet number, title, and description. Includes sections for GENERAL, CIVIL, LANDSCAPE, ARCHITECTURE, FIRE PROTECTION, PLUMBING, MECHANICAL, ELECTRICAL, and TECHNOLOGY. Includes revision callouts like 'ADD' and 'REV'.

APPROVALS

NOLL & TAM ARCHITECTS

729 Heinz Avenue Berkeley, CA 94710 tel 510.542.2200 fax 510.542.2201

ARCHITECTS SEAL



PROJECT TITLE

CONTRA COSTA CCD D-4002 DVC SAN RAMON CAMPUS EXPANSION & RENOVATION

1690 Watermill Rd. San Ramon, CA 94582

RECORD SET:

THESE DRAWINGS HAVE BEEN PREPARED FROM ADDENDUMS, CCD'S, ASIS AND SELECT RFI'S OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM. ONLY A SELECT FEW AS-BUILTS WERE SUBMITTED.

ISSUE TITLE

INCREMENT 2

ISSUE DATE 5/30/2019

NOLL & TAM JOB NUMBER 21630

Table with columns for REVISIONS, DATE, and DESCRIPTION. Includes revision 8/27/19 INC 2 - ADDENDUM 03 and 10/15/19 INC 2 - ADDENDUM 03 REV 11/7/20 CITY.

SHEET TITLE

GENERAL NOTES, SHEET INDEX

SHEET NUMBER

G0.01.2

CALGREEN COMPLIANCE CHECKLIST

NOTE: CALGREEN IS APPLICABLE TO NEW LIBRARY LEARNING RESOURCE CENTER BUILDING ONLY.

STATE OF CALIFORNIA – DEPARTMENT OF GENERAL SERVICES – BUILDING STANDARDS COMMISSION
CALGreen Verification Guidelines – Mandatory Measures Checklist
 BSC CG-200 (Rev. 12/16) <http://www.bsc.ca.gov/Home/CALGreen.aspx>

CALGREEN VERIFICATION GUIDELINES MANDATORY MEASURES CHECKLIST

Application: This checklist shall be used for nonresidential projects that meet one of the following: new construction, building additions of 1,000 sq. ft. or greater or building alterations with a permit valuation of \$200,000 or more pursuant to CALGreen Section 301.1 AND do not trigger a Tier 1 or Tier 2 requirement.
 Y = Yes (section has been selected and/or included)
 N/A = Not Applicable (Code section does not apply to the project, mainly used for additions and...)
 O = Other (provide explanation)
 [N] = New construction pursuant to Section 301.1
 [A] = Additions and/or alterations pursuant to Section 301.1

| CHAPTER 5 DIVISIONS | SECTION TITLE | CODE SECTION | Y | N/A | O | Plan sheet, Spec or Attach Reference | Explanation |
|--|--|--|---|-----------|---------------------------|---|---|
| DIVISION 5.1 Planning and Design | Mandatory | Storm Water Pollution Prevention w/ subsections | 5.106.1 through 5.106.2 | Y | | Sections 01400 and 01572 | Project SWPPP to be prepared by the contractor. |
| | Mandatory | Short Term Bicycle Parking | 5.106.4.1.1 | | N/A | | No vehicle parking added. |
| | Mandatory | Long Term Bicycle Parking | 5.106.4.1.2 | | N/A | | |
| | | Designated Parking For Clean Air Vehicles | 5.106.5.2 | | N/A | | No vehicle parking added. |
| | | Parking stall marking | 5.106.5.2.1 | | N/A | | |
| | | Single (EV) Charging space requirements [N] | 5.106.5.3.1 | | N/A | | |
| | | Multiple (EV) Charging space requirements [N] | 5.106.5.3.2 | | N/A | | |
| | Mandatory | EV charging space calculation [N] w/exceptions [N] Identification | 5.106.5.3.3 | | N/A | | |
| | | [N] Future charging spaces w/ notes 1-3 | 5.106.5.3.5 | | N/A | | |
| | Mandatory | Light Pollution Reduction [N] w/ exceptions and note | 5.106.8 | Y | | Sheet E0.02.2 | Outdoor luminaire Type 124' complies with Table 5.106.8 |
| Mandatory | Grading and Paving w/exception for Additions and Alterations not altering the drainage path | 5.106.10 | Y | | C3.0, C4.0 | Paving around the proposed building drains away from the structure and is captured by landscaping, water collection and disposal systems, french drains, and water retention gardens. | |
| DIVISION 5.2 Energy Efficiency | Mandatory | Meet the minimum Energy Efficiency Standard | 5.201.1 | Y | | Sheets E0.03.2, E0.04.2, E0.05.2, M0.05.2 | Lighting is compliant with Title 24 energy standards. Mechanical Equipment is in compliance with T24 Energy Efficiency Standards. |
| | DIVISION 5.3 Water Efficiency and Conservation | Mandatory | Separate Meters (new buildings or additions > 50,000 SF that consume more than 100 gal/day) | 5.303.1.1 | | N/A | |
| Mandatory | | Separate Meters (for tenants in new buildings or additions that consume more than 1,000 gal/day) | 5.303.1.2 | | N/A | | |
| Mandatory | | Water closets shall not exceed 1.28 gallons per flush | 5.303.3.1 | | N/A | | |
| | | Wall-mounted urinals shall not exceed 0.125 gpf | 5.303.3.2.1 | | N/A | | |
| | | Floor-mounted urinals shall not exceed 0.5 gpf | 5.303.3.2.2 | | N/A | | |
| | | Single showerhead shall have maximum flow rate of 2.0 gpm (gallons per minute) at 80 psi | 5.303.3.3.1 | | N/A | | |
| | | Multiple showerheads serving one shower shall have a combined flow rate of 2.0 gpm at 80 psi | 5.303.3.3.2 | | N/A | | |
| | | Nonresidential lavatory faucets | 5.303.3.4.1 | | N/A | | |
| | | Kitchen faucets | 5.303.3.4.2 | Y | | Refer to food service drawings | |
| | | Wash basins | 5.303.3.4.3 | | N/A | | |
| | Metering faucets | 5.303.3.4.4 | | N/A | | | |
| | Metering faucets for wash fountains | 5.303.3.4.5 | | N/A | | | |
| DIVISION 5.4 Material Conservation and Resource Efficiency | Mandatory | Food waste disposers w/outlet | 5.303.4.1 | | N/A | | |
| | Mandatory | Areas of additions and alterations | 5.303.5 | | N/A | | |
| | Mandatory | Standards for plumbing fixtures and fittings | 5.303.6 | Y | | Sheet G0.00.2 | N/A FOR DSA-SS |
| | Mandatory | Outdoor water use in landscape areas equal to or greater than 500 square feet | 5.304.2 | | N/A | | N/A FOR DSA-SS |
| | Mandatory | Outdoor water use in rehabilitated landscape projects with areas equal to or greater than 2,500 square feet | 5.304.3 | | N/A | | N/A FOR DSA-SS |
| | Mandatory | Outdoor water use in landscape areas of 2,500 square feet or less | 5.304.4 | | N/A | | N/A FOR DSA-SS |
| | Mandatory | Graywater or rainwater use in landscaped areas | 5.304.5 | | N/A | | N/A FOR DSA-SS |
| | Mandatory | Outdoor potable water use in landscape areas. | 5.304.6 | | N/A | | Irrigation connects to existing system which uses recycled water. |
| | Mandatory | Weather Protection | 5.407.1 | Y | | A6.21.2 | |
| | | Moisture Control: sprinklers | 5.407.2.1 | Y | | Sheet L3.01.2-L3.05.2 | 5.407.2.1 Landscape irrigation systems do not spray on structures. (spec) Bubblers and subsurface drip system are installed. 5.407.2.2.1... |
| Moisture Control: Exterior door protection | | 5.407.2.2.1 | Y | | A2.31.2 | | |
| Moisture Control: Flashing | | 5.407.2.2.2 | Y | | A6.21.2, A6.41.2, A6.61.2 | | |
| Mandatory | | Construction waste management-comply with either: sections 5.408.1.1, 5.408.1.2, 5.408.1.3 or more stringent local ordinance | 5.408.1.1, 5.408.1.2, 5.408.1.3 | Y | | Section 01505 | |
| | | Construction waste management: Documentation whotes | 5.408.1.4 | | N/A | | |
| Mandatory | | Universal Waste [A] | 5.408.2 | | N/A | | N/A FOR DSA-SS |
| Mandatory | | Excavated soil and land clearing debris w/ exception and notes | 5.408.3 | | N/A | | N/A FOR DSA-SS |
| Mandatory | | Recycling by Occupants w/ exception | 5.410.1 | | | 1/A4.31.2, A2.39.2 | Existing and new trash enclosures provide area for collection bins. Recycling bins to be provided in renovated Learning Commons. |
| | | Recycling by Occupants: Additions w/ exception | 5.410.1.1 | | | | |
| Mandatory | Recycling by Occupants: Sample ordinance | 5.410.1.2 | | | | | |
| | Commissioning new buildings (< 10,000 SF) [N] w/exceptions and notes | 5.410.2 | | N/A | | | |
| | Owner's or Owner representative's Project Requirements (OPR) [N] | 5.410.2.1 | | | | | |
| | Basis of Design (BOD) [N] | 5.410.2.2 | | | | | |
| | Commissioning Plan [N] | 5.410.2.3 | | | | | |
| | Functional Performance Testing [N] | 5.410.2.4 | | | | | |
| | Documentation and Training [N] | 5.410.2.5 | | | | | |
| | Systems Manual [N] | 5.410.2.5.1 | | | | | |
| | Systems Operation Training [N] | 5.410.2.5.2 | | | | | |
| | Commissioning Report [N] | 5.410.2.6 | | | | | |
| Mandatory | Testing and adjusting for new buildings < 10,000 SF or new systems that serve additions or alterations. | 5.410.4 | Y | | Spec Section 23 05 03 | | |
| | System Testing Plan for HVAC, Lighting, water heating, renewable energy, landscape irrigation and water reuse. | 5.410.4.2 | | | | | |
| | Procedures for testing and adjusting | 5.410.4.3 | | | | | |
| | HVAC balancing | 5.410.4.3.1 | | | | | |
| | Reporting for testing and adjusting | 5.410.4.4 | | | | | |
| Operation and Maintenance (O&M) Manual | 5.410.4.5 | | | | | | |
| Inspection and reports | 5.410.4.5.1 | | | | | | |

| CHAPTER 5 DIVISIONS | SECTION TITLE | CODE SECTION | Y | N/A | O | Plan sheet, Spec or Attach Reference | Explanation |
|------------------------------------|--|-----------------------------|-----------|-----|-----|---|---|
| DIVISION 5.5 Environmental Quality | Mandatory | Fireplaces | 5.503.1 | | N/A | | No fireplaces in project. |
| | Mandatory | Woodstoves | 5.503.1.1 | | N/A | | No woodstoves in project. |
| Mandatory | Temporary ventilation | 5.504.1 | | N/A | | | |
| | Covering of ducts openings and protection of mechanical equipment during construction | 5.504.3 | Y | | | Plan sheet M0.01.2 | Green Building Requirements Notes. |
| Mandatory | Adhesives, sealants and caulks | 5.504.4.1 | Y | | | Section 07 92 00 Part 1.3 | Spec references CALGreen compliance. |
| | Paints and coatings | 5.504.4.3 | Y | | | Section 09 90 00 Part 1.3 | Spec references CALGreen compliance. |
| Mandatory | Aerosol paints and coatings | 5.504.4.3.1 | | | | | |
| | Aerosol paints and coatings: Verification | 5.504.4.3.2 | | | | | |
| Mandatory | Carpet systems | 5.504.4.4 | Y | | | Section 09 68 13 Part 1.3 | Spec references CALGreen compliance. |
| | Carpet cushion | 5.504.4.4.1 | | | | | |
| Mandatory | Carpet adhesive | 5.504.4.4.2 | | | | | |
| | Composite wood products | 5.504.4.5 | Y | | | Section 06 20 00 Part 1.3 | Spec references CALGreen compliance. |
| Mandatory | Composite wood products: Documentation | 5.504.4.5.3 | | | | | |
| | Resilient flooring systems | 5.504.4.6 | Y | | | Section 09 65 00 Part 1.3 | Spec references CALGreen compliance. |
| Mandatory | Resilient flooring: Verification of compliance | 5.504.4.6.1 | | | | | |
| | Filters w/ exceptions | 5.504.5.3 | Y | | | Plan Sheet M0.05.2 and Spec Section 23 40 00 | |
| Mandatory | Filters: Labeling | 5.504.5.3.1 | Y | | | Spec Section 23 40 00 | |
| | Environmental tobacco smoke (ETS) control | 5.504.7 | Y | | | https://www.dvc.ed.ucommunication/policies/collegewide/smoking.html | Smoking, smoking substitutes, smoke inducing devices, and vaping are all prohibited on all college property per owner's policy. |
| Mandatory | Indoor moisture control | 5.505.1 | Y | | | Plan Sheet M0.03.2 | Ventilation requirements. |
| | Outside air delivery | 5.505.1 | Y | | | Plan Sheet M0.03.2 | Ventilation requirements. |
| Mandatory | Carbon dioxide (CO2) monitoring | 5.506.2 | Y | | | Plan Sheets M2.31.2 and M6.01.2 | Mechanical plan and control diagrams. |
| | Acoustical control w/ exception | 5.507.4 | | N/A | | | |
| Mandatory | Exterior noise transmission, prescriptive method w/ exceptions | 5.507.4.1 | | N/A | | | |
| | Noise exposure where noise contours are not readily available | 5.507.4.1.1 | | N/A | | | |
| Mandatory | Performance method | 5.507.4.2 | | N/A | | | |
| | Site features | 5.507.4.2.1 | | N/A | | | |
| Mandatory | Documentation of compliance | 5.507.4.2.2 | | N/A | | | |
| | Interior sound transmission w/ note | 5.507.4.3 | | N/A | | | |
| Mandatory | Ozone depletion and greenhouse gas reductions | 5.508.1 | Y | | | Plan Sheet M0.01.2 | |
| | Chlorofluorocarbons (CFCs) | 5.508.1.1 | | | | | |
| Mandatory | Halons | 5.508.1.2 | | | | | |
| | Supermarket refrigerant leak reduction for retail food stores 8,000 square feet or more sections 5.508.2 through 5.508.2.6.3 | 5.508.2 through 5.508.2.6.3 | | N/A | | | Food store conditioned area is less than 8,000 square feet. |

END OF MANDATORY PROVISIONS

Documentation Author's /Responsible Designer's Declaration Statement Mandatory: I attest that this mandatory provisions checklist is accurate and complete.

Signature: _____

Company: Noll & Tam Date: 05/30/2019

Address: 729 Heinz Avenue #7 License: C15916

City/State/Zip: Berkeley, CA 94710

ENERGY COMPLIANCE CHECKLIST

APPROVALS



2016 ENERGY CODE - CERTIFICATES OF COMPLIANCE CHECKLIST

| PRESCRIPTIVE METHOD (For Performance Method, use Form DSA 403-B) | |
|---|--|
| Energy Forms and Worksheets to be included in Title 24 Report and Plans | |
| Check the appropriate boxes for all required forms included in this DSA submittal | |
| Key: R = Report Required P = Copy of Form Required on Plans | |
| DESIGN REVIEW | <input type="checkbox"/> R <input type="checkbox"/> P <input checked="" type="checkbox"/> NRCC-CXR-01-E Cx Design Review Kickoff |
| | <input type="checkbox"/> R <input type="checkbox"/> P <input checked="" type="checkbox"/> NRCC-CXR-02-E Cx Construction Documents – General |
| | <input type="checkbox"/> R <input type="checkbox"/> P <input checked="" type="checkbox"/> NRCC-CXR-03-E Cx Construction Documents – Simple HVAC |
| | <input type="checkbox"/> R <input type="checkbox"/> P <input checked="" type="checkbox"/> NRCC-CXR-04-E Cx Construction Documents – Complex HVAC |
| ENVELOPE | <input type="checkbox"/> R <input type="checkbox"/> P <input checked="" type="checkbox"/> NRCC-ENV-01-E Envelope Component Approach |
| | <input type="checkbox"/> R <input checked="" type="checkbox"/> NRCC-ENV-02-E Fenestration Component Approach |
| | <input type="checkbox"/> R <input type="checkbox"/> P <input checked="" type="checkbox"/> NRCC-ENV-03-E Solar Reflective Index (SRI) Calculation Worksheet |
| | <input type="checkbox"/> R <input checked="" type="checkbox"/> NRCC-ENV-04-E Envelope - Daylit Zone Worksheet |
| MECHANICAL | <input type="checkbox"/> R <input type="checkbox"/> P <input checked="" type="checkbox"/> NRCC-ENV-05-E Fenestration Certificate Label |
| | <input type="checkbox"/> R <input type="checkbox"/> P <input checked="" type="checkbox"/> NRCC-ENV-06-E Area Weighted Average Calculations Worksheet |
| | <input type="checkbox"/> R <input type="checkbox"/> P <input checked="" type="checkbox"/> NRCC-MCH-01-E Mechanical Systems |
| | <input type="checkbox"/> R <input checked="" type="checkbox"/> NRCC-MCH-02-E HVAC System Requirements |
| INDOOR LIGHTING | <input type="checkbox"/> R <input type="checkbox"/> P <input checked="" type="checkbox"/> NRCC-MCH-03-E Mechanical Ventilation and Reheat |
| | <input type="checkbox"/> R <input type="checkbox"/> P <input checked="" type="checkbox"/> NRCC-MCH-04-E Maximum Cycles of Concentration Worksheet |
| | <input type="checkbox"/> R <input type="checkbox"/> P <input checked="" type="checkbox"/> NRCC-MCH-07-E Fan Power Consumption |
| | <input type="checkbox"/> R <input type="checkbox"/> P <input checked="" type="checkbox"/> NRCC-MCH-04-E Required Acceptance Tests |
| OUTDOOR LIGHTING | <input type="checkbox"/> R <input type="checkbox"/> P <input checked="" type="checkbox"/> NRCC-MCH-05-E Requirements for Packaged Single Zone Units |
| | <input type="checkbox"/> R <input type="checkbox"/> P <input checked="" type="checkbox"/> NRCC-LTI-01-E Indoor Lighting |
| | <input type="checkbox"/> R <input type="checkbox"/> P <input checked="" type="checkbox"/> NRCC-LTI-02-E Indoor Lighting Controls |
| | <input type="checkbox"/> R <input checked="" type="checkbox"/> NRCC-LTI-03-E Indoor Lighting Power Allowance |
| SOLAR | <input type="checkbox"/> R <input type="checkbox"/> P <input checked="" type="checkbox"/> NRCC-LTI-04-E Tailored Method |
| | <input type="checkbox"/> R <input type="checkbox"/> P <input checked="" type="checkbox"/> NRCC-LTI-05-E Line-Voltage Track Lighting Worksheet |
| | <input type="checkbox"/> R <input type="checkbox"/> P <input checked="" type="checkbox"/> NRCC-LTI-06-E Indoor Lighting Existing Conditions |
| | <input type="checkbox"/> R <input type="checkbox"/> P <input checked="" type="checkbox"/> NRCC-LTO-01-E Outdoor Lighting |
| SOLAR | <input type="checkbox"/> R <input type="checkbox"/> P <input checked="" type="checkbox"/> NRCC-LTO-02-E Outdoor Lighting Control |
| | <input type="checkbox"/> R <input checked="" type="checkbox"/> NRCC-LTO-03-E Outdoor Lighting Power Allowance |
| | <input type="checkbox"/> R <input type="checkbox"/> P <input checked="" type="checkbox"/> NRCC-LTO-04-E Outdoor Lighting Existing Conditions |
| | <input type="checkbox"/> R <input checked="" type="checkbox"/> NRCC-SRA-01-E Solar Ready Areas |
| SOLAR | <input type="checkbox"/> R <input checked="" type="checkbox"/> NRCC-SRA-02-E Minimum Solar Zone Area Worksheet |
| | <input type="checkbox"/> R <input type="checkbox"/> NRCC-STH-01-E OG 100 Solar Water Heating Worksheet |

DSA 403-A (rev 03-03-17) Page 1 of 2

2016 ENERGY CODE - CERTIFICATES OF COMPLIANCE CHECKLIST

| Energy Forms and Worksheets to be included in Title 24 Report and Plans | |
|---|---|
| Check the appropriate boxes for all required forms included in this DSA submittal | |
| Key: R = Report Required P = Copy of Form Required on Plans | |
| SIGN LIGHTING | <input type="checkbox"/> R <input type="checkbox"/> P <input checked="" type="checkbox"/> NRCC-LTS-01-E Sign Lighting |
| | <input type="checkbox"/> R <input type="checkbox"/> P <input checked="" type="checkbox"/> NRCC-PRC-01-E Process Compliance Forms and Worksheets |
| COVERED PROCESSES | <input type="checkbox"/> R <input type="checkbox"/> P <input checked="" type="checkbox"/> NRCC-PRC-02-E Garage Exhaust |
| | <input type="checkbox"/> R <input type="checkbox"/> P <input checked="" type="checkbox"/> NRCC-PRC-03-E Commercial Kitchen Requirements |
| | <input type="checkbox"/> R <input type="checkbox"/> P <input checked="" type="checkbox"/> NRCC-PRC-04-E Computer Room Requirements |
| | <input type="checkbox"/> R <input type="checkbox"/> P <input checked="" type="checkbox"/> NRCC-PRC-05-E Commercial Refrigeration |
| | <input type="checkbox"/> R <input type="checkbox"/> P <input checked="" type="checkbox"/> NRCC-PRC-06-E Refrigerated Warehouse |
| | <input type="checkbox"/> R <input type="checkbox"/> P <input checked="" type="checkbox"/> NRCC-PRC-07-E Refrigerated Warehouse ≥ 3,000 sq. ft. |
| | <input type="checkbox"/> R <input type="checkbox"/> P <input checked="" type="checkbox"/> NRCC-PRC-08-E Refrigerated Warehouses ≥ 3,000 sq. ft. served by same refrigeration system |
| | <input type="checkbox"/> R <input type="checkbox"/> P <input checked="" type="checkbox"/> NRCC-PRC-09-E Laboratory Exhaust |
| | <input type="checkbox"/> R <input type="checkbox"/> P <input checked="" type="checkbox"/> NRCC-PRC-10-E Compressed Air System |
| ELECTRICAL | <input type="checkbox"/> R <input type="checkbox"/> P <input checked="" type="checkbox"/> NRCC-PRC-11-E Process Boiler Requirements |
| | <input type="checkbox"/> R <input type="checkbox"/> P <input checked="" type="checkbox"/> NRCC-PRC-12-E Elevator Lighting and Ventilation Controls |
| | <input type="checkbox"/> R <input type="checkbox"/> P <input checked="" type="checkbox"/> NRCC-ELC-01-E Electrical Power Distribution |
| PLUMBING | <input type="checkbox"/> R <input type="checkbox"/> P <input checked="" type="checkbox"/> NRCC-PLB-01-E Water Heating Systems |
| | <input type="checkbox"/> R <input type="checkbox"/> P <input checked="" type="checkbox"/> NRCC-PLB-01-E Water Heating Systems |

As Professional in General Responsible Charge, I declare that I have reviewed this project plans submittal and affirm that the project plans are in compliance with the requirements of the current Energy Code (Title 24, Part 6), and the documents checked on pages 1 and 2 of this form are included in the project submittal. I further acknowledge that upon installation of equipment and material identified on compliance forms, I will ensure that the appropriate tests are conducted and the associated acceptance forms (see http://www.energy.ca.gov/title24/2016standards/nonresidential_manual.html) are completed, signed, and submitted and that the project construction complies with Energy Efficiency Regulations.

Chris Noll _____ 05/30/19
 Print Name Signature Date

DSA 403-A (rev 03-03-17) Page 2 of 2
 DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA

ENERGY COMPLIANCE SUMMARY

CLIMATE ZONE: 12

PRESCRIPTIVE REQUIREMENTS, CEC 140.3 & CEC TABLE 140.3-B: SEE T24 COMPLIANCE FORMS FOR MORE INFORMATION.

WEST BUILDING:
 NO CHANGE

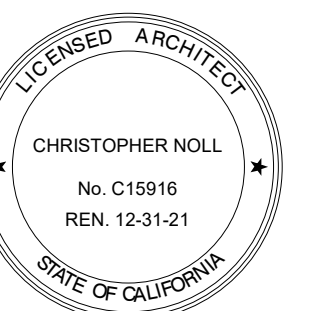
LEARNING LIBRARY RESOURCE CENTER:

| | |
|---------------------------------------|--|
| FENESTRATION MAX U-VALUE: | ENVELOPE: |
| STOREFRONT ≤ 0.41 | WALLS WOOD FRAMED: |
| GLAZED DOORS ≤ 0.45 | WEIGHTED AVERAGE U-FACTOR OF ASSEMBLY ≤ 0.059 |
| SKYLIGHTS, GLASS, CURB-MOUNTED ≤ 0.58 | ROOF/CEILING, WOOD FRAMED: |
| | WEIGHTED AVERAGE U-FACTOR OF ASSEMBLY ≤ 0.034 |
| FENESTRATION MAX SHGC | EXTERIOR DOORS (LESS THAN 50% GLAZED): CEC TABLE 140.3-B |
| STOREFRONT ≤ 0.26 | SWINGING, MAX U-FACTOR ≤ 0.70 |
| GLAZED DOORS ≤ 0.45 | EXTERIOR DOOR AIR INFILTRATION: CEC 110.6, ≤ 0.3 cfm/ft² OF DOOR AREA (SINGLE DOORS) |
| SKYLIGHTS, GLASS, CURB-MOUNTED ≤ 0.25 | SOLAR READY (CEC 110.10): SEE ROOF PLAN, A2.51.2 |
| FENESTRATION MIN VT | |
| STOREFRONT ≥ 0.46 | |
| GLAZED DOORS ≥ 0.17 | |
| SKYLIGHTS, GLASS, CURB-MOUNTED ≥ 0.49 | |



729 Heinz Avenue
 Berkeley, CA 94710
 tel 510.542.2200
 fax 510.542.2201

ARCHITECTS SEAL



PROJECT TITLE

CONTRA COSTA
 CCD
 D-4002
 DVC SAN RAMON
 CAMPUS EXPANSION &
 RENOVATION

1690 Watermill Rd.
 San Ramon, CA 94582

RECORD SET:
 THESE DRAWINGS HAVE BEEN PREPARED FROM ADDENDUMS, CCD'S, ASIS AND SELECT RFI'S OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM. ONLY A SELECT FEW AS-BUILTS WERE SUBMITTED.

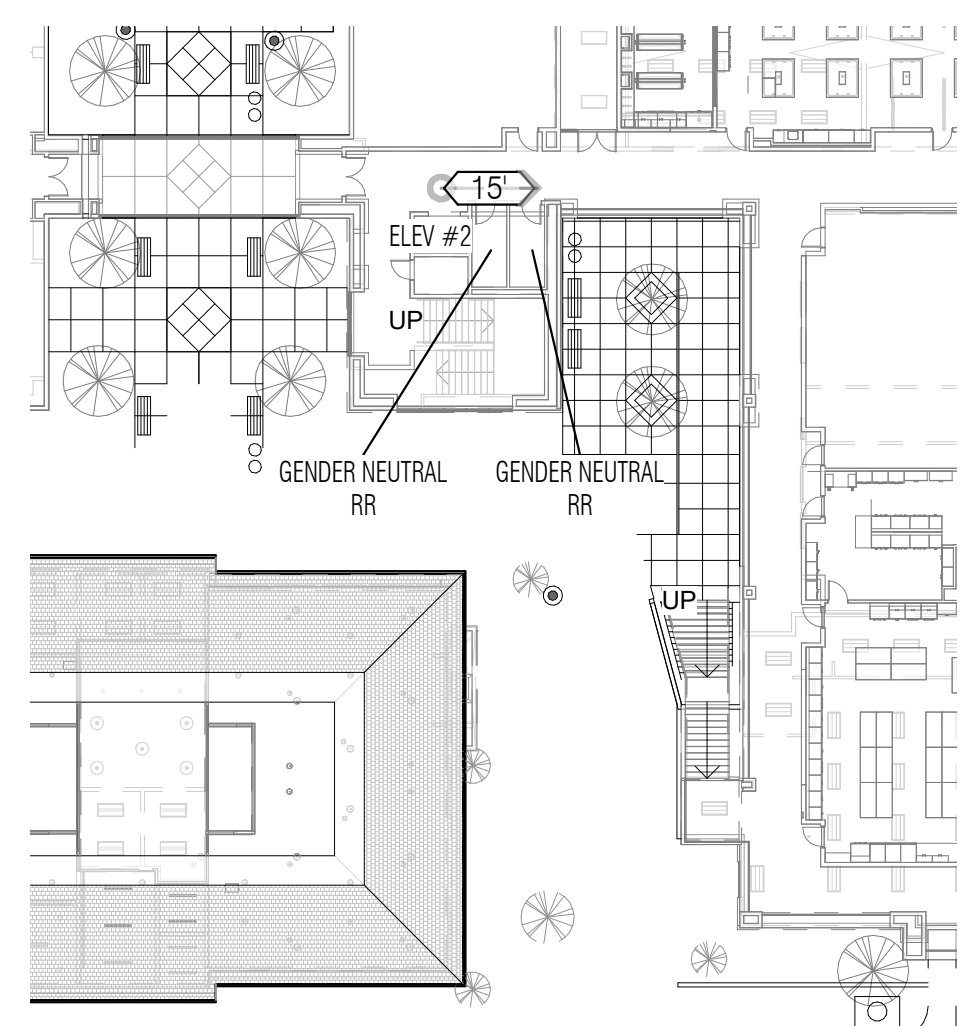
ISSUE TITLE
INCREMENT 2

ISSUE DATE: 5/30/2019
 NOLL & TAM JOB NUMBER: 21630
 REVISIONS: DATE | DESCRIPTION

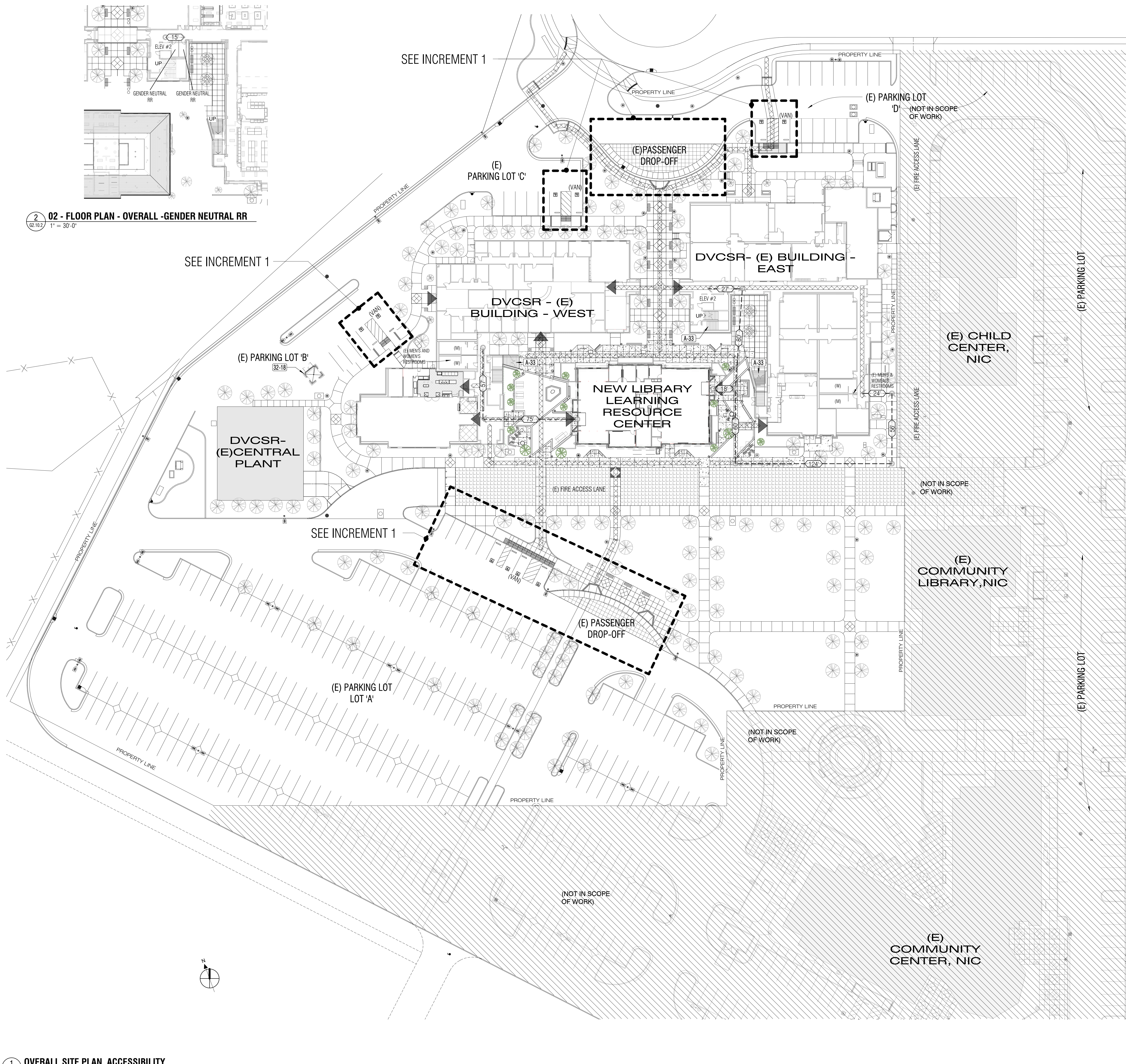
SHEET TITLE
DSA ENERGY CHECKLIST, CALGREEN CHECKLIST, & SUMMARY

SHEET NUMBER

G1.11.2



2 02 - FLOOR PLAN - OVERALL - GENDER NEUTRAL RR
1" = 30'-0"



SHEET NOTES

- EXISTING SITE IMPROVEMENTS ARE PART DSA APPLICATION #01-106062.
- EXISTING BUILDINGS ARE UNDER DSA APPLICATION # 01-105719
- ALL ACCESSIBILITY UPGRADES FOR THE SITE ARE INCLUDED WITH INCREMENT 1 WORK. FOR INCREMENT 1 ACCESS COMPLIANCE INFORMATION, SEE DSA APPLICATION #01-117630
- FOR SCOPE OF WORK FOR THIS INCREMENT, REFER TO CIVIL DWGS, LANDSCAPE DWGS, AND ARCHITECTURAL DWGS INCLUDING A1.01.2, A1.03.2 AND A1.04.2

APPROVALS

ACCESSIBLE PATH OF TRAVEL

ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A CONTINUOUS, BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAX SLOPE, OR VERTICAL CHANGES NOT EXCEEDING 1/4" MAX. AND AT LEAST 48" WIDE. SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. CONTRACTOR SHALL VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED UNDER THIS PROJECT, AND PATH OF TRAVEL COMPLIES WITH CBC.

ACCESSIBILITY STATEMENT

**ACCESSIBILITY STATEMENT BY DESIGN
PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE**

THE PATH-OF-TRAVEL (POT) INDICATED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS.

AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED, AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT (1) HAVE BEEN IDENTIFIED, AND (2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DRAWINGS, DETAILS AND SPECIFICATION INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS.

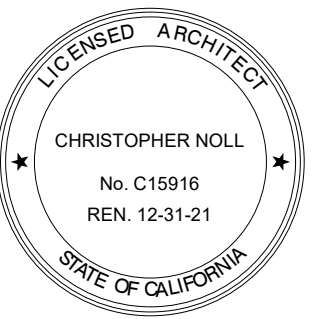
ANY NONCOMPLIANT ELEMENT, COMPONENT, OR PORTION OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT, BASED ON A VALUATION THRESHOLD LIMITATION OR A FINDING OF UNREASONABLE HARSHIP, IS SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF ANY POT ITEM WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT IS FOUND TO BE NONCOMPLYING BEYOND REASONABLE CONSTRUCTION TOLERANCES, IT SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

NOLL & TAM
ARCHITECTS

729 Heinz Avenue
Berkeley, CA 94710
tel 510.542.2200 fax 510.542.2201

ARCHITECTS SEAL



PARKING SUMMARY

EXISTING PARKING:

- (E) PARKING SPACE TOTAL = 281
- TOTAL ACCESSIBLE STALLS PROVIDED = 10
- (E) ACCESSIBLE STALLS = 6
- (E) VAN ACCESSIBLE STALLS = 4

DISPERSAL OF ACCESSIBLE STALLS BY LOT A, B, C AND D AS FOLLOWS:

- (E) PARKING LOT 'A'
TOTAL PARKING SPACES: 250
STANDARD ACCESSIBLE: 3
VAN ACCESSIBLE: 1
- (E) PARKING LOT 'B'
TOTAL PARKING SPACES: 6
STANDARD ACCESSIBLE: 1
VAN ACCESSIBLE: 1
- (E) PARKING LOT 'C'
TOTAL PARKING SPACES: 7
STANDARD ACCESSIBLE: 1
VAN ACCESSIBLE: 1
- (E) PARKING LOT 'D'
TOTAL PARKING SPACES: 18
STANDARD ACCESSIBLE: 1
VAN ACCESSIBLE: 1

ACCESSIBLE PARKING REQUIRED PER 2016 CBC:

FOR 281 STALLS: (1) TOTAL ACCESSIBLE STALLS REQUIRED PER CBC TABLE 11B-208.2 PER CBC 11B-208.4, (2) OF THE (7) REQUIRED STALLS SHALL BE VAN ACCESSIBLE

NO ADDITIONAL ACCESSIBLE STALLS REQUIRED.

KEY NOTES

| Key Value | Keynote Text |
|-----------|---|
| 32-18 | TRASH ENCLOSURE WITH CMU WALLS AND STEEL FRAMED CORRUGATED METAL ROOF |
| A-33 | EXISTING STAIRS TO REMAIN, WITH HANDRAILS EXTENSIONS TREAD WIDTH PLUS 12". NO WORK. |

ACCESSIBILITY LEGEND

- SITE AREA NOT IN SCOPE
- ACCESSIBLE ROUTE OF TRAVEL (POT)
- (E) FIRE ACCESS LANE - TURF BLOCKS REFER TO CIVIL FOR EXTENT OF WORK AND REPLACEMENT
- (E)/(N) BUILDING MAIN ENTRANCE

PROJECT TITLE

**CONTRA COSTA
CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION &
RENOVATION**

1690 Watermill Rd.
San Ramon, CA 94582

RECORD SET:

THESE DRAWINGS HAVE BEEN PREPARED FROM ADDENDUMS, CCD'S, ASIS AND SELECT RFI'S OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM. ONLY A SELECT FEW AS-BUILTS WERE SUBMITTED.

ISSUE TITLE

INCREMENT 2

ISSUE DATE 5/30/2019

NOLL & TAM JOB NUMBER 21630

REVISIONS

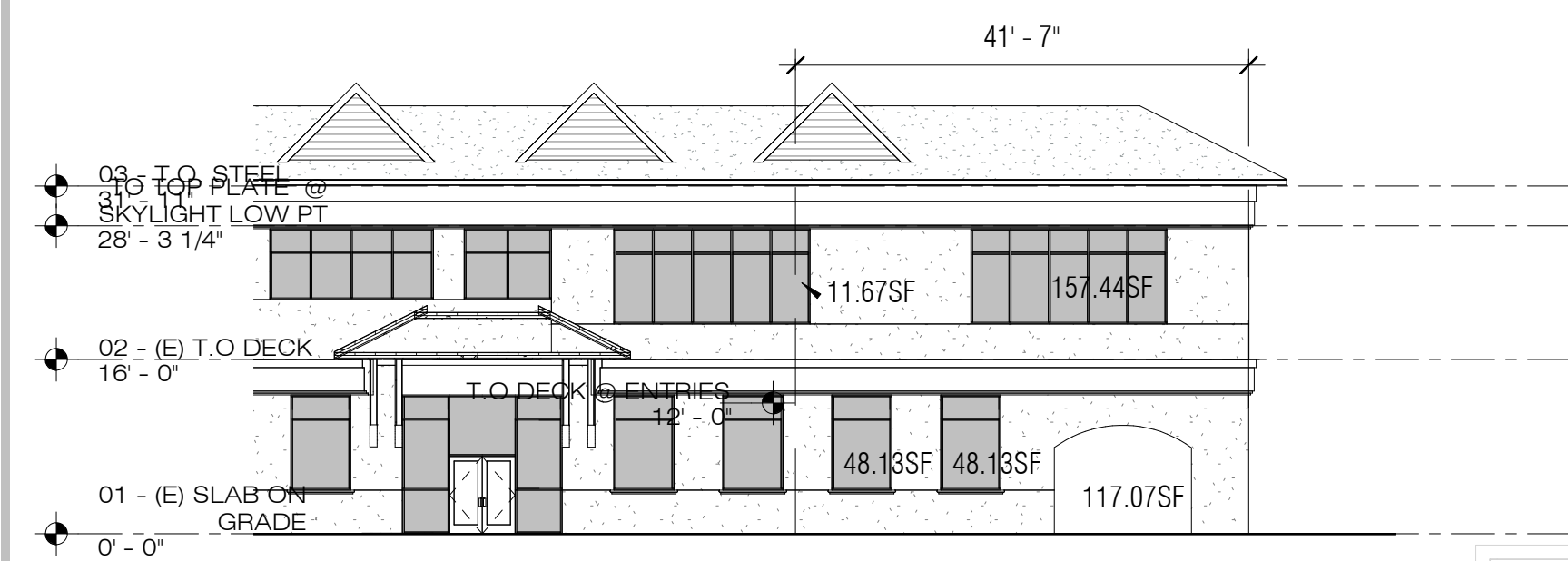
DATE DESCRIPTION

SHEET TITLE

SITE ACCESSIBILITY PLAN

SHEET NUMBER

G2.10.2



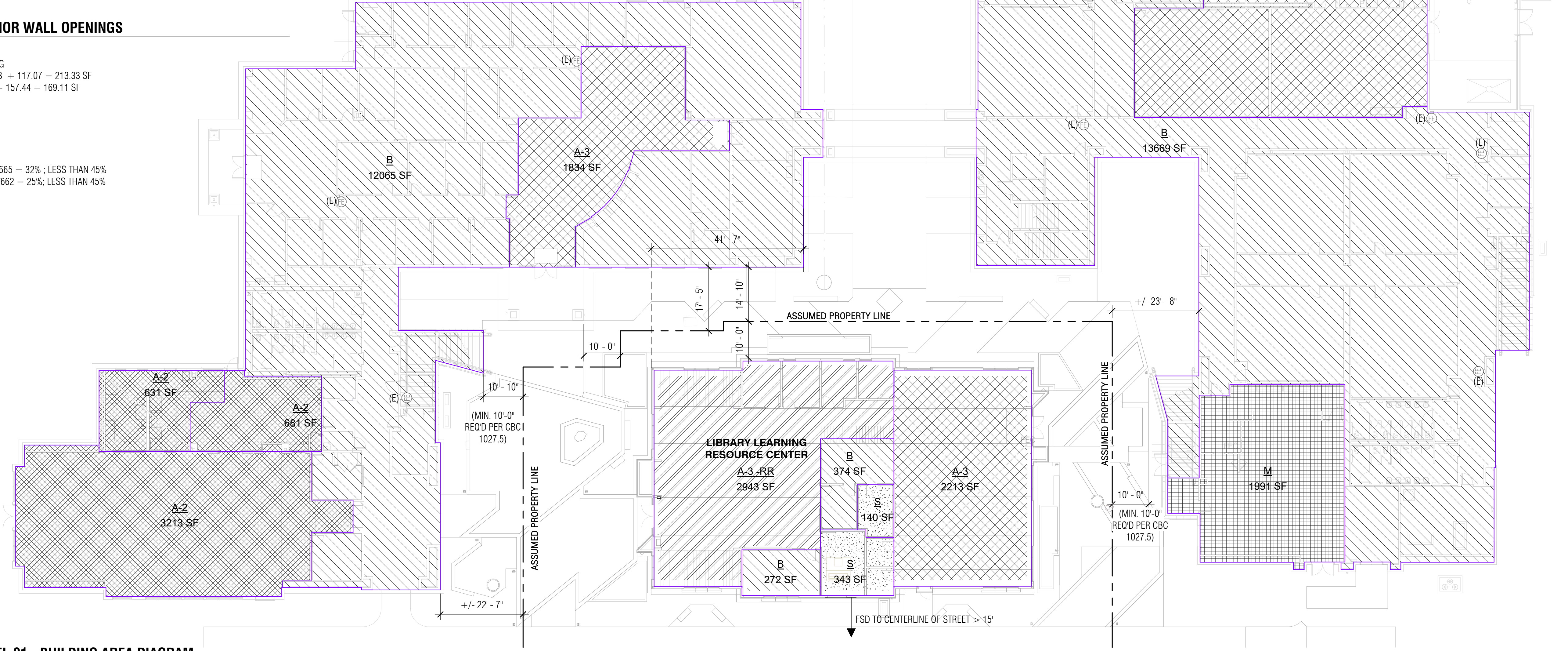
3 (E) EXTERIOR WALL OPENINGS

1/16" = 1'-0"

WINDOW OPENING
 1ST FLR: $2(48.13 + 117.07) = 213.33$ SF
 2ND FLR: $11.67 + 157.44 = 169.11$ SF

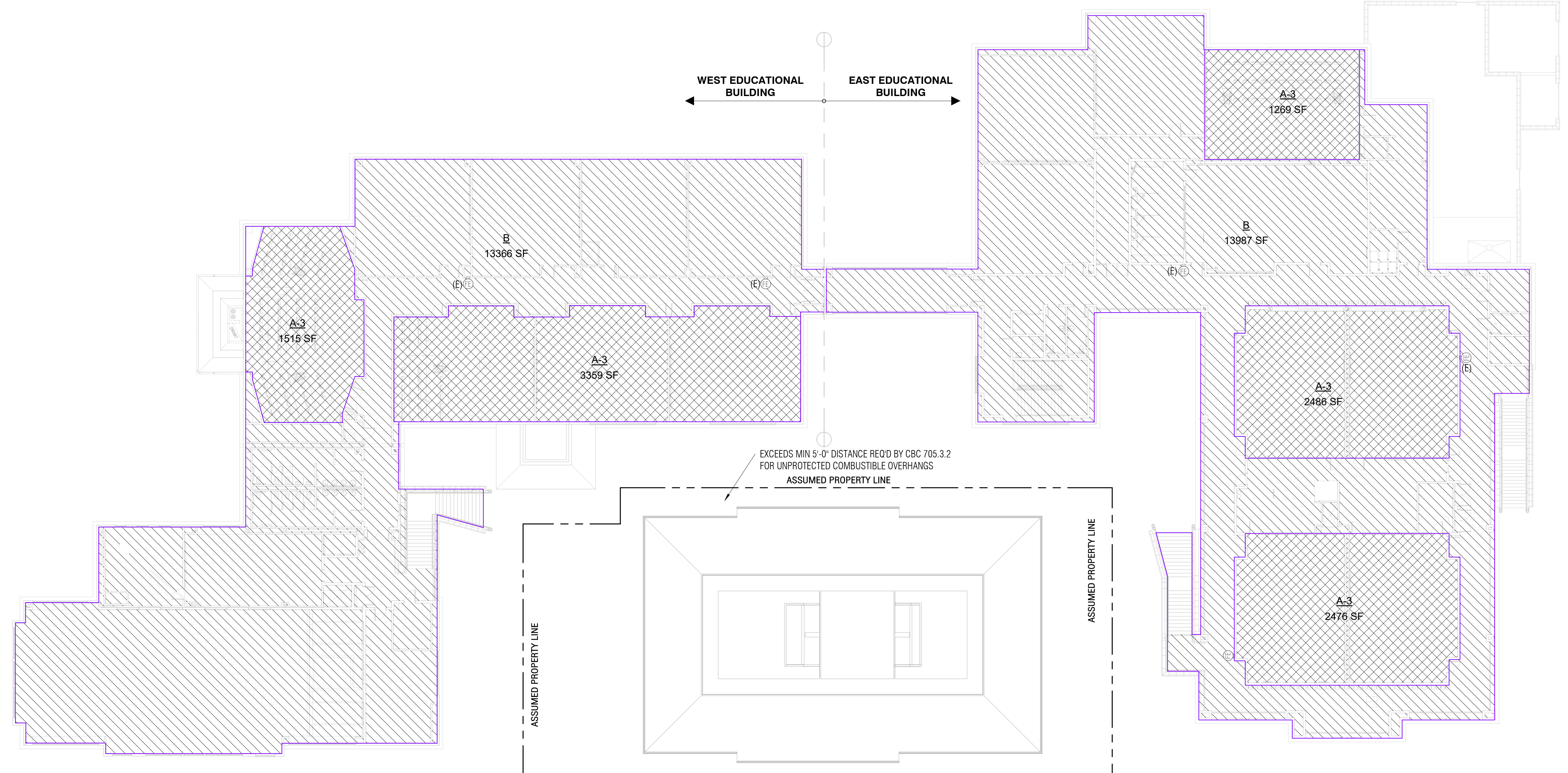
WALL
 1ST FLR: 665
 2ND FLR: 662 SF

% OPENINGS:
 1ST FLR: $213.33/665 = 32\%$, LESS THAN 45%
 2ND FLR: $169.11/662 = 25\%$, LESS THAN 45%



1 LEVEL 01 - BUILDING AREA DIAGRAM

1/16" = 1'-0"



2 LEVEL 02 - BUILDING AREA DIAGRAM

1/16" = 1'-0"

BUILDING CODE SUMMARY

SUMMARY OF EXISTING CONSTRUCTION:

- EXISTING CAMPUS BUILDINGS WERE PERMITTED UNDER THE 2001 CBC
 - CONSTRUCTION TYPE OF EAST & WEST EDUCATIONAL BUILDINGS:
 - 1-HR, FULLY SPRINKLERED
 - AUTOMATIC SPRINKLER SYSTEM WAS USED FOR SUBSTITUTION OF 1-HOUR CONSTRUCTION (2001 CBC 508)
 - OCCUPANCIES:
 - HIGHER ED-COMMUNITY COLLEGE
 - A-3: CLASSROOMS WITH OCCUPANT LOAD >50, LIBRARY
 - EAST AND WEST BUILDING WINGS WERE CONSIDERED SEPARATE BUILDINGS WITH THE 2-HR AREA SEPARATION WALL. (SEE PLAN FOR LOCATION: 2001 CBC 504.6)
 - BUILDING AREAS WERE CALCULATED AS SEPARATE OCCUPANCIES. (2001 CBC 504.3)
 - NO FIRE RATED SEPARATION WAS REQUIRED BETWEEN B AND M OCCUPANCIES (2001 CBC TABLE 3-B)
 - ALLOWABLE HEIGHT = 65' (54'-5" ACTUAL)
 - ALLOWABLE STORIES = 2 STORIES FOR A-2 & A-3. 4 FOR B (2 ACTUAL)
 - NO INCREASE IN BUILDING AREA OR HEIGHT WAS TAKEN FOR SPRINKLERS.

ACTUAL AREAS OF EXISTING BUILDINGS (INCREMENT 1):

| BUILDING | EAST EDUCATIONAL BUILDING | | | WEST EDUCATIONAL BUILDING | | |
|----------------------------------|---------------------------|-------|-------|---------------------------|-------|-----|
| | B | A-3 | M | B | A-3 | M |
| FIRST FLOOR | 13,618 | 4,047 | 1,982 | 12,544 | 5,048 | 832 |
| SECOND FLOOR | 13,987 | 6,230 | 0 | 13,366 | 4,874 | 0 |
| TOTAL BLDG. AREA | 20,217 | | | 18,240 | | |
| TOTAL SQ FOOT OF TWO BUILDINGS = | 38,457 | | | | | |

SUMMARY OF PROPOSED RENOVATION:

- NO CHANGE TO BUILDING AREA, HEIGHT, OR STORIES.
- CONSTRUCTION TYPE: II-B
 - APPLIES TO BOTH EAST & WEST EDUCATIONAL BUILDINGS
 - 1-HR SUBSTITUTION USED IN 2001 CODE IS NOT PERMITTED IN 2016 CODE SO NO LONGER EQUIVALENT TO ORIGINAL TYPE II-1 HR WITH SPRINKLER SUBSTITUTION.
- EAST & WEST BUILDINGS STILL CONSIDERED SEPARATE BUILDINGS FOR DETERMINING ALLOWABLE AREA.
 - TYPE II CONSTRUCTION B & A OCCUPANCIES CAN HAVE 2-HR FIRE WALL SEPARATION PER 2016 CBC TABLE 706 A, FOOTNOTE #1. (2-HR FIRE SEPARATION PROVIDED IN ORIGINAL CONSTRUCTION)
 - INCREASE IN AREA TAKEN FOR FULLY AUTOMATIC SPRINKLER SYSTEM
- PROPOSED OCCUPANCY AREAS:
 - KITCHEN OCCUPANCY IS ACCESSORY TO WEST BUILDING (<10% OF MAJOR B OCCUPANCY AREA)
 - FIRST FLOOR OF WEST BUILDING, B OCC. = 12,544 SF
 - 12,544 x 0.10 = 1,254 SF
 - PROPOSED KITCHEN AREA = 632 SF < 1,254 SF SO OK AS ACCESSORY.

| BUILDING | EAST EDUCATIONAL BUILDING | | | WEST EDUCATIONAL BLDG. | | |
|------------------------------|---------------------------|-------|-------|------------------------|-------|---|
| | B | A-3 | M | B | A-3 | M |
| FIRST FLOOR | 13,618 | 4,047 | 1,982 | 12,697 | 1,834 | 0 |
| SECOND FLOOR | 13,987 | 6,230 | 0 | 13,366 | 4,874 | 0 |
| TOTAL BLDG. AREA (NO CHANGE) | 20,217 | | | 18,240 | | |

ALLOWABLE AREA, NON-SEPARATED OCCUPANCIES:

PER TABLE 506.2, ALLOWABLE AREA FACTORS (SM):
 B = 69,000
 A-2 = 28,500
 A-3 = 28,500
 M = 37,500

WORST CASE CONDITION, A-3 OCCUPANCY APPLIED TO BOTH EAST & WEST BLDGS.
 CBC 506.2.4: EACH STORY OF A MIXED-OCCUPANCY BUILDING WITH MORE THAN 1 STORY ABOVE GRADE, BUT LESS THAN 3, SHALL COMPLY WITH CBC 508.1.

CBC 508.3, NON-SEPARATED OCCUPANCIES:
 EACH FLOOR OF EACH BUILDING CANNOT EXCEED THE LIMIT FOR THE MOST RESTRICTIVE OCCUPANCY:
 A-3 (SM) @ 28,500 SF PER FLOOR
 EACH FLOOR IN EACH BUILDINGS < 28,500 SF: OK

REFER TO INCREMENT 1 FOR ADDITIONAL INFORMATION
NEW BUILDING SUMMARY- LIBRARY LEARNING RESOURCE CENTER.

CONSTRUCTION TYPE: V-B, SPRINKLERED
 OCCUPANCIES: A-3 AREA: 6600 SF

ALLOWABLE BUILDING HEIGHT: CBC 504.3
 A OCC. SPRINKLERED WITHOUT AREA INCREASE = 60' > 50' MAX ACTUAL HT.

ALLOWABLE STORIES: CBC TABLE 504.4
 A-3 OCC. SPRINKLERED = 2 ALLOWED > 1 ACTUAL STORY

BASIC ALLOWABLE AREAS: CBC TABLE 506.2
 A-3 OCC. S1 (SPRINKLERED, 1-STORY) = 24,000 > 6,674 GSF ACTUAL

FIRE-RESISTANCE RATINGS FOR BUILDING ELEMENTS: CBC TABLE 601
 FOR TYPES VB & IB:
 PRIMARY STRUCTURAL FRAME 0 HR
 BEARING WALLS 0 HR
 NONBEARING INTERIOR WALLS 0 HR
 FLOOR & ROOF 0 HR

FIRE RATING EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE (FSD): TABLE 602
 TYPE V-B (NEW BLDG.) AND II-B (EXISTING BLDGS.)
 X-5 1 HR
 5<X-10 1 HR
 10<X-30 0 HR
 X<= 30 0 HR

MAXIMUM AREA OF EXTERIOR WALL OPENINGS BASED ON FSD: TABLE 705.8
 705.8.1 EXCEPTION 1: WHERE WALL FACES A STREET AND FSD > 15' UNPROTECTED OPENING AREA IS UNLIMITED.
 705.8.1 EXCEPTION 2: BUILDINGS WHOSE EXTERIOR BEARING & NON-BEARING WALLS & EXTERIOR STRUCTURAL FRAME ARE NOT REQ'D TO BE FIRE-RESISTANCE RATED SHALL BE PERMITTED TO HAVE UNLIMITED UNPROTECTED OPENINGS - APPLICABLE TO (N) LLRC BUILDING.
 FSD < 3 NOT PERMITTED
 FSD 3 < 5 15% UNPROTECTED & SPRINKLERED
 FSD 5 < 10 25% UNPROTECTED & SPRINKLERED
 FSD 10 < 15 45% UNPROTECTED & SPRINKLERED
 FSD 15 < 20 75% UNPROTECTED & SPRINKLERED
 FSD >= 20 UNLIMITED, UNPROTECTED & SPRINKLERED

OCCUPANCY TYPE

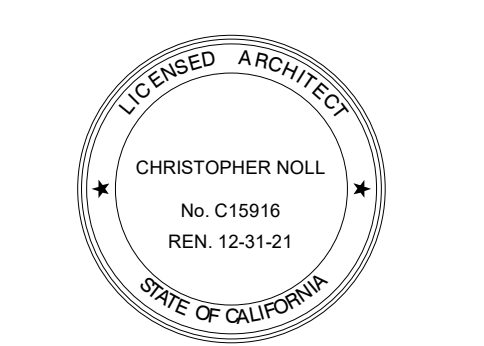
- ASSEMBLY A-2, UNCONCENTRATED (15 NET SF/OCC)
- ASSEMBLY A-3, UNCONCENTRATED (15 OR 20 NET SF/OCC)
- BUSINESS AREA (100 GROSS SF/OCC)
- LIBRARY- READING ROOM (50 NET SF/OCC)
- ACCESSORY STORAGE / MECH (300 GROSS SF/OCC)
- MERCANTILE (60 OCC/GROSS SF)

APPROVALS

NOLL & TAM ARCHITECTS

729 Heinz Avenue
 Berkeley, CA 94710
 tel 510.542.2200
 fax 510.542.2201

ARCHITECTS SEAL



PROJECT TITLE

**CONTRA COSTA
 CCD
 D-4002
 DVC SAN RAMON
 CAMPUS EXPANSION &
 RENOVATION**

1690 Watermill Rd.
 San Ramon, CA 94582

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ISSUE TITLE

INCREMENT 2

ISSUE DATE: 5/30/2019

NOLL & TAM JOB NUMBER: 21630

REVISIONS: DATE | DESCRIPTION

SHEET TITLE

CODE ANALYSIS

SHEET NUMBER

G2.11.2

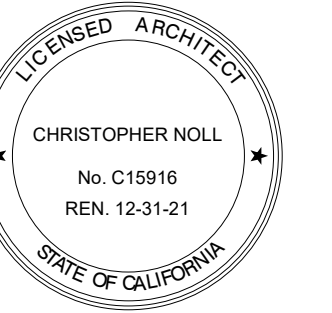
SHEET NOTES:

- HATCHED AREAS INDICATE AREAS OF RENOVATION AND NEW WORK.
- EXIT SIGN LOCATIONS ARE SHOWN IN AREA OF WORK ONLY AND ARE DIAGRAMMATIC. SEE RCP'S AND ELECTRICAL LIGHTING PLANS FOR INFORMATION REGARDING EXISTING OR NEW, LOCATION, MOUNTING, AND DIRECTION.

NOLL & TAM ARCHITECTS

729 Heinz Avenue
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ARCHITECTS SEAL



SYMBOL LEGEND

- | | | |
|-------------------------|---|---|
| ASSEMBLY-UNCONCENTRATED | — | OCCUPANCY TYPE DESCRIPTION |
| 4000 SF | → | TOTAL ROOM AREA IN SQUARE FEET |
| A-3 15 OLF | → | OCCUPANT LOAD FACTOR PER CBC TABLE 1004.1.2 |
| 1 267 OCC | → | TOTAL ROOM OCCUPANCY |
| | → | OCCUPANCY TYPE PER CBC TABLE 1004.1.2 |
| 19 | → | COMMON PATH OF EGRESS TRAVEL (CPOT) CBC SECTION 1014.3 (MAY ALSO INCLUDE EXIT ACCESS TRAVEL DISTANCE) |
| 19 | → | EXIT ACCESS TRAVEL DISTANCE PER CBC SECTION 1017.2 |
| --- | → | EXISTING 1-HOUR RATED ASSEMBLY |
| --- | → | EXISTING 2-HOUR RATED AREA SEPARATION WALL |
| --- | → | NEW 1-HOUR RATED ASSEMBLY |
| 6 | → | OCCUPANT LOAD |
| 24 | → | ACCUMULATED OCCUPANT LOAD |
| 24 | → | (E) FIRE EXTINGUISHER |
| 24 | → | EXIT SIGN LOCATION (SEE SHEET NOTE #2) |

OCCUPANCY TYPE

- ASSEMBLY A-2, UNCONCENTRATED (15 NET SF/OCC)
- ASSEMBLY A-3, UNCONCENTRATED (15 OR 20 NET SF/OCC)
- BUSINESS AREA (100 GROSS SF/OCC)
- LIBRARY - READING ROOM (50 NET SF/OCC)
- ACCESSORY STORAGE / MECH (300 GROSS SF/OCC)
- MERCANTILE (60 OCC/GROSS SF)

EGRESS CODE NOTES:

- OCCUPANCY CLASSIFICATIONS PER DSA IR A-26.c.c.
 - A. CLASSROOMS = B OCCUPANCY WITH LOAD FACTOR OF 20 NET.
 - B. CLASSROOMS WITH OCCUPANT LOAD >= 50 = A-3
 - C. SCIENCE CLASSROOMS (EXEMPT AMOUNTS OF HAZARDOUS MATERIALS) = B OCCUPANCY WITH LOAD FACTOR OF 50 NET.
 - D. READING ROOM AREAS (COMPUTER AREA, CHAIR & TABLE AREAS) = OCCUPANT LOAD FACTOR OF 50 NET
- MINIMUM EXIT WIDTH (CBC 1005.1):
 - A. DOOR: OCC LOAD x 0.2 EGRESS CAPACITY FACTOR, OR MINIMUM 32" CLEAR BETWEEN STOP & FACE OF DOOR WHEN OPEN 90 DEGREES (CBC 1010.1)
 - B. CORRIDOR: OCC LOAD x 0.2 EGRESS CAPACITY FACTOR, OR 44" MINIMUM CLEAR (CBC TABLE 1020.2)
 - C. STAIR: OCC LOAD x 0.3 EGRESS CAPACITY FACTOR, OR MINIMUM 44" PER CBC 1011.2
- EXIT DOORS TO SWING IN DIRECTION OF TRAVEL WHEN OCC LOAD > 50 (CBC 1010.1.2.1)
- MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE (CBC TABLE 1006.2.1):
 - A. A, M OCCUPANCY WITH SPRINKLER SYSTEM = 75'
 - B. B OCCUPANCY WITH SPRINKLER SYSTEM = 100'
 - C. MAXIMUM OCCUPANT LOAD OF SPACE = 49
- MAXIMUM EXIT ACCESS TRAVEL DISTANCE WITH AUTOMATIC SPRINKLERS (CBC TABLE 1017.2):
 - A. B OCCUPANCY = 300 FEET
 - B. A, M, S-1 = 250 FEET
 - C. TRAVEL DISTANCE SPECIFIED IN TABLE 1017.2 SHALL BE INCREASED UP TO AN ADDITIONAL 100' PROVIDED THE LAST PORTION OF THE EXIT ACCESS LEADING TO THE EXIT OCCURS ON AN EXTERIOR EGRESS BALCONY.
- MAXIMUM DEAD-END CORRIDOR (CBC 1020.4) = 50' WITH AUTOMATIC SPRINKLER SYSTEM THROUGHOUT
- CORRIDOR FIRE-RATING WHEN OCCUPANT LOAD > 30 (CBC TABLE 1020.1)
 - A. A, B, M, S OCCUPANCIES = NON-RATED WITH SPRINKLER SYSTEM
- HORIZONTAL EXITS:
 - A. NUMBER OF EXITS WITHIN THE REFUGE AREA FROM THE HORIZONTAL EXIT IS NOT REQUIRED TO INCLUDE THE NUMBER OF OCCUPANTS SERVED BY THE HORIZONTAL EXIT (CBC 1026.4.2)

PROJECT TITLE

CONTRA COSTA CCD D-4002 DVC SAN RAMON CAMPUS EXPANSION & RENOVATION

1690 Watermill Rd.
San Ramon, CA 94582

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ISSUE TITLE

INCREMENT 2

ISSUE DATE 5/30/2019

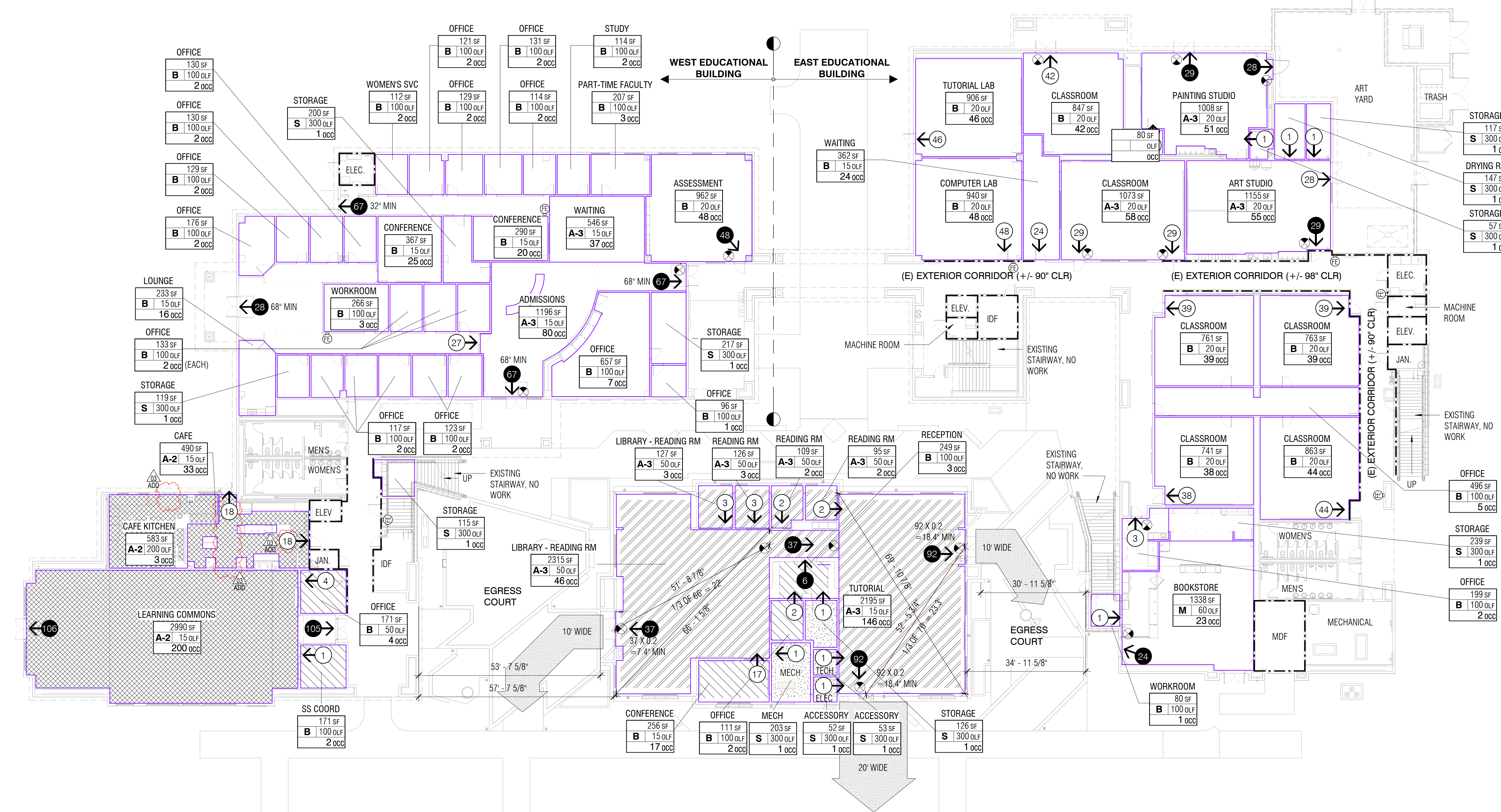
NOLL & TAM JOB NUMBER 21630

| REVISIONS | DATE | DESCRIPTION |
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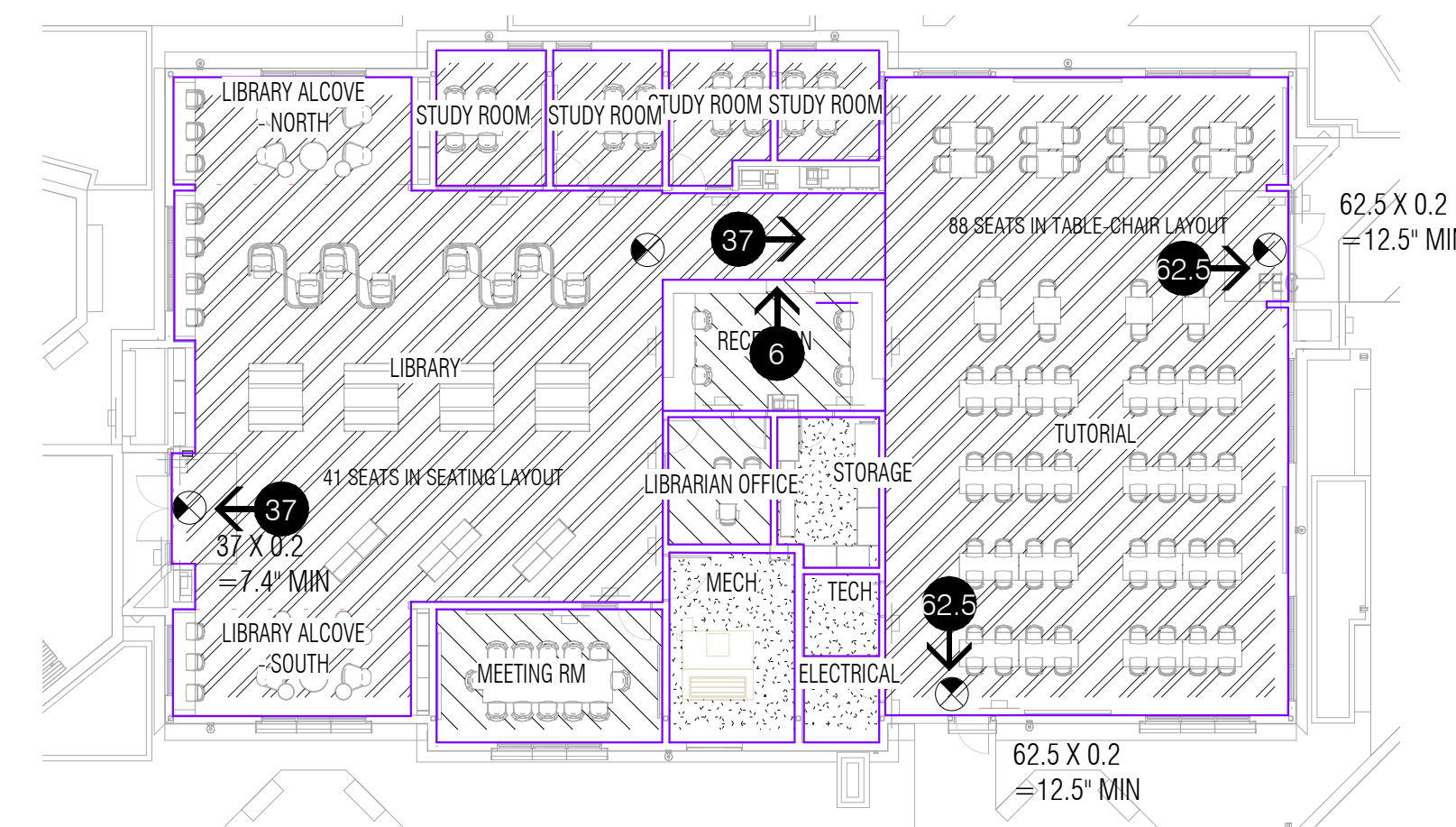
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**OCCUPANCY &
EGRESS PLAN - 1ST
FLOOR**

SHEET NUMBER

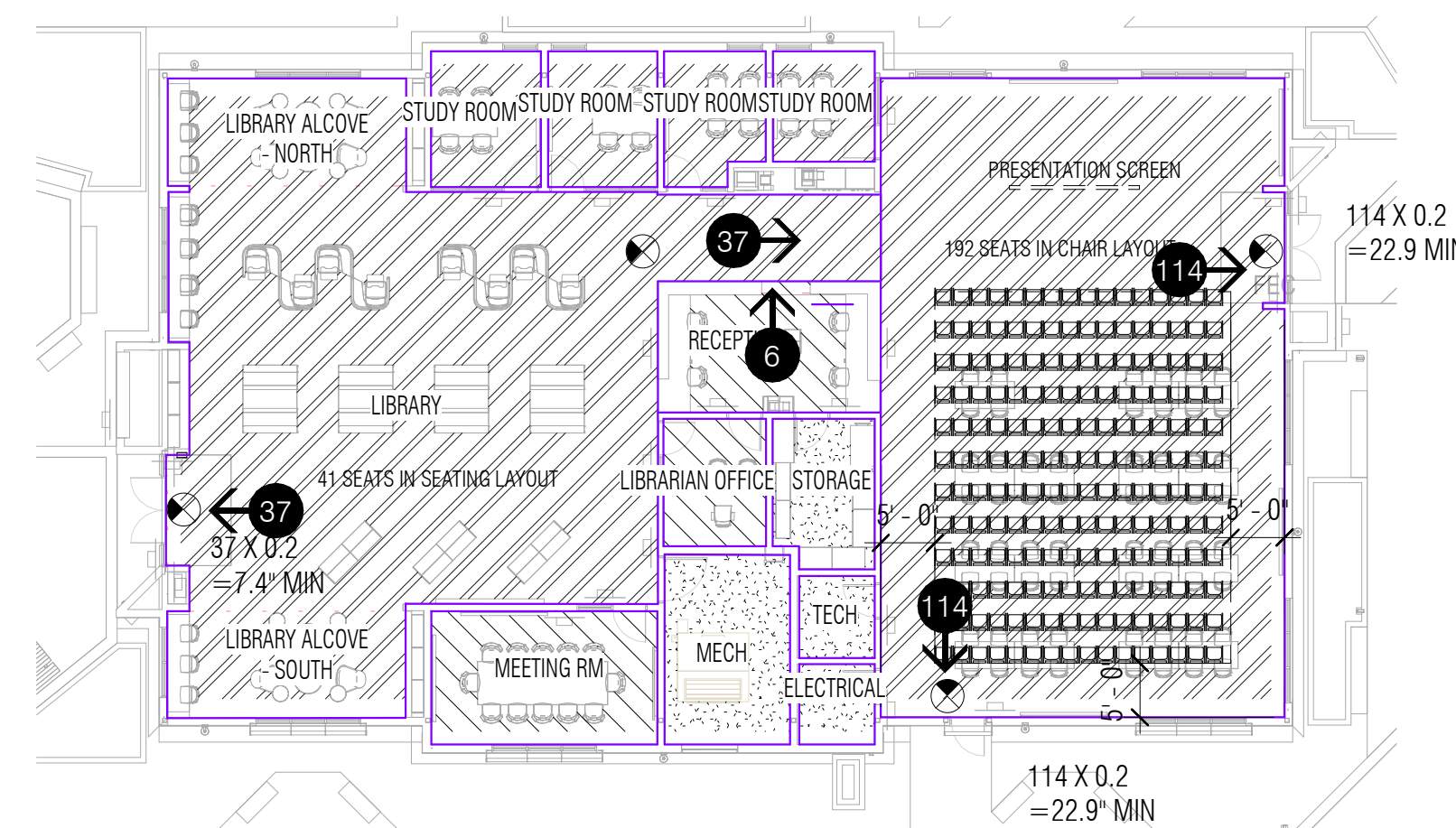
G2.12.2



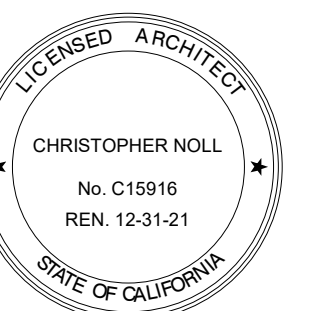
1 FLOOR 1 OCCUPANCY / EXITING
02.12.2 1/16" = 1'-0"



2 LLRC OCCUPANCY / EXITING (TABLE-CHAIR AT TUTORIAL)
02.12.2 1/16" = 1'-0"



3 LLRC OCCUPANCY / EXITING (CHAIRS AT TUTORIAL)
02.12.2 1/16" = 1'-0"



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PLUMBING FIXTURE SUMMARY

| LOCATION OF (E) TOILET ROOMS | # FIXTURES |
|------------------------------|-------------------|
| W111 WOMENS RR | 5 WC, 4 LAV |
| W112 MENS RR | 3 WC, 2 UR, 4 LAV |
| W206 WOMENS RR | 5 WC, 4 LAV |
| W207 MENS RR | 3 WC, 2UR, 4 LAV |
| E177 WOMENS RR | 7 WC, 5 LAV |
| E178 MENS RR | 4 WC, 3 UR, 5 LAV |
| E241 GENDER NEUTRAL | 1 WC, 1 LAV |
| E242 GENDER NEUTRAL | 1 WC, 1 LAV |

EXISTING EAST AND WEST BUILDINGS (PLUMBING FIXTURES BY MULTIPLE OCCUPANCY CPC, 422.1 - TABLE A)

| (E) WEST 1ST FLOOR | SF | LOAD FACTOR | TOTAL OCCUP |
|--------------------|------|-------------|-------------|
| GROUP E-C | 935 | 50 | 19 |
| GROUP A-3/A-2 | 4131 | 30 | 138 |
| GROUP B | 6225 | 200 | 32 |
| GROUP S | 755 | 5000 | 1 |
| GROUP M | 1213 | 200 | 6 |

| (E) WEST 2ND FLOOR | SF | LOAD FACTOR | TOTAL OCCUP |
|--------------------|------|-------------|-------------|
| GROUP E-C | 9053 | 50 | 182 |
| GROUP A-3/A-2 | 204 | 30 | 7 |
| GROUP S | 593 | 5000 | 1 |

| (E) EAST 1ST FLOOR | SF | LOAD FACTOR | TOTAL OCCUP |
|--------------------|-------|-------------|-------------|
| GROUP E-C | 10340 | 50 | 207 |
| GROUP B | 80 | 200 | 1 |
| GROUP S | 1099 | 5000 | 1 |
| GROUP M | 1386 | 200 | 7 |

| (E) EAST 2ND FLOOR | SF | LOAD FACTOR | TOTAL OCCUP |
|--------------------|-------|-------------|-------------|
| GROUP E-C | 12450 | 50 | 249 |
| GROUP S | 119 | 5000 | 1 |

TOTAL: 852

FROM PLUMBING TABLE THAT CALCULATES TOTAL OCCUPANTS PER TABLE A, TOTAL OCCUPANTS IS 852

WITH 50% MEN AND 50% WOMEN: MEN: 852/2 = 426 WOMEN: 852/2 = 426

PER CBC 2016 TABLE 422.1, USE B - EDUCATIONAL INSTITUTIONS - ABOVE HIGH SCHOOL

| | MINIMUM REQUIRED TOTAL FIXTURES | | (E) TOTAL FIXTURES | |
|---|---------------------------------|------------|--------------------|----------------|
| | MEN | WOMEN | MEN | WOMEN |
| WC MALE: 4:201-400, OVER 400, ADD 1 FIXTURE FOR ADDITIONAL 500 MALES | 5 | | 11 | |
| WC FEMALE: 11:201-400 | | 12 | | 18 |
| UR MALE: 4:401-600 | 4 | | 7 | |
| LAV MALE: 5:301-400 OVER 400, ADD 1 FIXTURE FOR EACH ADDITIONAL 250 | 6 | | 14 | |
| LAV FEMALE: 6:301-400 OVER 400, ADD 1 FIXTURE FOR EACH ADDITIONAL 250 | | 7 | | 14 |
| DRINKING FOUNTAIN: 1 PER 150 | | 7 TOTAL DF | | 10 EXISTING DF |

NEW LLRC BUILDING

| GROUP | SF | LOAD FACTOR | TOTAL OCCUP |
|-----------|------|-------------|-------------|
| GROUP A-3 | 2186 | 30 | 73 |
| GROUP B | 328 | 200 | 2 |
| GROUP S | 127 | 5000 | 1 |
| GROUP E-C | 2909 | 50 | 59 |
| TOTAL: | | | 135 |

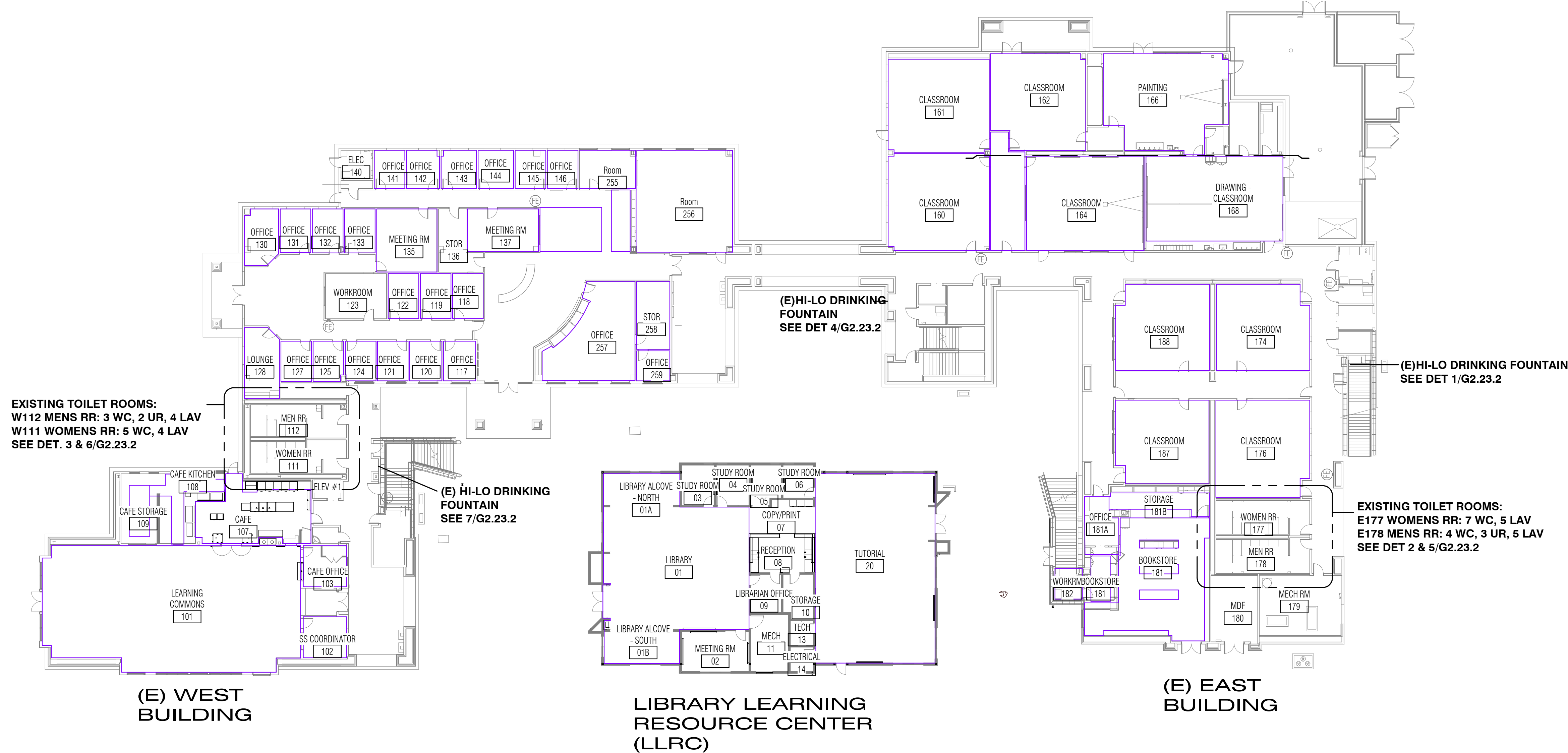
FROM PLUMBING TABLE THAT CALCULATES TOTAL OCCUPANTS PER TABLE A, TOTAL OCCUPANTS IS 852 FOR EXISTING BUILDING PLUS 135 (LLRC) FOR TOTAL OF 987 OCCUPANTS.

WITH 50% MEN AND 50% WOMEN: MEN: 987/2 = 493.5 WOMEN: 987/2 = 493.5

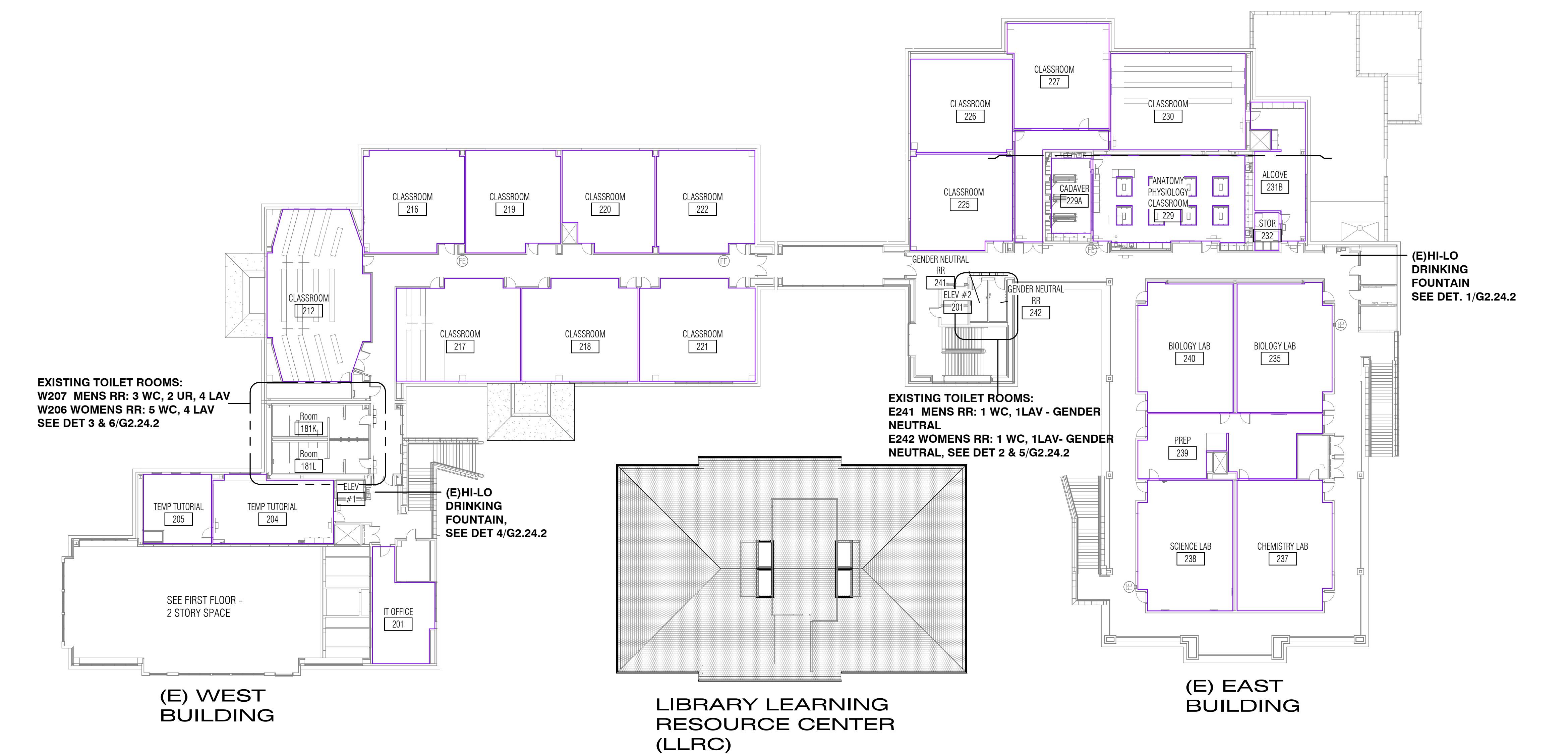
PER CBC 2016 TABLE 422.1, USE B - EDUCATIONAL INSTITUTIONS - ABOVE HIGH SCHOOL

| | MINIMUM REQUIRED TOTAL FIXTURES | | (E) TOTAL FIXTURES | |
|--|---------------------------------|---------------|--------------------|-------|
| | MEN | WOMEN | MEN | WOMEN |
| WC MALE: 2:51-100 ADD 1 FIXTURE FOR ADDITIONAL 500 MALES | 5 | | 11 | |
| WC FEMALE: 4:51-100 | | 12 | | 18 |
| UR MALE: 1:1-100 | 4 | | 7 | |
| LAV MALE: 1:1-75 | 6 | | 14 | |
| LAV FEMALE: 2:51-100 | | 7 | | 14 |
| DRINKING FOUNTAIN: 1 PER 150 | | 6.58 TOTAL DF | | |

PROVIDE (2) GENDER NEUTRAL RESTROOMS ADJACENT TO LLRC AND THE REMAINDER OF THE RESTROOMS ARE PROVIDED AS PART OF THE EXISTING BUILDING COUNT SINCE THERE IS EXCESS FIXTURES LOCATED NEARBY. NEAREST RESTROOM W111 (WOMENS) AND W112 (MENS) IS 130' AWAY IN THE WEST BUILDING.



01 - FLOOR - PLUMBING SUMMARY - Increment 2
1/21/2 1" = 20'-0"



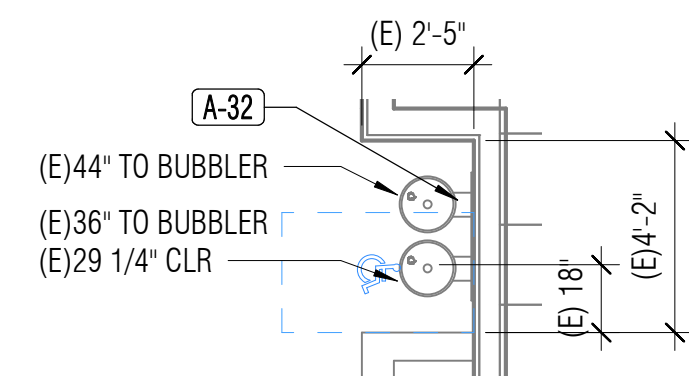
02 - FLOOR - PLUMBING SUMMARY - Increment 2
2/21/2 1" = 20'-0"

GENERAL NOTES

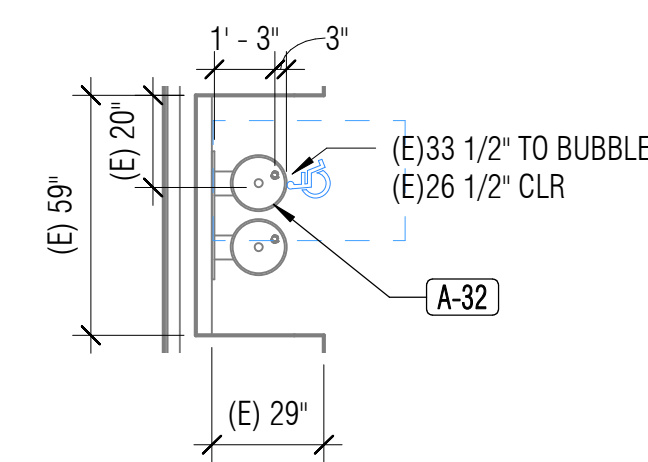
- EXISTING RESTROOMS AND DRINKING FOUNTAIN CONSTRUCTED UNDER THE SAN RAMON VALLEY CENTER PROJECT - DSA# 01-105719
- EXISTING SIGNAGE ON RESTROOM DOOR AND ADJACENT TO DOOR. SIGNAGE, WITH EXCEPTION OF GENDER NEUTRAL RESTROOMS, INSTALLED UNDER DSA# 01-105719
- REMOVE AND REPLACE EXISTING RESTROOM SIGNAGE. SEE SIGNAGE PLAN
- REMOVE AND REPLACE EXISTING TOILET PAPER DISPENSER IN EACH ACCESSIBLE TOILET STALL. SEE MOUNTING HEIGHT

KEY NOTES

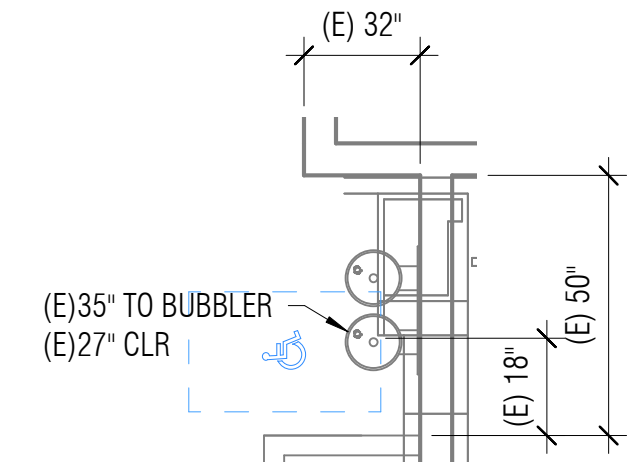
| Key Value | Keynote Text |
|-----------|---|
| 02-29 | REMOVE PORTION OF EXISTING PARTITION AS INDICATED |
| 02-40 | REMOVE AND SALVAGE EXISTING SOAP DISPENSER FOR RELOCATION TO LOWER HEIGHT |
| 02-41 | REMOVE AND SALVAGE EXISTING 8" STAINLESS STEEL SHELF. RETURN TO OWNER |
| 02-46 | REMOVE AND SALVAGE EXISTING GRAB BARS, BOTH SIDES @ AMBULATORY STALL FOR RELOCATION |
| 02-72 | REMOVE AND SALVAGE EXISTING HOOK STRIP - NON-ADA HEIGHT. RETURN TO OWNER. SEE KEYNOTE FOR NEW ACCESSIBLE HOOK AT LOWER HEIGHT |
| A-01 | LESS THAN TOTAL (6) PLUMBING FIXTURES (WC + URINALS) DOES NOT REQUIRE AN AMBULATORY STALL |
| A-02 | REMOUNT EXISTING SOAP DISPENSER TO ACCESSIBLE MOUNTING HEIGHT |
| A-03 | EXISTING ACCESSIBLE MULTI-STATION LAVATORY - 29" MIN KNEE CLEAR, 34" MAX TO TOP (ACORN ENG - MODEL 3704, 3703, OR 3702) |
| A-04 | REMOVE EXISTING TOILET SEAT COVER, TOP OF SEAT AT 20" AFF |
| A-05 | EXISTING WALL-MOUNTED MIRROR, 39" TO REFLECTIVE SURFACE |
| A-06 | EXISTING SIDE 48" GRAB BAR, WITHIN 33" MIN, 36" MAX AFF, 1-1/2" MAX DIAM. |
| A-08 | EXISTING PAPER TOWEL DISPENSER, WITHIN THE 40" MAX OPERABLE PART |
| A-09 | EXISTING HAND DRYER, WITHIN THE 40" MAX OPERABLE PART |
| A-10 | EXISTING SEAT COVER DISPENSER, WITHIN THE 40" MAX OPERABLE PART |
| A-11 | EXISTING TOILET PARTITION, @ ACCESSIBLE COMPARTMENT - ACCESSIBLE DOOR WITH SELF-CLOSING HARDWARE, U-SHAPE HANDLE |
| A-12 | EXISTING WATER CLOSET - SENSORED, WITHIN 17" MIN TO 19" TOP OF SEAT |
| A-13 | EXISTING HI-LO DRINKING FOUNTAIN |
| A-14 | NEW SURFACE MOUNTED SINGLE HAT AND COAT HOOK, (3) AT ACCESSIBLE MOUNTING HEIGHT (48" MAX TO TOP), 6" OC SPACING |
| A-15 | REMOUNT EXISTING GRAB BARS, BOTH SIDES @ AMBULATORY STALL, 54" MIN FROM REAR WALL |
| A-16 | REMOUNT EXISTING GRAB BAR @ ACCESSIBLE COMPARTMENT |
| A-17 | NEW TOILET PARTITION - FLOOR MOUNTED, TO MATCH EXISTING, FOR AMBULATORY STALL. REMOUNT ANY EXISTING ACCESSORIES MOUNTED ON PARTITION. MIN 32" DOOR WITH SELF-CLOSING HARDWARE, U-SHAPE HANDLE AND LATCH |
| A-18 | NEW 42" GRAB BARS, BOTH SIDES OF AMBULATORY STALL |
| A-19 | EXISTING ACCESSIBLE URINAL - SENSORED - LIP WITHIN 17" MAX AFF |
| A-30 | NEW TOILET SEAT COVER AT ACCESSIBLE STALL, TOP OF SEAT AT 19" MAX AFF |
| A-31 | MODIFY DEPTH OF AMBULATORY STALL TO 60" MIN. TRIM AND REPLACE DOOR AND PARTITION AS REQUIRED. |
| A-32 | REMOVE AND RAISE THE DRINKING FOUNTAIN FOR 27" MIN CLR BELOW ACCESSIBLE SINK. MODIFY PLUMBING AS REQUIRED. PATCH AND REPAIR EXTERIOR PLASTER FINISH IN KIND |
| A-34 | REMOVE AND SALVAGE EXISTING GRAB BARS FOR RE-INSTALLATION AT ACCESSIBLE DISTANCE FROM WALL AND WC |
| A-35 | NEW 2 TIER LOCKERS (12" W X 18" X 36" H @ EACH LOCKER) - TOTAL (4) LOCKERS INCLUDING (1) ACCESSIBLE LOCKER, ON 6" LEGS, SECURE TO WALL, BACKING AS REQUIRED. |



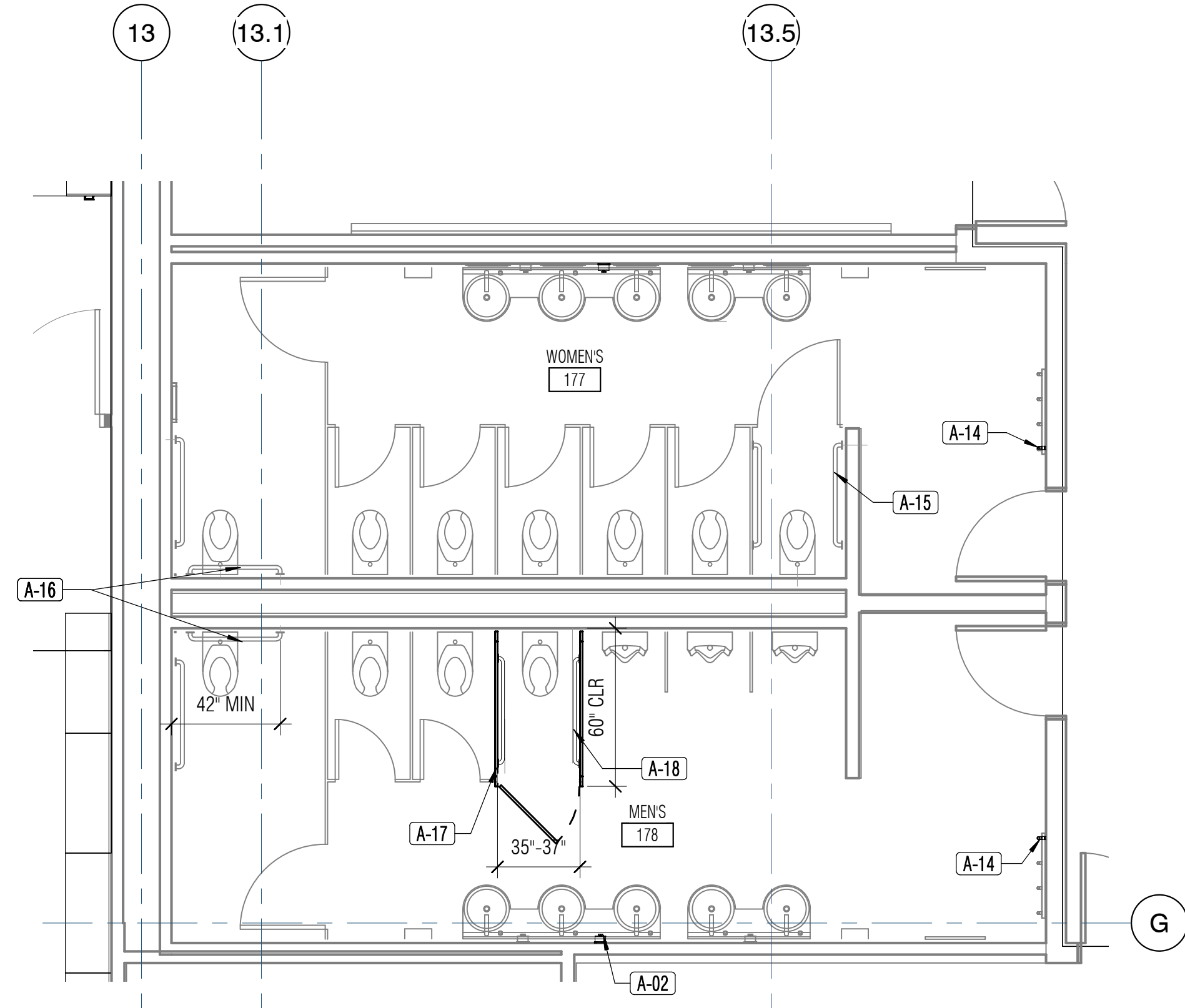
7 FLOOR 1 (EXISTING) DRINKING FOUNTAIN 3
02.23.2 1/4" = 1'-0"



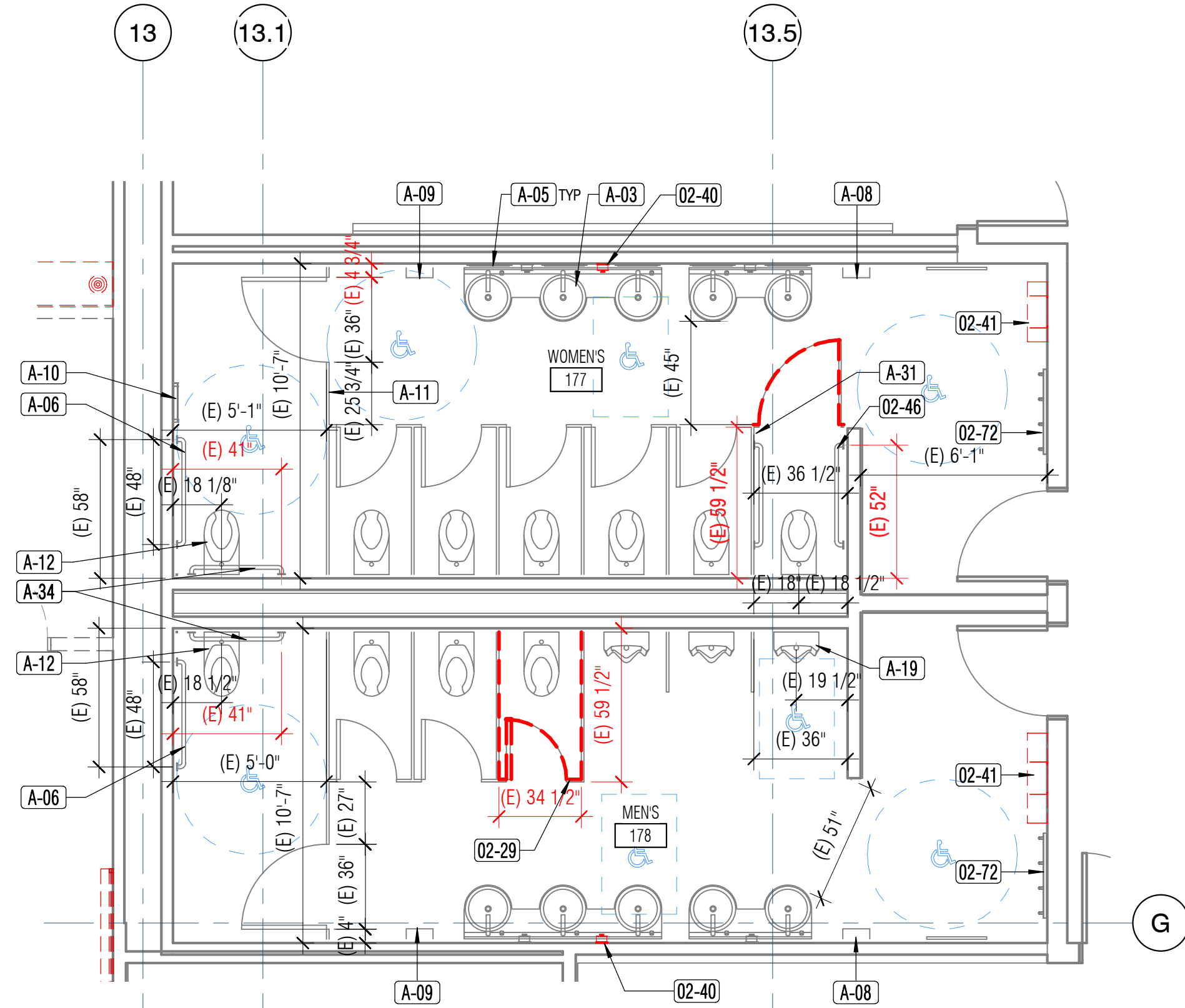
4 FLOOR 1 (EXISTING) DRINKING FOUNTAIN 2
02.23.2 1/4" = 1'-0"



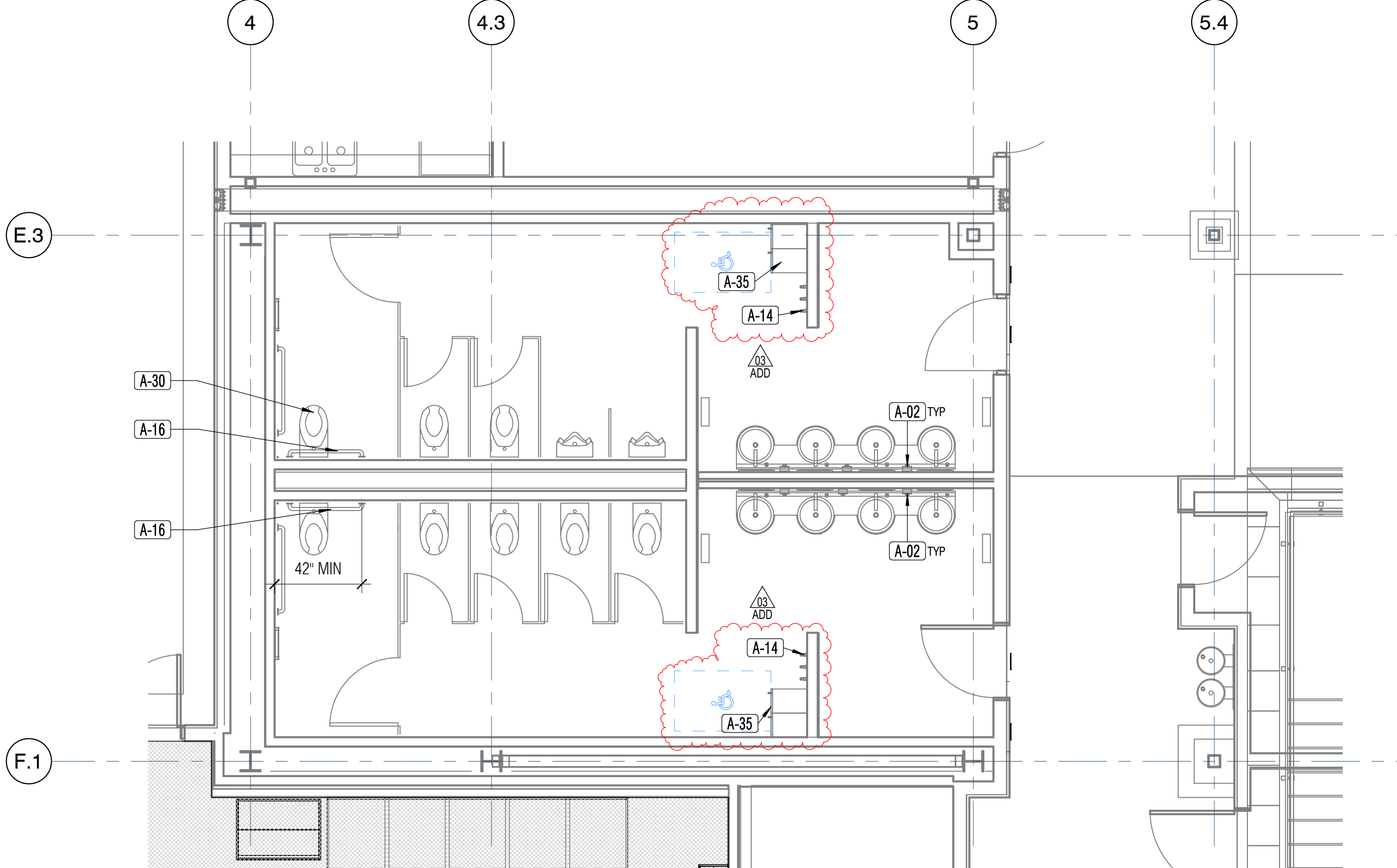
1 FLOOR 1 (EXISTING) DRINKING FOUNTAIN 1
02.23.2 1/4" = 1'-0"



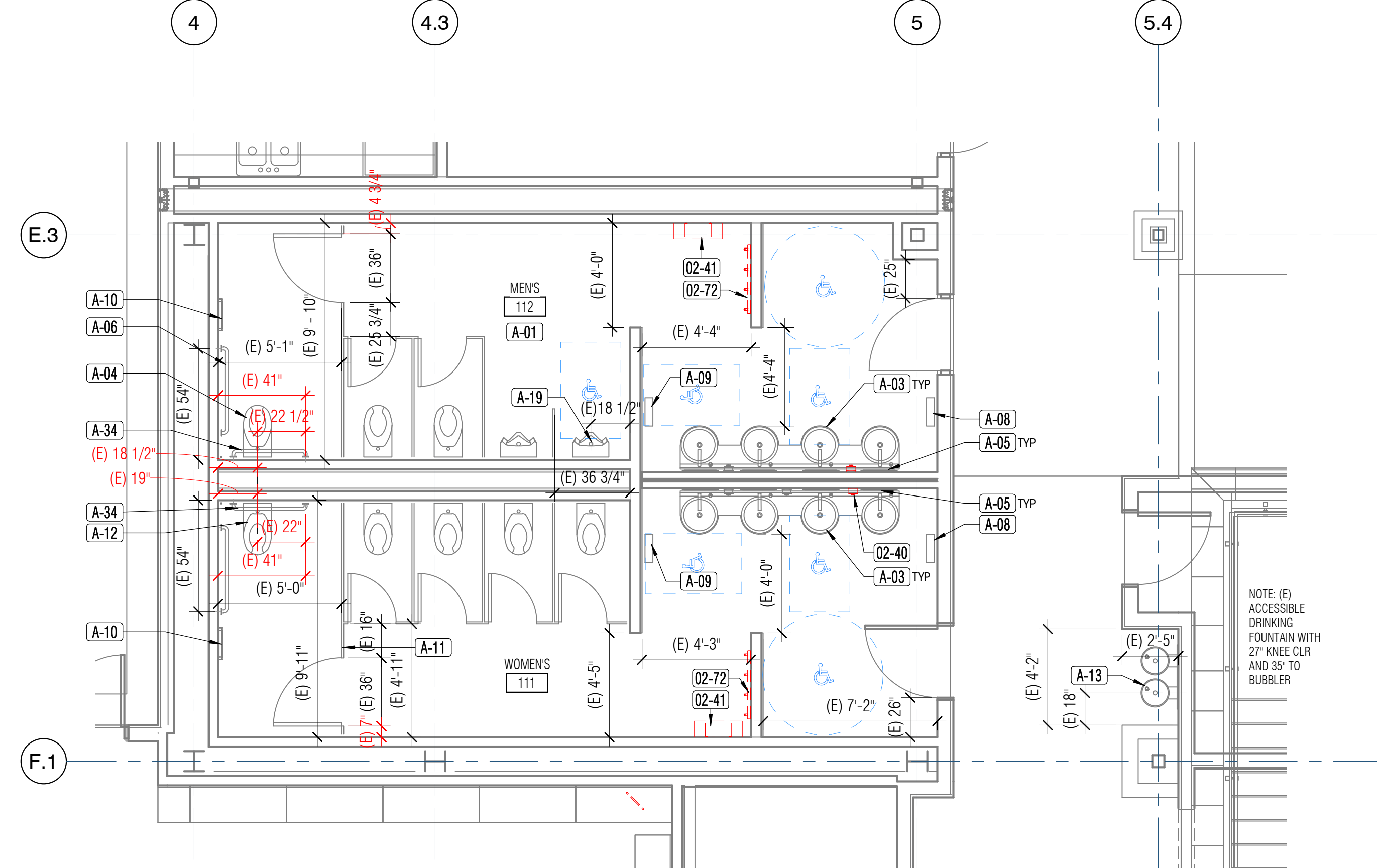
5 LEVEL 1 - FLOOR PLAN - WOMENS 177, MENS 178
02.23.2 1/4" = 1'-0"



2 LEVEL 1 - FLOOR PLAN (EXISTING) - WOMENS 177, MENS 178
02.23.2 1/4" = 1'-0"



6 LEVEL 1 - FLOOR PLAN - WOMENS 111, MENS 112
02.23.2 1/4" = 1'-0"

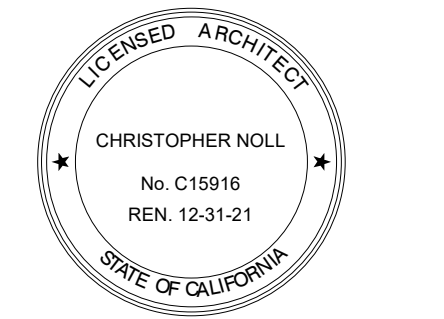


3 LEVEL 1 - FLOOR PLAN (EXISTING) - WOMENS 111, MENS 112
02.23.2 1/4" = 1'-0"

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ARCHITECTS SEAL



PROJECT TITLE

**CONTRA COSTA
CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION &
RENOVATION**

1690 Watermill Rd.
San Ramon, CA 94582

RECORD SET:

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ISSUE TITLE

INCREMENT 2

ISSUE DATE 5/30/2019

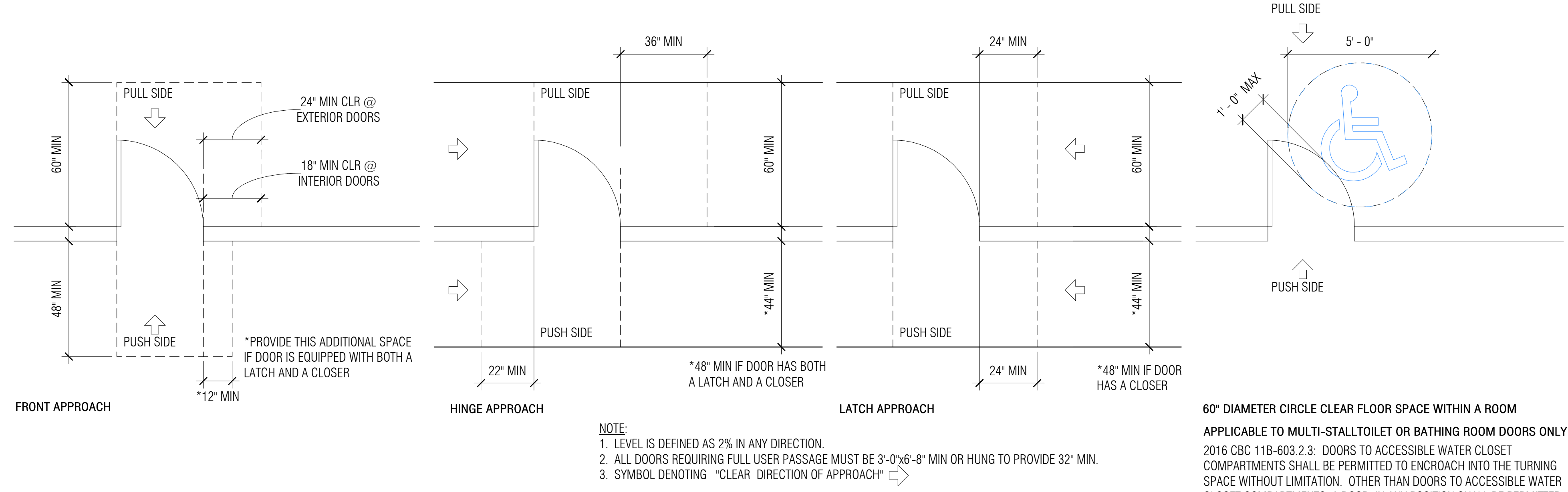
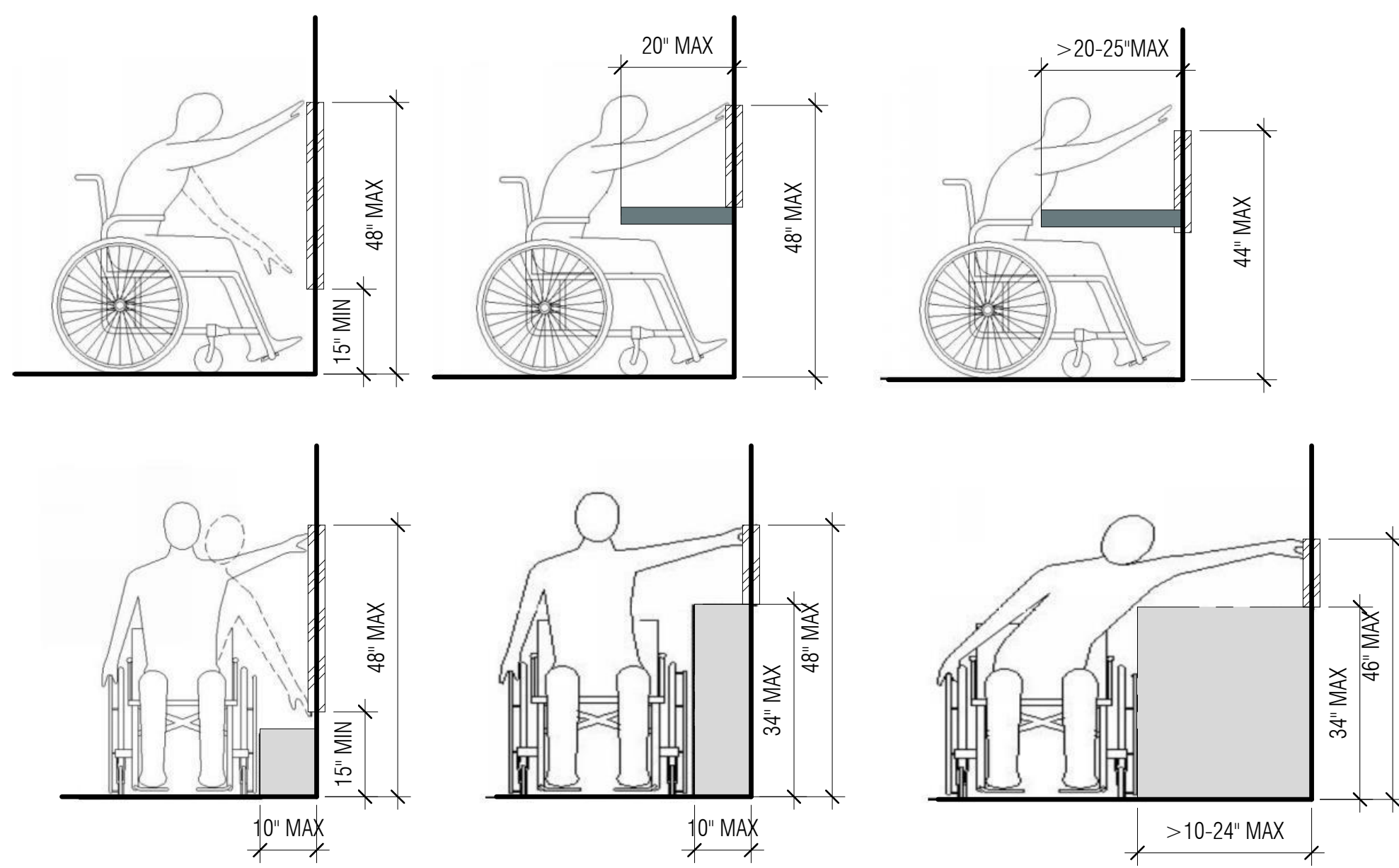
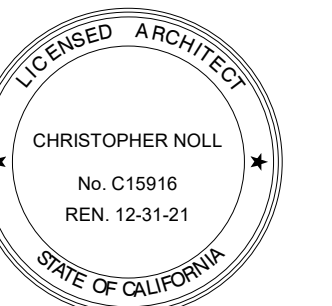
NOLL & TAM JOB NUMBER 21630

| REVISIONS | DATE | DESCRIPTION |
|-----------|-------------------------|-------------|
| 8/27/19 | INC 2 - ADDENDUM 03 | |
| 10/15/19 | INC 2 - ADDENDUM 03 REV | |

SHEET TITLE
**ACCESSIBILITY
COMPLIANCE PLANS -
RESTROOMS 1ST
FLOOR**

SHEET NUMBER

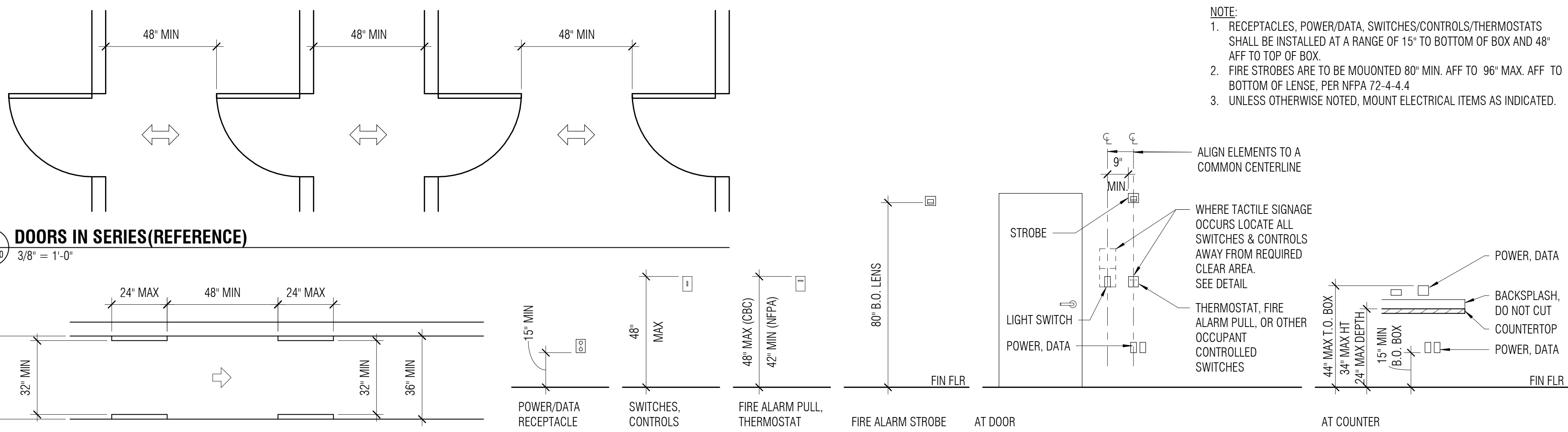
G2.23.2



60" DIAMETER CIRCLE CLEAR FLOOR SPACE WITHIN A ROOM
APPLICABLE TO MULTI-STALL TOILET OR BATHING ROOM DOORS ONLY
2016 CBC 11B-603.2.3: DOORS TO ACCESSIBLE WATER CLOSET COMPARTMENTS SHALL BE PERMITTED TO ENCRoACH INTO THE TURNING SPACE WITHOUT LIMITATION. OTHER THAN DOORS TO ACCESSIBLE WATER CLOSET COMPARTMENTS, A DOOR, IN ANY POSITION SHALL BE PERMITTED TO ENCRoACH INTO THE TURNING SPACE BY 12" MAXIMUM.

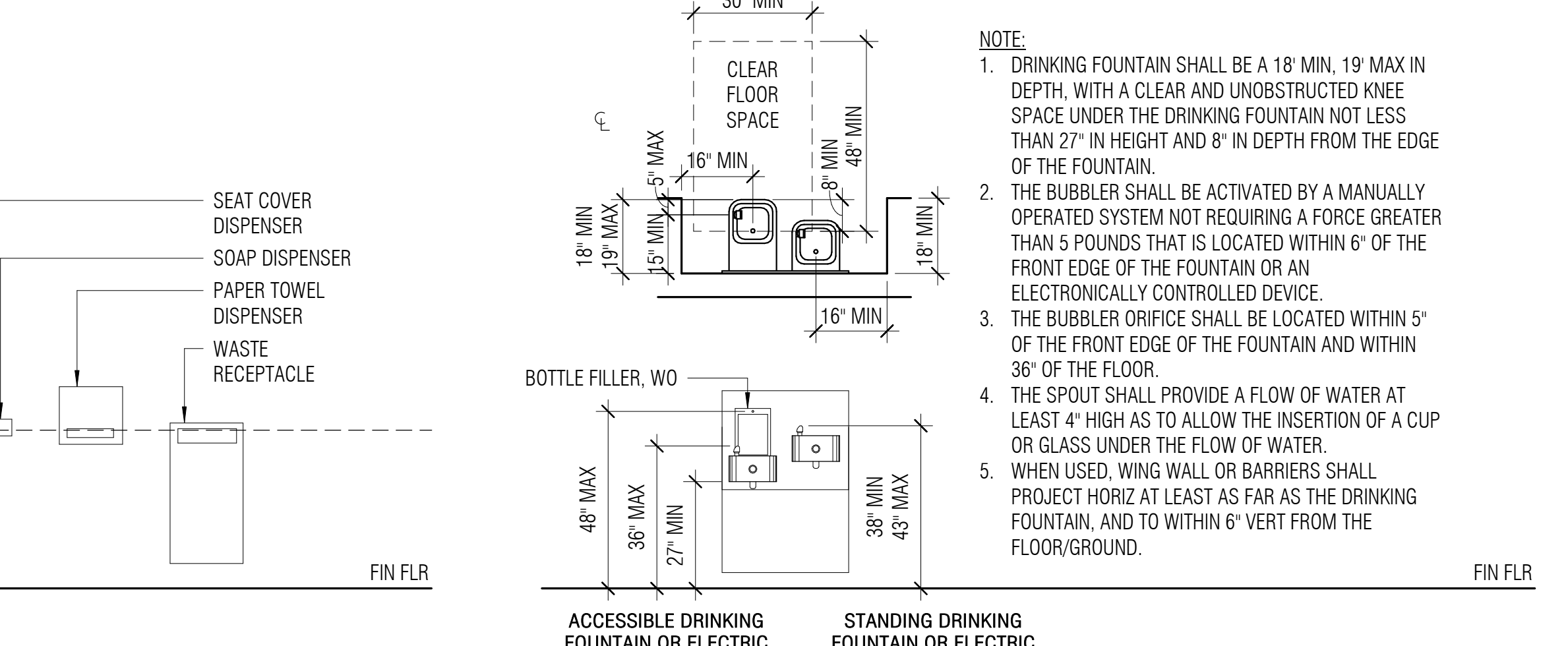
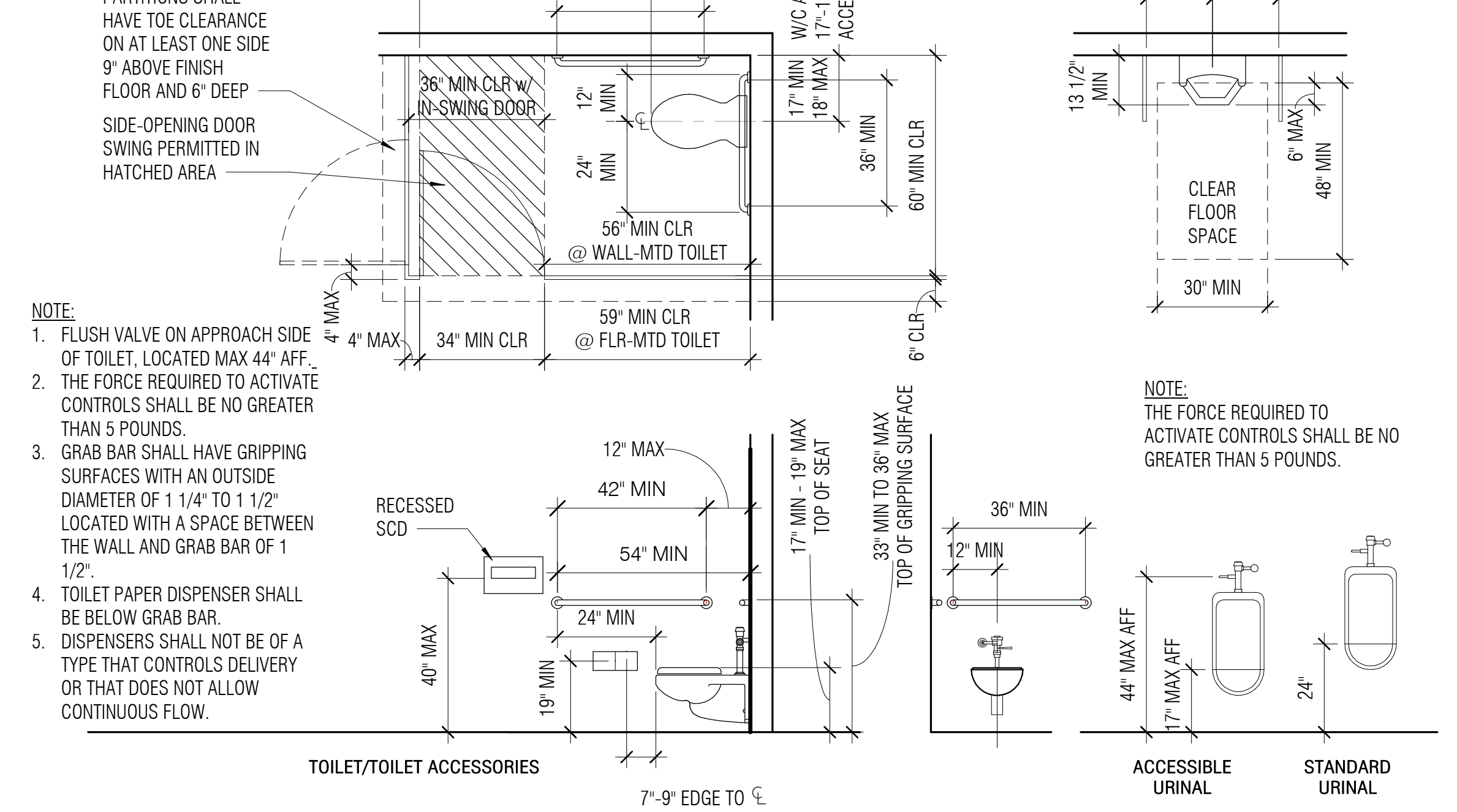
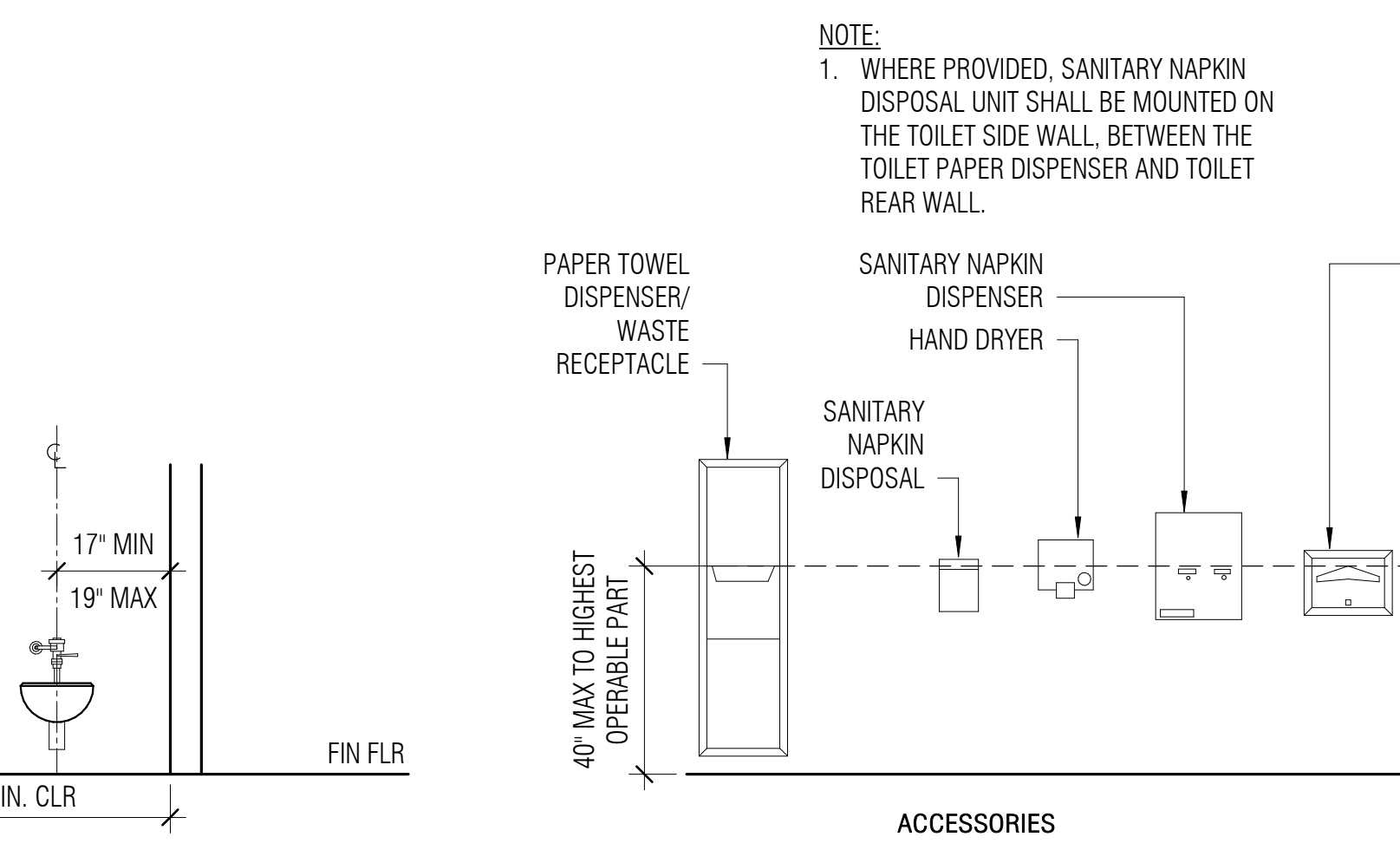
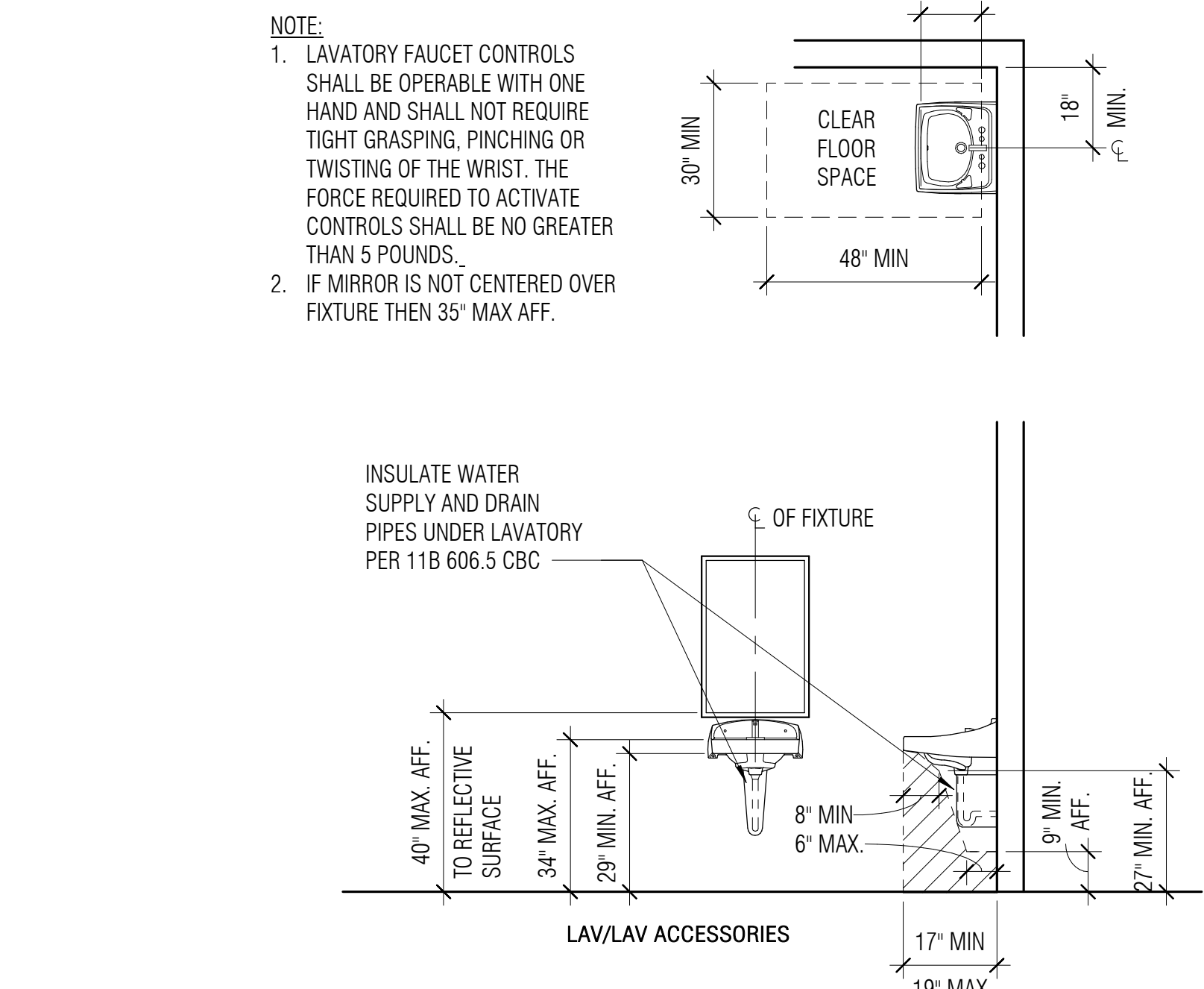
NOTE:
1. LEVEL IS DEFINED AS 2% IN ANY DIRECTION.
2. ALL DOORS REQUIRING FULL USER PASSAGE MUST BE 3'-0" x 6'-8" MIN OR HUNG TO PROVIDE 32" MIN.
3. SYMBOL DENOTING "CLEAR DIRECTION OF APPROACH" →

NOTE:
1. RECEPTACLES, POWER/DATA, SWITCHES/CONTROLS/THERMOSTATS SHALL BE INSTALLED AT A RANGE OF 15" TO BOTTOM OF BOX AND 48" AFF TO TOP OF BOX.
2. FIRE STROBES ARE TO BE MOUNTED 80" MIN. AFF TO 96" MAX. AFF TO BOTTOM OF LENSE, PER NFPA 72-4.4.4
3. UNLESS OTHERWISE NOTED, MOUNT ELECTRICAL ITEMS AS INDICATED.



11 ACCESSIBLE ROUTE WIDTH (REFERENCE)
3/8" = 1'-0"

6 ELEC MOUNTING HTS (REFERENCE)
3/8" = 1'-0"



12 TOILET ROOM MOUNTING HEIGHTS (REFERENCE)
3/8" = 1'-0"

6 ELEC MOUNTING HTS (REFERENCE)
3/8" = 1'-0"

11 ACCESSIBLE ROUTE WIDTH (REFERENCE)
3/8" = 1'-0"

6 ELEC MOUNTING HTS (REFERENCE)
3/8" = 1'-0"

17 REACH RANGES (REFERENCE)
1/2" = 1'-0"

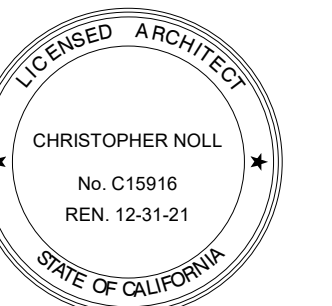
18 TYP MOUNTING HTS (REFERENCE)
3/8" = 1'-0"

19 ACCESSIBLE SYMBOLS (REFERENCE)
3/8" = 1'-0"

15 PROTRUDING OBJECTS (REFERENCE)
3/8" = 1'-0"

12 TOILET ROOM MOUNTING HEIGHTS (REFERENCE)
3/8" = 1'-0"

11 ACCESSIBLE ROUTE WIDTH (REFERENCE)
3/8" = 1'-0"



PROPOSED SEQUENCE OF WORK

INCREMENT 1:

1.1 WORK BEGINS AT EXISTING READ-STUDY TUTORIAL ROOM SINCE IT CAN CO-EXIST IN THE ASSESSMENT LAB 164 DURING CONSTRUCTION DUE TO DIFFERENT OPERATING HOURS. ONCE THIS NEW AREA WITH WAITING AREA IS COMPLETE, THE ASSESSMENT LAB CAN MOVE IN. VACATE THEIR EXISTING SPACE IN EAST BUILDING. WORK INCLUDES REGRADING OF EXISTING ACCESSIBLE PARKING STALLS TO MAKE THEM CODE & ADA COMPLIANT.

1.2 ONCE CERAMIC STUDIO IS NO LONGER OFFERED, AREA IS AVAILABLE FOR CONSTRUCTION ALONG WITH VACATED ASSESSMENT LAB 164. ONCE DRAWING STUDIO AND ENLARGED CLASSROOM 164 ARE COMPLETE, DRAWING STUDIO CAN BE RELOCATED AND CLASSROOM 164 CAN BE USED ALONG WITH CLASSROOM 162. PAINTING IS INDEPENDENT AND MINOR

1.2 ONCE CLASSROOM 162 AND 164 ARE COMPLETE, THE 2ND FLOOR CLASSROOM 229 AND 232 CAN BE RELOCATED DOWNSTAIRS

1.3 WORK FOR THE ANATOMY & PHYSIOLOGY-CADAVER LAB AREAS MAY BEGIN.

1.4 CONFERENCE ROOM AND STORAGE RM ARE TEMPORARY SURGE SPACE FOR THE RELOCATION OF THE MATH-SCIENCE TUTORIAL SPACE.

1.5 WITH VACANCY OF THE TUTORIAL, THE BOOKSTORE SCOPE CAN BEGIN.

INCREMENT 2:

2.1 WORK FOR THE NEW BUILDING CAN BEGIN INDEPENDENTLY OF OTHER SCOPE SINCE IT HOUSES EITHER NEW SCOPE (LIBRARY) OR EXISTING SCOPE (TUTORIAL WHICH ALREADY HAS A LOCATION). ONCE NEW BUILDING IS COMPLETE, THE TUTORIAL CAN MOVE IN.

2.2 ONCE BOOKSTORE IS RELOCATED TO TEMPORARY LOCATION, THE CAFE SCOPE AND ASSOCIATED CAFE SITE IMPROVEMENTS CAN BEGIN. TEMPORARY BARRIER WOULD OVERLAP INTO THE LEARNING COMMONS TO ALLOW FOR WORK TO BE COMPLETED IN THE CAFE AND ADJACENT OFFICE - INCLUDING NEW OPENINGS AND ROLL UP DOOR

2.3 LEARNING COMMONS UPGRADE CAN FOLLOW OR BE DONE SIMULTANEOUS WITH THE CAFE WORK. THE LLRC SHOULD BE COMPLETED PRIOR TO ALLOW FOR LLRC TO SERVE AS EVENT SPACE DURING LEARNING COMMONS UPGRADE

NOTE: PATHWAYS SHALL BE MAINTAINED AROUND PROJECT ALLOWING FOR PUBLIC ACCESS / EGRESS AT STAIRWAYS AT EXISTING BUILDINGS AND FOR CIRCULATION BETWEEN EXISTING BUILDINGS.

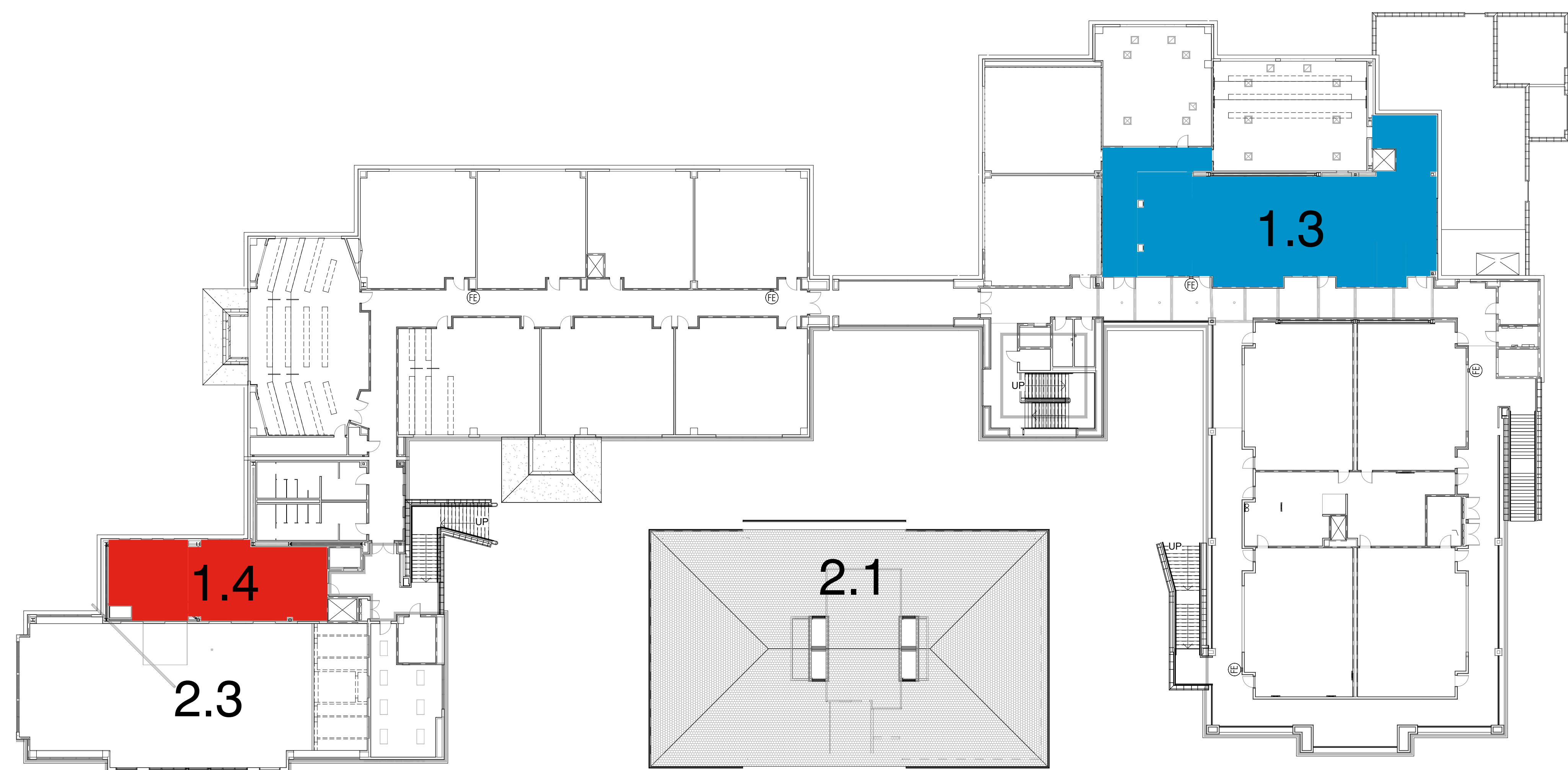


PHASING SEQUENCE Legend

- 1.1
- 1.2
- 1.3
- 1.4
- 1.5
- 2.1
- 2.2
- 2.3

1 01 - FLOOR PLAN - OVERALL - PHASING - ESTIMATE (PRESENTATION)

64.11.2 1" = 20'-0"



PHASING SEQUENCE Legend

- 1.1
- 1.2
- 1.3
- 1.4
- 1.5
- 2.1
- 2.2
- 2.3

2 02 - FLOOR PLAN - OVERALL - PHASING - ESTIMATE (PRESENTATION)

64.11.2 1" = 20'-0"

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INCREMENT 2

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NOLL & TAM JOB NUMBER 21630

| REVISIONS | DATE | DESCRIPTION |
|-----------|---------|---------------------|
| △ | 8/27/19 | INC 2 - ADDENDUM 03 |

SHEET TITLE

PHASING PLAN

SHEET NUMBER

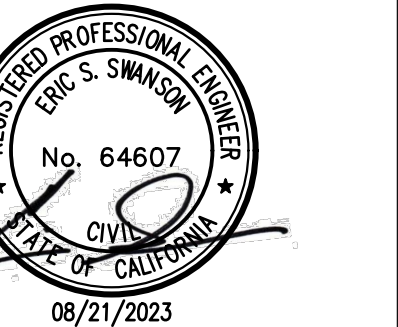
G4.11.2

NOLL & TAM ARCHITECTS

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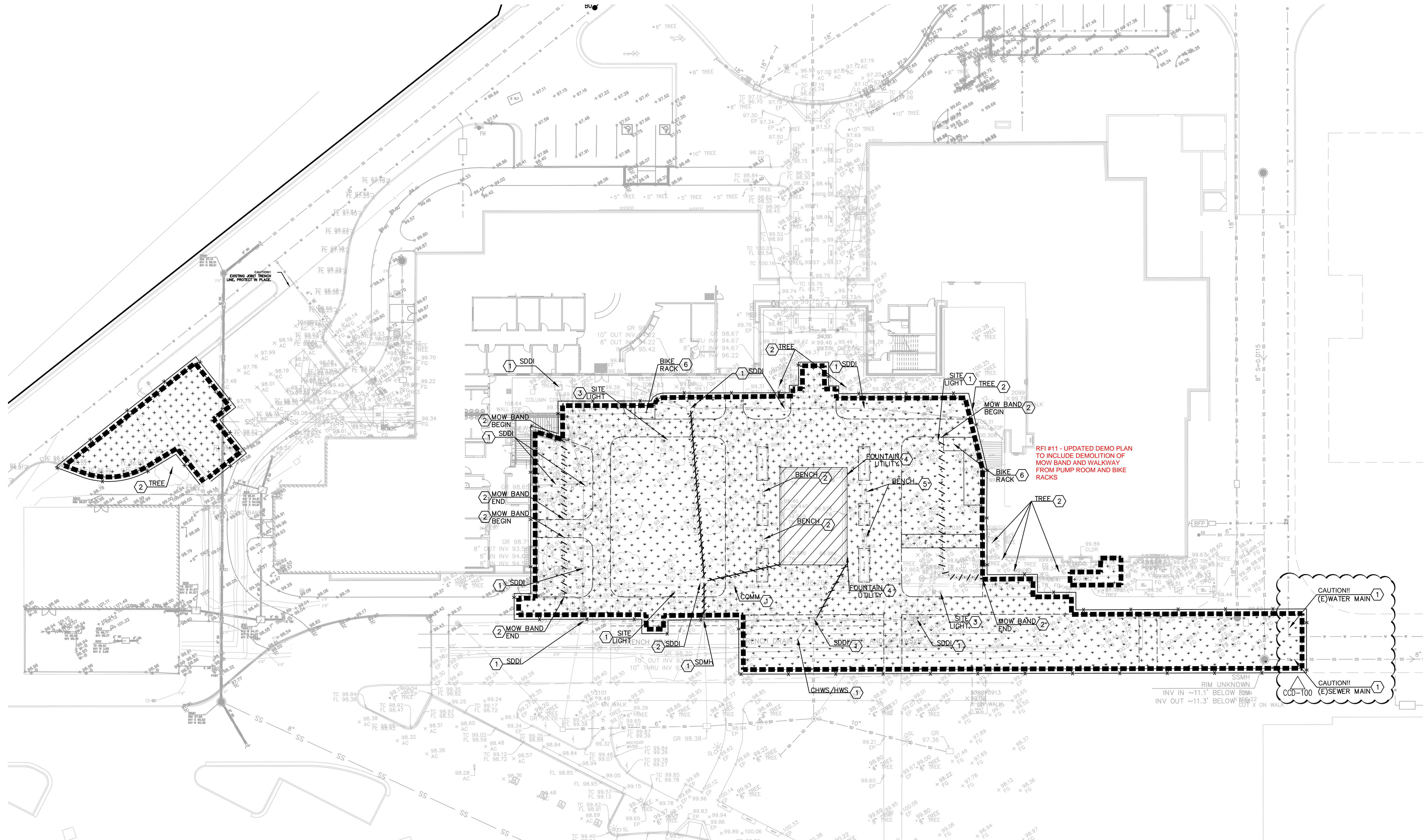
NOLL & TAM JOB NUMBER 21630

| REVISIONS | DATE | DESCRIPTION |
|-----------|----------|---------------------|
| INC 2 | 8/2/19 | INC 2 - ADDENDUM 02 |
| INC 2 | 8/27/19 | INC 2 - ADDENDUM 03 |
| AS-BUILT | 11/12/19 | AS-BUILT CCD-A-100 |
| AS-BUILT | 03/07/20 | AS-BUILT CCD-A-100 |
| AS-BUILT | 04/07/20 | CCDA-102 |
| AS-BUILT | 08/11/20 | AS-20 |

SHEET TITLE
DEMOLITION PLAN

SHEET NUMBER

C1.1



DEMOLITION NOTES:

- WITHIN LIMIT OF DEMOLITION, REMOVE ALL ASPHALT, AGGREGATE BASE, CONCRETE, TOPSOIL, ORGANIC MATERIAL, AND MISCELLANEOUS ITEMS UNLESS OTHERWISE NOTED ON PLANS. EXCAVATE TO PAD ELEVATION OR SUBGRADE DEPTH FOR NEW ASPHALT OR CONCRETE SECTIONS. THIS NOTE DOES NOT APPLY TO EXISTING TREES. EXISTING TREES SHOWN FOR COORDINATION PURPOSES ONLY. SEE LANDSCAPE PLANS FOR ALL TREE PROTECTION AND/OR REMOVAL INFORMATION. SEE ARCHITECTURAL DEMOLITION SITE PLAN FOR REMOVAL INFORMATION. PAVING SHALL BE REMOVED TO NEAREST CONTROL OR CONSTRUCTION JOINT.
- SEE ARCHITECTURAL AND/OR STRUCTURAL PLANS FOR DEMOLITION OF EXISTING BUILDINGS.
- PROTECT ALL EXISTING UNDERGROUND UTILITIES UNLESS OTHERWISE NOTED ON THE PLAN.
- UTILITIES SHOWN ON THIS PLAN ARE DERIVED FROM RECORD DATA, SURFACE OBSERVATION, AND FIELD SURVEY. ACTUAL LOCATIONS AND SIZE, TOGETHER WITH THE PRESENCE OF ANY ADDITIONAL UTILITIES NOT SHOWN ON THIS PLAN SHALL BE VERIFIED BY CONTRACTOR PRIOR TO DEMOLITION.
- DEMOLITION OF UTILITIES TO BE STAGED BY CONTRACTOR SO THAT EXISTING SERVICES IN USE ARE NOT INTERRUPTED.
- PROTECT EXISTING TREE ROOTS AND SOIL. COORDINATE EXCAVATION WITH CITY ARBORIST PRIOR TO HAND TRENCHING. HAND TRENCH WITHIN THE ROOT ZONES.
- LIMIT OF DEMOLITION SHOWN IS APPROXIMATE. REFER TO IMPROVEMENT PLANS FOR LIMITS OF IMPROVEMENT WORK PRIOR TO DEMOLITION.
- SAWCUTTING, TRENCH EXCAVATION, AND DEMOLITION ASSOCIATED WITH PROPOSED UNDERGROUND UTILITY IMPROVEMENTS IS NOT SHOWN ON THIS PLAN. REFER TO UTILITY PLAN FOR PROPOSED UTILITY INFORMATION. REPLACE PLANTING AND PAVING IN-KIND TO MATCH EXISTING WHERE EXISTING CONDITIONS ARE DISRUPTED FOR NEW WORK. PAVING SHALL BE REMOVED TO NEAREST CONTROL OR CONSTRUCTION JOINT.
- EXISTING DRAINAGE SHALL BE MAINTAINED UNTIL NEW STORM DRAIN LINES ARE INSTALLED.
- CONTRACTOR MAY TEMPORARILY CAP UTILITY LINES AT PROPERTY LINE, BUT SHALL REMOVE ALL UTILITY LINES UP TO THE UTILITY MAIN PRIOR TO DEMOBILIZATION.
- CONTRACTOR SHALL DISCUSS WITH THE DISTRICT AND MAINTAIN PEDESTRIAN AND ACCESSIBLE ACCESS TO ADJACENT EXISTING BUILDINGS.
- CONTRACTOR SHALL MAINTAIN ACCESSIBLE PATH TO ALL EXISTING ENTRANCES.
- WITHIN THE DEMOLITION LIMIT, CONTRACTOR SHALL REMOVE EXISTING IRRIGATION LINES. CONTRACTOR SHALL RECONNECT ANY AFFECTED IRRIGATION LINES THAT WERE OUTSIDE OF THE DEMOLITION LIMIT AND PROGRAM THEM AS THEY WERE PREVIOUS INTENDED TO FUNCTION.

DEMOLITION KEYNOTES:

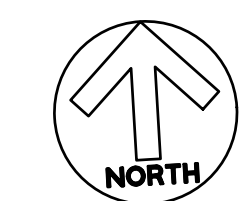
- TO BE PROTECTED
- TO BE REMOVED
- TO BE RELOCATED. SEE HORIZONTAL CONTROL PLAN FOR NEW LOCATION.
- WATER AND ELECTRICAL LINES ASSOCIATED WITH THE EXISTING FOUNTAIN. REFER TO FOUNTAIN RECORD DRAWINGS FOR MORE INFORMATION
- SALVAGE AND RETURN TO SCHOOL DISTRICT
- REMOVE AND SALVAGE FOR RELOCATION

DEMOLITION LEGEND:

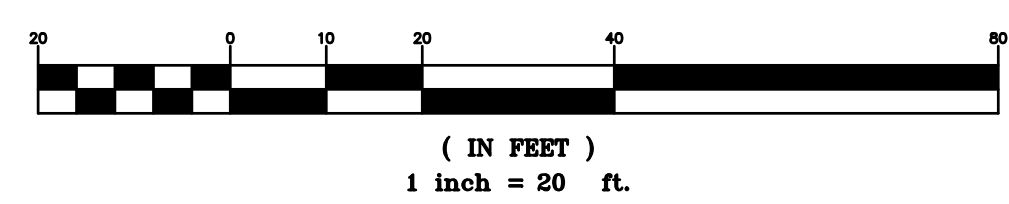
- LIMIT OF DEMOLITION
- CONSTRUCTION FENCE
- UTILITY LINE TO BE REMOVED
- DEMOLISH HARDSCAPE
- EXISTING FOUNTAIN DEMOLITION (SEE ARCHITECTURAL PLANS)
- CLEAR AND GRUB

ABBREVIATIONS:

- SDDI STORM DRAIN INLET
- SD STORM DRAIN
- FC FINISHED GRADE
- TW TOP OF WALL
- CLDR CENTERLINE OF DOOR
- SL SITE LIGHT
- EP EDGE OF PAVEMENT



GRAPHIC SCALE





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INCREMENT 2

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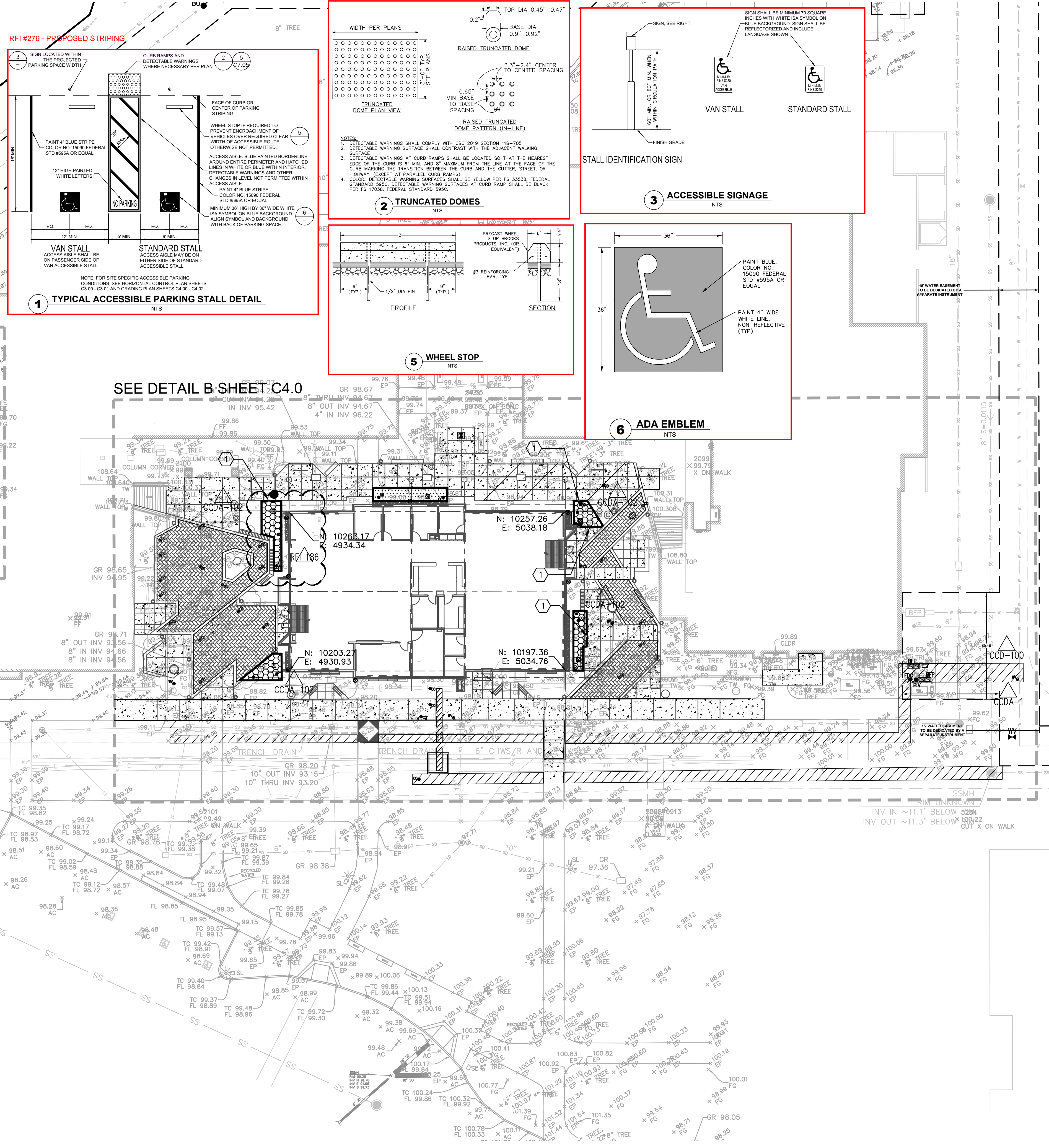
| REVISIONS | DATE | DESCRIPTION |
|-----------|---------------------|-------------|
| 8/2/19 | INC 2 - ADDENDUM 02 | |
| 8/27/19 | INC 2 - ADDENDUM 03 | |
| 11/12/19 | ASI #3 CCD-A-1 | |
| 03/01/20 | ASI #3 CCD-A-100 | |
| 04/07/20 | CCDA-102 | |
| 08/11/20 | ASI 20 | |

SHEET TITLE

HORIZONTAL CONTROL

SHEET NUMBER

C2.0



SEE DETAIL A SHEET C4.0

SEE DETAIL B SHEET C4.0

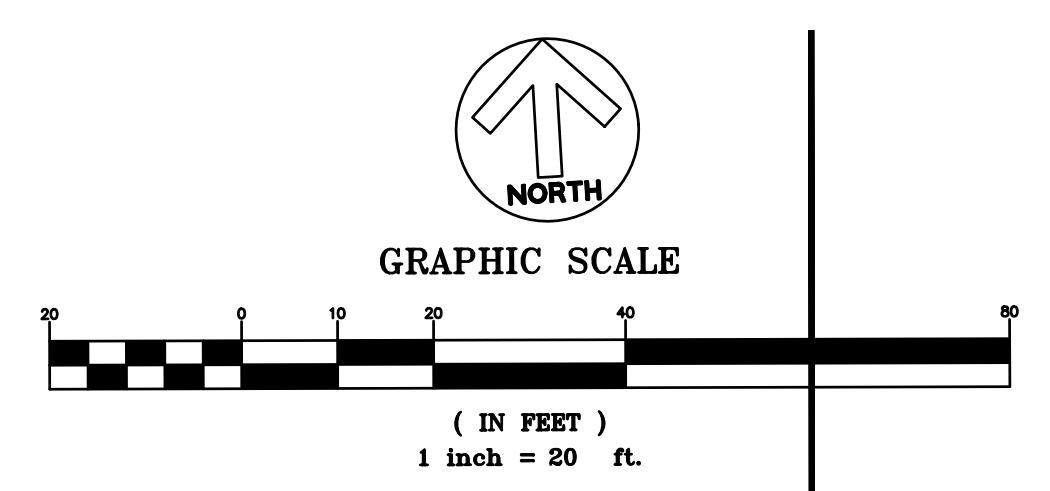
LEGEND:

| | |
|--|---|
| | 4" PCC OVER 4" CLASS II AB. SEE LANDSCAPE PLANS FOR COLOR AND FINISH. |
| | CONCRETE APRON AT TRASH ENCLOSURE. 6" PCC OVER 8" CRUSHED AGGREGATE BASE WITH #3 BARS 18" O.C. BOTH DIRECTIONS. |
| | PEDESTRIAN PERMEABLE PAVERS PER DETAIL 1, SHEET C3.0 |
| | RAISED FLOW THROUGH PLANTER PER DETAIL 3 SHEET C5.0 |
| | BRACED FLOW THROUGH PLANTER PER DETAIL 4 SHEET C5.0 |
| | TURF BLOCK, SEE NOTE 5. |
| | ASPHALT (T.I.=7; R-VALUE=5) 5" AC OVER 13.5" CLASS II AB SEE NOTE 5. |
| | FLOW THROUGH PLANTER WALL |

- NOTES:**
- ALL DISTANCES AND DIMENSIONS ARE IN FEET AND TO FACE OF CURB UNLESS OTHERWISE NOTED ON PLANS. DESIGN IS BASED ON THE "GEO-TECHNICAL INVESTIGATION FOR PROPOSED NEW TUTORIAL LIBRARY BUILDING" PREPARED BY RMA GROUP DATED APRIL 19, 2018.
 - THE CONTRACTOR IS RESPONSIBLE FOR MATCHING EXISTING STREETS, SURROUNDING LANDSCAPE AND OTHER IMPROVEMENTS WITH A SMOOTH TRANSITION IN PAVING, CURBS AND SIDEWALKS, GRADING, ETC. AND TO AVOID ABRUPT OR APPARENT CHANGES.
 - REFER TO LANDSCAPE AND ARCHITECTURAL PLANS FOR BUILDING DETAILS.
 - CONTRACTOR SHALL RESTORE ALL EXISTING WALLS, FENCES, SERVICES, UTILITIES, OR OTHER FEATURES OF WHATEVER NATURE WHICH ARE DAMAGED, DUE TO CONTRACTOR'S WORK, TO THEIR PREVIOUS CONDITION UNLESS OTHERWISE NOTED. REPLACE PAVING AND PLANTING IN KIND TO MATCH EXISTING WHERE EXISTING CONDITIONS ARE DISRUPTED FOR NEW UNDERGROUND WORK. PAVING SHALL BE REMOVED TO NEAREST CONTROL OR CONSTRUCTION JOINT.

- KEYNOTES**
- CURB CUTS PER DETAIL 7 SHEET C5.0
 - PROTECT ENTRY CANOPY FROM INCREMENT 1 IMPROVEMENTS. PAVING SHALL BE REMOVED TO THE NEAREST CONTROL OR CONSTRUCTION JOINT.
 - TRASH ENCLOSURE PER CENTRAL CONTRA CO SANITARY DISTRICT TYPICAL DETAIL.
- ABBREVIATIONS:**
- | | |
|------|-------------------------|
| SDDI | STORM DRAIN DRAIN INLET |
| SD | STORM DRAIN |
| FG | FINISHED GRADE |
| TW | TOP OF WALL |
| CLDR | CENTRELINE OF DOOR |
| SL | SITE LIGHT |
| EP | EDGE OF PAVEMENT |

PER #257 - GRASS PAVE2 - THE SUBGRADE SOILS UNDERLYING THE GRASSPAVE2 SHALL BE COMPACTED TO 95% RELATIVE COMPACTION AND THE CONTRACTOR SHALL PLACE 12" OF CLASS II AB, ALSO COMPACTED TO 95% RELATIVE COMPACTION.



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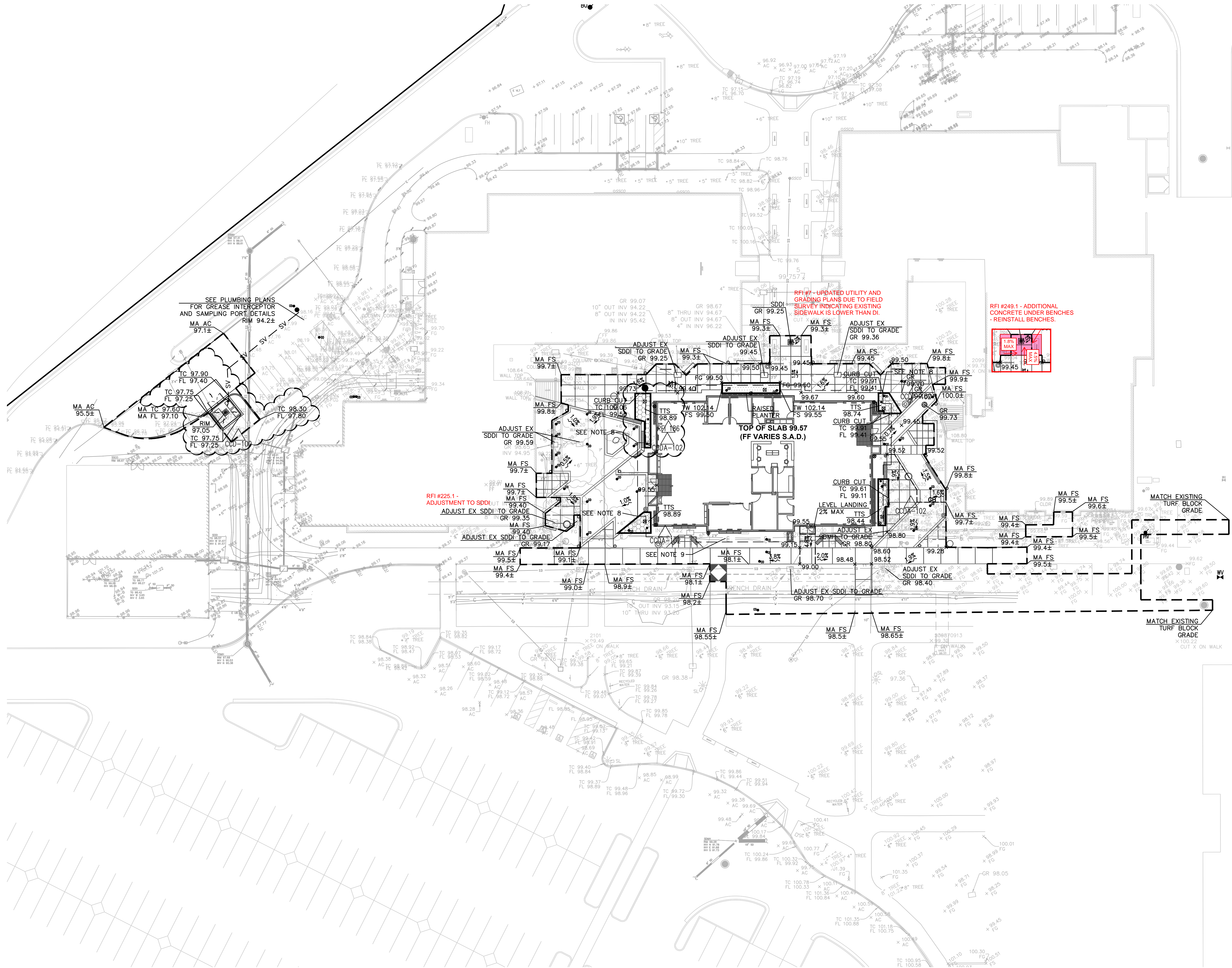
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| | 8/2/19 | INC 2 - ADDENDUM 02 |
| | 8/27/19 | INC 2 - ADDENDUM 03 |
| | 11/12/19 | ASI #3 CCD-A-1 |
| | 02/07/20 | ASI #3 CCD-A-100 |
| | 04/07/20 | CCDA-102 |
| | 08/11/20 | ASI 20 |

SHEET TITLE
GRADING PLAN

SHEET NUMBER

C3.0



SEE PLUMBING PLANS FOR GREASE INTERCEPTOR AND SAMPLING PORT DETAILS RIM 94.2±

RFI #7 - UPDATED UTILITY AND GRADING PLANS DUE TO FIELD SURVEY INDICATING EXISTING SIDEWALK IS LOWER THAN DI.

RFI #249.1 - ADDITIONAL CONCRETE UNDER BENCHES - REINSTALL BENCHES

RFI #225.1 - ADJUSTMENT TO SDDI TO GRADE

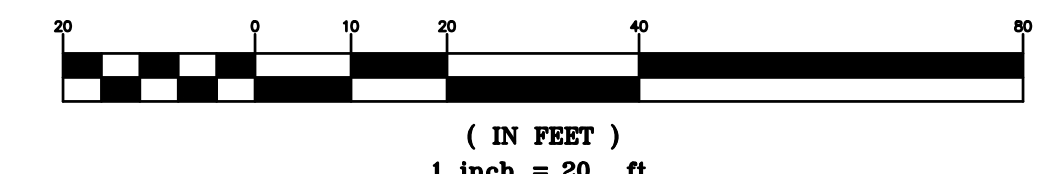
GRADING LEGEND:

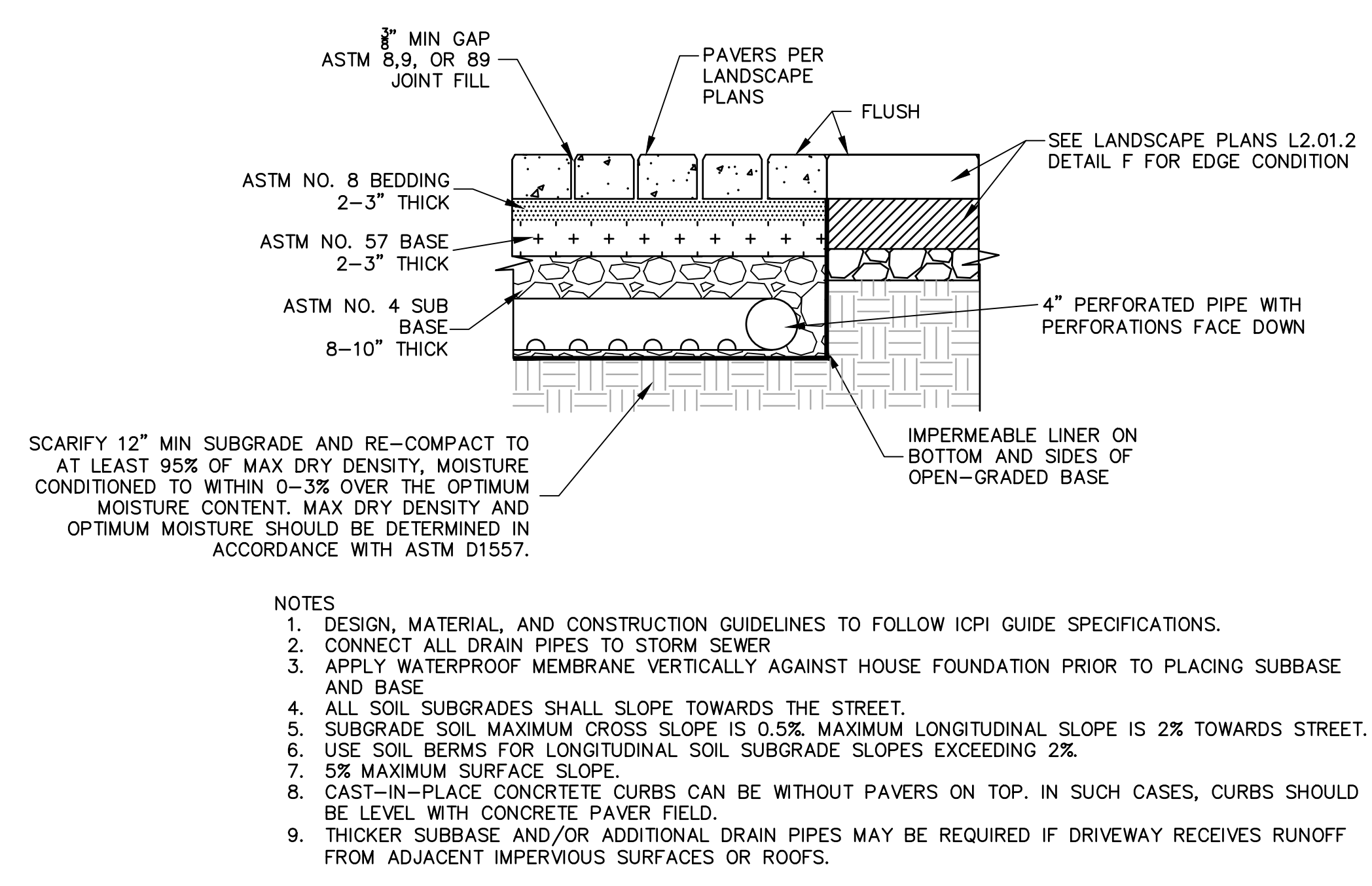
- LIMIT OF GRADING
- PROPOSED FLOW DIRECTION
- FLOWLINE
- GB — GRADE BREAK
- DRAINAGE INLET (E) EXISTING
- (N) NEW
- AC ASPHALT
- BOT BOTTOM
- BW BACK OF WALK
- CO CLEANOUT
- DI DRAIN INLET
- FG FINISHED FLOOR
- FG FINISHED GRADE (EARTH)
- FL FLOWLINE
- FS FINISHED SURFACE (AC OR PCC)
- GB GRADE BREAK
- GR GRATE
- LP LOW POINT
- MA MATCH
- PERF PERFORATED
- SD STORM DRAIN
- SS SANITARY SEWER
- TC TOP OF CURB
- TS TOP OF SOIL
- TTS TOP OF TREATMENT SOIL
- TW TOP OF WALL

- NOTES:**
1. TC ELEVATION SHOWN IS FOR 6" CURB HEIGHT UNLESS OTHERWISE NOTED ON PLAN.
 2. ALL EXISTING UTILITY COVERS WITHIN LIMIT OF WORK ARE TO BE ADJUSTED TO GRADES SHOWN ON PLAN.
 3. SEE LANDSCAPE PLANS FOR ALL GRADING IN LANDSCAPE AREAS.
 4. FOR WALKS AND IN ADA ACCESSIBLE AREAS CROSS SLOPES SHOULD NOT EXCEED 2% GRADE.
 5. IF DURING CONSTRUCTION, ARCHEOLOGICAL OR NATIVE AMERICAN REMAINS OR ARTIFACTS ARE ENCOUNTERED, THE CONTRACTOR SHALL HALT CONSTRUCTION IN THE VICINITY AND SHALL NOTIFY THE CITY OF SAN RAMON BUILDING DEPARTMENT.
 6. REFERENCE: "GEOTECHNICAL INVESTIGATION FOR PROPOSED NEW TUTORIAL LIBRARY BUILDING DIABLO VALLEY COLLEGE - SAN RAMON CAMPUS 1690 WATERMILL ROAD SAN RAMON, CA" BY RMA GROUP
 7. CONTRACTOR SHALL CONFORM TO EXISTING TRENCH DRAIN AND MAINTAIN EXISTING DRAINAGE
 8. OVEREXCAVATE BUILDING PAD TO A DISTANCE OF 5 FEET FROM THE PROPOSED BUILDING FACE. EXCAVATE DOWN 5 FEET AND SCARIFY 12 INCHES WITH NATIVE BACKFILL. THE REMAINING 4 FEET SHOULD BE REPLACED WITH ENGINEERED FILL OR CHEMICALLY TREATED NATIVE BACKFILL.
 9. POT HOLE EXISTING COMMUNICATIONS LINES PRIOR TO EXCAVATING BUILDING FOUNDATION AND PROVIDE DEPTHS TO CIVIL ENGINEER.

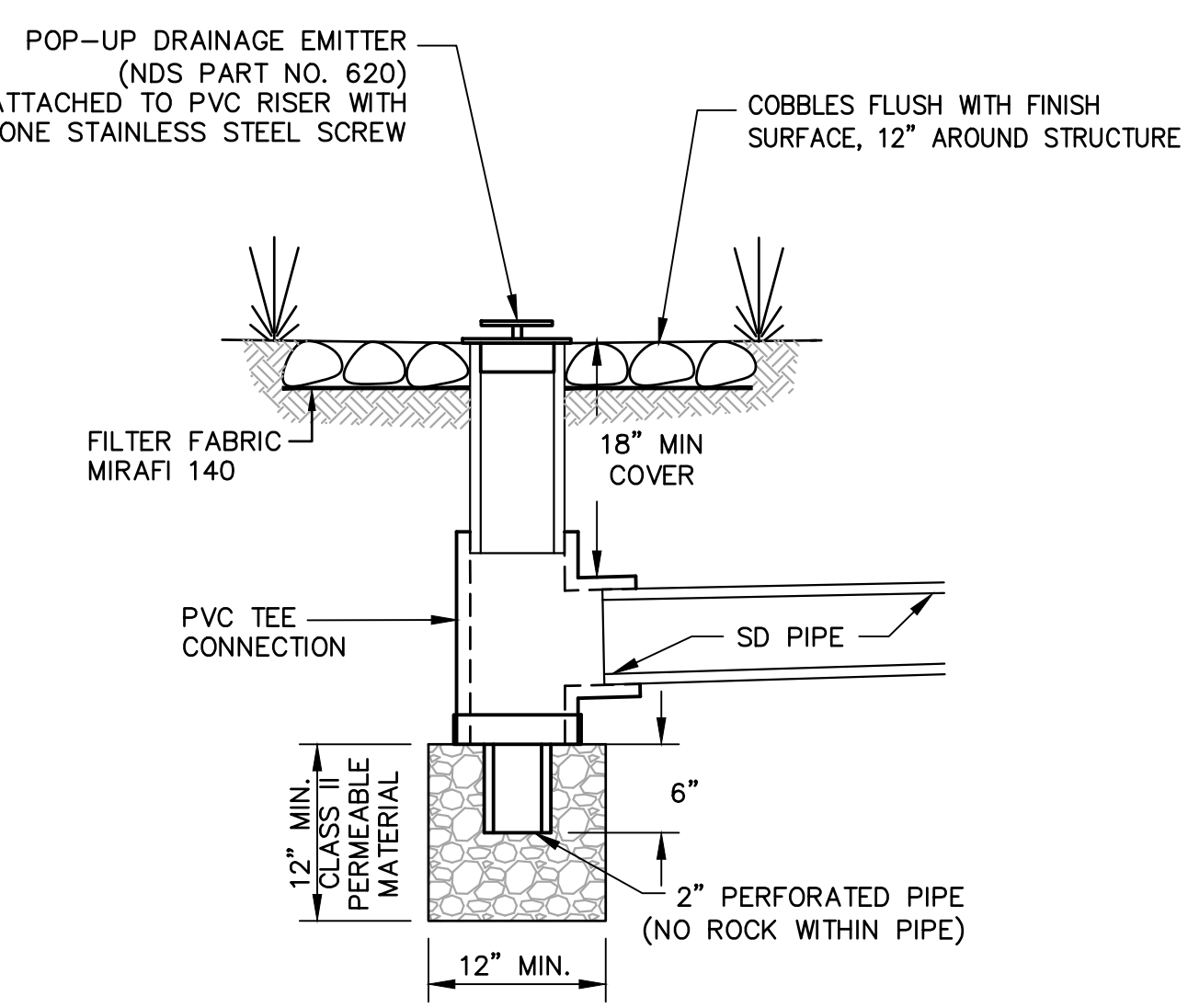


GRAPHIC SCALE

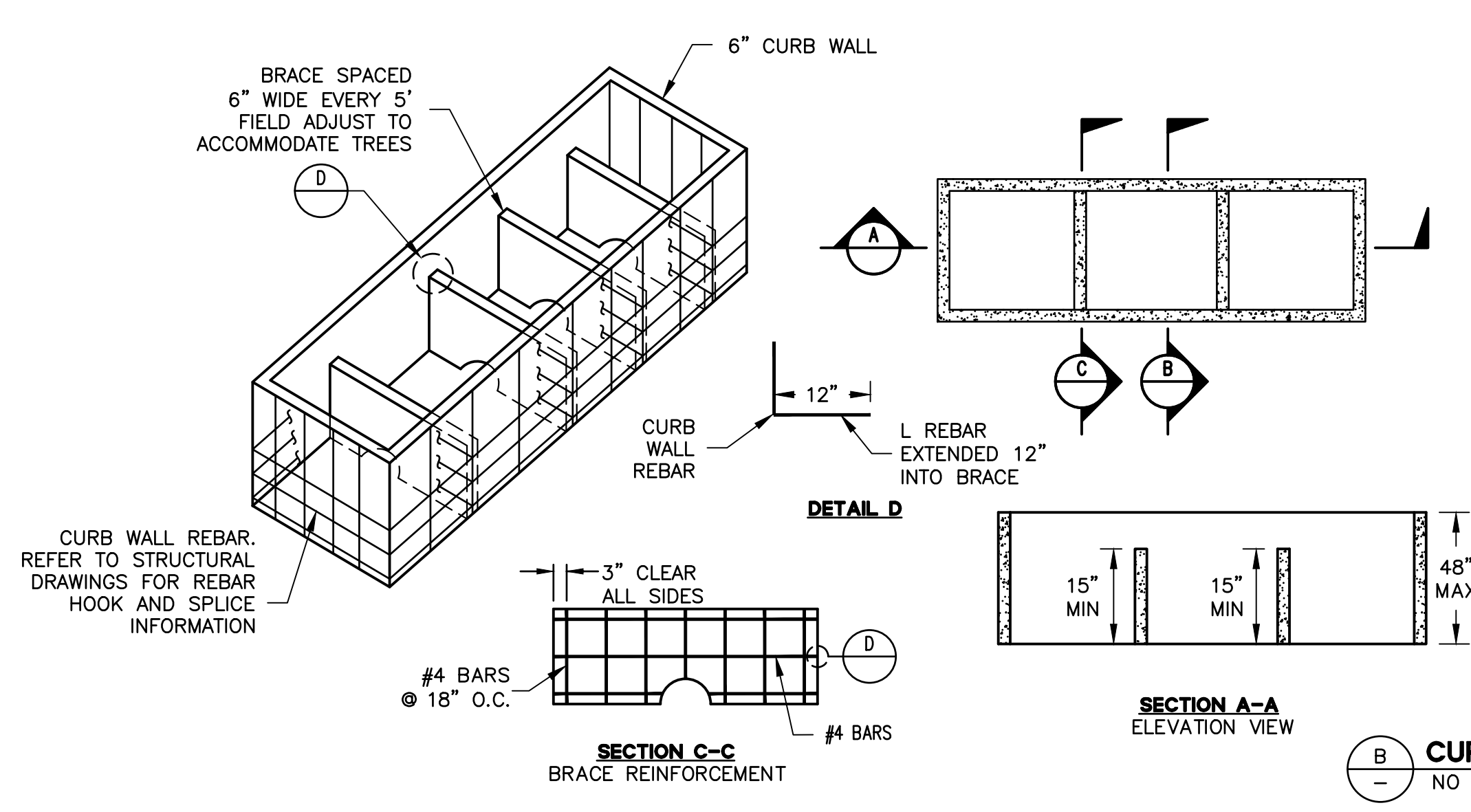




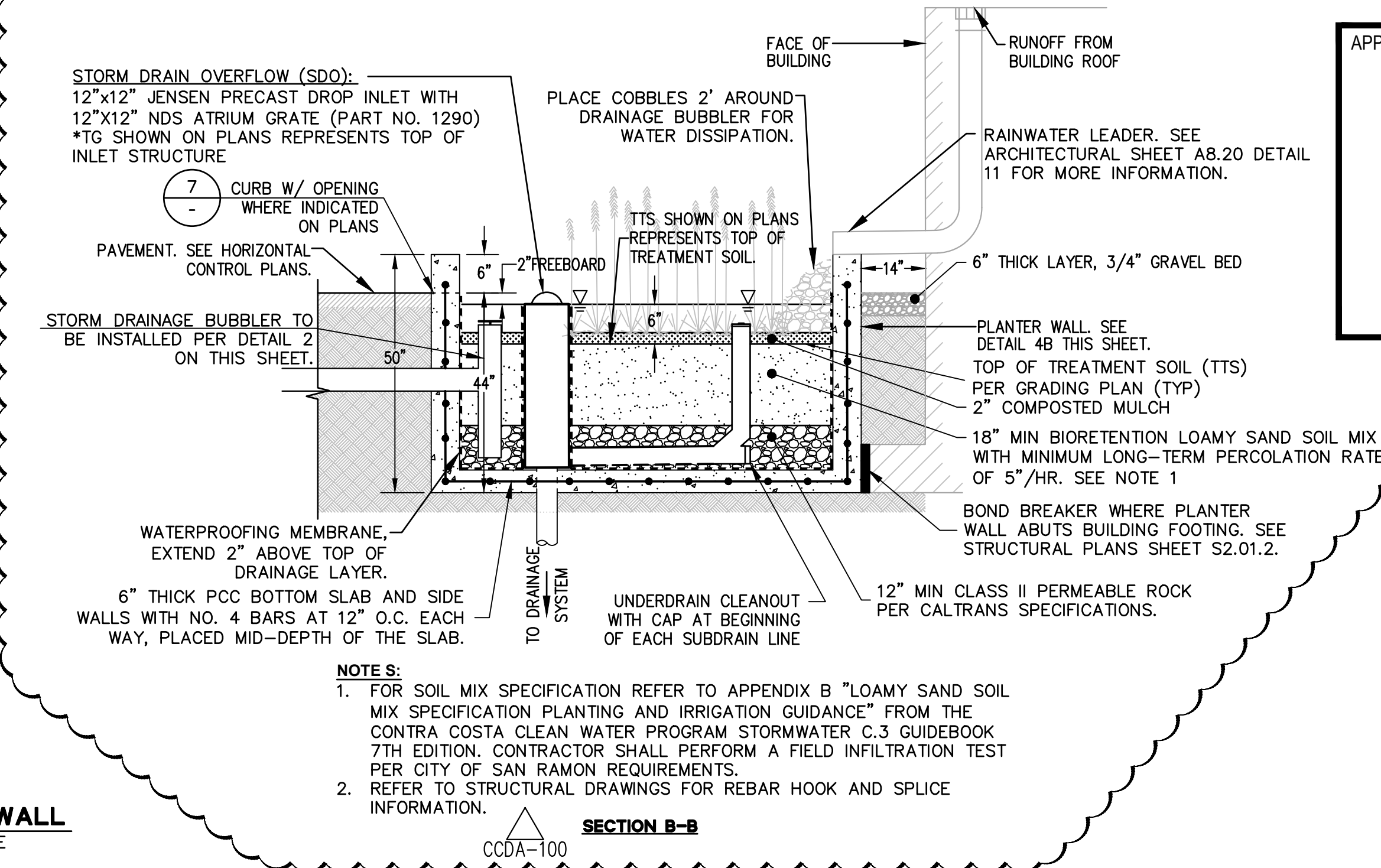
1 PERMEABLE PAVEMENT
NTS



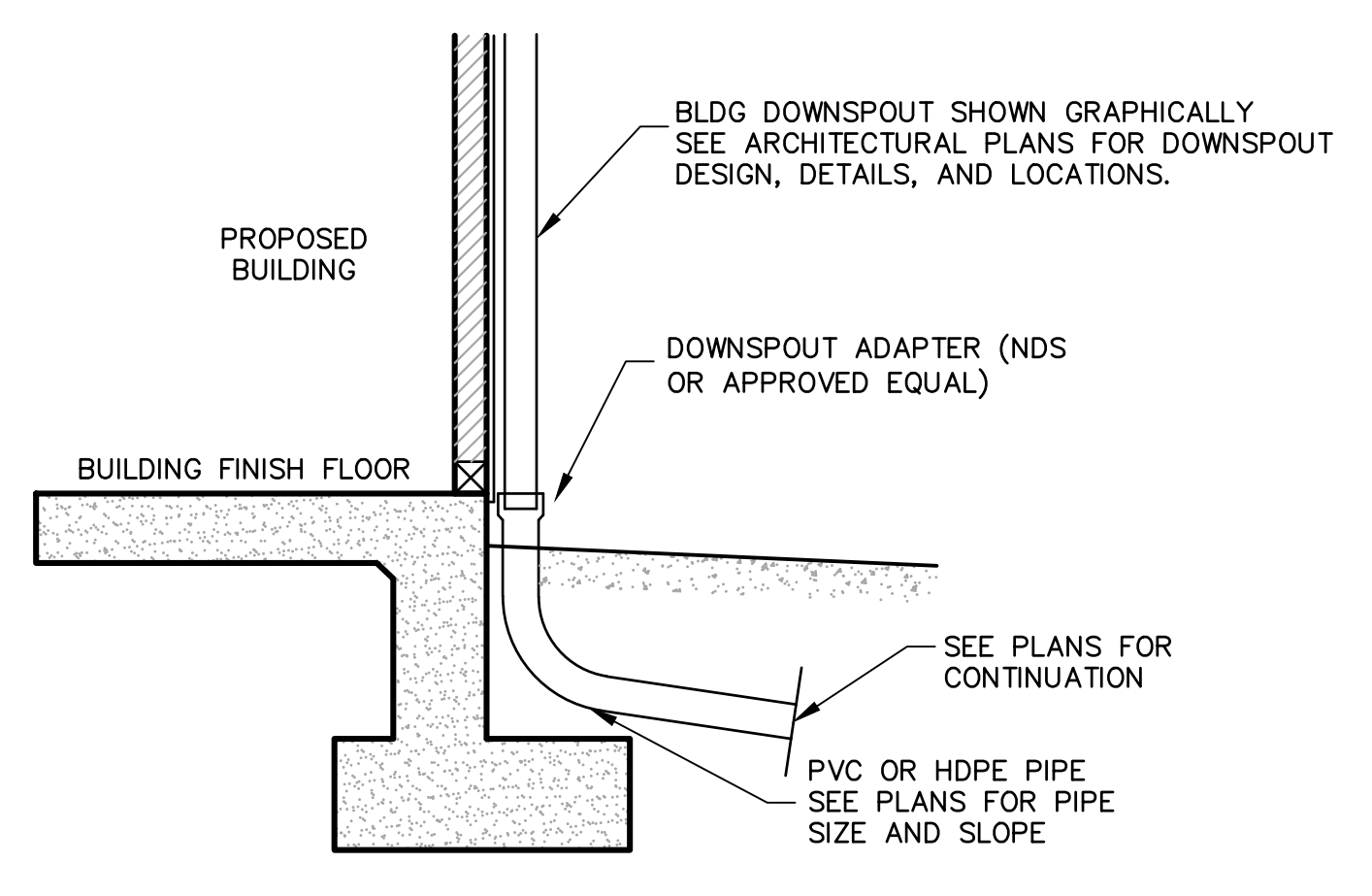
2 DRAINAGE BUBBLER
NTS



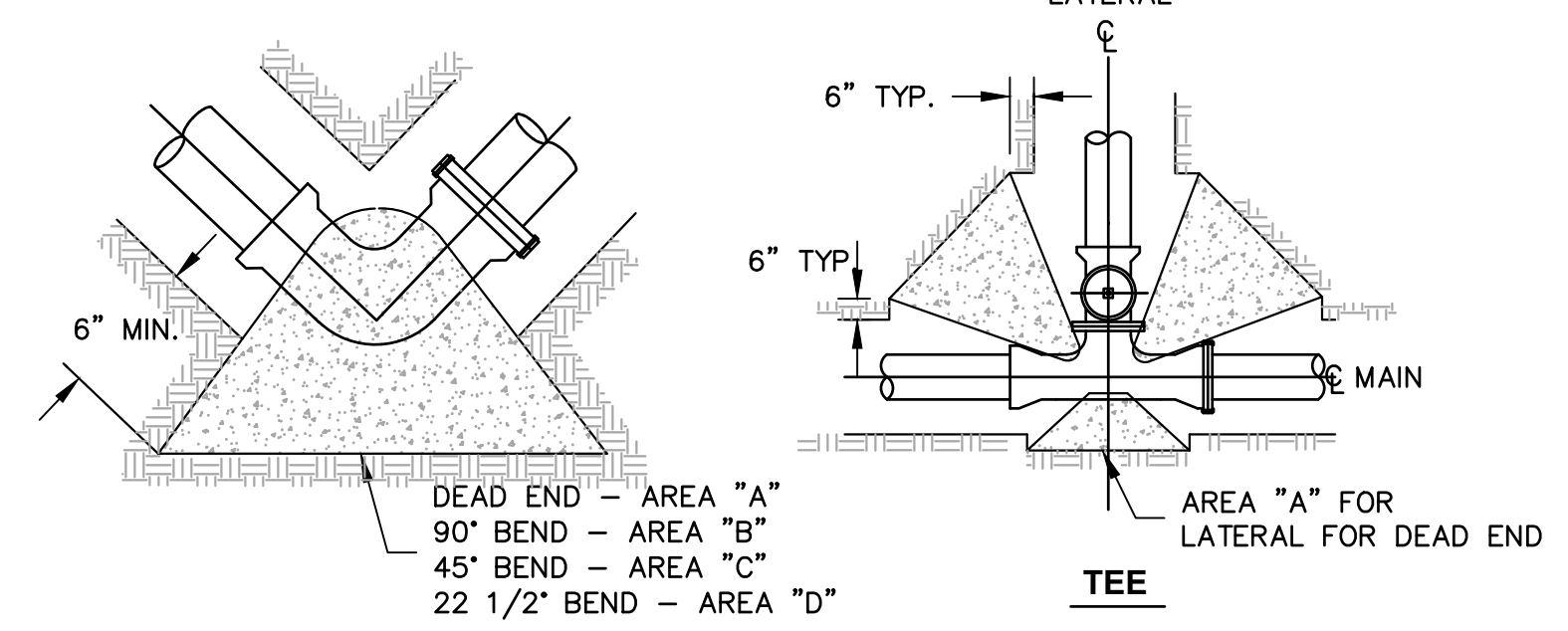
4 IN GROUND FLOW THROUGH PLANTER W/ BRACING
NTS



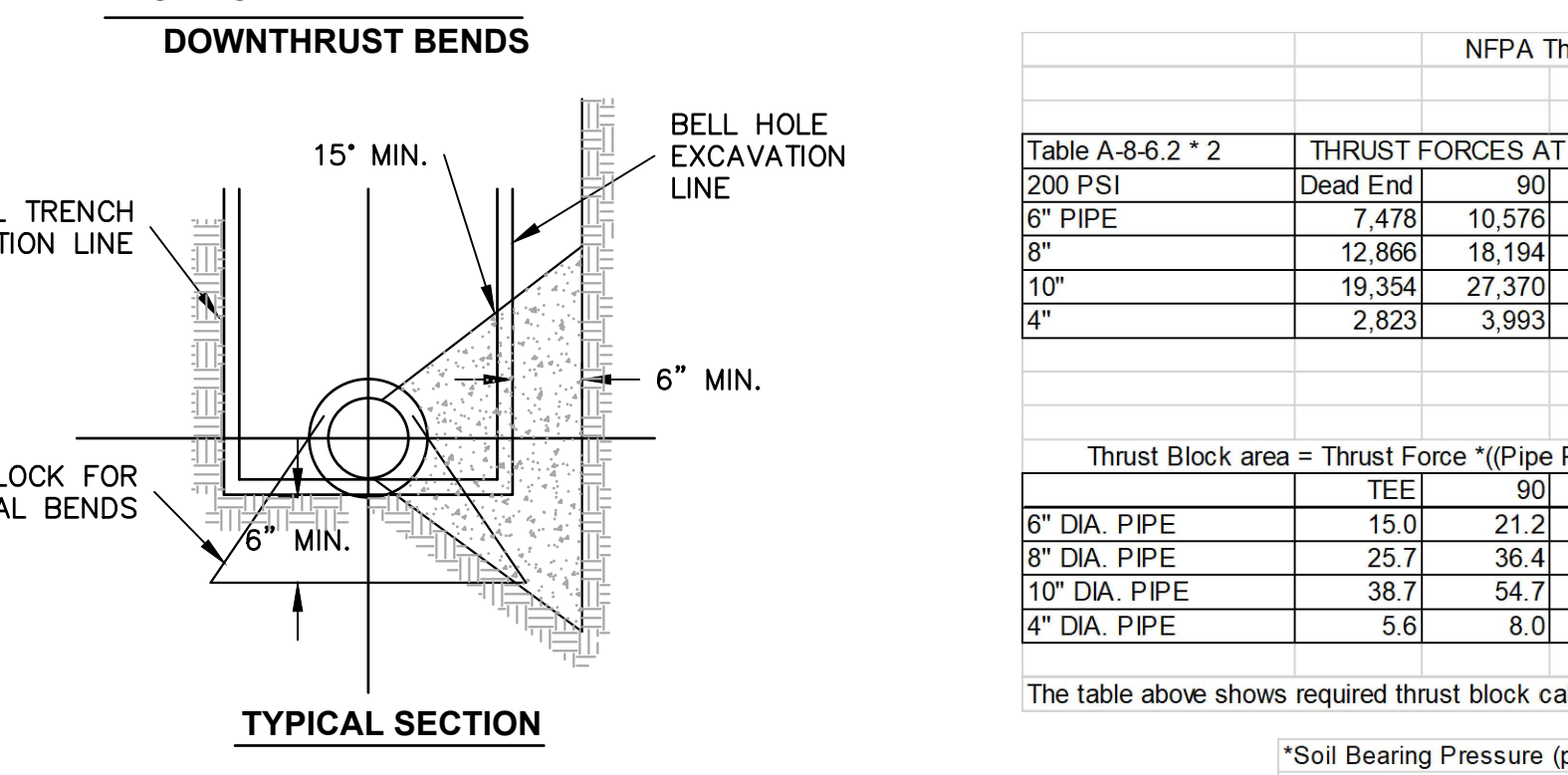
7 12" CURB CUT
NTS



5 DOWNSPOUT CONNECTION TO STORM DRAIN
NTS



6 FLOW-THROUGH PLANTER CLEANOUT
NTS



8 THRUST BLOCK DETAIL & CALCULATIONS
NTS

| PIPE SIZE | AREA | | | |
|-----------|------|------|------|-----|
| | A | B | C | D |
| 4" | 6 | 8 | 4.5 | 2.5 |
| 6" | 15 | 21.5 | 11.5 | 6 |
| 8" | 26 | 36.5 | 20 | 10 |

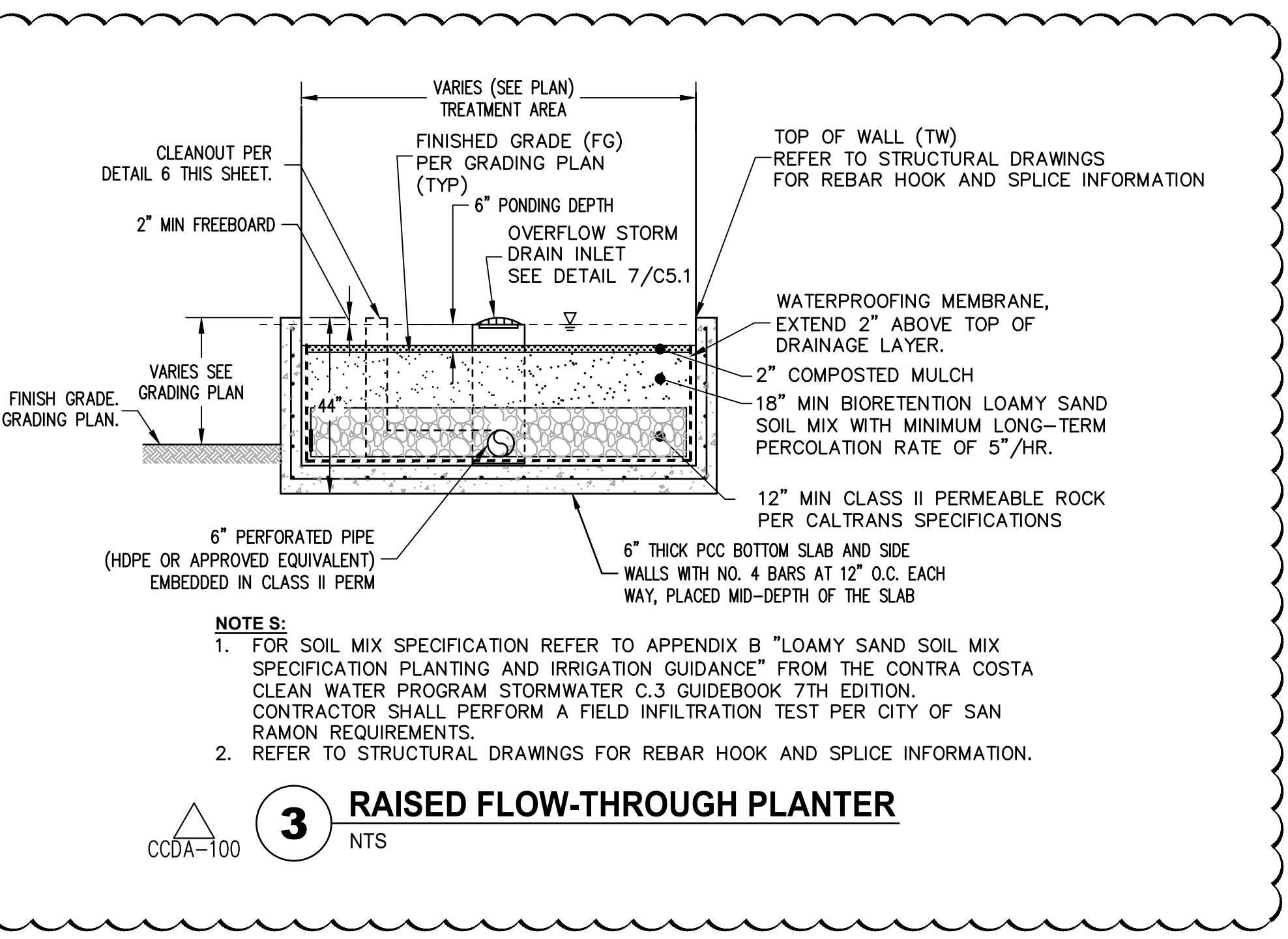
NOTE: VALUES SHOWN ARE BASED ON ASSUMED 1000 PSF SOIL BEARING PRESSURE AND 200 PSI TEST PRESSURE.
NOTE: THRUST BLOCK HEIGHT AND WIDTH SHALL BE EQUAL. THRUST BLOCK BEARING AREA SHALL BE SQUARE.

| Table A-8.6.2 * 2 | THRUST FORCES AT BENDS | | | |
|-------------------|------------------------|--------|--------|---------|
| 200 PSI | Dead End | 90° | 45° | 22 1/2° |
| 6" PIPE | 7,478 | 10,576 | 5,724 | 2,918 |
| 8" | 12,866 | 18,194 | 9,846 | 5,020 |
| 10" | 19,354 | 27,370 | 14,812 | 3,776 |
| 4" | 2,623 | 3,993 | 2,161 | 1,077 |

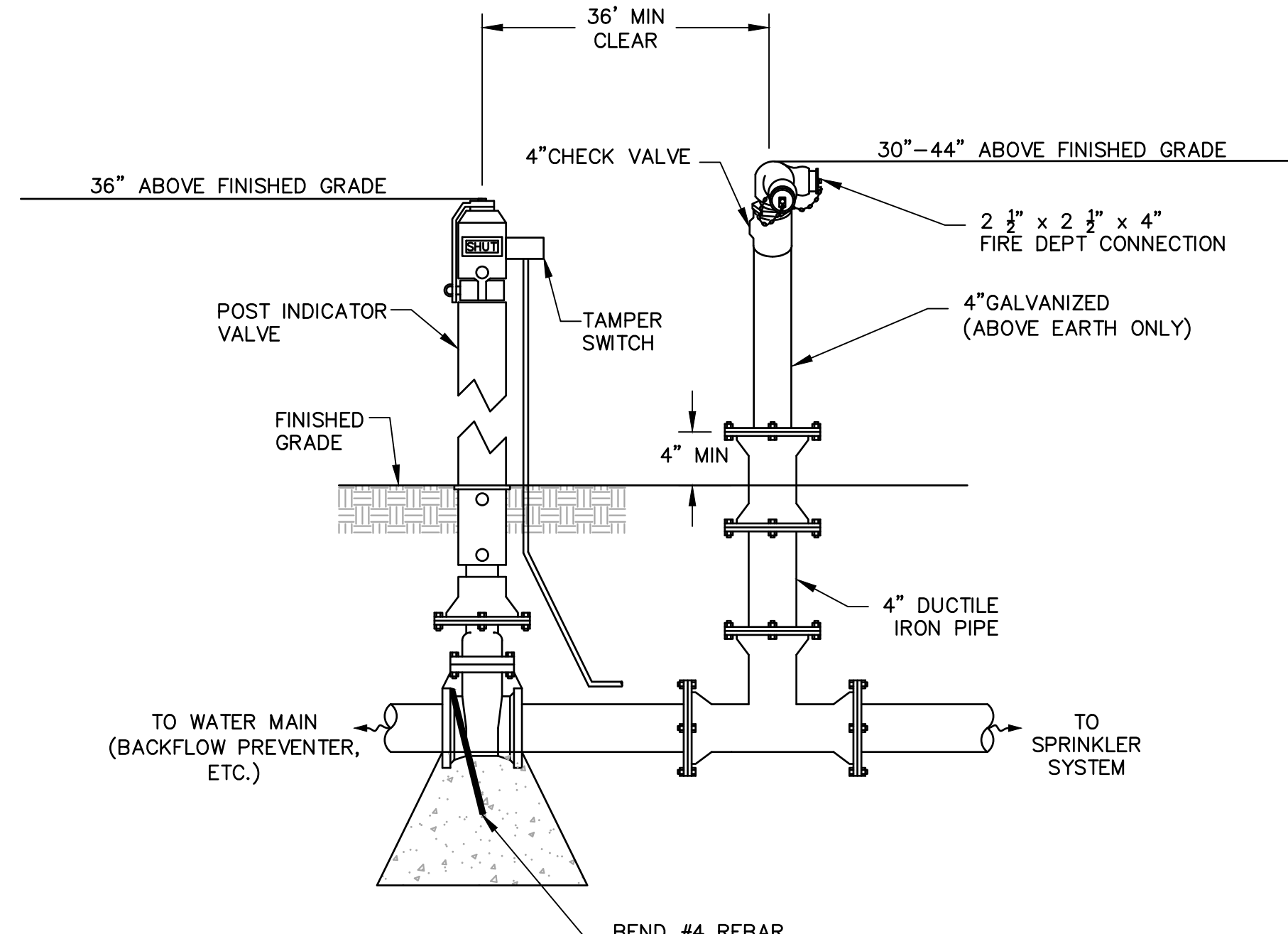
The table above shows required thrust block calc's per NFPA 24.

| Thrust Block area = Thrust Force * (Pipe Pressure / 100) / Soil Bearing Pressure | TEE | 90° | 45° | 22° | 11° |
|--|------|------|------|------|-----|
| 6" DIA. PIPE | 15.0 | 21.2 | 11.4 | 5.8 | 2.9 |
| 8" DIA. PIPE | 25.7 | 36.4 | 19.7 | 10.0 | 5.0 |
| 10" DIA. PIPE | 38.7 | 54.7 | 29.6 | 15.6 | 7.6 |
| 4" DIA. PIPE | 5.6 | 8.0 | 4.3 | 2.2 | 1.1 |

- NOTES:
- THRUST BLOCKS SHALL BE CLASS A CONCRETE (3000 PSI).
 - CONCRETE SHALL NOT EXTEND BEYOND FACE OF BELL FOR SLIP-ON JOINTS NOR INTERFERE WITH FLANGES, NUTS OR BOLTS ON FLANGED JOINTS.
 - UNSUPPORTED SURFACES SHALL BE FORMED.
 - A MINIMUM OF 7 DAYS CURING TIME REQUIRED BEFORE WATER INTRODUCED INTO LINE OR PRESSURE TEST.
 - BACK AND BOTTOM OF THRUST BLOCKS TO BE POURED AGAINST UNDISTURBED EARTH.
 - CONTRACTOR IS RESPONSIBLE FOR ALL THRUST BLOCK LOCATIONS.

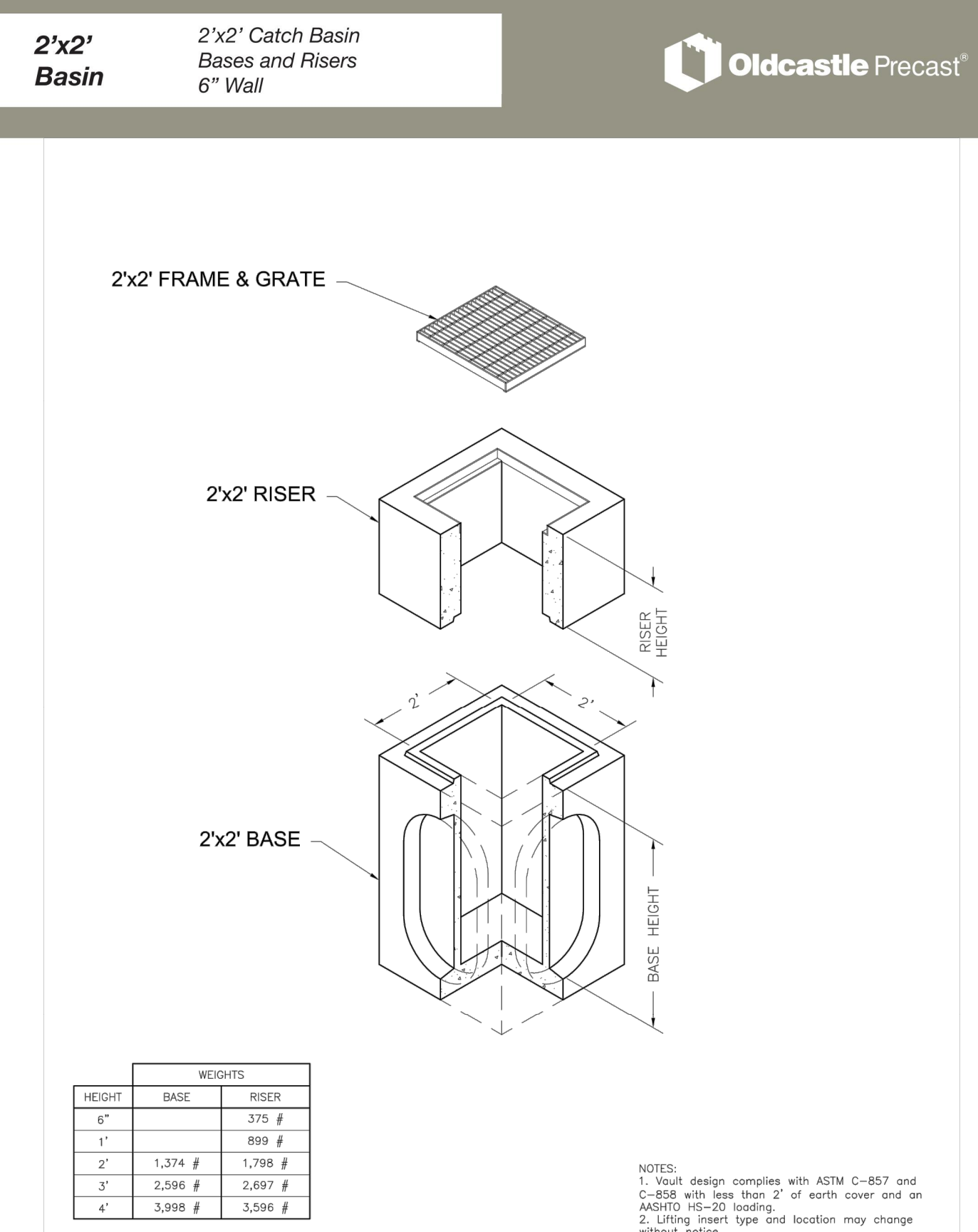


3 RAISED FLOW-THROUGH PLANTER
NTS



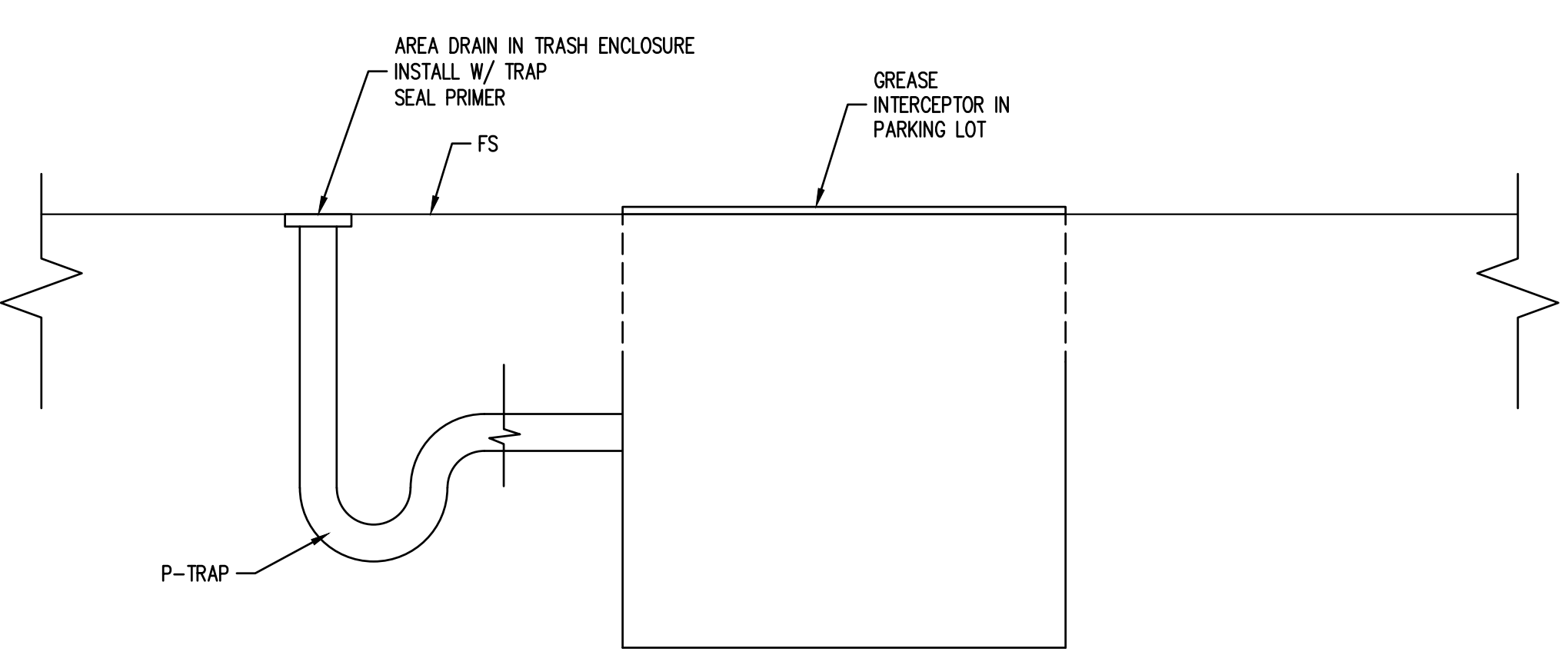
- NOTES:**
1. ALL DUCTILE IRON PIPING SHALL BE CLEANED, MASTIC COATED, AND WRAPPED IN CONFORMANCE TO APPROVED ACCEPTED STANDARDS TO PREVENT CORROSION.
 2. ALL EXPOSED UNPROTECTED METAL SHALL BE CLEANED, COATED WITH BITUMEN MASTIC COATING (COLD APPLIED LIQUID BITUMINOUS COATING) USED FOR CORROSION PROTECTION, AND WRAPPED IN 8 MIL POLYETHYLENE OR ANOTHER APPROVED STANDARD.

1 POST INDICATOR VALVE AND FIRE DEPARTMENT CONNECTION
NTS

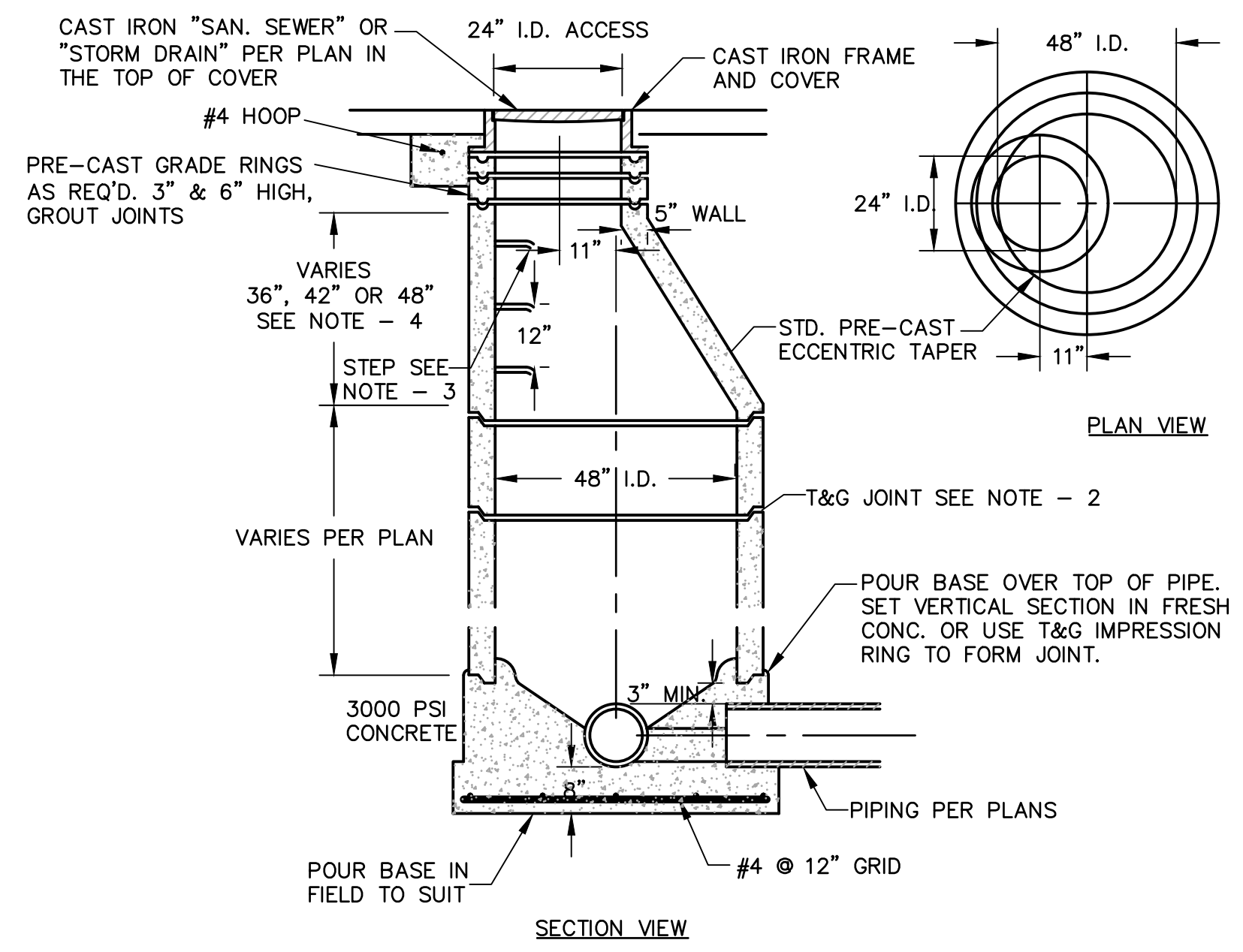


- NOTES:**
1. ALL DRAIN INLETS SHALL HAVE ADA AND HEEL PROOF GRATES.

2 24"x24" DRAIN INLET
NO SCALE

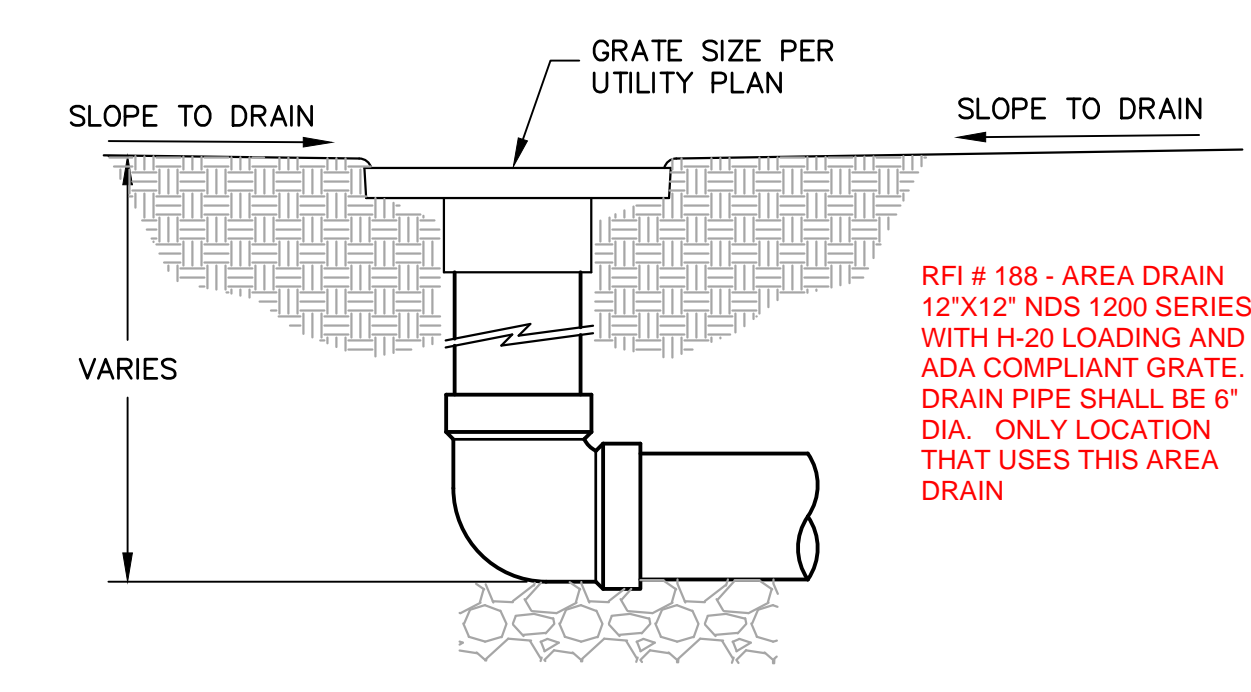


4 GREASE INTERCEPTOR VENT
NO SCALE

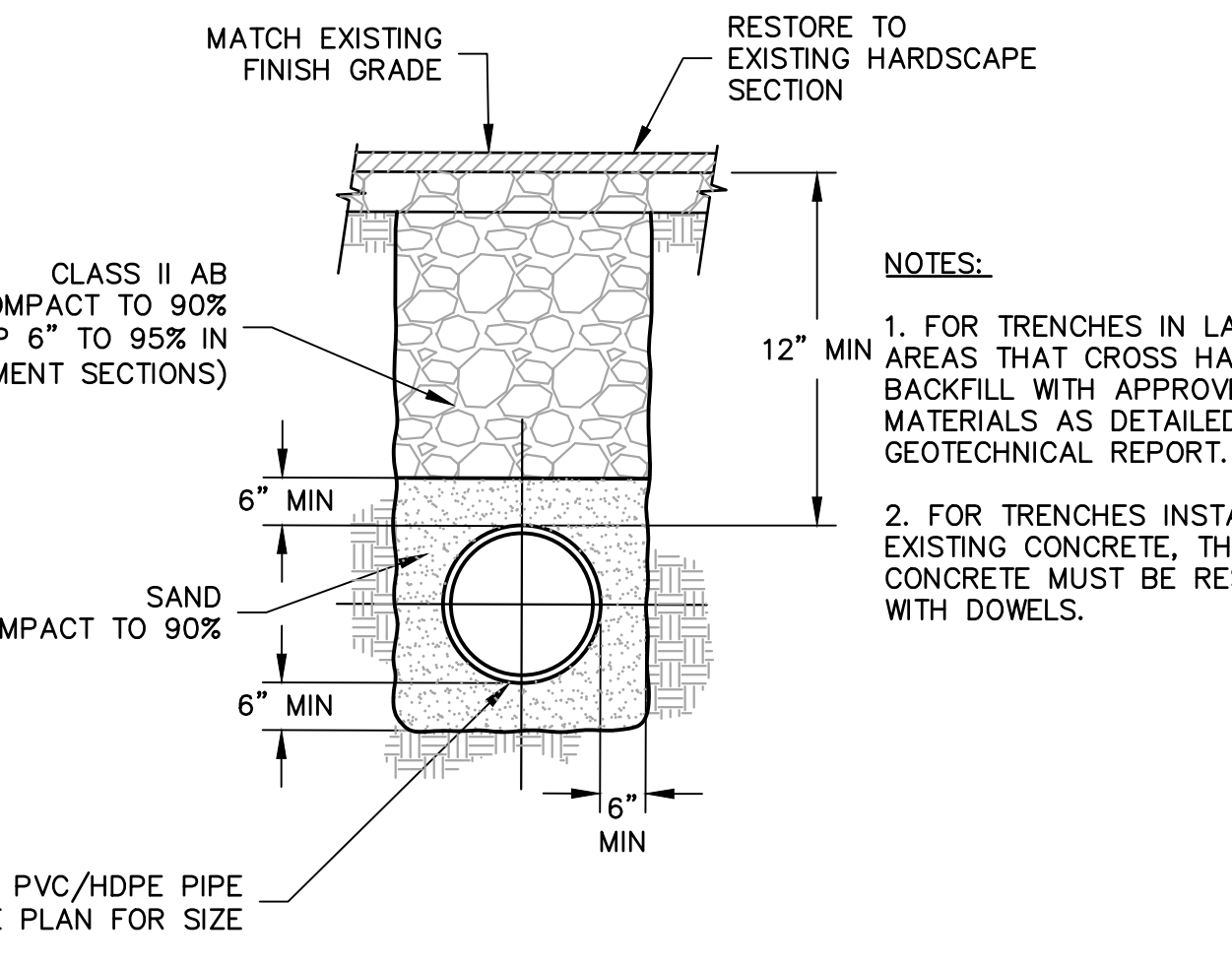


- NOTES:**
1. USE 48" MANHOLE FOR ALL PIPES LESS THAN 30" DIAMETER.
 2. PRE-CAST MANHOLE MATERIAL SHALL BE MANUFACTURED TO ASTM SPECIFICATION C478.
 3. GROUT JOINTS WITH 1:3 MORTAR MIX OR USE RAM-NEK JOINT COMPOUND.
 4. 3/4" DIA. GALV. STEEL STEPS ARE SPACED 12" O.C. VERTICALLY & 6" FROM JOINTS.
 5. A 30" TAPER MAY BE COMBINED WITH A 12" VERTICAL TO FORM A 48" TAPER SECTION.
 6. ALL CONCRETE JOINTS SHALL BE LEANED, WETTED, A MORTARED PRIOR TO SETTING THE NEXT SECTION. THE JOINTS SHALL BE PACKED, TOWELED AND BRUSHED WHILE THE MORTAR IS PLASTIC.
 7. MANHOLE SHALL BE SET TO GRADE SUBSEQUENT TO PLACING AC OR RCC.
 8. COAT ALL CONCRETE SURFACES INSIDE SANITARY SEWER MANHOLES WITH YXPEX "CHRISTALLINE" OR APPROVED EQUAL.

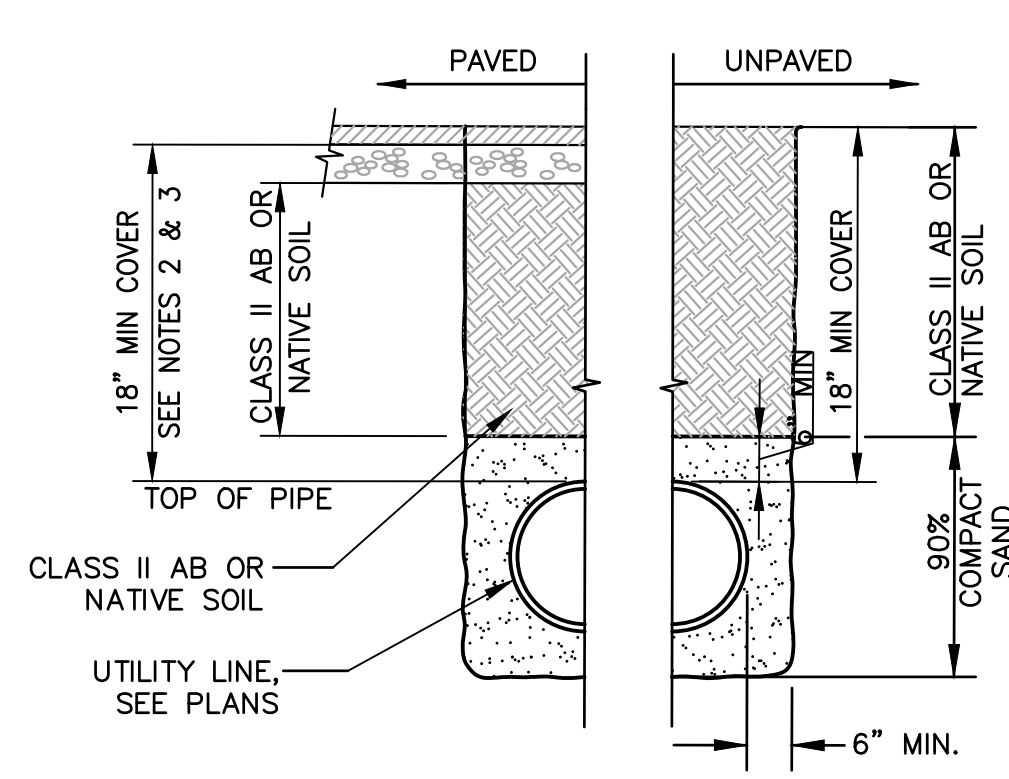
3 TYPICAL MANHOLE DETAIL
NTS



5 AREA DRAIN
NO SCALE

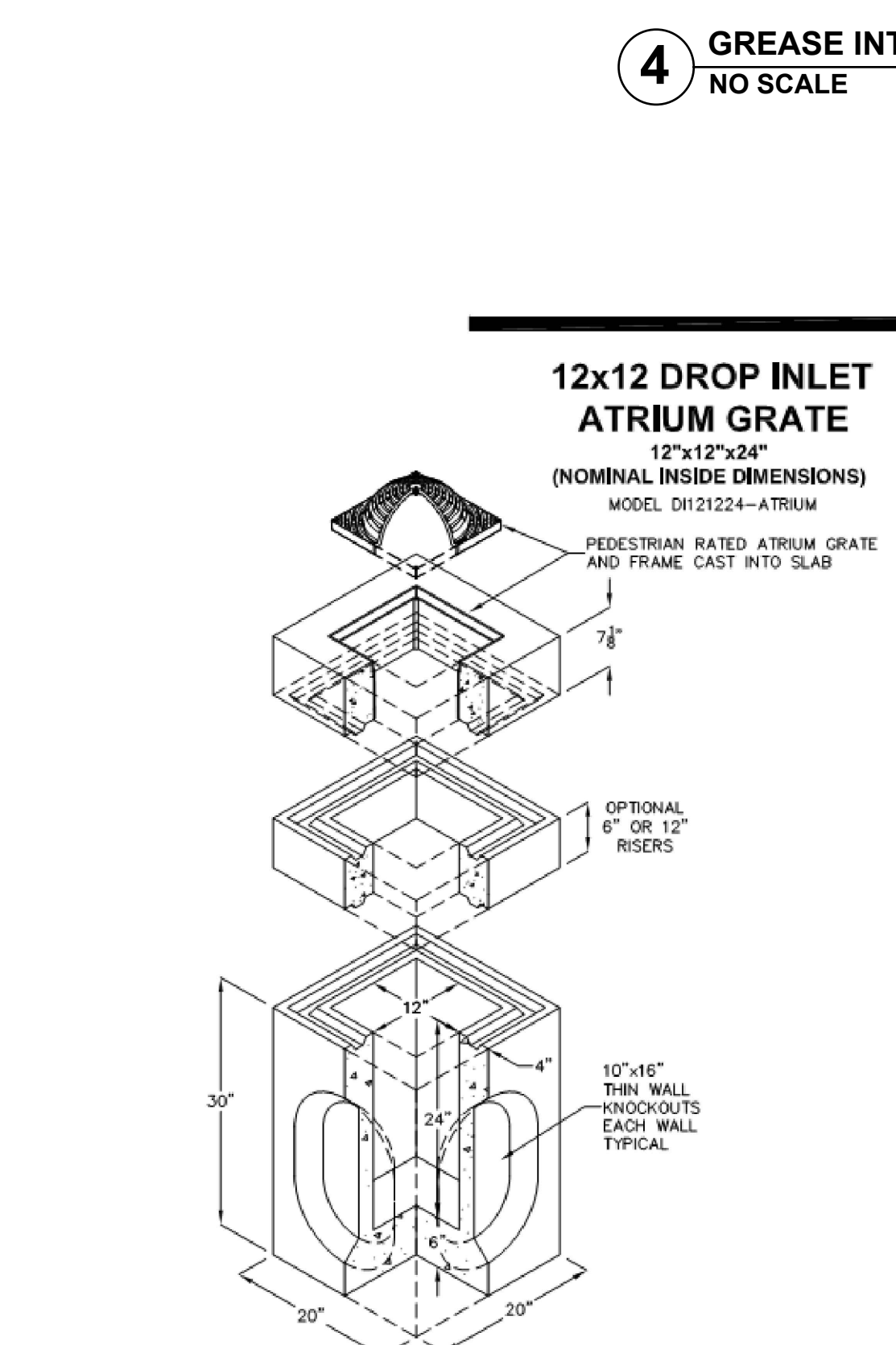


6 TRENCH RESTORATION
NO SCALE

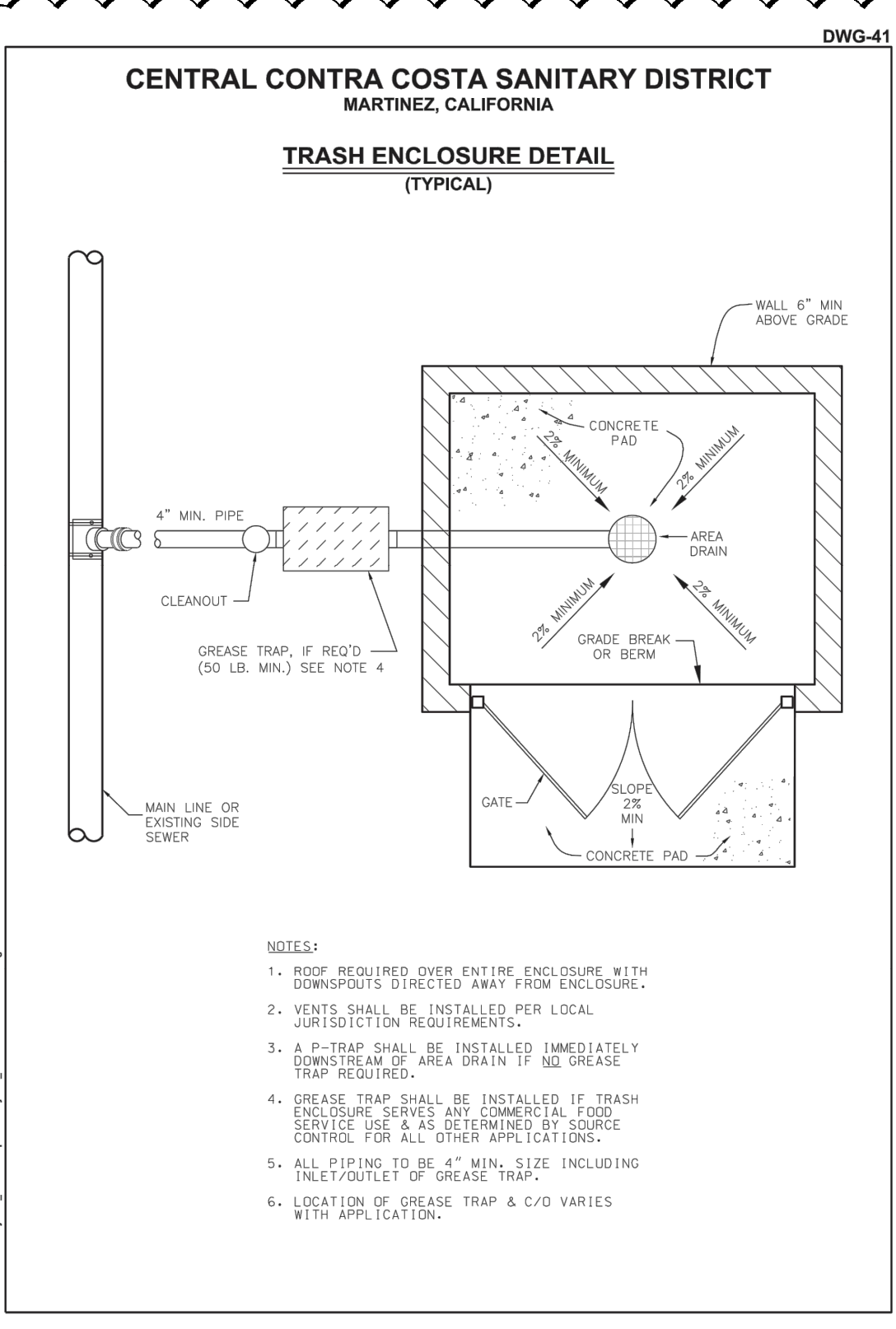


- NOTES:**
1. RESTORE EXISTING SURFACE TO EXISTING CONDITIONS AFTER TRENCH WORK AND COMPACTION IS COMPLETE.
 2. COVER FOR ASPHALT AREAS IS DEFINED FROM TOP OF PIPE TO TOP OF AGGREGATE BASE.
 3. COVER FOR CONCRETE AREAS IS DEFINED FROM TOP OF PIPE TO TOP OF FINISHED SURFACE.
 4. REFER TO GEOTECHNICAL REPORT FOR BACKFILL MATERIAL COMPACTION AND REQUIREMENTS.

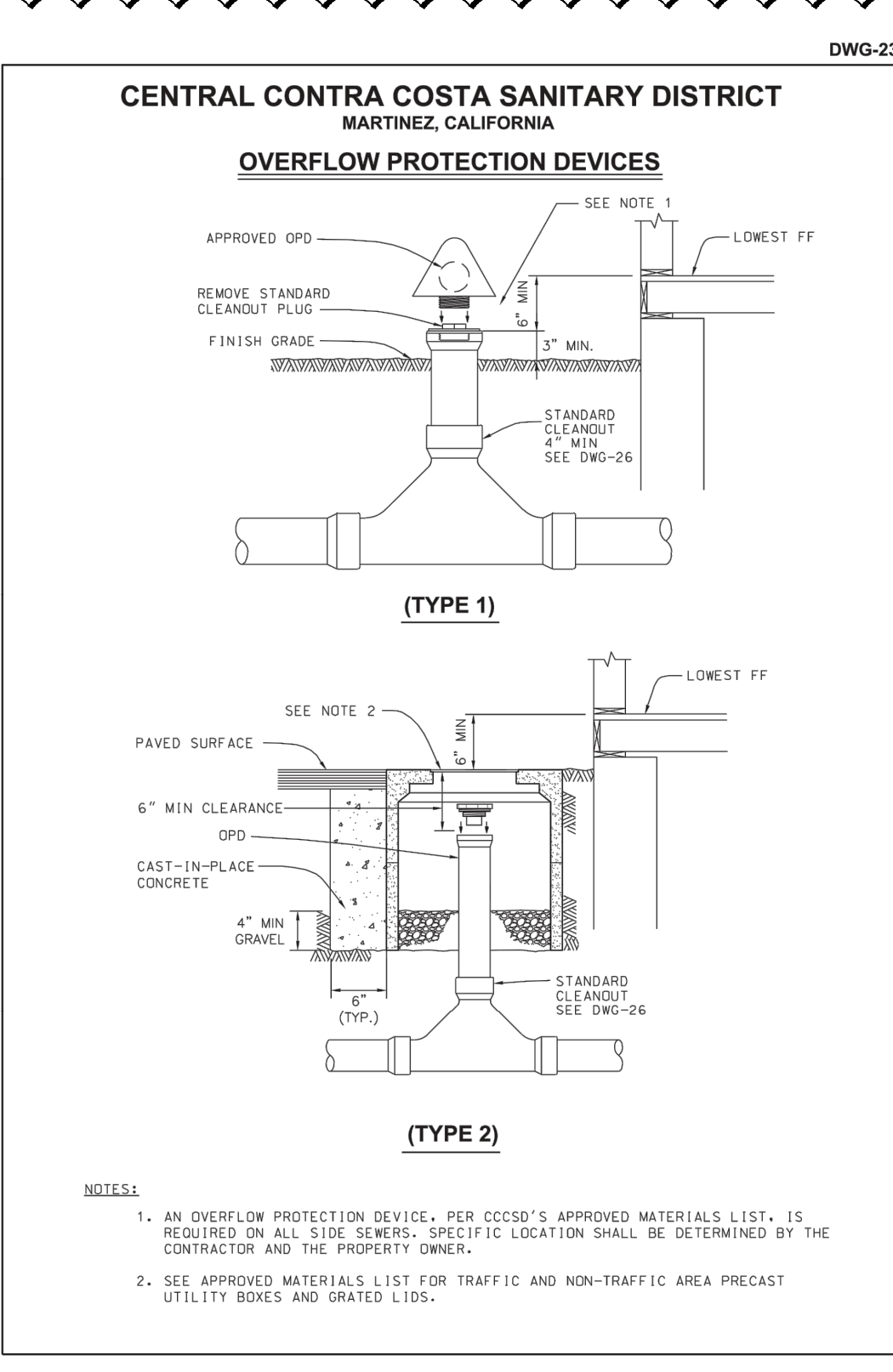
8 PRIVATE UTILITY TRENCH
NTS



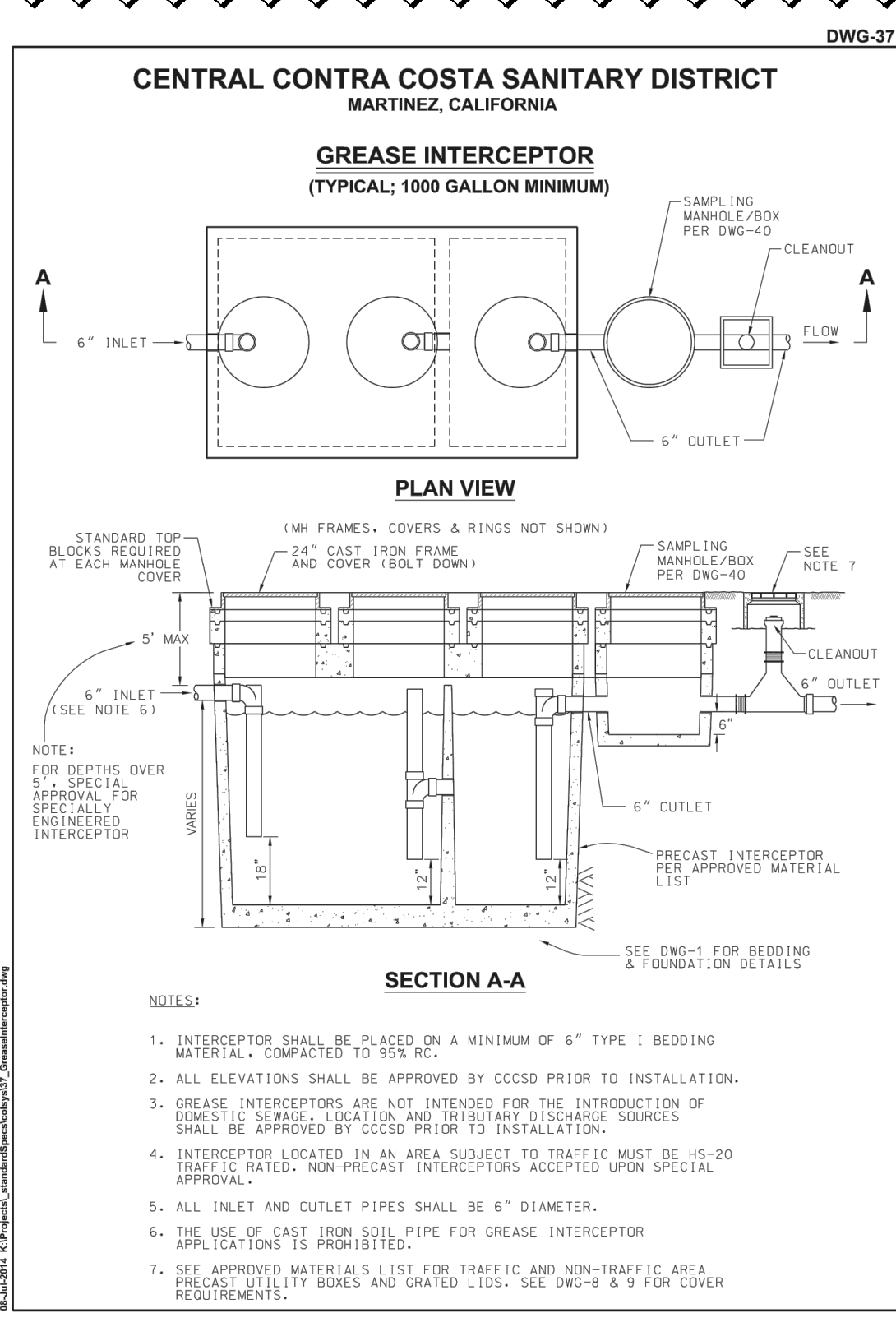
7 12" X 12" DRAIN INLET
NO SCALE



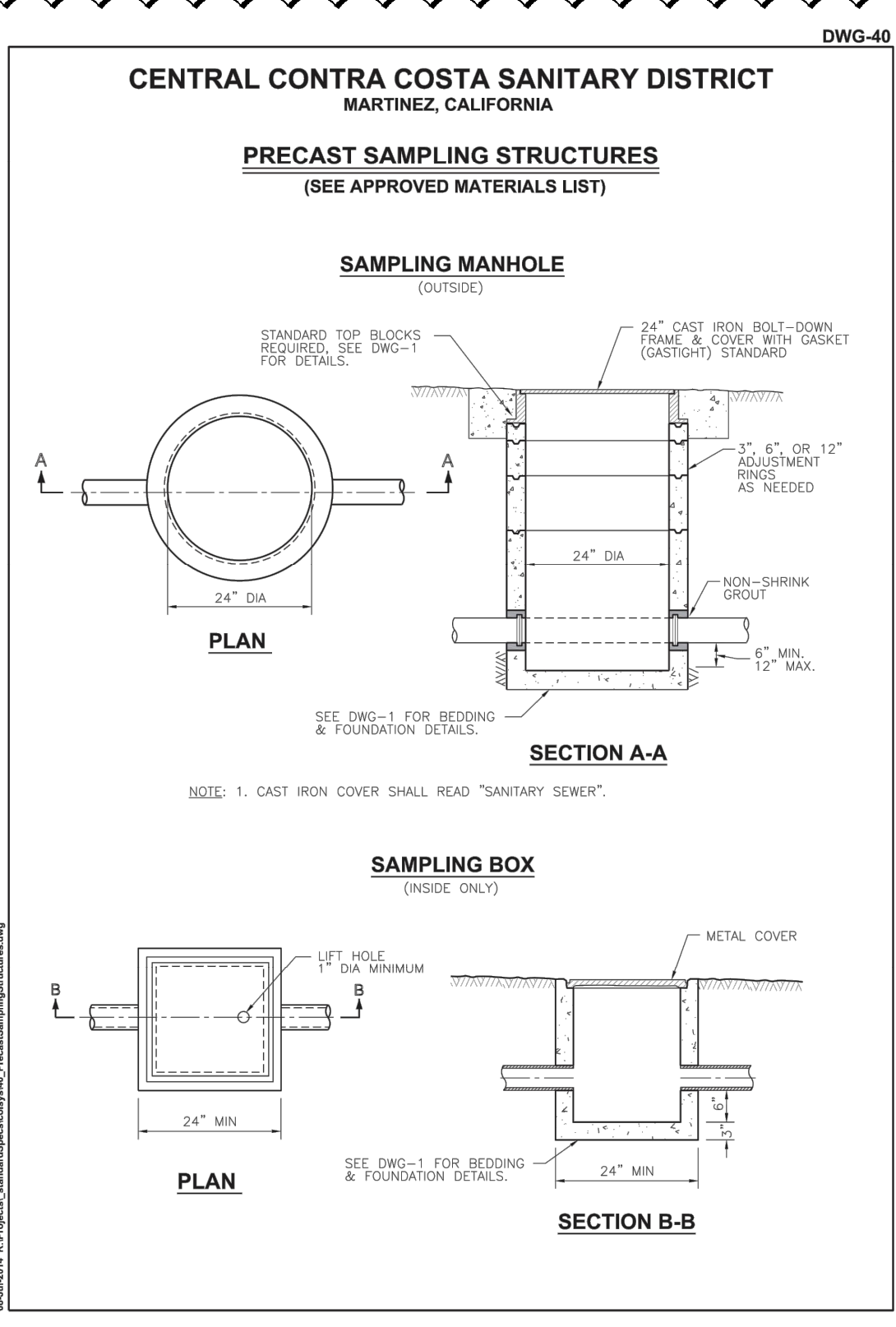
12"x12" DRAIN INLET
NO SCALE



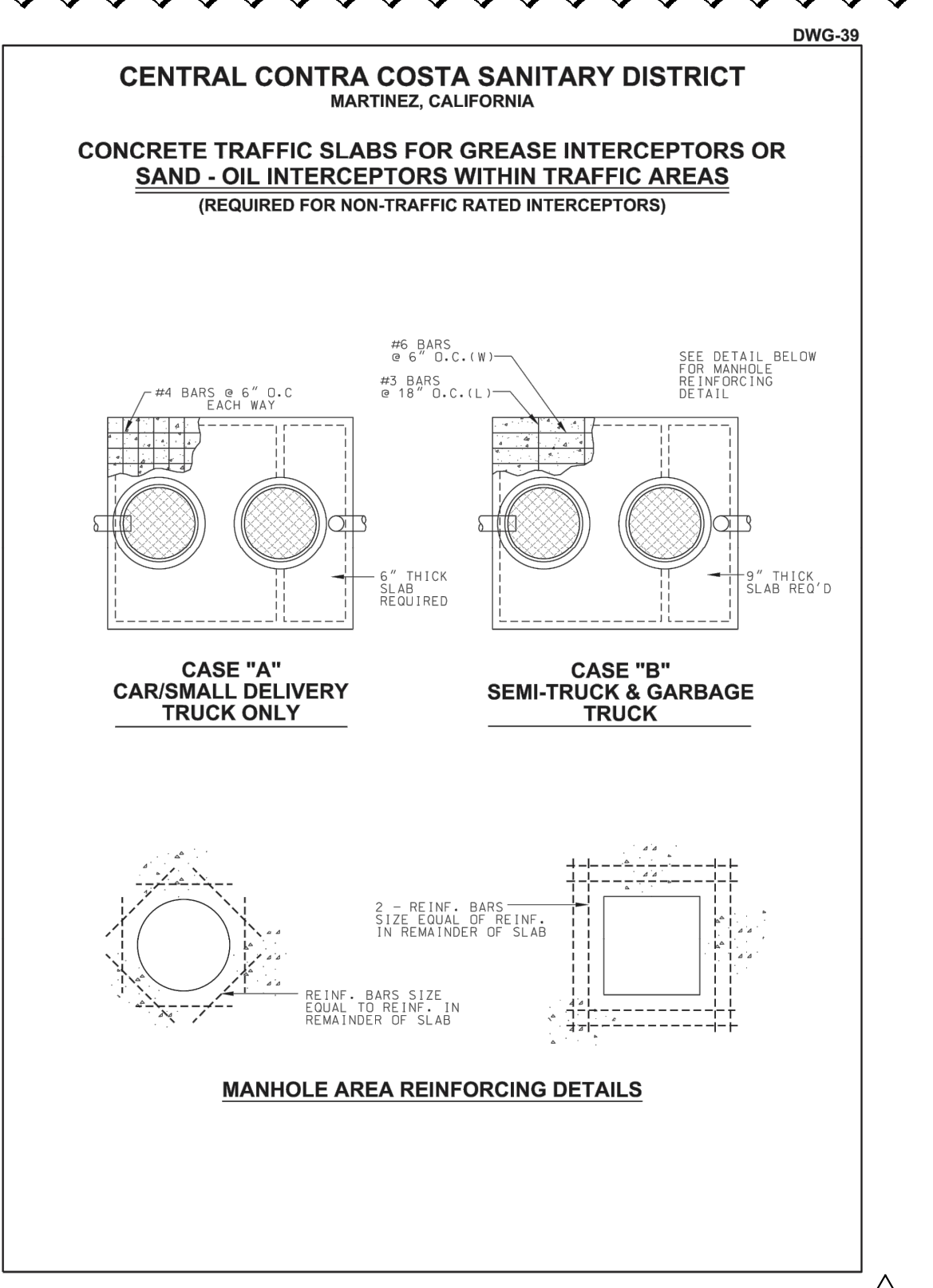
OVERFLOW PROTECTION DEVICES



GREASE INTERCEPTOR



PRECAST SAMPLING STRUCTURES



CONCRETE TRAFFIC SLABS FOR GREASE INTERCEPTORS OR SAND-OIL INTERCEPTORS WITHIN TRAFFIC AREAS

APPROVALS

NOLL & TAM ARCHITECTS
729 Heinz Avenue
Berkeley, CA 94710
tel 510.542.2200
fax 510.542.2201

BKF
ENGINEERS/SURVEYORS/PLANNERS
1646 R. California Blvd., Suite 400
Walnut Creek, CA 94596
(925) 940-2200
(925) 940-2299 (FAX)

PROJECT TITLE
CONTRA COSTA CCD D-4002
DVC SAN RAMON CAMPUS EXPANSION & RENOVATION
1690 Watermill Rd.
San Ramon, CA 94582

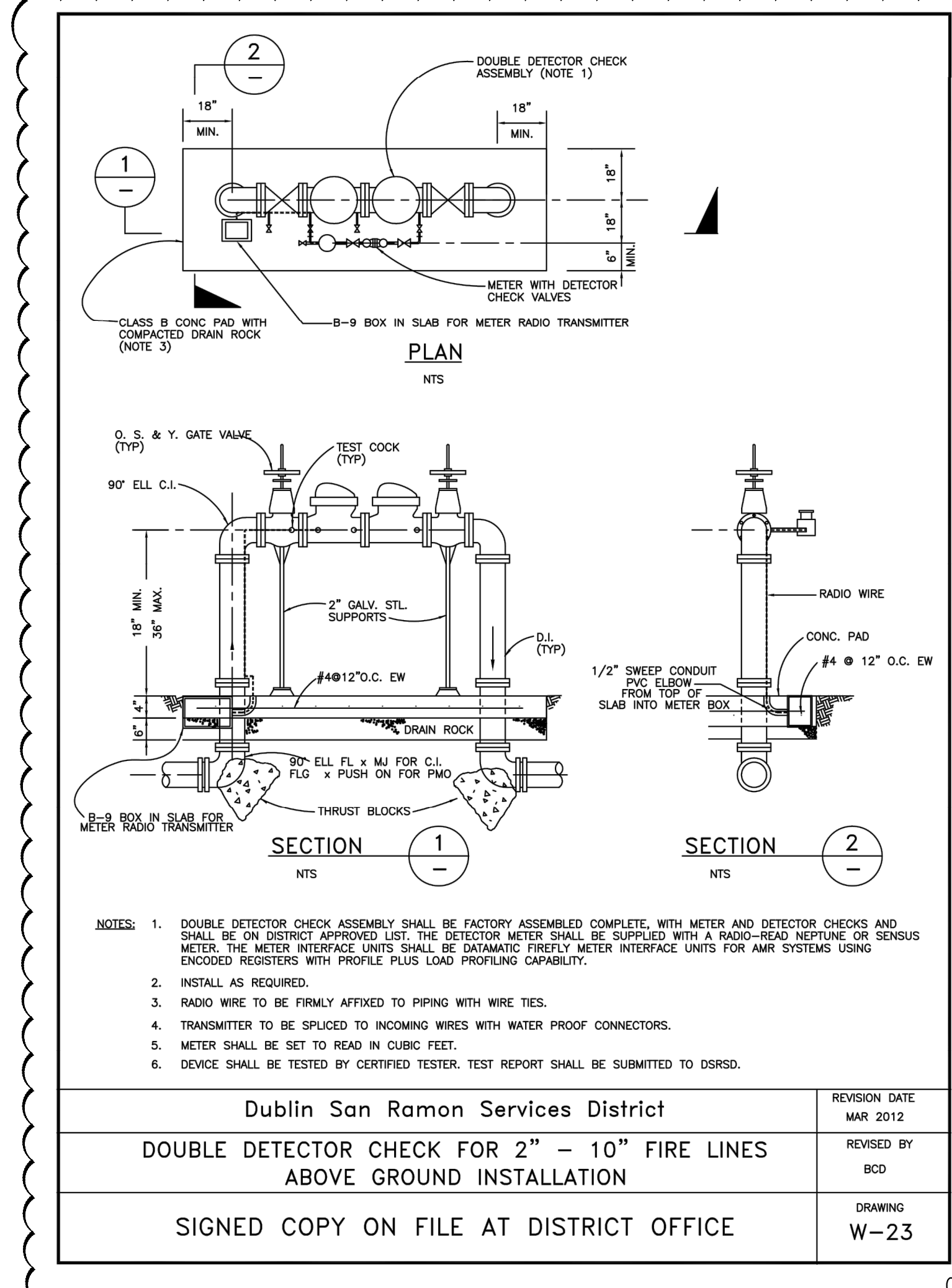
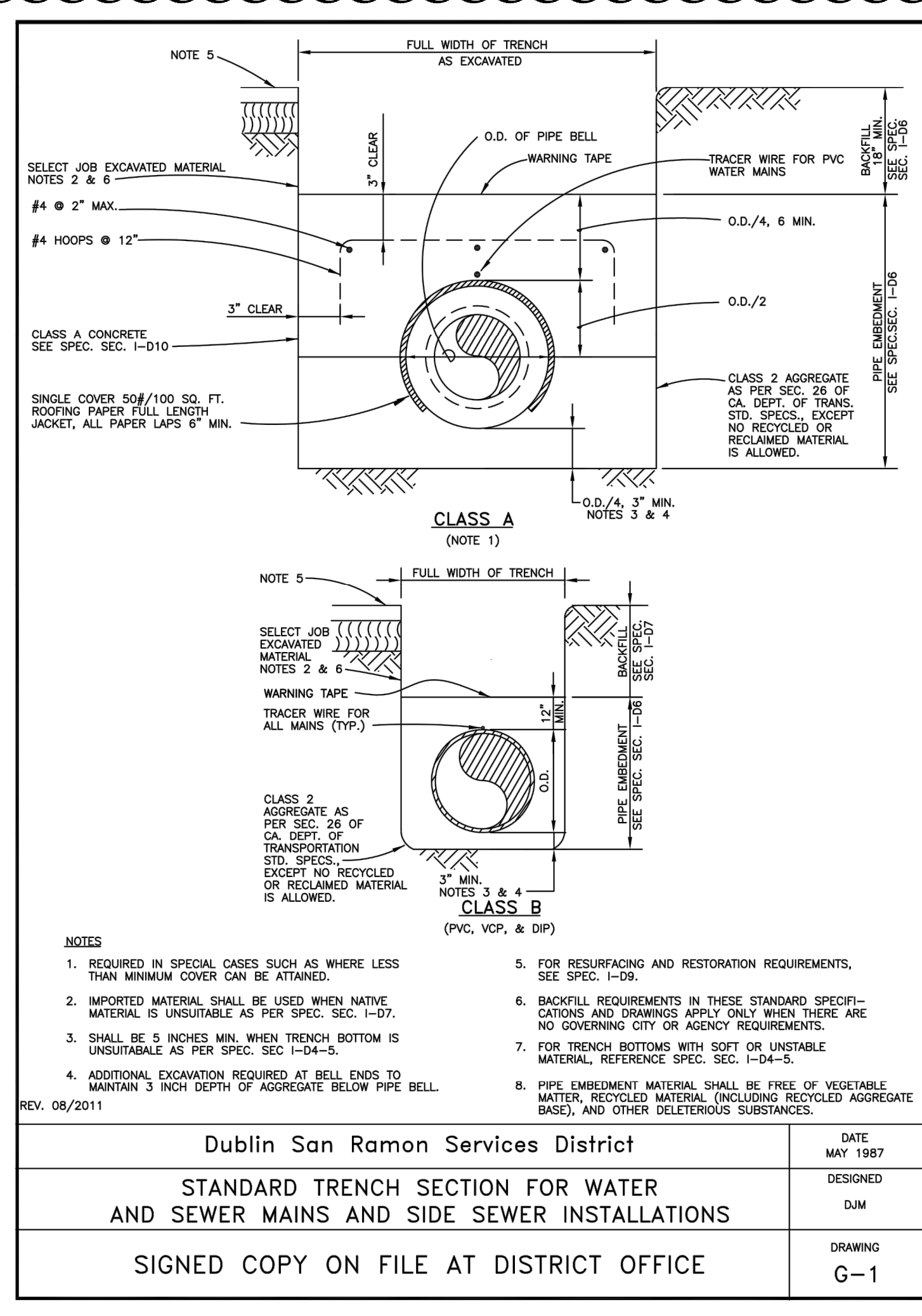
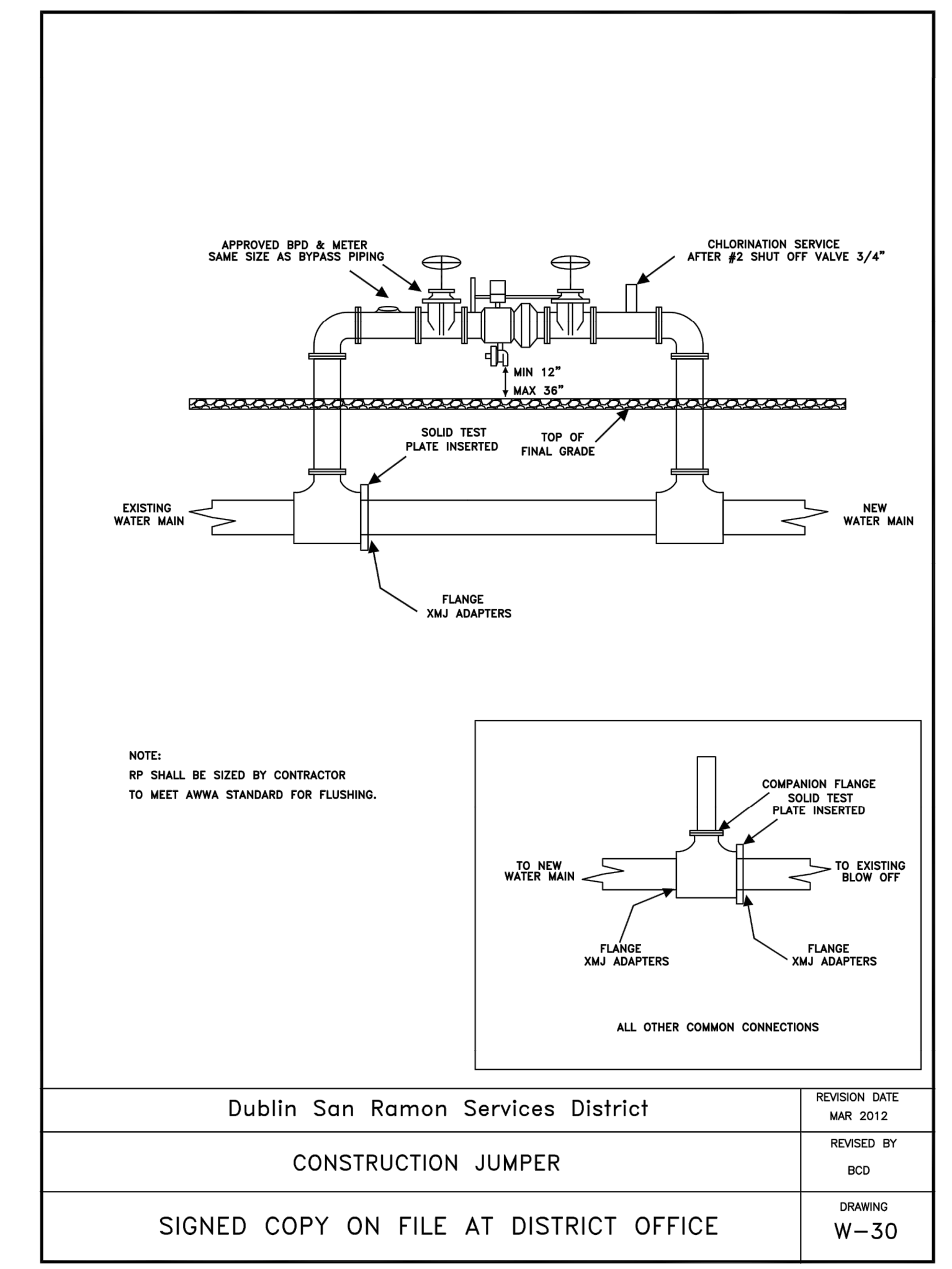
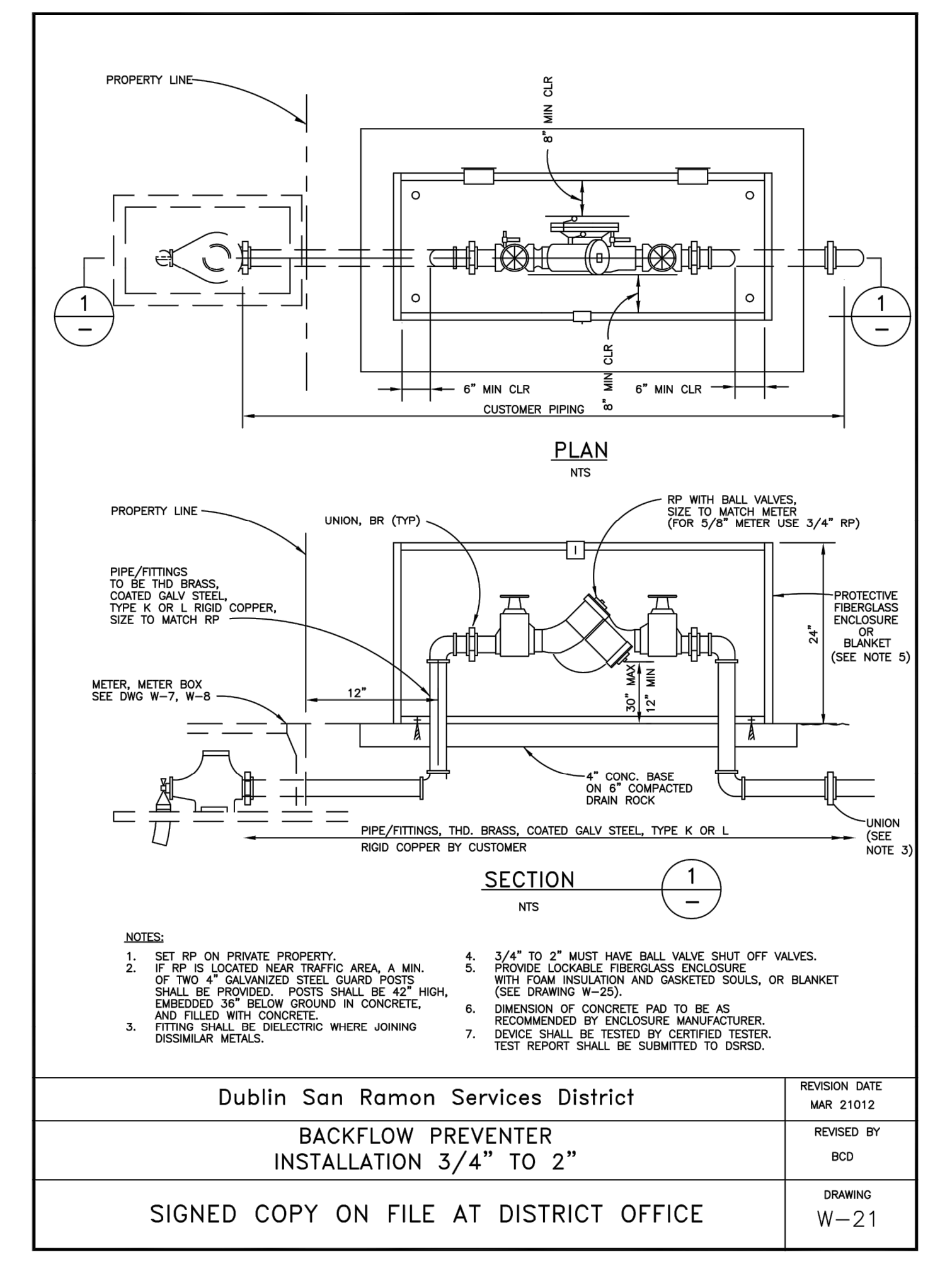
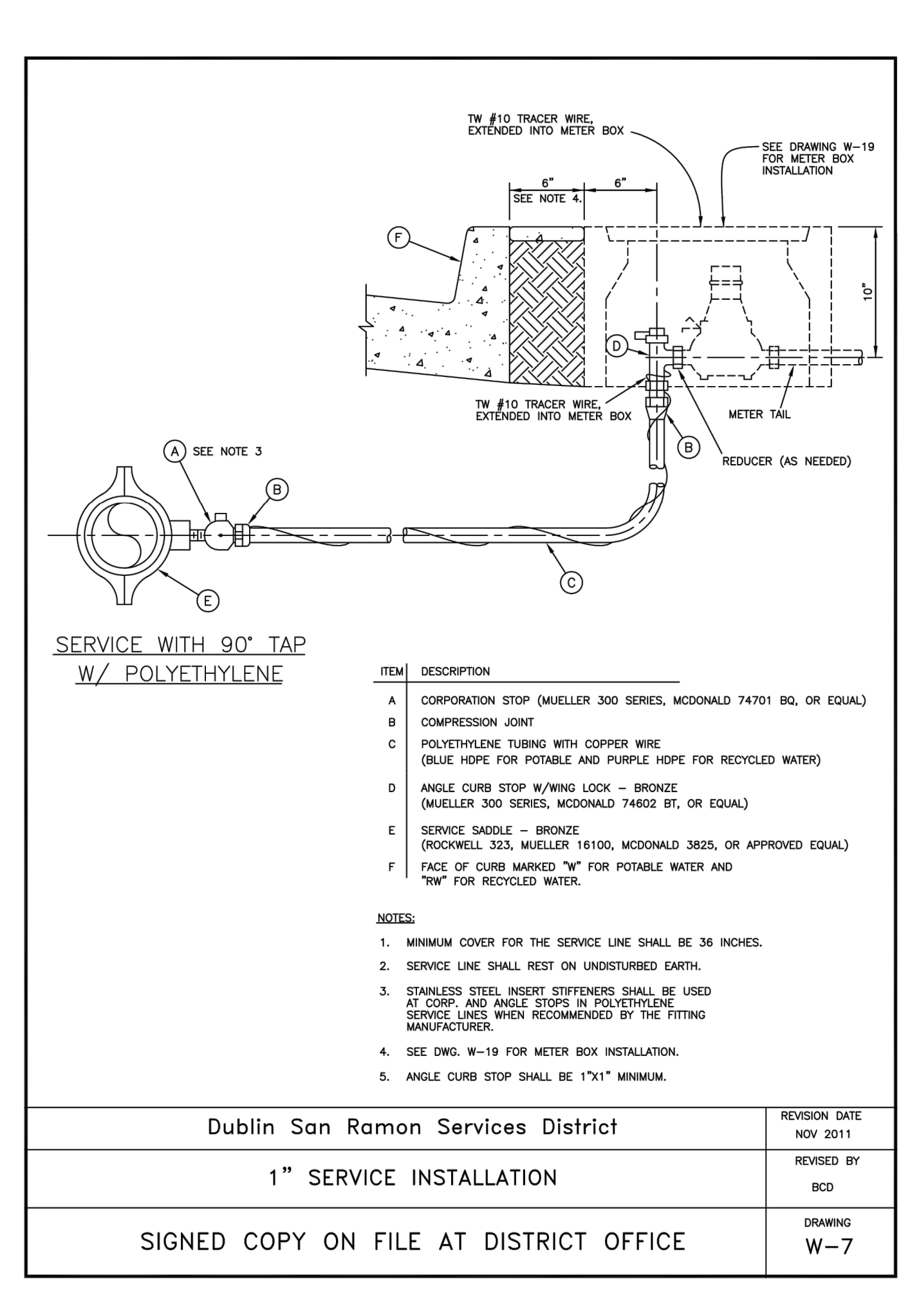
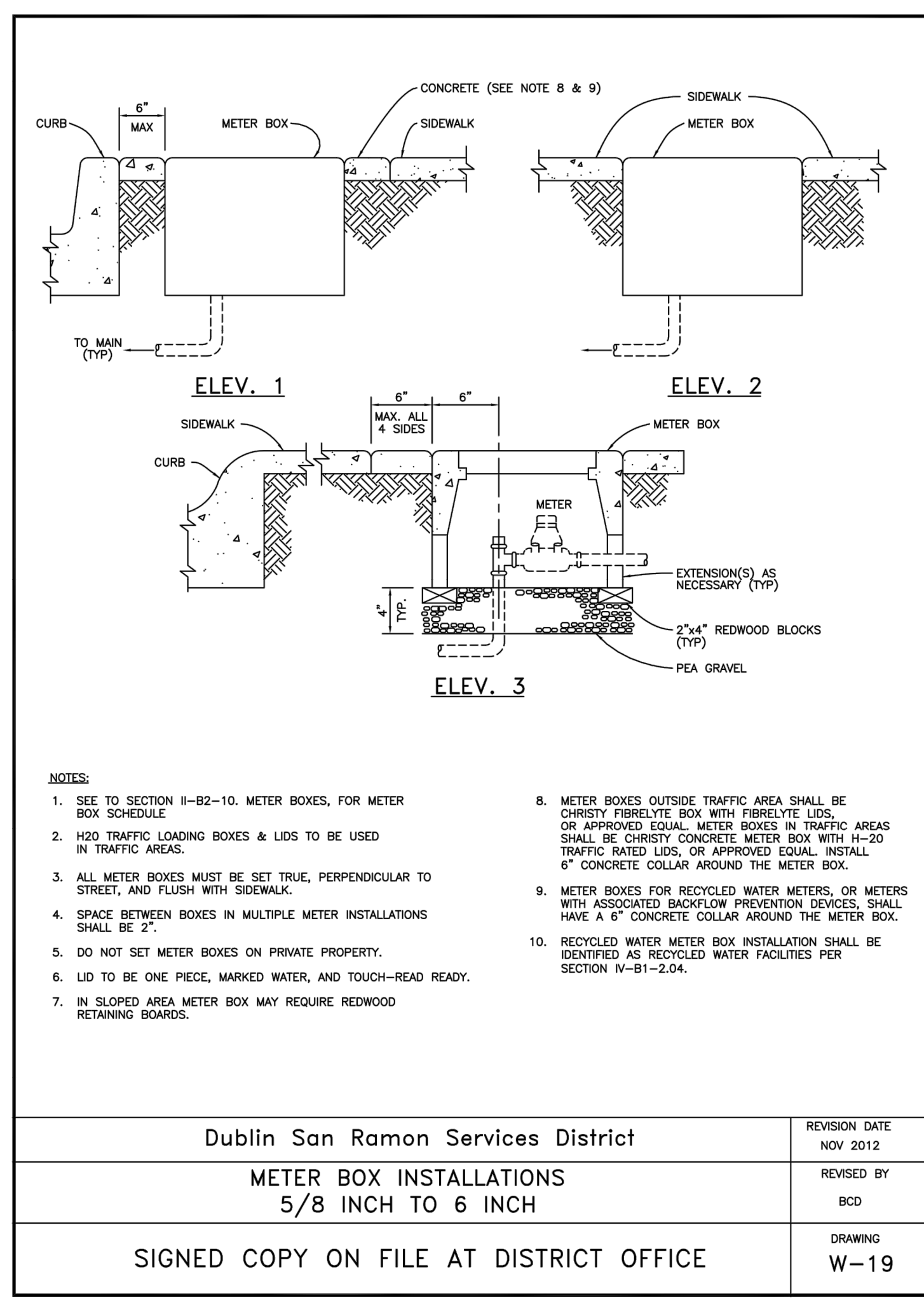
RECORD SET:
THESE DRAWINGS HAVE BEEN PREPARED FROM ADDENDUMS, CCD'S, ASIS AND SELECT RFIS OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM. ONLY A SELECT FEW AS-BUILTS WERE SUBMITTED.

ISSUE TITLE
INCREMENT 2

| ISSUE DATE | DATE | DESCRIPTION |
|------------|---------------------|-------------|
| 05/30/2019 | | |
| 8/2/19 | INC 2 - ADDENDUM 02 | |
| 8/27/19 | INC 2 - ADDENDUM 03 | |
| 11/12/19 | ASIS #3 CCD-A-1 | |
| 02/07/20 | ASIS #3 CCD-A-100 | |
| 04/07/20 | CCDA-102 | |
| 08/11/20 | ASIS 20 | |

SHEET TITLE
CONSTRUCTION DETAILS

SHEET NUMBER
C5.1



APPROVALS

NOLL & TAM ARCHITECTS

729 Heinz Avenue
Berkeley, CA 94710
tel 510.542.2200
fax 510.542.2201

Dublin San Ramon Services District

REVISION DATE
MAR 2012

CONSTRUCTION JUMPER

REVISED BY
BCD

SIGNED COPY ON FILE AT DISTRICT OFFICE

DRAWING
W-30

BKF
ENGINEERS, SURVEYORS, PLANNERS
1648 N. California Blvd., Suite 400
Walnut Creek, CA 94596
(925) 940-2200
(925) 940-2298 (FAX)

REGISTERED PROFESSIONAL ENGINEER
No. 64607
STATE OF CALIFORNIA
08/21/2023

PROJECT TITLE

**CONTRA COSTA
CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION &
RENOVATION**

1690 Watermill Rd.
San Ramon, CA 94582

RECORD SET:

THESE DRAWINGS HAVE BEEN PREPARED FROM ADDENDUMS, CCD'S, ASIS AND SELECT RFI'S OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM. ONLY A SELECT FEW AS-BUILTS WERE SUBMITTED.

ISSUE TITLE

INCREMENT 2

ISSUE DATE 05/30/2019

NOLL & TAM JOB NUMBER 21630

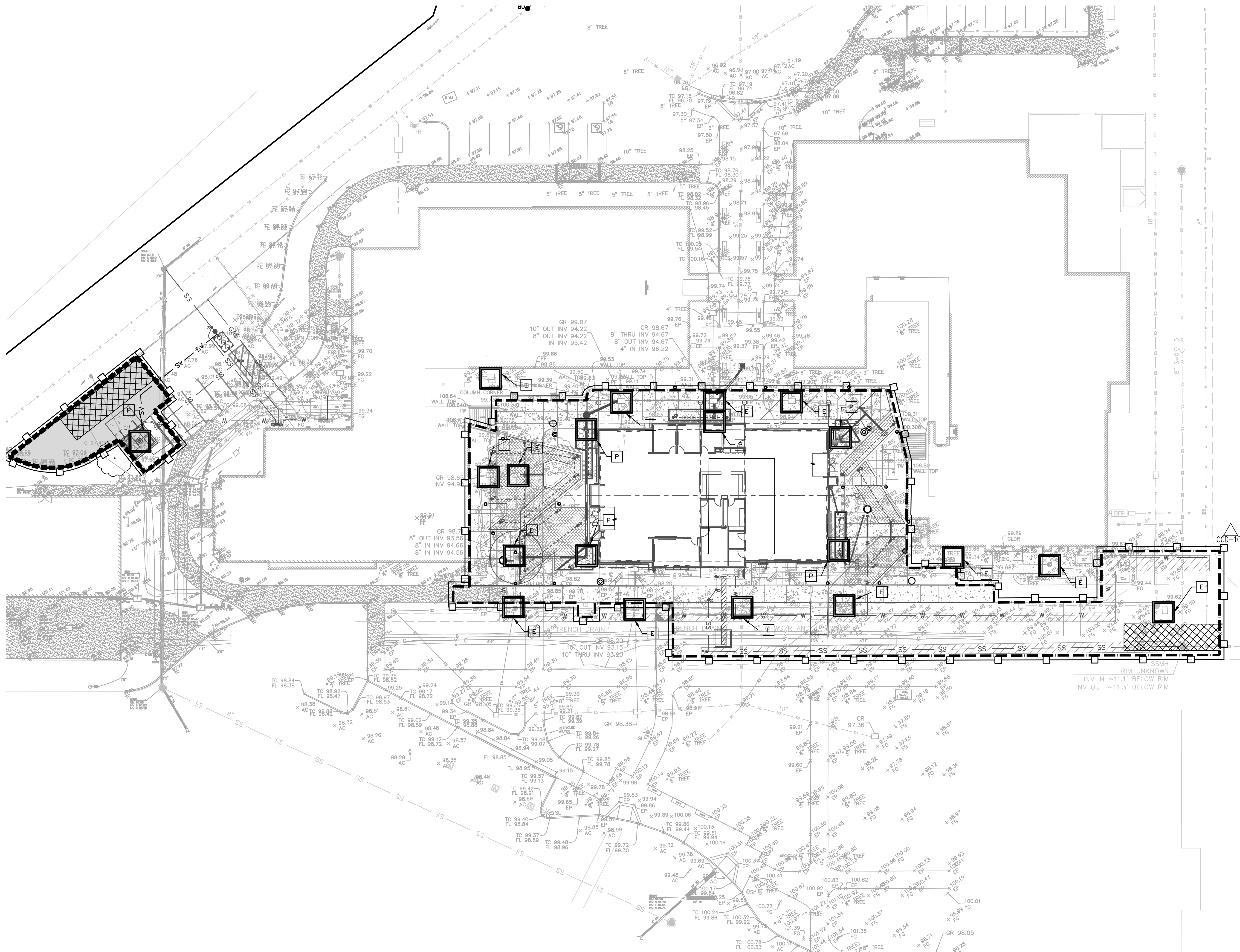
| REVISIONS | DATE | DESCRIPTION |
|-----------|---------------------|-------------|
| 8/2/19 | INC 2 - ADDENDUM 02 | |
| 8/27/19 | INC 2 - ADDENDUM 03 | |
| 11/12/19 | ASI #3 CCD-A-1 | |
| 02/07/20 | ASI #3 CCD-A-100 | |
| 04/07/20 | CCDA-102 | |
| 08/11/20 | ASI 20 | |

SHEET TITLE

**CONSTRUCTION
DETAILS**

SHEET NUMBER




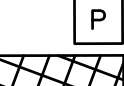

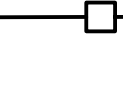
C5.2



EROSION CONTROL NOTES:

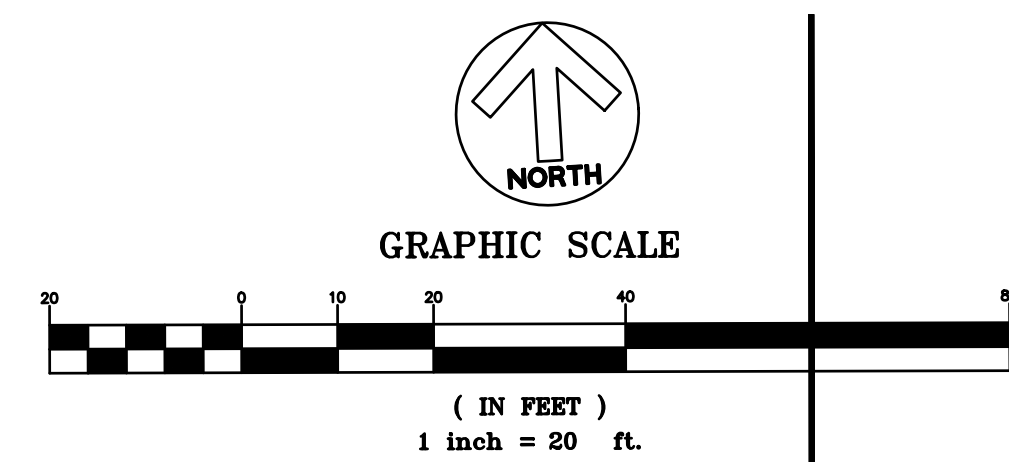
- CONTRACTOR SHALL PROVIDE THE CITY INSPECTOR AND ENGINEER UPDATED EROSION CONTROL PLANS TO REFLECT SITE AND CONSTRUCTION PHASING CHANGES.
- SEE SHEET C6.1 FOR ADDITIONAL NOTES AND DETAILS

DEMOLITION LEGEND:

-  STORM DRAIN INLET PROTECTION, SHEET C6.1 DETAIL 1
-  FIBER ROLLS, SHEET C6.1 DETAIL 2
-  EXISTING CATCH BASIN LOCATION
-  PROPOSED CATCH BASIN LOCATION
-  CONSTRUCTION SITE ENTRANCE, SHEET C6.1 DETAIL 3
-  CONSTRUCTION FENCE LINE

ABBREVIATIONS:

- E EXISTING
- P PROPOSED



APPROVALS

NOLL & TAM ARCHITECTS

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PROJECT TITLE

**CONTRA COSTA
CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION &
RENOVATION**

1690 Watermill Rd.
San Ramon, CA 94582

RECORD SET:







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ISSUE TITLE

INCREMENT 2

ISSUE DATE 05/30/2019

NOLL & TAM JOB NUMBER 21630

| REVISIONS | DATE | DESCRIPTION |
|---|----------|---------------------|
|  | 8/2/19 | INC 2 - ADDENDUM 02 |
|  | 8/27/19 | INC 2 - ADDENDUM 03 |
|  | 11/12/19 | ASI #3 CCDA-1 |
|  | 03/07/20 | ASI #4 CCDA-100 |
|  | 04/07/20 | CCDA-102 |
|  | 08/11/20 | ASI 20 |

SHEET TITLE
EROSION CONTROL

SHEET NUMBER

C6.0

| REVISIONS | DATE | DESCRIPTION |
|-----------|---------------------|-------------|
| 8/2/19 | INC 2 - ADDENDUM 02 | |
| 8/27/19 | INC 2 - ADDENDUM 03 | |
| 11/12/19 | ASI #3 CCD-A | |
| 02/07/20 | ASI #3 CCD-A-100 | |
| 04/07/20 | CCDA-102 | |
| 08/11/20 | ASI 20 | |

TEMPORARY MEASURES EFFECTIVE DURING RAINY SEASON (OCTOBER 1 TO APRIL 30)

- TEMPORARY EROSION CONTROL DEVICES SHOWN ON GRADING PLAN WHICH INTERFERE WITH THE WORK SHALL BE RELOCATED OR MODIFIED WHEN THE INSPECTOR SO DIRECTS AS THE WORK PROGRESSES.
- EXCEPT AS OTHERWISE DIRECTED BY THE INSPECTOR, ALL DEVICES SHOWN ON THE EROSION CONTROL PLAN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY. ALL EROSION CONTROL FACILITIES MUST BE INSPECTED AND REPAIRED AT THE END OF EACH WORKING DAY DURING THE RAINY SEASON AND MAINTAINED DURING THE RAINY SEASON (OCTOBER 1 TO APRIL 15).
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE PROVISIONS OF THE ASSOCIATION OF BAY AREA GOVERNMENTS (ABAG) MANUAL OF STANDARDS FOR EROSION AND SEDIMENT CONTROL MEASURES UNLESS OTHERWISE STATED WITHIN THESE GENERAL NOTES. CONTROL MEASURES ARE SUBJECT TO THE INSPECTION AND APPROVAL OF THE ENGINEERING DIVISION OF THE PUBLIC SERVICES DEPARTMENT. SCHEDULE AN ENGINEERING INSPECTION BY CALLING 925-943-5839 AT LEAST 48 HOURS PRIOR TO THE START OF ANY WORK.
- ALL LOOSE SOIL AND DEBRIS SHALL BE REMOVED FROM THE STREET AREAS UPON STARTING OPERATIONS AND PERIODICALLY THEREAFTER AS DIRECTED BY THE INSPECTOR. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT LADEN RUNOFF TO ANY STORM DRAIN SYSTEM.
- THE CONTRACTOR SHALL PLACE 3"-4" FRACTURED STONE AGGREGATE AS A GRAVEL ROADWAY (6" MINIMUM THICKNESS FOR THE FULL WIDTH AND 50 FEET LONG) AT EACH ROAD ENTRANCE TO THE SITE. ANY MUD THAT IS TRACKED ONTO PUBLIC STREETS SHALL BE REMOVED THE SAME DAY AS REQUIRED BY THE CITY ENGINEER. MINIMUM WIDTH OF GRAVEL ROADWAY IS 10 FEET.
- A CONCRETE WASHOUT IS REQUIRED FOR ALL CONCRETE WORK. THE WASHOUT SHALL CONSIST OF A CONTAINMENT AREA ENCLOSED BY AN EARTHEN DIKE, PLASTIC TARP, COVERING THE CONTAINMENT AREA AND EARTHEN DIKE, SHALL BE STAKED IN AT OUTSIDE EDGE OF EARTHEN DIKE. ADDITIONAL CONTAINMENT METHODS MUST BE PROVIDED FOR ANY WASTE STORAGE AREA, STOCKPILE/MATERIAL STORAGE AREA AND/OR CONSTRUCTION TOILET AREA.
- IF THE PROJECT REQUIRES A STORMWATER POLLUTION PREVENTION PLAN (SWPPP), PROVIDE THE FOLLOWING:
WASTE DISCHARGE IDENTIFICATION NUMBER (WDID): _____

CONTACT PERSON'S NAME:
ERIC SWANSON

ADDRESS:
1646 N. CALIFORNIA BLVD., SUITE 400, WALNUT CREEK, CA 94596

TELEPHONE NUMBER:
925-940-2206

- STAND-BY CREWS SHALL BE ALERTED BY THE PERMITTEE OR CONTRACTOR FOR EMERGENCY WORK DURING RAINSTORMS.
- AFTER OCTOBER 1, ALL EROSION CONTROL MEASURES WILL BE INSPECTED DAILY AND AFTER EACH STORM. AFTER OCTOBER 1, BREACHES IN DIKES AND SWALES WILL BE REPAIRED AT THE CLOSE OF EACH DAY AND WHENEVER RAIN IS FORECAST.
- AS A PART OF THE EROSION CONTROL MEASURES, UNDERGROUND STORM DRAIN FACILITIES AND CONCRETE SHALL BE INSTALLED COMPLETE AS SHOWN ON THE IMPROVEMENT PLANS.
- ALL STORM DRAIN INLET STRUCTURES GREATER THAN FOUR FEET IN DEPTH SHALL HAVE STEPS INSTALLED PER THE LATEST ACCEPTED SAFETY STANDARDS. A 6" CONCRETE COVER SHALL BE INSTALLED OVER PIPE WITH LESS THAN 2.5 FEET OF COVER TO SUBGRADE. ALL PIPE TO BE CLASS III UNLESS OTHERWISE NOTED.
- ALL GRADED AREAS, INCLUDING, BUT NOT LIMITED TO, CUT AND FILL SLOPES, STREETS, PARKING AREAS, AND BUILDING PADS SHALL BE HYDROSEEDING PER ABAG. IN ADDITION TO HYDROSEEDING, APPLICATION OF STRAW WITH A TACKIFIER OR MULCH MAY BE REQUIRED BY THE CITY ENGINEER.
- IF ANY GRADING OPERATIONS, OTHER THAN LOT FINISH GRADING, ARE TO BE PERFORMED DURING THE RAINY SEASON, OCTOBER 1 THROUGH APRIL 30, AN EROSION CONTROL PLAN MUST BE SUBMITTED BY SEPTEMBER 1 AND THE PLAN MUST BE APPROVED BY THE CITY OF WALNUT CREEK PRIOR TO THE COMMENCEMENT OF ANY SUCH GRADING OPERATIONS.
- TO MINIMIZE EROSION OF GRADED BANKS, ALL GRADED BANKS STEEPER THAN 2% AND HIGHER THAN 3 FEET, SHALL BE HYDROSEEDING, LANDSCAPED, OR SEALED. IN ADDITION TO HYDROSEEDING, APPLICATION OF STRAW WITH A TACKIFIER OR MULCH MAY BE REQUIRED BY THE CITY ENGINEER. IF THE PERMANENT STORM DRAIN SYSTEM IS NOT INSTALLED BY OCTOBER 1, TEMPORARY DITCHES SHALL BE CONSTRUCTED TO CONTAIN THE STORM WATER AND DIRECT IT, IN A MANNER THAT AVOIDS EROSION OF THE BANKS, TO THE EROSION AND SEDIMENT CONTROL FACILITIES.
- ALL CUT AND FILL SLOPES ARE TO BE PROTECTED TO PREVENT OVERBANK FLOW USING 4" EARTH BERMS OR SILT FENCES.
- ALL GRADED AREAS, INCLUDING, BUT NOT LIMITED TO, CUT AND FILL SLOPES, STREETS, PARKING AREAS, AND BUILDING PADS SHALL BE HYDROSEEDING PER CITY'S REQUIREMENT. SUGGESTED MIX DESIGN FOLLOWS:

| | |
|------------------------------|---------------|
| 'BLANDO' BROME | 40 LBS/ACRE |
| ZORRO FESCUE | 10 LBS/ACRE |
| HYKON ROSE CLOVER | 9 LBS/ACRE |
| SUB CLOVER | 5 LBS/ACRE |
| CALIFORNIA NATIVE WILDFLOWER | 8 LBS/ACRE |
| FERTILIZER | 300 LBS/ACRE |
| ORGANIC BINDER | 100 LBS/ACRE |
| STRAW MULCH | 4000 LBS/ACRE |

- BORROW AREAS AND TEMPORARY STOCKPILES SHALL BE PROTECTED WITH APPROPRIATE EROSION CONTROL MEASURES TO THE SATISFACTION OF THE CITY ENGINEER.
- SANDBAGS, STRAW WATTLES AND/OR STRAW BALES SHALL BE STOCKPILED ON SITE AND PLACED AT INTERVALS SHOWN ON EROSION CONTROL PLANS, WHEN THE RAIN FORECAST IS 40% OR GREATER, OR WHEN DIRECTED BY THE INSPECTOR.
- SANDBAGS REFERRED TO IN THE PRECEDING ITEMS MUST BE FULL APPROVED SANDBAG FILL MATERIALS ARE DECOMPOSED GRANITE AND/OR GRAVEL, OR OTHER MATERIALS APPROVED BY THE INSPECTOR.
- WHEN DIRECTED BY THE INSPECTOR, A 12-INCH BERM SHALL BE MAINTAINED ALONG THE TOP OF THE SLOPE OF THOSE FILLS ON WHICH GRADING IS NOT IN PROGRESS.
- WHEN PAD ELEVATIONS OF ADJACENT LOTS OR ELEVATIONS BETWEEN THE STREET AND THE LOT ARE SEPARATED BY MORE THAN 6 FEET, A MINIMUM

12" BERM SHALL BE MAINTAINED ALONG THE PROPERTY LINE SEPARATING THE LOTS, AND THE BERM SHALL DIRECT THE WATER TO THE OUTLET. VELOCITY CHECK DAMS SHALL BE INSTALLED BETWEEN THE OUTLET ON THE LOT AND THE STREET.

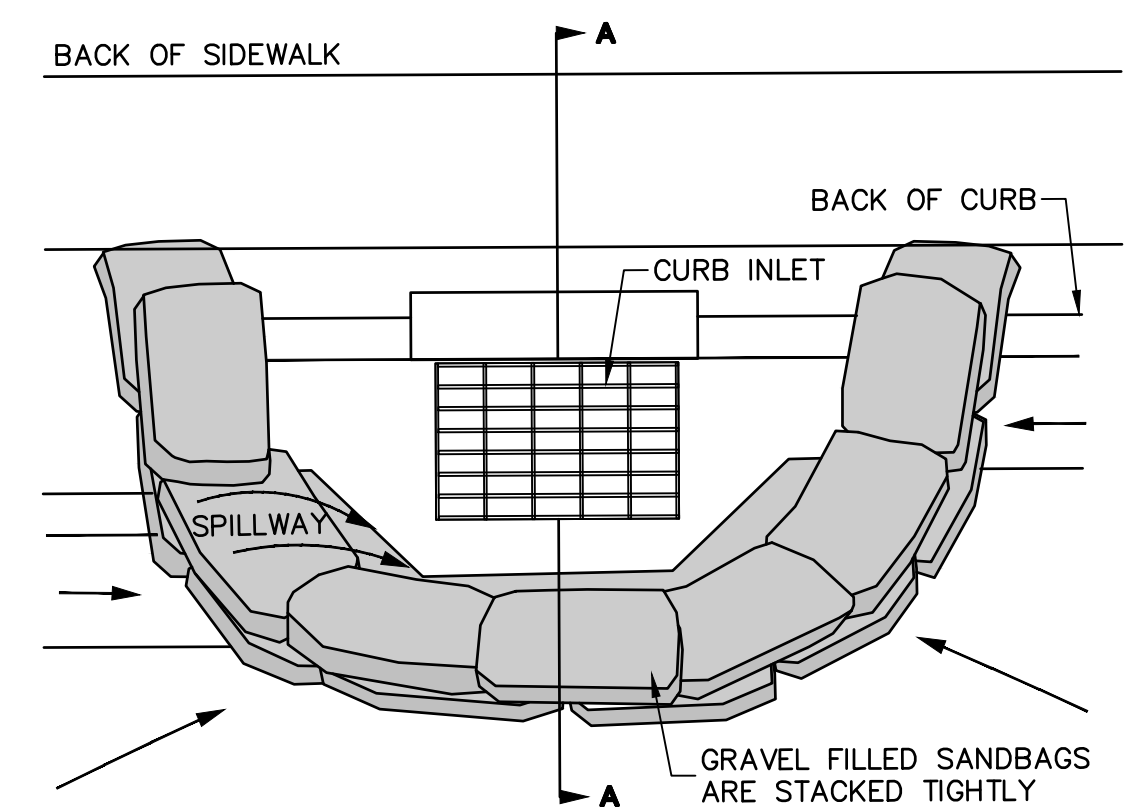
- PROVIDE VELOCITY CHECK DAMS IN ALL UNPAVED STREETS AT THE INTERVALS INDICATED BELOW IN NOTE #24. VELOCITY CHECK DAMS MAY BE CONSTRUCTED OF STRAW BALES, SANDBAGS OR OTHER EROSION RESISTANT MATERIALS APPROVED BY THE INSPECTOR, AND SHALL EXTEND COMPLETELY ACROSS THE STREET OR CHANNEL AT RIGHT ANGLES TO THE CENTERLINE. EARTH DIKES MAY NOT BE USED AS VELOCITY CHECK DAMS.
- PROVIDE VELOCITY CHECK DAMS IN ALL UNPAVED GRADED CHANNELS AT THE INTERVALS INDICATED BELOW:

| GRADE OF CHANNEL | INTERVAL |
|------------------|----------|
| LESS THAN 3% | 100 FEET |
| 3% TO 6% | 50 FEET |
| OVER 6% | 25 FEET |

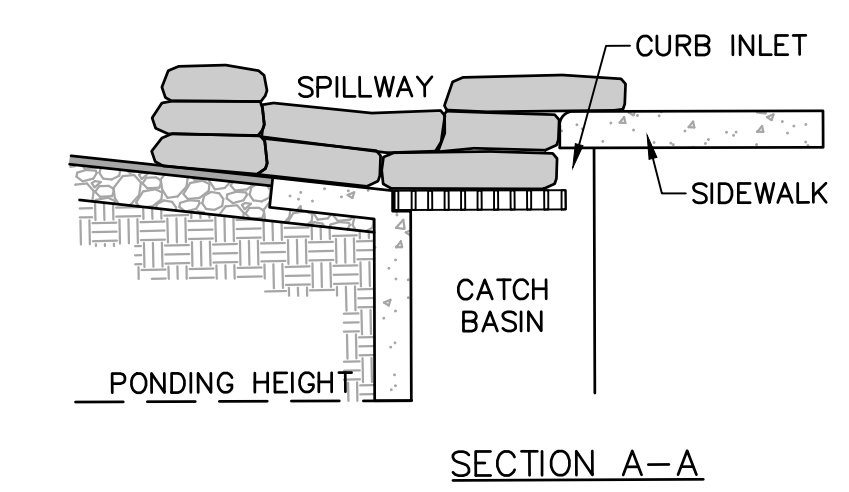
- SEWER OR STORM DRAIN TRENCHES THAT ARE OUT THROUGH BASIN DIKES OR BASIN INLET DIKES, SHALL BE PLUGGED WITH SANDBAGS FROM TOP OF PIPE TO TOP OF DIKE. SEWER LINES SHALL FIRST BE ENCASED IN CONCRETE BEFORE SANDBAGS ARE PLACED.
- ALL OPEN UTILITY TRENCHES SHALL BE BLOCKED AT THE PRESCRIBED INTERVALS FROM THE BOTTOM TO TOP WITH A DOUBLE ROW OF SANDBAGS PRIOR TO BACKFILL. SEWER TRENCHES SHALL BE BLOCKED AT THE PRESCRIBED INTERVALS WITH A DOUBLE ROW OF SANDBAGS EXTENDING DOWNWARD, TWO SANDBAGS FROM THE GRADED SURFACE OF THE STREET. SANDBAGS ARE TO BE PLACED WITH ALTERNATE HEADER AND STRETCHER COURSES. THE INTERVALS PRESCRIBED BETWEEN SANDBAG LOCKING SHALL DEPEND ON THE SLOPE OF THE GROUND SURFACE, BUT NOT EXCEED THE FOLLOWING:

| GRADE OF THE STREET | INTERVAL |
|---------------------|-------------|
| LESS THAN 2% | AS REQUIRED |
| 2% TO 4% | 100 FEET |
| 4% TO 10% | 50 FEET |
| OVER 10% | 25 FEET |

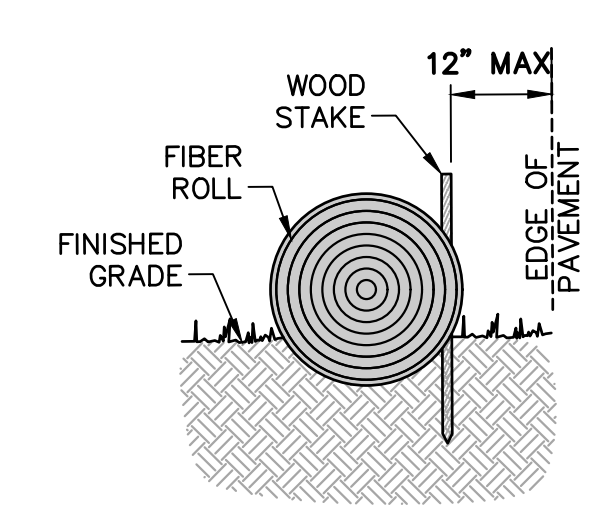
- AFTER STORM DRAIN, SANITARY SEWER AND UTILITY TRENCHES ARE BACKFILLED AND COMPACTED, THE SURFACES OVER SUCH TRENCHES SHALL BE MOUNDING SLIGHTLY TO PREVENT CHANNELING OF WATER IN THE TRENCH AREA. CARE SHOULD BE EXERCISED TO PROVIDE FOR CROSS FLOW AT FREQUENT INTERVALS WHERE TRENCHES ARE NOT ON THE CENTER LINE OF A CROWNED STREET.
- SEDIMENT TRAPS SHALL BE CLEANED OUT WHENEVER SEDIMENT REACHES THE SEDIMENT CLEANOUT LEVEL INDICATED ON THE DETAIL ON THIS SHEET. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAN THE DESILTING BASINS AND THE SEDIMENT TRAPS.
- THIS PLAN MAY NOT COVER ALL THE SITUATIONS THAT ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. VARIATIONS MAY BE MADE TO THESE PLANS IN THE FIELD, SUBJECT TO APPROVAL OF THE CITY ENGINEER.
- EROSION CONTROL STRUCTURES SHALL BE ADJUSTED BY THE CONTRACTOR TO REFLECT ALL CHANGES IN DRAINAGE AS STREETS AND BUILDING PADS ARE BEING INSTALLED.
- PRIOR TO ISSUANCE OF PERMIT, CONTRACTOR SHALL SUBMIT TO CITY A PLAN THAT SHOWS: LOCATION OF CONSTRUCTION ENTRANCE, CONCRETE WASHOUT LOCATION, WASTE STORAGE AND STOCKPILE LOCATIONS AND CONTAINMENT THEREOF, AND LOCATION OF CONSTRUCTION TOILETS.



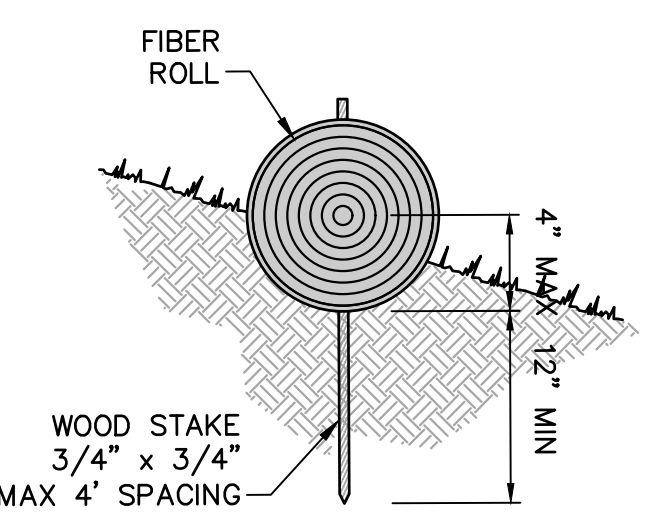
① CURB INLET SEDIMENT BARRIER
NOT TO SCALE



- NOTES:
- PLACE CURB TYPE SEDIMENT BARRIERS ON GENTLY SLOPING STREET SEGMENTS, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
 - SANDBAGS OF EITHER BURLAP OR WOVEN 'GEOTEXTILE' FABRIC, ARE FILLED WITH GRAVEL LAYERED AND PACKED TIGHTLY.
 - LEAVE A ONE SANDBAG GAP IN THE TOP ROW TO PROVIDE A SPILLWAY FOR OVERFLOW.
 - INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.



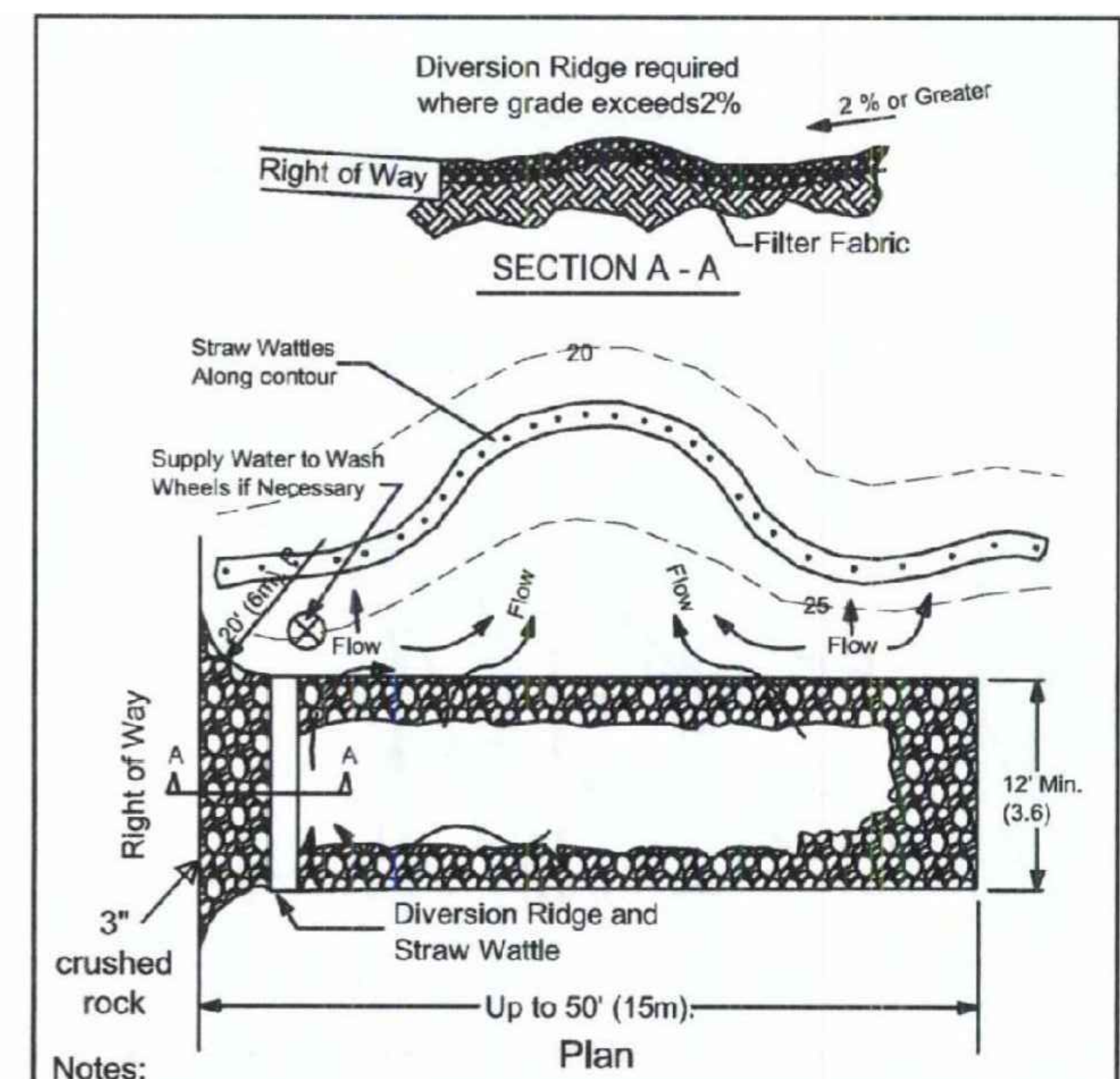
ENTRENCHMENT DETAIL
IN FLAT AREA



ENTRENCHMENT DETAIL
IN SLOPED AREA

- NOTES
- FIBER ROLLS ARE TUBES MADE FROM POROUS BIODEGRADABLE FIBER STUFFED IN A PHOTO-DEGRADABLE OPEN WEAVE NETTING. THEY ARE APPROXIMATELY 8" DIAMETER.
 - FIBER ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 2"-4" DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL. ROLLS SHOULD BE ADJUSTED SECURELY TO PROVIDE A TIGHT JOINT, NOT OVERLAPPED.

② FIBER ROLL
NOT TO SCALE



- Notes:
- The entrance shall be maintained to prevent sediment tracking or flowing onto public right-of-ways. This may require top dressing, repair and/or cleanout or other measures that trap sediment.
 - When necessary, wheels shall be cleaned prior to entering public right-of-way.
 - When washing is required, it shall be done on an area stabilized with crushed stone that drains into an approved sediment trap or sediment basin

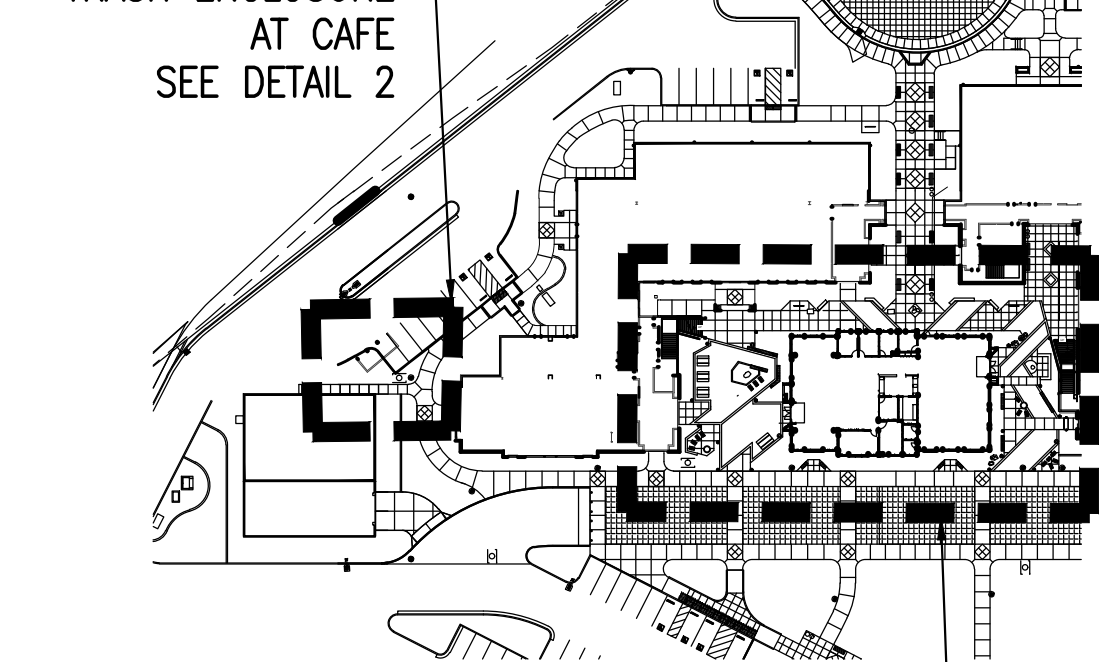
③ Site Entrance



THESE DRAWINGS HAVE BEEN PREPARED FROM ADDENDUMS, CCD'S, ASIS AND SELECT RFIS OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM. ONLY A SELECT FEW AS-BUILTS WERE SUBMITTED.

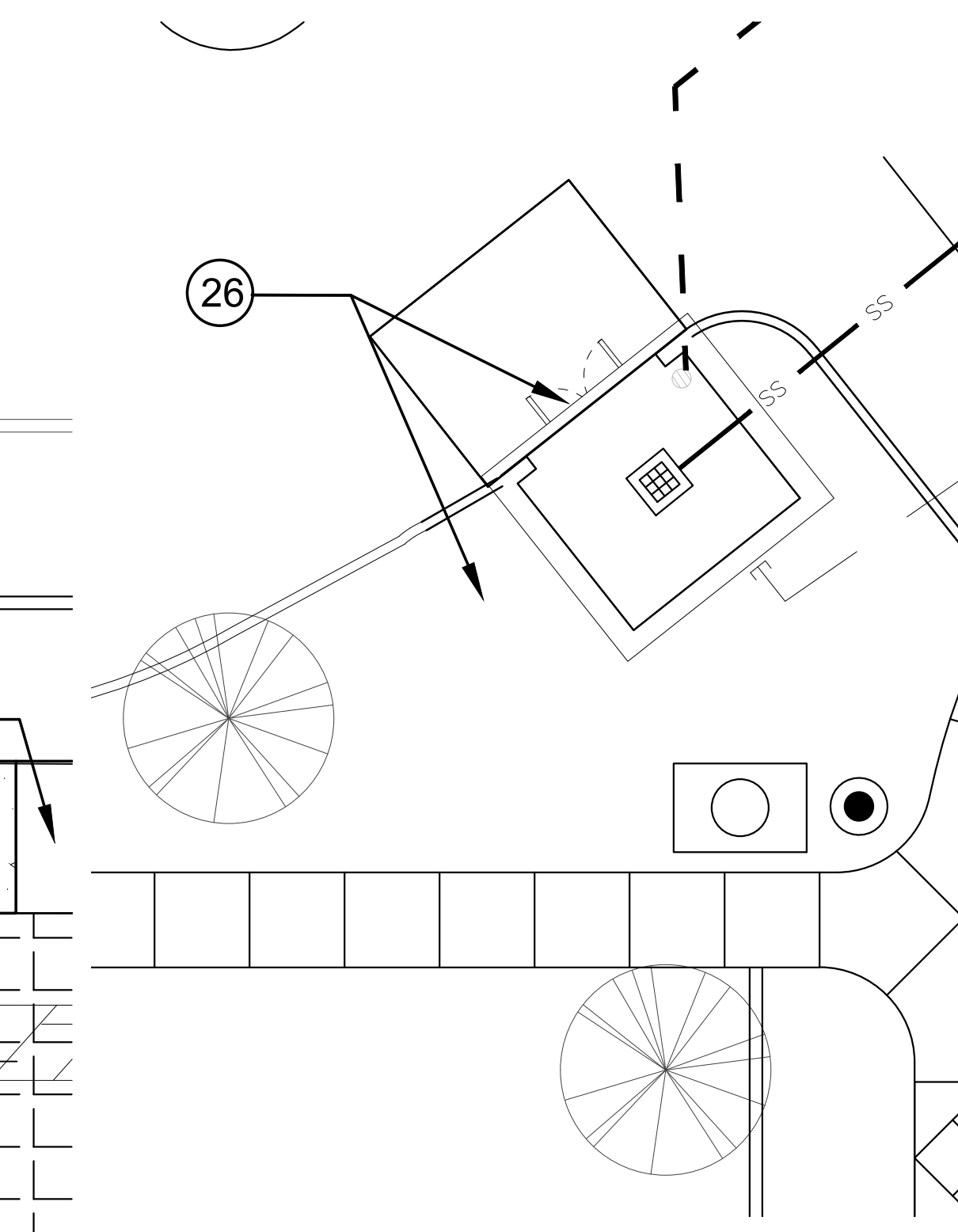
| NO. | DATE | DESCRIPTION |
|-----|----------|-------------|
| 1 | 3/9/2021 | RFI 250 |

TRASH ENCLOSURE AT CAFE
SEE DETAIL 2



SITE PLAN AT LLRC
SEE DETAIL 1

KEY MAP
N.T.S.



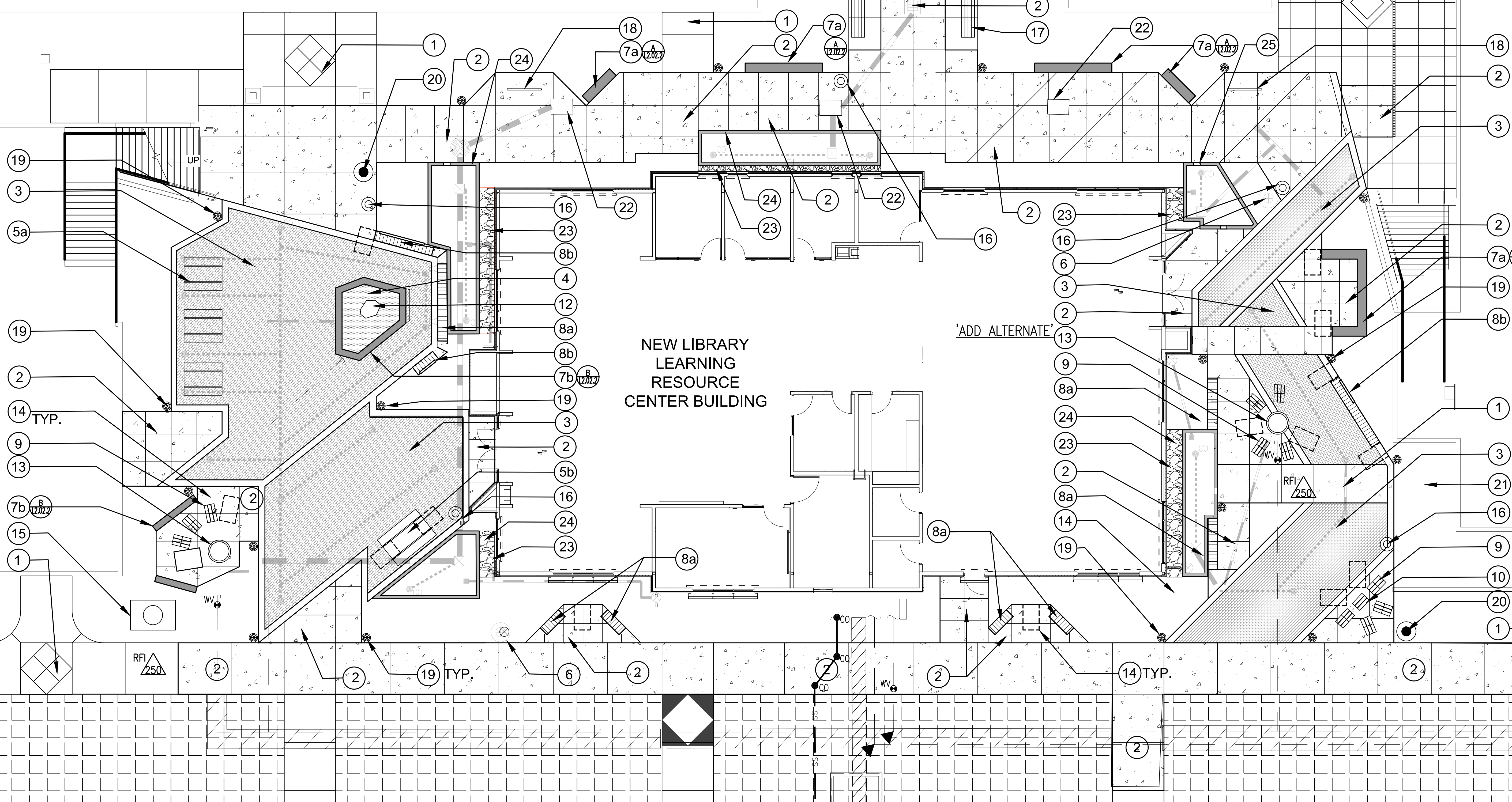
TRASH ENCLOSURE AT CAFE



EXISTING
ADMINISTRATION
BUILDING

NEW LIBRARY
LEARNING
RESOURCE
CENTER BUILDING

'ADD ALTERNATE'



1 SITE PLAN AT LLRC

LANDSCAPE SITE KEY NOTES

- 1 EXISTING CONCRETE PAVING TO REMAIN, TYP
- 2 NEW COLORED CONCRETE PAVING, TYP
SEE DETAIL A, B & C, SHEET L2.01.2
- 3 PERMEABLE PAVING FIELD AND ACCENT BANDS, TYP
SEE DETAIL E & F, SHEET L2.01.2
- 4 PEBBLE PAVING, TYP
SEE DETAIL G & H, SHEET L2.01.2 AND DETAIL J, SHHET L2.03.2 FOR LAYOUT
- 5a TABLE AND BENCH (71" LENGTH), TYP
SEE DETAIL E, SHEET L2.03.2 (SIM); OWNER FURNISHED AND CONTRACTOR INSTALLED
- 5b ADA ACCESSIBLE TABLE AND BENCH (92" LENGTH),
SEE DETAIL E, SHEET L2.03.2: OWNER FURNISHED AND CONTRACTOR INSTALLED
- 6 EXISTING LIGHT POST TO REMAIN AND PROTECTED
- 7a CONCRETE SEAT WALL-A, TYP.
SEE DETAIL A, SHEET L2.02.2, DETAIL D, SHEET L2.01.2 & LAYOUT PLAN FOR LENGTH
- 7b CONCRETE SEAT WALL-B, SEE DETAIL B, SHEET L2.02.2, DETAIL D, SHEET L2.01.2 & LAYOUT PLAN FOR LENGTH
- 8a CONCRETE SEAT WALL WITH WOOD SLAT SEATING, TYP.
SEE DETAIL C, SHEET L2.02.2 FOR DETAIL (SIM), LAYOUT PLAN FOR LENGTH, & DETAIL F & G, SHEET L2.01.2
- 8b CONCRETE SEAT WALL WITH WOOD SLAT SEATING AND BACK REST, TYP.
SEE DETAIL C, SHEET L2.02.2 FOR DETAIL, LAYOUT PLAN FOR LENGTH, & DETAIL D & E, SHEET L2.01.2
- 9 WOOD SLAT LOUNGE BENCH, TYP.
SEE DETAIL C, SHEET L2.03.2: OWNER FURNISHED AND CONTRACTOR INSTALLED
- 10 WOOD SLAT LOUNGE TABLE
SEE DETAIL D, SHEET L2.03.2: OWNER FURNISHED AND CONTRACTOR INSTALLED
- 11 NOT USED
- 12 GRANITE COLUMN FOUNTAIN
SEE DETAIL G & I SHEET L2.03.2
- 13 ROUND STONE FOUNTAIN, TYP.
SEE DETAIL H, SHEET L2.03.2
- 14 30" X 48" WHEEL CHAIR ACCESSIBLE SPACE
- 15 EXISTING UTILITY VAULT TO REMAIN.
- 16 TRASH RECEPTACLES, TYP.
SEE DETAIL B, SHEET L2.03.2: OWNER FURNISHED AND CONTRACTOR INSTALLED
- 17 EXISTING SITE FURNISHING TO REMAIN.
- 18 BIKE RACK, TYP.
SEE DETAIL A, SHEET L2.03.2
- 19 LIGHT BOLLARD, TYP.
SEE DETAIL F, SHEET L2.03.2
- 20 PROPOSED LOCATION FOR EXISTING LIGHT
SEE ELECTRICAL PLAN
- 21 EXISTING BUILDING CANOPY TO REMAIN AND PROTECTED
- 22 EXISTING SSDI TO REMAIN. SCP
- 23 GRAVEL MULCH BETWEEN BUILDING AND FTP WALL
SEE DETAIL E, SHEET L4.02.2
- 24 PROPOSED FTP. SCP
- 25 TRASH ENCLOSURE, SAP.
INSTALL NEW PLATING AT IMPACTED PLANTING AREA.
SEE DETAIL 2, SHEET L4.01.2

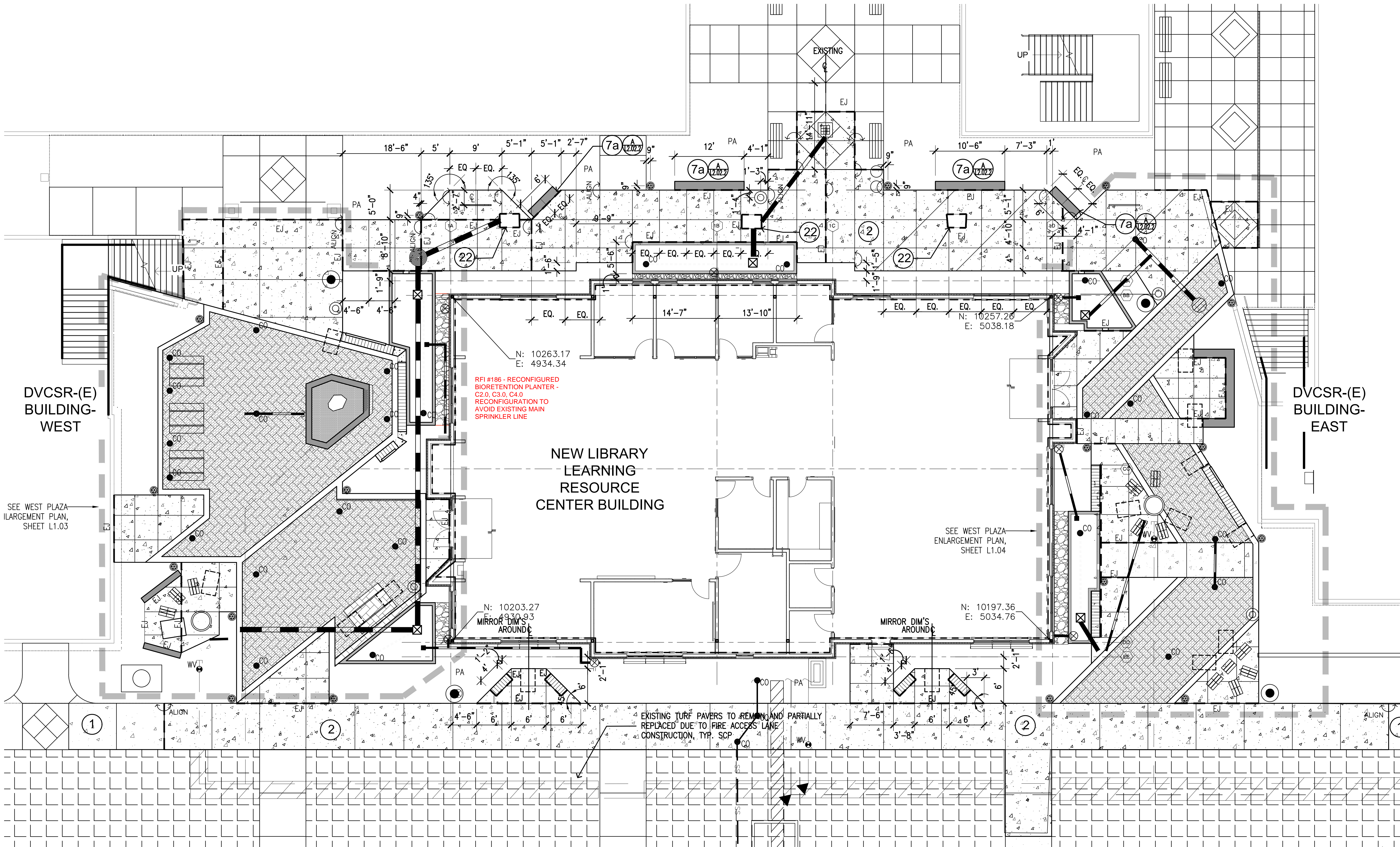
90/10 Tall Fescue
Penn RK4 Tall Fescue
Rebel XLR Tall Fescue
Firecracker SLS Tall Fescue
Ridgeline Kentucky Bluegrass

RFI #242 - SOD LAYDOWN AREA REPAIR - 90/10 TALL FESCUE

RFI #246 - TIMELOCKS FOR (3) FOUNTAINS. USE SINGLE TIMELOCK FOR 3 FOUNTAIN PUMPS. CIRCUIT THE 2 SMALLER PUMPS (PAF-405V) TO LLRC-59 WITH 20A GFCI CIRCUIT BREAKERS AS SHOWN ON E4.01.2. PROVIDE ADDITIONAL CIRCUIT FOR LARGE FOUNTAIN PUMP (PAF-755V). LLRC-57, 20A GFCI CIRCUIT BREAKER.

RFI #277275 - NO ANCHOR REQUIRED FOR TABLE AND BENCH. ANCHOR WITH THREAD ROD AT TRASH CAN UNITS.

These drawings have been prepared based on information submitted, in part, by others. Landscape Architect has provided a review consistent with its legal standard of care.



ABBREVIATIONS

| | |
|--------|-------------------------|
| SYMBOL | DESCRIPTION |
| EQ | EQUAL |
| (E) | EXISTING |
| EXIST | EXISTING |
| (N) | NEW |
| PA | PLANTING AREA |
| R | RADIUS |
| TYP | TYPICAL |
| — | EXPANSION JOINT |
| — | SCORE MARK |
| CL | CENTER LINE |
| CTR | CENTER |
| BLDG | BUILDING |
| FOB | FACE OF BUILDING |
| CONT | CONTINUOUS |
| NTS | NOT TO SCALE |
| W/ | WITH |
| W/OUT | WITHOUT |
| SAP | SEE ARCHITECTS PLANS |
| SCP | SEE CIVIL PLANS |
| SEP | SEE ELECTRICAL PLANS |
| SDDI | STORM DRAIN DRAIN INLET |

- GENERAL LAYOUT NOTES**
- FOR MARKING UNDERGROUND FACILITIES, CALL UNDERGROUND SERVICE ALERT MINIMUM TWO DAYS PRIOR TO DIGGING: 1-800-227-2600, BETWEEN 6:00 AM - 7:00 PM, MONDAY - FRIDAY, EXCEPT HOLIDAYS.
 - CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. LOCATIONS OF ALL PROPOSED UTILITIES, INCLUDING AREA DRAINS, MANHOLES AND VAULTS AS INDICATED ON CIVIL DRAWINGS.
 - STAKE LOCATION OF ALL LANDSCAPE ELEMENTS INCLUDING PAVING, SITE FURNITURE, ETC. FOR APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
 - DIMENSIONS ARE TO: EDGE OF PAVING, EDGE OF HEADER, FACE OF CURB OR FACE OF WALL, UNLESS OTHERWISE NOTED.
 - DRAWINGS SHALL NOT BE SCALED. WRITTEN DIMENSIONS TAKE PRECEDENCE. IF CONTRACTOR FINDS A DISCREPANCY WITH WRITTEN DIMENSIONS, NOTIFY OWNER'S REPRESENTATIVE BEFORE PROCEEDING WITH WORK. COORDINATE ALL CONSTRUCTION ELEMENTS PRIOR TO INSTALLATION. VERIFY CRITICAL DIMENSIONS, REFERENCE, AND CONSTRUCTION CONDITIONS PRIOR TO INITIATING WORK.
 - LAYOUT OF PAVED AREAS MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO PLACEMENT OF PAVING. IF NECESSARY, THE CONTRACTOR SHALL ADJUST LAYOUT AS DIRECTED BY THE OWNER'S REPRESENTATIVE. IN THE EVENT WORK IS ACCOMPLISHED WITHOUT APPROVAL, CONTRACTOR SHALL REMOVE AND REPLACE WORK, AS DIRECTED BY THE OWNER'S REPRESENTATIVE, AT NO ADDITIONAL COST TO THE OWNER.
 - TRANSITIONS BETWEEN SLOPES AND RELATIVELY FLAT AREAS, WHETHER EXISTING OR NEW, SHALL BE ROUNDED, GRADUAL AND SLOPED TO DRAIN. LOW SPOTS WHICH HOLD WATER SHALL NOT BE PERMITTED.
 - THE CONTRACTOR SHALL BE RESPONSIBLE UNDER THIS CONTRACT FOR REPAIRING OR REPLACING AT HIS OWN EXPENSE, ANY STRUCTURES, WALLS, PLANT MATERIAL, SITE FURNISHINGS, OR PAVING DAMAGED OR DESTROYED. THE DAMAGED ITEM(S) WILL BE RESTORED TO THEIR ORIGINAL CONDITION OR REPLACED TO THE OWNER'S REPRESENTATIVE.
 - THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL UTILITY COMPANIES FOR SERVICE RELOCATIONS, SHUTDOWNS, ETC.

2 SITE LAYOUT PLAN

LANDSCAPE SITE KEY NOTES

- | | | | | | | | | |
|----|--|--|----|--|---|---|--|--|
| ① | | EXISTING CONCRETE PAVING TO REMAIN, TYP | ③a | | CONCRETE SEAT WALL WITH WOOD SLAT SEATING, TYP. SEE DETAIL C, SHEET L2.02.2 FOR DETAIL (SIM), LAYOUT PLAN FOR LENGTH, & DETAIL F & G, SHEET L2.01.2 | ⑮ | | EXISTING UTILITY VAULT TO REMAIN. |
| ② | | NEW COLORED CONCRETE PAVING, TYP SEE DETAIL A, B & C, SHEET L2.01.2 | ③b | | CONCRETE SEAT WALL WITH WOOD SLAT SEATING AND BACK REST, TYP. SEE DETAIL C, SHEET L2.02.2 FOR DETAIL, LAYOUT PLAN FOR LENGTH, & DETAIL D & E, SHEET L2.01.2 | ⑯ | | TRASH RECEPTACLES, TYP. SEE DETAIL B, SHEET L2.03.2: OWNER FURNISHED AND CONTRACTOR INSTALLED |
| ③ | | PERMEABLE PAVING FIELD AND ACCENT BANDS, TYP SEE DETAIL E & F, SHEET L2.01.2 | ④ | | PEBBLE PAVING, TYP SEE DETAIL G & H, SHEET L2.01.2 AND DETAIL J, SHHET L2.03.2 FOR LAYOUT | ⑰ | | EXISTING SITE FURNISHING TO REMAIN. |
| ④ | | PEBBLE PAVING, TYP SEE DETAIL G & H, SHEET L2.01.2 AND DETAIL J, SHHET L2.03.2 FOR LAYOUT | ⑤a | | TABLE AND BENCH (71" LENGTH), TYP SEE DETAIL E, SHEET L2.03.2 (SIM): OWNER FURNISHED AND CONTRACTOR INSTALLED | ⑱ | | BIKE RACK, TYP. SEE DETAIL A, SHEET L2.03.2 |
| ⑤a | | TABLE AND BENCH (71" LENGTH), TYP SEE DETAIL E, SHEET L2.03.2 (SIM): OWNER FURNISHED AND CONTRACTOR INSTALLED | ⑤b | | ADA ACCESSIBLE TABLE AND BENCH (92" LENGTH). SEE DETAIL E, SHEET L2.03.2: OWNER FURNISHED AND CONTRACTOR INSTALLED | ⑲ | | LIGHT BOLLARD, TYP. SEE DETAIL F, SHEET L2.03.2 |
| ⑥ | | EXISTING LIGHT POST TO REMAIN AND PROTECTED | ⑥ | | GRANITE COLUMN FOUNTAIN SEE DETAIL G & I SHEET L2.03.2 | ⑳ | | PROPOSED LOCATION FOR EXISTING LIGHT SEE ELECTRICAL PLAN |
| ⑦a | | CONCRETE SEAT WALL-A, TYP. SEE DETAIL A, SHEET L2.02.2, DETAIL D, SHEET L2.01.2 & LAYOUT PLAN FOR LENGTH | ⑦b | | CONCRETE SEAT WALL-B, SEE DETAIL B, SHEET L2.02.2, DETAIL D, SHEET L2.01.2 & LAYOUT PLAN FOR LENGTH | ㉑ | | EXISTING BUILDING CANOPY TO REMAIN AND PROTECTED |
| ⑧ | | EXISTING LIGHT POST TO REMAIN AND PROTECTED | ⑨ | | WOOD SLAT LOUNGE BENCH, TYP. SEE DETAIL C, SHEET L2.03.2: OWNER FURNISHED AND CONTRACTOR INSTALLED | ㉒ | | EXISTING SSDI TO REMAIN. SCP |
| ⑨ | | WOOD SLAT LOUNGE BENCH, TYP. SEE DETAIL C, SHEET L2.03.2: OWNER FURNISHED AND CONTRACTOR INSTALLED | ⑩ | | WOOD SLAT LOUNGE TABLE SEE DETAIL D, SHEET L2.03.2: OWNER FURNISHED AND CONTRACTOR INSTALLED | ㉓ | | GRAVEL MULCH BETWEEN BUILDING AND FTP WALL SEE DETAIL E, SHEET L4.02.2 |
| ⑩ | | WOOD SLAT LOUNGE TABLE SEE DETAIL D, SHEET L2.03.2: OWNER FURNISHED AND CONTRACTOR INSTALLED | ⑪ | | NOT USED | ㉔ | | PROPOSED FTP. SCP |
| ⑪ | | NOT USED | ⑫ | | GRANITE COLUMN FOUNTAIN SEE DETAIL G & I SHEET L2.03.2 | ㉕ | | TRASH ENCLOSURE, SAP. INSTALL NEW PLATING AT IMPACTED PLANTING AREA. SEE DETAIL 2, SHEET L4.01.2 |
| ⑫ | | GRANITE COLUMN FOUNTAIN SEE DETAIL G & I SHEET L2.03.2 | ⑬ | | ROUND STONE FOUNTAIN, TYP. SEE DETAIL H, SHEET L2.03.2 | | | |
| ⑬ | | ROUND STONE FOUNTAIN, TYP. SEE DETAIL H, SHEET L2.03.2 | ⑭ | | 30" X 48" WHEEL CHAIR ACCESSIBLE SPACE | | | |

APPROVALS

NOLL & TAM ARCHITECTS

729 Heinz Avenue
Berkeley, CA 94710
tel 510.542.2200
fax 510.542.2201

ARCHITECTS SEAL



Morris
Landscape Architects & Planners
249 Forest Street San Francisco, CA 94111
415.271.8900
www.morris-morris.com

PROJECT TITLE

**CONTRA COSTA
CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION &
RENOVATION**

1690 Watermill Rd.
San Ramon, CA 94582

RECORD SET:

THESE DRAWINGS HAVE BEEN PREPARED FROM ADDENDUMS, CCD'S, ASIS AND SELECT RFIS OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM. ONLY A SELECT FEW AS-BUILTS WERE SUBMITTED.

ISSUE TITLE
INCREMENT 2

ISSUE DATE 5/30/2019

NOLL & TAM JOB NUMBER 21630

REVISIONS

DATE DESCRIPTION

SHEET TITLE

**LANDSCAPE SITE
LAYOUT PLAN**

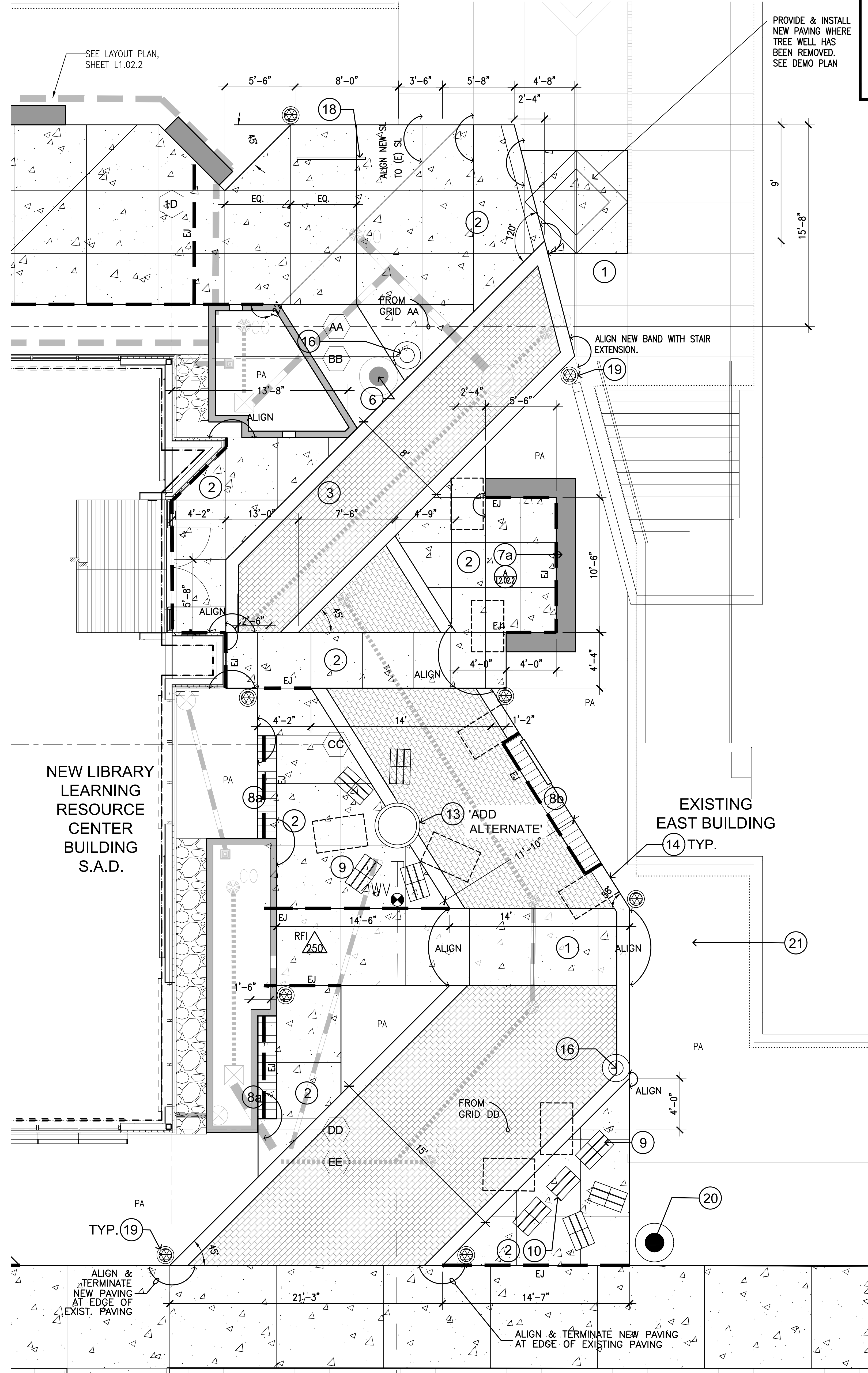
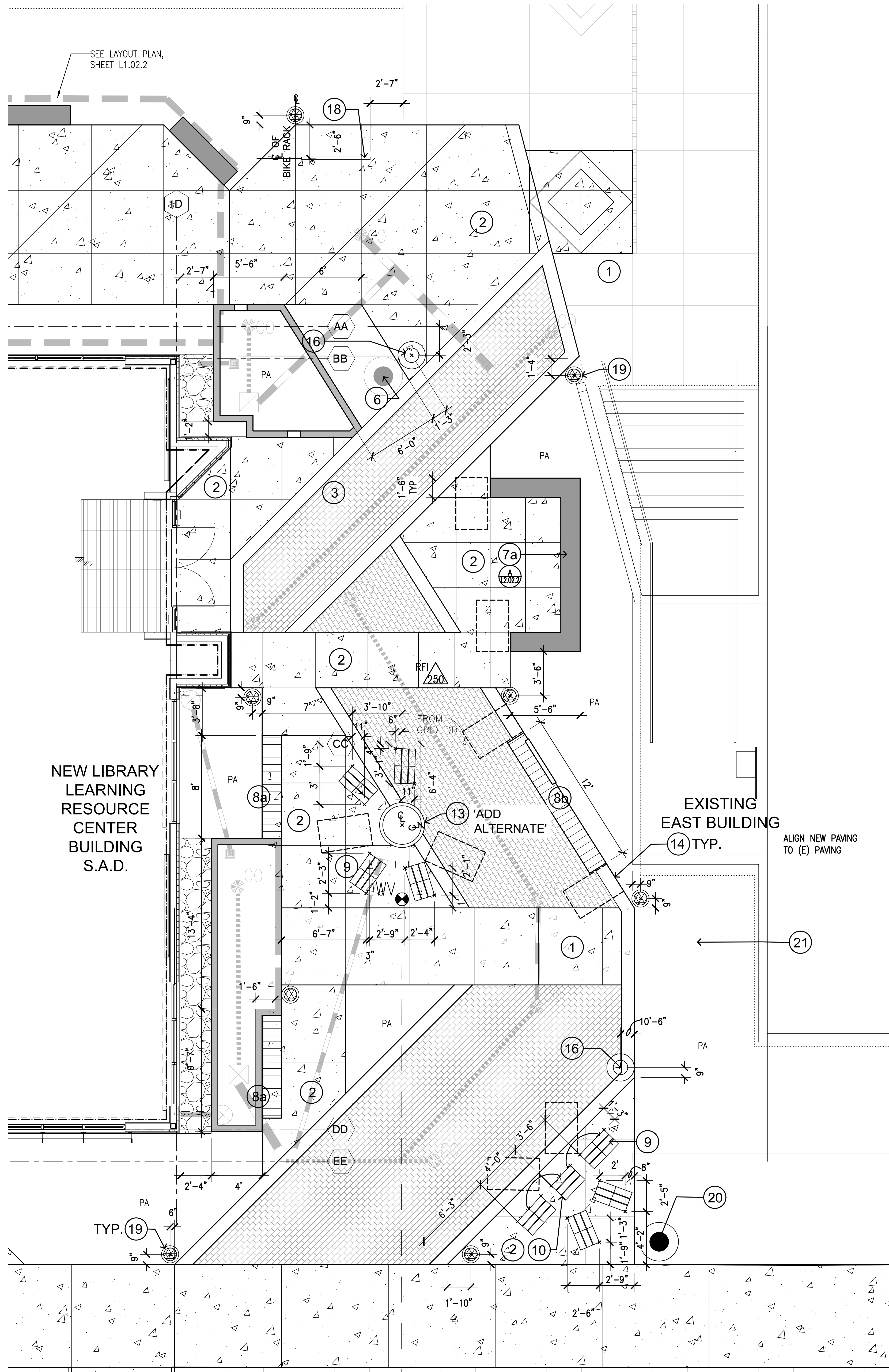
SHEET NUMBER

L1.02.2

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SEE SHEET L1.01.2 FOR LANDSCAPE SITE KEY NOTES

APPROVALS



PROVIDE & INSTALL NEW PAVING WHERE TREE WELL HAS BEEN REMOVED. SEE DEMO PLAN

NOLL & TAM
ARCHITECTS

729 Heinz Avenue
Berkeley, CA 94710
tel 510.542.2200
fax 510.542.2201

ARCHITECTS SEAL



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ISSUE TITLE

INCREMENT 2

ISSUE DATE 5/30/2019

NOLL & TAM JOB NUMBER 21630

REVISIONS

| DATE | DESCRIPTION |
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| 250 3/9/2021 | RFI 250 |

250 3/9/2021 RFI 250

SHEET TITLE

**EAST PLAZA
ENLARGEMENT PLAN**

SHEET NUMBER

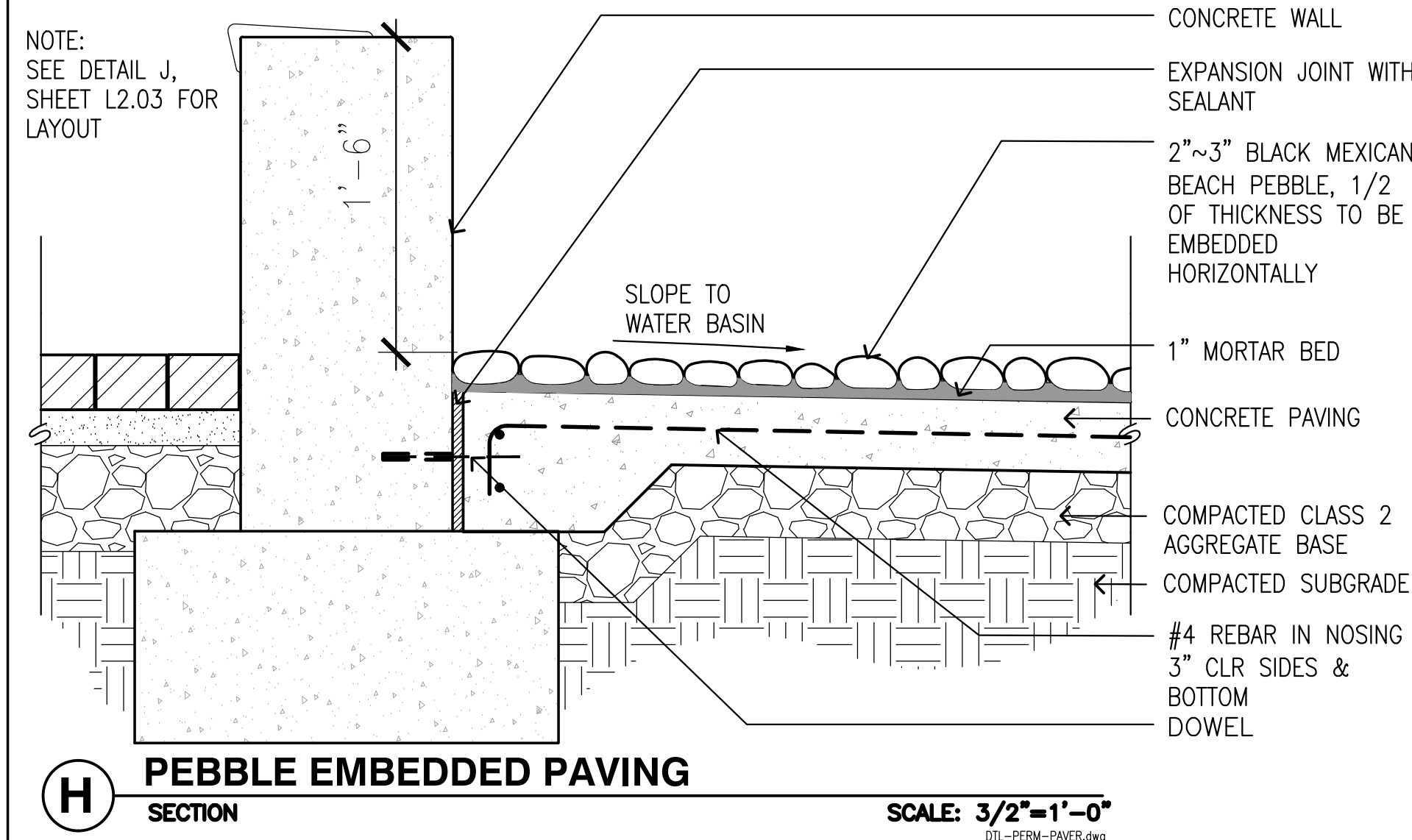
L1.04.2

2 SITE LAYOUT PLAN

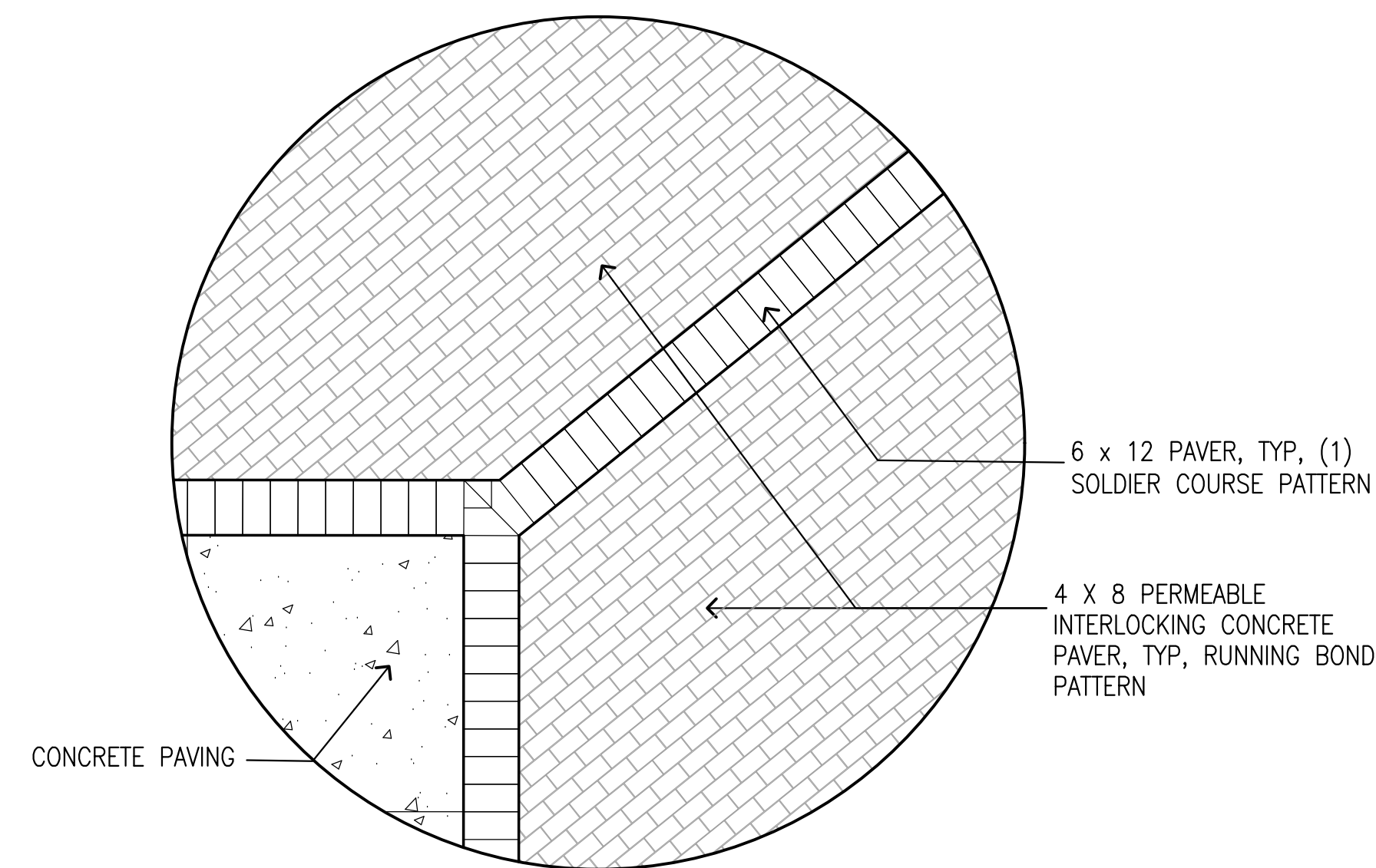
2 PAVING LAYOUT PLAN

These drawings have been prepared based on information submitted, in part, by others. Landscape Architect has provided a review consistent with its legal standard of care.

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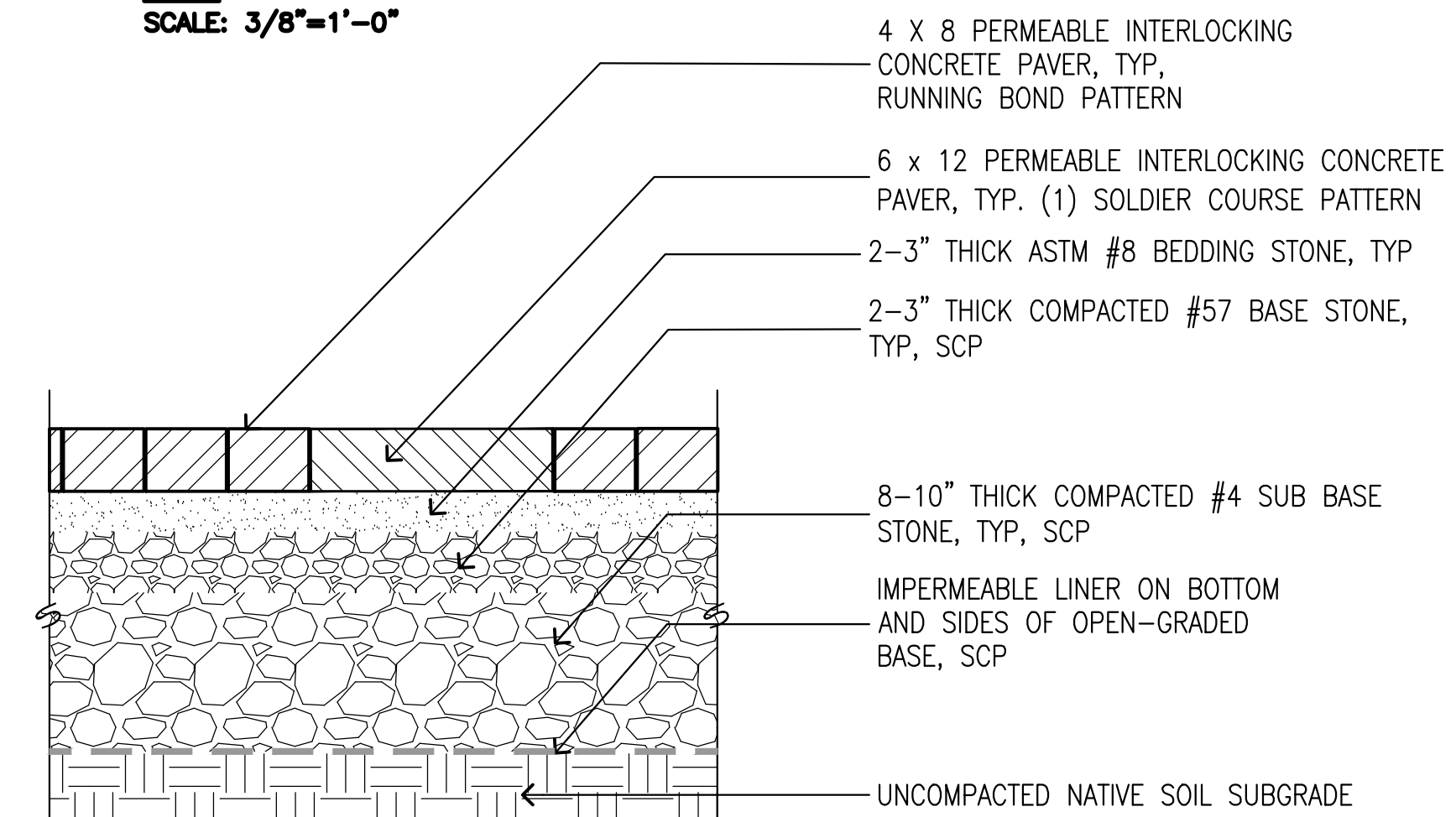


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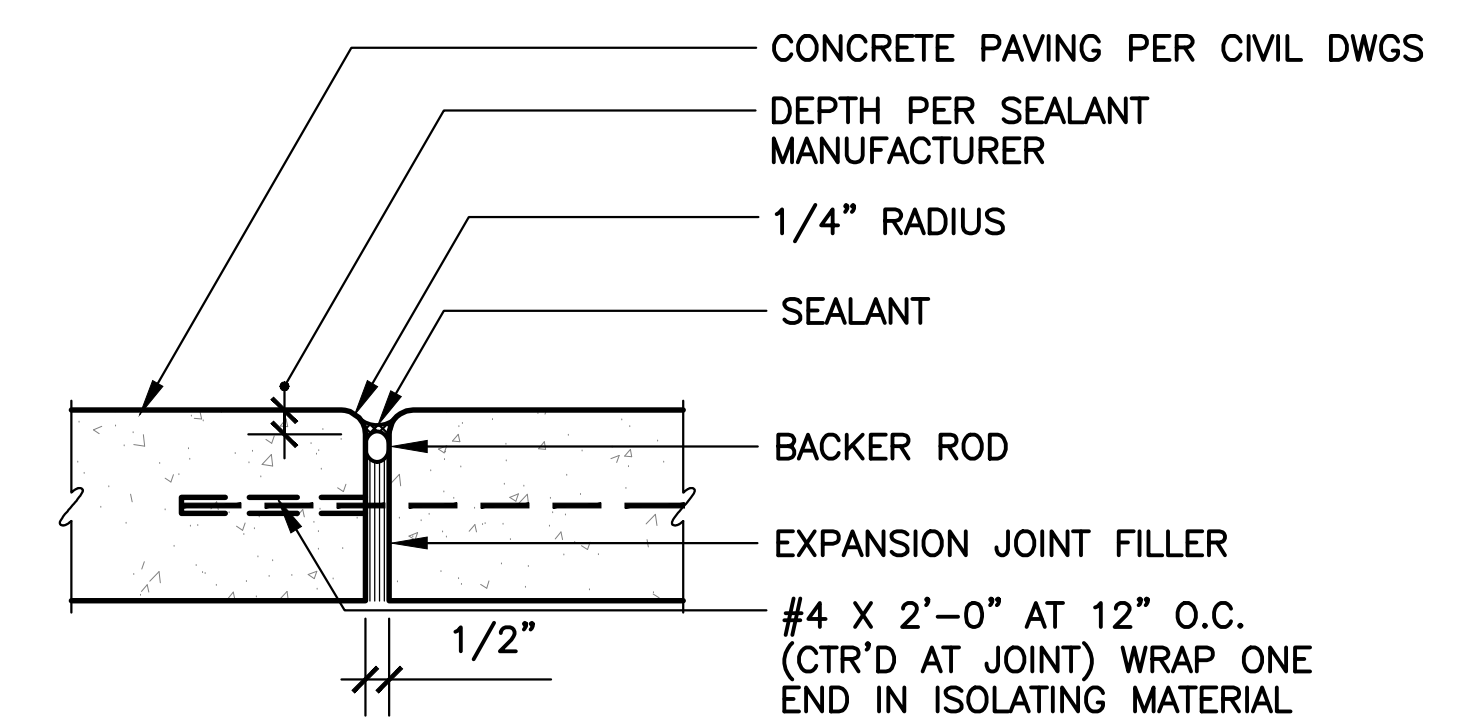


TYPICAL PAVING LAYOUT

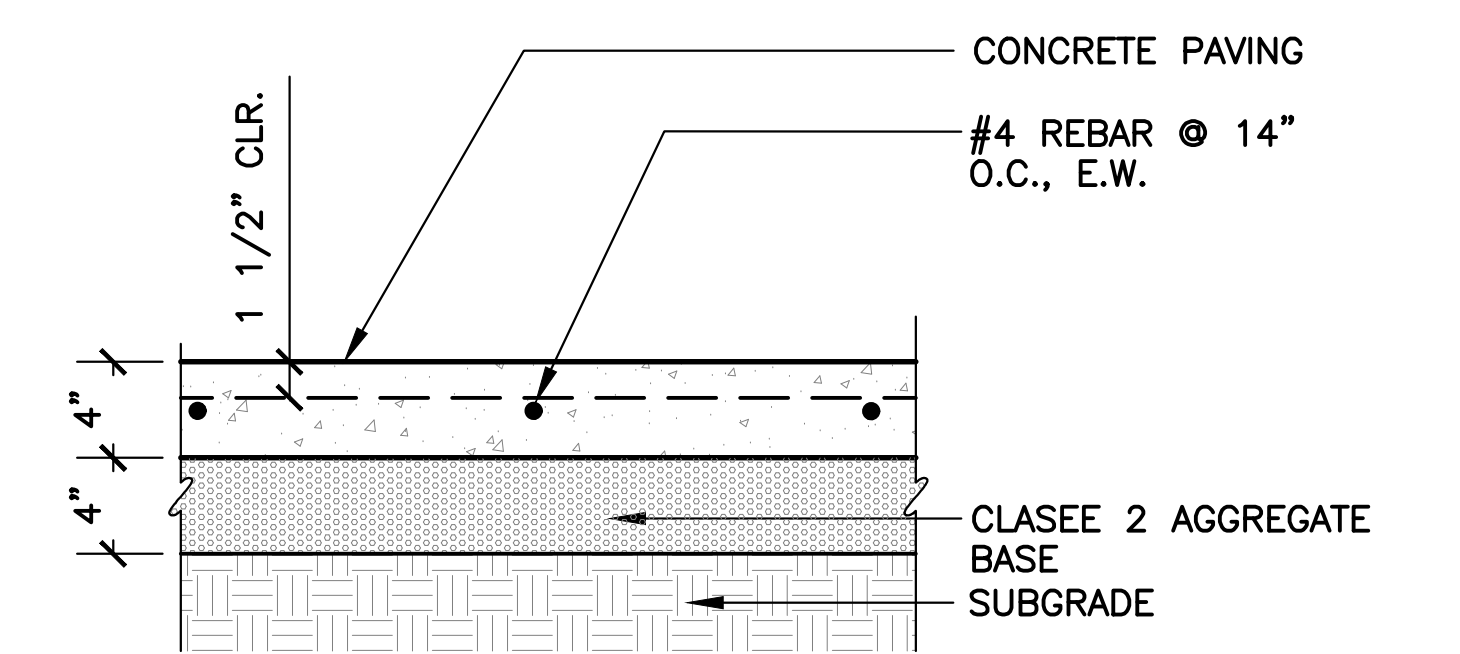
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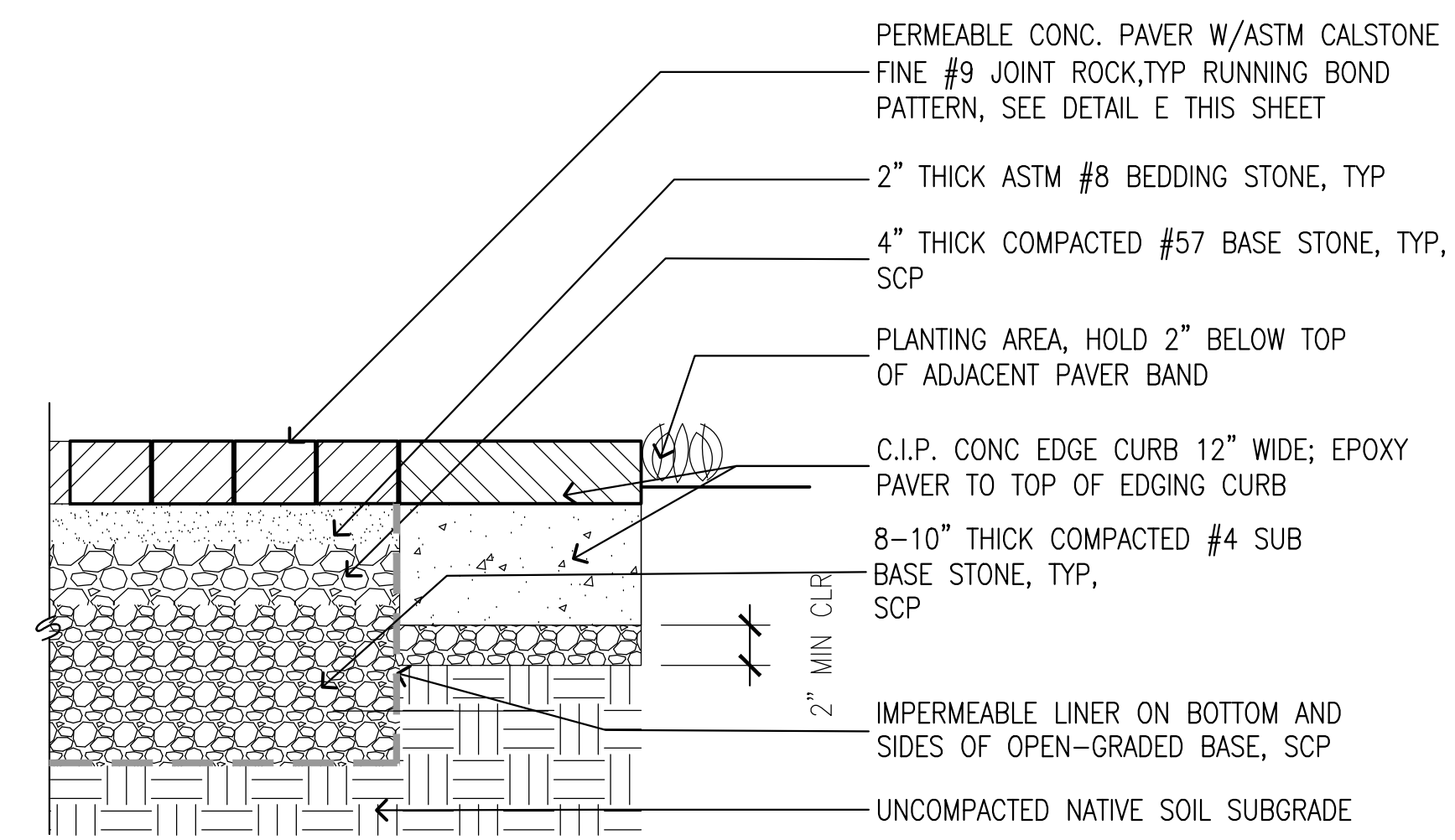
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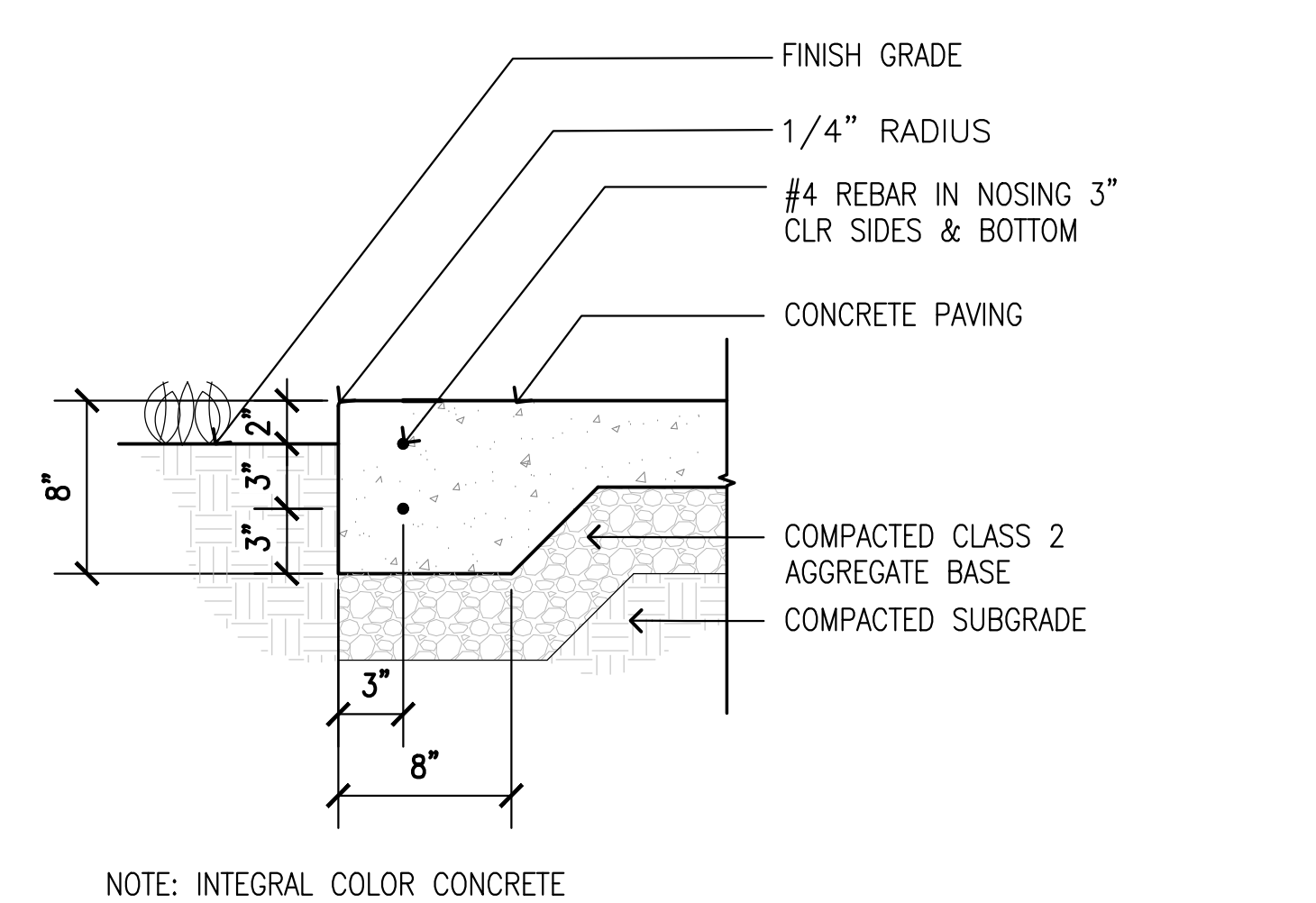
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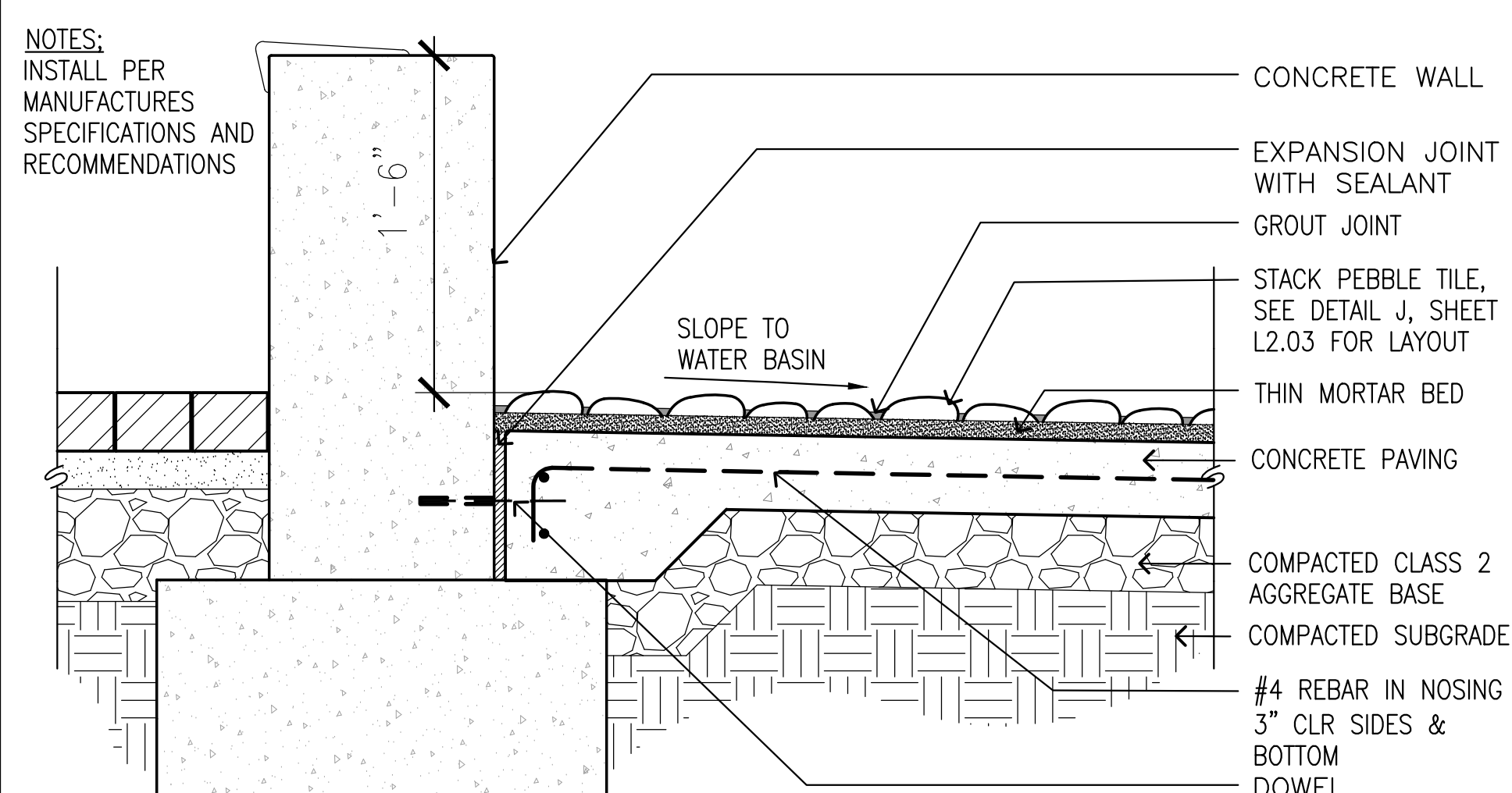
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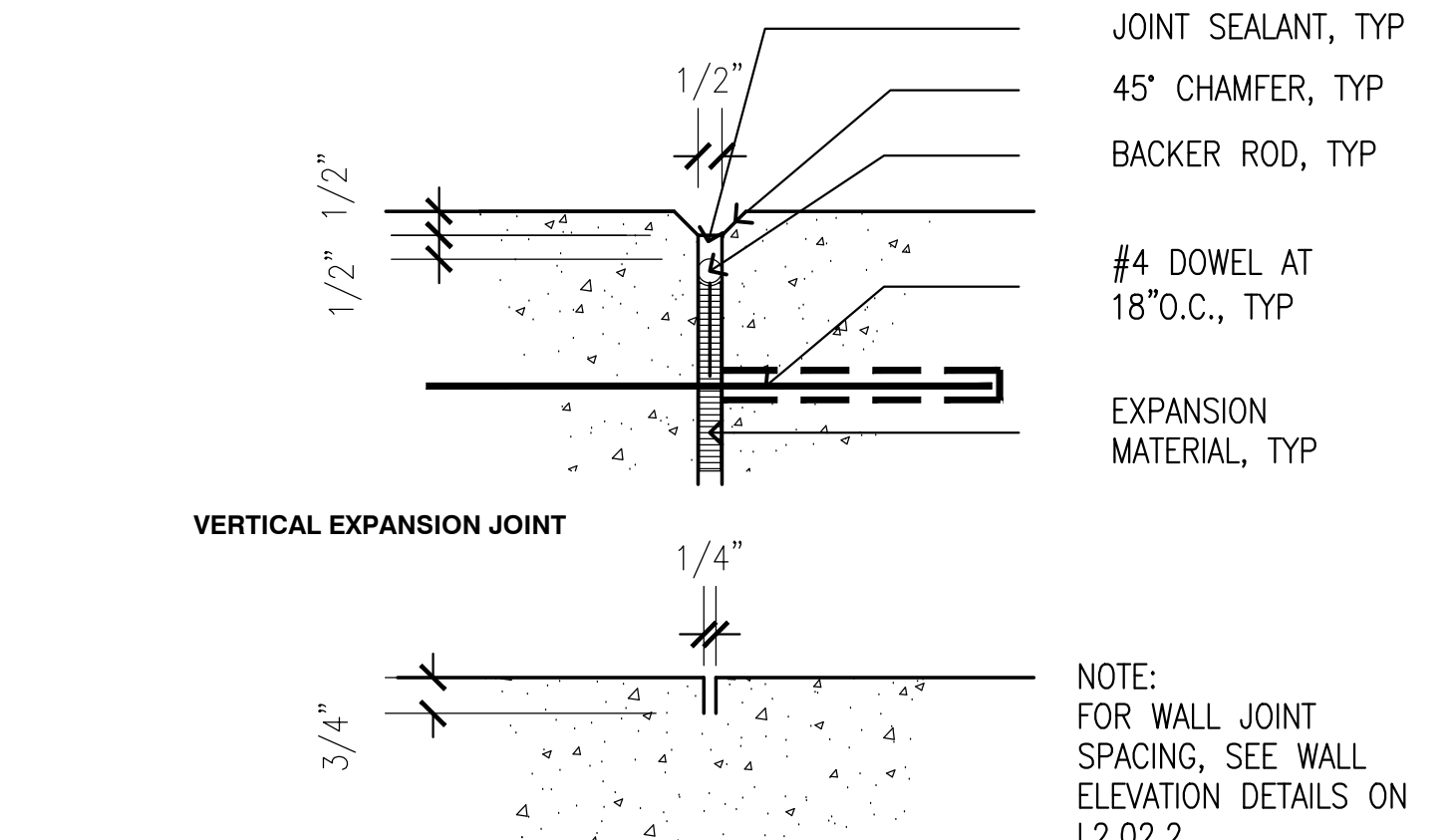
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C CONCRETE THICKENED EDGE
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G STACK PEBBLE TILE PAVING
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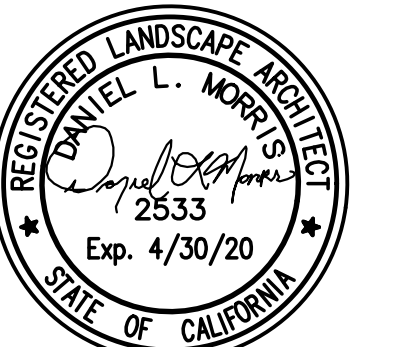
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PROJECT TITLE

**CONTRA COSTA
CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION &
RENOVATION**

1690 Watermill Rd.
San Ramon, CA 94582

RECORD SET:

THESE DRAWINGS HAVE BEEN PREPARED FROM ADDENDUMS, CCD'S, ASIS AND SELECT RFI'S OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM. ONLY A SELECT FEW AS-BUILTS WERE SUBMITTED.

ISSUE TITLE

INCREMENT 2

ISSUE DATE: 5/30/2019
NOLL & TAM JOB NUMBER: 21630

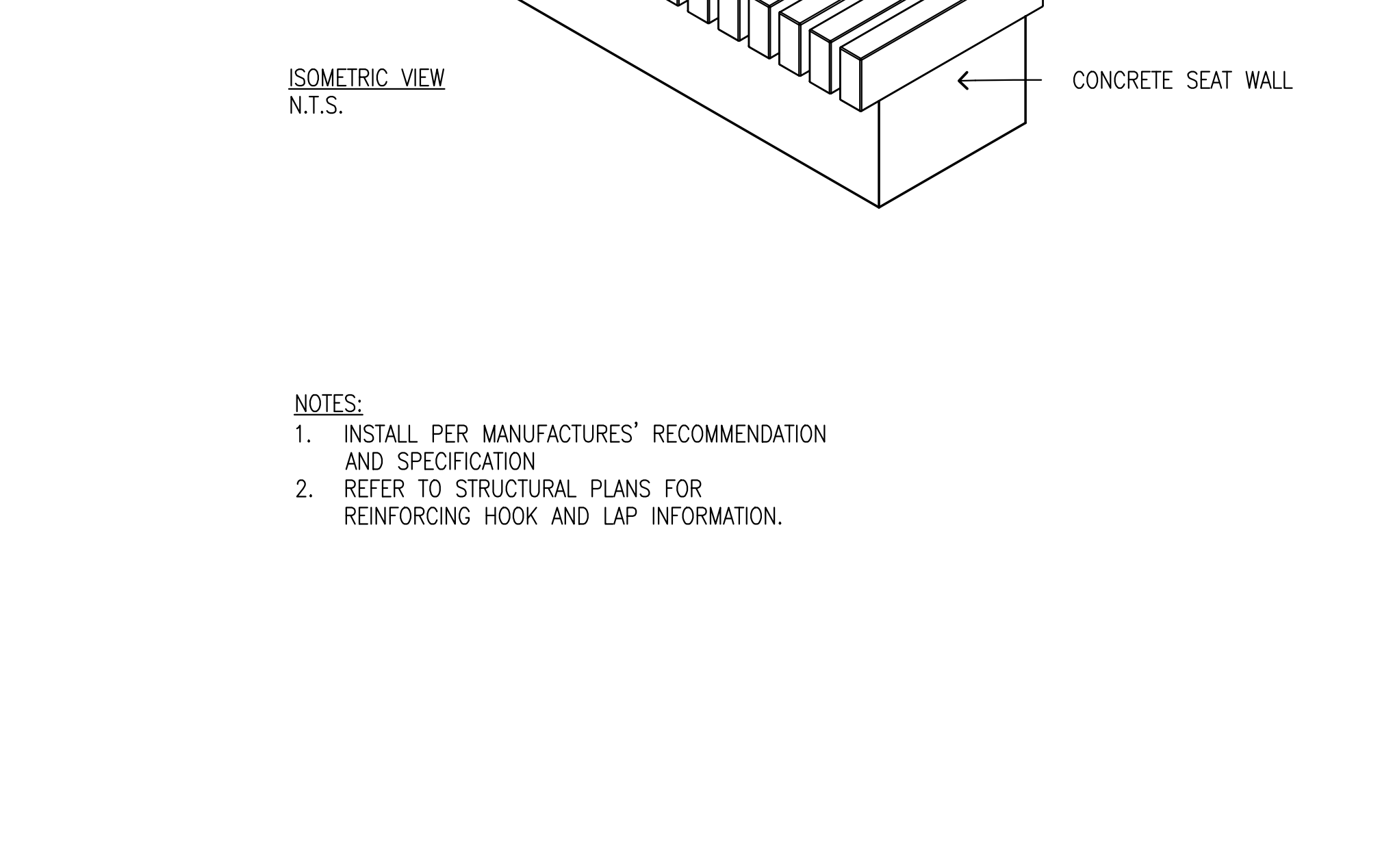
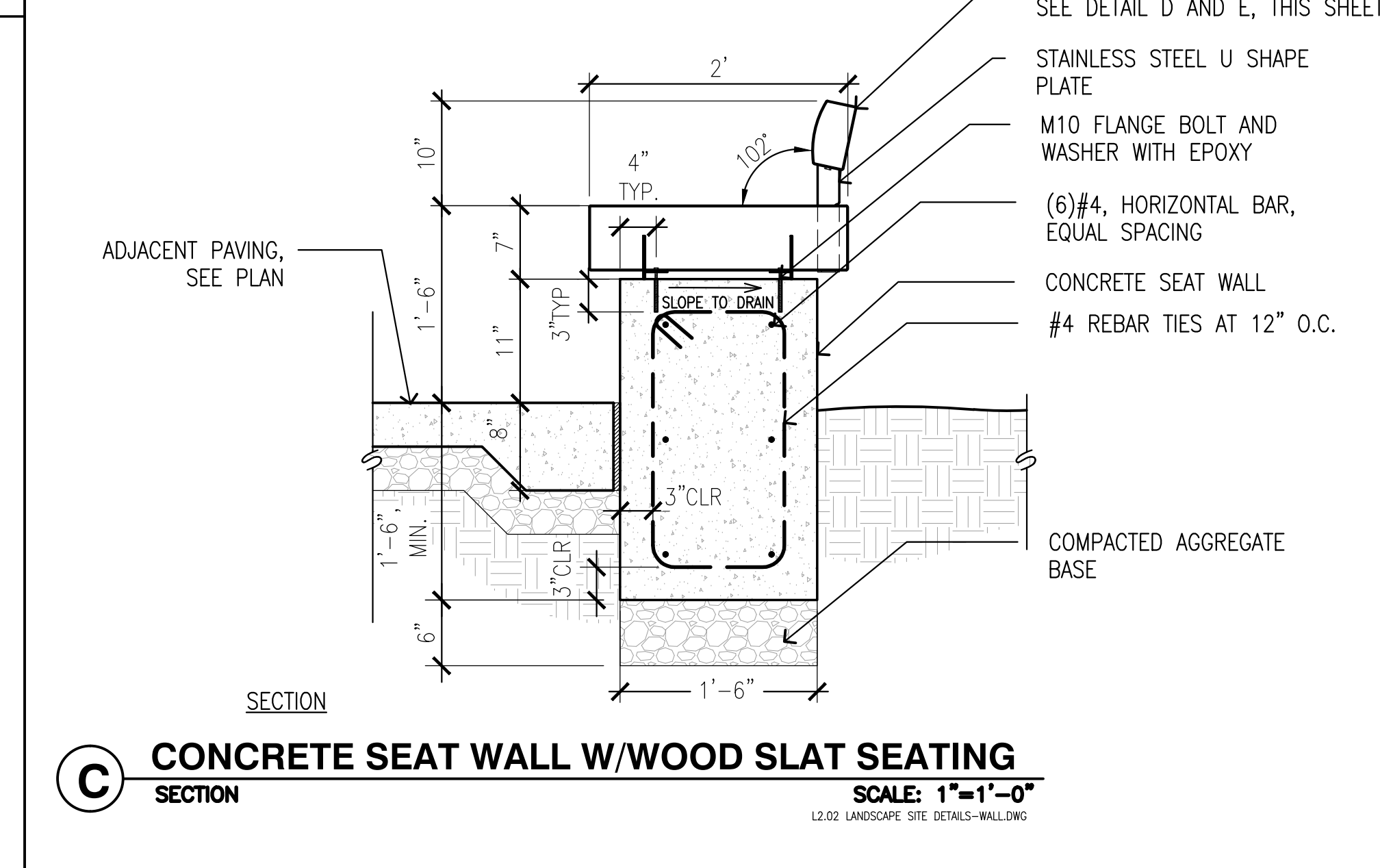
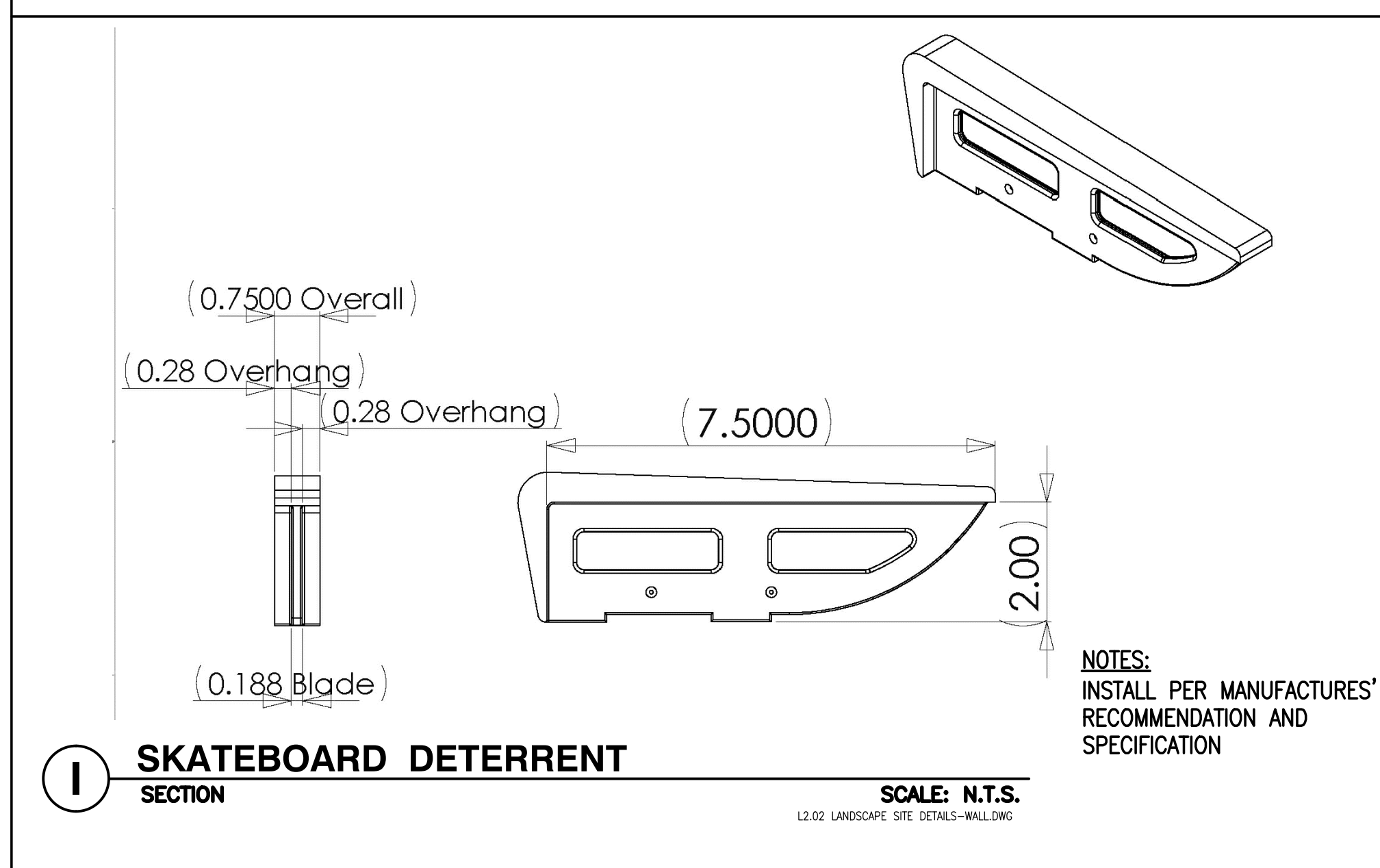
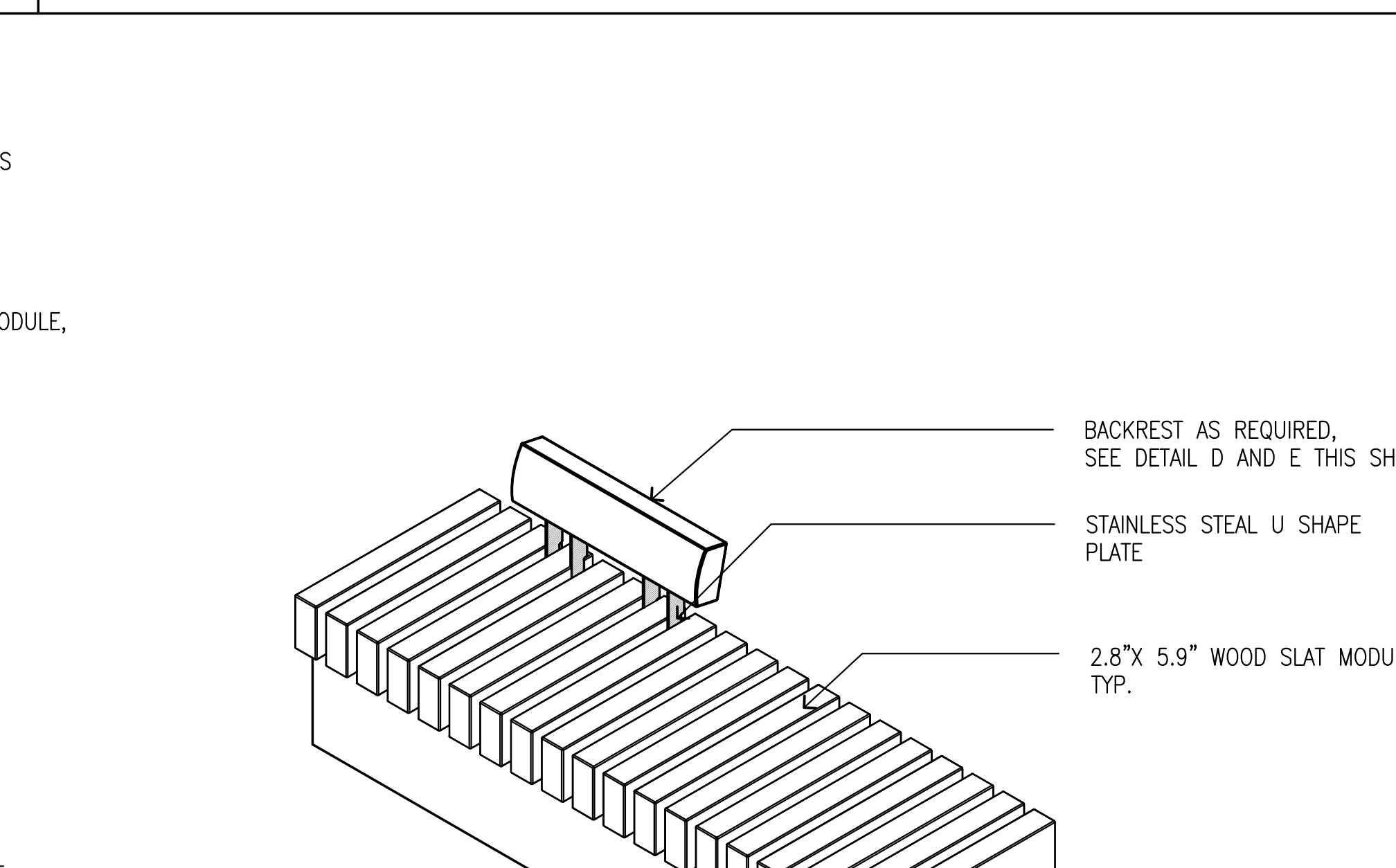
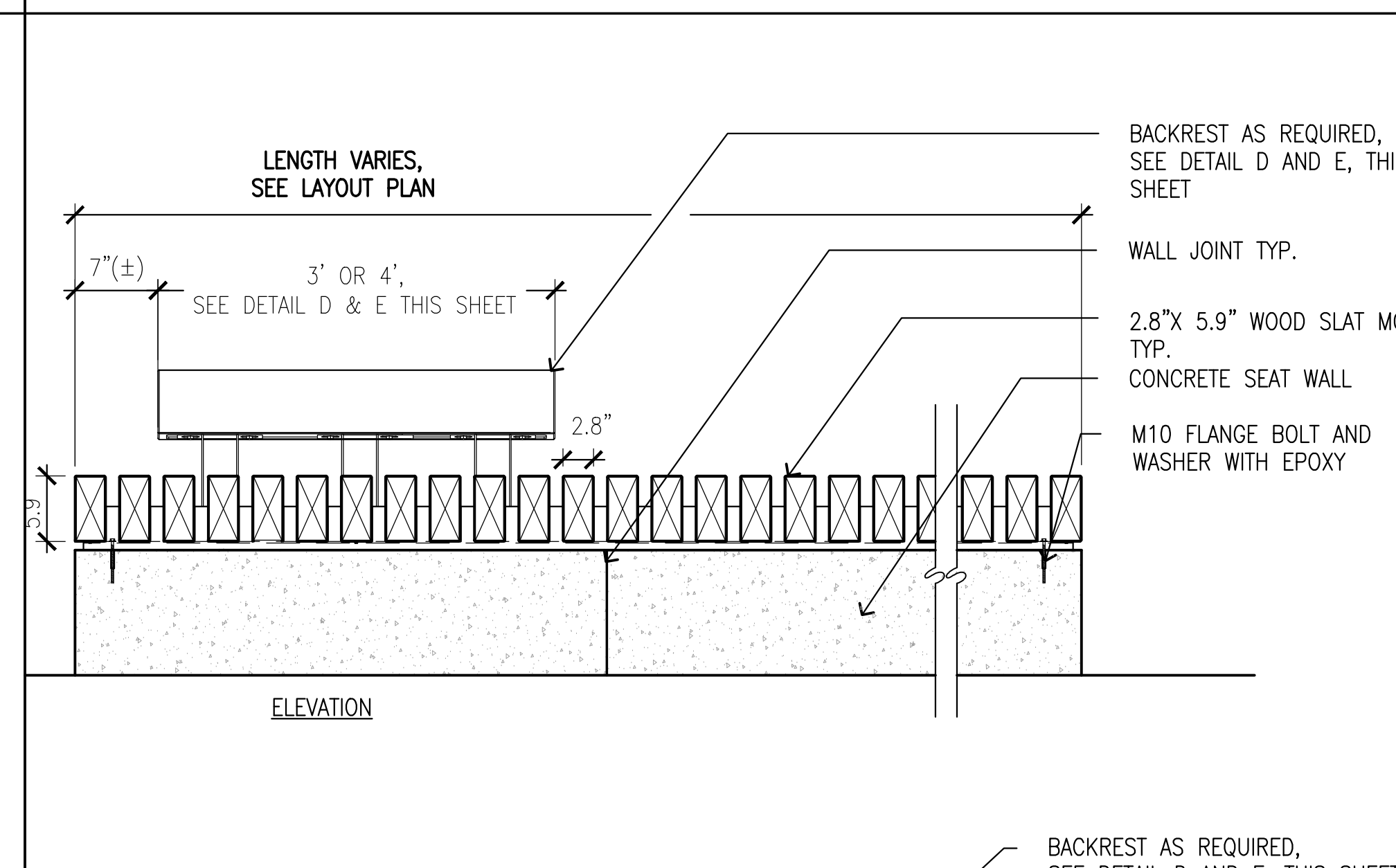
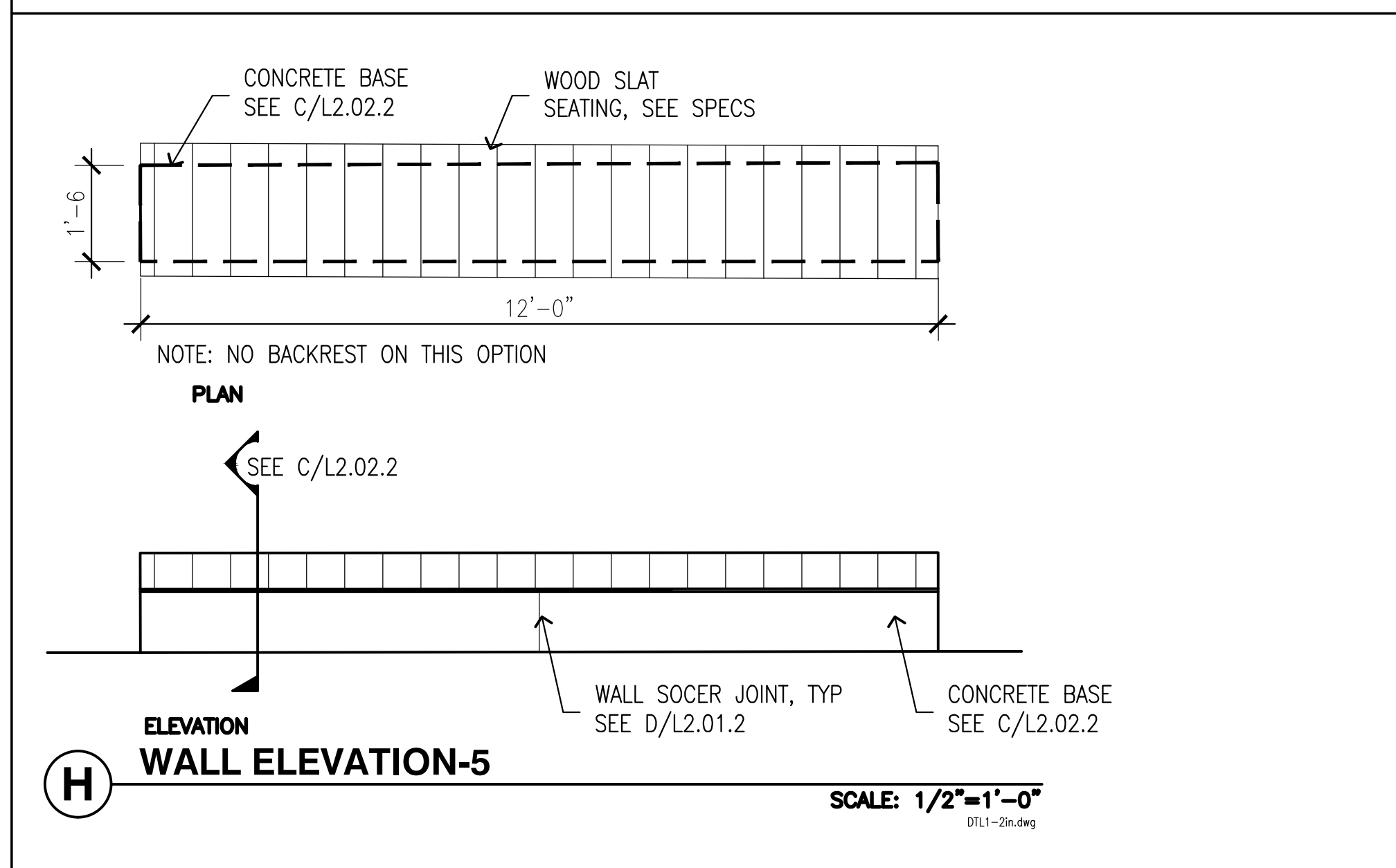
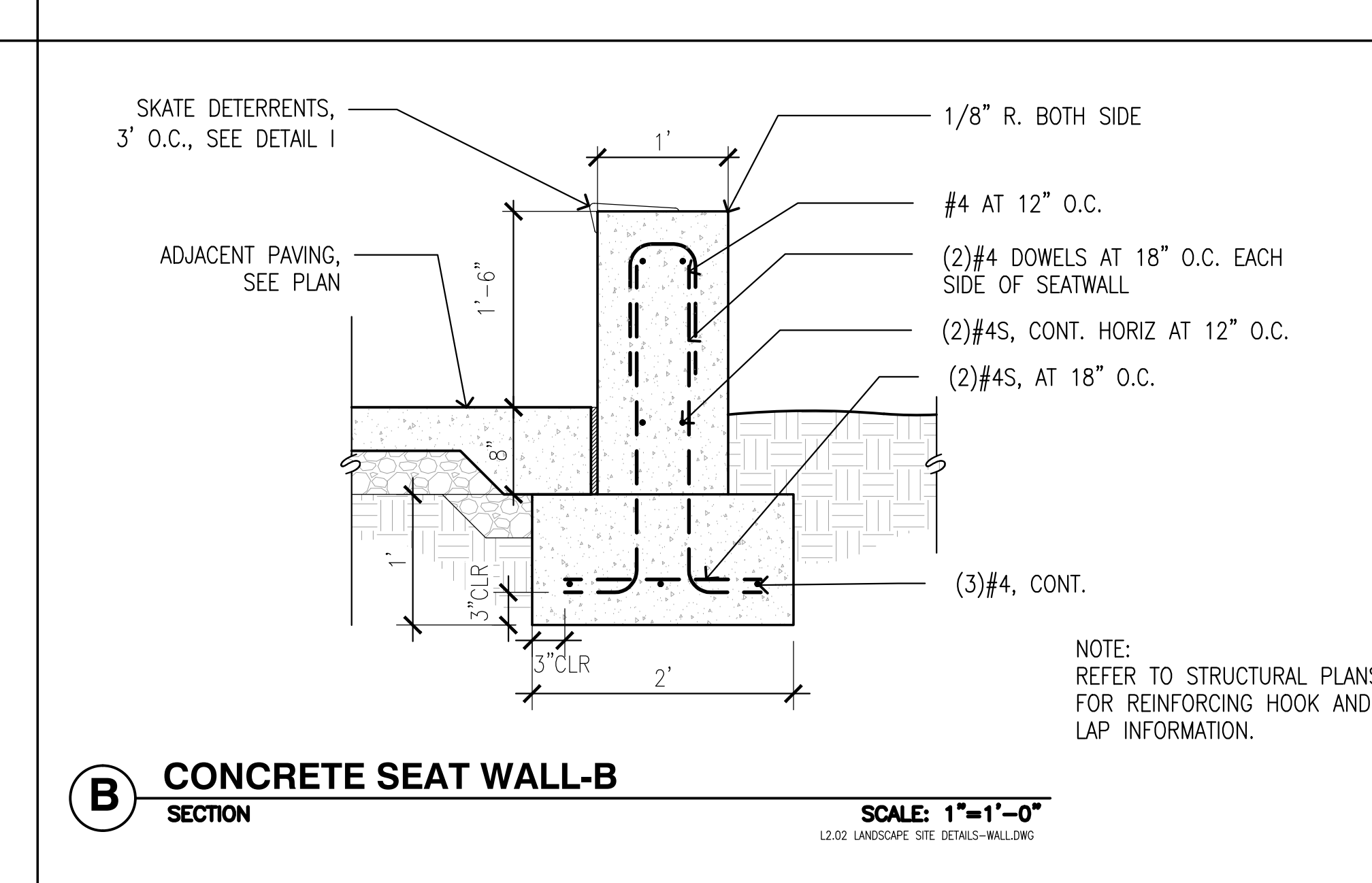
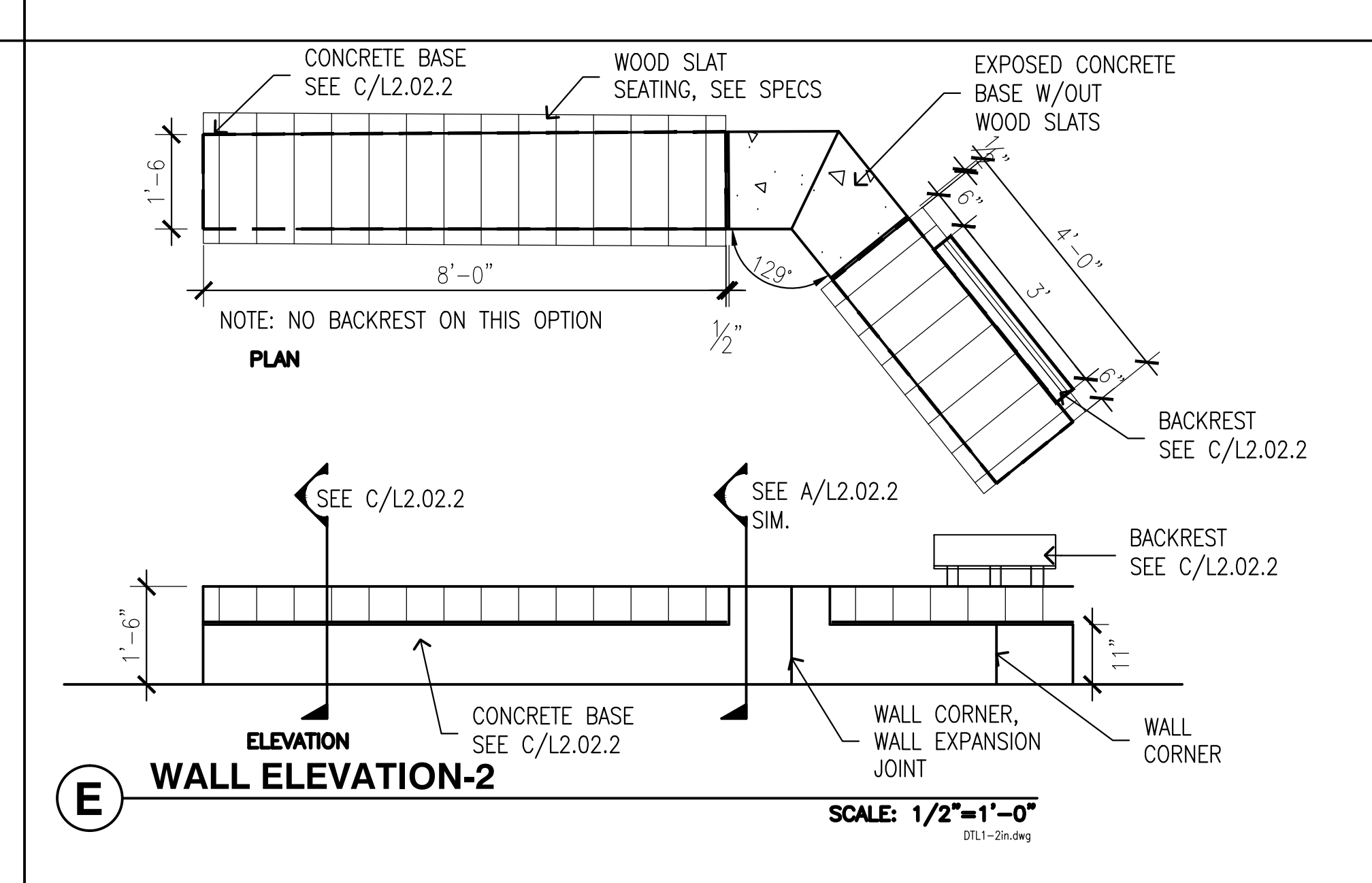
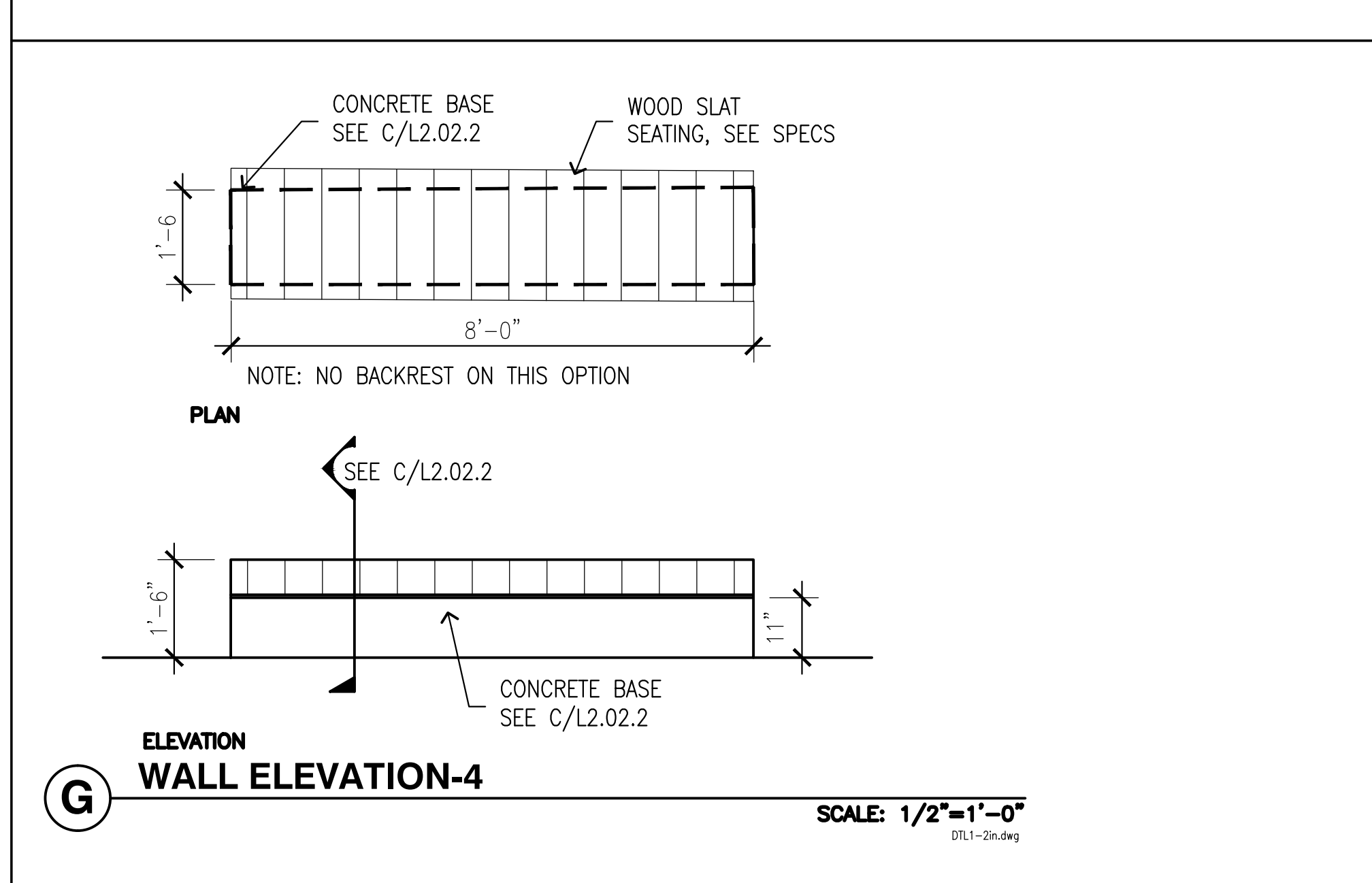
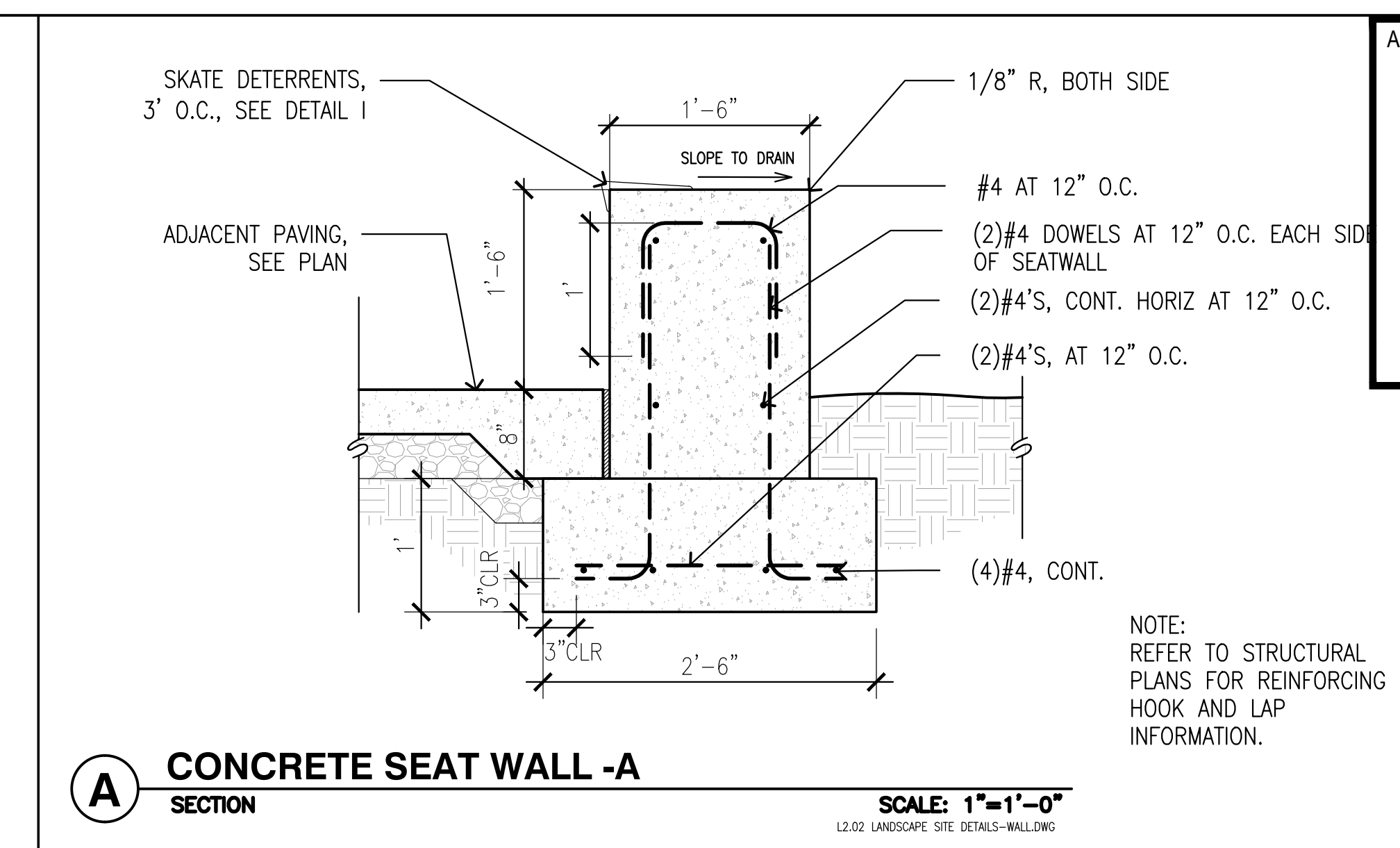
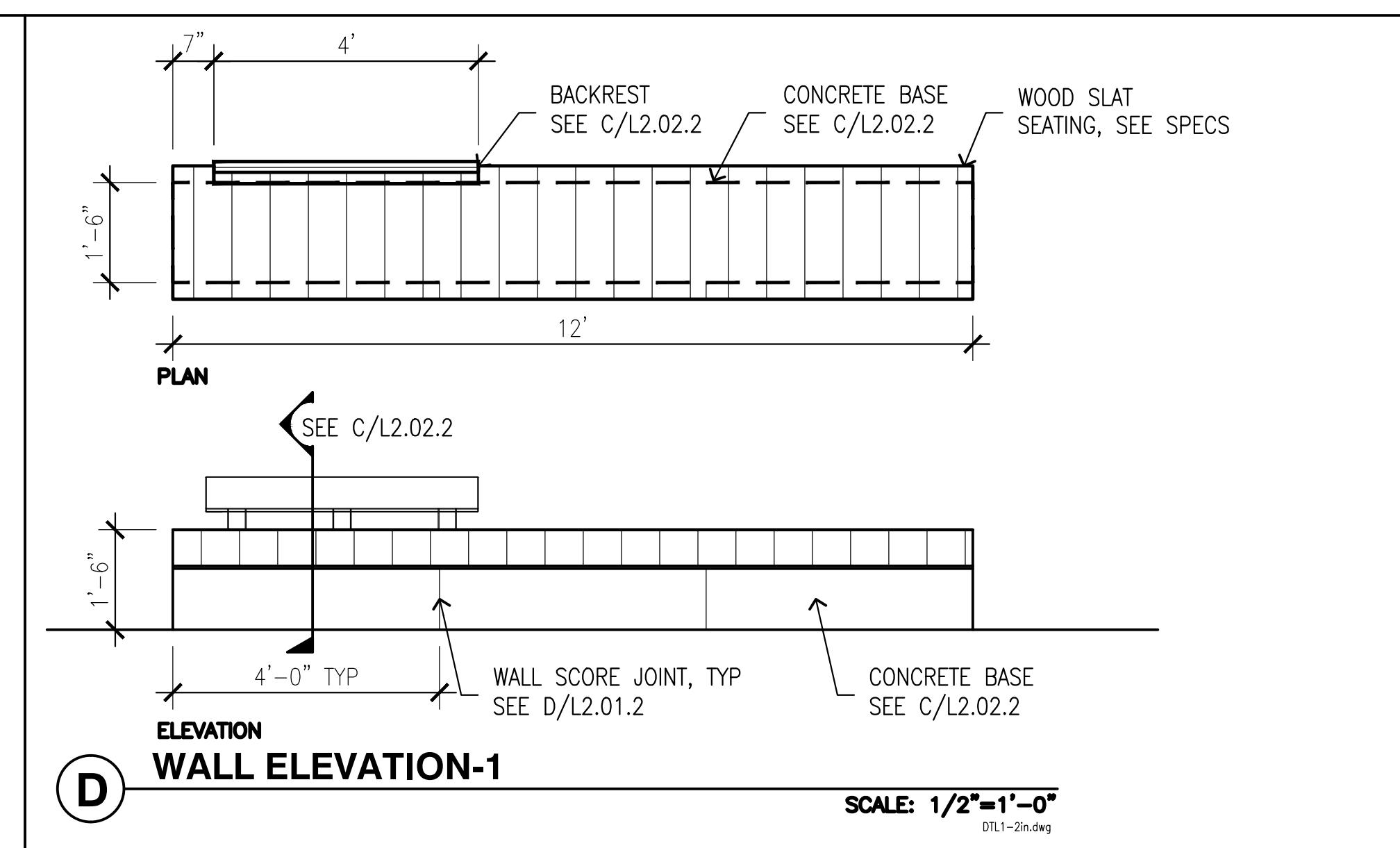
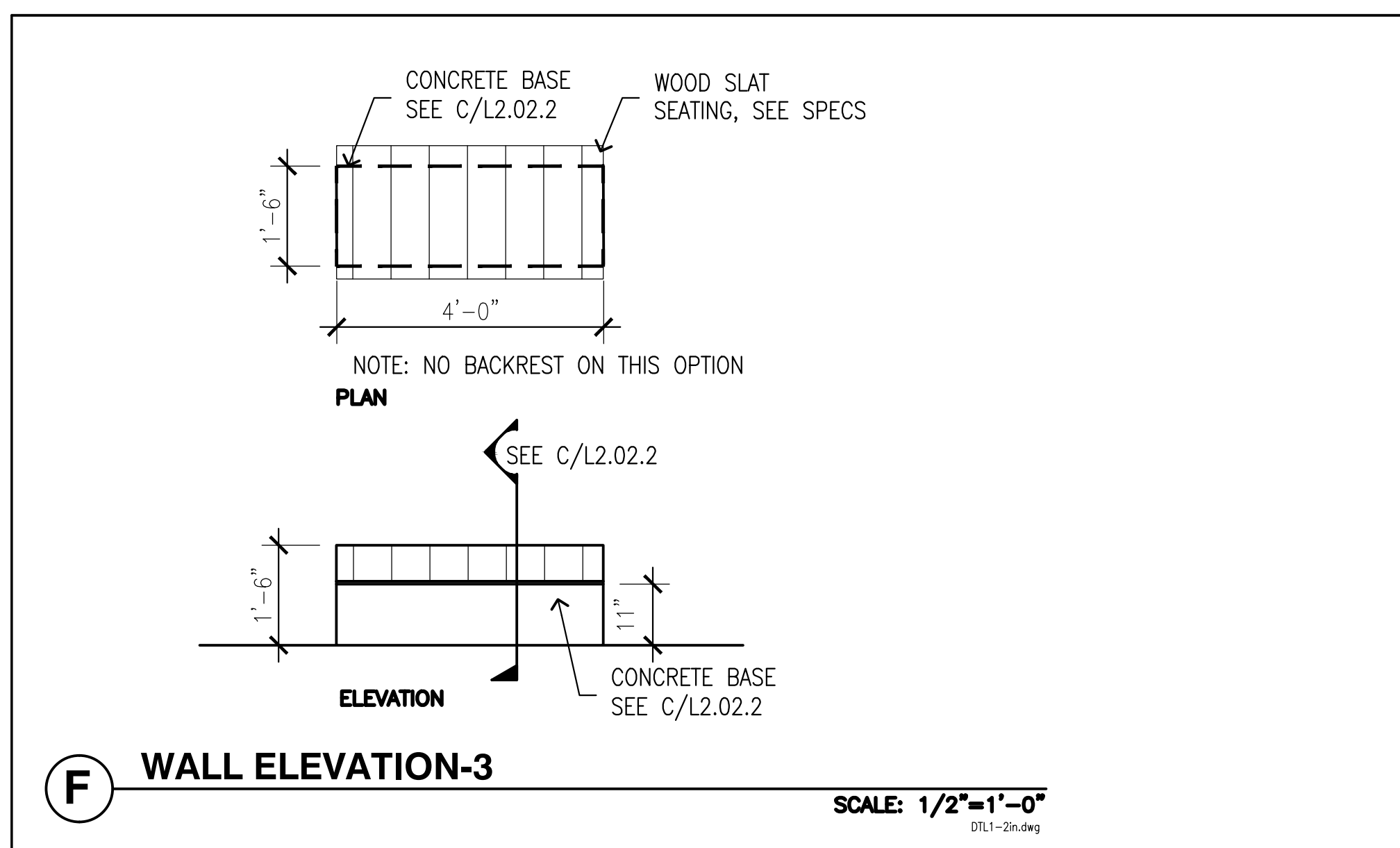
| REVISIONS | DATE | DESCRIPTION |
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SHEET TITLE

**LANDSCAPE SITE
DETAILS-
PAVING & WALLS**

SHEET NUMBER

L2.01.2



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PROJECT TITLE

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CCD
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ISSUE TITLE

INCREMENT 2

ISSUE DATE: 5/30/2019
NOLL & TAM JOB NUMBER: 21630

| REVISIONS | DATE | DESCRIPTION |
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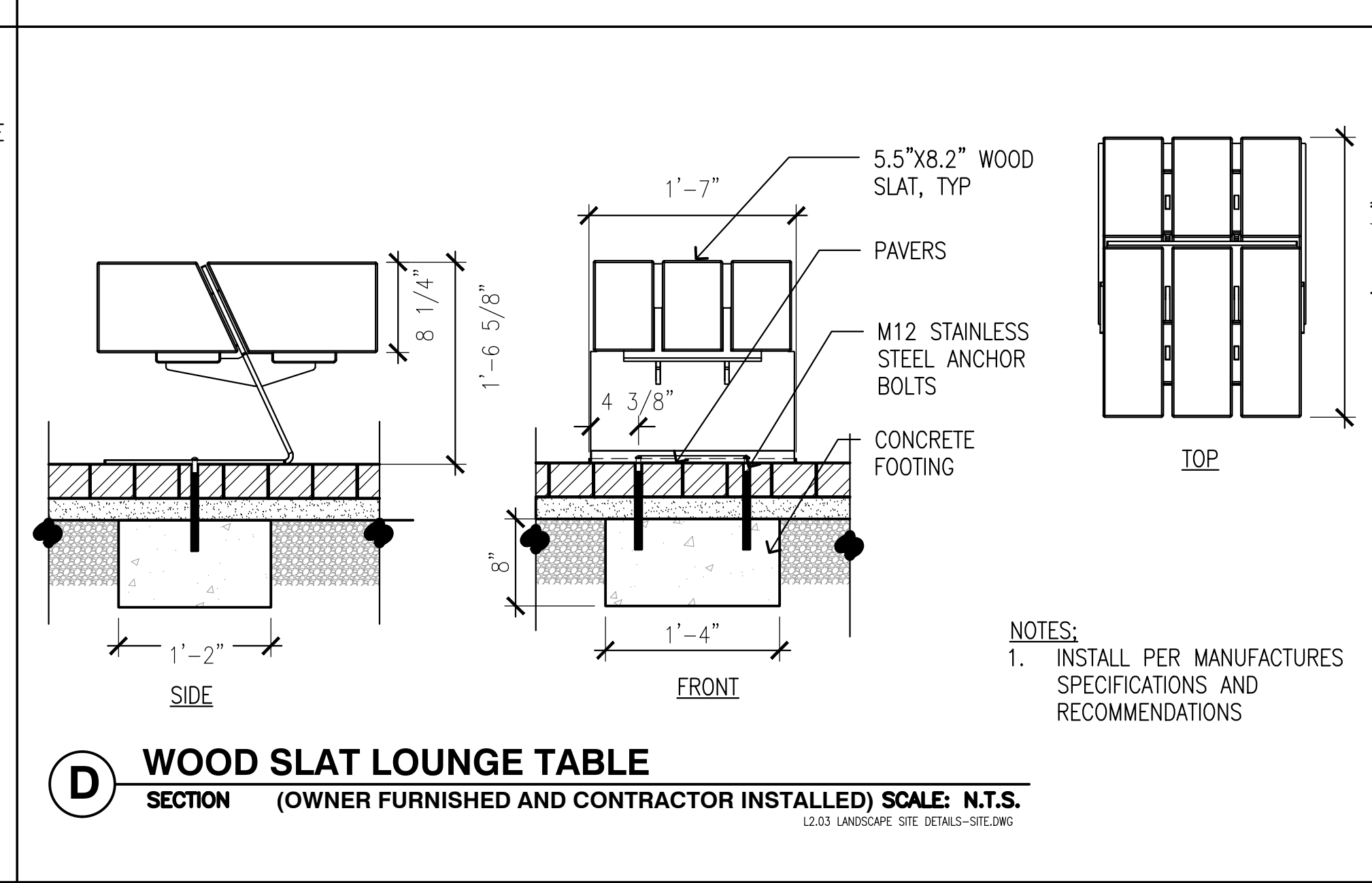
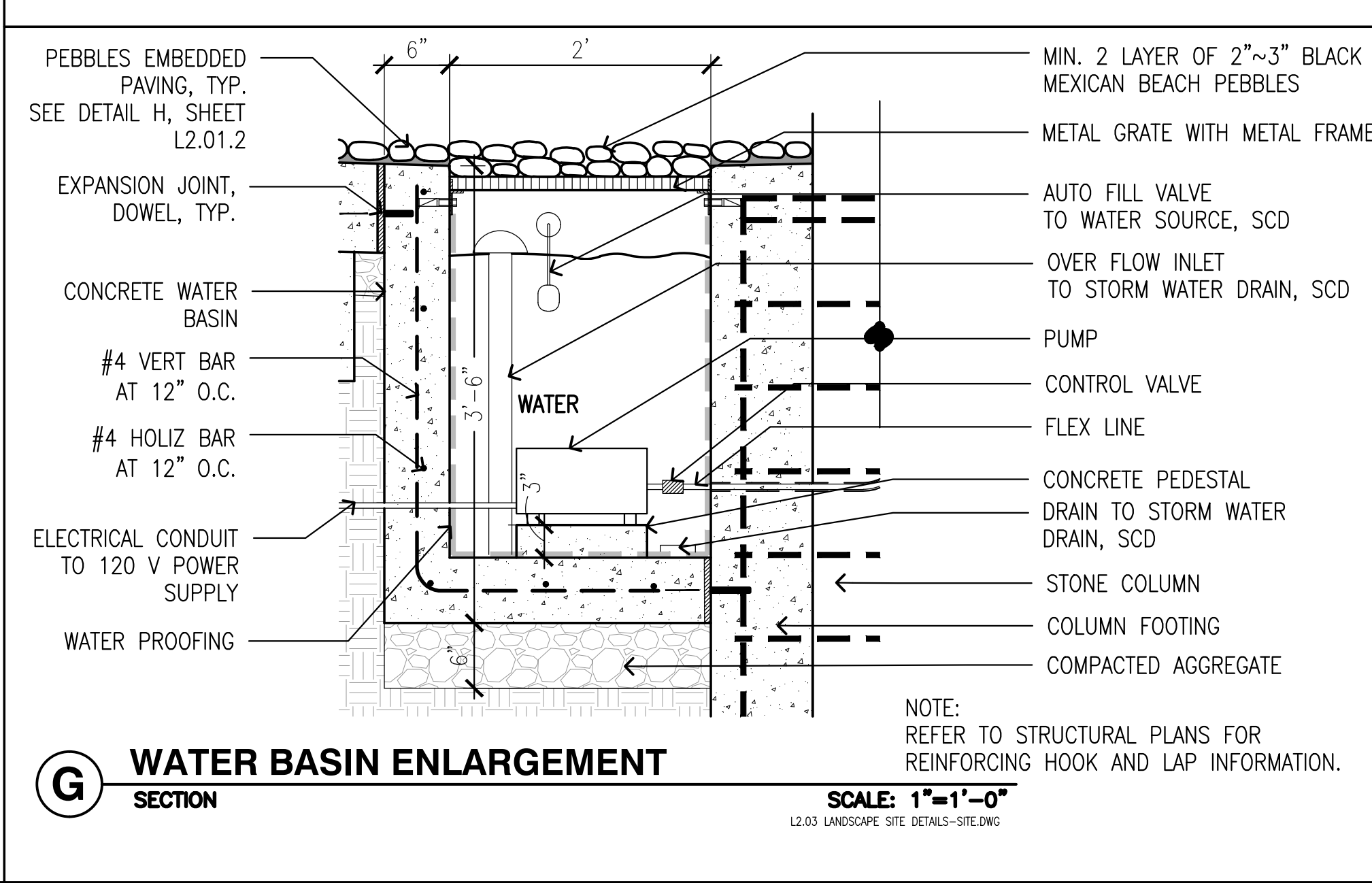
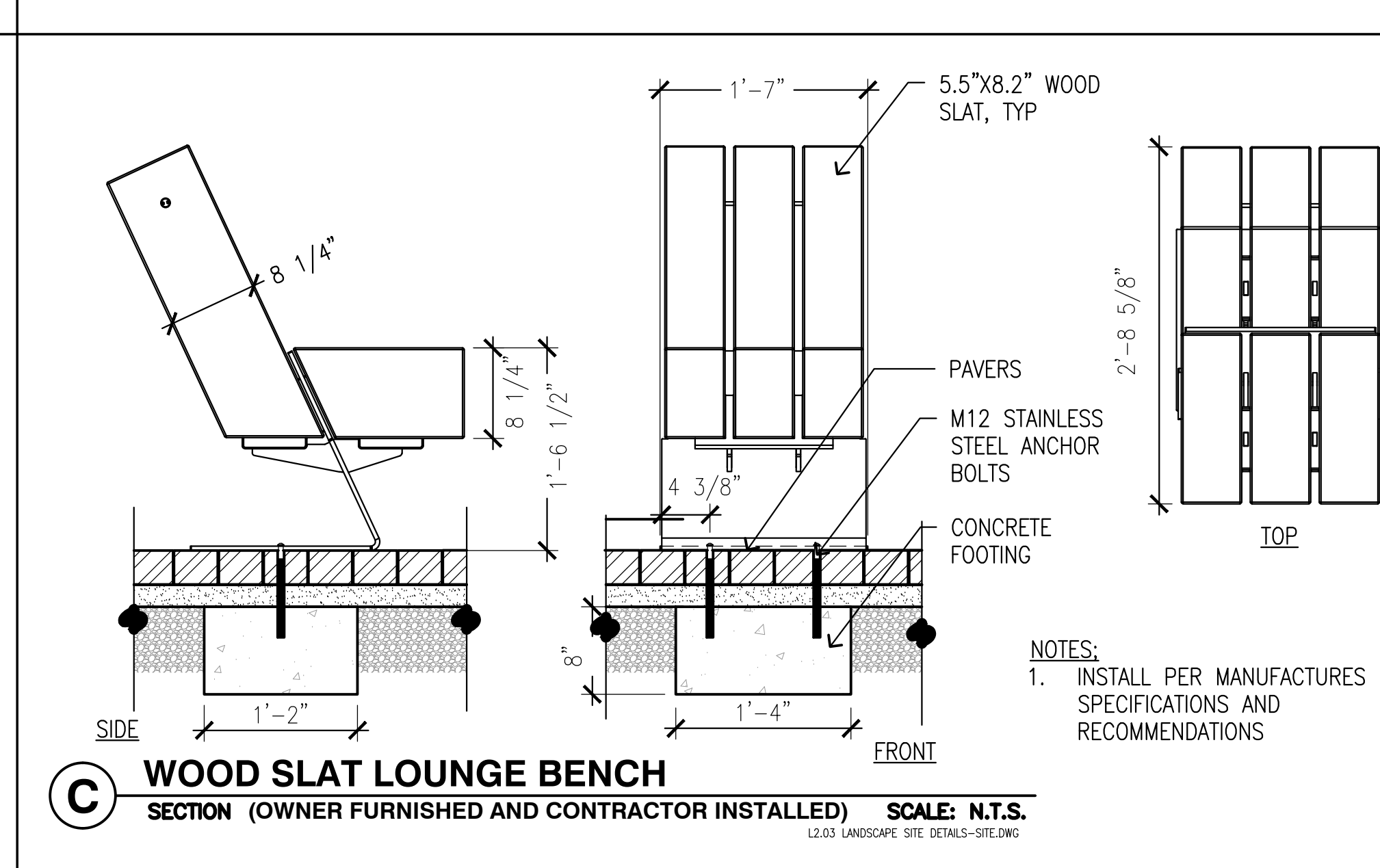
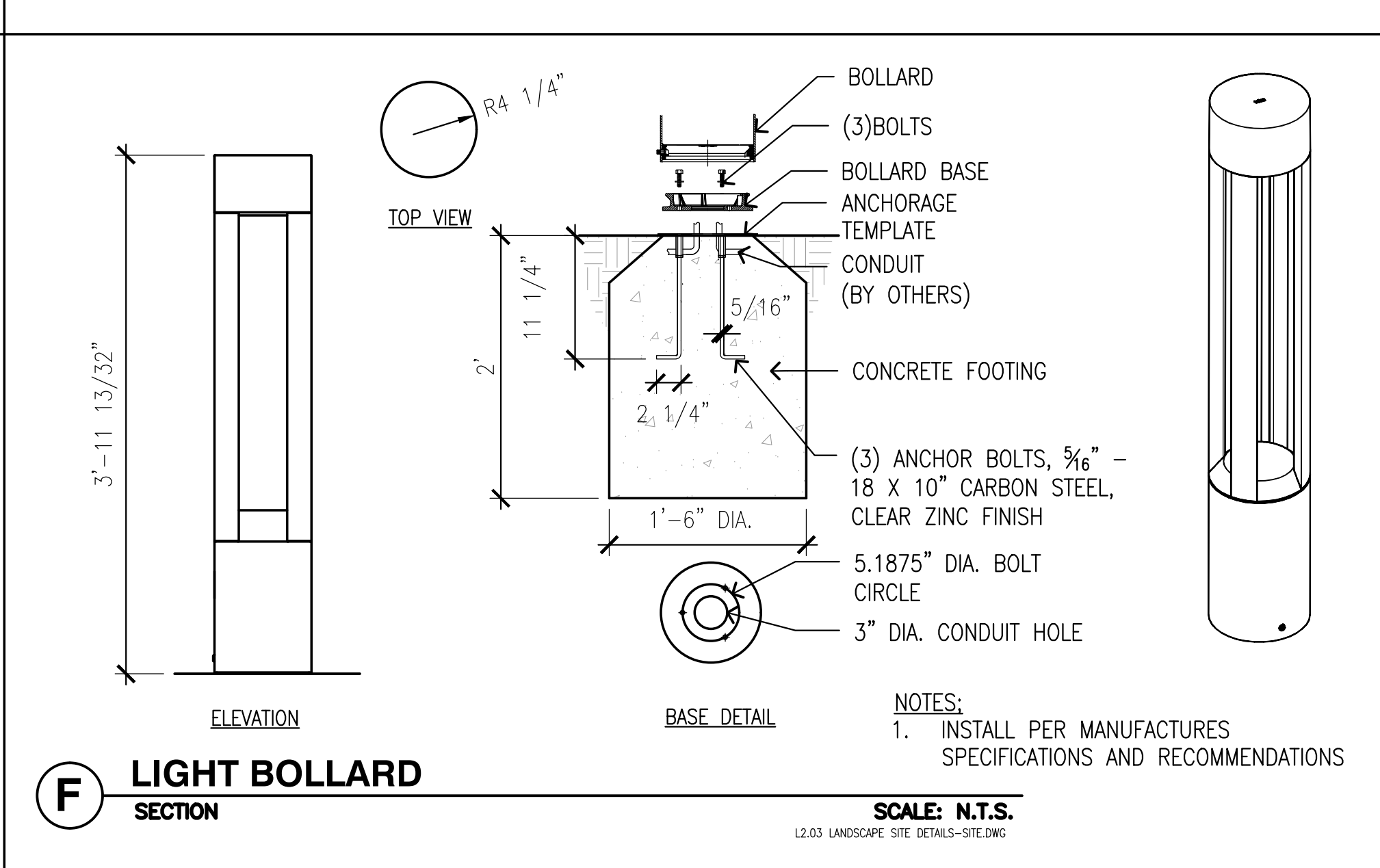
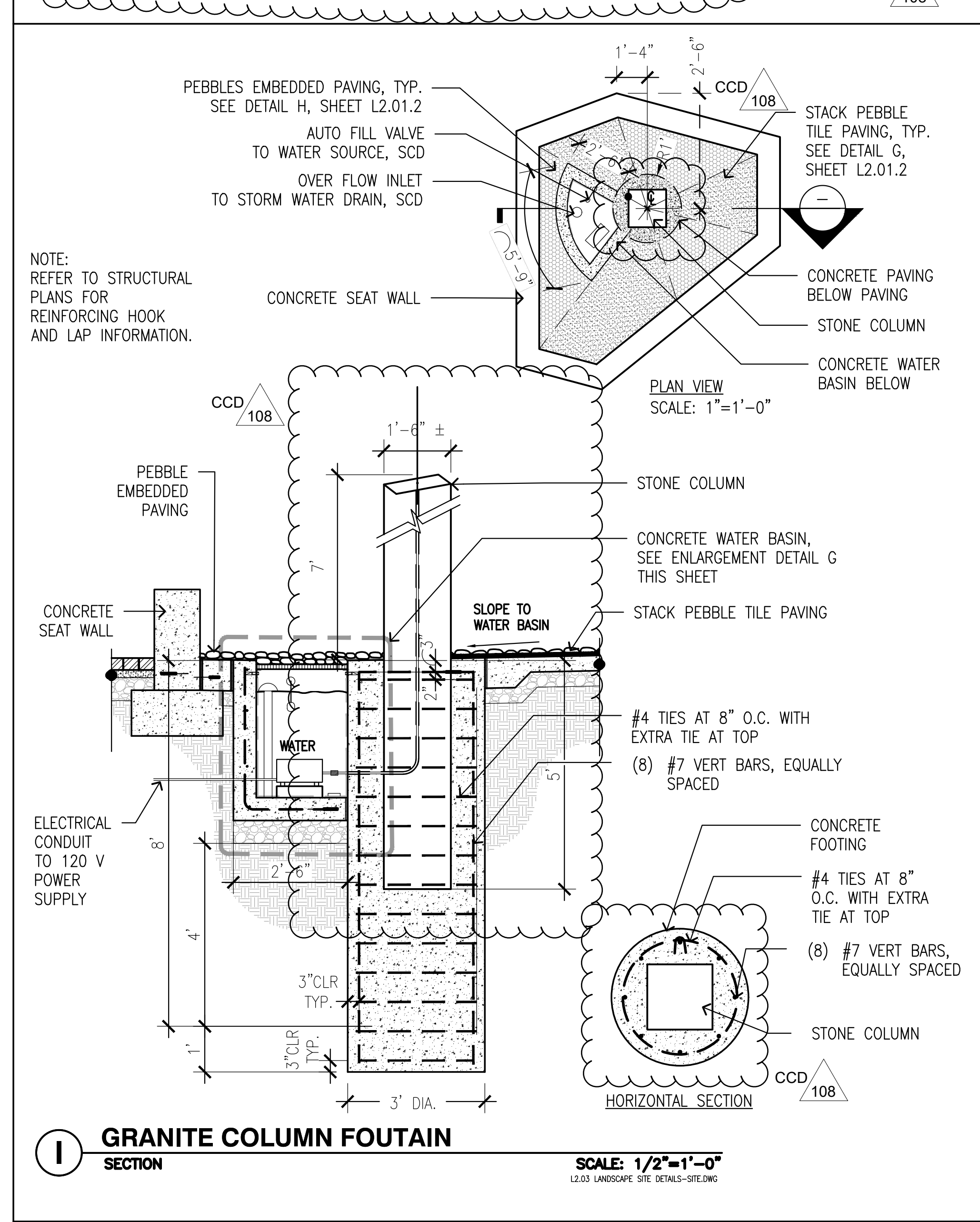
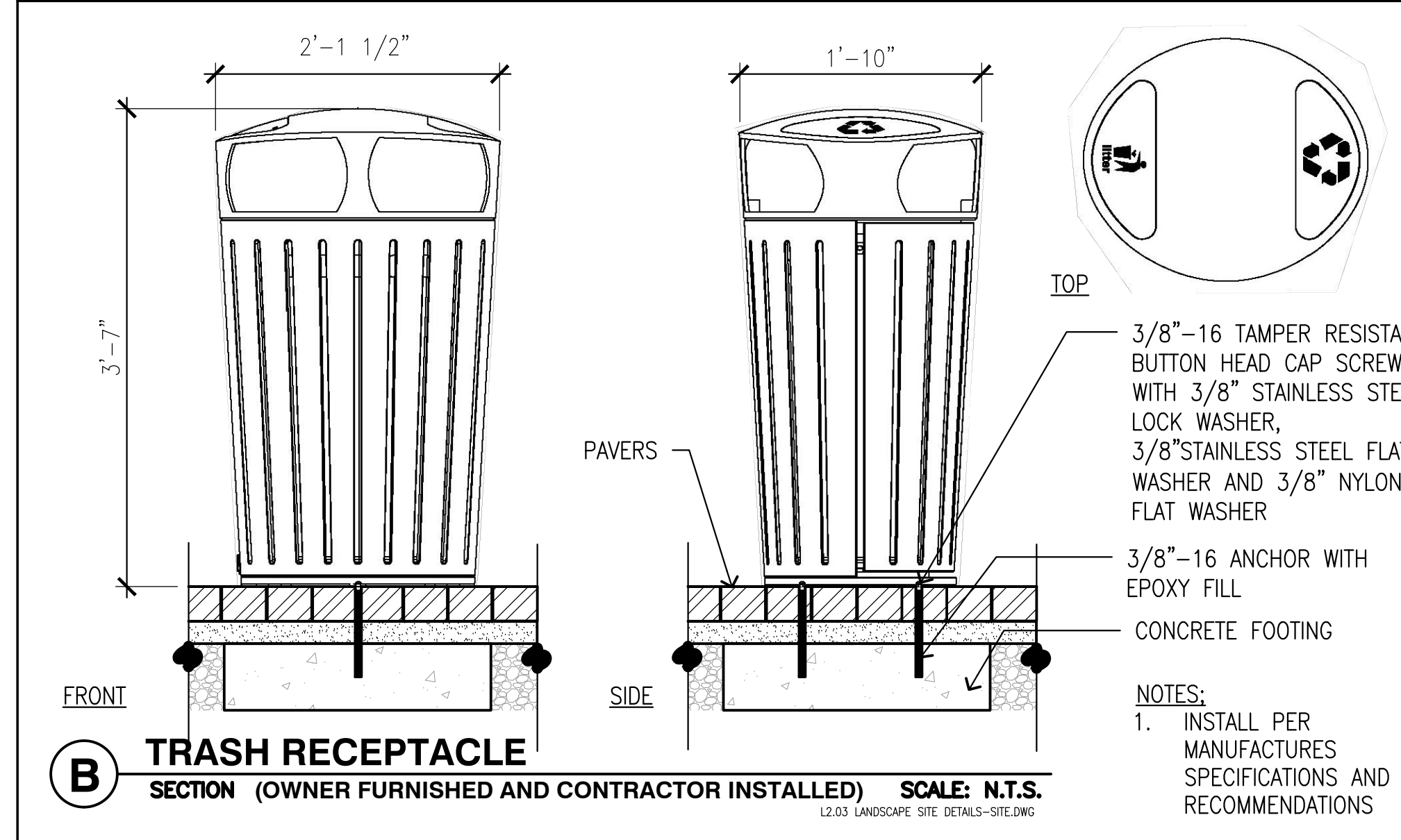
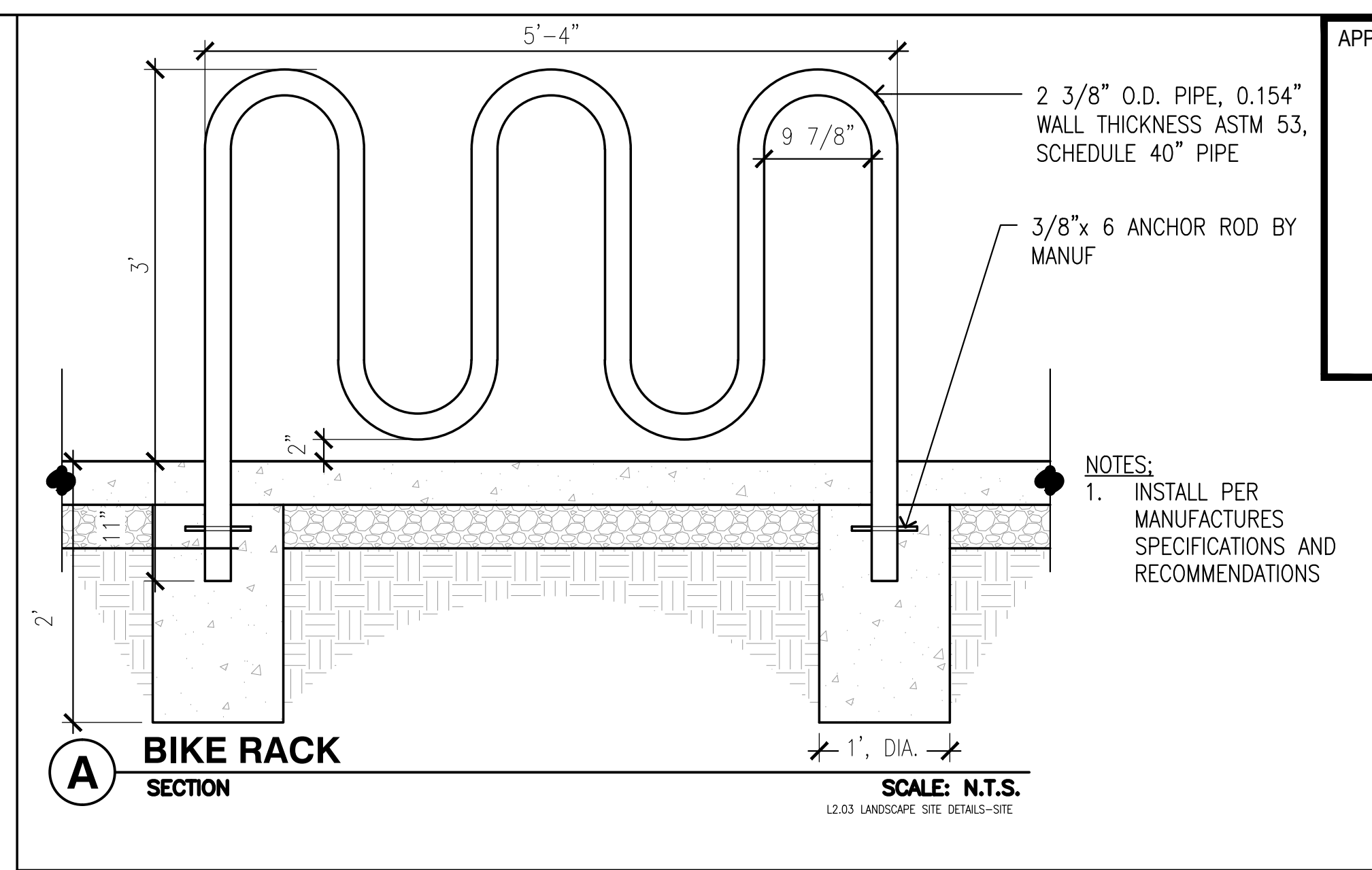
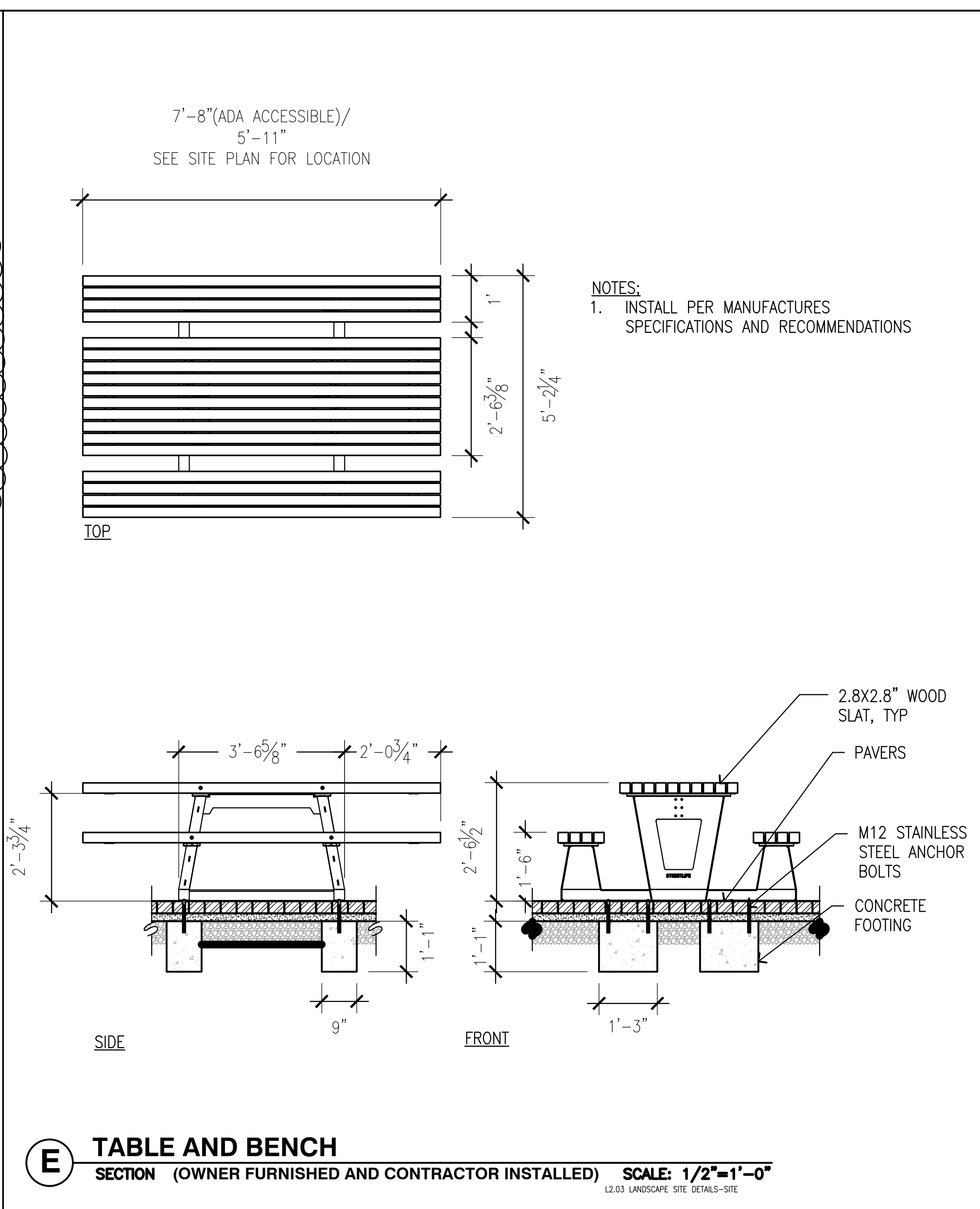
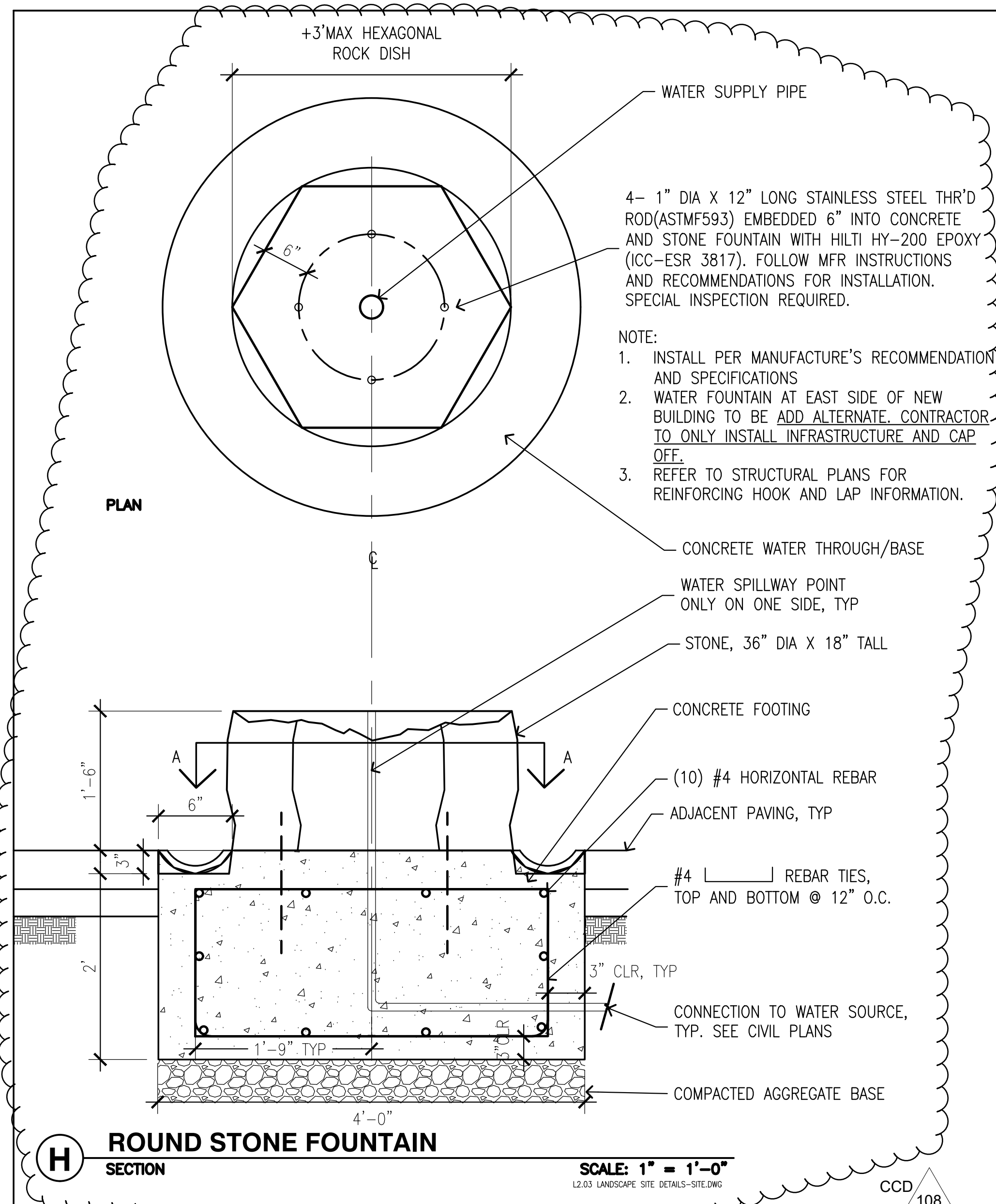
SHEET TITLE

**LANDSCAPE SITE
DETAILS-
WALL**

SHEET NUMBER

L2.02.2

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PROJECT TITLE

CONTRA COSTA CCD D-4002
DVC SAN RAMON CAMPUS EXPANSION & RENOVATION

1690 Watermill Rd.
San Ramon, CA 94582

RECORD SET:

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ISSUE TITLE

INCREMENT 2

| ISSUE DATE | DESCRIPTION |
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| 5/30/2019 | |
| 12/09/2020 | CCD 108 |

SHEET TITLE

LANDSCAPE SITE DETAILS- SITE FURNISHING

SHEET NUMBER

L2.03.2

These drawings have been prepared based on information submitted, in part, by others. Landscape Architect has provided a review consistent with its legal standard of care.

TYPICAL CONSTRUCTION NOTES FOR ON-SITE RECYCLED WATER IRRIGATION PLANS

GENERAL: THE FOLLOWING NOTES AND SPECIFICATIONS ARE INTENDED TO ASSIST IRRIGATION CONTRACTORS IN THE INSTALLATION OF AN IRRIGATION SYSTEM THAT COMPLIES WITH THE DUBLIN SAN RAMON SERVICES DISTRICT (DISTRICT) STANDARD PROCEDURES, SPECIFICATIONS AND DRAWINGS FOR DESIGN AND INSTALLATION OF POTABLE WATER, RECYCLED WATER AND WASTEWATER UTILITIES (STANDARDS) SECTION IV, RECYCLED WATER SYSTEM REQUIREMENTS AND DISTRICT RECYCLED WATER USE GUIDELINES AND REQUIREMENTS, THE NOTES INCLUDED BELOW ARE GENERALLY THE MOST SIGNIFICANT REQUIREMENTS. HOWEVER, IT SHOULD BE NOTED THAT NOT ALL OF THE DISTRICT STANDARDS ARE IDENTIFIED BELOW. WHERE DIFFERENCES BETWEEN DISTRICT STANDARDS SECTION IV AND THE FOLLOWING NOTES OCCUR, DISTRICT STANDARDS SHALL APPLY. THE CONTRACTOR SHALL BECOME FAMILIAR WITH AND COMPLY WITH ALL OF THE REQUIREMENTS OF THE DISTRICT STANDARDS SECTION IV AND RECYCLED WATER USE GUIDELINES AND REQUIREMENTS.

- NO WORK SHALL START UNTIL THE CONTRACTOR HAS COMPLETE FAMILIARIZATION WITH THE DISTRICT STANDARDS AND ISSUANCE OF THE REQUIRED PERMITS.
- NOTIFY THE DISTRICT'S AUTHORIZED REPRESENTATIVE NO LESS THAN 2 WORKING DAYS PRIOR TO THE START OF WORK FOR INSPECTION SCHEDULE COORDINATION.
- THE IRRIGATION SYSTEM DESIGN FOR THIS SITE IS BASED ON A STATIC PRESSURE AT THE RECYCLED WATER METER OF 96 PSI. THE CONTRACTOR SHALL VERIFY THE AVAILABLE PRESSURE AT THE POINT OF CONNECTION PRIOR TO THE START OF CONSTRUCTION. ANY DEVIATION FROM THE DESIGN PRESSURE SHOWN ABOVE SHALL BE REPORTED TO THE IRRIGATION SYSTEM DESIGNER OR PROPERTY OWNER IMMEDIATELY.
- ALL PIPING AND IRRIGATION SYSTEMS SHALL BE DESIGNED AND CONSTRUCTED SO THAT SPRAY OR RUNOFF SHALL NOT ENTER A DWELLING, FOOD HANDLING FACILITY, OR EATING AREA AND SHALL NOT CONTACT ANY DRINKING WATER FOUNTAIN. IRRIGATION WITH RECYCLED WATER SHALL BE ACCOMPLISHED AT A TIME AND MANNER THAT MINIMIZES THE POSSIBILITY OF PUBLIC CONTACT. THE CONTRACTOR SHALL CONDUCT PRESSURE AND COVERAGE TESTS WHEN WIND CONDITIONS ARE SUCH THAT WATER WILL NOT BE WINDBLOWN. RECYCLED WATER OVERSPRAY ON TO AREAS NOT CONTROLLED BY THE OWNER IS PROHIBITED.
- THE CONTRACTOR SHALL PROPERLY SUPERVISE AND INFORM ALL INDIVIDUALS INVOLVED IN THE INSTALLATION OF THE RECYCLED WATER IRRIGATION SYSTEM THAT RECYCLED WATER IS UNFIT FOR CONSUMPTION OR FOR HYGIENIC USE. A FIRST AID KIT SHALL BE AVAILABLE AT ALL TIMES DURING INSTALLATION AND OPERATION OF IRRIGATION SYSTEM.
- ALL RECYCLED WATER PIPING SHALL USE PURPLE COLORED AND STENCILED PIPE, PURPLE RECYCLED WATER WARNING TAPE CONTINUOUSLY APPLIED TO THE PIPE, OR MARKED PLASTIC ENCASEMENT. ALL MARKING SHALL INCLUDE THE FOLLOWING OR SIMILAR WORDS: "CAUTION: RECYCLED WATER - DO NOT DRINK".
- WARNING TAPE OR PIPE ENCASEMENT INSTALLED SHALL BE AS MANUFACTURED BY T. CHRISTY ENTERPRISES, RENCOR OR EQUAL.
- INSTALL VALVES, METERS AND APPURTENANCES IN PURPLE COLORED VALVE BOXES WITH PURPLE LIDS. THE VALVE BOX LID SHALL HAVE THE FOLLOWING WARNINGS MOLDED OR HOT-STAMPED UPON IT: "RECYCLED WATER", OR USE WARNING LABEL BY T. CHRISTY ENTERPRISES 3800 OR EQUAL.
- ALL SPRINKLERS USED IN CUSTOMER RECYCLED WATER FACILITIES SHALL HAVE AN EXPOSED SURFACE COLORED PURPLE TO ASSOCIATE THEM WITH RECYCLED WATER USE. THE EXPOSED SURFACE MAY BE COLORED PURPLE THROUGH THE USE OF: (1) DYED PLASTIC OR RUBBER, OR (2) WEATHERPROOF PAINT.
- INSTALL WARNING TAGS AS MANUFACTURED BY T. CHRISTY ENTERPRISES 3150 OR EQUIVALENT TO ALL SUCH CONTROL VALVES, GATE VALVES, QUICK COUPLER VALVES, CONTROLLERS, METERS, ETC. TAGS SHALL BE WEATHERPROOF PLASTIC, 3-INCH BY 4-INCH, PURPLE IN COLOR WITH THE WORDS "WARNING: RECYCLED WATER - DO NOT DRINK" IMPRINTED ON ONE SIDE AND "AVISO: AGUA IMPURA - NO TOMAR" ON THE OTHER SIDE, OR SIMILAR AS APPROVED BY THE DISTRICT ENGINEER. IMPRINTING SHALL BE PERMANENT AND BLACK IN COLOR.
- PRIOR TO INSTALLATION, LOCATE DOMESTIC WATER MAINS AND/OR LATERALS (AS APPROPRIATE). RECYCLED WATER IRRIGATION PIPELINES AND PRIVATE POTABLE WATER PIPELINES SHALL BE INSTALLED IN SEPARATE TRENCHES WITH THE GREATEST POSSIBLE HORIZONTAL SEPARATION FROM PRIVATE POTABLE WATER PIPELINES. WHERE POSSIBLE MINIMUM CLEARANCES OF 10' FOOT HORIZONTAL AND 1' FOOT VERTICAL SHALL BE MAINTAINED BETWEEN POTABLE AND RECYCLED WATER LINES. WHERE RECYCLED WATER IRRIGATION PIPELINES AND PRIVATE POTABLE WATER PIPELINES CROSS, THE POTABLE WATER PIPE SHALL BE INSTALLED A MINIMUM OF TWELVE (12) INCHES ABOVE THE RECYCLED WATER PIPING.
- RECYCLED WATER PIPING SHALL BE INSTALLED AT THE FOLLOWING MINIMUM DEPTHS FROM FINISHED GRADE TO TOP OF PIPE (MINIMUM COVER) SHALL BE AS FOLLOWS:
 - CONSTANT PRESSURE LINES 3 INCHES OR LARGER: 24 INCHES
 - CONSTANT PRESSURE LINES 2-1/2 INCHES AND SMALLER: 18 INCHES
 - INTERMITTENT PRESSURE LINES: 12 INCHES

WHERE PIPING IS UNDER PAVED AREAS, THESE DIMENSIONS SHALL BE INCREASED TO INCLUDE THE ROADWAY SECTION AND ADEQUATELY PROTECT THE PIPING FROM DAMAGE FROM TRAFFIC LOADS.
- (USE THIS NOTE ONLY IF POTABLE WATER SERVICE IS AVAILABLE.) NO HOSE BIBS SHALL BE USED FOR RECYCLED WATER SYSTEMS. QUICK-COUPLING VALVES SHALL BE CONSTRUCTED OF BRASS WITH A PURPLE RUBBER OR VINYL COVER, AND SHALL HAVE A 1-INCH INLET WITH ACME THREAD BODY, NELSON MODEL 7645 OR EQUAL, AND KEY, NELSON MODEL 7640 OR EQUAL.
- RECORD DRAWINGS OF CUSTOMER FACILITY IRRIGATION SYSTEMS SHALL BE PROVIDED TO THE DISTRICT.
- THE IRRIGATION CONTROLLER SHALL BE PROGRAMMED TO WATER BETWEEN THE HOURS OF 9:00 PM AND 7:00 AM ONLY. ADDITIONAL RESTRICTED WATERING TIMES MAY BE ESTABLISHED BASED ON SITE CONDITIONS AS APPROVED BY THE DISTRICT REPRESENTATIVE.
- FLUSHING OF RECYCLED WATER THROUGH IRRIGATION SYSTEM PIPING SHALL BE PERFORMED IN A MANNER THAT MINIMIZES DISCHARGE FROM THE SITE OR CREATES PONDING. FLUSHING SHALL NOT BE PERMITTED IN A WAY THAT CREATES PUDDLES THAT ALLOWS THE RECYCLED WATER TO BECOME STAGNANT. FLUSHING INTO THE SANITARY SEWER IS THE MOST ACCEPTABLE WAY TO DISCHARGE RECYCLED WATER. IF THIS IS NOT POSSIBLE, THEN FLUSHING MAY BE DONE BY DIVERTING RECYCLED WATER INTO A STORAGE TANK, TANK TRUCK OR OTHER APPROVED HOLDING FACILITY. HOLDING FACILITIES MUST BE CLEARLY MARKED WITH WARNING SIGNS. RECYCLED WATER SHALL BE TRANSPORTED AND DISCHARGED AT AN APPROVED SITE IN AN APPROVED MANNER.
- WHERE BOTH POTABLE AND RECYCLED WATER CUSTOMER FACILITIES ARE PRESENT AT A SITE, A CROSS-CONNECTION INSPECTION AND TEST SHALL BE PERFORMED ON BOTH THE POTABLE AND RECYCLED WATER SYSTEMS. THE CROSS-CONNECTION TEST WILL BE CONDUCTED BY DISTRICT STAFF IN ACCORDANCE WITH SECTION IV-B3 OF THE DISTRICT STANDARDS. THE CONTRACTOR SHALL REQUEST THE CROSS-CONNECTION TEST BY THE DISTRICT A MINIMUM OF 2 DAYS PRIOR TO THE PERFORMING THE TEST. RECYCLED WATER PIPING SHALL BE TESTED USING POTABLE WATER WITH AN APPROVED BACKFLOW PREVENTION DEVICE. THE BACKFLOW TESTING SHALL BE PERFORMED IN ACCORDANCE WITH DISTRICT SPECIFICATIONS, SECTION II-B3 AND SHALL BE CERTIFIED PRIOR TO ANY CROSS-CONNECTION TESTING.
- THE CONTRACTOR SHALL PERFORM A COVERAGE TEST IN THE PRESENCE OF DISTRICT INSPECTION STAFF TO CONFIRM THAT EXCESSIVE OVERSPRAY DOES NOT OCCUR IN ACCORDANCE WITH SECTION IV-B3-4. ANY MODIFICATIONS IN EITHER THE SYSTEM EQUIPMENT, OR ADJUSTMENT IDENTIFIED BY THE DISTRICT DURING THE COVERAGE TEST SHALL BE COMPLETED IN ACCORDANCE WITH THE SCHEDULE AND CONDITIONS DETERMINED BY THE DISTRICT AT THE TIME OF THE TEST.
- IN ALL AREAS WHERE THE PUBLIC MAY BE EXPOSED TO RECYCLED WATER, WARNING SIGNS SHALL BE INSTALLED AT JOINTLY APPROVED CITY AND DISTRICT LOCATIONS. SIGNS SHALL BE IN ACCORDANCE WITH DISTRICT STANDARD DETAILS, AND INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE DISTRICT'S STANDARD DETAILS.

GENERAL IRRIGATION NOTES

- THE CONTRACTOR SHALL REVIEW RELATED DRAWINGS INCLUDING RECORD DRAWING DATED ON JULY 13TH, 2004 BY IBP/ARCHITECTURE (THE APPROVED PLAN, "SITE IMPROVEMENTS, SAN RAMON VALLEY CENTER, CONTRA COSTA COMMUNITY COLLEGE DISTRICT", DATED ON MARCH 9, 2004, DSA APPL 01-106082), AND SHALL ENSURE COORDINATION WITH ALL APPLICABLE TRADES PRIOR TO SUBMITTING BID.
- THE IRRIGATION SYSTEM SHALL BE INSTALLED IN CONFORMANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES BY LICENSED CONTRACTORS AND EXPERIENCED WORKMEN. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND FEES RELATING TO HIS WORK.
- THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC. SHOWN WITHIN PAVED AREAS IS FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHERE POSSIBLE. AVOID ANY CONFLICTS BETWEEN THE SPRINKLER SYSTEM, PLANTING AND ARCHITECTURAL FEATURES. PARALLEL PIPES MAY BE INSTALLED IN COMMON TRENCH. PIPES ARE NOT TO BE INSTALLED DIRECTLY ABOVE ONE ANOTHER.
- DO NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.
- IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, ETC. HE SHALL COORDINATE HIS WORK WITH THE GENERAL CONTRACTOR AND OTHER SUBCONTRACTORS FOR THE LOCATION AND THE INSTALLATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADWAYS, PAVING, STRUCTURES, ETC. CONTRACTOR TO VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES PRIOR TO THE EXCAVATION OF TRENCHES. CONTRACTOR IS TO REPAIR ANY DAMAGE CAUSED BY HIS WORK AT NO ADDITIONAL COST TO THE OWNER.
- DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, SLEEVES, ETC., WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL OF HIS WORK AND PLAN HIS WORK ACCORDINGLY, FURNISHING SUCH FITTINGS, ETC., AS MAY BE REQUIRED TO MEET SUCH CONDITIONS. DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. THE WORK SHALL BE INSTALLED IN SUCH A MANNER AS TO AVOID CONFLICTS BETWEEN IRRIGATION SYSTEMS, PLANTING, AND ARCHITECTURAL FEATURES.
- EACH CONTROLLER SHALL HAVE ITS OWN INDEPENDENT GROUND WIRE.
- REMOTE CONTROL VALVES SHALL BE WIRED TO CONTROLLER IN SEQUENCE AS SHOWN ON PLANS. RUN EXISTING WIRE FROM EACH RCV TO THE CONTROLLER. SPLICING WIRES TOGETHER OUTSIDE OF VALVE BOXES WILL NOT BE PERMITTED.
- SPLICING OF 24-VOLT WIRES WILL NOT BE PERMITTED EXCEPT IN VALVE BOXES. LEAVE A 36" COIL OF EXCESS WIRE AT EACH SPLICE AND 100 FEET ON CENTER ALONG WIRE RUN. TAPE WIRE IN BUNDLES 10 FEET ON CENTER. NO TAPING PERMITTED INSIDE SLEEVES.
- VALVE LOCATIONS SHOWN ARE DIAGRAMMATIC. INSTALL IN GROUND COVER/SHRUB AREAS WHERE POSSIBLE.
- INSTALL VALVE BOXES MINIMUM 12" FROM AND PERPENDICULAR TO WALK, CURB, BUILDING OR LANDSCAPE FEATURE. AT MULTIPLE VALVE BOX GROUPS, EACH BOX SHALL BE AN EQUAL DISTANCE FROM THE WALK, CURB, ETC. AND EACH BOX SHALL BE MINIMUM 12" APART. SHORT SIDE OF VALVE BOXES SHALL BE PARALLEL TO WALK, CURB, ETC.
- ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO FINISH GRADE OF THE AREA TO BE IRRIGATED UNLESS OTHERWISE DESIGNATED ON THE PLANS.
- IN LOCATIONS WHERE LOW HEAD DRAINAGE WILL CAUSE EROSION AND EXCESS WATER, USE POP-UP SPRINKLER MODELS WITH INTEGRAL CHECK VALVE OR A KING BROS. CV SERIES CHECK VALVE ON DRIP RISERS.
- THE IRRIGATION CONTRACTOR SHALL FLUSH AND ADJUST ALL SPRINKLER HEADS FOR OPTIMUM PERFORMANCE AND TO PREVENT OVERSPRAY ONTO WALKS, ROADWAYS AND/OR BUILDINGS AS MUCH AS POSSIBLE. THIS SHALL INCLUDE SELECTING THE BEST DEGREE OF FIXED ARC (OR AN ADJUSTABLE ARC IF FIXED ARC DOES NOT MATCH THE ARC TO BE IRRIGATED) TO FIT THE SITE CONDITIONS AND TO THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH SYSTEM. ALL MAIN LINES SHALL BE FLUSHED PRIOR TO THE INSTALLATION OF IRRIGATION HEADS. AT 30 DAYS AFTER INSTALLATION EACH SYSTEM SHALL BE FLUSHED TO ELIMINATE GLUE AND DIRT PARTICLES FROM THE LINES.
- WHEN VERTICAL OBSTRUCTIONS (STREET LIGHTS, TREES, FIRE HYDRANTS, ETC.) INTERFERE WITH THE SPRAY PATTERN OF THE HEADS SO AS TO PREVENT PROPER COVERAGE, THE IRRIGATION CONTRACTOR SHALL FIELD ADJUST THE SPRINKLER SYSTEM BY INSTALLING A QUARTER, THIRD OR HALF CIRCLE HEAD AT THE SIDES OF THE OBSTRUCTION SO AS TO PROVIDE PROPER COVERAGE. ALL ADJUSTMENTS SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
- NOTIFY ARCHITECT/LANDSCAPE ARCHITECT OF ANY ASPECTS OF LAYOUT THAT WILL PROVIDE INCOMPLETE OR INSUFFICIENT WATER COVERAGE OF PLANT MATERIAL AND DO NOT PROCEED UNTIL HIS INSTRUCTIONS ARE OBTAINED.
- INSTALL BUBBLERS ON UPHILL SIDE OF PLANT.
- IN ADDITION TO THE SLEEVES AND CONDUITS SHOWN ON THE DRAWINGS, THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF SLEEVES AND CONDUITS OF SUFFICIENT SIZE UNDER ALL PAVED AREAS.
- ALL EXCAVATIONS ARE TO BE FILLED WITH COMPACTED BACKFILL. CONTRACTOR TO REPAIR ALL SETTLED TRENCHES PROMPTLY, FOR A PERIOD OF 1 YEAR AFTER COMPLETION OF WORK. ADDITIONALLY, CONTRACTOR SHALL WARRANT THAT THE IRRIGATION SYSTEM WILL BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF 1 YEAR AFTER FINAL ACCEPTANCE OF WORK.
- EXISTING SPRINKLER SYSTEM DESIGN IS BASED ON RECORD DRAWINGS. THE IRRIGATION CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION TO THE OWNER'S AUTHORIZED REPRESENTATIVE.
- IRRIGATION DEMAND: SEE NOTE BELOW
- OPERATE IRRIGATION CONTROLLER(S) TO MATCH EXISTING OPERATION SCHEDULE.
- PRIOR TO TRENCHING, CALL UNDERGROUND SERVICE ALERT, USA NORTH 811 AT 811 AND AFFECTED UTILITY COMPANIES 48 HOURS BEFORE DIGGING.
- CONTRACTOR TO VERIFY EXISTING IRRIGATION SYSTEM IN FIELD AND REVIEW RECORD DRAWING PRIOR TO CONSTRUCTION. CONTRACTOR TO BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/LANDSCAPE ARCHITECT.
- CONTRACTOR TO MAKE SURE EXISTING IRRIGATION VALVES OPERATE CORRECTLY WHEN EXISTING IRRIGATION VALVES ARE SALVAGED AND REUSED FOR NEW IRRIGATION SYSTEM. CONTRACTOR TO REPLACE EXISTING IRRIGATION VALVES WITH NEW IRRIGATION VALVES OF SAME MODEL WHEN EXISTING VALVES ARE NOT WORKABLE.

WATER PRESSURE & SYSTEM DESIGN INFORMATION:

THE DESIGN OF THIS IRRIGATION SYSTEM IS BASED ON THE EXISTING WATER SERVICE PRESSURE OF 96 PSI STATIC PRESSURE AT POINT OF CONNECTION OF EXISTING WATER METER BASED ON THE RECORD IRRIGATION PLAN DATED ON JULY 13, 2004 (THE APPROVED PLAN DATED ON MARCH 9, 2004 PER IBP/ARCHITECTURE)

IRRIGATION DEMAND: 115 GPM @ 65 PSI AFTER PRESSURE REDUCING VALVE. CONTRACTOR TO CONFIRM PRESSURE AT POINT OF CONNECTION PRIOR TO INSTALLING NEW SYSTEM AND BRING ANY DISCREPANCIES TO THE ATTENTION OF THE LANDSCAPE ARCHITECT.

IRRIGATION LEGEND

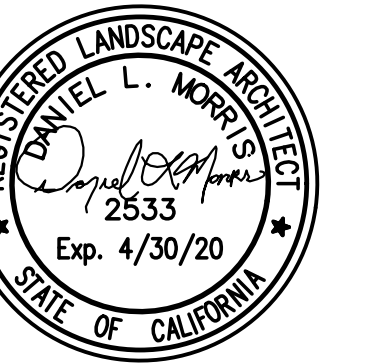
| SYMBOL | MANUF. | DESCRIPTION |
|--------|-------------|---|
| | CALSENSE | EXISTING CALSENSE CONTROLLER ASSEMBLY-TELEPHONE COMMUNICATION AND HARD WIRE TO CONTROLLER 'B', STAINLESS STEEL PEDESTAL MOUNT ENCLOSURE, RADIO REMOTE RECEIVERS AND TRANSIENT BOARDS, AC LINE PROTECTION WITH FLOWSENSE OPTION. REFER TO RECORD DRAWINGS AND VERIFY IN FIELD. |
| | CALSENSE | EXISTING CALSENSE CONTROLLER ASSEMBLY-HARD WIRE TO CONTROLLER 'A', STAINLESS STEEL PEDESTAL MOUNT ENCLOSURE, RADIO REMOTE RECEIVERS AND TRANSIENT BOARDS, AC LINE PROTECTION WITH FLOWSENSE OPTION. REFER TO RECORD DRAWINGS AND VERIFY IN FIELD. |
| | TORO | EXISTING TORO PRESSURE REGULATING MASTER CONTROL. NOT SHOWN IN PLAN AND VERIFY IN FIELD. REFER TO RECORD DRAWINGS. |
| | CALSENSE | EXISTING CALSENSE FLOW METER, FM-1.5. NOT SHOWN IN PLAN. REFER TO RECORD DRAWINGS AND VERIFY IN FIELD. |
| | GRISWOLD | EXISTING GRISWOLD PRESSURE REDUCING VALVE, WILKINS WYE STRAINER, AND NIBCO GATE VALVE. NOT SHOWN IN PLAN. REFER TO AS BUILT DRAWINGS AND VERIFY IN FIELD. |
| | TORO | EXISTING REMOTE CONTROL VALES REMAIN AND PROTECTED (220-27), SIZE AS NOTED. REFER TO RECORD DRAWINGS AND VERIFY IN FIELD. |
| | RAINBIRD | NEW REMOTE CONTROL VALES, MODEL--RAINBIRD--PESB--R SERIES, VALVE SIZES INDICATED/TBD ON PLANS. INSTALL IN BOX |
| | RAINBIRD | NEW DRIP CONTROL ZONE KIT, MODEL; RAINBIRD--XCZ--150--LCDR, VALVE SIZES INDICATED ON PLANS. INSTALL IN BOX PURPLE BOX |
| | NIBCO | EXISTING GATE VALVE(T-113-IRR FOR 3" & SMALLER, P-619--RW FOR 4" AND LARGER). REFER TO RECORD DRAWINGS AND VERIFY IN FIELD. |
| | NIBCO | NEW GATE VALVE TO MATCH EXISTING MODEL (T-113-IRR FOR 3" & SMALLER, P-619--RW FOR 4" AND LARGER). REFER TO RECORD DRAWINGS AND VERIFY IN FIELD. |
| | NELSON | EXISTING NELSON QUICK COUPLING VALVES. REFER TO RECORD DRAWINGS AND VERIFY IN FIELD. |
| | CALSENSE | EXISTING CALSENSE TIPPING RAIN BUCKET, RB-1 REFER TO RECORD DRAWINGS AND VERIFY IN FIELD. |
| | NETAFIM USA | MANUAL LINE FLUSHING VALVE, MODEL TLSOV. OR APPROVED EQUAL |
| | RAINBIRD | NEW DEEP ROOT WATERING SYSTEM, MODEL--RWS--B--C--1401--R, DEEP WATERING BUBBLER ASSEMBLY AND CHECK VALVE(TREE). |
| | RAINBIRD | NEW BUBBLER, MODEL--1401 SERIES, 0.25GPM, FULL CIRCLE, TRICKLE PATTERN(TREE/SHRUB) |
| | | SUBSURFACE DRIP LINE: NETAFIM USA, TECHLINE HCVR DRIPPERLINE TLHCVR--RWP3--18--XX (COIL LENGTH) LATERAL SPACING AT 18-INCHES AT SHRUB / GROUND COVER AREAS AND AT 12-INCHES FOR BIORETENTION AREA; INSTALL WITH TECHLINE TL6 6" WIRE STAPLE AT 4' O.C. OR APPROVED EQUAL. |
| | | LATERAL LINE: PVC SCH 40, SOLVENT WELD FITTINGS, 12" MIN. SOIL COVER, 36" MIN. COVER FROM FINISH GRADE OR 12" BELOW GRADE, WHICHEVER IS DEEPER OVER SLEEVING INSTALLED UNDER PAVING. COLOR: PURPLE |
| | | EXISTING 4" AND 2 1/2" WATER MAINLINE. REFER TO RECORD DRAWINGS AND VERIFY IN FIELD. |
| | | NEW 4" AND 2 1/2" WATER MAINLINE. 1120-CL 200 GASKETED PVC PLASTIC PIPE FOR 4" & LARGER, 1120-SCHEDULE 40 PVC PLASTIC PIPE FOR 3" & SMALLER, 24" MIN. SOIL COVER, 36" MIN. COVER FROM FINISH GRADE OR 12" BELOW SUBGRADE, WHICHEVER IS DEEPER OVER SLEEVING INSTALLED UNDER PAVING. REFER TO AS BUILT DRAWINGS AND VERIFY IN FIELD. COLOR: PURPLE |
| | | NEW SLEEVE (SL): -SCHEDULE 40 HDPE PIPE, SIZE SHALL BE A MINIMUM OF 6" AND AT LEAST TWO TIMES THE TOTAL SUM DIAMETER OF ALL PIPES CONTAINED WITHIN SLEEVE. INSTALL A SEPARATE SLEEVE FOR WIRES. 24" COVER. |
| | | EXISTING SLEEVING (SL), REFER TO RECORD DRAWINGS AND VERIFY IN FIELD. |
| | | REMOTE CONTROL VALVE SEQUENCE NUMBER PER RECORD DRAWINGS. |
| | | APPROXIMATE GALLONS PER MINUTE |
| | | REMOTE CONTROL VALVE SIZE |
| | | NEW VALVE(N) OR EXISTING VALVE(E) |

*SEE NOTES FOR ADDITIONAL INFORMATION FOR RECYCLED WATER IRRIGATION SYSTEM.

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PROJECT TITLE

CONTRA COSTA
CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION & RENOVATION

1690 Watermill Rd.
San Ramon, CA 94582

RECORD SET:

THESE DRAWINGS HAVE BEEN PREPARED FROM ADDENDUMS, CCD'S, ASIS AND SELECT RFI'S OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM. ONLY A SELECT FEW AS-BUILTS WERE SUBMITTED.

ISSUE TITLE

INCREMENT 2

ISSUE DATE 5/30/2019

NOLL & TAM JOB NUMBER 21630

REVISIONS

DATE DESCRIPTION

SHEET TITLE

IRRIGATION NOTES AND LEGEND

SHEET NUMBER

L3.01.2

These drawings have been prepared based on information submitted, in part, by others. Landscape Architect has provided a review consistent with its legal standard of care.

IRRIGATION NOTES

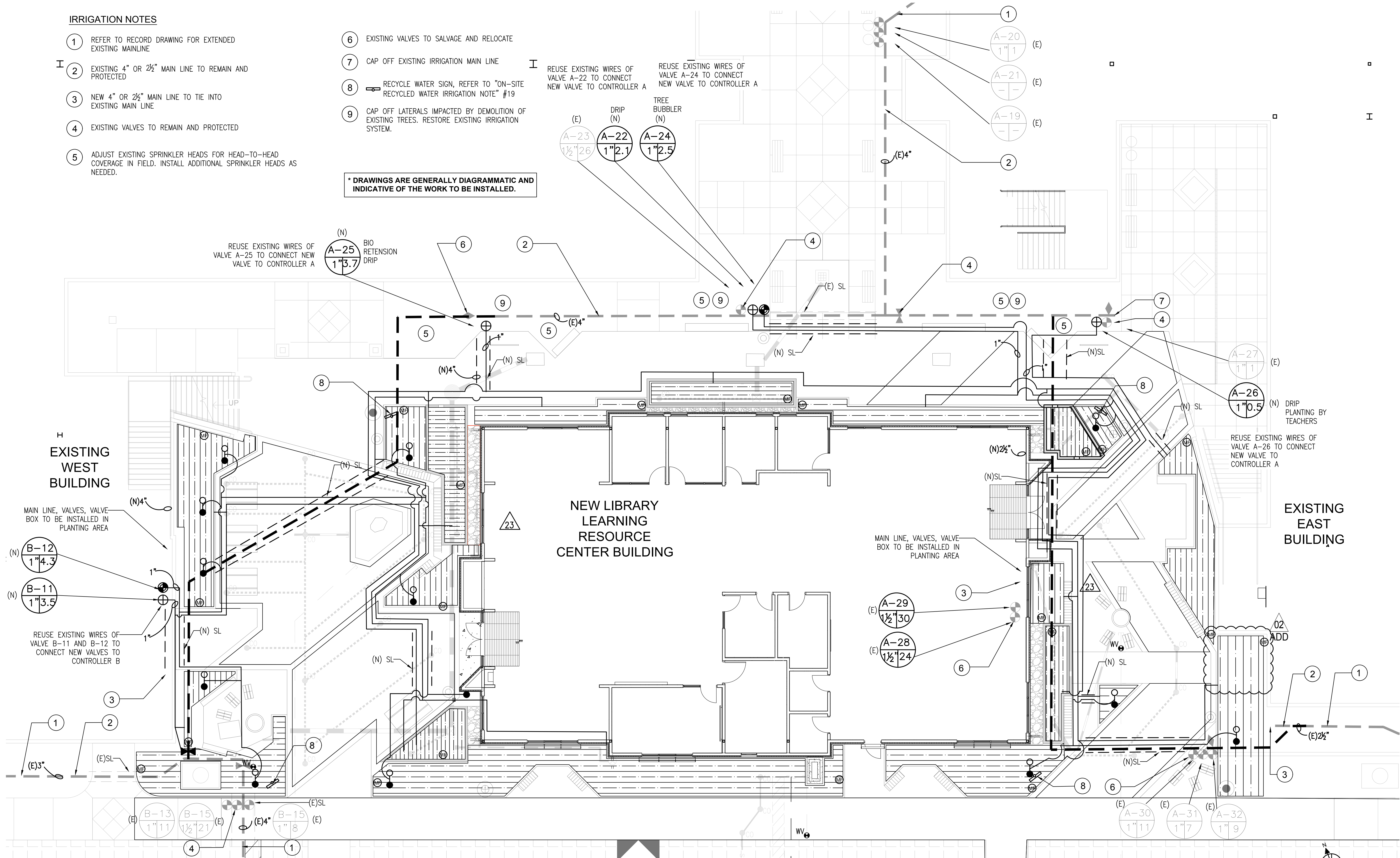
- 1 REFER TO RECORD DRAWING FOR EXTENDED EXISTING MAINLINE
- 2 EXISTING 4" OR 2½" MAIN LINE TO REMAIN AND PROTECTED
- 3 NEW 4" OR 2½" MAIN LINE TO TIE INTO EXISTING MAIN LINE
- 4 EXISTING VALVES TO REMAIN AND PROTECTED
- 5 ADJUST EXISTING SPRINKLER HEADS FOR HEAD-TO-HEAD COVERAGE IN FIELD. INSTALL ADDITIONAL SPRINKLER HEADS AS NEEDED.

- 6 EXISTING VALVES TO SALVAGE AND RELOCATE
- 7 CAP OFF EXISTING IRRIGATION MAIN LINE
- 8 RECYCLE WATER SIGN, REFER TO "ON-SITE RECYCLED WATER IRRIGATION NOTE" #19
- 9 CAP OFF LATERALS IMPACTED BY DEMOLITION OF EXISTING TREES. RESTORE EXISTING IRRIGATION SYSTEM.

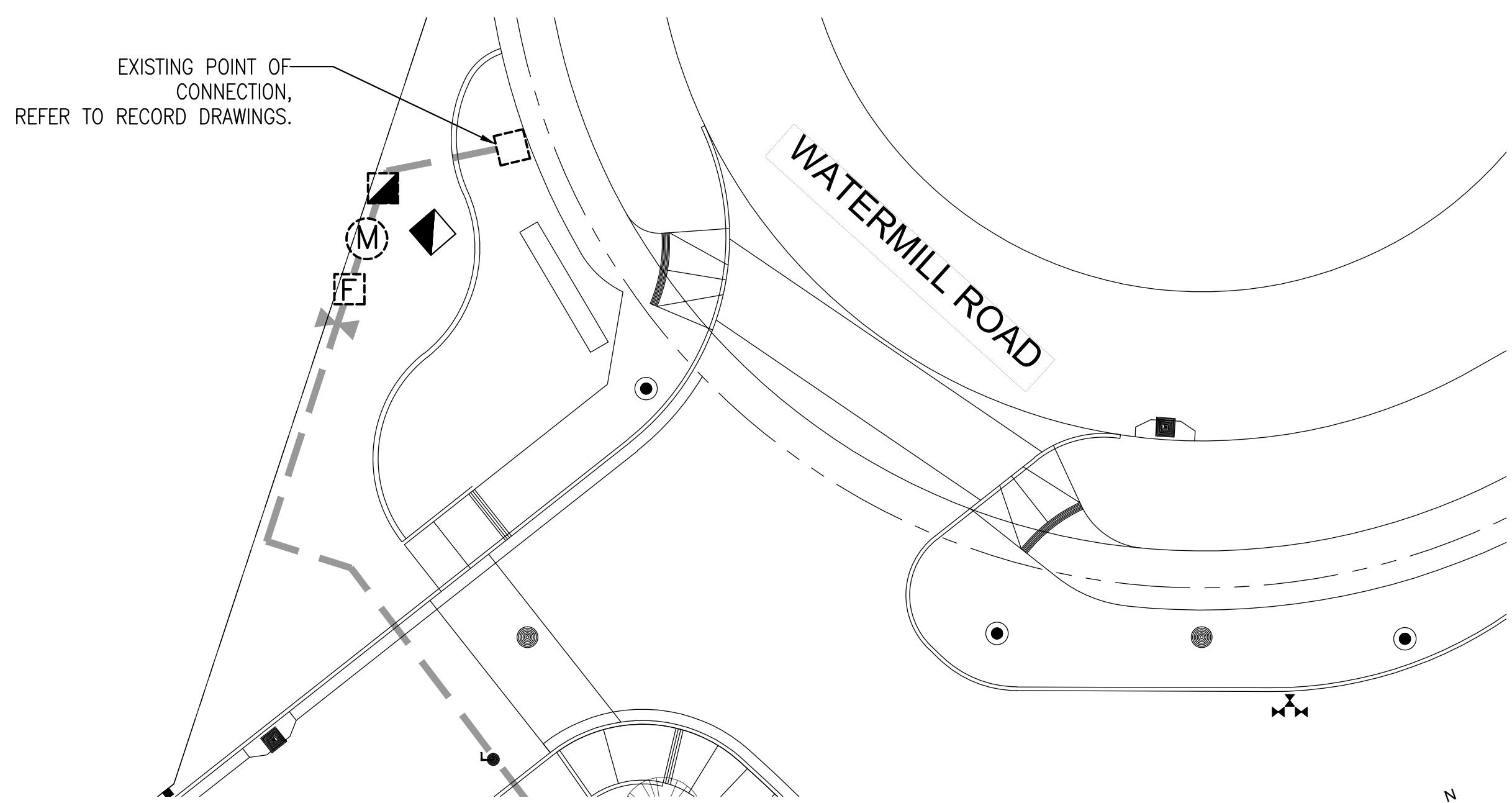
REUSE EXISTING WIRES OF VALVE A-22 TO CONNECT NEW VALVE TO CONTROLLER A

REUSE EXISTING WIRES OF VALVE A-24 TO CONNECT NEW VALVE TO CONTROLLER A

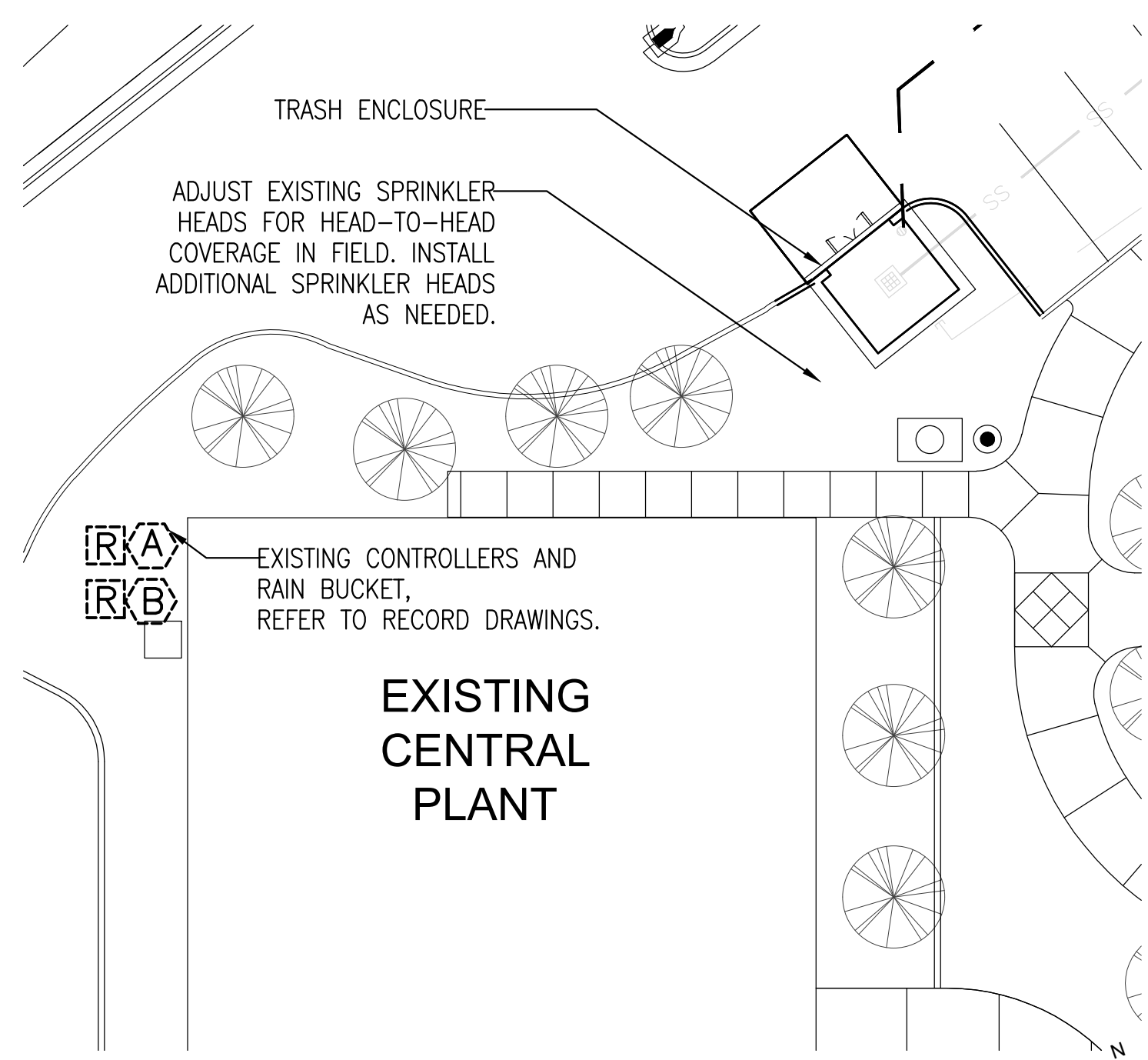
*DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED.



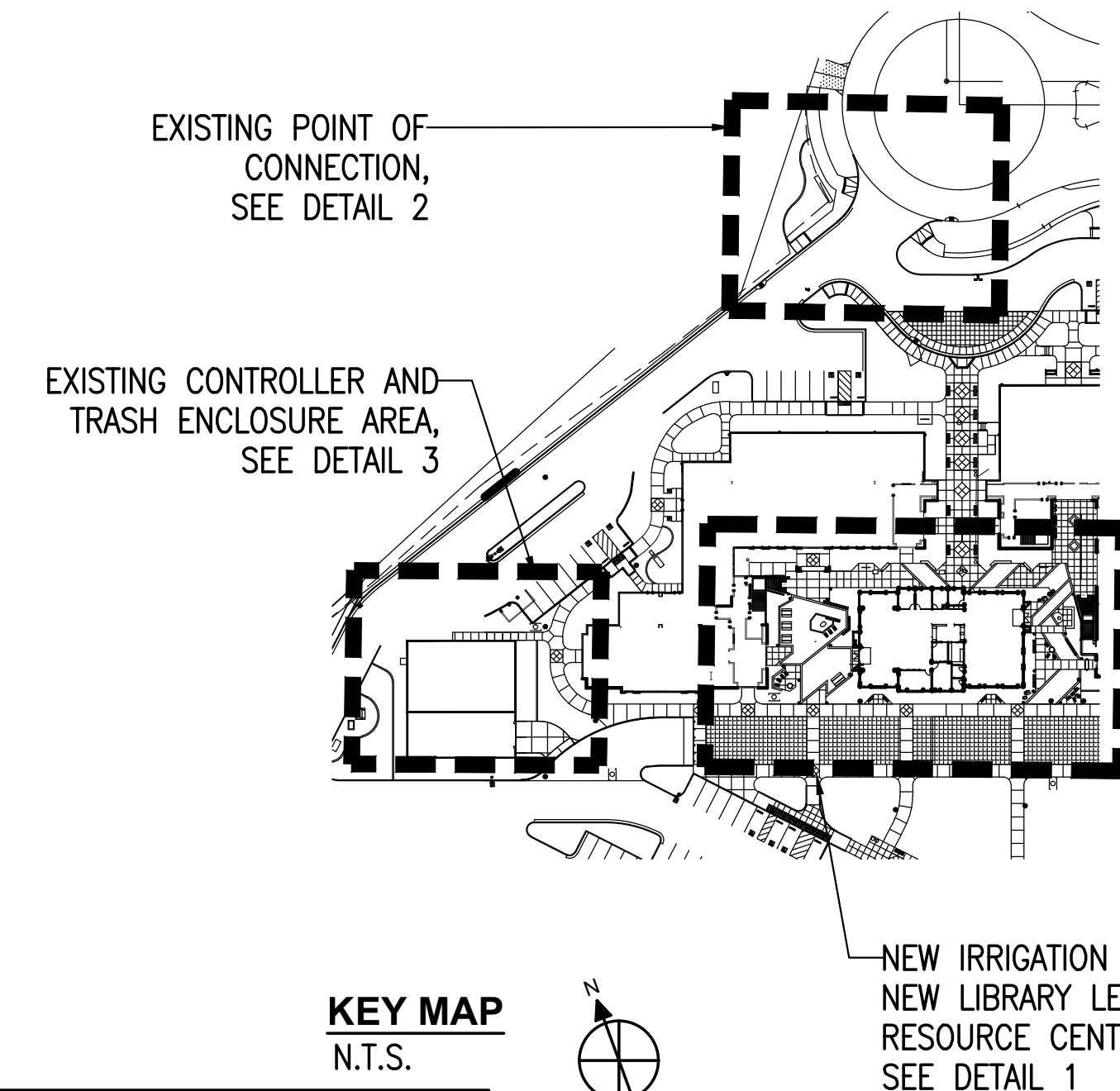
1 NEW IRRIGATION SYSTEM AT NEW LIBRARY LEARNING RESOURCE CENTER BUILDING



2 EXISTING POINT OF CONNECTION



3 EXISTING CONTROLLERS AND TRASH ENCLOSURE AREA



KEY MAP
N.T.S.

These drawings have been prepared based on information submitted, in part, by others. Landscape Architect has provided a review consistent with its legal standard of care.

APPROVALS

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PROJECT TITLE

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ISSUE TITLE

INCREMENT 2

ISSUE DATE 5/30/2019

NOLL & TAM JOB NUMBER 21630

REVISIONS

| DATE | DESCRIPTION |
|------------|---------------------|
| 8/2/19 | INCC2-ADDENDUM 2 |
| 11/20/2020 | ASI 23 - PLANT REVS |

8/2/19 INCC2-ADDENDUM 2

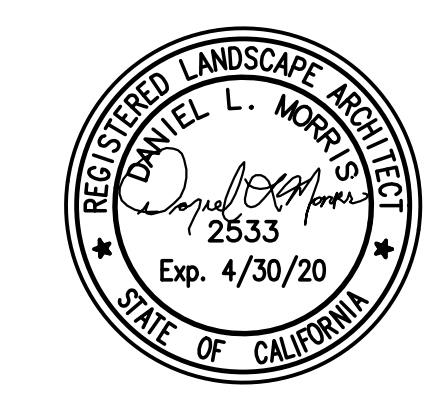
11/20/2020 ASI 23 - PLANT REVS

SHEET TITLE

IRRIGATION PLAN

SHEET NUMBER

L3.02.2



TRENCH DETAIL

SECTION VIEW
WARNING TAPE PER SPECS
LATERAL LINE
MAIN LINE
WIRE BUNDLE
CLEAN FILL
PROVIDE A MINIMUM 2" BETWEEN PIPES

PLAN VIEW
RUN WIRING BENEATH AND BESIDE MAINLINE. TAPE AND BUNDLE AT 10' INTERVALS
SOLVENT WELD PLASTIC PIPING TO BE SNAKED IN TRENCH AS SHOWN

NOTES:
A. SLEEVE BELOW HARDSCAPE ELEMENTS WITH CLASS 200 PVC PIPE, TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE WITHIN.
B. FOR PIPE AND WIRE BURIAL DEPTHS REFER TO IRRIGATION LEGEND AND SPECIFICATIONS.
C. TIE A 24" LOOP IN ALL WIRING AT CHANGES OF DIRECTION OF 30 DEGREES OR GREATER. UNTIE AFTER ALL CONNECTIONS BEEN MADE.

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| Drawn by: SP/ER | Date: March 2016 | Scale: NTS |
| Checked by: Jeff Gault | Revisions | NTS |
| Approved by: <i>Paul R. Bantler</i> | No. Date App. Description | Drawing |
| CITY ENGINEER | | I-11 |
| Date: 3/14/16 | | |

VALVE BOX DETAIL

TOP VIEW

1 11-3/4" X 17" X 12" DEEP VALVE BOX.
2 16" X 25-1/2" X 15" DEEP RECTANGULAR VALVE BOX FOR 1-1/4" AND LARGER VALVE ASSEMBLIES.
3 10" DIAMETER ROUND PLASTIC VALVE BOX FOR QUICK COUPLING VALVE, OR ISOLATION BALL VALVE
4 EDGE OF LAWN, PAVING, FENCE, CURB, ETC.

NOTES:
A. ALIGN VALVE BOX OVER ASSEMBLY TO FACILITATE SERVICING COMPONENTS. ALL COMPONENTS WITHIN VALVE BOXES SHALL BE COMPLETELY ACCESSIBLE FOR SERVICE AND MAINTENANCE (TYPICAL).
B. SET BOXES 1-1/2" ABOVE FINISH GRADE OR MULCH COVER IN GROUND COVER/SHRUB AREA AND 1" ABOVE FINISH GRADE IN TURF AREA.
C. SET RCV AND VALVE BOX ASSEMBLY IN GROUND COVER/SHRUB AREA WHERE POSSIBLE. INSTALL IN LAWN ONLY IF GROUND COVER DOES NOT EXIST ADJACENT TO LAWN.
D. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE OF LAWN, WALK, FENCE, CURB, ETC.
E. AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOXES TO PREVENT COLLAPSE AND DEFORMATION OF VALVE BOX SIDES. COVER BOX CUT-OUTS TO PREVENT SOIL IN BOX.
F. INSTALL EXTENSION BY VALVE BOX MANUFACTURER AS REQUIRED TO COMPLETELY ENCLOSE ASSEMBLY FOR EASY ACCESS.
G. HOT STAMP ALL VALVE BOX LIDS WITH 2" MINIMUM LETTER HEIGHT PER LANDSCAPE STANDARD SPECIFICATIONS.
H. USE PURPLE VALVE BOXES FOR RECYCLED SYSTEMS.

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| Approved by: <i>Paul R. Bantler</i> | No. Date App. Description | Drawing |
| CITY ENGINEER | | I-14 |
| Date: 3/14/16 | | |

3" OR LARGER GATE VALVE DETAIL

1 GATE VALVE WITH 2" OPERATING NUT AS SPECIFIED (GASKETED CONNECTION).
2 GASKETED PVC MAINLINE.
3 #4 REBAR - BEND OVER VALVE BODY WITH "L" BENDS AT ENDS.
4 CONCRETE THRUST BLOCK (SEE DETAIL).
5 6" CL. 160 PVC PIPE. NOTCH TO FIT OVER MAINLINE PIPE.
6 ROUND PLASTIC VALVE BOX WITH T-COVER LOCKING LID. 10" DIAMETER. INSTALL BOX AS SHOWN IN VALVE BOX DETAIL.
7 BRICK: ONE ON EACH SIDE - 2 TOTAL.
8 3/4" DRAIN ROCK - 6" DEEP MINIMUM.
9 FINISH GRADE.
10 PROVIDE RECYCLED WATER TAG WITHIN BOX - FOR RECYCLED SYSTEMS.

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| Date: 3/14/16 | | |

2.5" AND SMALLER GATE VALVE DETAIL

1 ROUND PLASTIC VALVE BOX WITH T-COVER LOCKING LID. TOP 10" DIAMETER. INSTALL AS SHOWN IN VALVE BOX DETAIL.
2 8" CLASS 160 OR SCHEDULE 40 PVC PIPE (NOTCH TO FIT OVER MAIN LINE PIPE).
3 PVC MAIN LINE.
4 FINISH GRADE.
5 3/4" DRAIN ROCK - 6" DEEP MINIMUM.
6 BRICK: ONE ON EACH SIDE - 2 TOTAL.
7 GATE VALVE AS SPECIFIED.
8 SCHEDULE 80 PVC MALE ADAPTER.
9 PROVIDE RECYCLED WATER TAG WITHIN BOX - FOR RECYCLED SYSTEMS.

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| Drawn by: SP/ER | Date: March 2016 | Scale: NTS |
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| CITY ENGINEER | | I-16 |
| Date: 3/14/16 | | |

WATERPROOF SPLICE ASSEMBLY DETAIL

1 STRIP INSULATION 3/4".
2 WITH WIRE ENDS EVEN, INSERT WIRES INTO THE CONNECTOR AND TIGHTEN UNTIL SECURE.
3 INSERT THE CONNECTOR ALL THE WAY INTO THE TUBE UNTIL THE CONNECTOR RESTS ON THE BOTTOM.
4 FOLD THE WIRE INTO THE CHANNELS.
5 CLOSE THE CAP. INSPECT FINAL SPLICE ASSEMBLY TO BE SECURE AND FINISHED.

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| CITY ENGINEER | | I-9 |
| Date: 3/14/16 | | |

REMOTE CONTROL VALVE DETAIL

1 VALVE CONTROL WIRE - PROVIDE 3M DBRY-6 SEAL PACKS AT ALL SPLICES AND 36" OF EXCESS UP WIRE IN A 1" DIAMETER COIL. ATTACH VALVE I.D. TAGS PER SPECIFICATIONS.
2 RECTANGULAR PLASTIC VALVE BOX WITH T-COVER LOCKING LID. ONE VALVE PER BOX - NO EXCEPTIONS. INSTALL BOX AS SHOWN IN VALVE BOX DETAIL. TOP DIMENSION AS FOLLOWS:
A. FOR 1" AND SMALLER CONTROL VALVES INSTALL A VALVE BOX WITH AN OUTSIDE TOP DIMENSION OF 11-3/4" X 17" X 12" DEEP.
B. FOR 1-1/4" AND LARGER CONTROL VALVES INSTALL A VALVE BOX WITH A MINIMUM OUTSIDE TOP DIMENSION OF 16" X 25-1/2" X 15" DEEP.
3 REMOTE CONTROL VALVE WITH FLOW CONTROL AND MANUAL BLEED.
4 SCHEDULE 80 PVC THREADED FITTINGS (AS REQUIRED).
5 THREADED PVC BALL VALVE IN 1-1/2" AND SMALLER ASSEMBLIES, THREADED BRONZE GATE VALVE IN 2" AND LARGER ASSEMBLIES (SEE NOTE BELOW).
6 PVC MAIN LINE.
7 SCHEDULE 80 PVC MAINLINE TEE CONNECTION.
8 3/4" DRAIN ROCK - 4" DEEP BELOW VALVE (NO SOIL IN VALVE BOX). INSTALL WELDED WIRE MESH BELOW VALVE BOX IN ACCORDANCE WITH CALTRANS STANDARDS.
9 SCHEDULE 80 PVC THREADED UNION (2 TOTAL).
10 SCHEDULE 80 PVC MALE ADAPTER.
11 PVC LATERAL LINE.
12 LOWER LATERAL LINE WITH SCHEDULE 80 PVC 45° ELBOWS.
13 REFER TO IRRIGATION LEGEND FOR PIPE DEPTHS.
14 BRICK - 1 EACH CORNER OF VALVE BOX.
15 FINISH GRADE.
16 PROVIDE RECYCLED WATER TAG WITHIN BOX - FOR RECYCLED SYSTEMS.

NOTE: INSTALL ONE ISOLATION VALVE FOR EACH ISOLATED RCV, OR ONE ISOLATION VALVE FOR A GROUP OF RCV'S (SIZE TO MATCH LARGEST RCV).

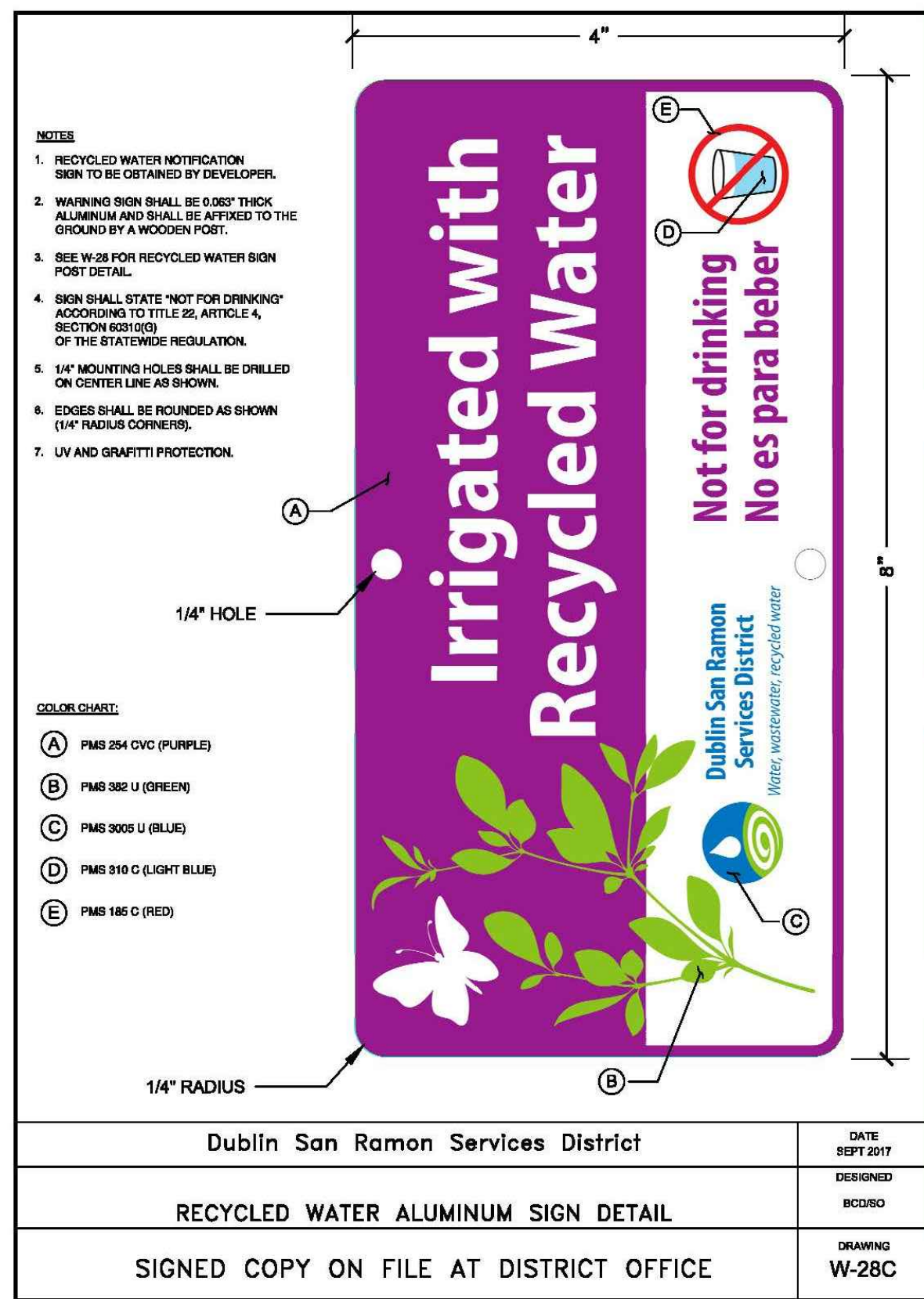
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| Drawn by: SP/ER | Date: March 2016 | Scale: NTS |
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| Approved by: <i>Paul R. Bantler</i> | No. Date App. Description | Drawing |
| CITY ENGINEER | | I-21 |
| Date: 3/14/16 | | |

POP-UP SPRINKLER RISER DETAIL

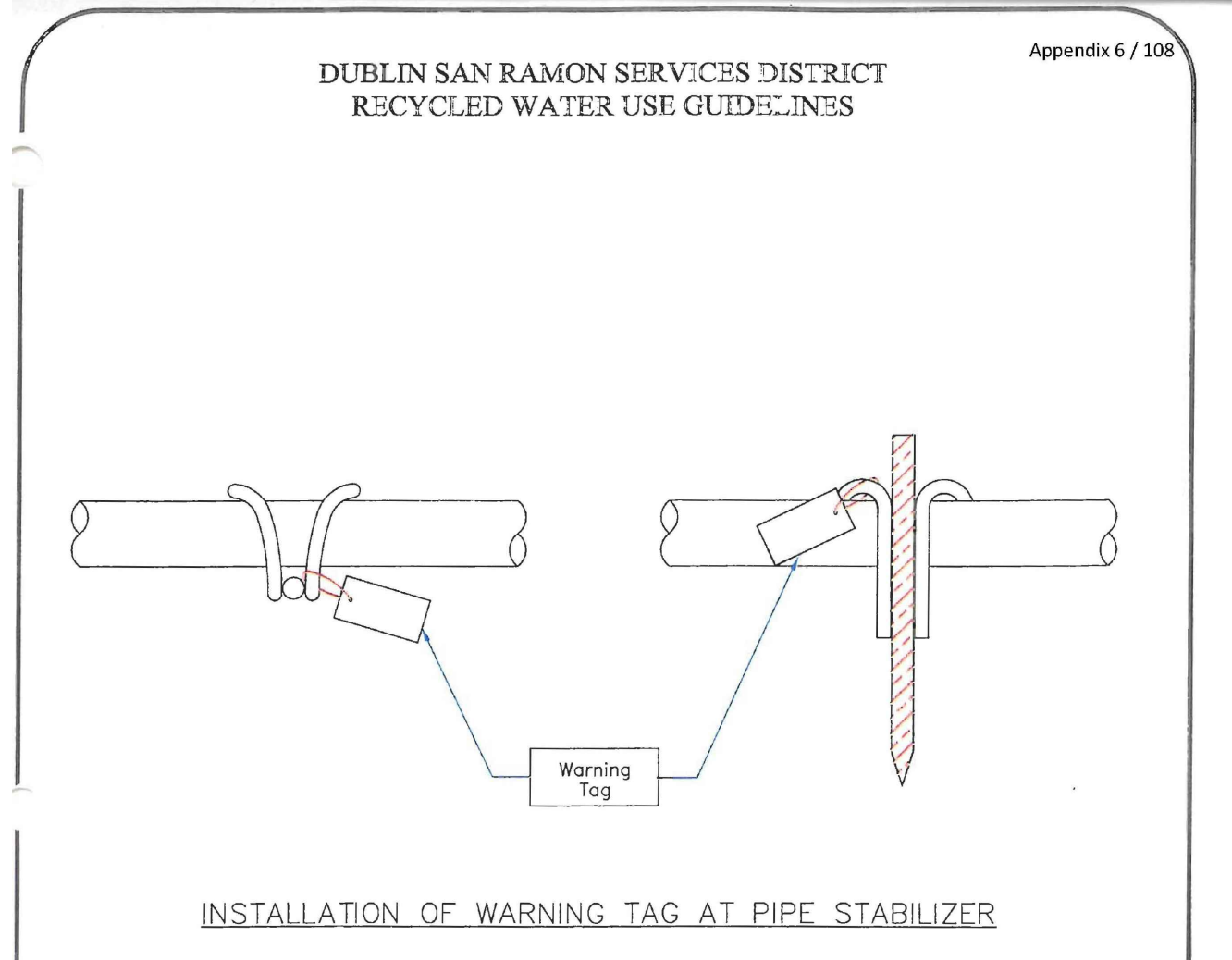
1 POP-UP SPRINKLER AS SPECIFIED.
2 FINISH GRADE.
3 SCHEDULE 80 PVC THREADED NIPPLE (LENGTH AS REQUIRED).
4 10' LONG SCHEDULE 80 PVC THREADED NIPPLE.
5 SCHEDULE 40 PVC TEE OR ELBOW.
6 PVC LATERAL LINE.
7 3" LONG SCHEDULE 80 PVC THREADED NIPPLE FOR 3/4" AND LARGER ASSEMBLIES.
8 SCHEDULE 80 PVC THREADED 90° ELBOWS FOR 3/4" AND LARGER ASSEMBLIES, MARLEX STREET ELLS FOR 1/2" ASSEMBLIES.
9 2" IN TURF AREAS, 4"-6" IN GROUND COVER AREAS, 6" IN STREET MEDIANS.
10 WALL, WALK, CURB OR HEADER.
11 6" BELOW BOTTOM OF SPRINKLER BODY.
12 12" MINIMUM DEPTH.

NOTES:
A. SET SPRINKLER 2" ABOVE FINISH GRADE IN SHRUB AREAS AND 1" ABOVE FINISH GRADE IN TURF AREAS.
B. NIPPLES AND FITTINGS TO BE SAME IPT SIZE AS SPRINKLER IPT INLET THREAD SIZE.
C. PRE-ASSEMBLED SWING JOINTS BY LESCO OR OTHERS ARE NOT PERMITTED FOR USE ON ANY CITY IRRIGATION SYSTEM.

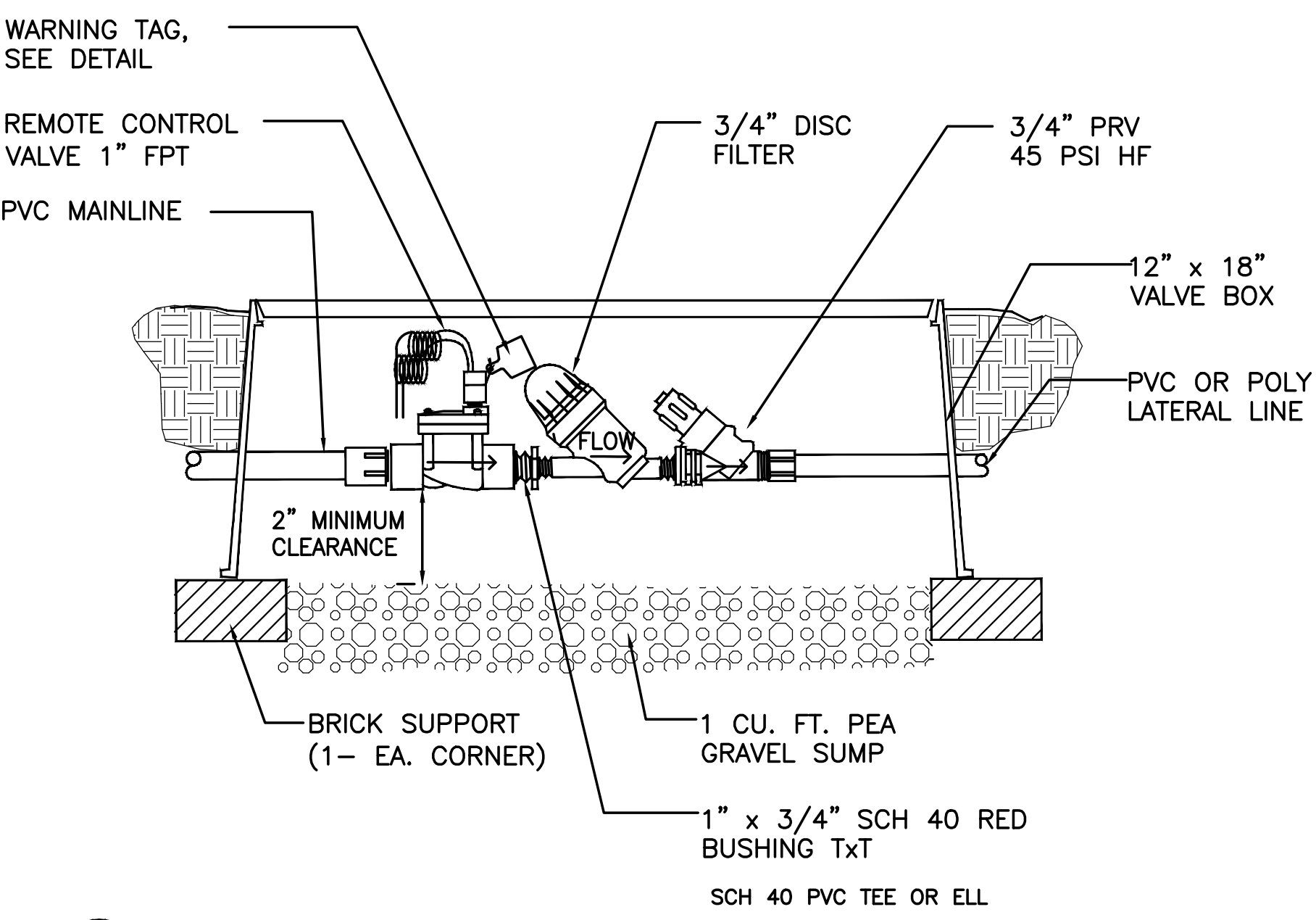
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| Drawn by: SP/ER | Date: March 2016 | Scale: NTS |
| Checked by: Jeff Gault | Revisions | NTS |
| Approved by: <i>Paul R. Bantler</i> | No. Date App. Description | Drawing |
| CITY ENGINEER | | I-22 |
| Date: 3/14/16 | | |



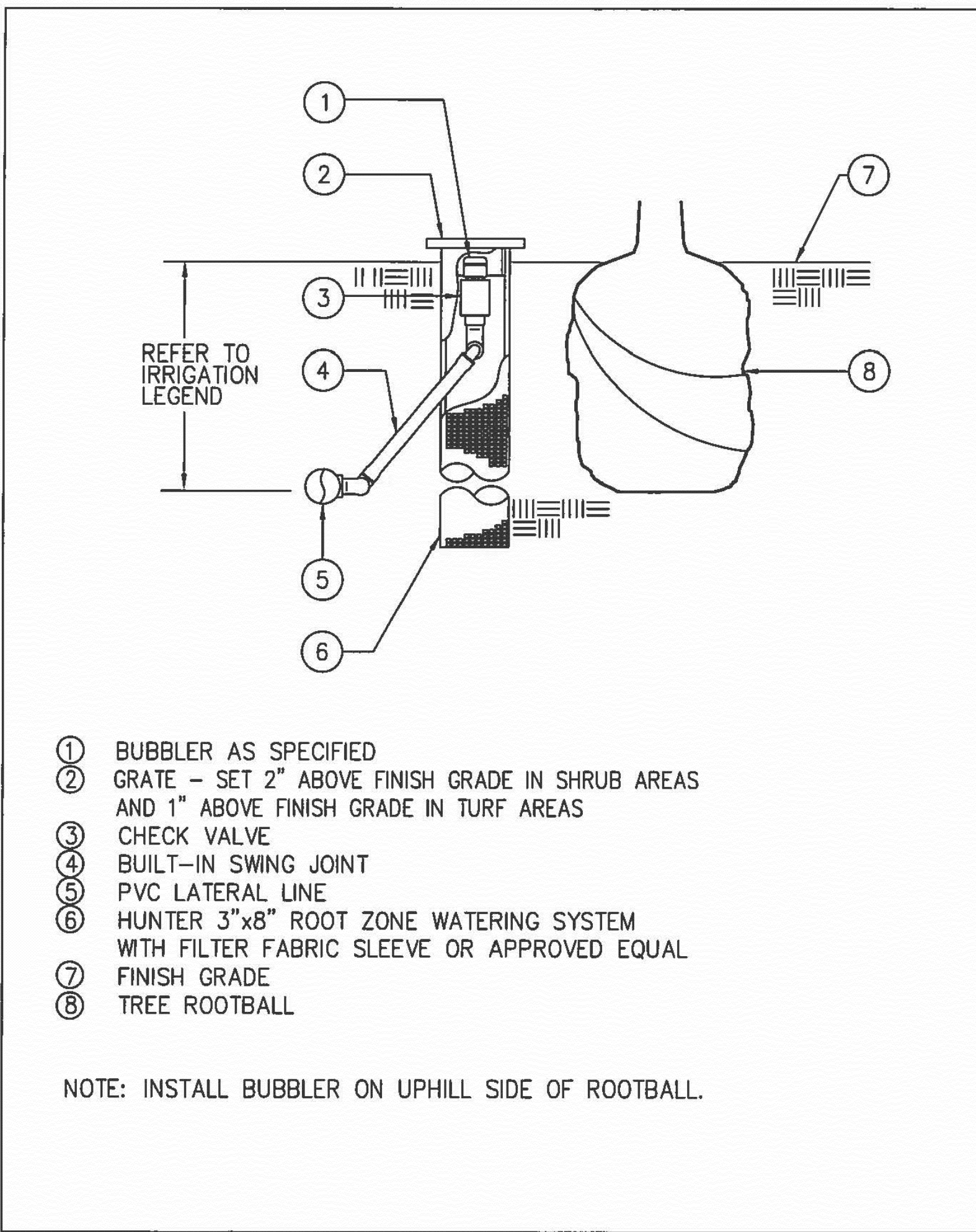
9 RECYCLED WATER SIGN NOT TO SCALE



6 WARNING TAG AT PIPE STABILIZER



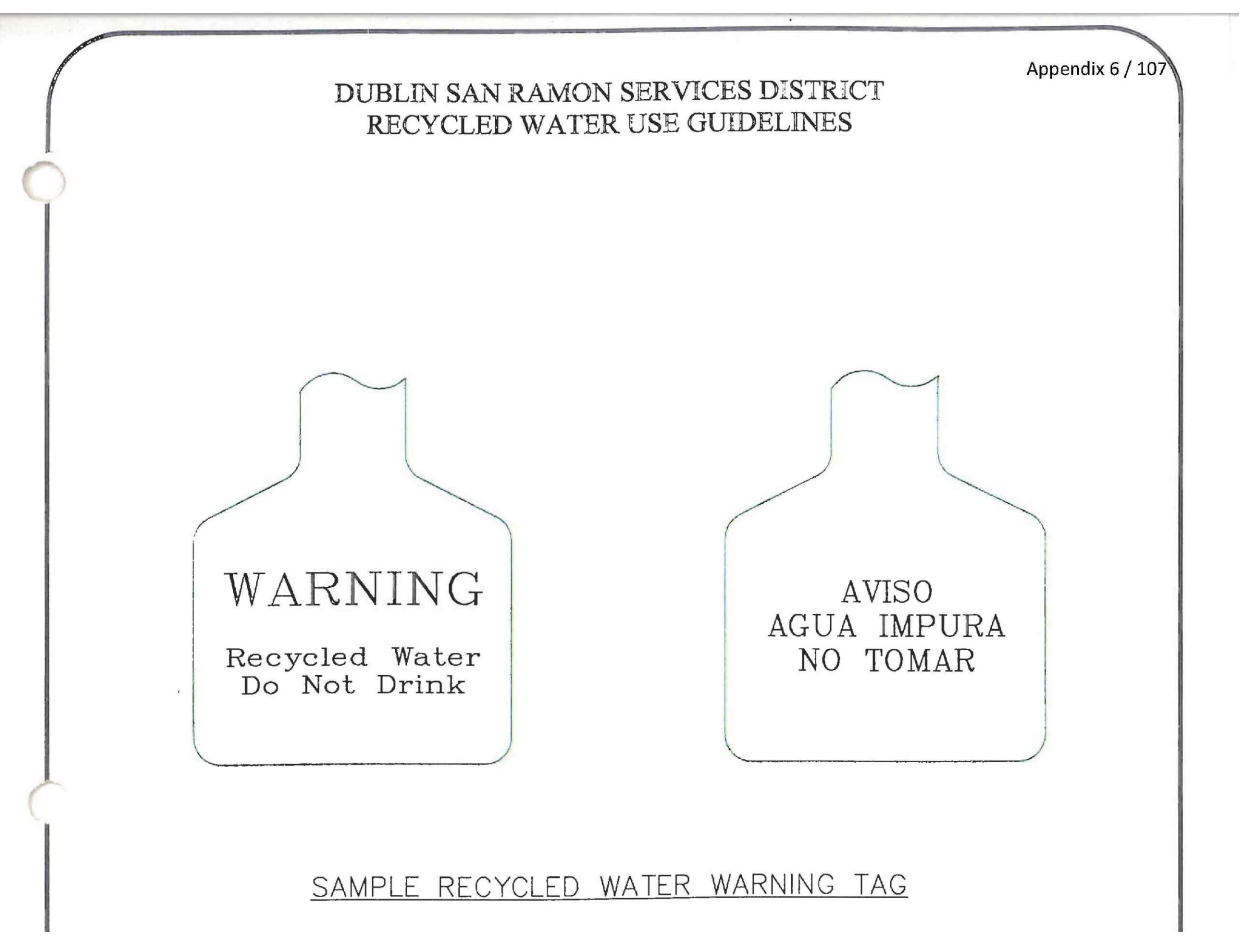
3 LOW VOLUME CONTROL ZONE ASSEMBLY NOT TO SCALE



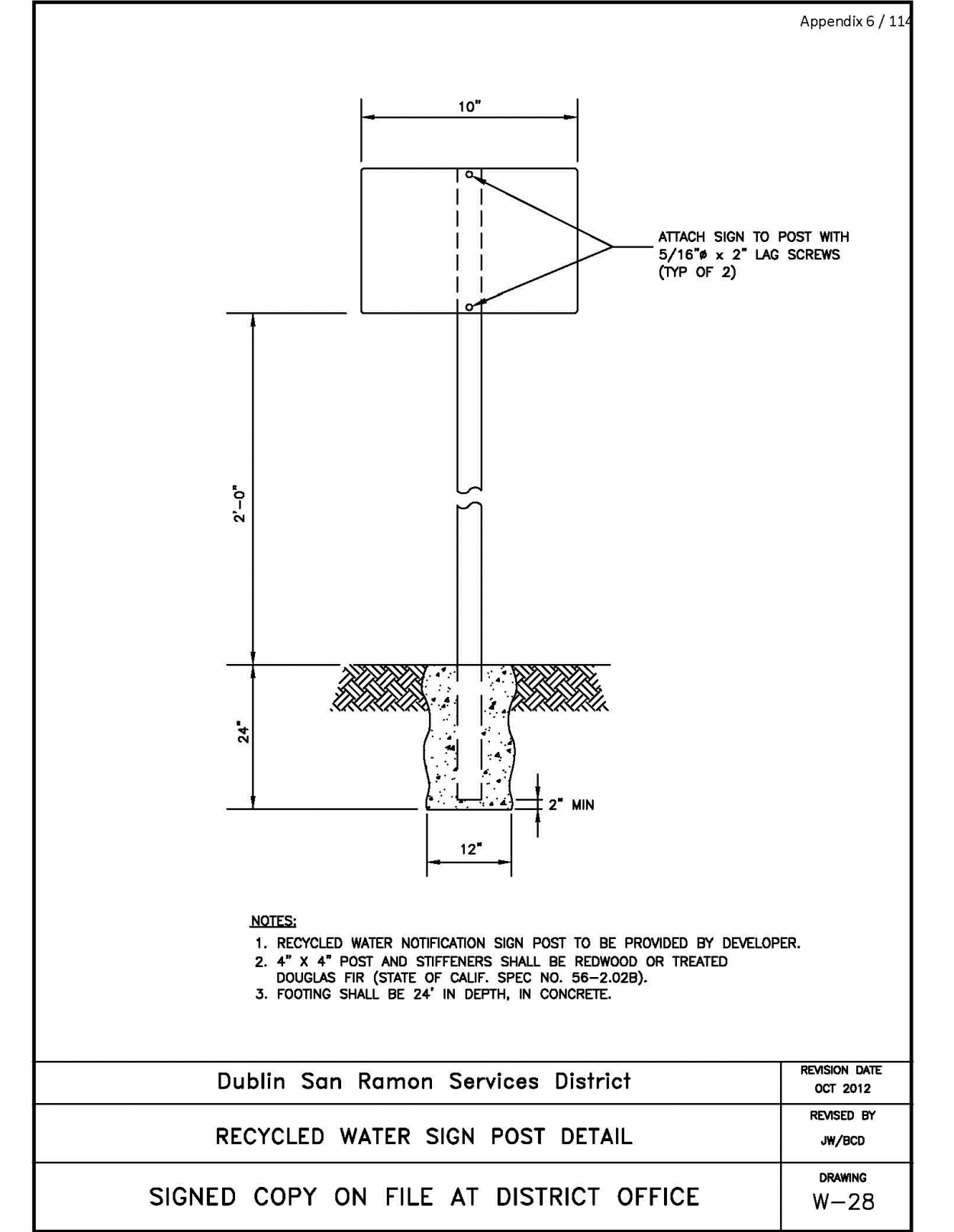
| TREE BUBBLER DETAIL | | |
|------------------------------|---------------------------|------------|
| Drawn by: SP/ER | Date: March 2016 | Scale: NTS |
| Checked by: Jeff Gault | Revisions | |
| Approved by: Brian P. Amador | No. Date App. Description | Drawing |
| CITY ENGINEER | | I-26 |
| Date: 3/17/16 | | |



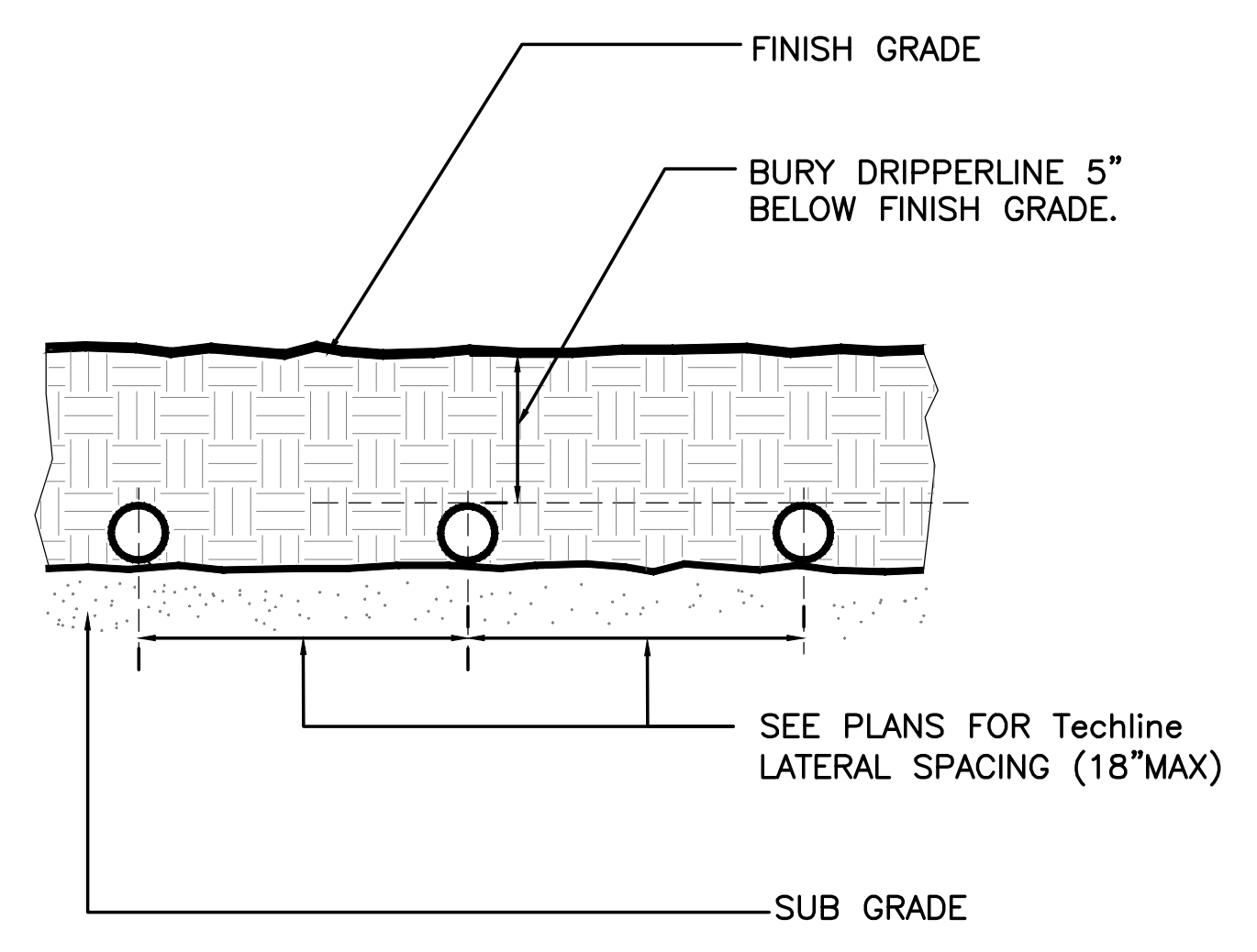
4 TECHLINE MANUAL LINE FLUSHING VALVE TISOV (PLUMBED TO TUBING) NOT TO SCALE



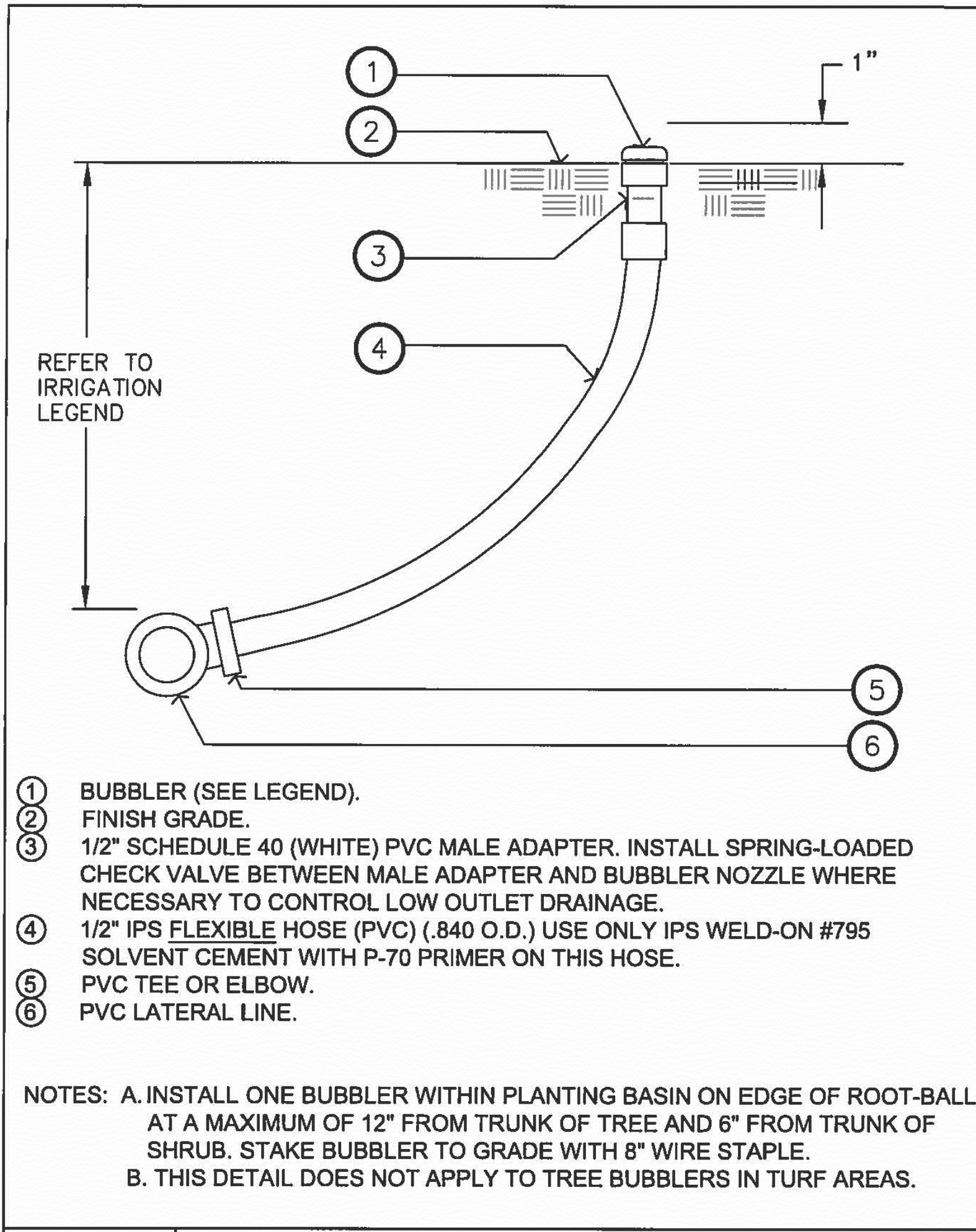
7 RECYCLE WATER TAG NOT TO SCALE



8 RECYCLED WATER SIGN POST NOT TO SCALE



6 TECHLINE SUBGRADE INSTALLATION NOT TO SCALE



| SHRUB & TREE BUBBLER DETAIL | | |
|------------------------------|---------------------------|------------|
| Drawn by: SP/ER | Date: March 2016 | Scale: NTS |
| Checked by: Jeff Gault | Revisions | |
| Approved by: Brian P. Amador | No. Date App. Description | Drawing |
| CITY ENGINEER | | I-25 |
| Date: 3/17/16 | | |

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PROJECT TITLE
CONTRA COSTA CCD D-4002 DVC SAN RAMON CAMPUS EXPANSION & RENOVATION

1690 Watermill Rd.
San Ramon, CA 94582

RECORD SET:
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ISSUE TITLE
INCREMENT 2

ISSUE DATE: 5/30/2019
NOLL & TAM JOB NUMBER: 21630

| REVISIONS | DATE | DESCRIPTION |
|-----------|------|-------------|
| | | |

SHEET TITLE
IRRIGATION DETAILS

SHEET NUMBER
L3.04.2

WATER EFFICIENT LANDSCAPE WORKSEET

| TO CALCULATE MAWA - Maximum Applied Water Allowance | |
|---|--------|
| ETo | 46.2 |
| LA | 3,001 |
| SLA | 487 |
| MAWA (Gallons) | 53,556 |
| MAWA (Inches per sq.ft.) | 28.6 |
| MAWA (Inches per DAY) | 0.08 |

Maximum Applied Water Allowance Equation:
 $MAWA = (ETo) (0.62) [(0.55 \times LA) + (0.45 \times SLA)]$

| TO CALCULATE ETWU - Estimated Total Water Use | |
|---|--------|
| ETo | 46.2 |
| PFXHA (see chart) | 987 |
| HA (same as LA) | 3,001 |
| IE (see chart) | 0.81 |
| SLA | 487 |
| ETWU (Gallons) | 48,853 |
| ETWU (Inches per sq.ft.) | 26.1 |
| ETWU (Inches per DAY) | 0.07 |

Estimate Total Water Use Equation:
 $ETWU = (ETo \times 0.62) [(PF \times HA) / IE] + SLA$

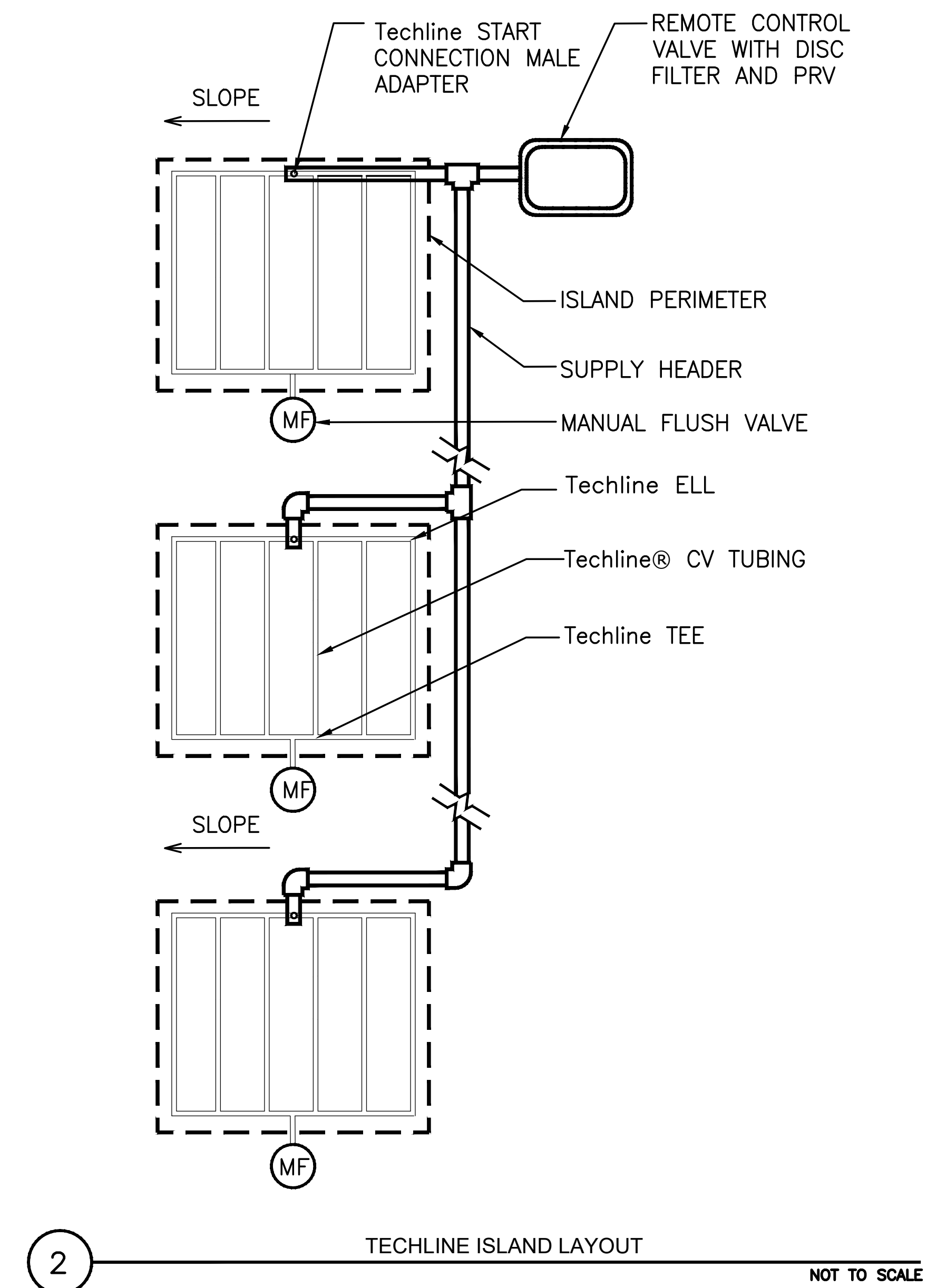
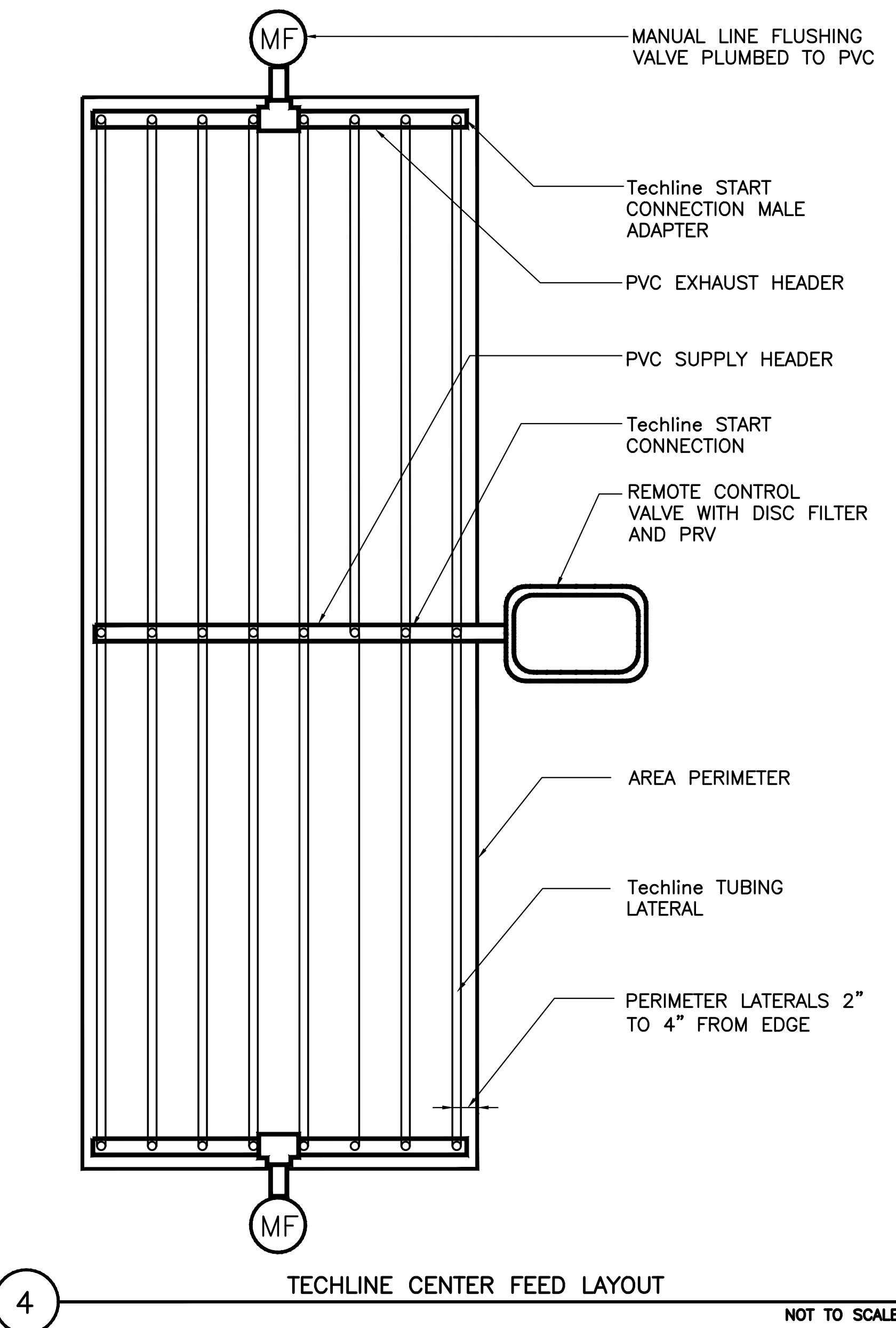
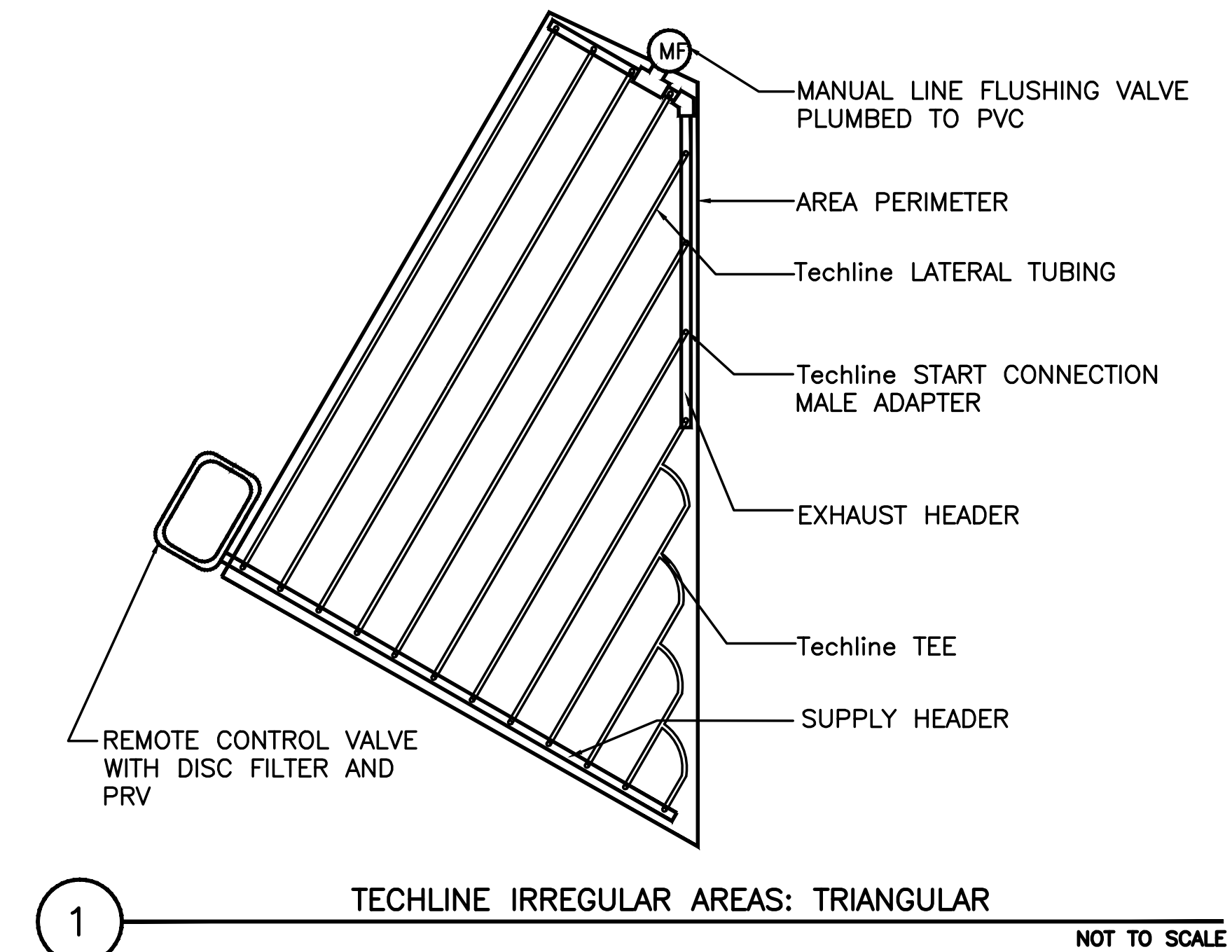
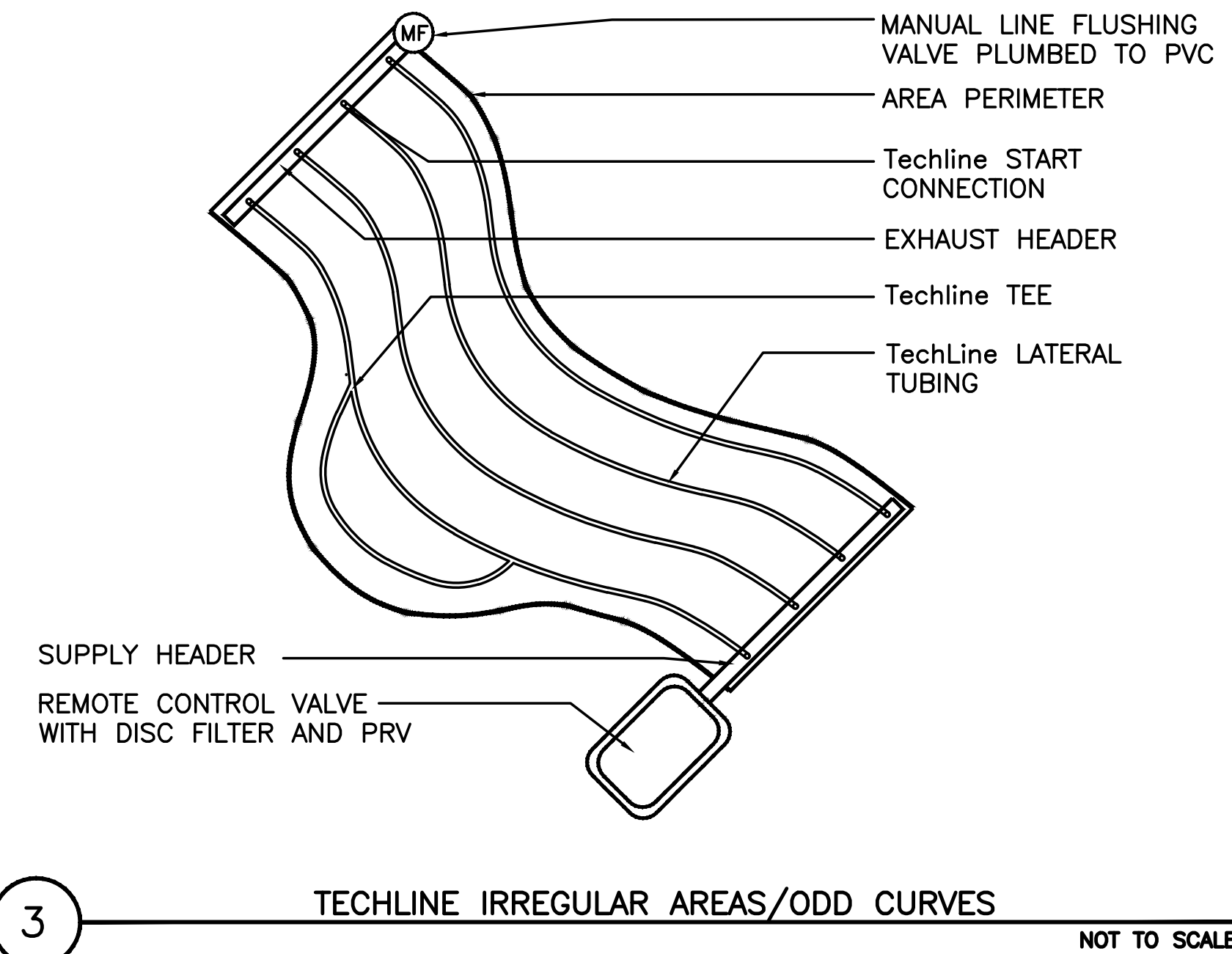
| To Determine Average System "IE" exceeds .71 | | | | | |
|--|------------------|-----------|-------|--------|---------------|
| H.Z. | Type | Sprinkler | HA | "IE" | Weighted Area |
| 1 | Drip(Subsurface) | | 1,487 | 0.81 | 1204.47 |
| 2 | Drip(Subsurface) | | 826 | 0.81 | 669.06 |
| 3 | Drip(Subsurface) | | 206 | 0.81 | 166.86 |
| 4 | | | | | 0 |
| 5 | | | | | 0 |
| 6 | | | | | 0 |
| | | | 2,519 | Totals | 2,040 |
| | | | | | 0.81 |

Average System IE (IE is a derivative of DU defined as
 $IE = DU \times IME$. Where IME= Irrigation Management Efficiency

| | |
|--------------------|--|
| Does ETWU Qualify? | Yes - ETWU Does Not Exceed Maximum Allowed |
|--------------------|--|

| DEFINITIONS | |
|-------------|--|
| Eto | Evapotranspiration |
| LA | Landscaped area |
| SLA | Special landscaped area WITHIN the landscaped area |
| P.F. | Plant water use factor- WUCLOS |
| H.A. | Hydro zone area = Irrigated area |
| I.E. | Irrigation efficiency. Must exceed 0.71. |

| To Determine Plant Factor with Multiple Hydro Zones | | | | | |
|---|--------|------|--------|---------------|-----|
| H.Z. | Type | P.F. | H.A. | Weighted P.F. | |
| 1 | MEDIUM | 0.4 | 1,487 | 594.8 | |
| 2 | MEDIUM | 0.4 | 826 | 330.4 | |
| 3 | LOW | 0.3 | 206 | 61.8 | |
| 4 | | | | 0 | |
| 5 | | | | 0 | |
| 6 | | | | 0 | |
| | | | Totals | 2519 | 987 |



APPROVALS

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INCREMENT 2

ISSUE DATE 5/30/2019

NOLL & TAM JOB NUMBER 21630

REVISIONS

| DATE | DESCRIPTION |
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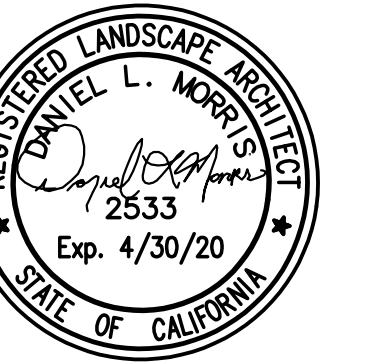
SHEET TITLE

IRRIGATION DETAILS

SHEET NUMBER

L3.05.2

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| REVISIONS | DATE | DESCRIPTION |
|-----------|------------|--------------------|
| 23 | 8/2/19 | INC 2-ADDENDUM 02 |
| 23 | 11/20/2020 | ASI 23 - PLANT REV |

EXISTING
ADMINISTRATION
BUILDING

EXIST. PLANTING TO REMAIN

EXIST. PLANTING TO REMAIN

EXIST. PLANTING TO REMAIN

EXIST. PLANTING TO REMAIN

NEW LIBRARY
LEARNING
RESOURCE
CENTER BUILDING

PLANTING AT TRASH ENCLOSURE
SEE DETAIL 2

PLANTING PLAN AT LLRC
SEE DETAIL 1

KEY MAP
N.T.S.

RFI #223 - FILTER TANK
LOCATION - GO FIELD
LOCATE TO AVOID UTILITY
CONFLICTS. FILTER LID
SUITABLE IN DIRT
AREA-VISIBLE FOR
MAINTENANCE.

EXISTING SHRUBS TO
REMAIN AND PROTECTED.

RESTORE PLANTING IMPACTED BY
NEW IMPROVEMENT. IMPORT TOP
SOIL AS NEEDED. MATCH TO
EXISTING SHRUBS.
VERIFY LIMIT OF WORK IN FIELD.
REFER TO RECORD DRAWINGS.

1 PLANTING PLAN AT LLRC

PLANT LEGEND

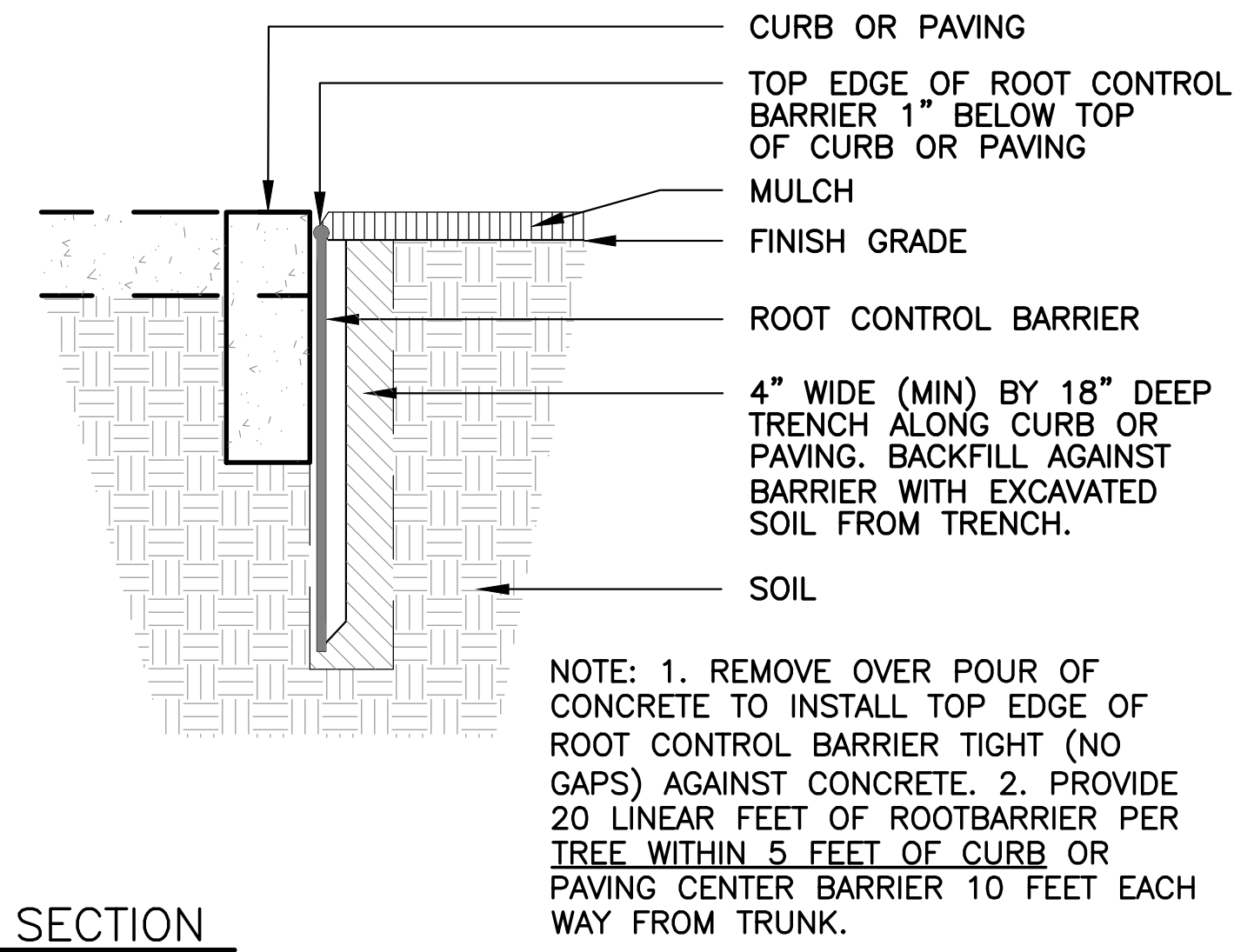
| BOTANICAL NAME | COMMON NAME | SIZE | WATER USE | REMARK |
|--------------------------------|----------------------|---------|-----------|----------|
| PLAZA TREES | | | | |
| TRISTANIA LAURINA 'ELEGANT' | ELEGANT WATER GUM | 24" BOX | LOW | STANDARD |
| CERCIS OCCIDENTALIS | WESTERN REDBUD | 24" BOX | VERY LOW | MULTI |
| LAGERSTROEMIA INDICA 'NATCHEZ' | NATCHEZ CRAPE MYRTLE | 24" BOX | LOW | STANDARD |

| BOTANICAL NAME | COMMON NAME | SIZE | SPACING | WATER USE | REMARK |
|-----------------------------------|------------------------------|--------|---------|-----------|--------|
| PLAZA SHRUBS | | | | | |
| ANIGOZANTHUS 'BUSH RANGER' | KANGAROO PAW 'BUSH RANGER' | 1 GAL | 30" | LOW | |
| BAMBUSA ALTRIPLEX 'ALPHONSE KARR' | ALPHONSE KARR BAMBOO | 15 GAL | 36" | LOW | |
| NANDINA DOMESTICA | HEAVENLY BAMBOO | 5 GAL | 36" | LOW | |
| NANDINA DOMESTICA 'GULF STREAM' | GULF STREAM HEAVENLY BAMBOO | 5 GAL | 36" | LOW | |
| PHORMIUM TENAX 'MARGARET JONES' | MARGARET JONES FLAX | 5 GAL | 36" | LOW | |
| PODOCARPUS MACROPHYLLUS 'MAKI' | SHRUBBY YEW PINE | 15 GAL | 42" | MEDIUM | |
| SANTOLINA CHAMAECYPARISSUS | LAVENDAR COTTON | 1 GAL | 24" | LOW | |
| TRASH ENCLOSURE AREA | | | | | |
| LIGUSTRUM JAPONICUM 'TEXANUM' | WAXLEAF PRIVET | 5 GAL | 48" | MEDIUM | |
| TRACHELOSIRERMUM | STAR JASMINE | 1 GAL | 30" | MEDIUM | |
| PHORMIUM 'PINK STRIPE' | PINK STRIKE NEW ZEALAND FLAX | 5 GAL | 48" | LOW | |
| BIORETENTION SHRUBS | | | | | |
| CAREX DIVULSA | BERKELEY SEDGE | 5 GAL | 24" | LOW | |
| CHONDRAPETALUM TECTORUM | SMALL CAPE RUSH | 5 GAL | 42" | LOW | |
| JUNCUS EFFUSUS | SOFT RUSH | 5 GAL | 24" | MEDIUM | |
| NATIVE PLANTS BY OTHERS | | | | | |

FOR PLANTING NOTES & DETAILS, SEE L4.02.2

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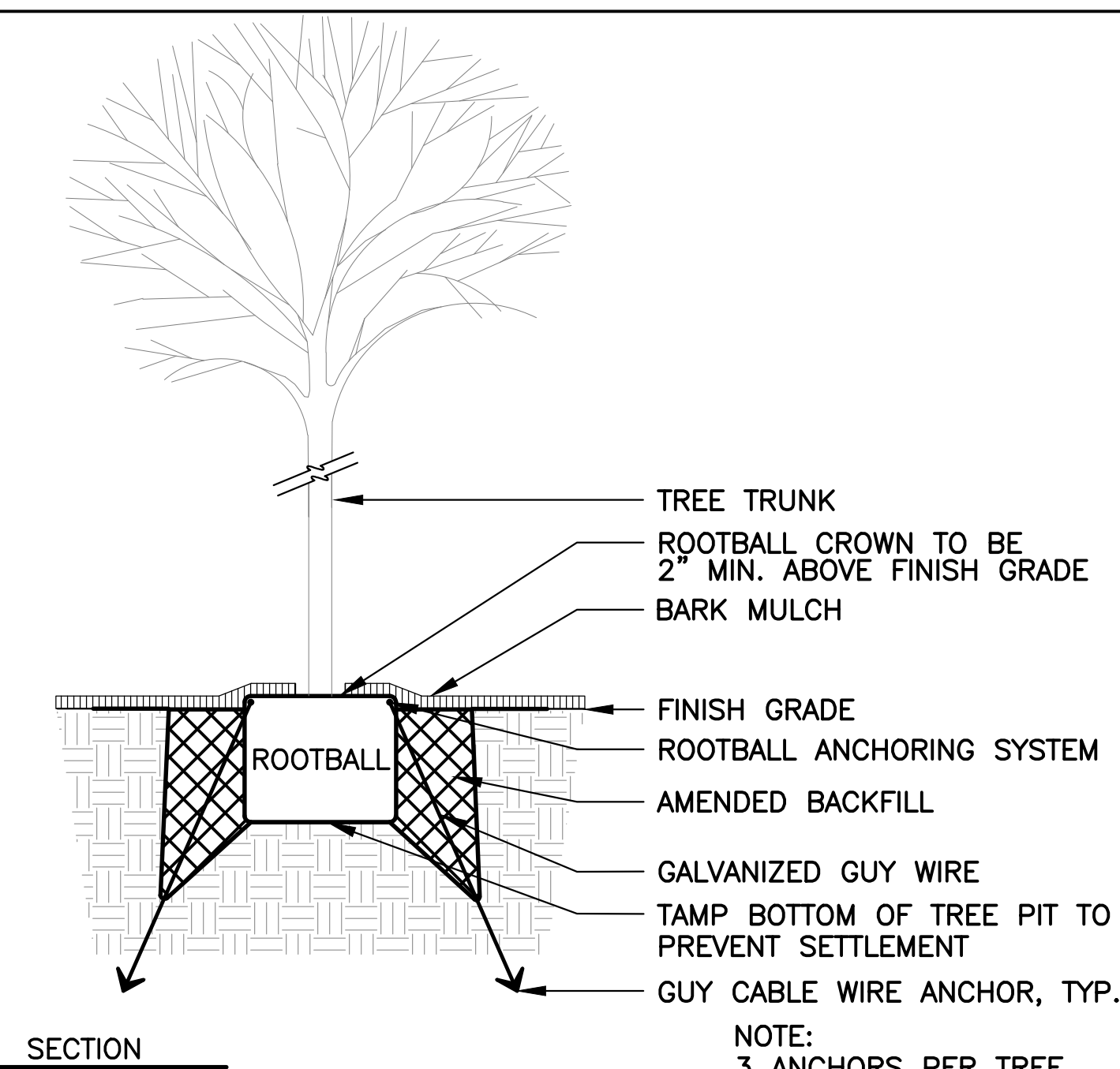
1/28/2018 6:03:13 PM C:\Users\lanj\redy\Documents\Revit Local\DCSR Expansion_Central 2018_Lanj_redy.rvt



SECTION
1" = 1'-0"

D ROOT CONTROL BARRIER - LINEAR

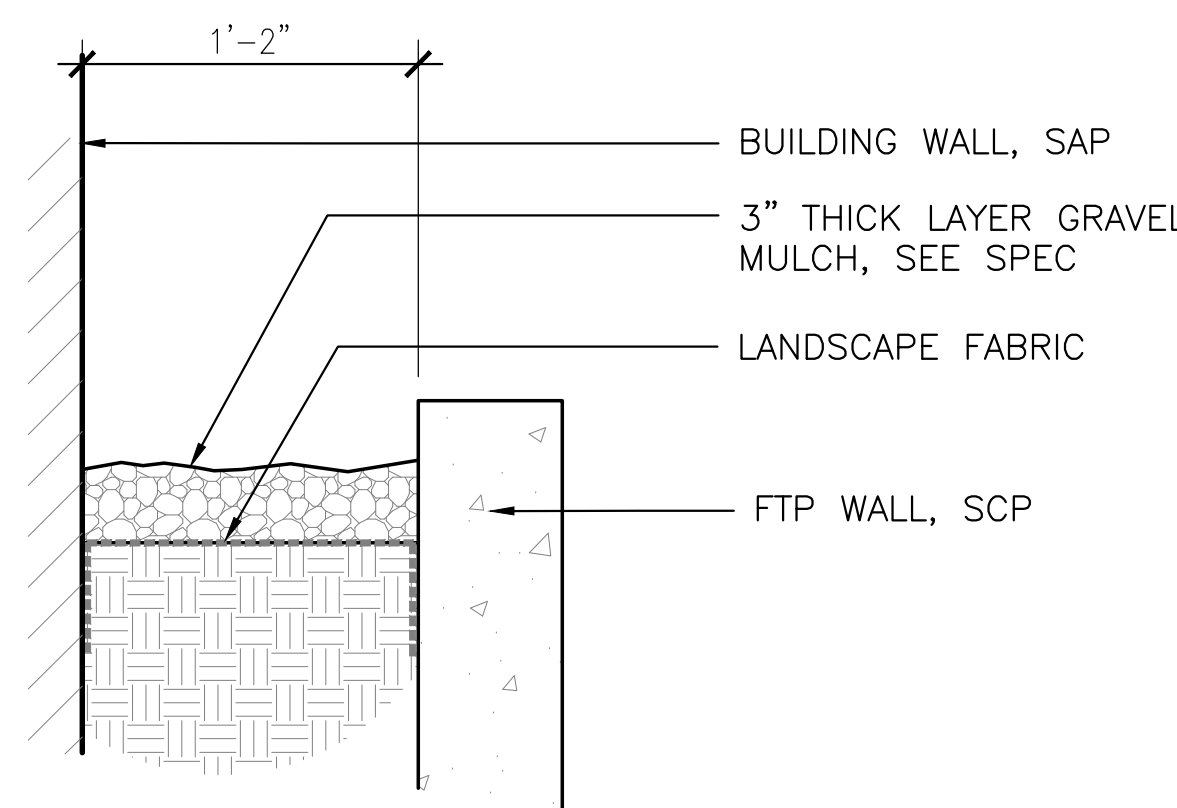
P_RTBRAR1



SECTION
1/2" = 1'-0"

A TREE PLANTING

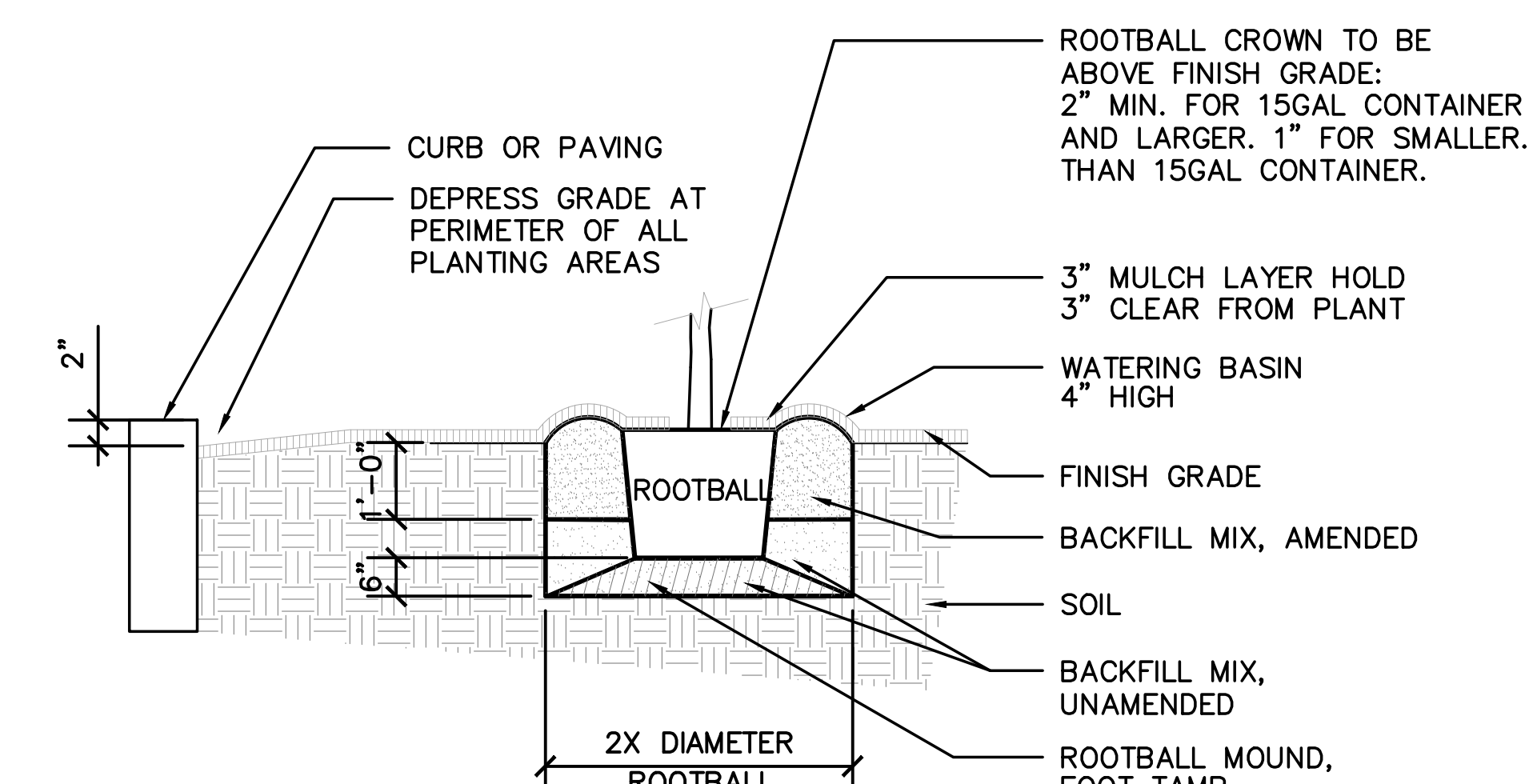
L-DT-TREE PLANTING AT SEAT CUBE



SECTION
3/2" = 1'-0"

E GRAVEL MULCH

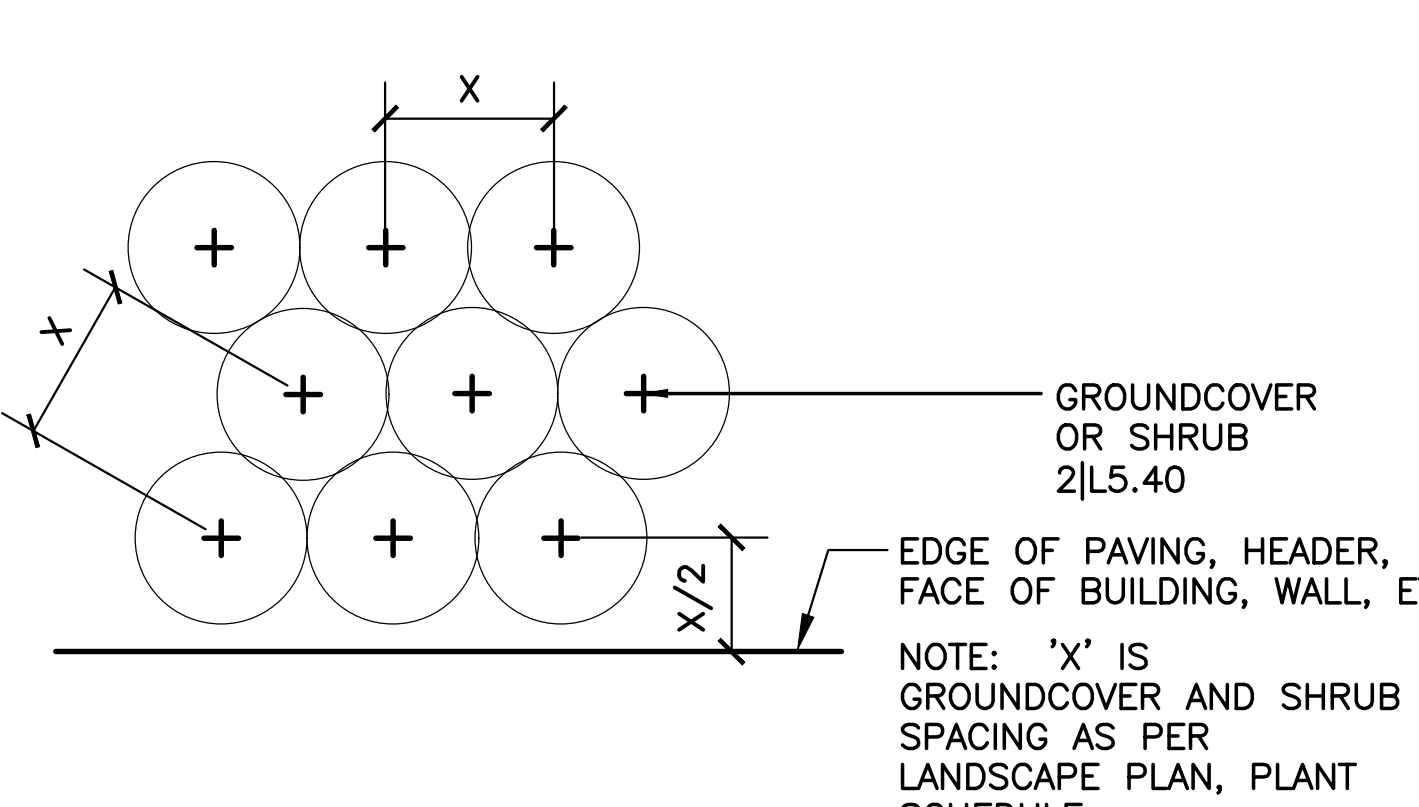
P_GRAVEL MULCH



SECTION
1/2" = 1'-0"

B SHRUB PLANTING

DTL-SHRUB PLANTING 2



C GROUND COVER AND SHRUB SPACING

L-DT-SHRUB PLANTING

APPROVALS

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INCREMENT 2

ISSUE DATE 5/30/2019

NOLL & TAM JOB NUMBER 21630

REVISIONS

| DATE | DESCRIPTION |
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| | |

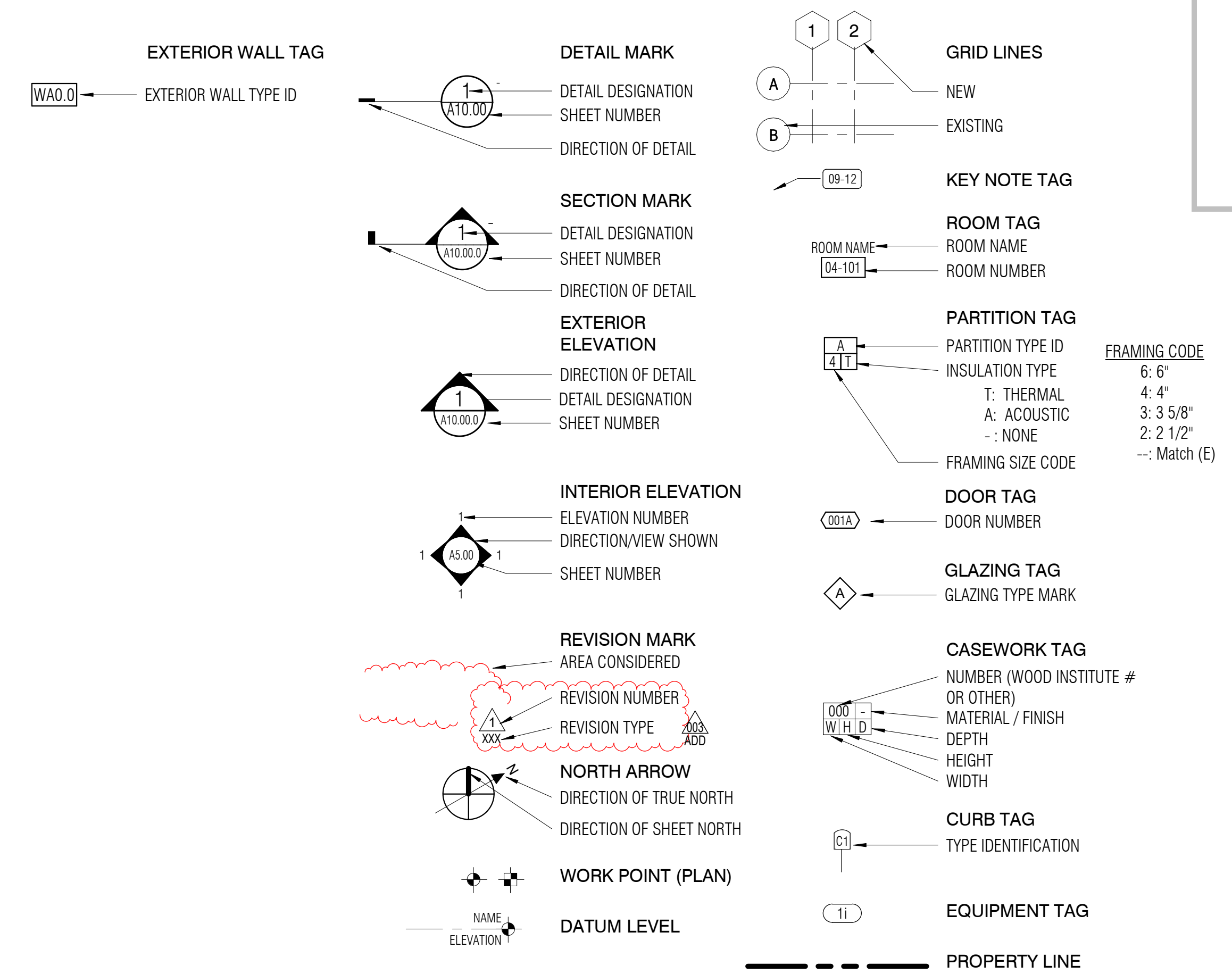
SHEET TITLE
PLANTING NOTES & DETAILS

SHEET NUMBER

L4.02.2

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SYMBOLS LEGEND

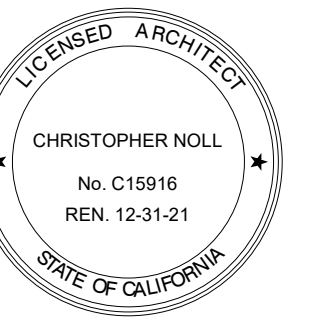


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ABBREVIATIONS

| | | | |
|---|---|---|----------------------------------|
| & AND | EA EACH | JAN JANITOR | SASF SELF ADHERING SHEET |
| (E) EXISTING | EJ EXPANSION JOINT | JBOX JUNCTION BOX | FLASHING |
| (N) NEW | ELEC ELECTRICAL | JST JOIST | SASM SELF ADHERING SHEET |
| @ AT | ELEV ELEVATION/ELEVATOR | JT JOINT | MEMBRANE |
| AB ANCHOR BOLT | ENLG ENLARGED | LAM LAMINATE | SC SOLID CORE |
| AC ASPHALTIC CONCRETE | EO EDGE OF | LAV LAVATORY | SCD SEE CIVIL DRAWINGS |
| ACC ACCESS | EOS EDGE OF SLAB | LB LAG BOLT | SCHED SCHEDULE |
| ACQUS ACOUSTICAL | EP ELECTRICAL PANEL | LF LINEAR FEET | SE STRUCTURAL ENGINEER |
| ACT ACOUSTIC CEILING TILE | EQ EQUAL | LKR LOCKER | SEC SECTION |
| AD AREA DRAIN | EQUIP EQUIPMENT | LT LIGHT | SED SEE ELECTRICAL DRAWINGS |
| ADDL ADDITIONAL | EWIC ELECTRIC WATER COOLER | MAS MASONRY | SF SUPPLY FAN |
| ADJ ADJACENT/ADJUSTABLE | EXH EXHAUST | MATL MATERIAL | SFAD SEE FIRE ALARM DRAWINGS |
| AESS ARCHITECTURAL EXPOSED STRUCTURAL STEEL | EXP EXPANSION | MAX MAXIMUM | SFSD SEE FIRE SPRINKLER DRAWINGS |
| AFF ABOVE FINISHED FLOOR | EXT EXTERIOR | MB MACHINE BOLT | SH SINGLE HUNG |
| AGG AGGREGATE | FA FIRE ALARM | MECH MECHANICAL | SHT SHEET |
| ALT ALTERNATE | FD FLOOR DRAIN | MFR MANUFACTURER | SHTG SHEATHING |
| ALUM ALUMINUM | FDN FOUNDATION | MH MANHOLE | SIM SIMILAR |
| ANOD ANODIZED | FE FIRE EXTINGUISHER | MIN MINIMUM | SLD SEE LANDSCAPE DRAWINGS |
| APPROX APPROXIMATE | FEC FIRE EXTINGUISHER CABINET | MISC MISCELLANEOUS | SMD SEE MECHANICAL DRAWINGS |
| AV AUDIO VISUAL | FF FACTORY FINISH | MTD MOUNTED | SOG SLAB ON GRADE |
| BD BOARD | FHC FIRE HOSE CABINET | MTL METAL | SP SPACE |
| BLDG BUILDING | FIN FINISH | MUL MULLION | SPA SANDWICH PANEL ASSEMBLY |
| BLK BLOCK | FIN FLR FINISH FLOOR | N NORTH | SPD SEE PLUMBING DRAWINGS |
| BLKG BLOCKING | FIXT FIXTURE | NA NOT APPLICABLE | SPEC SPECIFICATION |
| BM BEAM | FLR FLOOR | NIC NOT IN CONTRACT | SQ SQUARE |
| BO BOTTOM OF | FLRG FLOORING | NO NUMBER | SS STAINLESS STEEL |
| BOT BOTTOM | FLUOR FLUORESCENT | NOM NOMINAL | SSD SEE STRUCTURAL DRAWINGS |
| BUR BUILT UP ROOF | FOC FACE OF CONCRETE | NTS NOT TO SCALE | SSGD SEE SIGNAGE DRAWINGS |
| CAB CABINET | FOF FACE OF FINISH | O/ OVER | STK SERVICE SINK |
| CB CARRIAGE BOLT | FOS FACE OF STUD | OA OVERALL | SSTL STAINLESS STEEL |
| CE CIVIL ENGINEER | FR FIRE RESISTANT/FIRE RETARDANT | OC ON CENTER | STD STANDARD |
| CEM CEMENT/CEMENTITIOUS | FRP FIBERGLASS REINFORCED PANEL | OCC OCCUPANT | STED SEE TELECOM DRAWINGS |
| CER CERAMIC | FRT FIRE RETARDANT TREATED FRAMING | OD OUTSIDE DIAMETER/OVERFLOW DRAIN | STL STEEL |
| CFMF COLD FORMED METAL FRAMING | FSD FIRE SEPARATION DISTANCE | OF OUTSIDE FACE | STOR STORAGE |
| CJ CAST IRON | FSP FIBERGLASS SANDWICH PANEL | OFCI OWNER FURNISHED CONTRACTOR INSTALLED | STRUC STRUCTURAL |
| CI CONTROL JOINT | FT FOOT/FEET | OFD OVERFLOW DRAIN | STRUC STRUCTURAL |
| CLG CEILING | FTG FOOTING | OFF OFFICE | SUSP SUSPENDED |
| CLKG CAULKING | FURN FURNITURE | OP OPERABLE | SYS SYSTEM |
| CLO CLOSET | FX FIXED | OPNG OPENING | T TREAD |
| CLR CLEAR | GA GAUGE | OPP OPERABLE | T&G TONGUE & GROOVE |
| CMU CONCRETE MASONRY UNIT | GALV GALVANIZED | OPP HD OPPOSITE HAND | TBD TO BE DETERMINED |
| CNTR COUNTER | GB GRAB BAR | PA PUBLIC ADDRESS | TEL TELEPHONE |
| CO CLEAN OUT | GC GENERAL CONTRACTOR | PCP PORTLAND CEMENT PLASTER | TEMP TEMPERED |
| COL COLUMN | GFI GROUND FAULT INTERRUPT | PARTN PARTITION | THK THICK/THICKNESS |
| CONC CONCRETE | GI GALVANIZED IRON | PL PLATE | THRESH THRESHOLD |
| CONN CONNECTION | GL GLASS/GLAZING | PLAM PLASTIC LAMINATE | TJI TRUSS JOIST |
| CONT CONTINUOUS | GLAM GLUE LAMINATED | PLAS PLASTIC | TO TOP OF |
| CONTR CONTRACTOR | GR GRADE | PLY PLYWOOD | TOC TOP OF CONCRETE/CURB |
| CORR CORRIDOR | GSM GALVANIZED SHEET METAL | PR PAIR | TOP TOP OF PAVING |
| CPT CARPET | GWB GYPSUM WALL BOARD | PROJ PROJECT/PROJECTOR | TOS TOP OF STEEL |
| CSMT CASEMENT | GYP GYPSUM | PT POINT/PRESSURE TREATED | TOW TOP OF WALL |
| CTR CENTER | H HIGH | PTD PAINTED | TS TUBE STEEL |
| CTSK COUNTERSINK | HB HOSE BIB | PVC POLYVINYLCHLORIDE | TYP TYPICAL |
| D DEPTH | HC HOLLOW CORE | QTY QUANTITY | UON UNLESS OTHERWISE NOTED |
| DBL DOUBLE | HD HEAD | R RISER | UR URINAL |
| DEMO DEMOLITION | HDR HEADER | RAD RADIUS | VCT VENTILATION |
| DEPT DEPARTMENT | HDW HARDWARE | RD ROOF DRAIN | VERT VERTICAL |
| DF DOUGLAS FIR/DRINKING FOUNTAIN | HDWD HARDWOOD | REF REFERENCE | VEST VESTIBULE |
| DH DOUBLE HUNG | HM HOLLOW METAL | REFR REFRIGERATOR | VIF VERIFY IN FIELD |
| DIA DIAMETER | HORIZ HORIZONTAL | REG REGISTER | W WEST/WIDTH |
| DIM DIMENSION | HR HOUR | REINF REINFORCE/REINFORCING | W/ WITH |
| DISP DISPOSAL | HT HEIGHT | REQD REQUIRED | W/O WITHOUT |
| DN DOWN | HVAC HEATING VENTILATION & AIR CONDITIONING | REQT REQUIREMENTS | WC WATER CLOSET |
| DR DOOR | ID INSIDE DIAMETER | RES RESILIENT | WD WOOD |
| DS DOWNSPOUT | IF INSIDE FACE | REV REVISION | WH WATER HEATER |
| DTL DETAIL | INC INCANDESCENT | RM ROOM | WIN WINDOW |
| DWG DRAWING | INCL INCLUDE/INCLUDING | RO ROUGH OPENING | WO WHERE OCCURS |
| DWR DRAWER | INSL INSULATION | RWL RAIN WATER LEADER | WP WORK POINT |
| E EAST | INT INTERIOR | S SOUTH | WR WATER RESISTANT |
| | | | WRB WEATHER RESISTANT BARRIER |
| | | | WT WEIGHT |

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CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION &
RENOVATION**

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INCREMENT 2

ISSUE DATE **5/30/2019**

NOLL & TAM JOB NUMBER **21630**

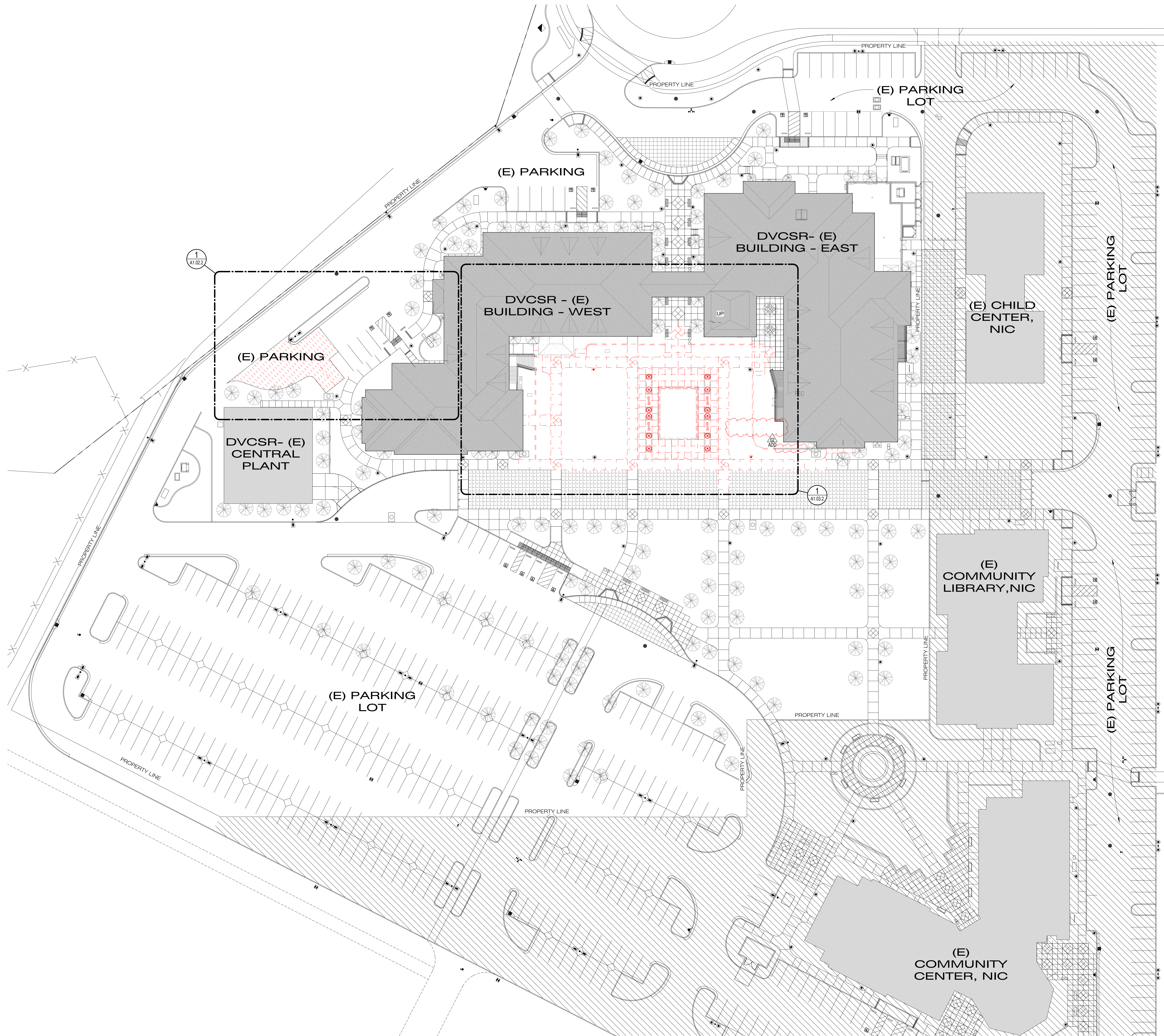
| REVISIONS | DATE | DESCRIPTION |
|-----------|---------|----------------|
| 1 | 1/30/19 | BID ADDENDUM 3 |

SHEET TITLE

**ABBREVIATIONS /
SYMBOLS**

SHEET NUMBER

A0.01.0



SHEET NOTES

1. EXISTING SITE IMPROVEMENTS ARE PART DSA APPLICATION # 01-106062. EXISTING BUILDINGS ARE UNDER DSA APPLICATION # 01-105719
2. ALL ACCESSIBILITY UPGRADES FOR THE SITE ARE INCLUDED WITH INCREMENT 1 WORK. UON. FOR INCREMENT 1 ACCESS COMPLIANCE INFORMATION, SEE DSA APPLICATION #01-117630
3. SEE CIVIL, ELECTRICAL, FIRE, AND LANDSCAPE DRAWINGS FOR IMPROVEMENTS THAT AFFECT EXISTING CONDITIONS AND WILL REQUIRE PATCHING AND REPAIRING NOT SPECIFICALLY SHOWN OR NOTED THE DEMOLITION PLAN AND ENLARGED DEMOLITION PLAN
4. PROVIDE PROTECTION OF EXISTING PLANTS THAT ARE TO REMAIN
5. REFER TO INCREMENT 1 DSA # 01-117630 FOR MODIFICATIONS AT ACCESSIBLE PARKING AREAS INCLUDING STRIPING, SIGNAGE, AND DETECTABLE WARNING

SITE DEMOLITION LEGEND

- DEMO (E) SITE OBJECT (SHOWN DASHED), UON
- (E) BUILDING FOOTPRINT
- AREA OF VEHICULAR PAVING TO BE REMOVED FOR TRASH TRUCK ACCESS AND NEW TRASH ENCLOSURE, SCD
- SITE AREA NOT IN SCOPE
- (E) FIRE ACCESS LANE - TURF PAVERS

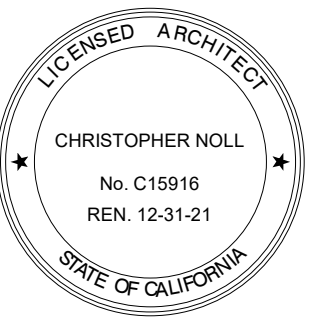
RFI #6 - IN THE FIRE LANES THERE IS EXISTING TURF BLOCK GRASS PAVE 2'. PER GENERAL NOTE 6 ON C2.0, THE CONTRACTOR RESPONSIBLE FOR REPLACEMENT OF ALL TURF BLOCK THAT ARE REMOVED FOR NEW IMPROVEMENTS. ALSO PER NOTE 5 CONTRACTOR TO RESTORE FEATURES WHICH ARE DAMAGED TO PREVIOUS CONDITION.

APPROVALS

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PROJECT TITLE

**CONTRA COSTA
CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION &
RENOVATION**

1690 Watermill Rd.
San Ramon, CA 94582

RECORD SET:

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ISSUE TITLE

INCREMENT 2

ISSUE DATE 5/30/2019

NOLL & TAM JOB NUMBER 21630

| REVISIONS | DATE | DESCRIPTION |
|-----------|--------|---------------------|
| 1 | 8/2/19 | INC 2 - ADDENDUM 02 |

SHEET TITLE

**OVERALL SITE
DEMOLITION PLAN**

SHEET NUMBER

A1.01.2

1 SITE PLAN - OVERALL DEMOLITION PLAN - LLRC
A1.01.2 1" = 30'-0"

9/11/2023 3:31:25 PM C:\Users\pham.dung@nollandt.com\Documents\Revit\Locales\DVCSR Expansion_Central_2021_pham.dung@nollandt.com.rvt

KEY NOTES

| Key Value | Keynote Text |
|-----------|--|
| 02-38 | (E) LIGHT POLE TO REMAIN |
| 02-116 | (E) WATER METER & BACKFLOW PREVENTER |
| 22-01 | NEW 750 GALLON GREASE INTERCEPTOR, SPD & SCD |
| 32-04 | RESTORE PLANTING IMPACTED BY NEW ABOVE & BELOW-GRADE IMPROVEMENTS, SLD |
| 32-08 | EXTEND (E) PLANTING AREA, SLD |

| Key Value | Keynote Text |
|-----------|--|
| 32-18 | TRASH ENCLOSURE WITH CMU WALLS AND STEEL FRAMED CORRUGATED METAL ROOF |
| 32-19 | RESTRIPE AS REQUIRED ADJACENT TO TRASH ENCLOSURE FOR AREAS AFFECTED BY WORK. LAYOUT OF STALLS TO REMAIN. |
| 32-24 | (E) HARDSCAPE AND LANDSCAPE TO REMAIN. PATCH & REPAIR IN-KIND THE EXISTING SITE PAVING SECTION AND SITE LANDSCAPE REQUIRED FOR INSTALLATION OF NEW UNDERGROUND UTILITIES. SED & SCD. |

SITE LEGEND

- DEMO (E) SITE OBJECT (SHOWN DASHED), UON
- (E) BUILDING FOOTPRINT
- AREA OF VEHICULAR PAVING TO BE REMOVED FOR TRASH TRUCK ACCESS AND NEW TRASH ENCLOSURE, SCD
- SITE AREA NOT IN SCOPE
- (E) FIRE ACCESS LANE - TURF PAVERS REFER TO SITE PLAN FOR EXTENT OF WORK AND REPLACEMENT
- (N) PAVING, SCD, SLD

SHEET NOTES

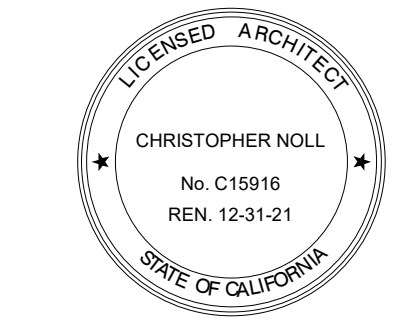
1. EXISTING SITE IMPROVEMENTS ARE PART DSA APPLICATION # 01-106062. EXISTING BUILDINGS ARE UNDER DSA APPLICATION # 01-105719
2. ALL ACCESSIBILITY UPGRADES FOR THE SITE ARE INCLUDED WITH INCREMENT 1 WORK. UON. FOR INCREMENT 1 ACCESS COMPLIANCE INFORMATION, SEE DSA APPLICATION # 01-117630
3. SEE CIVIL, ELECTRICAL, FIRE, AND LANDSCAPE DRAWINGS FOR IMPROVEMENTS THAT AFFECT EXISTING CONDITIONS AND WILL REQUIRE PATCHING AND REPAIRING NOT SPECIFICALLY SHOWN OR NOTED THE DEMOLITION PLAN AND ENLARGED DEMOLITION PLAN
4. PROVIDE PROTECTION OF EXISTING PLANTS THAT ARE TO REMAIN. REFER TO INCREMENT 1 DSA # 01-117630 FOR MODIFICATIONS AT ACCESSIBLE PARKING AREAS INCLUDING STRIPING, SIGNAGE, AND DETECTABLE WARNING

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PROJECT TITLE

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ISSUE TITLE
INCREMENT 2

ISSUE DATE 5/30/2019

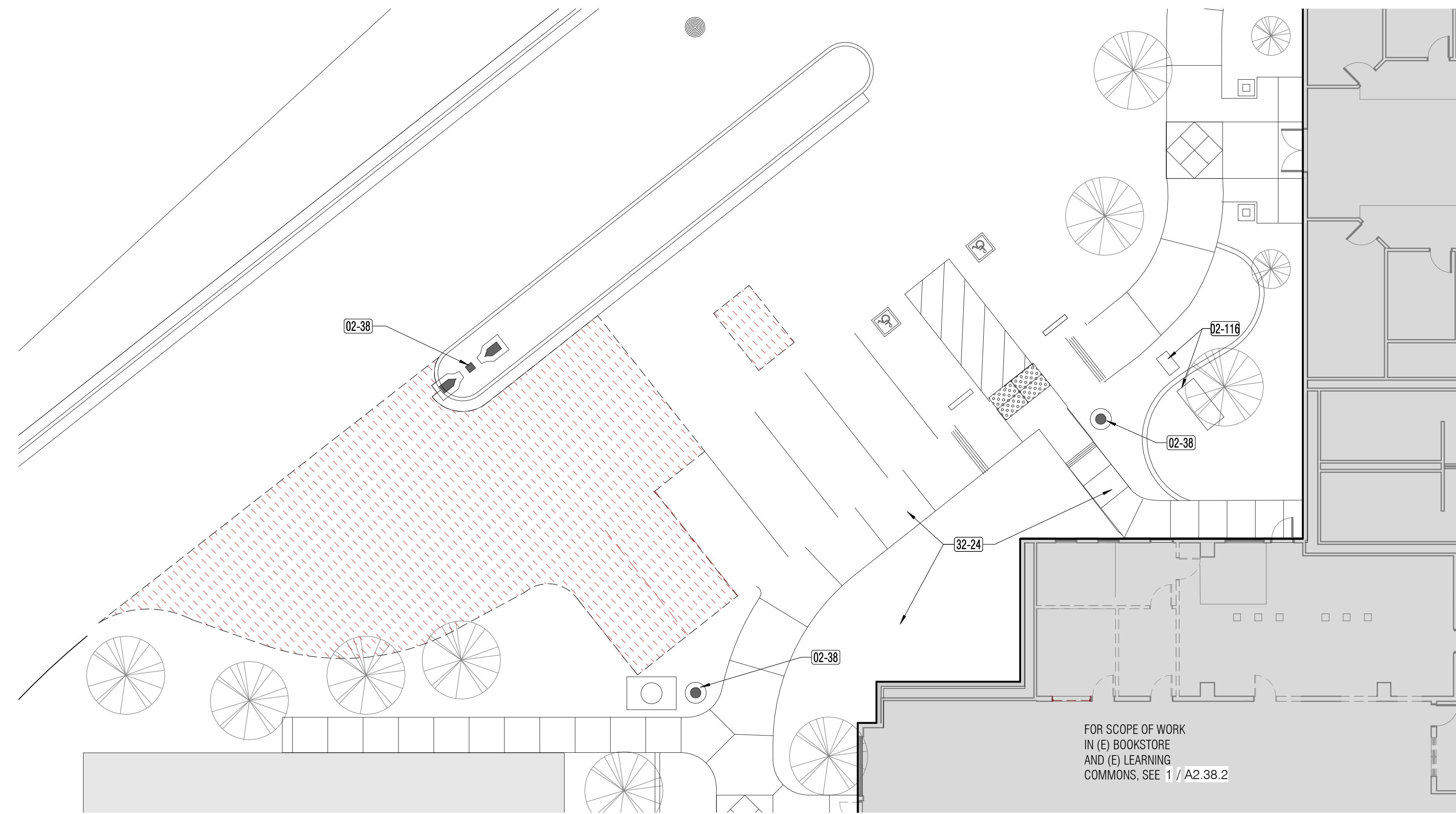
NOLL & TAM JOB NUMBER 21630

REVISIONS
DATE DESCRIPTION

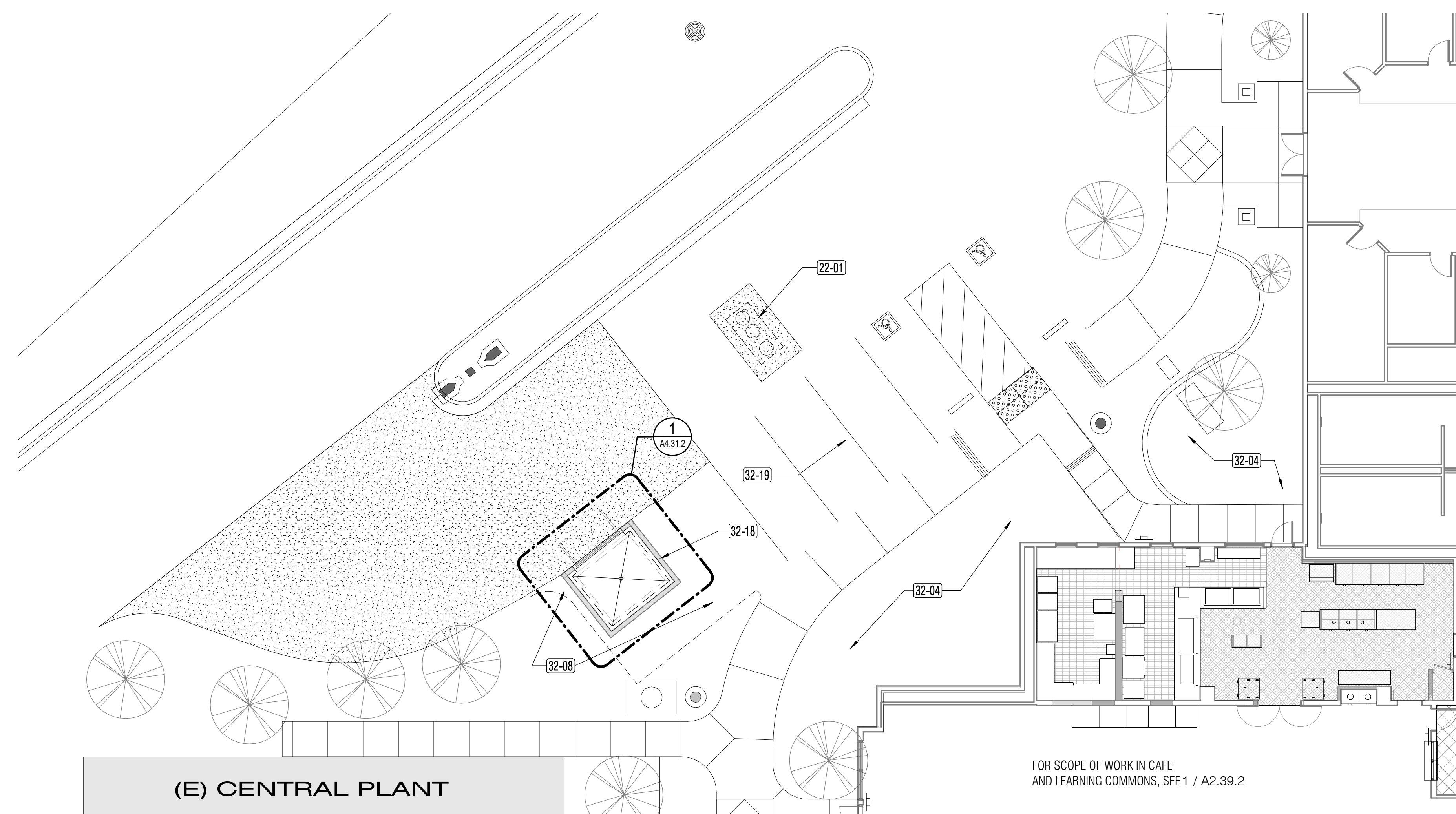
SHEET TITLE
**ENLARGED DEMO AND
SITE PLAN @ CAFE**

SHEET NUMBER

A1.02.2



1 ENLARGED SITE DEMOLITION PLAN @ CAFE
A1.02.2 3/32" = 1'-0"



2 ENLARGED SITE PLAN @ CAFE
A1.02.2 3/32" = 1'-0"

KEY NOTES

| Key Value | Keynote Text |
|-----------|---|
| 02-05 | REMOVE & SALVAGE (E) BIKE RACK FOR RE-USE. SLD |
| 02-38 | (E) LIGHT POLE TO REMAIN |
| 02-80 | REMOVE AND SALVAGE (E) LIGHT POLE FOR RE-INSTALLATION. SEE SITE PLAN FOR NEW LOCATION. SED AND SLD |
| 31-01 | REMOVE EXISTING CONCRETE WALK, SLD |
| 31-02 | REMOVE EXISTING LAWN & VEGETATION. MODIFY IRRIGATION & UNDERGROUND UTILITIES AS REQUIRED. SCD, SLD, SED. PROVIDE SITE DEMOLITION IN PREPARATION FOR (N) BUILDING & IMPROVEMENTS |
| 31-03 | REMOVE EXISTING PLANTER CURB, VEGETATION, AND TREES |
| 31-04 | REMOVE EXISTING BORDER, SLD |

| Key Value | Keynote Text |
|-----------|---|
| 31-05 | EXISTING FIRE LANE. TO REMAIN. SCD, SMD, SED, AND STED FOR (N) UTILITY WORK IN THIS ZONE. PATCH & REPAIR AS REQUIRED FOR IMPROVEMENTS. SEE CIVIL DWG FOR TYP PAVING SECTION |
| 32-01 | REMOVE AND SALVAGE EXISTING EXTERIOR METAL BENCH AND RETURN TO SCHOOL DISTRICT |
| 32-02 | REMOVE (E) FOUNTAIN AND RELATED SITE FOUNTAIN PIPING BACK TO PUMP ROOM IN (E) EAST BUILDING. CAP INSIDE ROOM. |
| 32-03 | REMOVE LINEAR DRAIN @ FOUNTAIN. ALL SIDES |
| 32-07 | EXISTING CONCRETE WALK TO REMAIN |

SITE DEMOLITION LEGEND

- DEMO (E) SITE OBJECT (SHOWN DASHED), UON
- (E) BUILDING FOOTPRINT
- AREA OF VEHICULAR PAVING TO BE REMOVED FOR TRASH TRUCK ACCESS AND NEW TRASH ENCLOSURE, SCD
- SITE AREA NOT IN SCOPE
- (E) FIRE ACCESS LANE - TURF PAVERS

SHEET NOTES

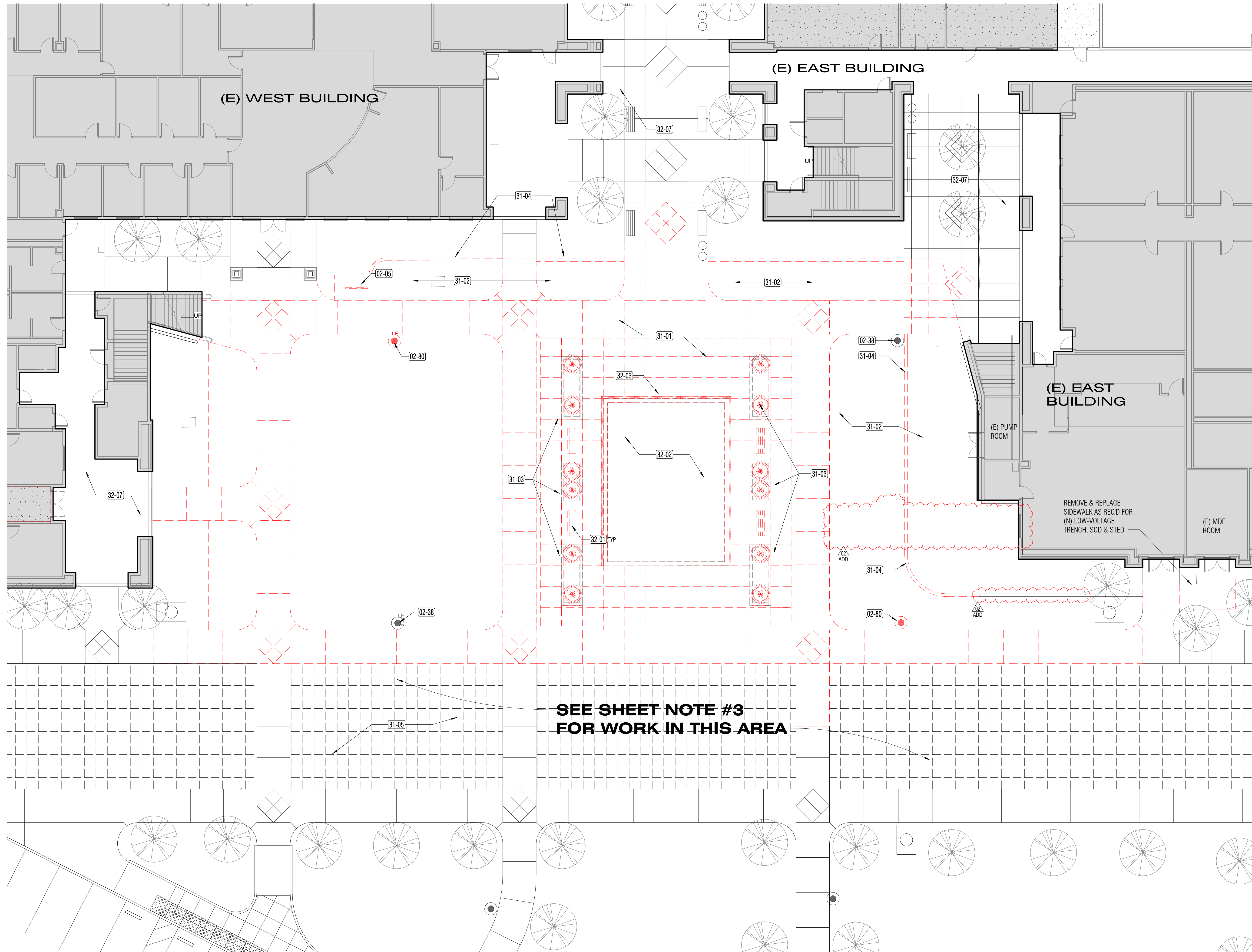
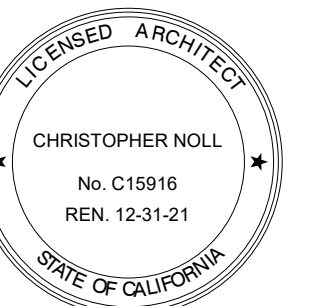
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- PROVIDE PROTECTION OF EXISTING PLANTS THAT ARE TO REMAIN
- REFER TO INCREMENT 1 DSA # 01-117630 FOR MODIFICATIONS AT ACCESSIBLE PARKING AREAS INCLUDING STRIPING, SIGNAGE, AND DETECTABLE WARNING

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ISSUE DATE 5/30/2019

NOLL & TAM JOB NUMBER 21630

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| | 8/2/19 | INC 2 - ADDENDUM 02 |

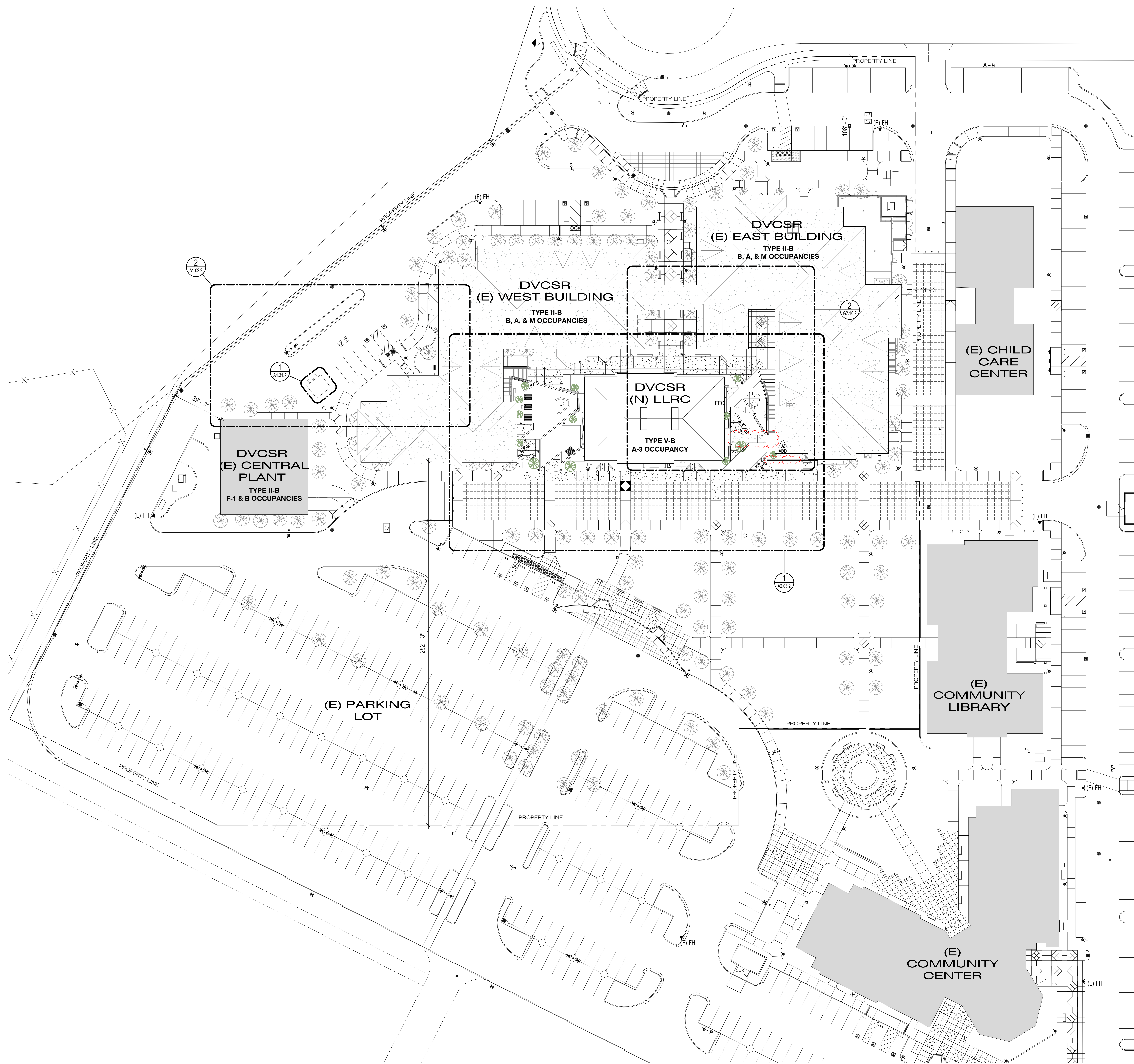
SHEET TITLE

**ENLARGED SITE
DEMOLITION PLAN @
LLRC**

SHEET NUMBER

A1.03.2

1 ENLARGED SITE DEMO PLAN @ LLRC
A1.03.2 3/32" = 1'-0"



SHEET NOTES

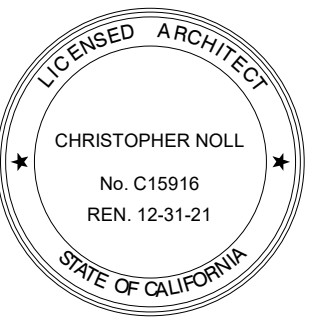
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4. PATCHING AND REPAIRING OF EXISTING SITE CONDITIONS IMPACTED BY ABOVE AND BELOW GROUND IMPROVEMENTS SHALL BE PROVIDED. SEE CIVIL, ELECTRICAL, FIRE, AND LANDSCAPE SITE PLANS FOR MORE INFORMATION.

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|-----------|--------|---------------------|
| 1 | 8/2/19 | INC 2 - ADDENDUM 02 |

SHEET TITLE

OVERALL SITE PLAN

SHEET NUMBER

A2.01.2

OVERALL SITE PLAN WITH NEW LIBRARY LEARNING RESOURCE CENTER (LLRC) BUILDING
1 A2.01.2 1" = 30'-0"

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KEY NOTES

| Key Value | Keynote Text |
|-----------|--|
| 02-38 | (E) LIGHT POLE TO REMAIN |
| 23-10 | CONDENSER UNIT ON HOUSEKEEPING PAD, SMD |
| 26-17 | RELOCATED POLE LIGHT, SED |
| 26-18 | NEW BOLLARD LIGHT, SED |
| 32-04 | RESTORE PLANTING IMPACTED BY NEW ABOVE & BELOW-GRADE IMPROVEMENTS, SLD |
| 32-05 | PERMEABLE PAVERS, SLD |
| 32-06 | NEW CONCRETE SIDEWALK, SLD & SCD |
| 32-08 | EXTEND (E) PLANTING AREA, SLD |
| 32-23 | (N) FOUNTAIN, SLD |

SHEET NOTES

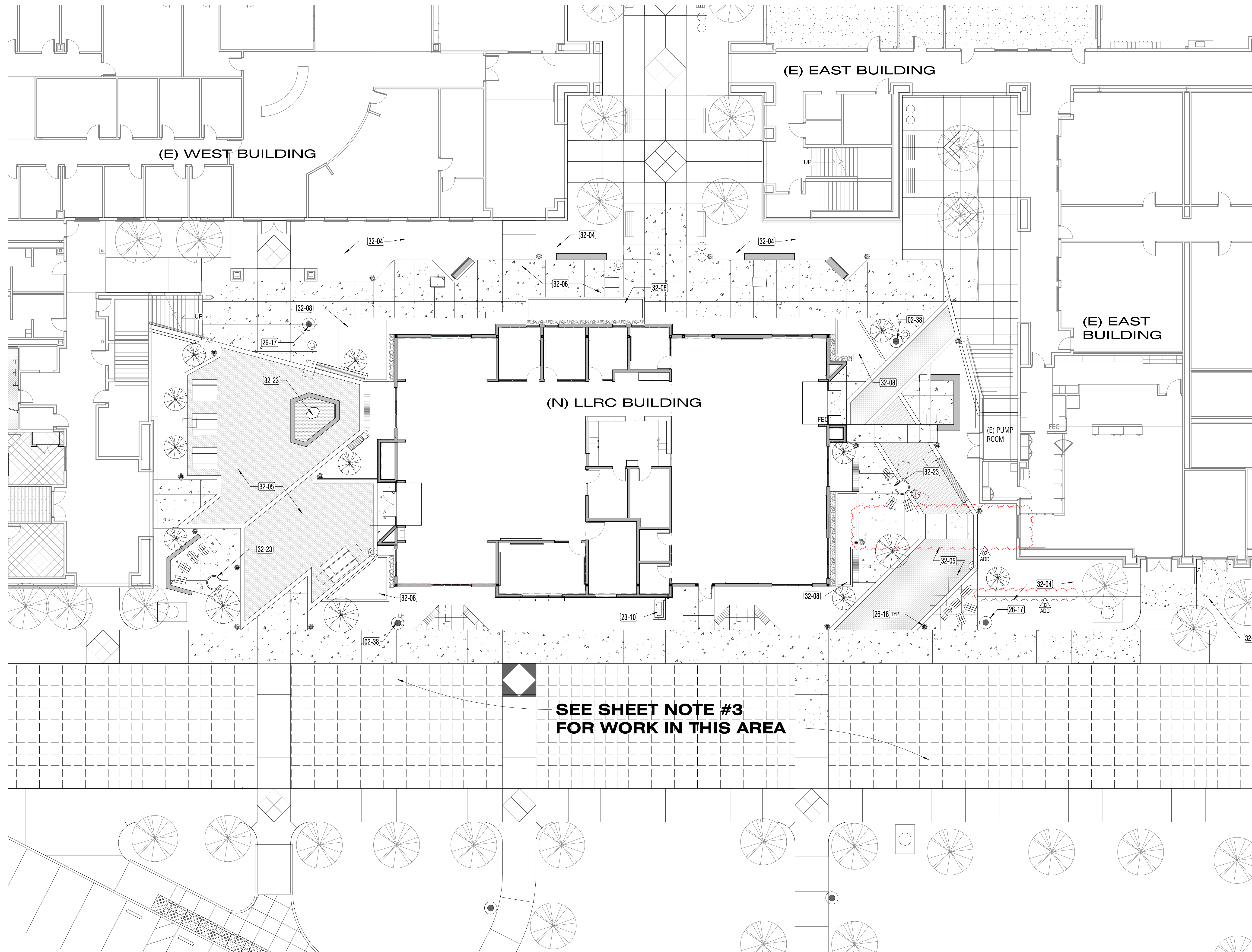
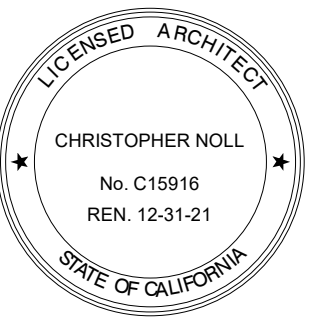
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- PATCHING AND REPAIRING OF EXISTING SITE CONDITIONS IMPACTED BY ABOVE AND BELOW GROUND IMPROVEMENTS SHALL BE PROVIDED. SEE CIVIL, ELECTRICAL, FIRE, AND LANDSCAPE SITE PLANS FOR MORE INFORMATION.

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PROJECT TITLE

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D-4002
DVC SAN RAMON
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ISSUE TITLE

INCREMENT 2

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NOLL & TAM JOB NUMBER 21630

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|-----------|--------|---------------------|
| ▲ | 8/2/19 | INC 2 - ADDENDUM 02 |

SHEET TITLE

**ENLARGED SITE PLAN
@ LLRC**

SHEET NUMBER

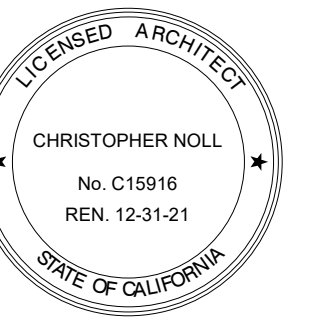
A2.03.2

**ENLARGED SITE PLAN @ (N) LIBRARY LEARNING RESOURCE CENTER
BUILDING**
1/22/2019 3/32" = 1'-0"

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PROJECT TITLE

CONTRA COSTA CCD D-4002 DVC SAN RAMON CAMPUS EXPANSION & RENOVATION

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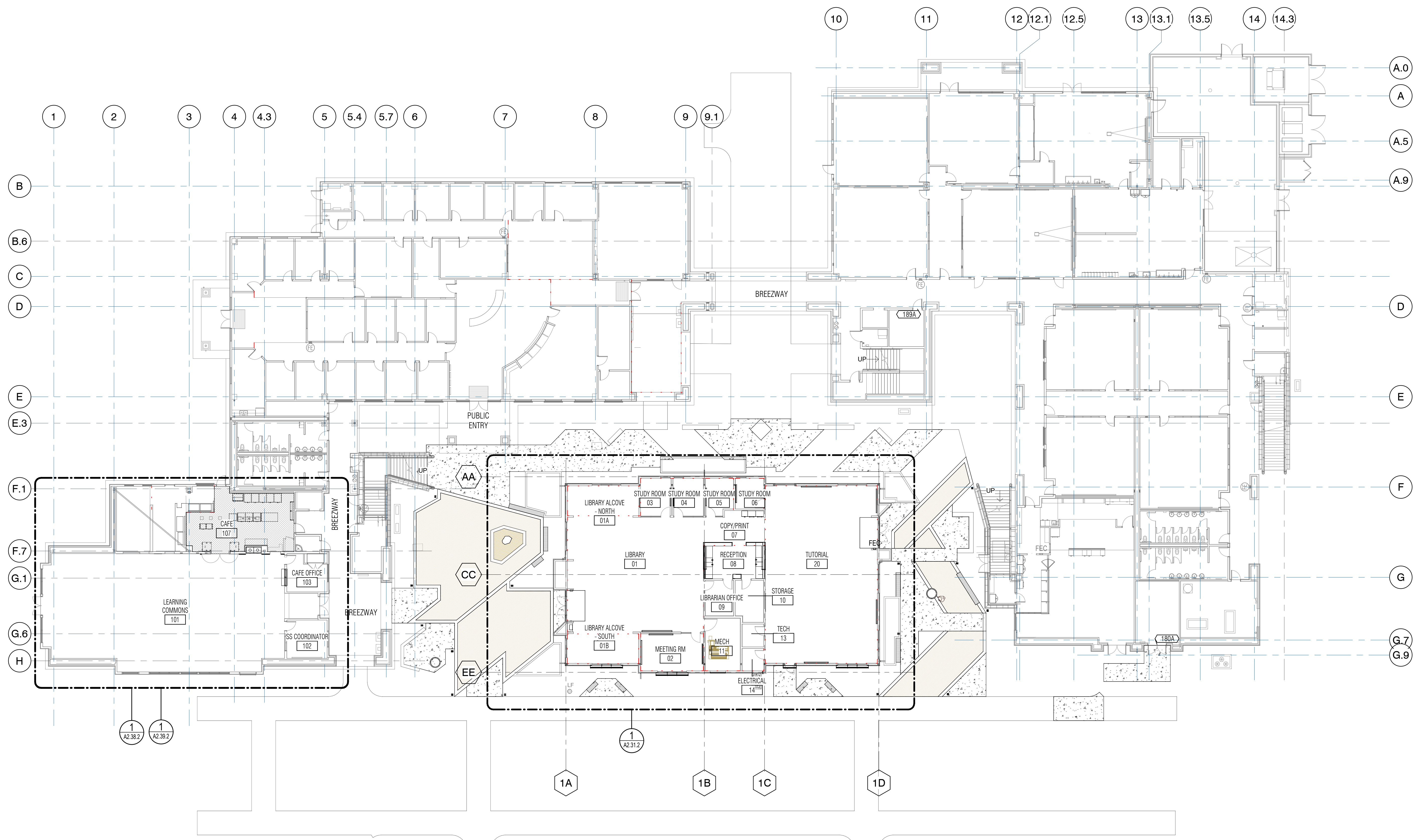
DATE DESCRIPTION

SHEET TITLE

OVERALL PLAN - 1ST FLOOR - EXISTING BUILDINGS

SHEET NUMBER

A2.30A.2



1 01 - FLOOR PLAN (EXISTING) _Incr 2
A2.30A.2 1/16" = 1'-0"

GENERAL NOTES

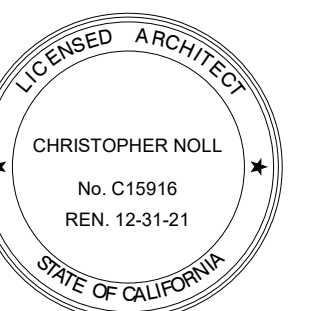
- SSD FOR FOUNDATION INFORMATION
- SEE FLOOR PLAN FOR LOCATION OF OPENINGS. SEE STOREFRONT SCHEDULE AND DETAILS FOR SIZES OF ROUGH OPENINGS.
- SPD, SMD, AND SFS/D FOR PENETRATIONS AND/OR FLOOR DRAINS
- WHERE RECESSED ENTRANCE MATS OCCUR PROVIDE AND INSTALL BUILT-UP MORTAR BED OR SELF-LEVELING COMPOUND TO SET MAT AT HEIGHT TO MATCH ADJACENT FLOOR FINISHES AS DETAILED.
- FOR STRUCTURAL SLAB CONTROL JOINTS SSD
- COLUMNS WITHIN EXTERIOR WALLS ARE TO BE CENTERED WITHIN STUD CAVITY DEPTH, TYPICAL UON

APPROVALS

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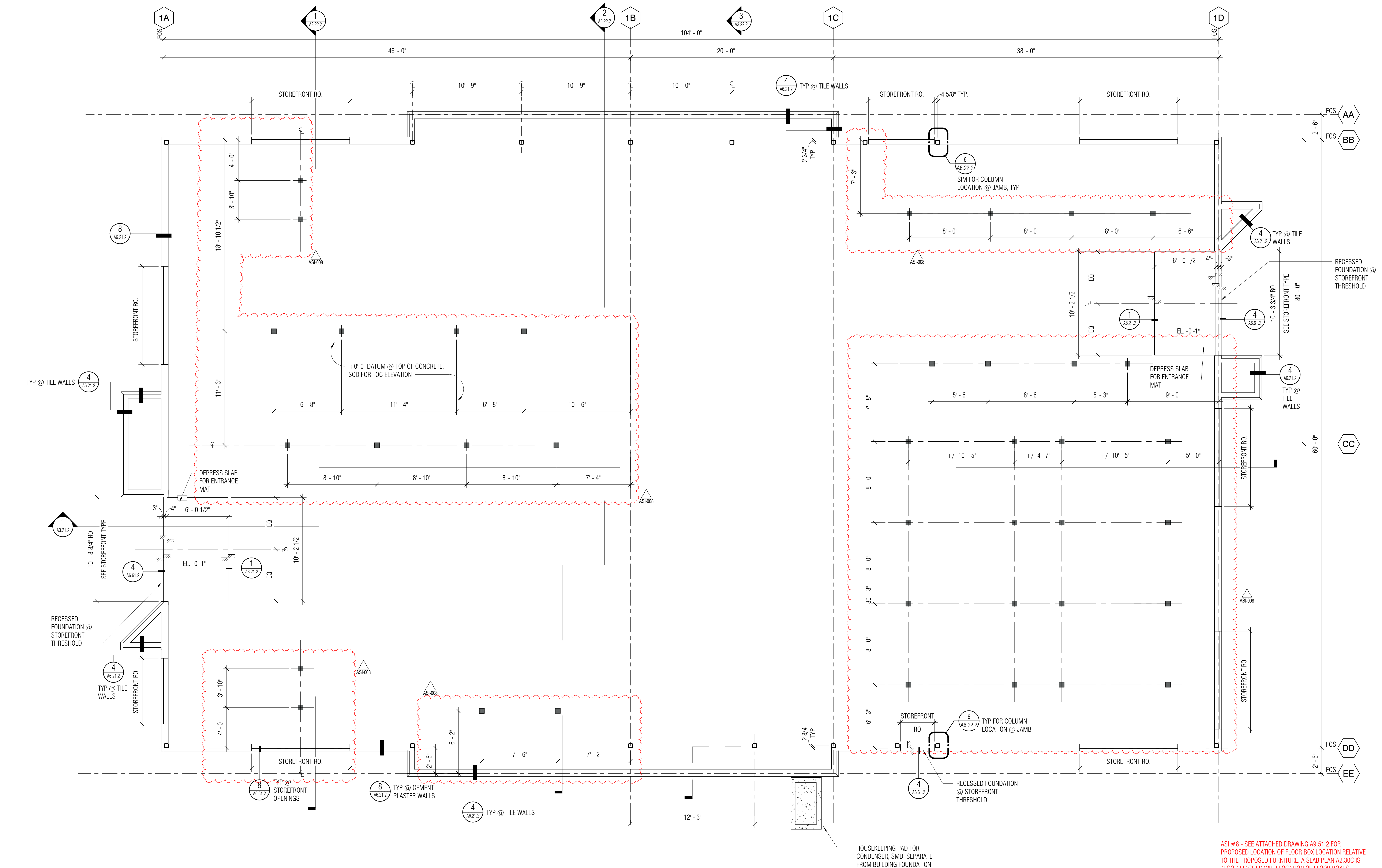
NOLL & TAM JOB NUMBER 21630

| REVISIONS | DATE | DESCRIPTION |
|-----------|-----------|-------------|
| 1 | 2/12/2020 | AS1 008 |

SHEET TITLE
**SLAB PLAN - LIBRARY
LEARNING RESOURCE
CENTER**

SHEET NUMBER

A2.30C.2



1 01 - SLAB PLAN - LIBRARY LEARNING RESOURCE CENTER
1/4" = 1'-0"

ASI #8 - SEE ATTACHED DRAWING A9.51.2 FOR PROPOSED LOCATION OF FLOOR BOX LOCATION RELATIVE TO THE PROPOSED FURNITURE. A SLAB PLAN A2.30C IS ALSO ATTACHED WITH LOCATION OF FLOOR BOXES.



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KEY NOTES

| Key Value | Keynote Text |
|-----------|--|
| 05-04 | METAL ACCESS LADDER |
| 06-15 | NEW WOOD DISPLAY UNIT FOR NEWSPAPERS - ROUTED SLOTS - HINGED PANEL DOOR |
| 08-04 | (N) WALL MOUNTED PUSH PLATE DOOR ACTUATOR |
| 08-13 | FIXED MECHANICAL LOUVER, SMD |
| 09-21 | RECESSED ENTRANCE MAT |
| 10-02 | NEW MARKERBOARD |
| 10-03 | NEW BULLETIN BOARD (SIZE PER ELEVATIONS) |
| 10-25 | 3" D X 48 H X 10'-0" W GLASS DISPLAY CASE |
| 10-37 | NEW HEAVY DUTY METAL STORAGE SHELVING 24" DEEP AND 84" HIGH. WIDTH VARIES. |
| 10-38 | LIBRARY BOOK SHELVING, 36" WIDE X 84" HIGH X 12" DEEP EA. QUANTITY AS SHOWN. |

| Key Value | Keynote Text |
|-----------|--|
| 11-05 | WALL MOUNTED FLAT SCREEN TV, WITH LAPTOP COMPUTER INTERFACE - POWER & DATA, STED |
| 11-07 | LAPTOP DISPENSER CART - 32 LAPTOP CAPACITY - POWER |
| 23-10 | CONDENSER UNIT ON HOUSEKEEPING PAD, SMD |
| 23-13 | CONDENSER UNIT PIPING, SMD. PENETRATE EXTERIOR WALL ABOVE CONCRETE CURB & CONTINUE WITHIN EXTERIOR WALL FRAMING TO CEILING |

SHEET NOTES

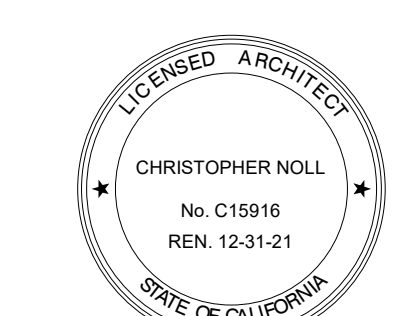
- SEE REFLECTED CEILING PLANS, SSD, SMP, SED, SPD, SFAD, SFSD, STED FOR MORE DEMOLITION INFORMATION.
- (E) GYPSUM BOARD OR OTHER INTERIOR FINISHES ON WALLS NOT BEING DEMOLISHED SHALL REMAIN IN PLACE UNLESS OTHERWISE NOTED. SEE SHEET NOTE #5. PATCH, REPAIR & PAINT EXISTING FINISHES AS AFFECTED BY SCOPE OF WORK TO MATCH (E) ADJACENT SURFACES AS REQUIRED.
- DIMENSIONS PROVIDED ON THE DRAWING ARE FOR REFERENCE ONLY. CONTRACTOR SHALL PROVIDE FIELD VERIFICATION AS REQUIRED IN AREA OF WORK.
- REFER TO FURNITURE PLAN FOR NON-FIXED FURNISHINGS AND EQUIPMENT
- PROVIDE BACKING IN WALLS WHERE REQUIRED FOR MOUNTING OF WALL MOUNTED EQUIPMENT, ACCESSORIES, FIXTURES, FIXED CASEWORK, ETC. SEE STRUCTURAL DWG FOR BACKING DETAILS. FOR WALL-MOUNTED FURNITURE ITEMS SEE FURNITURE PLAN. AT EXISTING WALLS TO RECEIVE WALL-MOUNTED UPPER CABINETS OR ITEMS EXCEEDING 50 LBS, WHERE EXISTING STUDS ARE LIGHTER THAN 16 GA. GYPSUM BOARD WILL NEED TO BE REMOVED TO INSTALL MIN 16 GA STUDS SISTERED TO EXISTING STUDS PER STRUCTURAL DWGS. PATCH & REPAIR ADJACENT SURFACES AS REQUIRED.
- WHERE NEW ROOM ID SIGNAGE IS PROVIDED, REMOVE EXISTING ROOM SIGNAGE THAT IS NO LONGER APPLICABLE & REPAIR WALL AS REQUIRED - APPLIES TO RENOVATION SCOPE.
- REFER TO SHEET A9.21.2 - A9.25.2 FOR NEW SIGNAGE DETAILS.
- EXISTING ACCESS FLOOR BETWEEN GRIDLINE 2 AND 4.3 SHALL BE PROTECTED WITH PLYWOOD OR PATH OVERLAY WHEN MOVING OF HEAVY LOADS EXCEEDING 2,000 LBS OR 1,500 LBS WITH WHEELBASE OF LESS THAN 24" OVER FLOOR. DISTRIBUTION OF WEIGHT NEEDS TO BE EVEN ACROSS FLOORING.

APPROVALS

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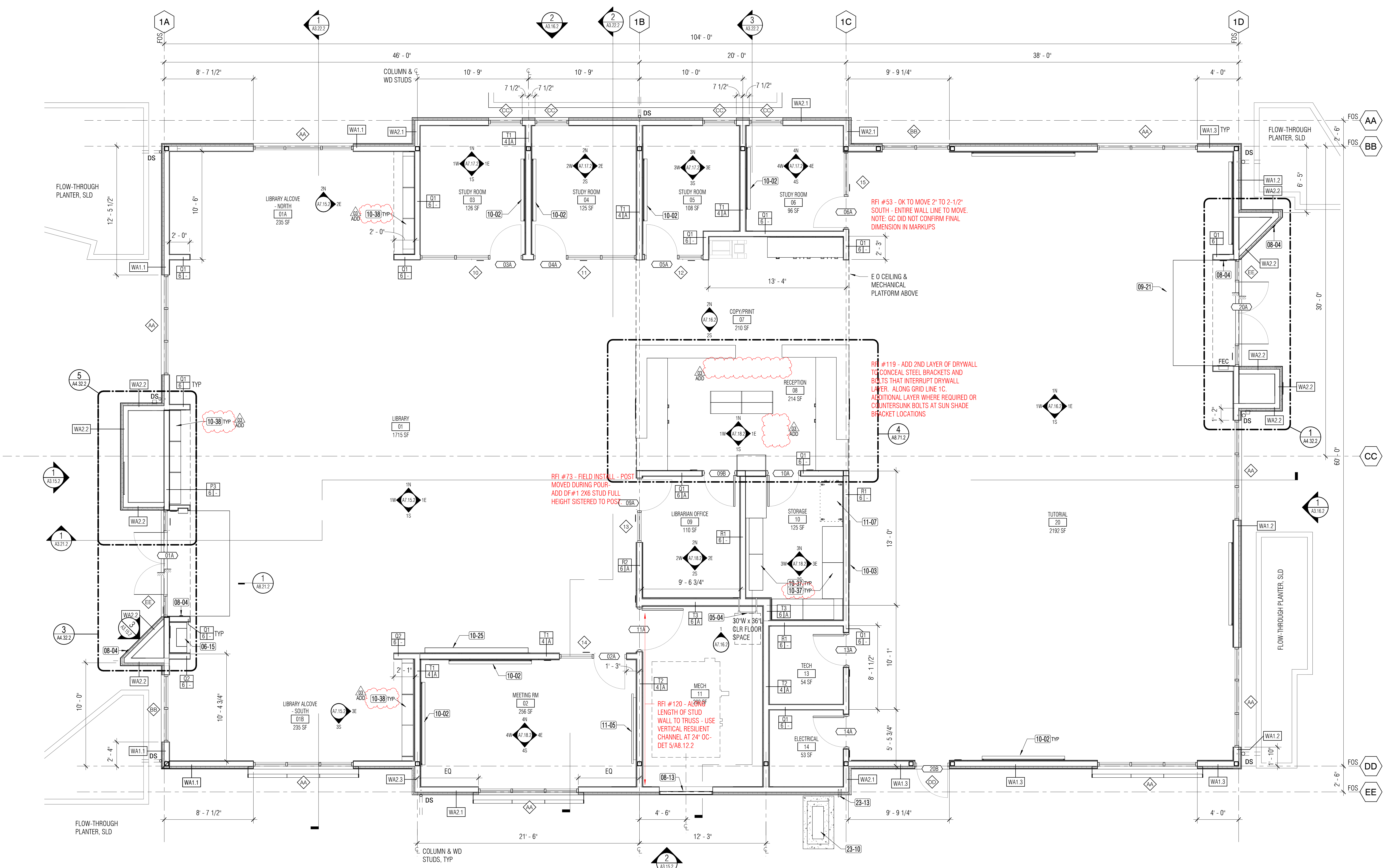
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|-----------|---------|---------------------|
| 1 | 8/27/19 | INC 2 - ADDENDUM 03 |

SHEET TITLE

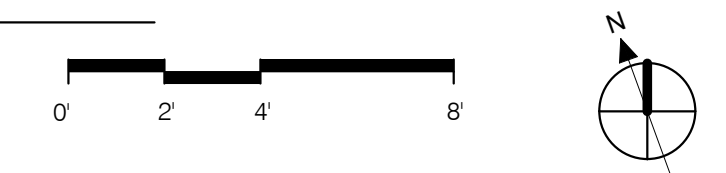
**FLOOR PLAN -
LIBRARY LEARNING
RESOURCE CENTER**

SHEET NUMBER

A2.31.2



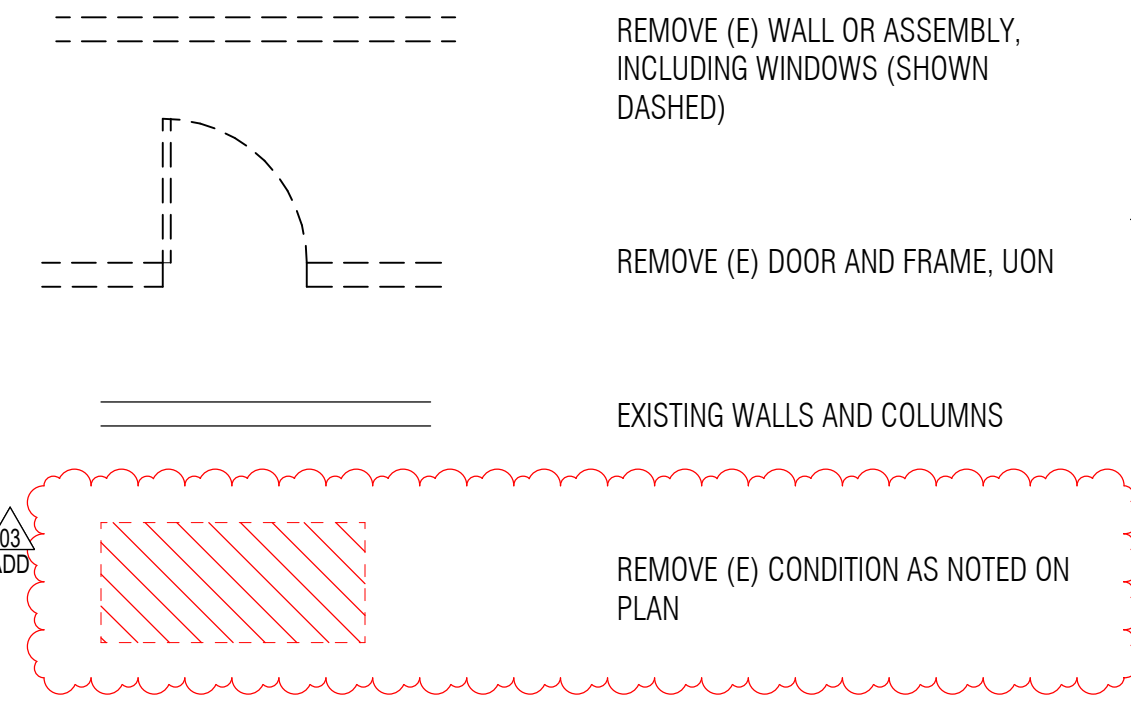
1 01 - FLOOR PLAN - LIBRARY LEARNING RESOURCE CENTER
1/4" = 1'-0"



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FLOOR DEMO LEGEND

(SYMBOLS SHOWN - NOT ALL WILL BE USED ON PLAN)



REMOVE (E) WALL OR ASSEMBLY, INCLUDING WINDOWS (SHOWN DASHED)

REMOVE (E) DOOR AND FRAME, UON

EXISTING WALLS AND COLUMNS

REMOVE (E) CONDITION AS NOTED ON PLAN

KEY NOTES

| Key Value | Keynote Text |
|-----------|---|
| 02-01 | REMOVE EXISTING FLOOR FINISH AND BASE |
| 02-08 | REMOVE EXISTING INTERIOR WINDOW |
| 02-09 | REMOVE AND SALVAGE EXISTING BOOKSTORE GONDOLA FOR RE-INSTALLATION IN NEW BOOKSTORE |
| 02-10 | REMOVE EXISTING PLAM COUNTERTOP AND BASE CABINETS |
| 02-36 | REMOVE EXISTING RESILIENT TILE FLOORING |
| 02-37 | REMOVE AND SALVAGE EXISTING VENDING MACHINE FOR RELOCATION. FINAL LOCATION TO BE DETERMINED |
| 02-95 | EXISTING BEVERAGE COOLERS. REMOVAL BY BEVERAGE VENDOR |
| 02-96 | EXISTING PEETS COFFEE DISPENSER. REMOVAL BY BEVERAGE VENDOR |

| Key Value | Keynote Text |
|-----------|---|
| 02-100 | (E) CONCRETE GRADE BEAM OR FOOTING BELOW TO REMAIN. CONTRACTOR TO VERIFY (E) FOUNDATION LOCATIONS IN FIELD AND COORDINATE NEW WORK WITH EXISTING GRADE BEAMS & FOOTINGS. SEE ALSO FOOD SERVICE DRAWINGS, SPD. |
| 02-101 | REMOVE (E) WALL FINISHES TO STUDS |
| 02-102 | REMOVE (E) RECESSED FE CABINET |
| 02-112 | SELECTIVE REMOVAL OF EXISTING CONC. SLAB & BELOW GRADE TRENCHING IS REQUIRED FOR INSTALLATION OF NEW PLUMBING AND ELECTRICAL UTILITIES. SPD, SED & SEE FOOD SERVICE DRAWINGS FOR LOCATIONS. ALL EXISTING STRUCTURAL FOOTINGS, GRADE BEAMS, AND CURBS ARE TO REMAIN UNDISTURBED. LOCATE IN FIELD AND PROTECT IN PLACE. |
| 02-114 | REMOVE EXISTING FLOOR BOXES. PATCH & REPAIR SLAB AS REQUIRED. SEE NEW FLOOR PLANS. SED. |
| 02-115 | EXISTING RAISED FLOOR SYSTEM TO REMAIN. RECONFIGURE UTILITIES AND LOW VOLTAGE CABLING AS REQUIRED FOR NEW LAYOUT. REMOVE AND REPAIR EXISTING SYSTEM AS REQUIRED FOR NEW WORK. |
| 02-120 | REMOVE (E) PAIR OF STOREFRONT DOORS ONLY. FRAME TO REMAIN. |

SHEET NOTES

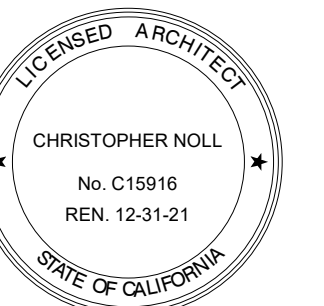
- SEE REFLECTED CEILING PLANS, SSD, SMP, SED, SPD, SFAD, SFSD, STED FOR MORE DEMOLITION INFORMATION.
- (E) GYPSUM BOARD OR OTHER INTERIOR FINISHES ON WALLS NOT BEING DEMOLISHED SHALL REMAIN IN PLACE UON. SEE SHEET NOTE #5. PATCH, REPAIR & PAINT EXISTING FINISHES AS AFFECTED BY SCOPE OF WORK TO MATCH (E) ADJACENT SURFACES AS REQUIRED.
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- PROVIDE BACKING IN WALLS WHERE REQUIRED FOR MOUNTING OF WALL MOUNTED EQUIPMENT, ACCESSORIES, FIXTURES, FIXED CASEWORK, ETC. SEE STRUCTURAL DWG FOR BACKING DETAILS. FOR WALL-MOUNTED FURNITURE ITEMS SEE FURNITURE PLAN. AT EXISTING WALLS TO RECEIVE WALL MOUNTED UPPER CABINETS OR ITEMS EXCEEDING 50 LBS. WHERE EXISTING STUDS ARE LIGHTER THAN 16 GA. GYPSUM BOARD WILL NEED TO BE REMOVED TO INSTALL MIN 16 GA STUDS SISTERED TO EXISTING STUDS PER STRUCTURAL DWGS. PATCH & REPAIR ADJACENT SURFACES AS REQUIRED.
- WHERE NEW ROOM ID SIGNAGE IS PROVIDED, REMOVE EXISTING ROOM SIGNAGE THAT IS NO LONGER APPLICABLE & REPAIR WALL AS REQUIRED - APPLIES TO RENOVATION SCOPE.
- REFER TO SHEET A9.21.2 - A9.25.2 FOR NEW SIGNAGE DETAILS.
- EXISTING ACCESS FLOOR BETWEEN GRIDLINE 2 AND 4.3 SHALL BE PROTECTED WITH PLYWOOD OR PATH OVERLAY WHEN MOVING OF HEAVY LOADS EXCEEDING 2,000 LBS OR 1,500 LBS WITH WHEELBASE OF LESS THAN 24" OVER FLOOR. DISTRIBUTION OF WEIGHT NEEDS TO BE EVEN ACROSS FLOORING.

APPROVALS

NOLL & TAM ARCHITECTS

729 Heinz Avenue
Berkeley, CA 94710
tel 510.542.2200
fax 510.542.2201

ARCHITECTS SEAL



PROJECT TITLE

**CONTRA COSTA
CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION &
RENOVATION**

1690 Watermill Rd.
San Ramon, CA 94582

RECORD SET:

THESE DRAWINGS HAVE BEEN PREPARED FROM ADDENDUMS, CCD'S, ASIS AND SELECT RFI'S OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM. ONLY A SELECT FEW AS-BUILTS WERE SUBMITTED.

ISSUE TITLE

INCREMENT 2

ISSUE DATE 5/30/2019

NOLL & TAM JOB NUMBER 21630

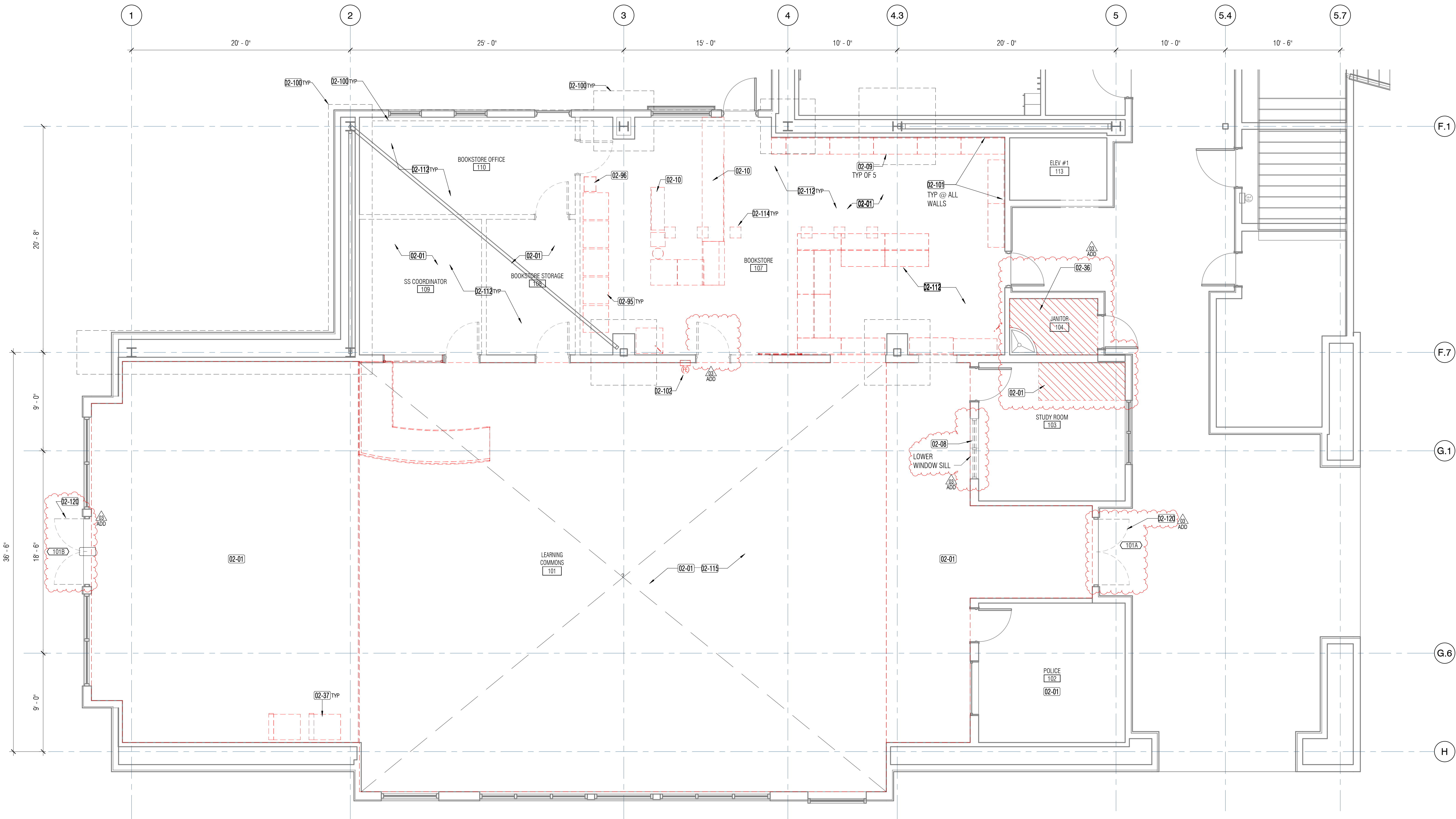
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SHEET TITLE

**DEMO - 1ST FLOOR - WEST - (E)
BOOKSTORE &
LEARNING COMMONS**

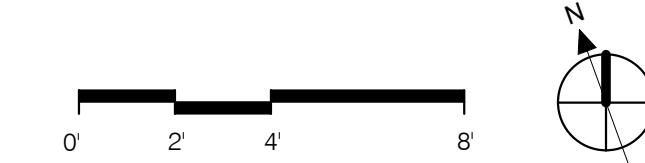
SHEET NUMBER

A2.38.2



01 - FLOOR PLAN - WEST - CAFE & LEARNING COMMONS (DEMO)

1/4" = 1'-0"



KEY NOTES

| Key Value | Keynote Text |
|-----------|---|
| 02-100 | (E) CONCRETE GRADE BEAM OR FOOTING BELOW TO REMAIN. CONTRACTOR TO VERIFY (E) FOUNDATION LOCATIONS IN FIELD AND COORDINATE NEW WORK WITH EXISTING GRADE BEAMS & FOOTINGS. SEE ALSO FOOD SERVICE DRAWINGS, SPD. |
| 02-117 | (E) JANITOR SINK WITH TILE WAINSCOT TO REMAIN. |
| 02-118 | (E) WALL-MOUNTED CLEANING CHEMICAL STORAGE & DISPENSER TO REMAIN. |
| 02-119 | (E) STORAGE CABINET TO REMAIN. |
| 03-14 | PATCH & REPAIR EXISTING CONCRETE SLAB & VAPOR BARRIER AS REQUIRED AT ALL LOCATIONS OF REMOVED UTILITY BOXES & TRENCHING. PREPARE FLOOR FOR NEW FINISHES. SEE FINISH PLANS & SSD. |
| 03-15 | (N) CONC HOUSEKEEPING PAD. SEE FOR DIMENSIONS & SSD FOR DETAILS. VIF PAD WILL FIT WITHIN ROOM CONSTRAINTS SET BY (E) EXTERIOR WINDOW. NOTIFY ARCHITECT OF ANY CONFLICT. |
| 05-13 | CONTRACTOR TO VIF (N) & (E) STUD LOCATIONS & COORDINATE WITH REQUIRED FOOD SERVICE EQUIPMENT ANCHORAGE POINTS. PROVIDE (N) IN WALL BACKING WHERE EQUIPMENT DOES NOT ALIGN WITH STUD LOCATIONS AS REQUIRED. SEE FOOD SERVICE DRAWINGS. REMOVE (E) GYPSUM AS REQUIRED TO INSTALL BACKING, PATCH AND REPAIR TO MATCH (E) WALL ASSEMBLY. FINISH AS SCHEDULED. |
| 06-08 | NEW CUSTOM BUILT BASE CABINET WITH RECYCLE/COMPOST/TRASH OPENINGS. PLASTIC LAMINATE PANELING. SOLID SURFACE COUNTERTOP. CONTINUOUS HINGED DOORS. |

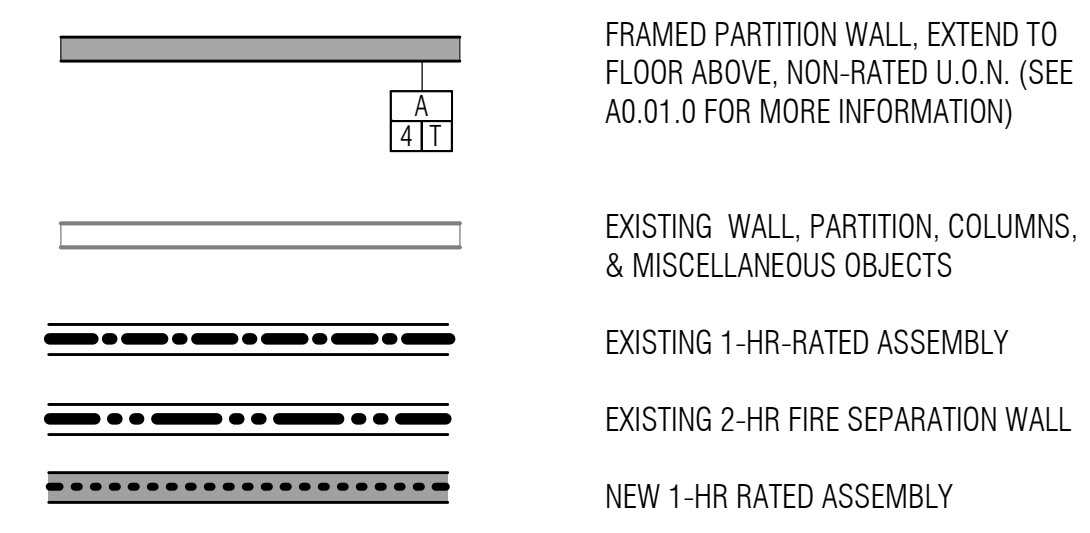
| Key Value | Keynote Text |
|-----------|--|
| 06-11 | NEW CUSTOM BUILT SERVERY-PREP CASEWORK - SOLID SURFACE COUNTERTOP. PLASTIC LAMINATE PANELING. CUTOUT IN COUNTERTOP FOR SERVERY DROP IN PANS WHERE OCCURS. SNEEZEGUARD WITH INTEGRAL LIGHTING, HEAT LAMP, POWER, UTILITY CONNECTIONS AS REQUIRED. |
| 06-12 | NEW CUSTOM BUILT SERVERY-PREP CASEWORK - SOLID SURFACE COUNTERTOP. PLASTIC LAMINATE PANELING. FLUSH PANEL DOORS AND ADJUSTABLE SHELVING BASE CABINETS, POWER, UTILITY CONNECTIONS AS REQUIRED FOR COUNTERTOP EQUIPMENT. |
| 06-28 | INSTALL FRP OVER (E) GYP BD WALLS THROUGHOUT ROOM. ABUT & SEAL EDGE TRIM TO (E) TILE WAINSCOT AT MOP SINK. |
| 08-15 | MOTORIZED ROLL-UP DOOR - ALUM - FACE MOUNTED GUIDERAILS. |
| 08-17 | (N) STOREFRONT DOOR IN (E) FRAME. |
| 08-18 | NEW VERTICAL SLIDING SERVICE WINDOW UNIT. PROVIDE COUNTERTOP BELOW WINDOW UNIT. |
| 09-25 | NEW RESILIENT SHEET FLOORING OVER EXISTING RAISED ACCESS FLOOR AREA. PROVIDE MODIFICATION OF EXISTING 2X2 RAISED ACCESS FLOOR SYSTEM FOR DATA/POWER RE-LOCATION AND NEW LOCATIONS. WHERE REQUIRED, REPLACE ACCESS FLOOR SYSTEM IN KIND. PROVIDE ONE LAYER OF UNDERLAYMENT GRADE PLYWOOD SUBSTRATE TO ADDRESS ANY LEVEL DIFFERENCES BETWEEN ACCESS FLOORING AND EXISTING ADJACENT CONCRETE SLAB. THICKNESS 1/4" MIN TO 1/2" AS REQUIRED. FIELD VERIFY. TRIM BOARDS TO ALLOW FLOOR ACCESS - GAPS BETWEEN BOARDS TO NOT EXCEED 1MM. |
| 09-38 | NEW WALL MOUNTED WOOD GRILLE. SEE ELEVATIONS. |
| 10-13 | CORNER WALL PROTECTION. |

| Key Value | Keynote Text |
|-----------|---|
| 10-24 | NEW SNEEZEGUARDS MOUNTED TO CASEWORK- INTERMEDIATE STAINLESS STEEL POSTS AND GLASS TOP AND GUARDS. SEE FOOD SERVICE DWG. |
| 10-32 | (N) SEMI RECESSED FIRE EXTINGUISHER CABINET w/ TYPE K EXTINGUISHER. 6L MIN. LOCATED MAX. 30' FROM COOKING APPLIANCES. |
| 10-34 | 2-TIER LOCKERS FOR CAFE EMPLOYEES. PROVIDE MINIMUM OF 1 ADA COMPLIANT LOCKER IN EACH CLUSTER. |
| 10-35 | NEW METAL 4-POST SHELVING WITH SECURITY ROLL-DOWN SHUTTER AND END PANELS. 8 SHELVES PER UNIT. EACH UNIT TO BE 36"W x 12"D x 88"H IN QUANTITY SHOWN. |
| 10-36 | NEW METAL 4-POST SLIDING SHELF SYSTEM. 8 SHELVES PER UNIT. EACH UNIT TO BE 36"W x 12"D x 88"H. |
| 11-09 | NEW REFRIGERATED DISPLAY FOOD CASE. SEE SPD FOR ELECTRICAL AND PLUMBING REQUIREMENTS. SEE FOOD SERVICE DWGS. |
| 11-27 | NON-REFRIGERATED FOOD SERVICE CASE. SEE FOOD SERVICE DRAWINGS, SED FOR POWER. |
| 11-35 | MOVABLE CONDIMENT CART. SEE FOOD SERVICE DRAWINGS. |
| 11-45 | NEW VENDING MACHINES (OFO) - BOOKSTORE SUPPLY - DRY GOODS - COFFEE - REFRIGERATED FRESH GOODS, REFRIGERATED BEVERAGES AND MICROWAVE. CONTRACTOR TO PROVIDE (6) 20 AMP POWER AND 1/2" WATER LINE FOR COFFEE MACHINE. 40" MAX TO OPERABLE PARTS. OWNER VENDING - INSTALLATION TO REFER TO DET A-22/FSS.1.2 AND B-2/FSS.1.2 FOR ANCHORAGE TO FLOOR AND WALL. BLOCKING TO BE FURNISHED BY CONTRACTOR. |

HEALTH DEPT. GENERAL NOTES

- SMOOTH, DURABLE, EASILY CLEANABLE, LIGHT-COLORED, AND NON-ABSORBENT WALL AND CEILING FINISHES ARE REQUIRED IN THE FOLLOWING AREAS:
 - WHERE FOOD IS PREPARED OR PACKAGED
 - CUSTOMER SELF-SERVICE LOCATIONS WHERE OPEN FOOD OR BEVERAGE IS DISPENSED (E.G., SALAD BARS, BUFFETS, CONDIMENT STATIONS, BEVERAGE STATIONS, ETC.)
 - WAITSTATIONS
 - WHERE UTENSILS ARE WASHED OR STORED
 - JANITORIAL AREAS
 - RESTROOMS (EXCEPTION: CUSTOMER RESTROOMS)
 - EMPLOYEE LOCKER ROOMS
 - WALK-IN REFRIGERATORS/FREEZERS
 - WHERE ANY FOOD IS NOT STORED IN THE ORIGINAL UNOPENED CONTAINERS
 - GARBAGE AND REFUSE STORAGE

LEGEND

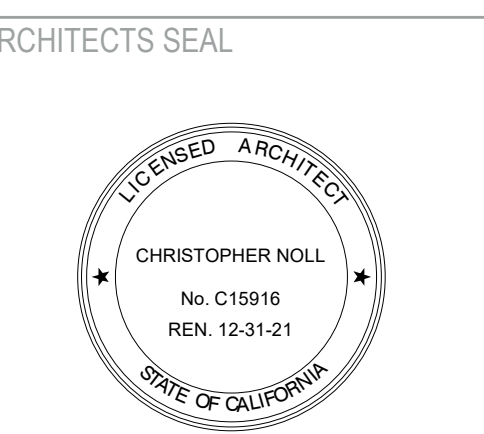


SHEET NOTES

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APPROVALS

NOLL & TAM ARCHITECTS
 729 Heinz Avenue
 Berkeley, CA 94710
 tel 510.542.2200
 fax 510.542.2201



PROJECT TITLE
CONTRA COSTA CCD D-4002 DVC SAN RAMON CAMPUS EXPANSION & RENOVATION

1690 Watermill Rd.
 San Ramon, CA 94582

ISSUE TITLE
INCREMENT 2

ISSUE DATE 5/30/2019
NOLL & TAM JOB NUMBER 21630

| REVISIONS | DATE | DESCRIPTION |
|-----------|-------------------------|-------------|
| 8/27/19 | INC 2 - ADDENDUM 03 | |
| 10/15/19 | INC 2 - ADDENDUM 03 REV | |
| 7/30/20 | INC2 ASI 019 | |
| 3/4/21 | INC2 ASI 026 | |
| 3/23/21 | INC2 ASI 028 | |
| 4/15/21 | INC2 ASI 029 | |

SHEET TITLE
NEW - 1ST FLOOR - WEST - CAFE & LEARNING COMMONS

SHEET NUMBER
A2.39.2

ASI #28 - AT DOOR 108A:
 IN LIEU OF PROVIDING HARDWARE GROUP 5 AND SEAL DOOR TO MAKE IMPERFERABLE PER A9.13.2, PROVIDE A PLYWOOD PANEL, SIZED TO FIT INSIDE EXISTING DOOR OPENING (3'X7'). FIELD VERIFY). SECURE PLYWOOD WITH SHIM, FLUSH TO FACE OF HOLLOW METAL FRAME. THE ABOVE TRANSOM WINDOW DOES NOT RECEIVE A PLYWOOD PANEL. THE EXISTING PANIC HARDWARE AT EXISTING HM DOOR IS TO REMAIN. CLOSER MAY BE DETACHED PARTIALLY AS REQUIRED TO INSTALL NEW PLYWOOD. CONFIRM EXISTING HM DOOR WILL REMAIN CLOSED. APPLY FRP PANEL, FULL HEIGHT OVER ENTIRE DOOR FRAME AND TRANSOM, TO UNDERSIDE OF CEILING. VISIBLE PANEL BEHIND THE TRANSOM TO BE PAINTED GRAY. PROVIDE COVERED FLOORING UP AND AROUND NEW FRP.

ASI #29 AT JANITOR 104:
 PROVIDE 2X WOOD BLOCKING IN FRONT AND SIDES AROUND THE EXISTING ELECTRICAL CONDUITS TO ALLOW FINISH FLOOR TO COVER UP. SECURE BLOCKING TO WALL. SEE 9/48.21.2

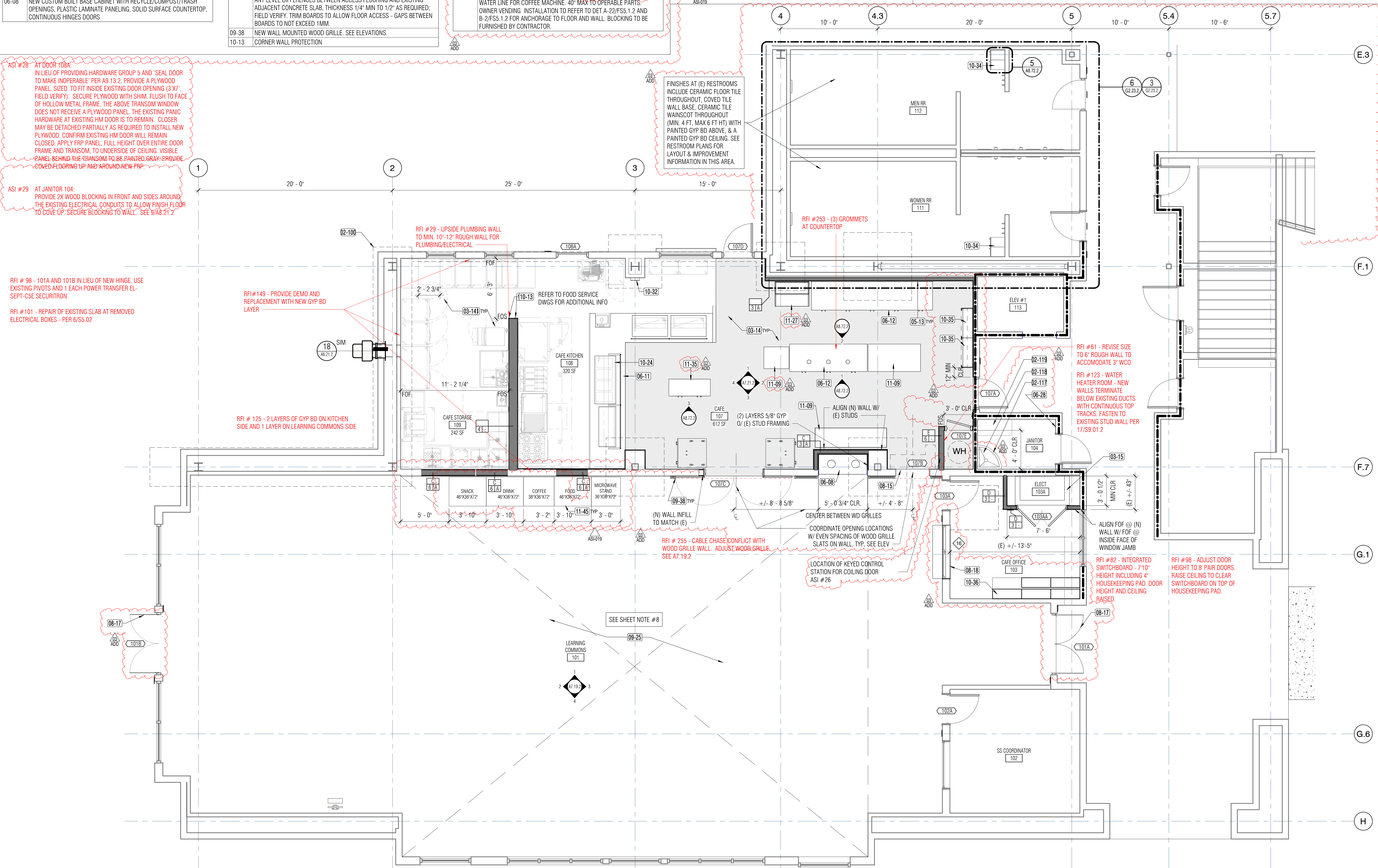
RFI #98 - 101A AND 101B IN LIEU OF NEW HINGE, USE EXISTING PIVOTS AND 1 EACH POWER TRANSFER EL-SEPT-C5E SECURITRON

RFI #101 - REPAIR OF EXISTING SLAB AT REMOVED ELECTRICAL BOXES - PER 6/55.02

RFI #149 - PROVIDE DEMO AND REPLACEMENT WITH NEW GYP BD LAYER

RFI #125 - 2 LAYERS OF GYP BD ON KITCHEN SIDE AND 1 LAYER ON LEARNING COMMONS SIDE

FINISHES AT (E) RESTROOMS INCLUDE CERAMIC FLOOR TILE THROUGHOUT, COVERED TILE WALL BASE, CERAMIC TILE WAINSCOT THROUGHOUT (MIN. 4 FT. MAX 6 FT HT) WITH PAINTED GYP BD ABOVE, & A PAINTED GYP BD CEILING. SEE RESTROOM PLANS FOR LAYOUT & IMPROVEMENT INFORMATION IN THIS AREA.




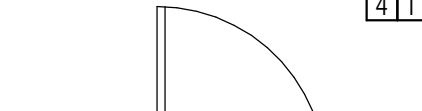
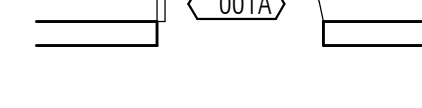



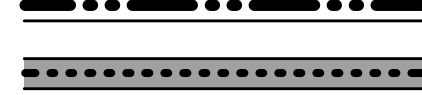
01 - FLOOR PLAN - WEST - CAFE & LEARNING COMMONS
 1/4" = 1'-0"



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LEGEND

(SYMBOLS SHOWN - NOT ALL WILL BE USED ON PLAN)

-  FRAMED PARTITION WALL. EXTEND TO FLOOR/ROOF STRUCTURE ABOVE, NON-RATED U.O.N. (SEE A0.01.0 FOR MORE INFORMATION)
-  DOOR TYPE
-  WINDOW / STOREFRONT TYPE
-  EXISTING WALL, PARTITION, COLUMNS, & MISCELLANEOUS OBJECTS
-  EXISTING 1-HR RATED ASSEMBLY
-  EXISTING 2-HR FIRE SEPARATION WALL
-  NEW 1-HR RATED ASSEMBLY

KEY NOTES

| Key Value | Keynote Text |
|-----------|---|
| 02-73 | EXISTING SEISMIC JOINT TO REMAIN |
| 02-87 | EXISTING STRUCTURAL STEEL BRACE FRAME |
| 02-103 | EXISTING GUARDRAIL, POSTS TO REMAIN. REMOVE AND REPLACE CABLING AS REQUIRED TO INSTALL NEW MECHANICAL EQUIPMENT. |
| 02-106 | EXISTING ROOF DORMER ABOVE |
| 02-107 | EXISTING ATTIC ACCESS LADDER @ JANITOR'S CLOSET |
| 02-108 | EXISTING ATTIC SLAB EDGE |
| 02-109 | EXISTING ROOF FRAMING ABOVE |
| 02-110 | EXISTING SURFACE MOUNTED LIGHT FIXTURE ABOVE. REMOVE AND RELOCATE AS REQUIRED TO AVOID NEW MECHANICAL WORK. SMD, SED. |

| Key Value | Keynote Text |
|-----------|---|
| 02-111 | EXISTING SHAFT AND SHAFTWALL ENCLOSURE FROM INCREMENT 1 WORK. MODIFY AS REQUIRED FOR NEW MEP WORK. SMD. |
| 03-13 | 6" HIGH CONCRETE PAD FOR NEW MECHANICAL UNIT. SSD. |
| 08-16 | CUSTOM SIZE FIRE-RATED ACCESS DOOR W/ CONT. SS. HINGE @ JAMB. CONTRACTOR TO VIF HEAD HEIGHTS & DOOR SWING CLEARANCES. ALSO SEE DOOR SCHEDULE. |
| 23-05 | NEW EXHAUST ROOF VENT. SMD |

SHEET NOTES

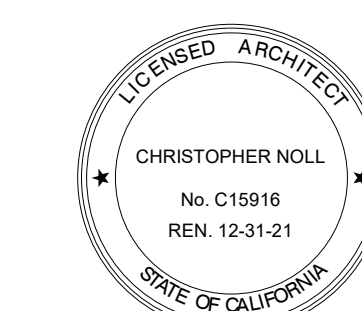
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APPROVALS

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729 Heinz Avenue
Berkeley, CA 94710
tel 510.542.2200
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ARCHITECTS SEAL



PROJECT TITLE

**CONTRA COSTA
CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION &
RENOVATION**

1690 Watermill Rd.
San Ramon, CA 94582

RECORD SET:

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ISSUE TITLE

INCREMENT 2

ISSUE DATE 5/30/2019

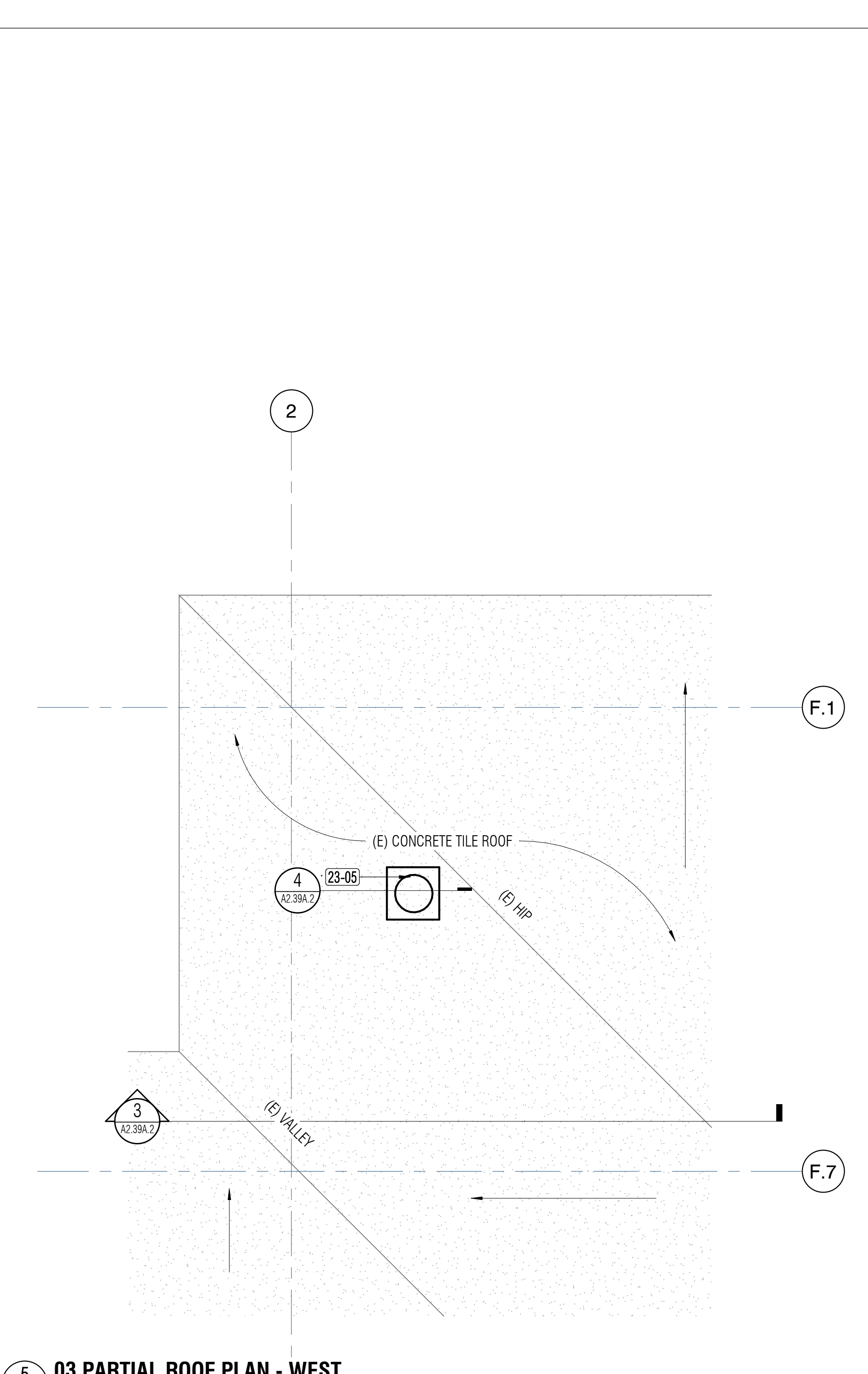
NOLL & TAM JOB NUMBER 21630

| REVISIONS | DATE | DESCRIPTION |
|-----------|---------|--------------|
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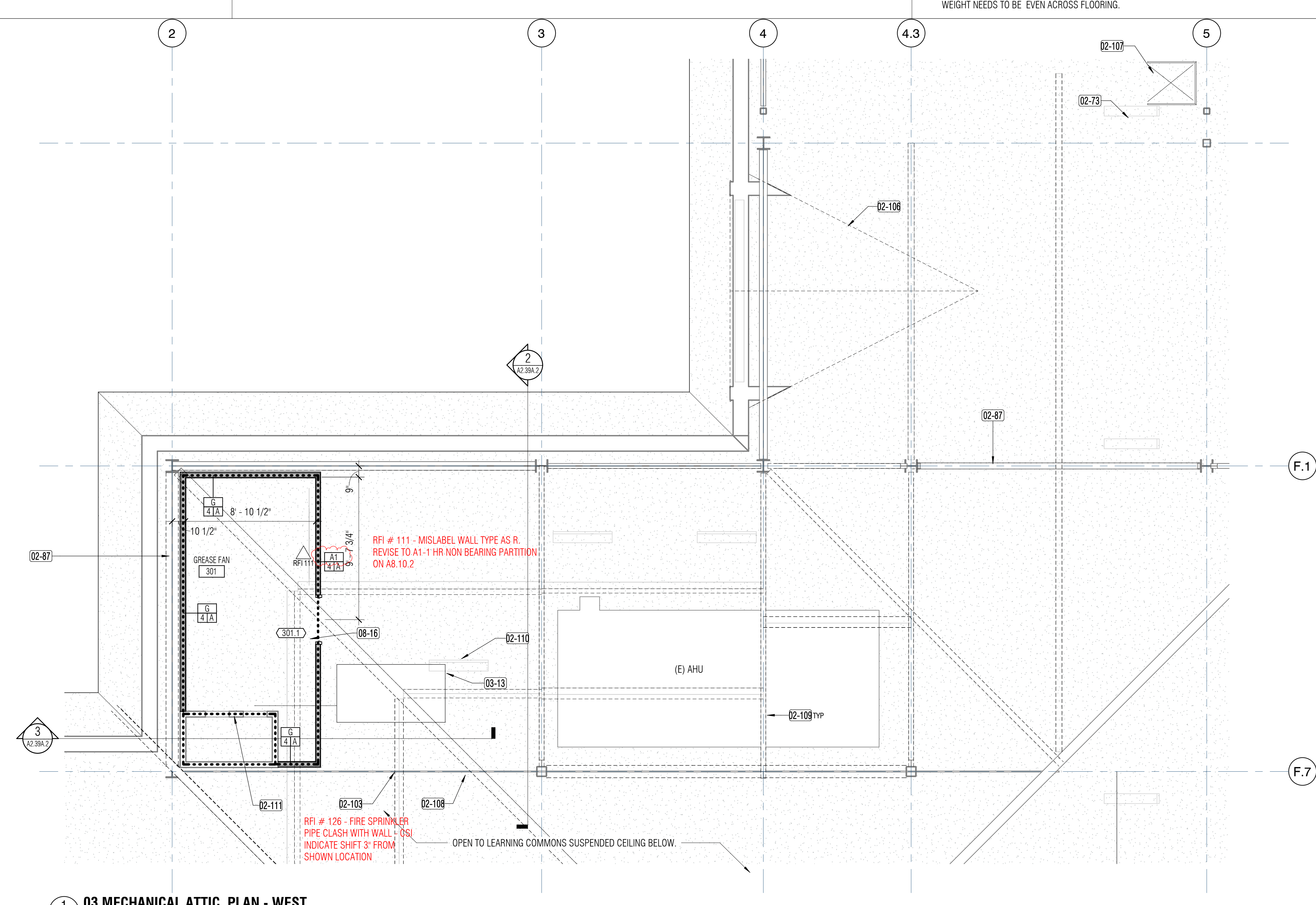
SHEET TITLE
NEW - 3RD FLOOR - WEST - PARTIAL MECHANICAL ATTIC/ROOF PLAN

SHEET NUMBER

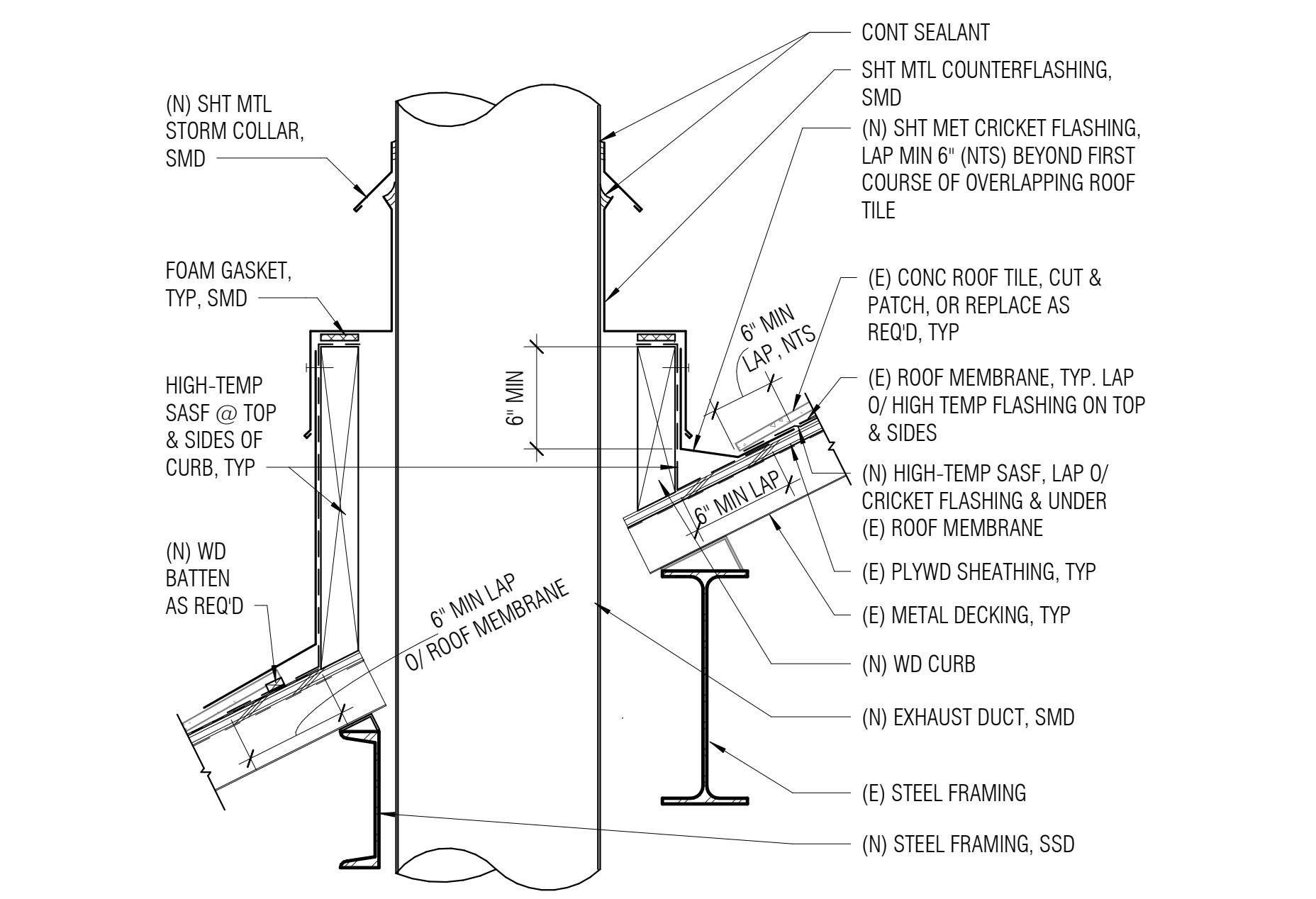
A2.39A.2



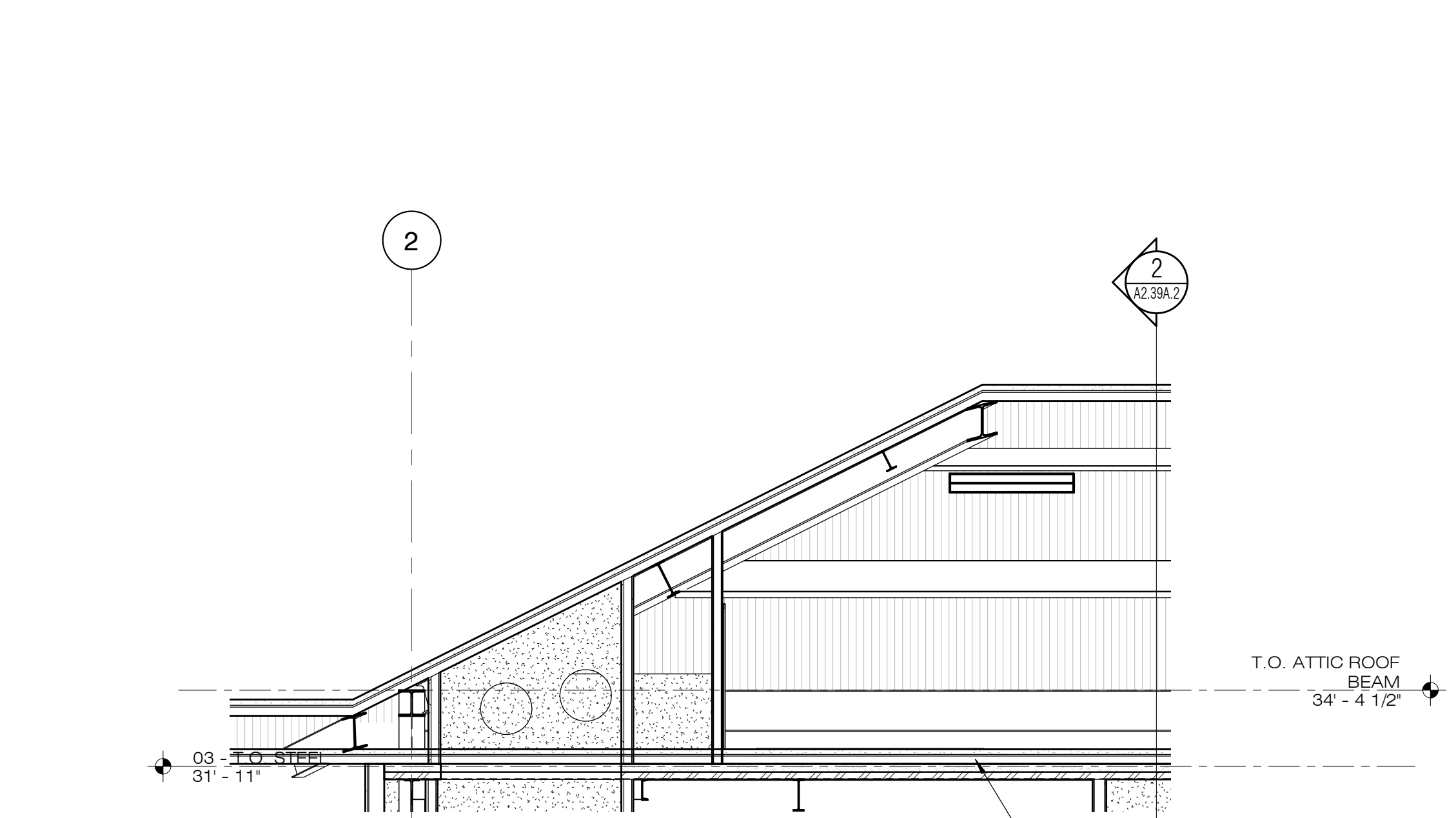
5 03 PARTIAL ROOF PLAN - WEST
1/4" = 1'-0"



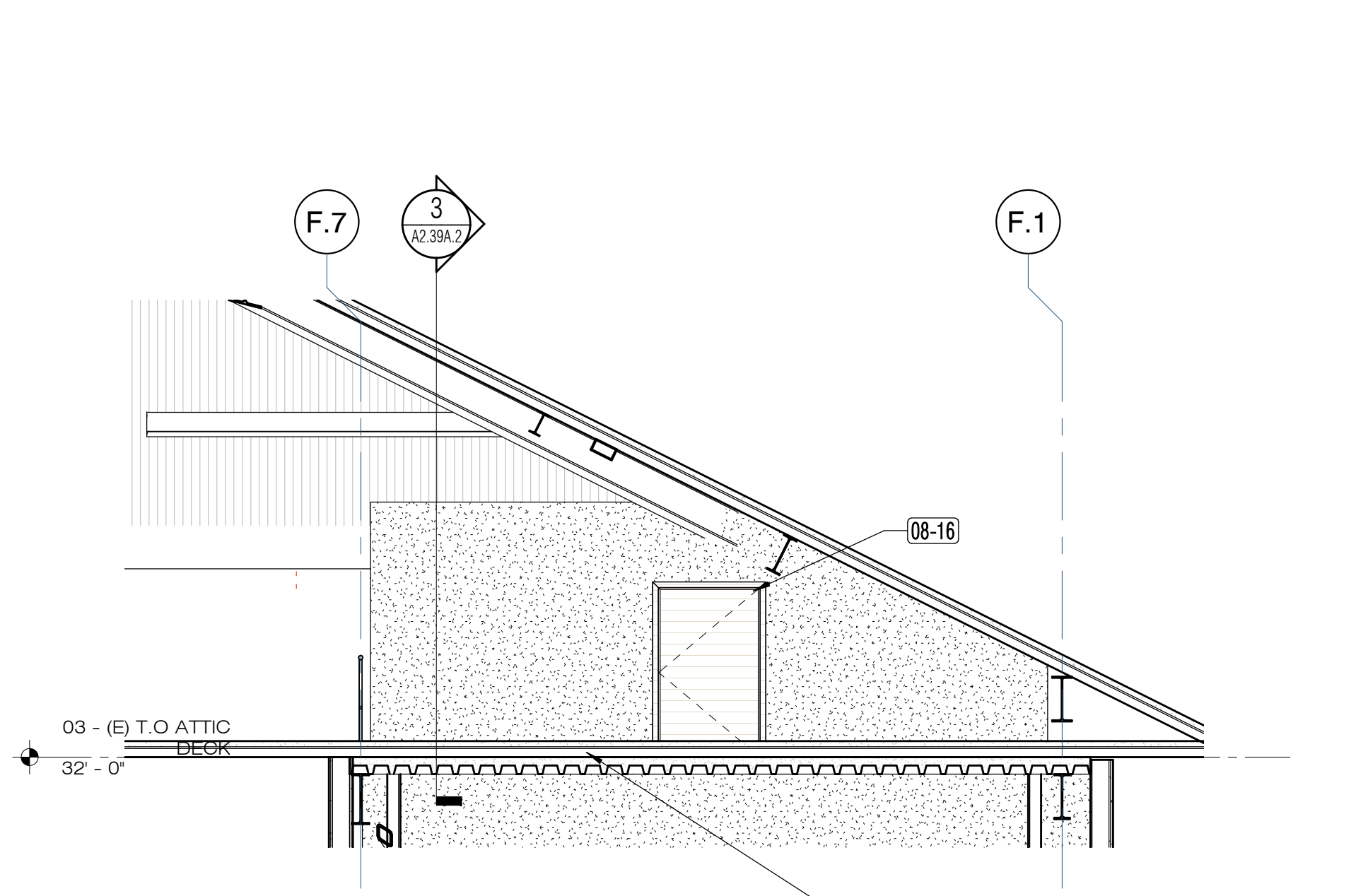
1 03 MECHANICAL ATTIC PLAN - WEST
1/4" = 1'-0"



4 FLASHING @ (N) ROOF EXHAUST
1 1/2" = 1'-0"



3 MECHANICAL ATTIC - NORTH
1/4" = 1'-0"



2 03 MECHANICAL ATTIC - WEST - SECTION AT NEW EQUIPMENT
1/4" = 1'-0"

KEY NOTES

| KEYNOTE LEGEND | |
|----------------|---------------------|
| Key Value | Keynote Text |
| 05-04 | METAL ACCESS LADDER |
| 06-19 | WOOD TRUSS, SSD |
| 06-26 | GLULAM BEAM, SSD |

SHEET NOTES

- FOR PARTITION TYPES AT LEVEL 1, SEE FLOOR PLAN.
- FOR PLATFORM PERIMETER, SEE FLOOR PLAN DIMENSIONS. EDGE OF PLATFORM TO ALIGN WITH FOS OF WALLS BELOW.
- FOR BRACING @ WALLS PARALLEL TO ROOF FRAMING, SEE ¹A8182
- FOR BRACING @ WALLS PERPENDICULAR TO ROOF FRAMING, SEE ²A8182

LEGEND

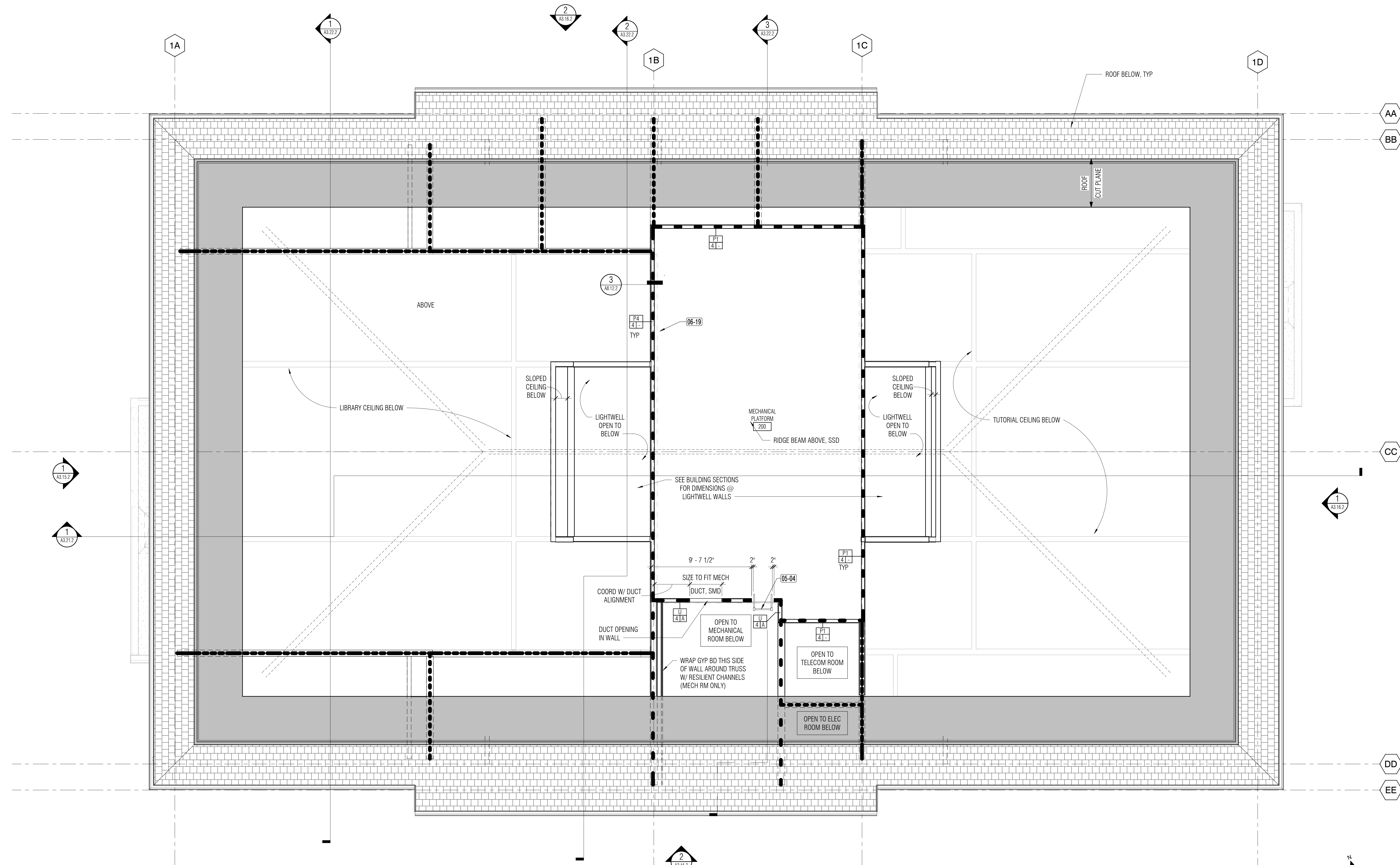
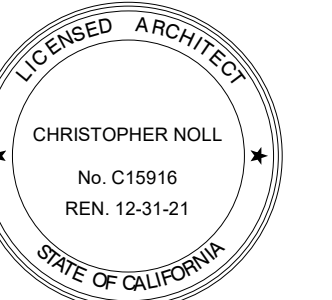
- PARTITION EXTENDS TO UNDERSIDE OF ROOF (PROVIDE BRACING WHERE WALL W/2x4 STUDS EXCEEDS 14'-0" HT)
- PARTITION HT @ 14'-0" (PROVIDE BRACING)
- PARTITION HT @ 10'-6" (PROVIDE BRACING)

APPROVALS

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fax 510.542.2201

ARCHITECTS SEAL



PROJECT TITLE

**CONTRA COSTA
CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION &
RENOVATION**

1690 Watermill Rd.
San Ramon, CA 94582

RECORD SET:

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ISSUE TITLE

INCREMENT 2

ISSUE DATE 5/30/2019

NOLL & TAM JOB NUMBER 21630

REVISIONS

| DATE | DESCRIPTION |
|------|-------------|
| | |

SHEET TITLE
**MECHANICAL
PLATFORM PLAN -
LIBRARY LEARNING
RESOURCE CENTER**

SHEET NUMBER

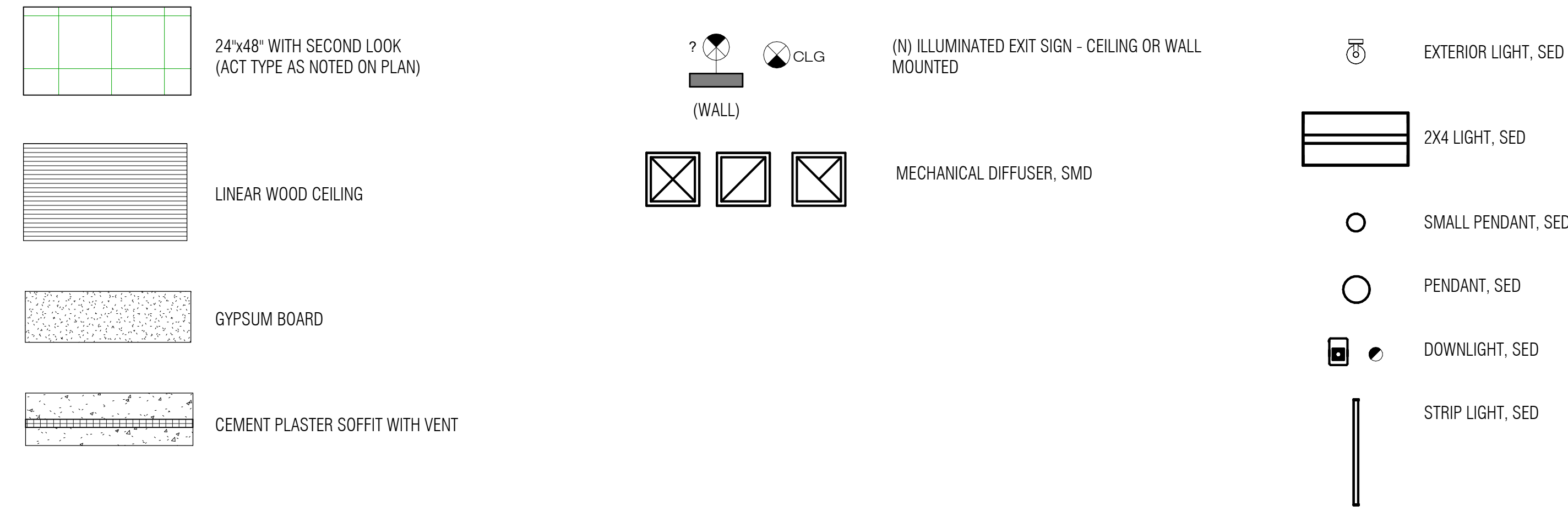
A2.40.2

1 T O DECK @ MECHANICAL PLATFORM

A2.40.2 1/4" = 1'-0"

RCP LEGEND

(SYMBOLS SHOWN - NOT ALL WILL BE USED ON PLAN SMD, SED, SPD FOR ADDITIONAL LEGEND INFORMATION)



KEY NOTES

| Key Value | Keynote Text |
|-----------|---|
| 06-26 | GLULAM BEAM, SSD |
| 09-20 | GYPSUM BOARD FINISH AROUND GLU-LAM BEAM - EXPOSED AT SKYLIGHT WELL |
| 09-42 | LINEAR WOOD CEILING OCCURS ABOVE THE INTERIOR ENTRY SOFFIT - EXTENDS TO THE EXTERIOR WALL GRIDLINE 1A ON LIBRARY SIDE, GRIDLINE 1D ON THE TUTORIAL SIDE |
| 11-35 | MOVABLE CONDIMENT CART, SEE FOOD SERVICE DRAWINGS. |
| 11-39 | SHORT THROW PROJECTOR & MOUNT, OFCL |
| 26-08 | NEW LIGHT FIXTURES (PENDANT, RECESSED, ETC) SED |

RFI #271 - OWNER REQUEST TO CONCEAL MEP MATERIALS AND FRAMING ABOVE WOOD GRILLE CEILING - ADD BLACK FACE INSULATION AT GAP, MIN 12" WIDE, THROUGHOUT

SHEET NOTES

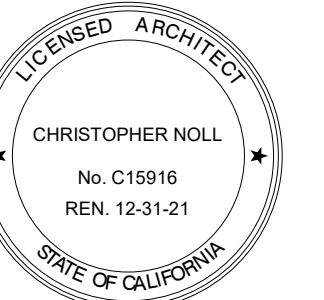
- SEE FLOOR PLANS, SSD, SMP, SED, SPD, SFAD, SFSD, STED FOR MORE INFORMATION @ DEMO AND NEW.
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- ACOUSTIC TILE GRID SHALL BE CENTERED IN ROOM UNON.
- FOR PROJECTOR MOUNTING DETAIL, SEE 6/A8.3.1. FINAL LOCATION OF PROJECTORS TO BE COORDINATED WITH OWNER.
- ALTERATIONS TO EXISTING ACT CEILINGS WHERE GRID AREA CUT OR ALTERED IS LESS THAN 10% OF THE ENTIRE CEILING AREA:
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 - VERIFY IN FIELD THAT THE GAUGE AND SPACING OF THE EXISTING WIRES COMPLY WITH DETAILS ON SHEET A8.31.2.
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 - ALL EXISTING BRACING WIRE/ANCHOR ASSEMBLIES MUST BE FIELD TESTED TO 440 LBS.
 - PATCH AND REPAIR CEILING GRID TO MEET THE REQUIREMENTS OF THE SUSPENDED ACOUSTICAL CEILING DETAILS ON SHEET A8.31.2.
 - PROVIDE NEW ACT TILES AS INDICATED ON NEW RCP PLANS.
- ALTERATIONS TO ACT CEILINGS NOTED AS EXISTING TO REMAIN: IF THE GRID AREA CUT OR ALTERED EXCEEDS 10% OF THE ENTIRE CEILING AREA, THE ENTIRE CEILING IN THE AFFECTED SPACE SHALL BE UPGRADED TO MEET ALL BRACING & SUPPORT REQUIREMENTS FOR NEW CEILINGS. SEE SHEET A8.3.1.1

APPROVALS

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ARCHITECTS SEAL



PROJECT TITLE

**CONTRA COSTA
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ISSUE TITLE

INCREMENT 2

ISSUE DATE 5/30/2019

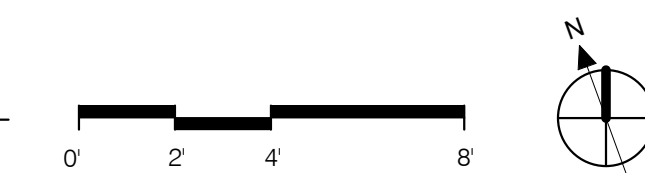
NOLL & TAM JOB NUMBER 21630

| REVISIONS | DATE | DESCRIPTION |
|-----------|---------|--------------|
| 1 | 7/29/20 | INC2 RFI 122 |
| 2 | 7/21/20 | INC2 RFI 112 |

SHEET TITLE
**REFLECTED CEILING
PLAN - LIBRARY
LEARNING RESOURCE
CENTER**



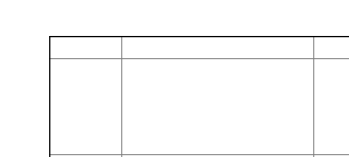
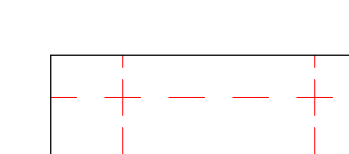
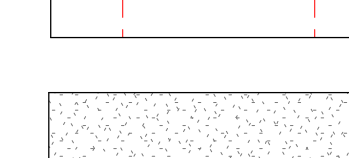
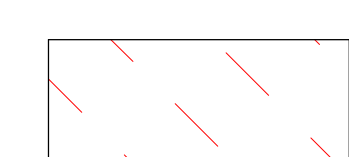
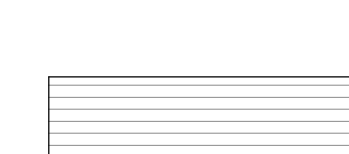
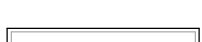

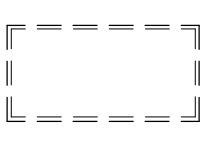
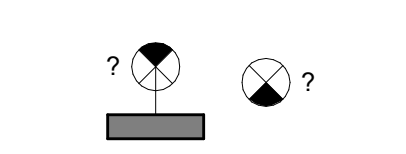
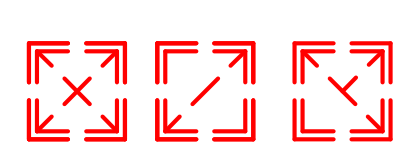
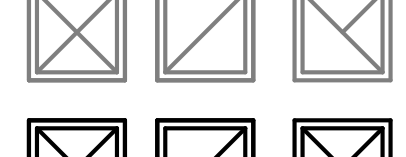
SHEET NUMBER

A2.41.2



RCP LEGEND

(SYMBOLS SHOWN - NOT ALL WILL BE USED ON PLAN SMD, SED, SPD FOR ADDITIONAL LEGEND INFORMATION)

-  (E) PARTITION TO REMAIN, OUTSIDE AREA OF WORK
-  (E) PARTITION TO BE REMOVED
-  (E) 24"x48" ACT SUSPENDED GRID CEILING TO REMAIN
-  (E) 24"x48" CEILING PANELS AND SUPPORT GRID TO BE REMOVED
-  (E) GYP BD CEILING TO REMAIN
-  (E) GYP BD CEILING TO BE REMOVED
-  (E) EXPOSED METAL DECK
-  (E) LIGHT FIXTURE TO REMAIN, SED
-  (E) LIGHT FIXTURE TO BE REMOVED, SED
-  (E) ILLUMINATED EXIT SIGN TO BE REMOVED
-  (E) MECHANICAL DIFFUSER TO BE REMOVED, SMD
-  (E) MECHANICAL DIFFUSER TO REMAIN, SMD
-  (N) MECHANICAL DIFFUSER, SMD

KEY NOTES

| Key Value | Keynote Text |
|-----------|---|
| 02-35 | REMOVE EXISTING LIGHT FIXTURES (RECESSED, PENDANTS, ETC) SED |
| 02-97 | REMOVE EXISTING ACOUSTIC CEILING PANELS. EXISTING CEILING GRID SYSTEM TO REMAIN. |
| 02-105 | REMOVE & REPLACE PORTION OF EXISTING CEILING, AS REQUIRED FOR INSTALLATION OF NEW ATTIC MECHANICAL EQUIPMENT. LIMIT MODIFIED AREA TO LESS THAN 10% THE ENTIRE CEILING AREA. SEE SHEET NOTES 5 & 6 THIS SHEET. |
| 02-113 | EXISTING SHADE POCKETS @ BOOKSTORE NORTH WALL: PROTECT IN PLACE, OR REMOVE AND RETAIN FOR REINSTALLATION IN SAME LOCATION. |

SHEET NOTES

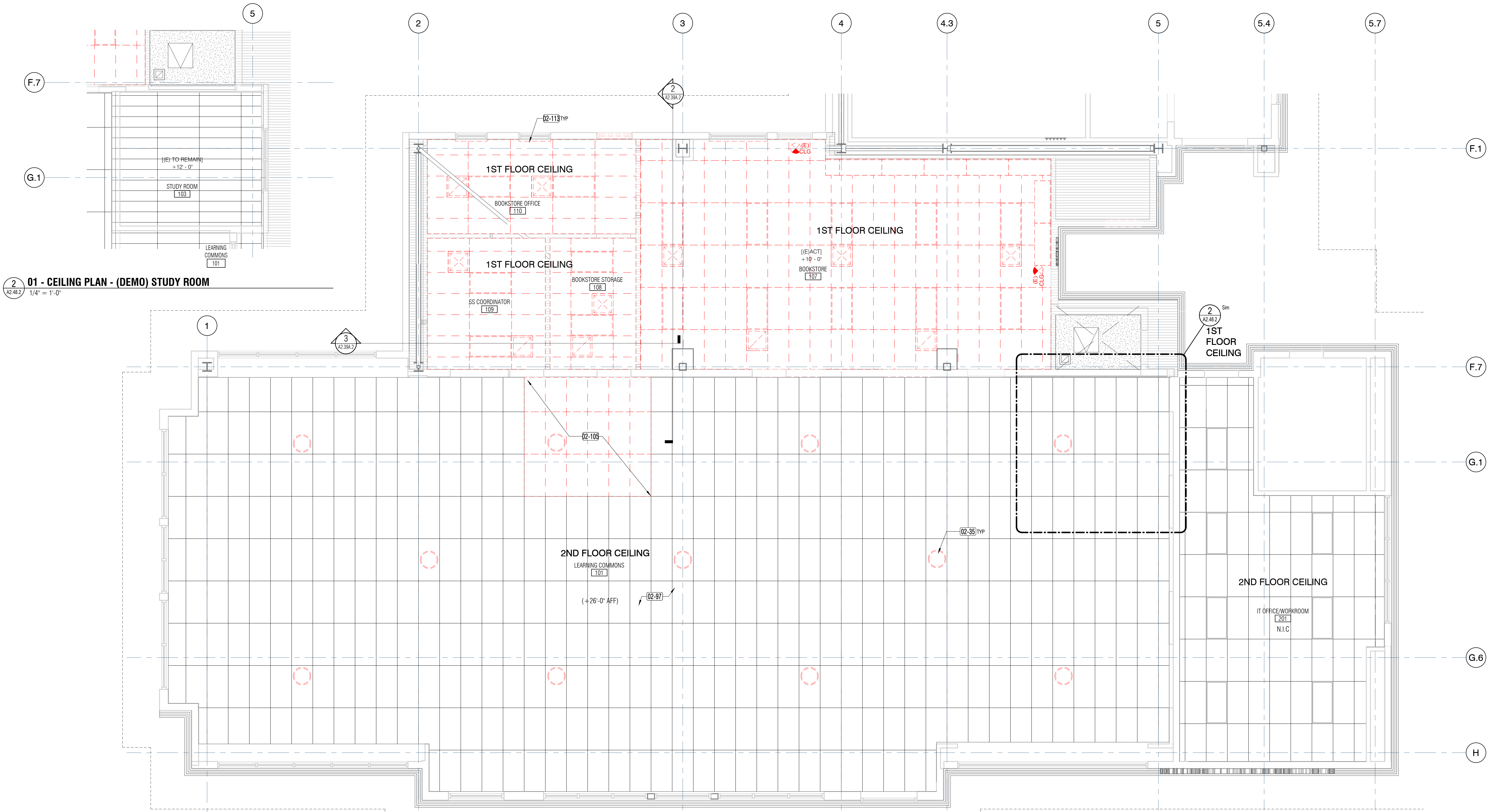
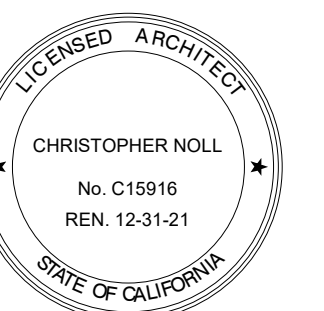
1. SEE FLOOR PLANS, SSD, SMP, SED, SPD, SFAD, SFSD, STED FOR MORE INFORMATION @ DEMO AND NEW.
2. SEE ROOM FINISH SCHEDULE FOR ADDITIONAL INFORMATION.
3. ACOUSTIC TILE GRID SHALL BE CENTERED IN ROOM UNON.
4. FOR PROJECTOR MOUNTING DETAIL SEE 6/A8.33.1. FINAL LOCATION OF PROJECTORS TO BE COORDINATED WITH OWNER.
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 - A. RE-USE OF EXISTING CEILING HANGER WIRES AND BRACING WIRES. THE INSTALLING CONTRACTOR IS TO PERFORM THE FOLLOWING OBSERVATIONS & FIELD TESTS & REPLACE ALL EXISTING WIRE/ANCHOR ASSEMBLIES THAT FAIL TO MEET THE INDICATED REQUIREMENTS:
 - a. VERIFY IN FIELD THAT THE GAUGE AND SPACING OF THE EXISTING WIRES COMPLY WITH DETAILS ON SHEET A8.31.2.
 - b. ALL EXISTING CEILING HANGER WIRE/ANCHOR ASSEMBLIES MUST BE FIELD TESTED TO 200 LBS.
 - c. ALL EXISTING BRACING WIRE/ANCHOR ASSEMBLIES MUST BE FIELD TESTED TO 440 LBS.
 - B. PATCH AND REPAIR CEILING GRID TO MEET THE REQUIREMENTS OF THE SUSPENDED ACOUSTICAL CEILING DETAILS ON SHEET A8.31.2.
 - C. PROVIDE NEW ACT TILES AS INDICATED ON NEW RCP PLANS.
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APPROVALS

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ARCHITECTS SEAL



01 - CEILING PLAN - (DEMO) STUDY ROOM
A2.48.2 1/4" = 1'-0"

02 - CEILING PLAN (DEMO) - LEARNING COMMONS - 01 - CEILING PLAN (DEMO) BOOKSTORE - SS COORD
A2.48.2 1/4" = 1'-0"

PROJECT TITLE

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D-4002
DVC SAN RAMON
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NOLL & TAM JOB NUMBER 21630

REVISIONS

DATE DESCRIPTION

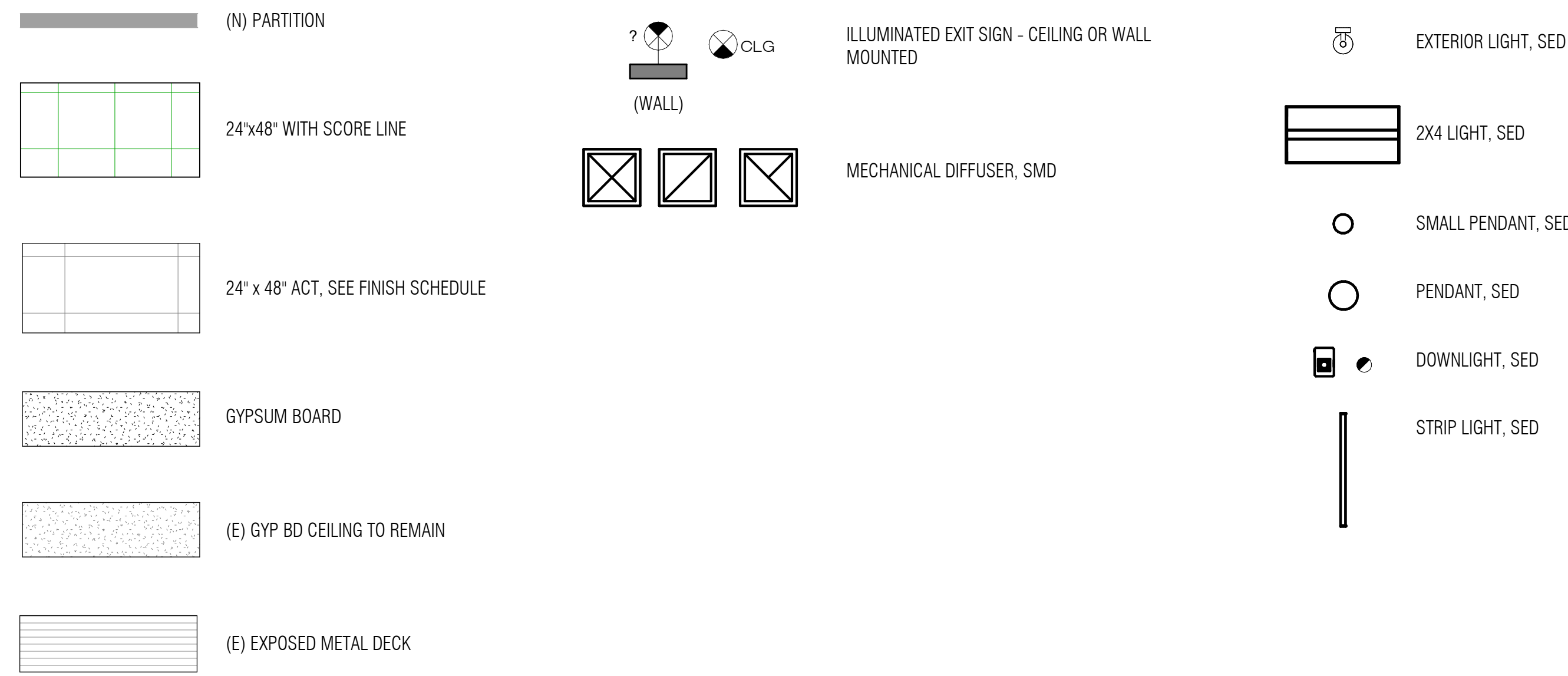
SHEET TITLE
DEMO RCP - 2ND FLOOR - WEST - LEARNING COMMONS

SHEET NUMBER

A2.48.2

RCP LEGEND

(SYMBOLS SHOWN - NOT ALL WILL BE USED ON PLAN SMD, SED, SPD FOR ADDITIONAL LEGEND INFORMATION)



KEY NOTES

| Key Value | Keynote Text |
|-----------|---|
| 02-105 | REMOVE & REPLACE PORTION OF EXISTING CEILING, AS REQUIRED FOR INSTALLATION OF NEW ATTIC MECHANICAL EQUIPMENT. LIMIT MODIFIED AREA TO LESS THAN 10% THE ENTIRE CEILING AREA. SEE SHEET NOTES 5 & 6 THIS SHEET. |
| 02-113 | EXISTING SHADE POCKETS @ BOOKSTORE NORTH WALL: PROTECT IN PLACE, OR REMOVE AND RETAIN FOR REINSTALLATION IN SAME LOCATION. |
| 09-02 | NEW GYPSUM BOARD CEILING, FRAMED OR SUSPENSION TYPE |
| 09-29 | REPLACE EXISTING 2X4 ACOUSTICAL PANELS WITH NEW AT EXISTING CEILING GRID SYSTEM. EXISTING DIFFUSERS, WHERE OCCURS, SHALL REMAIN. |
| 11-38 | KITCHEN EXHAUST HOOD. SEE FOOD SERVICE DRAWINGS, SMD, SSD. SEE 4/S7.01.2 FOR STRUCTURAL FRAMING FOR MOUNTING OF HOODS |
| 26-08 | NEW LIGHT FIXTURES (PENDANT, RECESSED, ETC) SED |

SHEET NOTES

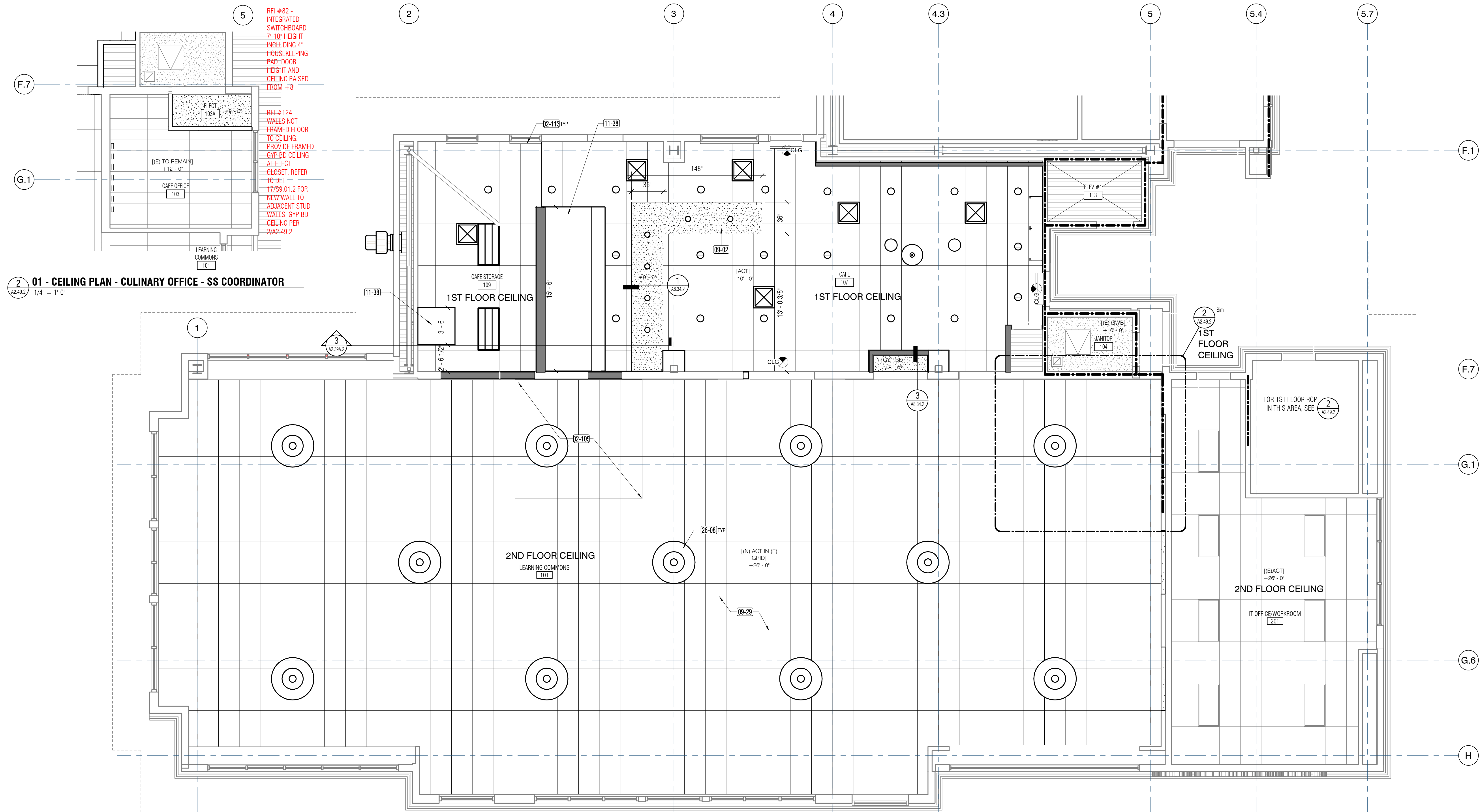
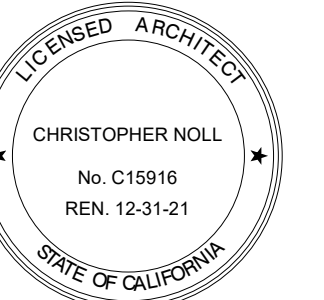
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APPROVALS

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ARCHITECTS SEAL



01 - CEILING PLAN - CULINARY OFFICE - SS COORDINATOR
1/4" = 1'-0"

01 - CEILING PLAN - CAFE AREA & LEARNING COMMONS
1/4" = 1'-0"

PROJECT TITLE

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D-4002
DVC SAN RAMON
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DATE DESCRIPTION

SHEET TITLE
**NEW RCP - 1ST FLOOR
- WEST - CAFE &
LEARNING COMMONS**

SHEET NUMBER

A2.49.2

KEY NOTES

| Key Value | Keynote Text |
|-----------|--------------------|
| 07-01 | CONCRETE TILE ROOF |

GENERAL NOTES

1. EXISTING BUILDING IS FIRE-SPRINKLERED. NEW BUILDING SHALL ALSO BE FIRE-SPRINKLERED.

GENERAL NOTES: SOLAR READY

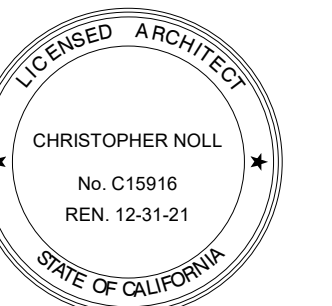
1. ROOF AREA IS 7142 SF. 15% OF ROOF AREA TO BE SOLAR READY. 0.15 X 7142SF = 1,071 SF
2. REFER TO ELECTRICAL OR PLUMBING SYSTEM FOR PLAN FOR CONNECTING PV OR SWH SYSTEM. SEE FOR LOCATION OF INVERTER AND METERING EQUIPMENT. PATHWAY FOR INTERCONNECTION OF SERVICE. CONDUIT INSTALLATION IS NOT REQUIRED. PATHWAY ROUTING FOR PLUMBING FROM SOLAR ZONE TO WATER HEATING SYSTEM. PIPING INSTALLATION IS NOT REQUIRED
3. REFER TO STRUCTURAL DWG FOR STRUCTURAL DESIGN LOADS FOR ROOF DEAD LOAD AND ROOF LIVE LOAD.
4. NO INFRASTRUCTURE IS REQUIRED TO MEET ENERGY STANDARDS.

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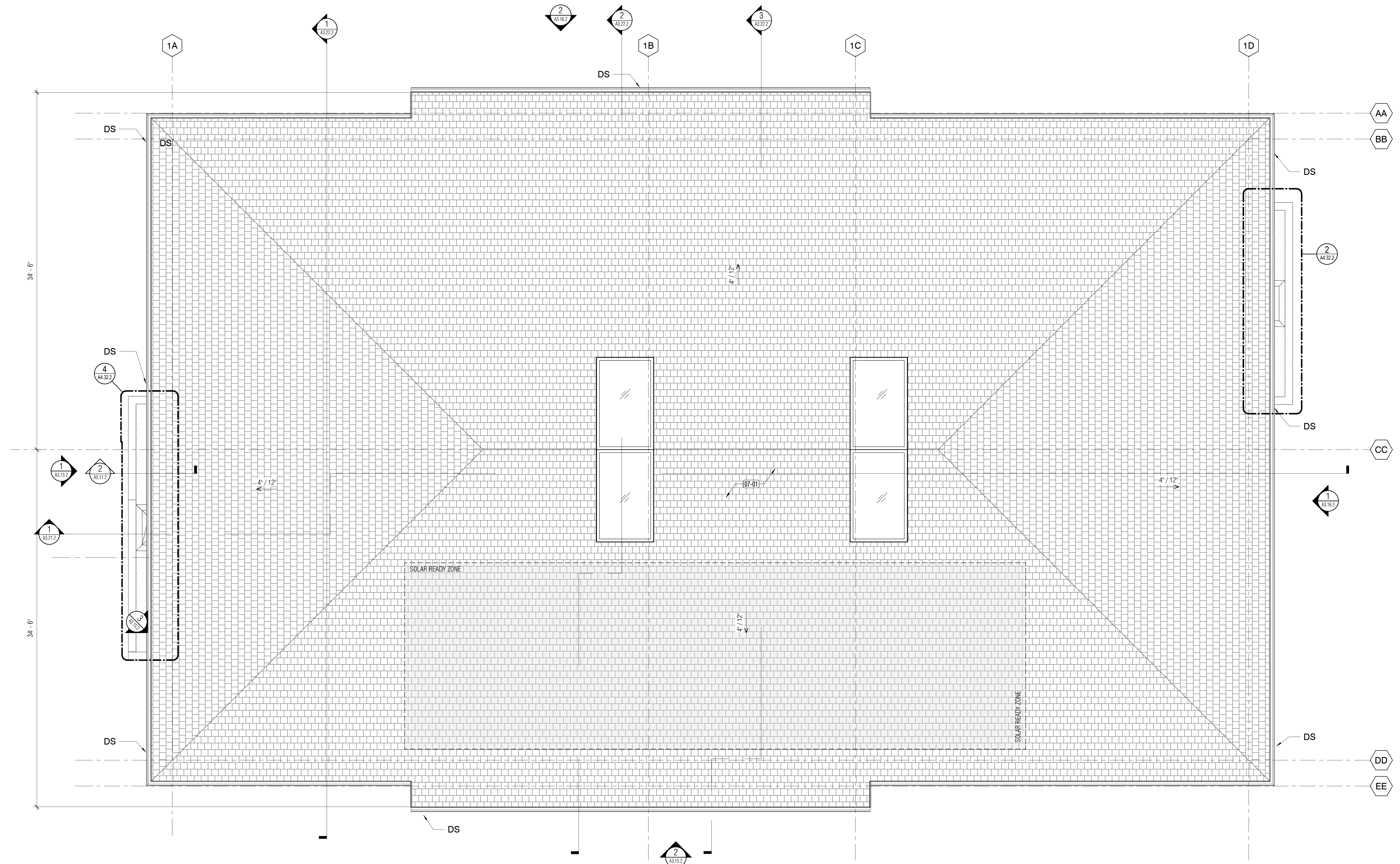
REVISIONS

DATE DESCRIPTION

SHEET TITLE
**ROOF PLAN - LIBRARY
LEARNING RESOURCE
CENTER**

SHEET NUMBER

A2.51.2



1 ROOF PLAN - LIBRARY LEARNING RESOURCE CENTER
A2.51.2 1/4" = 1'-0"

9/11/2023 3:32:28 PM C:\Users\pham.duong\Documents\Revit Local\DCSR Expansion_Central_2020_2021_pham.duong@collabniam.com.rvt

KEY NOTES

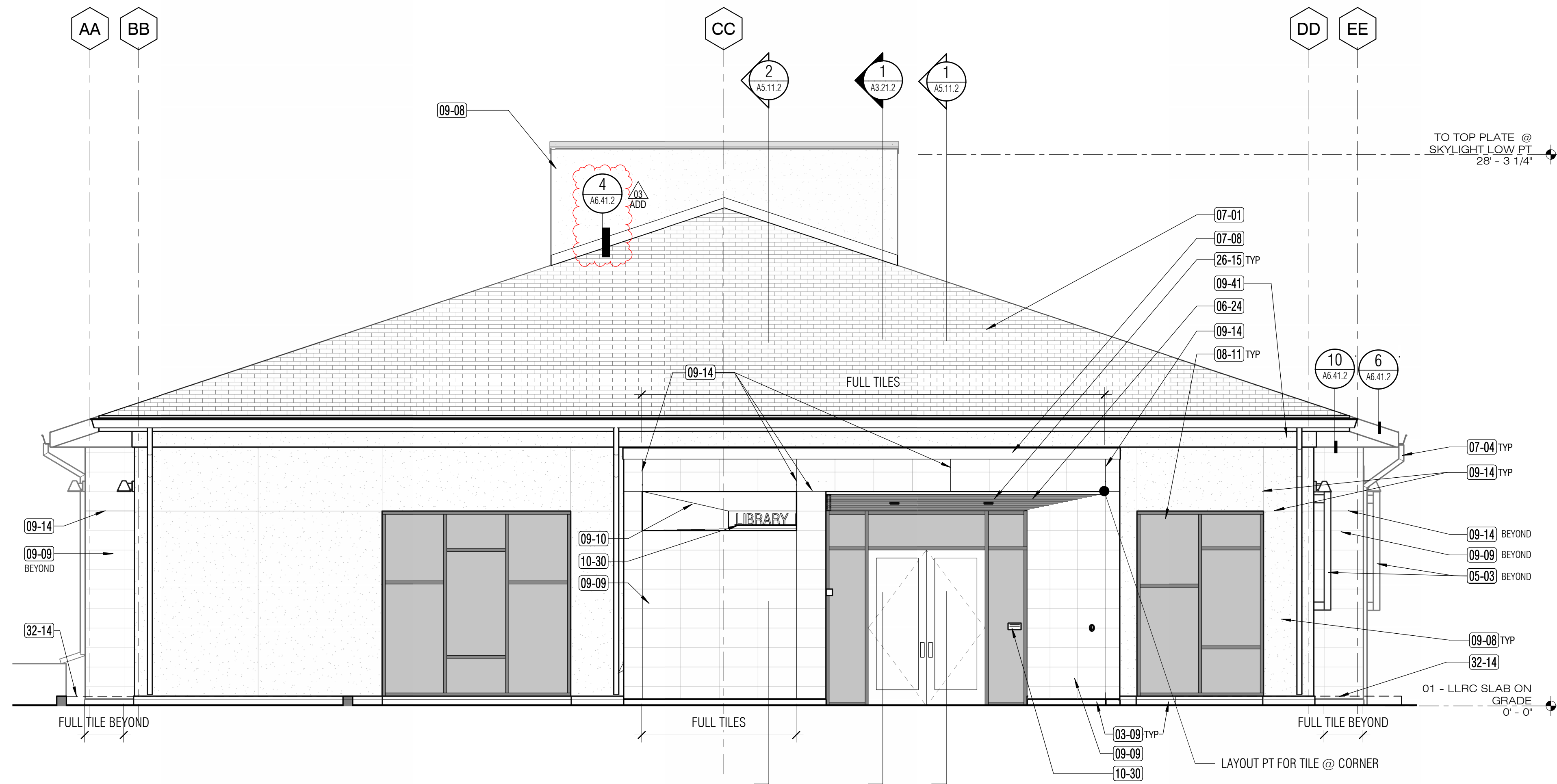
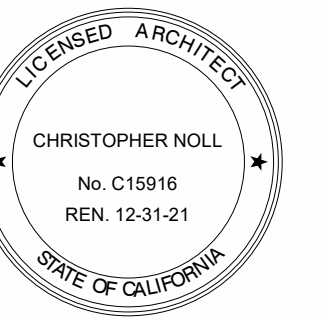
| Key Value | Keynote Text |
|-----------|--|
| 03-09 | CONCRETE CURB WITH ELASTOMERIC COATING |
| 05-03 | METAL SUN SHADE |
| 06-24 | EXTERIOR SOFFIT WITH WOOD SLATS |
| 07-01 | CONCRETE TILE ROOF |
| 07-04 | 3" DIA DOWNSPOUT |
| 07-08 | SHEET METAL COPING |
| 08-04 | (N) WALL MOUNTED PUSH PLATE DOOR ACTUATOR |
| 08-10 | (N) STOREFRONT |
| 08-11 | STOREFRONT |
| 08-12 | COMBINATION MECHANICAL RELIEF AIR LOUVER & DAMPER, SMD |
| 08-13 | FIXED MECHANICAL LOUVER, SMD |
| 09-08 | CEMENT PLASTER, PAINTED |
| 09-09 | EXTERIOR TILE |
| 09-10 | TILED RECESS FOR SIGNAGE |
| 09-14 | CONTROL JOINT |
| 09-41 | CEMENT PLASTER OVER FOAM SHAPE |
| 10-29 | NEW SIGN AS SCHEDULED |
| 10-30 | SIGN AS SCHEDULED |
| 22-06 | OVERFLOW ROOF DRAIN, SPD |
| 23-10 | CONDENSER UNIT ON HOUSEKEEPING PAD, SMD |
| 23-13 | CONDENSER UNIT PIPING, SMD, PENETRATE EXTERIOR WALL ABOVE CONCRETE CURB & CONTINUE WITHIN EXTERIOR WALL FRAMING TO CEILING |
| 26-14 | LIGHT FIXTURE AS SCHEDULED, SED |
| 26-15 | NEW LIGHT FIXTURE AS SCHEDULED, SED |
| 32-14 | FLOW THRU PLANTER AREA IN FOREGROUND, SCD & SLD |

APPROVALS

NOLL & TAM
ARCHITECTS

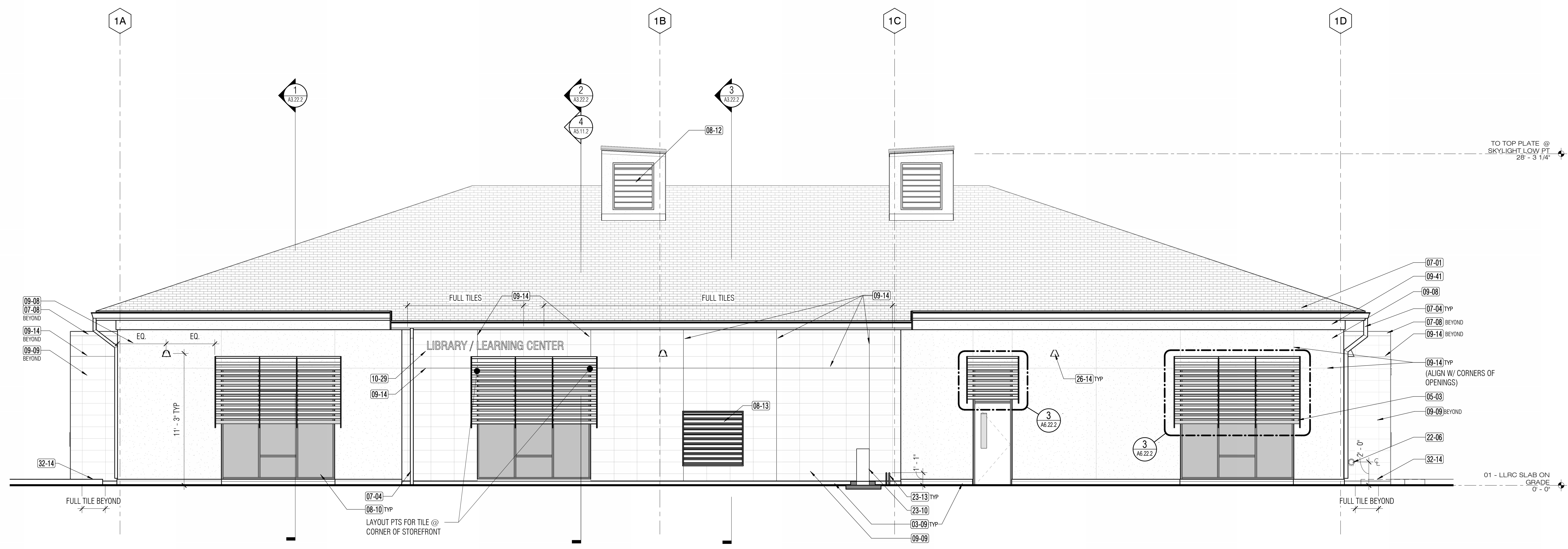
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ARCHITECTS SEAL



1 WEST ELEVATION - LIBRARY LEARNING RESOURCE CENTER
A3.15.2 1/4" = 1'-0"

3 ANGLED WALL @ LLRC ENTRANCE (TUTORIAL SIM)
A3.15.2 1/4" = 1'-0"



2 SOUTH ELEVATION - LIBRARY LEARNING RESOURCE CENTER
A3.15.2 1/4" = 1'-0"

PROJECT TITLE

**CONTRA COSTA
CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION &
RENOVATION**

1690 Watermill Rd.
San Ramon, CA 94582

RECORD SET:

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ISSUE TITLE

INCREMENT 2

ISSUE DATE 5/30/2019

NOLL & TAM JOB NUMBER 21630

| REVISIONS | DATE | DESCRIPTION |
|-----------|---------|---------------------|
| 1 | 8/27/19 | INC 2 - ADDENDUM 03 |

SHEET TITLE

**EXTERIOR
ELEVATIONS -
LIBRARY LEARNING
RESOURCE CENTER**

SHEET NUMBER

A3.15.2

KEY NOTES

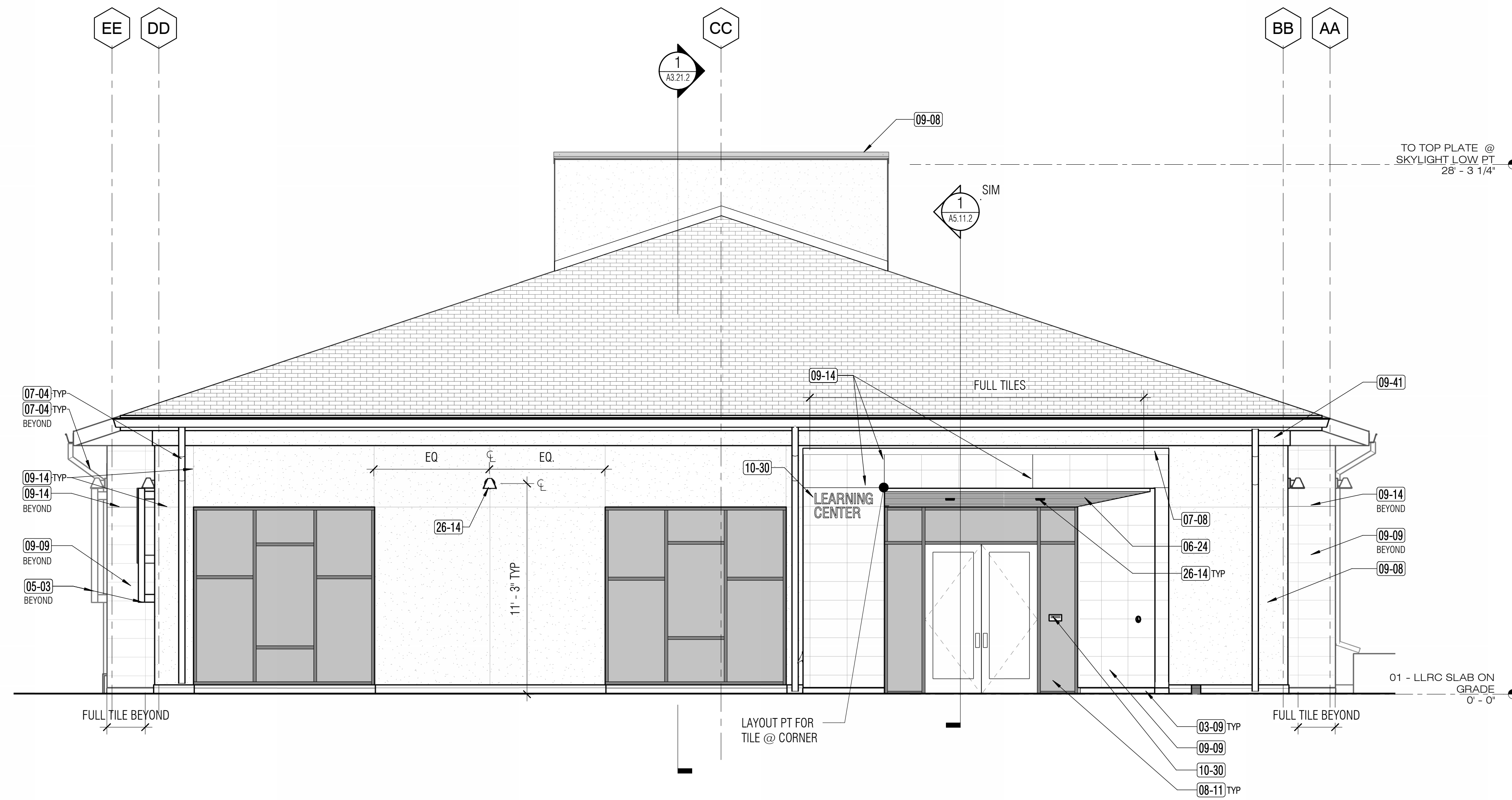
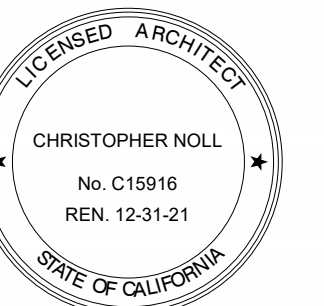
| Key Value | Keynote Text |
|-----------|--|
| 03-09 | CONCRETE CURB WITH ELASTOMERIC COATING |
| 05-03 | METAL SUN SHADE |
| 06-24 | EXTERIOR SOFFIT WITH WOOD SLATS |
| 07-01 | CONCRETE TILE ROOF |
| 07-04 | 3" DIA DOWNSPOUT |
| 07-08 | SHEET METAL COPING |
| 08-11 | STOREFRONT |
| 08-12 | COMBINATION MECHANICAL RELIEF AIR LOUVER & DAMPER, SMD |
| 09-08 | CEMENT PLASTER, PAINTED |
| 09-09 | EXTERIOR TILE |
| 09-14 | CONTROL JOINT |
| 09-41 | CEMENT PLASTER OVER FOAM SHAPE |
| 10-30 | SIGN AS SCHEDULED |
| 22-06 | OVERFLOW ROOF DRAIN, SPD |
| 26-14 | LIGHT FIXTURE AS SCHEDULED, SED |
| 32-08 | EXTEND (E) PLANTING AREA, SLD |

APPROVALS

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ARCHITECTS SEAL



1 EAST ELEVATION - LIBRARY LEARNING RESOURCE CENTER

1/4" = 1'-0"

PROJECT TITLE

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INCREMENT 2

ISSUE DATE 5/30/2019

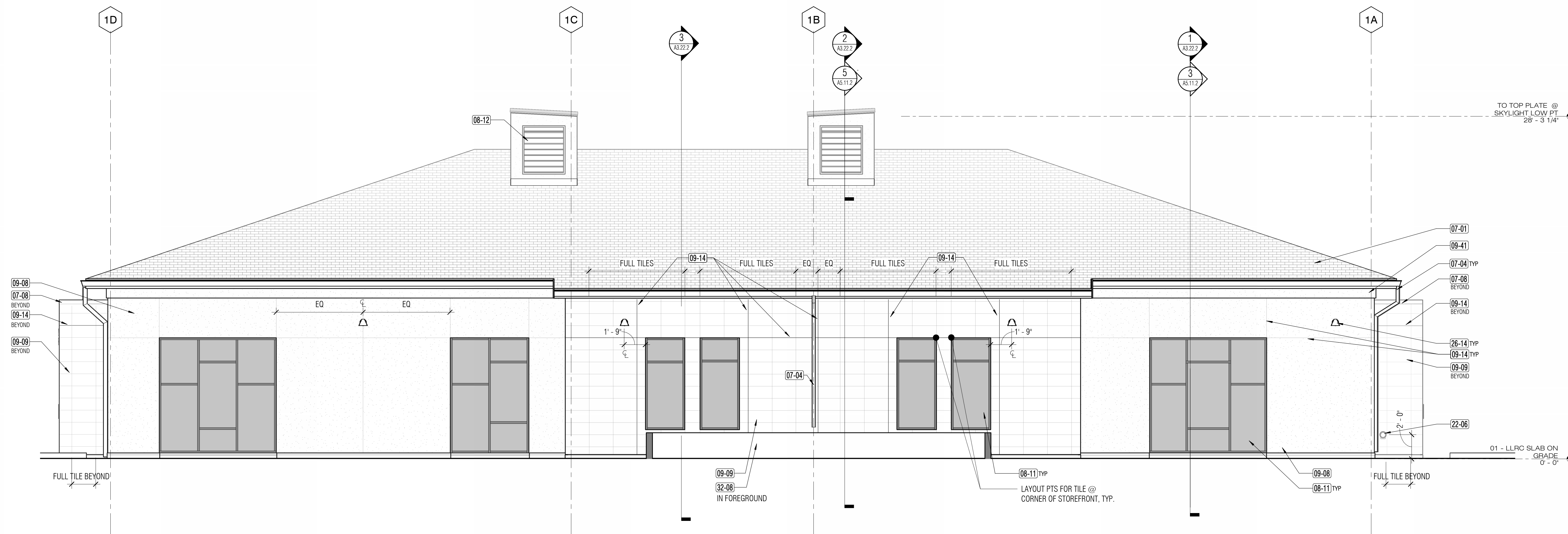
NOLL & TAM JOB NUMBER 21630

REVISIONS
DATE DESCRIPTION

SHEET TITLE
EXTERIOR ELEVATIONS - LIBRARY LEARNING RESOURCE CENTER

SHEET NUMBER

A3.16.2



2 NORTH ELEVATION - LIBRARY LEARNING RESOURCE CENTER

1/4" = 1'-0"

SHEET NOTES

- MECHANICAL, ELECTRICAL, PLUMBING, TECH/DATA, FIRE ALARM AND FIRE PROTECTION INFORMATION NOT SHOWN FOR CLARITY. SEE RESPECTIVE DRAWINGS FOR MORE INFORMATION.
- PROVIDE BRACING AT ALL INTERIOR WALLS THAT DO NOT EXTEND TO UNDERSIDE OF ROOF. BRACING NOT SHOWN IN ALL INSTANCES FOR CLARITY.

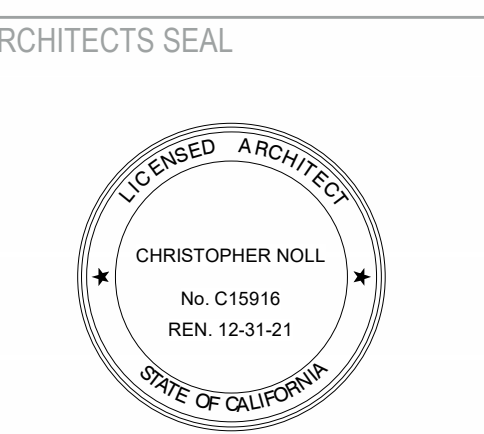
APPROVALS

KEY NOTES

| KEYNOTE LEGEND | |
|----------------|------------------|
| Key Value | Keynote Text |
| 06-19 | WOOD TRUSS, SSD |
| 06-26 | GLULAM BEAM, SSD |
| 09-09 | EXTERIOR TILE |
| 09-14 | CONTROL JOINT |

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PROJECT TITLE

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ISSUE TITLE

INCREMENT 2

ISSUE DATE: 5/30/2019
NOLL & TAM JOB NUMBER: 21630

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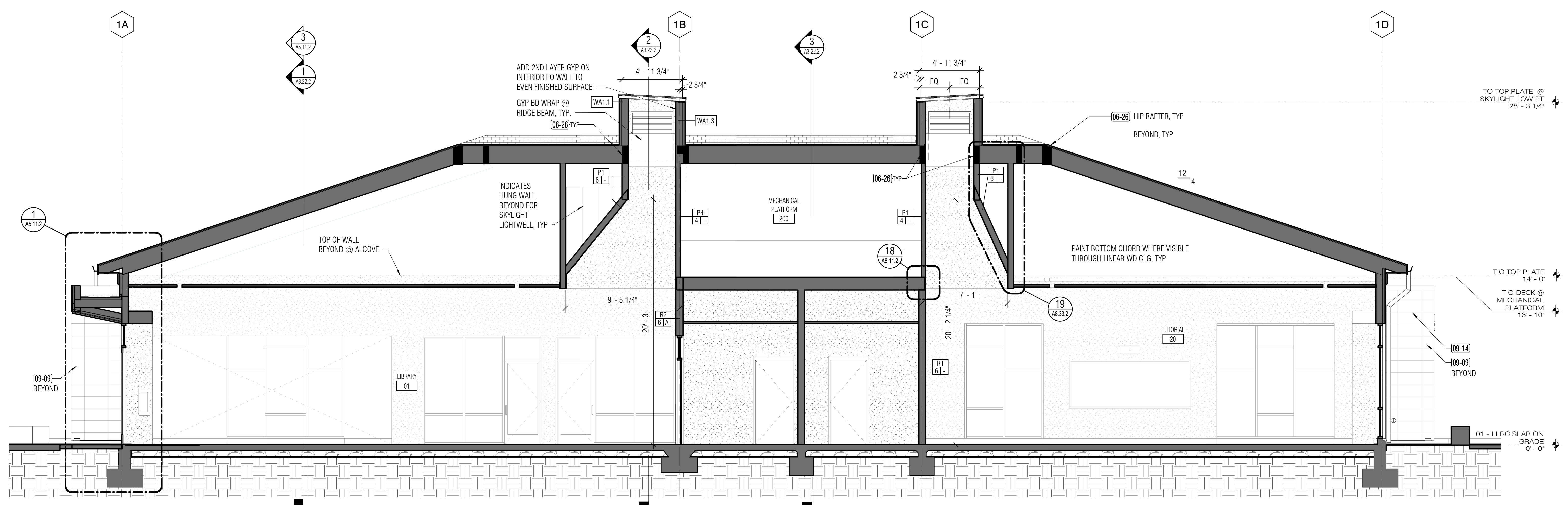
| DATE | DESCRIPTION |
|------|-------------|
| | |

SHEET TITLE

**BUILDING SECTION -
LIBRARY LEARNING
RESOURCE CENTER**

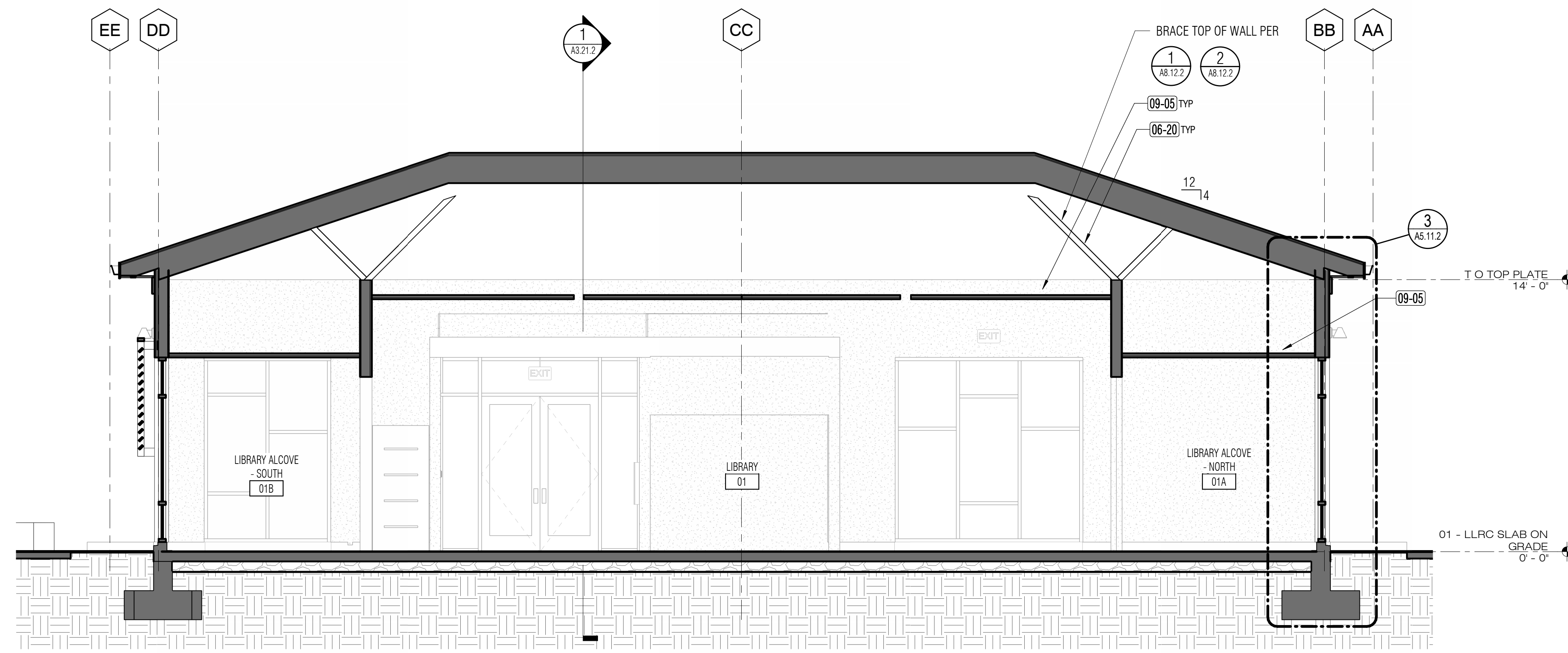
SHEET NUMBER

A3.21.2

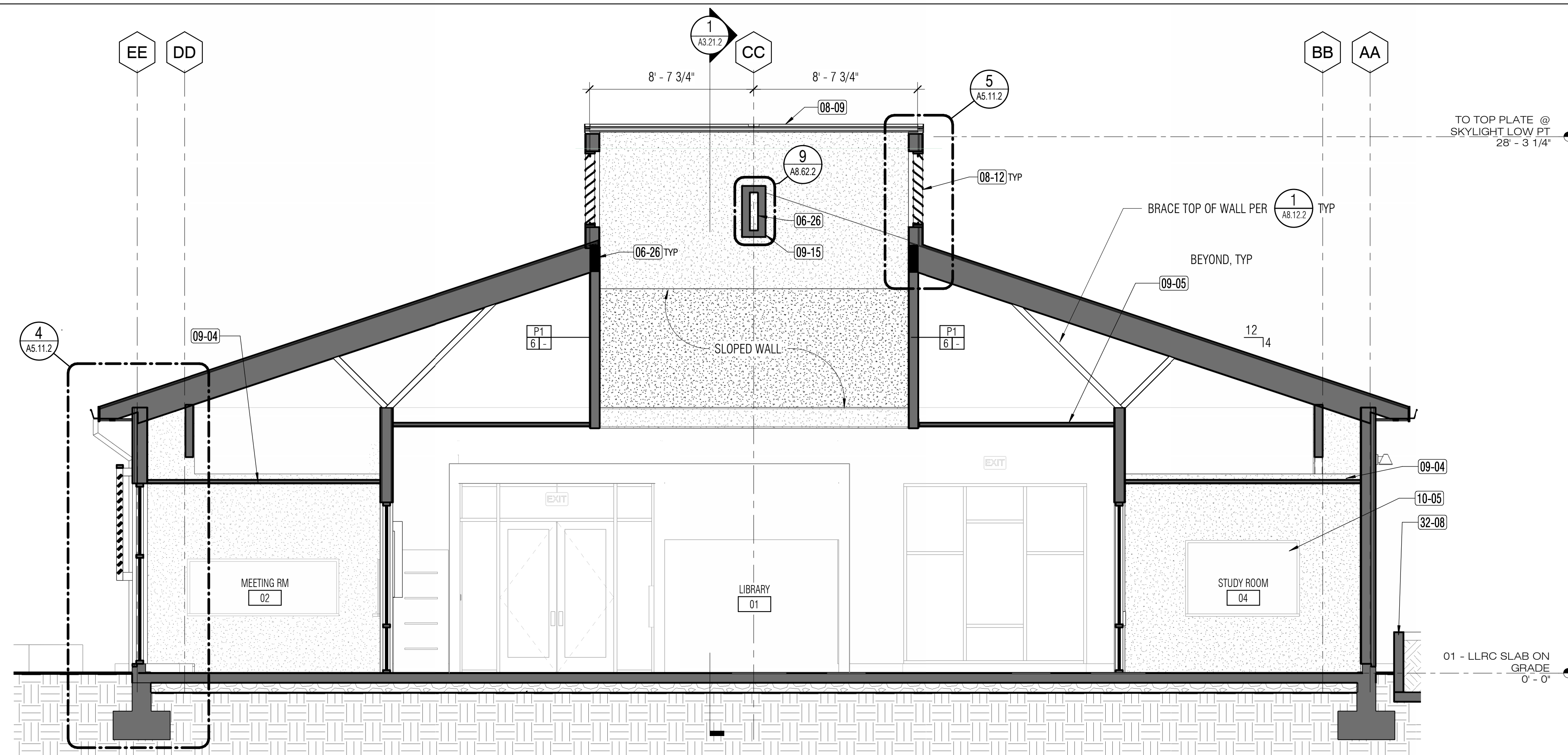


1 BUILDING SECTION - LLRC - THROUGH LIBRARY & TUTORIAL
1/4" = 1'-0"

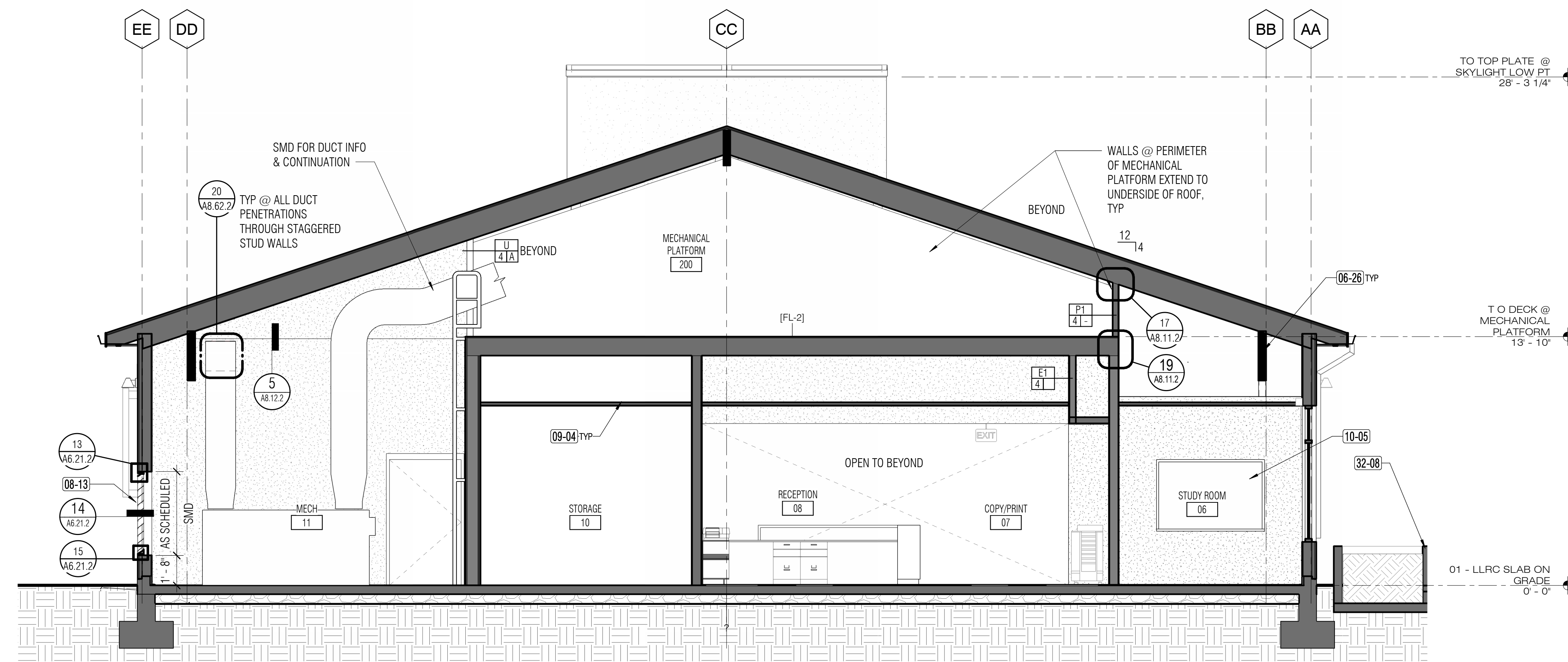
9/11/2023 3:32:55 PM C:\Users\pham.dzung\Documents\Revit\Locales\DV\CSR Expansion_Central_2021.pham.dzung@pobaniam.com.rvt



1 BUILDING SECTION - LLRC - THROUGH LIBRARY
A3.22.2 1/4" = 1'-0"



2 BUILDING SECTION - LLRC - THROUGH SKYLIGHT @ LIBRARY (@ TUTORIAL SIM)
A3.22.2 1/4" = 1'-0"



3 BUILDING SECTION - LLRC - THROUGH RECEPTION
A3.22.2 1/4" = 1'-0"

SHEET NOTES

- MECHANICAL, ELECTRICAL, PLUMBING, TECH/DATA, FIRE ALARM AND FIRE PROTECTION INFORMATION NOT SHOWN FOR CLARITY. SEE RESPECTIVE DRAWINGS FOR MORE INFORMATION.
- PROVIDE BRACING AT ALL INTERIOR WALLS THAT DO NOT EXTEND TO UNDERSIDE OF ROOF. BRACING NOT SHOWN IN ALL INSTANCES FOR CLARITY.

APPROVALS

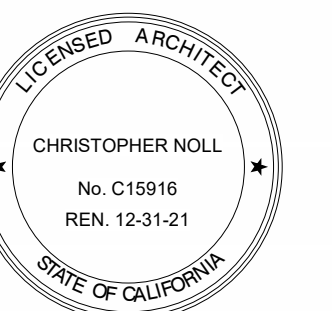
KEY NOTES

| Key Value | Keynote Text |
|-----------|---|
| 06-19 | WOOD TRUSS, SSD |
| 06-20 | 2x WD WALL BRACING, ATTACH TO UNDERSIDE OF ROOF FRAMING |
| 06-26 | GLULAM BEAM, SSD |
| 08-09 | METAL-FRAMED SKYLIGHT |
| 08-12 | COMBINATION MECHANICAL RELIEF AIR LOUVER & DAMPER, SMD |
| 08-13 | FIXED MECHANICAL LOUVER, SMD |
| 09-04 | 2X4 ACOUSTICAL CEILING SYSTEM, SEE FINISH SCHEDULE |
| 09-05 | SUSPENDED LINEAR WOOD CEILING |
| 09-15 | FURRED GYPSUM BD WRAP @ RIDGE BEAM |
| 10-05 | MARKERBOARD |
| 32-08 | EXTEND (E) PLANTING AREA, SLD |

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ARCHITECTS SEAL



PROJECT TITLE

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SHEET TITLE
**BUILDING SECTIONS -
LIBRARY LEARNING
RESOURCE CENTER**

SHEET NUMBER

A3.22.2

GENERAL NOTES - TRASH ENCLOSURE

1. ALL EXPOSED STEEL TO BE SHOP APPLIED GALVANIZED, TOUCH UP IN FIELD AS REQUIRED
2. PAINT GALVANIZED METAL WITH ANTI-CORROSIVE PAINT FOR GALVANIZED SURFACES, TNAMEC OR EQUAL, COLOR TO MATCH EXISTING CAMPUS EXTERIOR BUILDINGS.
3. ALL EXPOSED WELDS TO BE AESS CATEGORY 1
4. CONCRETE CAP & CMU TO MATCH EXISTING CAMPUS CAPS & SPLIT BLOCK COLOR & TEXTURE

KEY NOTES

| Key Value | Keynote Text |
|-----------|----------------------------|
| 22-08 | HOT AND COLD HOSE BIB, SPD |

CCDA_115

TEST ANCHORS AT 80% TENSION LOAD OF CAPACITY IN REPORT AND TEST ALL THE ANCHORS.

IF HIT RE 500 IS NOT AVAILABLE, AN ACCEPTABLE ALTERNATIVE IS HIT HY 270 (ICC ESR-4143).

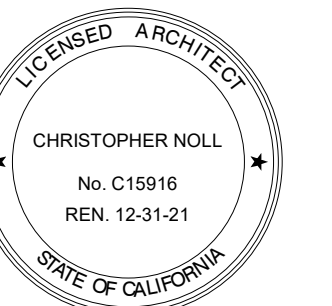
3" DIA. ACCESS HOLE FOR ANCHOR INSTALLATION SHALL BE PATCHED FLUSH WITH HSS GALVANIZED REPAIR REQUIRED. OFFSET HINGES TO THE ACCESS HOLES. SEE UPDATED A4.31.2

RFI #275 - INTERIOR SMOOTH FACE OF CMU TO RECEIVE - 2 FINISH COATS OF MONOCHEM EPOXYGUARD ENAMEL OVER S21 PRIMER. - COLOR TO MATCH CMU WALL COLOR. EXPOSED GALVANIZED STEEL TO MATCH STOREFRONT FRAME COLOR.

NOLL & TAM ARCHITECTS

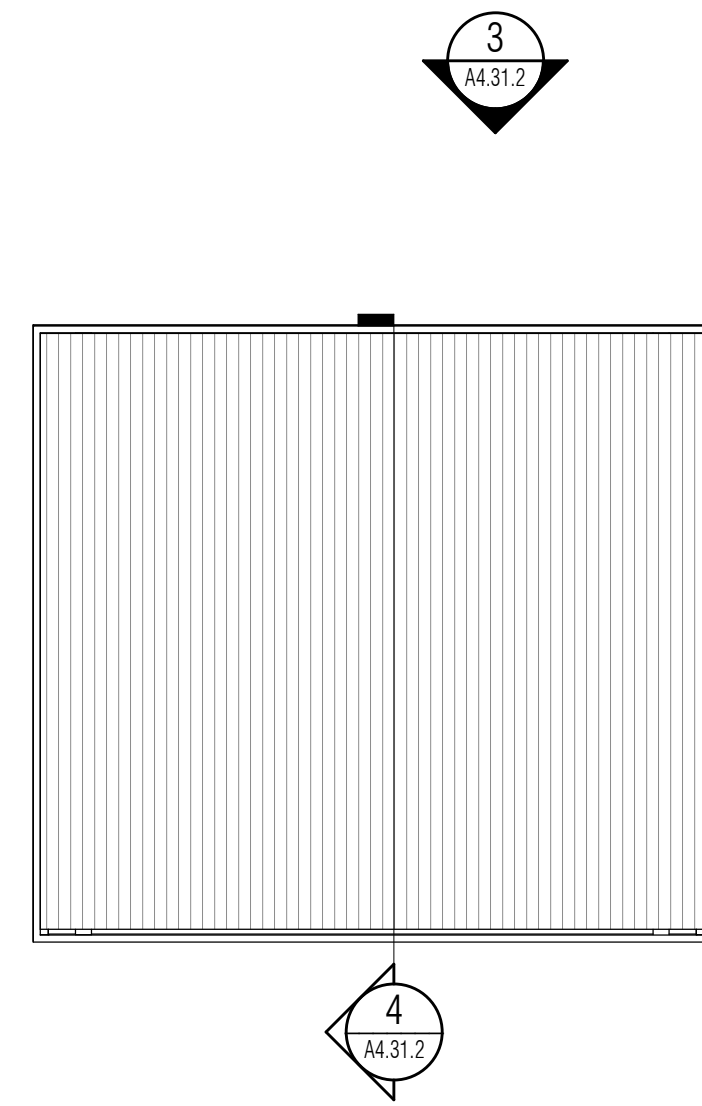
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fax 510.542.2201

ARCHITECTS SEAL



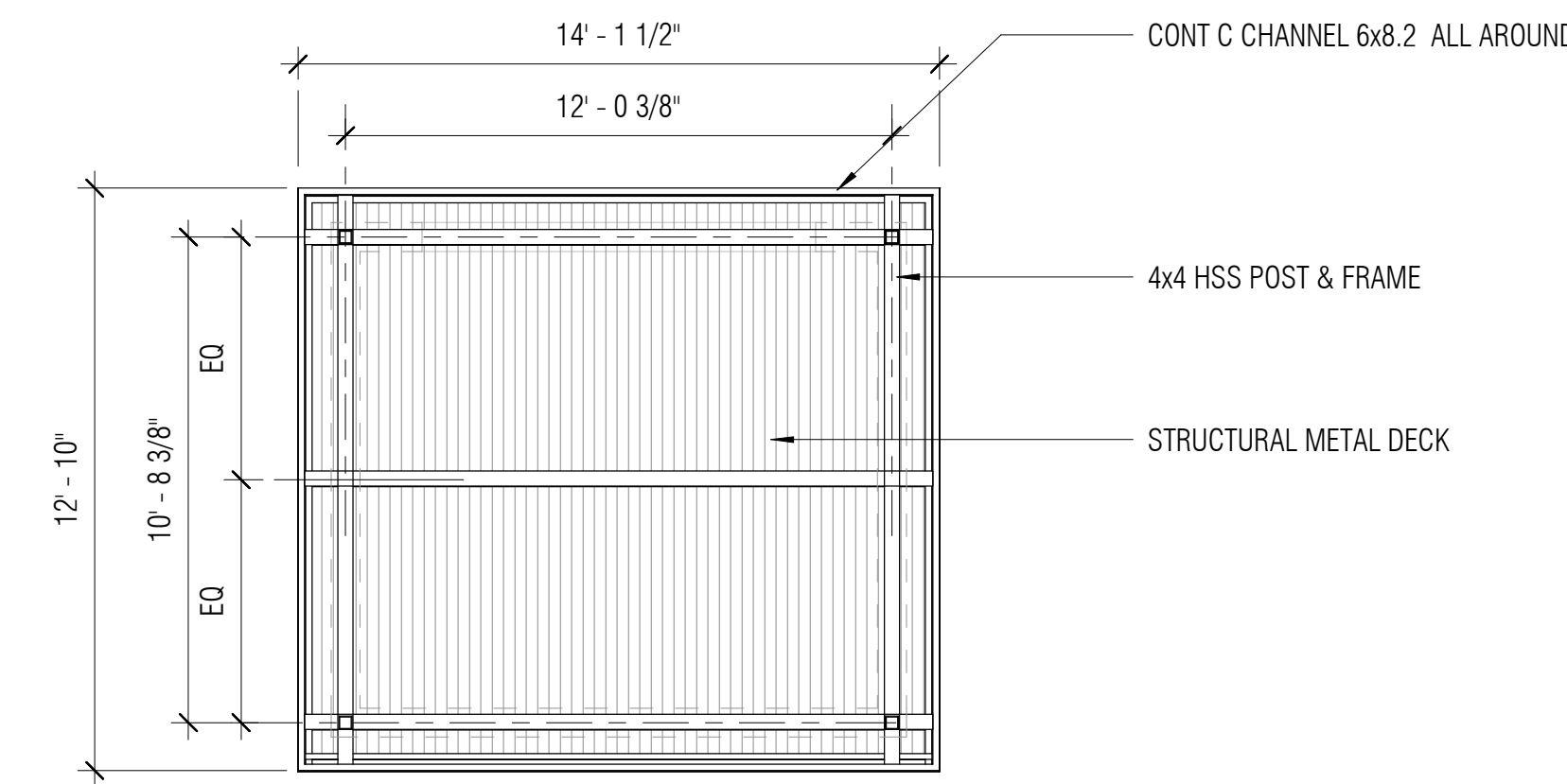
17 TRASH ENCLOSURE - ROOF PLAN

A4.31.2 1/4" = 1'-0"



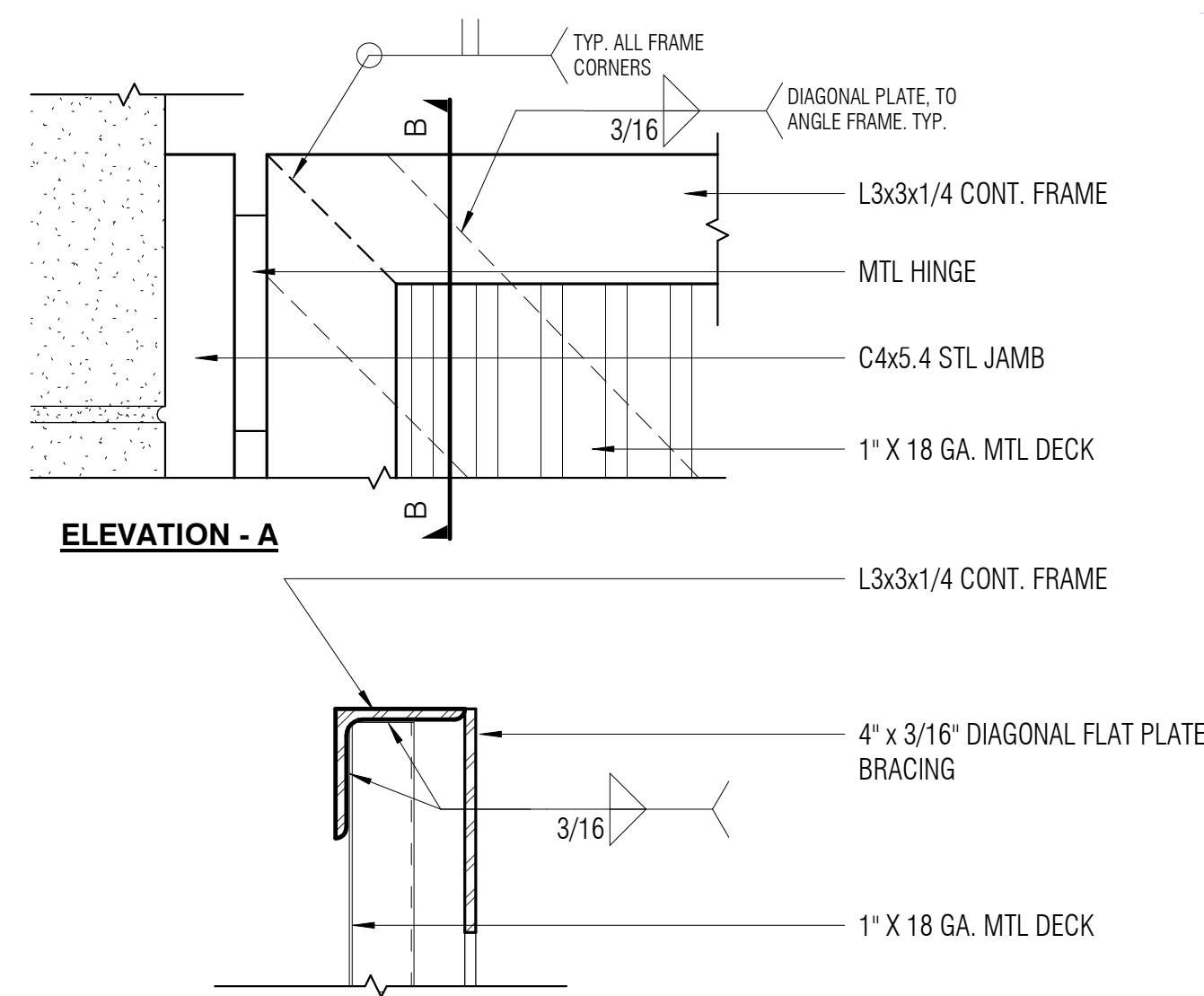
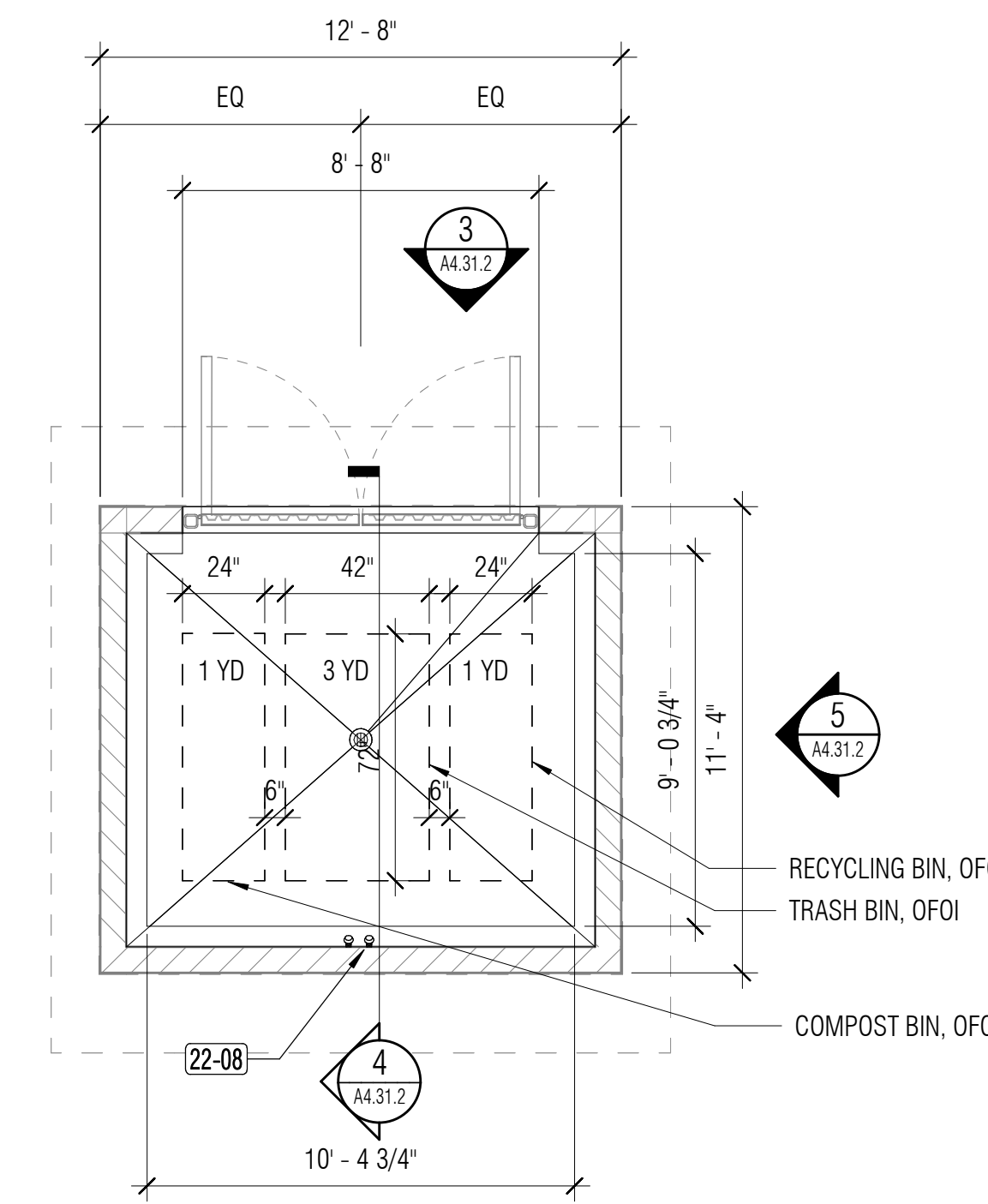
9 TRASH ENCLOSURE RCP

A4.31.2 1/4" = 1'-0"



1 TRASH ENCLOSURE PLAN

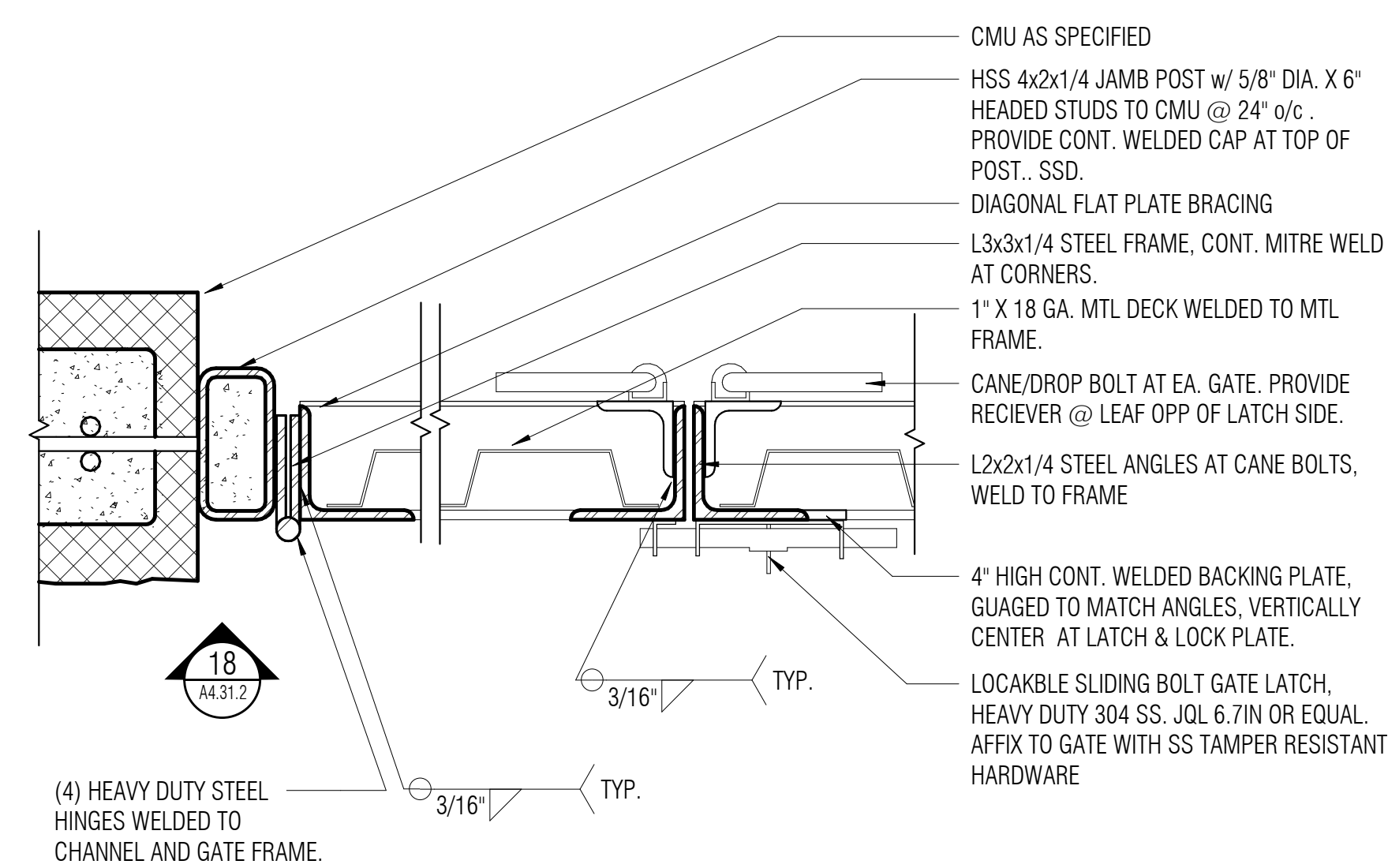
A4.31.2 1/4" = 1'-0"



ELEVATION - A

18 TRASH ENCL GATE - SECTION-ELEVATION DETAIL

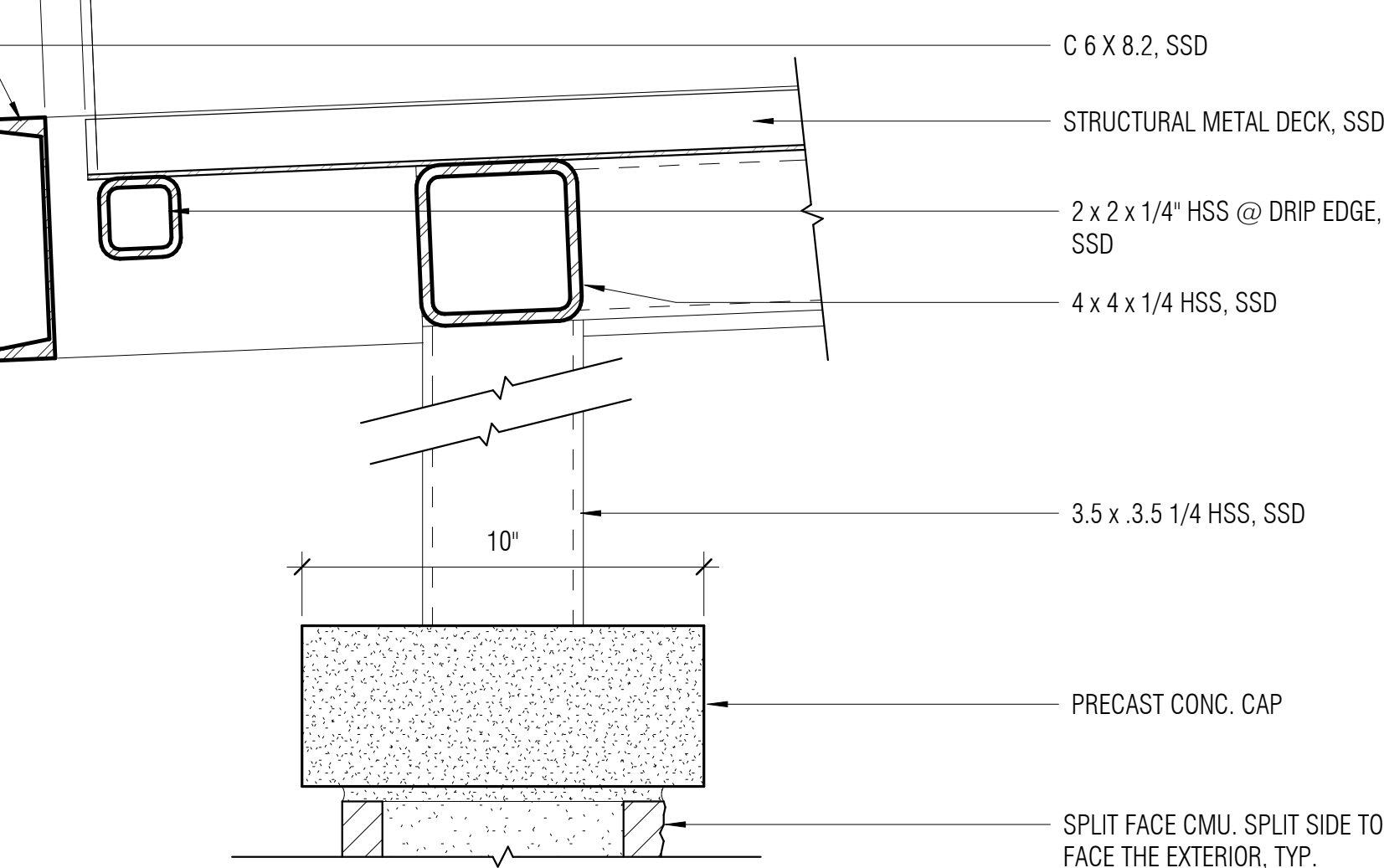
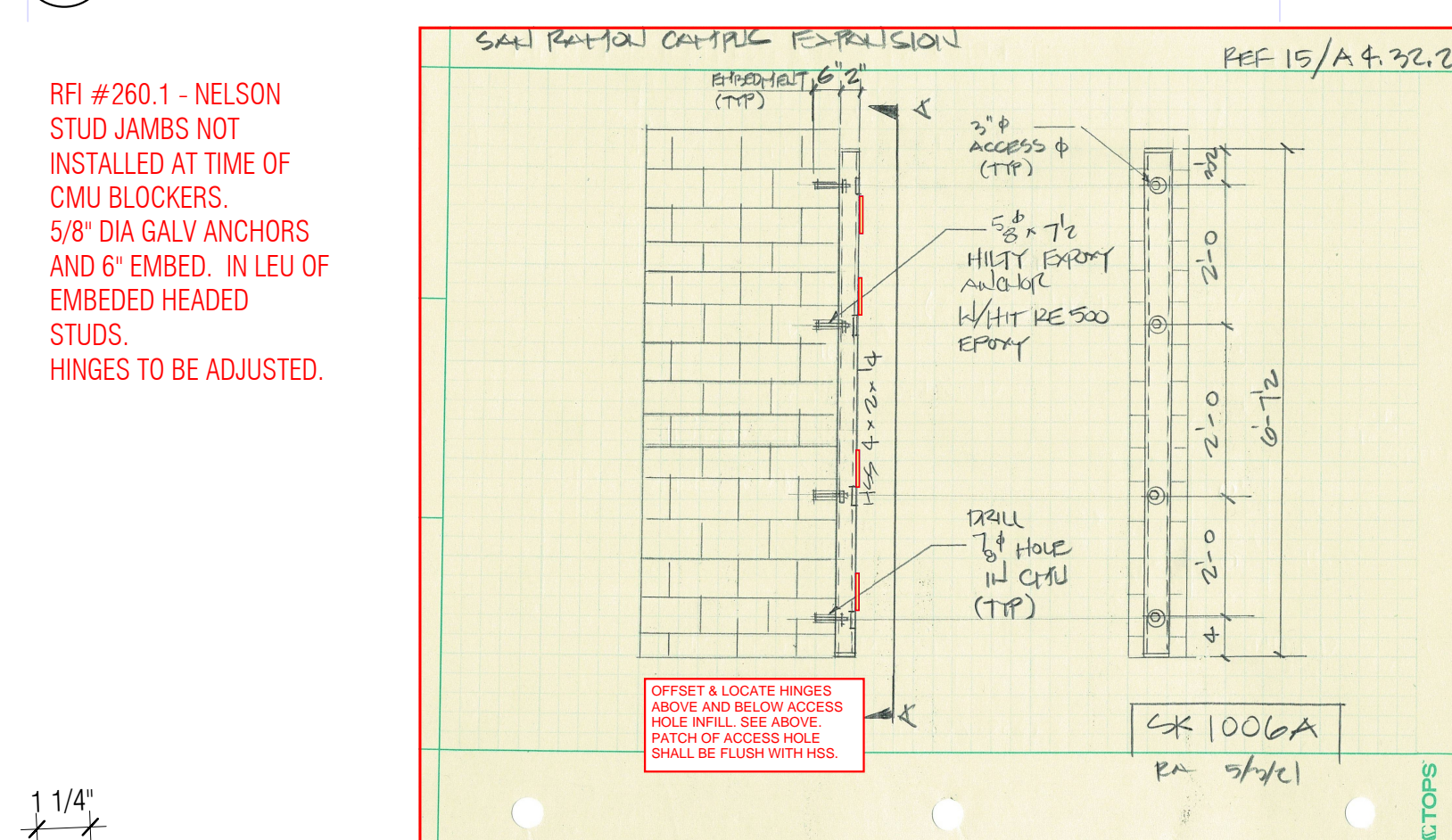
A4.31.2 3" = 1'-0"



SECTION - B

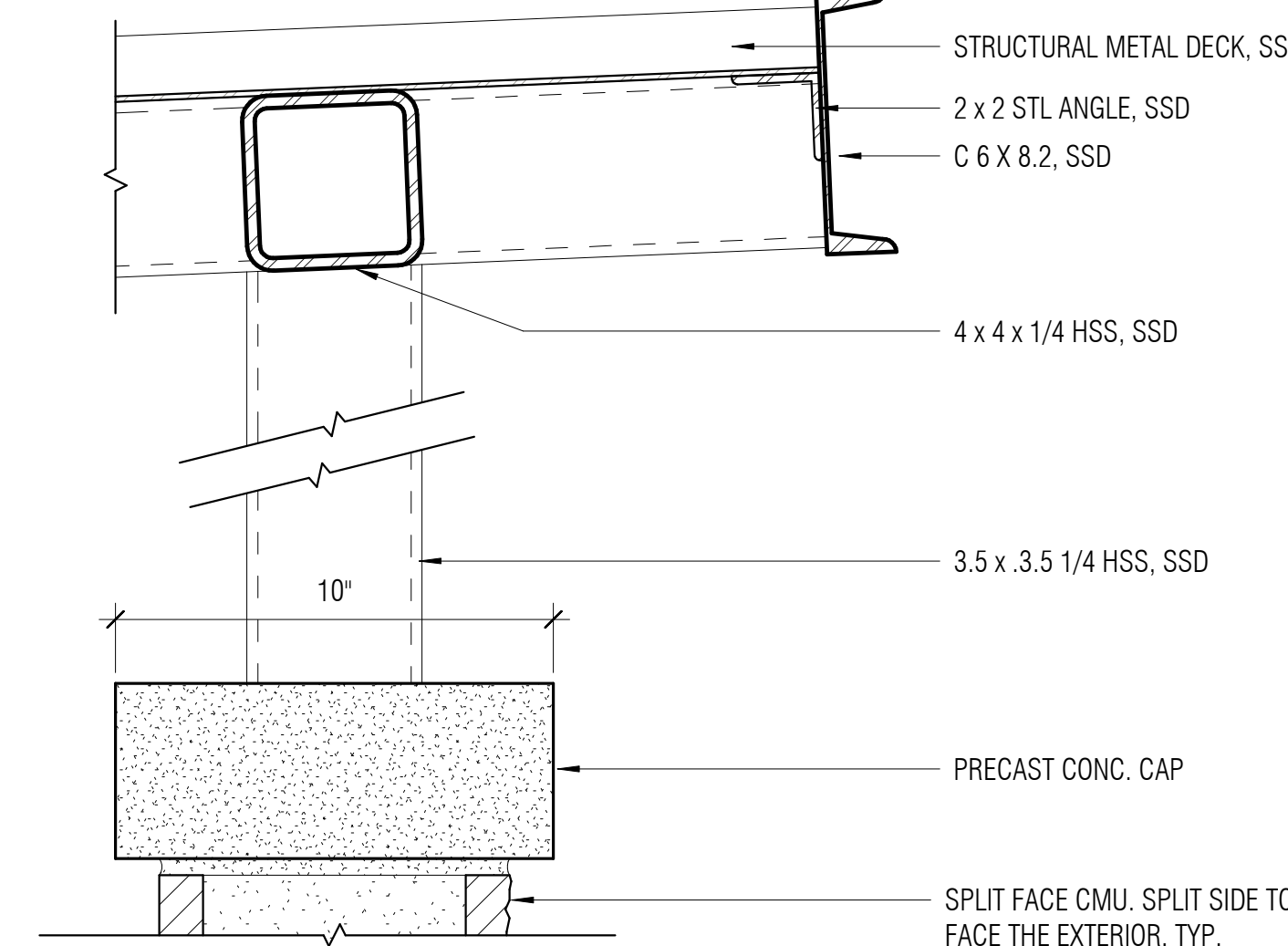
18 TRASH ENCL GATE - PLAN DETAIL

A4.31.2 3" = 1'-0"



16 TRASH ENCLOSURE CANOPY SECTION DETAIL END

A4.31.2 3" = 1'-0"

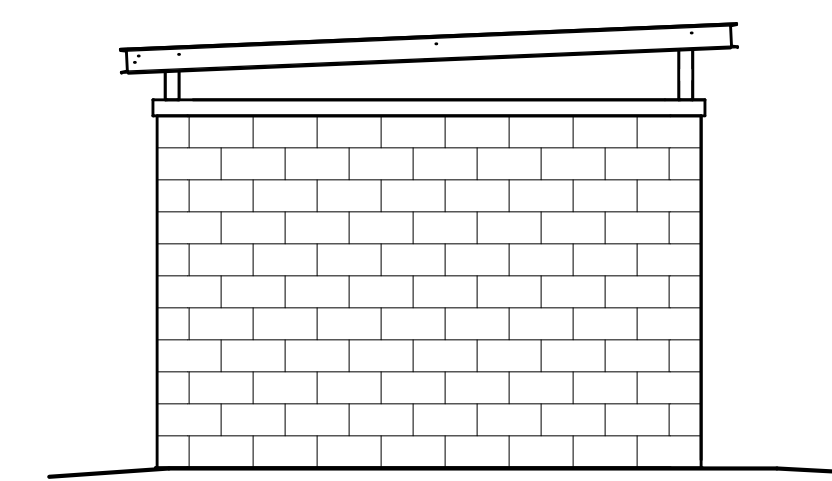


8 TRASH ENCLOSURE CANOPY SECTION DETAIL

A4.31.2 3" = 1'-0"

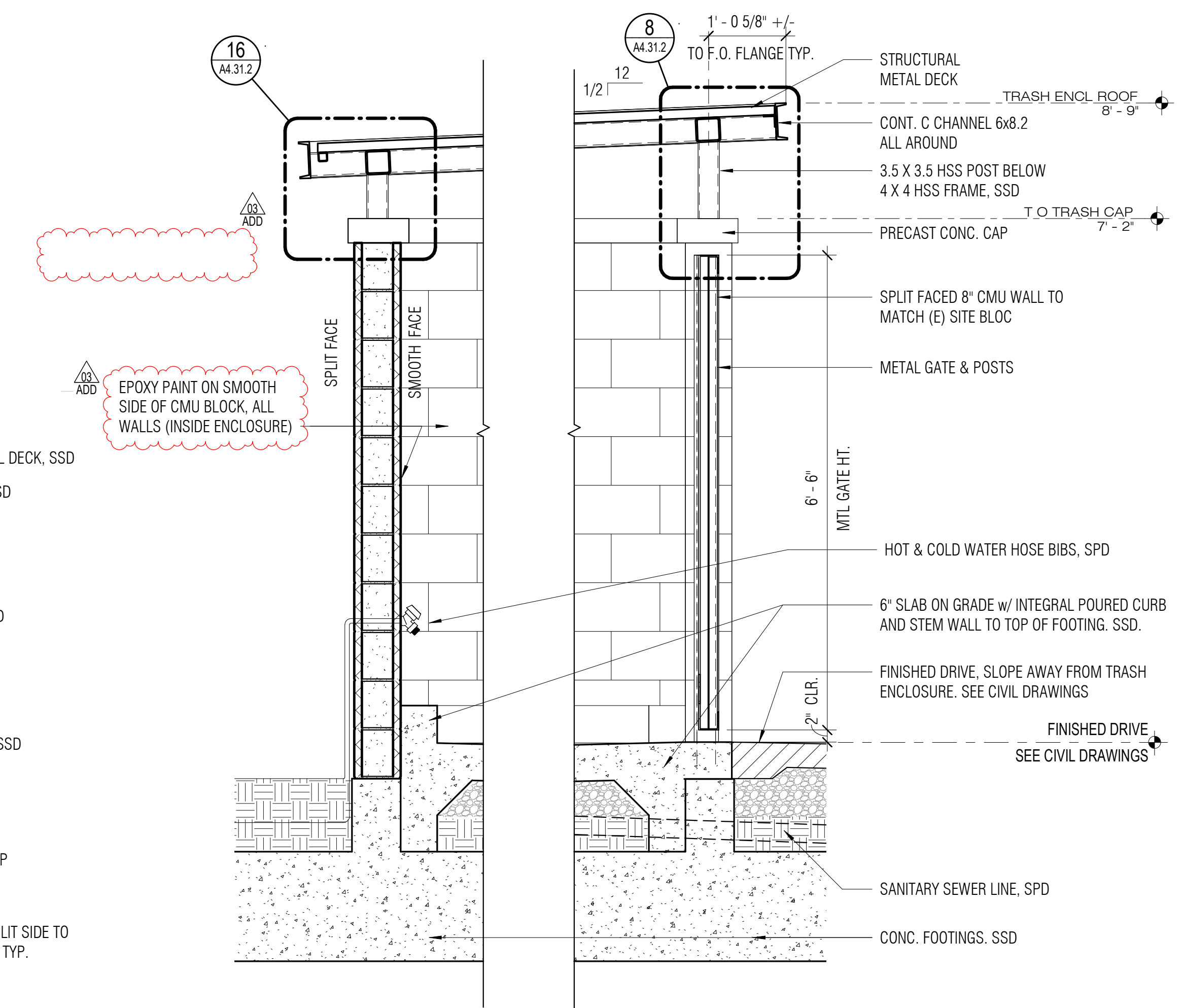
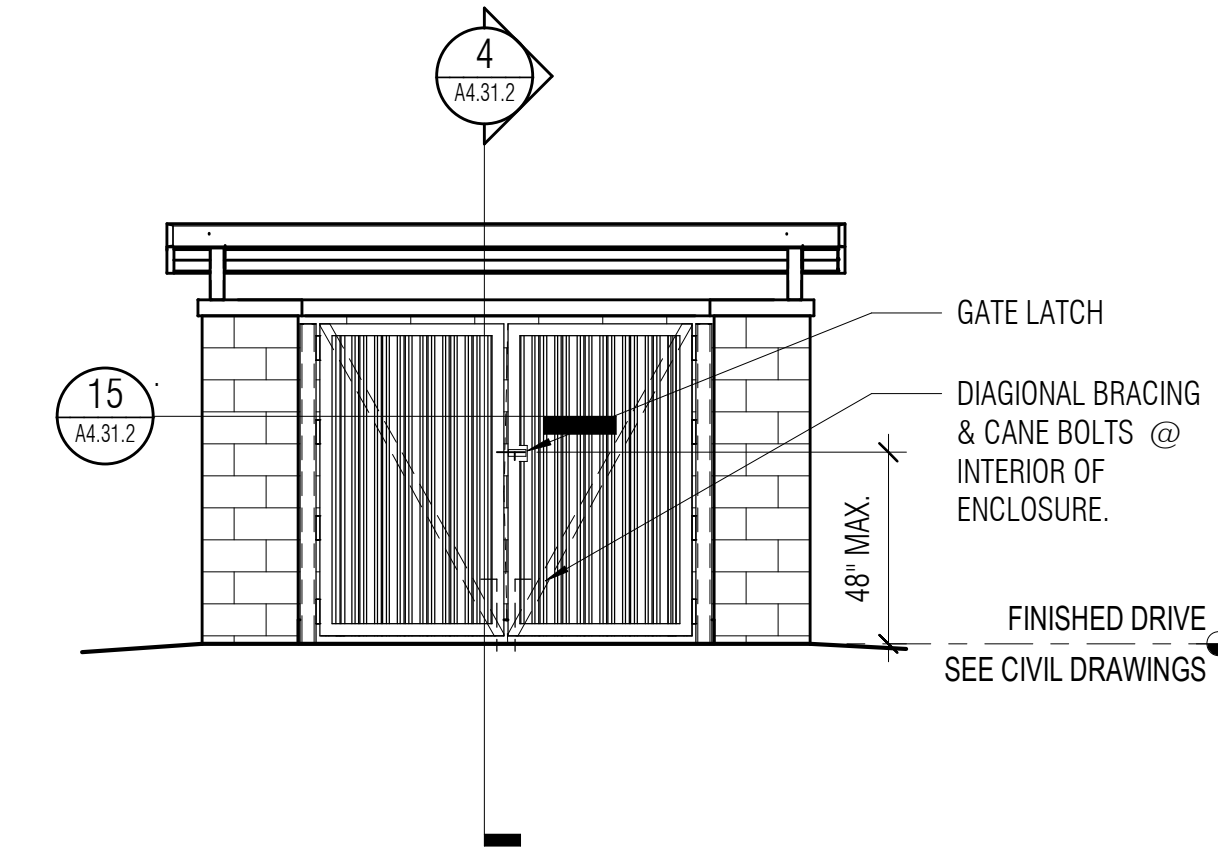
5 TRASH ENCLOSURE - SIDE ELEVATION

A4.31.2 1/4" = 1'-0"



3 TRASH ENCLOSURE - FRONT ELEVATION

A4.31.2 1/4" = 1'-0"



4 TRASH ENCLOSURE - SECTION

A4.31.2 3/4" = 1'-0"

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INCREMENT 2

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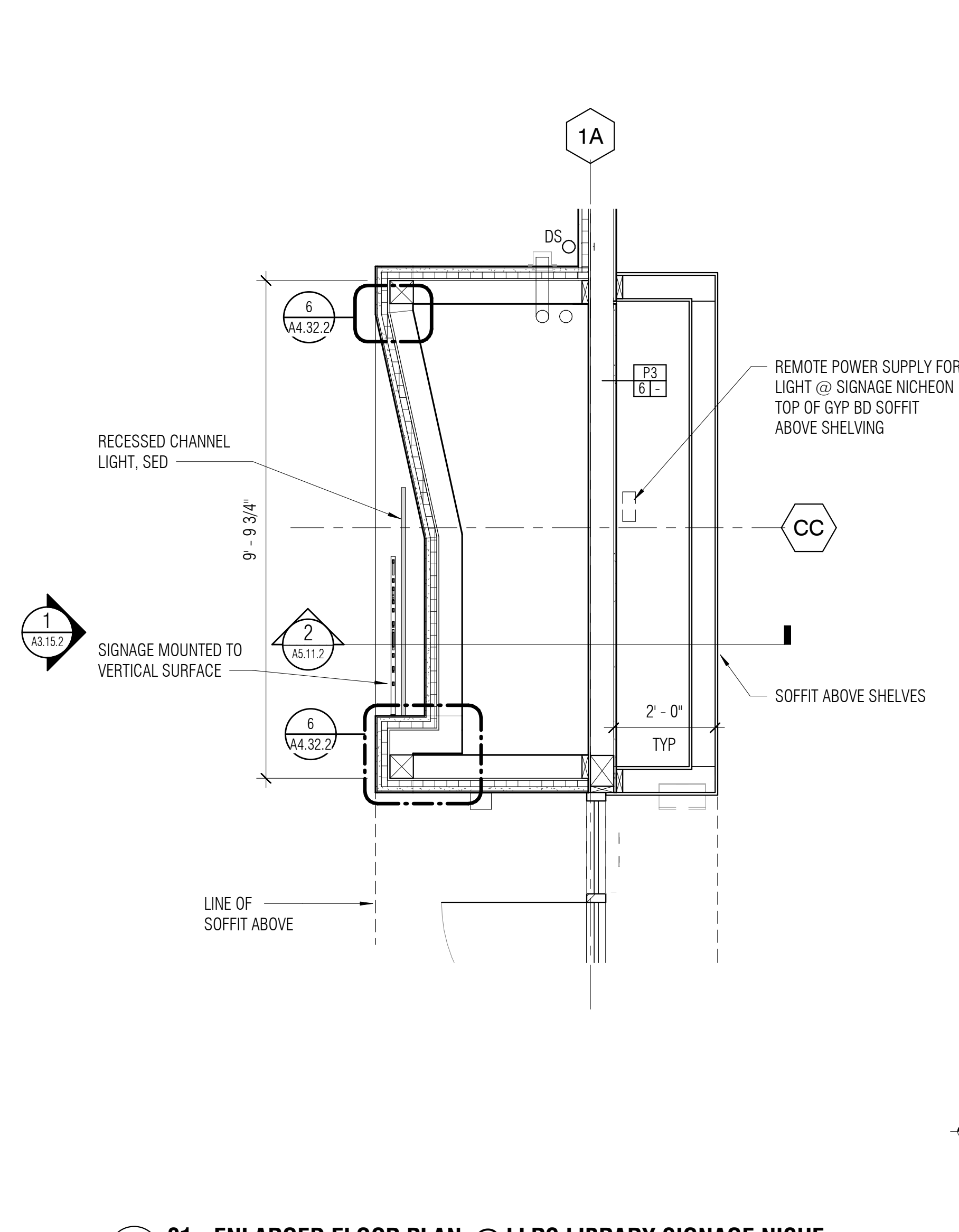
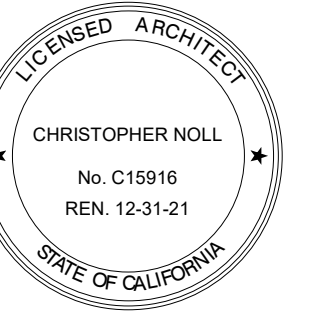
NOLL & TAM JOB NUMBER 21630

| REVISIONS | DATE | DESCRIPTION |
|-----------|---------------------|-------------|
| 8/27/19 | INC 2 - ADDENDUM 03 | |
| 3/10/2020 | TRASH ENCLOSURE | |

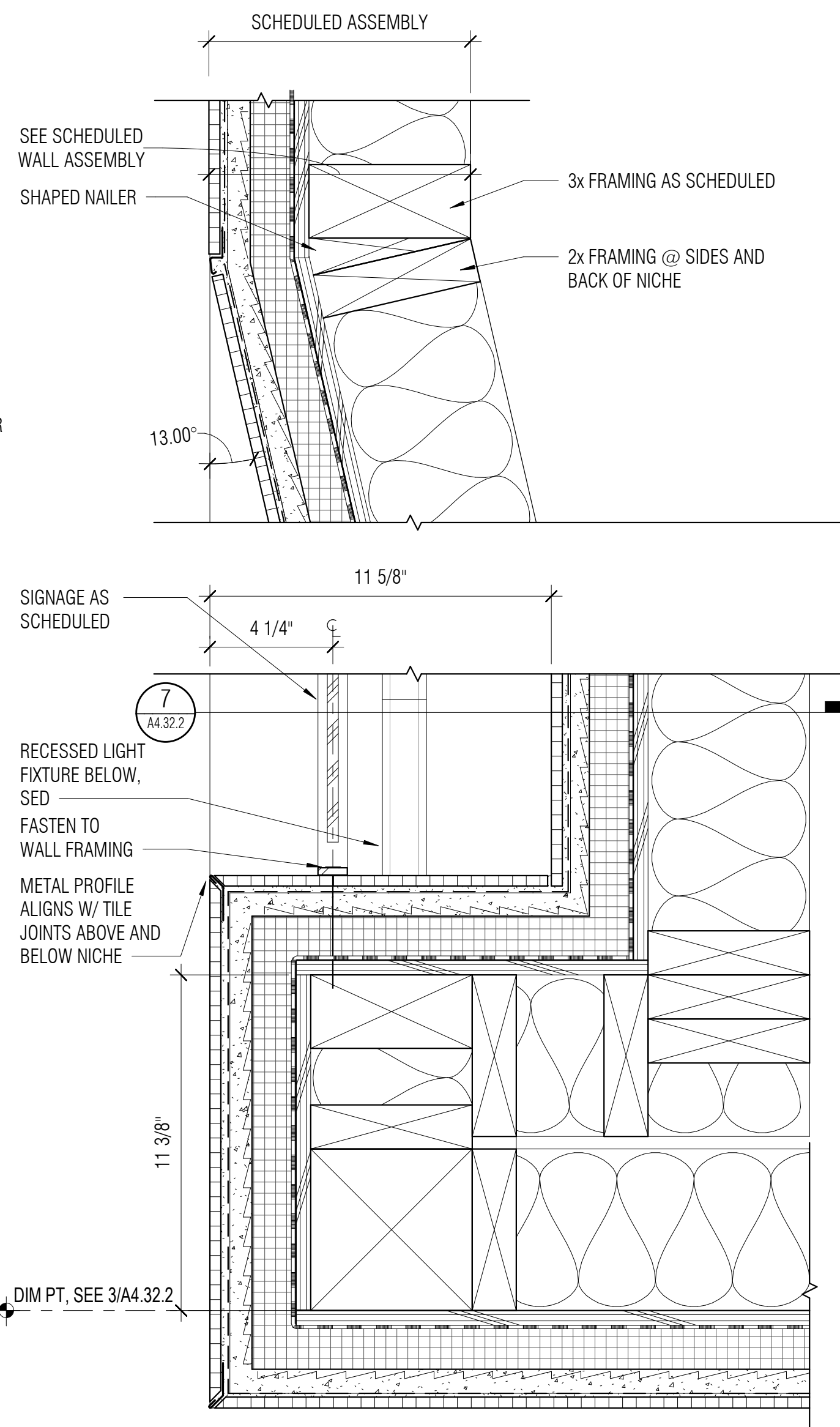
**TRASH ENCLOSURE
PLANS & ELEVATIONS**

SHEET NUMBER

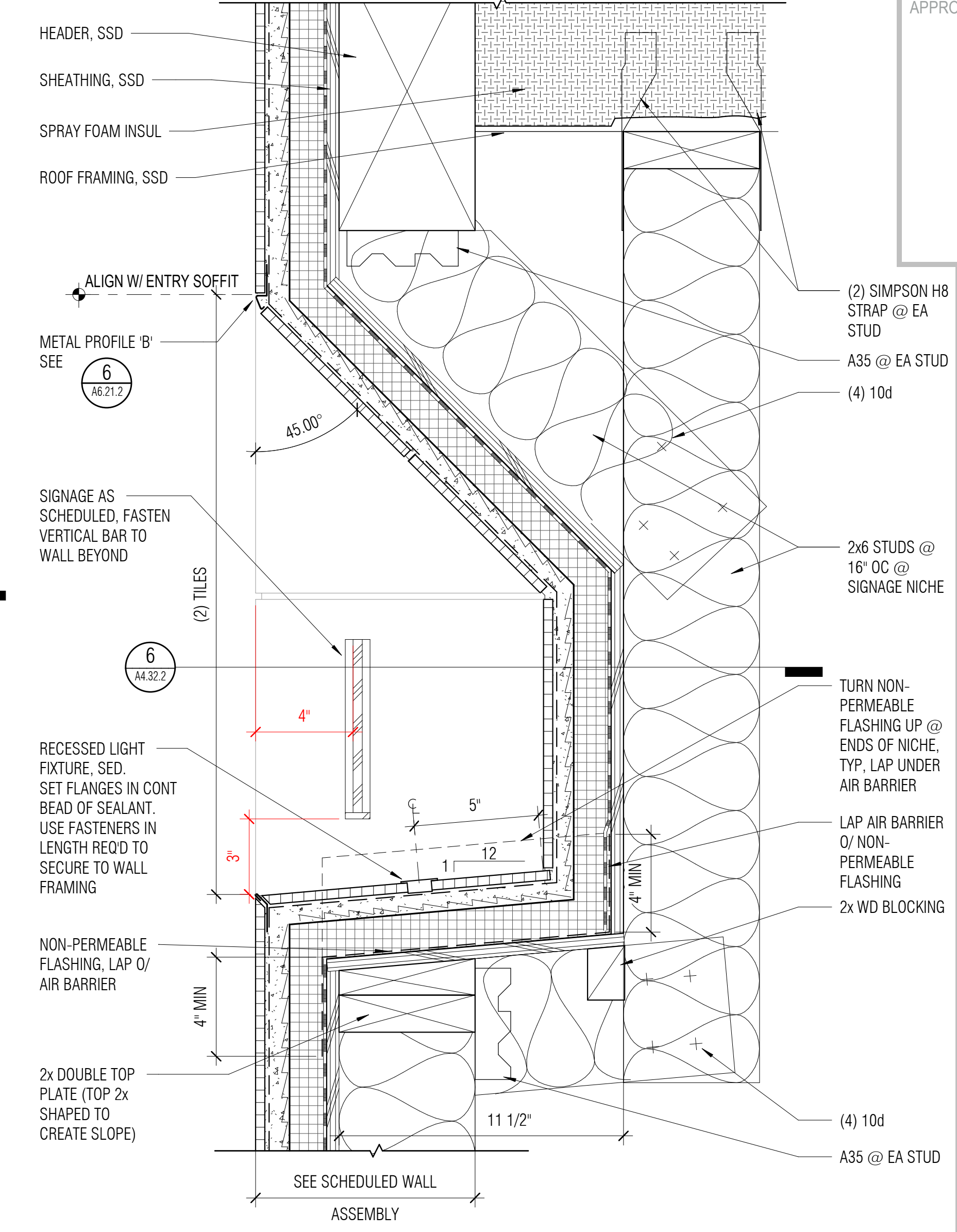
A4.31.2



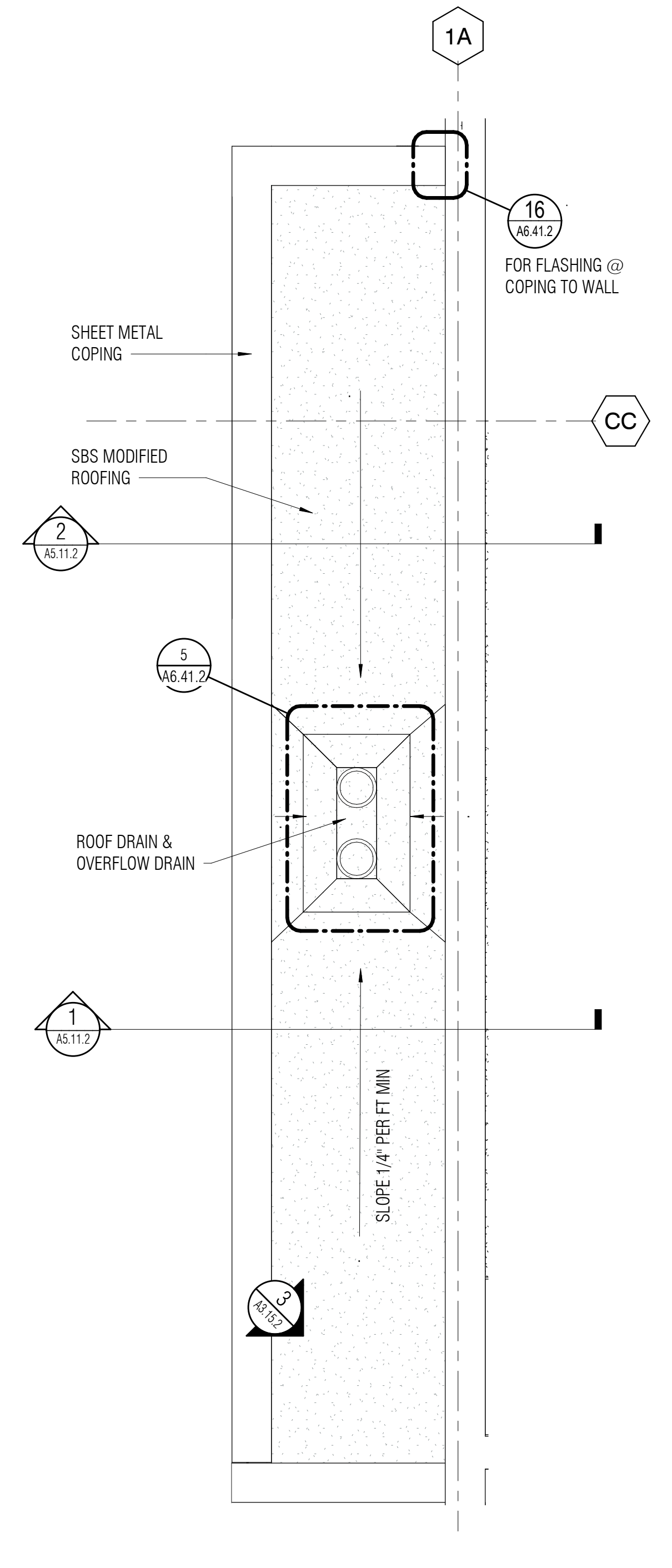
5 01 - ENLARGED FLOOR PLAN @ LLRC LIBRARY SIGNAGE NICHE
1/2" = 1'-0"



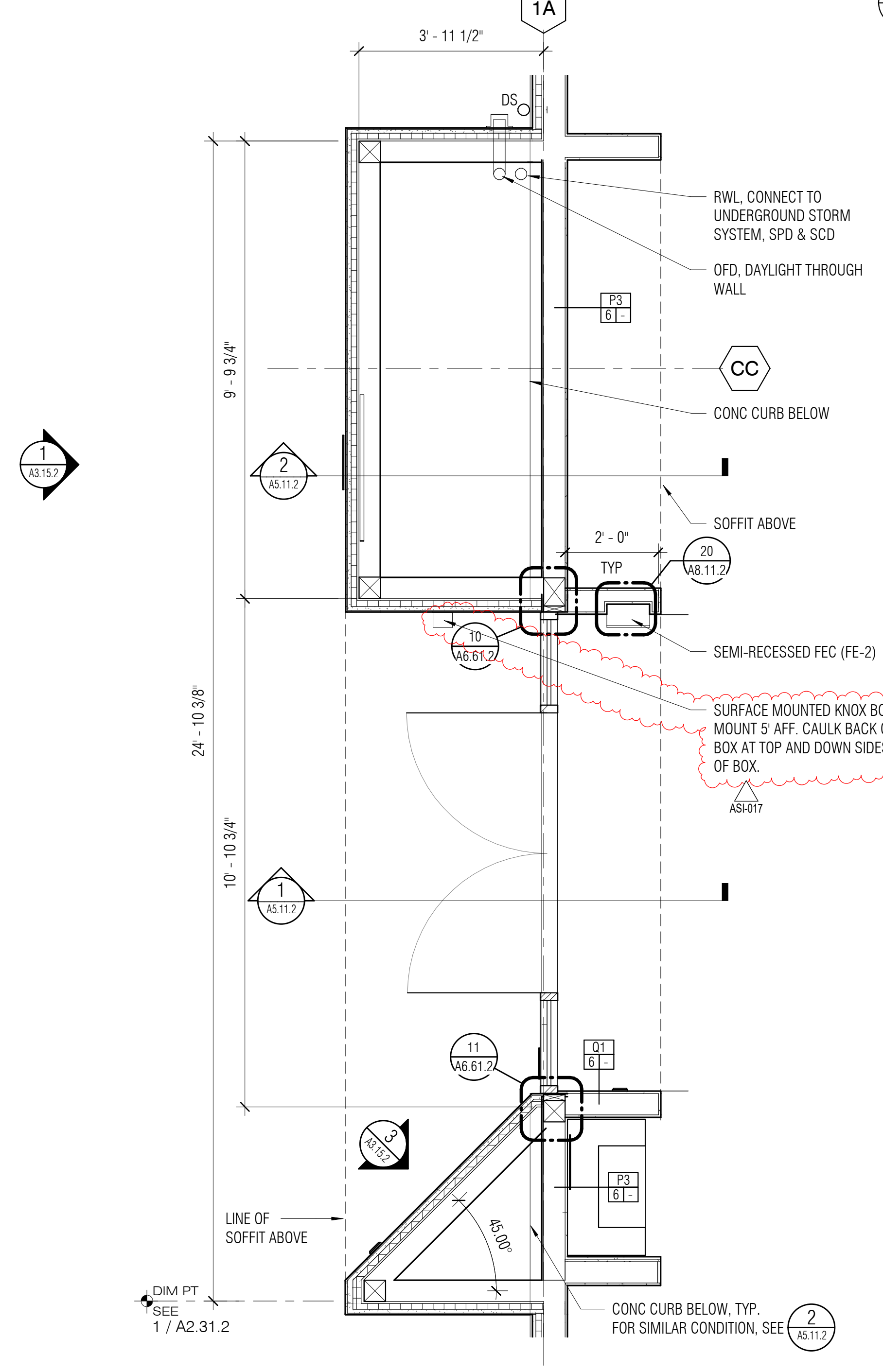
6 ENTRANCE SIGNAGE NICHE - PLAN
3" = 1'-0"



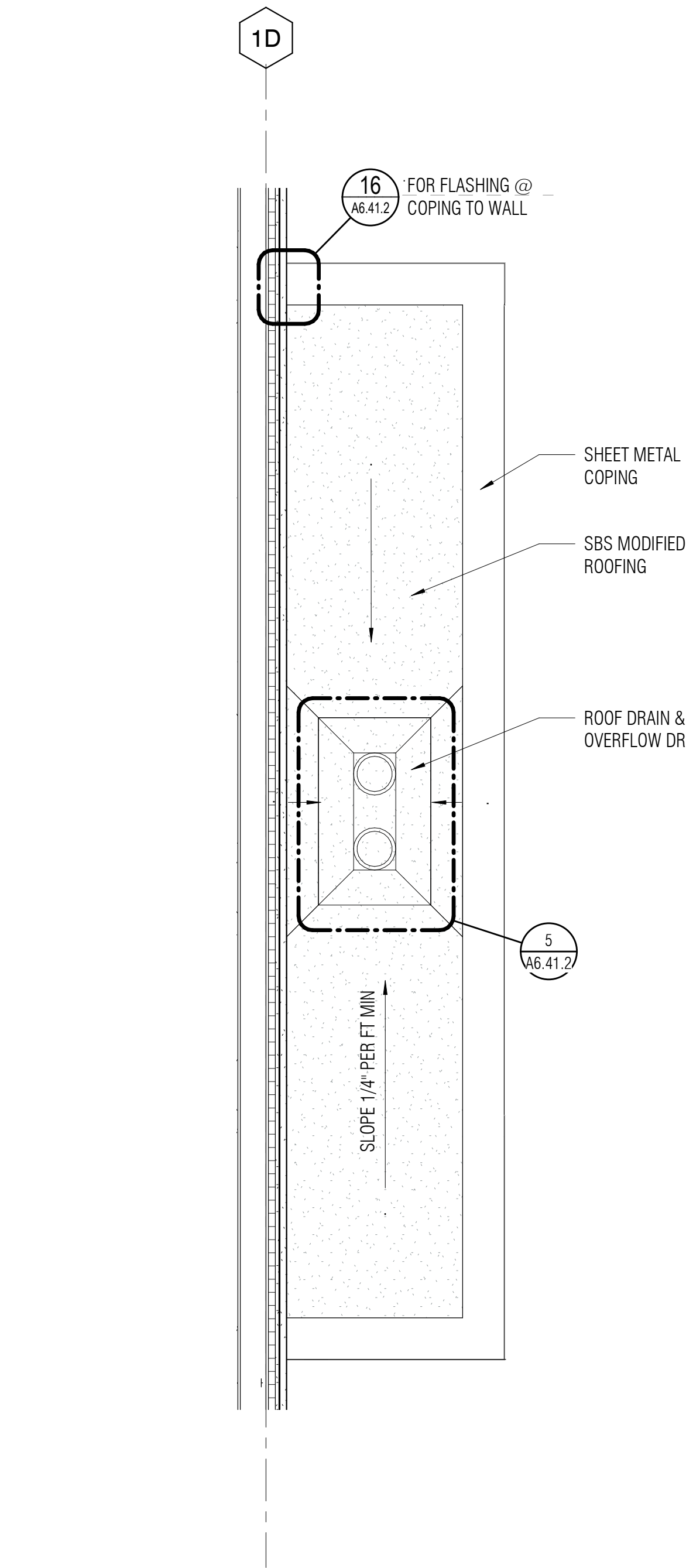
7 ENTRANCE SIGNAGE NICHE - SECTION
3" = 1'-0"



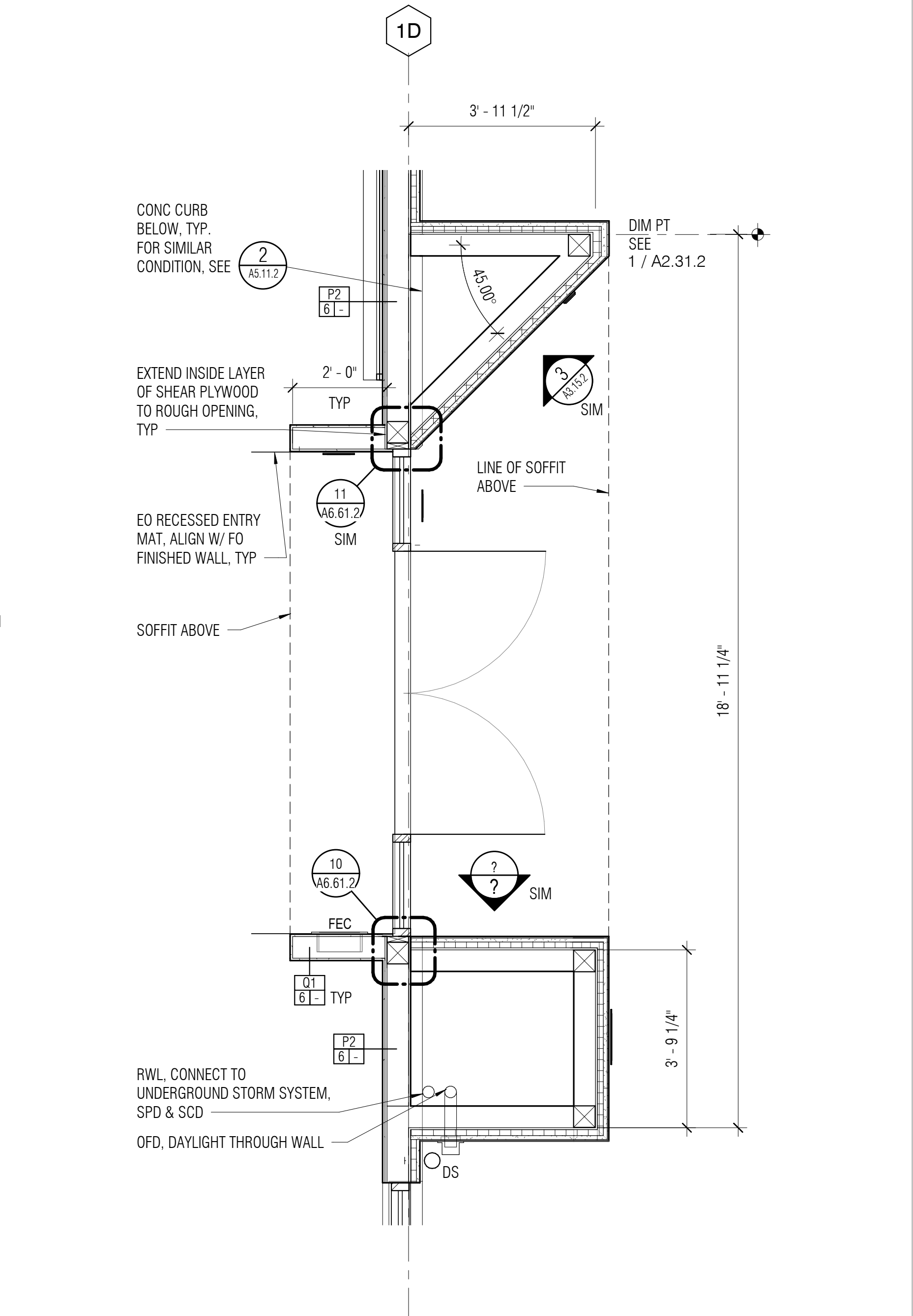
4 ROOF PLAN - LIBRARY ENTRY
1/2" = 1'-0"



3 01 - ENLARGED FLOOR PLAN @ LLRC LIBRARY ENTRY
1/2" = 1'-0"



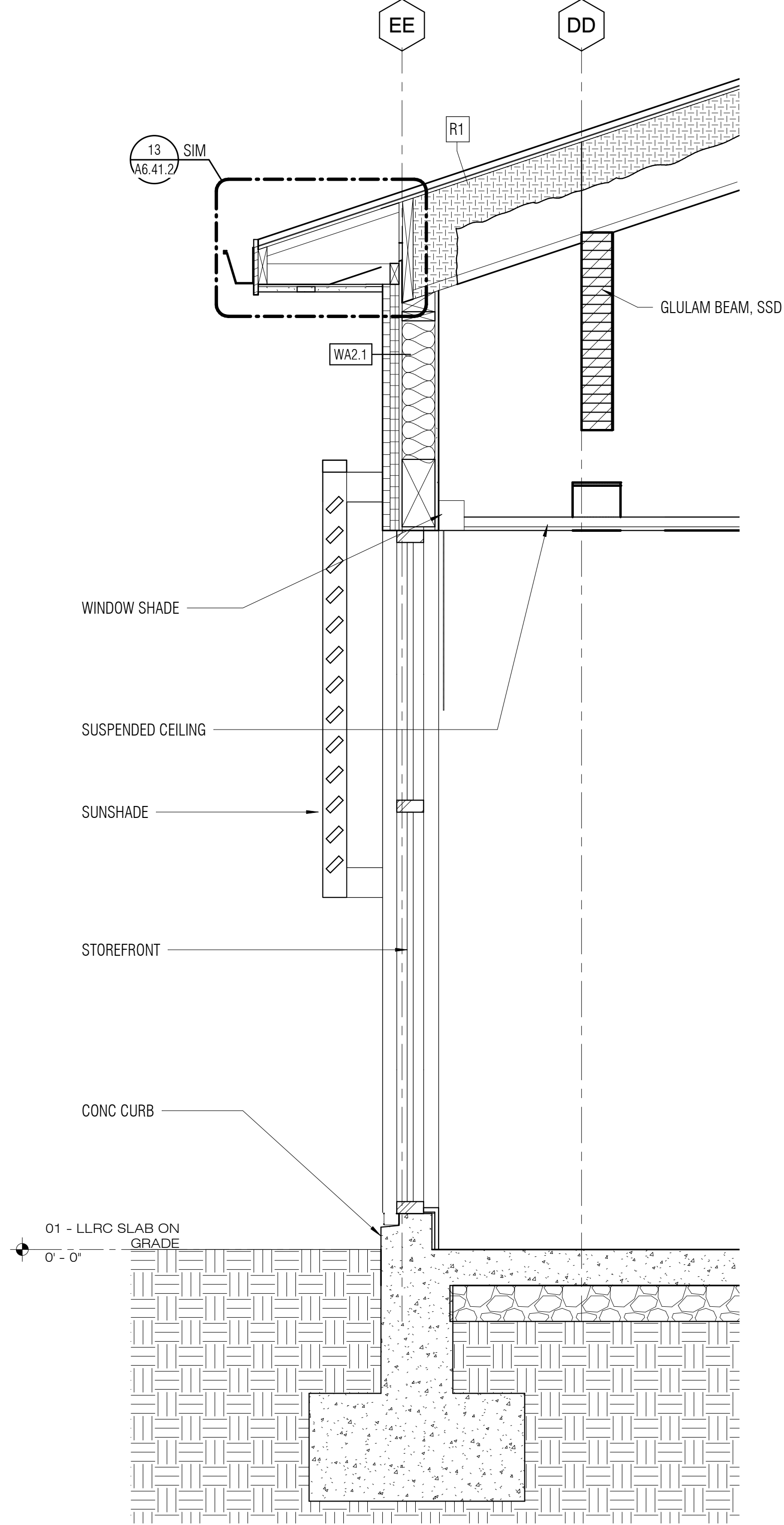
2 ROOF PLAN - LEARNING SUPPORT ENTRY
1/2" = 1'-0"



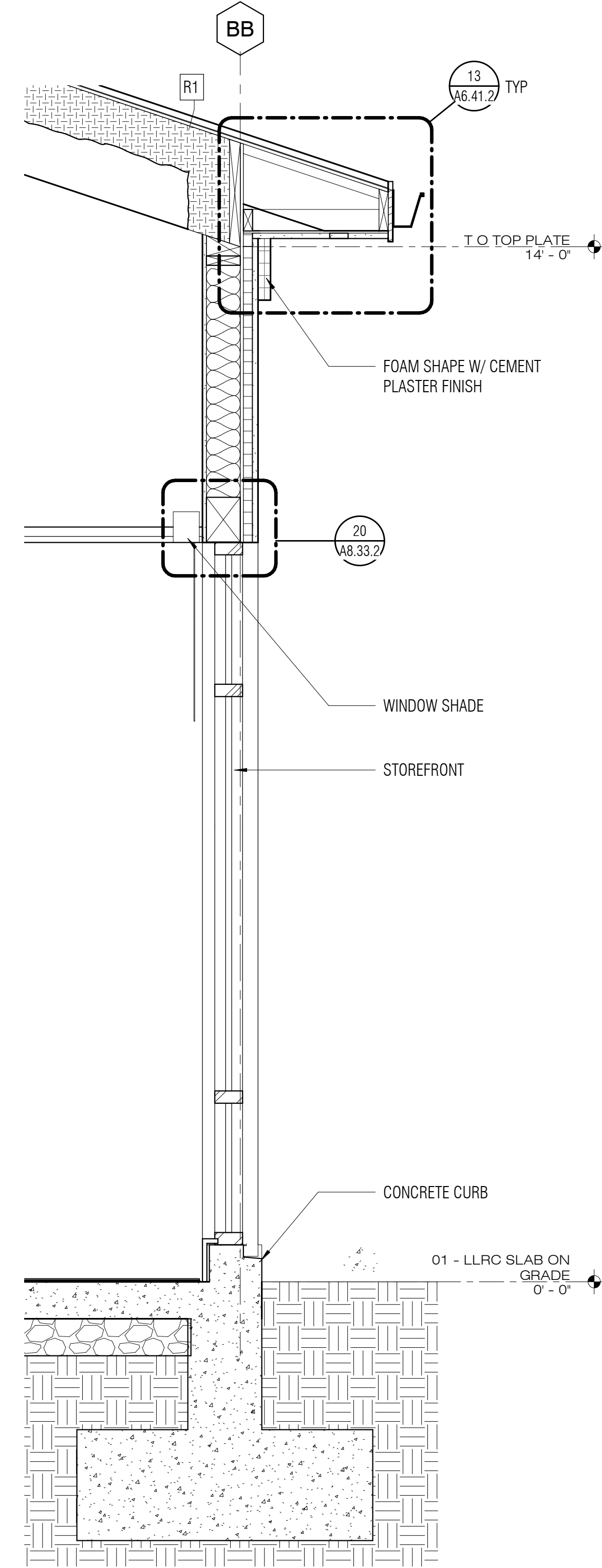
1 01 - ENLARGED FLOOR PLAN @ TUTORIAL ENTRY
1/2" = 1'-0"

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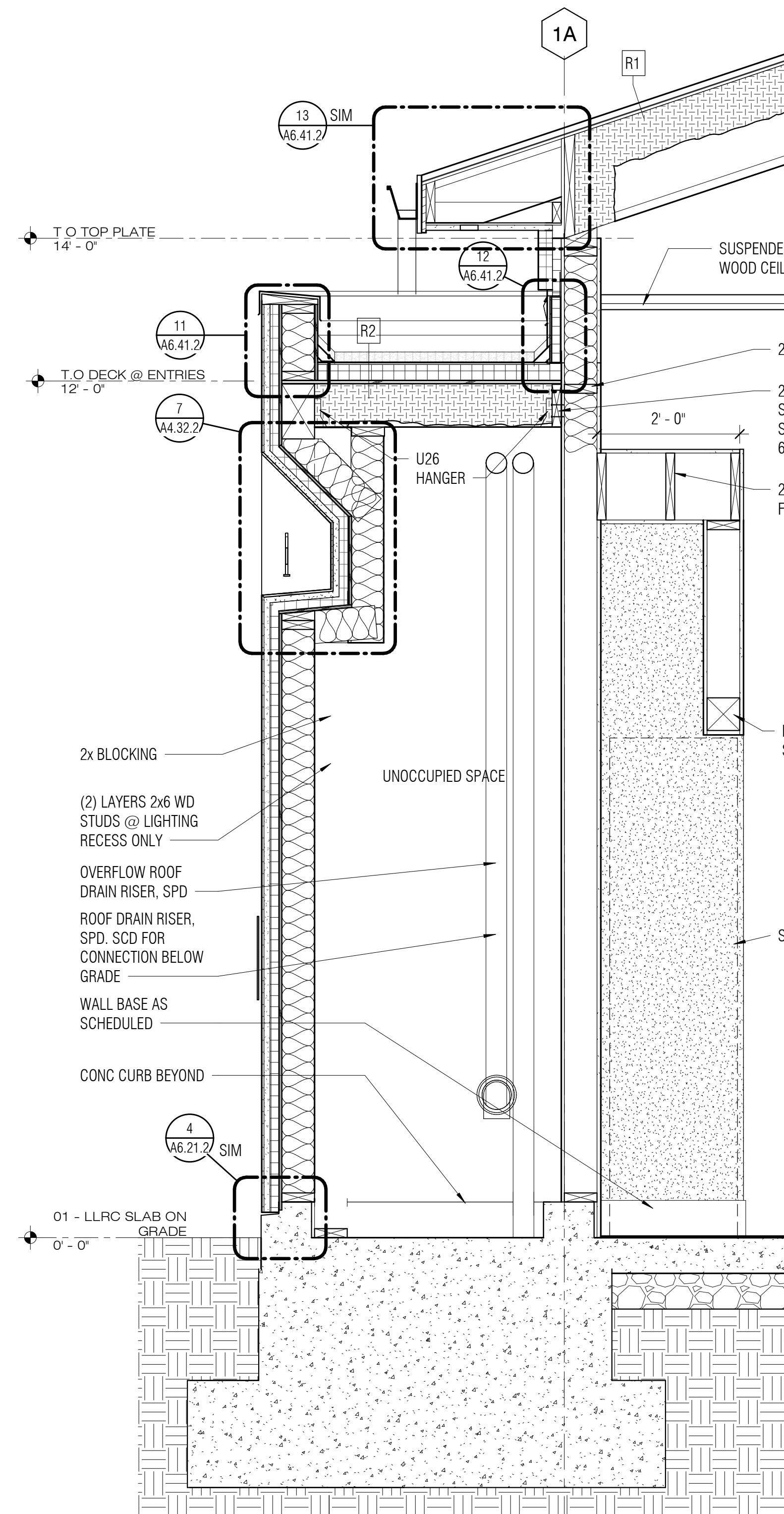
| REVISIONS | DATE | DESCRIPTION |
|-----------|---------------|-------------|
| 7/19/20 | INC 2 ASI 017 | |



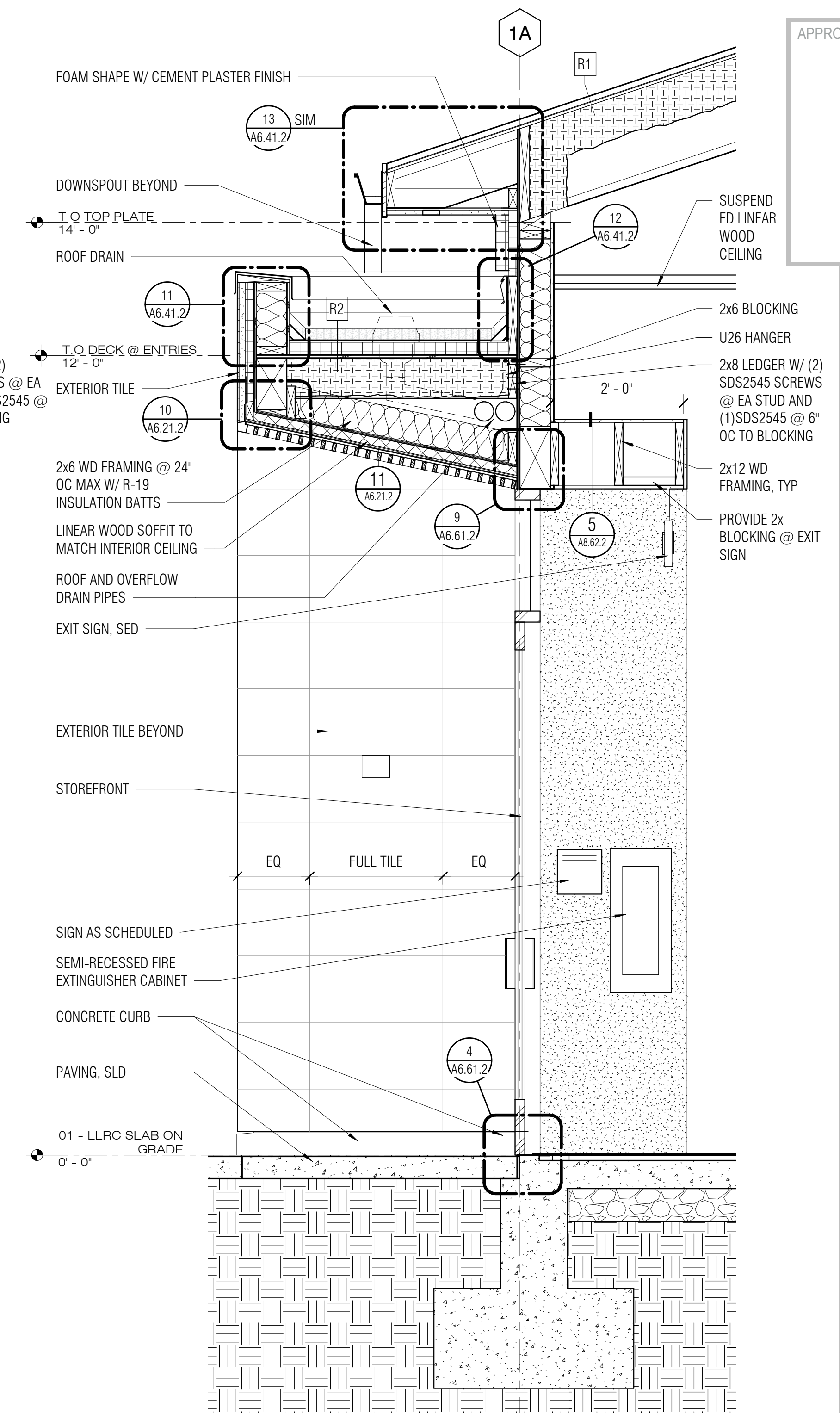
4 WALL SECTION @ ROOF EXTENSION & SUN SHADE
A5.11.2 3/4" = 1'-0"



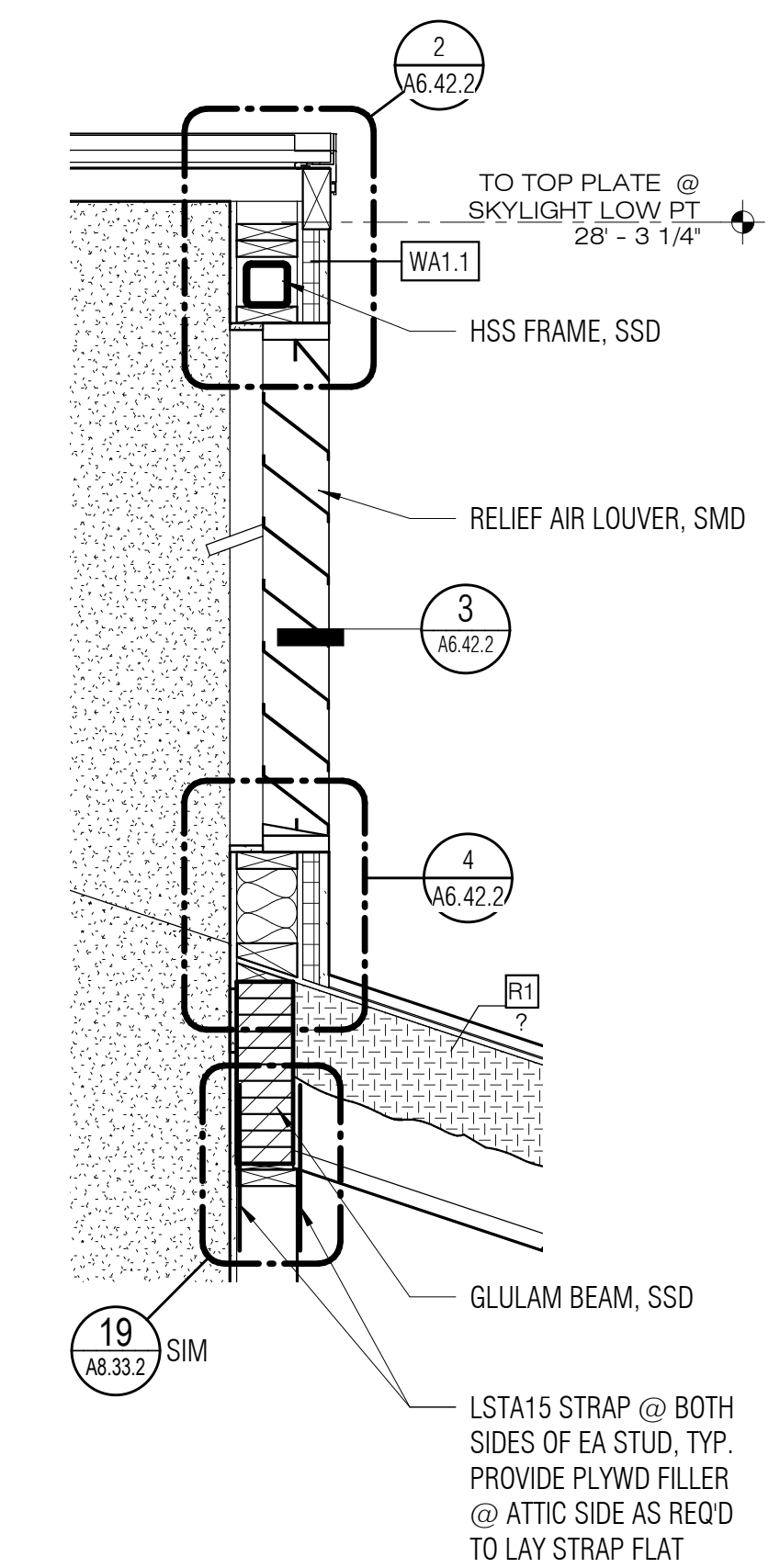
3 WALL SECTION @ TYPICAL LLRC STOREFRONT
A5.11.2 3/4" = 1'-0"



2 WALL SECTION @ ENTRANCE SIGNAGE
A5.11.2 3/4" = 1'-0"



1 WALL SECTION @ LLRC ENTRANCE
A5.11.2 3/4" = 1'-0"



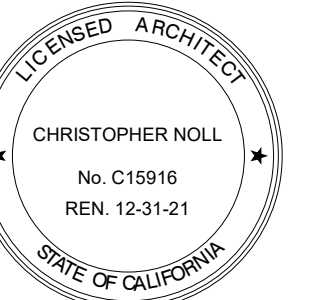
5 WALL SECTION @ LIGHTWELL LOUVER
A5.11.2 3/4" = 1'-0"

APPROVALS

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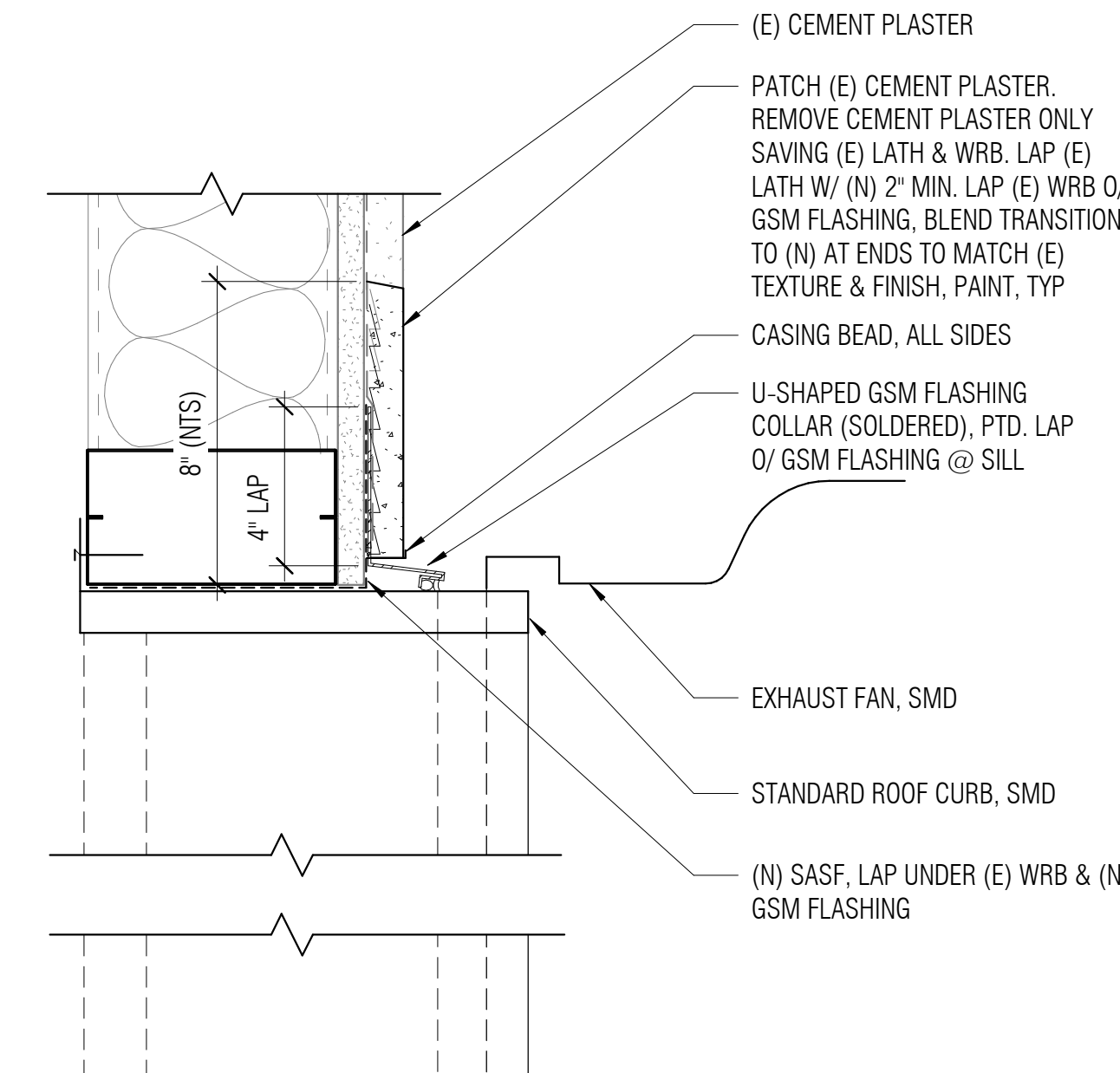
NOLL & TAM JOB NUMBER 21630

REVISIONS
DATE DESCRIPTION

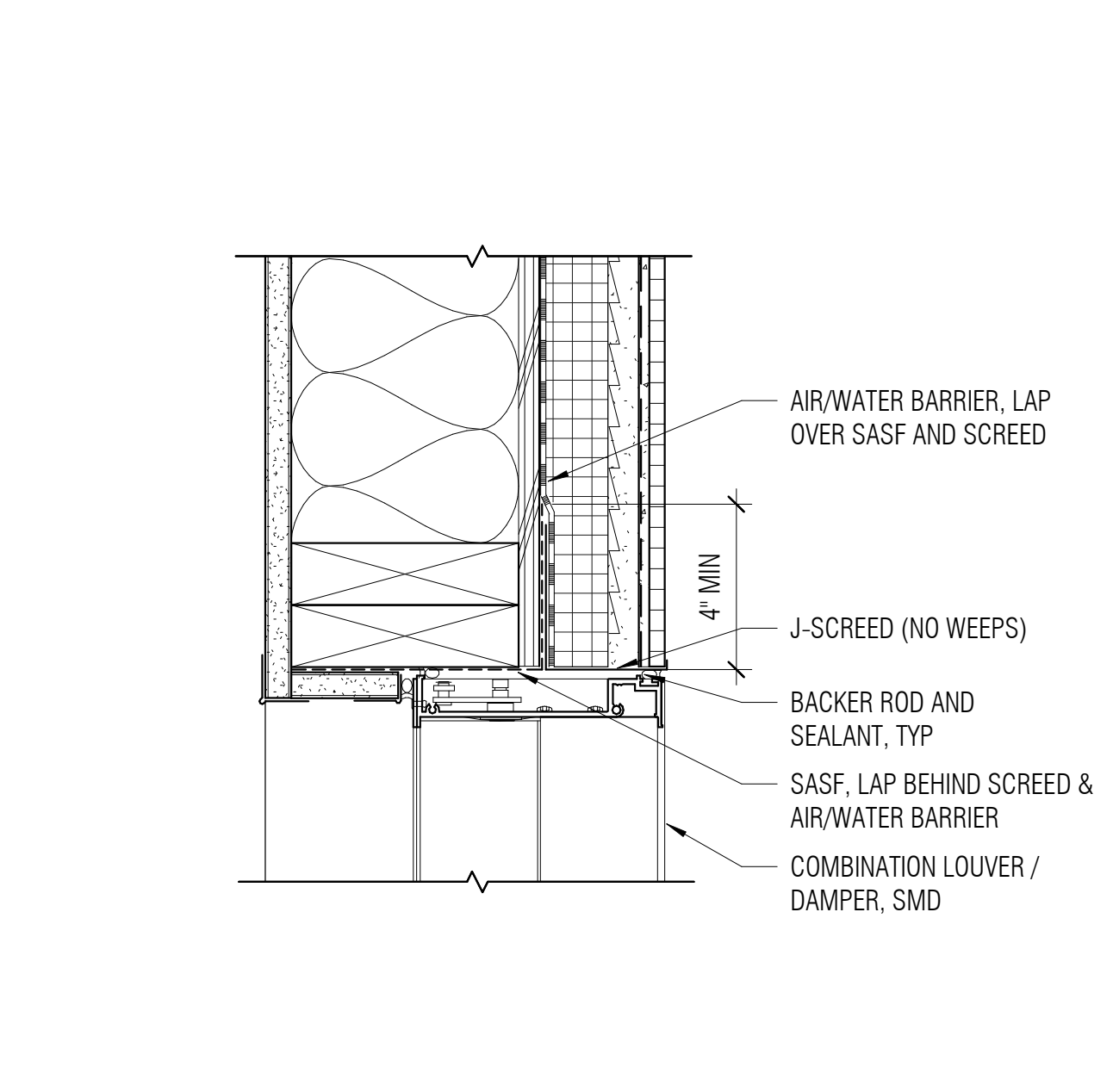
SHEET TITLE
WALL SECTIONS @ LLRC

SHEET NUMBER

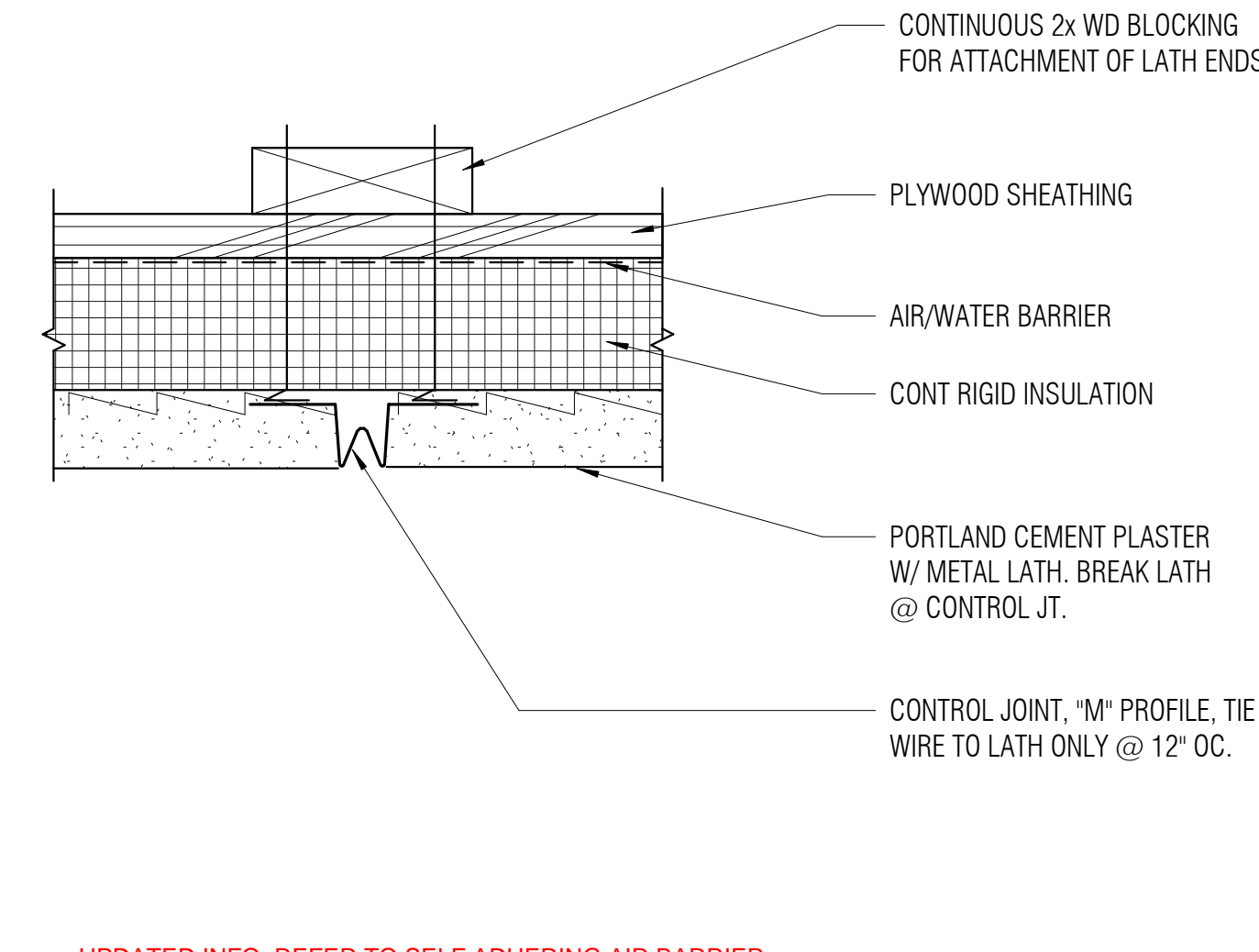
A5.11.2



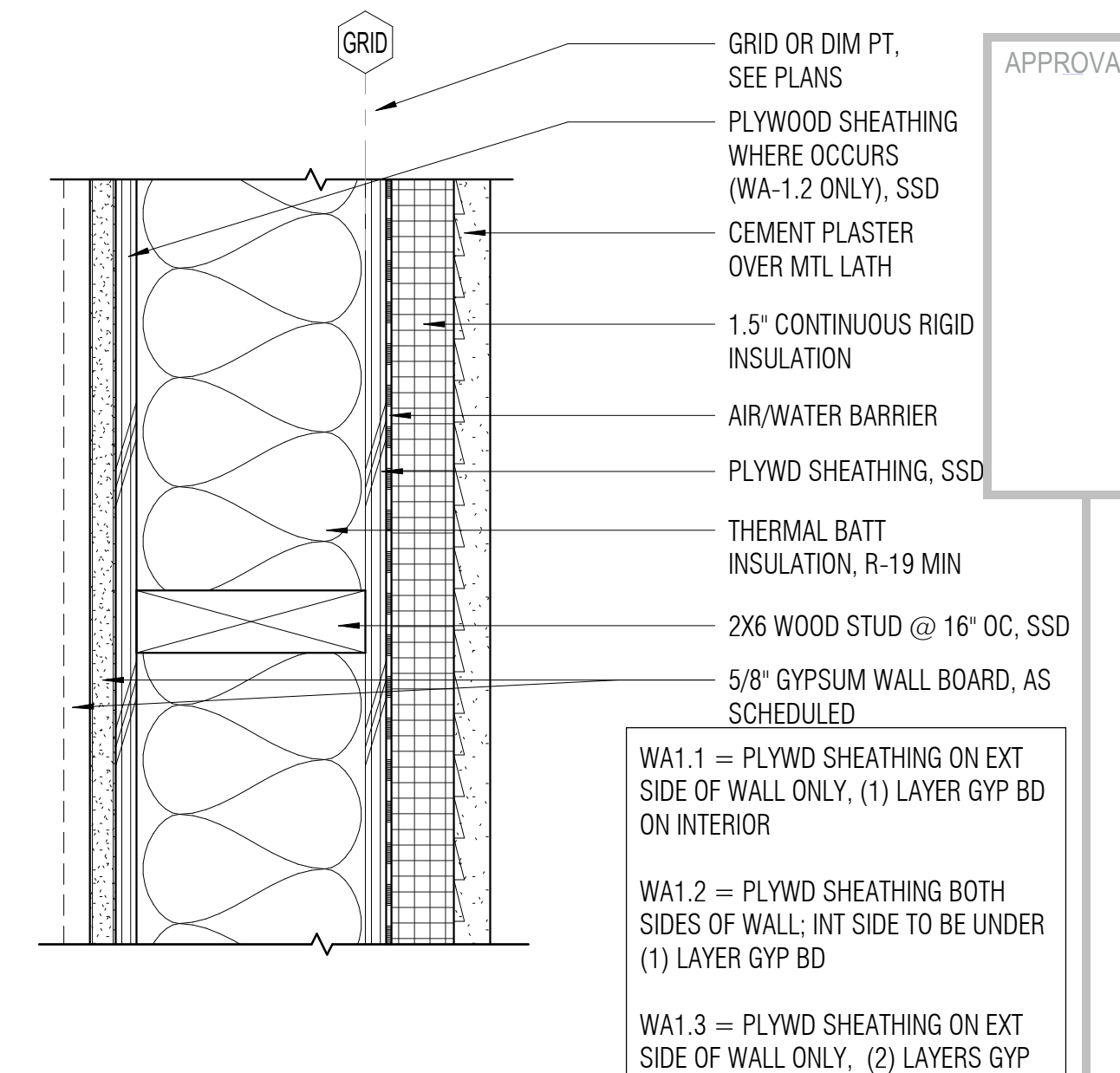
13 LOUVER HEAD @ MECH RM
A6.21.2 3' = 1'-0"



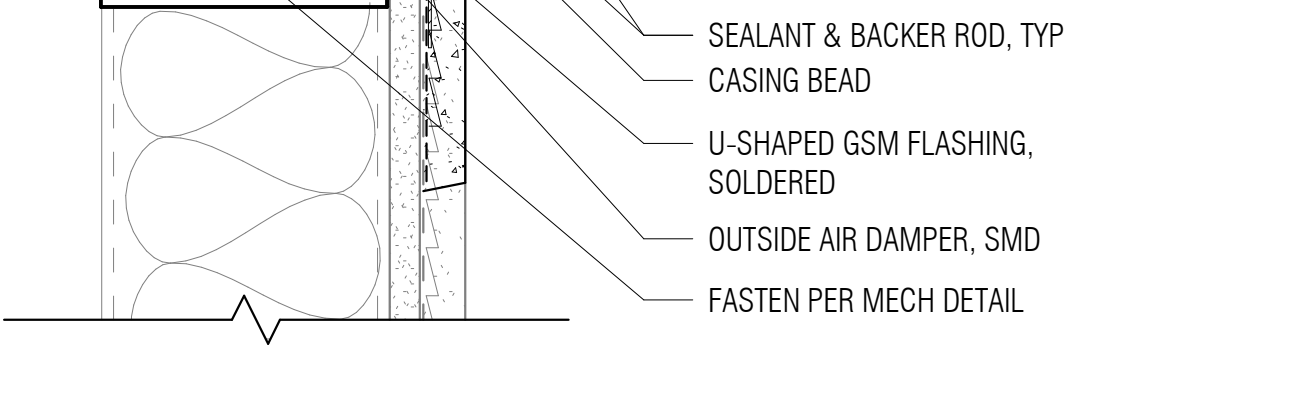
9 FOAM SHAPE @ SOFFIT
A6.21.2 3' = 1'-0"



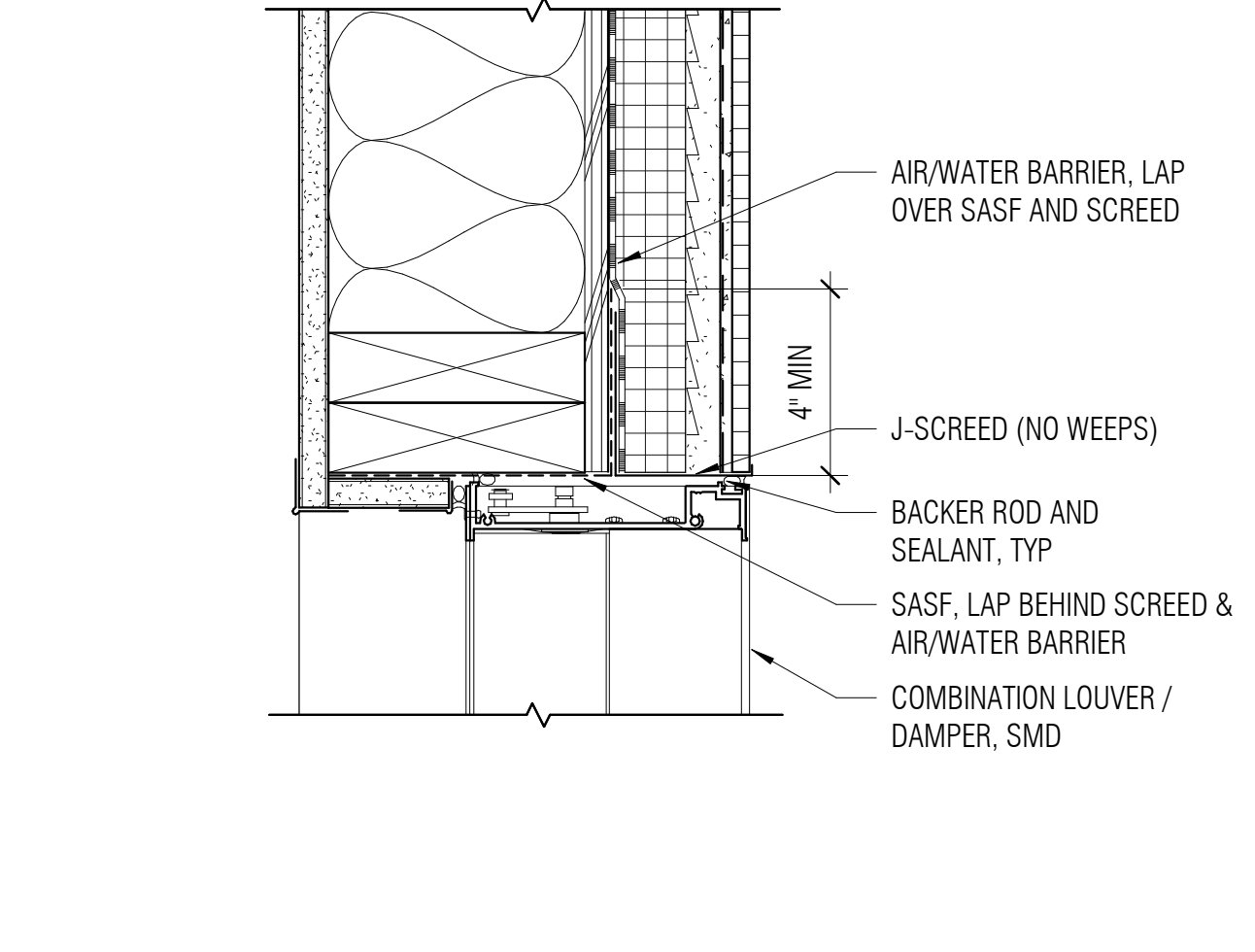
5 CONTROL JT @ CEMENT PLASTER
A6.21.2 6' = 1'-0"



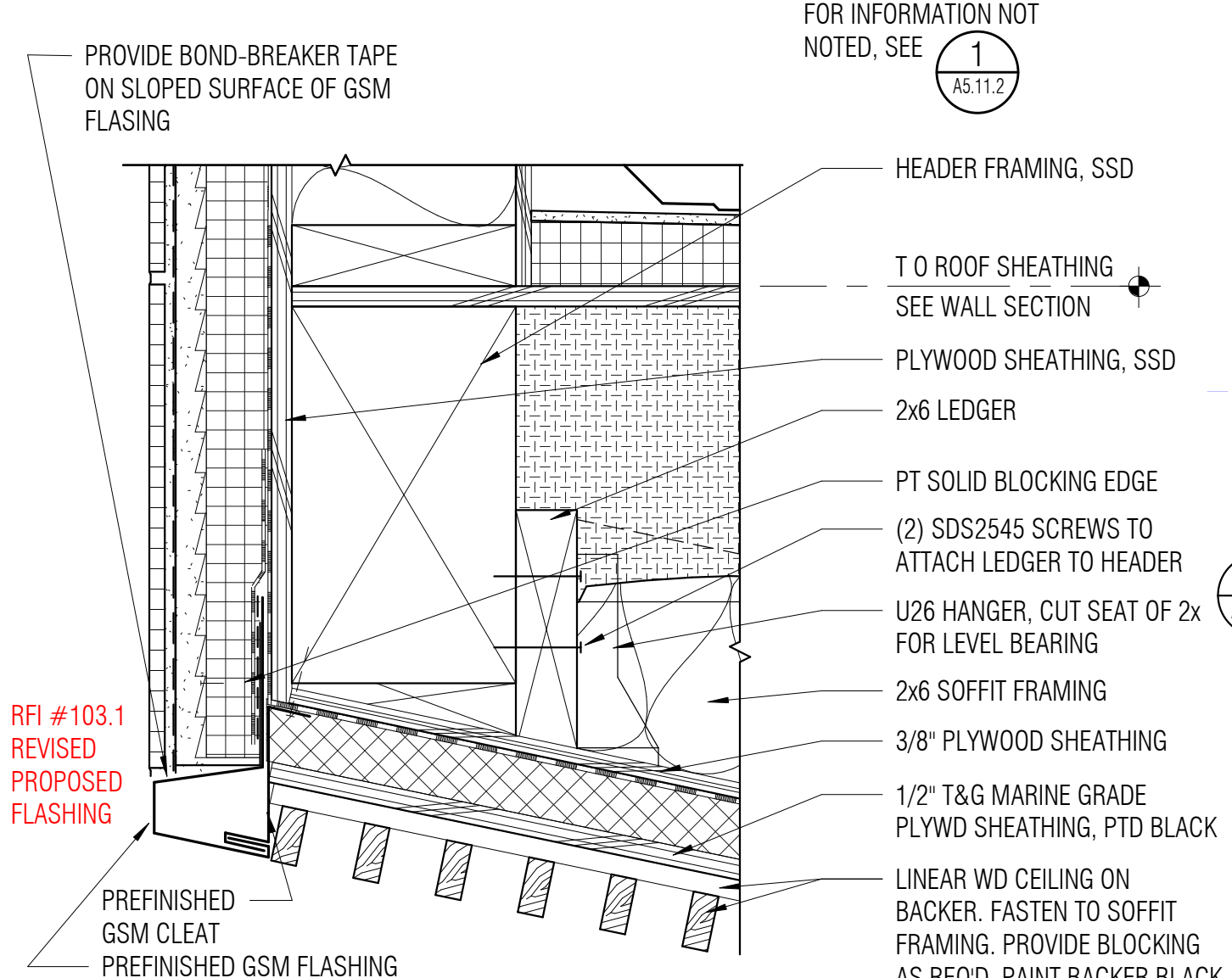
1 CEMENT PLASTER O/ CONT INSUL - ASSEMBLY WA1.1/WA1.2
A6.21.2 3' = 1'-0"



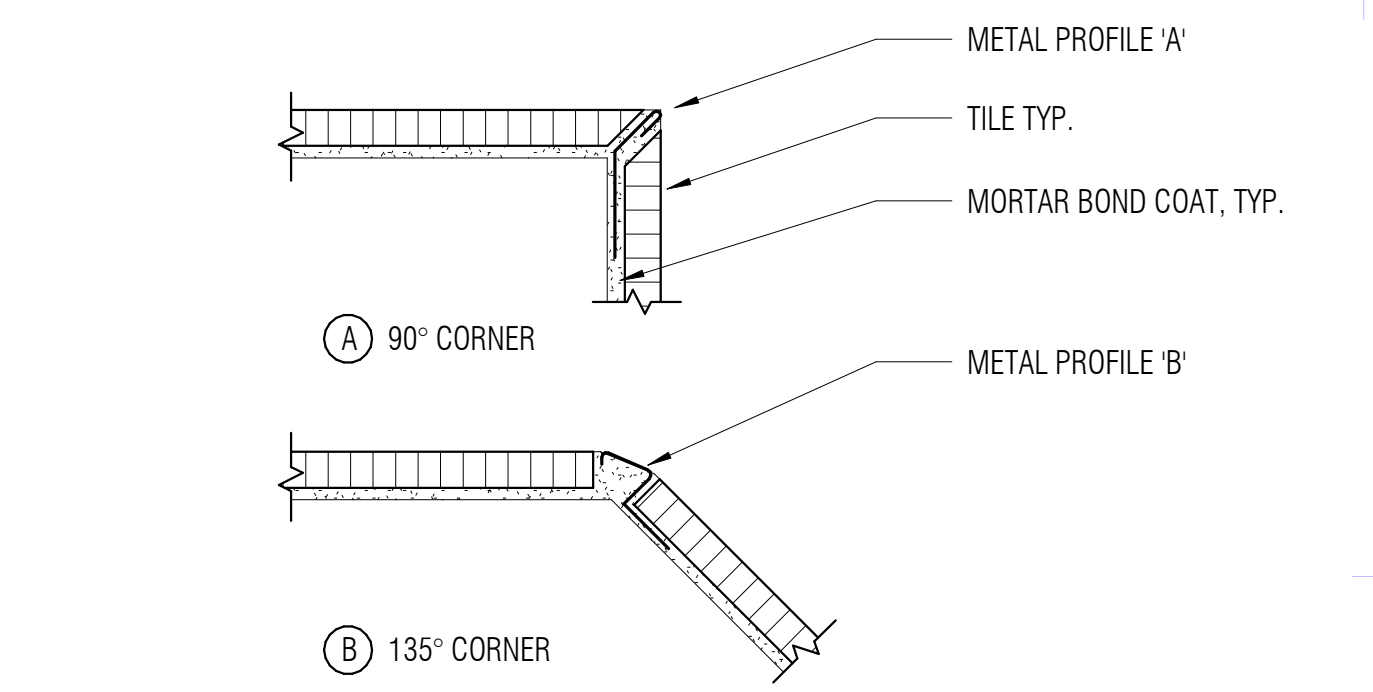
18 EXHAUST FAN PENETRATION @ EXTERIOR WALL
A6.21.2 3' = 1'-0"



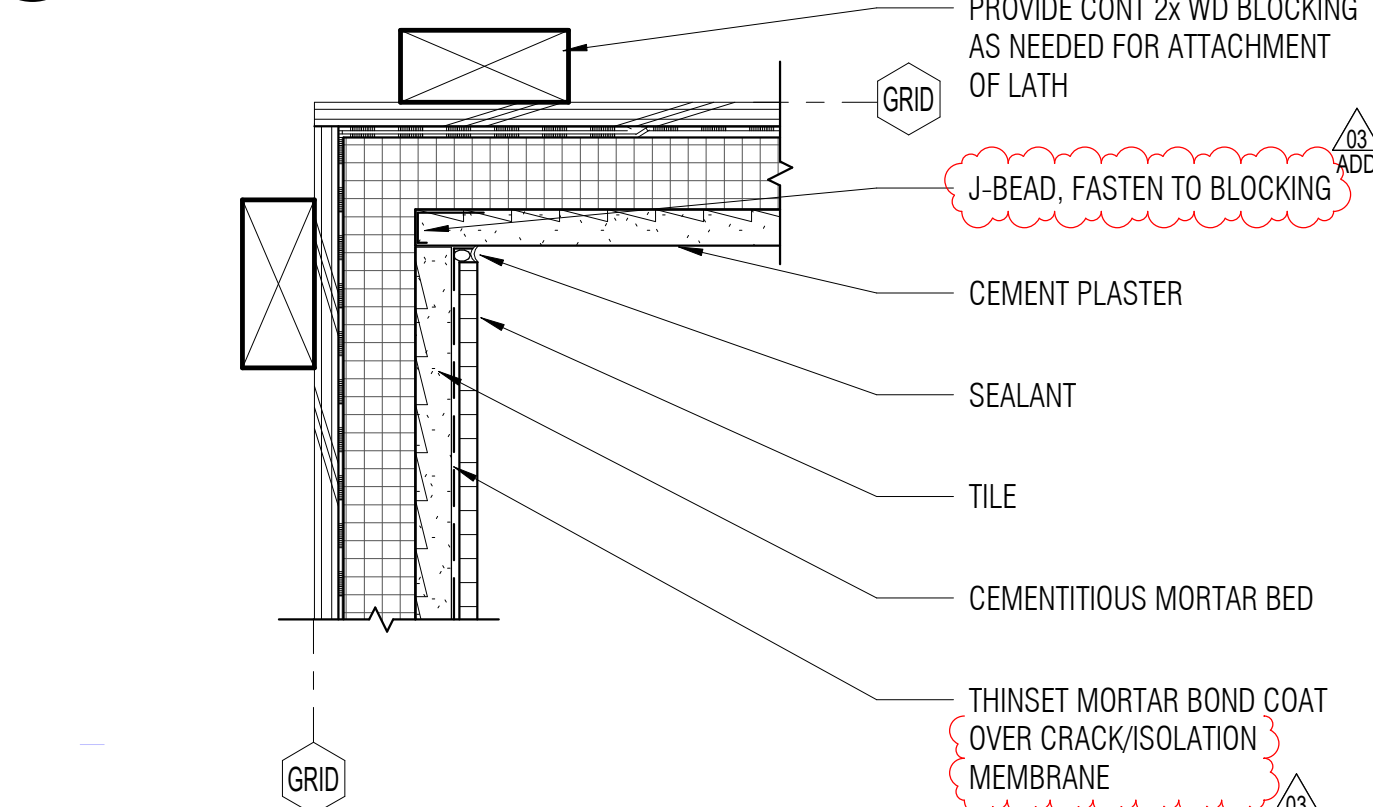
14 LOUVER JAMB @ MECH RM
A6.21.2 3' = 1'-0"



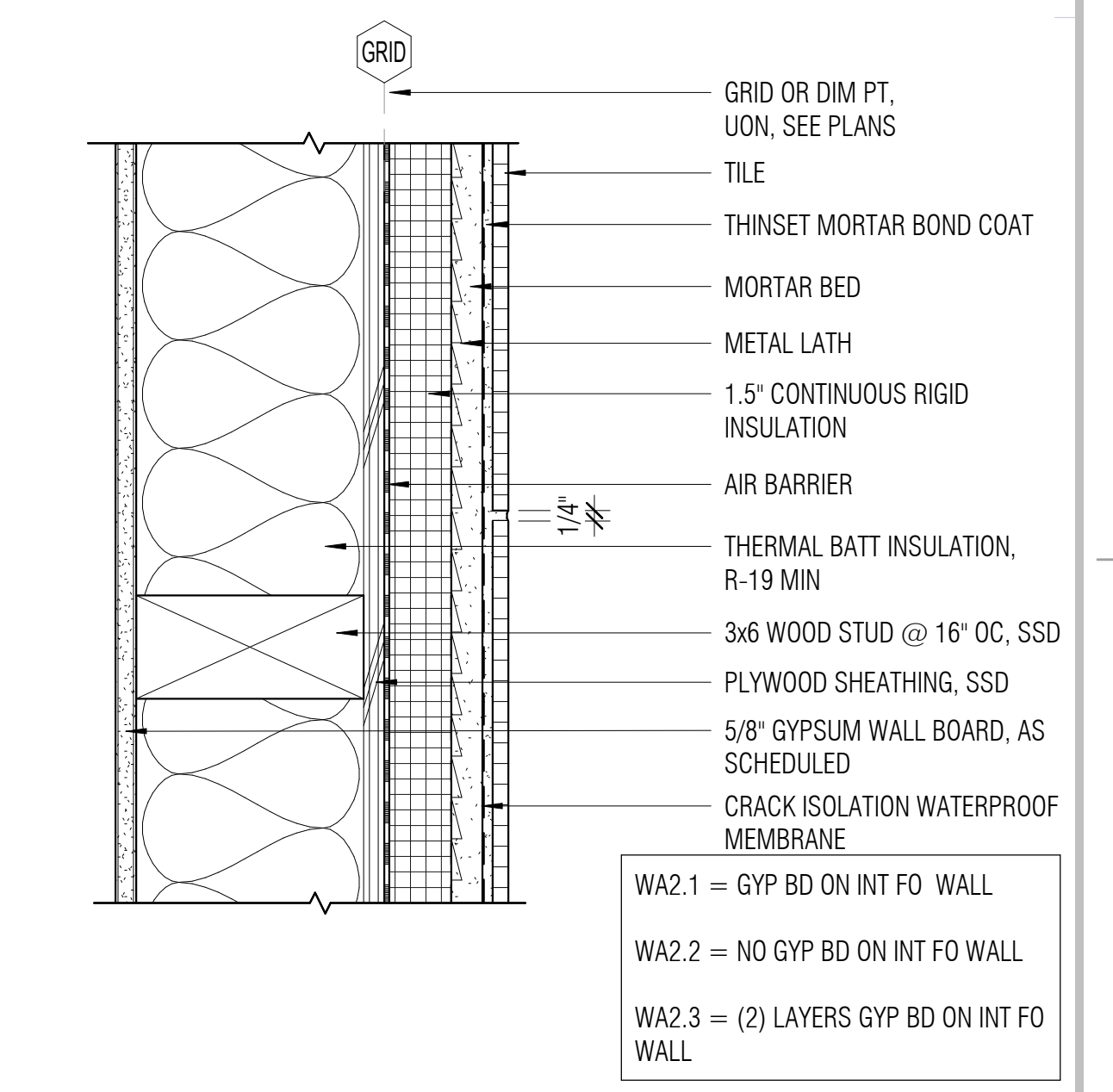
10 HEAD @ LLRC ENTRANCE
A6.21.2 3' = 1'-0"



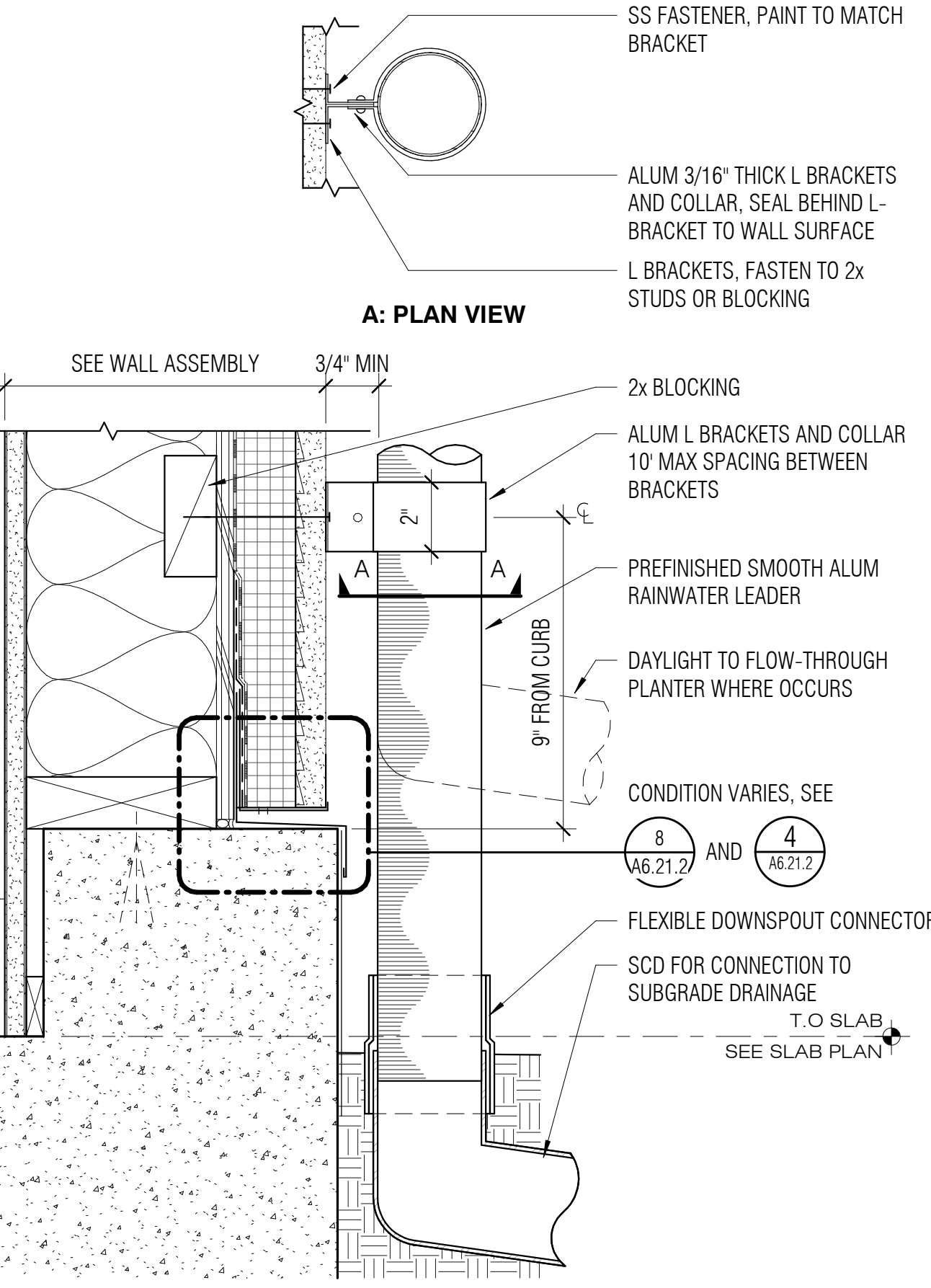
6 TILE CORNER DETAILS
A6.21.2 6' = 1'-0"



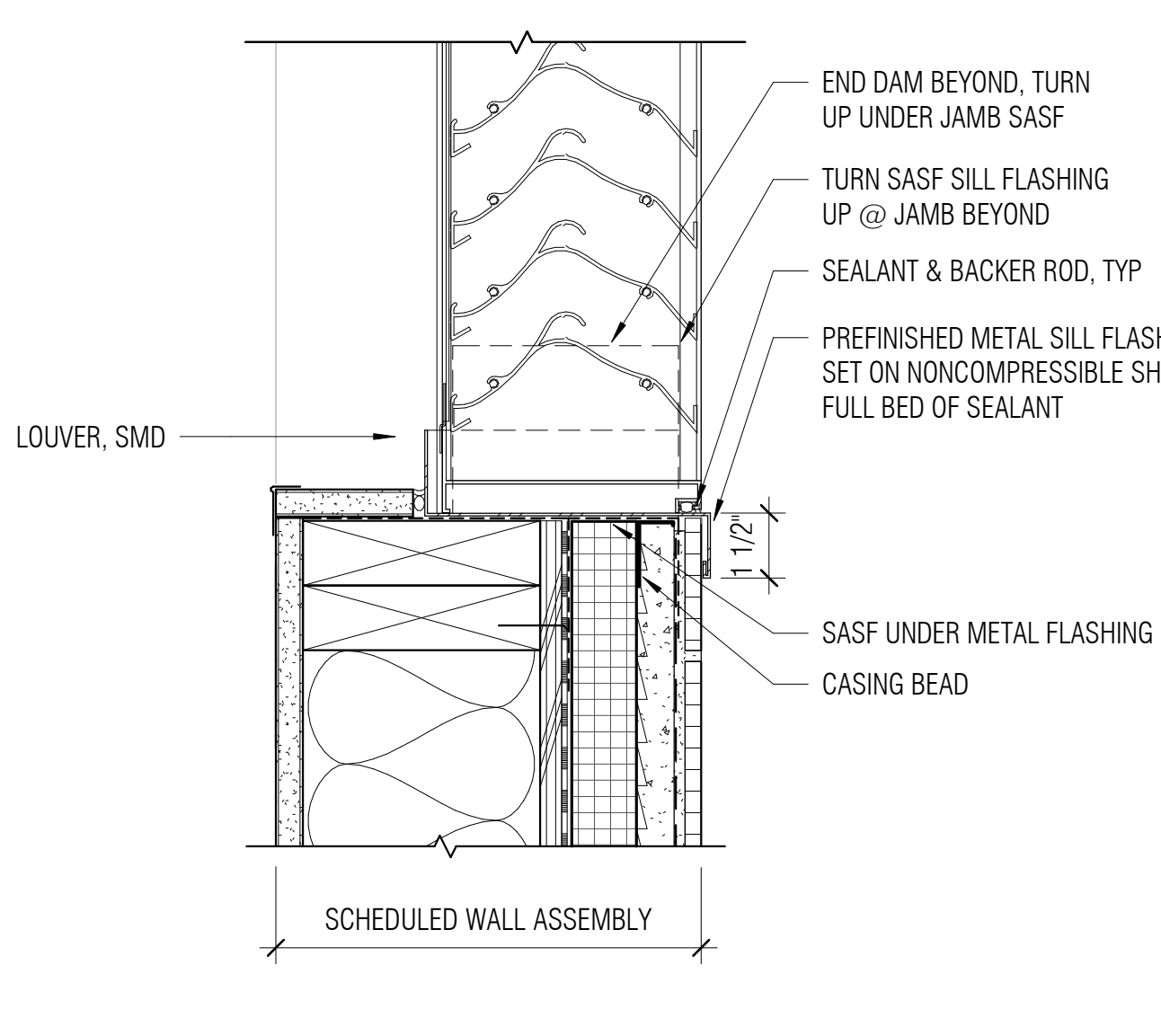
7 INSIDE CORNER TRANSITION @ TILE & CEM PLASTER
A6.21.2 3' = 1'-0"



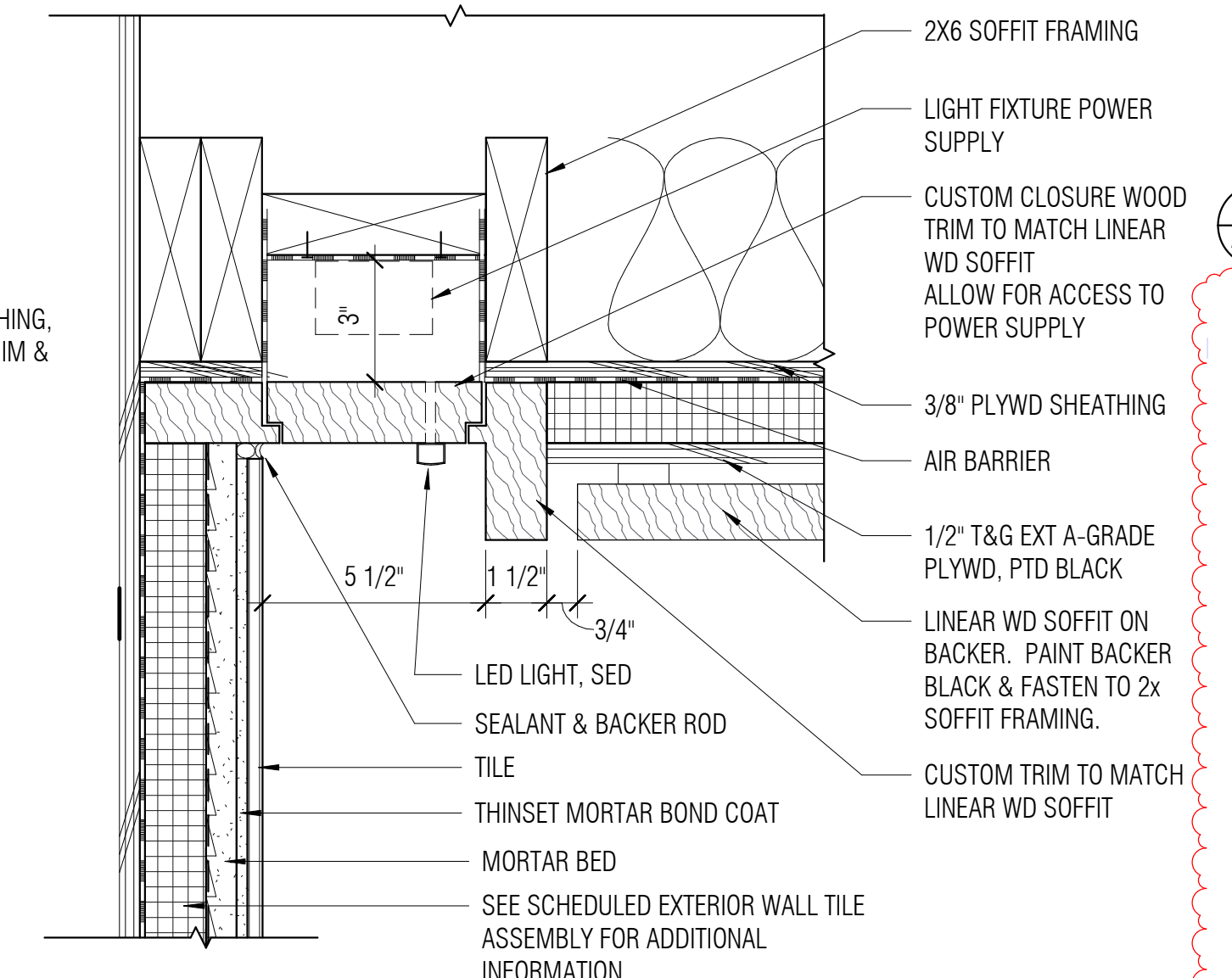
2 TILE OVER CONT INSUL - ASSEMBLY WA2.1/WA2.2
A6.21.2 3' = 1'-0"



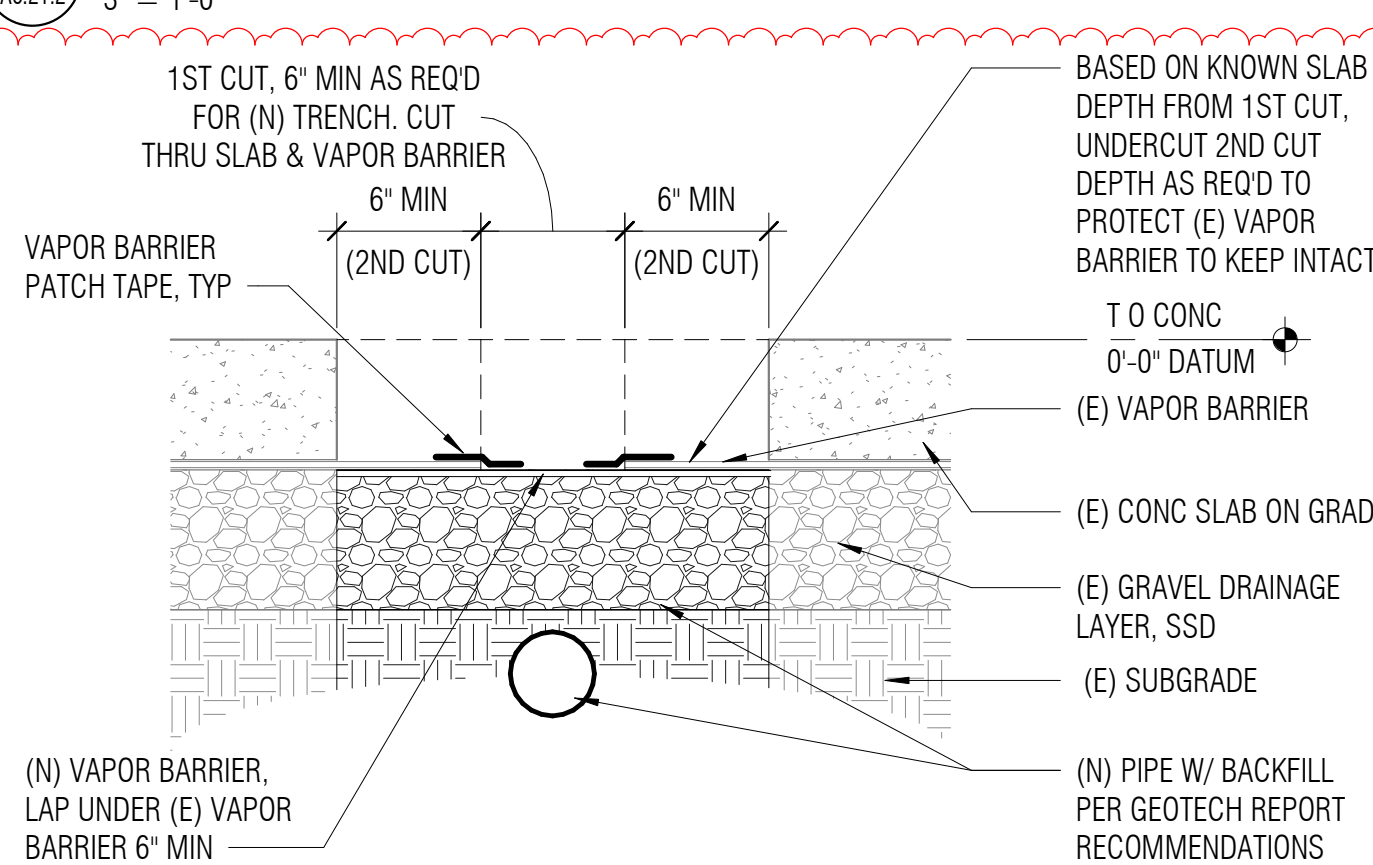
19 DOWNSPOUT CONNECTION TO STORM DRAINAGE
A6.21.2 3' = 1'-0"



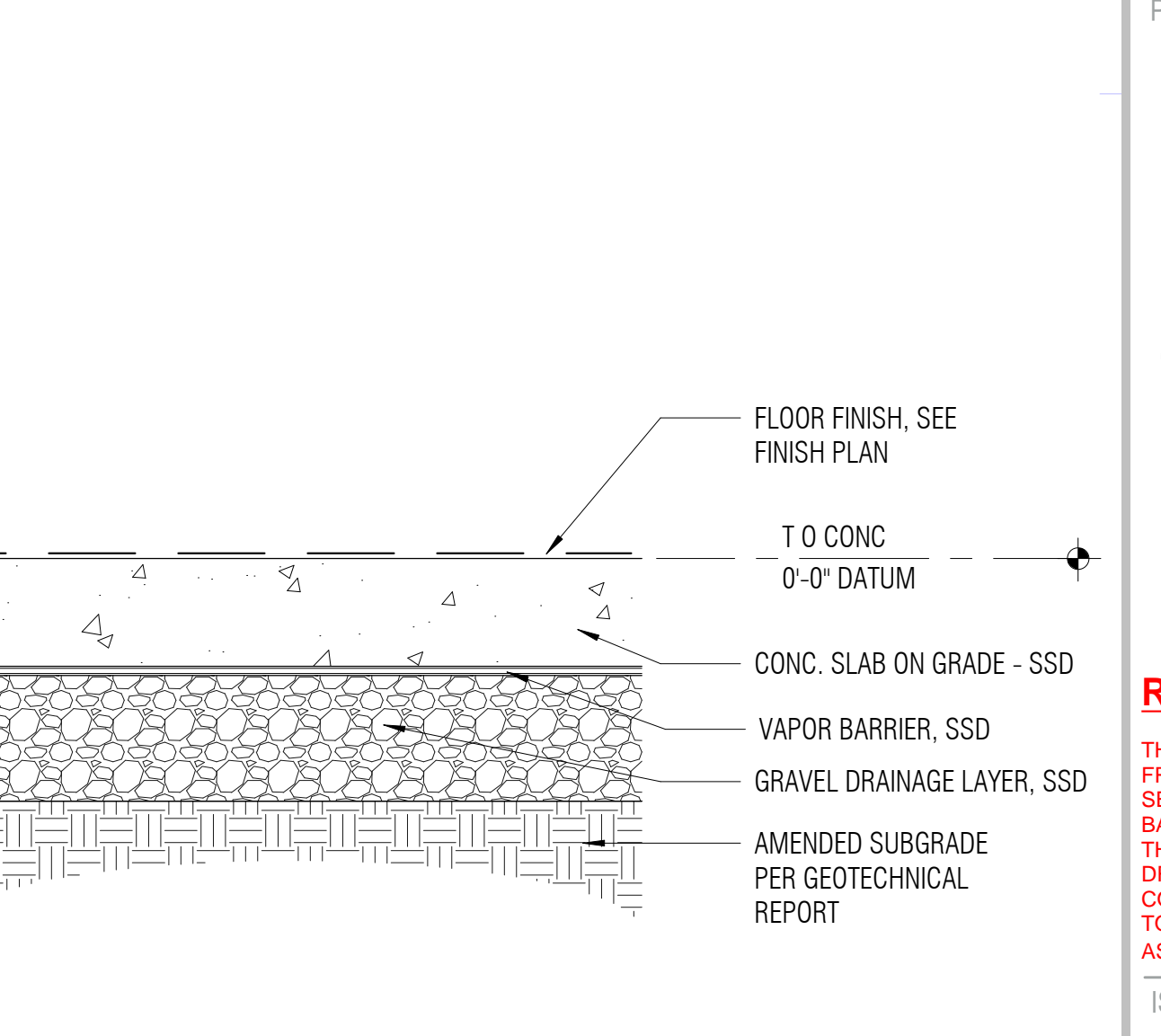
15 LOUVER FLASHING @ MECH RM
A6.21.2 3' = 1'-0"



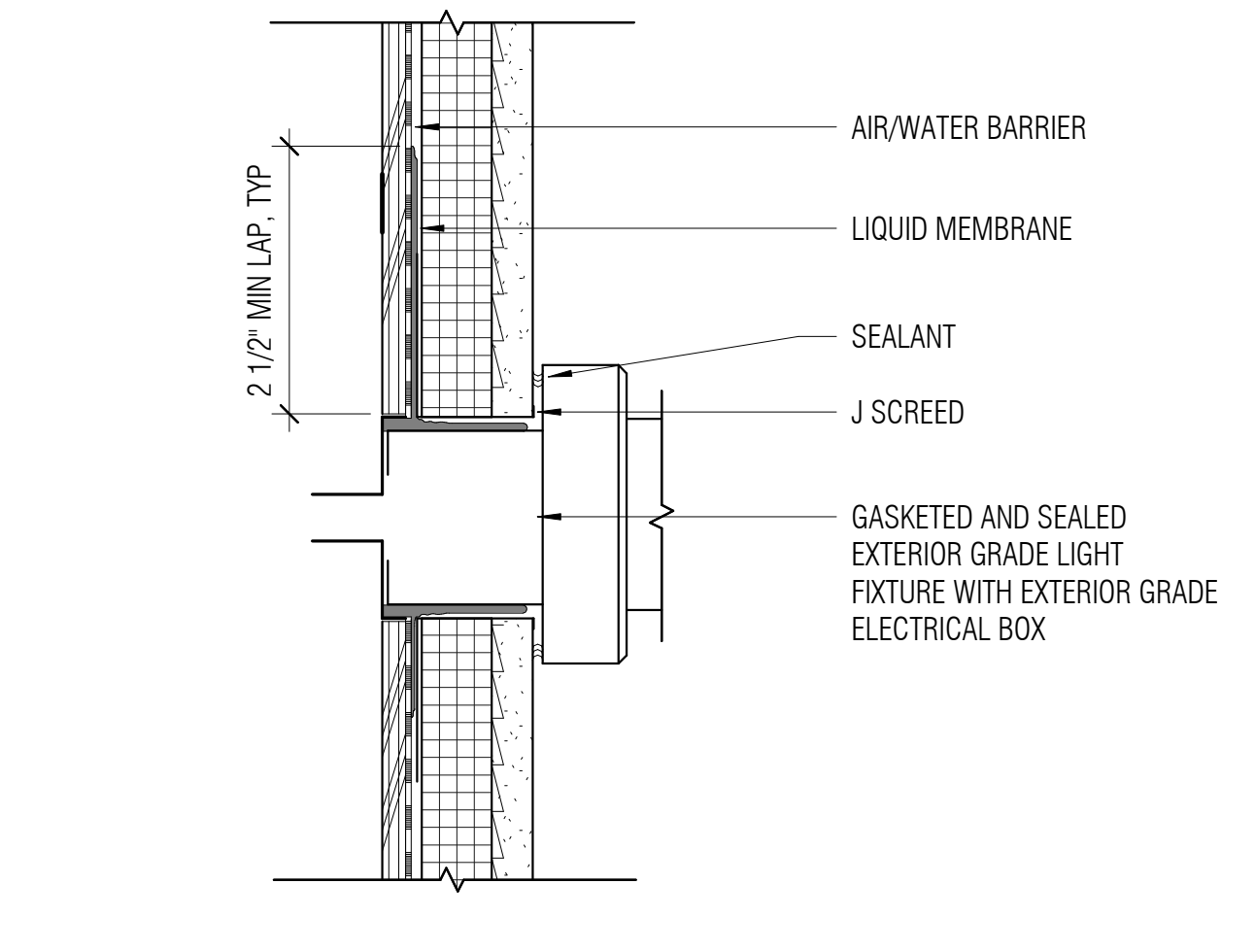
11 RECESSED LIGHT FIXTURE @ LLRC ENTRANCE
A6.21.2 3' = 1'-0"



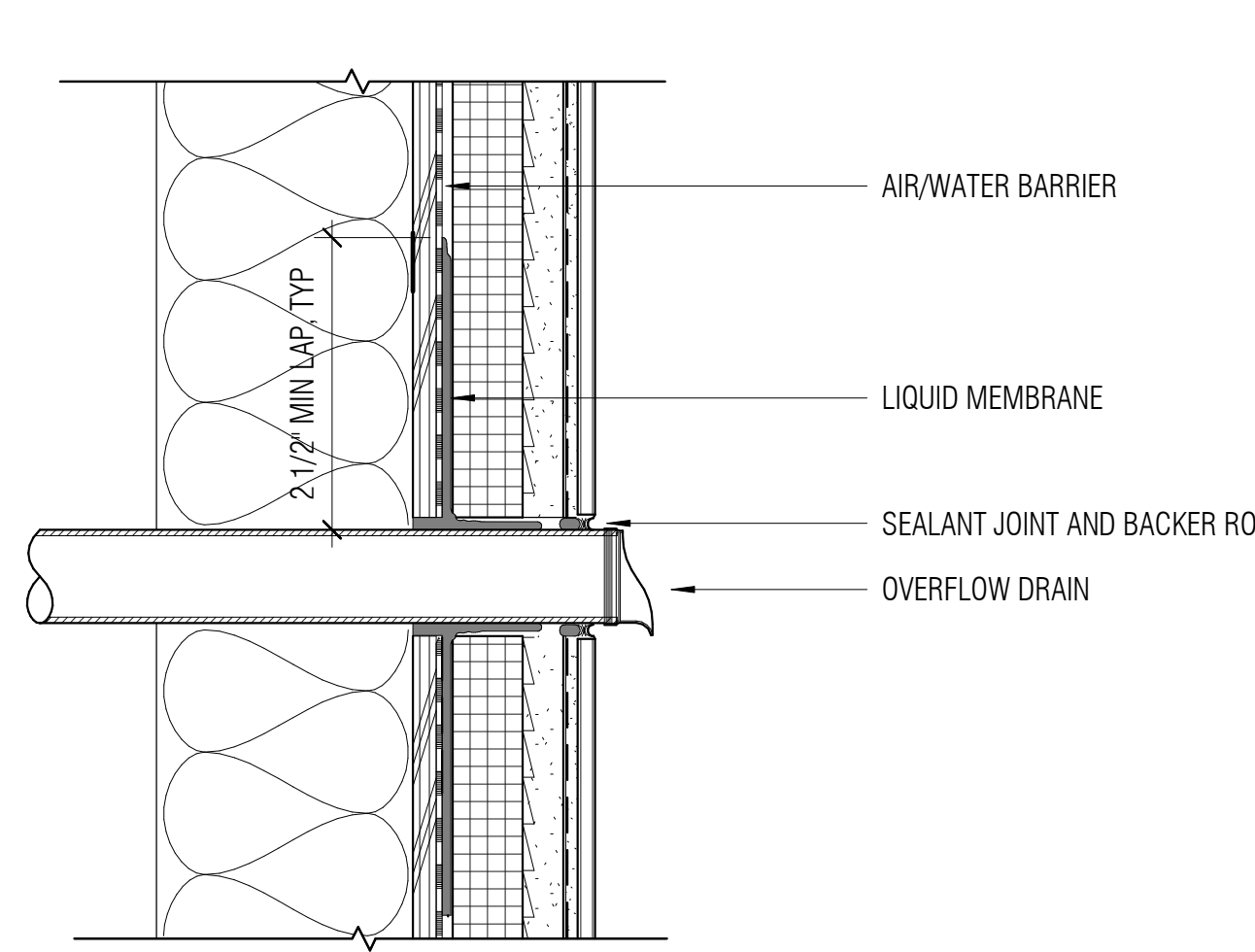
7A VAPOR BARRIER REPAIR @ (E) SLAB ON GRADE
A6.21.2 1 1/2' = 1'-0"



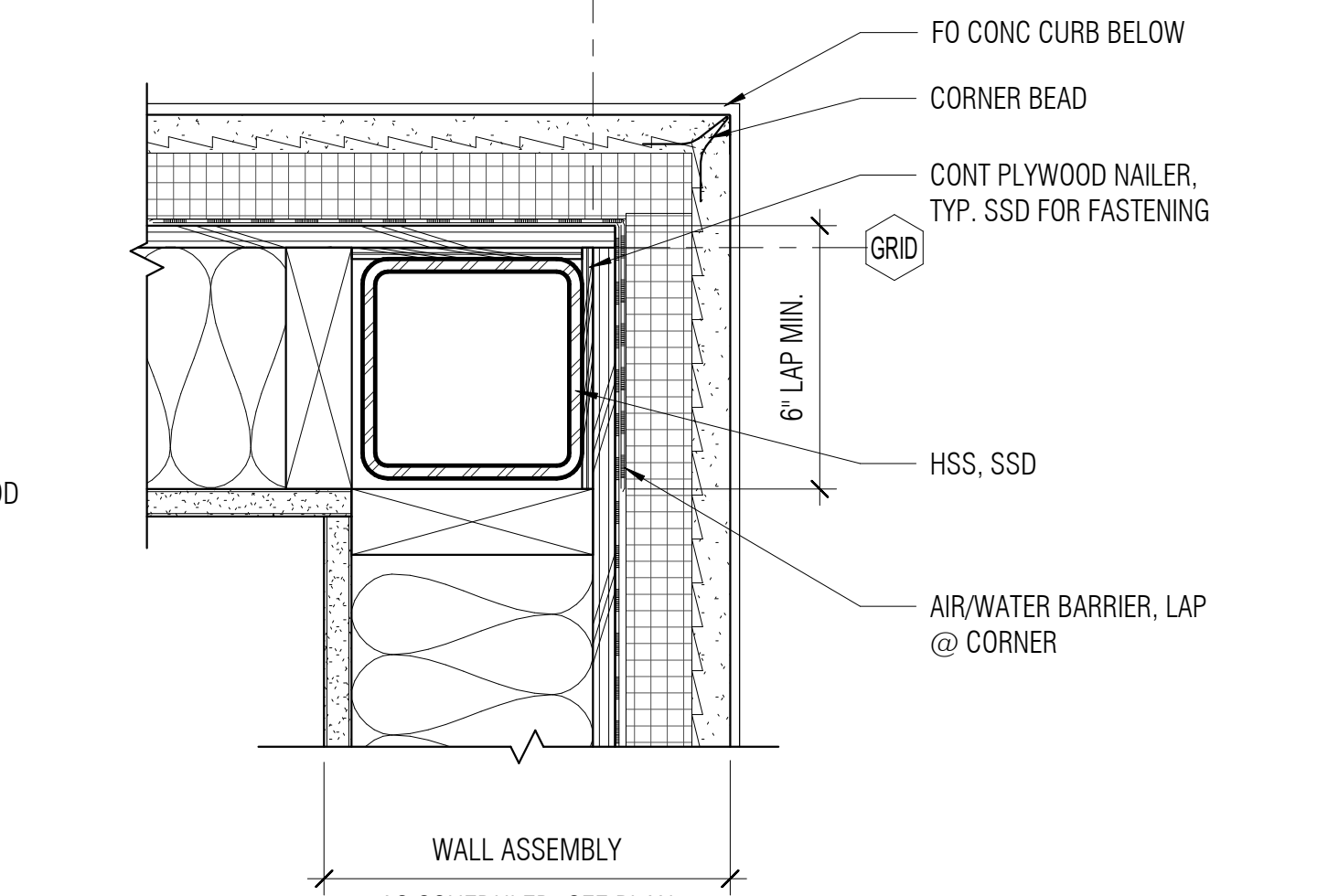
3 SLAB ON GRADE - ASSEMBLY FL-1
A6.21.2 1 1/2' = 1'-0"



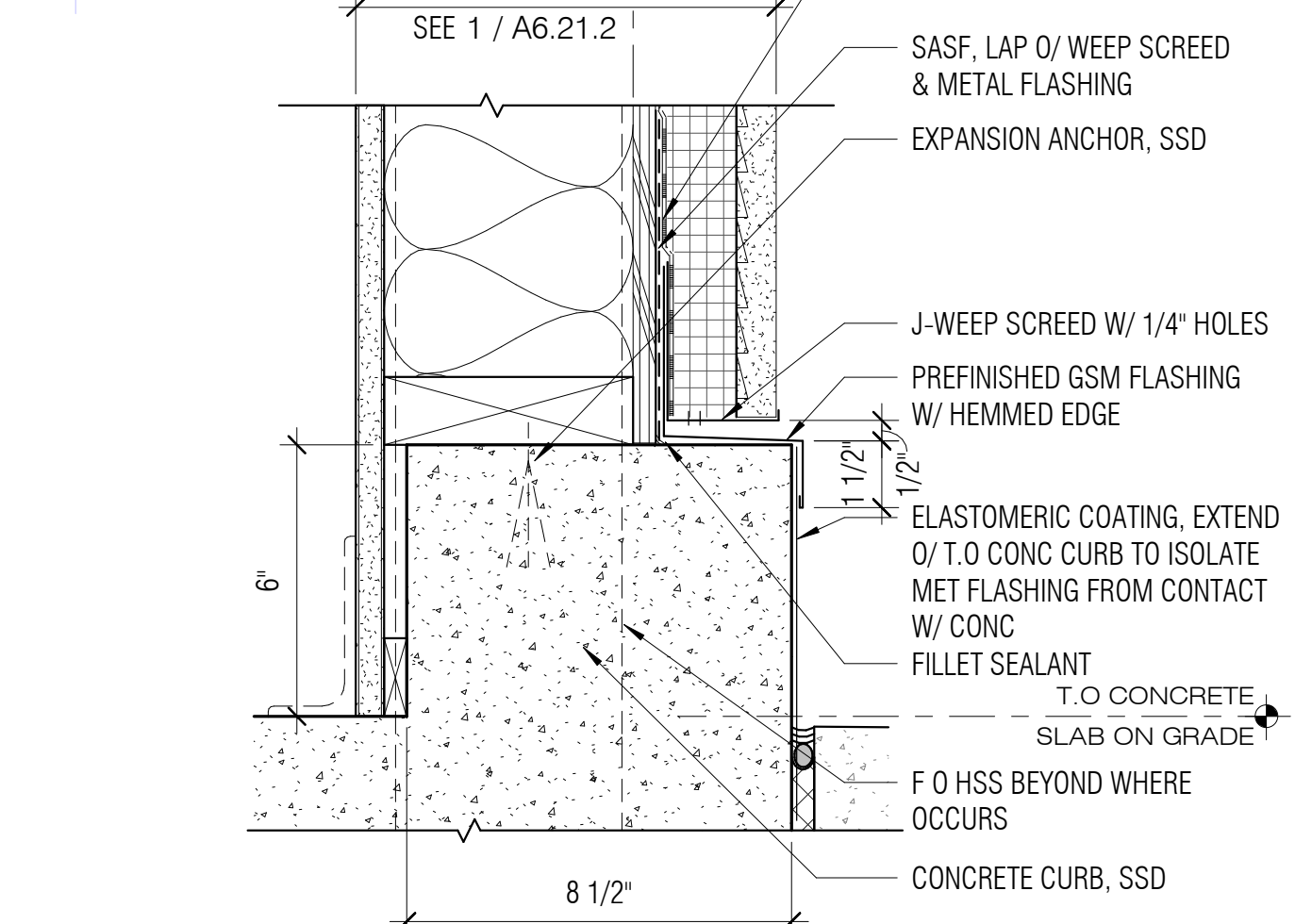
20 ELECTRIC OUTLET / LIGHT FIXTURE AT EXTERIOR
A6.21.2 3' = 1'-0"



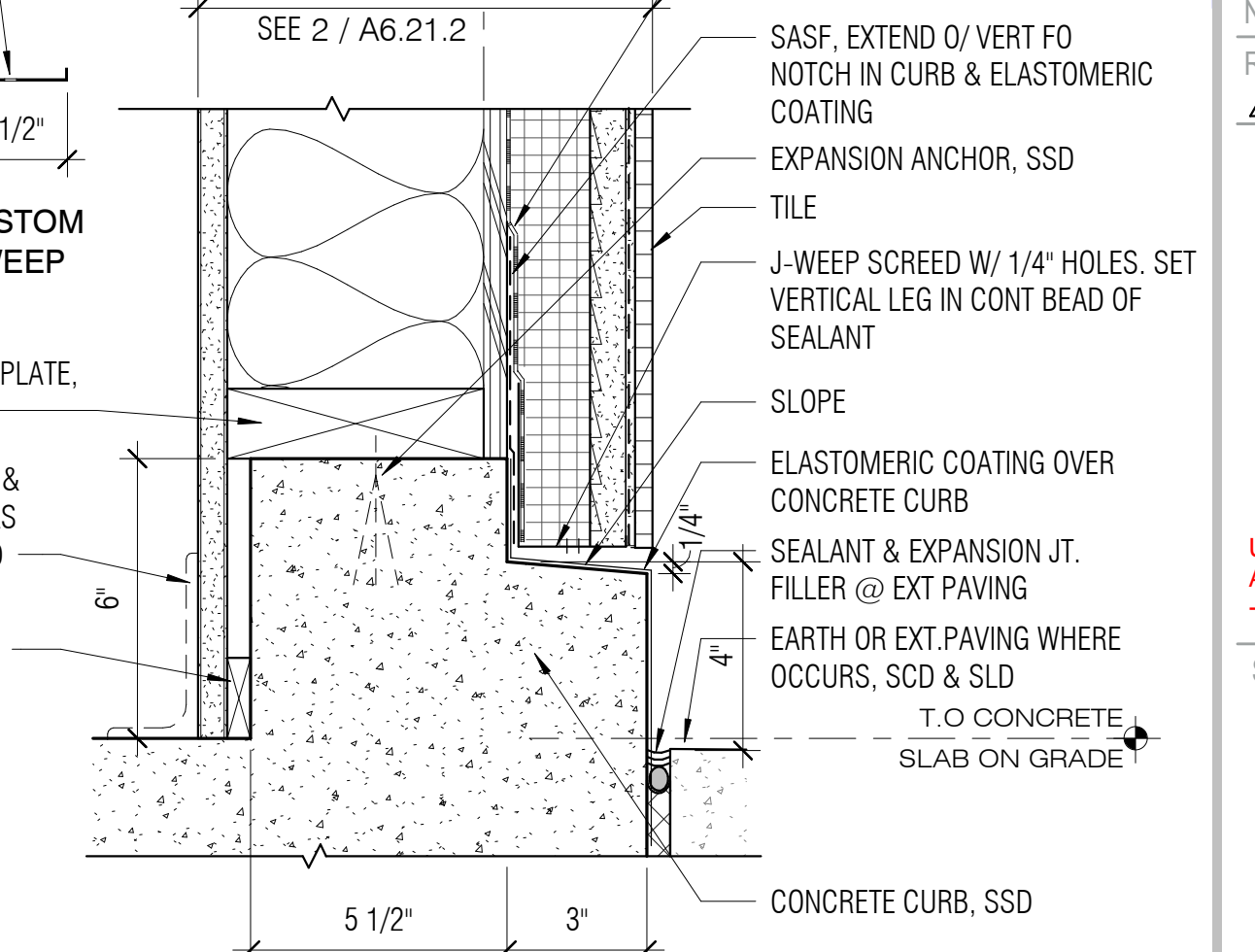
16 FLASHING @ OVERFLOW DRAIN
A6.21.2 3' = 1'-0"



12 OUTSIDE CORNER @ CEMENT PLASTER - PLAN VIEW
A6.21.2 3' = 1'-0"



4 CONCRETE CURB @ CEMENT PLASTER EXTERIOR WALL
A6.21.2 3' = 1'-0"



4A CUSTOM J-WEEP
A6.21.2 3' = 1'-0"

APPROVALS

NOLL & TAM ARCHITECTS

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fax 510.542.2201

ARCHITECTS SEAL

LEARNED ARCHITECT
CHRISTOPHER NOLL
No. C15916
REN. 12-31-21
STATE OF CALIFORNIA

PROJECT TITLE

CONTRA COSTA CCD D-4002

DVC SAN RAMON CAMPUS EXPANSION & RENOVATION

1690 Watermill Rd.
San Ramon, CA 94582

ISSUE TITLE

INCREMENT 2

RECORD SET:

THESE DRAWINGS HAVE BEEN PREPARED FROM ADDENDUMS, CCD'S, ASIS AND SELECT RFI'S OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM. ONLY A SELECT FEW AS-BUILTS WERE SUBMITTED.

ISSUE DATE 5/30/2019

NOLL & TAM JOB NUMBER 21630

REVISIONS

| DATE | DESCRIPTION |
|---------|---------------------|
| 8/27/19 | INC 2 - ADDENDUM 03 |

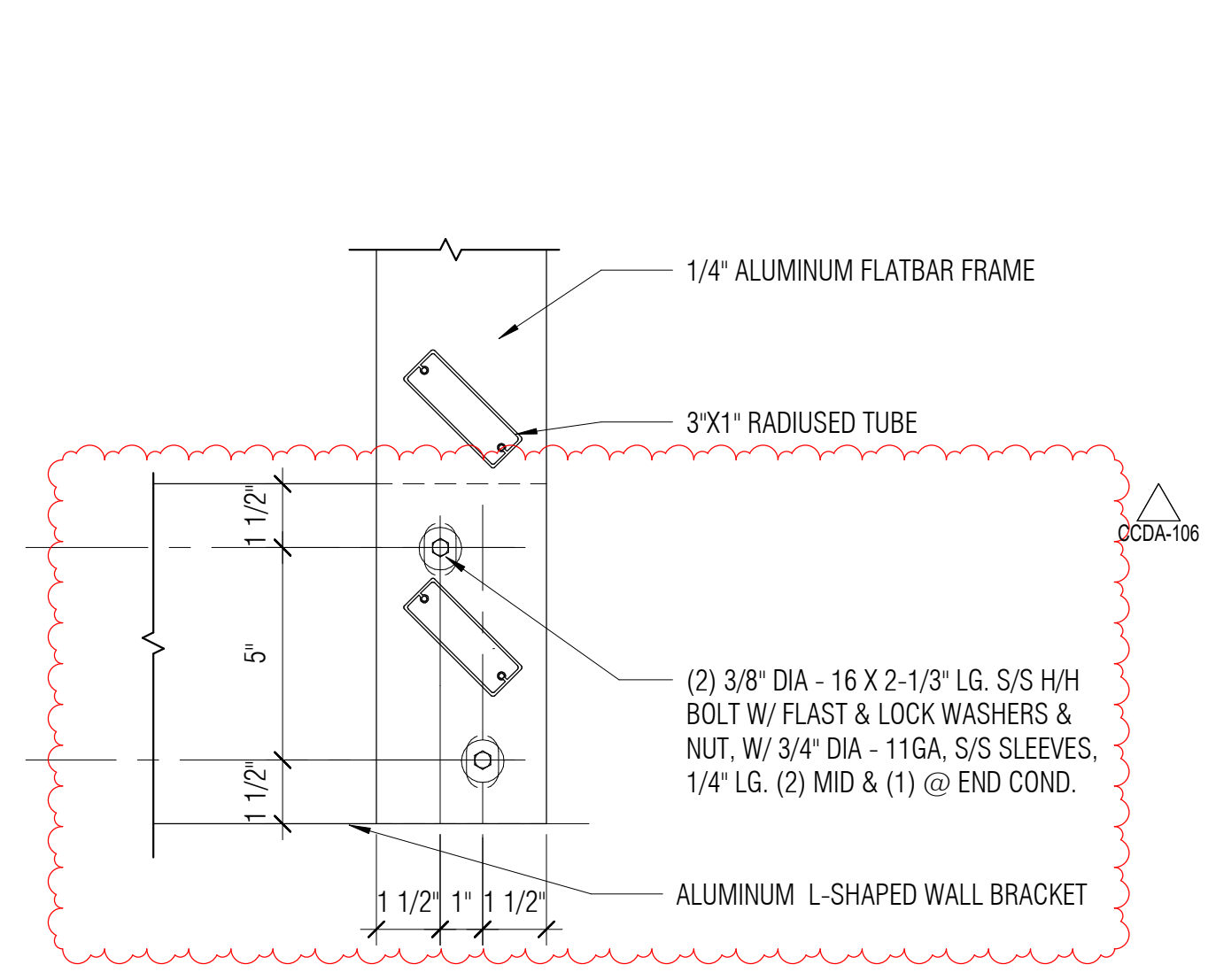
UPDATED INFO: REFER TO SELF ADHERING AIR BARRIER SUBMITTAL - ATTACHED AT END OF SET

SHEET TITLE

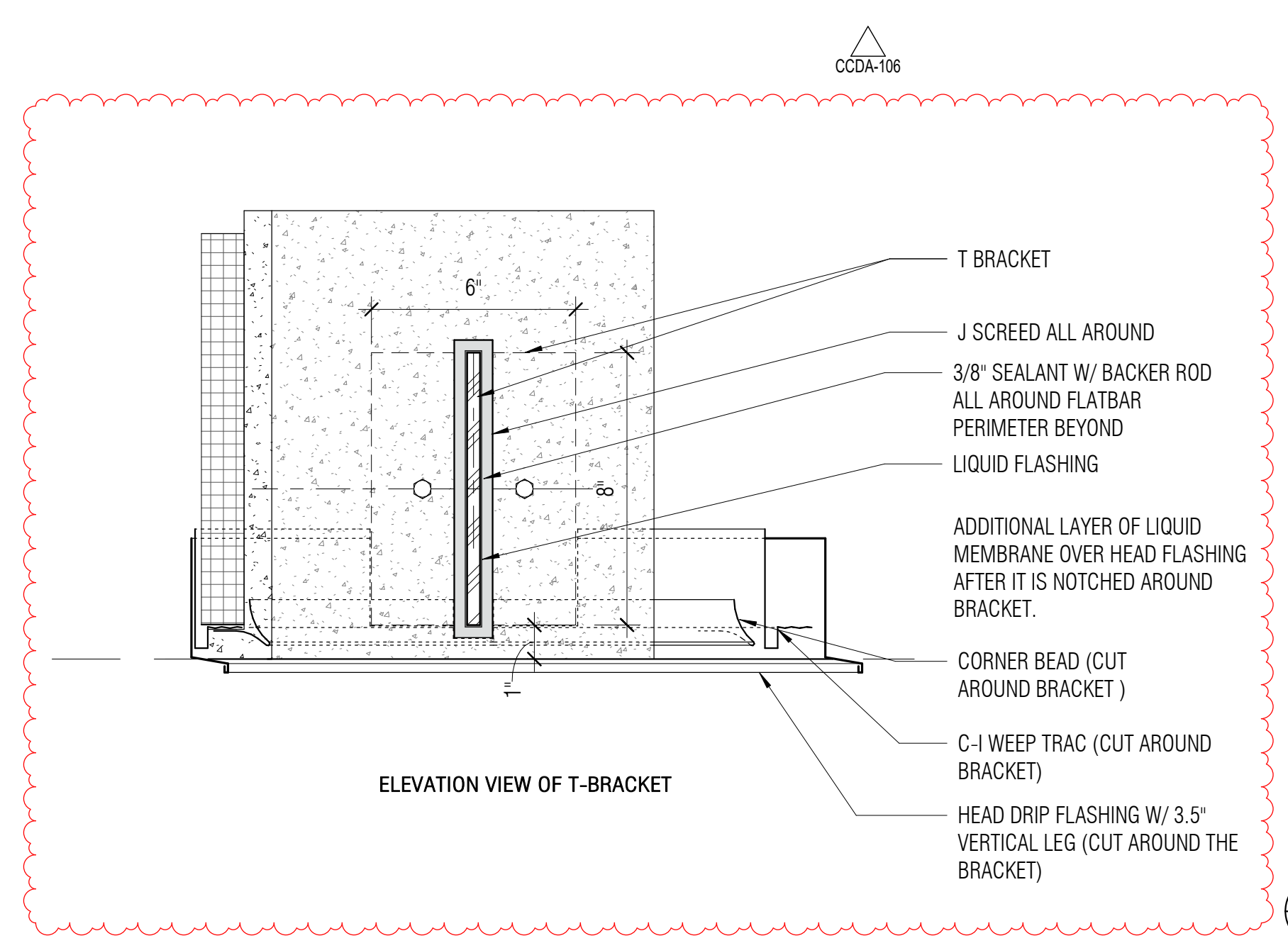
EXTERIOR WALL ASSEMBLIES & DETAILS

SHEET NUMBER

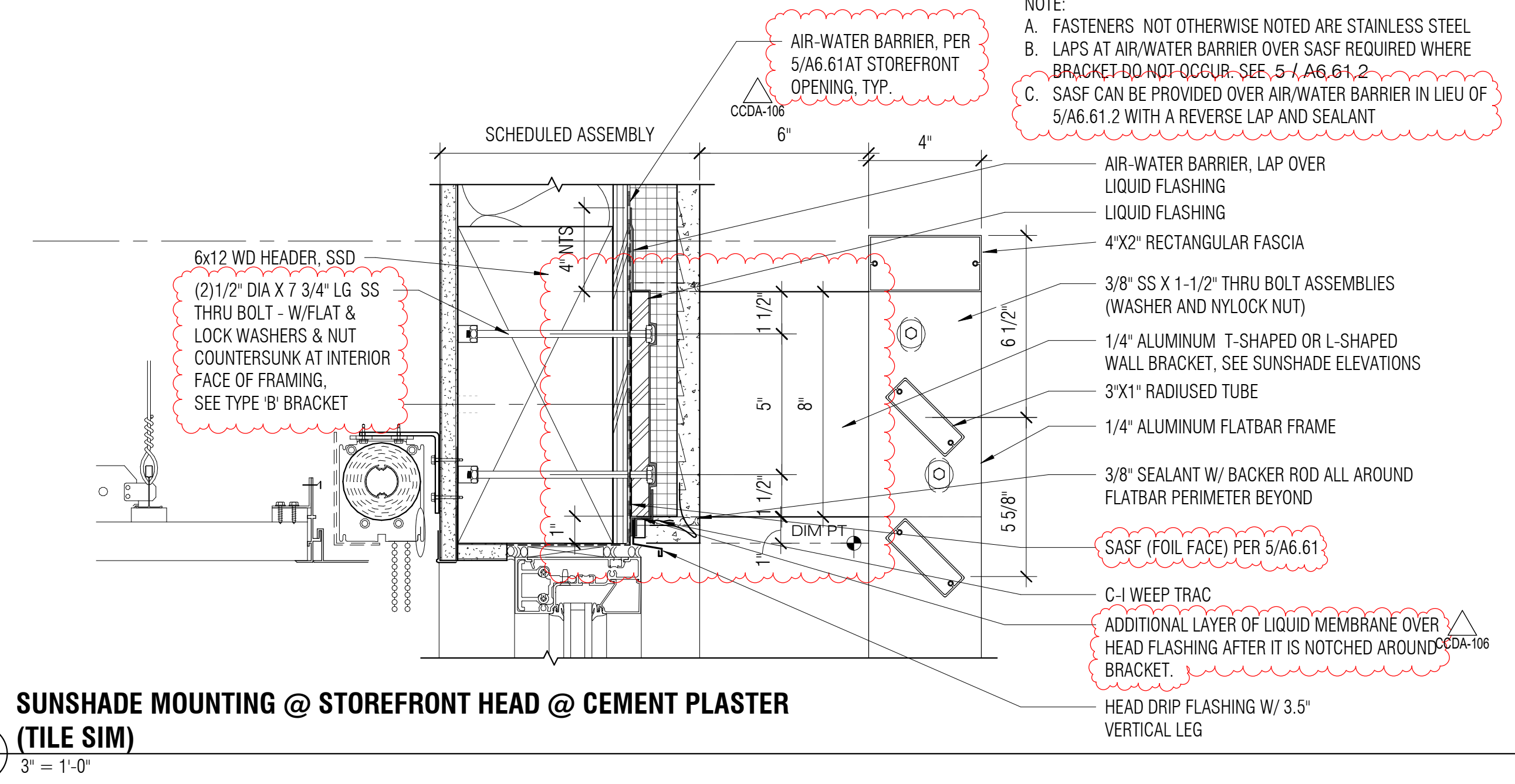
A6.21.2



5 SUNSHADE BOTTOM BRACKET
 46.22.2 3" = 1'-0"



1 SUNSHADE MOUNTING @ STOREFRONT HEAD @ CEMENT PLASTER (TILE SIM)
 46.22.2 3" = 1'-0"

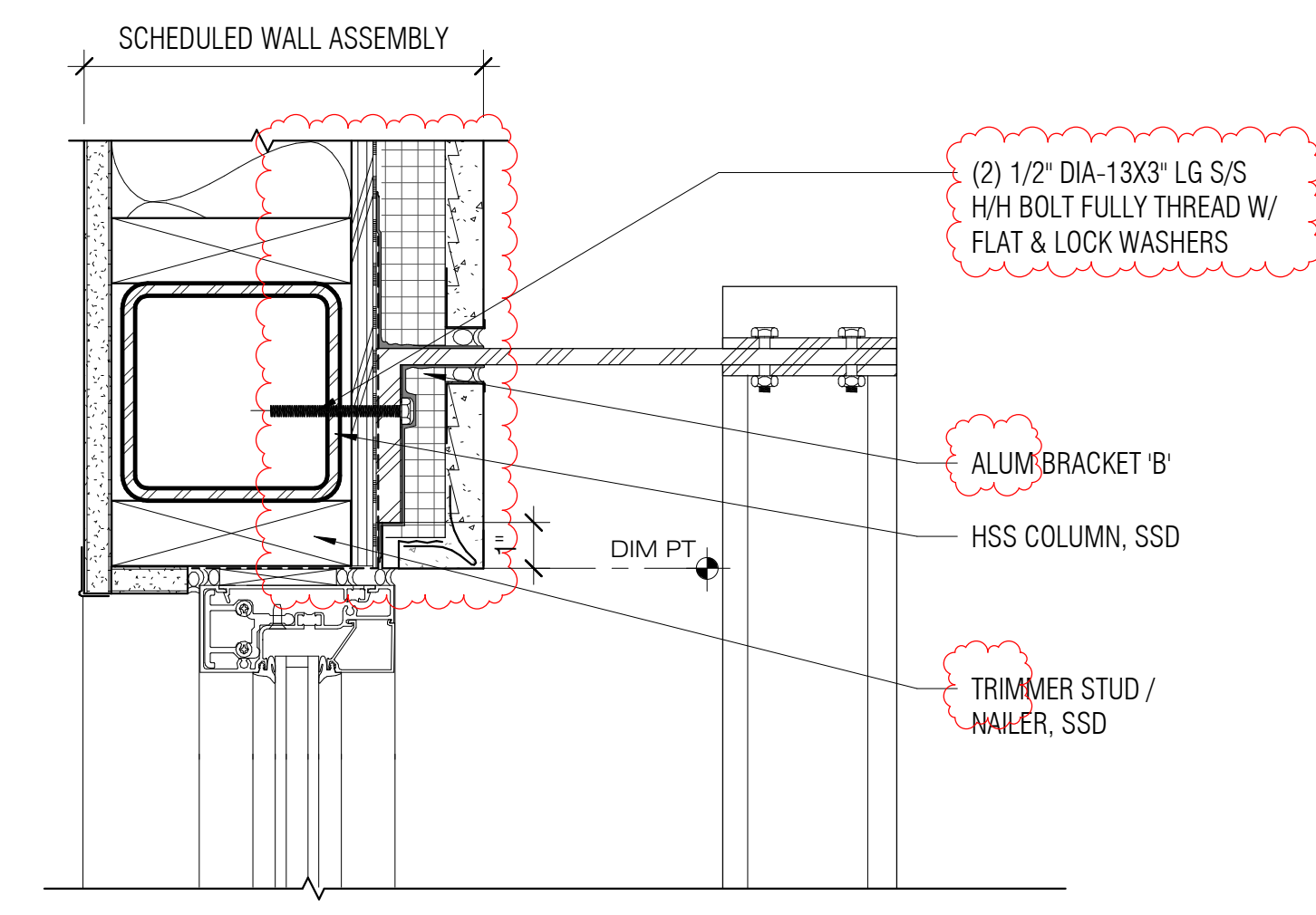


NOTE:
 A. FASTENERS NOT OTHERWISE NOTED ARE STAINLESS STEEL
 B. LAPS AT AIR/WATER BARRIER OVER SASF REQUIRED WHERE BRACKET DO NOT OCCUR. SEE 5-7, A6.61.2
 C. SASF CAN BE PROVIDED OVER AIR/WATER BARRIER IN LIEU OF 5/A6.61.2 WITH A REVERSE LAP AND SEALANT

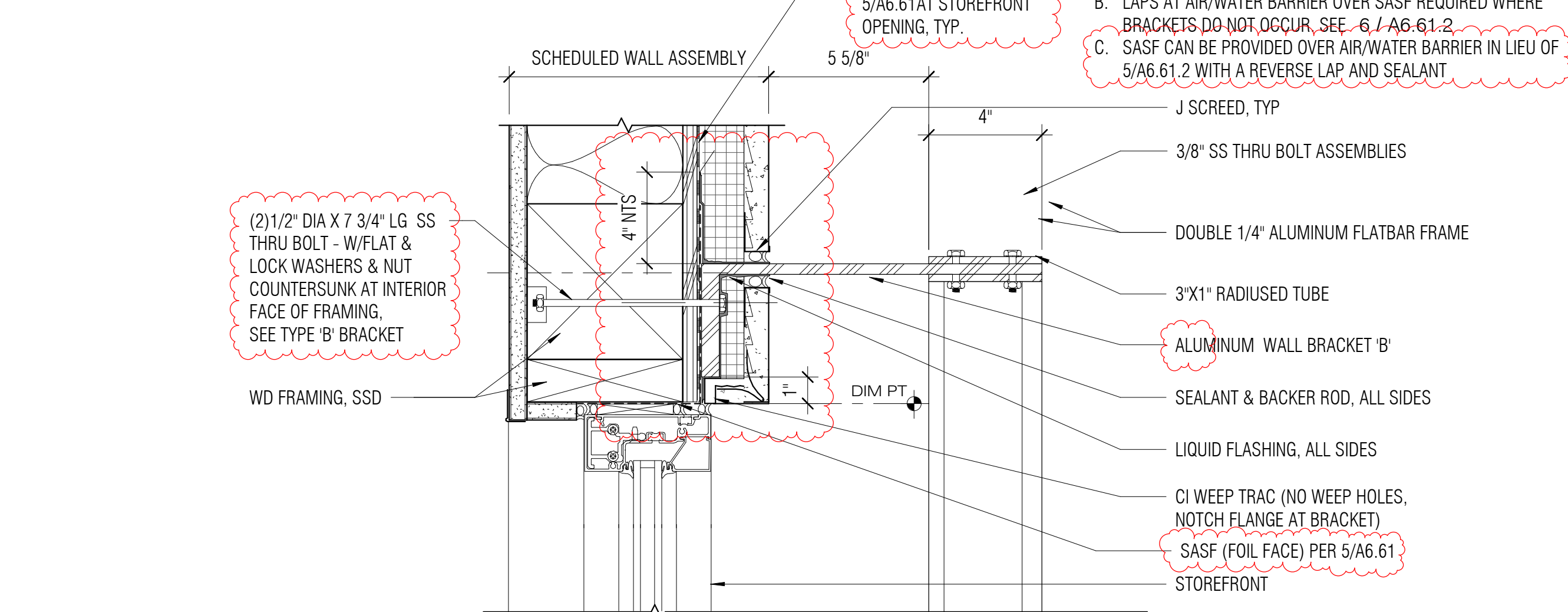
APPROVALS

NOLL & TAM ARCHITECTS
 729 Heinz Avenue
 Berkeley, CA 94710
 tel 510.542.2200
 fax 510.542.2201

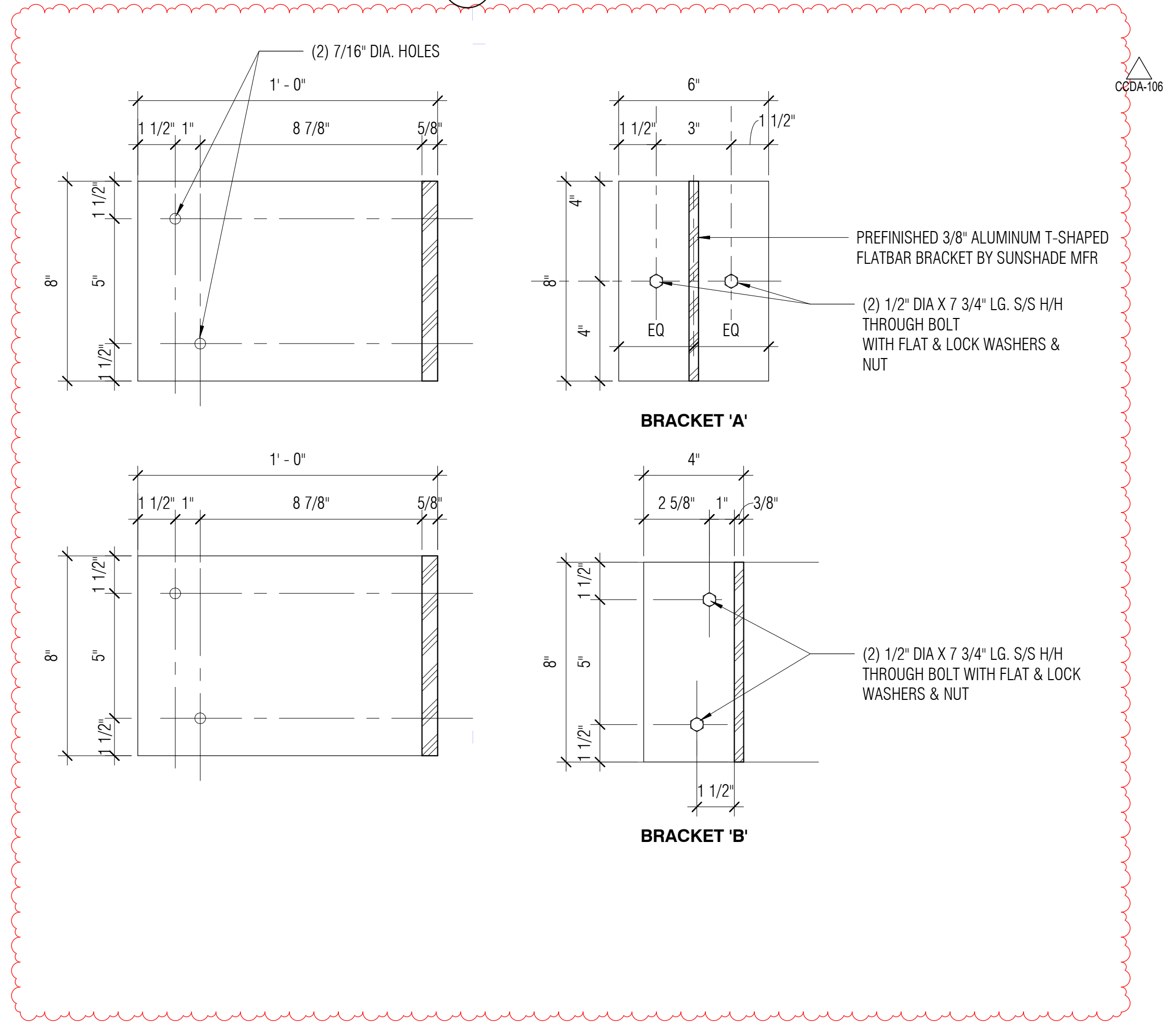
ARCHITECTS SEAL



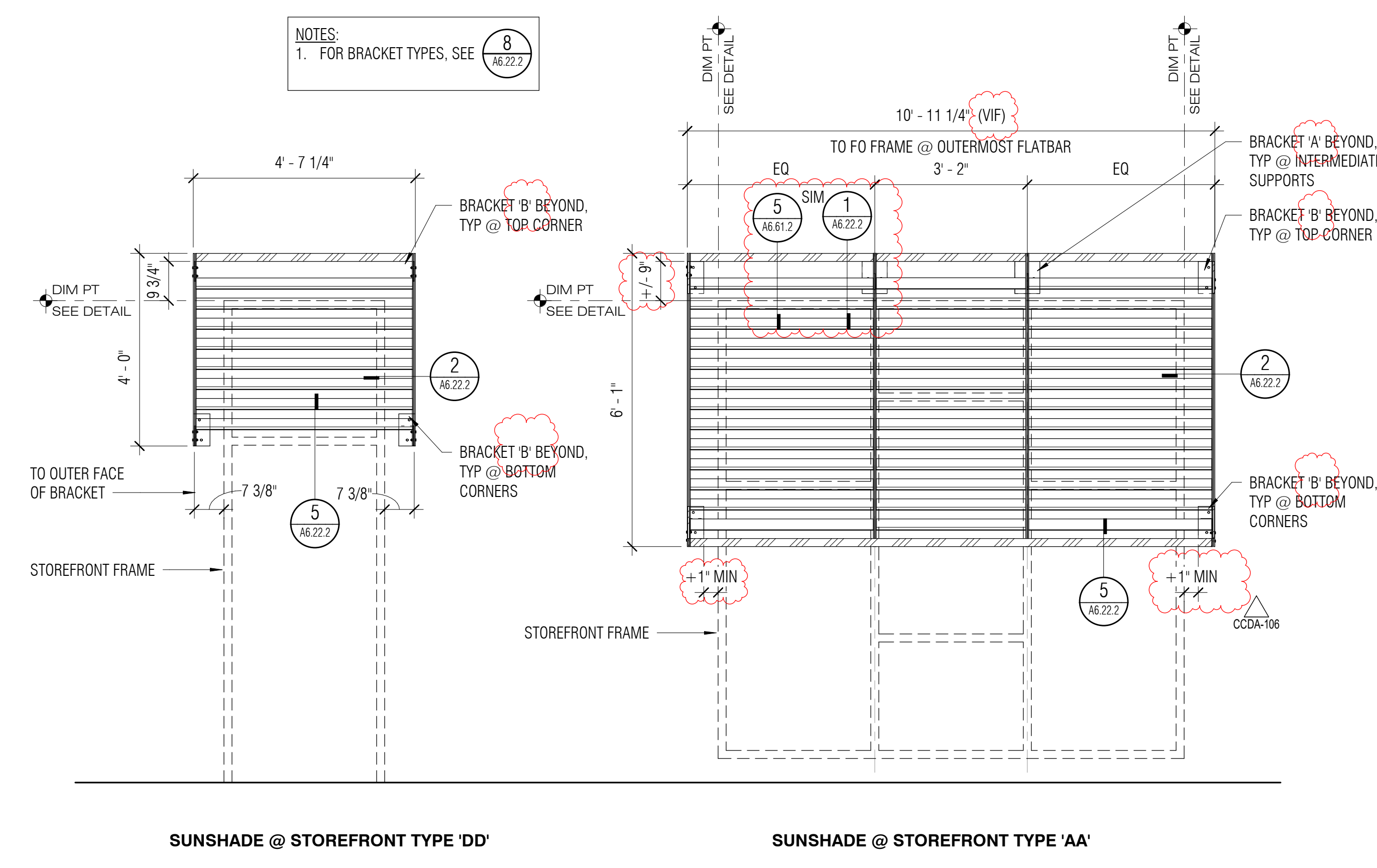
6 SUNSHADE MOUNTING @ STOREFRONT JAMB @ CEMENT PLASTER & HSS
 46.22.2 3" = 1'-0"



2 SUNSHADE MOUNTING @ STOREFRONT JAMB @ CEMENT PLASTER (TILE SIM)
 46.22.2 3" = 1'-0"



8 SUNSHADE BRACKETS
 46.22.2 3" = 1'-0"



3 SUNSHADE ELEVATIONS
 46.22.2 1/2" = 1'-0"

PROJECT TITLE

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ISSUE TITLE

INCREMENT 2

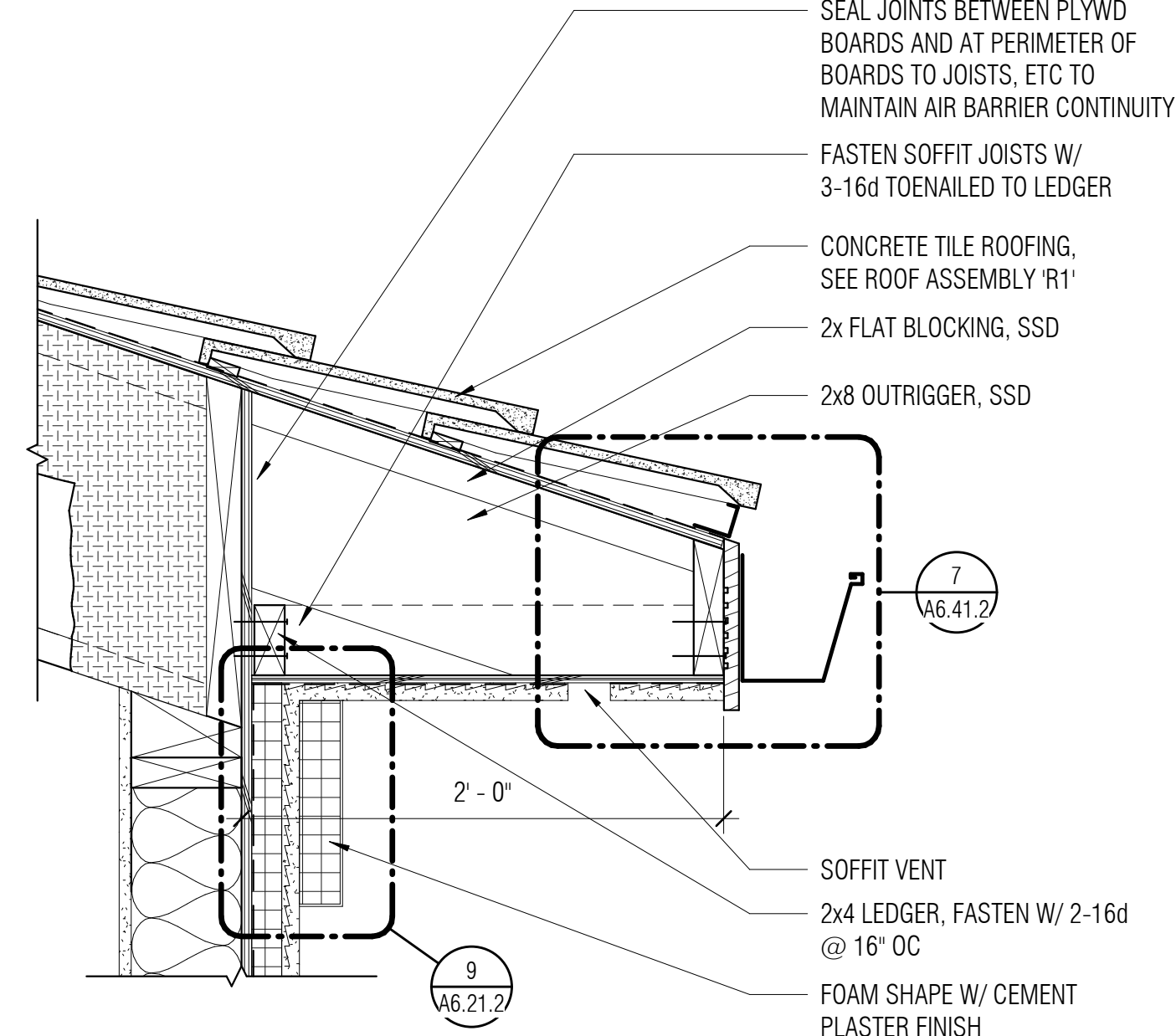
| ISSUE DATE | DESCRIPTION |
|---------------|-----------------------|
| 5/30/2019 | ISSUE DATE |
| 21630 | NOLL & TAM JOB NUMBER |
| 7/28/20 | DATE |
| INC 2 RFI 117 | DESCRIPTION |

SHEET TITLE

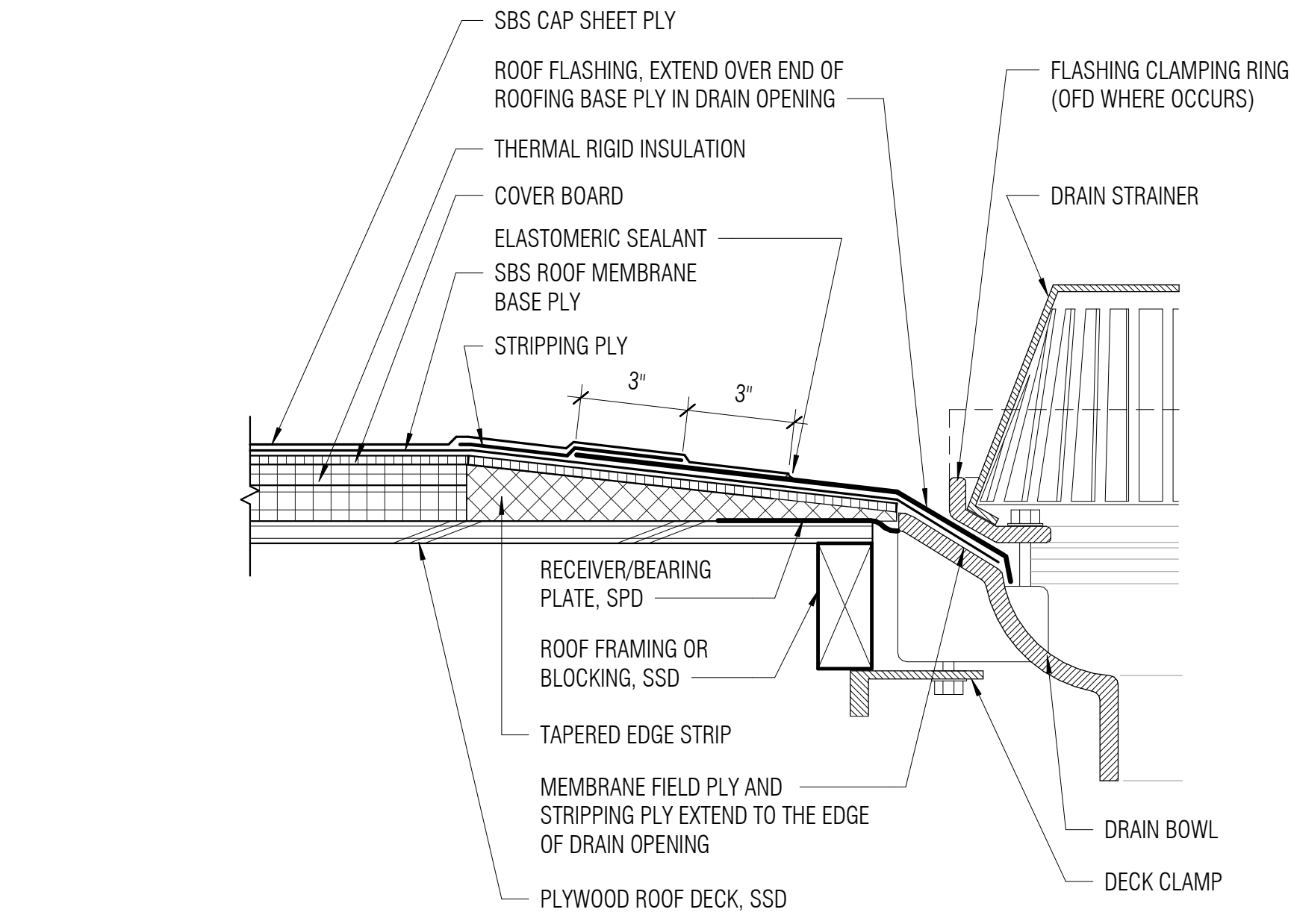
EXTERIOR SUN CONTROL DEVICES

SHEET NUMBER

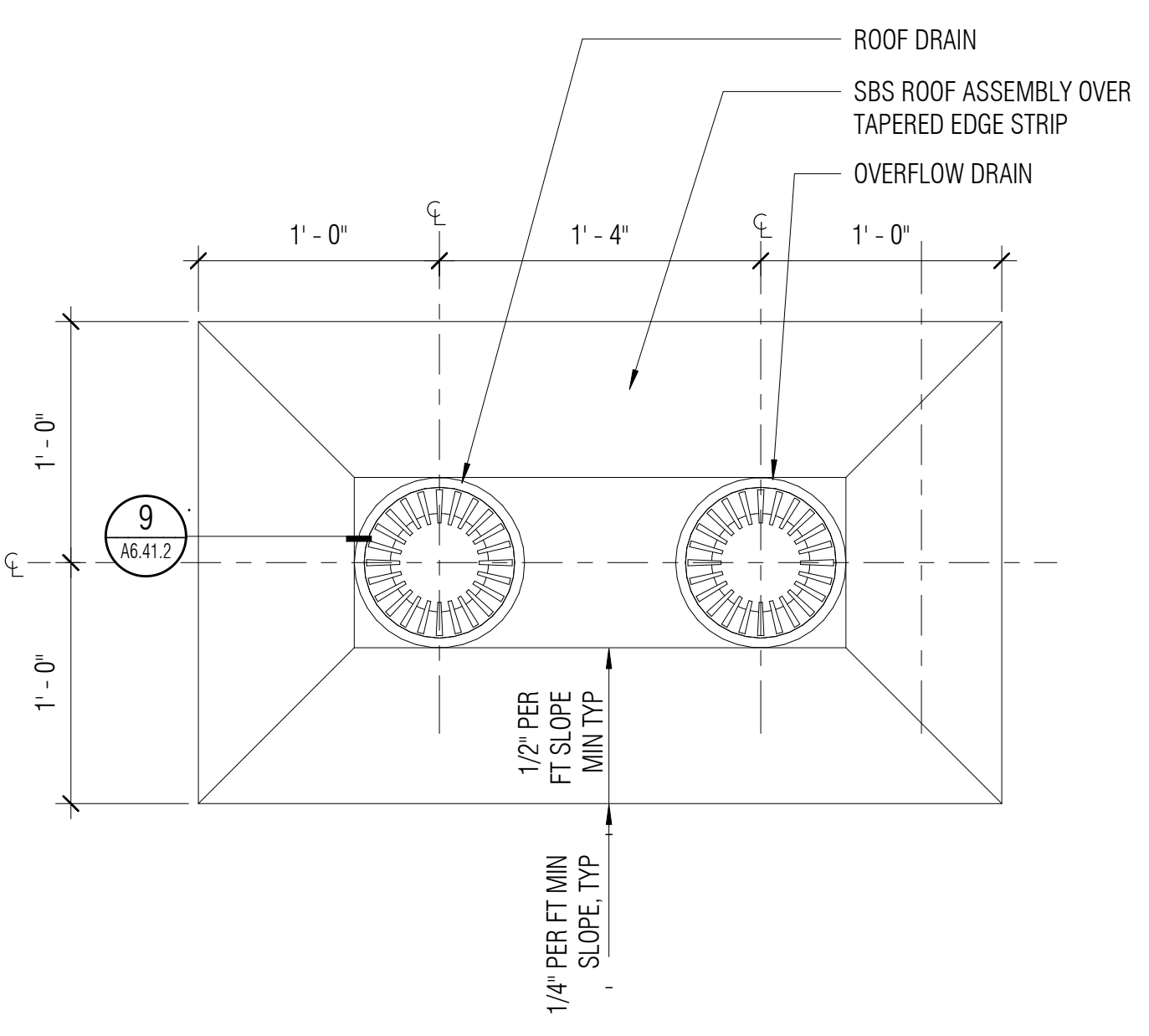
A6.22.2



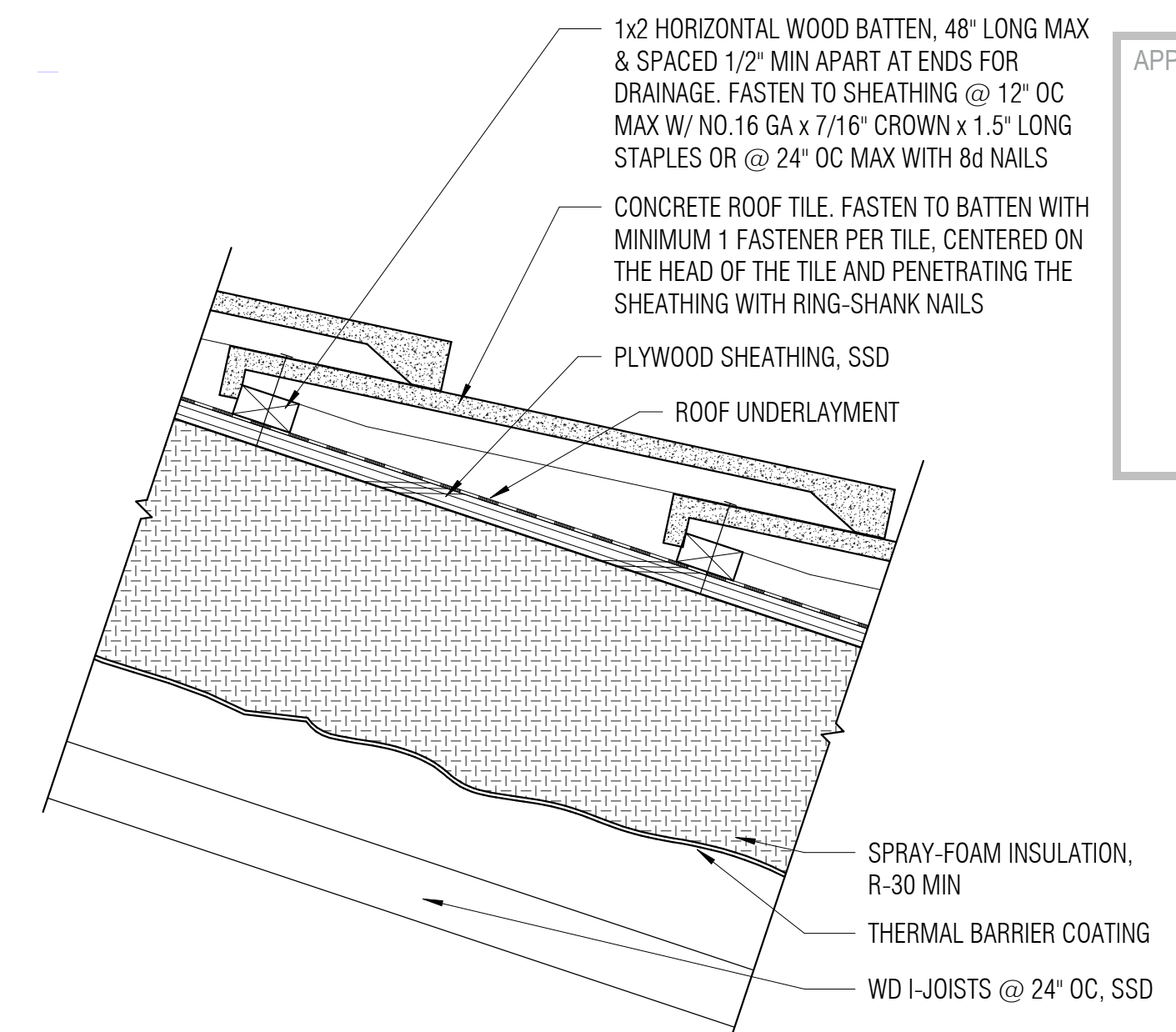
13 LLRC EAVE DETAIL
1 1/2" = 1'-0"



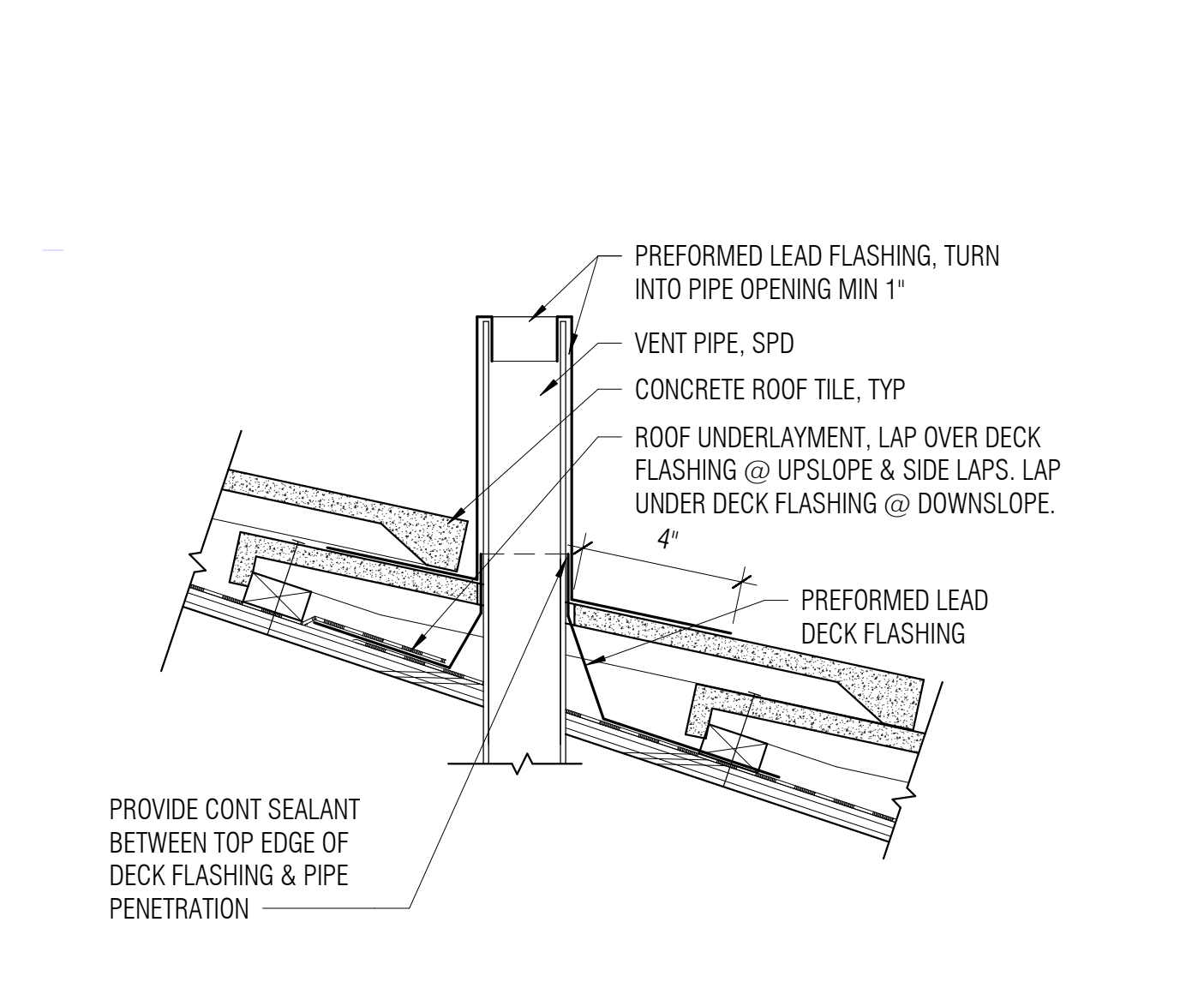
9 ROOF DRAIN @ SBS ROOFING AND WOOD DECK
3" = 1'-0"



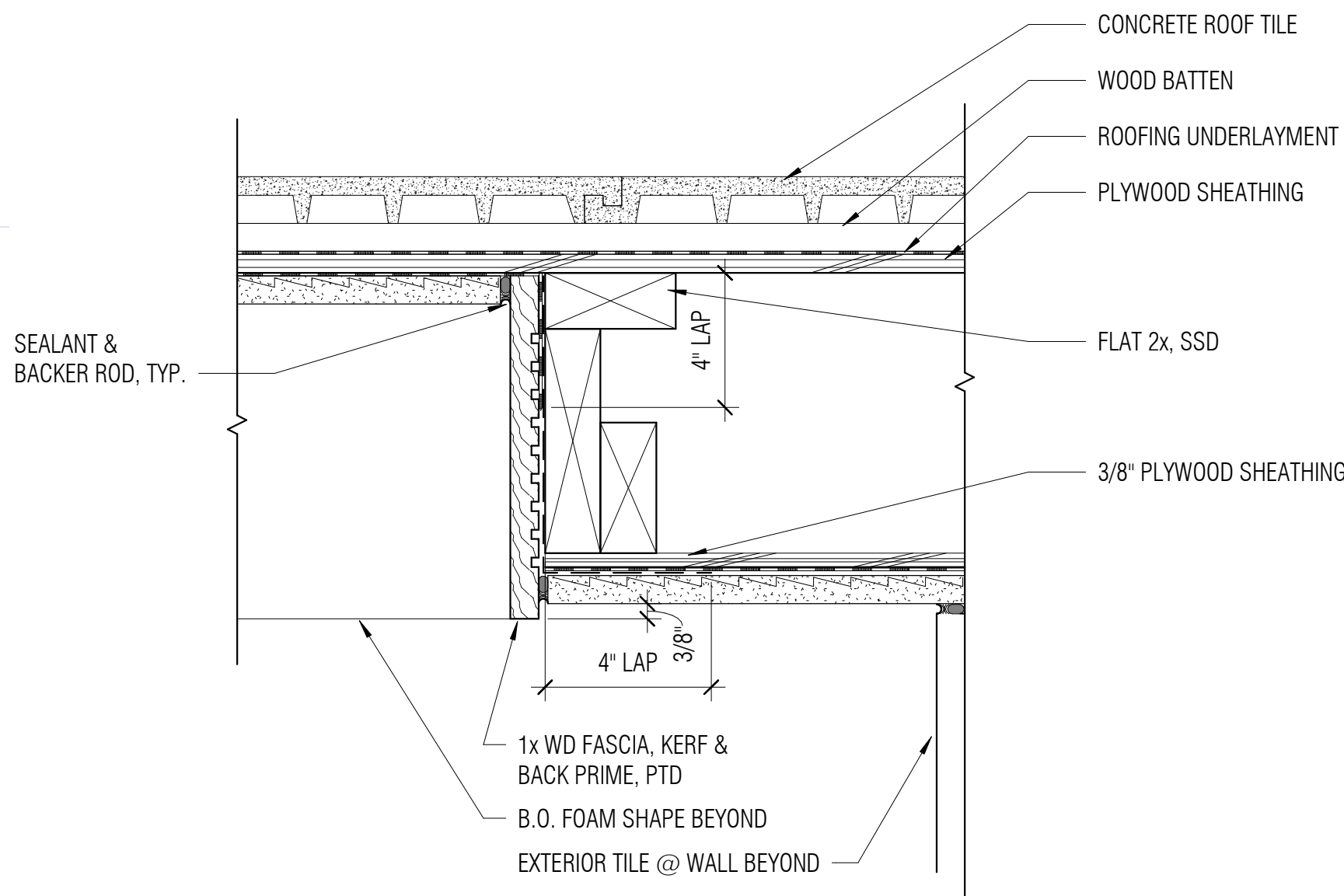
5 ROOF DRAIN / OVERFLOW PLAN (SMALL DRAINS)
1 1/2" = 1'-0"



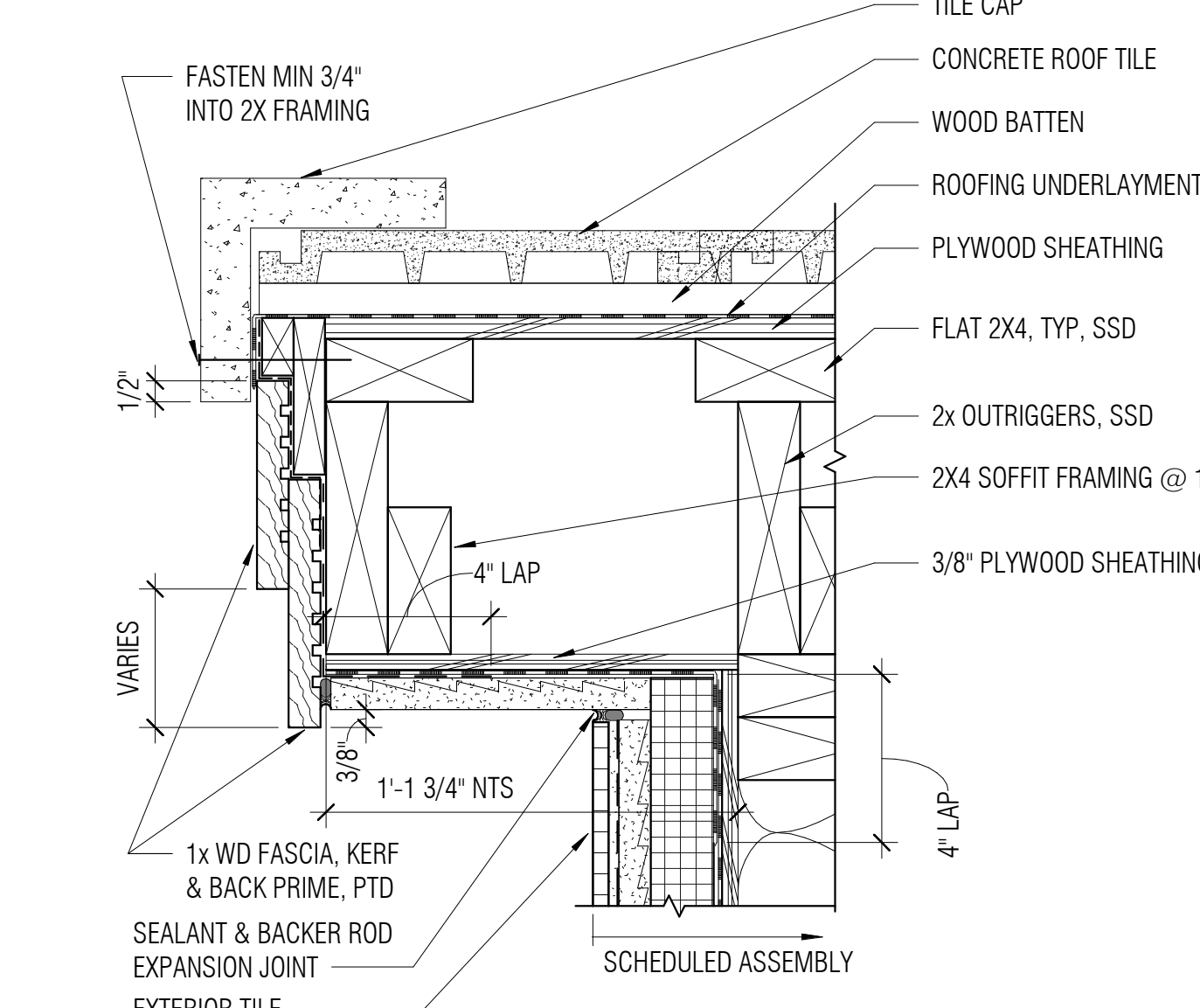
1 CONCRETE TILE ROOFING @ NEW LLRC, ASSEMBLY R1
3" = 1'-0"



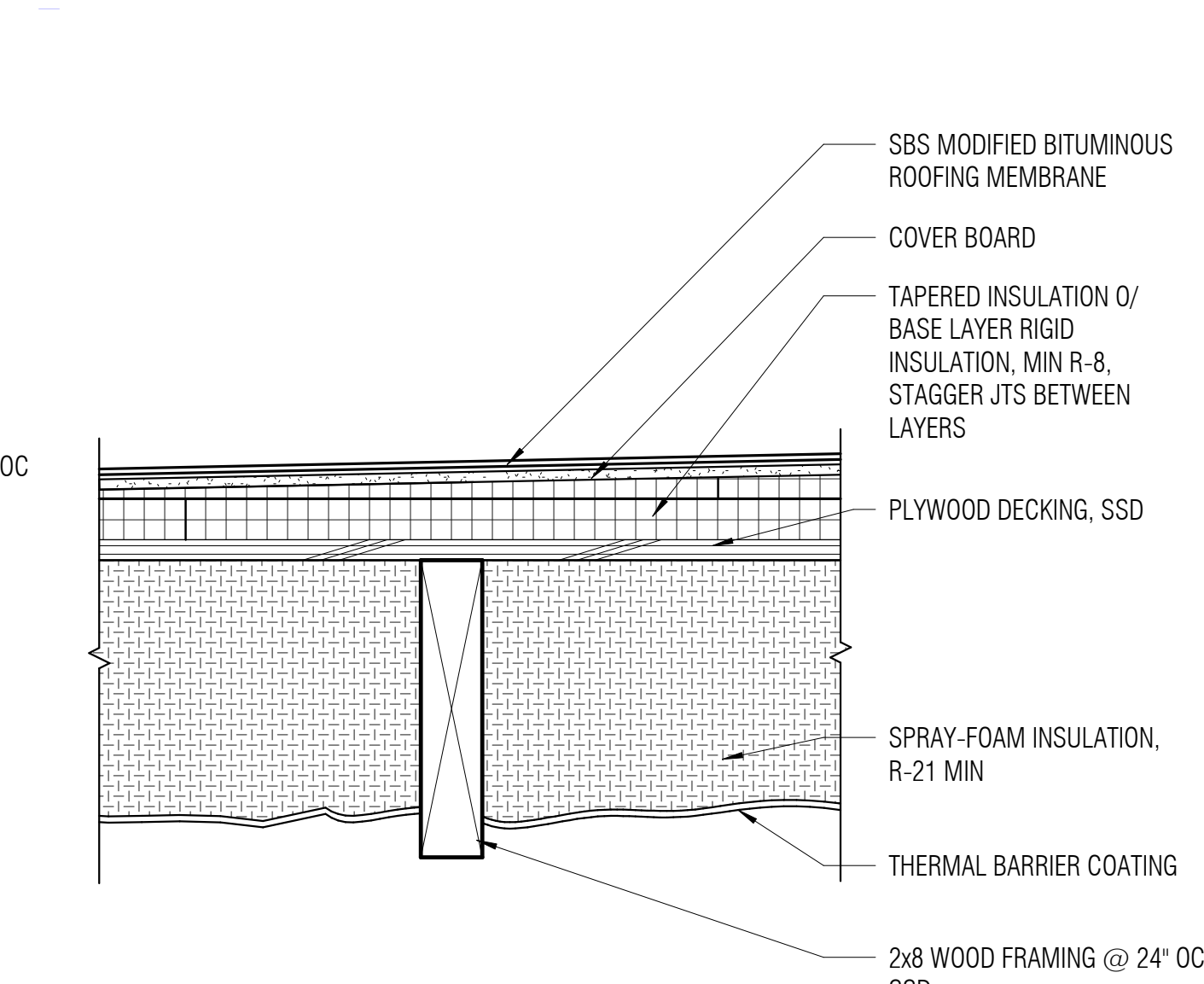
14 PIPE PENETRATION @ CONCRETE TILE ROOFING
3" = 1'-0"



10 EAVE @ TILE ROOF RAKE AT SOFFITS
3" = 1'-0"



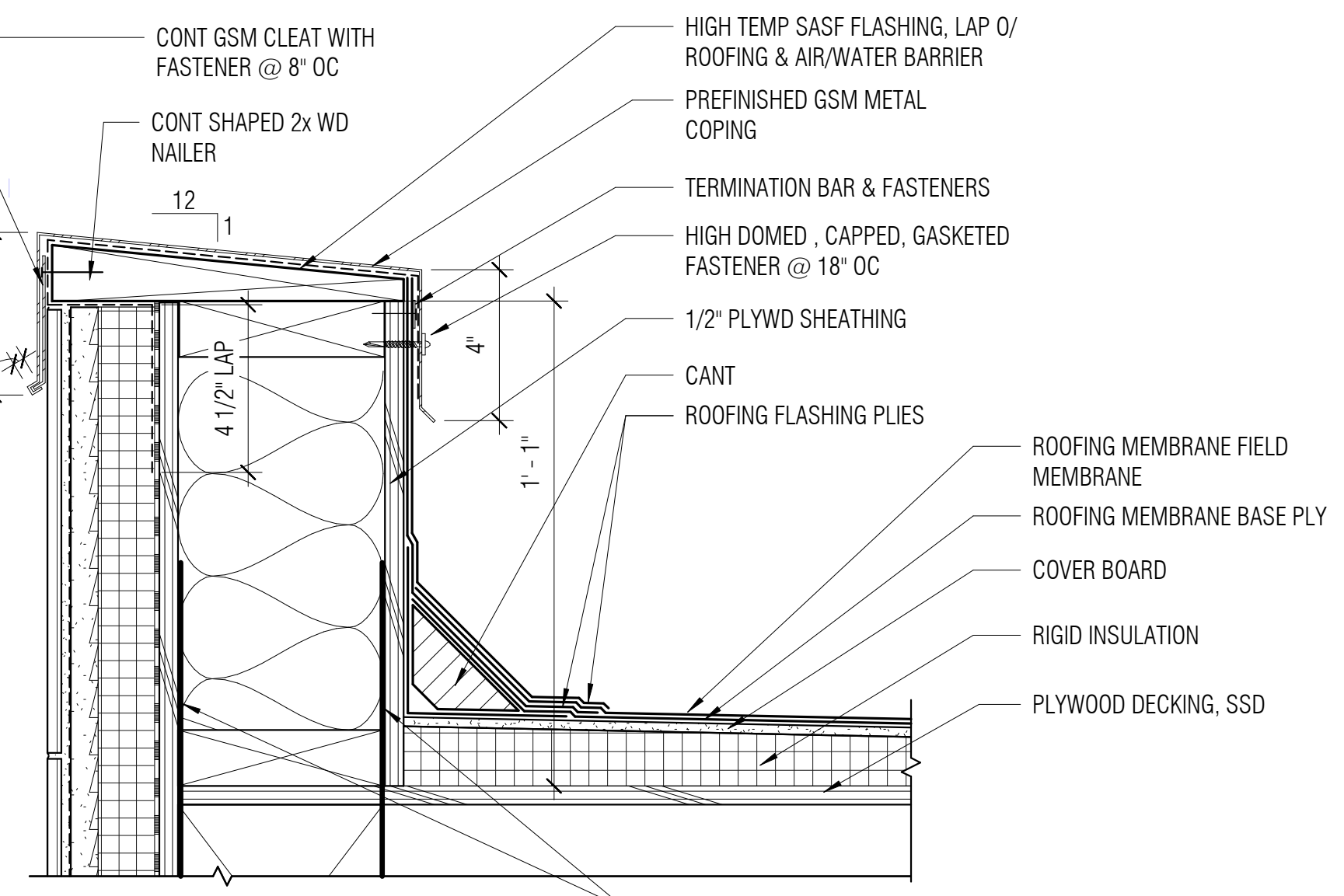
6 EAVE @ TILE ROOF RAKE AT LOWER SOFFIT
3" = 1'-0"



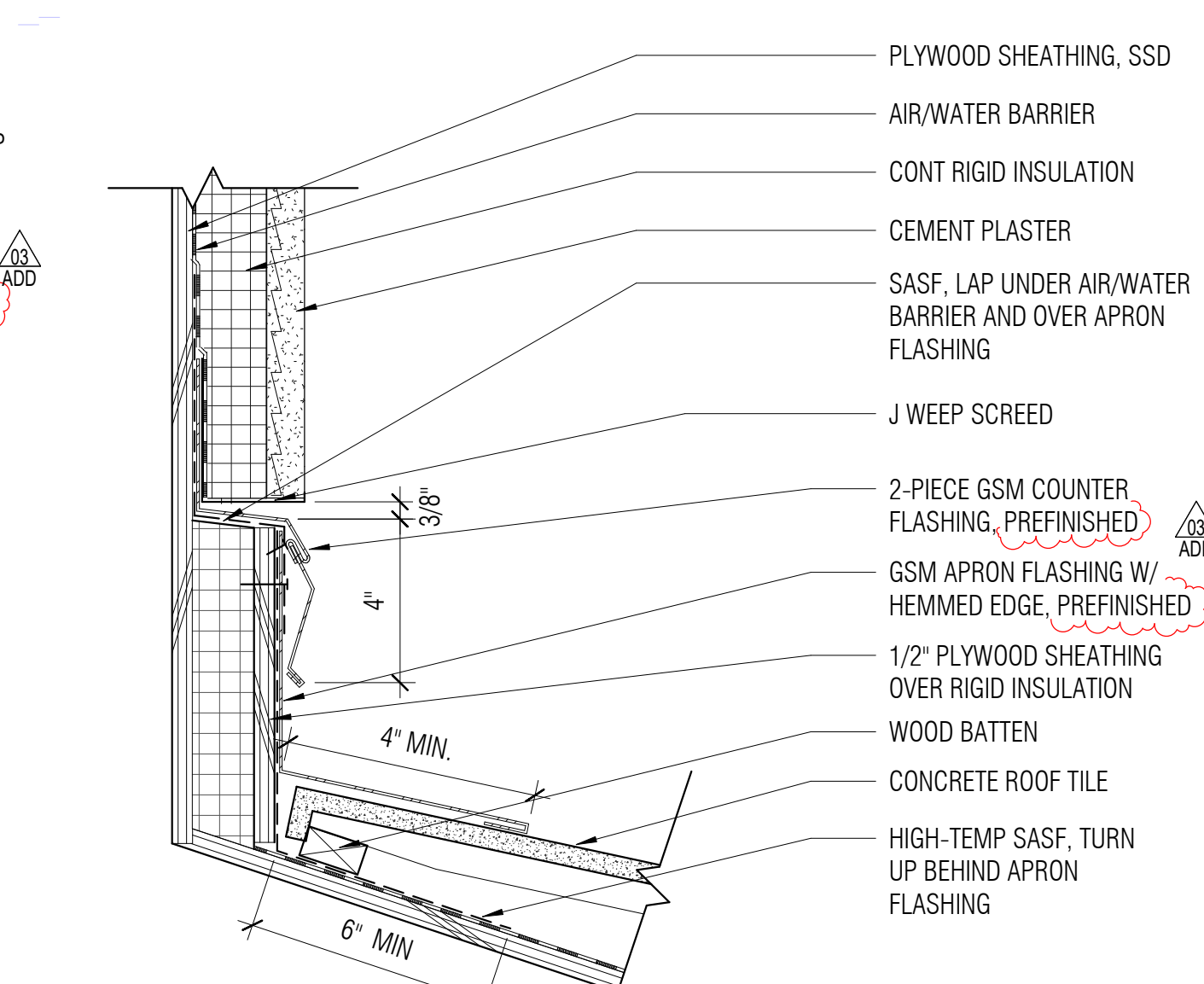
2 SBS ROOFING @ NEW LLRC, ASSEMBLY R2
3" = 1'-0"



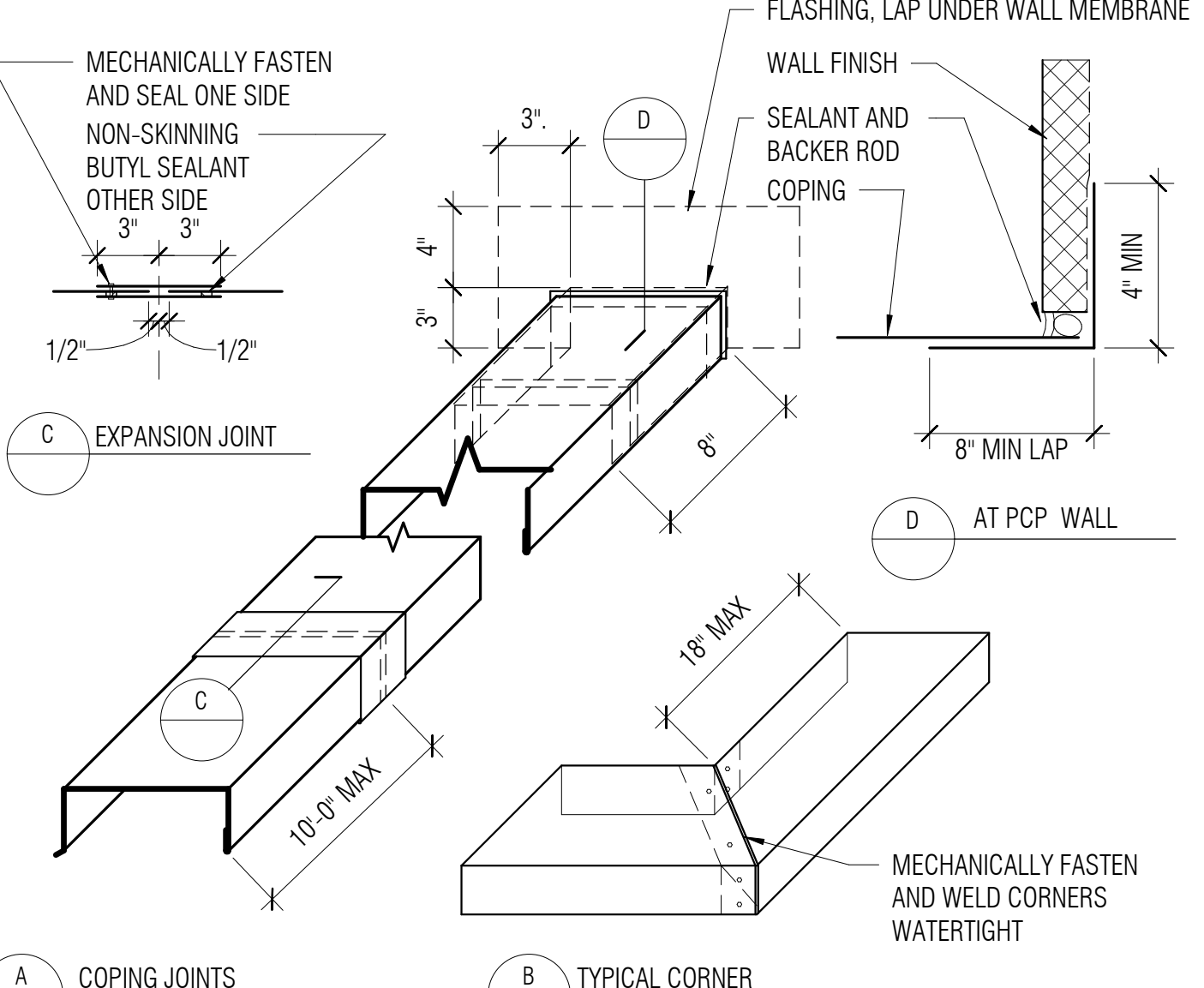
11 ROOF EDGE @ LLRC ENTRANCE
3" = 1'-0"



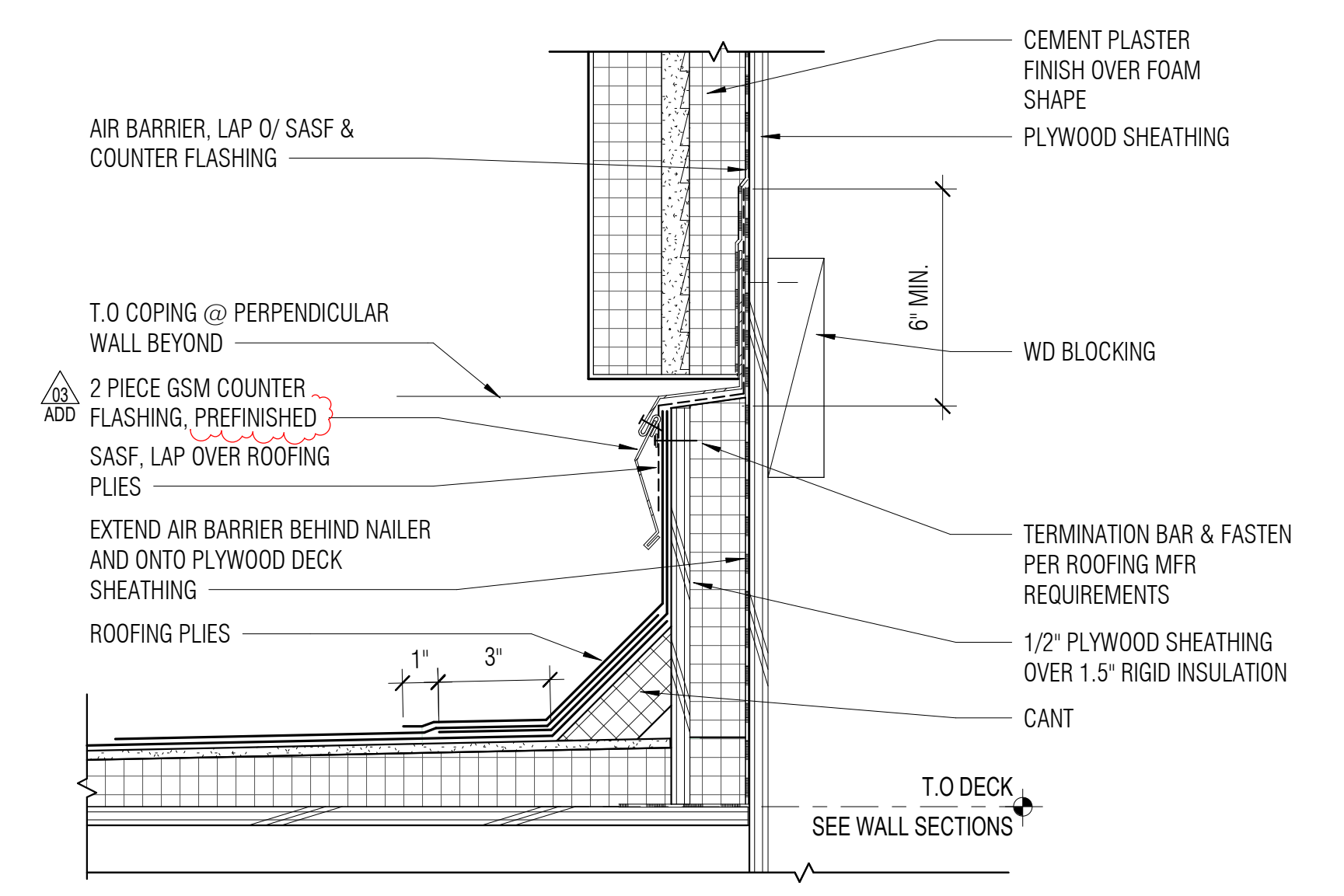
7 GUTTER FLASHING @ TILE ROOF
3" = 1'-0"



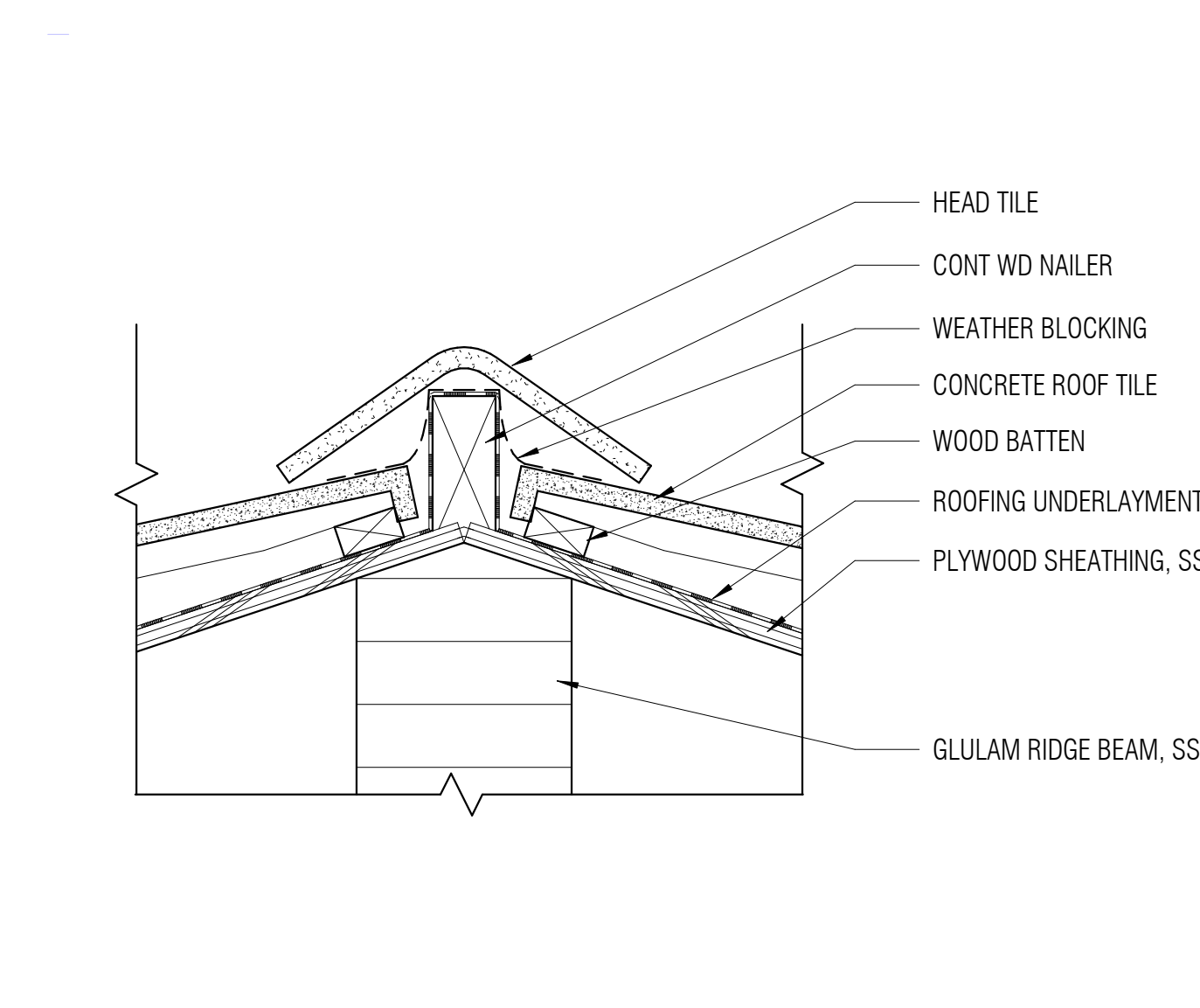
3 HEADWALL FLASHING @ TILE ROOF
3" = 1'-0"



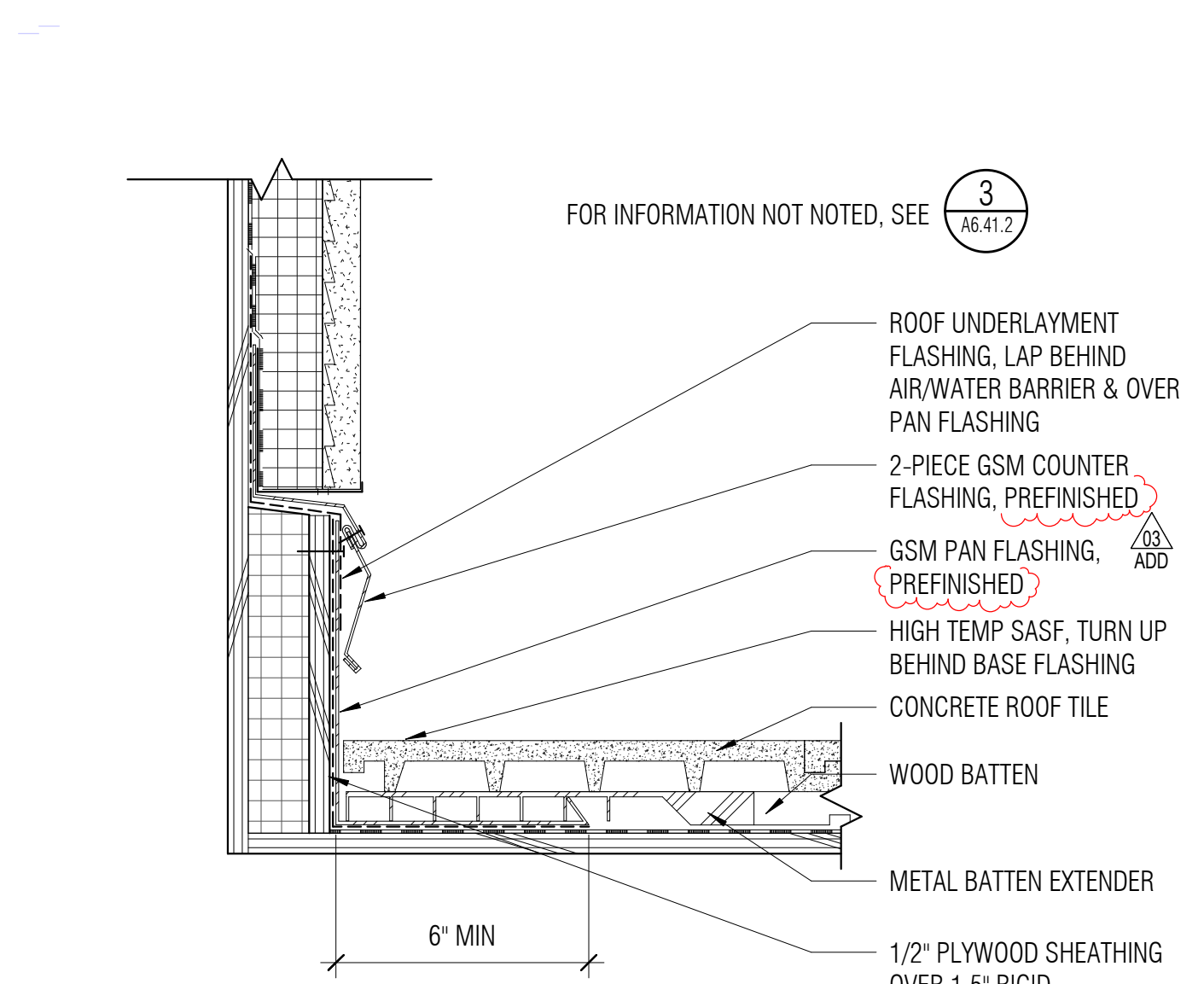
16 TYPICAL COPING DETAILS
1 1/2" = 1'-0"



12 WALL TO ROOF @ LLRC ENTRANCE
3" = 1'-0"



8 RIDGE FLASHING @ TILE ROOF (HIP SIM.)
3" = 1'-0"



4 SIDEWALL FLASHING @ TILE ROOF
3" = 1'-0"

APPROVALS

NOLL & TAM ARCHITECTS

729 Heinz Avenue
Berkeley, CA 94710
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fax 510.542.2201

ARCHITECTS SEAL

LEARNED ARCHITECT

CHRISTOPHER NOLL
No. C15916
REN. 12-31-21
STATE OF CALIFORNIA

PROJECT TITLE

**CONTRA COSTA
CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION &
RENOVATION**

1690 Watermill Rd.
San Ramon, CA 94582

RECORD SET:

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ISSUE TITLE

INCREMENT 2

ISSUE DATE: 5/30/2019

NOLL & TAM JOB NUMBER: 21630

REVISIONS

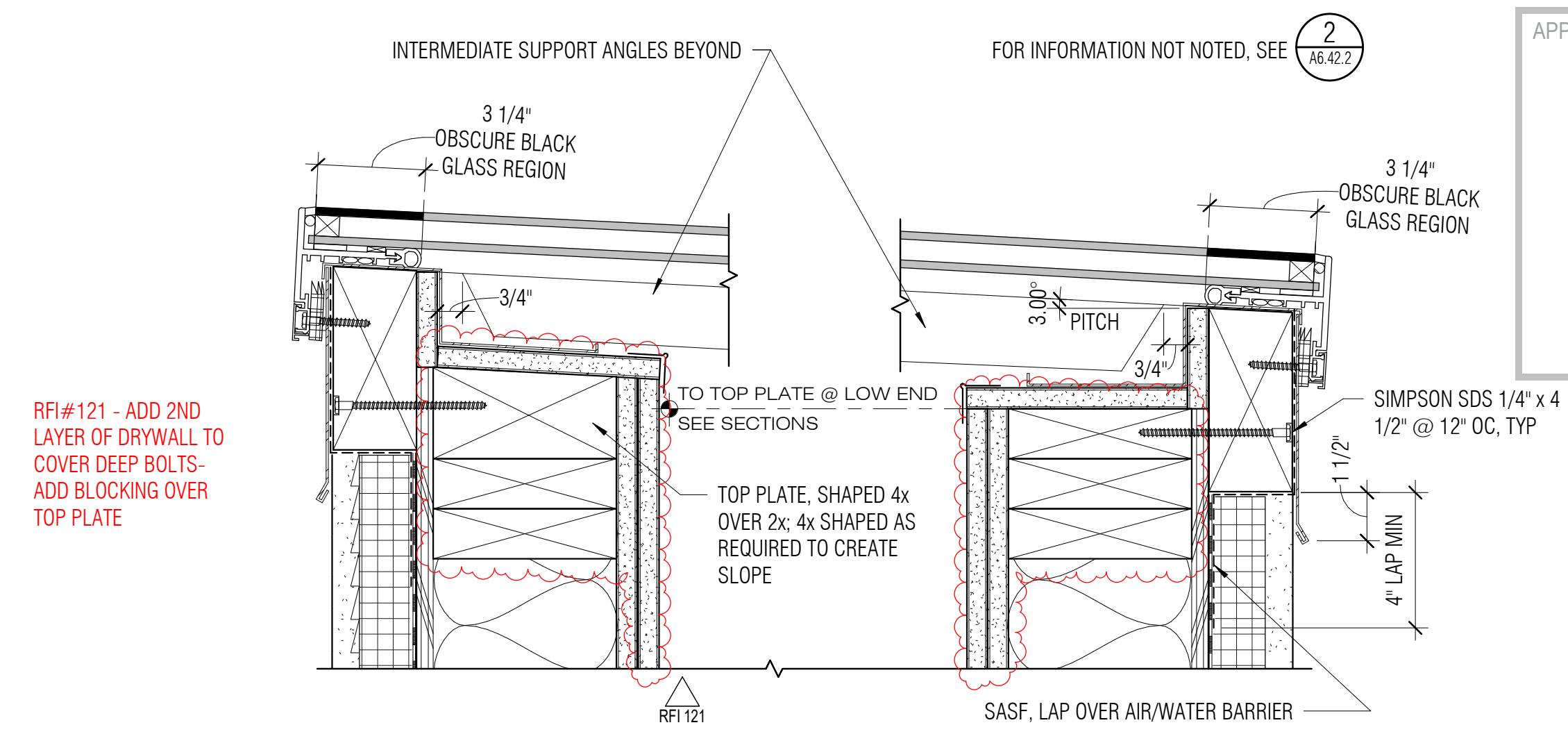
| DATE | DESCRIPTION |
|---------|---------------------|
| 8/27/19 | INC 2 - ADDENDUM 03 |

SHEET TITLE

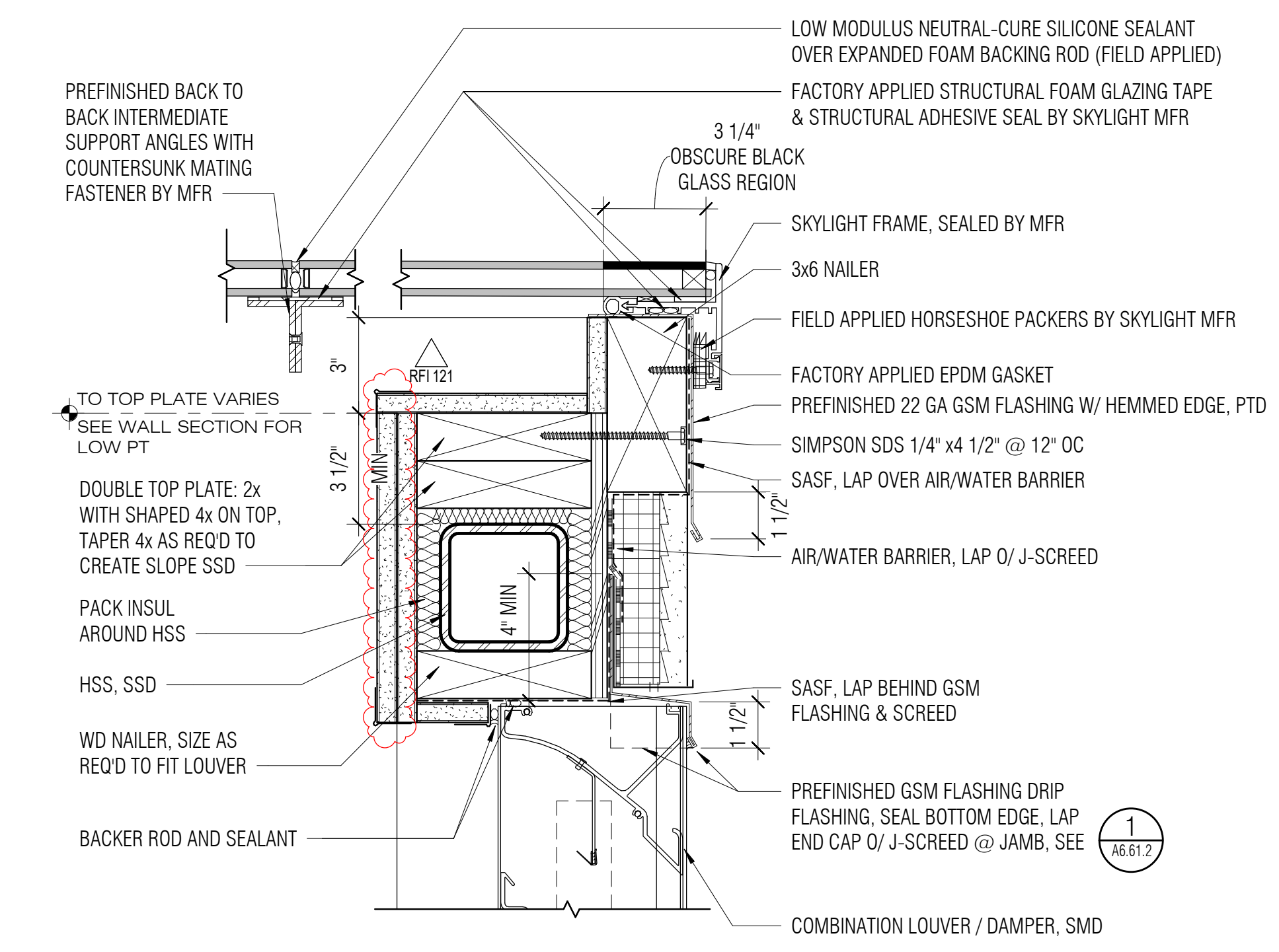
EXTERIOR ROOF ASSEMBLIES & DETAILS

SHEET NUMBER

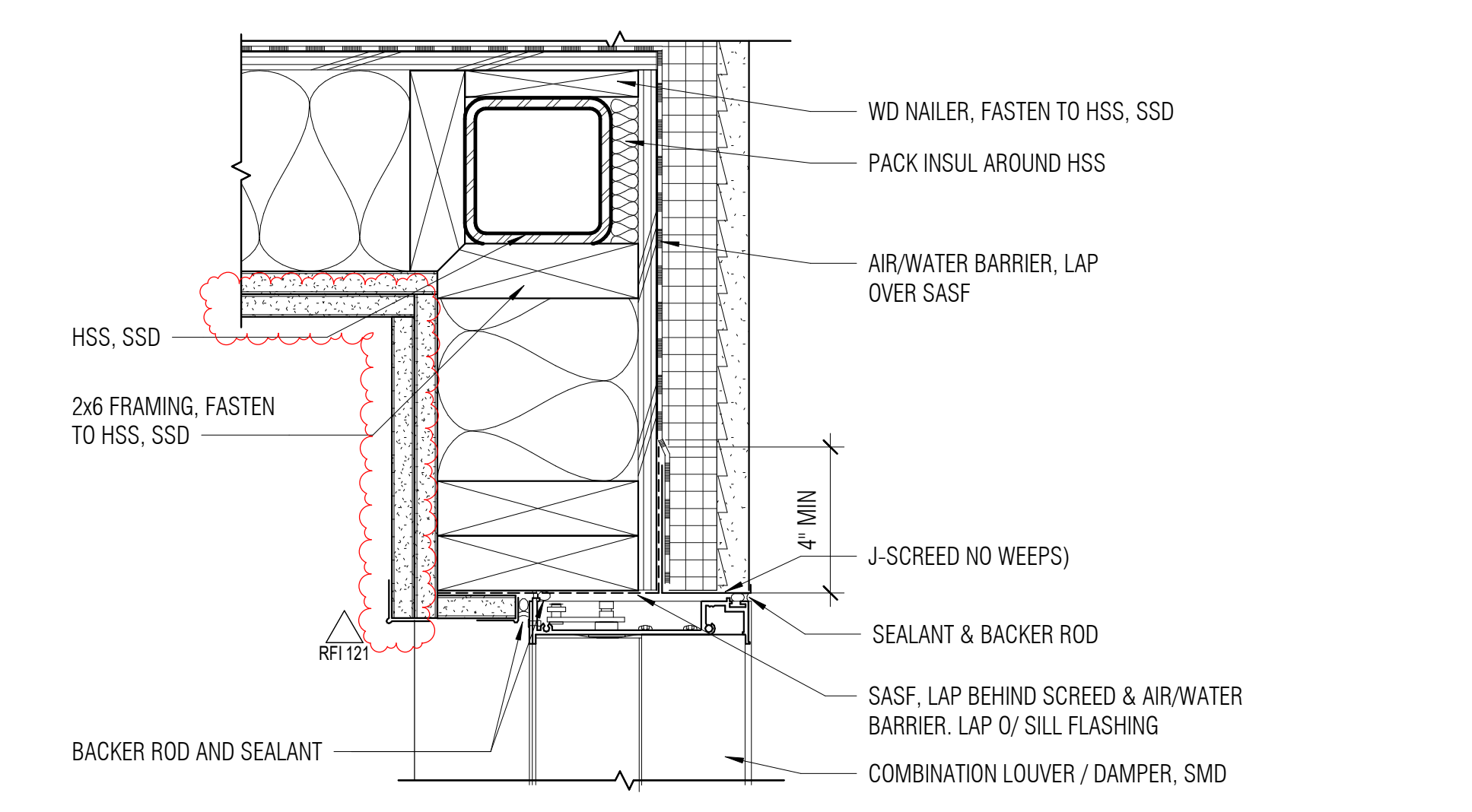
A6.41.2



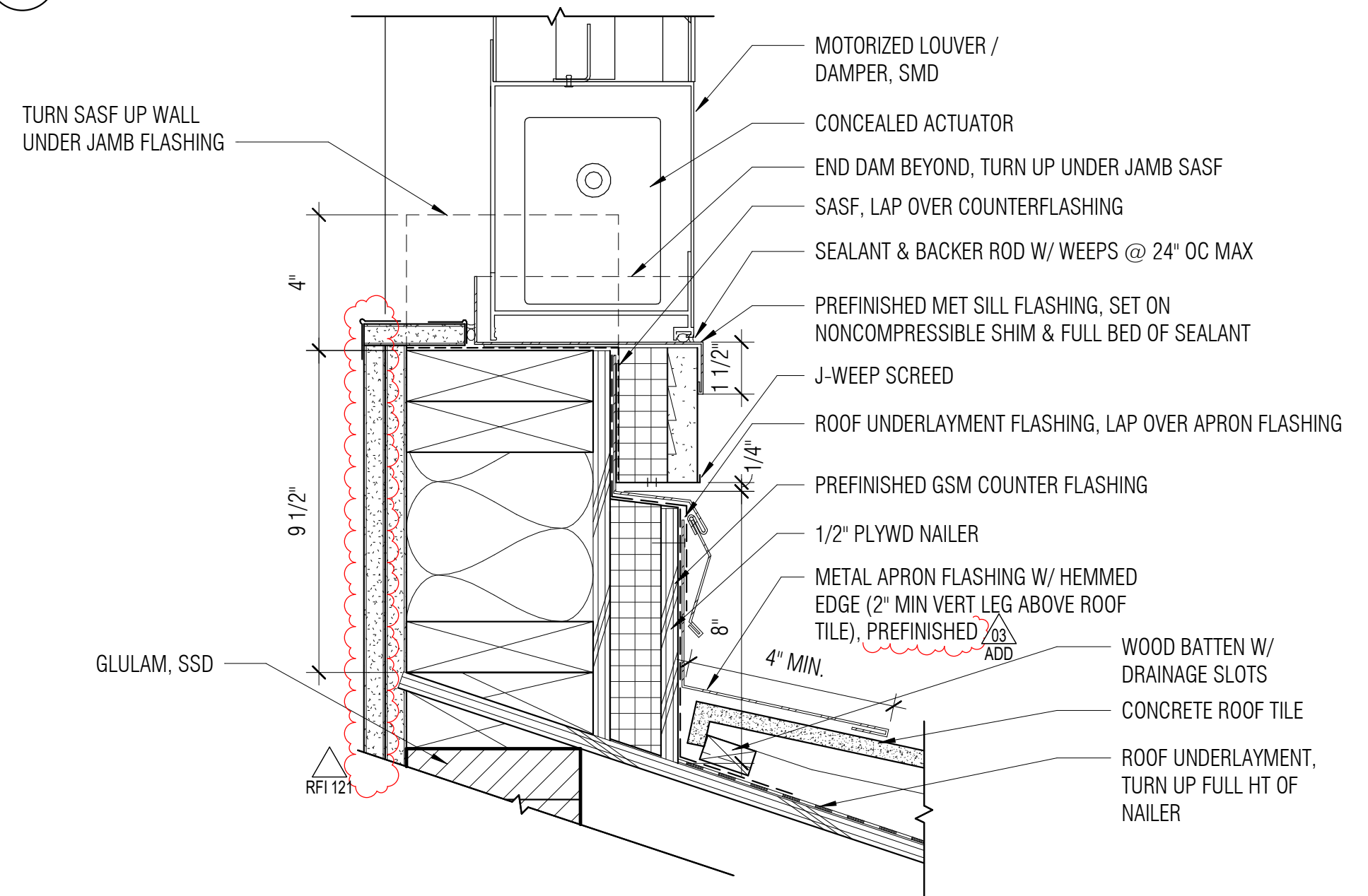
1 SKYLIGHT CURB - CROSS SECTION
3" = 1'-0"



2 SKYLIGHT CURB & LOUVER HEAD
3" = 1'-0"



3 LOUVER JAMB
3" = 1'-0"



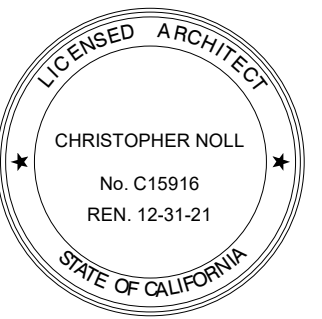
4 LOUVER FLASHING @ TILE ROOF
3" = 1'-0"

APPROVALS

NOLL & TAM ARCHITECTS

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ARCHITECTS SEAL



PROJECT TITLE

CONTRA COSTA CCD D-4002 DVC SAN RAMON CAMPUS EXPANSION & RENOVATION

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ISSUE TITLE

INCREMENT 2

ISSUE DATE 5/30/2019

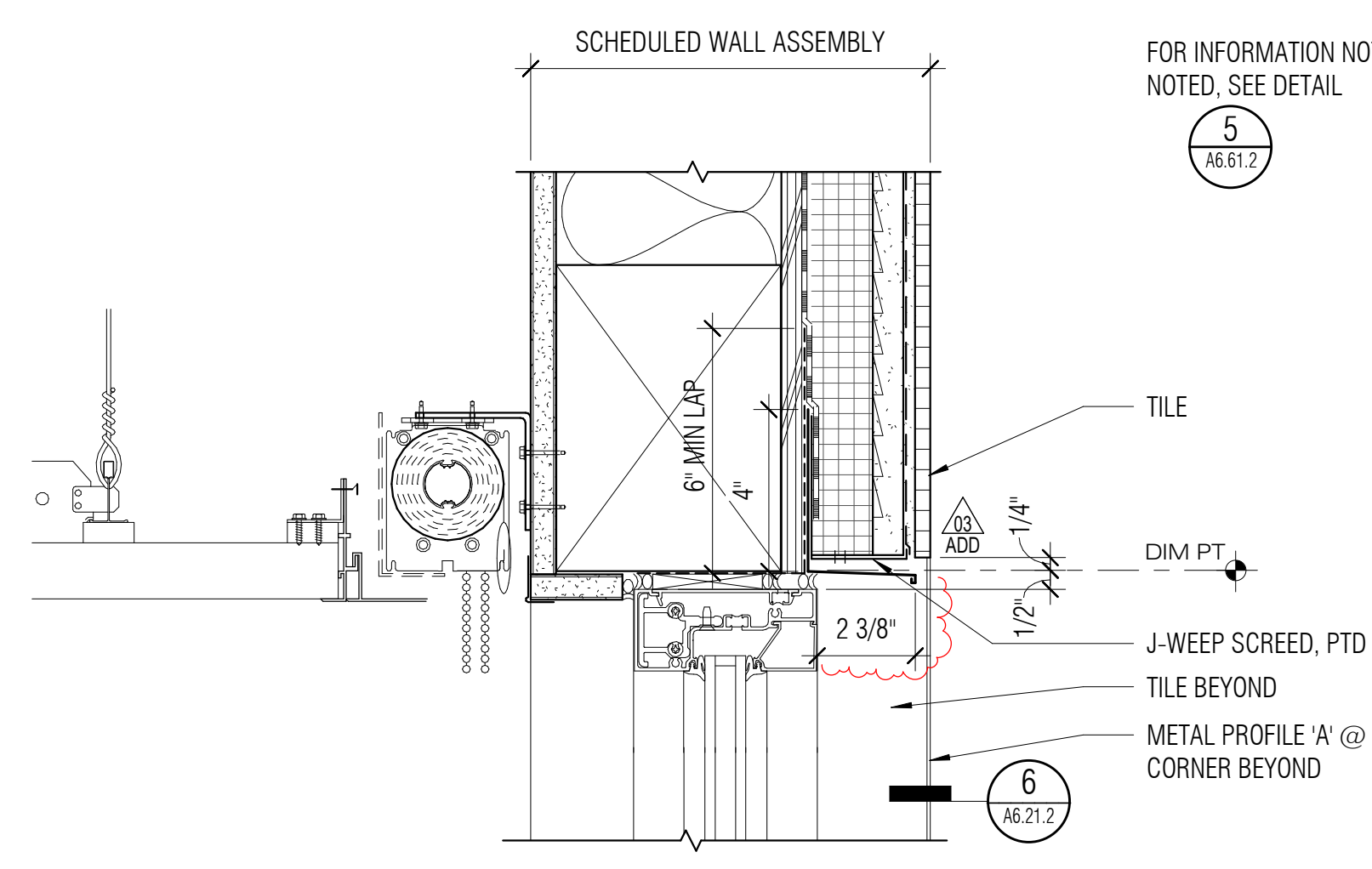
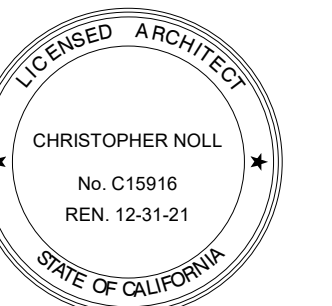
NOLL & TAM JOB NUMBER 21630

| REVISIONS | DATE | DESCRIPTION |
|-----------|---------------------|-------------|
| 8/27/19 | INC 2 - ADDENDUM 03 | |
| 8/28/20 | INC 2 RFI 121 | |

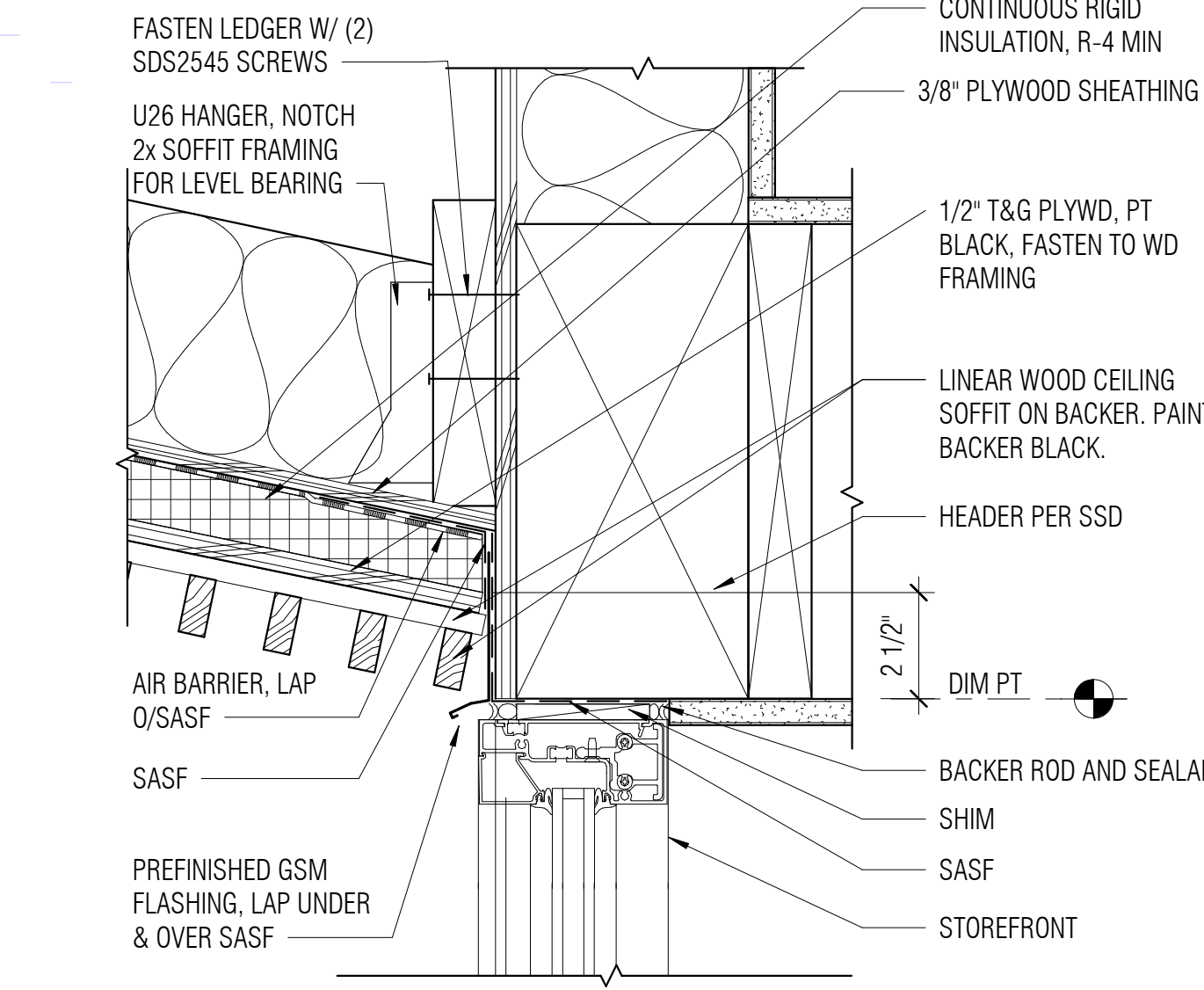
SHEET TITLE
EXTERIOR ROOF & SKYLIGHT DETAILS

SHEET NUMBER

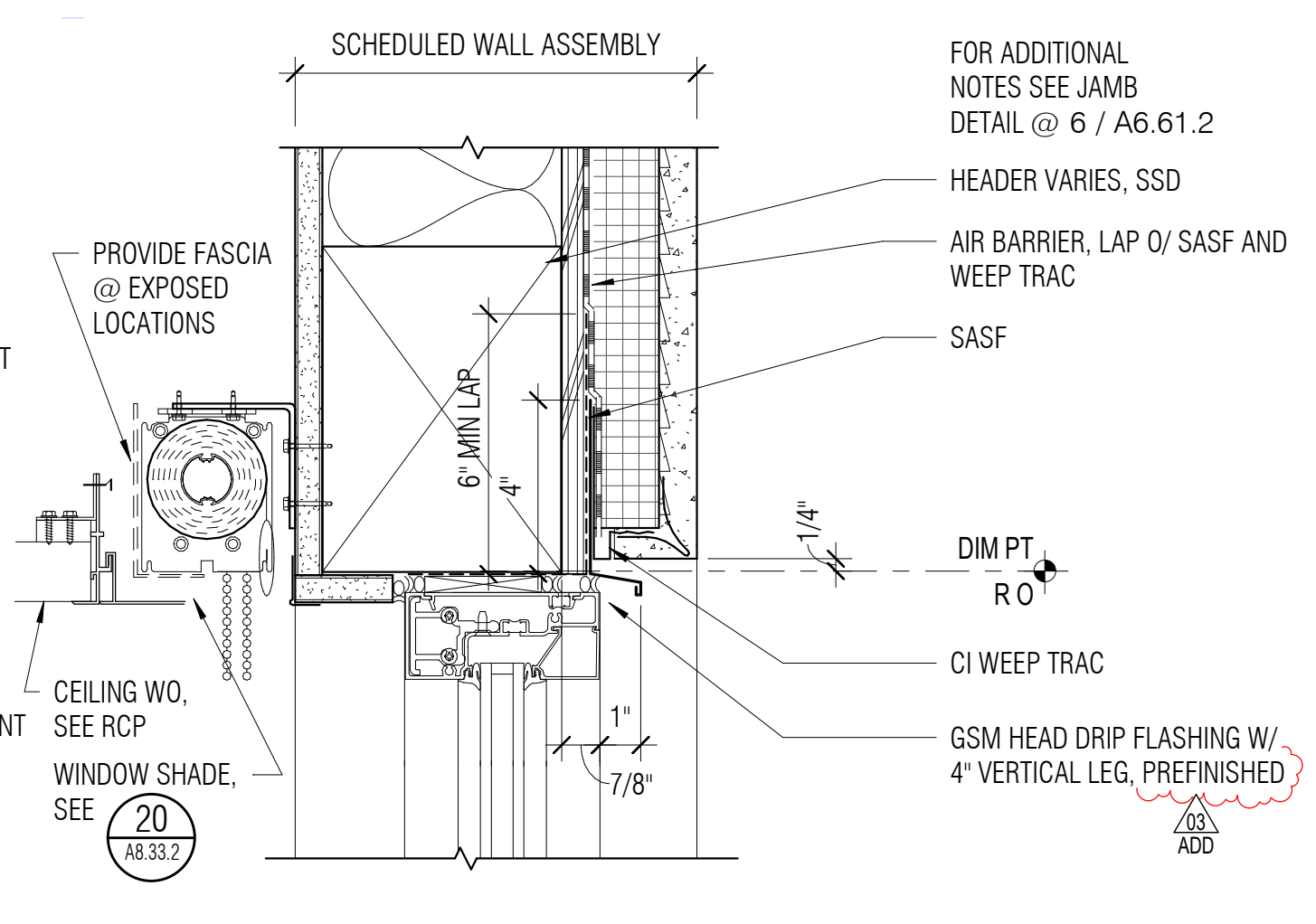
A6.42.2



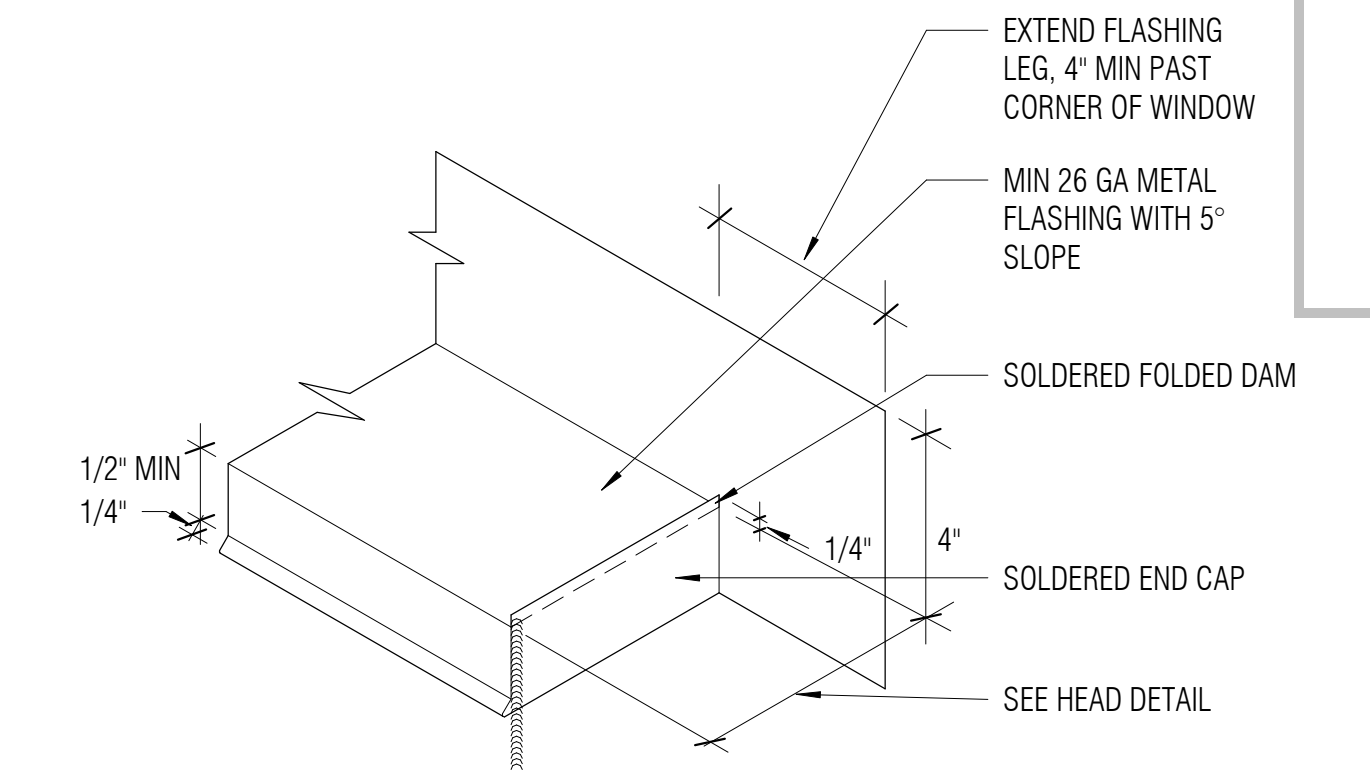
5 STOREFRONT HEAD @ TILE
A6.61.2 3' = 1'-0"



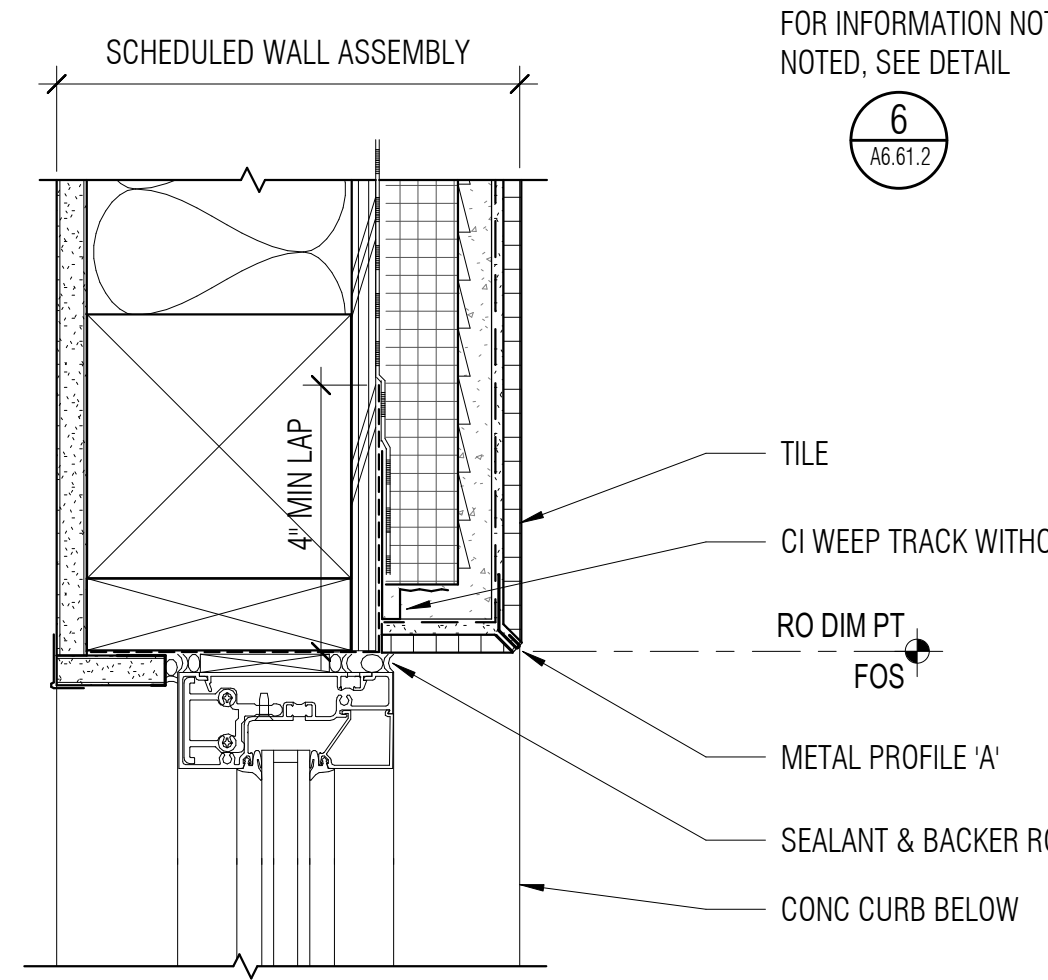
9 STOREFRONT HEAD @ LLRC ENTRANCE
A6.61.2 3' = 1'-0"



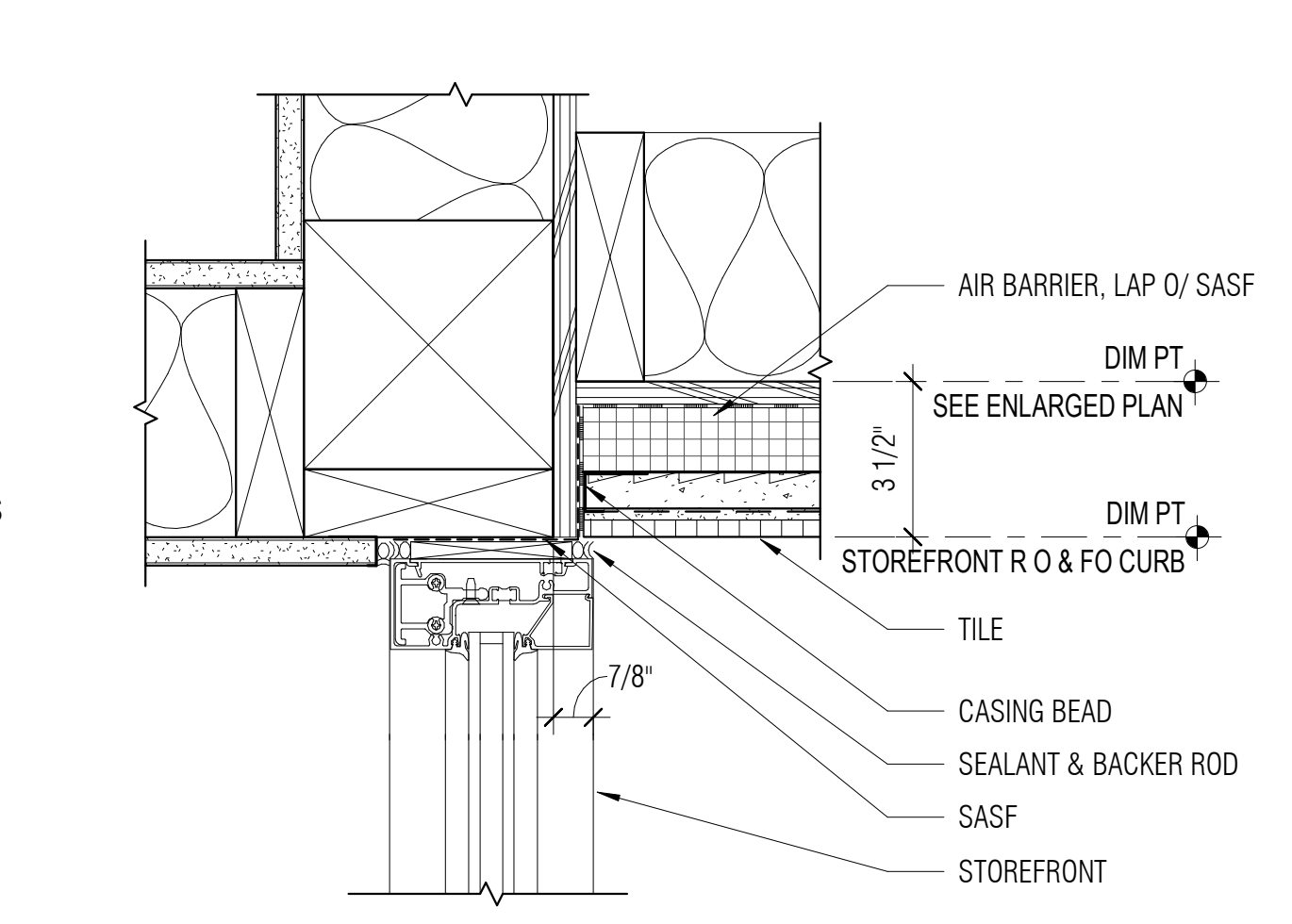
6 STOREFRONT HEAD @ CEMENT PLASTER
A6.61.2 3' = 1'-0"



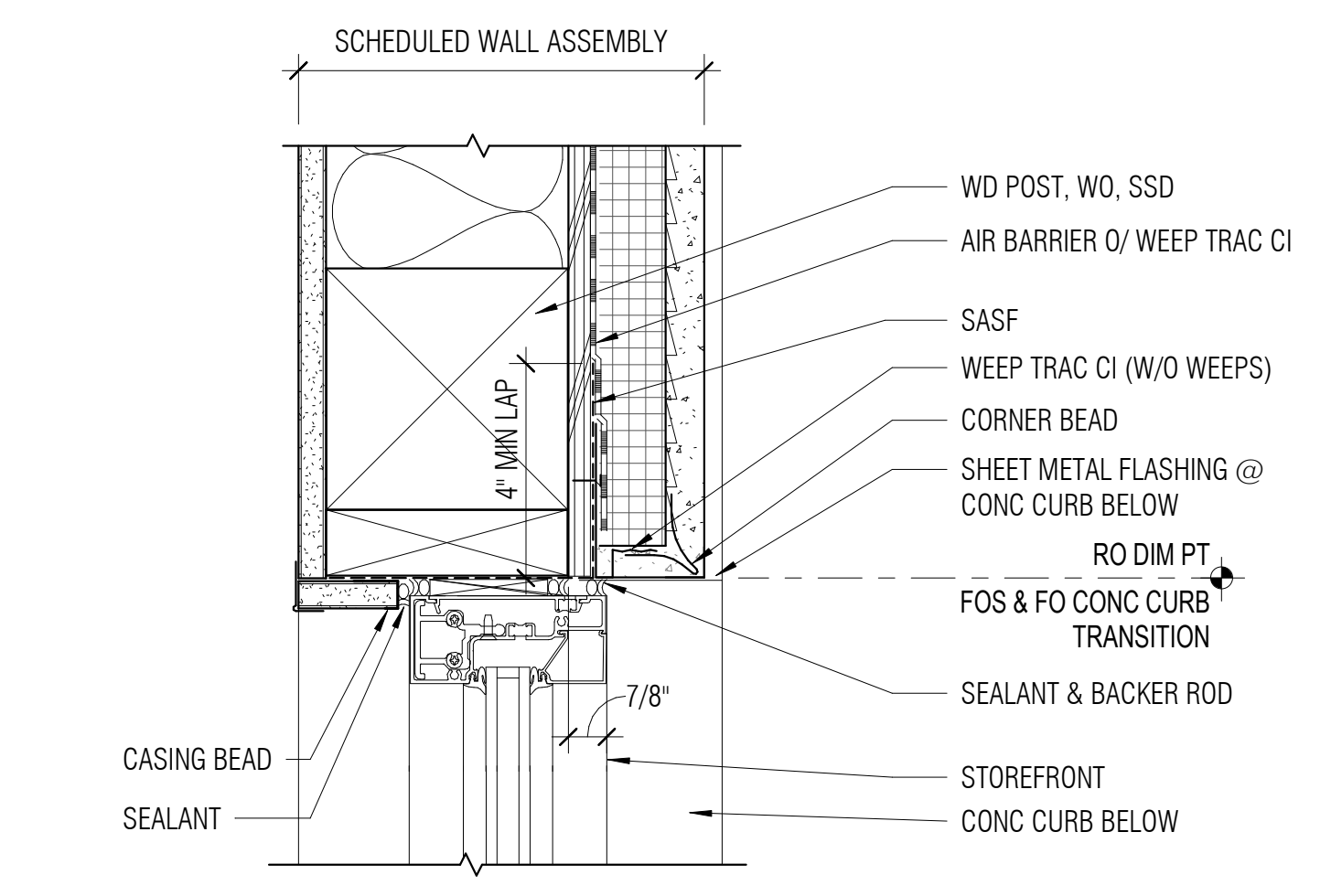
1 SHEET METAL HEAD FLASHING
A6.61.2 3' = 1'-0"



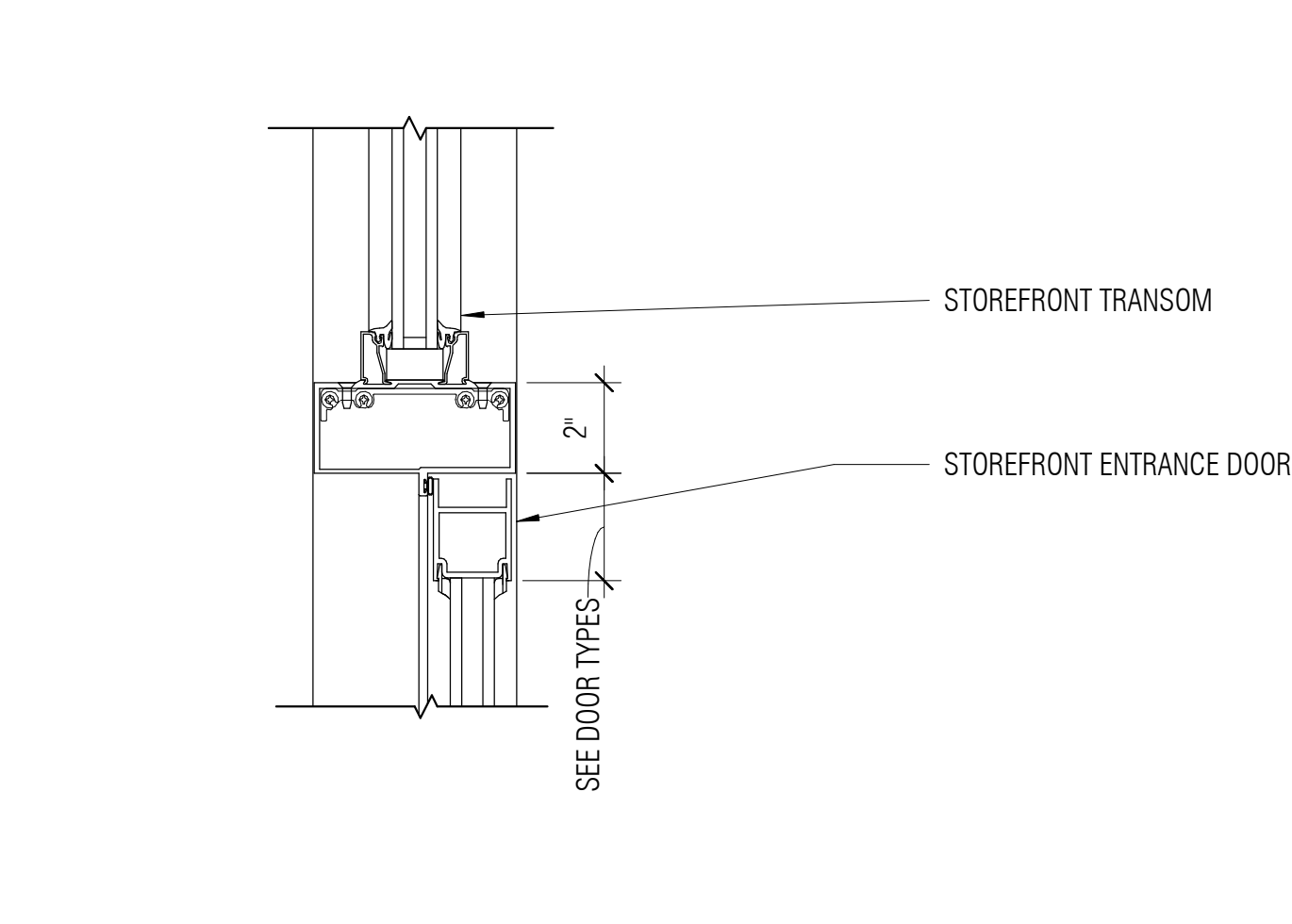
13 STOREFRONT JAMB @ TILE
A6.61.2 3' = 1'-0"



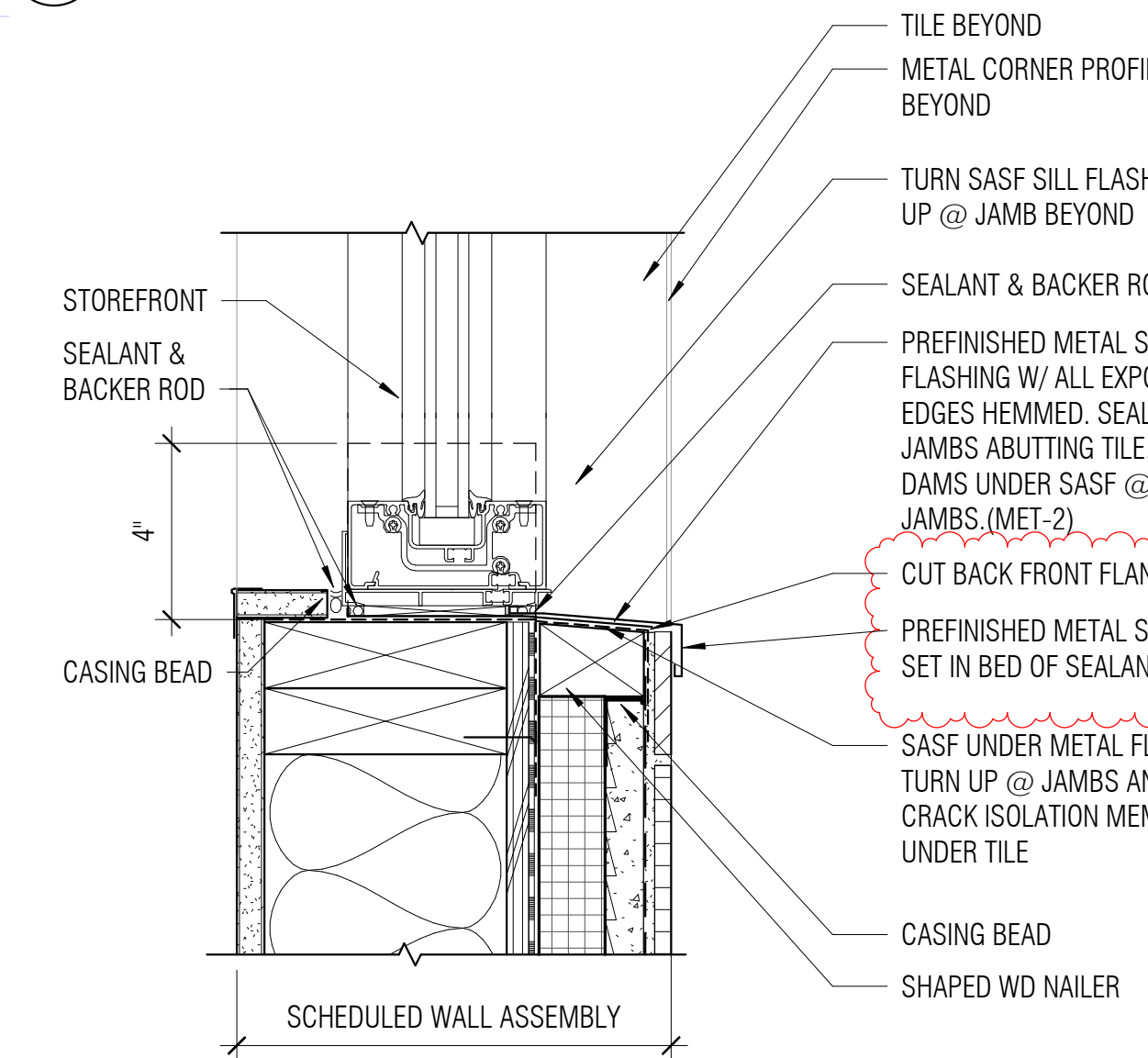
10 STOREFRONT JAMB @ LLRC ENTRANCE
A6.61.2 3' = 1'-0"



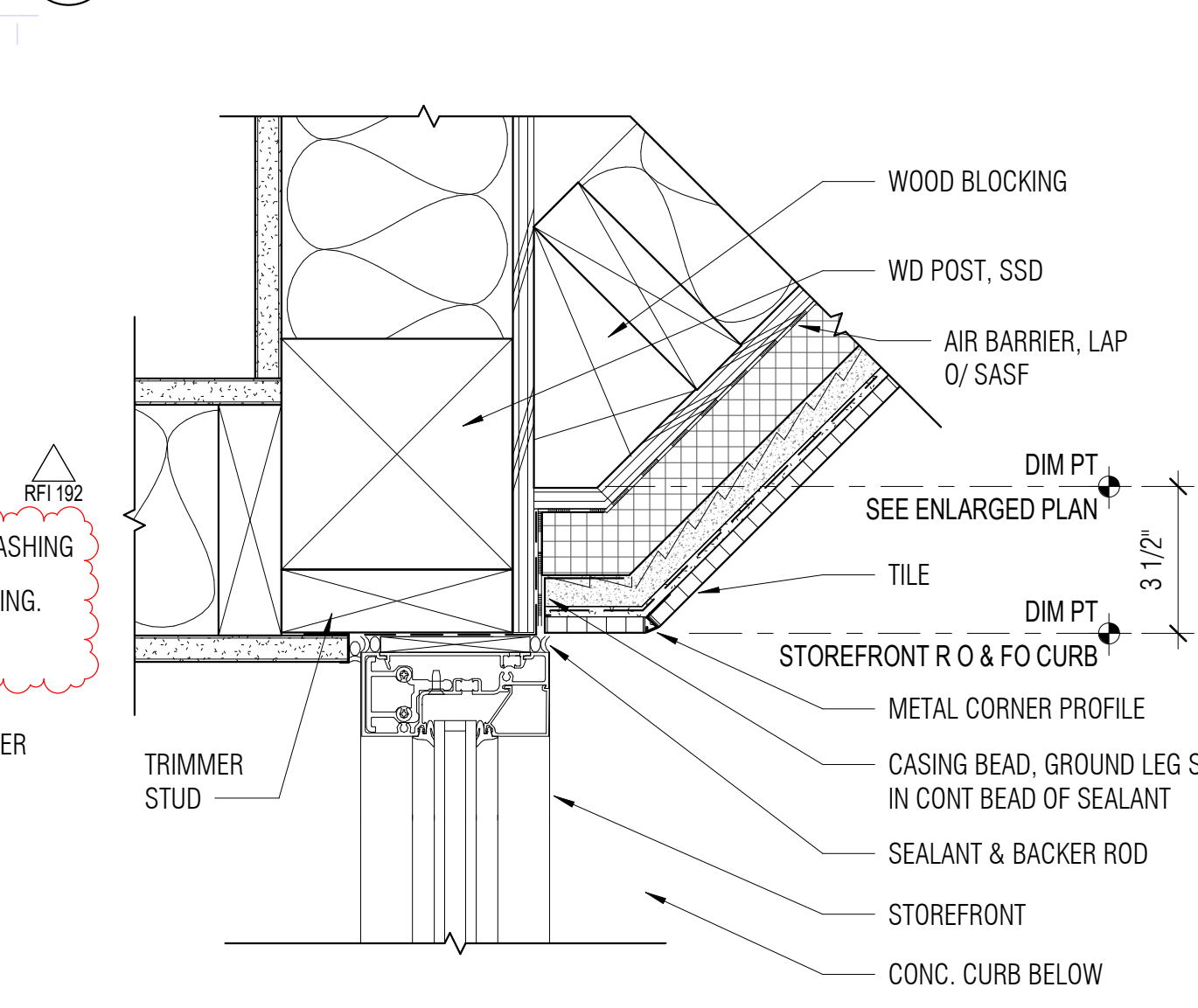
8 STOREFRONT JAMB @ CEMENT PLASTER
A6.61.2 3' = 1'-0"



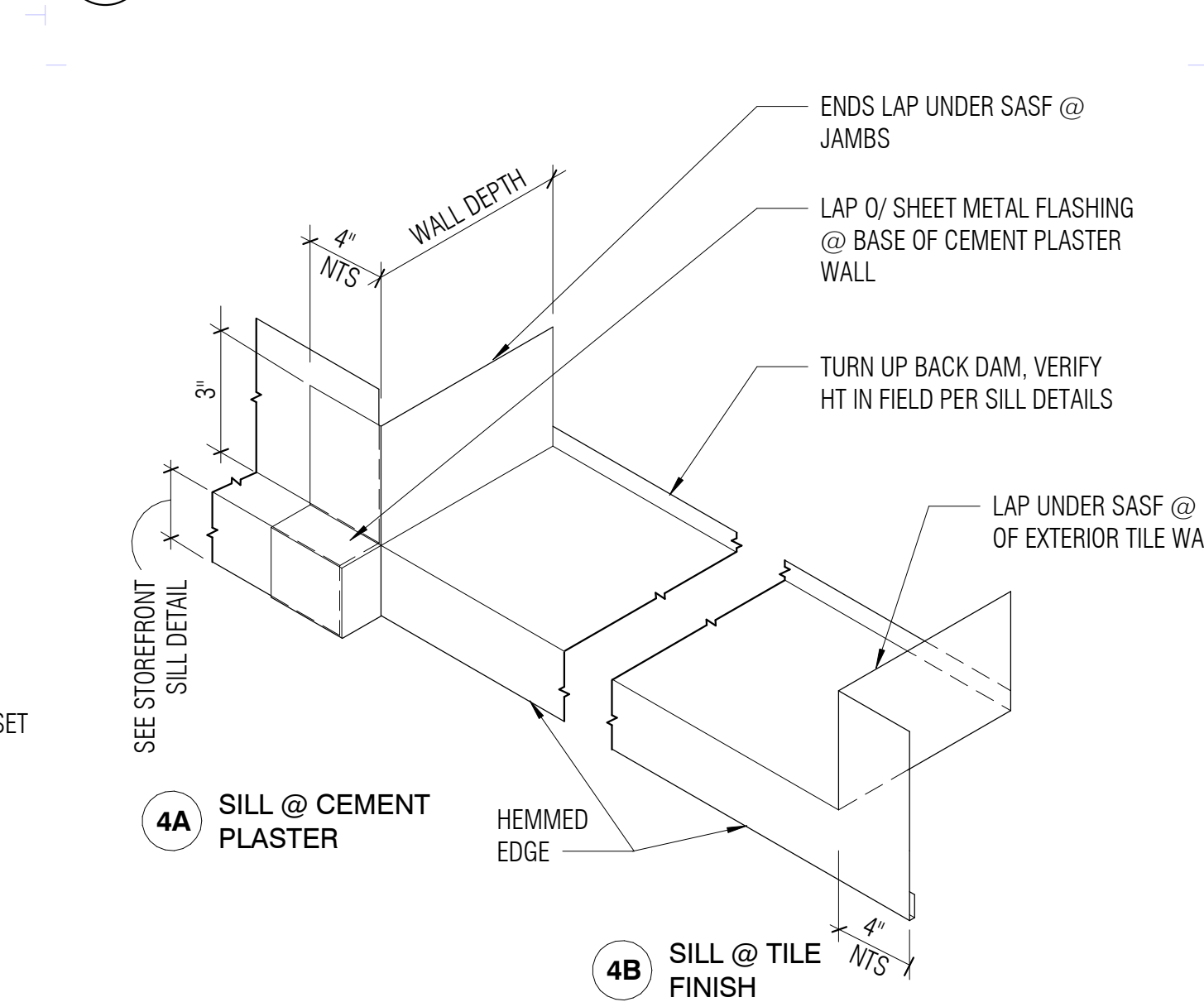
2 STOREFRONT DOOR HEAD @ TRANSOM
A6.61.2 3' = 1'-0"



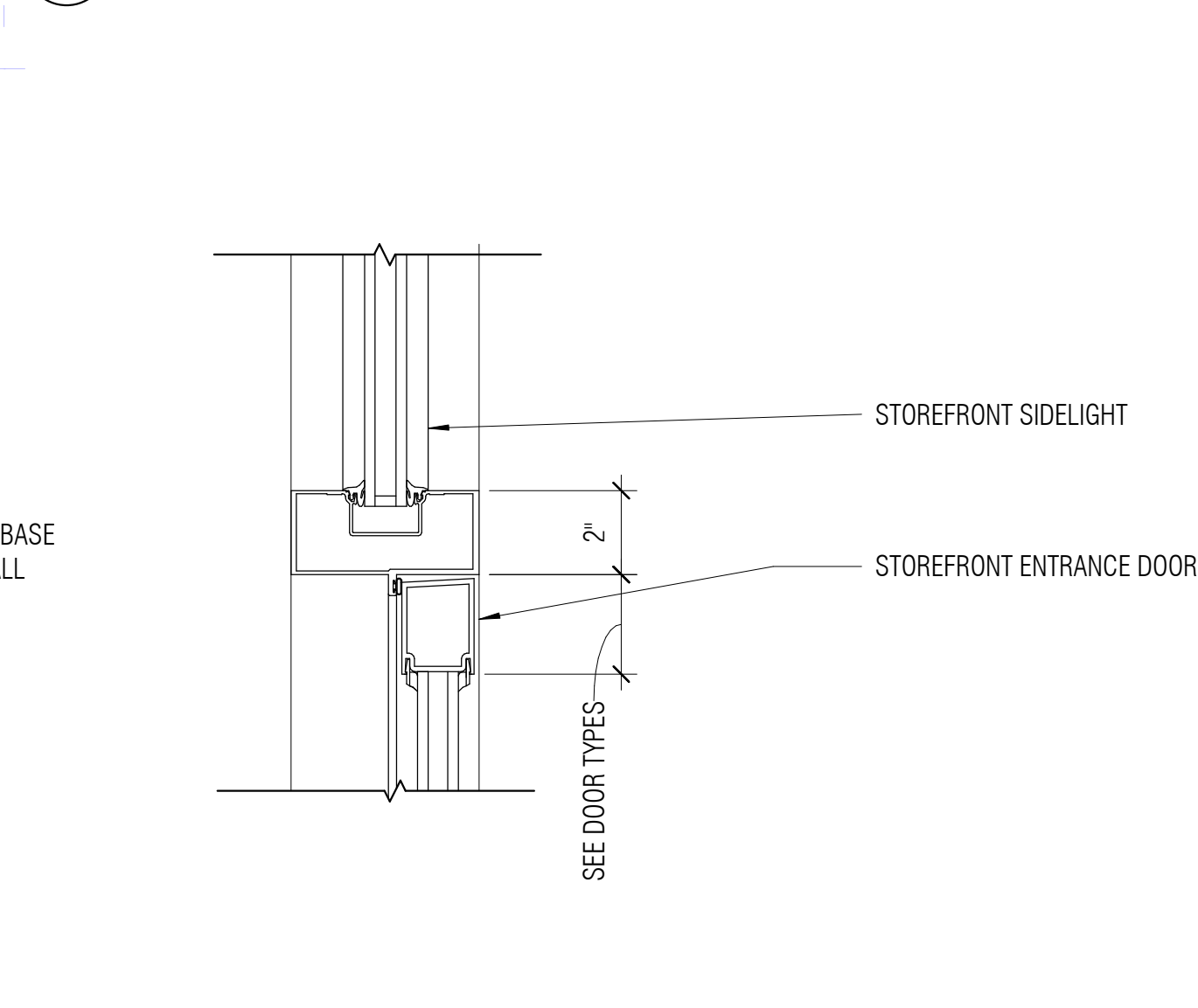
14 STOREFRONT JAMB @ TILE
A6.61.2 3' = 1'-0"



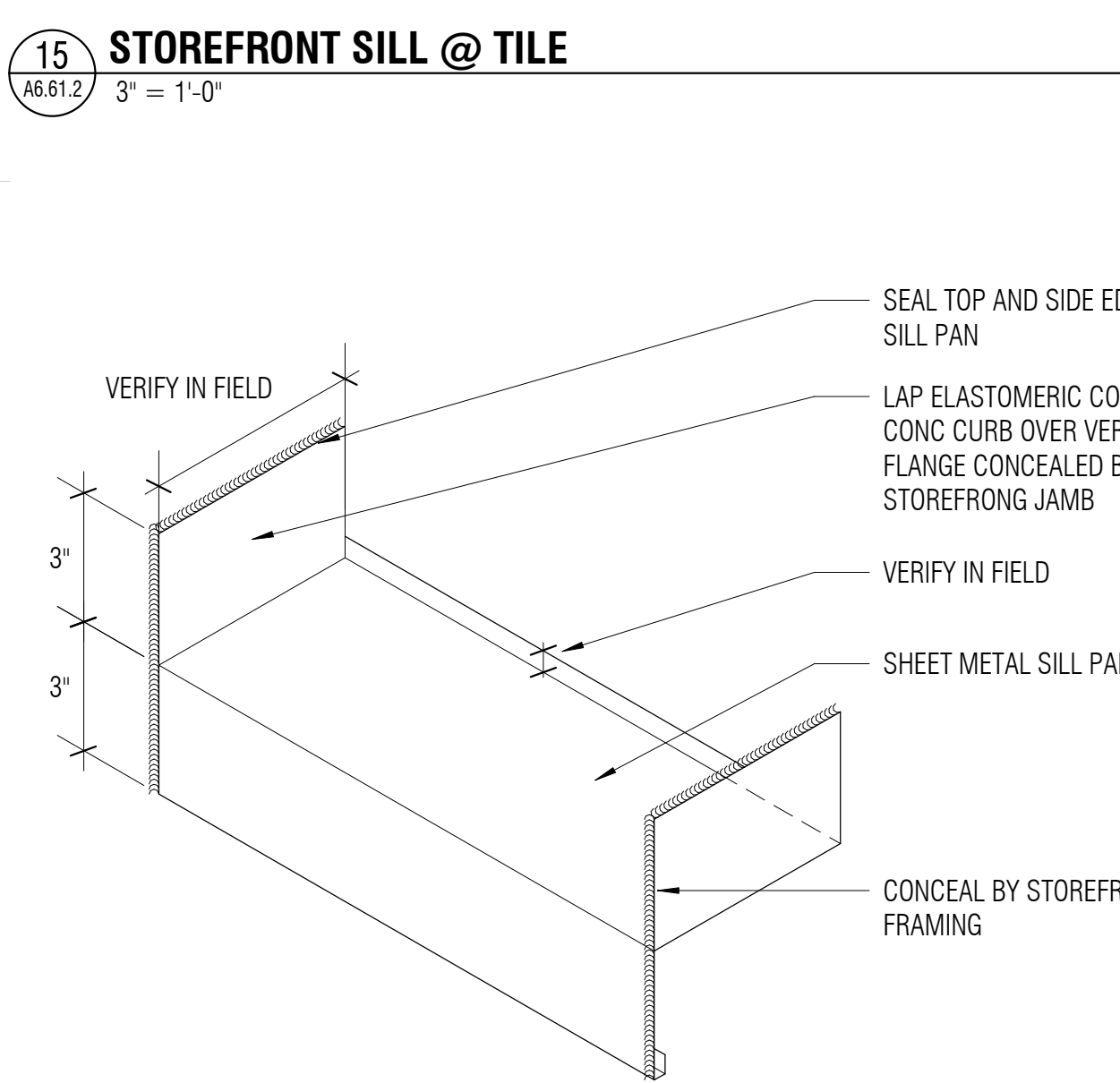
11 STOREFRONT JAMB @ LLRC ENTRANCE
A6.61.2 3' = 1'-0"



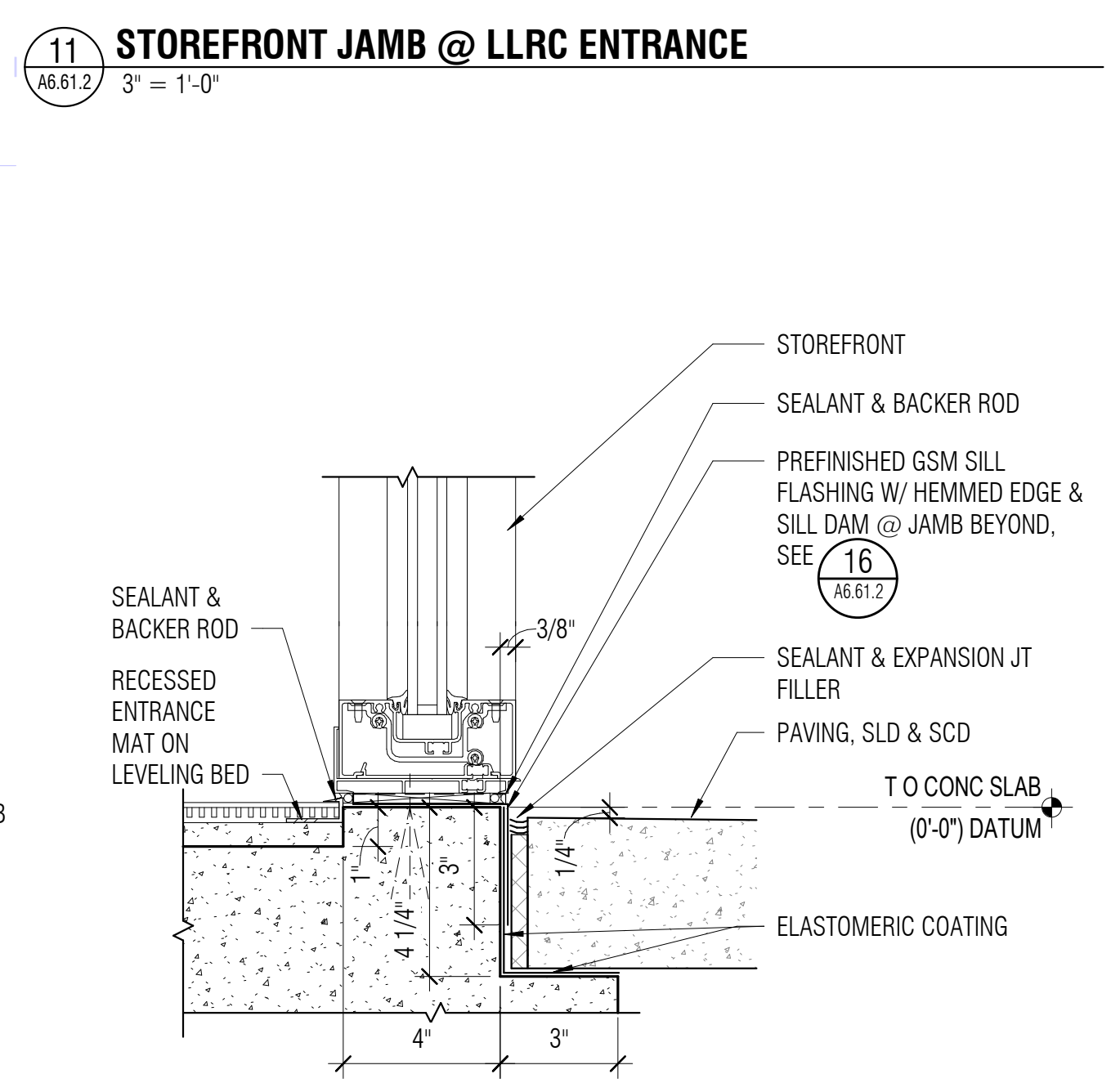
7 SILL PAN FLASHING @ STOREFRONT
A6.61.2 NOT TO SCALE



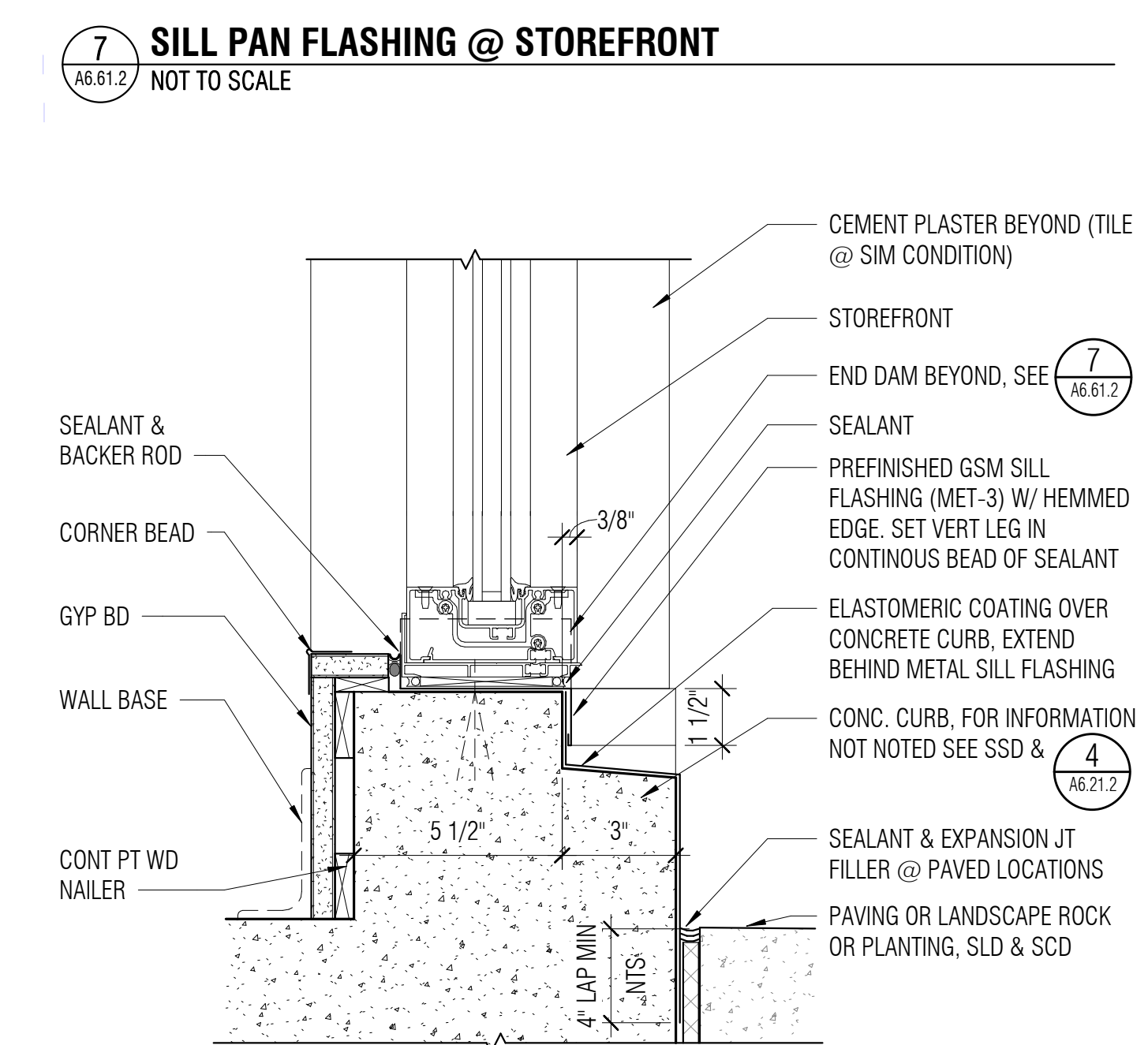
3 STOREFRONT DOOR JAMB @ SIDELIGHT
A6.61.2 3' = 1'-0"



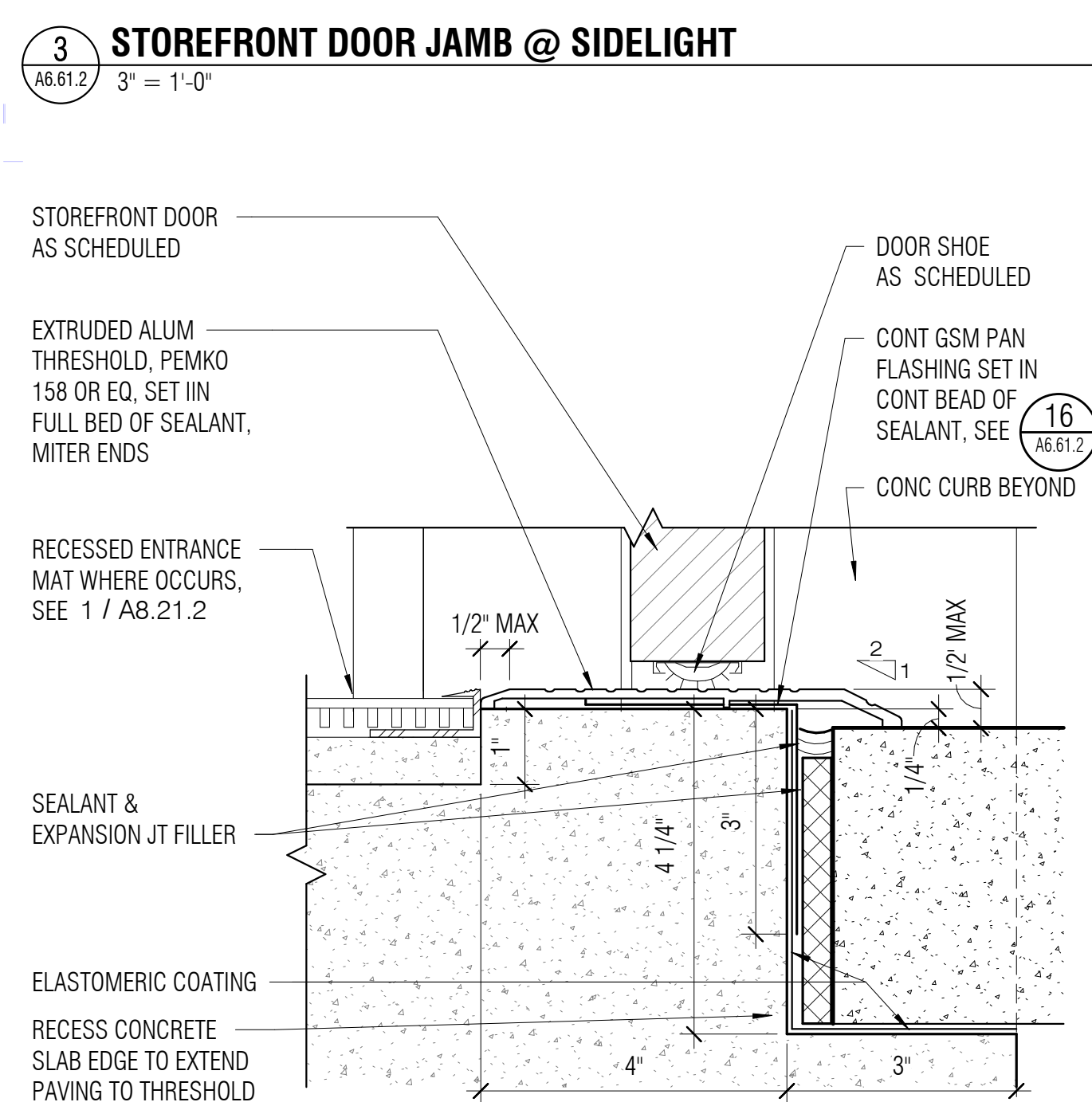
15 STOREFRONT SILL @ TILE
A6.61.2 3' = 1'-0"



12 STOREFRONT SILL @ LLRC ENTRANCE
A6.61.2 3' = 1'-0"



4 STOREFRONT SILL @ CURB @ CEMENT PLASTER (TILE SIM)
A6.61.2 3' = 1'-0"



16 EXTERIOR THRESHOLD
A6.61.2 6' = 1'-0"

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| REVISIONS | DATE | DESCRIPTION |
|-----------|---------|---------------------|
| 1 | 8/27/19 | INC 2 - ADDENDUM 03 |
| 2 | 12/2/20 | INC 2 RFI 192 |

SHEET NOTES

1. REFER TO ELECTRICAL, FIRE SPRINKLER, FIRE ALARM, & TECH DRAWINGS FOR MORE INFORMATION AND LOCATIONS OF SWITCHES, RECEPTACLES, DATA OUTLETS AND DEVICES, ETC.
2. SEE ACCESSIBILITY DETAILS ON G3.21.0 & ELECTRICAL AND TECH DRAWINGS FOR MOUNTING HEIGHTS INCLUDING BUT NOT LIMITED TO LIGHT SWITCHES, ELECTRICAL RECEPTACLES & DATA OUTLETS, ETC., ACCESSORIES, & EQUIPMENT WITH OPERABLE PARTS, ETC.
3. REFER TO FOOD SERVICE DRAWINGS FOR ADDITIONAL INFORMATION ON CASEWORK.
4. REFER TO INTERIOR FINISH SCHEDULE FOR FLOOR, WALL AND CEILING FINISHES.
5. WHERE LIBRARY BOOK STACKS EXCEED 54" HEIGHT, AN ATTENDANT WILL BE AVAILABLE TO ASSIST DISABLED LIBRARY PATRONS. CBC 11B-225.2.3

APPROVALS

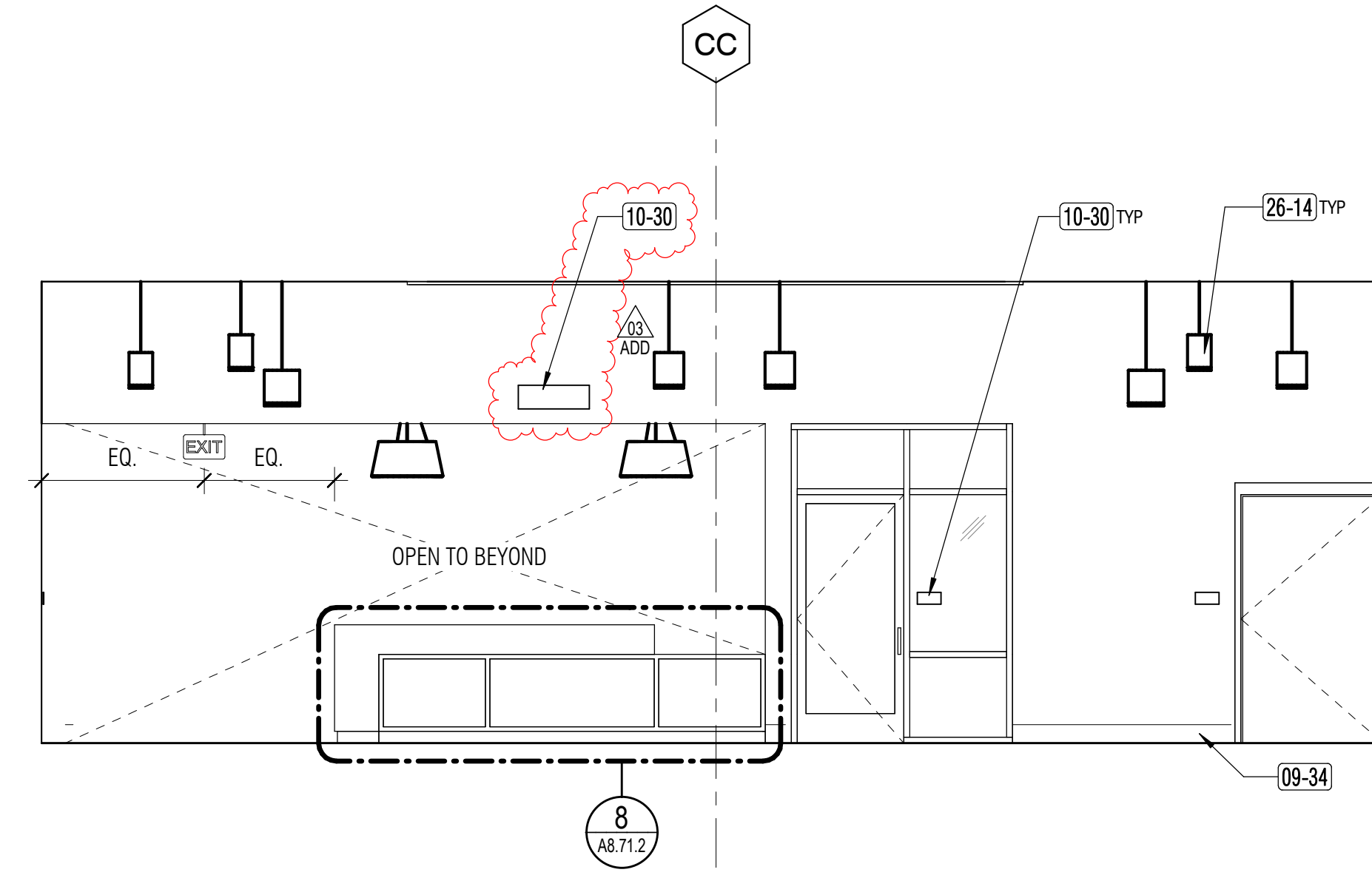
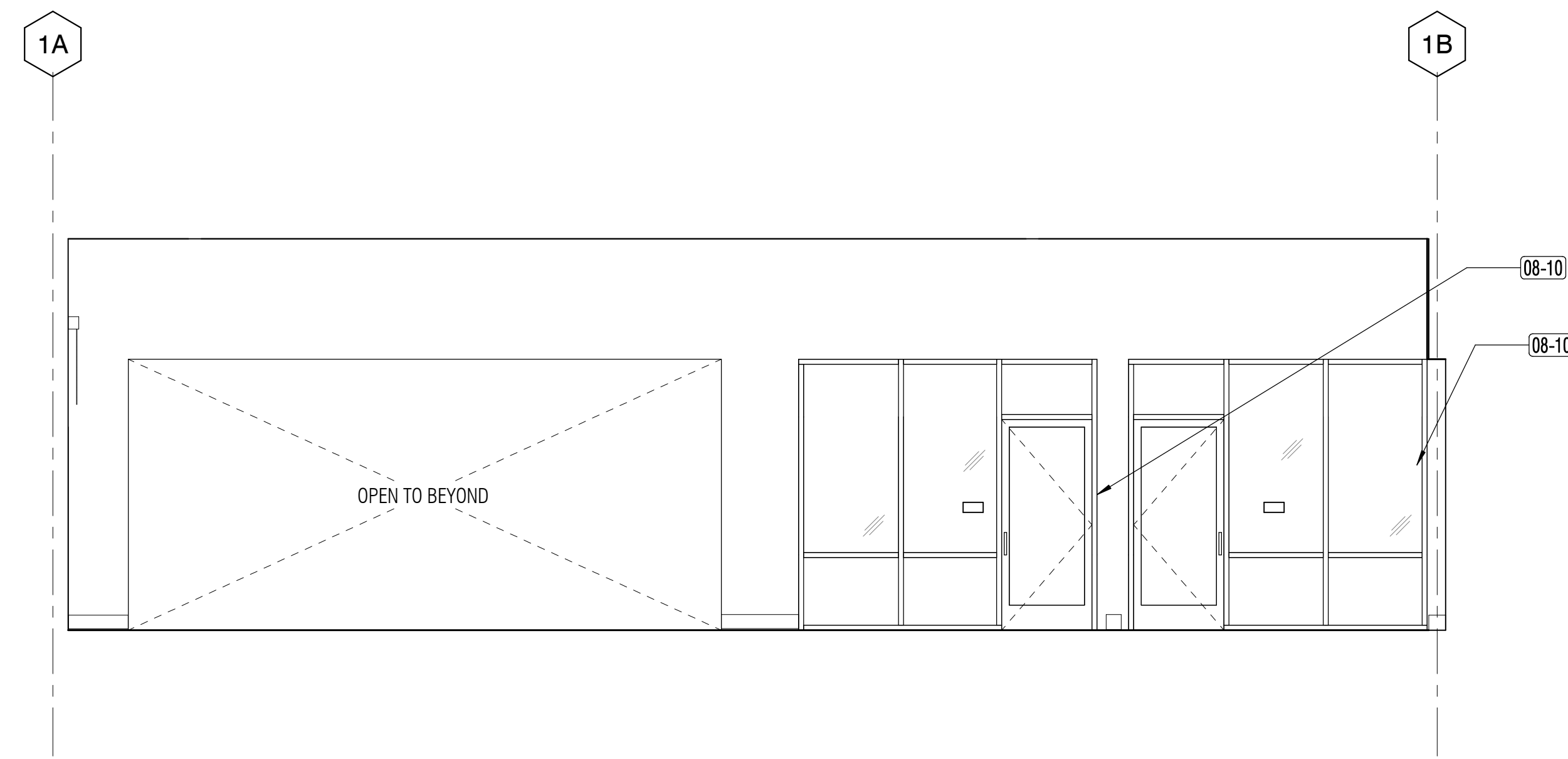
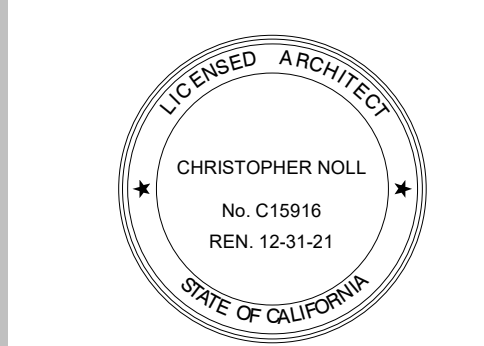
KEY NOTES

| Key Value | Keynote Text |
|-----------|--|
| 08-10 | (N) STOREFRONT |
| 09-22 | GYPSUM BOARD OVER FRAMED ENTRY OPENING AND SOFFIT |
| 09-34 | (N) WALL BASE AS SCHEDULED |
| 10-30 | SIGN AS SCHEDULED |
| 10-38 | LIBRARY BOOK SHELVING, 36" WIDE x 84" HIGH x 12" DEEP EA. QUANTITY AS SHOWN. |
| 10-39 | PLASTIC LAMINATE FILLER STRIP TO MATCH SHELVING END CAP |
| 12-02 | NEWSPAPER RACK |
| 12-03 | NEW GLASS DISPLAY CASE |
| 12-33 | NEW MANUAL WINDOW SHADES WITH FASCIA |
| 26-14 | LIGHT FIXTURE AS SCHEDULED, SED |

NOLL & TAM ARCHITECTS

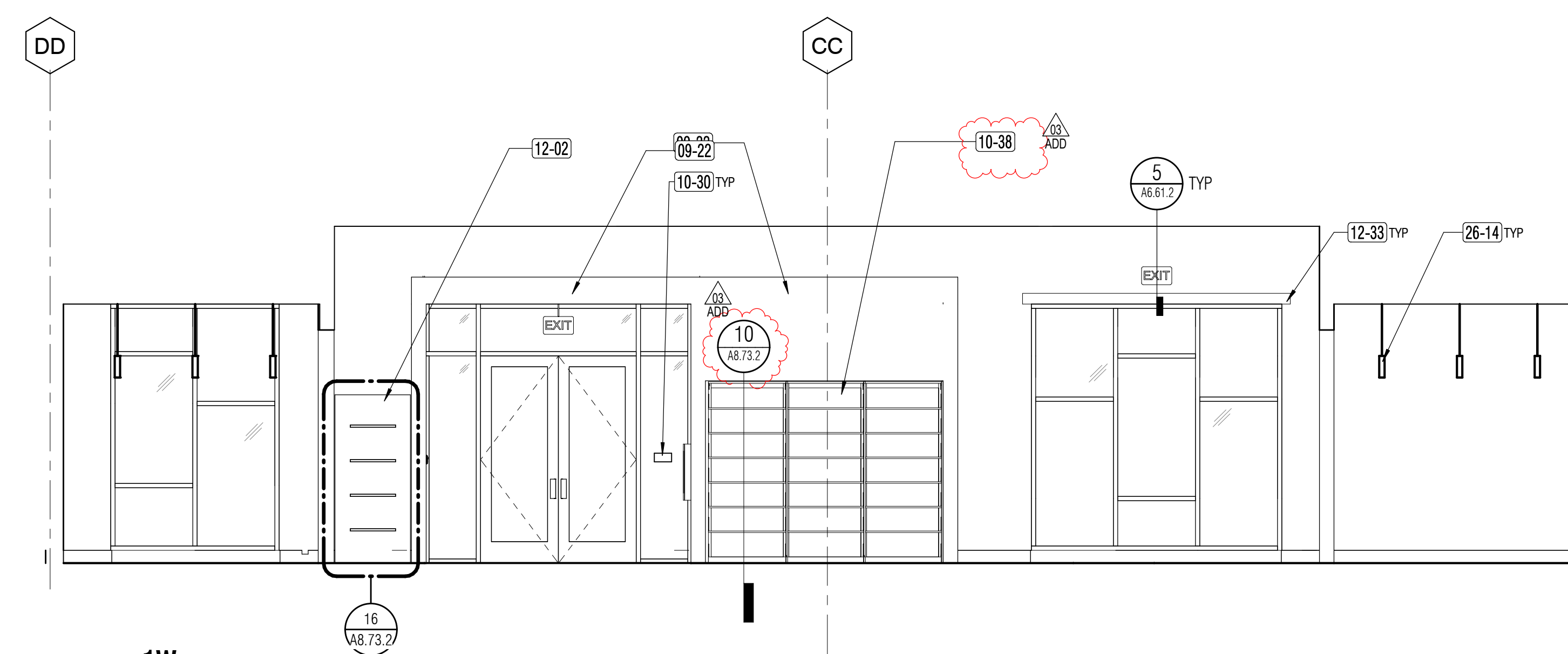
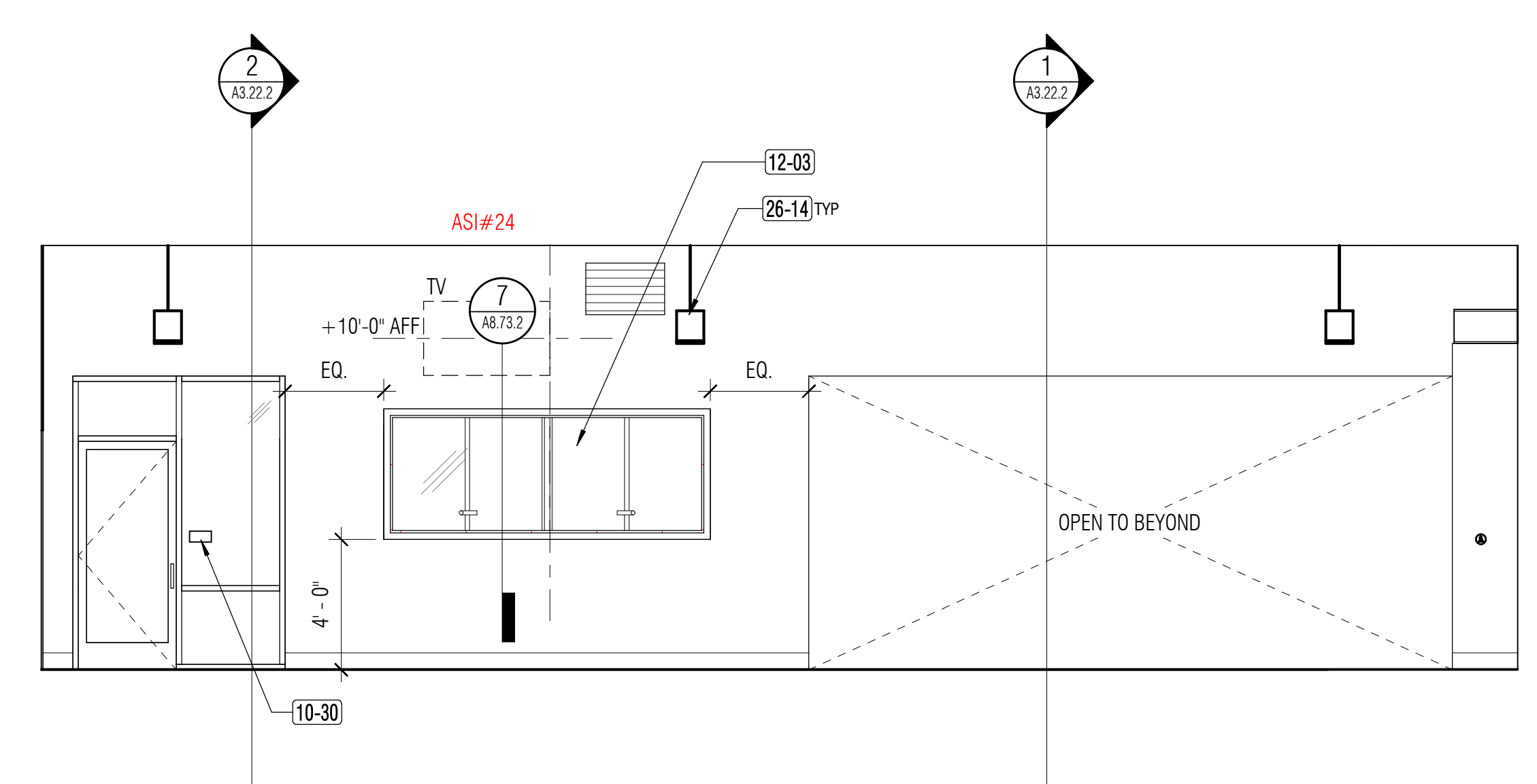
729 Heinz Avenue
Berkeley, CA 94710
tel 510.542.2200
fax 510.542.2201

ARCHITECTS SEAL



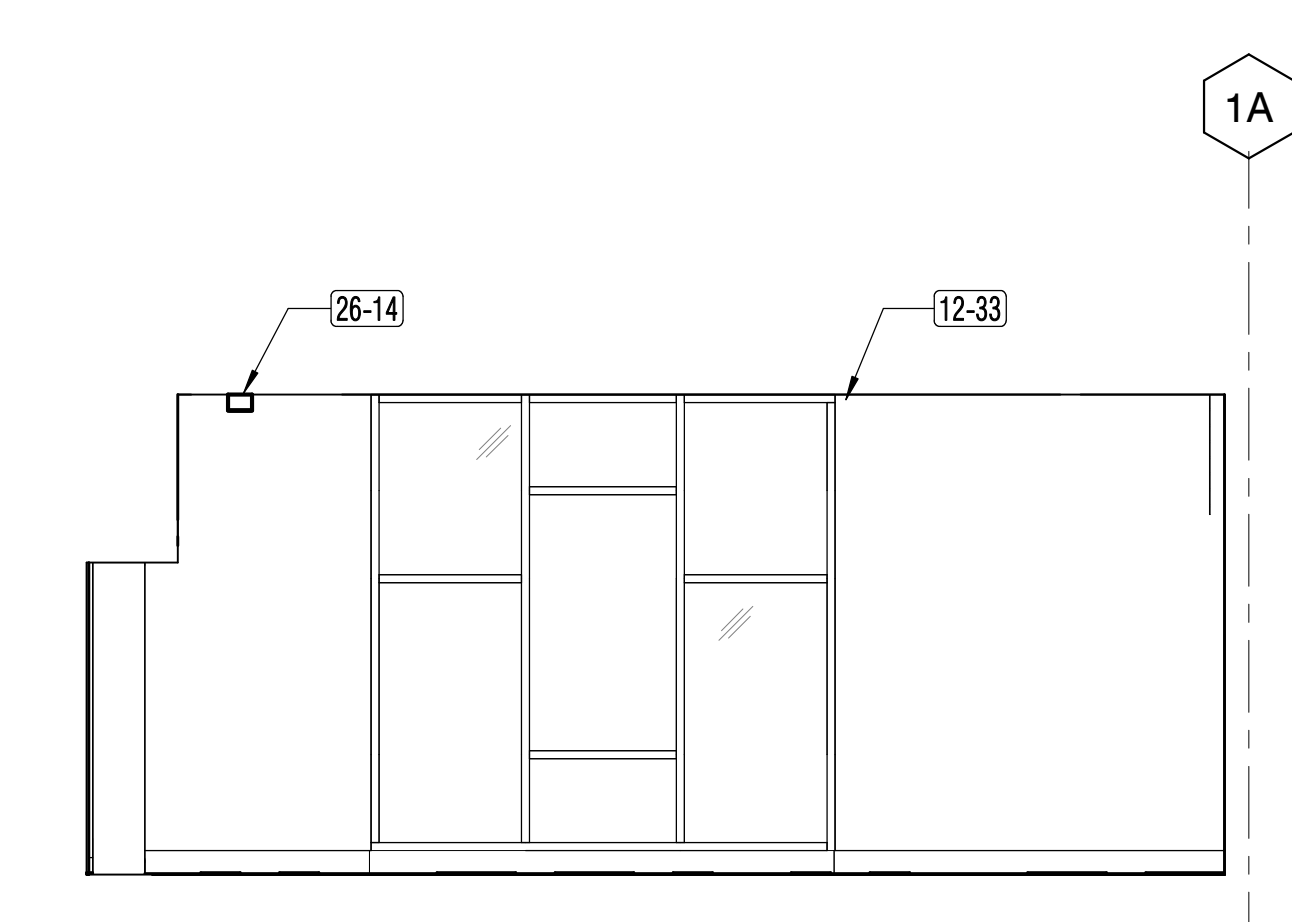
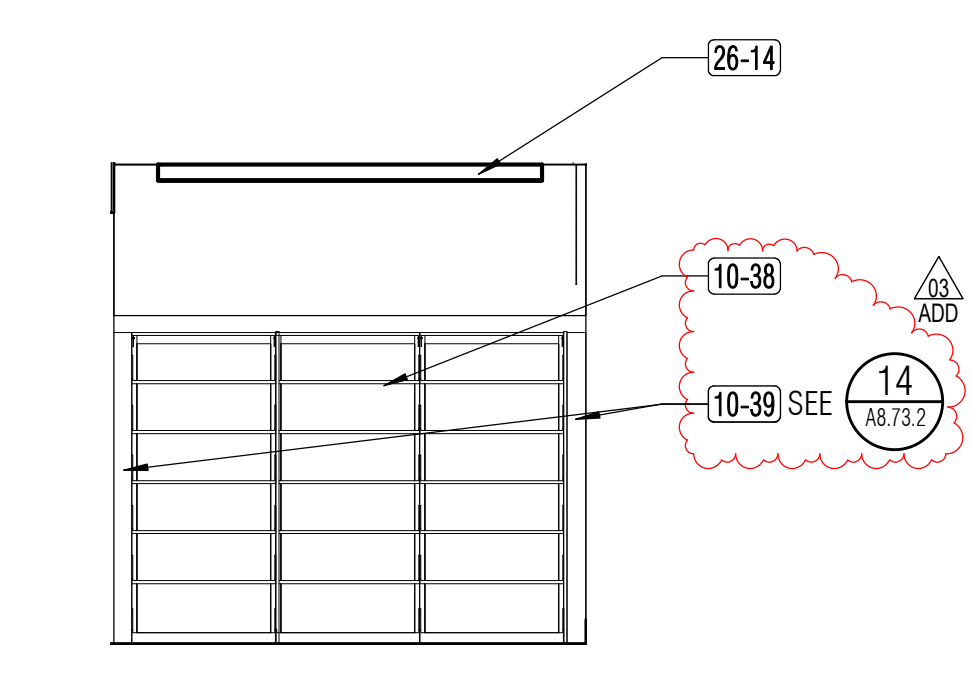
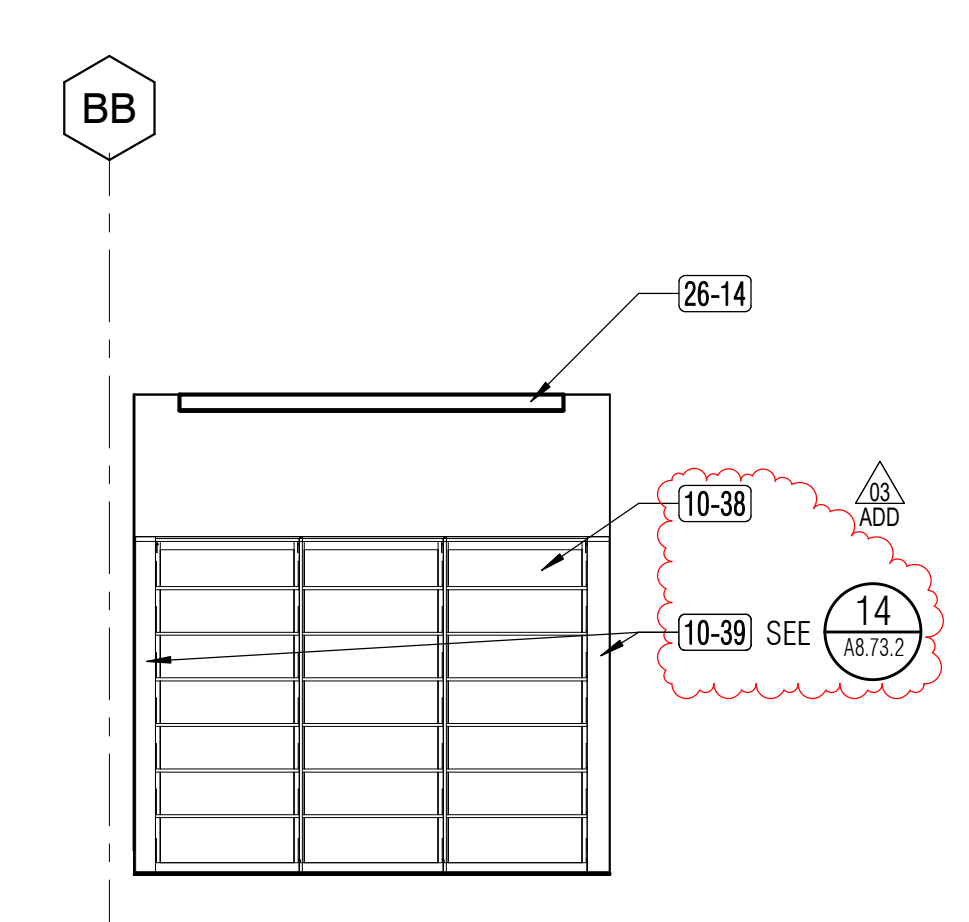
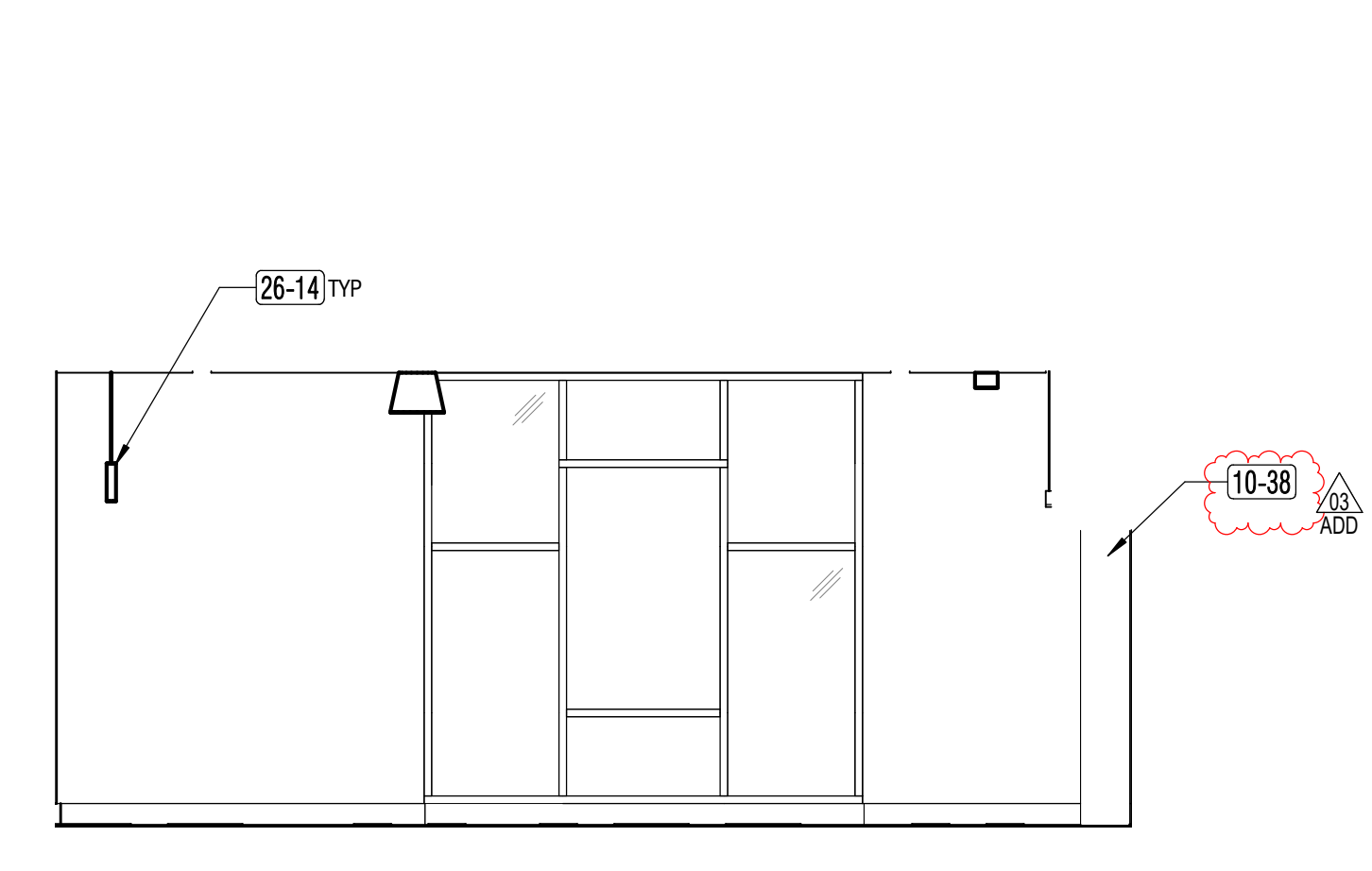
1N
INTERIOR ELEVATION - LIBRARY
A7.15.2 1/4" = 1'-0"

1E



1S
INTERIOR ELEVATION - LIBRARY
A7.15.2 1/4" = 1'-0"

1W



2N
INTERIOR ELEVATION - N. LIBRARY ALCOVE
A7.15.2 1/4" = 1'-0"

2E

3E
INTERIOR ELEVATION - S. LIBRARY ALCOVE
A7.15.2 1/4" = 1'-0"

3S

PROJECT TITLE
**CONTRA COSTA
CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION &
RENOVATION**

1690 Watermill Rd.
San Ramon, CA 94582

RECORD SET:
THESE DRAWINGS HAVE BEEN PREPARED FROM ADDENDUMS, CCD'S, ASIS AND SELECT RFI'S OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM. ONLY A SELECT FEW AS-BUILTS WERE SUBMITTED.

ISSUE TITLE
INCREMENT 2

| | |
|-----------------------|-------------------------|
| ISSUE DATE | 5/30/2019 |
| NOLL & TAM JOB NUMBER | 21630 |
| REVISIONS | |
| DATE | DESCRIPTION |
| 8/27/19 | INC 2 - ADDENDUM 03 |
| 10/15/19 | INC 2 - ADDENDUM 03 REV |

SHEET TITLE
INTERIOR ELEVATIONS - LIBRARY LEARNING RESOURCE CENTER

SHEET NUMBER

A7.15.2

ASI #24 PROVIDE PROPOSED RELOCATION OF POWER AND DATA RECEPTACLES TO ACCOMMODATE THE LOCATION OF PROPOSED TV MONITOR, AS FURNISHED BY THE DISTRICT, ABOVE THE 10'x4' GLASS DISPLAY CASE. CONFIRM FINAL SIZE OF TV

SHEET NOTES

1. REFER TO ELECTRICAL, FIRE SPRINKLER, FIRE ALARM, & TECH DRAWINGS FOR MORE INFORMATION AND LOCATIONS OF SWITCHES, RECEPTACLES, DATA OUTLETS AND DEVICES, ETC.
2. SEE ACCESSIBILITY DETAILS ON G3.21.0 & ELECTRICAL AND TECH DRAWINGS FOR MOUNTING HEIGHTS INCLUDING BUT NOT LIMITED TO LIGHT SWITCHES, ELECTRICAL RECEPTACLES & DATA OUTLETS, ETC. ACCESSORIES, & EQUIPMENT WITH OPERABLE PARTS, ETC.
3. REFER TO FOOD SERVICE DRAWINGS FOR ADDITIONAL INFORMATION ON CASEWORK.
4. REFER TO INTERIOR FINISH SCHEDULE FOR FLOOR, WALL AND CEILING FINISHES.

APPROVALS

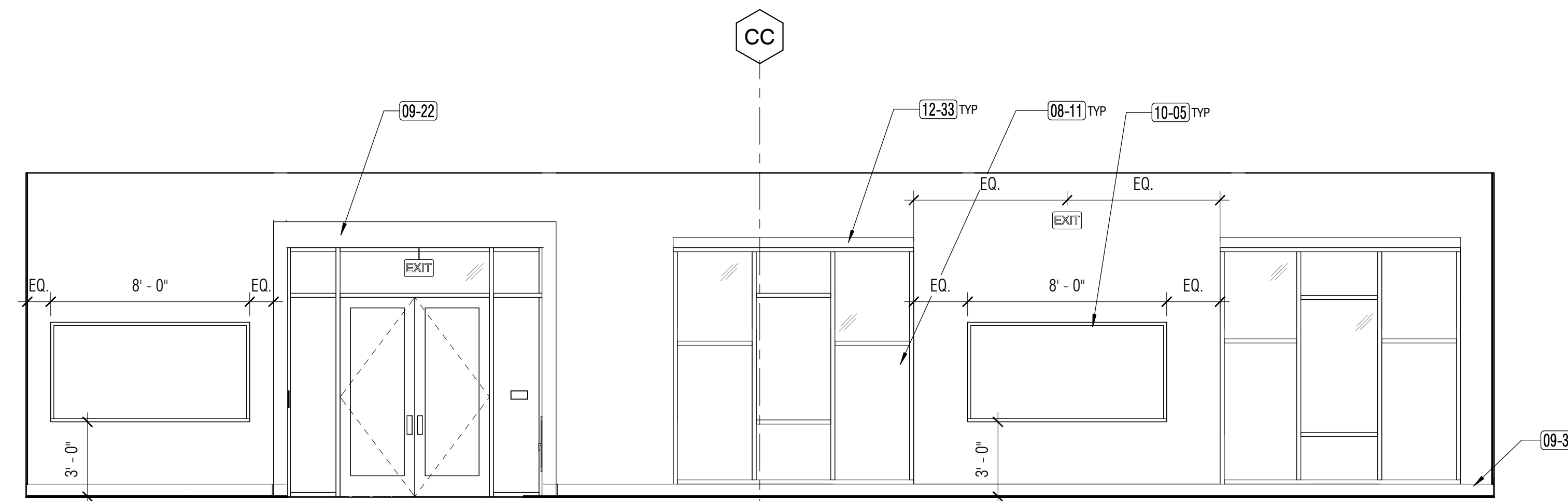
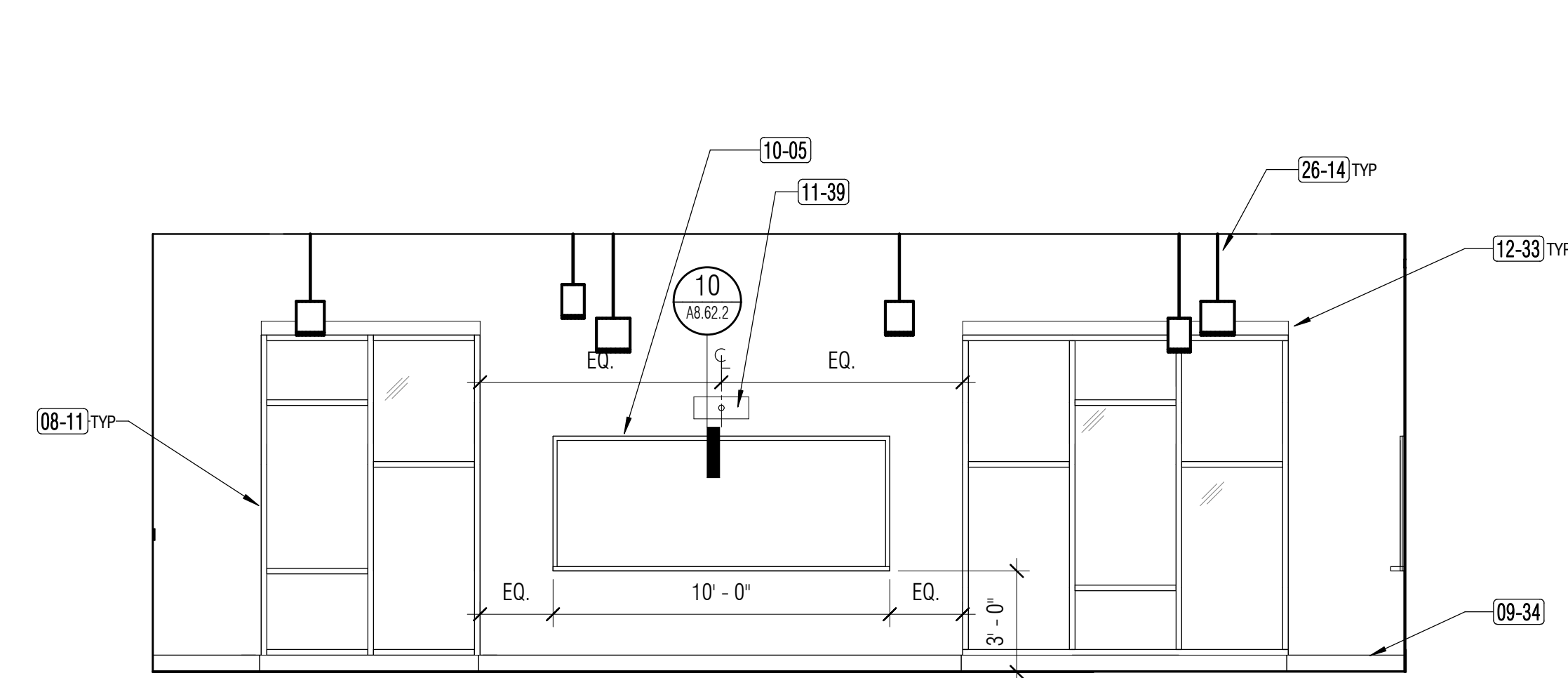
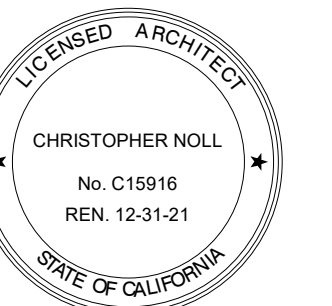
KEY NOTES

| Key Value | Keynote Text |
|-----------|---|
| 05-04 | METAL ACCESS LADDER |
| 06-14 | RECEPTION DESK WITH SOLID SURFACE TOP, WOOD VENEER BASE CABINETS, WOOD TRIM, AND RESIN PANELS |
| 06-16 | 42" HIGH WOOD SHELVING UNIT FOR RESERVES COLLECTION, WITH ADJUSTABLE SHELVES |
| 08-11 | STOREFRONT |
| 09-22 | GYPSUM BOARD OVER FRAMED ENTRY OPENING AND SOFFIT |
| 09-34 | (N) WALL BASE AS SCHEDULED |
| 10-05 | MARKERBOARD |
| 10-30 | SIGN AS SCHEDULED |
| 10-33 | BULLETIN BOARD |
| 11-39 | SHORT THROW PROJECTOR & MOUNT, OFCI. |
| 12-33 | NEW MANUAL WINDOW SHADES WITH FASCIA |
| 26-14 | LIGHT FIXTURE AS SCHEDULED, SED |

NOLL & TAM ARCHITECTS

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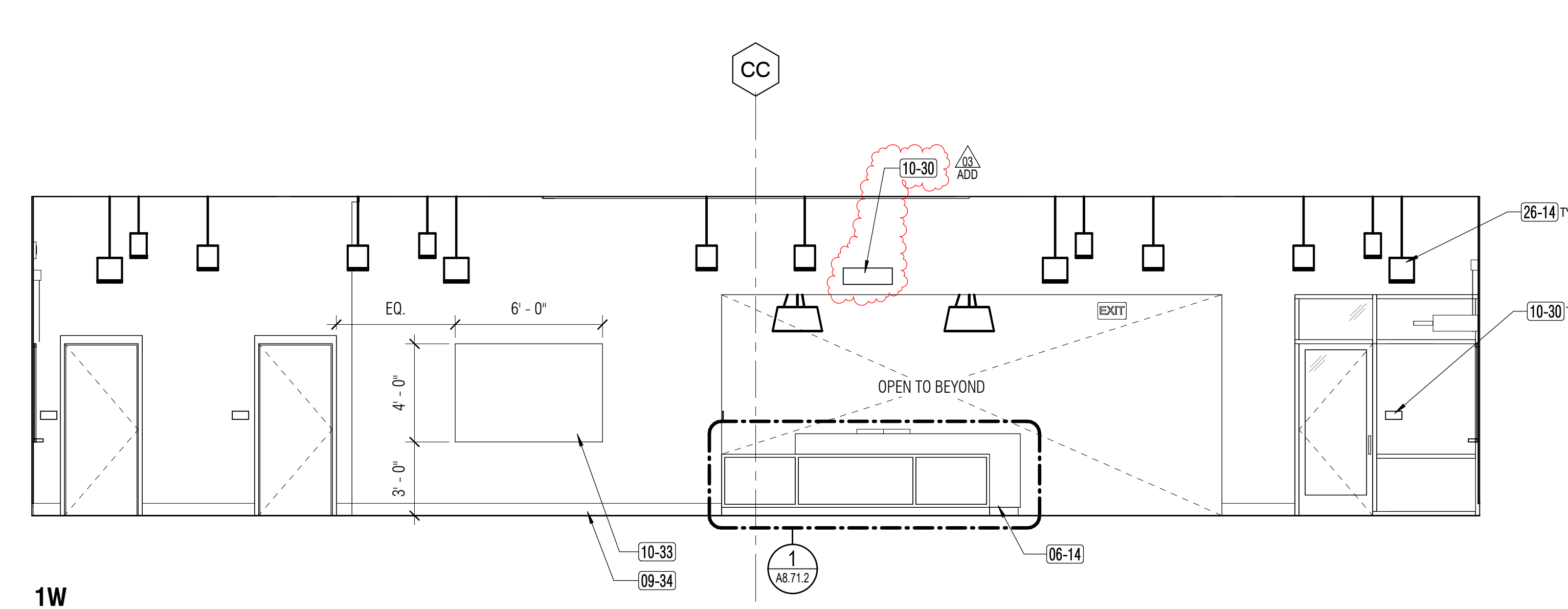
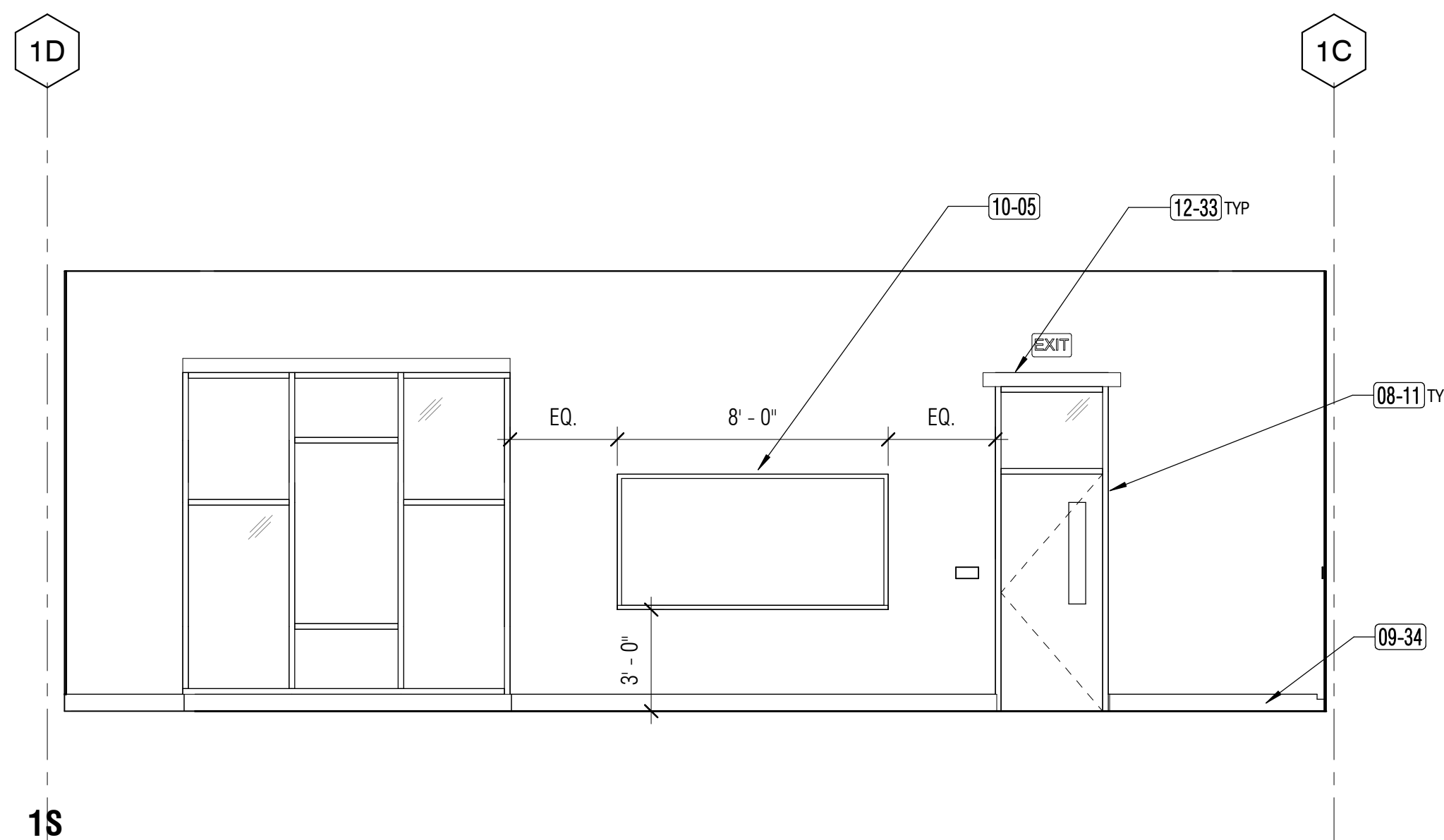
ARCHITECTS SEAL



1N
INTERIOR ELEVATIONS - TUTORIAL

1/4" = 1'-0"

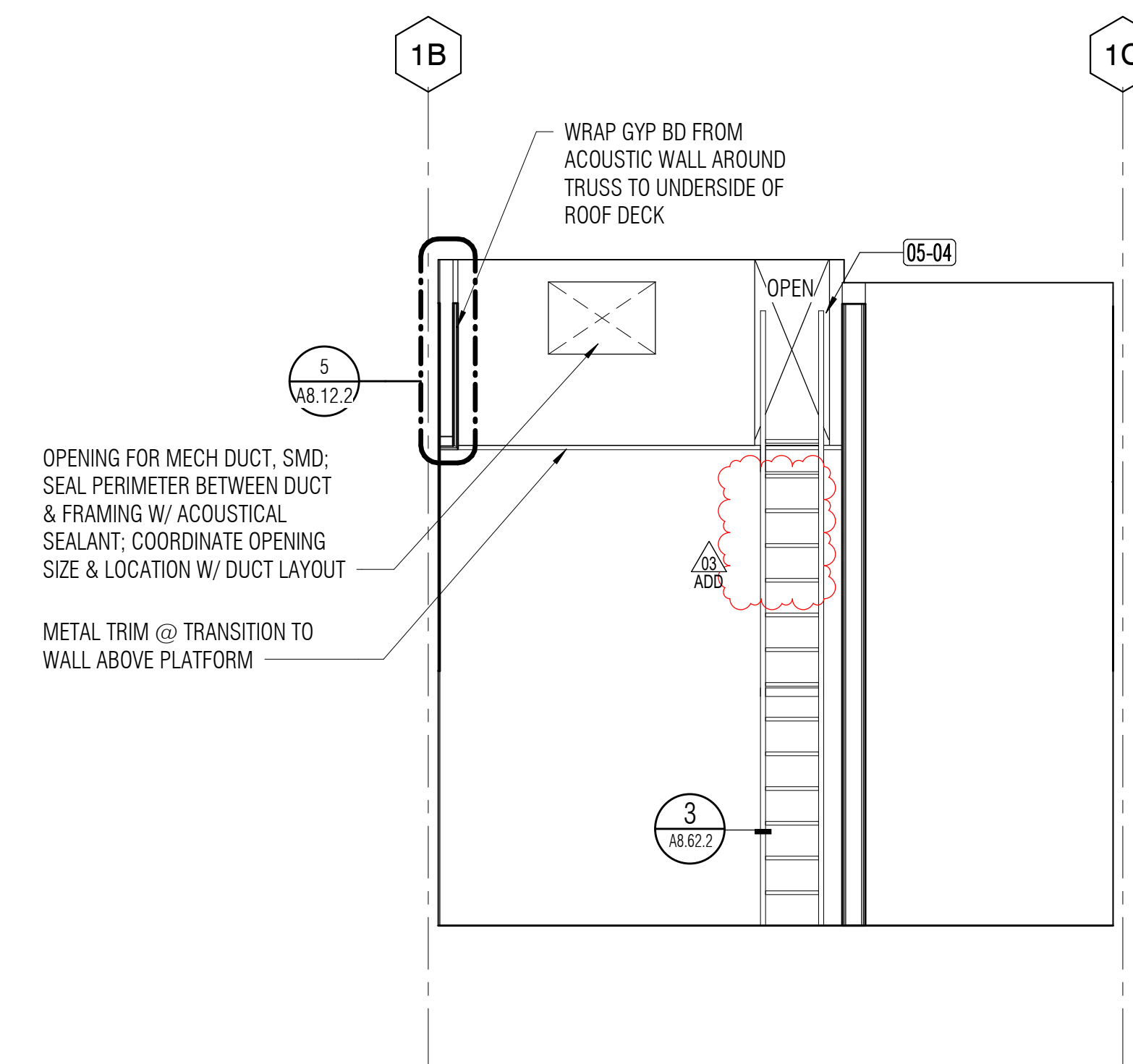
1E



1S
INTERIOR ELEVATIONS - TUTORIAL

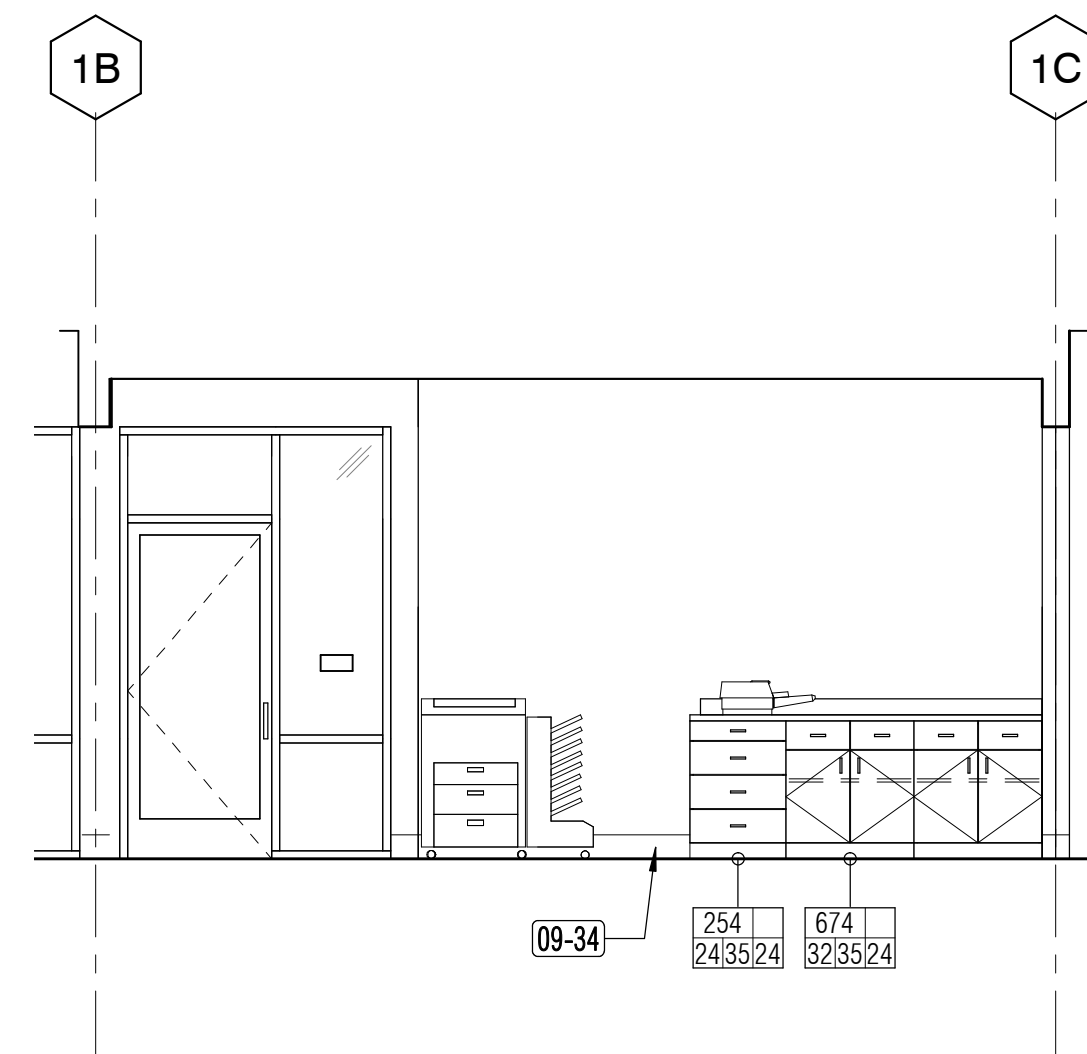
1/4" = 1'-0"

1W



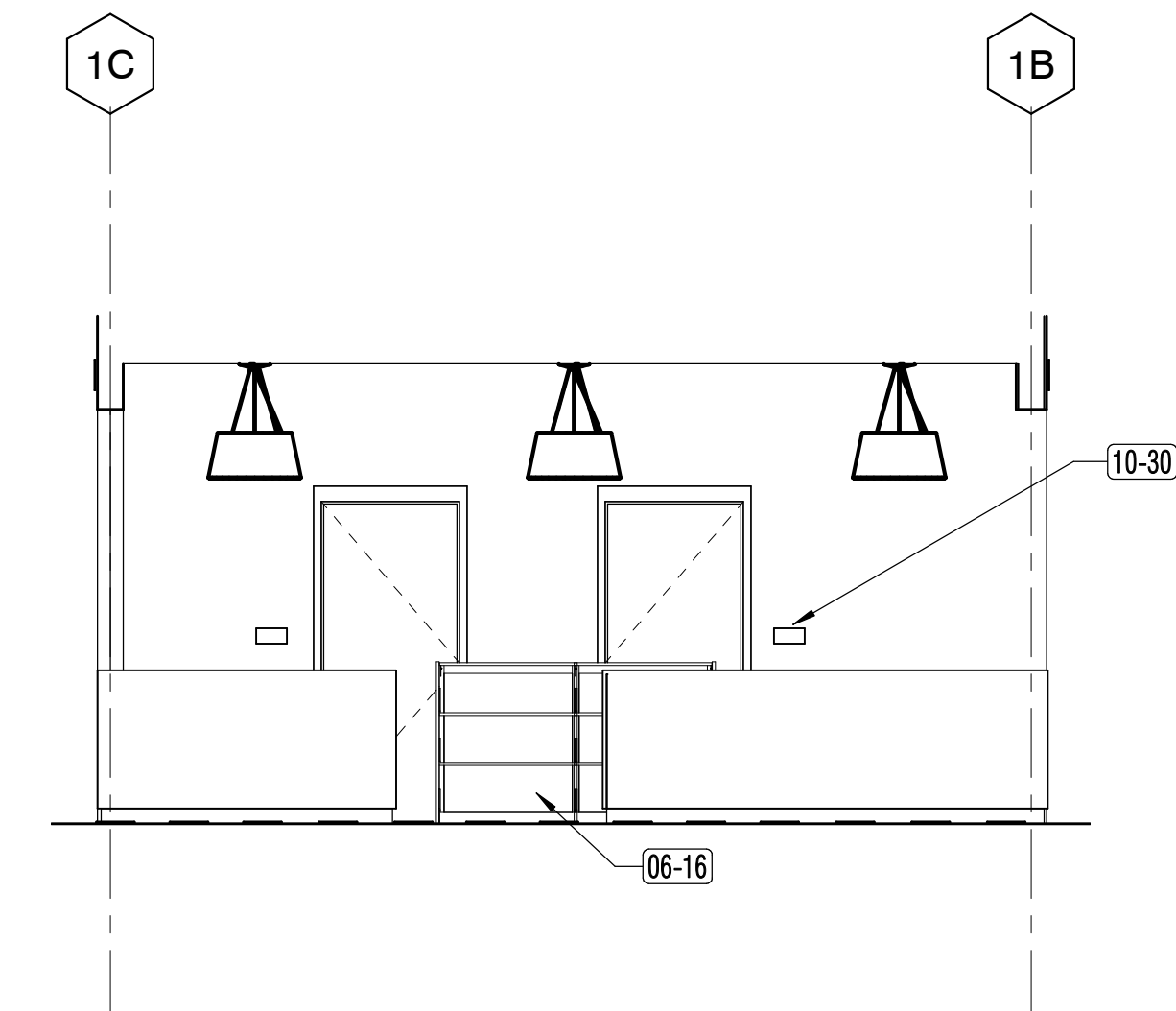
2N
MECHANICAL ROOM NORTH ELEVATION

1/4" = 1'-0"



2N
INTERIOR ELEVATION - HALLWAY

1/4" = 1'-0"



2S

PROJECT TITLE

**CONTRA COSTA
CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION &
RENOVATION**

1690 Watermill Rd.
San Ramon, CA 94582

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ISSUE TITLE

INCREMENT 2

ISSUE DATE 5/30/2019

NOLL & TAM JOB NUMBER 21630

REVISIONS
DATE DESCRIPTION
8/27/19 INC 2 - ADDENDUM 03

SHEET TITLE

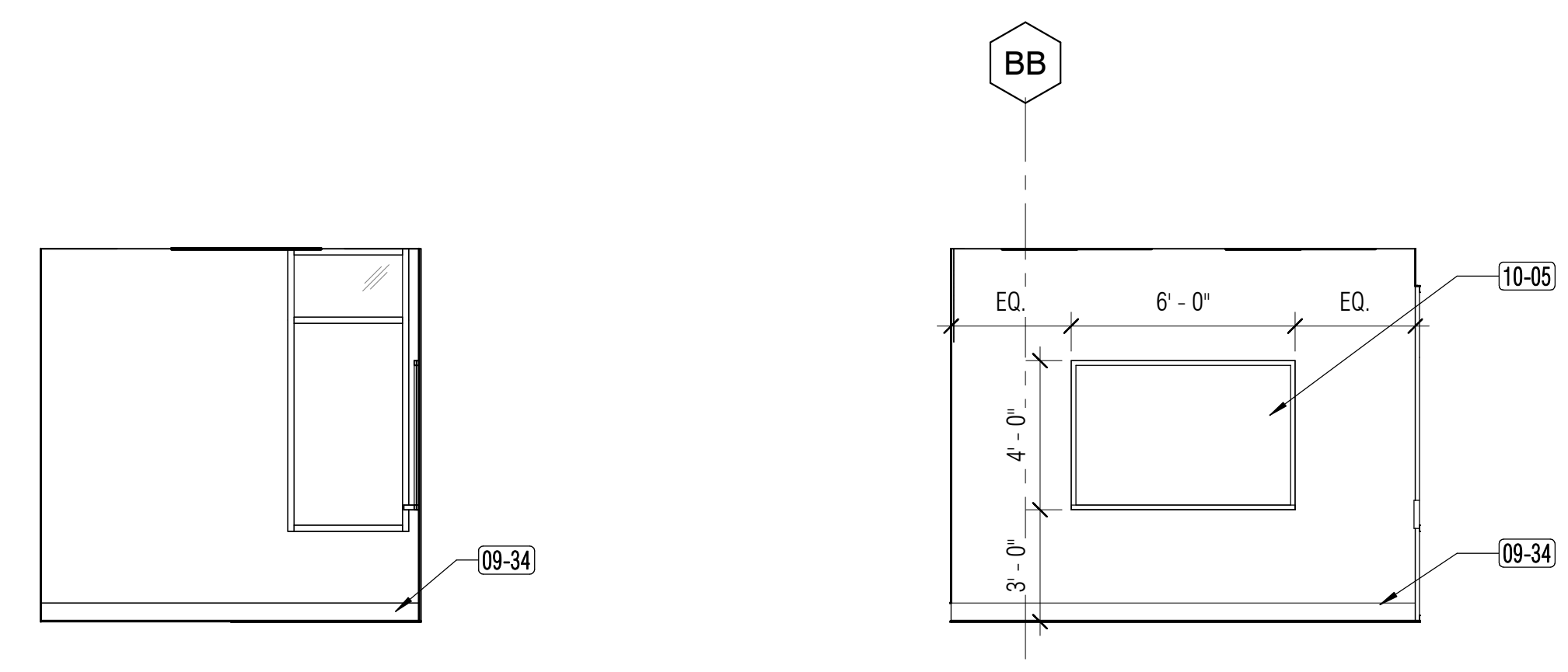
**INTERIOR
ELEVATIONS -
LIBRARY LEARNING
RESOURCE CENTER**

SHEET NUMBER

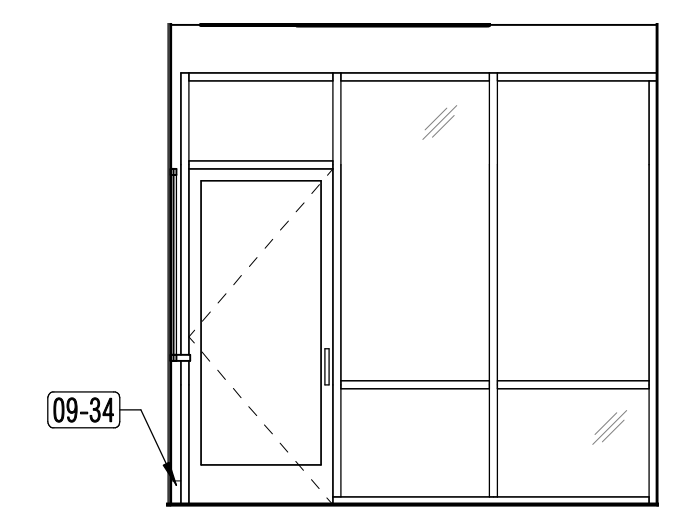
A7.16.2

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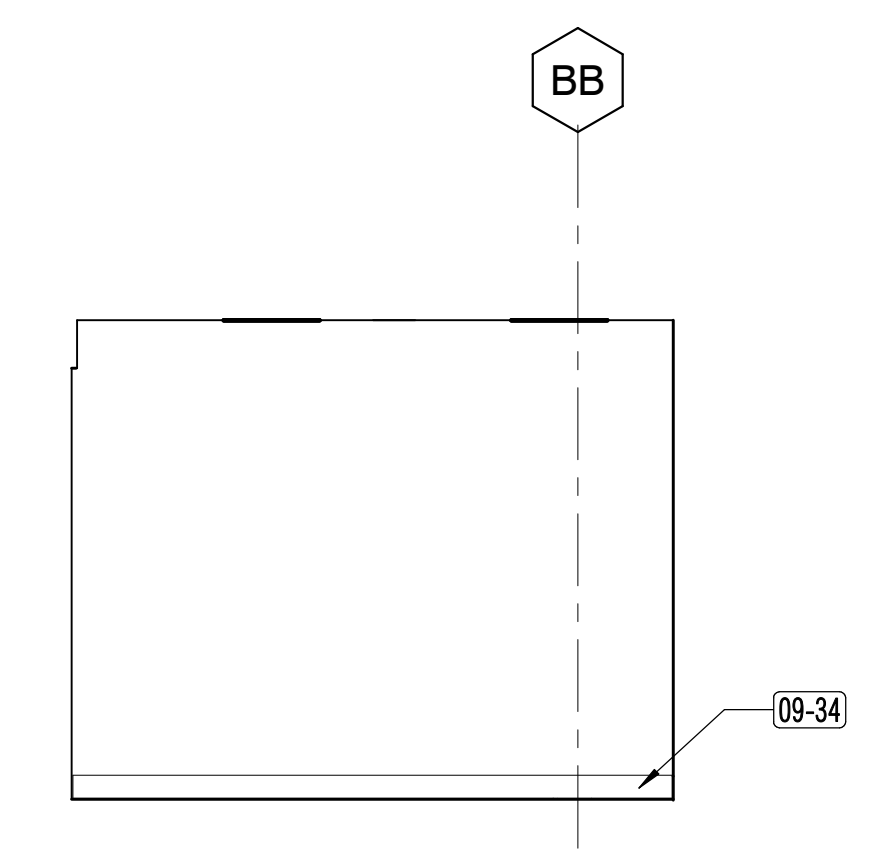
1N
INTERIOR ELEVATION - STUDY ROOM 03
1/4" = 1'-0"



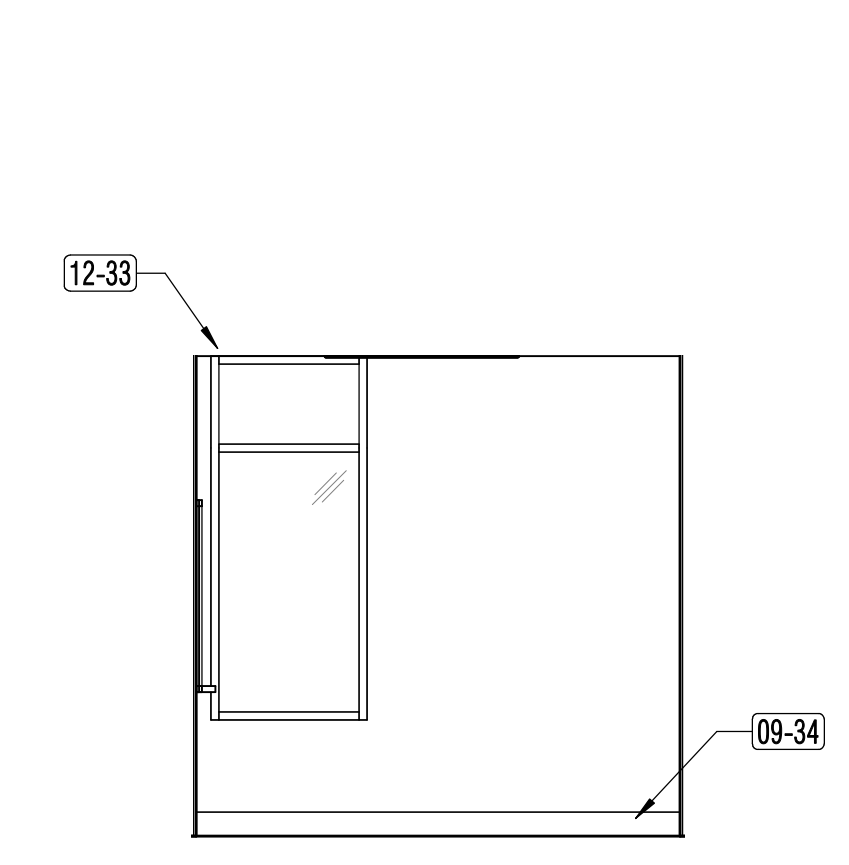
1S



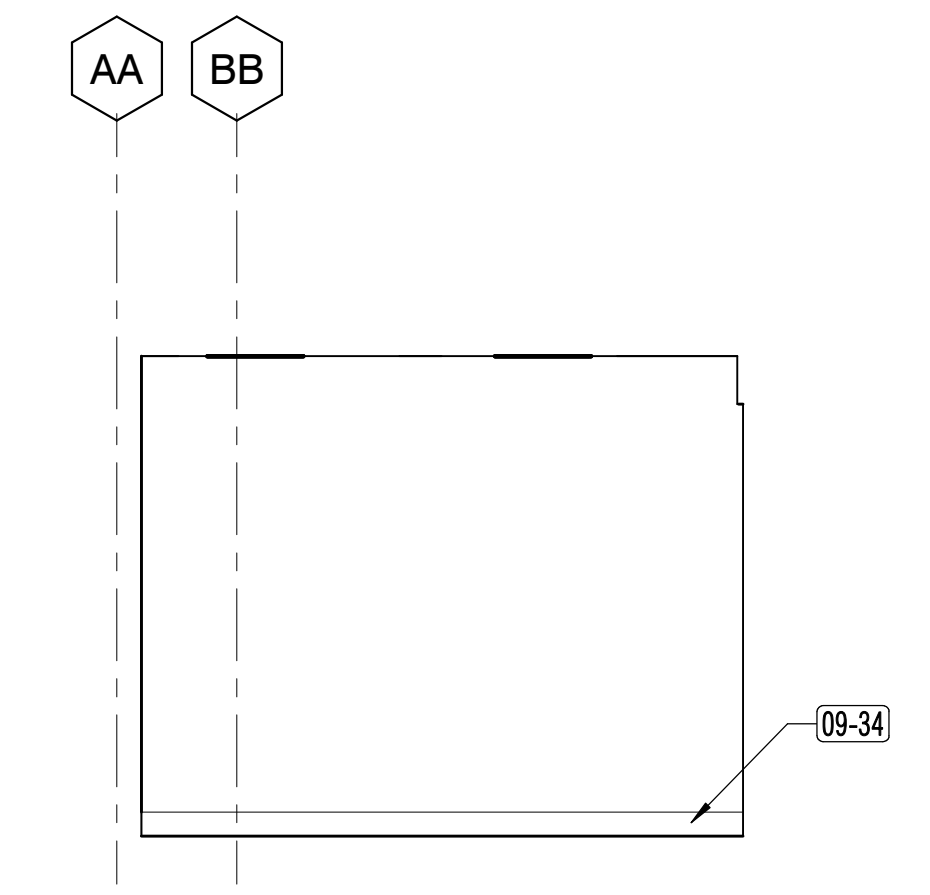
1W



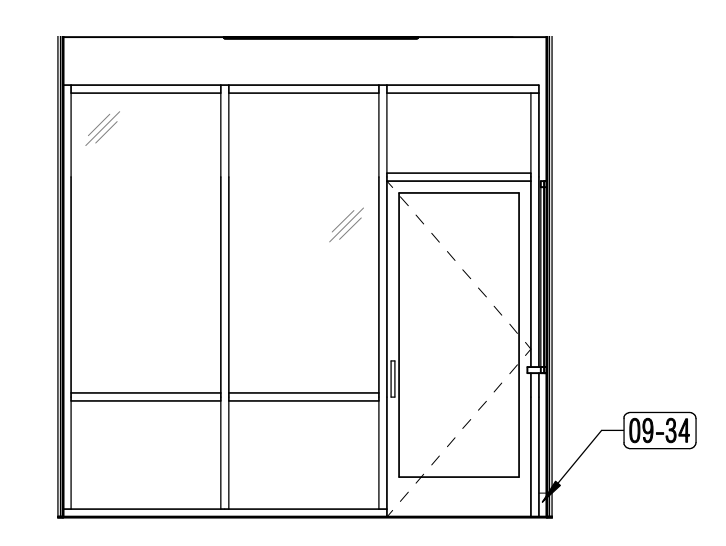
2N
INTERIOR ELEVATION - STUDY ROOM 04
1/4" = 1'-0"



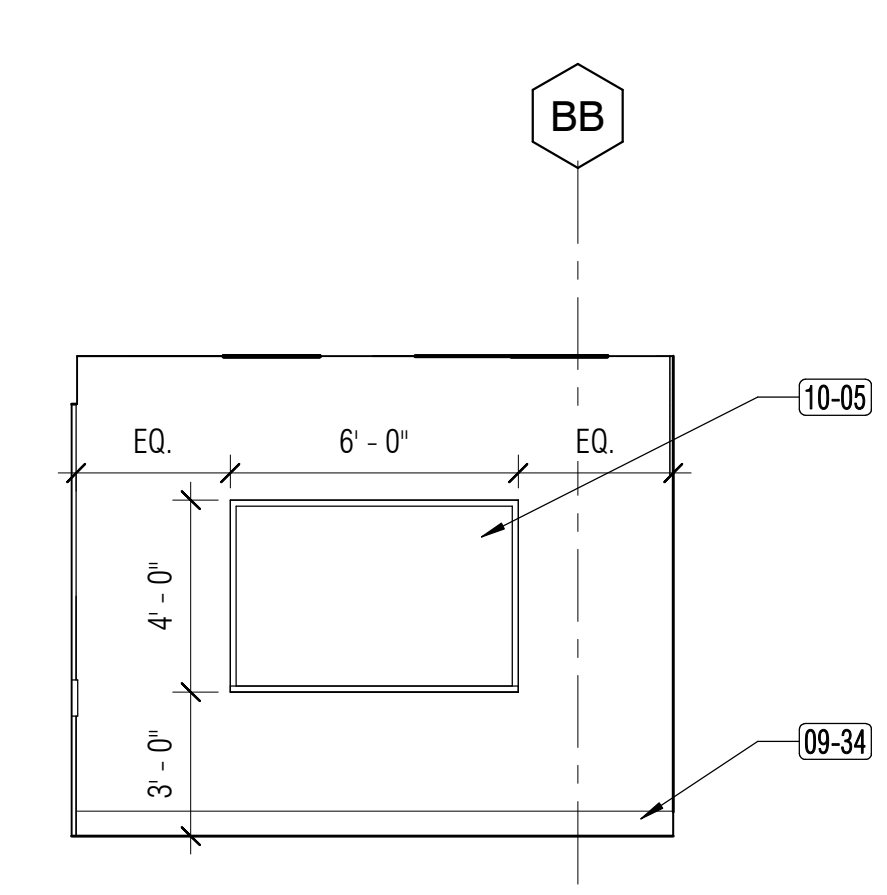
2E



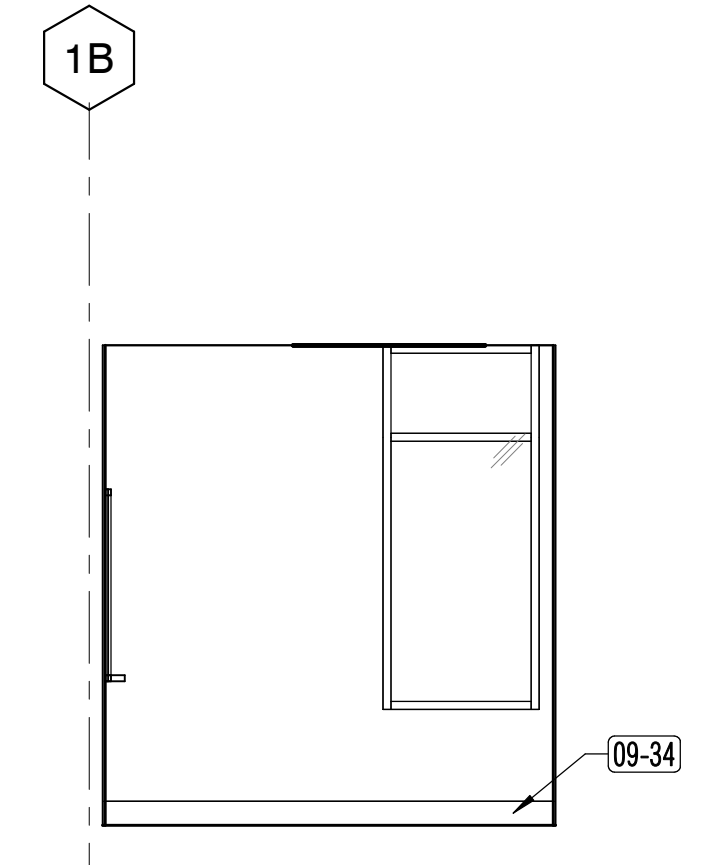
2S



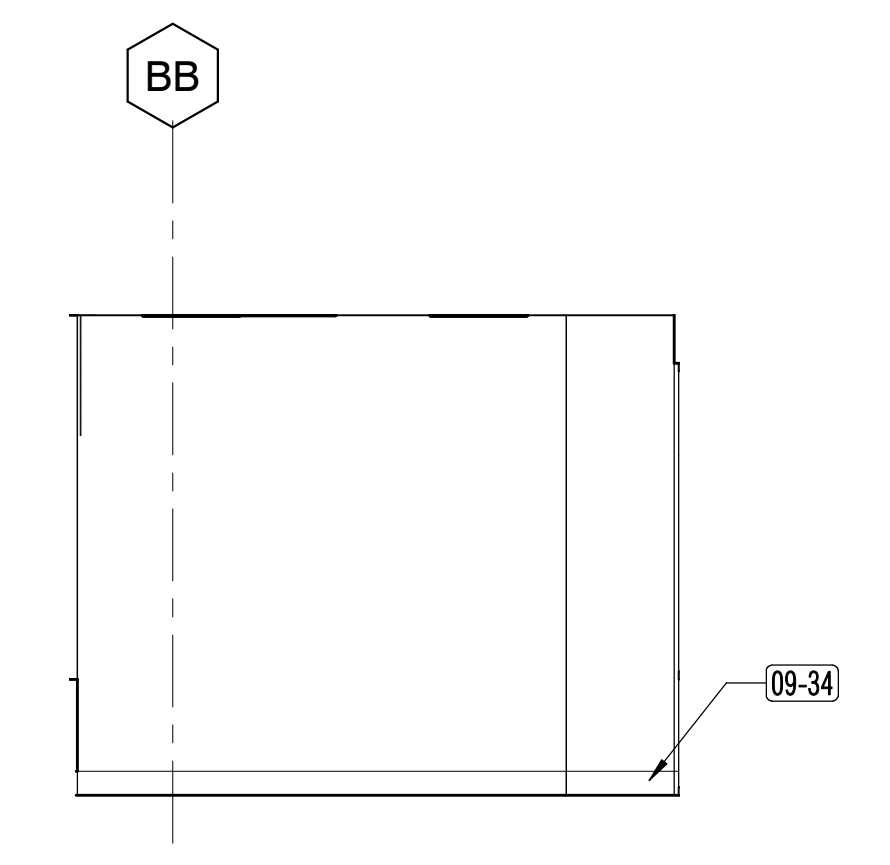
2W



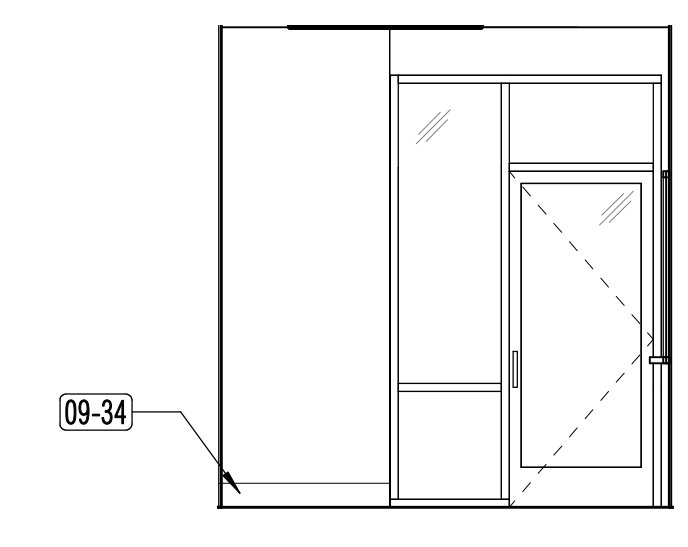
3N
INTERIOR ELEVATION - STUDY ROOM 05
1/4" = 1'-0"



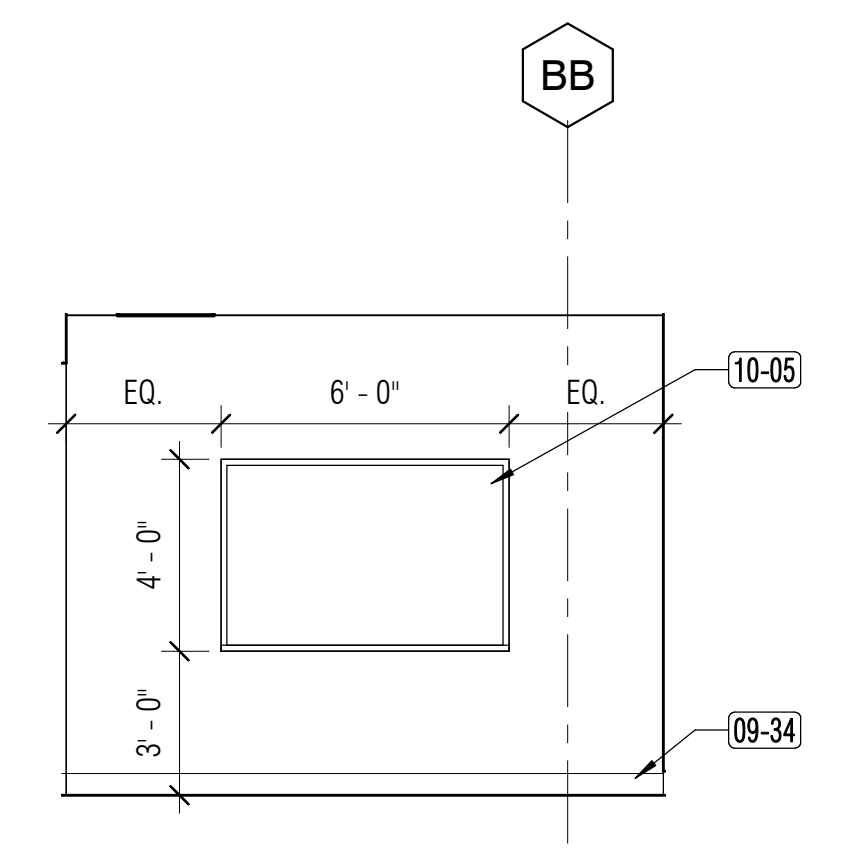
3E



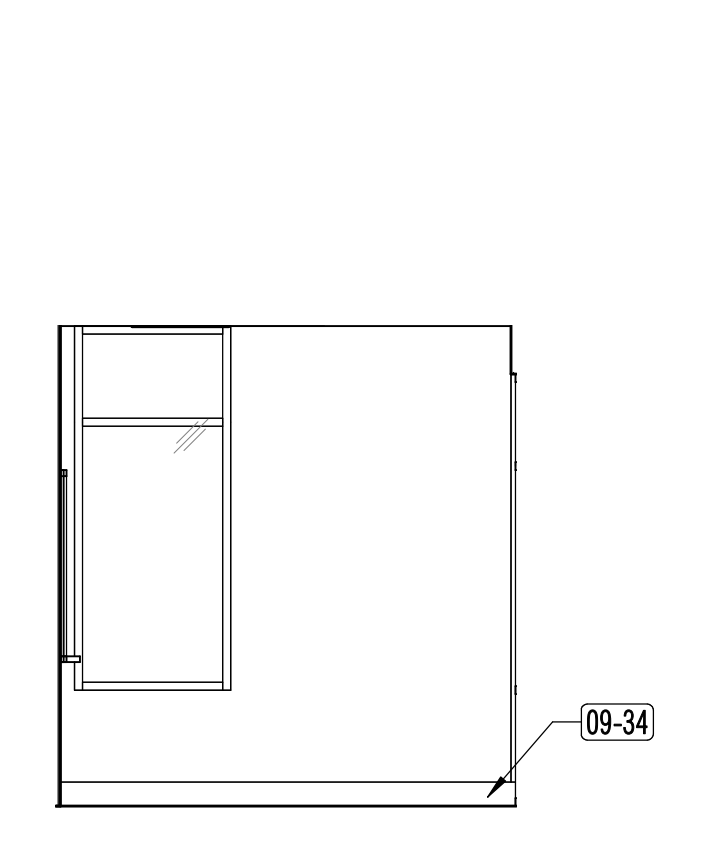
3S



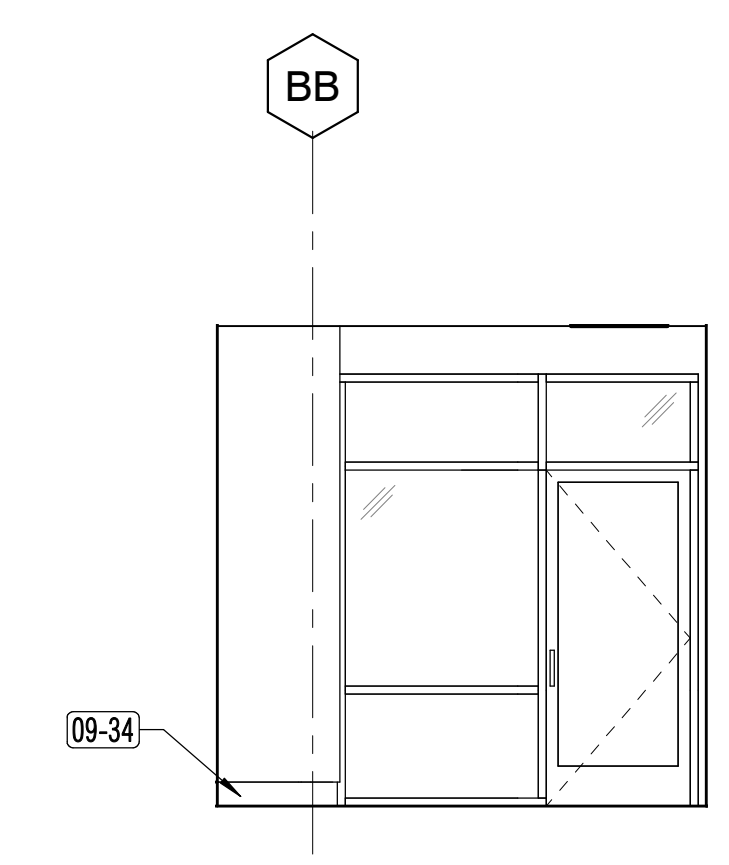
3W



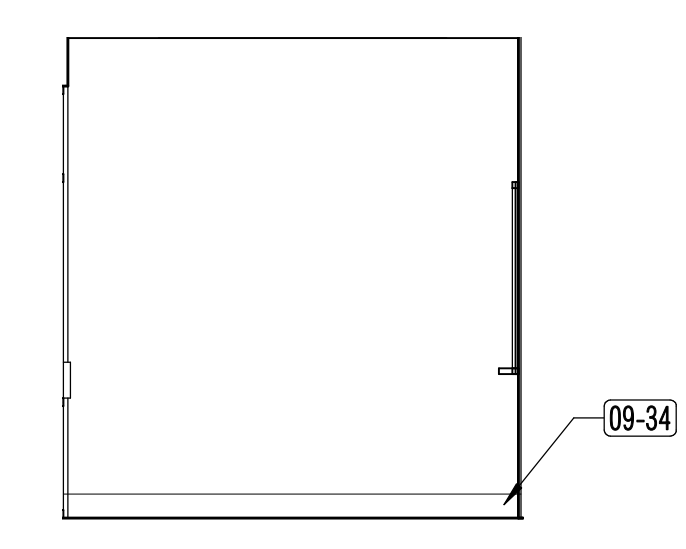
4N
INTERIOR ELEVATION - STUDY ROOM 06
1/4" = 1'-0"



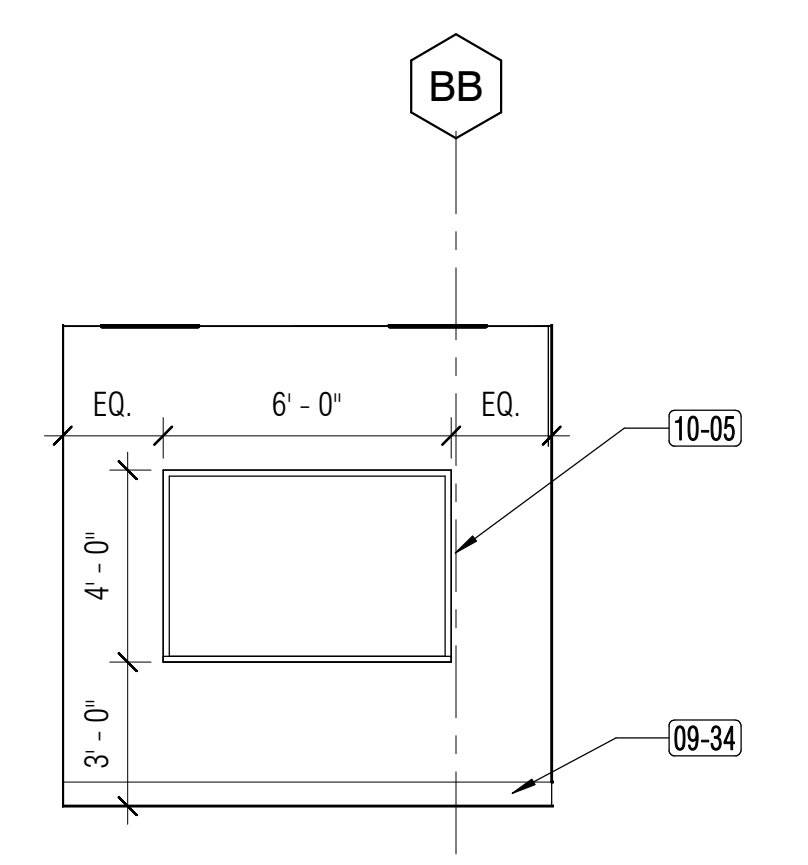
4E



4S



4W



SHEET NOTES

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- REFER TO INTERIOR FINISH SCHEDULE FOR FLOOR, WALL AND CEILING FINISHES.

KEY NOTES

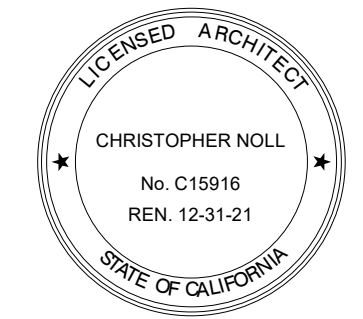
| Key Value | Keynote Text |
|-----------|--------------------------------------|
| 09-34 | (N) WALL BASE AS SCHEDULED |
| 10-05 | MARKERBOARD |
| 12-33 | NEW MANUAL WINDOW SHADES WITH FASCIA |

APPROVALS

NOLL & TAM
 ARCHITECTS

729 Heinz Avenue
 Berkeley, CA 94710
 tel 510.542.2200
 fax 510.542.2201

ARCHITECTS SEAL



PROJECT TITLE

**CONTRA COSTA
 CCD
 D-4002
 DVC SAN RAMON
 CAMPUS EXPANSION &
 RENOVATION**

1690 Watermill Rd.
 San Ramon, CA 94582

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ISSUE TITLE

INCREMENT 2

ISSUE DATE: 5/30/2019

NOLL & TAM JOB NUMBER: 21630

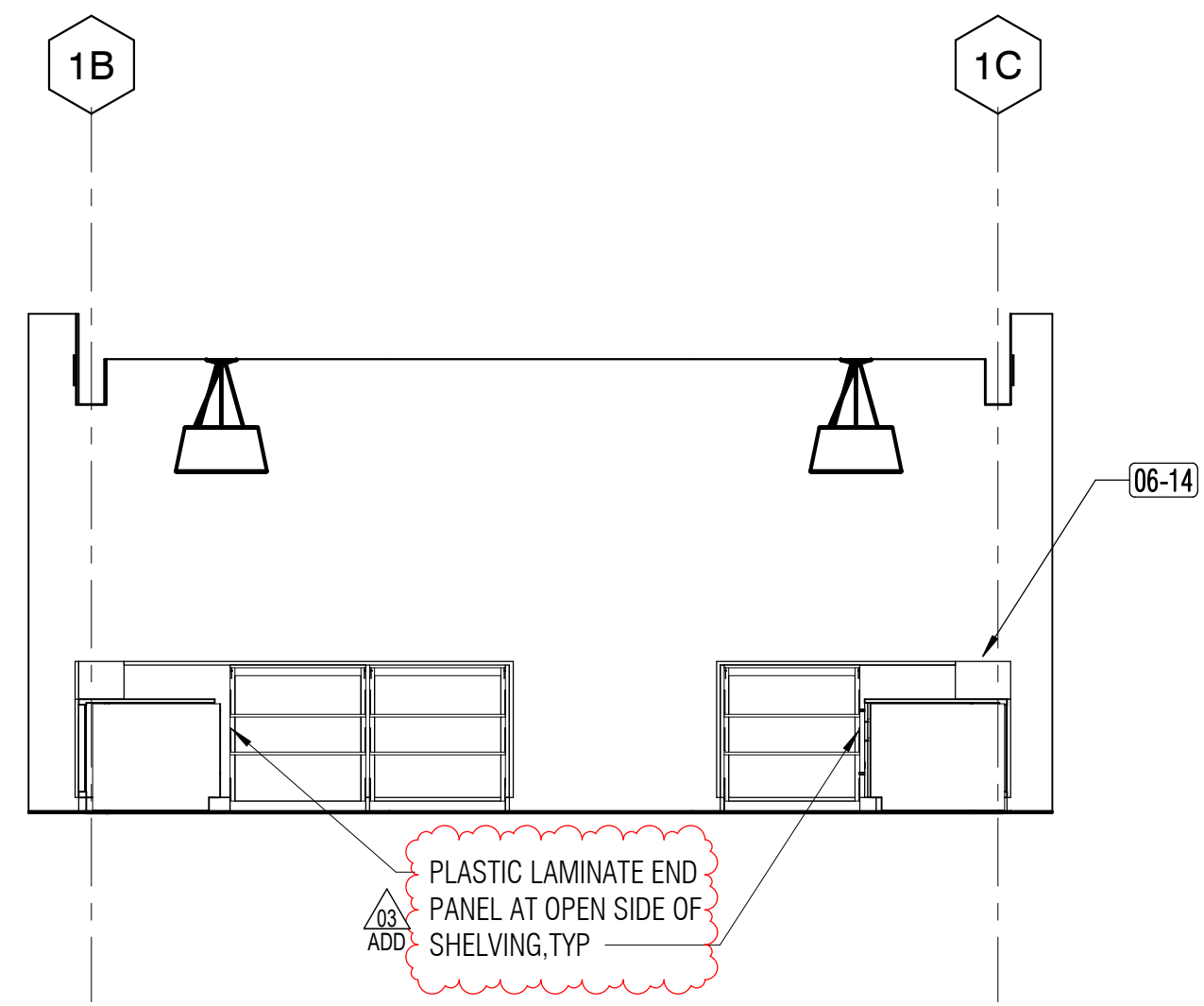
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|-----------|------|-------------|
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SHEET TITLE

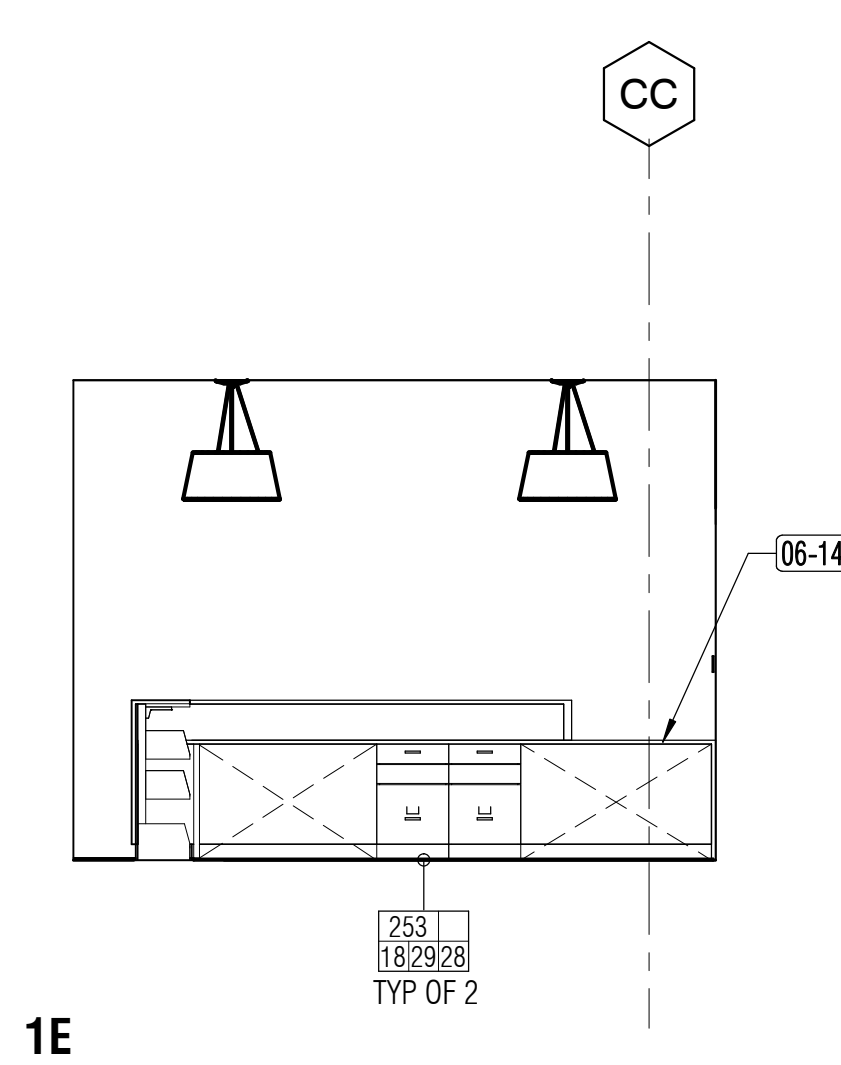
**INTERIOR
 ELEVATIONS -
 LIBRARY LEARNING
 RESOURCE CENTER**

SHEET NUMBER

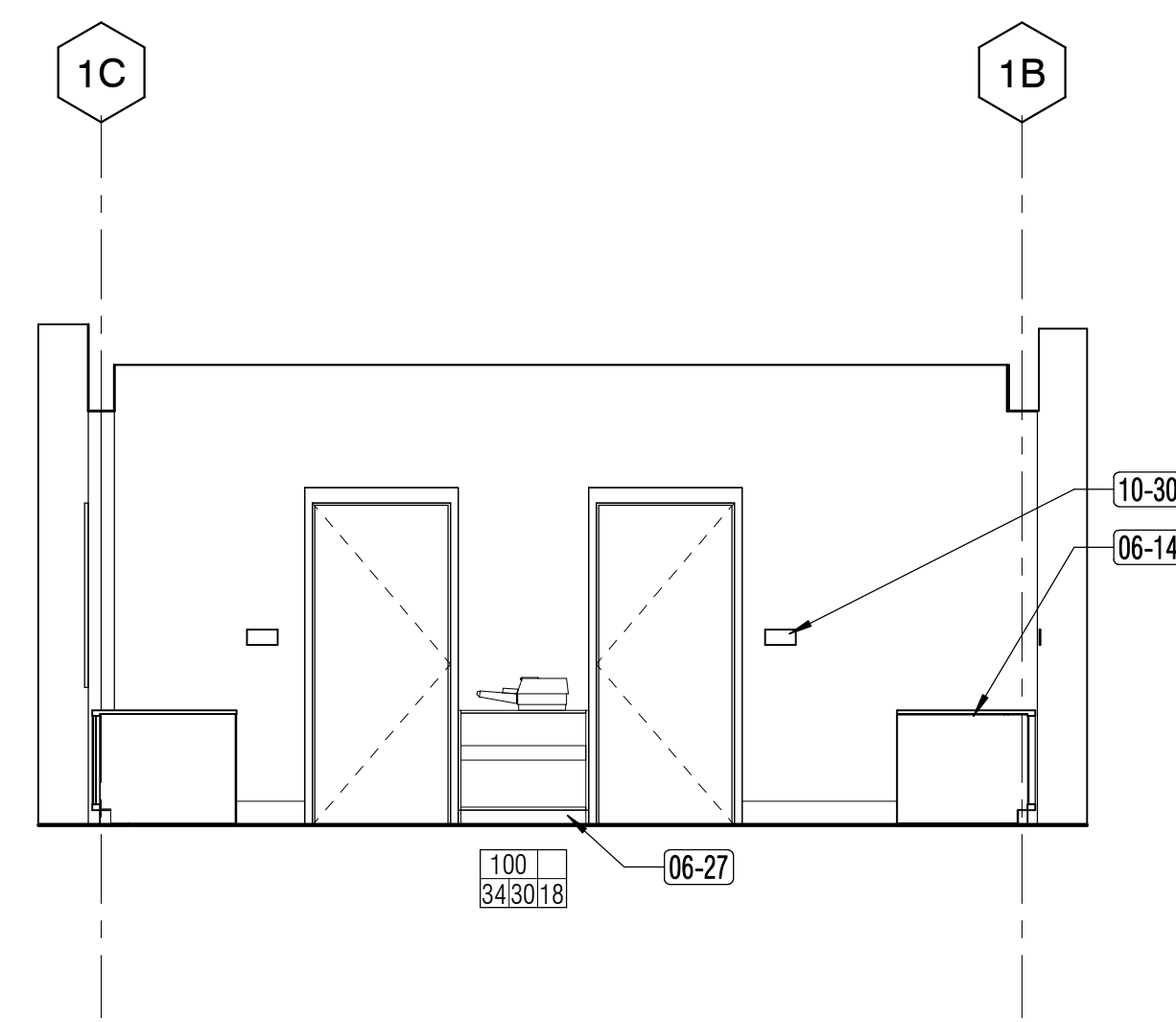
A7.17.2



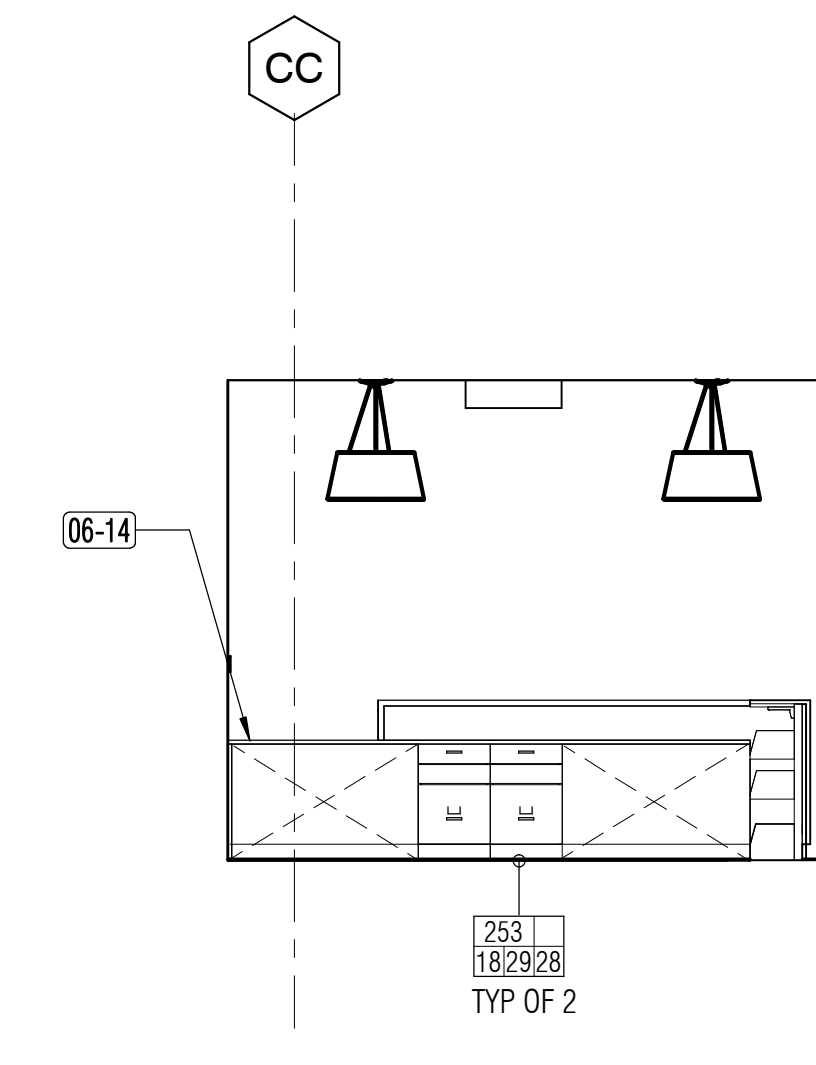
1N
INTERIOR ELEVATION - RECEPTION
 1/4" = 1'-0"



1E



1S
INTERIOR ELEVATION - RECEPTION
 1/4" = 1'-0"



1W

SHEET NOTES

- REFER TO ELECTRICAL, FIRE SPRINKLER, FIRE ALARM, & TECH DRAWINGS FOR MORE INFORMATION AND LOCATIONS OF SWITCHES, RECEPTACLES, DATA OUTLETS AND DEVICES, ETC.
- SEE ACCESSIBILITY DETAILS ON 03.21.0 & ELECTRICAL AND TECH DRAWINGS FOR MOUNTING HEIGHTS INCLUDING BUT NOT LIMITED TO LIGHT SWITCHES, ELECTRICAL RECEPTACLES & DATA OUTLETS, FEC, ACCESSORIES, & EQUIPMENT WITH OPERABLE PARTS, ETC.
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- REFER TO INTERIOR FINISH SCHEDULE FOR FLOOR, WALL AND CEILING FINISHES.

APPROVALS

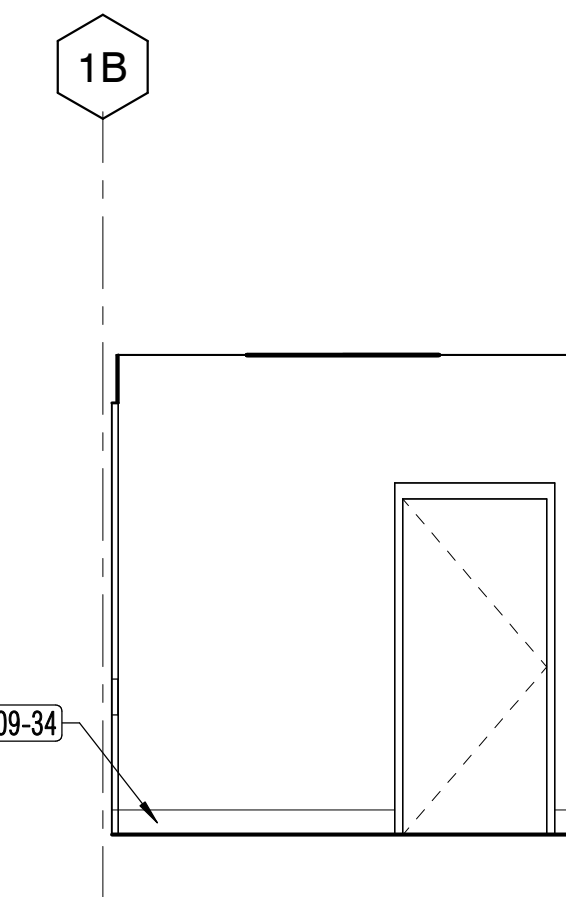
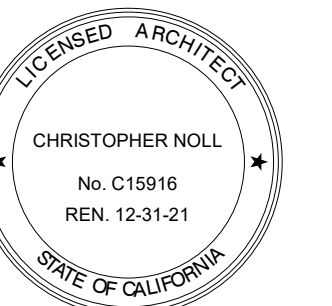
KEY NOTES

| Key Value | Keystone Text |
|-----------|--|
| 06-14 | RECEPTION DESK WITH SOLID SURFACE TOP, WOOD VENEER BASE, CABINETS, WOOD TRIM, AND RESIN PANELS |
| 06-27 | 36" HIGH OPEN WOOD SHELVING |
| 09-34 | (N) WALL BASE AS SCHEDULED |
| 10-05 | MARKERBOARD |
| 10-30 | SIGN AS SCHEDULED |
| 10-37 | NEW HEAVY DUTY METAL STORAGE SHELVING 24" DEEP AND 84" HIGH, WIDTH VARIES. |
| 11-05 | WALL MOUNTED FLAT SCREEN TV, WITH LAPTOP COMPUTER INTERFACE - POWER & DATA, STED |
| 12-33 | NEW MANUAL WINDOW SHADES WITH FASCIA |
| 26-14 | LIGHT FIXTURE AS SCHEDULED, SED |

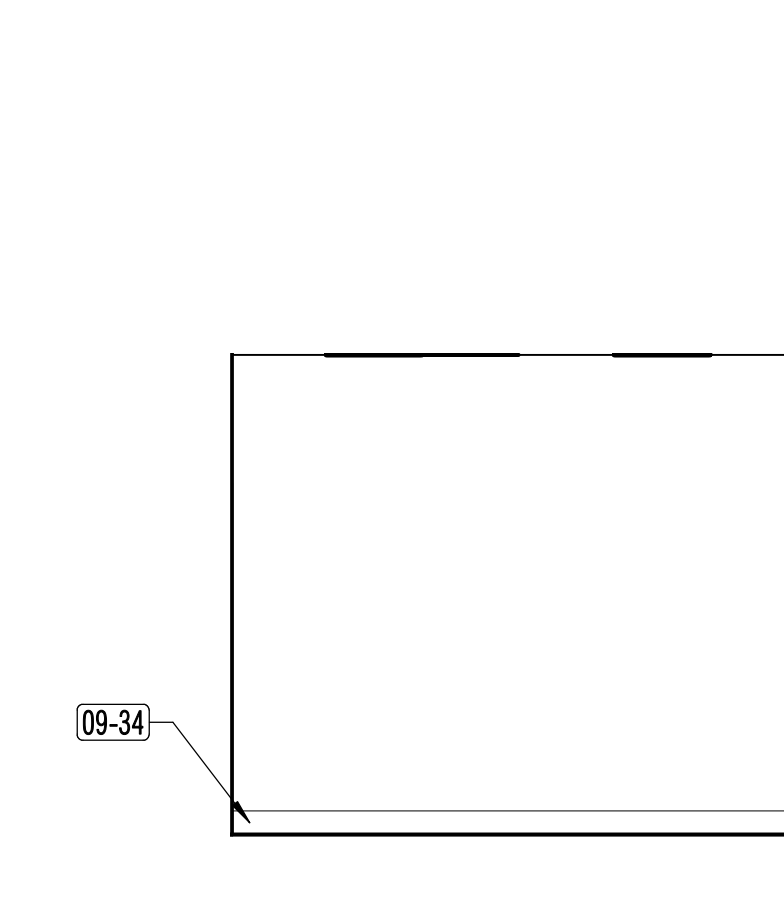
NOLL & TAM ARCHITECTS

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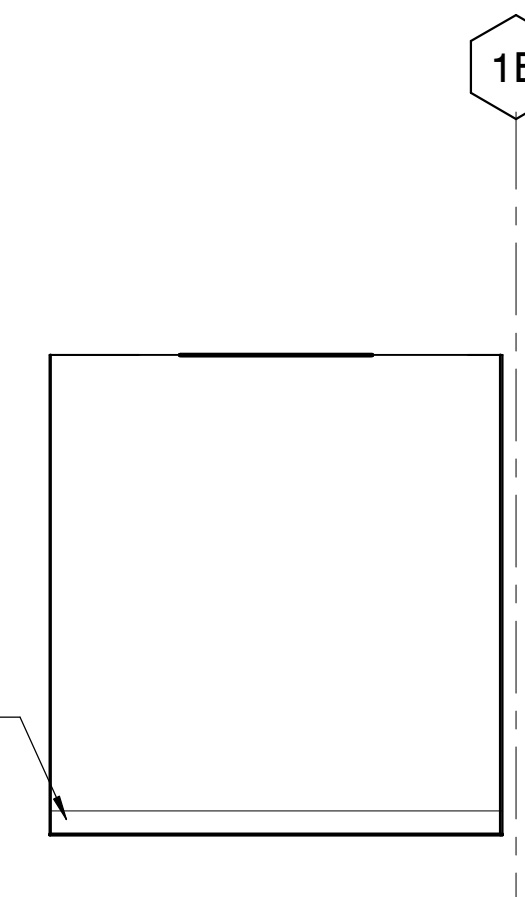
ARCHITECTS SEAL



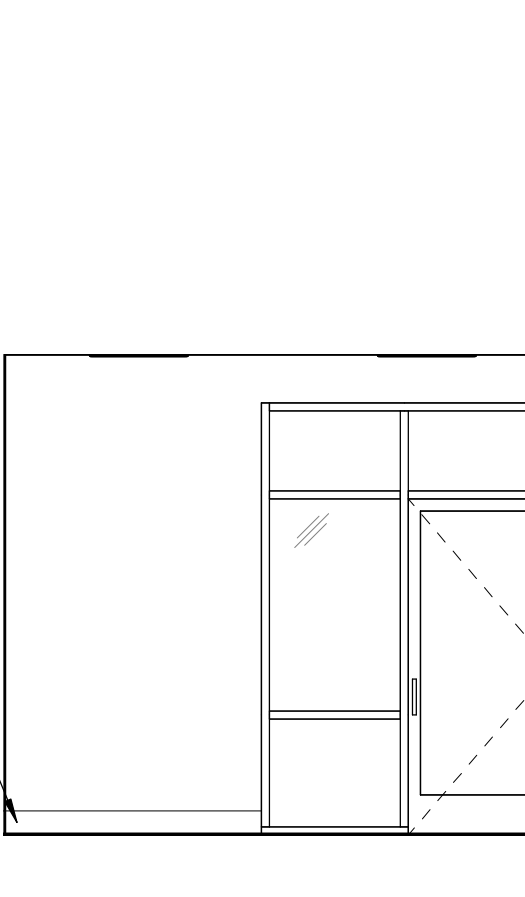
2N
INTERIOR ELEVATION - LIBRARY OFFICE
 1/4" = 1'-0"



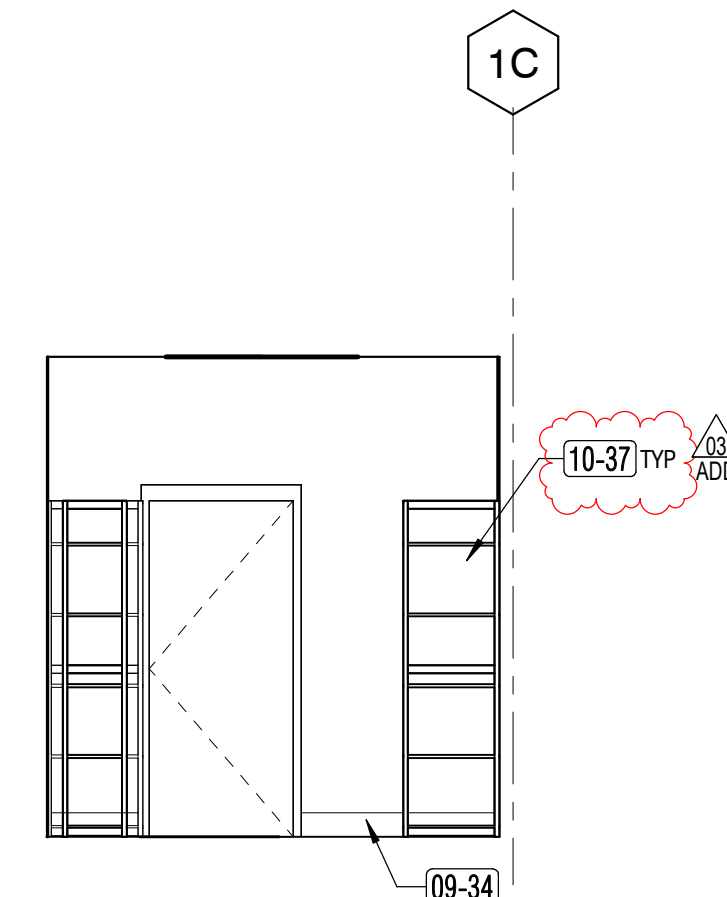
2E



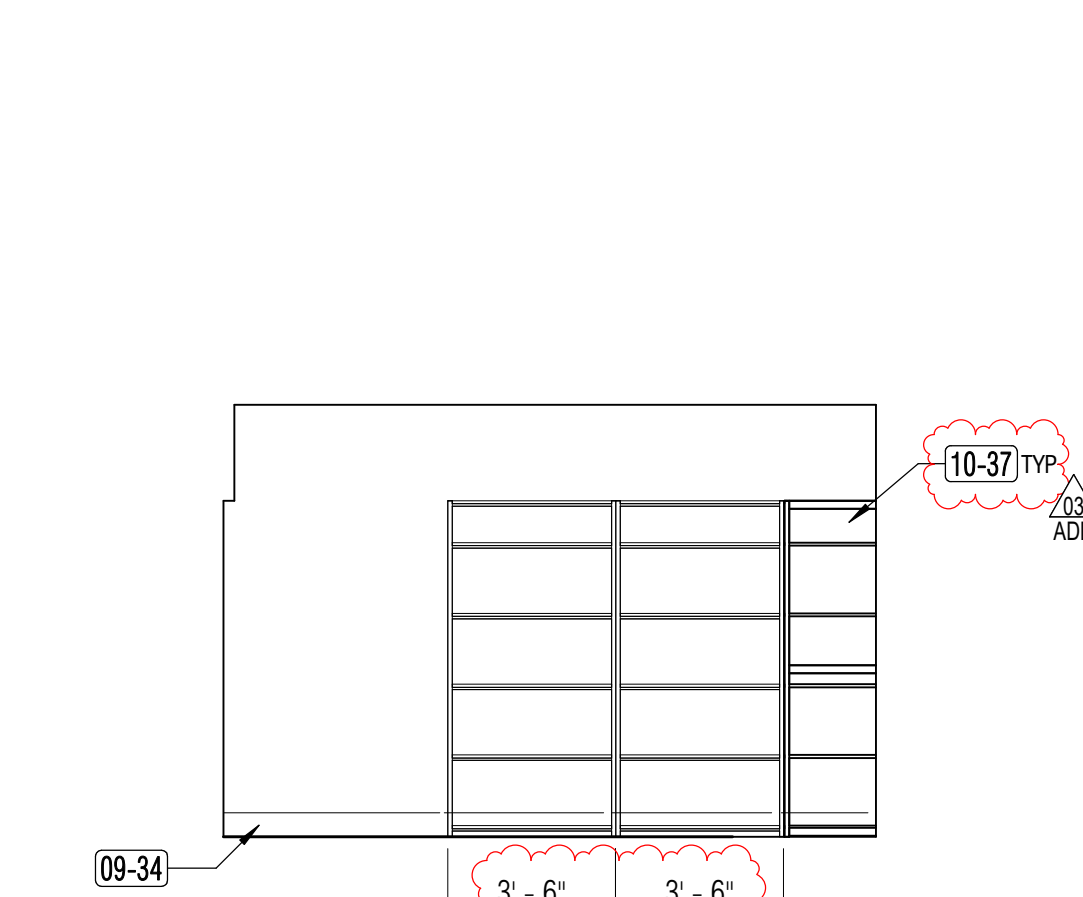
2S
INTERIOR ELEVATION - LIBRARY OFFICE
 1/4" = 1'-0"



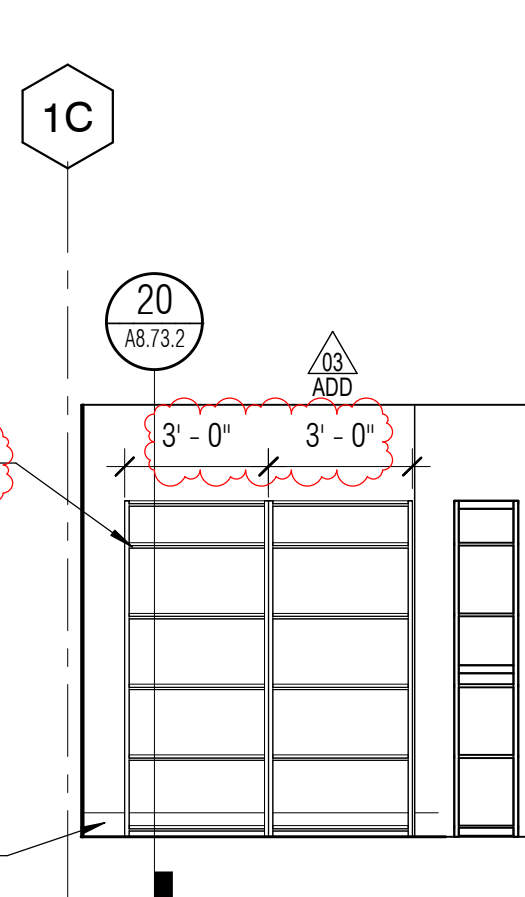
2W



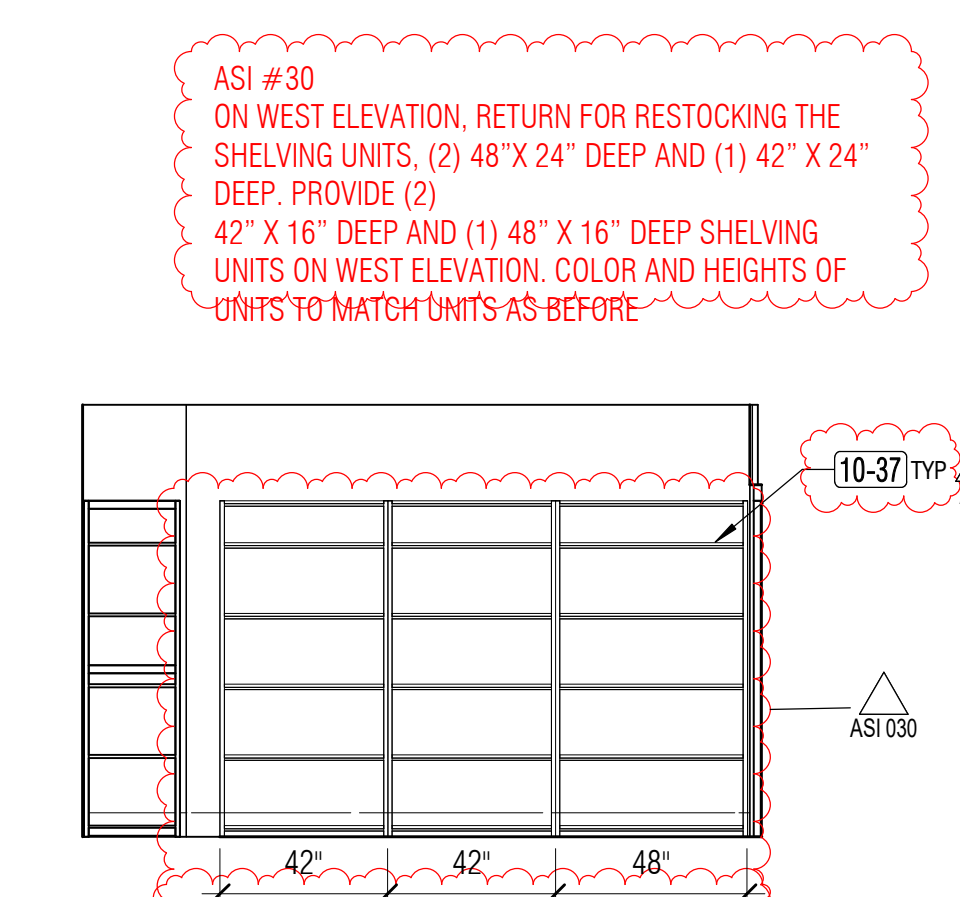
3N
INTERIOR ELEVATION - STORAGE
 1/4" = 1'-0"



3E



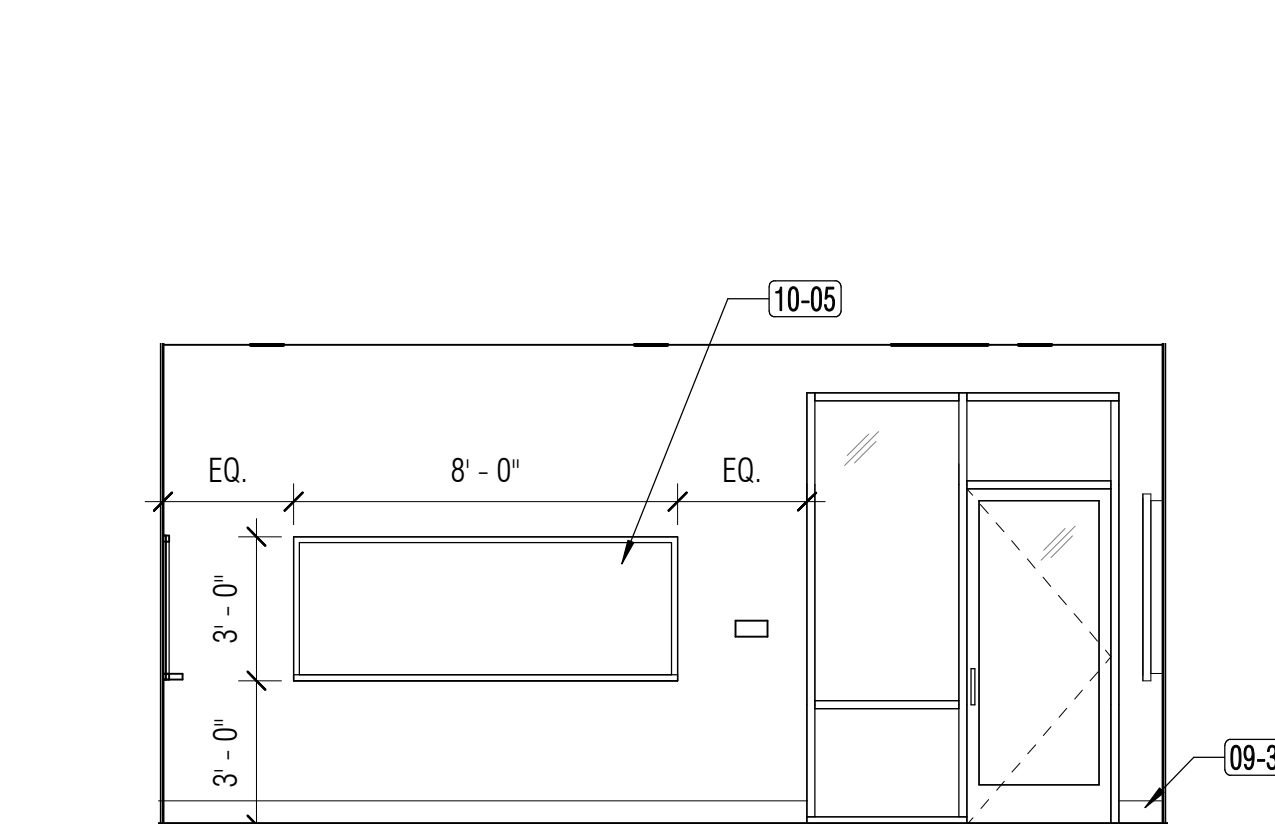
3S
INTERIOR ELEVATION - STORAGE
 1/4" = 1'-0"



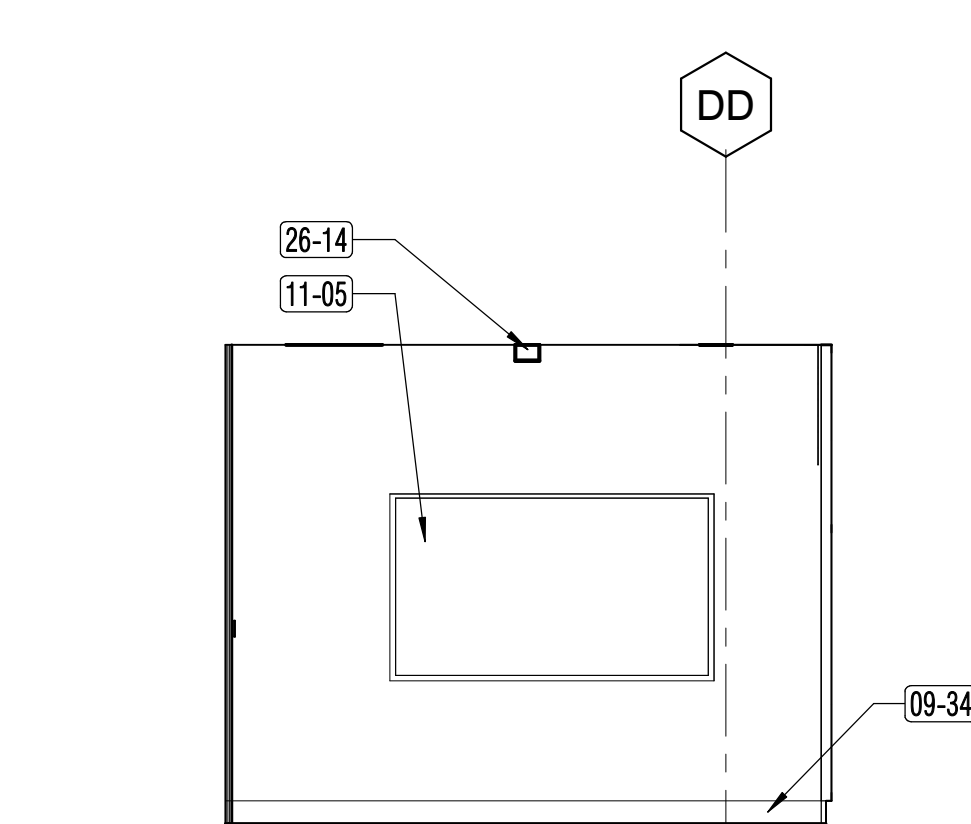
3W

ASI # 30
 ON WEST ELEVATION, RETURN FOR RESTOCKING THE SHELVING UNITS, (2) 48" X 24" DEEP AND (1) 42" X 24" DEEP. PROVIDE (2) 42" X 16" DEEP AND (1) 48" X 16" DEEP SHELVING UNITS ON WEST ELEVATION. COLOR AND HEIGHTS OF UNITS TO MATCH UNITS AS BEFORE.

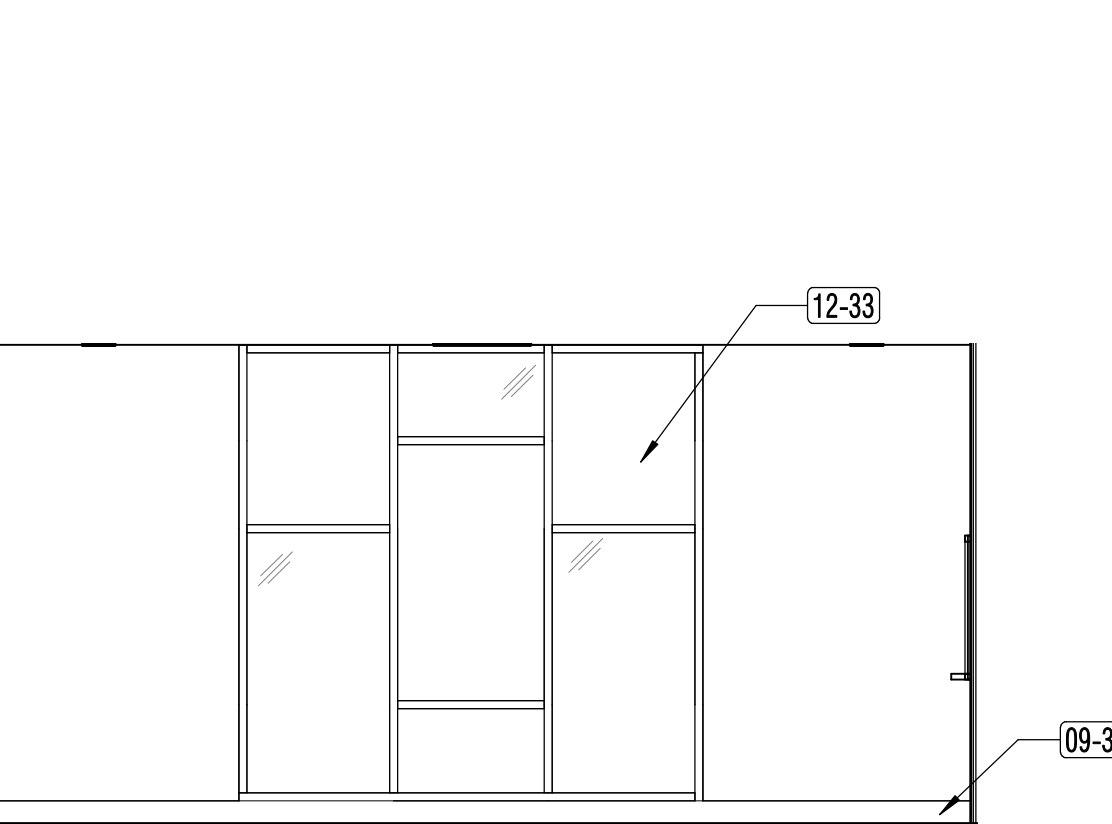
ACTUAL LOCATION TO BE CONFIRMED IN FIELD



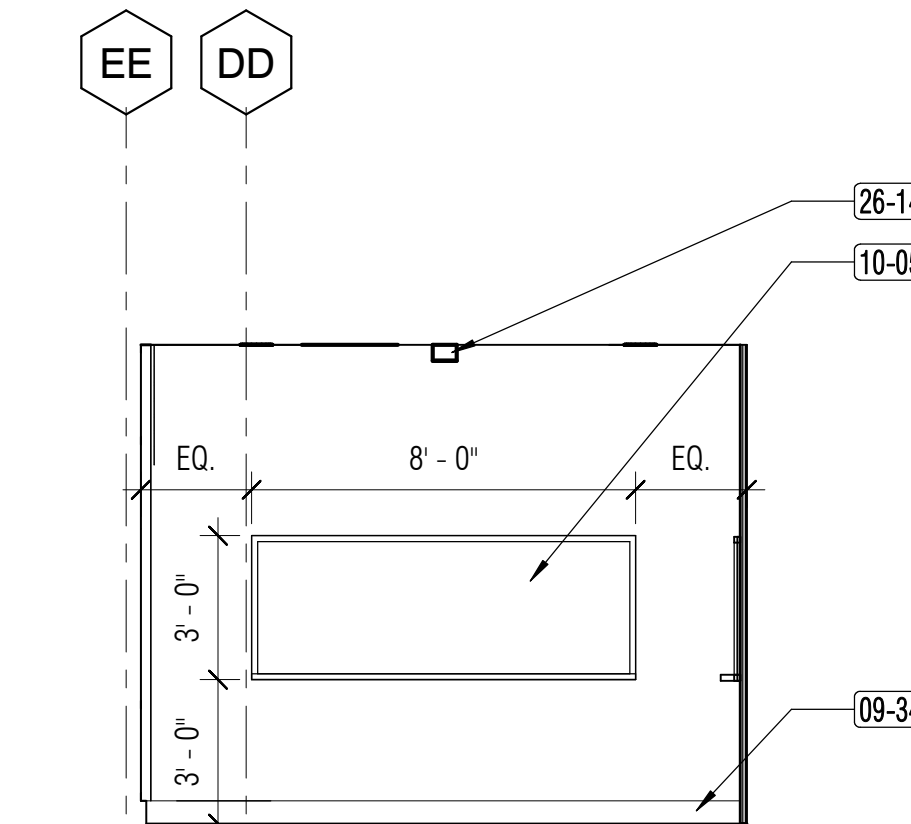
4N
INTERIOR ELEVATION - MEETING ROOM
 1/4" = 1'-0"



4E



4S
INTERIOR ELEVATION - MEETING ROOM SOUTH
 1/4" = 1'-0"



4W

PROJECT TITLE

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 CCD
 D-4002
 DVC SAN RAMON
 CAMPUS EXPANSION &
 RENOVATION**

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ISSUE TITLE

INCREMENT 2

ISSUE DATE 5/30/2019

NOLL & TAM JOB NUMBER 21630

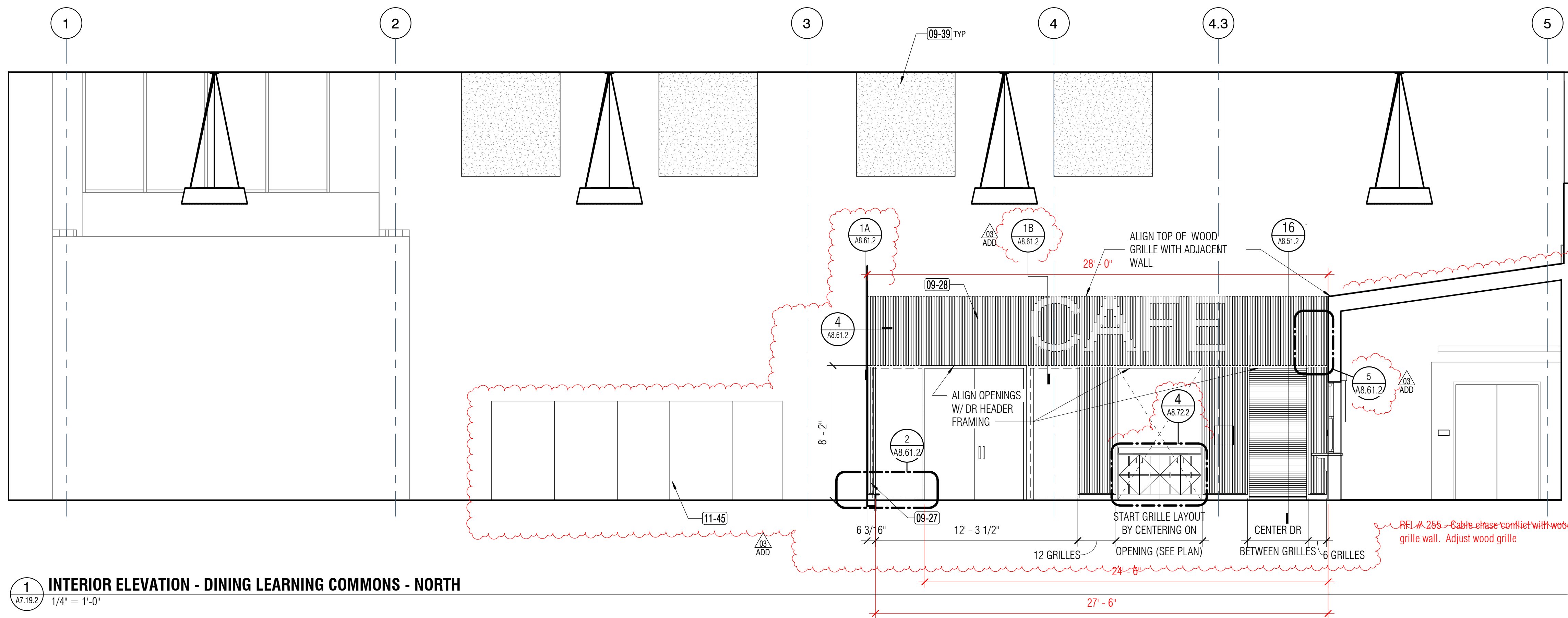
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|-----------|---------|---------------------|
| △ | 8/27/19 | INC 2 - ADDENDUM 03 |
| △ | 4/20/21 | INC 2 ASI 030 |

SHEET TITLE

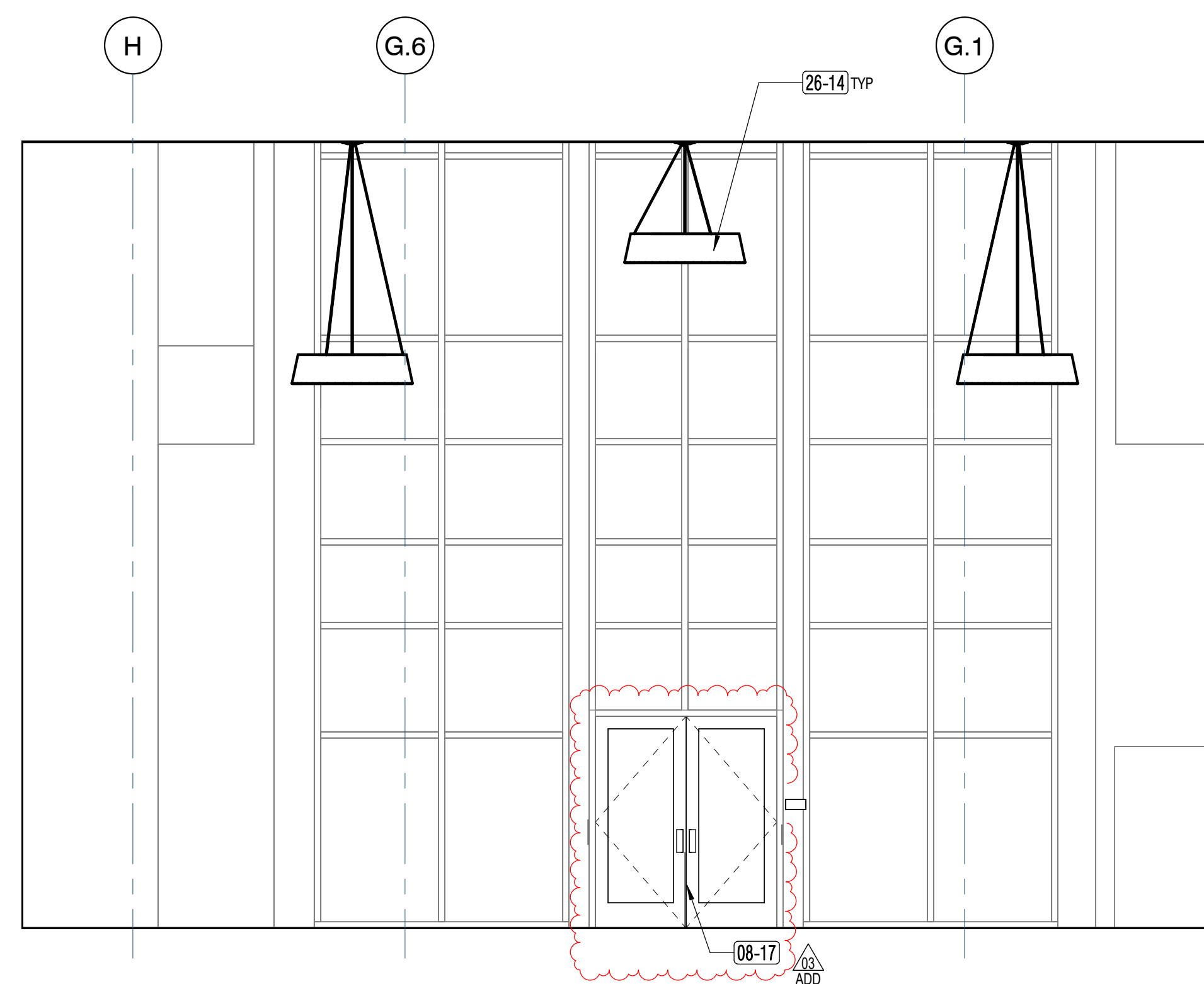
INTERIOR ELEVATIONS - LIBRARY LEARNING RESOURCE CENTER

SHEET NUMBER

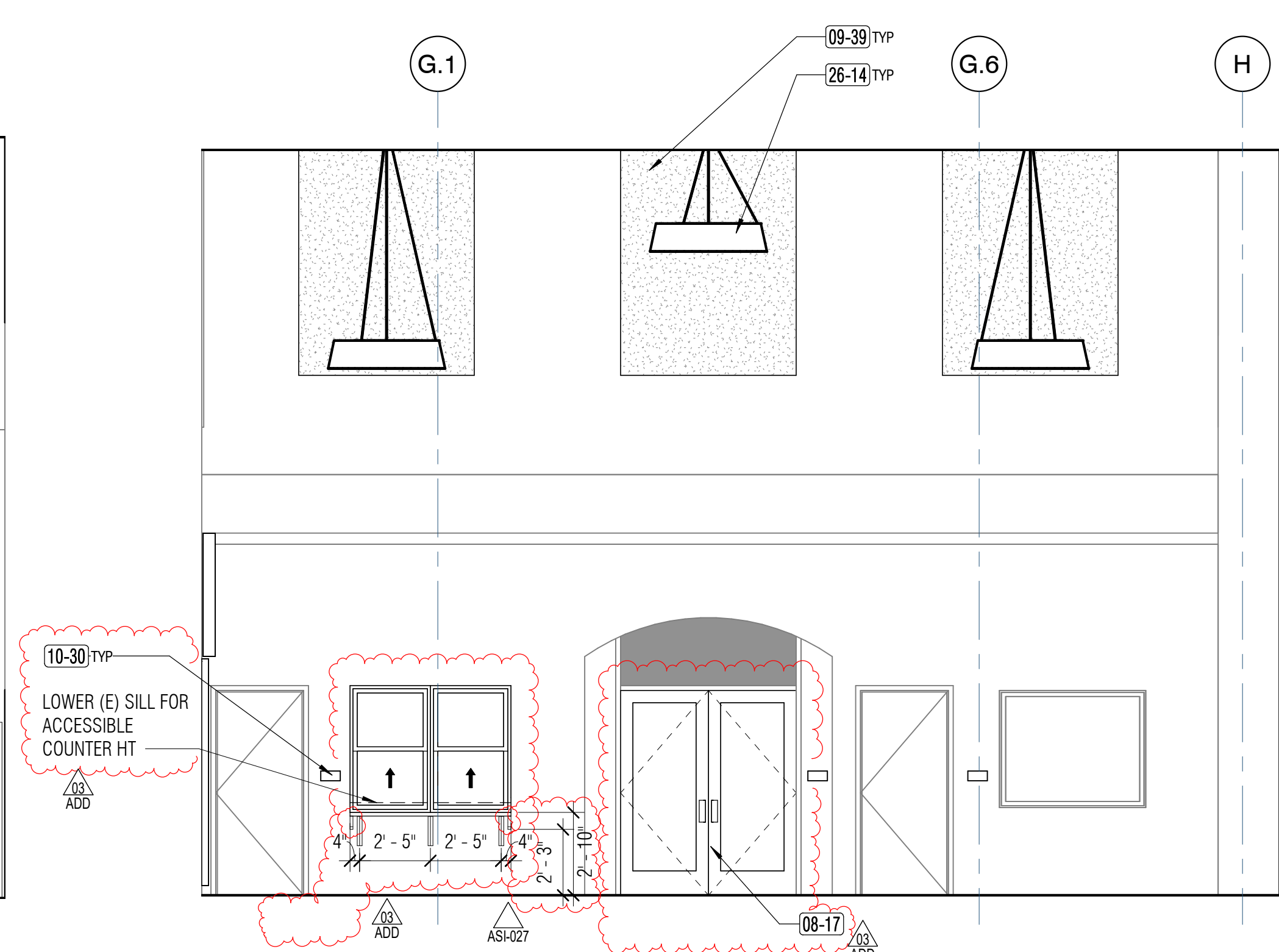
A7.18.2



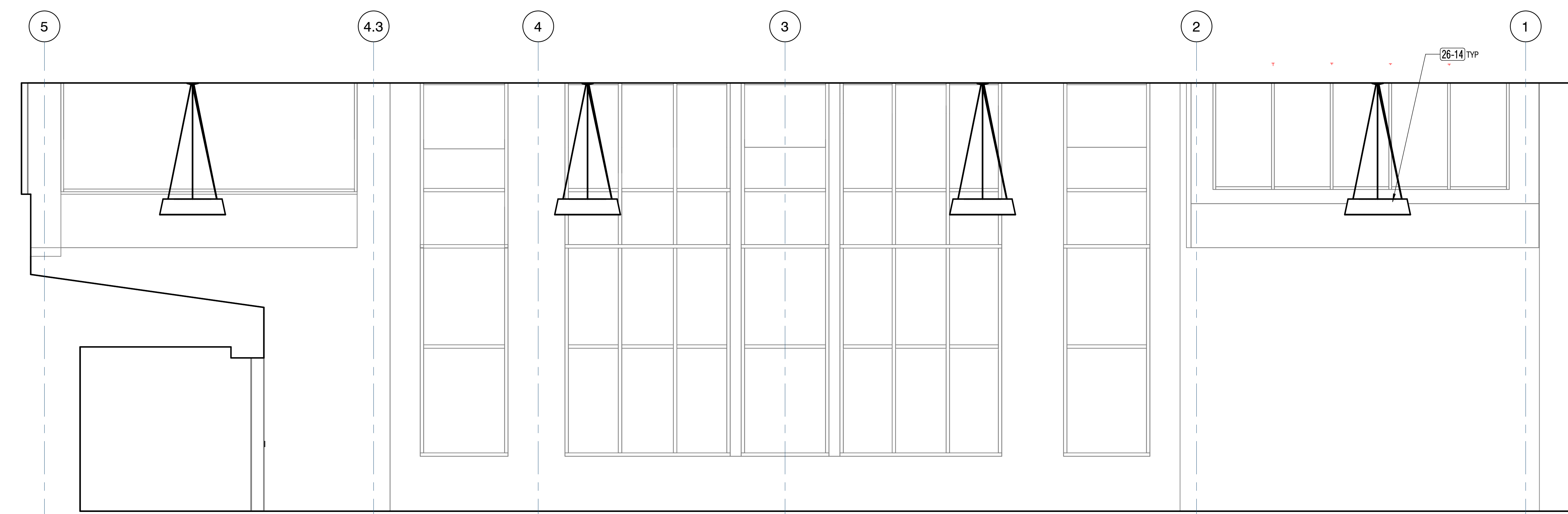
1 A7.19.2
1/4" = 1'-0"
INTERIOR ELEVATION - DINING LEARNING COMMONS - NORTH



2 A7.19.2
1/4" = 1'-0"
INTERIOR ELEVATION - DINING - LEARNING COMMONS - WEST



3 A7.19.2
1/4" = 1'-0"
INTERIOR ELEVATION - DINING - LEARNING COMMONS - EAST



4 A7.19.2
1/4" = 1'-0"
INTERIOR ELEVATION - DINING - LEARNING COMMONS - SOUTH

SHEET NOTES

- REFER TO ELECTRICAL, FIRE SPRINKLER, FIRE ALARM, & TECH DRAWINGS FOR MORE INFORMATION AND LOCATIONS OF SWITCHES, RECEPTACLES, DATA OUTLETS AND DEVICES, ETC.
- SEE ACCESSIBILITY DETAILS ON G3.21.0 & ELECTRICAL AND TECH DRAWINGS FOR MOUNTING HEIGHTS INCLUDING BUT NOT LIMITED TO LIGHT SWITCHES, ELECTRICAL RECEPTACLES & DATA OUTLETS, FCC, ACCESSORIES, & EQUIPMENT WITH OPERABLE PARTS, ETC.
- REFER TO FOOD SERVICE DRAWINGS FOR ADDITIONAL INFORMATION ON CASEWORK.
- REFER TO INTERIOR FINISH SCHEDULE FOR FLOOR, WALL AND CEILING FINISHES.

KEY NOTES

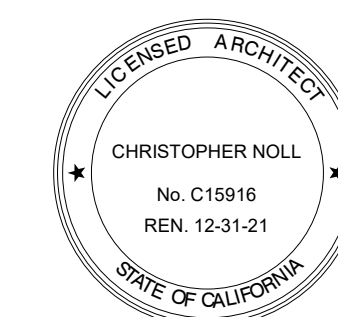
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|-----------|---|
| 08-17 | (N) STOREFRONT DOOR IN (E) FRAME |
| 09-27 | NEW WALL MOUNTED WOOD GRILLE, 1 3/8" x 1 3/8", NO FABRIC. |
| 09-28 | NEW WALL MOUNTED WOOD GRILLE, 5 1/4" x 1 3/8", NO FABRIC. AT CAFE GRAPHIC REDUCE DEPTH TO FORM LETTERS. SEE DETAILS. |
| 09-39 | WALL INFILL AT EXISTING FRAMED OPENING. ALIGN FINISH FACE TO EXISTING ADJACENT |
| 10-30 | SIGN AS SCHEDULED |
| 11-45 | NEW VENDING MACHINES (OFOI) - BOOKSTORE SUPPLY - DRY GOODS - COFFEE - REFRIGERATED FRESH GOODS, REFRIGERATED BEVERAGES AND MICROWAVE. CONTRACTOR TO PROVIDE (6) 20 AMP POWER AND 1/2" WATER LINE FOR COFFEE MACHINE. 40" MAX TO OPERABLE PARTS. OWNER VENDING INSTALLATION TO REFER TO DET A-22/FSS.1.2 AND B-2/FSS.1.2 FOR ANCHORAGE TO FLOOR AND WALL. BLOCKING TO BE FINISHED BY CONTRACTOR. |
| 26-14 | LIGHT FIXTURE AS SCHEDULED. SED |

APPROVALS

NOLL & TAM ARCHITECTS

729 Heinz Avenue
Berkeley, CA 94710
tel 510.542.2200
fax 510.542.2201

ARCHITECTS SEAL



PROJECT TITLE

**CONTRA COSTA
CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION &
RENOVATION**

1690 Watermill Rd.
San Ramon, CA 94582

RECORD SET:

THESE DRAWINGS HAVE BEEN PREPARED FROM ADDENDUMS, CCD'S, ASIS AND SELECT RFI'S OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM. ONLY A SELECT FEW AS-BUILTS WERE SUBMITTED.

ISSUE TITLE

INCREMENT 2

ISSUE DATE 5/30/2019

NOLL & TAM JOB NUMBER 21630

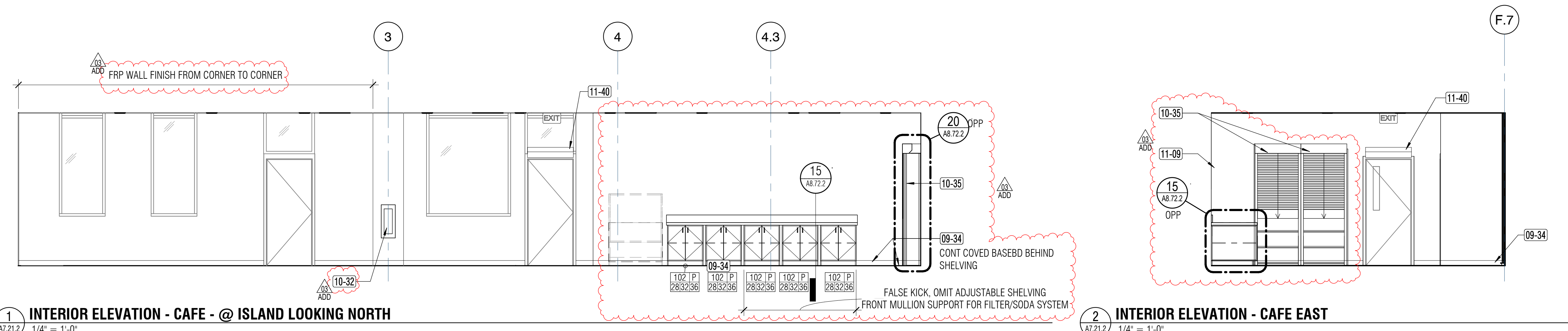
| REVISIONS | DATE | DESCRIPTION |
|-----------|-------------------------|-------------|
| 8/27/19 | INC 2 - ADDENDUM 03 | |
| 10/15/19 | INC 2 - ADDENDUM 03 REV | |
| 3/5/21 | ASI 027 | |

SHEET TITLE

INTERIOR ELEVATIONS - LEARNING COMMONS

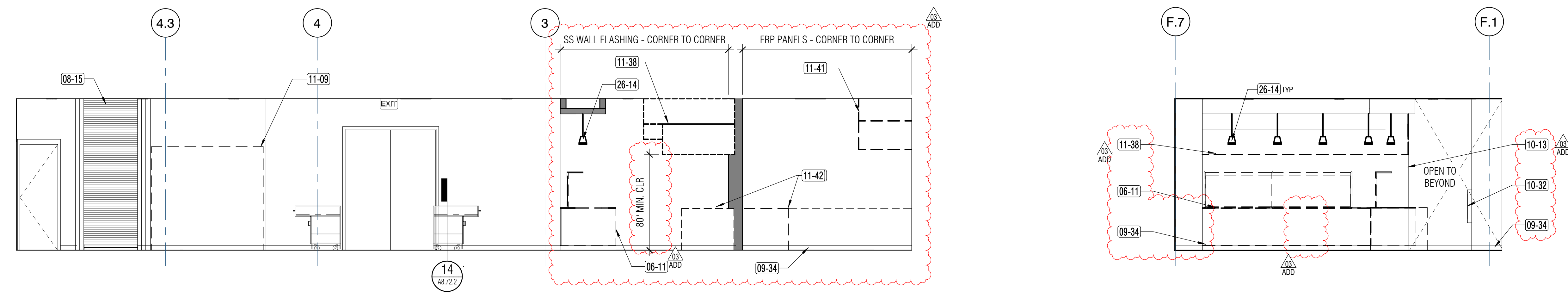
SHEET NUMBER

A7.19.2



1 INTERIOR ELEVATION - CAFE - @ ISLAND LOOKING NORTH
A7.21.2 1/4" = 1'-0"

2 INTERIOR ELEVATION - CAFE EAST
A7.21.2 1/4" = 1'-0"



3 INTERIOR ELEVATION - CAFE SOUTH
A7.21.2 1/4" = 1'-0"

4 INTERIOR ELEVATION - CAFE WEST
A7.21.2 1/4" = 1'-0"

SHEET NOTES

- REFER TO ELECTRICAL, FIRE SPRINKLER, FIRE ALARM, & TECH DRAWINGS FOR MORE INFORMATION AND LOCATIONS OF SWITCHES, RECEPTACLES, DATA OUTLETS AND DEVICES, ETC.
- SEE ACCESSIBILITY DETAILS ON G3.21.0 & ELECTRICAL AND TECH DRAWINGS FOR MOUNTING HEIGHTS INCLUDING BUT NOT LIMITED TO LIGHT SWITCHES, ELECTRICAL RECEPTACLES & DATA OUTLETS, FEC, ACCESSORIES, & EQUIPMENT WITH OPERABLE PARTS, ETC.
- REFER TO FOOD SERVICE DRAWINGS FOR ADDITIONAL INFORMATION ON CASEWORK.
- REFER TO INTERIOR FINISH SCHEDULE FOR FLOOR, WALL AND CEILING FINISHES.
- WHERE FRP OCCURS, RETURN FRP INTO OPENINGS TO F.O. (E) WINDOW JAMB. COORDINATE PANEL JOINT LAYOUT WITH (E) WINDOW OPENINGS.

KEY NOTES

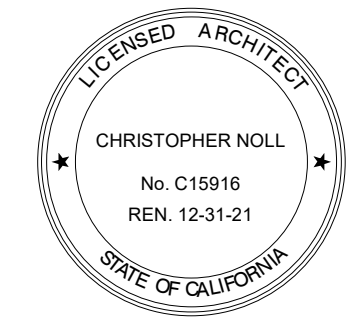
| KEYNOTE LEGEND | |
|----------------|---|
| Key Value | Keynote Text |
| 06-11 | NEW CUSTOM BUILT SERVERY-PREP CASEWORK - SOLID SURFACE COUNTERTOP, PLASTIC LAMINATE PANELING, CUTOUT IN COUNTERTOP FOR SERVERY DROP IN PANS WHERE OCCURS. SNEEZEGUARD WITH INTEGRAL LIGHTING, HEAT LAMP, POWER, UTILITY CONNECTIONS AS REQUIRED |
| 08-15 | MOTORIZED ROLL-UP DOOR - ALUM - FACE MOUNTED GUIDERAILS |
| 09-34 | (N) WALL BASE AS SCHEDULED |
| 10-13 | CORNER WALL PROTECTION |
| 10-32 | (N) SEMI RECESSED FIRE EXTINGUISHER CABINET w/ TYPE K EXTINGUISHER, 6L MIN. LOCATED MAX. 30' FROM COOKING APPLIANCES |
| 10-35 | NEW METAL 4-POST SHELVING WITH SECURITY ROLL-DOWN SHUTTER AND END PANELS. 8 SHELVES PER UNIT. EACH UNIT TO BE 36"W x 12"D x 88"H IN QUANTITY SHOWN |
| 11-09 | NEW REFRIGERATED DISPLAY FOOD CASE, SED, SPD FOR ELECTRICAL AND PLUMBING REQUIREMENTS. SEE FOOD SERVICE DWGS |
| 11-38 | KITCHEN EXHAUST HOOD, SEE FOOD SERVICE DRAWINGS, SMD, SSD, SEE 4/ST.01.2 FOR STRUCTURAL FRAMING FOR MOUNTING OF HOODS |
| 11-40 | AIR CURTAIN, SEE FOOD SERVICE DRAWINGS |
| 11-41 | DISHWASHER EXHAUST HOOD, SEE FOOD SERVICE DRAWINGS |
| 11-42 | FOR FOOD SERVICE EQUIPMENT INFORMATION, SEE FOOD SERVICE DRAWINGS |
| 26-14 | LIGHT FIXTURE AS SCHEDULED, SED |

APPROVALS

NOLL & TAM ARCHITECTS

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ISSUE TITLE

INCREMENT 2

ISSUE DATE 5/30/2019

NOLL & TAM JOB NUMBER 21630

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|-----------|----------|-------------------------|
| △ | 8/27/19 | INC 2 - ADDENDUM 03 |
| | 10/15/19 | INC 2 - ADDENDUM 03 REV |

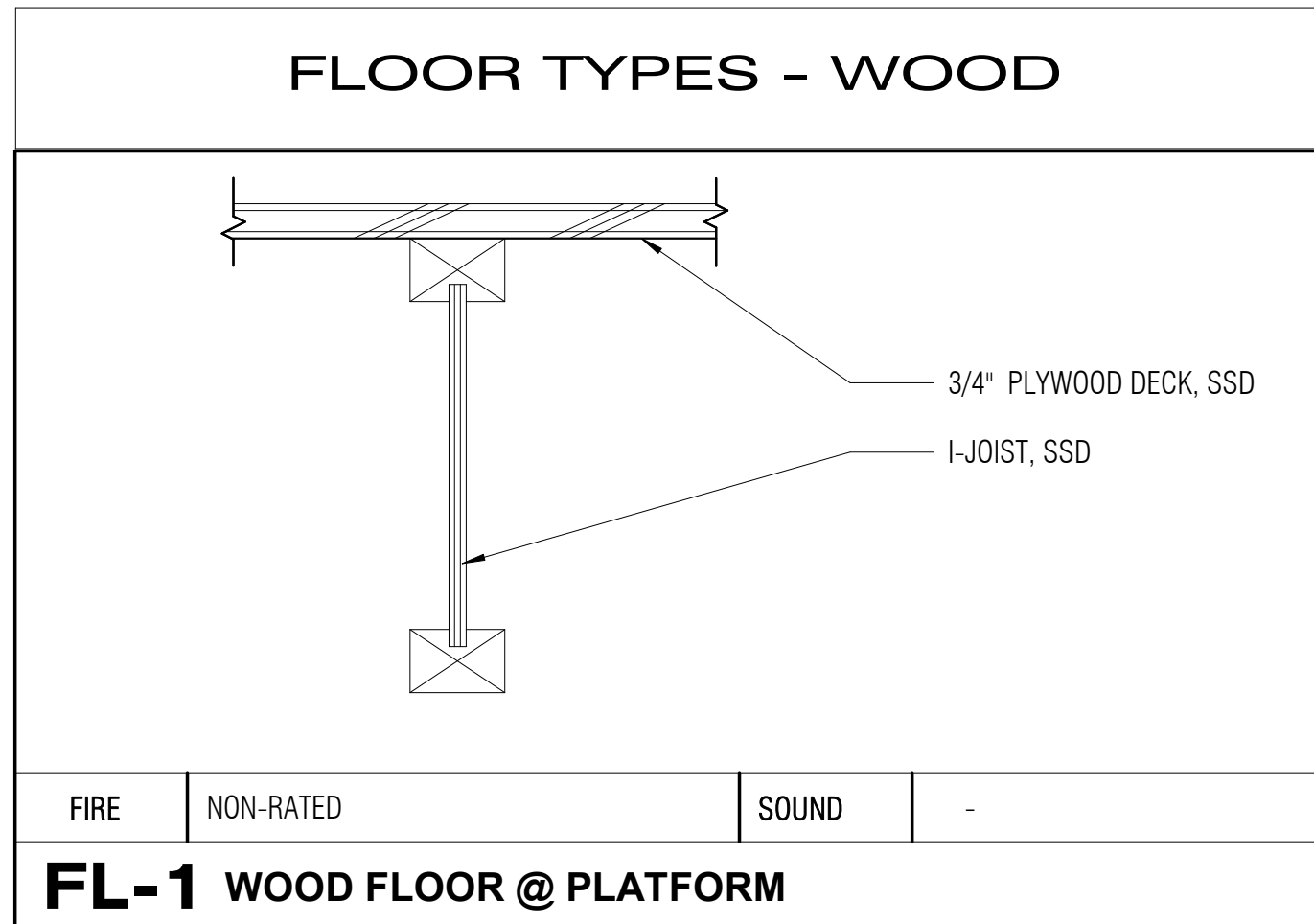
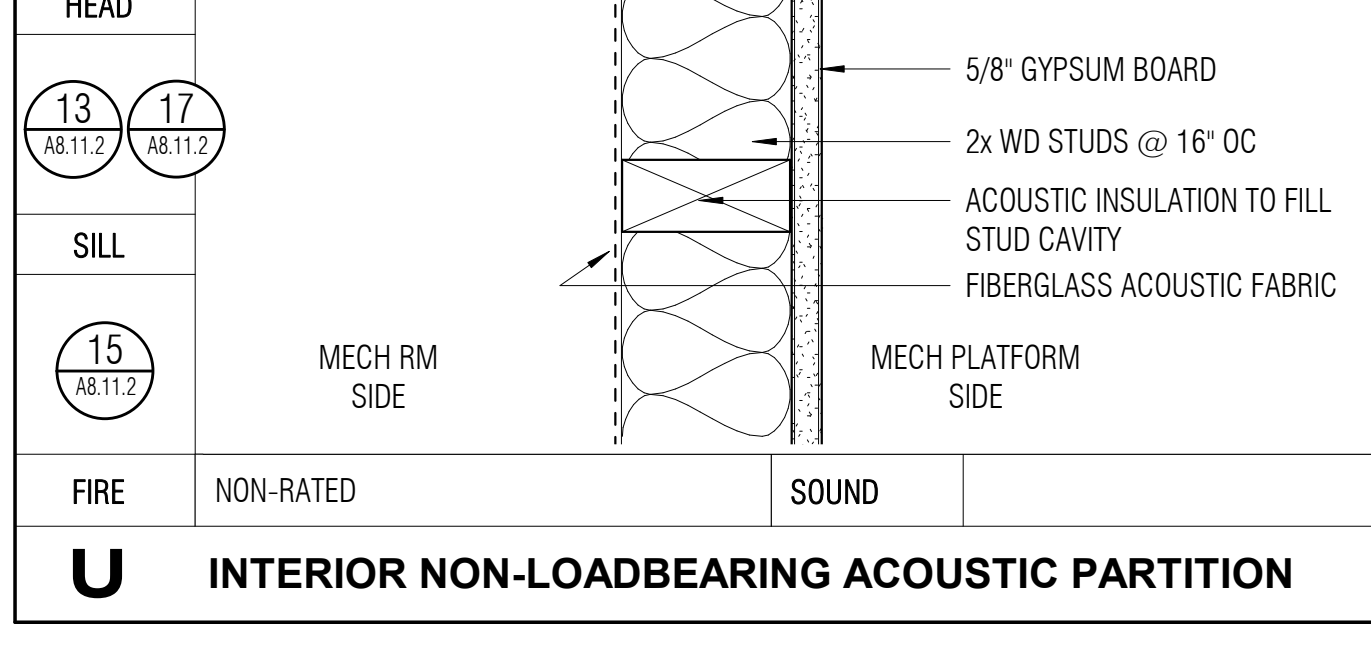
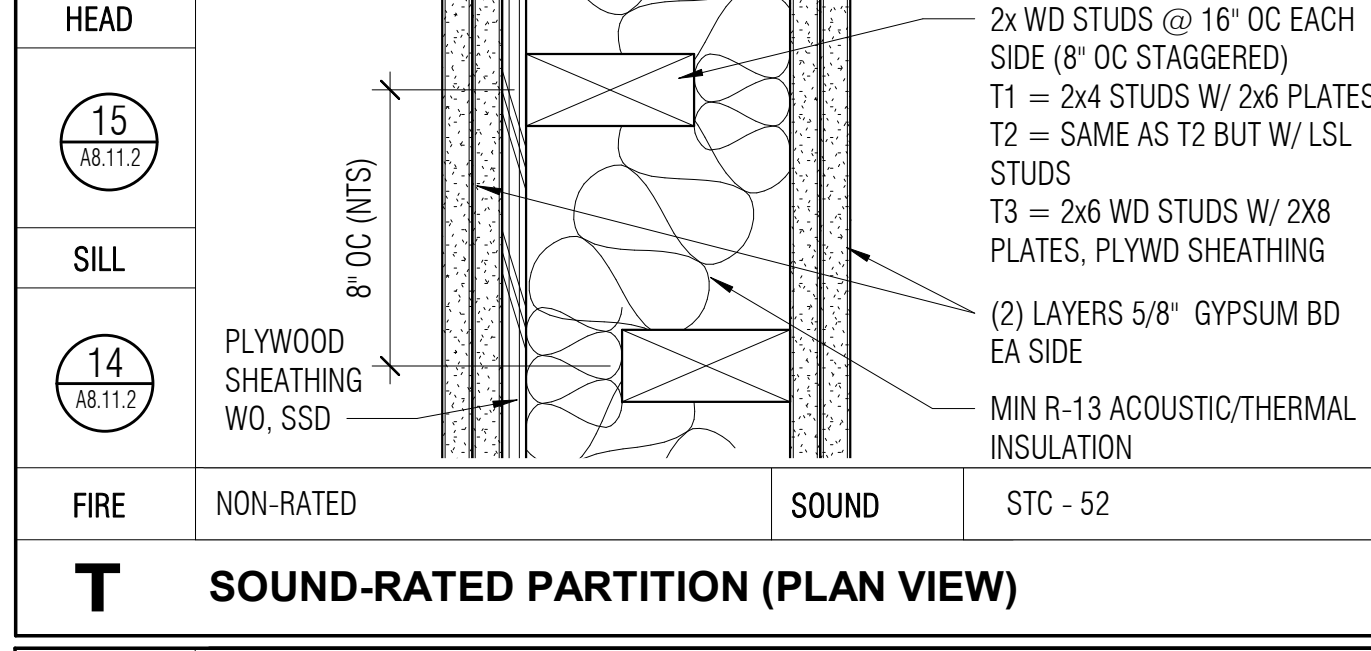
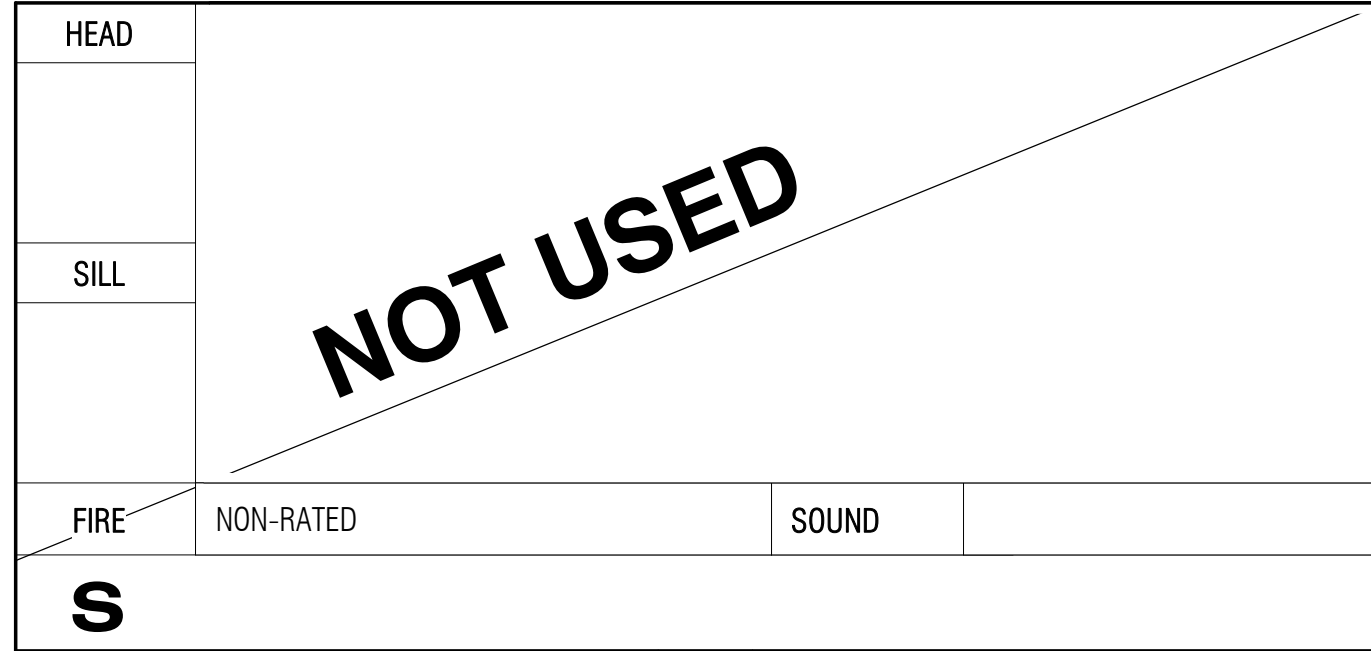
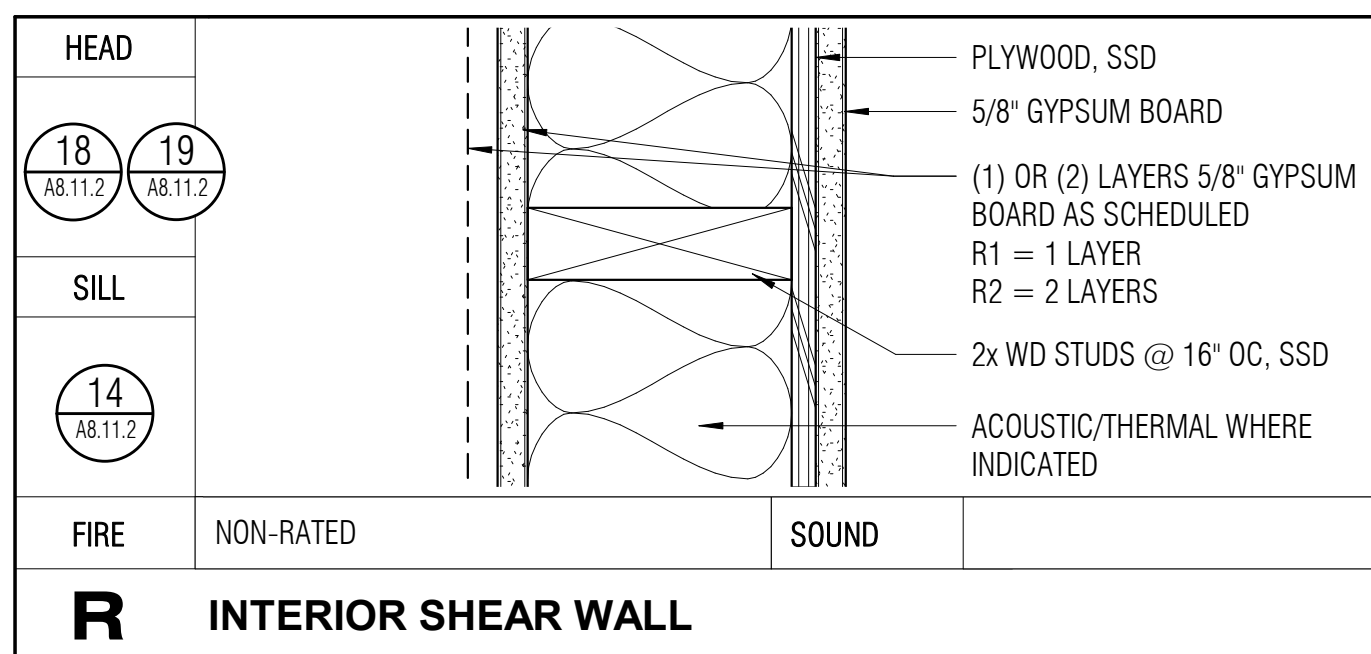
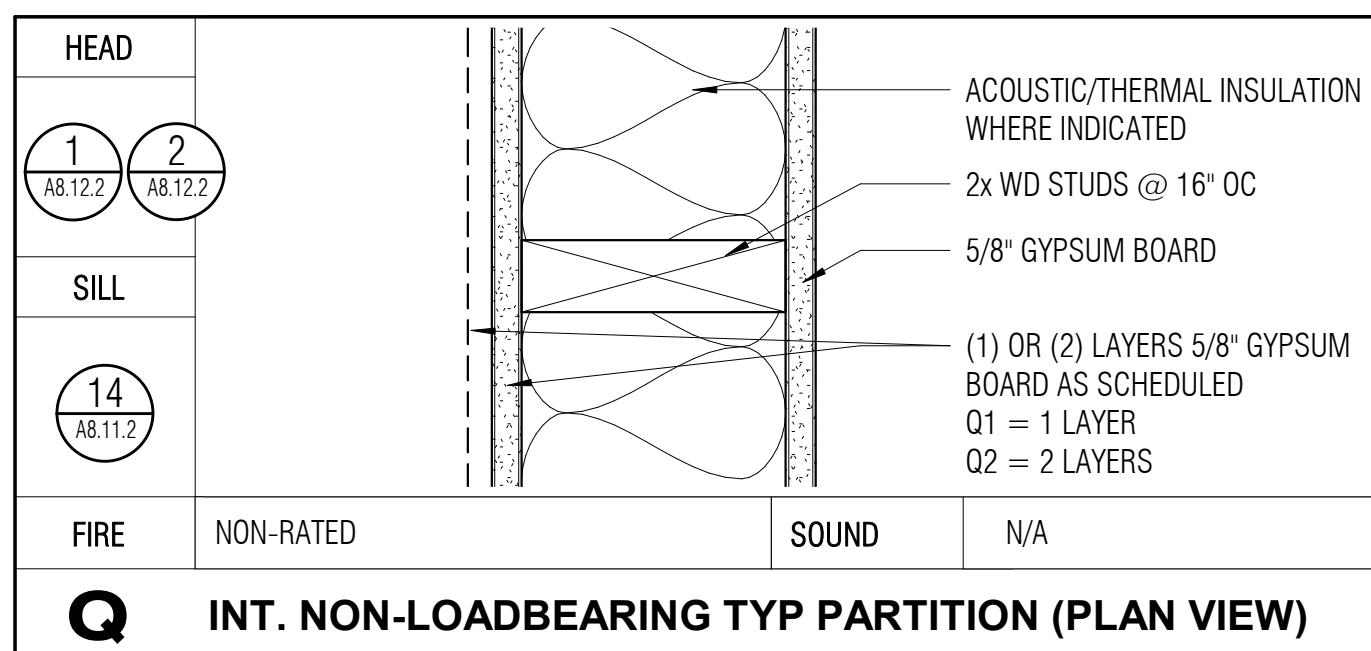
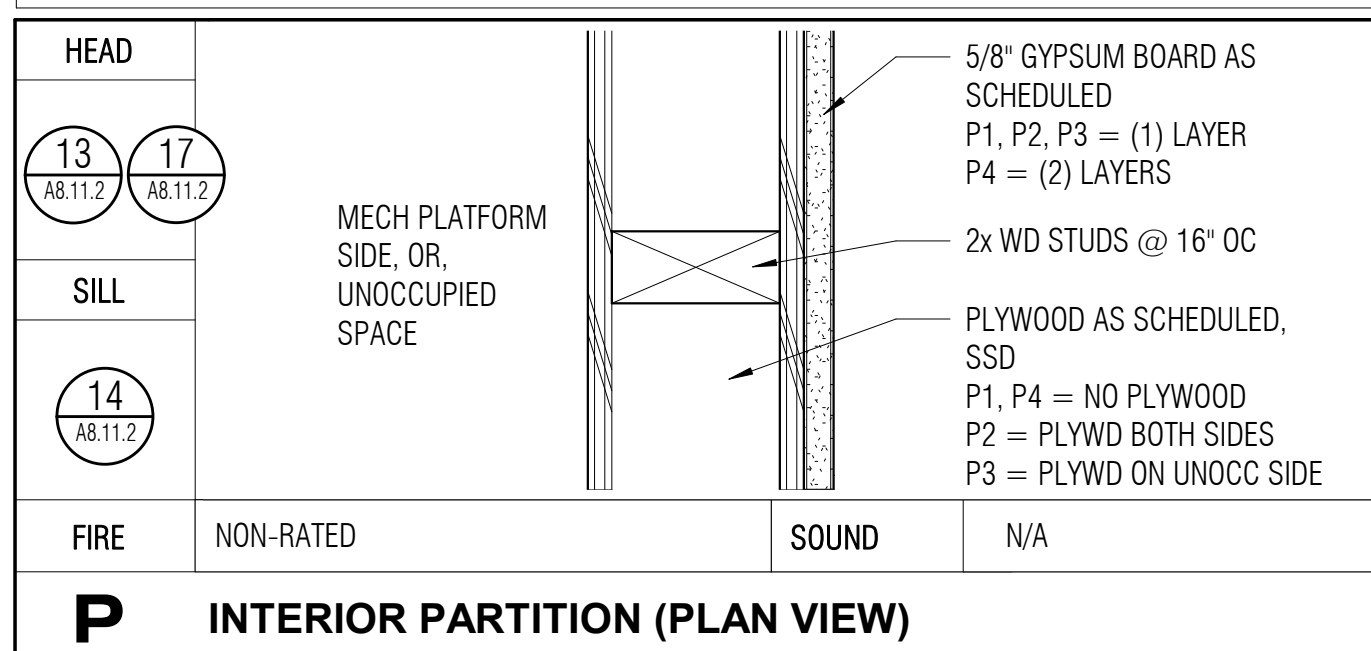
SHEET TITLE

**INTERIOR
ELEVATIONS - CAFE**

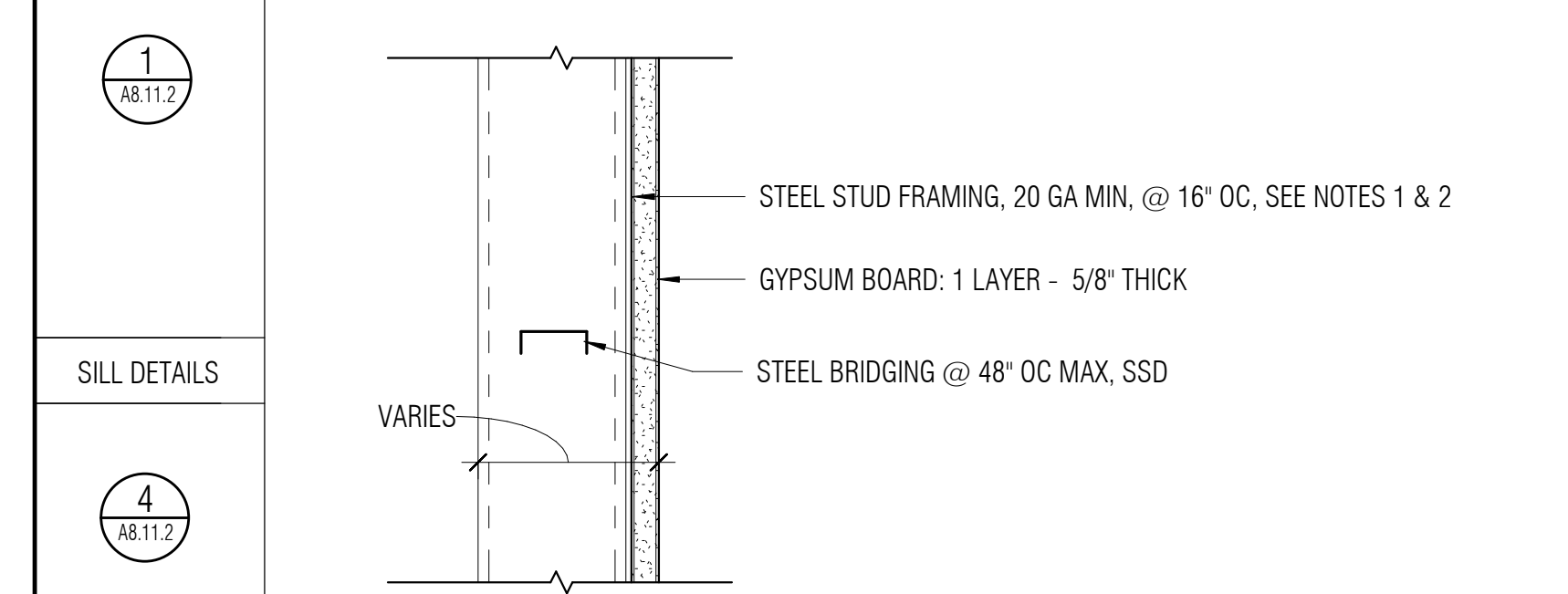
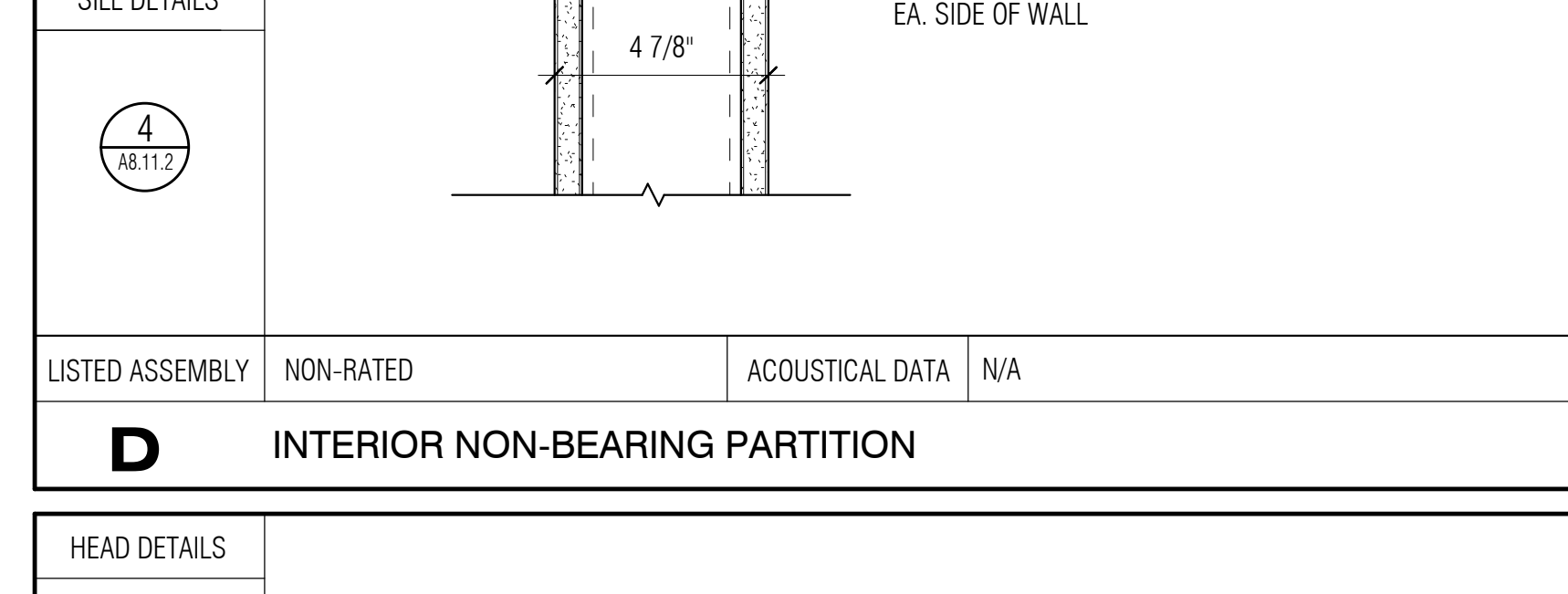
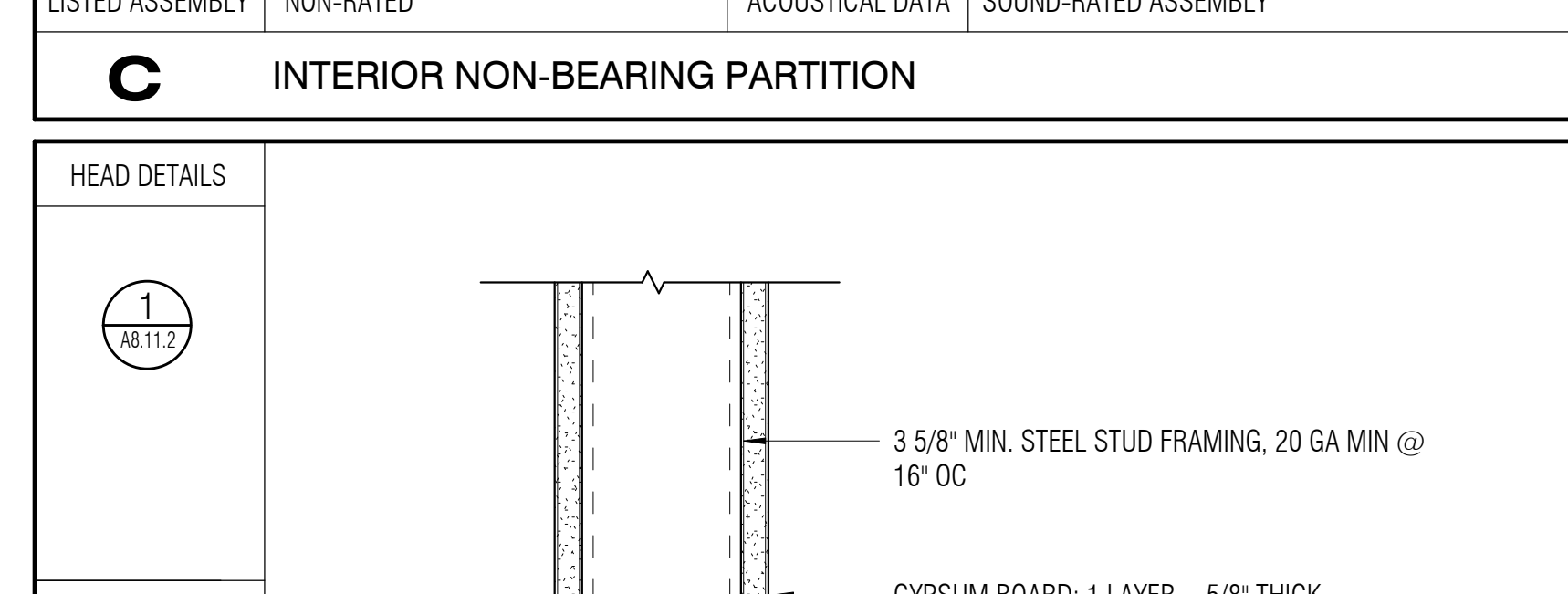
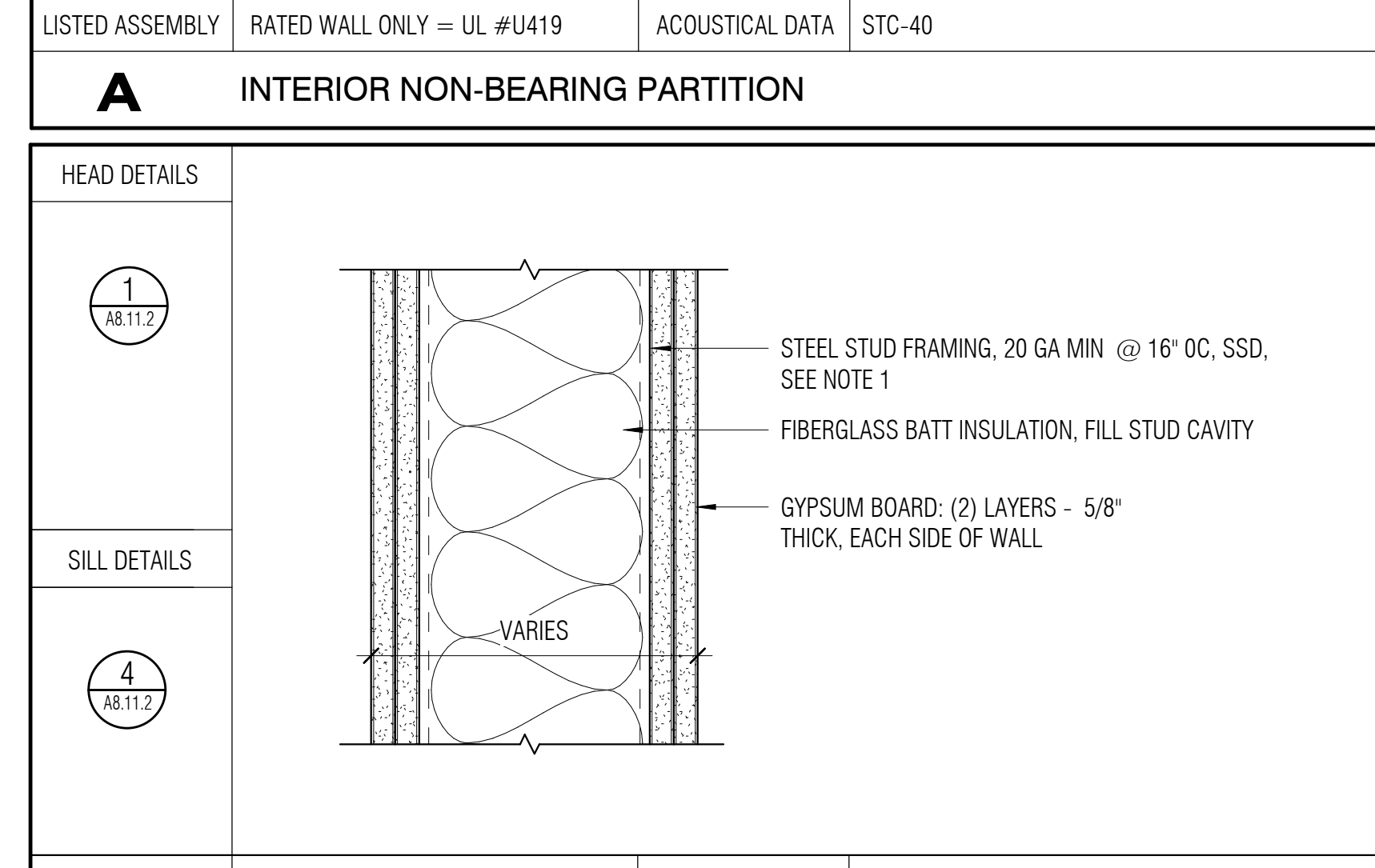
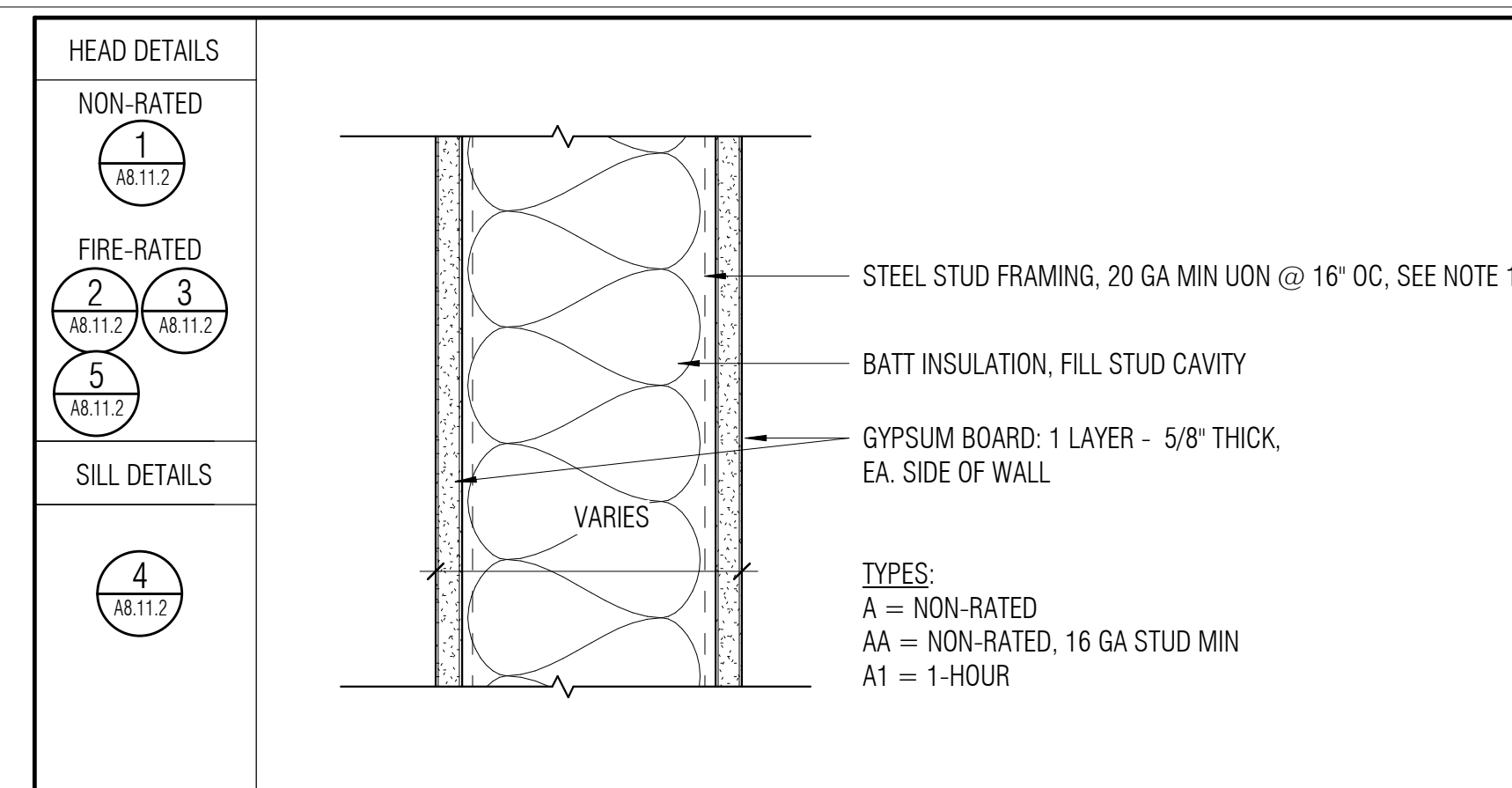
SHEET NUMBER

A7.21.2

INT. PARTITION TYPES - WOOD STUD



INTERIOR PARTITION TYPES - METAL STUD



FLOOR, SIDE, AND CEILING RUNNERS - "J" SHAPED RUNNER, MIN 2 1/2" DEEP, WITH UNEQUAL EDGES OF 1" AND 2"; FABRICATED FROM MIN 24 MSG GALV STEEL. RUNNERS POSITIONED WITH SHORT LEG TOWARD FINISHED INSIDE OF WALL. RUNNERS ATTACHED TO STRUCTURAL SUPPORTS WITH STEEL FASTENERS LOCATED NOT GREATER THAN 2" FROM ENDS AND NOT GREATER THAN 24" OC.

GYPSUM BOARD - GYPSUM LINER PANELS, NOM 1" THICK, 24" WIDE. VERTICAL EDGES INSERTED IN "H" PORTION OF "C-H" STUDS. FREE EDGE OF END PANELS ATTACHED TO LONG LEG OF VERTICAL "J" RUNNERS WITH 1 5/8" LONG TYPE S SELF-DRILLING STEEL SCREWS SPACED NOT GREATER THAN 12" OC. (< 24" O.C. FOR UL W419)

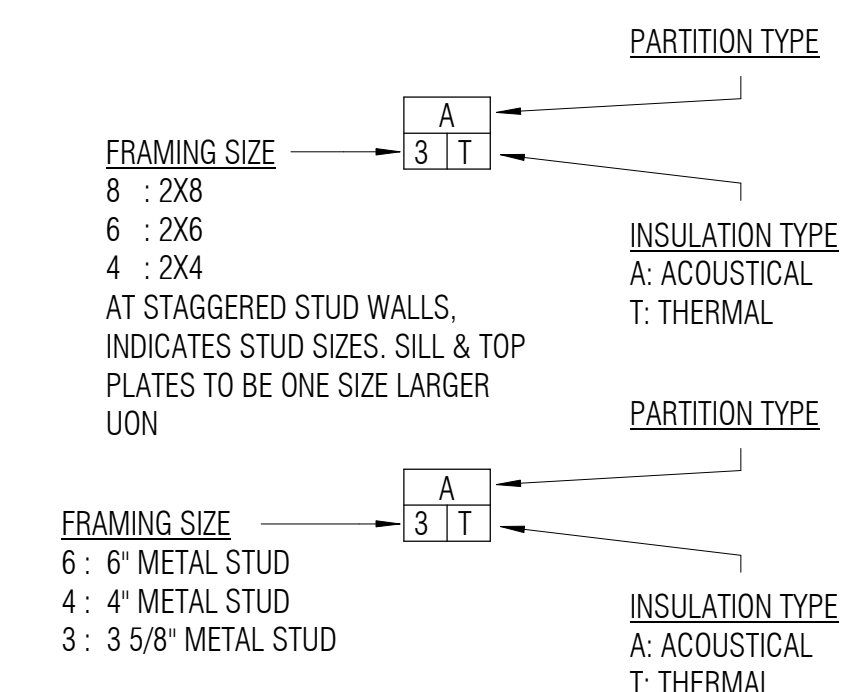
STEEL STUDS - "C-H" SHAPED STUDS, MIN 2 1/2" DEEP (AND 1 1/2" WIDE IN UL W419). FABRICATED FROM MIN 25 MSG GALV STEEL. CUT TO LENGTHS 3/8" TO 1 1/2" LESS THAN FLOOR-TO-CEILING HEIGHT AND SPACED 24" OC.

GYPSUM BOARD - GYPSUM PANELS, WITH BEVELED, SQUARE OR TAPERED EDGES, NOM 5/8" THICK, 48" WIDE, APPLIED VERTICALLY OR HORIZONTALLY, ATTACHED TO STUDS WITH 1" LONG TYPE S STEEL SCREWS SPACED 12" WHEN INSTALLED VERTICALLY OR 8" OC WHEN INSTALLED HORIZONTALLY.

**UL DESIGN NO. U415
(UL W419 SIM. AS NOTED)
NER DESIGN NO. 258
1HR FIRE RATED
ASSEMBLY**

1 HOUR SHAFT WALL
3" = 1'-0"

PARTITION TYPE PLAN TAG



PARTITION NOTES

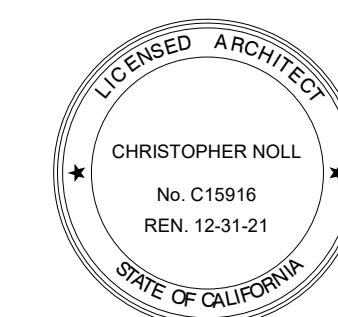
- FOR STEEL FRAMING SIZES NOT NOTED, SEE WALL TAGS ON PLANS
- FOR PARTITIONS W/ METAL STUDS, GAUGES SHALL BE DETERMINED BY THE INTERIOR WALL STUD SCHEDULE, SSD. AT FIRE RATED PARTITIONS, ALSO SEE SPECIFIED UL LISTING. THE MOST RESTRICTIVE REQUIREMENT GOVERNS
- AT WALLS SUPPORTING WALL-HUNG UPPER CABINETS, PROVIDE 16 GA MIN STEEL STUDS WITH A STUD BACKING @ THE CABINET LOCATIONS. PROVIDE BACKING @ ATTACHED EQUIPMENT, CASEWORK, AND ACCESSORIES AS REQUIRED TO SUPPORT WEIGHT. SEE BACKING DETAILS ON SHEET AB.82.2 WOOD FRAMED WALLS, SSD FOR BACKING AT METAL STUD WALLS.
- REFER TO STRUCTURAL DRAWINGS FOR TYPICAL BEARING WALL WOOD FRAMING AND SHEAR WALL DETAILS AND SCHEDULES.
- REFER TO SHEET AB.13.2 FOR TYPICAL NON-LOADBEARING WOOD PARTITION FRAMING DETAILS.
- ALL GYP BOARD TO BE 5/8" TYPE X UON. WATER-RESISTIVE GYP BOARD SHALL BE USED AT WALLS WITH PLUMBING FIXTURES
- WHERE WALL TILE IS INDICATED, PROVIDE WATER RESISTIVE GYPSUM BOARD WITH LEVEL 2 FINISH AS DEFINED IN THE SPECIFICATIONS.
- WHERE PARTITIONS DO NOT EXTEND TO UNDERSIDE OF THE STRUCTURE AND WHERE CEILING HEIGHTS DIFFER IN ADJOINING ROOMS, EXTEND PARTITION APPROX 6" MINIMUM ABOVE THE HIGHER CEILING OR AS NOTED ON PLANS.
- PARTITIONS REQUIRED TO PROVIDE FIRE RATED SEPARATION BETWEEN ROOMS OR SPACES SHALL EXTEND TO UNDERSIDE OF THE STRUCTURE ABOVE. ALL PENETRATIONS THROUGH THE PARTITION SHALL BE PROTECTED.
- PENETRATIONS THROUGH ACOUSTIC PARTITIONS SHALL BE ISOLATED FROM PENETRATING OBJECT AND SEALED WITH ACOUSTIC SEALANT.
- WHERE A NON-SHEAR WALL IS IN LINE WITH A SHEAR WALL, PROVIDE ADDITIONAL LAYER OF GYPSUM BOARD OR PLYWOOD AS REQUIRED TO MATCH THICKNESS OF SHEAR WALL PLYWOOD TO FLUSH OUT SURFACE OF WALL. DO SAME AT ANY TRANSITION BETWEEN ADJACENT IN-LINE WALLS OF DIFFERENT TYPES WHEN WALLS HAVE DIFFERING LAYERS OF GYPSUM BOARD.
- REFER TO AB.11.2 FOR PARTITION DETAILS.

APPROVALS

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ISSUE TITLE

INCREMENT 2

ISSUE DATE: 5/30/2019

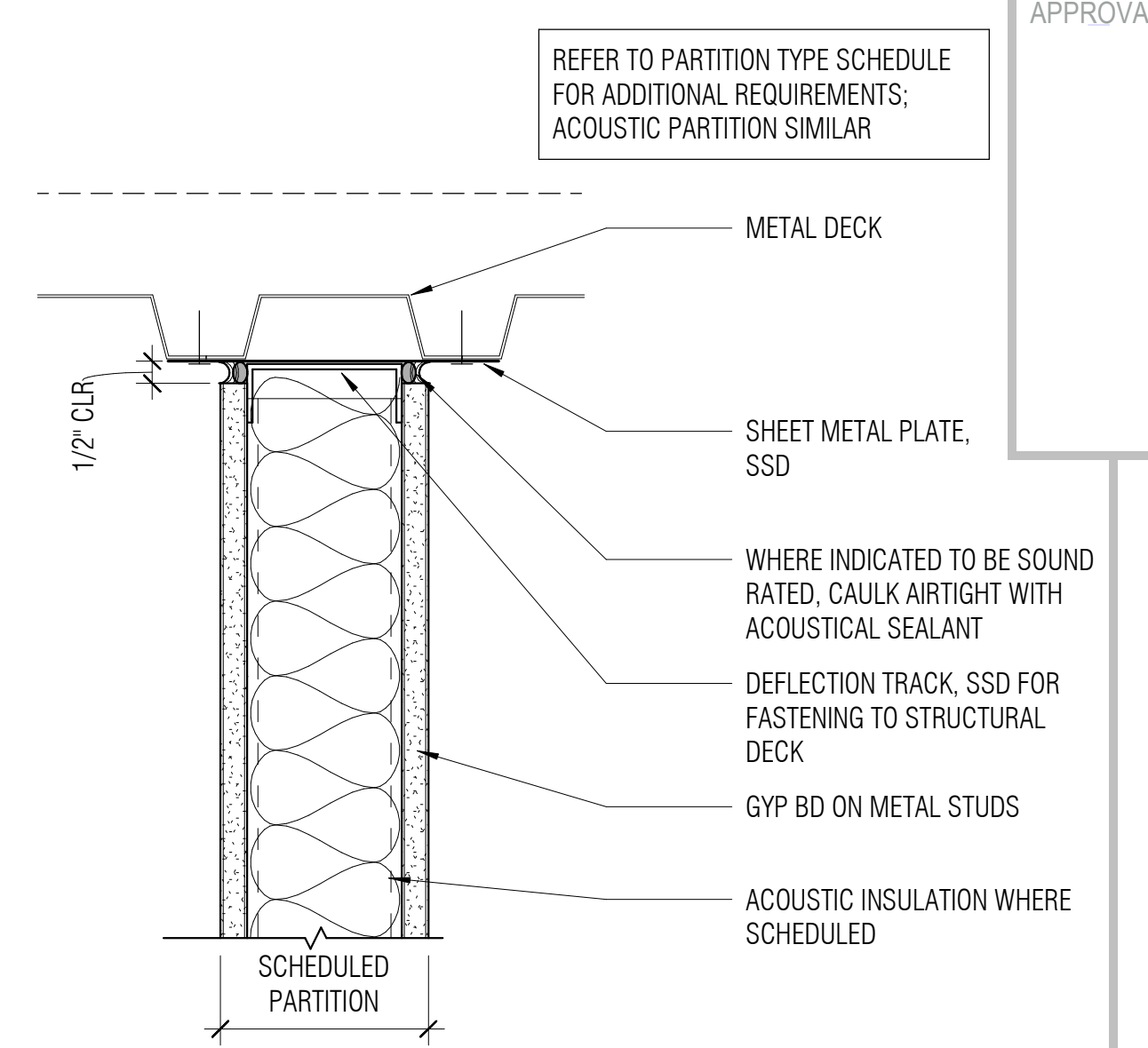
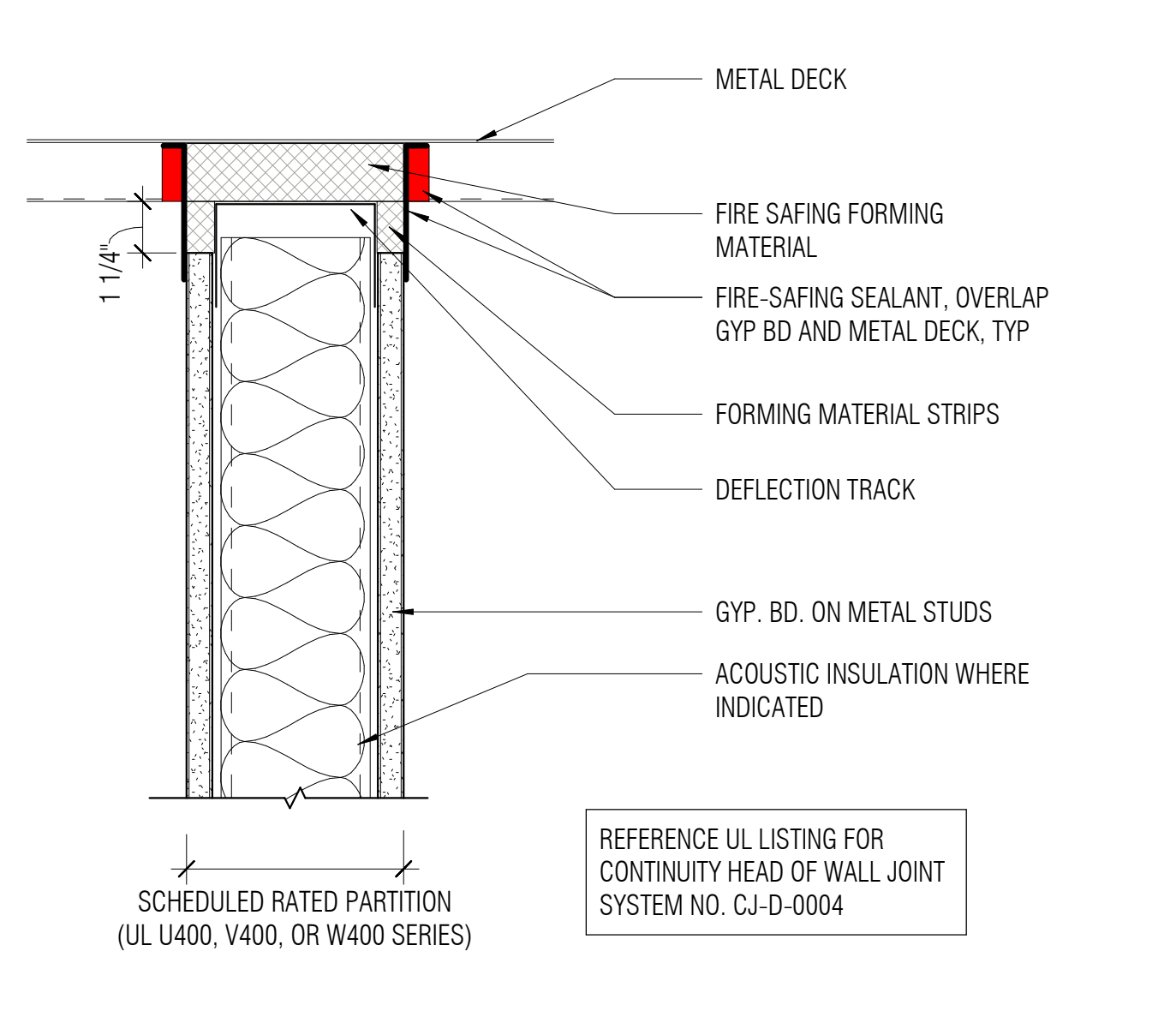
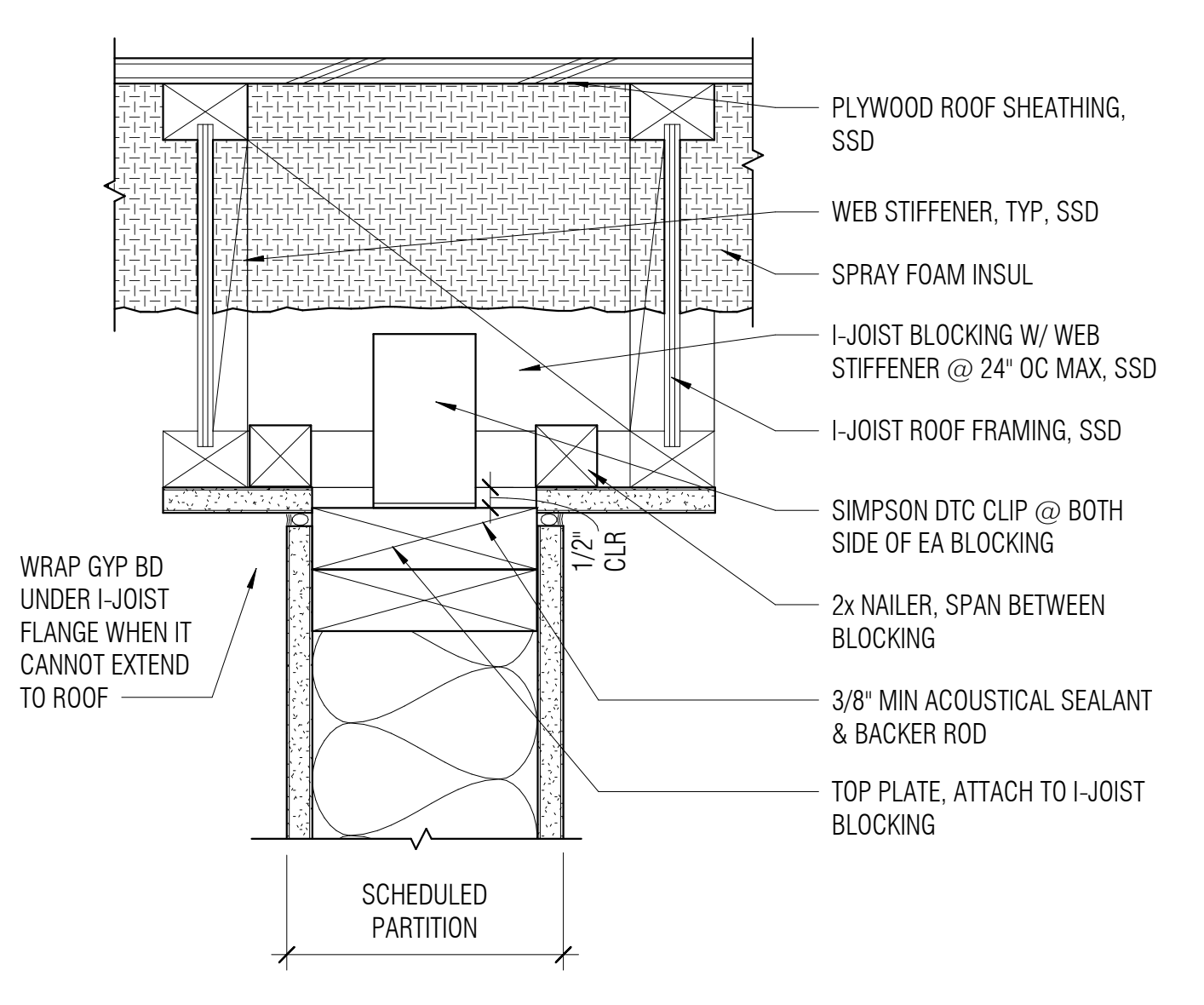
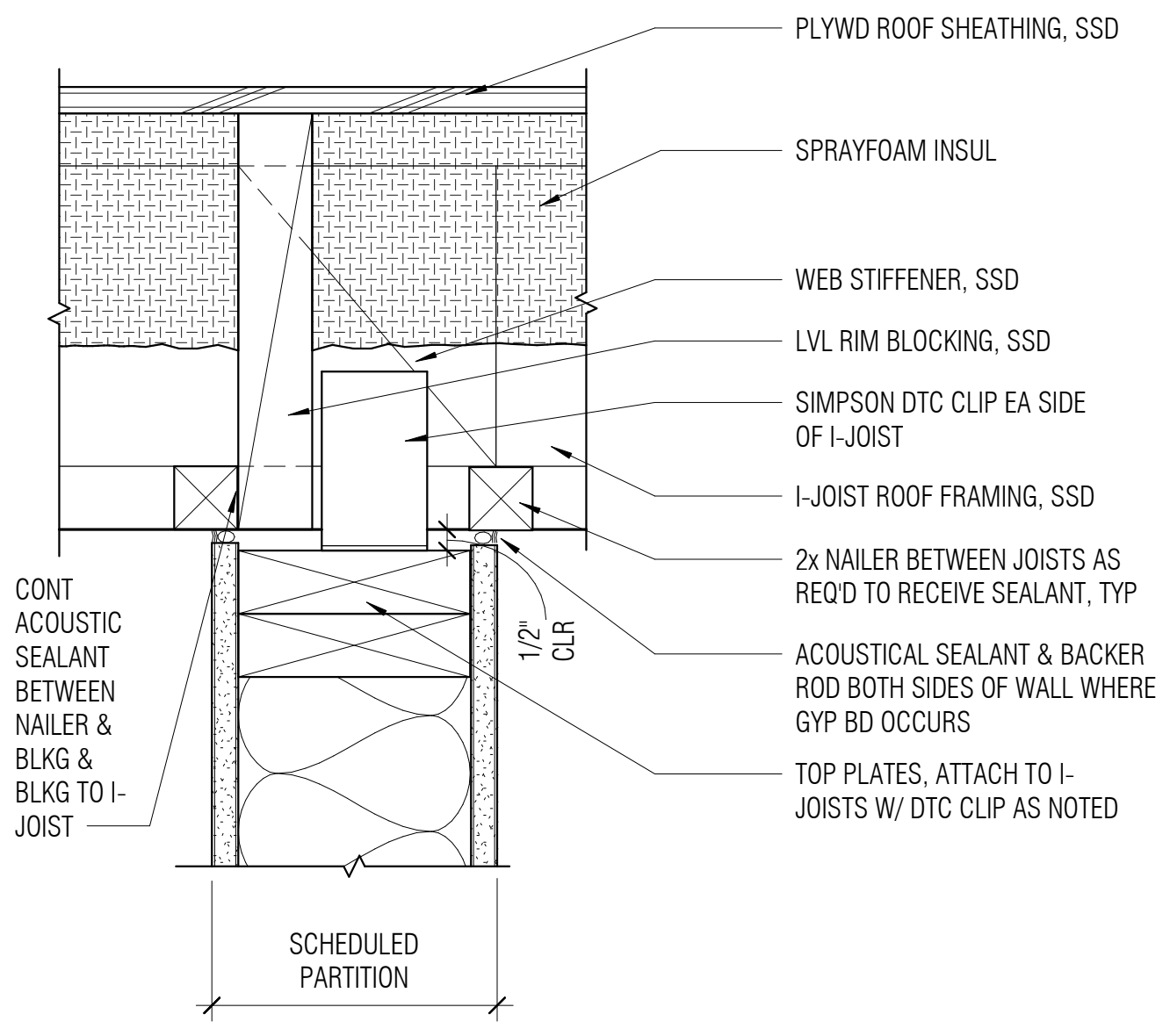
NOLL & TAM JOB NUMBER: 21630

REVISIONS: DATE | DESCRIPTION

SHEET TITLE
INTERIOR - PARTITION & FLOOR TYPES

SHEET NUMBER

A8.10.2



APPROVALS

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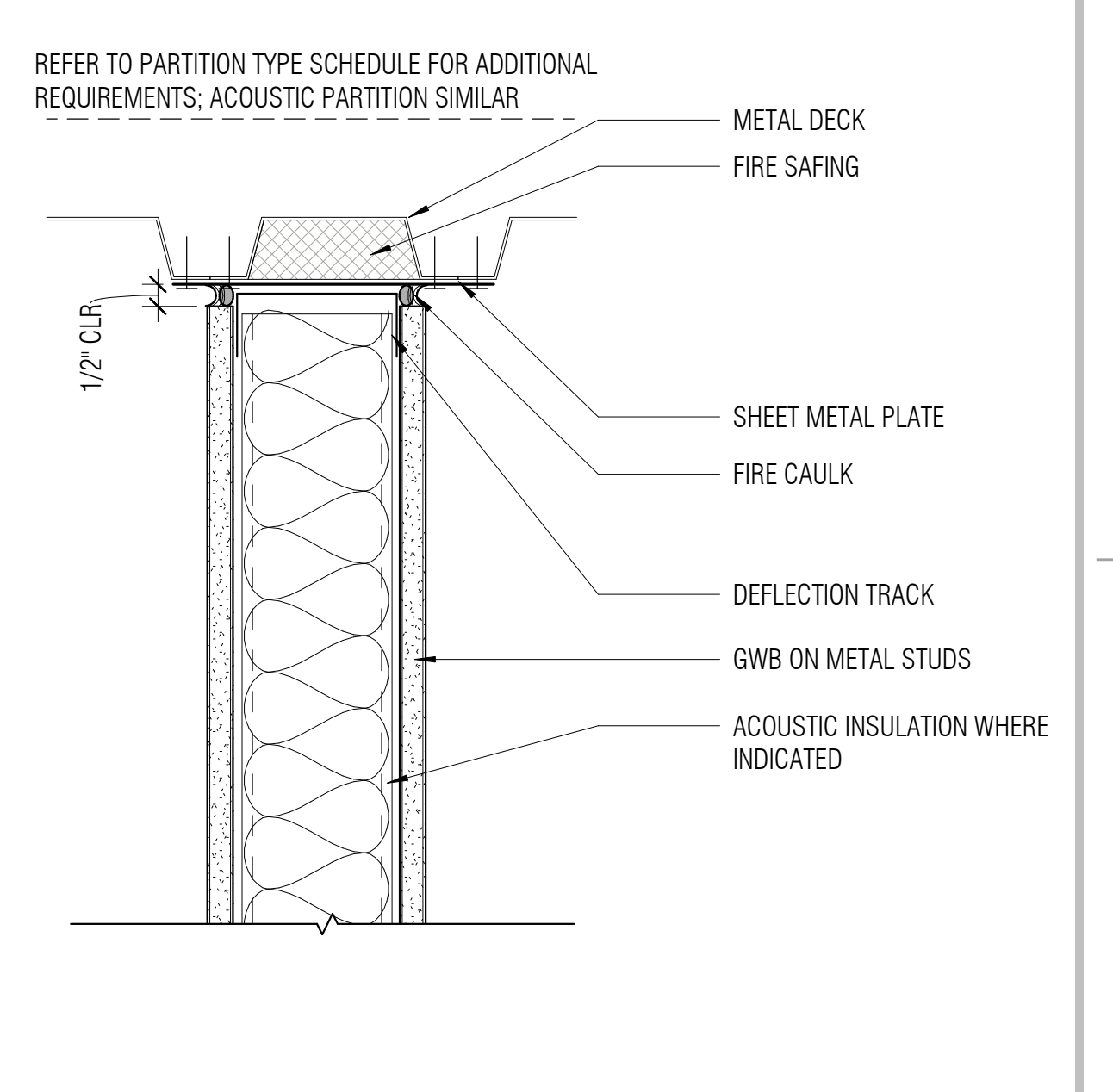
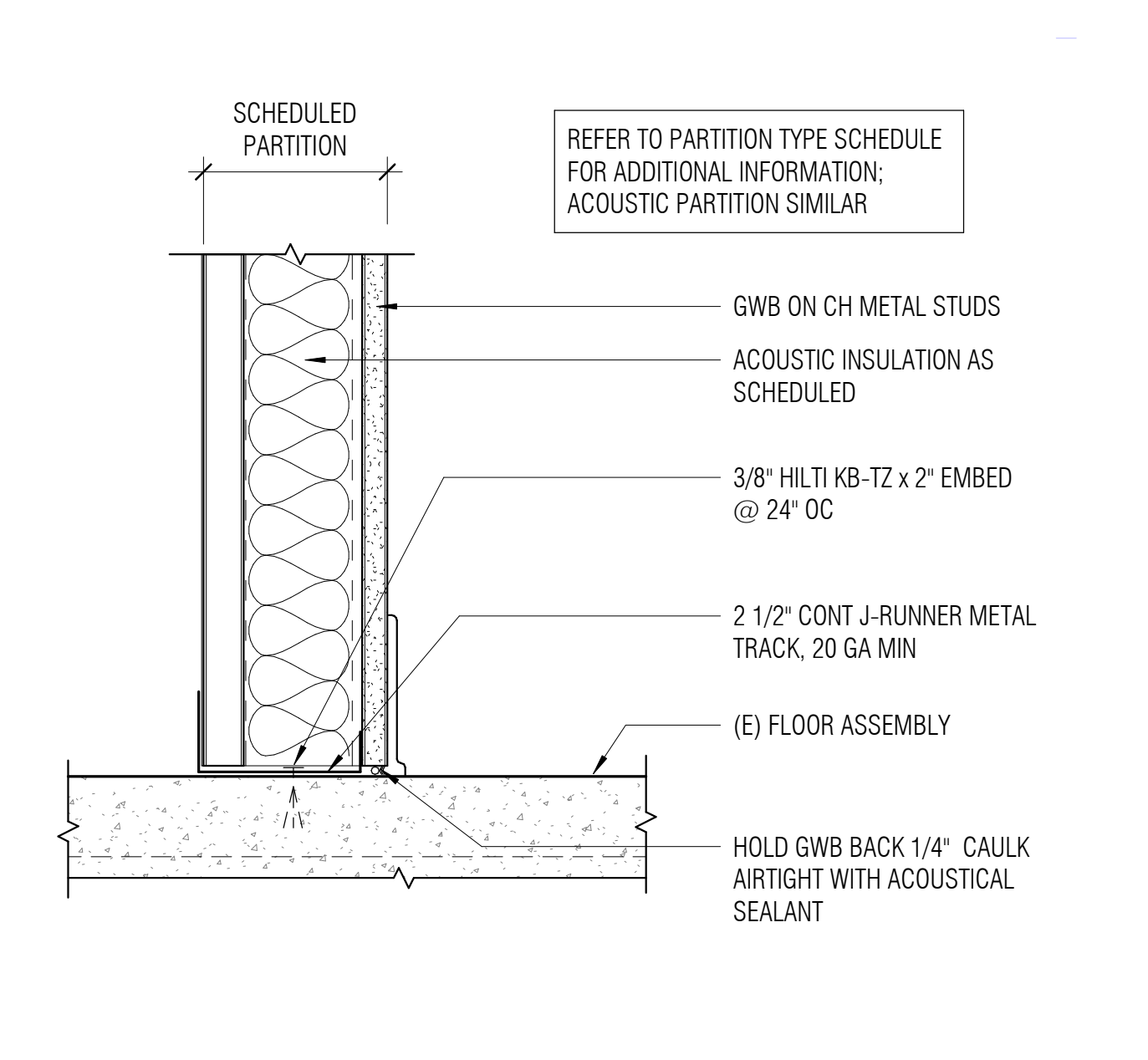
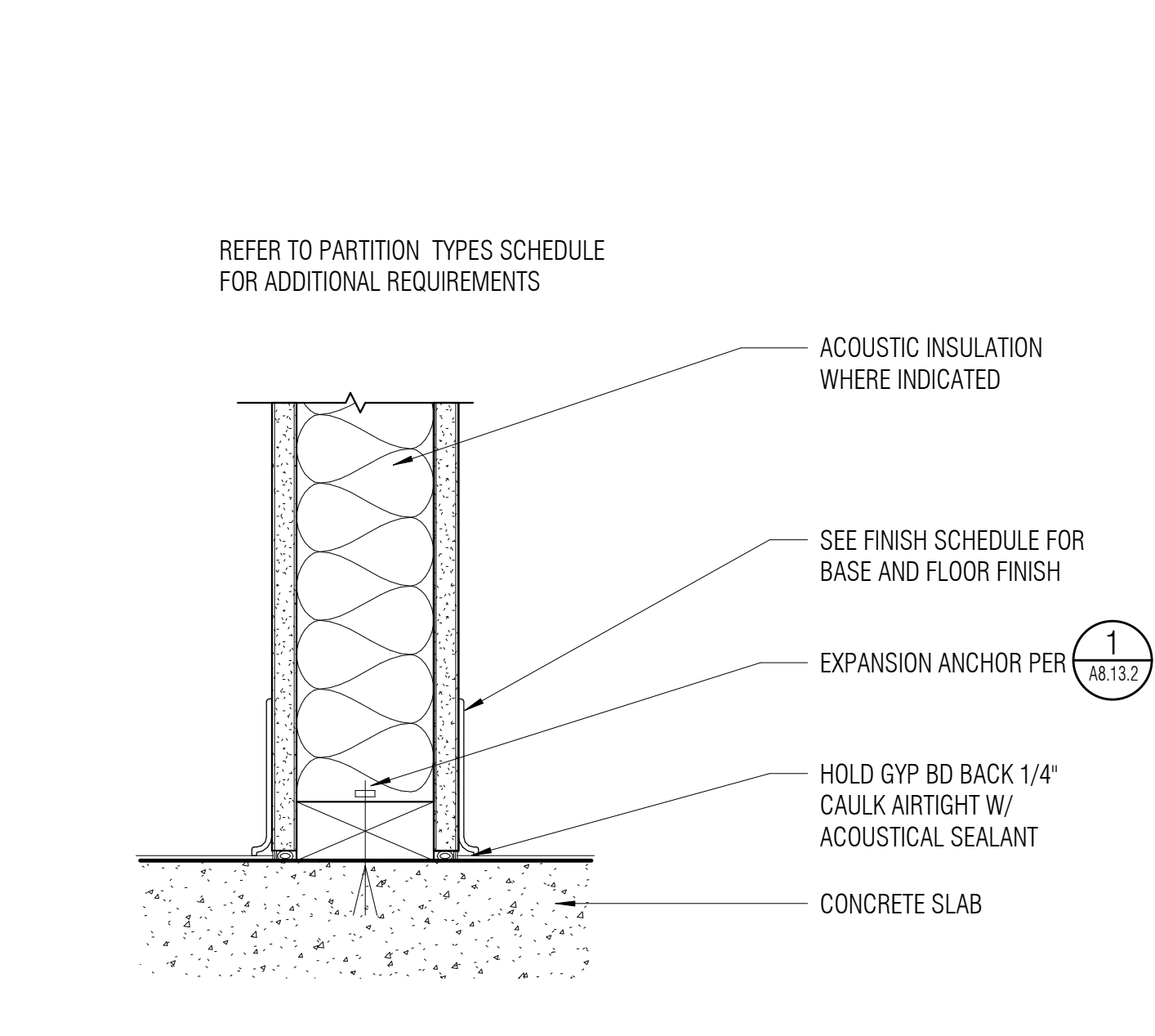
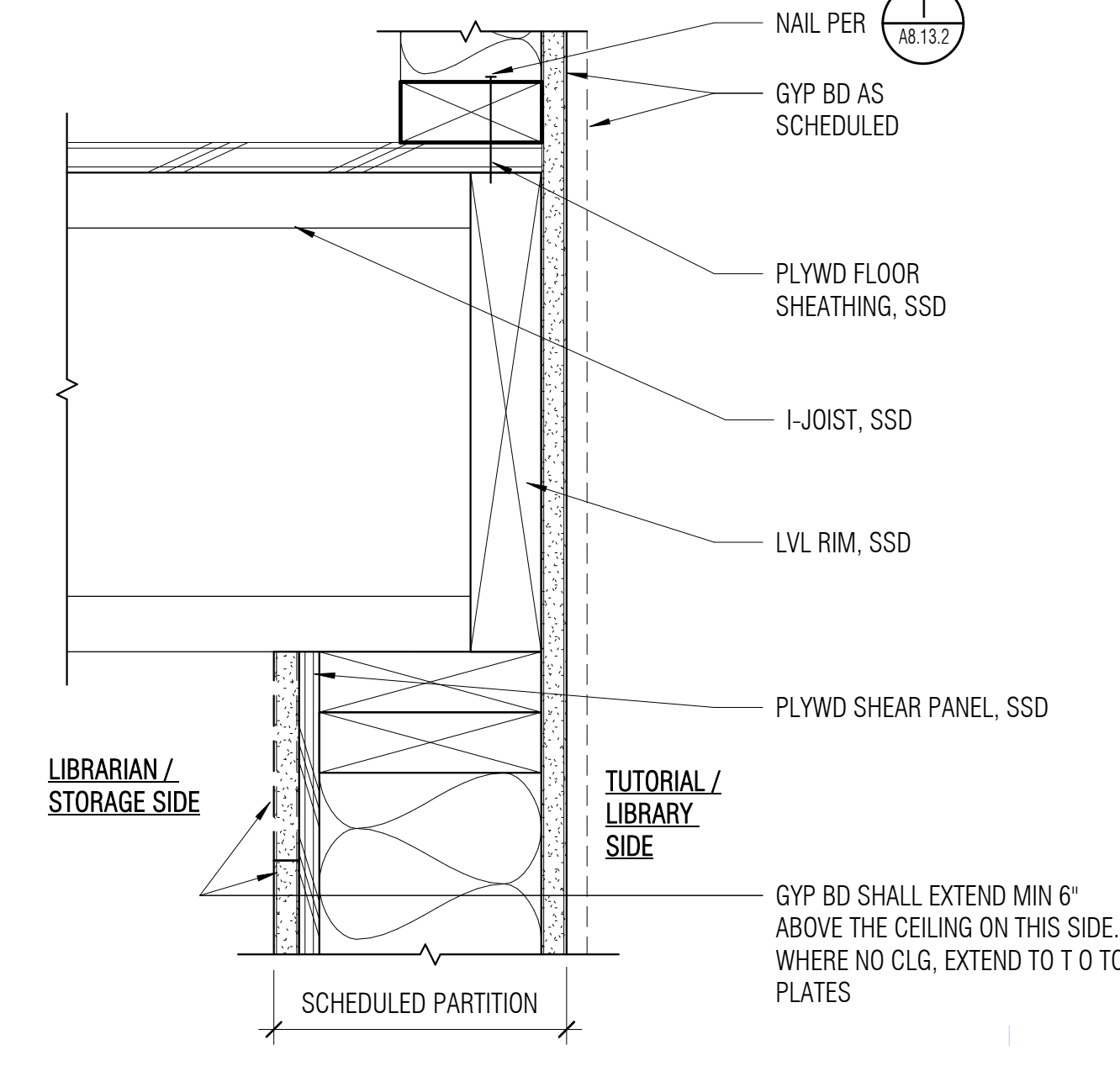
ARCHITECTS SEAL

17 TOP OF NON-BEARING WD PARTITION PERPENDICULAR TO ROOF FRAMING
3\"/>

13 TOP OF NON-BEARING WD PARTITION PARALLEL TO ROOF FRAMING
3\"/>

5 RATED PARTITION TO UNRATED ROOF W/ TOP TRACK PERPENDICULAR TO FLUTES
3\"/>

1 NON-RATED TOP TRACK PARALLEL TO FLUTES
3\"/>

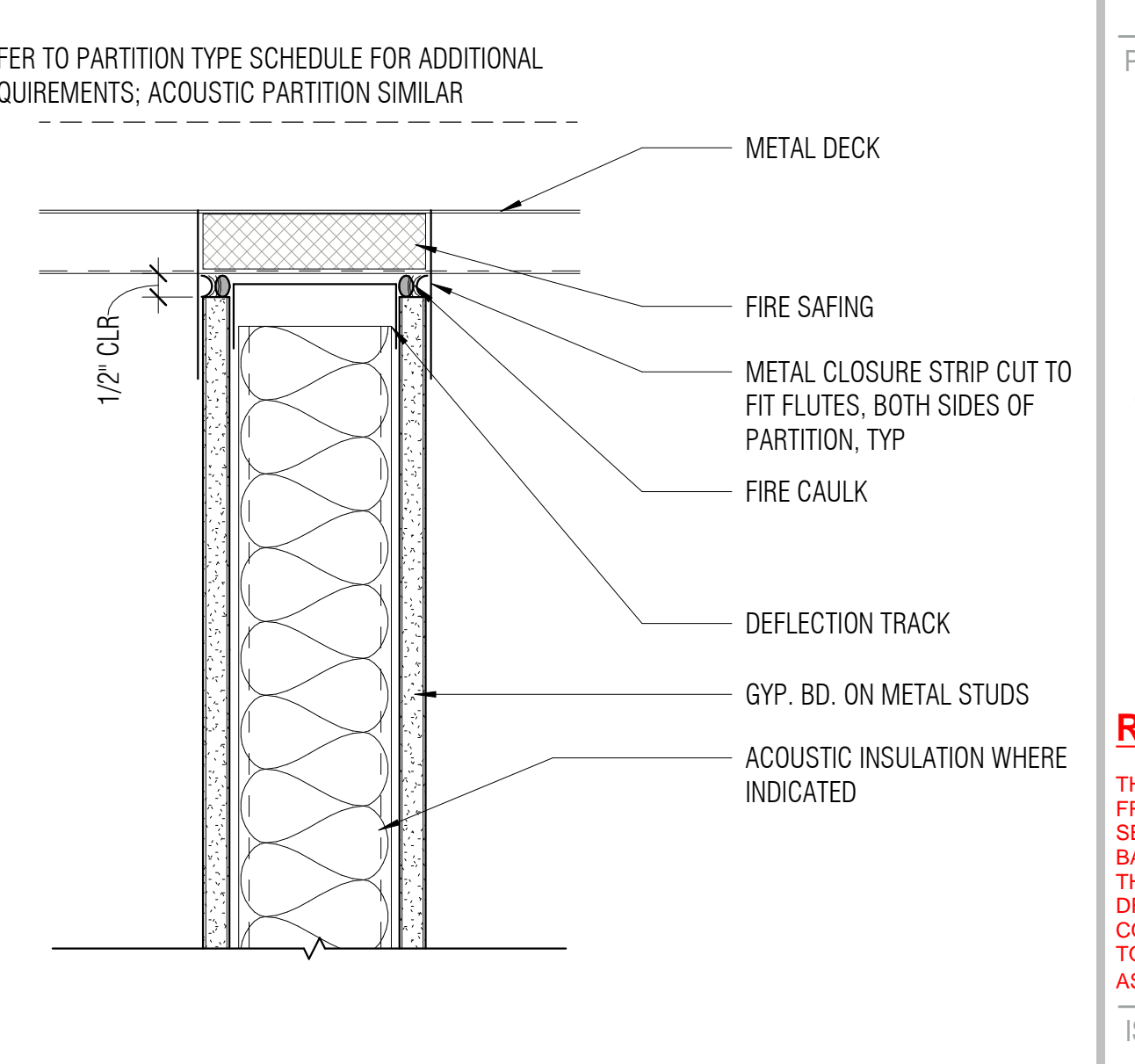
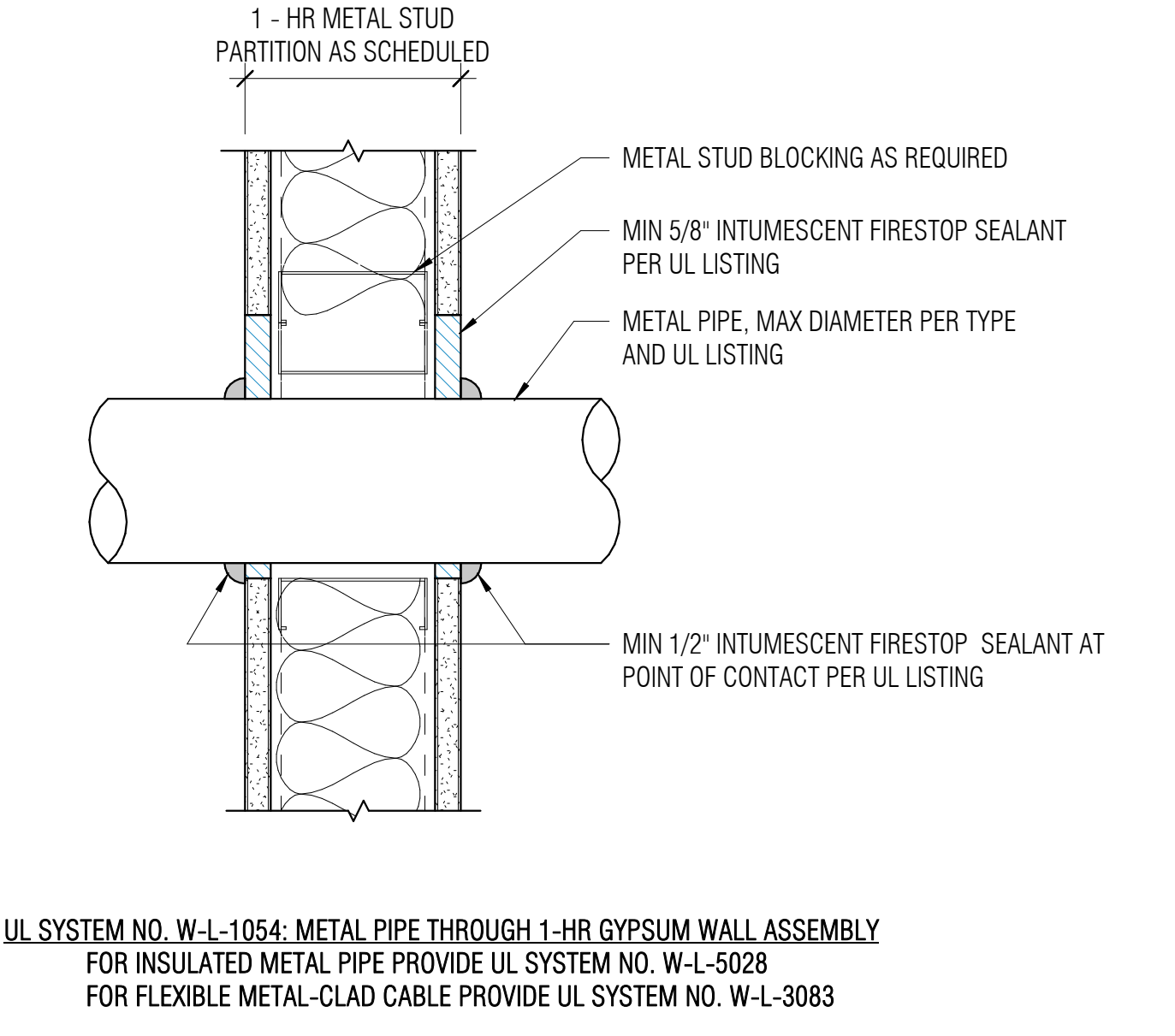
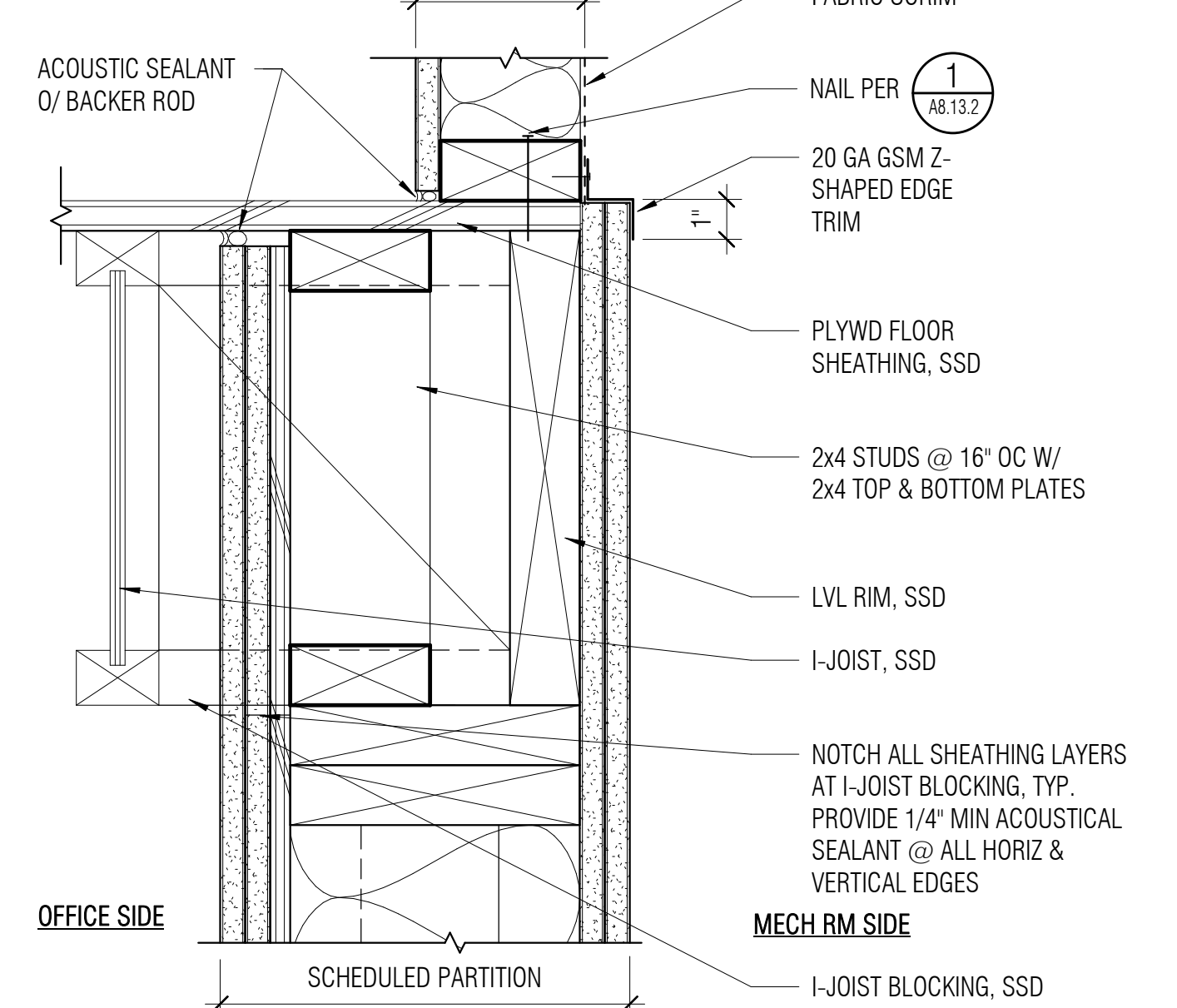
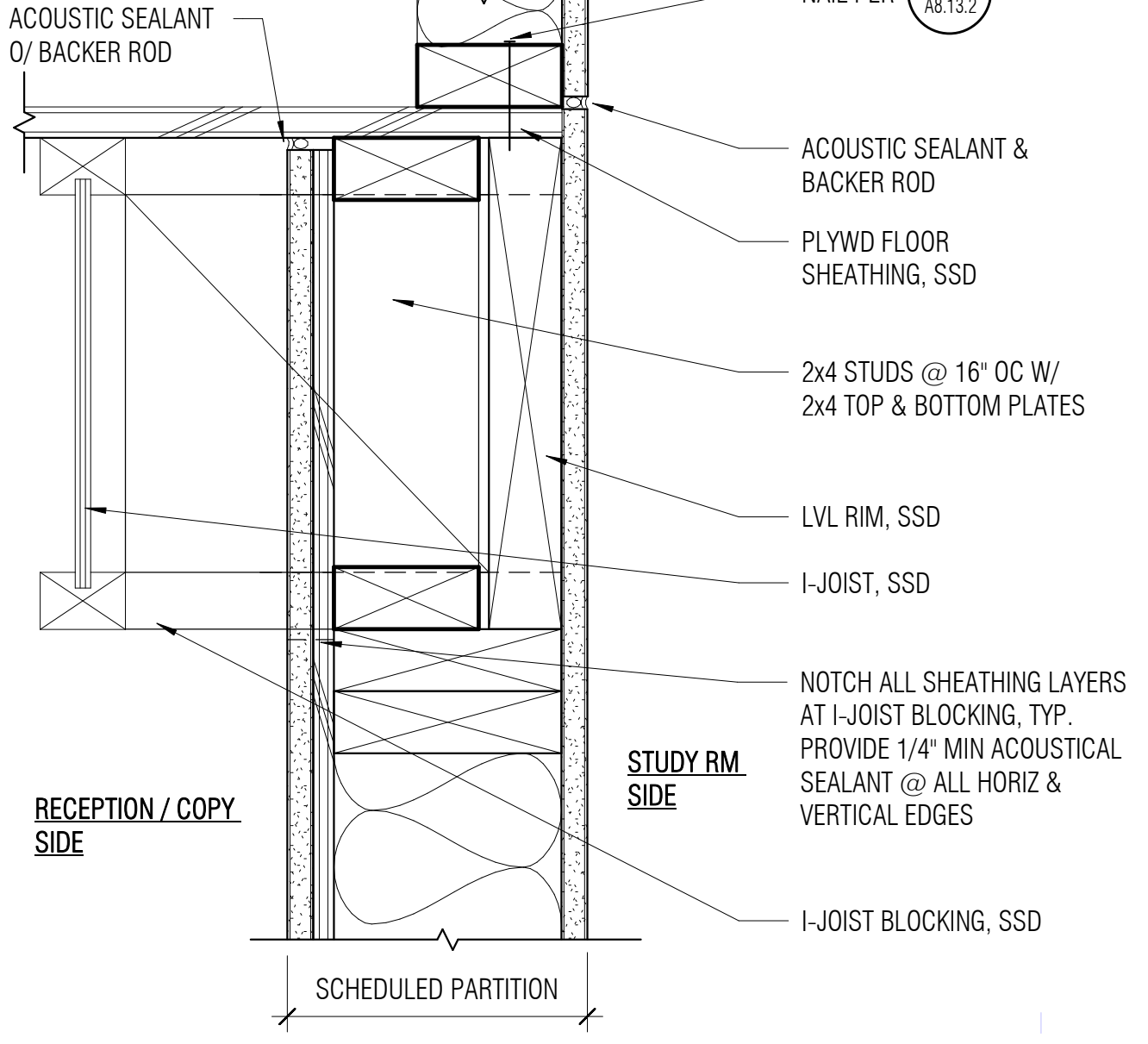


18 TYP WALL @ PLATFORM EDGE - PERPENDICULAR TO FRAMING
3\"/>

14 NON-BEARING PARTITION SILL PLATE
3\"/>

6 SHAFT WALL @ BOTTOM
3\"/>

2 RATED TOP TRACK PARALLEL TO FLUTES
3\"/>

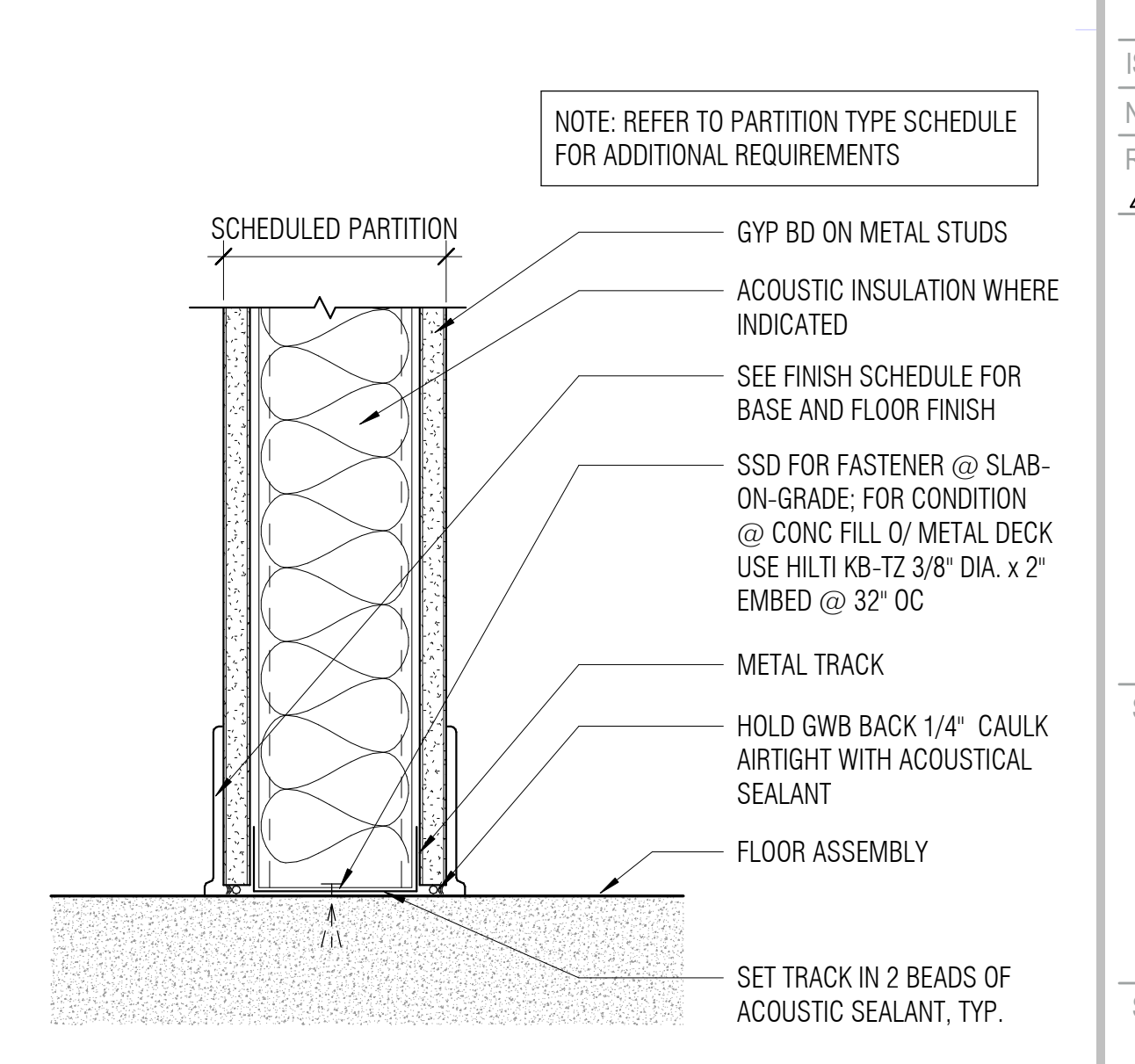
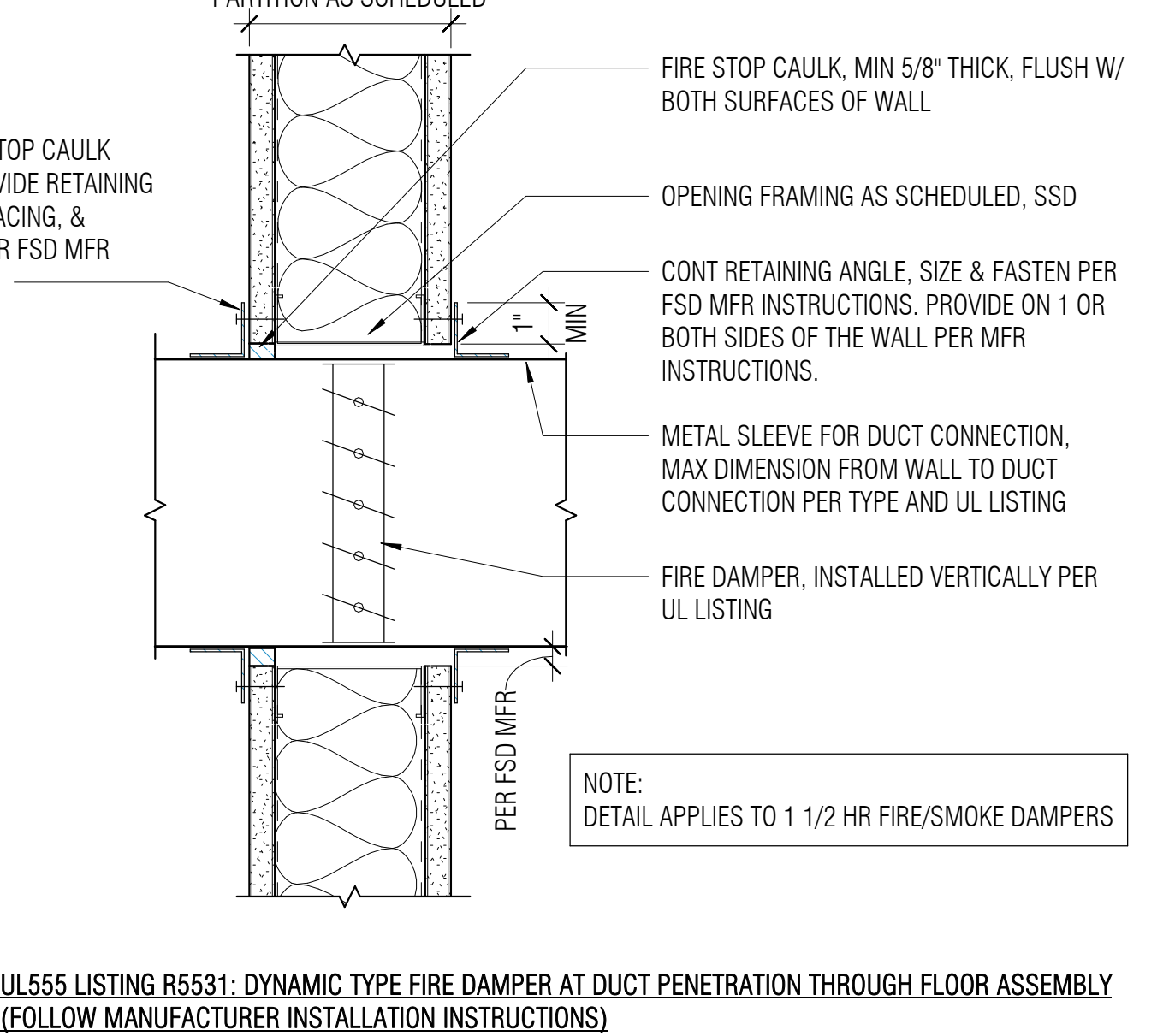
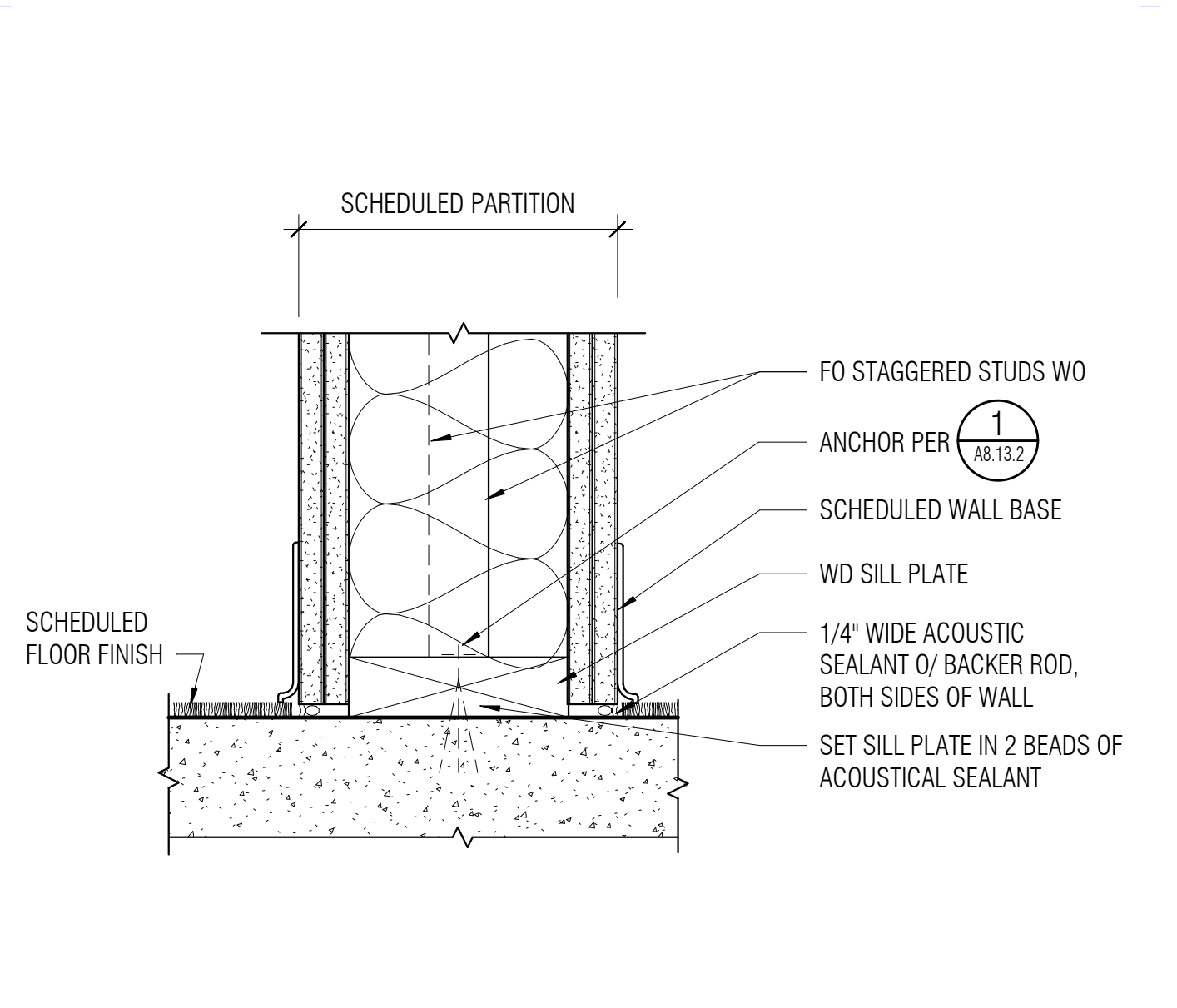
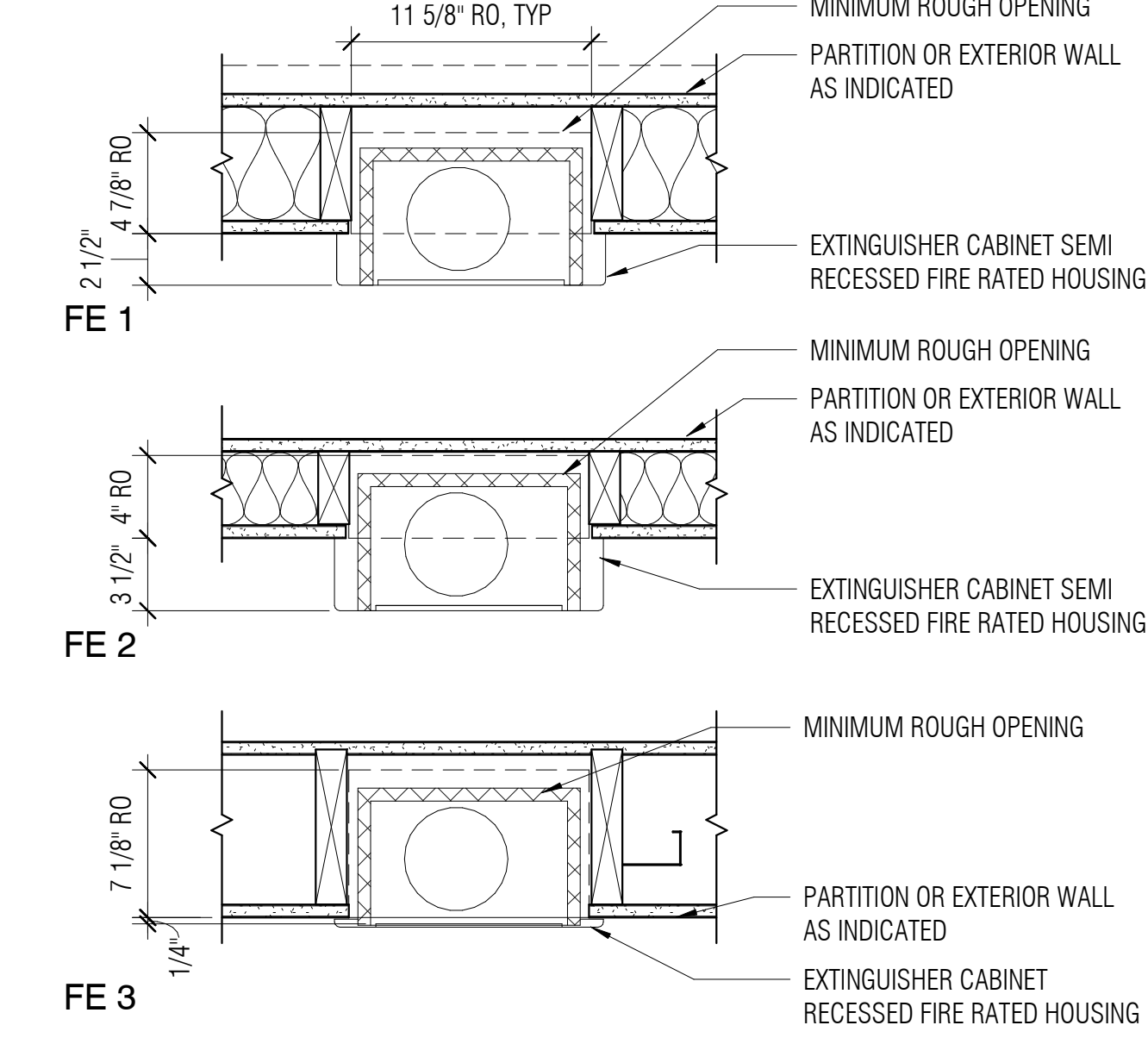


19 TYPICAL WALL @ PLATFORM EDGE - PARALLEL TO FRAMING
3\"/>

15 ACOUSTIC WALL @ PLATFORM EDGE @ MECHANIC
3\"/>

7 PIPE PENETRATION AT FIRE RATED PARTITION
3\"/>

3 RATED TOP TRACK PERPENDICULAR TO FLUTES
3\"/>



20 FIRE EXTINGUISHER CABINET DSA - WOOD STUD
1 1/2\"/>

16 BASE OF ACOUSTIC PARTITION
3\"/>

8 DUCT PENETRATION AT FIRE RATED PARTITION
3\"/>

4 TYPICAL PARTITION BOTTOM TRACK
3\"/>

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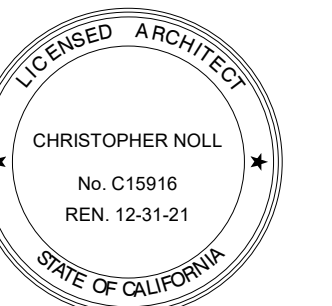
ISSUE TITLE
INCREMENT 2

ISSUE DATE: 5/30/2019
NOLL & TAM JOB NUMBER: 21630
REVISIONS: DATE DESCRIPTION

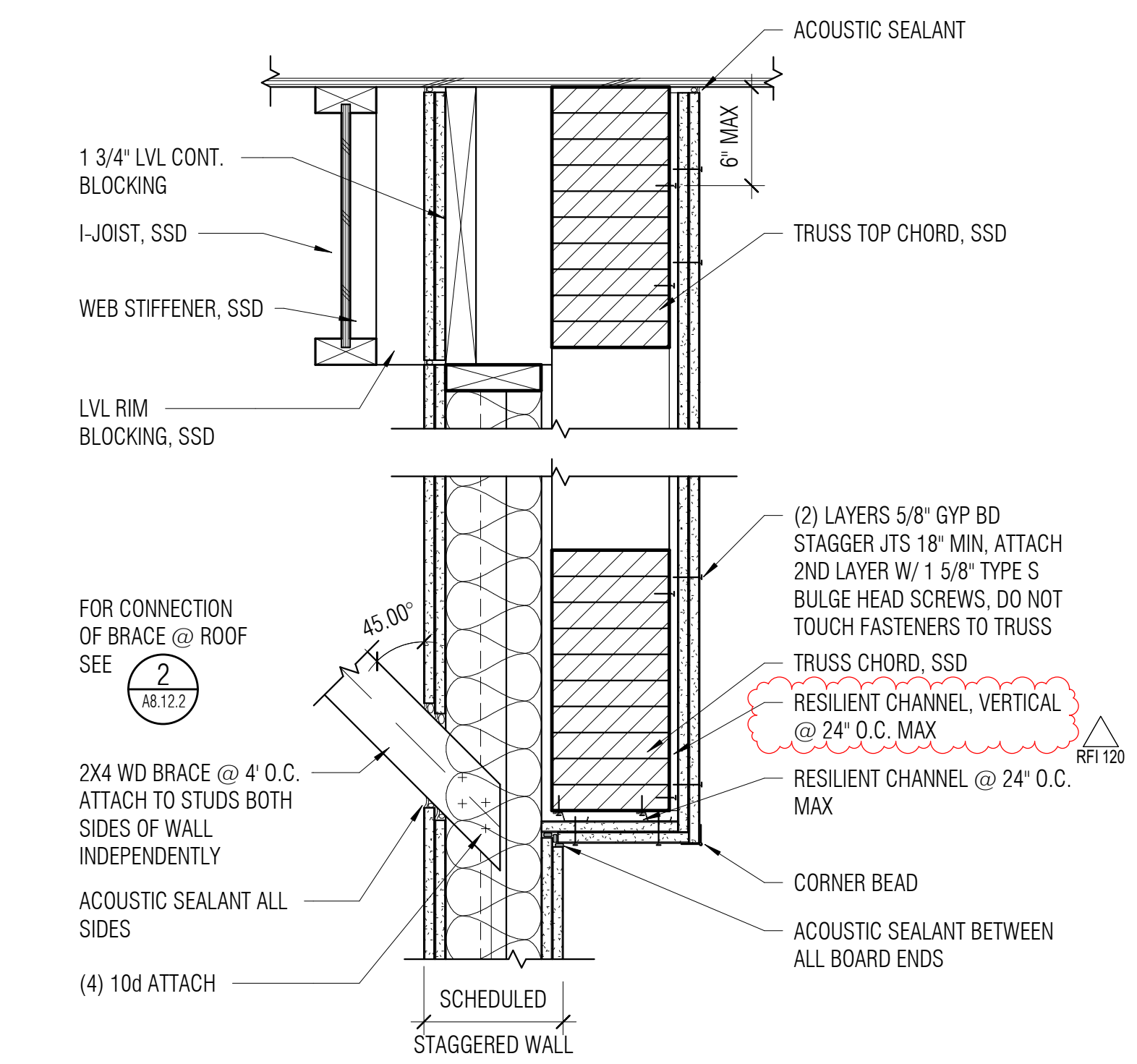
SHEET TITLE
**PARTITION DETAILS,
WOOD & METAL
STUDS**

SHEET NUMBER

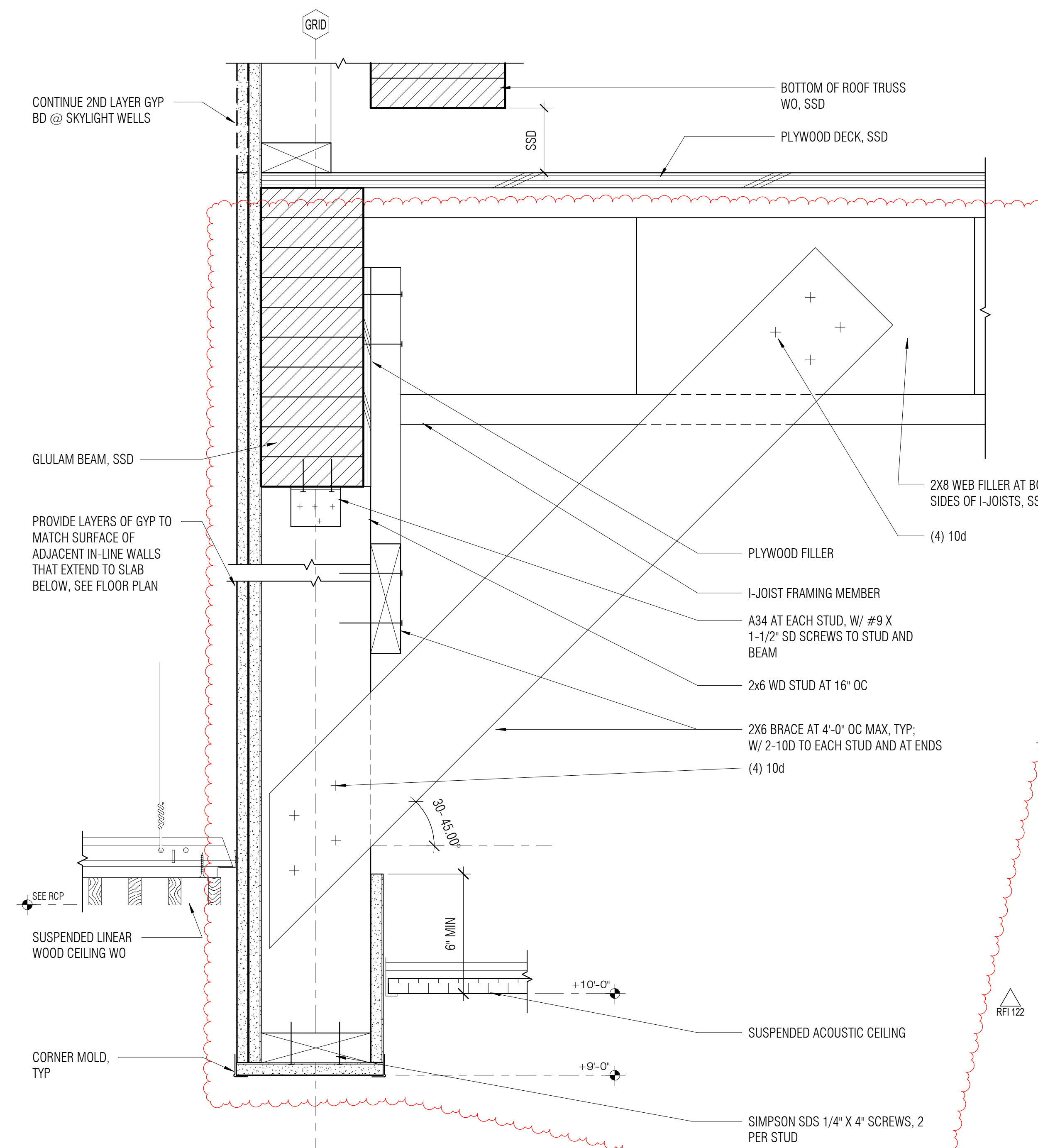
A8.11.2



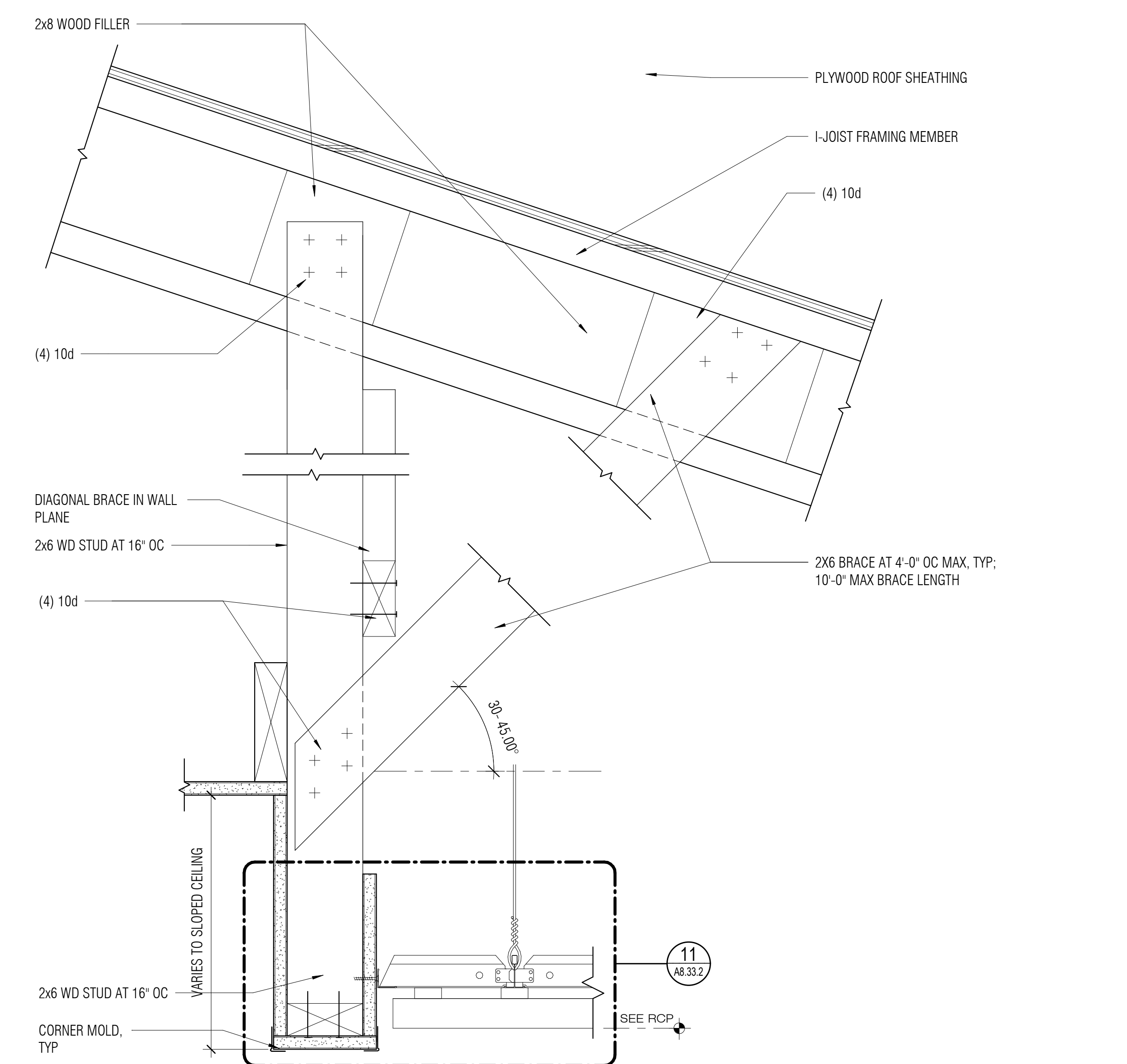
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| 7/29/20 | INC2 RFI 122 |
| 7/30/20 | INC2 RFI 120 |



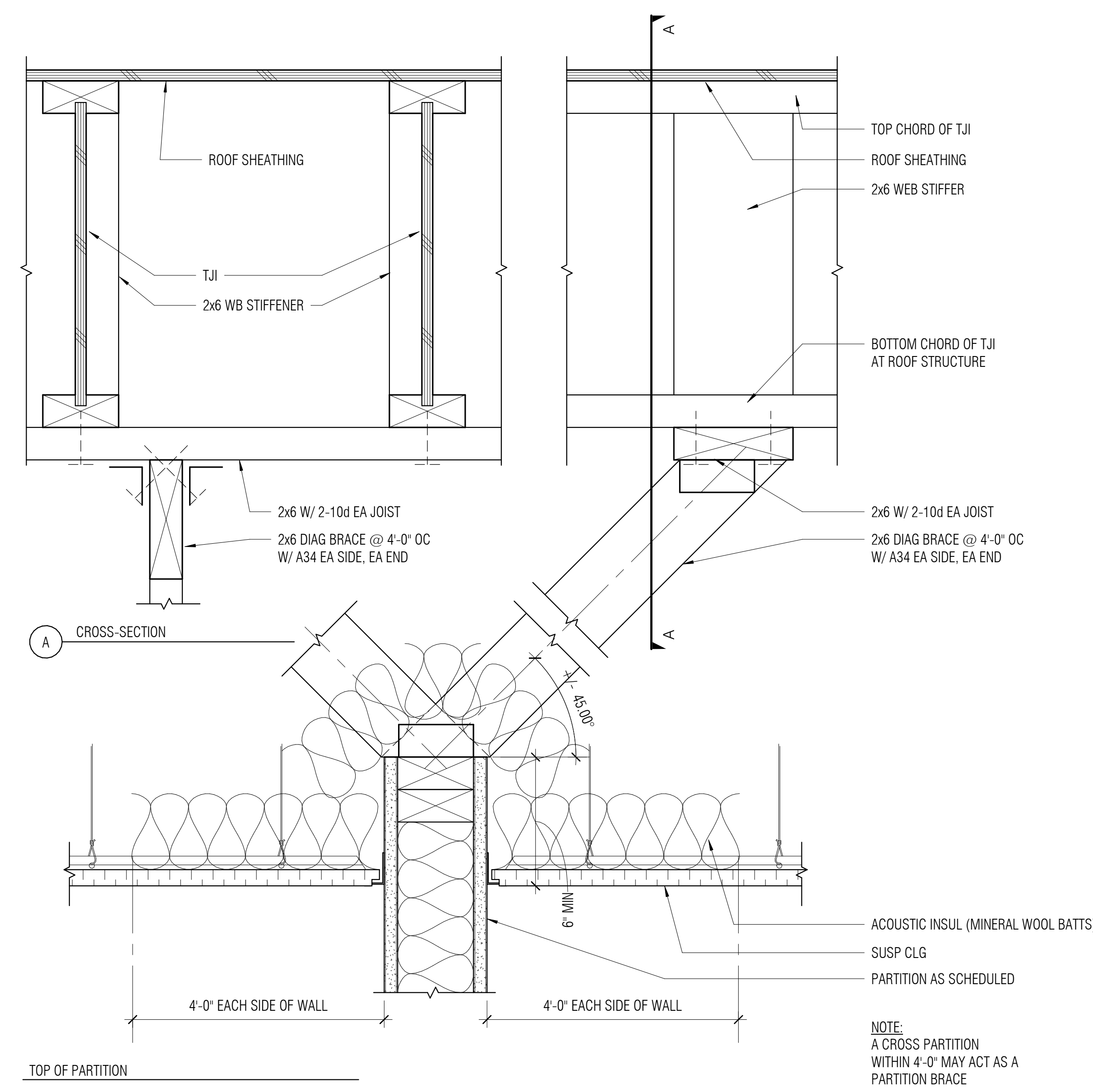
5 BRACING @ STAGGERED STUD WALL TO TRUSS
1 1/2" = 1'-0"



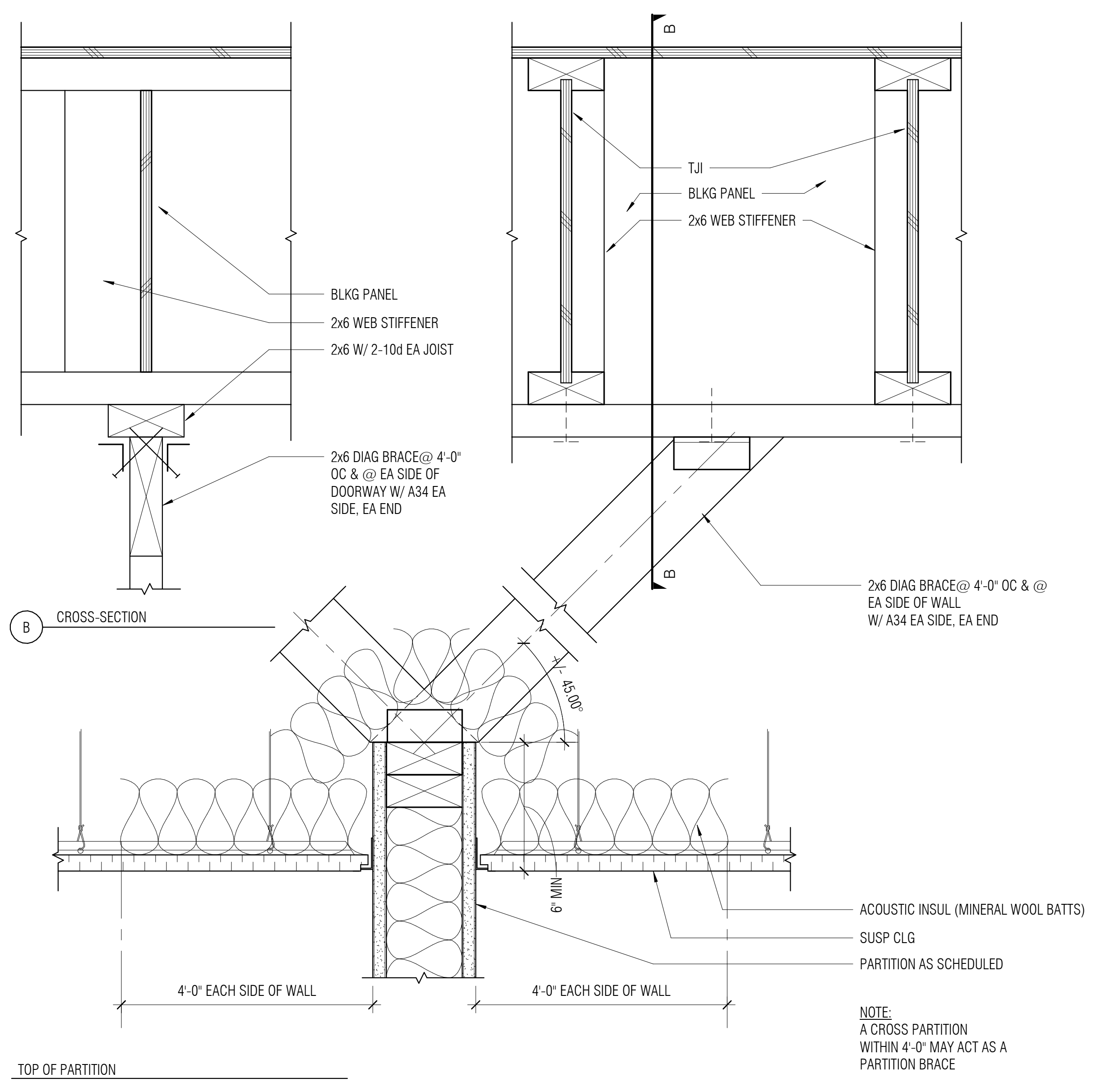
3 SOFFIT OPENING BELOW MECHANICAL PLATFORM
3" = 1'-0"



4 WOOD WALL HUNG FROM ROOF - PERPENDICULAR TO FRAMING
3" = 1'-0"



1 PARTITION BRACE PARALLEL TO ROOF JOISTS (PARTITION PERPENDICULAR)
3" = 1'-0"

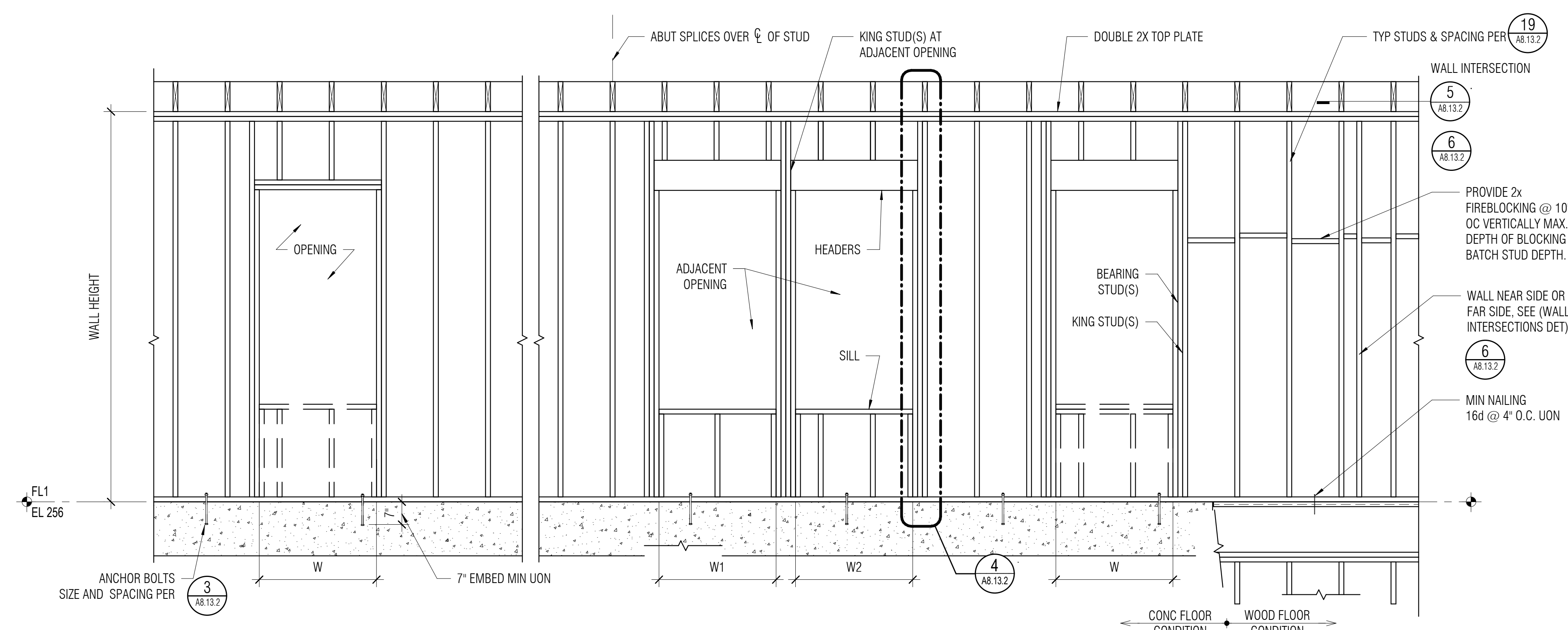


2 PARTITION BRACE PERPENDICULAR TO ROOF JOISTS (PARTITION PARALLEL)
3" = 1'-0"

SHEET NOTES:

- SEE STRUCTURAL DRAWINGS FOR LOAD-BEARING WOOD STUD FRAMING DETAILS.

RFI # 107
NON-BEARING
PARTITION WALL
OPENING APPLIES
TO OPENING INTO
ALCOVE- NORTH
01A AND ALCOVE-
SOUTH 01B



1 TYPICAL WALL FRAMING
1/2" = 1'-0"

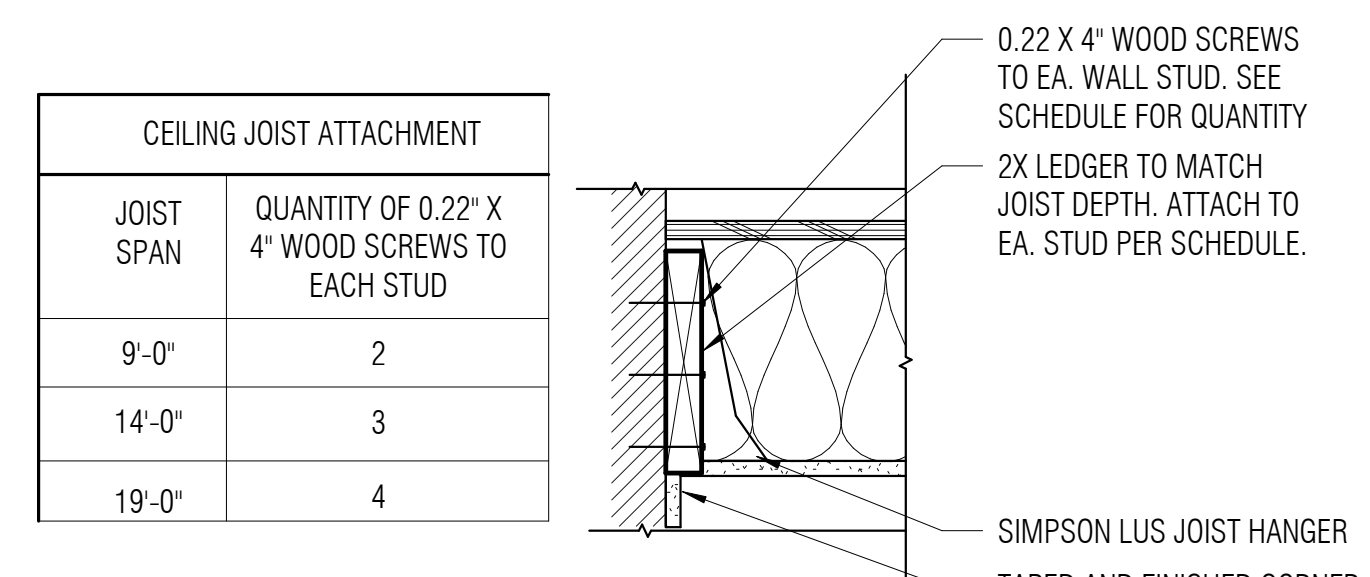
| NON-BEARING PARTITION WALL OPENING SCHEDULE | | | | | | |
|---|--------------|----------------------|--------------|-------------|-----------------|-----------|
| OPENING WIDTH | KING STUD(S) | ADJACENT OPENINGS | | HEADER SIZE | BEARING STUD(S) | SILL SIZE |
| | | COMBINED WIDTH W1+W2 | KING STUD(S) | | | |
| H < 6'-0" | 2-2X SW | 6'-0" MAX | 3-2X SW | 2-2X SW | 1-2X SW | 2-2X SW |
| H < 10'-0" | 2-2X SW | 10'-0" MAX | 3-2X SW | 4-2X SW | 1-2X SW | 2-2X SW |
| H < 20'-0" | 3-2X SW | NONE | NONE | SWX12 | 1 SW | 3-SW |

- NOTES:
1. SW IS DEFINED AS STUD WIDTH
2. INTERNAL 2X HEADER & SILL WITH 10d @ 6" MINIMUM.

| NON-BEARING (L/120, CONVENTIONAL LUMBER, DOUGLAS FIR #2) | | | NON-BEARING (L/120, ENGINEERED LSL STUDS, MOE = 1.6) | | |
|--|-----------|---------|--|-------------|---------|
| WALL HEIGHT | STUD SIZE | SPACING | WALL HEIGHT | STUD SIZE | SPACING |
| H ≤ 14'-0" | 2X4 | 16" | H ≤ 16'-0" | 1.5" X 3.5" | 16" |
| H ≤ 16'-0" | 2X6 | 16" | H ≤ 24'-0" | 1.5" X 5.5" | 16" |
| 15'-0" < H < 24'-0" | 2X6 | 8" | | | |

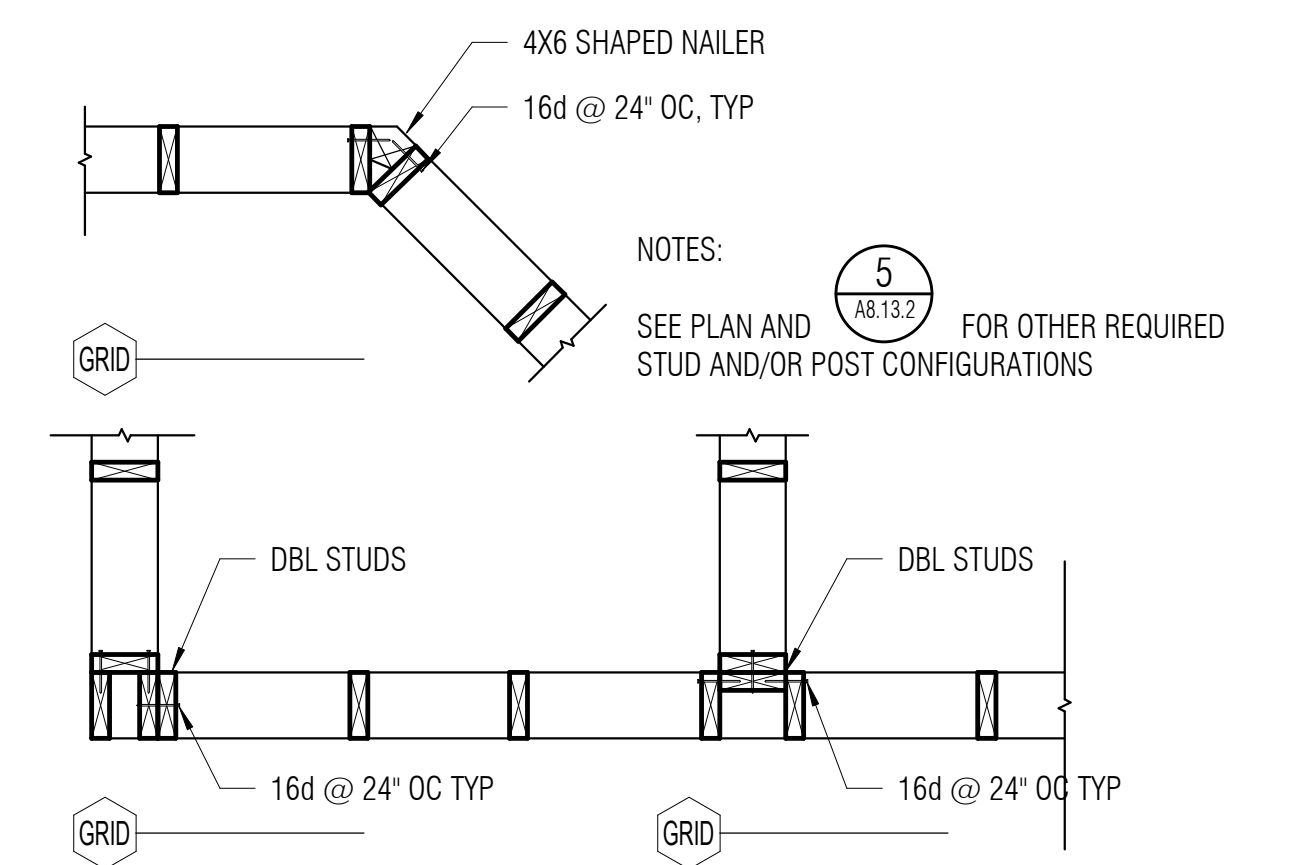
- NOTES:
1. WHERE WALL SHEATHING DOES NOT EXTEND FULL HEIGHT, PROVIDE LATERAL BRACING @ 48" OC MAX
2. WHERE WALL HEIGHTS EXCEED THOSE IN THE CHARTS ABOVE FOR ANY GIVEN STUD SIZE, PROVIDE LATERAL BRACING @ 48" OC MAX AND CONNECTED AT A HEIGHT NOT TO EXCEED THE ABOVE LIMITS. IF WALLS EXTEND TO UNDERSIDE OF STRUCTURE, PROVIDE BRACING ON ONE SIDE OF THE WALL FOR SINGLE LAYER STUDS. IF STAGGERED STUDS ARE USED, BRACING SHALL BE REQUIRED ON BOTH SIDE OF THE WALL.

| TYPE | NO CURB | | | CURB | | |
|------------------|-------------|---------|-------------------|-------------|---------|-------------------|
| | ANCHOR SIZE | SPACING | EMBEDMENT | ANCHOR SIZE | SPACING | EMBEDMENT |
| ANCHOR BOLT | 1/2" DIA | 4'-0" | 3" | 3/8" DIA | 2'-8" | 3" |
| EXPANSION ANCHOR | 1/2" DIA | 4'-0" | 2" (ESR-1917) | 3/8" DIA | 2'-8" | 2" (ESR-1917) |
| SCREW | 1/2" DIA | 4'-0" | 3 1/4" (ESR-2713) | 3/8" DIA | 2'-8" | 2 1/2" (ESR-2713) |
| PAF | 0.145" DIA | 2'-8" | 1/4" (ESR-2379) | | | NOT ALLOWED |

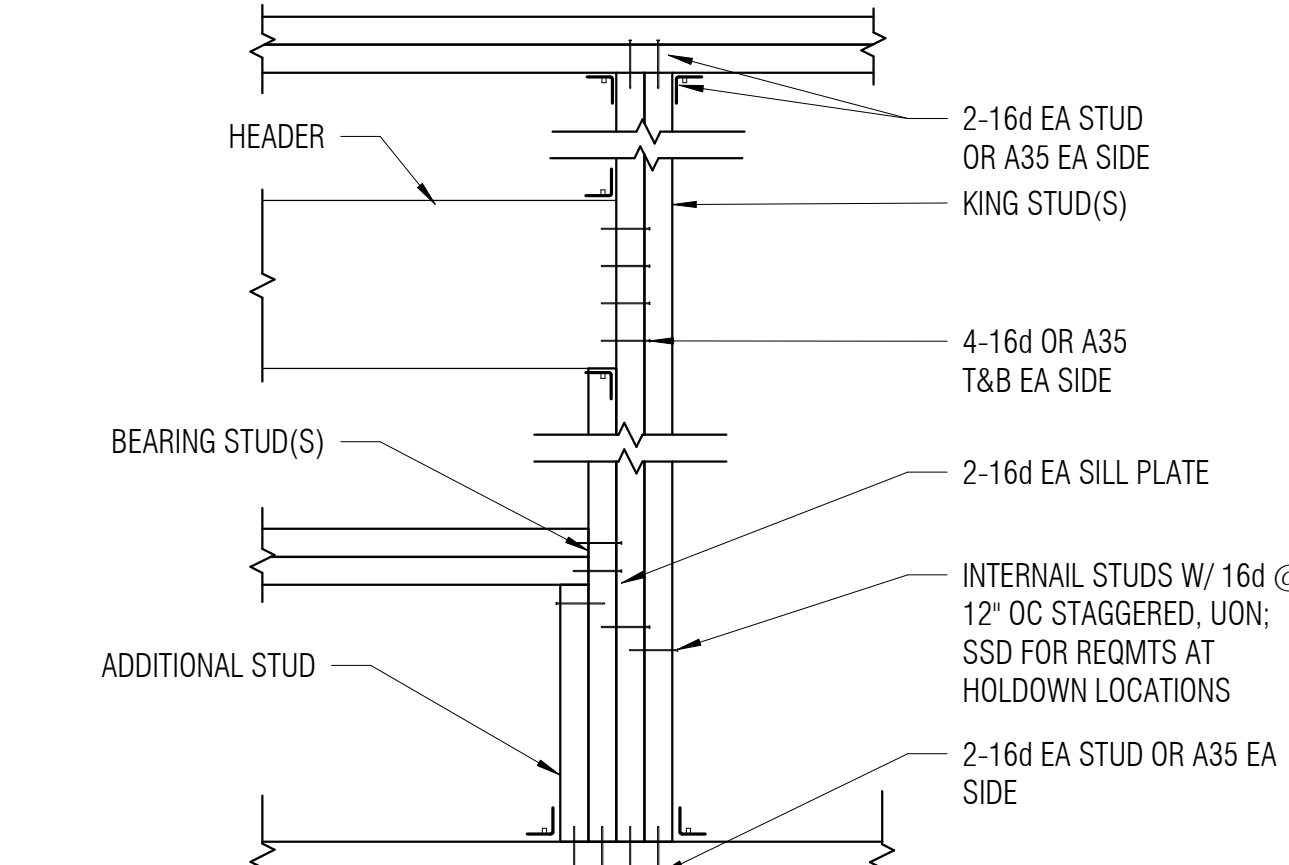


- NOTES:
1. AT CONCRETE OR MASONRY WALL, USE 3/8" DIA EXPANSION ANCHOR WITH 2 1/2" EMBED @ 16" O.C. IN LIEU OF WOOD SCREWS

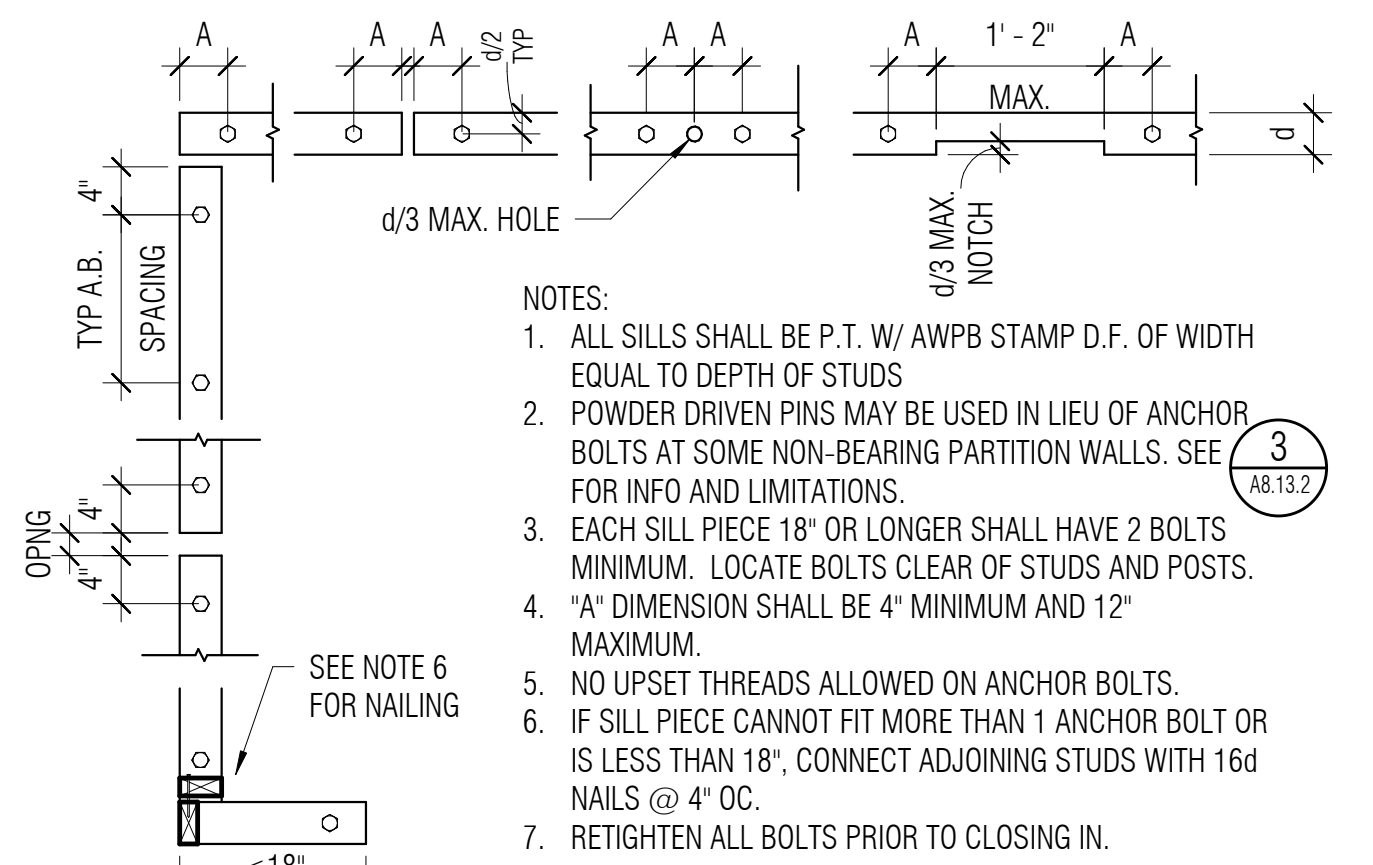
9 TYP CEILING EDGE CONDITIONS DTL
1 1/2" = 1'-0"



6 WALL INTERSECTIONS - PLAN
3/4" = 1'-0"



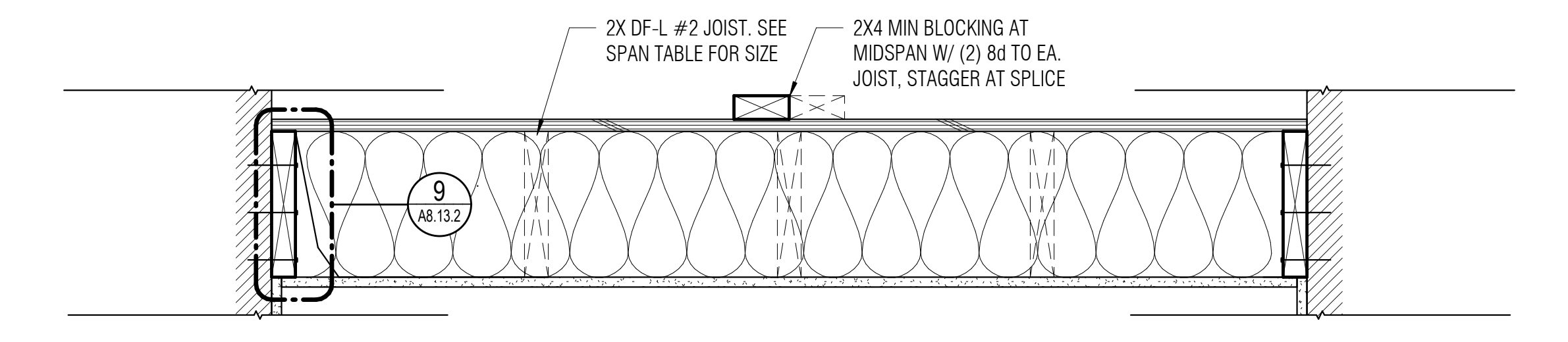
4 NAILING AT WALL OPENING
NOT TO SCALE



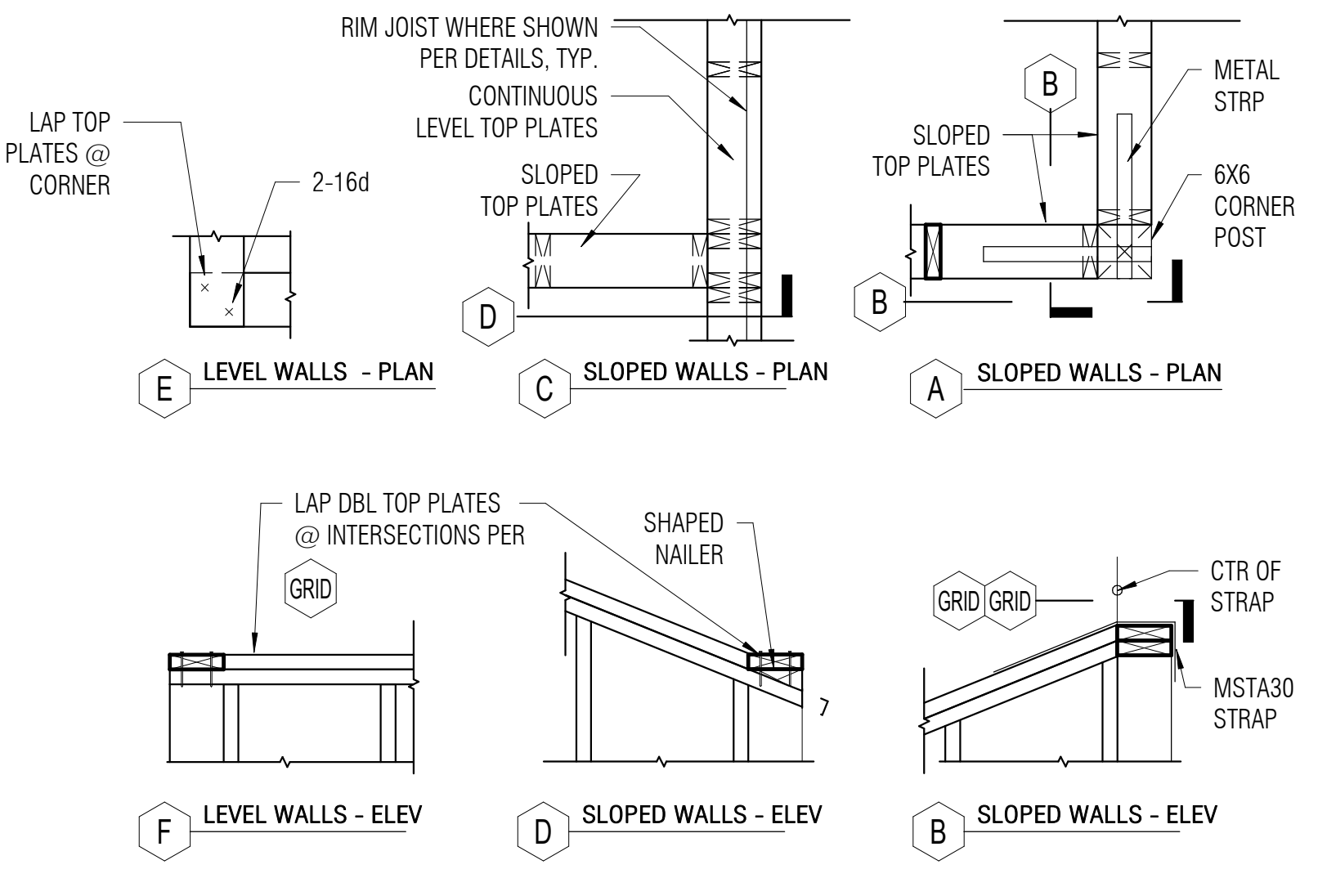
2 ANCHOR BOLT AND SILL PLATE
3/4" = 1'-0"

| CEILING JOIST SPACING | MAXIMUM CEILING JOIST SPANS FOR UNINHABITED SPACES / NO STORAGE DOUGLAS FIR - LARCH #2 | | | |
|-----------------------|--|---------|--------|-------------|
| | MAXIMUM SPAN (DEFLECTION IS A MAX OF L/240) | | | |
| | 2 X 4 | 2 X 6 | 2 X 8 | 2 X 10 |
| 12" | 10'-5" | 19'-6" | 25'-8" | EXCEEDS 26' |
| 16" | 11'-3" | 17'-8" | 2'-8" | EXCEEDS 26' |
| 19.2" | 10'-7" | 16'-7" | 21'-0" | 25'-8" |
| 24" | 9'-10" | 14'-10" | 18'-9" | 22'-11" |

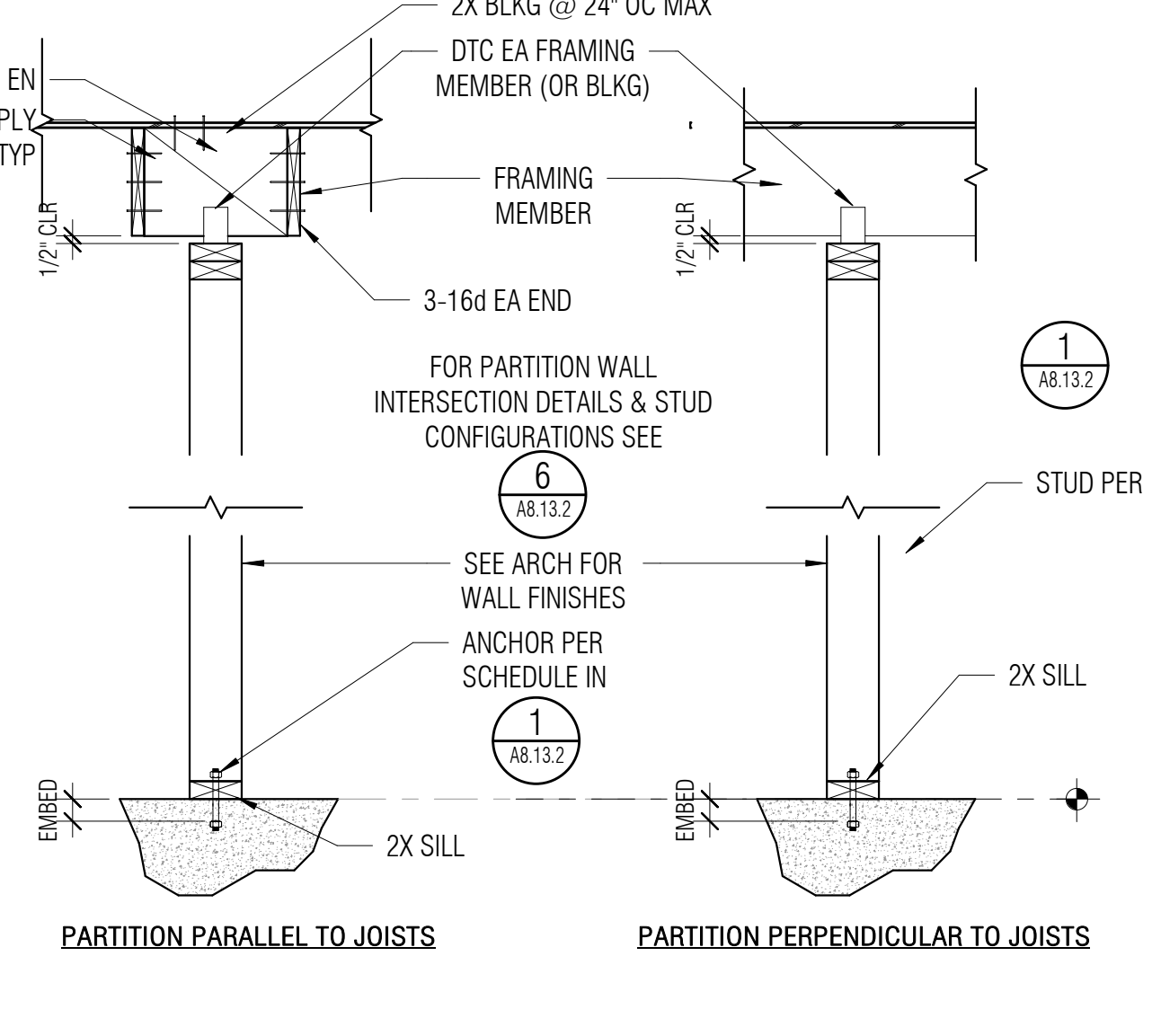
| CEILING JOIST SPACING | MAXIMUM CEILING JOIST SPANS FOR UNINHABITED SPACES / LIMITED STORAGE DOUGLAS FIR - LARCH #2 | | | |
|-----------------------|---|---------|---------|---------|
| | MAXIMUM SPAN (DEFLECTION IS A MAX OF L/240) | | | |
| | 2 X 4 | 2 X 6 | 2 X 8 | 2 X 10 |
| 12" | 9'-10" | 14'-10" | 18'-9" | 22'-11" |
| 16" | 8'-9" | 12'-10" | 16'-3" | 19'-10" |
| 19.2" | 8'-0" | 11'-9" | 14'-10" | 18'-2" |
| 24" | 7'-2" | 10'-6" | 13'-3" | 16'-3" |



7 TYPICAL CEILING JOIST SCHEDULES
NOT TO SCALE



5 TOP PLATE INTERSECTIONS
NOT TO SCALE



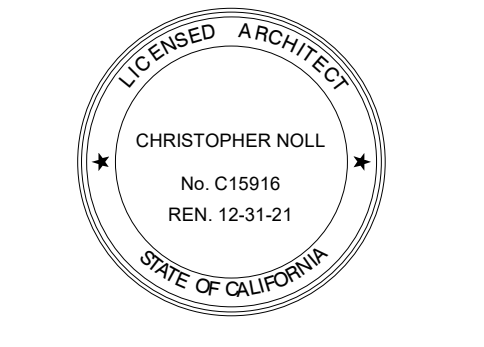
3 NON-BEARING PARTITION CONNECTIONS
1/2" = 1'-0"

APPROVALS

NOLL & TAM ARCHITECTS

729 Heinz Avenue
Berkeley, CA 94710
tel 510.542.2200
fax 510.542.2201

ARCHITECTS SEAL



PROJECT TITLE

**CONTRA COSTA
CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION &
RENOVATION**

1690 Watermill Rd.
San Ramon, CA 94582

RECORD SET:

THESE DRAWINGS HAVE BEEN PREPARED FROM ADDENDUMS, CCD'S, ASIS AND SELECT RFI'S OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM. ONLY A SELECT FEW AS-BUILTS WERE SUBMITTED.

ISSUE TITLE

INCREMENT 2

ISSUE DATE 5/30/2019

NOLL & TAM JOB NUMBER 21630

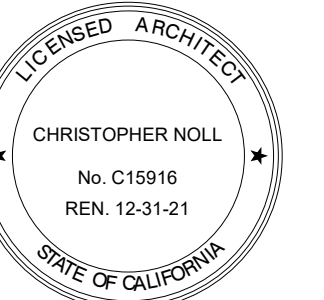
REVISIONS

DATE DESCRIPTION

SHEET TITLE
**INTERIOR DETAILS -
TYP NON-BEARING
WOOD FRAMING**

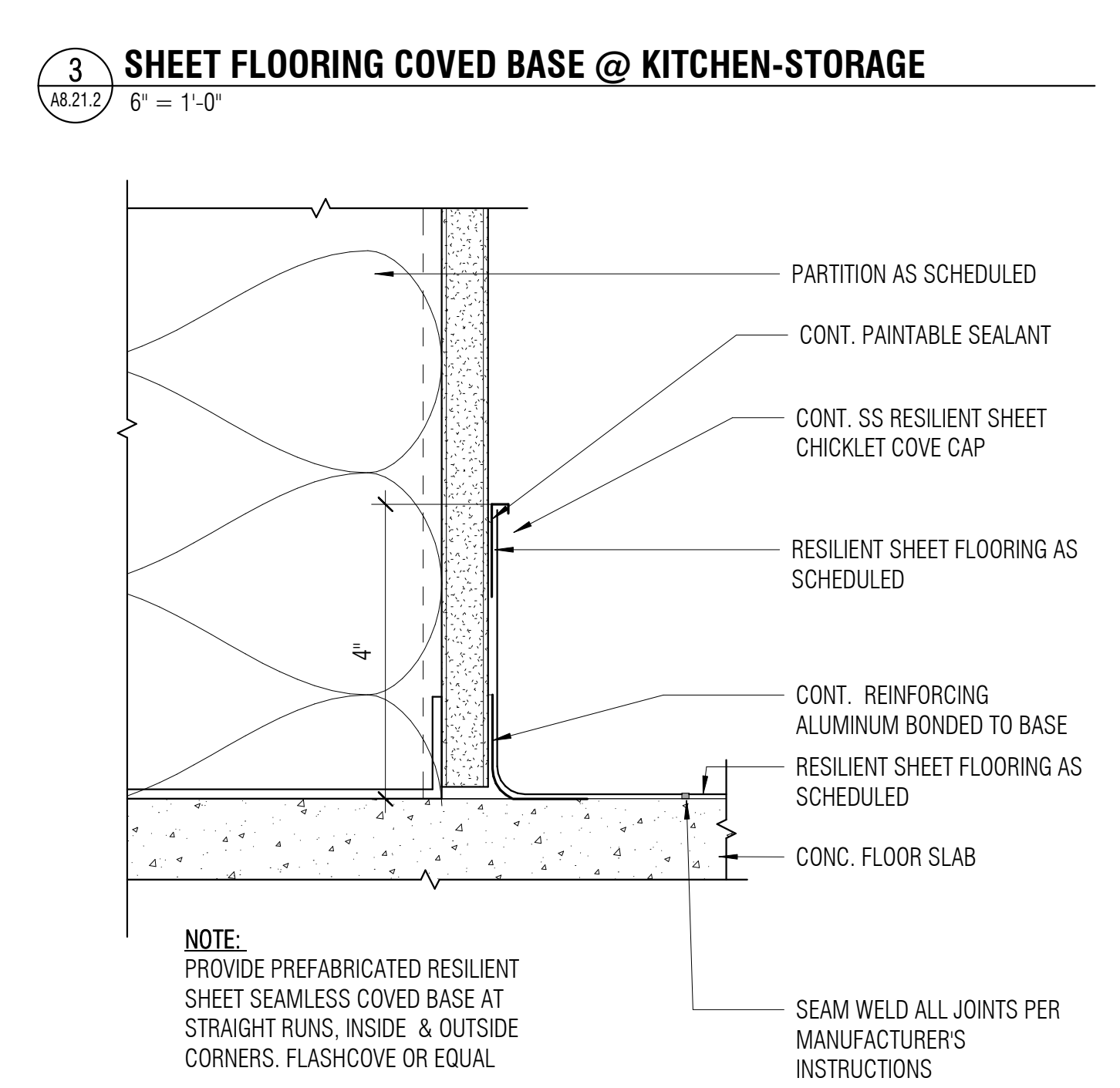
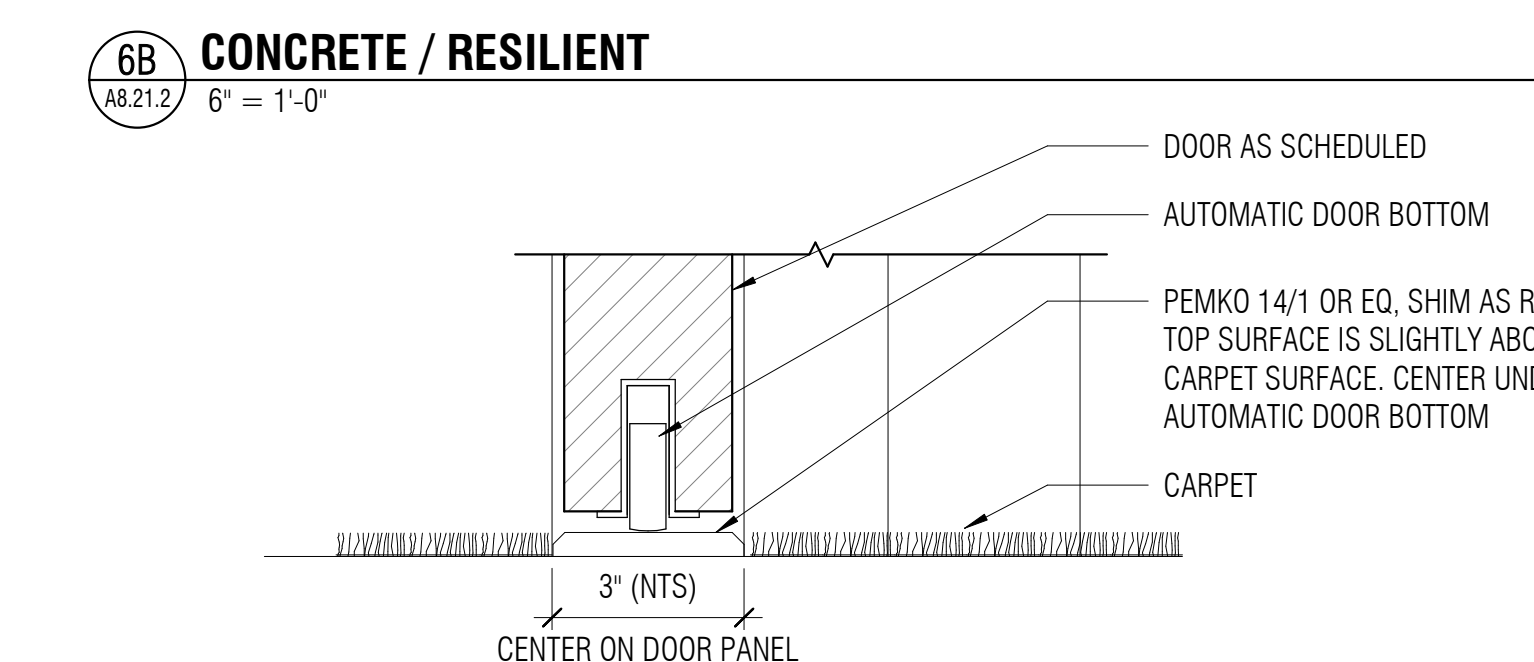
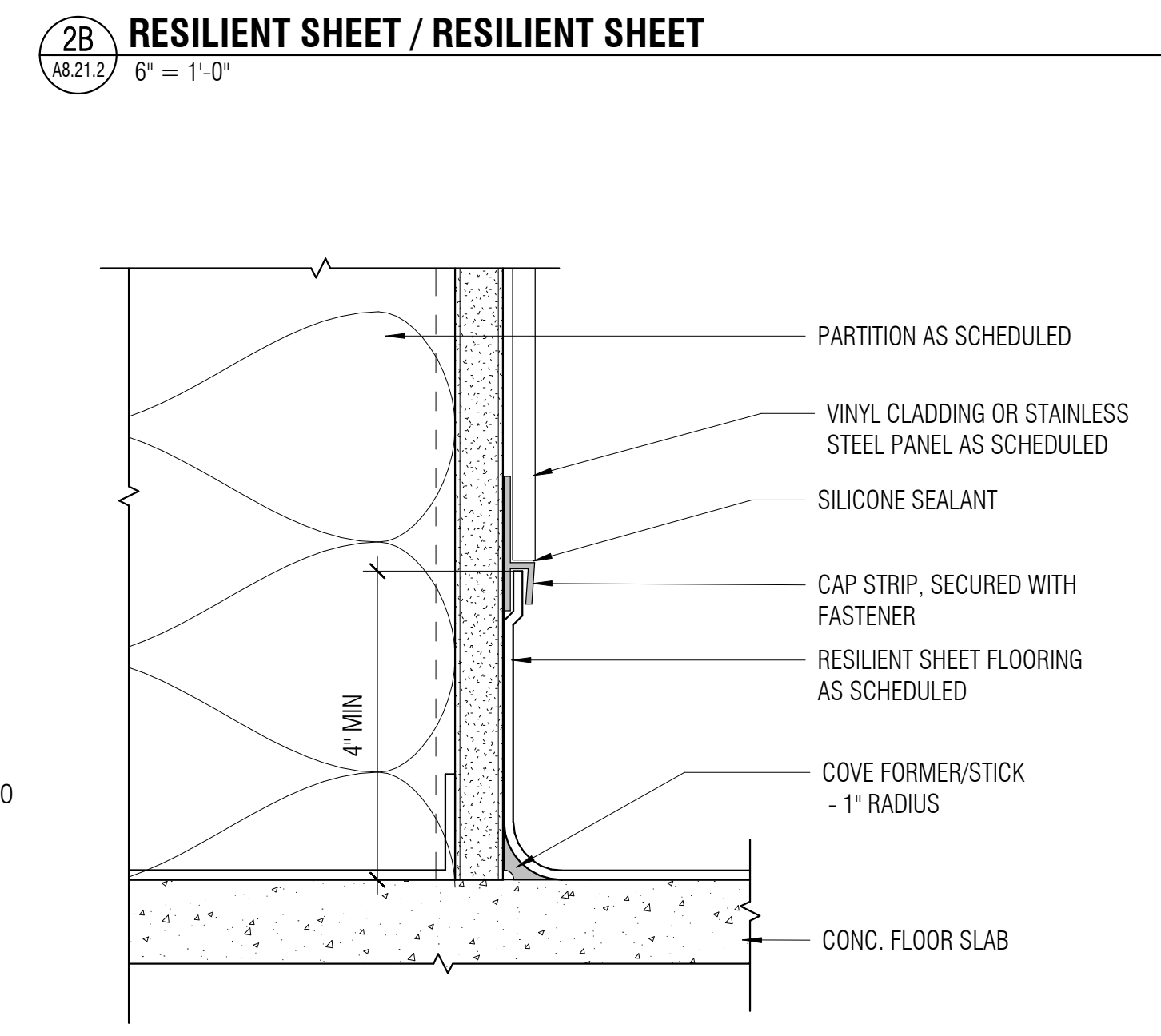
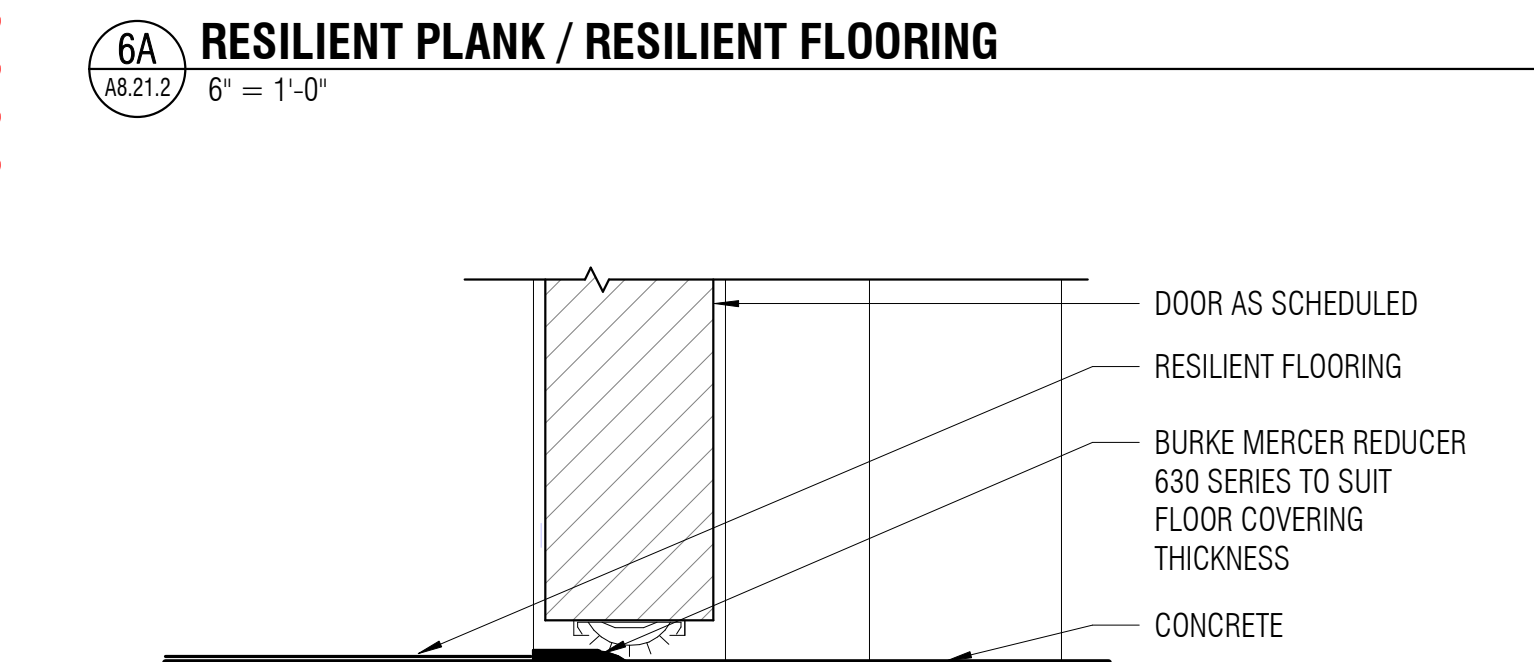
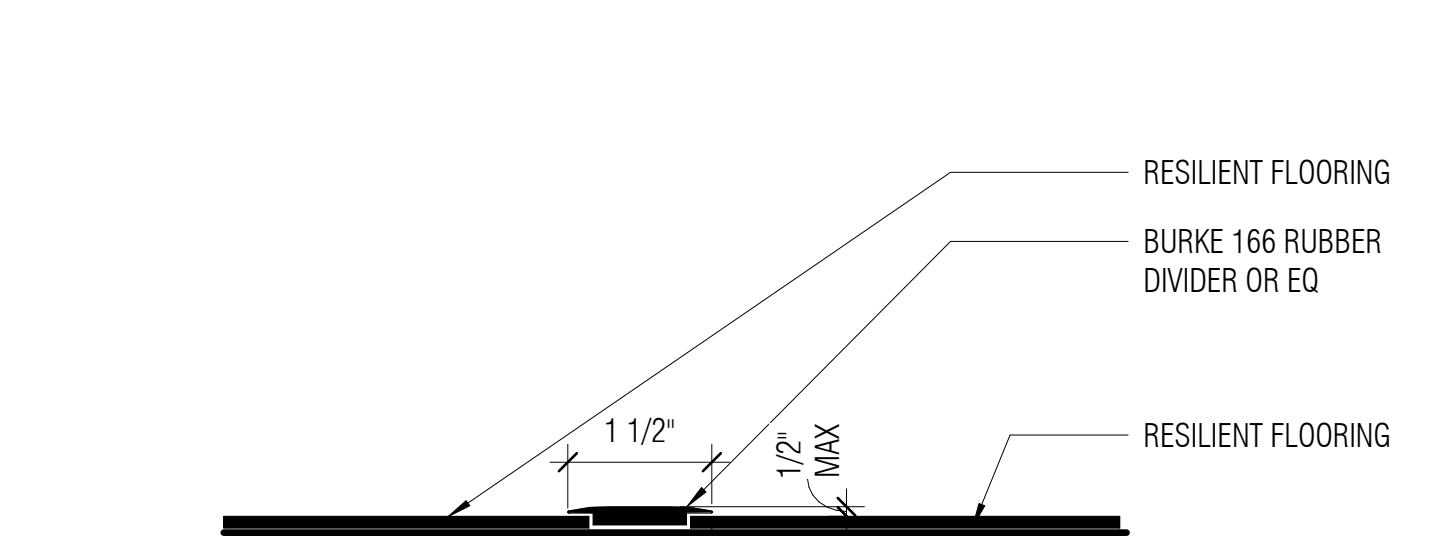
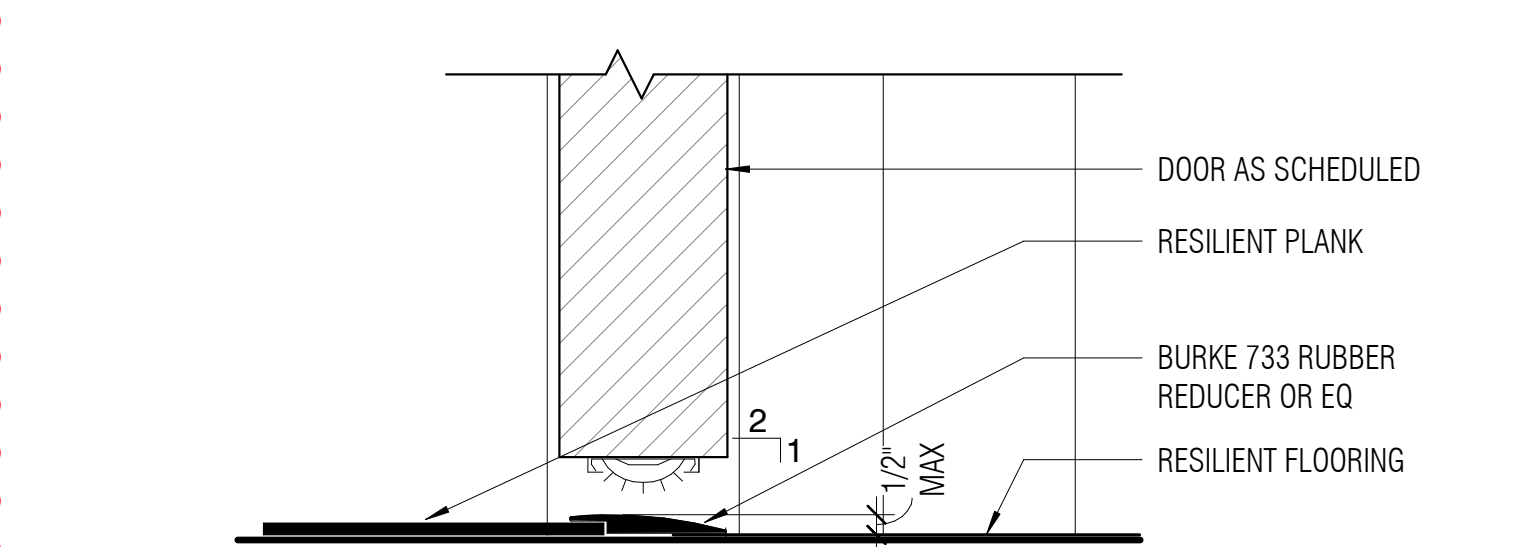
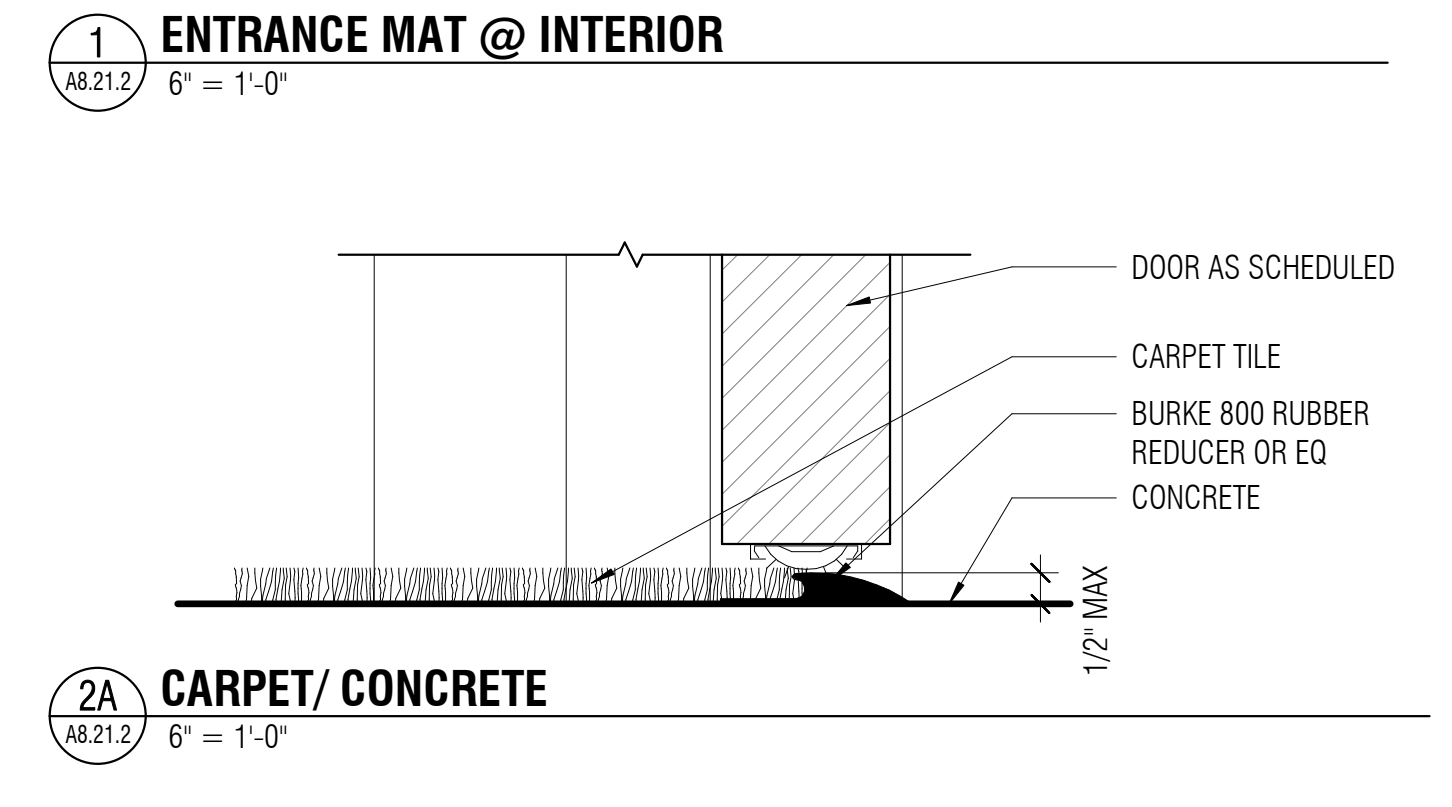
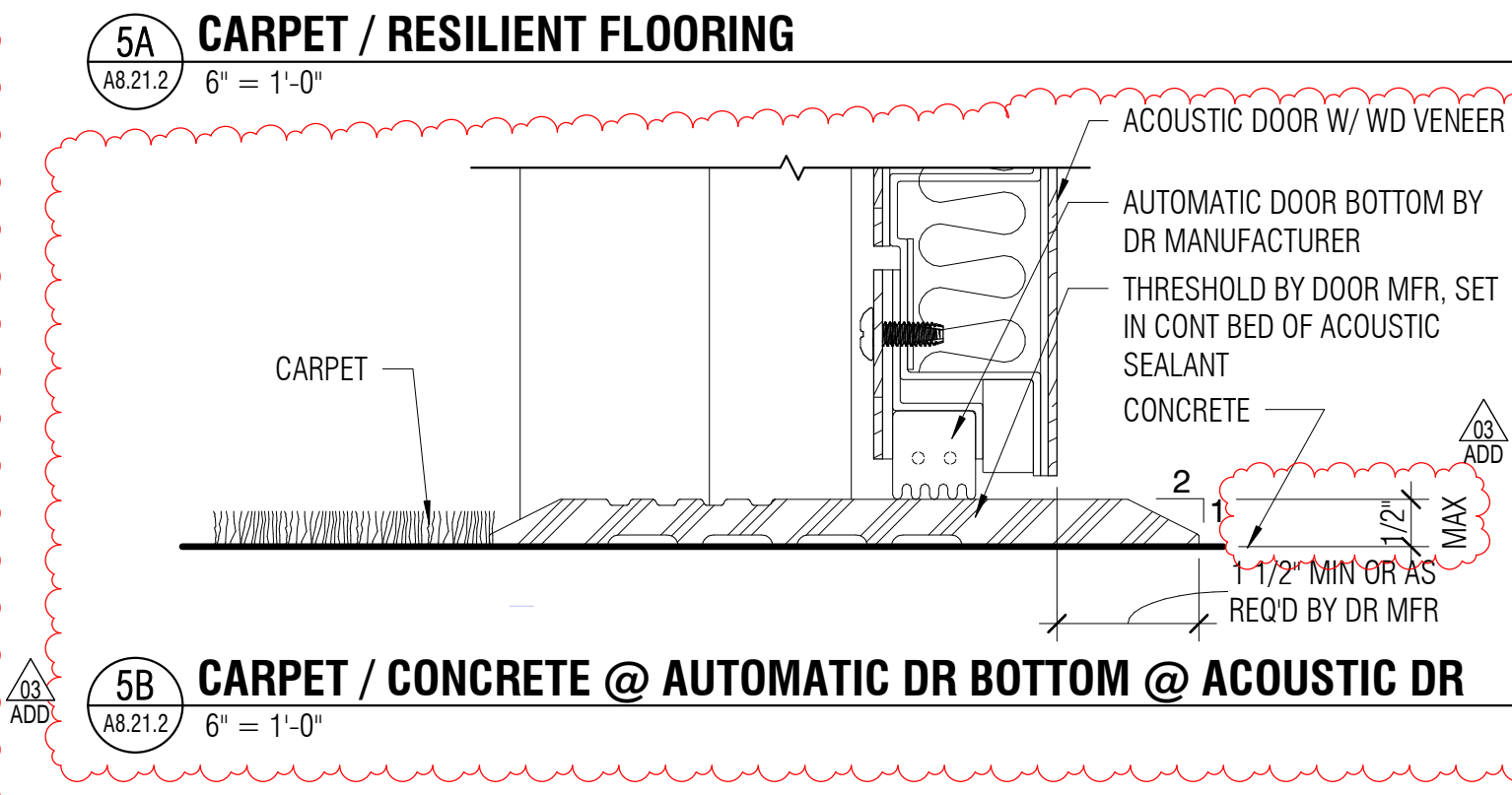
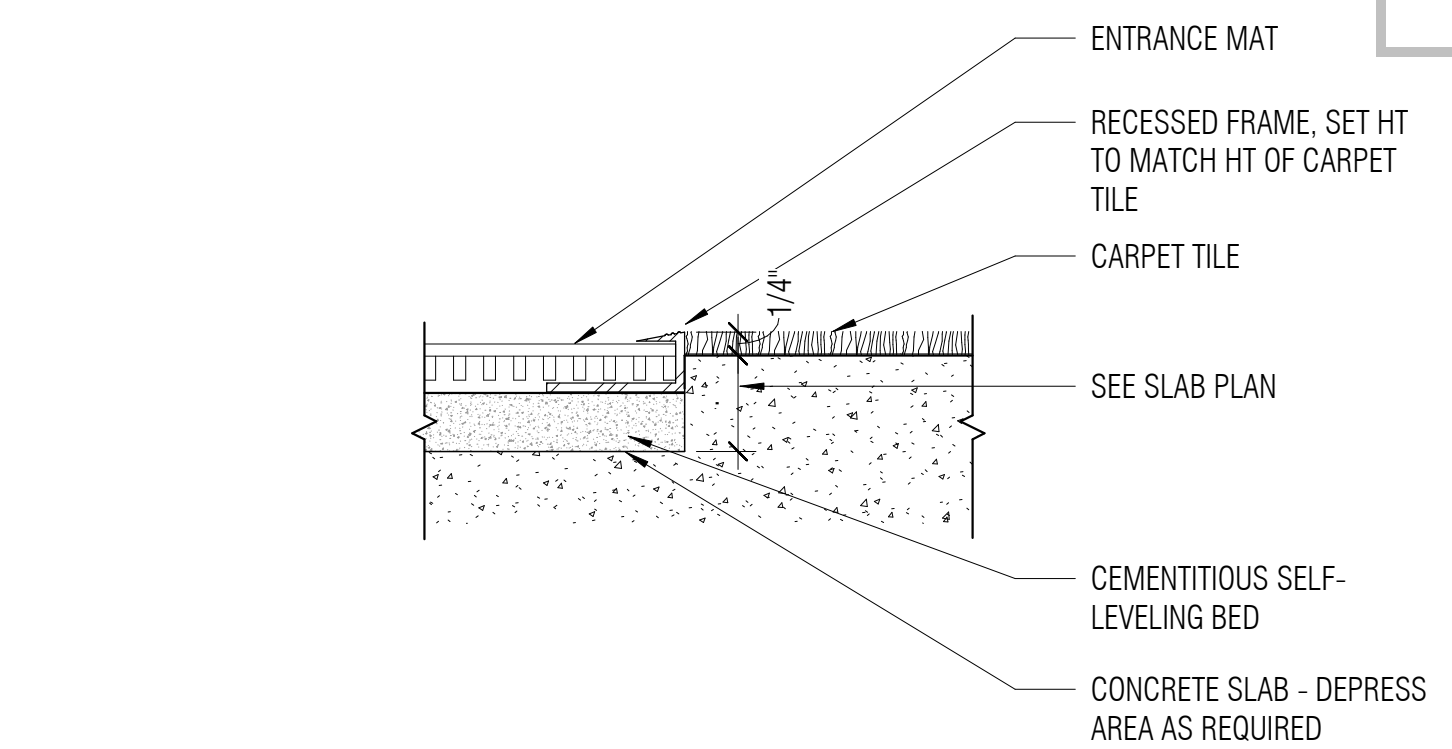
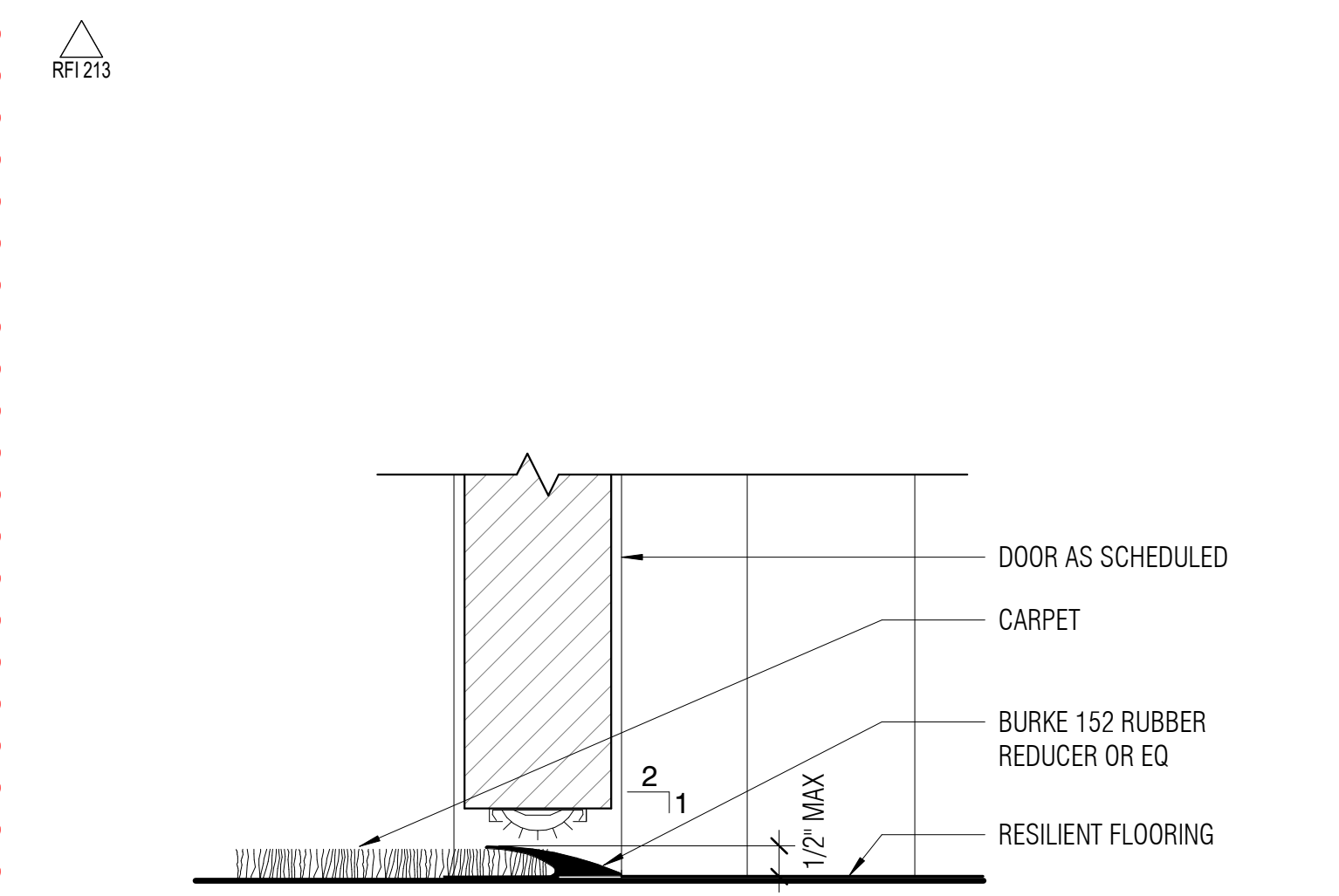
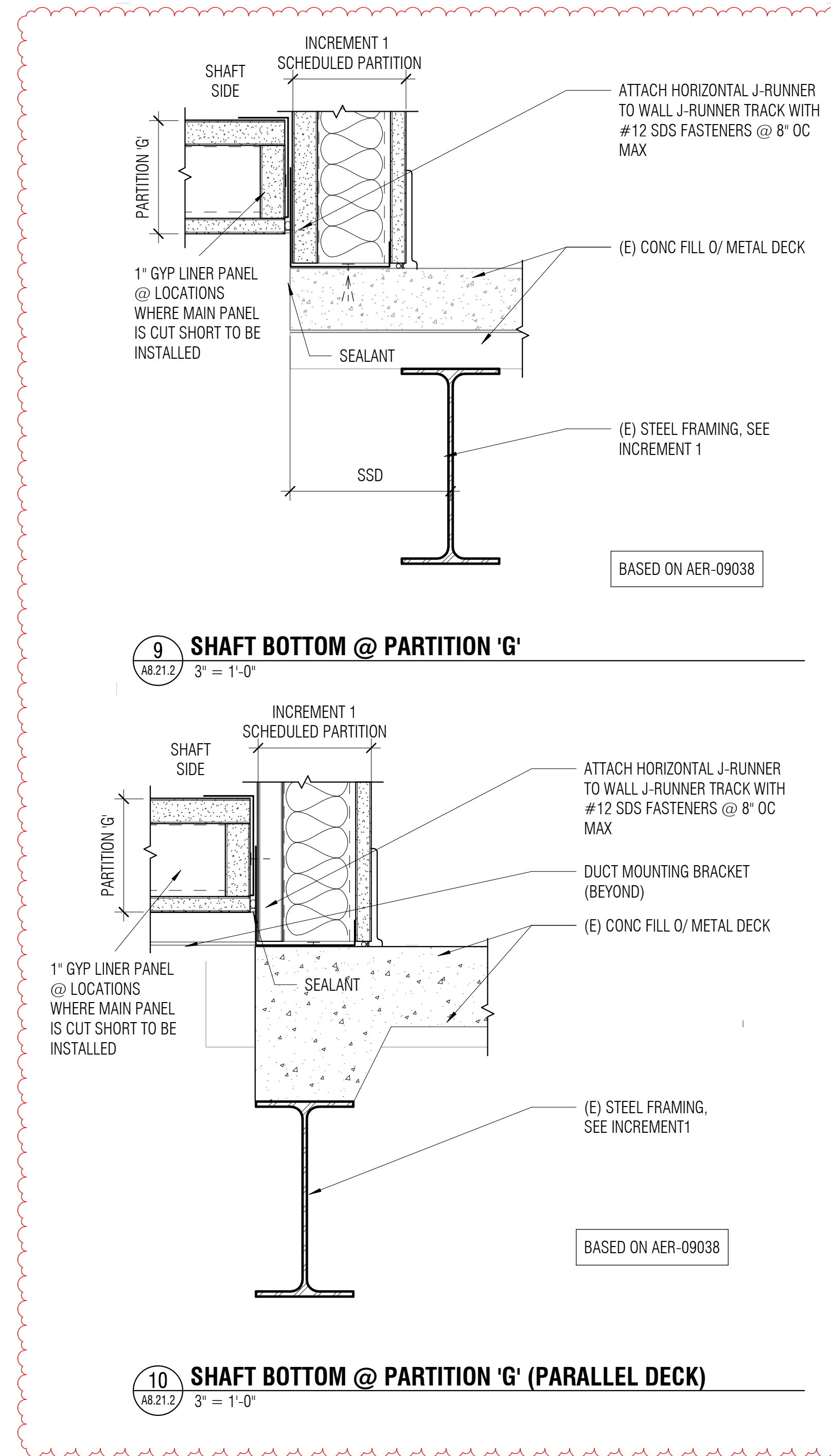
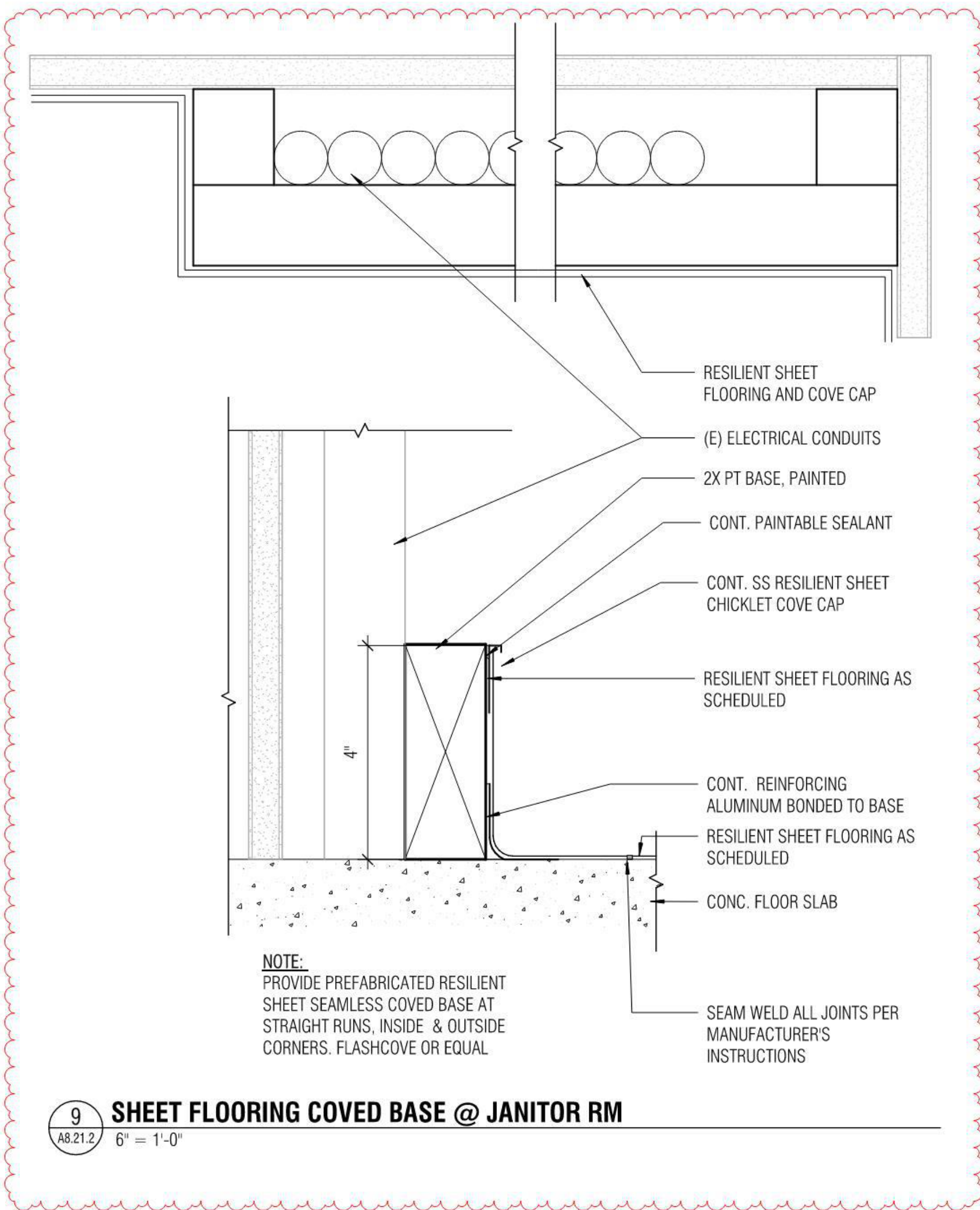
SHEET NUMBER

A8.13.2



THESE DRAWINGS HAVE BEEN PREPARED FROM ADDENDUMS, CCD'S, ASIS AND SELECT RFI'S OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM. ONLY A SELECT FEW AS-BUILTS WERE SUBMITTED.

| REVISIONS | DATE | DESCRIPTION |
|-----------|-------------------------|-------------|
| 8/27/19 | INC 2 - ADDENDUM 03 | |
| 10/15/19 | INC 2 - ADDENDUM 03 REV | |
| 11/12/21 | INC2 RFI 213 | |



ASI #29

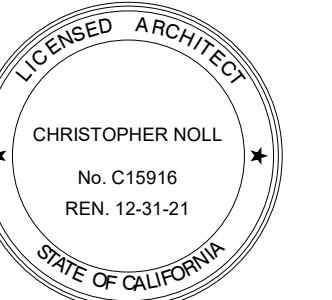
SUSPENDED ACOUSTICAL CEILING GENERAL NOTES

1. DETAILS APPLY TO FLAT AND LEVEL CEILING SYSTEMS WHOSE TOTAL WEIGHT (INCLUDING CEILING MOUNTED AIR TERMINALS, SERVICES AND LIGHT FIXTURES) DOES NOT EXCEED 4 PSF.
2. EXPANSION JOINTS SHALL BE PROVIDED IN THE CEILING INTERSECTIONS OF CORRIDORS AND JUNCTIONS OF CORRIDORS WITH LOBBIES OR OTHER SIMILAR AREAS.
3. FOR CEILING AREAS EXCEEDING 2,500 SQ FT A SEISMIC SEPARATION JOINT SHALL BE PROVIDED TO DIVIDE THE CEILING INTO AREAS NOT EXCEEDING 2,500 SQ FT.
4. 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 2" OVERSIZE RING, SLEEVE, OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FREE MOVEMENT OF 1" IN ALL HORIZONTAL DIRECTIONS.
5. SUPPORT SURFACE MOUNTED LIGHT FIXTURES BY AT LEAST 2 POSITIVE DEVICES WHICH SURROUND THE CEILING RUNNER AND WHICH ARE EACH SUPPORTED FROM THE STRUCTURE ABOVE BY #12 GAGE WIRE. SPRING CLIPS OR CLAMPS THAT CONNECT ONLY TO THE RUNNER ARE NOT ACCEPTABLE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE 8 FT OR LONGER. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED 8 FT.
6. SUPPORT PENDANT MOUNTED LIGHT FIXTURES DIRECTLY FROM THE STRUCTURE ABOVE WITH HANGER WIRES OR CABLES PASSING THROUGH EACH PENDANT HANGER AND CAPABLE OF SUPPORTING 2 TIMES THE WEIGHT OF THE FIXTURE. A BRACING ASSEMBLY IS REQUIRED WHERE THE PENDANT HANGER PENETRATES THE CEILING. SPECIAL DETAILS ARE REQUIRED TO ATTACH THE PENDANT HANGER TO THE BRACING ASSEMBLY TO TRANSMIT HORIZONTAL FORCE. IF THE PENDANT MOUNTED LIGHT FIXTURE IS DIRECTLY AND INDEPENDENTLY BRACED BELOW THE CEILING (FOR EXAMPLE, AIRCRAFT CABLES TO WALLS) THEN BRACE ASSEMBLY IS NOT REQUIRED ABOVE THE CEILING.

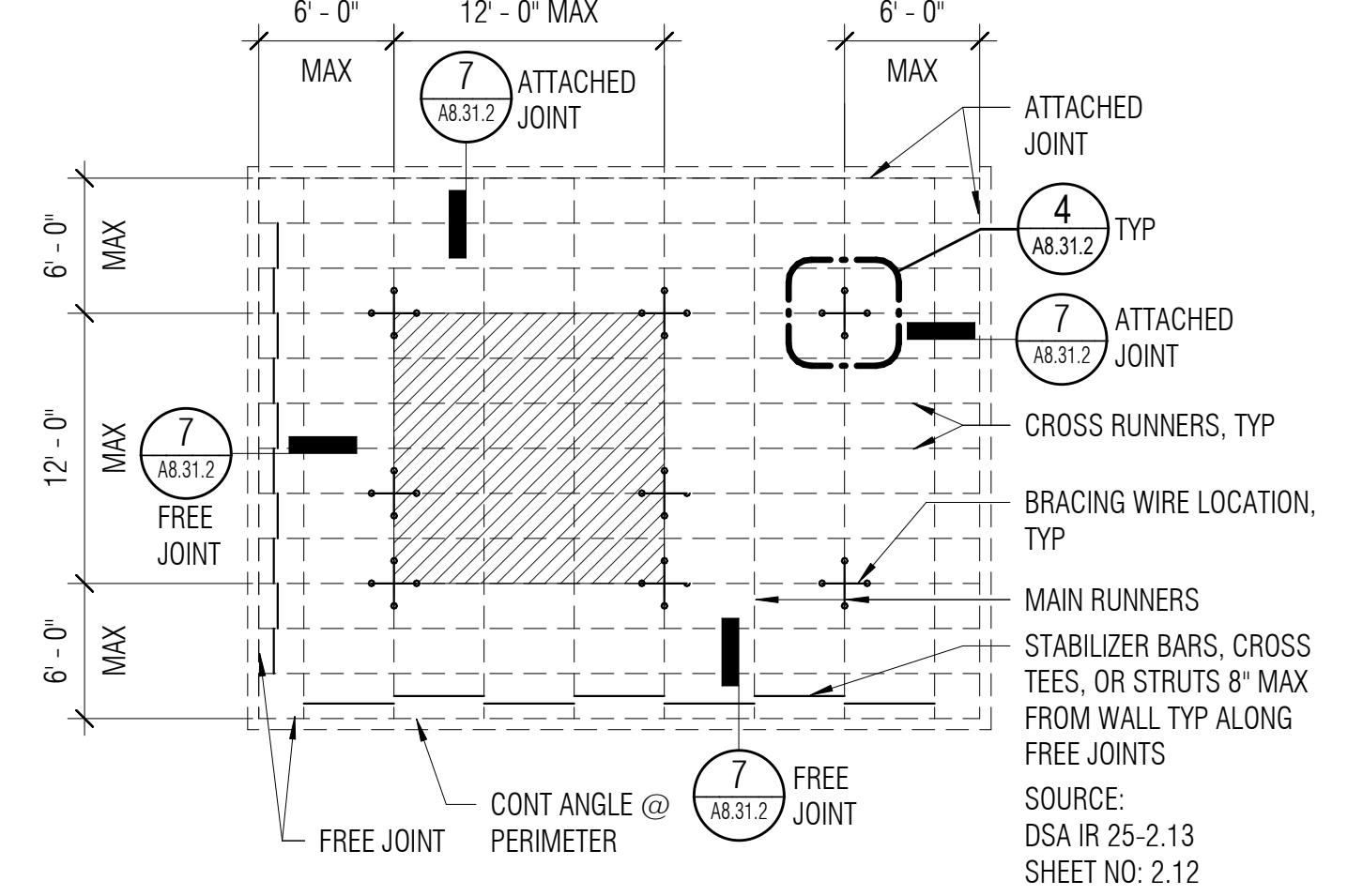
NOLL & TAM ARCHITECTS

729 Heinz Avenue
Berkeley, CA 94710
tel 510.542.2200
fax 510.542.2201

ARCHITECTS SEAL

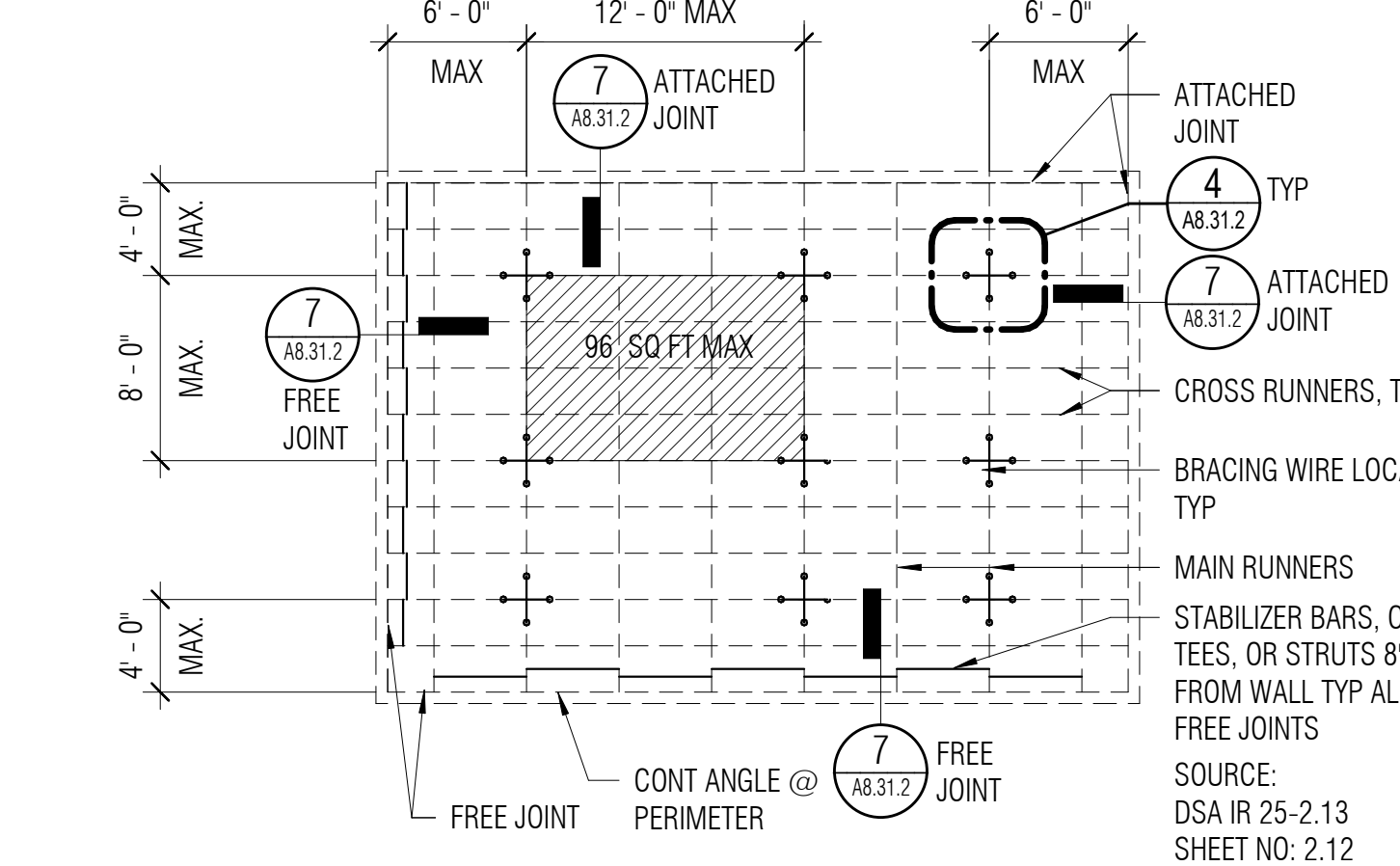


- NOTE:
1. PLAN SCHEMATIC ONLY - SEE RCP FOR CEILING LAYOUT.
 2. BRACING WIRES AND COMPRESSION STRUT SHALL OCCUR AT EVERY 144 SQ FT MAX IN ROOMS OVER 144 SQ FT.
 3. WHERE PERIMETER SEISMIC CLIPS ARE USED, STABILIZER BARS ARE NOT REQUIRED. FOR DETAILS SEE 8 / A8.31.2
 4. FOR COMPRESSION STRUTS REFER TO SHEET A8.32.2

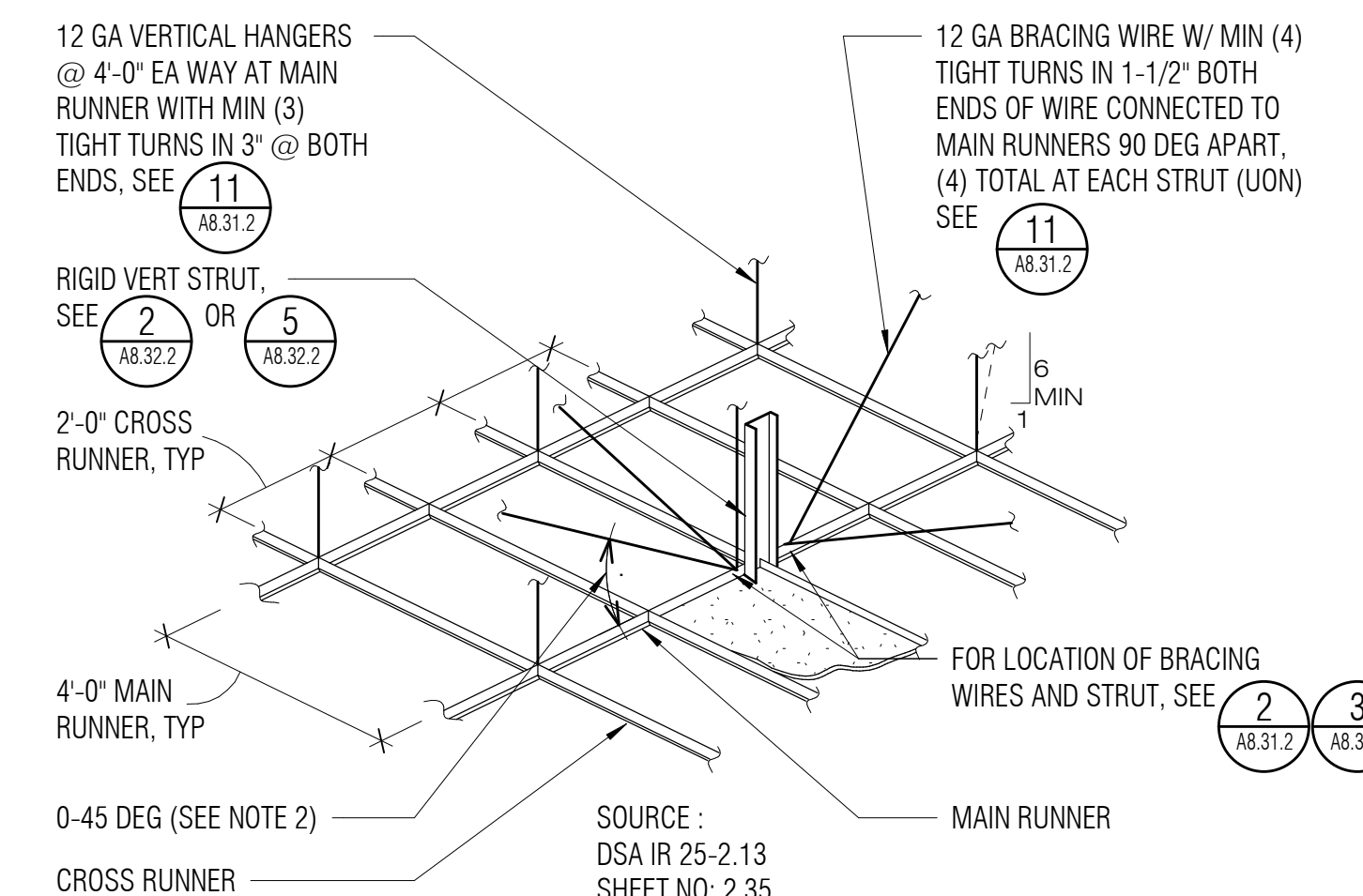


1ST FLR @ (E) BLDG - TYP CLG PLAN - 12' X 12' BRACE ASSEMBLY

- NOTE:
1. PLAN SCHEMATIC ONLY - SEE RCP FOR CEILING LAYOUT.
 2. BRACING WIRES AND COMPRESSION STRUT SHALL OCCUR AS INDICATED BELOW IN ALL ROOMS OVER 144 SQ FT.
 3. WHERE PERIMETER SEISMIC CLIPS ARE USED, STABILIZER BARS ARE NOT REQUIRED. FOR DETAILS SEE 8 / A8.31.2
 4. FOR COMPRESSION STRUTS REFER TO SHEET A8.32.2



2ND FLR & LLRC - TYP CEILING PLAN - 8' X 12' BRACE ASSEMBLY



- NOTE:
1. STRUTS SHALL NOT REPLACE HANGER WIRES.
 2. THE MINIMUM ACCEPTABLE ANGLE IS DETERMINED SUCH THAT THE WIRES DO NOT INTERFERE WITH THE RUNNERS, LIGHT FIXTURES, ETC AND REMAIN STRAIGHT AND UNOBSTRUCTED
 3. FOR 2X2 GRID, ADD ADDITIONAL RUNNERS EVERY 2'

PROJECT TITLE

CONTRA COSTA CCD D-4002 DVC SAN RAMON CAMPUS EXPANSION & RENOVATION

1690 Watermill Rd.
San Ramon, CA 94582

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ISSUE TITLE

INCREMENT 2

ISSUE DATE: 5/30/2019

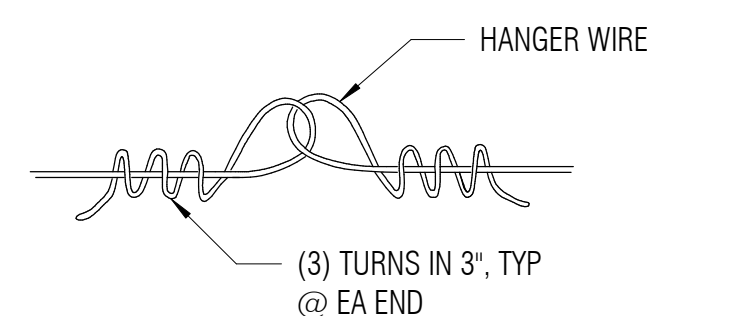
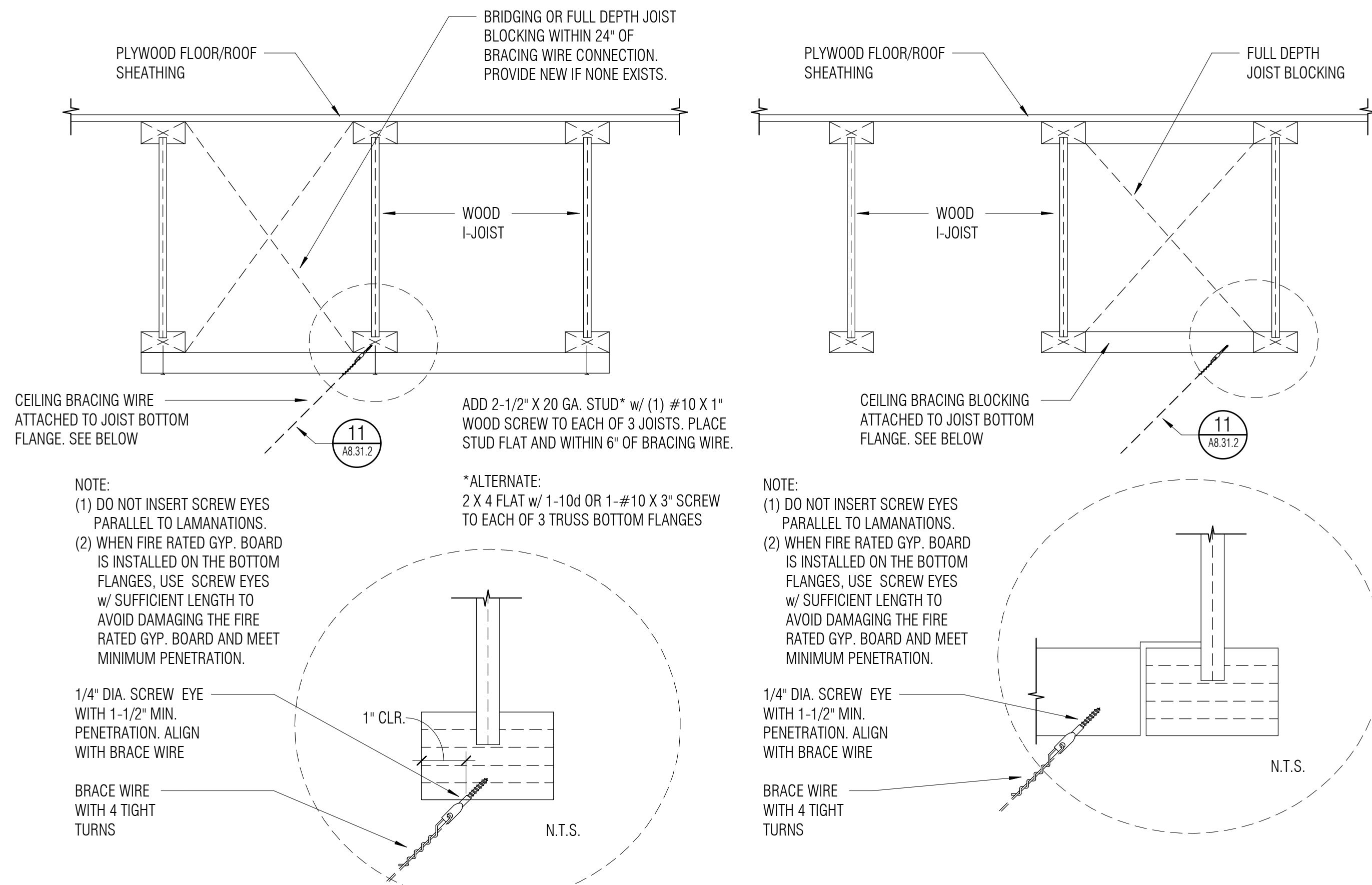
NOLL & TAM JOB NUMBER: 21630

REVISIONS: DATE DESCRIPTION

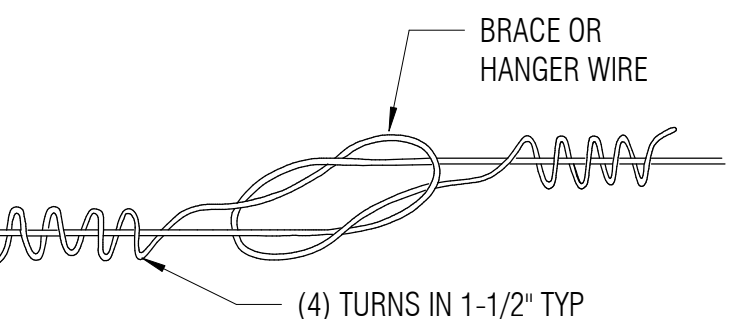
SHEET TITLE: **INTERIOR CEILING DETAILS**

SHEET NUMBER

A8.31.2



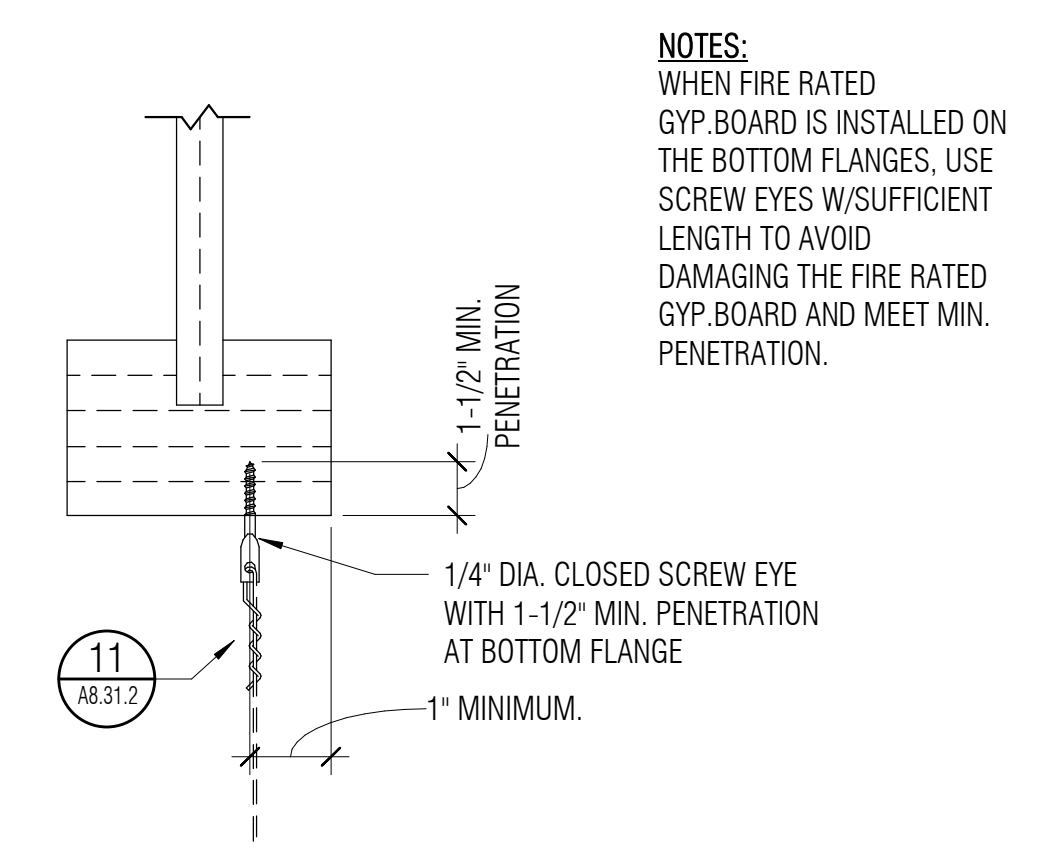
HANGER WIRE ONLY



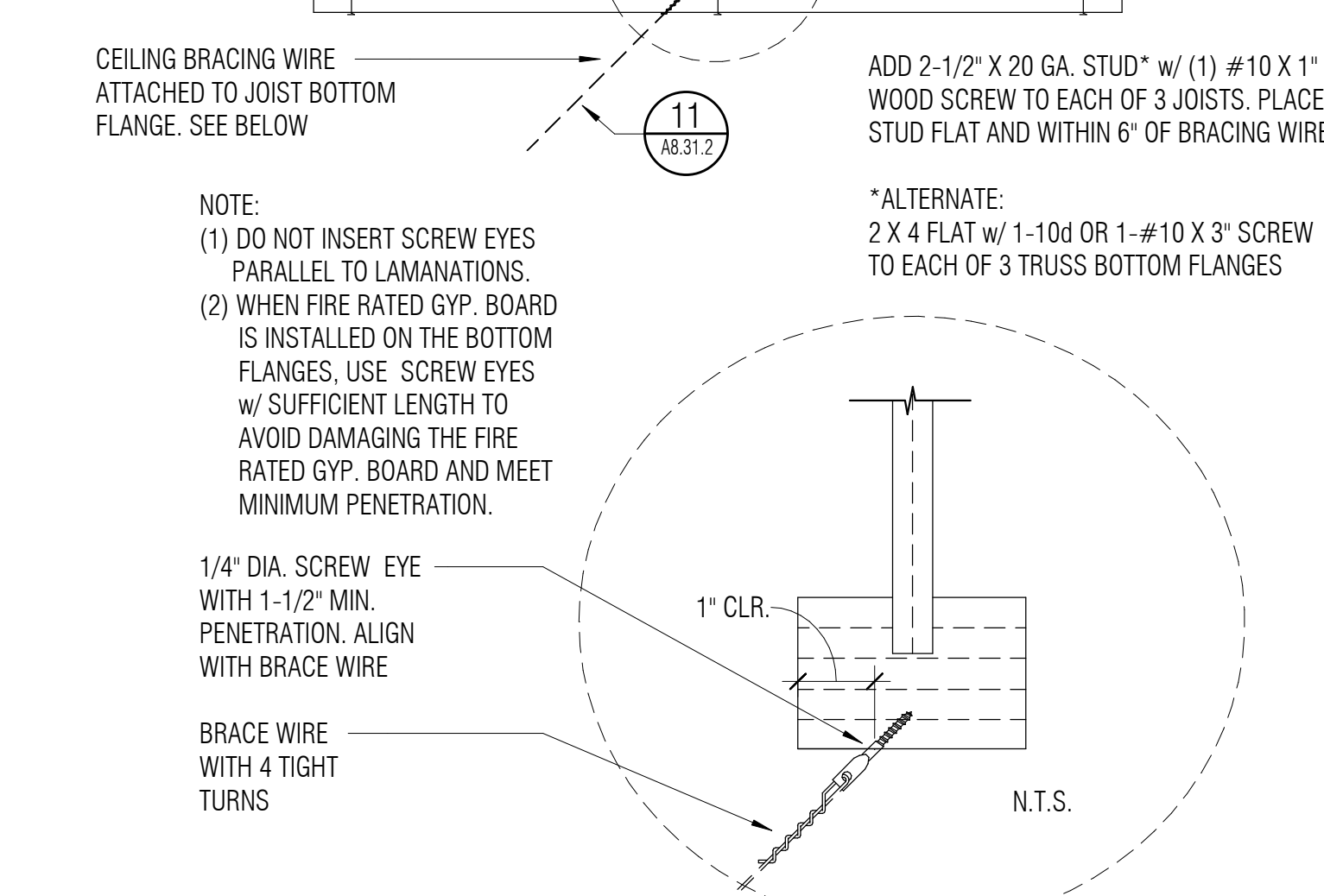
HANGER OR BRACE WIRE

- NOTES:
1. WIRE SPLICES ARE SHOWN LOOSELY TIED FOR ILLUSTRATIVE PURPOSES ONLY AND SHALL BE DRAWN TIGHT TO COMPLETE INSTALLATION WHEN CONSTRUCTED.

SOURCE: DSA IR 25-2.13 SHEET NO. 6.10



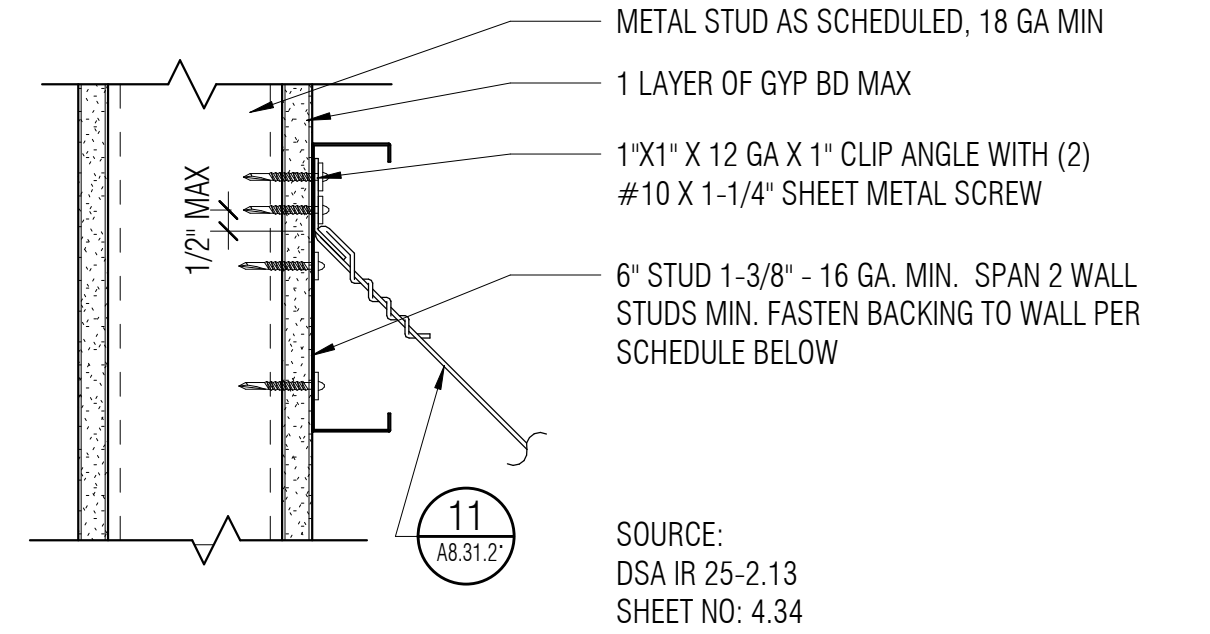
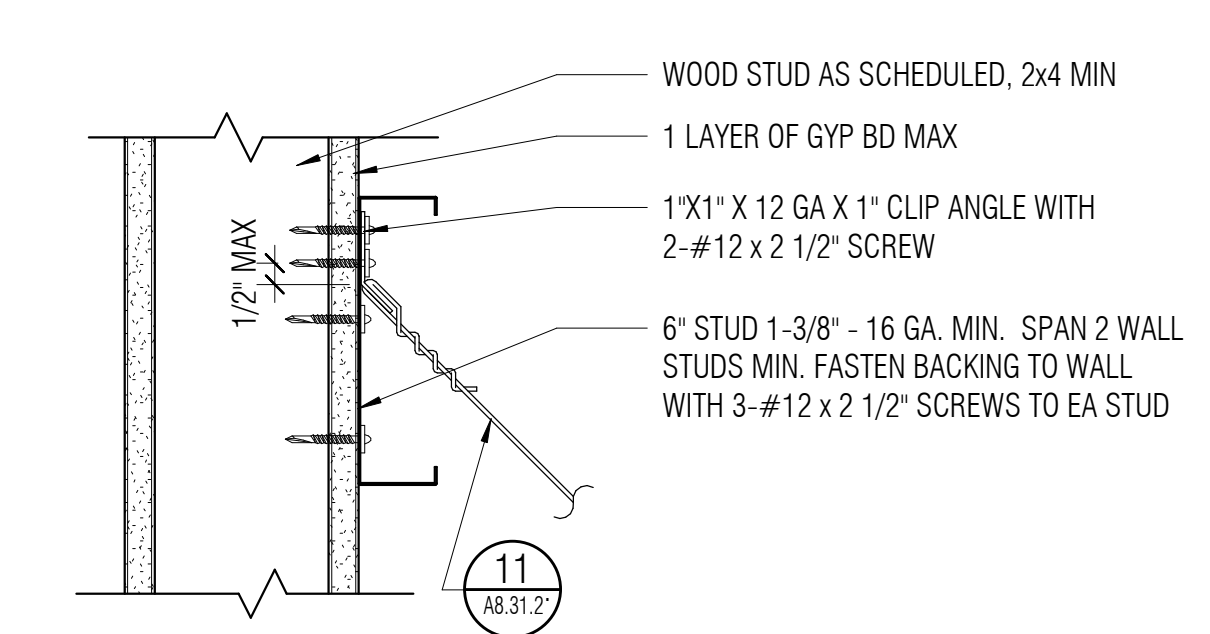
17 HANGER WIRE CONNECTION TO WOOD I JOIST



13 BRACING WIRE CONNECTION TO WOOD I - JOIST

SOURCE: DSA IR 25-2.13, SHEET NO. 4.36, 4.37

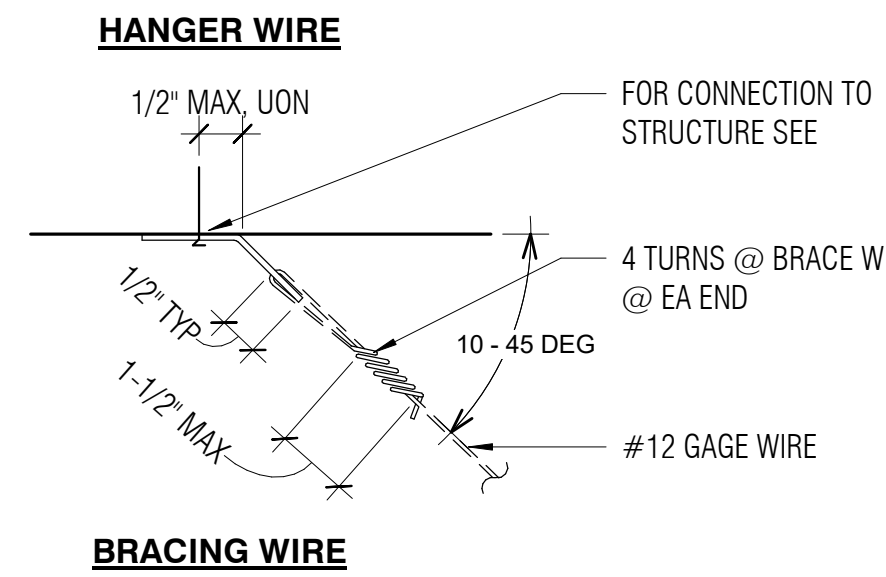
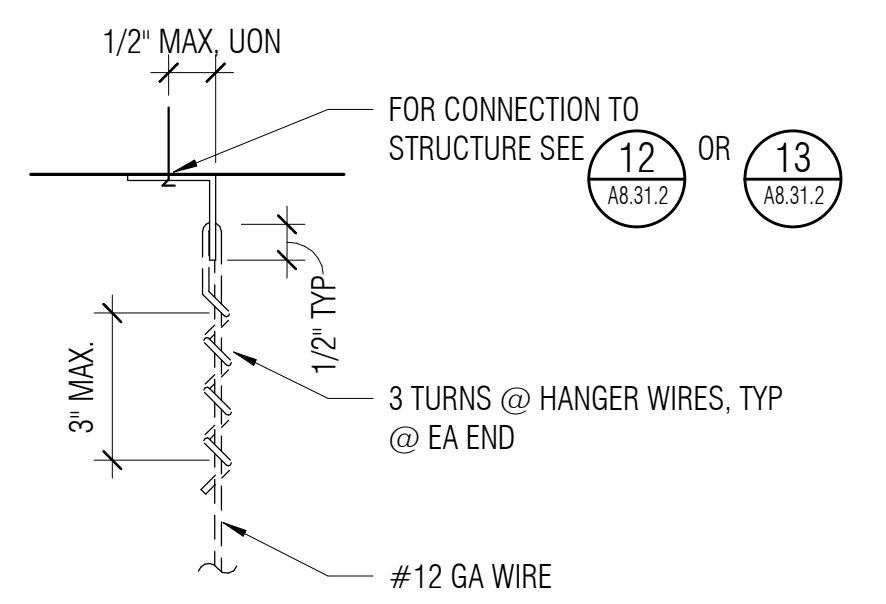
5 CEILING WIRE SPLICES



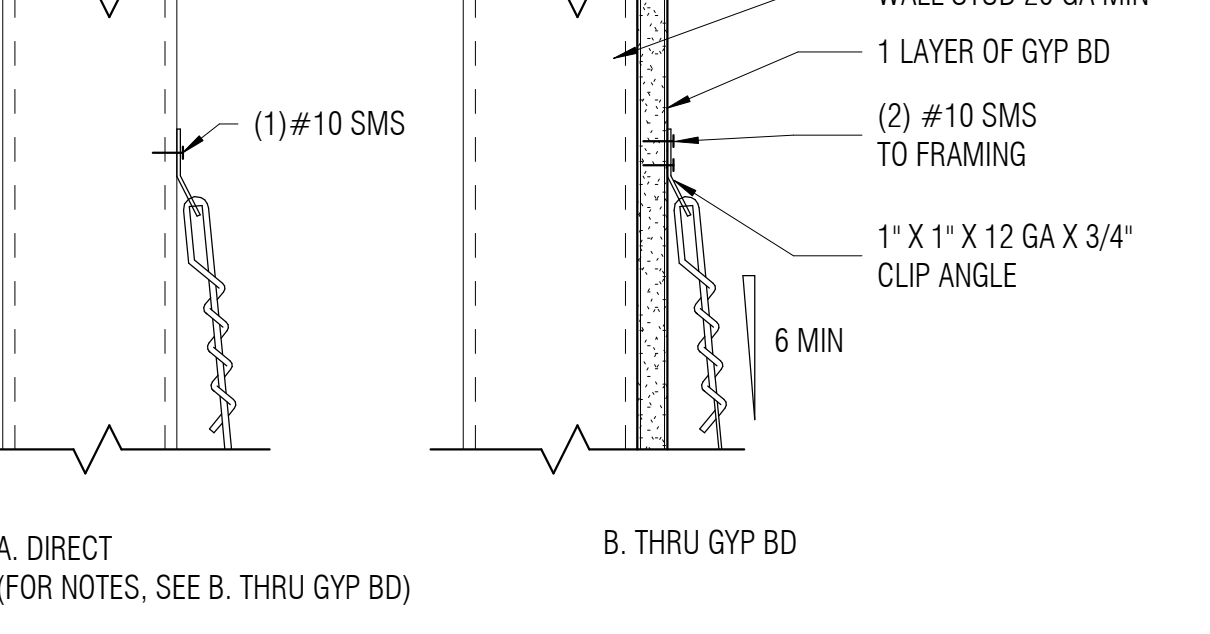
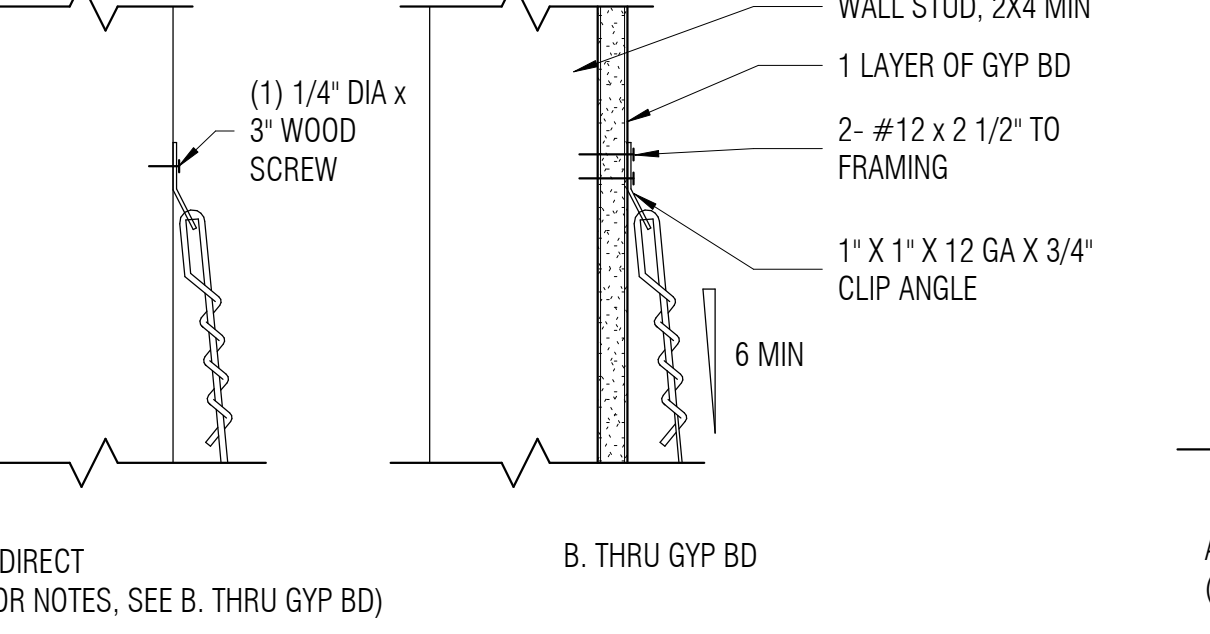
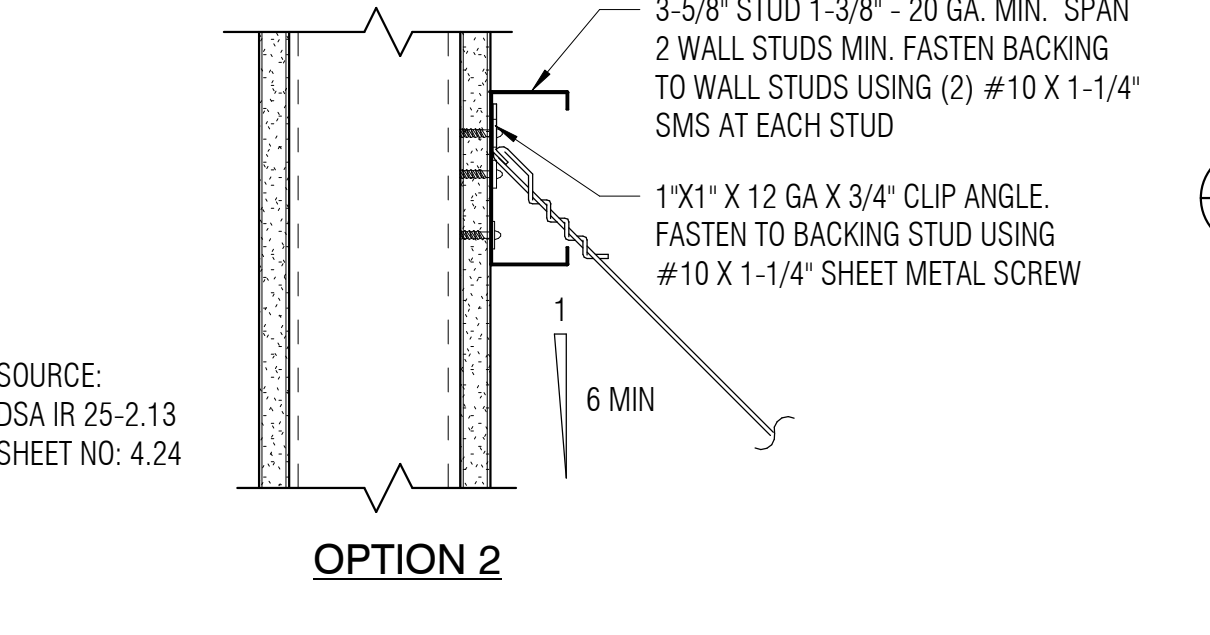
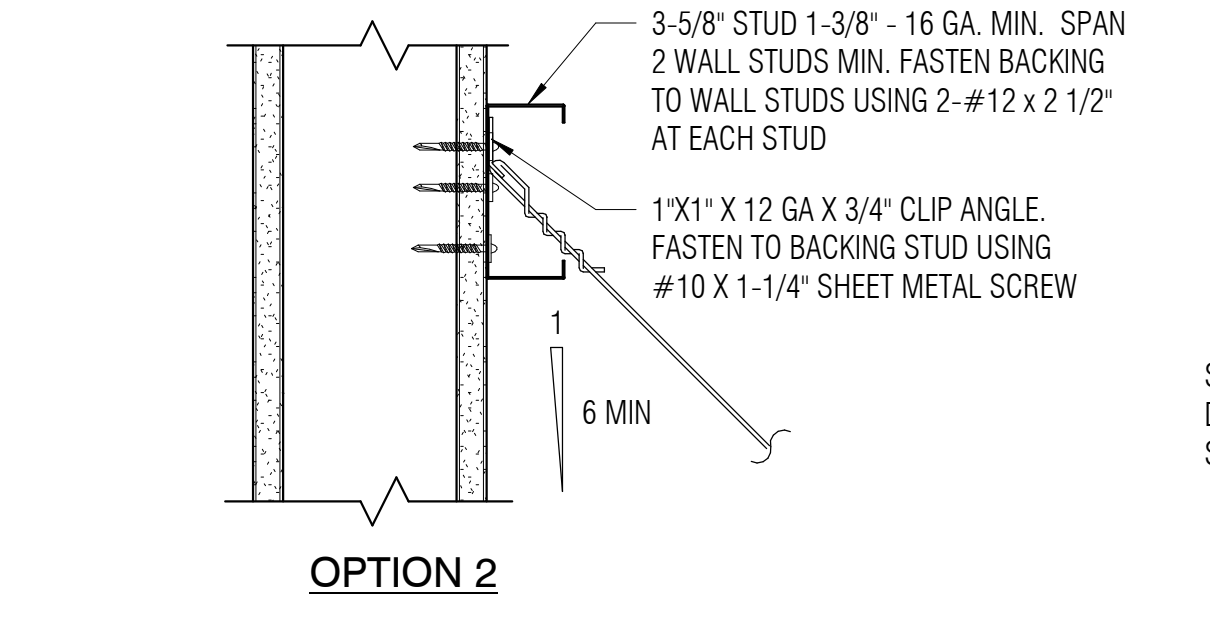
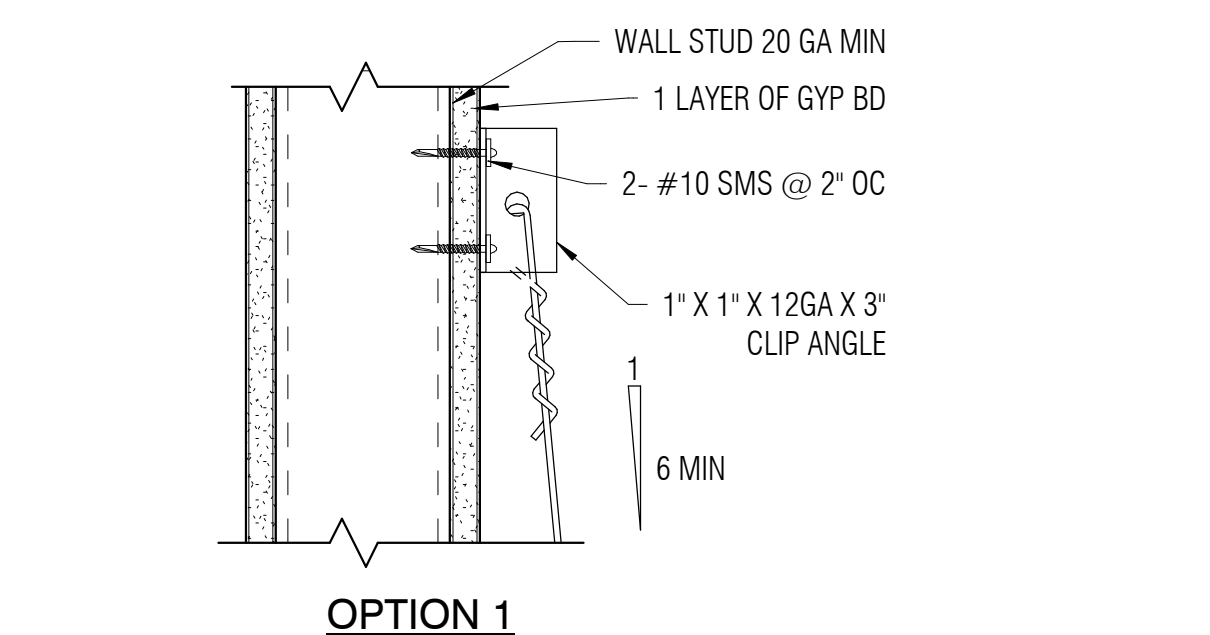
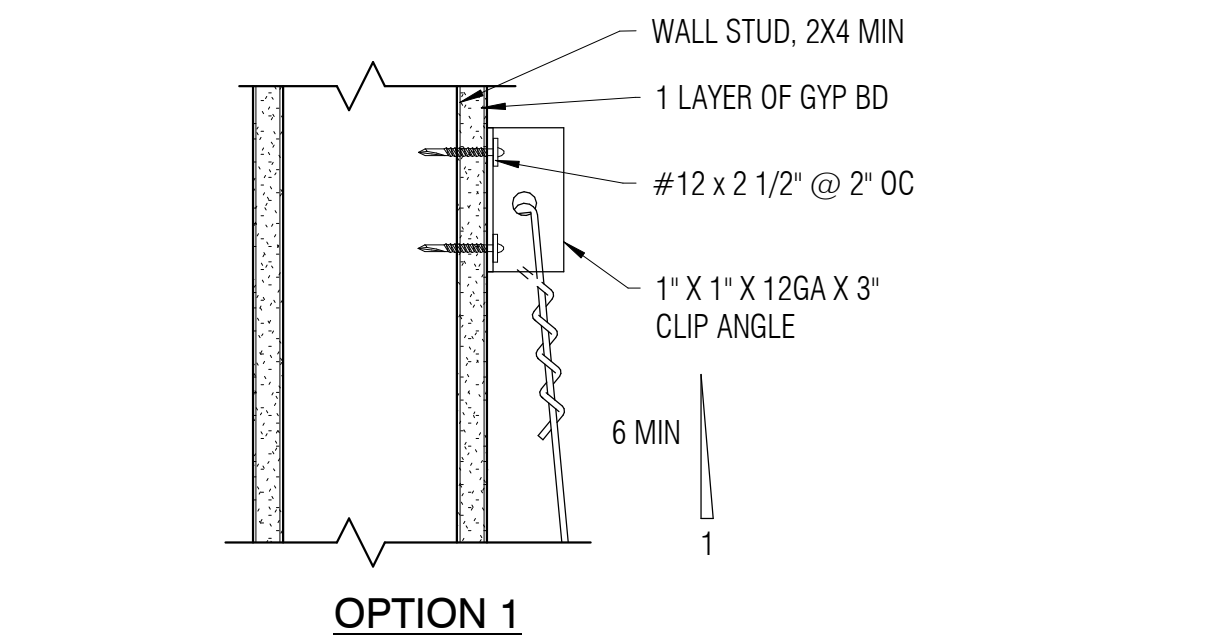
| WALL STUD GAUGE | CONNECTION TO WALL STUD (WITH GYP BD) | CONNECTION TO WALL STUD (WITHOUT GYP BD) |
|-----------------|---------------------------------------|--|
| 20 GAUGE | (5) #10x1-1/4" SMS | (3) #10x1-1/4" SMS |
| 18 GAUGE | (4) #10x1-1/4" SMS | (2) #10x1-1/4" SMS |

6 R-BRACING WIRE CONNECTION TO WOOD STUD WALL

14 R-BRACING WIRE CONNECTION TO MTL STUD WALL

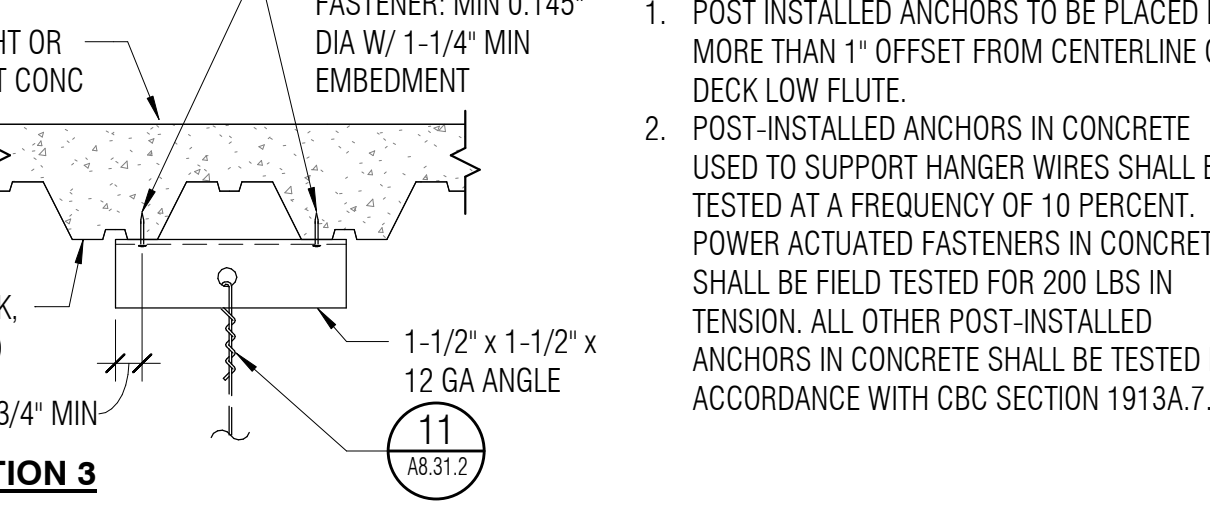
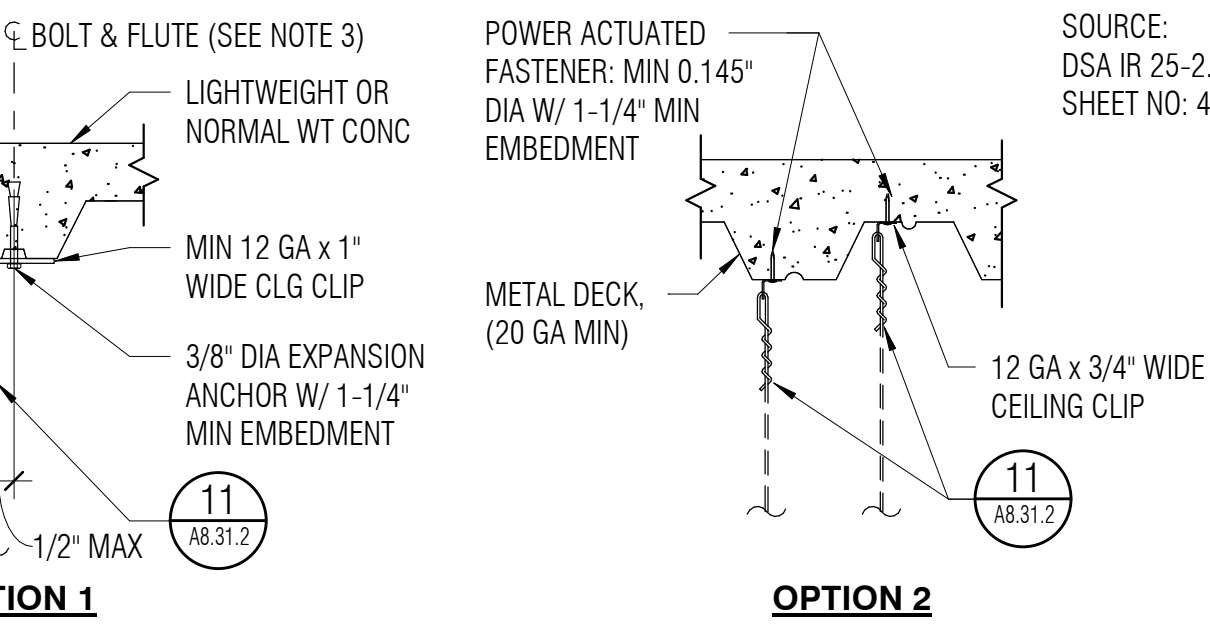


11 TYP WIRE TURNS @ HANGER & BRACING WIRE CONNECTION



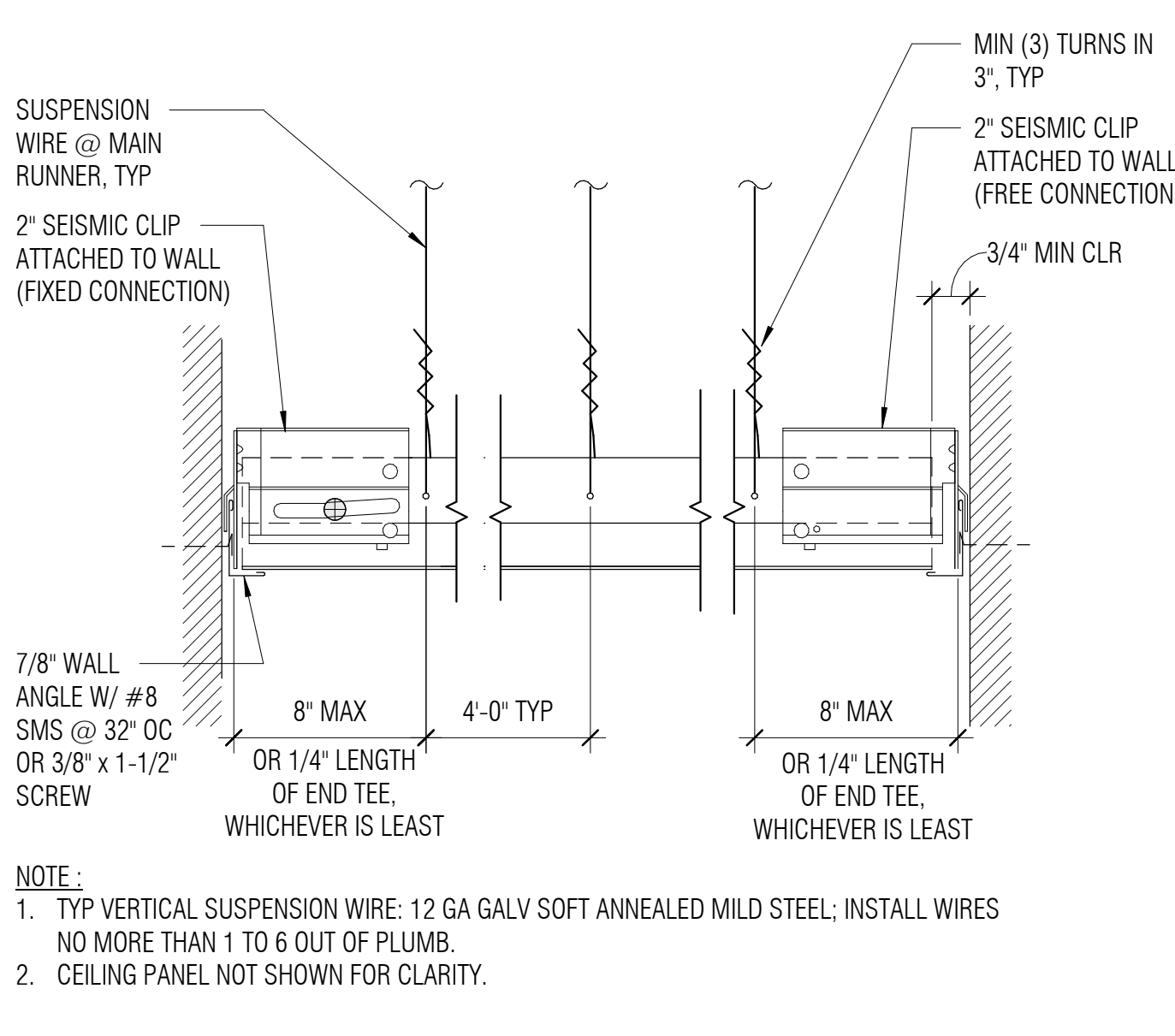
20 R-HANGER WIRE CONNECTION TO WOOD STUD WALL

16 R-HANGER WIRE CONNECTION TO METAL STUD WALL



12 HANGER WIRE CONNECTION TO CONC OVER MTL DECK

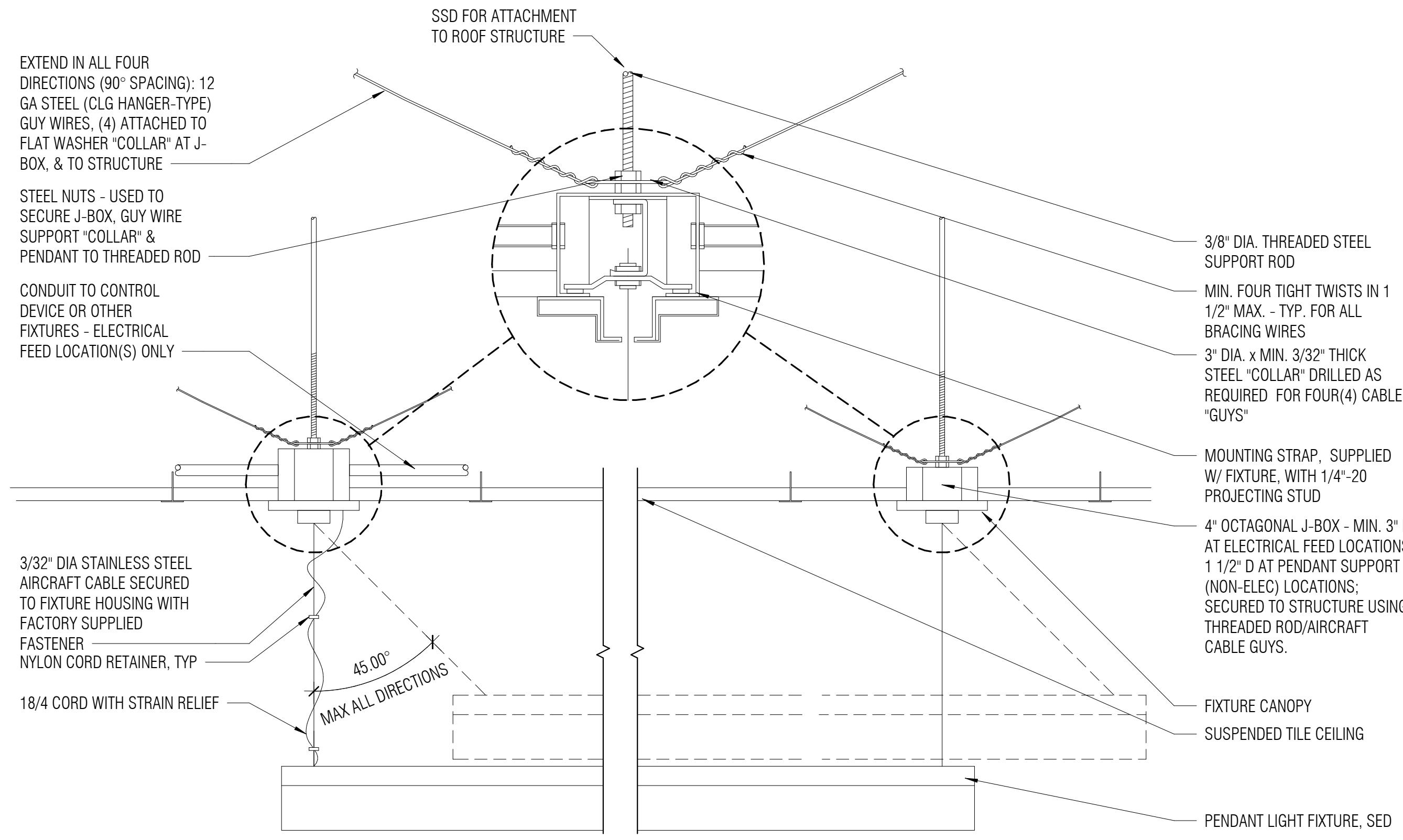
7 SUSPENDED ACOUSTICAL CEILING PERIMETER DETAIL



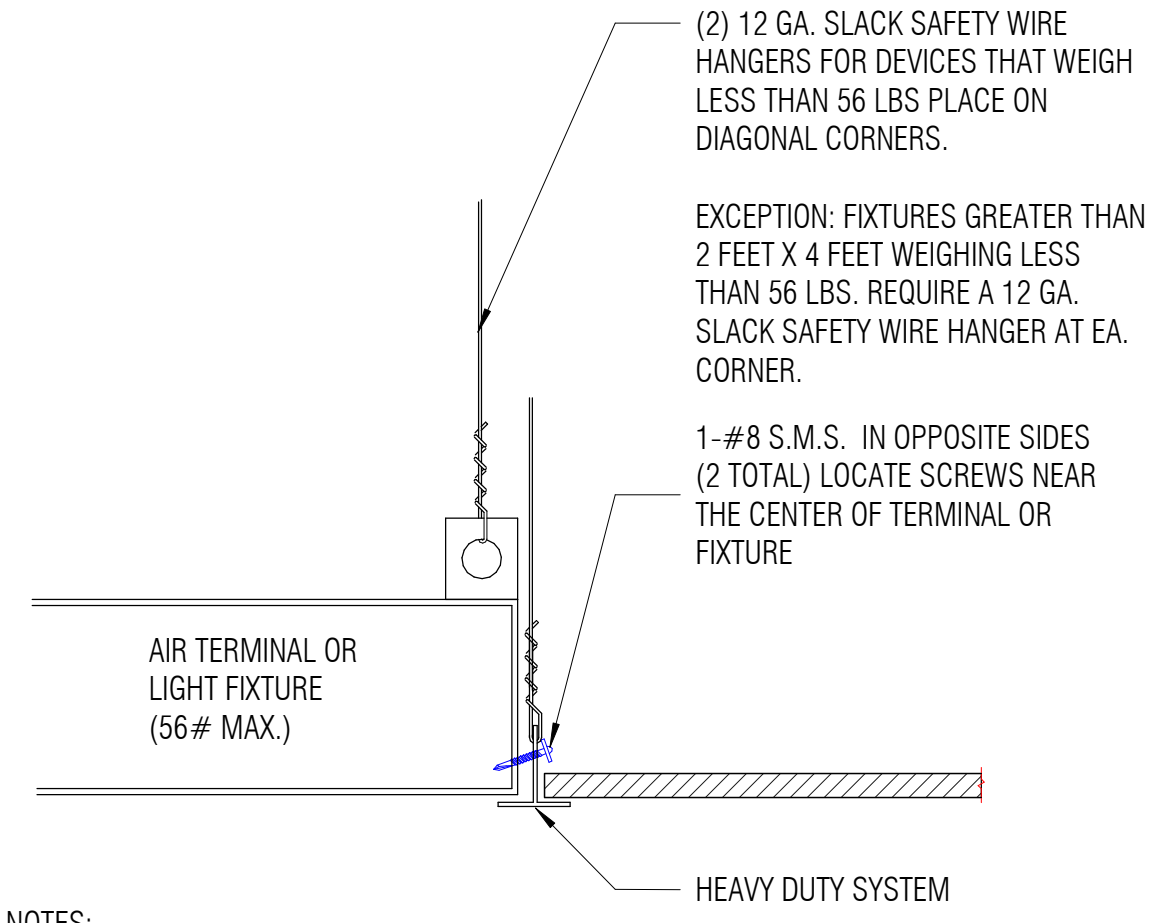
8 SUSPENDED ACOUSTICAL CEILING PERIMETER (SEISMIC CLIP)

4 SUSPENDED CEILING- SUSPENSION & BRACING ASSEMBLY

NOTES:
 1. ALL FLUSH OR RECESSED LIGHT FIXTURE WEIGHING 56 LBS OR MORE AND MECHANICAL TERMINALS AND SERVICES, WEIGHING 20 LBS OR MORE, MUST BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN (4) TAUT #12 GA WIRES, EACH ATTACHED TO FIXTURE AND THE STRUCTURE ABOVE. THE 4 TAUT #12 GA WIRES, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, MUST BE CAPABLE OF SUPPORTING 4 TIMES THE WEIGHT OF THE UNIT.

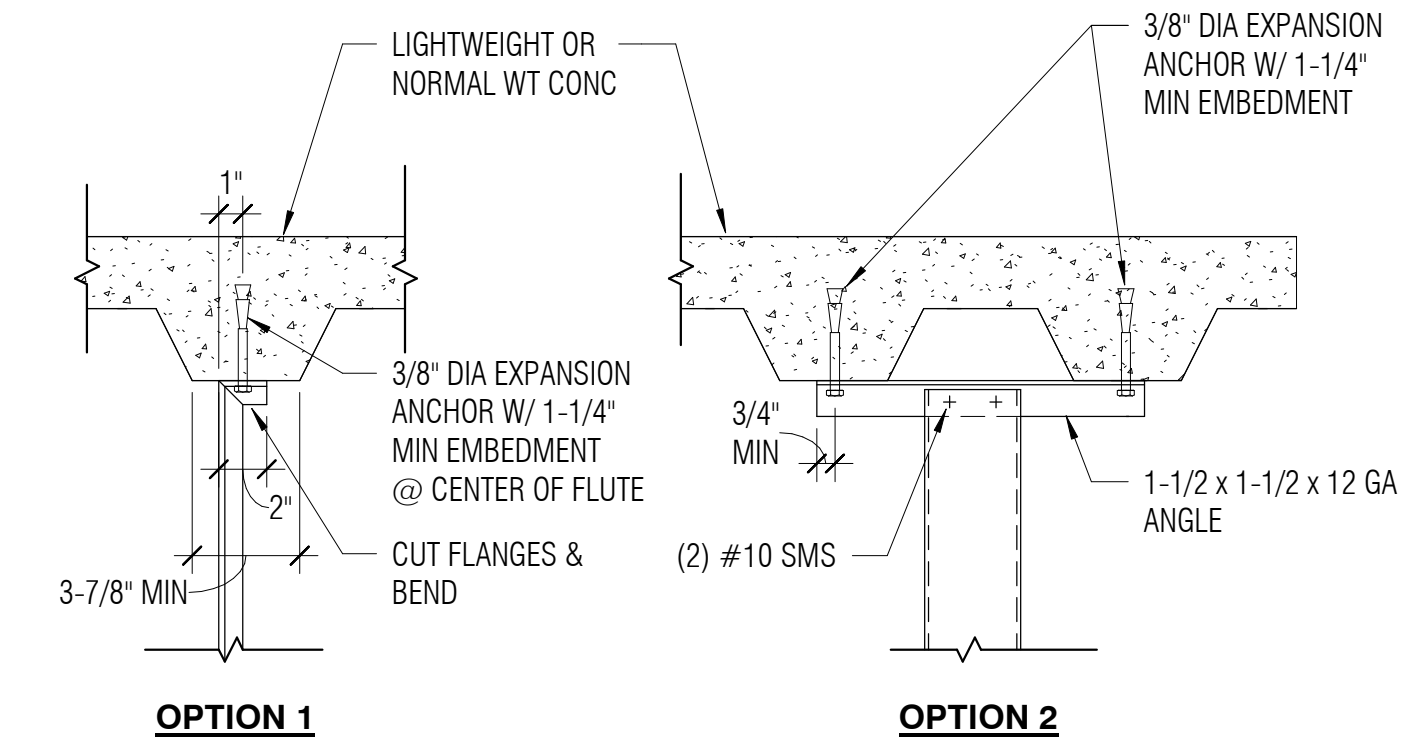


6 A8.32.2
PENDANT FIXTURE MOUNTING @ SUSPENDED CLG DETAIL
 1 1/2" = 1'-0"

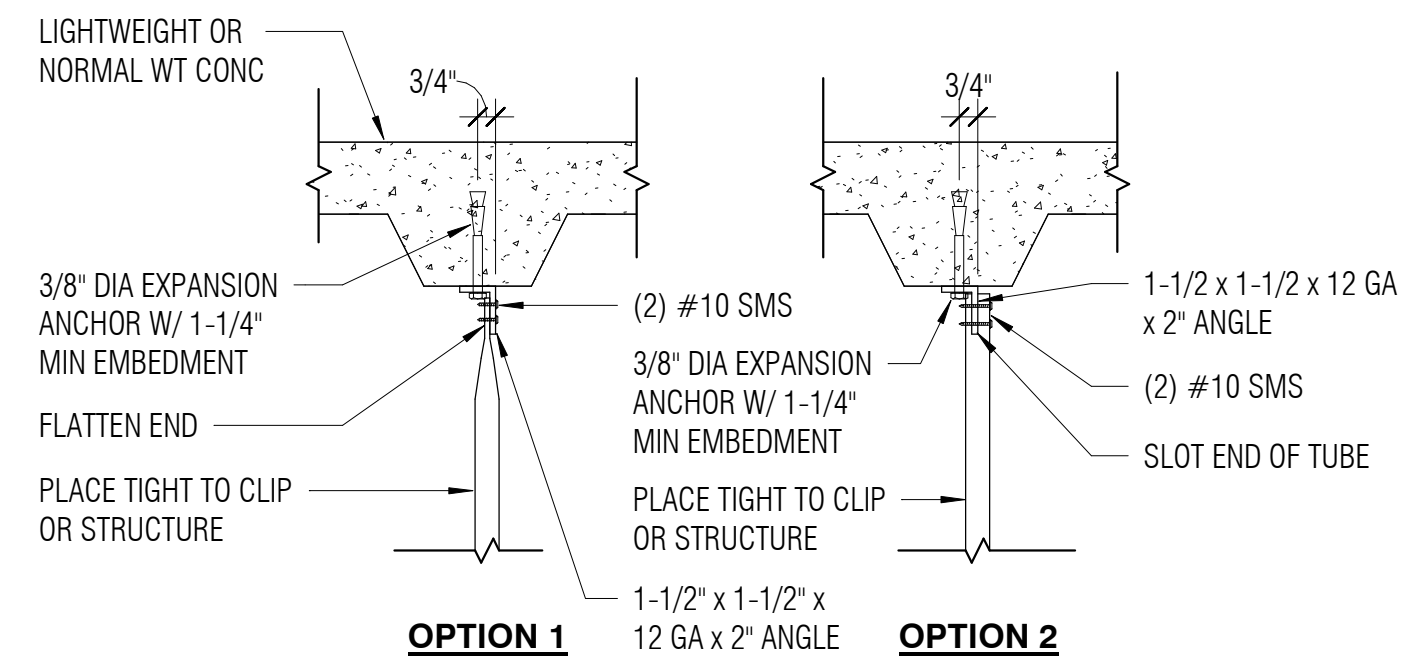


NOTES:
 1. ALL FLUSH OR RECESSED LIGHT FIXTURE WEIGHING 56 LBS OR MORE AND MECHANICAL TERMINALS AND SERVICES, WEIGHING 20 LBS OR MORE, MUST BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN (4) TAUT #12 GA WIRES, EACH ATTACHED TO FIXTURE AND THE STRUCTURE ABOVE. THE 4 TAUT #12 GA WIRES, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, MUST BE CAPABLE OF SUPPORTING 4 TIMES THE WEIGHT OF THE UNIT.

3 A8.32.2
SUSPENDED ACOUSTICAL CEILING - LIGHT FIXTURE / AIR TERMINAL SUPPORT
 3" = 1'-0"



OPTION 1 **OPTION 2**
CHANNEL STRUT

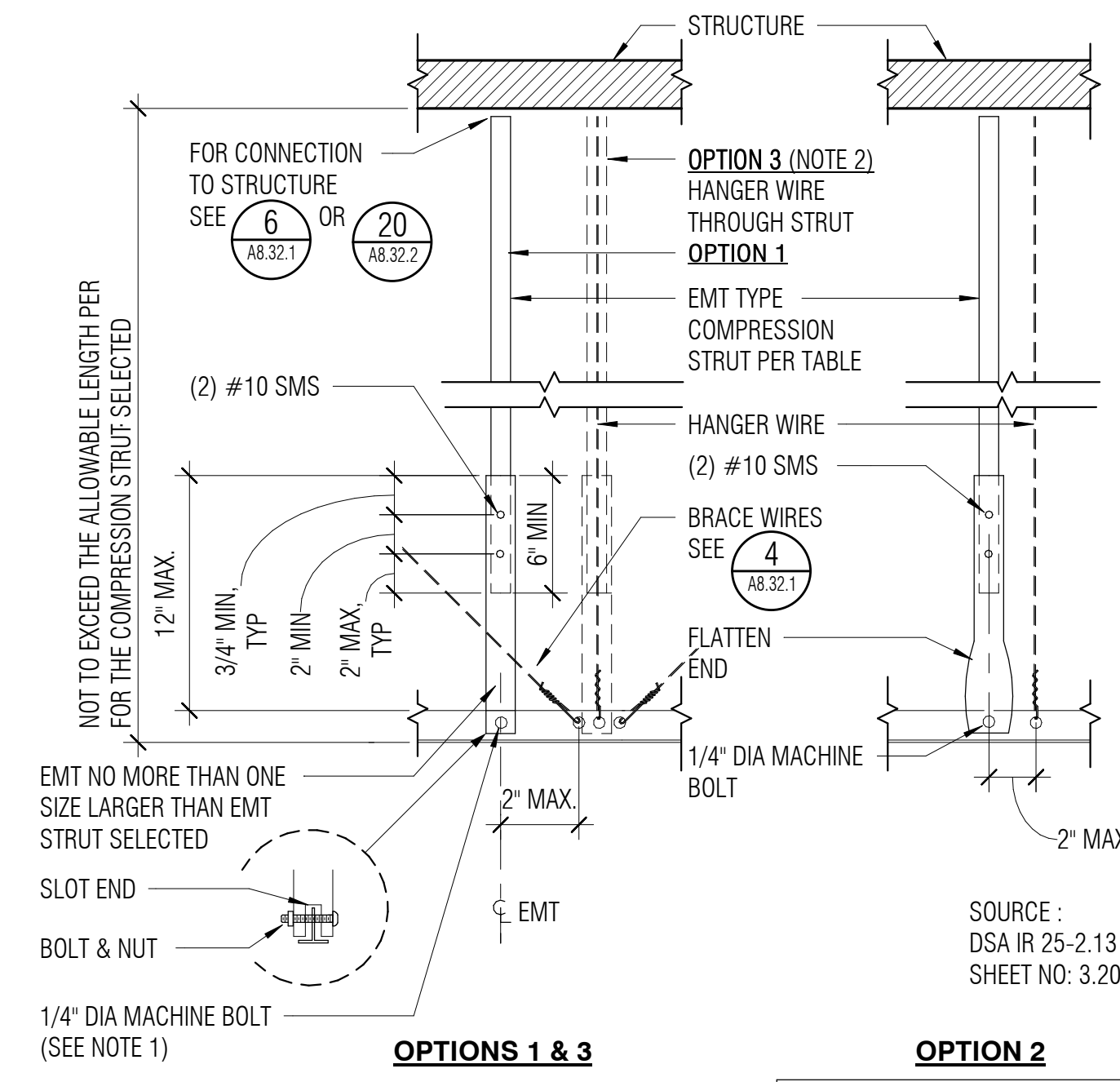


OPTION 1 **OPTION 2**
TUBE STRUT

SOURCE:
 DSA IR 25-2.13
 SHEET NO: 5.21

NOTES:
 1. POST-INSTALLED ANCHORS TO BE PLACED NO MORE THAN 1" OFFSET FROM CENTERLINE OF DECK LOW FLUTE.
 2. POST-INSTALLED ANCHORS IN CONCRETE USED TO SUPPORT HANGER WIRES SHALL BE TESTED AT A FREQUENCY OF 10 PERCENT. POWER ACTUATED FASTENERS IN CONCRETE SHALL BE FIELD TESTED FOR 200 LBS IN TENSION. ALL OTHER POST-INSTALLED ANCHORS IN CONCRETE SHALL BE TESTED IN ACCORDANCE WITH CBC SECTION 1913A.7.

4 A8.32.2
STRUT CONNECTION TO CONC OVER MTL DECK
 N.T.S.



NOTES:
 1. OPTION 3 ONLY APPLICABLE FOR TYPE 5 CONSTRUCTION @ (N) LLRC BUILDING
 2. MACHINE BOLT IS NOT REQUIRED FOR OPTION 3
 3. APPLICABLE WITHOUT GYP BD ONLY
 4. CEILING PANELS NOT SHOWN FOR CLARITY

5 A8.32.2
SUSPENDED ACOUSTICAL CEILING EMT TYPE STRUT
 N.T.S.

| EMT COMPRESSION STRUT | MAXIMUM LENGTH |
|---|----------------|
| 1/2" DIAMETER EMT (0.042" WALL THICKNESS) | 3'-11" |
| 3/4" DIAMETER EMT (0.049" WALL THICKNESS) | 6'-4" |
| 1" DIAMETER EMT (0.057" WALL THICKNESS) | 9'-9" |
| 1-1/4" DIAMETER EMT (0.065" WALL THICKNESS) | 12'-9" |
| 1-1/2" DIAMETER EMT (0.065" WALL THICKNESS) | 14'-9" |
| 2" DIAMETER EMT (0.065" WALL THICKNESS) | 18'-10" |

| CHANNEL COMPRESSION STRUT | MAXIMUM LENGTH |
|--------------------------------------|----------------|
| 2-1/2" STUD W/ 1-1/4" FLANGE - 20 GA | 5'-0" |
| 2-1/2" STUD W/ 1-3/8" FLANGE - 20 GA | 6'-10" |
| 3-5/8" STUD W/ 1-3/8" FLANGE - 20 GA | 8'-0" |
| 2-1/2" STUD W/ 1-3/8" FLANGE - 18 GA | 8'-10" |
| 4" STUD W/ 1-3/8" FLANGE - 18 GA | 10'-0" |

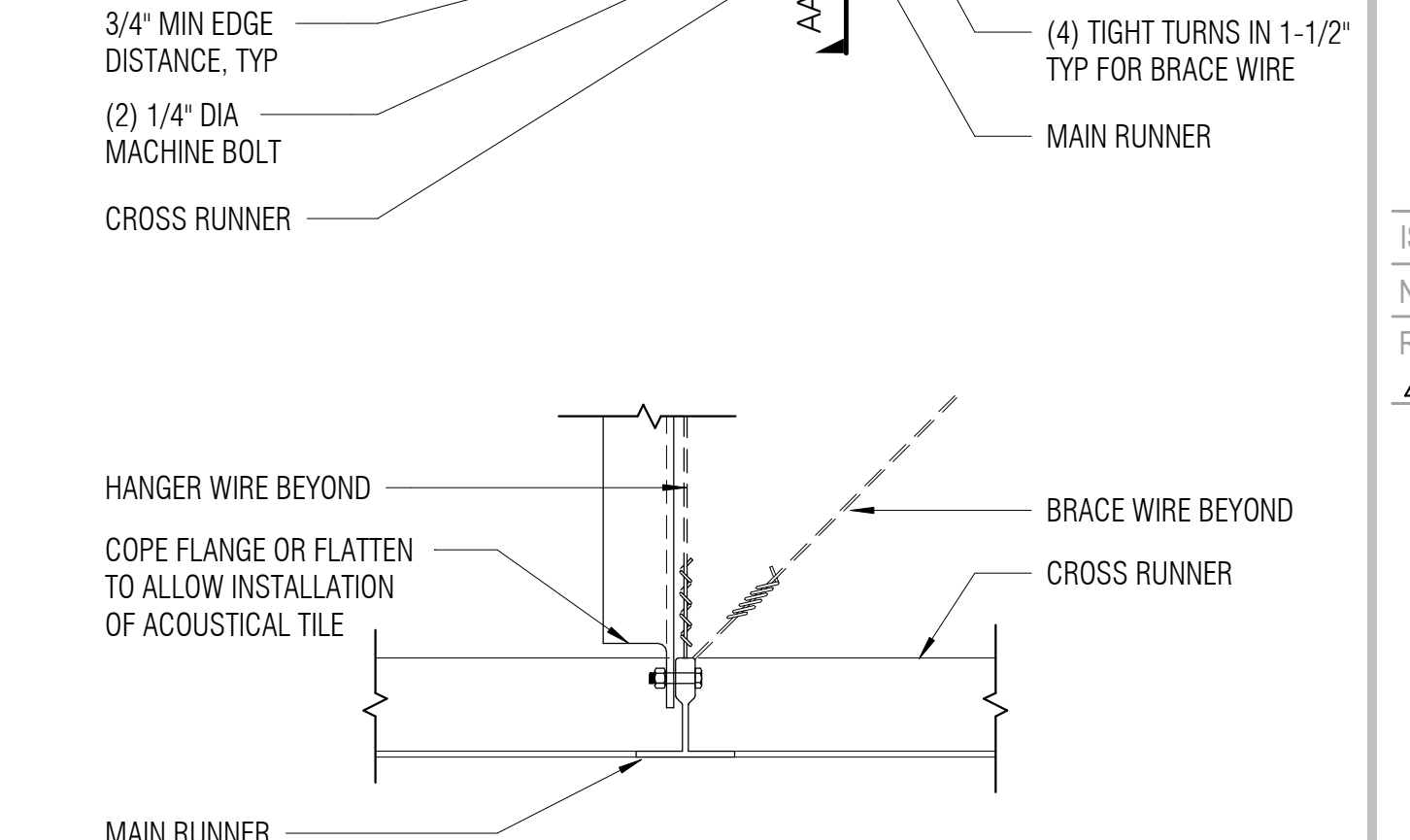
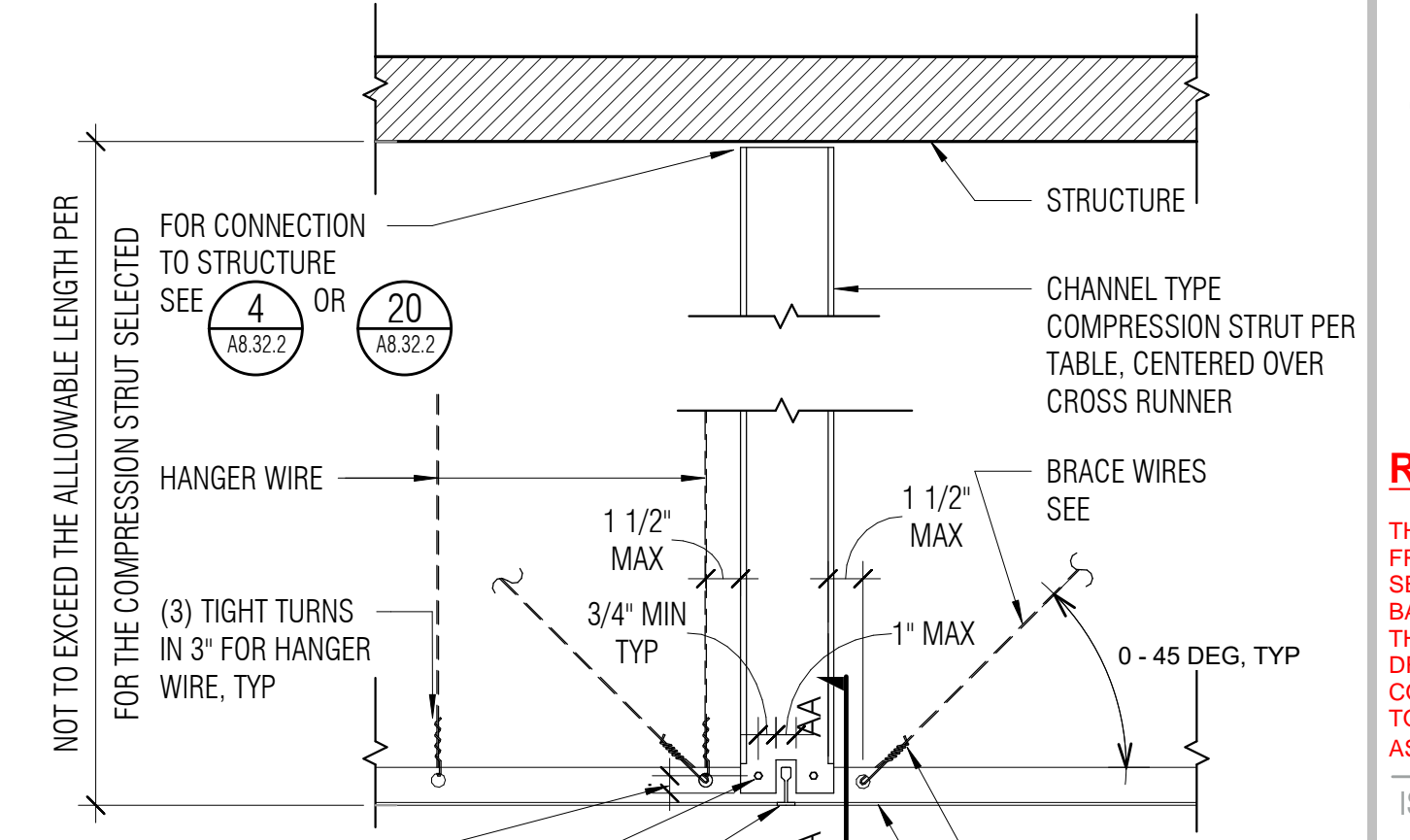
NOTE:
 1. LATERAL FORCE BRACING MEMBERS SHALL BE SPACED A MINIMUM OF 6" FROM ALL HORIZONTAL PIPING OR DUCT WORK THAT IS NOT PROVIDED WITH BRACING RESTRAINTS FOR HORIZONTAL FORCES. BRACING WIRES SHALL BE ATTACHED TO THE GRID AND TO THE STRUCTURE IN SUCH A MANNER THAT THEY CAN SUPPORT A DESIGN LOAD OF NOT LESS THAN 200 POUNDS OR THE ACTUAL LOAD, WHICHEVER IS GREATER, WITH A SAFETY FACTOR OF 2.

REFERENCE IR-25-2 FOR TESTING REQUIREMENTS.

TESTING REQUIREMENTS:
 WHEN DRILLED-IN CONCRETE ANCHORS OR SHOT-IN ANCHORS ARE USED IN REINFORCED CONCRETE FOR HANGER WIRES, 1 OUT OF 10 WIRE/ANCHOR ASSEMBLIES MUST BE FIELD TESTED FOR 200 LBS IN TENSION. WHEN DRILLED-IN CONCRETE ANCHORS ARE USED FOR BRACING WIRES, 1 OUT OF 2 WIRE/ANCHOR ASSEMBLIES MUST BE FIELD TESTED FOR 440 LBS IN TENSION IN THE DIRECTION OF THE WIRE. SHOT-IN ANCHORS IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES (REFERENCE IR 25-2.13).

NOTE:
 1. LATERAL FORCE BRACING MEMBERS SHALL BE SPACED A MINIMUM OF 6" FROM ALL HORIZONTAL PIPING OR DUCT WORK THAT IS NOT PROVIDED WITH BRACING RESTRAINTS FOR HORIZONTAL FORCES. BRACING WIRES SHALL BE ATTACHED TO THE GRID AND TO THE STRUCTURE IN SUCH A MANNER THAT THEY CAN SUPPORT A DESIGN LOAD OF NOT LESS THAN 200 POUNDS OR THE ACTUAL LOAD, WHICHEVER IS GREATER, WITH A SAFETY FACTOR OF 2.

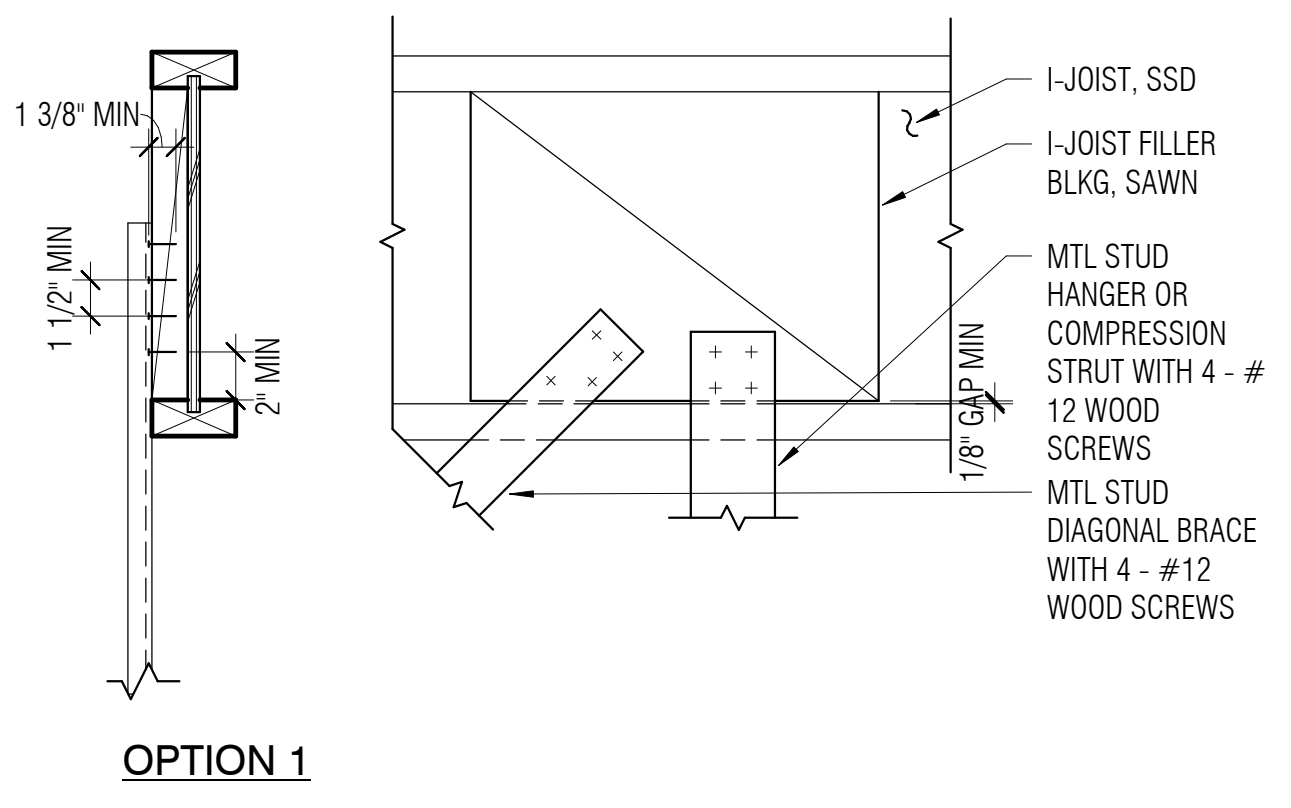
1 A8.32.2
COMPRESSION STRUT TABLE
 N.T.S.



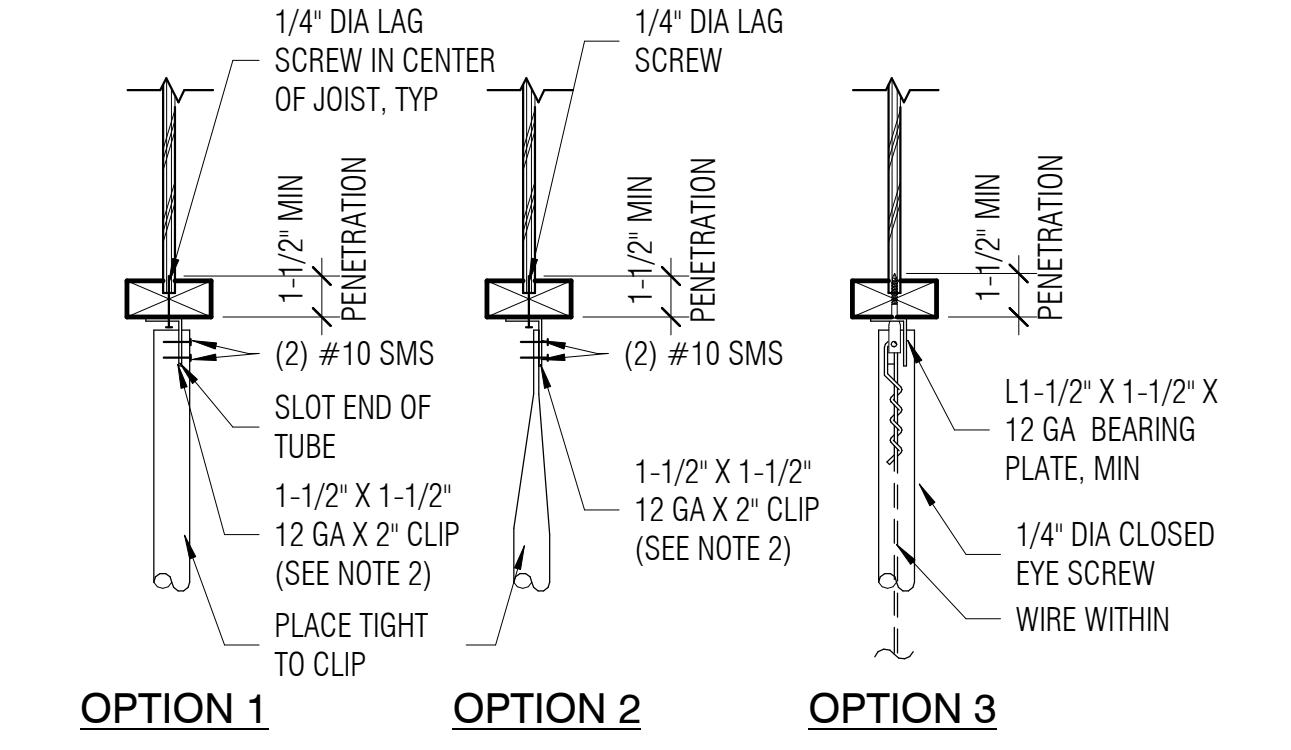
SECTION A-A
 SOURCE:
 DSA IR 25-2.13
 SHEET NO: 3.10

NOTE:
 1. LATERAL BRACING SHALL CONSIST OF (4) 12 GA WIRES AND COMPRESSION STRUT SECURED TO MAIN RUNNER WITHIN 2" OF CROSS RUNNER INTERSECTION. WIRES SHALL BE SPREAD 90 DEG IN PLAN FROM EACH OTHER AND AT AN ANGLE NOT EXCEEDING 45 DEG FROM PLANE OF CEILING.
 2. CEILING PANELS NOT SHOWN FOR CLARITY.

2 A8.32.2
SUSPENDED ACOUSTICAL CEILING CHANNEL TYPE STRUT
 N.T.S.



OPTION 1 **OPTION 2** **OPTION 3**
CHANNEL STRUT



OPTION 1 **OPTION 2** **OPTION 3**
TUBE STRUT

NOTE:
 1. WEB OF CHANNEL TO BEAR WITHIN WIDTH OF WOOD MEMBER.
 2. VERTICAL LEG OF MEMBER TO FALL WITHIN THE WIDTH OF THE WOOD MEMBER.
 3. SEE **5** A8.32.2 OR **2** A8.32.2 FOR ADDITIONAL INFORMATION.

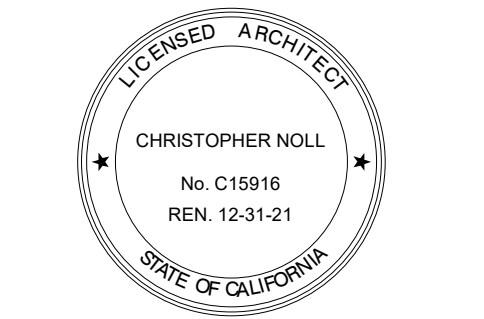
20 A8.32.2
R-STRUT CONNECTION TO I-JOISTS WITHOUT GYPSUM BOARD
 N.T.S.

APPROVALS

NOLL & TAM
 ARCHITECTS

729 Heinz Avenue
 Berkeley, CA 94710
 tel 510.542.2200
 fax 510.542.2201

ARCHITECTS SEAL



PROJECT TITLE

CONTRA COSTA
CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION & RENOVATION

1690 Watermill Rd.
 San Ramon, CA 94582

RECORD SET:
 THESE DRAWINGS HAVE BEEN PREPARED FROM ADDENDUMS, CCD'S, ASIS AND SELECT RFI'S OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM. ONLY A SELECT FEW AS-BUILTS WERE SUBMITTED.

ISSUE TITLE

INCREMENT 2

ISSUE DATE: 5/30/2019

NOLL & TAM JOB NUMBER: 21630

REVISIONS: DATE | DESCRIPTION

SHEET TITLE

INTERIOR CEILING DETAILS

SHEET NUMBER

A8.32.2

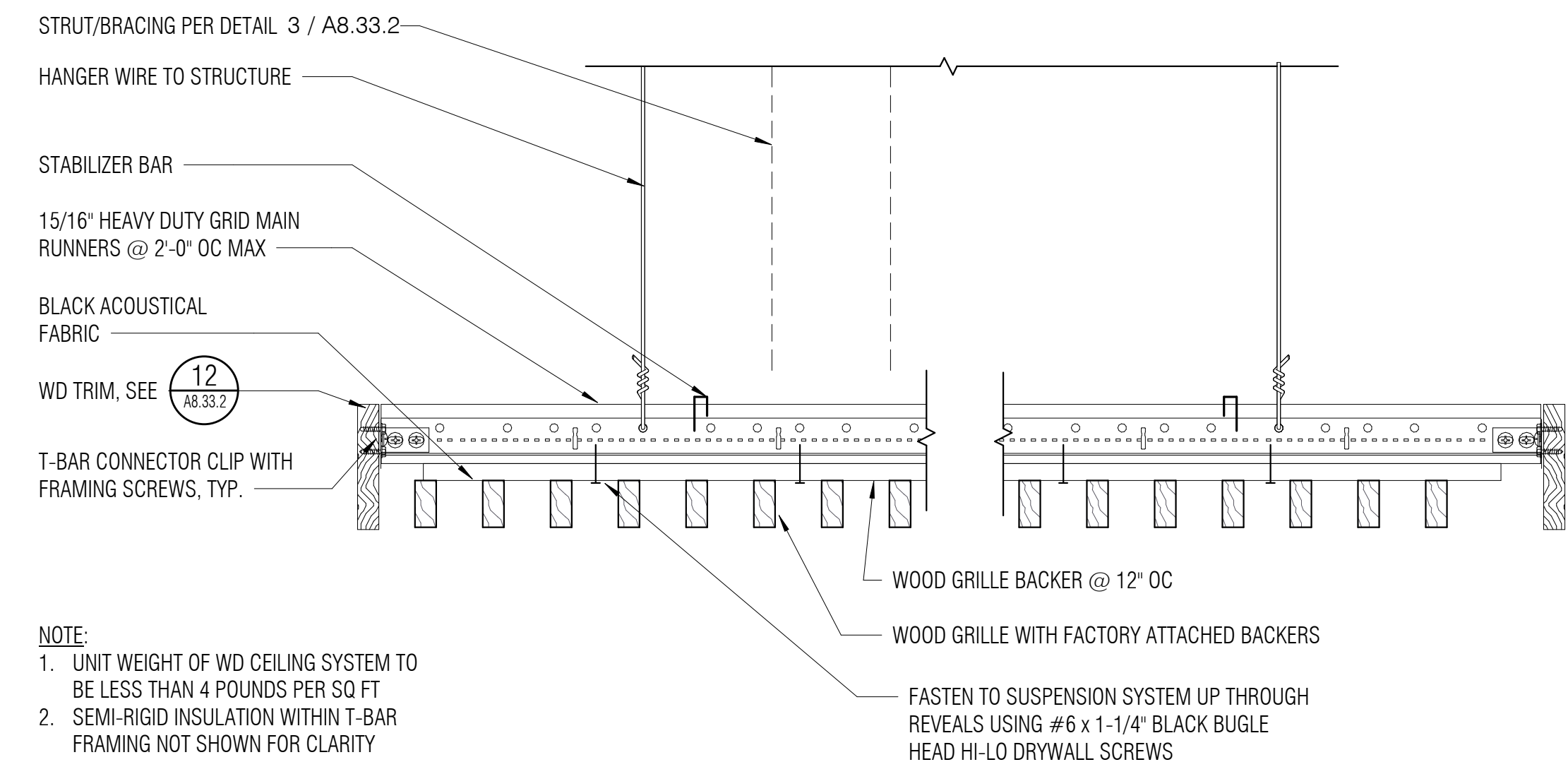
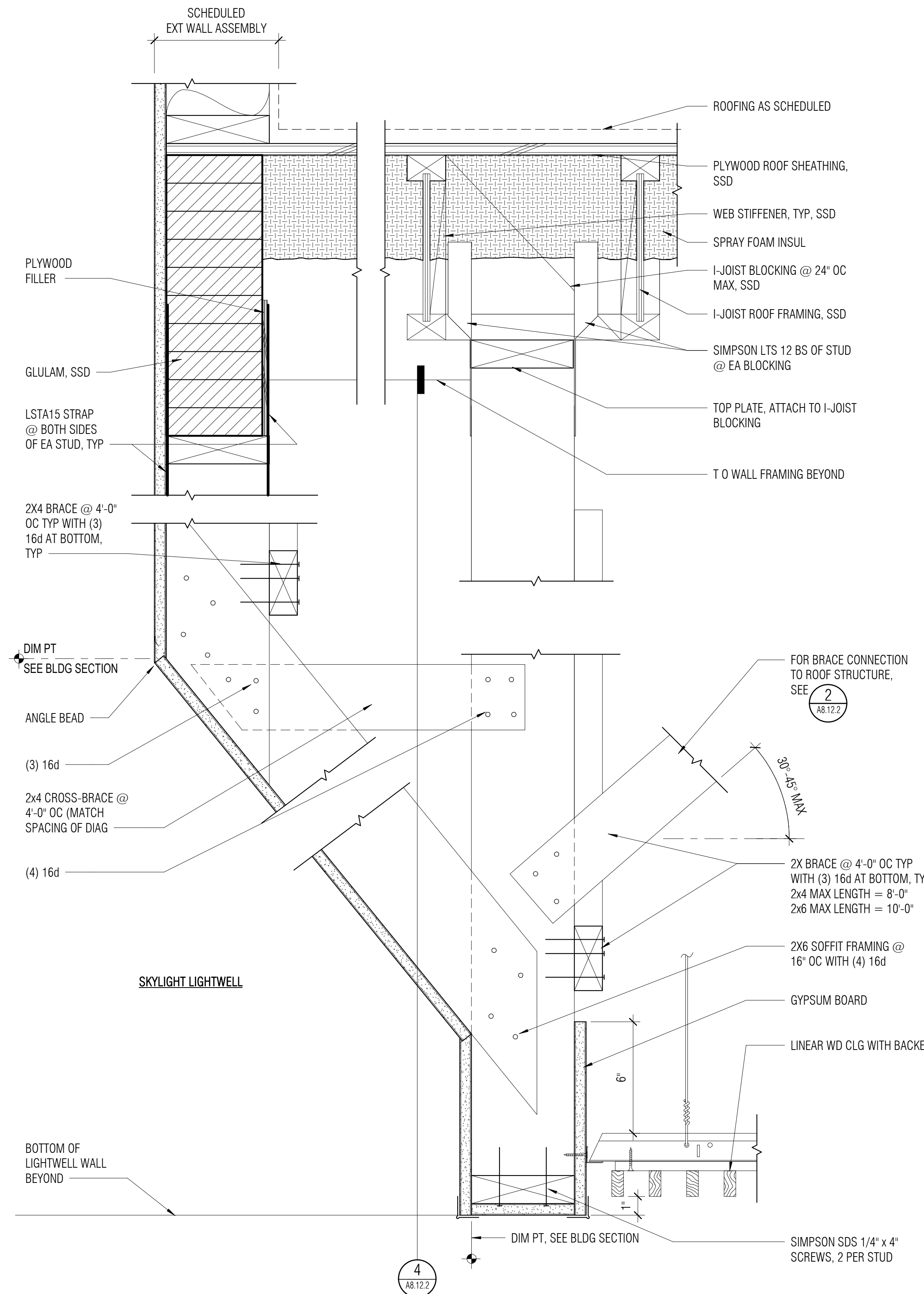
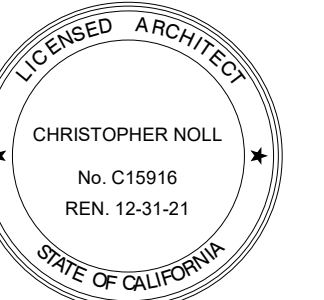
**GENERAL NOTES -
SUSPENDED SOLID WOOD
GRILLE CEILING**

1. DETAILS APPLY TO FLAT AND LEVEL CEILING SYSTEMS WHOSE TOTAL WEIGHT (INCLUDING CEILING MOUNTED AIR TERMINALS, SERVICES, LIGHT FIXTURES, AND WOOD SLATS) DOES NOT EXCEED 4 PSF.
2. EXPANSION JOINTS SHALL BE PROVIDED IN THE CEILING INTERSECTIONS OF CORRIDORS AND JUNCTIONS OF CORRIDORS WITH LOBBIES OR OTHER SIMILAR AREAS. SEE EXPANSION JOINT DETAIL ON THIS SHEET.
3. 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 2" OVERSIZE RING, SLEEVE, OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FREE MOVEMENT OF 1" IN ALL HORIZONTAL DIRECTIONS. PROVIDE FLEX CONNECTIONS IN LIEU OF OVERSIZE RING WHERE INDICATED ON FIRE SPRINKLER DRAWINGS.
4. SEE ELECTRICAL DRAWINGS FOR SUPPORT OF LIGHT FIXTURES.

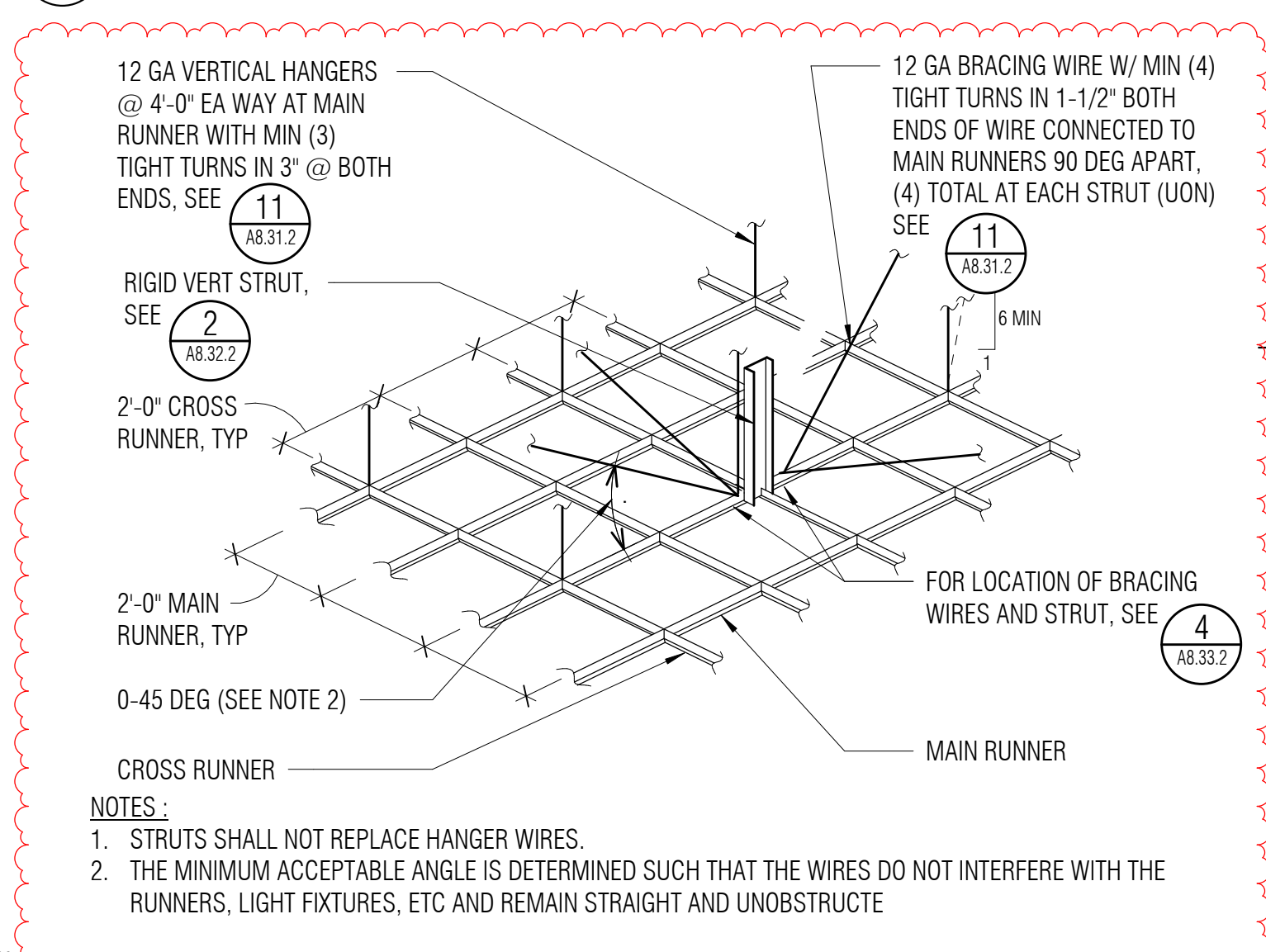
**NOLL
& TAM**
ARCHITECTS

729 Heinz Avenue
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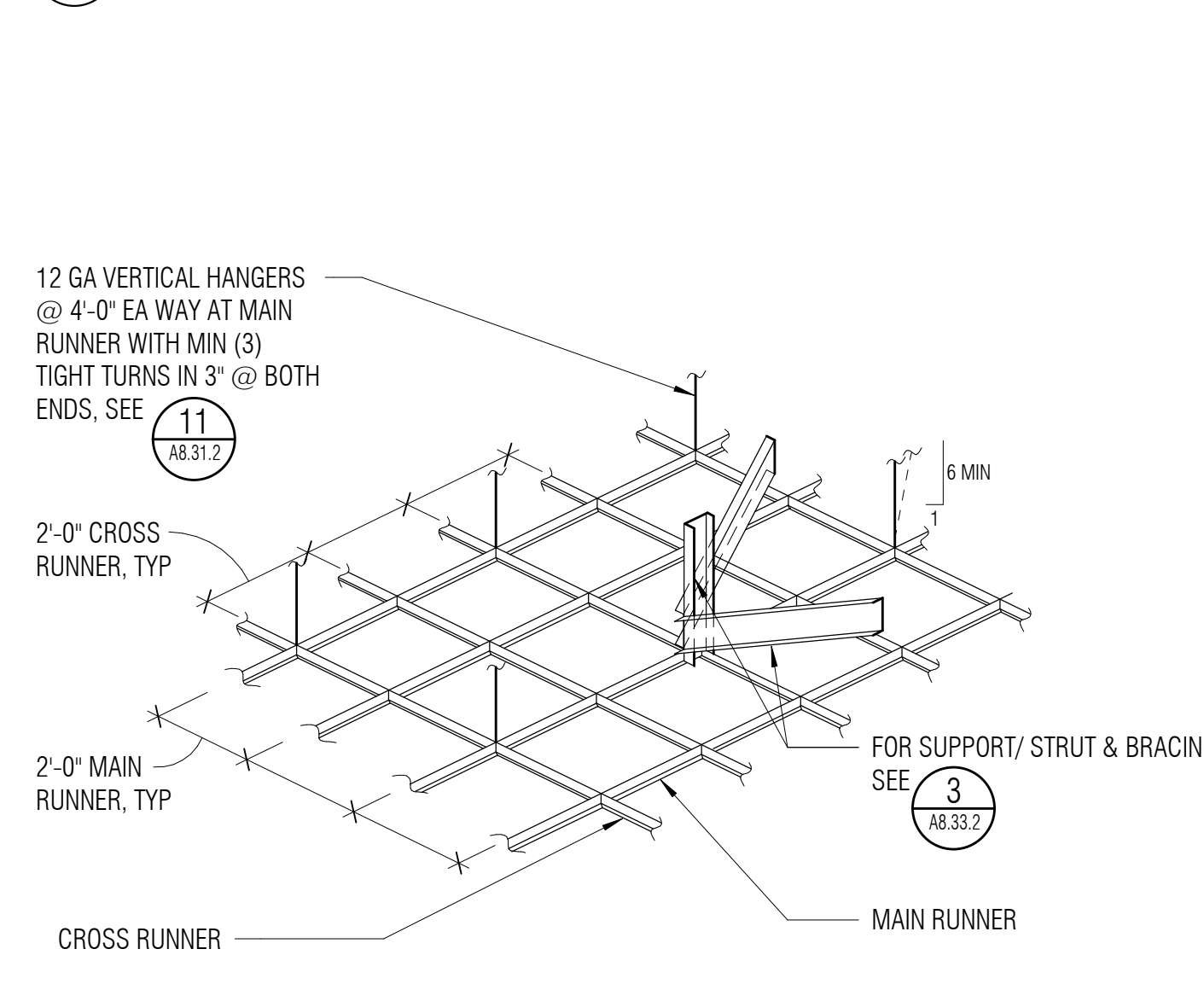
ARCHITECTS SEAL



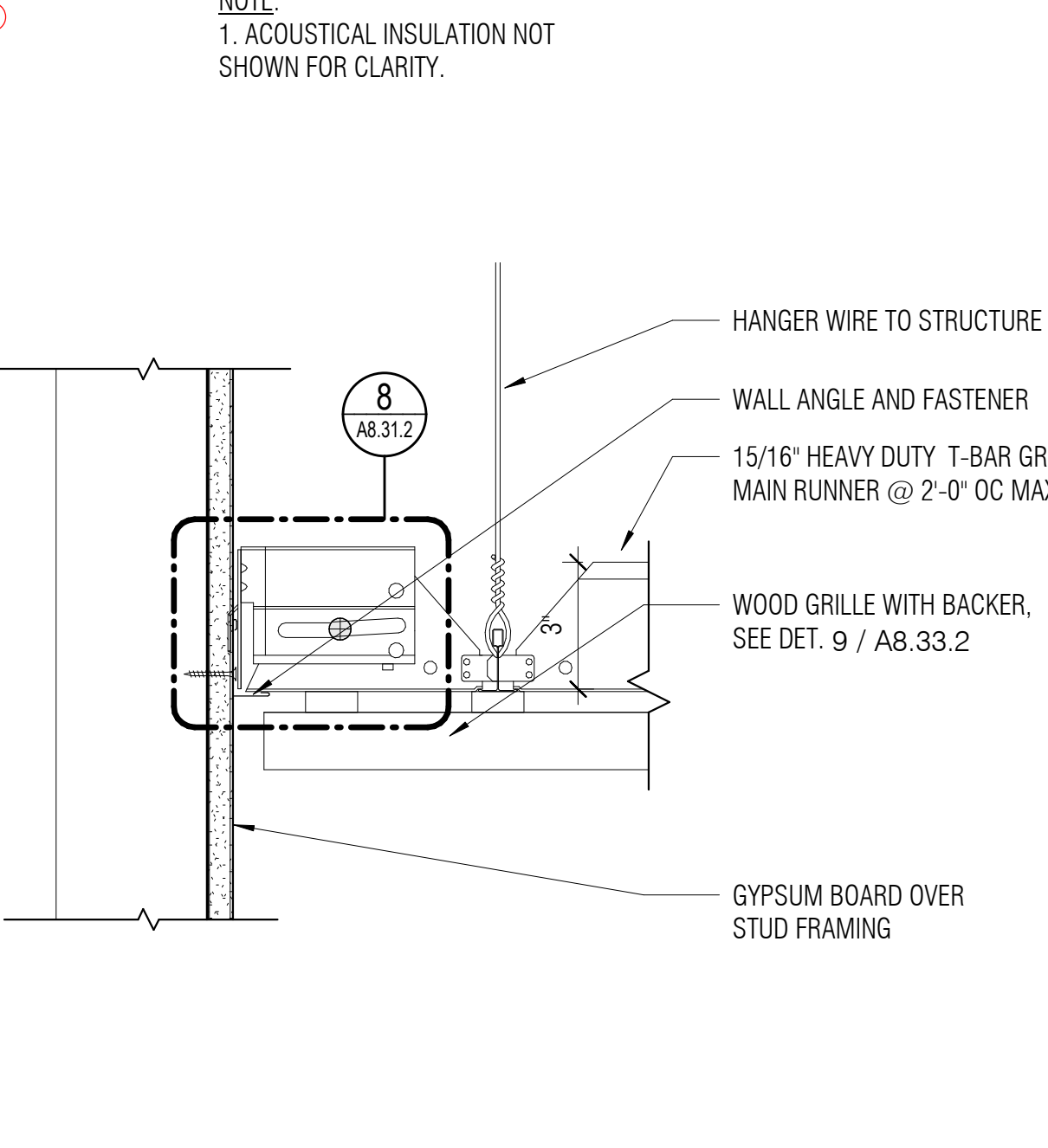
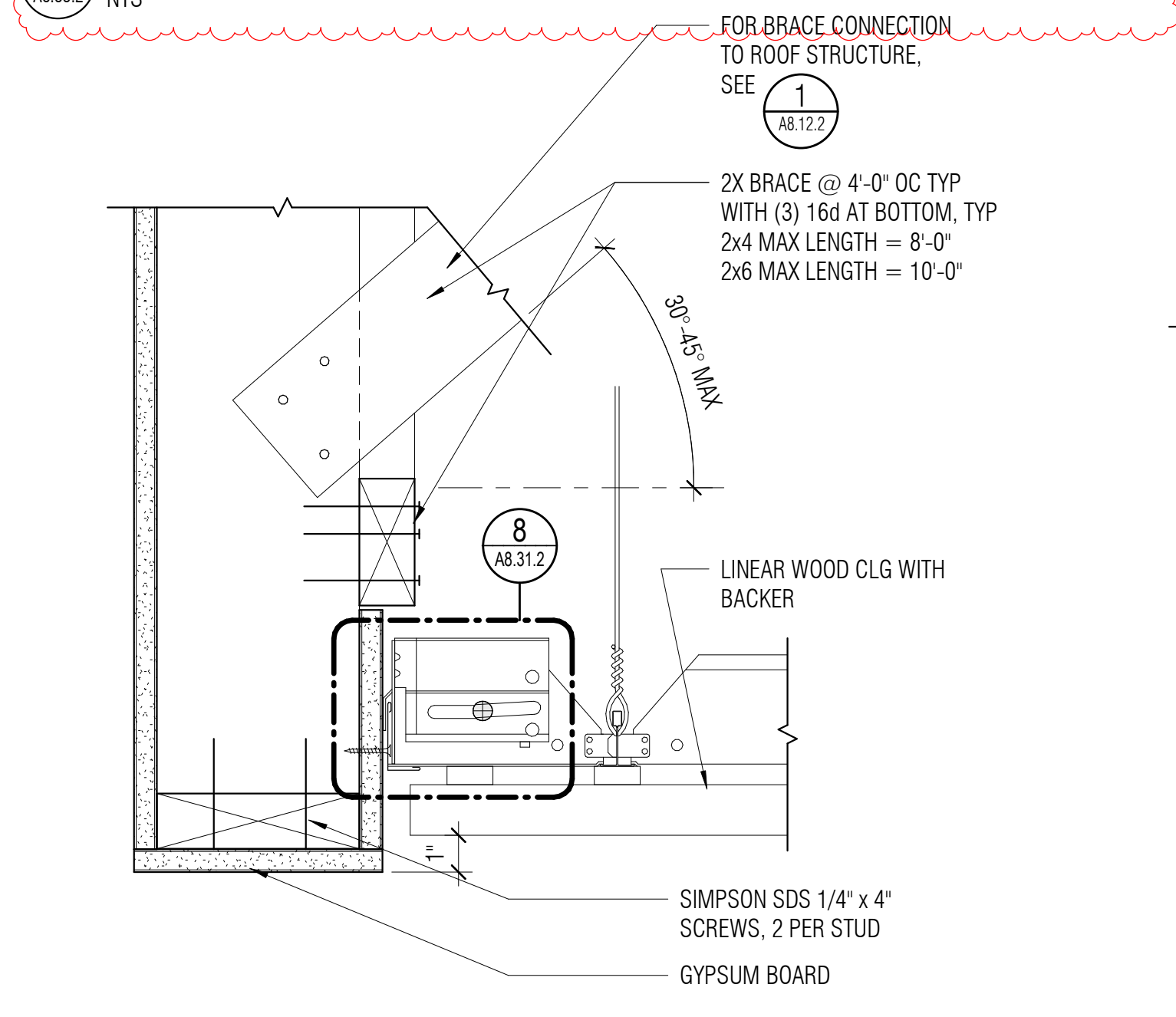
9 SUSPENDED WOOD CEILING
3' = 1'-0"



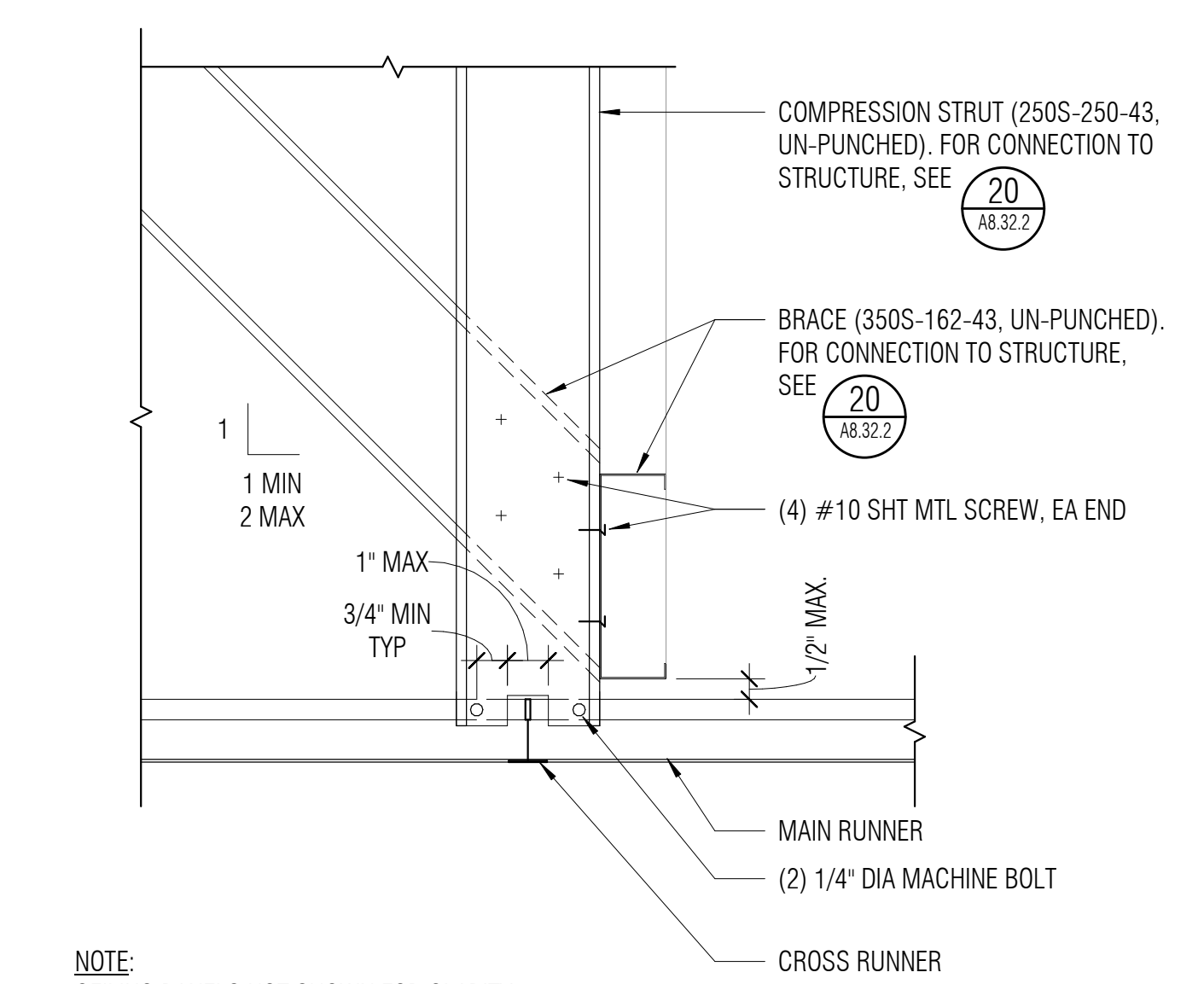
1 SUSPENDED WD CEILING GENERAL NOTES
3' = 1'-0"



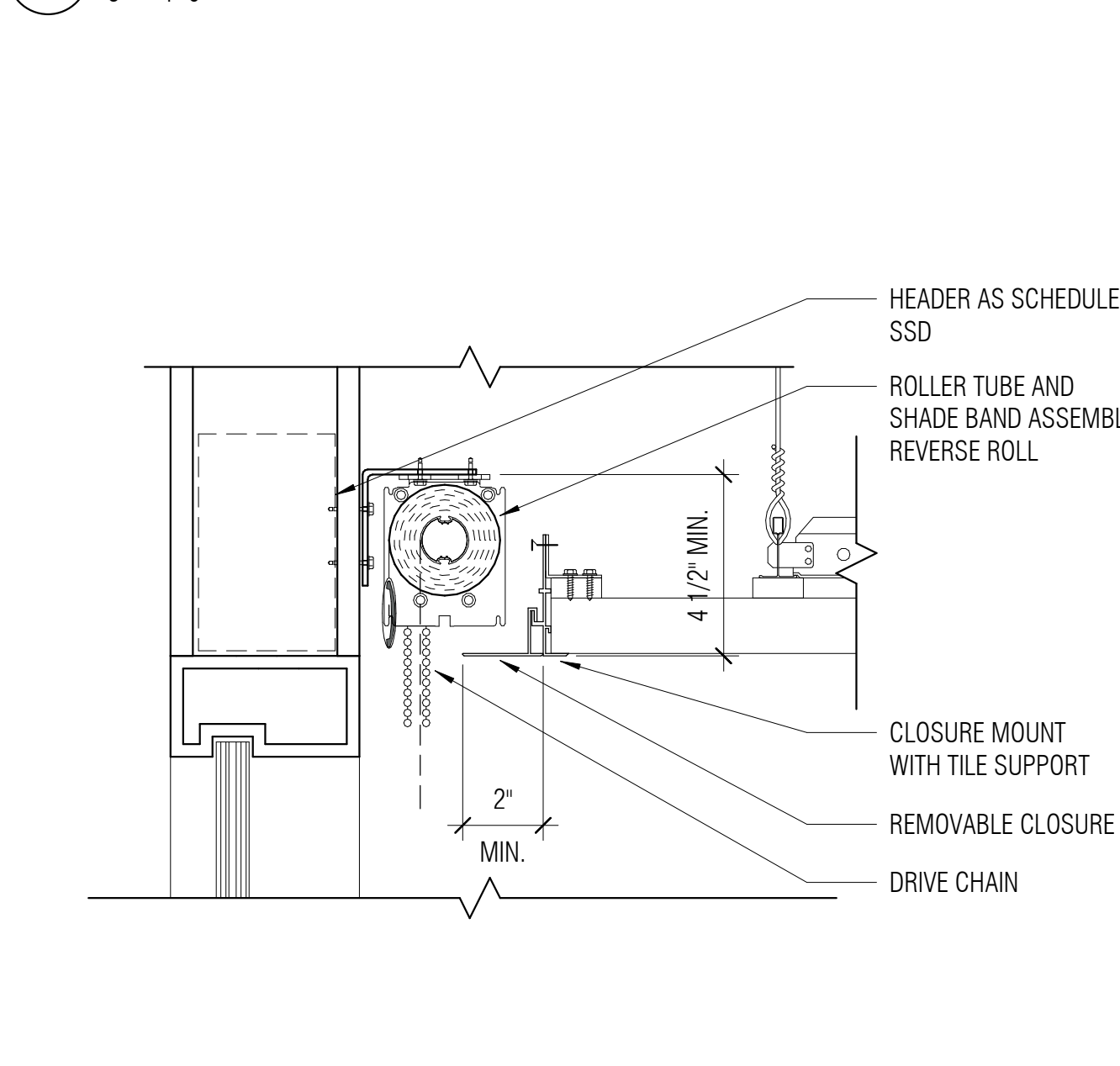
10 SUSPENSION & BRACING @ FLOATING WD CEILING - ALTERNATE
NTS



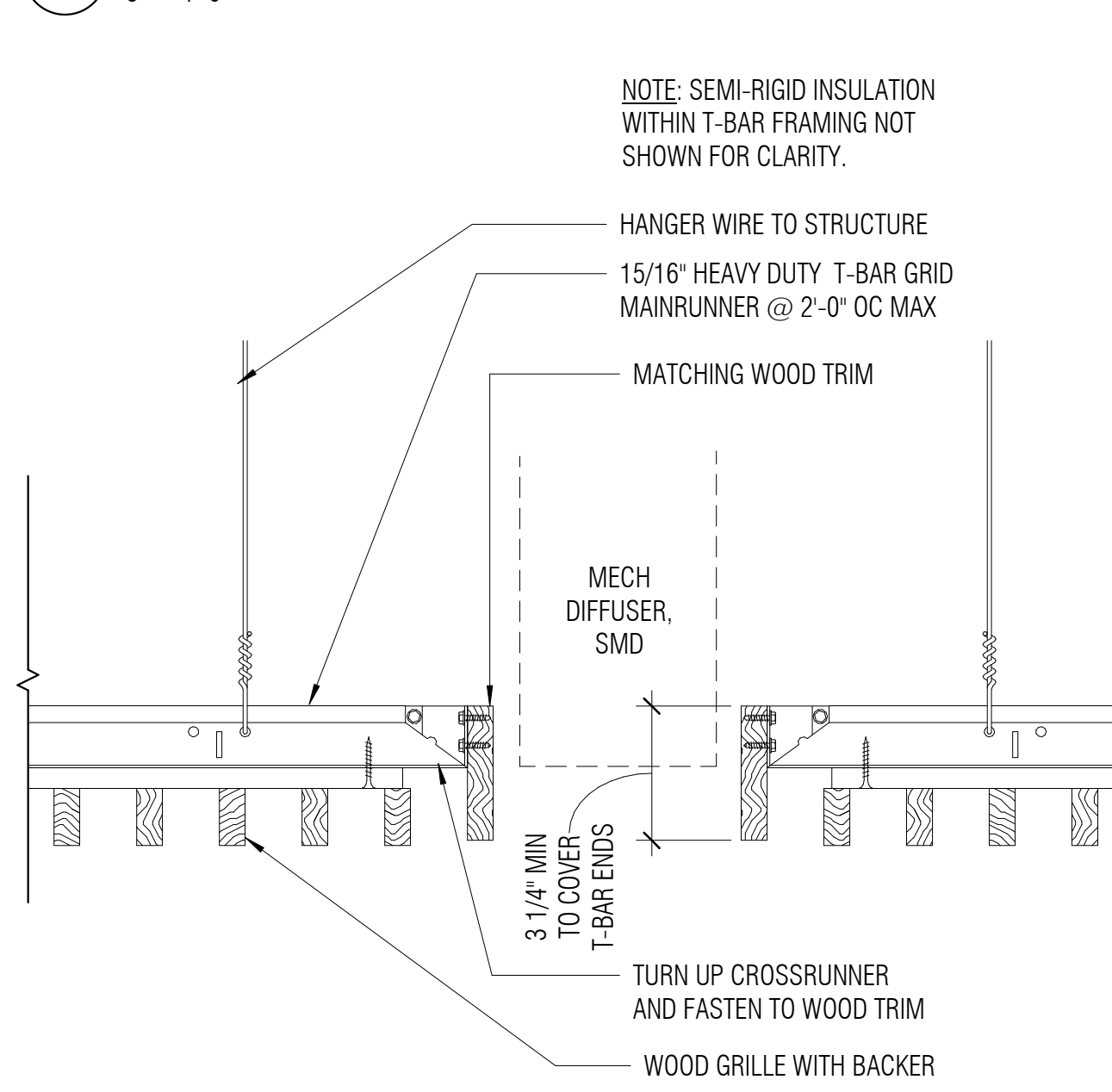
2 SUSPENSION & BRACING @ FLOATING WD CEILING
NTS



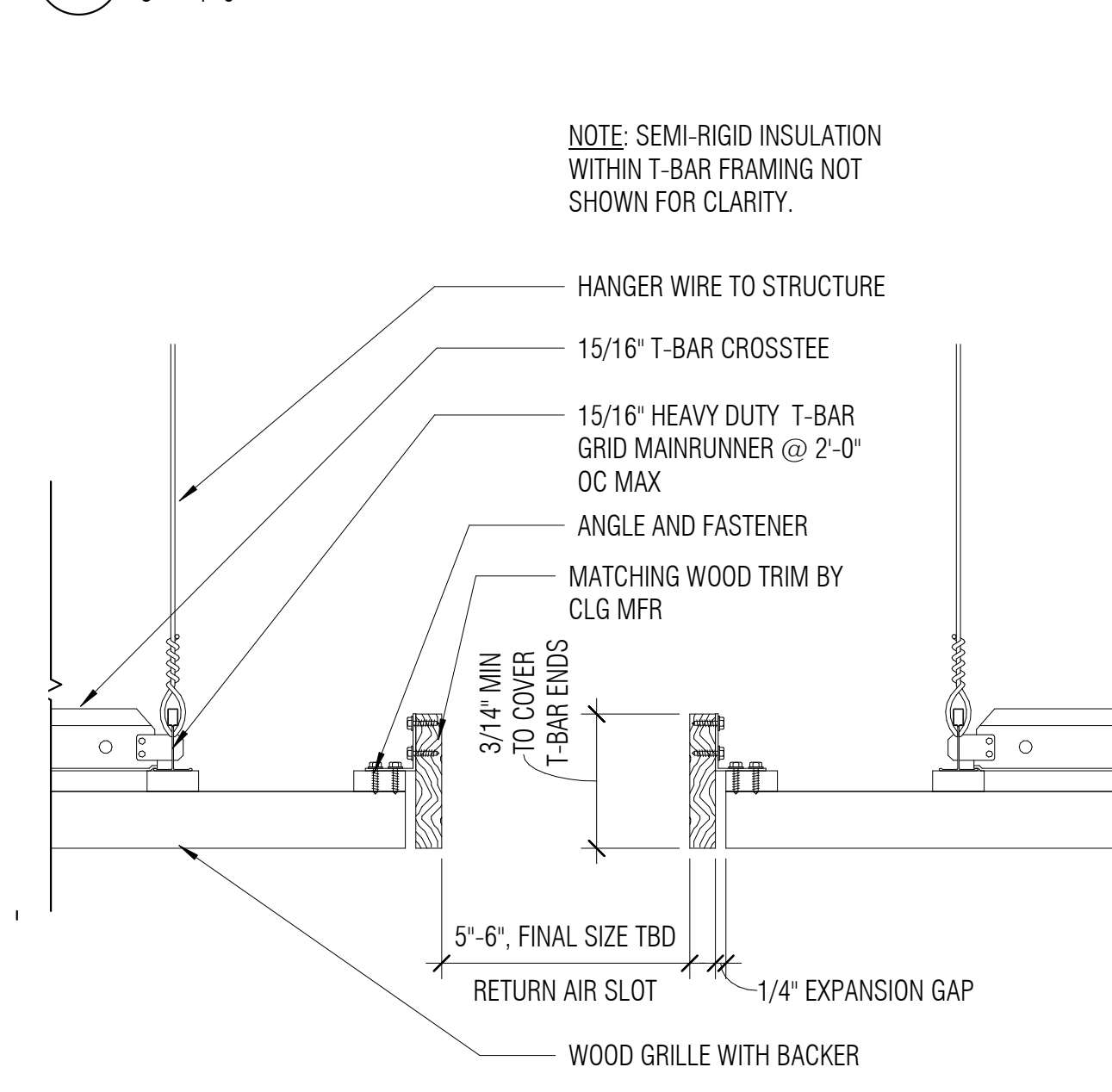
19 WOOD GRILLE - TRANSITION TO HUNG WALLS AT LIGHTWELL
3' = 1'-0"



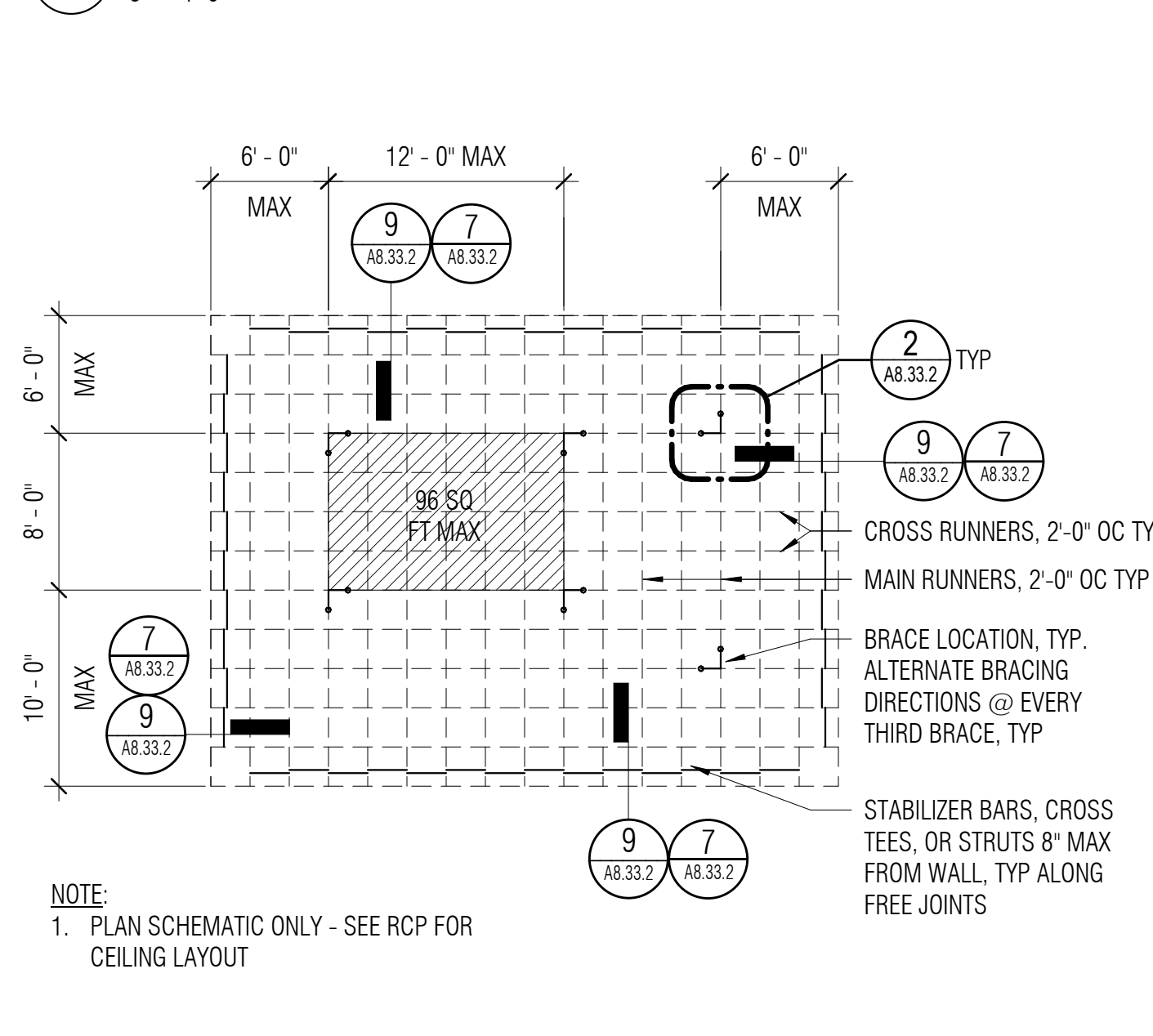
11 LINEAR WOOD CLG - TRANSITION TO LIGHTWELL @ ENDS
3' = 1'-0"



7 SECTION - WALL PERIMETER
3' = 1'-0"



3 SUSPENDED WOOD CEILING STUD TYPE STRUT/ BRACING
3' = 1'-0"



20 WINDOW SHADE SECTION
3' = 1'-0"



16 SECTION - SPRINKLER
3' = 1'-0"



12 PARALLEL GRILLE - OPEN PERIMETER W/ TRIM
3' = 1'-0"



8 PERPENDICULAR GRILLE - OPEN PERIMETER w/ TRIM
3' = 1'-0"



4 BRACE ASSEMBLY SPACING PLAN @ FLOATING WD CEILING
NTS



PROJECT TITLE

**CONTRA COSTA
CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION &
RENOVATION**

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San Ramon, CA 94582

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ISSUE TITLE

INCREMENT 2

ISSUE DATE 5/30/2019

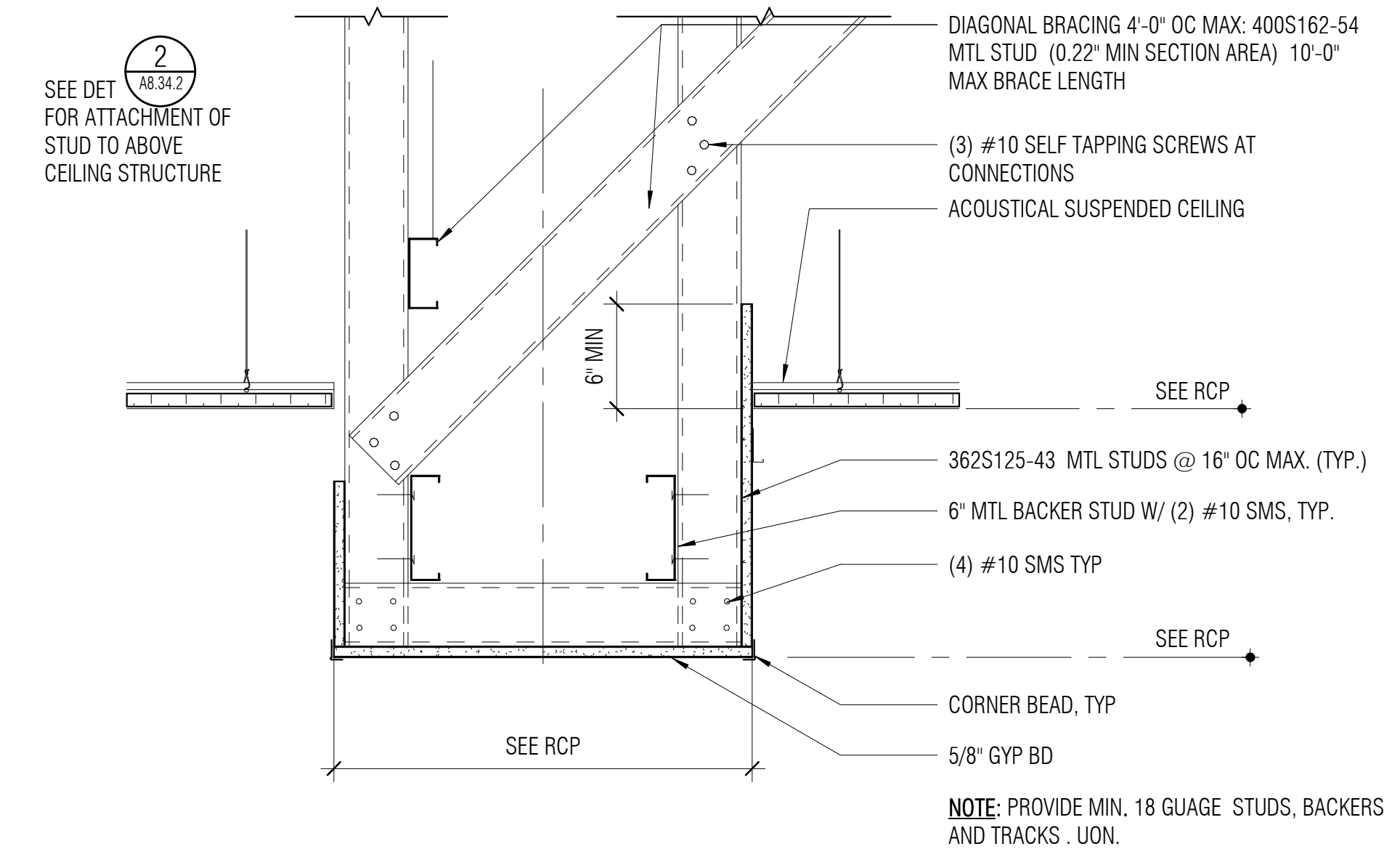
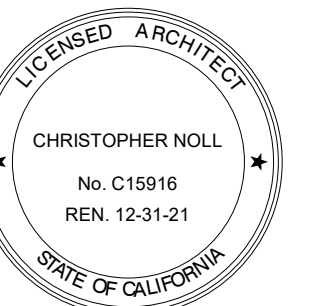
NOLL & TAM JOB NUMBER 21630

| REVISIONS | DATE | DESCRIPTION |
|-----------|---------|--------------|
| 1 | 1/19/21 | INC2 RFI 216 |

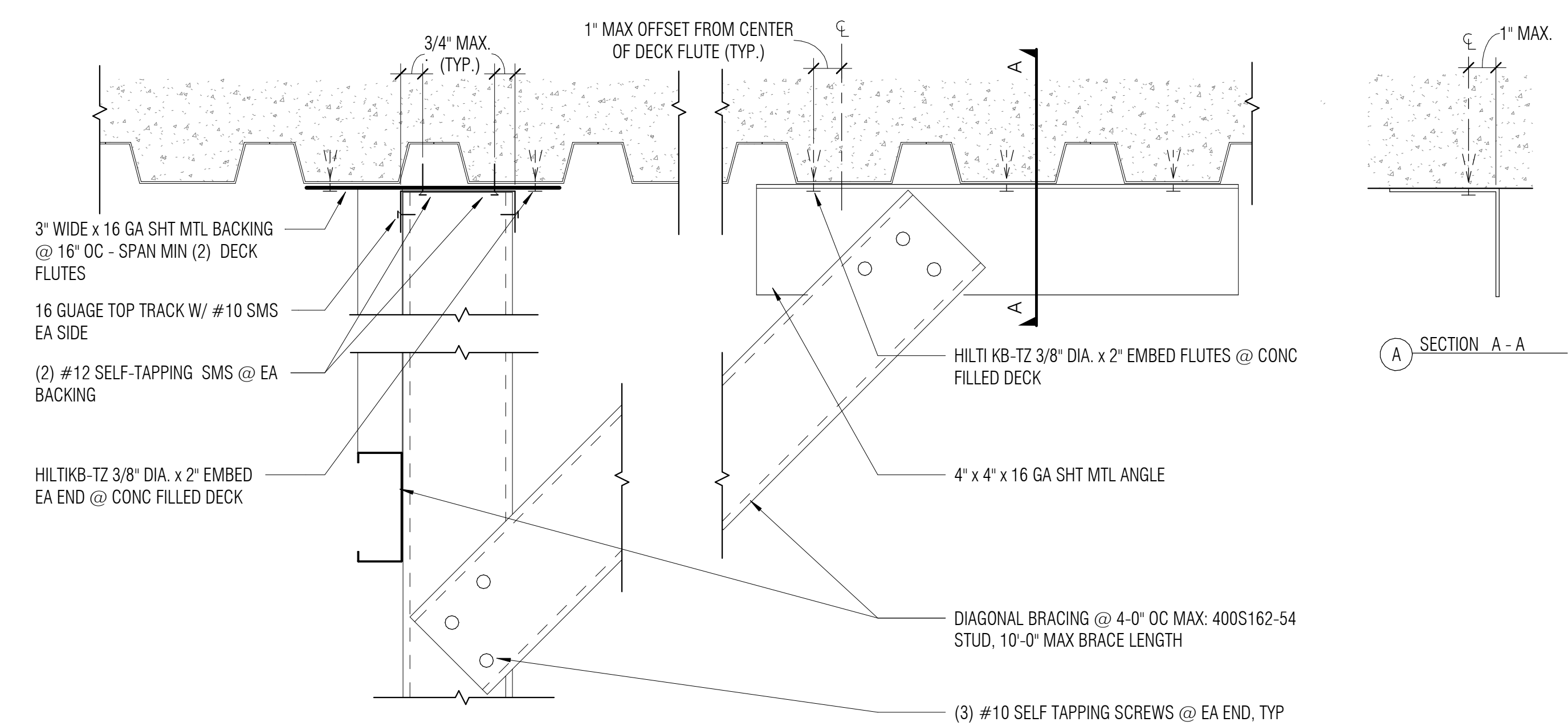
SHEET TITLE
**INTERIOR CEILING
DETAILS - LINEAR
WOOD CEILINGS**

SHEET NUMBER

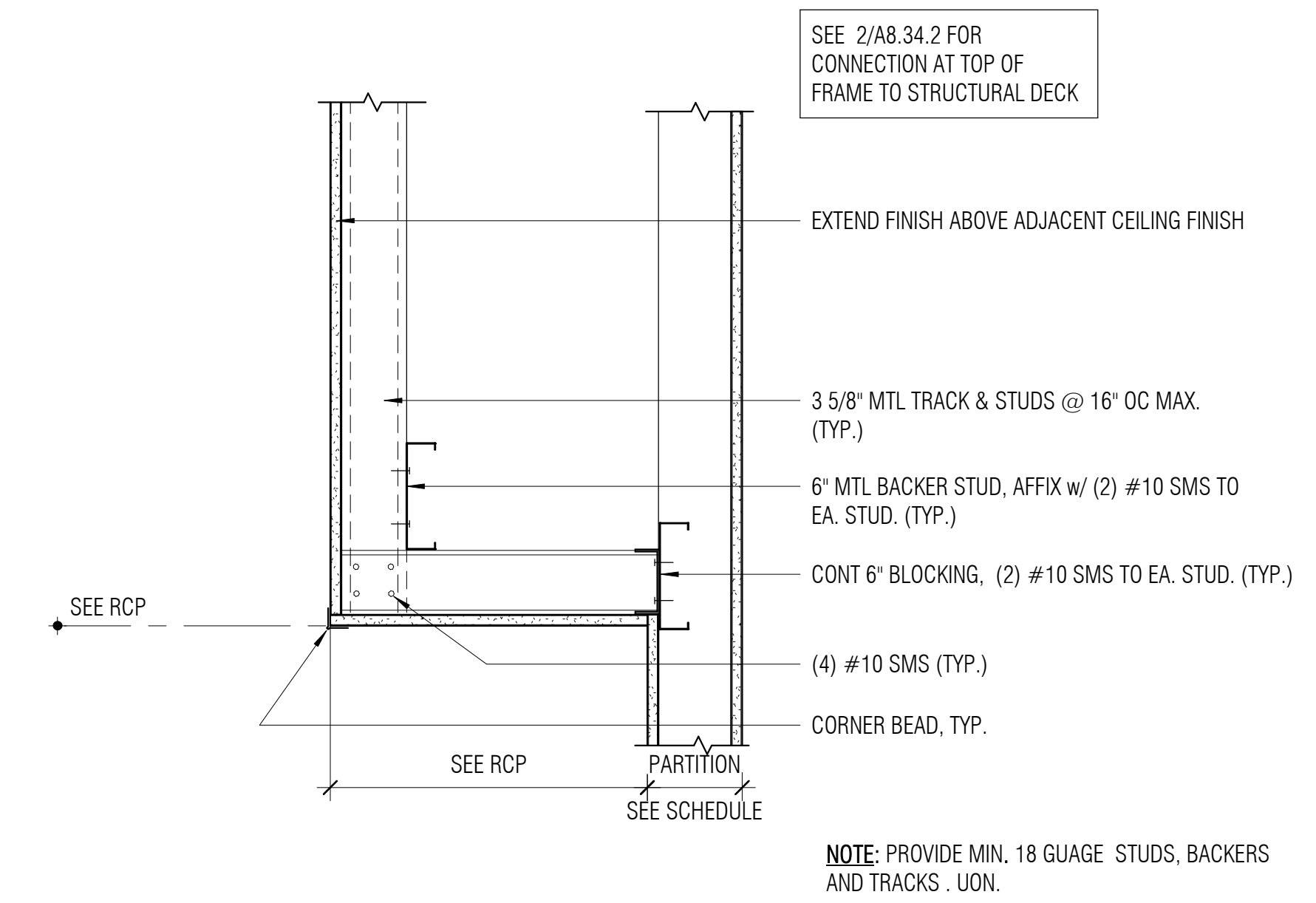
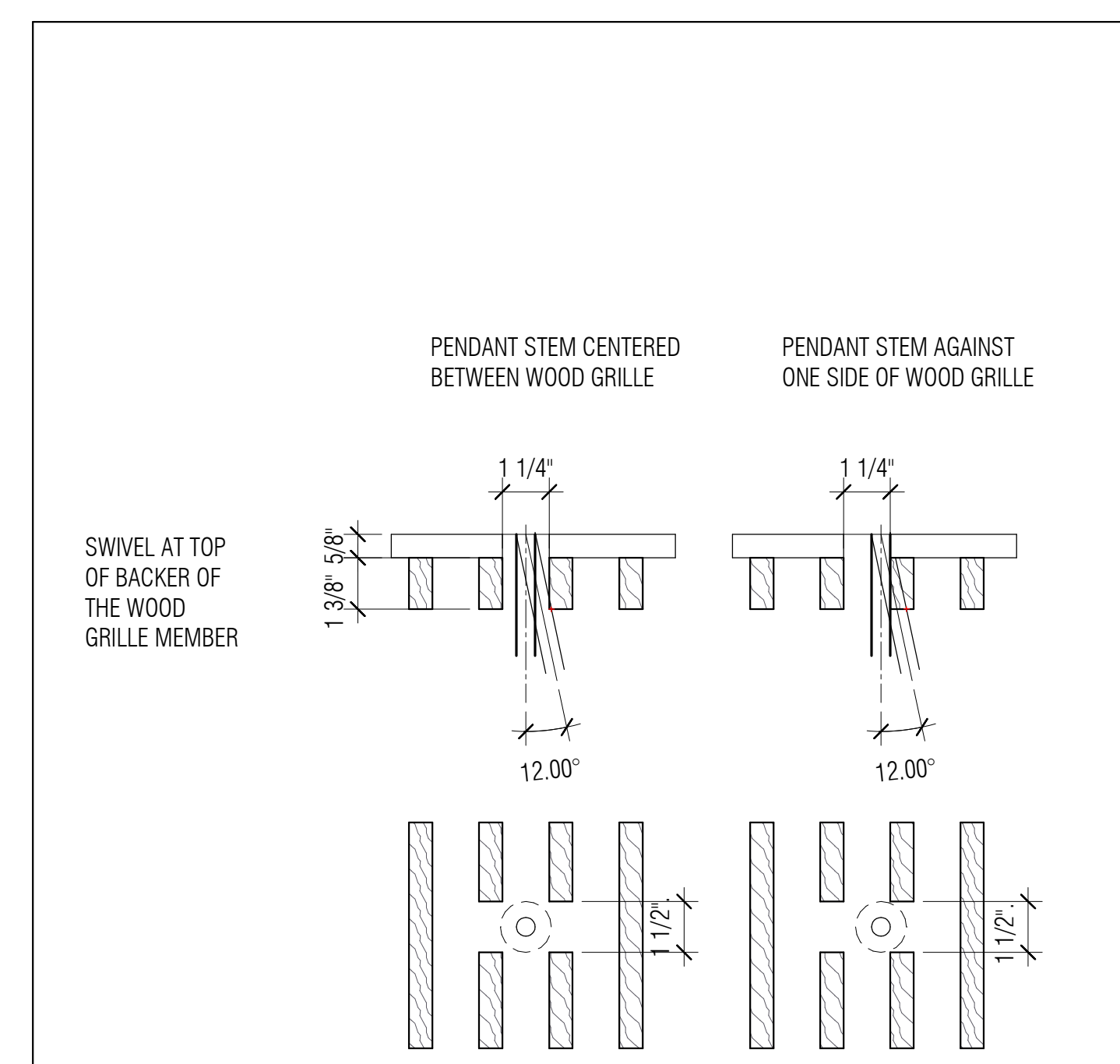
A8.33.2



1 SUSPENDED STUD CEILING
1 1/2" = 1'-0"



2 CEILING HUNG WALL - SOFFIT - ATTACHMENT TO STRUCTURE
3" = 1'-0"



3 GYPSUM BOARD SOFFIT
1 1/2" = 1'-0"

PROJECT TITLE

**CONTRA COSTA
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D-4002
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CAMPUS EXPANSION &
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ISSUE TITLE

INCREMENT 2

ISSUE DATE: 5/30/2019

NOLL & TAM JOB NUMBER: 21630

| REVISIONS | DATE | DESCRIPTION |
|-----------|------|-------------|
| | | |

SHEET TITLE

**INTERIOR SOFFIT
DETAILS**

SHEET NUMBER

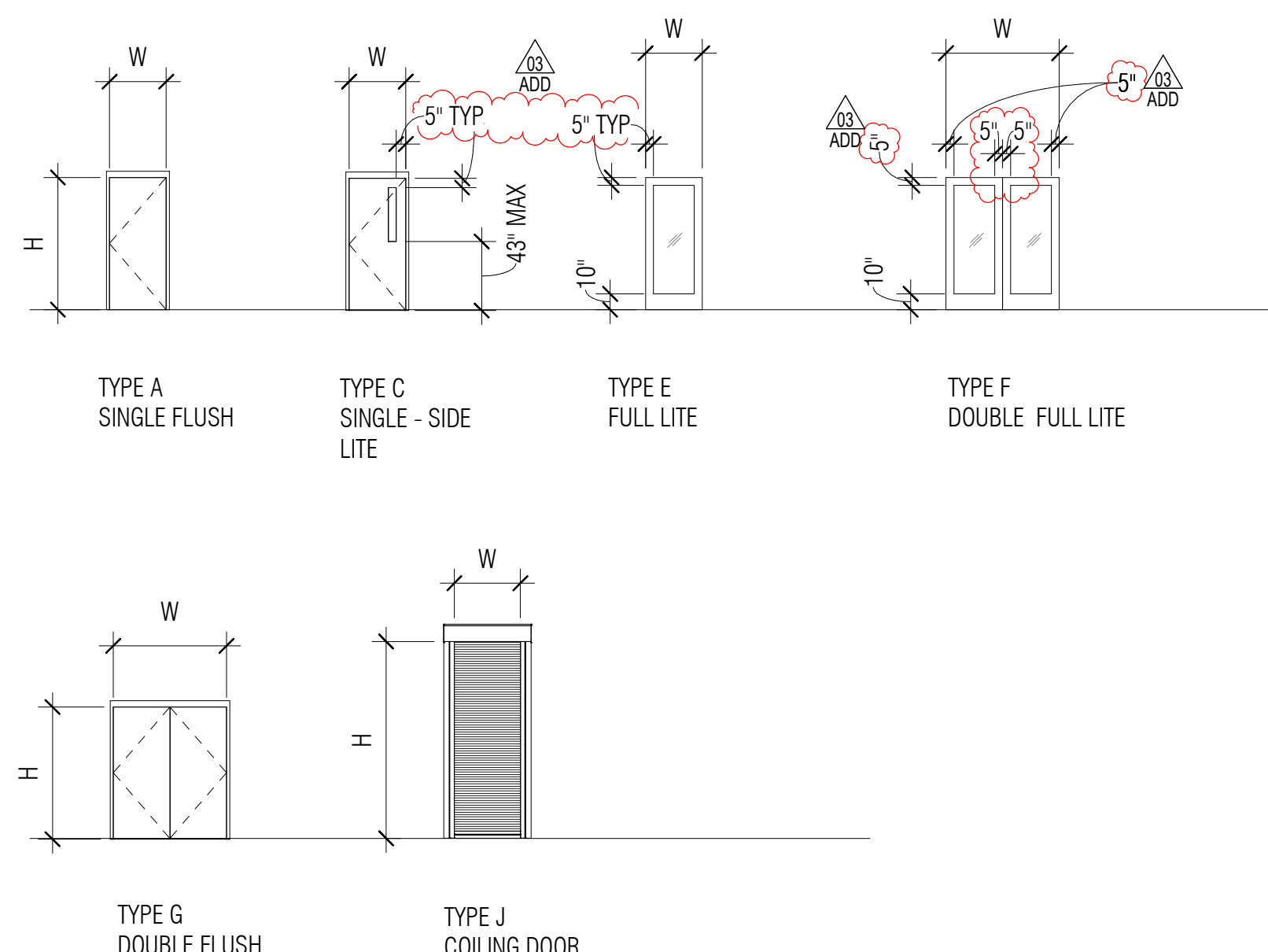
A8.34.2

| | | | |
|--|--|---|-----------------------------|
| | | DVC SAN RAMON CAMPUS EXPANSION 1690 Watermill Rd. San Ramon, CA 94582 | SKETCH #: ASK-001 |
| | | PROJECT #: 21630 DRAWING REF: 6/A8.32.2 REF #: ASI 25 DATE: 2/12/21 | SCALE: 1/8" = 1'-0" |

ASI#25 - CONTRACTOR IT TO TRIM WOOD GRILLE MEMBER TO ALLOW FOR THE FREE SWING 12 DEGREE FROM VERTICAL. SEE ATTACHED SKETCHES. FINISH EDGES OF GRILLE MEMBER

RFI #231 - DOOR 101A, DOOR 101B - SURFACE RACEWAY ON MULLION; DOOR 107D - INTEGRATED LOCKS PER RFI 46; DOOR 107A - INTEGRATED LOCKS
 RFI #248 - DOOR 101A, DOOR 101B - REINSTALLED IN KIND WITH EXISTING HARDWARE; DOOR 101B - DOOR NEW - REUSE EXISTING HARDWARE - PROVIDE NEW FOR OTHERS.

| DOOR SCHEDULE - INCREMENT 2 | | | | | | | | | | | | | | |
|-----------------------------|------|-------|--------|-----------|----------|--------|-------------|----------------|----------|--------|---------------|---------------|------------------|---|
| Door Number | Type | Door | | | Material | Door | | Hardware Group | Frame | | Details | | | Comments |
| | | Width | Height | Thickness | | Finish | Fire Rating | | Material | Finish | Head Detail | Jamb Detail | Threshold Detail | |
| 01A | F | 6'-0" | 8'-0" | 0'-1 3/4" | AL | FF | NON-RATED | 1.0 | AL | FF | 2/A6.61.2 | 3/A6.61.2 | 4/A6.61.2 | PANIC HARDWARE - ACCESS CONTROL - POWERED DOOR - ACTIVATE ONE LEAF - THEORY OF OPERATION NARRATIVE - FAIL SECURE - POWER VERTICAL ACUATOR |
| 02A | E | 3'-0" | 7'-0" | 0'-1 3/4" | SC | FF | NON-RATED | 3.0 | AL | FF | 4/A8.51.2 | 2/A8.51.2 | 7A/A8.51.2 | MORTISE - INDICATOR ON ESCUTCHEON FOR LOCKED/UNLOCKED - THUMBTURN |
| 03A | E | 3'-0" | 7'-0" | 0'-1 3/4" | SC | FF | NON-RATED | 3.0 | AL | FF | 4/A8.51.2 | 2/A8.51.2 | 7A/A8.51.2 | MORTISE - INDICATOR ON ESCUTCHEON FOR LOCKED/UNLOCKED - THUMBTURN |
| 04A | E | 3'-0" | 7'-0" | 0'-1 3/4" | SC | FF | NON-RATED | 3.0 | AL | FF | 4/A8.51.2 | 2/A8.51.2 | 7A/A8.51.2 | MORTISE - INDICATOR ON ESCUTCHEON FOR LOCKED/UNLOCKED - THUMBTURN |
| 05A | E | 3'-0" | 7'-0" | 0'-1 3/4" | SC | FF | NON-RATED | 3.0 | AL | FF | 4/A8.51.2 | 2/A8.51.2 | 7A/A8.51.2 | MORTISE - INDICATOR ON ESCUTCHEON FOR LOCKED/UNLOCKED - THUMBTURN |
| 06A | E | 3'-0" | 7'-0" | 0'-1 3/4" | SC | FF | NON-RATED | 3.0 | AL | FF | 4/A8.51.2 | 2/A8.51.2 | 7A/A8.51.2 | MORTISE - INDICATOR ON ESCUTCHEON FOR LOCKED/UNLOCKED - THUMBTURN |
| 09A | E | 3'-0" | 7'-0" | 0'-1 3/4" | SC | FF | NON-RATED | 3.0 | AL | FF | 4/A8.51.2 | 2/A8.51.2 | 7A/A8.51.2 | MORTISE - INDICATOR ON ESCUTCHEON FOR LOCKED/UNLOCKED - THUMBTURN |
| 09B | A | 3'-0" | 7'-0" | 0'-1 3/4" | SC | FF | NON-RATED | 3.0 | AL | FF | 1/A8.51.2 | 2/A8.51.2 | 7A/A8.51.2 | MORTISE - INDICATOR ON ESCUTCHEON FOR LOCKED/UNLOCKED - THUMBTURN |
| 10A | A | 3'-0" | 7'-0" | 0'-1 3/4" | SC | FF | NON-RATED | 5.0 | AL | FF | 1/A8.51.2 | 2/A8.51.2 | 2A/A8.51.2 | STORAGE LOCK |
| 11A | A | 4'-0" | 7'-0" | 0'-1 3/4" | SC | FF | NON-RATED | 25.0 | HM | PTD | 14/A8.51.2 | 14/A8.51.2 | 5B/A8.21.2 | STORAGE LOCK, STC 45 MIN. PAINT FRAME TO LOOK SIMILAR TO ANODIZED ALUM INTERIOR FRAMES. COLOR TBD |
| 13A | A | 3'-0" | 7'-0" | 0'-1 3/4" | SC | FF | NON-RATED | 6.0 | AL | FF | 1/A8.51.2 | 2/A8.51.2 | 2A/A8.21.2 | |
| 14A | A | 3'-0" | 7'-0" | 0'-1 3/4" | SC | FF | NON-RATED | 5.0 | AL | FF | 1/A8.51.2 | 2/A8.51.2 | 2A/A8.21.2 | |
| 20A | F | 6'-0" | 8'-0" | 0'-1 3/4" | AL | FF | NON-RATED | 1.0 | AL | FF | 2/A6.61.2 | 3/A6.61.2 | 4/A6.61.2 | PANIC HARDWARE - ACCESS CONTROL - POWERED DOOR - ACTIVATE ONE LEAF - THEORY OF OPERATION NARRATIVE - FAIL SECURE - POWER VERTICAL ACUATOR |
| 20B | C | 3'-0" | 7'-0" | 0'-1 3/4" | AL | FF | NON-RATED | 7.0 | AL | FF | 2/A6.61.2 | 6/A6.22.2 SIM | 4/A6.61.2 SIM | PANIC HARDWARE WITH LOCAL BUZZER EXIT ONLY ALARM - KEYED MASTER FOR POLICE SERVICE ACCESS - |
| 101A | F | 6'-0" | 7'-0" | 0'-1 3/4" | AL | FF | NON-RATED | 8.0 | (E) AL | (E) | - | - | - | REPLACE (E) DOOR WITHIN (E) FRAME FOR ACCESS CONTROL UPGRADE. DOOR FINISH TO MATCH (E) FRAME & BY SAME MFR AS (E). REPLACE THRESHOLD AS NEEDED FOR (N) FLOORING (ADA / CH.11B COMPLIANT). |
| 101B | F | 6'-0" | 7'-0" | 0'-1 3/4" | AL | FF | NON-RATED | 8.0 | (E) AL | (E) | - | - | - | REPLACE (E) DOOR WITHIN (E) FRAME FOR ACCESS CONTROL UPGRADE. DOOR FINISH TO MATCH (E) FRAME & BY SAME MFR AS (E). REPLACE THRESHOLD AS NEEDED FOR (N) FLOORING (ADA / CH.11B COMPLIANT). |
| 102A | A | 3'-0" | 7'-0" | 0'-1 3/4" | (E) SC | (E) | NON-RATED | 3.0 | (E) HM | PTD | - | - | - | HARDWARE UPGRADE - OFFICE LOCK - MORTISE THUMBTURN |
| 103A | A | 3'-0" | 7'-0" | 0'-1 3/4" | (E) SC | (E) | NON-RATED | 10.0 | (E) HM | PTD | - | - | 5A/A8.21.2 | ACCESS CONTROL - OFFICE LOCK - MORTISE THUMBTURN |
| 103AA | G | 5'-0" | 7'-0" | 0'-1 3/4" | SC | FF | NON-RATED | 20.0 | HM | PTD | 6/A8.51.2 SIM | 6/A8.51.2 | 2A/A8.21.2 SIM | STORAGE LOCK; PAINT FRAME TO MATCH FRAME ON (E) DOOR 103A |
| 107A | C | 3'-0" | 7'-0" | 0'-1 3/4" | (E) HM | PTD | NON-RATED | 8.0 | (E) HM | PTD | - | - | - | (E) PANIC HARDWARE TO REMAIN - HARDWARE UPGRADE - ACCESS CONTROL |
| 107B | H | 3'-6" | 10'-0" | 0'-1 3/4" | AL | FF | NON-RATED | 15.0 | AL | FF | 16C/A8.51 | 10/A8.51.2 | 6A/A8.21.2 | MOTORIZED ROLL-UP DOOR - ALUM - FACE MOUNTED GUIDERAILS |
| 107C | G | 6'-0" | 8'-0" | 0'-1 3/4" | SC | FF | NON-RATED | 21.0 | HM | PTD | 6/A8.51.2 SIM | 6/A8.51.2 | 2A/A8.21.2 SIM | STORAGE LOCK; PAINT FRAME TO MATCH FRAME ON (E) DOOR 103A |
| 107D | A | 3'-0" | 7'-0" | 0'-1 3/4" | (E) HM | PTD | NON-RATED | 8.0 | (E) HM | PTD | - | - | - | (E) PANIC HARDWARE TO REMAIN - EXIT ONLY - NO ALARM - VERIFY WITH CAFE USER GROUP. REPLACE (E) THRESHOLD IF NOT COMPATIBLE W/ NEW INTERIOR FLOORING. NOTIFY ARCHITECT. |
| 107E | A | 2'-6" | 7'-0" | 0'-1 3/4" | SC | FF | NON-RATED | 5.0 | HM | PTD | 6/A8.51.2 | 6/A8.51.2 | 6B/A8.21.2 | STORAGE LOCK |
| 108A | A | 3'-0" | 7'-0" | 0'-1 3/4" | (E) HM | PTD | NON-RATED | 5.0 | (E) HM | PTD | - | - | - | SEAL DOOR TO MAKE INOPERABLE |
| 168A | C | 3'-0" | 7'-0" | 0'-1 3/4" | HM | PTD | 45 MIN. | 27.0 | (E) HM | (E) | - | - | 4/A6.11.1 sim | PANIC HARDWARE - ACCESS CONTROL |
| 229A | C | 3'-0" | 7'-0" | 0'-1 3/4" | HM | PTD | 45 MIN. | 28.0 | (E) HM | (E) | - | - | 4/A6.11.1 sim | ACCESS CONTROL |
| 229B | C | 3'-0" | 7'-0" | 0'-1 3/4" | HM | PTD | 45 MIN. | 28.0 | (E) HM | (E) | - | - | 4/A6.11.1 sim | ACCESS CONTROL |
| 231BA | C | 3'-0" | 7'-0" | 0'-1 3/4" | HM | PTD | 45 MIN. | 27.0 | (E) HM | (E) | - | - | 4/A6.11.1 sim | PANIC HARDWARE - ACCESS CONTROL |
| 301.1 | A | 3'-0" | 5'-0" | 0'-1 3/4" | HM | PTD | 60 MIN. | 26.0 | HM | PTD | 6/A8.51.2 | 6/A8.51.2 | - | PAINT DOOR AND FRAME TO MATCH (E) INTERIOR HM DOORS |



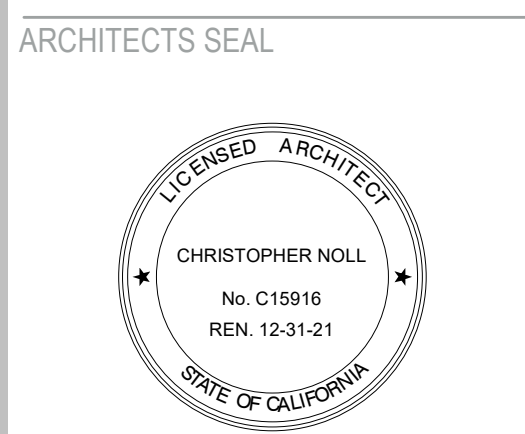
DOOR TYPES

DOOR GENERAL NOTES

- FOR THRESHOLDS, MAXIMUM 1/2" HIGH ABOVE FINISH FLOOR OR LANDINGS ON BOTH SIDES AND AT ENTRANCE DOORS. CBC 11B 404.2.5 AND 11B 303.3
- FOR DOOR CLOSERS, RESISTANCE TO PRESSURE TO BE SET AT 5 LBS FOR INTERIOR OR EXTERIOR DOORS, MAX. CBC 11B 404.2.9
- ALL NEW DOORS TO BE EQUIPPED WITH SINGLE EFFORT, NON-GRASP HARDWARE (I.E. LEVER) CENTERED BETWEEN 34" AND 44" ABOVE THE FLOOR. CBC 11B 404.2.7
- 10" KICKPLATE TO BE INSTALLED AT BOTTOM OF ALL NEW STOREFRONT TYPE DOORS. CBC 11B 404.2.1
- ALL NEW DOORS THAT ARE A MINIMUM OF 36" WIDE SHALL BE REQUIRED TO HAVE A CLEAR WIDTH OF 32" WHEN FULLY OPEN. CBC 11B-404.2.3
- DOOR HARDWARE AT EXISTING AND NEW EGRESS DOORS SHALL ALLOW DOORS TO BE READILY OPENED FROM THE EGRESS SIDE, WITHOUT THE USE OF THE KEY, SPECIAL KNOWLEDGE, OR EFFORT. CBC 1010.19
- WITHIN 24" OF EITHER SIDE OF ANY DOOR, AND / OR WHERE THERE ARE AREAS GREATER THAN 9 SQ FT IN AREA OF GLAZING WITH A BOTTOM EDGE LESS THAN 18" ABOVE THE FLOOR AND WITHIN 36" OF A WALKING SURFACE SHALL BE SAFETY GLAZED (I.E. TEMPERED), CBC 2406.4.3 AND 2406.4.5.
- HARDWARE AT NEW AND EXISTING DOORS IN AREA OF WORK SHALL BE COORDINATED AND REVIEWED WITH DISTRICT
- WHERE HARDWARE MODIFICATIONS ARE PROPOSED TO EXISTING DOORS, PROVIDE FIELD VERIFICATION OF EXISTING CONDITIONS, DOOR THICKNESS, AND MATERIAL TO CONFIRM COMPATIBILITY. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- WHERE EXISTING ALARM DEVICES/SYSTEM (BAY ALARM) ARE PRESENT AT EXISTING DOOR, THEY SHALL BE RE-INSTALLED AND MAINTAINED OPERABLE AFTER DOOR/DOOR HARDWARE MODIFICATIONS
- EXTERIOR AND INTERIOR DOOR WITH WINDOW LITE SHALL RECEIVE TEMPERED GLASS.

APPROVALS

NOLL & TAM ARCHITECTS
 729 Heinz Avenue
 Berkeley, CA 94710
 tel 510.542.2200
 fax 510.542.2201



PROJECT TITLE
**CONTRA COSTA
 CCD
 D-4002
 DVC SAN RAMON
 CAMPUS EXPANSION &
 RENOVATION**

1690 Watermill Rd.
 San Ramon, CA 94582

RECORD SET:
 THESE DRAWINGS HAVE BEEN PREPARED FROM ADDENDUMS, CCD'S, ASIS AND SELECT RFI'S OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM. ONLY A SELECT FEW AS-BUILTS WERE SUBMITTED.

ISSUE TITLE
INCREMENT 2

| | |
|-----------------------|---------------------|
| ISSUE DATE | 5/30/2019 |
| NOLL & TAM JOB NUMBER | 21630 |
| REVISIONS | |
| DATE | DESCRIPTION |
| 8/27/19 | INC 2 - ADDENDUM 03 |
| 4/17/20 | INC 2 - ASI 010 |

SHEET TITLE
**DOOR SCHEDULE &
 TYPES**

SHEET NUMBER

A8.40.2

ASI #10 - DOORS FROM INCREMENT 1 - ADDED INTO INCREMENT 2 FOR REVISIONS

SHEET NOTES

1. OVERALL DIMENSIONS ARE TO ROUGH OPENING TYPICAL UN. REFER TO SILL, JAMB, AND HEAD DETAILS FOR DIMENSION POINTS.

WINDOW ELEVATION LEGEND

Ⓣ TEMPERED GLASS

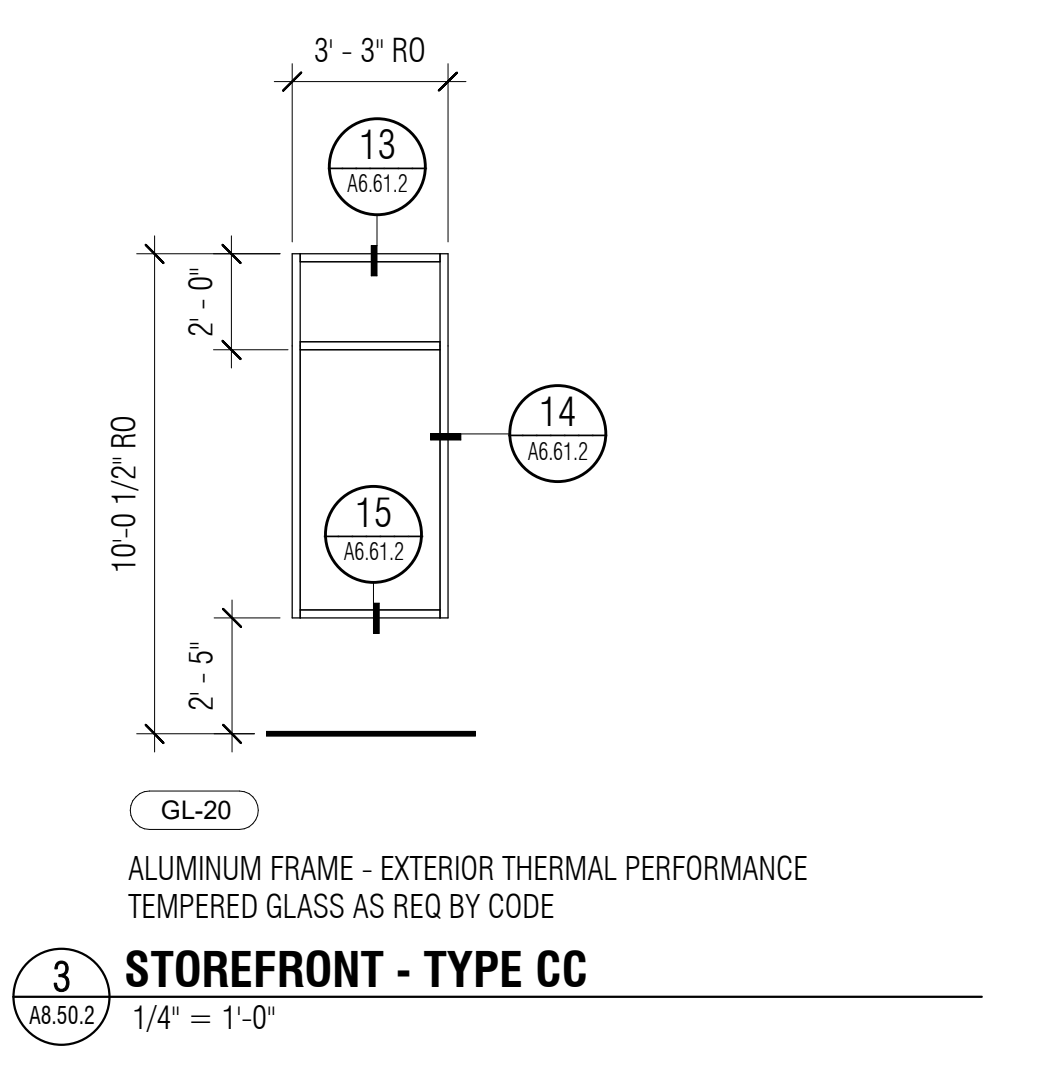
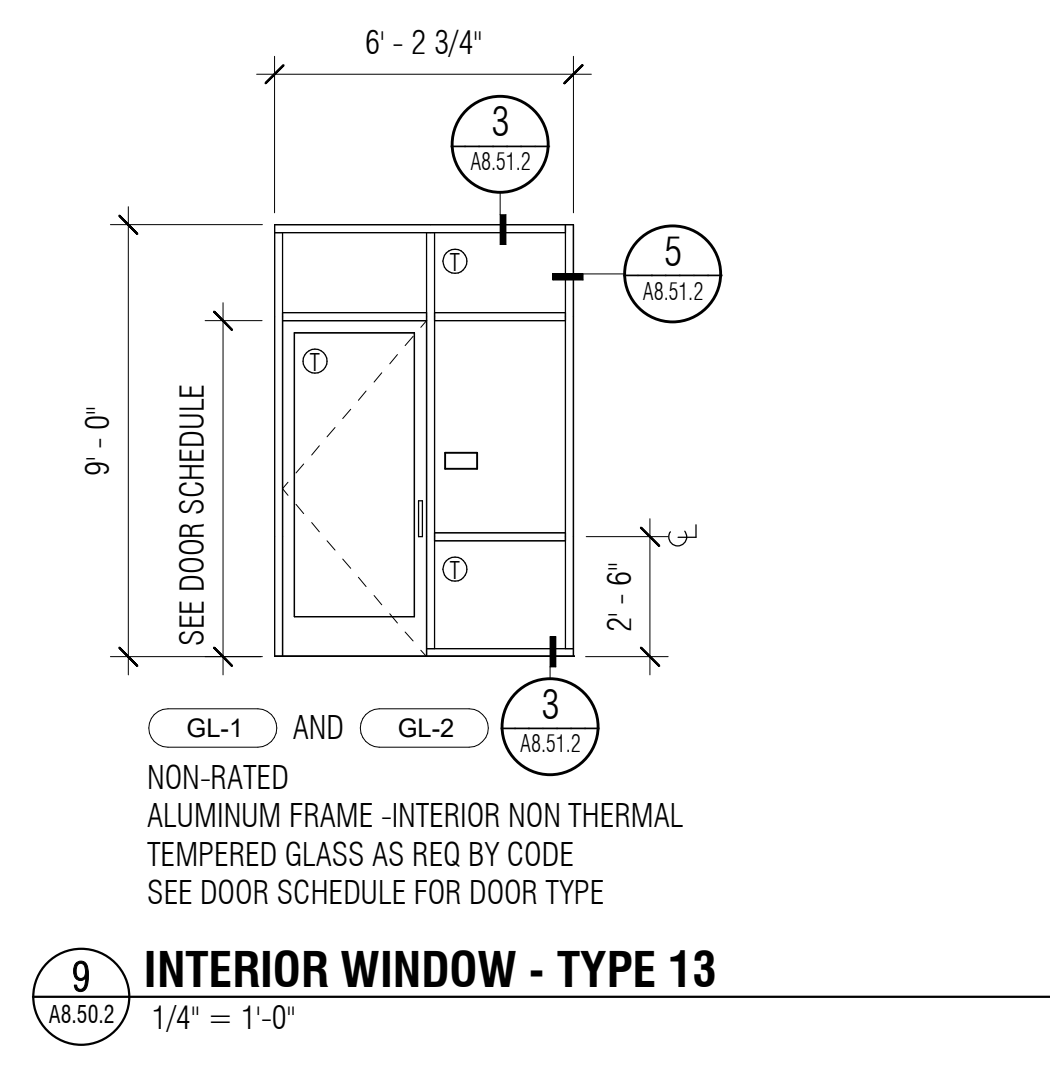
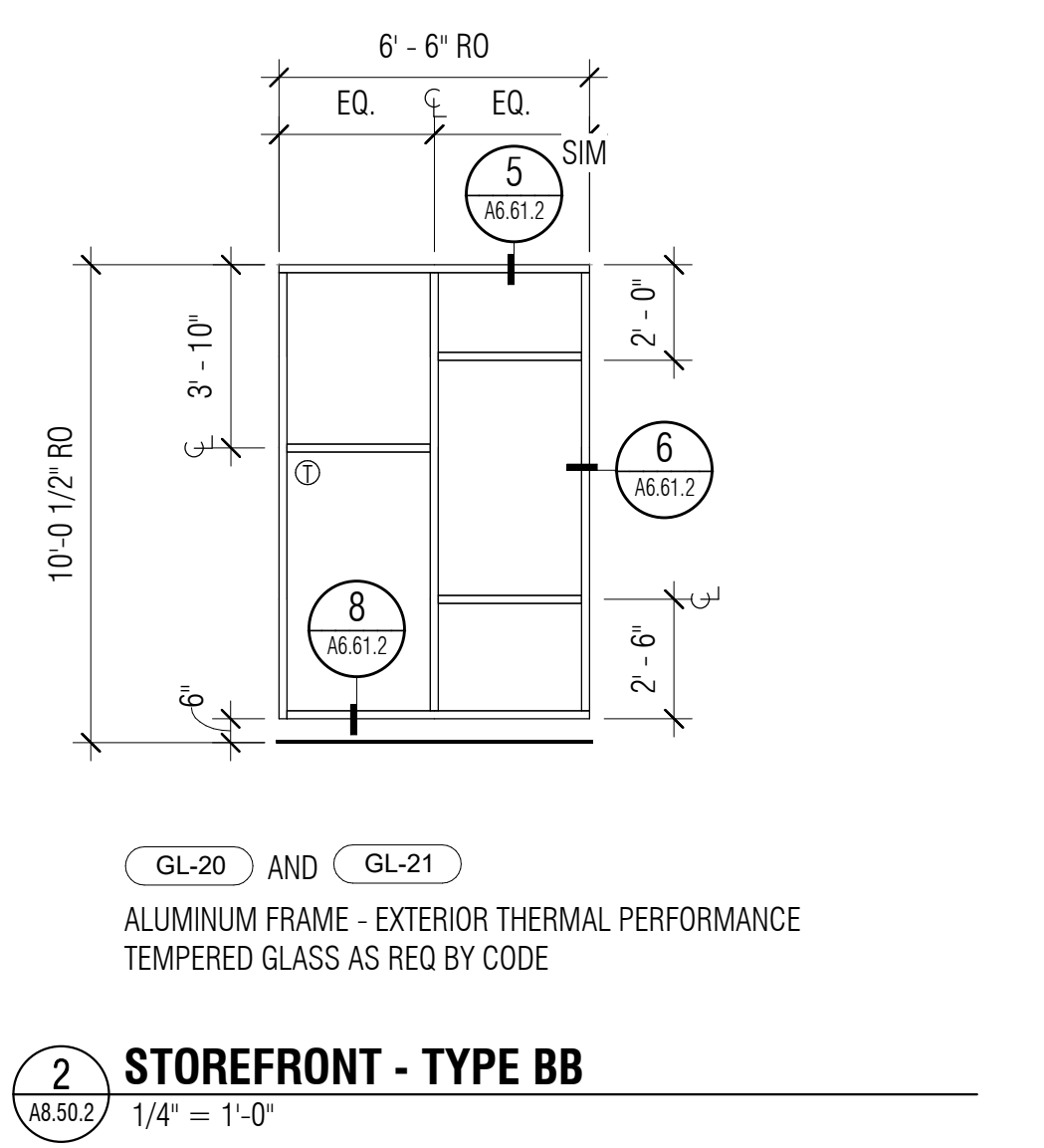
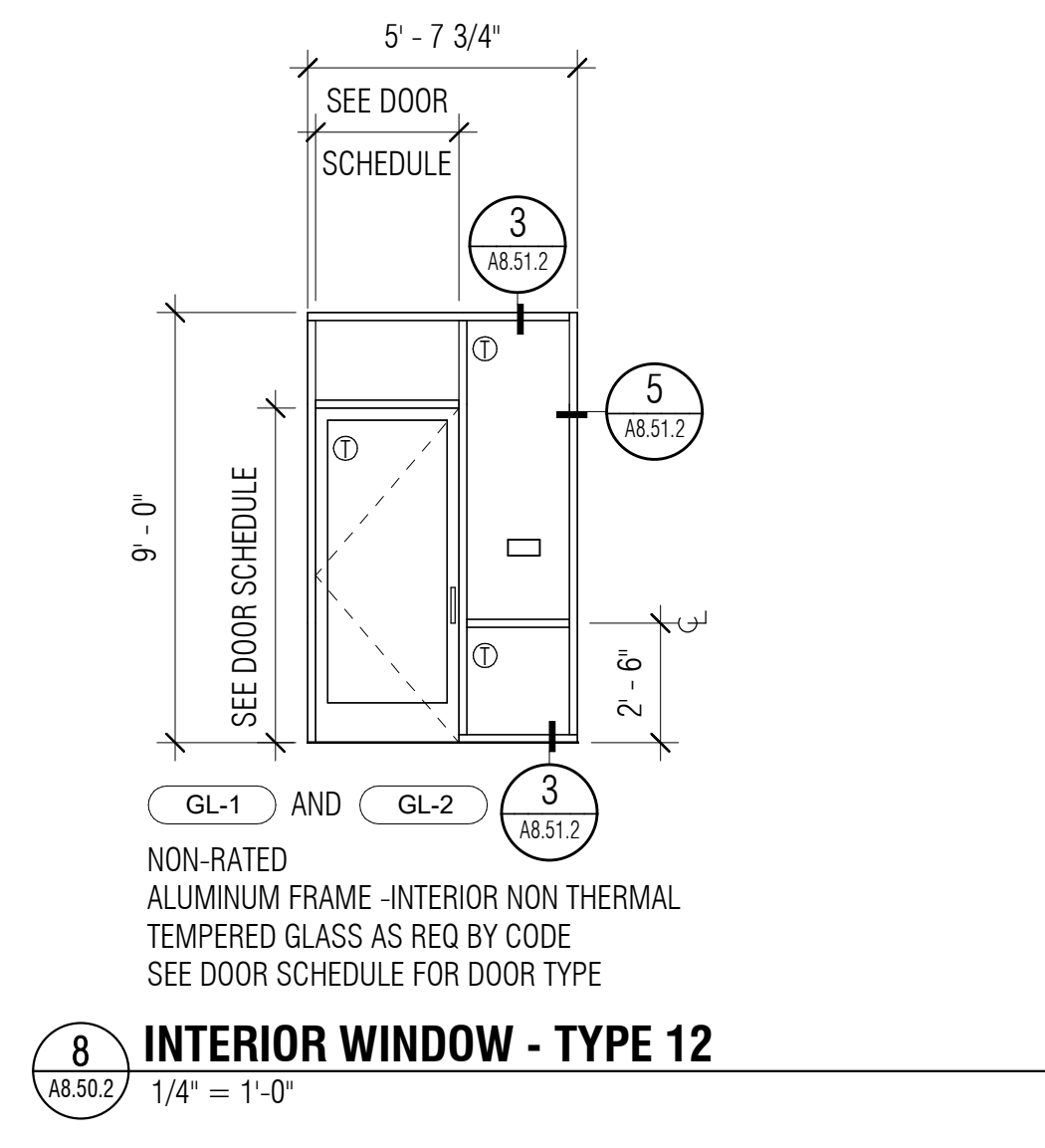
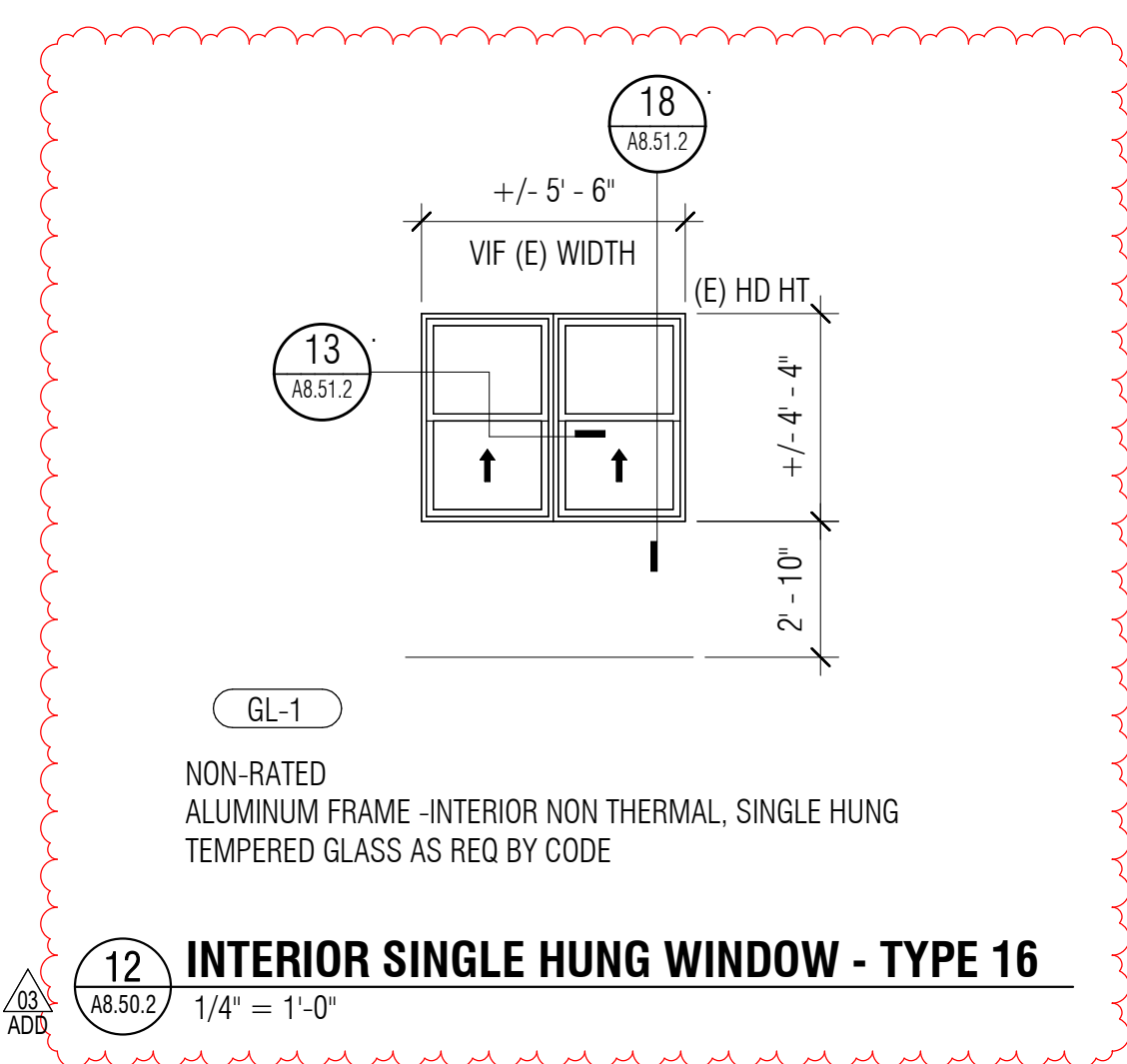
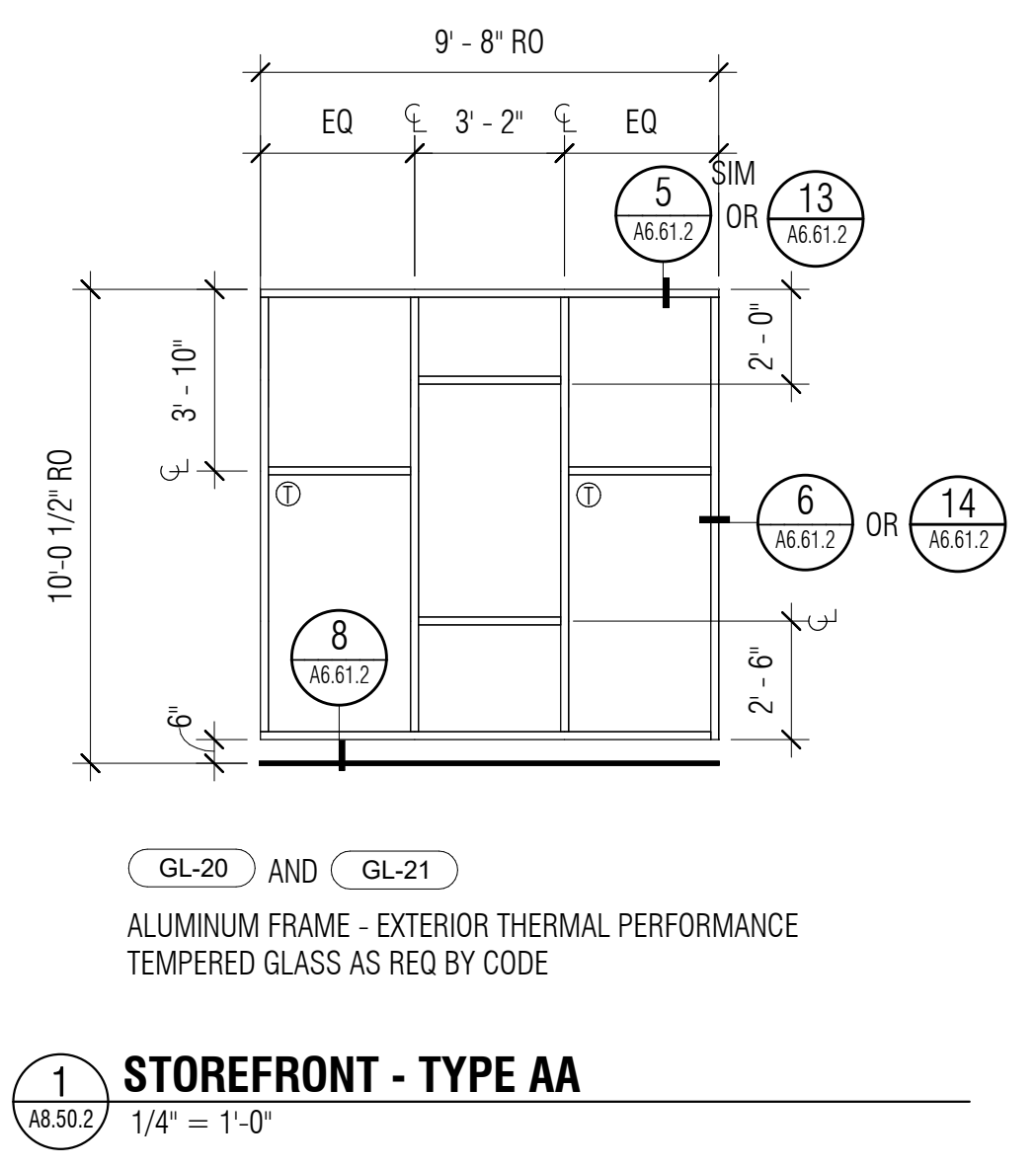
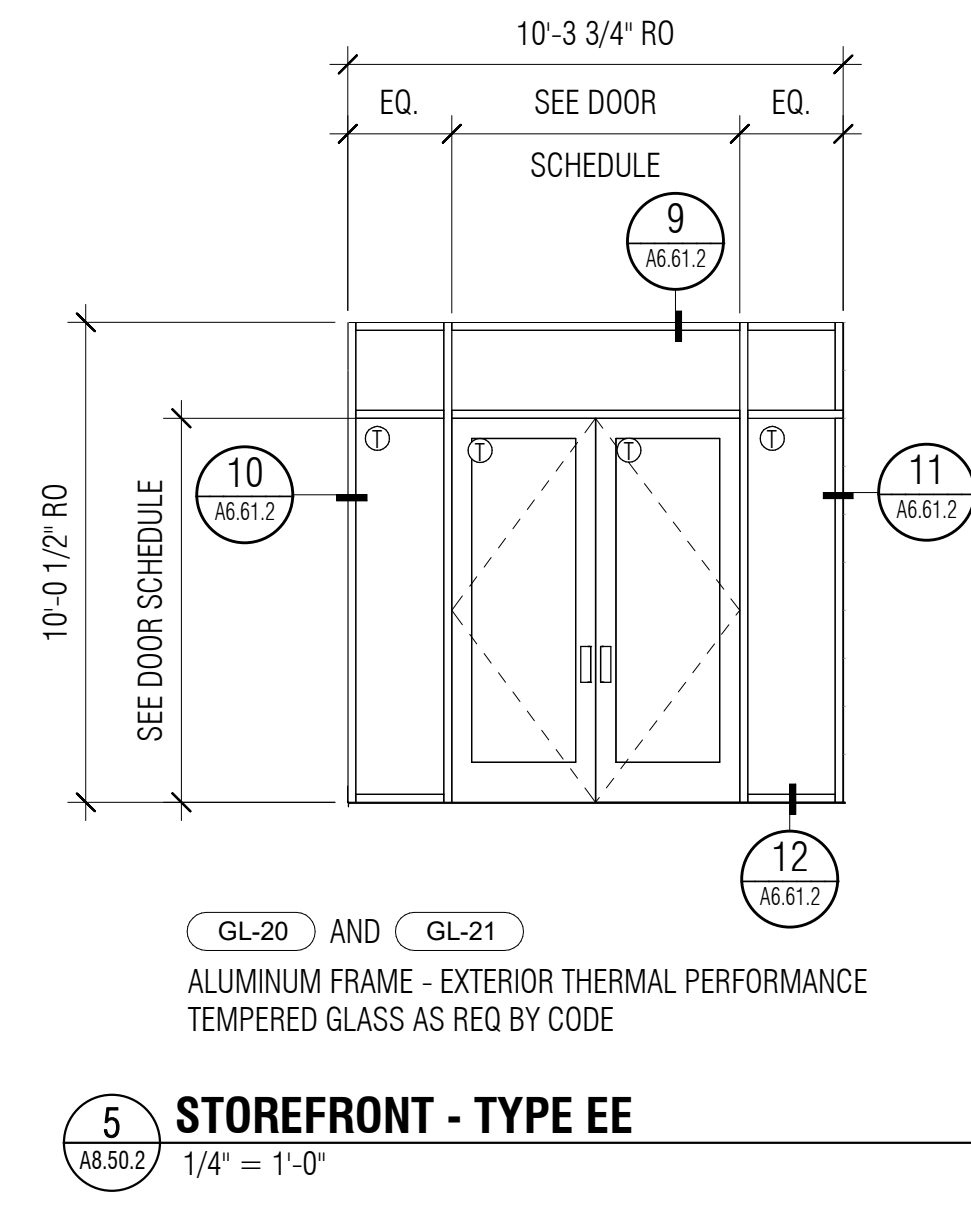
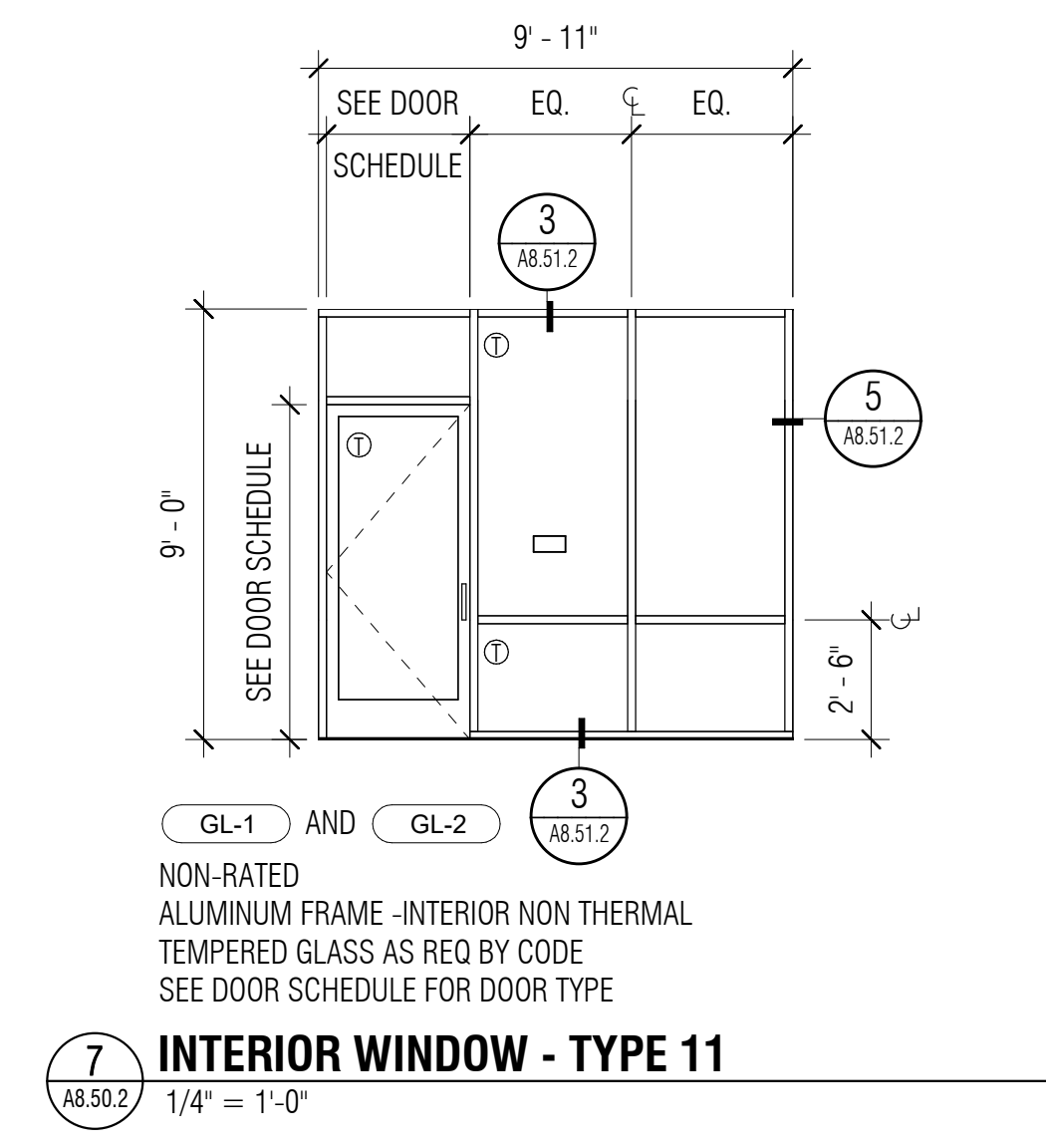
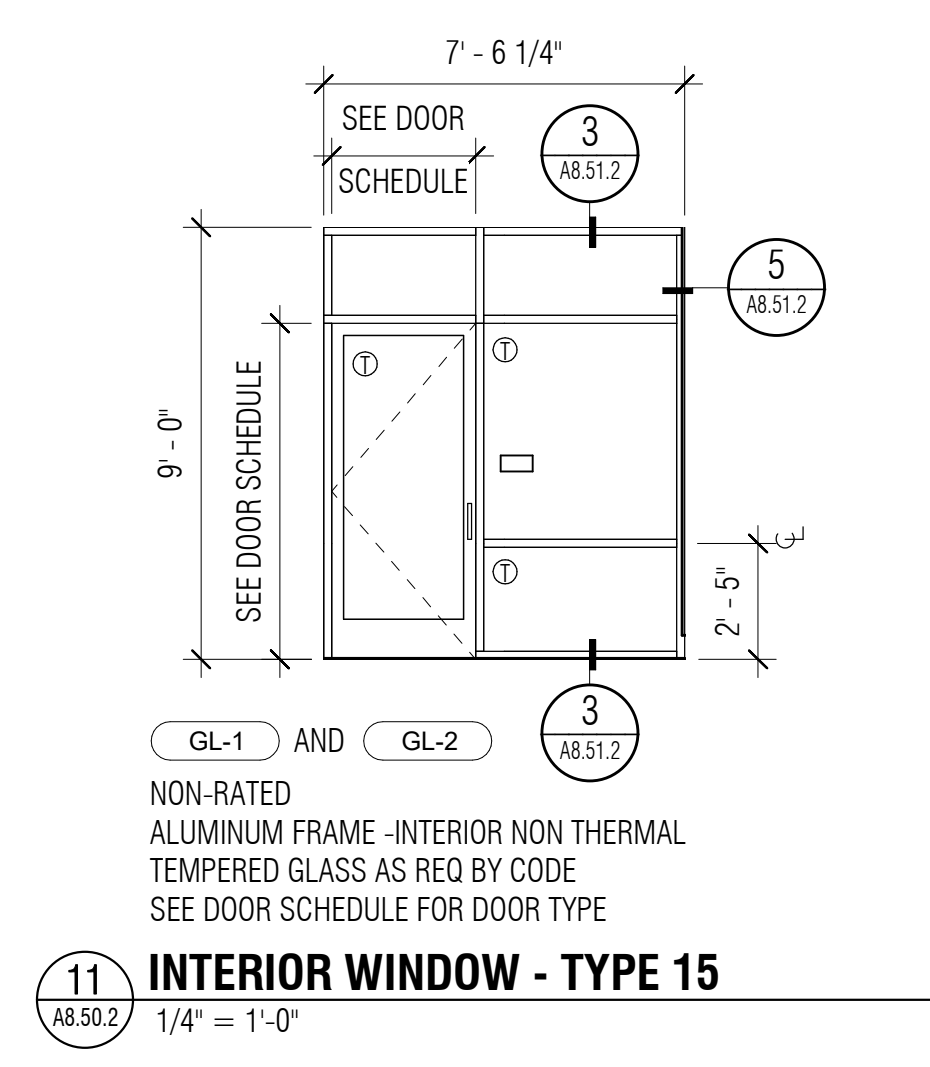
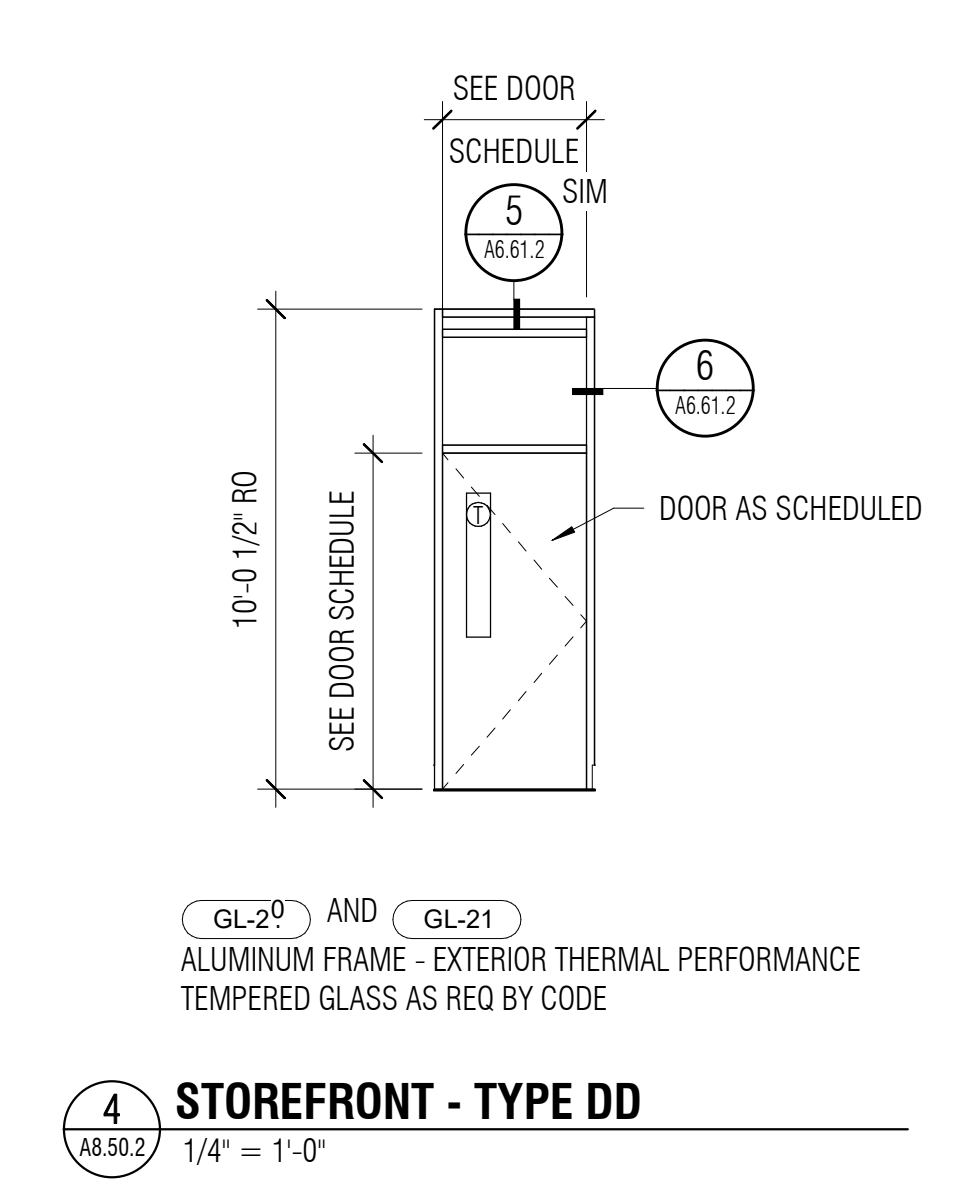
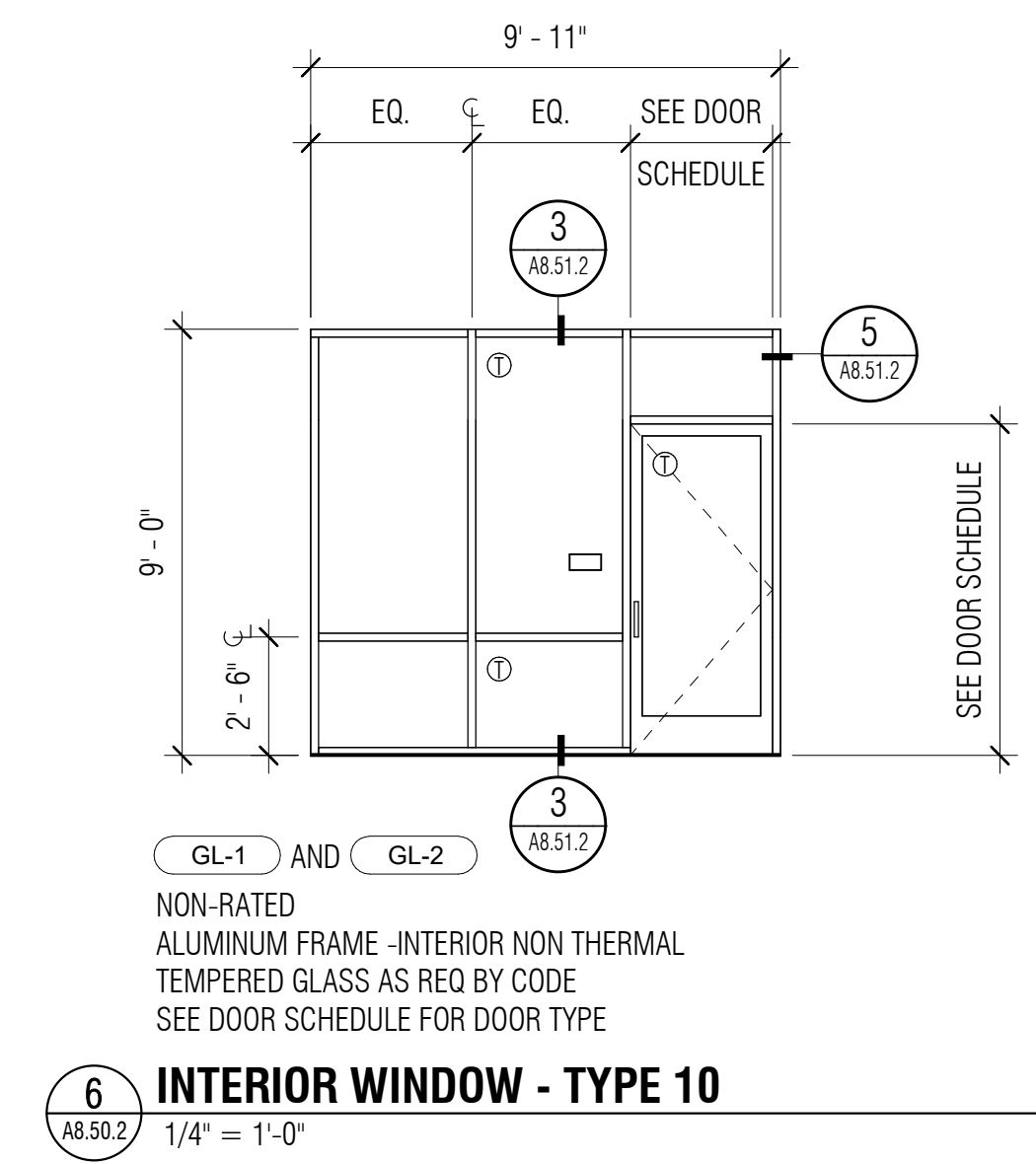
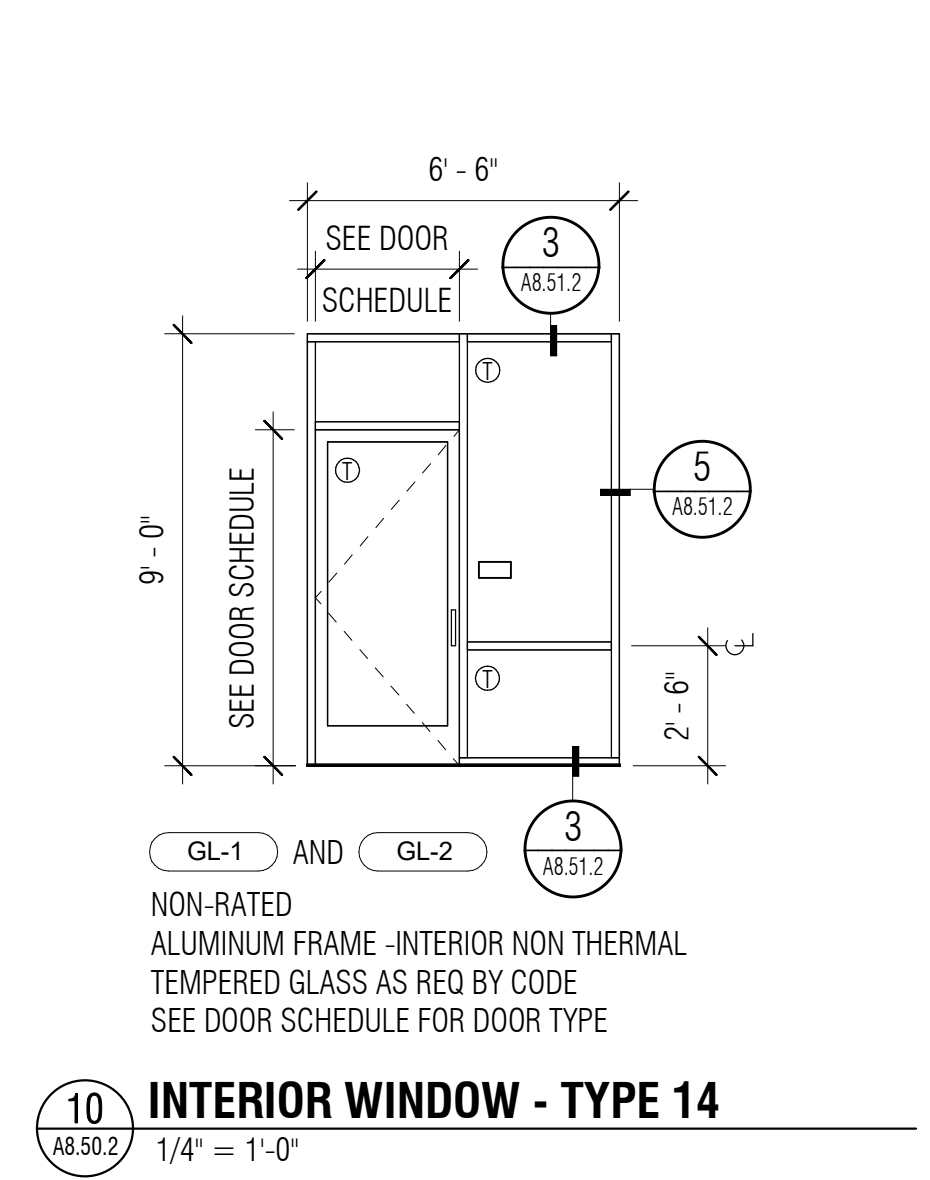
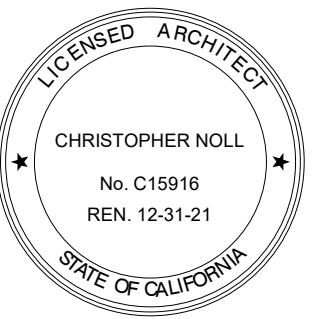
GL-00 GLAZING TYPE TAG, SEE SPECIFICATION

APPROVALS

NOLL & TAM ARCHITECTS

729 Heinz Avenue
Berkeley, CA 94710
tel 510.542.2200
fax 510.542.2201

ARCHITECTS SEAL



PROJECT TITLE

**CONTRA COSTA
CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION &
RENOVATION**

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ISSUE TITLE

INCREMENT 2

ISSUE DATE 5/30/2019

NOLL & TAM JOB NUMBER 21630

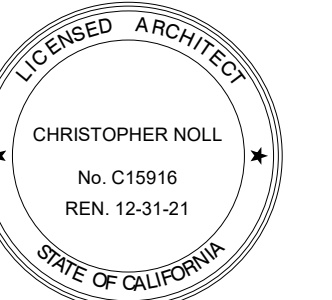
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|-----------|---------|---------------------|
| △ | 8/27/19 | INC 2 - ADDENDUM 03 |

SHEET TITLE

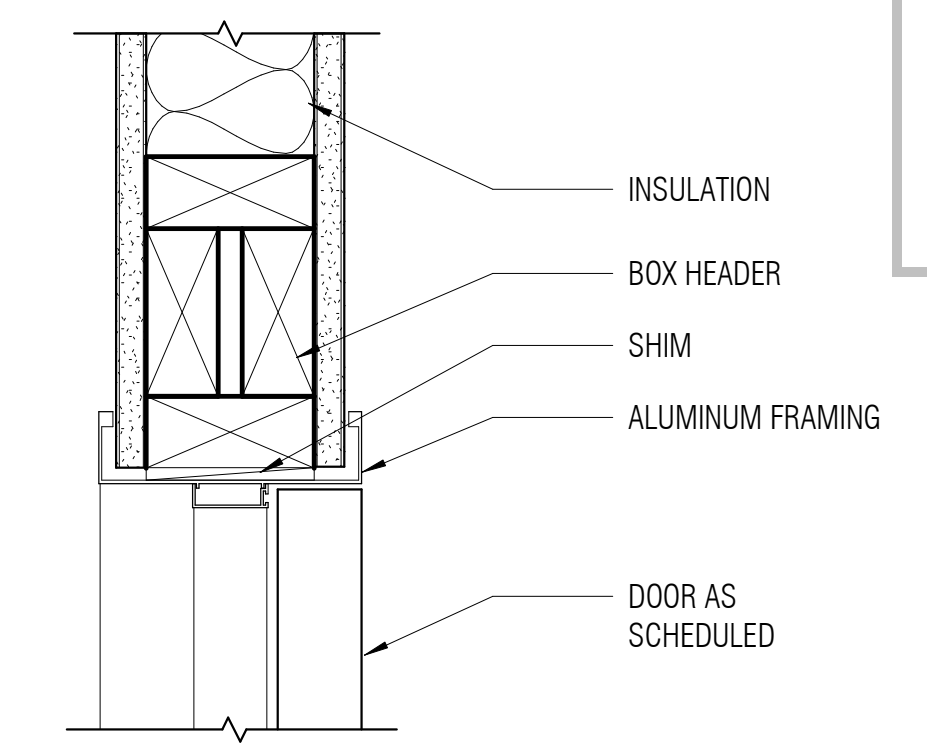
**EXTERIOR
STOREFRONT &
INTERIOR WINDOW
TYPES**

SHEET NUMBER

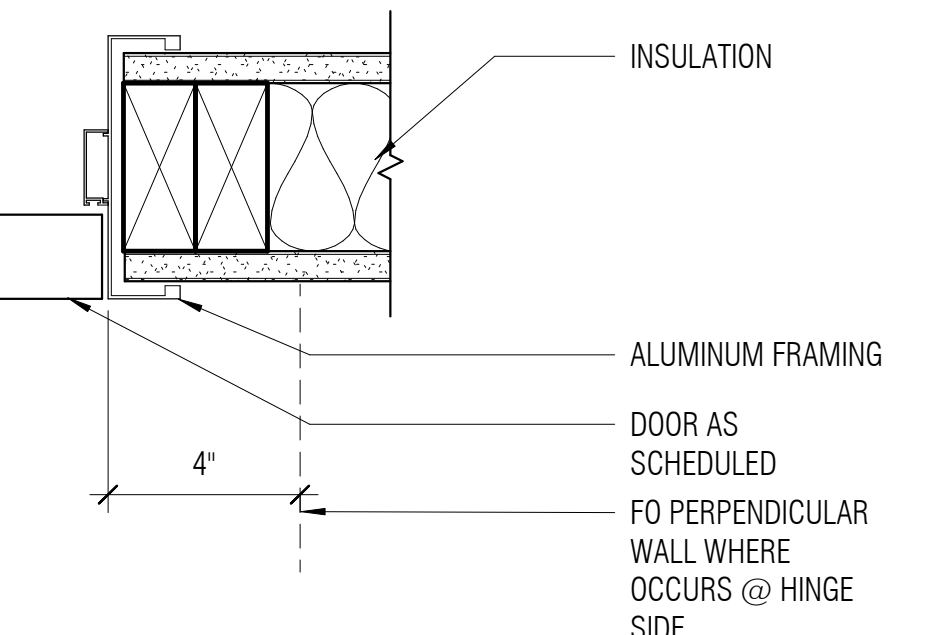
A8.50.2



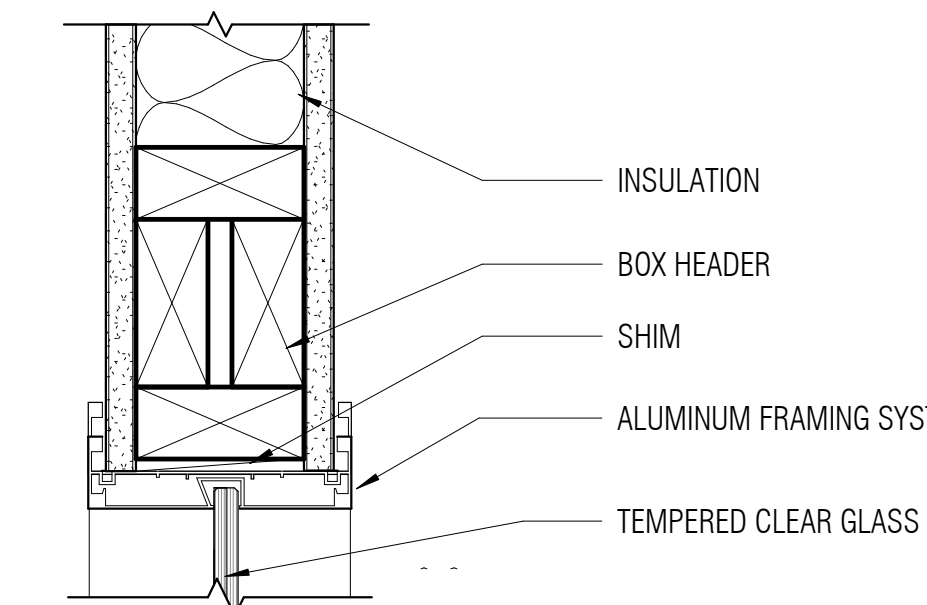
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| 8/27/19 | INC 2 - ADDENDUM 03 |
| 3/5/21 | ASI 027 |



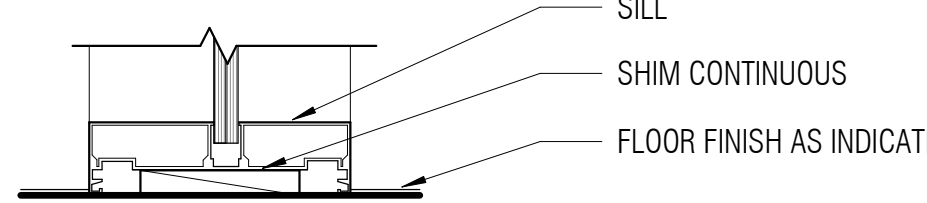
1 DOOR HEAD @ INTERIOR GLAZING SYSTEM W/O TRANSOM
A8.51.2 3' = 1'-0"



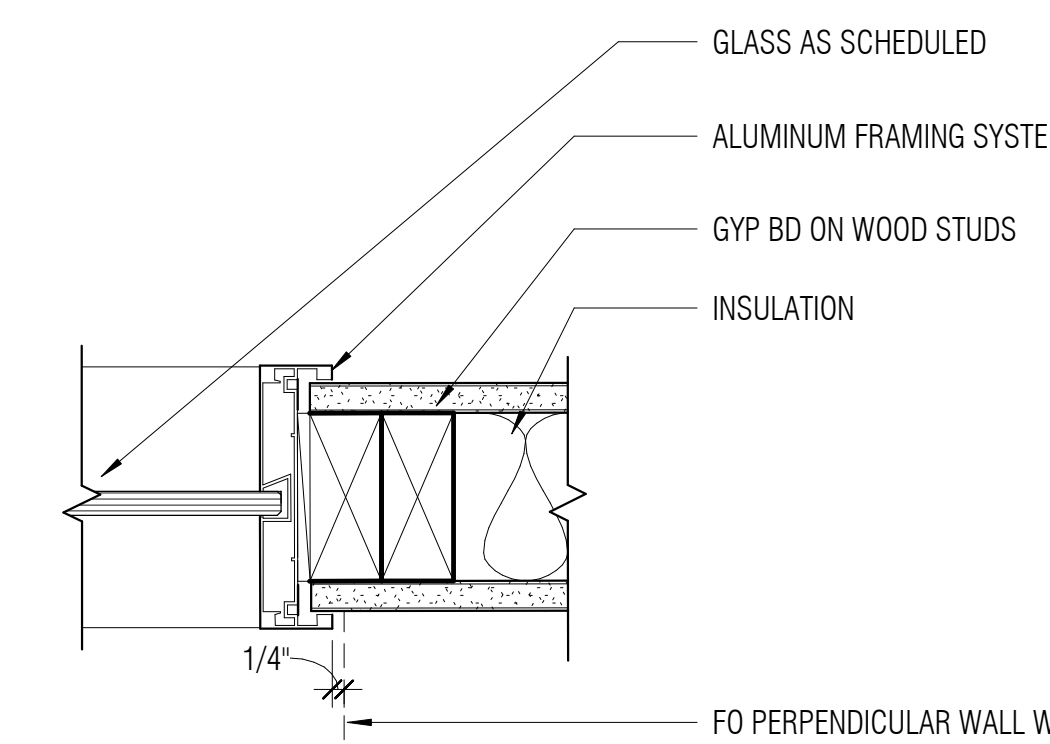
2 TYPICAL DOOR JAMB @ INTERIOR GLAZING SYSTEM (HEAD SIM)
A8.51.2 3' = 1'-0"



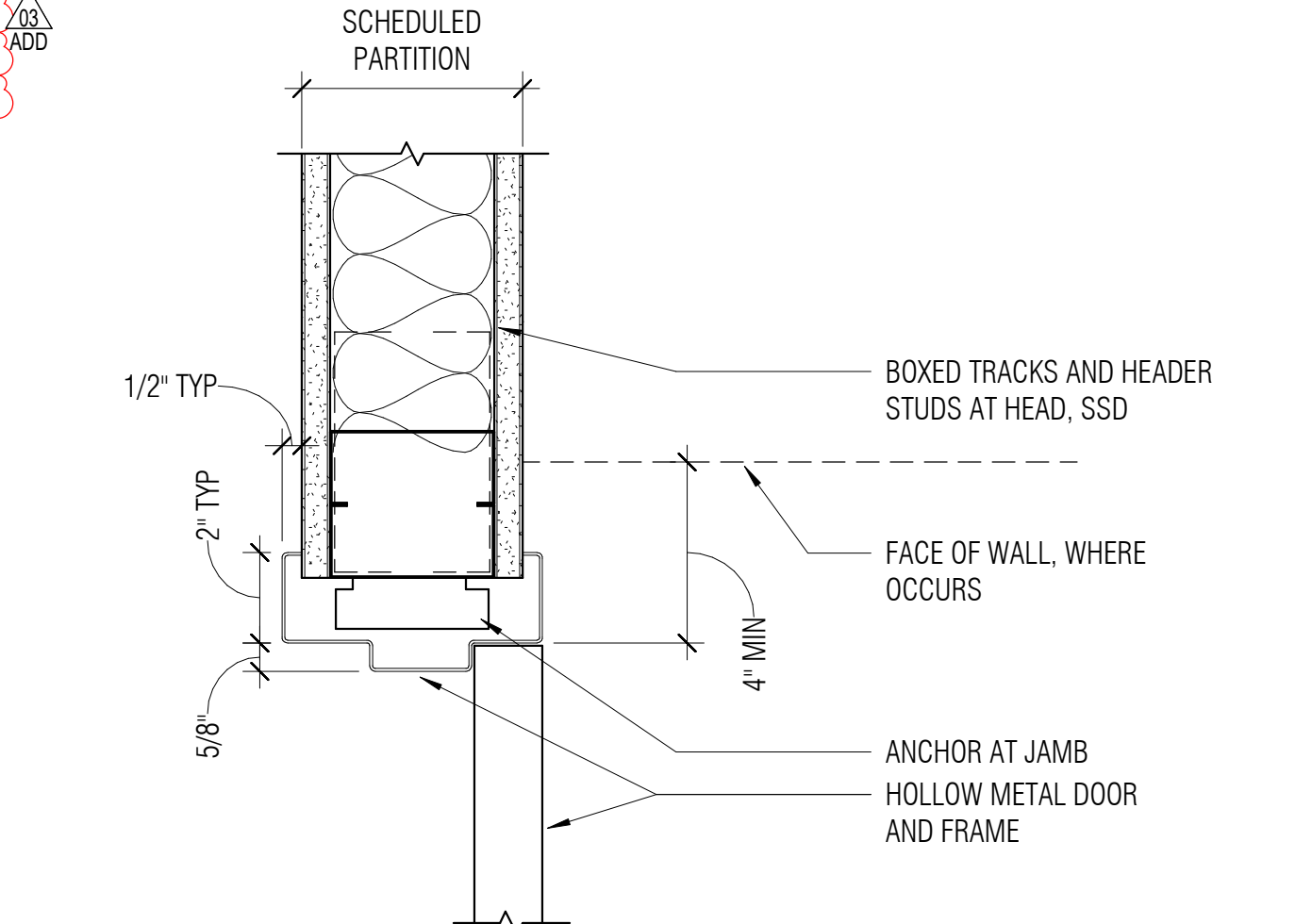
3 INTERIOR GLAZING HEAD AND SILL DETAIL
A8.51.2 3' = 1'-0"



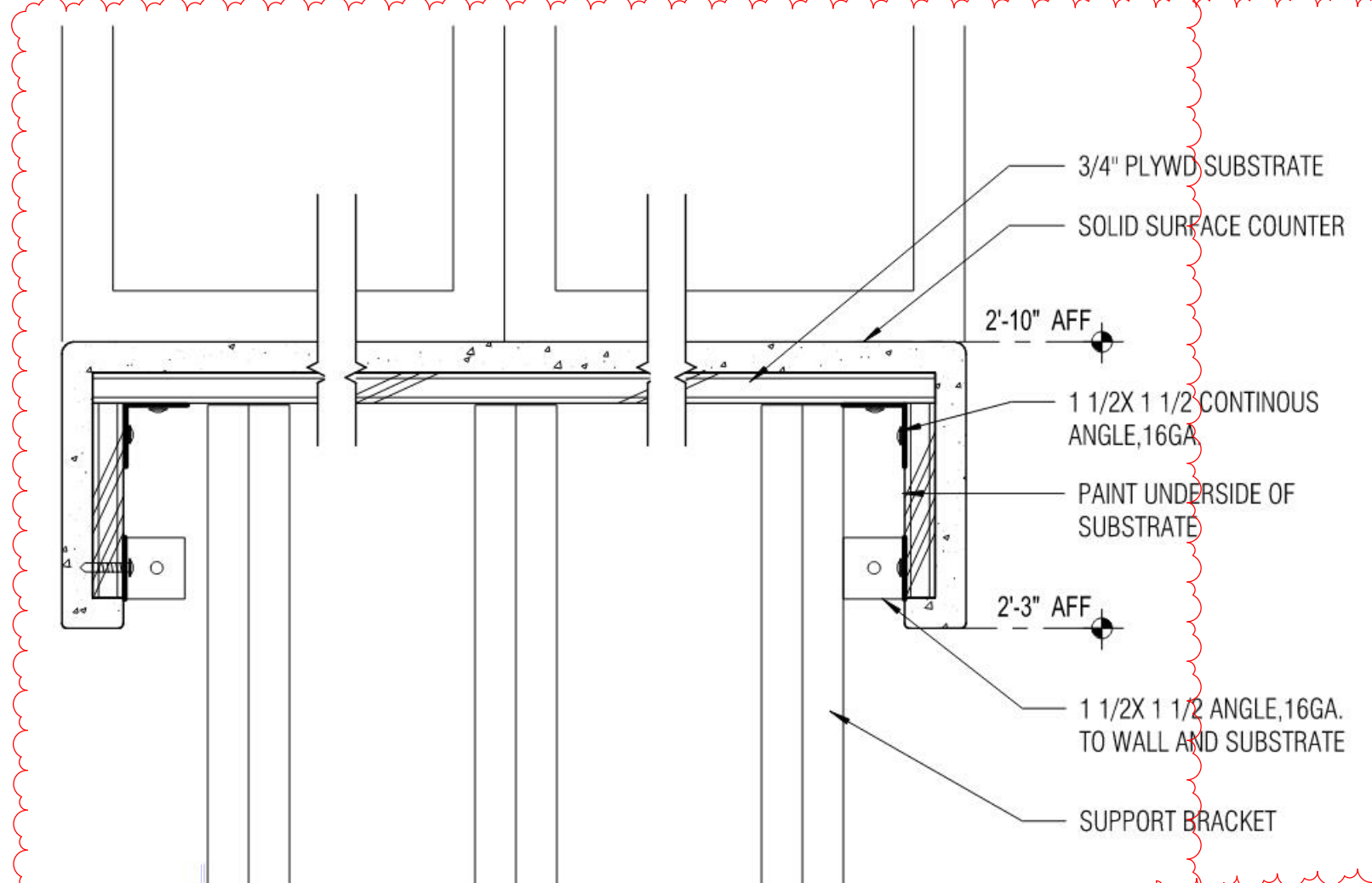
4 INTERIOR GLAZING SYSTEM DOOR HEAD @ TRANSOM
A8.51.2 3' = 1'-0"



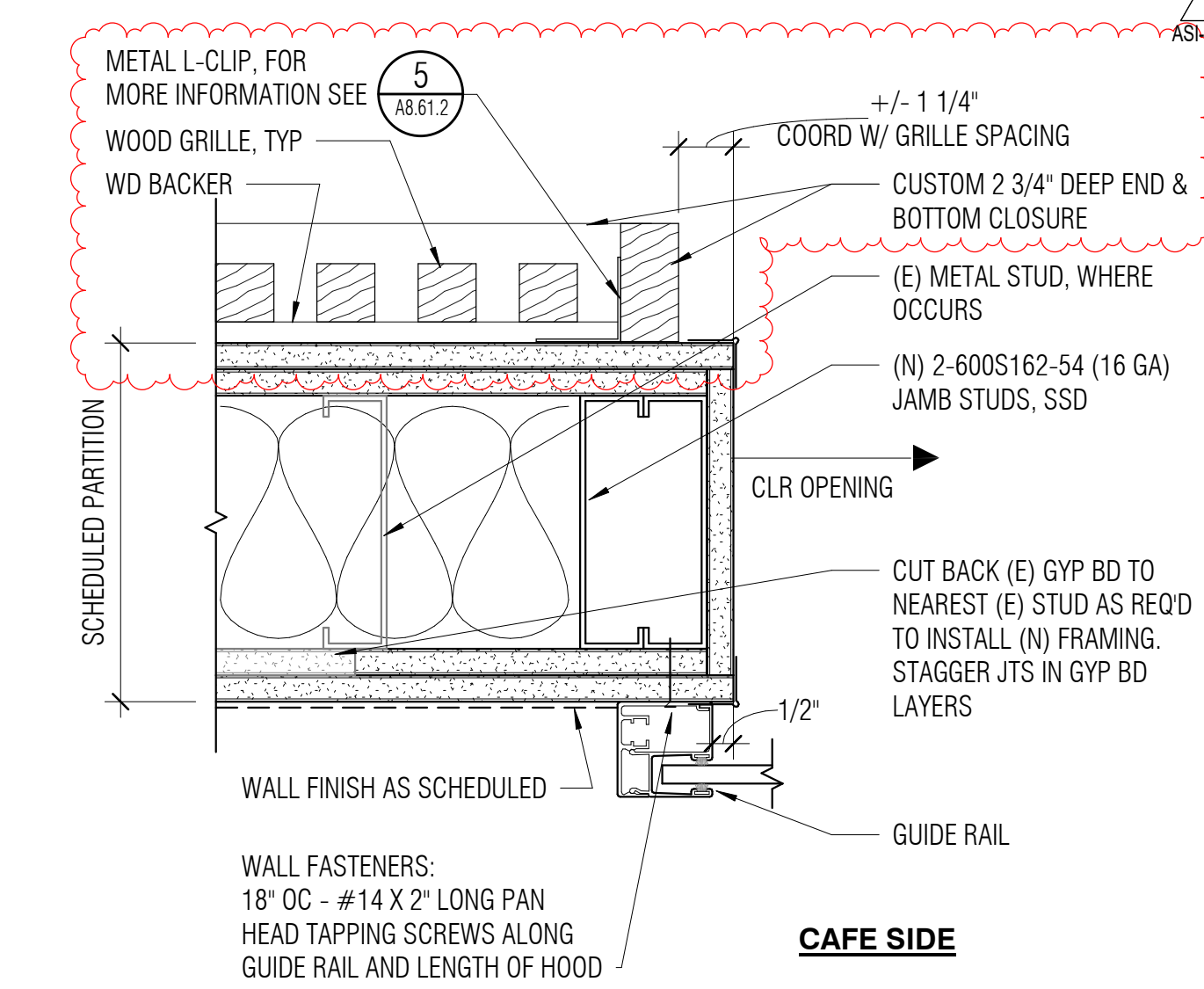
5 INTERIOR GLAZING JAMB DETAILS
A8.51.2 3' = 1'-0"



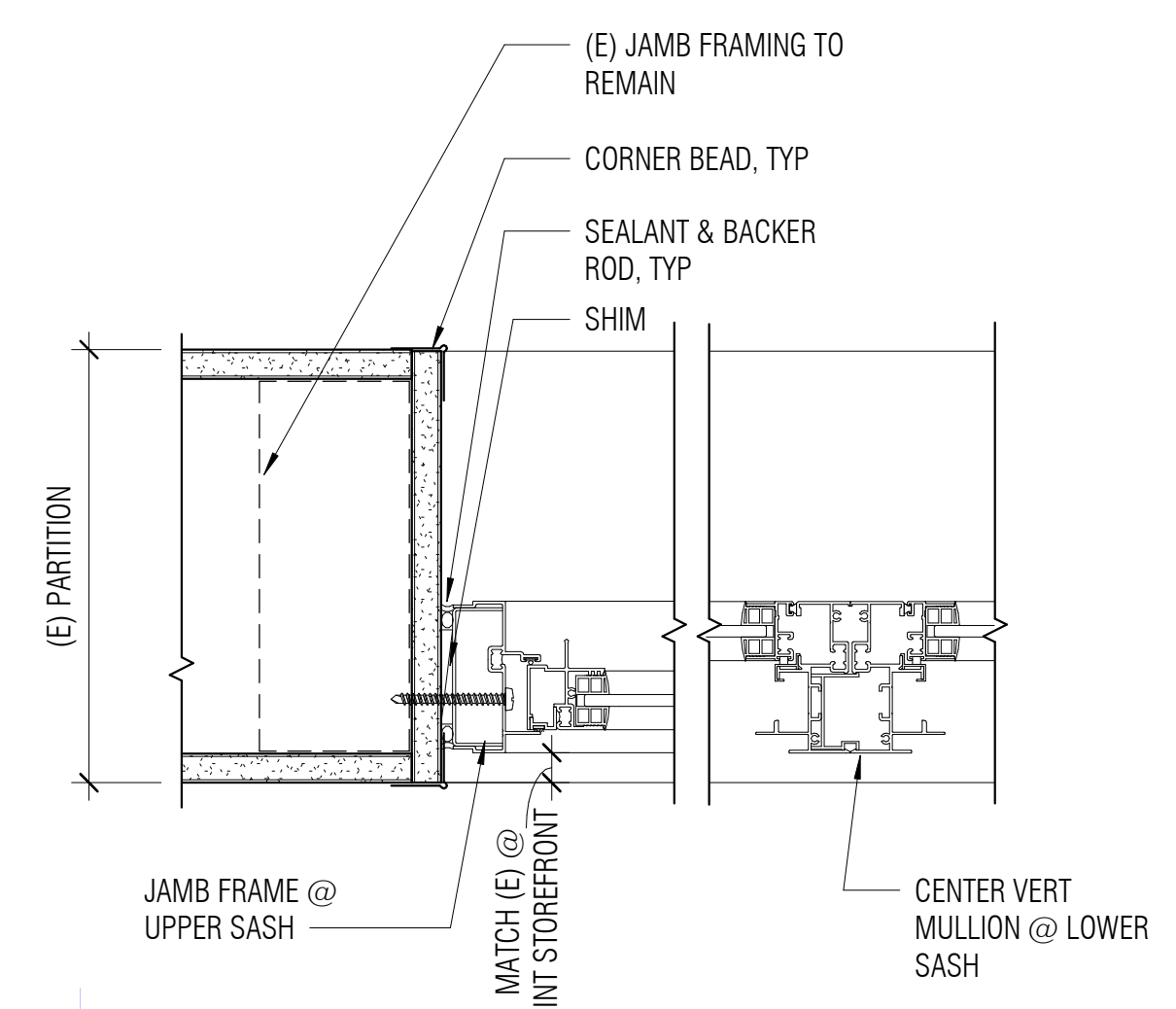
6 HOLLOW METAL DOOR JAMB - HEAD SIM
A8.51.2 3' = 1'-0"



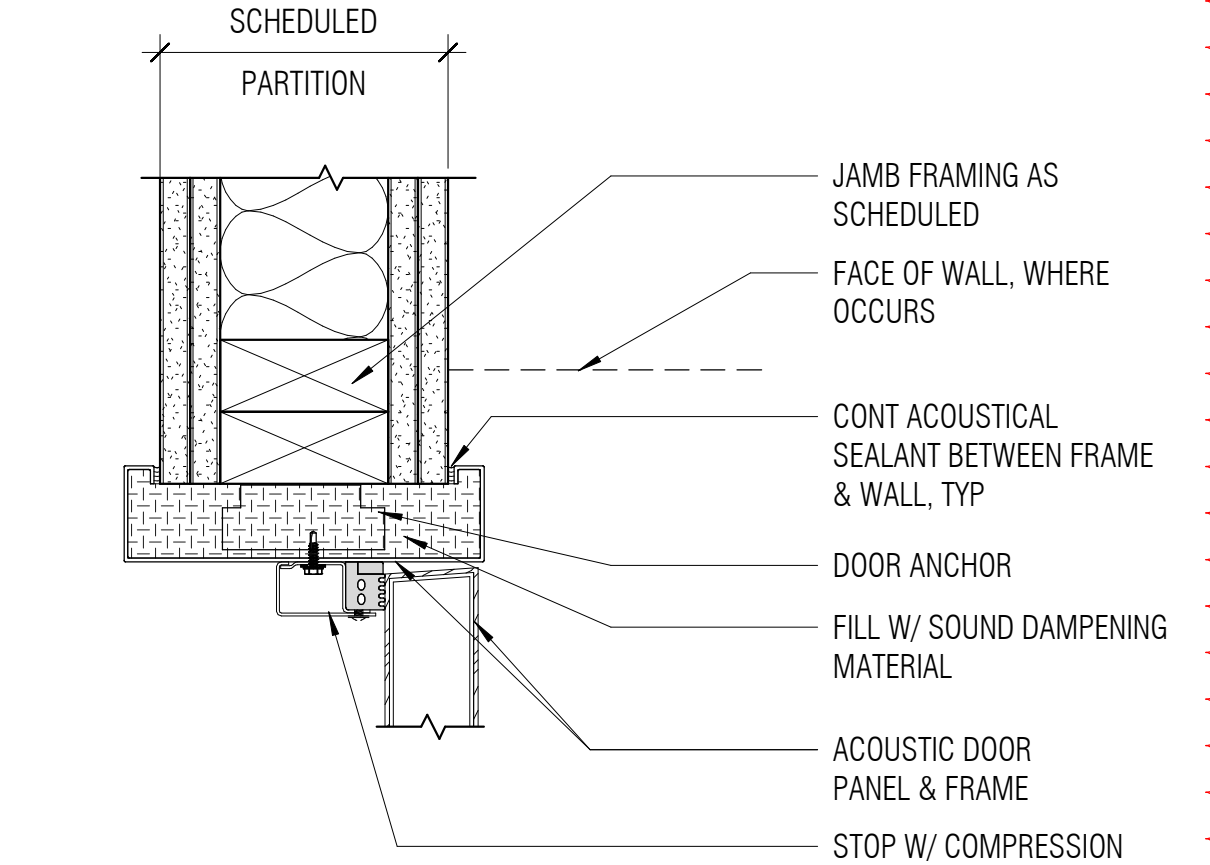
9 COUNTERTOP @ INTERIOR SINGLE HUNG WINDOW
A8.51.2 3' = 1'-0"



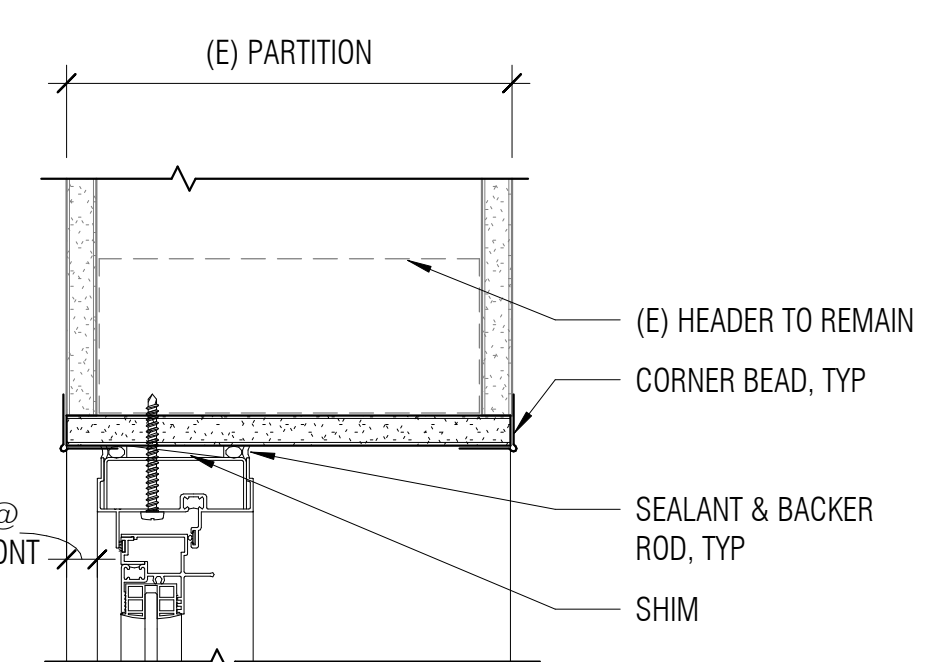
10 JAMB @ COILING DOOR
A8.51.2 3' = 1'-0"



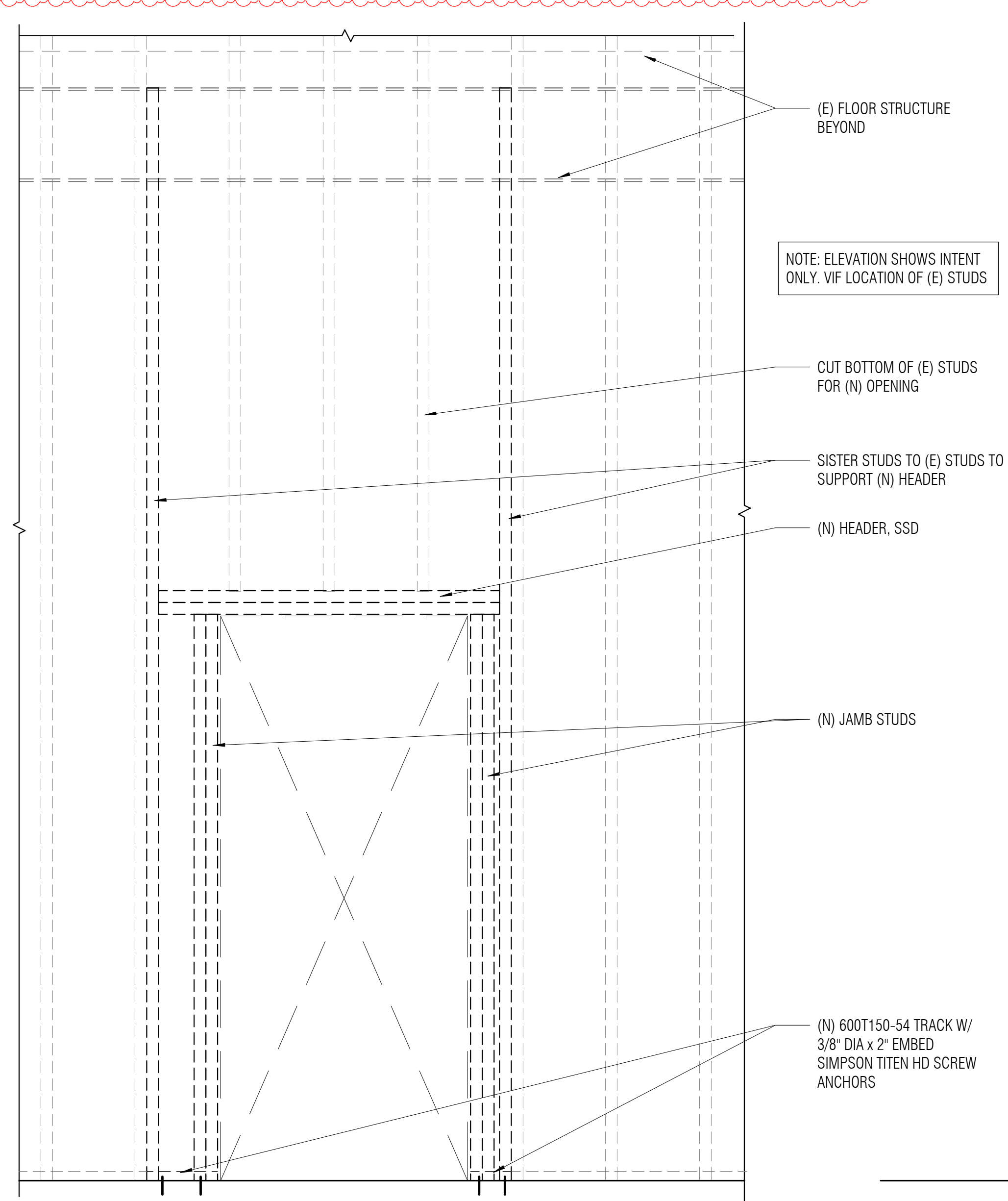
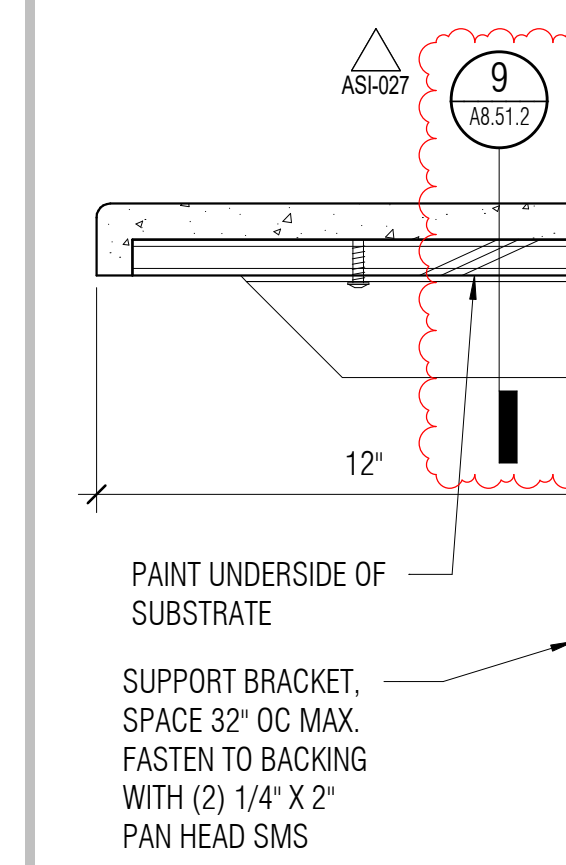
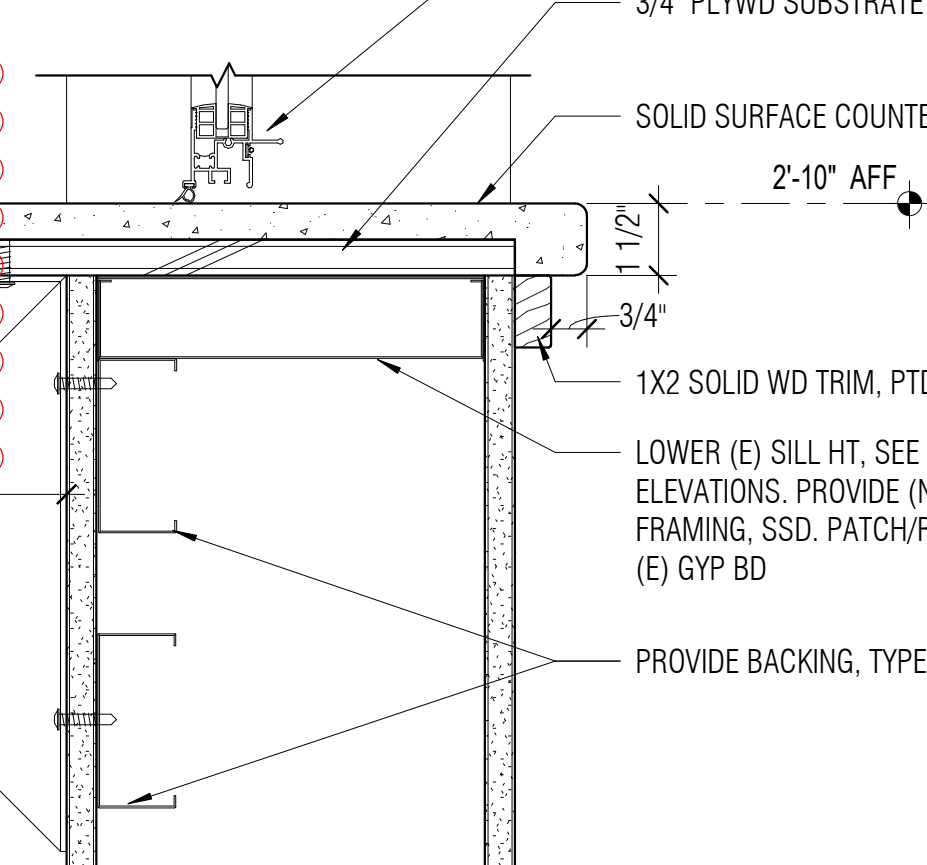
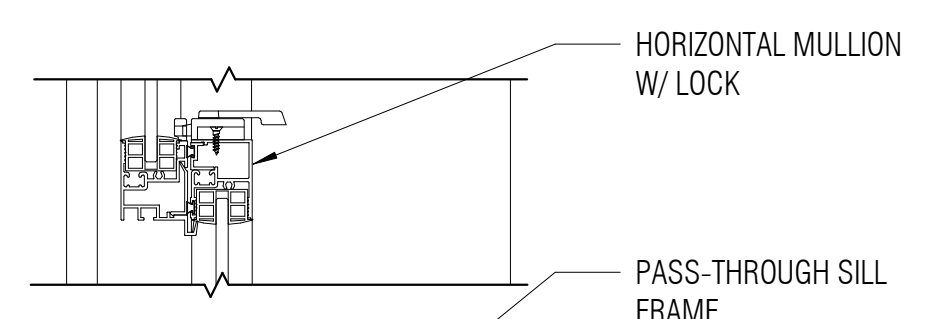
13 JAMB & VERT MULLION @ INT SINGLE HUNG WINDOW
A8.51.2 3' = 1'-0"



14 ACOUSTICAL DOOR JAMB - HEAD SIM
A8.51.2 3' = 1'-0"

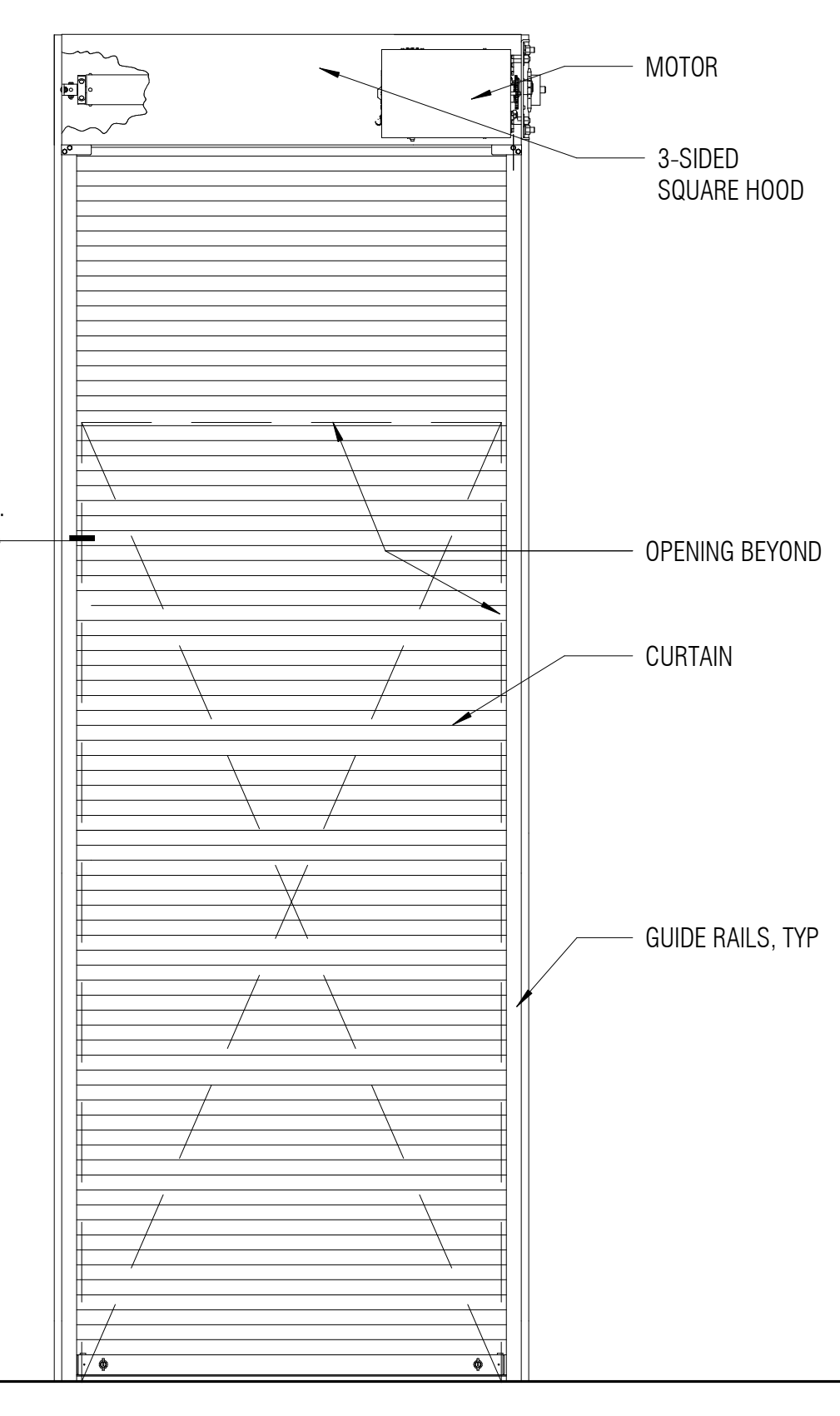


18 SILL & HEAD @ INTERIOR SINGLE HUNG WINDOW
A8.51.2 3' = 1'-0"

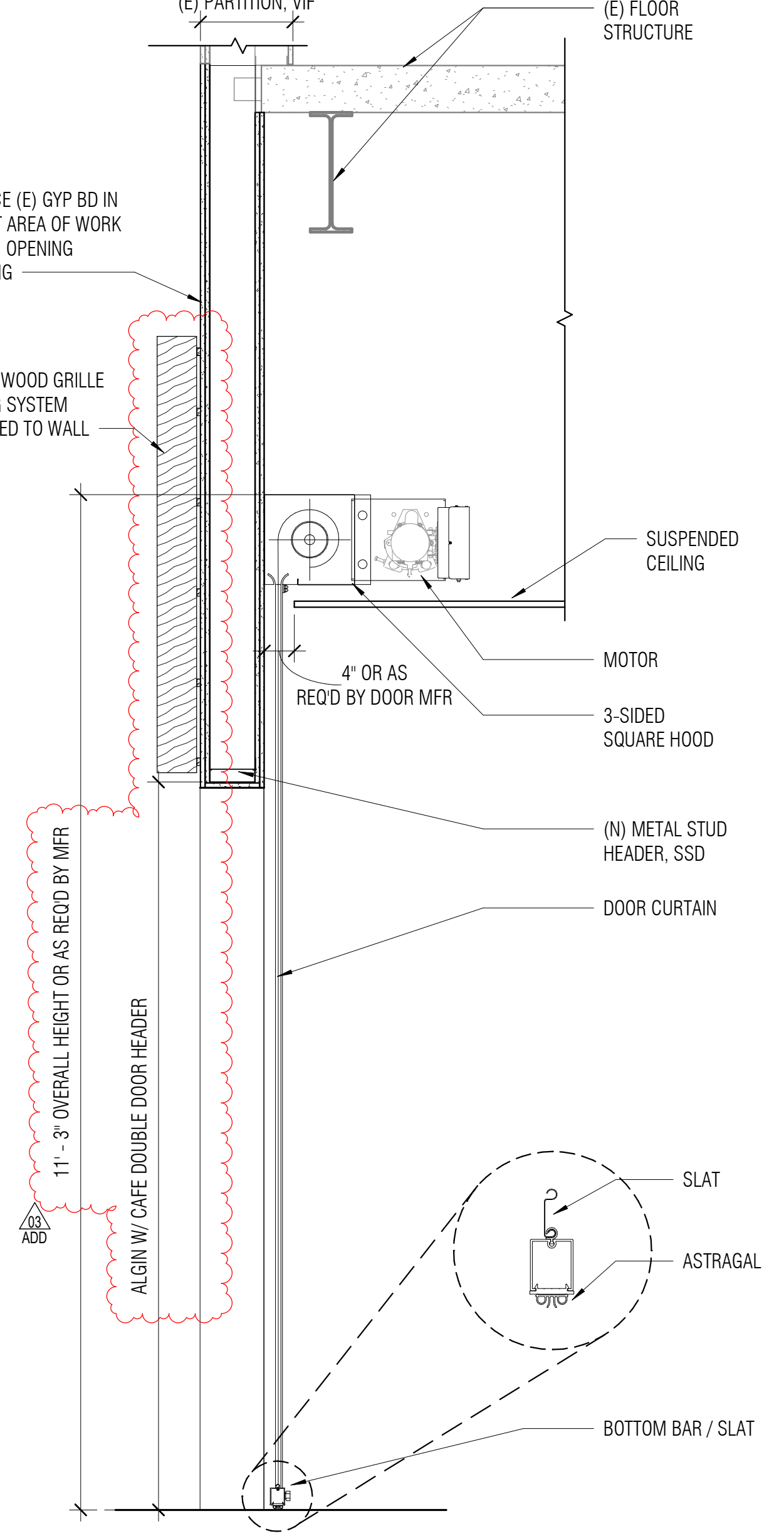


16A FRAMING ELEVATION

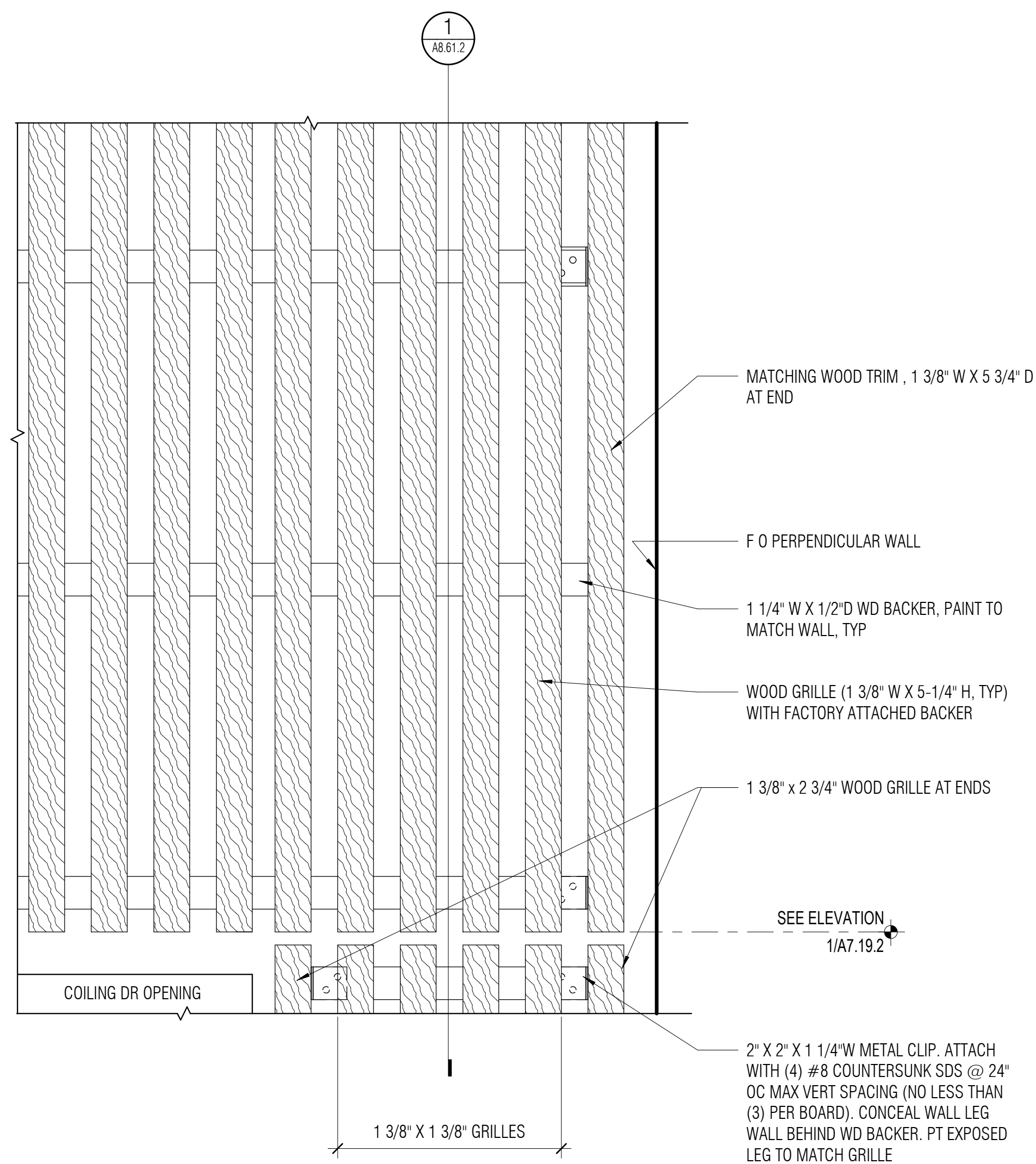
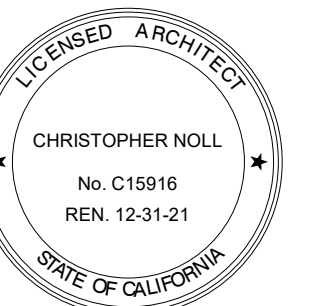
16 FACE MOUNTED COILING DOOR
A8.51.2 3/4\"/>



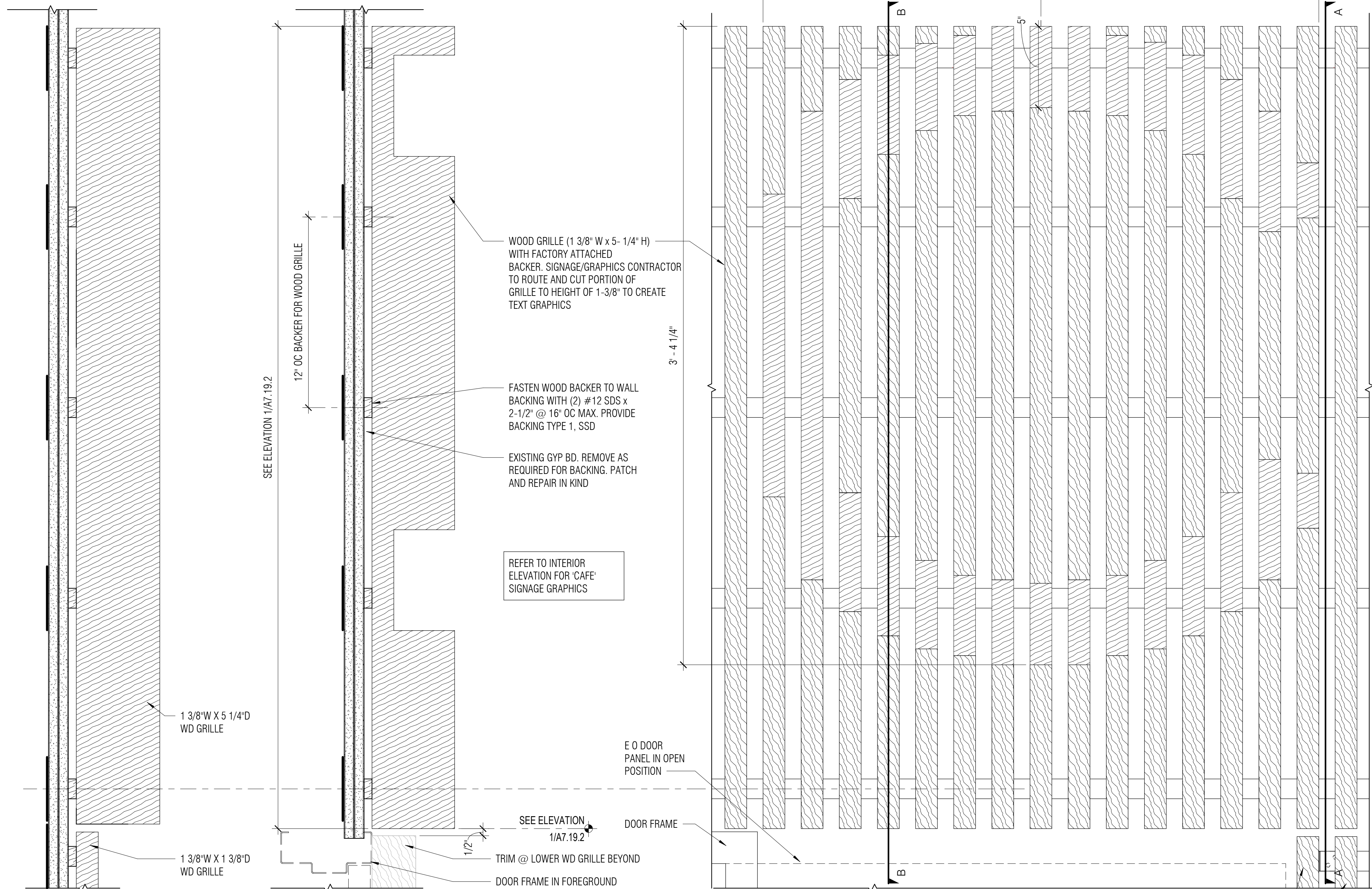
16B DOOR ELEVATION (CAFE SIDE)



16C SECTION @ DOOR

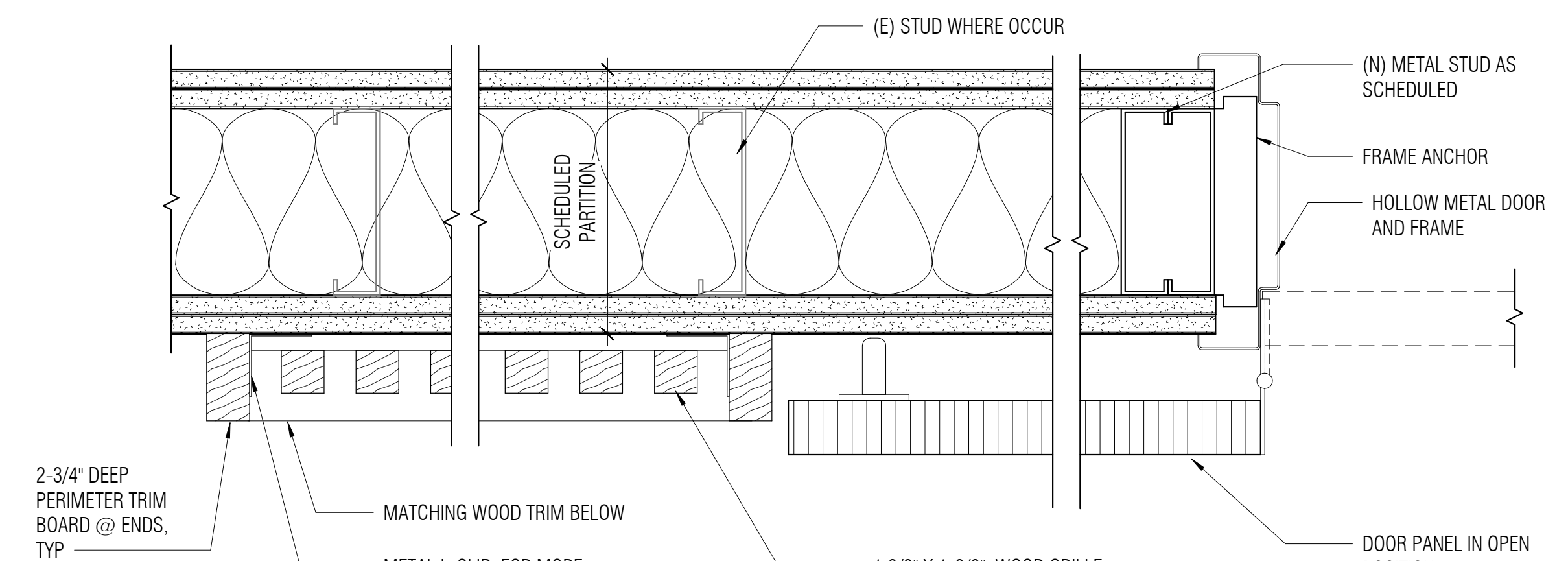


5
A8.61.2
WOOD GRILLE - PANEL WALL MOUNTED - CAFE ENTRY
3" = 1'-0"

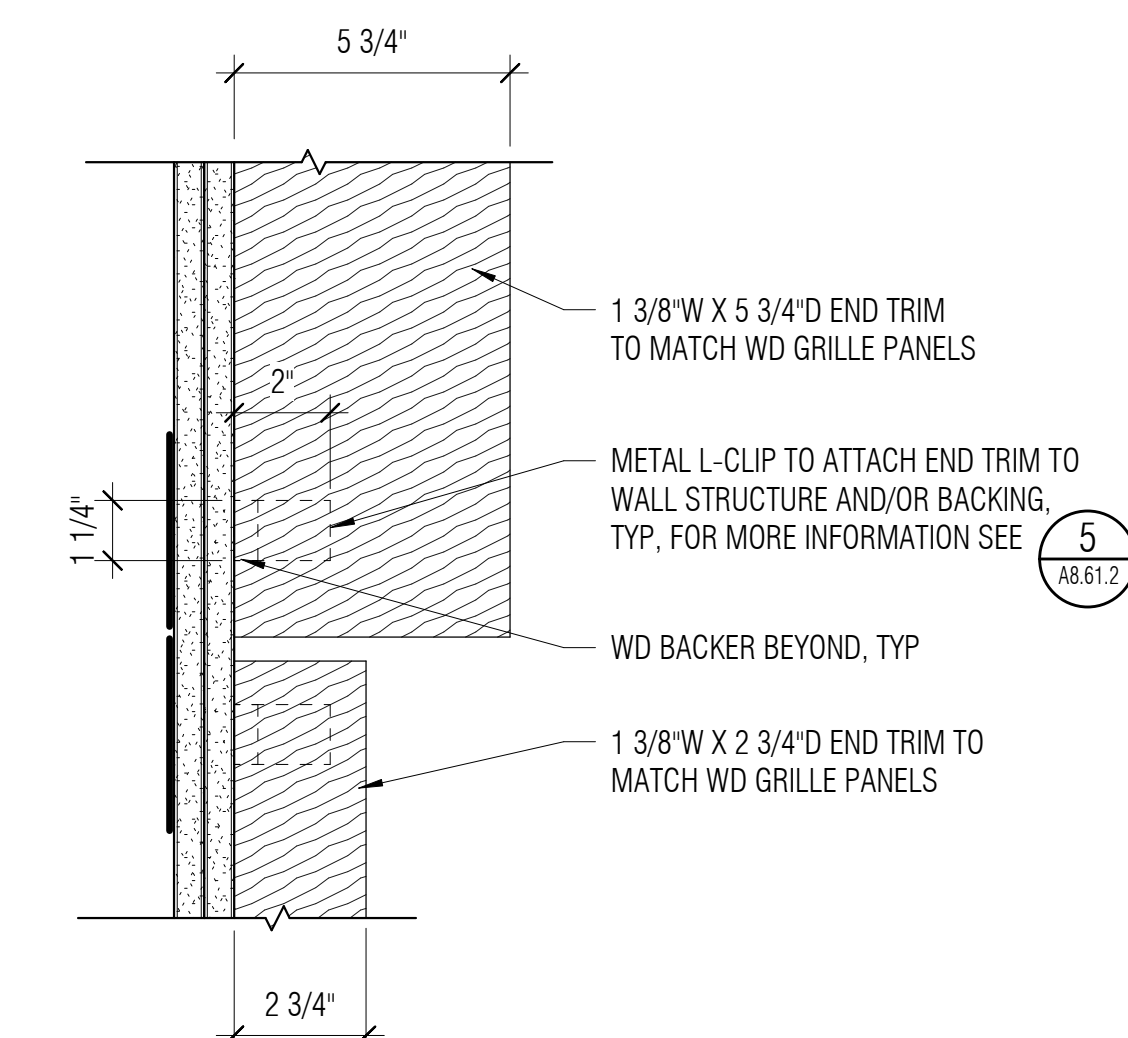


A **TYP SECTION** B **SECTION @ LETTER** C **ELEVATION VIEW**

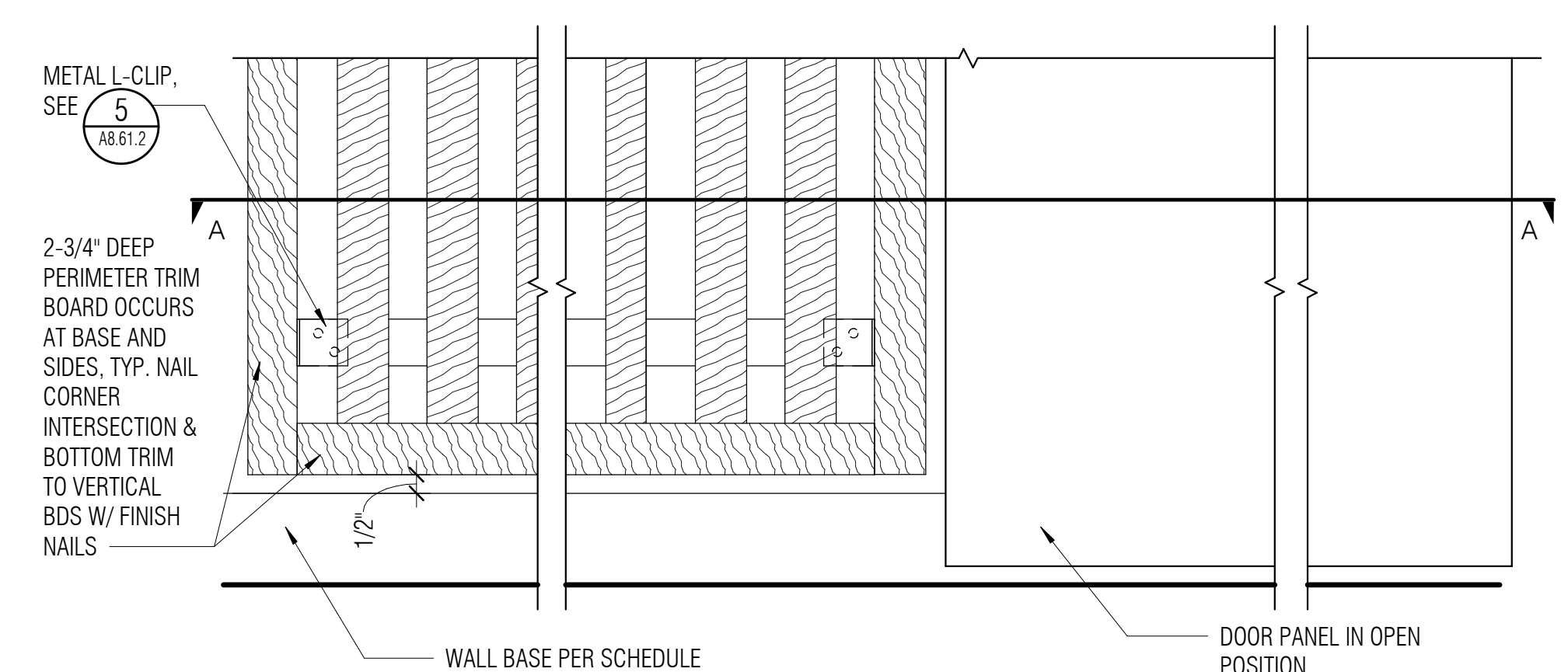
1
A8.61.2
WOOD GRILLE PANEL - WALL MOUNTED - CAFE LETTERFORM
3" = 1'-0"



A **PLAN VIEW**

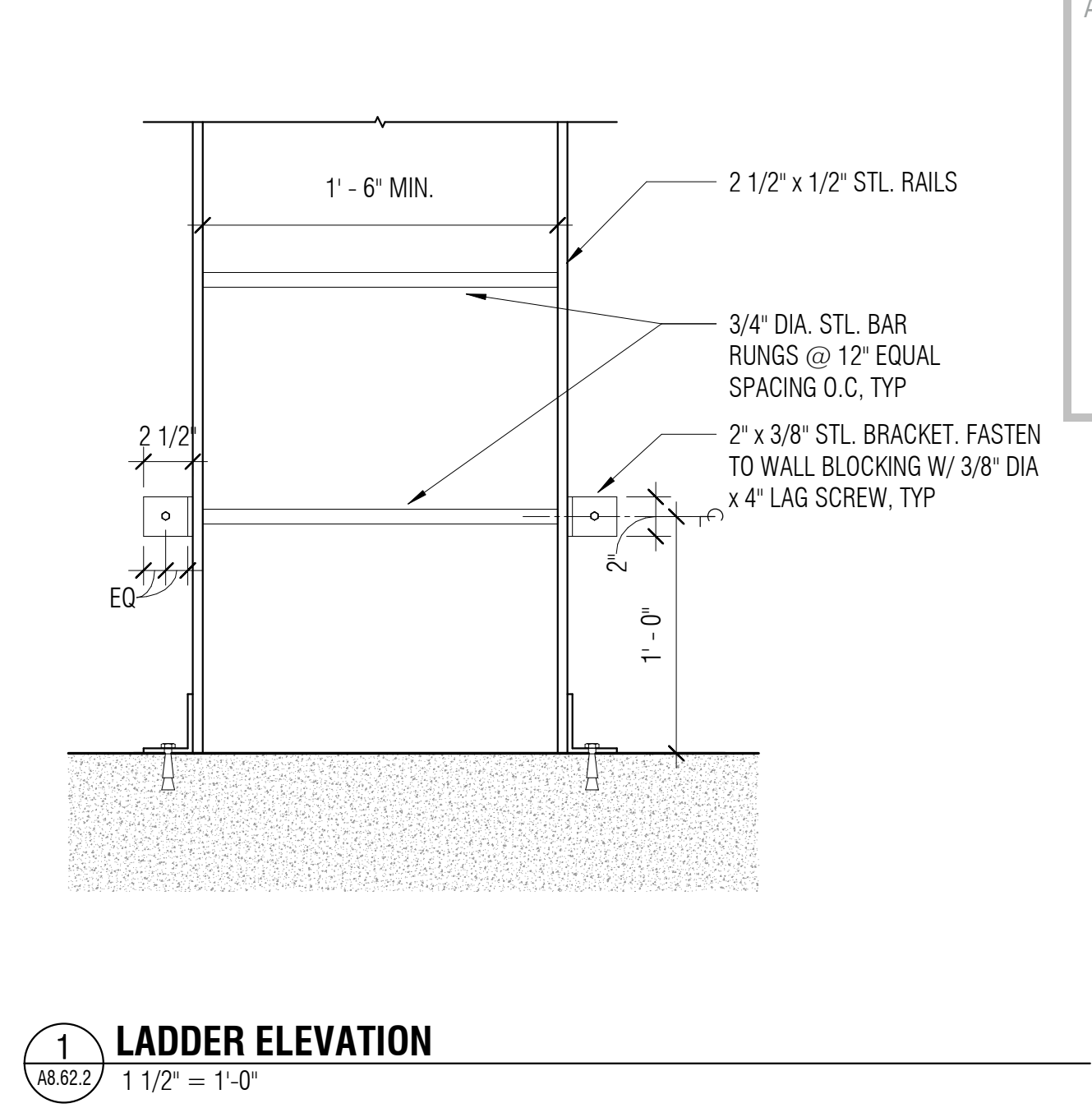
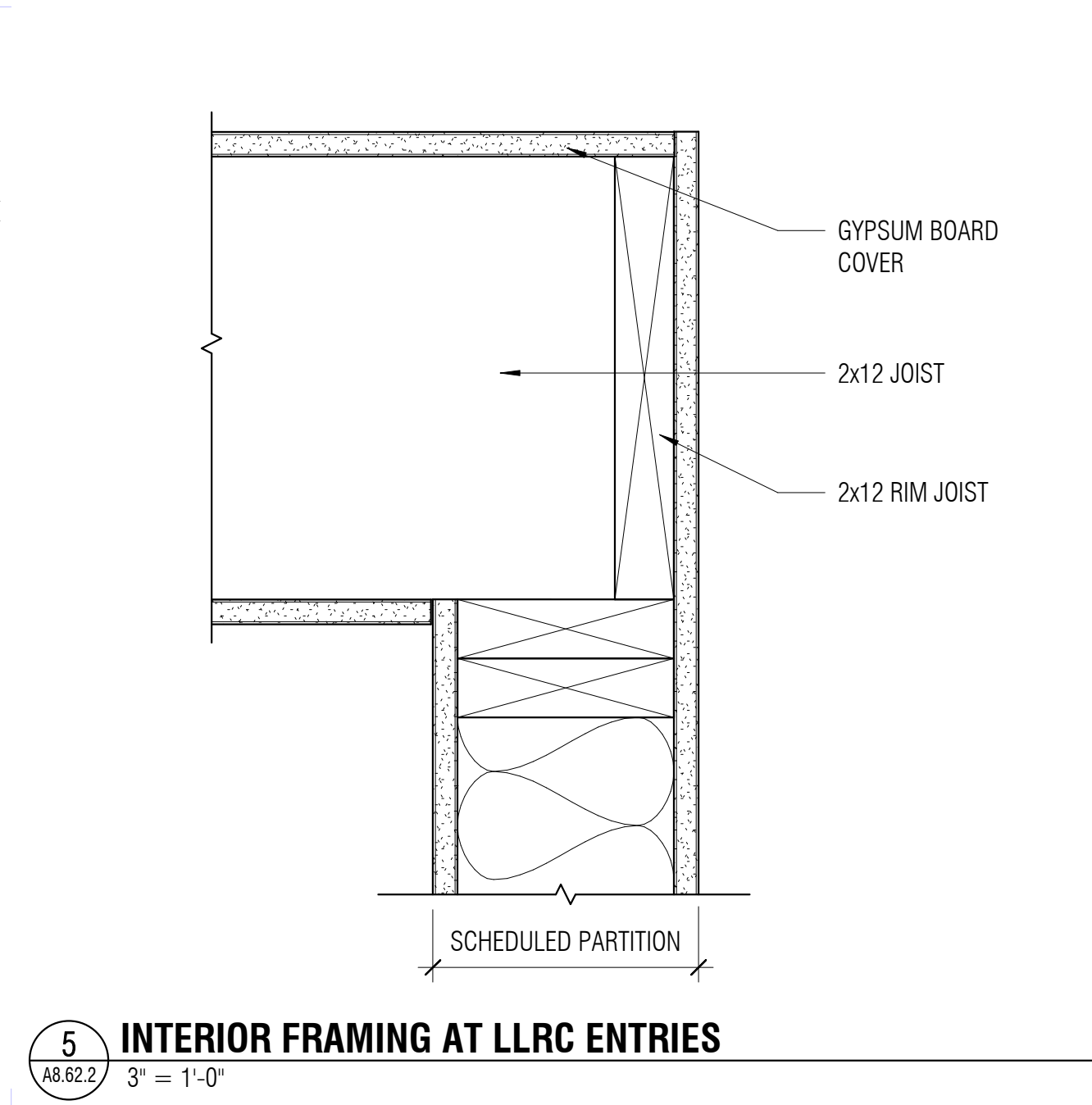
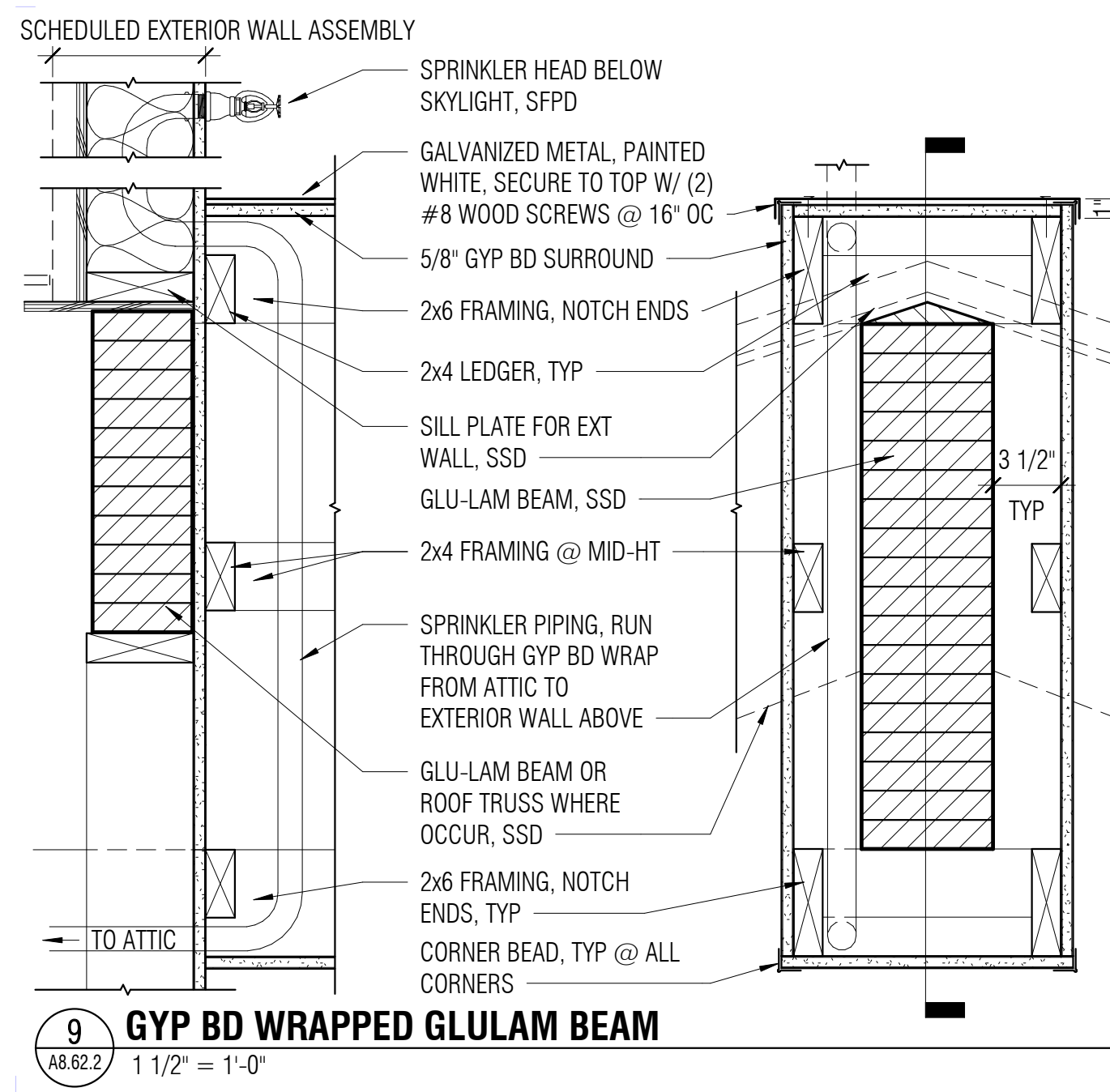
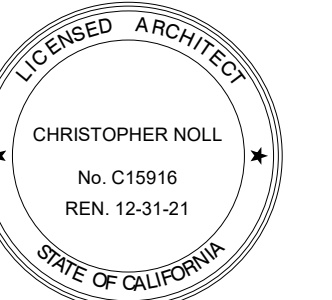


4
A8.61.2
WOOD GRILLE - PANEL WALL MOUNTED - END TRIM
3" = 1'-0"

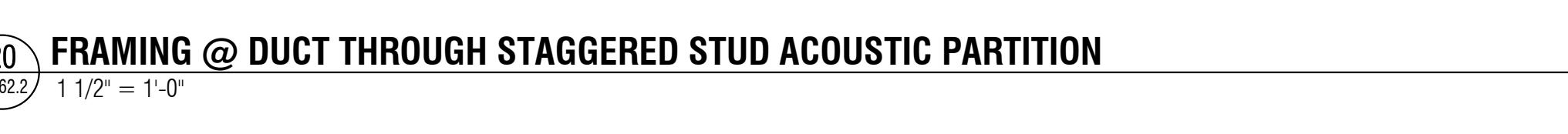
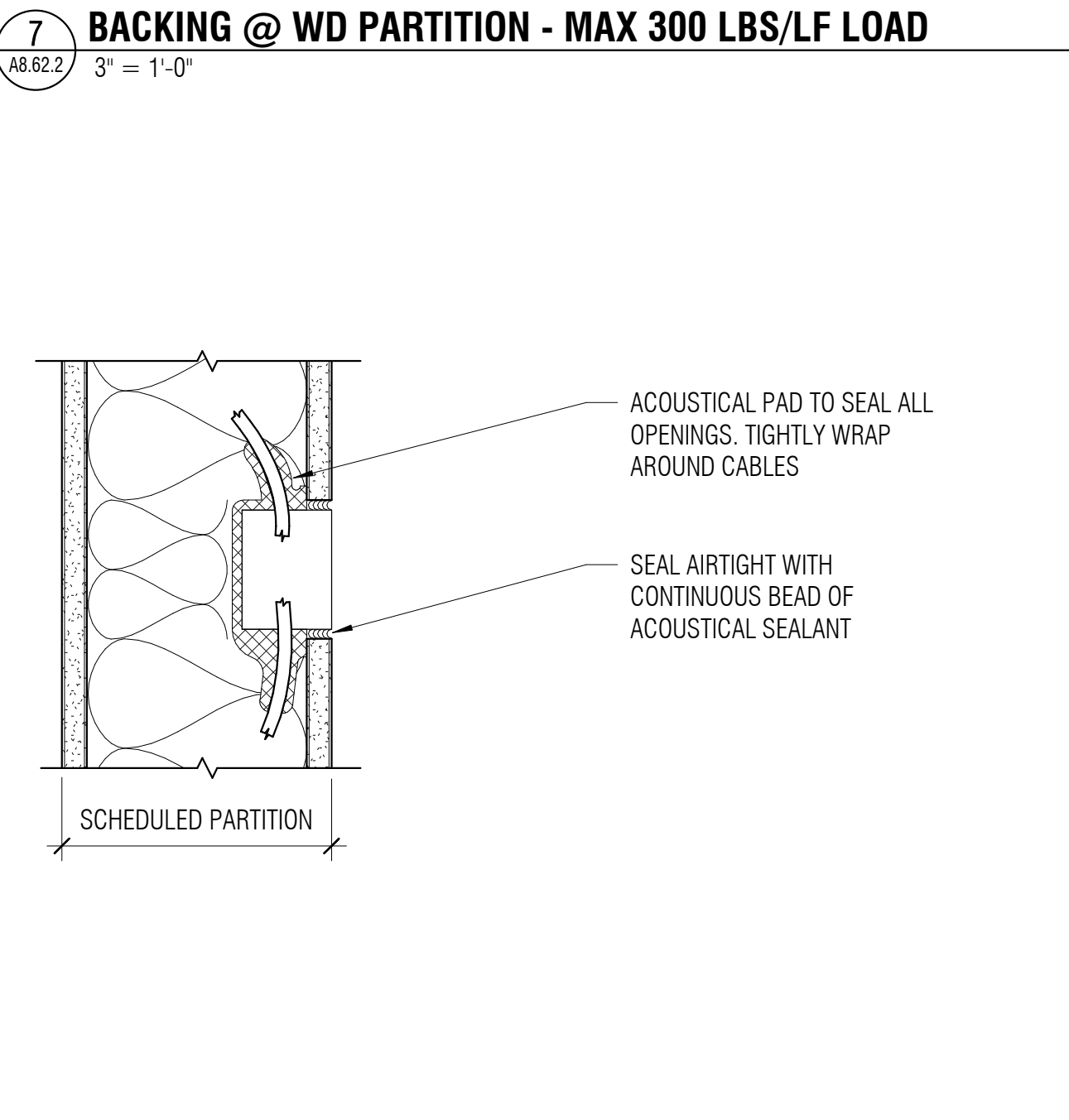
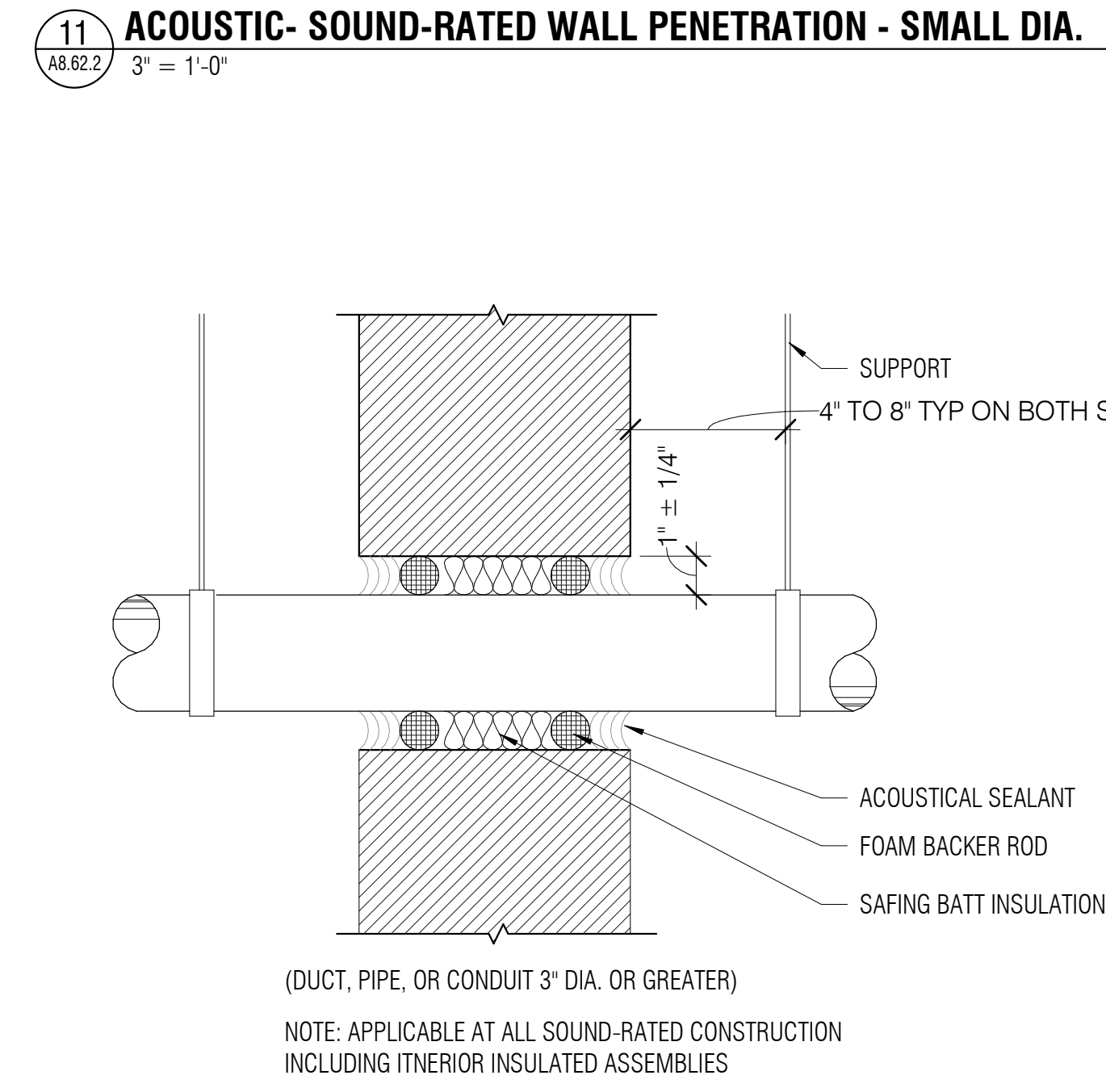
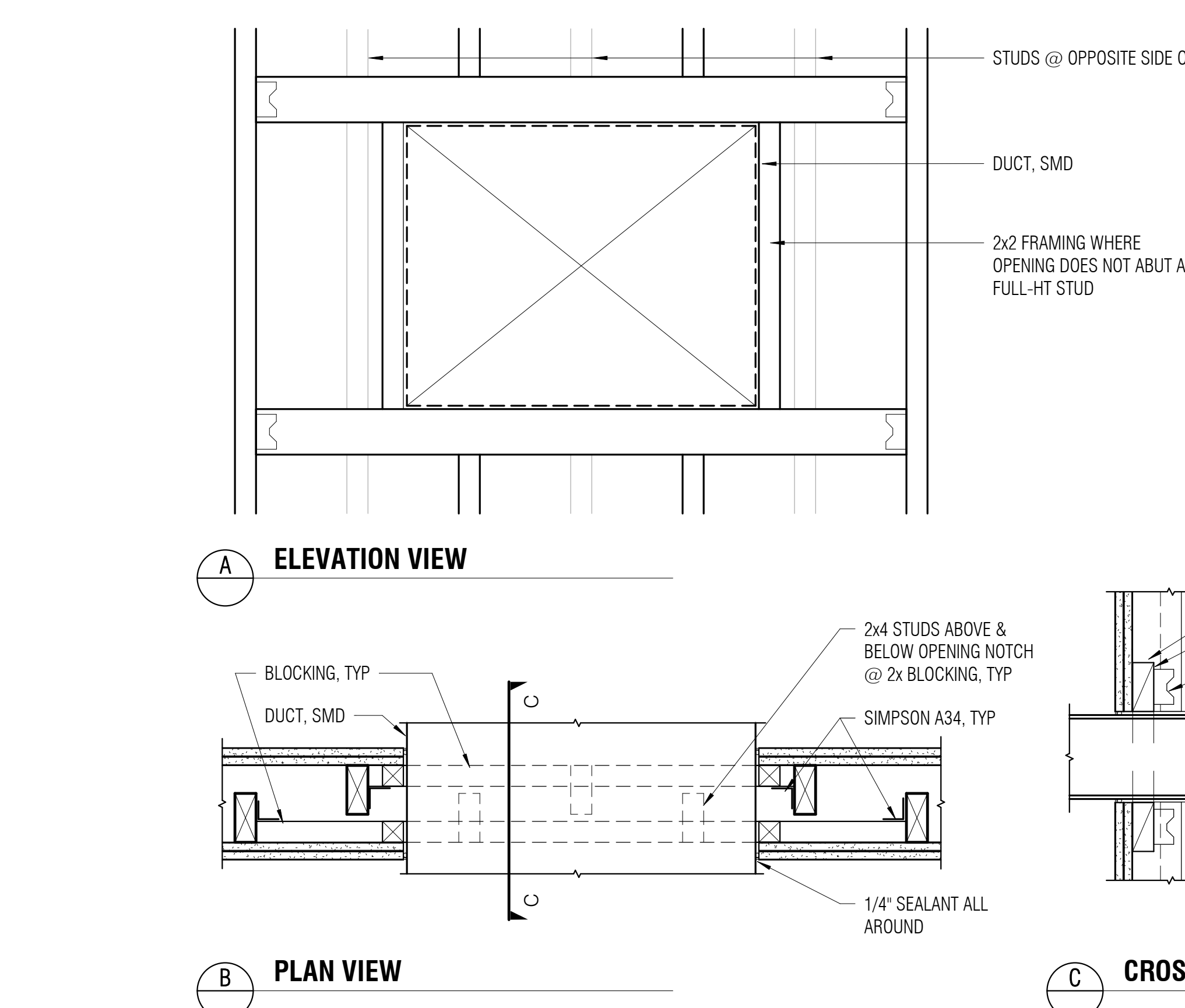
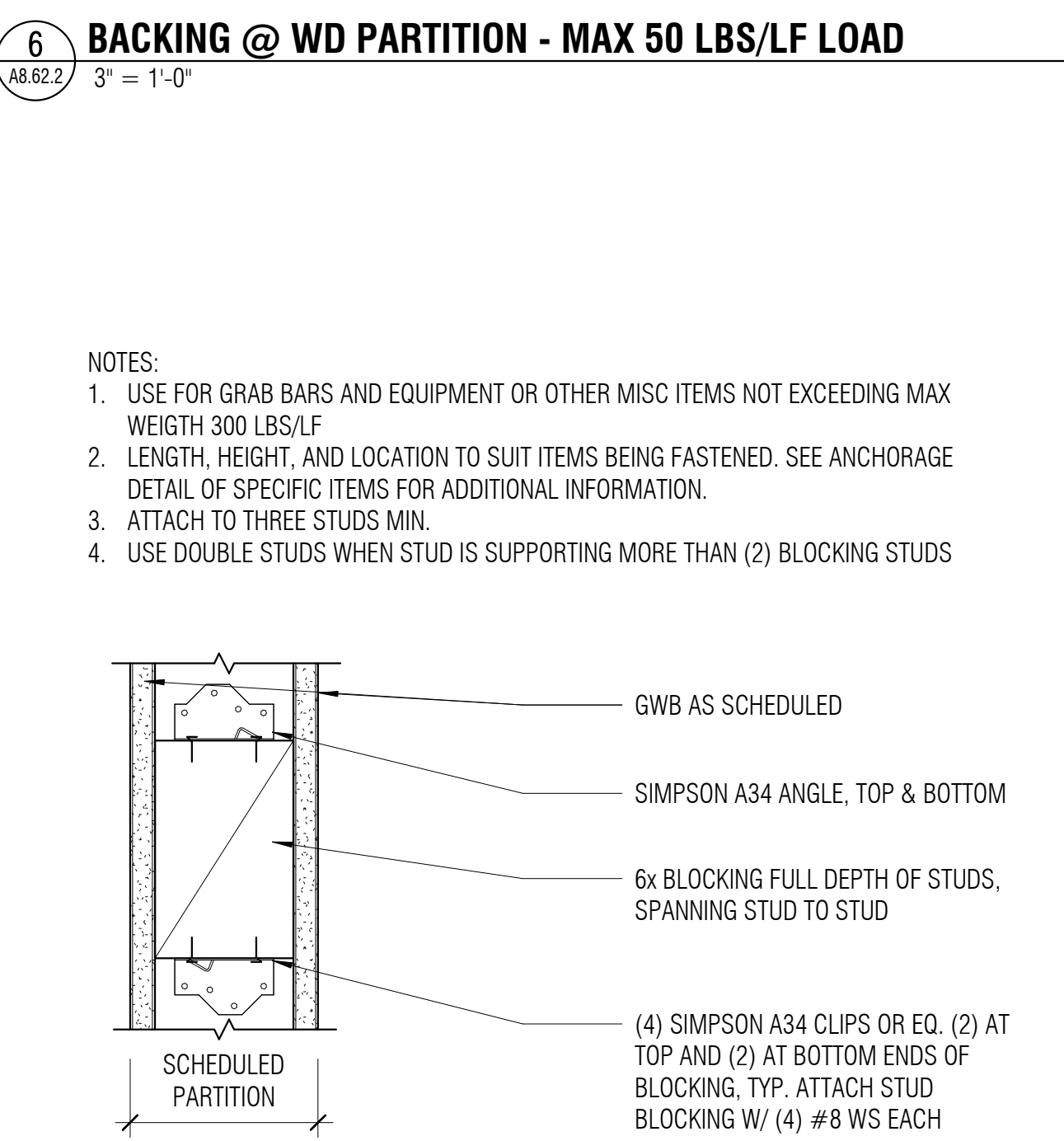
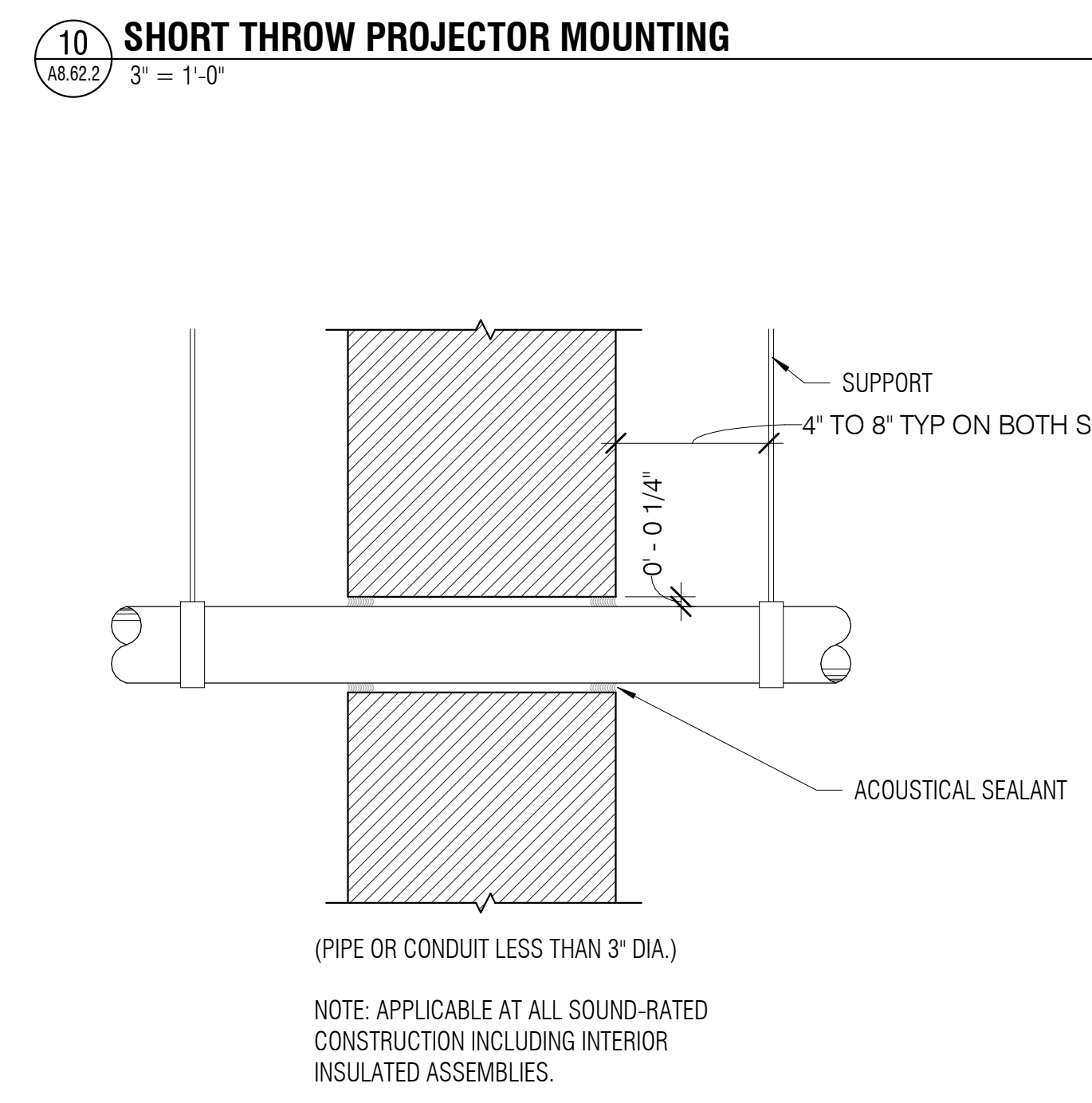
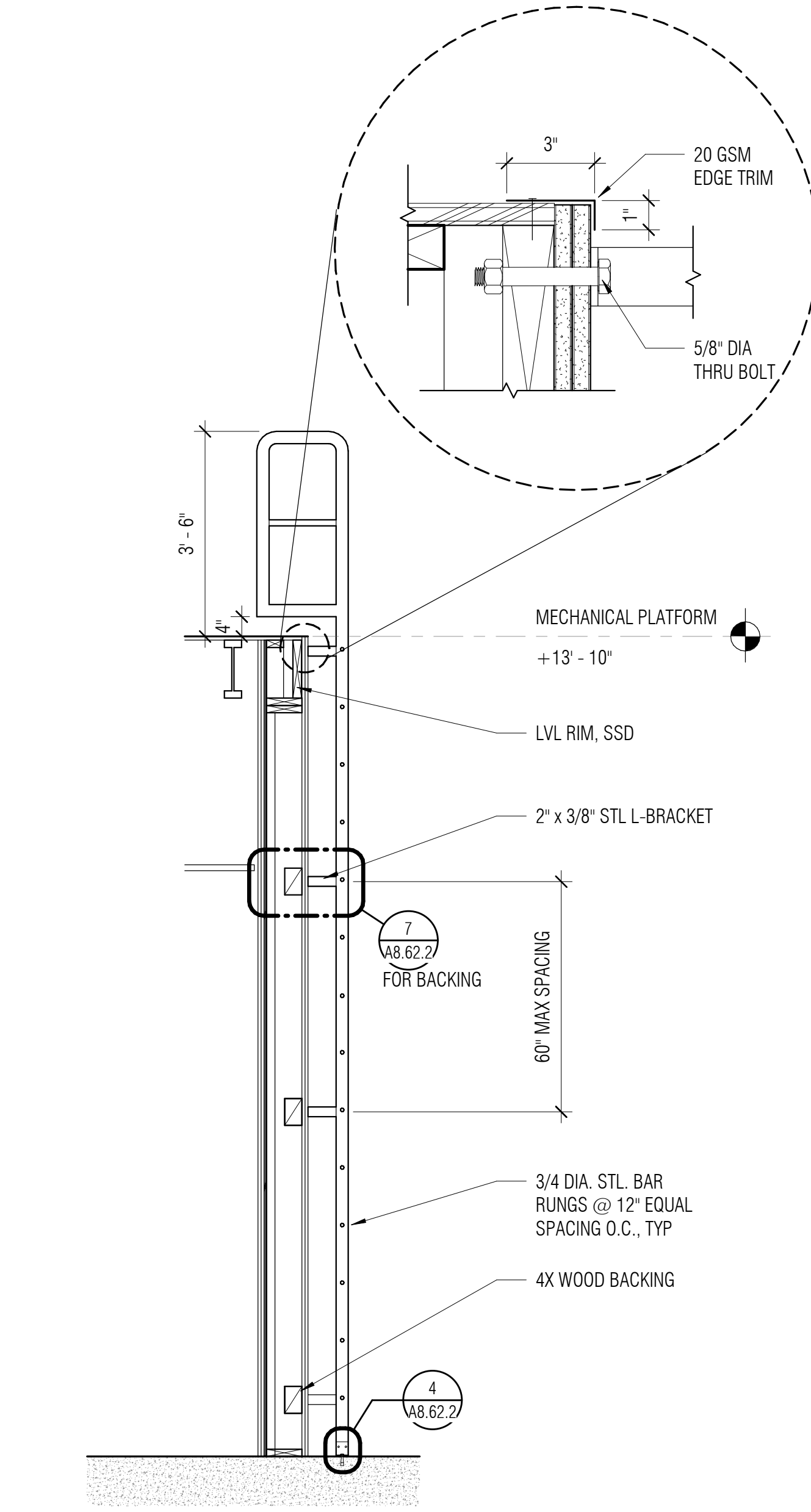
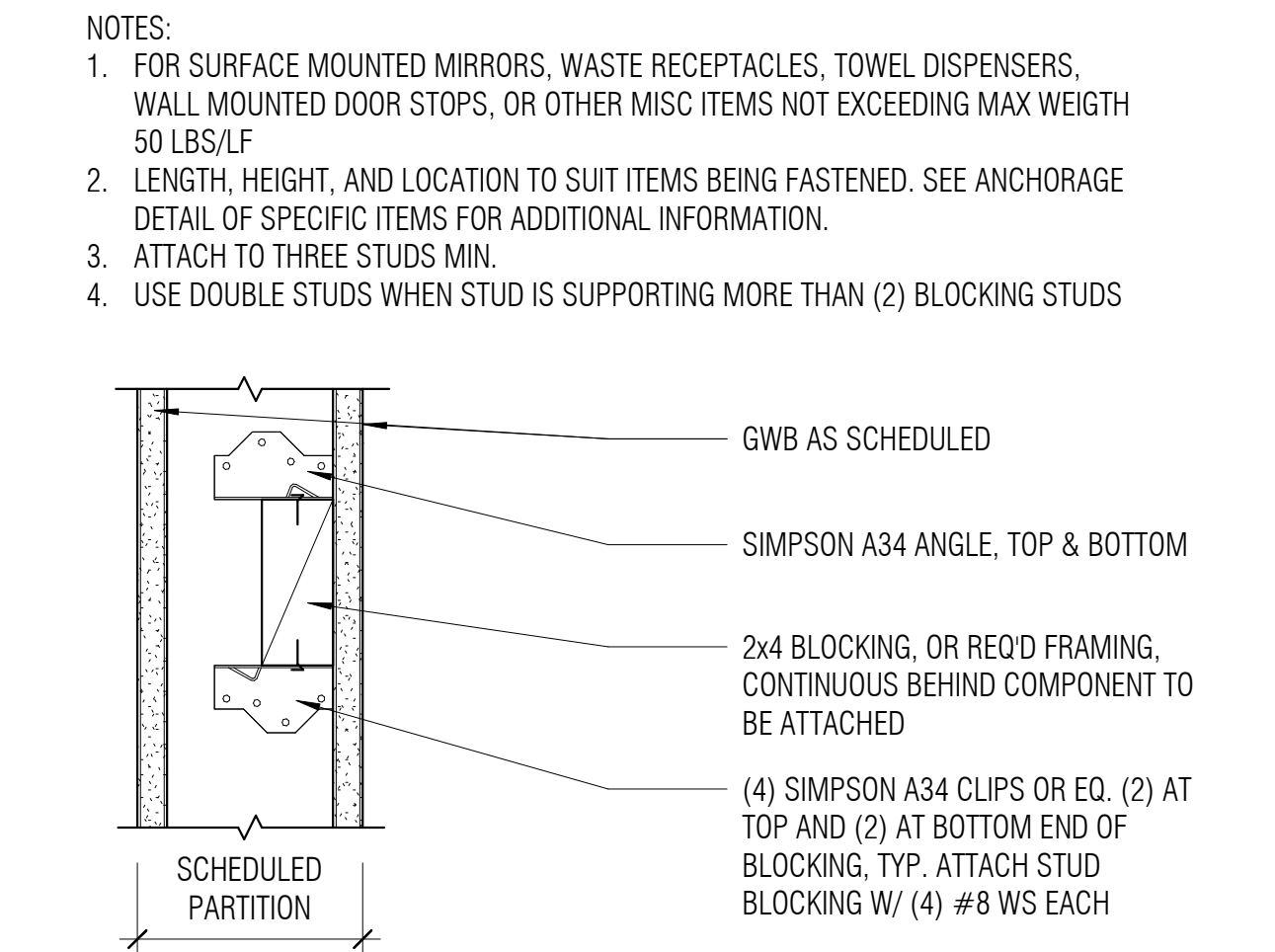
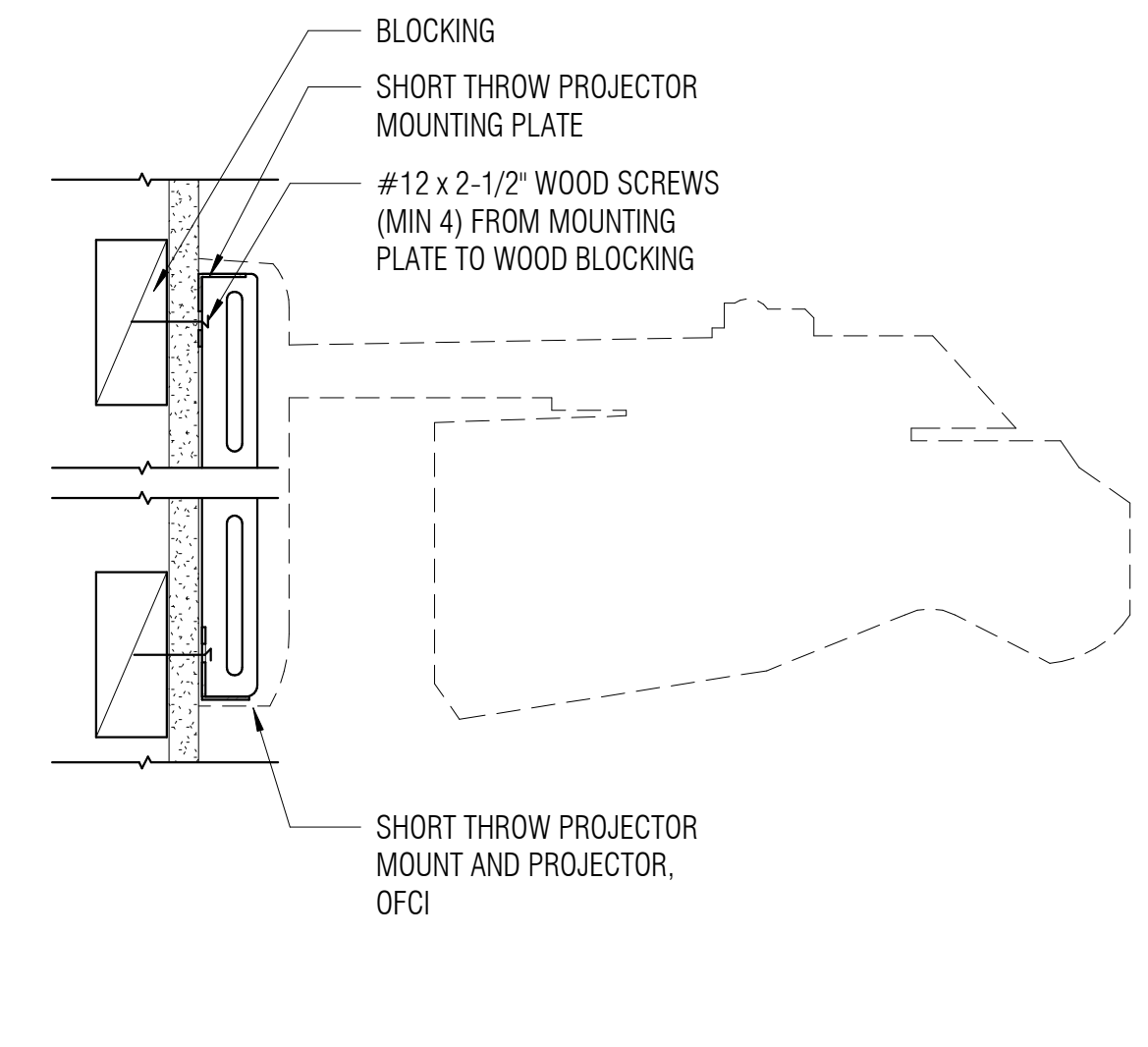
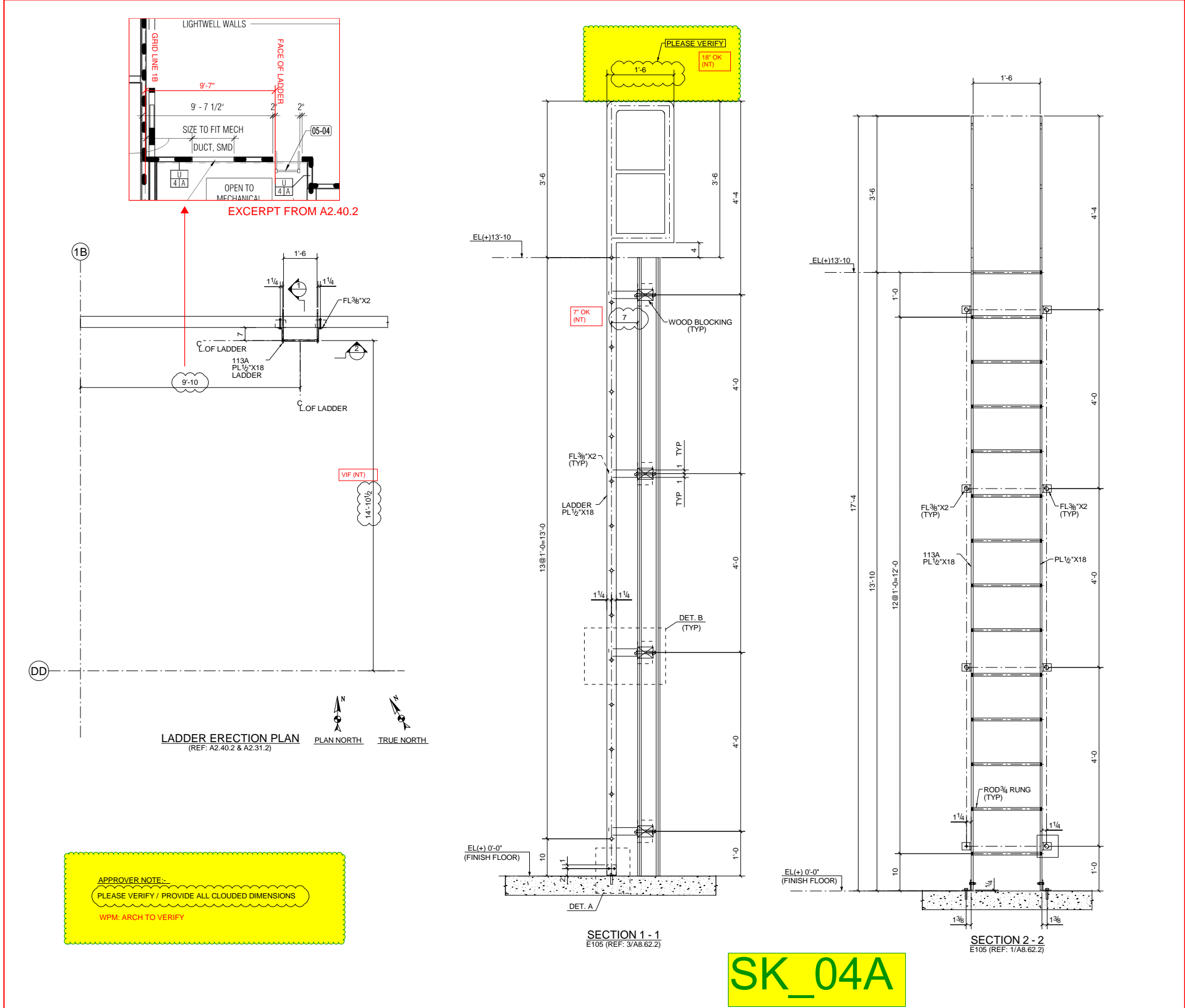


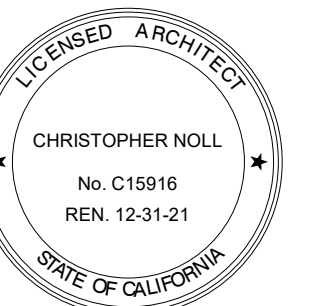
B **ELEVATION VIEW**

2
A8.61.2
WOOD GRILLE PANEL - WALL MOUNTED - DOOR JAMB
3" = 1'-0"



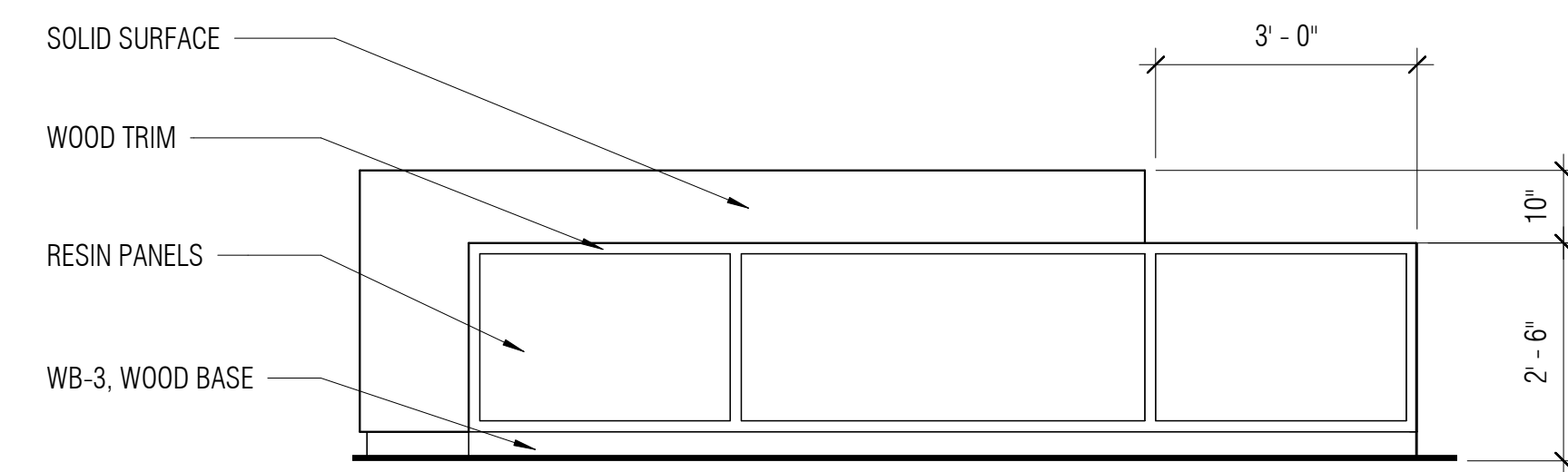
RFI#43 - LADDER
DELTA STEEL CONSTRUCTION INC.
REFER TO RFI#43 FOR ADDITIONAL INFORMATION



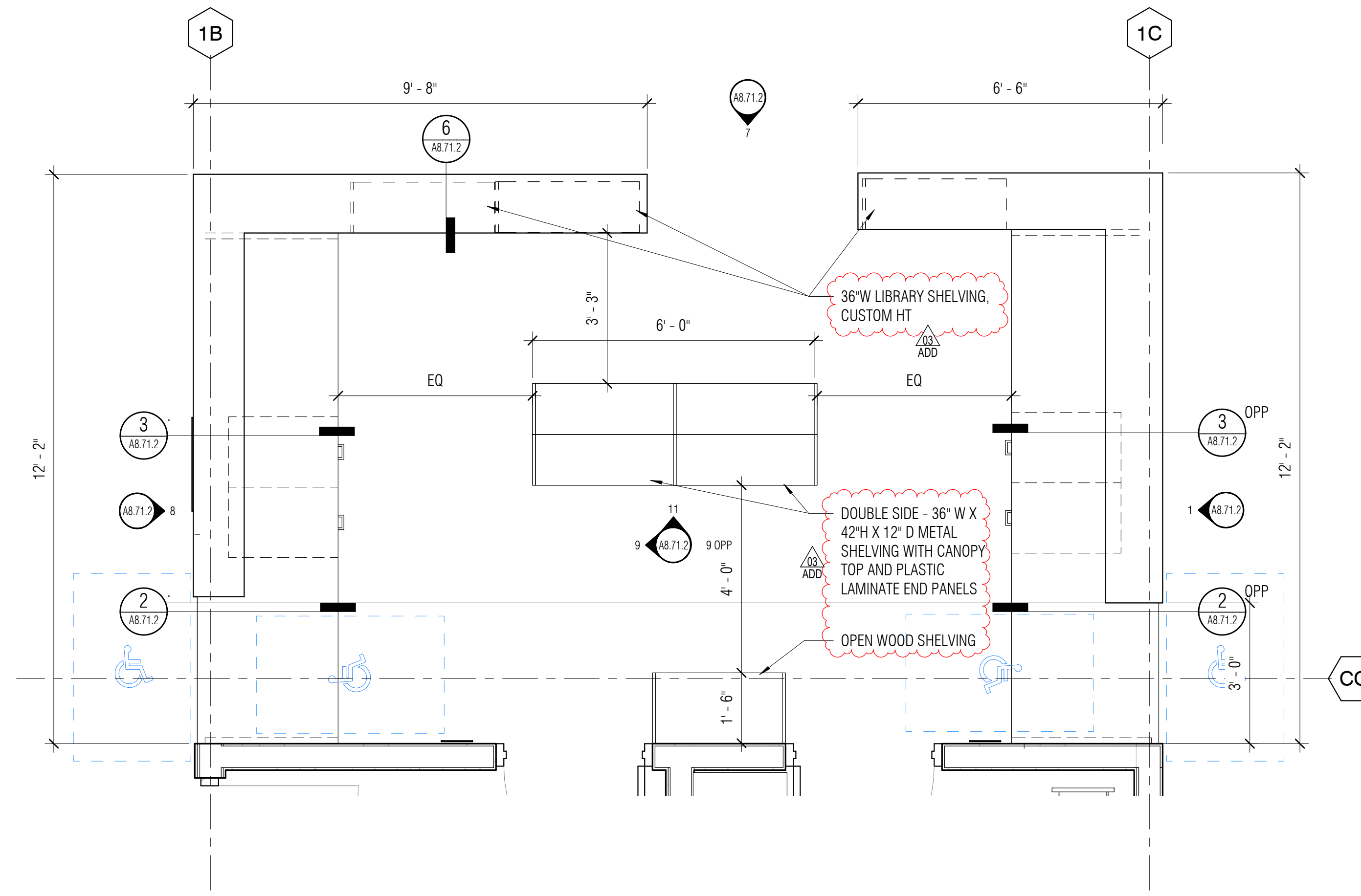


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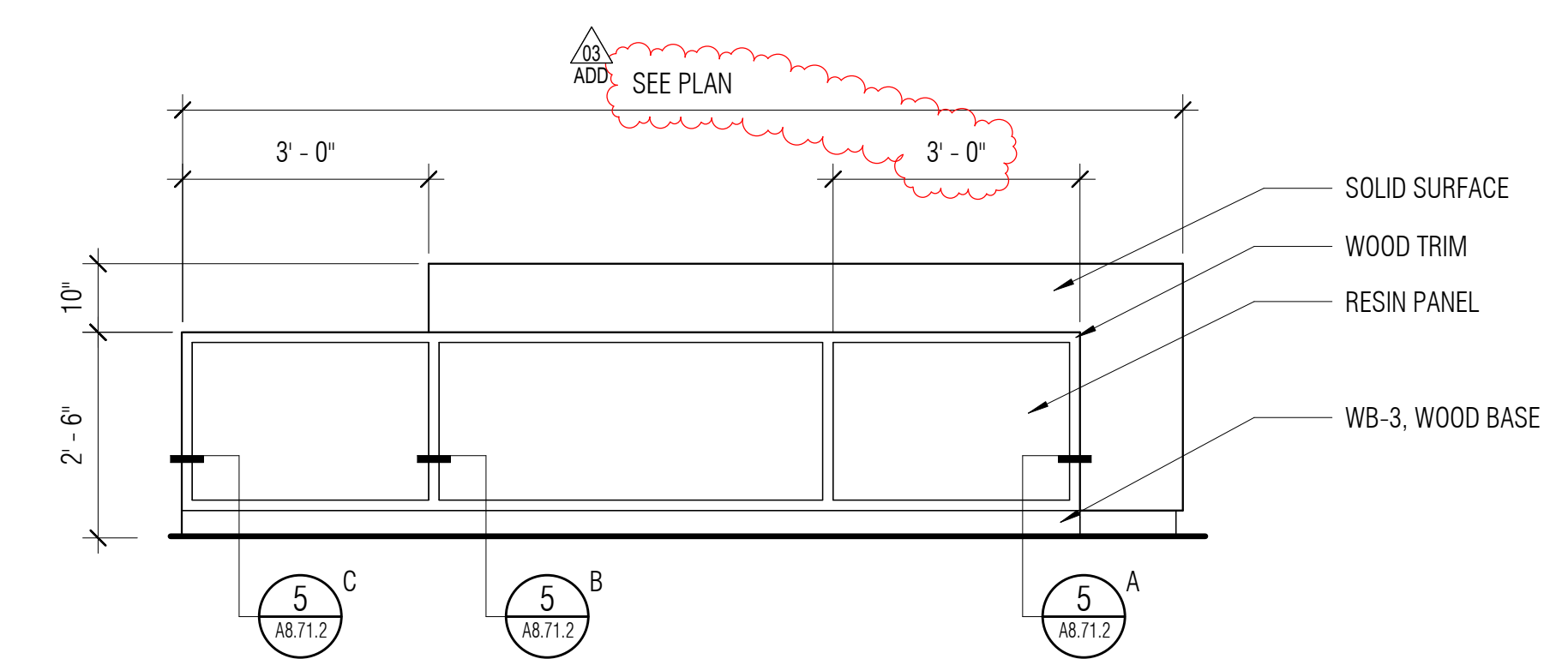
| REVISIONS | DATE | DESCRIPTION |
|-----------|---------|---------------------|
| △ | 8/27/19 | INC 2 - ADDENDUM 03 |



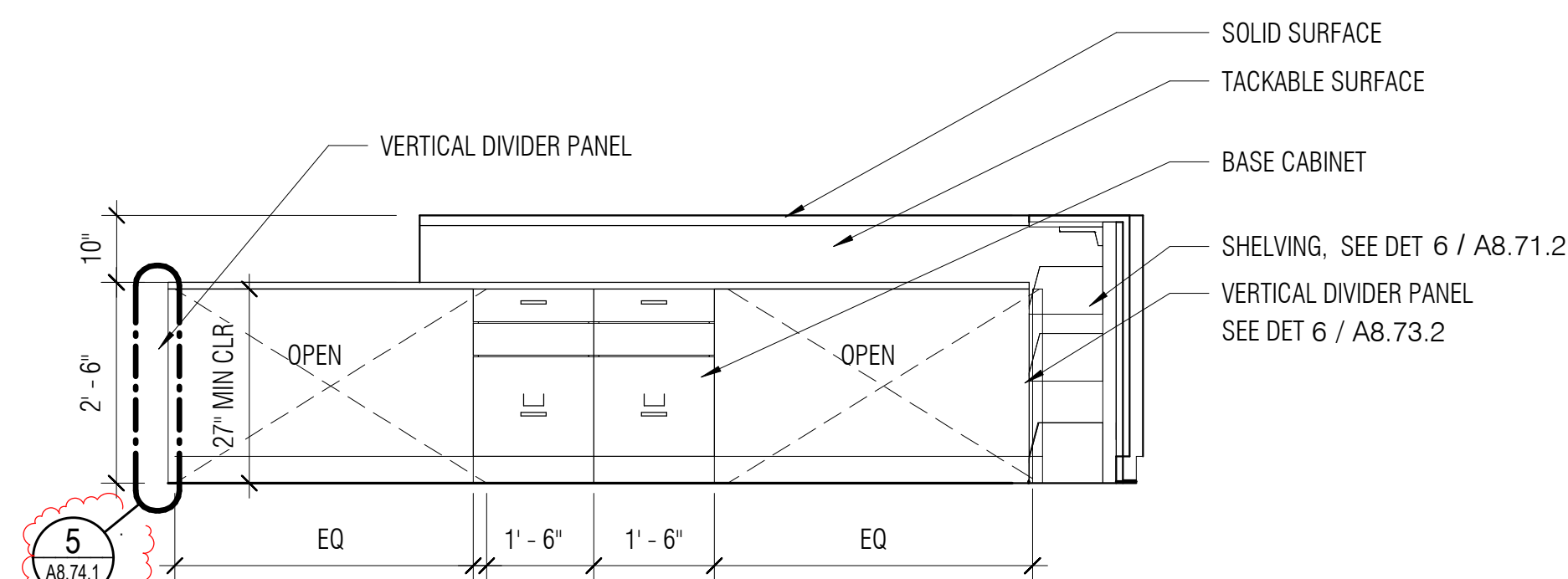
8 ELEVATION - LIBRARY RECEPTION DESK
A8.71.2 1/2" = 1'-0"



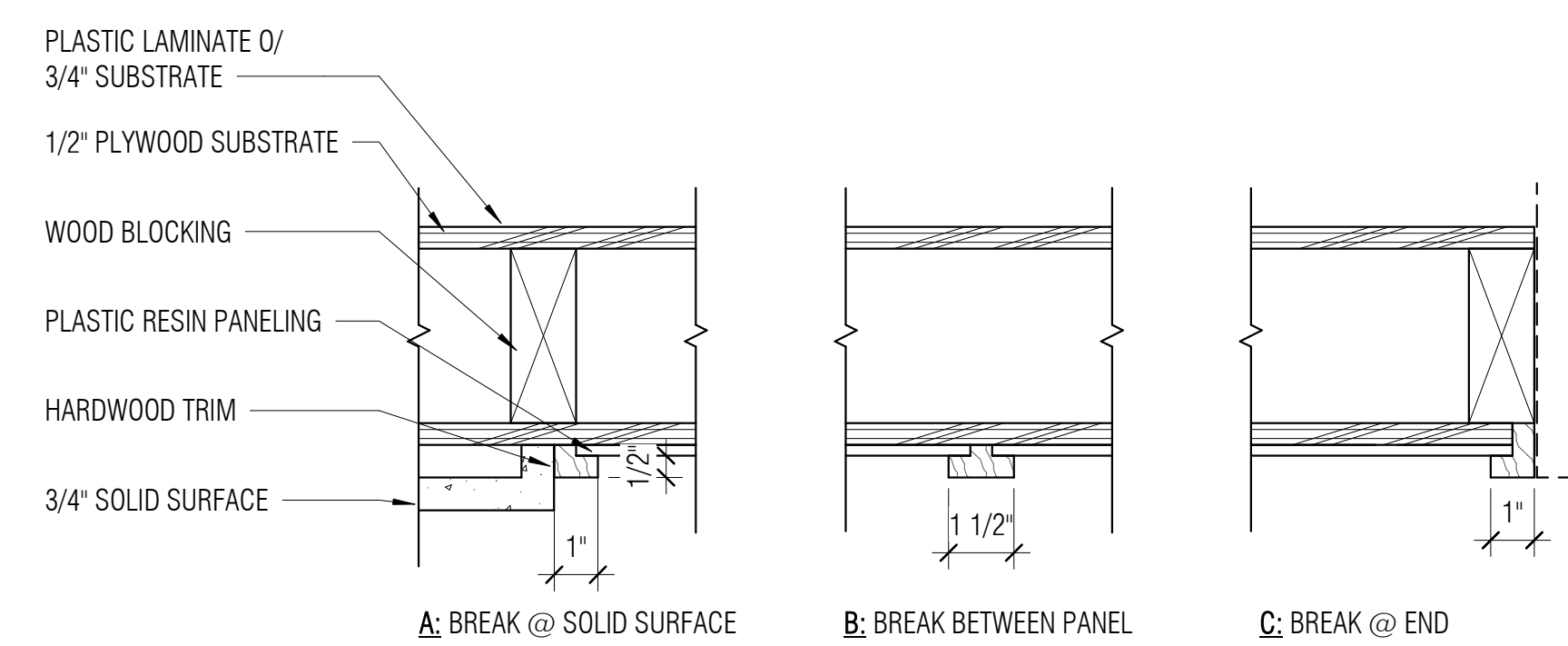
4 ENLARGED PLAN - RECEPTION
A8.71.2 1/2" = 1'-0"



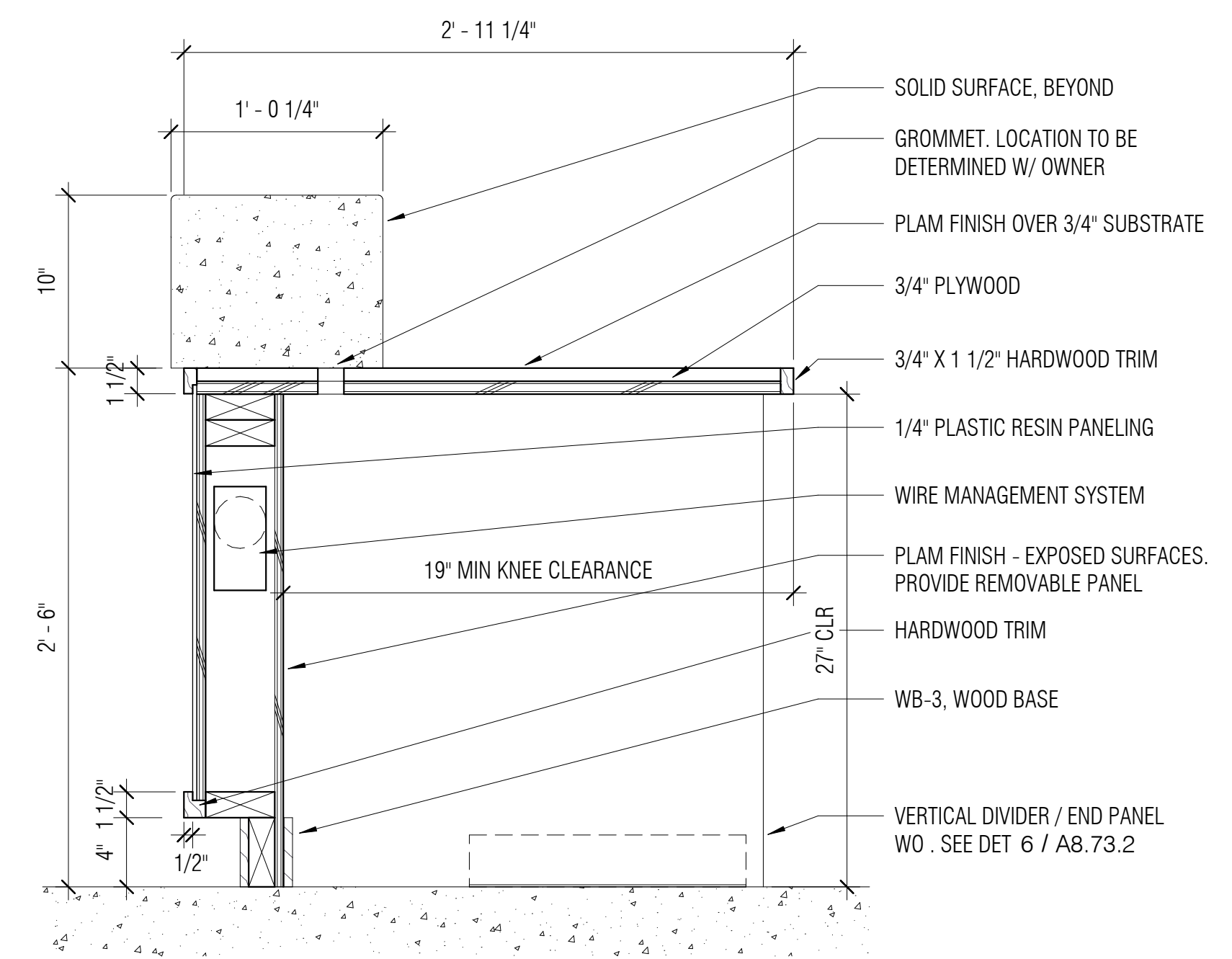
1 ELEVATION - TUTORIAL RECEPTION DESK
A8.71.2 1/2" = 1'-0"



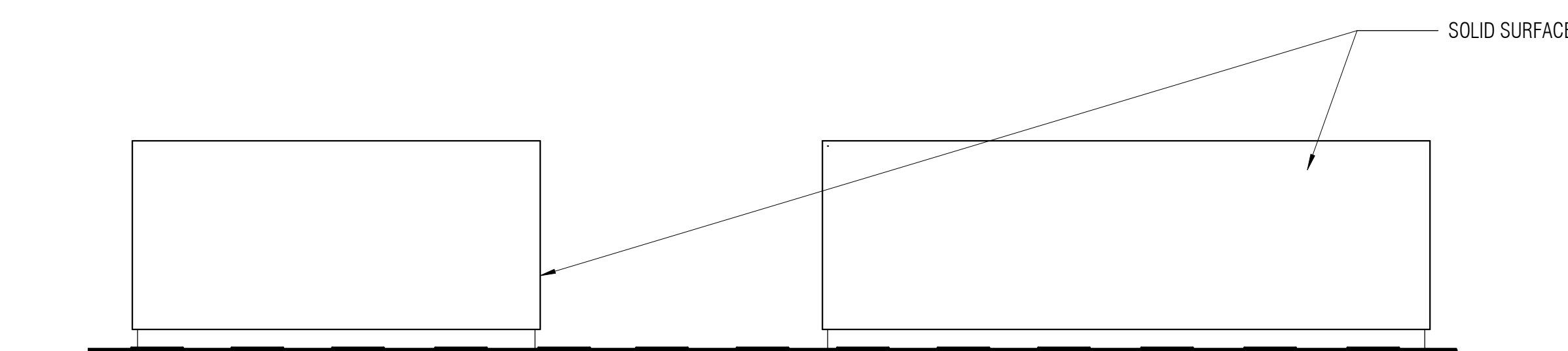
9 WEST RECEPTION
A8.71.2 1/2" = 1'-0"



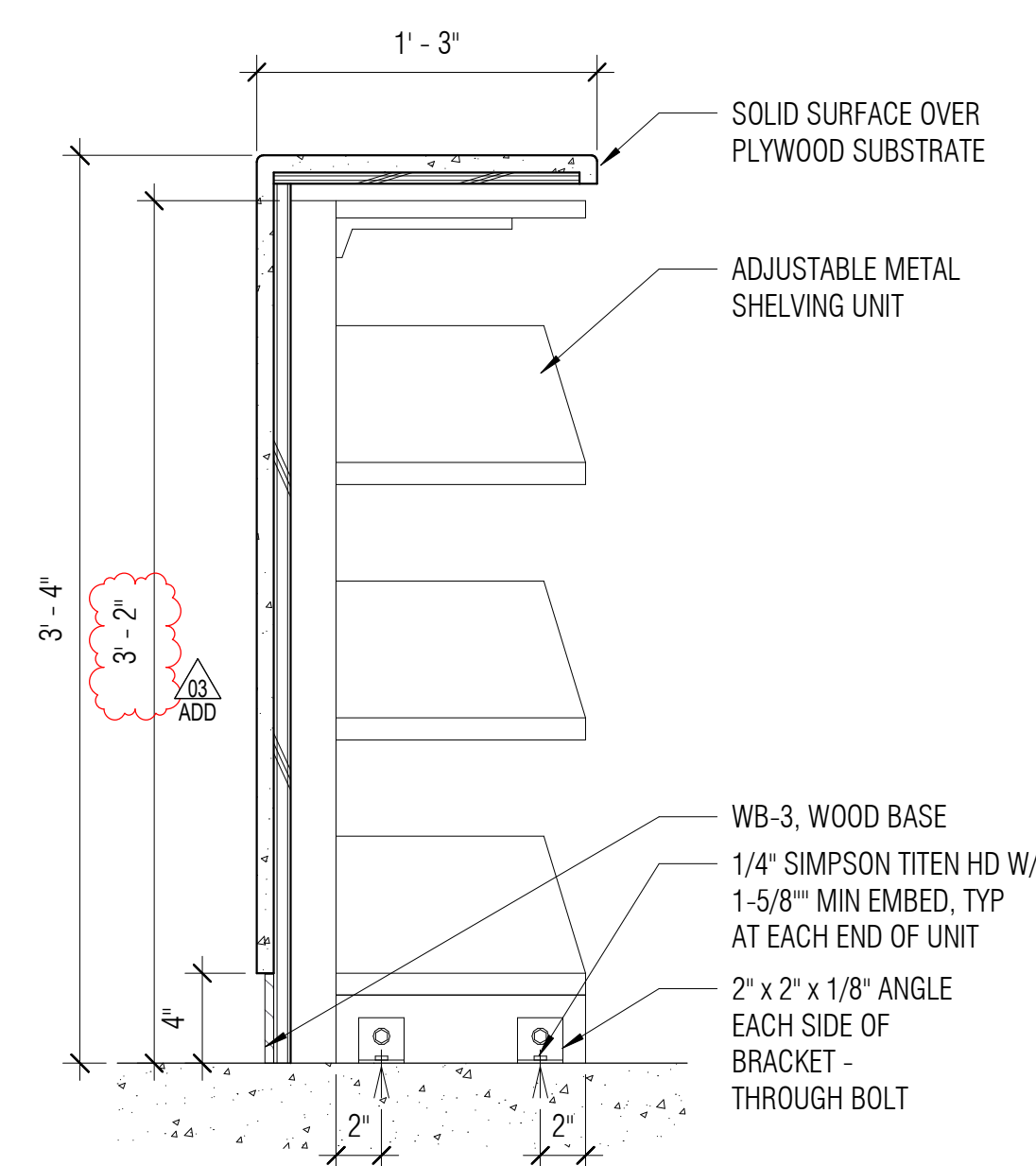
5 RECEPTION DESK WOOD TRIM DETAIL
A8.71.2 3" = 1'-0"



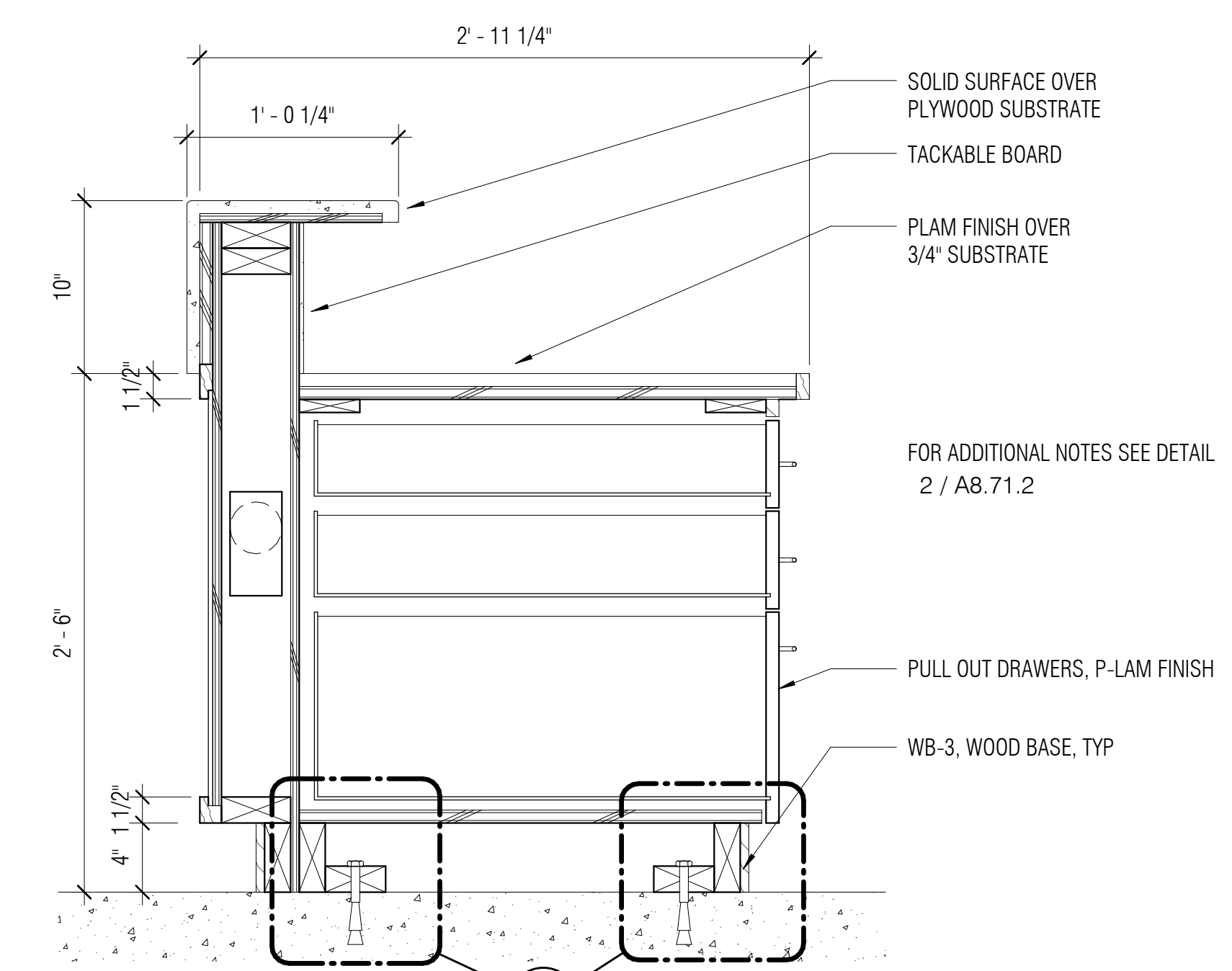
2 RECEPTION DESK ACCESSIBLE LOCATION
A8.71.2 1 1/2" = 1'-0"



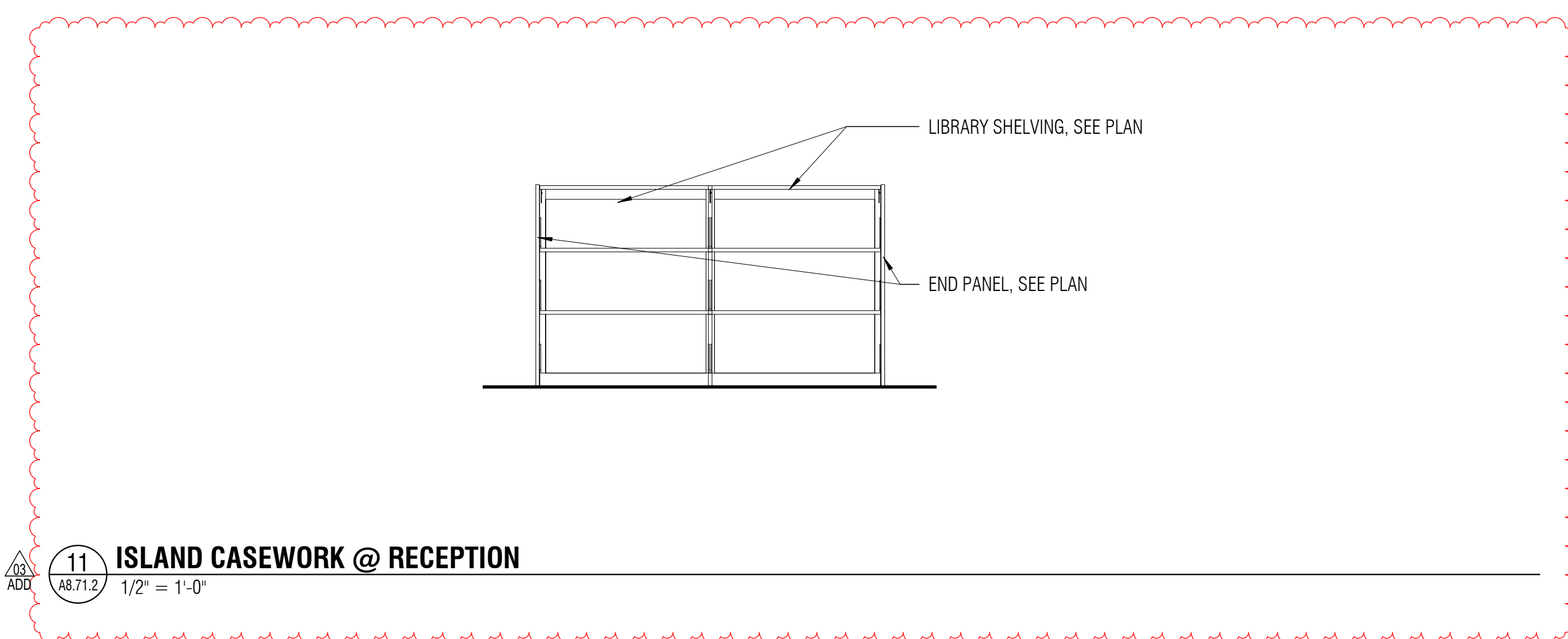
7 RECEPTION DESKS @ HALLWAY
A8.71.2 1/2" = 1'-0"



6 RECEPTION DESK SHELVING
A8.71.2 1 1/2" = 1'-0"



3 RECEPTION DESK SECTION
A8.71.2 1 1/2" = 1'-0"



11 ISLAND CASEWORK @ RECEPTION
A8.71.2 1/2" = 1'-0"

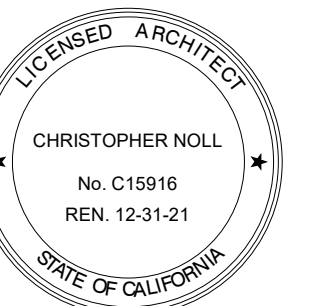
SHEET NOTES

1. REFER TO FOOD SERVICE DRAWINGS FOR ADDITIONAL INFORMATION.

NOLL & TAM ARCHITECTS

729 Heinz Avenue
Berkeley, CA 94710
tel 510.542.2200
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ARCHITECTS SEAL



PROJECT TITLE

**CONTRA COSTA
CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION &
RENOVATION**

1690 Watermill Rd.
San Ramon, CA 94582

RECORD SET:

THESE DRAWINGS HAVE BEEN PREPARED FROM ADDENDUMS, CCD'S, ASIS AND SELECT RFI'S OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM. ONLY A SELECT FEW AS-BUILTS WERE SUBMITTED.

ISSUE TITLE

INCREMENT 2

ISSUE DATE 5/30/2019

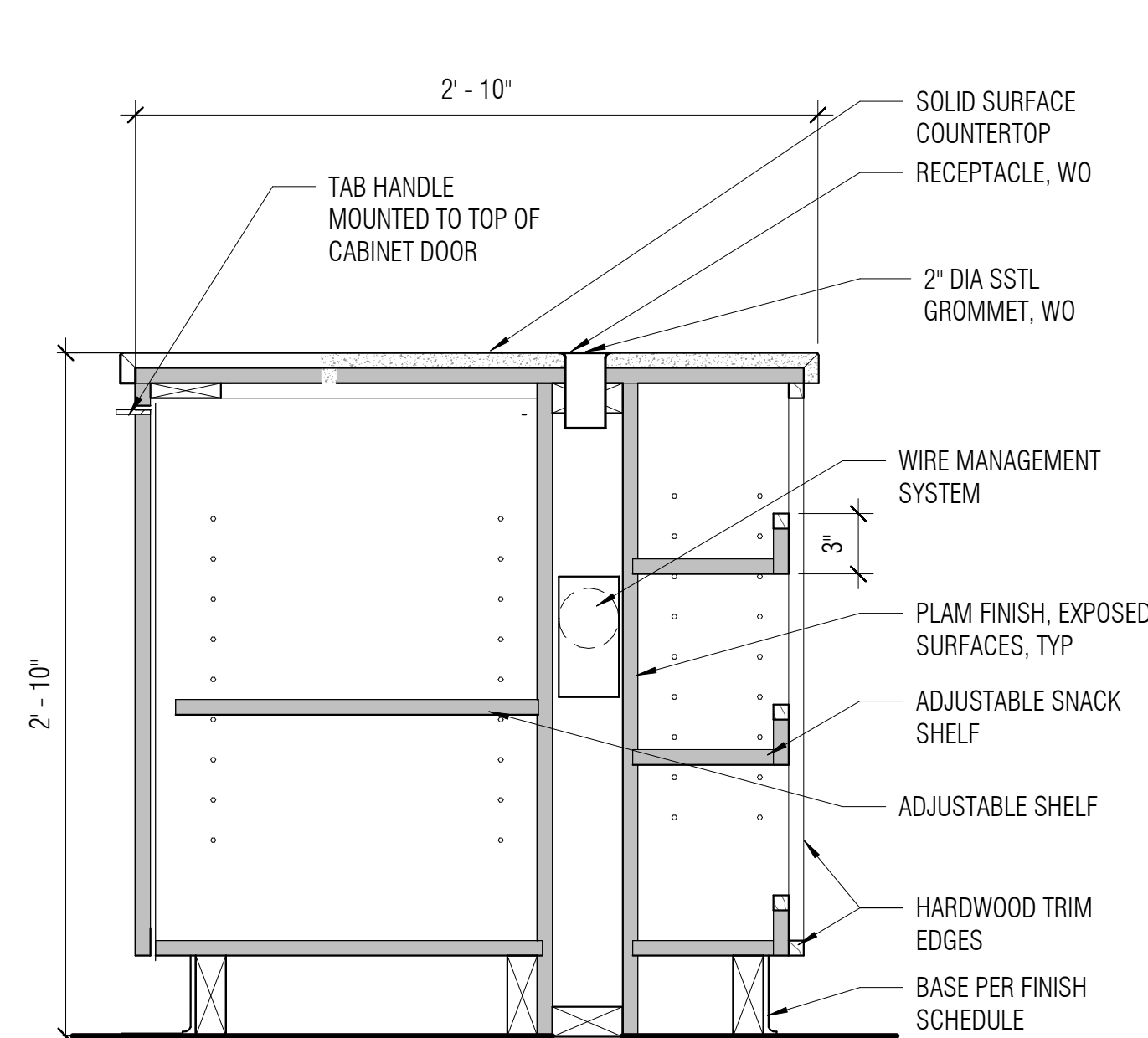
NOLL & TAM JOB NUMBER 21630

| REVISIONS | DATE | DESCRIPTION |
|-----------|---------|---------------------|
| 1 | 8/27/19 | INC 2 - ADDENDUM 03 |

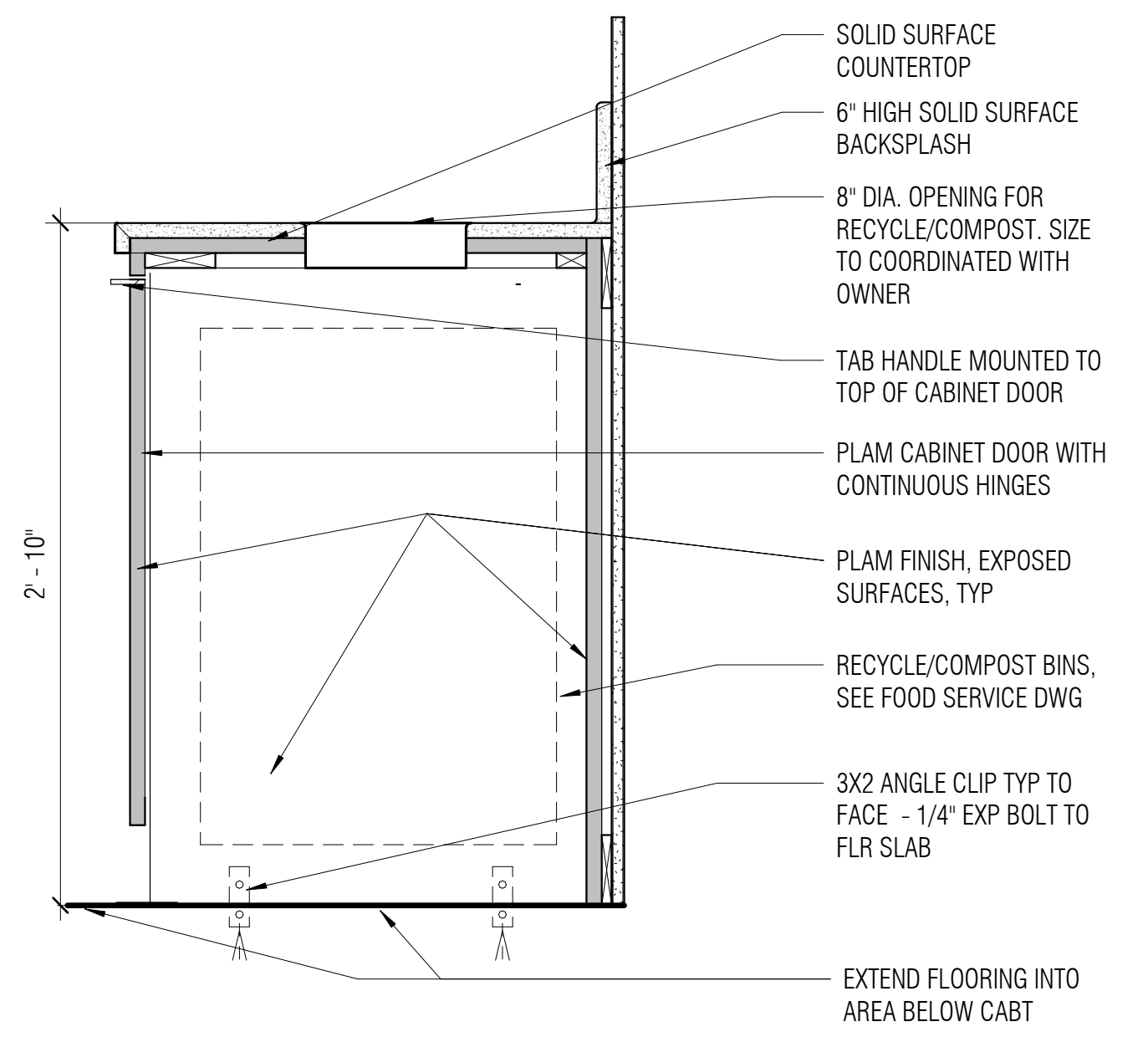
**INTERIOR DETAILS -
CASEWORK - CAFE**

SHEET NUMBER

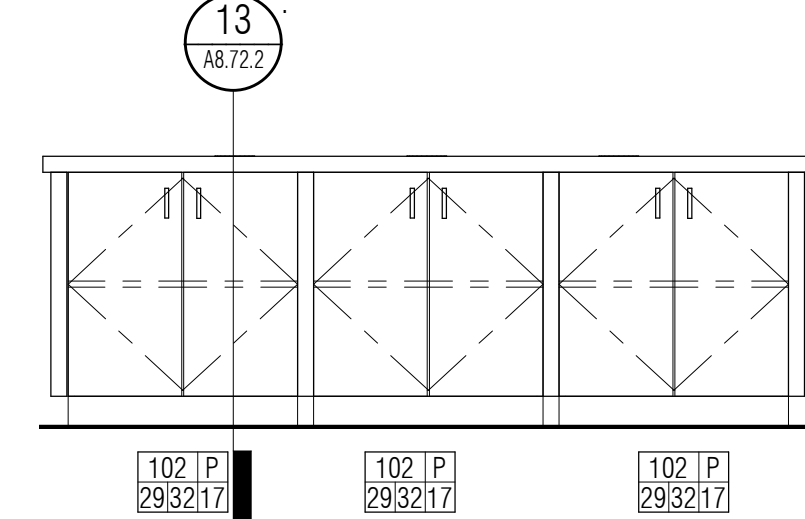
A8.72.2



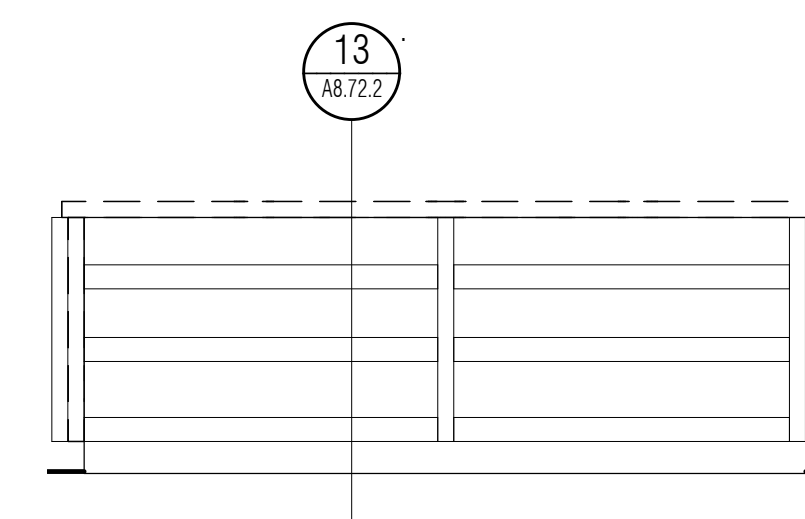
13 CAFE-ISLAND COUNTER
1 1/2" = 1'-0"



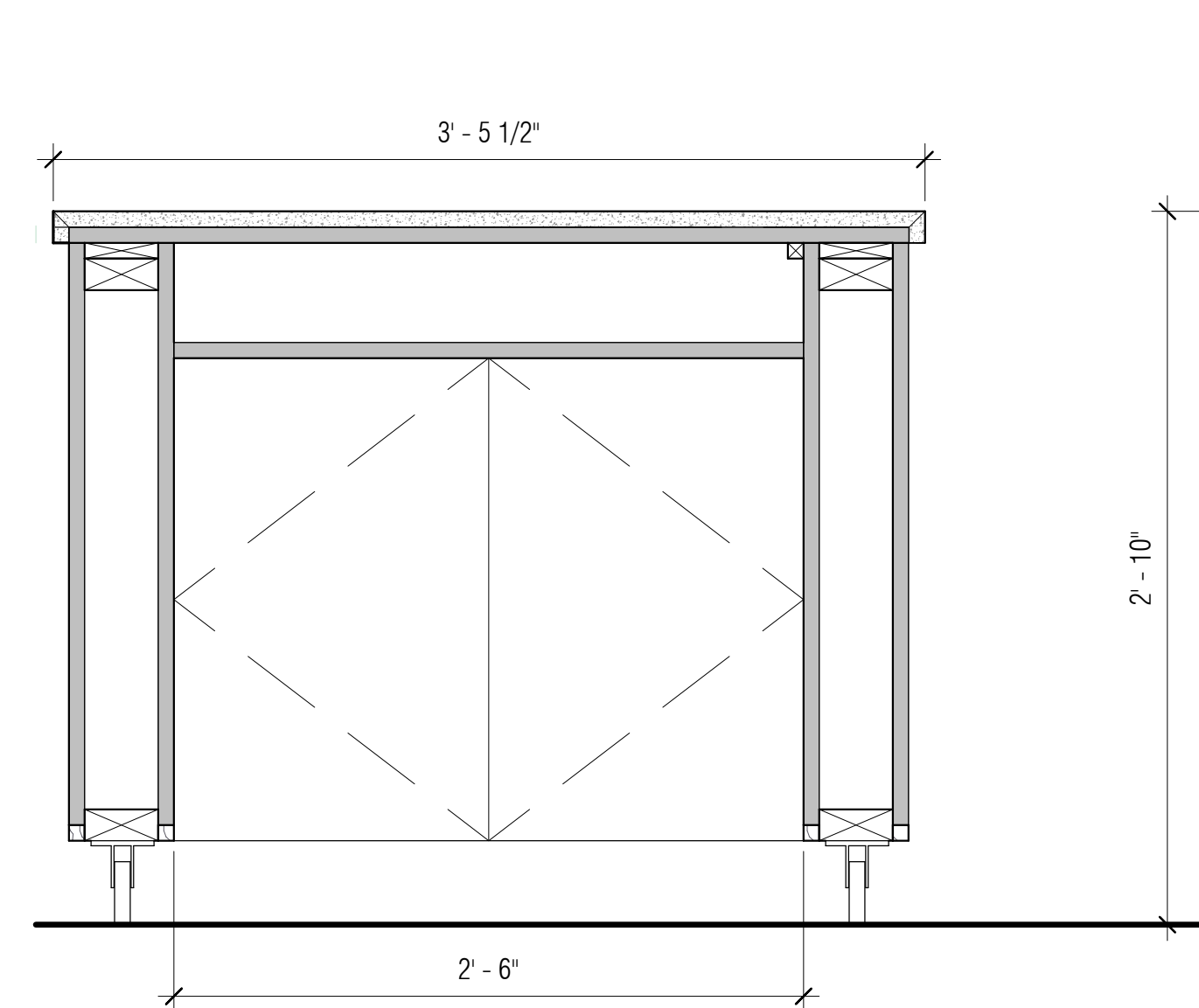
9 CAFE-COMPOST RECYCLE BASE CABINET
1 1/2" = 1'-0"



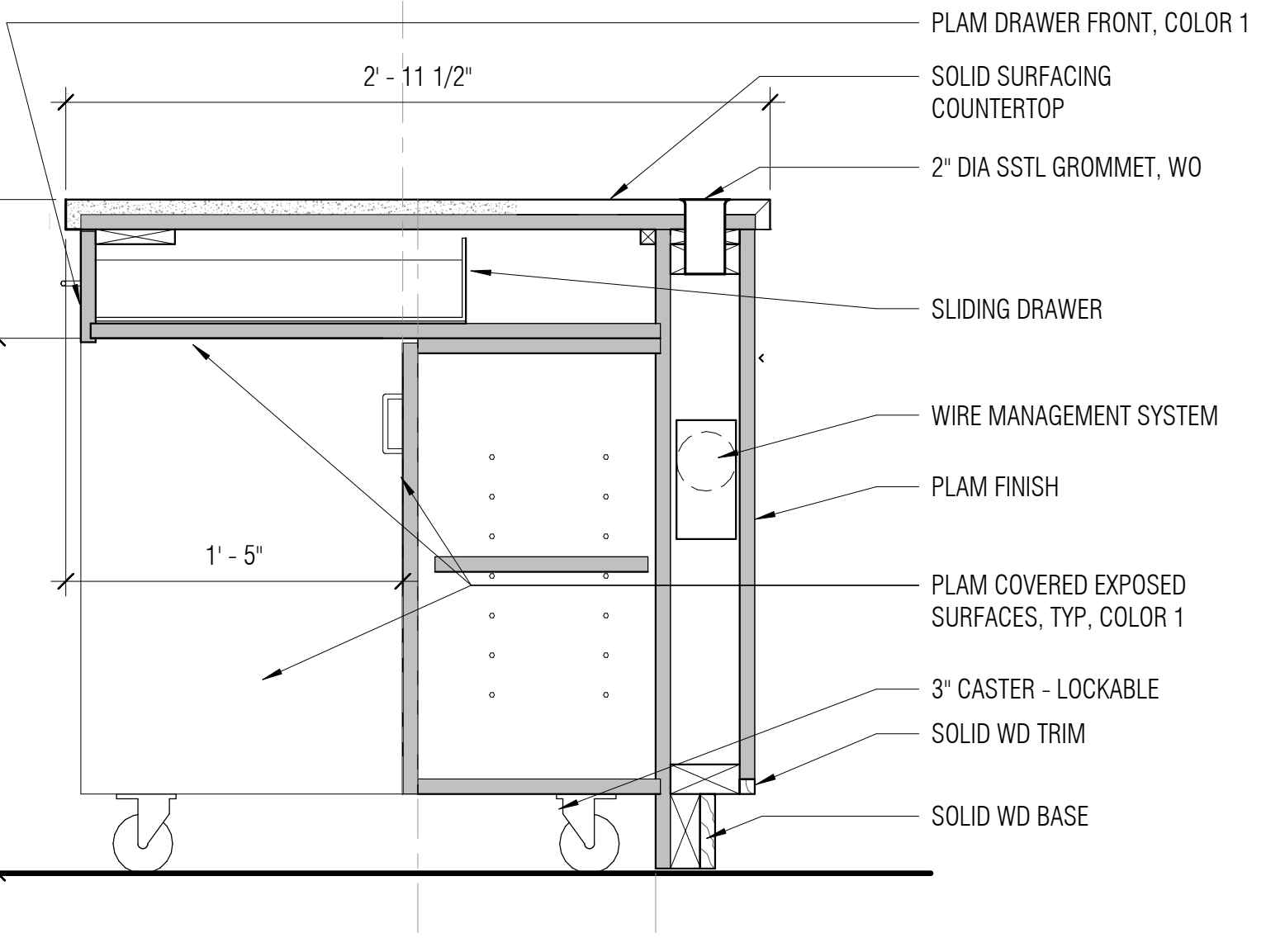
1 SERVING ISLAND COUNTER LOOKING NORTH
1/2" = 1'-0"



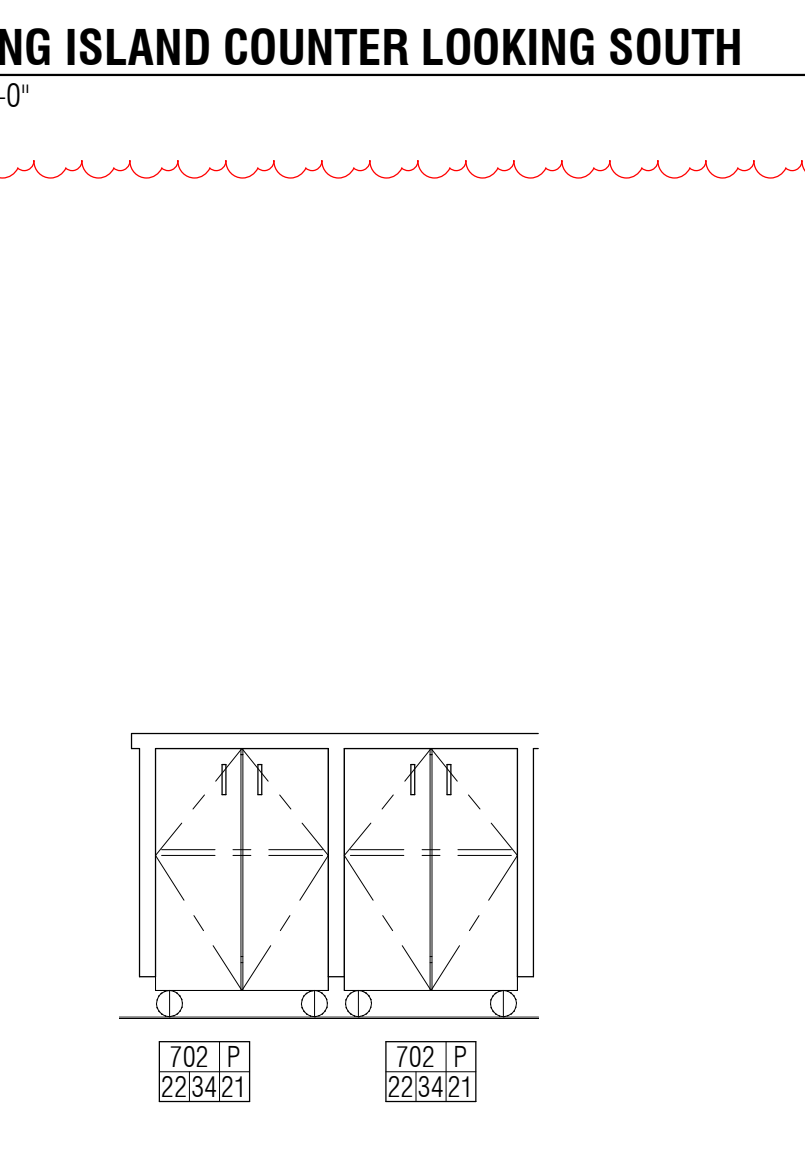
2 SERVING ISLAND COUNTER LOOKING SOUTH
1/2" = 1'-0"



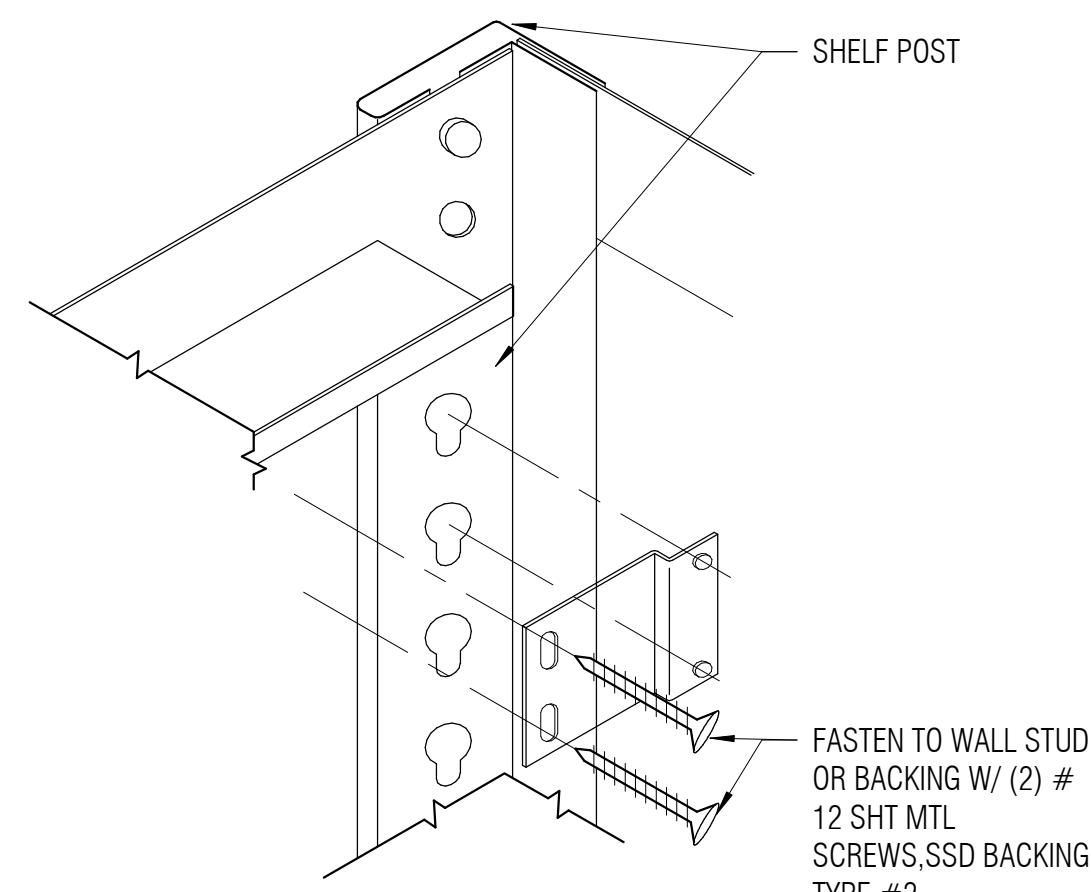
14 CAFE POS DESK
1 1/2" = 1'-0"



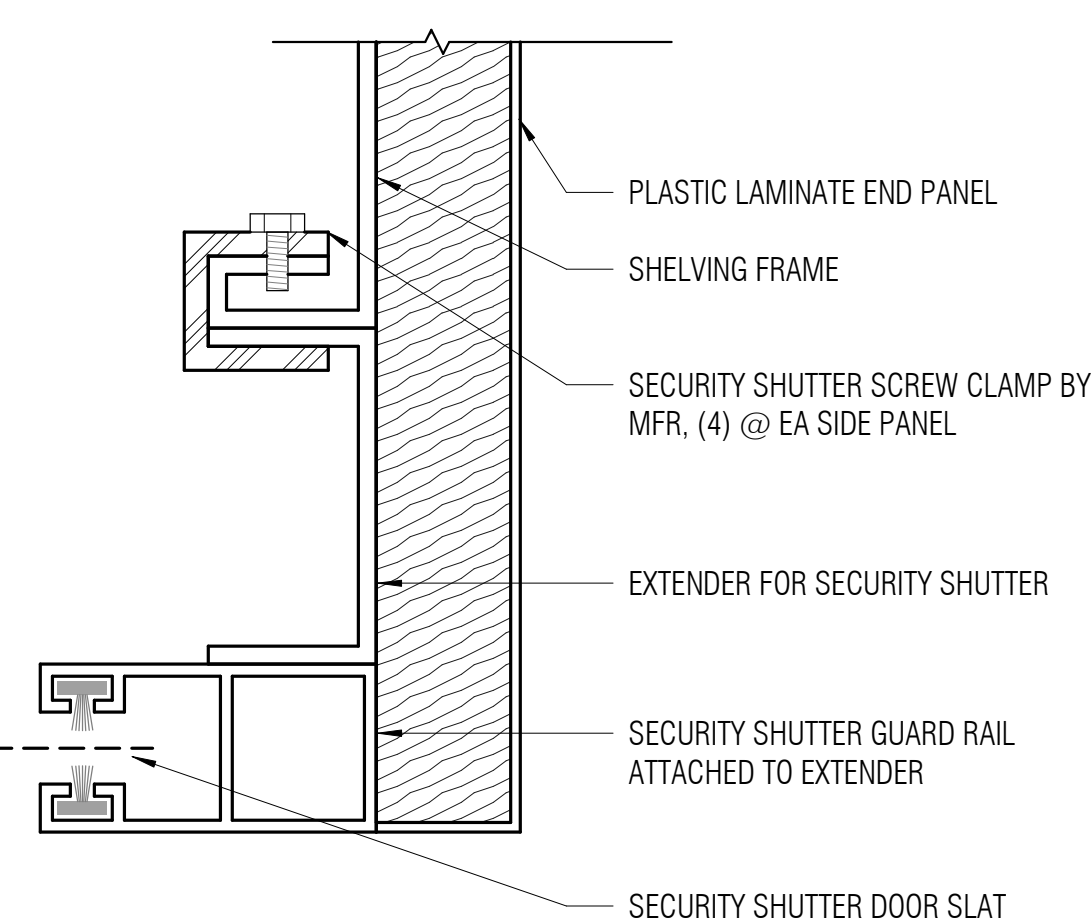
3 MOBILE CONDIMENTS CABINET
1/2" = 1'-0"



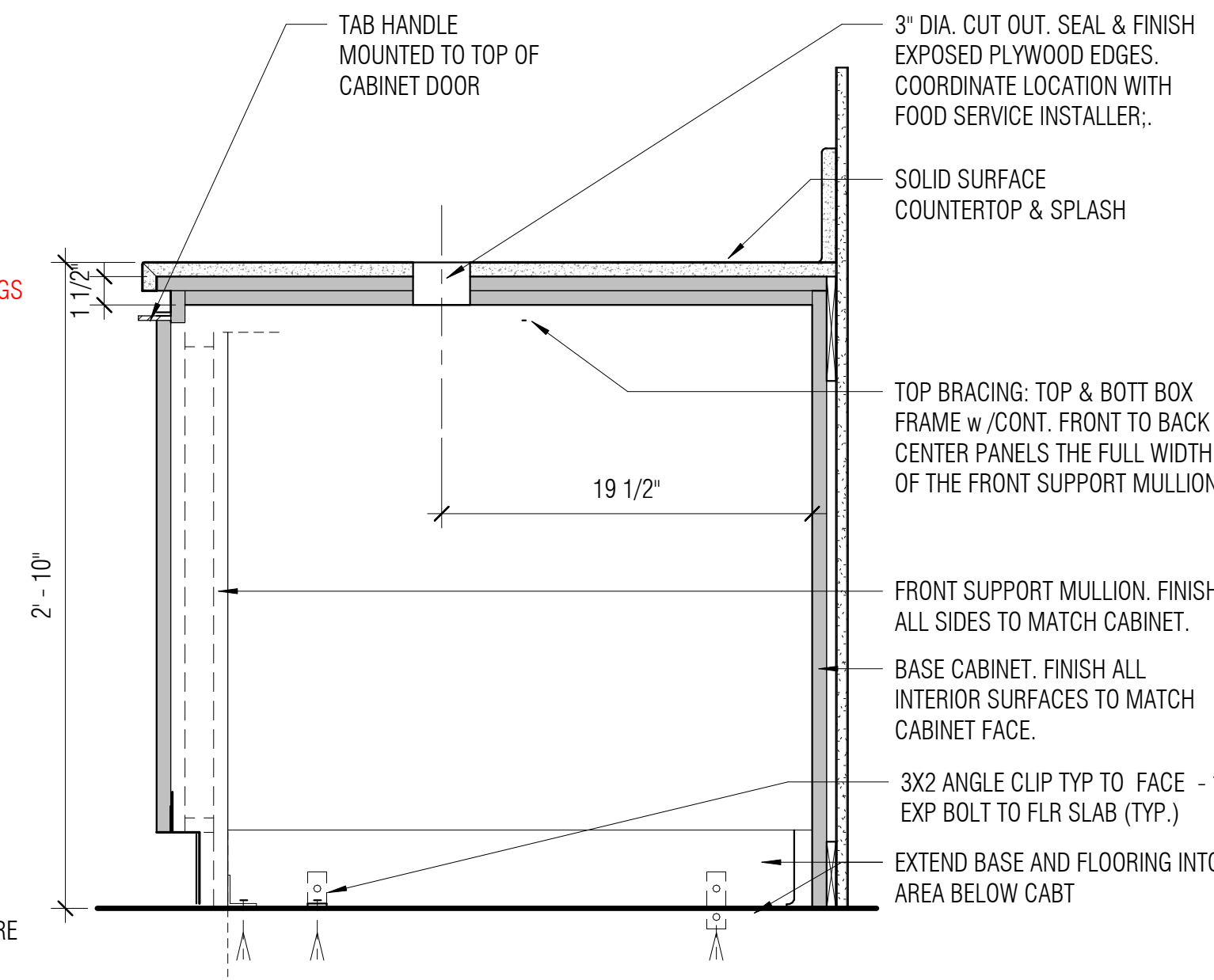
3 MOBILE CONDIMENTS CABINET
1/2" = 1'-0"



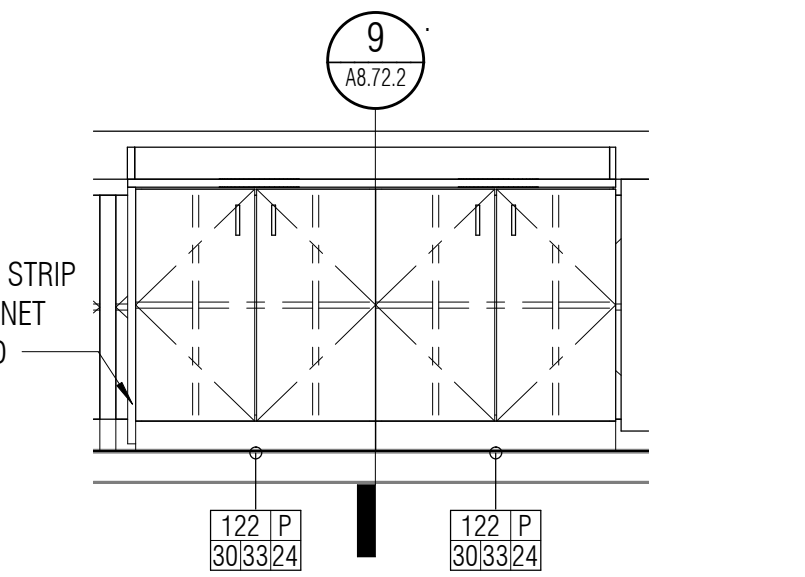
18 4-POST SHELVING WALL ANCHOR
6" = 1'-0"



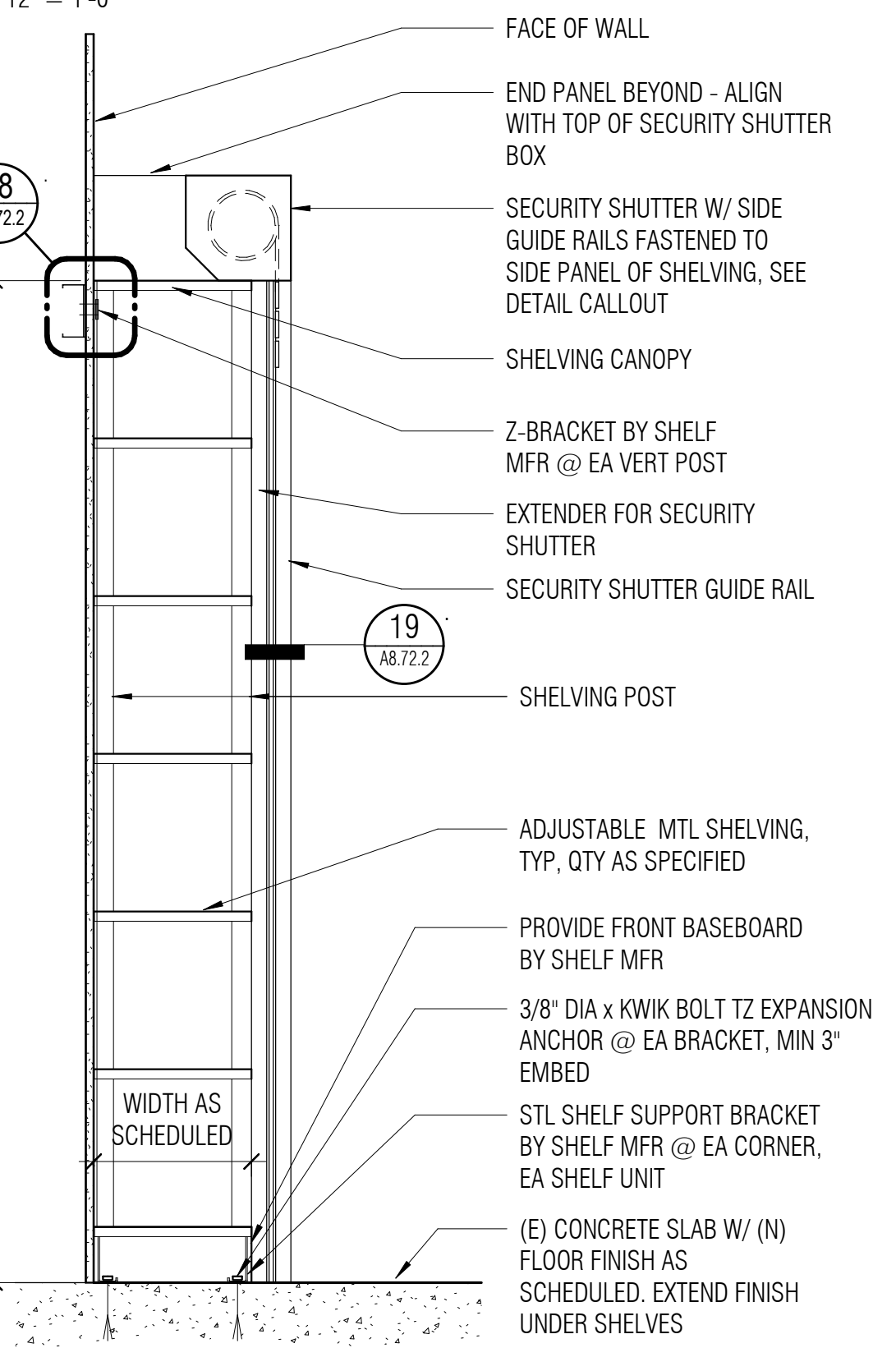
19 SECURITY SHUTTER ATTACHMENT DETAIL
12" = 1'-0"



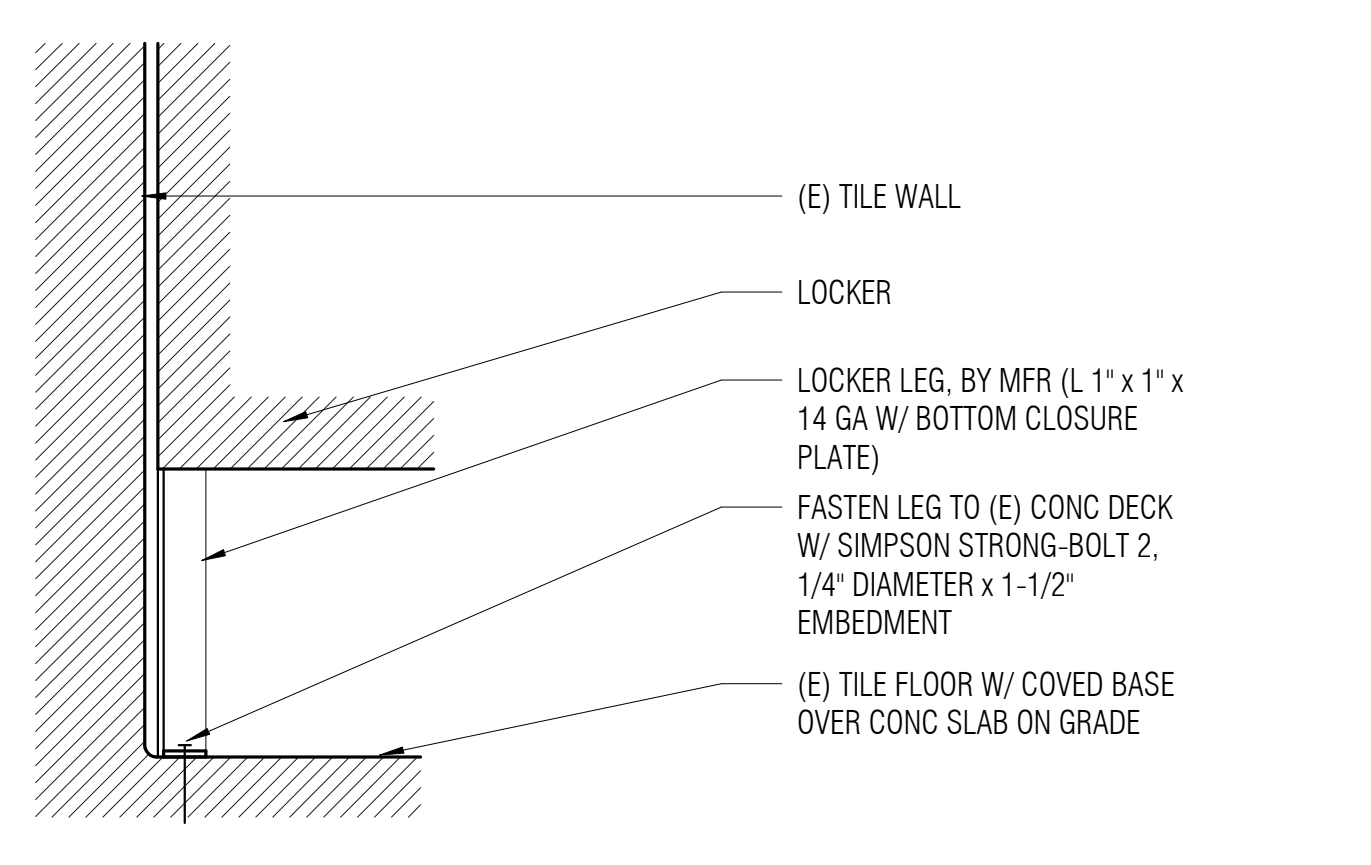
15 CAFE-BEVERAGE COUNTER
1 1/2" = 1'-0"



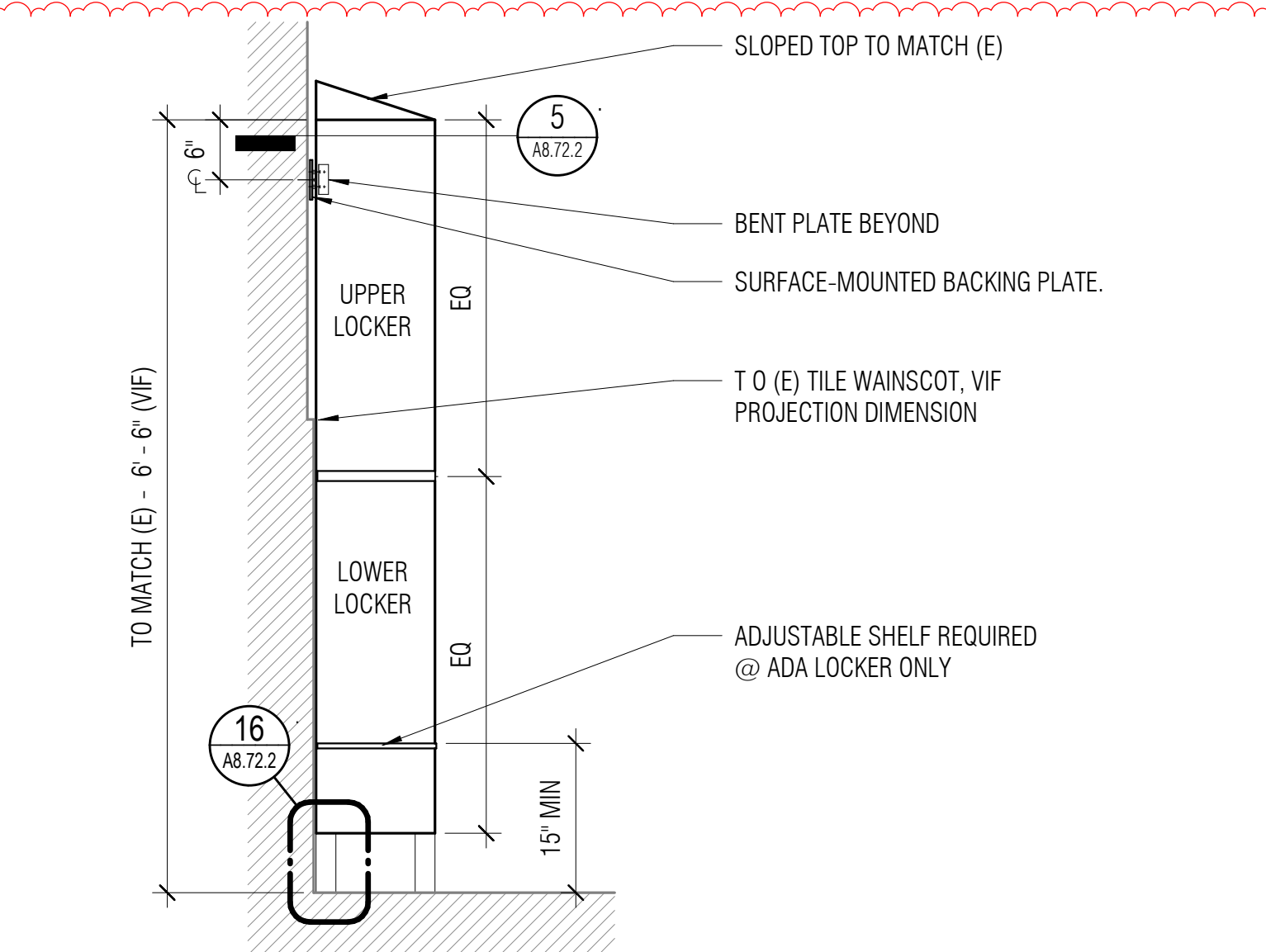
4 RECYCLE/COMPOST/TRASH CABINET
1/2" = 1'-0"



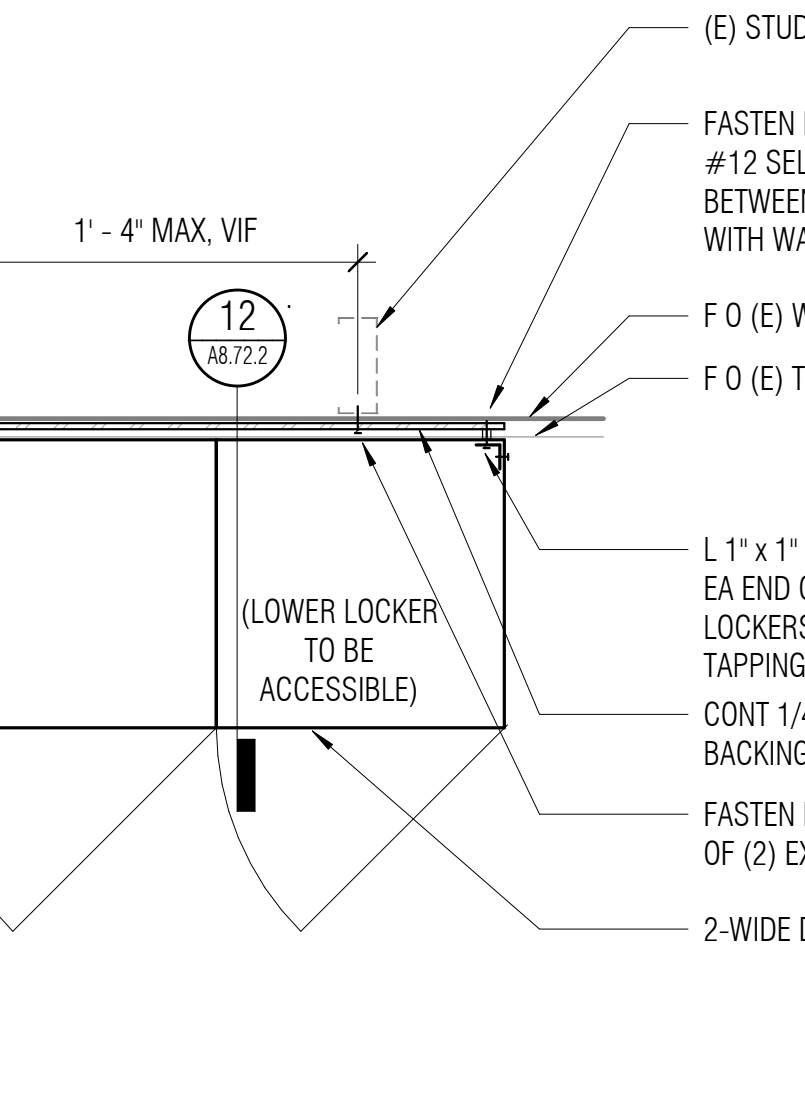
20 BOOKSTORE SHELVING (STATIONARY)
1" = 1'-0"



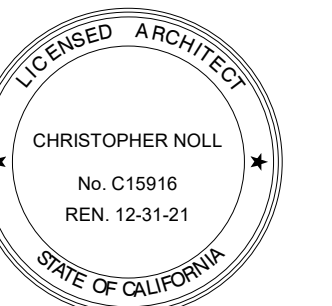
16 LOCKER ANCHORAGE @ BASE
3" = 1'-0"



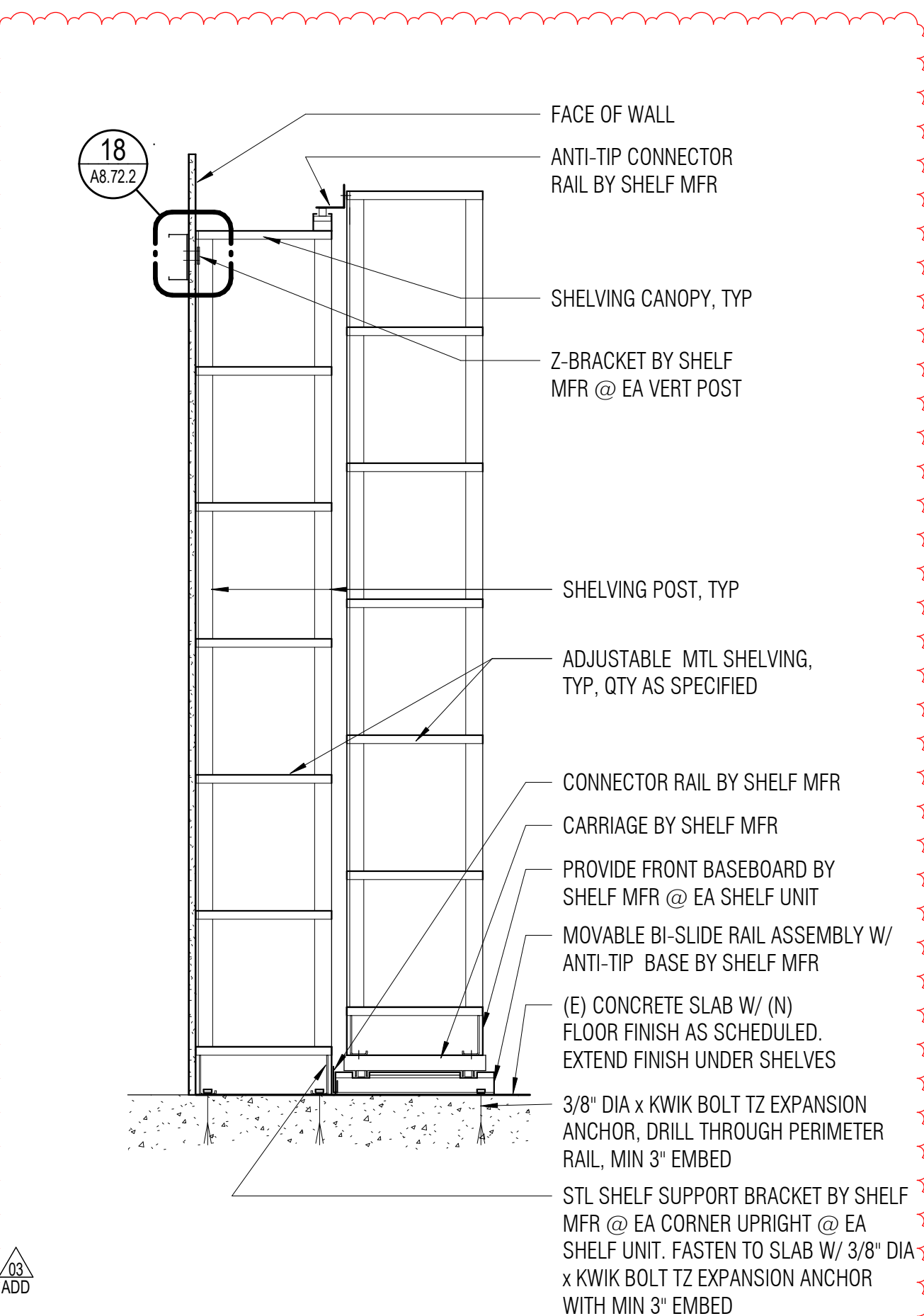
12 2-TIER LOCKER ANCHORAGE - SECTION
3/4" = 1'-0"



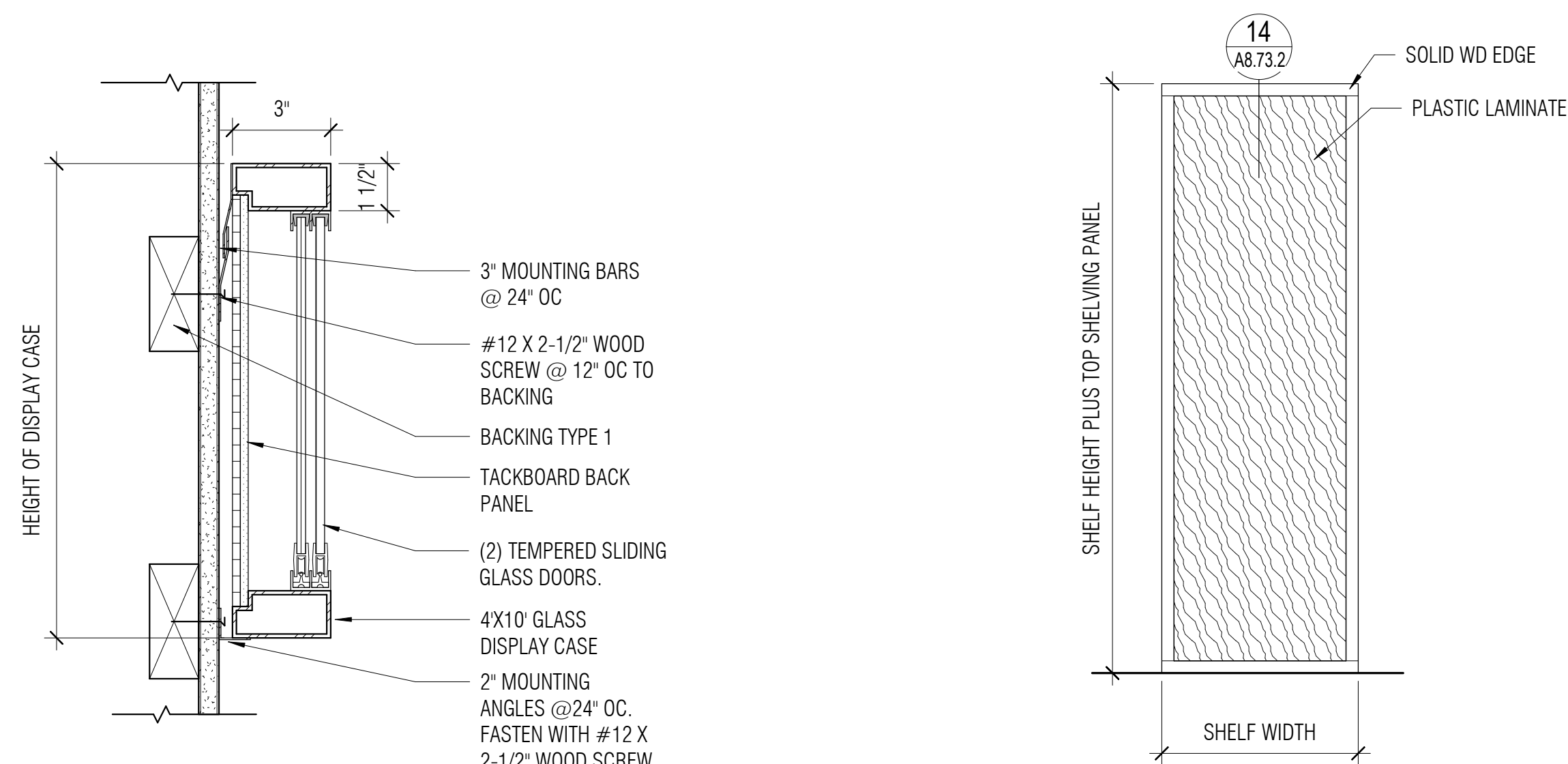
5 LOCKER ANCHORAGE - ENLARGED PLAN
1 1/2" = 1'-0"



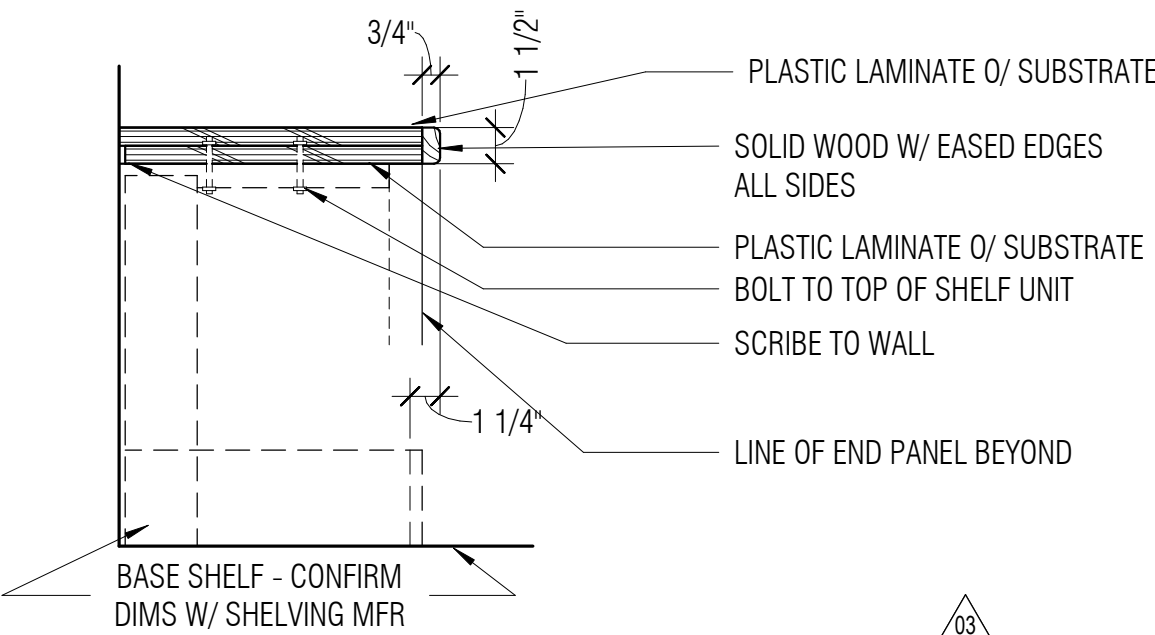
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18
A8.73.2
1" = 1'-0"

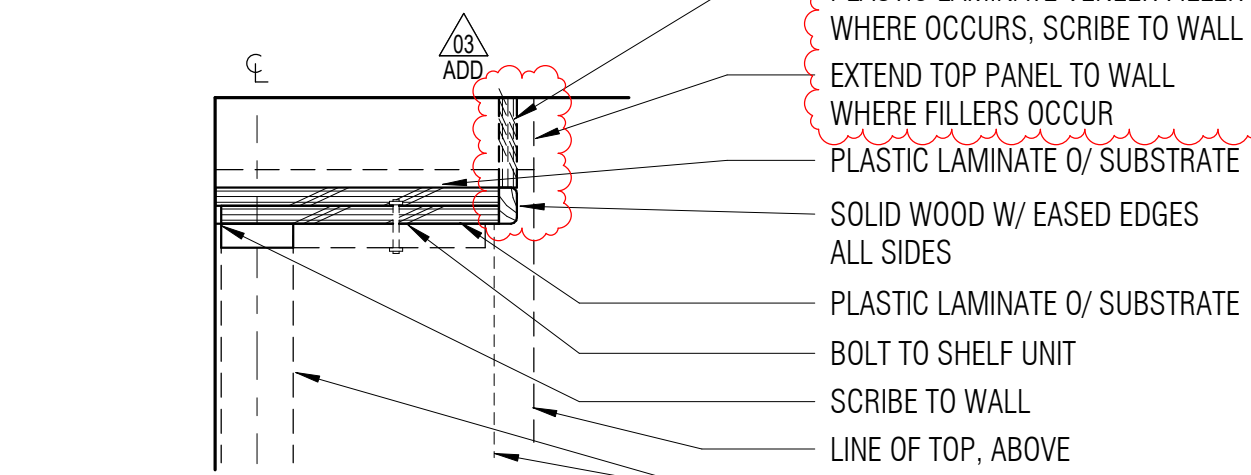


7
A8.73.2
3\"/>



9
A8.73.2
3\"/>

A: TOP PANEL @ 1 SIDED SHELF

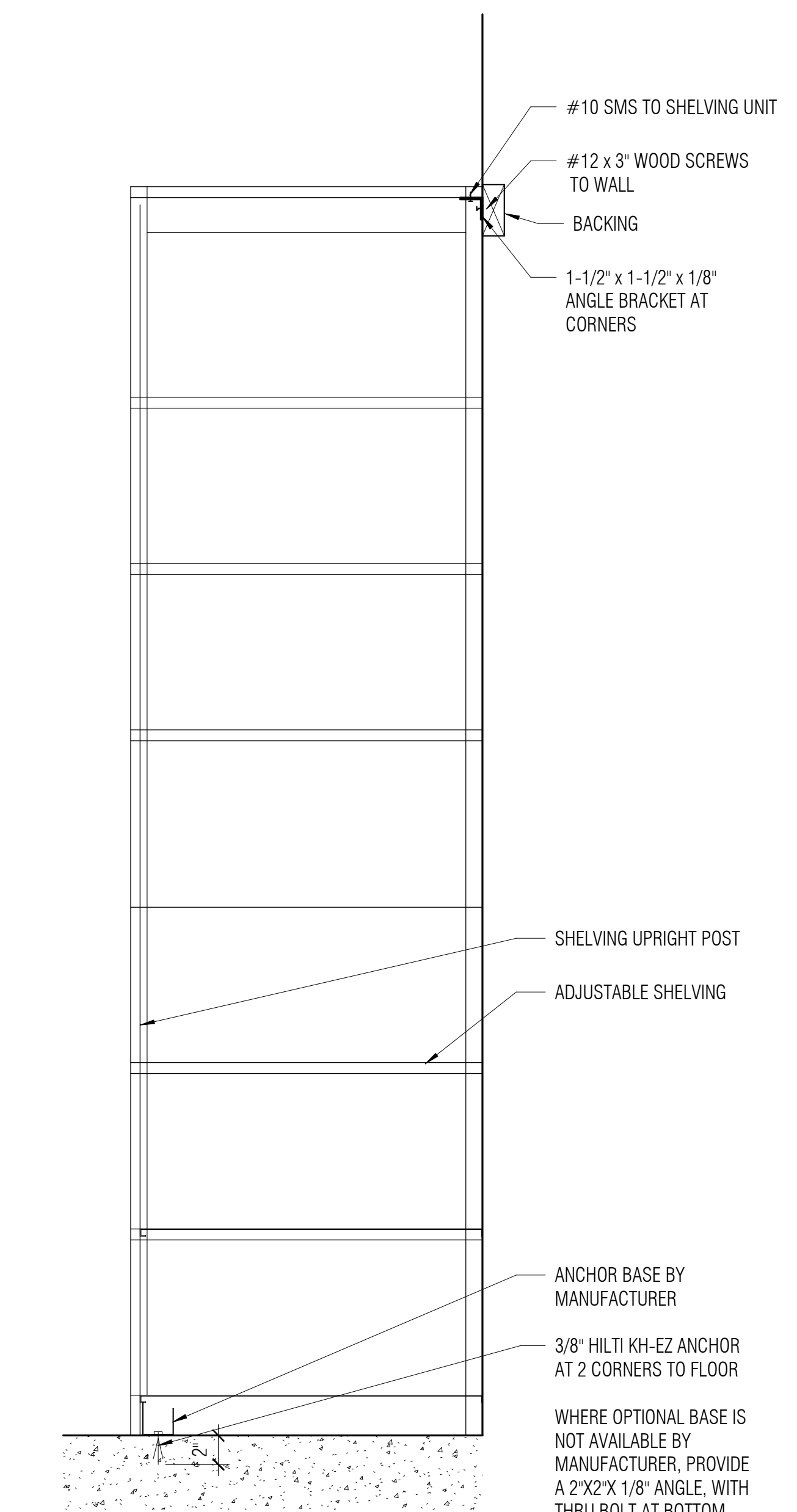


10
A8.73.2
3\"/>

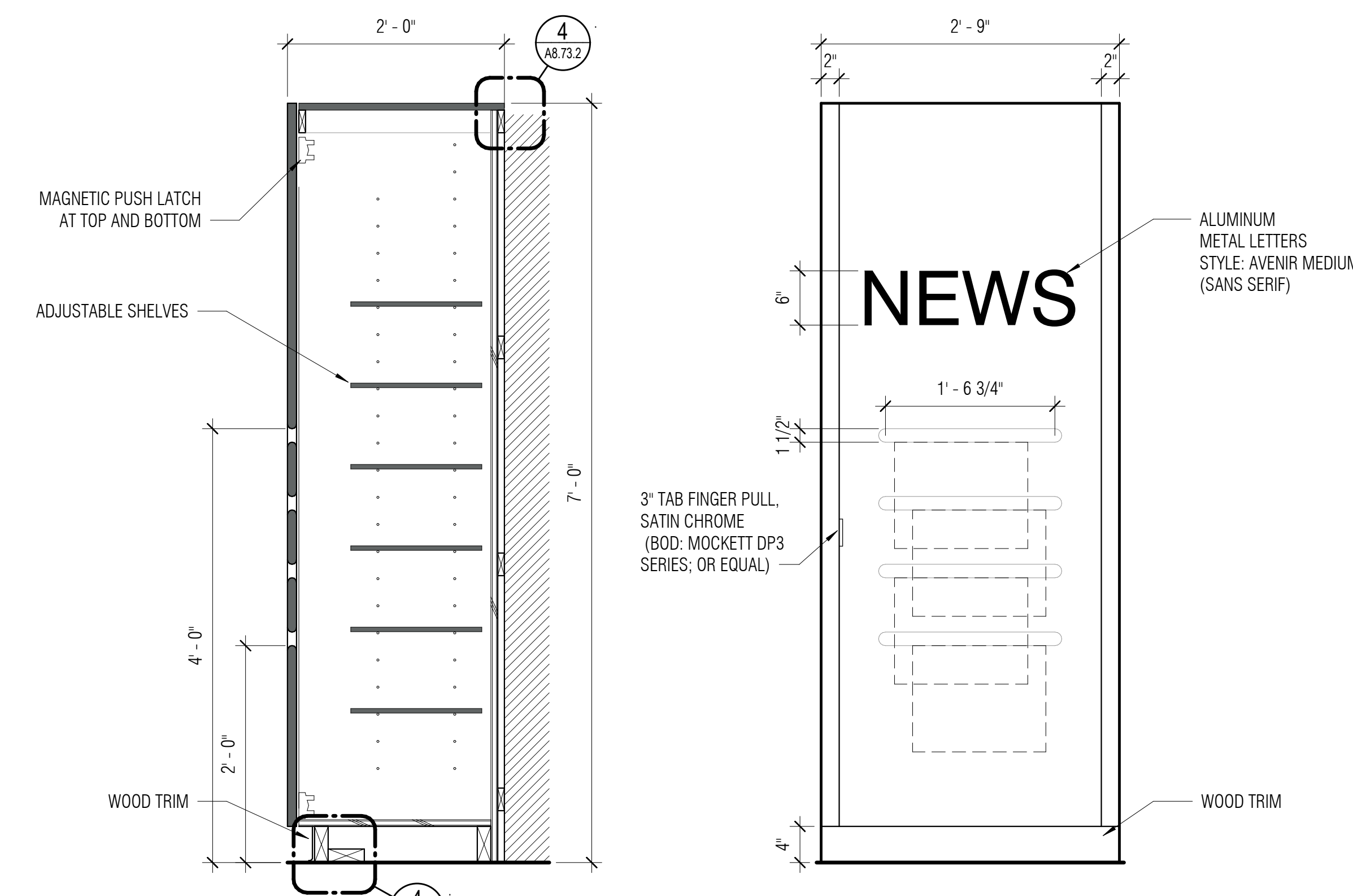
B: END PANEL @ 1 SIDED SHELF

14
A8.73.2
1 1/2\"/>

TOP SHELVING PANEL & END PANEL

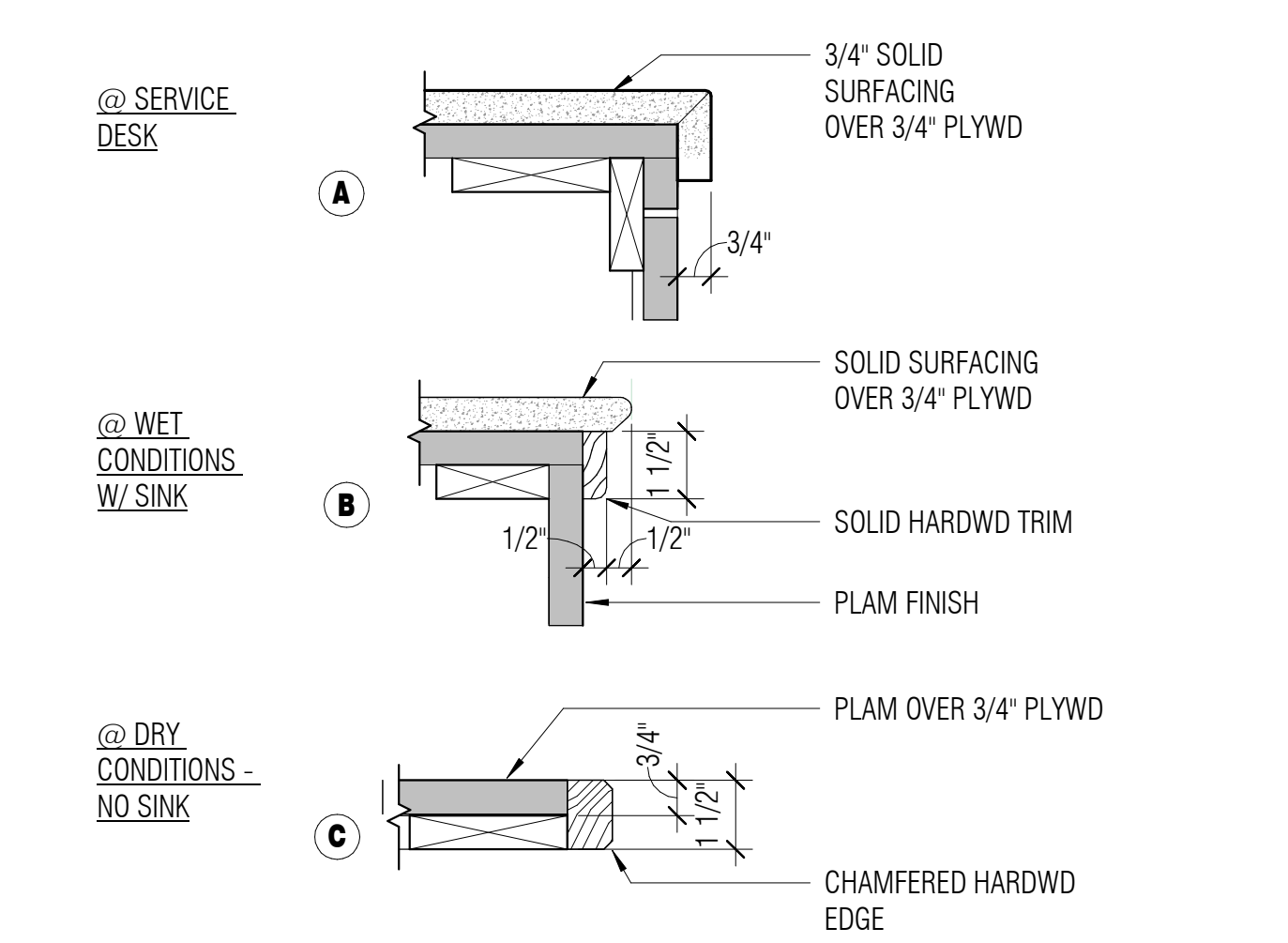


19
A8.73.2
1 1/2\"/>

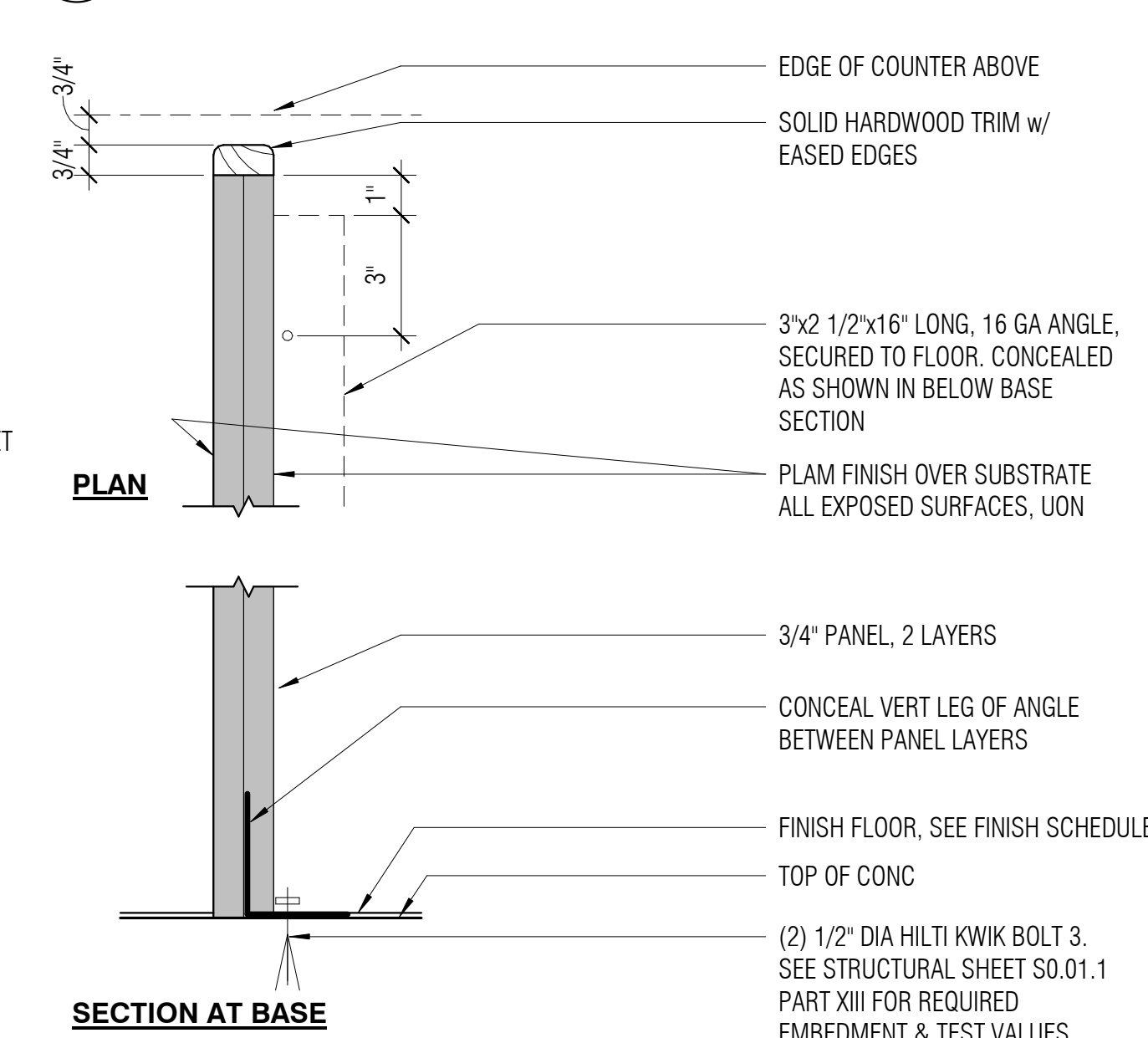


16
A8.73.2
1\"/>

NEWSPAPER RACK @ LLRC

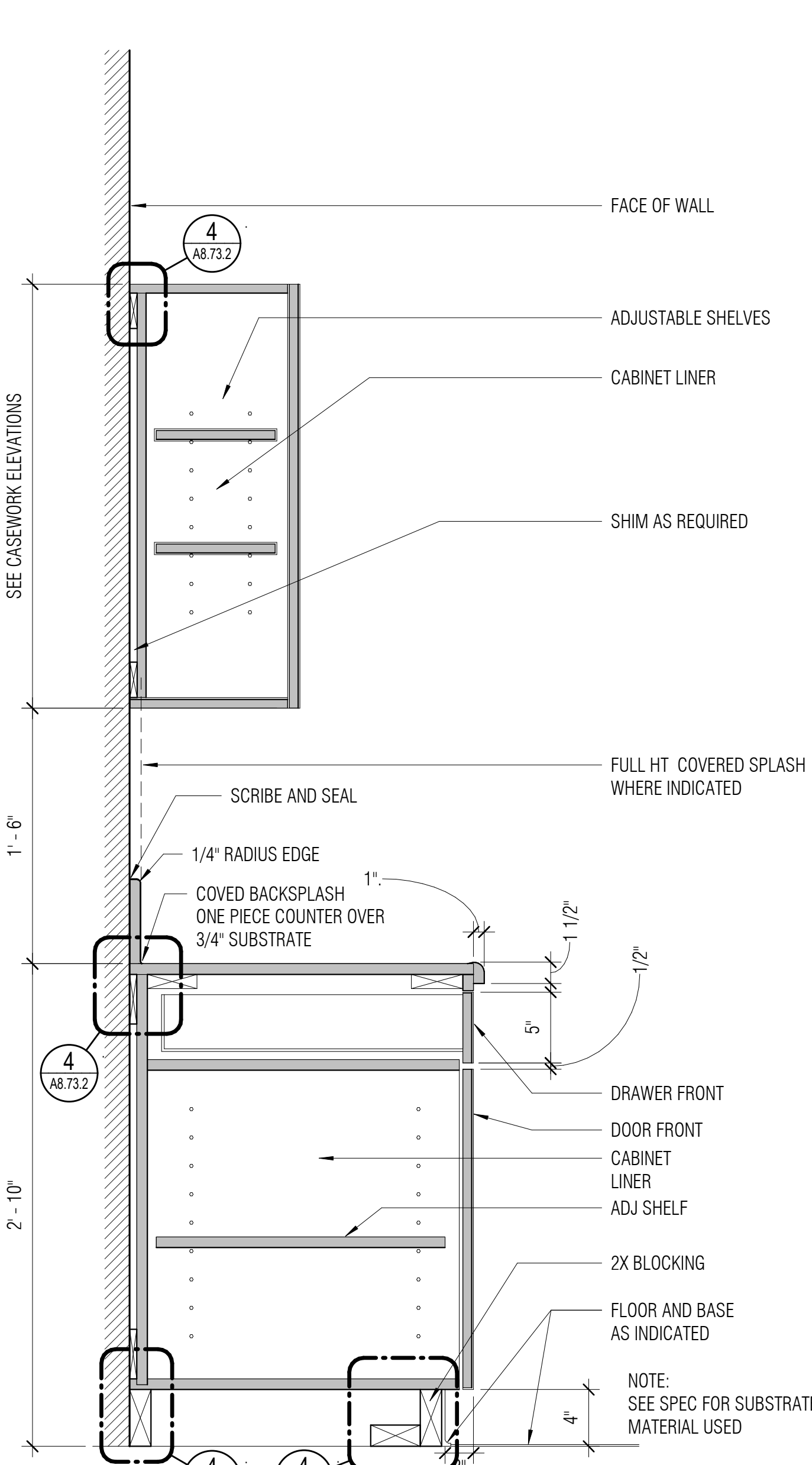


5
A8.73.2
3\"/>



6
A8.73.2
3\"/>

VERTICAL DIVIDER PANEL AT DESK

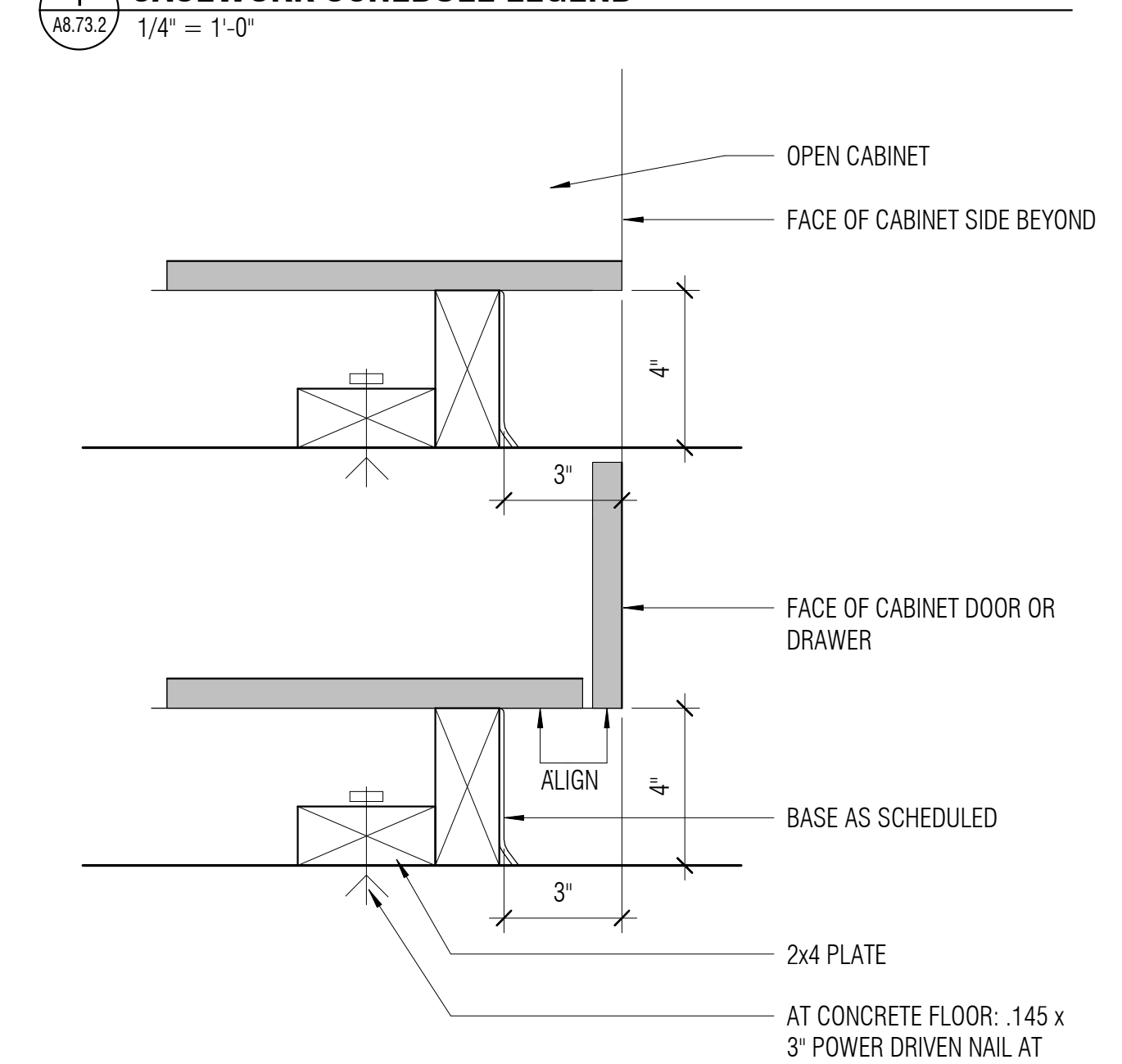


8
A8.73.2
1 1/2\"/>

BASE AND UPPER CABINET

1
A8.73.2
1/4\"/>

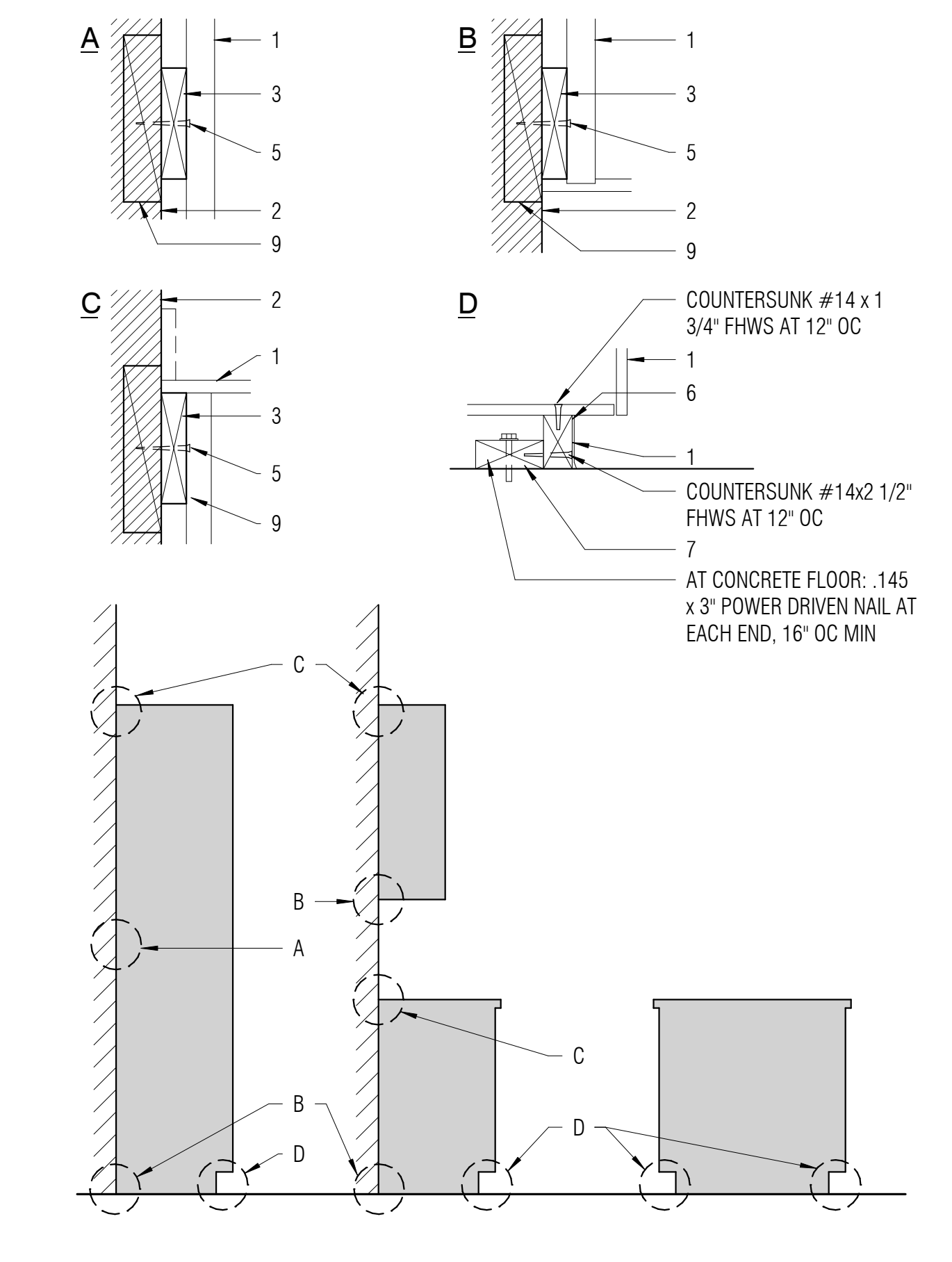
CASEWORK SCHEDULE LEGEND



2
A8.73.2
3\"/>

TOEKICK ANCHORAGE (GENERIC)

- CASEWORK (FRONT) (BACK) (TOP) (BOTTOM) - 3/4" THICKNESS
- FACE OF WALL
- 1X4 CONTINUOUS WOOD CLEAT
- 1X2 CONTINUOUS WOOD CLEAT
- ANCHORAGE - TYPE VARIES BASE UPON WALL CONSTRUCTION AS FOLLOWS:
WOOD STUD FRAMING - #10 X 3 1/2" FHWS @ 16" OC, 2" MAXIMUM FROM EACH END AT STUD OR BLOCKING, MINIMUM 2 PER CABINET W/ 3X4 WOOD BLOCKING WITH A34 EACH END AND TOP AND BOTTOM, OR
METAL STUD FRAMING - #8 X 2 1/2" FHMS @ 16" OC, 2" MAXIMUM FROM EACH END, MINIMUM 2 PER CABINET W/ CONT 18 GA X 4" STEEL PLATE X CABINET LENGTH, OR
MASONRY OR CONCRETE - 3/8" DIA RAMSET DYNABOLT SLEEVE ANCHORS (2" MIN EMBEDMENT) @ 24" OC, MINIMUM 2 PER CABINET.
- 2X SKIRT - BASE AS SCHEDULED
- 2X4 PLATE
- #10 X 3" FLAT HEAD WOOD SCREWS @ 24" OC.
- NAILER AS REQUIRED



4
A8.73.2
1/2\"/>

TYPICAL CASEWORK ANCHORAGE

GENERAL

1. ALL WALLS TO BE PT-1 UON
2. REFER TO SHEET A8.21.2 FOR FINISH TRANSITION DETAILS

APPROVALS

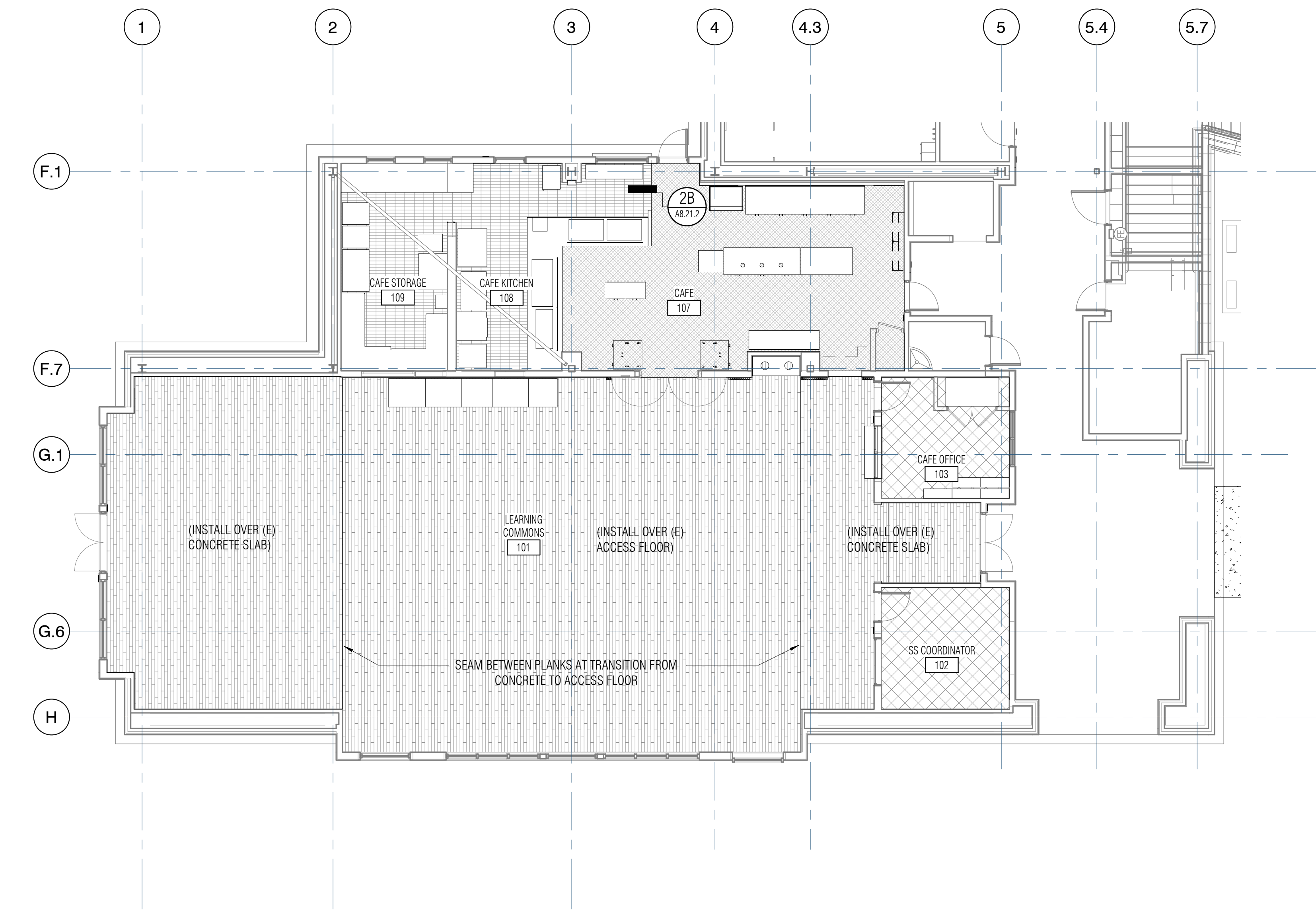
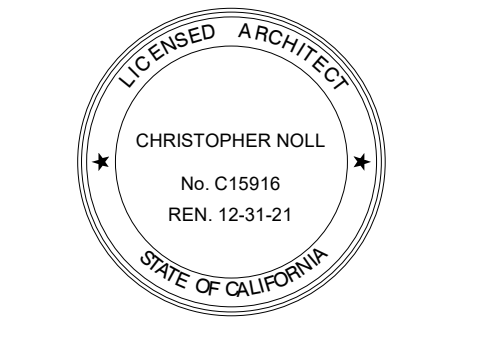
FINISH PLAN LEGEND

- FF-1 FLOORING - LVT
- FF-2 FLOORING - SHEET VINYL
- FF-3 FLOORING - SHEET VINYL
- CPT-1 CARPET TILE - RENOVATION
- CPT-2 CARPET TILE - FIELD
- CPT-3 CARPET TILE - FIELD
- CPT-4 CARPET TILE - ACCENT
- CF-2 CONCRETE. SEAL

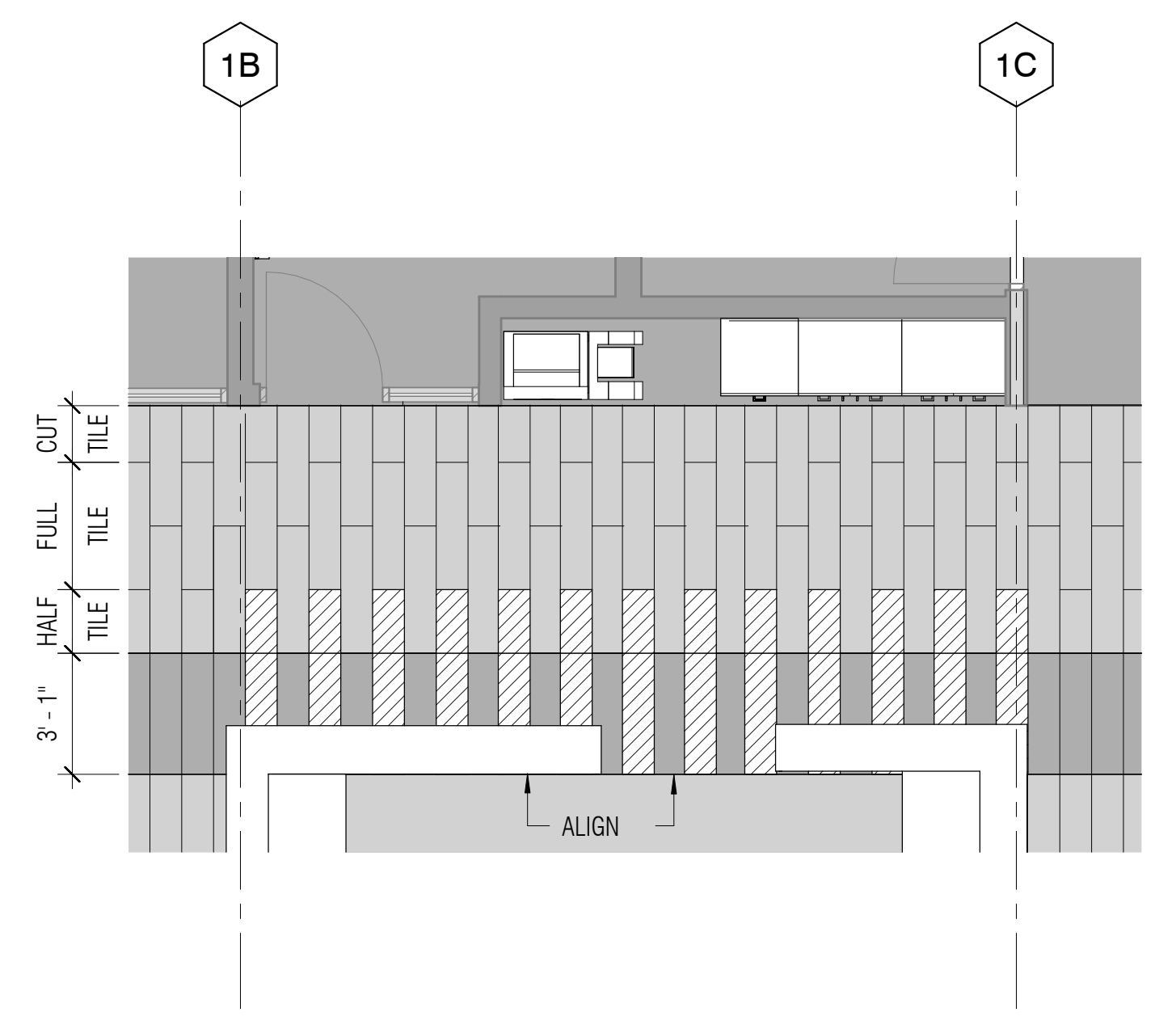
NOLL & TAM
ARCHITECTS

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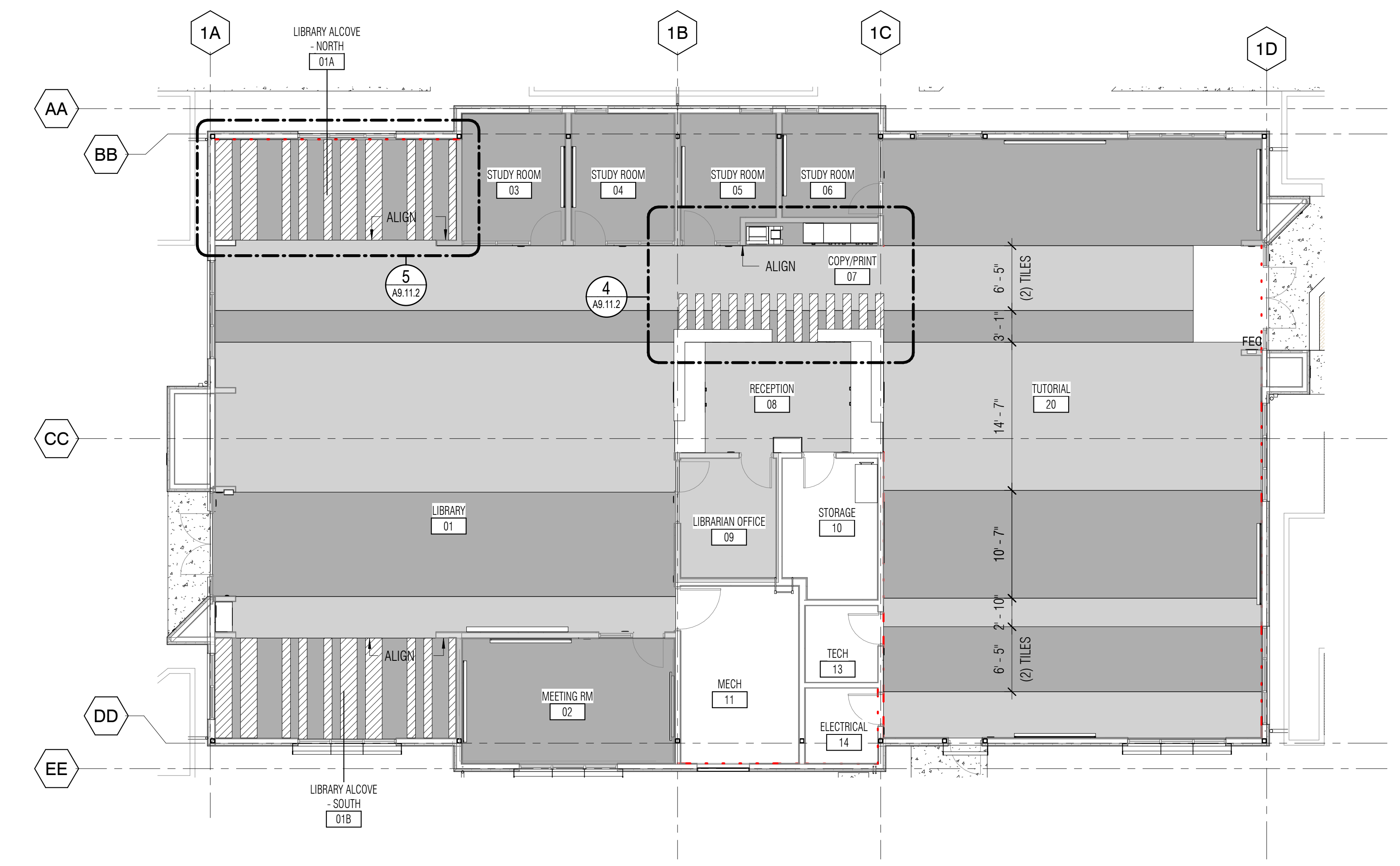
ARCHITECTS SEAL



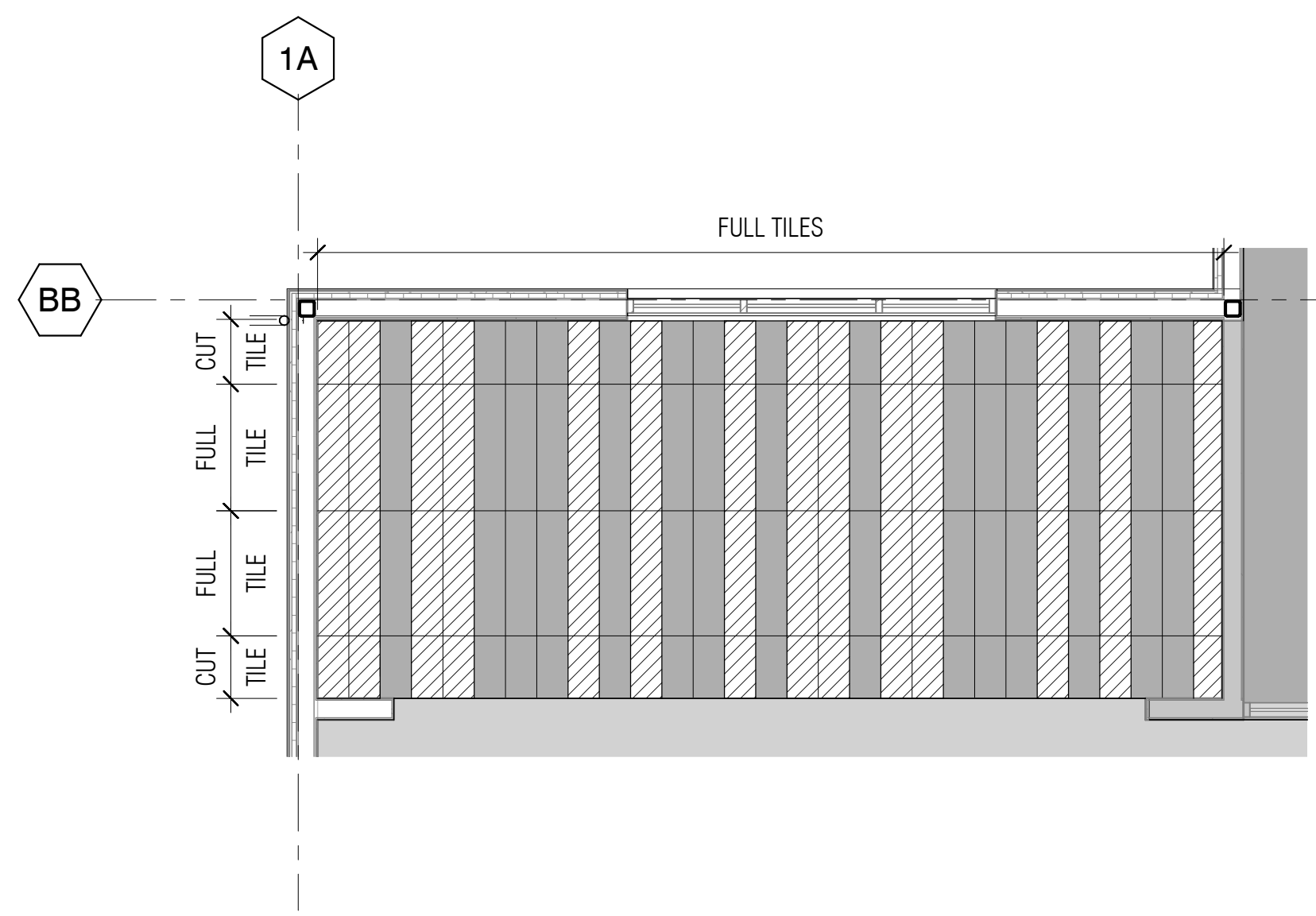
1 01 - FINISH PLAN - CAFE - LEARNING COMMONS
1/8" = 1'-0"



4 CARPET LAYOUT PLAN - RECEPTION
1/4" = 1'-0"



2 01 - FINISH PLAN - LIBRARY LEARNING RESOURCE CENTER
1/8" = 1'-0"



5 CARPET LAYOUT PLAN - ALCOVE
1/4" = 1'-0"

PROJECT TITLE

**CONTRA COSTA
CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION &
RENOVATION**

1690 Watermill Rd.
San Ramon, CA 94582

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ISSUE TITLE

INCREMENT 2

ISSUE DATE 5/30/2019

NOLL & TAM JOB NUMBER 21630

REVISIONS

DATE DESCRIPTION

SHEET TITLE

**FINISH PLAN - CAFE &
LEARNING COMMONS
- LIBRARY LEARNING
RESOURCE CENTER**

SHEET NUMBER

A9.11.2

| LIBRARY LEARNING COMMONS & (E) WEST BUILDING CAFE - ROOM FINISH SCHEDULE | | | | | | |
|--|------------------------|-------------------|-------------|------------------------|-----------------------------|---|
| # | ROOM | FLOOR FINISH | BASE FINISH | WALL FINISH | CEILING FINISH | COMMENTS |
| 01 | LIBRARY | CPT-2,CPT-3 | WB-1 | PT-1 | WD-2, GB-1 | |
| 01A | LIBRARY ALCOVE - NORTH | CPT-2,CPT-3,CPT-4 | WB-1 | PT-1 | WD-2 | |
| 01B | LIBRARY ALCOVE - SOUTH | CPT-2,CPT-3,CPT-4 | WB-1 | PT-1 | WD-2 | |
| 02 | MEETING RM | CPT-3 | WB-1 | PT-1 | ACT-5 | |
| 03 | STUDY ROOM | CPT-3 | WB-1 | PT-1 | ACT-5 | |
| 04 | STUDY ROOM | CPT-3 | WB-1 | PT-1 | ACT-5 | |
| 05 | STUDY ROOM | CPT-3 | WB-1 | PT-1 | ACT-5 | |
| 06 | STUDY ROOM | CPT-3 | WB-1 | PT-1 | ACT-5 | |
| 07 | COPY/PRINT | CPT-2,CPT-3,CPT-4 | WB-1 | PT-1 | ACT-1 | |
| 08 | RECEPTION | CPT-2 | WB-1 | PT-1 | ACT-1 | |
| 09 | LIBRARIAN OFFICE | CPT-2 | WB-1 | PT-1 | ACT-1 | |
| 10 | STORAGE | CF-2 | WB-1 | PT-1 | ACT-1 | |
| 11 | MECH | CF-2 | WB-1 | PT-1 | EXPOSED | |
| 13 | TECH | CF-2 | WB-1 | PT-1 | EXPOSED | |
| 14 | ELECTRICAL | CONCRETE, SEALED | WB-1 | PT-1 | EXPOSED | |
| 20 | TUTORIAL | CPT-2,CPT-3 | WB-1 | PT-1 | WD-2, GB-1 | |
| 101 | LEARNING COMMONS | FF-1 | WB-1 | PT-1, WD-4 | ACT-1 | (E) CEILING GRID SYSTEM TO REMAIN, REPLACE ACOUSTIC CEILING PANELS, AS EQUIURED |
| 102 | SS COORDINATOR | CPT-1 | WB-1 | PT-1 | EXISTING TO REMAIN | |
| 103 | CAFE OFFICE | CPT-1 | WB-1 | PT-1 | EXISTING TO REMAIN | |
| 103A | ELECT | CF-2 | WB-1 | PT-1 | GB-1 | PREPARE (E) CONC SLAB ON GRADE AS REQUIRED FOR ADDITION CONC OF HOUSEKEEPING PAD |
| 104 | JANITOR | FF-3 | FF-3 COVE | WF-1, (E) CERAMIC TILE | PT-2 (OVER EXISTING GYP BD) | SKIM COAT (E) GYP BD @ CEILING TO CREATE SMOOTH SURFACE PRIOR TO PAINTING |
| 107 | CAFE | FF-3 | FF-3 COVE | PT-2 | ACT-4, GB-1 | |
| 108 | CAFE KITCHEN | FF-2 | FF-2 COVE | WF-1, PT-2 | ACT-4 | STAINLESS STEEL PANEL BEHIND AND PERPENDICULAR TO KITCHEN EQUIPMENT, SEE FOOD SERVICE DWG |
| 109 | CAFE STORAGE | FF-2 | FF-2 COVE | WF-1 | ACT-4 | |

RFI #140 - LEARNING COMMONS 101 WALL



RFI #155 - CEMENT PLASTER AT LLRC - KM SW7740 MESSENGER BAG

RFI #231 - JANITOR - FRP FULL HEIGHT WITHIN ROOM AROUND JANITOR SINK, REMAINDER TO BE SEMI-GLOSS ENAMEL OR EPOXY PAINT.

FINISH SCHEDULE NOTES

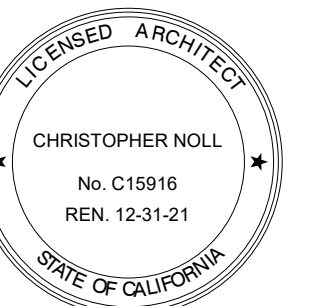
- WHERE NEW PAINTING OCCURS, IT APPLIES TO FULL WALL ELEVATION
- REFER TO SHEET A8.21.2 FOR FINISH TRANSITION DETAILS.
- AT CAFE KITCHEN, CAFE STORAGE AND SEVERY, FLOOR FINISH SHALL EXTEND UP THE TOE-KICK OF CASEWORK AND WALLS AT LEAST 4" MIN. MIN. 3/8" RADIUS AT FLOOR/WALL AND TOE KICK/FLOOR JUNCTURE, INCLUDING INSIDE OF SELF-SERVE SODA DISPENSING AREA.

APPROVALS

NOLL & TAM ARCHITECTS

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ARCHITECTS SEAL



SCHEDULE OF INTERIOR FINISHES

SECTION 03 30 00 - CONCRETE

- CF-1 NOT USED
- CF-2 CONCRETE, SEALED

SECTION 06 41 00 - CUSTOM CASEWORK

PLASTIC LAMINATE:

- PL-1:** LOCATION: CAFE SERVERY; MANUFACTURER: FORMICA; COLOR AND FINISH: MAPLE WOODLINE - NATURELLE FINISH
- PL-2:** LOCATION: LIBRARY RECEPTION DESK & COPY AREA; MANUFACTURER: WILSONART; COLOR AND FINISH: NATURAL RECON 7996-38, FINE VELVET FINISH
- PL-3:** LOCATION: LIBRARY COPY AREA COUNTERTOPS; MANUFACTURER: NEVAMAR; PRODUCT: THRU-COLOR LAMINATE; COLOR AND FINISH: WROUGHT IRON S6054T, TEXTURED

WOOD TRIM:

- WB-3:** SPECIES: RIFT CUT WHITE OAK; FINISH: CLEAR STAIN TO MATCH ARCHITECT'S SAMPLE, LOW-VOC POLYURETHANE

WOOD BASE TRIM:

- WB-3:** SPECIES: RIFT CUT WHITE OAK; FINISH: CLEAR STAIN TO MATCH ARCHITECT'S SAMPLE, LOW-VOC POLYURETHANE

RESIN PANELS:

- MANUFACTURER:** LUMICOR
- PRODUCT:** LUMINOUS
- COLOR:** GLACIER
- GAUGE:** 1/4"
- FRONT FINISH:** MATTE
- BACK FINISH:** MATTE WHITE OPAQUE

SECTION 06 64 00 - PLASTIC PANELING

FRP PANELS:

- WF-1:** MANUFACTURER: MARLITE, CRANE COMPOSITES/KEMLITE OR EQUAL; COLOR: TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE; TEXTURE: SMOOTH

SECTION 09 51 23 - ACOUSTICAL TILE CEILINGS

ACOUSTICAL TILE CEILINGS:

- ACT-1:** MANUFACTURER: ARMSTRONG OR EQUAL; PRODUCT: TO MATCH (E) CAMPUS STANDARD, CIRRUS SECOND LOOK II; EDGE PROFILE: BEVELED TEGULAR; SIZE: 24"x48" (24"x24" SCORED PATTERN); COLOR: WHITE; SUSPENSION SYSTEM: TO MATCH EXISTING CAMPUS STANDARD
- ACT-4:** MANUFACTURER: CERTAINTED OR USG; PRODUCT: VINYLROCK, SHEETROCK BRAND LAY-IN GYP CEILING PANELS; EDGE PROFILE: SQUARE LAY-IN; SIZE: 24"x48"; COLOR: WHITE; SUSPENSION SYSTEM: 15/16" EXPOSED TEE - HEAVY DUTY
- ACT-5:** MANUFACTURER: KINETICS OR EQUAL; PRODUCT: QUIETILE W/ CIRRUS SECOND LOOK II; FACE TILE TO MATCH (E) CAMPUS STANDARD; EDGE PROFILE: BEVELED TEGULAR; SIZE: 24"x48" (24"x24" SCORED PATTERN); COLOR: WHITE; SUSPENSION SYSTEM: TO MATCH EXISTING CAMPUS STANDARD

SECTION 09 54 26 - LINEAR WOOD CEILINGS

WOOD CEILING GRILLE:

- WD-2:** MANUFACTURER: 9 WOOD OR EQUAL; PRODUCT: 1100 CROSS PIECE GRILLE; SPECIES: WESTERN HEMLOCK

SECTION 09 65 00- RESILIENT FLOORING

RESILIENT PLANK FLOORING (LVT):

- FF-1:** MANUFACTURER: MANNINGTON COMMERCIAL, OR EQUAL; PRODUCT: AMTICO ACCESS LVT; COLOR: SHIBORI JASMINE; THICKNESS: 5MM; WEAR LAYER THICKNESS: 20 MIL; SIZE: 5.91"x39.37"; INSTALLATION PATTERN: REFER TO FINISH PLANS FOR PATTERN DIRECTION, RANDOM STAGGER JOINTS W/ MINIMUM 6" OFFSET FROM END OF ADJACENT PLANK

RESILIENT SHEET FLOORING:

- FF-2:** MANUFACTURER: ALTRO FLOORS, OR EQUAL; PRODUCT: STRONGHOLD 30; COLOR: CANNON-K30911; THICKNESS: 3MM; SEAMS: HEAT WELDED; BASE: COVED

FF-3:

- MANUFACTURER:** ARMSTRONG, OR EQUAL
- PRODUCT:** MEDINTONE
- COLOR:** H8310 ROCK BROWN
- THICKNESS:** 2.00MM
- SEAMS:** HEAT WELDED
- BASE:** COVED

SECTION 09 65 13.13- RESILIENT BASE

RESILIENT WALL BASE:

- WB-1:** MANUFACTURER: BURKE, ROPPE, OR EQUAL; PRODUCT: BURKE BASE TYPE TS; COLOR: TBD; HEIGHT: 4 INCHES; PROFILE: COVED (TOE)

RESILIENT ACCESSORIES:

- MANUFACTURER:** BURKE, ROPPE, OR EQUAL
- COLORS:** TO MATCH BASE, UON

SECTION 09 68 13 - TILE CARPETING

CARPET TILE:

- CPT-1:** MANUFACTURER: INTERFACE; PATTERN: CUBIC; STYLE #: 1380-102500; COLOR: SHAPE 4287; SIZE: 50 CM X 50 CM MODULAR; BACKING: GLASBAC; DYE METHOD: 100% SOLUTION DYED; INSTALLATION METHOD: RANDOM
- CPT-2:** MANUFACTURER: INTERFACE OR EQUAL; PATTERN: WORLD WOVEN WW880; STYLE #: 28200AK00; COLOR: CHARCOAL LOOM 105361; SIZE: 25 CM X 1 M; BACKING: GLASBAC; DYE METHOD: 100% SOLUTION DYED; INSTALLATION METHOD: ASHLAR
- CPT-3:** MANUFACTURER: INTERFACE OR EQUAL; PATTERN: WORLD WOVEN WW870; STYLE #: 38930AK00; COLOR: CHARCOAL WEFT 105345; SIZE: 25 CM X 1 M; BACKING: GLASBAC; DYE METHOD: 100% SOLUTION DYED; INSTALLATION METHOD: ASHLAR
- CPT-4:** MANUFACTURER: INTERFACE OR EQUAL; PATTERN: WORLD WOVEN WW880; STYLE #: 28200AK00; COLOR: SISAL LOOM 105366; SIZE: 25 CM X 1 M; BACKING: GLASBAC; DYE METHOD: 100% SOLUTION DYED; INSTALLATION METHOD: REFER TO FINISH PLANS

SECTION 09 90 00 - PAINTING AND COATING

TYPICAL INTERIOR PAINT FINISHES:

- CEILINGS & SOFFITS: FLAT
- WALLS: EGGSHELL
- TOILET ROOM, CUSTODIAL ROOM WALLS: SEMI-GLOSS
- PAINTED DOORS & FRAMES: SEMI-GLOSS

INTERIOR PAINT COLORS:

- PT-1 (INTERIOR GENERAL, EGGSHELL):** COLOR TO MATCH (E) CAMPUS STANDARD
- PT-2 (INTERIOR GENERAL, SEMIGLOSS):** COLOR TO MATCH (E) CAMPUS STANDARD
- PT-3:** NOT USED
- PT-4:** NOT USED
- PT-5:** NOT USED
- PT-6 (INTERIOR HOLLOW METAL DOOR FRAME):** TBD, SEE DOOR SCHEDULE
- PT-7 (INTERIOR ACCENT):** TBD

SECTION 10 11 00 - VISUAL DISPLAY SURFACES

MARKERBOARDS:

- MANUFACTURER:** CLARIDGE OR EQUAL
- PRODUCT:** CONCEPT SERIES
- MATERIAL:** PORCELAIN ENAMEL STEEL
- COLOR:** WHITE
- FRAME SIZE:** 5/16"
- FRAME FINISH:** ANODIZED ALUMINUM
- SIZE:** REFER TO DRAWINGS
- ACCESSORIES:** FULL LENGTH TRAY AT BOTTOM
- MOUNTING:** CONCEALED WALL BRACKETS

TACKBOARDS:

- MANUFACTURER:** CLARIDGE OR EQUAL
- PRODUCT:** CONCEPT SERIES
- FINISH:** CLARIDGE CORK
- COLOR:** AS SELECTED BY ARCHITECT FROM MANUFACTURERS FULL RANGE
- FRAME SIZE:** 5/16"
- FRAME FINISH:** ANODIZED ALUMINUM
- SIZE:** VARIES, REFER TO DRAWINGS
- MOUNTING:** CONCEALED WALL BRACKETS

SECTION 12 24 00 - WINDOW SHADES

ROLLER WINDOW SHADES:

- S-1:** MANUFACTURER: MECHOSHADE OR EQUAL; SHADE CLOTH: ECOVELL; OPENNESS FACTOR: 3% OPEN AT NORTH, EAST, WEST 5% OPEN AT SOUTH; CLOTH COLOR: AS SELECTED BY ARCHITECT; FASCIA/TRIM COLOR: AS SELECTED BY ARCHITECT FROM MANUFACTURERS FULL RANGE; MOUNTING METHOD: REFER TO DRAWINGS

RFI #236 - SERVERY - BACKSPASH MATCHING COUNTERTOP - 3CM

VERIFY OPENNESS FACTOR WITH OWNER PRIOR TO ORDERING

SECTION 12 36 61.16 - SOLID SURFACING COUNTERTOPS

QUARTZ SOLID SURFACING:

- SS-1 (LIBRARY):** MANUFACTURER: SILESTONE OR EQUAL; PRODUCT/COLOR: MARENGO 3CM
- SS-1 (LIBRARY ALTERNATE):** MANUFACTURER: DUPONT; PRODUCT: CORIAN CARBON CONCRETE
- SS-2 (CAFE):** MANUFACTURER: DUPONT; PRODUCT: CORIAN QUARTZ (ZODIAQ); COLOR: SNOW FLURRY; THICKNESS: 3CM

SECTION 12 48 13.13 - ENTRANCE FLOOR MATS

ENTRANCE FLOORING GRILLE:

- MANUFACTURER:** MATS INC.
- PRODUCT:** SOFT GRID
- COLOR:** BLACK

SHEET TITLE
FINISH SCHEDULES

SHEET NUMBER

A9.13.2

DETAIL NUMBER
SHEET NUMBER

ROOM/WAYFINDING ID SIGNAGE

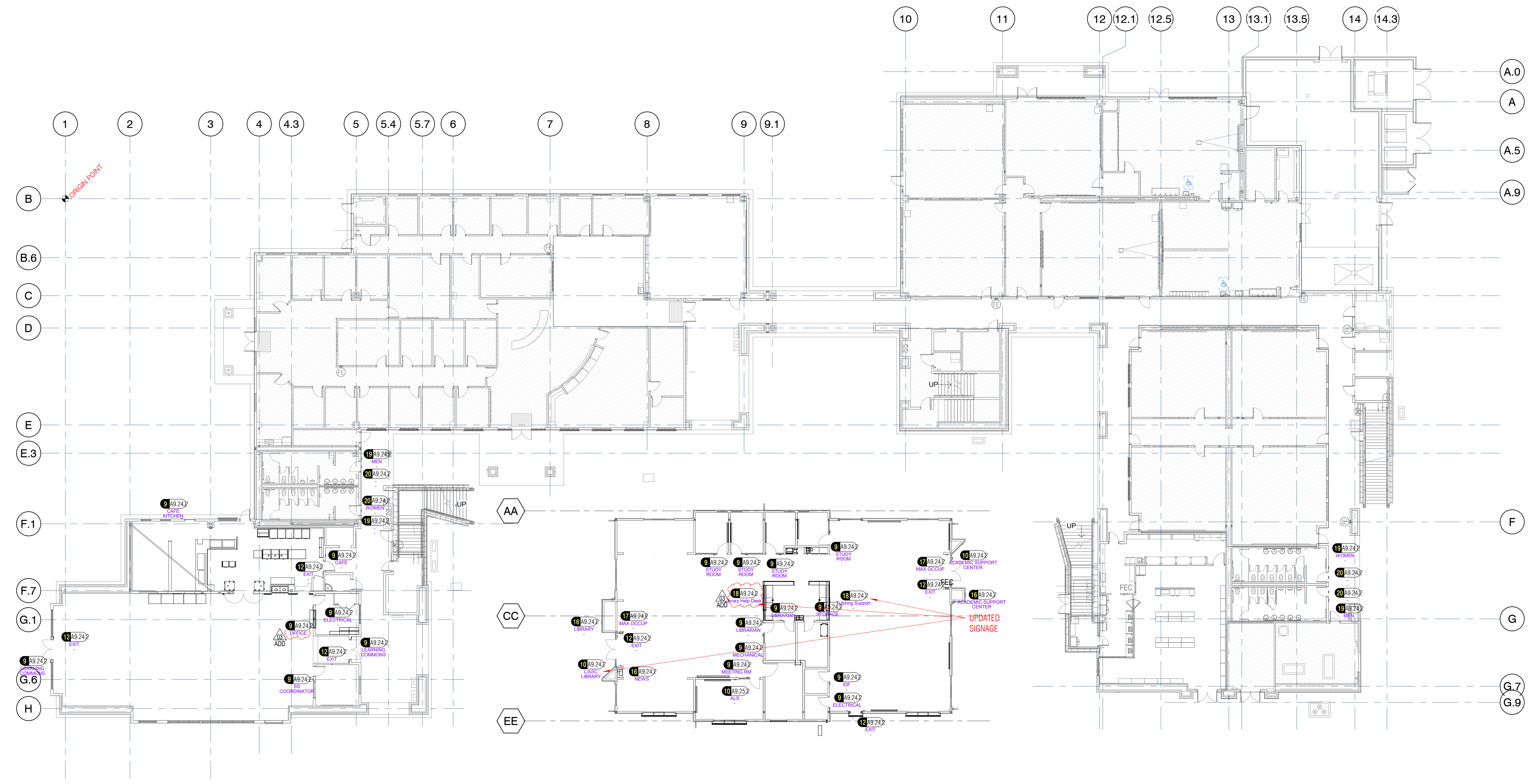
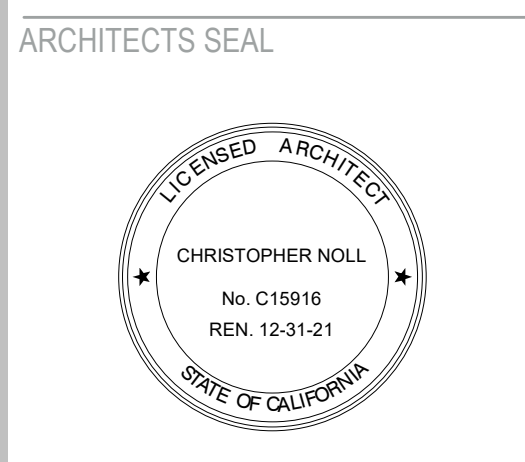
NO SIGNAGE WORK IN THIS AREA

NOTE:
INCREMENT 2 COVERS RESTROOM MODIFICATIONS INCLUDING NEW SIGNAGE. RESTROOM SIGNAGE WILL NOT BE UPGRADED AS PART OF INCREMENT 1. RESTROOM SIGNAGE SHOWN ON 9.25.1 IS FOR REFERENCE ONLY.

APPROVALS

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Berkeley, CA 94710
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fax 510.542.2201



1 01 - FLOOR PLAN - OVERALL - SIGNAGE - LLRC- CAFE- LC
1/16" = 1'-0"

PROJECT TITLE

**CONTRA COSTA
CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION &
RENOVATION**

1690 Watermill Rd.
San Ramon, CA 94582

RECORD SET:
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ISSUE TITLE

INCREMENT 2

ISSUE DATE 5/30/2019
NOLL & TAM JOB NUMBER 21630

| REVISIONS | DATE | DESCRIPTION |
|-----------|---------|---------------------|
| △ | 8/27/19 | INC 2 - ADDENDUM 03 |

SHEET TITLE

**SIGNAGE PLAN - 1ST
FLOOR - LLRC - CAFE -
LEARNING COMMONS**

SHEET NUMBER

A9.21.2

SIGNAGE GENERAL NOTES

- WHERE PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE TO THE LATCH SIDE OF THE DOOR, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHEN TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. MOUNTING LOCATION FOR SUCH SIGNAGE SHALL BE SO THAT A PERSON MAY APPROACH WITHIN 3" OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR. MOUNTING HEIGHT SHALL BE PER DETAIL 3 / A9.24.1
- ALL INTERIOR SIGNS SHALL BE 1/8" THICK MINIMUM. (UON)
- ALL EXTERIOR SIGNS SHALL BE 1/4" THICK MINIMUM. (UON)
- RAISED CHARACTERS: ALL TACTILE SIGNS (SIGNS WHICH INCLUDE BRAILLE) SHALL HAVE THE SIGN LETTERING THAT COMPLY WITH CBC 11B-703.2 AND SHALL BE DUPLICATED IN BRAILLE COMPLYING WITH CBC 11B-703.3. RAISED CHARACTERS SHALL BE INSTALLED IN ACCORDANCE WITH CBC 11B-703.4.
 - DEPTH: RAISED 1/32"
 - CASE: LETTER CHARACTERS TO BE UPPERCASE
 - STYLE: AVENIR MEDIUM, (SANS SERIF) (UON). SEE SIGNAGE DETAIL FOR ADDITIONAL INFO
 - CHARACTER PROPORTIONS, STROKE THICKNESS, SPACING, LINE SPACING AND FORMAT TO MEET CBC 11B-703.2.
 - CHARACTER HEIGHT: SHALL BE 5/8" MIN. TO 2" MAX. IN HEIGHT. USE LARGEST LETTER HEIGHT PRACTICAL. (UON) VERIFY ALL TEXT SIZES PRIOR TO FABRICATION.
- PER CBC TABLE 11B-703.3.1: CONTRACTED CALIFORNIA (GRADE 2) BRAILLE SHALL BE USED WHENEVER BRAILLE SYMBOLS ARE REQUIRED.
 - DIMENSIONS AND CAPITALIZATION: REFER TO DETAIL 8 / A9.24.2 FOR DIMENSIONS. CAPITALIZATION TO MEET CBC 11-703.1.
 - FOR BRAILLE POSITION, INSTALLATION HEIGHT AND LOCATION REQUIREMENTS ON THE SIGN SEE PICTOGRAM FIELD. PICTOGRAMS SHALL HAVE A FIELD HEIGHT OF 6" MINIMUM. CHARACTERS AND BRAILLE SHALL NOT BE LOCATED IN THE PICTOGRAM FIELD.
- PICTOGRAMS SHALL HAVE TEXT DESCRIPTORS LOCATED DIRECTLY BELOW THE PICTOGRAM FIELD.
- ALL CHARACTERS, PICTOGRAMS & THE FIELD UPON WHICH THEY ARE PLACED ARE TO BE OF A NON-GLARE FINISH AND SHALL CONTRAST WITH THEIR BACKGROUND, EITHER LIGHT ON DARK OR DARK ON LIGHT.
- ASSISTIVE LISTENING SYSTEMS: SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESS FOR HEARING LOSS.
- EDGES AND VERTICES ON GEOMETRIC SYMBOLS: EDGES SHALL BE EASED OR ROUNDED AT 1/16" INCH MIN. OR CHAMFERED AT 1/8" MAX. SEE DETAIL.
- ALL SIGNS SHALL HAVE ALL EDGES EASED.
- SUBMIT A DRAWING SET FOR APPROVAL WHICH IDENTIFIES SIGNAGE TYPES, MATERIALS & FINISHES, LOCATIONS, ROOM NUMBERS, TEXT & ORIENTATION OF DIRECTIONAL ARROWS TO OWNER & ARCHITECT PRIOR TO FABRICATION.
- ALL SIGNS SHALL BE MOUNTED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
- ALL EXTERIOR MOUNTED SIGNS TO BE RATED FOR EXTERIOR USE BY MANUFACTURER.
- ALL PLASTIC SIGNS ADHESIVELY APPLIED TO GLASS SHALL HAVE AN ADDITIONAL PLASTIC BACKING THE SAME SIZE AS THE SIGN ALIGNED AND ADHESIVELY APPLIED TO THE OTHER SIDE OF THE GLASS.
- GRAPHIC LAYOUT, FONTS, COLOR, AND MATERIALS OF SIGNAGE TO COMPLY WITH DISTRICT STANDARDS.
- CODE-GOVERNED SIGNS TO BE FIELD INSPECTED PER CBC 11B.703.1.2.

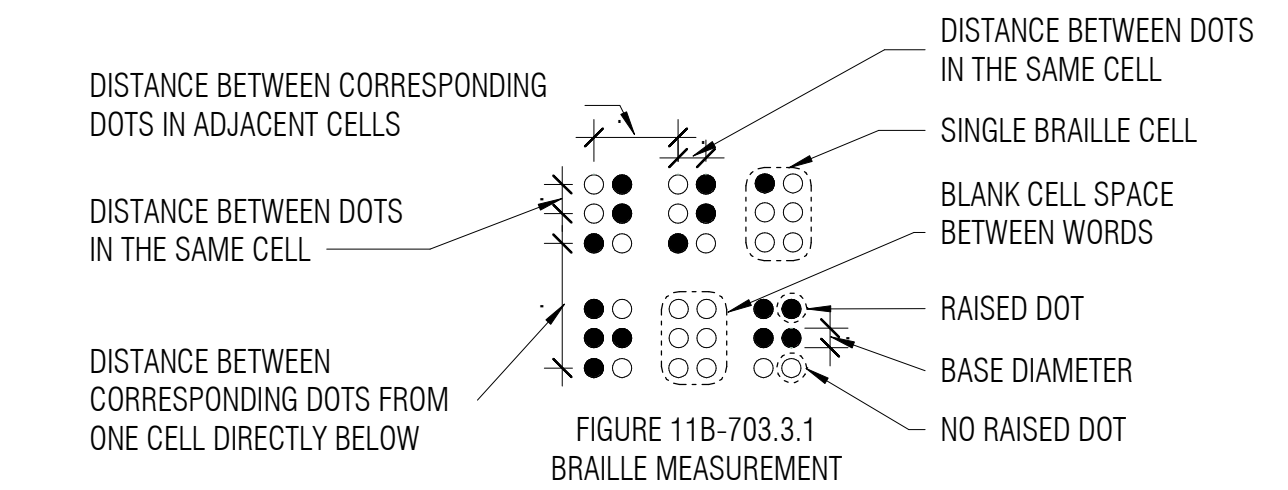
TYPICAL SIGN FINISHES (UON):

PANEL FINISH: -70% CONTRASTING COLOR TO MATCH DISTRICT STANDARDS.
 NON-GLARE FINISH
 GRAPHIC METHOD: -SCREEN PROCESS
 GRAPHIC COLOR: -BONE WHITE, NON-GLARE FINISH

TABLE 11B-703.3.1 BRAILLE DIMENSIONS

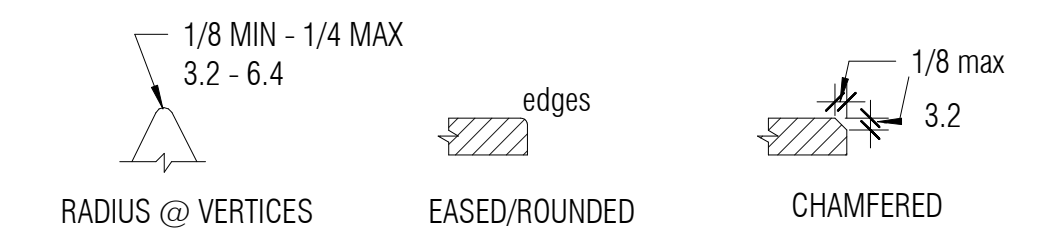
| MEASUREMENT RANGE | MINIMUM IN INCHES | MAXIMUM IN INCHES |
|---|-------------------|-------------------|
| DOT BASE DIAMETER | 0.059 (1.5MM) | 0.063 (1.6MM) |
| DISTANCE BETWEEN TWO DOTS IN THE SAME CELL ¹ | 0.100 (2.5MM) | |
| DISTANCE BETWEEN CORRESPONDING DOTS IN ADJACENT CELLS ¹ | 0.309 (7.8MM) | |
| DOT HEIGHT | 0.025 (0.6MM) | 0.027 (0.9MM) |
| DISTANCE BETWEEN CORRESPONDING DOTS FROM ONE CELL DIRECTLY BELOW ¹ | 0.395 (10MM) | 0.400 (10.2MM) |

1. MEASURED CENTER TO CENTER.

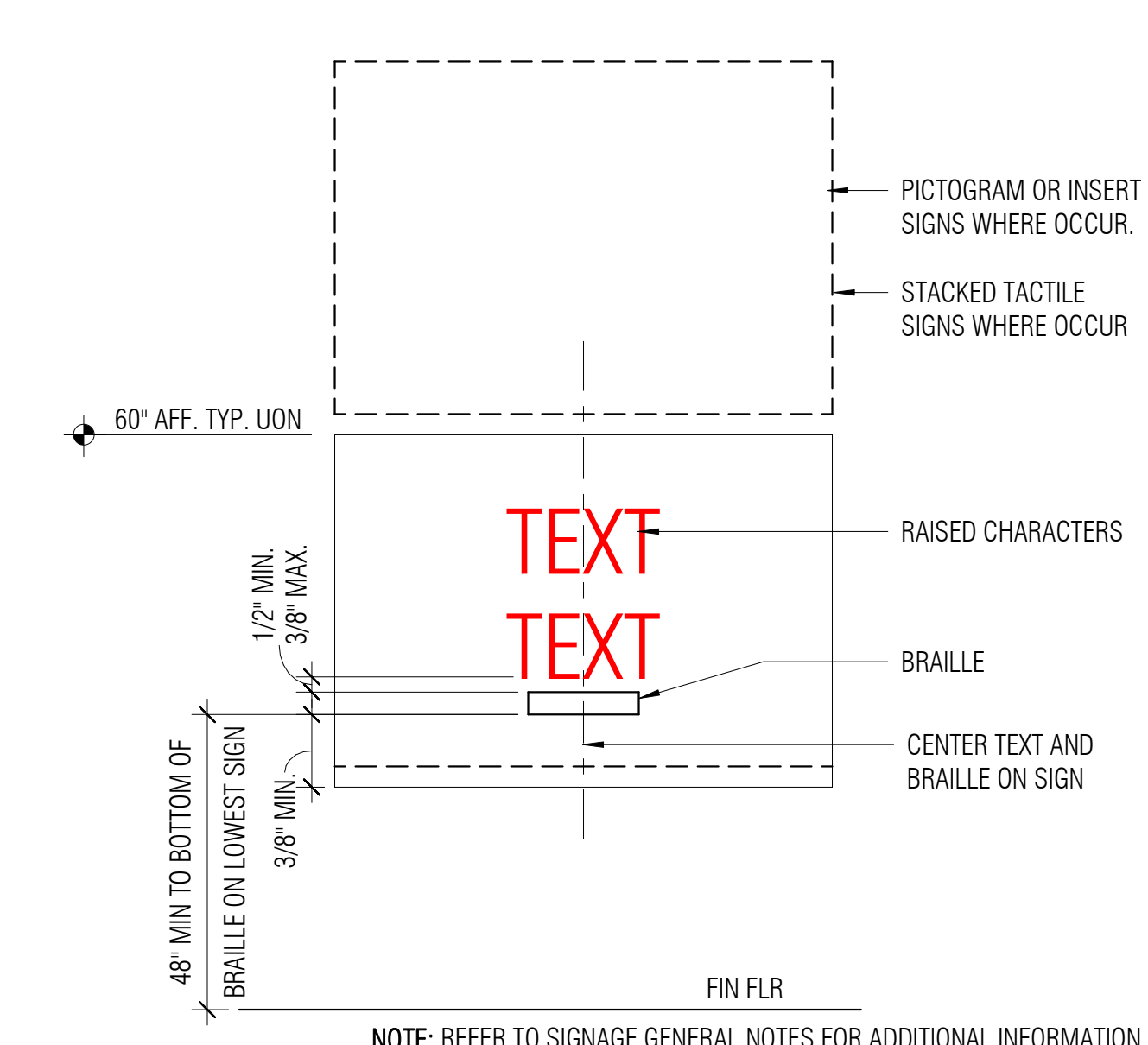


1 BRAILLE DIMENSIONS (REFERENCE)

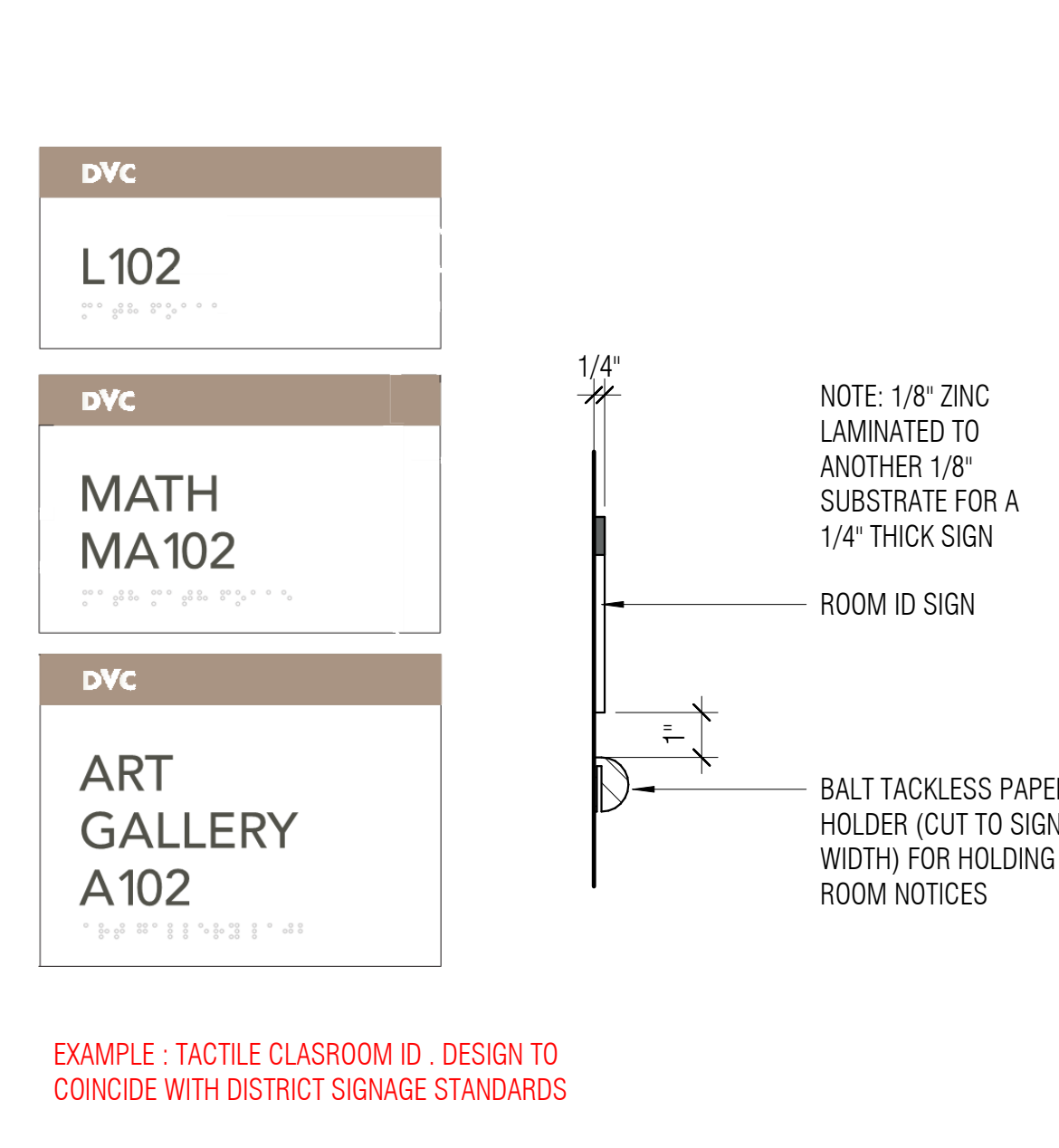
11B-703.2.6.4 EDGES AND VERTICES ON GEOMETRIC SYMBOLS. EDGES SHALL BE EASED OR ROUNDED AT 1/16 INCH (1.59 mm) MINIMUM, OR CHAMFERED AT 1/8 INCH (3.2 mm) MAXIMUM. VERTICES SHALL BE RADIUS BETWEEN 1/8 INCH (3.2mm) MINIMUM AND 1/4 INCH (6.4mm) MAXIMUM.



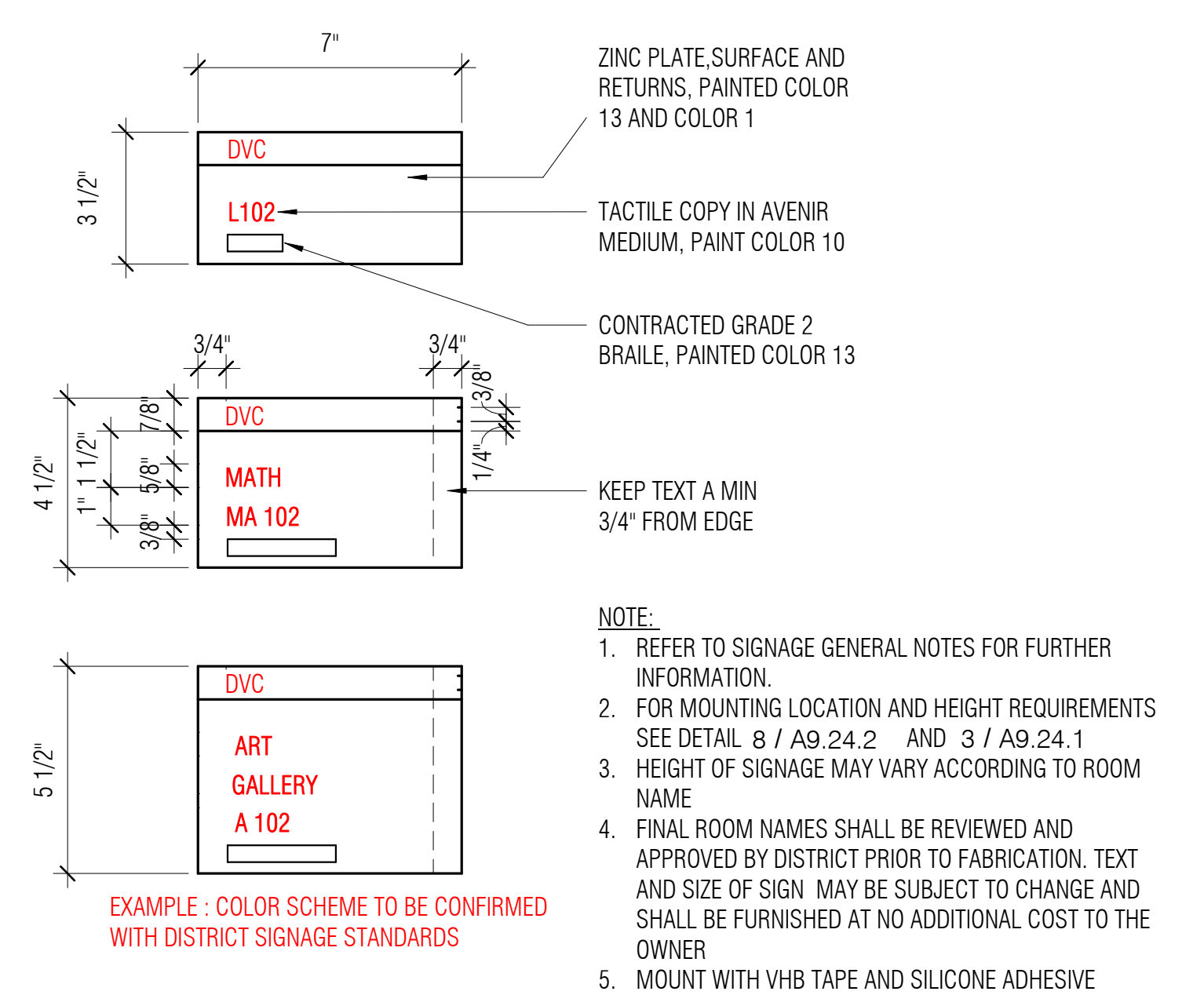
2 ACCESSIBLE SIGN - GEOMETRIC SYMBOLS



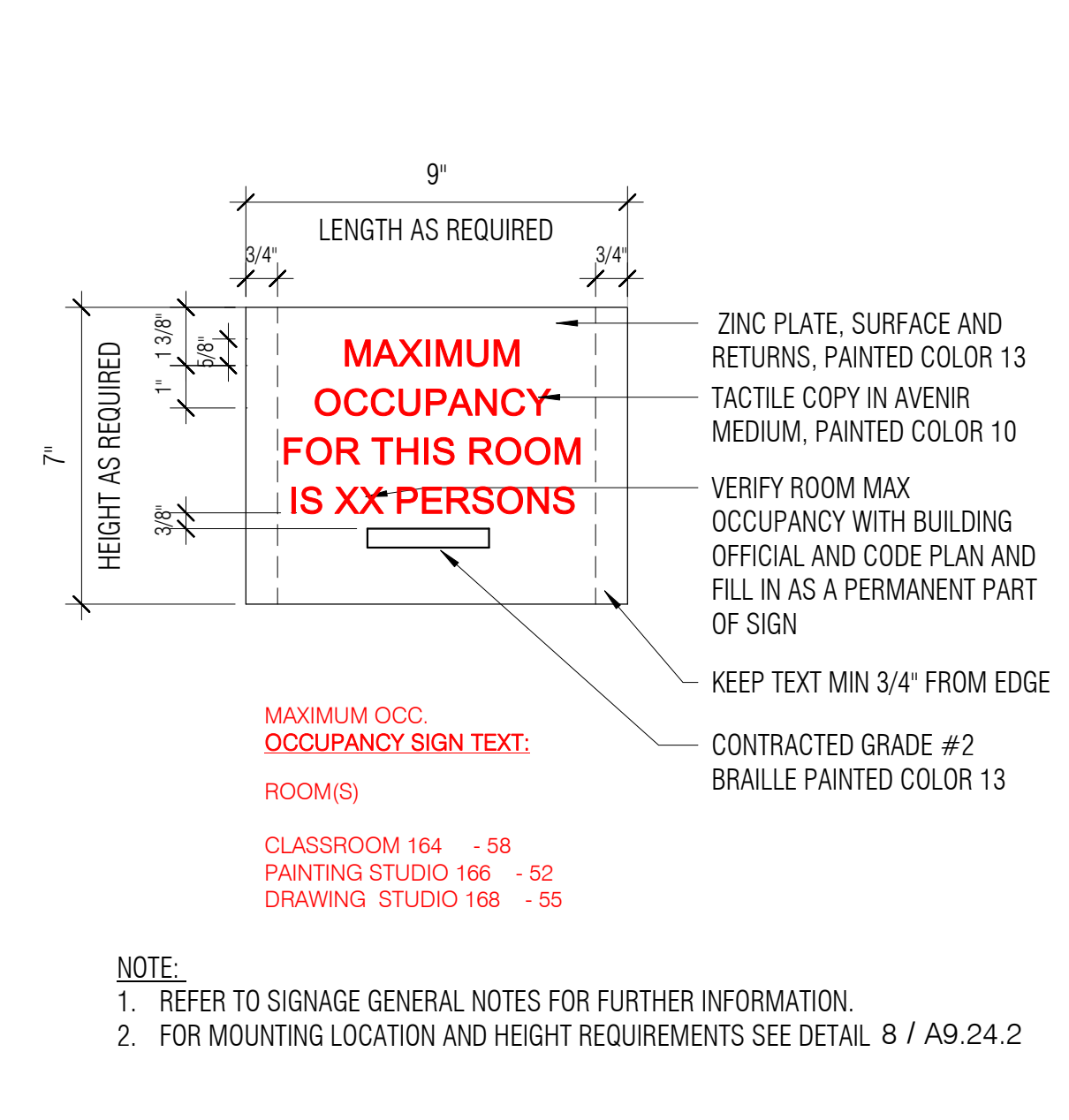
3 TACTILE SIGNAGE MOUNTING HT



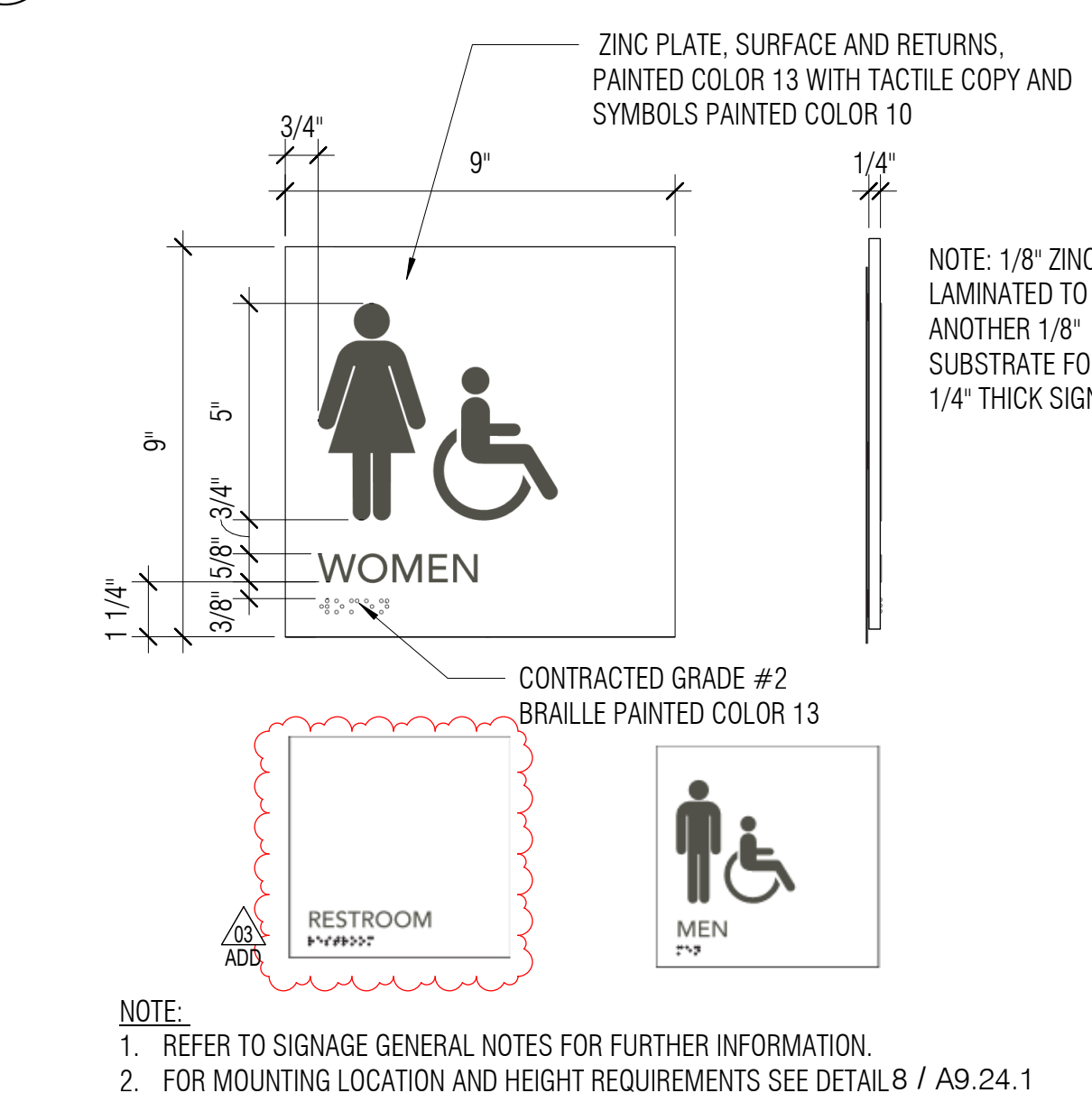
EXAMPLE: TACTILE CLASSROOM ID. DESIGN TO COINCIDE WITH DISTRICT SIGNAGE STANDARDS



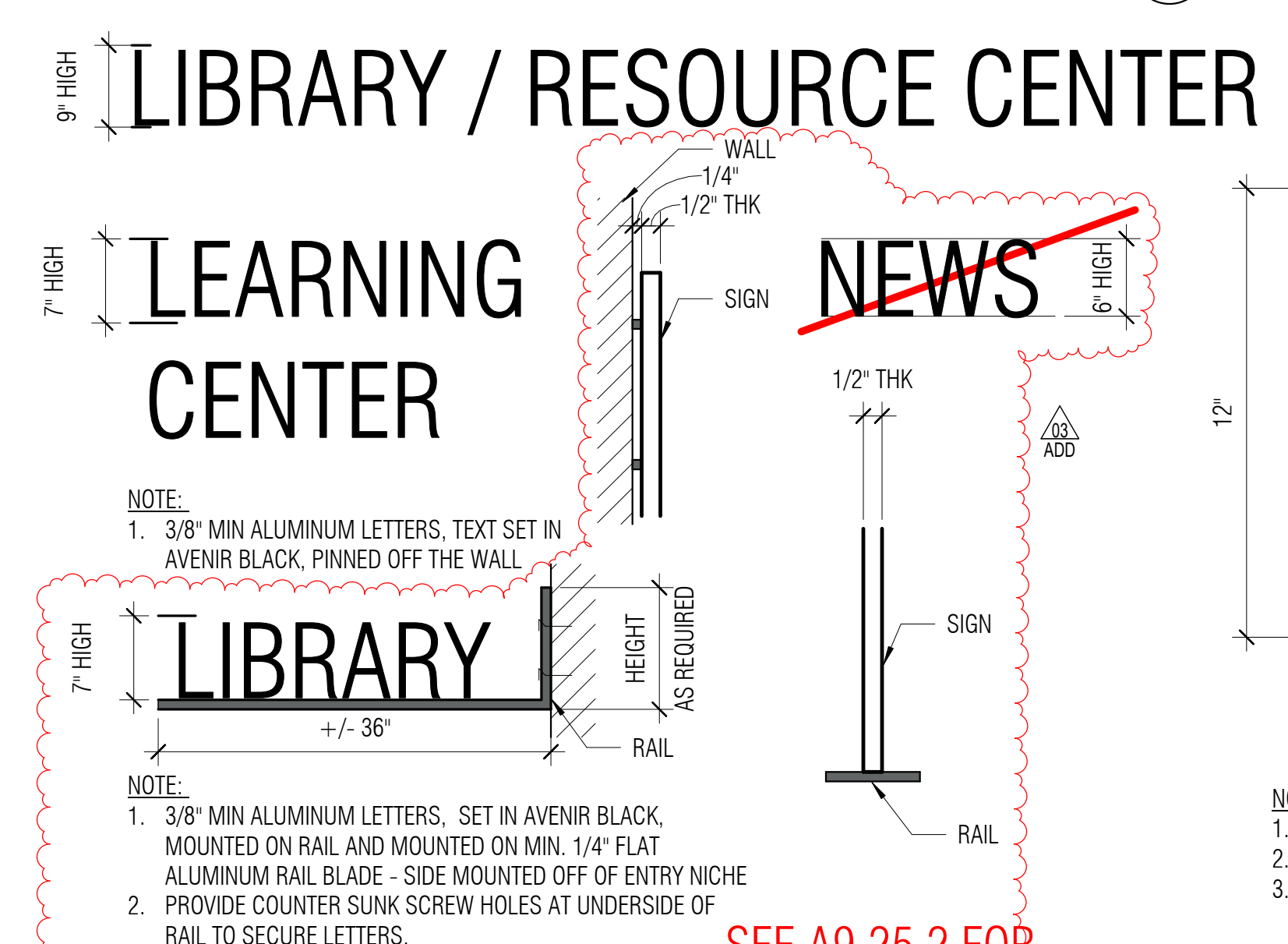
EXAMPLE: TACTILE ID SIGN. DESIGN TO COINCIDE WITH DISTRICT SIGNAGE STANDARDS



17 MAX OCCUPANCY SIGN

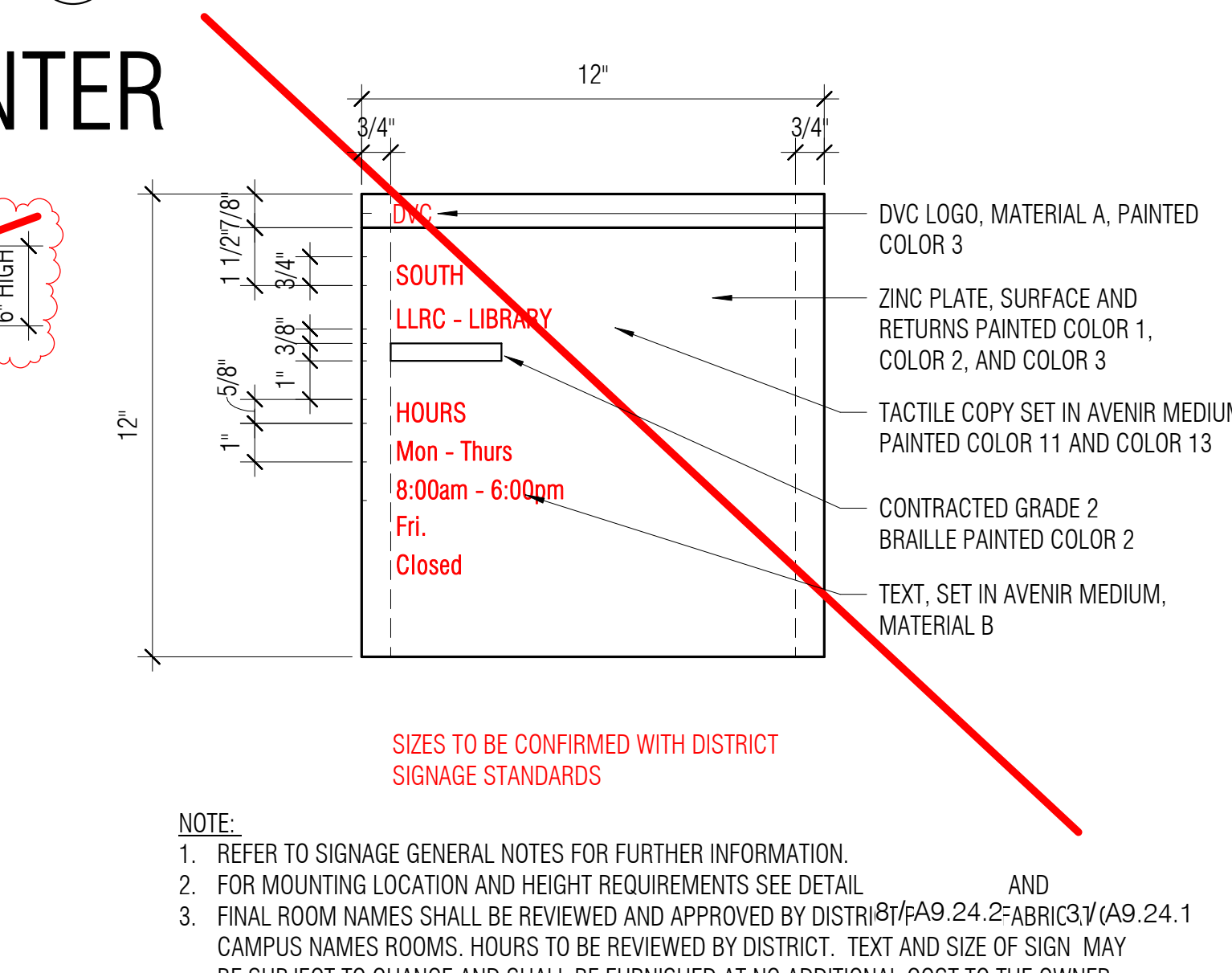


19 RESTROOM SIGNAGE



16 ROOM TITLE ON BUILDING

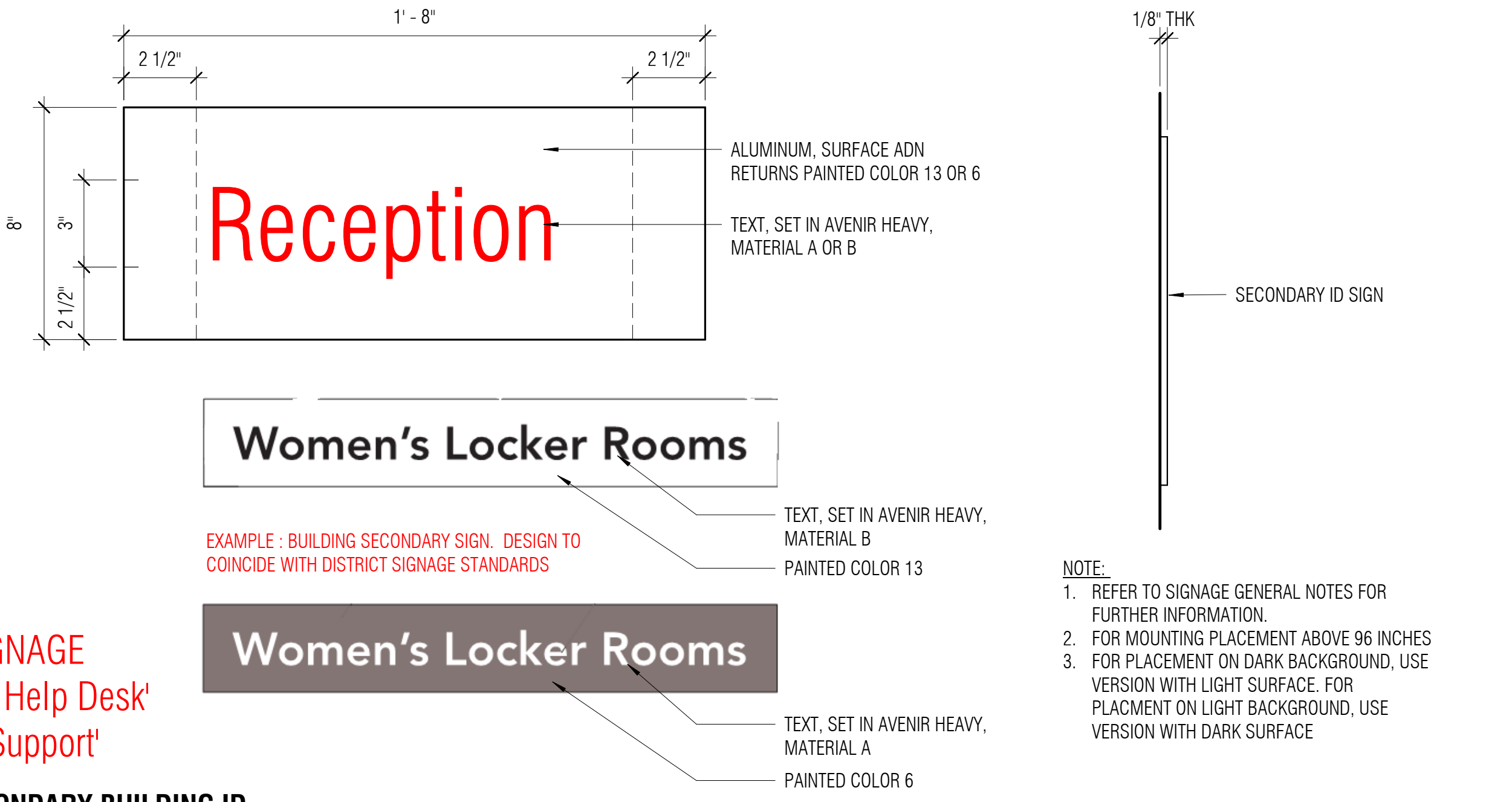
9 CLASSROOM NAME/NUMBER



10 ROOM ID HOURS

SEE A9.25.2 FOR UPDATED ROOM ID SIGNAGE

18 SECONDARY BUILDING ID

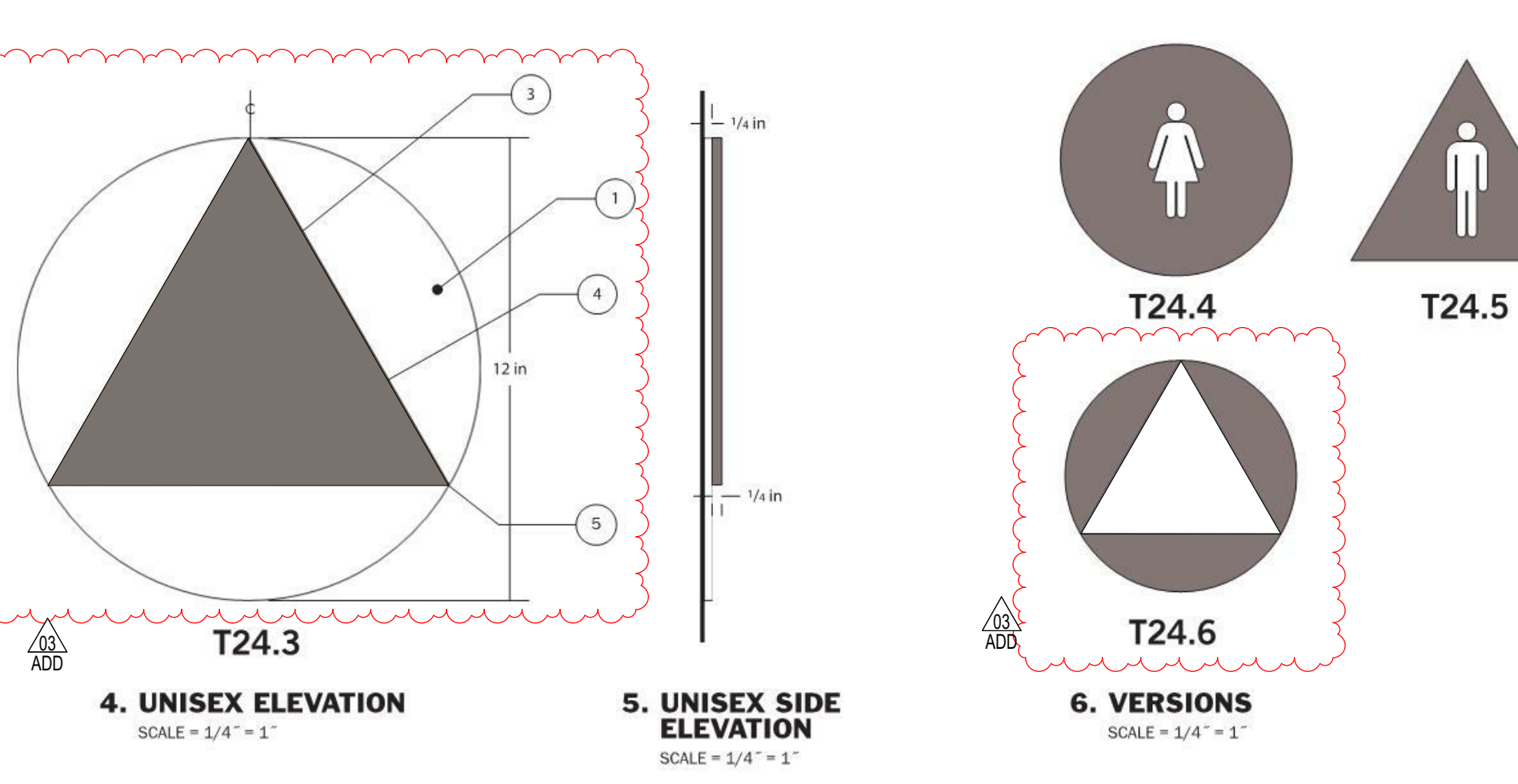
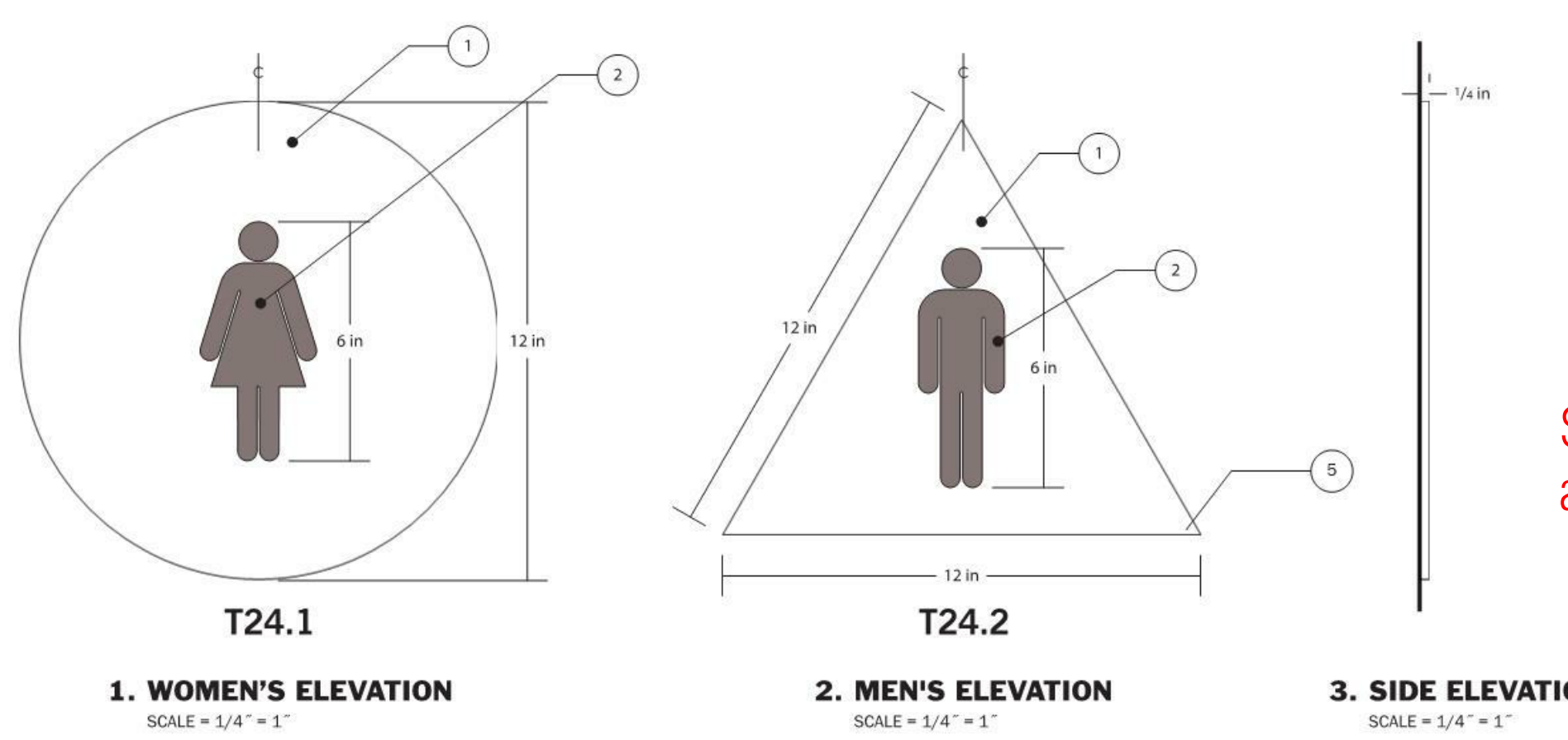


UPDATED SIGNAGE SAYS 'Library Help Desk' and 'Tutoring Support'

- ACRYLIC PANEL SURFACE AND RETURNS PAINTED COLOR 13
- SURFACE APPLIED SILK SCREENED SYMBOL, COLOR 6
- ACRYLIC PANEL SURFACE AND RETURNS PAINTED COLOR 6
- SURFACE APPLIED SILK SCREEN SYMBOLS, COLOR 13
- 1/8" RADIUS ROUNDED COLORS

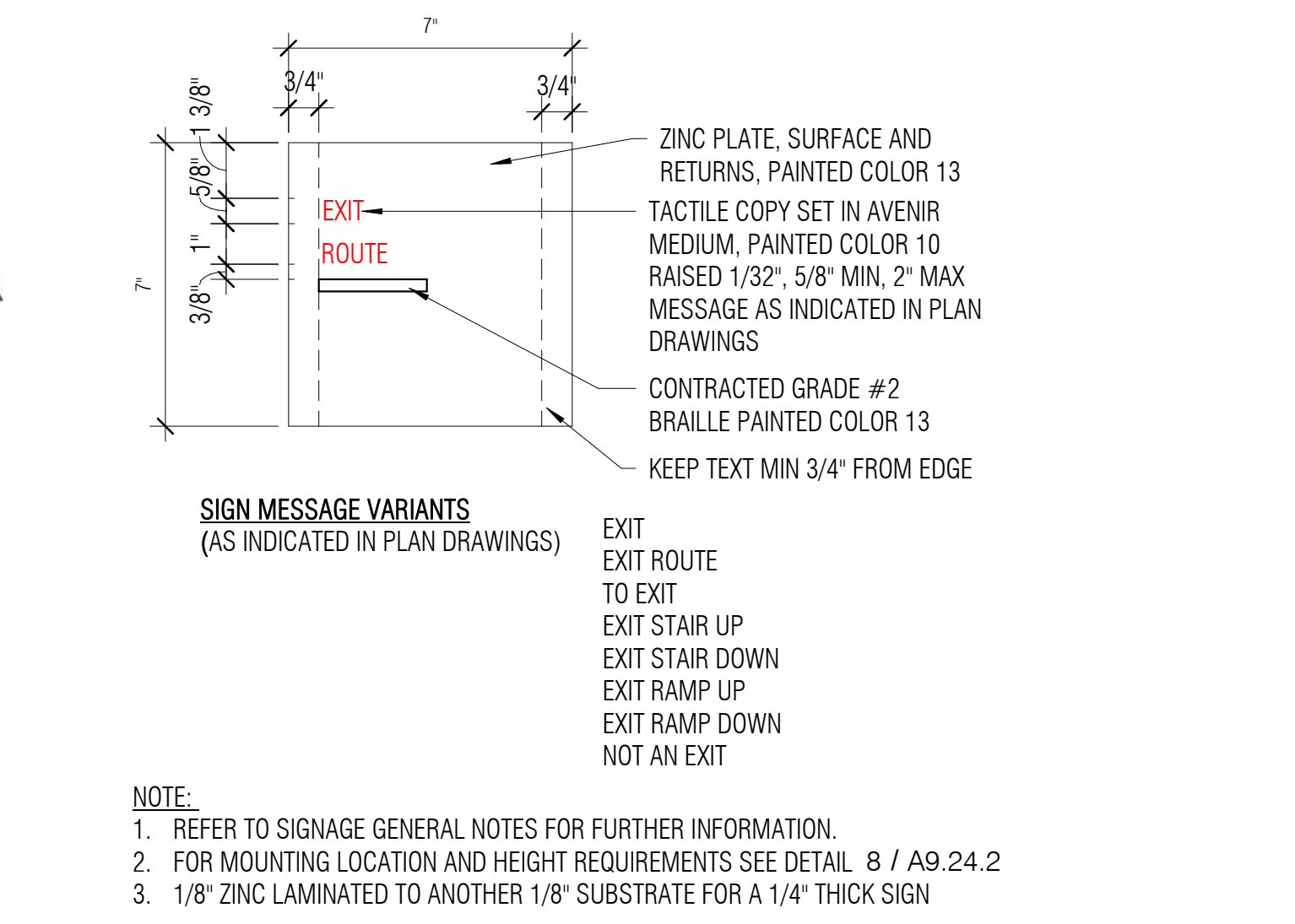
T24 SIGNS IDENTIFY RESTROOMS AND ARE TO BE PLACED ON DOORS LEADING INTO SPACE. USE DARK SIGNS ON LIGHT COLORED DOORS. COLORS ON SIGN ARE REVERSED

- REFER TO SIGNAGE GENERAL NOTES FOR FURTHER INFORMATION.
- FOR MOUNTING LOCATION AND HEIGHT REQUIREMENTS SEE DETAIL 8 / A9.24.2

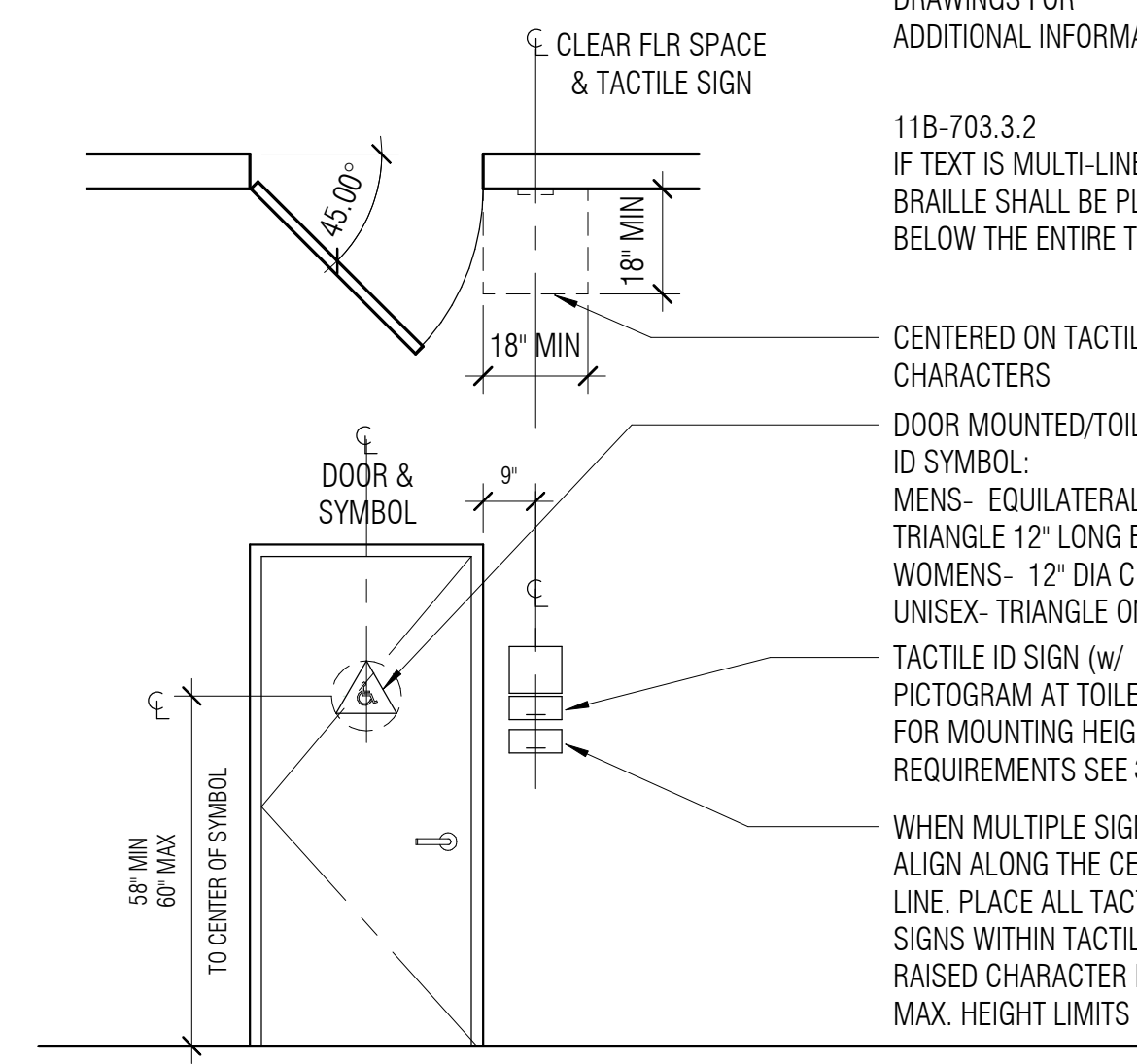


20 RESTROOM SIGNAGE

12 TACTILE EXIT SIGN



8 SIGNAGE AT DOORS



3 TACTILE SIGNAGE MOUNTING HT

APPROVALS

NOLL & TAM ARCHITECTS

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Berkeley, CA 94710
tel 510.542.2200
fax 510.542.2201

ARCHITECTS SEAL

LEARNED ARCHITECT
CHRISTOPHER NOLL
No. C15916
REN. 12-31-21
STATE OF CALIFORNIA

PROJECT TITLE

CONTRA COSTA CCD D-4002 DVC SAN RAMON CAMPUS EXPANSION & RENOVATION

1690 Watermill Rd.
San Ramon, CA 94582

RECORD SET:

THESE DRAWINGS HAVE BEEN PREPARED FROM ADDENDUMS, CCD'S, ASIS AND SELECT RFIS OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM. ONLY A SELECT FEW AS-BUILTS WERE SUBMITTED.

ISSUE TITLE

INCREMENT 2

ISSUE DATE: 5/30/2019

NOLL & TAM JOB NUMBER: 21630

REVISIONS

| DATE | DESCRIPTION |
|---------|---------------------|
| 8/27/19 | INC 2 - ADDENDUM 03 |

SHEET TITLE

SIGNAGE DETAILS

SHEET NUMBER

A9.24.2

KEY NOTES

| Key Value | Keynote Text |
|-----------|--|
| 06-07 | NEW 42" HIGH WOOD BOOK SHELVING UNIT WITH SLOPED DISPLAY SHELVES |

GENERAL NOTES

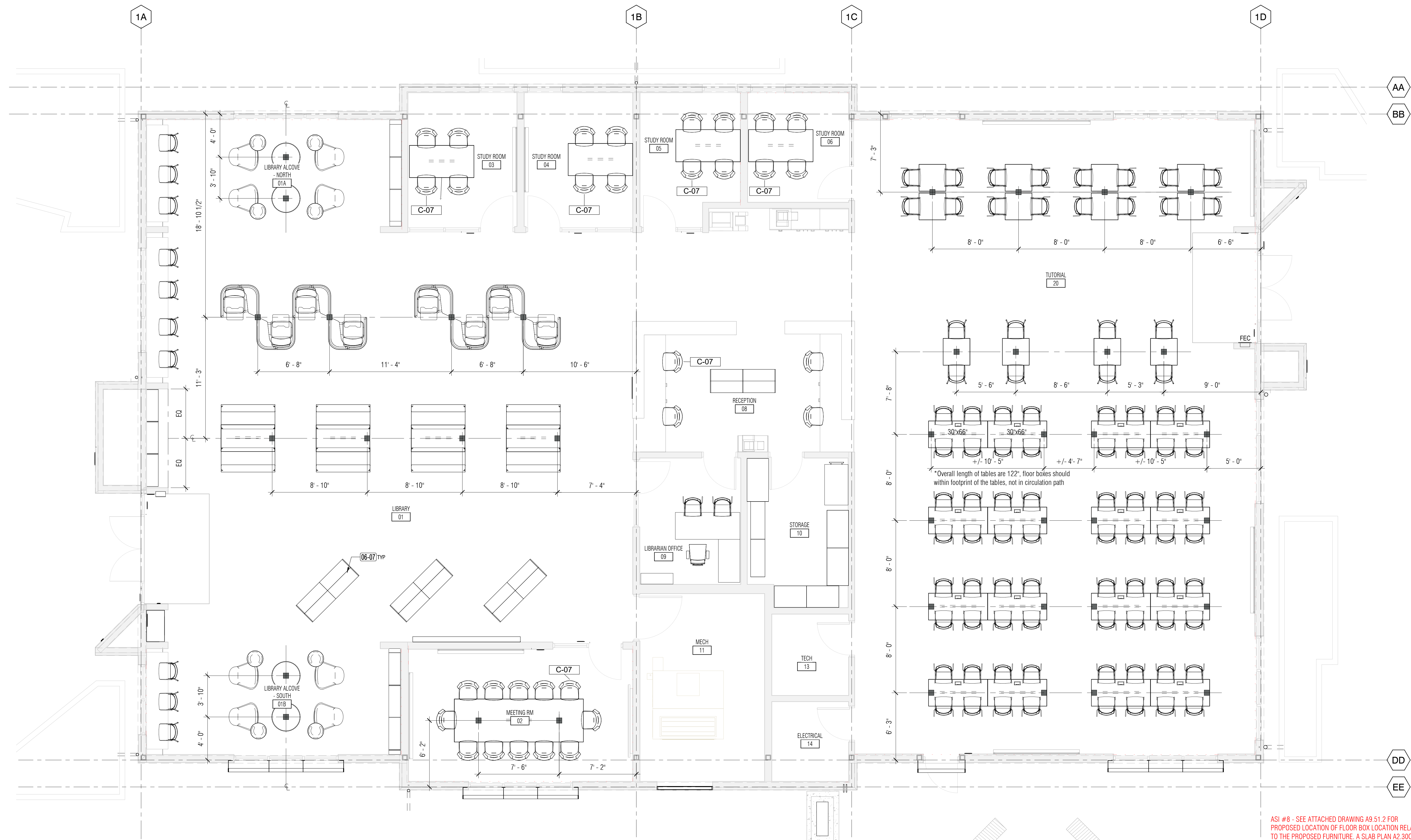
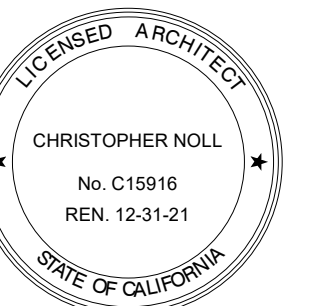
- FURNITURE SHOWN IS FOR REFERENCE ONLY. LOOSE FURNITURE, FIXTURE, EQUIPMENT ARE ACQUIRED UNDER A SEPARATE CONTRACT AND FF&E BUDGET. ITEMS SHOWN ARE SCHEMATIC AND SELECTION LAYOUT IS TO BE DETERMINED WITH DISTRICT, AND USER GROUPS.
- DEMOLITION, REMOVAL AND SALVAGE FOR RE-USE FURNITURE IS TO BE DETERMINED WITH DISTRICT AND USER GROUP.

APPROVALS

NOLL & TAM
ARCHITECTS

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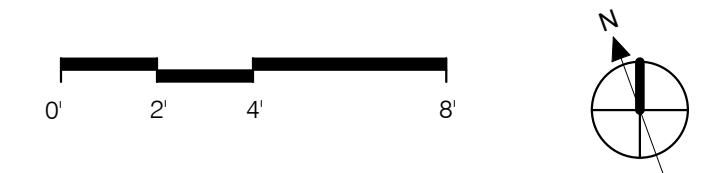
ARCHITECTS SEAL



01 - FURNITURE PLAN - OPTION A - LIBRARY LEARNING RESOURCE CENTER (LLRC)

1
AS91.2
1/4" = 1'-0"

ASI #8 - SEE ATTACHED DRAWING A9.51.2 FOR PROPOSED LOCATION OF FLOOR BOX LOCATION RELATIVE TO THE PROPOSED FURNITURE. A SLAB PLAN A2.30C IS ALSO ATTACHED WITH LOCATION OF FLOOR BOXES.



PROJECT TITLE

**CONTRA COSTA
CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION &
RENOVATION**

1690 Watermill Rd.
San Ramon, CA 94582

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INCREMENT 2

ISSUE DATE 5/30/2019

NOLL & TAM JOB NUMBER 21630

| REVISIONS | DATE | DESCRIPTION |
|-----------|-----------|-------------|
| 1 | 2/12/2020 | ASI 008 |

SHEET TITLE
**FURNITURE PLAN -
LIBRARY LEARNING
RESOURCE CENTER
(FOR REFERENCE
ONLY)**

SHEET NUMBER

AS91.2
A9.51.2

GENERAL NOTES

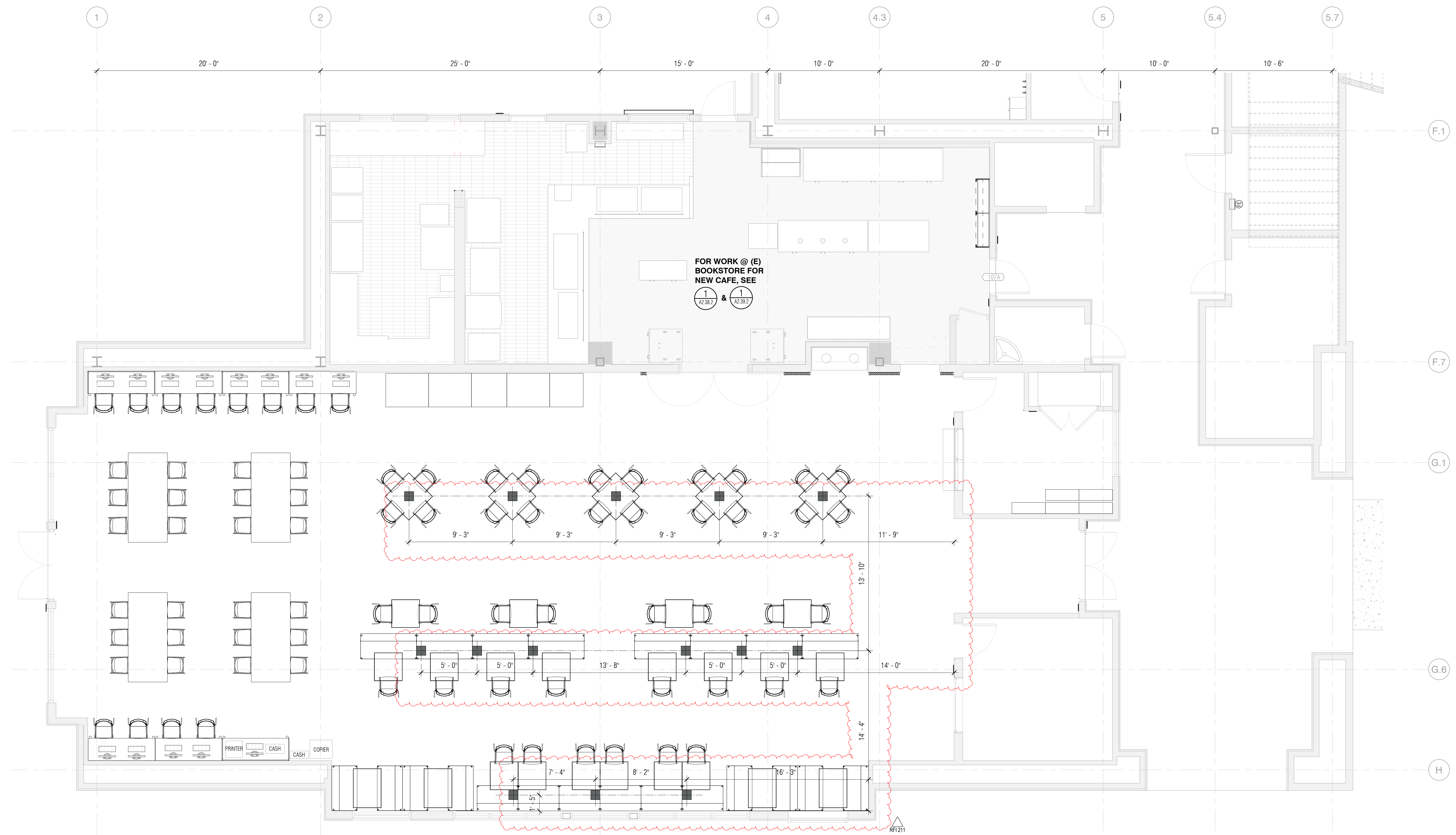
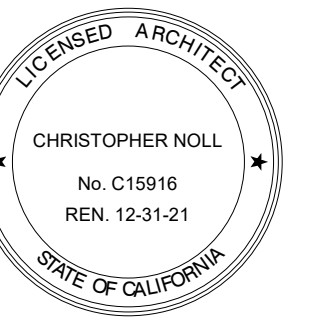
- 1. FURNITURE SHOWN IS FOR REFERENCE ONLY. LOOSE FURNITURE, FIXTURE, EQUIPMENT ARE ACQUIRED UNDER A SEPARATE CONTRACT AND FF&E BUDGET. ITEMS SHOWN ARE SCHEMATIC AND SELECTION LAYOUT IS TO BE DETERMINED WITH DISTRICT, AND USER GROUPS
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ARCHITECTS SEAL



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ISSUE TITLE

INCREMENT 2

ISSUE DATE 5/30/2019

NOLL & TAM JOB NUMBER 21630

| REVISIONS | DATE | DESCRIPTION |
|-----------|----------|--------------|
| 1 | 12/22/20 | INC2 RFI 211 |

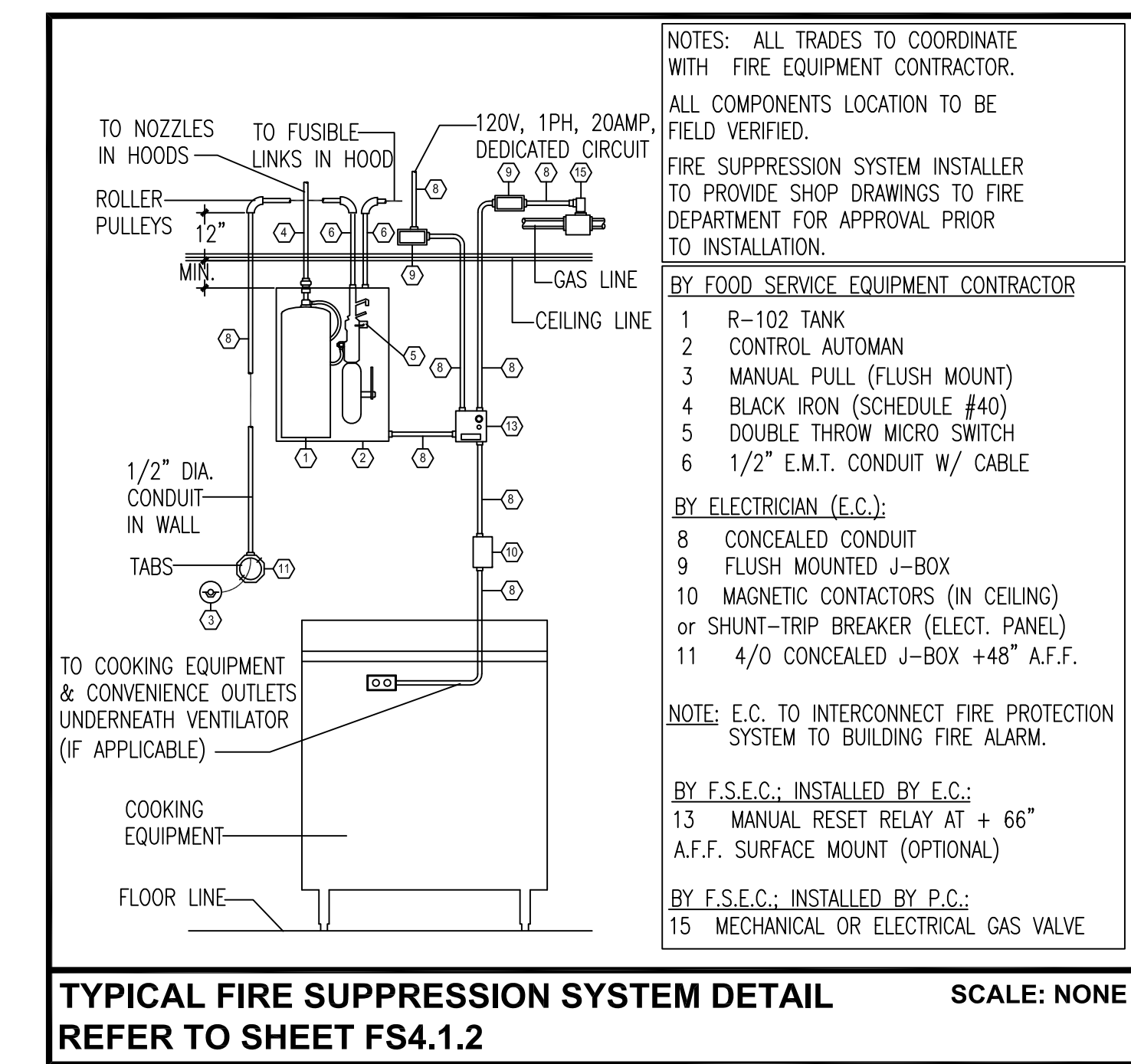
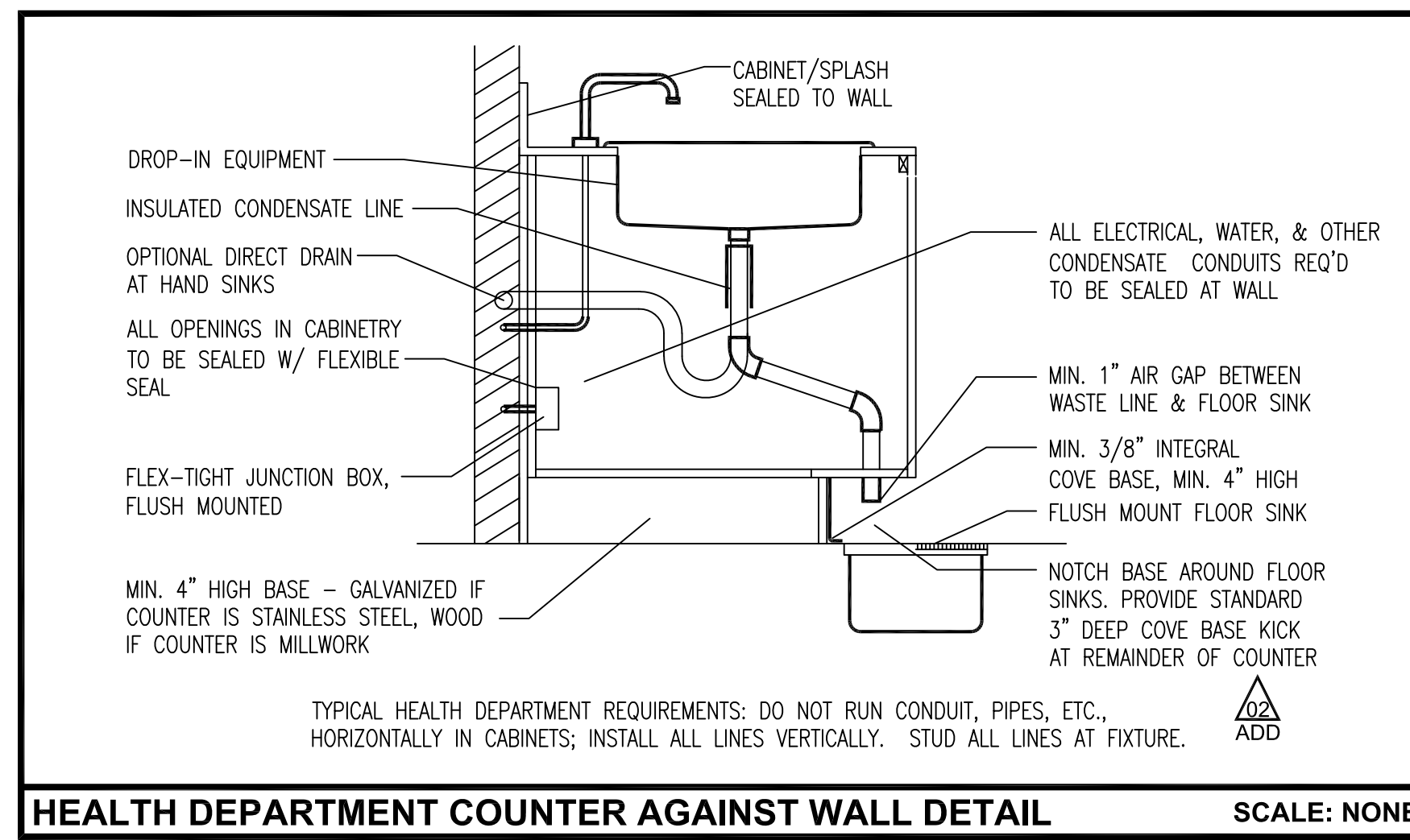
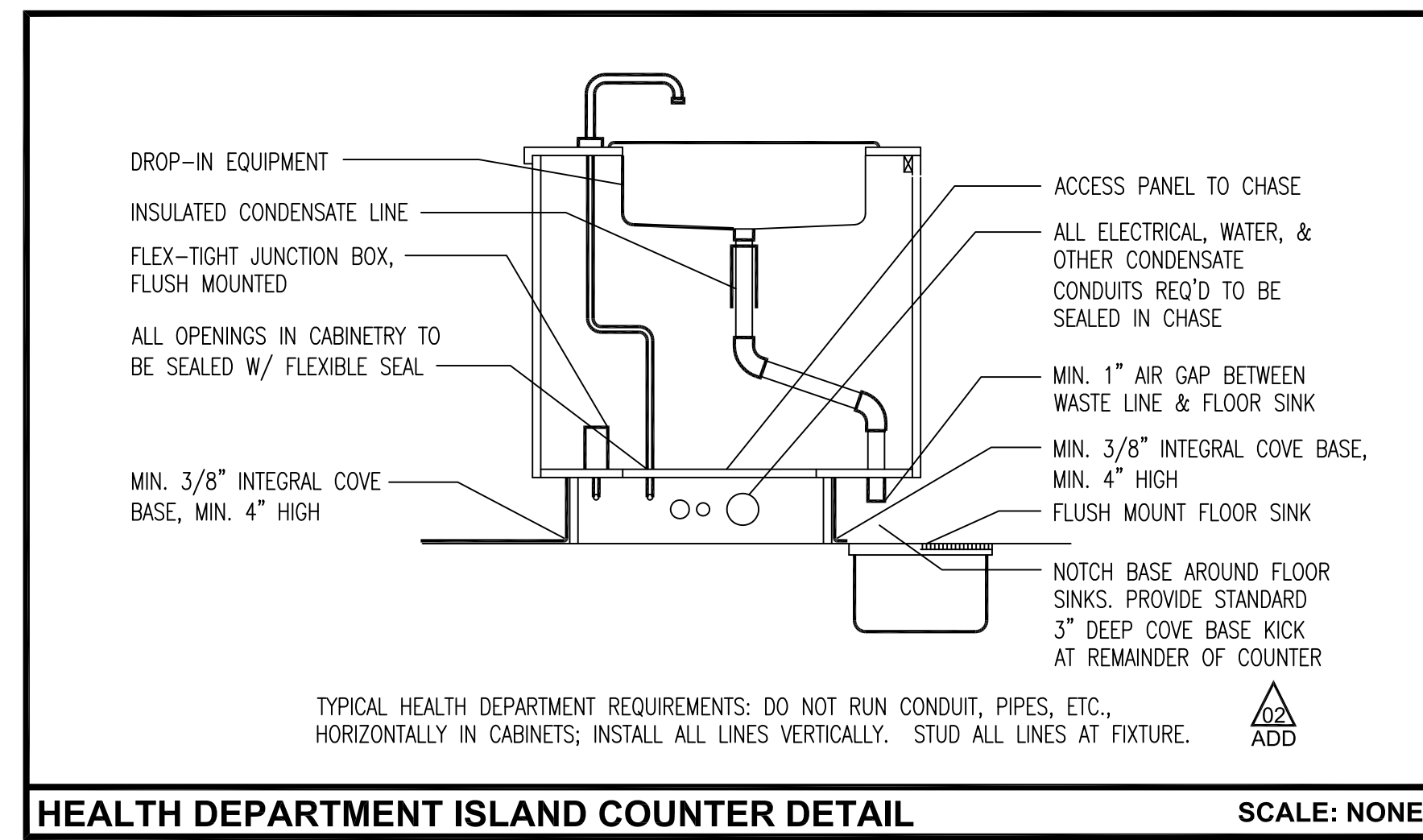
SHEET TITLE

**FURNITURE PLAN -
1ST FLOOR - WEST -
LEARNING COMMONS
(FOR REFERENCE
ONLY)**

SHEET NUMBER

A9.59.2

1 01 - FURNITURE PLAN - WEST - LEARNING COMMONS
A9.59.2 1/4" = 1'-0"



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ARCHITECTS SEAL

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REN. 12-31-19
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PROJECT TITLE

CONTRA COSTA CCD D-4002
DVC SAN RAMON CAMPUS EXPANSION & RENOVATION

1690 Watermill Rd.
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ISSUE TITLE

INCREMENT 2

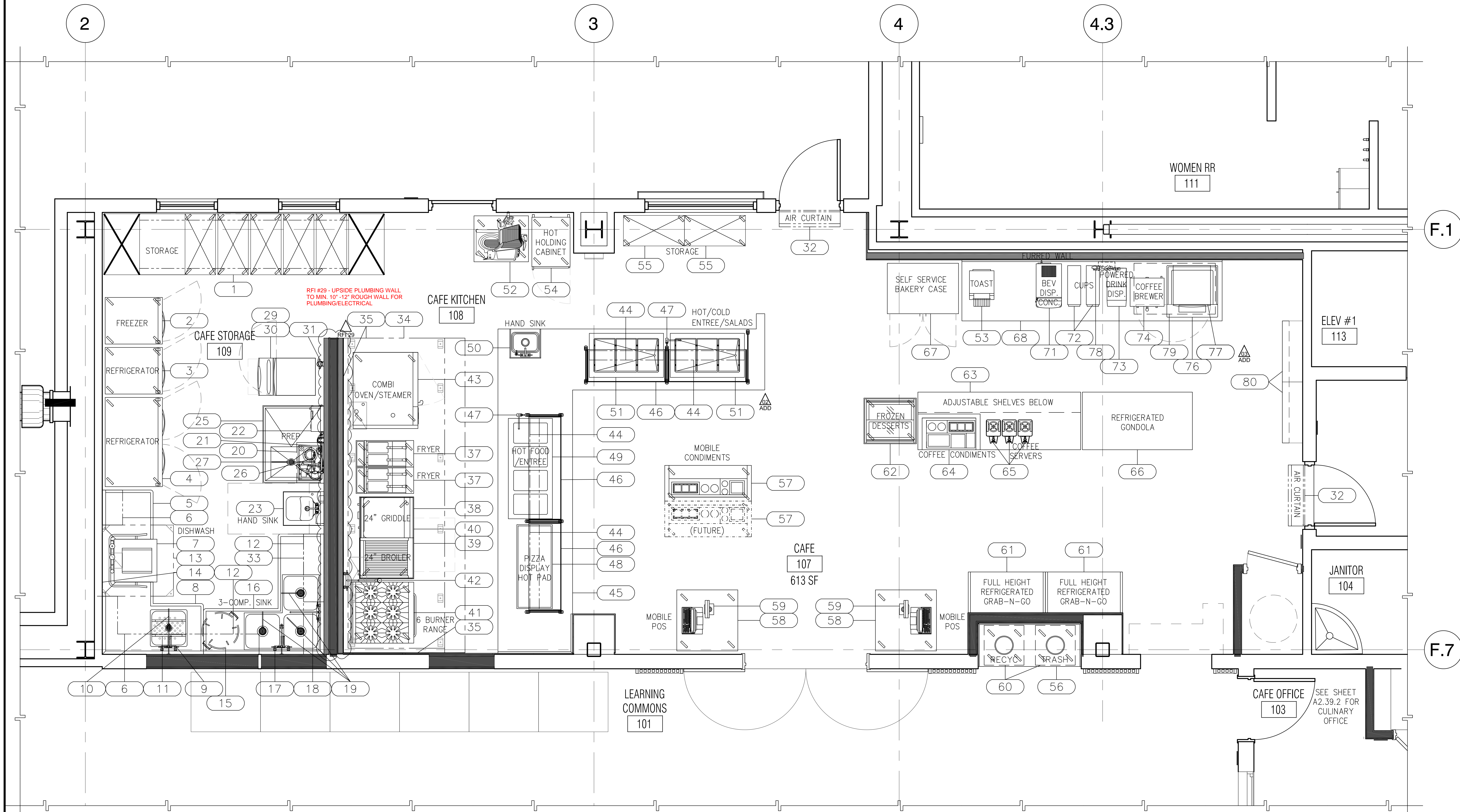
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|-----------------------|---------------------|
| ISSUE DATE | 9/11/2023 |
| NOLL & TAM JOB NUMBER | 21630 |
| REVISIONS | DATE DESCRIPTION |
| 8/27/19 | INC 2 - ADDENDUM 02 |
| 4/15/21 | INC 2 - ADDENDUM 03 |
| | 4/15/21 CCD 111 |

SHEET TITLE

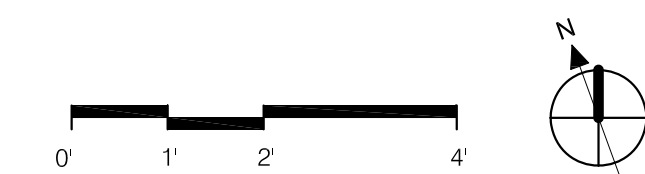
FIRST FLOOR CAFE FOOD SERVICE ITEMIZED EQUIPMENT FLOOR PLAN

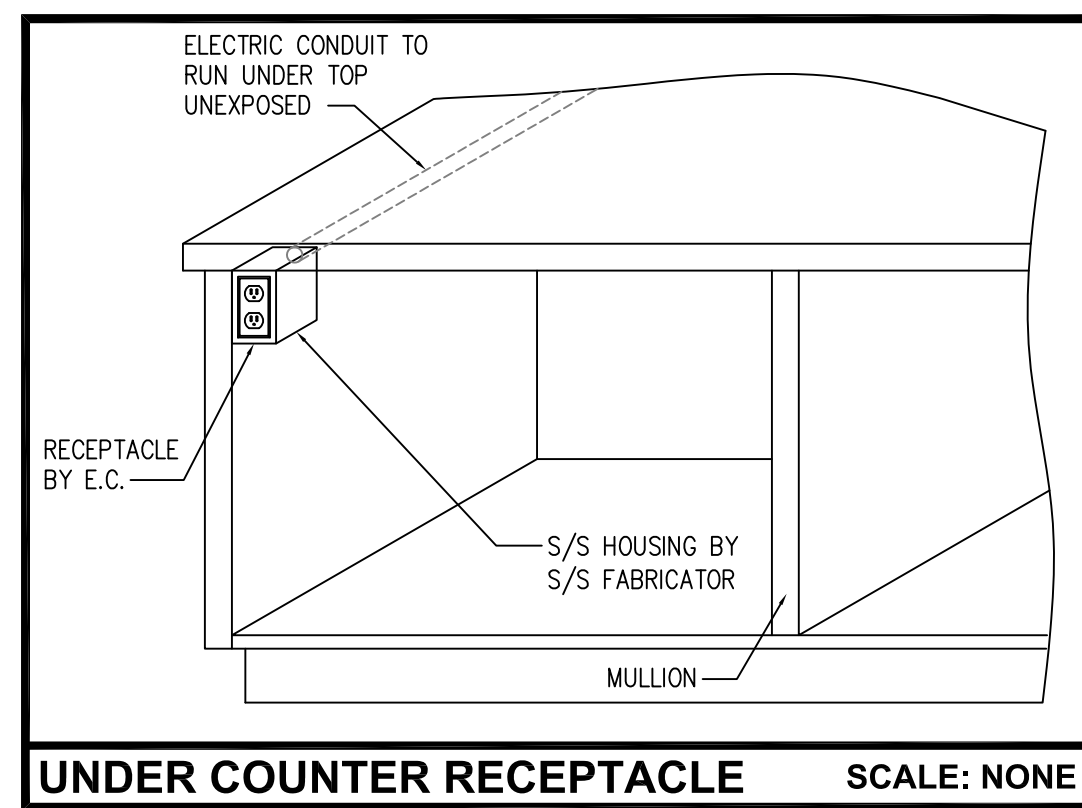
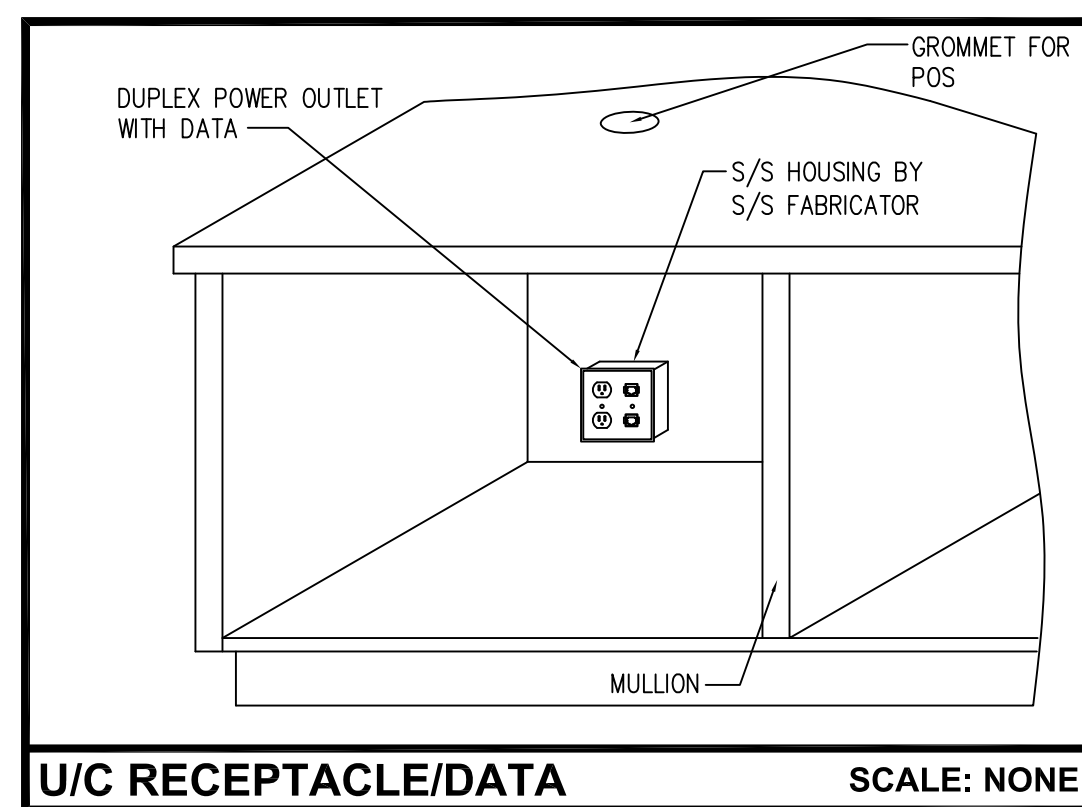
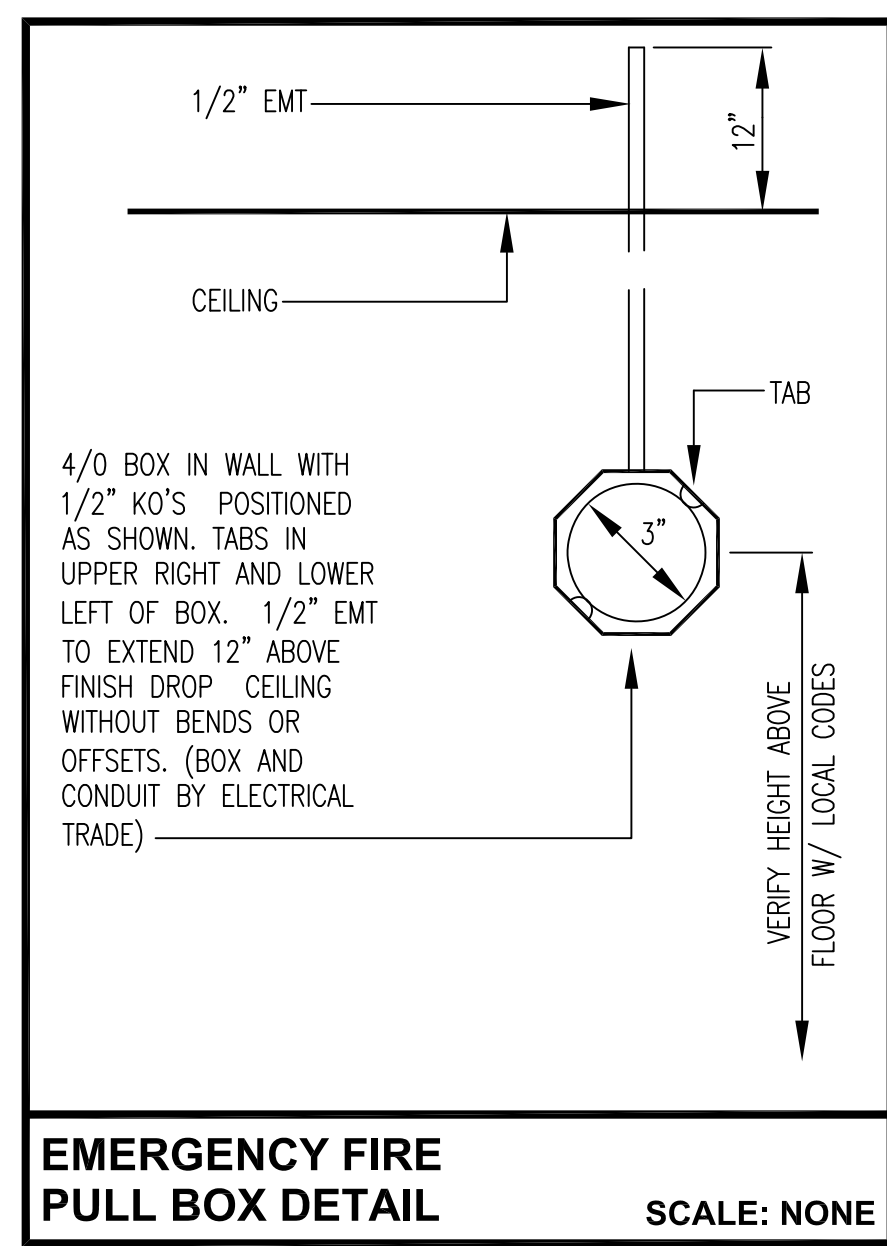
SHEET NUMBER

FS1.1.2



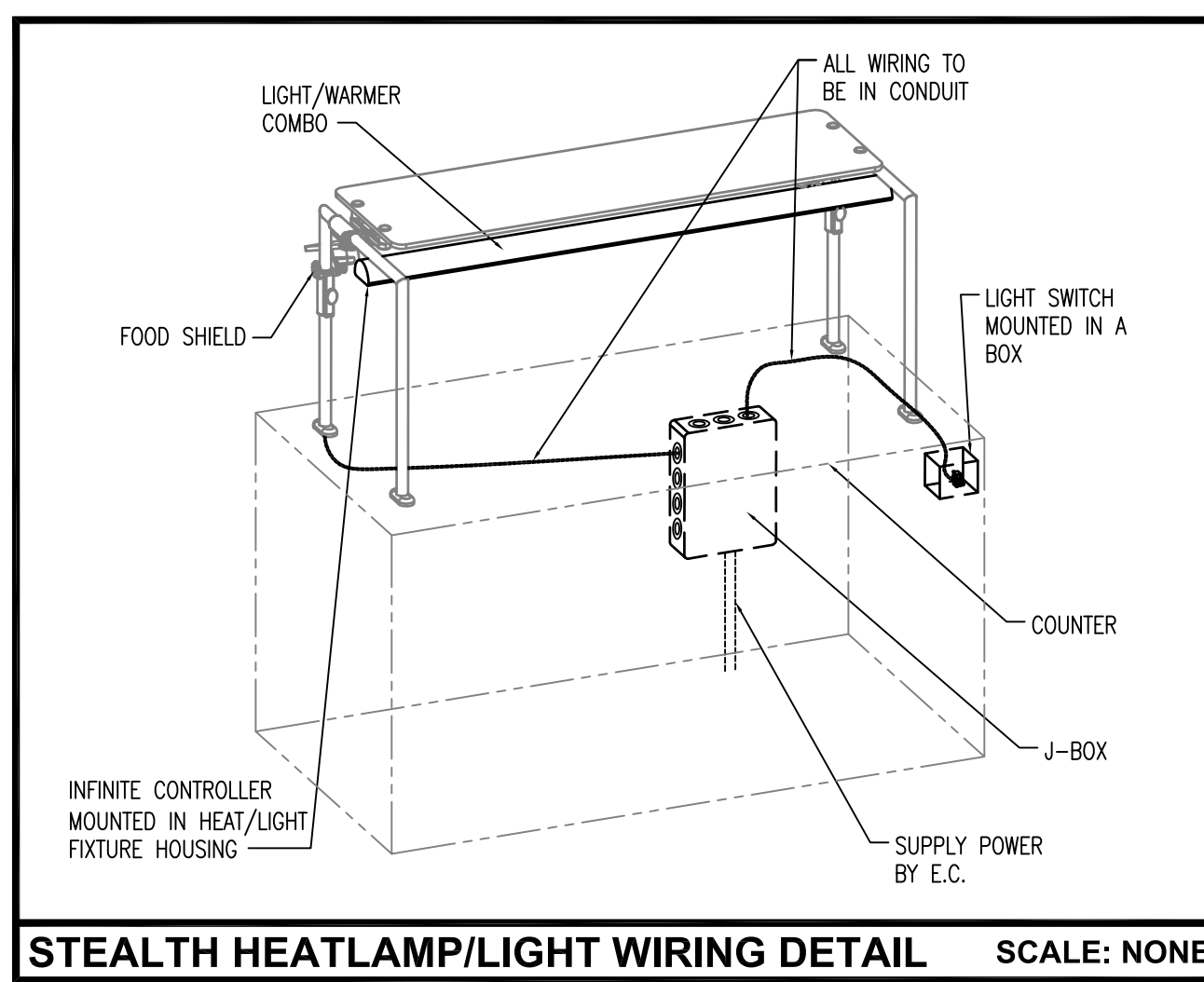
1 FS1.1.2 1/2" = 1'-0"





FOOD SERVICE ELECTRICAL NOTES

- ALL OUTLETS AND CONNECTIONS SHOWN RELATE TO FOOD SERVICE (FS) EQUIPMENT ONLY.
- THIS ELECTRICAL ROUGH-IN PLAN IS INTENDED TO SHOW OUTLET LOCATIONS, CONNECTION POSITIONS AND LOADS. ANY DIMENSIONS SHOWN ARE FROM FINISHED WALL SURFACES.
- THE FINAL CONNECTIONS TO THE FS EQUIPMENT AT THE JUNCTION-BOX OR CIRCUIT PANEL WILL BE BY THE ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO INCLUDE ALL MATERIALS.
- ELECTRICAL DIVISION TO FURNISH AND INSTALL THE FOLLOWING:
 - ALL JUNCTION-BOXES, ELECTRICAL OUTLETS, COVER PLATES, SWITCHES, ETC., NOT BUILT INTO FIXTURES OR EQUIPMENT. ALL OUTLETS, JUNCTION-BOXES, COVER PLATES, ETC. IN DISHROOMS, OR AS INDICATED ON SCHEDULES MUST BE VAPOR PROOF. ALL OUTLETS ABOVE TABLE/COUNTER BACK SPLASHES TO BE MOUNTED HORIZONTALLY.
 - ALL CORDS AND PLUGS, AS NOTED ON SCHEDULE, SHALL BE N.E.M.A. RATED AND U.L. APPROVED.
 - SHUNT-TRIP CIRCUIT BREAKERS OR DISCONNECTS FOR FIRE CONTROL SYSTEM SHUT-OFF OF FOOD SERVICE EQUIPMENT BELOW HOODS/VENTILATORS AS REQUIRED BY N.F.P.A.-96, AND LOCAL CODES.
 - DISCONNECTS OR OTHER DEVICES AS REQUIRED BY CODES.
- ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT, WIRING J-BOXES, OUTLETS, ETC., AND INSTALL ELECTRICAL COMPONENTS AND INTERWIRE, BETWEEN ALL FS EQUIPMENT (WHERE REQUIRED) INCLUDING BUT NOT LIMITED TO, THE FOLLOWING:
 - KITCHEN EXHAUST HOOD FIRE CONTROL SYSTEM TO GAS SOLENOID VALVE, SHUNT-TRIP CIRCUIT BREAKER(S) AND BUILDING FIRE ALARM SYSTEM (IF APPLICABLE).
 - FROM JUNCTION BOXES TO OUTLETS MOUNTED ON/IN CUSTOM FABRICATED EQUIPMENT ITEMS.
 - FROM DISHWASHERS INTERNAL ON/OFF FAN CONTROL OPTION TO EXTERIOR TYPE 2 EXHAUST FAN.
- ELECTRICAL CONTRACTOR TO PROVIDE AND WIRE EXHAUST HOOD LIGHT SWITCH WITH JUNCTION BOX ON TOP OF HOOD, INTER-WIRE TO LIGHTS, SENSORS, ETC.
- ELECTRICAL CONTRACTOR TO COORDINATE FAN ON/OFF SWITCH REQUIREMENTS WITH MECHANICAL CONTRACTOR. EXHAUST AND M-U AIR FANS MUST BE INTERLOCKED TO RUN SIMULTANEOUSLY.
- ELECTRICAL CONTRACTOR TO INTERCONNECT TEMPERATURE SENSORS AND LIGHT FIXTURES IN HOODS. REFER TO SHOP DRAWINGS FOR DIAGRAM.



ELECTRICAL ABBREVIATIONS AND SYMBOLS

| | | |
|---|-----|-----|
| SWITCH | SW | (S) |
| ELECTRICAL CONNECTION | EC | (E) |
| JUNCTION BOX | JB | (J) |
| STUB-UP TO JUNCTION BOX | JBS | (J) |
| SINGLE RECEPTACLE | SR | (S) |
| DUPLEX RECEPTACLE | DR | (D) |
| DUPLEX RECEPTACLE MOUNTED ON EQUIPMENT AT HEIGHT INDICATED, POWER FROM STUB | DRS | (D) |
| FIRE PULL STATION | FP | (P) |
| DATA/COMM. PORT | DP | (D) |

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ARCHITECTS SEAL

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FCS

PROJECT TITLE
CONTRA COSTA CCD D-4002
DVC SAN RAMON CAMPUS EXPANSION & RENOVATION

1690 Watermill Rd.
San Ramon, CA 94582

RECORD SET:
THESE DRAWINGS HAVE BEEN PREPARED FROM ADDENDUMS, CCD'S, ASIS AND SELECT RFI'S OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM. ONLY A SELECT FEW AS-BUILTS WERE SUBMITTED.

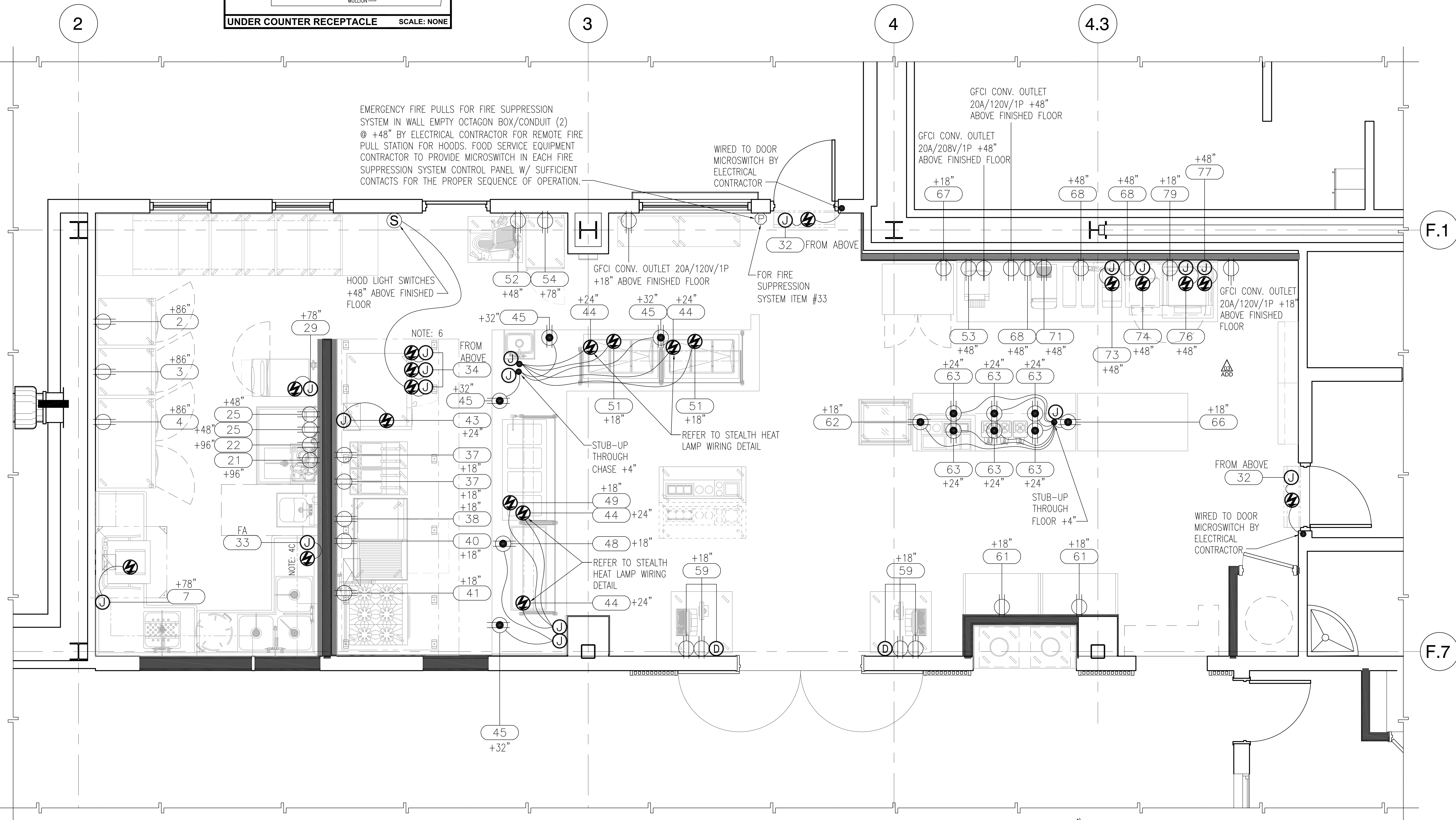
ISSUE TITLE
INCREMENT 2

ISSUE DATE 9/01/2023
NOLL & TAM JOB NUMBER 21630

| REVISIONS | DATE | DESCRIPTION |
|-----------|---------------------|-------------|
| 8/27/19 | INC 2 - ADDENDUM 02 | |
| 4/15/21 | INC 2 - ADDENDUM 03 | |
| | 4/15/21 | CCD 111 |

SHEET TITLE
FIRST FLOOR CAFE FOOD SERVICE ELECTRICAL ROUGH-IN PLAN

SHEET NUMBER
FS1.2.2



- FOOD SERVICE MECHANICAL/PLUMBING NOTES**
- ALL CONNECTIONS SHOWN RELATE TO FOOD SERVICE EQUIPMENT ONLY. SEE ENGINEERING PLANS FOR ADDITIONAL INFORMATION.
 - PLUMBING ROUGH-IN PLAN IS INTENDED TO SHOW LOCATIONS, HEIGHTS, CONNECTION SIZES, POSITIONS AND LOAD REQUIREMENTS. ANY DIMENSIONS SHOWN ARE FROM FINISHED SURFACES.
 - FINAL CONNECTIONS AND INTERCONNECTIONS TO/BETWEEN ALL EQUIPMENT TO ALL EQUIPMENT TO BE BY MECHANICAL DIVISION INCLUDING REQUIRED MATERIAL, SUCH AS STOPS, VALVES, FILTERS, TRAPS, CHECK VALVES, MIXING VALVES, PIPING, TUBING, ETC.
 - MECHANICAL DIVISION TO FURNISH AND INSTALL THE FOLLOWING:
 - ALL WATER, WASTE, AND GAS, SERVICE TO POINT OF ROUGH-IN AS SHOWN ON PLAN.
 - PROVIDE HOT WATER AS FOLLOWS: 140 DEGREE MINIMUM TO DISHWASHER AND POT WASHING; 120 DEGREE MINIMUM TO PREP SINKS; AND, 110 DEGREE MINIMUM TO HAND SINKS.
 - PRESSURE REDUCING AND/OR REGULATING VALVES FOR DISHWASHERS, BOOSTER HEATERS AND ANY OTHER EQUIPMENT AS REQUIRED BY MANUFACTURER.
 - ALL FLOOR SINKS, COMPLETE WITH THE INDICATED TOP GRATES, AND REMOVABLE SEDIMENT BUCKETS, SET FLUSH WITH FINISHED FLOOR, UNLESS OTHERWISE NOTED OR REQUIRED BY CODES.
 - ALL WASTE LINES AS NOTED. MINIMUM DIAMETER OF LINE SHALL BE AS INDICATED ON PLAN, REGARDLESS OF CONNECTION SIZE, AND SHALL BE DOWNWARD WITH ADEQUATE CLEAN-OUT PROVISIONS. MAINTAIN DRAINS AS HIGH AS POSSIBLE ABOVE FLOOR.
 - INSTALL FIRE CONTROL GAS SHUT-OFF VALVE(S) AS SUPPLIED BY FOOD SERVICE EQUIPMENT CONTRACTOR (F.S.E.C.).
 - VACUUM BREAKERS AS REQUIRED.
 - ANY COLD WATER TEMPERING KITS FOR HIGH HEAT DRAINAGE EQUIPMENT (E.G., DISH/POT WASHERS, STEAMERS, ETC.) IF REQUIRED BY LOCAL PLUMBING CODES.
 - ALL VENT PIPES ARE TO BE CONCEALED IN WALLS OR COLUMN CHASES. USE LOOP-VENTS FOR ISLAND FIXTURES.
 - PLUMBING CONTRACTOR TO TURN BACK DRAIN CONNECTIONS; THEN, DOWN TO MAXIMIZE STORAGE - TYPICAL FOR ALL DRAINS.

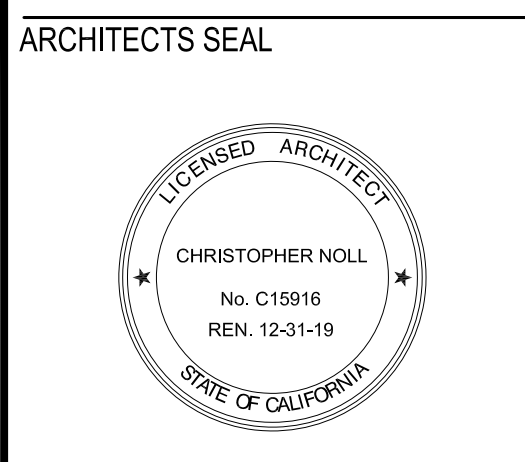
MECHANICAL ABBREV. AND SYMBOLS

| | | |
|----------------------|-----|---|
| GAS ROUGH-INS | G | ● |
| WATER CONNECTION | WC | ○ |
| HOT WATER ROUGH-INS | HW | ● |
| COLD WATER ROUGH-INS | CW | ○ |
| WASTE | W | ⊗ |
| INDIRECT WASTE | IW | ⊗ |
| FLOOR SINK- 2" PIPE | FS | ⊗ |
| FLOOR SINK- 3" PIPE | FS | ⊗ |
| FLOOR DRAIN | FD | ⊗ |
| FILTERED COLD WATER | FCW | ⊗ |

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PROJECT TITLE

**CONTRA COSTA
CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION &
RENOVATION**

1690 Watermill Rd.
San Ramon, CA 94582

RECORD SET:
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ISSUE TITLE

INCREMENT 2

ISSUE DATE 9/01/2023

NOLL & TAM JOB NUMBER 21630

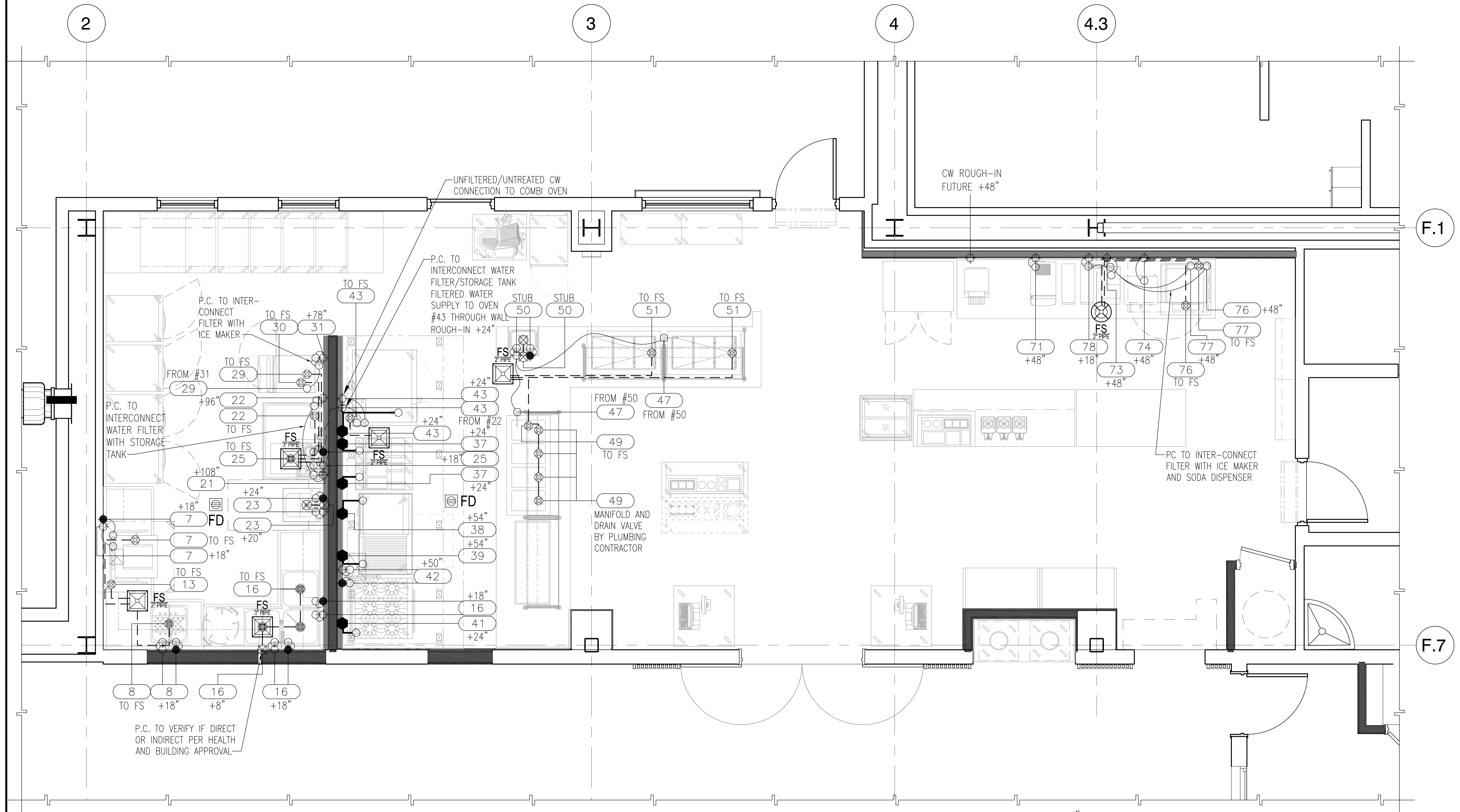
| REVISIONS | DATE | DESCRIPTION |
|-----------|---------------------|-------------|
| 8/2/19 | INC 2 - ADDENDUM 02 | |
| 8/27/19 | INC 2 - ADDENDUM 03 | |
| 4/15/21 | CCD 111 | |

SHEET TITLE

**FIRST FLOOR CAFE
FOOD SERVICE PLUMBING
ROUGH-IN PLAN**

SHEET NUMBER

FS1.3.2

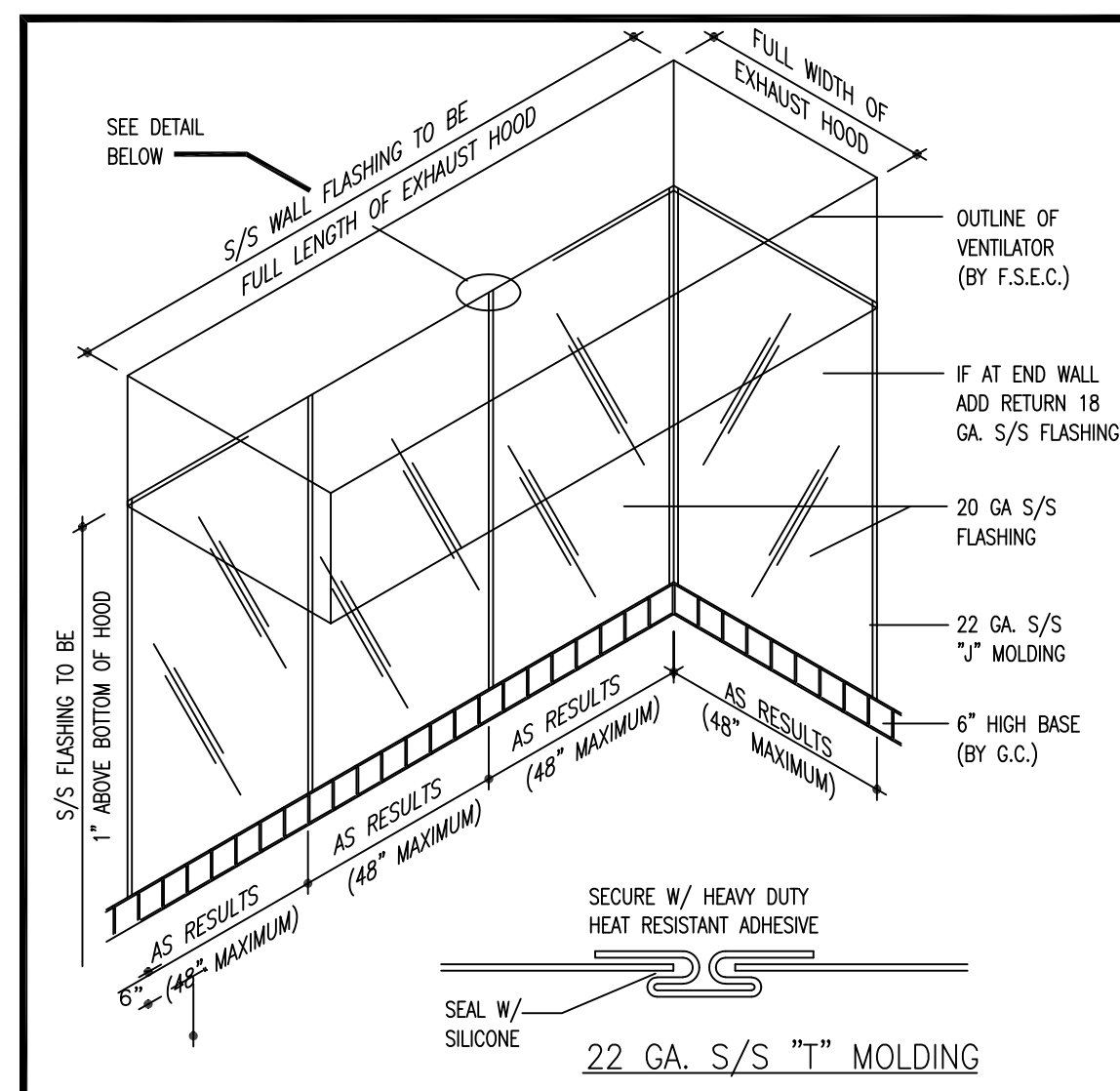


1 FS1.3.2 1/2" = 1'-0"



FOOD SERVICE BUILDING CONDITIONS/MECHANICAL NOTES

1. ALL CEILINGS IN KITCHEN AREAS TO BE NO LESS THAN 9'-0" ABOVE FINISHED FLOOR.
2. ALL WORK INDICATED ON THIS PLAN AND IN THESE NOTES SHALL BE BY OTHER THAN THE FOOD SERVICE EQUIPMENT CONTRACTOR (F.S.E.C).
3. WALLS, FLOORS AND CEILINGS IN FOOD SERVICE AND WASHING AREAS, OR ANY OTHER LOCATION WHERE FOOD OR BEVERAGES ARE PREPARED, SHALL BE SMOOTH, EASILY CLEANABLE, NON-ABSORBENT, AND DURABLE. WALLS AND CEILINGS SHALL BE LIGHT IN COLOR.
4. PARTITION WALLS BETWEEN FOODSERVICE/WASHING AREAS AND PUBLIC AREAS TO BE CONSTRUCTED FOR MAXIMUM SOUND CONTROL.
5. FINAL DUCT CONNECTIONS TO EQUIPMENT SHALL BE BY MECHANICAL CONTRACTOR.
6. GENERAL CONTRACTOR (G.C.) OR EQUIVALENT, SHALL:
 - A. PROVIDE IN-WALL REINFORCING OR BACKING AS REQUIRED FOR WALL MOUNTED FOOD SERVICE EQUIPMENT; REFER TO PLAN AND DETAIL.
 - B. SLOPE FLOORS TO FLOOR SINKS, FLOOR DRAINS, OR FLOOR TROUGHS.
 - C. PROVIDE DOOR/WALL OPENINGS FOR PASSAGE OF ALL FOOD SERVICE EQUIPMENT TO KITCHEN AREAS; G.C. TO COORDINATE WITH F.S.E.C.
 - D. PROVIDE FIRE RATED MATERIALS AND OR INSULATION AS REQUIRED FOR EXHAUST DUCTS, VENT STACKS, HEAT PRODUCING EQUIPMENT, ROOF/WALL PENETRATIONS, ETC.; PER LOCAL CODES.
 - E. PROVIDE COVED BASE OR INTEGRAL FLOOR MATERIALS AS REQUIRED AT ALL VERTICAL SURFACES OF FOOD SERVICE AREA FLOORS.
 - F. PROVIDE SLEEVES OR CONDUITS AT WALL/FLOOR PENETRATIONS AS REQUIRED FOR THROUGH WALL DRAIN LINES.
 - G. PROVIDE ANGLE IRON AT STRUCTURE FOR EXHAUST HOOD SECURING. HOOD HANGER BRACKET LOCATIONS PER MANUFACTURERS' SHOP DRAWINGS. 1/2" THREADED HANGER RODS, PROVIDED AND INSTALLED BY F.S.E.C. ANGLE IRON AND STRUCTURE ABOVE BETWEEN ROOF TRUSSES, BEAMS, ETC., BY G.C. THE G.C. IS TO COORDINATE STRUCTURAL SUPPORT LOCATIONS WITH F.S.E.C.
 - H. FIRE SUPPRESSION SYSTEM CONTRACTOR TO PROVIDE TYPE "K" FIRE EXTINGUISHER ADJACENT TO COOKING AREAS.
7. PROVIDE FOR A MINIMUM OF 500 CFM ADDITIONAL VENTILATION (EXHAUST AND SUPPLY) IN ALL DISHWASHING/POT WASHING ROOMS. THIS IS TO BE IN ADDITION TO THE SCHEDULED HOOD/DUCT EXHAUST SHOWN ABOVE DISHWASHERS/POT WASHERS.



GENERAL S/S WALL FLASHING DETAIL SCALE: NONE ITEM #35

BUILDING CONDITIONS/VENTILATION SYMBOLS

| | |
|--|--|
| | EXHAUST DUCT CONNECTION |
| | WALL BACKING |
| | 3"x 3"x 1/4" SUPPORT AT STRUCTURE |
| | "K" TYPE FIRE EXTINGUISHER |

APPROVALS

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FCSI
FOODSERVICE CONSULTING INSTITUTE

PROJECT TITLE

CONTRA COSTA CCD D-4002
DVC SAN RAMON CAMPUS EXPANSION & RENOVATION

1690 Watermill Rd.
San Ramon, CA 94582

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ISSUE TITLE

INCREMENT 2

ISSUE DATE: 9/01/2023
NOLL & TAM JOB NUMBER: 21630

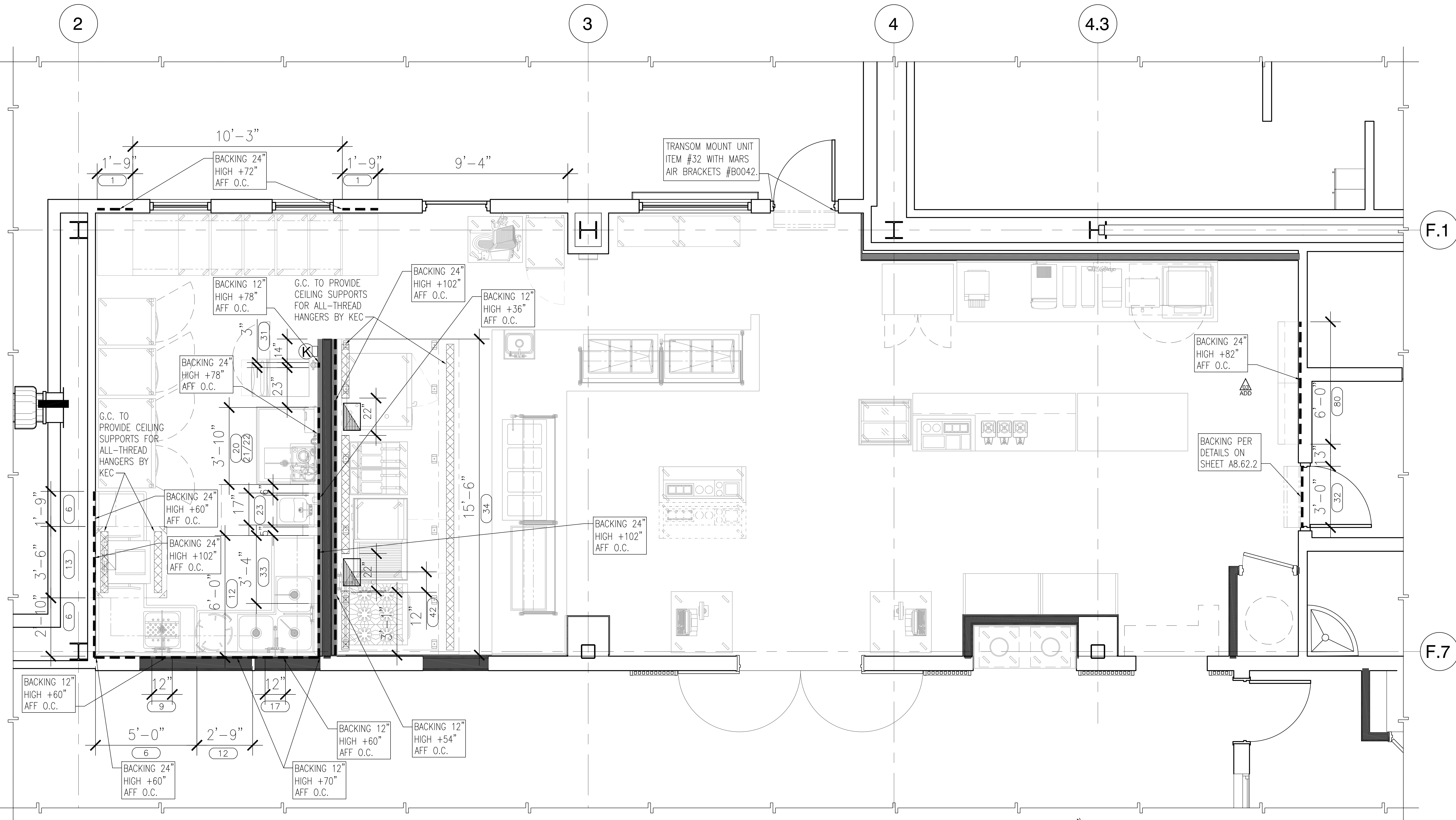
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| 8/27/19 | INC 2 - ADDENDUM 02 | |
| 8/27/19 | INC 2 - ADDENDUM 03 | |
| 4/15/21 | CCD 111 | |

SHEET TITLE

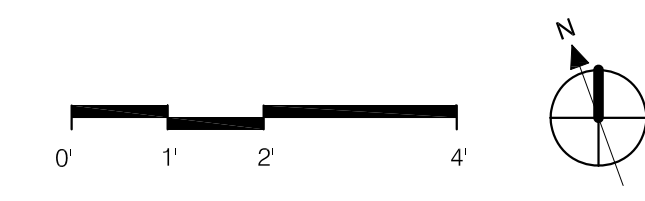
FIRST FLOOR CAFE FOOD SERVICE BUILDING CONDITIONS PLAN

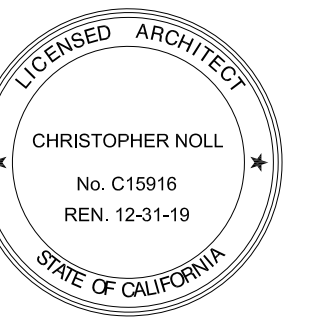
SHEET NUMBER

FS1.4.2



01 - BUILDING CONDITIONS PLAN - CAFE
1/2" = 1'-0"

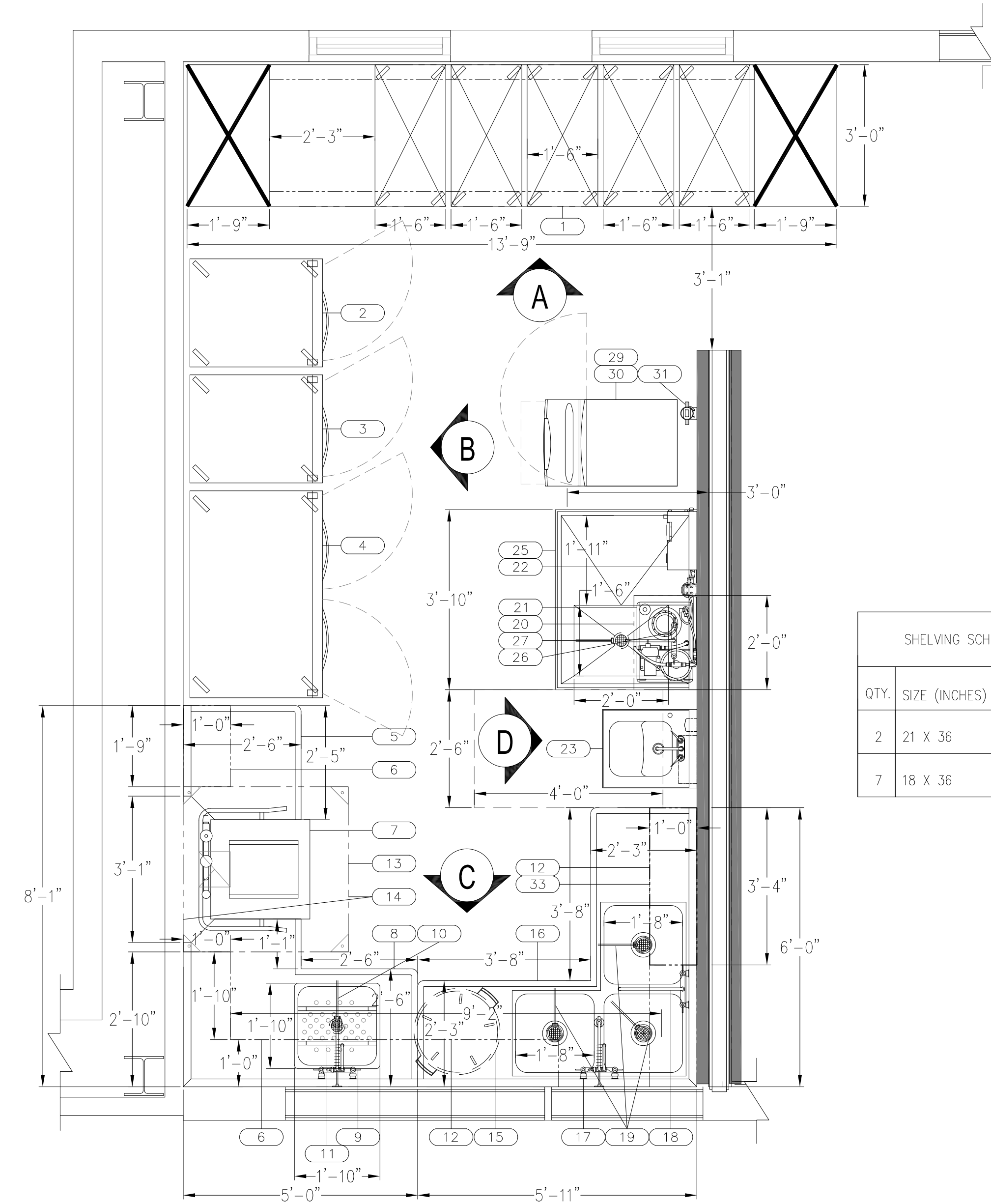




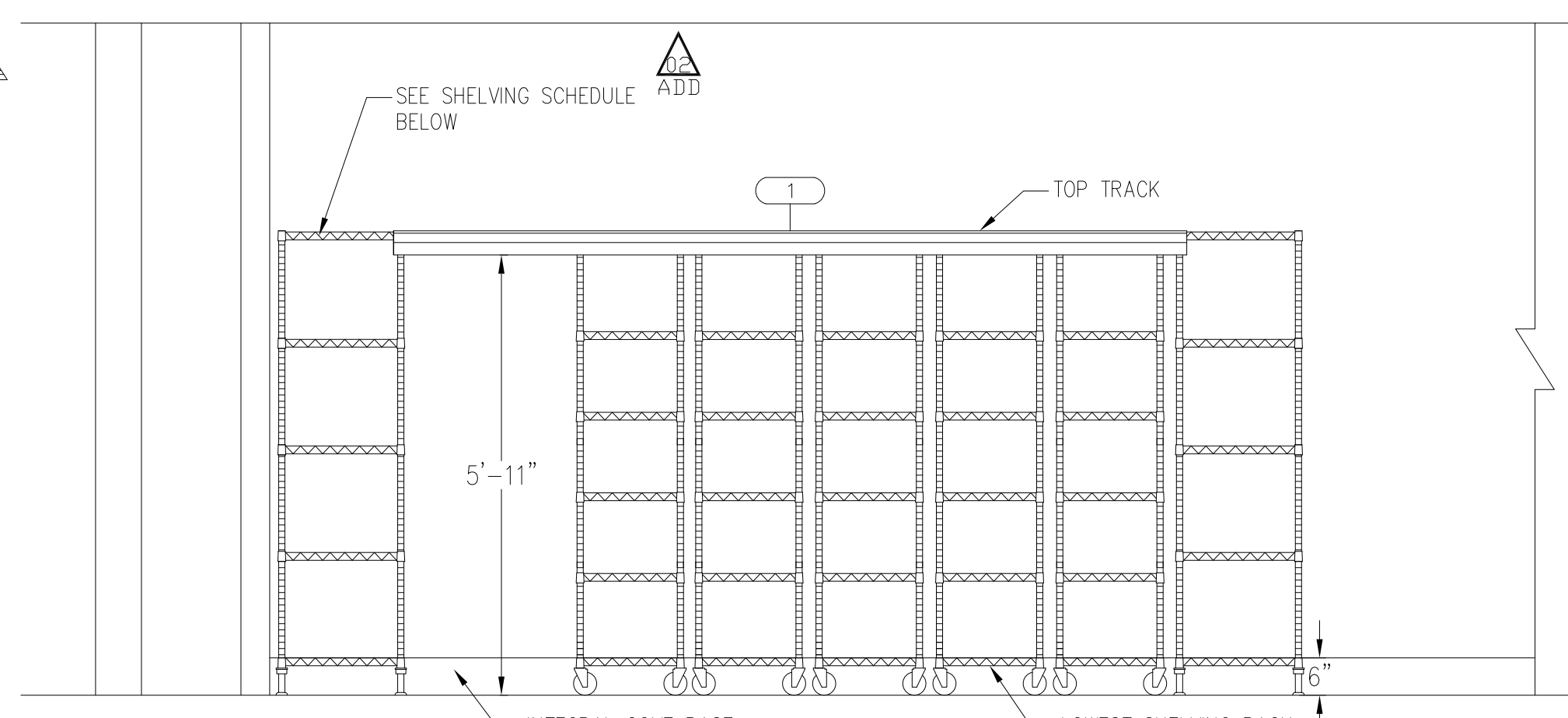
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| REVISIONS | DATE | DESCRIPTION |
|-----------|----------|---------------------|
| 1 | 8/2/19 | INC 2 - ADDENDUM 02 |
| 2 | 10/15/19 | INC 2 - ADDENDUM 03 |
| 3 | 4/15/21 | CCD 111 |

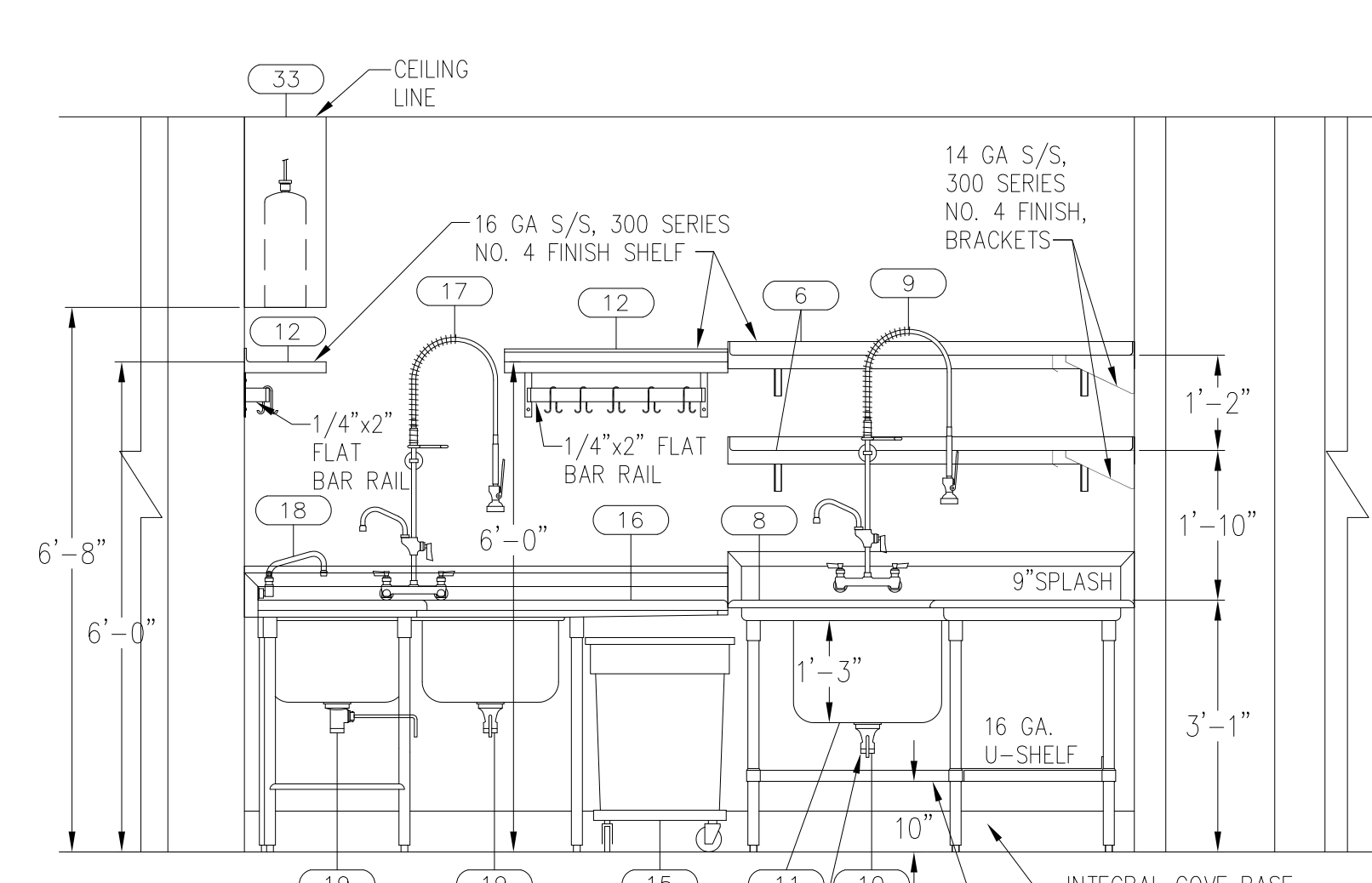


PLAN VIEW E

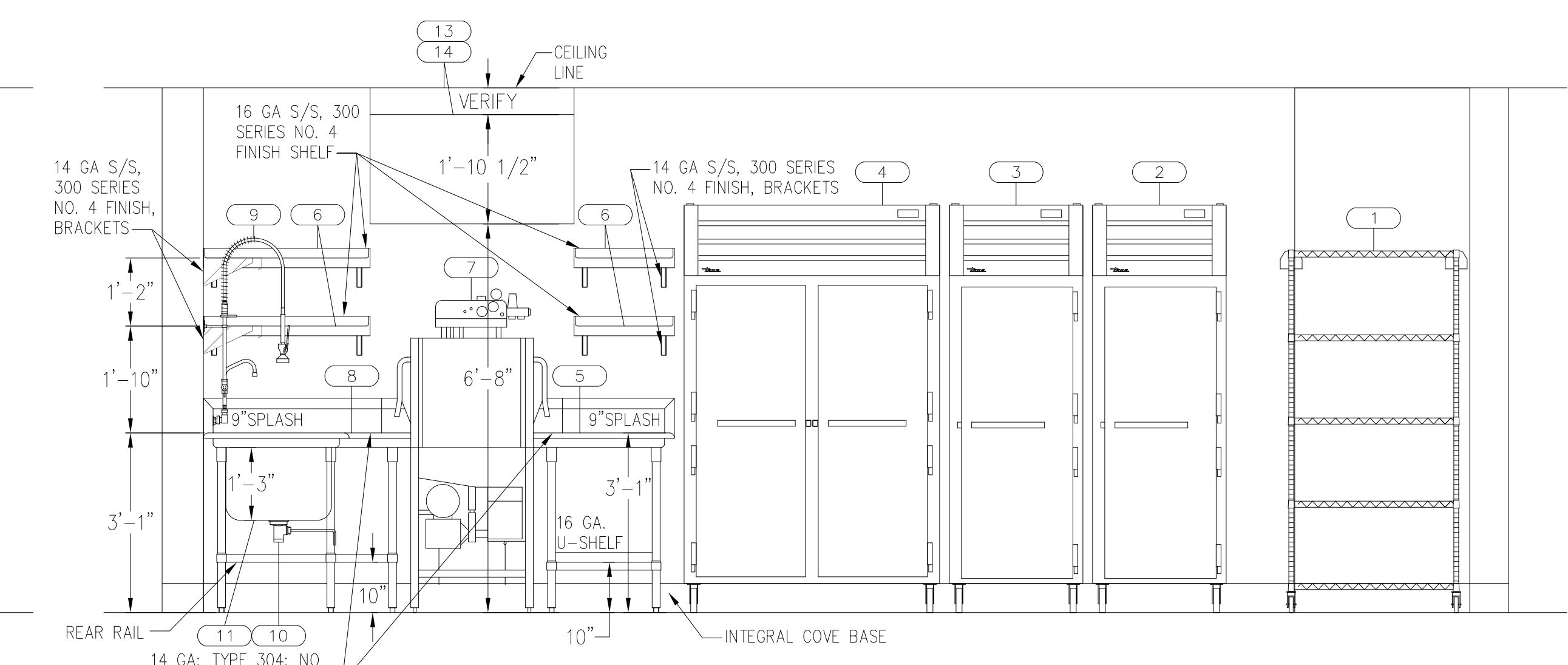


ELEVATION VIEW - A
SCALE: 1/2" = 1'-0"

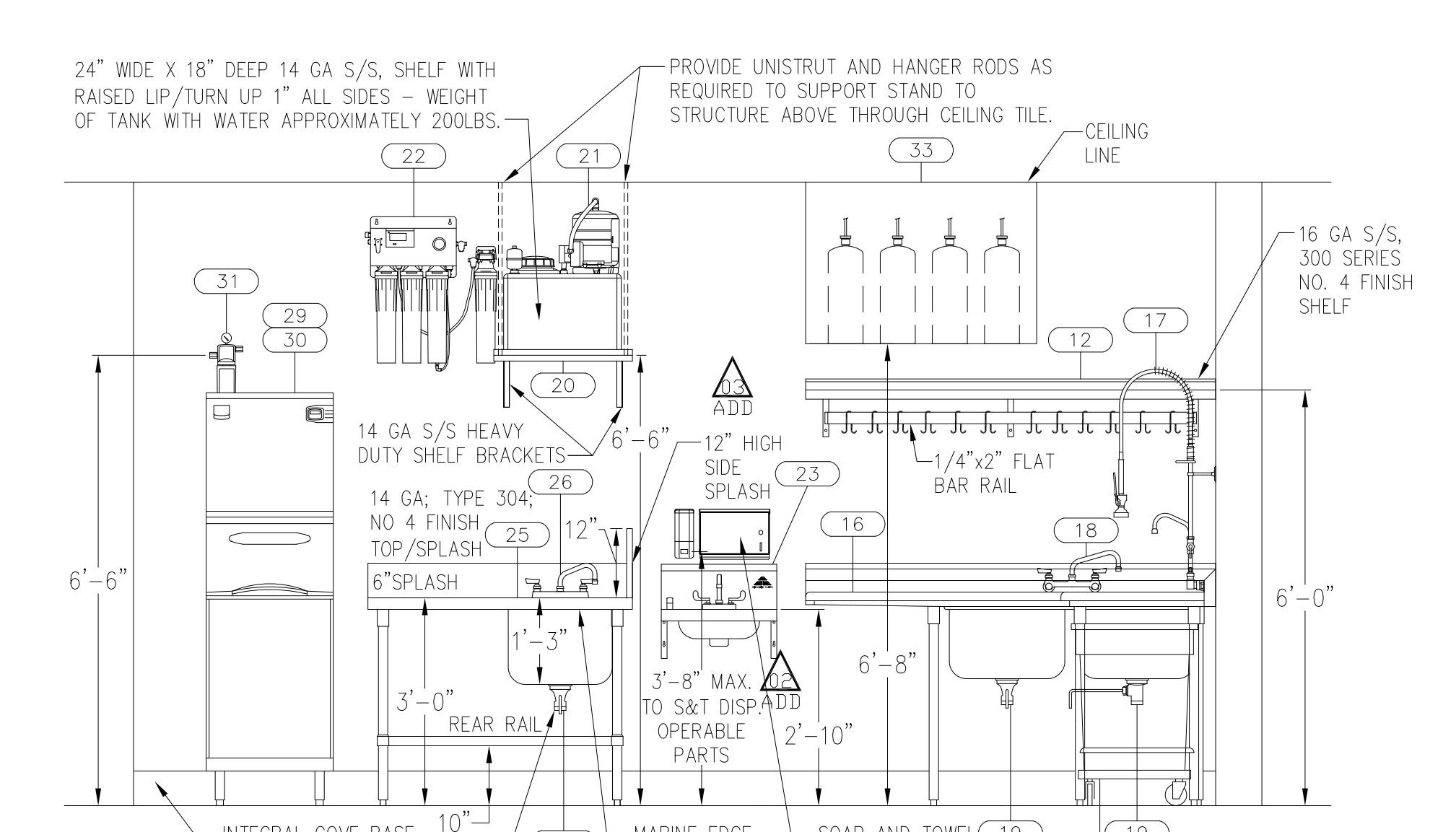
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|-------------------------------------|---------------|-------|---------------|
| QTY. | SIZE (INCHES) | TIERS | TOTAL SQ. FT. |
| 2 | 21 X 36 | 5 | 52.5 |
| 7 | 18 X 36 | 5 | 157.5 |
| | | | 210.0 |



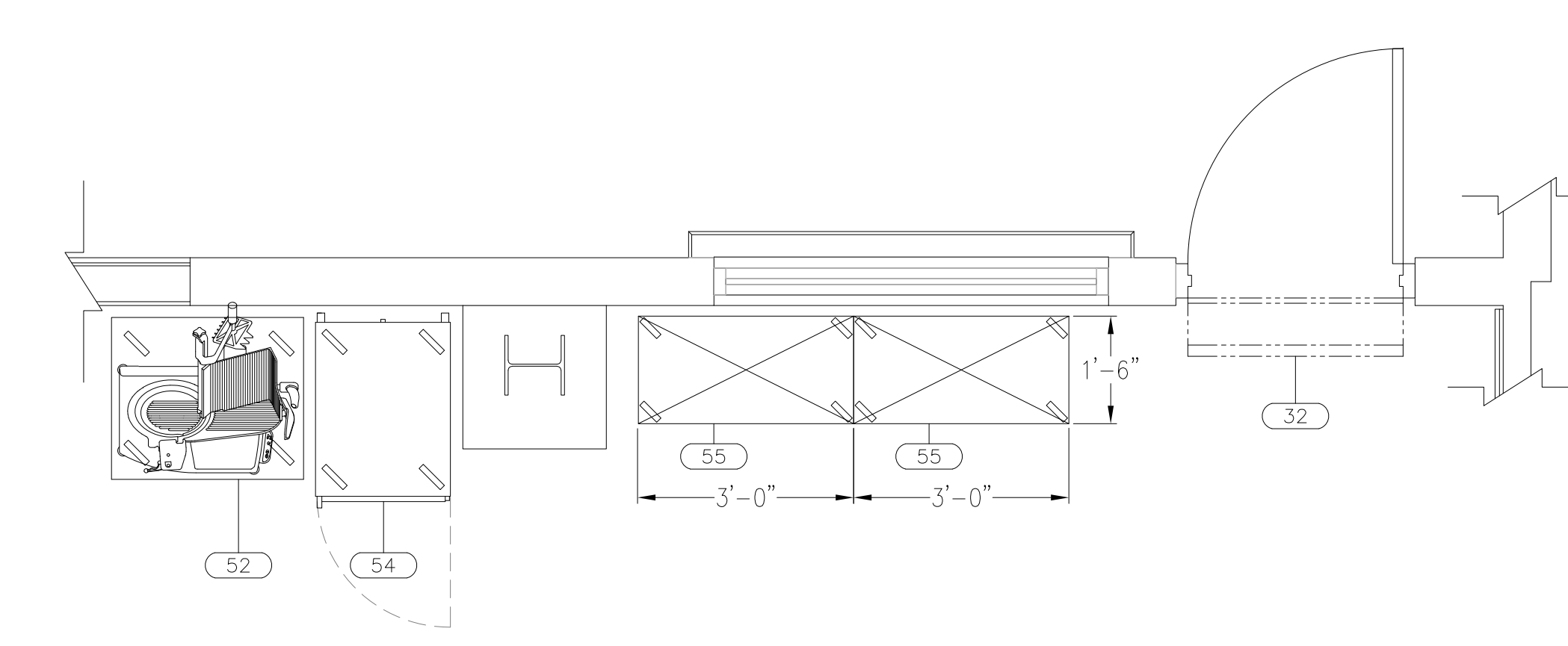
ELEVATION VIEW - C
SCALE: 1/2" = 1'-0"



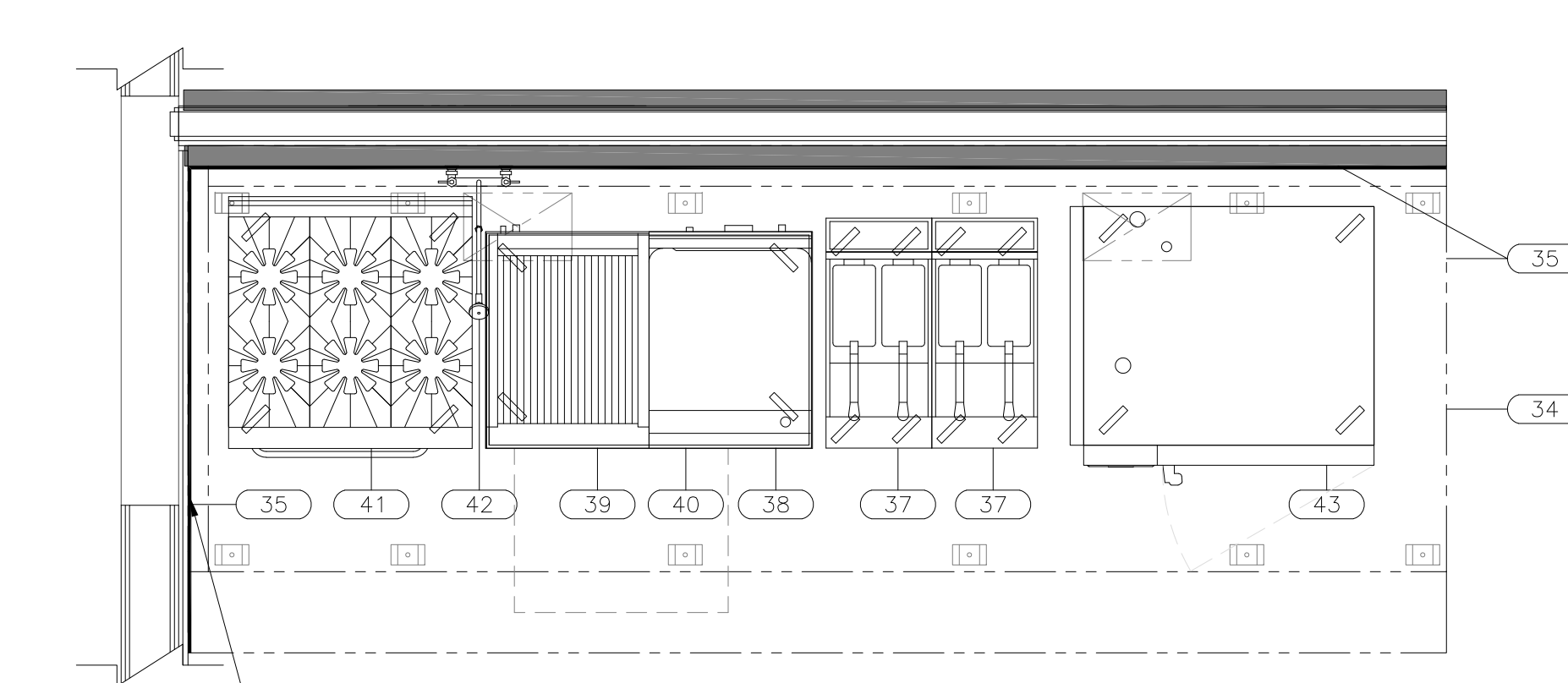
ELEVATION VIEW - B
SCALE: 1/2" = 1'-0"



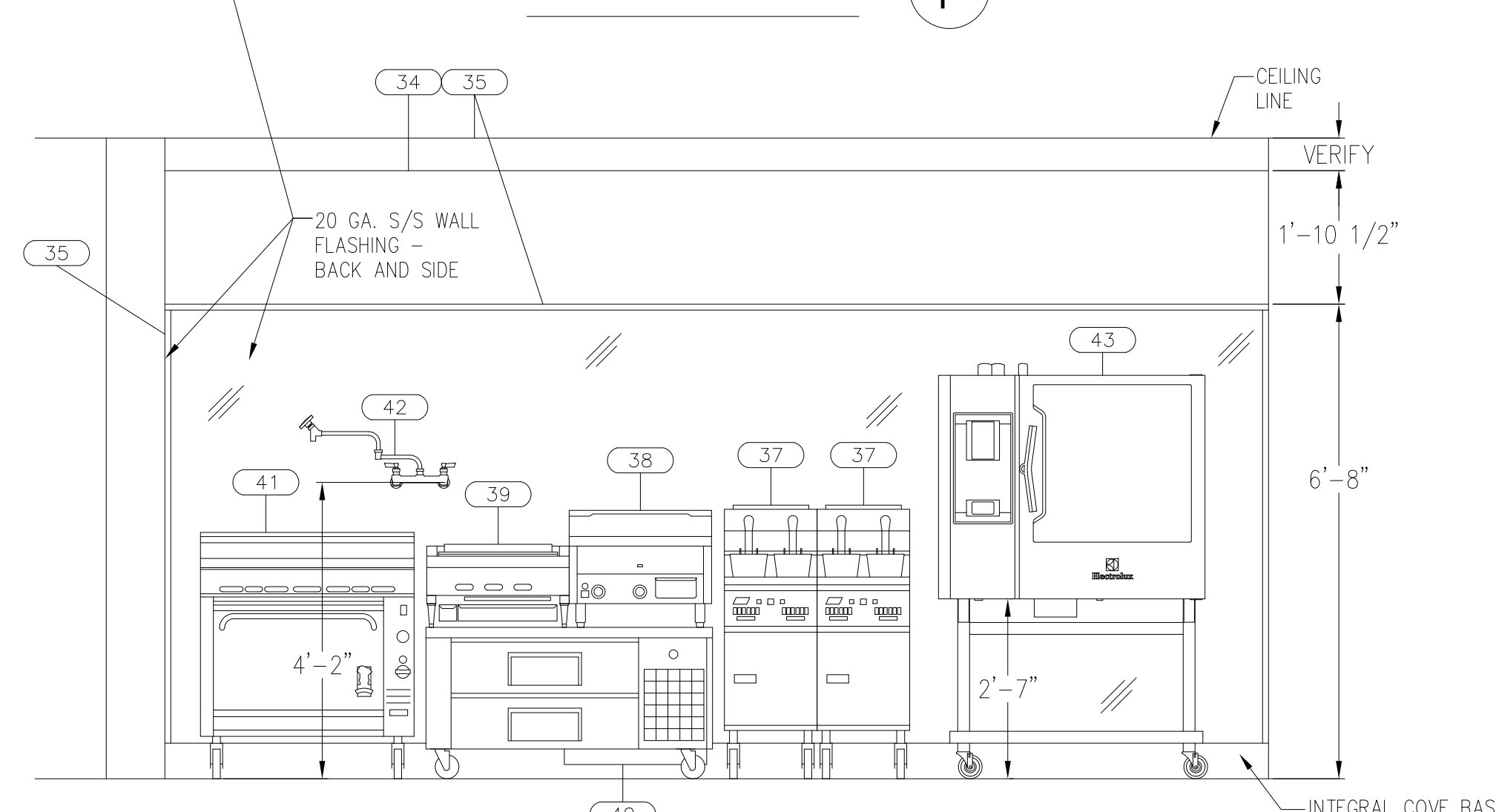
ELEVATION VIEW - D
SCALE: 1/2" = 1'-0"



ELEVATION VIEW - E
SCALE: 1/2" = 1'-0"
ITEM #32 (QUANTITY OF 2)



PLAN VIEW F



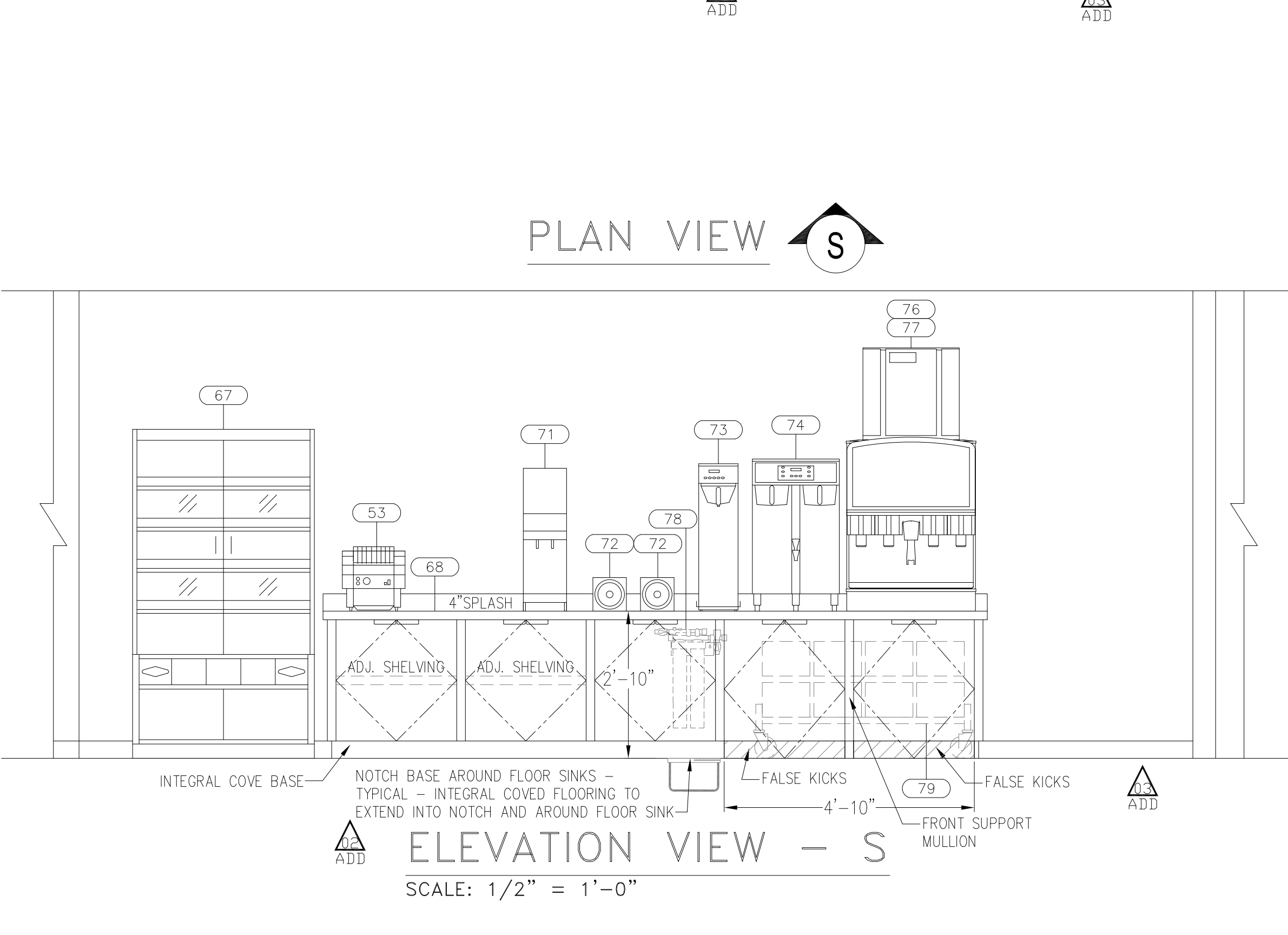
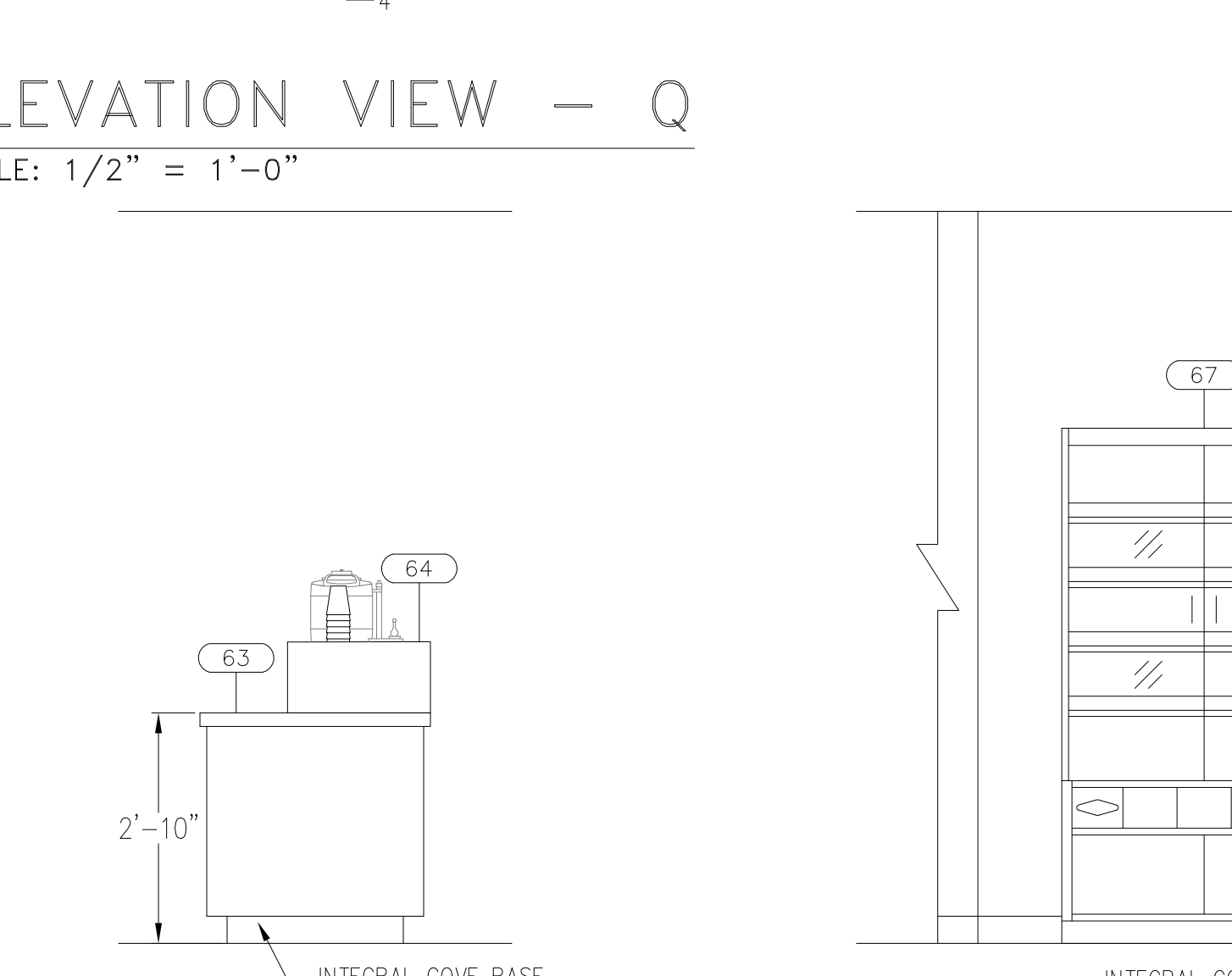
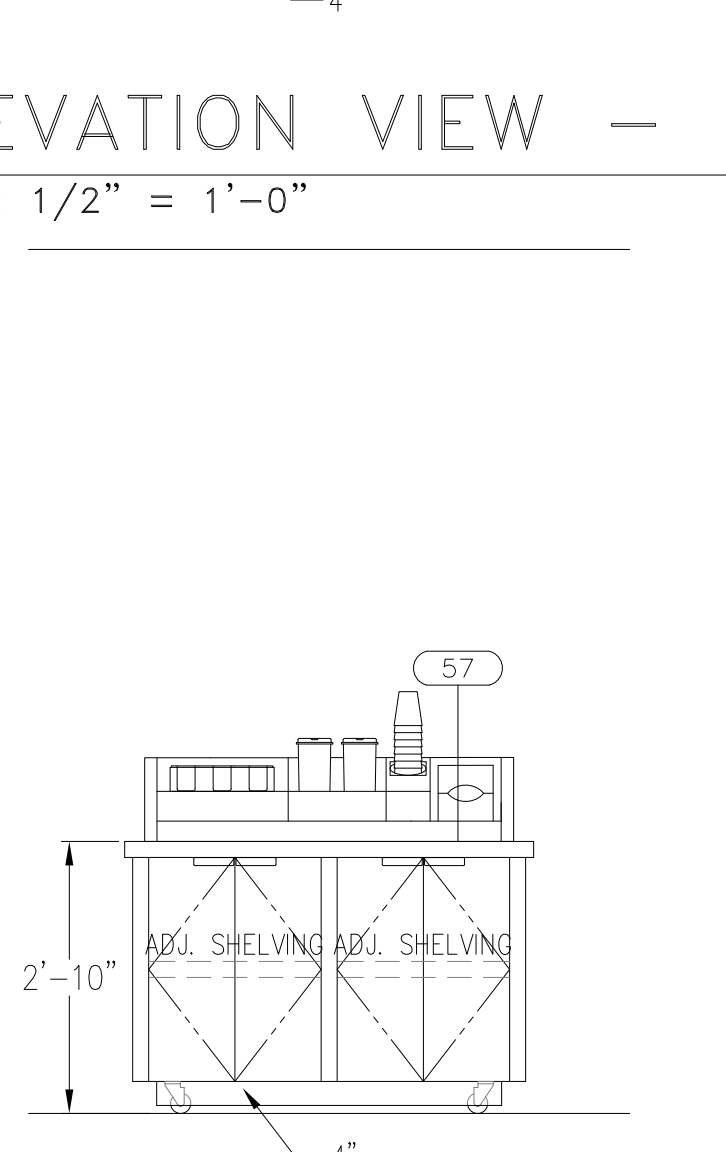
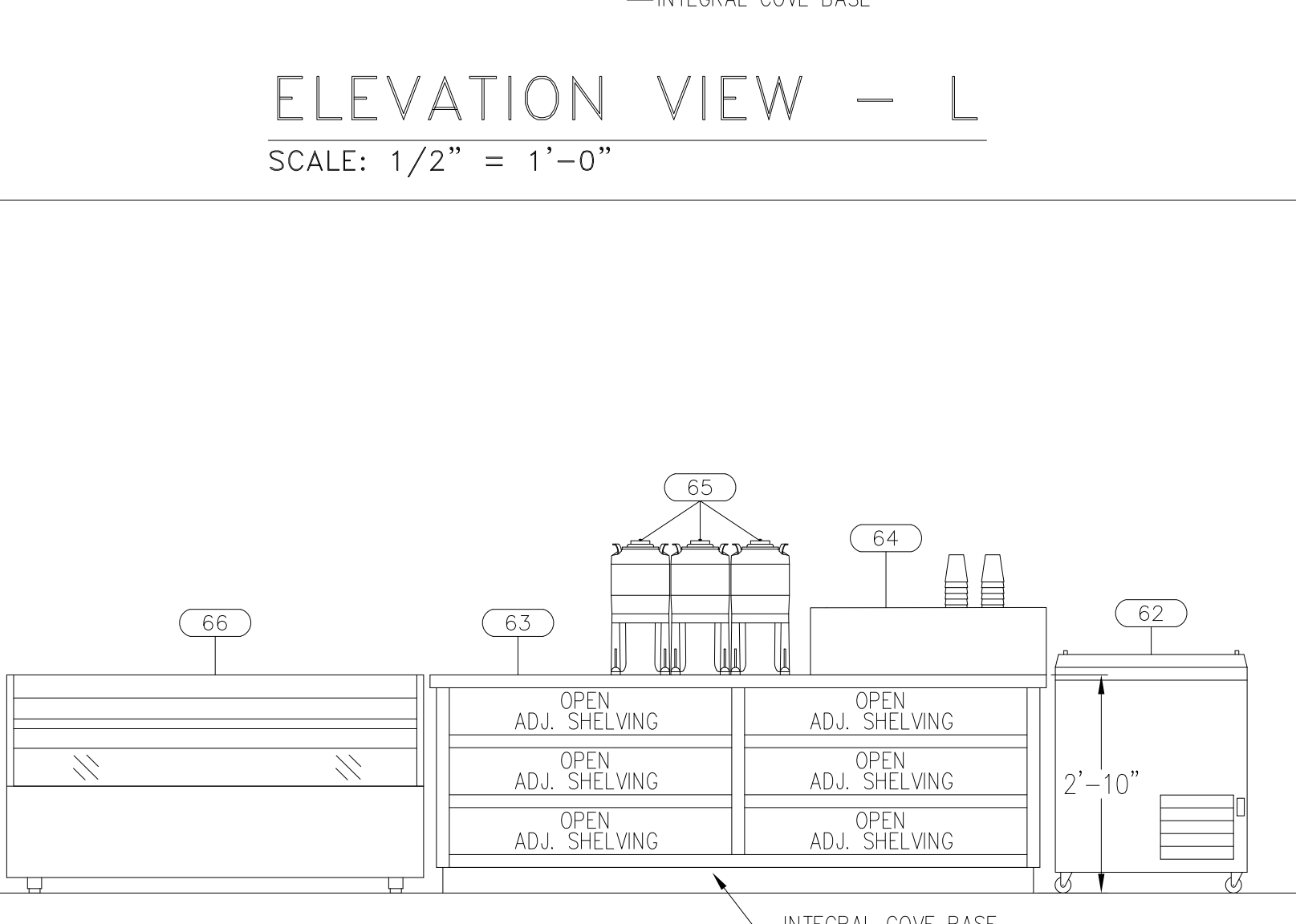
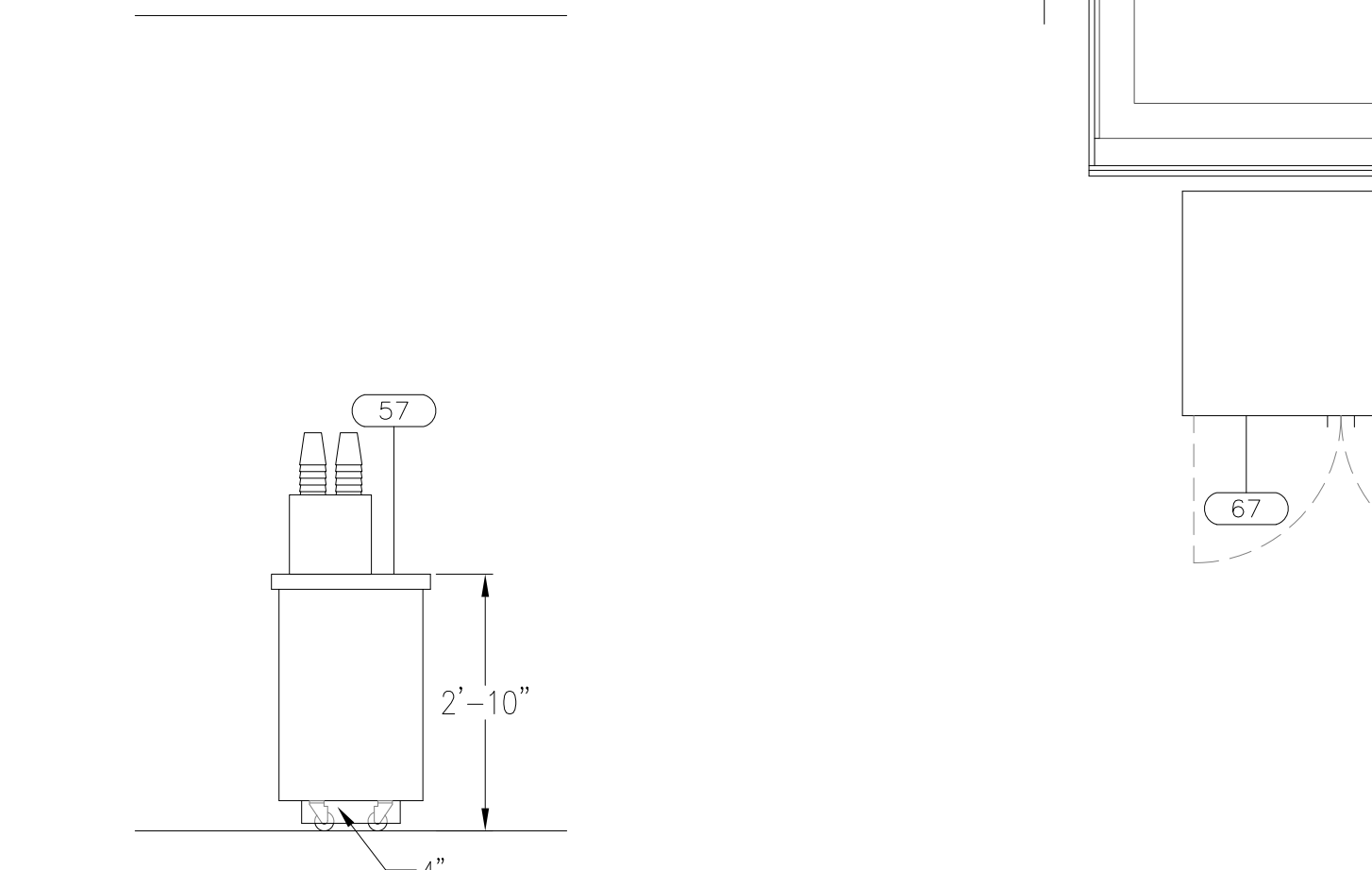
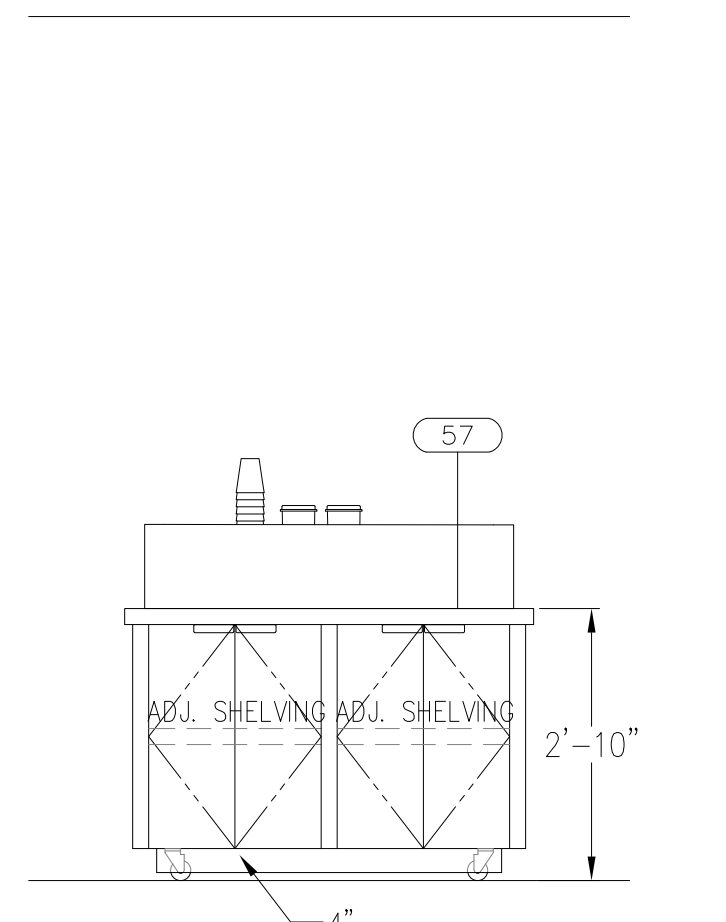
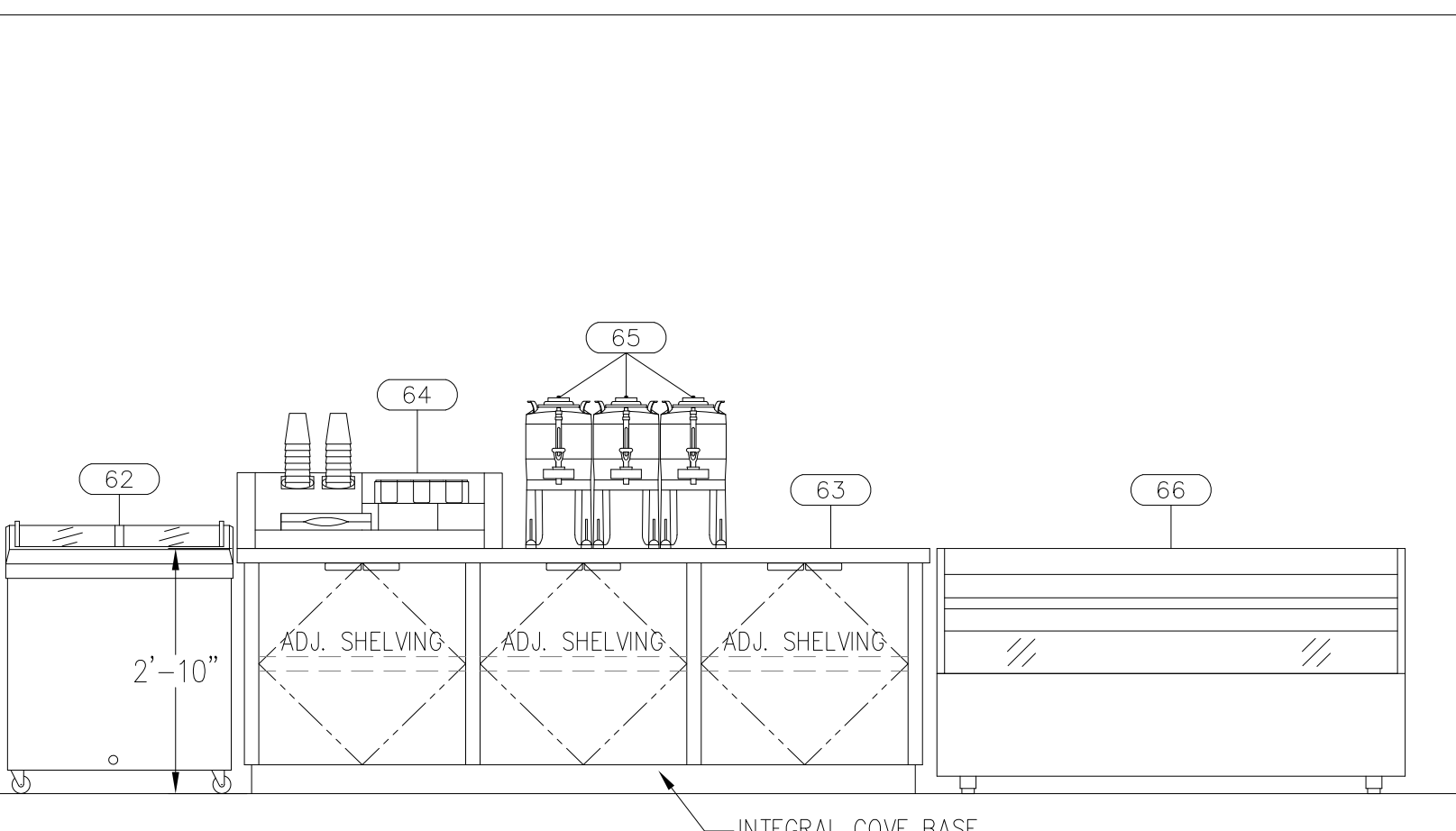
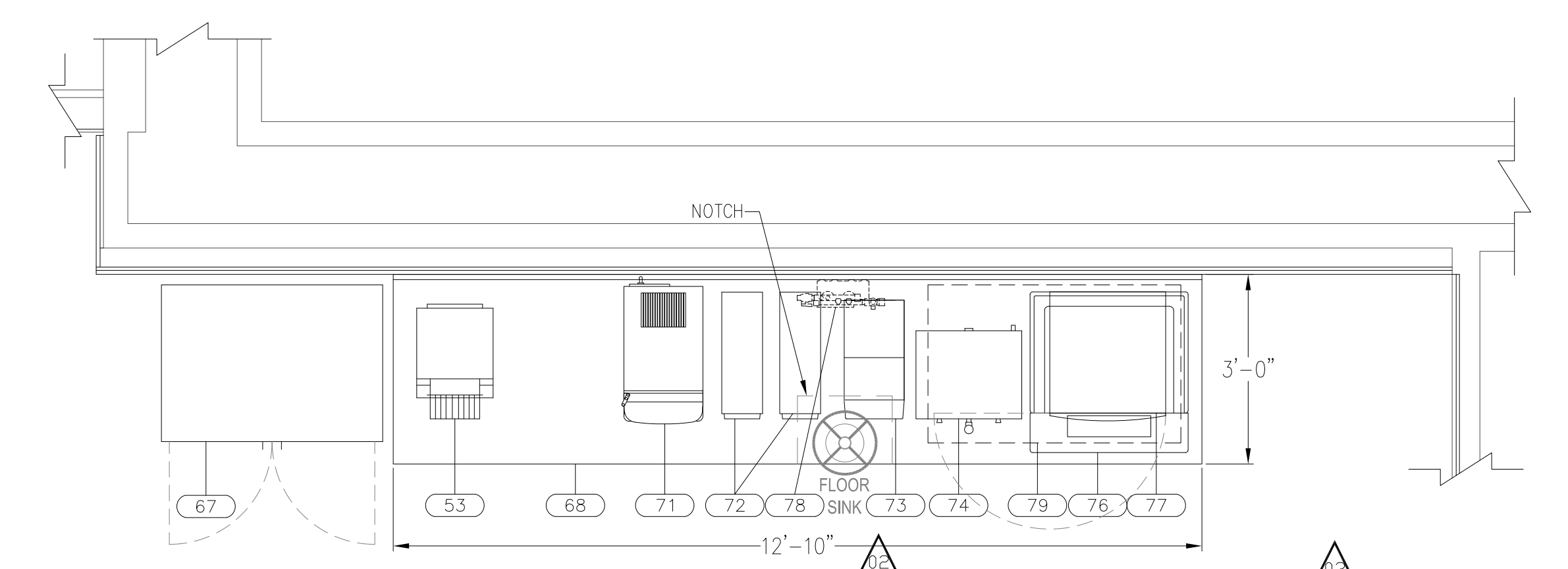
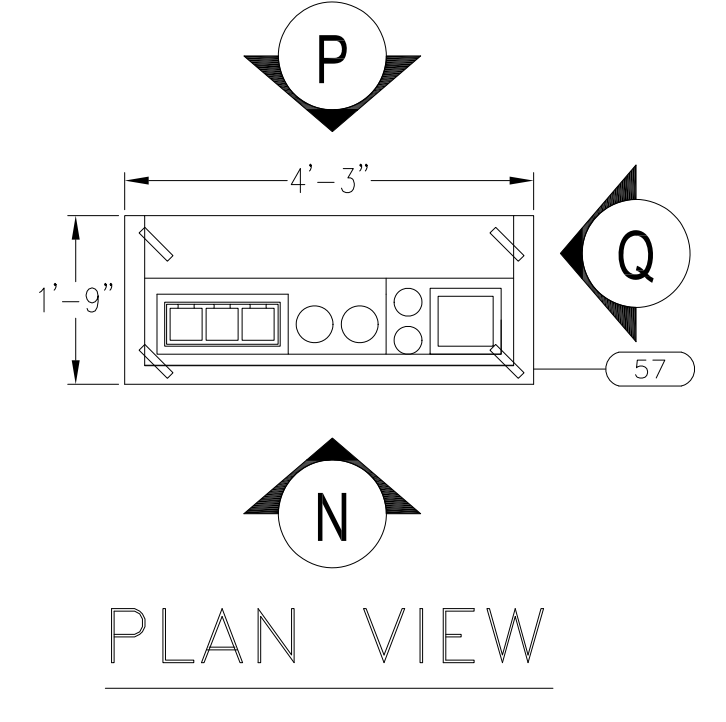
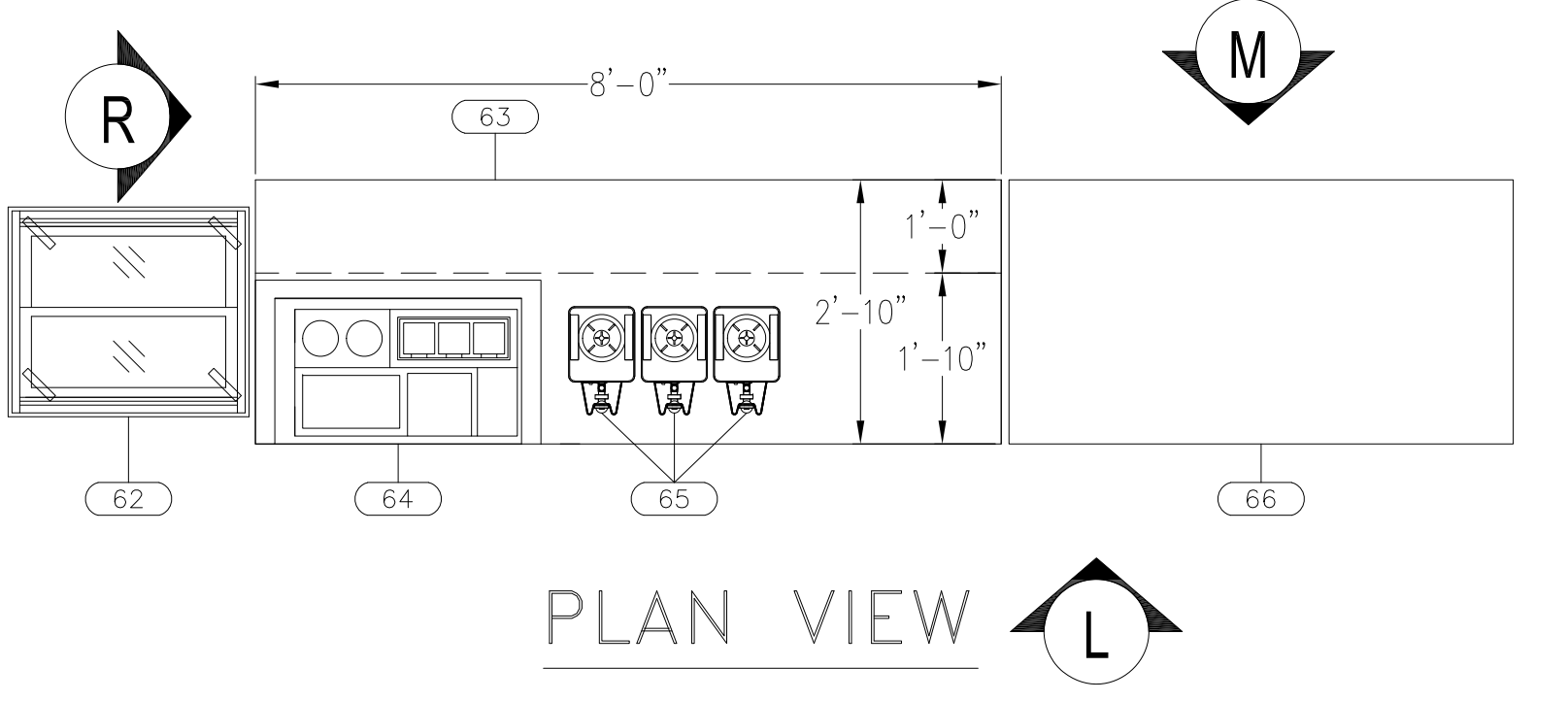
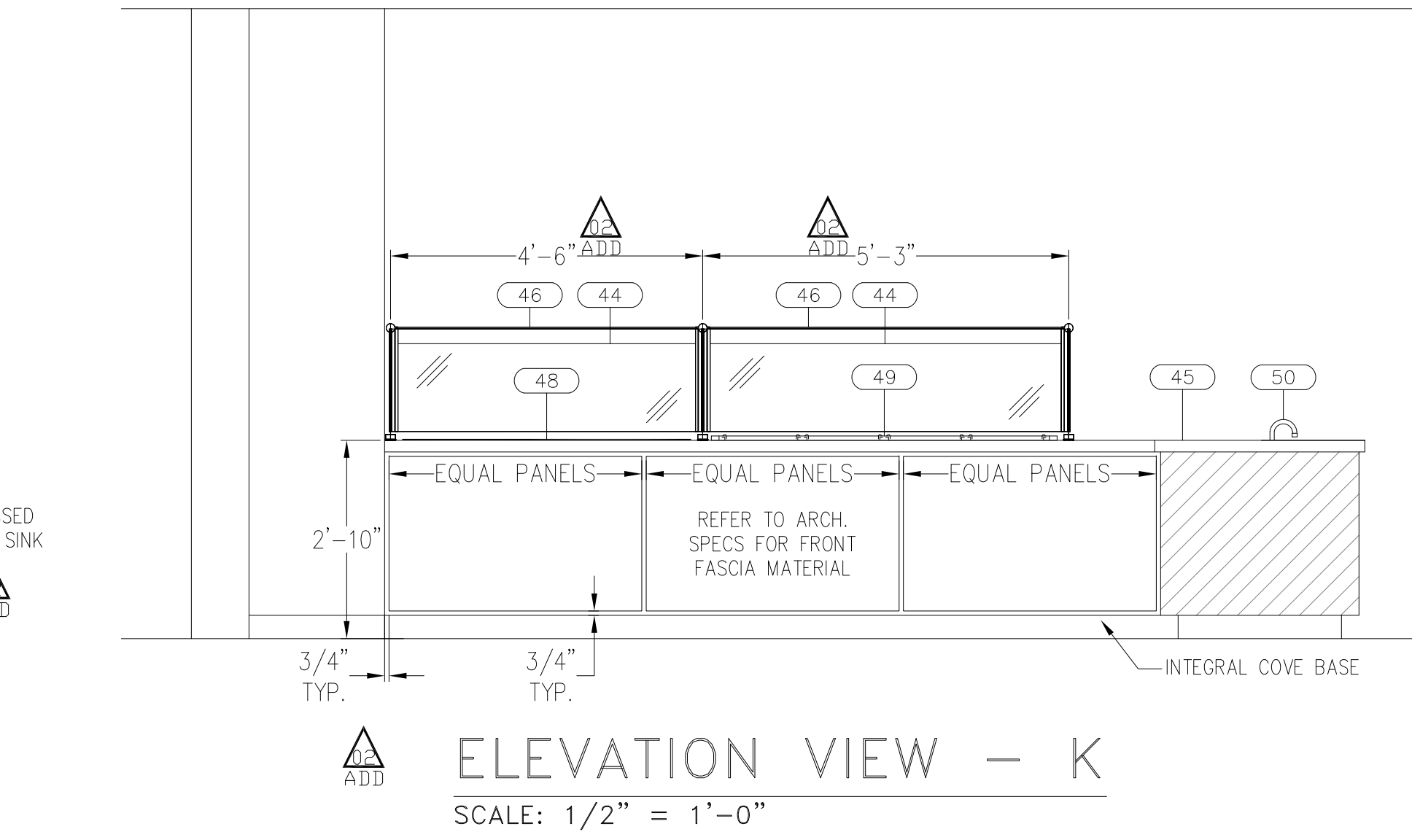
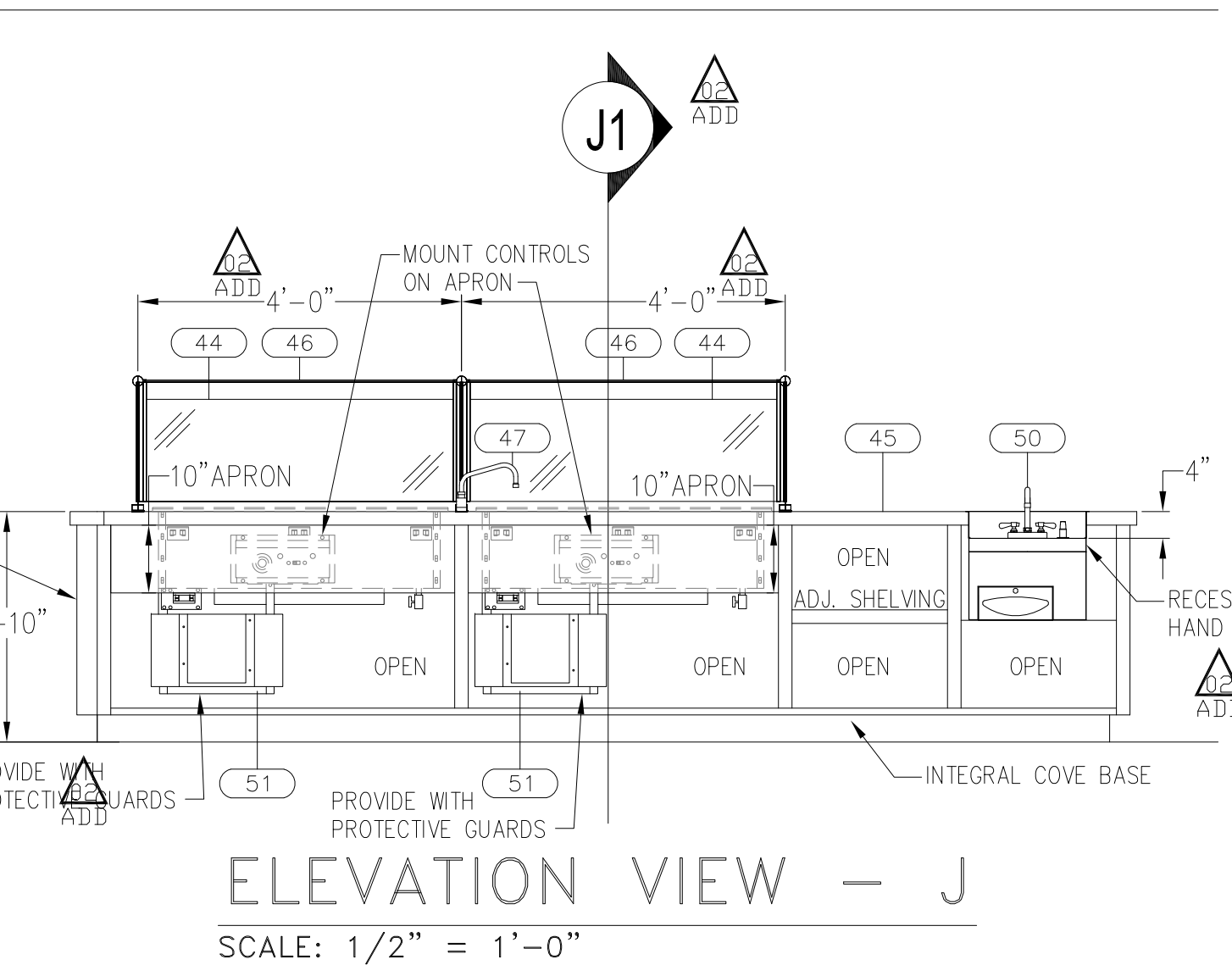
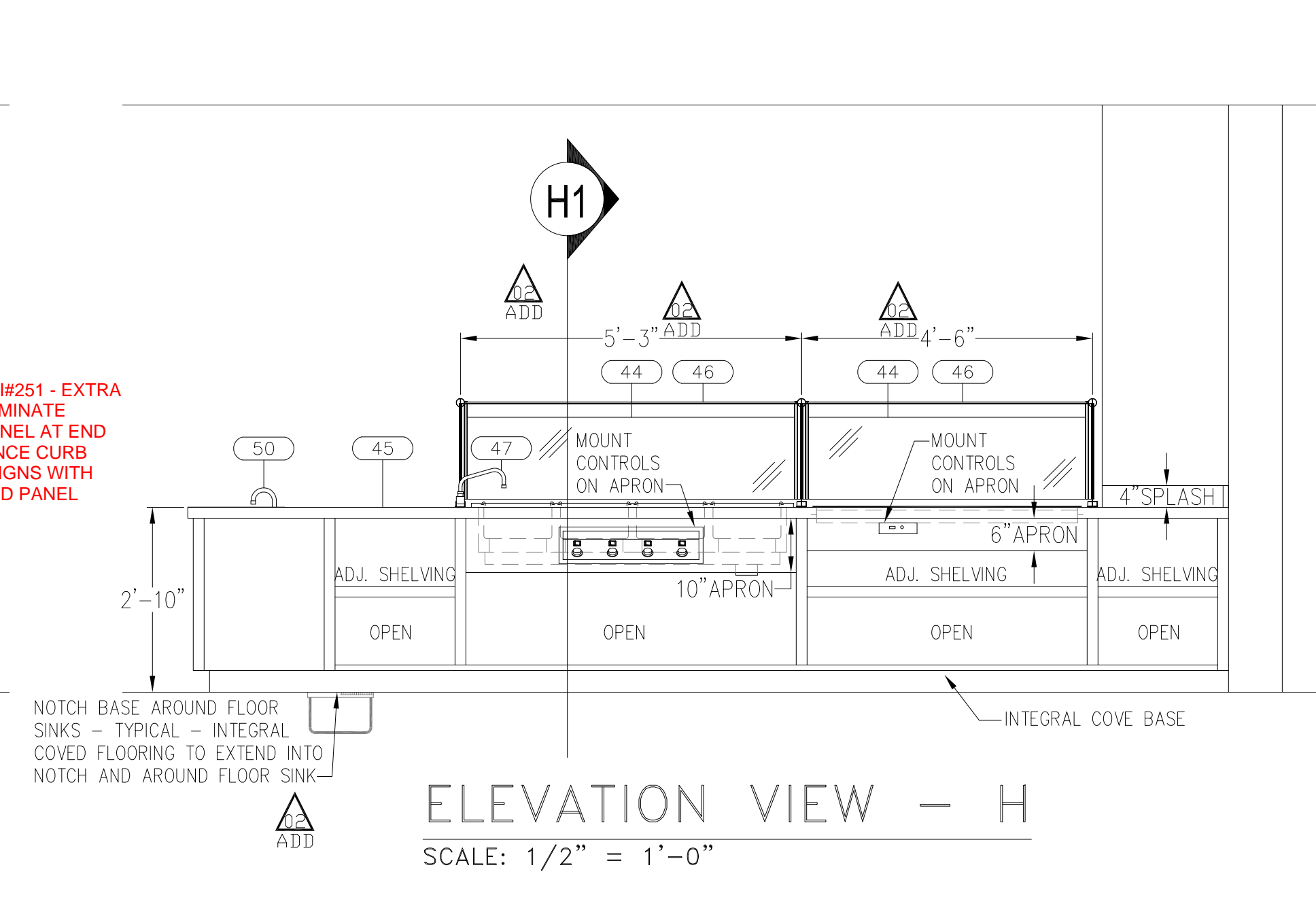
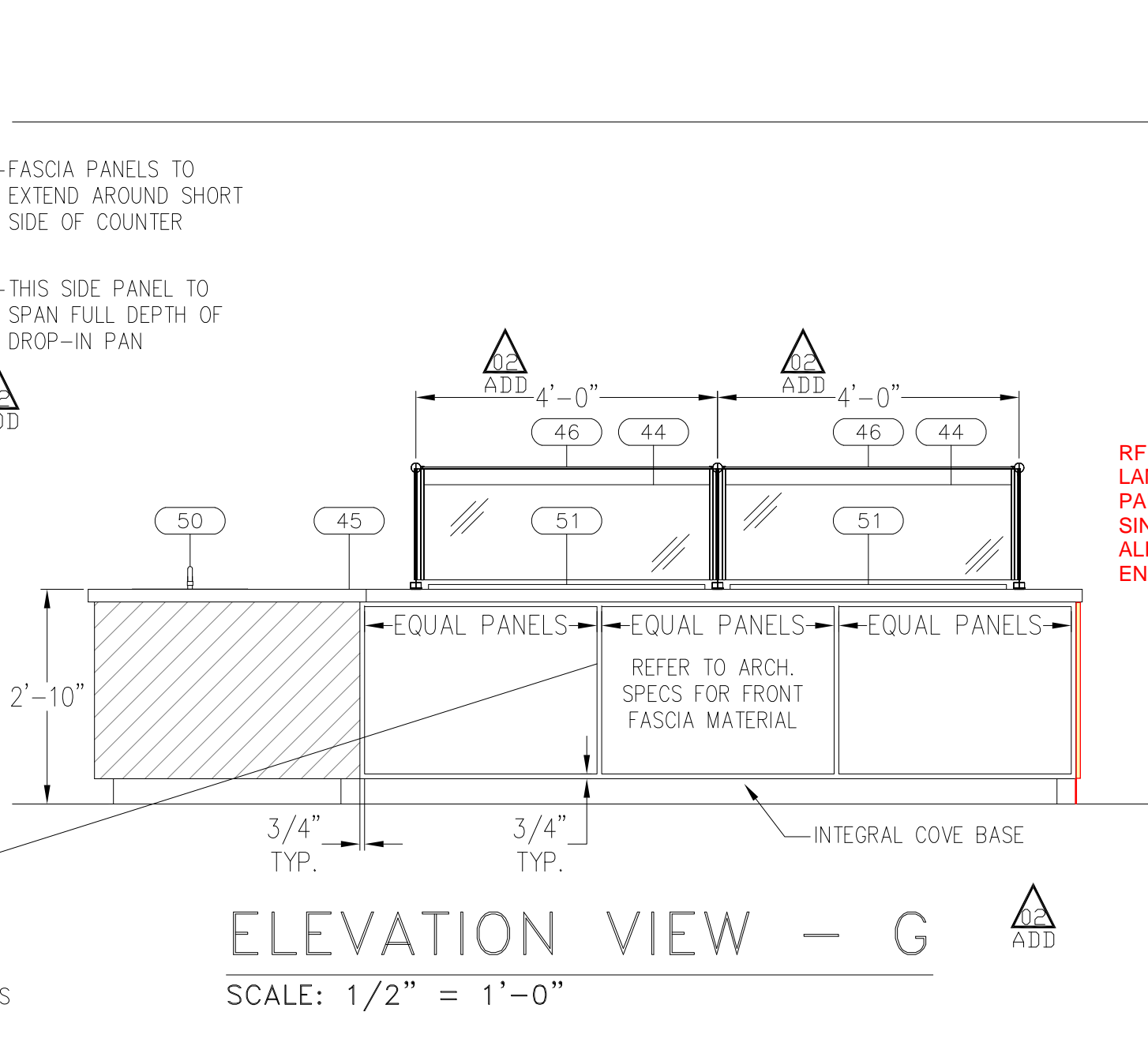
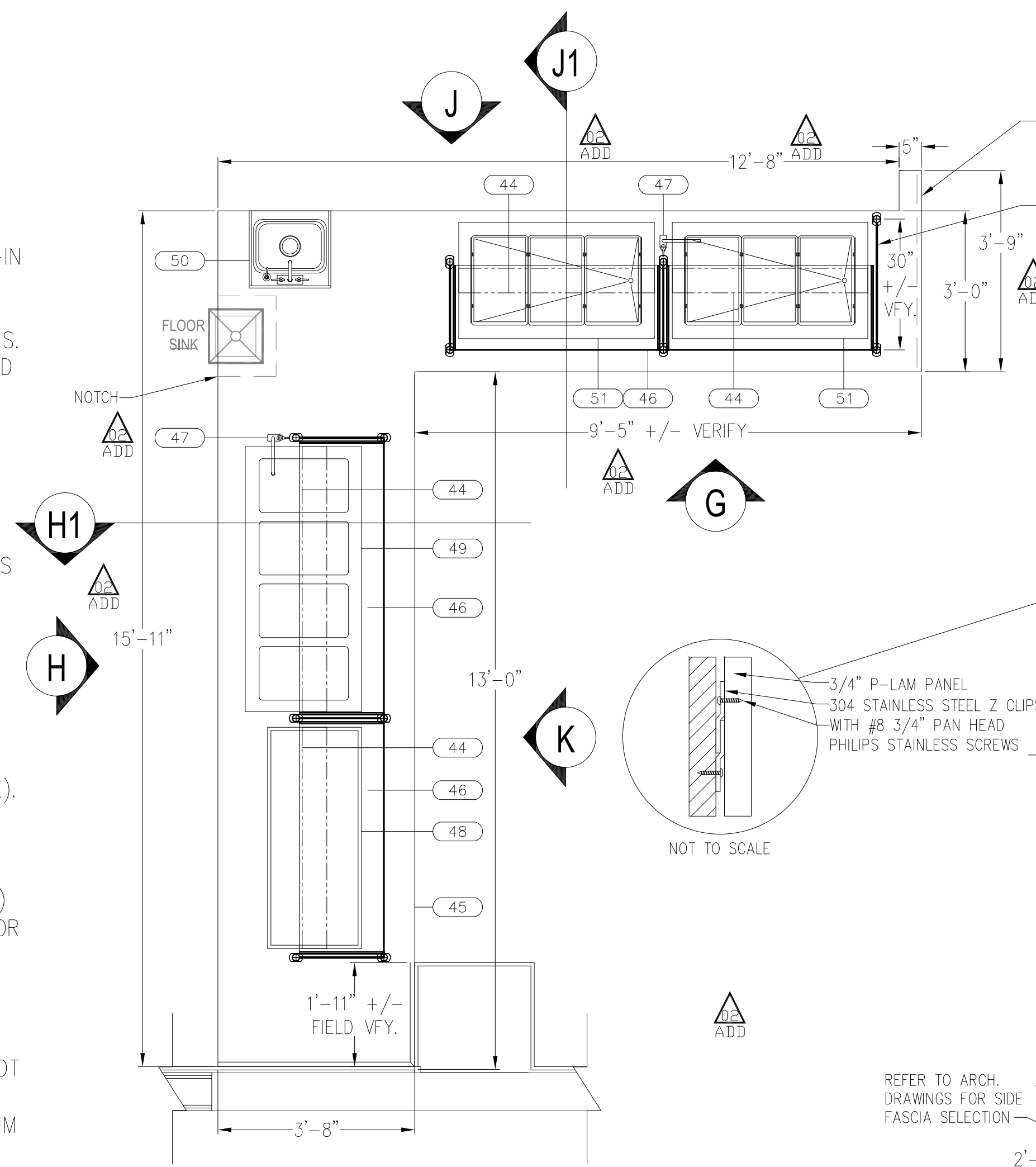
ELEVATION VIEW - F
SCALE: 1/2" = 1'-0"

GENERAL FABRICATION / EQUIPMENT INSTALLATION NOTES (APPLICABLE TO ALL SHEETS):

- A. CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
- B. CONTRACTOR TO VERIFY MATERIALS, FINISHES, HARDWARE, ETC., WITH ARCHITECT.
- C. CONTRACTOR TO VERIFY AND PROVIDE ALL CUTOUT DIMENSIONS FOR DROP-IN EQUIPMENT.
- D. CONTRACTOR TO COORDINATE WORK BETWEEN TRADES/SECTIONS.
- E. CONTRACTOR TO VERIFY FABRICATION AND INSTALLATION OF SNEEZE GUARDS.
- F. THESE DRAWINGS ARE NOT SHOP DRAWINGS AND SHALL NOT BE CONSIDERED AND USED AS SUCH.
- G. ALL S/S TOPS TO BE 14 GA S/S - UNLESS NOTED OTHERWISE.
- H. ALL UNDERSHELVES TO BE 16 GA S/S - UNLESS NOTED OTHERWISE.
- I. ALL CABINET BODY CONST TO BE 18 GA STAINLESS TO BE TYPE 304 #4 FINISH - UNLESS NOTED OTHERWISE.
- J. ALL LEGS AND FEET TO BE S/S 1-5/8" WITH S/S ADJUSTABLE FEET.
- K. USE STRAIGHT TURN-DOWN EDGE ALL CUSTOM FABRICATED TABLES/SHELVES ETC., UNLESS SHOWN OTHERWISE.
- L. ALL CUSTOM FABRICATED STAINLESS STEEL EQUIPMENT WILL BE CONSTRUCTED IN ACCORDANCE WITH NSF 2 STANDARDS AND WILL BE FABRICATED BY A NSF CERTIFIED FABRICATOR.
- M. ALL COUNTER TOPS, EXPOSED INTERIOR AND BELOW/UNDERSIDE OF TOP TO BE CONSTRUCTED OF SMOOTH, NON-ABSORBENT, EASILY CLEANABLE FINISH (E.G., ACCEPTABLE PLASTIC LAMINATE, STAINLESS STEEL, ETC., PAINT, VARNISH, LACQUER, OR POLYURETHANE FINISHED WOOD IS NOT ACCEPTABLE).
- N. FAUCETS, DRAINS AND FABRICATION ACCESSORIES PER GENERAL SPECIFICATIONS SECTION 11400, TYPICAL.
- O. ALL FABRICATION KITCHEN FAUCETS FOR HAND SINKS, PREP TABLES, AND POTWASH SINKS TO BE PROVIDED WITH ON/OFF CONTROLS AS FOLLOWS: (1) OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE GRASPING, PINCHING OR TWISTING OF THE WRIST; (2) REQUIRE NO MORE THAN 5-LBS. FORCE TO ACTIVATE; (3) BE LEVER OPERATED, PUSH-TYPE, ELECTRONICALLY CONTROLLED, OR SIMILAR. TYPICAL.
- P. ALL FOOD SERVICE EQUIPMENT ITEMS: WHERE SEPARATE FIXTURES ABUT EACH OTHER AS IN A BATTERY OF COOKING EQUIPMENT REFRIGERATORS, HOT CABINETS, TABLES, ETC., FSEC IS TO, JOIN/SEAL TO ELIMINATE CREVICES. WHERE FIXTURES PENETRATE OR ABUT WALLS, FIT WALL WITH MATCHING TRIM STRIPS AND/OR MATCHING SILICONE TO EDGES WITH TRIM MOLDING, OF MATCHING MATERIAL, TO CLOSE SPACES BETWEEN FIXTURE AND BUILDING STRUCTURE. AT WALL PENETRATIONS, MOUNT FIXTURE ON ENCLOSED CHANNEL BASE OF SIMILAR MATERIAL TO CLOSE SPACES, WHERE SPECIFIED.

GENERAL FABRICATION / EQUIPMENT INSTALLATION NOTES (APPLICABLE TO ALL SHEETS):

- A. CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
- B. CONTRACTOR TO VERIFY MATERIALS, FINISHES, HARDWARE, ETC., WITH ARCHITECT.
- C. CONTRACTOR TO VERIFY AND PROVIDE ALL CUTOUT DIMENSIONS FOR DROP-IN EQUIPMENT.
- D. CONTRACTOR TO COORDINATE WORK BETWEEN TRADES/SECTIONS.
- E. CONTRACTOR TO VERIFY FABRICATION AND INSTALLATION OF SNEEZEE GUARDS. THESE DRAWINGS ARE NOT SHOP DRAWINGS AND SHALL NOT BE CONSIDERED AND USED AS SUCH.
- G. ALL S/S TOPS TO BE 14 GA S/S - UNLESS NOTED OTHERWISE.
- H. ALL UNDERSHELVES TO BE 16 GA S/S - UNLESS NOTED OTHERWISE.
- I. ALL CABINET BODY CONST TO BE 18 GA STAINLESS TO BE TYPE 304 #4 FINISH - UNLESS NOTED OTHERWISE.
- J. ALL LEGS AND FEET TO BE S/S 1-5/8" WITH S/S ADJUSTABLE FEET.
- K. USE STRAIGHT TURN-DOWN EDGE ALL CUSTOM FABRICATED TABLES/SHELVES ETC., UNLESS SHOWN OTHERWISE.
- L. ALL CUSTOM FABRICATED STAINLESS STEEL EQUIPMENT WILL BE CONSTRUCTED IN ACCORDANCE WITH NSF 2 STANDARDS AND WILL BE FABRICATED BY A NSF CERTIFIED FABRICATOR.
- M. ALL COUNTER TOPS, EXPOSED INTERIOR AND BELOW/UNDERSIDE OF TOP TO BE CONSTRUCTED OF SMOOTH, NON-ABSORBENT, EASILY CLEANABLE FINISH (E.G., ACCEPTABLE PLASTIC LAMINATE, STAINLESS STEEL, ETC., PAINT, VARNISH, LACQUER, OR POLYURETHANE FINISHED WOOD IS NOT ACCEPTABLE).
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ELEVATION VIEW - L
SCALE: 1/2" = 1'-0"

ELEVATION VIEW - N
SCALE: 1/2" = 1'-0"

ELEVATION VIEW - Q
SCALE: 1/2" = 1'-0"

ELEVATION VIEW - M
SCALE: 1/2" = 1'-0"

ELEVATION VIEW - P
SCALE: 1/2" = 1'-0"

ELEVATION VIEW - R
SCALE: 1/2" = 1'-0"

ELEVATION VIEW - S
SCALE: 1/2" = 1'-0"

APPROVALS

NOLL & TAM
ARCHITECTS

729 Heinz Avenue
Berkeley, CA 94710
tel 510.542.2200
fax 510.542.2201

ARCHITECTS SEAL

CHRISTOPHER NOLL
No. C15916
REN. 12-31-19
STATE OF CALIFORNIA

RAS
Design Group
RAS Design Group Inc.
Foodservice and Laundry
Consulting
439 Eucher Street
Martinez, CA 94552
Phone: 925.872.0222
Email: ras@rasdesign.com
Website: rasdesign.com

FCSI

PROJECT TITLE

**CONTRA COSTA
CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION &
RENOVATION**

1690 Watermill Rd.
San Ramon, CA 94582

RECORD SET:
THESE DRAWINGS HAVE BEEN PREPARED FROM ADDENDUMS, CCD'S, ASIS AND SELECT RFIS OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM. ONLY A SELECT FEW AS-BUILTS WERE SUBMITTED.

ISSUE TITLE

INCREMENT 2

ISSUE DATE 9/1/2023

NOLL & TAM JOB NUMBER 21630

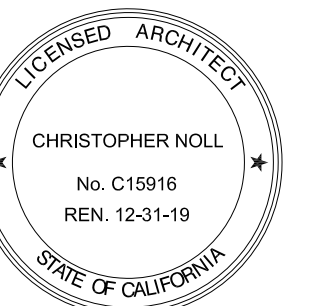
| REVISIONS | DATE | DESCRIPTION |
|-----------|---------------------|-------------|
| 8/2/19 | INC 2 - ADDENDUM 02 | |
| 8/27/19 | INC 2 - ADDENDUM 03 | |
| 4/15/21 | CCD 111 | |

SHEET TITLE

**FIRST FLOOR CAFE
FOOD SERVICE
EQUIPMENT ELEVATION
DETAILS**

SHEET NUMBER

FS2.2.2



RAS
Design Group
Foodservice and Laundry
Consulting
439 Boulder Street
Martinez, CA 94552
Phone: 925.872.0222
Email: ras@rasdesign.com
Website: rasdesign.com



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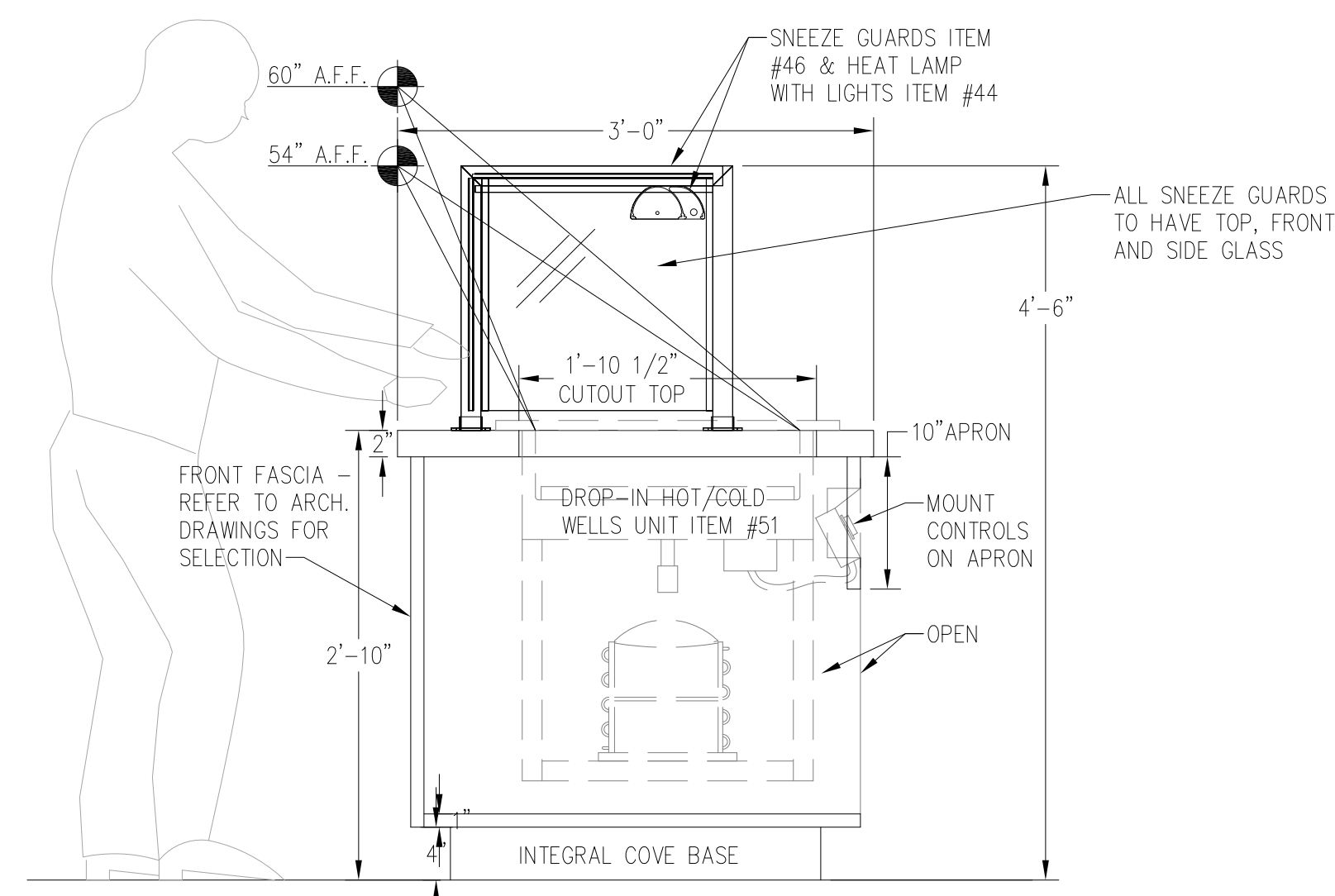
1690 Watermill Rd.
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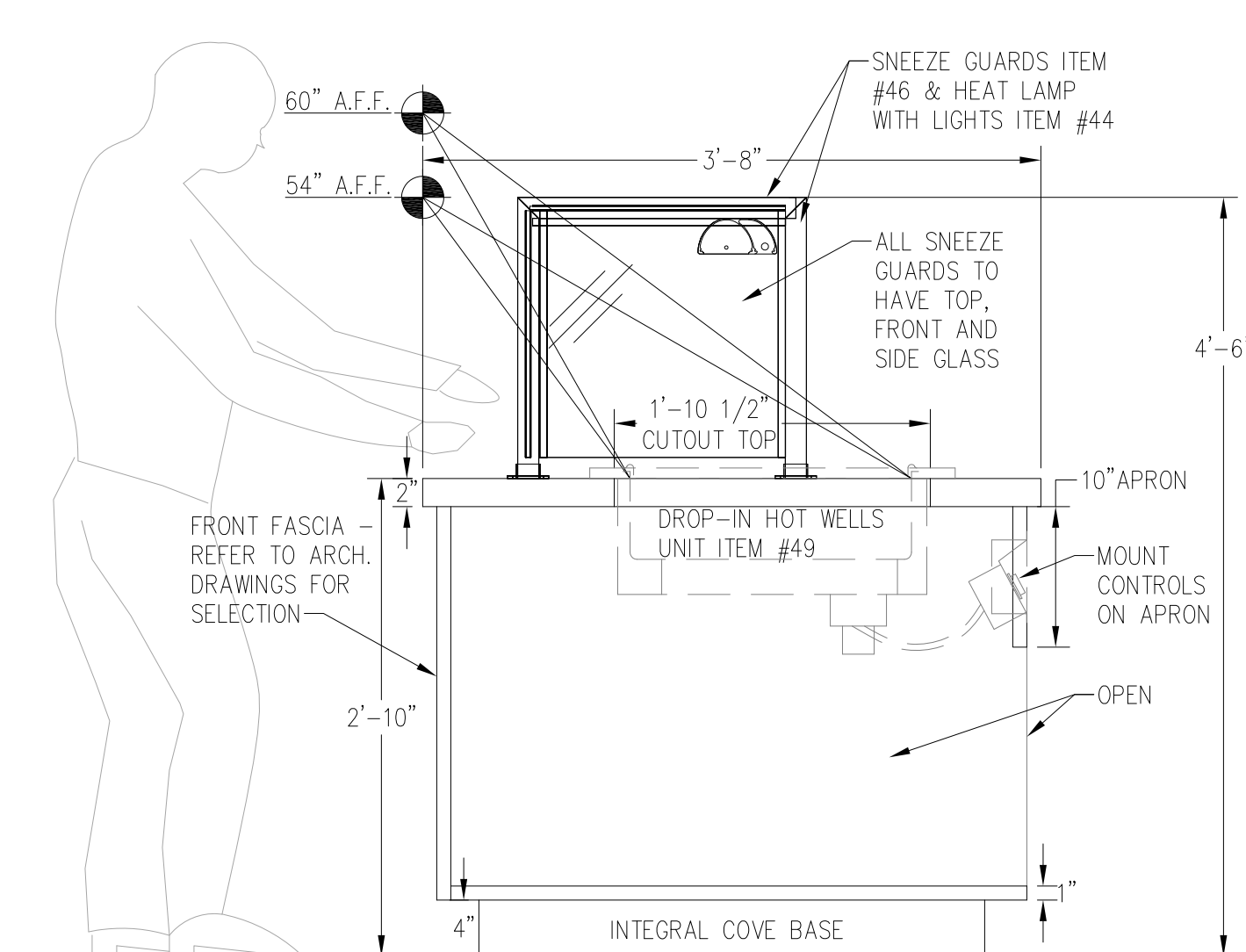
INCREMENT 2

| REVISIONS | DATE | DESCRIPTION |
|-----------|---------------------|-------------|
| 8/27/19 | INC 2 - ADDENDUM 02 | |
| 4/15/21 | INC 2 - ADDENDUM 03 | |
| | CCD 111 | |

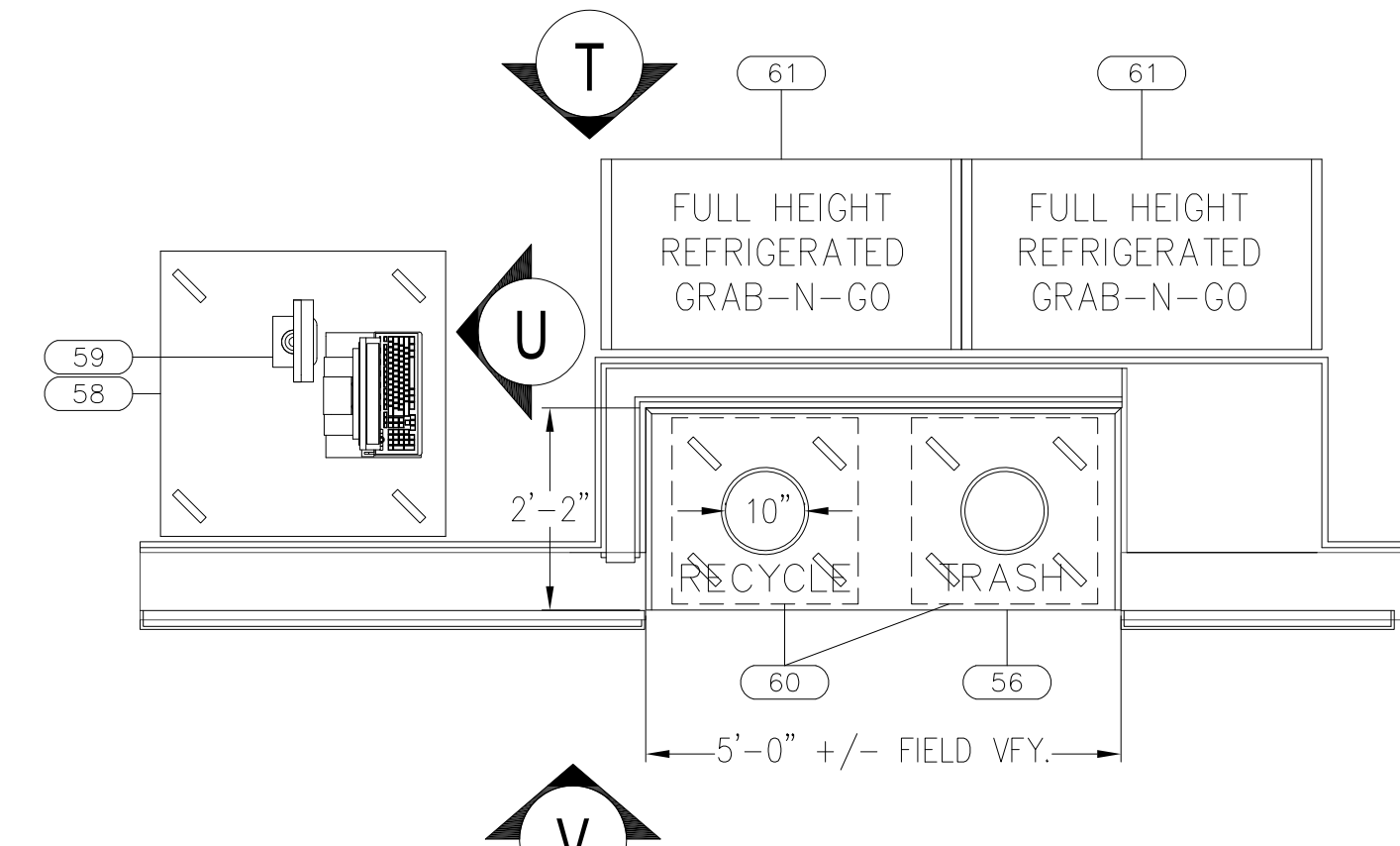
SHEET TITLE
**FIRST FLOOR CAFE
FOOD SERVICE
EQUIPMENT ELEVATION
AND FABRICATION
DETAILS**



SECTION VIEW - J1
SCALE: 1" = 1'-0"



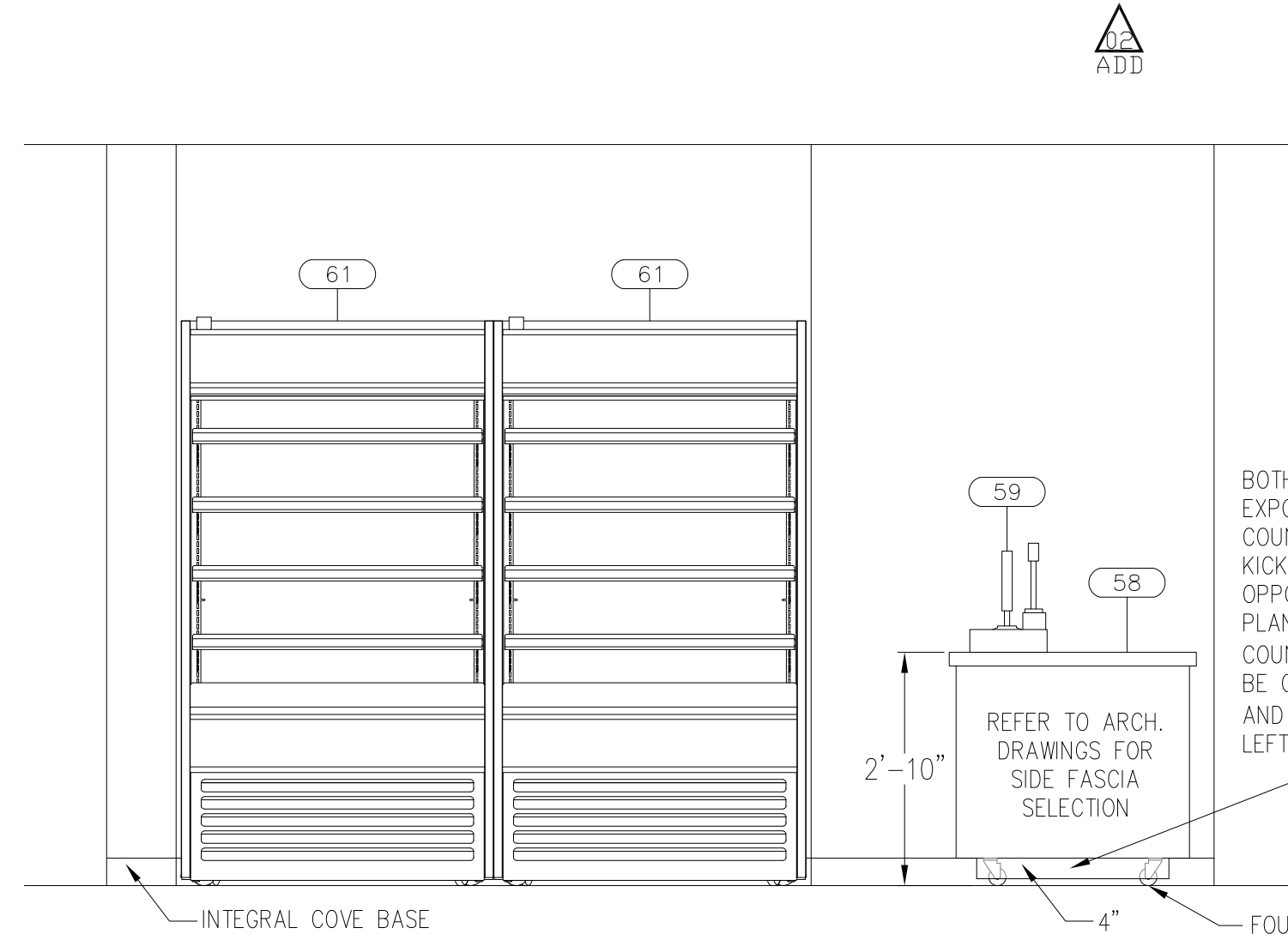
SECTION VIEW - H1
SCALE: 1" = 1'-0"



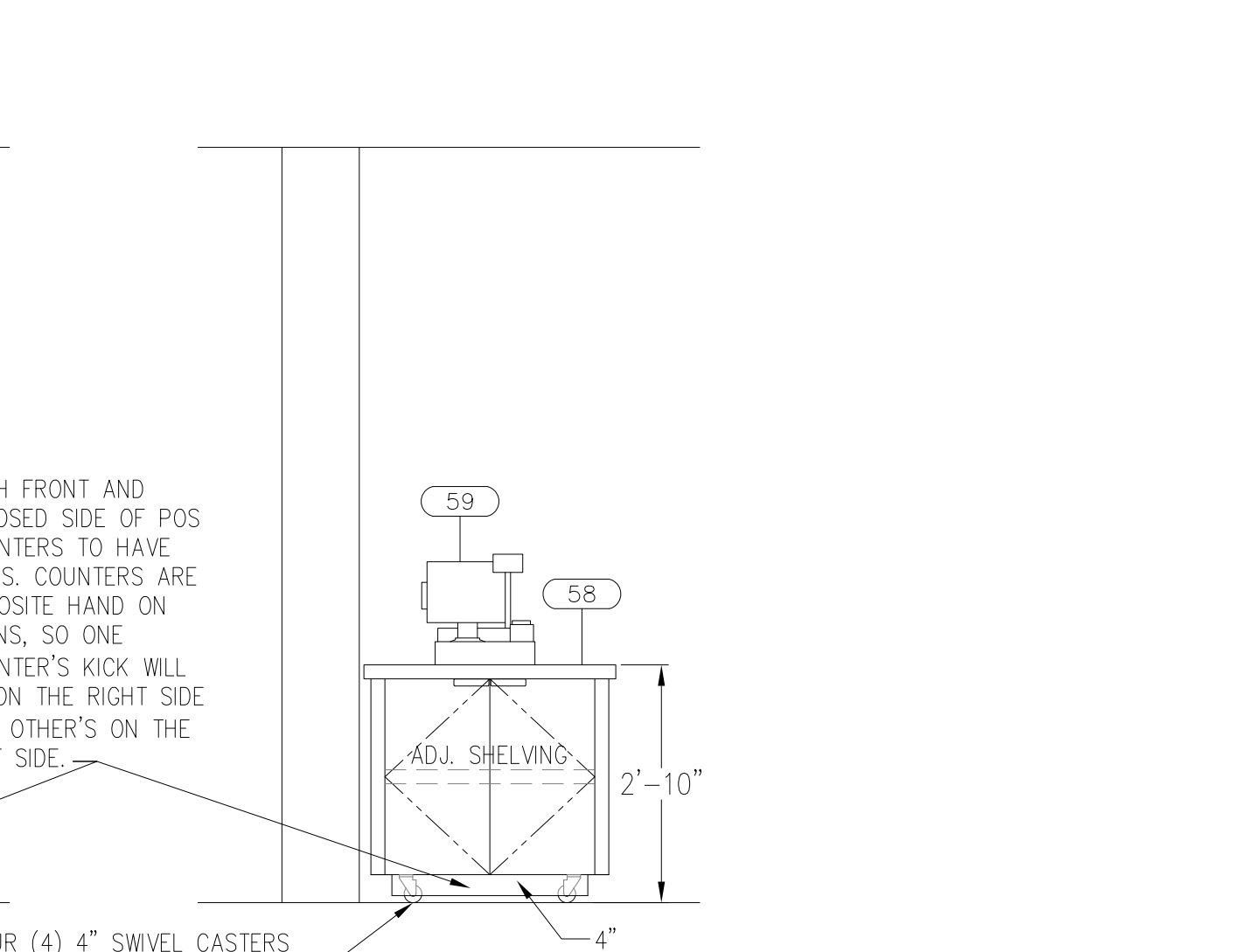
PLAN VIEW

GENERAL FABRICATION / EQUIPMENT INSTALLATION NOTES (APPLICABLE TO ALL SHEETS):

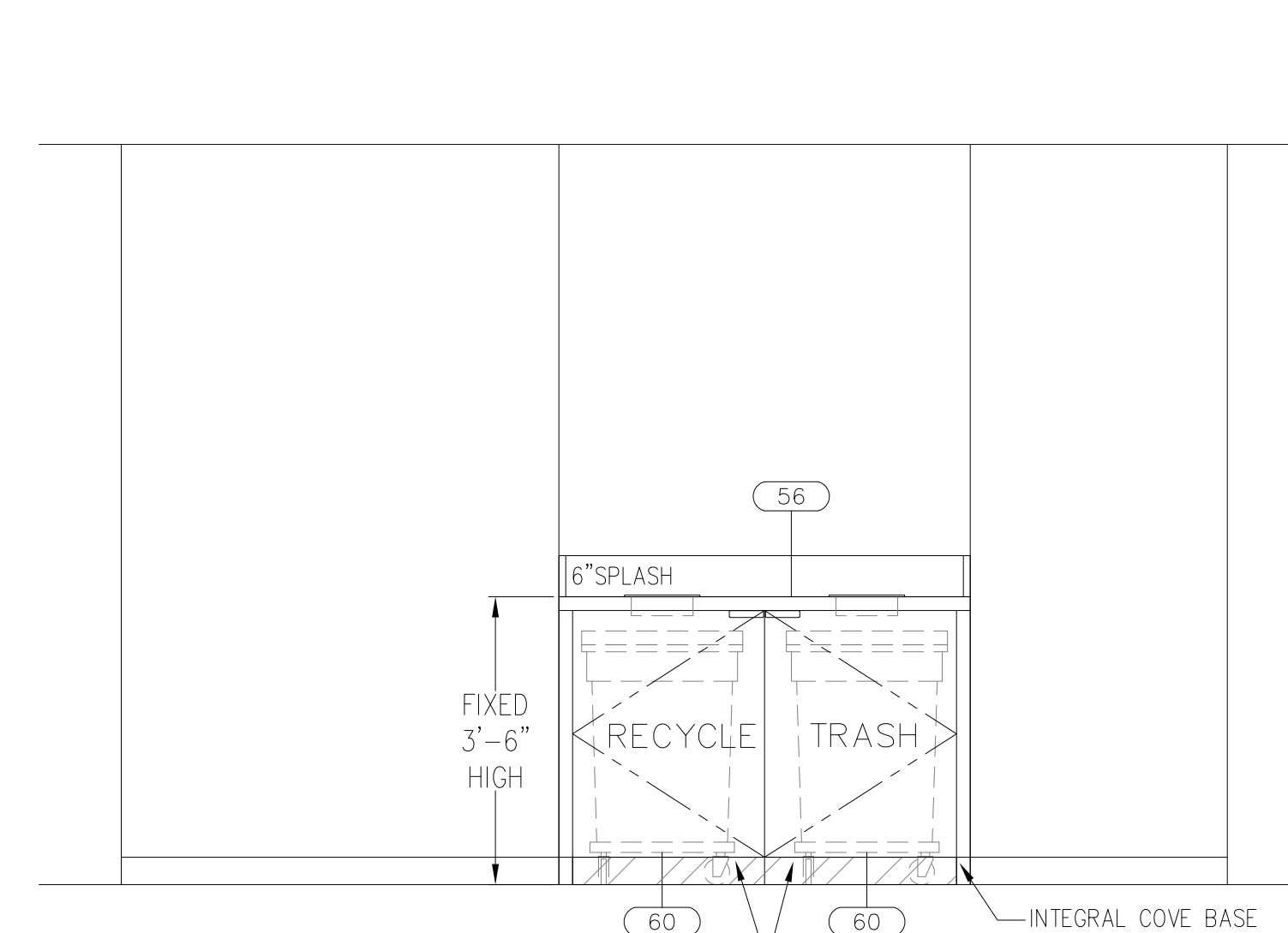
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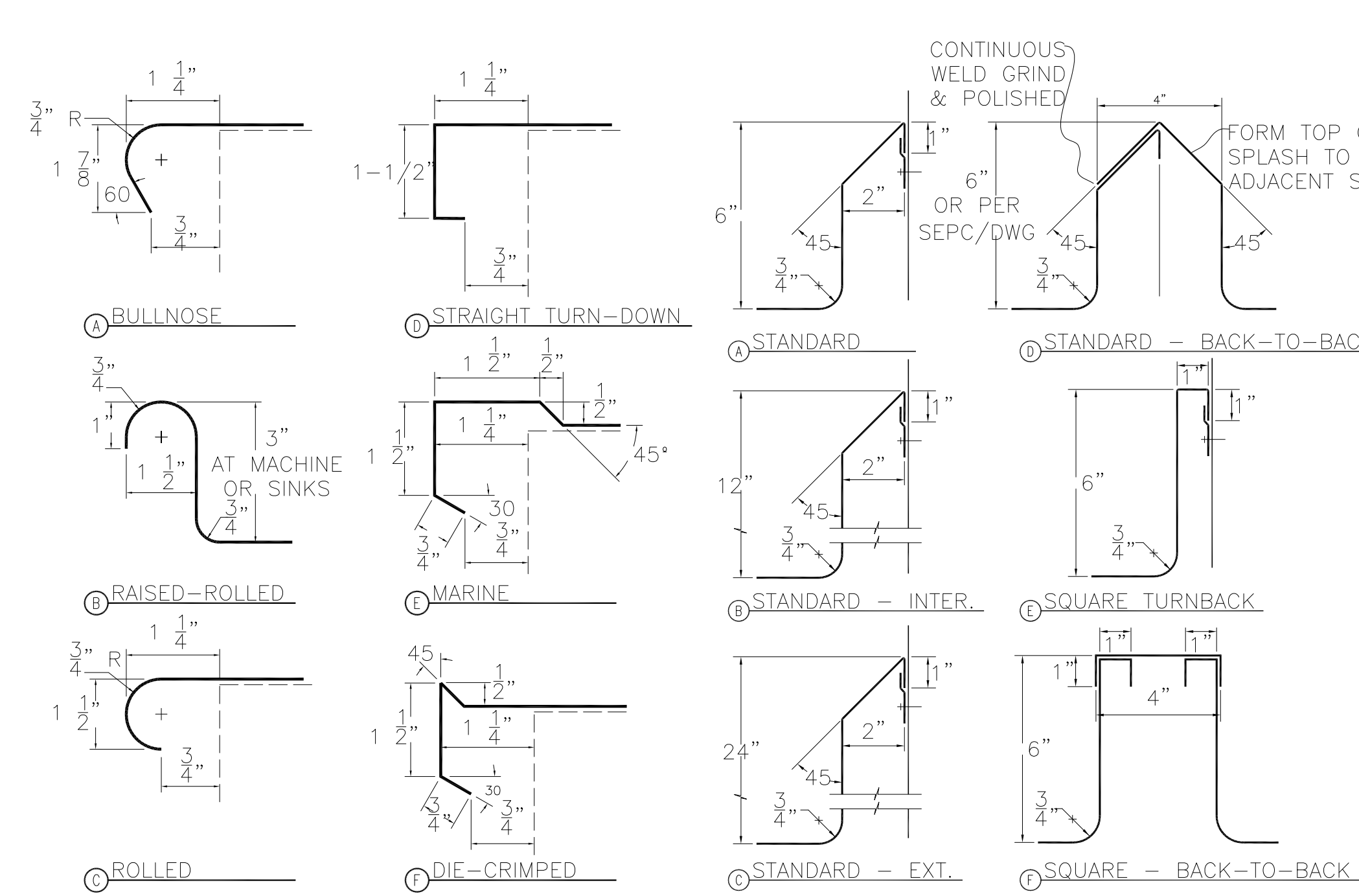
ELEVATION VIEW - T
SCALE: 1/2" = 1'-0"



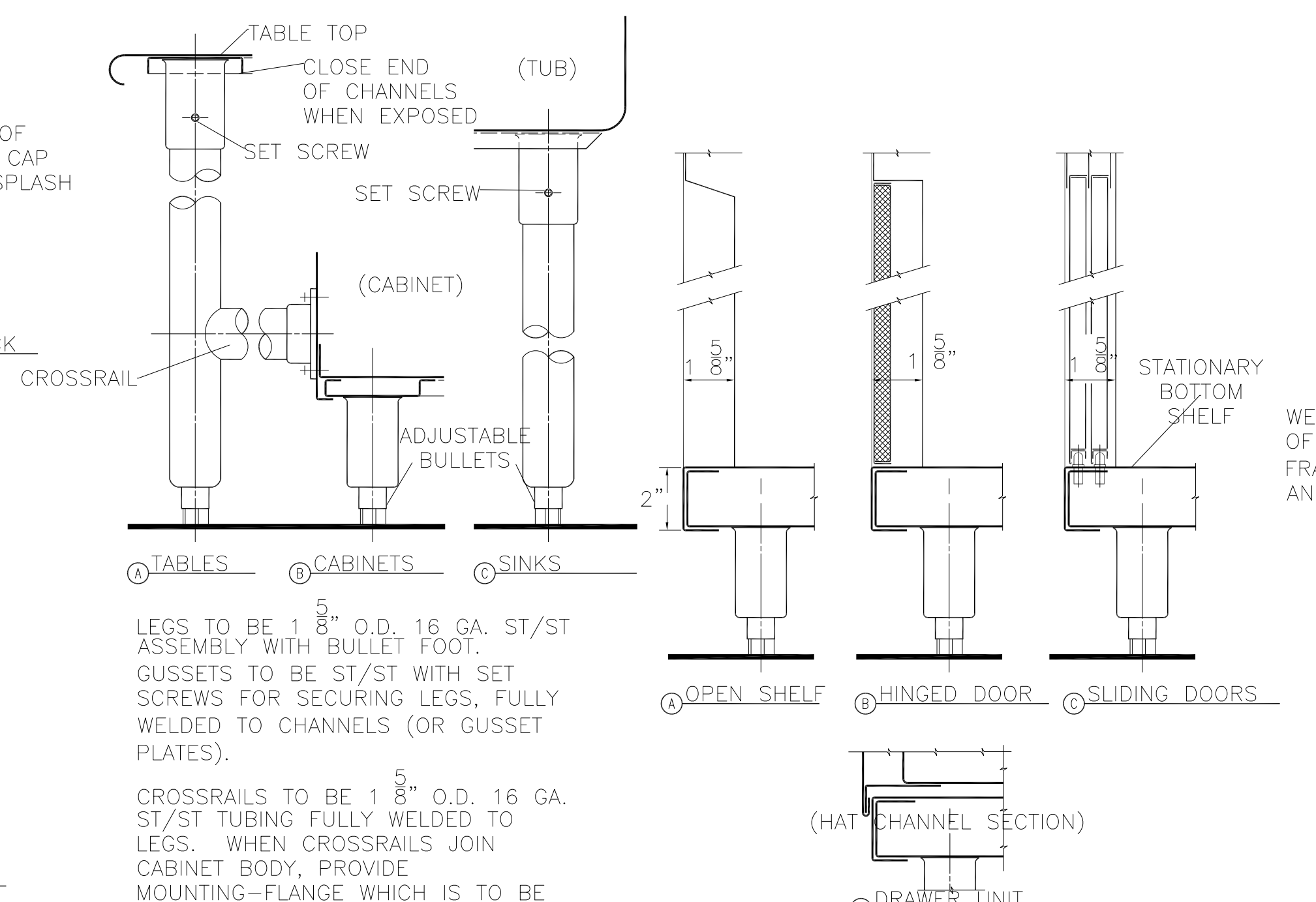
ELEVATION VIEW - U
SCALE: 1/2" = 1'-0"
ITEM #58 (QUANTITY OF 2)



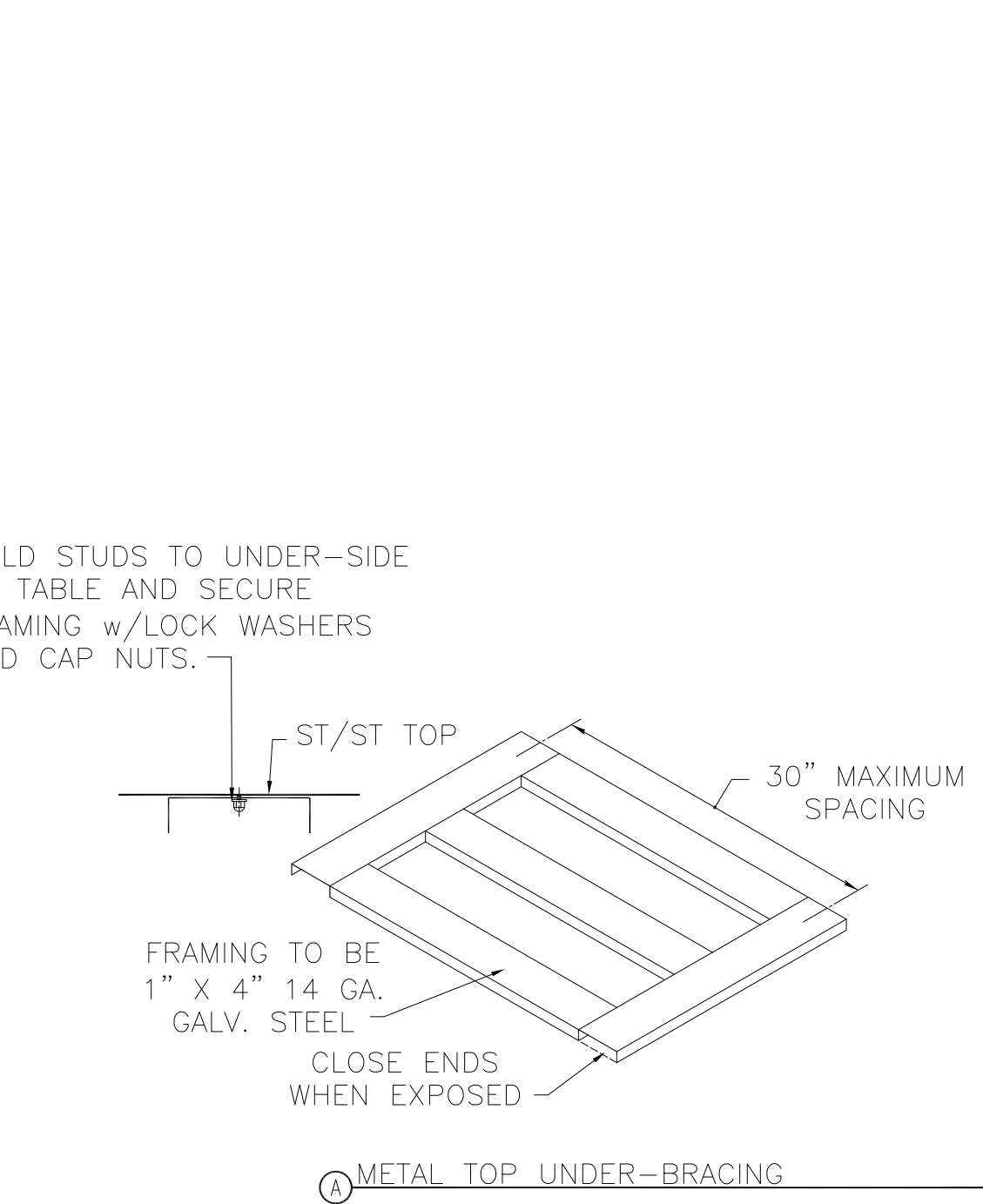
ELEVATION VIEW - V
SCALE: 1/2" = 1'-0"



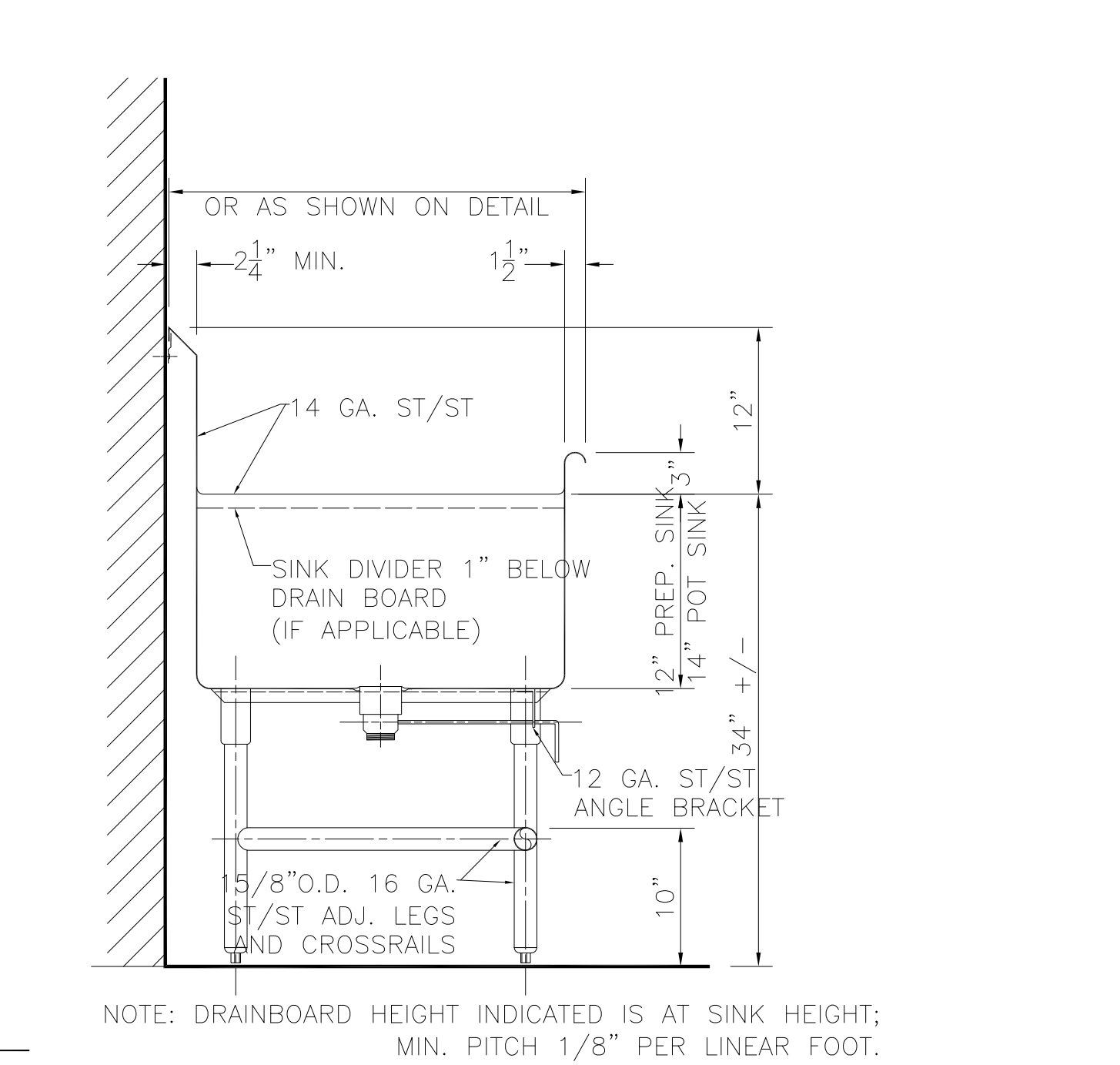
1 WORKTOP EDGES - STANDARD DETAIL NO SCALE
2 WORKTOP BACKSPASHES - STANDARD DETAIL NO SCALE



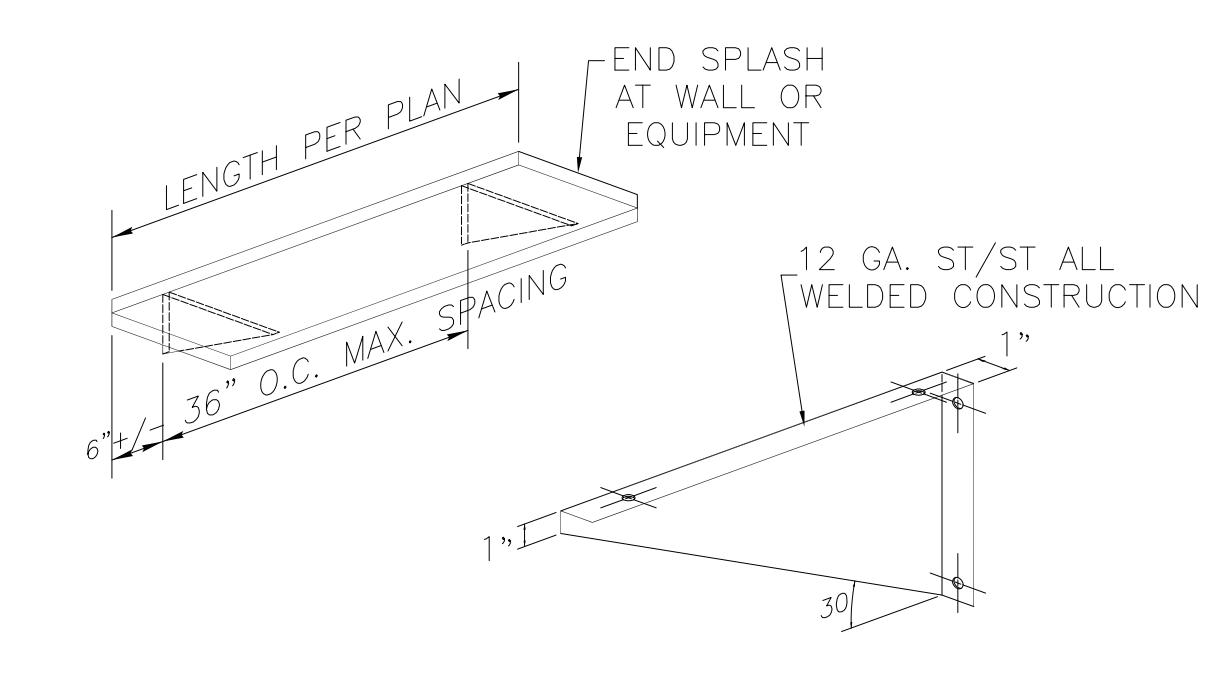
3 LEG ASSEMBLIES - STANDARD DETAIL NO SCALE
4 COUNTER/CABINET ASSEMBLIES - STANDARD DETAIL NO SCALE



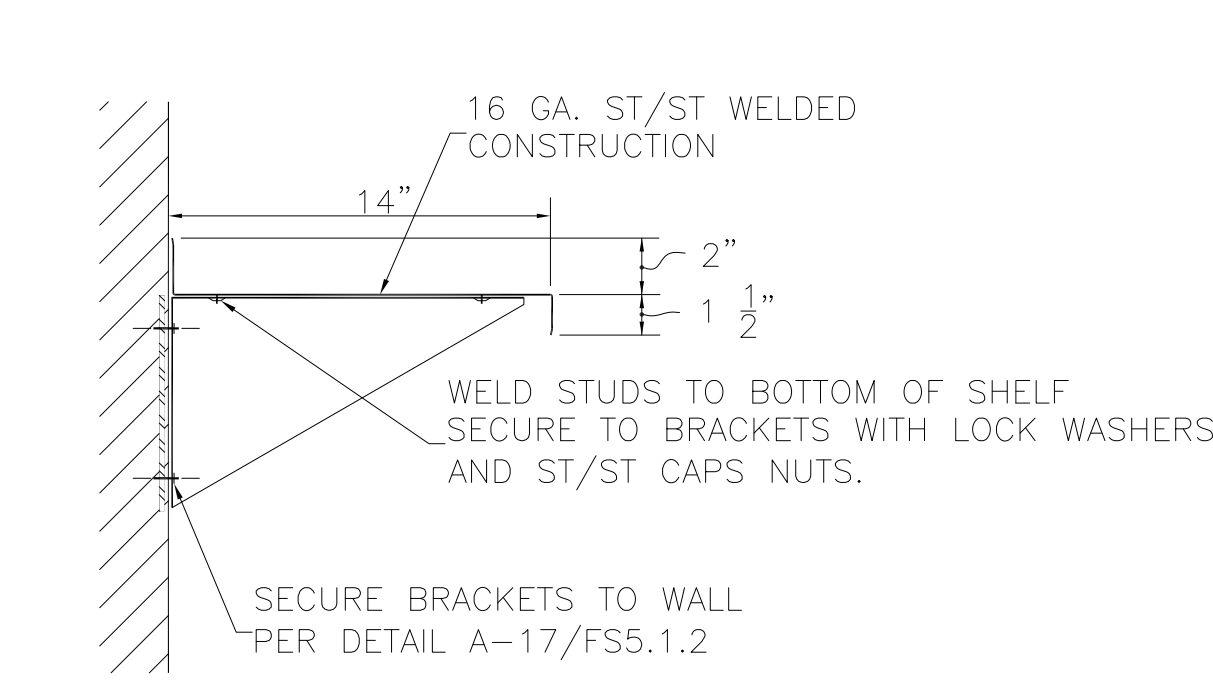
5 UNDER-BRACING ASSEMBLIES METAL TOPS - STANDARD DETAIL NO SCALE
6 POT SINK SECTION VIEW - STANDARD DETAIL NO SCALE



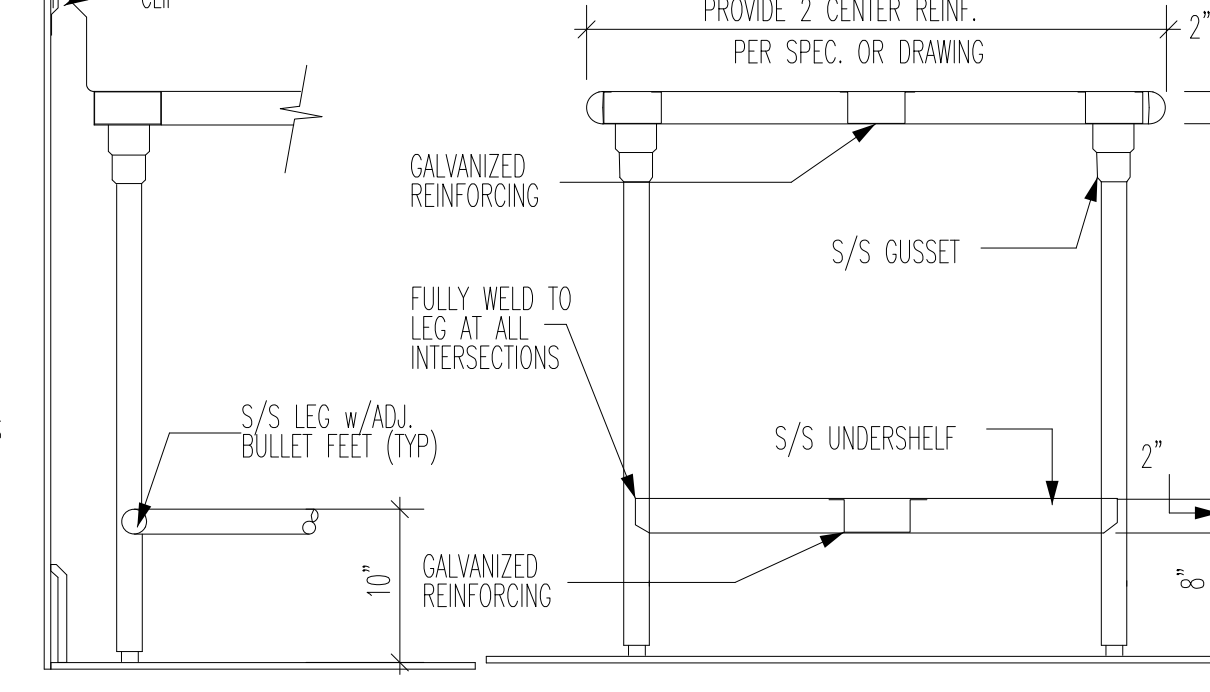
7 SHELF WALL MOUNT - STANDARD DETAIL NO SCALE
8 WORK TABLE - STANDARD DETAIL NO SCALE
9 WORK COUNTER - STANDARD DETAIL NO SCALE



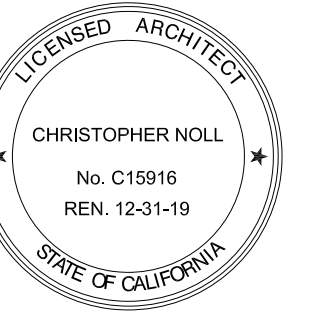
7 SHELF WALL MOUNT - STANDARD DETAIL NO SCALE



8 WORK TABLE - STANDARD DETAIL NO SCALE



9 WORK COUNTER - STANDARD DETAIL NO SCALE



| REVISIONS | DATE | DESCRIPTION |
|-----------|---------|---------------------|
| 1 | 8/27/19 | INC 2 - ADDENDUM 02 |
| 2 | 8/27/19 | INC 2 - ADDENDUM 03 |
| 3 | 4/15/21 | CCD 111 |

GENERAL NOTES:

NOTES TO ARCHITECT AND/OR CONTRACTOR: STREIVOR, INC. (STREIVOR AIR SYSTEMS, STREIVOR STAINLESS) IS A SPECIALIST IN THE LAYOUT AND DESIGN OF KITCHEN VENTILATION SYSTEMS, AND IN NO WAY PURPORTS TO BE ARCHITECTS OR ENGINEERS.

THIS PLAN IS SUBMITTED FOR THE CONVENIENCE OF THE ARCHITECT AND/OR CONTRACTOR AND IS DONE FROM AVAILABLE ARCHITECTURAL INFORMATION. ALL MEASUREMENTS ARE SUBJECT TO PHYSICAL VERIFICATION AND ANY DEVIATIONS OR DISCREPANCIES SHALL BE DIRECTED TO THE ATTENTION OF STREIVOR, INC. IN WRITING.

STREIVOR, INC. ACCEPTS NO RESPONSIBILITY FOR WORK DONE BY SAID ARCHITECT OR GENERAL CONTRACTOR OR THEIR REPRESENTATIVES OR SUBCONTRACTORS, AND WILL NOT STAND ANY EXPENSE FOR CHANGES MADE NECESSARY DUE TO LOCAL BUILDING CODES, ORDINANCES, STRUCTURAL CONDITIONS, OR BY ANY SUBSTITUTIONS OR CHANGES IN EQUIPMENT SHOWN ON THIS PLAN.

ANY ERRORS, AMBIGUITIES OR OMISSIONS IN THIS PLAN OR SPECIFICATIONS SHALL BE REPORTED TO STREIVOR, INC. FOR CORRECTIONS BEFORE ANY OF THE WORK IS STARTED, UNLESS EXPRESSLY STIPULATED. NO ADDITIONAL ALLOWANCE WILL BE MADE IN FAVOR OF THE OWNER OR CONTRACTOR, BY VIRTUE OF ERROR, AMBIGUITY OR OMISSION WHICH SHOULD HAVE BEEN DISCOVERED DURING THE PREPARATION OF BID ESTIMATES, AND DIRECTED TO THE ATTENTION OF STREIVOR, INC. IN A TIMELY MANNER.

PRE-INSTALLATION

OBTAIN, READ AND UNDERSTAND STREIVOR'S HOOD INSTALLATION, OPERATION AND MAINTENANCE MANUAL, PRIOR TO INSTALLATION, STARTUP OR BALANCING.

INSTALLATION

ALL INSTALLATION, STARTUP AND BALANCING MUST BE PERFORMED BY QUALIFIED PERSONS AND IN ACCORDANCE WITH ALL APPLICABLE PREVALING CODES AND STANDARDS. A 1" MINIMUM CLEARANCE IS REQUIRED ABOVE ALL STANDARD CONSTRUCTION HOODS. CONSULT THE FACTORY FOR VARIANCES.

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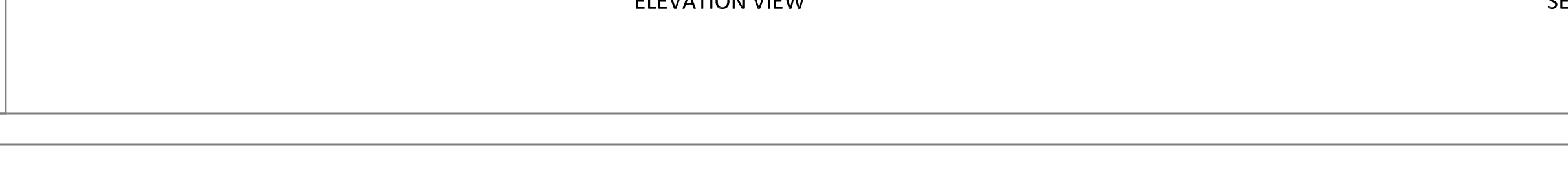
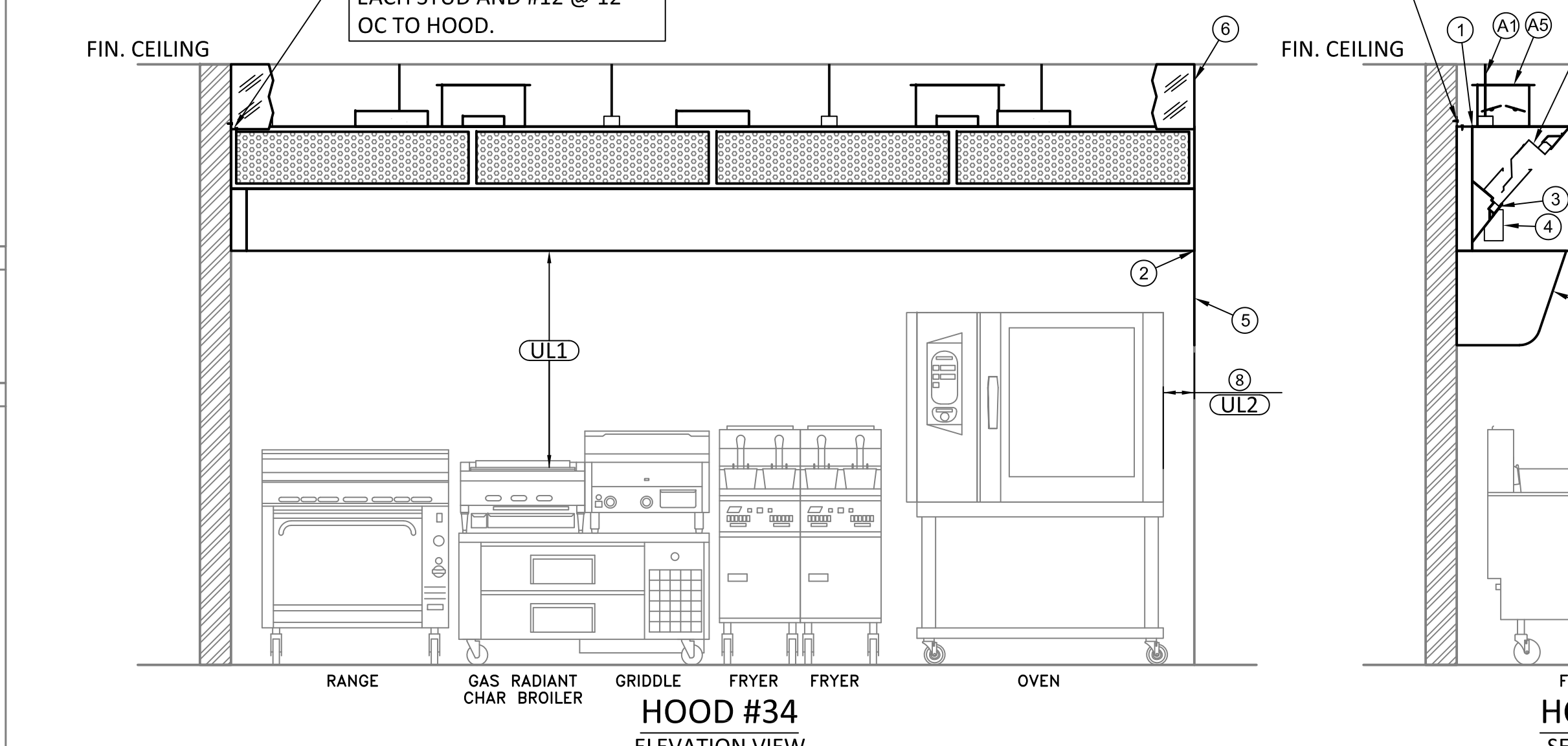
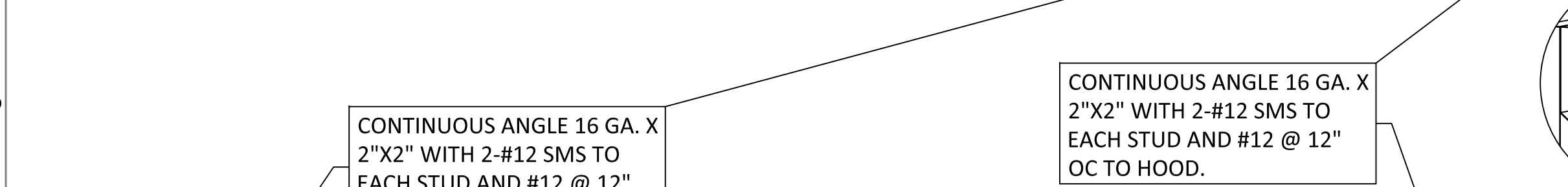
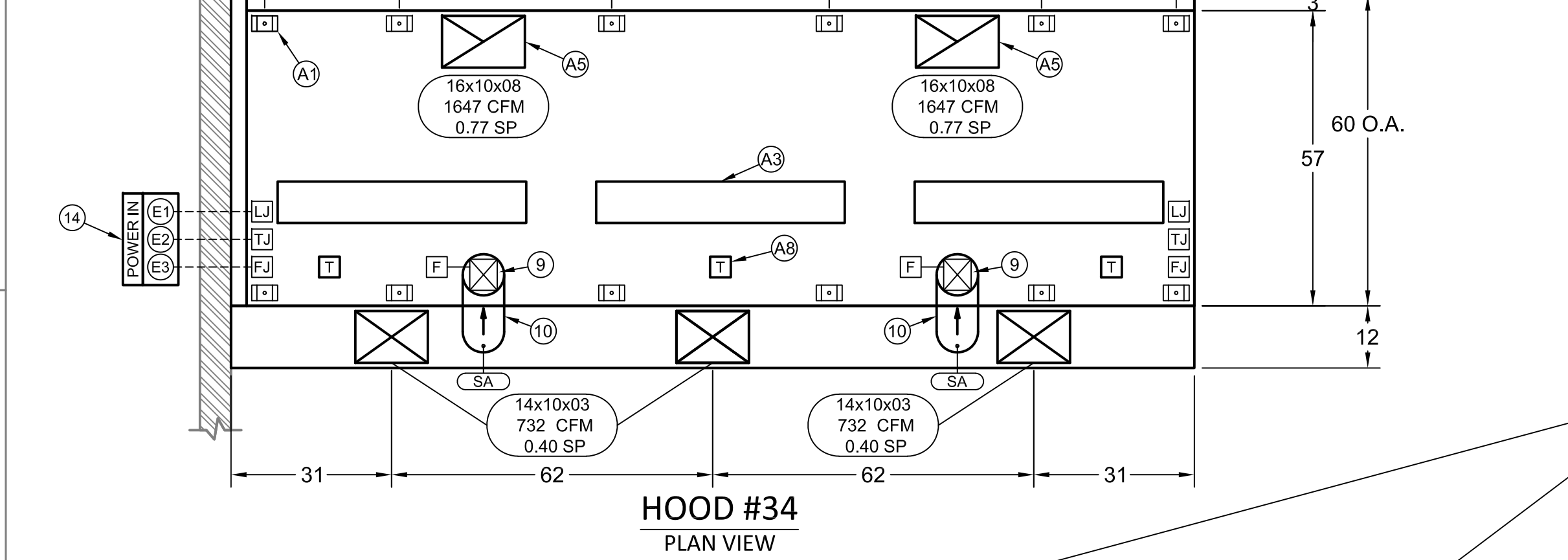
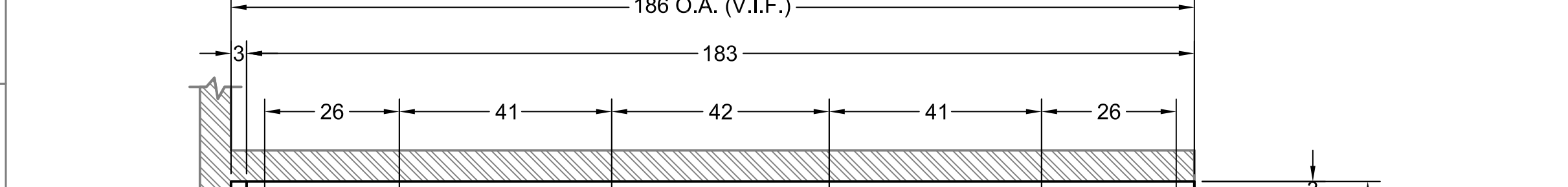
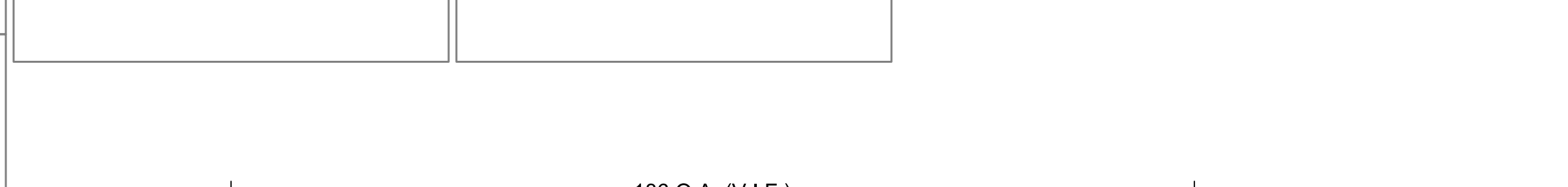
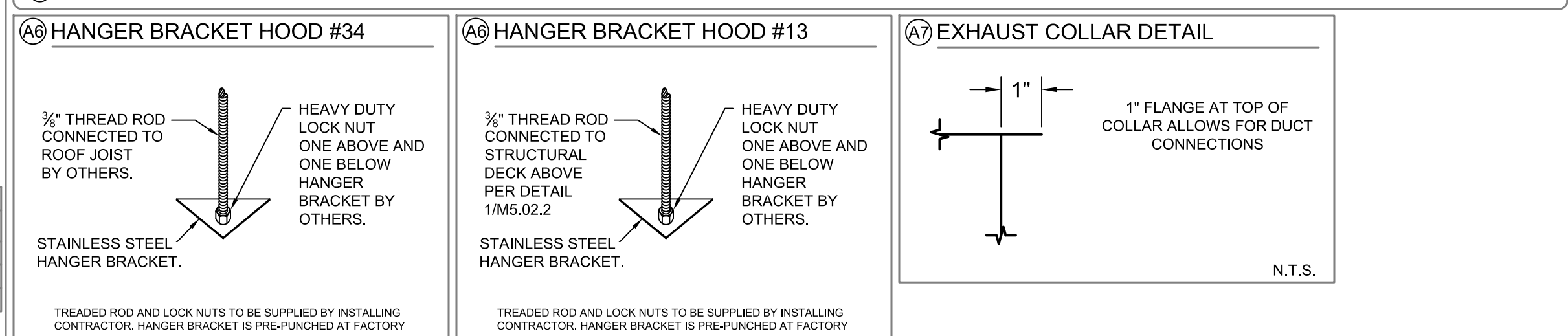
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| HOOD SCHEDULE | | EXHAUST | | DIST. FROM COOKING SURFACE TO LOWER EDGE OF HOOD (UL1) | | MINIMUM OVERHANG - OPEN DECK (UL2) | | EQUIP. DUTY TEMPERATURE (UL3) | | EQUIP. DUTY TEMPERATURE (UL4) | | | |
|---------------|----------------|---------|----|--|--------|------------------------------------|------|-------------------------------|------|-------------------------------|------|-------|------|
| NO. | MODEL | L | W | H | WEIGHT | SPEC. CFM | SP | CFM/FT | MIN. | MAX. | SIDE | FRONT | MAX. |
| 13 | DMH 424220.5 | 42 | 42 | 20.5 | 133 | 700 | 0.50 | 200 | 36 | 48 | 6 | 6 | N/A |
| 34 | SAWCBD 1835724 | 183 | 57 | 24 | 1213 | 3294 | 0.77 | 216 | 36 | 48 | 6 | 6 | 600 |

1. GREATER EXHAUST AND/OR LESSER SUPPLY AIR FLOW RATES MAY BE REQUIRED FOR COMPLETE VAPOR AND GREASE REMOVAL IN SPECIFIC INSTALLATIONS. THE EXHAUST FAN MUST BE OPERATED WHENEVER THE COOKING EQUIPMENT IS TURNED ON (SEE SECTION 11-1).

HOOD CANOPY MATERIAL: ALL 304 SERIES STAINLESS STEEL

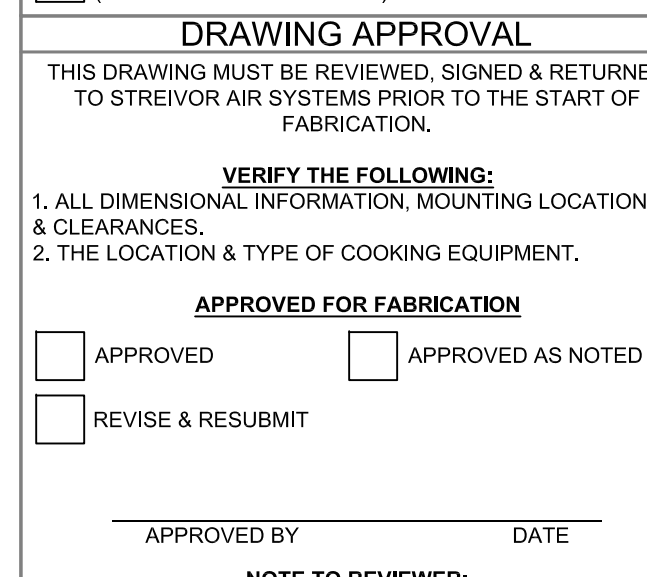
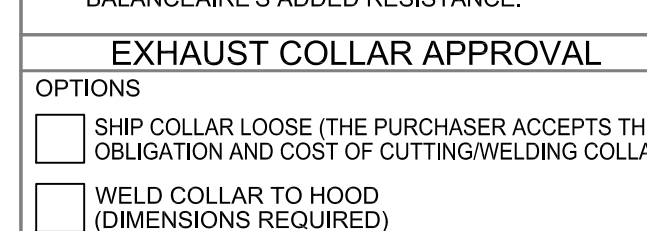
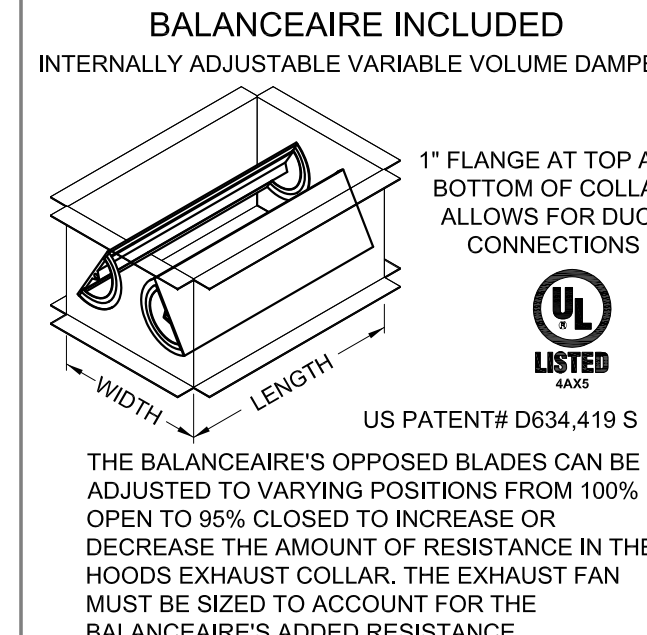
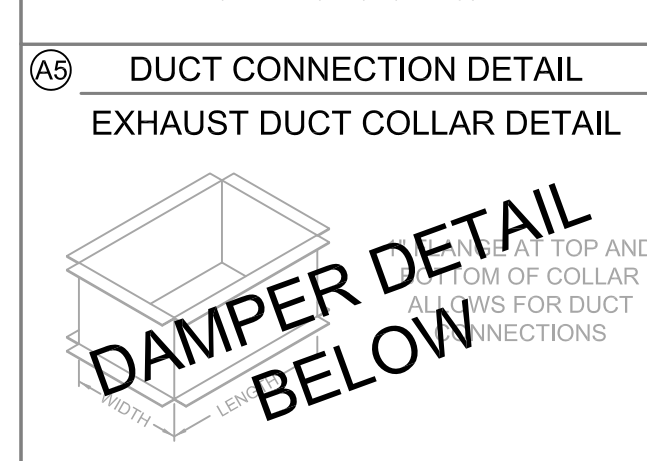
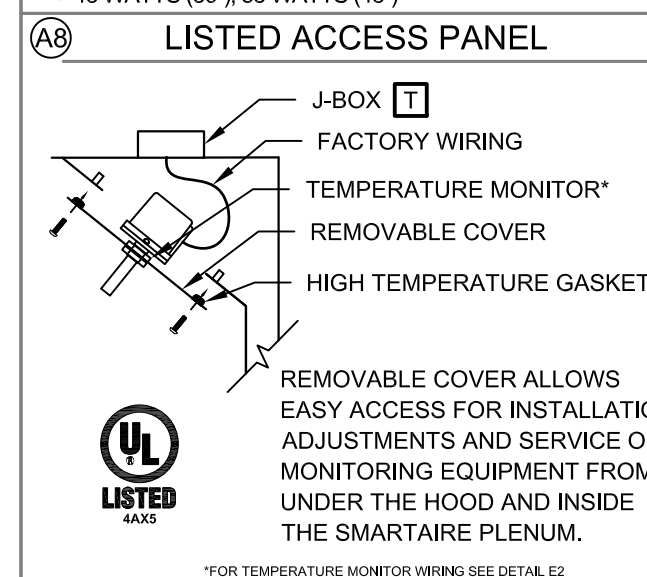
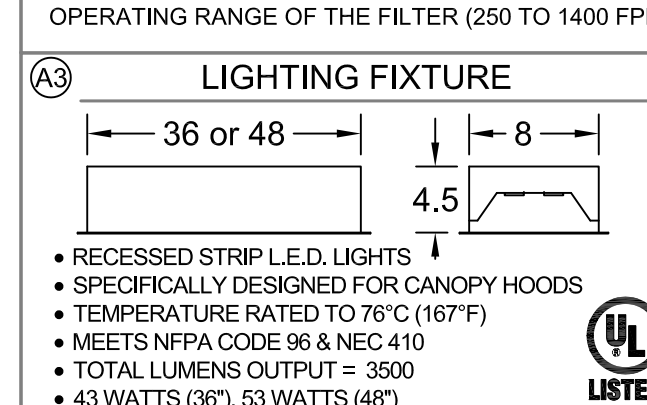
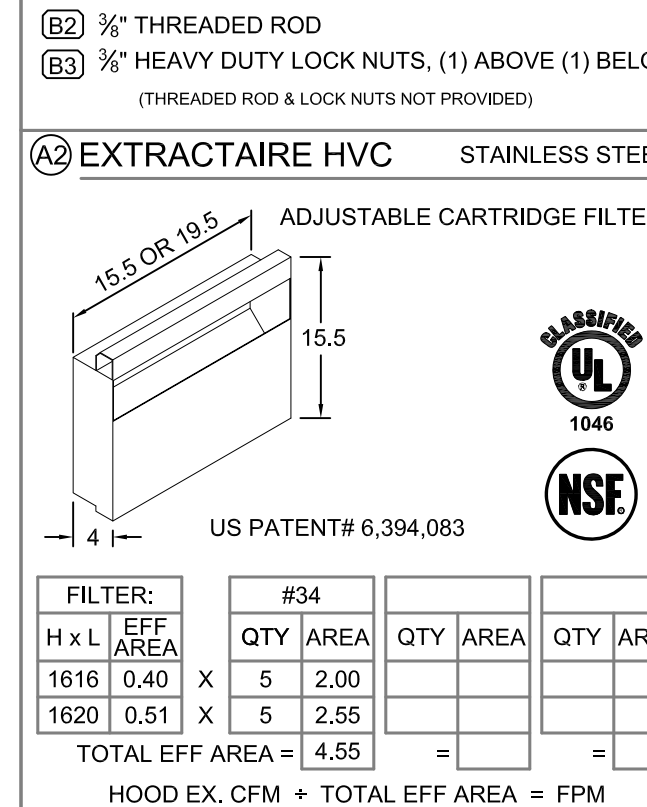
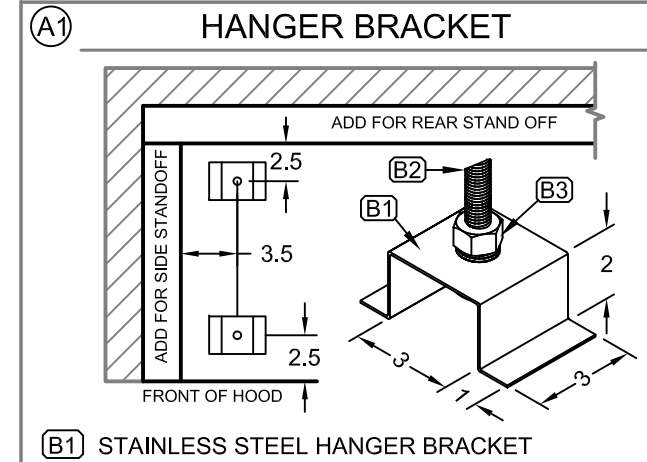
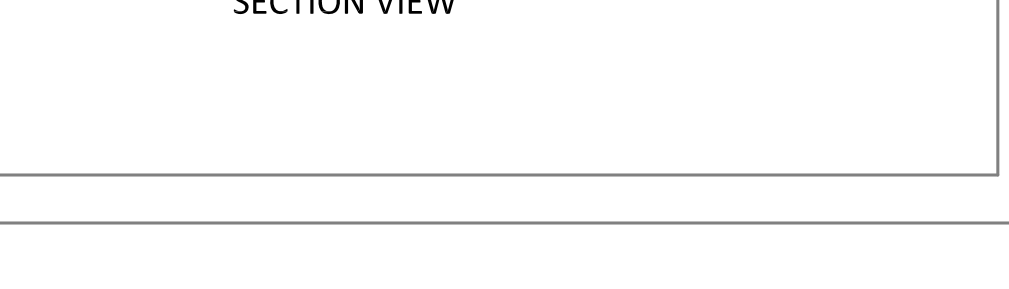
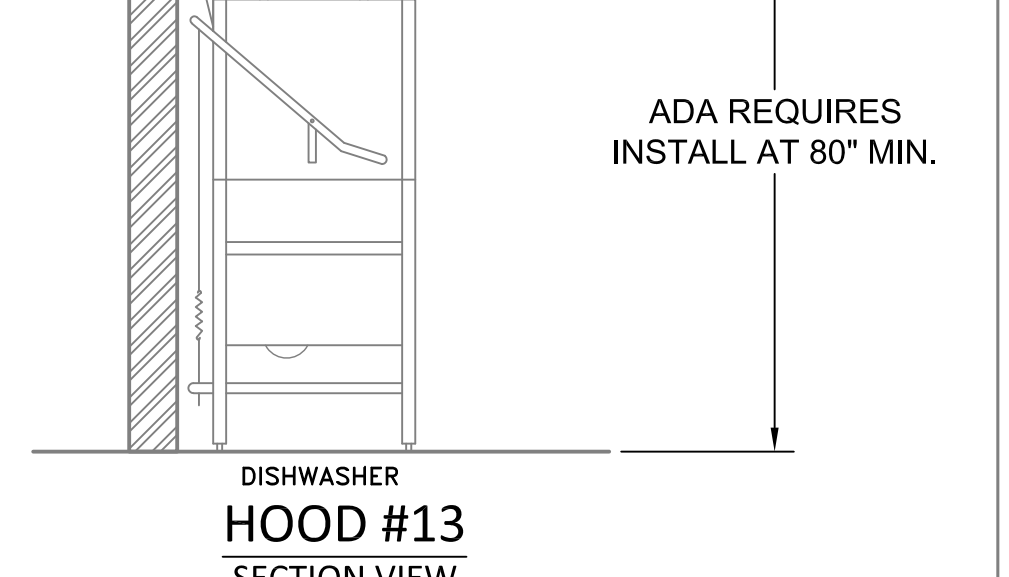
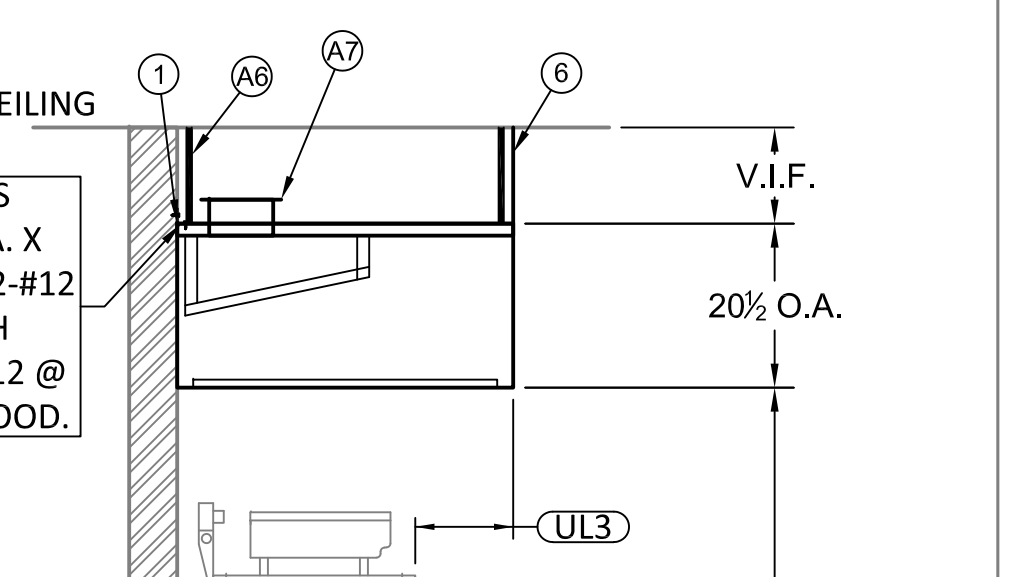
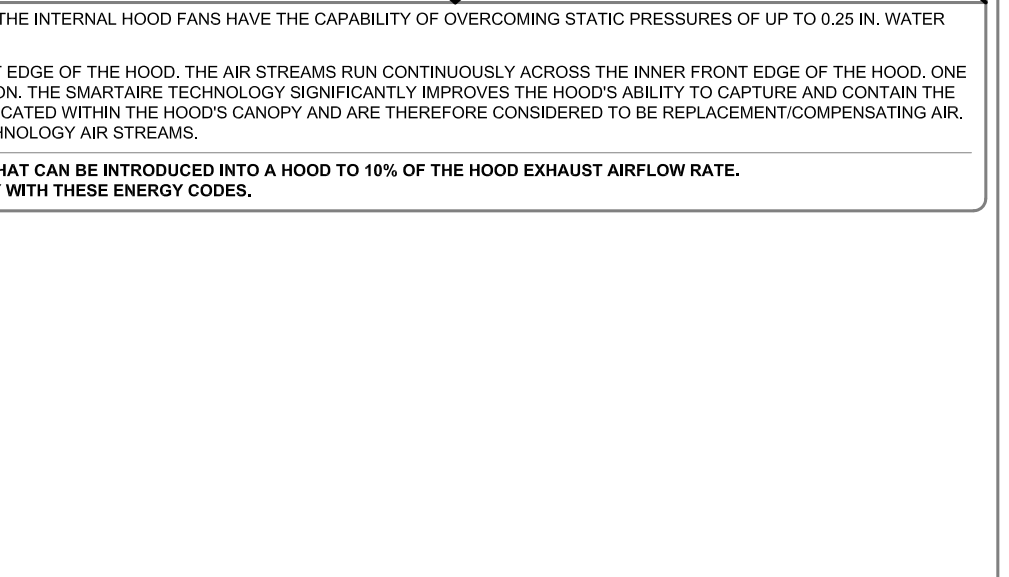
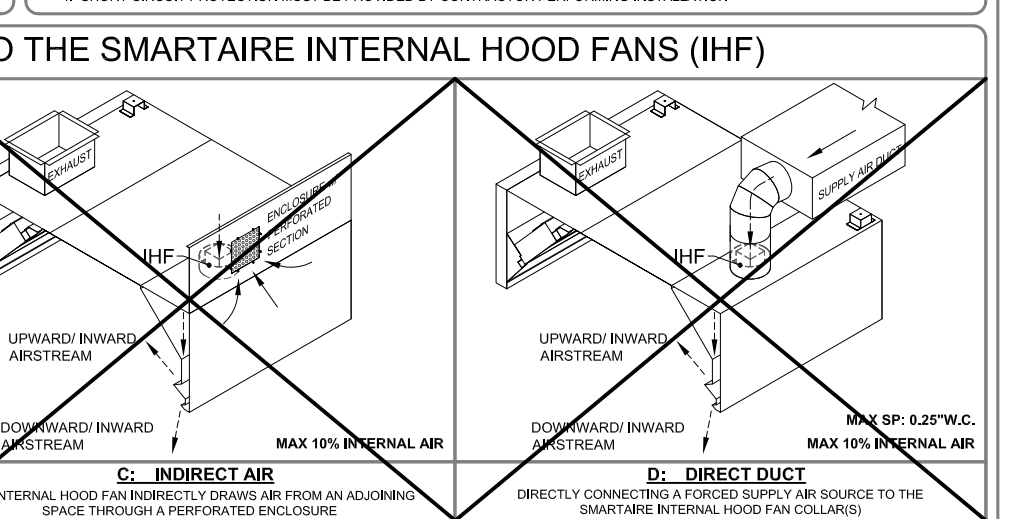
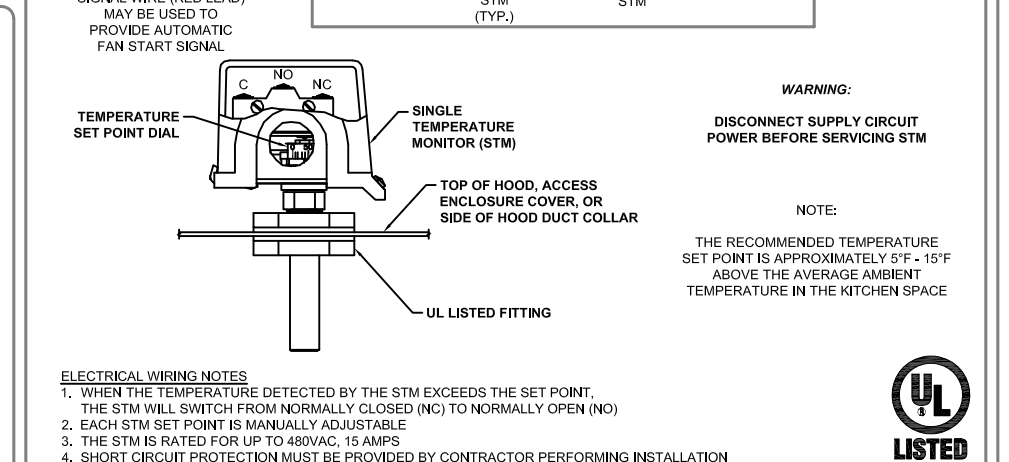
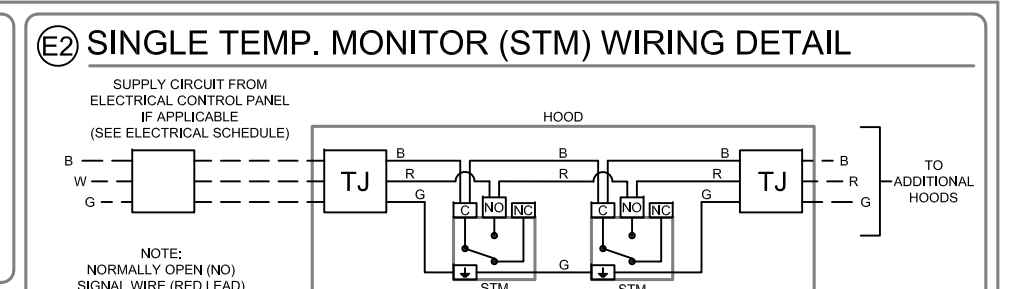
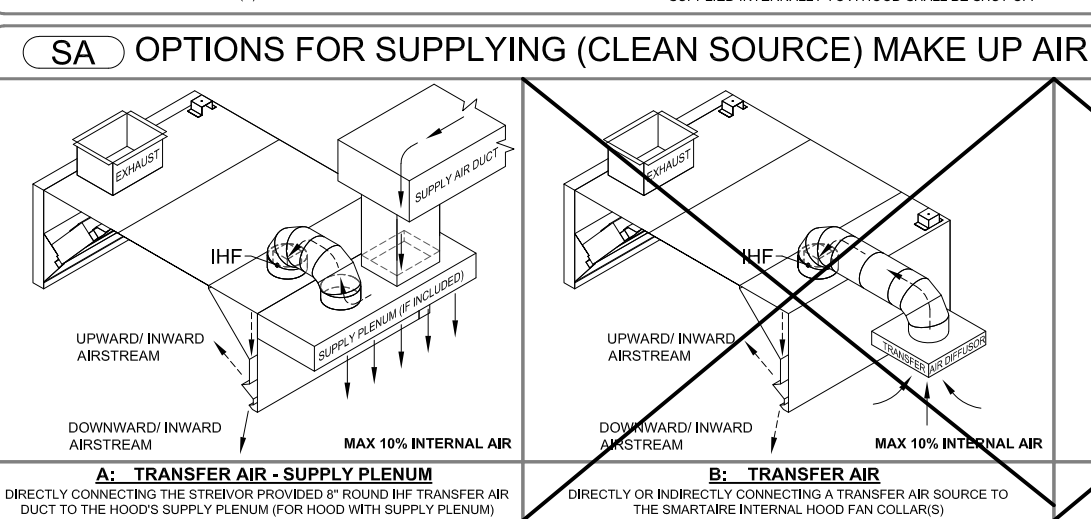
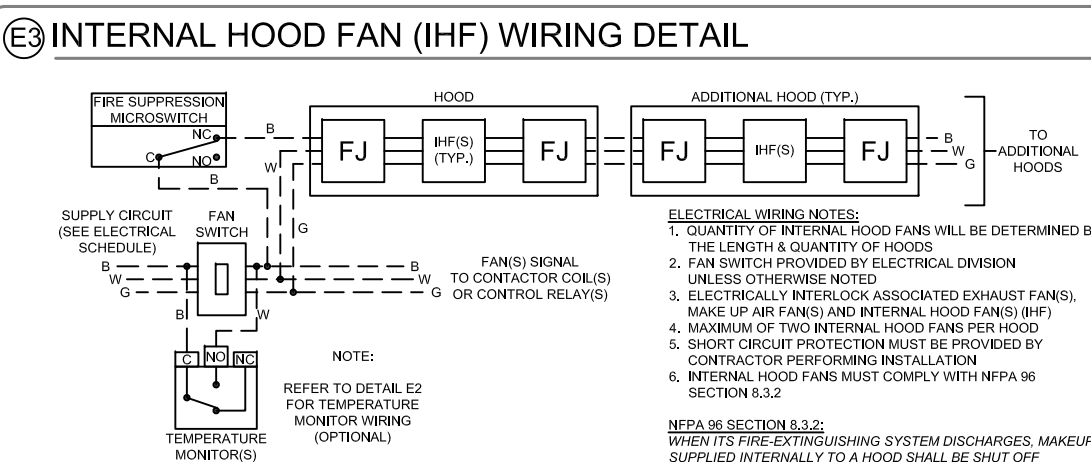
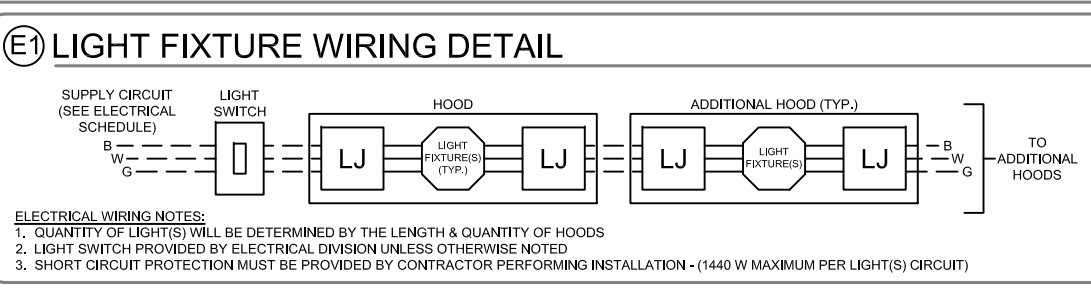


| ELECTRICAL SCHEDULE | | | |
|---------------------|-------------|-------------|------------------|
| CIRCUIT | DESCRIPTION | VOLTS/PHASE | AMPS / FEED FROM |
| E1 | LIGHTS | 120/1 | 2 CB |
| E2 | STM | - | CB |
| E3 | HF | 120/1 | 2 CB |

CB: CIRCUIT BREAKER BY ELECTRICAL CONTRACTOR

NOTE: IF AN ELECTRICAL CONTROL PANEL FOR THE HOODS IS INCLUDED, THE ABOVE SCHEDULE IS NOT VALID. REFER TO DEMANDARE DRAWINGS.

| ELECTRICAL LEGEND | |
|-------------------|-------------------------------------|
| SYMBOL | DESCRIPTION |
| LJ | LIGHT(S) JUNCTION BOX |
| TJ | TEMPERATURE MONITOR(S) JUNCTION BOX |
| FJ | INTERNAL HOOD FAN(S) JUNCTION BOX |



VERIFY THE FOLLOWING:

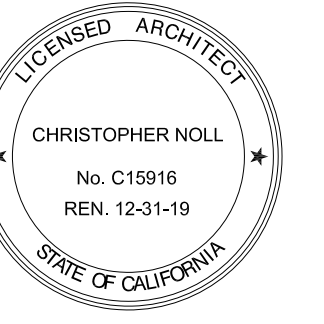
- ALL DIMENSIONAL INFORMATION, INCLUDING LOCATIONS & CLEARANCES.
- THE LOCATION & TYPE OF COOKING EQUIPMENT.

APPROVED FOR FABRICATION

APPROVED BY: _____ DATE: _____

NOTE TO REVIEWER: ANY CHANGES IN COOKING EQUIPMENT SUCH AS EQUIPMENT POSITION, TYPE AND/OR INCREASE IN ENERGY OUTPUT MAY AFFECT EXHAUST AIRFLOW. STREIVOR AIR SYSTEMS MUST BE NOTIFIED OF ANY CHANGES THAT OCCUR PRIOR TO FABRICATION. A RE-ENGINEERING OF THE EXHAUST AIRFLOW MAY BE REQUIRED.

H-01
SHEET 01 OF 01
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Website: rasdesign.com



CONTRA COSTA
CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION & RENOVATION

1690 Watermill Rd.
San Ramon, CA 94582

INCREMENT 2

9/1/2023

21630

| DATE | DESCRIPTION |
|---------|---------------------|
| 8/2/19 | INC 2 - ADDENDUM 02 |
| 8/27/19 | INC 2 - ADDENDUM 03 |
| 4/15/21 | CCD 111 |

FIRST FLOOR CAFE
FOOD SERVICE FIRE
SUPPRESSION SYSTEM
DETAILS

FS4.1.2

LISTINGS & STANDARDS

THIS WET CHEMICAL EXTINGUISHING SYSTEM IS ENGINEERED TO PROVIDE FIRE PROTECTION FOR RESTAURANT HOODS, DUCTS AND COOKING APPLIANCES. IT IS UL 300 LISTED AND IS TO BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS:

- NFPA 17A 2017 EDITION
- NFPA 10 2018 EDITION
- NFPA 96 2017 EDITION



APPLICABLE CODES

- NFPA 10 2018 EDITION**
(8.6.2.1) MAXIMUM TRAVEL DISTANCE SHALL NOT EXCEED 30 FT (9.15m) FROM THE HAZARD TO THE EXTINGUISHER(S)
- NFPA 17A 2017 EDITION**
(5.2.1.1) MANUAL PULL STATIONS INSTALLED NO MORE THAN 48" AND NO LESS THAN 42" ABOVE THE FLOOR
- NFPA 96 2017 EDITION**
(8.2.3) EXHAUST FANS & DAMPERS SHALL NOT BE REQUIRED TO SHUT DOWN ON SYSTEM ACTIVATION
- (8.2.3) WHEN ITS FIRE EXTINGUISHING SYSTEM DISCHARGES, MAKEUP AIR SUPPLIED INTERNALLY TO A HOOD SHALL SHUT DOWN.
- (10.4.1) UPON ACTIVATION OF ANY FIRE EXTINGUISHING SYSTEM FOR A COOKING OPERATION, ALL SOURCES OF FUEL AND ELECTRICAL POWER THAT PRODUCE HEAT TO ALL EQUIPMENT REQUIRING PROTECTION BY THAT SYSTEM SHALL AUTOMATICALLY SHUT OFF.
- (10.4.3) ANY GAS APPLIANCES NOT REQUIRING PROTECTION BUT LOCATED UNDER THE SAME VENTILATING EQUIPMENT SHALL ALSO AUTOMATICALLY SHUT OFF UPON ACTIVATION OF ANY EXTINGUISHING SYSTEM.
- (10.4.4) SHUTOFF DEVICE SHALL REQUIRE MANUAL RESET.
- (10.5.1.1) AT LEAST ONE MANUAL ACTUATION DEVICE SHALL BE LOCATED A MINIMUM OF 3 M (10 FT) AND A MAXIMUM OF 18 M (60 FT) FROM THE PROTECTED KITCHEN APPLIANCE(S) WITHIN THE PATH OF EGRESS.

INSTALLATION REQUIREMENTS/SCOPE OF WORK

- ALL PIPE SHALL BE SCHEDULE 40 BLACK IRON, CHROME PLATED/SLEEVED WHERE EXPOSED.
- ALL CYLINDER SYSTEMS SHALL HAVE 3/8" SUPPLY LINES AND 3/8" BRANCH LINES.
- ALL WIRE ROPE SHALL BE 1/16" STAINLESS STEEL AND RUN THROUGH 1/2" EMT CONDUIT.
- UL LISTED CORNER PULLEYS REQUIRED WHENEVER THE STAINLESS STEEL CABLE DIRECTION CHANGES.
- ALL EQUIPMENT WITH FIRE PROTECTION MUST BE SECURED TO FLOOR, (NOT BY STREIVOR)
- SWIVEL ADAPTERS MAY BE ADDED TO NOZZLES FOR UP TO 30° ROTATION.

SYSTEM #01

| CABLE/LINE LIMITATIONS | LENGTH | PULLEYS | | BRACKETS |
|---------------------------|-----------|---------|----------|----------|
| | | MAXIMUM | ALLOTTED | |
| FUSIBLE LINK (pg. 4-5) | 150.00 FT | 40 | 20 | 4 |
| PULL STATION(S) (pg. 4-9) | 150.00 FT | 40 | N/A | 2 |
| GAS VALVES (pg. 4-10) | 100.00 FT | 30 | N/A | N/A |

CYLINDER #1

| ZONE COVERAGE | COVERAGE DESCRIPTION | NOZZLE | QTY. | FLOW POINTS | PAGE |
|---------------------------------|----------------------|--------|------|-------------|------|
| | | | | | |
| <input type="checkbox"/> PLENUM | 1H | 1 | 1 | 3-3 | |
| <input type="checkbox"/> FRYER | 2H | 1 | 2 | 3-5 | |
| TOTAL FLOW POINTS | | | | | 5 |

PIPING LIMITATIONS

| CYLINDER | FLOW POINTS | TOTAL | | FIRST TO LAST NOZZLE | |
|----------|-------------|---------|----------|----------------------|----------|
| | | LENGTH* | VOLUME | LENGTH* | VOLUME |
| PCL-160 | MAXIMUM | 5 | 40.00 FT | 1500 ML | 16.00 FT |
| | ALLOTTED | 5 | 32.00 FT | 1200 ML | 15.00 FT |

CYLINDER #2

| ZONE COVERAGE | COVERAGE DESCRIPTION | NOZZLE | QTY. | FLOW POINTS | PAGE |
|----------------------------------|----------------------|--------|------|-------------|------|
| | | | | | |
| <input type="checkbox"/> PLENUM | 1H | 1 | 1 | 3-3 | |
| <input type="checkbox"/> BROILER | 1H | 1 | 1 | 3-11 | |
| <input type="checkbox"/> FRYER | 2H | 1 | 2 | 3-5 | |
| <input type="checkbox"/> RANGE | 1H | 2 | 2 | 3-6 | |
| <input type="checkbox"/> RANGE | 2L | 2 | 4 | 3-6 | |
| <input type="checkbox"/> GRIDDLE | 2H | 1 | 2 | 3-10 | |
| TOTAL FLOW POINTS | | | | | 14 |

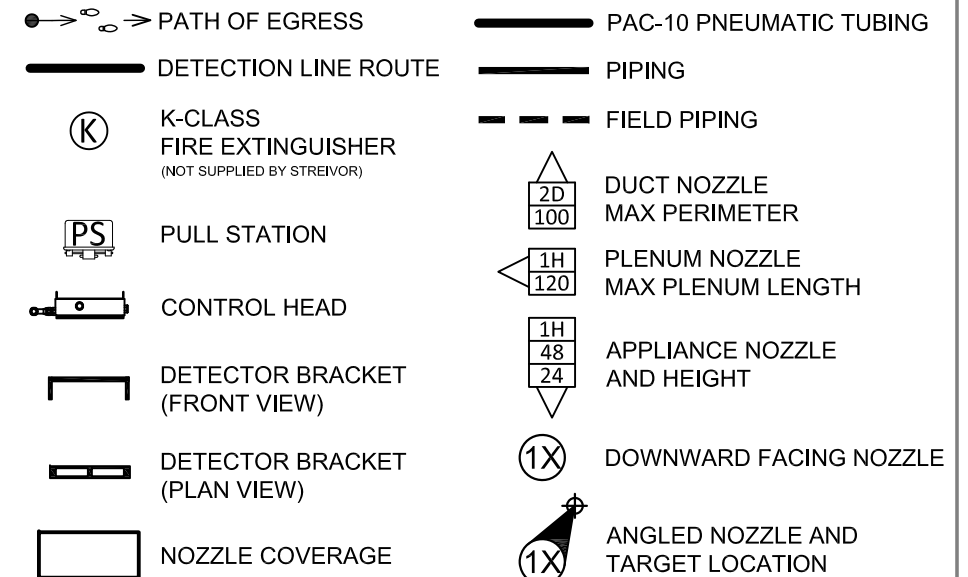
PIPING LIMITATIONS

| CYLINDER | FLOW POINTS | TOTAL | | FIRST TO LAST NOZZLE | |
|----------|-------------|---------|----------|----------------------|----------|
| | | LENGTH* | VOLUME | LENGTH* | VOLUME |
| PCL-460 | MAXIMUM | 14 | 90.67 FT | 3400 ML | 80.00 FT |
| | ALLOTTED | 14 | 52.00 FT | 1950 ML | 32.00 FT |

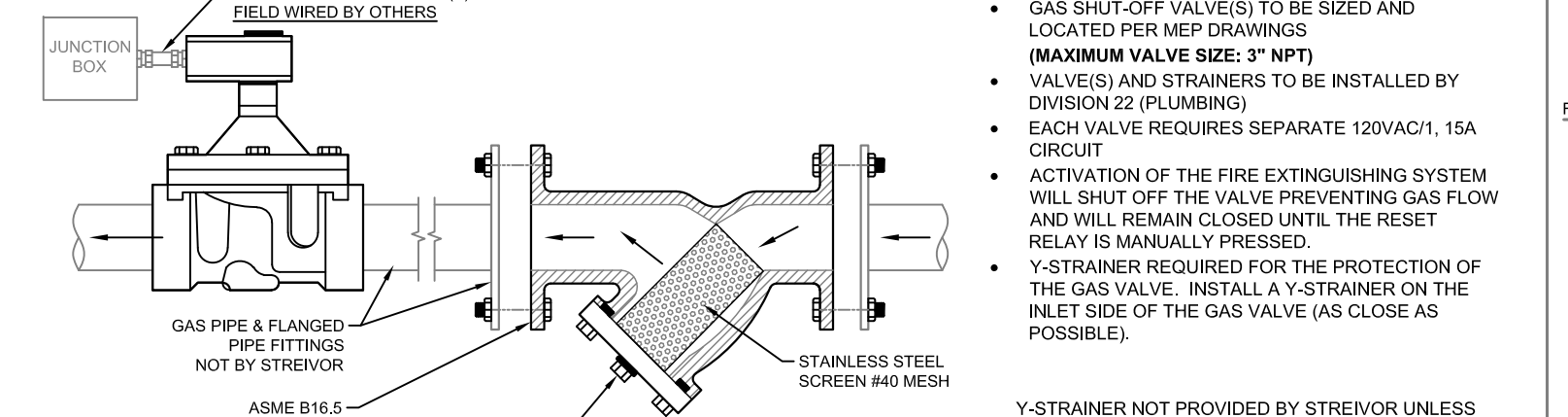
SEQUENCE OF OPERATION

- SYSTEM IS MANUALLY OR AUTOMATICALLY ACTIVATED.
- APPLIANCE ENERGY SOURCES (ELECTRICAL/GAS) ARE AUTOMATICALLY SHUT OFF BY ACCESSORY EQUIPMENT (GAS VALVE, SHUNT TRIPS).
- THE FIRE SUPPRESSING AGENT IS DISCHARGED INTO THE PLENUM AND DUCT AND ONTO THE COOKING APPLIANCES.
- SIGNAL IS SENT TO EXHAUST/MAKE-UP AIR FANS TO:
 - EXHAUST FAN SERVING EXHAUST HOOD TO CONTINUE RUNNING TO REMOVE SMOKE AND ASSIST IN DISPERSING SUPPRESSANT INTO DUCT SYSTEM.
 - MAKE-UP AIR SERVING KITCHEN/CAFE AREA TO BE SHUT DOWN.
- SIGNAL SENT VIA ALARM SWITCH AT CONTROL HEAD TO SIGNAL BUILDING FIRE ALARM TO ACTIVATE.

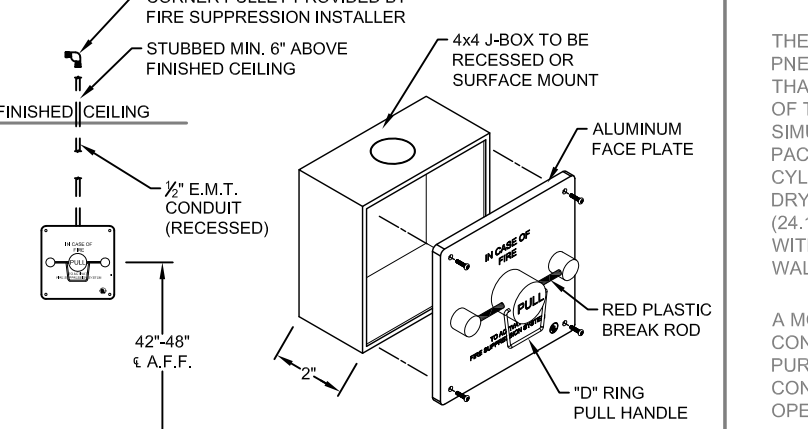
LEGEND



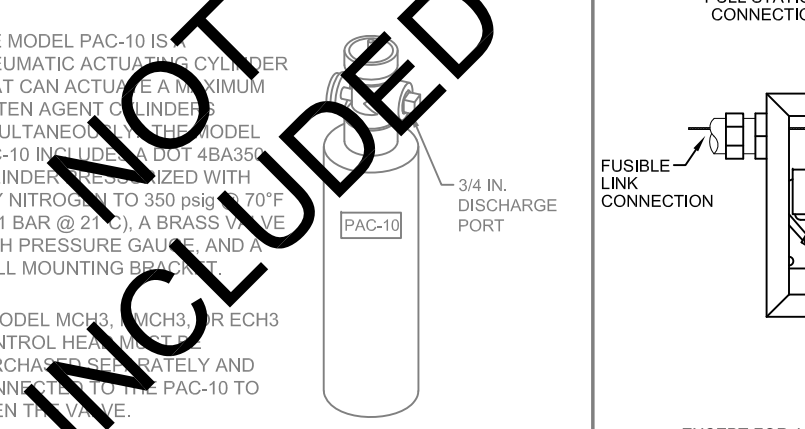
ELECTRIC GAS SHUT-OFF VALVE & FLANGED Y-STRAINER



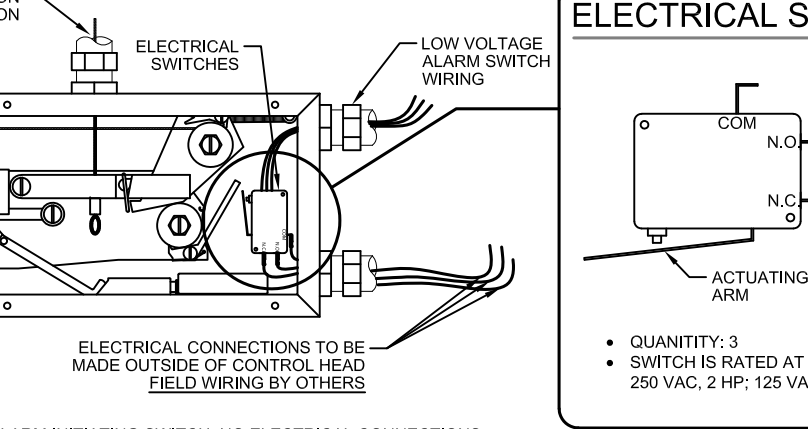
PULL STATION (#551074)



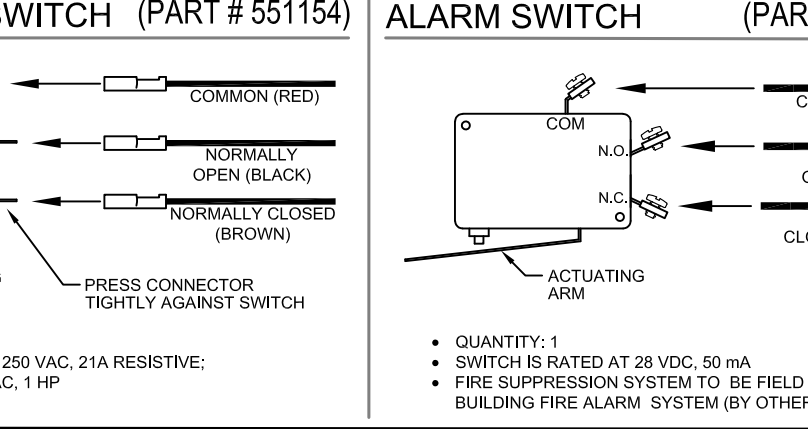
PAC-10 (#550104)



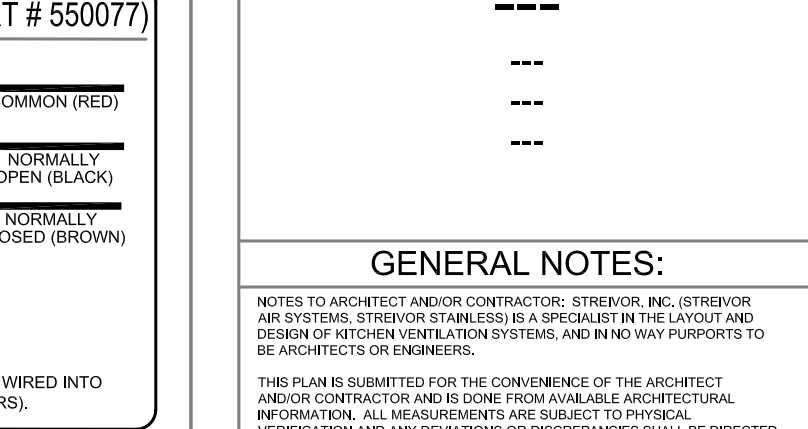
NMCH3 CONTROL HEAD (PART # 551203)



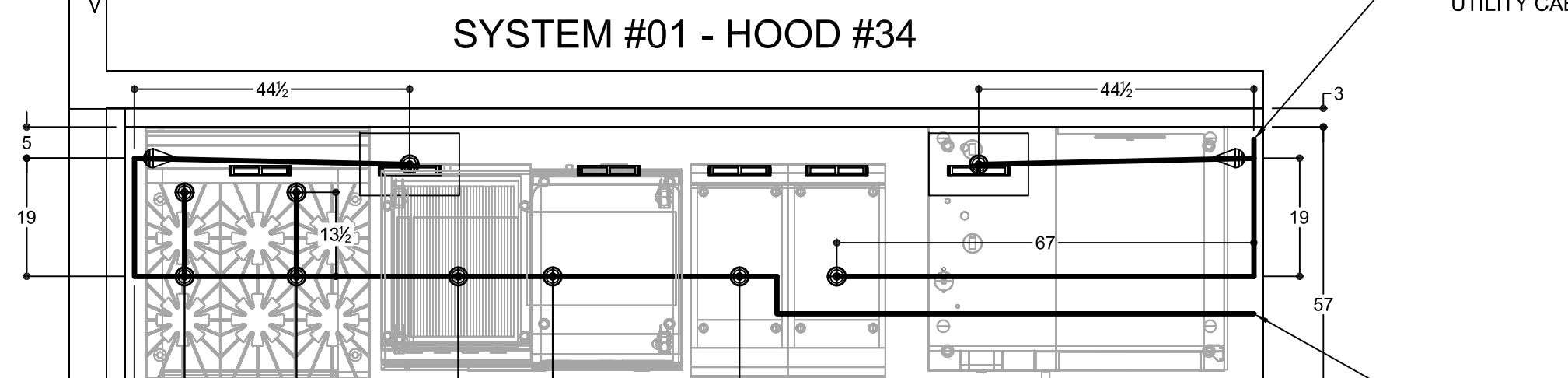
ELECTRICAL SWITCH (PART # 551154)



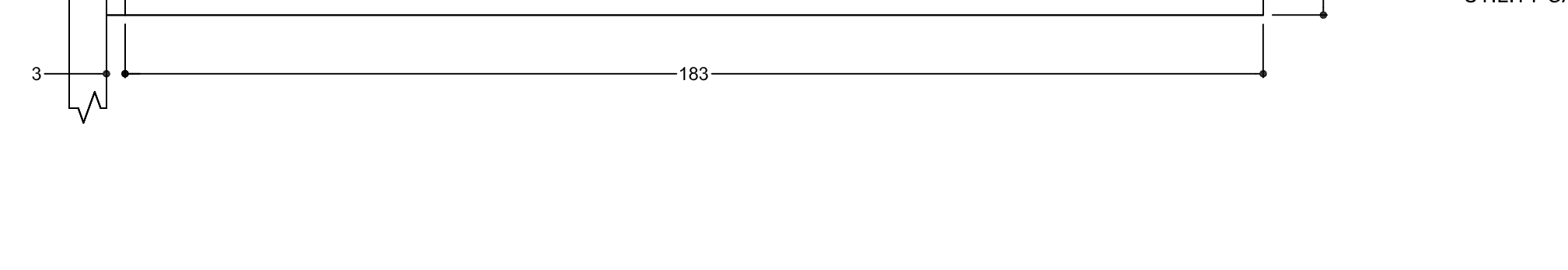
ALARM SWITCH (PART # 550077)



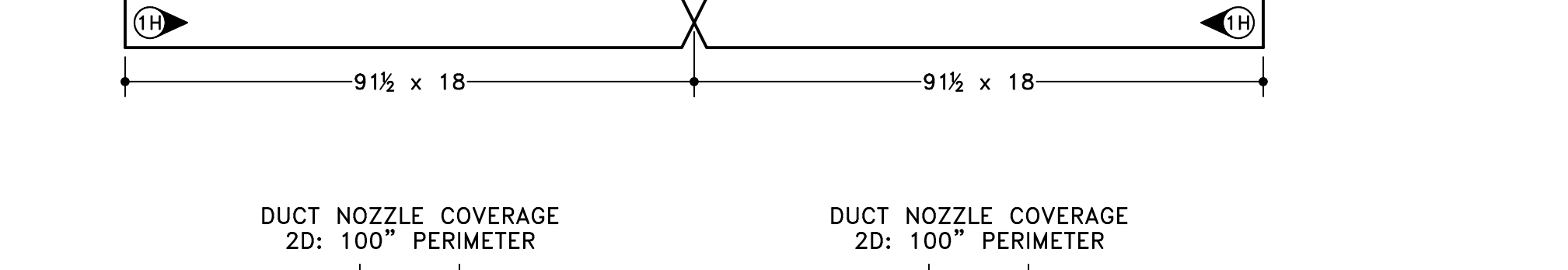
SYSTEM #01 - HOOD #34



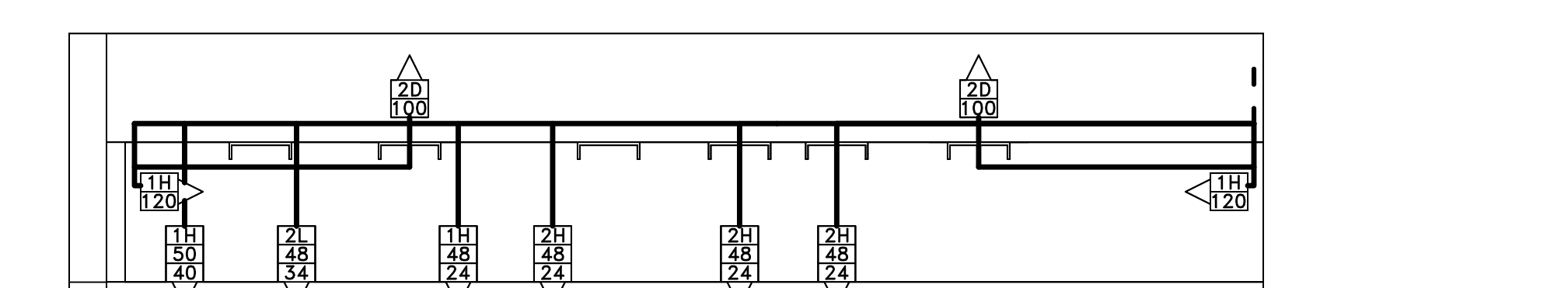
PLENUM NOZZLE COVERAGE



DUCT NOZZLE COVERAGE



SEQUENCE OF OPERATION



MAX COVERAGE:

| | | | |
|-----------|-----------|-----------|-------------|
| 1H: 28x12 | 1H: 24x26 | 2H: 30x36 | 2H: 19x19.5 |
| 2L: 28x28 | | | |

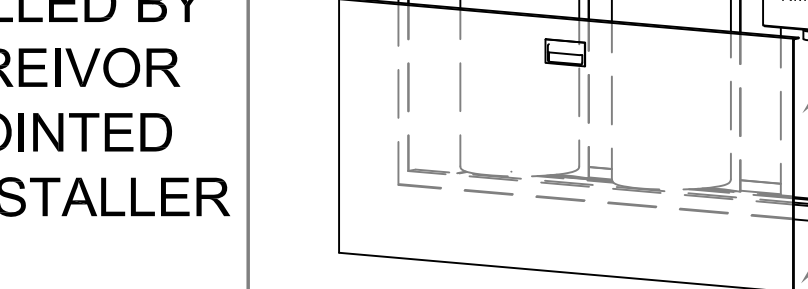
NOTES

- SEE SHEET FA2.39.2 FOR LOCATION OF AUDIBLE/VISUAL ALARM/INDICATOR.
- SEE SHEET E2.39.2 FOR ELECTRICAL PANEL LOCATION - SHUNT TRIP BREAKERS INSIDE PANEL(S).

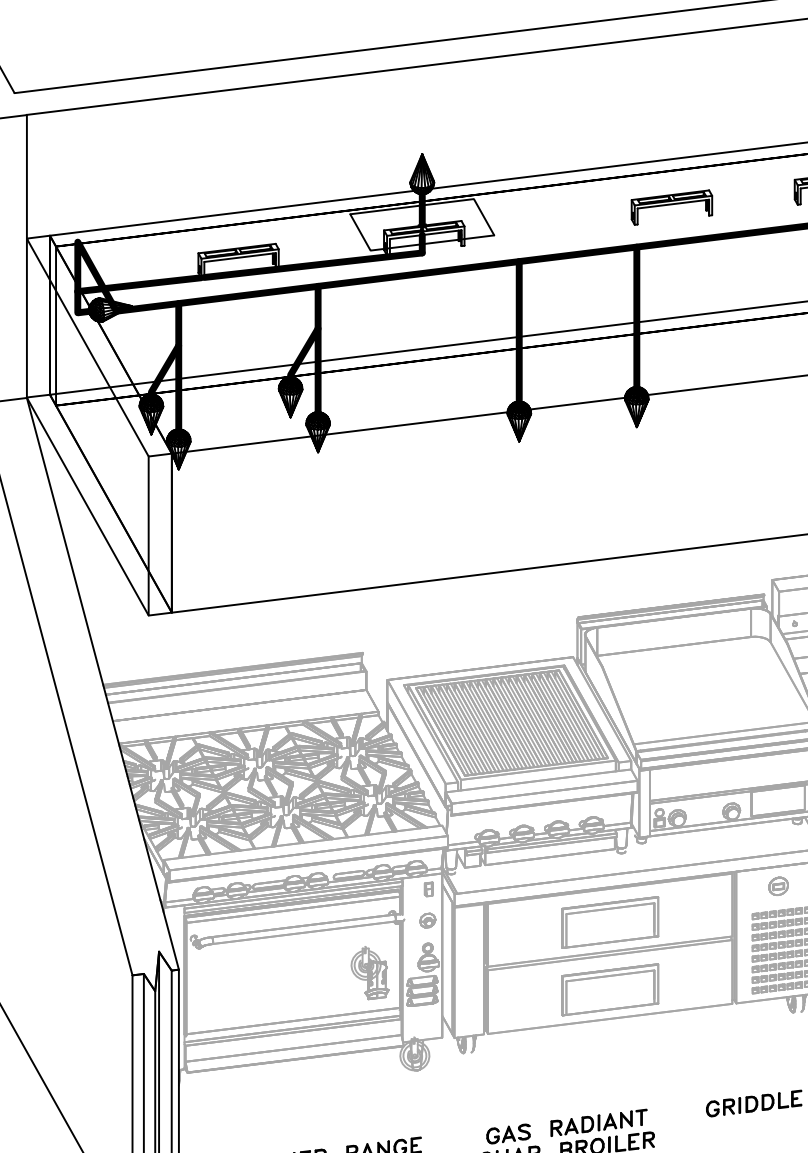
NOT INCLUDED

NOTE: FIELD PIPING TO BE INSTALLED BY A STREIVOR APPOINTED FIRE INSTALLER

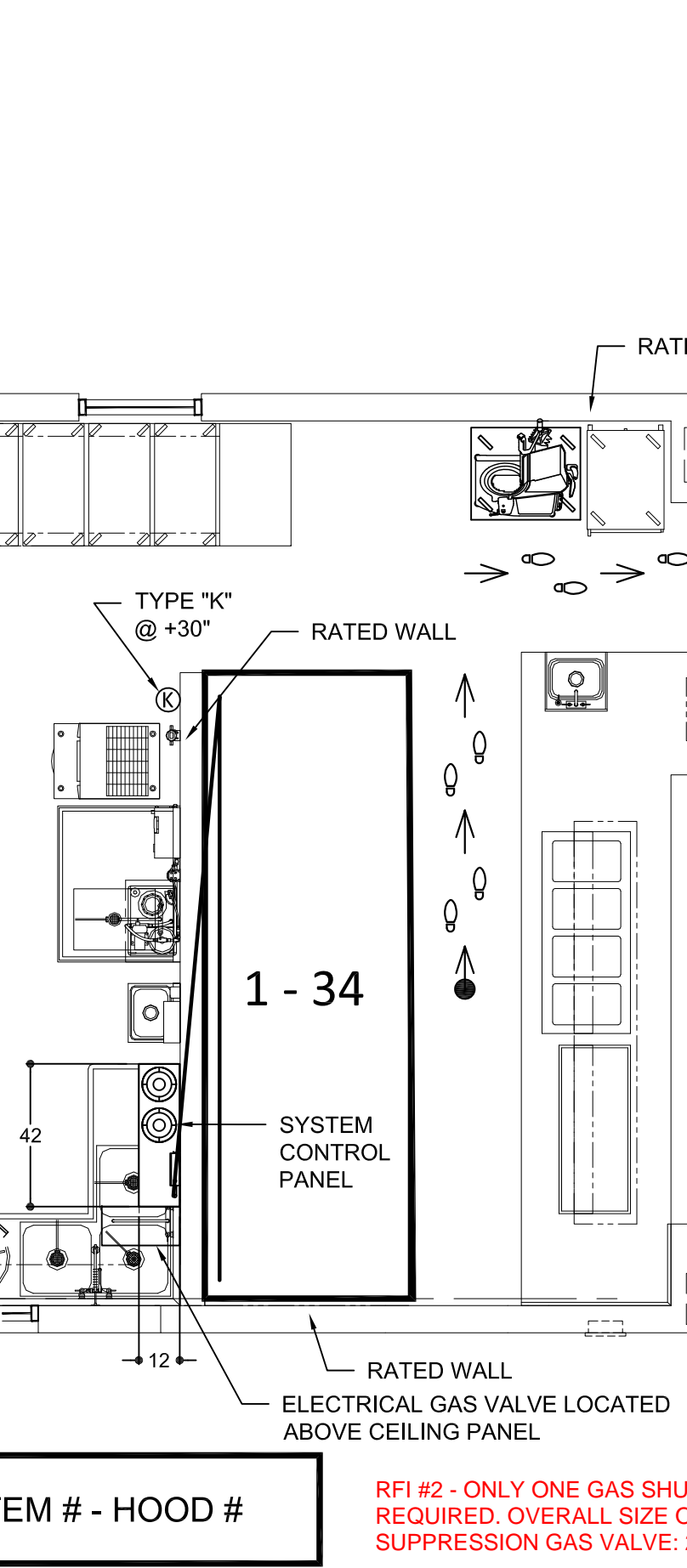
FIRE SUPPRESSION SYSTEM CABINET



ISOMETRIC APPLIANCE LAYOUT



PATH OF EGRESS



SCALE: N.T.S.

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

INSTALLER:

GENERAL NOTES:

- NOTES TO ARCHITECT: STREIVOR CONTRACTOR SHALL VERIFY THE LOCATION AND EXISTENCE OF ALL UTILITIES PRIOR TO THE START OF WORK AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES OR EQUIPMENT.
- THESE DRAWINGS ARE THE PROPERTY OF STREIVOR. ANY REPRODUCTION OR DISTRIBUTION WITHOUT THE WRITTEN PERMISSION OF STREIVOR IS STRICTLY PROHIBITED.
- ANY ERRORS, OMISSIONS OR CONFLICTS IN THESE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE ARCHITECT. STREIVOR CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL INFORMATION PROVIDED BY THE ARCHITECT. STREIVOR CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES AND LOCAL JURISDICTIONS. STREIVOR CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES AND LOCAL JURISDICTIONS.

STREIVOR™ AIR SYSTEMS

"STRIVING FOR EXCELLENCE"

2-150 KITTITY HAWK ROAD, LIVERMORE, CA 94551
PHONE: (925) 960-9090 FAX: (925) 960-9055
WWW.STREIVOR.COM

CUSTOMER APPROVAL

COOKING EQUIPMENT VERIFICATION

- VERIFY THE FOLLOWING:
- HIGH BACK SHELVES YES NO
 - RANGE COOKING SURFACE DEPTH GREATER THAN 28" YES NO
 - PULL STATION LOCATION(S) YES NO
 - UTILITY CABINET LOCATION(S) YES NO
 - AGENT DISTRIBUTION HOSE AND RESTRAINING CABLE KIT YES NO

APPROVED BY _____ **DATE** _____

NOTE TO REVIEWER:

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PROJECT:

DVC - SAN RAMON EXPANSION

SAN RAMON, CA 94582

RAS DESIGN GROUP

ITEM #:

1

SYSTEM #:

1

HOOD #:

34

DATE:

04/24/19

DRAWN BY:

SWB

CHECKED BY:

KCS

CONSULTANT:

RAS DESIGN GROUP

SCALE:

1/2" = 1'-0"

DESCRIPTION

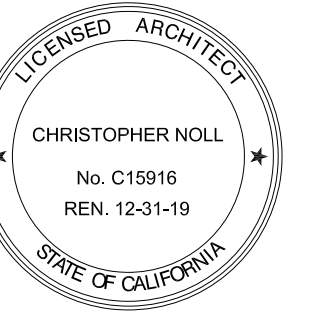
DATE INT

APPLIANCE LAYOUT 04/29/19 KCS

F-01

SHEET 01 OF 01

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Email: ras@rasdesign.com
Website: rasdesign.com



**CONTRA COSTA
CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION &
RENOVATION**

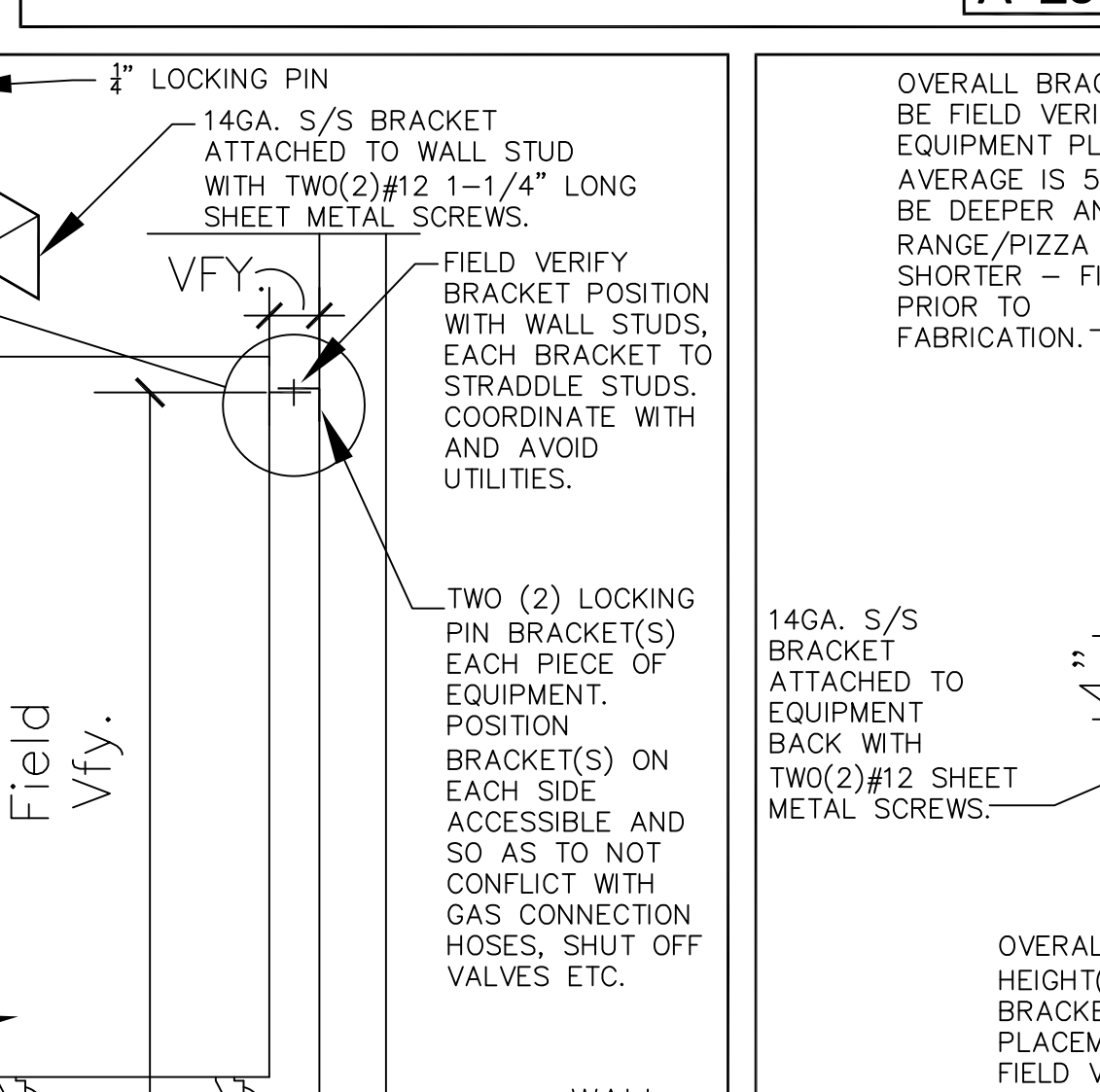
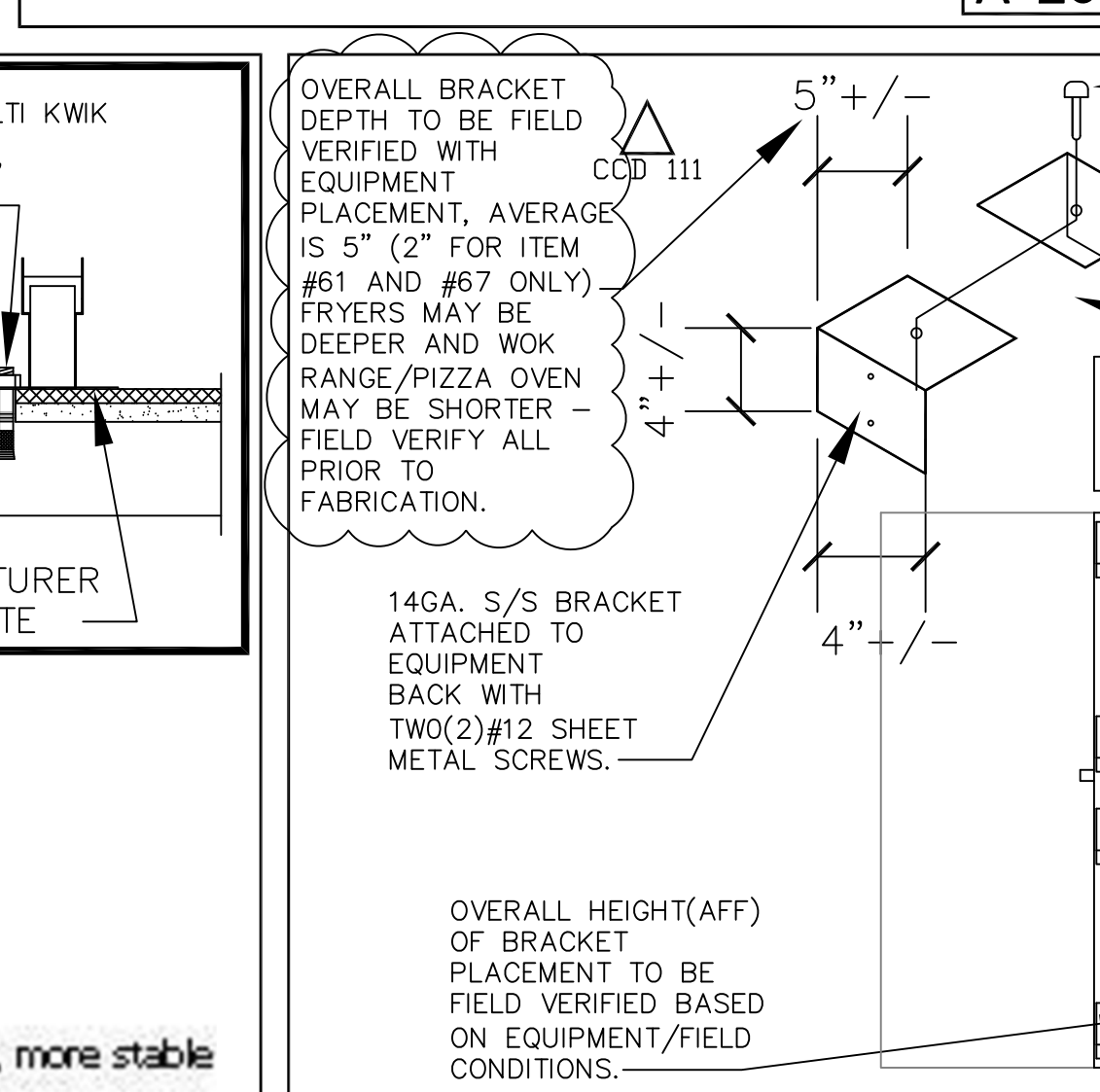
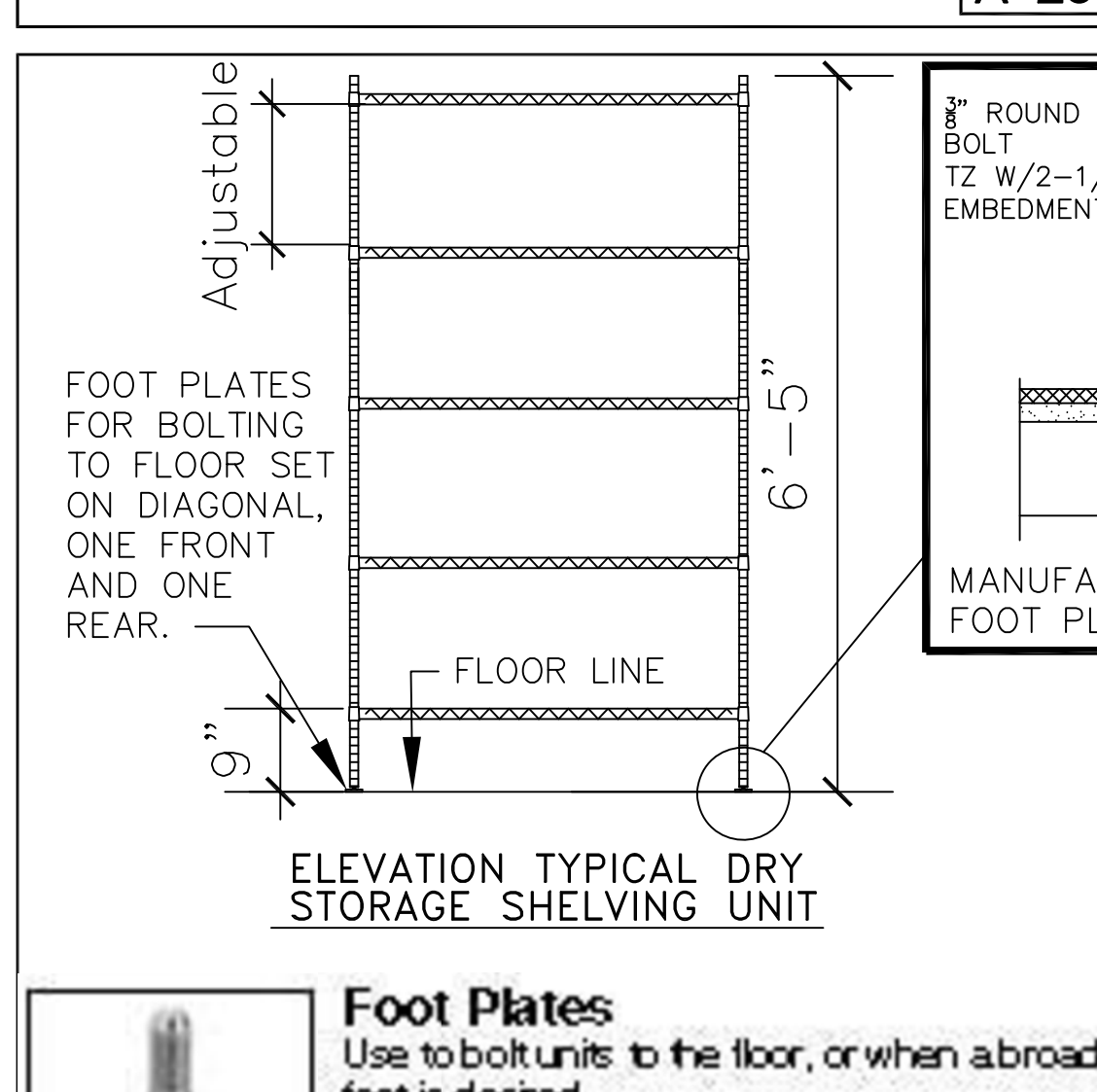
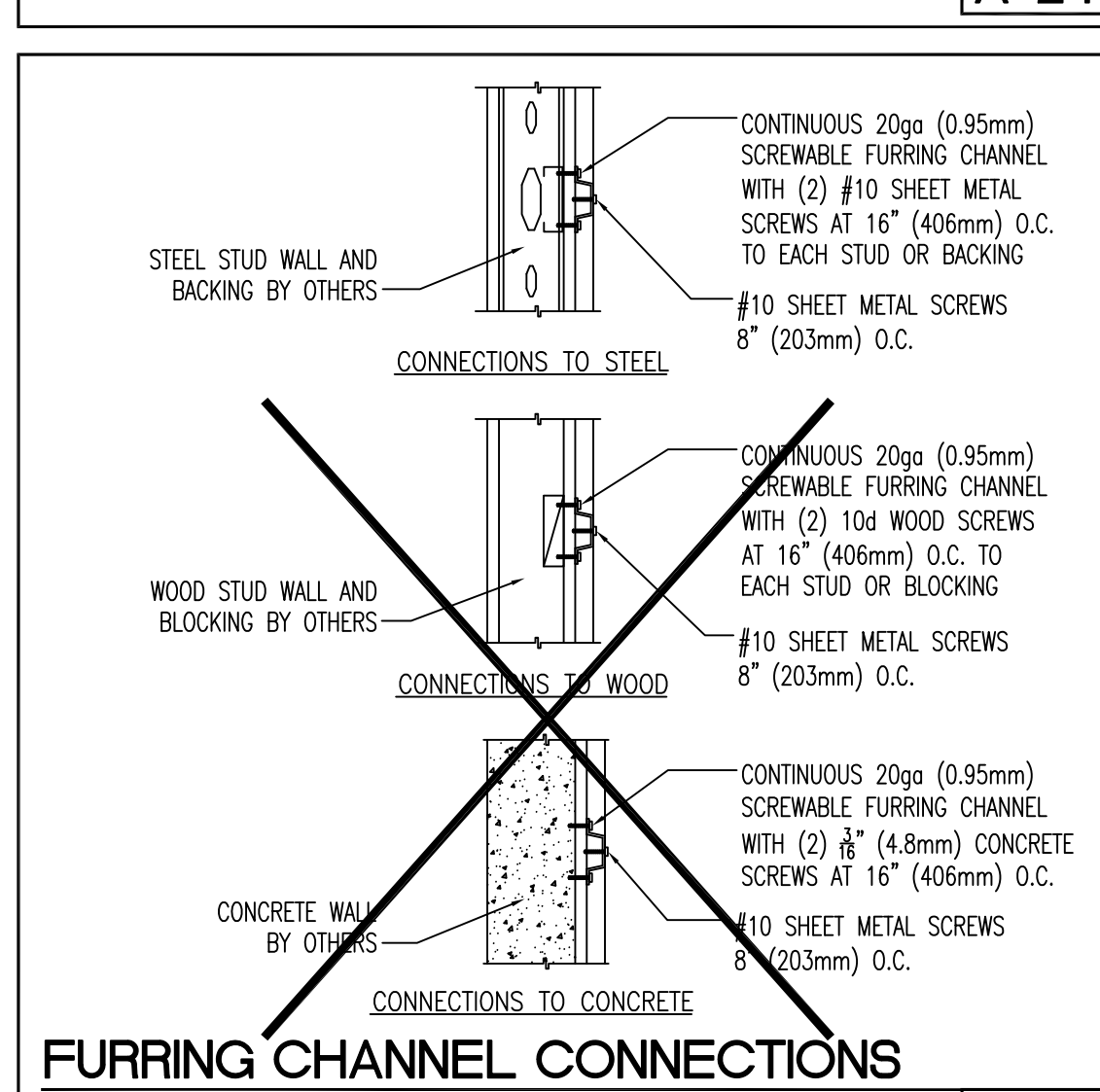
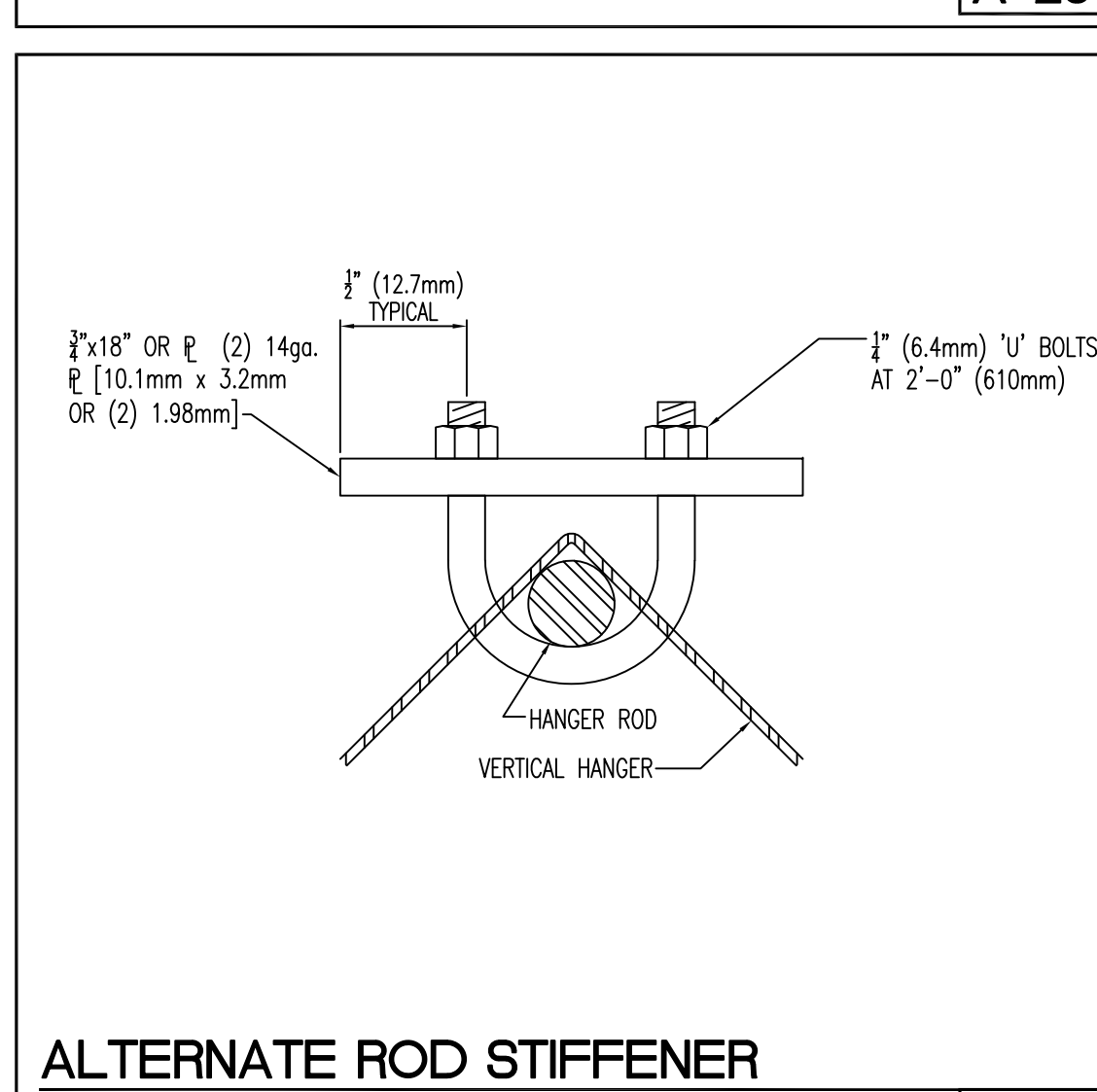
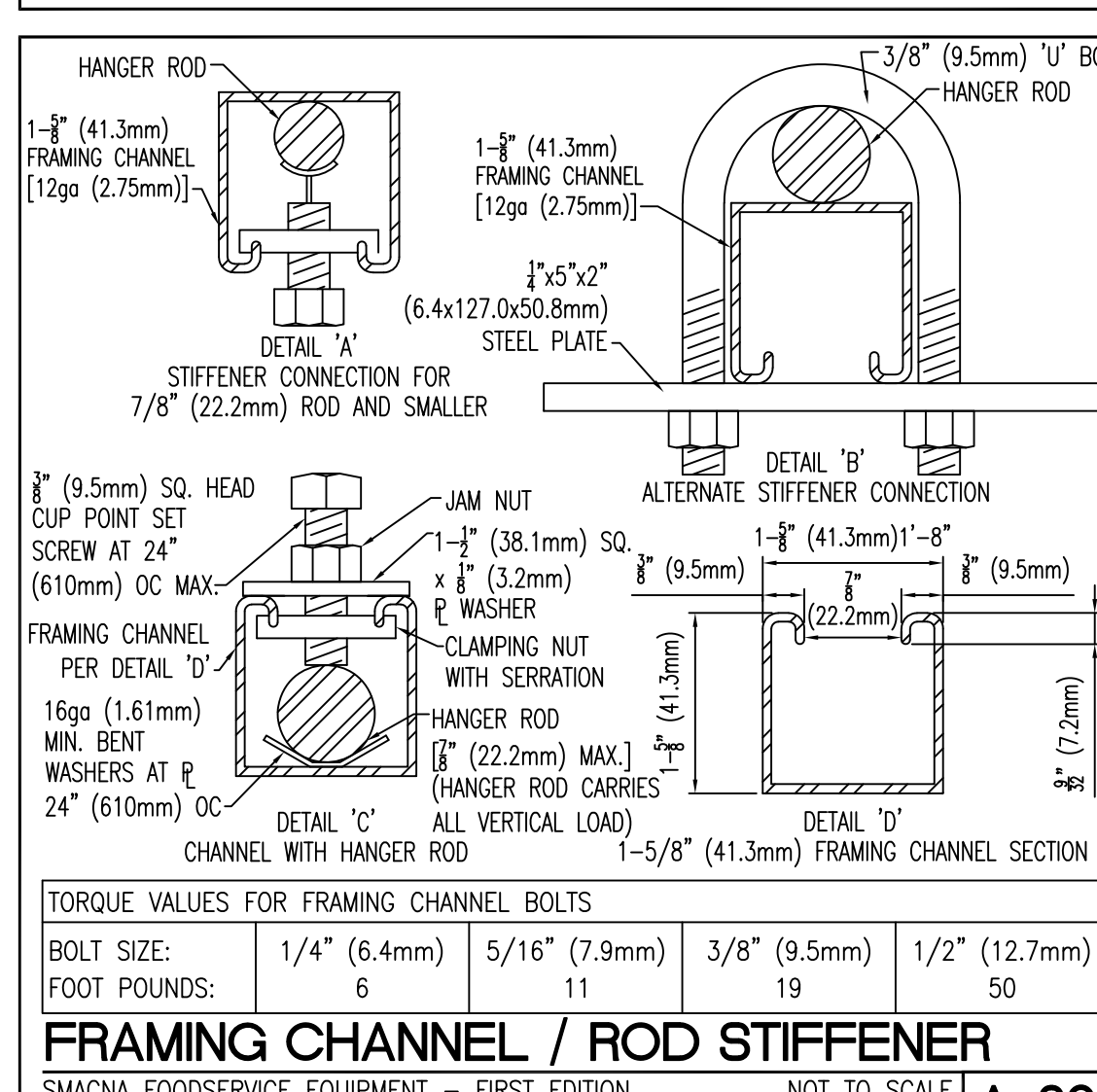
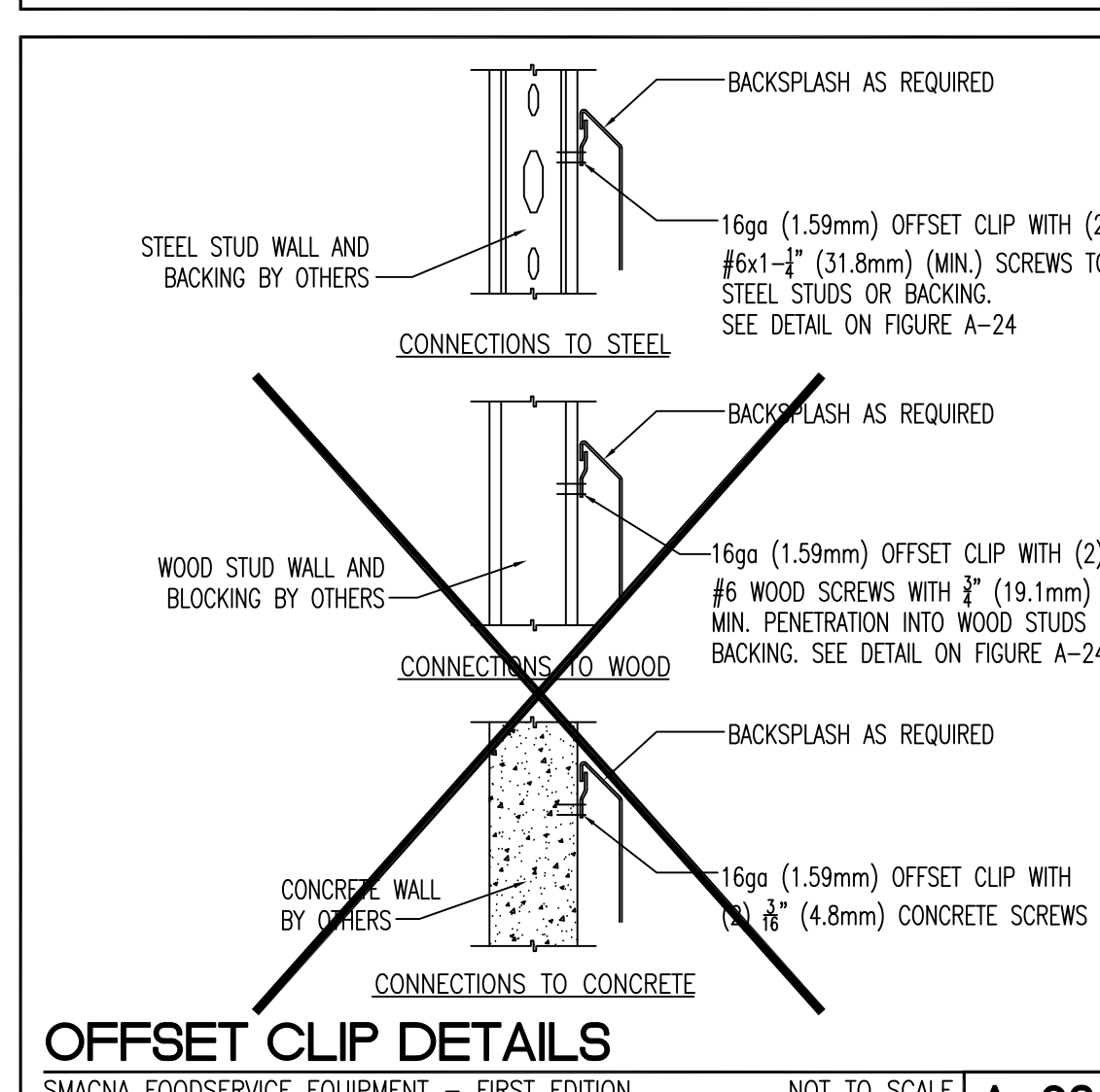
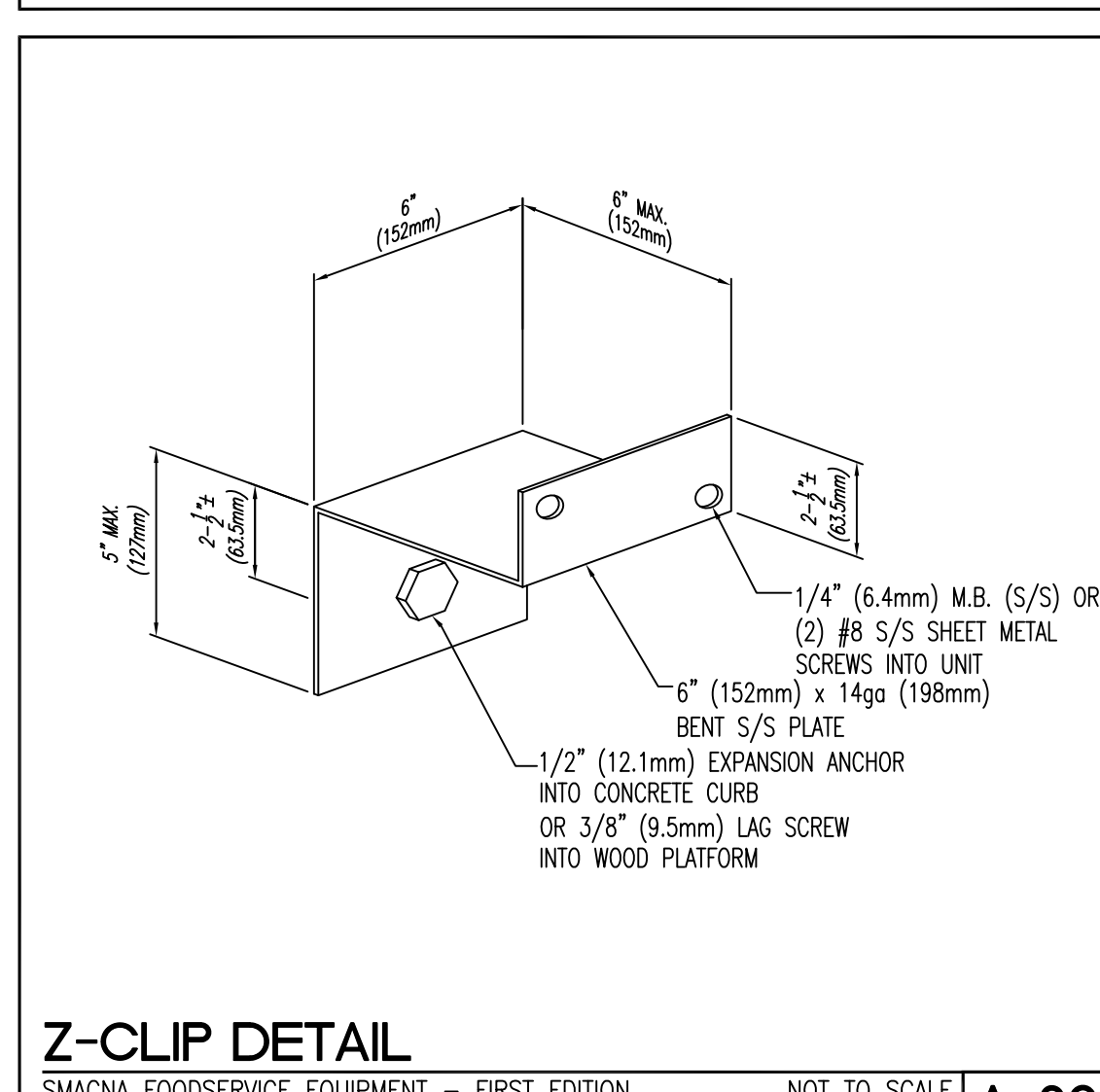
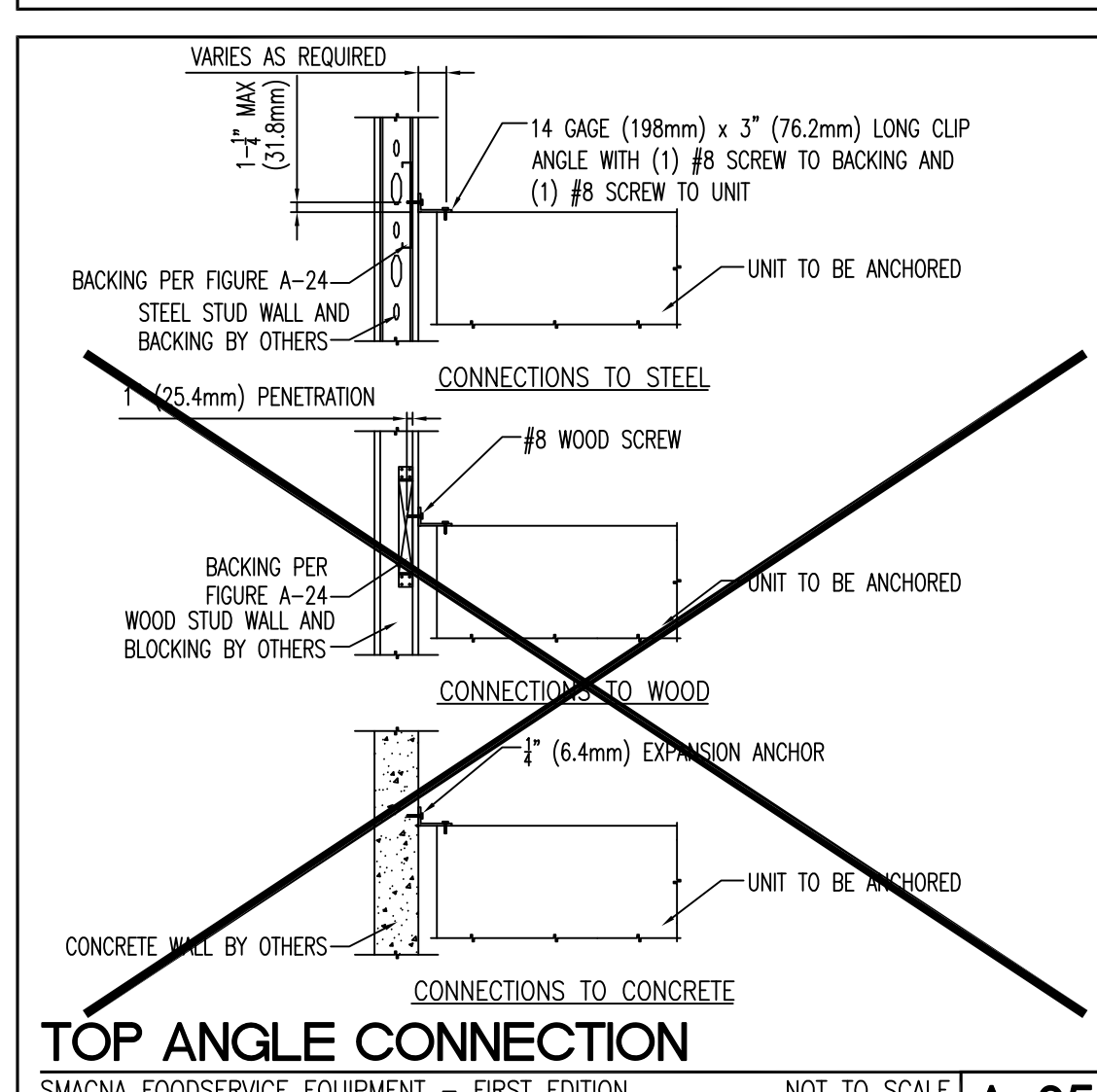
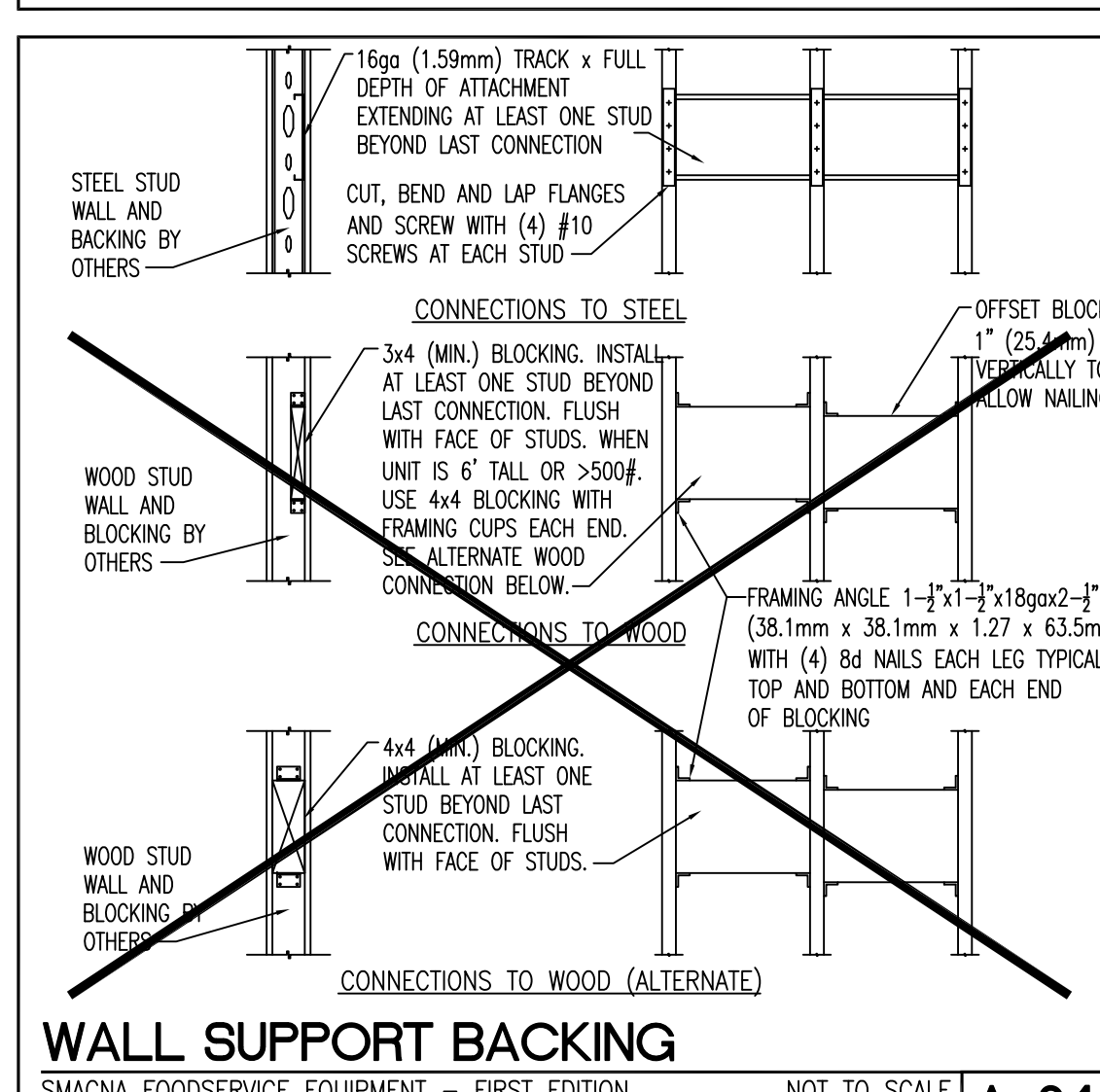
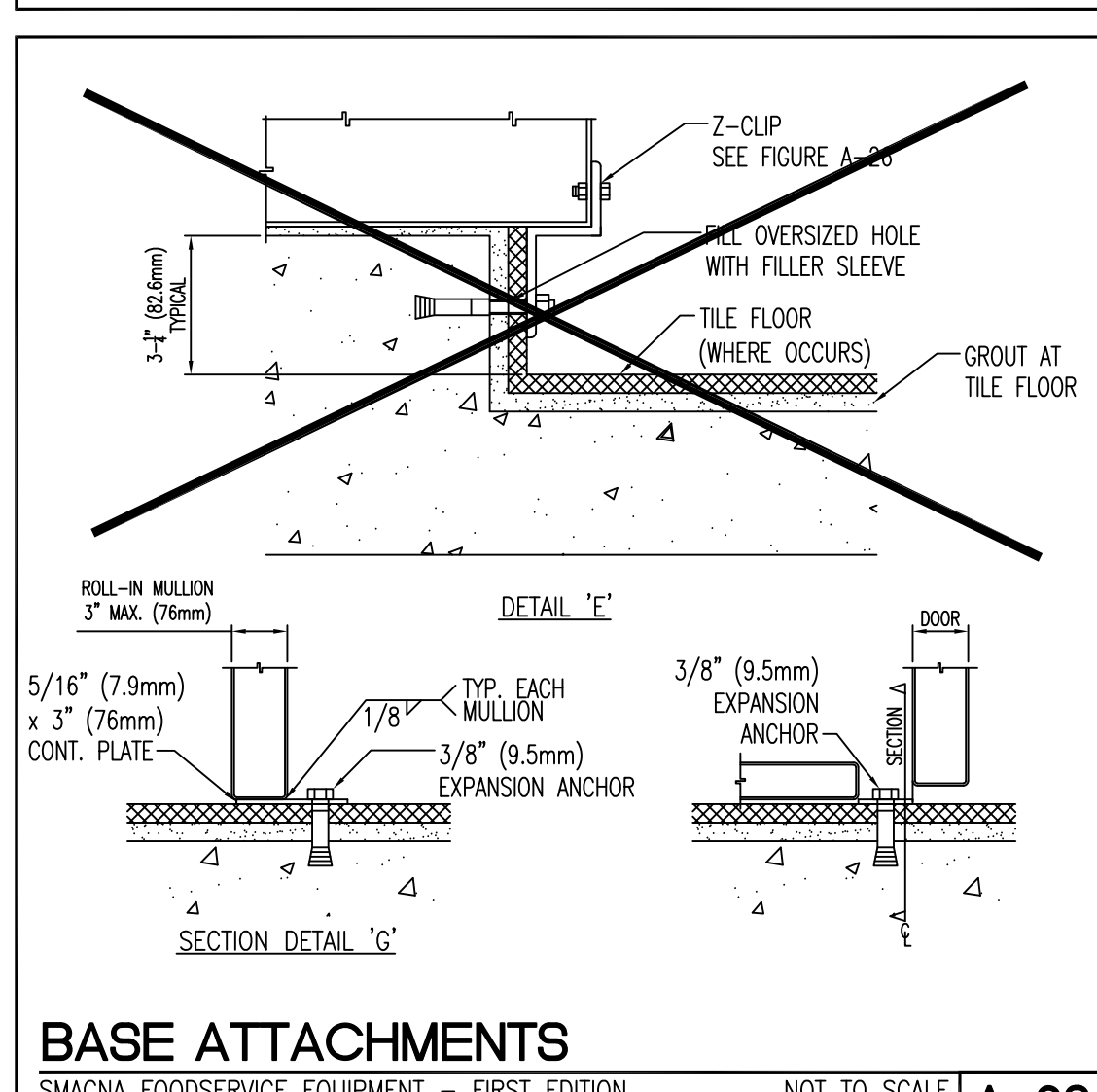
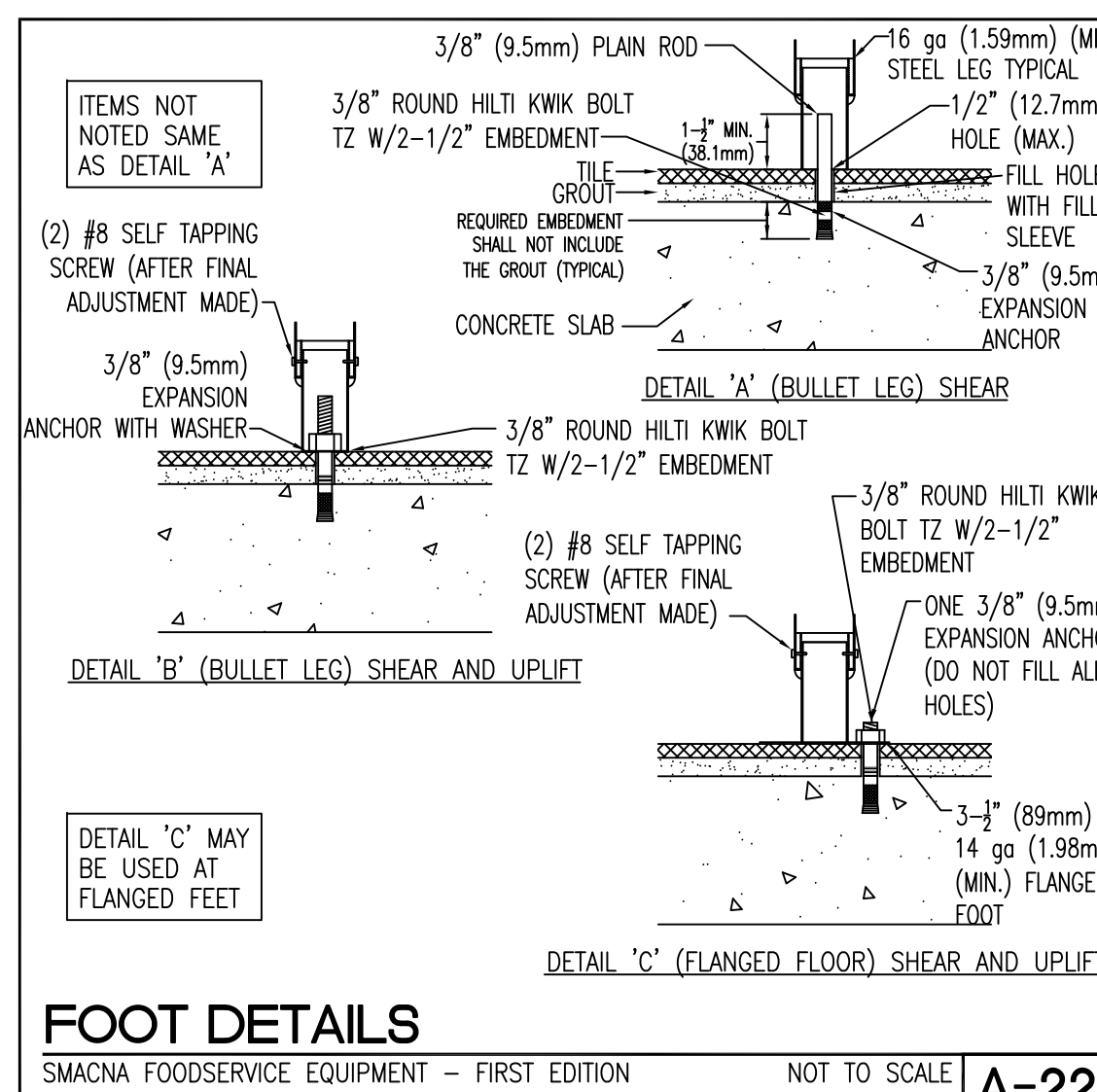
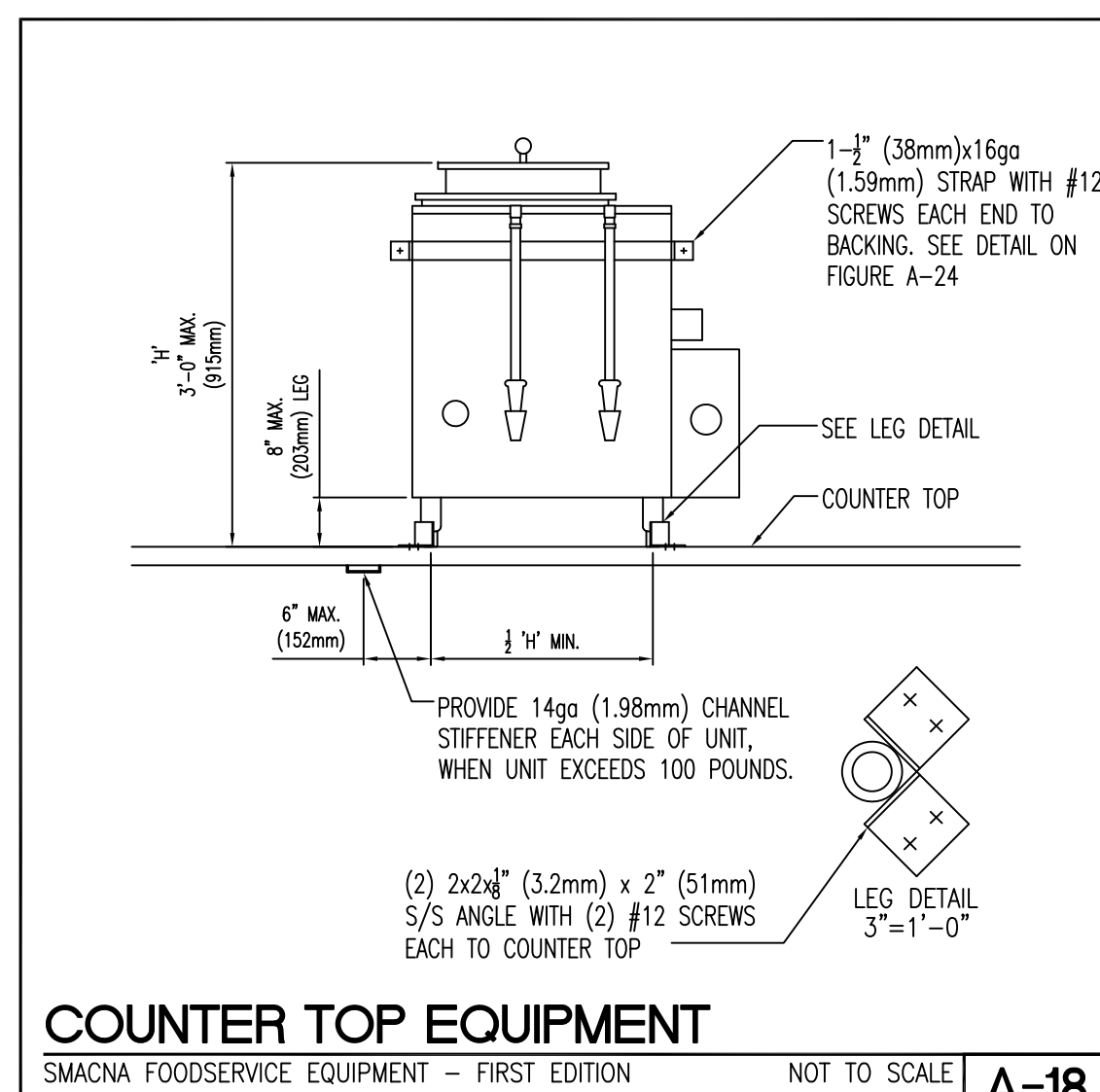
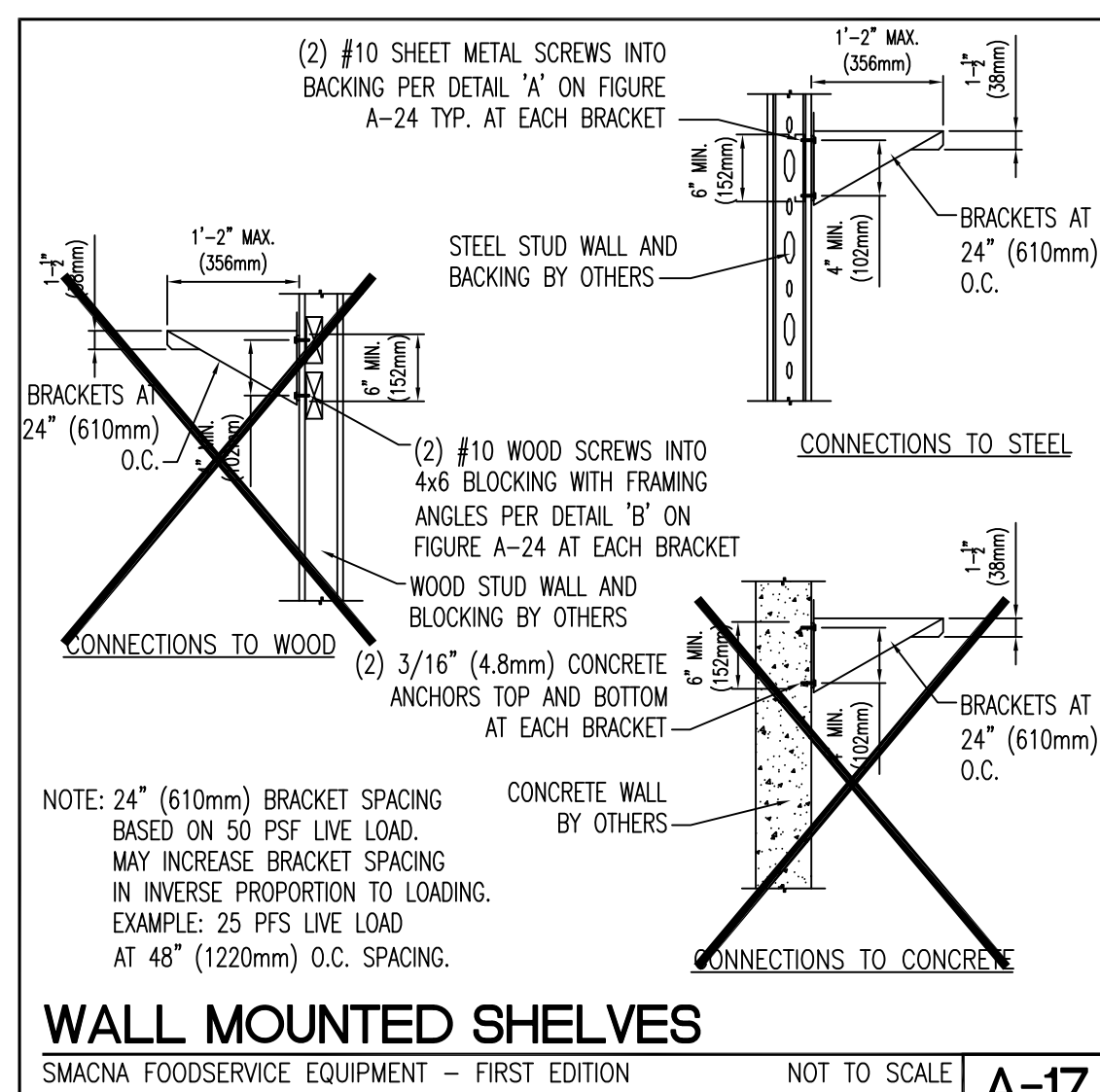
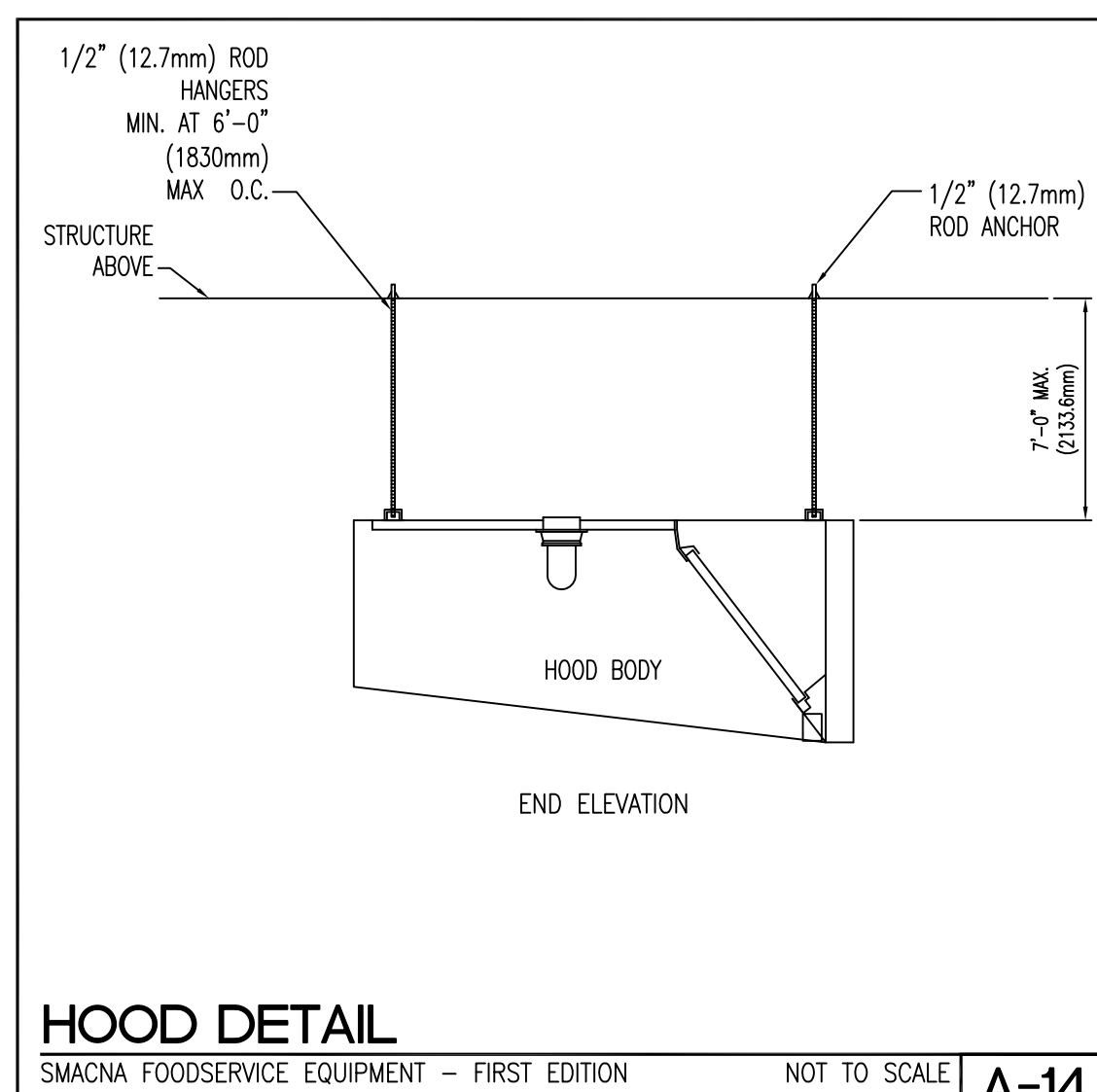
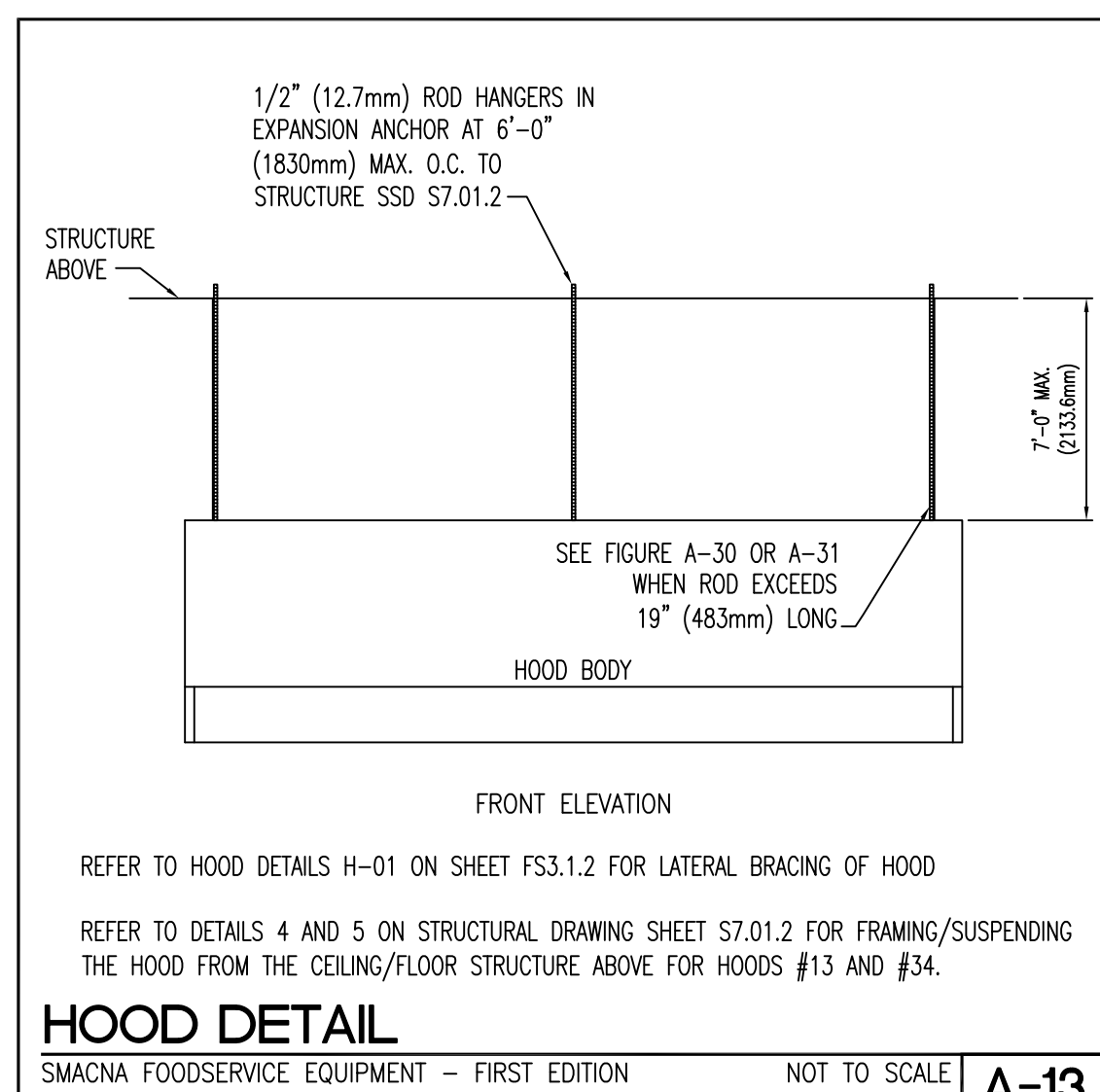
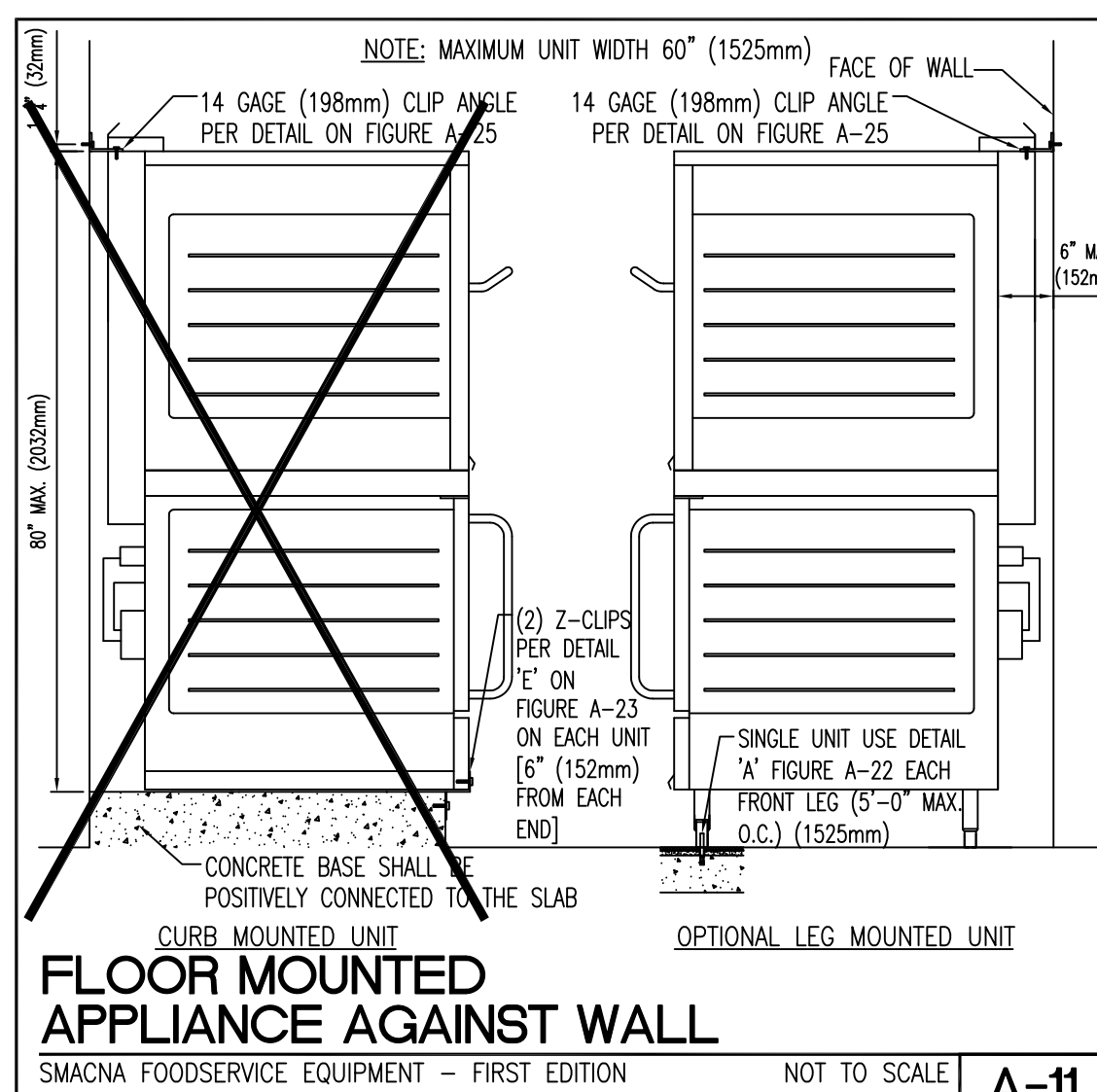
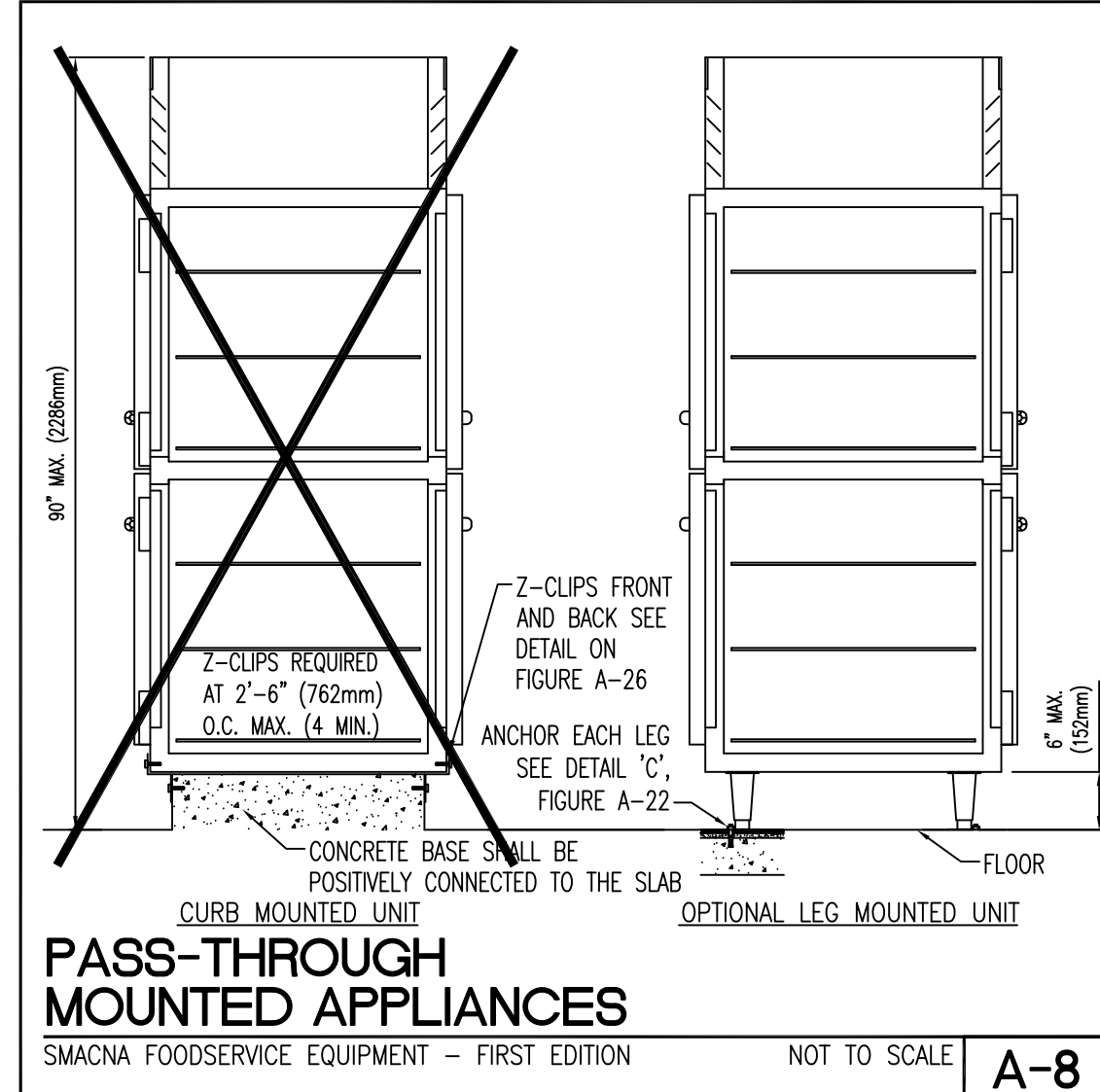
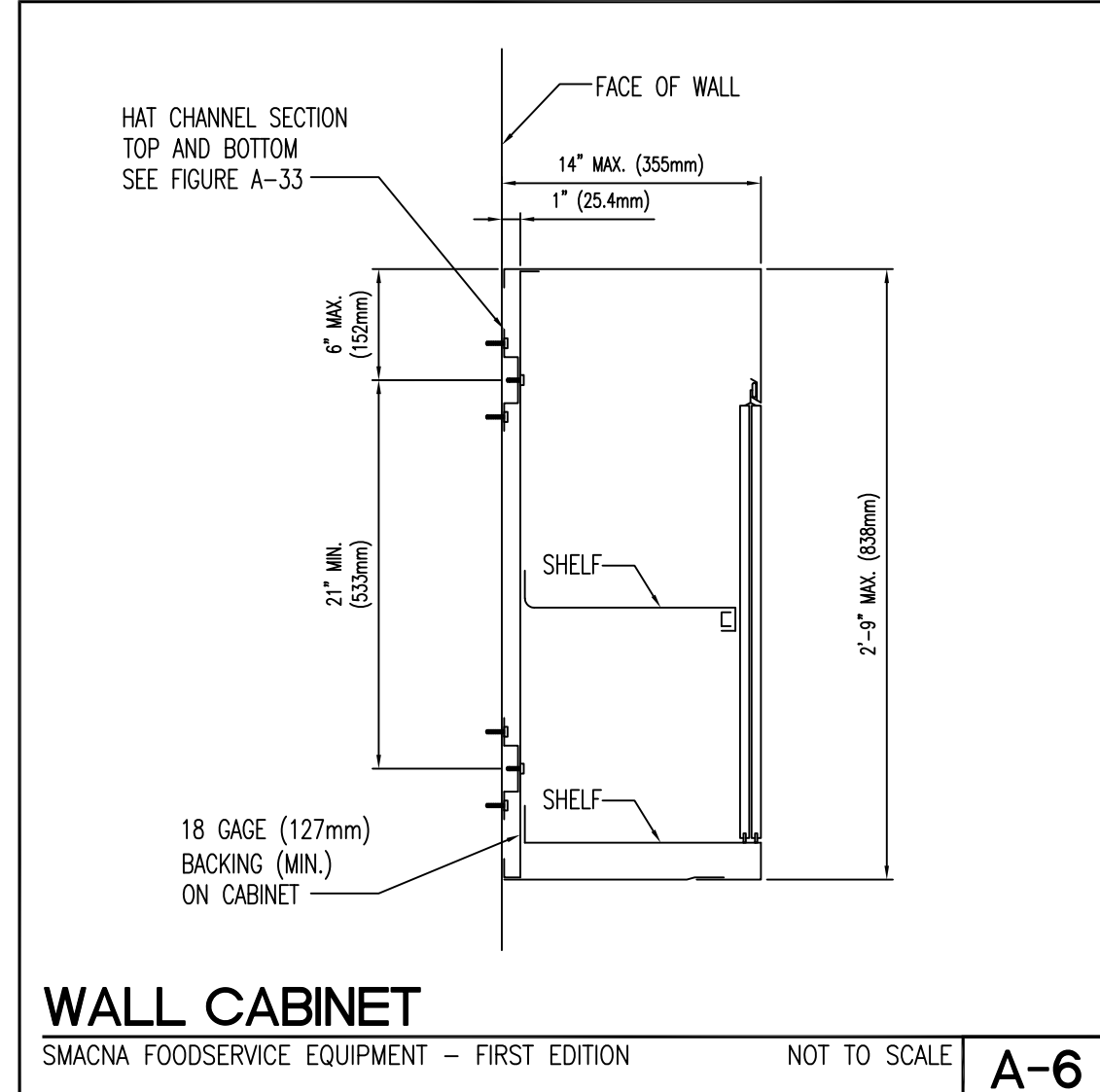
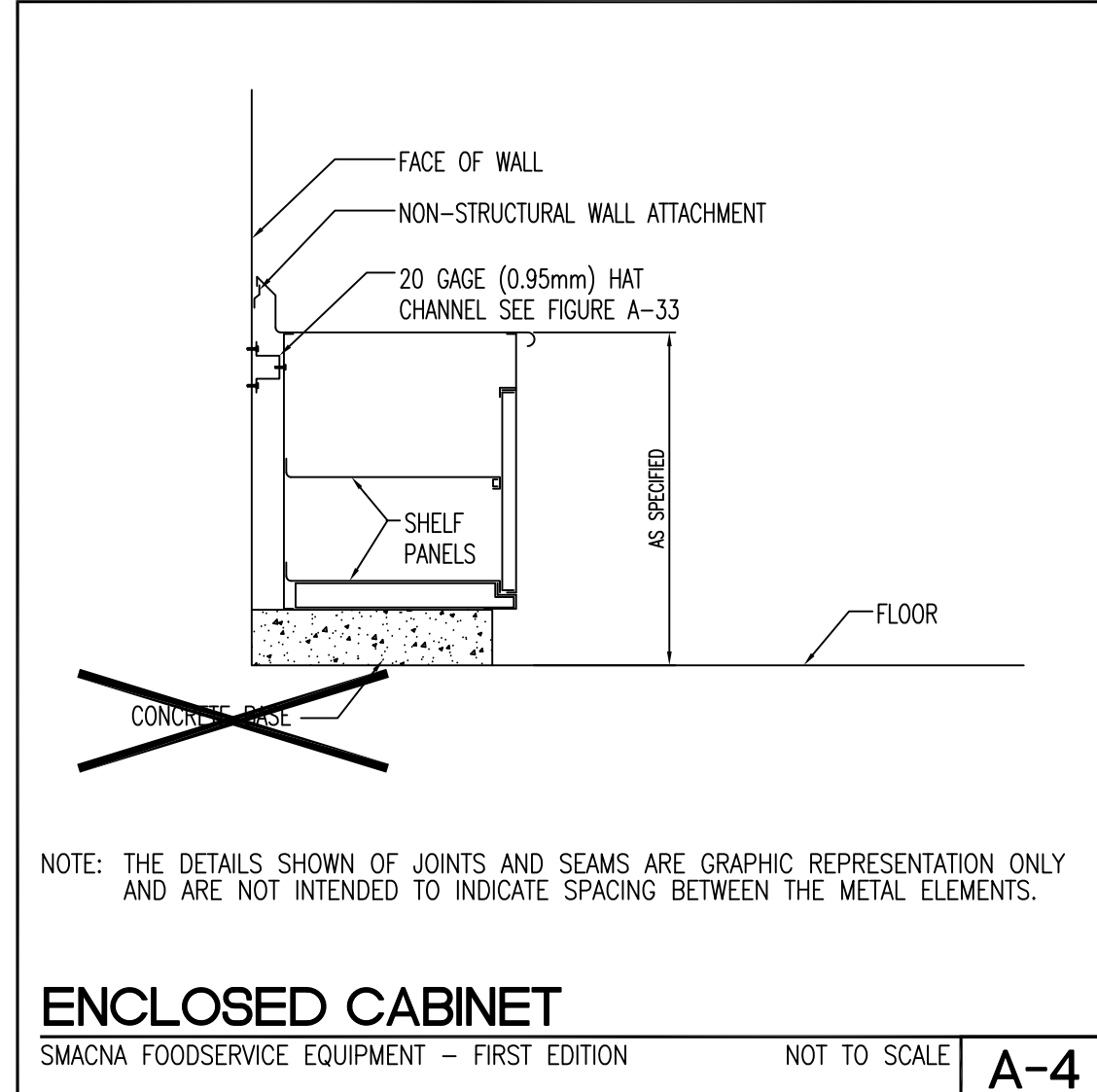
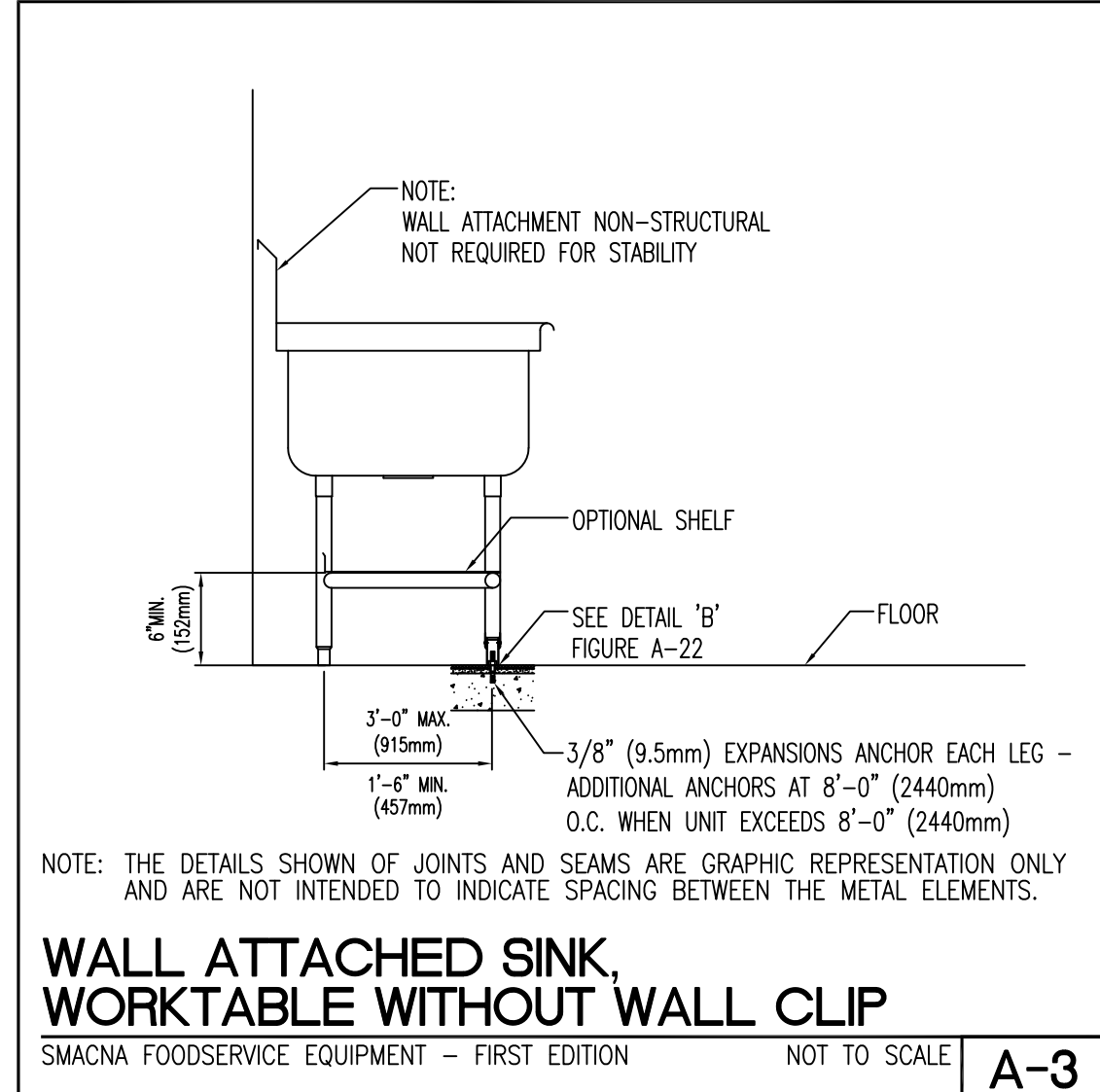
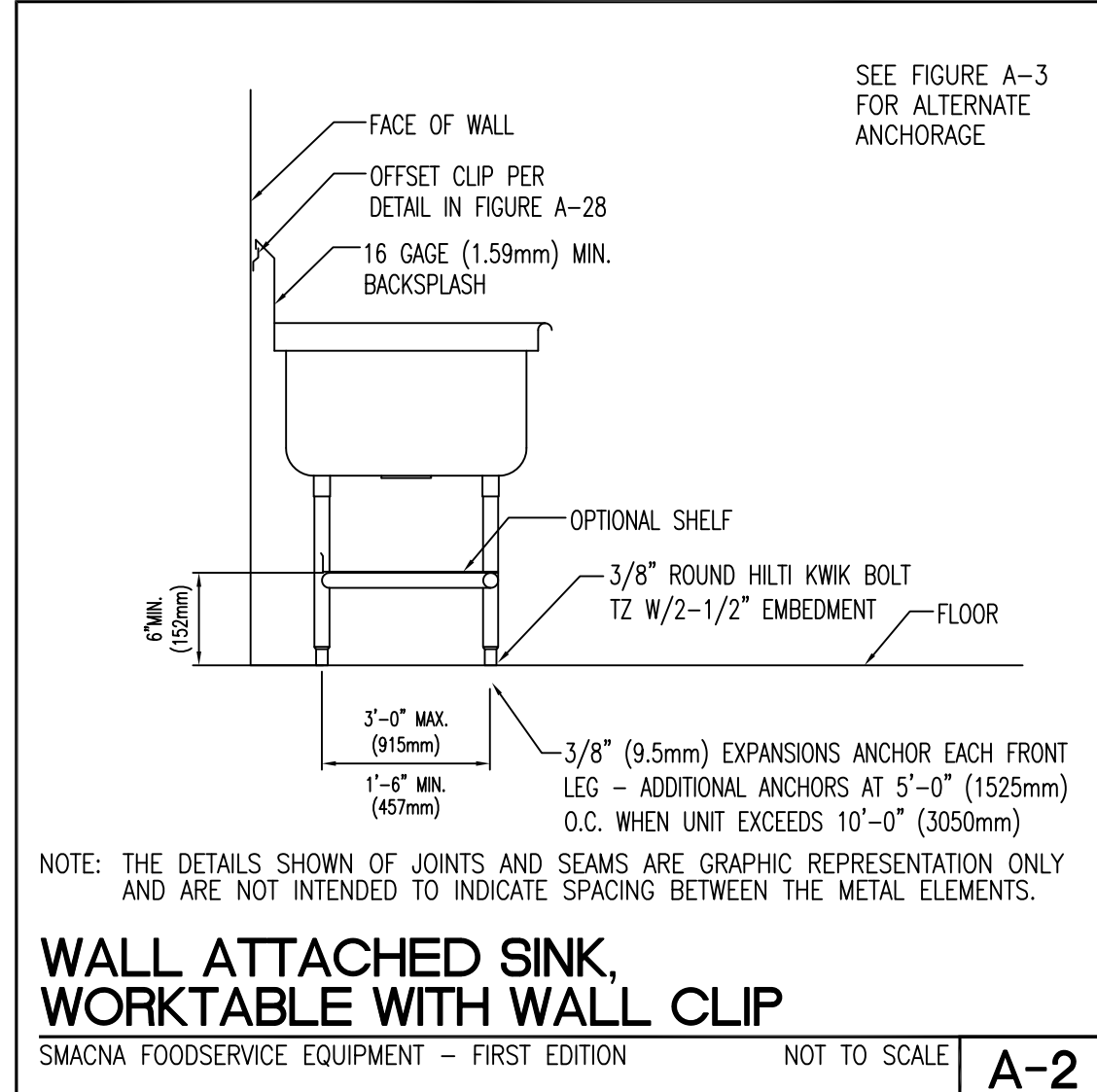
1690 Watermill Rd.
San Ramon, CA 94582

THESE DRAWINGS HAVE BEEN PREPARED FOR ADOPTIONS, CCD'S, ASIS AND SELECT RFI'S OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM UNLESS A SELECT FEW AS-BUILTS WERE SUBMITTED.

INCREMENT 2

| DATE | DESCRIPTION |
|---------|---------------------|
| 8/21/19 | INC 2 - ADDENDUM 02 |
| 8/27/19 | INC 2 - ADDENDUM 03 |
| 4/15/21 | CCD 111 |

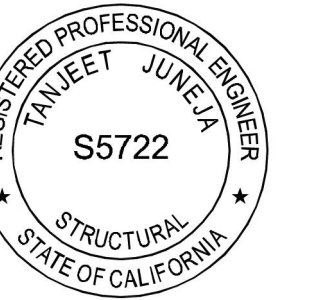
**FIRST FLOOR CAFE
FOOD SERVICE ITEMIZED
EQUIPMENT SMACNA
DETAILS**



NOLL & TAM ARCHITECTS

729 Heinz Avenue
Berkeley, CA 94710
tel 510.542.2200
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SEAL



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PROJECT TITLE

CONTRA COSTA CCD D-4002 DVC SAN RAMON CAMPUS EXPANSION & RENOVATION

1690 Watermill Rd.
San Ramon, CA 94582

RECORD SET:

THESE DRAWINGS HAVE BEEN PREPARED FROM ADDENDUMS, CCD'S, ASIS AND SELECT RFI'S OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM. ONLY A SELECT FEW AS-BUILTS WERE SUBMITTED.

ISSUE TITLE

INCREMENT 2 - AS-BUILT - FINAL

ISSUE DATE 08/23/2023

NOLL & TAM JOB NUMBER 21630

REVISIONS

| NO. | DATE | DESCRIPTION |
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| | | |

SHEET TITLE
STRUCTURAL COVER SHEET

SHEET NUMBER

S0.00.2



| SHEET LIST | |
|--------------|--|
| SHEET NUMBER | SHEET NAME |
| S0.00.2 | STRUCTURAL COVER SHEET |
| S0.01.2 | STRUCTURAL GENERAL NOTES |
| S0.02.2 | STRUCTURAL GENERAL NOTES |
| S0.03.2 | SYMBOLS & ABBREVIATIONS |
| S2.01.2 | FOUNDATION PLAN |
| S2.02.2 | ROOF FRAMING PLAN |
| S2.40.2 | ROOF PLAN - WEST |
| S5.01.2 | TYPICAL CONCRETE REINFORCEMENT DETAILS |
| S5.02.2 | TYPICAL CONCRETE SLAB DETAILS |
| S5.03.2 | TYPICAL CONCRETE FOUNDATION DETAILS |
| S6.01.2 | TRASH ENCLOSURE PLANS & DETAILS |
| S7.01.2 | STEEL DETAILS |
| S8.01.2 | TYPICAL WOOD DETAILS |
| S8.02.2 | TYPICAL WOOD DETAILS |
| S8.03.2 | TYPICAL WOOD DETAILS |
| S8.04.2 | TYPICAL WOOD I-JOIST DETAILS |
| S8.05.2 | WOOD I-JOIST DETAILS |
| S8.06.2 | WOOD DETAILS |
| S8.07.2 | WOOD ROOF TRUSSES |
| S9.01.2 | METAL STUD WALL DETAILS |
| S9.02.2 | METAL STUD WALL DETAILS |

Total Sheets: 21

GENERAL STRUCTURAL NOTES

APPROVALS

PART I - DESIGN CRITERIA

- GENERAL BUILDING CODE
 - THE CONSTRUCTION DOCUMENTS ARE BASED ON THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE 2016.
 - THE STRUCTURAL DRAWINGS AND SPECIFICATIONS ARE INTENDED TO PROVIDE FOR STRUCTURAL DESIGN OF THE BUILDING IN ACCORDANCE WITH THE 2016 CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2. IF CONDITIONS NOT COVERED BY THE CONTRACT DOCUMENTS ARISE DURING CONSTRUCTION SUCH THAT THE COMPLETED WORK WILL NOT BE IN COMPLIANCE WITH THESE REGULATIONS, A CHANGE ORDER DETAILING SUCH WORK REQUIRED TO BE IN COMPLIANCE SHALL BE SUBMITTED TO DSA AND APPROVED PRIOR TO THE CONTRACTOR PROCEEDING WITH SAID WORK.
 - NEW LIBRARY/TUTORIAL BUILDING: RISK CATEGORY (CBC TABLE 1604A.5) : II
 - EXISTING BUILDING: RISK CATEGORY III
- DEAD LOADS
 - HANGING CEILING AND MECHANICAL LOADS: AN ALLOWANCE OF 8 PSF HAS BEEN MADE FOR HANGING CEILING AND MECHANICAL EQUIPMENT LOADS SUCH AS DUCT WORK AND SPRINKLER PIPES IN THE NEW LIBRARY/TUTORIAL.
 - FUTURE ROOF SOLAR PANELS: AN ALLOWANCE OF 5 PSF HAS BEEN MADE FOR SOLAR PANELS IN THE ROOF AREA DESIGNATED "SOLAR READY ZONE" ON A2.51.2 ROOF PLAN.
- LIVE LOADS
 - PARTITIONS: IN AREAS WITH PARTITIONS SUBJECT TO CHANGE, AN ALLOWANCE OF 15 PSF HAS BEEN MADE FOR PARTITIONS AS A UNIFORMLY DISTRIBUTED LIVE LOAD WHERE THE LIVE LOAD AS STATED BELOW IS 80 PSF OR LESS.
 - DESIGN LIVE LOADS ARE BASED ON THE MORE RESTRICTIVE OF THE UNIFORM LOAD LISTED BELOW OR THE CONCENTRATED LOAD LISTED ACTING OVER AN AREA 2.5 FEET SQUARE.
 - ASSEMBLY AREAS: 100 PSF
 - CORRIDORS, FIRST FLOOR: 100 PSF | 1,000 LBS
 - LIBRARIES, READING ROOMS: 60 PSF | 1,000 LBS
 - LIBRARIES, STACK ROOMS: 150 PSF | 1,500 LBS
 - MECHANICAL ROOM FIRST FLOOR: 100 PSF | EQUIP. WT.
 - RESTROOMS: SAME AS OCCUPANCY SERVED
 - ROOFS: 20 PSF | 300 LBS; REDUCIBLE PER CODE
 - CLASSROOM FLOORS: 60 PSF | 1,000 LBS
 - STAIRS AND EXITS: 100 PSF | 300 LBS
 - STORAGE, LIGHT: 125 PSF
 - MECHANICAL PLATFORM: 40 PSF
 - REDUCTION OF LIVE LOADS:
 - LIVE LOADS HAVE BEEN REDUCED USING THE STANDARD PROCEDURE FROM THE BUILDING CODE.
 - FOR LIVE LOADS EXCEEDING 100 POUNDS PER SQUARE FOOT, NO REDUCTION HAS BEEN MADE, EXCEPT THAT THE DESIGN LIVE LOAD ON MEMBERS SUPPORTING TWO OR MORE FLOORS HAS BEEN REDUCED A MAXIMUM OF 20 PERCENT BUT THE LIVE LOAD IS NOT TO BE LESS THAN THAT CALCULATED BY THE FORMULA ABOVE.
- WIND LOADS
 - WIND PRESSURES ARE BASED ON THE PROVISIONS OF THE AMERICAN SOCIETY OF CIVIL ENGINEERS, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE 7-10, THE ALL HEIGHT METHOD OF CBC 609.14 AND THE FOLLOWING CRITERIA:
 - ULTIMATE DESIGN WIND SPEED (VULT): 110 MPH (3 SECOND GUST)
 - NOMINAL DESIGN WIND SPEED (VSD): 85 MPH (3-SECOND GUST)
 - WIND EXPOSURE CATEGORY: II
 - WIND IMPORTANCE FACTOR: I = 1.0
 - SNOW LOADS - NOT APPLICABLE
 - SEISMIC DESIGN CRITERIA
 - THE STRUCTURE AND COMPONENTS OF THE NEW LIBRARY/TUTORIAL BUILDING HAVE BEEN DESIGNED IN ACCORDANCE WITH AFOREMENTIONED BUILDING CODE WITH THE FOLLOWING CRITERIA:
 - 0.2 SEC. SPECTRAL ACCELERATION (SS): 1.969G
 - 1 SEC. SPECTRAL ACCELERATION (S1): 0.674G
 - SITE CLASS: D
 - SITE COEFFICIENT, SHORT PERIOD (FA): 1.0
 - SITE COEFFICIENT, 1 SEC. PERIOD (FV): 1.5
 - 0.2 SEC SPECTRAL RESPONSE SPECTRA (SDS): 1.313G
 - 1 SEC SPECTRAL RESPONSE COEFF. (SD1): 0.674G
 - SEISMIC IMPORTANCE FACTOR, I: 1.0
 - SEISMIC DESIGN CATEGORY: II
 - SEISMIC REDUNDANCY FACTOR, RHO: 1.0
 - SEISMIC RESPONSE COEFFICIENT, CS: 0.202
 - BASIC SEISMIC FORCE RESISTING SYSTEM: PLYWOOD SHEAR WALLS / BEARING WALLS
 - RESPONSE MODIFICATION FACTOR, R: 6.5
 - SYSTEM OVERSTRENGTH FACTOR, OMEGA-O: 3.0
 - DEFLECTION AMPLIFICATION FACTOR, CD: 4.0
 - PLAN STRUCTURAL IRREGULARITY TYPE: NONE
 - VERTICAL STRUCTURAL IRREGULARITY TYPE: NONE
 - ANALYTICAL PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
 - SEISMIC DEMANDS ON NONSTRUCTURAL COMPONENTS, STRUCTURAL COMPONENTS ENGINEERED AS PART OF DEFERRED SUBMITTALS, AND CONNECTIONS OF THOSE COMPONENTS TO THE PRIMARY STRUCTURE SHALL BE DESIGNED IN ACCORDANCE WITH THE AFOREMENTIONED BUILDING CODE, THE GENERAL SEISMIC CRITERIA LISTED ABOVE, AND THE REQUIREMENTS OF ASCE 7-10, CHAPTERS 12.11, 13.3, AND 13.4 AS APPROPRIATE.
- FUTURE EXPANSION
 - NO PROVISIONS FOR ANY FUTURE EXPANSIONS HAVE BEEN MADE IN THE STRUCTURAL DESIGN.
- BUILDING MOVEMENT AND DEFLECTIONS
 - THE BUILDING MOVEMENT SPECIFIED HEREIN IS ANTICIPATED TO OCCUR AND SHOULD BE CONSIDERED BY THE CONTRACTOR IN THE PERFORMANCE OF THE WORK.
 - SPANDREL BEAM DEFLECTIONS: THE FOLLOWING PROVISION SHALL BE MADE FOR SUPERIMPOSED LOAD DEFLECTION OF ONE FLOOR RELATIVE TO AN ADJACENT FLOOR IN THE DESIGN, FABRICATION AND INSTALLATION OF THE BUILDING CLADDING: FLOOR TO ROOF HEIGHT/400. THE DEFLECTIONS LISTED ABOVE ARE BASED ON WIND LOADS WITH A 10-YEAR MEAN RECURRENCE INTERVAL.
 - LATERAL FRAME WIND DEFLECTION (DRIFT): THE FOLLOWING PROVISION FOR LATERAL FRAME DEFLECTION IN THE PLANE OF THE WALL OF ONE FLOOR RELATIVE TO AN ADJACENT FLOOR SHALL BE MADE IN THE DESIGN, FABRICATION AND INSTALLATION OF THE BUILDING CLADDING: FLOOR TO ROOF HEIGHT/400. THE DEFLECTIONS LISTED ABOVE ARE BASED ON WIND LOADS WITH A 10-YEAR MEAN RECURRENCE INTERVAL.
 - LATERAL FRAME SEISMIC DEFLECTION: THE FOLLOWING PROVISION FOR INELASTIC LATERAL FRAME DEFLECTION IN THE PLANE OF THE WALL ONE FLOOR RELATIVE TO AN ADJACENT FLOOR/ROOF SHALL BE MADE IN THE DESIGN, FABRICATION AND INSTALLATION OF BUILDING CLADDING AS SPECIFIED IN THE BUILDING CODE: FLOOR TO FLOOR HEIGHT X 0.02.

PART II - FOUNDATION

- GEOTECHNICAL REPORT
 - FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL INVESTIGATION REPORT TITLED "GEOTECHNICAL INVESTIGATION FOR PROPOSED NEW TUTORIAL LIBRARY BUILDING, DIABLO VALLEY COLLEGE - SAN RAMON CAMPUS", PREPARED BY RMA GROUP, AND DATED SEPTEMBER 11, 2018.
 - THE GEOTECHNICAL REPORT IS AVAILABLE TO THE GENERAL CONTRACTOR UPON REQUEST TO THE OWNER. THE ARCHITECT AND ENGINEER WILL NOT BE RESPONSIBLE FOR THE ACCURACY OR APPLICABILITY OF SUCH DATA THEREIN.
- SHALLOW FOUNDATION
 - THE SIZES AND BOTTOM ELEVATIONS OF SPREAD FOOTINGS ARE ESTABLISHED BASED ON THE REQUIREMENTS OF THE PROPOSED GEOTECHNICAL REPORT. AS EXCAVATIONS PROGRESS, CONDITIONS MAY DEVELOP WHICH REQUIRE CHANGES IN THE FOOTING ELEVATIONS AND/OR SIZES. SUCH CHANGES SHALL BE MADE ONLY AS DIRECTED BY THE GEOTECHNICAL ENGINEER WITH THE APPROVAL OF DSA.
 - DESIGN (NET) PRESSURES:

| | |
|--|---|
| 1. DEAD AND LIVE LOAD: | 2,000 PSF WITH 18" MIN WIDTH AND 24" MIN DEPTH, MAY BE INCREASED 10% FOR EACH ADDITIONAL FOOT OF WIDTH OR DEPTH TO A MAXIMUM OF 3,000 PSF |
| 2. DEAD, LIVE AND SEISMIC (WIND) LOAD: | 1/3 INCREASE OVER DEAD + LIVE ALLOWABLE PRESSURE |
 - FOOTINGS SHALL EXTEND A MINIMUM OF 2'-0" INCHES BELOW LOWEST ADJACENT GRADE AND BEAR ON ENGINEERED FILL.
 - GRADE BEAMS:
 - GRADE BEAM SIDES, EXCEPT AS NOTED ON THE DRAWINGS, NON-EXPOSED GRADE BEAM SIDES MAY BE EARTH FORMED. REFER TO SPECIFICATIONS FOR COMPLETE REQUIREMENTS.
 - BAR SUPPORTS FOR GRADE BEAM CAGES, GRADE BEAM BOTTOM STEEL SHALL BE CHARGED AT 5'-0" MAXIMUM CENTERS USING BEAM BOLSTERS PROVIDING 3" BOTTOM COVER TO REINFORCING BARS. BEAM BOLSTERS USED SHALL BE DESIGNED AND MANUFACTURED FOR SUPPORT ON SOIL.
- RETAINING WALLS
 - DESIGN CRITERIA
 - ACTIVE SOIL PRESSURE: 47 PSF PER FOOT OF DEPTH (LEVEL SURFACE SLOPE).
 - AT-REST SOIL PRESSURE: 66 PSF PER FOOT OF DEPTH (LEVEL SURFACE SLOPE).
 - SEISMIC LATERAL EARTH PRESSURE: 19 PSF, APPLIED AS AN INVERTED TRIANGLE WITH RESULTANT APPLIED AT UPPER 1/3 OF WALL HEIGHT.
 - THE DESIGN PRESSURES SPECIFIED ABOVE ARE BASED ON DRAINED BACKFILL WITH NO BUILDUP OF WATER PRESSURE BEHIND THE WALLS.
 - LATERAL RESISTANCE
 - PASSIVE PRESSURE = 247 PCF
 - COEFFICIENT OF FRICTION = 0.28

PART III - REINFORCED CONCRETE

- CLASSES OF CONCRETE
 - ALL CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF THE "CLASSES OF CONCRETE MATRIX" ON SHEET SS.01 UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- HORIZONTAL CONSTRUCTION JOINTS IN CONCRETE POURS
 - THERE SHALL BE NO HORIZONTAL CONSTRUCTION JOINTS IN ANY CONCRETE POURS UNLESS SHOWN ON THE DRAWINGS. THE ARCHITECT/ENGINEER SHALL APPROVE ALL DEVIATIONS OR ADDITIONAL JOINTS IN WRITING.
- REINFORCING STEEL
 - ALL REINFORCING STEEL SHALL BE ASTM A 615 GRADE 60 UNLESS NOTED OTHERWISE ON THE DRAWINGS OR IN THESE NOTES.
 - REINFORCING STEEL: PROVIDE REINFORCING STEEL CONFORMING TO ASTM A 706 GRADE 60 FOR ALL REINFORCING STEEL REQUIRED TO BE WELDED AND WHERE NOTED ON THE DRAWINGS.
 - DEFORMED BAR ANCHORS: AWS D1.1 TYPE C (TABLE 7.1) STUDS MANUFACTURED IN CONFORMANCE WITH SPECIFICATION ASTM A 104 WITH A MINIMUM YIELD STRENGTH 70,000 PSI. REINFORCING BARS SHALL NOT BE SUBSTITUTED FOR DEFORMED BAR ANCHORS.
 - HEADED STUD ANCHORS FOR EMBEDDED PLATES: AWS D1.1 TYPE A STUDS MANUFACTURED IN CONFORMANCE WITH SPECIFICATION ASTM A 108 WITH A MINIMUM TENSILE STRENGTH OF 61,000 PSI.
 - SMOOTH WELDED WIRE REINFORCEMENT: ASTM A 185, YIELD STRENGTH 65,000 PSI.
 - TERMINATION OF REINFORCEMENT (UNLESS NOTED OTHERWISE)
 - TERMINATE ALL BARS IN LAPS, 90 DEGREE BENDS, OR WITH DOWELS INTO EXISTING CONCRETE.
 - FOOTINGS AND GRADE BEAMS
 - BEND TOP BARS DOWN WITH STANDARD 90 DEGREE BENDS
 - BEND BOTTOM BARS UP WITH STANDARD 90 DEGREE BENDS
 - PROVIDE DOWELS INTO FOOTINGS OF SAME SIZE AND SPACING AS SLAB REINFORCEMENT
- PLACEMENT OF WELDED WIRE REINFORCEMENT
 - WHEREVER WELDED WIRE REINFORCEMENT IS SPECIFIED AS REINFORCEMENT, IT SHALL BE CONTINUOUS ACROSS THE ENTIRE CONCRETE SURFACE AND PROPERLY LAPPED PER ACI 318, 12.18 AND 12.19.
- REINFORCEMENT IN TOPPING SLABS
 - PROVIDE MINIMUM REINFORCEMENT AS NOTED BELOW IN ALL TOPPING SLABS UNLESS SPECIFIED OTHERWISE ON THE DRAWINGS.
 - WELDED SMOOTH WIRE REINFORCEMENT 6X6-W2.9XW2.9.
- REINFORCEMENT IN HOUSEKEEPING PADS
 - PROVIDE MINIMUM REINFORCEMENT AS NOTED BELOW IN ALL HOUSEKEEPING PADS SUPPORTING MECHANICAL EQUIPMENT UNLESS SPECIFIED OTHERWISE ON THE DRAWINGS.
 - WELDED SMOOTH WIRE REINFORCEMENT 6X6-W2.9XW2.9.
- REINFORCING STEEL COVERAGE
 - REINFORCING STEEL COVERAGE SHOULD CONFORM TO THE REQUIREMENTS SPECIFIED IN DETAILS LABELED "TYPICAL CLEAR CONCRETE COVER" ON SHEETS SS.01 UNLESS NOTED OTHERWISE ON THE DRAWINGS. COVER SPECIFIED SHALL BE CONSIDERED MINIMUMS THAT MAY REQUIRE INCREASING WHERE REINFORCING STEEL INTERSECTS FOR DIFFERENT MEMBER TYPES, COVER IN STRUCTURAL MEMBERS NOT SPECIFIED IN THE DETAILS SHALL CONFORM TO THE REQUIREMENTS OF ACI 318 UNLESS SPECIFIED OTHERWISE ON THE DRAWINGS. THE REINFORCING STEEL DETAILER SHALL ADJUST REINFORCING STEEL CAGE SIZES AT INTERSECTING STRUCTURAL MEMBERS AS REQUIRED TO ALLOW CLEARANCE FOR INTERSECTING REINFORCING BAR LAYERS WITH MINIMUM SPECIFIED COVER.

PART IV - WOOD

- FRAMING LUMBER
 - ALL FRAMING LUMBER SHALL BE DOUGLAS FIR UNLESS OTHERWISE NOTED. MOISTURE CONTENT SHALL BE S-DRY FOR ALL LUMBER UNLESS NOTED OTHERWISE IN THE SPECIFICATIONS.
 - JOISTS AND RAFTERS: NO. 1, UON
 - POSTS, BEAMS, AND HEADERS: NO. 1, UON
 - STUDS, PLATES, BLOCKS, AND MISCELLANEOUS LIGHT FRAMING: NO. 2, UON
 - LUMBER IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED DOUGLAS FIR.
 - PROVISIONS IN THE APPLICABLE LUMBER GRADING RULES WHICH PERMIT 2 PERCENT OF THE MATERIAL TO FALL BELOW GRADE SHALL NOT BE CONSTRUED TO PERMIT BELOW GRADE LUMBER AS LOAD BEARING STRUCTURAL FRAMING. LUMBER WHICH FALLS BELOW GRADE SHALL BE REJECTED FOR USE AS LOAD BEARING STRUCTURAL FRAMING. STRUCTURAL MEMBERS, JUDGED BY THE PROJECT INSPECTOR, ARCHITECT OR STRUCTURAL ENGINEER TO BE MIS-GRADED SHALL BE RE-INSPECTED BY A CERTIFIED LUMBER GRADING INSPECTOR TO VERIFY THE PROPER GRADINGS OF THE MEMBER. WOOD MEMBERS WITH PERMISSIBLE GRADE CHARACTERISTICS OR DEFECTS IN SUCH COMBINATION JUDGED TO AFFECT THE SERVICEABILITY OF THE MEMBER SHALL BE REJECTED BY THE PROJECT INSPECTOR WITH THE CONCURRENCE OF THE ARCHITECT OR STRUCTURAL ENGINEER.
- GLUED LAMINATED FRAMING
 - APPEARANCE
 - CONCEALED: INDUSTRIAL GRADE
 - EXPOSED: ARCHITECTURAL GRADE; SEE ARCHITECTURAL DRAWINGS FOR EXPOSED LOCATIONS
 - SIMPLE SPAN BEAMS: GRADE 24F-V4
 - CANTILEVER AND CONTINUOUS BEAMS AND TRUSS MEMBERS: GRADE 24F-V8
 - CAMBER GLULAM BEAMS TO A RADIUS OF 3500 FT. UON.
 - MANUFACTURE OF GLULAM BEAMS AND COLUMNS SHALL BE CONTINUOUSLY INSPECTED BY A QUALIFIED SPECIAL INSPECTOR APPROVED BY USA. EACH INSPECTED MEMBER SHALL BE STAMPED BY THE INSPECTOR WITH AN IDENTIFICATION MARK.

PART IV - WOOD (CONTINUED)

- STRUCTURAL SHEATHING
 - ROOF SHEATHING: UON - 5/8" PLYWOOD, APA RATED, GRADE STRUCTURAL I, EXPOSURE 1, 5 PLY. WALL SHEATHING: UON - 1/2" PLYWOOD, APA RATED, GRADE STRUCTURAL I, EXPOSURE 1, 5 PLY. FLOOR SHEATHING: 3/4" PLYWOOD, TONGUE & GROOVE EDGES, APA RATED, GRADE STRUCTURAL I, EXPOSURE 1, 5 PLY.
 - REFABRICATED WOOD JOISTS
 - BY REDBUILT LLC, ICC REPORT ESR 2904 (DATED JULY 2017) OR APPROVED EQUAL IN COMPLIANCE WITH DSA IR 23-9.10. SEE SPECIFICATIONS AND NOTES ON SHEET SS.03.2
 - PARALLEL PARALLEL STRAND LUMBER (PSL), LAMINATED STRAND LUMBER (LSL), AND RIM BOARD
 - BY WEYERHAEUSER, ICC REPORT ESR 1387 (DATED FEBRUARY 2019).
 - LSL: E = 1,600,000 PSI; FT = 1700 PSI; FC = 2150 PSI; FB = 2400 PSI; FV = 400 PSI
 - PSL: DOUGLAS FIR (DF) E = 2,000,000 PSI; FT = 2025 PSI; FC = 2900 PSI; FB = 2900 PSI; FV = 290 PSI
 - LAMINATED VENEER LUMBER (LVL)
 - BY REDBUILT LLC, ICC REPORT ESR 2993 (DATED FEBRUARY 2019); GRADE 2.6E DFL/FPW UNLESS OTHERWISE NOTED.
 - FASTENERS
 - BOLTS - BOLTS IN WOOD CONNECTIONS SHALL BE ASTM A307, STANDARD CUT THREADS, FULL DIAMETER BOLTS.
 - NAILS - COMMON WIRE GAGE UON. NAILING SHALL CONFORM TO CBC TABLE 2304.10.1, REPRODUCED ON SHEET SS.01.
 - NAILS, BOLTS, AND SCREWS INTO PRESERVATIVE TREATED AND FIRE RETARDANT TREATED WOOD SHALL BE HOT-DIPPED ZINC-COATED STEEL WITH COATING WEIGHTS PER ASTM A153. BOLTS SHALL BE MECHANICALLY DEPOSITED ZINC-COATED STEEL WITH COATING WEIGHTS PER ASTM B695, CLASS 55 MINIMUM.
 - FRAMING HARDWARE
 - AS MANUFACTURED BY SIMPSON STRONG TIE CO. SEE SPECIFICATIONS FOR COMPLETE INFORMATION.

PART V - STRUCTURAL STEEL

- MATERIAL
 - HOT ROLLED STRUCTURAL MEMBERS: ALL HOT ROLLED STEEL PLATES, SHAPES, SHEET PILING, AND BARS SHALL BE NEW STEEL CONFORMING TO ASTM SPECIFICATION A6.
 - ASTM SPECIFICATION AND GRADE: CLEARLY MARK THE GRADE OF STEEL ON EACH PIECE, WITH A DISTINGUISHING MARK VISIBLE FROM FLOOR SURFACES. FOR THE PURPOSE OF FIELD INSPECTION OF PROPER GRADE OF STEEL, UNLESS NOTED OTHERWISE ON THE DRAWINGS, STRUCTURAL STEEL SHALL BE AS FOLLOWS:
 - WF- AND WT-SHAPES: ASTM A 992
 - M- AND S-SHAPES: ASTM A 992
 - C-SHAPES: ASTM A 36
 - L-SHAPES: ASTM A 36
 - ROUND HSS: ASTM A 500, GRADE B OR C
 - RECTANGULAR HSS: ASTM A 500, GRADE B OR C
 - STEEL PIPES: ASTM A 53, TYPE E OR S, GRADE B
 - BASE PLATES: ASTM A 572, GRADE 50
 - CONTINUITY PLATES: ASTM A 572, GRADE 50
 - DOUBLER PLATES: ASTM A 572, GRADE 50
 - GUSSET PLATES: ASTM A 572, GRADE 50
 - ALL OTHER PLATES: ASTM A 36
 - STRUCTURAL BOLTS AND THREADED FASTENERS
 - BOLTS IN STEEL-TO-STEEL CONNECTIONS SHALL CONFORM TO ASTM A325 TYPE 1, UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
 - BOLTS IN STEEL-TO-WOOD CONNECTIONS SHALL CONFORM TO ASTM A307 MACHINE BOLTS.
 - THREADED ROD STOCK: THREADED RODS SHALL CONFORM TO ASTM A 36.
 - WELDING
 - UNLESS NOTED OTHERWISE, ELECTRODES FOR WELDING SHALL CONFORM TO E70XX (SMAW), E7XX-E8XX (SAW), E870S-X (GMAW), OR E8XT-X (FCAW).
 - ANCHOR RODS
 - UNLESS INDICATED OTHERWISE ON THE DRAWINGS, ANCHOR RODS SHALL CONFORM TO ASTM F 1554 GRADE 36 (WITH SUPPLEMENTARY REQUIREMENT S1) AND THE SIZE SHALL BE 3/4" DIAMETER AND SHALL EMBED INTO THE CONCRETE FOUNDATION A DISTANCE OF 1'-6" WITH A HEAVY HEX NUT AT THE EMBEDDED END. STRIKE BOLT THREADS AT THE EMBEDDED END AT TWO PLACES BELOW THE NUT.
 - GROUT
 - GROUT BELOW STRUCTURAL STEEL BASE PLATES SHALL BE NON-METALLIC, NON-SHRINK GROUT WITH A MINIMUM STRENGTH OF 8,000 PSI.
- CONCRETE MASONRY
 - REINFORCED CONCRETE MASONRY
 - LOCATION: TRASH ENCLOSURE WALLS
 - CMU ASSEMBLY, Fm = 1900 PSI
 - CMU BLOCKS: ASTM C90, LIGHTWEIGHT, OPEN END BLOCKS, UNIT STRENGTH Fc = 1,900 PSI
 - MORTAR: ASTM C270, GRADE S
 - GROUT: ASTM C476, Fc = 2,000 PSI
 - REINFORCING STEEL: ASTM A615, GRADE 60.
 - ALL MASONRY WALLS SHALL BE REINFORCED AND FULLY GROUTED SOLID.
 - STABILITY AND BRACING OF MASONRY WALLS DURING CONSTRUCTION: ALL MASONRY WALLS HAVE BEEN DESIGNED TO RESIST THE REQUIRED CODE VERTICAL AND LATERAL FORCES APPLIED TO THEM IN THE FINAL CONSTRUCTION ASSUMING FULL BRACING OF TOP, BOTTOM AND/OR SIDES OF WALLS AS SHOWN IN THE DRAWINGS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROPERLY BRACE ALL MASONRY WALLS AT ALL STAGES DURING CONSTRUCTION TO RESIST ERECTION LOADS AND LATERAL LOADS THAT COULD OCCUR PRIOR TO COMPLETION OF CONSTRUCTION.

PART VI - CONCRETE MASONRY

- REINFORCED CONCRETE MASONRY
 - LOCATION: TRASH ENCLOSURE WALLS
 - CMU ASSEMBLY, Fm = 1900 PSI
 - CMU BLOCKS: ASTM C90, LIGHTWEIGHT, OPEN END BLOCKS, UNIT STRENGTH Fc = 1,900 PSI
 - MORTAR: ASTM C270, GRADE S
 - GROUT: ASTM C476, Fc = 2,000 PSI
 - REINFORCING STEEL: ASTM A615, GRADE 60.
 - ALL MASONRY WALLS SHALL BE REINFORCED AND FULLY GROUTED SOLID.
 - STABILITY AND BRACING OF MASONRY WALLS DURING CONSTRUCTION: ALL MASONRY WALLS HAVE BEEN DESIGNED TO RESIST THE REQUIRED CODE VERTICAL AND LATERAL FORCES APPLIED TO THEM IN THE FINAL CONSTRUCTION ASSUMING FULL BRACING OF TOP, BOTTOM AND/OR SIDES OF WALLS AS SHOWN IN THE DRAWINGS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROPERLY BRACE ALL MASONRY WALLS AT ALL STAGES DURING CONSTRUCTION TO RESIST ERECTION LOADS AND LATERAL LOADS THAT COULD OCCUR PRIOR TO COMPLETION OF CONSTRUCTION.

PART VII - COLD-FORMED METAL FRAMING

- MATERIALS
 - STUD AND TRACK PROFILES SHALL BE STANDARD SECTIONS USED BY MEMBERS OF THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA). SSMA MEMBER DESIGNATIONS AS SHOWN ON THE FOLLOWING EXAMPLE:

| |
|---|
| 600 S 162-43 REPRESENTS A 6.00" DEEP, STUD SECTION, 1.625" WIDE FLANGE, 0.043" (43 MILS) MINIMUM STEEL THICKNESS. |
| NOTES: |
| S = STUD SECTION |
| T = TRACK SECTION |
| P = CHANNEL SECTION |
| F = FURRING CHANNEL |
 - UNLESS NOTED OTHERWISE ON THE DRAWINGS, MEMBERS SHALL HAVE THE FOLLOWING YIELD STRENGTHS:
 - STUDS: 33, 43 MIL THICKNESS: FY = 33 KSI
 - STUDS: 54, 68, 97 MIL THICKNESS: FY = 50 KSI
 - TRACKS: 33, 43, 54, 68, 97 MIL: FY = 33 KSI
 - U-CHANNELS, FURRING CHANNELS: FY = 33 KSI
 - ALL COLD-FORMED STEEL FRAMING MATERIALS SHALL HAVE A MINIMUM G60 GALVANIZED COATING.
 - CONNECTIONS
 - SCREWS: UNLESS NOTED OTHERWISE SCREWS SHALL BE AS FOLLOWS:
 - SHEET STEEL TO SHEET STEEL: #10-16, 5/8 INCH LONG SELF DRILLING SCREWS.
 - SHEET STEEL TO STRUCTURAL STEEL: #12-24, 1-1/2 INCH LONG SELF DRILLING SCREWS WITH NO 3 TYP-STYLE.
 - POWDER ACTUATED FASTENERS: UNLESS NOTED OTHERWISE, PAF SHALL BE AS FOLLOWS:
 - SHEET STEEL TO CONCRETE: 0.145" DIAMETER, 1-1/4" LONG, SMOOTH SHANK
 - SHEET STEEL TO POST-TENSIONED CONCRETE: 0.145" DIAMETER, 3/4" LONG, SMOOTH SHANK
 - SHEET STEEL TO STRUCTURAL STEEL: 0.145" DIAMETER, 3/4" LONG, KNURLED SHANK
 - WELDING:
 - WELDING PROCEDURES FOR SHEET STEEL TO BE IN ACCORDANCE WITH AWS D1.3. WELDERS SHALL BE CERTIFIED FOR SHEET STEEL. IN ALL POSITIONS REQUIRED PER AWS D1.3
 - SUGGESTED WELD METAL AND PROCESS FOR SHOP WELDING ARE: 60KSI WELD METAL STRENGTH (MINIMUM) - MIG
 - SUGGESTED METHODS FOR FIELD WELDING: 1/8 INCH E60XX (MINIMUM) ELECTRODE - SMAW
 - MINIMUM WELD THROAT THICKNESS (T) MUST MATCH OR EXCEED THE BASE METAL THICKNESS OF THE THINNEST CONNECTED STEEL SHEET UNLESS NOTED OTHERWISE.
 - AFTER WELDING ALL FLUX SHALL BE REMOVED, AND A ZINC-RICH PAINT, WITH A DRY FILM CONTAINING 94% ZINC DUST BY WEIGHT, SHALL BE APPLIED TO THE WELD AREA TO RESTORE CORROSION RESISTANCE.

PART VIII - STRUCTURAL OBSERVATION

- A PRE-CONSTRUCTION MEETING INCLUDING THE ENGINEER RESPONSIBLE FOR THE STRUCTURAL OBSERVATION, THE STRUCTURAL OBSERVER, THE CONTRACTOR, AFFECTED SUBCONTRACTORS, AND INSPECTOR OF RECORD (IOR) SHALL BE HELD TO REVIEW THE APPROVED STRUCTURAL PLANS AND INSPECTION SCOPE AND SCHEDULE. THE DISTRICT'S REPRESENTATIVE SHALL COORDINATE AND CALL THE MEETING, AND THE STRUCTURAL OBSERVER SHALL PRESIDE OVER THE MEETING.
- THE PURPOSE OF THE PRECONSTRUCTION MEETING SHALL BE TO IDENTIFY THE MAJOR STRUCTURAL ELEMENTS AND CONNECTIONS THAT AFFECT THE VERTICAL AND LATERAL LOAD SYSTEMS OF THE STRUCTURE AND TO REVIEW SCHEDULING OF THE REQUIRED OBSERVATIONS. A RECORD OF THE MEETING SHALL BE INCLUDED IN THE FIRST OBSERVATION REPORT SUBMITTED TO THE DIVISION OF THE STATE ARCHITECT (DSA).
- OBSERVED DEFICIENCIES SHALL BE REPORTED IN WRITING TO THE DISTRICT'S REPRESENTATIVE, INSPECTOR OF RECORD, CONTRACTOR AND DSA FIELD ENGINEER.
- UPON THE FORM PRESCRIBED BY THE DIVISION OF THE STATE ARCHITECT (DSA), THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE DSA FIELD ENGINEER A WRITTEN STATEMENT AT EACH SIGNIFICANT CONSTRUCTION STAGE STATING THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFYING ANY REPORTED DEFICIENCIES, WHICH, TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED.
- A FINAL REPORT BY THE STRUCTURAL OBSERVER, WHICH STATES THAT ALL OBSERVED DEFICIENCIES HAVE BEEN RESOLVED, IS REQUIRED BEFORE ACCEPTANCE OF THE WORK BY THE DIVISION OF THE STATE ARCHITECT (DSA).
- AT THE CONCLUSION OF THE WORK INCLUDED IN THE PERMIT, THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE DIVISION OF THE STATE ARCHITECT (DSA) A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND SHALL IDENTIFY ANY REPORTED DEFICIENCIES THAT, TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED.
- THE STRUCTURAL OBSERVER SHALL PERFORM STRUCTURAL OBSERVATION IN ACCORDANCE WITH THE STRUCTURAL OBSERVATION REPORT FORM AND THE APPROVED PLANS. UPON COMPLETION OF STRUCTURAL OBSERVATION, THE STRUCTURAL OBSERVER OF RECORD SHALL COMPLETE THE OBSERVATION FORM.
- STRUCTURAL OBSERVATION IS THE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM, FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS, AT SIGNIFICANT CONSTRUCTION STAGES AND AT COMPLETION OF THE STRUCTURAL SYSTEM, WHICH INCLUDES THE LATERAL AND GRAVITY LOAD PATHS.
- STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR THE INSPECTION REQUIRED BY THE BUILDING CODE.

PART IX - SPECIAL INSPECTIONS

- THE DISTRICT'S TESTING LABORATORY SHALL PROVIDE SPECIAL INSPECTIONS SERVICES IN ACCORDANCE WITH CBC 170A BY A SPECIAL INSPECTOR CERTIFIED BY THE DIVISION OF THE STATE ARCHITECT (DSA) FOR SPECIFIC REQUIREMENTS, REFER TO THE SPECIFICATIONS.
- SPECIAL INSPECTION REPORTS AND A FINAL REPORT IN ACCORDANCE WITH THE CALIFORNIA BUILDING CODE SHALL BE SUBMITTED TO DISTRICT'S REPRESENTATIVE, INSPECTOR OF RECORD, CONTRACTOR AND DSA FIELD ENGINEER.
 - STEEL CONSTRUCTION:
 - SHOP AND FIELD WELDING
 - HIGH-STRENGTH BOLTING
 - INSPECTION OF STRUCTURAL STEEL, BOLTING, WELDING MATERIALS
 - CONCRETE CONSTRUCTION:
 - POST-INSTALLED CONCRETE ANCHORS
 - CONCRETE PLACEMENT
 - REINFORCING STEEL PLACEMENT
 - WELDING OF REINFORCING STEEL
 - SOILS:
 - PREPARED EARTH FILL
 - WOOD CONSTRUCTION:
 - WOOD ROOF DIAPHRAGMS - SHEATHING FASTENERS AND STRAPS
 - WOOD SHEAR WALLS - SHEATHING FASTENERS, STRAPS, AND TIE-DOWN ANCHORS
 - CONCRETE MASONRY:
 - MASONRY UNIT PLACEMENT
 - REINFORCING STEEL PLACEMENT
 - GROUT PLACEMENT
- STATEMENT OF SPECIAL INSPECTIONS
 - SPECIAL INSPECTION IS REQUIRED FOR THE ITEMS LISTED ABOVE. REFER TO SPECIFICATION FOR TYPE AND EXTENT OF EACH SPECIAL INSPECTION AND EACH TEST. THE SPECIFICATION ALSO INDICATES WHETHER CONTINUOUS OR PERIODIC INSPECTION IS REQUIRED FOR THE ITEMS LISTED ABOVE ADDITIONAL INFORMATION.

PART X - SUBMITTALS

- SUBMITTAL LIST AND SCHEDULE
 - THE GENERAL CONTRACTOR SHALL PREPARE A DETAILED LIST AND SCHEDULE OF ALL SUBMITTAL ITEMS TO BE SENT TO THE STRUCTURAL ENGINEER PRIOR TO THE START OF CONSTRUCTION. THIS LIST SHALL BE UPDATED AND REVISED AS KEPT CURRENT AS THE JOB PROGRESSES. THE SUBMITTAL LIST SHALL BE ORGANIZED AS SHOWN BELOW:
 - SHOP DRAWINGS
 - DESIGN CALCULATIONS
 - PRODUCT DATA, CERTIFICATES, REPORTS, AND OTHER LITERATURE
 - SUBMITTALS TO BE PROVIDED TO STRUCTURAL ENGINEER
 - STRUCTURAL SUBMITTALS: IN ADDITION TO THE SUBMITTALS REQUIRED BY THE STRUCTURAL SPECIFICATIONS, THE FOLLOWING SUBMITTALS SHALL BE PROVIDED:
 - LAYOUT OF EMBEDDED ITEMS (PLATES, ANGLES, BOLTS, ETC.) OR ITEMS ATTACHED TO THE STRUCTURAL FRAME FOR BUILDING CLADDING ATTACHMENT OR FOR ATTACHMENT OF OTHER ITEMS.
 - DEFERRED SUBMITTALS:
 - THE FOLLOWING ITEMS ARE CONSIDERED DEFERRED SUBMITTALS BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE:
 - EXTERIOR WINDOW WALL SYSTEM (S&S, REC)
 - (S&S) - ITEMS MARKED THIS SHALL HAVE THE SHOP DRAWINGS AND DELEGATED DESIGN SUBMITTALS (INCLUDING CALCULATIONS) SEALED PER THE PROJECT SPECIFICATIONS BY AN ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.
 - (REC) - ITEMS MARKED THIS SHALL BE SUBMITTED TO ENGINEER FOR RECORD ONLY AND WILL NOT HAVE THE ENGINEER'S SHOP DRAWING STAMP AFFIXED.
 - DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE REGISTERED DESIGN PROFESSIONAL AND THE DIVISION OF THE STATE ARCHITECT (DSA).
 - DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY DSA.
 - SUBMITTALS WITH IMPACT TO STRUCTURE:
 - MECHANICAL EQUIPMENT WEIGHTS
 - SUBMITTAL REQUIREMENTS:
 - ALL SHOP DRAWINGS MUST BE REVIEWED AND ELECTRONICALLY STAMPED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTAL.
 - CONTRACTOR SHALL PROVIDE THE SUBMITTAL IN ELECTRONIC PORTABLE DOCUMENT FORMAT (PDF) PER THE SPECIFICATIONS.
 - THE OMISSION FROM THE SHOP DRAWINGS OF ANY MATERIALS REQUIRED BY THE CONTRACT DOCUMENTS TO BE FURNISHED SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF FURNISHING AND INSTALLING SUCH MATERIALS, REGARDLESS OF WHETHER THE SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED.
 - REPRODUCTION
 - THE USE OF ELECTRONIC FILES OR REPRODUCTIONS OF THESE CONTRACT DOCUMENTS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFYING THEIR ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT, AND OBLIGATES THEMSELVES TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREON.

PART XI - MISCELLANEOUS

- CONTRACT DOCUMENTS
 - IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO OBTAIN ALL CONTRACT DOCUMENTS AND LATEST ADDENDA AND TO SUBMIT SUCH DOCUMENTS TO ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS, FABRICATION OF ANY STRUCTURAL MEMBERS, AND ERECTION IN THE FIELD.
 - THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, AND, EXCEPT WHERE SPECIFICALLY SHOWN, DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, AND SEQUENCE.
 - OPENINGS THROUGH FLOORS, ROOFS, AND WALLS FOR DUCTS, PIPING, AND/OR CONDUIT SHALL BE COORDINATED BY THE CONTRACTOR. CONTRACTOR SHALL VERIFY SIZES AND LOCATIONS OF HOLES AND OPENINGS WITH THE MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS AND THE RESPECTIVE SUBCONTRACTORS.
 - REFER TO DRAWINGS OTHER THAN STRUCTURAL FOR COMPLETE INFORMATION INCLUDING TYPES OF FLOOR SLAB FINISHES, THEIR LOCATIONS, FLOOR SLAB DEPRESSIONS AND CURBS, OPENINGS IN STRUCTURAL WALLS, ROOFS AND FLOORS REQUIRED BY ARCHITECTURAL AND MEP FEATURES, STAIRS, RAMPS, ETC.
 - WHERE MEMBER LOCATIONS ARE NOT SPECIFICALLY DIMENSIONED, MEMBERS ARE EITHER LOCATED ON COLUMNS LINES OR ARE EQUALLY SPACED BETWEEN LOCATED MEMBERS.
 - IF CERTAIN FEATURES ARE NOT FULLY SHOWN OR SPECIFIED ON THE DRAWINGS OR IN THE SPECIFICATIONS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS SHOWN OR SPECIFIED IN SIMILAR CONDITIONS.
- DRAWING CONFLICTS
 - THE GENERAL CONTRACTOR SHALL COMPARE THE ARCHITECTURAL AND STRUCTURAL DRAWINGS AND REPORT ANY DISCREPANCY BETWEEN EACH SET OF DRAWINGS AND WITHIN EACH SET OF DRAWINGS TO THE ARCHITECT AND ENGINEER PRIOR TO THE FABRICATION AND INSTALLATION OF ANY STRUCTURAL MEMBERS.
- CONFLICTS IN STRUCTURAL REQUIREMENTS
 - WHERE CONFLICT EXISTS AMONG THE VARIOUS PARTS OF THE STRUCTURAL CONTRACT DOCUMENTS, STRUCTURAL DRAWINGS, GENERAL NOTES, AND SPECIFICATIONS, THE STRICTEST REQUIREMENTS, AS INDICATED BY THE ENGINEER, SHALL GOVERN.
- EXISTING CONDITIONS
 - THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS OF THE EXISTING BUILDING AT THE JOB SITE AND REPORT ANY DISCREPANCIES FROM ASSUMED CONDITIONS SHOWN ON THE DRAWINGS TO THE ARCHITECT AND ENGINEER PRIOR TO THE FABRICATION AND ERECTION OF ANY MEMBERS.
 - WORK SHOWN ON THE DRAWINGS IS NEW, UNLESS NOTED AS EXISTING.
 - EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS WAS OBTAINED FROM EXISTING CONSTRUCTION DOCUMENTS AND LIMITED SITE OBSERVATION. THESE DRAWINGS OF EXISTING CONSTRUCTION ARE AVAILABLE FOR CONTRACTOR USE. HOWEVER, THE AVAILABLE DRAWINGS OF EXISTING CONSTRUCTION ARE NOT NECESSARILY COMPLETE. THE CONTRACTOR SHALL FIELD VERIFY ALL PERTINENT INFORMATION.
 - DEMOLITION, CUTTING, DRILLING, ETC. OF EXISTING WORK SHALL BE PERFORMED WITH GREAT CARE SO AS NOT TO JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE EXISTING BUILDING. THE ARCHITECT, ARCHITECTURAL OR MEP MEMBERS NOT DESIGNATED FOR REMOVAL INTERFERE WITH THE NEW WORK. THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY AND APPROVAL OBTAINED PRIOR TO REMOVAL OF THOSE MEMBERS.
 - THE CONTRACTOR SHALL SAFELY SHORE EXISTING CONSTRUCTION WHEREVER EXISTING SUPPORT CONSTRUCTION IS REMOVED TO ALLOW THE INSTALLATION OF NEW WORK. ALL SHORING METHODS AND SEQUENCING OF DEMOLITION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND HIS ENGINEER.
 - THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION AND TAKE CARE TO PROTECT EXISTING UTILITIES THAT ARE TO REMAIN IN SERVICE.
 - THE CONTRACTOR SHALL REPAIR ALL DAMAGE CAUSED DURING CONSTRUCTION TO EXISTING UTILITIES AND WORKMANSHIP TO RESTORE CONDITIONS TO LEVELS ACCEPTABLE TO THE ARCHITECT.
- ADJACENT BUILDINGS AND PROPERTY
 - THE GENERAL CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION METHODS USED WILL NOT CAUSE DAMAGE TO THE ADJACENT BUILDINGS AND PROPERTY. THIS SHALL INCLUDE ALL FOUNDATION INSTALLATION.
 - THE GENERAL CONTRACTOR IS ADVISED TO PERFORM ALL PHOTOGRAPHIC SURVEYS AND OTHER DOCUMENTATION OF THE ADJACENT BUILDINGS BEFORE THE START OF AND DURING CONSTRUCTION.
- RESPONS

PART XII - DRAWING INTERPRETATION

- A. DRAWING VIEWS LABELED AS "TYPICAL"
- PARTIAL PLANS, ELEVATIONS, SECTIONS, DETAILS, OR SCHEDULES LABELED WITH "TYPICAL" AT THE BEGINNING OF THEIR TITLE SHALL APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY SHOWN. THE APPLICABILITY OF THE CONTENT OF THESE VIEWS TO LOCATIONS ON THE PLAN CAN BE DETERMINED FROM THE TITLE OF THE VIEWS. SUCH VIEWS SHALL APPLY WHETHER OR NOT THEY ARE KEYED IN AT EACH LOCATION. DECISIONS REGARDING APPLICABILITY OF THESE "TYPICAL" VIEWS SHALL BE DETERMINED BY THE STRUCTURAL ENGINEER.
- B. STRUCTURAL ABBREVIATIONS, SYMBOLS, AND NOTATIONS
- REFER TO SHEET 50.03 FOR ABBREVIATIONS, SYMBOLS, AND NOTATIONS USED ON THE STRUCTURAL DRAWINGS.

PART XIII - POST INSTALLED ANCHORS IN CONCRETE

- A. GENERAL
- INSTALL ANCHORS IN ACCORDANCE WITH THE ANCHOR'S ICC-ES REPORT AND THE MANUFACTURER'S RECOMMENDATIONS. IN CASE OF CONFLICT, THE REQUIREMENTS OF THE ICC-ES REPORT SHALL GOVERN.
 - TAKE NECESSARY STEPS TO AVOID CUTTING OR DAMAGING EXISTING REINFORCING BARS.
 - SPECIAL INSPECTION, AS DEFINED BY THE 2016 CBC, IS REQUIRED FOR ALL POST-INSTALLED CONCRETE ANCHORS.
 - FIELD TESTING OF POST-INSTALLED ANCHORS IS REQUIRED UNLESS NOTED OTHERWISE.
- B. EXPANSION ANCHORS
- EXPANSION ANCHORS 3/8" DIA. THROUGH 3/4" DIA. SHALL BE HILTI KWIK BOLT TZ, CARBON STEEL, ICC-ES REPORT ESR-1917 DATED 05/2017.
 - EXPANSION ANCHORS 1/4" DIA. SHALL BE HILTI KWIK BOLT 3, ICC-ES REPORT ESR-2302 DATED 12/2017, USED IN NON-SEISMIC APPLICATIONS ONLY.
 - THE USE OF CARBON STEEL ANCHORS IS LIMITED TO DRY, INTERIOR LOCATIONS. AT EXTERIOR APPLICATIONS AND OTHER WET CONDITIONS OF USE, EXPANSION ANCHORS SHALL BE STAINLESS STEEL ANCHORS.
 - FOLLOW THE MANUFACTURER'S INSTRUCTIONS TO DETERMINE PROPER ANCHOR HOLE DIAMETER AND HOLE DEPTH, SPACING AND EDGE DISTANCES. ANCHOR HOLE DEPTH FOR INSTALLATION IS GREATER THAN THE EFFECTIVE EMBEDMENT DEPTH.
 - EXPANSION ANCHOR MINIMUM EMBEDMENT VALUES AND FIELD TEST VALUES FOR ANCHORS INSTALLED IN NORMAL WEIGHT CONCRETE SHALL BE THE FOLLOWING, UNLESS NOTED OTHERWISE IN THE DRAWINGS:

| ANCHOR DIAMETER (in) | MIN. EFFECTIVE EMBEDMENT (in) | MIN. SLAB OR MEMBER THICKNESS (in) | MIN. ANCHOR SPACING (in) | TENSION TEST VALUE FOR 3000 PSI CONCRETE | TORQUE TEST VALUE (ft-lbs) |
|----------------------|-------------------------------|------------------------------------|--------------------------|--|----------------------------|
| 1/4 | 1.5 | 4.0 | 4.5 | 800 | 4 |
| 3/8 | 2.0 | 4.5 | 6.0 | 1100 | 25 |
| 1/2 | 3.25 | 6.0 | 9.75 | 2000 | 40 |
| 5/8 | 4 | 7.25 | 12.0 | 2300 | 60 |
| 3/4 | 4.75 | 8.0 | 14.25 | 3700 | 110 |

- FIELD TESTING OF ANCHORS SHALL BE PERFORMED IN THE PRESENCE OF THE PROJECT INSPECTOR AND BE IN ACCORDANCE WITH CBC 1910A.5.
 - TESTING MAY BE PERFORMED AS A TENSION TEST OR TORQUE TEST. IF THE MANUFACTURER'S RECOMMENDED INSTALLATION TORQUE IS LESS THAN THE TEST TORQUE NOTED IN THE TABLE, THE INSTALLATION TORQUE SHALL BE USED IN LIEU OF THE TABULATED TEST VALUE.
 - TEST 50% OF ANCHORS IN EACH DIAMETER GROUP IN NON-STRUCTURAL APPLICATIONS, INCLUDING BUT NOT LIMITED TO EQUIPMENT ANCHORAGE, CONDUIT AND PIPING SUPPORT, CEILING WIRES, ETC., EXCEPT WHERE NOTED OTHERWISE.
 - TEST 10% OF ANCHORS IN EACH DIAMETER GROUP WHERE USED IN SILL PLATE BOLTING APPLICATIONS.
 - IF ANY ANCHOR FAILS TESTING, TEST ALL ANCHORS OF THE SAME TYPE NOT PREVIOUSLY TESTED. UNTIL 20 CONSECUTIVE ANCHORS PASS, THEN RESUME THE INITIAL TEST FREQUENCY. IN NONSTRUCTURAL APPLICATIONS, THE 20 ANCHORS SHALL BE ONLY THOSE INSTALLED BY THE SAME TRADE.
 - TEST ACCEPTANCE CRITERIA - ACCEPTANCE CRITERIA FOR EXPANSION ANCHORS SHALL BE BASED ON THE ICC-ESR OR MANUFACTURER'S WRITTEN INSTRUCTION, ACCEPTABLE TO THE ENFORCEMENT AGENCY. FIELD TESTS SHALL SATISFY THE FOLLOWING MINIMUM REQUIREMENTS:
 - TENSION TESTS - ANCHORS TESTED WITH A HYDRAULIC JACK OR SPRING LOADED DEVICE SHALL MAINTAIN THE TEST LOAD FOR A MINIMUM OF 15 SECONDS AND SHALL EXHIBIT NO DISCRETE MOVEMENT DURING THE TENSION TEST, SUCH AS EVIDENCED BY LOOSENING OF THE WASHER UNDER THE NUT. REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED SO LONG AS THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY THE FIXTURE.
 - TORQUE TESTS - TEST WITH A CALIBRATED TORQUE WRENCH; THE SPECIFIED TEST TORQUE MUST BE REACHED WITHIN ONE-HALF TURN OF THE NUT.
 - TESTING PROCEDURES SHALL BE AS REQUIRED BY THE ICC-ESR. MANUFACTURER'S RECOMMENDATION FOR TESTING MAY BE APPROVED BY THE ENFORCEMENT AGENCY WHEN ICC-ESR DOES NOT PROVIDE A TESTING PROCEDURE.
 - TEST EQUIPMENT, INCLUDING TORQUE WRENCHES, SHALL BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED PROCEDURES.
- C. EPOXY ANCHORS
- EPOXY FOR ANCHORING REBAR AND THREADED ROD TO CONCRETE SHALL BE SIMPSON SET-3G EPOXY, ICC-ESR #4057, DATED 04/2018.
 - COMPLY WITH MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS FOR THE INSTALLATION OF EPOXY ANCHORED REBAR. PROVIDE HOLES WITH DIAMETER AND DEPTH AS SPECIFIED BY THE MANUFACTURER UNLESS NOTED OTHERWISE ON THE DRAWINGS.
 - SPECIAL INSPECTION OF EPOXY REBAR DOWELS IS REQUIRED.

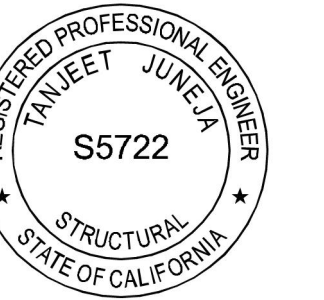
PART XIV - STEEL DECK

- A. STEEL ROOF DECK - TRASH ENCLOSURE
- DECK MATERIAL: ASTM A1008 OR A1039, GALVANIZED, PER ASTM A653, G60; GRADE 50, BY VERCO DECKING (UES ER-217) OR APPROVED EQUAL.
 - DECK PROPERTIES:
 - HSB-36, 18 GAGE, I = 0.302 IN⁴; +S = 0.322 IN⁴; -S = 0.335 IN⁴.

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PROJECT TITLE

**CONTRA COSTA
CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION &
RENOVATION**

1690 Watermill Rd.
San Ramon, CA 94582

RECORD SET:

THESE DRAWINGS HAVE BEEN PREPARED FROM ADDENDUMS, CCD'S, ASIS AND SELECT RFIS OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM. ONLY A SELECT FEW AS-BUILTS WERE SUBMITTED.

ISSUE TITLE

**INCREMENT 2 -
AS-BUILT - FINAL**

ISSUE DATE 08/23/2023

NOLL & TAM JOB NUMBER 21630

REVISIONS

| DATE | DESCRIPTION |
|------|-------------|
| TBD | TBD |

TBD TBD

SHEET TITLE

**STRUCTURAL
GENERAL NOTES**

SHEET NUMBER

S0.02.2

STRUCTURAL SYMBOLS AND NOTATIONS

MATERIAL IDENTIFICATION SYMBOLS

THE FOLLOWING MATERIAL IDENTIFICATION SYMBOLS MAY BE USED IN THE SECTIONS AND DETAILS:

| | | | | | | |
|----------|------------------------|---------------------|---------------------|-----------------------|--------|-------|
| | | | | | | |
| ALUMINUM | CAST-IN-PLACE CONCRETE | EARTH (UNDISTURBED) | EARTH (UNDISTURBED) | EXISTING CONSTRUCTION | GRAVEL | GROUT |
| | | | | | | |
| MASONRY | POLYSTYRENE | RIGID INSULATION | ROCK | STEEL | GLULAM | WOOD |

THE FOLLOWING MATERIAL IDENTIFICATION SYMBOLS MAY BE USED IN THE PLANS:

| | | | | | | |
|--------------|-----------------|---------------|--------------------------|------------------------------|-------------|---------|
| | | | | | | |
| STEEL COLUMN | CONCRETE COLUMN | CONCRETE WALL | LOADBEARING MASONRY WALL | NON-LOADBEARING MASONRY WALL | WOOD COLUMN | GRATING |

EXISTING

BOUNDARY OF EXISTING CONSTRUCTION

BOUNDARY OF EXISTING CONSTRUCTION TO BE DEMOLISHED

BOUNDARY OF FUTURE EXPANSION

BOUNDARY OF CONCRETE TOPPING SLAB POURED ON SUBSTRUCTURE

PLAN SYMBOLS

THE FOLLOWING SYMBOLS MAY BE USED THROUGHOUT THE PLANS:

SLOPE TRANSITION INDICATOR SYMBOL

SLOPE EDGE

SLOPE DOWN

BUMP SLOPE INDICATOR SYMBOL

HORIZONTAL DIMENSION

VERTICAL DIMENSION

SLOPE PITCH INDICATOR SYMBOL

SIZE OF STEP (IF PROVIDED)

STEP INDICATOR SYMBOL

STEP TO SLOPE INDICATOR SYMBOL

RISE INDICATOR SYMBOL

PROJECT NORTH ARROW SYMBOL

BORING LOCATION SYMBOL

KEYNOTE INDICATOR SYMBOL

SLAB OR DECK TYPE (IF PROVIDED)

ONE-WAY SLAB OR DECK SPAN INDICATOR SYMBOL

SLAB OR DECK TYPE (IF PROVIDED)

TWO-WAY SLAB SPAN INDICATOR SYMBOL

SMALL OPENINGS IN STRUCTURAL SLAB OR DECK

LARGE OPENING IN STRUCTURAL SLAB OR DECK

STRUCTURAL ELEMENTS TAGS

THE FOLLOWING STRUCTURAL ELEMENT TAGS, USED IN CONJUNCTION WITH SCHEDULES, MAY APPEAR ON THE DRAWINGS:

Bxx DENOTES SLAB BOTTOM REINFORCEMENT TYPE "xx"

Bpx DENOTES CONCRETE BEAM TYPE "xx"

Bpx DENOTES BASE PLATE TYPE "xx"

Cxx DENOTES COLUMN TYPE "xx"

Cfx DENOTES CONTINUOUS FOOTING TYPE "xx"

DPxx DENOTES DRILLED PIER TYPE "xx"

EPxx DENOTES EMBEDDED PLATE TYPE "xx"

Fxx DENOTES SPREAD FOOTING TYPE "xx"

FPxx DENOTES FRAMING PENETRATION TYPE "xx"

GBxx DENOTES GRADE BEAM TYPE "xx"

MBxx DENOTES CMU WALL TYPE "xx"

Pxx DENOTES PIER TYPE "xx"

PCxx DENOTES PILE OR PIER CAP TYPE "xx"

Sxx DENOTES ONE-WAY SLAB TYPE "xx"

SRxx DENOTES HEADED SHEAR STUD REINFORCEMENT TYPE "xx"

Sfx DENOTES STRIP FOOTING TYPE "xx"

Txx DENOTES SLAB TOP REINFORCEMENT TYPE "xx"

WFxx DENOTES WALL FOOTING TYPE "xx"

ABBREVIATIONS

THE FOLLOWING ABBREVIATIONS MAY BE USED IN THE DRAWINGS:

| | | | |
|--------|--|--------|---------------------------------|
| @ | AT | LLH | LONG LEG HORIZONTAL |
| & | AND | LLV | LONG LEG VERTICAL |
| # | NUMBER | LONG | LONG |
| Ø | ROUND, DIAMETER | LSH | LONG SIDE HORIZONTAL |
| ADOL | ADDITIONAL | LSLP | LONG-SLOTTED HOLE PARALLEL |
| AESS | ARCHITECTURAL EXPOSED STRUCTURAL STEEL | LSLT | LONG-SLOTTED HOLE TRANSVERSE |
| AFF | ABOVE FINISHED FLOOR | LSV | LONG SIDE VERTICAL |
| AHU | AIR HANDLING UNIT | LWC | LIGHTWEIGHT CONCRETE |
| ALT | ALTERNATE | M | MOMENT |
| APPROX | APPROXIMATE | MAS | MASONRY |
| AR | ANCHOR ROD | MAX | MAXIMUM |
| ARCH | ARCHITECTURAL | MC | MOMENT CONNECTION |
| BC | BOTTOM OF COLUMN | MECH | MECHANICAL |
| BF | BRACED FRAME | MEZZ | MEZZANINE |
| BLOG | BUILDING | MFR | MANUFACTURER |
| BLK | BLOCK | MM | HORIZONTAL MOMENT |
| BLKG | BLOCKING | MIN | MINIMUM |
| BM | BEAM | MISC | MISCELLANEOUS |
| BO | BOTTOM OF | MTL | METAL |
| BOD | BOTTOM OF DECK | NF | NEAR FACE |
| BOT | BOTTOM | NIC | NOT IN CONTRACT |
| BRDG | BRIDGING | NS | NOT TO SCALE |
| BRG | BEARING | NTS | NORMALWEIGHT CONCRETE ON CENTER |
| BTWN | BETWEEN | OC | OUTSIDE DIAMETER |
| C | CAMBER | OD | OPPOSITE HAND |
| CANTIL | CANTILEVER | OPH | OPPOSITE HAND |
| CFSF | COLD-FORMED STEEL FRAMING | OPNG | OPENING |
| CIP | CAST-IN-PLACE | OPP | OPPOSITE |
| CJP | CONSTRUCTION/CONTROL JOINT | OVS | OVERSIZED HOLE |
| CJP | COMPLETE JOINT PENETRATION | P | AXIAL LOAD |
| CL | CENTERLINE | PAF | POWDER ACTUATED FASTENER |
| CMU | CONCRETE MASONRY UNIT | PAR | PARALLEL |
| CONC | CONCRETE | PC | PREGAST CONCRETE |
| CONN | CONNECTION | PCF | POUNDS PER CUBIC FOOT |
| CONSTR | CONSTRUCTION | PCY | POUNDS PER CUBIC YARD |
| CONT | CONTINUOUS | PERP | PERPENDICULAR |
| COORD | COORDINATE | PL | PLATE |
| COV | COVER | PLF | POUNDS PER LINEAR FOOT |
| CTRS | CENTERS | PJP | PARTIAL JOINT PENETRATION |
| db | BAR DIAMETER | PRELIM | PRELIMINARY |
| DBA | DEFORMED BAR ANCHOR | PROP | PROPERTY |
| DET | DETAIL | PSF | POUNDS PER SQUARE FOOT |
| DIA | DIAMETER | PSI | POUNDS PER SQUARE INCH |
| DIM | DIMENSION | PT | POST-TENSION(ED) |
| DWG | DRAWING | PLY | PLYWOOD |
| EA | EACH | QTY | QUANTITY |
| EF | EACH FACE | R | REACTION |
| EJ | EXPANSION JOINT | RAD | RADIUS |
| EL | ELEVATION | REF | REFERENCE |
| ELEV | ELEVATOR | REIN | REINFORCEMENT |
| EMBED | EMBEDMENT, EMBEDDED | REIN | REINFORCEMENT |
| EN | EDGE NAIL | REMA | REMAINDER |
| ENGR | ENGINEER | REQD | REQUIRED |
| EQ | EQUAL | REV | REVISION |
| EQUIP | EQUIPMENT | RTU | ROOF TOP UNIT |
| EQUIV | EQUIVALENT | SAD | SEE ARCHITECTURAL DRAWINGS |
| EW | EACH WAY | SC | SLIP CRITICAL |
| (E) | EXISTING | SCD | SEE CIVIL DRAWINGS |
| EXP | EXPANSION | SCHED | SCHEDULE(D) |
| EXT | EXTERIOR | SDS | SELF-DRILLING SCREW |
| FAB | FABRICATE | SECT | SECTION |
| f'c | 28 DAY CONCRETE STRENGTH | SED | SEE ELECTRICAL DRAWINGS |
| f'm | 28 DAY MASONRY STRENGTH | SHT | SHEET |
| FD | FLOOR DRAIN | SIM | SIMILAR |
| FDTN | FOUNDATION | SLBB | SHORT LEG BACK TO BACK |
| FF | FAR FACE | SLRS | SEISMIC LOAD RESISTING SYSTEM |
| FIN | FINISH(ED) | SMD | SEE MECHANICAL DRAWINGS |
| FLR | FLOOR | SOG | SLAB-ON-GRADE |
| FS | FAR SIDE | SPA | SPACING |
| FTG | FOOTING | SPEC | SPECIFICATION |
| FUT | FUTURE | SPRT | SUPPORT |
| FV | FIELD VERIFY | SQ | SQUARE |
| Fy | YIELD STRENGTH | SS | STAINLESS STEEL |
| GALV | GALVANIZE(D) | SSLP | SHORT-SLOTTED HOLE PARALLEL |
| GEN | GENERAL | SSLT | SHORT-SLOTTED HOLE TRANSVERSE |
| GLB | GLULAM BEAM | STD | STANDARD |
| GR | GRADE | STIF | STIFFENER |
| H | HORIZONTAL REACTION | STR | STIRRUP |
| HGR | HANGER | STRUCT | STRUCTURE, STRUCTURAL |
| HORIZ | HORIZONTAL | SW | SHEAR WALL |
| HSA | HEADED STUD ANCHOR | SYMM | SYMMETRIC, SYMMETRICAL |
| HSS | HOLLOW STRUCTURAL SECTION | T | TORSION |
| ID | INSIDE DIAMETER | TC | TOP OF COLUMN |
| INFO | INFORMATION | THD | THREADED |
| INT | INTERIOR | TO | TOP OF |
| JST | JOIST | TOC | TOP OF CONCRETE |
| JT | JOINT | TOM | TOP OF MASONRY |
| K | KIPS (1000 LBS) | TOS | TOP OF STEEL, TOP OF SLAB |
| KSF | KIPS PER SQUARE FOOT | TRANS | TRANSVERSE |
| KSI | KIPS PER SQUARE INCH | TYP | TYPICAL |
| LBS | POUNDS | UNO | UNLESS NOTED OTHERWISE |
| Ld | DEVELOPMENT LENGTH | VERT | VERTICAL |
| LLBB | LONG LEG BACK TO BACK | WF | WIDE FLANGE |
| | | WP | WORK POINT |
| | | WS | WATERSTOP |
| | | WT | WEIGHT |
| | | WWR | WELDED WIRE REINFORCEMENT |
| | | XS | EXTRA STRONG |
| | | XXS | DOUBLE EXTRA STRONG |

FOUNDATION ANNOTATION STYLES

THE FOLLOWING STRUCTURAL ANNOTATIONS MAY APPEAR ON THE FOUNDATION PLANS:

F7.0 ← SPREAD, STRIP, OR COMBINED FOOTING MARK

C12 ← COLUMN MARK (IF PROVIDED)

-3'-0" ← TOP OF FOOTING ELEVATION (IF PROVIDED)

WF5.0 ← WALL FOOTING MARK

MW2 ← WALL MARK (IF PROVIDED)

STEP IN FOOTING ← ALL STEPS WILL BE NOTED

CONCRETE ANNOTATION STYLES

THE FOLLOWING STRUCTURAL ANNOTATIONS MAY APPEAR ON THE CONCRETE FRAMING PLANS:

C4 ← COLUMN MARK (IF PROVIDED)

SR8 ← HEADED SHEAR STUD REINFORCEMENT MARK (IF PROVIDED)

BM4 ←1'-0" ← TOP OF CONCRETE BEAM ELEVATION RELATIVE TO TYPICAL TOP OF CONCRETE ELEVATION. A POSITIVE VALUE INDICATES THE CONCRETE BEAM IS ABOVE THE TYPICAL ELEVATION.

4-#4x5'-0" TOP ← REINFORCING STEEL NOTED IN PLAN SHALL BE LOCATED ACCORDING TO PLAN NOTES, TYPICAL VIEWS, AND SCHEDULES. HOOKS ARE INDICATED IN PLAN WHERE REQUIRED FOR NON-SCHEDULED REINFORCING STEEL. WHERE HOOKS ARE SHOWN, LENGTHS PROVIDED DO NOT INCLUDE HOOK.

A SINGLE ARROWED LINE INDICATES THE EXTENT OVER WHICH THE REINFORCING STEEL IS TO BE DISTRIBUTED WITH AN EQUAL SPACING BETWEEN BARS.

REFERENCE LINE OR OBJECT WHERE REINFORCING STOPS

#4x20'-0" BOTTOM BARS @12" ← A DOUBLE ARROWED LINE INDICATES THAT THE REINFORCING STEEL IS TO BE PROVIDED IN EACH DIRECTION UNTIL ONE OF THE FOLLOWING OCCURS:

- AN EDGE OF SLAB
- A SIGNIFICANT CHANGE IN THE SLAB GEOMETRY
- OTHER REINFORCING STEEL OF A SIMILAR NATURE IS SHOWN

STEEL ANNOTATION STYLES

THE FOLLOWING STRUCTURAL ANNOTATIONS MAY APPEAR ON THE STEEL FRAMING PLANS. ALL LOADS INDICATED ARE FACTORED:

W14x90 ← COLUMN SIZE OR MARK (IF PROVIDED)

BF3 ← BASE PLATE MARK (IF PROVIDED)

BEAM SIZE ← BEAM CAMBER

W16x26 C=1.25 ← NON-COMPOSITE BEAM

INDICATOR SYMBOL POINTS AWAY FROM BOTTOM FLANGE OF BEAM BEING BRACED

BRACING ATTACHED DIRECTLY TO FLOOR SYSTEM

SYMBOLIC LINEWORK

THE FOLLOWING SYMBOLIC LINEWORK MAY BE USED THROUGHOUT THE DRAWINGS:

REFERENCE GRID LINE SYMBOL

CENTERLINE SYMBOL

PLAN MATCHLINE SYMBOL

NON-STRUCTURAL LINE SYMBOL

WELDED WIRE REINFORCEMENT SYMBOL

STEEL JOIST LINE SYMBOL

OPENING LINE SYMBOL

REINFORCING STEEL WITH 90° HOOK

REINFORCING STEEL WITH 180° HOOK

CONCRETE FRAMING PENETRATION

STEEL FRAMING PENETRATION

PASS-THROUGH FORCE SYMBOL

BRACE/KICKER INDICATOR SYMBOL

CONNECTION WITH PASS THROUGH FORCE

MOMENT CONNECTION (NON-SEISMIC)

CONNECTION WITH TWO COLUMNS OF BOLTS

CONNECTION WITH DOUBLE SHEAR PLATE

CONNECTION WITH FULL-DEPTH SHEAR PLATE

CONNECTION WITH GUSSET AND WELDED FLANGES

CONNECTION WITH GUSSET

SPECIAL CONNECTION (TYPE X)

CONNECTION WITH WELDED TOP FLANGE

BEAM SPLICE CONNECTION (SHEAR ONLY)

MOMENT CONNECTION (SEISMIC)

VIEW REFERENCE SYMBOLS

THESE FOLLOWING SYMBOLS MAY BE USED THROUGHOUT THE DRAWINGS TO REFER TO OTHER VIEWS:

REFERENCE OBJECT

DETAIL NUMBER OR LETTER

SHEET NUMBER

FRAMING ELEVATION SYMBOL

DETAIL REFERENCE SYMBOL

AREA OR ITEM BEING DETAILED

REFERENCE OBJECT

DETAIL NUMBER OR LETTER

SHEET NUMBER

OVERALL SECTION SYMBOL

PARTIAL SECTION SYMBOL

UNIVERSAL SYMBOLS

THESE FOLLOWING SYMBOLS MAY BE USED THROUGHOUT THE DRAWINGS:

REVISION NUMBER OR LETTER

ELEVATION OF REFERENCE OBJECT OR LOCATION

TOP OF SLAB

REFERENCE OBJECT OR LOCATION

REVISION CLOUD SYMBOL

ELEVATION DESIGNATION SYMBOL

GRID LABEL

WORK POINT SYMBOL

REFERENCE GRID INDICATOR SYMBOL

FLAT FACE BREAK MARK

CURVED FACE BREAK MARK

LINE BREAK MARK

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PROJECT TITLE

**CONTRA COSTA
CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION &
RENOVATION**

1690 Watermill Rd.
San Ramon, CA 94582

RECORD SET:

THESE DRAWINGS HAVE BEEN PREPARED FROM ADDENDUMS, CCD'S, ASIS AND SELECT RFIS OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM. ONLY A SELECT FEW AS-BUILTS WERE SUBMITTED.

ISSUE TITLE

**INCREMENT 2 -
AS-BUILT - FINAL**

ISSUE DATE **08/23/2023**

NOLL & TAM JOB NUMBER **21630**

REVISIONS

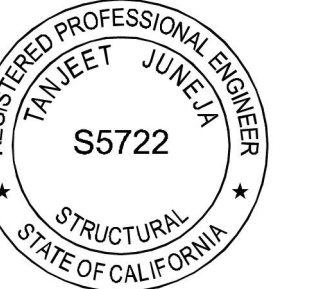
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SHEET TITLE

**SYMBOLS &
ABBREVIATIONS**

SHEET NUMBER

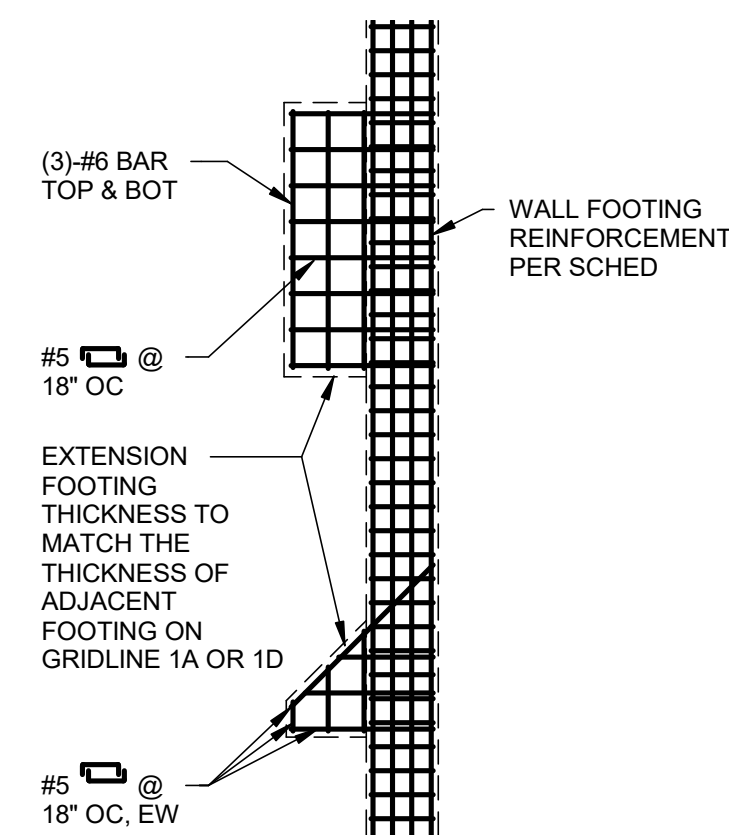
S0.03.2



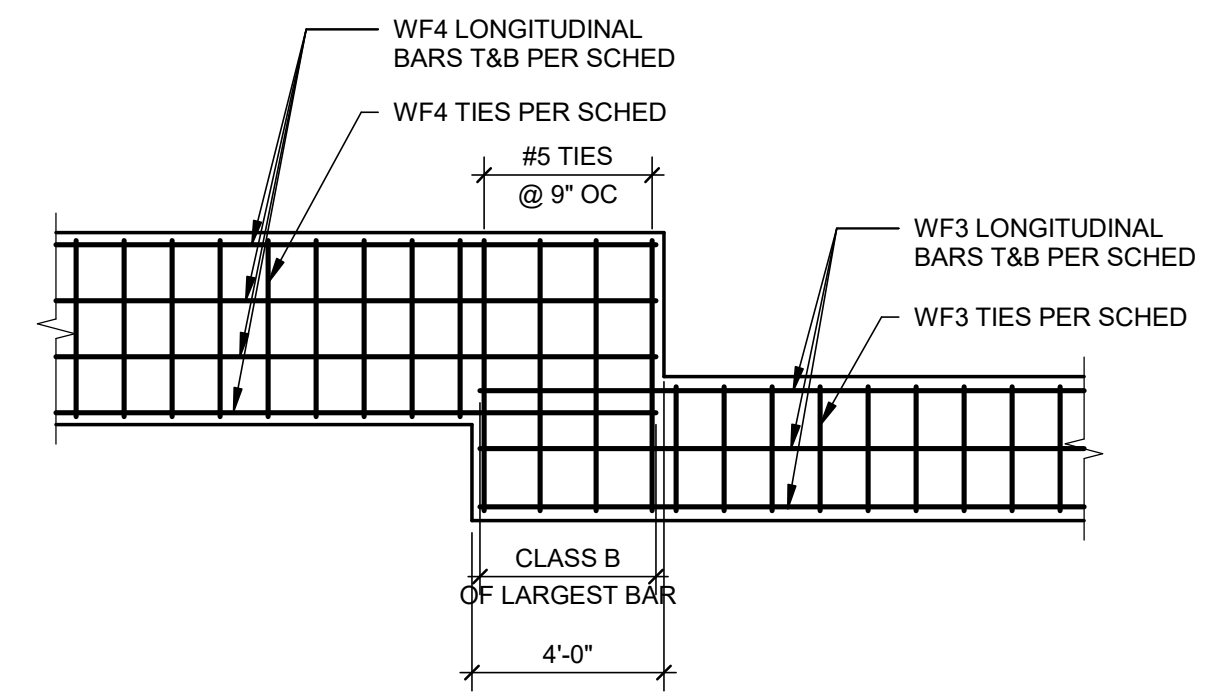
THESE DRAWINGS HAVE BEEN PREPARED FROM ADDENDUMS, CCD'S, ASIS AND SELECT RFI'S OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM. ONLY A SELECT FEW AS-BUILTS WERE SUBMITTED.

| REVISIONS | DATE | DESCRIPTION |
|-----------|------|-------------|
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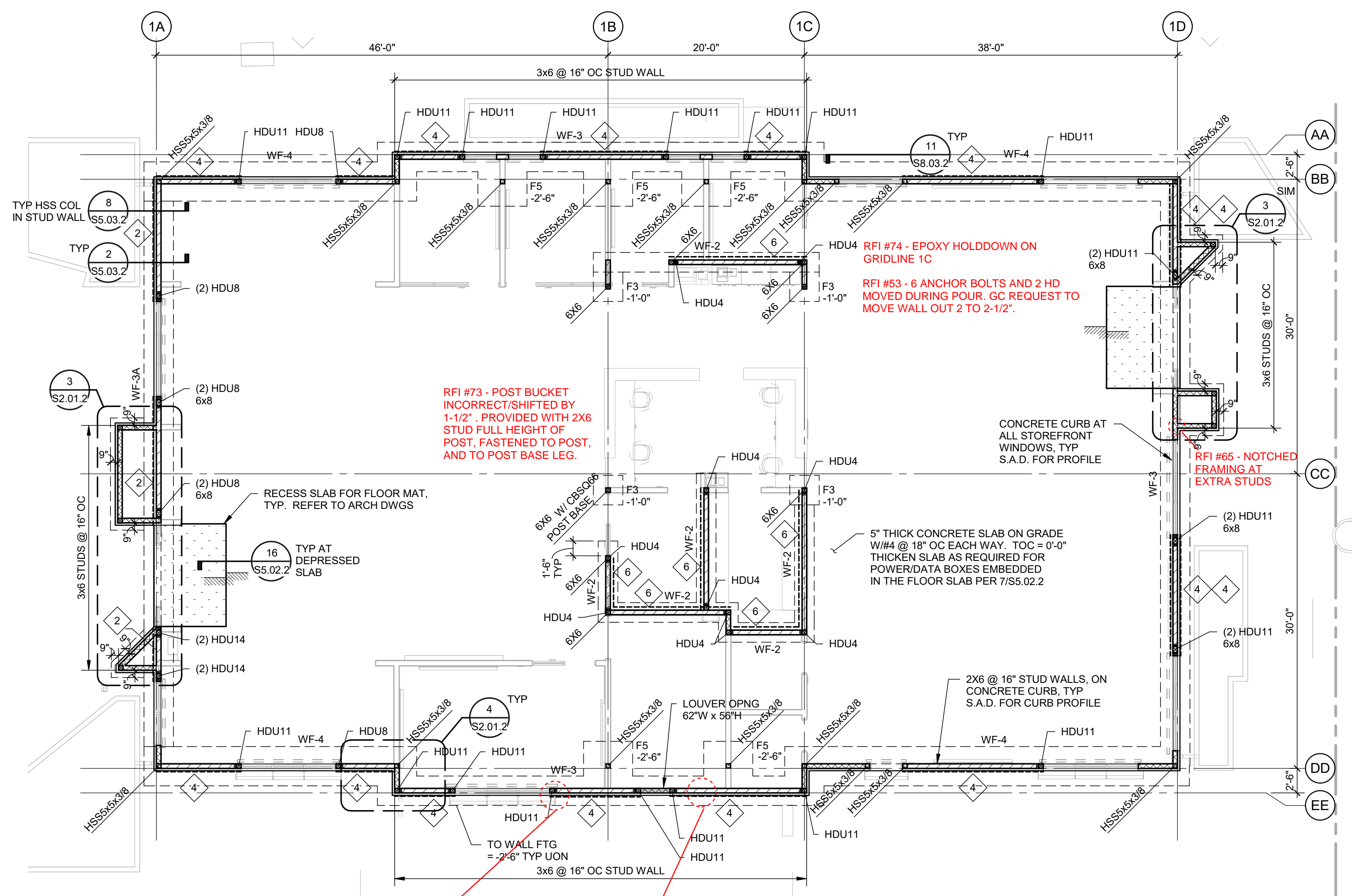
- FOUNDATION NOTES:**
- SEE SHEETS S5.01-S5.03 FOR GENERAL STRUCTURAL NOTES, FOUNDATION DESIGN CRITERIA, AND DEFINITION OF SYMBOLS AND NOTATIONS.
 - SEE TYPICAL CONCRETE DETAILS ON SHEETS S5.01-2-S5.03.2.
 - FOUNDATION PLAN IS TAKEN ABOVE SLAB-ON-GRADE. TOP OF SLAB ELEVATION IS NOTED ON PLAN. REFER TO CIVIL FOR DATUM ELEVATION. TOP OF CONCRETE ELEVATIONS WITH RESPECT TO THE SLAB REFERENCE ELEVATION ARE SHOWN THUS: (-0' - 2').
 - ELEVATIONS OF TOP OF FOOTINGS WITH RESPECT TO SLAB REFERENCE ELEVATIONS ARE SHOWN THUS: -3'-0'.
 - EXCAVATIONS SHALL BE MADE AS NEAR AS POSSIBLE TO THE NEAT LINES REQUIRED BY THE SIZE AND SHAPE OF THE FOUNDATION. NO MATERIAL IS TO BE EXCAVATED UNNECESSARILY.
 - ALL FOUNDATION EXCAVATIONS MUST BE REVIEWED AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF CONCRETE.
 - VERIFY THE LOCATION OF UNDERGROUND UTILITIES BEFORE EXCAVATION AND NOTIFY THE ARCHITECT OF UNANTICIPATED UTILITY LINES PRIOR TO EXCAVATION.
 - FOR DRAINAGE DETAILS, SUMPS, MOISTURE PROTECTION, TRENCHES, CURBS, EXTERIOR FLATWORK CONCRETE, STEPS, UTILITIES, EQUIPMENT DETAILS, ETC., SEE DRAWINGS OTHER THAN STRUCTURAL.
 - MARKS "F3" DENOTE FOOTING TYPE. SEE FOOTING SCHEDULE ON SHEET S5.03.2.
 - MARKS "WF-1" DENOTE WALL FOOTING TYPE. SEE WALL FOOTING SCHEDULE ON SHEET S5.03.2.
 - SLAB CONSTRUCTION AND CONTROL JOINT LOCATIONS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO PLACING CONCRETE.
 - FOR TYPICAL WOOD FRAMING DETAILS SEE SHEETS S8.01.2 THROUGH S8.04.2.
 - SILL BOLTS ARE REQUIRED AT ALL STUD WALLS SHOWN ON THE STRUCTURAL DRAWINGS. SEE DETAILS ON SHEET S8.02.2.
 - ALL EXTERIOR WALLS SHALL HAVE 15/32" PLYWOOD SHEATHING ON EXTERIOR FACE OF STUDS UNO. SEE SHEAR WALL SCHEDULE ON SHEET S8.03.2 FOR PLYWOOD NAILING, SOLE PLATE NAILING AND SHEAR CLIPS.
 - MARKS DENOTE PLYWOOD SHEAR WALLS WITH SHEATHING ON SIDE(S) OF WALL. NOTED. SEE SHEAR WALL SCHEDULE ON SHEET S8.03.2.
 - HOLD-DOWNS ARE DENOTED THUS ON PLAN: "HDU#". SEE HOLD-DOWN DETAILS ON SHEET S8.03.2.
 - STRUCTURAL STUD WALLS SHOWN SHALL BE 2X6 STUDS AT 16" ON CENTER TYPICAL UNO. FOR TYPICAL FRAMING OF STRUCTURAL STUD WALLS SEE TYPICAL DETAILS ON SHEET S8.02.2.
 - FOR ALL OPENING SIZES AND LOCATIONS THROUGH STRUCTURAL WALLS (WINDOWS, DOORS, ETC.), SEE ARCHITECTURAL DRAWINGS.



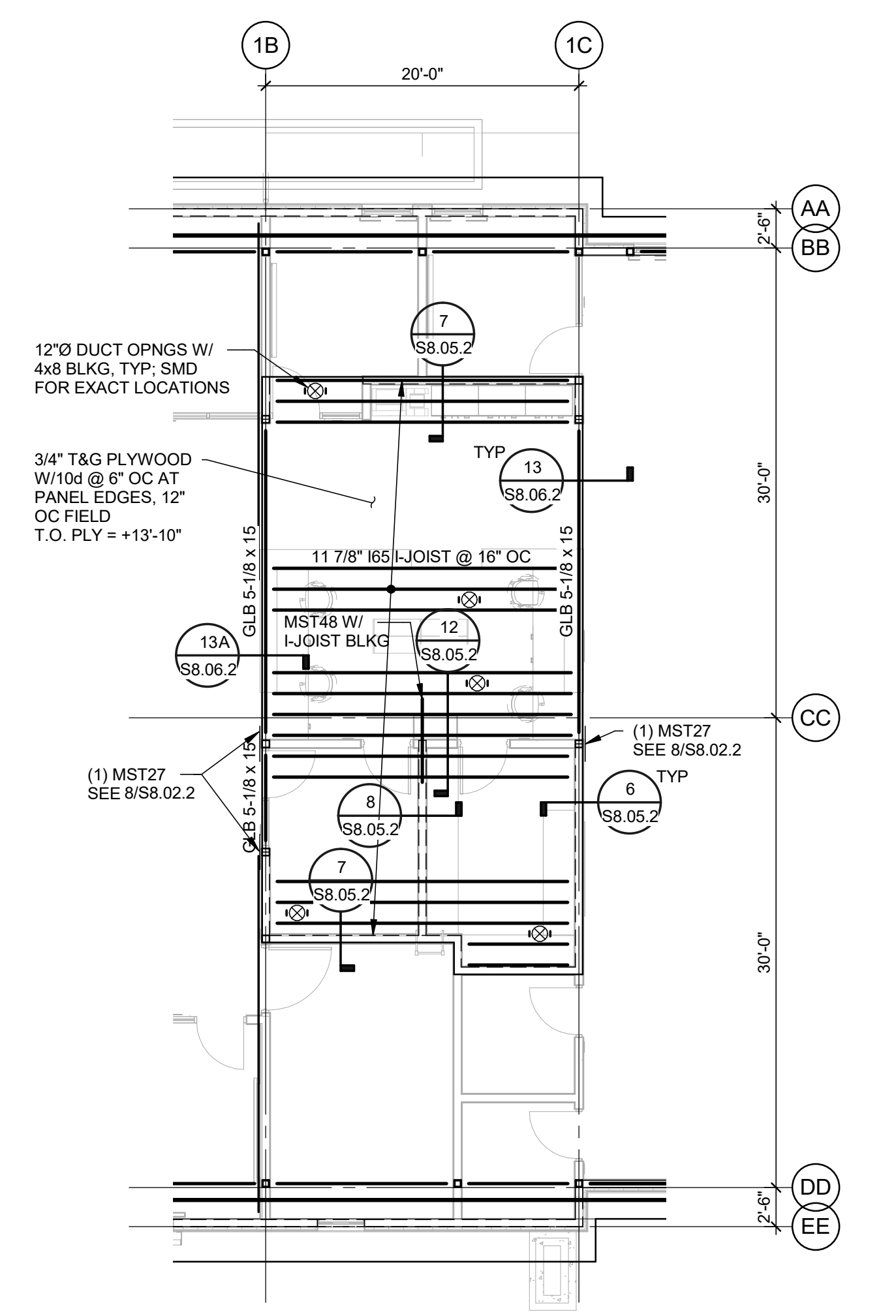
3 FOUNDATION DETAIL
1/8" = 1'-0"



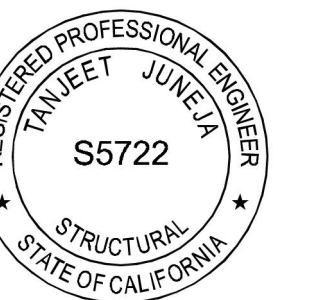
4 WF-3 AND WF-4 INTERSECTION TYP DETAIL
1/4" = 1'-0"



1 FOUNDATION PLAN
1/8" = 1'-0"



2 MECHANICAL PLATFORM FRAMING PLAN
1/8" = 1'-0"

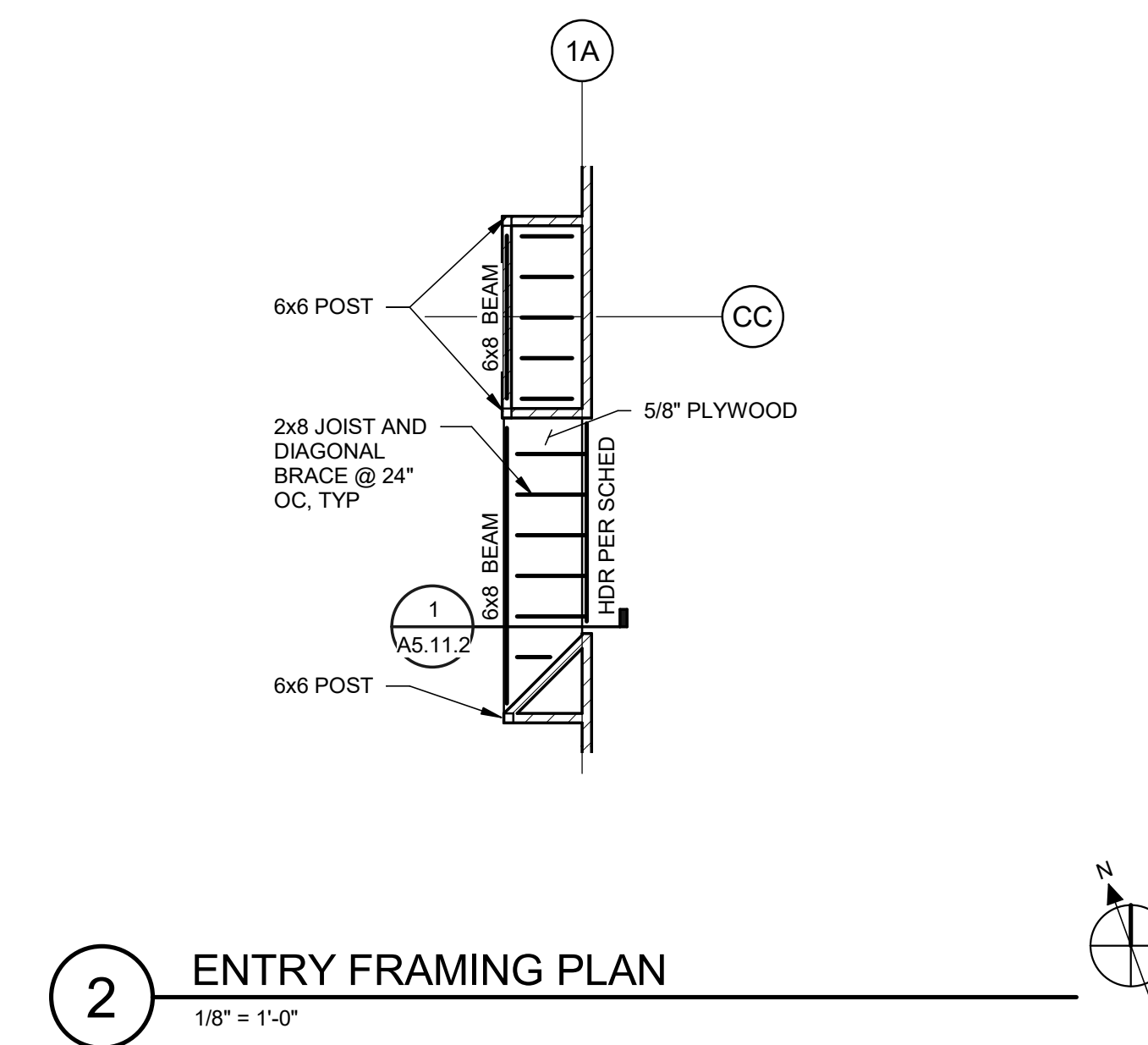
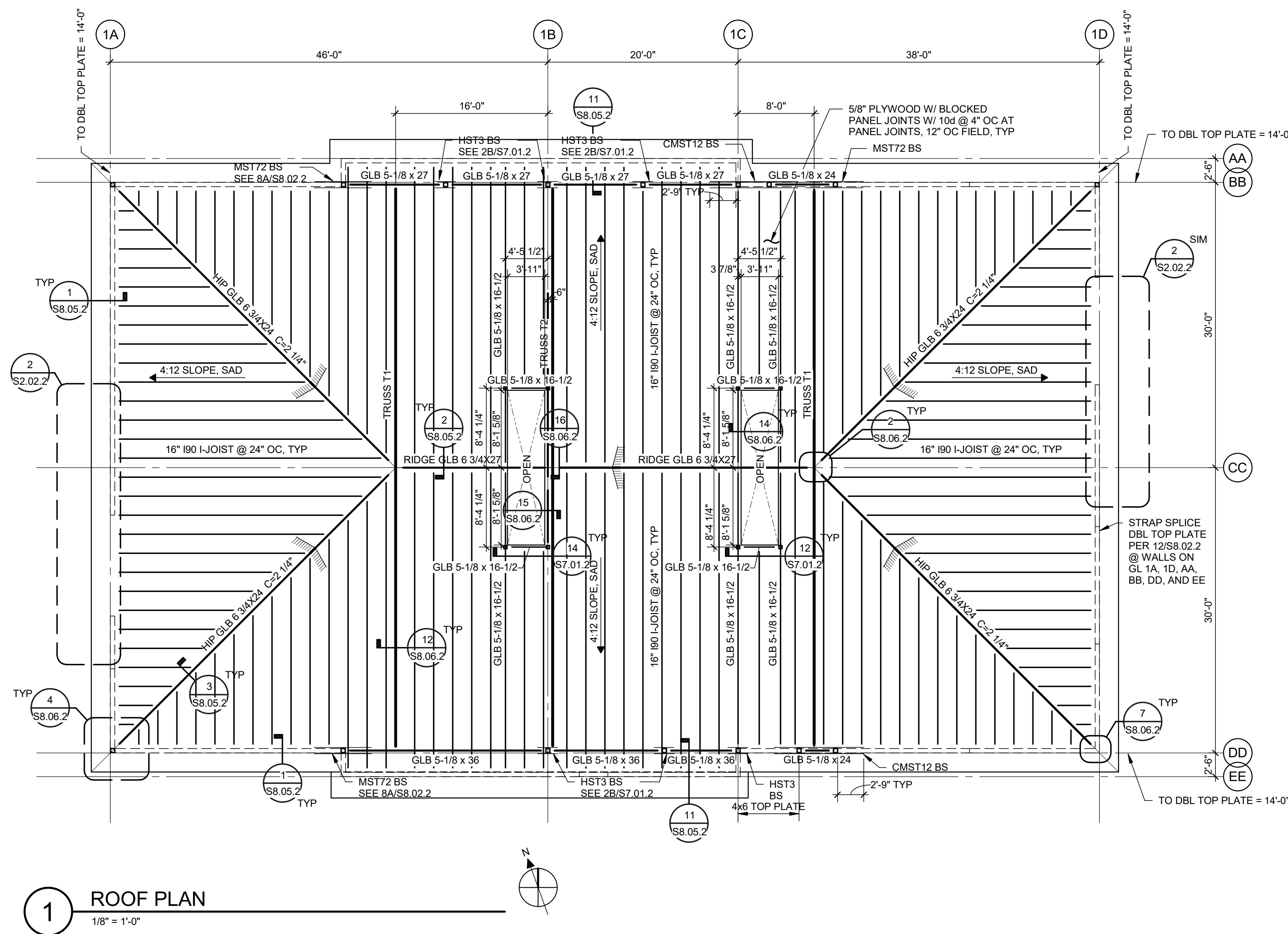
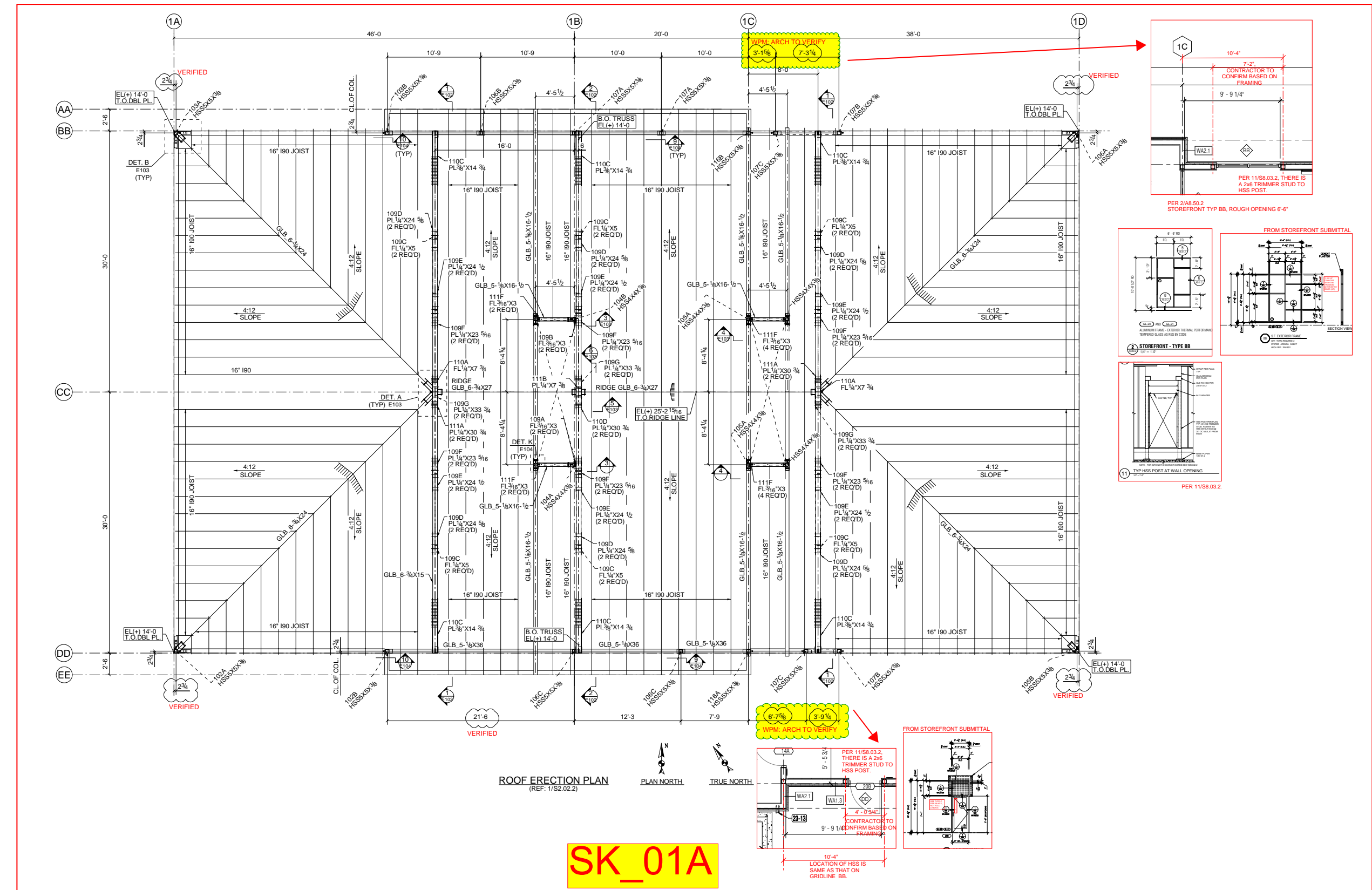


THESE DRAWINGS HAVE BEEN PREPARED FROM ADDENDUMS, CCD'S, ASIS AND SELECT RFI'S OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM. ONLY A SELECT FEW AS-BUILTS WERE SUBMITTED.

ROOF FRAMING NOTES:

- SEE GENERAL STRUCTURAL NOTES AND SYMBOLS ON SHEETS S0.01-S0.03. SEE TYPICAL WOOD FRAME DETAILS ON SHEETS S8.01.2, S8.02.2 AND S8.03.2.
- NOMINAL ROOF TOP OF PLYWOOD ELEVATION VARIES AND IS CALLED OUT ON PLAN RELATIVE TO THE FIRST FLOOR SLAB.
- MARKS "GLB 5-1/8 x 12 C-X" DENOTE GLULAM BEAMS WITH CAMBER. CAMBER MEASUREMENT IS UP AT MIDSPAN IN THE UNSTRESSED CONDITION.
- MARKS "16" I90 I-JOIST" DENOTE WOOD I-JOISTS. SEE I-JOIST SCHEDULE AND TYPICAL I-JOIST DETAILS ON SHEET S8.04.2 AND S8.05.2.
- OPENING INFORMATION ON THE STRUCTURAL ROOF FRAMING PLAN IS NOT COMPLETE AS TO NUMBER, SIZE, AND LOCATION. FOR COMPLETE INFORMATION ON OPENINGS FOR ROOF DRAINS, VENTS, SKYLIGHTS, DUCTS, ETC. SEE ARCHITECTURAL AND MEP DRAWINGS.
- FOR DRAINAGE SLOPES, GUTTERS, CRICKETS, FASCIA DETAILS, ETC. SEE ARCHITECTURAL DRAWINGS.
- FOR SIZES AND LOCATIONS OF MECHANICAL EQUIPMENT AND DUCT OPENINGS, SEE MECHANICAL DRAWINGS. CONTRACTOR SHALL COORDINATE THE LOCATIONS OF EQUIPMENT SUPPORT FRAMING WITH EQUIPMENT SPECIFICATIONS.
- FOR TYPICAL WOOD POST DETAILS SEE SHEET S8.02.2.
FOR HOLDDOWN POSTS SEE DETAILS S4/S8.03.2.
- WHERE METAL FRAMING CONNECTORS ARE DENOTED, "SIMPSON" CONNECTORS ARE SPECIFIED.
- NON-LOAD BEARING PARTITION WALLS SHOWN ON PLAN ARE FOR REFERENCE ONLY. SEE ARCHITECTURAL DRAWINGS FOR PARTITION WALL INFORMATION.
- TAPERED BEAM DEPTH CALLED OUT IS BEAM DEPTH AT RIDGE.
- FOR JOIST HANGERS, SEE SCHEDULE ON SHEET S8.02.2.

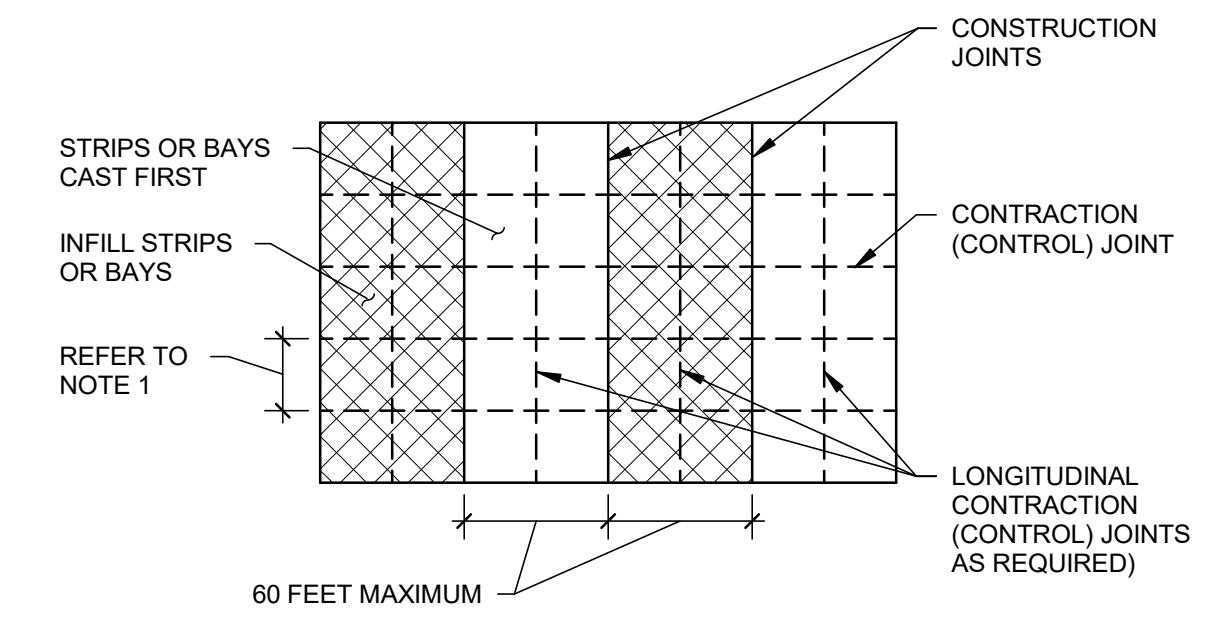
RFI #40-
SEE RFI#40 FOR ADDITIONAL INFORMATION



DOWEL AND JOINT SPACING SCHEDULE

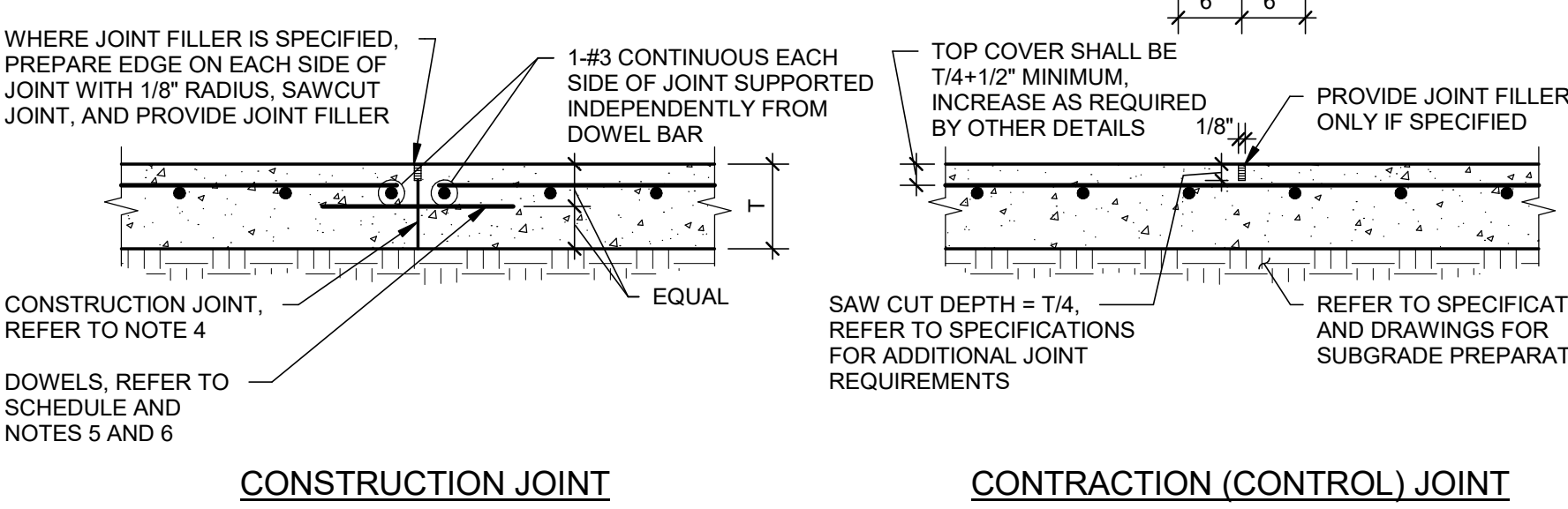
| SLAB DEPTH | DOWEL SIZE | DOWEL LENGTH | DOWEL SPACING | MAXIMUM JOINT SPACING |
|------------|------------|--------------|---------------|-----------------------|
| 5" | 3/4"Ø | 16" | 12" | 13'-0" |
| 6" | 3/4"Ø | 16" | 12" | 14'-6" |
| 7" | 1"Ø | 18" | 12" | 16'-0" |
| 8" | 1"Ø | 18" | 12" | 17'-6" |

- NOTES:**
- REFER TO PLAN FOR SLAB THICKNESS (T) AND REINFORCEMENT.
 - SLAB REINFORCEMENT SHALL BE CHAIRED BY SOIL SUPPORTED SLAB BOLSTERS.
 - LONG STRIP CONSTRUCTION METHOD SHALL BE USED IN PLACING CONCRETE FOR ALL SLABS-ON-GRADE UNLESS NOTED OTHERWISE. REFER TO "TYPICAL LONG STRIP CONSTRUCTION SCHEMATIC JOINT LAYOUT" FOR COMPLETE PLACING SEQUENCE. AT CONTRACTOR'S OPTION, LARGER SLAB AREAS MAY BE POURED PROVIDED THE EARLY ENTRY DRY-CUT METHOD OF INSTALLING CONTRACTION JOINTS IS USED. REFER TO THE SPECIFICATIONS.
 - AT CONTRACTION JOINTS, BREAK BOND BETWEEN NEW AND PREVIOUSLY PLACED SLAB BY SPRAYING OR PAINTING EXPOSED SIDES OF JOINT WITH A CURING COMPOUND, BONDBREAKER, OR FORM OIL. DOWELS SHOULD BE SMOOTH, ALIGNED, AND SUPPORTED SO THEY WILL REMAIN PARALLEL IN BOTH THE HORIZONTAL AND VERTICAL PLANES.
 - TO PREVENT A BOND BETWEEN THE DOWEL AND THE CONCRETE, LIGHTLY COAT THE EXPOSED END OF THE DOWELS WITH A PARAFFIN-BASED LUBRICANT, ASPHALT EMULSION, FORM OIL, OR GREASE IMMEDIATELY BEFORE PLACING CONCRETE. ON THE SECOND SIDE OF THE JOINT, ALTERNATIVELY, USE A PLASTIC OR METAL SLEEVE SPECIFICALLY MANUFACTURED FOR THIS PURPOSE.
 - AT CONTRACTION (CONTROL) JOINTS, MAKE SAW CUT AS SOON AS SLAB IS ABLE TO SUPPORT WEIGHT OF WORKERS AND SAWING EQUIPMENT WITHOUT DAMAGE TO FINISH SURFACE OF SLAB. REFER TO SPECIFICATIONS.
 - PROVIDE CONTRACTION OR CONSTRUCTION JOINTS AT EVERY COLUMN LINE AND IN BETWEEN THE COLUMN LINES SUCH THAT THE JOINT SPACING DOES NOT EXCEED TABULATED DISTANCES.
 - FOR SLAB THICKNESS IN BETWEEN TABULATED VALUES, USE DOWEL INFORMATION FOR THICKER SLAB. MAXIMUM JOINT SPACING SHALL BE INTERPOLATED.

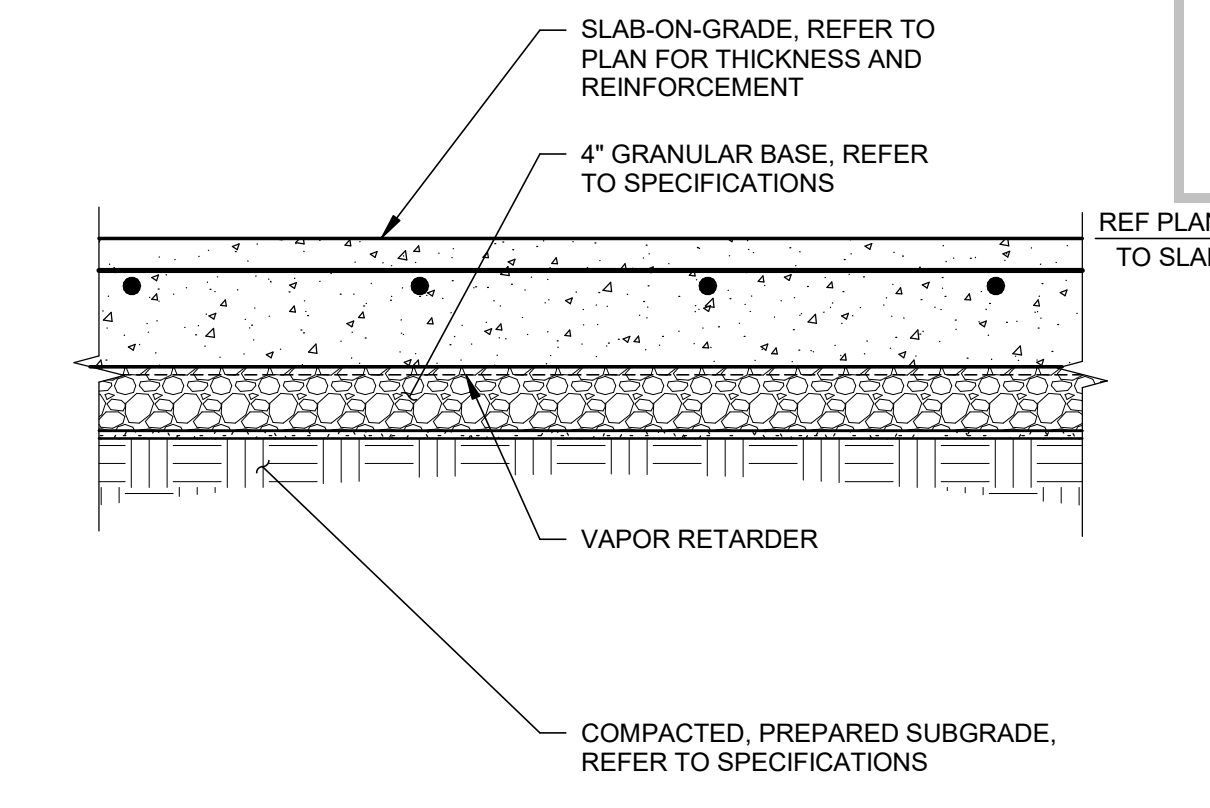


- NOTES:**
- REFER TO "TYPICAL CONSTRUCTION AND CONTROL JOINTS - SLAB-ON-GRADE" FOR ADDITIONAL INFORMATION, INCLUDING JOINT SPACING REQUIREMENTS.

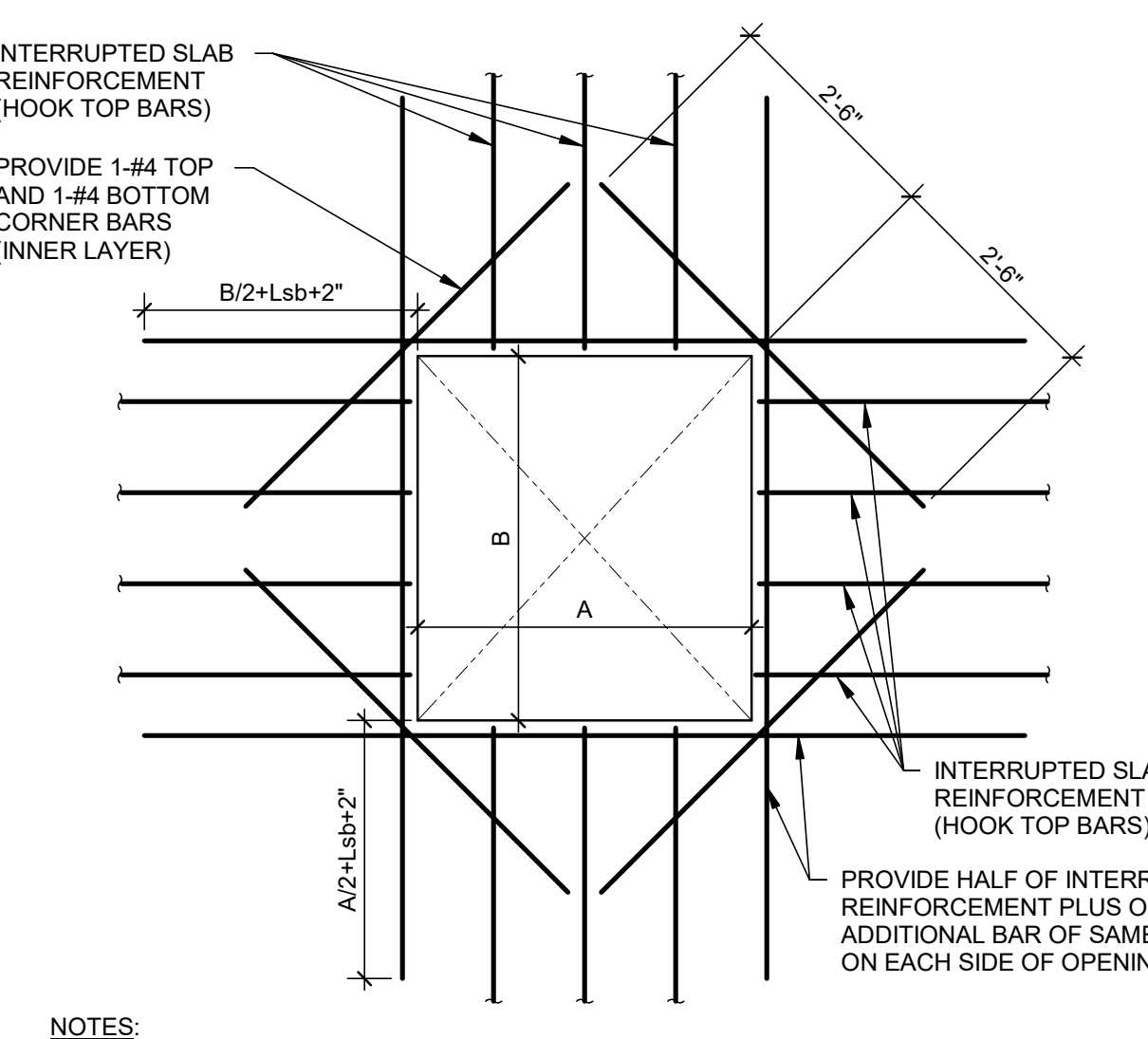
5 TYPICAL LONG STRIP CONSTRUCTION SCHEMATIC JOINT LAYOUT
3/4" = 1'-0"



4 TYPICAL CONSTRUCTION AND CONTROL JOINTS IN SLAB-ON-GRADE
NO SCALE

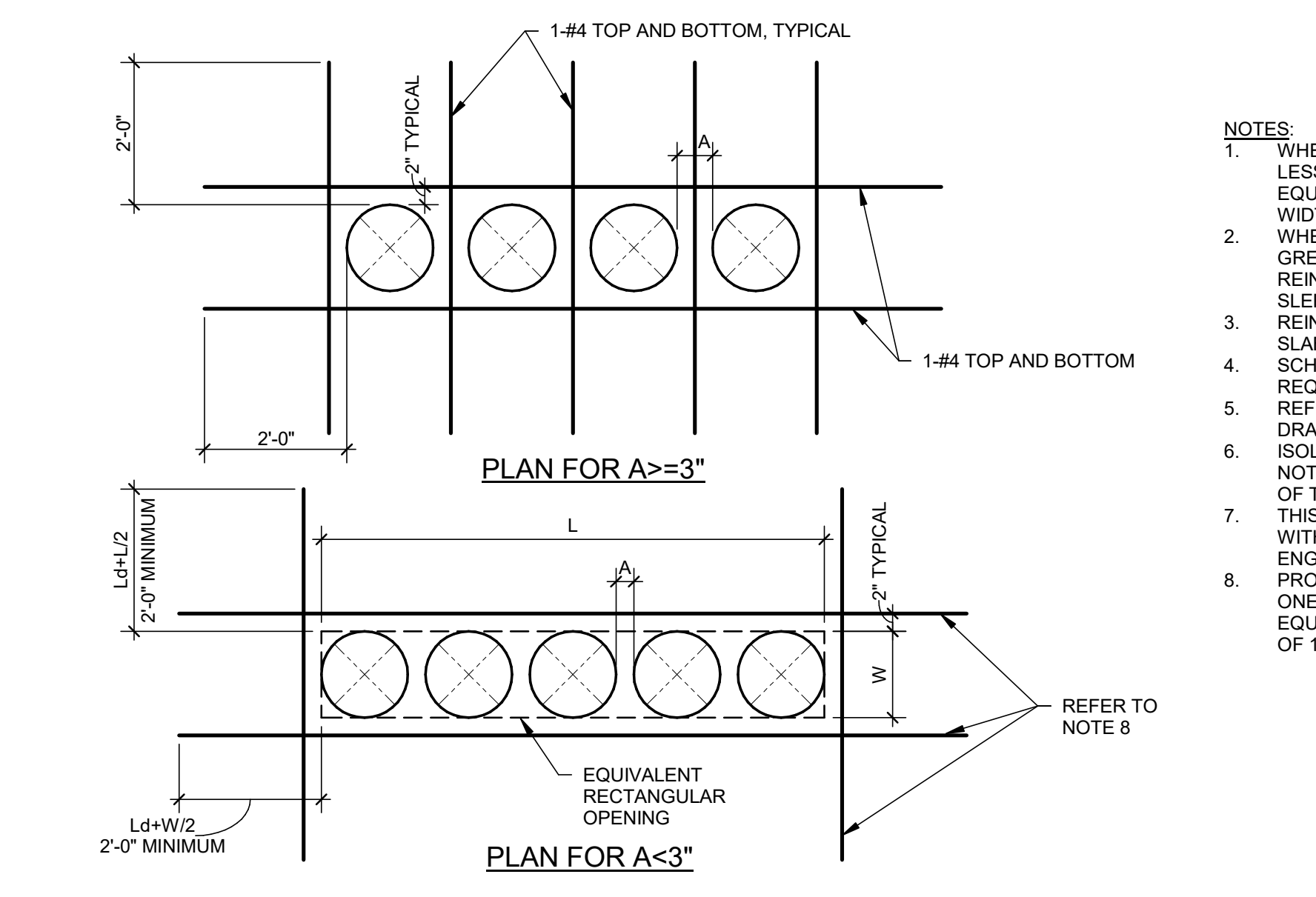


1 TYPICAL SLAB-ON-GRADE SUBGRADE PREPARATION
NO SCALE

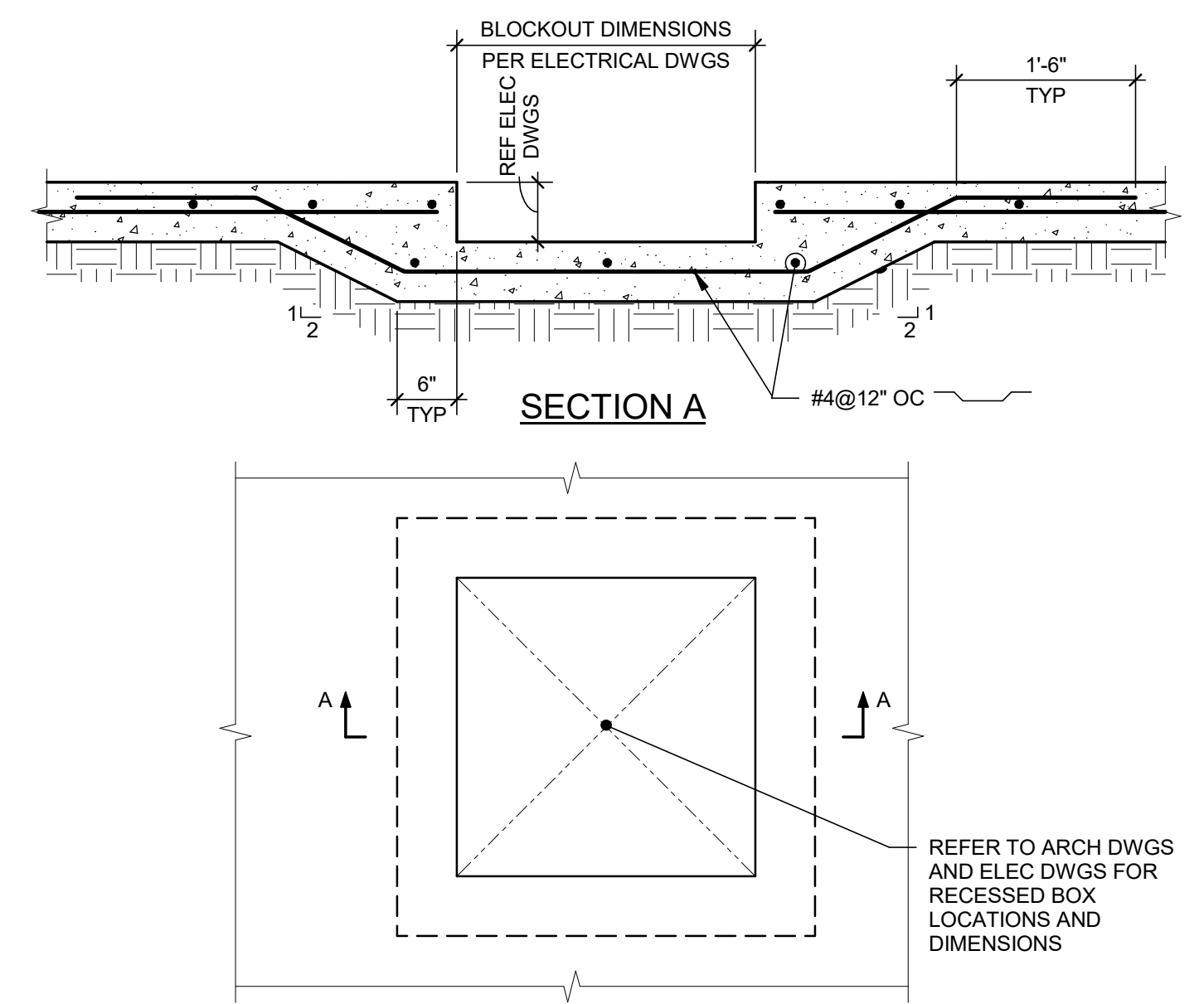


- NOTES:**
- 1-#4 EQUALS BAR "CLASS B" TENSION LAP SPICE LENGTH, UNLESS NOTED OTHERWISE.
 - SLAB OPENINGS ARE ONLY PERMITTED WHERE INDICATED ON THE STRUCTURAL PLANS OR AS APPROVED BY THE STRUCTURAL ENGINEER.

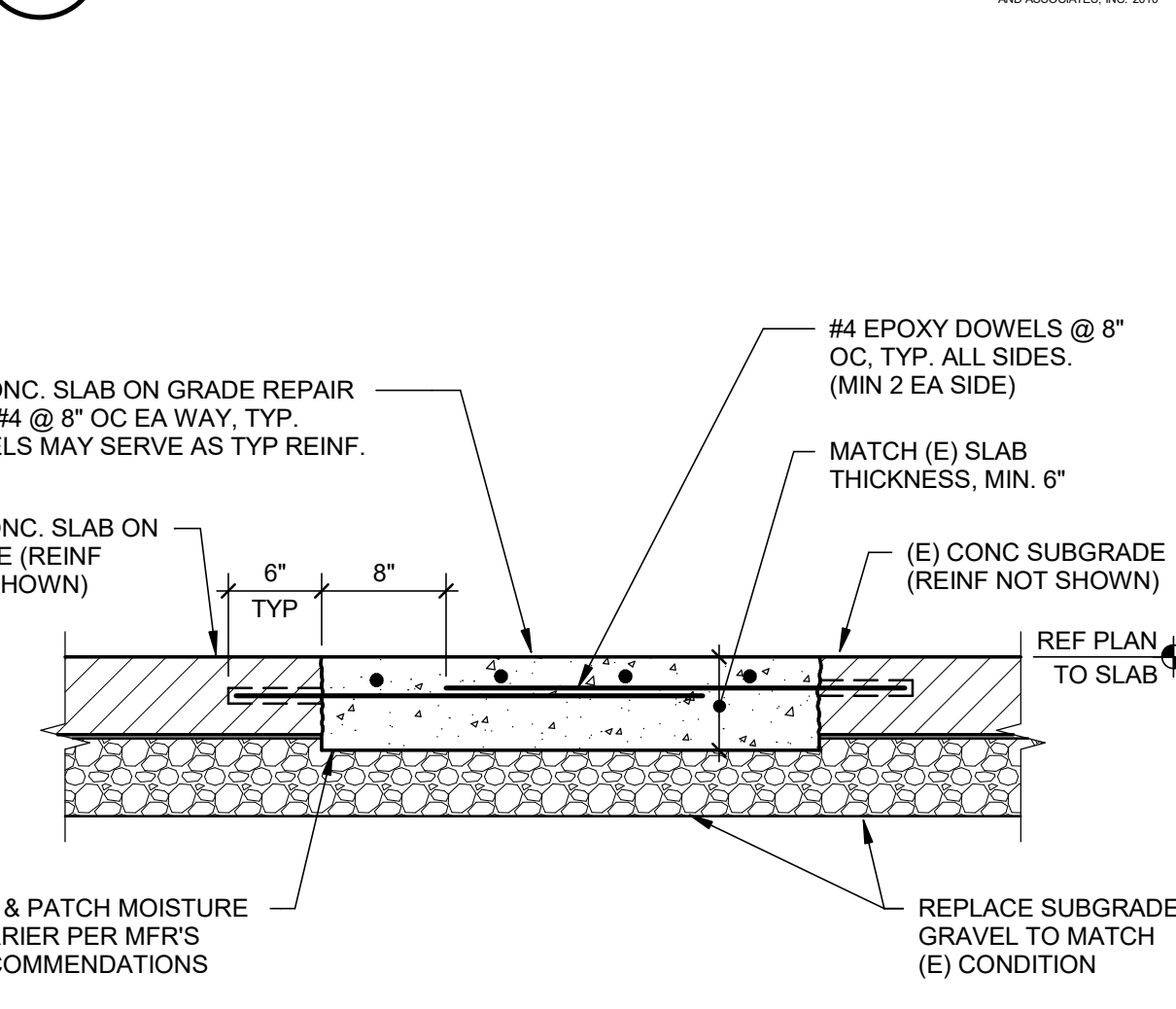
10 TYPICAL SLAB OPENING REINFORCEMENT
NO SCALE



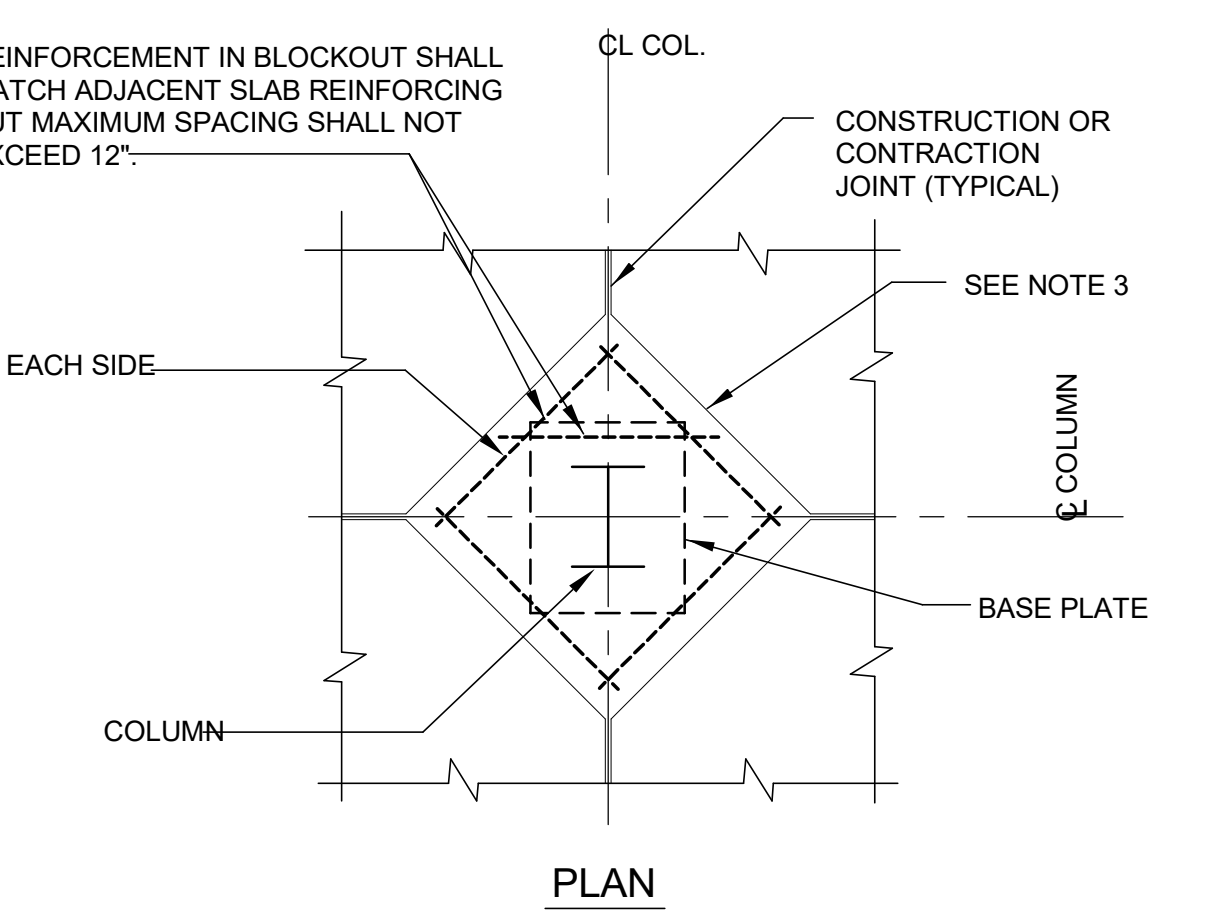
9 ADDITIONAL REINFORCEMENT AROUND PIPE SLEEVES
NO SCALE



7 SLAB AT RECESSED FLOOR BOX
3/4" = 1'-0"

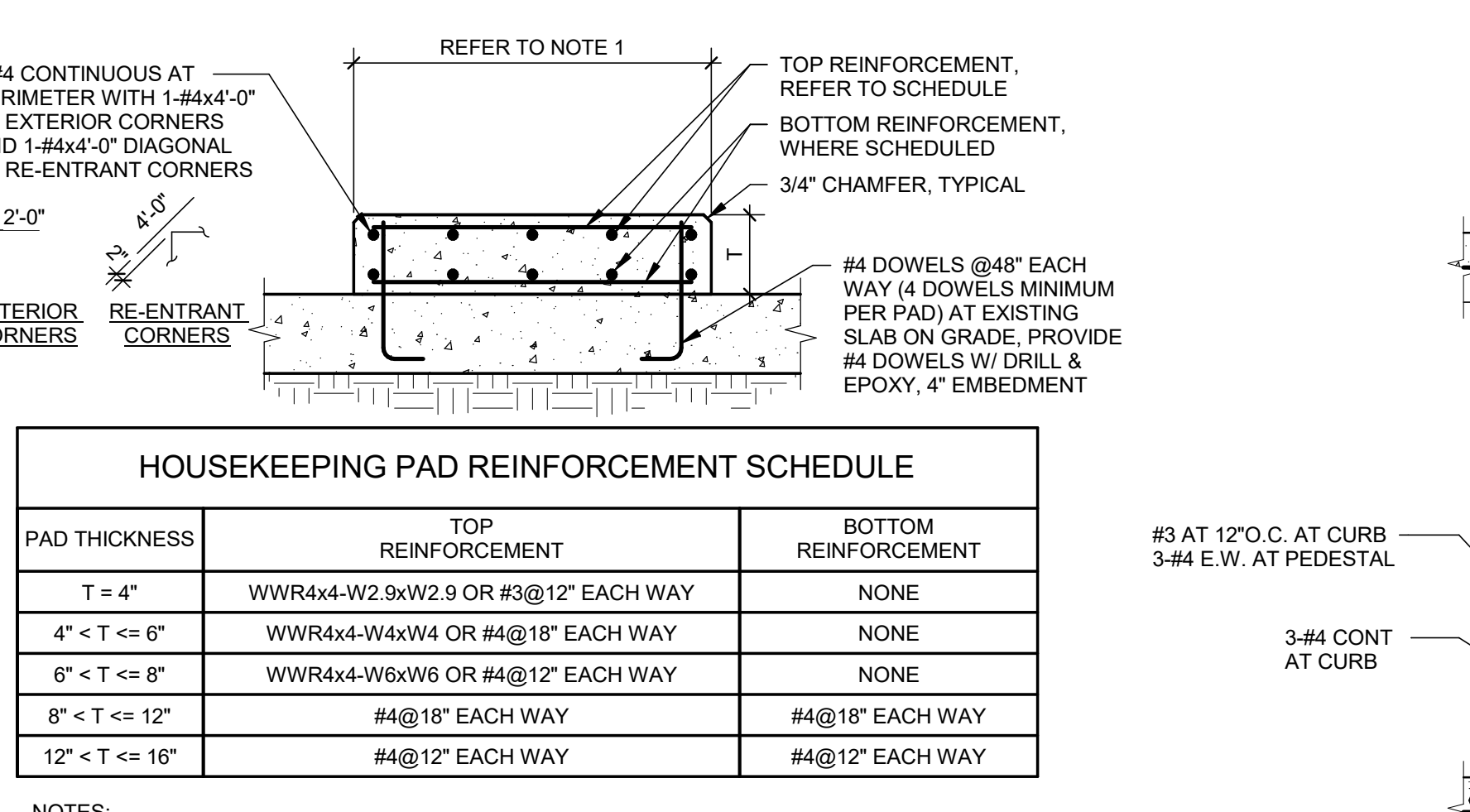


6 REPAIR OF (E) SLAB-ON-GRADE
NO SCALE



- NOTES:**
- GENERAL CONTRACTOR TO COORDINATE REQUIRED SIZE OF BLOCKOUT FOR STRUCTURAL STEEL COLUMNS WITH STEEL ERECTOR. SUBMIT THE DESIRED BLOCKOUT SIZE TO ARCHITECT FOR APPROVAL.
 - PROVIDE 3" MINIMUM CONCRETE COVER ALL AROUND COLUMN AND BASE PLATE.
 - BLOCKOUT SLAB FOR INSTALLATION OF COLUMN. POUR BLOCKOUT AREA AFTER COLUMN IS INSTALLED.

15 SOG BLOCKOUT AROUND STEEL COLUMN
NO SCALE

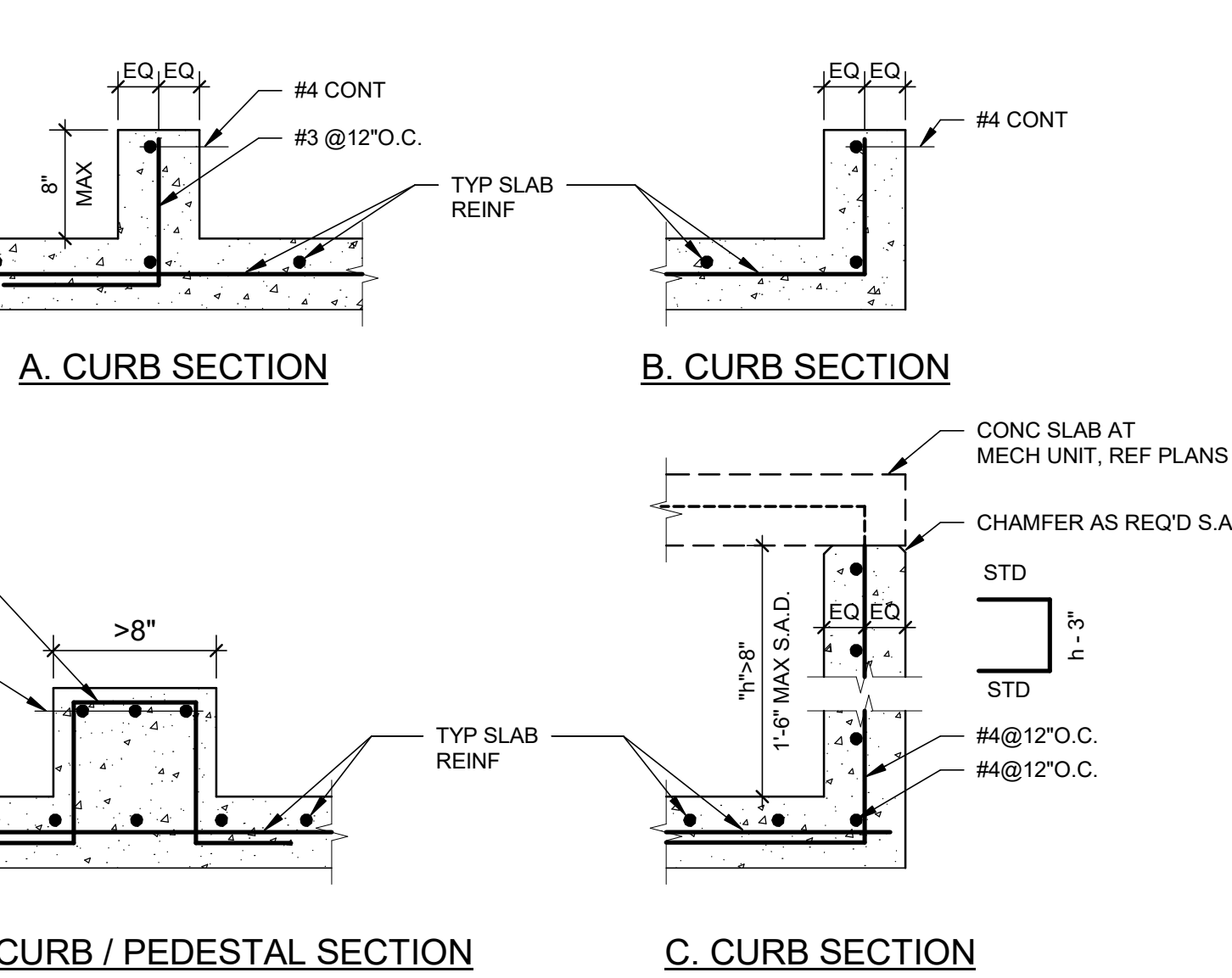


- NOTES:**
- REFER TO ARCHITECTURAL, STRUCTURAL, OR MEP DRAWINGS FOR HOUSEKEEPING PAD PLAN DIMENSIONS AND THICKNESS (IF MINIMUM THICKNESS). CONTRACTOR SHALL COORDINATE DIMENSIONS AND OTHER SPECIAL REQUIREMENTS WITH EQUIPMENT MANUFACTURERS AND PROVIDE WHERE REQUIRED WHETHER SHOWN ON STRUCTURAL DRAWINGS OR NOT.

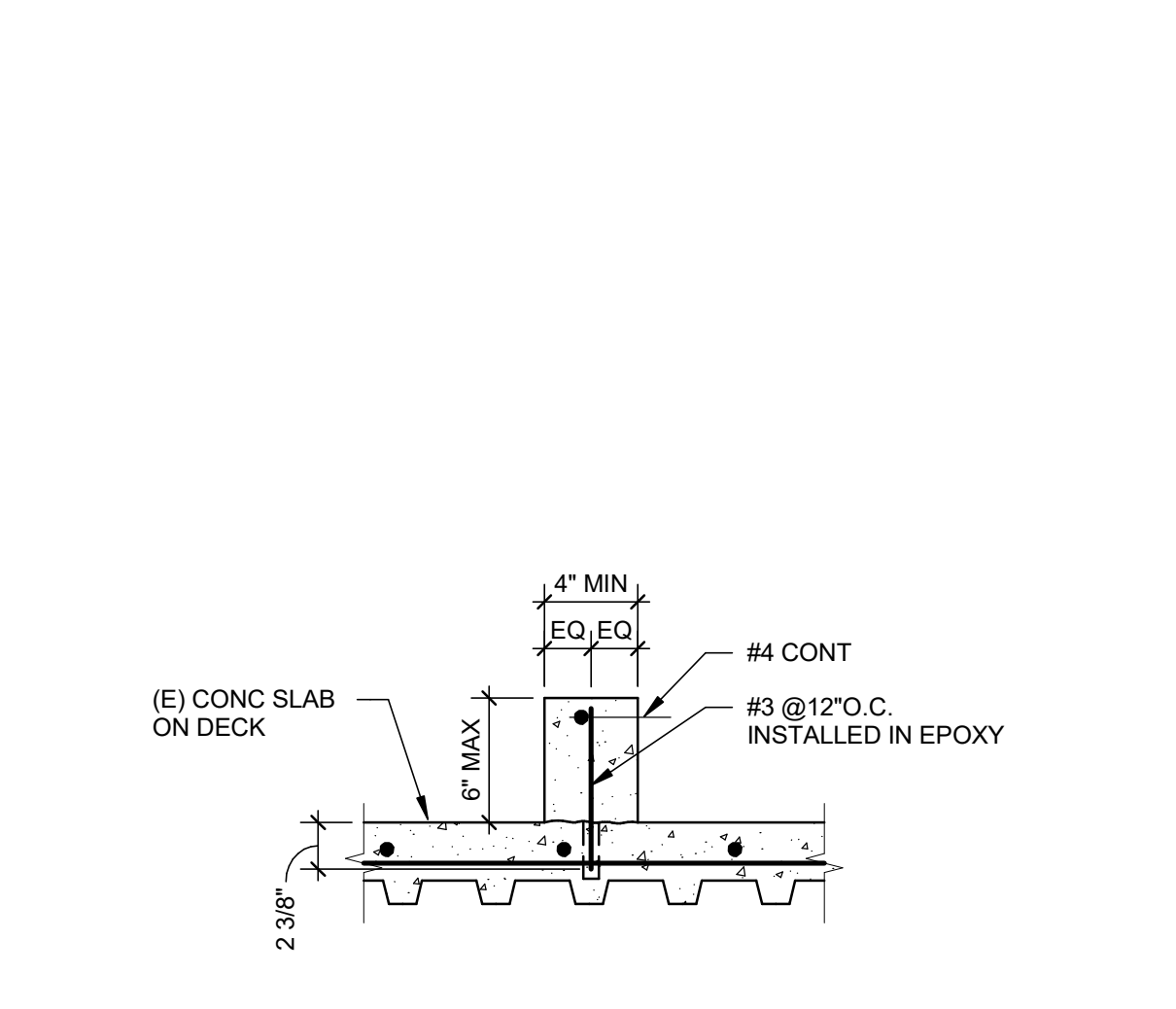
14 TYPICAL HOUSEKEEPING PAD OVER SLAB-ON-GRADE
NO SCALE

HOUSEKEEPING PAD REINFORCEMENT SCHEDULE

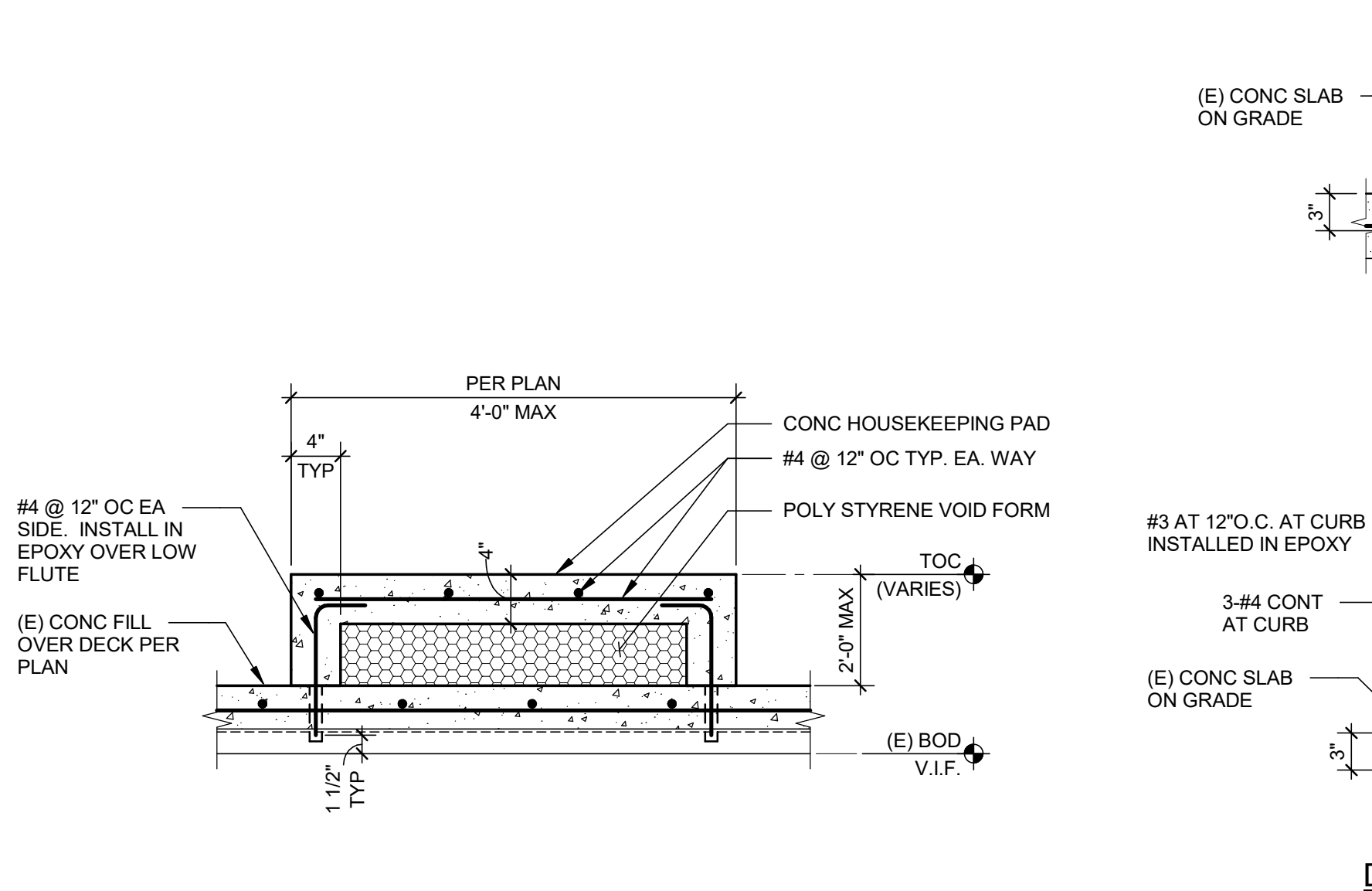
| PAD THICKNESS | TOP REINFORCEMENT | BOTTOM REINFORCEMENT |
|----------------|-------------------------------------|----------------------|
| T = 4" | WWR4x4-W2.9xW2.9 OR #3@12" EACH WAY | NONE |
| 4" < T <= 6" | WWR4x4-W4xW4 OR #4@18" EACH WAY | NONE |
| 6" < T <= 8" | WWR4x4-W6xW6 OR #4@12" EACH WAY | NONE |
| 8" < T <= 12" | #4@18" EACH WAY | #4@18" EACH WAY |
| 12" < T <= 16" | #4@12" EACH WAY | #4@12" EACH WAY |



13 TYPICAL CURBS ON SLAB ON GRADE
1" = 1'-0"



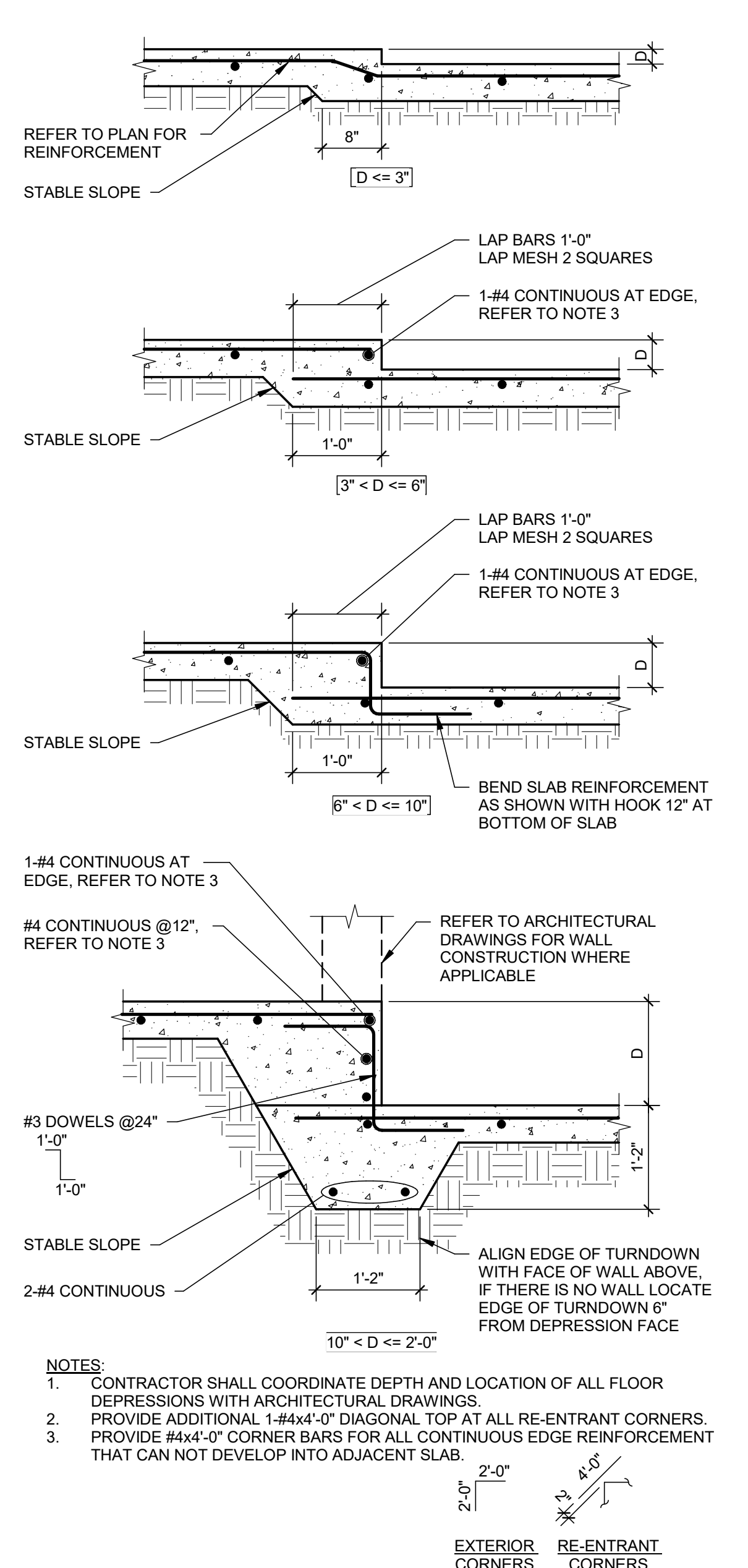
20 TYPICAL NEW CURBS ON EXISTING CONCRETE OVER METAL DECK SLAB
1" = 1'-0"



18 TYPICAL CURBS ON EXISTING SLAB ON GRADE
1" = 1'-0"

- NOTES:**
- SEE ARCHITECTURAL FOR DIMENSIONS, DETAILS AND INFORMATION NOT SHOWN OR NOTED.
 - WHERE EXPANSION ANCHORS ARE TO BE INSTALLED, THE MINIMUM CURB THICKNESS SHALL BE 6".

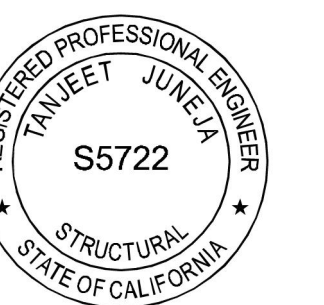
- NOTES:**
- CONTRACTOR SHALL COORDINATE DEPTH AND LOCATION OF ALL FLOOR DEPRESSIONS WITH ARCHITECTURAL DRAWINGS.
 - PROVIDE ADDITIONAL 1-#4x4'-0" DIAGONAL TOP AT ALL RE-ENTRANT CORNERS. PROVIDE #4x4'-0" CORNER BARS FOR ALL CONTINUOUS EDGE REINFORCEMENT THAT CAN NOT DEVELOP INTO ADJACENT SLAB.



16 TYPICAL SLAB-ON-GRADE DEPRESSIONS
NO SCALE

REVISIONS

| DATE | DESCRIPTION |
|------|-------------|
| | |



THESE DRAWINGS HAVE BEEN PREPARED FROM ADDENDUMS, CCD'S, ASIS AND SELECT RFI'S OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM. ONLY A SELECT FEW AS-BUILTS WERE SUBMITTED.

WALL FOOTING SCHEDULE

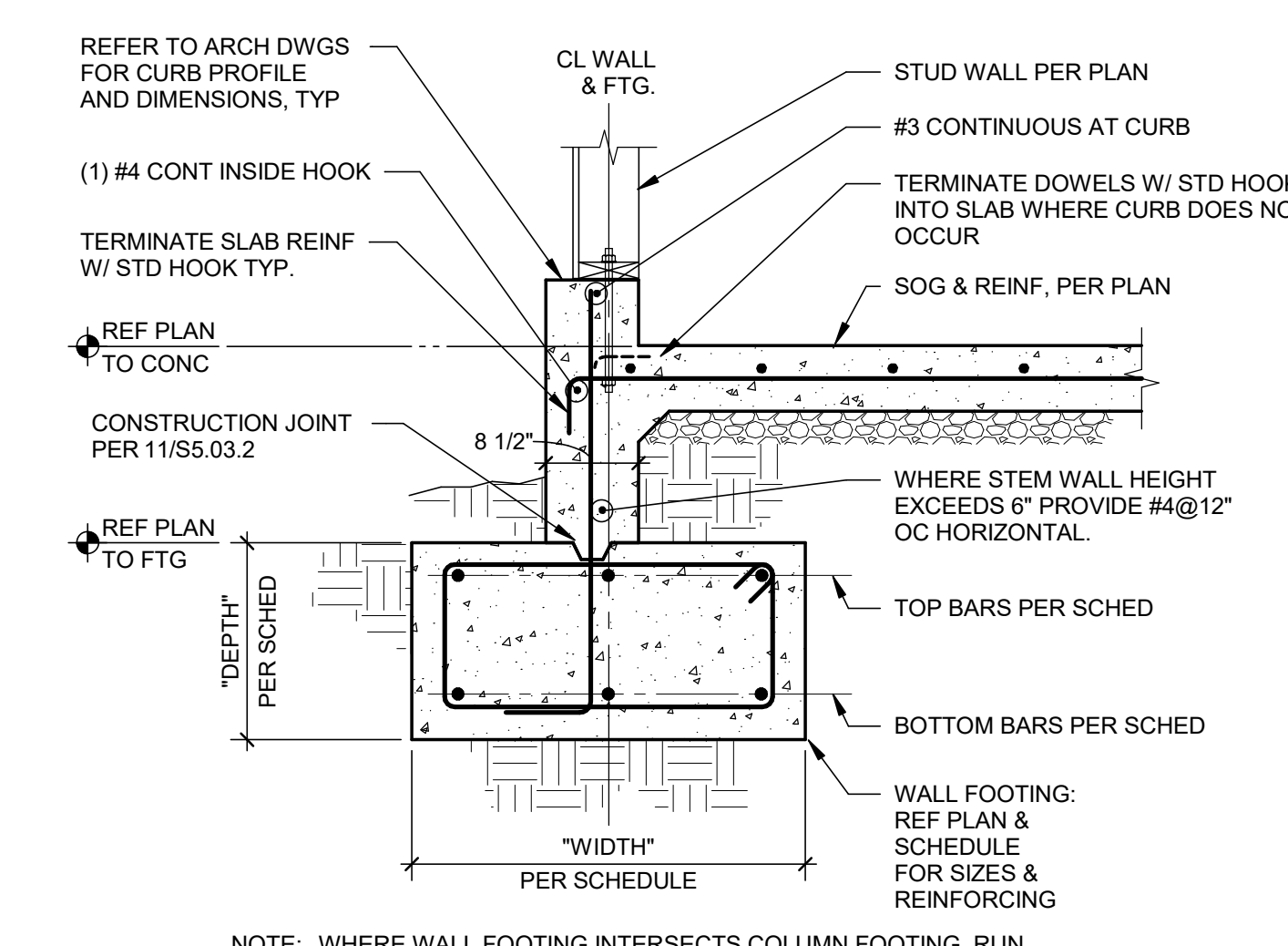
| WALL FOOTING | WIDTH | DEPTH | TOP BARS | BOTTOM BARS | TIES | REMARKS |
|--------------|-------|-------|----------|-------------|-------------|---------|
| WF-2 | 2'-0" | 1'-6" | (4)-#5 | (4)-#5 | #4 @ 12" OC | |
| WF-3 | 3'-0" | 1'-6" | (4)-#6 | (4)-#6 | #5 @ 12" OC | |
| WF-3A | 3'-0" | 1'-8" | (4)-#6 | (4)-#6 | #5 @ 12" OC | |
| WF-4 | 4'-0" | 1'-6" | (4)-#7 | (4)-#7 | #5 @ 9" OC | |

1 WALL FOOTING SCHEDULE
NO SCALE

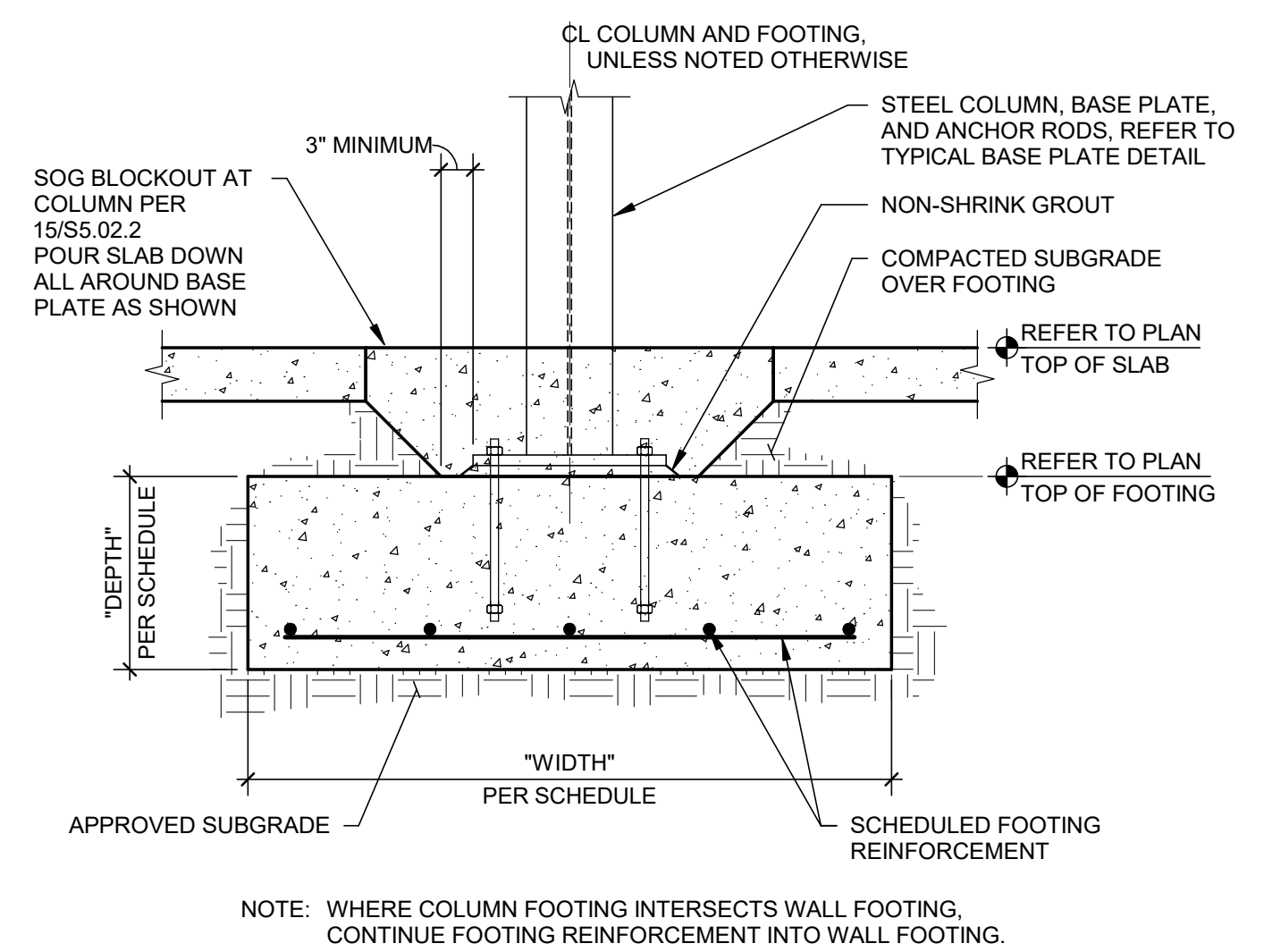
SPREAD FOOTING SCHEDULE

| MARK | PLAN WIDTH | PLAN LENGTH | DEPTH | REINFORCEMENT EACH WAY |
|------|------------|-------------|-------|------------------------|
| F3 | 3'-0" | 3'-0" | 1'-3" | (5)-#5 TOP&BOT |
| F5 | 5'-0" | 5'-0" | 1'-6" | (6)-#6 TOP&BOT |

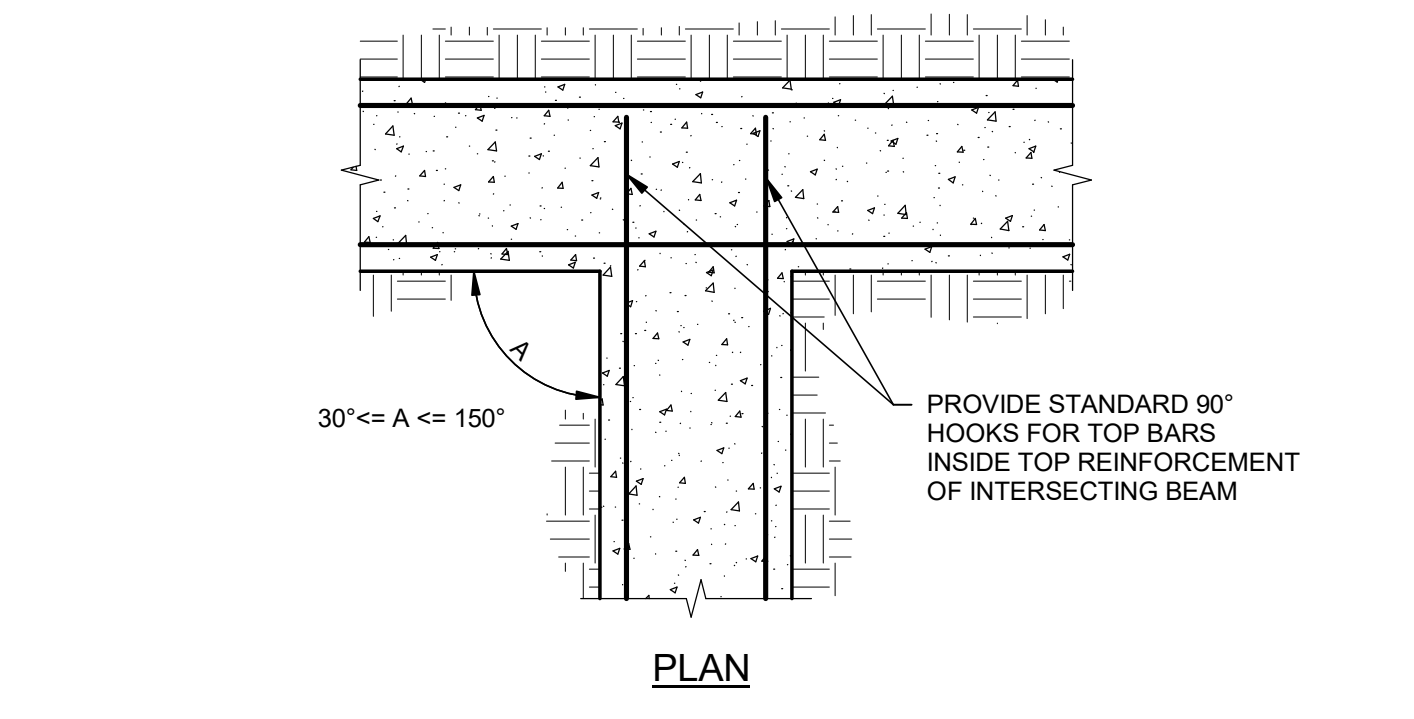
6 SPREAD FOOTING SCHEDULE
NO SCALE



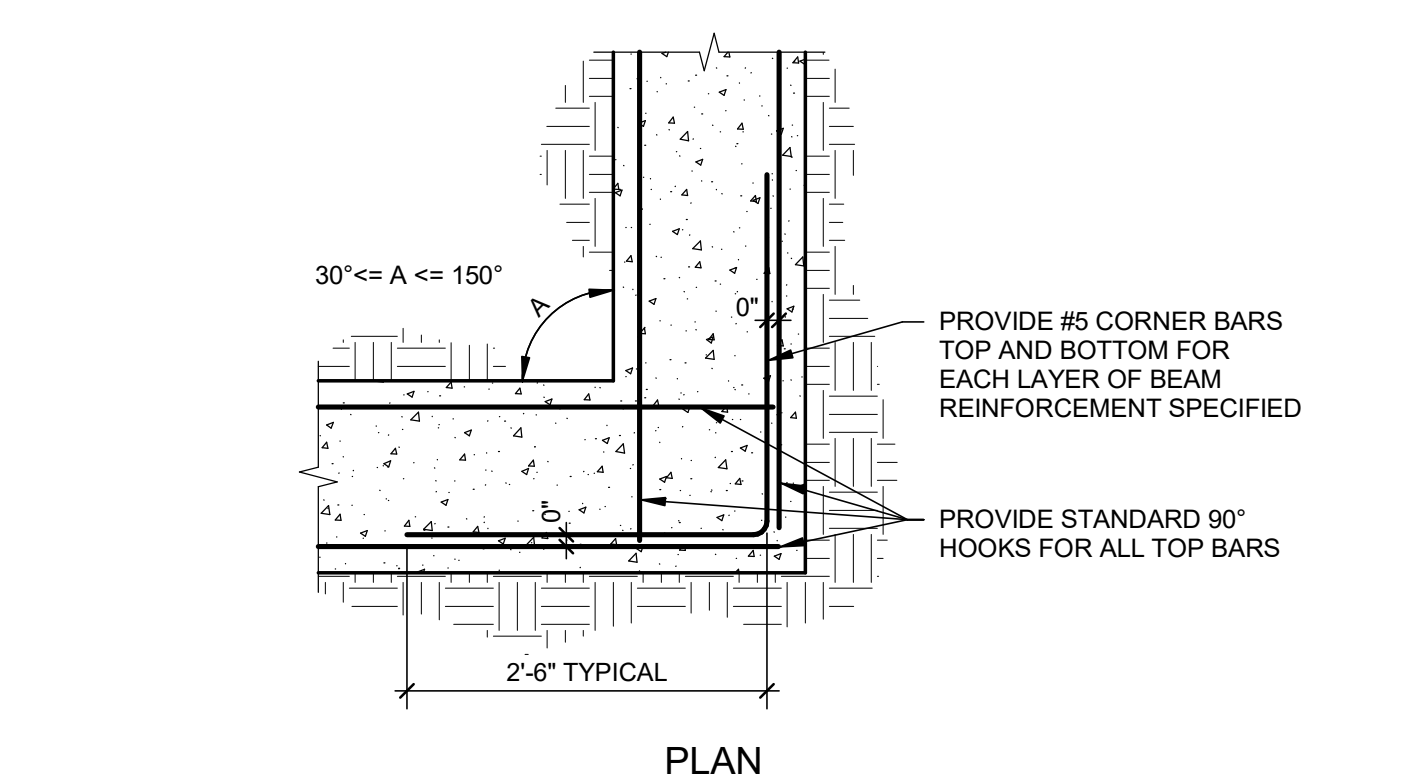
2 TYPICAL EXTERIOR WALL FOOTING
3/4" = 1'-0"



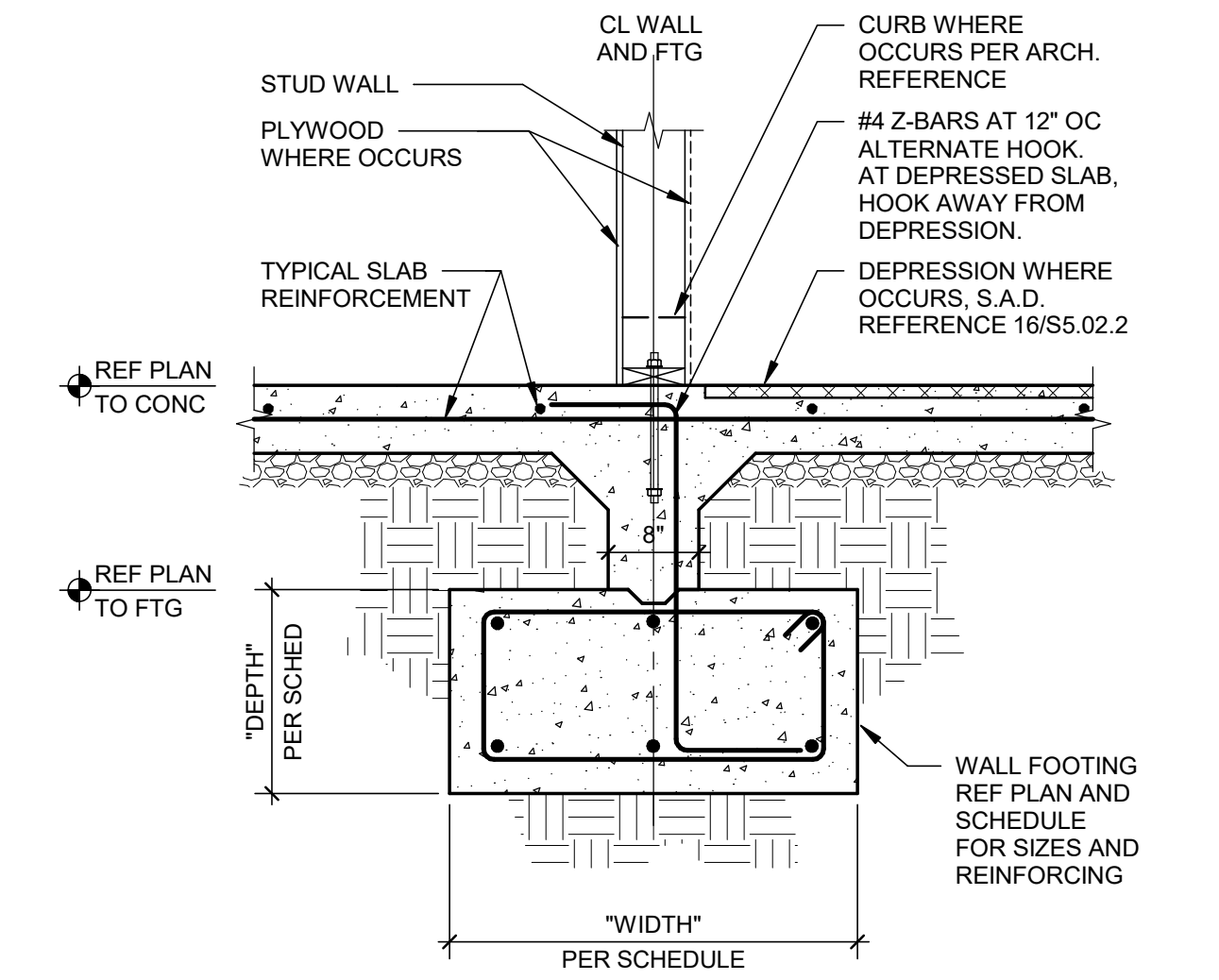
7 TYPICAL STEEL COLUMN ON SPREAD FOOTING
3/4" = 1'-0"



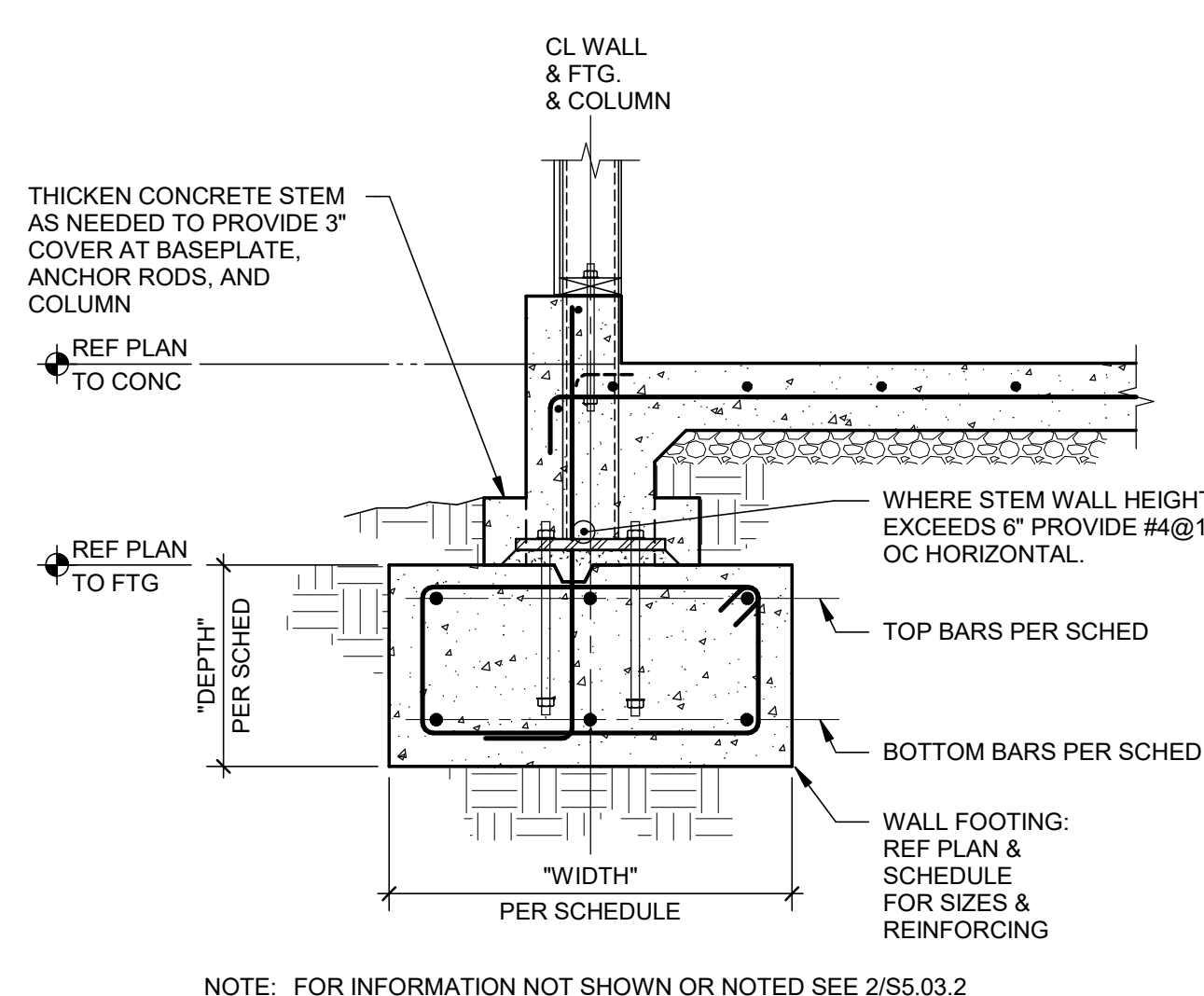
12 TYPICAL GRADE BEAM OR WALL FOOTING REINFORCEMENT AT INTERSECTION
NO SCALE



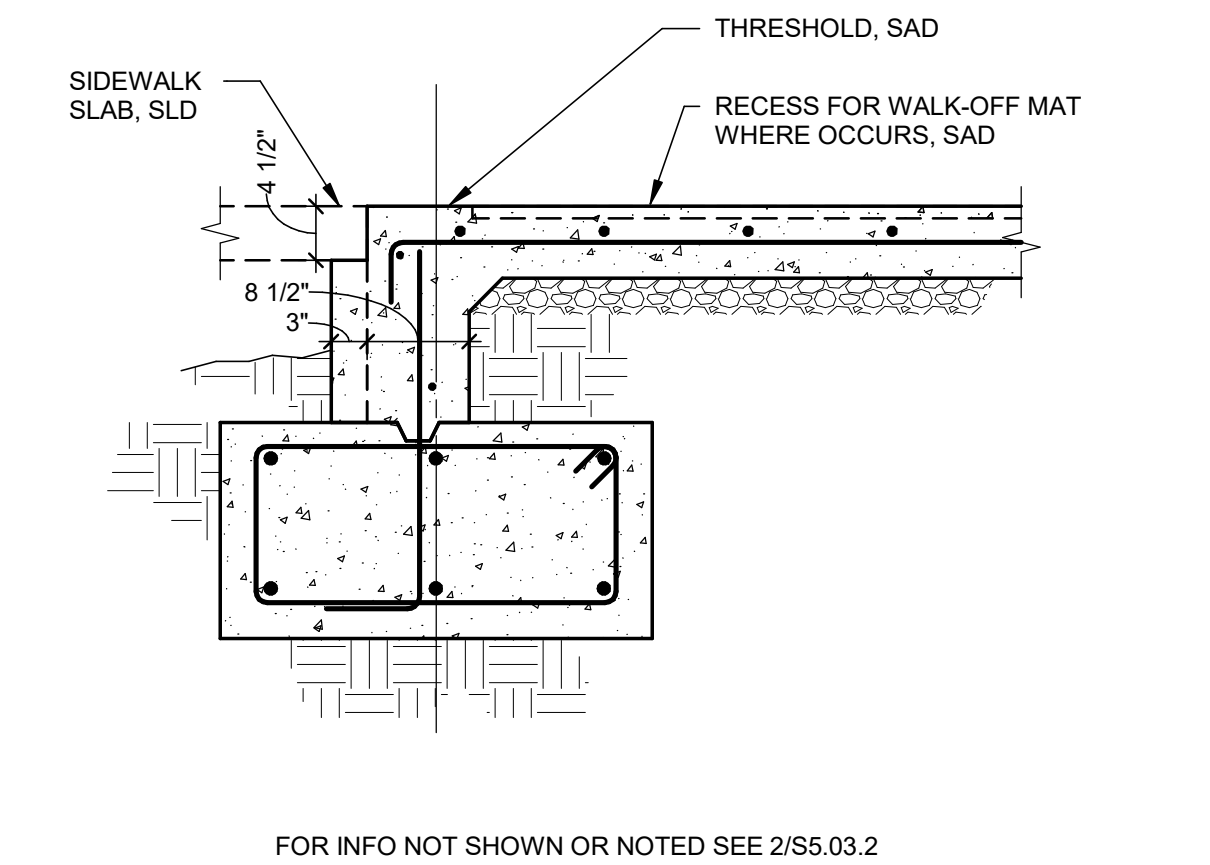
17 TYPICAL GRADE BEAM OR WALL FOOTING REINFORCEMENT AT CORNER
NO SCALE



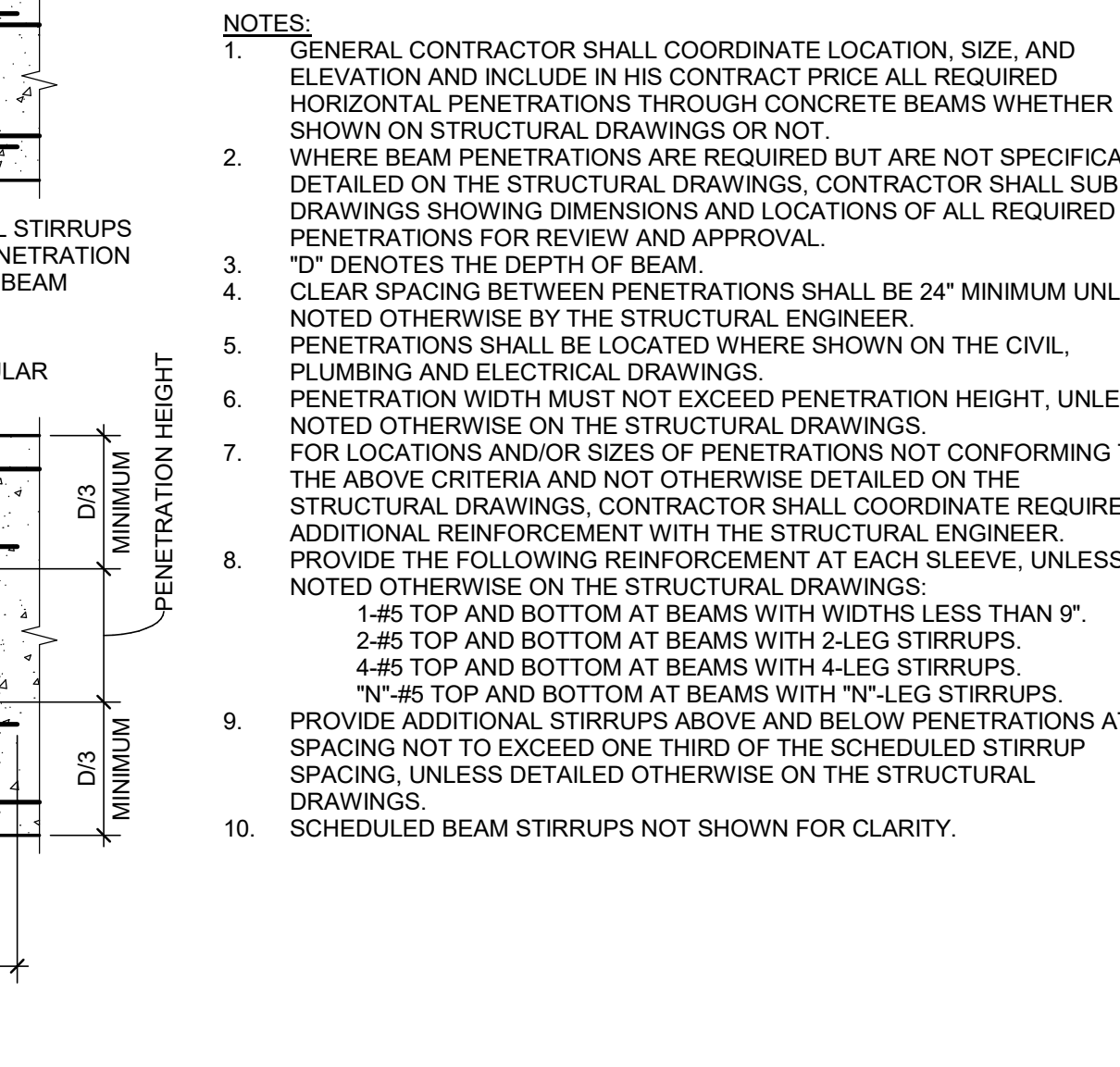
3 TYPICAL INTERIOR WALL FOOTING
3/4" = 1'-0"



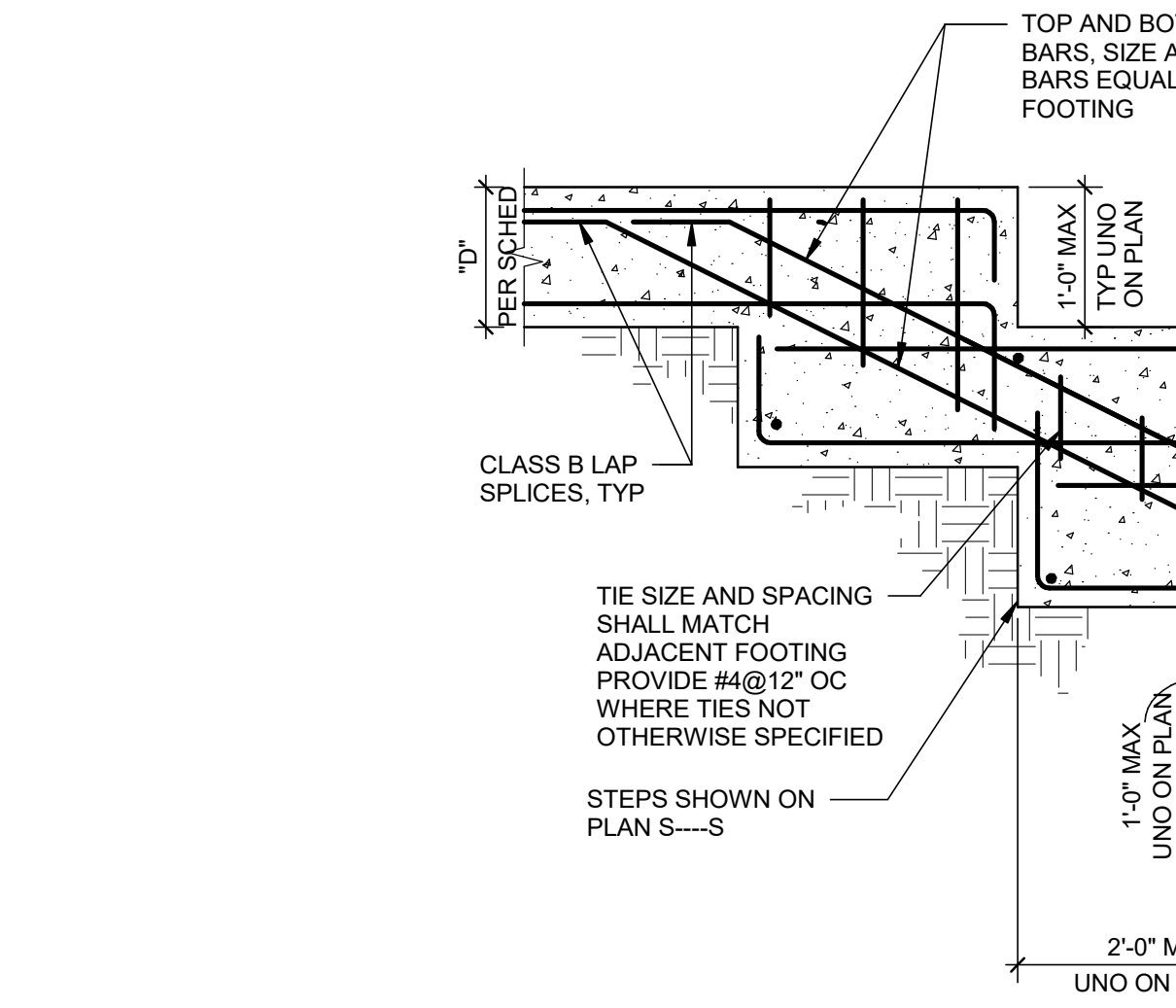
8 TYPICAL HSS COLUMN IN STUD WALL
3/4" = 1'-0"



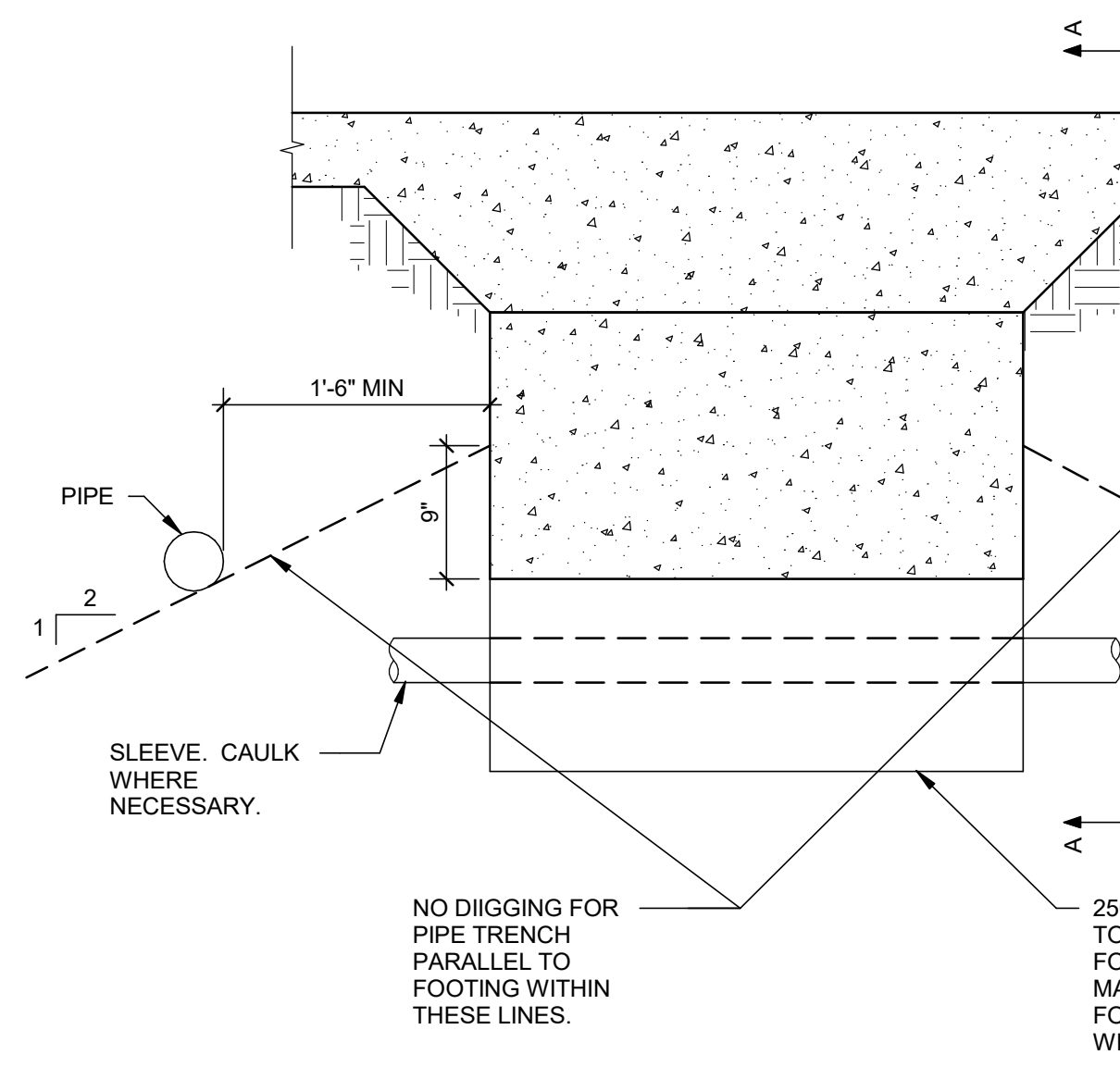
4 TYPICAL FOOTING AT DOOR THRESHOLD
3/4" = 1'-0"



10 TYPICAL HORIZONTAL PENETRATION IN GRADE BEAM AND CONTINUOUS FOOTING
NO SCALE



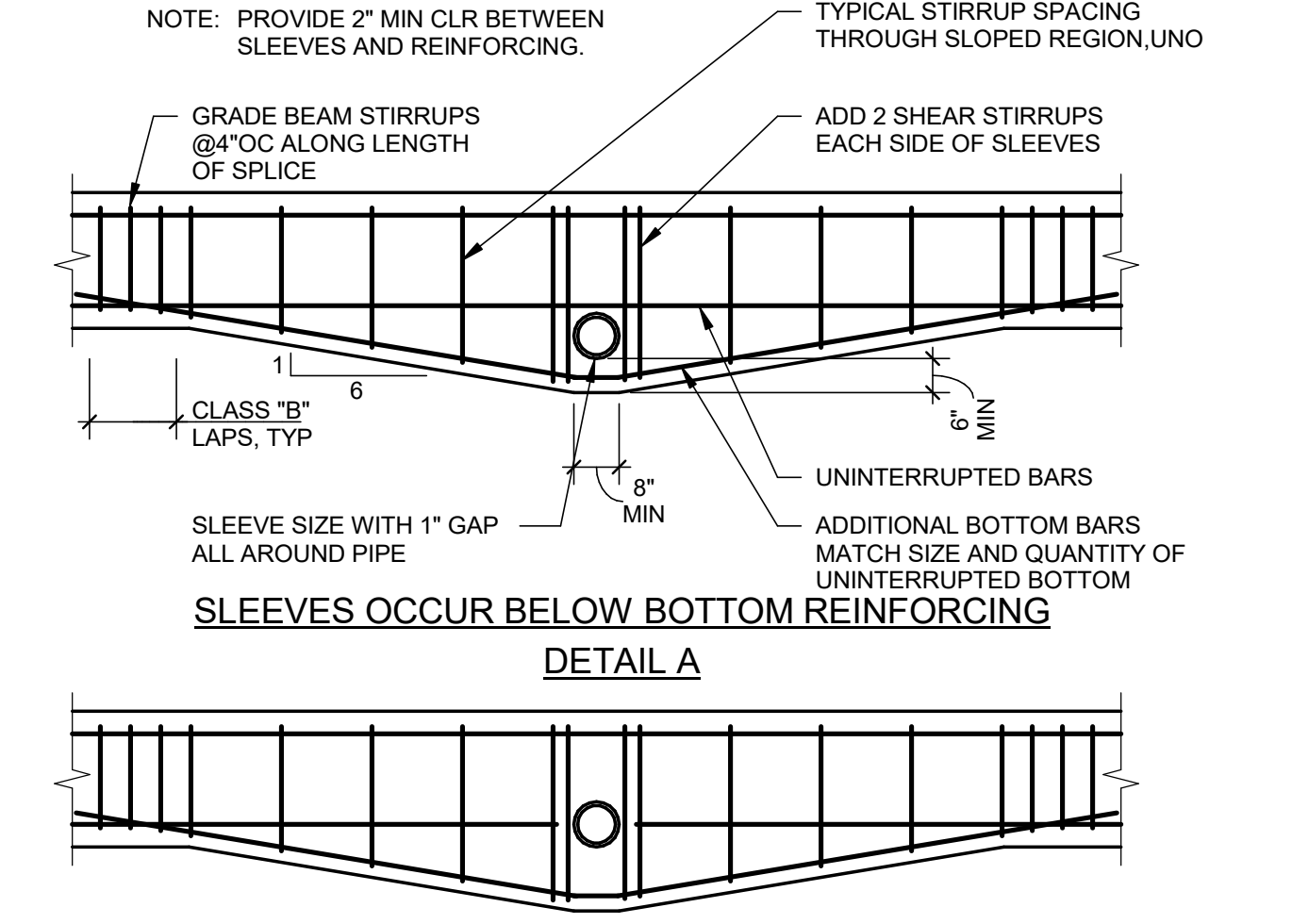
15 TYPICAL SLEEVE THROUGH FOOTING AT BOTTOM REINFORCING
1/2" = 1'-0"



19 TYPICAL PIPE CLEARANCE AT FOOTINGS
1" = 1'-0"

14 TYPICAL STEPS IN FOOTING
NO SCALE

10 TYPICAL HORIZONTAL PENETRATION IN GRADE BEAM AND CONTINUOUS FOOTING
NO SCALE

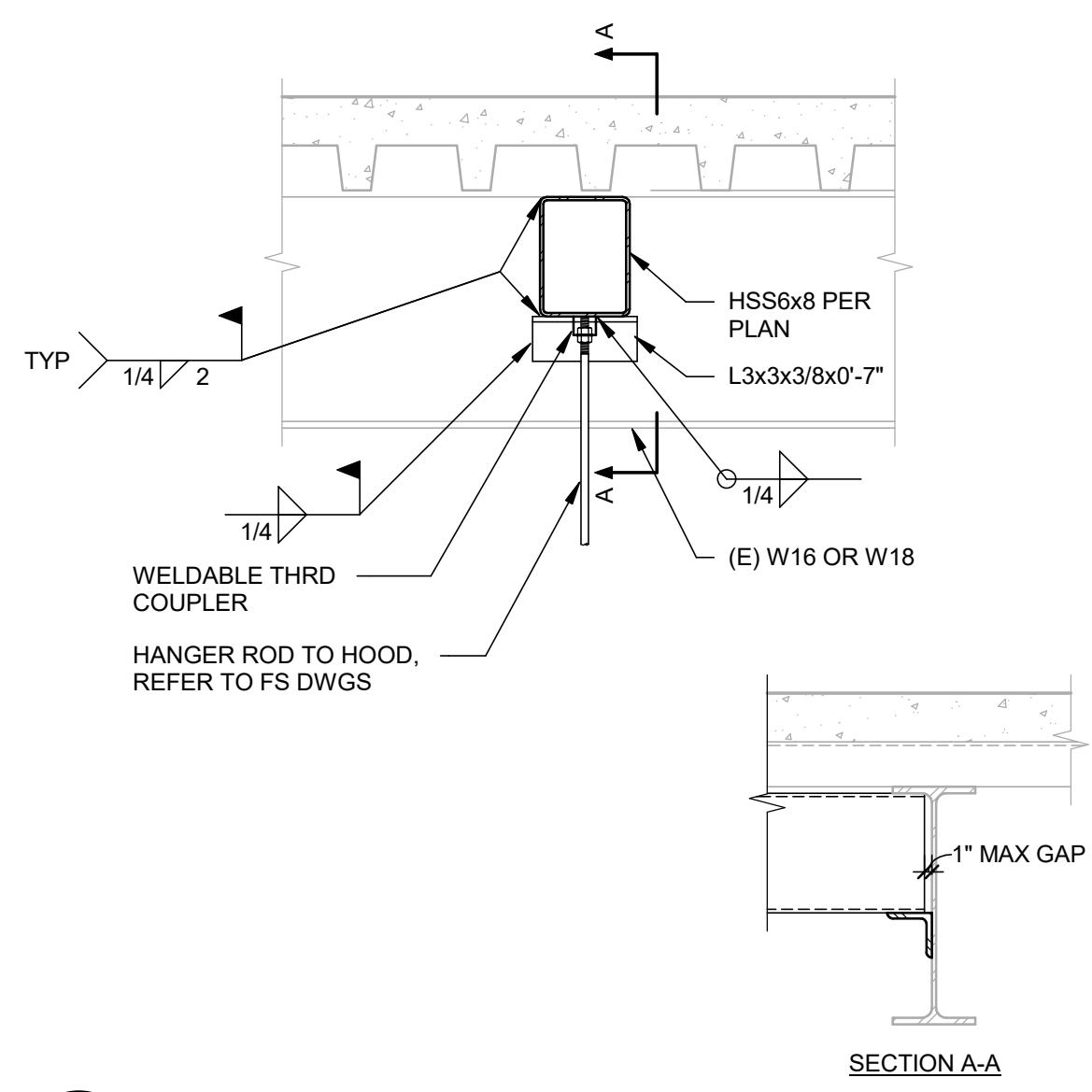


10 TYPICAL HORIZONTAL PENETRATION IN GRADE BEAM AND CONTINUOUS FOOTING
NO SCALE

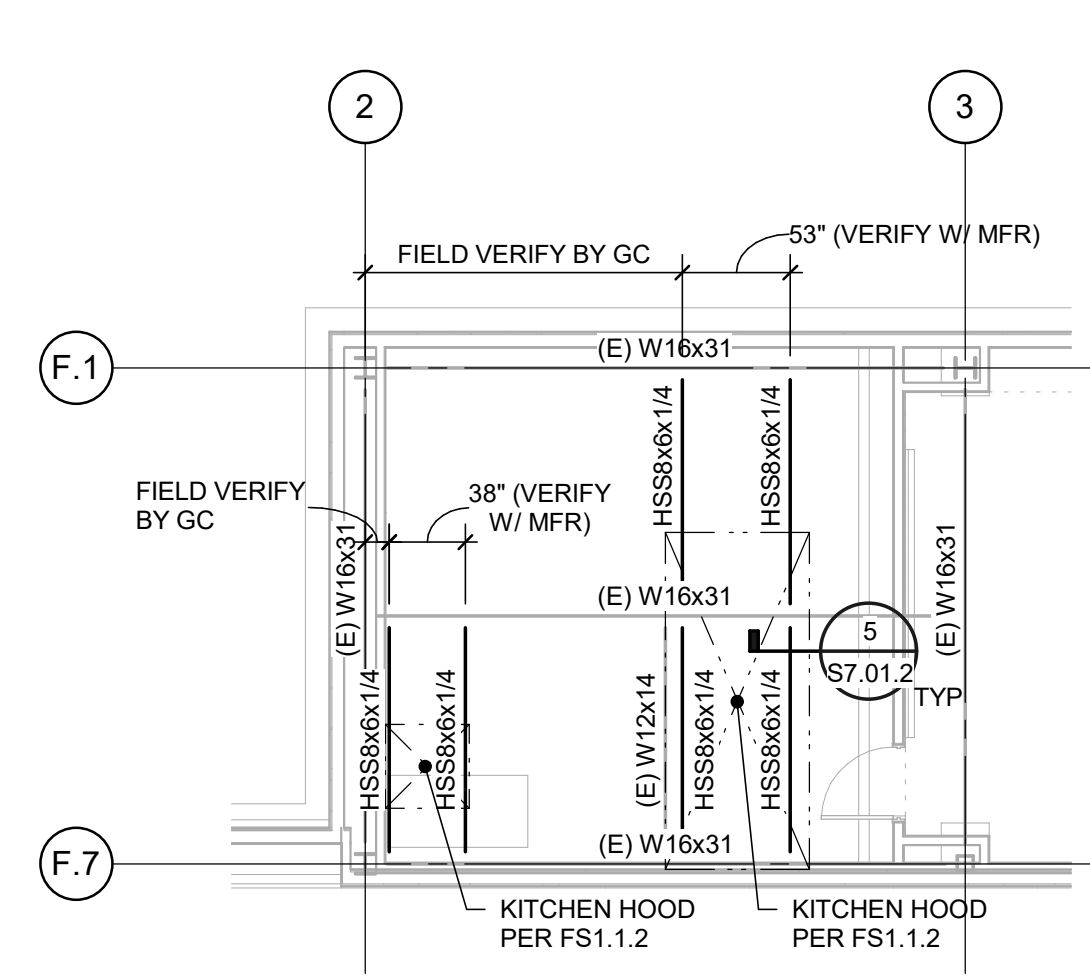
15 TYPICAL SLEEVE THROUGH FOOTING AT BOTTOM REINFORCING
1/2" = 1'-0"



15 TYPICAL SLEEVE THROUGH FOOTING AT BOTTOM REINFORCING
1/2" = 1'-0"

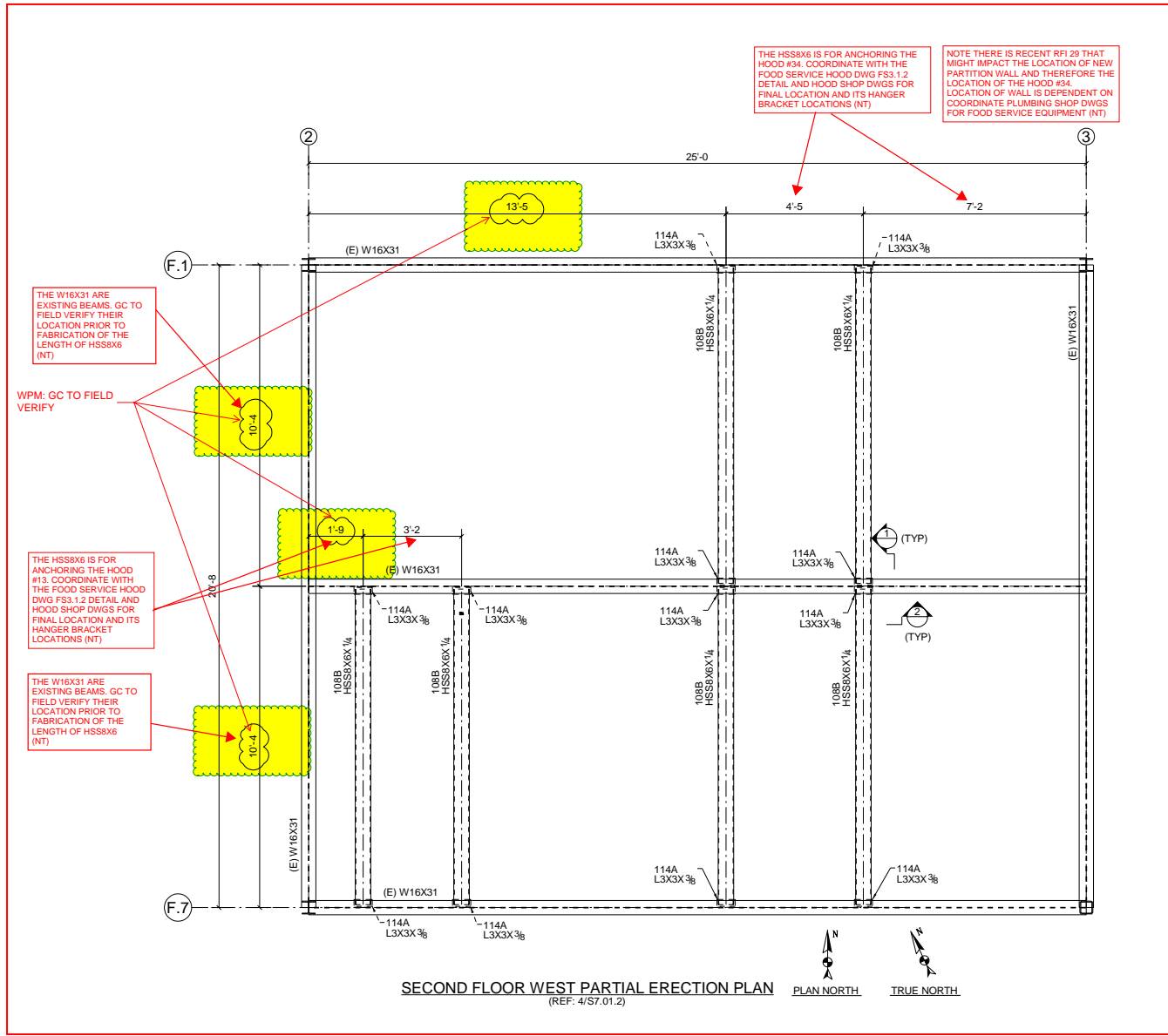


5 DETAIL
1" = 1'-0"

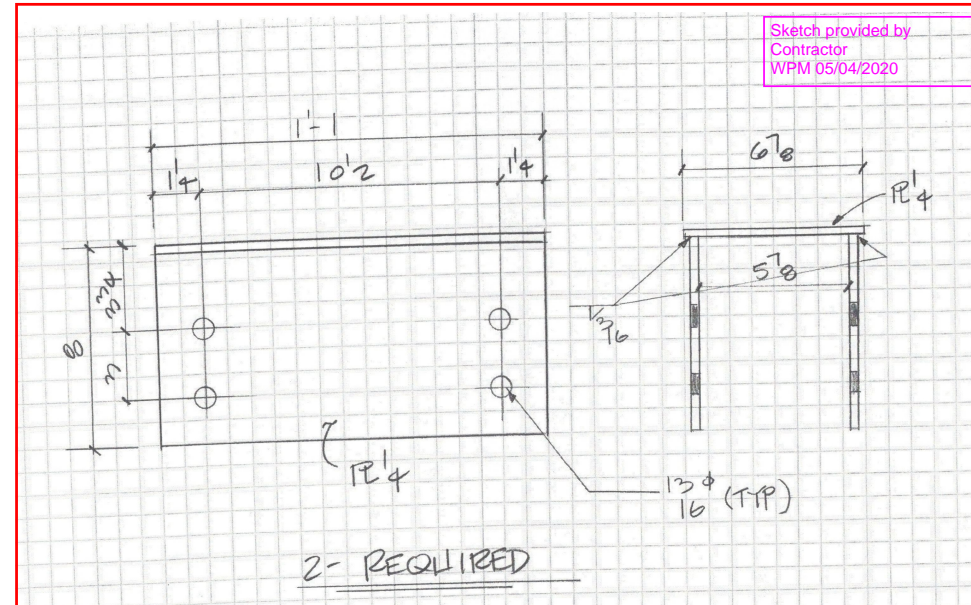


4 SECOND FLOOR - WEST PARTIAL PLAN
1/8" = 1'-0"

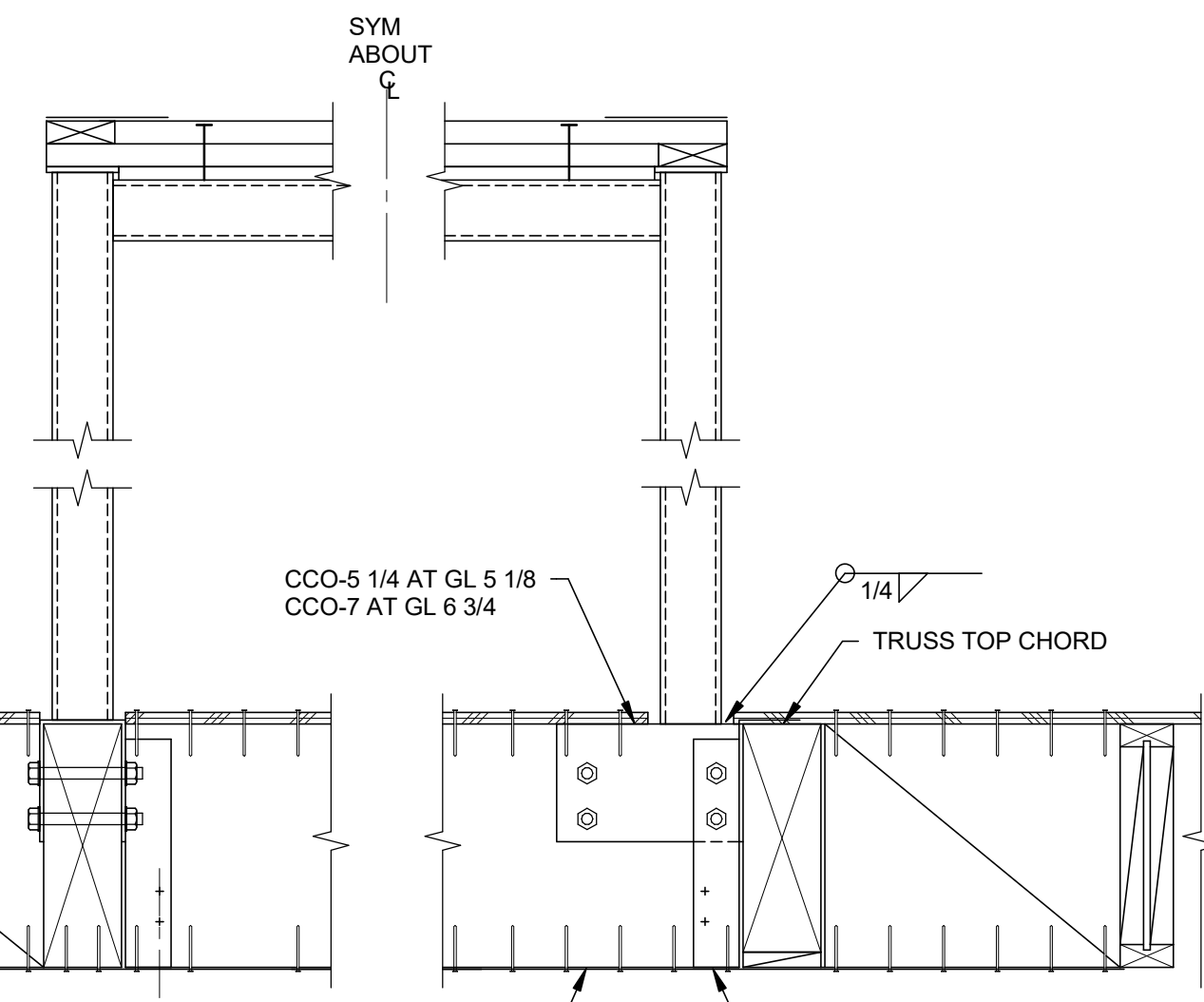
RF#44 - FRAMING
REFER TO RF#44 FOR
ADDITIONAL INFO



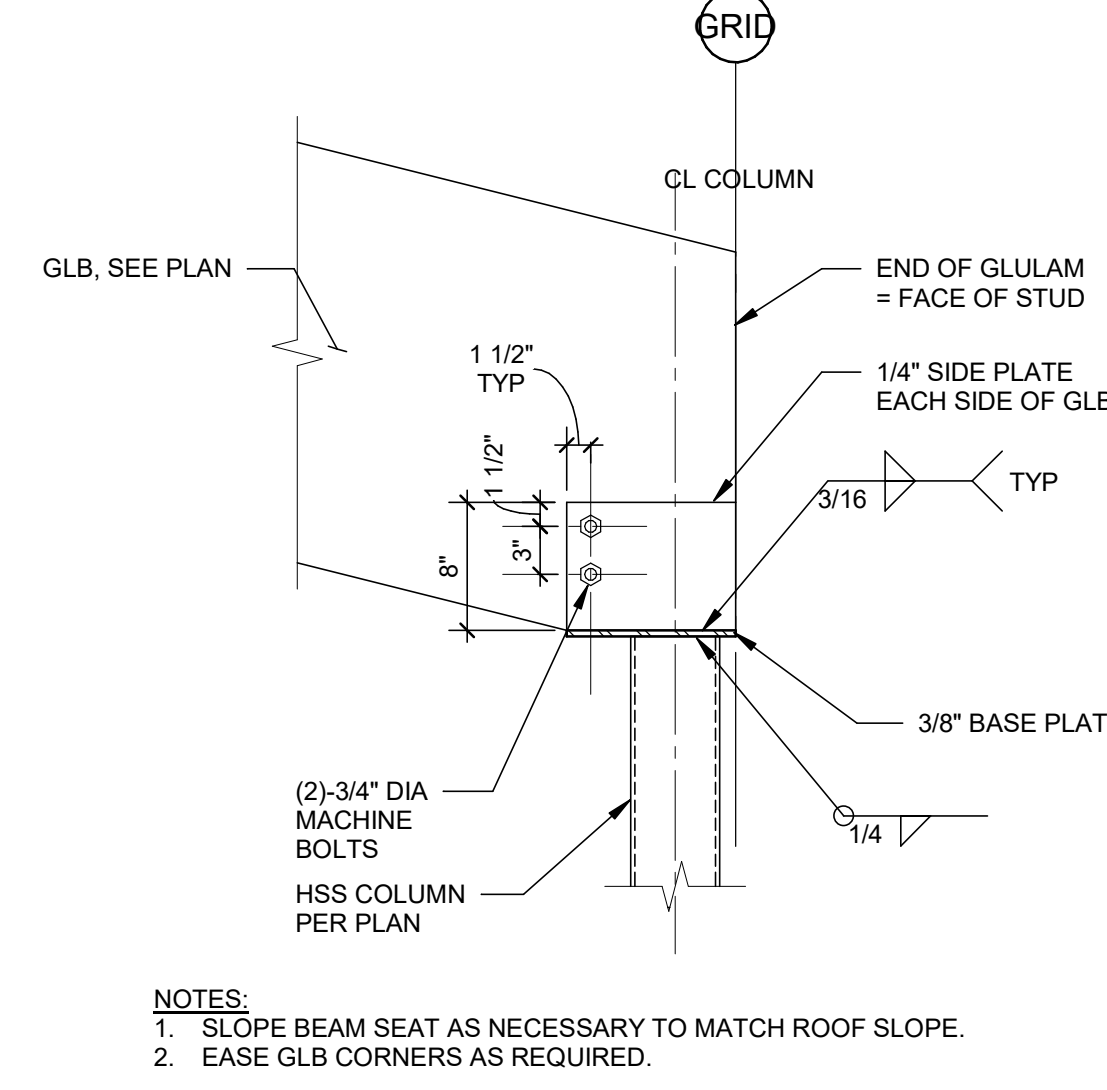
RF#71 - SHOP FAB STEEL
SADDLE IN LIEU OF CCC



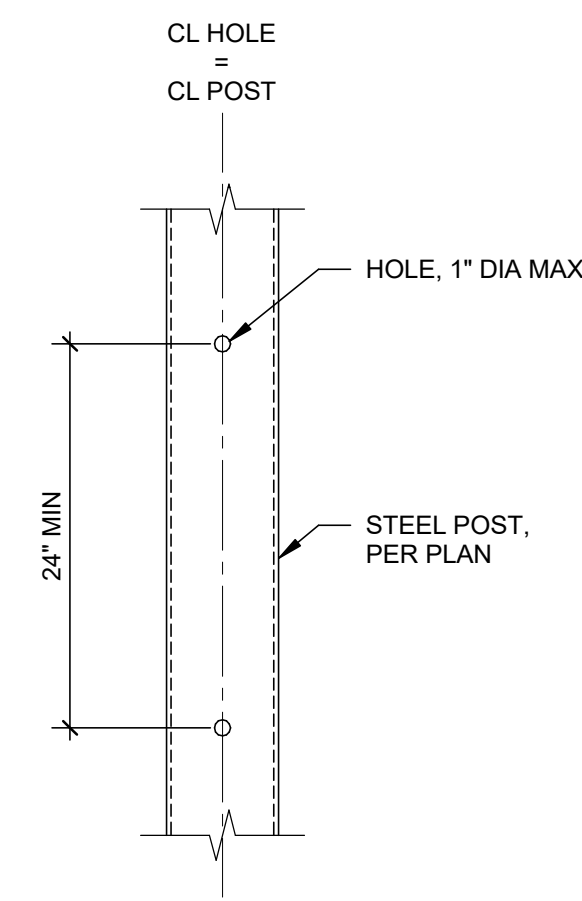
14 SKYLIGHT FRAME AT TRUSS
1" = 1'-0"



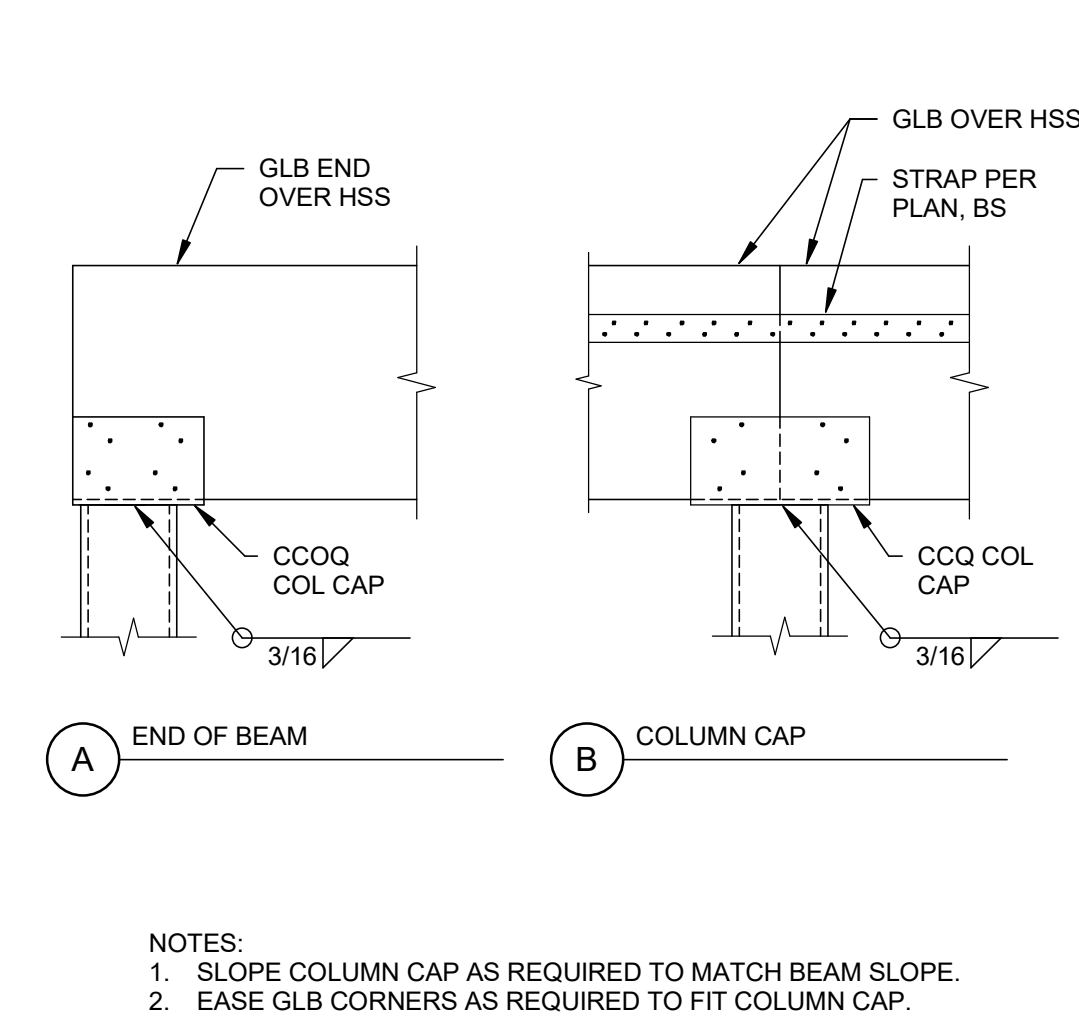
3 GLB TO COLUMN CONNECTION
1" = 1'-0"



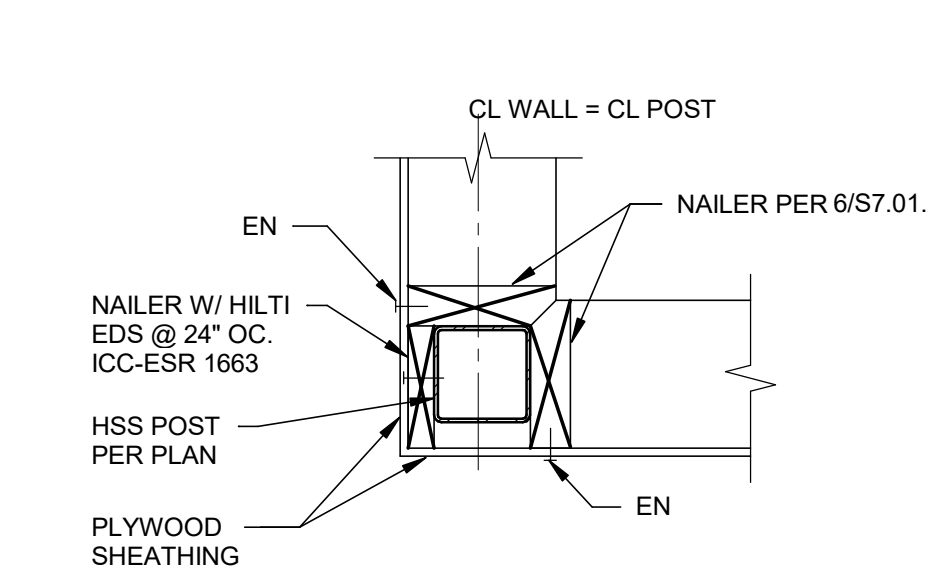
8 TYPICAL PENETRATION THROUGH
STEEL POST
1" = 1'-0"



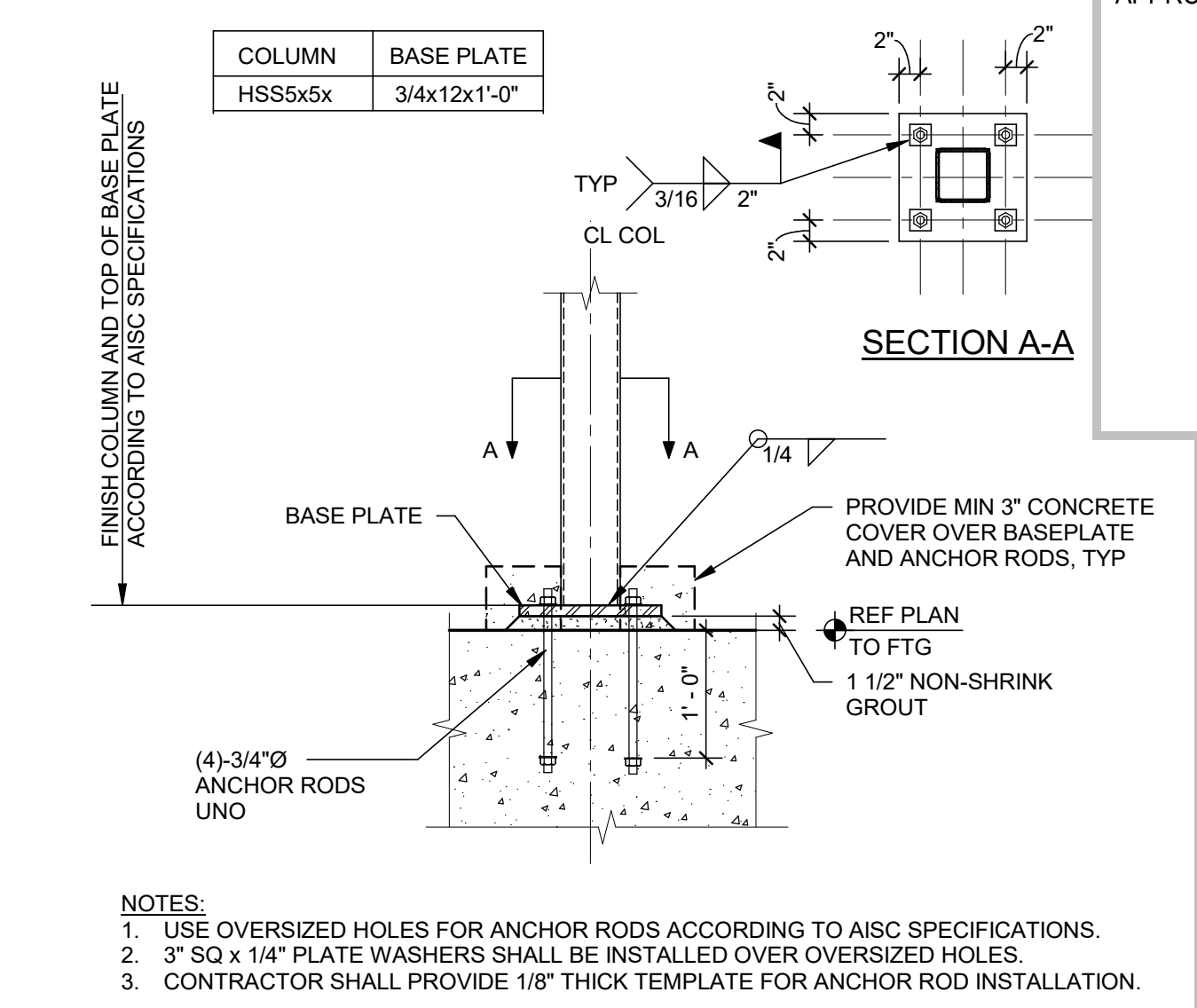
2 GLB TO COLUMN CONNECTION
1" = 1'-0"



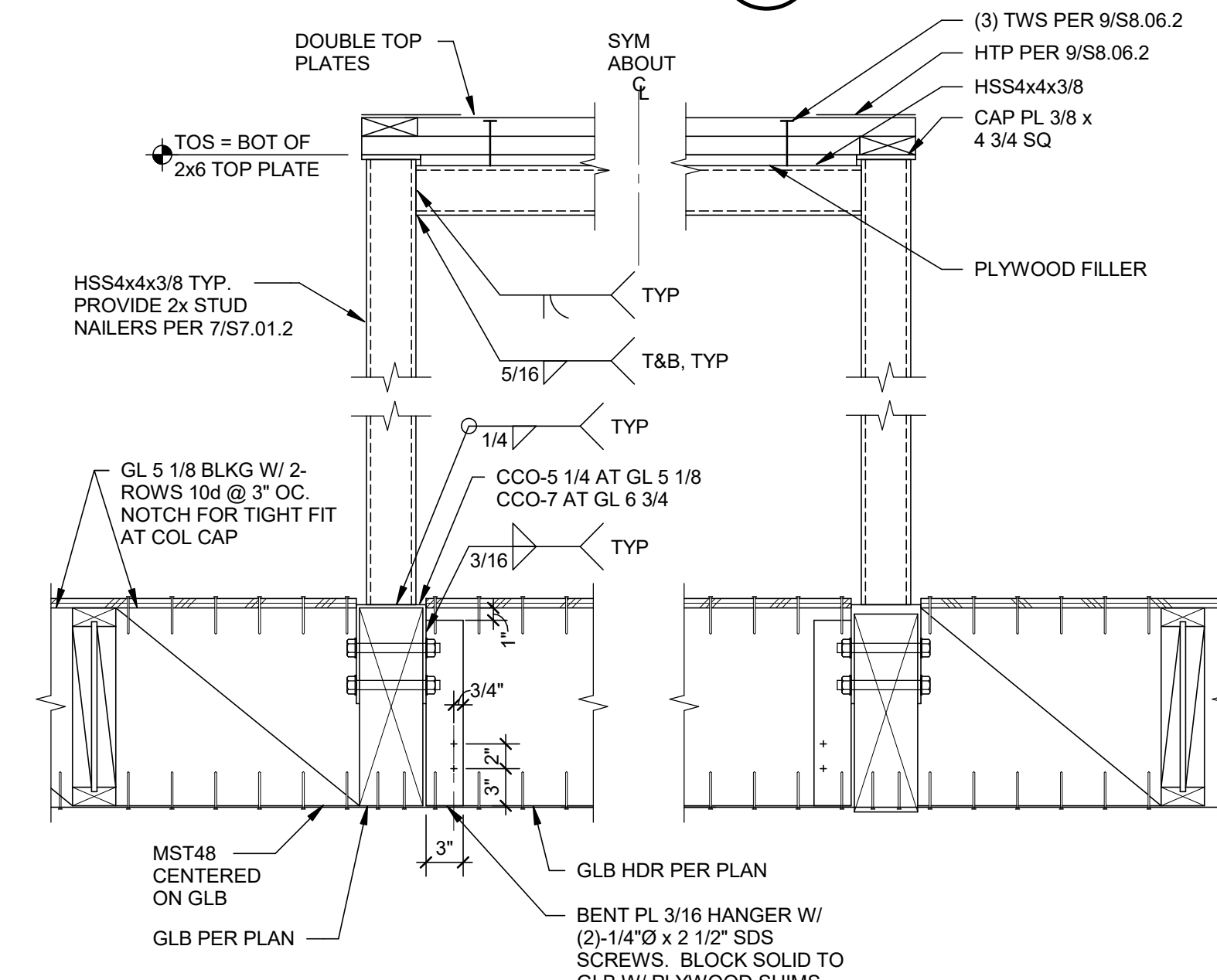
7 TYPICAL NAILER AT CORNER POST
1" = 1'-0"



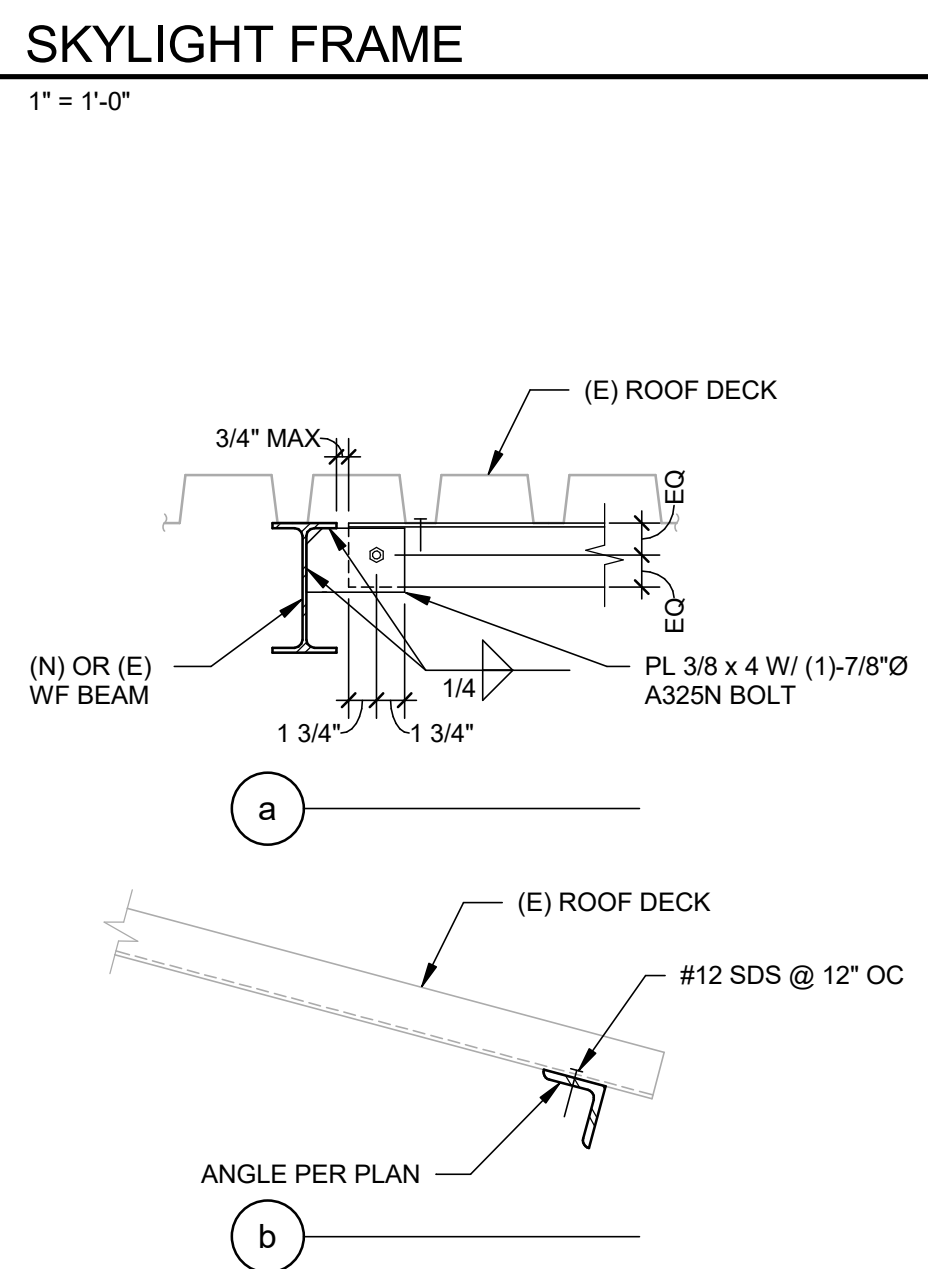
1 STEEL COLUMN BASE PLATE CONNECTION
3/4" = 1'-0"



6 TYPICAL NAILER CONNECTION
TO STEEL POST
1 1/2" = 1'-0"

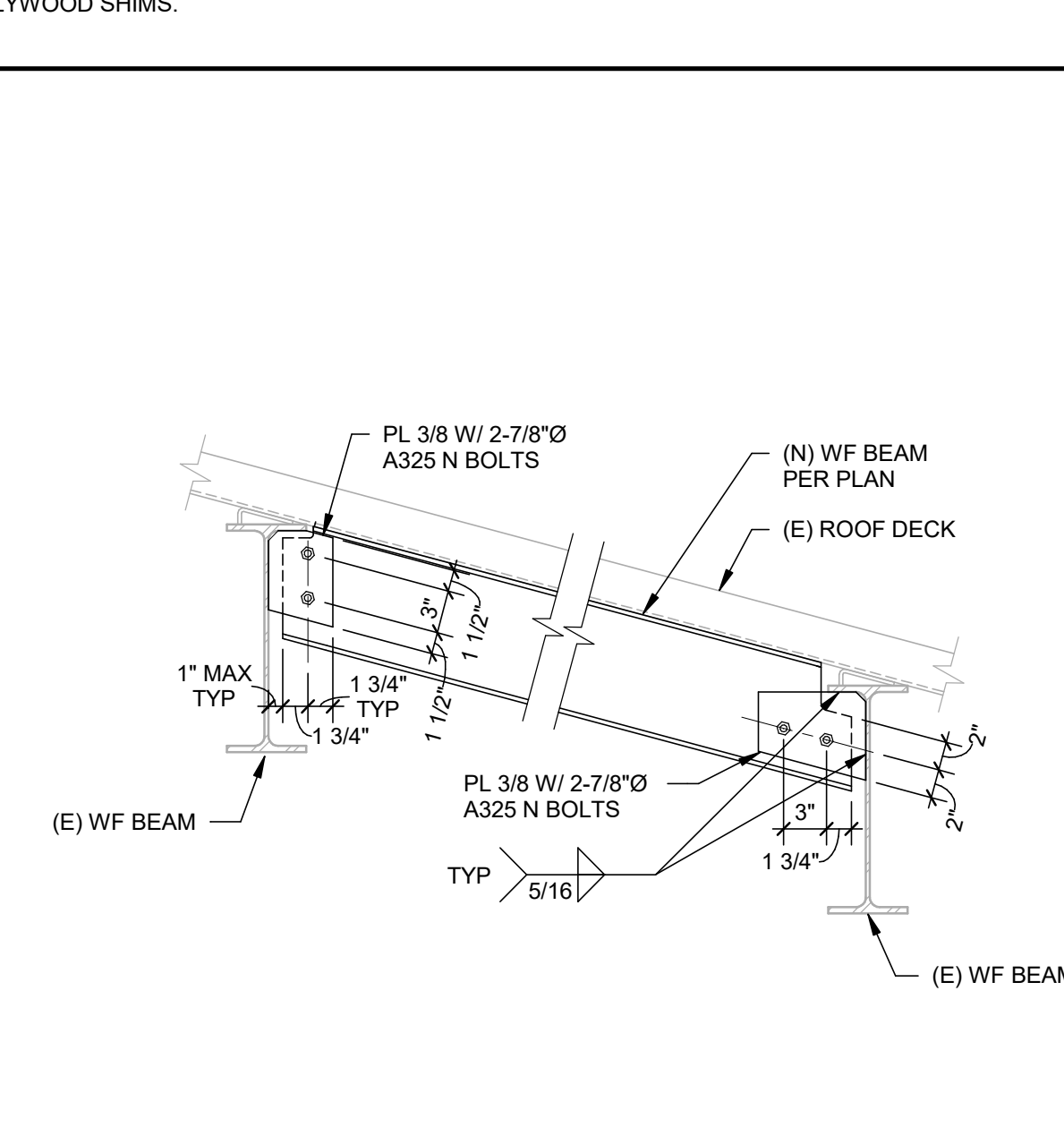


12 SKYLIGHT FRAME
1" = 1'-0"

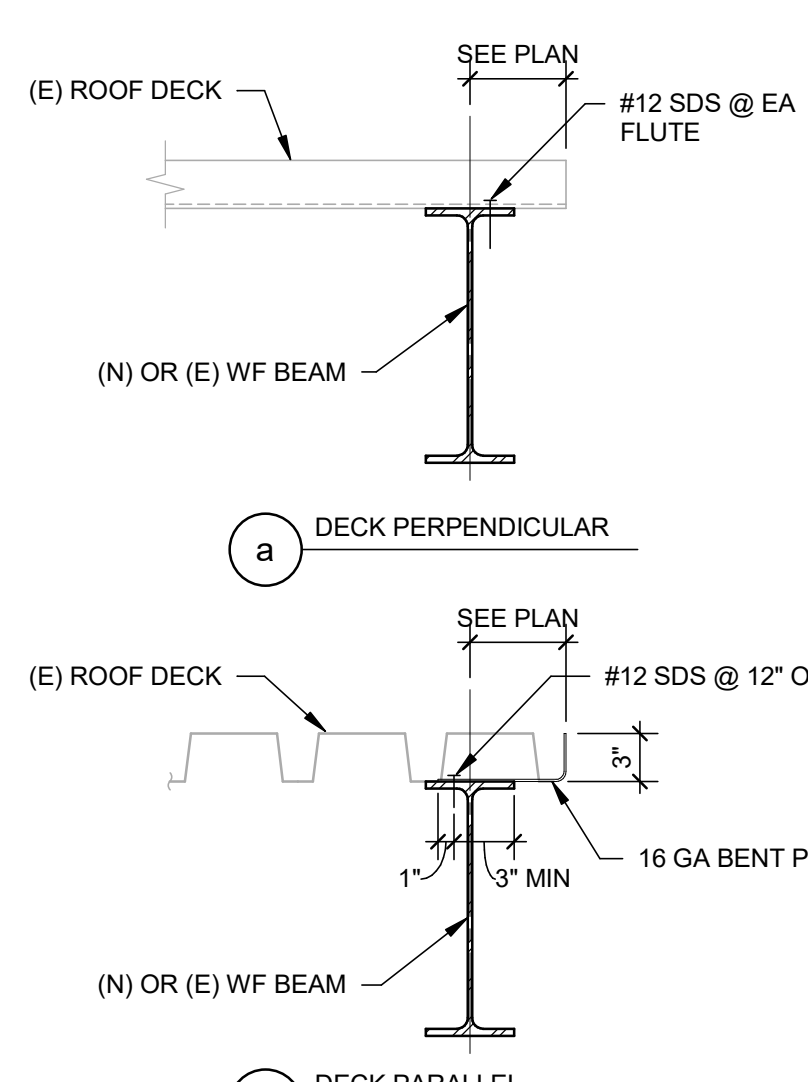


17 TYPICAL ANGLE SUPPORT AT NEW ROOF
OPENING
1" = 1'-0"

16 TYPICAL SLOPING BEAM CONNECTION
1" = 1'-0"



18 TYPICAL EDGE OF ROOF DECK AT
NEW OPENINGS
1" = 1'-0"



APPROVALS

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SEAL

REGISTERED PROFESSIONAL ENGINEER
S5722
STRUCTURAL
STATE OF CALIFORNIA

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San Francisco, CA 94105
tel 415.963.6300

PROJECT TITLE

**CONTRA COSTA
CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION &
RENOVATION**

1690 Watermill Rd.
San Ramon, CA 94582

ISSUE TITLE

**INCREMENT 2 -
AS-BUILT - FINAL**

RECORD SET:

THESE DRAWINGS HAVE BEEN PREPARED FROM ADDENDUMS, CCD'S, ASIS AND SELECT RFIS OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM. ONLY A SELECT FEW AS-BUILTS WERE SUBMITTED.

| | |
|-----------------------|--------------------|
| ISSUE DATE | 08/23/2023 |
| NOLL & TAM JOB NUMBER | 21630 |
| REVISIONS | DATE DESCRIPTION |

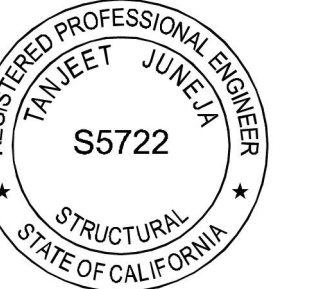
SHEET TITLE

STEEL DETAILS

SHEET NUMBER

S7.01.2

SEAL



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PROJECT TITLE

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ISSUE TITLE

**INCREMENT 2 -
AS-BUILT - FINAL**

ISSUE DATE 08/23/2023

NOLL & TAM JOB NUMBER 21630

| REVISIONS | DATE | DESCRIPTION |
|-----------|------|-------------|
| | | |

SHEET TITLE

**TYPICAL WOOD
DETAILS**

SHEET NUMBER

S8.01.2

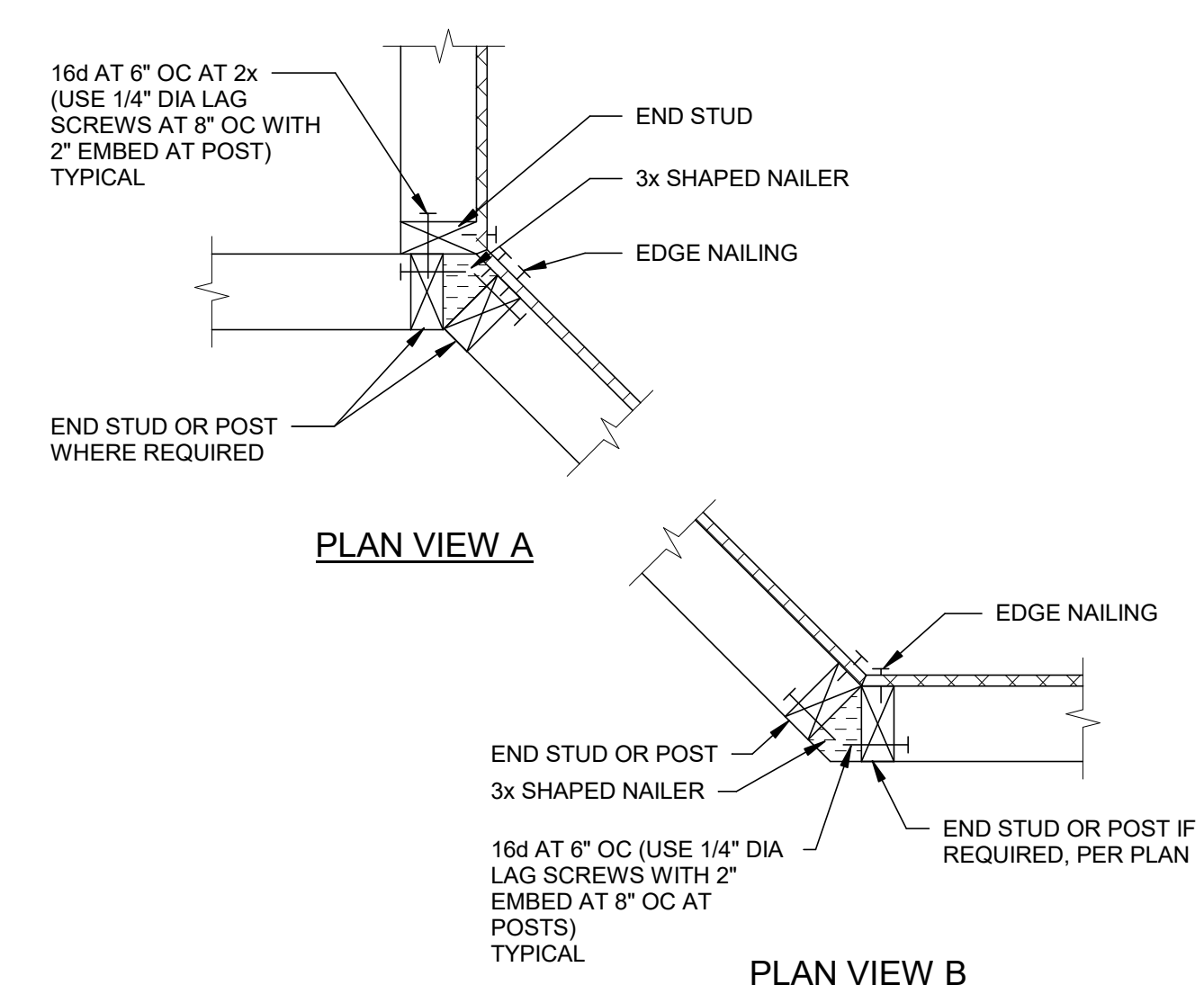
| DESCRIPTION OF BUILDING ELEMENTS | NUMBER AND TYPE OF FASTENER | SPACING AND LOCATION |
|---|--|--|
| ROOF | | |
| 1. BLOCKING BETWEEN CEILING JOISTS, RAFTERS OR TRUSSES TO TOP PLATE OR OTHER FRAMING BELOW | 3-8d COMMON (2 1/2" x 0.131"); OR 3-10d BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN | EACH END, TOENAIL |
| BLOCKING BETWEEN RAFTERS OR TRUSS NOT AT THE WALL TOP PLATE, TO RAFTER OR TRUSS | 2-8d COMMON (2 1/2" x 0.131"); OR 2-3" x 0.131" NAILS; OR 2-3" 14 GAGE STAPLES | EACH END, TOENAIL |
| FLAT BLOCKING TO TRUSS AND WEB FILLER | 16d COMMON (3 1/2" x 0.162") @ 6" O.C. 3" x 0.131" NAILS @ 6" O.C. 3" 14 GAGE STAPLES @ 6" O.C. | FACE NAIL |
| 2. CEILING JOISTS TO TOP PLATE | 3-8d COMMON (2 1/2" x 0.131"); OR 3-10d BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN | EACH JOIST, TOENAIL |
| 3. CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS (NO THRUST) (SEE IBC SECTION 2308.7.3.1, TABLE 2308.7.3.1) | 3-16d COMMON (3 1/2" x 0.162"); OR 4-10d BOX (3" x 0.128"); OR 4-3" x 0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN | FACE NAIL |
| 4. CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT) (SEE IBC SECTION 2308.7.3.1, TABLE 2308.7.3.1) | PER TABLE 2308.7.3.1 | FACE NAIL |
| 5. COLLAR TIE TO RAFTER | 3-10d COMMON (3" x 0.148"); OR 4-10d BOX (3" x 0.128"); OR 4-3" x 0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN | FACE NAIL |
| 6. RAFTER OR ROOF TRUSS TO TOP PLATE (SEE IBC SECTION 2308.7.5, TABLE 2308.7.5) | 3-10d COMMON (3" x 0.148"); OR 3-16d BOX (3 1/2" x 0.135"); OR 4-10d BOX (3" x 0.128"); OR 4-3" x 0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN | TOENAIL (c) |
| 7. ROOF RAFTERS TO RIDGE VALLEY OR HIP RAFTERS; OR ROOF RAFTER TO 2-INCH RIDGE BEAM | 3-10d COMMON (3" x 0.148"); OR 3-16d BOX (3 1/2" x 0.135"); OR 4-10d BOX (3" x 0.128"); OR 4-3" x 0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN | TOENAIL |
| WALL | | |
| 8. STUD TO STUD (NOT AT BRACED WALL PANELS) | 16d COMMON (3 1/2" x 0.162"); OR 10d BOX (3" x 0.128"); OR 3" x 0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN | 24" O.C. FACE NAIL 16" O.C. FACE NAIL |
| 9. STUD TO STUD AND BUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL PANELS) | 16d COMMON (3 1/2" x 0.162"); OR 16d BOX (3 1/2" x 0.135"); OR 3" x 0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN | 16" O.C. FACE NAIL 12" O.C. FACE NAIL |
| 10. BUILT-UP HEADER (2" TO 2" HEADER) | 16d COMMON (3 1/2" x 0.162"); OR 16d BOX (3 1/2" x 0.135") | 16" O.C. EACH EDGE, FACE NAIL 12" O.C. EACH EDGE, FACE NAIL |
| 11. CONTINUOUS HEADER TO STUD | 4-8d COMMON (2 1/2" x 0.131"); OR 4-10d BOX (3" x 0.128"); OR 16d COMMON (3 1/2" x 0.162") | TOENAIL 16" O.C. FACE NAIL |
| 12. TOP PLATE TO TOP PLATE | 10d BOX (3" x 0.128"); OR 3" x 0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN | 12" O.C. FACE NAIL |
| 13. TOP PLATE TO TOP PLATE, AT END JOINTS | 8-16d COMMON (3 1/2" x 0.162"); OR 12-10d BOX (3" x 0.128"); OR 12-3" x 0.131" NAILS; OR 12-3" 14 GAGE STAPLES, 7/16" CROWN | EACH SIDE OF END JOINT, FACE NAIL (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT) |
| 14. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST, OR BLOCKING (NOT AT BRACED WALL PANELS) | 16d COMMON (3 1/2" x 0.162"); OR 16d BOX (3" x 0.135"); OR 3" x 0.131" NAILS; OR 3" 14 GAGE STAPLES, 7/16" CROWN | 16" O.C. FACE NAIL 12" O.C. FACE NAIL |
| 15. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST, OR BLOCKING AT BRACED WALL PANELS | 2-16d COMMON (3 1/2" x 0.162"); OR 3-16d BOX (3 1/2" x 0.135"); OR 4-3" x 0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN | 16" O.C. FACE NAIL |
| 16. STUD TO TOP OR BOTTOM PLATE | 4-8d COMMON (2 1/2" x 0.131"); OR 4-10d BOX (3" x 0.128"); OR 4-3" x 0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN | TOENAIL |
| 17. TOP OR BOTTOM PLATE TO STUD | 2-16d COMMON (3 1/2" x 0.162"); OR 3-10d BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN | END NAIL |
| 18. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS | 2-16d COMMON (3 1/2" x 0.162"); OR 3-10d BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN | FACE NAIL |
| 19. 1" BRACE TO EACH STUD AND PLATE | 2-8d COMMON (2 1/2" x 0.131"); OR 2-10d BOX (3" x 0.128"); OR 2-3" x 0.131" NAILS; OR 2-3" 14 GAGE STAPLES, 7/16" CROWN | FACE NAIL |
| 20. 1" x 6" SHEATHING TO EACH BEARING | 2-8d COMMON (2 1/2" x 0.131"); OR 2-10d BOX (3" x 0.128") | FACE NAIL |
| 21. 1" x 8" AND WIDER SHEATHING TO EACH BEARING | 3-8d COMMON (2 1/2" x 0.131"); OR 3-10d BOX (3" x 0.128") | FACE NAIL |
| FLOOR | | |
| 22. JOIST TO SILL, TOP PLATE OR GIRDER | 3-8d COMMON (2 1/2" x 0.131"); OR 3-10d BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN | TOENAIL |
| 23. RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR OTHER FRAMING BELOW | 8d COMMON (2 1/2" x 0.131"); OR 10d BOX (3" x 0.128"); OR 3" x 0.131" NAILS; OR 3" 14 GAGE STAPLES, 7/16" CROWN | 6" O.C., TOENAIL |
| 24. 1" x 6" SUBFLOOR OR LESS TO EACH JOIST | 2-8d COMMON (2 1/2" x 0.131"); OR 2-10d BOX (3" x 0.128") | FACE NAIL |

13 NAILING SCHEDULE - CBC TABLE 2304.10.1
1" = 1'-0"

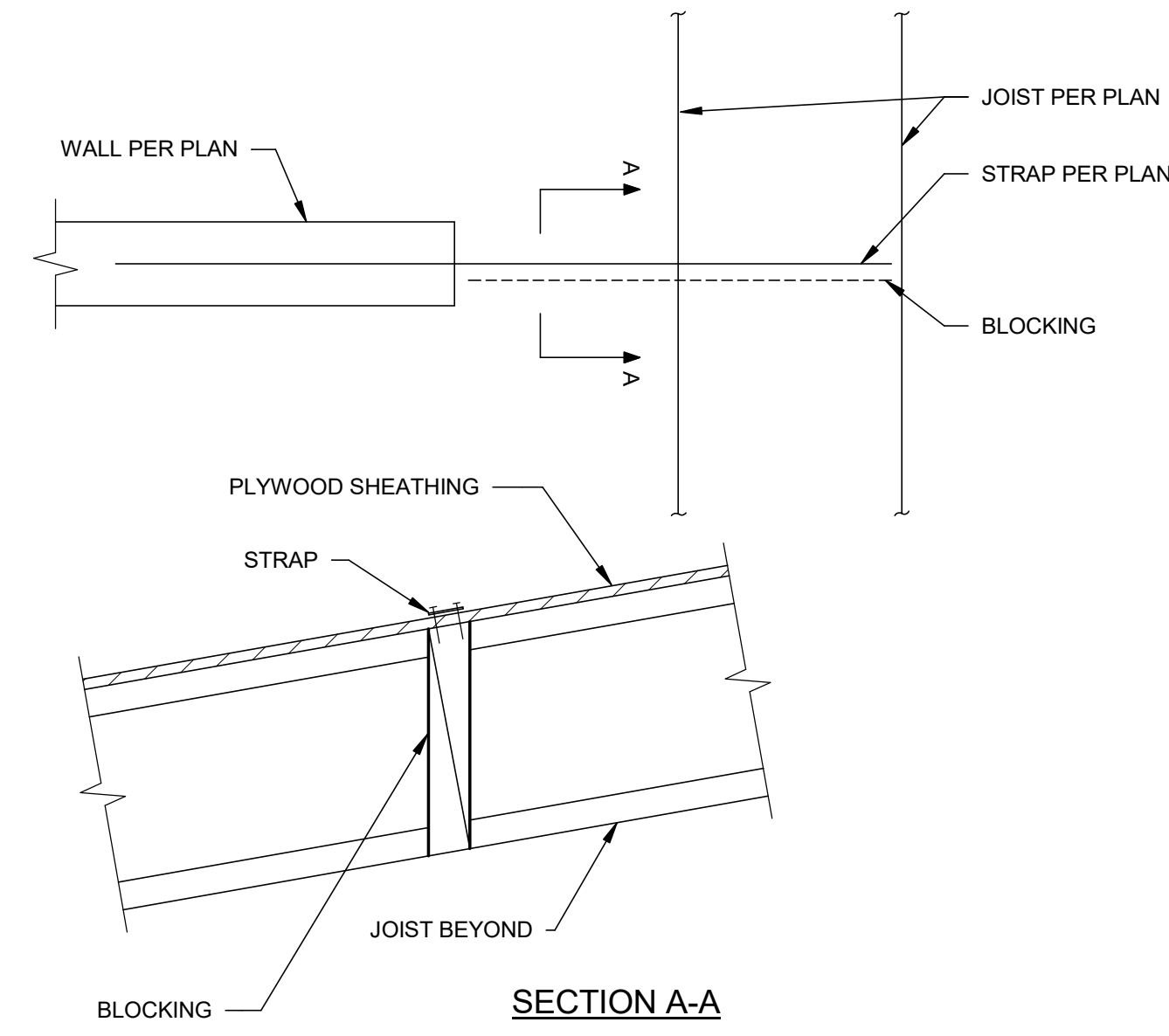
| DESCRIPTION OF BUILDING ELEMENTS | NUMBER AND TYPE OF FASTENER | SPACING AND LOCATION | |
|--|--|--|----|
| FLOOR (CONTINUED) | | | |
| 25. 2" SUBFLOOR TO JOIST OR GIRDER | 2-16d COMMON (3 1/2" x 0.162") | FACE NAIL | |
| 26. 2" PLANKS (PLANK & BEAM - FLOOR & ROOF) | 2-16d COMMON (3 1/2" x 0.162") | EACH BEARING, FACE NAIL | |
| 27. BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS | 20d COMMON (4" x 0.192") | 32" O.C., FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES | |
| | 10d BOX (3" x 0.128"); OR 3" x 0.131" NAILS; OR 3" 14 GAGE STAPLES, 7/16" CROWN AND: 2-20d COMMON (4" x 0.192"); OR 3-10d BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN | 24" O.C., FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES END AND AT EACH SPLICE, FACE NAIL | |
| 28. LEDGER STRIP SUPPORTING JOISTS OR RAFTERS | 3-16d COMMON (3 1/2" x 0.162"); OR 4-10d BOX (3" x 0.128"); OR 4-3" x 0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN | EACH JOIST OR RAFTER, FACE NAIL | |
| 29. JOIST TO BAND JOIST OR RIM JOIST | 3-16d COMMON (3 1/2" x 0.162"); OR 4-10d BOX (3" x 0.128"); OR 4-3" x 0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN | END NAIL | |
| 30. BRIDGING OR BLOCKING TO JOIST, RAFTER OR TRUSS | 2-8d COMMON (2 1/2" x 0.131"); OR 2-10d BOX (3" x 0.128"); OR 2-3" x 0.131" NAILS; OR 2-3" 14 GAGE STAPLES, 7/16" CROWN | EACH END, TOENAIL | |
| WOOD STRUCTURAL PANELS (WSP), SUBFLOOR, ROOF AND INTERIOR WALL SHEATHING (1) TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING | | | |
| 31. 3/8" - 1/2" | 6d COMMON OR DEFORMED (2" x 0.113") (SUBFLOOR AND WALL) | 6 | 12 |
| | 8d BOX OR DEFORMED (2 1/2" x 0.113") (ROOF) | 6 | 12 |
| | 2 3/8" x 0.113" NAIL (SUBFLOOR AND WALL) | 6 | 12 |
| | 1 3/4" 16 GAGE STAPLE, 7/16" CROWN (SUBFLOOR AND WALL) | 4 | 8 |
| | 2 3/8" x 0.113" NAIL (ROOF) | 4 | 8 |
| | 1 3/4" 16 GAGE STAPLE, 7/16" CROWN (ROOF) | 3 | 6 |
| 32. 19/32" - 3/4" | 8d COMMON (2" x 0.131"); OR 8d DEFORMED (2" x 0.113") | 6 | 12 |
| | 2 3/8" x 0.113" NAIL; OR 2" 16 GAGE STAPLE, 7/16" CROWN | 4 | 8 |
| 33. 7/8" - 1 1/4" | 10d COMMON (3" x 0.148"); OR 8d DEFORMED (2 1/2" x 0.131") | 6 | 12 |
| | OTHER EXTERIOR WALL SHEATHING | | |
| 34. 1/2" FIBERBOARD SHEATHING (2) | 1 1/2" GALVANIZED ROOFING NAIL (7/16" HEAD DIAMETER); OR 1 1/4" 16 GAGE STAPLE WITH 7/16" OR 1" CROWN | 3 | 6 |
| | 1 3/4" GALVANIZED ROOFING NAIL (7/16" HEAD DIAMETER); OR 1 1/4" 16 GAGE STAPLE WITH 7/16" OR 1" CROWN | 3 | 6 |
| WOOD STRUCTURAL PANELS, COMBINATION SUBFLOOR UNDERLAYMENT TO FRAMING | | | |
| 36. 3/4" AND LESS | 8d COMMON (2 1/2" x 0.131"); OR 8d DEFORMED (2" x 0.113") | 6 | 12 |
| | 8d COMMON (2 1/2" x 0.131"); OR 8d DEFORMED (2 1/2" x 0.113") | 6 | 12 |
| 37. 7/8" - 1" | 10d COMMON (3" x 0.148"); OR 8d DEFORMED (2 1/2" x 0.131") | 6 | 12 |
| | 10d COMMON (3" x 0.148"); OR 8d DEFORMED (2 1/2" x 0.131") | 6 | 12 |
| 38. 1 1/8" - 1 1/4" | 10d COMMON (3" x 0.148"); OR 8d DEFORMED (2 1/2" x 0.131") | 6 | 12 |
| | PANEL SIDING TO FRAMING | | |
| 39. 1/2" OR LESS | 6d CORROSION-RESISTANT SIDING (1 7/8" x 0.106"); OR 6d CORROSION-RESISTANT CASING (2" x 0.099") | 6 | 12 |
| | 8d CORROSION-RESISTANT SIDING (2 3/8" x 0.128"); OR 8d CORROSION-RESISTANT CASING (2 1/2" x 0.113") | 6 | 12 |
| INTERIOR PANELING | | | |
| 41. 1/4" | 4d CASING (1 1/2" x 0.080"); OR 4d FINISH (1 1/2" x 0.072") | 6 | 12 |
| | 6d CASING (2" x 0.099"); OR 6d FINISH (PANEL SUPPORTS AT 24 INCHES) | 6 | 12 |
| 42. 3/8" | 6d CASING (2" x 0.099"); OR 6d FINISH (PANEL SUPPORTS AT 24 INCHES) | 6 | 12 |

NOTES:

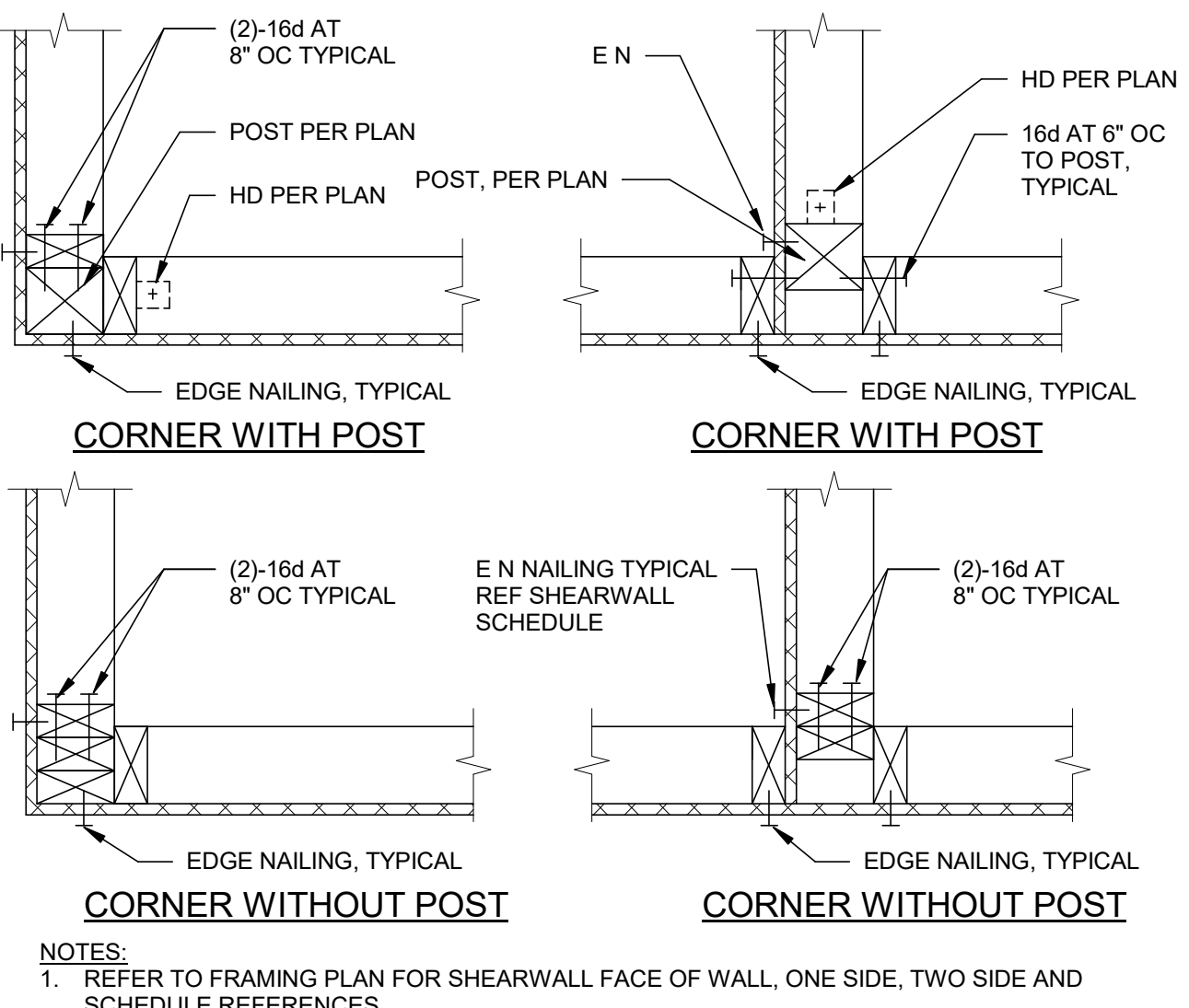
- NAILS SPACED AT 6 INCHES AT INTERMEDIATE SUPPORTS WHERE SPANS ARE 48 INCHES OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.
- SPACING SHALL BE 6 INCHES ON CENTER ON THE EDGES AND 12 INCHES ON CENTER AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS. PANEL SUPPORTS AT 16 INCHES (20 INCHES IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED).
- WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE AND THE CEILING JOIST IS FASTENED TO THE TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE, THE NUMBER OF TOENAILS IN THE RAFTER SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL.



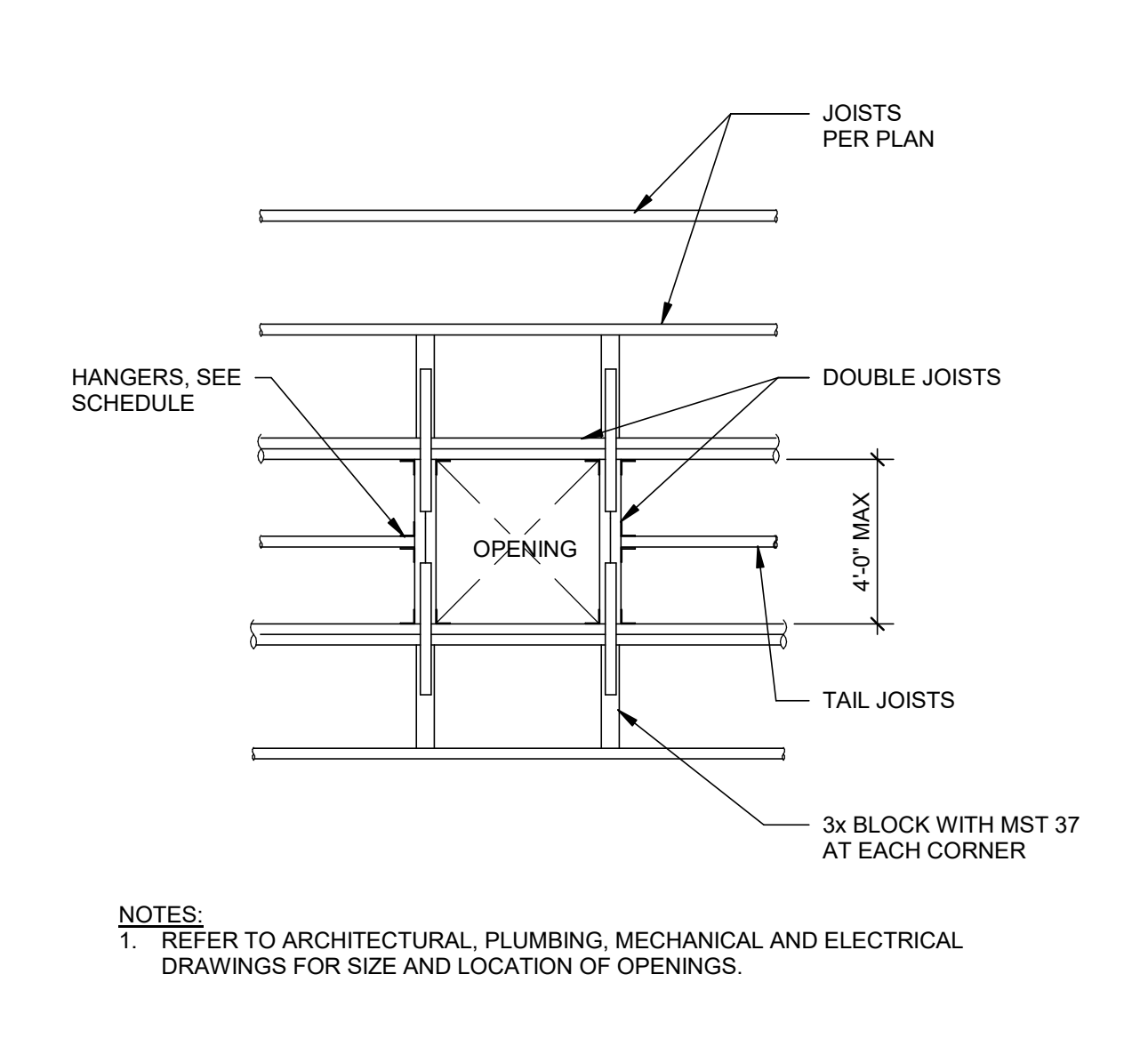
5 SKewed Shear Wall Intersections
NO SCALE



10 TYPICAL BLOCKING AND STRAP
1" = 1'-0"



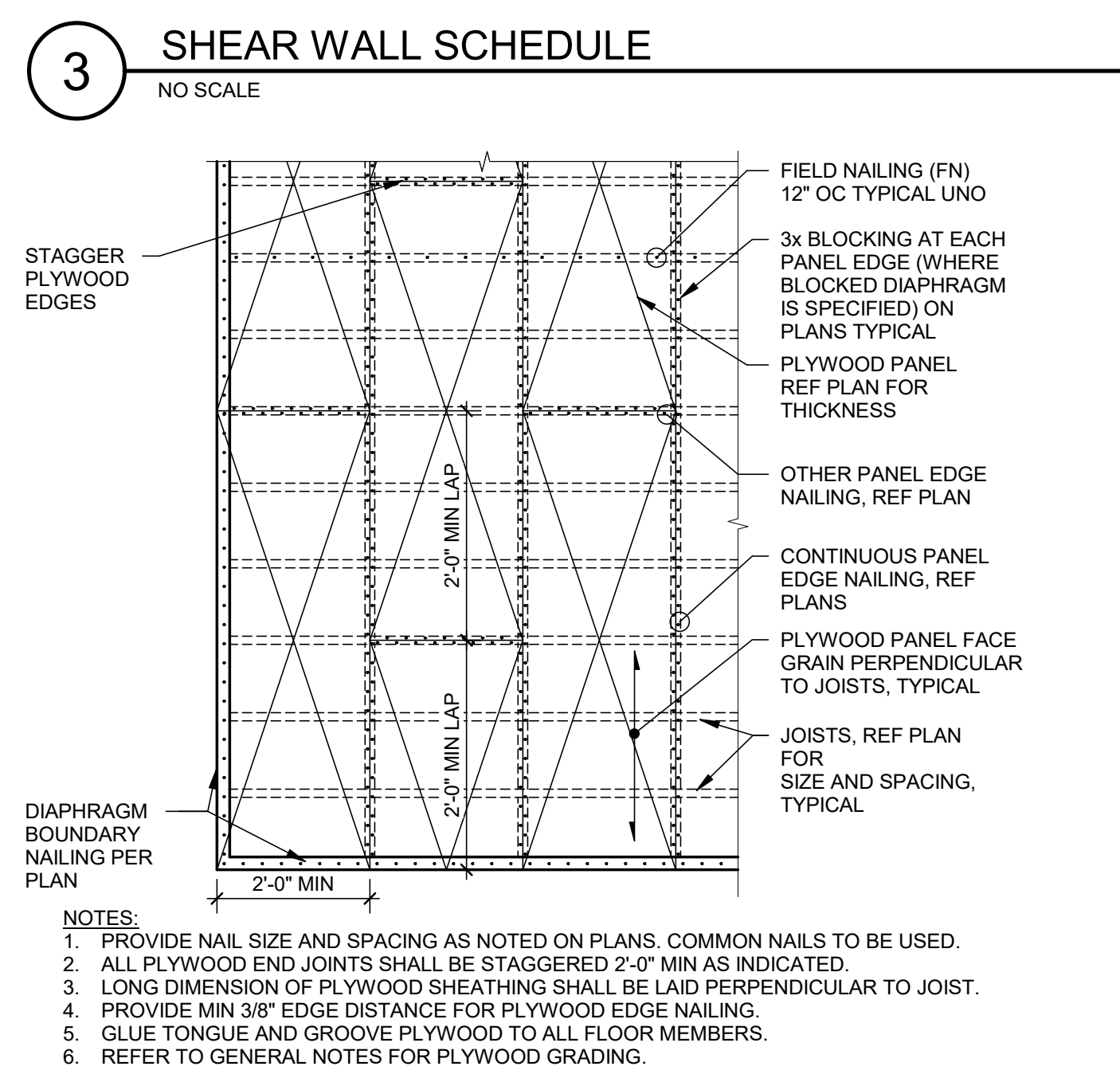
4 TYPICAL SHEARWALL INTERSECTION FRAMING
NO SCALE



9 TYPICAL ROOF OPENING
NO SCALE

3 SHEAR WALL SCHEDULE
NO SCALE

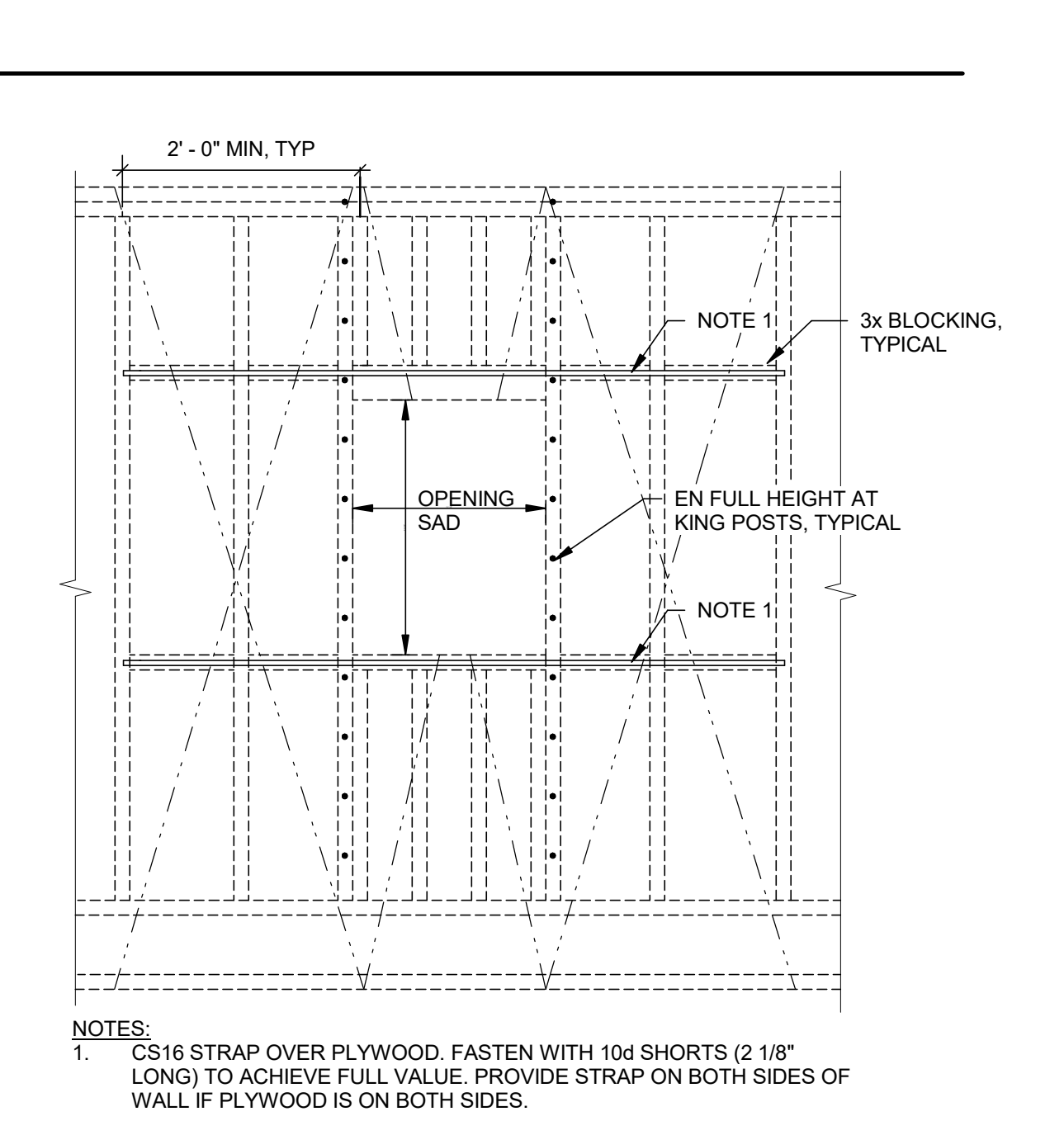
| SHEARWALL SYMBOL (1) (3) | SILL PLATE BOLTS | SILL PLATE | SOLE PLATE FASTENER (8) | SOLE PLATE | SHEAR CLIPS AT FLOOR | SHEAR CLIPS AT ROOF |
|--------------------------|---------------------|------------|--------------------------------|------------|----------------------------------|---------------------|
| ⊠ | 3/4" DIA @ 4'-0" OC | 3x | 16d @ 4' OC | 2x | A35 @ 1'-4" OC | LS50 @ 12" OC |
| ⊠ | 3/4" DIA @ 2'-8" OC | 3x | 20d @ 3' OC | 3x | A35 @ 12" OC | |
| ⊠ (4) | 3/4" DIA @ 2'-8" OC | 3x | 30d @ 4' OC | 3x | A35 @ 8" OC | |
| ⊠ (4) | 3/4" DIA @ 1'-4" OC | 3x | 30d @ 3' OC | 3x | A35 @ 8" OC | |
| ⊠ (2)(4) | 3/4" DIA @ 1'-4" OC | 3x | 1/2" DIAx7" LAG SCREW AT 8" OC | 3x | A35 @ 6" OC | |
| ⊠ (5) | 3/4" DIA @ 1'-4" OC | 3x | 1/2" DIAx7" LAG SCREW AT 8" OC | 3x | A35 AND LPT4 AT 8" OC, OPP SIDES | |
| ⊠ (4)(5) | 7/8" DIA @ 1'-4" OC | 3x | 1/2" DIAx7" LAG SCREW AT 8" OC | 3x | A35 AND LPT4 AT 8" OC, OPP SIDES | |
| ⊠ (4)(5) | 7/8" DIA @ 1'-4" OC | 3x | 1/2" DIAx7" LAG SCREW AT 6" OC | 3x | A35 AND LPT4 AT 8" OC, OPP SIDES | |



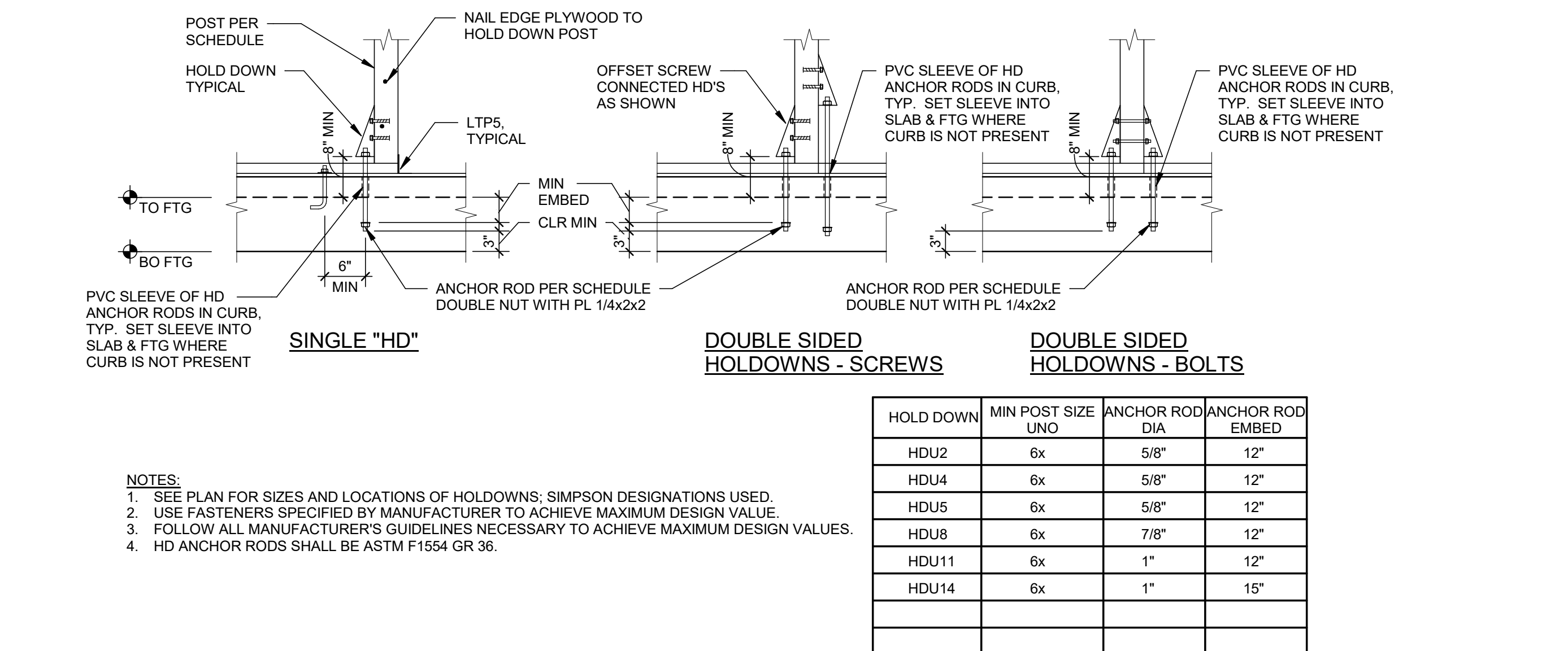
8 TYPICAL ROOF AND FLOOR PLYWOOD SHEATHING
NO SCALE

7 SHEAR WALL OPENING
NO SCALE

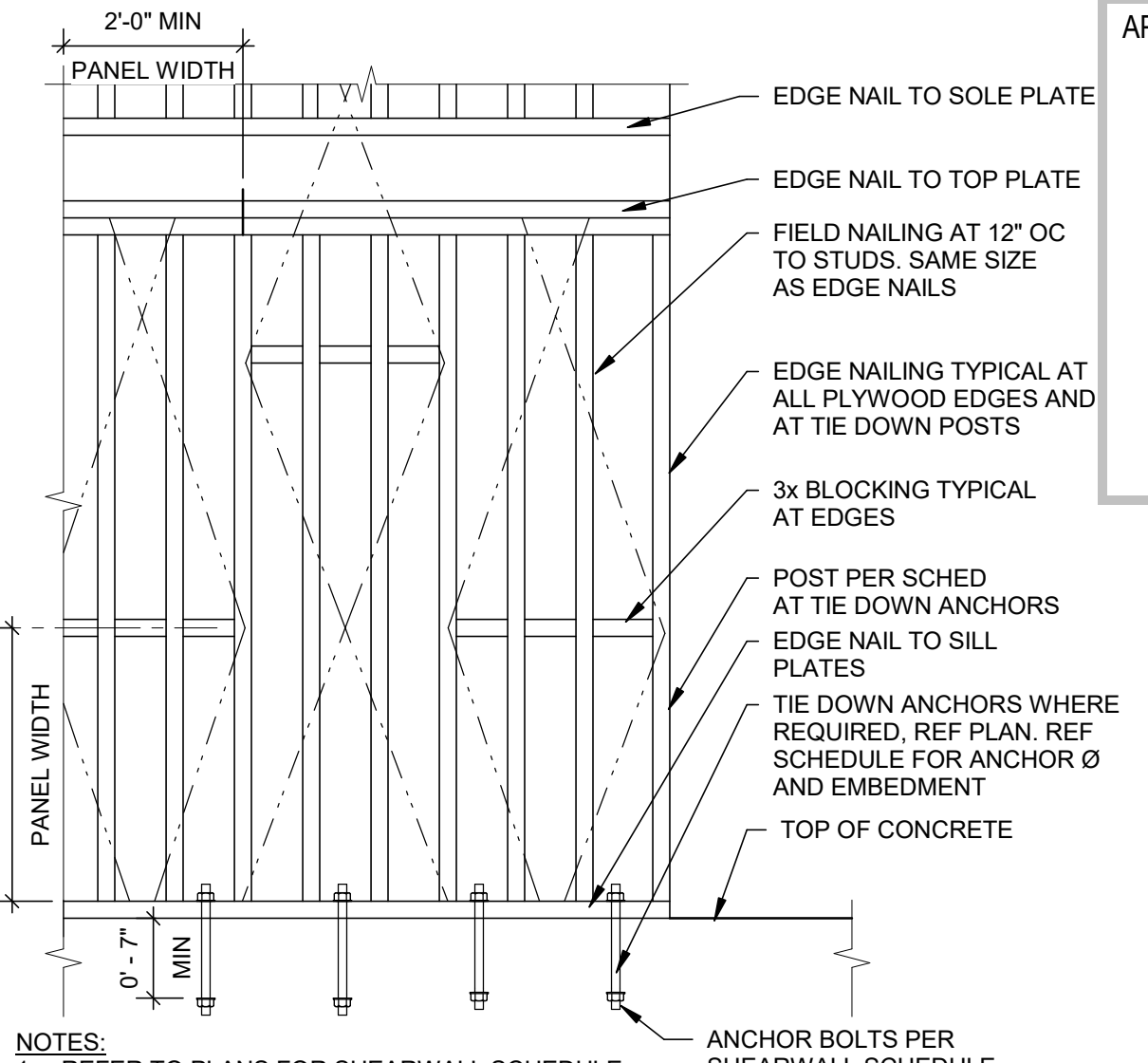
| WALL THICKNESS | PLATE WASHER |
|----------------|----------------|
| x6 | 3"x4 1/2"x1/4" |



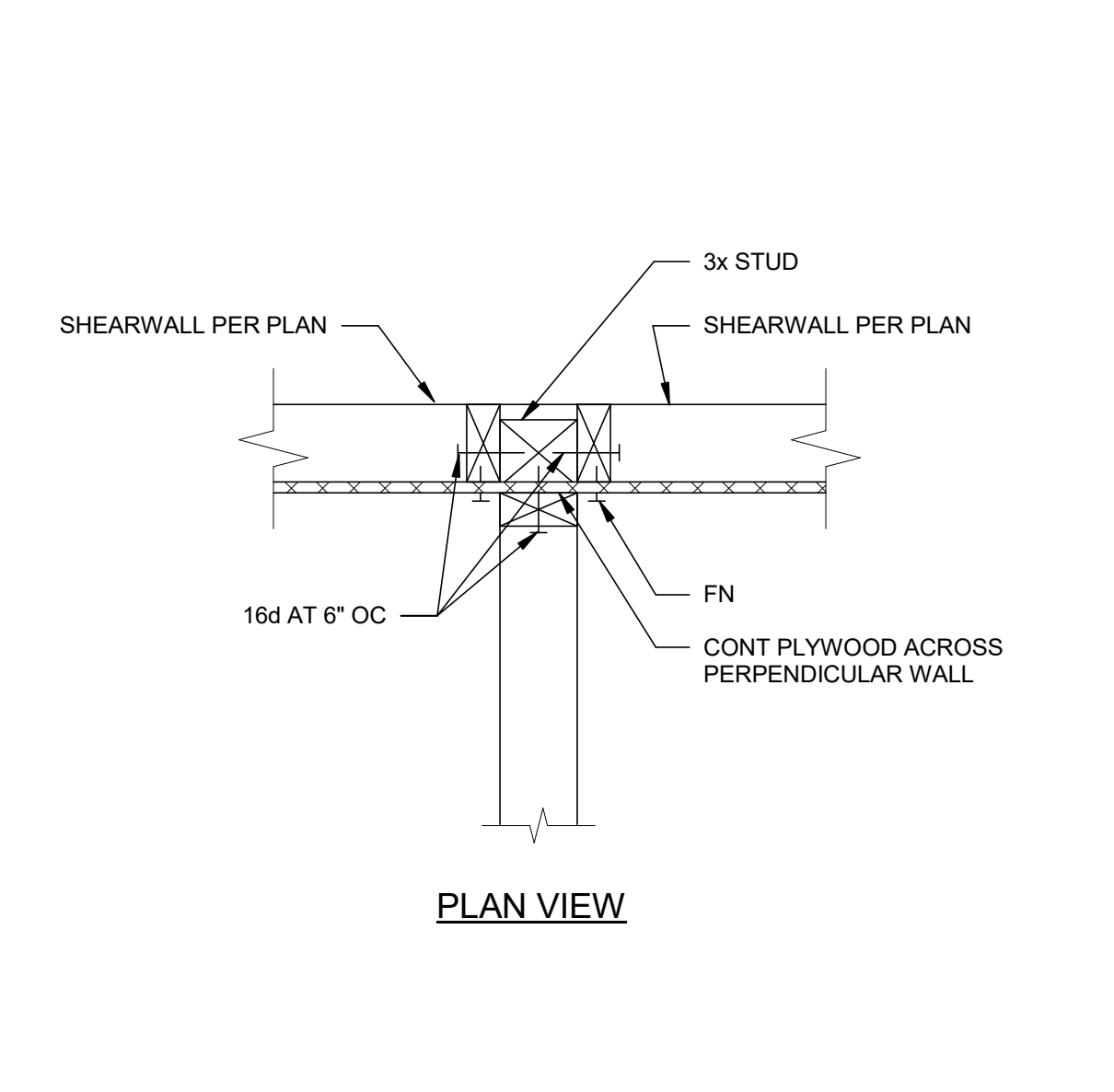
6 TYPICAL SHEARWALL PLYWOOD ACROSS PERPENDICULAR WALL
NO SCALE



14 HOLDDOWN AT FOUNDATION
NO SCALE



1 TYPICAL SHEAR PANEL
NO SCALE



11 TYP HSS POST AT WALL OPENING
1/2" = 1'-0"

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PROJECT TITLE

CONTRA COSTA CCD D-4002
DVC SAN RAMON CAMPUS EXPANSION & RENOVATION

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San Ramon, CA 94582

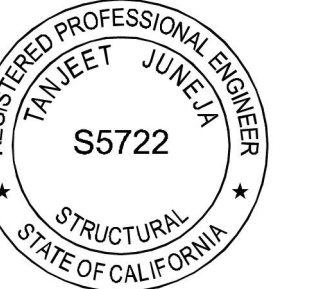
RECORD SET:
THESE DRAWINGS HAVE BEEN PREPARED FROM ADDENDUMS, CCD'S, ASIS AND SELECT RFI'S OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM. ONLY A SELECT FEW AS-BUILTS WERE SUBMITTED.

ISSUE TITLE
INCREMENT 2 - AS-BUILT - FINAL

| | |
|-----------------------|------------------|
| ISSUE DATE | 08/23/2023 |
| NOLL & TAM JOB NUMBER | 21630 |
| REVISIONS | DATE DESCRIPTION |
| TBD | TBD |

SHEET TITLE
TYPICAL WOOD DETAILS

SHEET NUMBER
S8.03.2



THESE DRAWINGS HAVE BEEN PREPARED FROM ADDENDUMS, CCD'S, ASIS AND SELECT RFI'S OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM. ONLY A SELECT FEW AS-BUILTS WERE SUBMITTED.

TABLE 1 - HOLE SIZE FACTORS AND LOACTIONS

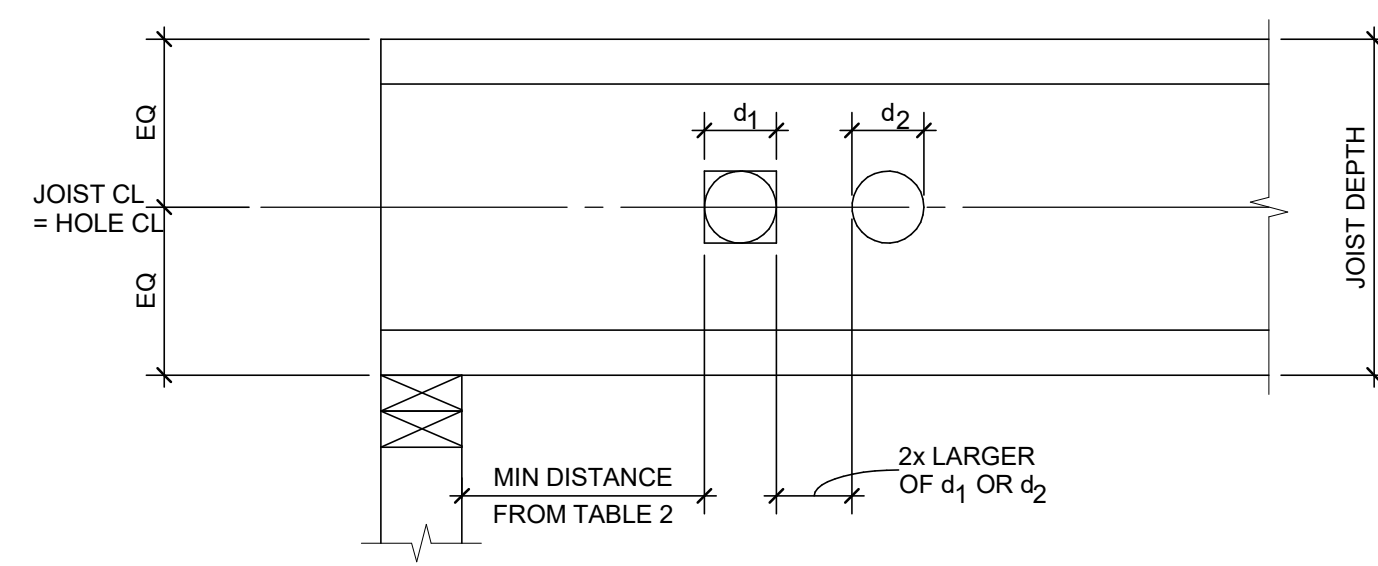
| ROUND HOLE SIZE | RECTANGULAR HOLE SIZE ⁽¹⁾ | JOIST DEPTH | | | | | | | | | | | |
|-----------------|--------------------------------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 11 7/8" | 14" | 16" | 18" | 20" | 22" | 24" | 26" | 28" | 30" | 32" | 34" |
| 2" | 1 1/4" | A | A | A | A | A | A | A | A | A | A | A | A |
| 3" | 1 3/4" | A | A | A | A | A | A | A | A | A | A | A | A |
| 4" | 2 1/4" | B | B | A | A | A | A | A | A | A | A | A | A |
| 5" | 3" | C | C | B | A | A | A | A | A | A | A | A | A |
| 6" | 3 1/2" | E | C | C | B | B | A | A | A | A | A | A | A |
| 7" | 4" | D | C | C | B | B | A | A | A | A | A | A | A |
| 8" | 4 3/4" | E | D | C | C | B | B | B | B | B | B | B | B |
| 9" | 5 1/4" | | E | D | C | C | B | B | B | B | B | B | B |
| 10" | 6" | | E | E | D | C | C | B | B | B | B | B | B |
| 11" | 6 1/2" | | | E | D | D | C | C | B | B | B | B | B |
| 12" | 7" | | | | E | D | D | C | C | B | B | B | B |
| 13" | 7 3/4" | | | | | E | E | D | D | C | C | B | B |
| 14" | 8 1/4" | | | | | | E | E | D | D | C | C | B |
| 15" | 9" | | | | | | | E | E | D | D | C | C |
| 16" | 9 1/2" | | | | | | | | E | E | D | D | C |
| 17" | 10" | | | | | | | | | E | E | D | C |

RED-145, RED-165, RED-190, RED-190H, AND RED-190HS ALLOWABLE HOLES

NOTE: SEE TABLE 2 FOR DIMENSIONS A, B, C, D, & E

TABLE 2 - HOLE LOCATIONS

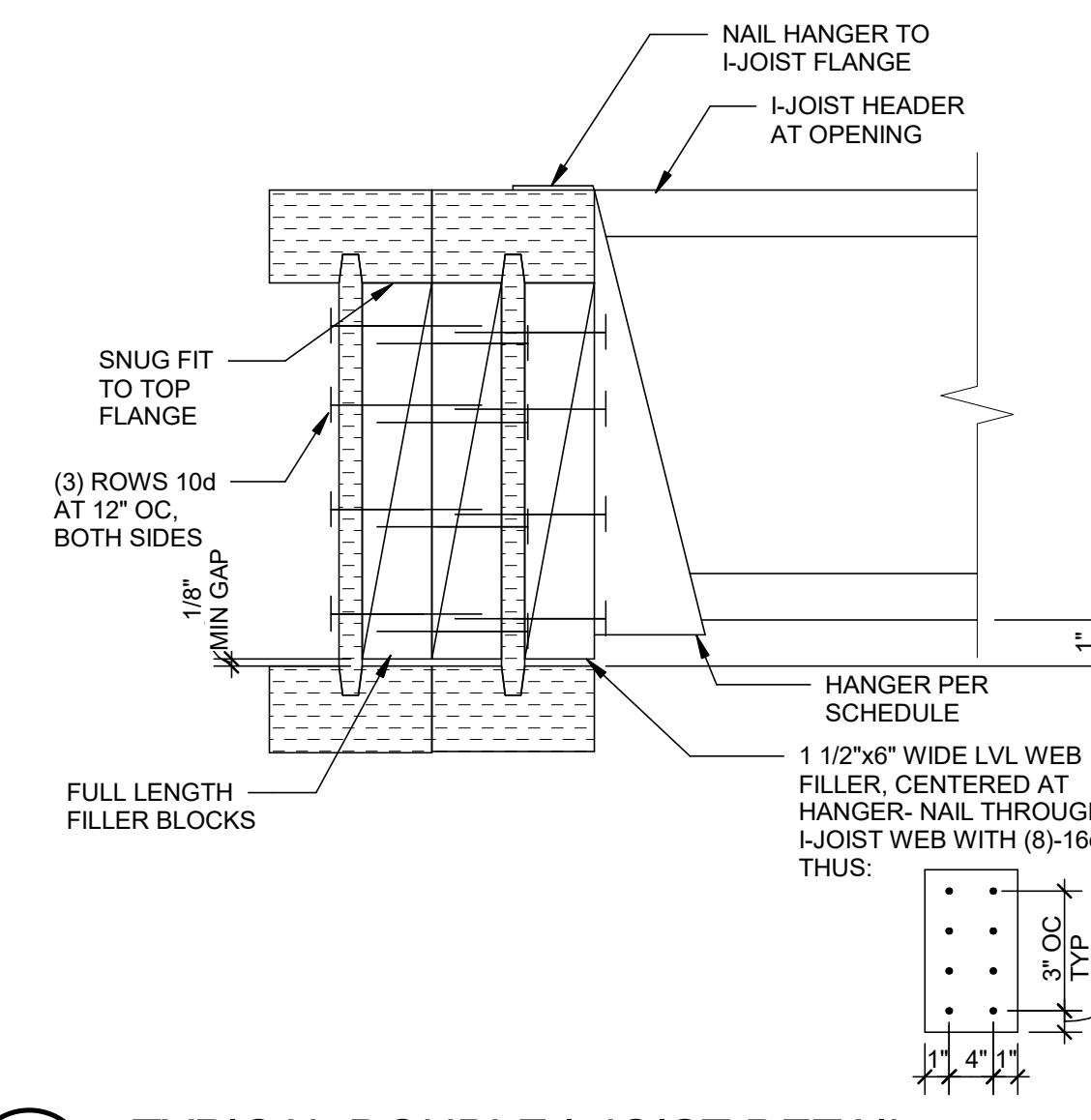
| JOIST SPAN | HOLE FACTOR | | | | |
|------------|-------------|-------|-------|-------|--------|
| | A | B | C | D | E |
| 14' | 1'-3" | 2'-0" | 2'-6" | 3'-0" | 5'-0" |
| 15' | 1'-3" | 2'-0" | 3'-0" | 4'-0" | 5'-3" |
| 16' | 1'-3" | 2'-3" | 3'-3" | 4'-6" | 5'-9" |
| 17' | 1'-6" | 2'-0" | 3'-0" | 5'-0" | 6'-3" |
| 18' | 1'-6" | 3'-0" | 4'-3" | 5'-6" | 6'-9" |
| 19' | 1'-9" | 3'-0" | 4'-3" | 5'-6" | 7'-0" |
| 20' | 1'-9" | 3'-0" | 4'-3" | 5'-6" | 7'-0" |
| 21' | 2'-0" | 3'-0" | 4'-3" | 5'-9" | 7'-3" |
| 22' | 2'-0" | 3'-0" | 4'-3" | 5'-9" | 7'-3" |
| 23' | 2'-0" | 3'-3" | 4'-3" | 5'-9" | 7'-6" |
| 24' | 2'-3" | 3'-3" | 4'-6" | 5'-9" | 7'-6" |
| 25' | 2'-3" | 3'-6" | 4'-9" | 5'-9" | 7'-9" |
| 26' | 2'-3" | 3'-9" | 4'-9" | 6'-0" | 7'-9" |
| 27' | 2'-6" | 3'-9" | 5'-0" | 6'-3" | 7'-9" |
| 28' | 2'-6" | 4'-0" | 5'-3" | 6'-6" | 8'-0" |
| 29' | 2'-6" | 4'-0" | 5'-6" | 6'-9" | 8'-3" |
| 30' | 2'-9" | 4'-3" | 5'-9" | 7'-0" | 8'-6" |
| 31' | 3'-0" | 4'-3" | 5'-9" | 7'-3" | 8'-9" |
| 32' | 3'-0" | 4'-6" | 6'-0" | 7'-6" | 9'-3" |
| 33' | 3'-0" | 4'-9" | 6'-3" | 7'-9" | 9'-6" |
| 34' | 3'-0" | 5'-0" | 6'-6" | 8'-0" | 9'-9" |
| 35' | 3'-3" | 5'-0" | 6'-6" | 8'-3" | 10'-0" |
| 36' | 3'-3" | 5'-0" | 6'-9" | 8'-6" | 10'-3" |



- NOTES:
 1. TABLES ARE BASED ON SIMPLE SPANS WITH 45 PSF MAX. DEAD LOADS.
 2. RECTANGULAR HOLES ARE BASED ON MEASUREMENT OF THE LONGEST SIDE.
 3. MULTIPLE HOLES REQUIRE SPACING 2 TIMES THE LENGTH OF THE LARGEST HOLE.
 4. DO NOT CUT HOLES IN JOIST CANTILEVER AREAS.
 5. INFORMATION SHOWN IS FOR THE WEYERHAEUSER/RED-BUILT I-JOIST PRODUCT. OTHER PRODUCTS SUBSTITUTED SHALL SUBMIT COMPARABLE HOLE SCHEDULE FOR APPROVAL.

2 TYPICAL DOUBLE I-JOIST DETAIL

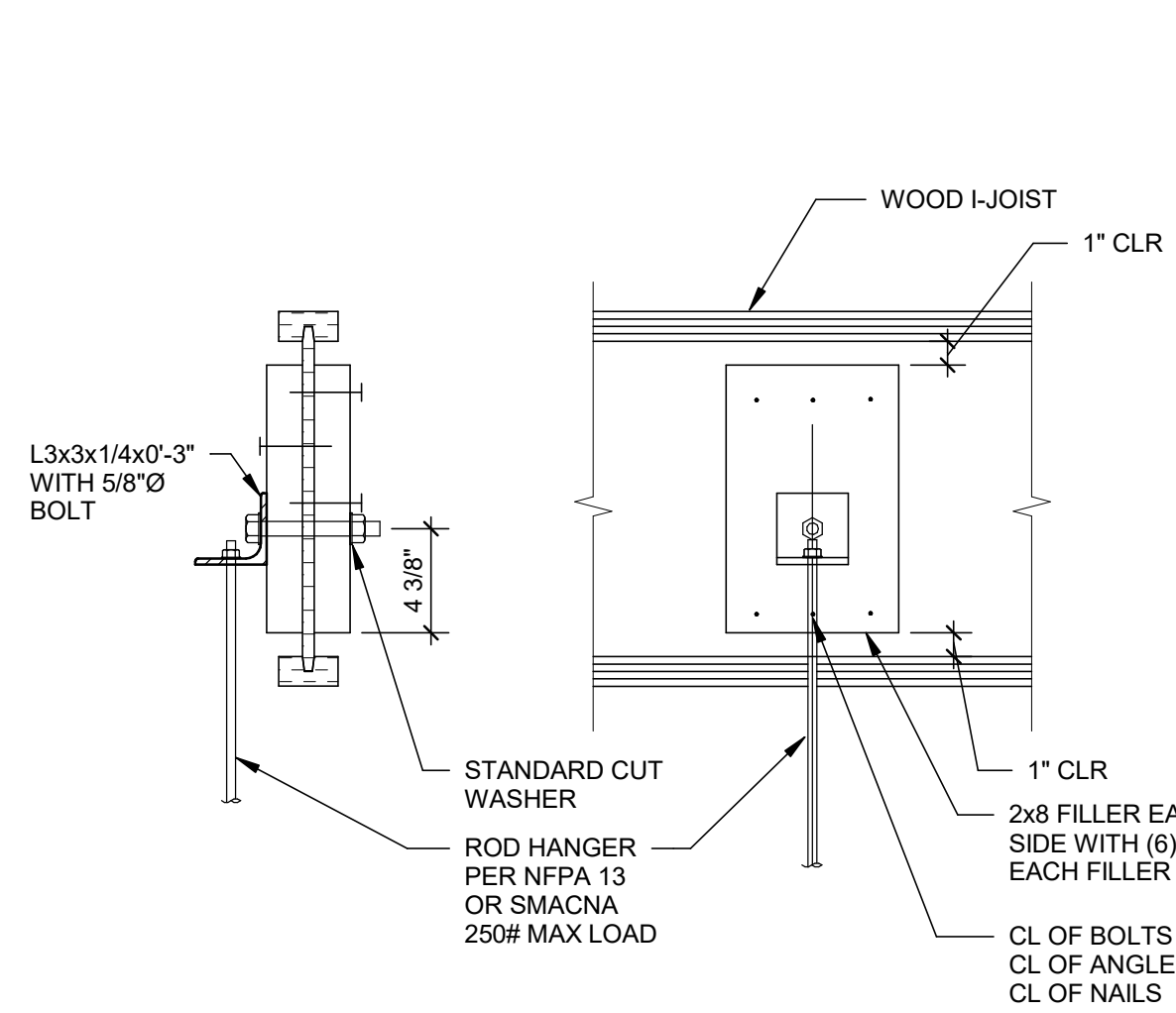
NO SCALE



RFI #23 - PRODUCTION OF CAMBERED RED I-JOIST, CAMBER RED-190 JOIST TO 2250' RADIUS

5 TYPICAL I-JOIST WEB HOLES

NO SCALE



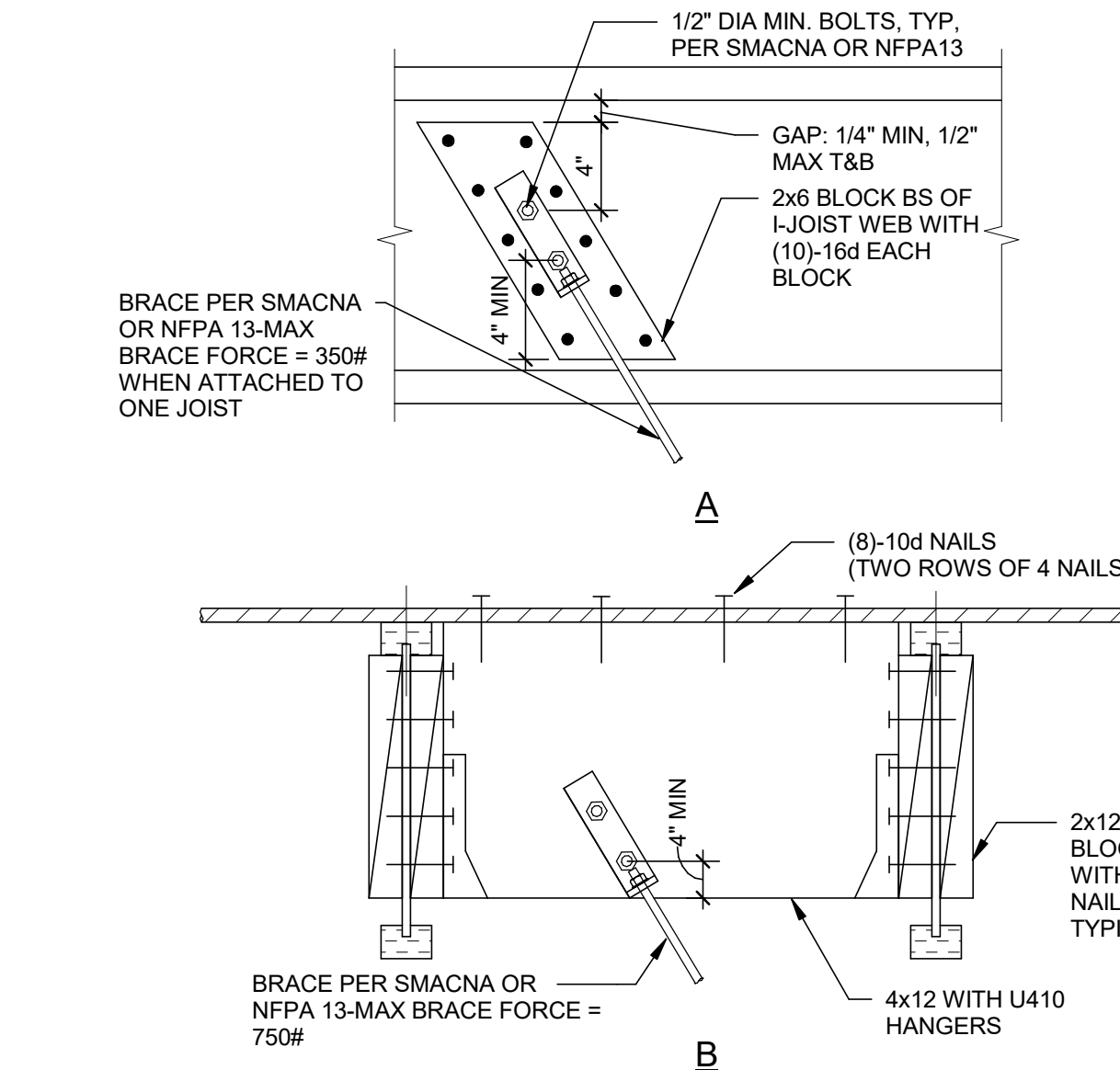
9 TYPICAL HANGER FROM I-JOIST

250 LB MAXIMUM PER JOIST

| MAX SPAN | JOIST | REMARKS |
|-------------|-----------------|------------------------------|
| 8'-0" | 2x6 @ 24" O.C. | - |
| 10'-0" | 2x8 @ 16" O.C. | - |
| 12'-0" | 2x10 @ 16" O.C. | - |
| OVER 12'-0" | 2x6 @ 24" O.C. | PROVIDE 2x4 HGRS PER DET 'C' |

8 TYPICAL SEISMIC BRACING TO I-JOISTS

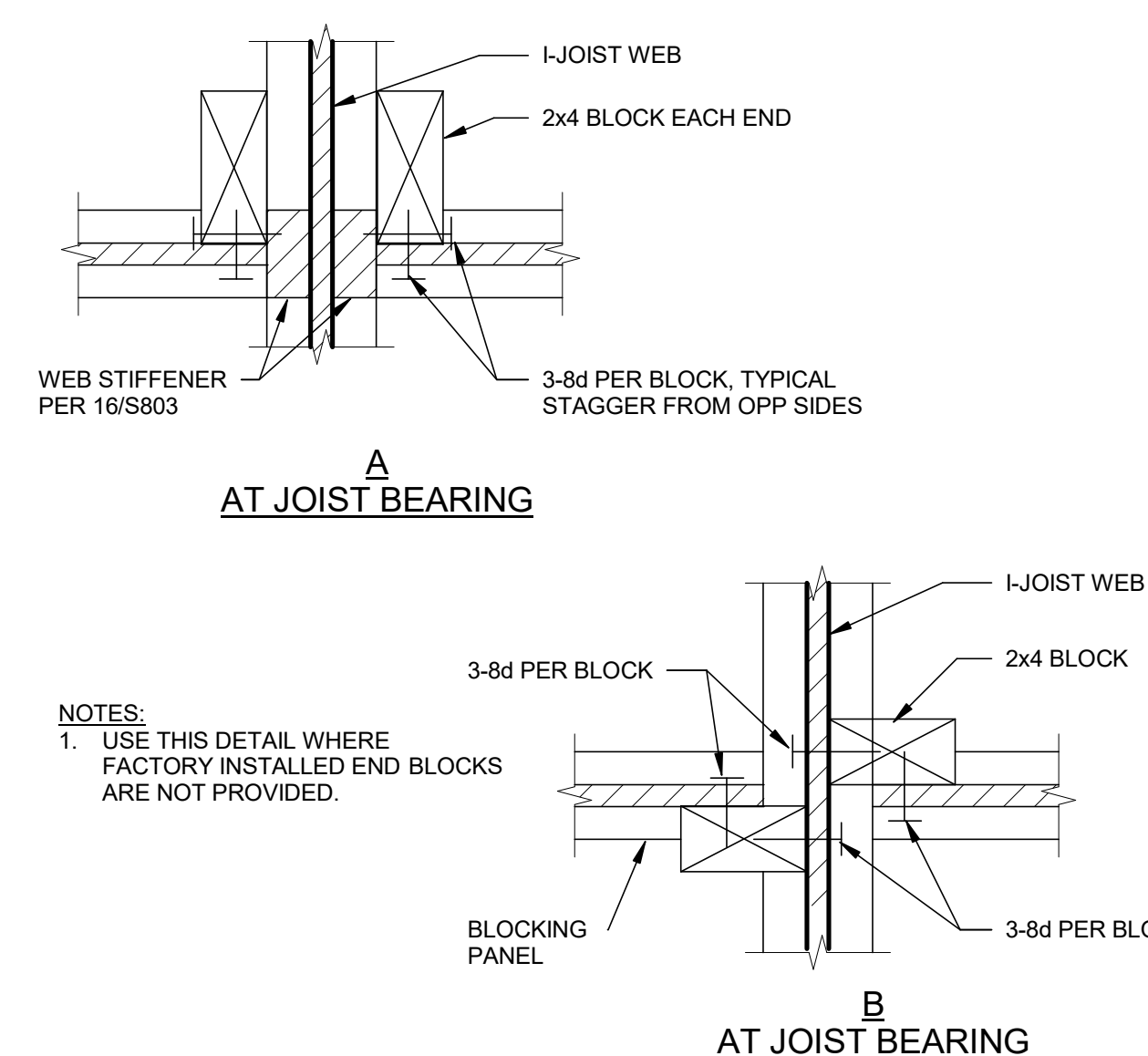
NO SCALE



- NOTES:
 1. MEMBER SIZES BASED ON DEAD LOAD = 12 PSF PLUS LIVE LOAD = 10 PSF MAX.
 2. REF ARCH DRAWINGS FOR TYPICAL CEILING AND SOFFIT LOCATIONS.

7 I-JOIST BRIDGING

NO SCALE



A AT JOIST BEARING

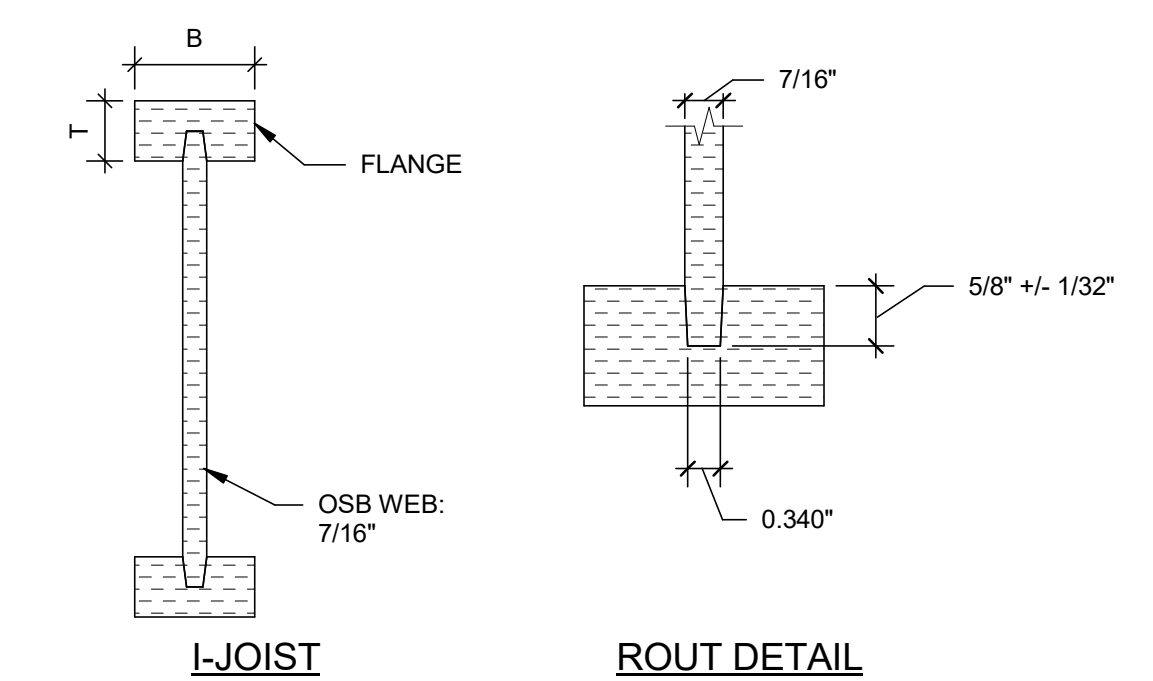
B AT JOIST BEARING

- NOTES:
 1. USE THIS DETAIL WHERE FACTORY INSTALLED END BLOCKS ARE NOT PROVIDED.

6 WOOD I-JOIST NOTES

NO SCALE

- WOOD I-JOIST NOTES
 1. WOOD I-JOISTS SHALL BE PREFABRICATED BY A MANUFACTURER WITH A MINIMUM OF 5 YEARS EXPERIENCE PERFORMING SIMILAR WORK. DESIGN, FABRICATION, AND TESTING SHALL COMPLY WITH ASTM D5055, "STRUCTURAL CAPACITIES OF PREFABRICATED WOOD I-JOISTS." MANUFACTURER SHALL HAVE A CURRENT ICC REPORT FOR I-JOISTS WHICH INDICATES COMPLIANCE WITH 2015 IBC, ASTM D5055-04, AND ICC ES AC-14. THE ICC REPORT SHALL ALSO REQUIRE A QUALITY CONTROL/ASSURANCE PROGRAM COMPLYING WITH THE REQUIREMENTS OF ICC AC-14 AND ASTM D5055-04.
 2. I-JOIST MANUFACTURER SHALL RETAIN A CIVIL ENGINEER LICENSED IN THE STATE OF CALIFORNIA TO DIRECT THE FABRICATION AND ERECTION OF THE JOISTS.
 3. PRIOR TO FABRICATION OF I-JOISTS, THE FOLLOWING MATERIAL BEARING THE APPROVAL OF THE MANUFACTURER'S ENGINEER MUST BE SUBMITTED TO THE ARCHITECT FOR REVIEW:
 A. SHOP DRAWINGS CLEARLY SHOWING JOIST LAYOUT AND JOIST MEMBER SIZES (INCLUDING GRADE AND SPECIES OF LUMBER USED), ELEVATION OF TAPERED JOISTS (IF ANY), BRIDGING REQUIREMENTS, WEB OPENINGS, WEB STIFFENERS, CONNECTION DETAILS, AND BEARING DETAILS.
 4. PROVIDE ALL BRIDGING, WEB STIFFENERS, LATERAL AND DIAGONAL BRACING, CLIPS, AND ANCHORS AS DETAILED IN THESE DRAWINGS. DO NOT CUT, NOTCH, DRILL OR MODIFY I-JOISTS EXCEPT AS DETAILED IN THE STRUCTURAL DRAWINGS.
 5. THE CONTRACTOR SHALL INSTALL ERECTION BRACING IN ACCORDANCE WITH THE JOIST MANUFACTURER'S REQUIREMENTS.
 6. THE CONTRACTOR SHALL COORDINATE ALL PLUMBING, ELECTRICAL, MECHANICAL, FIRE PROTECTION, AND FEATURES REQUIRED BY OTHER TRADES. CONFLICTS BETWEEN MEP AND JOIST STRUCTURAL REQUIREMENTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT.
 7. PROVIDE LATERAL BRACING OF I-JOISTS WITH SPANS GREATER THAN 20'-0" PER BRIDGING DETAIL 7 OF THIS SHEET.
 8. PROVIDE 1-1/2" DIA KNOCKOUT HOLES AT 12" O.C. JOISTS MAY BE ORIENTED WITH KNOCKOUTS AT THE TOP OR BOTTOM. HOLES THROUGH I-JOIST WEBS SHALL BE PERMITTED WHERE NOTED ON THE PLANS AND PER DETAIL 5 OF THIS SHEET.
 9. PROVIDE LATERAL BRACING OF I-JOISTS WITH SPANS GREATER THAN 20'-0" PER BRIDGING DETAIL 7 OF THIS SHEET.
 10. PROVIDE CAMBER IN I-JOISTS AS FOLLOWS:
 A. CAMBER FLOOR JOISTS IN EXCESS OF 20 FEET LONG TO RADIUS = 3000 FEET.
 B. CAMBER ROOF JOISTS IN EXCESS OF 20 FEET LONG TO RADIUS = 2000 FEET.
 C. RED-190HS JOISTS DO NOT NEED TO BE CAMBERED.
 11. SEISMIC BRACING TO JOISTS - SEE DETAIL 8 FOR SEISMIC BRACING DETAILS AND LOAD LIMITS. TOTAL BRACE LOAD PER JOIST DUE TO MULTIPLE BRACES SHALL NOT EXCEED THE MAX BRACE FORCES SPECIFIED IN DETAIL 8.



I-JOIST

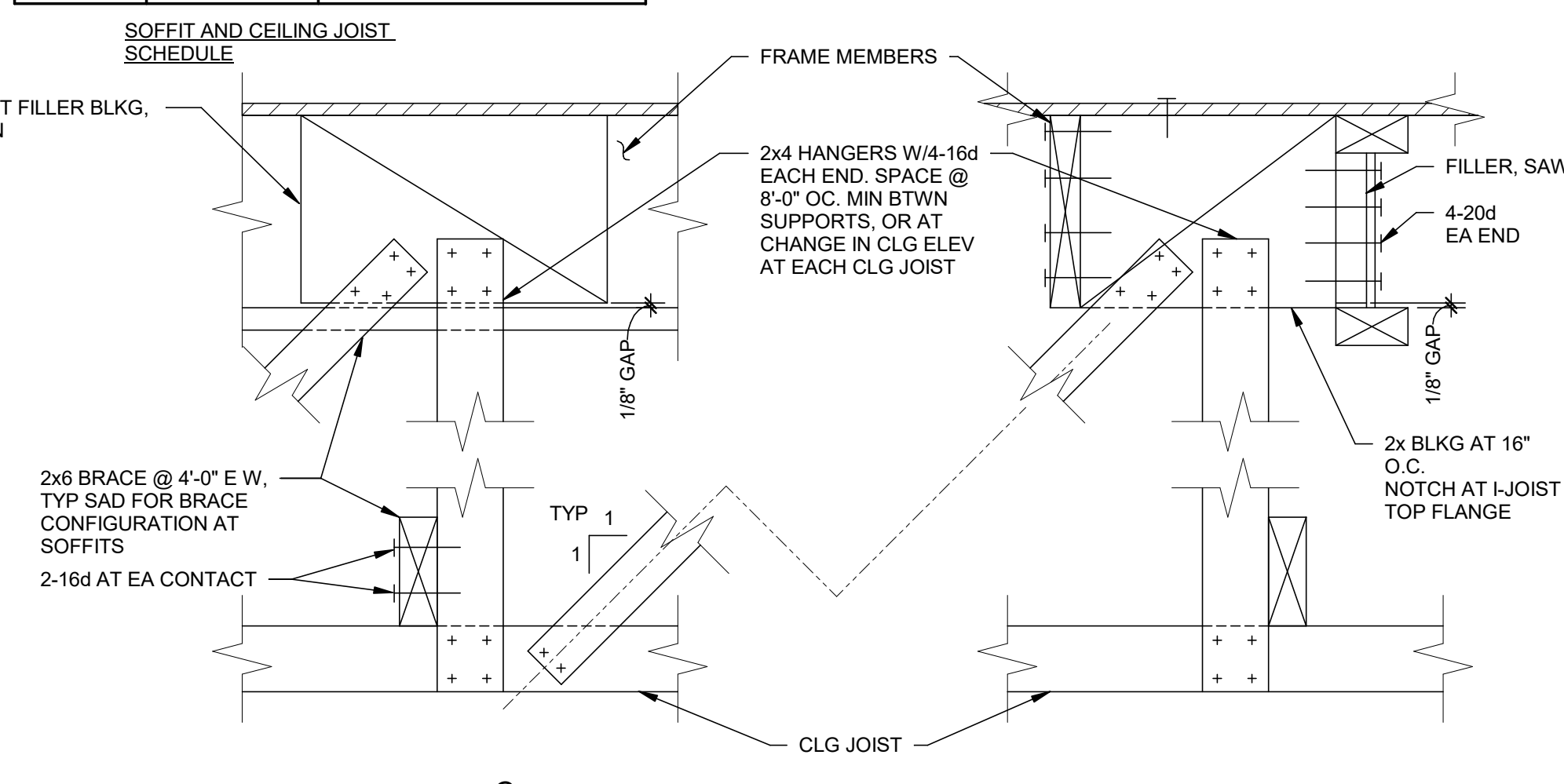
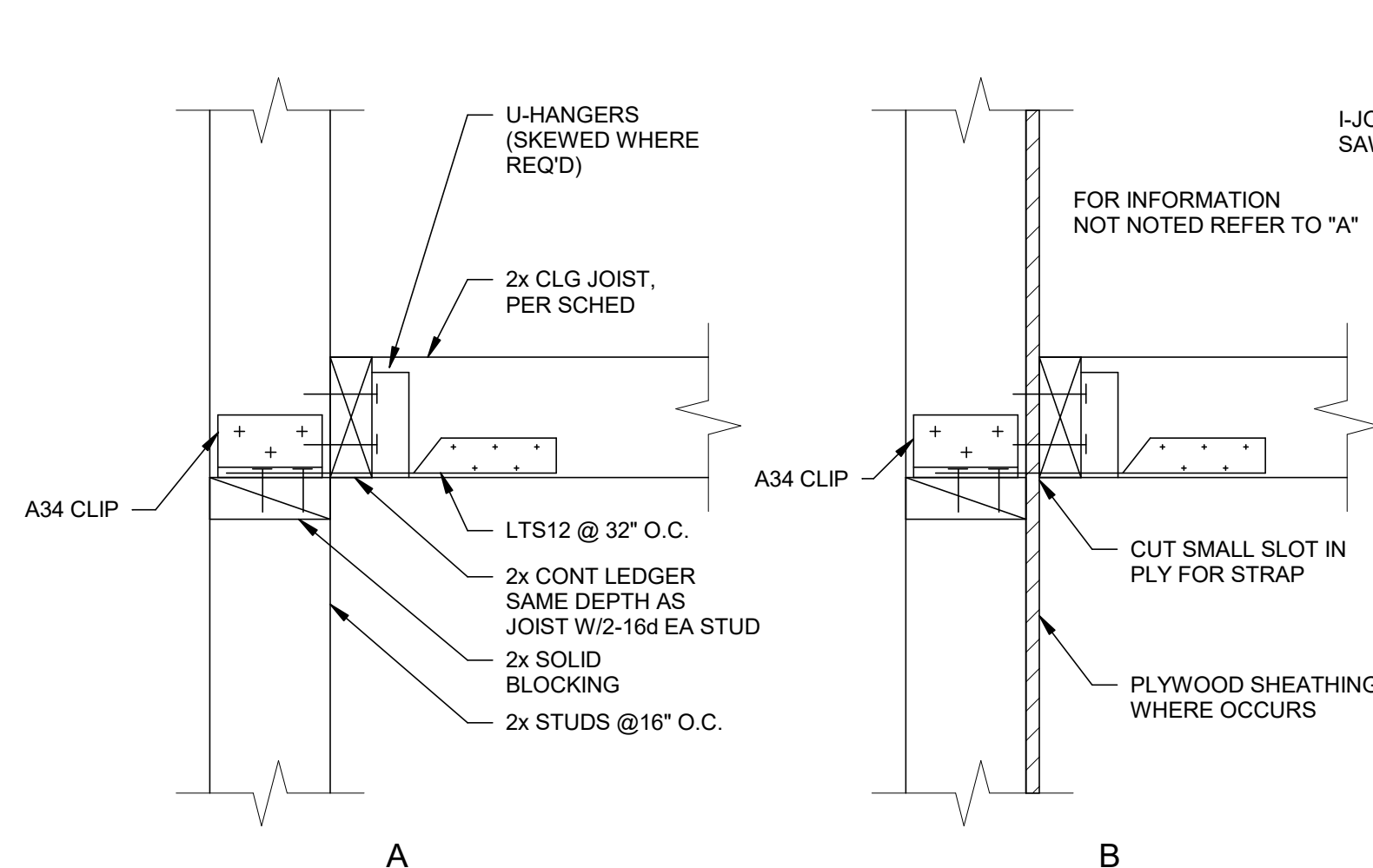
ROUT DETAIL

| JOIST TYPE | I-JOIST SECTION PROPERTIES (ESR 2994) | | | | WEB STIFFENERS | |
|-----------------|---------------------------------------|--|----------------|-------------|-----------------|---------|
| | T x B FLANGE | EI (JOIST) 10 ⁶ LBS IN ² | M ALLOW FT-LBS | V ALLOW LBS | SIZE | NAILS |
| 11 7/8" Red-165 | 1 1/2 x 2 1/2 | 450 | 6,750 | 2,255 | 1" x 2 5/16" | (3) 8d |
| 16" Red-190 | 1 1/2 x 3 1/2 | 1246 | 13,115 | 2,810 | 1 1/2" x 5 1/2" | (6) 16d |

NOTE: WEB STIFFENERS AT RED-165 JOISTS ARE SHEATHING MATERIAL, FACE GRAIN ORIENTED VERTICALLY.

15 TYPICAL SOFFIT AND CEILING JOIST SCHEDULE

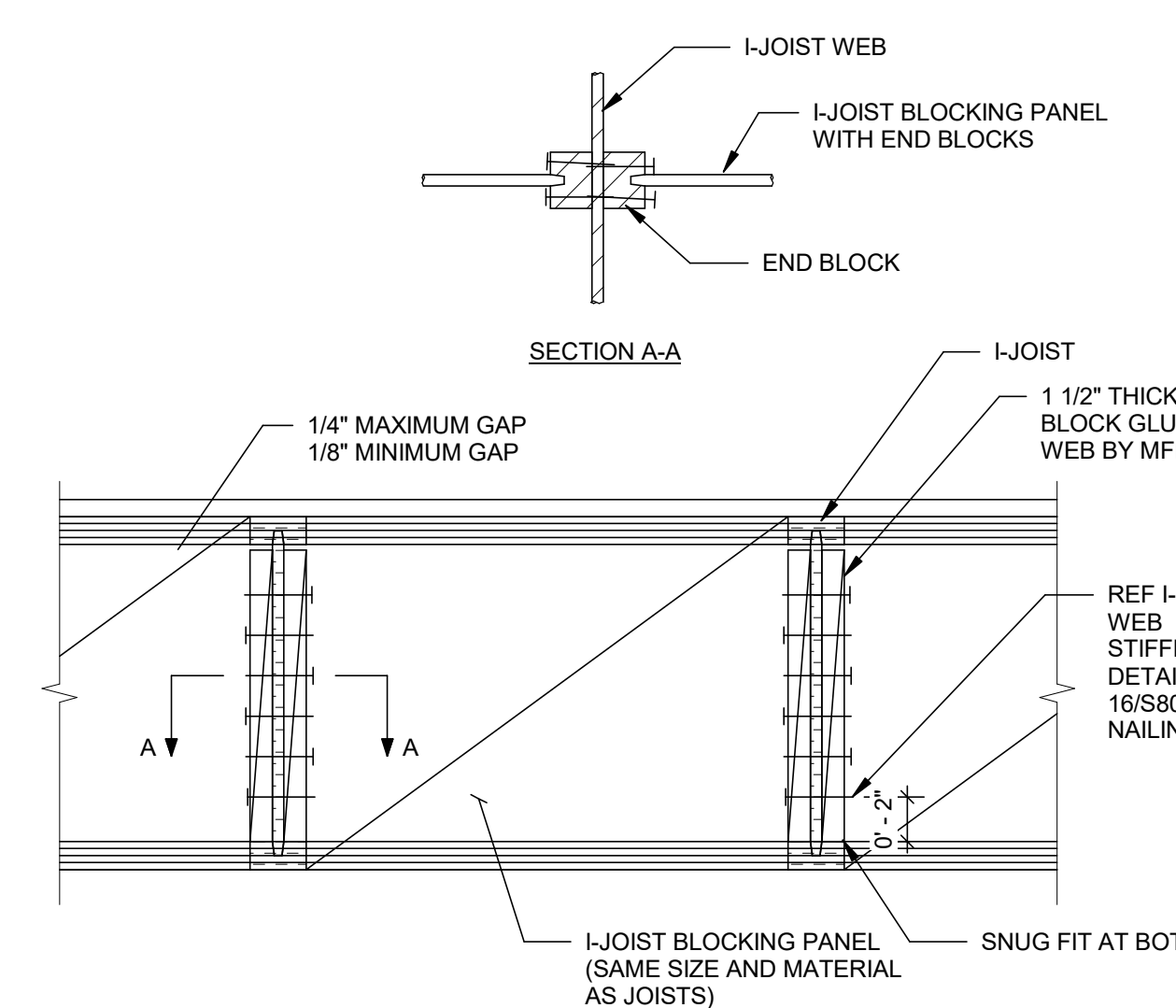
NO SCALE



C SUSPENDED CEILING AND SOFFIT

12 ALTERNATE I-JOIST BLOCKING

NO SCALE



SECTION A-A

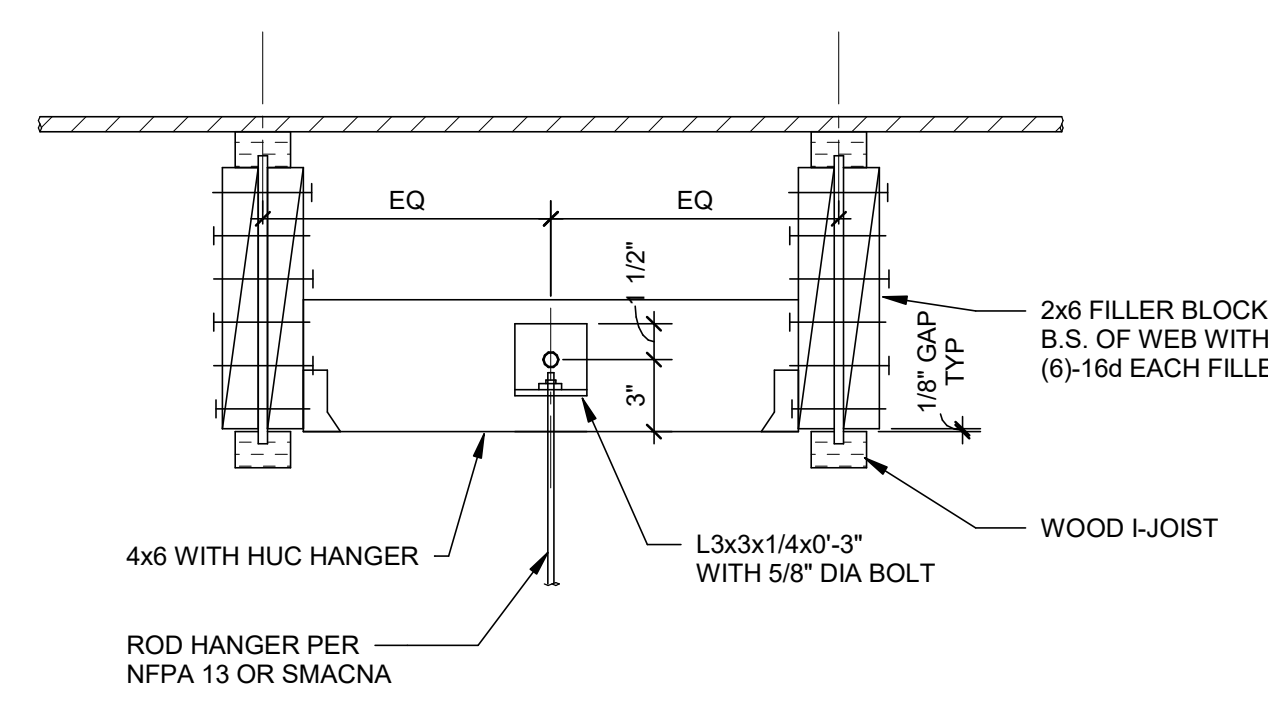
17 I-JOIST BLOCKING

NO SCALE

18 HANGER BETWEEN I-JOISTS

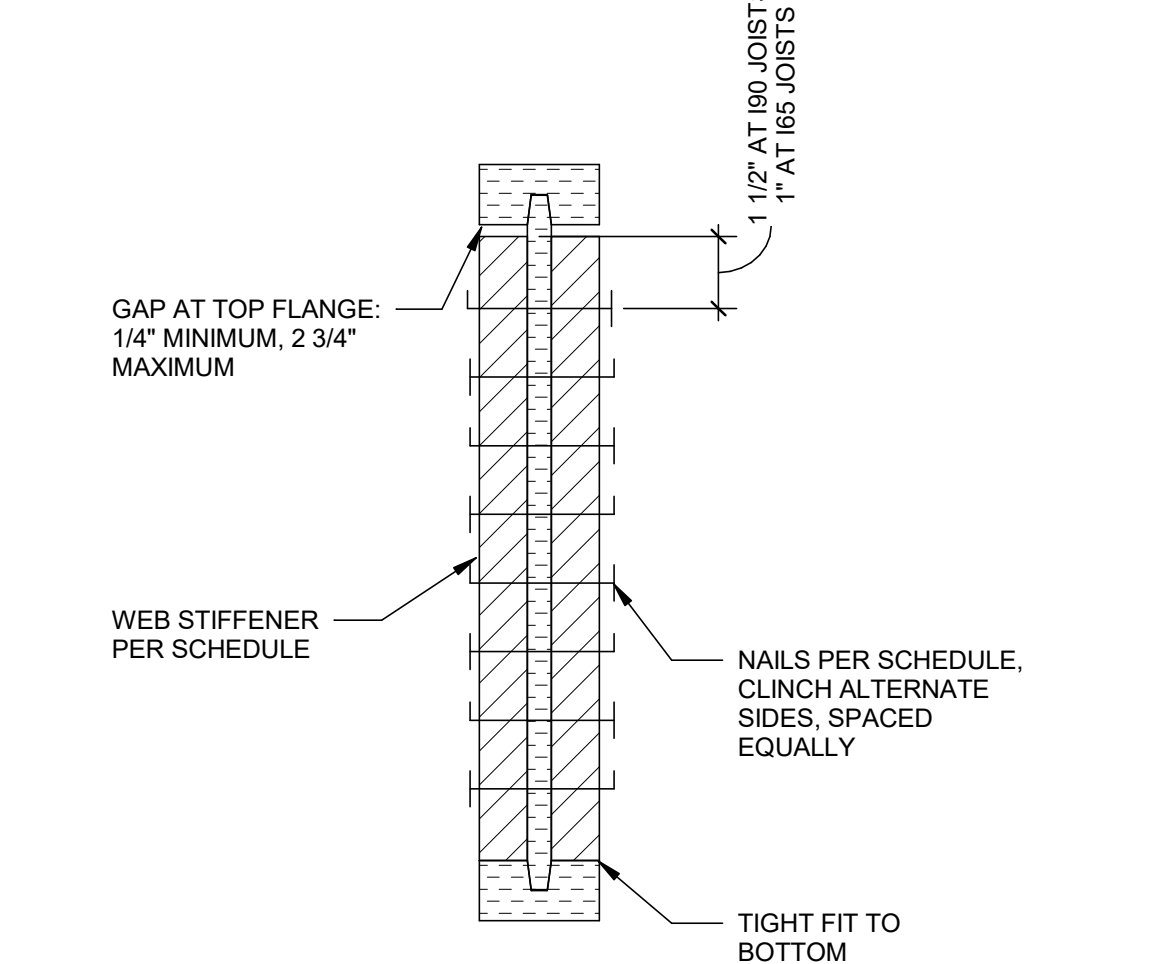
500 LB MAXIMUM

NO SCALE



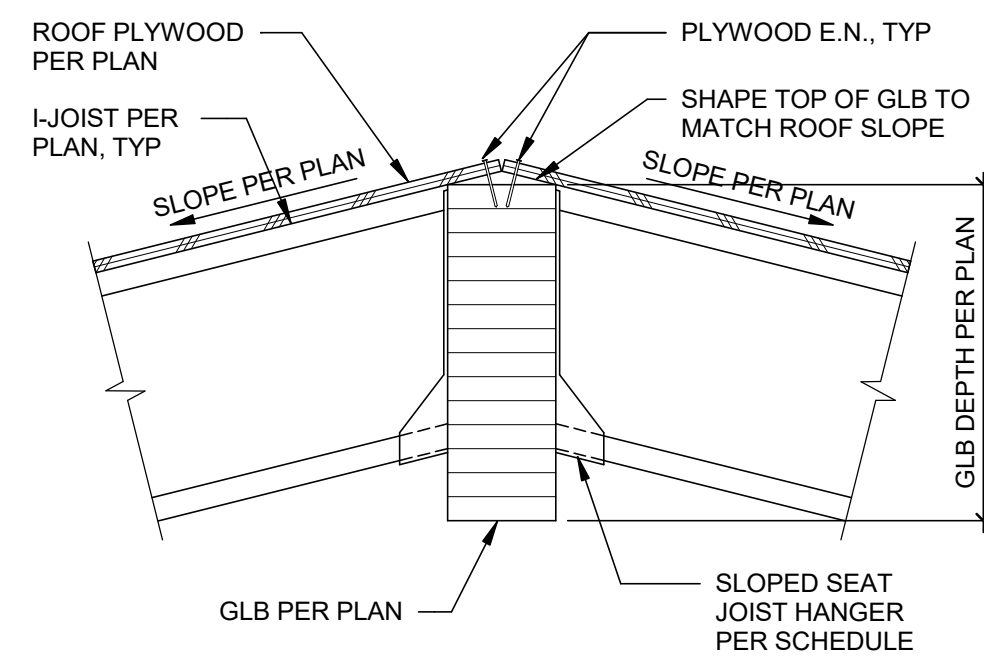
11 WOOD I-JOIST SCHEDULE

NO SCALE

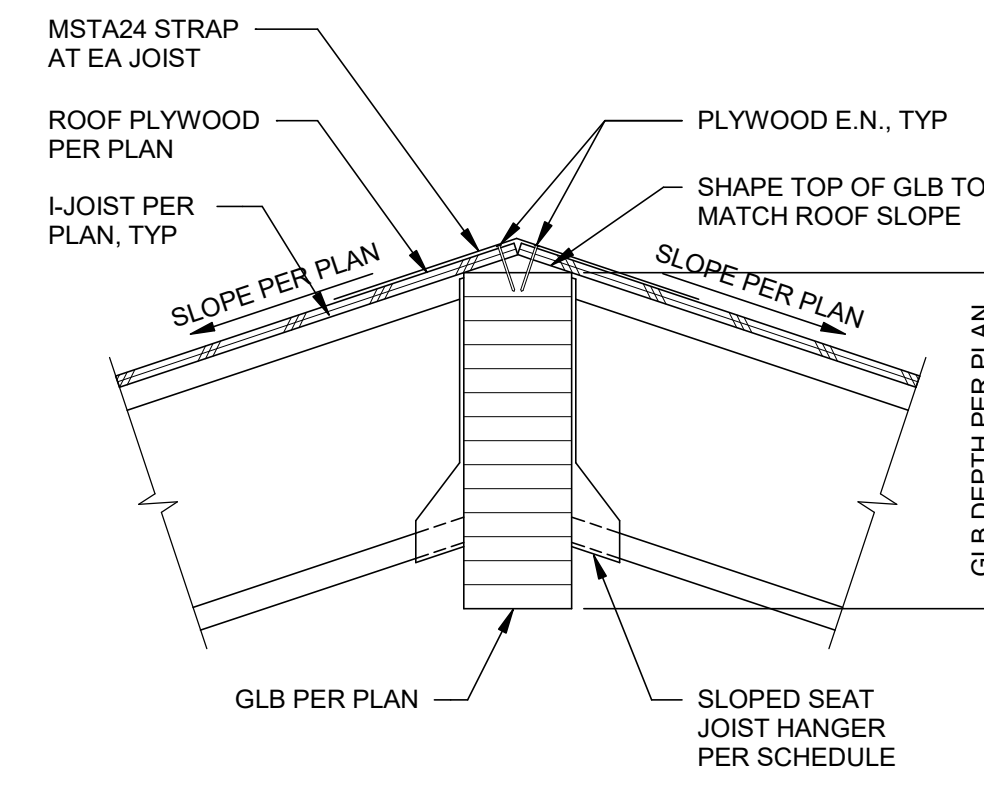


16 WOOD I-JOIST STIFFENER

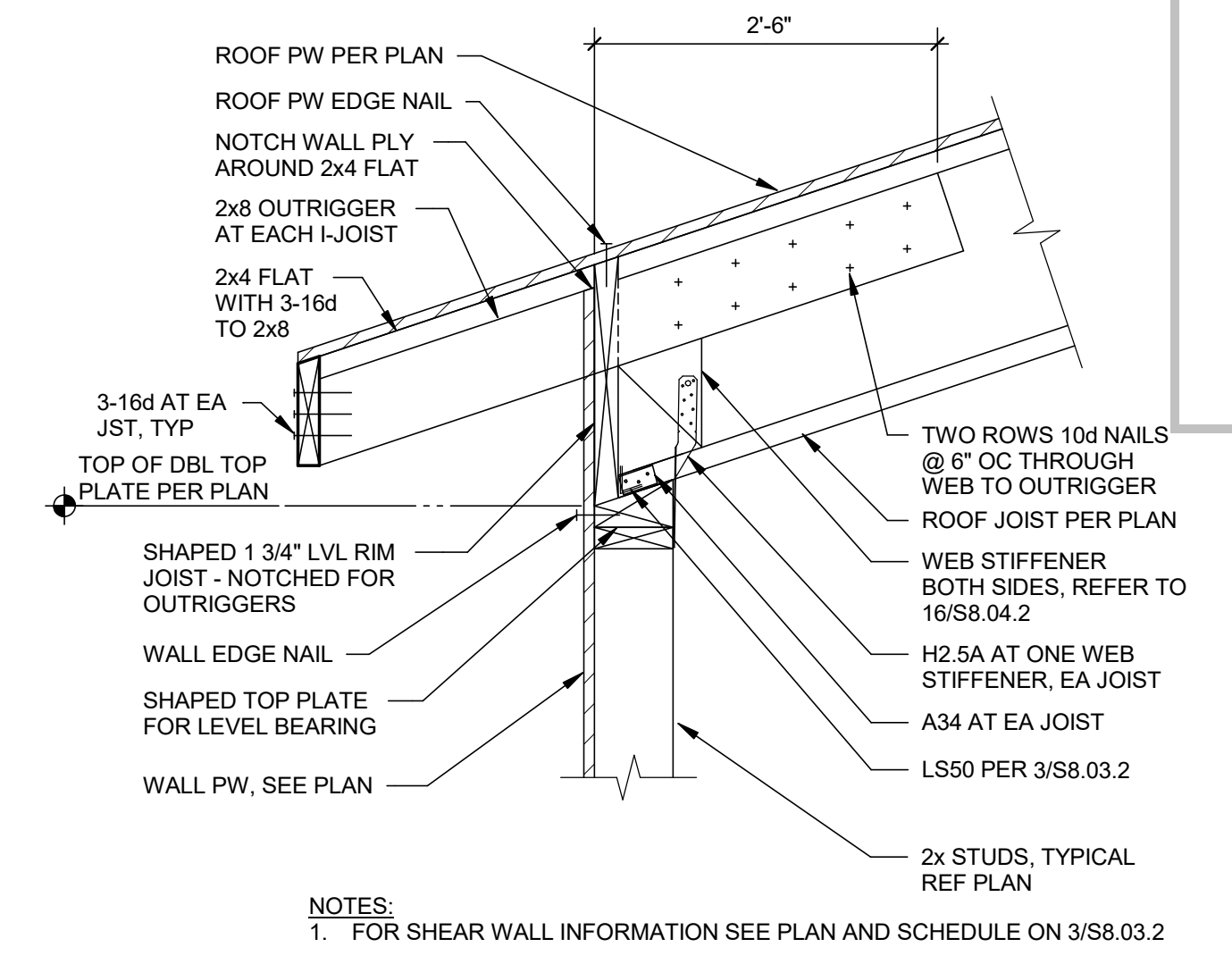
NO SCALE



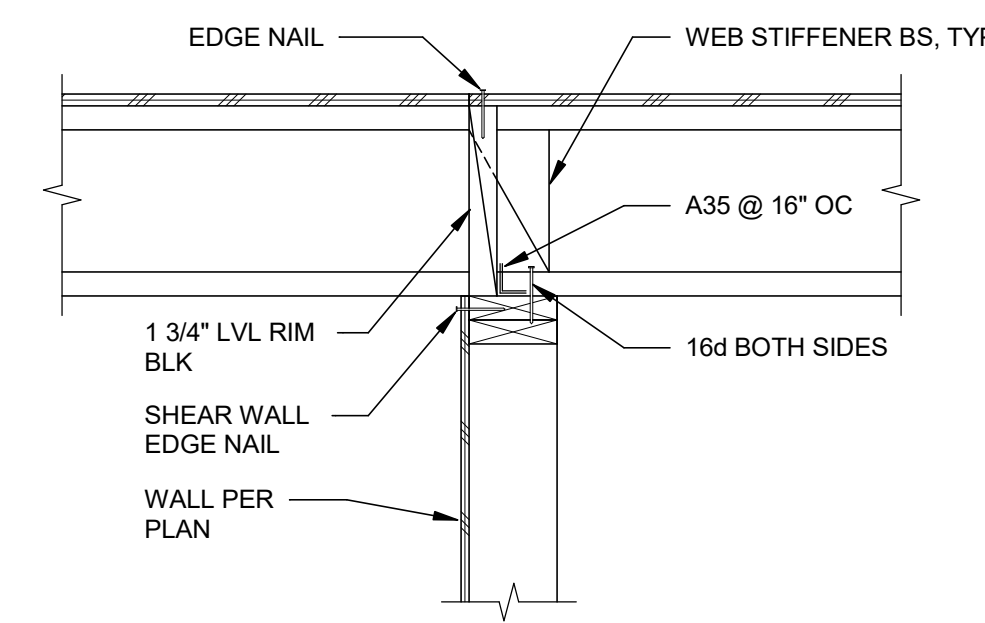
3 TYPICAL HIP BEAM DETAIL
1" = 1'-0"



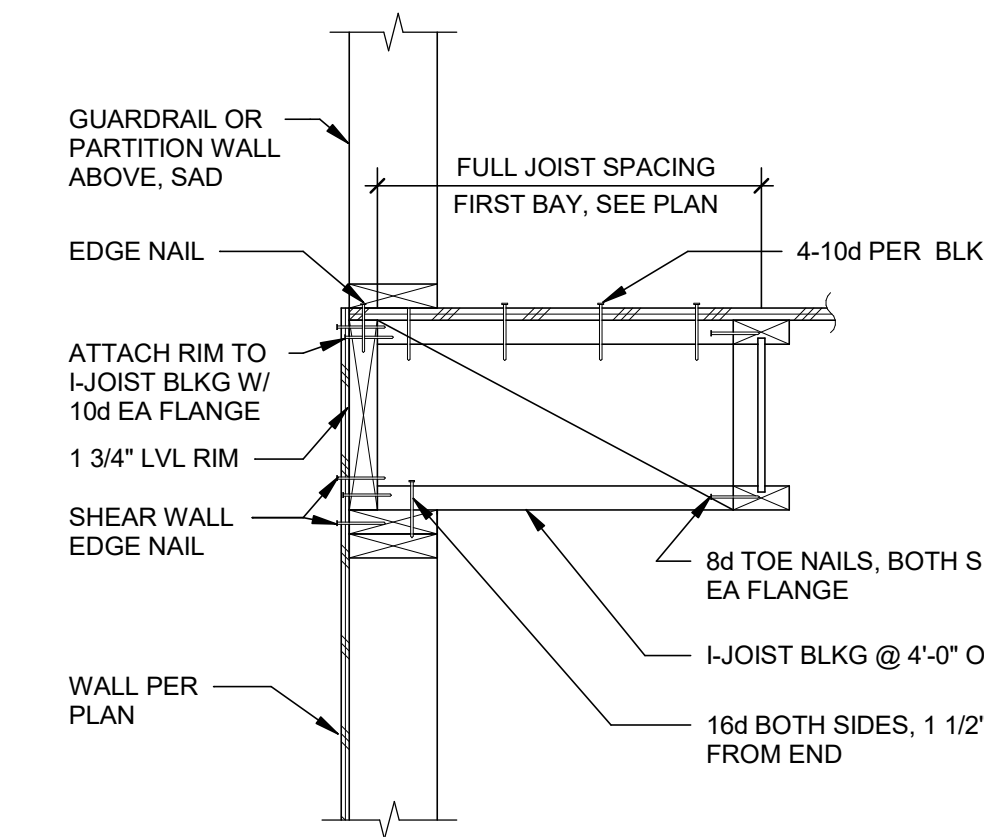
2 TYPICAL RIDGE BEAM DETAIL
1" = 1'-0"



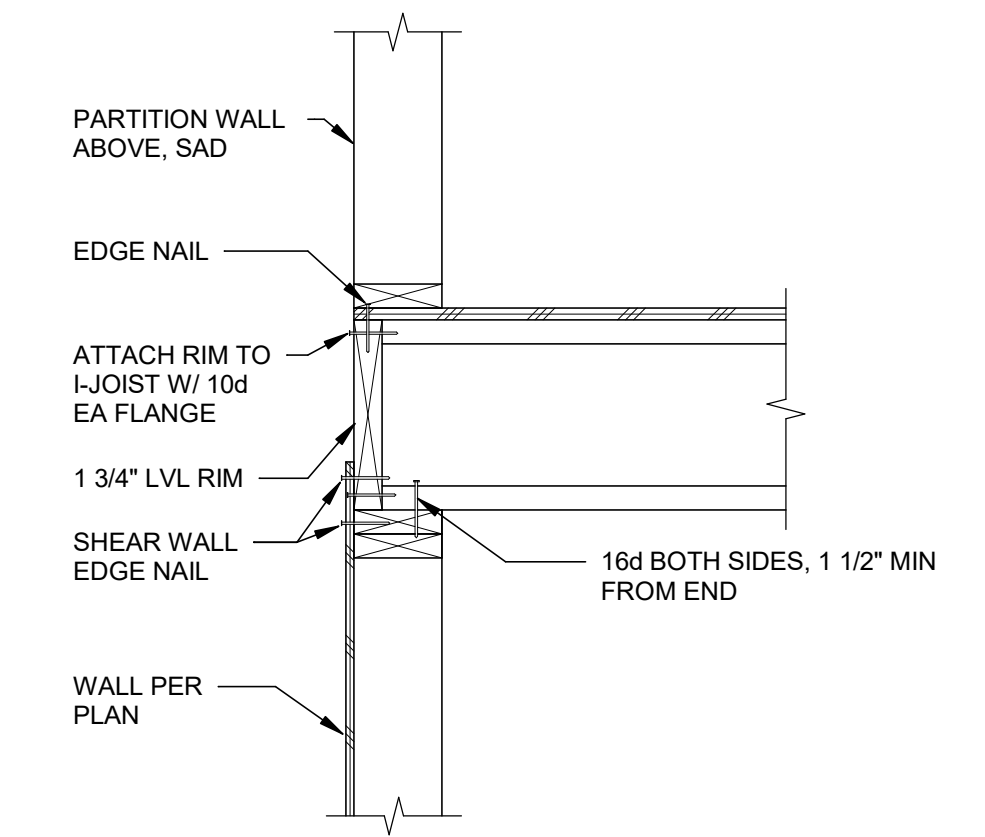
1 TYPICAL JOIST BEARING ON EXTERIOR STUD WALL
1" = 1'-0"



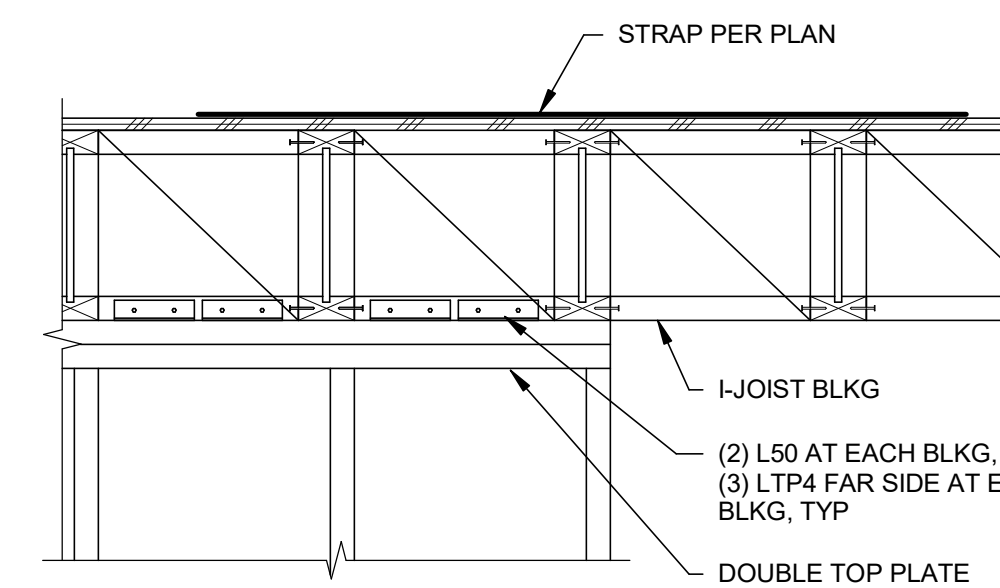
8 I-JOIST PERPENDICULAR OVER INTERIOR WALL
1" = 1'-0"



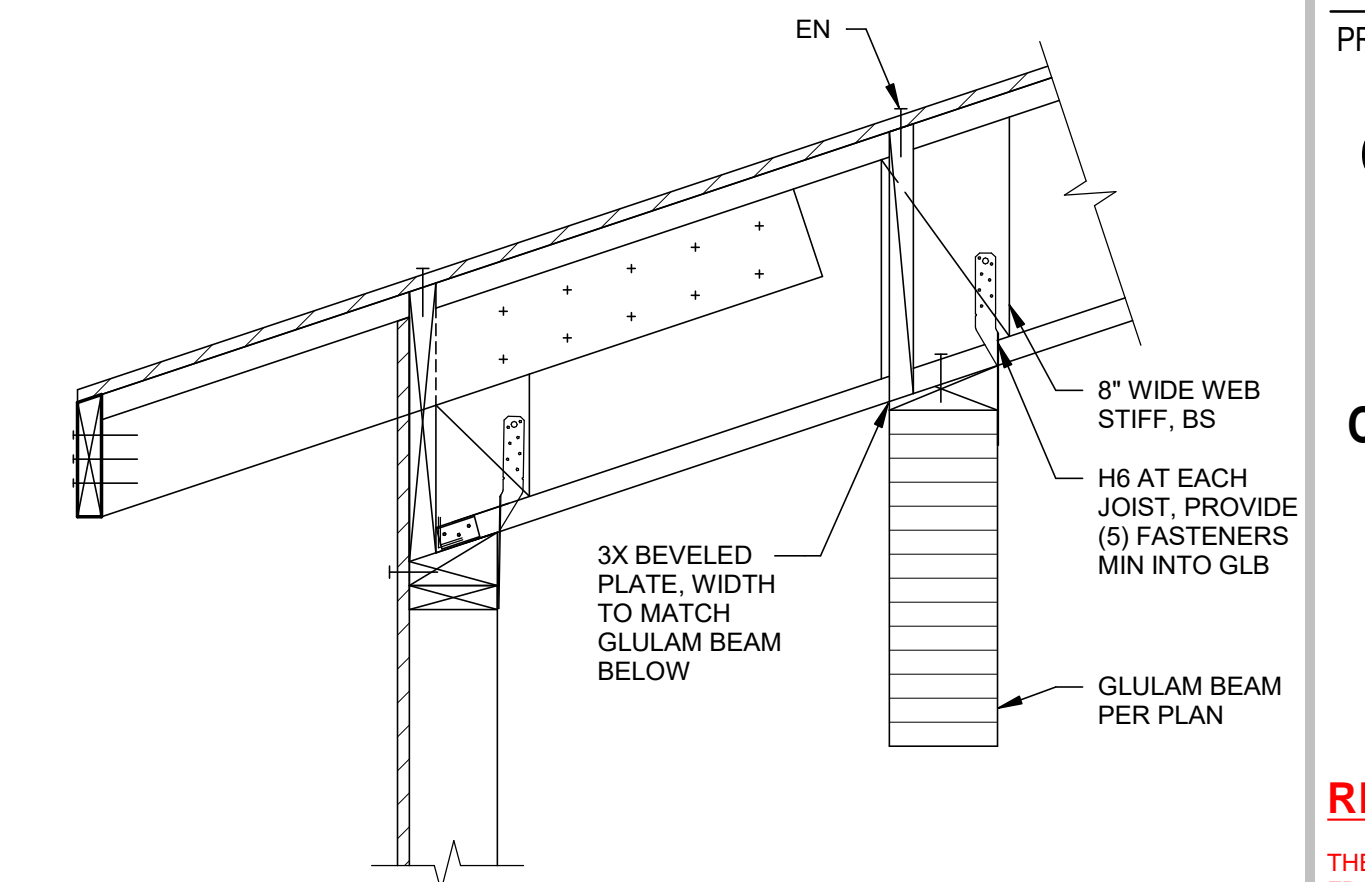
7 I-JOIST PARALLEL TO WALL
1" = 1'-0"



6 I-JOIST PERPENDICULAR TO WALL
1" = 1'-0"



12 I-JOIST PARALLEL TO WALL
1" = 1'-0"



NOTE: FOR INFO NOT SHOWN OR NOTED SEE 1/58.05.2

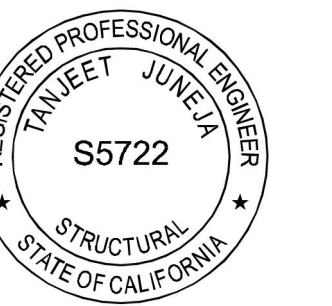
11 DETAIL
1" = 1'-0"

APPROVALS

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SEAL



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PROJECT TITLE

**CONTRA COSTA
CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION &
RENOVATION**

1690 Watermill Rd.
San Ramon, CA 94582

RECORD SET:

THESE DRAWINGS HAVE BEEN PREPARED FROM ADDENDUMS, CCD'S, ASIS AND SELECT RFI'S OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM. ONLY A SELECT FEW AS-BUILTS WERE SUBMITTED.

ISSUE TITLE

**INCREMENT 2 -
AS-BUILT - FINAL**

ISSUE DATE 08/23/2023

NOLL & TAM JOB NUMBER 21630

REVISIONS

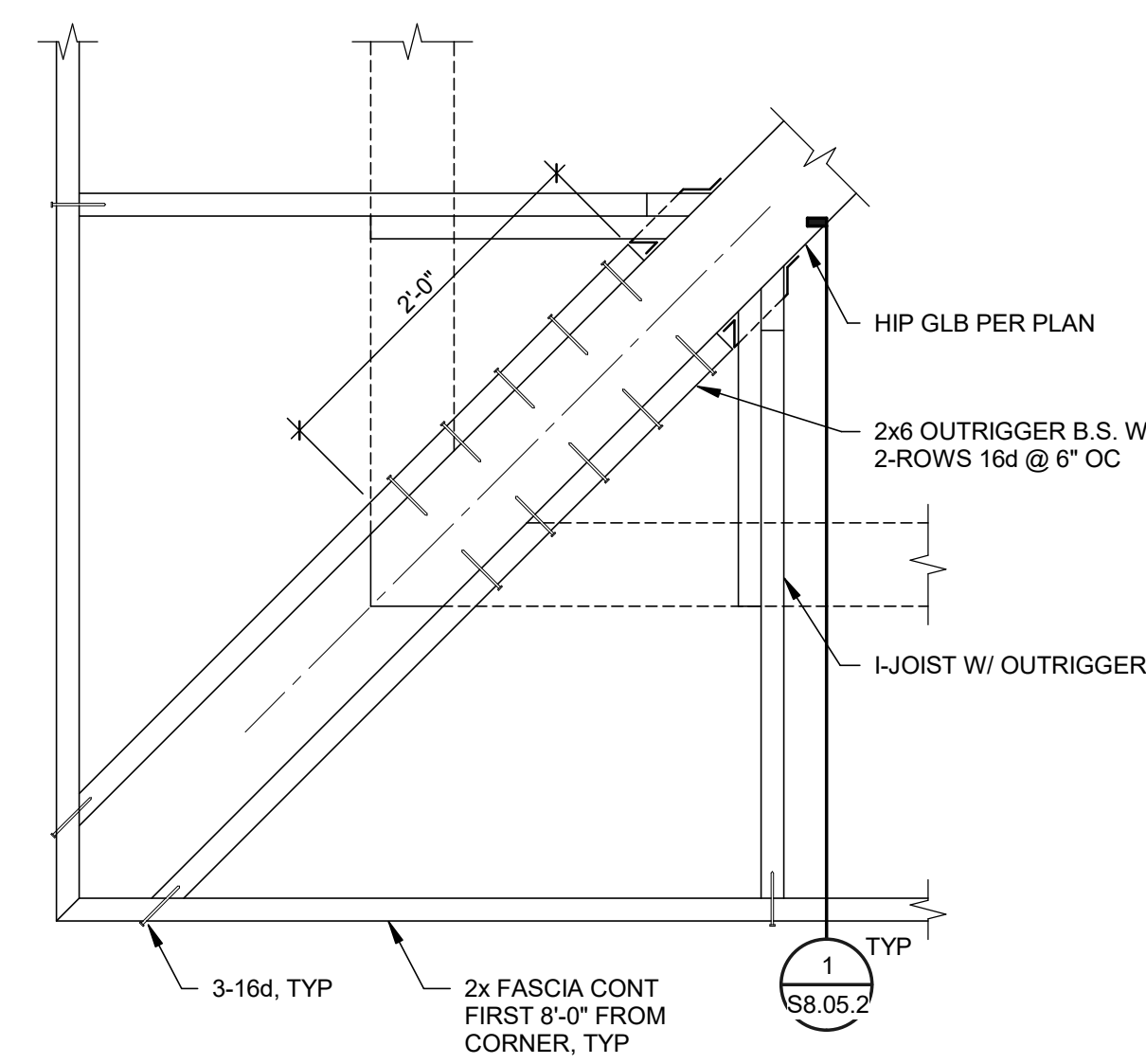
| DATE | DESCRIPTION |
|------|-------------|
| TBD | TBD |

SHEET TITLE

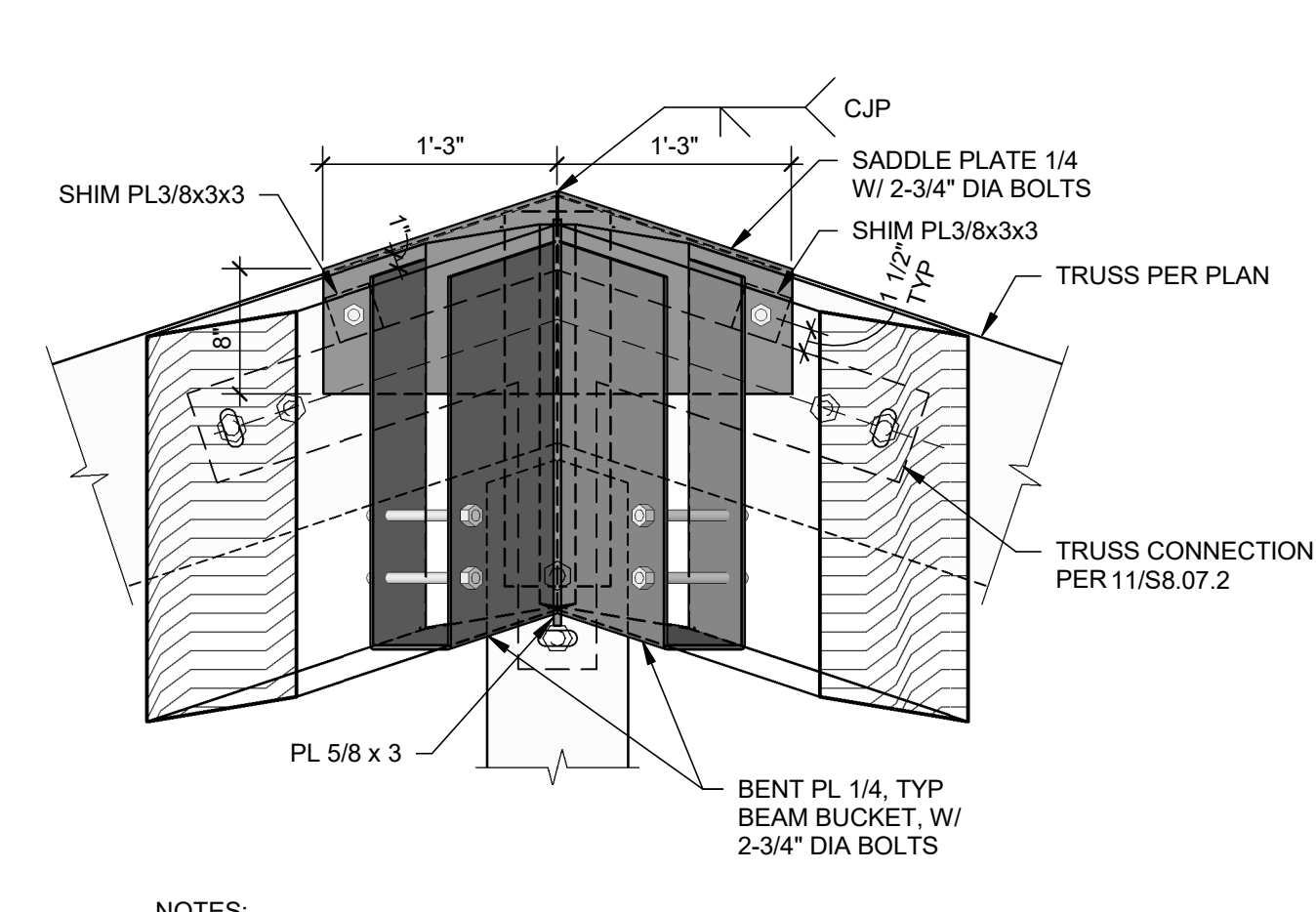
**WOOD I-JOIST
DETAILS**

SHEET NUMBER

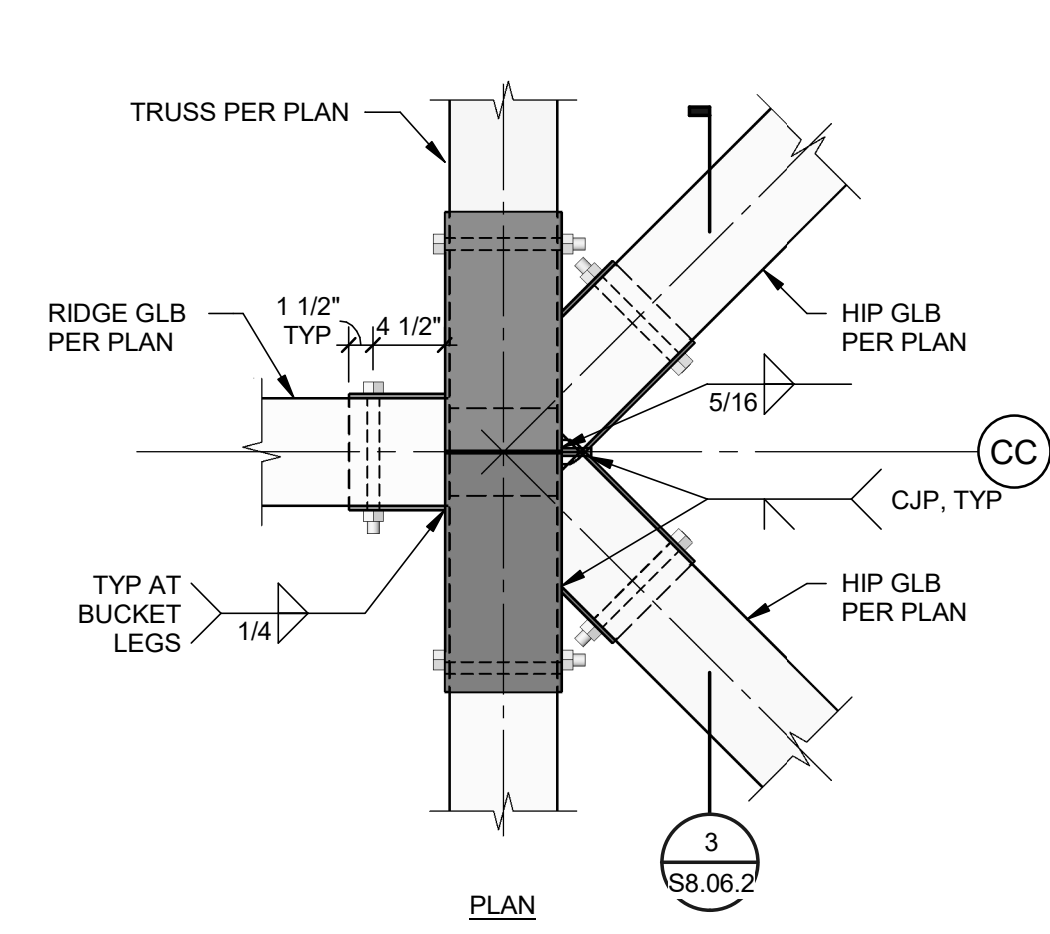
S8.05.2



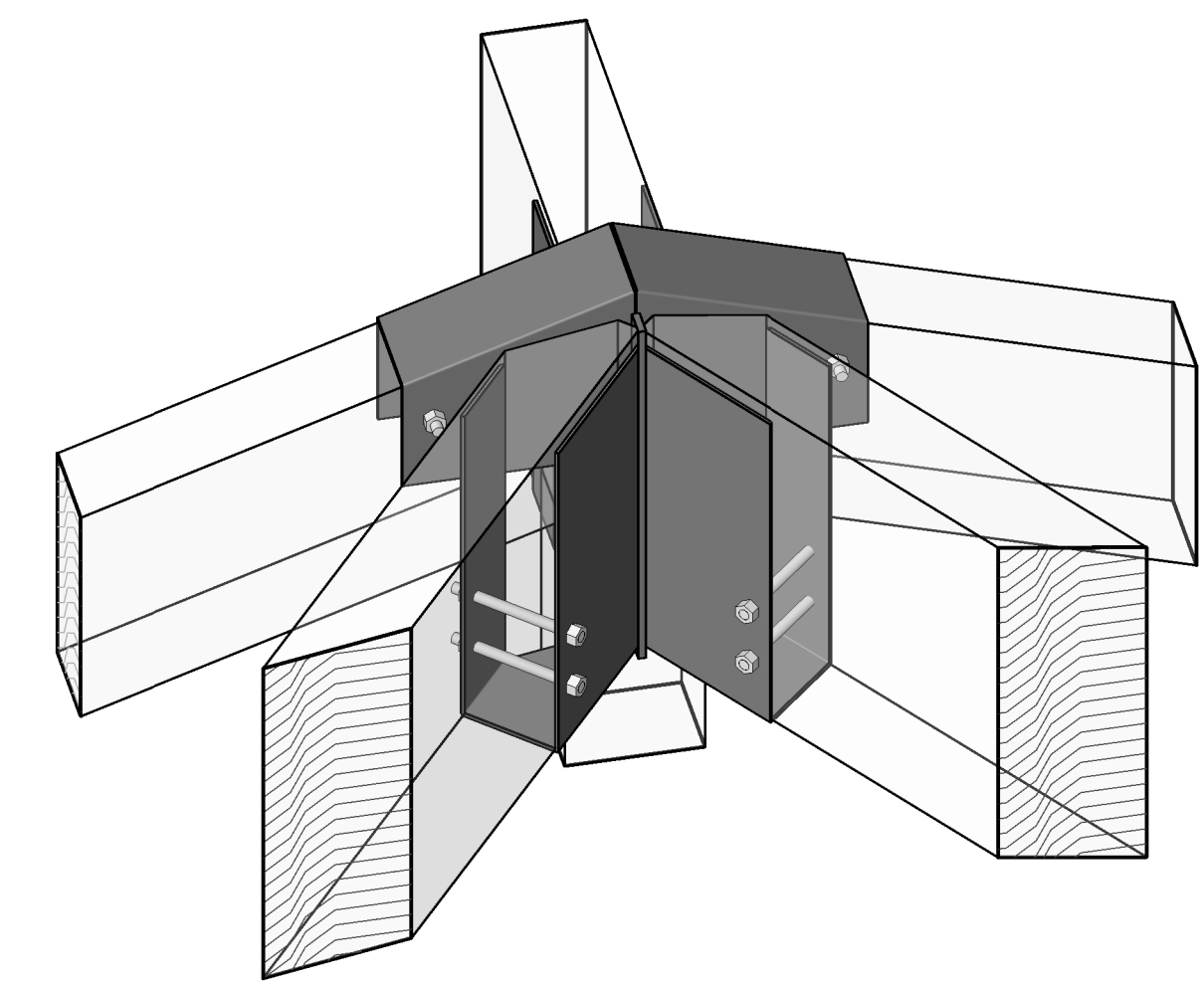
4 TYPICAL ROOF CORNER
1" = 1'-0"



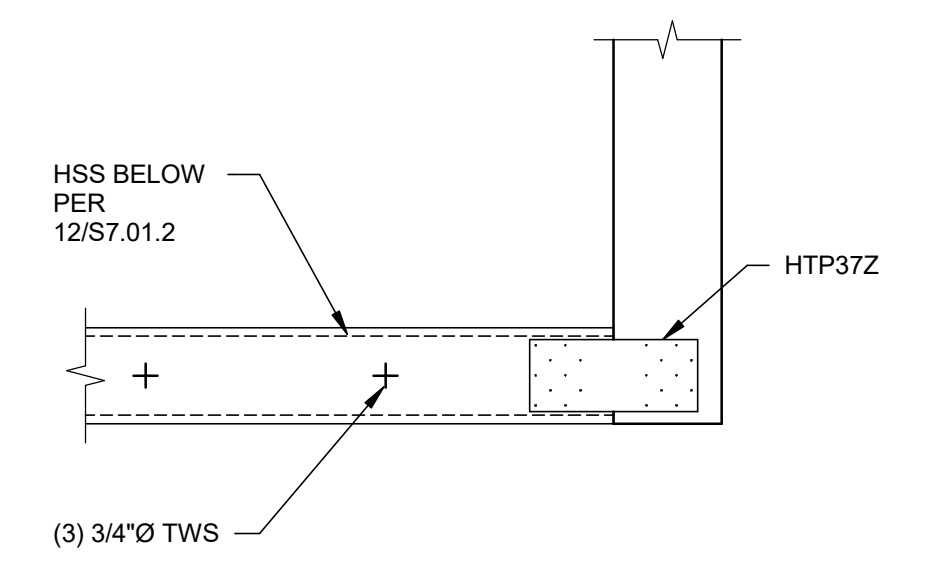
3 SECTION
1" = 1'-0"



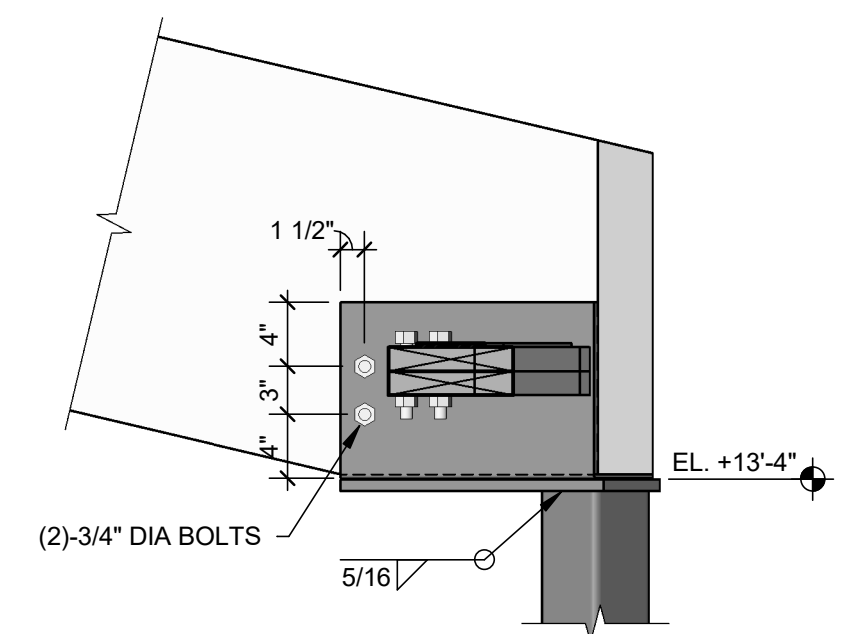
2 HIP AND RIDGE BEAMS TO TRUSS CONNECTION
1" = 1'-0"



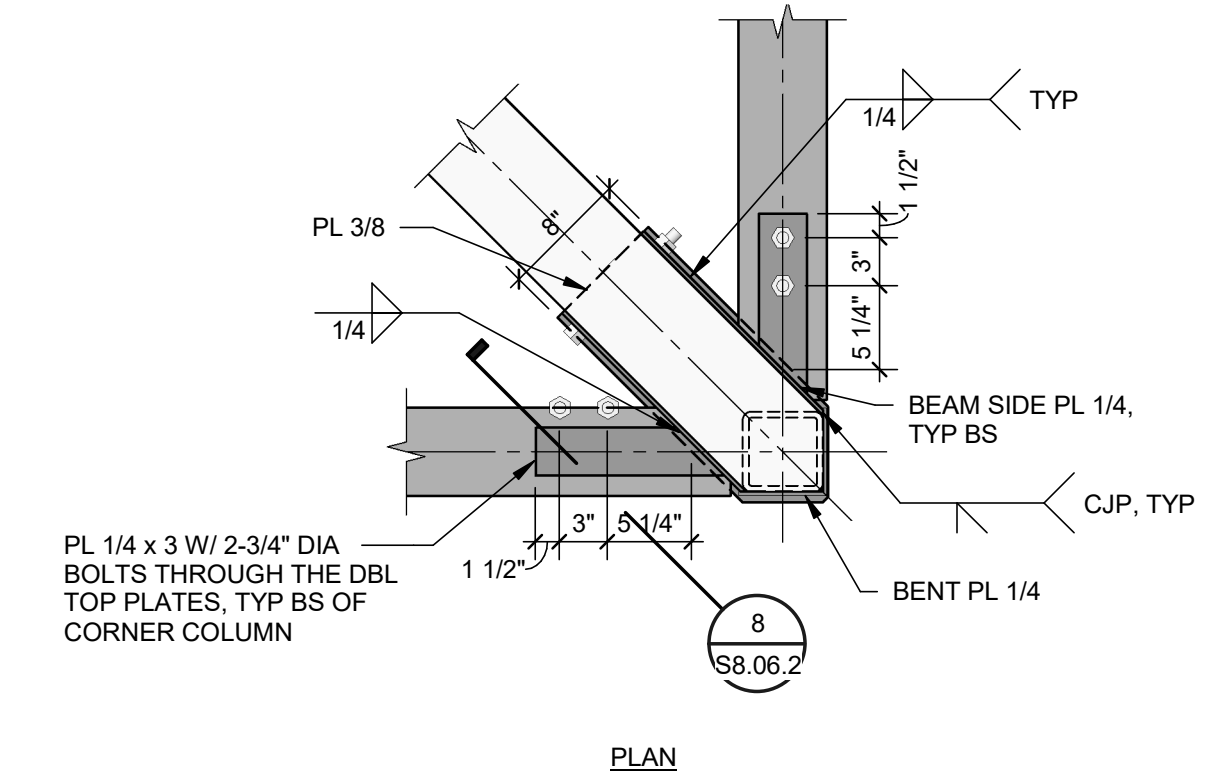
1 HIP AND RIDGE BEAMS TO TRUSS ISOMETRIC



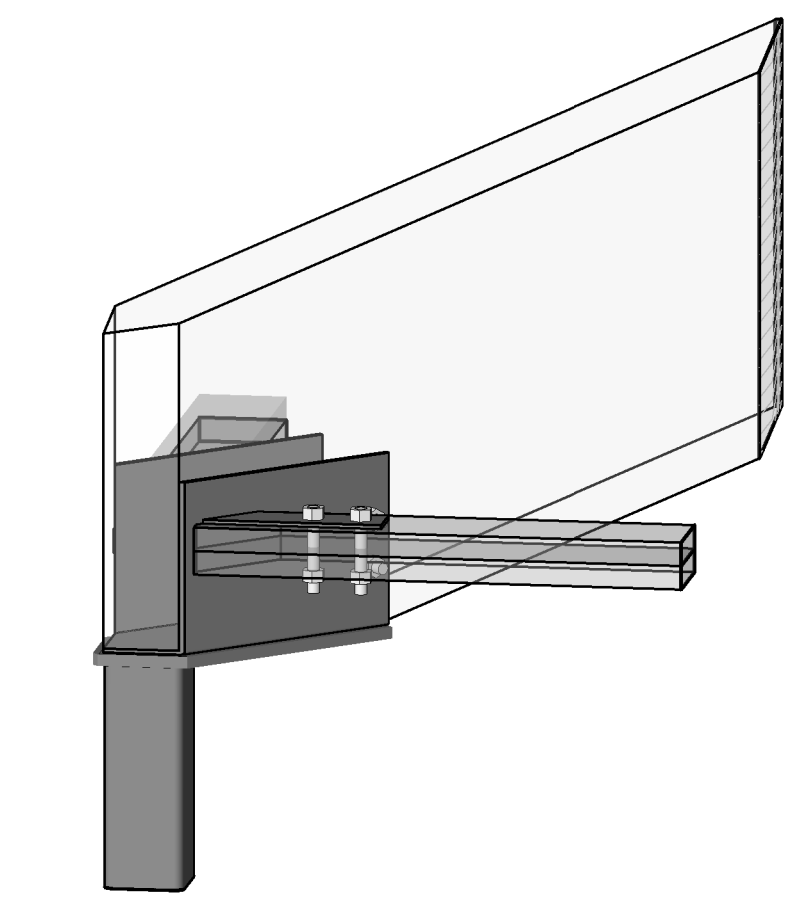
9 DETAIL
NO SCALE



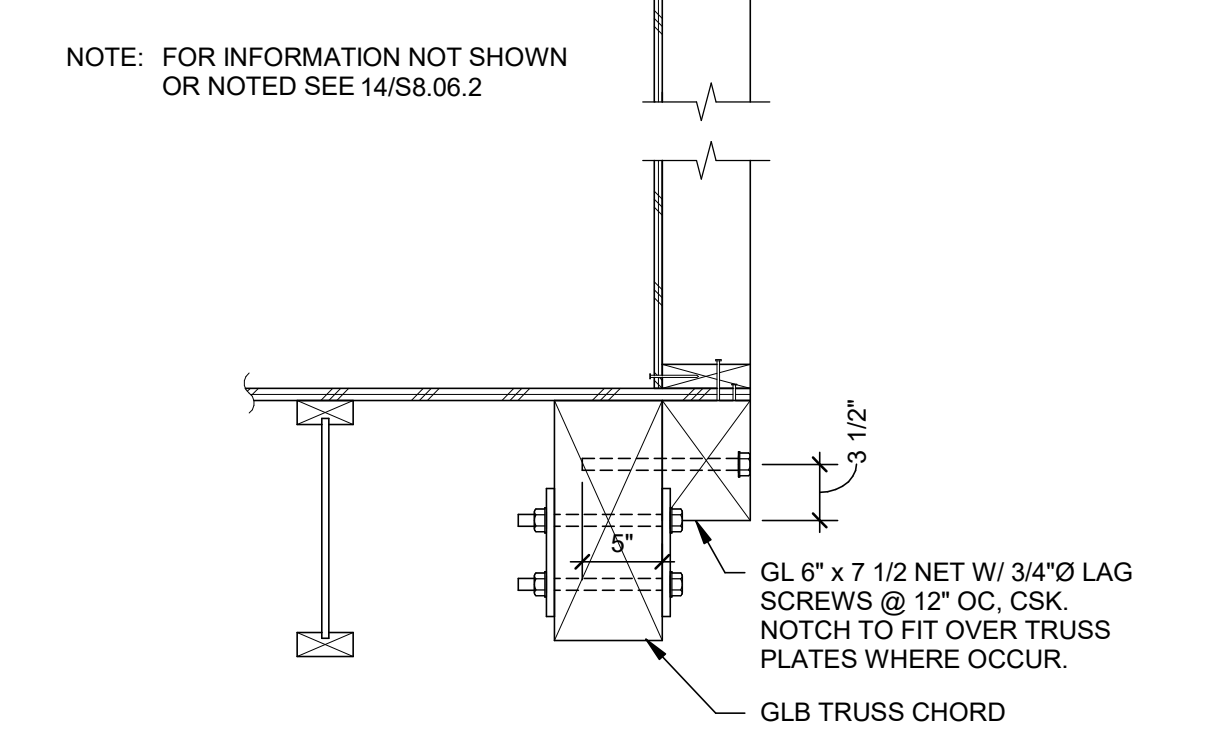
8 SECTION
1" = 1'-0"



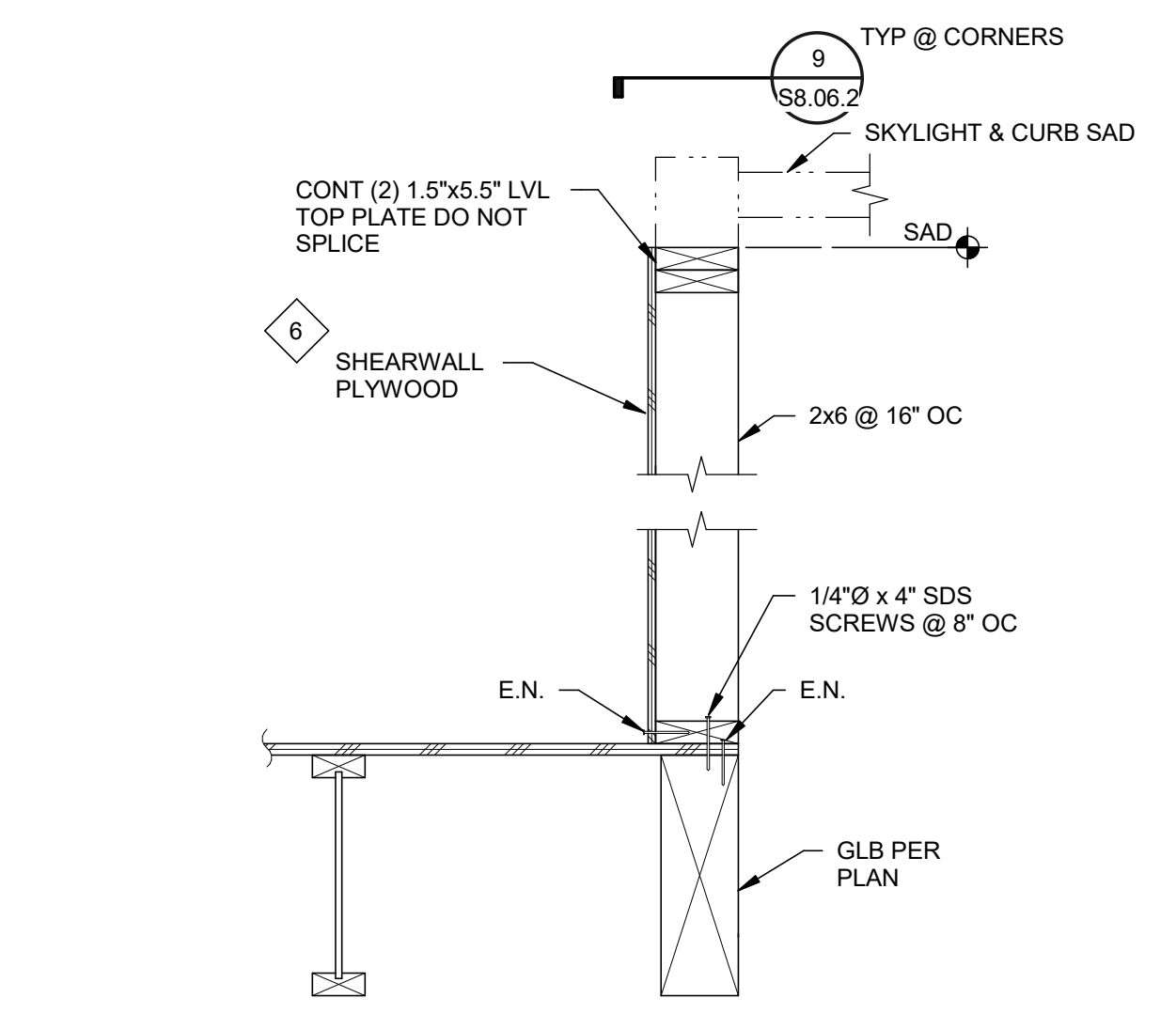
7 HIP BEAM TO CORNER COLUMN CONNECTION
1" = 1'-0"



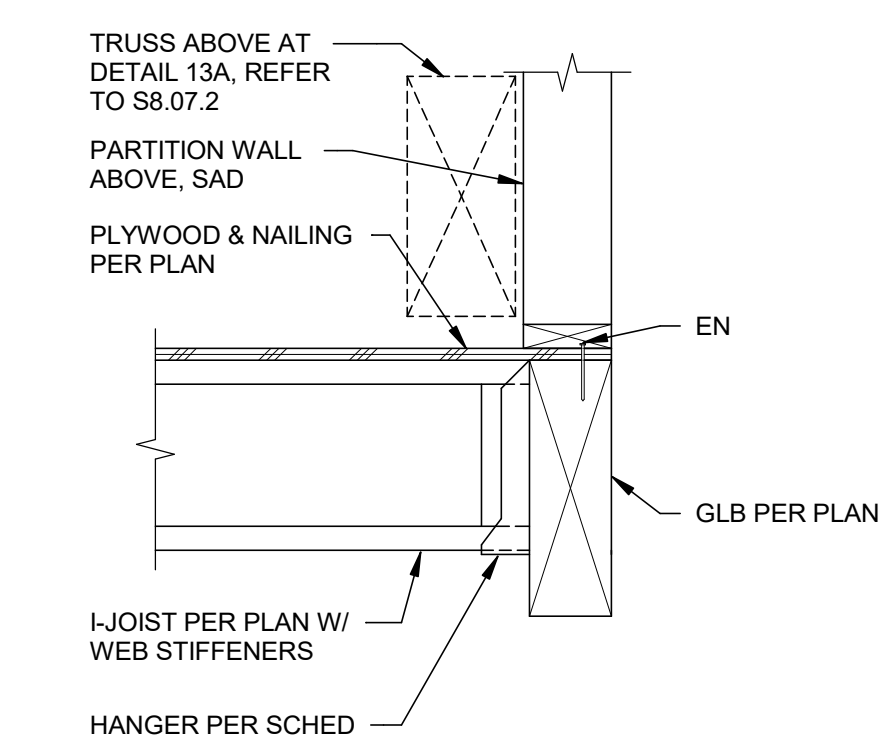
6 HIP BEAM TO CORNER COLUMN ISOMETRIC



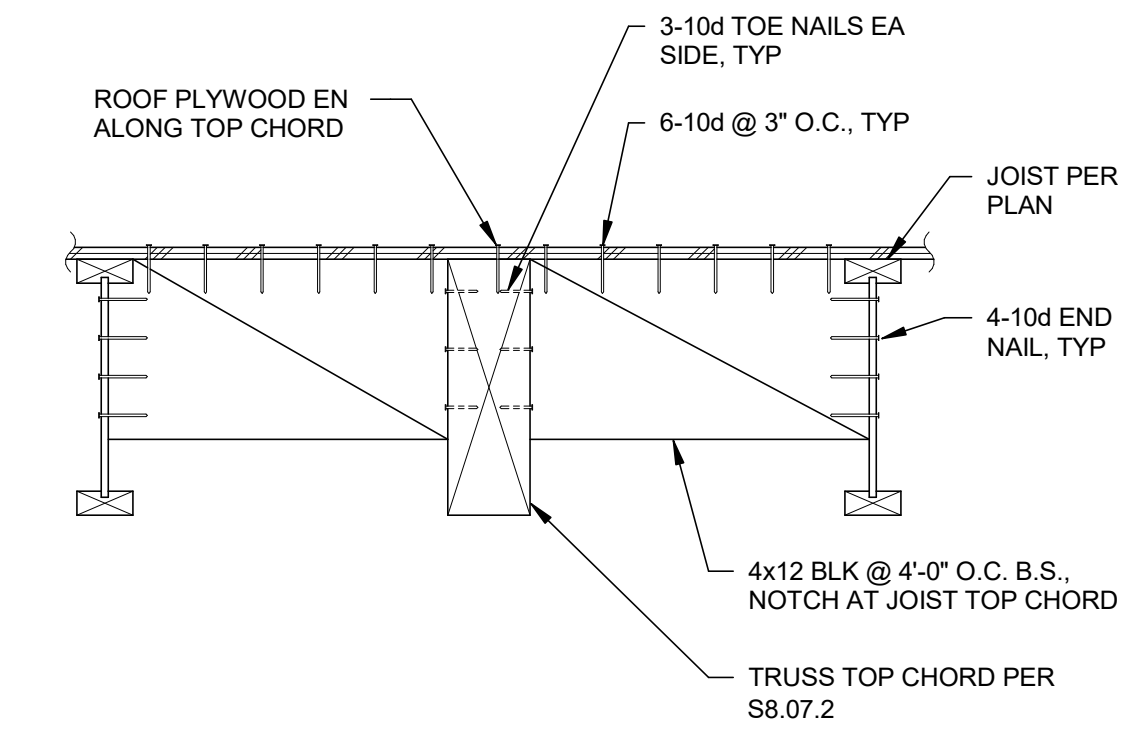
15 SKYLIGHT WALL AT TRUSS
1" = 1'-0"



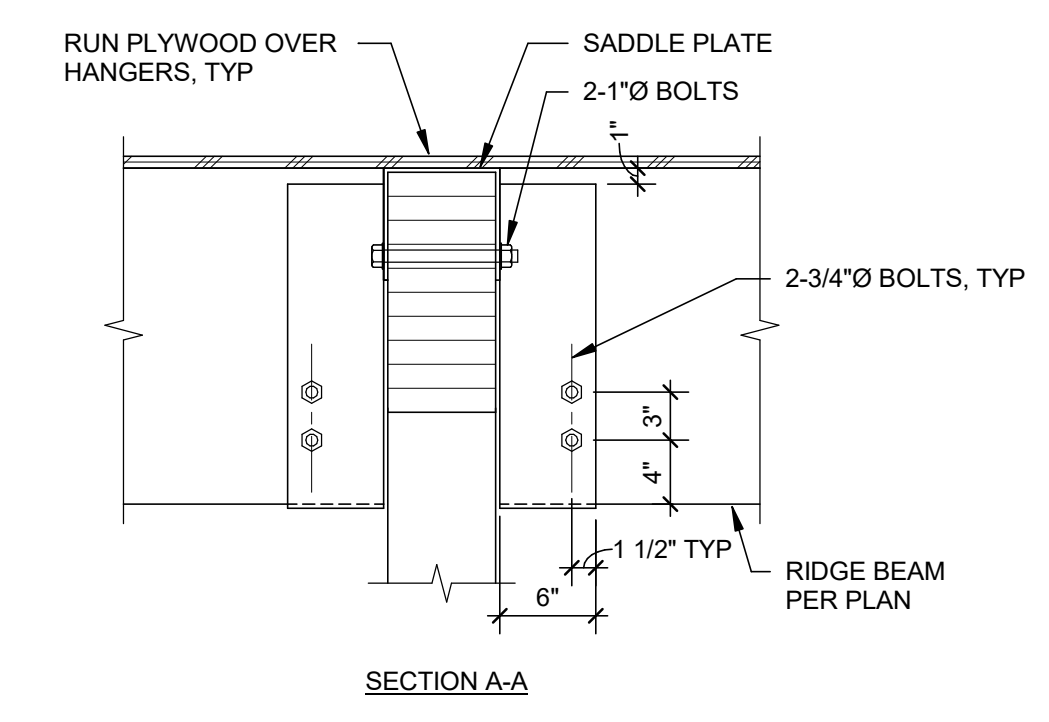
14 TYPICAL SKYLIGHT WALL
1" = 1'-0"



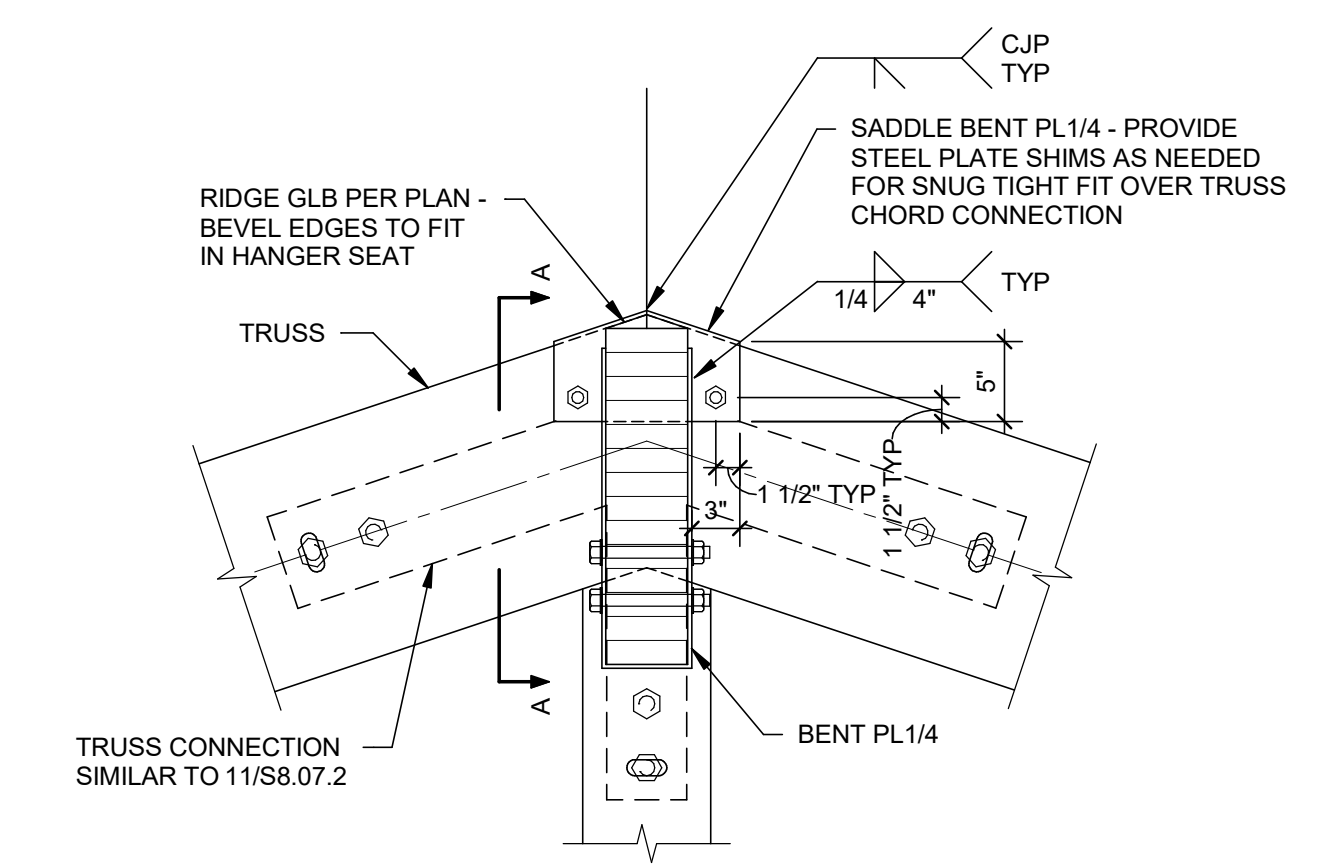
13 DETAIL
1" = 1'-0"



12 ROOF AT TRUSS TOP CHORD
1" = 1'-0"



16 RIDGE BEAM CONNECTION
1" = 1'-0"



11 TRUSS CONNECTION SIMILAR TO 11/S8.07.2
1" = 1'-0"

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PROJECT TITLE

**CONTRA COSTA
CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION &
RENOVATION**

1690 Watermill Rd.
San Ramon, CA 94582

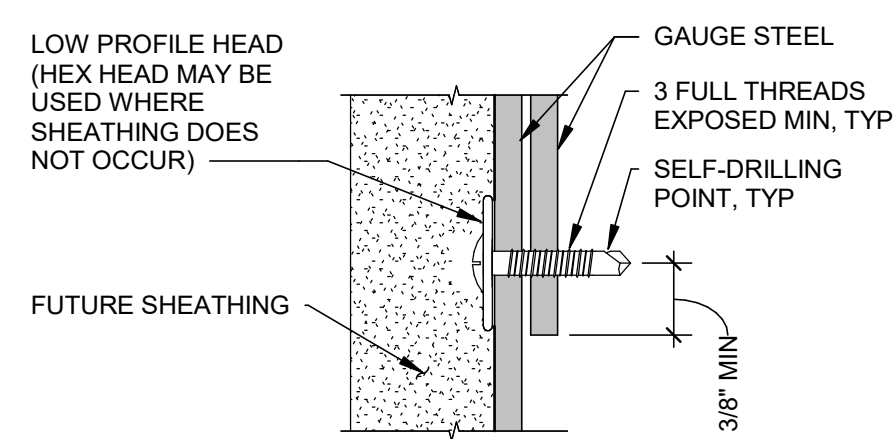
RECORD SET:
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ISSUE TITLE
INCREMENT 2 - AS-BUILT - FINAL

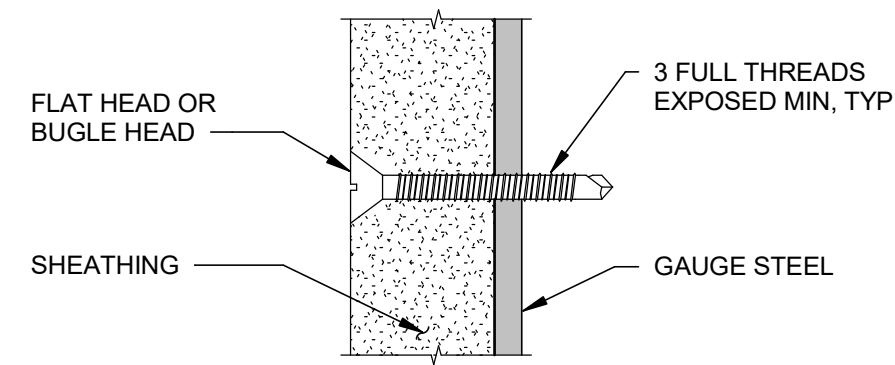
| | |
|-----------------------|-------------|
| ISSUE DATE | 08/23/2023 |
| NOLL & TAM JOB NUMBER | 21630 |
| REVISIONS | |
| DATE | DESCRIPTION |
| TBD | TBD |

SHEET TITLE
WOOD DETAILS

SHEET NUMBER
S8.06.2

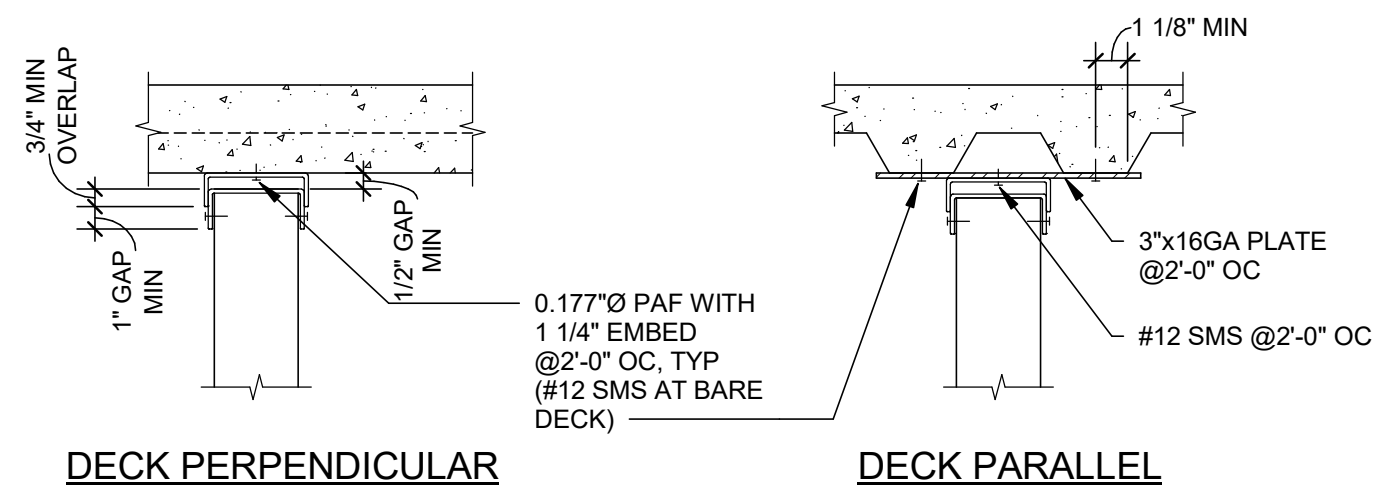


STEEL TO STEEL



SHEATHING TO STEEL

5 SHEET METAL SCREW (SMS)
1 1/2" = 1'-0"



DECK PERPENDICULAR

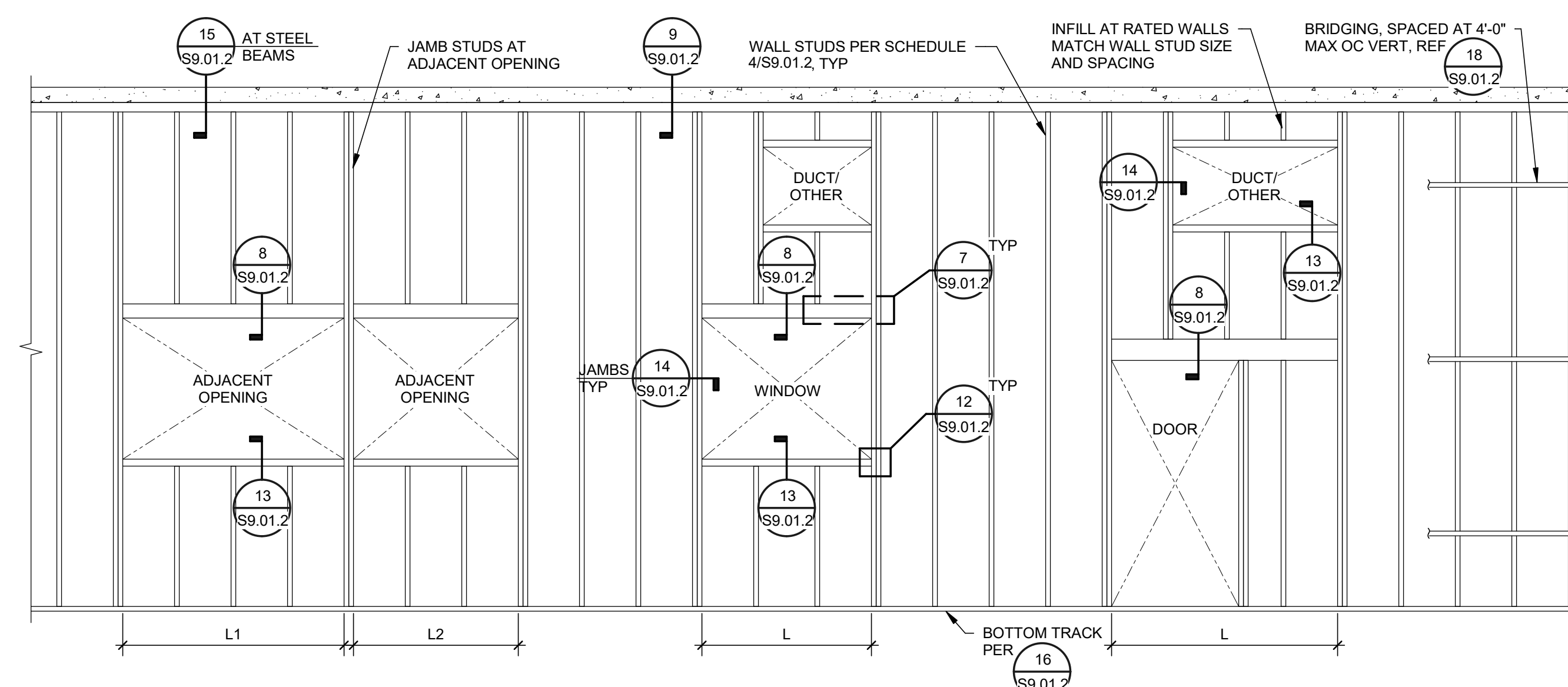
DECK PARALLEL

4 INTERIOR WALL STUD SCHEDULE
NO SCALE

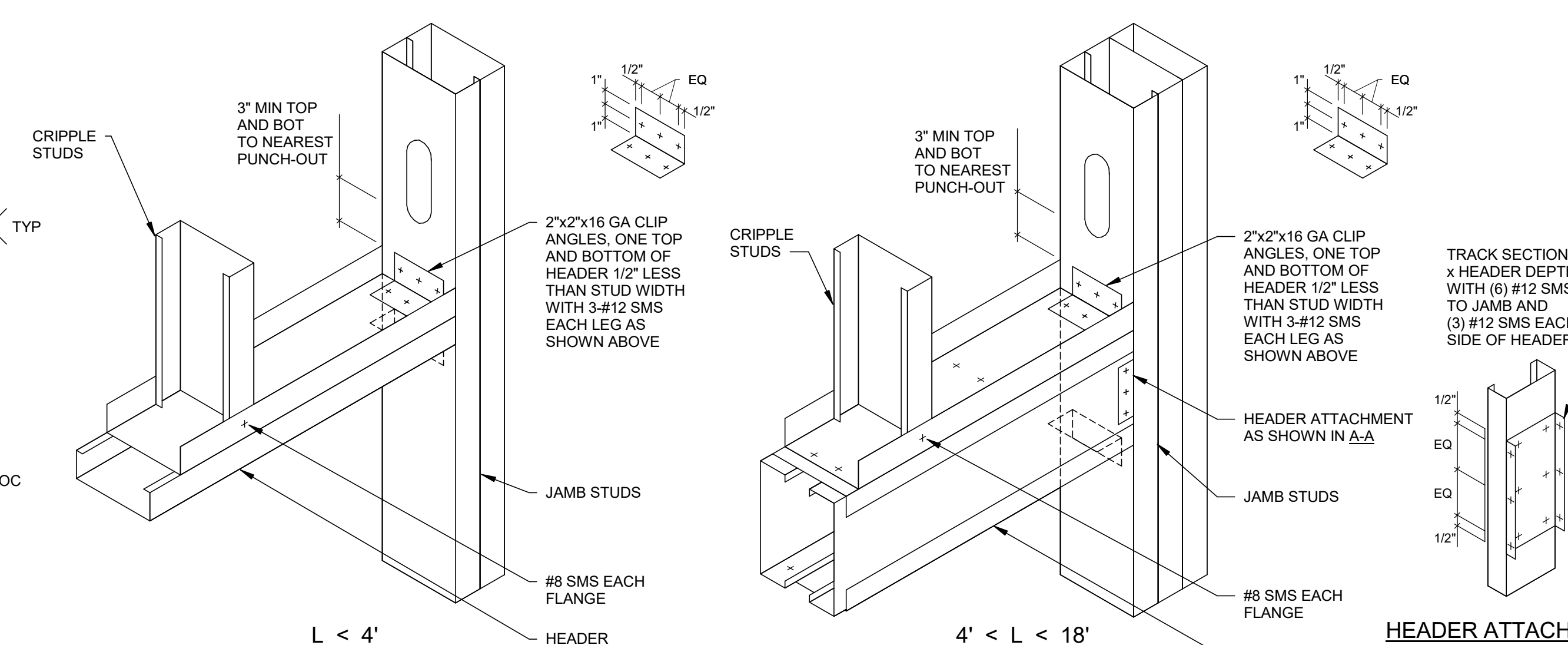
| NOMINAL SIZE | CATALOG SIZE | MINIMUM PROPERTIES | | | SPACING (INCHES) | MAX HT (FEET) |
|----------------|--------------|-----------------------|-----------------------|-----------|---------------------------|---------------|
| | | lx (IN ²) | Sx (IN ²) | Ma (IN-K) | | |
| WALL STUDS | | | | | | |
| 2 1/2" x 20 GA | 250S125-33 | 0.1780 | 0.1420 | 2.4100 | 12.0000 | 13'-2" |
| 3 5/8" x 20 GA | 362S125-33 | 0.4150 | 0.2010 | 3.5900 | 16.0000 | 16'-0" |
| 3 5/8" x 18 GA | 362S125-43 | 0.5360 | 0.2850 | 5.3100 | 16.0000 | 17'-5" |
| 3 5/8" x 16 GA | 362S125-54 | 0.6550 | 0.3410 | 6.6200 | 16.0000 | 18'-7" |
| 6" x 20 GA | 600S125-33 | 1.4090 | 0.4700 | 6.3200 | 16.0000 | 23'-9" |
| 6" x 18 GA | 600S125-43 | 1.8170 | 0.6060 | 9.4600 | 16.0000 | 26'-1" |
| 6" x 16 GA | 600S125-54 | 2.2360 | 0.7450 | 17.3400 | 12.0000 | 27'-11" |
| WALL TRACKS | | | | | | |
| 2 1/2" x 16 GA | 250T125-54 | 0.2970 | 0.1880 | 5.6400 | TYP TRACK AT 2 1/2" STUDS | |
| 2 1/2" x 16 GA | 250T150-54 | 0.3250 | 0.1970 | 5.8900 | TOP TRACK | |
| 2 1/2" x 16 GA | 250T200-54 | 0.3710 | 0.2090 | 6.2500 | CAPPING TRACK | |
| 3 5/8" x 16 GA | 362T125-54 | 0.6780 | 0.3120 | 9.3400 | TYP TRACK AT 3 5/8" STUDS | |
| 3 5/8" x 16 GA | 362T150-54 | 0.7350 | 0.3250 | 9.7400 | TOP TRACK | |
| 3 5/8" x 16 GA | 362T200-54 | 0.8320 | 0.3450 | 10.3400 | CAPPING TRACK | |
| 6" x 16 GA | 600T125-54 | 2.2410 | 0.5920 | 17.7300 | TYP TRACK AT 6" STUDS | |
| 6" x 16 GA | 600T150-54 | 2.4000 | 0.6090 | 18.2400 | TOP TRACK | |
| 6" x 16 GA | 600T200-54 | 2.6410 | 0.7170 | 21.4800 | CAPPING TRACK | |

3 METAL STUD FRAMING NOTES
NO SCALE

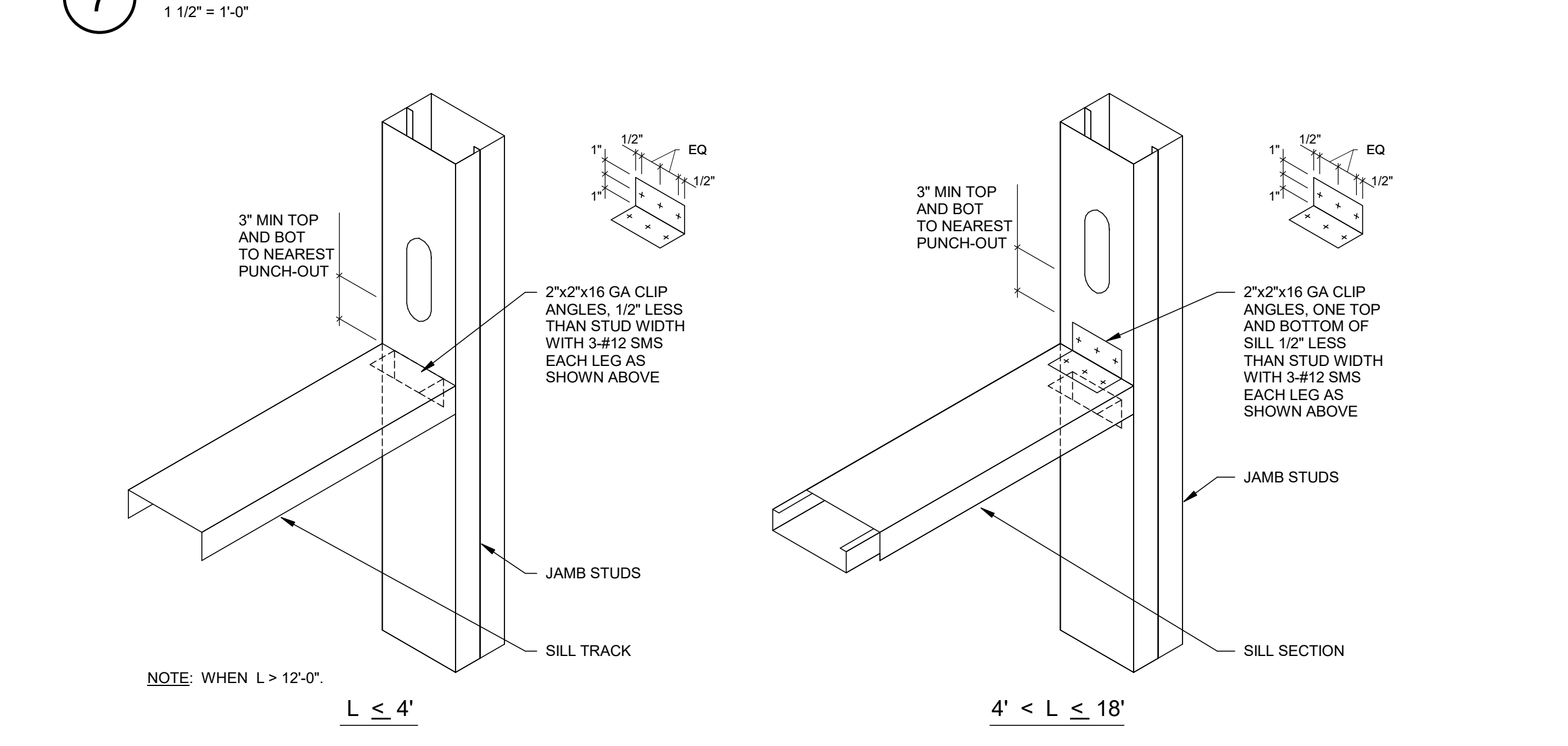
| WALL SHEATHING | FASTENER |
|--|--|
| SINGLE PLY GYPSUM WALLBOARD AND/OR GYPSUM LATH | #6 x 1 1/4" LONG x 0.3145" DIA FLAT HEAD SELF DRILLING SCREW AT 8" O.C. PER ASTM C954 AND ASTM C1280 |
| TWO PLY GYPSUM WALL BOARD | #6 x 1 3/4" LONG x 0.3145" DIA FLAT HEAD SELF DRILLING SCREW AT 8" O.C. PER ASTM C954 AND ASTM C1280 |
| PLYWOOD | #6 PHILLIPS BUGLE HEAD x 1 1/4" SCREWS SPACED PER TABLE ASTM C1280 AT 8" O.C. |



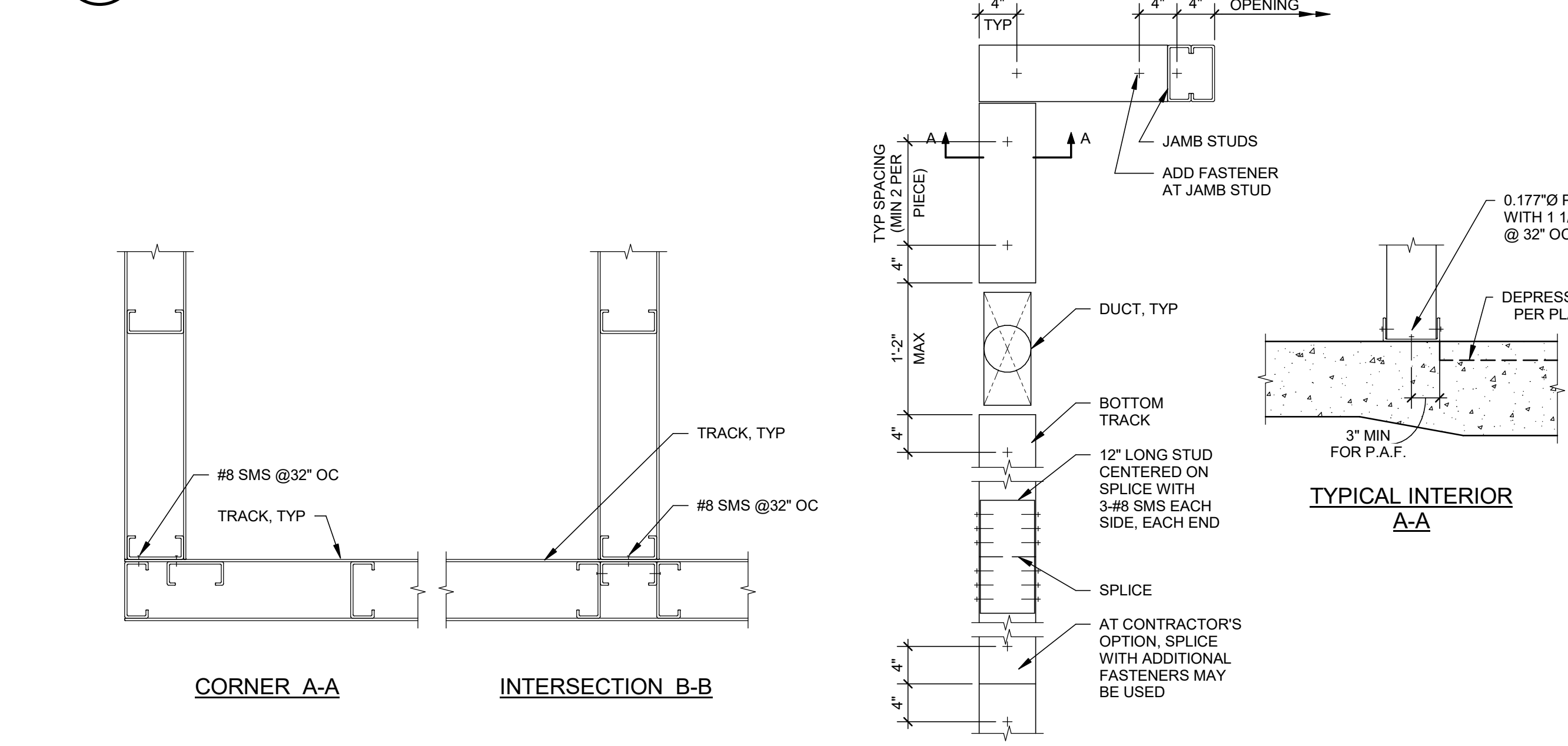
2 TYPICAL INTERIOR METAL STUD FRAMING ELEVATION
NO SCALE



7 HEADER AND JAMB CONNECTION
1 1/2" = 1'-0"



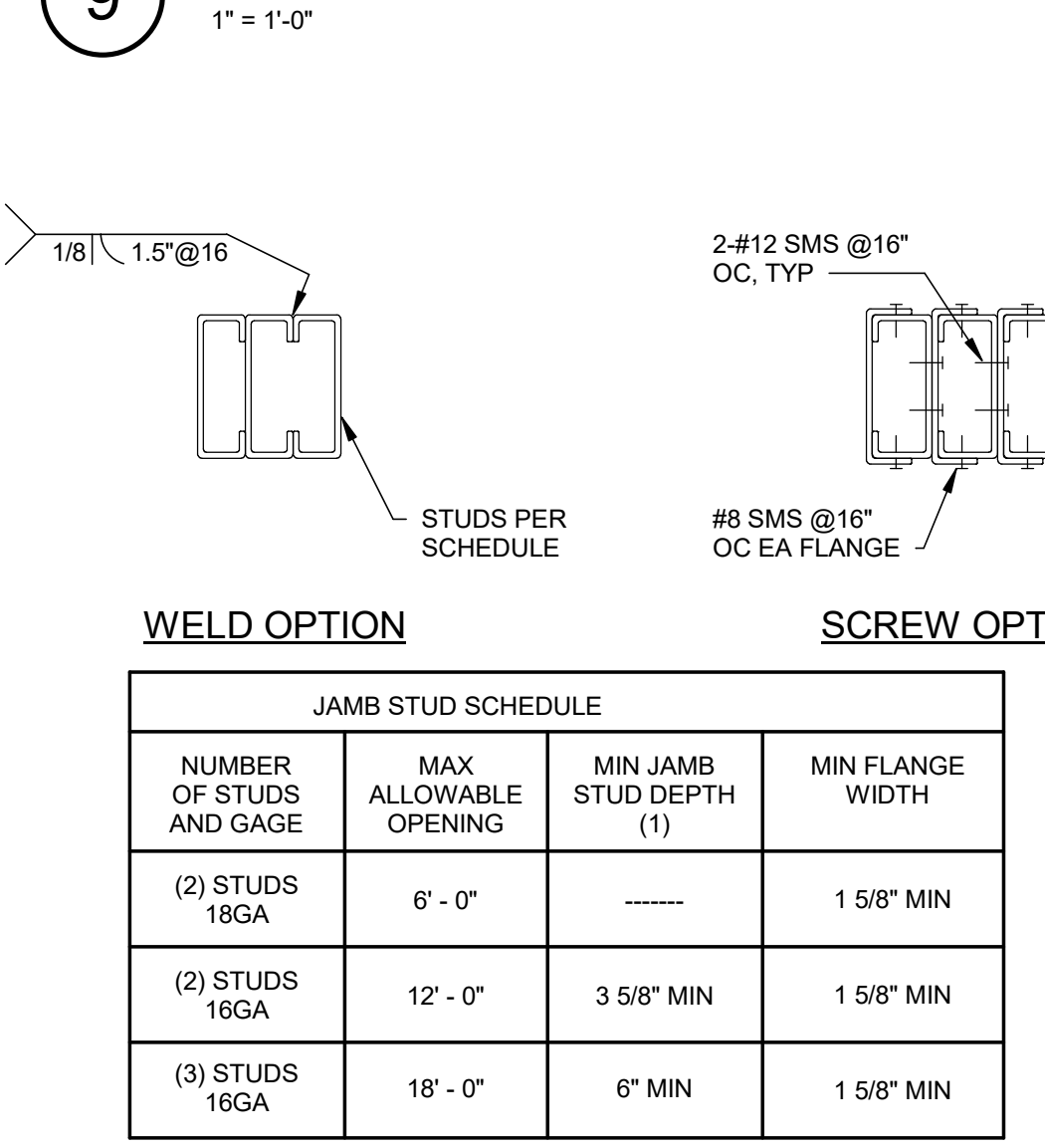
12 SILL AND JAMB CONNECTION
1 1/2" = 1'-0"



17 WALL CORNERS AND INTERSECTION
1" = 1'-0"



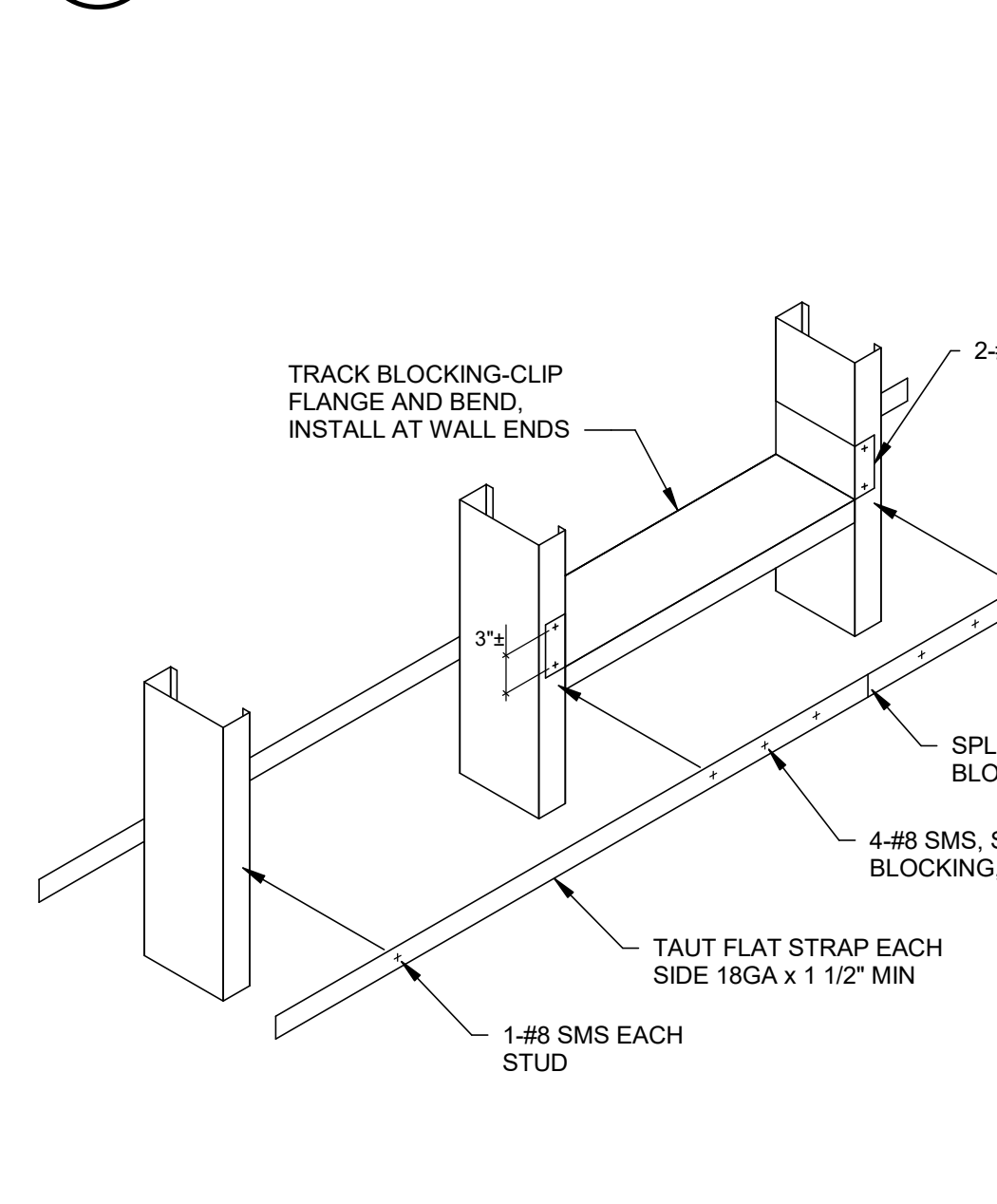
9 INTERIOR TOP TRACK
1" = 1'-0"



JAMB STUD SCHEDULE

| NUMBER OF STUDS AND GAGE | MAX ALLOWABLE OPENING | MIN JAMB STUD DEPTH (1) | MIN FLANGE WIDTH |
|--------------------------|-----------------------|-------------------------|------------------|
| (2) STUDS 18GA | 6' - 0" | ----- | 1 5/8" MIN |
| (2) STUDS 16GA | 12' - 0" | 3 5/8" MIN | 1 5/8" MIN |
| (3) STUDS 16GA | 18' - 0" | 6" MIN | 1 5/8" MIN |

14 JAMBS
1 1/2" = 1'-0"

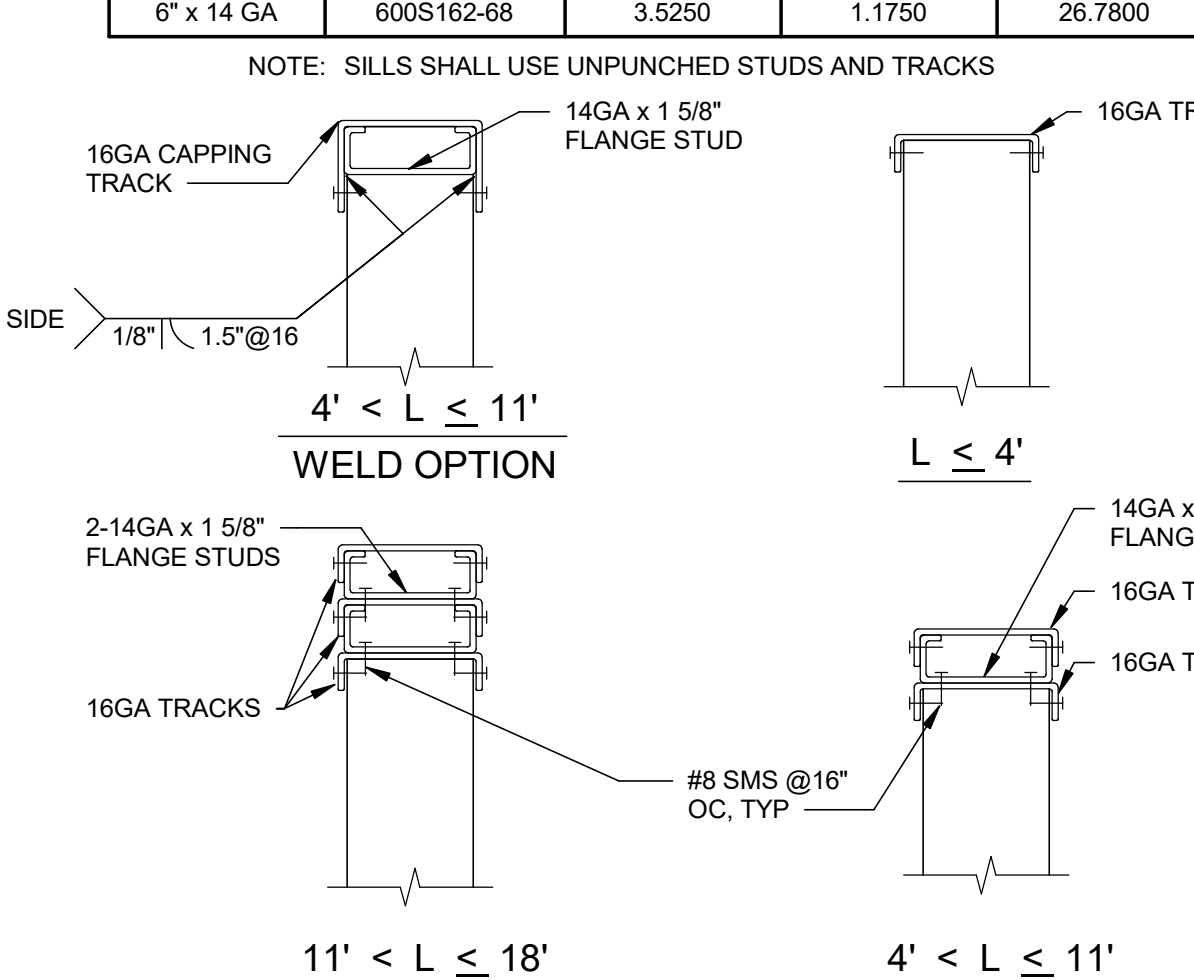


19 BRIDGING - ALTERNATE
1" = 1'-0"

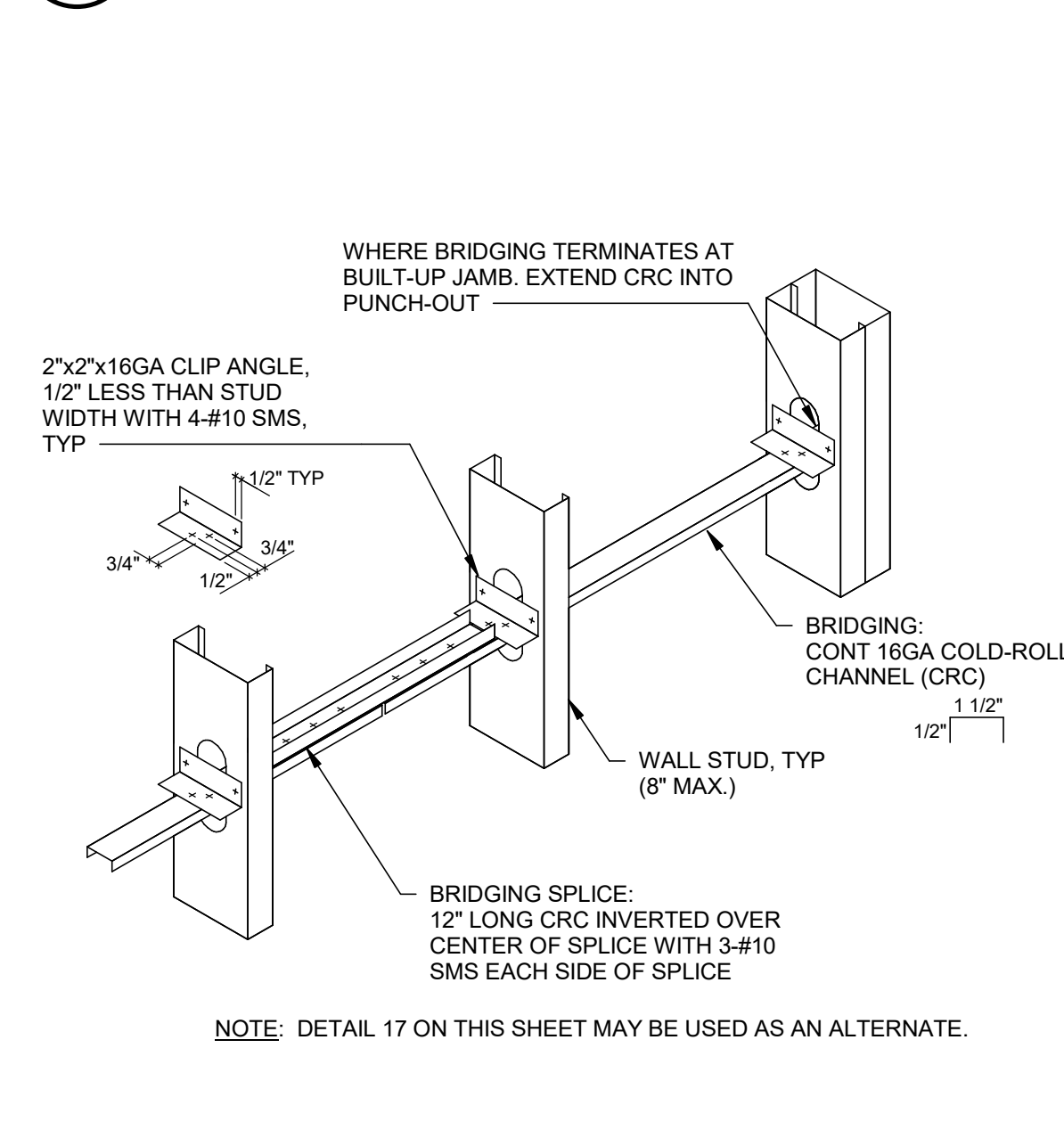


8 HEADERS
1 1/2" = 1'-0"

| NOMINAL SIZE | CATALOG SIZE | MINIMUM PROPERTIES | | |
|----------------|--------------|-----------------------|-----------------------|-----------|
| | | lx (IN ²) | Sx (IN ²) | Ma (IN-K) |
| 2 1/2" x 14 GA | 250S162-68 | 0.4500 | 0.3600 | 12.2100 |
| 3 5/8" x 14 GA | 363S162-68 | 1.0690 | 0.5900 | 17.6500 |
| 6" x 14 GA | 600S162-68 | 3.5250 | 1.1750 | 26.7800 |



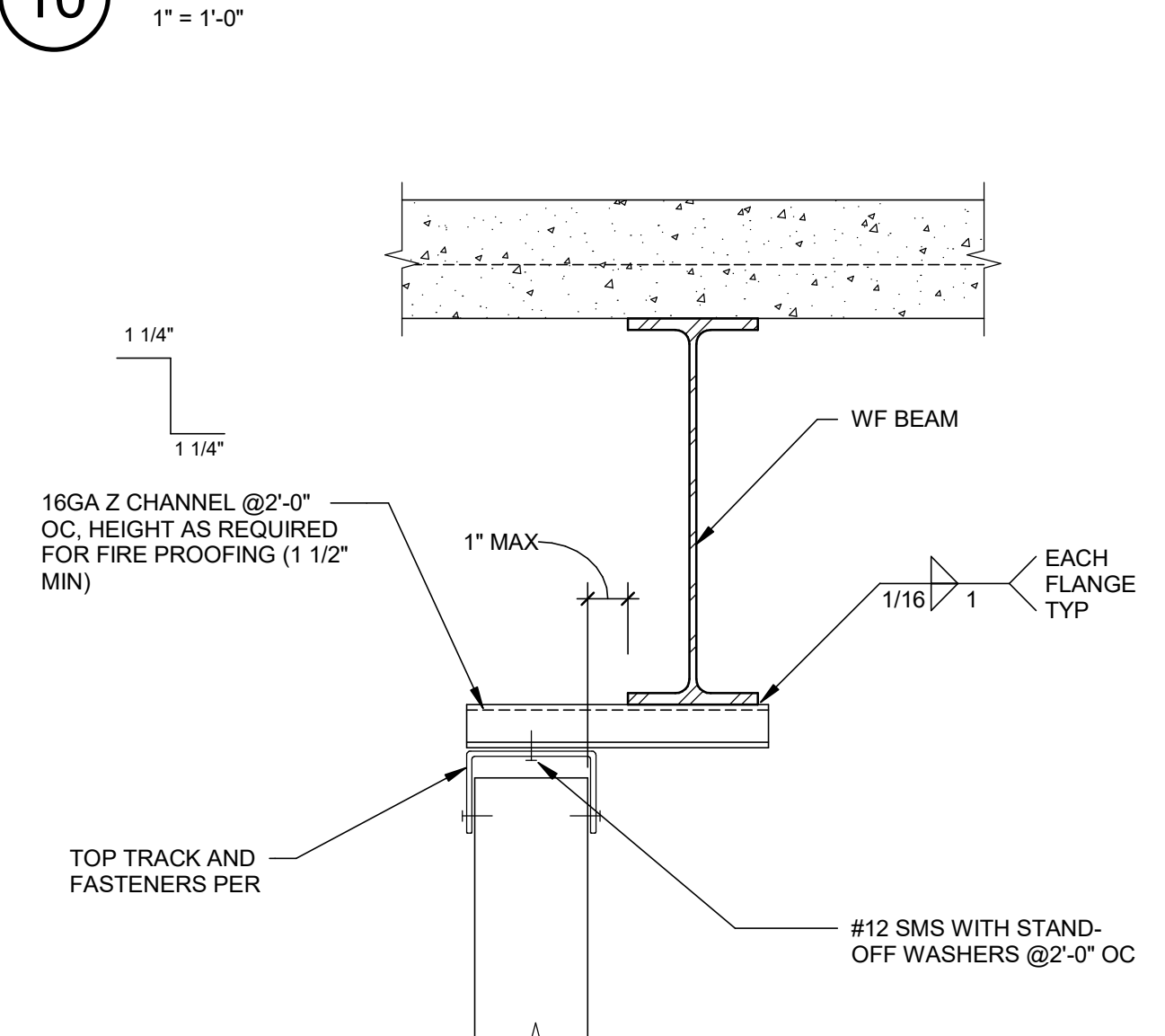
13 SILLS
1 1/2" = 1'-0"



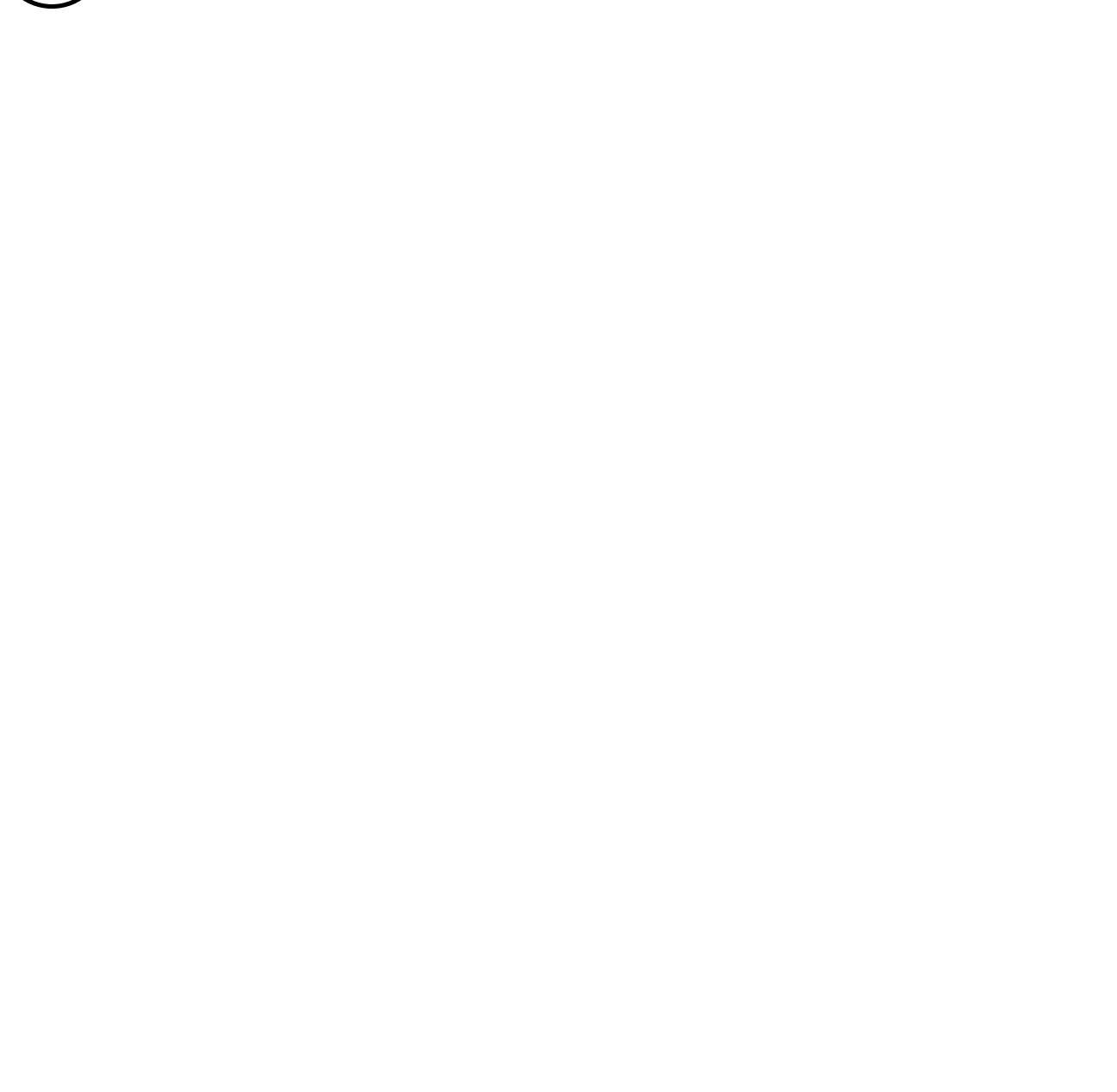
18 BRIDGING
1" = 1'-0"



10 ALTERNATE TOP TRACK
1" = 1'-0"



15 TOP TRACK AT PARALLEL WF BEAM
1 1/2" = 1'-0"



APPROVALS

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PROJECT TITLE

CONTRA COSTA CCD D-4002
DVC SAN RAMON CAMPUS EXPANSION & RENOVATION

1690 Watermill Rd.
San Ramon, CA 94582

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ISSUE DATE: 08/23/2023
NOLL & TAM JOB NUMBER: 21630

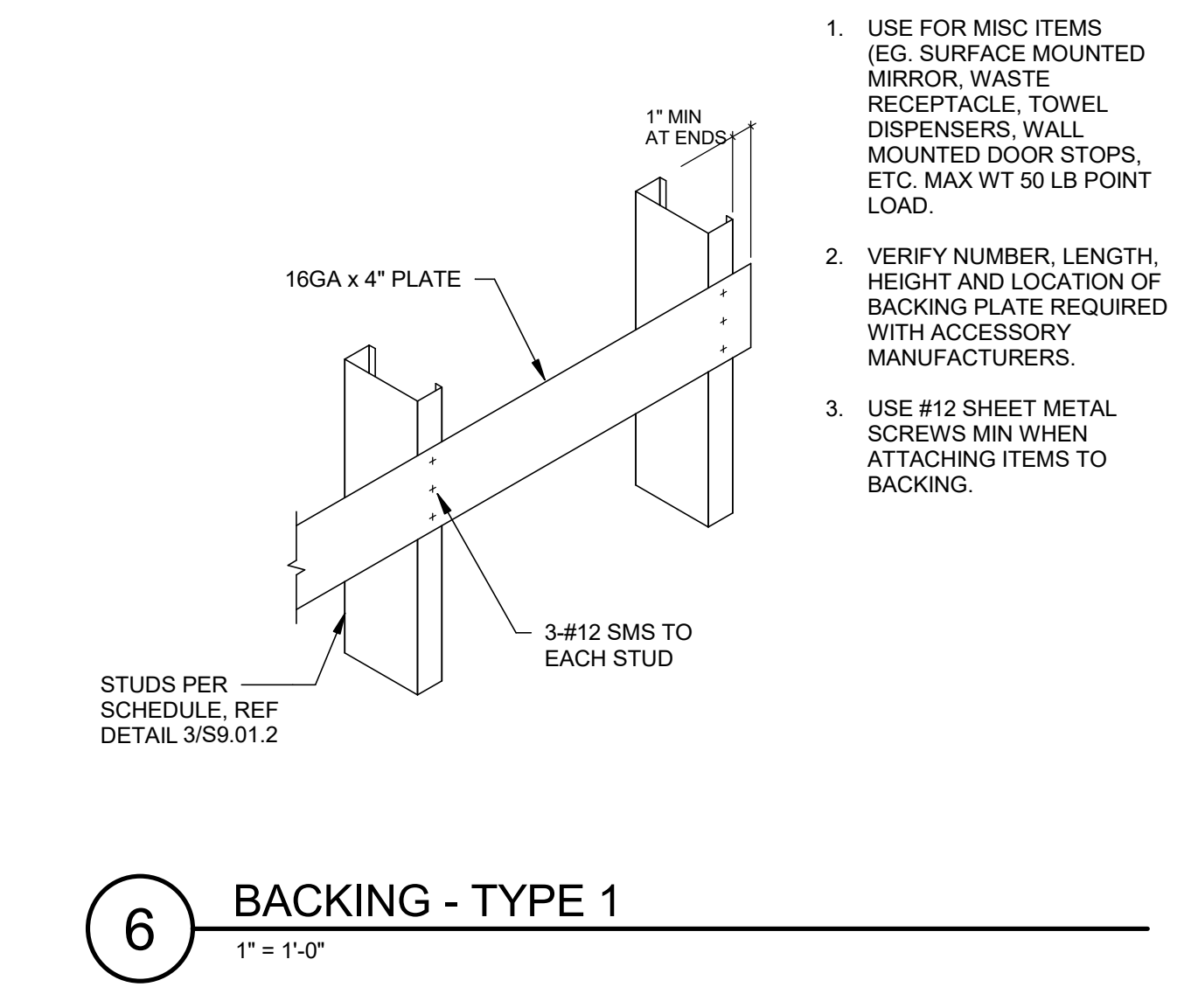
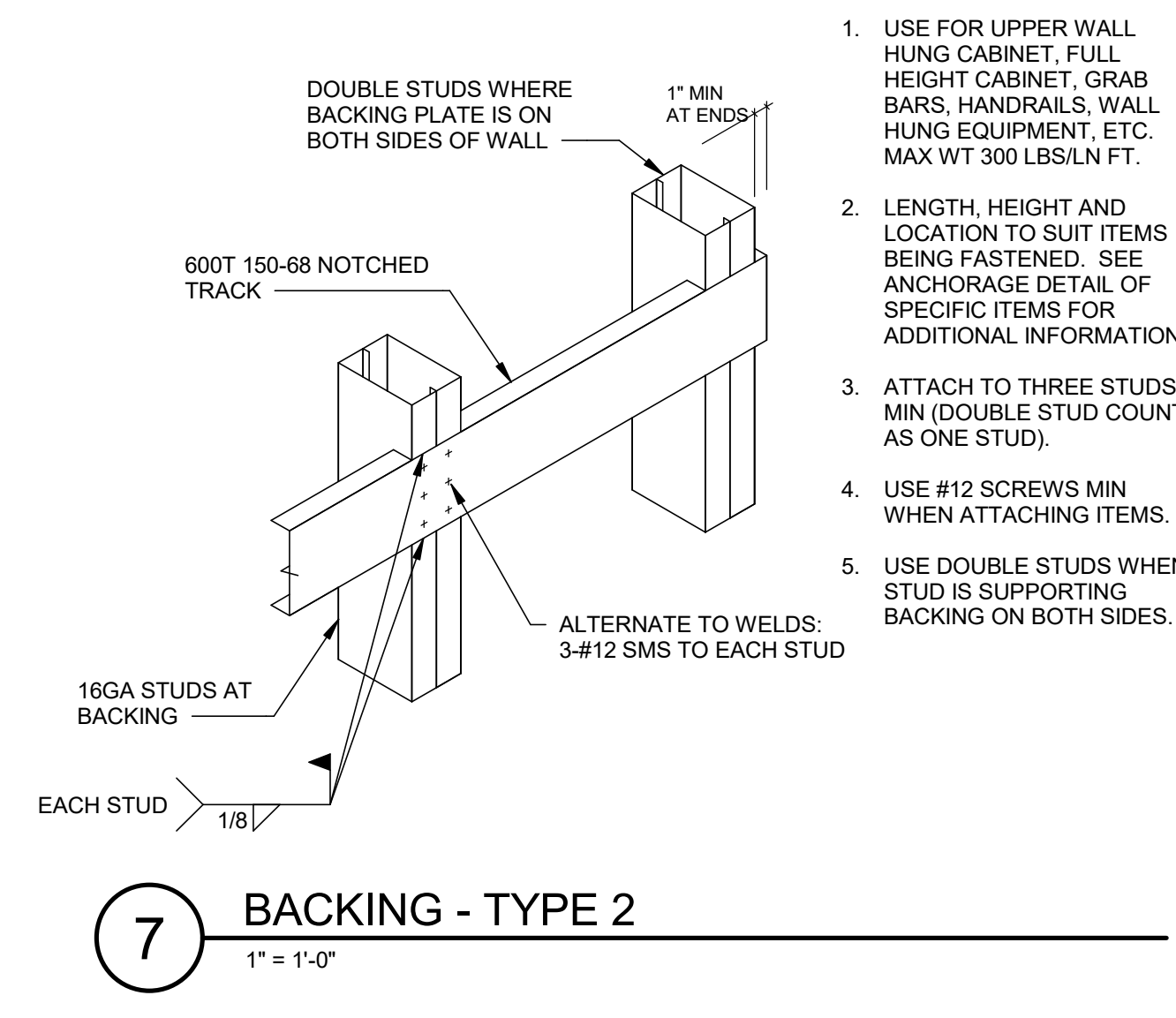
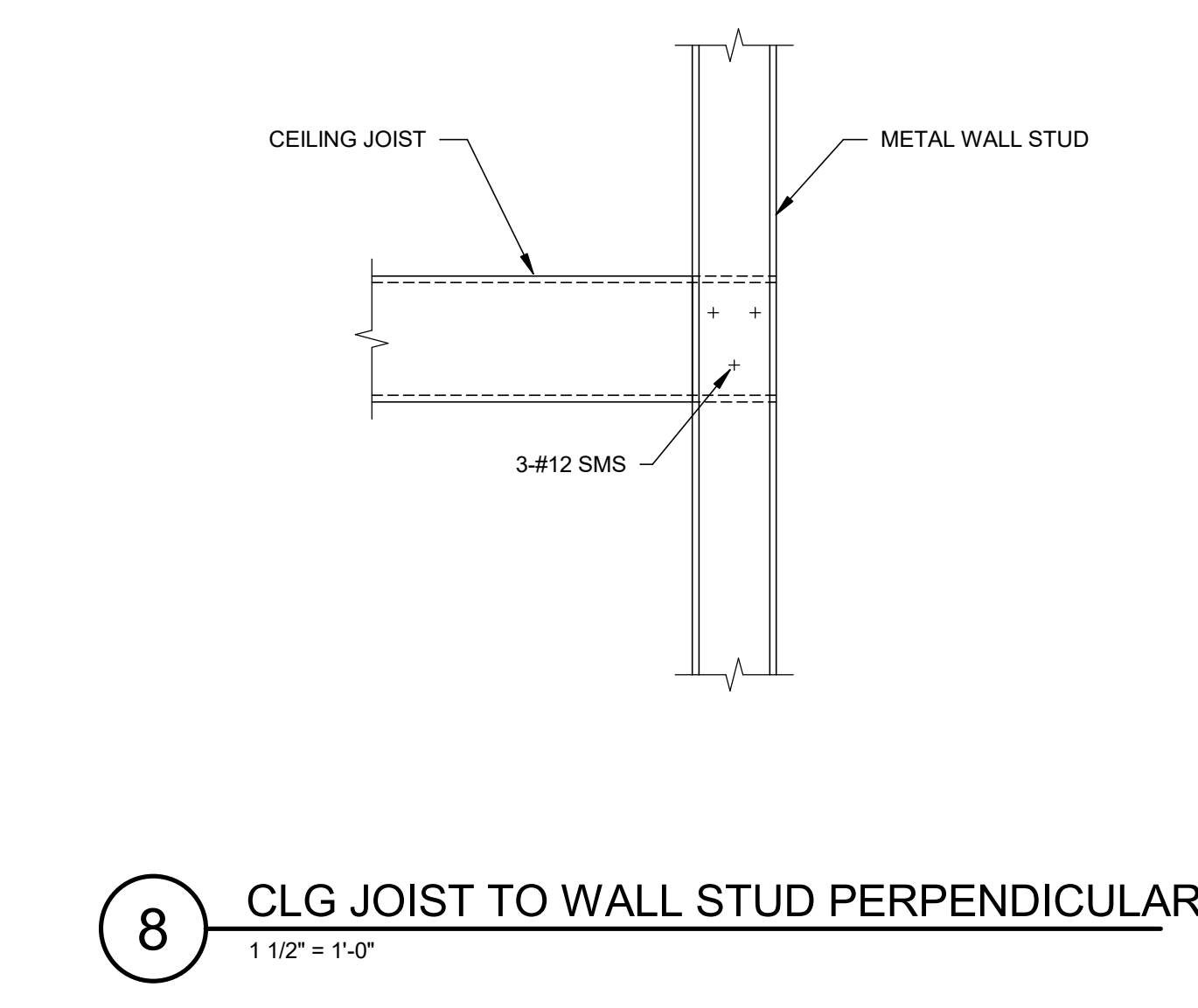
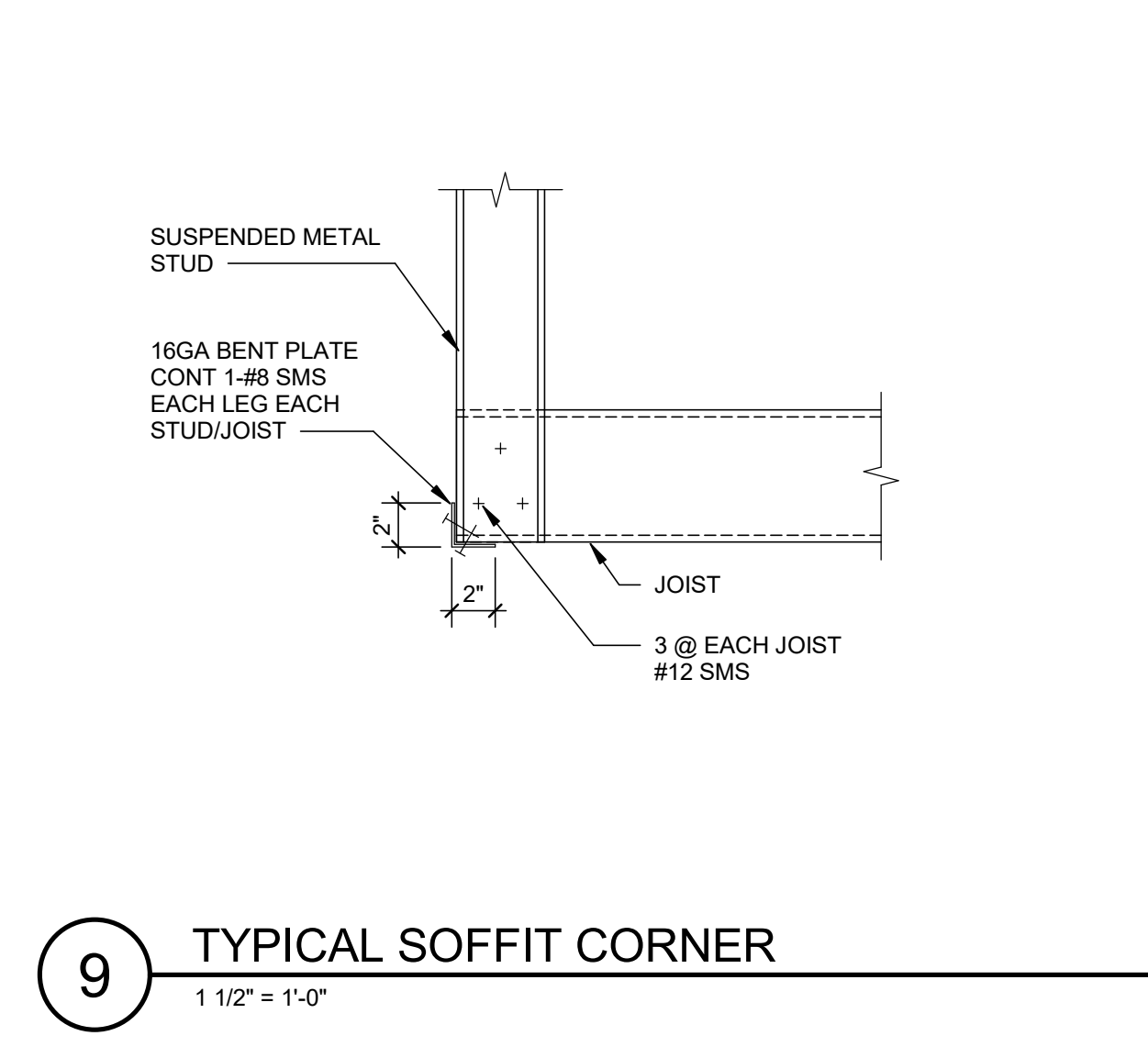
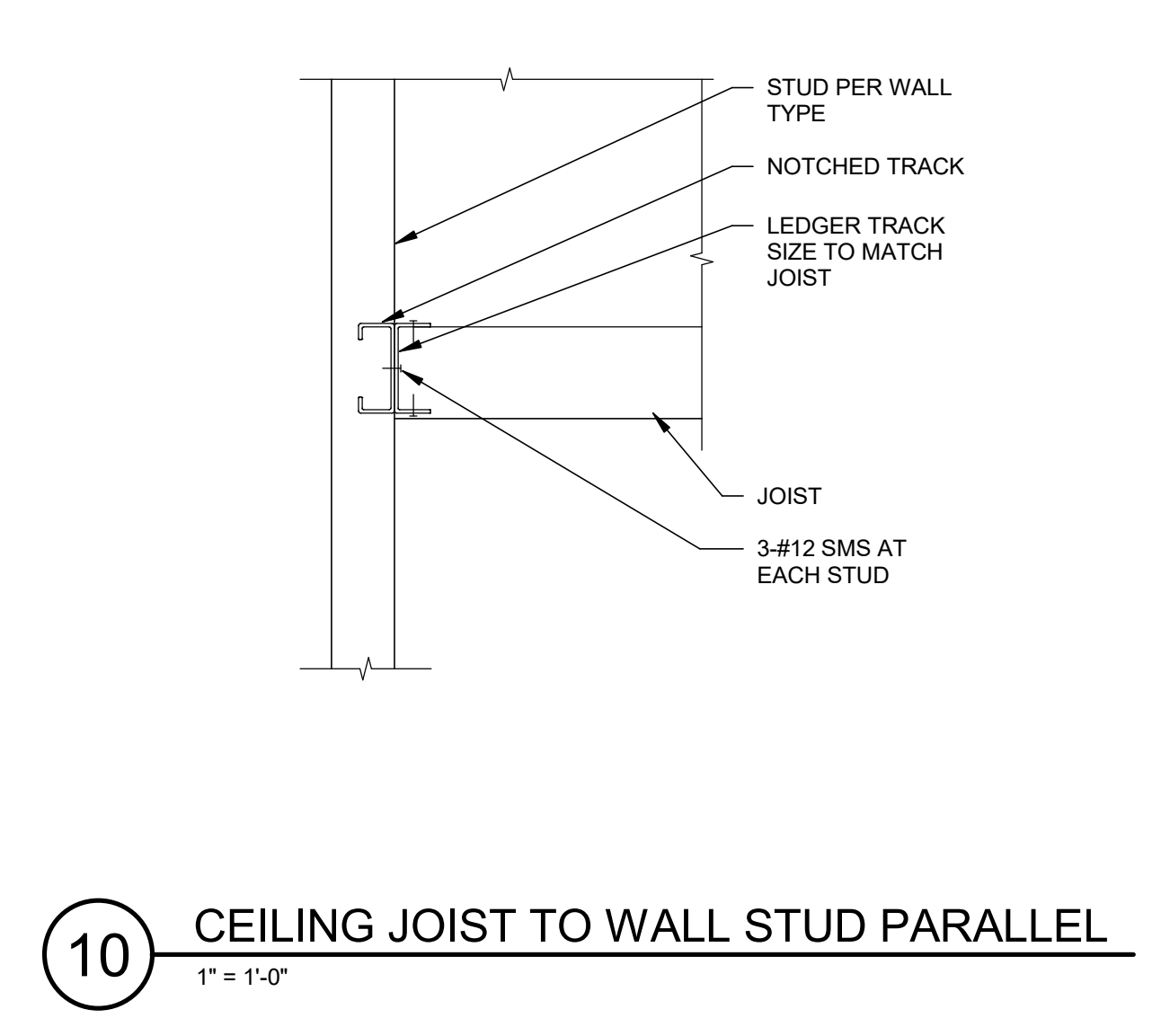
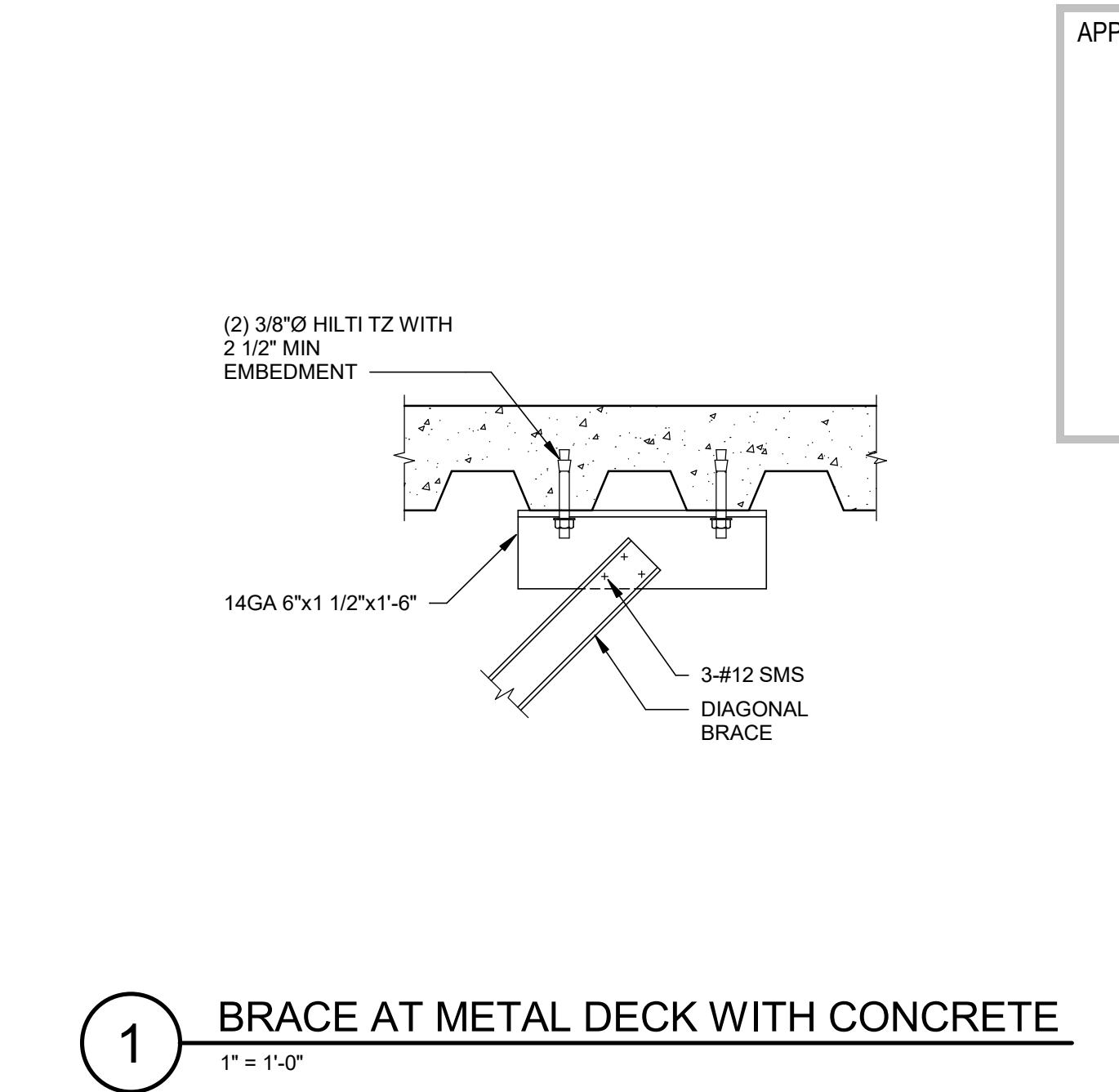
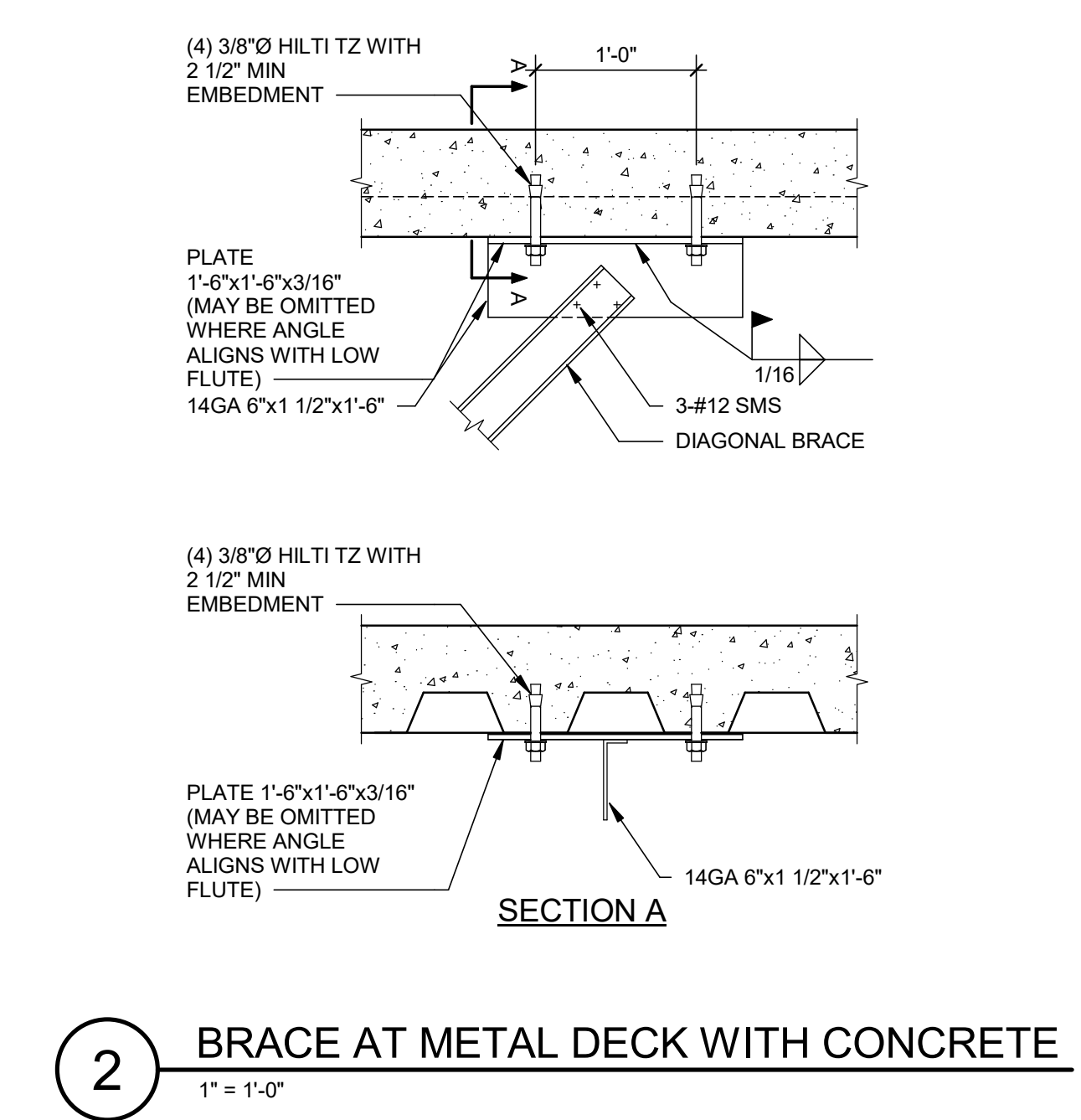
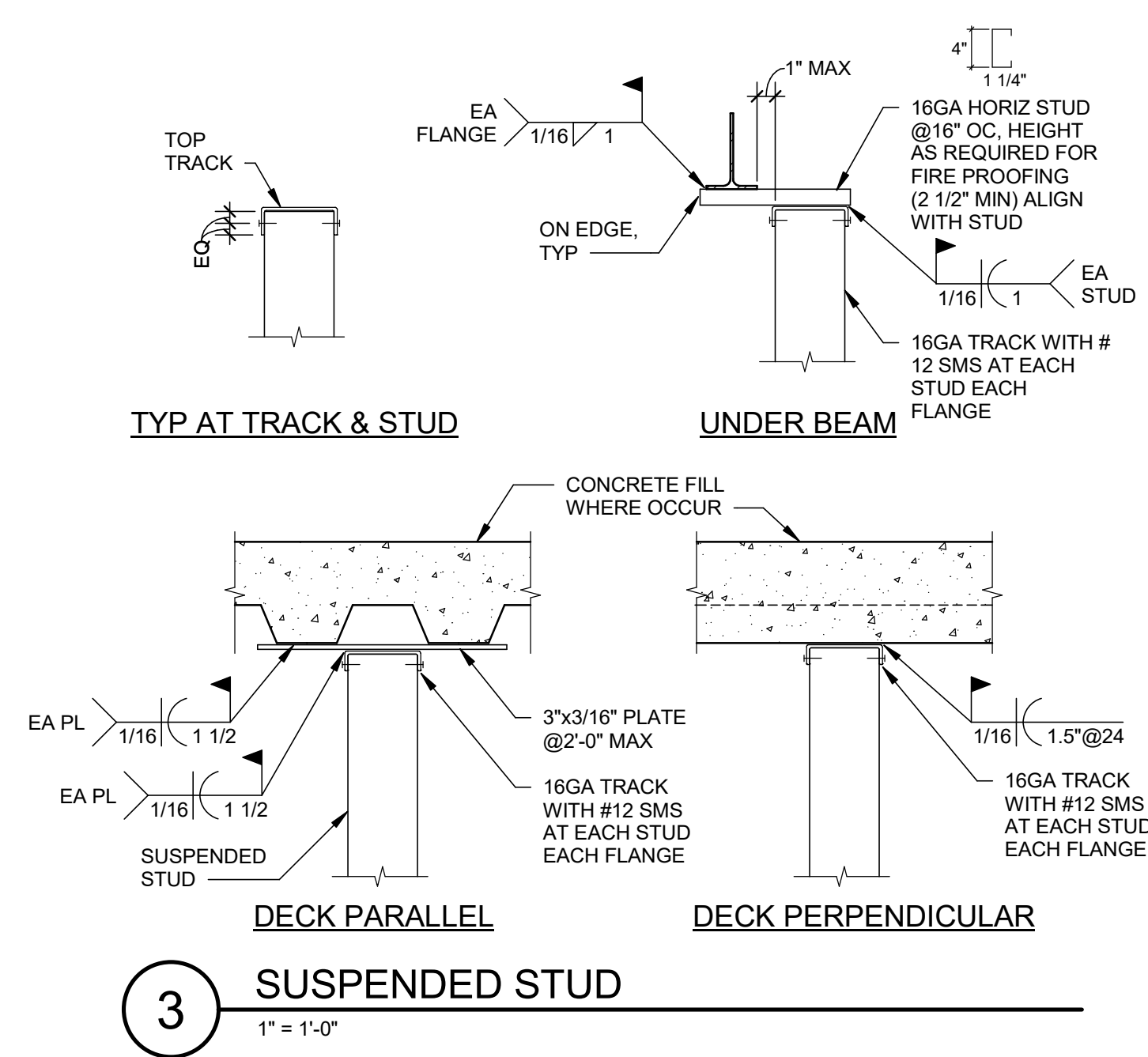
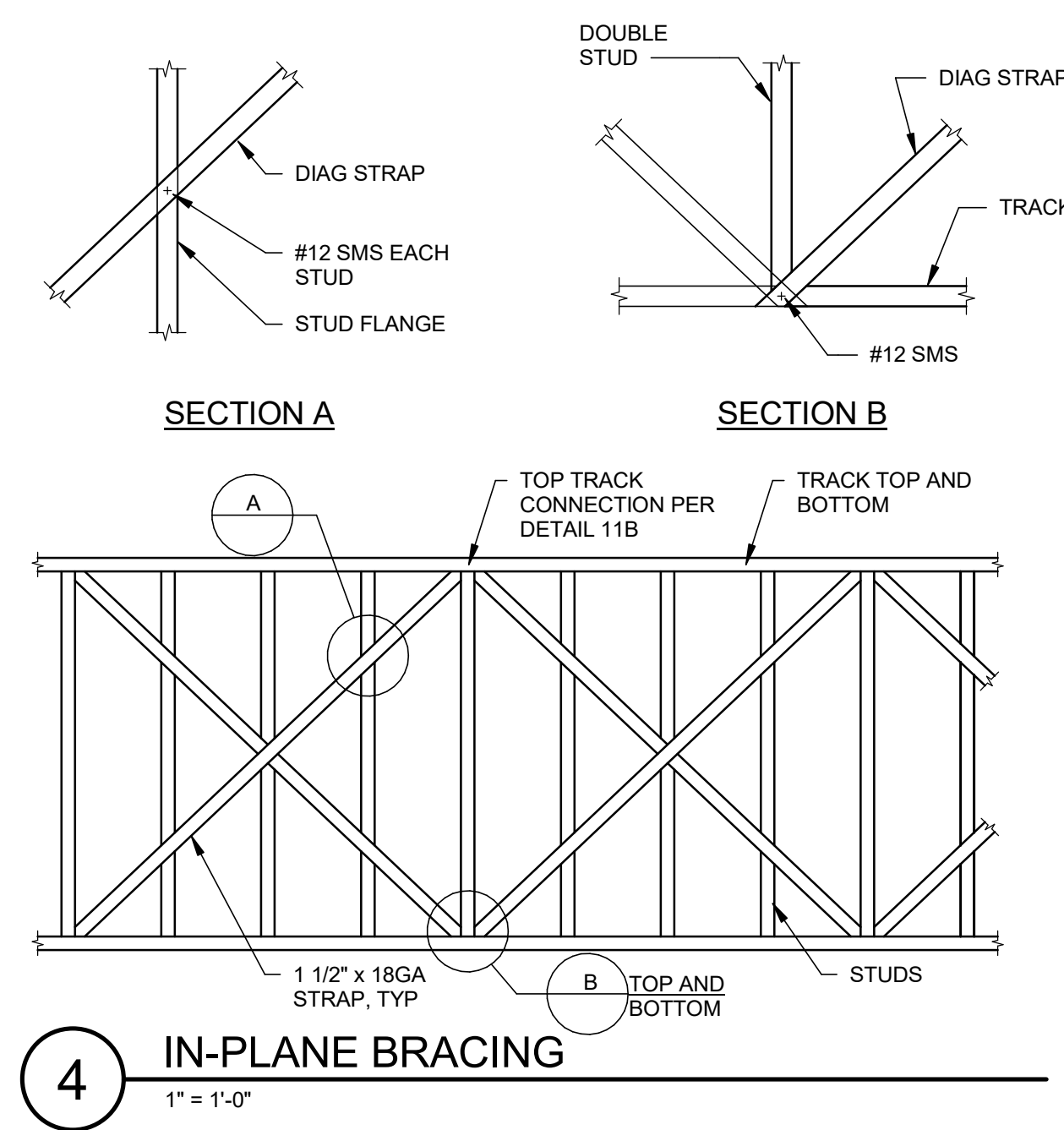
| REVISIONS | DATE | DESCRIPTION |
|-----------|------|-------------|
| TBD | TBD | |

SHEET TITLE

METAL STUD WALL DETAILS

SHEET NUMBER

S9.01.2



APPROVALS

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PROJECT TITLE

CONTRA COSTA CCD D-4002
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INCREMENT 2 - AS-BUILT - FINAL

| | |
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| REVISIONS | |
| DATE | DESCRIPTION |
| TBD | TBD |

SHEET TITLE

METAL STUD WALL DETAILS

SHEET NUMBER

S9.02.2

FIRE PROTECTION SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

| Abbreviations | | | |
|---------------|--------------------------------------|-----|------------------------|
| (A) | ABANDON IN PLACE | SSU | STANDARD SPRAY UPRIGHT |
| (E) | EXISTING | TOB | TOP OF BEAM |
| (F) | FUTURE | TOP | TOP OF PIPE |
| (N) | NEW | TOR | TOP OF RISER |
| (R) | RELOCATE/RELOCATED LOCATION | TOS | TOP OF STEEL |
| (X) | DEMOLITION | TS | TAMPER SWITCH |
| AFF | ABOVE FINISHED FLOOR | TYP | TYPICAL |
| AS | AUTOMATIC SPRINKLER | UNO | UNLESS NOTED OTHERWISE |
| BOB | BOTTOM OF BEAM | | |
| BOD | BOTTOM OF DECK | | |
| BOP | BOTTOM OF PIPE | | |
| BOR | BOTTOM OF RISER | | |
| BV | BUTTERFLY VALVE | | |
| C | CENTER LINE | | |
| CV | CHECK VALVE | | |
| DDCV | DOUBLE DETECTOR CHECK VALVE ASSEMBLY | | |
| DN | DROP NIPPLE | | |
| EC | EXTENDED COVERAGE | | |
| EL | ELEVATION | | |
| F | FAHRENHEIT | | |
| FDC | FIRE DEPARTMENT CONNECTION | | |
| FF | FINISHED FLOOR | | |
| FFL | FLOOR FLANGE | | |
| FHC | FIRE HOSE CABINET | | |
| FHS | FIRE HOSE STATION | | |
| FS | FLOW SWITCH | | |
| FT | FEET | | |
| G | GRADE | | |
| GPM | GALLONS PER MINUTE | | |
| GV | GATE VALVE | | |
| H | HANGER | | |
| HSW | HORIZONTAL SIDE WALL | | |
| HV | HOSE VALVE | | |
| ID | INSIDE DIAMETER | | |
| IN | INCHES | | |
| MAX | MAXIMUM | | |
| MIN | MINIMUM | | |
| N&C | NIPPLE AND CAP | | |
| NIC | NOT IN CONTRACT | | |
| NO | NUMBER | | |
| NTS | NOT TO SCALE | | |
| OBJ | OPEN BAR JOIST | | |
| OD | OUTSIDE DIAMETER | | |
| OS & Y | OUTSIDE SCREW & YOKE | | |
| PV | POST INDICATOR VALVE | | |
| PRV | PRESSURE REDUCING VALVE | | |
| PS | PRESSURE SWITCH | | |
| RM | ROOF MANIFOLD | | |
| RN | RISER NIPPLE | | |
| SB | SWAY BRACE | | |
| SF | SQUARE FEET | | |
| SOV | SHUT OFF VALVE | | |
| SP | STANDPIPE | | |
| SSP | STANDARD SPRAY PENDENT | | |

SPRINKLER HEAD LEGEND

| SYMBOL | DESCRIPTION | MODEL NO. | K-FACTOR | ORIFICE SIZE | RESPONSE | TEMP | COVERAGE | FINISH | ESCHUTCHEON | COUNT | COMMENTS |
|--------|--|-----------|----------|--------------|----------|------|----------|-----------------------|-------------|-------|--------------------|
| ☒ | HIP SPRINKLER | TY3187 | 5.6 | 1/2" | Quick | 200 | Standard | Metal-Victaulic-Brass | N/A | 24 | |
| ○ | UPRIGHT SPRINKLER | TY3131 | 8 | 1/2" | Quick | 200 | Standard | Metal-Victaulic-Brass | N/A | 15 | |
| ⊙ | BACK TO BACK SPRINKLER | TY4180 | 8 | 1/2" | Quick | 200 | Standard | Metal-Victaulic-Brass | N/A | 9 | |
| ⬇ | HORIZONTAL SIDEWALL SPRINKLER | TY3321 | 5.6 | 1/2" | Quick | 155 | Standard | Metal-Victaulic-White | | 4 | |
| ◻ | CONCEALED PENDENT SPRINKLER | TY3531 | 5.6 | 1/2" | Quick | 155 | Standard | WHITE POLY | WT | 25 | |
| ■ | CONCEALED PENDENT SPRINKLER - WOOD CEILING | TY3531 | 5.6 | 1/2" | Quick | 155 | Standard | WHITE POLY | | 31 | CHROME COVER PLATE |

TOTAL SPRINKLERS: 108

HAZARD CLASSIFICATIONS

| OCCUPANCY | DESCRIPTION | MAX SPRINKLER SPACING | DESIGN DENSITY | REMOTE AREA |
|-------------------------|--|-----------------------|----------------|-------------|
| LIGHT HAZARD | VESTIBULES, HALLS, RESTROOMS, OFFICES, CLASSROOMS, CAFE | 225 SQ FT | 0.10 GPM/SQ FT | 1500 SQ FT |
| ORDINARY HAZARD GROUP 1 | ELECTRICAL ROOMS, MECHANICAL ROOMS, JANITORS CLOSET, STORAGE ROOMS | 130 SQ FT | 0.15 GPM/SQ FT | 1500 SQ FT |

SHEET INDEX

| | |
|-----------|---|
| FP2.40.2 | DEMO PARTIAL ATTIC PLAN PLAN - WEST- FIRE PROTECTION |
| FP2.41.2 | PARTIAL ATTIC PLAN PLAN - WEST- FIRE PROTECTION |
| FP0.00.2 | SYMBOLS LIST AND GENERAL NOTES - FIRE PROTECTION |
| FP0.01.2 | FIRE PROTECTION SITE PLAN |
| FP2.30A.2 | 1ST FLOOR OVERALL PLAN - FIRE PROTECTION |
| FP2.31.2 | LIBRARY LEARNING RESOURCE CENTER FLOOR PLAN - FIRE PROTECTION |
| FP2.32.2 | LIBRARY LEARNING RESOURCE CENTER ROP - FIRE PROTECTION |
| FP2.33.2 | LIBRARY LEARNING RESOURCE CENTER ATTIC - FIRE PROTECTION |
| FP2.39.2 | DEMO & NEW - 1ST FLOOR - WEST - CAFE & LEARNING COMMONS - FIRE PROTECTION |
| FP5.01.2 | SECTIONS - FIRE PROTECTION |
| FP5.02.2 | DETAILS - FIRE PROTECTION |
| FP5.03.2 | DETAILS - FIRE PROTECTION |

GENERAL FIRE PROTECTION NOTES

- CARRY OUT ALL WORK IN ACCORDANCE WITH 2016 CBC. SHOULD ANY CONDITIONS DEVELOP WHICH ARE NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH SAID 2016 CBC, A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY OSHPD BEFORE PROCEEDING WITH THE WORK.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF LATEST EDITIONS OF TITLE 22, CALIFORNIA CODE OF REGULATIONS AND TITLE 24.
- ALL ADDENDA AND CHANGE ORDERS SHALL BE SIGNED BY THE ARCHITECT/ENGINEER OF RECORD, THE RESPONSIBLE ENGINEER(S), THE OWNER, AND CONTRACTOR PRIOR TO SUBMITTING FOR APPROVAL TO DEPARTMENT OF THE STATE ARCHITECT (DSA).
- RESPONSIBILITIES OF ARCHITECT/ENGINEER OF RECORD AND CONSULTANTS, PROJECT INSPECTOR, AND GENERAL CONTRACTOR SHALL BE IN ACCORDANCE WITH C.C.R. TITLE 24, PART 1, SECTIONS 7-141, 7-145, 7-143. VERIFIED REPORTS OF THE CONSTRUCTION ARE REQUIRED BY C.C.R. TITLE 24, PART 1, SECTION 7-151.
- NO WORK SHALL COMMENCE AT THE PROJECT SITE BEFORE THE BUILDING PERMIT IS FULLY EXECUTED WITH THE START DATE ENTERED AND SIGNED BY THE OWNER, AND GENERAL CONTRACTOR, AND AVAILABLE FOR POSTING AT JOBSITE.
- ALL WORK PERFORMED UNDER THIS CONTRACT SHALL CONFORM TO THE FOLLOWING CODES AND REGULATIONS AS APPLICABLE:
 - CALIFORNIA CODE OF REGULATIONS TITLE 8 - INDUSTRIAL REGULATIONS (CHAPTER 1).
 - CALIFORNIA CODE OF REGULATIONS TITLE 17 - PUBLIC HEALTH (CHAPTER 7).
 - CALIFORNIA CODE OF REGULATIONS TITLE 19 - PUBLIC SAFETY.
 - CALIFORNIA CODE OF REGULATIONS TITLE 21 - PUBLIC WORKS.
 - CALIFORNIA CODE OF REGULATIONS TITLE 22 - SOCIAL SECURITY.
 - CALIFORNIA CODE OF REGULATIONS TITLE 24 - PARTS 2, 3, 4, 5, AND 9.
 - CALIFORNIA CODE OF REGULATIONS TITLE 24 - ENERGY INSULATION STANDARDS.
 - 2016 CALIFORNIA ADMINISTRATIVE CODE (CAC) - PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
 - 2016 CALIFORNIA BUILDING CODE (CBC) - PART 2, TITLE 24, CCR.
 - 2016 CALIFORNIA ELECTRICAL CODE (CEC) - PART 3, TITLE 24, CCR.
 - 2016 CALIFORNIA MECHANICAL CODE (CMC) - PART 4, TITLE 24, CCR.
 - 2016 CALIFORNIA PLUMBING CODE (CPC) - PART 5, TITLE 24, CCR.
 - 2016 CALIFORNIA FIRE CODE (CFC) - PART 9, TITLE 24, CCR.
 - NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARDS
- UNLESS OTHERWISE STATED, IT IS INTENDED THAT THE ABOVE CODES AND REGULATIONS REFER TO THE LATEST EDITION OR REVISION IN EFFECT ON THE DATE OF THE CONTRACT. NOTHING ON THE DRAWING IS TO BE CONSTRUED AS REQUIRING OR PERMITTING WORK THAT IS CONTRARY TO THE ABOVE LISTED CODES AND REGULATIONS, OR OTHER LOCAL, STATE OR FEDERAL CODES OR REGULATIONS WHICH MAY BE APPLICABLE.
- 2016 NFPA 13 SECTION 10.10.2.1.1, UNDERGROUND MAINS AND LEAD-IN CONNECTIONS TO SYSTEM RISERS SHALL BE COMPLETELY FLUSHED BEFORE CONNECTION IS MADE TO OVERHEAD SPRINKLER PIPING. RISER "STUB-UP" SHALL BE PROTECTED TO PREVENT INSECTS, ANIMALS, AND DEBRIS, ETC. FROM ENTERING THE PIPE.
- PROVIDE FLOW TEST DATA AND INDICATE THE LOCATIONS AND HEIGHT ELEVATIONS OF THE TEST AND RESIDUAL FLOW HYDRANTS. DATA MUST BE NO MORE THAN 6 MONTHS OLD AND PROVIDE INFORMATION ABOUT AVAILABLE WATER AT THE SITE. INFORMATION MAY COME FROM THE LOCAL WATER PURVEYOR, UTILITIES COMPANY, OR LOCAL FIRE DEPARTMENT.
- 2016 NFPA 13 SECTION 10.10.1: A COPY OF COMPLETED AND SIGNED "CONTRACTOR'S MATERIALS AND TEST CERTIFICATE FOR UNDERGROUND / ABOVE GROUND PIPING" SHALL BE INCLUDED IN OPERATION AND MAINTENANCE MANUAL.
- 2016 NFPA 13 SECTION 10.10.2.2.1: ALL PIPING AND ATTACHED APPURTENANCES SUBJECTED TO SYSTEM WORKING PRESSURE SHALL BE HYDROSTATICALLY TESTED AT 200 PSI, OR 50 PSI ABOVE WORKING PRESSURE, WHICHEVER IS GREATER, AND SHALL MAINTAIN WITHOUT LOSS FOR 2 HOURS.
- 2016 NFPA 13 SECTION 6.2.9: PROVIDE SPARE SPRINKLER HEAD CABINET, SPRINKLER WRENCH, AND NO FEWER THAN 6 SPARE SPRINKLER HEADS MATCHING THE TYPES AND TEMPERATURE RATING IN EACH PROTECTED AREA FOR SYSTEMS LESS THAN 300 SPRINKLERS (12 SPARE SPRINKLER HEADS FOR SYSTEMS 300 TO 1,000 SPRINKLERS).
- 2016 NFPA 13 SECTION 9.3.6.3: THE END SPRINKLER ON EACH LINE SHALL BE RESTRAINED AGAINST EXCESSIVE VERTICAL AND LATERAL MOVEMENT. BRANCH LINES SHALL BE LATERALLY RESTRAINED AT INTERVALS NOT EXCEEDING THOSE SPECIFIED IN NFPA13, TABLE 9.3.6.4 (a) BASED ON BRANCH LINE DIAMETER AND VALUE OF Cp.
- 2016 NFPA 13 SECTION 25.2.3.1: THE SPRINKLER FLOW SWITCH SHALL BE TESTED TO CONFIRM THAT WHEN THE INSPECTOR'S TEST VALVE IS ACTIVATED AN AUDIBLE ALARM WILL SOUND NO MORE THAN 5 MINUTES AFTER INITIAL FLOW. TEST TO BE WITNESSED BY PROJECT INSPECTOR.
- 2016 CBC 904.4.3: CONNECTIONS TO PROTECTED PREMISES AND SUPERVISING STATION FIRE ALARM SYSTEMS SHALL BE TESTED TO VERIFY PROPER IDENTIFICATION AND TRANSMISSION OF ALARMS FROM AUTOMATIC FIRE EXTINGUISHING SYSTEM.
- 2016 NFPA 13 SECTION 8.17.2.4.7: SIGNAGE SHALL BE PROVIDED AS REQUIRED.
- 2016 NFPA 13 SECTION 6.9.1 AND 2010 CBC 903.4.2: FLOW SWITCH SHALL BE CONNECTED TO A 10 INCH OUTSIDE ALARM BELL AT EACH RISER. APPROVED IDENTIFICATION SIGNS SHALL BE PROVIDED TO OUTSIDE ALARM BELL "SPRINKLER FIRE ALARM - WHEN BELL RINGS CALL 911 / FIRE DEPARTMENT."
- 2016 NFPA 13 FIGURE 25.1: SPRINKLER CONTRACTOR SHALL COMPLETE AND SIGN CONTRACTORS MATERIAL AND TEST CERTIFICATE FOR THE ABOVEGROUND PIPING. THIS FORM SHALL BE GIVEN TO THE PROJECT INSPECTOR WHO WILL FORWARD TO DSA FOR FILING IN PROJECT RECORDS.
- ALL PIPE LENGTHS SHOWN ON PLANS ARE CENTER TO CENTER LENGTHS ROUNDED TO THE NEAREST INCH.
- ALL BRANCH LINE PIPING IS SCHEDULE 40 BLACK STEEL.
- ALL MAIN PIPING IS SCHEDULE 10 BLACK STEEL UNLESS NOTED ON PLANS.
- 36-INCH AND 60-IN FLEXIBLE SPRINKLER CONNECTIONS WILL BE PROVIDED ON ALL SPRINKLERS INSTALLED AT SUSPENDED CEILINGS WITHIN NEW LIBRARY RESOURCE BUILDING. LENGTH DEPENDENT ON ELEVATION OF BRANCHLINE AND SUSPENDED CEILING.

SCOPE OF WORK

THE SCOPE OF WORK IS TO PROVIDE A HYDRAULICALLY CALCULATED AUTOMATIC WET FIRE SPRINKLER SYSTEM AT THE LIBRARY LEARNING RESOURCE BUILDING (LLRC) AND RENOVATE A PORTION OF THE EXISTING SYSTEM LOCATED WITHIN THE EXISTING WEST BUILDING. THE LLRC IS CLASSIFIED AS AN A-3 OCCUPANCY AND IS OF TYPE VB CONSTRUCTION.

THE FIRE SPRINKLER SYSTEM IS SUPPLIED FROM THE PRIVATE ON-SITE FIRE SERVICE WHICH ALSO SUPPLIES ON-SITE PRIVATE FIRE HYDRANTS. THE FIRE SPRINKLER SYSTEM WILL BE HYDRAULICALLY CALCULATED FOR LIGHT HAZARD OCCUPANCIES AND HAVE SPRINKLERS ABOVE AND BELOW FINISHED/SUSPENDED CEILINGS.

NOTES FOR UNDERGROUND PIPING

- PRIOR TO INSTALLATION ALL PLANS AND SPECIFICATIONS SHALL BE APPROVED BY DSA. REFER TO DSA 1R A-25 FOR DESIGN, INSTALLATION AND MAINTENANCE GENERAL REQUIREMENTS.
- INSPECTIONS ARE REQUIRED: 1) PRIOR TO POURING THRUST BLOCKS. 2) FOR HYDROSTATIC TESTING, AND 3) FOR FLUSH.
- INSTALLATION, INSPECTION, AND TESTING SHALL CONFORM TO 2016 EDITIONS CFC, NFPA 13, AND NFPA 24.
- PRIVATE FIRE HYDRANTS SHALL BE APPROVED WET BARREL STYLE WITH A MINIMUM OF ON 2 1/2" AND ONE 4" OUTLET. THE 4" OUTLET SHALL FACE THE FIRE DEPARTMENT ACCESS ROAD. ALL OUTLET SHALL BE PROVIDED WITH NATIONAL STANDARD THREADS (NST). NFPA 24, § 7.1.1.2.
- FIRE HYDRANT SUPPLY PIPING SHALL BE A MINIMUM OF SIX INCHES IN DIAMETER. THE CENTER OF THE HOSE OUTLET SHALL BE NOT LESS THAN 18" ABOVE FINAL GRADE OR, WHERE LOCATED IN A HOSE HOUSE, 12" ABOVE THE FLOOR. NFPA 24, § 7.1.1 & 7.3.3.
- FIRE HYDRANTS SHALL BE A MINIMUM OF 40 FEET FROM ALL STRUCTURES. NFPA 24, § 7.2.3.
- A KEVED GATE VALVE SHALL BE PROVIDED FOR EACH HYDRANT IN AN ACCESSIBLE LOCATION. VALVES SHALL NOT BE LOCATED IN PARKING STALLS. NFPA 24, § 7.1.1.1.
- ALL PIPING SHALL BE LISTED FOR USE IN FIRE PROTECTION SERVICE AND COMPLY WITH AWWA STANDARDS (CLASS 150 MINIMUM) CLASS 200 PIPE SHALL BE USED WHERE THE PRESSURE MAY EXCEED 150 PSI. NFPA 24, § 10.1.1.
- ALL BOLTED JOINTS SHALL BE CLEANED AND THOROUGHLY COATED WITH ASPHALT OR OTHER CORROSION RETARDING MATERIAL AFTER INSTALLATION. NFPA 24, § 10.4.1.1.
- BACKFILL SHALL BE WELL TAMPED LAYERS TO CONSIST OF 6" MINIMUM BED OF CLEAN FILL SAND OR PEA GRAVEL BELOW AND 12" ABOVE THE PIPE (TOTAL 18" MINIMUM). NFPA 24, § 10.9.1.
- FITTINGS SHALL BE AN APPROVED TYPE. NFPA 24, § 10.2.1.
- A MINIMUM OF 30" OF COVER, FROM FINISH GRADE TO THE TOP OF THE PIPE, SHALL BE PROVIDED. WHEN SURFACE LOADS ARE EXPECTED, A MINIMUM OF 36" COVER SHALL BE PROVIDED. NFPA 24, § 10.4.2.2&3.
- THRUST BLOCKS, OR OTHER APPROVED METHOD OF THRUST RESTRAINT, SHALL BE PROVIDED WHEREVER PIPE CHANGES DIRECTION. BACK-FILL BETWEEN THE JOINTS TO PREVENT MOVEMENT OF THE PIPE. PROVIDE DETAILS AND CALCULATIONS FOR SIZING THRUST BLOCKS BASE ON ACTUAL SOIL CONDITIONS. NFPA 24, § 10.6
- A HYDROSTATIC TEST (200 PSI FOR TOW HOURS OR 50 PSI OVER MAXIMUM STATIC PRESSURE, WHICHEVER IS GREATER) SHALL BE PERFORMED. NFPA 24, § 10.10.2.2.1.
- THE SYSTEM SHALL BE THOROUGHLY FLUSHED BEFORE CONNECTION IS MADE TO OVERHEAD PIPING. FLOW SHALL BE THROUGH A MINIMUM OF 4" HOSE OF PIPE. NFPA 24, § 10.10.2.1.
- ALL CONTROL VALVES SHALL BE LOCKED IN THE OPEN POSITION. VALVES SHALL BE MONITORED IS THE SERVE 6 OR MORE SPRINKLER HEADS. CBC/CFC§ 903.4.
- ALL CONTROL VALVES SHALL BE LISTED INDICATING TYPE UNLESS A NON-INDICATING VALVE, SUCH AS AN UNDERGROUND GATE VALVE WITH APPROVED ROADWAY BOX COMPLETE WITH T-WRENCH, IS ACCEPTABLE TO AUTHORITY HAVING JURISDICTION.
- POST INDICATING VALVES (PIC) SHALL BE TESTED TO ENSURE THAT THE "TARGETS" (OPEN, CLOSED) ARE CLEARLY IDENTIFIED WHEN VALVE IS OPEN AND CLOSED. NFPA 24, § 10.10.1 & 14.1.
- TEST SHALL BE MADE BY THE INSTALLING CONTRACTOR IN THE PRESENCE OF THE (AUI). PROVIDE A COMPLETED CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR UNDERGROUND PIPING TO DSA. NFPA 24, § 10.10.1.1 & 14.1, CFC §901.5 & 6.

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PROJECT TITLE

CONTRA COSTA
CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION & RENOVATION

1690 Watermill Rd.
San Ramon, CA 94582

RECORD SET:

THESE DRAWINGS HAVE BEEN PREPARED FROM ADDENDUMS, CCD'S, ASIS AND SELECT RFI'S OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM. ONLY A SELECT FEW AS-BUILTS WERE SUBMITTED.

ISSUE TITLE

INCREMENT 2

ISSUE DATE **08/22/2023**

NOLL & TAM JOB NUMBER **21630**

REVISIONS

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
| 1 | | |

SHEET TITLE

SYMBOLS LIST AND GENERAL NOTES - FIRE PROTECTION

SHEET NUMBER

FPO.00.2

These Record Documents have been prepared based on information provided by others. The design professional has not verified the accuracy and/or completeness of this information and shall not be responsible for any error or omissions which may be incorporated herein as a result.

GENERAL SHEET NOTES

1. SITE PLAN IS SHOWN FOR IDENTIFICATION OF HYDRAULIC NODES. SEE CIVIL DRAWINGS FOR UNDERGROUND DETAILS AND LOCATIONS (INCLUDING BACKFLOW PREVENTION AND FDC) AND INSTALLATION.

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ISSUE TITLE

INCREMENT 2

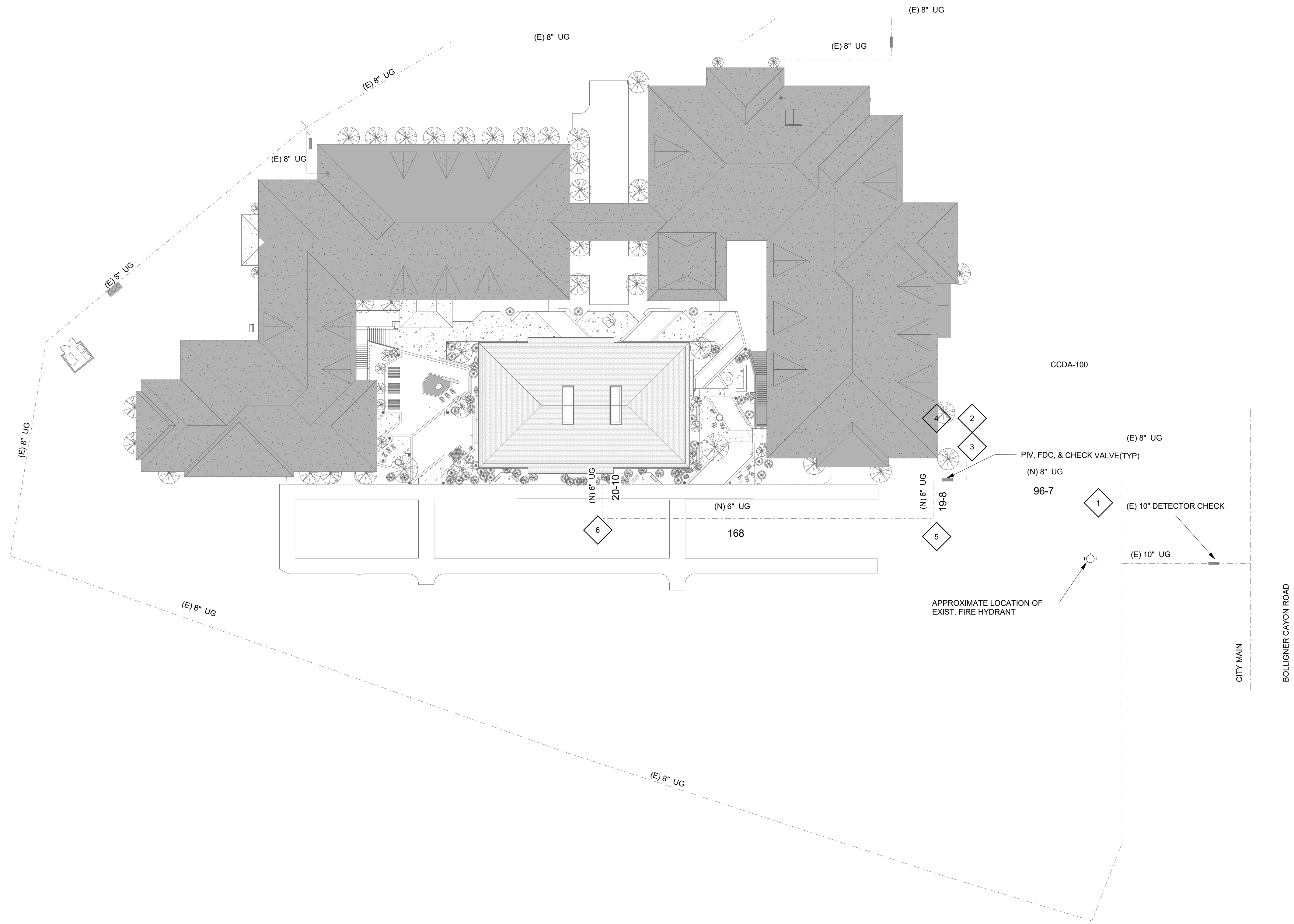
ISSUE DATE 08/22/2023

NOLL & TAM JOB NUMBER 21630

| NO. | DATE | DESCRIPTION |
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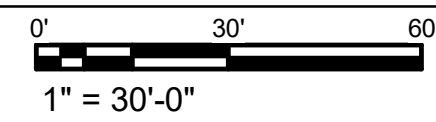
SHEET TITLE
**FIRE PROTECTION
SITE PLAN**

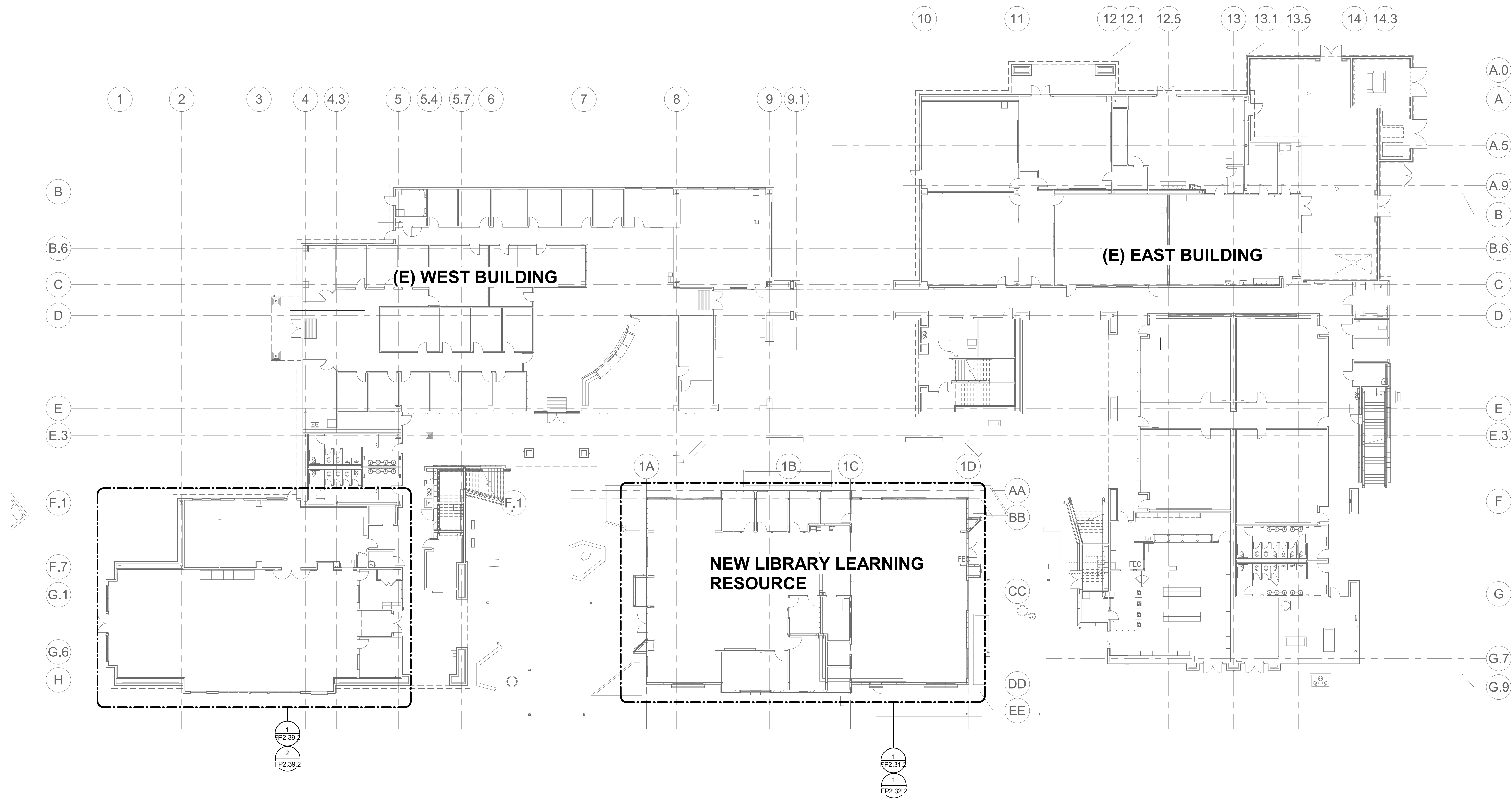
SHEET NUMBER
FP0.01.2



| WATER FLOW INFORMATION | |
|------------------------|--|
| DATE OF REPORT/TEST | 9/4/2018 |
| LOCATION | DVC, 1690 Watermill Road, San Ramon |
| MAIN SIZE | |
| STATIC PRESSURE | 100 PSI |
| RESIDUAL PRESSURE | 80 PSI |
| FLOW AT RESIDUAL | 3000 GPM |
| COMMENTS: | |
| HYDRAULIC MODEL: | |

1 FIRE PROTECTION SITE PLAN





1 FIRST FLOOR OVERALL PLAN - FIRE PROTECTION

0' 6' 16' 32'
1/16" = 1'-0"

| SPRINKLER HEAD LEGEND | | | | | | | | | | | |
|-----------------------|--|-----------|----------|--------------|----------|------|----------|-----------------------|-------------|-------|--------------------|
| SYMBOL | DESCRIPTION | MODEL NO. | K-FACTOR | ORIFICE SIZE | RESPONSE | TEMP | COVERAGE | FINISH | ESCHUTCHEON | COUNT | COMMENTS |
| ○ | UPRIGHT SPRINKLER | TY3131 | 8 | 1/2" | Quick | 200 | Standard | Metal-Victaulic-Brass | N/A | 10 | |
| ◻ | CONCEALED PENDENT SPRINKLER | TY3531 | 5.6 | 1/2" | Quick | 155 | Standard | WHITE POLY | WT | 13 | |
| ◼ | CONCEALED PENDENT SPRINKLER - WOOD CEILING | TY3531 | 5.6 | 1/2" | Quick | 155 | Standard | WHITE POLY | | 29 | CHROME COVER PLATE |

TOTAL SPRINKLERS: 52

| Hydraulic Information | |
|--------------------------|------------------------|
| Remote Area Name | TUTORIAL |
| Occupancy Classification | Light Hazard |
| Density | 0.10 |
| Total Hose Streams | 100.00 |
| Flowing Heads | 1 @ 36.90 + 11 @ 22.50 |
| K-Factor | 5.6 |
| Total Water Required | 468.61 |
| Total Pressure Required | 62.66 |
| Base of Riser | 468.61 |
| Base of Riser | 62.66 |
| Safety Margin | +36.69 (36.93%) |

SHEET KEYNOTES

- SEE CIVIL UTILITY PLAN FOR PIPE CONTINUATION. SEE DRAWING FP0.01.2, SITE PLAN - FIRE PROTECTION, FOR HYDRAULIC NODE INFORMATION.
- 6 IN FIRE SUPPLY.
- SPRINKLER BELL.
- 4 IN FIRE SPRINKLER RISER WITH TEST AND DRAIN.
- FIRE SPRINKLER TEST AND DRAIN ASSEMBLY MUST BE PROVIDED WITH A GAP THAT ALLOWS FOR THE HOSE TO TRAVERSE A FILTER SYSTEM APPROVED BY CCSD. ENVIRONMENTAL COMPLIANCE BEFORE IT IS DRAINED TO THE SANITARY SEWER.
- PROVIDE A PLACARD AT THE INSPECTOR'S TEST AND DRAIN WITH THE FOLLOWING: "A SPECIAL DISCHARGE PERMIT IS REQUIRED TO DISCHARGE FIRE SPRINKLER WATER TO THE SEWER. CONTACT THE ENVIRONMENTAL COMPLIANCE SECTION AT CENTRAL CONTRA COSTA SANITARY DISTRICT, (925)229-7268, TO OBTAIN A PERMIT."

GENERAL SHEET NOTES

- REFER TO ARCHITECTURAL DRAWINGS FOR CEILING SET DOWN DETAILS AND LOCATIONS OF SOFFITS.
- PIPE LENGTHS SHOW DO NOT INCLUDE TAKE OFF FOR FITTINGS.
- MAXIMUM HEAD SPACING FOR LIGHT HAZARD OCCUPANCIES 225 SQ FT MAXIMUM.
- MAXIMUM HEAD SPACING FOR ORDINARY HAZARD GROUP I OCCUPANCIES 130 SQ FT MAXIMUM.
- FLEXIBLE SPRINKLER LENGTH SHALL BE EITHER 36 OR 60 INCHES DEPENDING ON ELEVATION OF ASSOCIATED BRANCHLINE.

APPROVALS

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ISSUE TITLE

INCREMENT 2

ISSUE DATE 08/22/2023

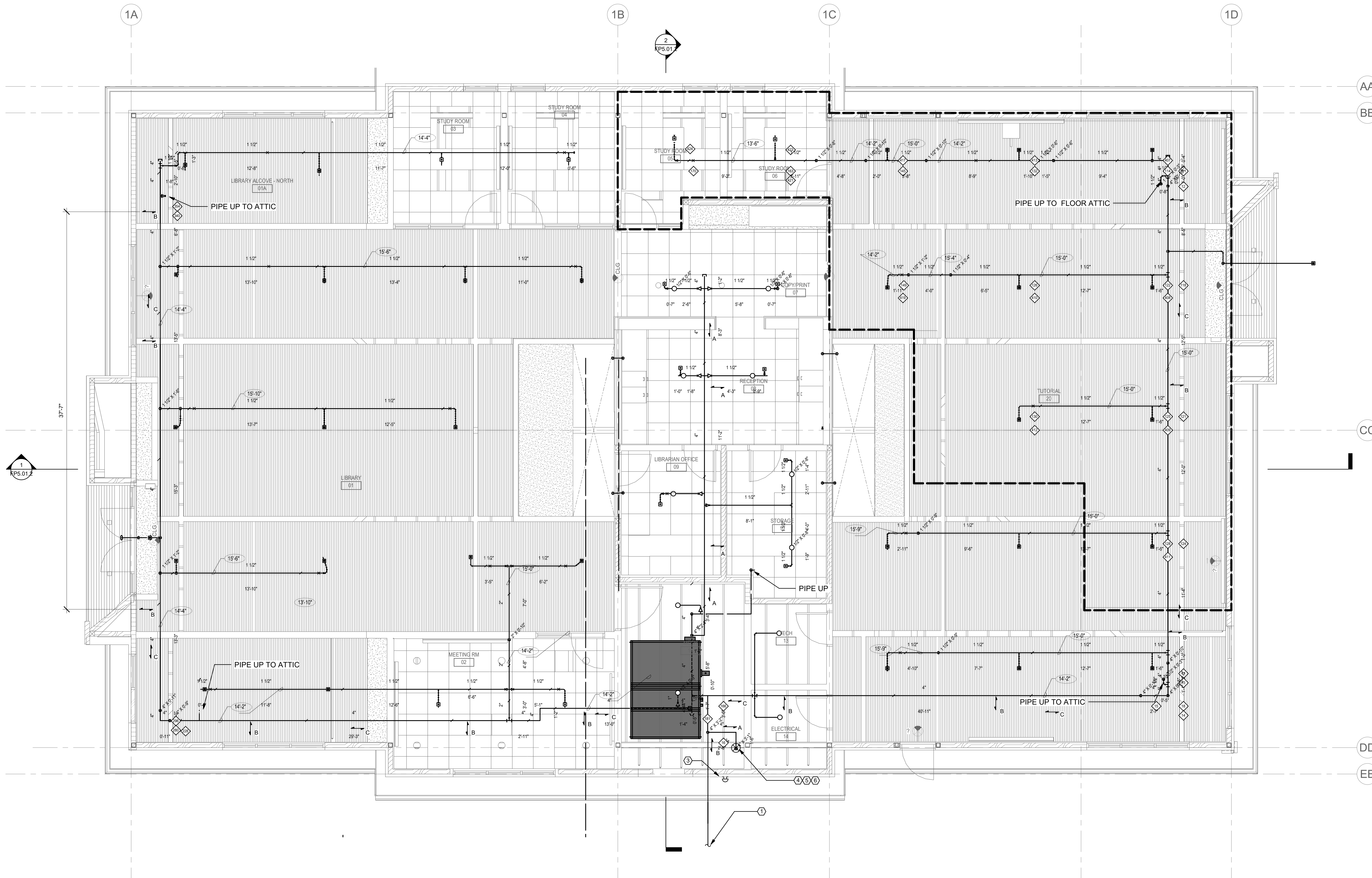
NOLL & TAM JOB NUMBER 21630

REVISIONS
NO. | DATE | DESCRIPTION

SHEET TITLE
**LIBRARY LEARNING
RESOURCE CENTER
FLOOR PLAN - FIRE
PROTECTION**

SHEET NUMBER

FP2.31.2



1 LIBRARY LEARNING RESOURCE CENTER FLOOR PLAN - FIRE PROTECTION

0' 2' 4' 8'
1/4" = 1'-0"

| SPRINKLER HEAD LEGEND | | | | | | | | | | | |
|-----------------------|--|-----------|----------|--------------|----------|------|----------|-----------------------|-------------|-------|--------------------|
| SYMBOL | DESCRIPTION | MODEL NO. | K-FACTOR | ORIFICE SIZE | RESPONSE | TEMP | COVERAGE | FINISH | ESCHUTCHCON | COUNT | COMMENTS |
| ○ | UPRIGHT SPRINKLER | TY3131 | 8 | 1/2" | Quick | 200 | Standard | Metal-Victaulic-Brass | N/A | 10 | |
| ◻ | CONCEALED PENDENT SPRINKLER | TY3531 | 5.6 | 1/2" | Quick | 155 | Standard | WHITE POLY | WT | 13 | |
| ◼ | CONCEALED PENDENT SPRINKLER - WOOD CEILING | TY3531 | 5.6 | 1/2" | Quick | 155 | Standard | WHITE POLY | | 29 | CHROME COVER PLATE |

TOTAL SPRINKLERS: 52



1 LIBRARY LEARNING RESOURCE CENTER RCP - FIRE PROTECTION
0' 4' 8' 16'
1/4" = 1'-0"

SPRINKLER HEAD LEGEND

| SYMBOL | DESCRIPTION | MODEL NO. | K-FACTOR | ORIFICE SIZE | RESPONSE | TEMP | COVERAGE | FINISH | ESCHUTCHEON | COUNT | COMMENTS |
|--------|-------------------------------|-----------|----------|--------------|----------|------|----------|-----------------------|-------------|-------|----------|
| ⊗ | HIP SPRINKLER | TY3187 | 5.6 | 1/2" | Quick | 200 | Standard | Metal-Victaulic-Brass | N/A | 24 | |
| ⊙ | BACK TO BACK SPRINKLER | TY4180 | 8 | 1/2" | Quick | 200 | Standard | Metal-Victaulic-Brass | N/A | 7 | |
| ∇ | HORIZONTAL SIDEWALL SPRINKLER | TY3321 | 5.6 | 1/2" | Quick | 155 | Standard | Metal-Victaulic-White | | 4 | |

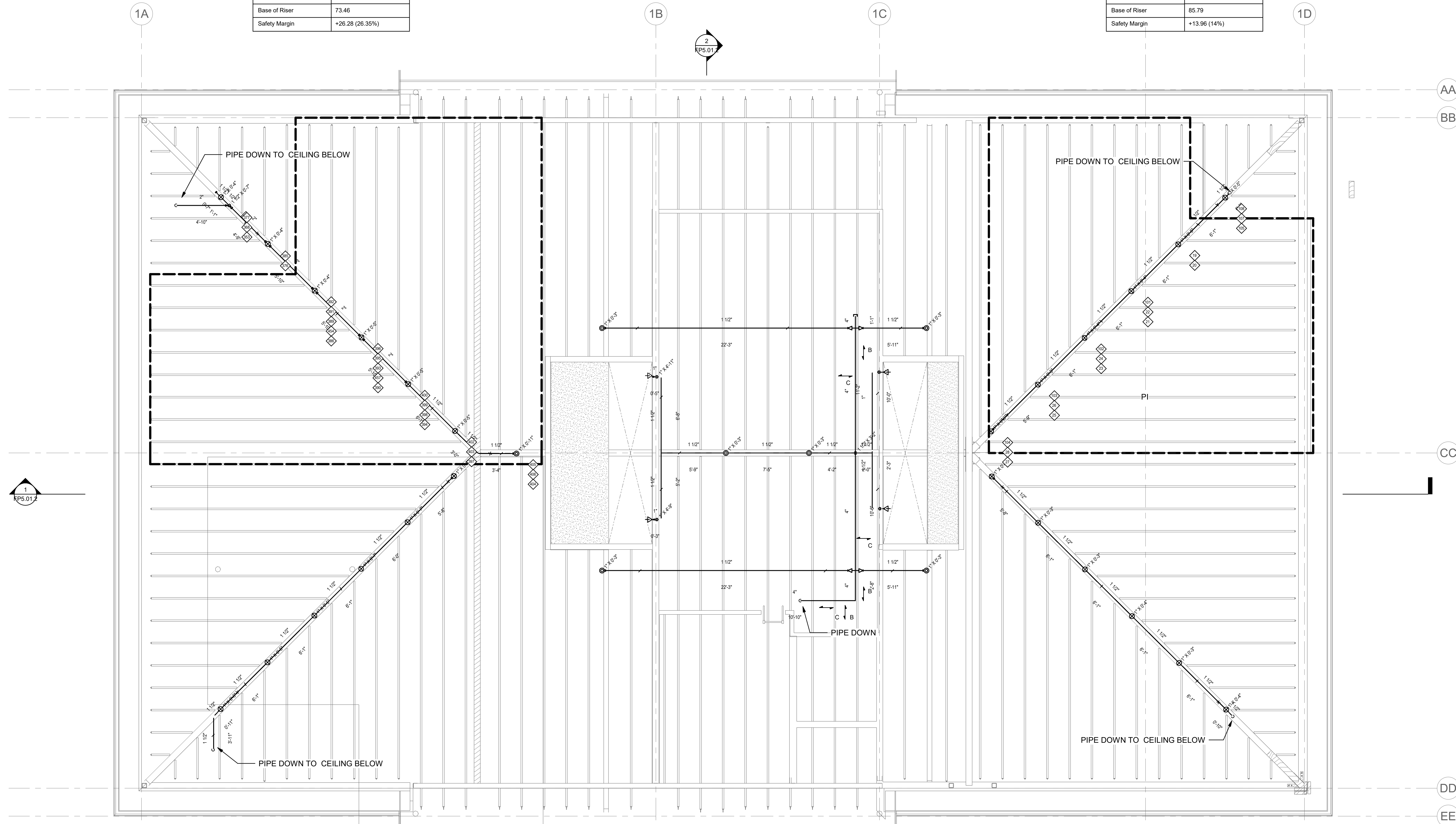
TOTAL SPRINKLERS: 35

GENERAL SHEET NOTES

- REFER TO ARCHITECTURAL DRAWINGS FOR CEILING SET DOWN DETAILS AND LOCATIONS OF SOFFITS.
- PIPE LENGTHS SHOW DO NOT INCLUDE TAKE OFF FOR FITTINGS.
- PIPE LENGTH SHOWN ON ATTIC HIP IS MEASURED ALONG HIP RIDGE.

| Hydraulic Information | |
|--------------------------|-----------------------|
| Remote Area Name | NW HIP |
| Occupancy Classification | Light Hazard |
| Density | 0.10 |
| Total Hose Streams | 100.00 |
| Flowing Heads | 4 @ 36.90 + 1 @ 22.60 |
| K-Factor | 5.6 |
| Total Water Required | 287.43 |
| Total Pressure Required | 73.46 |
| Base of Riser | 287.43 |
| Base of Riser | 73.46 |
| Safety Margin | +26.28 (26.35%) |

| Hydraulic Information | |
|--------------------------|--------------|
| Remote Area Name | NE HIP |
| Occupancy Classification | Light Hazard |
| Density | 0.10 |
| Total Hose Streams | 100.00 |
| Flowing Heads | 5 @ 36.90 |
| K-Factor | 5.6 |
| Total Water Required | 278.56 |
| Total Pressure Required | 85.79 |
| Base of Riser | 278.56 |
| Base of Riser | 85.79 |
| Safety Margin | +13.96 (14%) |



1 LIBRARY LEARNING RESOURCE CENTER ATTIC PLAN - FIRE PROTECTION

0' 2' 4' 8'
1/4" = 1'-0"

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PROJECT TITLE

**CONTRA COSTA
CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION &
RENOVATION**

1690 Watermill Rd.
San Ramon, CA 94582

RECORD SET:

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ISSUE TITLE

INCREMENT 2

ISSUE DATE **08/22/2023**

NOLL & TAM JOB NUMBER **21630**

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
| | | |

SHEET TITLE
**LIBRARY LEARNING
RESOURCE CENTER
ATTIC - FIRE
PROTECTION**

SHEET NUMBER
FP2.33.2

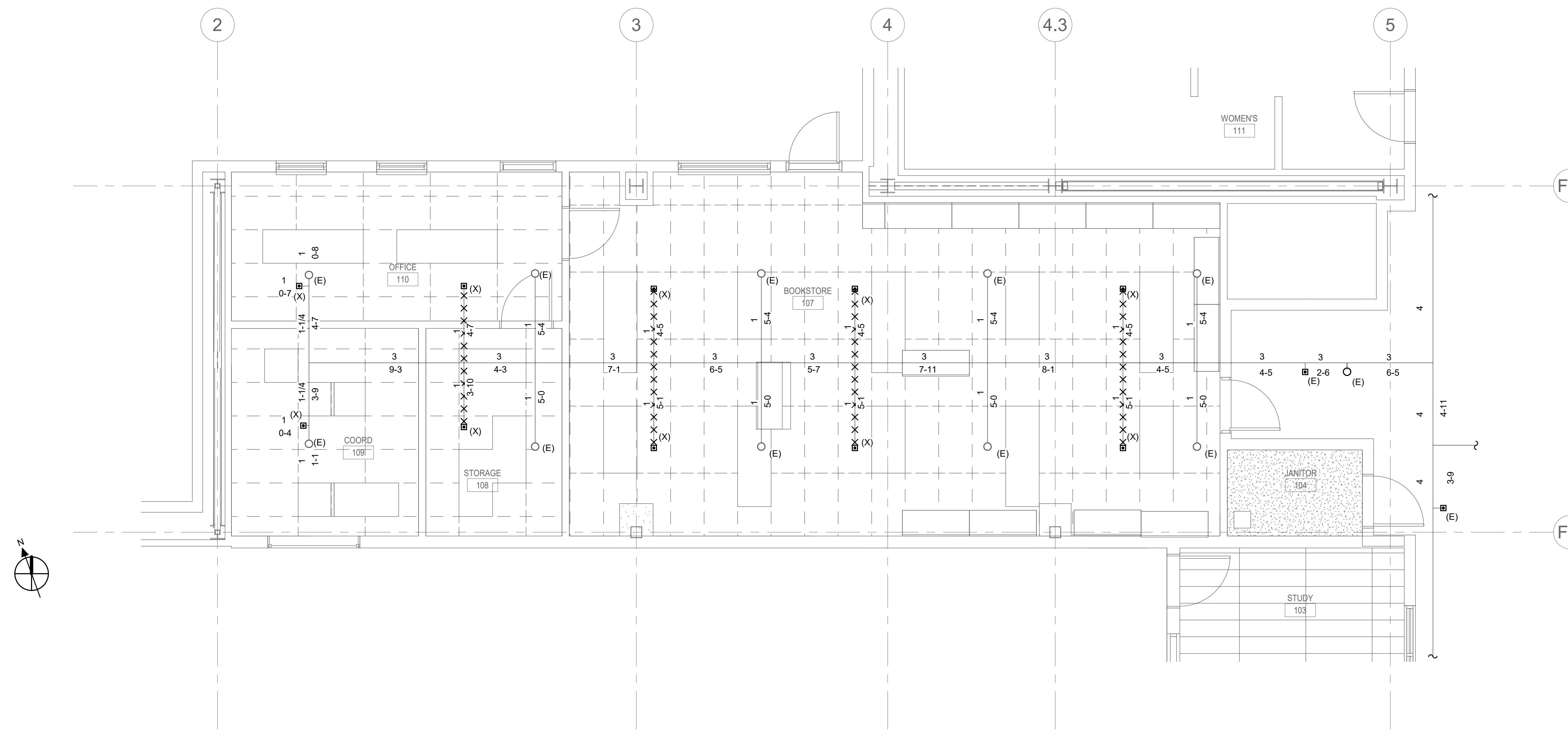
GENERAL SHEET NOTES

- 1 PROTECT ALL EXISTING SPRINKLER HEADS TO REMAIN. REMOVE PROTECTIVE COVER(S) ONCE NEW SPRINKLER COMPONENTS ARE INSTALLED.
- 2 PROTECT EXISTING SPRINKLER PIPING DURING DEMO WORK FOR NEW CONNECTION(S) TO NEW SPRINKLER PIPING.

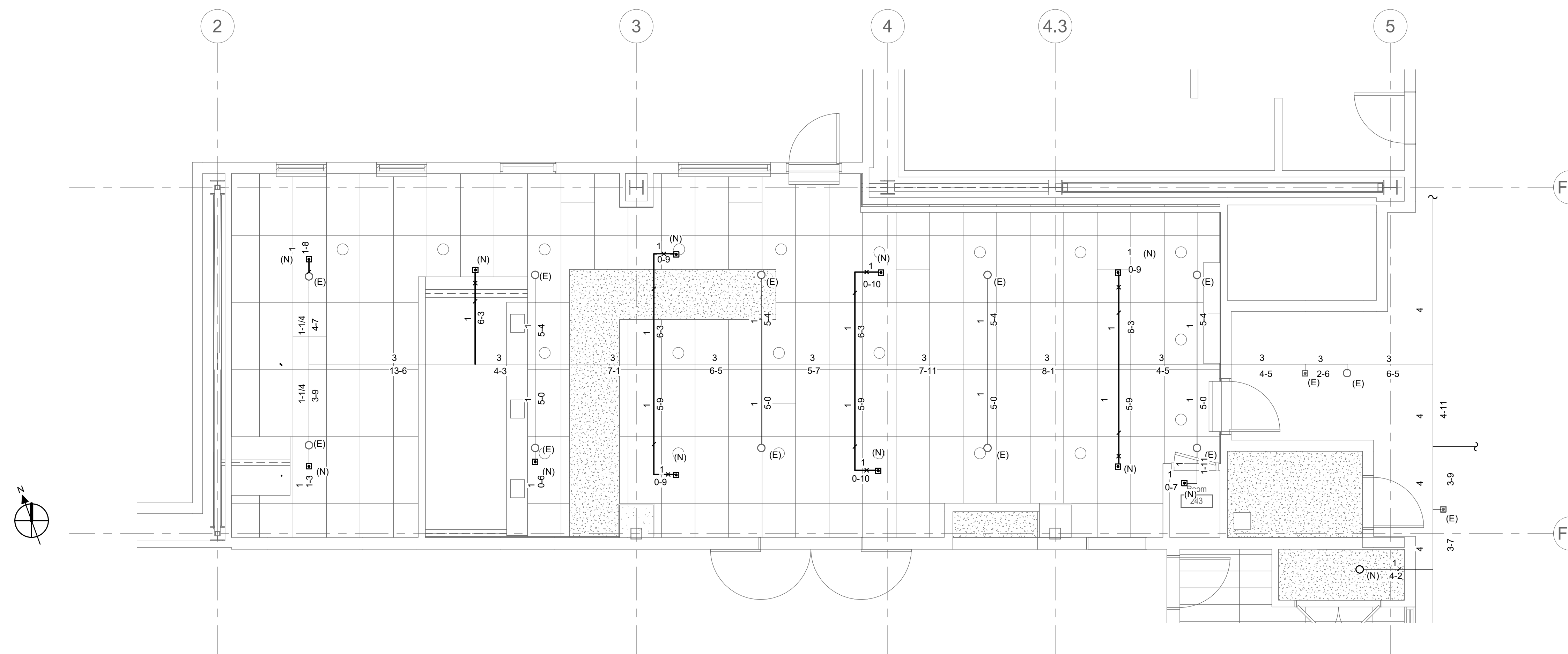
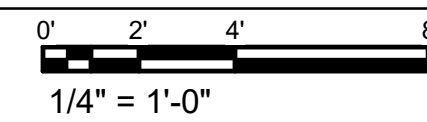
SPRINKLER HEAD LEGEND

| SYMBOL | DESCRIPTION | MODEL NO. | K-FACTOR | ORIFICE SIZE | RESPONSE | TEMP | COVERAGE | FINISH | ESCHUTCHEON | COUNT | COMMENTS |
|--------|-----------------------------|-----------|----------|--------------|----------|------|----------|-----------------------|-------------|-------|----------|
| ○ | UPRIGHT SPRINKLER | TY3131 | 8 | 1/2" | Quick | 200 | Standard | Metal-Victaulic-Brass | N/A | 12 | |
| ◻ | CONCEALED PENDENT SPRINKLER | TY3531 | 5.6 | 1/2" | Quick | 155 | Standard | WHITE POLY | WT | 11 | |

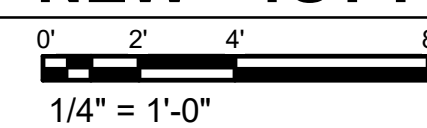
TOTAL SPRINKLERS: 23



1 DEMO - 1ST FLOOR PLAN - CAFE AND LEARNING - FIRE PROTECTION



2 NEW - 1ST FLOOR PLAN - CAFE AND LEARNING - FIRE PROTECTION



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| | | |

SHEET TITLE

**DEMO & NEW - 1ST
FLOOR - WEST - CAFÉ
& LEARNING
COMMONS - FIRE
PROTECTION**

SHEET NUMBER

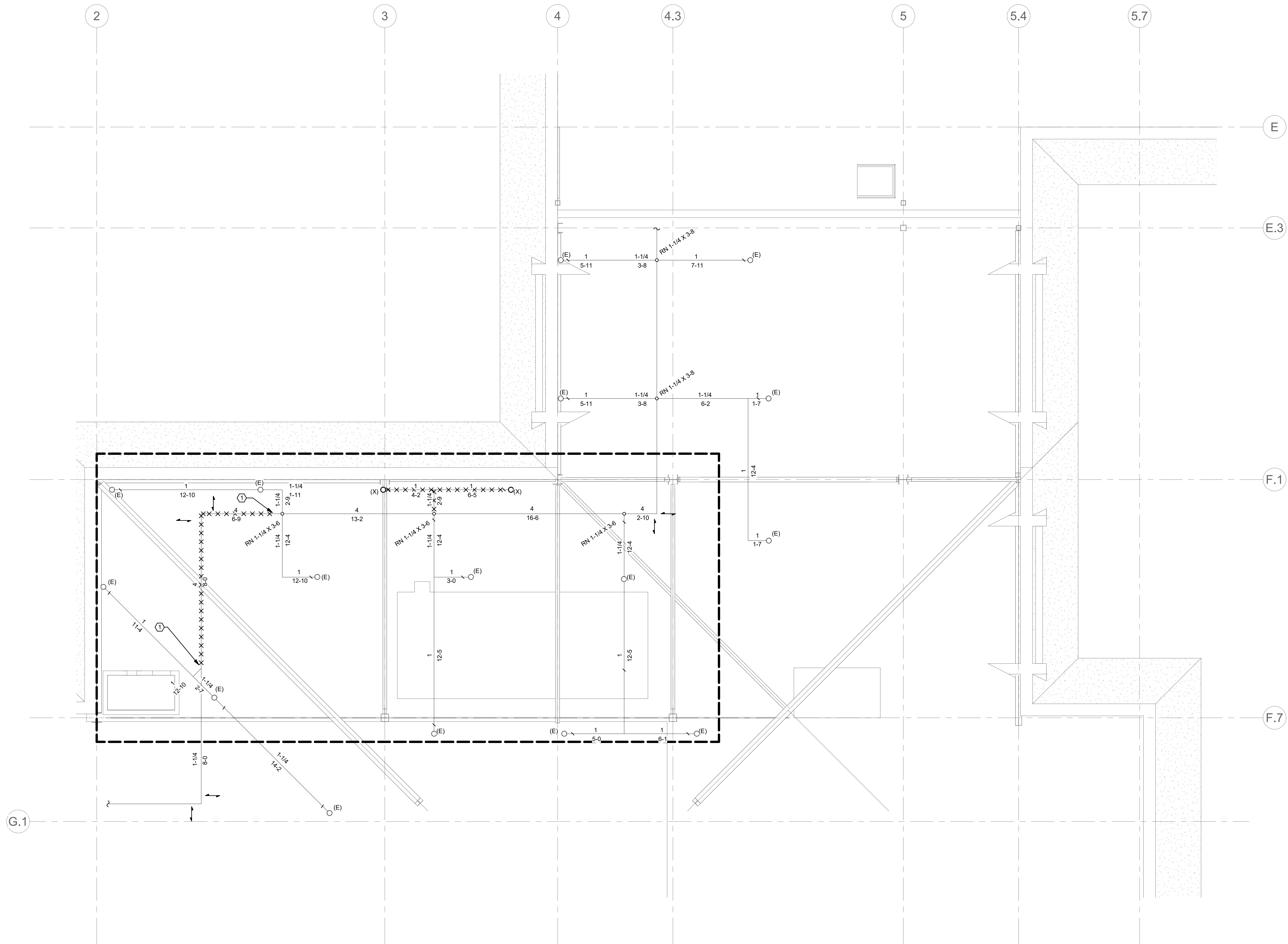
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GENERAL SHEET NOTES

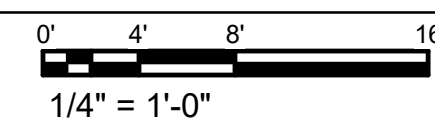
- EXISTING CONDITIONS BASED ON SHOP DRAWINGS DATED 06/2005. ANY DISCREPANCIES OR DEFICIENCIES DISCOVERED ON SITE SHALL BE CORRECTED IN ACCORDANCE WITH ADOPTED CODES AND STANDARDS.
- PROTECT ALL EXISTING SPRINKLER HEADS TO REMAIN. REMOVE PROTECTIVE COVER(S) ONCE NEW SPRINKLER COMPONENTS ARE INSTALLED.
- PROTECT EXISTING SPRINKLER PIPING DURING DEMO WORK FOR NEW CONNECTION(S) TO NEW SPRINKLER PIPING.

SHEET KEYNOTES

- CAP BRANCHLINE/MAN.



1 DEMO PARTIAL ATTIC PLAN PLAN - WEST- FIRE PROTECTION



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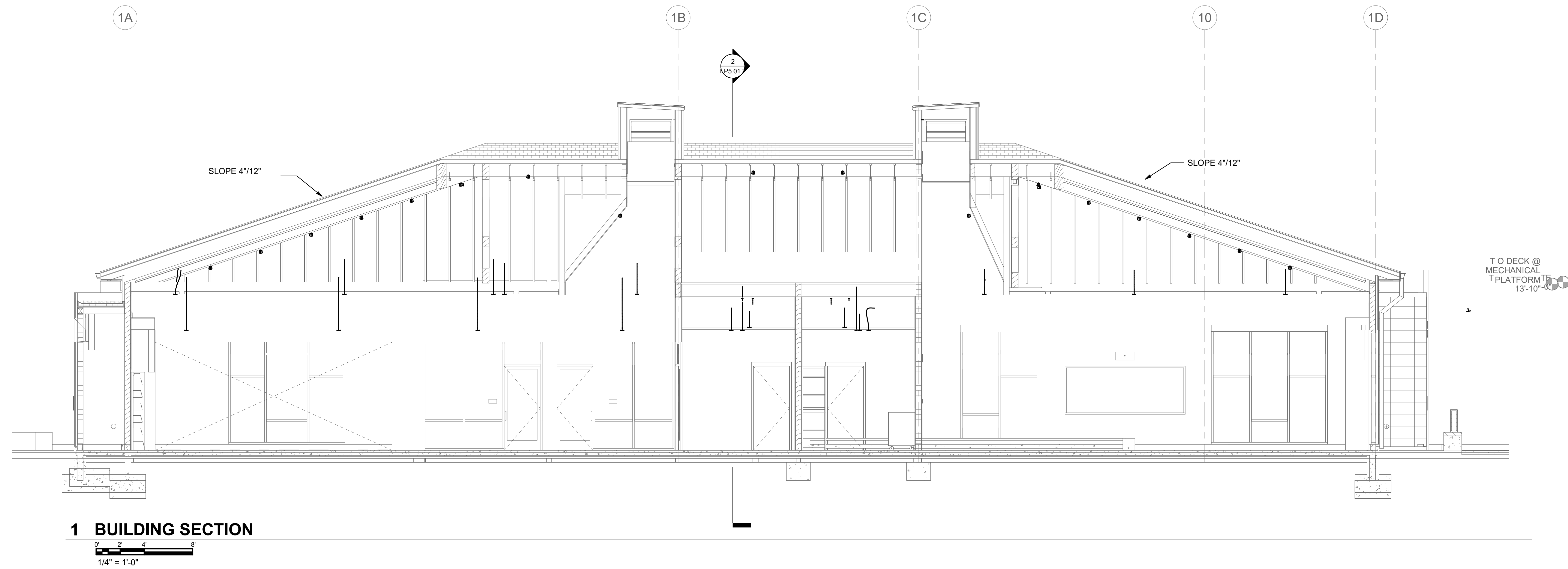
REVISIONS

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
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SHEET TITLE
**DEMO PARTIAL ATTIC
PLAN PLAN - WEST-
FIRE PROTECTION**

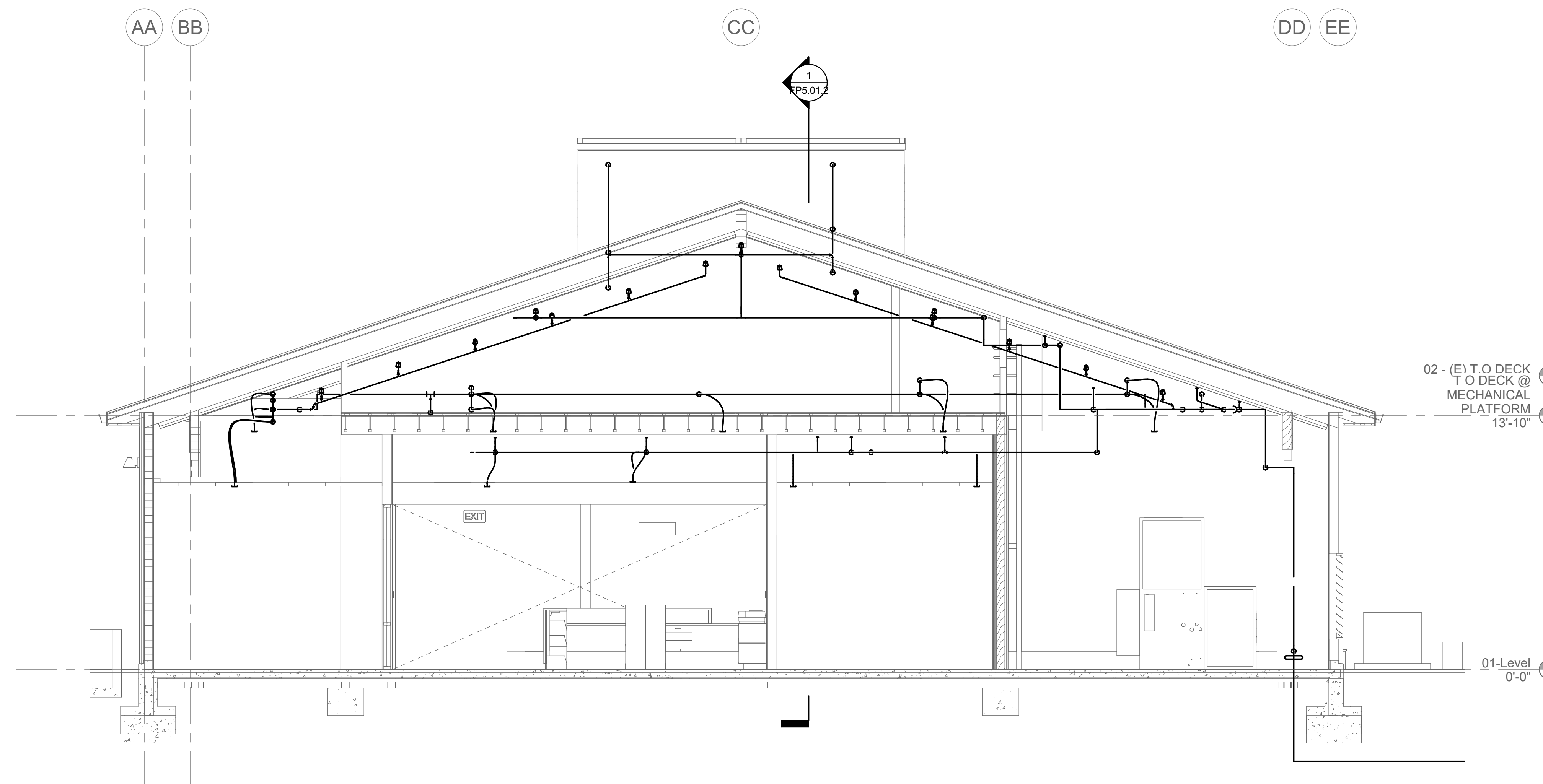
SHEET NUMBER
FP2.40.2





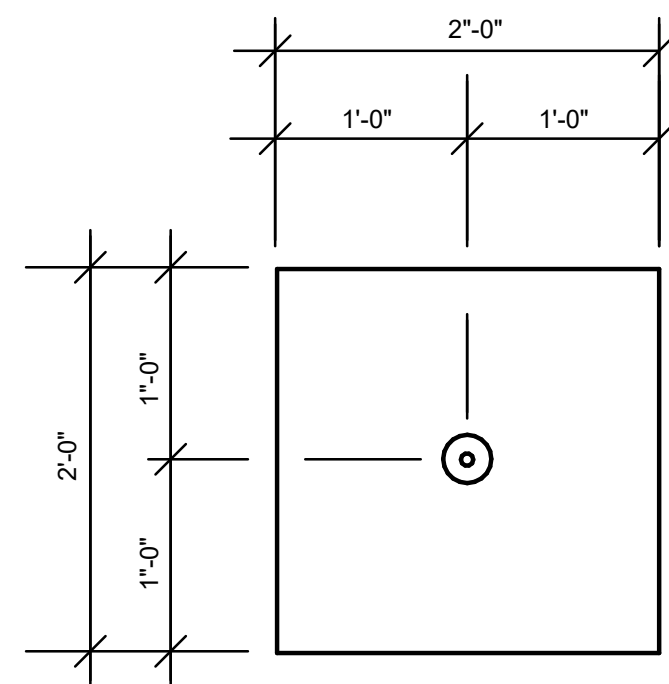
1 BUILDING SECTION

0' 2' 4' 8'
1/4" = 1'-0"

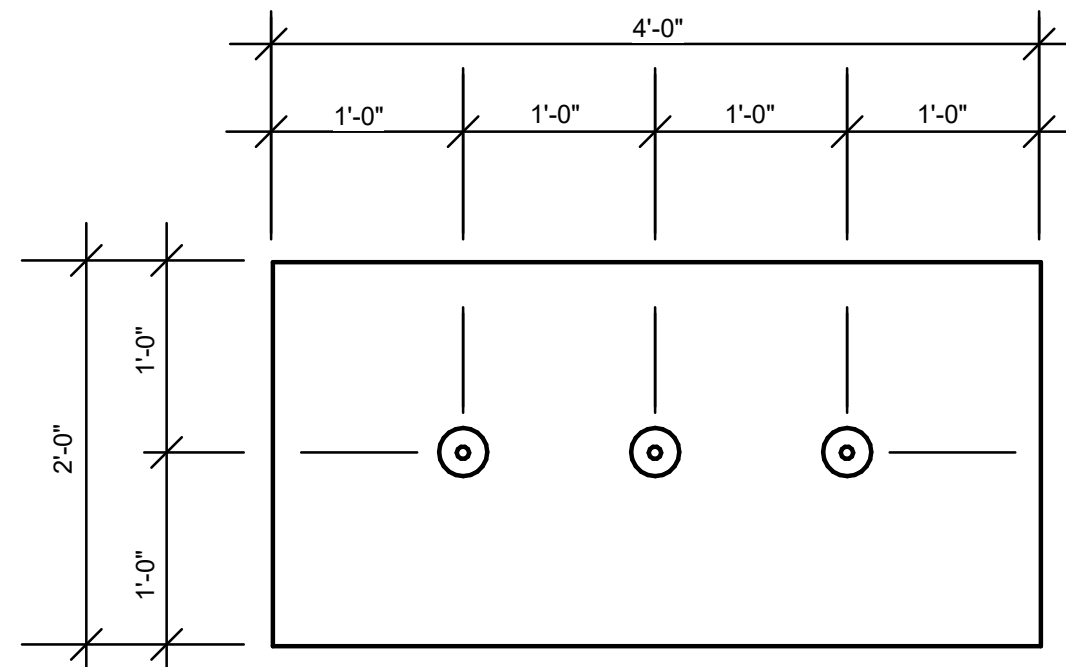


2 BUILDING SECTION 2

0' 2' 4' 8'
1/4" = 1'-0"



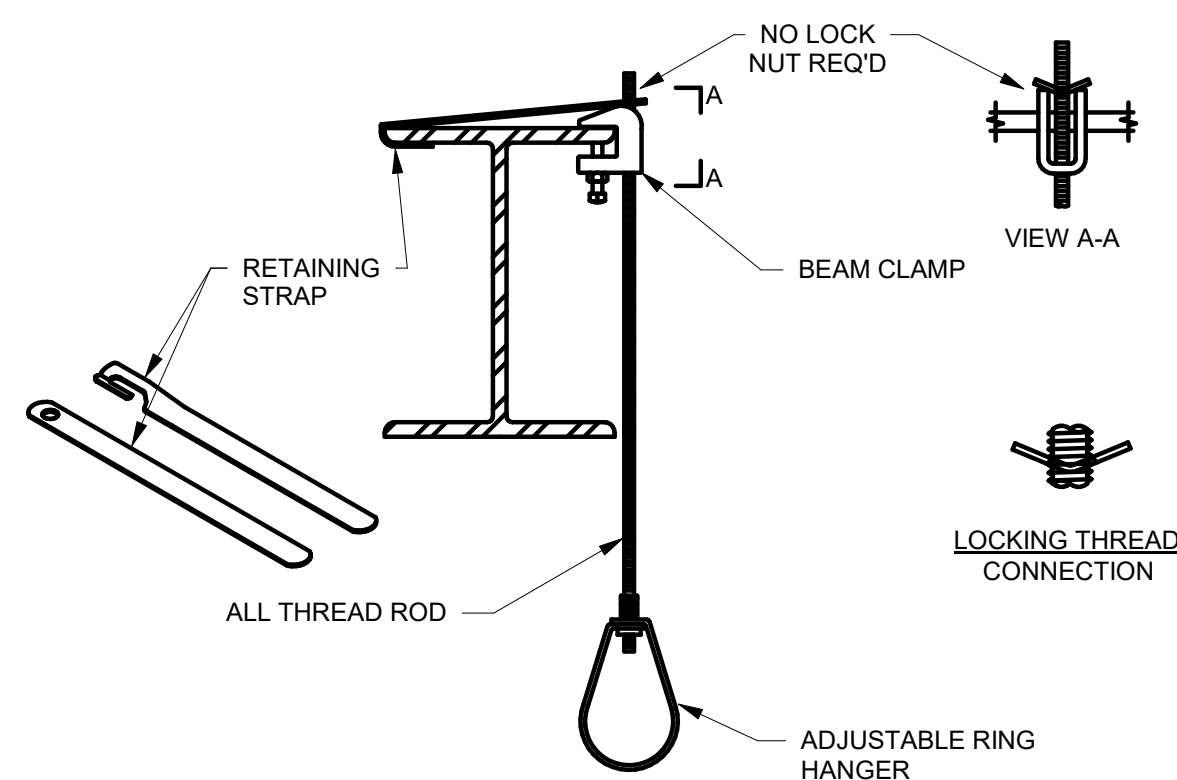
CENTER OF TILE (PEND.) DIAGRAM
2 X 2 TILE



CENTER OF TILE (PEND.) DIAGRAM
2 X 4 TILE

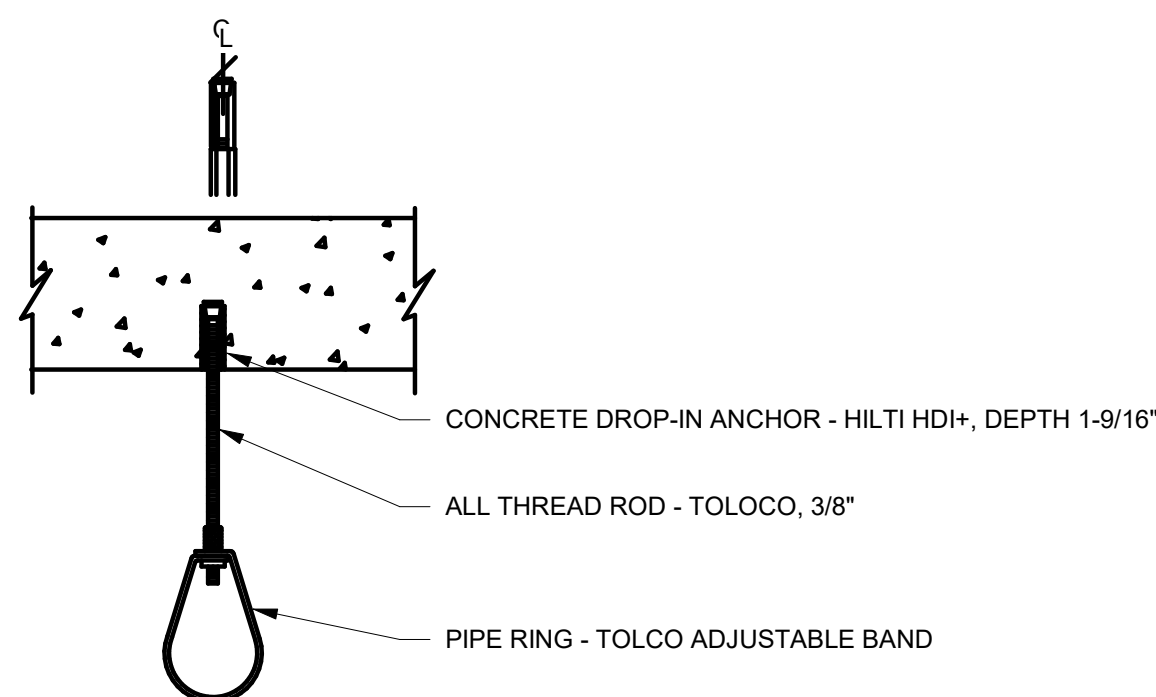
1 TILE DETAIL

NO SCALE



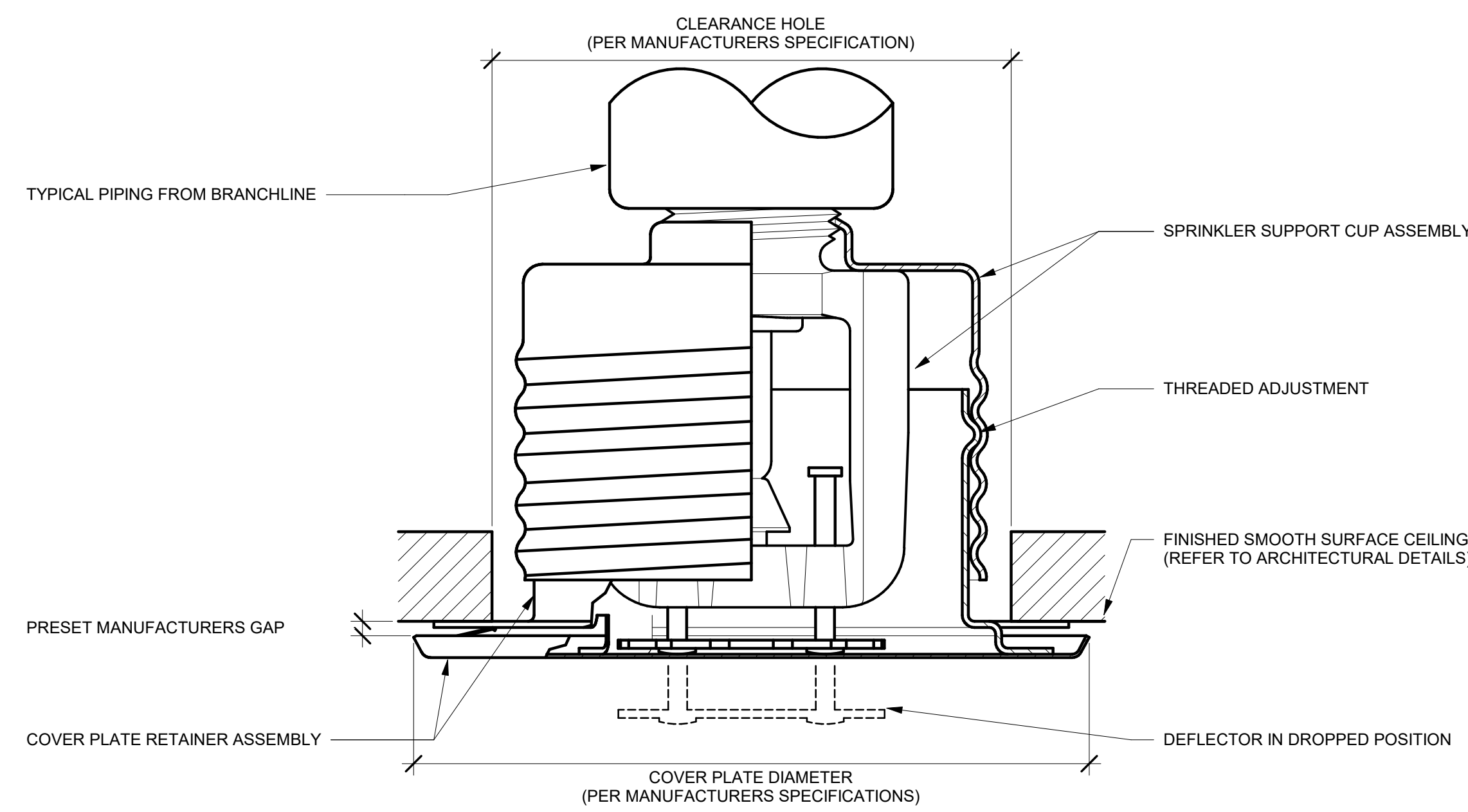
2 REVERSIBLE BEAM CLAMP

NO SCALE



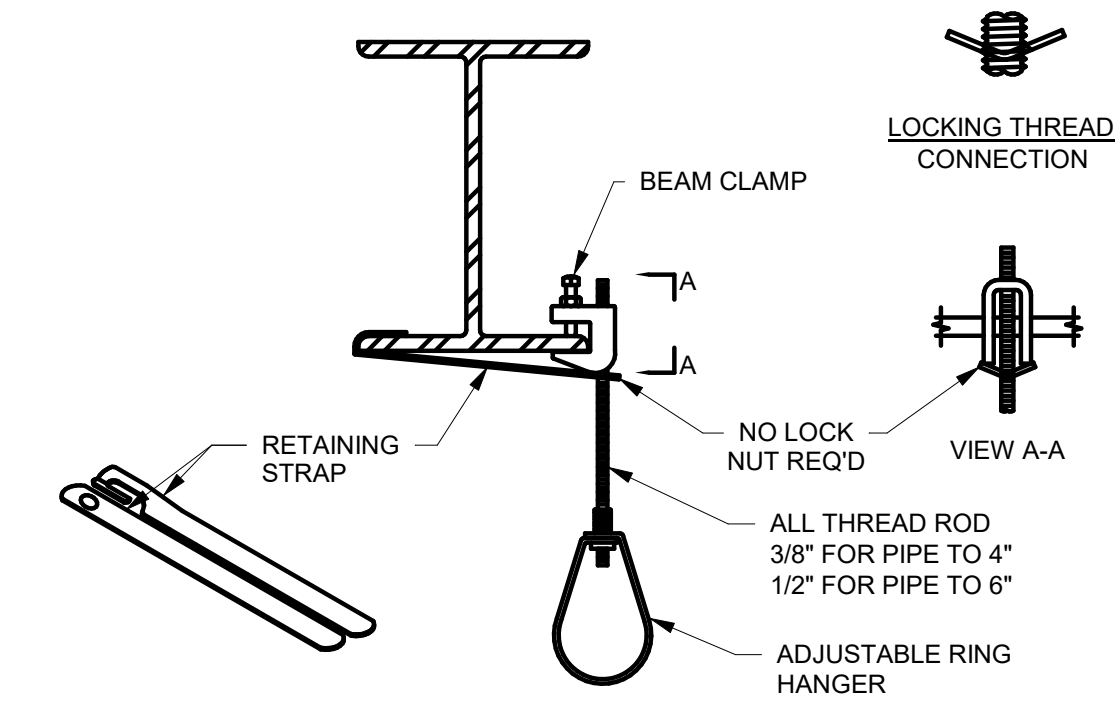
3 DRILLED CONCRETE ANCHOR HANGER

NO SCALE



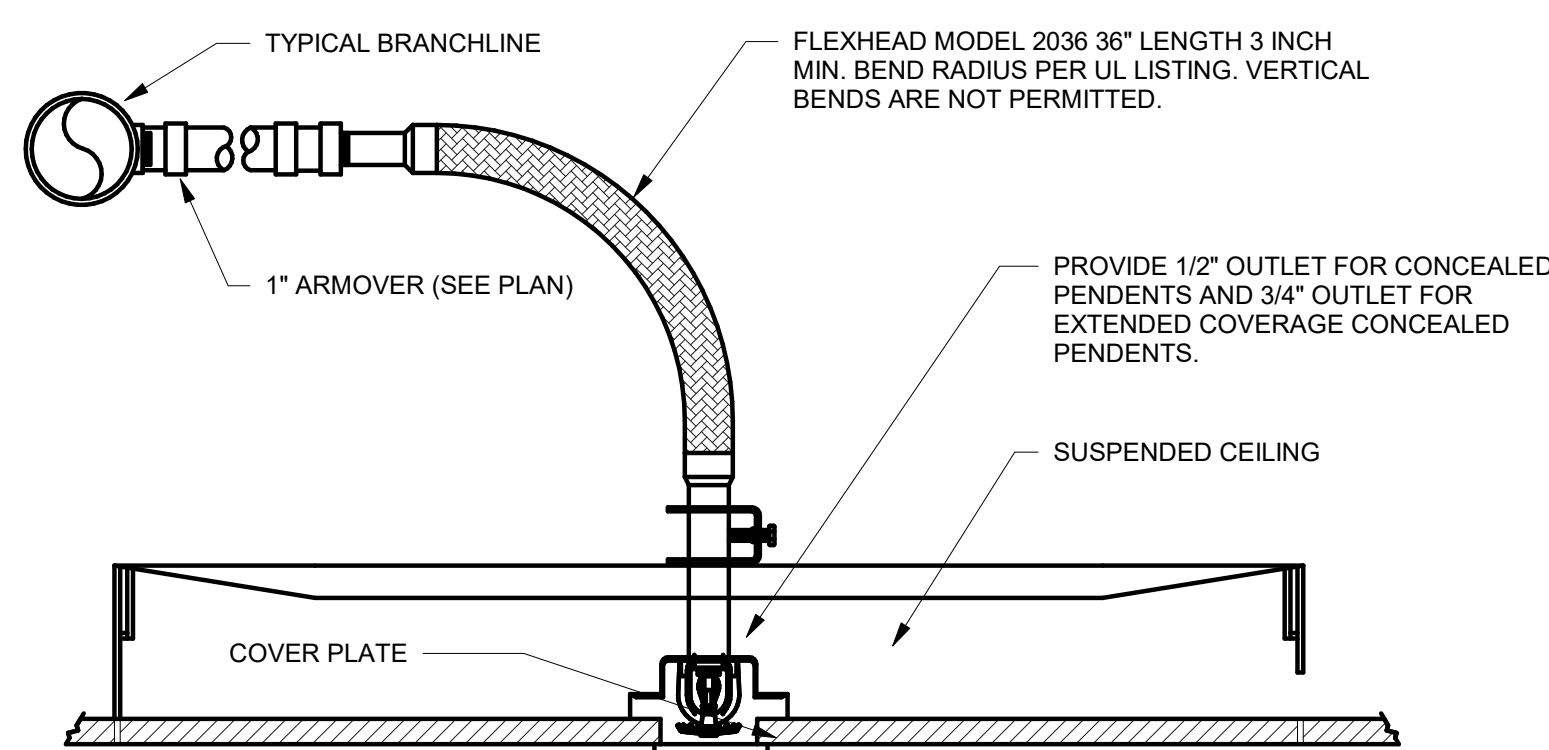
4 CONCEALED FLAT PLATE SPRINKLER

NO SCALE



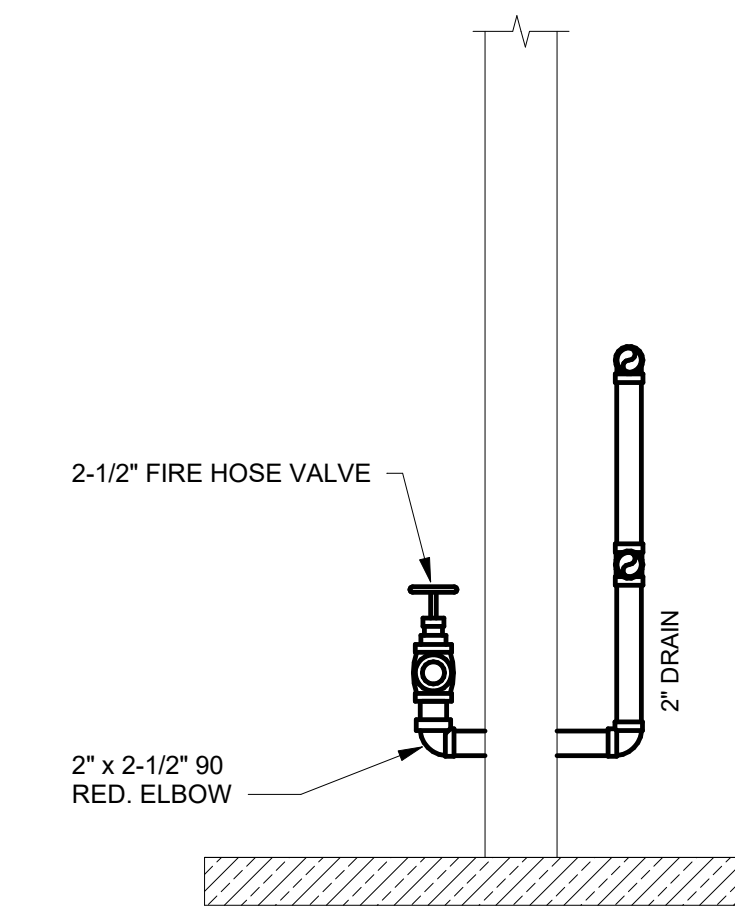
7 C-CLAMP HANGER WITH RETAINER STRAP

NO SCALE



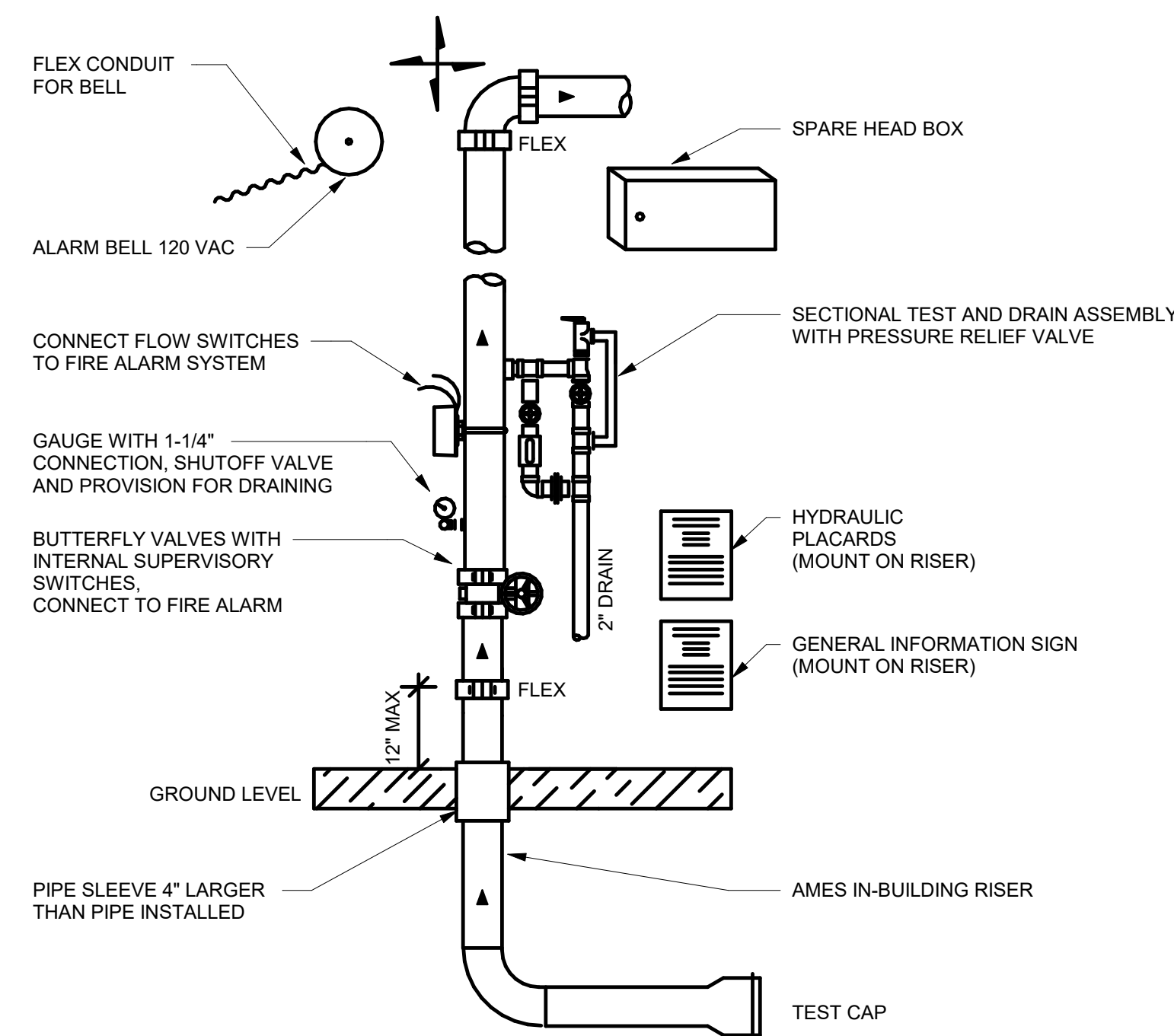
5 DROP TILE CEILING - SPRINKLER ON FLEX

NO SCALE



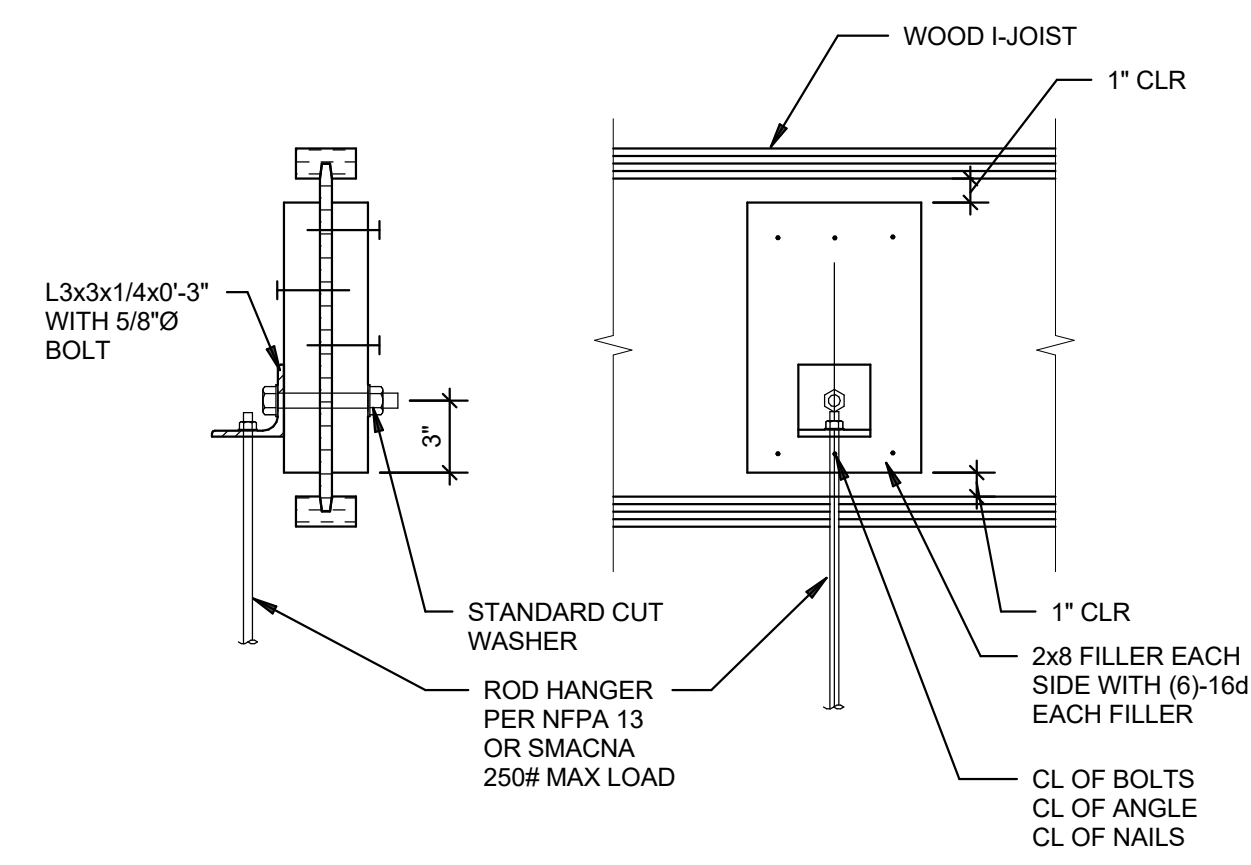
8 MAIN DRAIN WITH HOSE VALVE

NO SCALE



6 WET SPRINKLER RISER

NO SCALE

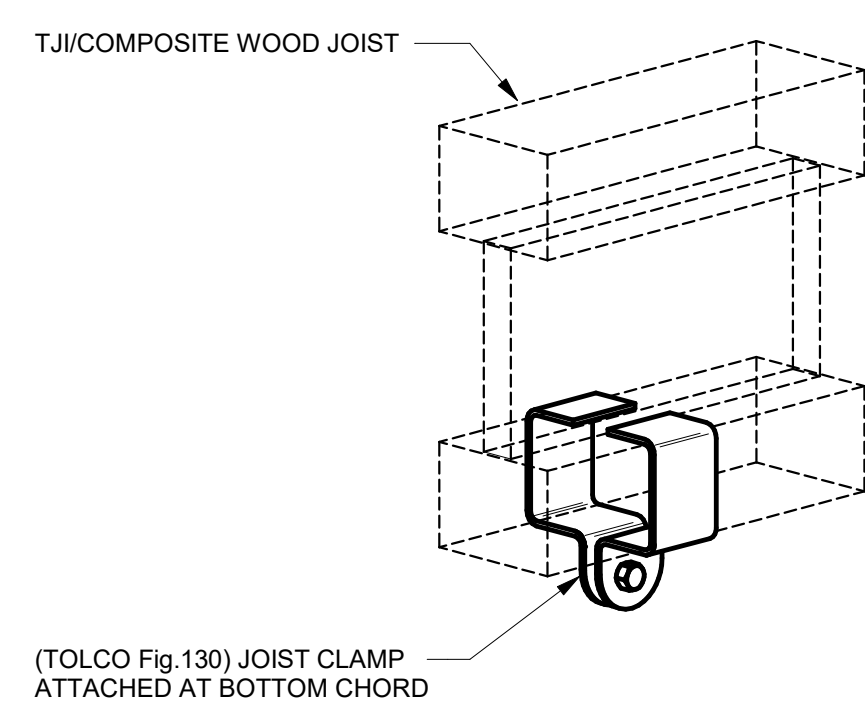


1 TYPICAL HANGER FROM I-JOIST
NO SCALE

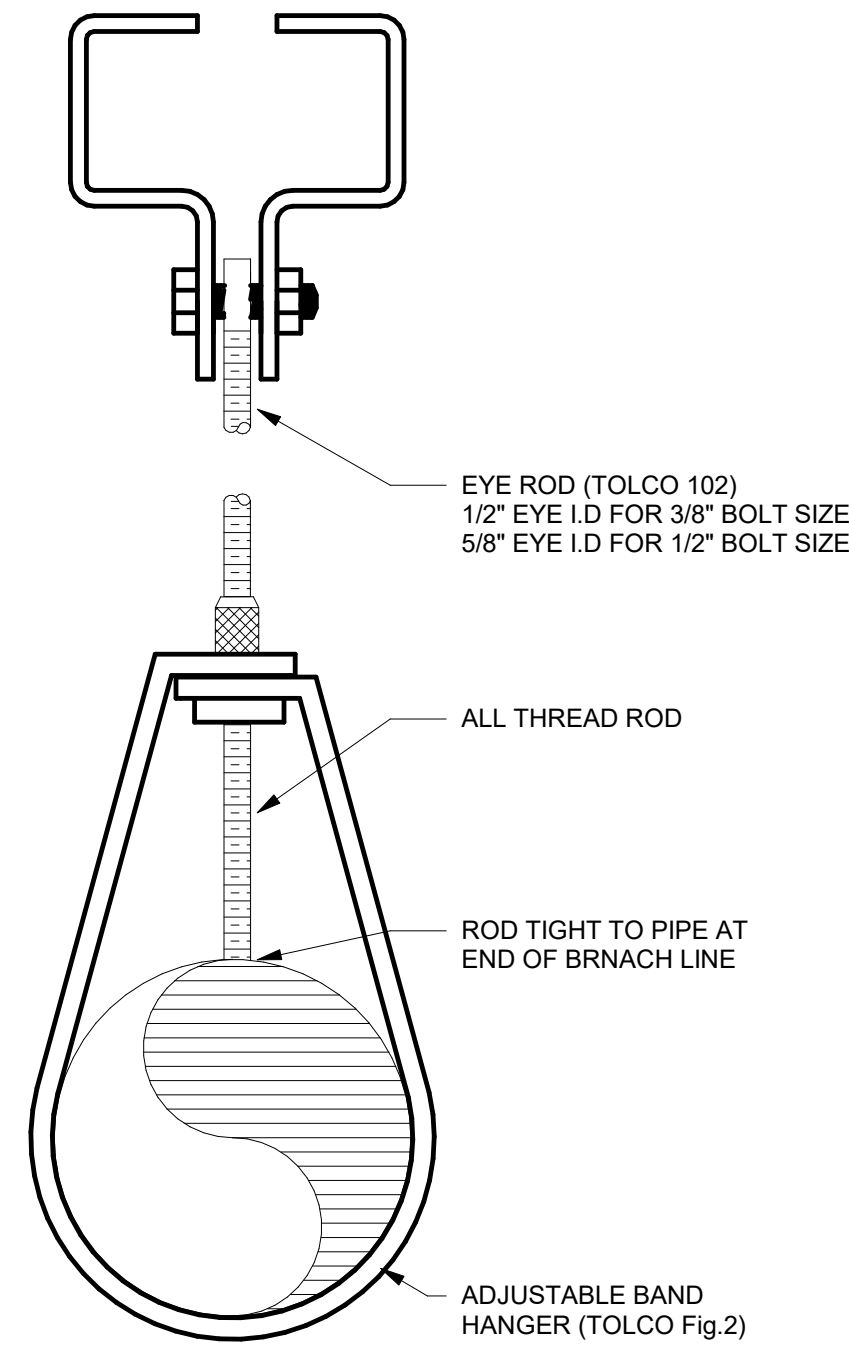
RFI #83- SUBSTITUTE TOLCO FIG 58 FOR CURRENT SIDE BEAM USED IN 1 TYPICAL HANGER JOIST. TOLCO FIG 58 USABLE FOR UP TO 4 PIPE.
SUBSTITUTE VERTICAL WOOD SAMMYS FOR USE UNDER LARGE SOLID WOOD BEAMS.

APPROVALS: SIZES 1-4 ARE (U.S.) LISTED IN USA AND CANADA (GUL) THROUGH 4" (100mm) PIPE. ALL FIG. 130 BEAM CLAMPS MEET REQUIREMENTS OF (FM) AND NFPA 13, THROUGH 4" (100mm) PIPE.

MATERIAL THICKNESS: 11 GAUGE (3.0)

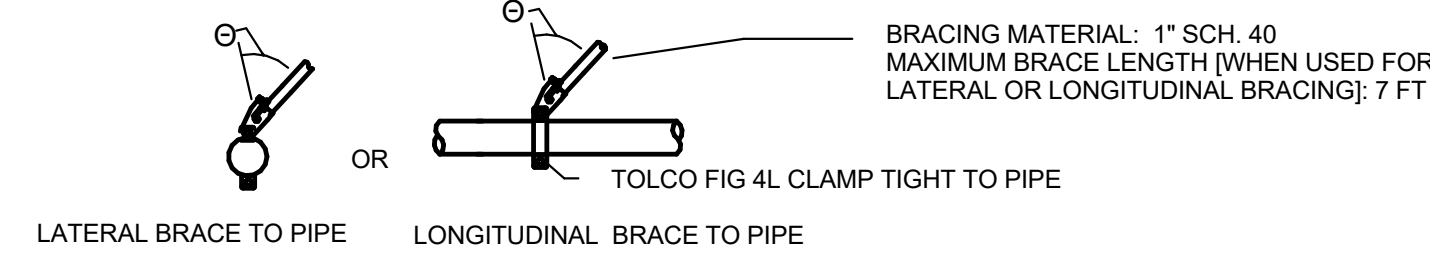


2 COMPOSITE WOOD JOIST CLAMP
NO SCALE

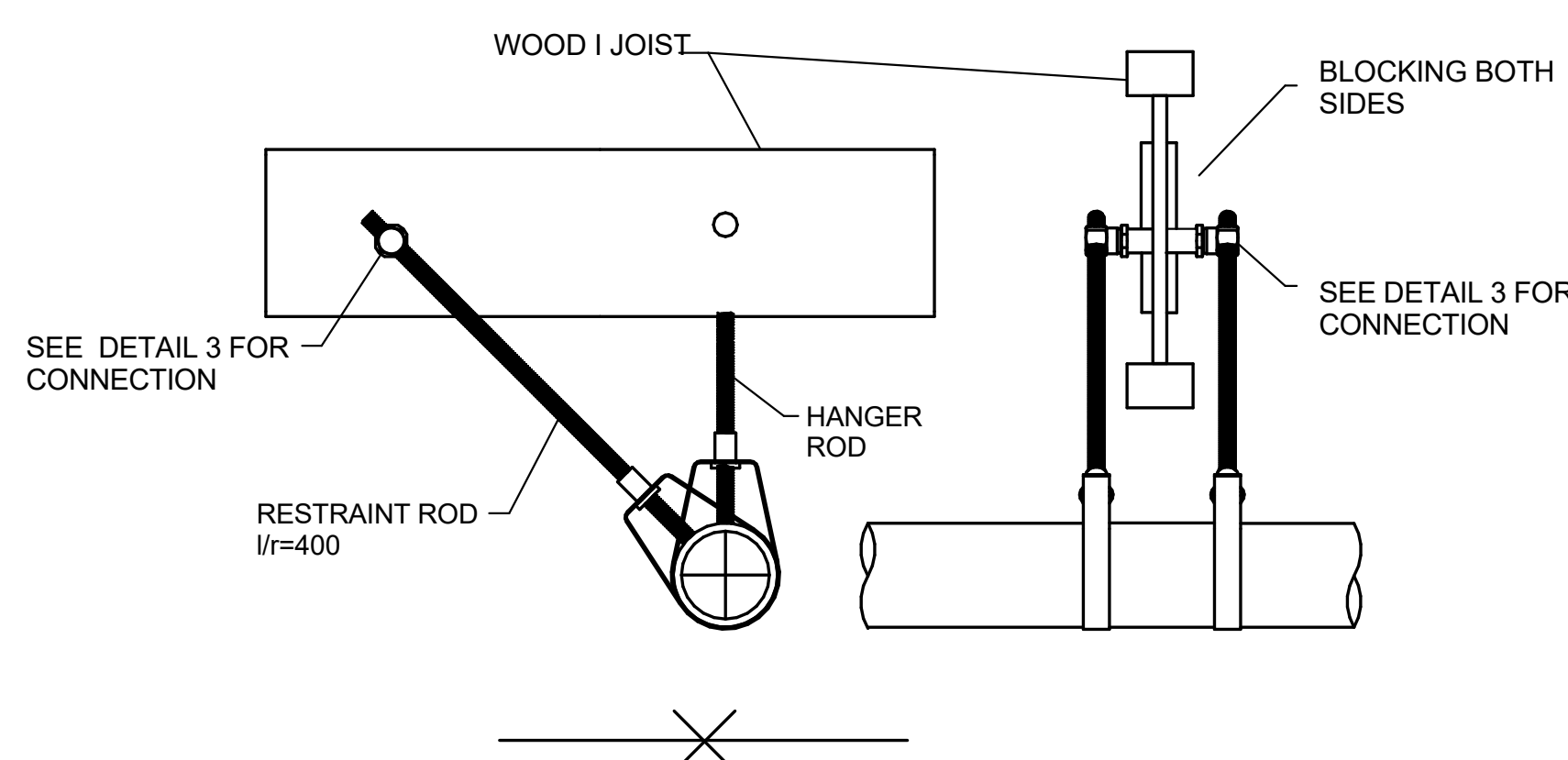


DETAIL KEYNOTES

- 2 x 6 x 12" FILLER BLOCK EACH SIDE OF WEB UNDER TOP FLANGE
- #8 x 2-1/2" LONG (MINIMUM) WOOD SCREWS (6 EACH SIDE)
- WASHER
- SWIVEL SWAY BRACE FITTING
- 3/4" DIAMETER, 5-1/2" BOLT

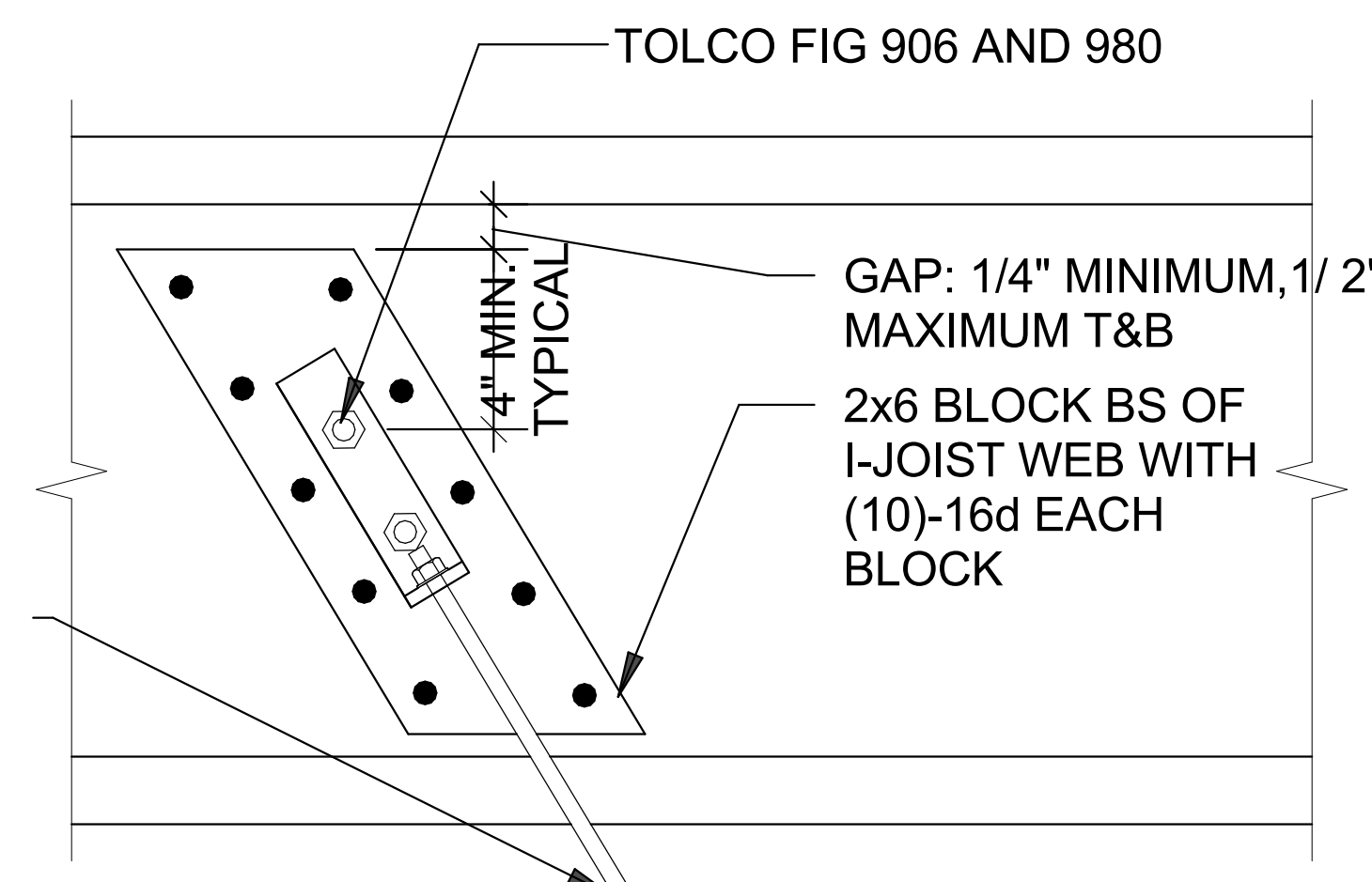


3 BRACE ATTACHMENT - FORCES PARALLEL OR PERPENDICULAR TO JOISTS
NO SCALE

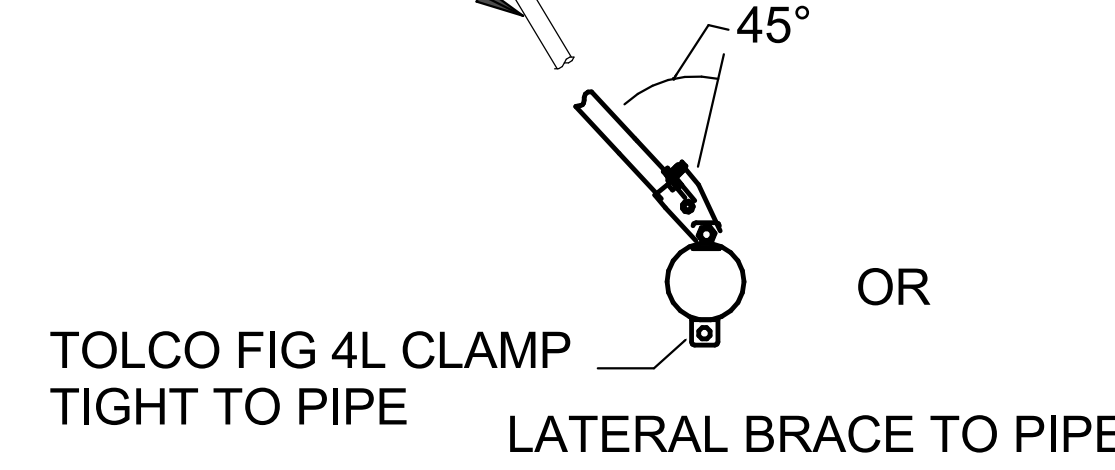


4 BRANCHLINE RESTRAINT
NO SCALE

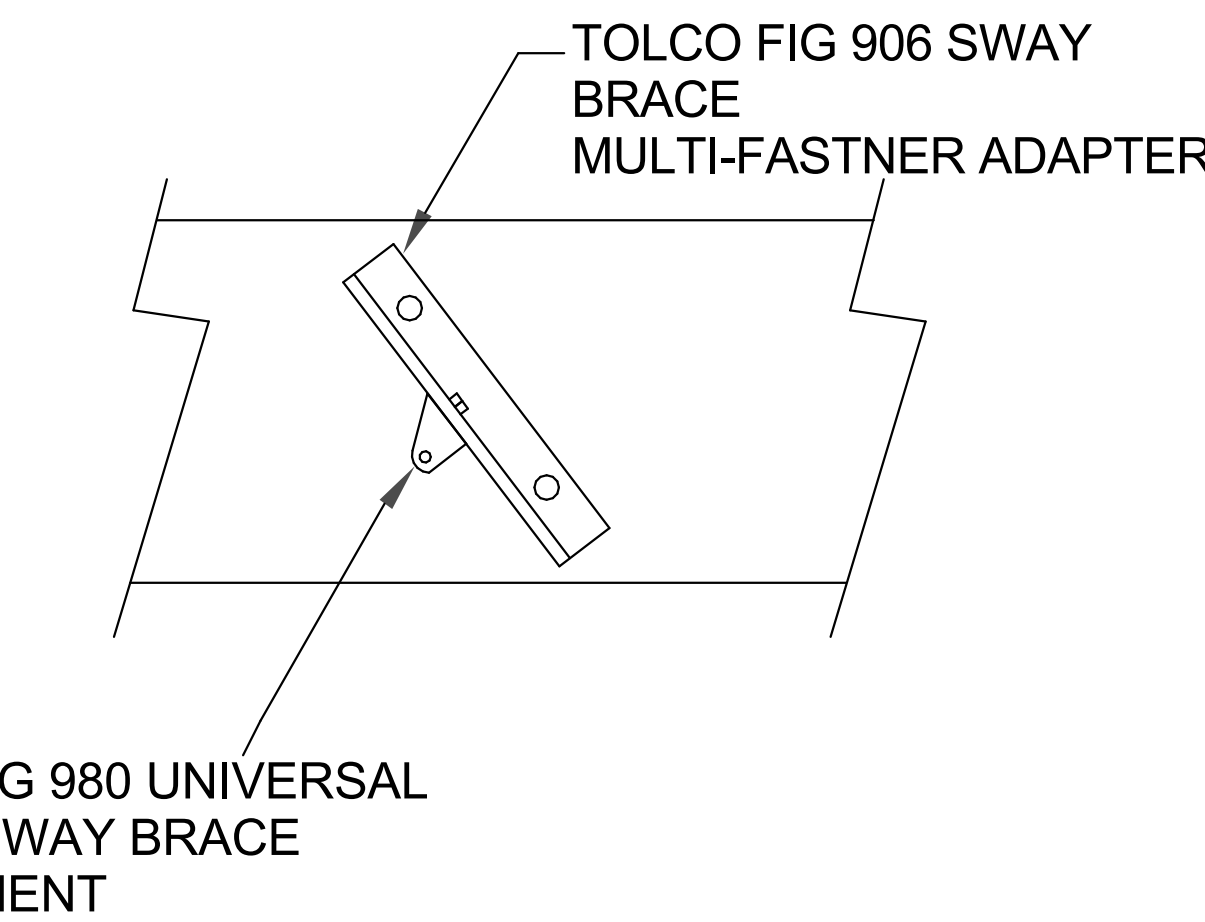
BRACING MATERIAL: 1" SCH. 40
MAXIMUM BRACE LENGTH: 7 FT
FASTENER:
TYPE: DUAL THROUGH-BOLTS
- TOLCO FIG 906
DIAMETER: 1/2"



BRACING MATERIAL: 1" SCH. 40
MAXIMUM BRACE LENGTH: 7 FT
FASTENER:
TYPE: DUAL THROUGH-BOLTS
- TOLCO FIG 906
DIAMETER: 1/2"

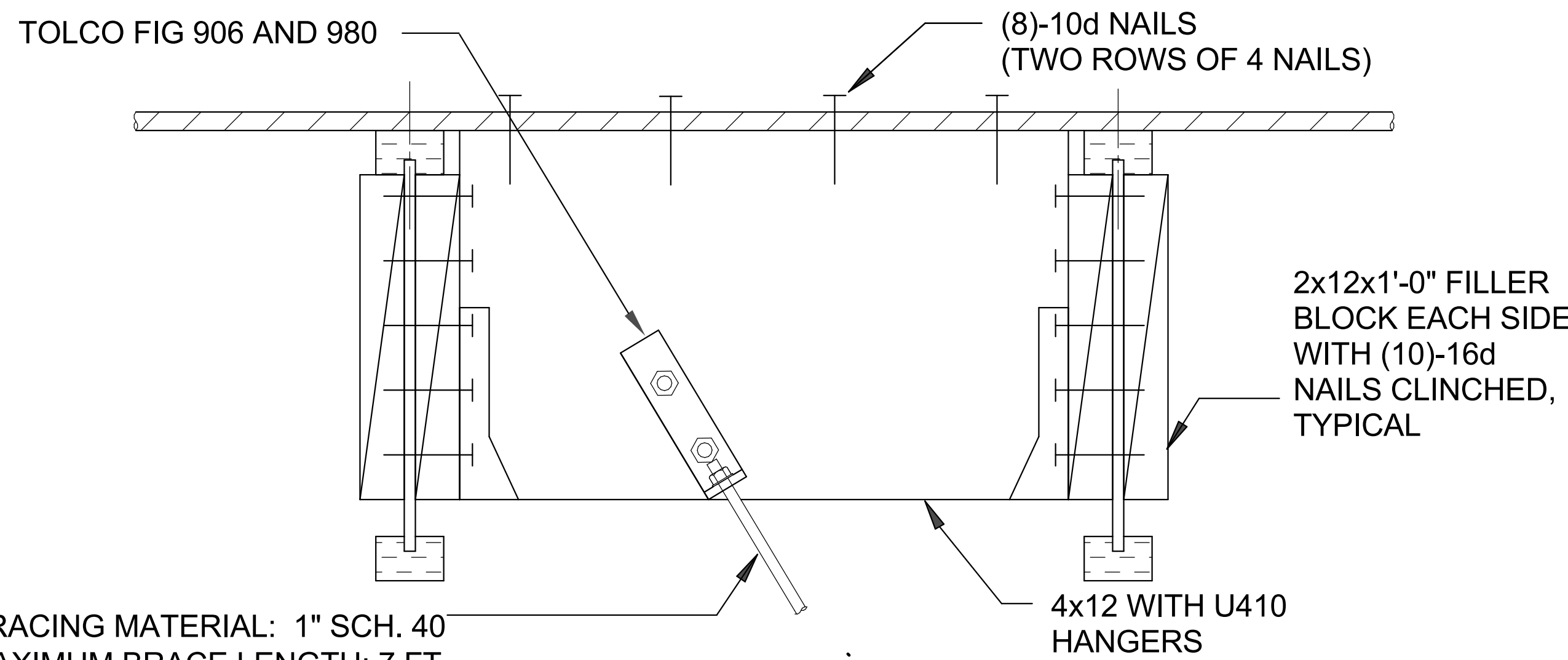


BRACING MATERIAL: 1" SCH. 40
MAXIMUM BRACE LENGTH: 7 FT
FASTENER:
TYPE: DUAL THROUGH-BOLTS
- TOLCO FIG 906
DIAMETER: 1/2"

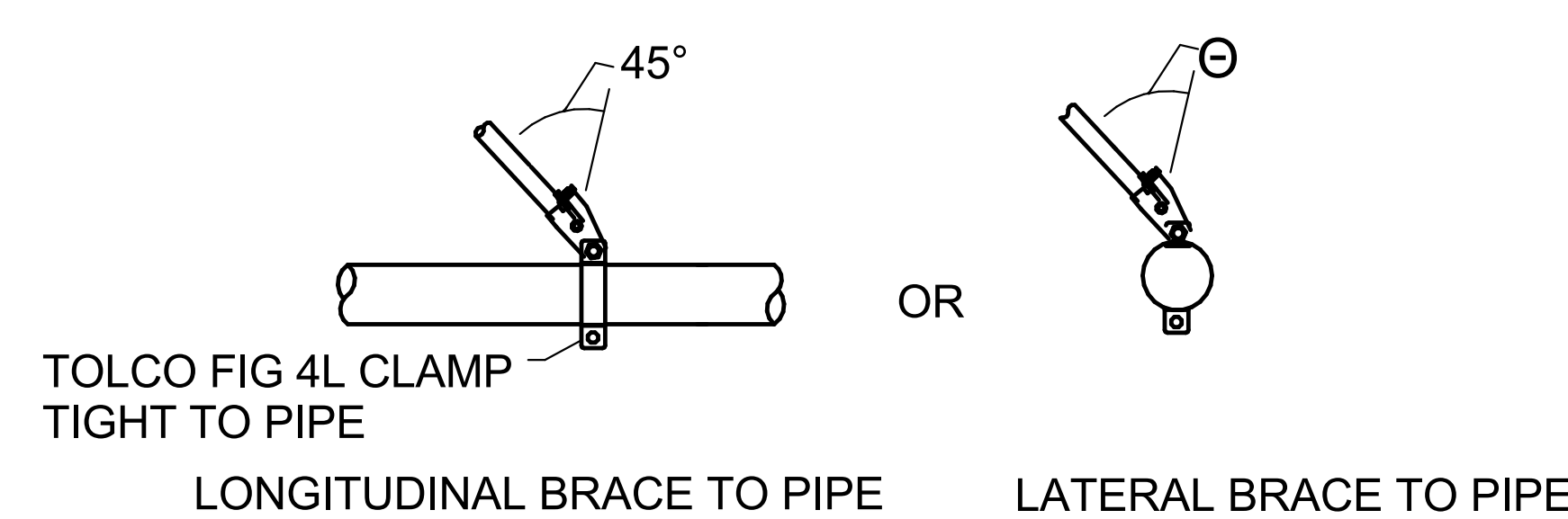


BRACING MATERIAL: 1" SCH. 40
MAXIMUM BRACE LENGTH: 7 FT
FASTENER:
TYPE: DUAL THROUGH-BOLTS
- TOLCO FIG 906
DIAMETER: 1/2"

5 BRACE ATTACHMENT - FORCES PARALLEL TO JOISTS
NO SCALE



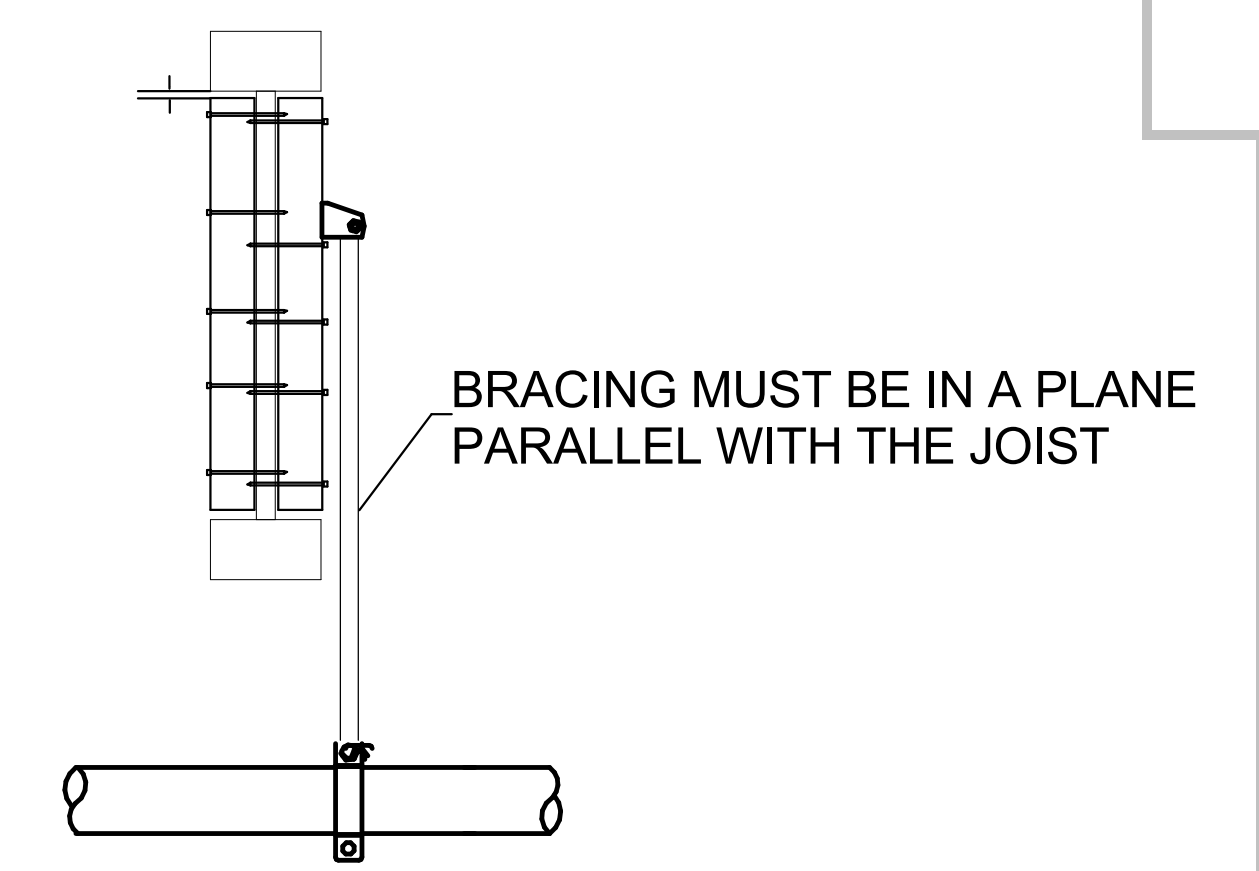
BRACING MATERIAL: 1" SCH. 40
MAXIMUM BRACE LENGTH: 7 FT
FASTENER:
TYPE: DUAL THROUGH-BOLTS
- TOLCO FIG 906
DIAMETER: 1/2"



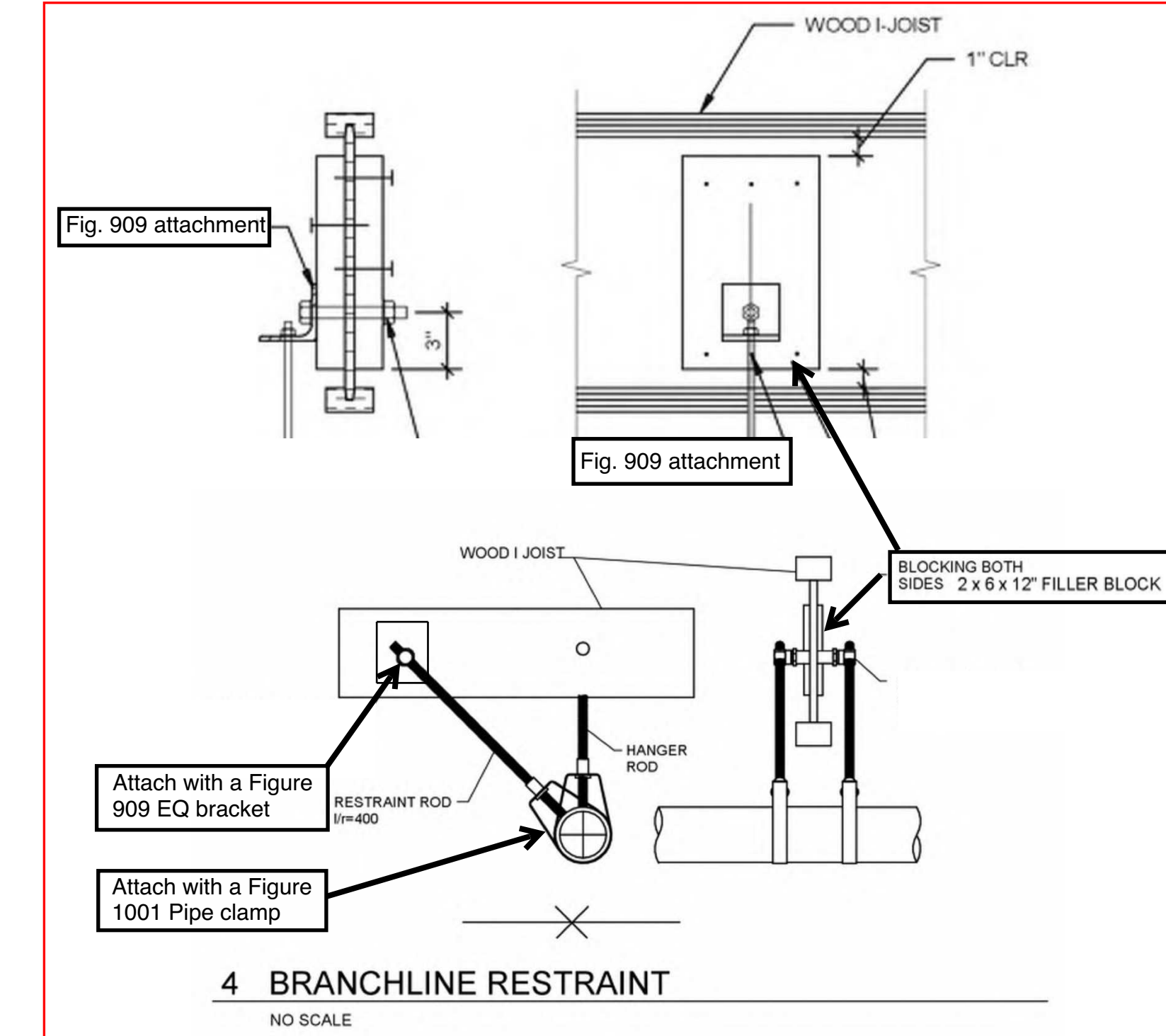
6 BRACE ATTACHMENT - FORCES PERPENDICULAR TO JOISTS
NO SCALE

MAKE ATTACHMENT PER NFPA 13 NEAR THE CENTER OF THE 4X BLOCK. FASTENER MUST BE AT LEAST 7 DIAMETERS FROM THE END OF THE BLOCK AND 4 DIAMETERS FROM ALL OTHER EDGES.

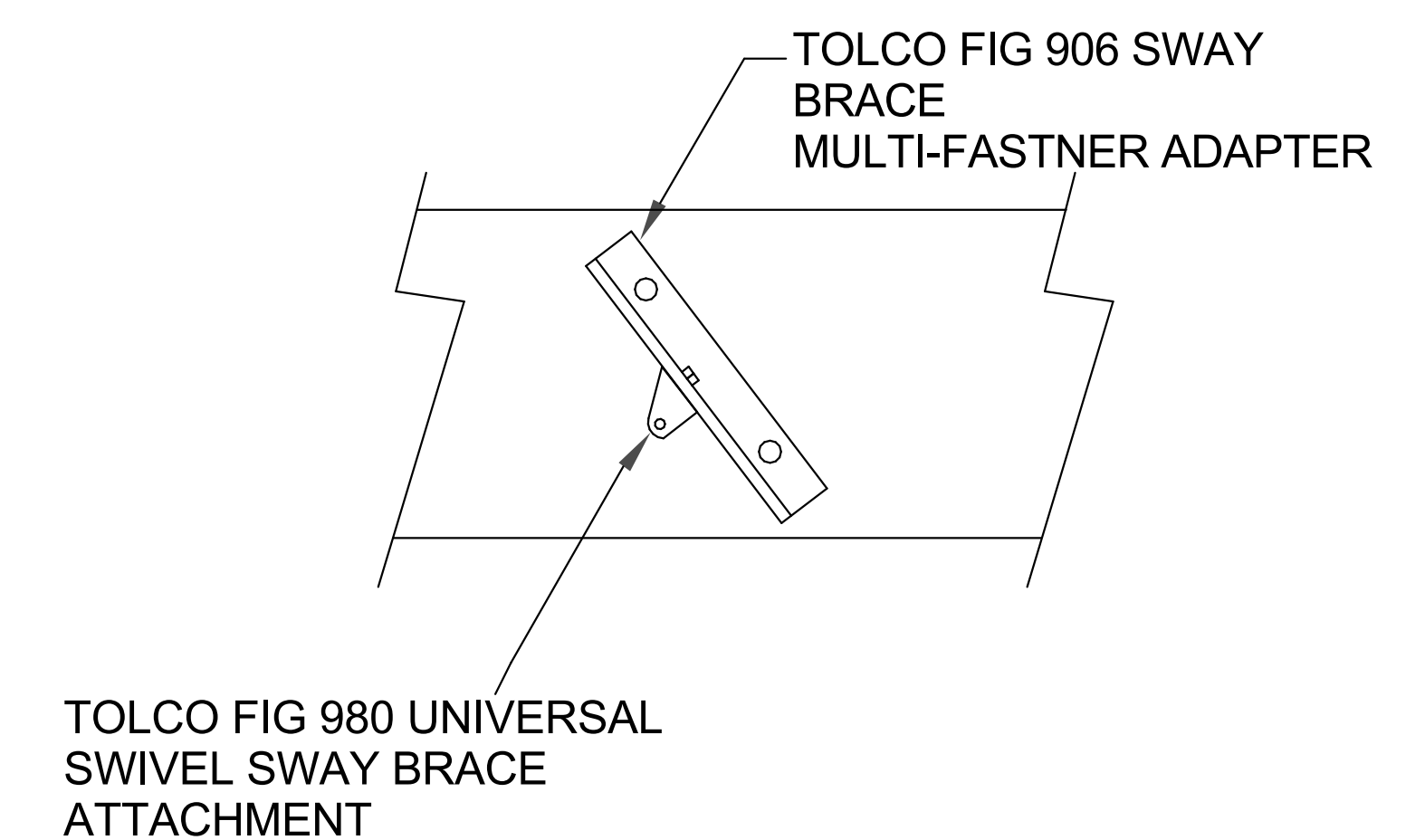
GAP (AT TOP AND BOTTOM), 1/4" MIN, 1/2" MAX.



RFI #143 - 1" PIPE WITH FIG. 909 FOR STRUCTURE ATTACHMENT WITH FIGURE 1001 FOR PIPE ATTACHMENT



4 BRANCHLINE RESTRAINT
NO SCALE



5 BRACE ATTACHMENT - FORCES PERPENDICULAR TO JOISTS
NO SCALE

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D-4002
DVC SAN RAMON
CAMPUS EXPANSION & RENOVATION

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San Ramon, CA 94582

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ISSUE TITLE

INCREMENT 2

ISSUE DATE 08/22/2023

NOLL & TAM JOB NUMBER 21630

REVISIONS

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
| | | |

SHEET TITLE

DETAILS - FIRE PROTECTION

SHEET NUMBER

FP5.03.2

PLUMBING SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

Table of abbreviations including (A) ABANDON IN PLACE, AP ABOVE FINISHED FLOOR, AR ACID-RESISTANT, etc.

General

Table of general plumbing symbols including CONTINUATION, DETAIL NUMBER AND SHEET LOCATION, EQUIPMENT IDENTIFICATION, etc.

Table of piping systems symbols including PUMP, ROOF DRAIN, TEE DOWN ON PIPE, TEE UP ON PIPE, TRAP PRIMER MANIFOLD, etc.

Piping Fittings

Table of piping fittings symbols including ACCESS PANEL, AQUASTAT, AREA DRAIN, etc.

Valves

Table of valve symbols including BACKFLOW PREVENTER, CHECK VALVE, EARTHQUAKE GAS VALVE, etc.

RFI#60 - REQUEST TO SUBMIT UNDERGROUND NATURAL GAS PIPING - PIPE: POLYETHYLENE, GRADE 23, TYPE II, ASTM 1784, ASTM 2513-88B, PE 2406-SD11 PLAIN ENDS, YELLOW, FITTINGS: ASTM D2683, PE 2406, SDR11 POLYETHYLENE SOCKET JOINTS; SOCKET HEAT FUSION IN CONFORMANCE WITH ASTM D3261

GENERAL PLUMBING NOTES

- A. PLUMBING SYSTEM DESIGN, INSTALLATION AND MATERIALS SHALL CONFORM TO THE 2016 CALIFORNIA PLUMBING CODE... B. CONDITIONS SHOW ON THE PLANS RELATIVE TO THE WORK TO BE PERFORMED ARE BASED ON THE BEST INFORMATION AVAILABLE...

GENERAL DEMOLITION NOTES

- A. COORDINATE DEMOLITION, CUTTING, PATCHING, ETC. WITH GENERAL CONTRACTOR AND EXISTING FIELD CONDITIONS... B. SAW CUTTING OF ANY FLOOR, AND CORE DRILLING HOLES LARGER THAN EIGHT INCHES DIAMETER...

SHEET INDEX

Table with columns for SHEET NUMBER, SYMBOLS LIST AND GENERAL NOTES - PLUMBING, and DESCRIPTION.

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ARCHITECTS SEAL

PROJECT 2016-0538 CONTACT INTERFACE ENGINEERING 135 Main Street Suite 400 San Francisco, CA 94105

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ISSUE DATE 08/22/2023

NOLL & TAM JOB NUMBER 21630

REVISIONS

Table with columns for NO., DATE, and DESCRIPTION.

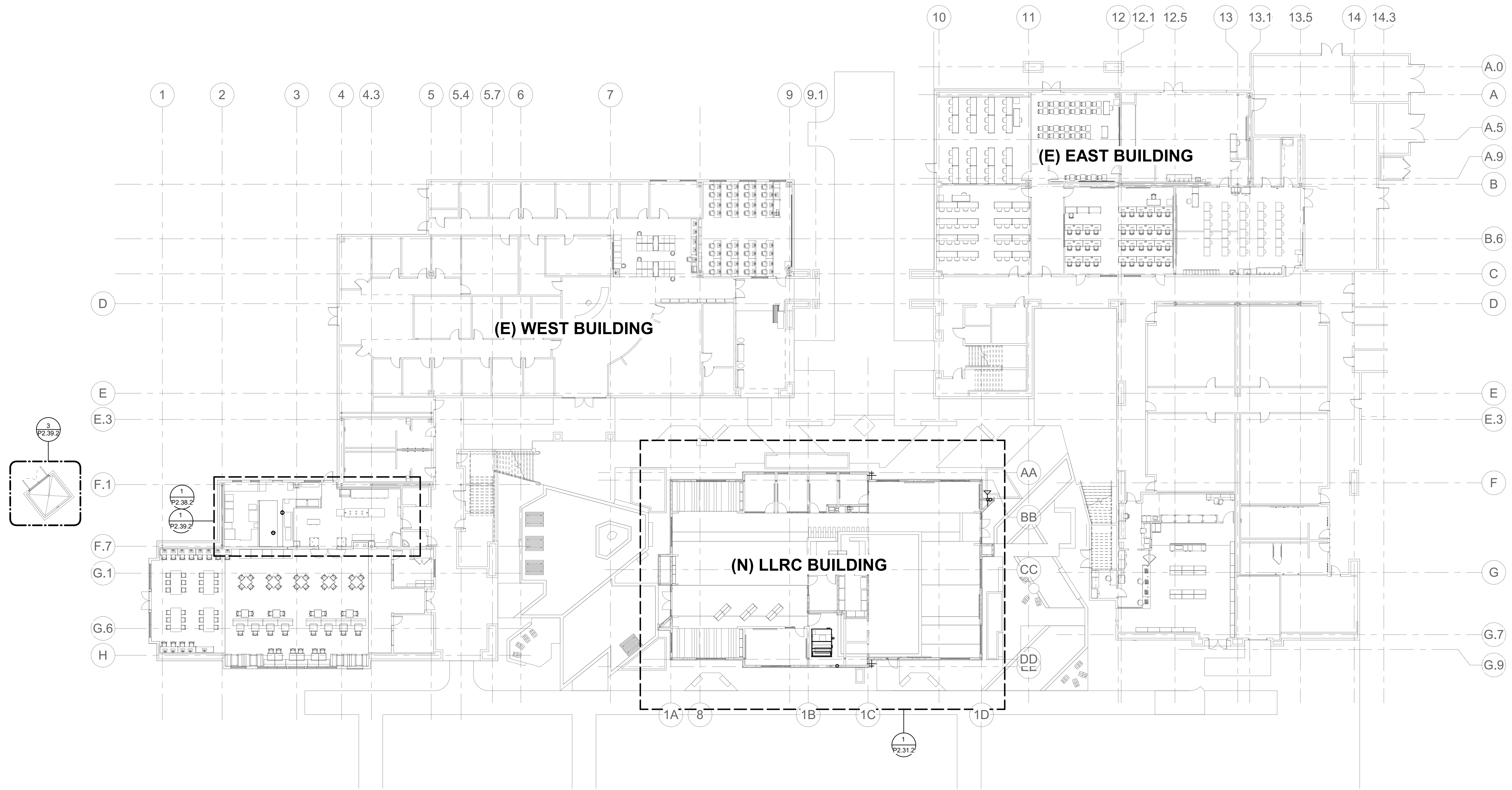
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SYMBOLS LIST AND GENERAL NOTES - PLUMBING

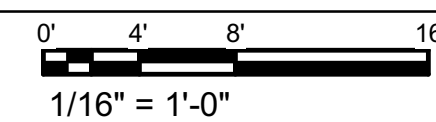
SHEET NUMBER

P0.01.2

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1 LEVEL 1 - PLUMBING PLAN - OVERALL FLOOR PLAN



SHEET KEYNOTES

- MECHANICAL UNIT. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION.
- FLOOR SINK TO SEWER MAIN. REFER TO CIVIL DRAWINGS FOR LOCATION.
- 1" CW LINE. REFER TO CIVIL DRAWINGS FOR EXACT LOCATION.
- 3" SS LINE. REFER TO CIVIL DRAWINGS FOR EXACT LOCATION.
- 3" SD LINE. REFER TO CIVIL DRAWINGS FOR CONTINUATION

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PROJECT 2016-0538
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PROJECT TITLE

**CONTRA COSTA
CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION &
RENOVATION**

1690 Watermill Rd.
San Ramon, CA 94582

RECORD SET:

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ISSUE TITLE

INCREMENT 2

ISSUE DATE 08/22/2023

NOLL & TAM JOB NUMBER 21630

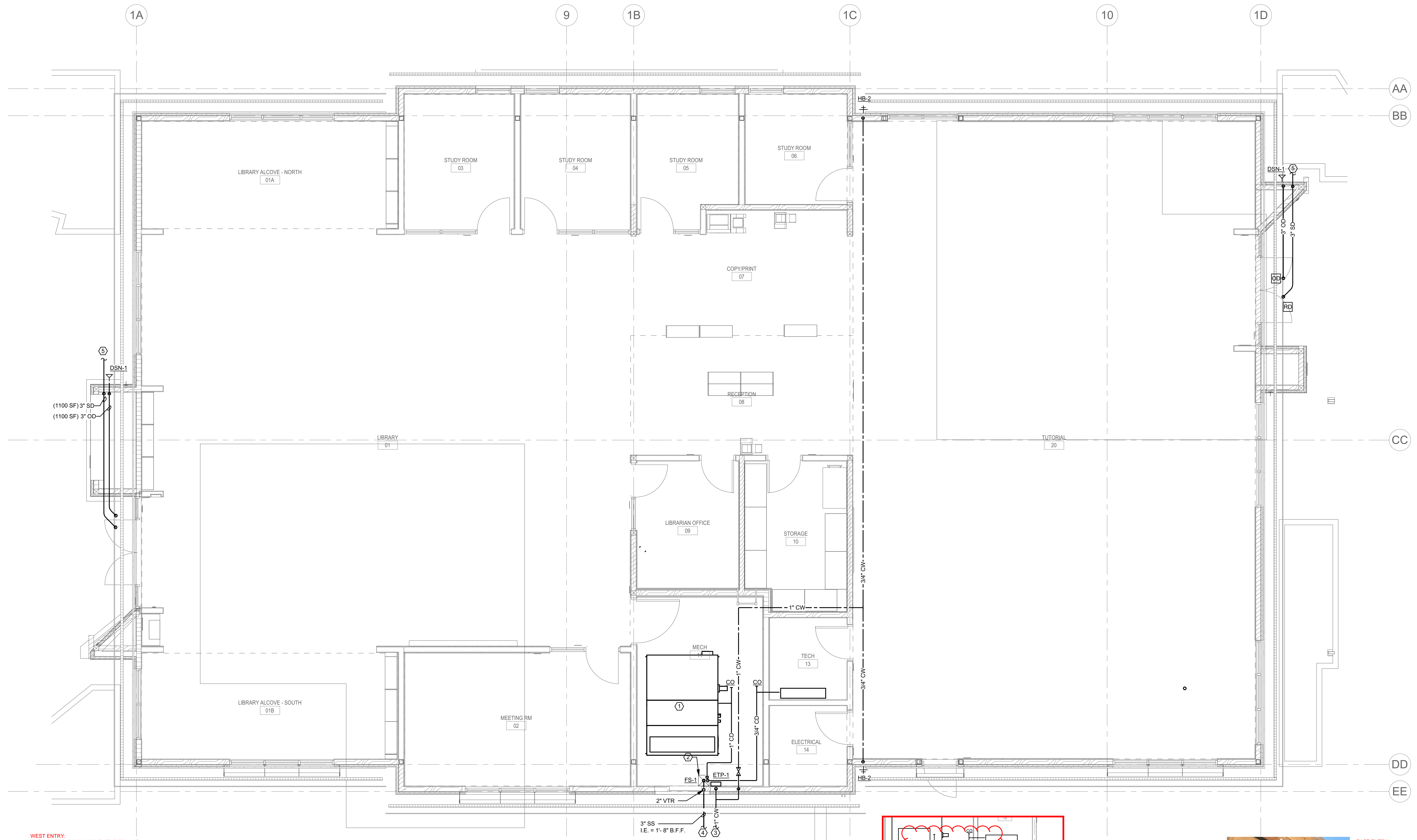
REVISIONS

| NO. | DATE | DESCRIPTION |
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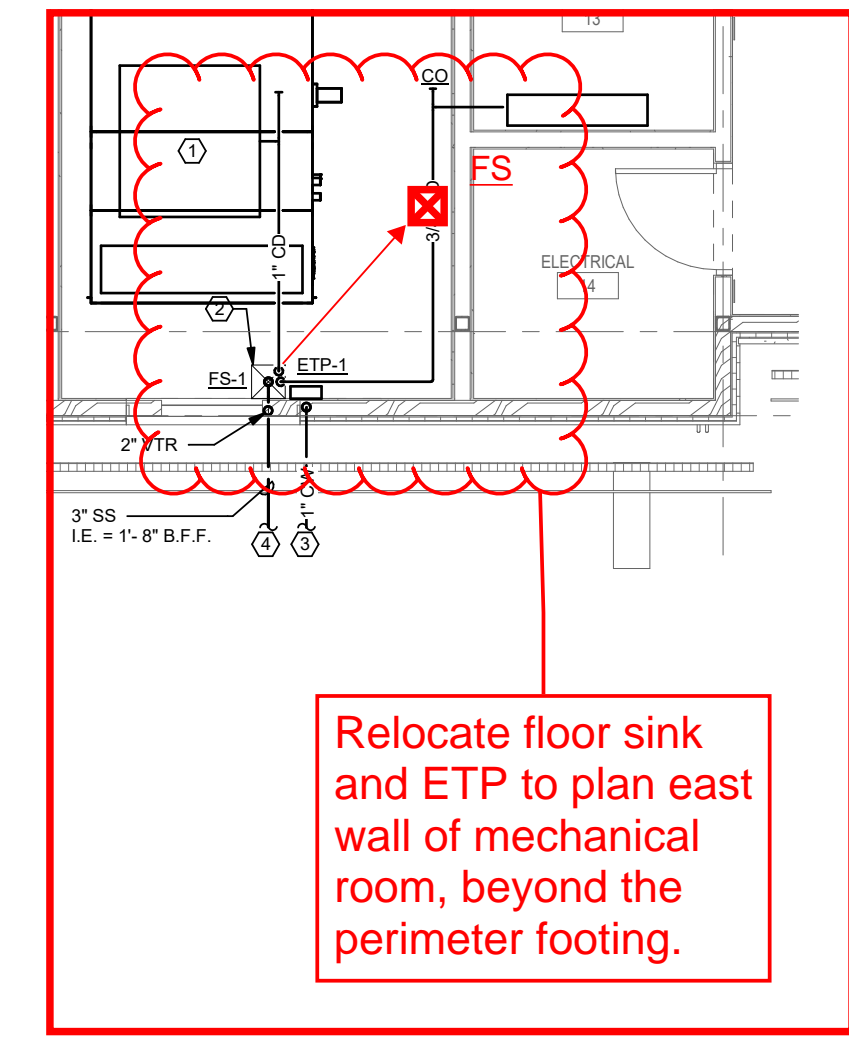
SHEET TITLE
**LIBRARY LEARNING
RESOURCE CENTER
FLOOR PLAN -
PLUMBING**

SHEET NUMBER

P2.31.2



1 PLUMBING PLAN
1/4" = 1'-0"



Relocate floor sink and ETP to plan east wall of mechanical room, beyond the perimeter footing.

RFI#34 - PROPOSED RELOCATION OF FLOOR SINK AND ETP



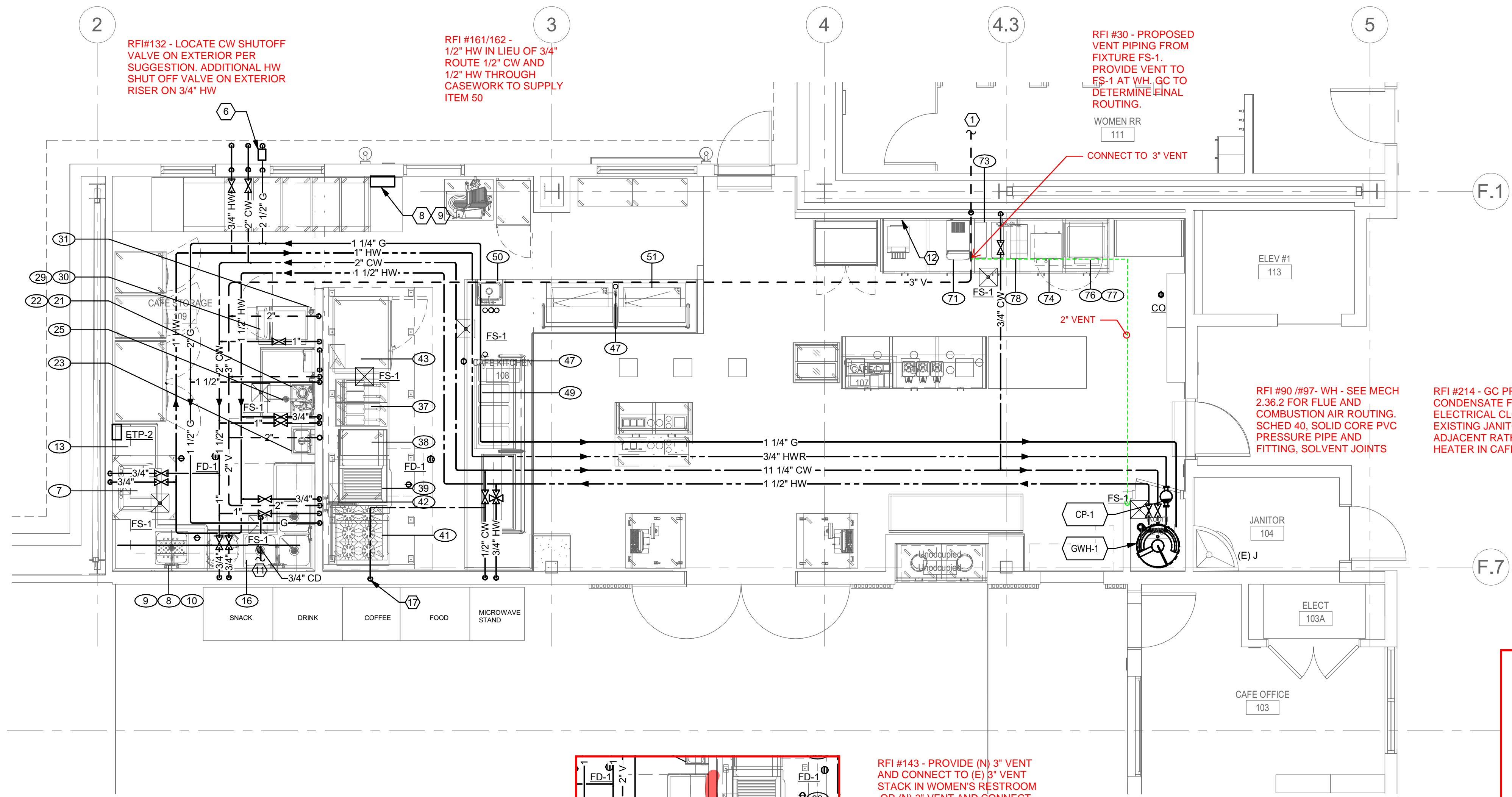
RFI #85 - RWL LOCATION ADJUSTMENT

EAST ENTRY: FROM PHOTO, DRAIN AND OVERFLOW HAS BEEN SHIFTED NORTH BY GC WITH STRAIGHT VERTICAL RUN DOWN

WEST ENTRY: FROM PHOTO, DRAIN AND OVERFLOW HAS BEEN SHIFTED NORTHWARD BY GC WITH SLOPED RUN TO NORTH AND VERTICAL DROP

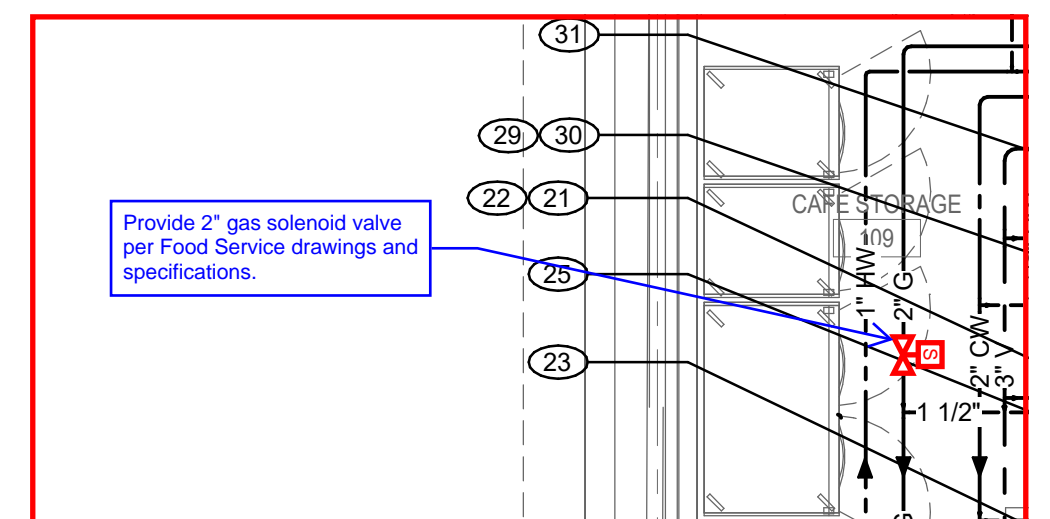


RFI #85 - RWL LOCATION ADJUSTMENT

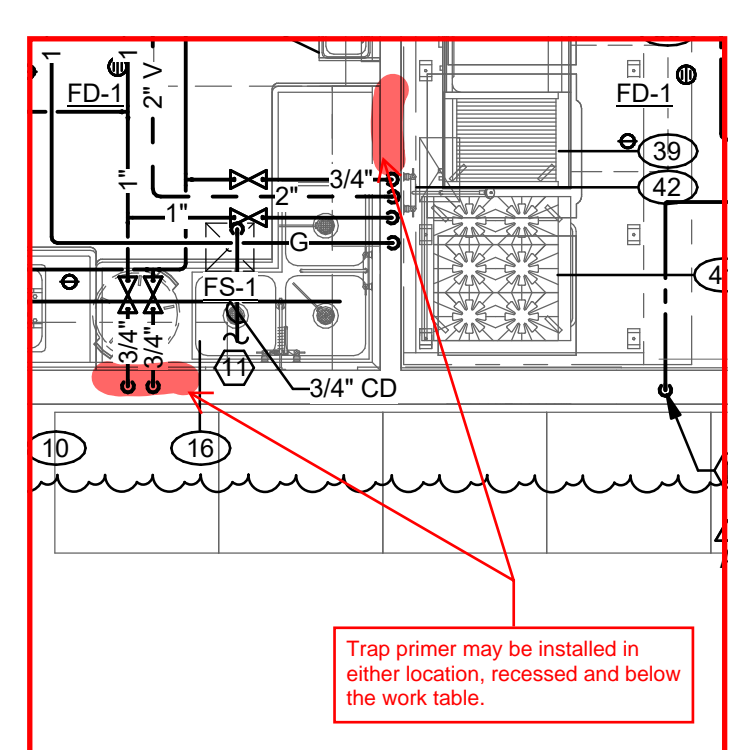


1 PLUMBING PLAN - CAFE

0' 2' 4' 8'
1/4" = 1'-0"

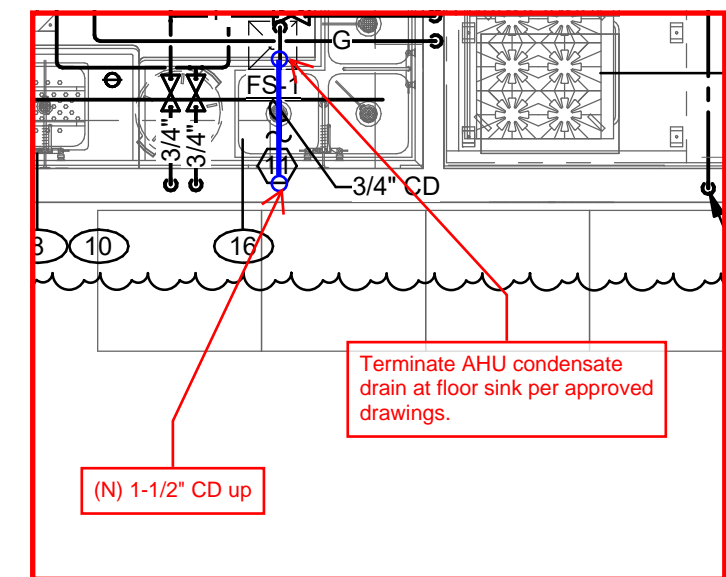


RFI #218 - PROPOSED GAS SOLENOID VALVE INSTALLATION LOCATION

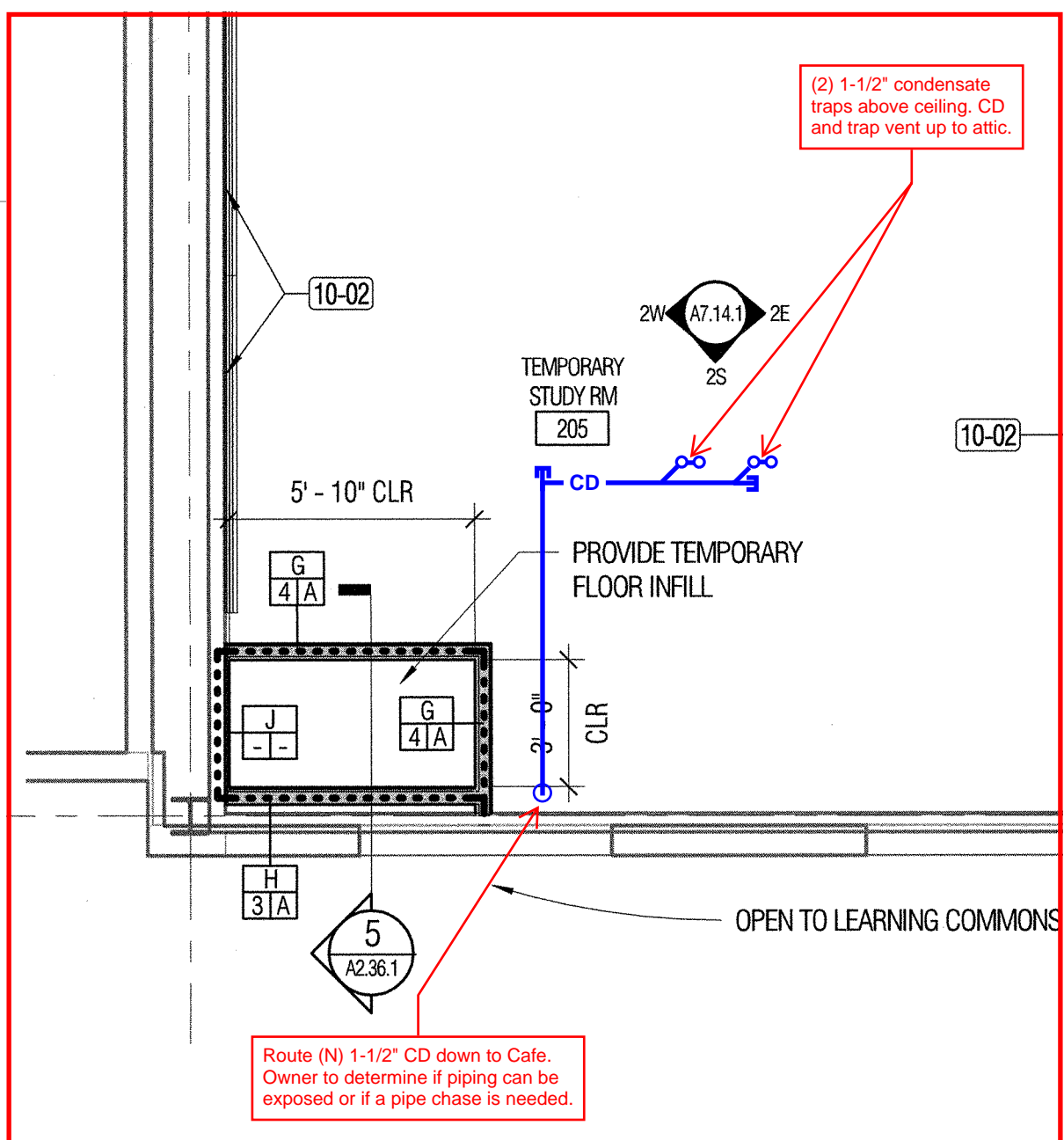


RFI #91

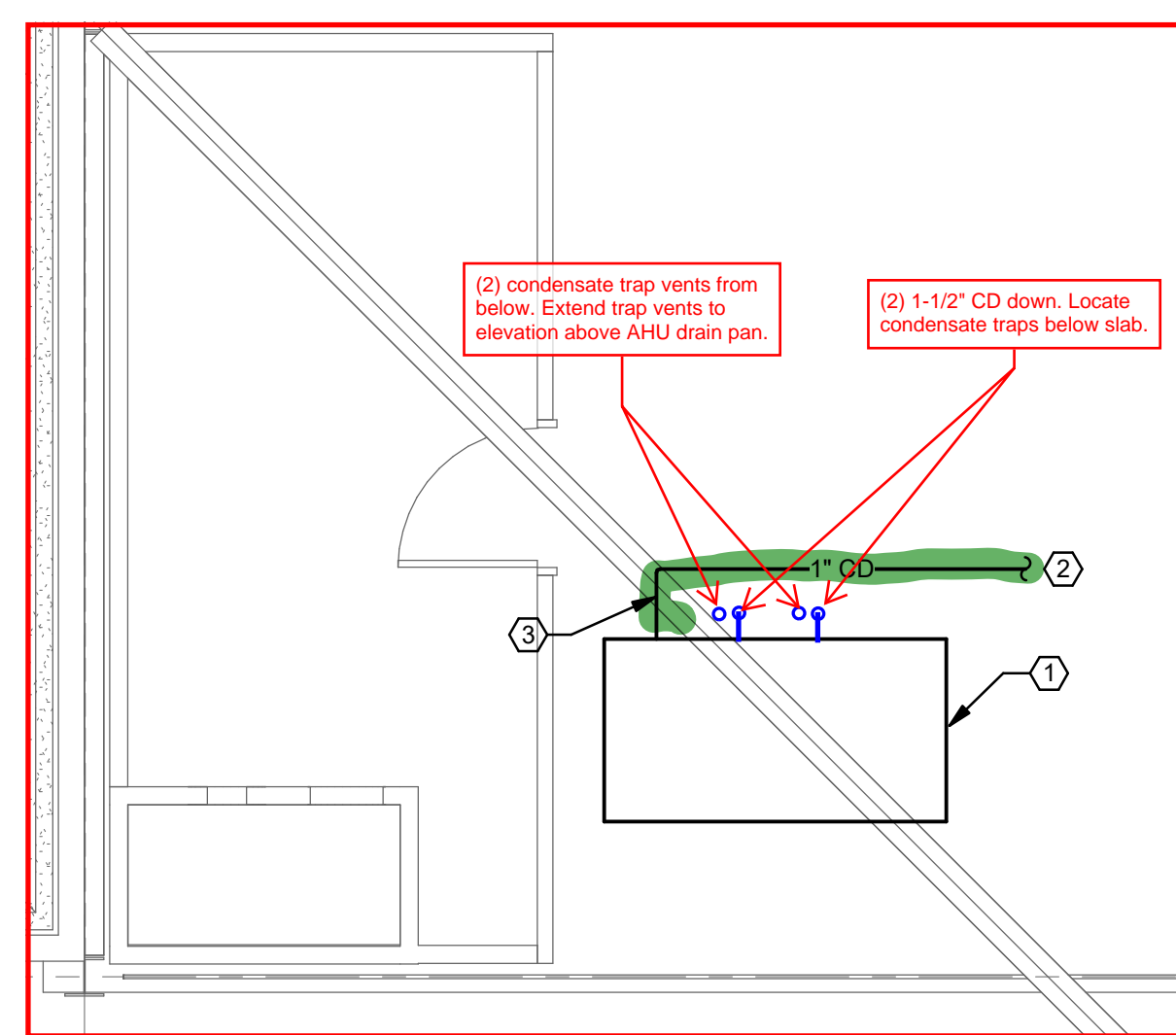
RFI #143 - PROVIDE (N) 3" VENT AND CONNECT TO (E) 8" VENT STACK IN WOMEN'S RESTROOM OR (N) 3" VENT AND CONNECT TO (E) 4" VTR IN ATTIC. GC TO DETERMINE FINAL ROUTING



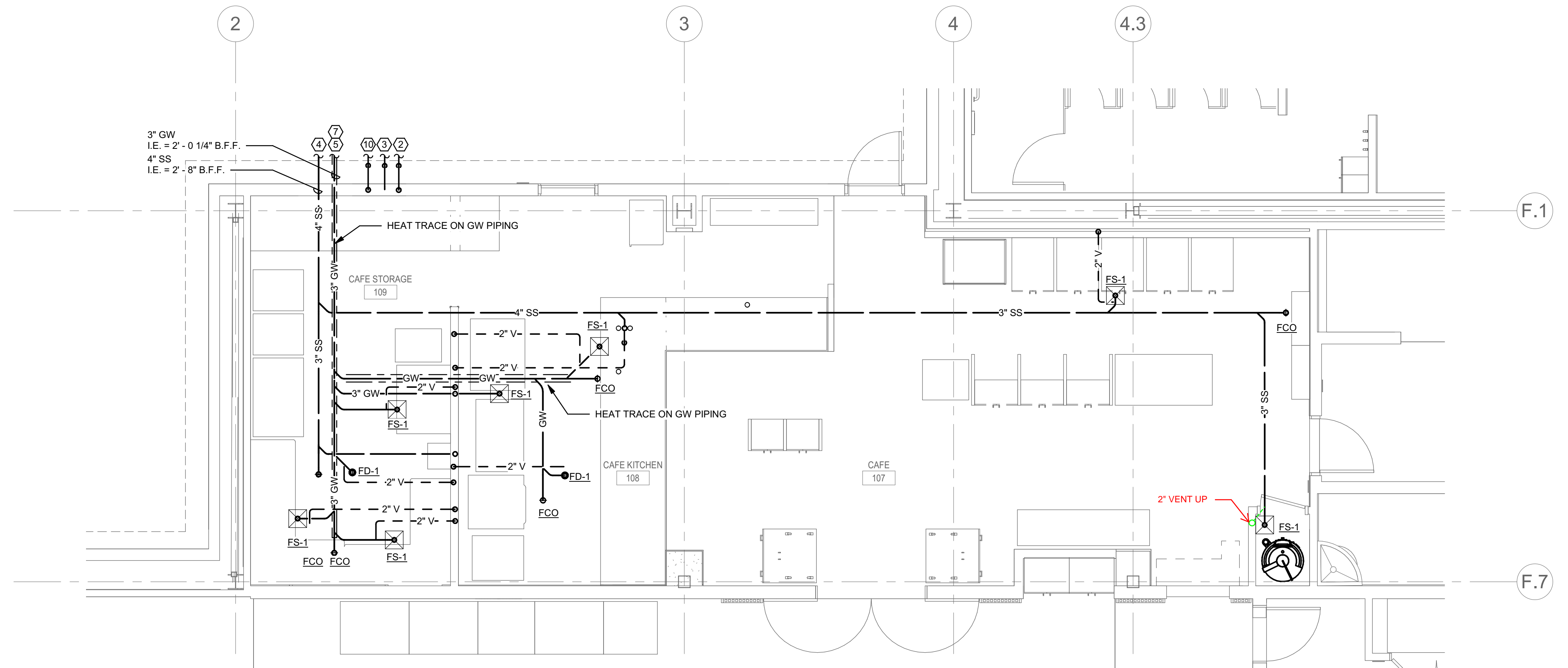
RFI #154 - CD PIPING - ROUTE (N) 1-1/2" CONDENSATE TO FLOOR SINK IN CAFE. PROPOSED ROUTING. GC TO DETERMINE FINAL ROUTING



RFI #173 - NATURAL GAS SEISMIC SHUT OFF VALVE - PACIFIC SEISMIC PRODUCTS OR SIMILAR .

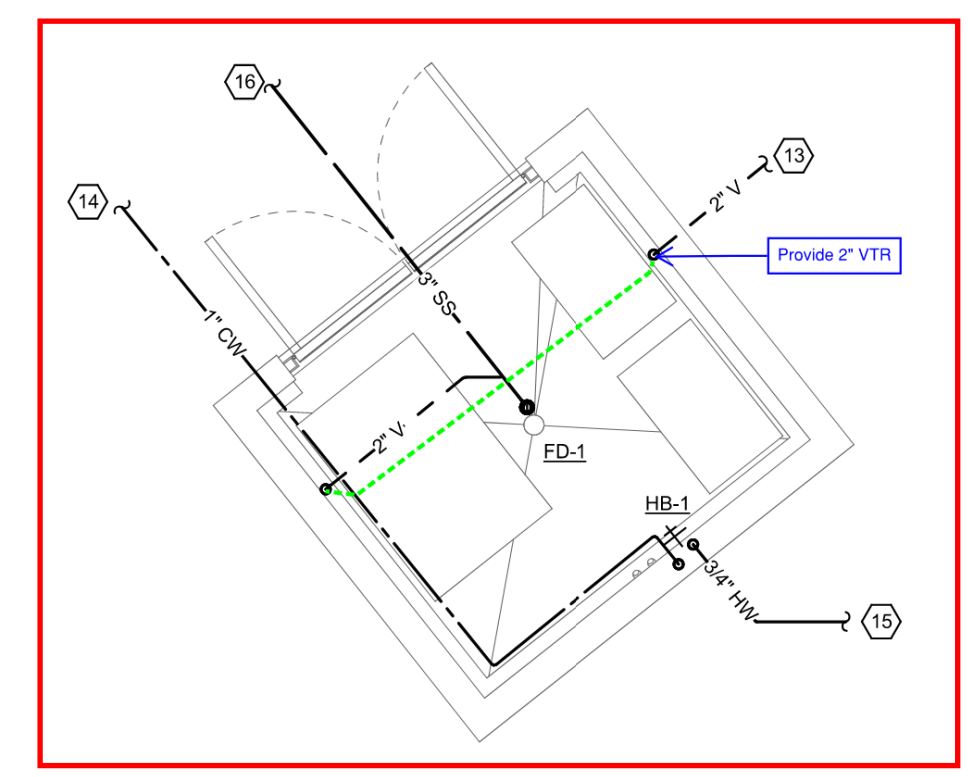


RFI #222 - GC PROPOSE REROUTE OF VENT RISER AND CW AND HW CONNECTION. NEW HOSE BIB. ADD STEEL PIPE GUARD TO PROTECT VENT PIPE

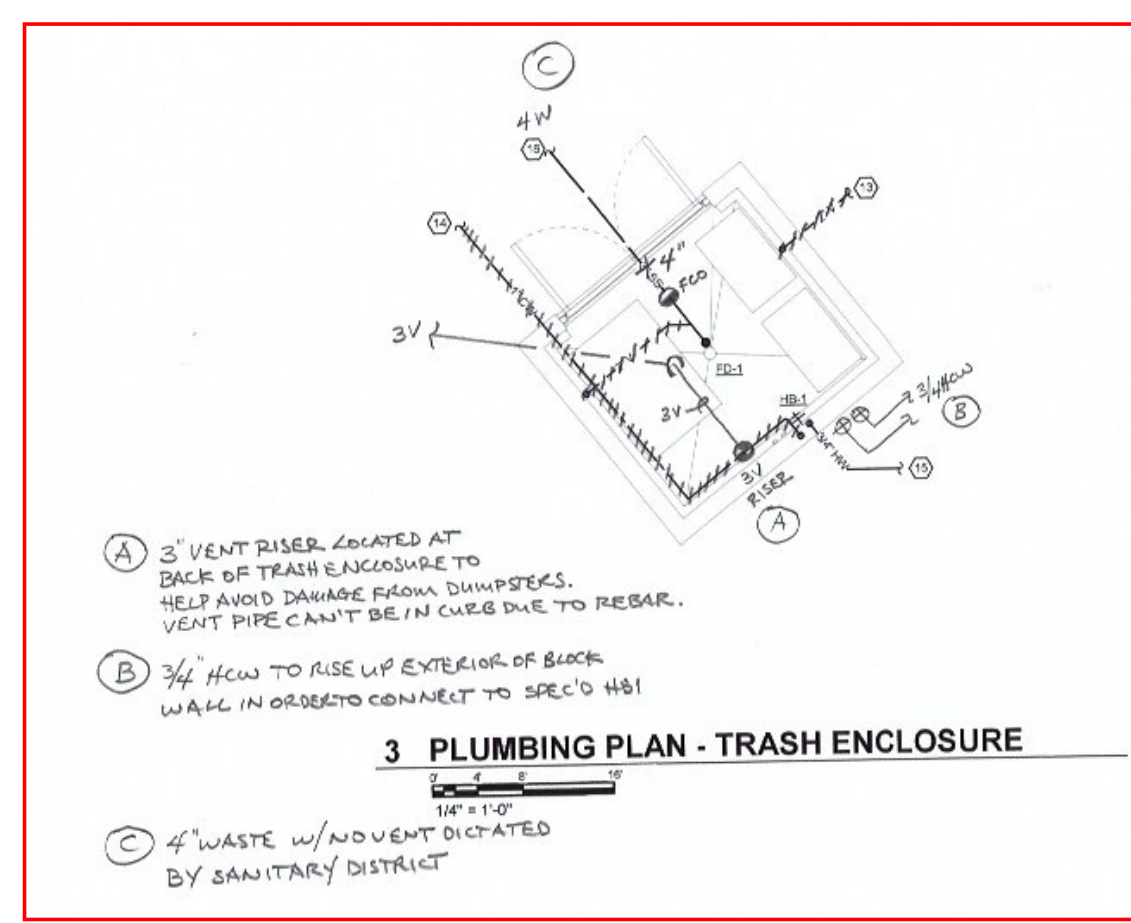


2 UNDERGROUND PLUMBING PLAN - CAFE

0' 4' 8' 16'
1/4" = 1'-0"

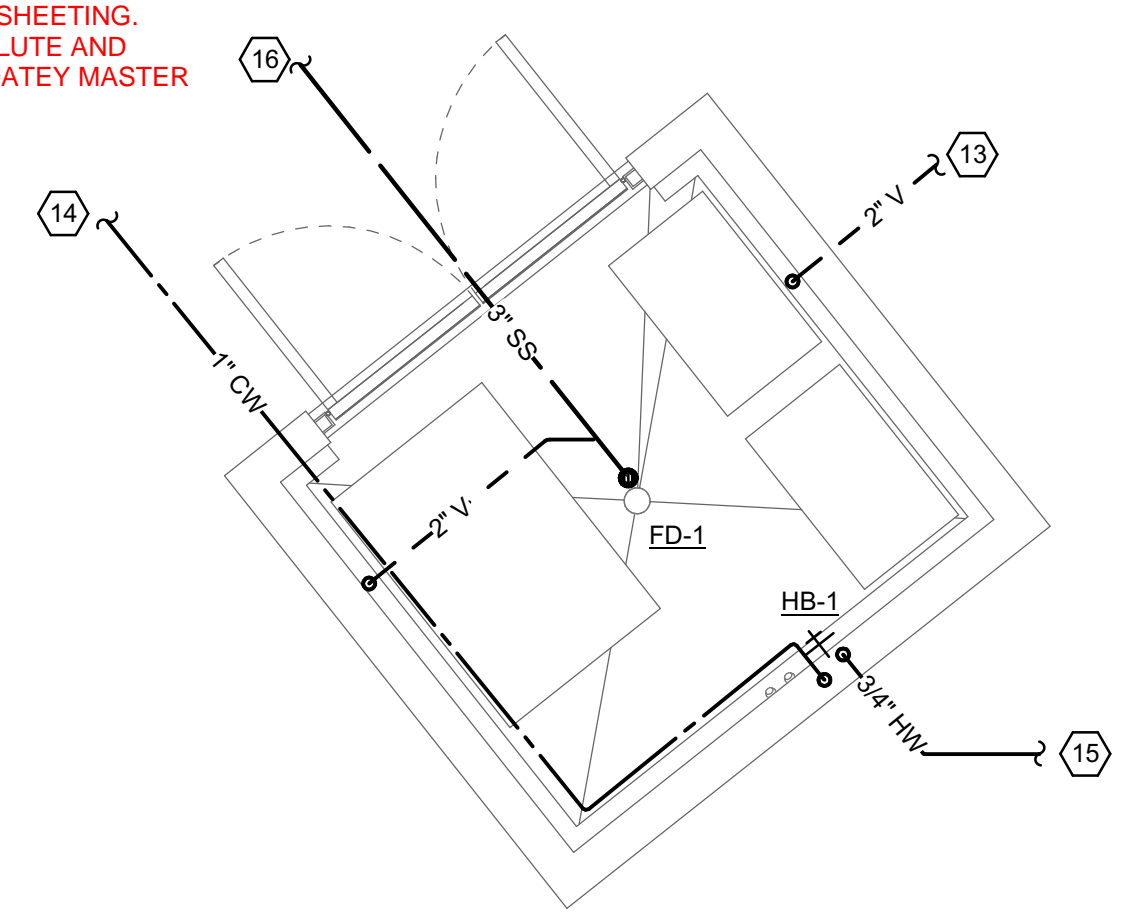


RFI #272 - PROPOSED ROUTE FLOOR DRAIN VENT AND INTERCEPTOR VENT UP AND COMBINE BELOW ROOF DECK. SINGLE VTR PENETRATION THROUGH ROOF SHEETING. CENTER VTR PENETRATION ON HIGHWIDE FLUTE AND PROVIDE FLEXIBLE ROOF FLASHING BOOT, DATEY MASTER FLASH OR SIM.



3 PLUMBING PLAN - TRASH ENCLOSURE

A 3" VENT RISER LOCATED AT BACK OF TRASH ENCLOSURE TO HELP AVOID DAMAGE FROM DOWNSTEAKS. VENT PIPE CAN'T BE IN CONTACT TO REBAR.
B 3/4" HW TO RISE UP EXTENSION OF BACK WALL IN ORDER TO CONNECT TO 2" X 2" HSI
C 4" WASTE W/NO VENT LOCATED BY SANITARY DISTRICT



RFI #229 - FD-1 MIFAB M-500 OF SIM. FOR TRAP PRIMER DEVICE.

GENERAL SHEET NOTES

- A. ANSUL SOLENIOD VALVES LOCATIONS SHALL COORDINATED WITH FOOD SERVICE CONSULTANT.
- B. ALL FLOOR SINKS AND FLOOR DRAINS SHALL BE PROVIDED A TRAP PRIMER CONNECTION.
- C. ALL HANDWASHING AND SERVICE/PREP SINKS SHALL BE PROVIDED WITH THERMOSTATIC MIXING VALVES.

SHEET KEYNOTES

1. CONNECT (N) 3" VENT TO (E) 3" VR IN BATHROOM CHASE.
2. CONNECT (N) 2-1/2" # GAS SERVICE INTO BUILDING.
3. CONNECT (N) 2" CW TO (E) 3" WATER SERVICE SERVING EXISTING BATHROOM. REFER TO CIVIL DRAWINGS FOR CO-ORDINATION.
4. CONNECT (N) 4" SS TO (E) SEWER MAINS. REFER TO CIVIL DRAWINGS FOR CO-ORDINATION.
5. 3" CW TO (N) 750 GALLON PRECAST GREASE INTERCEPTOR (GI-1) WITH HT-1. REFER TO CIVIL DRAWING C4.0 FOR CONTINUATION.
6. (N) 2-1/2" GAS REGULATOR AND SEISMIC SHUT OFF VALVE. CONTRACTOR TO CONTINUE HEAT TRACE ALL THE WAY TO GI-1.
7. PLUMBING CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR LOCATION OF HEAT TRACE PANEL.
8. HEAT TRACE PANEL SHOWN FOR REFERENCE ONLY V.I.F. 3/4" HW TO TRASH ENCLOSURE.
9. 1" CONDENSATE LINE FROM MECHANICAL UNIT IN ATTIC ABOVE. SEE 1/P2.40.2 FOR CONTINUATION.
10. 1/2" CW LINE CAPPED FOR FUTURE FOOD SERVICE EQUIPMENT. REFER TO FOOD SERVICE DRAWINGS FOR EXACT LOCATION.
11. 2" V FROM GREASE INTERCEPTOR (GI-1). REFER TO CIVIL DRAWING C4.0 FOR CONTINUATION.
12. 1" CW TO HOSE BIB. REFER TO CIVIL DRAWING C4.0 FOR CONTINUATION.
13. 1" HW TO HOSE BIB. REFER TO 1/P2.39.2 FOR CONTINUATION.
14. 3" SS REFER TO CIVIL DRAWING C4.0 FOR CONTINUATION.
15. 1/2" CW LINE TO (N) RECESSED WALL BOX FOR COFFEE MACHINE. GUY GRAY MODEL MIB1HAAB OR SIMILAR. INSTALL AT 18" AFF.

APPROVALS

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ARCHITECTS SEAL

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INCREMENT 2

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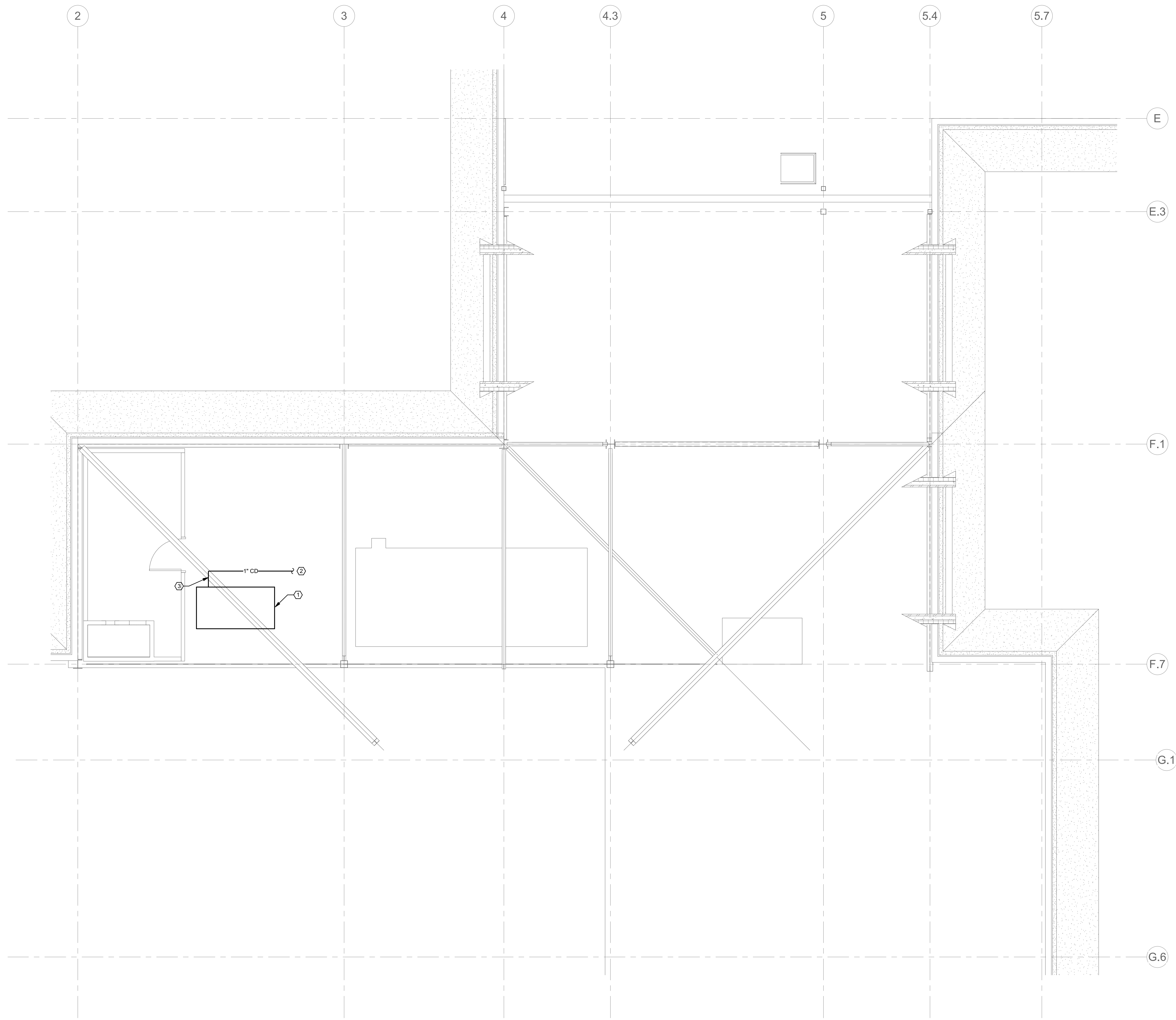
| NO. | DATE | DESCRIPTION |
|-----|----------|-------------|
| 1 | 02/21/20 | CCDA-100 |

SHEET TITLE

**NEW - 1ST FLOOR -
WEST - CAFE &
LEARNING COMMONS
- PLUMBING**

SHEET NUMBER

P2.39.2



SHEET KEYNOTES

- MECHANICAL EQUIPMENT. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION.
- 1" CONDENSATE LINE TO MOP SINK IN JANITOR ROOM. REFER TO 1/P2.39.2 FOR CONTINUATION.
- 1" CONDENSATE TRAP. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND 2/P5.01.2 FOR SPECIFICATION.

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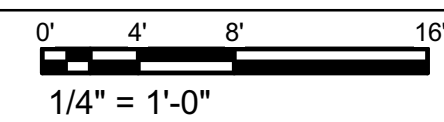
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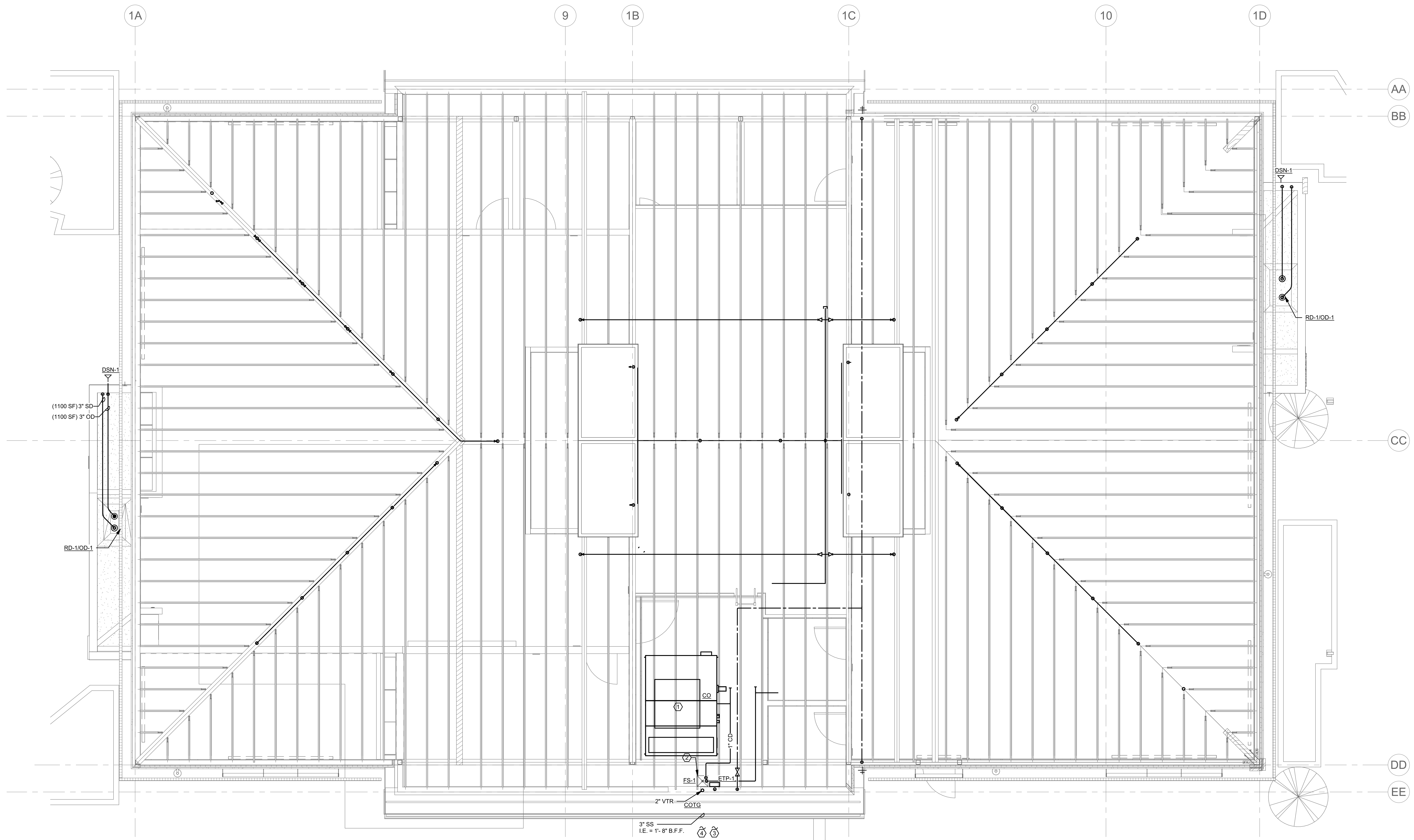
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SHEET TITLE
**ATTIC PLAN - WEST -
PLUMBING**

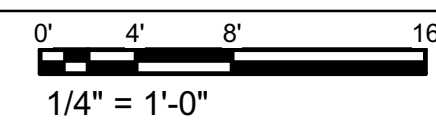
SHEET NUMBER
P2.40.2

1 PARTIAL ATTIC PLAN PLAN - WEST- PLUMBING





1 ROOF PLAN



| WATER SERVICE CALCULATIONS (BASED ON APPENDIX 'A') | | | | [2016 UPC] [2016 CPC] | | | |
|---|--------------------|---------------------------|--|--------------------------|---------------------------|------------|----------------|
| FIXTURE QUANTITY | | | DESCRIPTION | PUBLIC GENERAL USE | PUBLIC HEAVY-USE ASSEMBLY | COLD WATER | (75) HOT WATER |
| PRIVATE INDIVIDUAL DWELLING | PUBLIC GENERAL USE | PUBLIC HEAVY USE ASSEMBLY | | | | | |
| 0 | 0 | 0 | BAR SINK | 2.00 | 0.00 | 0.00 | 0.00 |
| 0 | 0 | 0 | BATHTUB OR COMB. BATH/SHOWER | 4.00 | 0.00 | 0.00 | 0.00 |
| 0 | 0 | 0 | BATHTUB OR COMB. BATH/SHOWER - 3/4" FILL | 10.00 | 0.00 | 0.00 | 0.00 |
| 0 | 0 | 0 | BIDET | 0.00 | 0.00 | 0.00 | 0.00 |
| 0 | 0 | 0 | CLINIC SINK | 8.00 | 0.00 | 0.00 | 0.00 |
| 0 | 0 | 0 | CLOTHESWASHER, DOMESTIC | 4.00 | 0.00 | 0.00 | 0.00 |
| 0 | 0 | 0 | DENTAL UNIT OR CUSPIDOR | 1.00 | 0.00 | 0.00 | 0.00 |
| 0 | 0 | 0 | DISHWASHER, DOMESTIC | 1.50 | 0.00 | 0.00 | 0.00 |
| 0 | 0 | 0 | DRINKING FOUNTAIN OR WATER COOLER | 0.50 | 0.75 | 0.00 | --- |
| 0 | 0 | 0 | HOSE BIBB | 2.50 | 0.00 | 0.00 | --- |
| 0 | 0 | 0 | HOSE BIBB, EACH ADDITIONAL | 1.00 | 0.00 | 0.00 | --- |
| 0 | 0 | 0 | KITCHEN SINK, DOMESTIC | 1.50 | 0.00 | 0.00 | 0.00 |
| 0 | 0 | 0 | LAUNDRY SINK | 1.50 | 0.00 | 0.00 | 0.00 |
| 0 | 0 | 0 | LAVATORY | 1.00 | 1.00 | 0.00 | 0.00 |
| 0 | 0 | 0 | LAWN SPRINKLER, EACH HEAD | 1.00 | 0.00 | 0.00 | --- |
| 0 | 0 | 0 | MOBIL HOME, EACH | 0.00 | 0.00 | 0.00 | 0.00 |
| 0 | 0 | 0 | SERVICE SINK OR MOP BASIN | 3.00 | 0.00 | 0.00 | 0.00 |
| 0 | 0 | 0 | SHOWER, EACH HEAD | 2.00 | 0.00 | 0.00 | 0.00 |
| 0 | 0 | 0 | SHOWER, CONTINUOUS USE | 5.00 | 0.00 | 0.00 | 0.00 |
| 0 | 0 | 0 | URINAL, 1.0 GPF | 4.00 | 5.00 | 0.00 | --- |
| 0 | 0 | 0 | URINAL, GREATER THAN 1.0 GPF | 5.00 | 6.00 | 0.00 | --- |
| 0 | 0 | 0 | URINAL, FLUSH TANK | 2.00 | 3.00 | 0.00 | --- |
| 0 | 0 | 0 | WASHFOUNTAIN, CIRCULAR SPRAY | 4.00 | 0.00 | 0.00 | 0.00 |
| 0 | 0 | 0 | WASHUP SINK, EACH SET OF FAUCETS | 2.00 | 0.00 | 0.00 | 0.00 |
| 0 | 0 | 0 | WATER CLOSET, 1.6 GPF, GRAVITY TANK | 2.50 | 3.50 | 0.00 | --- |
| 0 | 0 | 0 | WATER CLOSET, 1.6 GPF, FLUSHMETER TANK | 2.50 | 3.50 | 0.00 | --- |
| 0 | 0 | 0 | WATER CLOSET, 1.6 GPF, FLUSHMETER VALVE | 5.00 | 8.00 | 0.00 | --- |
| 0 | 0 | 0 | WATER CLOSET, 3.5 GPF, GRAVITY TANK | 5.50 | 7.00 | 0.00 | --- |
| 0 | 0 | 0 | WATER CLOSET, 3.5 GPF, FLUSHMETER VALVE | 8.00 | 10.00 | 0.00 | --- |
| 0 | 0 | 0 | WHIRLPOOL BATH OR COMB. BATH/SHOWER | 0.00 | 0.00 | 0.00 | 0.00 |
| PROPOSED KITCHEN LOAD | | | | | | 44 | 33 |
| TOTAL | | | | | | 44.00 | 33.00 |
| FLOW IN GPM | | | | | | 26 | 22 |
| TOTAL GPM REQUIRED | | | | | | | |
| SERVICE SIZE FROM METER TO BUILDING | | | | | | 1-1/2" | |

| EQUIPMENT SCHEDULE (FOR REFERENCE ONLY) | | | | | | | | | | SEE NOTE ABOVE REGARDING UTILITY LOAD CALCULATIONS. | | | | | | |
|---|-----|--|--------------------------------|----------------------------------|----------------------------|----------------------|---------------------|---------------|------------------------|---|---------------|--------|----------------------------|---|---|----------------------------------|
| ITEM NO | QTY | EQUIPMENT CATEGORY | MANUFACTURER | MODEL NUMBER | EQUIPMENT REMARKS | COLD WATER SIZE (IN) | HOT WATER SIZE (IN) | HOT WATER GPH | DIRECT DRAIN SIZE (IN) | INDIR DRAIN SIZE (IN) | GAS SIZE (IN) | MBTU/H | PLUMBING REMARKS | | | |
| | | | | | | | | | | | | | | 7 | 1 | WAREWASHER, DOOR TYPE, HIGH TEMP |
| 8 | 1 | SOILED DISH TABLE WITH SINK | STAINLESS STEEL FABRICATOR | CUSTOM | | 0.5 | 0.5 | 20 | | 1.5 | | | TO FLOOR SINK | | | |
| 9 | 1 | PRE-RINSE FAUCET, BACKSPASH MOUNT | FISHER | 34436 | | | | | | | | | SEE ITEM #8 | | | |
| 10 | 1 | DRAIN, LEVER HANDLE | FISHER | 22209 | | | | | | | | | SEE ITEM #8 | | | |
| 13 | 1 | CONDENSATE HOOD - TYPE 2 | STREIVOR | REFER TO SHOP DRAWING | | | | | | 1.0 | | | TO FLOOR SINK | | | |
| 16 | 1 | 3 COMPARTMENT POT WASH SINK | ADVANCE TABCO | 84-K2-24D | | (2)0.5 | (2)0.5 | 20 | | (3)1.5 | | | TO FLOOR SINK | | | |
| 21 | 1 | REPRESSURIZATION STORAGE TANK/PUMP | OPTIPURE | OP350/16 | 16 GALLON CAPACITY | 0.5 | | | | | | | CW FROM #22 | | | |
| 22 | 1 | REVERSE OSMOSIS WATER FILTER SYSTEM | OPTIPURE | OP350/16 | RO PROCESSOR | 0.5 | | | | 0.5 | | | TO FLOOR SINK | | | |
| 23 | 1 | HAND SINK, WALL MOUNT | ADVANCE TABCO | 7-PS-66W | | 0.5 | 0.5 | 5 | 1.5 | | | | TO FLOOR SINK | | | |
| 25 | 1 | PREP TABLE WITH SINK | STAINLESS STEEL FABRICATOR | CUSTOM | WITH MARINE EDGE | 0.5 | 0.5 | 20 | | 1.5 | | | TO FLOOR SINK | | | |
| 29 | 1 | ICE MAKER W/O BIN | MANITOWOC | YT0620A | MOUNTED ON TOP OF #30 | 0.375 | | | | 0.5 | | | TO FLOOR SINK; CW FROM #31 | | | |
| 30 | 1 | BIN, ICE | MANITOWOC | D420 | | | | | | 0.75 | | | TO FLOOR SINK | | | |
| 31 | 1 | FILTER SYSTEM, ICEMAKER | MANITOWOC ICE | AR-10000 | | 0.375 | | | | | | | | | | |
| 37 | 2 | FRYER, DEEP FAT, GAS | PITCO | SSH55 - ENERGY STAR / L10-134 | SELF-CLEANING; WITH FILTER | | | | | | 0.75 | 80 | | | | |
| 38 | 1 | GRIDDLE, HEAVY DUTY, GAS | MONTAGUE | DG2424-SAT | WITH AUTO PILOT RELIGHT | | | | | | 0.75 | 60 | | | | |
| 39 | 1 | BROILER, UNDER-FIRED, GAS, COUNTER | MONTAGUE | UFLCS-24R | LEGEND SERIES | | | | | | 0.75 | 76 | | | | |
| 40 | 1 | REFRIGERATOR, SHORTY | TRUE MANUFACTURING CO., INC. | TRCB-48 | | | | | | | | | | | | |
| 41 | 1 | RANGE, HEAVY DUTY, GAS W/ CONVECTION OVEN | MONTAGUE | V136-5 | | | | | | | 1.25 | 220 | | | | |
| 42 | 1 | FILLER, KETTLE & POT | FISHER | 4230 | | | 0.5 | 0.5 | 20 | | | | | | | |
| 43 | 1 | OVEN-STEAMER, COMBINATION, GAS, WITH STAND | ELECTROLUX PROF. NORTH AMERICA | 2E7783 - AOS102GT1 | SELF-CLEANING; MOBILE | 0.75 | | | | 1.25 | 0.5 | 176 | TO FLOOR SINK | | | |
| 47 | 2 | FILL FAUCET | FISHER | 58017 | | 0.5 | | | | | | | | | | |
| 48 | 1 | DROP-IN, HEATED SHELF | HATCO | GRSB-48-I | | | | | | | | | | | | |
| 49 | 1 | DROP-IN, HOT WELLS | RANDELL | 95604-208Z | WITH DRAINS | | | | | 1.0 | | | TO FLOOR SINK | | | |
| 50 | 1 | SINK, HAND WITH SOAP DISPENSER, DROP-IN | ADVANCE TABCO | 7-PS-42 | | 0.5 | 0.5 | 5 | 1.5 | | | | | | | |
| 51 | 2 | DROP-IN, HOT/COLD WELLS | RANDELL | 9580-3A-208Z | | | | | | 1.0 | | | TO FLOOR SINK | | | |
| 71 | 1 | DISPENSER, BEVERAGE/NON-CARBONATED | BUNN-O-MATIC (BY VENDOR) | JDF-2S (NOT IN FSE CONTRACT) | | 0.375 | | | | | | | | | | |
| 73 | 1 | DISPENSER, BREWER, TEA | CURTIS (BY VENDOR) | T8 (NOT IN FSE CONTRACT) | | 0.25 | | | | | | | | | | |
| 74 | 1 | COFFEE MAKER, SATELLITE SYSTEM | CURTIS (BY VENDOR) | TP15T TWIN (NOT IN FSE CONTRACT) | | 0.375 | | | | | | | | | | |
| 76 | 1 | DISPENSER, BEVERAGE/CARBONATED & NON. | LANCER (BY VENDOR) | FS3016 (NOT IN FSE CONTRACT) | WITH 8 DISPENSING HEADS | 0.375 | | | | 0.5 | | | TO FLOOR SINK; CW FROM #78 | | | |
| 77 | 1 | ICE MAKER W/O BIN | MANITOWOC | YT0420A | | 0.375 | | | | 0.5 | | | TO FLOOR SINK; CW FROM #78 | | | |
| 78 | 1 | FILTER SYSTEM | EVERPURE | EV9272-24/EV9612-06/EV9607-04 | | 0.75 | | | | | | | | | | |

FS = FLOOR SINK F-ST = FROM STUB GFCI = GROUND FAULT CONVENIENCE OUTLET AFF = ABOVE FINISHED FLOOR FLR = FLOOR WP = WATER PROOF
 SP = SEE PLAN PED = PEDESTAL SSM = SOLID SURFACE MATERIAL TBV = TO BE VERIFIED S/S = STAINLESS STEEL FA = FROM ABOVE
 ALL DIMENSIONS FOR ROUGH-INS ARE FROM FINISHED FLOOR TO CENTERLINE OF R-I. ALL CONVENIENCE OUTLETS TO BE MINIMUM 20A DEDICATED CIRCUITS
 * UTILITIES SHOWN ARE FOR A QUANTITY OF 1 PER EACH ITEM - MULTIPLY UTILITY NUMBERS BY QUANTITIES SHOWN IN ORDER TO DETERMINE OVERALL UTILITY LOADS REQUIRED.

| GAS CALCULATIONS | | | | |
|---------------------------|-----------------------|--------------|--------------|--------------|
| FIXTURE | DESCRIPTION | NO. OF FIXT. | BTU/HR INPUT | TOTAL BTU/HR |
| KITCHEN EQUIPMENT | | | | |
| FRYER | | 2 | 80,000 | 160,000 |
| GRIDDLE | | 1 | 60,000 | 60,000 |
| BROILER | | 1 | 76,000 | 76,000 |
| RANGE | | 1 | 220,000 | 220,000 |
| OVEN STEAMER | | 1 | 176,000 | 176,000 |
| PLUMBING EQUIPMENT | | | | |
| GWH-1 | DOMESTIC WATER HEATER | 1 | 150,000 | 150,000 |
| TOTAL DEMAND (BTU) | | | | 842,000 |
| TOTAL DEMAND (CFH) | | | | 842 |

SIZING BASED ON 2016 CALIFORNIA PLUMBING CODE
 STD SUPPLY PRESSURE WITH 0.5 IN. W.C. PRESSURE DROP
 200 FEET DEVELOPED LENGTH

| | | |
|--------|------|-----|
| 2-1/2" | 1270 | CFH |
| 2" | 794 | CFH |
| 1 1/2" | 412 | CFH |
| 1 1/4" | 275 | CFH |
| 1" | 134 | CFH |
| 3/4" | 71 | CFH |
| 1/2" | 34 | CFH |

| GREASE INTERCEPTOR SIZING | | | |
|---------------------------|------|------------------|---|
| Item no. | Qty. | Fixture | Total |
| 1 | 3 | Compartment Sink | 9 |
| 4 | 4 | Floor Sinks | 4 |
| 3 | 3 | Floor Drains | 2 |
| | | | Total |
| | | | 31 |
| | | | Min. Grease Interceptor Volume (gal): 1000 |
| | | | CCSD Min. Interceptor Volume (gal): 1000 |

| | |
|----------------|-------|
| Table 1014.3.5 | |
| DFU | Vol. |
| 8 | 500 |
| 21 | 750 |
| 35 | 1000 |
| 90 | 1250 |
| 172 | 1500 |
| 216 | 2000 |
| 307 | 2500 |
| 342 | 3000 |
| 428 | 4000 |
| 576 | 5000 |
| 720 | 7500 |
| 2112 | 10000 |

From CPC 2016

| WATER HEATER SCHEDULE | | | | | | | | | | | | |
|-----------------------|------------------|--------------------|-----------------|------------|-------------------------|-------------|-------|----|------|------------|----------|---|
| SYMBOL | EQUIPMENT TYPE | LOCATION / SERVING | BASIS OF DESIGN | | TANK CAPACITY (GALLONS) | GAS DATA | | | | ELECTRICAL | COMMENTS | |
| | | | MFR | MODEL | | INPUT (MBH) | VOLTS | PH | AMPS | | | KW |
| GWH-1 | GAS WATER HEATER | KITCHETTE/ CAFÉ | A.O. SMITH | BTH-150(A) | 100 | 150 | 120 | 1 | 5 | | | GWH-1 TO BE DIRECT VENTED. REFER TO MECHANICAL DRAWINGS. OPERATING WEIGHT : 1357 LB |

NOTES: WATER HEATERS SHALL BE LOW NOx AND CONFORM TO THE REQUIREMENTS OF BAAQMD REGULATION 9, RULE 6

| EQUIPMENT SCHEDULE | | | | | | | | | |
|--------------------|------------------------|--------------------|-----------------|--------------|----------|------------|----|------|--|
| SYMBOL | EQUIPMENT TYPE | LOCATION / SERVING | BASIS OF DESIGN | | CAPACITY | ELECTRICAL | | | COMMENTS |
| | | | MFR | MODEL | | VOLTS | PH | AMPS | |
| GI-1 | GREASE INTERCEPTOR | OUTSIDE CAFÉ | JENSEN PRECAST | JP1000EPE-G | 1000 GAL | - | - | - | PROVIDE (H-20) TRAFFIC RATED COVER AND EXTENSION AS REQUIRED, AND JENSEN PRECAST MODEL 200 SAMPLE PORT AT OUTLET. INSTALL PER CCCSD STANDARDS. |
| ETP-1 | ELECTRONIC TRAP PRIMER | RESOURCE CENTER | PPP | SMP-500-115V | - | 115 | 1 | - | |
| ETP-2 | ELECTRONIC TRAP PRIMER | CAFÉ | PPP | PTS-8 | - | 120 | 1 | 0.28 | |

NOTES:

| PUMP SCHEDULE | | | | | | | | | | | |
|---------------|------------------|--------------------|-----------------|-------------|-----------------|---------------|------------|----|------|-------|----------|
| SYMBOL | EQUIPMENT TYPE | LOCATION / SERVING | BASIS OF DESIGN | | FLOW RATE (GPM) | HEAD (FT H2O) | ELECTRICAL | | | | COMMENTS |
| | | | MFR | MODEL | | | VOLTS | PH | AMPS | WATTS | |
| CP-1 | CIRCULATING PUMP | KITCHETTE/ CAFÉ | GRUNDFOS | UP 15-16 B5 | 3.4 | 6' | 115 | 1 | 0.74 | 86 | |

NOTES:

| HEAT TRACE SCHEDULE | | | | | | | | | | | |
|---------------------|------------------|--------------|---------------------|-----------------|------------------------------|------------|---------------|-----------|-------|--------------------|-------|
| TAG | MANUFACTURER | MODEL NUMBER | CONTROLLER LOCATION | CONTROLLER TYPE | TEMPERATURE TO MAINTAIN (°F) | ELECTRICAL | | | | BREAKER SIZE (AMP) | NOTES |
| | | | | | | START (A) | OPERATING (A) | LOAD (kW) | V/PH | | |
| HT-1 | PENTAIR/ RAYCHEM | XL TRACE | CAFÉ | C910-485 | 110 | | 8.8 | 2.2 | 208/1 | 30 | 1.2 |

NOTES:
 1. MANUFACTURER TO CONFIRM DESIGN AND LAYOUT OF THE GREASE WASTE HEAT TRACE SYSTEM PRIOR TO INSTALLATION.
 2. COMPLETE INSTALLATION WITH SELF REGULATING HEATING CABLE, RAYCLIC CONNECTION KITS & COMPONENTS, RTD TEMPERATURE SENSOR, CONTROLLER, GLASS TAPE AND ELECTRIC TRACED LABELS
 3. INSTALL PER MANUFACTURER'S GUIDELINES & RECOMMENDATION
 4. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER CONNECTION

| PLUMBING FIXTURE SCHEDULE | | | | | | | | | |
|---------------------------|-------------------------|---|-----------------|---------|-------------|------------|----|------|-------|
| SYMBOL | FIXTURE TYPE | DESCRIPTION | BASIS OF DESIGN | | ACCESSORIES | CONNECTION | | | NOTES |
| | | | MFR | MODEL | | W | V | CW | |
| DSN-1 | DOWNSPOUT NOZZLE | ALL ALUMINUM BODY, DOWNSPOUT GASKET FOR CAST IRON OR PVC INLET WITH POWDER COATED FACE OF WALL FLANGE, OUTLET NOZZLE, AND PERFORATED HINGED FLAPPER. | ZURN | ZF199 | | - | - | - | - |
| HB-1 | HOSE BIB | 3/4" VACUUM BREAKER, WHEEL HANDLE, BRONZE BOX TYPE TWIN TEMP WALL HYDRANT. | JAY R SMITH | 5560QT | | - | - | 3/4" | 3/4" |
| HB-2 | HOSE BIB | 3/4" VACUUM BREAKER, WHEEL HANDLE, BRONZE BOX WALL HYDRANT. | JAY R SMITH | 5518 | | - | - | 3/4" | 3/4" |
| FD-1 | FLOOR DRAIN | CAST IRON BODY WITH FLASHING COLLAR AND NICKEL BRONZE ADJUSTABLE STRAINER | JAY R SMITH | 2050 | | 3" | 2" | - | - |
| FS-1 | FLOOR SINK | 12" SQUARE CAST IRON RECEPTOR WITH A WHITE ACID RESISTANT ENAMEL INTERIOR AND ANTI-SPLASH DOME STRAINER AND 1/2 GRATE. | JAY R SMITH | 320-Y03 | | 3" | 2" | - | - |
| RD-1/OD-1 | ROOF AND OVERFLOW DRAIN | 8-3/8 DIAMETER COMBINATION MAIN ROOF & OVERFLOW DRAIN, DURA-COATED CAST IRON BODIES WITH COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARDS, DOUBLE TOP-SET DECK PLATE AND LOW SILHOUETTE CAST IRON DOMES. | ZURN | Z165 | | - | - | - | - |

NOTES:
 1. SEE ARCHITECTURAL DRAWINGS FOR ALL FIXTURE MOUNTING HEIGHTS AND LOCATIONS.
 2. UNLESS NOTED OTHERWISE ON DRAWINGS

APPROVALS

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ARCHITECTS SEAL

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PROJECT TITLE

CONTRA COSTA
CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION & RENOVATION

1690 Watermill Rd.
 San Ramon, CA 94582

RECORD SET:

THESE DRAWINGS HAVE BEEN PREPARED FROM ADDENDUMS, CCD'S, ASIS AND SELECT RFI'S OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM. ONLY A SELECT FEW AS-BUILTS WERE SUBMITTED.

ISSUE TITLE

INCREMENT 2

ISSUE DATE **08/22/2023**

NOLL & TAM JOB NUMBER **21630**

| NO. | DATE | DESCRIPTION |
|----------|------|-------------|
| 02/21/20 | | CCDA-100 |

SHEET TITLE

SCHEDULES - PLUMBING

SHEET NUMBER

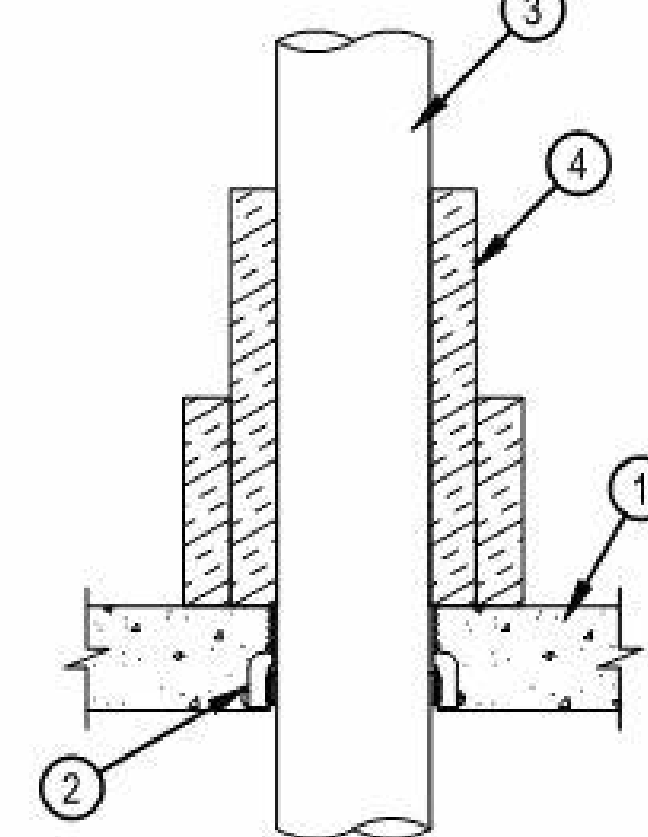
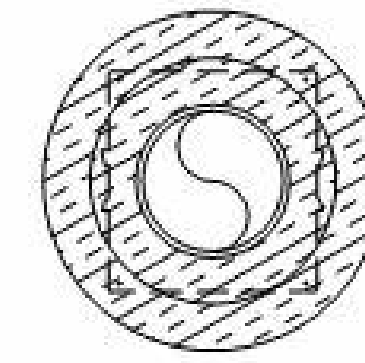
P4.01.2



Classified by Underwriters Laboratories, Inc. to UL 1479 and CANULC-S115

System No. F-A-1106

| ANSI/UL1479 (ASTM E814) | CANULC S115 |
|---|---|
| F Rating - 2 Hr | F Rating - 2 Hr |
| T Rating - 2 Hr | FT Rating - 2 Hr |
| L Rating At Ambient - Less Than 1 CFM/sq ft | FH Rating - 2 Hr |
| L Rating At 400 F — Less Than 1 CFM/sq ft | FTH Rating - 2 Hr |
| W Rating — Class 1 (See Item 2A) | L Rating At Ambient - Less Than 1 CFM/sq ft |
| | L Rating At 400 F — Less Than 1 CFM/sq ft |

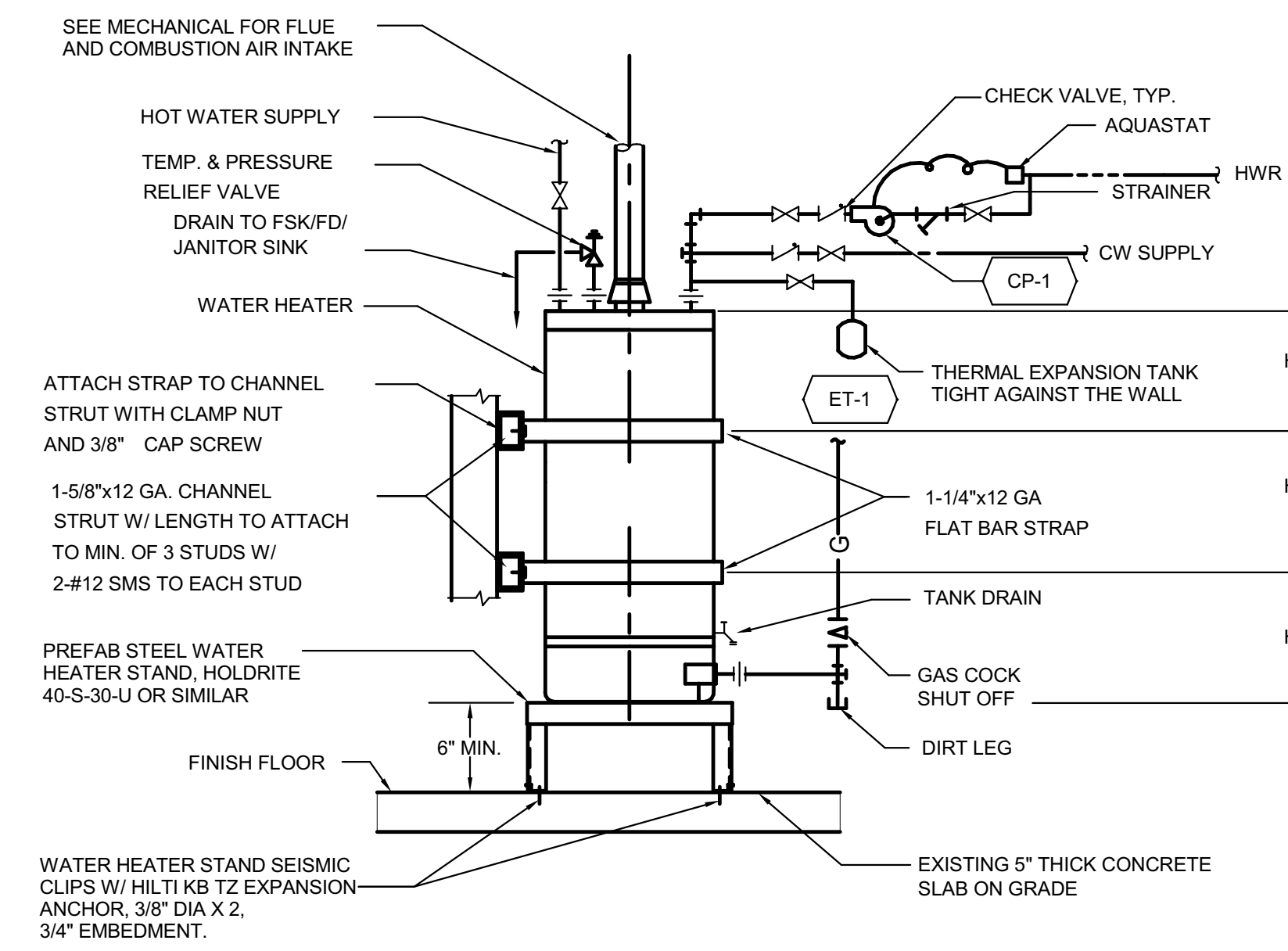


SECTION A-A

1. Floor Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. As an alternate, any min 2 hr fire rated D700, D800 or D900 Series Floor-Ceiling Design in the UL Fire Resistance Directory having a min 2-1/2 in. (64 mm) thickness of lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete topping over the steel deck may be used.
2. Firestop Device* — Cast in place firestop device permanently embedded during concrete placement or grouted in concrete floor assembly in accordance with accompanying installation instructions. Device sized to nom diam of penetrant. Device is to be trimmed flush with the top surface of the floor.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 680-P 2", CP 680-P 3", CP 680-P 4", CP 680-P 6" Cast-In Firestop Device, CP 680-PX 2", CP 680-PX 3"
- 2A. Firestop Device* — Water Barrier Module — (Optional, Not Shown) - Used in combination with the CP 680-P(X) device to achieve a W Rating. Module is threaded onto top of device. W Rating applies only when water barrier module is used and pipe is installed from bottom of device.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — Water Barrier Module

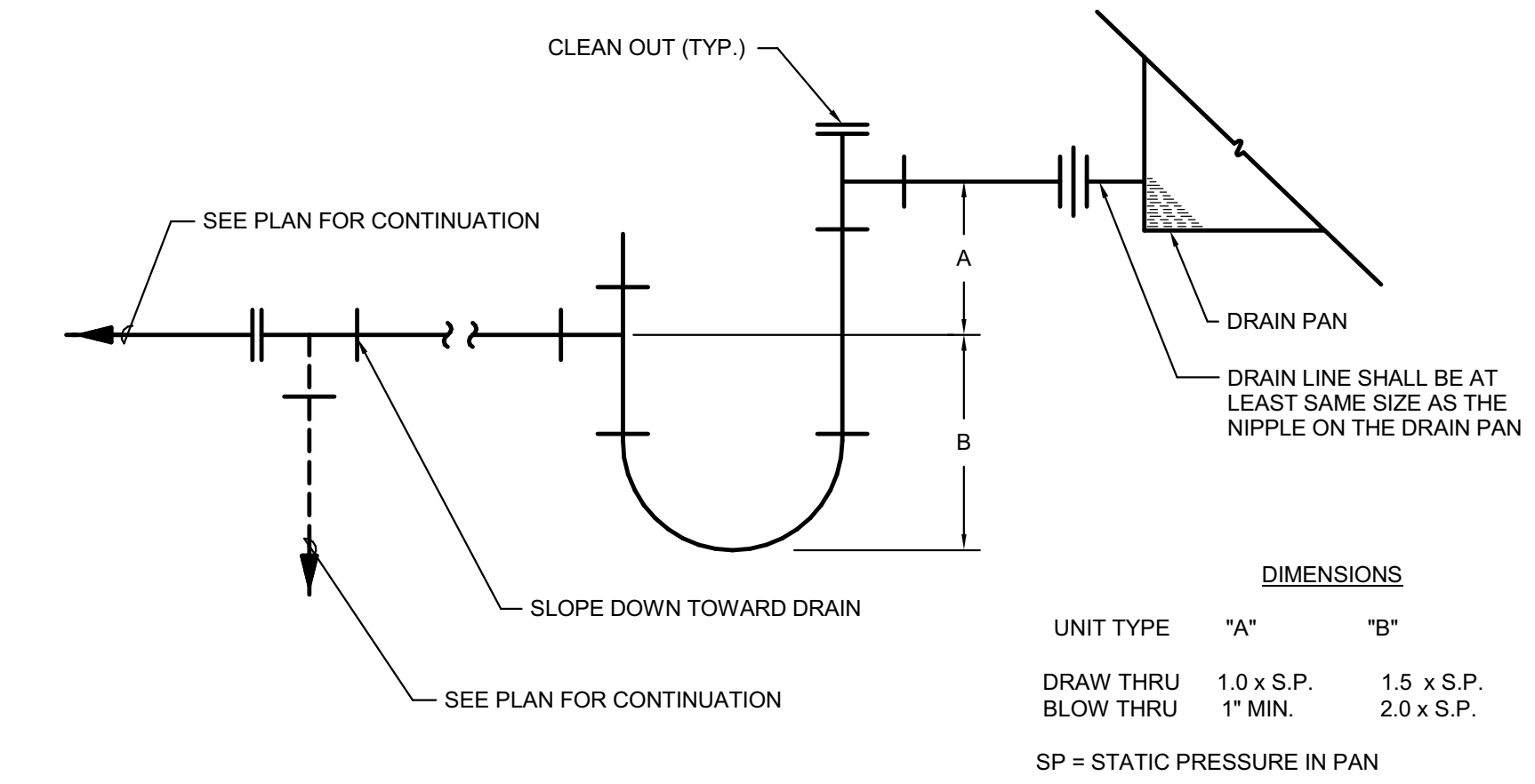
System No. F-A-1106

3. Through-Penetrant* — One metallic pipe installed concentrically or eccentrically within opening. Penetrant to be rigidly supported on both sides of floor assembly. The following types and sizes of penetrants may be used:
 - A. Steel Pipe — Nom 6 in. (152 mm) diam (or smaller), Schedule 40 (or heavier) steel pipe.
 - B. Iron Pipe — Nom 6 in. (152 mm) diam (or smaller) cast or ductile iron pipe.
 - C. Iron Pipe — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or nom 6 in. (152 mm) diam (or smaller) rigid steel conduit.
 4. Duct Wrap Material* — Encapsulated duct wrap tightly wrapped around penetrant to extend 24 in. (610 mm) above the floor for penetrants of nom 4 in. (102 mm) diam or smaller, and 36 in. (914 mm) above floor for penetrants greater than a nom 4 in. (102 mm) diam. An additional layer of encapsulated duct wrap tightly wrapped around the first layer of duct wrap to extend 12 in. (305 mm) (914 mm) above floor. All longitudinal seams of both layers of duct wrap and joints between layers of duct wrap are sealed with foil tape. One of the following types and thicknesses of duct wrap material shall be used.
 - A. Nom 2 in. (51 mm) or 1-1/2 in. (38 mm) thick encapsulated duct wrap.
UNIFRAX I L L C — FyreWrap 2.0 Duct Insulation or FyreWrap 1.5 Duct Insulation
 - B. Nom 1-1/2 in. (38 mm) thick encapsulated duct wrap.
THERMAL CERAMICS INC — FireMaster FastWrap XL Duct Insulation
- * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



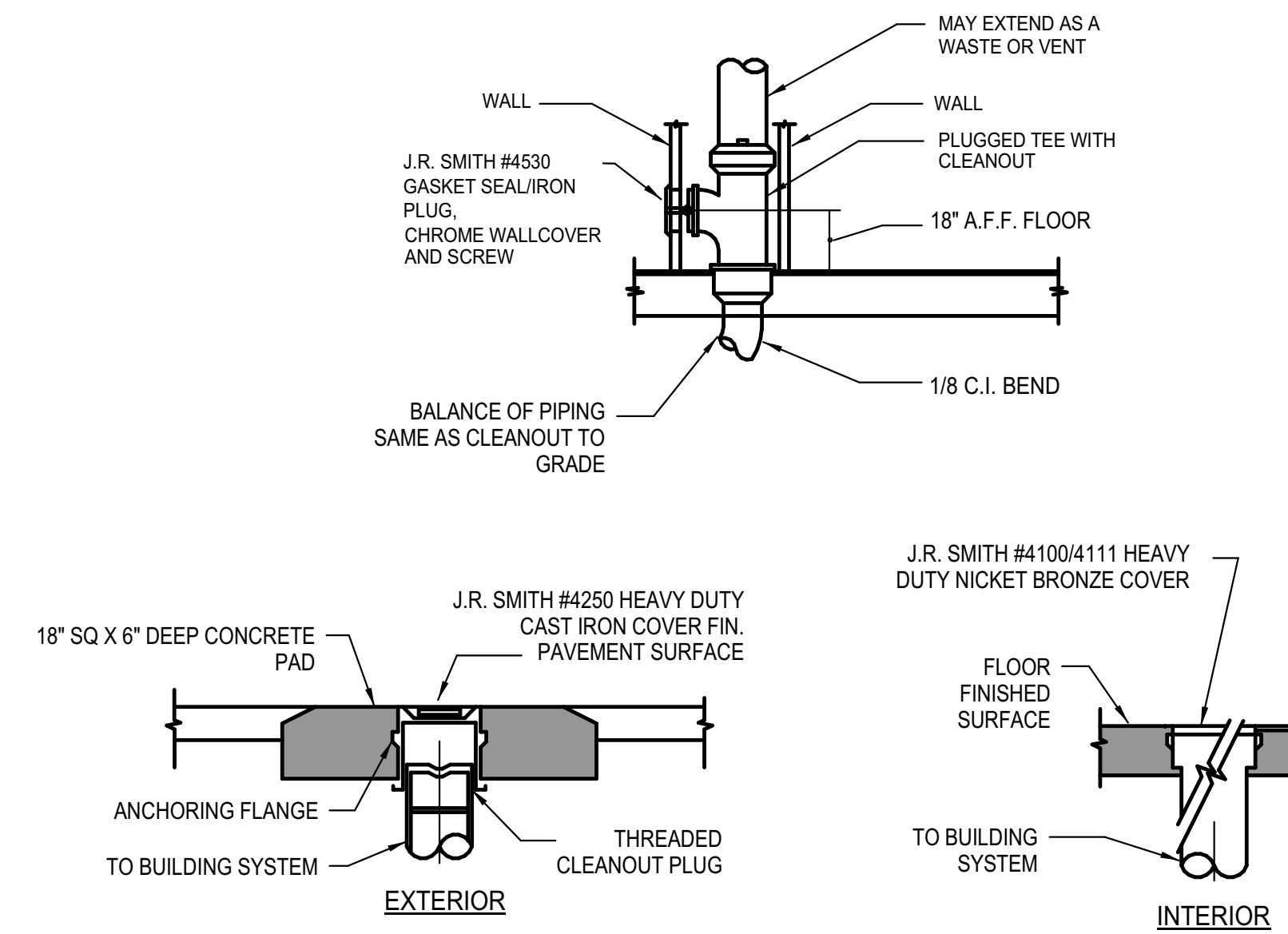
1 GAS WATER HEATER DETAIL

NO SCALE



2 CONDENSATE TRAP

NO SCALE



3 CLEANOUT DETAIL

NO SCALE

APPROVALS

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ISSUE TITLE

INCREMENT 2

ISSUE DATE 08/22/2023

NOLL & TAM JOB NUMBER 21630

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
| | | |

SHEET TITLE
DETAILS - PLUMBING

SHEET NUMBER

P5.01.2

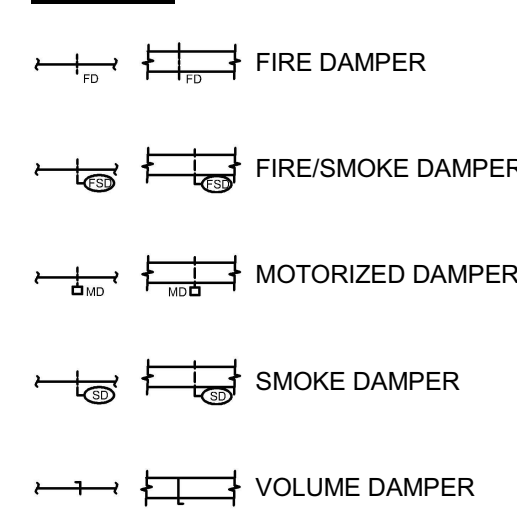
MECHANICAL SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

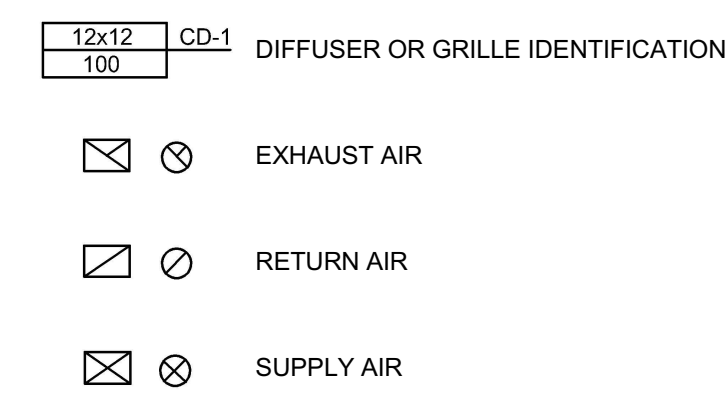
Abbreviations

| | |
|---------|-----------------------------------|
| AFF | ABOVE FINISHED FLOOR |
| AD | ACCESS DOOR |
| AC | AIR CONDITIONED |
| BDD | BACKDRAFT DAMPER |
| BFP | BACKFLOW PREVENTER |
| BFF | BELOW FINISHED FLOOR |
| BHP | BRAKE HORSEPOWER |
| CD | CEILING DIFFUSER |
| CV | CHECK VALVE |
| COP | COEFFICIENT OF PERFORMANCE |
| CW | COLD WATER |
| CD | CONDENSATE DRAIN |
| CU | CONDENSING UNIT |
| CONT. | CONTINUATION |
| DB | DECIBEL |
| DIA | DIAMETER |
| DX | DIRECT EXPANSION |
| D | DROP |
| DB | DRY BULB |
| EFF | EFFICIENT |
| ELECT | ELECTRICAL |
| EER | ENERGY EFFICIENCY RATING |
| EAT | ENTERING AIR TEMPERATURE |
| EWT | ENTERING WATER TEMPERATURE |
| EXH | EXHAUST |
| EF | EXHAUST FAN |
| F | FAHRENHEIT |
| FT | FEET |
| FD | FIRE DAMPER |
| FLA | FULL LOAD AMPS |
| GAL | GALLONS |
| GPH | GALLONS PER HOUR |
| GPM | GALLONS PER MINUTE |
| HD | HEAD |
| HTR | HEATER |
| HTG | HEATING |
| HP | HORSEPOWER |
| HWC | HOT WATER COIL |
| IN | INCHES |
| ID | INSIDE DIAMETER |
| IE | INVERT ELEVATION |
| KW | KILOWATT |
| LH | LATENT HEAT |
| LAT | LEAVING AIR TEMPERATURE |
| MAX | MAXIMUM |
| MIN | MINIMUM |
| MA | MIXED AIR |
| MD | MOTORIZED DAMPER |
| N/A | NOT APPLICABLE |
| NIC | NOT IN CONTRACT |
| NTS | NOT TO SCALE |
| NO. | NUMBER |
| OC | ON CENTER |
| OBD | OPPOSED BLADE DAMPER |
| OA | OUTSIDE AIR |
| OD | OUTSIDE DIAMETER |
| PH | PHASE |
| LBS. | POUNDS |
| PSI | POUNDS PER SQUARE INCH |
| PD | PRESSURE DROP |
| PRV | PRESSURE REDUCING VALVE |
| QTY | QUANTITY |
| RET | RETURN |
| RA | RETURN AIR |
| RPM | REVOLUTIONS PER MINUTE |
| R | RISE |
| SEER | SEASONAL ENERGY EFFICIENCY RATING |
| SH | SENSIBLE HEAT |
| SOV | SHUT OFF VALVE |
| SF | SQUARE FEET |
| SP | STATIC PRESSURE |
| SA | SUPPLY AIR |
| T, TEMP | TEMPERATURE |
| TD | TEMPERATURE DIFFERENCE |
| MBH | THOUSAND BTUS PER HOUR |
| TH | TOTAL HEAT |
| TP | TOTAL PRESSURE |
| V | VOLT |
| WC | WATER COLUMN |
| W | WATT |
| WB | WET BULB |
| WI | WITH |

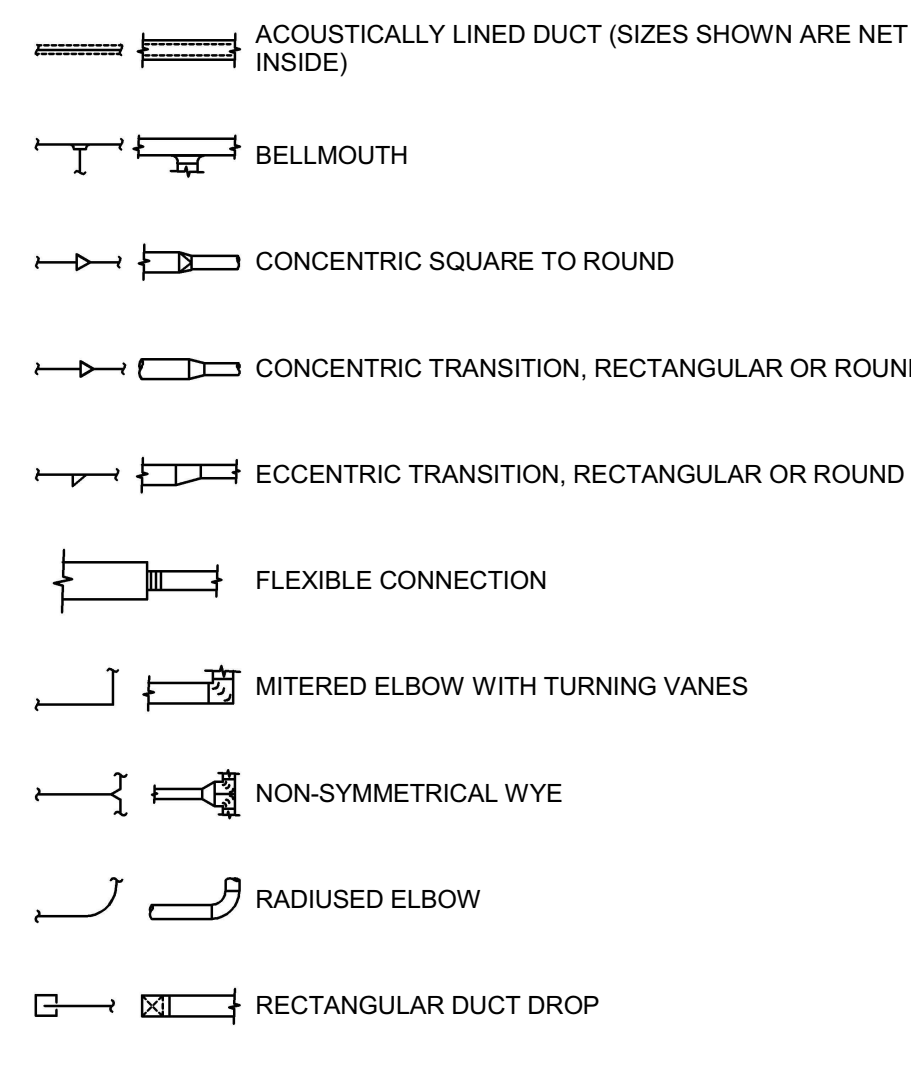
Dampers



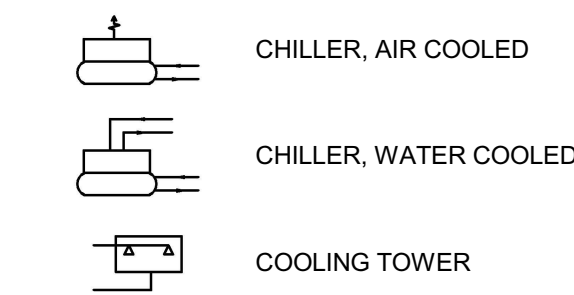
Diffusers and Grilles



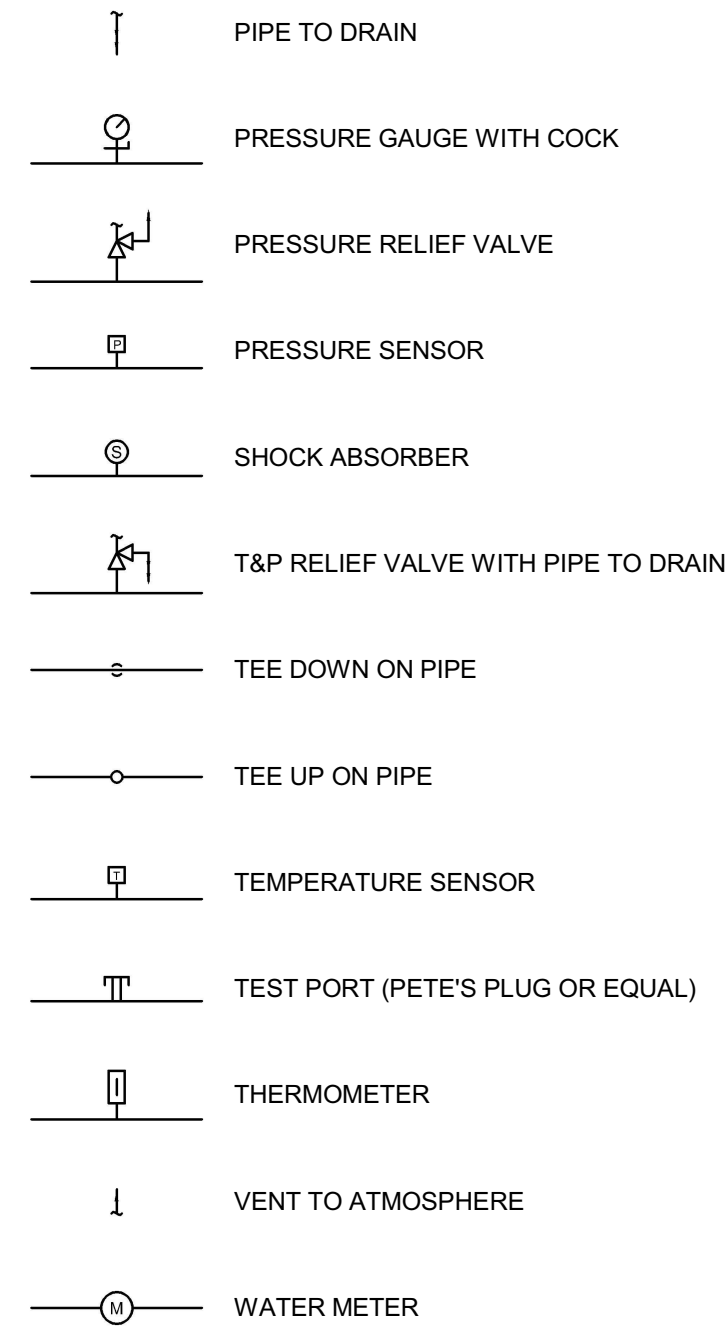
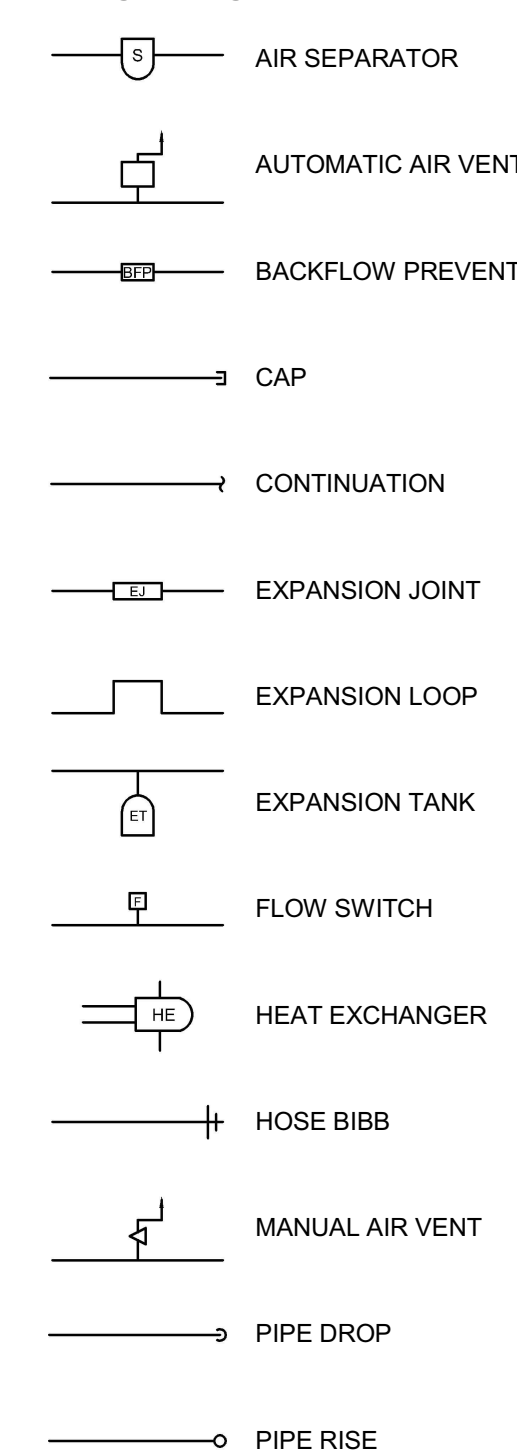
Ductwork Fittings



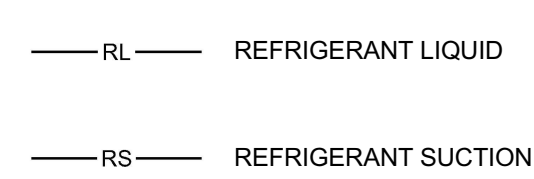
Equipment



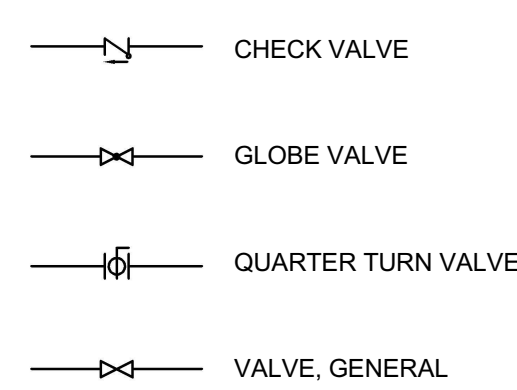
Piping Fittings, Appurtenances and Equipment



Piping Systems



Piping Valves



GENERAL SEISMIC BRACING REQUIREMENTS

- PROVIDE SEISMIC BRACING OF HVAC EQUIPMENT, DUCTWORK, AND PIPING IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST BUILDING CODE WITH AN IMPORTANCE FACTOR IDENTIFIED ON ARCHITECTURAL AND STRUCTURAL DOCUMENTS.
- REFER TO STRUCTURAL DRAWINGS FOR CONCRETE ANCHOR TYPE AND INSTALLATION REQUIREMENTS.
- SUBMIT SEISMIC BRACING DETAILS FOR REVIEW.
- SUPPORT AND BRACE DUCTWORK, PIPING, AND APPURTENANCES WITH OSHPD PRE-APPROVED SYSTEMS (WHETHER AN OSHPD PROJECT OR NOT).
 - OPM-0043-13 MASON SEISMIC RESTRAINT COMPONENTS FOR SUSPENDED UTILITIES.
 - OPM 0052-13 EATON/TOLCO SEISMIC BRACINGS & HANGERS.
- WITHOUT ANY EXCEPTIONS, BRACE EVERY RUN OF DUCT DESIGNED TO CARRY TOXIC OR EXPLOSIVE GASES, OR USED FOR SMOKE CONTROL OR PRESSURIZATION AIR, FOR OTHER DUCTWORK BRACE EVERY RUN OF DUCT WITH A CROSS SECTIONAL AREA OF LARGER THAN 6 SQ.FT., EXCEPT THAT BRACING OF DUCTWORK WITH SUPPORT ROD LENGTH LESS THAN 12" IS NOT REQUIRED. ROD LENGTH SHALL BE AS MEASURED FROM TOP OF DUCT TO BOTTOM OF SUPPORT WHERE THE HANGER IS ATTACHED. SEISMIC BRACING, WHERE SHOWN ON DRAWINGS, IS THE MINIMUM REQUIRED; PROVIDE ADDITIONAL BRACING AS REQUIRED BY OPM-0043-13, OR EQUAL.
 - LONGITUDINAL BRACING: MINIMUM 1, WITH MAXIMUM SPACING OF 60'.
 - TRANSVERSE BRACING: MINIMUM TWO, WITH MAXIMUM SPACING OF 30'. AT END OF DUCT RUNS HAVING MIN OF 2 SUPPORTS, AND AT EVERY DROP OR RISE EXCEPT FOR CONNECTION TO DIFFUSERS WHERE THE ELEVATION CHANGE OF CONNECTING DUCTWORK IS LESS THAN 24 INCHES.
- WHERE BRACING IS REQUIRED, BRACE DUCTWORK FOR EACH STRAIGHT RUN OF DUCT WITH THE FOLLOWING REQUIREMENTS (SEE OPM-0043-13 FOR ADDITIONAL REQUIREMENTS).
 - LONGITUDINAL BRACING: MINIMUM 1, WITH MAXIMUM SPACING OF 60'.

GREEN BUILDING REQUIREMENTS

- CONTRACTOR SHALL EXECUTE A CONSTRUCTION WASTE MANAGEMENT PLAN IN COMPLIANCE WITH THE GREEN BUILDING REQUIRED MEASURES OF 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE.
- CONTRACTOR SHALL PROTECT DUCT OPENINGS AND MECHANICAL EQUIPMENT DURING CONSTRUCTION IN COMPLIANCE WITH THE GREEN BUILDING REQUIRED MEASURES OF 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE.
- CONTRACTOR SHALL ONLY USE ADHESIVES, SEALANTS, & CAULKS IN COMPLIANCE WITH THE GREEN BUILDING REQUIRED MEASURES OF 2017 CALIFORNIA GREEN BUILDINGS STANDARDS CODE.
- CONTRACTOR SHALL ONLY USE PAINTS AND COATINGS IN COMPLIANCE WITH THE GREEN BUILDING REQUIRED MEASURES OF 2016 CALIFORNIA GREEN BUILDING CODE.
- CONTRACTOR SHALL NOT USE CFC'S NOR HALONS IN COMPLIANCE WITH THE GREEN BUILDING REQUIRED MEASURES OF 2016 CALIFORNIA GREEN BUILDING CODE.

DSA COMPONENT ANCHORAGE NOTES

- ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26, AND ASCE 7-10 CHAPTER 13, 26 AND 30.
 - ALL PERMANENT EQUIPMENT AND COMPONENTS.
 - TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
 - MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.
- THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED TO BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENTS AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
 - COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
 - COMPONENTS WEIGHING LESS THAN 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.
- FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

- PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.5, AND 2016 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.
- THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPM #).
- COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.

GENERAL MECHANICAL NOTES

- PROVIDE MISCELLANEOUS METALS AND MATERIALS FOR A COMPLETE INSTALLATION (IE. SUPPORT, BRACING, ETC.)
- PROVIDE EQUIPMENT SUBMITTAL, FOR REVIEW, IN ACCORDANCE WITH THE SPECIFICATIONS. DO NOT DELIVER TO THE JOB SITE ANY PRODUCTS WITHOUT PRIOR REVIEW BY THE ARCHITECT. SUBMIT ALL REQUIRED SUBMITTALS AT ONE TIME. AT CONTRACTOR'S OPTION, 3 SEPARATE SUBMITTALS MAY BE SUBMITTED, CONSISTING OF: UNDERGROUND WORK, BUILDING WORK, AND BUILDING AUTOMATION SYSTEM - DEVIATIONS WILL BE RETURNED WITHOUT REVIEW. INCOMPLETE SUBMITTALS WILL BE RETURNED WITHOUT REVIEW. ENGINEER WILL PROVIDE MAXIMUM OF TWO REVIEWS OF SUBMITTAL PACKAGE. ARRANGE FOR ADDITIONAL REVIEWS AND/OR EARLY REVIEW OF LONG-LEAD ITEMS AND BEAR COSTS OF THESE ADDITIONAL REVIEWS AT ENGINEER'S STANDARD HOURLY RATES. SUBSTITUTION REQUESTS WILL NOT BE REVIEWED AFTER AWARD OF CONTRACT.
- PROVIDE SMOKE DETECTORS IN MAIN SUPPLY AIR DUCT OF ANY SUPPLY AIR SYSTEM WITH AIR QUANTITY OF MORE THAN 2000 CFM OR OF SUPPLY AIR SYSTEM(S) WHERE THE COMBINED SUPPLY AIR QUANTITY OF SUPPLY AIR SYSTEM(S) SUPPLYING AIR INTO ONE ZONE EXCEED 2000 CFM.
- WHERE COMBINATION FIRE AND SMOKE DAMPER IS SHOWN IMMEDIATELY BEHIND A WALL MOUNTED GRILLE AND THERE IS INSUFFICIENT ACCESS AT DUCTWORK, ENLARGE THE WIDTH OF THE GRILLE AND FSD BY A MINIMUM OF 6 INCHES, OR AS OTHERWISE REQUIRED BY FSD MANUFACTURER, AND PROVIDE A "FRONT ACCESS" FSD FOR ACCESS TO FSD COMPONENTS FROM FACE OF GRILLE. INSTALL GRILLE FLUSH WITH WALL SURFACE AND LOCATE DAMPER ACTUATOR OUTSIDE OF THE AIRSTREAM. FSD'S SHALL BE RUSKIN FSD-60FA OR EQUAL.
- PRIOR TO SUBMISSION OF BID, REVIEW A COMPLETE SET OF CONSTRUCTION DOCUMENTS (INCLUDING ALL OTHER TRADES). INCLUDE ADDITIONAL PIPE OR DUCT OFF-SETS THAT MAY BE REQUIRED TO CLEAR STRUCTURE, FINISHES OR WORK OF OTHER TRADES. FIELD VERIFY EXACT LOCATION AND SIZES OF EXISTING UTILITIES, THE PROPOSED POINT OF CONNECTIONS TO EXISTING SYSTEMS, AND NEW ROUTINGS. EXTRA PAYMENT WILL NOT BE ALLOWED FOR WORK RESULTING FROM LACK OF APPRAISAL OF ENTIRE SCORE OF WORK. PRIOR TO BID, SYSTEM LAYOUTS AS INDICATED ON DRAWINGS ARE GENERALLY DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS ACTUAL CONSTRUCTION WILL PERMIT.
- PROVIDE DUCT ACCESS DOORS FOR EQUIPMENT AND DEVICES REQUIRING ACCESS OR RESETING (IE. FIRE AND SMOKE DAMPERS, SMOKE DAMPERS, SENSORS, ETC.) INDICATE SIZE AND LOCATION ON COORDINATED SHOP DRAWINGS.
- FLASH AND COUNTER FLASH ALL ROOF PENETRATIONS TO SEAL WEATHER TIGHT (SEE ARCHITECTURAL ROOFING DETAILS AND SPECIFICATIONS).
- PROVIDE DUCTWORK AND TRANSITIONS EQUAL TO DUCT FREE AREA SHOWN ON DRAWINGS, TO PREVENT A SPATIAL CONFLICT. AT CONTRACTOR'S OPTION AND IF SPATIAL CONSTRAINTS ALLOW IT, ROUND SPIRAL DUCTWORK, OF EQUAL CROSS-SECTIONAL AREA OR LARGER, MAY BE USED IN LIEU OF RECTANGULAR DUCTWORK WHERE SHOWN ON PLANS.
- PROVIDE FIELD INSTALLED OR MANUFACTURER'S REFRIGERANT LINE SETS BETWEEN THE SPLIT SYSTEMS' INDOOR AND OUTDOOR COMPONENTS, SIZING, QUANTITY, AND INSTALLATION OF PIPES SHALL BE PER MANUFACTURER'S RECOMMENDATIONS BASED ON ACTUAL FIELD INSTALLED LENGTH. PROVIDE HARD WIRED THERMOSTATS AND CONTROL WIRING IN CONDUIT BETWEEN INDOOR AND OUTDOOR UNITS.
- EQUIPMENT, HVAC DUCTS, PIPING AND OTHER DEVICES AND MATERIALS INSTALLED OUTDOORS OR EXPOSED TO WEATHER SHALL BE WEATHER PROOF.
- USE FLEXIBLE DUCTS ONLY FOR THE LAST 5 FEET MAXIMUM AT AIR OUTLETS. PER 2016 CM-C-603.4.1 EXCEPT FOR RESIDENTIAL OCCUPANCIES DO NOT USE FLEXIBLE DUCTWORK IN LIEU OF ELBOWS OR FITTINGS.
- PROVIDE MANUAL VOLUME DAMPERS AT EACH GRILLE, REGISTER, AND DIFFUSER, AND LOCATE EQUIDISTANCE BETWEEN BRANCH TAKEOFF AND AIR INLET/OUTLET. DO NOT USE VOLUME DAMPERS INTEGRAL WITH GRILLES, DIFFUSERS AND REGISTERS FOR AIR BALANCING.
- INSTALL EQUIPMENT WITH SUFFICIENT ACCESS TO PANELS, CONTROLS, FILTERS, MOTORS, ETC. COORDINATE ACCESS TO ALL DAMPERS, VALVES, AND OTHER SERVICEABLE EQUIPMENT. REVIEW CEILING HEIGHTS AND COORDINATE ACCESS PANEL LOCATIONS.
- COORDINATE EQUIPMENT PLATFORMS, AND CUTTING AND PATCHING. OBTAIN WRITTEN PERMISSION FROM THE ARCHITECT PRIOR TO ANY STRUCTURAL MODIFICATIONS, CUTTING OR PATCHING WORK. KEEP SAW CUTTING TO A MINIMUM.
- VERIFY DIFFUSERS, GRILLES, AND REGISTER MOUNTING FRAME TYPES WITH CONSTRUCTION TYPE AND CONFIGURATION.
- PAINT FLAT BLACK ALL VISIBLE INTERIOR PORTIONS OF DUCTWORK.
- PROTECT AND ISOLATE DUCTS STORED ON CONSTRUCTION SITE FROM DUST CONTAMINATION.
- COORDINATE LOCATION OF SENSORS AND THERMOSTATS WITH ARCHITECT, COMPLY WITH ADA REQUIREMENTS.
- "DEMOLISH" OR "REMOVE" MEAN REMOVE AND RETURN TO OWNER FOR ACCEPTANCE, AND DISPOSE OF ANY ITEMS NOT ACCEPTED BY THE OWNER.
- COORDINATE WITH DIVISION 26 FOR LOCATION OF POWER AND LOCAL DISCONNECTS FOR MECHANICAL EQUIPMENT DEVICES. PROVIDE STARTERS FOR EQUIPMENT WITHOUT VFD'S, ECM MOTORS, OR EQUIPMENT WITHOUT INTEGRAL STARTERS.
- MAINTAIN MINIMUM ELECTRICAL CODE AND UNIT MANUFACTURERS' CLEARANCES TO ADJACENT CONSTRUCTION OR EQUIPMENT, PER NEC OR THE FOLLOWING TABLE:

| | 0-150 VOLT | 150-600 |
|--|------------|---------|
| NO LIVE OR GROUNDED PARTS ON OPPOSITE SIDE | 36 INCH | 36 INCH |
| GROUNDED PARTS ON OPPOSITE SIDE | 36 INCH | 42 INCH |
| LIVE PARTS ON OPPOSITE SIDE | 36 INCH | 48 INCH |

SHEET INDEX

| | | |
|----------|---|--|
| M0.01.2 | SYMBOLS LIST AND GENERAL NOTES - MECHANICAL | |
| M0.02.2 | TITLE 24 - MECHANICAL | |
| M0.03.2 | TITLE 24 - MECHANICAL | |
| M0.04.2 | TITLE 24 - MECHANICAL | |
| M0.05.2 | TITLE 24 - MECHANICAL | |
| M0.06.2 | SCHEDULES - MECHANICAL | |
| M2.30A.2 | 1ST FLOOR OVERALL PLAN - MECHANICAL | |
| M2.31.2 | LIBRARY LEARNING RESOURCE CENTER FLOOR PLAN - MECHANICAL | |
| M2.36.2 | DEMO & NEW - 1ST FLOOR - WEST - CAFE - MECHANICAL | |
| M2.36A.2 | NEW - 1ST FLOOR - WEST - LEARNING COMMONS - MECHANICAL | |
| M2.37.2 | NEW - 2ND FLOOR - WEST - LEARNING COMMONS - MECHANICAL | |
| M2.40.2 | ATTIC PLAN - WEST - MECHANICAL | |
| M2.41.2 | ROOF PLAN - LIBRARY LEARNING RESOURCE CENTER - MECHANICAL | |
| M3.01.2 | SECTIONS - MECHANICAL | |
| M5.01.2 | DETAILS - MECHANICAL | |
| M5.02.2 | DETAILS - MECHANICAL | |
| M5.03.2 | DETAILS - MECHANICAL | |
| M6.01.2 | CAFE AND OVER SYSTEM CONTROL DIAGRAMS - MECHANICAL | |
| M6.02.2 | NEW LIBRARY ALC SYSTEM CONTROL DIAGRAMS - MECHANICAL | |
| M6.03.2 | NEW LIBRARY CONTROL DIAGRAMS - MECHANICAL | |

These Record Documents have been prepared based on information provided by others. The design professional has not verified the accuracy and/or completeness of this information and shall not be responsible for any error or omissions which may be incorporated herein as a result.

NOLL & TAM ARCHITECTS

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Berkeley, CA 94710
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ARCHITECTS SEAL

PROJECT 2016-0538

CONTACT

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www.interfaceengineering.com

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE DESIGN PROFESSIONAL HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERROR OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

PROJECT TITLE

CONTRA COSTA CCD D-4002 DVC SAN RAMON CAMPUS EXPANSION & RENOVATION

1690 Watermill Rd.
San Ramon, CA 94582

RECORD SET:

THESE DRAWINGS HAVE BEEN PREPARED FROM ADDENDUMS, CCD'S, ASIS AND SELECT RIF'S OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM. ONLY A SELECT FEW AS-BUILTS WERE SUBMITTED.

ISSUE TITLE

INCREMENT 2

ISSUE DATE 08/22/2023

NOLL & TAM JOB NUMBER 21630

REVISIONS

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
| | | |

SHEET TITLE

SYMBOLS LIST AND GENERAL NOTES - MECHANICAL

SHEET NUMBER

M0.01.2

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
 CERTIFICATE OF COMPLIANCE
 Mechanical Systems
 Project Name: DVC San Ramon Campus Expansion Date Prepared: 10/31/2018 Page of

A. MECHANICAL COMPLIANCE DOCUMENTS & WORKSHEETS (check box if worksheet is included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, refer to the 2016 Nonresidential Manual. Note: The Enforcement Agency may require all forms to be incorporated onto the building plans.

| YES | NO | Comp. Doc./Worksheet # | Title |
|-------------------------------------|--------------------------|-----------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | NRCC-MCH-01-E (Part 1 of 3) | Certificate of Compliance, Declaration. Required on plans for all submittals. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | NRCC-MCH-01-E (Part 2 of 3) | Certificate of Compliance, Required Acceptance Tests (MCH-02-A to 11-A). Required on plans for all submittals. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | NRCC-MCH-01-E (Part 3 of 3) | Certificate of Compliance, Required Acceptance Tests (MCH-12-A to 18-A). Required on plans where applicable. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | NRCC-MCH-02-E (Part 1 of 2) | Mechanical Dry Equipment Summary is required for all submittals with Central Air Systems. It is optional on plans. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | NRCC-MCH-02-E (Part 2 of 2) | Mechanical Wet Equipment Summary is required for all submittals with chilled water, hot water or condenser water systems. It is optional on plans. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | NRCC-MCH-03-E | Mechanical Ventilation and Reheat is required for all submittals with multiple zone heating and cooling systems. It is optional on plans. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | NRCC-MCH-07-E (Part 1 of 2) | Power Consumption of Fans. Required on plans where applicable. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | NRCC-MCH-07-E (Part 2 of 2) | Power Consumption of Fans, Declaration. Required on plans where applicable. |

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
 CERTIFICATE OF COMPLIANCE
 Mechanical Systems
 Project Name: DVC San Ramon Campus Expansion Date Prepared: 08/12/2019 Page of

B. MECHANICAL HVAC ACCEPTANCE FORMS (check box for required compliance documents)

Test Performed By: _____

Designer: This compliance document is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for HVAC systems. The designer is required to check the applicable boxes for all acceptance tests that apply and list all equipment that requires an acceptance test. All equipment of the same type that requires a test, list the equipment description and the number of systems.

Installing Contractor: The contractor who installed the equipment is responsible to either conduct the acceptance test themselves or have a qualified entry run the test for them. If more than one person has responsibility for the acceptance testing, each person shall sign and submit the Certificate of Acceptance applicable to the portion of the construction or installation for which they are responsible.

Enforcement Agency: Plancheck - The NRCC-MCH-01-E compliance document is not considered a completed document and is not to be accepted by the building department unless the correct boxes are checked. Inspector - Before occupancy permit is granted all newly installed process systems must be tested to ensure proper operation.

| Test Description | MCH-02-A | MCH-03-A | MCH-04-A | MCH-05-A | MCH-06-A | MCH-07-A | MCH-08-A | MCH-09-A | MCH-10-A | MCH-11-A | |
|---|------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|---------------------------------------|-------------------------------|
| Equipment Requiring Testing or Verification | # of Units | Outdoor Air | Single Zone Unitary | Air Distribution Ducts | Economizer Controls | Demand Controlled Ventilation (DCV) | Supply Fan VAV | Valve Leakage Test | Supply Water Temp. Reset | Hydronic System Variable Flow Control | Automatic Demand Shed Control |
| MAU-1 | 1 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| AHU-8 | 1 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| FC-1 AND CU-1 | 1 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| FC-2 AND CU-2 | 1 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
 CERTIFICATE OF COMPLIANCE
 Mechanical Systems
 Project Name: DVC San Ramon Campus Expansion Date Prepared: 08/12/2019 Page of

C. MECHANICAL HVAC ACCEPTANCE FORMS (check box for required compliance documents)

Test Performed By: _____

Designer: This compliance document is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for HVAC systems. The designer is required to check the applicable boxes for all acceptance tests that apply and list all equipment that requires an acceptance test. All equipment of the same type that requires a test, list the equipment description and the number of systems.

Installing Contractor: The contractor who installed the equipment is responsible to either conduct the acceptance test themselves or have a qualified entry run the test for them. If more than one person has responsibility for the acceptance testing, each person shall sign and submit the Certificate of Acceptance applicable to the portion of the construction or installation for which they are responsible.

Enforcement Agency: Plancheck - The NRCC-MCH-01-E compliance document is not considered a completed document and is not to be accepted by the building department unless the correct boxes are checked. Inspector - Before occupancy permit is granted all newly installed process systems must be tested to ensure proper operation.

| Test Description | MCH-12-A | MCH-13-A | MCH-14-A | MCH-15-A | MCH-16-A | MCH-17-A | MCH-18-A |
|---|------------|--|--|--|--------------------------------------|---------------------------------------|--------------------------------|
| Equipment Requiring Testing or Verification | # of Units | Fault Detection & Diagnostics for DX Units | Automatic Fault Detection & Diagnostics for Air & Zone | Distributed Energy Storage DX AC Systems | Thermal Energy Storage (TES) Systems | Supply Air Temperature Reset Controls | Condenser Water Reset Controls |
| MAU-1 | 1 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| AHU-8 | 1 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| FC-1 AND CU-1 | 1 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| FC-2 AND CU-2 | 1 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
 CERTIFICATE OF COMPLIANCE
 HVAC Dry System Requirements
 Project Name: DVC San Ramon Campus Expansion Date Prepared: 08/12/2019 Page 1 of 3

A. Equipment Tags and System Description¹- Dry Systems

| | MAU-1 | AHU-8 | FC-1.2 & CU-1.2 |
|--|--------------------------|--|--|
| MANDATORY MEASURES | T-24 Sections | Reference to the Requirements in the Contract Documents² | |
| Heating Equipment Efficiency ³ | 110.1 or 110.2(a) | SEE M0.06.2 | SEE M0.06.2 |
| Cooling Equipment Efficiency ³ | 110.1 or 110.2(a) | | |
| HVAC or Heat Pump Thermostats | 110.2(b), 110.2(c) | | |
| Furnace Standby Loss Control | 110.2(d) | | |
| Low Leakage AHUs | 110.2(e) | | |
| Ventilation ⁴ | 120.1(b) | | |
| Demand Control Ventilation ⁵ | 120.1(c) | | |
| Occupant Sensor Ventilation Control ⁶ | 120.1(f)(5), 120.2(e)(3) | | |
| Shutoff and Reset Controls ⁷ | 120.2(b) | | |
| Outdoor Air and Exhaust Damper Control | 120.2(c) | | |
| Isolation Zones | 120.2(g) | | |
| Automatic Demand Shed Controls | 120.2(h) | | |
| Economizer FOD | 120.2(i) | | |
| Duct Insulation | 120.4 | | |
| PRESCRIPTIVE MEASURES | | | |
| Equipment is sized in conformance with 140.4 (a & b) | 140.4(a) & (b) | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Supply Fan Pressure Control | 140.4(c) | SEE M0.06.2 | SEE M0.06.2 |
| Simultaneous Heat/Cool ⁸ | 140.4(d) | | |
| Economizer | 140.4(e) | | |
| Heat and Cool Air Supply Reset | 140.4(f) | | |
| Electric Resistance Heating ⁹ | 140.4(g) | | |
| Duct Leakage Sealing and Testing ¹⁰ | 140.4(h) | | |

Notes:

- Provide equipment tags (e.g. AHU 1 to 10) and system description (e.g. Single Duct VAV reheat) as appropriate. Multiple units with common requirements can be grouped together.
- Provide references to plans (i.e. Drawing Sheet Numbers) and/or specifications (including Section name/number and relevant paragraphs) where each requirement is specified. Enter "N/A" if the requirement is not applicable to this system.
- The referenced plans and specifications must include all of the following information: equipment tag, equipment nominal capacity, Title 24 minimum efficiency requirements, and actual rated equipment efficiencies. Where multiple efficiency requirements are applicable (e.g. full- and part-load) include all. Where applicable standards apply (110.1), identify where equipment is required to be listed per Title 20 1601 et seq.
- Identify where the ventilation requirements are documented for each central HVAC system. Include references to both central unit schedules and sequences of operation. If one or more spaces is naturally ventilated identify where this is documented in the plans and specifications. Multiple zone central air systems must also provide a MCH-03-E compliance document.
- If one or more spaces has demand controlled ventilation identify where it is specified including the sensor specifications and the sequence of operation.
- If one or more spaces has occupant sensor ventilation control identify where it is specified including the sensor specifications and the sequence of operation.
- If the system is DDC identify the sequences for the system start/stop, optimal start, setback (if required) and setup (if required). For all systems identify the specification for the thermostats and time clocks (if applicable).
- Identify where the heating, cooling and deadband airflows are scheduled for this system. Include a reference to the specification of the zone controls. Provide a MCH-03-E compliance document.
- Enter N/A if there is no electric heating. If the system has electric heating indicate which exception to 140.4(g) applies.
- If duct leakage sealing and testing is required, a MCH-04-A compliance document must be submitted.

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
 CERTIFICATE OF COMPLIANCE
 HVAC Dry & Wet System Requirements
 Project Name: DVC San Ramon Campus Expansion Date Prepared: 08/12/2019 Page 2 of 3

B. Equipment Tags and System Description¹- Wet Systems

| | MAU-1 | AHU-8 | FC-1.2 & CU-1.2 |
|--|--------------------------|--|--|
| MANDATORY MEASURES | T-24 Sections | Reference to the Requirements in the Contract Documents² | |
| Heating Hot Water Equipment Efficiency ³ | 110.1 | N/A | N/A |
| Cooling Chilled and Condenser Water Equipment Efficiency ³ | 110.1, 140.4(i) | | |
| Open and Closed Circuit Cooling Towers conductivity or flow-based controls | 110.2(e) 1 | | |
| Open and Closed Circuit Cooling Towers Maximum Achievable Cycles of Concentration (L/S) ⁴ | 110.2(e) 2 | | |
| Open and Closed Circuit Cooling Towers Flow Meter with analog output | 110.2(e) 3 | | |
| Open and Closed Circuit Cooling Towers Overflow Alarm | 110.2(e) 4 | | |
| Open and Closed Circuit Cooling Towers Efficient Drift Eliminators | 110.2(e) 5 | | |
| Pipe Insulation | 120.3 | | |
| PRESCRIPTIVE MEASURES | | | |
| Cooling Tower Fan Controls | 140.4(h)(2), 140.4(h)(5) | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Cooling Tower Flow Controls | 140.4(h)(3) | N/A | N/A |
| Centrifugal Fan Cooling Towers ⁵ | 140.4(h)(4) | | |
| Air-Cooled Chiller Limitation ⁶ | 140.4(i) | | |
| Variable Flow System Design | 140.4(j) | | |
| Chiller and Boiler Isolation | 140.4(k) | | |
| CHW and HWHP Reset Controls | 140.4(l) | | |
| WJHP Isolation Valves | 140.4(m) | | |
| VSD on CHW, CW & WJHP Pumps >SHP DP Sensor Location | 140.4(n) | | |

Notes:

- Provide equipment tags (e.g. CH 1 to 3) or system description (e.g. CHW loop) as appropriate. Multiple units with common requirements can be grouped together.
- Provide references to plans (i.e. Drawing Sheet Numbers) and/or specifications (including Section name/number and relevant paragraphs) where each requirement is specified. Enter "N/A" if the requirement is not applicable to this system.
- The referenced plans and specifications must include all of the following information: equipment tag, equipment nominal capacity, Title 24 minimum efficiency requirements, and actual rated equipment efficiencies. Where multiple efficiency requirements are applicable (e.g. full- and part-load) include all. For chillers operating at non-standard efficiencies provide the Kd values. For chillers also note whether the efficiencies are Path A or Path B.
- Identify if cooling towers have propeller fans. If towers use centrifugal fans document which exception is used.
- If air-cooled chillers are used, document which exceptions have been used to comply with 140.4(i) and the total installed design capacity of the air-cooled chillers in the chilled water plant.
- Identify the existence of a completed MCH-06-E when open or closed circuit cooling towers are specified to be installed, otherwise enter "N/A".

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
 CERTIFICATE OF COMPLIANCE
 Commercial Kitchen Requirements
 Project Name: DVC San Ramon Campus Expansion Date Prepared: 02/25/2019 Page 1 of 2

COMMERCIAL KITCHEN REQUIREMENTS

KITCHEN ROOM NUMBER: 302 CAFE KITCHEN

TOTAL INSTALLED TYPE I and II KITCHEN HOOD EXHAUST (CFM): 4000

TOTAL BYPASS HOOD MAU (CFM): 0

TOTAL TRANSFER AIR AIRFLOW (CFM): 900

TOTAL MECHANICALLY HEATED OR COOLED MAKE UP AIR (CFM): 2900

TOTAL AIR NEEDED FOR HEATING OR COOLING (CFM):

TOTAL EXHAUST AIR WITH DEMAND VENTILATION SYSTEMS: 0

| Equipment Tags and System Description | EF-1.2 | MAU-1 |
|---|-----------------------------|--|
| PRESCRIPTIVE MEASURES | T-24 Sections | Reference to the Requirements in the Contract Documents |
| Bypass Hood Exhaust and MAU | 140.9(b)(1A) | N/A |
| Type I/II Hood Exhaust | 140.9(b)(1B), Table 140.9.A | M0.06.2 |
| Mechanically Heated or Cooled Make Up Air | 140.9(b)(2A) and # | N/A |
| Replacement Air/Transfer Air Exhaust | 140.9(b)(2B) | 2/M2.36.2 |
| Demand Ventilation Systems | 140.9(b)(2B) | N/A |
| Energy Recovery Systems | 140.9(b)(2B) | N/A |
| Tempered/Non Mechanical Cooling Air Systems | 140.9(b)(2B) | N/A |

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
 CERTIFICATE OF COMPLIANCE
 Commercial Kitchen Requirements
 Project Name: DVC San Ramon Campus Expansion Date Prepared: 02/25/2019 Page 2 of 2

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: PRIYANK VEKARIA
 Signature Date: 02/25/2019
 Address: 135 MAIN STREET, SUITE 400
 City/State/Zip: SAN FRANCISCO, CA 94105
 Phone: 415.489.3208

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

- The information provided on this Certificate of Compliance is true and correct.
- 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).
- 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.
- 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.
- 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: JESSE AGOSTA
 Signature Date: 02/25/2019
 Address: 135 MAIN STREET, SUITE 400
 City/State/Zip: SAN FRANCISCO, CA 94105
 Phone: 503.382.2634

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
 CERTIFICATE OF COMPLIANCE
 Mechanical Systems
 Project Name: DVC San Ramon Campus Expansion Date Prepared: 10/31/2018 Page of

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Priyank Vekaria
 Signature Date: 10/31/2018
 Address: 135 Main Street, Suite 400
 City/State/Zip: San Francisco, CA 94105
 Phone: 415.489.3208

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

- The information provided on this Certificate of Compliance is true and correct.
- 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).
- 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.
- 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.
- 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: Jesse Agosta
 Signature Date: 10/31/2018
 Address: 135 Main Street, Suite 400
 City/State/Zip: San Francisco, CA 94105
 Phone: 503.382.2634

NOLL & TAM ARCHITECTS

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 Berkeley, CA 94710
 tel 510.542.2200
 fax 510.542.2201

ARCHITECTS SEAL

PROJECT 2016-0538
 CONTACT

INTERFACE ENGINEERING

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 Suite 400
 San Francisco, CA 94105
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 FAX: 415.489.7289
 www.interfaceengineering.com

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PROJECT TITLE

CONTRA COSTA CCD D-4002 DVC SAN RAMON CAMPUS EXPANSION & RENOVATION

1690 Watermill Rd.
 San Ramon, CA 94582

RECORD SET:

THESE DRAWINGS HAVE BEEN PREPARED FROM ADDENDUMS, CCD'S, ASIS AND SELECT RFIS OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM. ONLY A SELECT FEW AS-BUILTS WERE SUBMITTED.

ISSUE TITLE

INCREMENT 2

ISSUE DATE: 08/22/2023

NOLL & TAM JOB NUMBER: 21630

| NO. | DATE | DESCRIPTION |
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SHEET TITLE

TITLE 24 - MECHANICAL

SHEET NUMBER

M0.02.2

STATE OF CALIFORNIA
MECHANICAL VENTILATION AND REHEAT
CERTIFICATE OF COMPLIANCE (Revised 05/16)

CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE
Mechanical Ventilation & Reheat
NRCC-MCH-03-E
Project Name: DVC San Ramon Campus Expansion Date Prepared: 10/31/2018 Page of

A. Mechanical Ventilation and Reheat
In lieu of this compliance document, the required outdoor ventilation rates and airflow may be shown on the plans or the calculations can be presented in a spreadsheet. Mechanical Ventilation and Reheat worksheets available on the Energy Commission's website at: <http://www.energy.ca.gov/title24/2016standards>.
Note: In all of the calculations that compare a supply quantity to the REQ'D V.A. quantity, the actual percentage of outdoor air in the supply is ignored.
Areas in buildings for which natural ventilation is used should be clearly designated. Specifications must require that building operating instructions include explanations of the natural ventilation system.

| ACTUAL DESIGN (FROM EQUIPMENT SCHEDULES, ETC) | AREA BASIS | OCCUPANCY BASIS | ROOM BASIS | MINIMUM | HAV REHEATED PRIMARY AIR CFM | HAV DEADEND PRIMARY AIR CFM | | | | | | | | | | | | | | |
|---|------------|-----------------|------------|---------|------------------------------|-----------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
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STATE OF CALIFORNIA FENESTRATION WORKSHEET CERTIFICATE OF COMPLIANCE NRCC-ENV-02-E Fenestration Worksheet DVC San Ramon Campus Expansion 5/17/2019

Table with 14 columns for fenestration details (Tag/ID, Window Type, Surface Area, U-Factor, SHGC, VT, Dimensions, Overhang, etc.)

Table for WEST WINDOW AREA CALCULATION showing Gross West Exterior Wall Area, West Display Linear Perimeter, etc.

Table for WINDOW AREA CALCULATION showing Gross Exterior Wall Area, Linear Display Perimeter, etc.

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STATE OF CALIFORNIA FENESTRATION WORKSHEET CERTIFICATE OF COMPLIANCE NRCC-ENV-02-E Fenestration Worksheet DVC San Ramon Campus Expansion 5/17/2019

Table for SKYLIGHT AREA CALCULATION showing Actual Gross Roof Area, Standard Allowed Skylight Area, etc.

Table for RELOCATABLE PUBLIC SCHOOL BUILDINGS showing Specific Climate Zone, Prescriptive Envelope Criteria, etc.

STATE OF CALIFORNIA FENESTRATION WORKSHEET CERTIFICATE OF COMPLIANCE NRCC-ENV-02-E Fenestration Worksheet DVC San Ramon Campus Expansion 5/17/2019

Table for DOCUMENTATION AUTHOR'S DECLARATION STATEMENT with fields for Author Name, Company, Address, etc.

Table for RESPONSIBLE PERSON'S DECLARATION STATEMENT with fields for Designer Name, Company, Address, etc.

STATE OF CALIFORNIA ENVELOPE - DAYLIT ZONE WORKSHEET CERTIFICATE OF COMPLIANCE NRCC-ENV-04-E Envelope - Daylit Zone Worksheet DVC San Ramon Campus Expansion 11/1/2018

NOTE: This worksheet applies only to buildings with three or fewer stories, climate zones 2 through 15, having an enclosed conditioned or unconditioned space > 5,000 ft² that is directly under a roof with a ceiling height > 15 ft and ≥ 0.5 W/ft², unless exempted by the EXCEPTIONS in §140.3(c).

Table for MINIMUM SKYLIGHT AREA FOR LARGE ENCLOSED SPACES (requirements in §140.3(c))

Table for SKYLIGHT INFORMATION with columns for Tag/ID, Skylight Type, Number of Skylights, U-Factor, SHGC, VT, etc.

Table for CALCULATE DAYLIT AREA (§140.3(c)(1)) showing Floor area, Minimum Prescriptively Required Total Daylit Area, etc.

Table for COMPARE TOTAL DAYLIT ZONE AREA TO PRESCRIPTIVE MINIMUM

STATE OF CALIFORNIA ENVELOPE - DAYLIT ZONE WORKSHEET CERTIFICATE OF COMPLIANCE NRCC-ENV-04-E Envelope - Daylit Zone Worksheet DVC San Ramon Campus Expansion 3/14/2019

NOTE: This worksheet applies only to buildings with three or fewer stories, climate zones 2 through 15, having an enclosed conditioned or unconditioned space > 5,000 ft² that is directly under a roof with a ceiling height > 15 ft and ≥ 0.5 W/ft², unless exempted by the EXCEPTIONS in §140.3(c).

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STATE OF CALIFORNIA ENVELOPE - DAYLIT ZONE WORKSHEET CERTIFICATE OF COMPLIANCE NRCC-ENV-04-E Envelope - Daylit Zone Worksheet DVC San Ramon Campus Expansion 3/14/2019

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Table for COMPARE TOTAL DAYLIT ZONE AREA TO PRESCRIPTIVE MINIMUM

STATE OF CALIFORNIA ENVELOPE MANDATORY MEASURES: NONRESIDENTIAL ENV-MM Project Name DVC San Ramon Campus Expansion Date 11/1/2018

Table for ENVELOPE MANDATORY MEASURES: NONRESIDENTIAL with rows for Insulating Materials, Heated Slab Floors, Fenestration U-Factor, etc.

Table for COMPARE TOTAL DAYLIT ZONE AREA TO PRESCRIPTIVE MINIMUM

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PROJECT TITLE

**CONTRA COSTA
CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION &
RENOVATION**

1690 Watermill Rd.
San Ramon, CA 94582

RECORD SET:

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ISSUE TITLE

INCREMENT 2

ISSUE DATE 08/22/2023

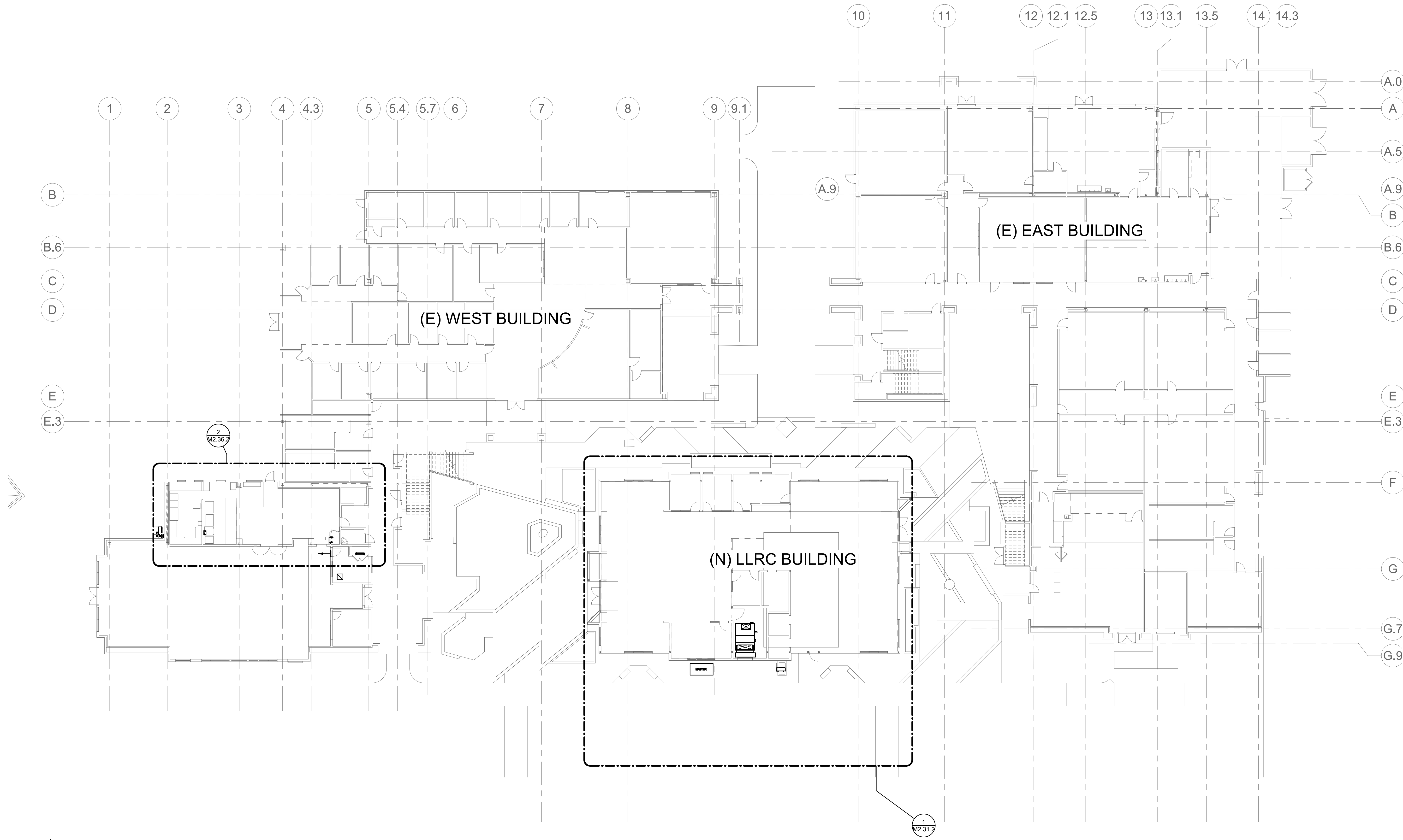
NOLL & TAM JOB NUMBER 21630

| NO. | DATE | DESCRIPTION |
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SHEET TITLE
**1ST FLOOR OVERALL
PLAN - MECHANICAL**

SHEET NUMBER

M2.30A.2



1 1ST FLOOR OVERALL PLAN - MECHANICAL

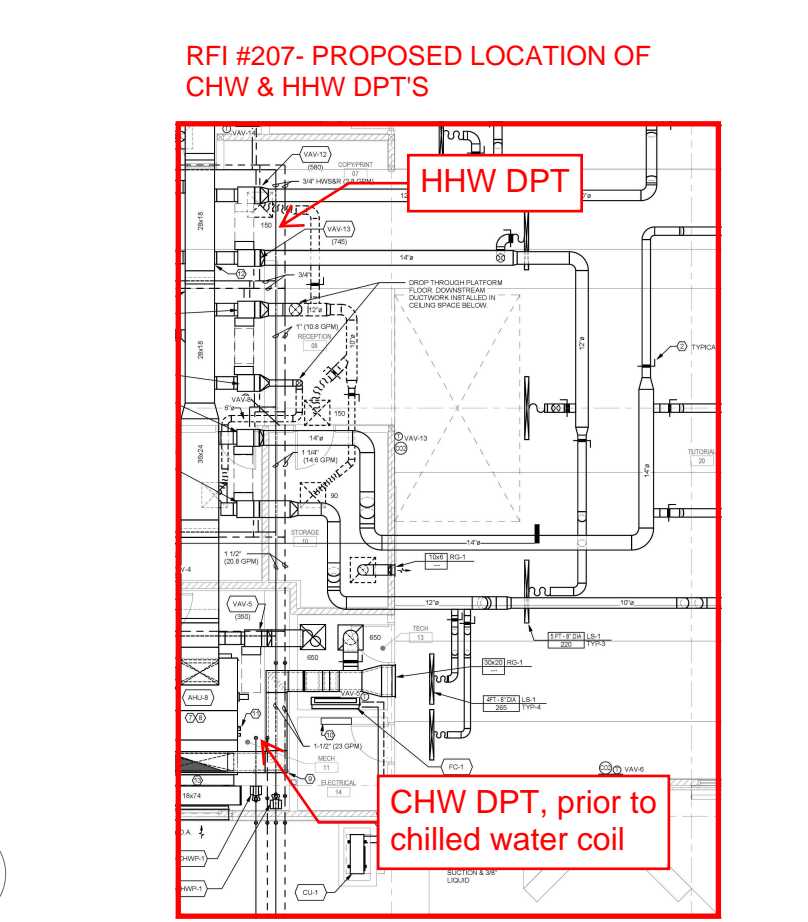
0" 4" 8" 16"
1/16" = 1'-0"

SHEET KEYNOTES

- 6.04 SQ. FT. NET FREE AREA, OUTSIDE AIR INTAKE.
- PROVIDE CONCEALED DAMPER HARDWARE PER SPECS, TYPICAL.
- MOUNT THERMOSTATS AND SENSORS LOCATED ON EXTERIOR WALLS ON AN INSULATED BASE.
- OVAL CONNECTION TO SLOT DIFFUSER PLENUM.
- INSTALL DUCTWORK AS HIGH AS PRACTICALLY NEAR THE ROOF. COORDINATE LOCATION OF VAV BOXES AND DOWNSTREAM DUCTWORK ROUTING WITH STRUCTURAL TRUSS MEMBERS.
- RETURN GRILLES LOCATED BELOW CEILING LEVEL, TYP.
- REFER TO PLUMBING DRAWINGS FOR AHU CONDENSATE DRAIN CONNECTION.
- MOUNT AND ANCHOR 6" (H) UNIT BASE RAIL TO CONCRETE FLOOR USING MASON NEOPRENE WAFFLE PADS SUPER WM PER MASON INDUSTRIES APPROVED DETAIL.
- PROVIDE CHW & HW BTU METERS WITH INTERFACE TO BUILDING AUTOMATION SYSTEM. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- CONTROLS PANEL LOCATION. COORDINATE WITH ELECTRICAL.
- PROVIDE 1-1/2" CHWS/R PIPING TO SERVE AHU-8 COILS. COORDINATE CONNECTION SIZES TO UNIT.
- PROVIDE CONICAL TAP TO VAV CONNECTION TO MAIN DUCT, TYPICAL ALL BOXES
- PROVIDE ADEQUATE STAGHT DUCT TO INSTALL O/A MEASURING STATION PER CONTROLS WITH A SMOOTH TRANSITION TO MEET LOWER SIZE.
- PROVIDE POLY-Y-HEM GOLD FIBERGLASS JACKETED POLYURETHANE INSULATED PIPING SYSTEM WITH MULTILAYER CORROSION PROTECTION.
- COORDINATE LOCATION OF DIFFUSERS WITH ARCHITECTURAL RCP.

RFI # 69 - CONCEALED DAMPER LOCATE YOUNGS REGULATOR DEVICE WITHIN LINEAR DIFFUSER - YOUNG REGULATOR 270-275 WITH 502CC DAMPER CONTROL

RFI #206 - DIV 25 SPEC REQUIRES BTU METERS TO UTILIZED FM-2 TYPE FLOW METERS. PROVIDE MODEL #-3500 PER 250000-2.9-G AND 250000-2.9-N-2.



RFI #173- ISOLATION VALVE. REMOVAL OF ISOLATION VALVE IN VAULT AND KEEP BLDG ISOLATION VALVE

RFI #142 - LOCATE HYDRONIC VAULT OUTSIDE OF FIRE-LANE NEAR BUILDING.

RFI #105- FINISHES IN ACT AND GYP ARE WHILE THOSE AT WOOD GRILLE ARE BLACK. FINISHES FOR WALL REGISTERS ARE WHITE

CD-1: white
CRG-1: white
CEG-1: white
RG-1: white
SG-1: white
LS-1: black
LS-2: black

| DIFFUSER/GRILLES | | |
|------------------|-----------|-----------|
| TAG | NECK SIZE | CFM RANGE |
| SUPPLY DIFFUSER | | |
| CD-1 | 6"Ø | 0-120 |
| CD-1 | 8"Ø | 121-210 |
| CD-1 | 10"Ø | 211-330 |
| CD-1 | 12"Ø | 331-400 |
| CD-1 | 14"Ø | 401-550 |
| RETURN GRILLES | | |
| CRG-1 | 6"Ø | 0-210 |
| CRG-1 | 10"Ø | 211-370 |
| CRG-1 | 12"Ø | 375-600 |
| EXHAUST GRILLES | | |
| CEG-1 | 6"Ø | 0-210 |
| CEG-1 | 10"Ø | 211-370 |
| CEG-1 | 12"Ø | 375-600 |

NOTE:
1. SEE DIFFUSER, REGISTER AND GRILLE SCHEDULE
2. ALL DIFFUSERS, REGISTERS AND GRILLES TO BE TYPE CD-1, CRG-1 AND CEG-1 UNLESS NOTED OTHERWISE.
3. ALL BRANCH DUCTWORK TO DIFFUSERS, REGISTERS AND GRILLES TO BE SAME SIZE SIZE AS NECK SIZE UNLESS OTHERWISE NOTED.

NOLL & TAM ARCHITECTS

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ARCHITECTS SEAL

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PROJECT TITLE

CONTRA COSTA CCD D-4002 DVC SAN RAMON CAMPUS EXPANSION & RENOVATION

1690 Watermill Rd.
San Ramon, CA 94582

RECORD SET:

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ISSUE TITLE

INCREMENT 2

ISSUE DATE: 08/22/2023

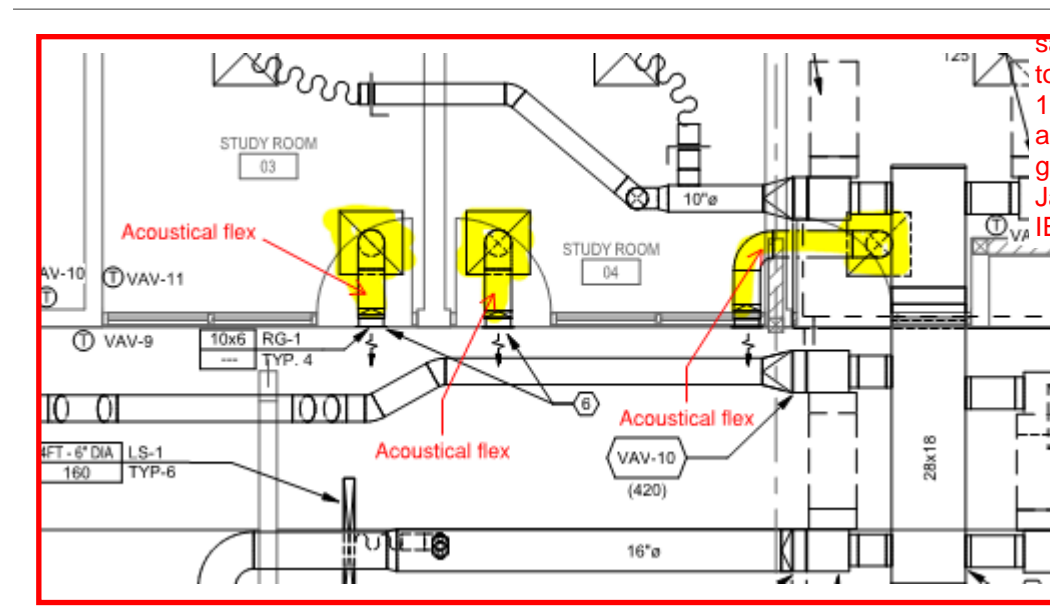
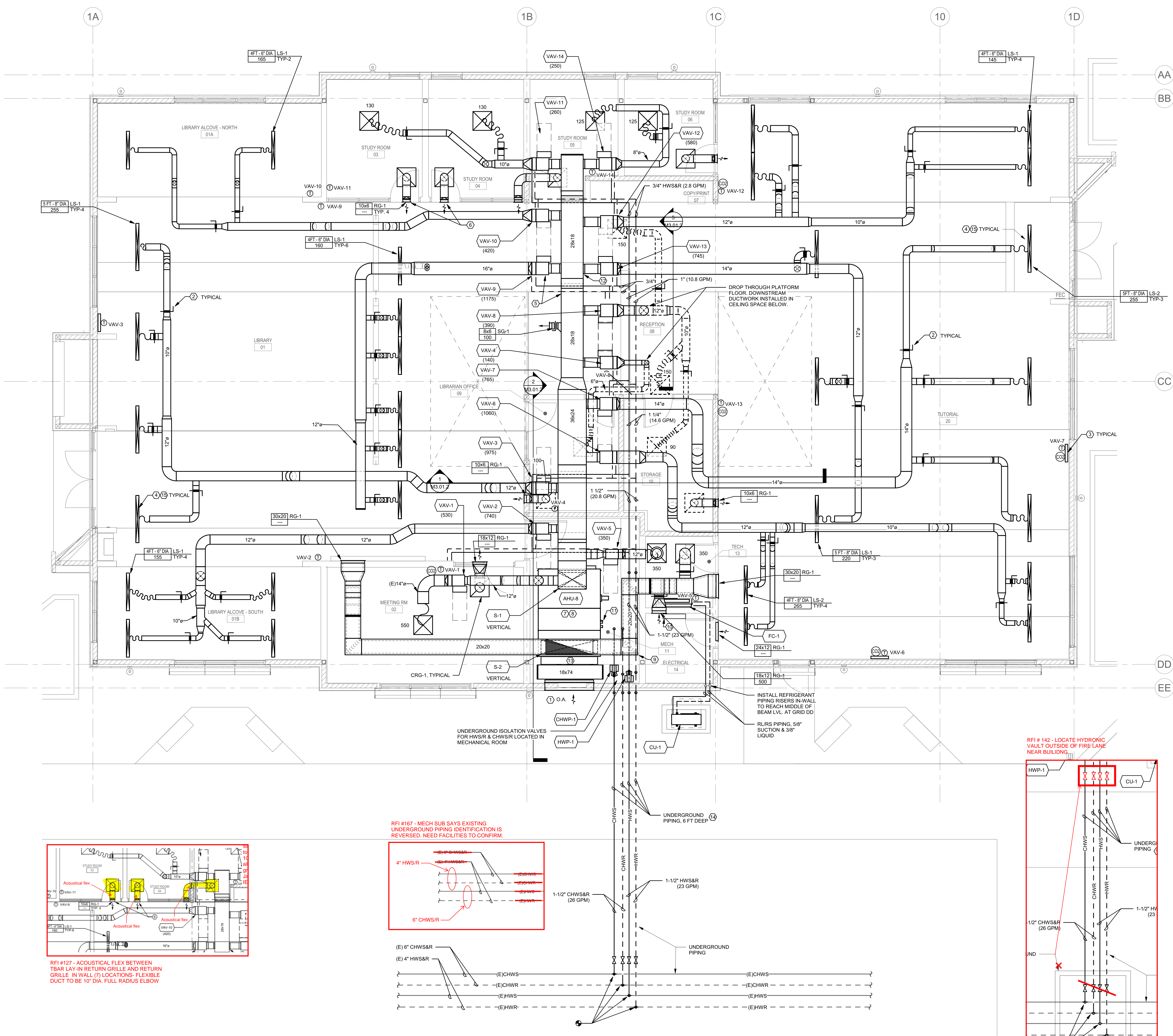
NOLL & TAM JOB NUMBER: 21630

REVISIONS: NO. | DATE | DESCRIPTION

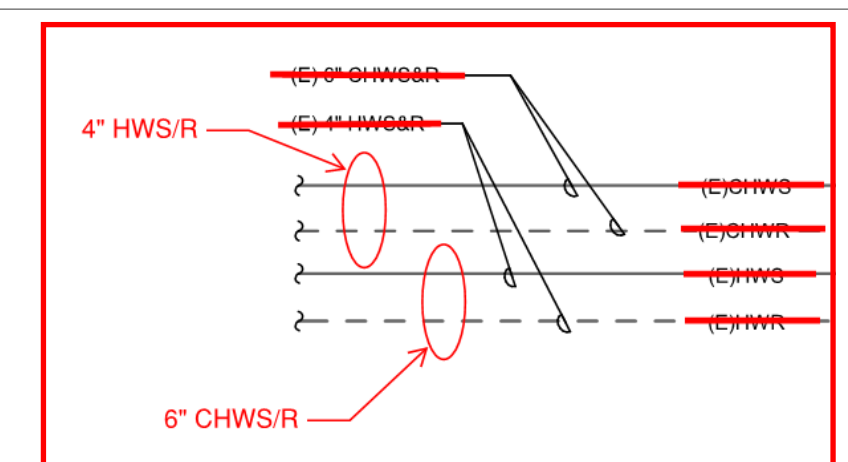
LIBRARY LEARNING RESOURCE CENTER FLOOR PLAN - MECHANICAL

SHEET NUMBER

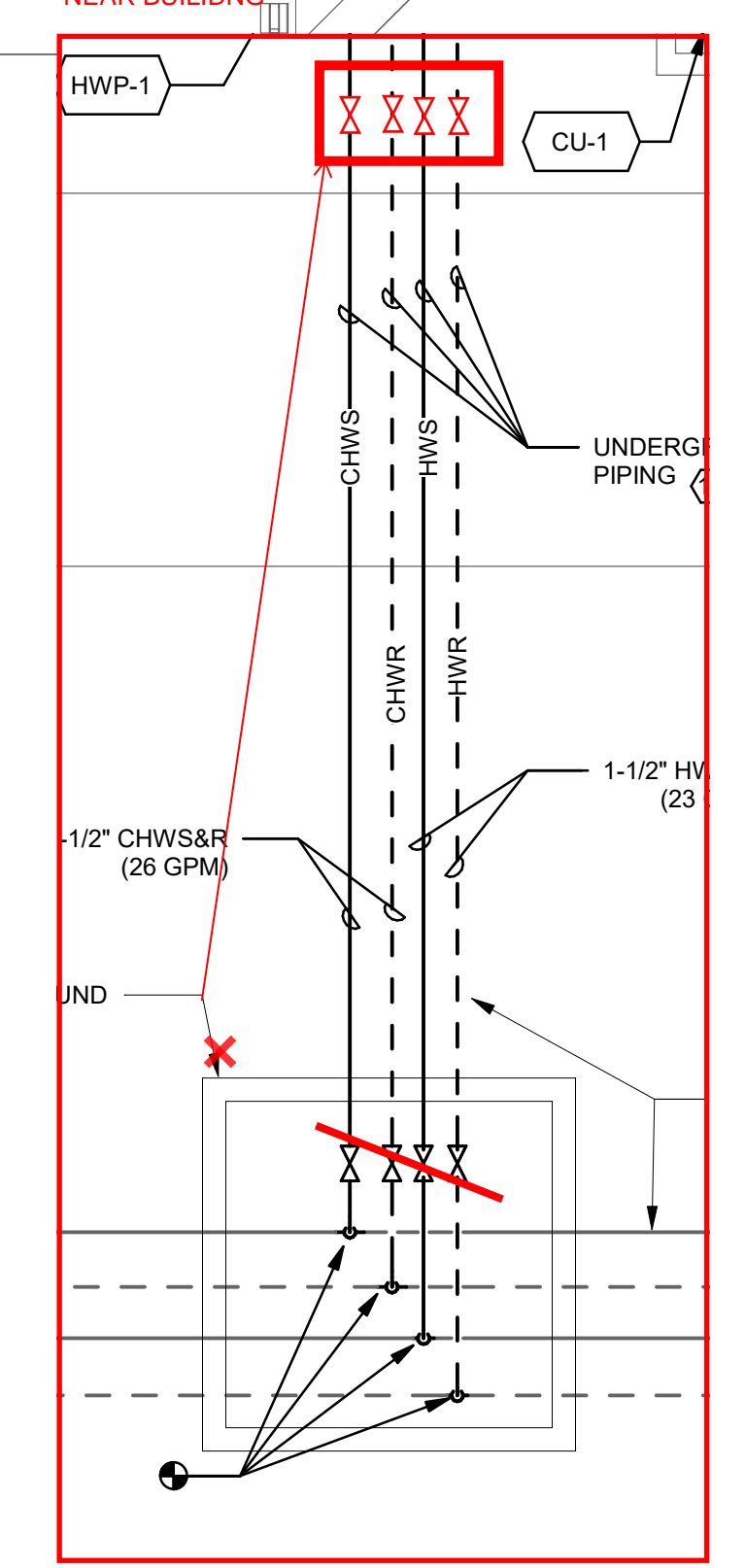
M2.31.2



RFI #127 - ACOUSTICAL FLEX BETWEEN T-BAR LAY-IN RETURN GRILLE AND RETURN GRILLE IN WALL (7) LOCATIONS- FLEXIBLE DUCT TO BE 10" DIA. FULL RADIUS ELBOW



RFI #167 - MECH SUB SAYS EXISTING UNDERGROUND PIPING IDENTIFICATION IS REVERSED. NEED FACILITIES TO CONFIRM.



RFI #142 - LOCATE HYDRONIC VAULT OUTSIDE OF FIRE-LANE NEAR BUILDING.

SHEET KEYNOTES

1. RELOCATE EXISTING DIFFUSER TO AVOID CONFLICT WITH NEW ELECTRICAL ROOM 103A. REBALANCE CFM AS REQUIRED.
2. ROUTE CONDENSATE DRAINAGE TO FLOOR SINK IN THE WATER HEATER ROOM 243.
3. RELOCATE THERMOSTAT.
4. PROVIDE REFRIGERANT PIPING, LIQUID/SUCTION, SIZE PIPES PER SPLIT SYSTEM MANUFACTURERS RECOMMENDATIONS.

APPROVALS

NOLL & TAM ARCHITECTS

729 Heinz Avenue
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tel 510.542.2200
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ARCHITECTS SEAL

PROJECT 2016-0538
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PROJECT TITLE

CONTRA COSTA CCD D-4002 DVC SAN RAMON CAMPUS EXPANSION & RENOVATION

1690 Watermill Rd.
San Ramon, CA 94582

RECORD SET:

THESE DRAWINGS HAVE BEEN PREPARED FROM ADDENDUMS, CCD'S, ASIS AND SELECT RFI'S OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM. ONLY A SELECT FEW AS-BUILTS WERE SUBMITTED.

ISSUE TITLE

INCREMENT 2

ISSUE DATE 08/22/2023

NOLL & TAM JOB NUMBER 21630

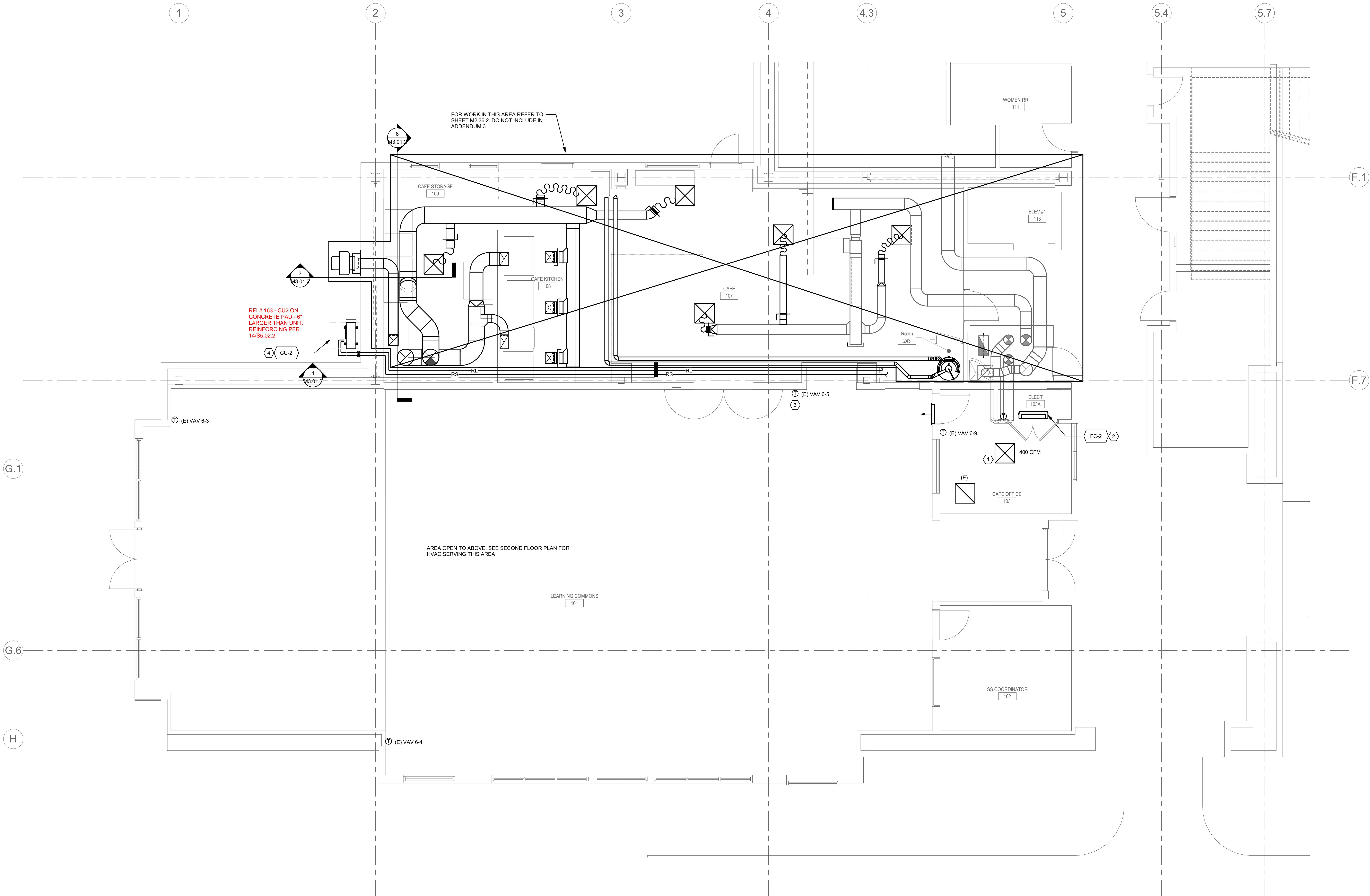
REVISIONS

| NO. | DATE | DESCRIPTION |
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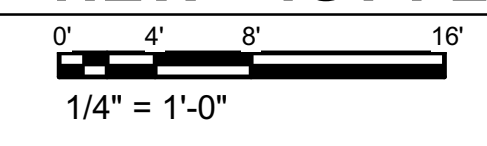
SHEET TITLE
NEW - 1ST FLOOR - WEST - LEARNING COMMONS - MECHANICAL

SHEET NUMBER

M2.36A.2



1 NEW - 1ST FLOOR PLAN - BOOKSTORE - MECHANICAL



SHEET KEYNOTES

- EXISTING DIFFUSERS TO REMAIN.

APPROVALS

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CCD
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DVC SAN RAMON
CAMPUS EXPANSION &
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ISSUE DATE 08/22/2023

NOLL & TAM JOB NUMBER 21630

REVISIONS

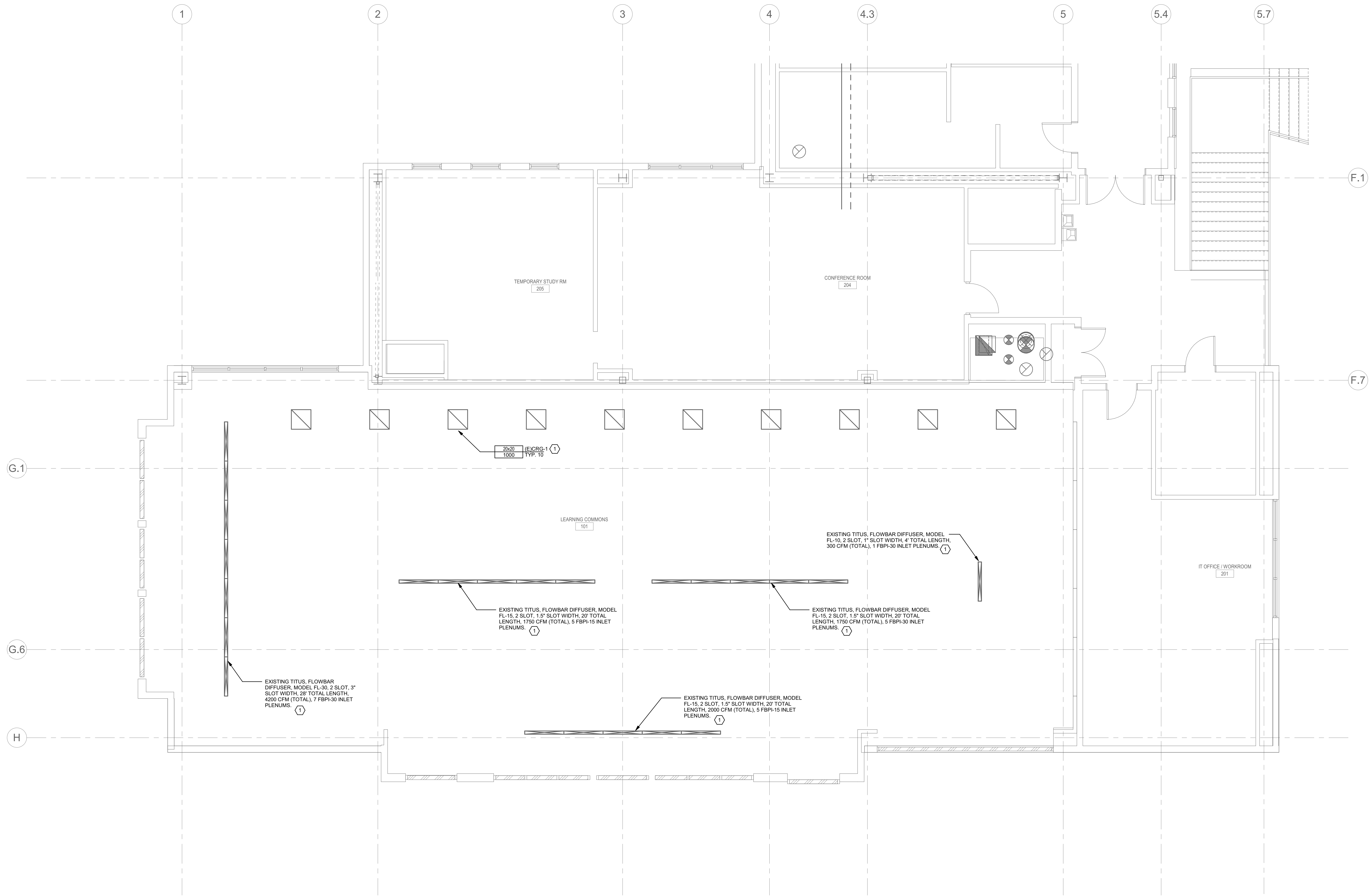
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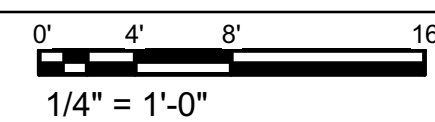
**NEW - 2ND FLOOR -
WEST - LEARNING
COMMONS -
MECHANICAL**

SHEET NUMBER

M2.37.2



1 NEW - 2ND FLOOR PLAN - A&P LAB - MECHANICAL



SHEET KEYNOTES

- 1-1/4" CHWS/R AND 1-1/4" HWS/R FROM POINT OF CONNECTION IN 2ND FLOOR MEN'S RESTROOM CEILING SPACE. COPE THRU ATTIC FLOOR SLAB AND ROUTE TO (N) MAU STACKED AND SUPPORTED WITH STRUTS ANCHORED TO THE ATTIC FLOOR. REFER TO DETAIL ON M5.03.2.
- REFER TO PLUMBING DRAWINGS FOR CONDENSATE DRAIN PIPING CONNECTION.
- PROVIDE METAL FRAME AROUND STACK AT ROOF LEVEL FOR ROOF AND STACK SUPPORT. SEE 10M5.01.2.
- FRAME AROUND O.A. DUCT OPENING FOR SUPPORT OF METAL DECK AND DUCTWORK. REFER TO STRUCTURAL DRAWINGS.
- 6" HEIGHT BASERAIL UNIT.
- NOT USED.
- PROVIDE 18"x18" FOR ROUND DUCT OR 10"x10" FOR SQUARE DUCT ACCESS PANEL FOR GREASE DUCT MAINTENANCE. ACCESS PANELS SHALL BE OF THE SAME MATERIAL AND THICKNESS AS THE DUCT AND SHALL HAVE A GASKET RATED FOR 1500 F AND SHALL BE GREASE TIGHT. FASTENERS HINGES AND LATCHES SHALL BE OF THE SAME MATERIAL. TYPICAL ALL LOCATIONS SHOWN AND WHERE REQUIRED BY CODE. PROVIDE ACCESS PANEL WITHIN 3 FEET OF EXHAUST FAN AND AT CHANGES OF DIRECTION.
- ALL EXHAUST DUCTWORK TO BE WELDED STAINLESS STEEL AND SLOPE BACK TOWARDS THE GRILLES AT 1% SLOPE.
- TYPE 1 KITCHEN EXHAUST HOOD DUCT WITH 3M FIRE BARRIER DUCT WRAP 615+.
- RELOCATE EXISTING FIRE PROTECTION PIPING TO ACCOMMODATE NEW O.A. DUCTWORK. REFER TO FP2.40.2.
- STACKED HW AND CHW PIPING SUPPORTED ON UNISTRUT ANCHORED TO THE ATTIC FLOOR SLAB. REFER TO M5.03.2.
- CONTRACTOR TO VERIFY LOCATION OF ALL (E)EQUIPMENT AND COMPONENTS SHOWN.
- PROVIDE FIRE SMOKE DAMPER THROUGH RATED WALL.
- SLOPE UP O.A. DUCTWORK HW AND CHW PIPING FOLLOWING ROOF SLOPE AND SUPPORTED FROM ROOF STRUCTURE. REFER TO M5.03.2 FOR PIPING SUPPORT AND M5.01.2 FOR COIL PIPING CONNECTION DETAILS.
- PROVIDE TRANSITION TO 20" ROUND IN SHAFT.
- IF REQUIRED, REMOVE AND RE-INSTALL SECTION OF (E) DUCTWORK ABOVE 1ST FLOOR CEILING TO CREATE TRAVEL PATH FOR INSTALLATION OF NEW AHU-9. RE-BALANCE CFM AIRFLOW IN DUCTWORK TO (E)CONDITION.
- PROVIDE FSD AT BOTTOM OF RATED SHAFT. REFER TO 4M3.01.2.
- MOUNT AND ANCHOR 6" (H) UNIT BASE RAIL TO CONCRETE FLOOR USING MASON NEOPRENE WAFFLE PADS SUPER WM PER MASON INDUSTRIES' APPROVED DETAIL.
- MOUNTED ON FREE STANDING ISOLATORS WIT SEISMIC RESTRAINT.
- APPROXIMATE LOCATION OF VAV BOX SERVING LEARNING COMMONS ROOM 101.
- APPROXIMATE LOCATION OF VAV BOX SERVING OFFICE ROOM 103.

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ISSUE DATE **08/22/2023**

NOLL & TAM JOB NUMBER **21630**

REVISIONS

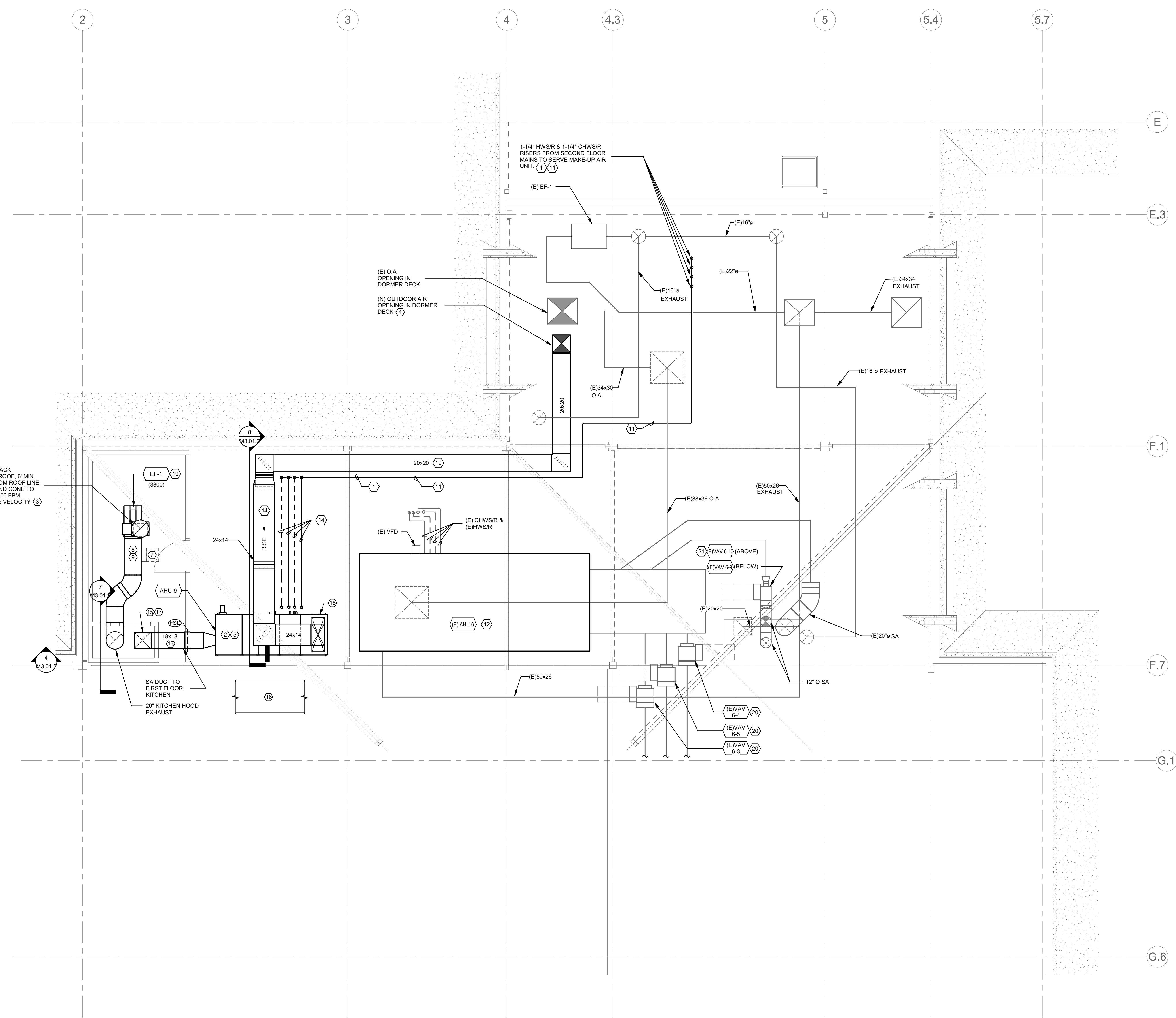
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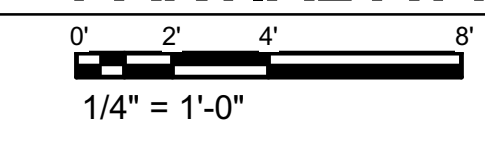
ATTIC PLAN - WEST - MECHANICAL

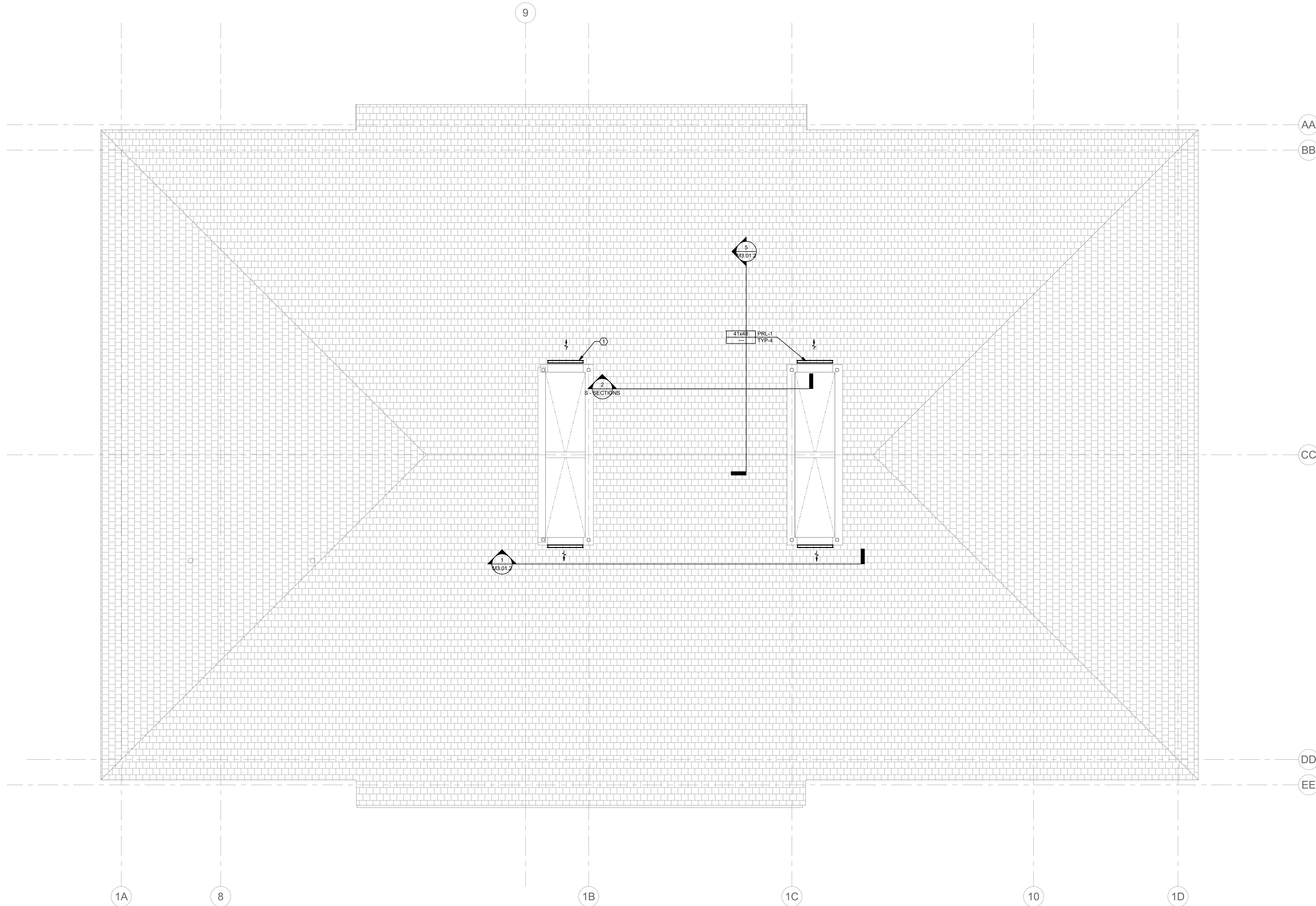
SHEET NUMBER

M2.40.2

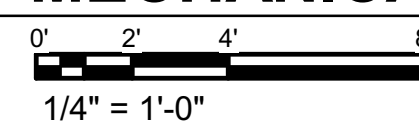


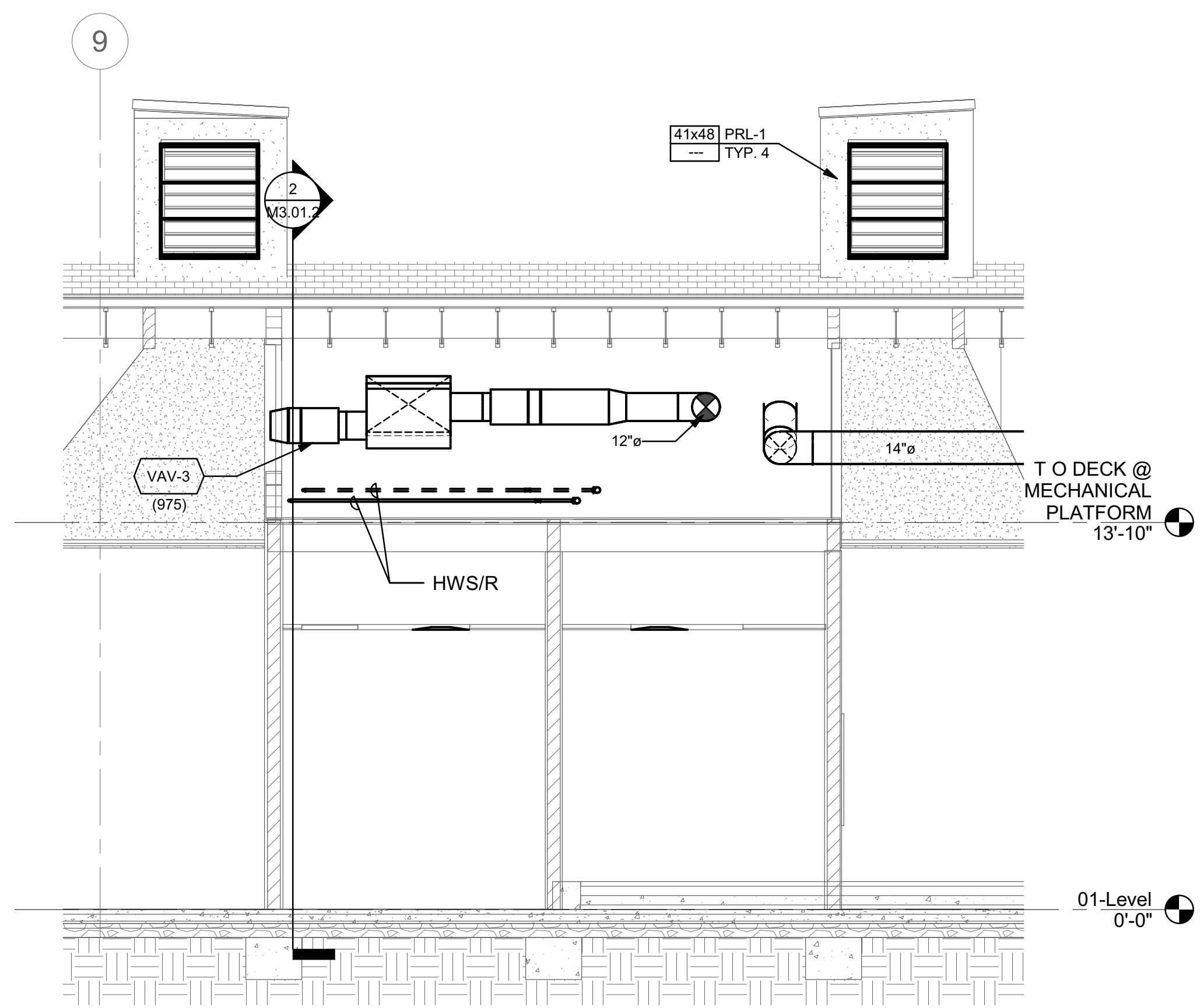
1 PARTIAL ATTIC PLAN PLAN - WEST - MECHANICAL



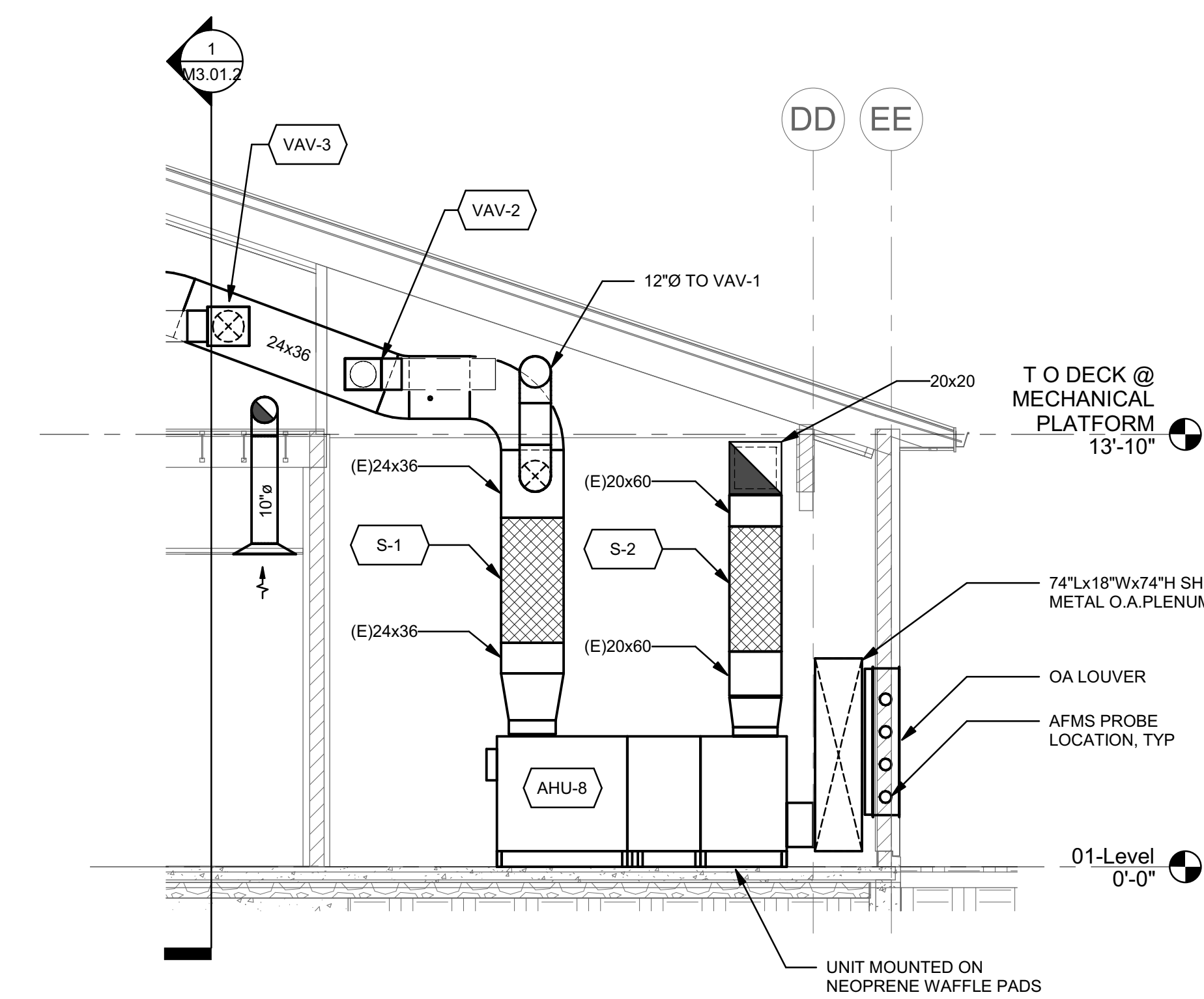
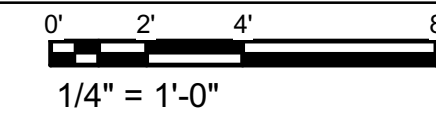


1 MECHANICAL LIGHTWELL LEVEL

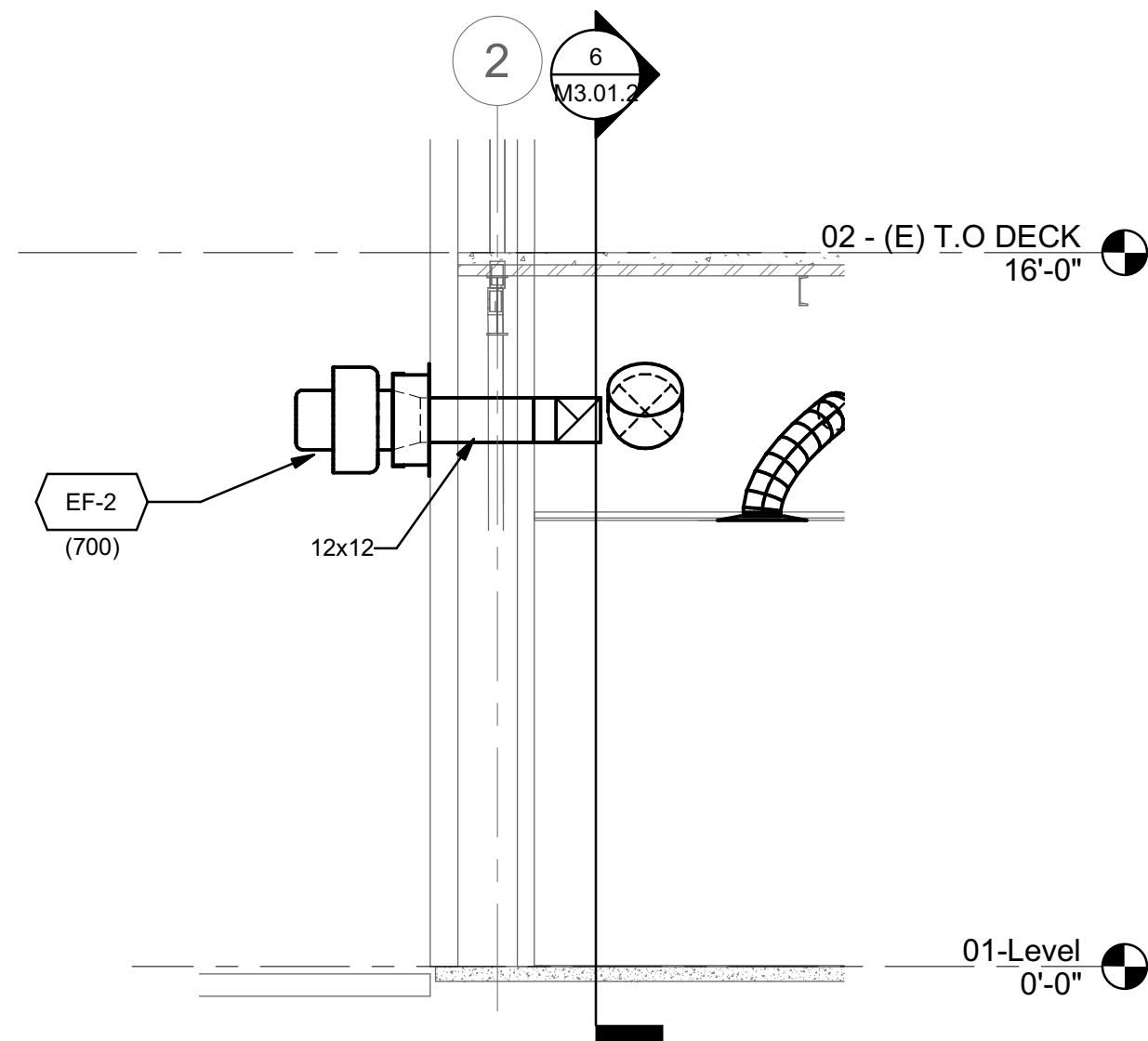
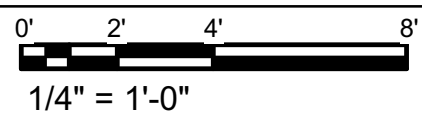




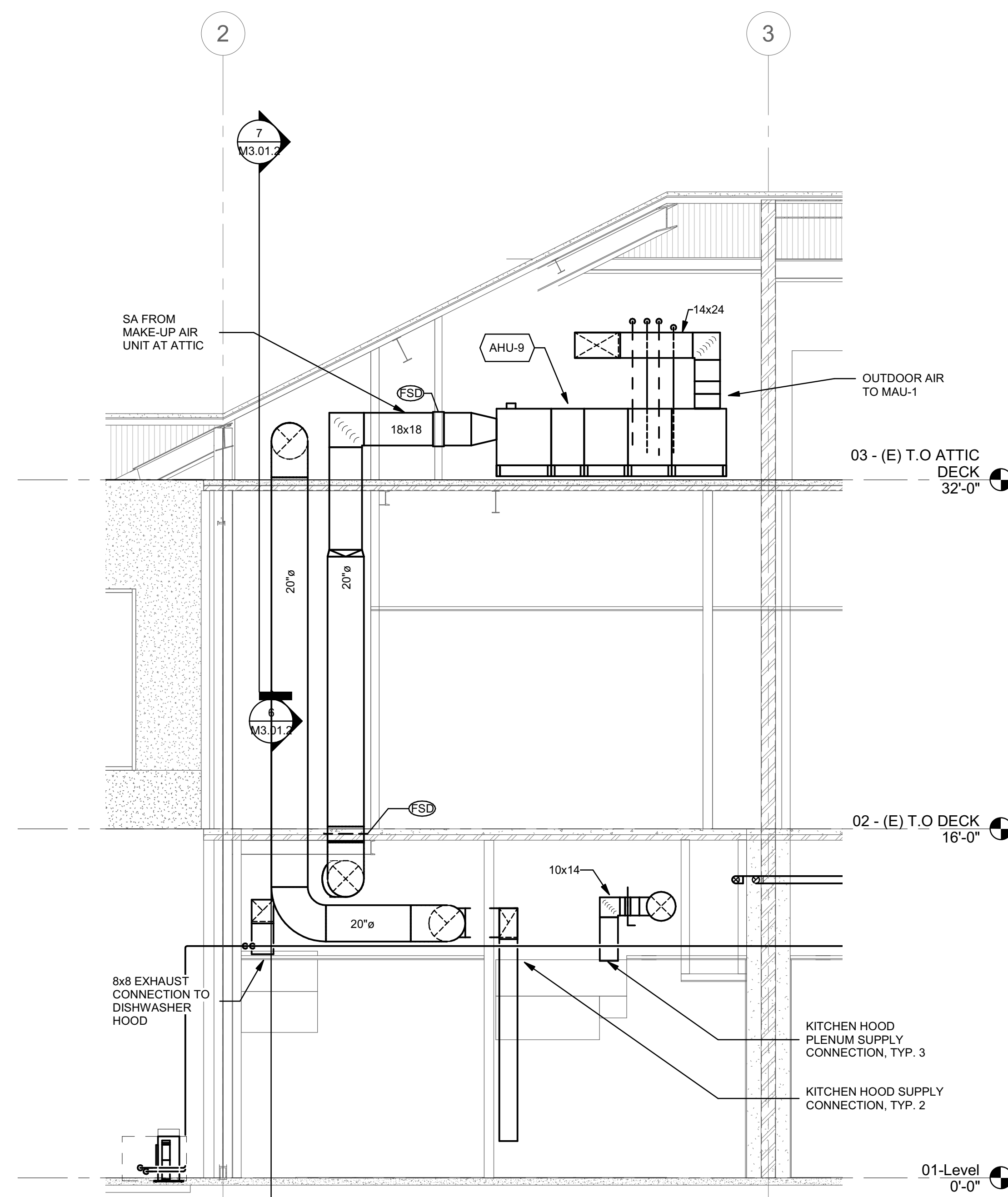
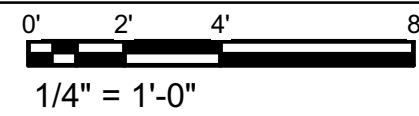
1 SECTION - LIBRARY - MECHANICAL



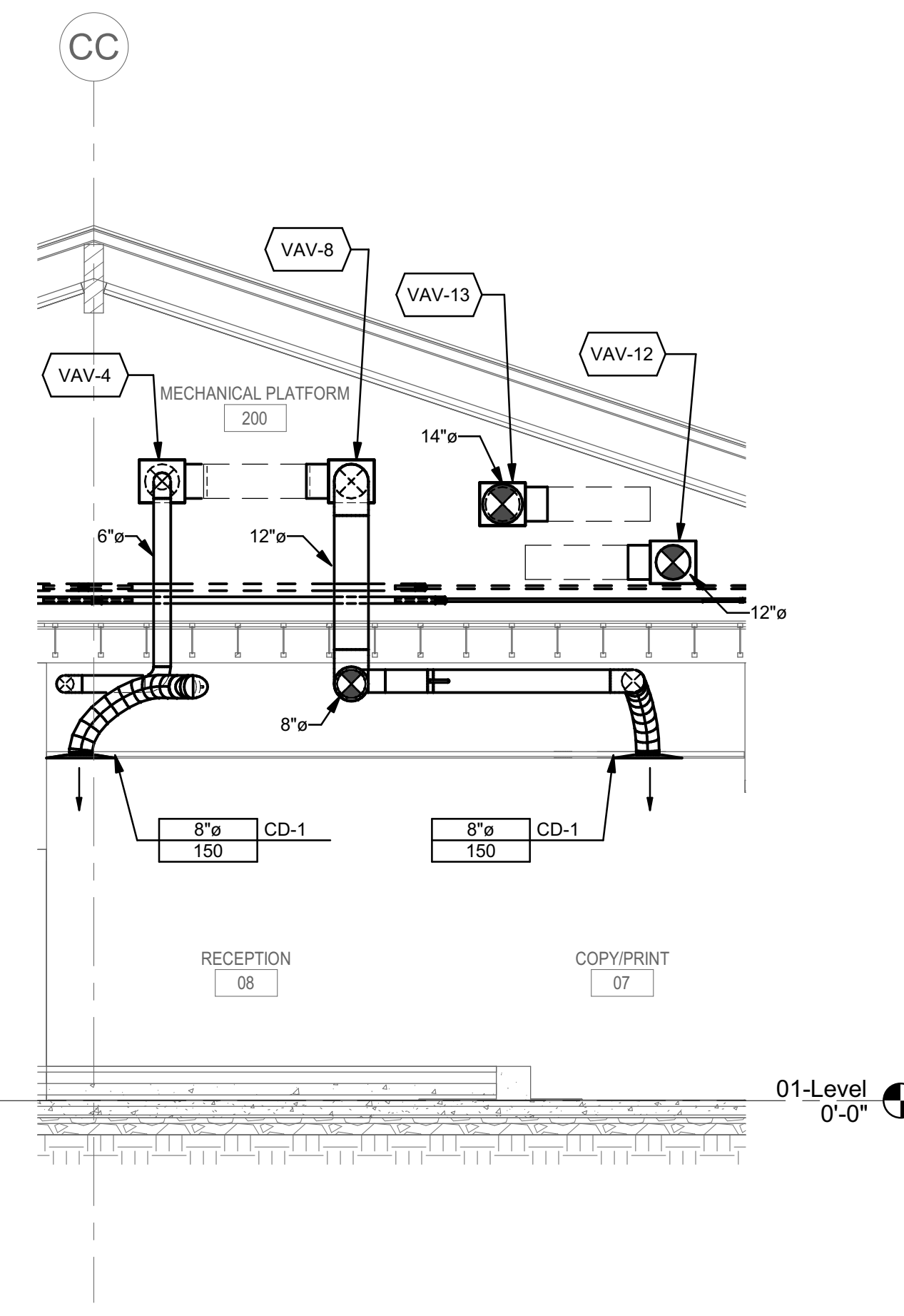
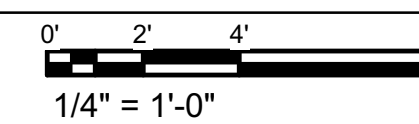
2 SECTION - LIBRARY - MECHANICAL ROOM



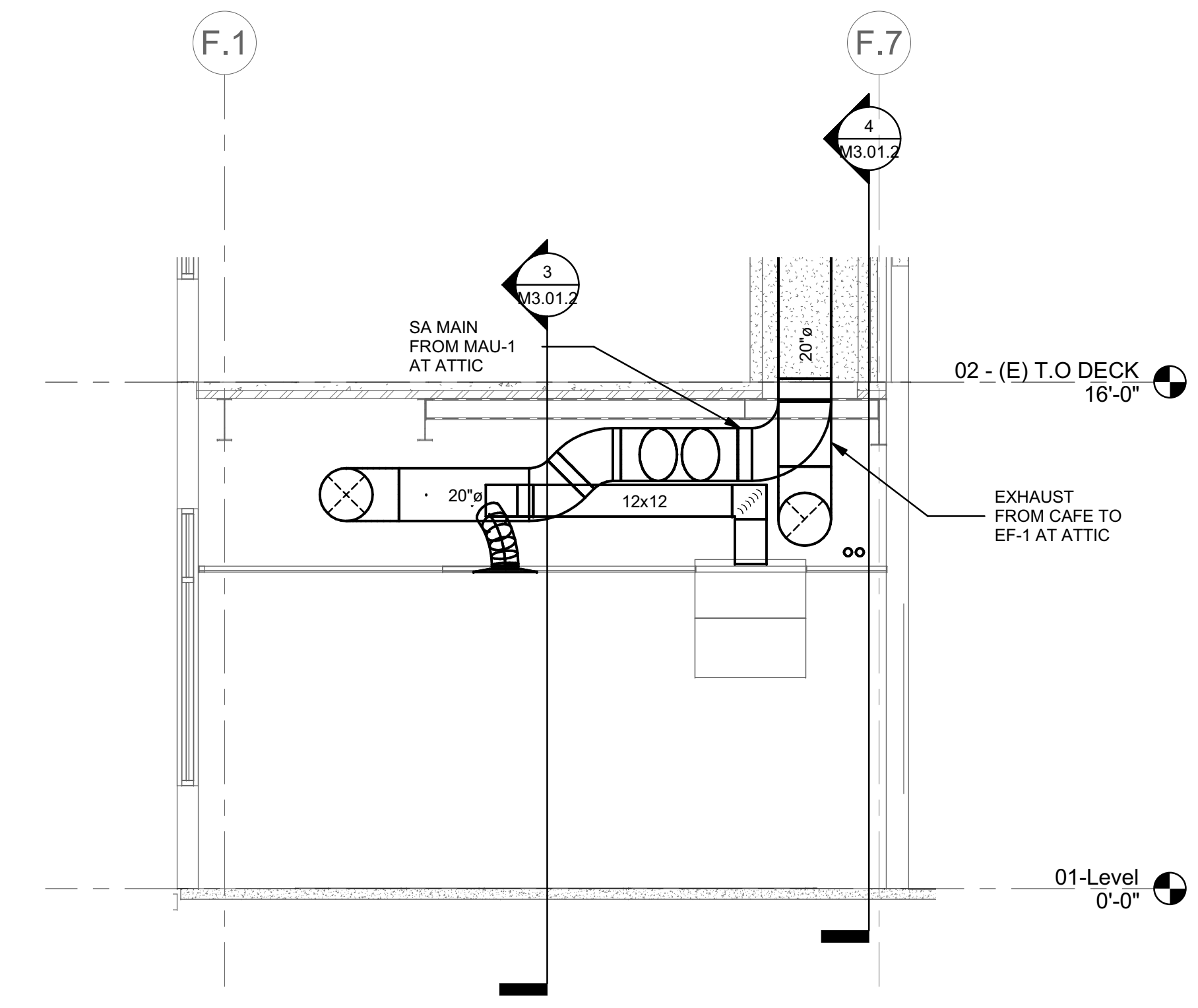
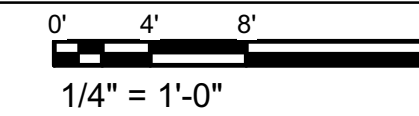
3 SECTION AT EF-2



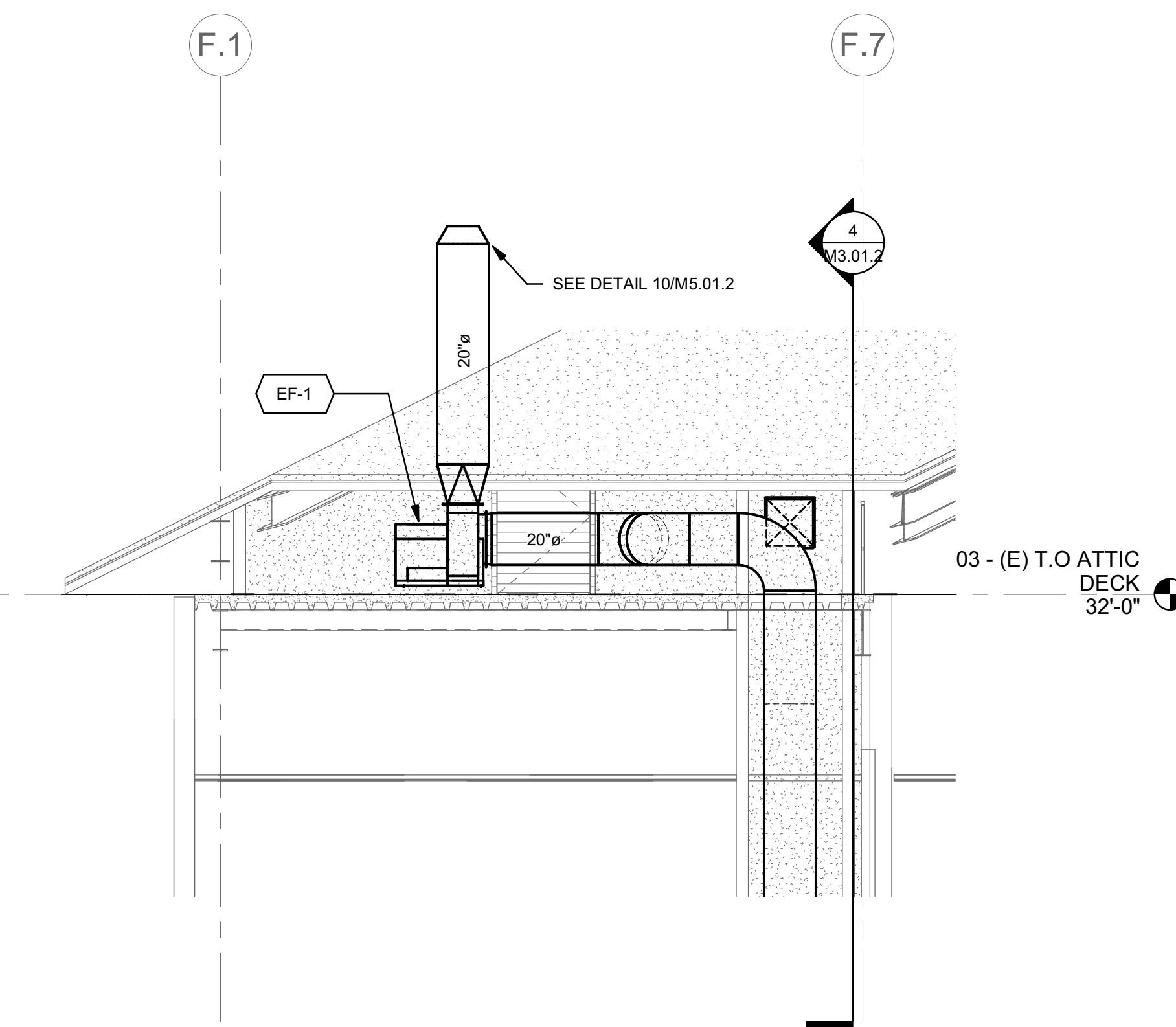
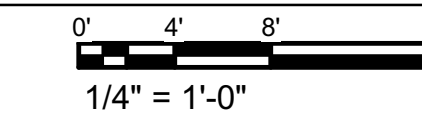
4 SECTION - SHAFT AT CAFE



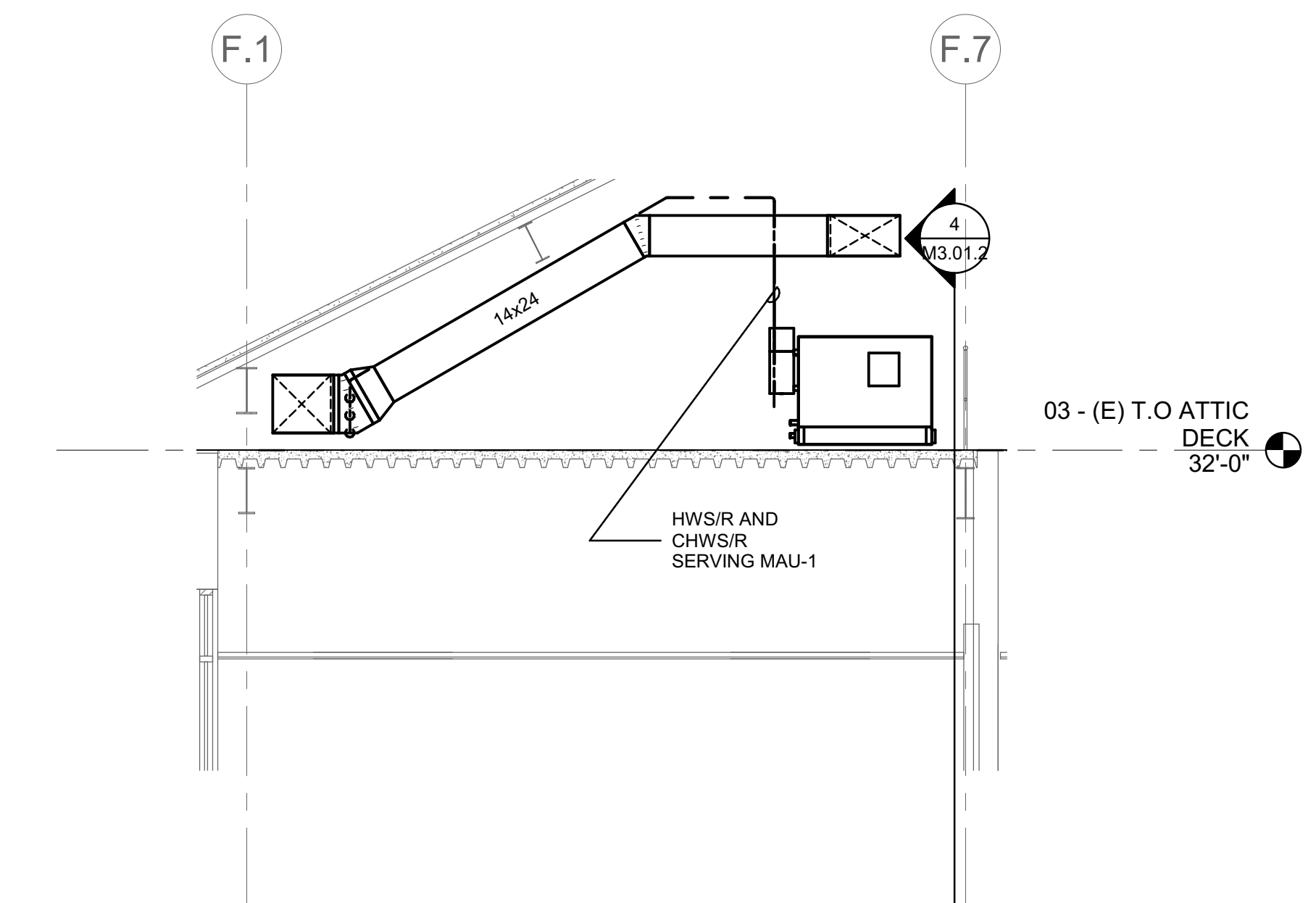
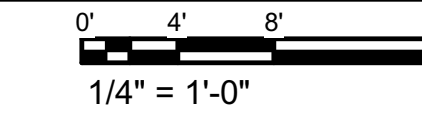
5 SECTION AT RECEPTION



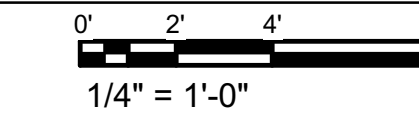
6 SECTION - SUPPLY AND EXHAUST DUCT AT CAFE

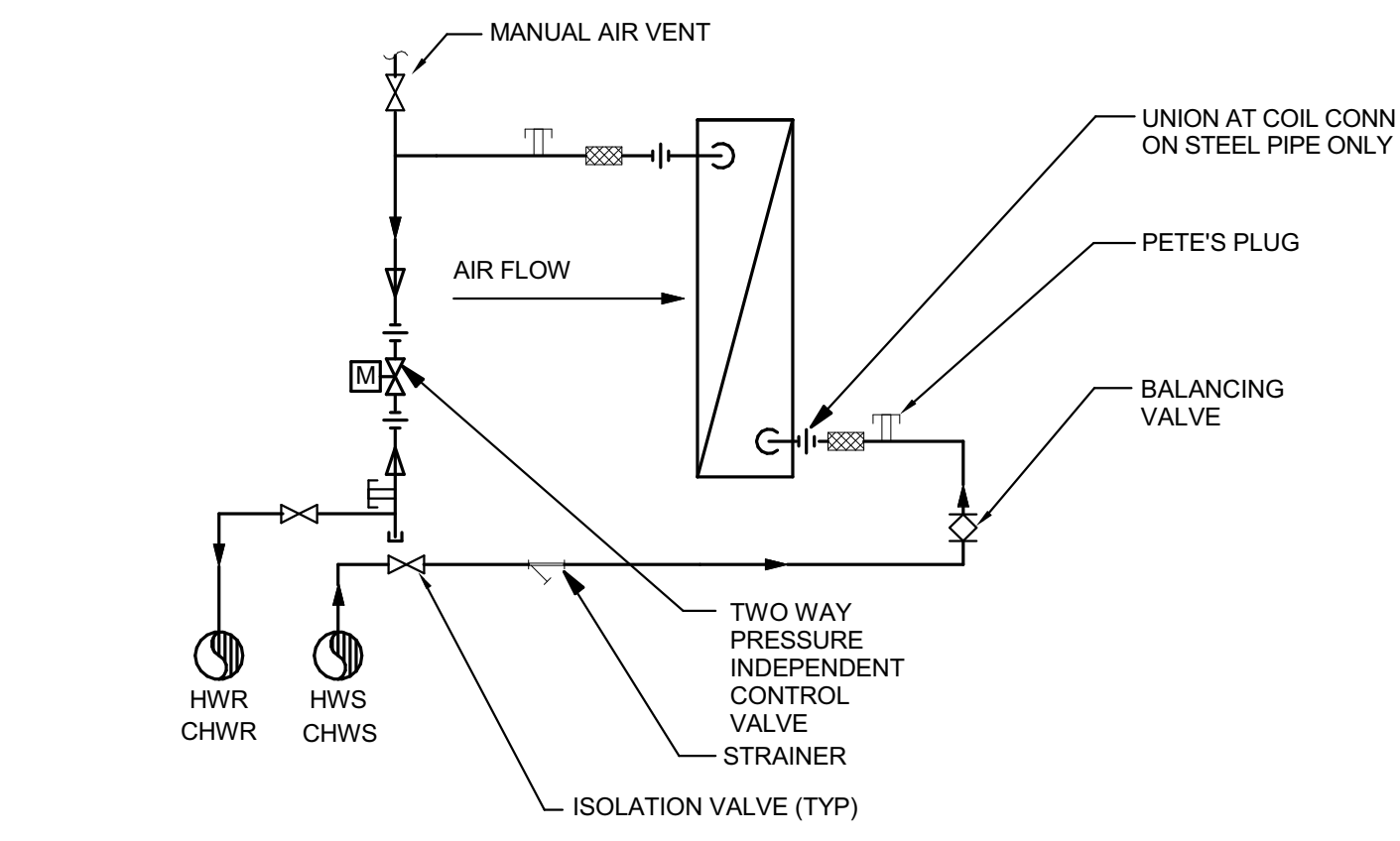


7 EHHAUST FAN @ ATTIC CAFE

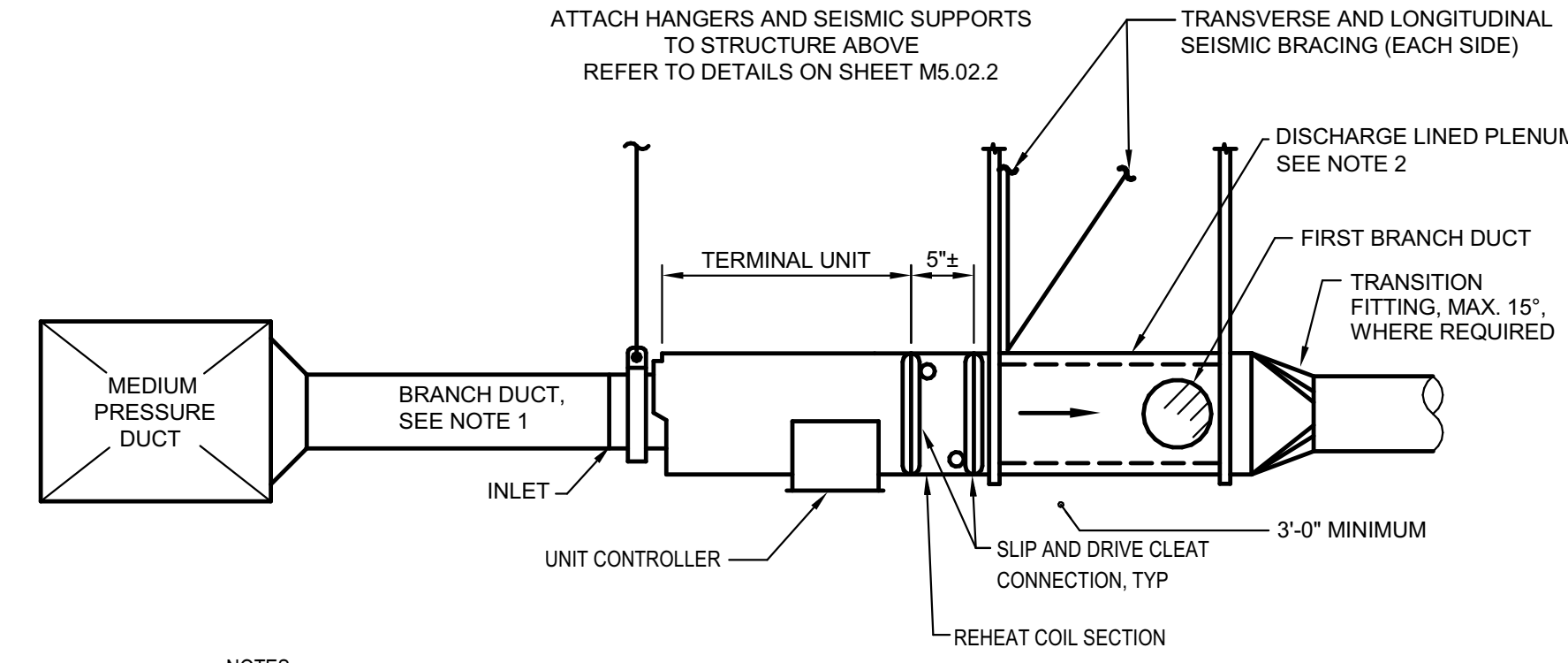


8 SECTION 2 AT MAU-1 IN ATTIC-CAFE



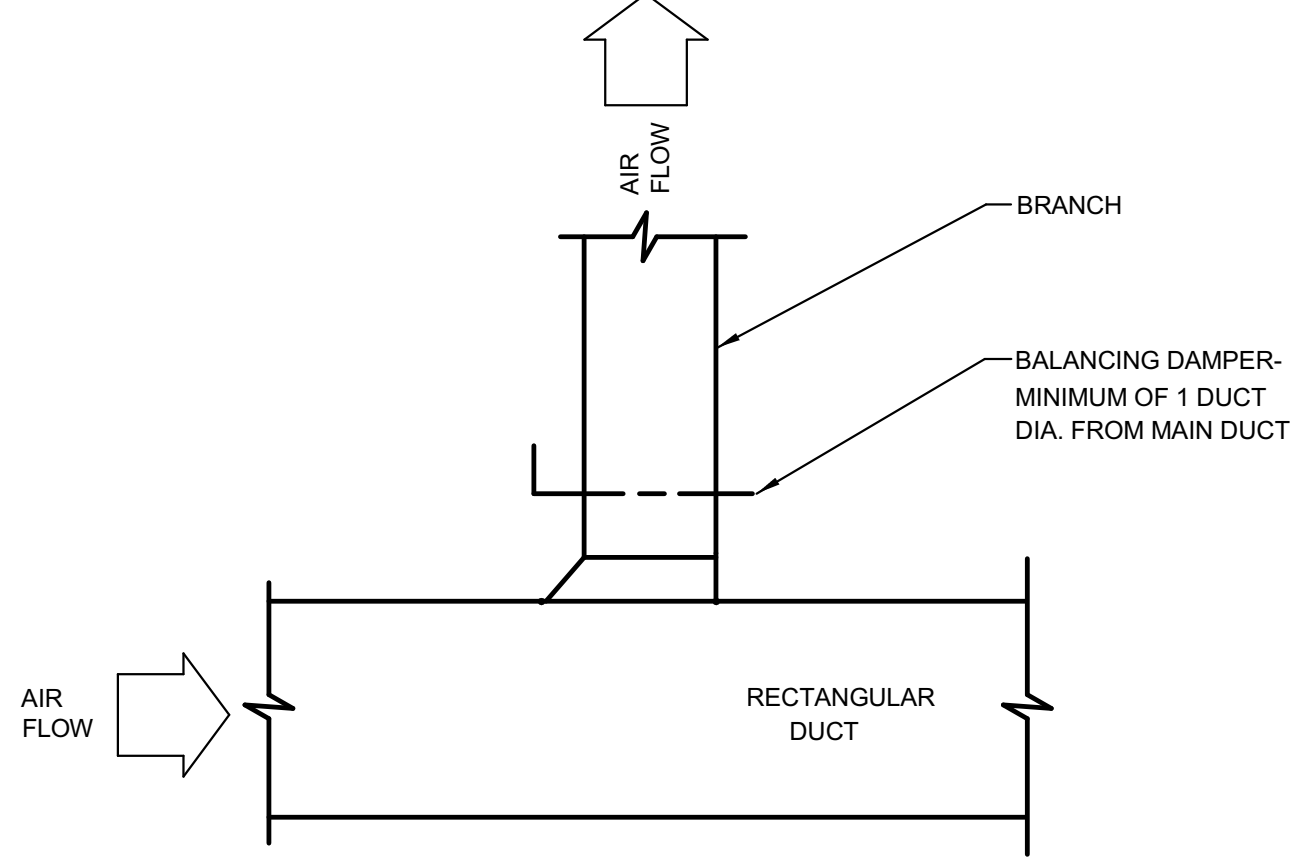


1 VAV COIL UNIT PIPING DIAGRAM
NO SCALE M-PIPING DIAGRAMS 31-05

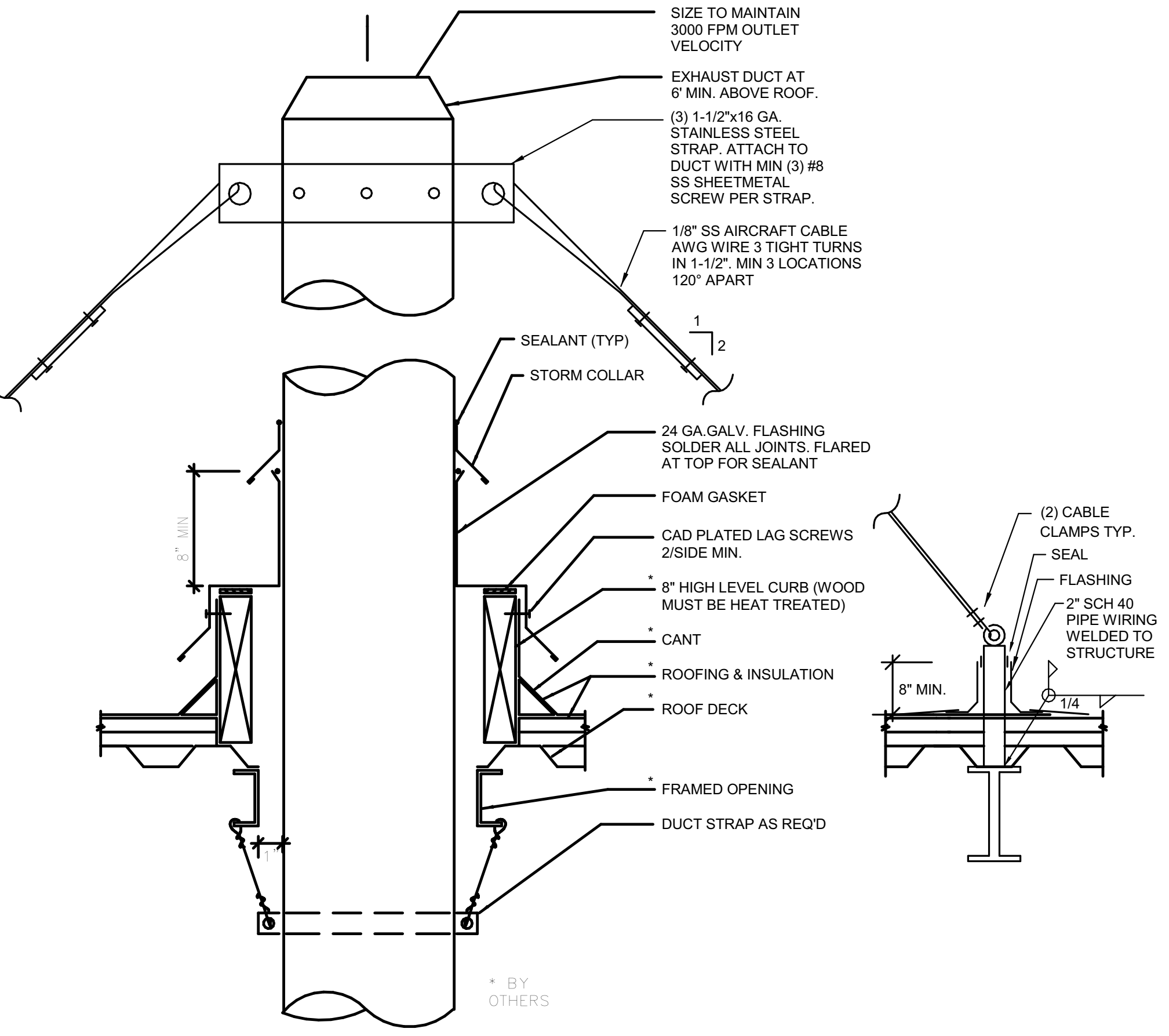


- NOTES:
- BRANCH DUCT SIZE TO MATCH UNIT INLET CONNECTION. FOR BRANCH DUCTS OVER FIVE FEET IN LENGTH, INCREASE BRANCH DUCT ONE SIZE AND PROVIDE TRANSITION IMMEDIATELY UPSTREAM OF MINIMUM STRAIGHT DUCT RUN.
 - MINIMUM 5'-0" LONG LINED PLENUM EQUAL TO TERMINAL BOX OUTLET SIZE. PROVIDE WITH MYLAR LINING FOR OSHPD PROJECTS.
 - FIRST BRANCH DUCT DOWNSTREAM OF TERMINAL MUST BE A MINIMUM OF 3 FEET DOWNSTREAM OF TERMINAL UNIT.

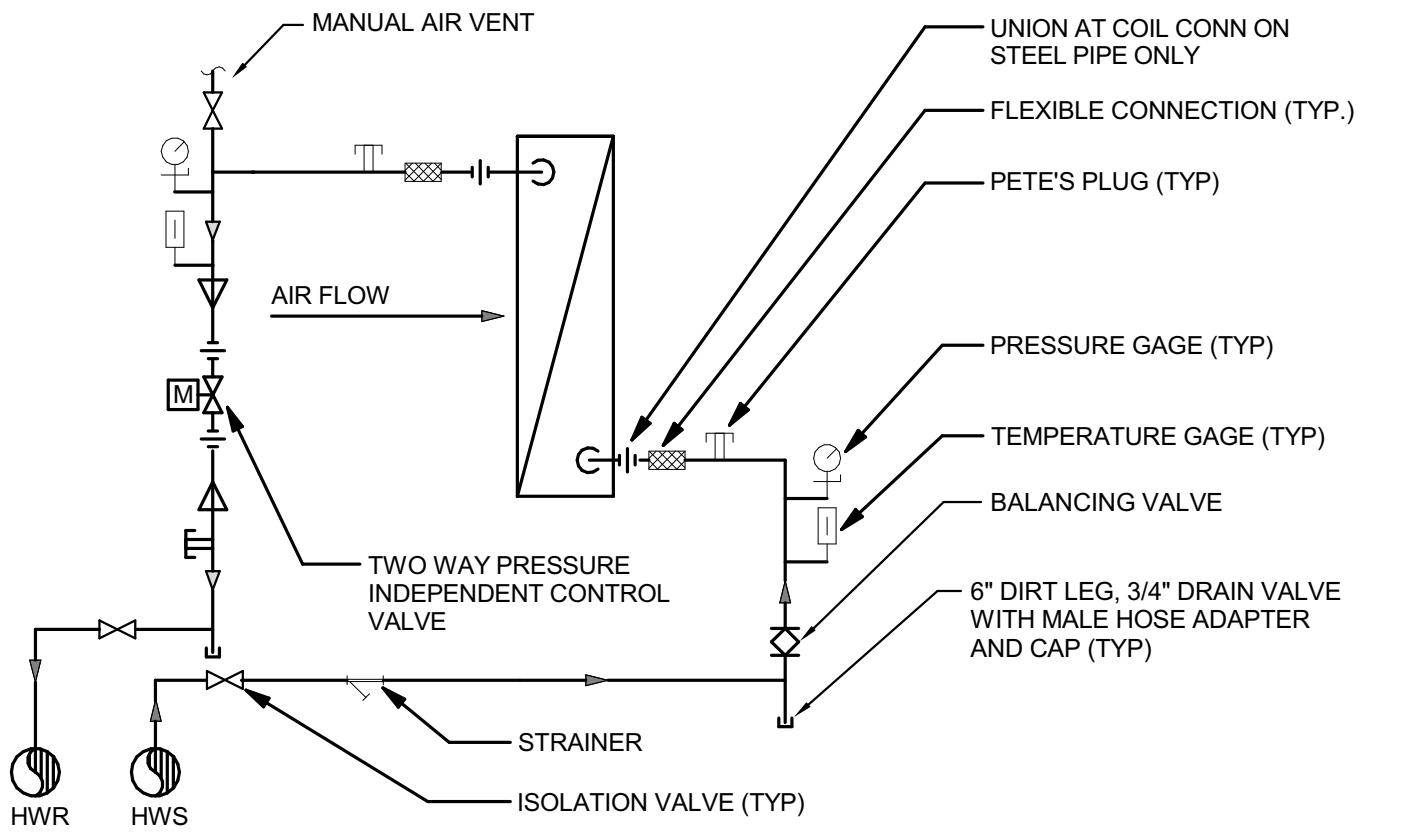
4 TYPICAL TERMINAL UNIT DUCTING (VAV OR CAV)
NO SCALE M-Duct 1-06



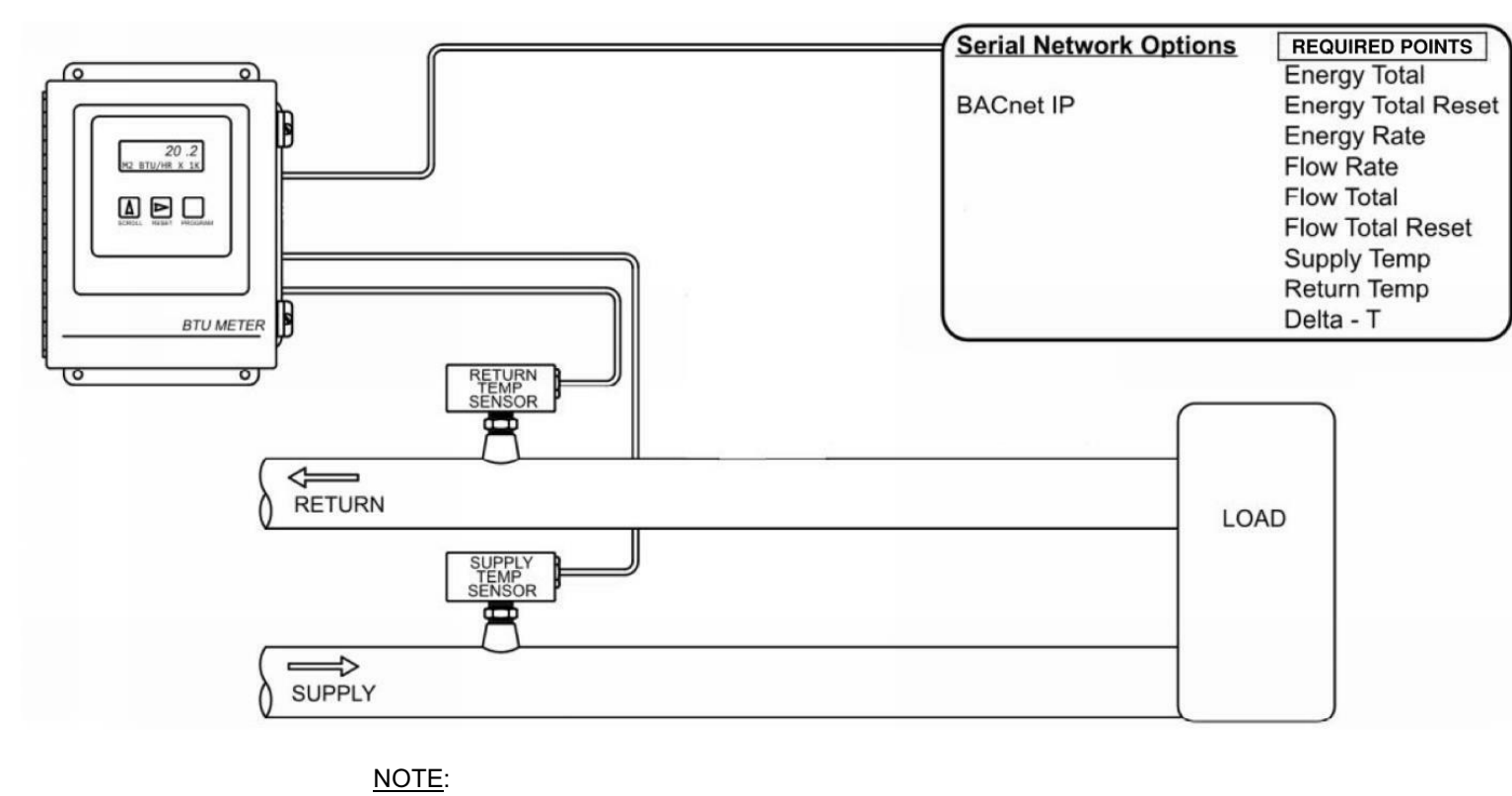
7 RECTANGULAR SUPPLY BRANCH/LOW PRESSURE
NO SCALE M-DUCT 3-07



10 EXHAUST DUCT THRU ROOF
NO SCALE

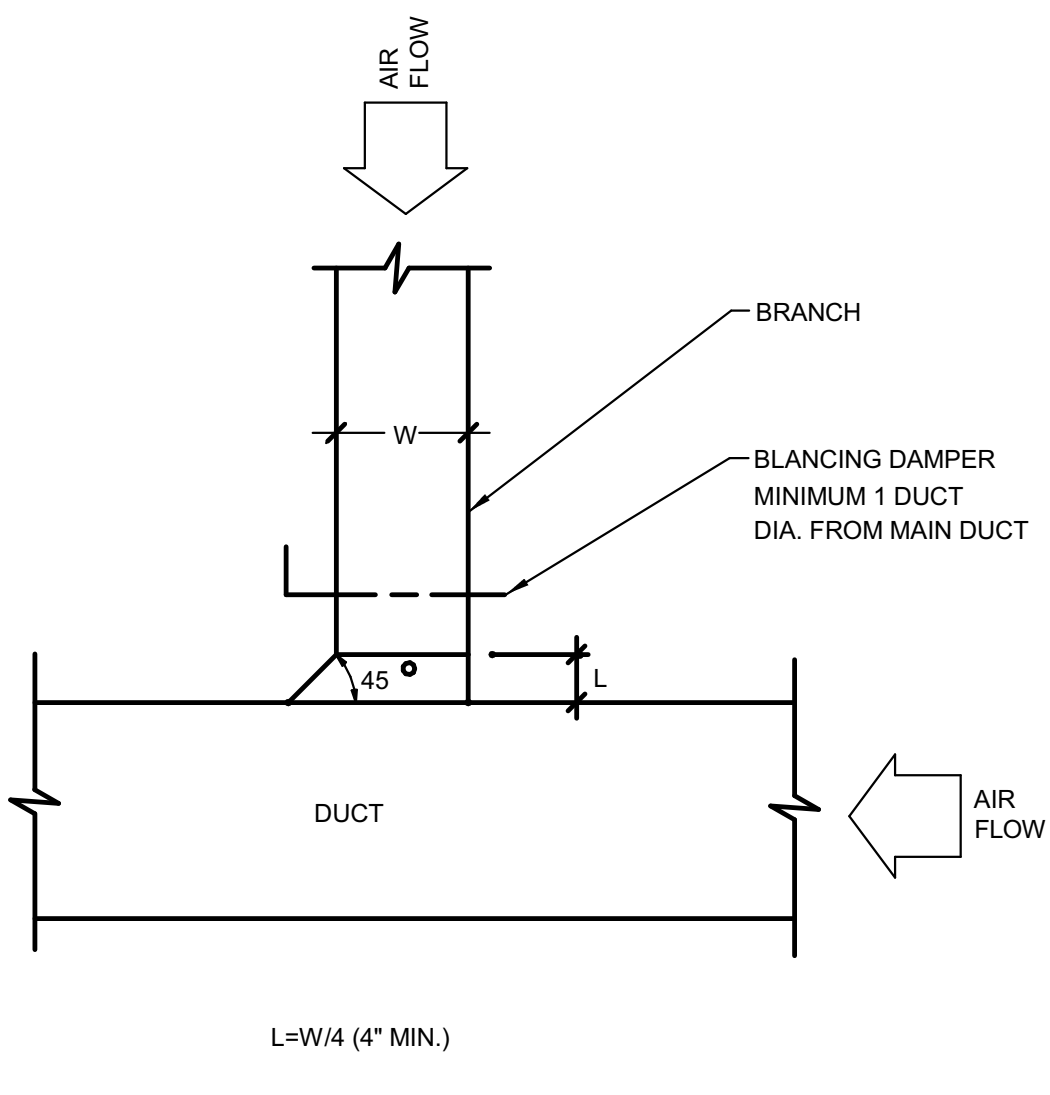


2 SINGLE COIL PIPING DIAGRAM
NO SCALE M-PIPING DIAGRAMS 31-03

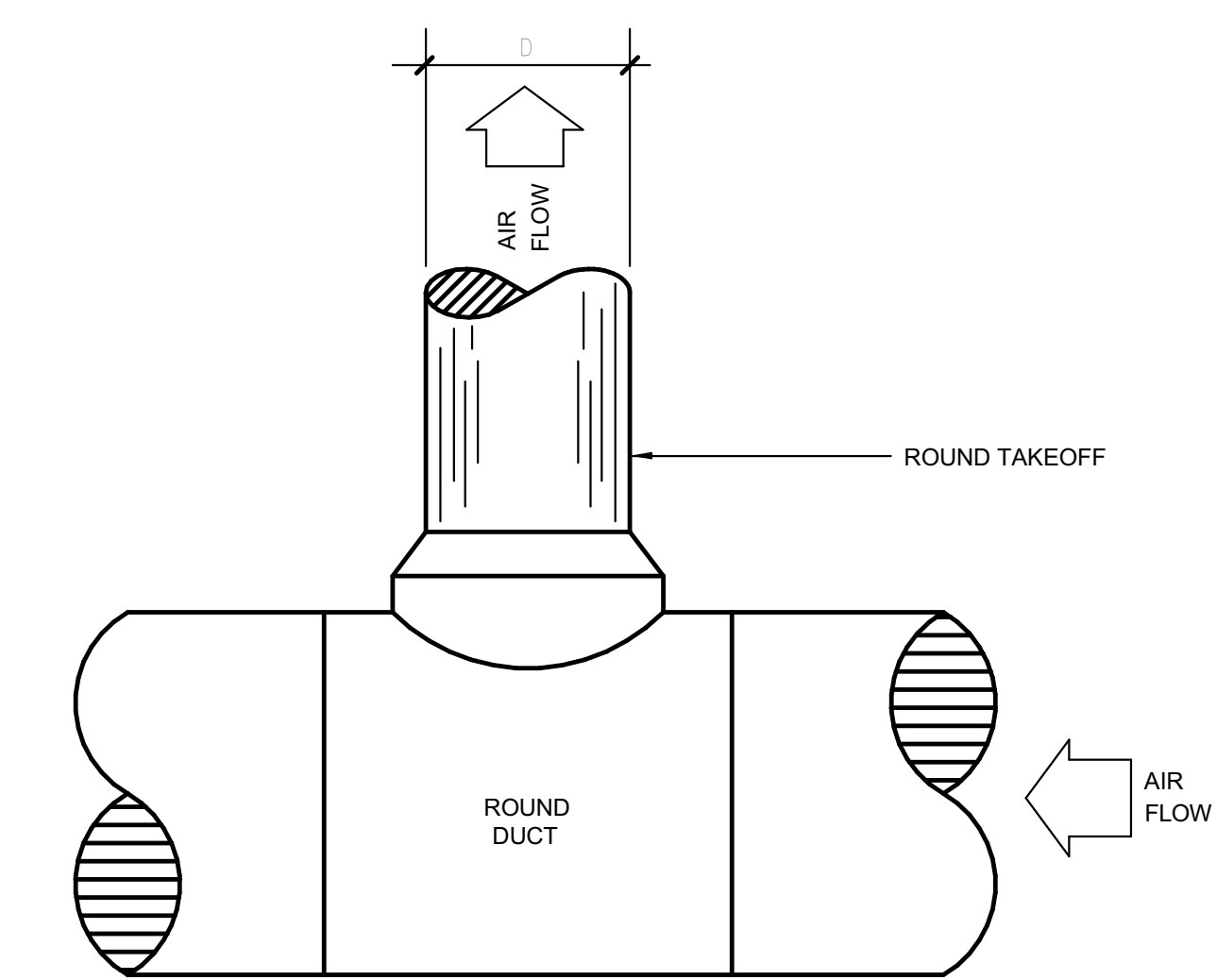


- NOTE:
- INSTALL IN LLRC MECHANICAL ROOM PER MANUFACTURER INSTALLATION INSTRUCTIONS.
 - PROVIDE METER FOR CHW AND HW.
 - PROVIDE METERING DEVICES WITH INTERFACE TO BUILDING AUTOMATION SYSTEM.

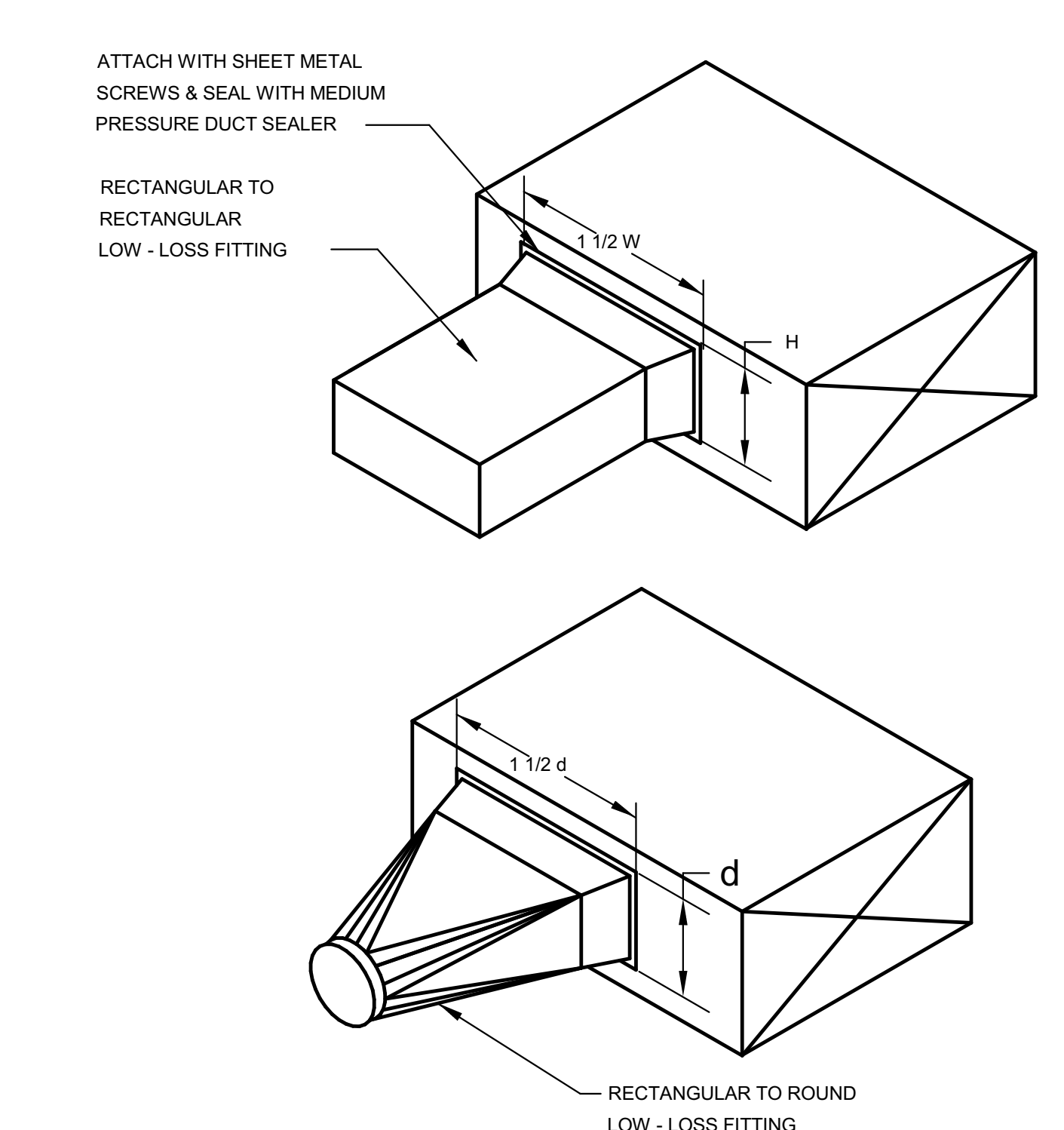
5 CHW & HW BTU METER SCHEMATIC
NO SCALE



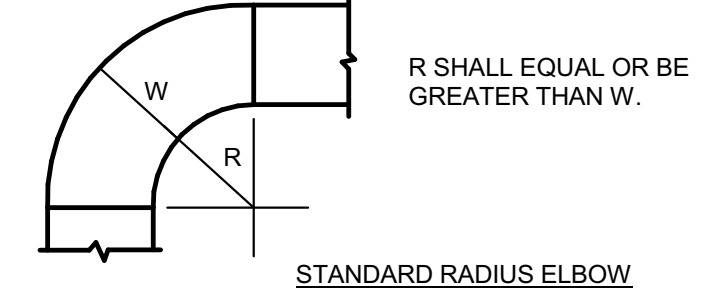
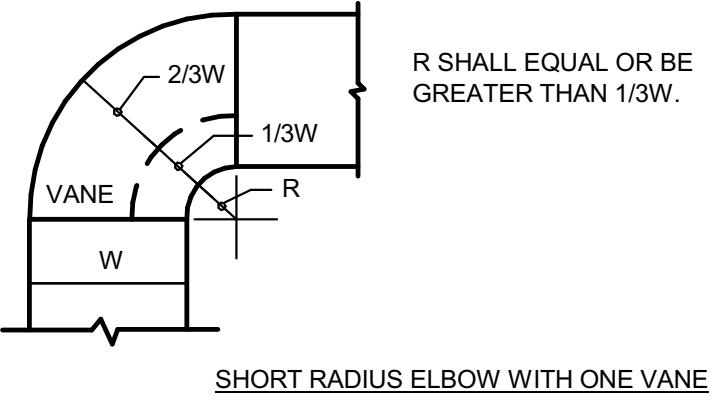
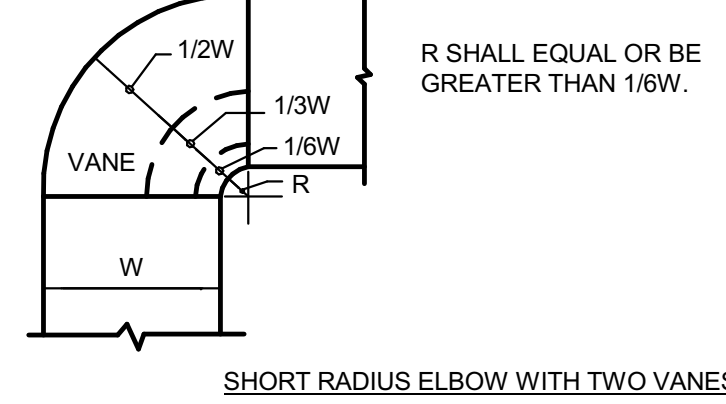
8 EXHAUST RECTANGULAR BRANCH
NO SCALE M-DUCT 3-08



11 MEDIUM PRESSURE DUCT TAP - CONICAL TEE
NO SCALE M-DUCT 3-11

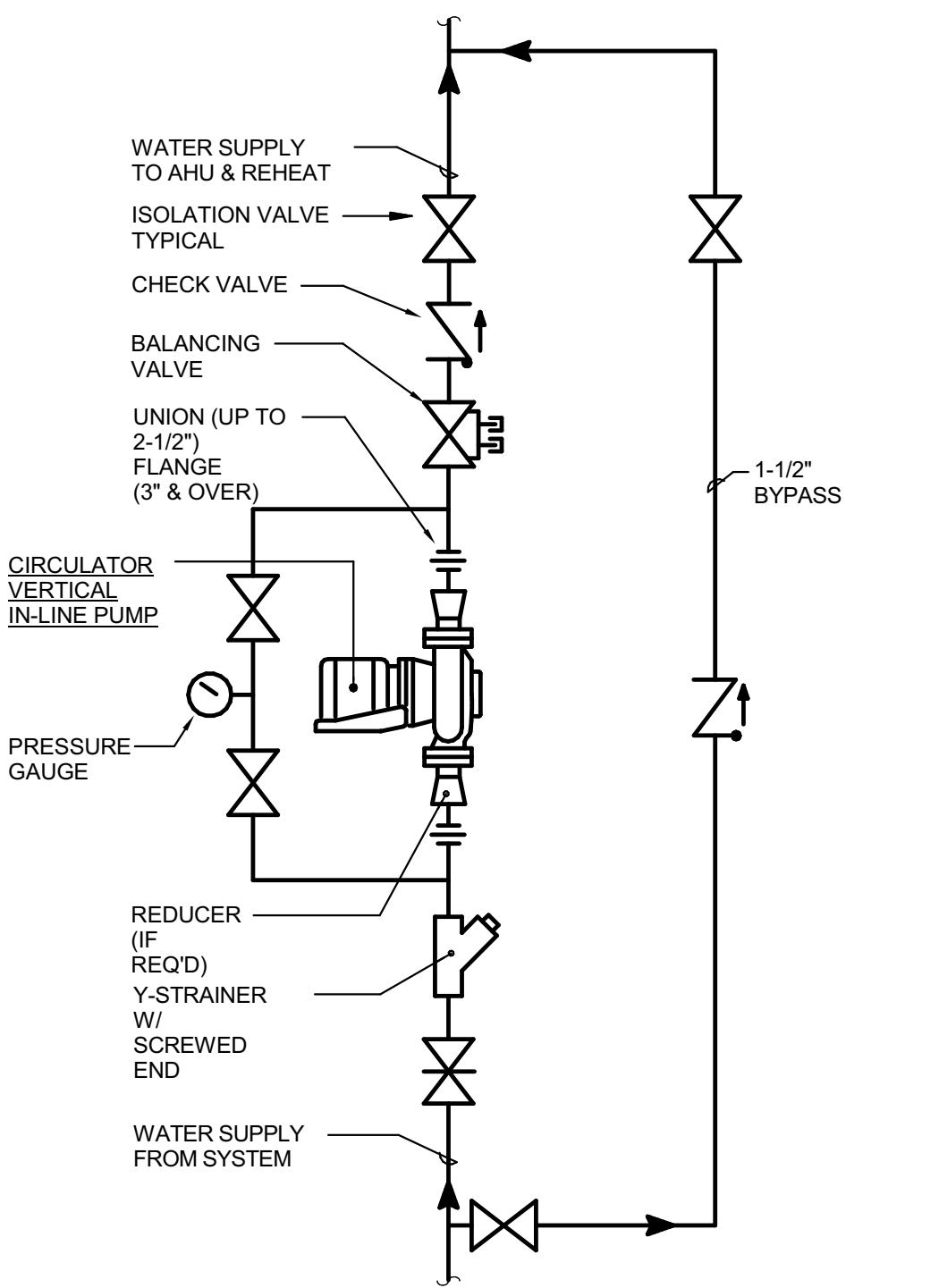


3 LOW-LOSS BRANCH DUCT CONNECTION
NO SCALE M-Duct 1-11

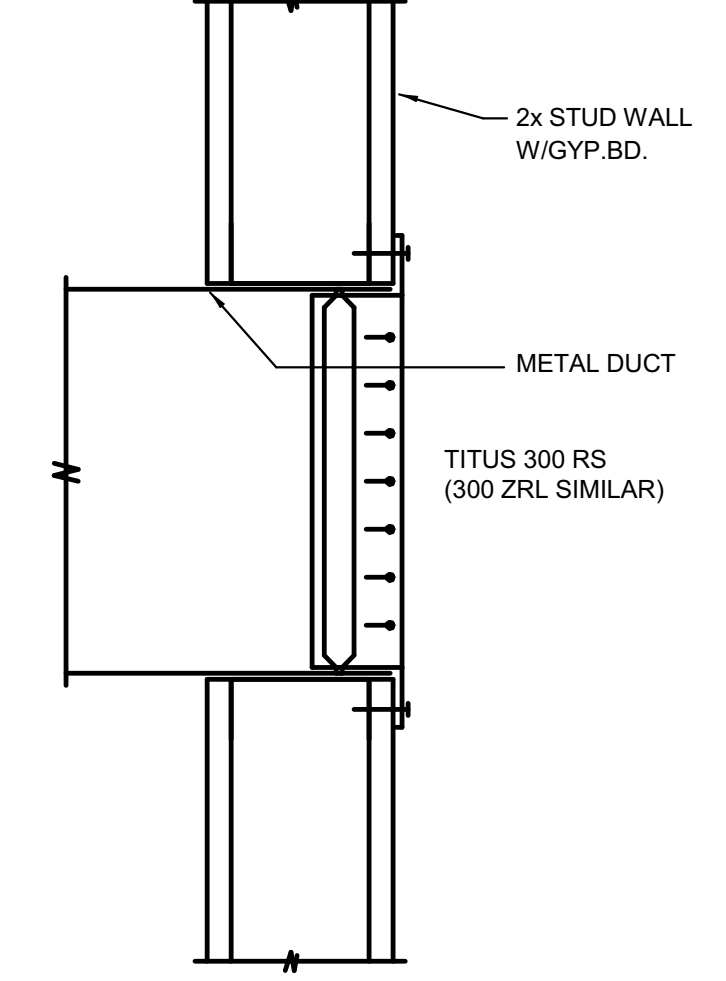


- NOTES:
- THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
 - ALL STANDARD RADIUS ELBOWS SHOWN ON FLOOR PLANS MAY BE MADE SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.
- DESIGNER'S NOTE:
- DO NOT SHOW MITERED ELBOWS AND MITERED OFFSETS (TRANSITIONS) GREATER THAN 15 DEGREES ON DRAWINGS.

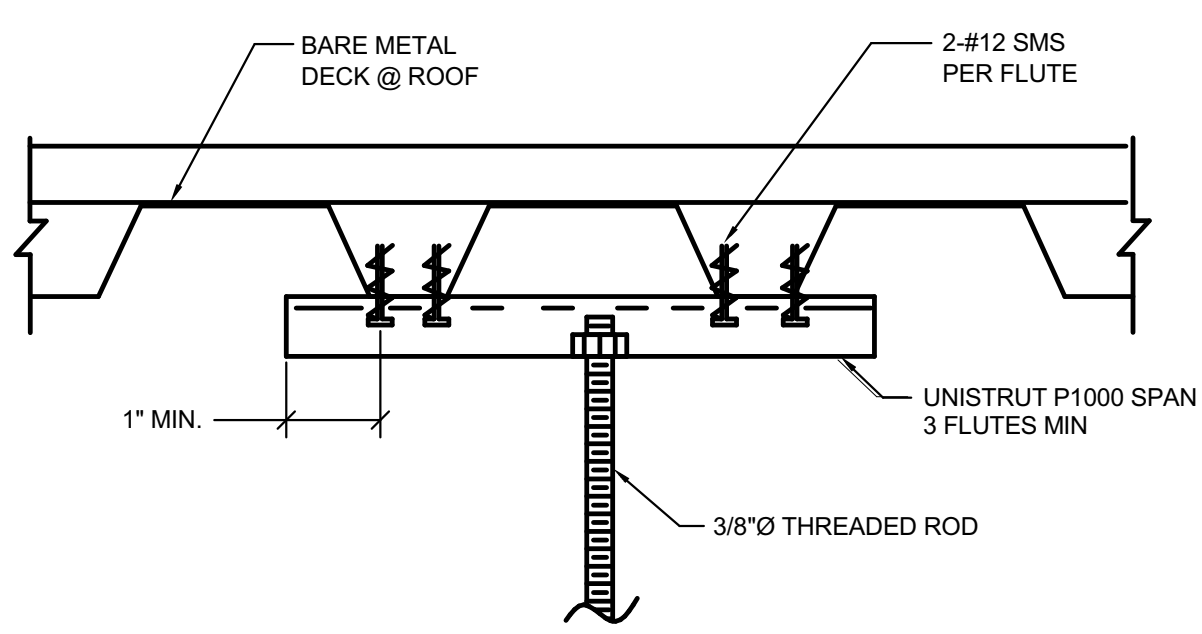
6 DUCTWORK RADIUS ELBOWS
NO SCALE M-DUCT 6-12



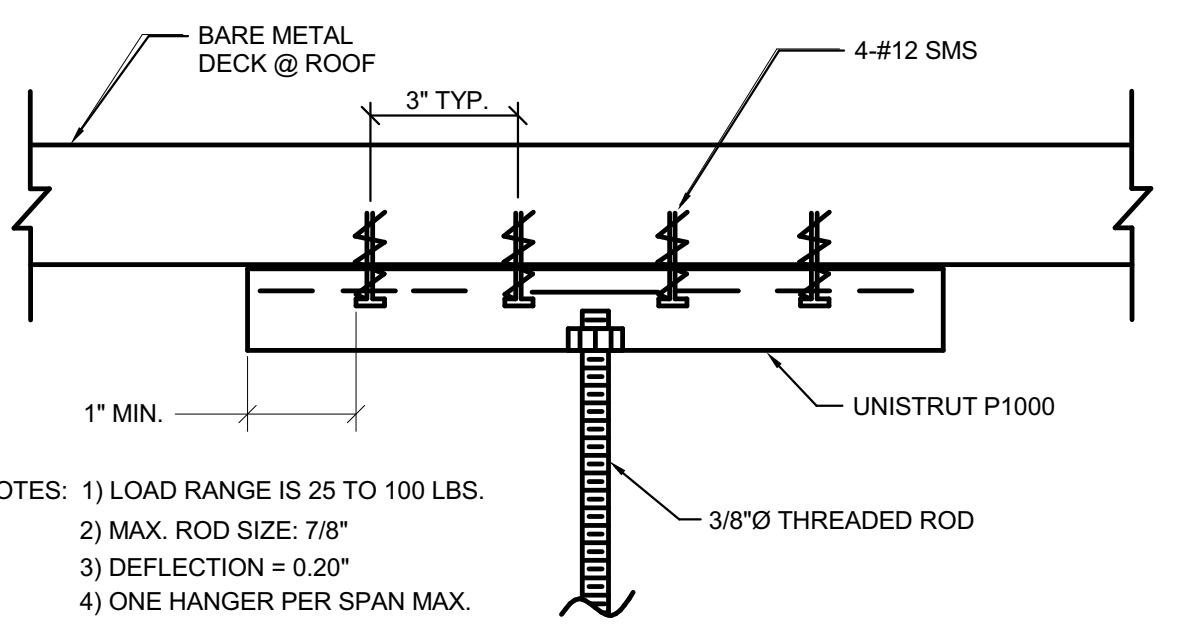
9 CIRCULATOR VERTICAL IN-LINE PUMP PIPING DIAGRAM
NO SCALE



12 GRILLE ON STUD WALL
NO SCALE M-DIFFUSER 3-10



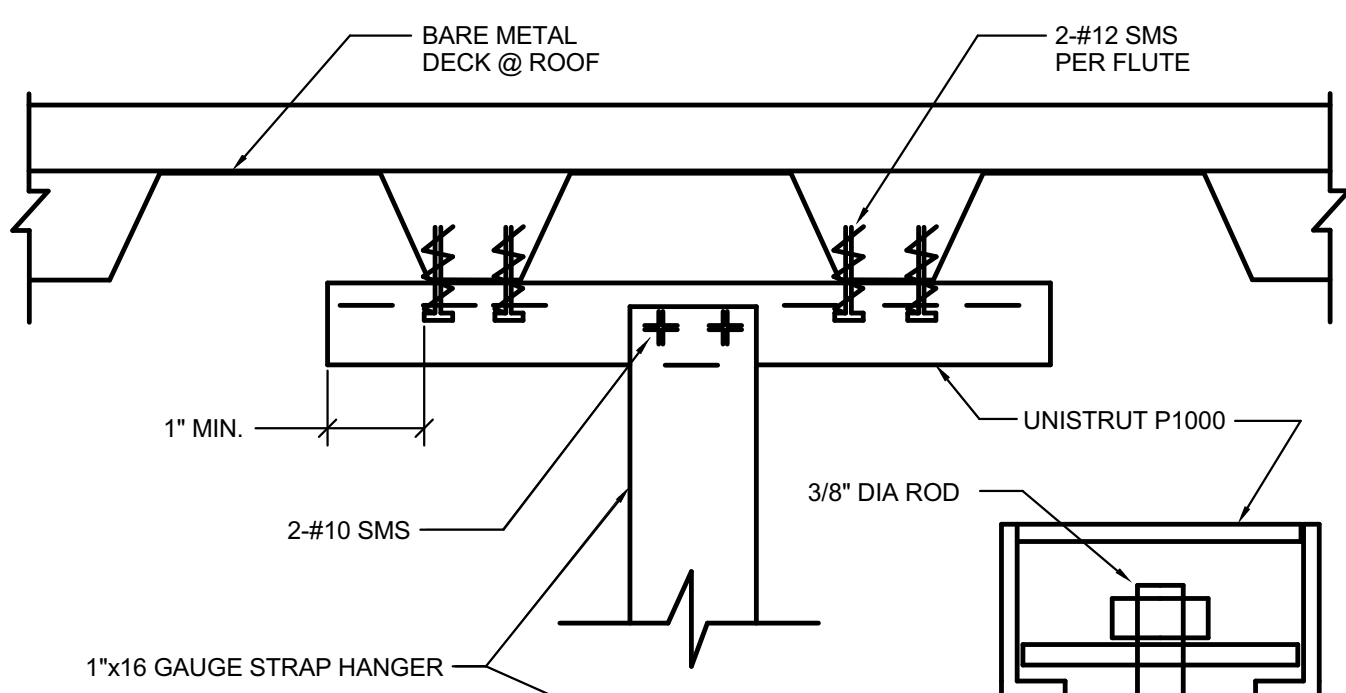
1a ROD HANGER AT DECK PERPENDICULAR CONDITION AND PARALLEL



1b ROD HANGER AT DECK PARALLEL CONDITION

1 ROD HANGER DETAIL

NO SCALE M-MOUNTING 13-02



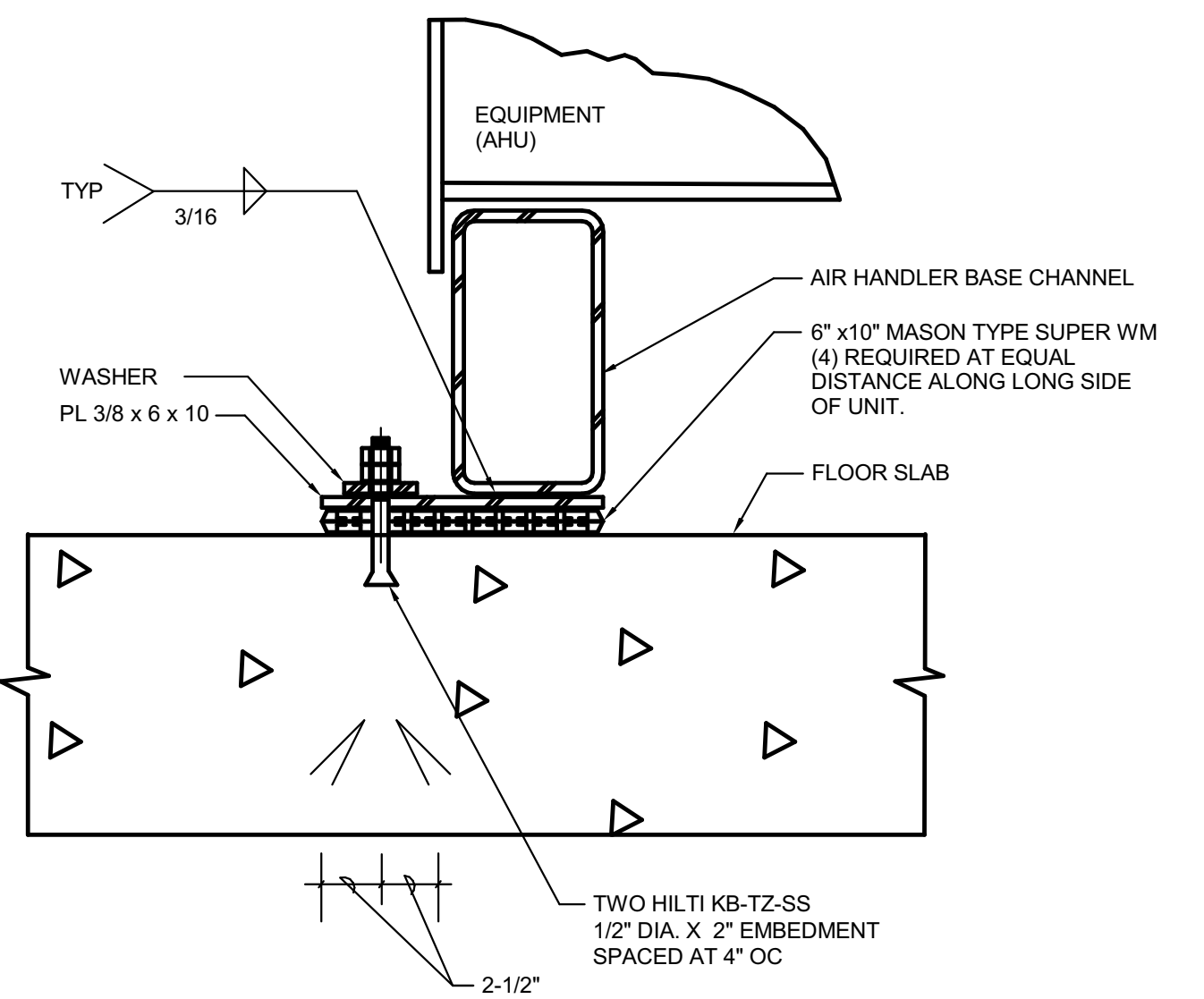
5a STRAP HANGER AT DECK PERPENDICULAR CONDITION AND PARALLEL

- NOTES: 1) LOAD RANGE IS 25 TO 100 LBS.
2) MAX. STRAP = 1" X 16 GAUGE
3) DEFLECTION = 0.50"
4) ONE HANGER PER SPAN MAX.

PARALLEL

5 STRAP HANGER DETAIL

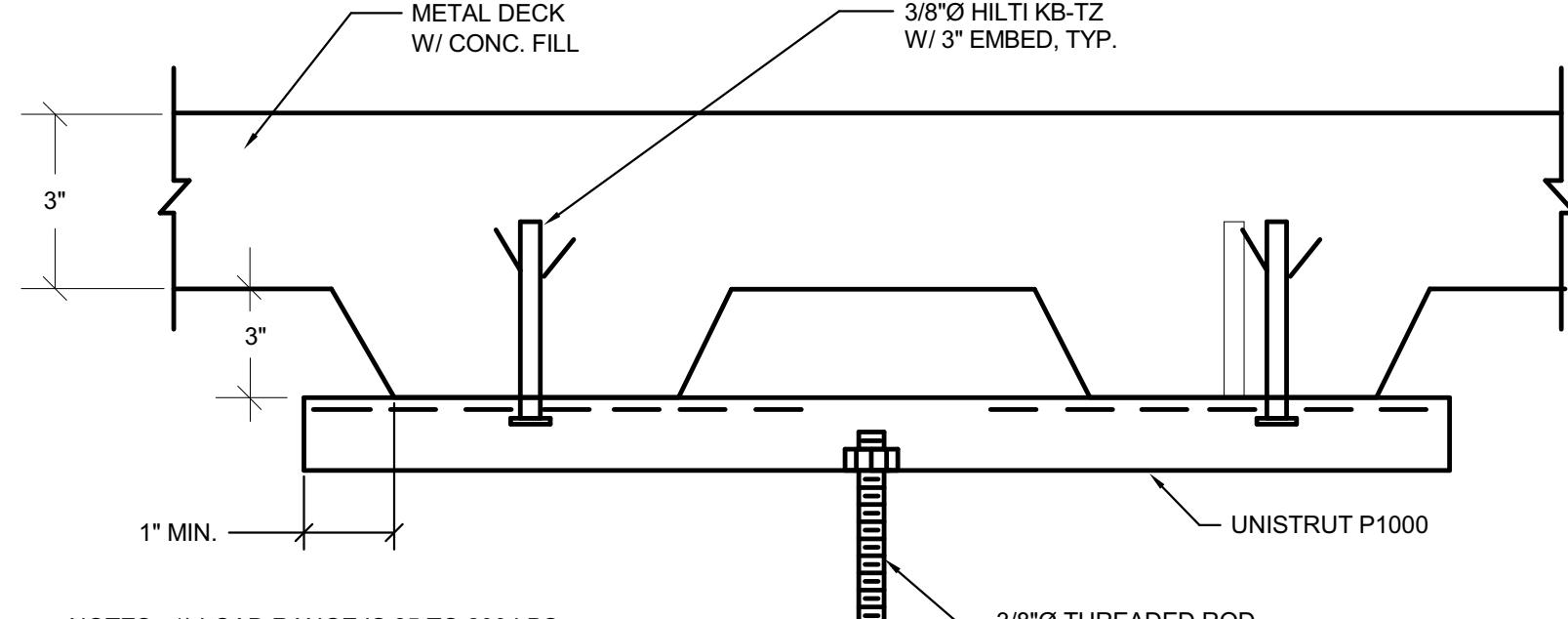
NO SCALE M-MOUNTING 13-03



NOTE: SEAL AROUND PERIMETER OF AHU WITH WEATHERPROOF SEALANT.

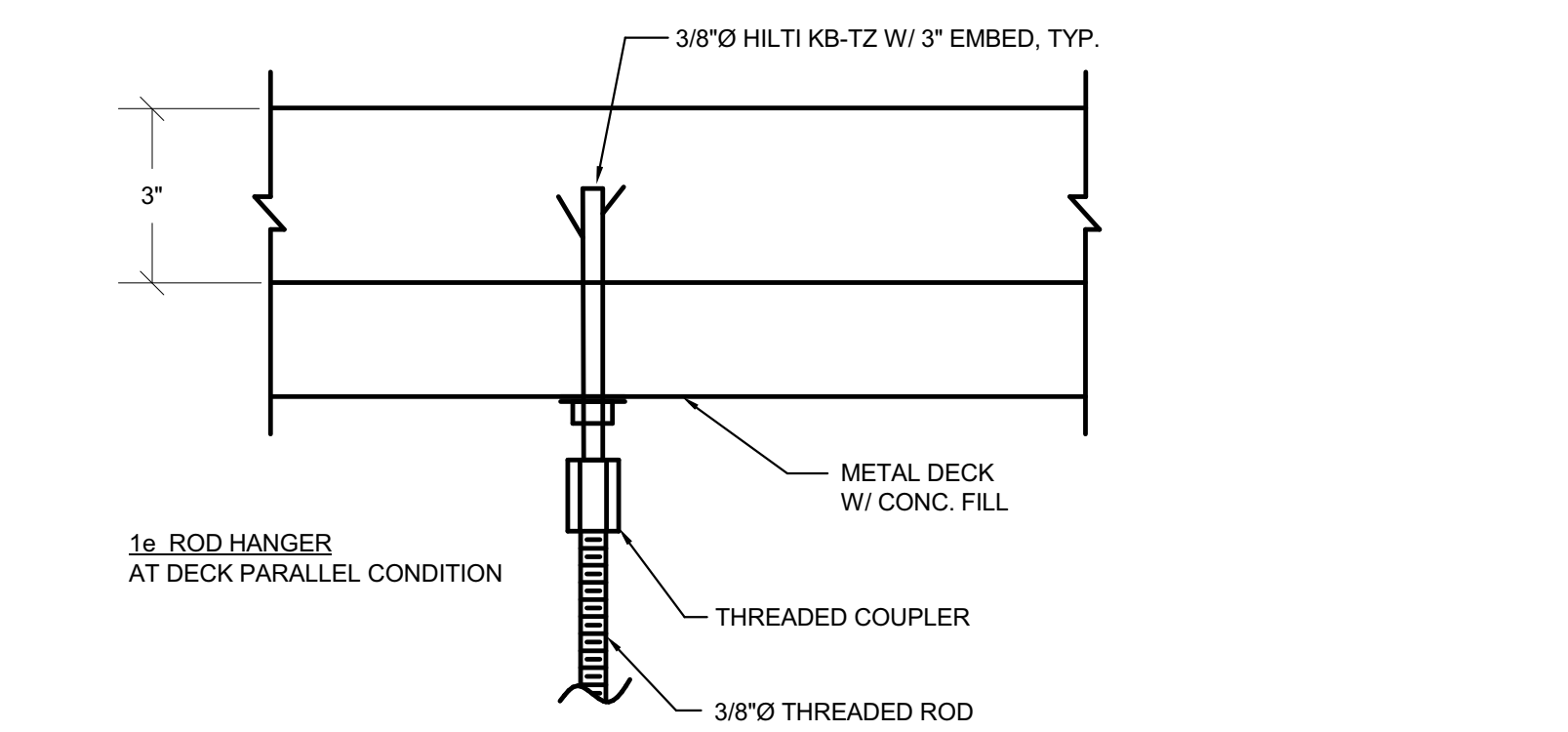
2 AHU MOUNTING DETAIL

NO SCALE M-MOUNTINGS 10-05

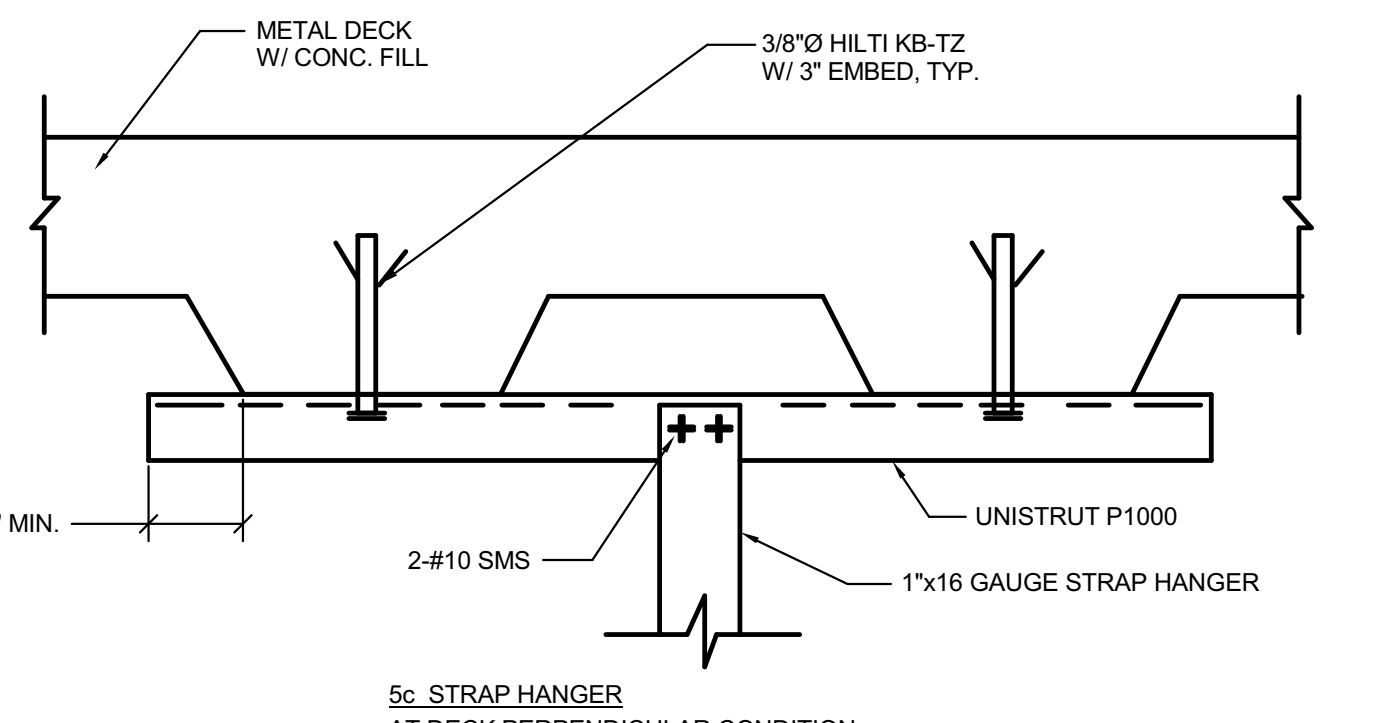


- NOTES: 1) LOAD RANGE IS 25 TO 200 LBS.
2) MAX. ROD SIZE: 7/8"
3) DEFLECTION = 0.20"

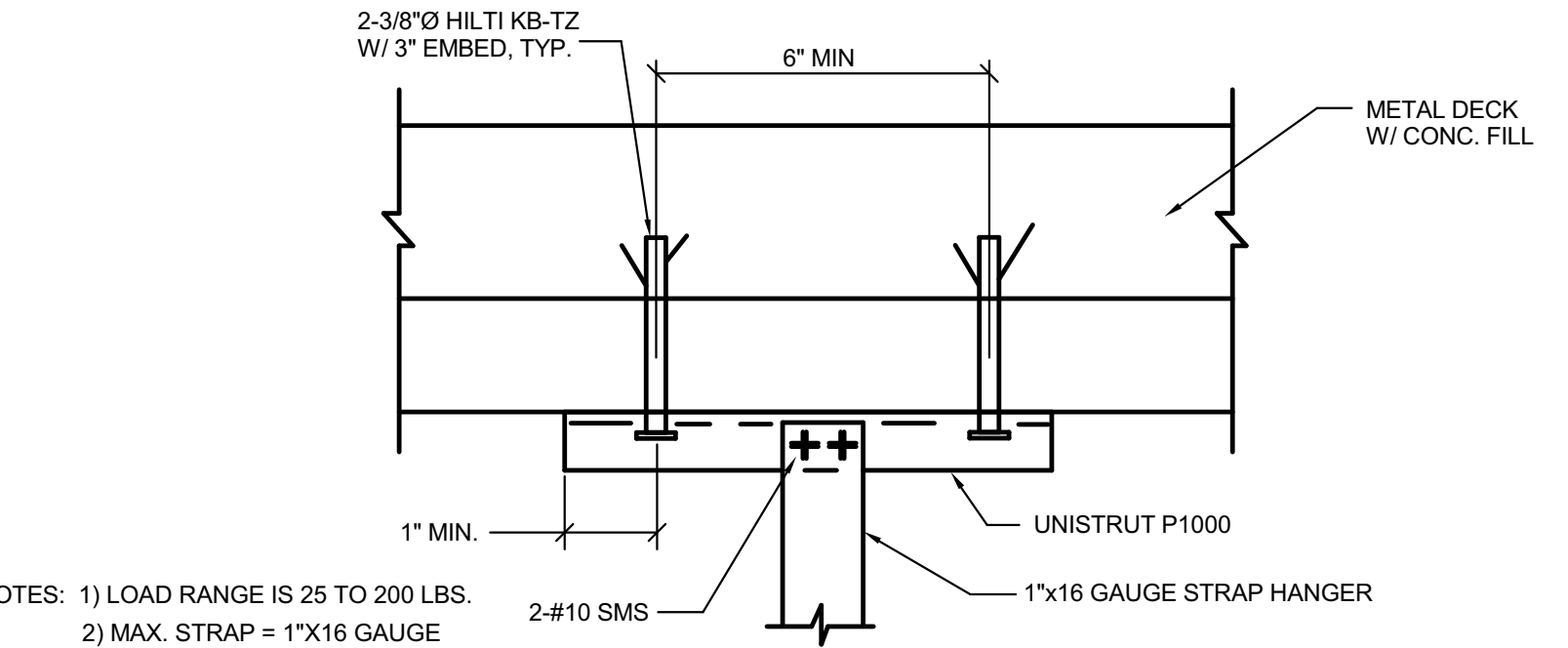
1d ROD HANGER AT DECK PERPENDICULAR CONDITION



1e ROD HANGER AT DECK PARALLEL CONDITION



5c STRAP HANGER AT DECK PERPENDICULAR CONDITION

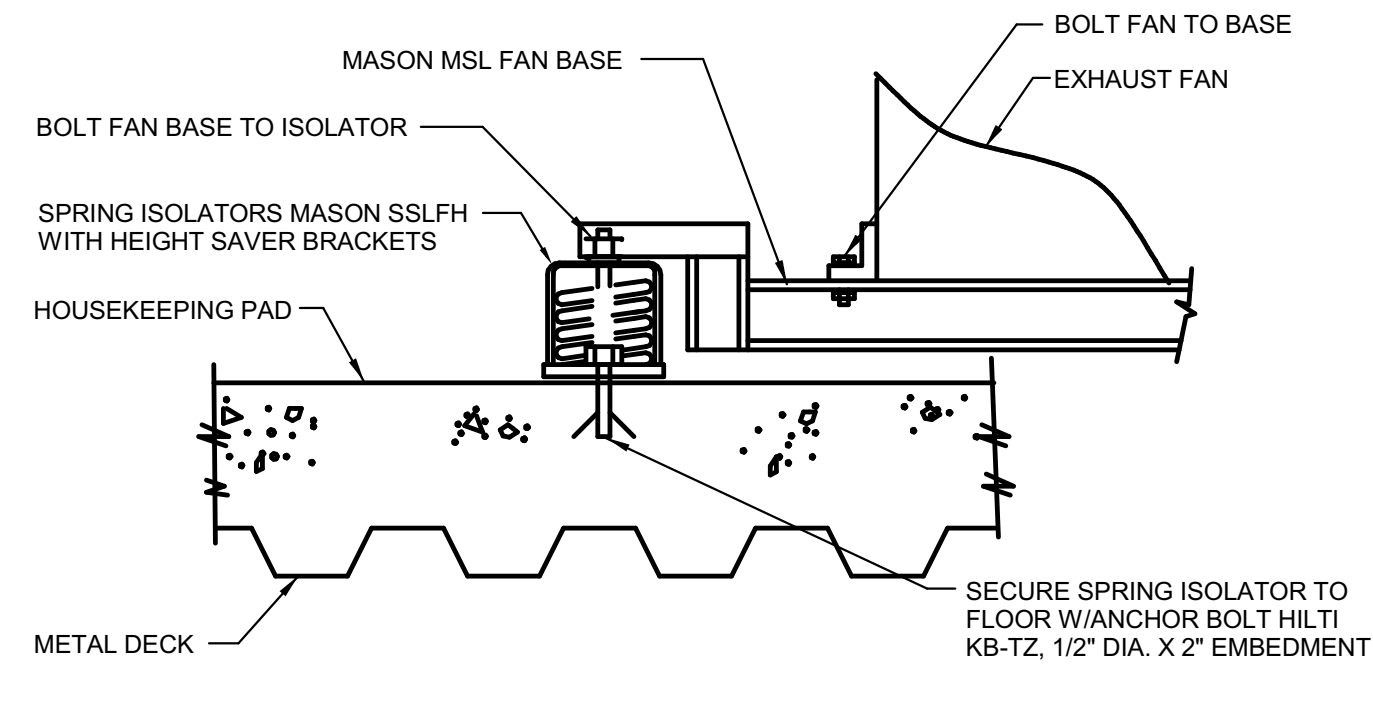


- NOTES: 1) LOAD RANGE IS 25 TO 200 LBS.
2) MAX. STRAP = 1" X 16 GAUGE
3) DEFLECTION = 0.50"

5d STRAP HANGER AT DECK PARALLEL CONDITION

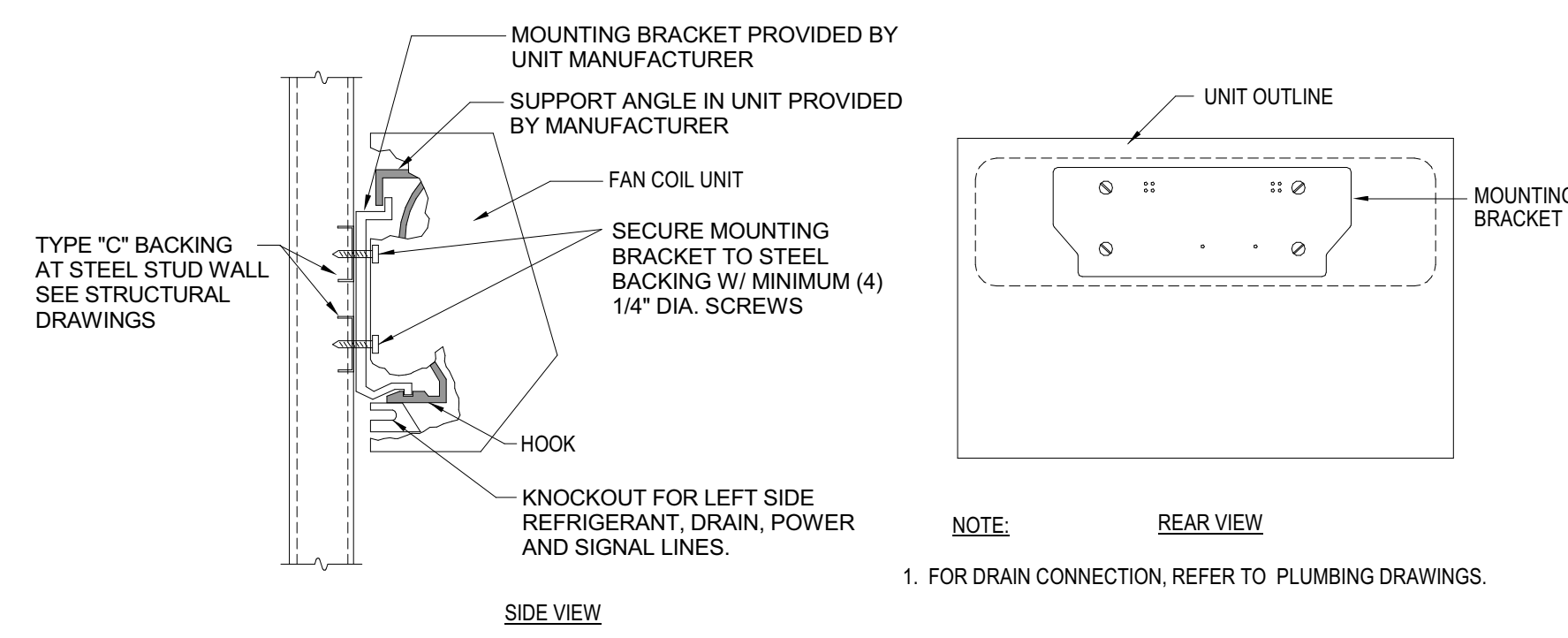
5 STRAP HANGER DETAIL

NO SCALE M-MOUNTING 13-03



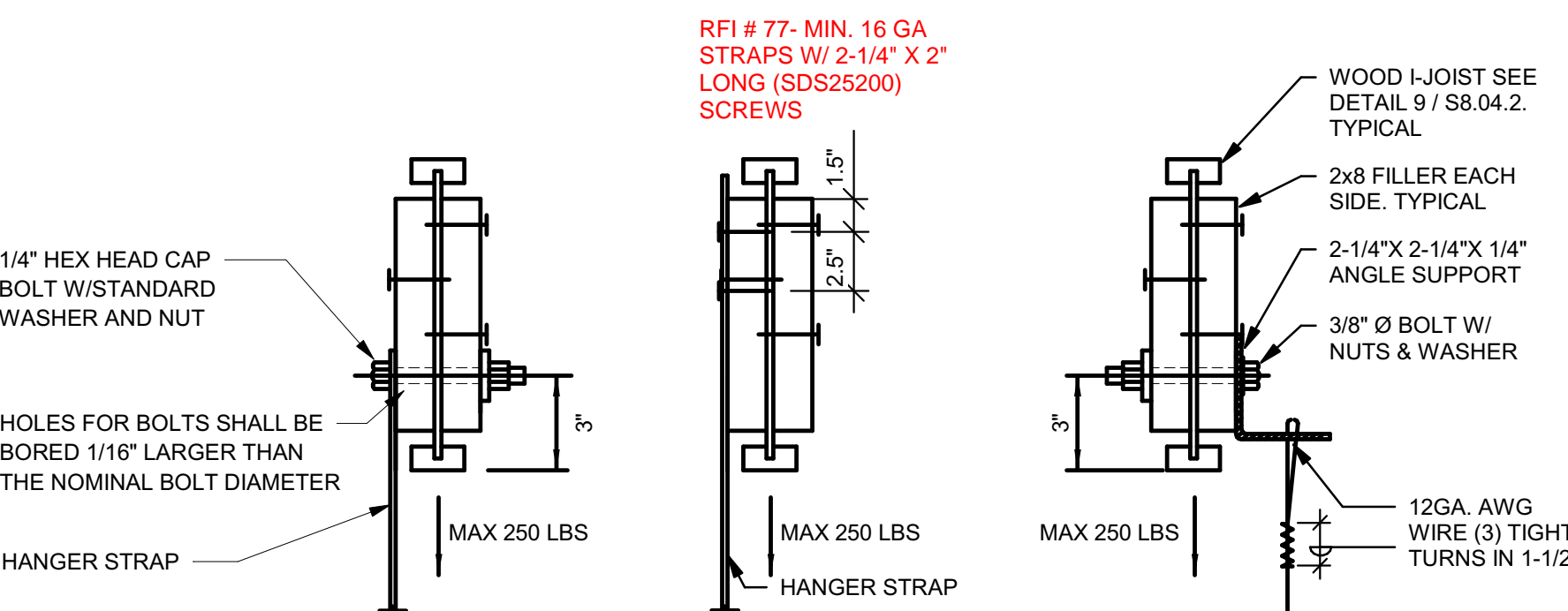
4 EXHAUST FAN MOUNTING DETAIL (EF-1)

NO SCALE M-MOUNTING 3-11



3 SPLIT SYSTEM FAN COIL MOUNTING DETAIL

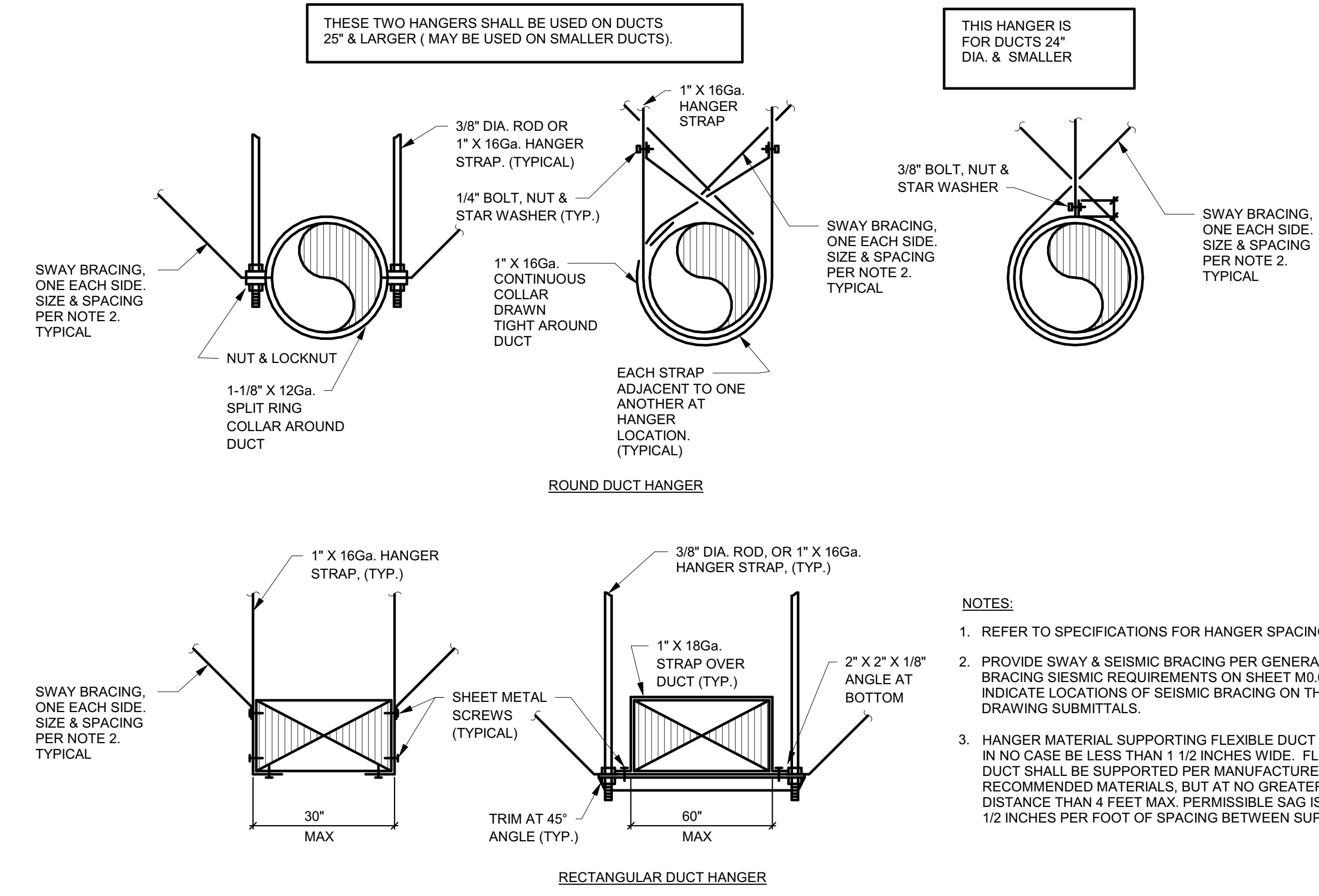
NO SCALE



- NOTE: 1. ATTACHMENTS TO OVERHEAD STRUCTURE SHALL BE MADE IN ACCORDANCE WITH STRUCTURAL ENGINEERS REQUIREMENTS AND WEIGHT LIMITATIONS. ALL ATTACHMENT METHODS TO STRUCTURE SHALL BE SUBMITTED TO ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW.
2. REFER TO DETAILS 8, 9 & 18 SHEET S8.04.2.

7 MTG ATTACHMENT TO WOOD STRUCTURE

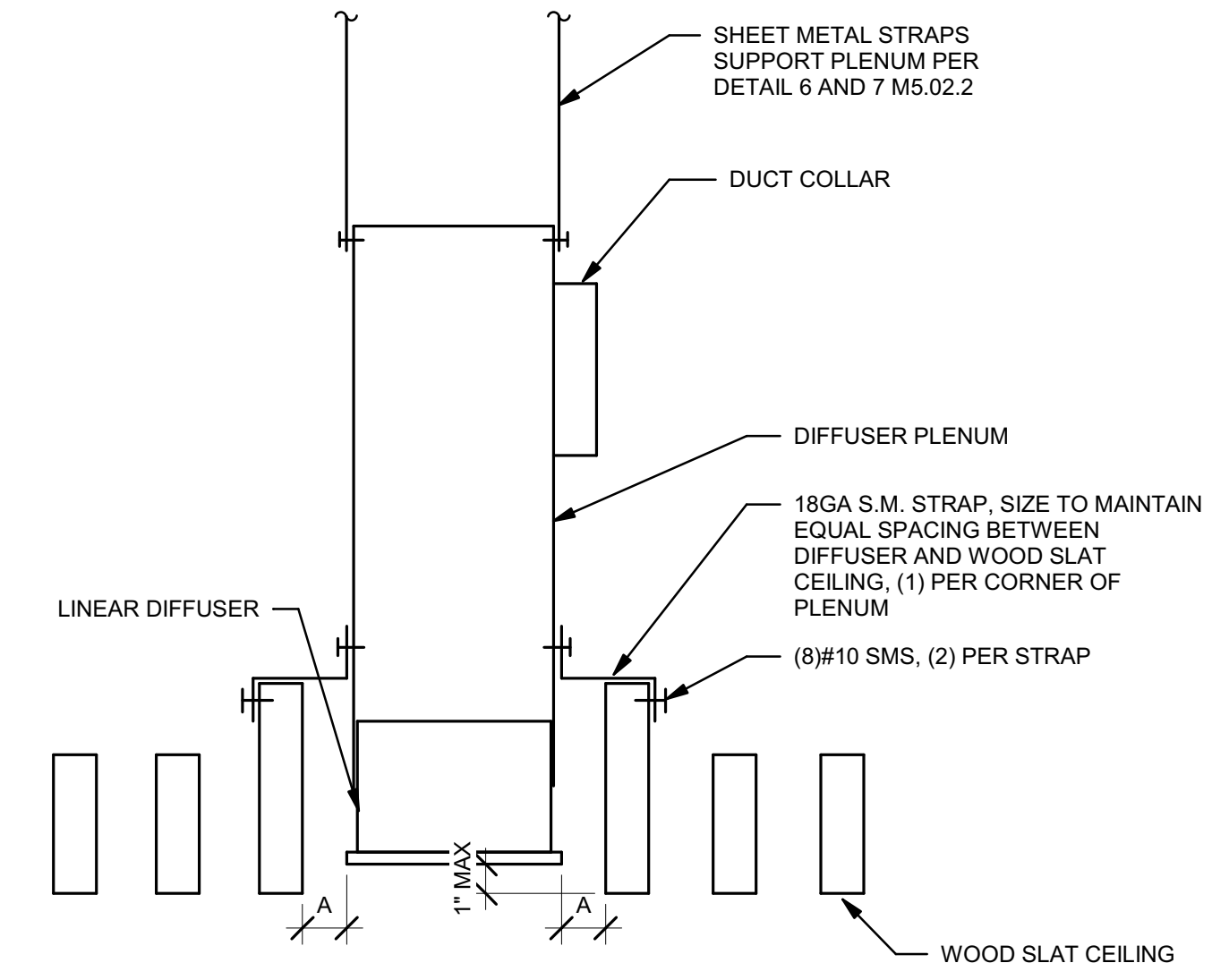
NO SCALE



- NOTES: 1. REFER TO SPECIFICATIONS FOR HANGER SPACINGS.
2. PROVIDE SWAY & SEISMIC BRACING PER GENERAL BRACING SIESMIC REQUIREMENTS ON SHEET M0.01.2. INDICATE LOCATIONS OF SEISMIC BRACING ON THE SHOP DRAWING SUBMITTALS.
3. HANGER MATERIAL SUPPORTING FLEXIBLE DUCT SHALL IN NO CASE BE LESS THAN 1 1/2 INCHES WIDE. FLEXIBLE DUCT SHALL BE SUPPORTED PER MANUFACTURER'S RECOMMENDED MATERIALS. BUT AT NO GREATER DISTANCE THAN 4 FEET MAX. PERMISSIBLE SAG IS MAX. 1/2 INCHES PER FOOT OF SPACING BETWEEN SUPPORTS.

6 DUCT SUPPORT DETAIL

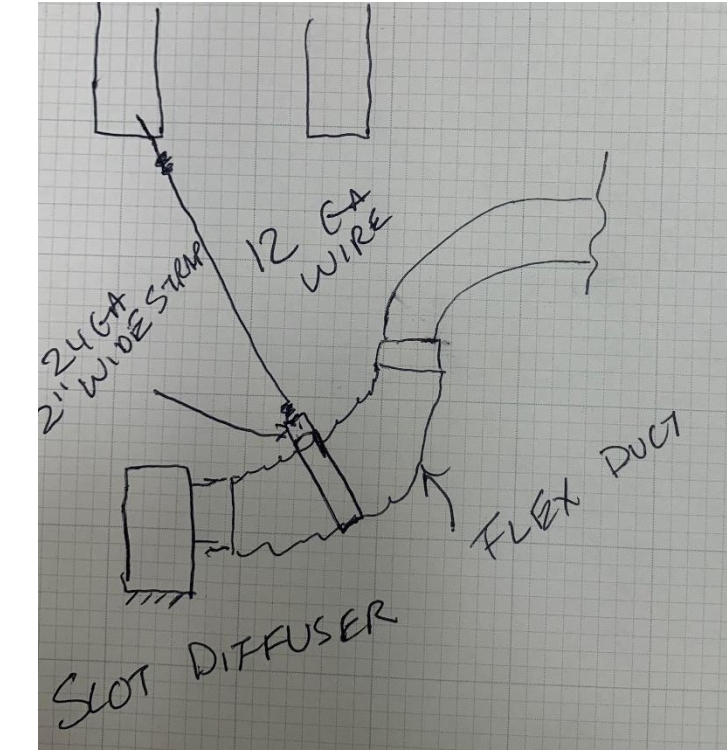
NO SCALE



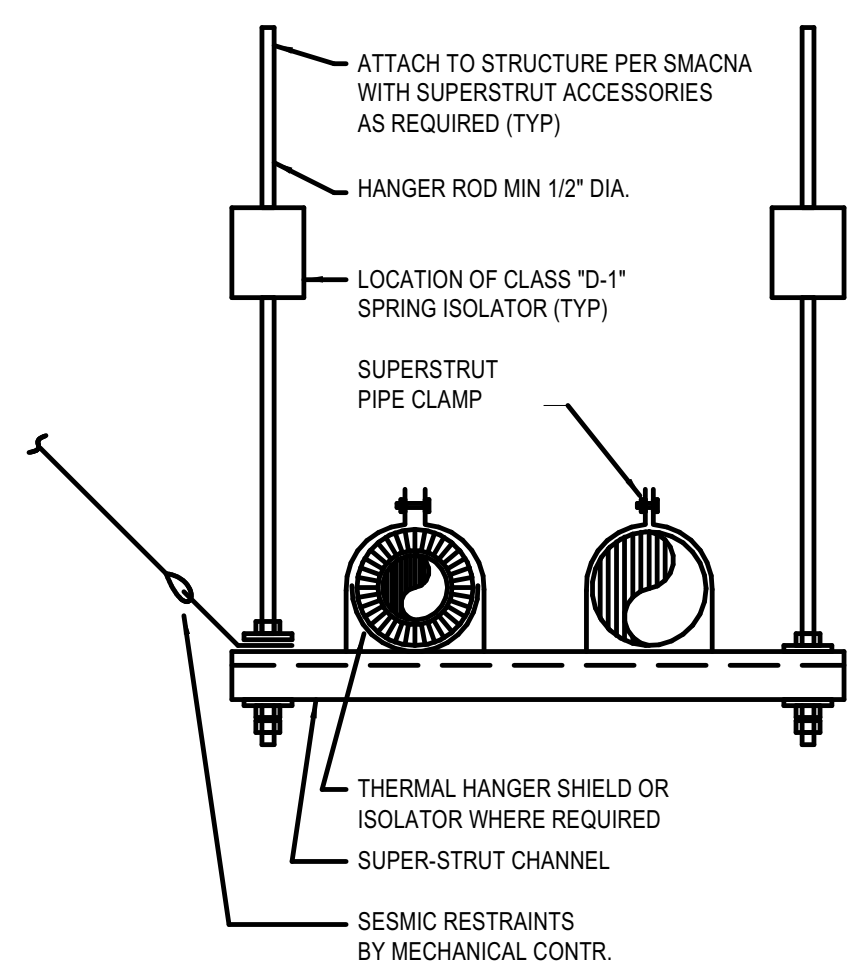
8 SLOT DIFFUSER SUPPORT

NO SCALE

- RFI #106- FLEXIBLE DUCT SUPPORT DETAIL - 12 GAUGE WIRE ATTACHED TO 24 GAUGE 2" WIDE STRAP TO SUPPORT FLEX DUCT.
RFI #109 - USE BEAM CLAMPS TO HANG HHW PIPING USING DETAIL 2FFS.03.2. HHW PIPING IS LESS THAN 250LBS. TOLCO FIG. 130-TRUS JOIST BEAM CLAMP



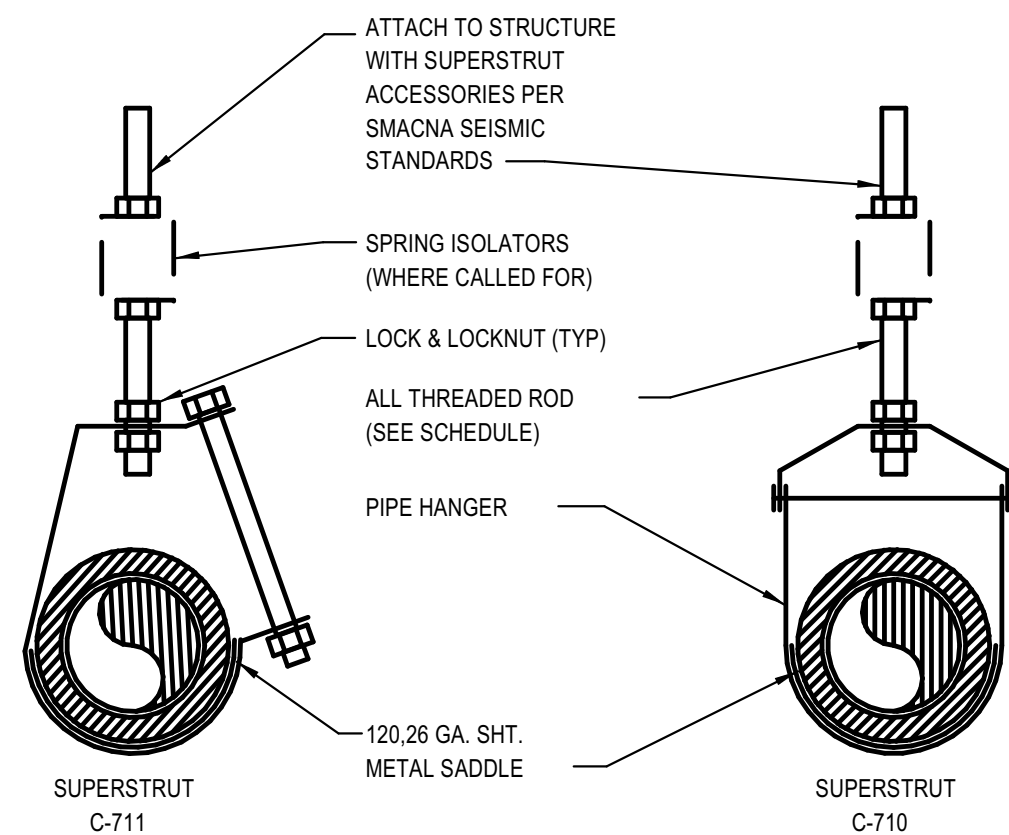
REFER TO DETAILS ON SHEET M5.02.2



1 TRAPEZE SPRING HANGER

NO SCALE

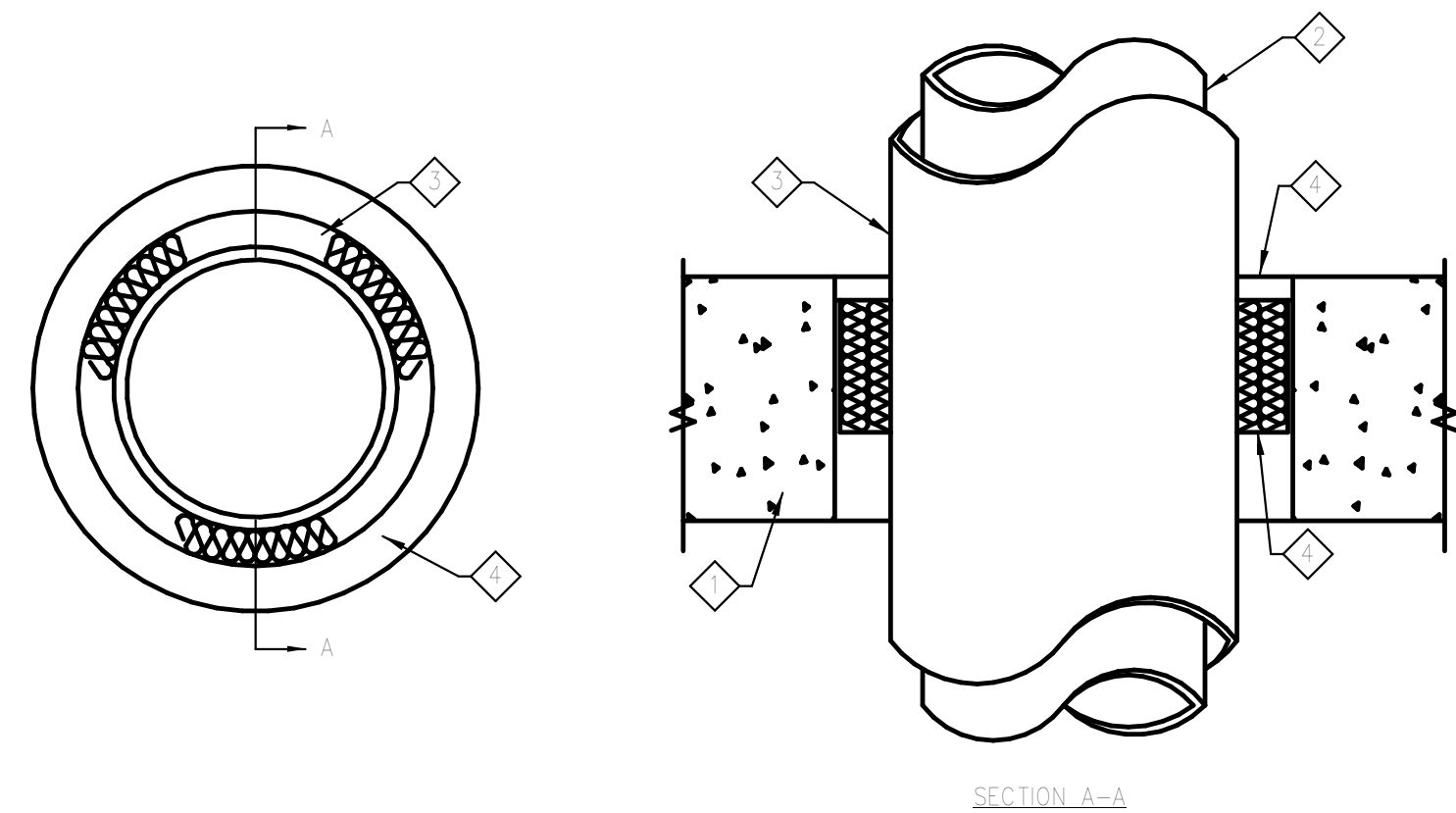
REFER TO DETAILS ON SHEET M5.02.2



3 SINGLE PIPE SUPPORT

NO SCALE

| PIPE SIZE (IN) | MAX SUPPORT SPAN (FT) | MIN. ROD SIZE (IN) |
|----------------|-----------------------|--------------------|
| UP TO 1" | 7 | 3/8" |
| 1-1/2" | 9 | 3/8" |
| 2 TO 2-1/2" | 10 | 3/8" |
| 3" | 12 | 1/2" |
| 3-1/2" | 13 | 1/2" |
| 4" | 14 | 5/8" |
| 5" | 16 | 5/8" |
| 6" | 17 | 3/4" |
| 8" | 19 | 7/8" |
| 10" | 22 | 7/8" |
| 12" | 23 | 7/8" |



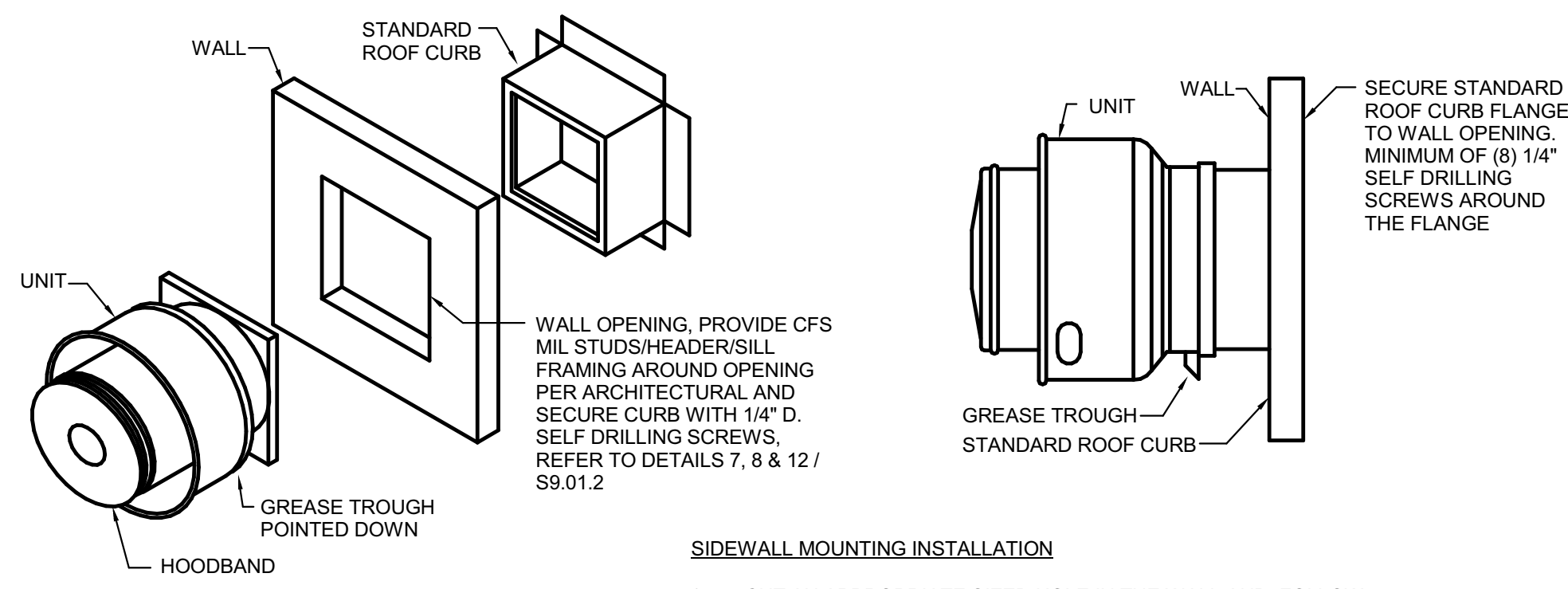
NOTES:

- FLOOR OR WALL ASSEMBLY.
- PIPE.
- FIRESTOP SYSTEM PER ASTM E814/UL1479.
- PENETRATION OPENING PER ANNUAL SPACE REQUIREMENTS FOR SELECTED SYSTEM.

| PIPE MATERIAL | MIN. THICKNESS | MAX. SIZE | U.L. SYSTEM No. |
|---------------|----------------|-----------|-----------------|
| STEEL | SCH10 | 30" | CA,15002 |
| COPPER | TYPE L | 4" | CA,15002 |

2 INSULATED PIPE THRU WALL/FLOOR

NO SCALE

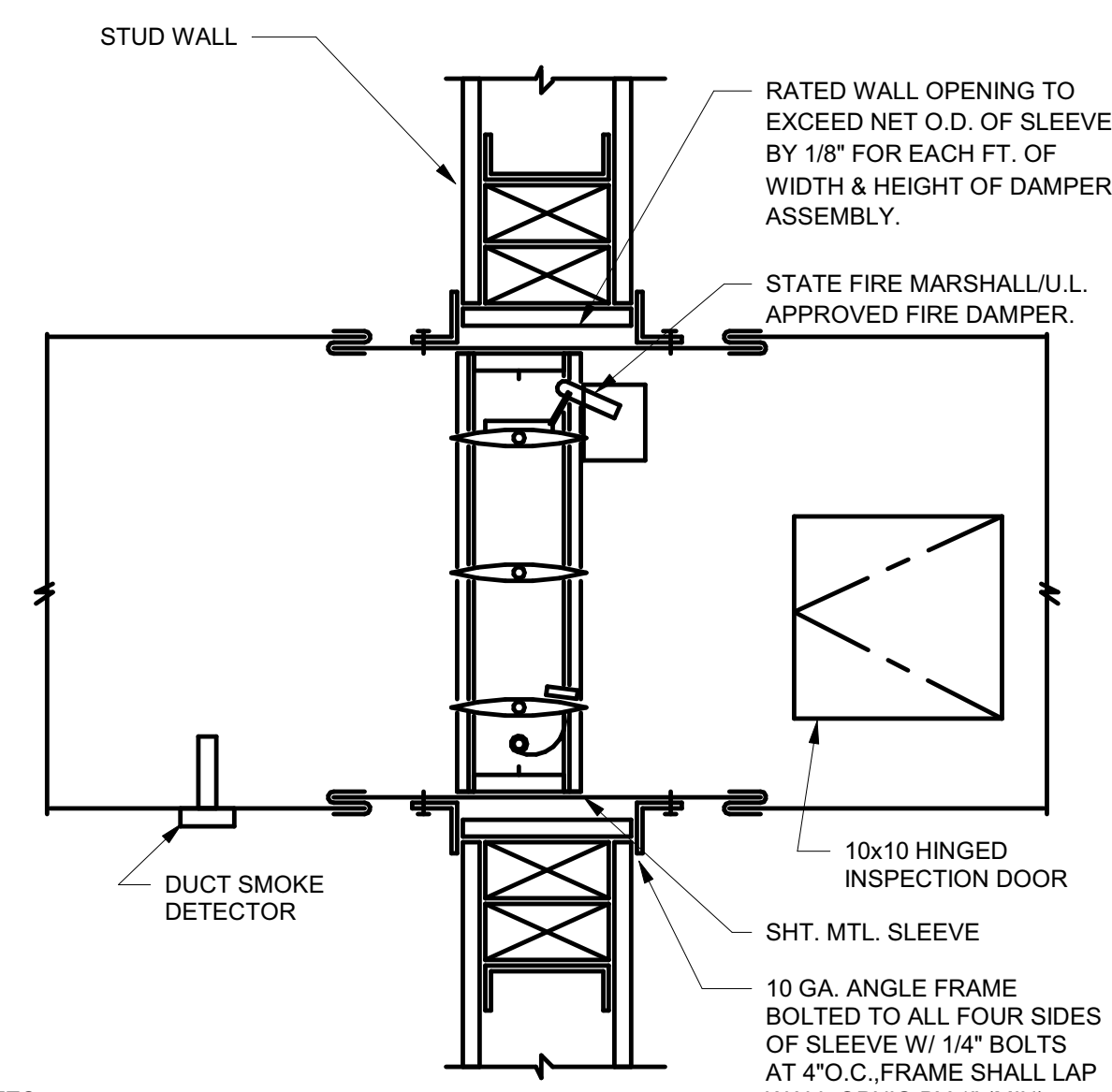


6 WALL MOUNTED EXHAUST FAN

NO SCALE

SIDEWALL MOUNTING INSTALLATION

- CUT AN APPROPRIATE SIZED HOLE IN THE WALL AND FOLLOW MANUFACTURER'S INSTRUCTIONS ON CURB INSTALLATION. MOUNT THE CURB TO THE INTERIOR OF THE WALL WITH A MINIMUM (8) 1/4" SELF DRILLING FASTENERS AROUND THE FLANGE. CAULK AND FLASH THE CURB TO ENSURE A WATERTIGHT SEAL.
- IF THE UNIT IS EQUIPPED WITH A BACKDRAFT DAMPER, IT SHOULD BE INSTALLED NOW.
- LIFT THE FAN INTO PLACE. DO NOT SUPPORT THE UNIT BY THE HOODBAND DURING INSTALLATION.



NOTES:

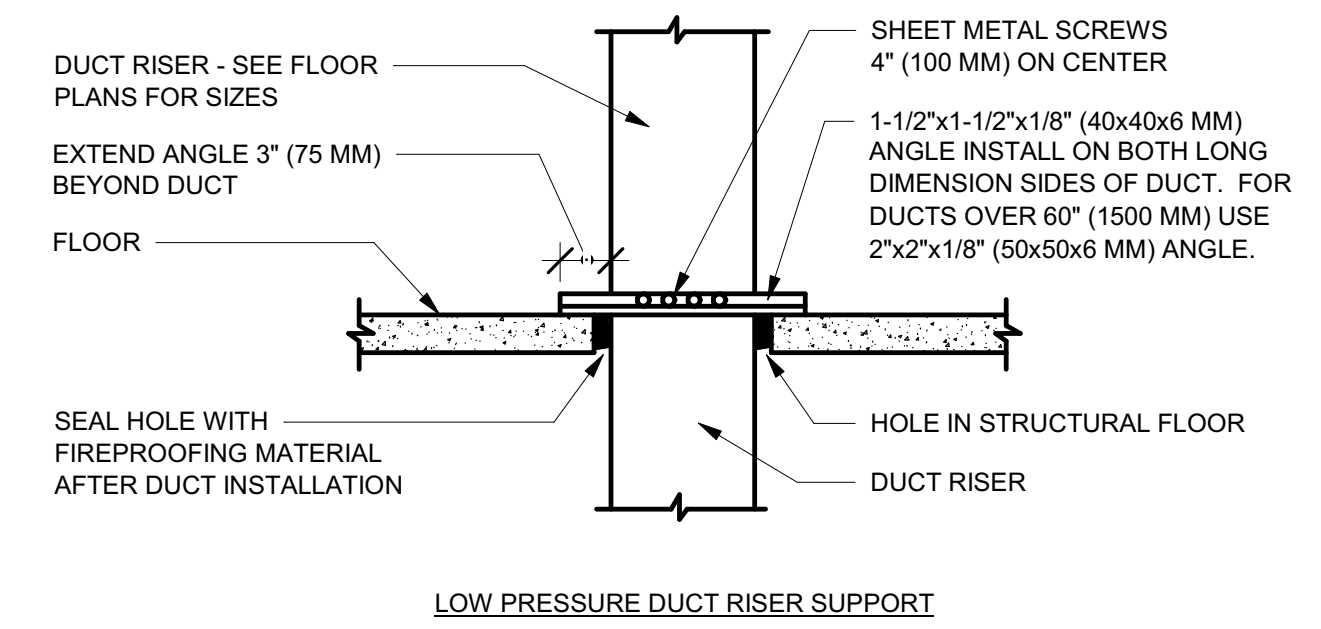
- USE 'UNITED DUCT SEALER' OR EQUAL WHERE DUCTS CONNECT TO SLEEVE.
- IF ROUND DUCT, PROVIDE WELDED ROUND DUCT COLLAR ON BOTH SIDES. SIMILAR TO HIGH VELOCITY FIRE DAMPER. OPENING SIZE = DUCT SIZE + 1".

SEQUENCE

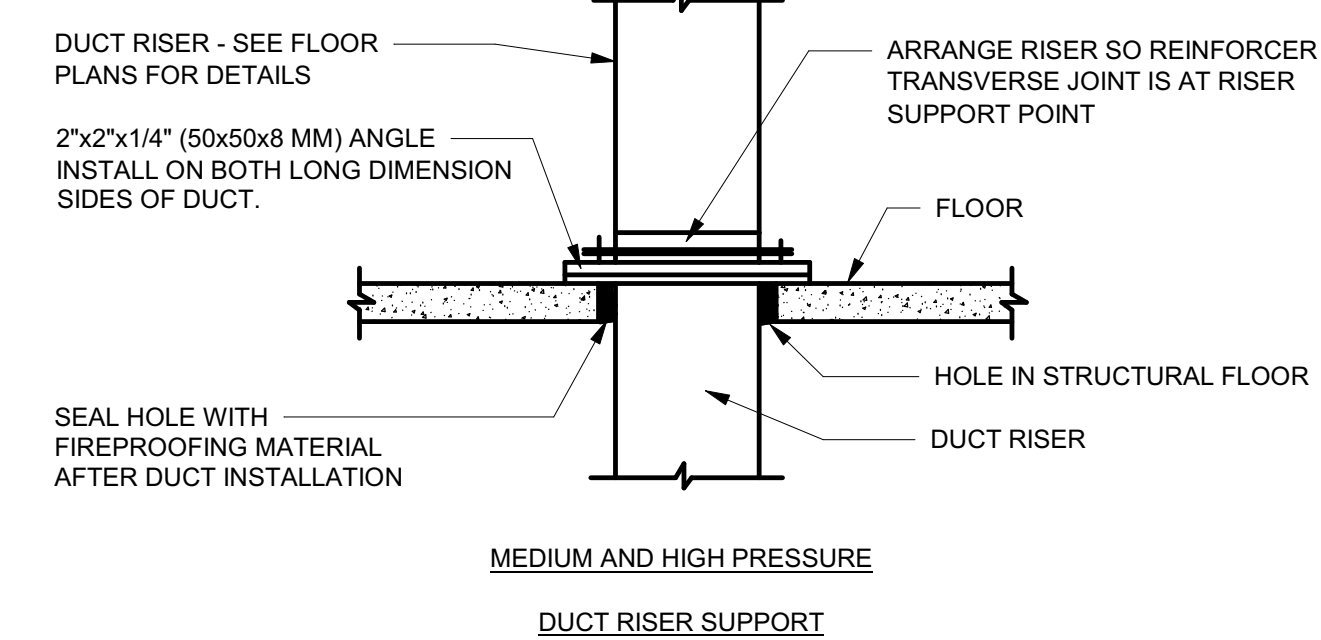
- FSD SHALL CLOSE AT ANY OF THE FOLLOWING CONDITIONS:
- DETECTION OF SMOKE BY LOCAL DUCT SMOKE DETECTOR.
- LOSS OF POWER.
- SIGNED FROM FACP.

7 FIRE & SMOKE DAMPER

NO SCALE



LOW PRESSURE DUCT RISER SUPPORT



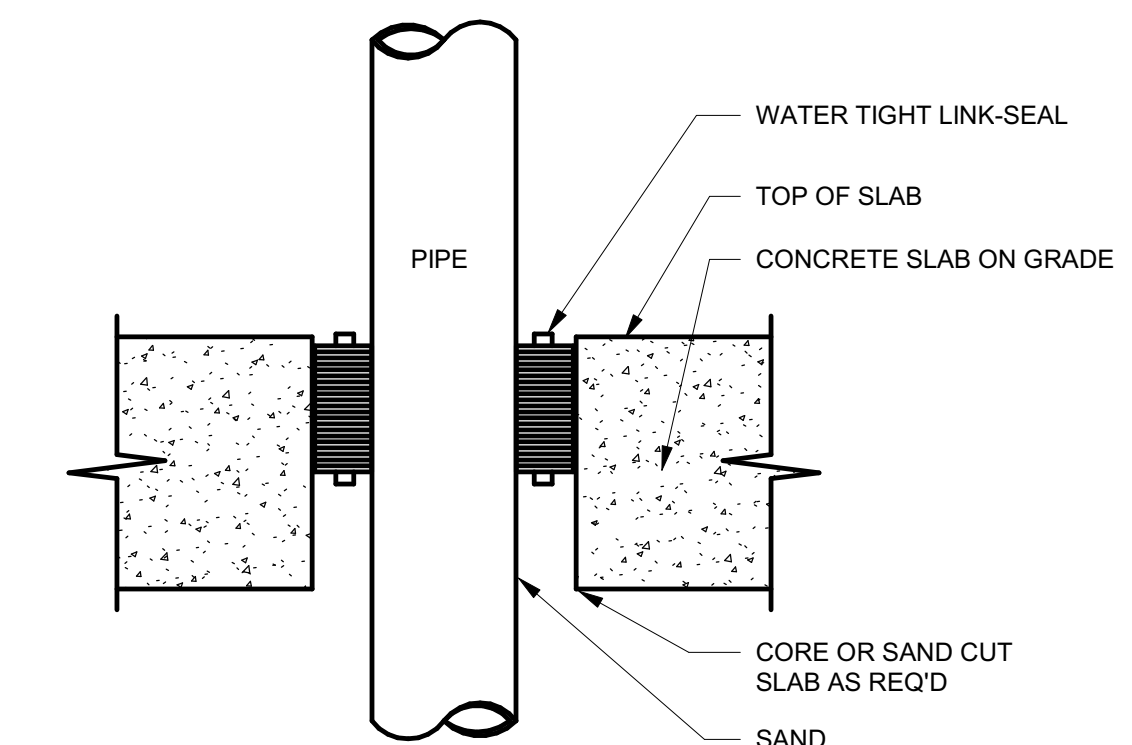
MEDIUM AND HIGH PRESSURE DUCT RISER SUPPORT

NOTE:

- ALL DUCT WORK RISERS WHICH ARE RUN EXPOSED, SUCH AS THRU ATTIC FLOORS AND FAN ROOM FLOORS SHALL BE PROVIDED WITH A 3" (75 MM) HIGH CONCRETE CURB AROUND OPENING FOR DUCT.

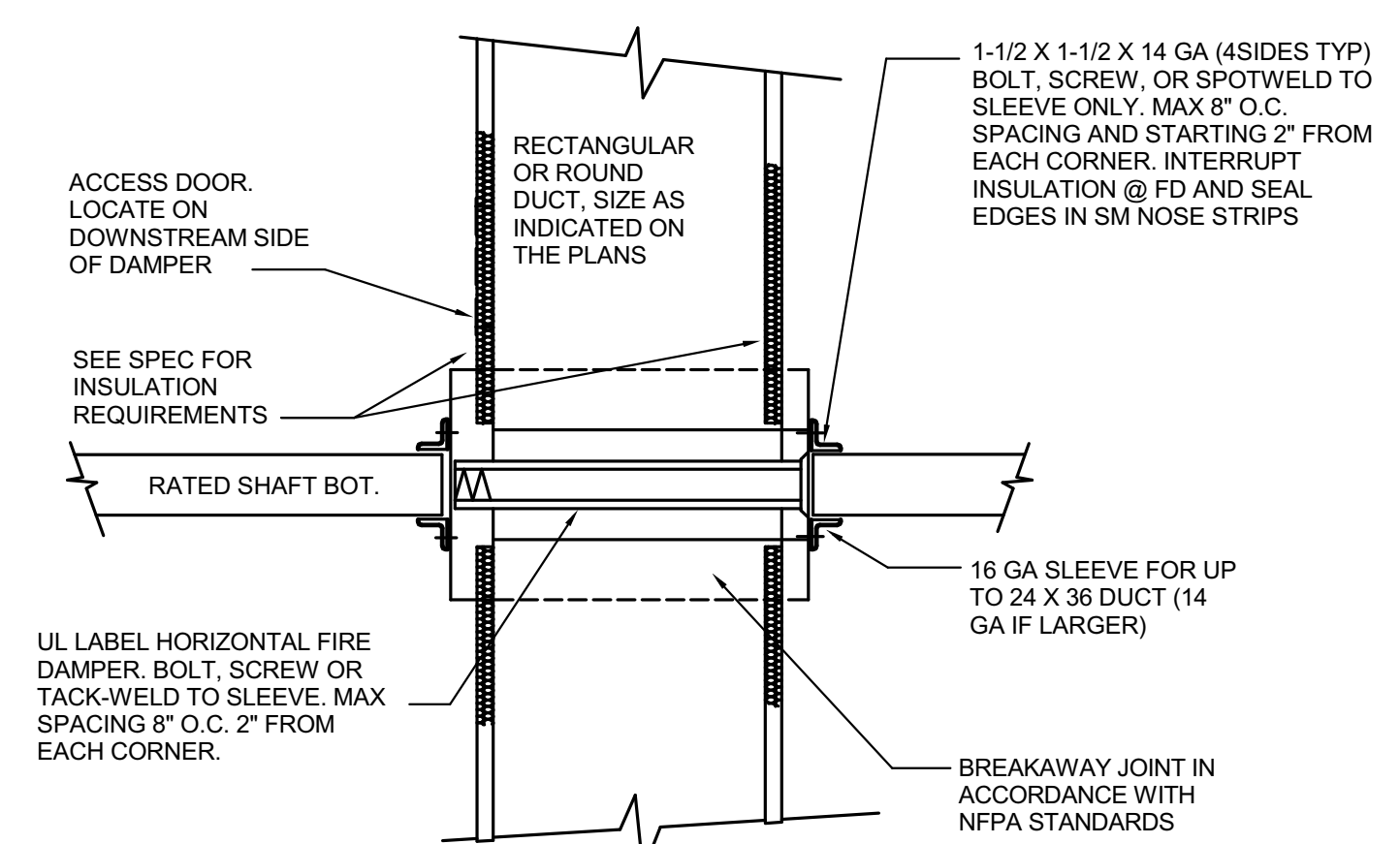
9 DUCT RISER SUPPORT

NO SCALE



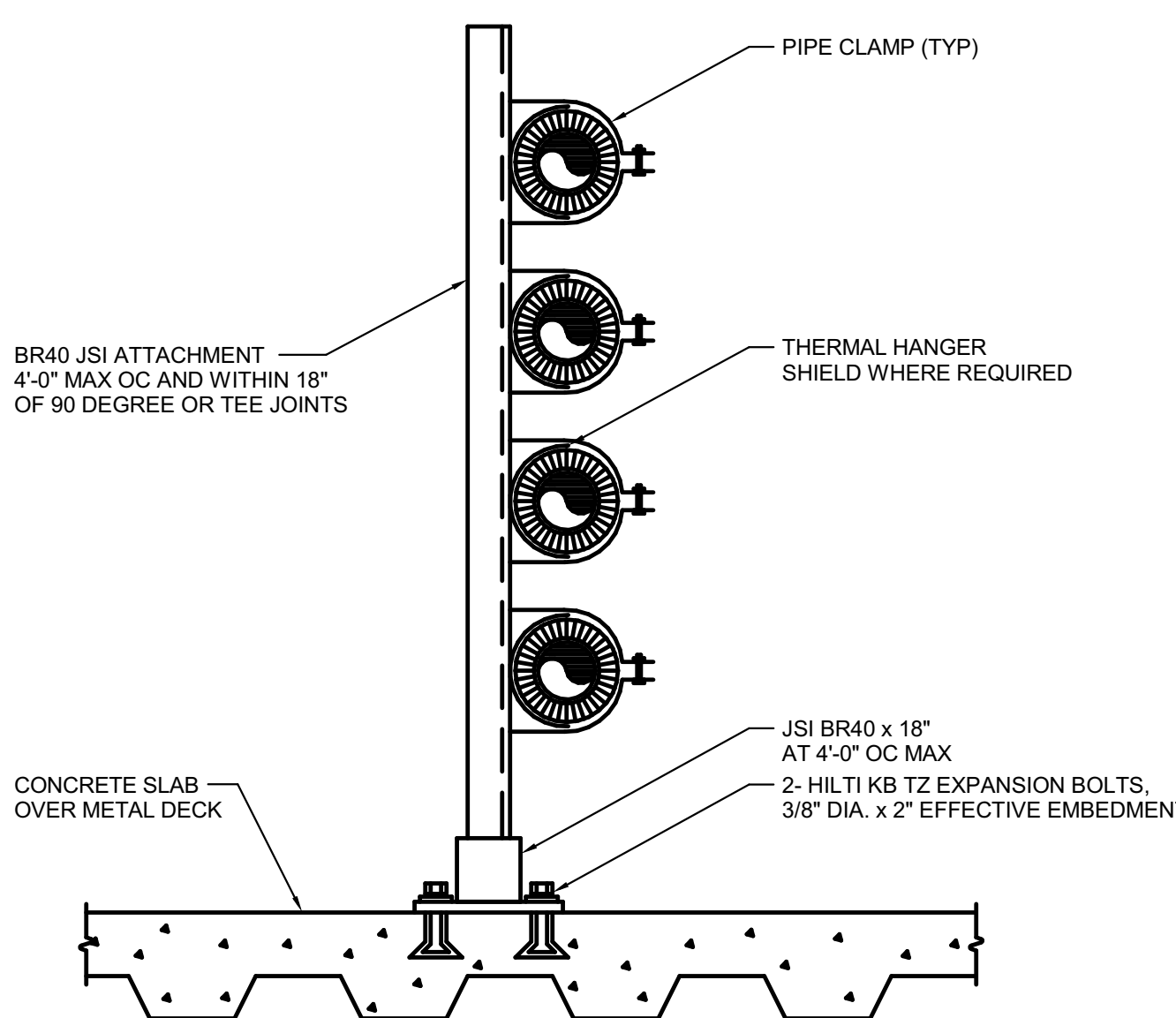
10 PIPE THROUGH SLAB ON GRADE

NO SCALE



NOTES:

- DAMPER BLADES OUT OF AIRSTREAM.
- SLEEVE LENGTH TO EXTEND 3" ABOVE & BELOW FLOOR.

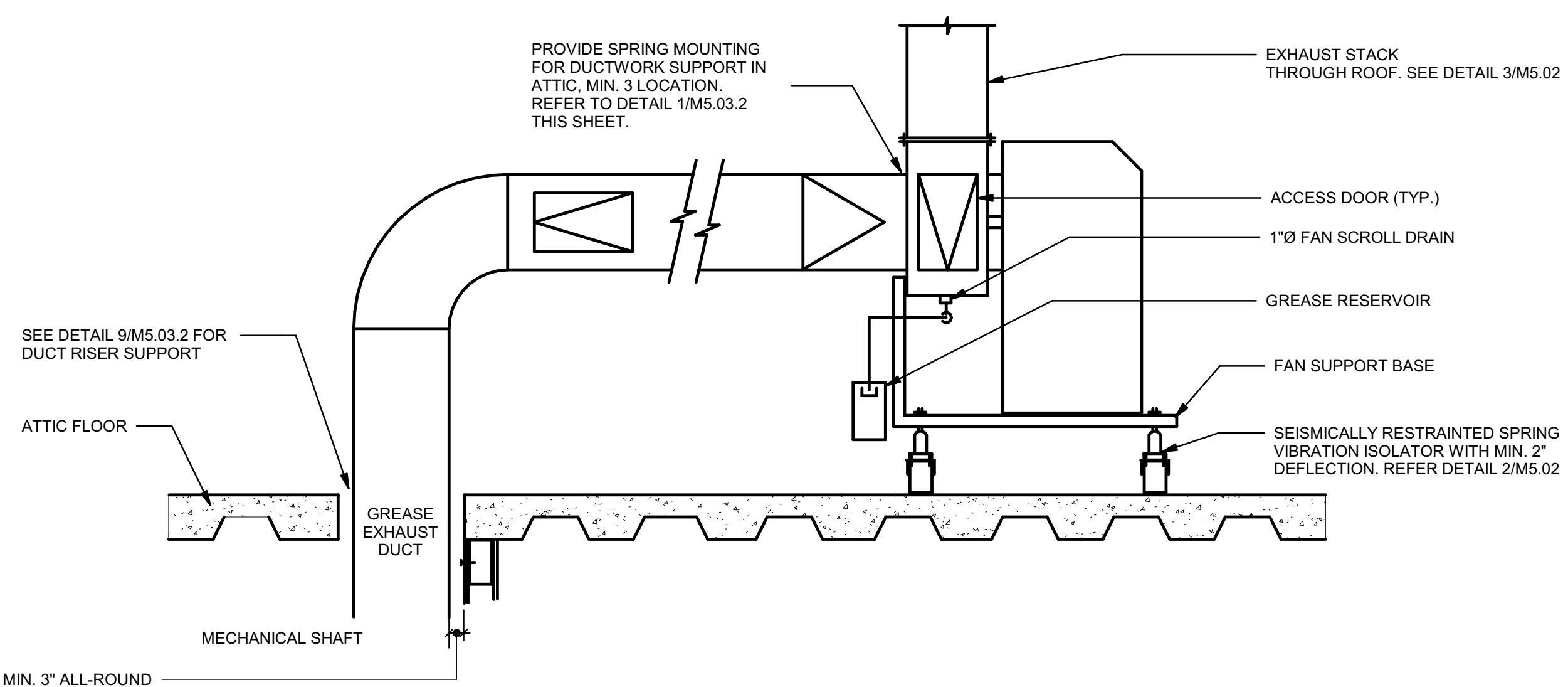


8 STACKED PIPE SUPPORT DETAIL

NO SCALE

NOTES:

- SEISMICALLY SUPPORT GREASE EXHAUST DUCT.

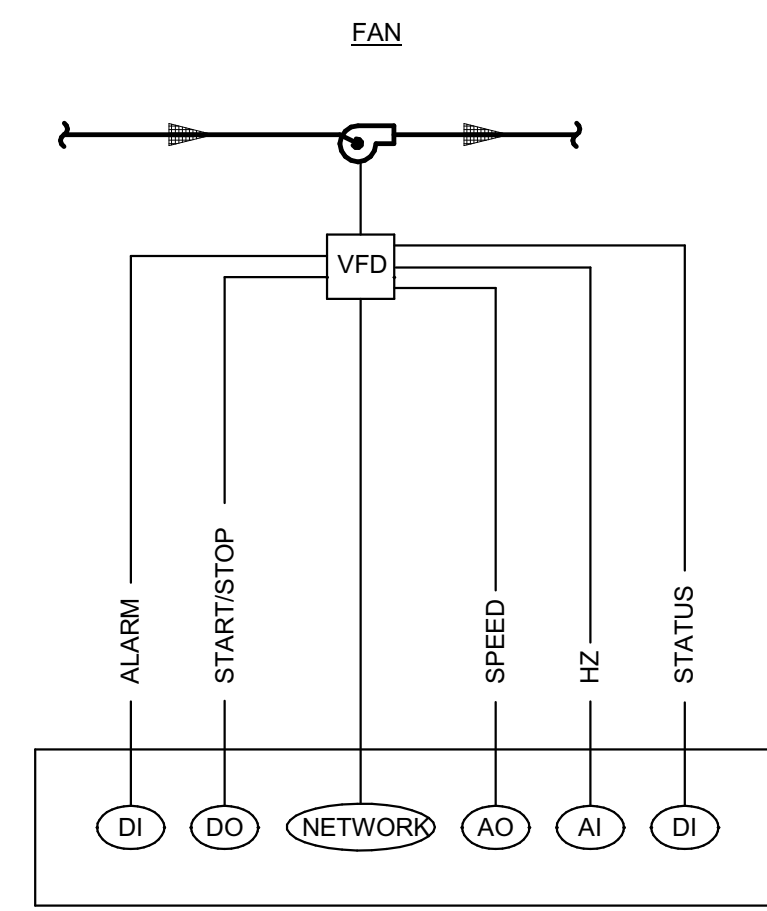


5 GREASE HOOD EXHAUST FAN DETAIL (EF-1)

NO SCALE

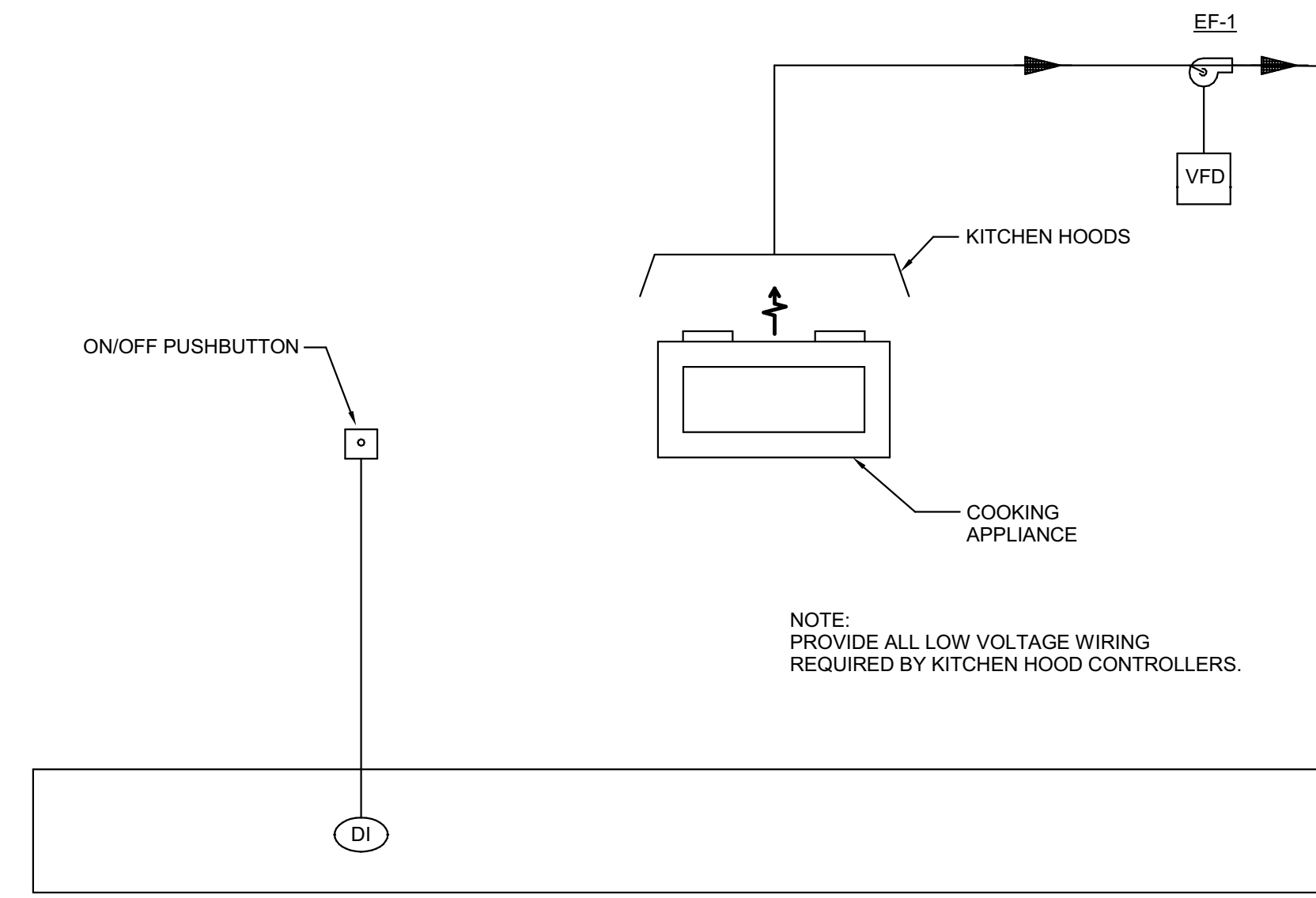
CONTROL DIAGRAM SYMBOLS LIST

| ABBREVIATIONS | SYMBOLS | SYMBOLS | |
|---------------|--------------------------------------|-----------|--|
| AFMS | AIR FLOW MEASURING STATION | (AI) | ANALOG INPUT |
| AI | ANALOG INPUT | (AO) | ANALOG OUTPUT |
| AO | ANALOG OUTPUT | (CT) | ELECTRIC CURRENT TRANSMITTER |
| BMS/BAS | BUILDING MANAGEMENT SYSTEM | DDC #f | DIRECT DIGITAL CONTROL |
| CO | CARBON MONOXIDE SENSOR | (DI) | DIGITAL INPUT |
| CO2 | CARBON DIOXIDE SENSOR | (DO) | DIGITAL OUTPUT |
| CT | ELECTRIC CURRENT TRANSMITTER | (DP) (DP) | DIFFERENTIAL PRESSURE SENSOR |
| DDC | DIRECT DIGITAL CONTROL | (FS) | FLOW METER |
| DI | DIGITAL INPUT | (H) | ROOM / DUCT RELATIVE HUMIDITY SENSOR / TRANSMITTER |
| DO | DIGITAL OUTPUT | (HS) | HIGH STATIC PRESSURE SENSOR |
| DP | PRESSURE SENSOR | (MS) | MOTOR STARTER |
| EA | EXHAUST AIR | --- MD | MOTORIZED DAMPER |
| ECM | ELECTRONICALLY COMMUTATED MOTOR | (NETWORK) | BACNET COMMUNICATION LINE WITH DEVICE / CONTROLLER |
| EF | EXHAUST FAN | (P) | PRESSURE SENSOR |
| HS | HIGH STATIC | (SD) | SMOKE DETECTOR |
| HWR | HEATING HOT WATER RETURN | (SP) | SPACE PRESSURE SENSOR |
| HWS | HEATING HOT WATER SUPPLY | (T) | TEMPERATURE SENSOR/ROOM THERMOSTAT |
| M | MOTORIZED | (TPI) | THIRD PARTY INTERFACE (BACNET) |
| MAU | MAKE UP AIR UNIT | (VFD) | VARIABLE FREQUENCY DRIVE |
| MS | MOTOR STARTER | (ECM) | ELECTRONICALLY COMMUTATED MOTOR |
| MD | MOTORIZED DAMPER | | |
| OA | OUTSIDE AIR | | |
| P | PRESSURE SENSOR | | |
| PPM | PARTS PER MILLION | | |
| RA | RETURN AIR / RELIEF AIR | | |
| RF | RETURN FAN / RELIEF FAN | | |
| SA | SUPPLY AIR | | |
| SF | SUPPLY FAN OR SQUARE FOOT | | |
| SD | SMOKE DETECTOR | | |
| T | TEMPERATURE SENSOR / ROOM THERMOSTAT | | |
| TPI | THIRD PARTY INTERFACE | | |
| VFD | VARIABLE FREQUENCY DRIVE | | |



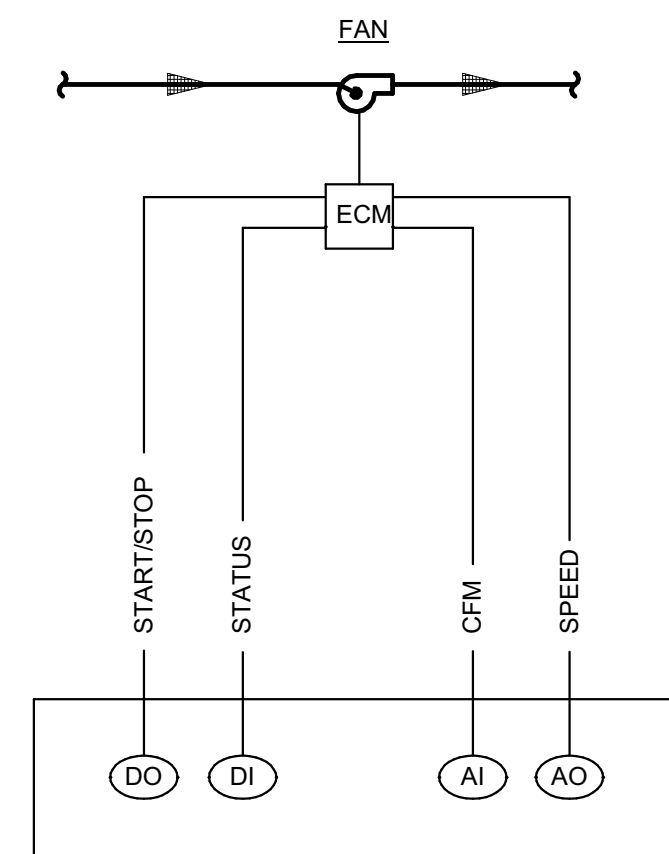
1 MOTOR WITH VFD (TYPICAL)

NO SCALE M-CONTROLS 17D-02



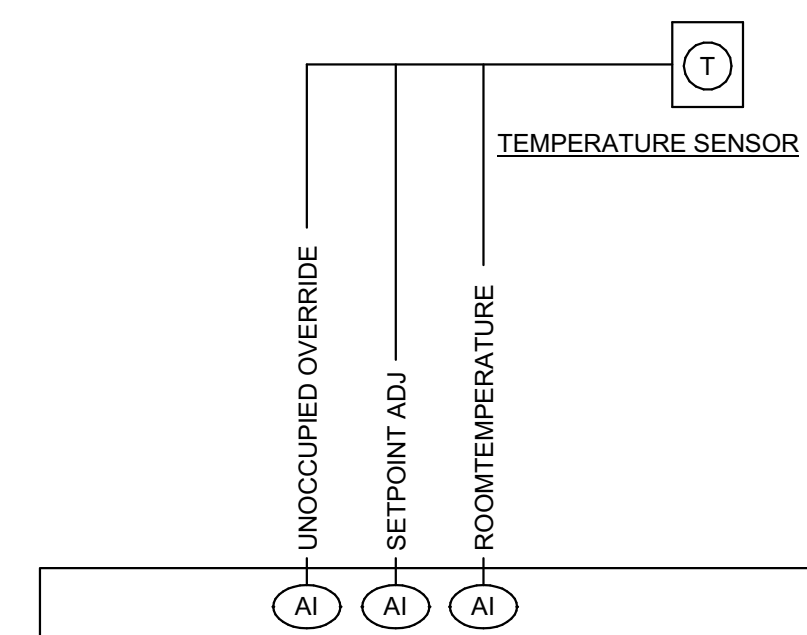
4 FOOD SERVICE SYSTEM CONTROL DIAGRAM (EF-1)

NO SCALE



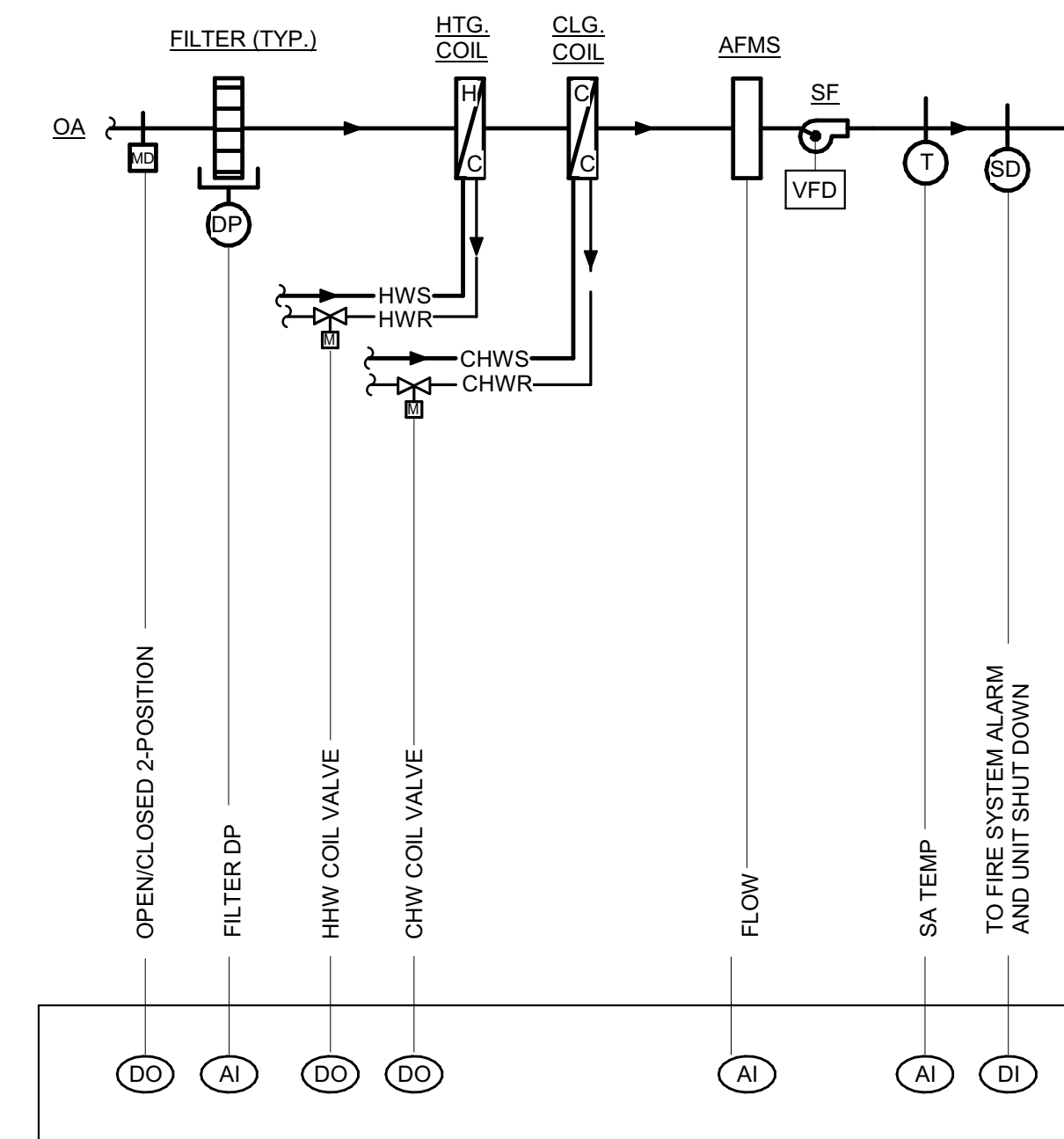
2 EC MOTOR (EF-2)

NO SCALE



3 ROOM THERMOSTAT (TYPICAL)

NO SCALE M-CONTROLS 17D-11



**MAKE-UP AIR UNIT
5 SYSTEM CONTROL DIAGRAM (AHU-9)**

NO SCALE

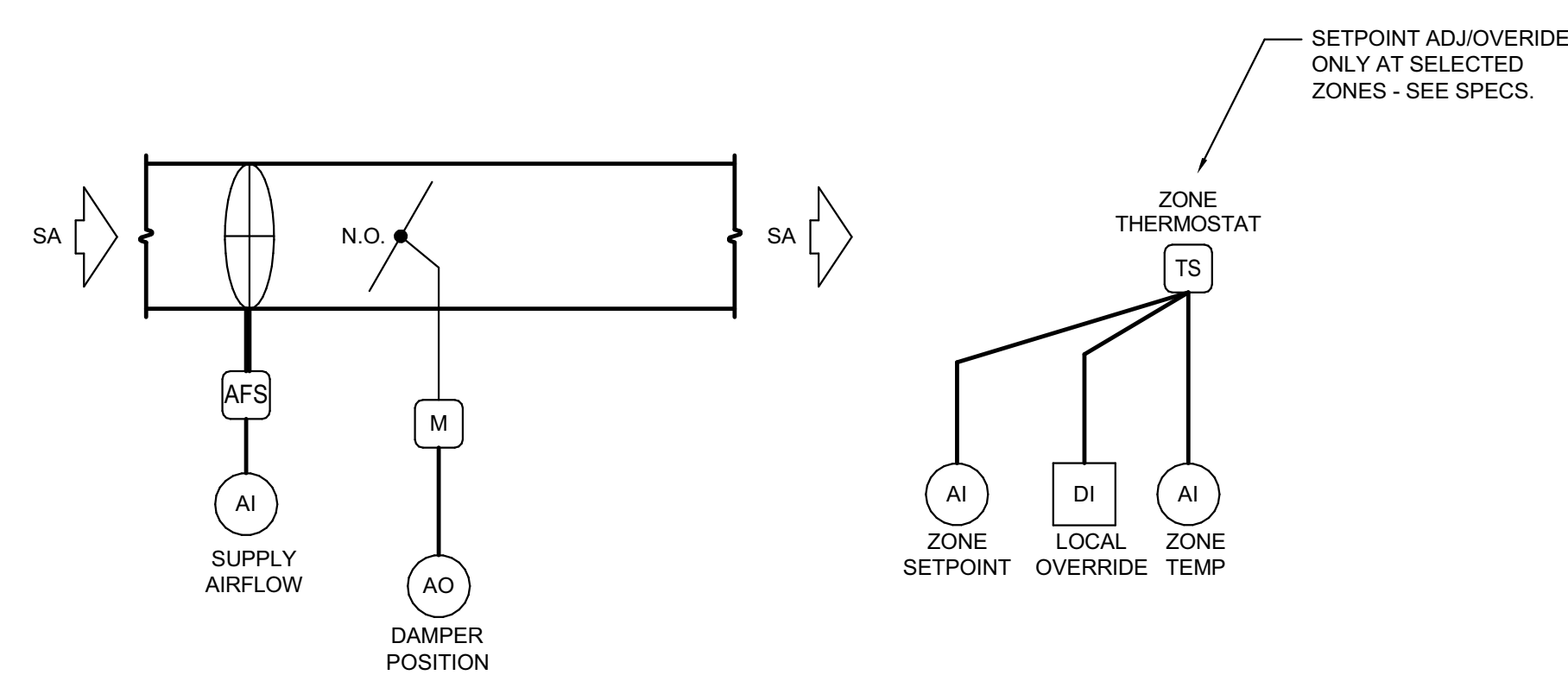
CONTROL DIAGRAM SYMBOLS LIST

ABBREVIATIONS

- AFMS AIR FLOW MEASURING STATION
- AI ANALOG INPUT
- AO ANALOG OUTPUT
- BMS/BAS BUILDING MANAGEMENT SYSTEM
- CO CARBON MONOXIDE SENSOR
- CO2 CARBON DIOXIDE SENSOR
- CT ELECTRIC CURRENT TRANSMITTER
- DDC DIRECT DIGITAL CONTROL
- DI DIGITAL INPUT
- DO DIGITAL OUTPUT
- DP PRESSURE SENSOR
- EA EXHAUST AIR
- ECM ELECTRONICALLY COMMUTATED MOTOR
- EF EXHAUST FAN
- HS HIGH STATIC
- HWR HEATING HOT WATER RETURN
- HWS HEATING HOT WATER SUPPLY
- M MOTORIZED
- MAU MAKE UP AIR UNIT
- MS MOTOR STARTER
- MD MOTORIZED DAMPER
- OA OUTSIDE AIR
- P PRESSURE SENSOR
- PPM PARTS PER MILLION
- RA RETURN AIR / RELIEF AIR
- RF RETURN FAN / RELIEF FAN
- SA SUPPLY AIR
- SF SUPPLY FAN OR SQUARE FOOT
- SD SMOKE DETECTOR
- T TEMPERATURE SENSOR / ROOM THERMOSTAT
- TPI THIRD PARTY INTERFACE
- VFD VARIABLE FREQUENCY DRIVE

SYMBOLS

- (AI) ANALOG INPUT
- (AO) ANALOG OUTPUT
- (CT) ELECTRIC CURRENT TRANSMITTER
- DDC #/ DIRECT DIGITAL CONTROL
- (DI) DIGITAL INPUT
- (DO) DIGITAL OUTPUT
- (DP) DIFFERENTIAL PRESSURE SENSOR
- (EA) FLOW METER
- (EF) FLOW SWITCH
- (H) ROOM / DUCT RELATIVE HUMIDITY SENSOR / TRANSMITTER
- (M) MOTORIZED
- (MAU) HIGH STATIC PRESSURE SENSOR
- (MS) MOTOR STARTER
- (MD) MOTORIZED DAMPER
- (NETWORK) BACNET COMMUNICATION LINE WITH DEVICE / CONTROLLER
- (P) PRESSURE SENSOR
- (PPM) SMOKE DETECTOR
- (SA) SPACE PRESSURE SENSOR
- (SF) TEMPERATURE SENSOR/ROOM THERMOSTAT
- (SD) SMOKE DETECTOR
- (T) THIRD PARTY INTERFACE (BACNET)
- (TPI) THIRD PARTY INTERFACE (BACNET)
- (VFD) VARIABLE FREQUENCY DRIVE
- (ECM) ELECTRONICALLY COMMUTATED MOTOR

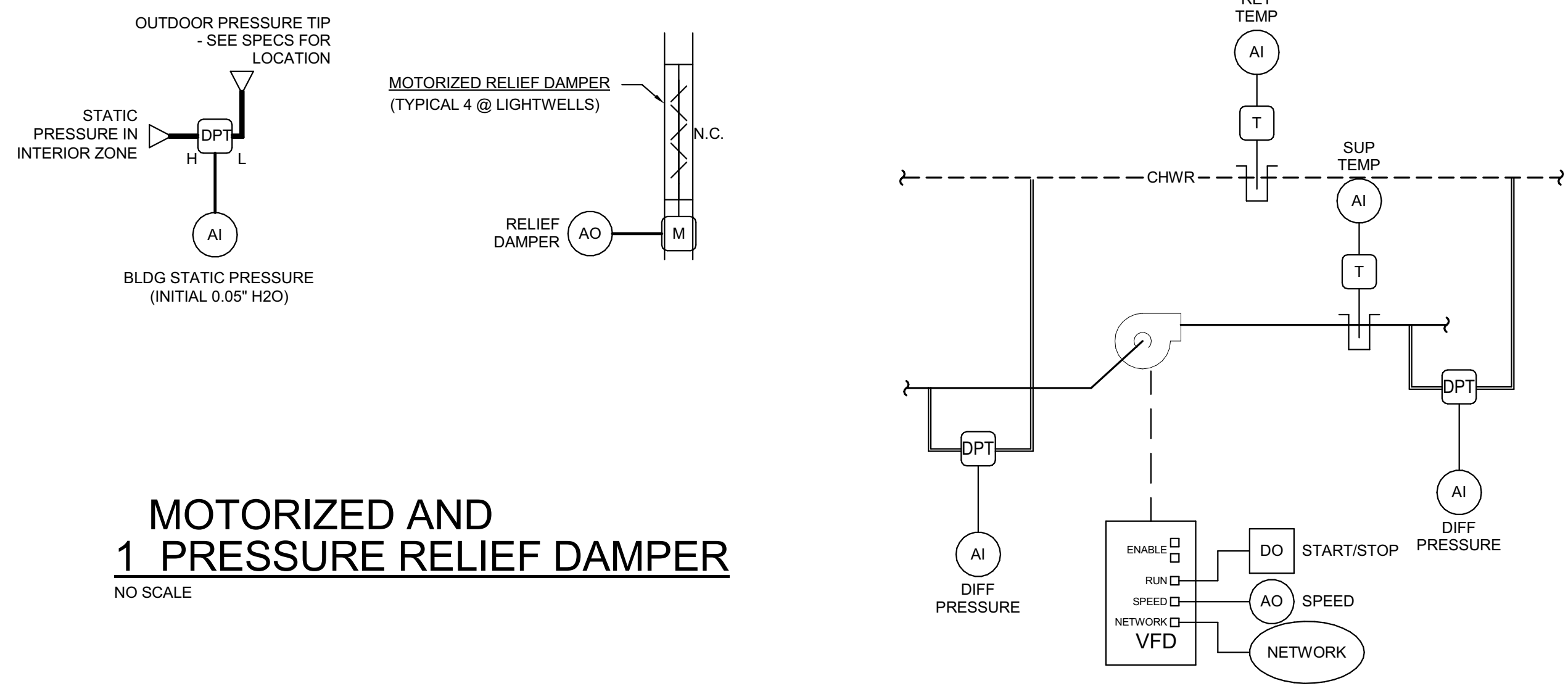


6 VAV COOLING ONLY ZONE CONTROL DIAGRAM
NO SCALE

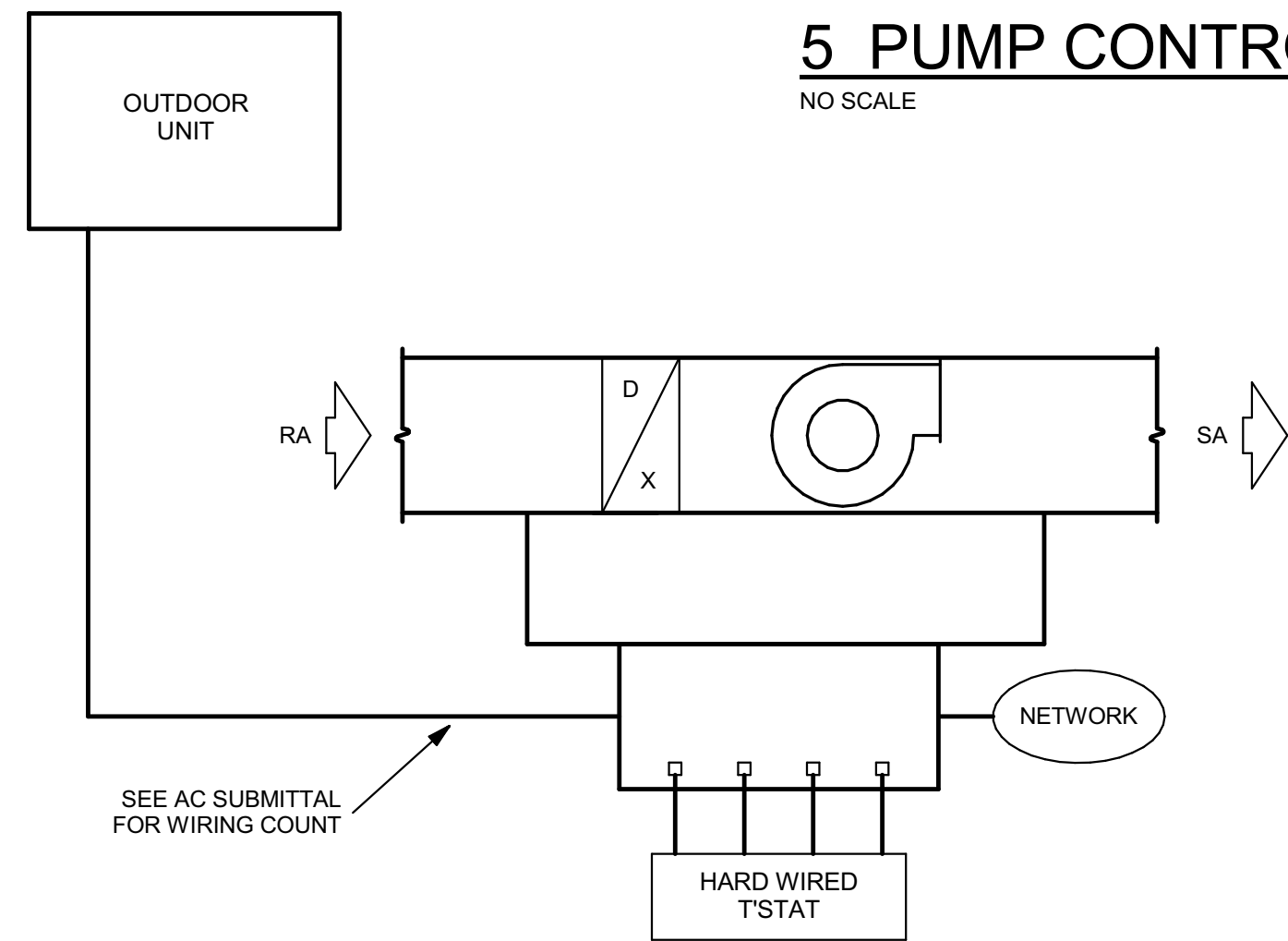
9/11/2019

D4002 San Ramon Campus Expansion - Library / Learning Resource Center - M&V Points List

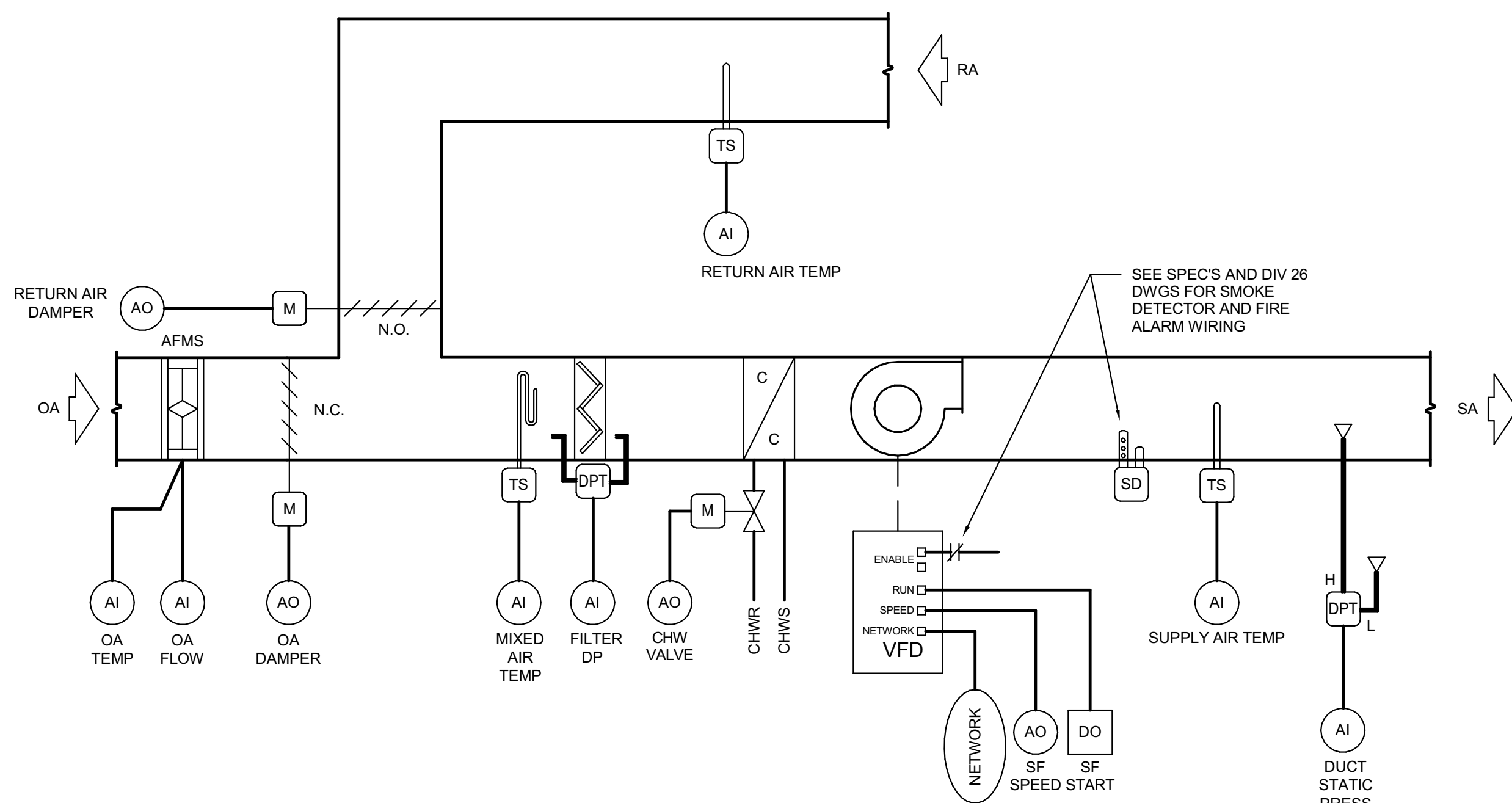
| Point # | Meter Name/Type | Circuit | Load* | electrical (kWh, kW)** | btu | End Use |
|---------|-----------------|-----------------------------|---------------------------------|------------------------|-----|-------------------|
| 1 | BTU-CHW | | Central Plant Chilled Water | | ü | CHILLED WATER |
| 2 | BTU-HHW | | Central Plant Heating Hot Water | | ü | HEATING HOT WATER |
| 3 | Panel LLRC-1 | Receptacles Rm 01A | | ü | | PLUG LOADS |
| 4 | Panel LLRC-2 | Receptacles Rm 01B | | ü | | PLUG LOADS |
| 5 | Panel LLRC-3 | Receptacles Rm 01A, 01 | | ü | | PLUG LOADS |
| 6 | Panel LLRC-4 | Receptacles Rm 01B, 01 | | ü | | PLUG LOADS |
| 7 | Panel LLRC-5 | Receptacles Rm 02 | | ü | | PLUG LOADS |
| 8 | Panel LLRC-6 | Receptacles Rm 01B | | ü | | PLUG LOADS |
| 9 | Panel LLRC-7 | Receptacles Rm 02 | | ü | | PLUG LOADS |
| 10 | Panel LLRC-8 | Receptacles Rm 01 | | ü | | PLUG LOADS |
| 11 | Panel LLRC-9 | Receptacles Rm 03, 04 | | ü | | PLUG LOADS |
| 12 | Panel LLRC-10 | Receptacles Rm 01 | | ü | | PLUG LOADS |
| 13 | Panel LLRC-11 | Receptacles Rm 05, 06 | | ü | | PLUG LOADS |
| 14 | Panel LLRC-12 | Receptacles Rm 01 | | ü | | PLUG LOADS |
| 15 | Panel LLRC-13 | Copier Rm 07 | | ü | | PLUG LOADS |
| 16 | Panel LLRC-14 | Receptacles Rm 20 | | ü | | PLUG LOADS |
| 17 | Panel LLRC-15 | Printer Rm 07 | | ü | | PLUG LOADS |
| 18 | Panel LLRC-16 | Receptacles Rm 20 | | ü | | PLUG LOADS |
| 19 | Panel LLRC-17 | Receptacles Rm 07 | | ü | | PLUG LOADS |
| 20 | Panel LLRC-18 | Receptacles Rm 20 | | ü | | PLUG LOADS |
| 21 | Panel LLRC-19 | Receptacles Rm 20 | | ü | | PLUG LOADS |
| 22 | Panel LLRC-20 | Receptacles Rm 20 | | ü | | PLUG LOADS |
| 23 | Panel LLRC-21 | Receptacles Rm 20 | | ü | | PLUG LOADS |
| 24 | Panel LLRC-22 | Receptacles Rm 20 | | ü | | PLUG LOADS |
| 25 | Panel LLRC-23 | Receptacles Rm 20 | | ü | | PLUG LOADS |
| 26 | Panel LLRC-24 | Receptacles Rm 20 | | ü | | PLUG LOADS |
| 27 | Panel LLRC-25 | Receptacles Rm 08 | | ü | | PLUG LOADS |
| 28 | Panel LLRC-26 | Receptacles Rm 20 | | ü | | PLUG LOADS |
| 29 | Panel LLRC-27 | Receptacles Rm 08 | | ü | | PLUG LOADS |
| 30 | Panel LLRC-28 | Receptacles Rm 20 | | ü | | PLUG LOADS |
| 31 | Panel LLRC-29 | Printer Rm 08 | | ü | | PLUG LOADS |
| 32 | Panel LLRC-30 | Receptacles Rm 20 | | ü | | PLUG LOADS |
| 33 | Panel LLRC-31 | Receptacles Rm 09 | | ü | | PLUG LOADS |
| 34 | Panel LLRC-32 | Receptacles Rm 20 | | ü | | PLUG LOADS |
| 35 | Panel LLRC-33 | Laptop Charging Cart Rm 10 | | ü | | PLUG LOADS |
| 36 | Panel LLRC-34 | Receptacles Rm 20 | | ü | | PLUG LOADS |
| 37 | Panel LLRC-35 | IT Rack | | ü | | PLUG LOADS |
| 38 | Panel LLRC-36 | Receptacles Rm 20 | | ü | | PLUG LOADS |
| 39 | Panel LLRC-37 | Receptacles Rm 11, 14 | | ü | | PLUG LOADS |
| 40 | Panel LLRC-38 | Receptacles Rm 200 | | ü | | PLUG LOADS |
| 41 | Panel LLRC-39 | Receptacles Exterior | | ü | | PLUG LOADS |
| 42 | Panel LLRC-40 | Spare | | ü | | N/A |
| 43 | Panel LLRC-41 | Spare | | ü | | N/A |
| 44 | Panel LLRC-42 | Spare | | ü | | N/A |
| 45 | Panel LLRC-43 | Auto Doors | | ü | | PLUG LOADS |
| 46 | Panel LLRC-44 | Fire Bell | | ü | | PLUG LOADS |
| 47 | Panel LLRC-45 | Auto Doors | | ü | | PLUG LOADS |
| 48 | Panel LLRC-46 | Spare | | ü | | N/A |
| 49 | Panel LLRC-47 | Pressure Relief Louvers | | ü | | PLUG LOADS |
| 50 | Panel LLRC-48 | Spare | | ü | | N/A |
| 51 | Panel LLRC-49 | Pressure Relief Louvers | | ü | | PLUG LOADS |
| 52 | Panel LLRC-50 | Spare | | ü | | N/A |
| 53 | Panel LLRC-51 | MotORIZED Projection Screen | | ü | | PLUG LOADS |
| 54 | Panel LLRC-52 | Spare | | ü | | N/A |
| 55 | Panel LLRC-53 | Spare | | ü | | N/A |
| 56 | Panel LLRC-54 | Spare | | ü | | N/A |
| 57 | Panel LLRC-55 | Spare | | ü | | N/A |
| 58 | Panel LLRC-56 | Spare | | ü | | N/A |
| 59 | Panel LLRC-57 | Spare | | ü | | N/A |
| 60 | Panel LLRC-58 | Spare | | ü | | N/A |
| 61 | Panel LLRC-59 | Spare | | ü | | N/A |
| 62 | Panel LLRC-60 | LLRC - Inverter | | ü | | INT. LTG. |
| 63 | Panel LLRC-61 | Ballards | | ü | | EXT. LTG. |
| 64 | Panel LLRC-62 | LLRC - Lighting East | | ü | | INT. LTG. |
| 65 | Panel LLRC-63 | LLRC Lighting Exterior | | ü | | EXT. LTG. |
| 66 | Panel LLRC-64 | LLRC - Lighting Center | | ü | | INT. LTG. |
| 67 | Panel LLRC-65 | Spare | | ü | | N/A |
| 68 | Panel LLRC-66 | LLRC - Lighting West | | ü | | INT. LTG. |
| 69 | Panel LLRC-67 | Spare | | ü | | N/A |
| 70 | Panel LLRC-68 | LLRC - Lighting Alcoves | | ü | | INT. LTG. |
| 71 | Panel LLRC-69 | Spare | | ü | | N/A |
| 72 | Panel LLRC-70 | Spare | | ü | | N/A |
| 73 | Panel LLRC-71 | FC-1 (phase c) | | ü | | HVAC |
| 74 | Panel LLRC-72 | Spare | | ü | | N/A |
| 75 | Panel LLRC-73 | FC-1 (phase a) | | ü | | HVAC |
| 76 | Panel LLRC-74 | CHWP-1 (phase a) | | ü | | HVAC |
| 77 | Panel LLRC-75 | CU-1 (phase b) | | ü | | HVAC |
| 78 | Panel LLRC-76 | CHWP-1 (phase b) | | ü | | HVAC |
| 79 | Panel LLRC-77 | CU-1 (phase c) | | ü | | HVAC |
| 80 | Panel LLRC-78 | CHWP-1 (phase c) | | ü | | HVAC |
| 81 | Panel LLRC-79 | AHU-8 (phase a) | | ü | | HVAC |
| 82 | Panel LLRC-80 | HWP-1 (phase a) | | ü | | HVAC |
| 83 | Panel LLRC-81 | AHU-8 (phase b) | | ü | | HVAC |
| 84 | Panel LLRC-82 | HWP-1 (phase b) | | ü | | HVAC |
| 85 | Panel LLRC-83 | AHU-8 (phase c) | | ü | | HVAC |
| 86 | Panel LLRC-84 | HWP-1 (phase c) | | ü | | HVAC |



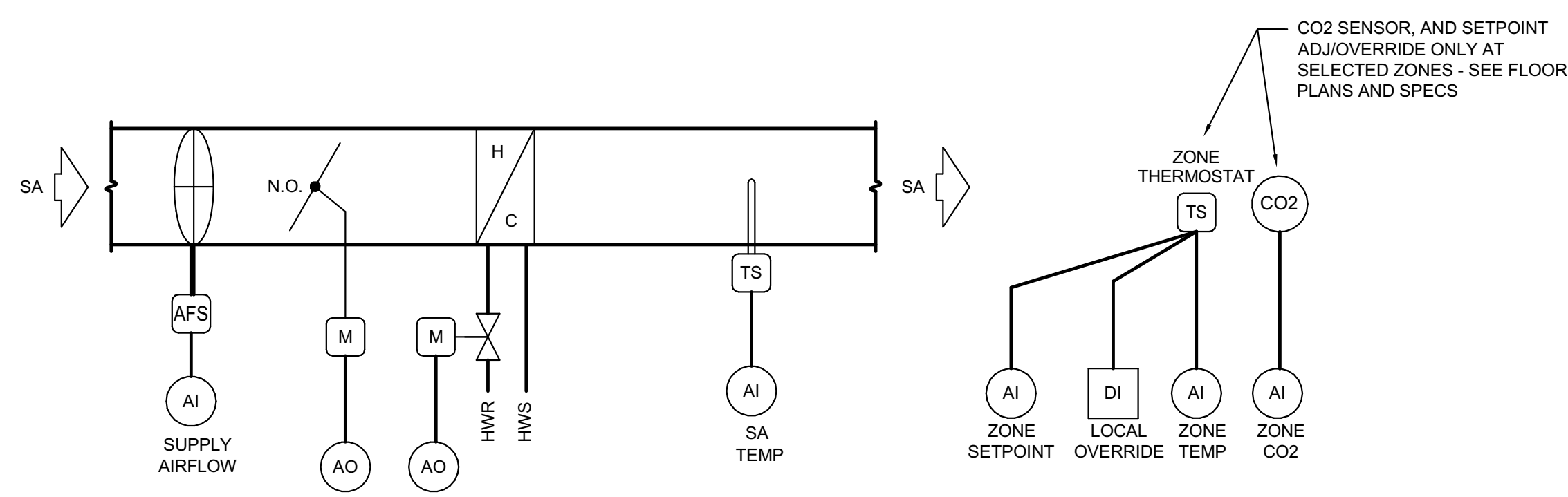
5 PUMP CONTROL DIAGRAM (VFD)
NO SCALE



3 SPLIT AC UNIT OR HEAT PUMP W/BACNET CONNECTION
NO SCALE



3 VAV AIR HANDLER (AHU-8) WITH MULTIPLE ZONES
NO SCALE



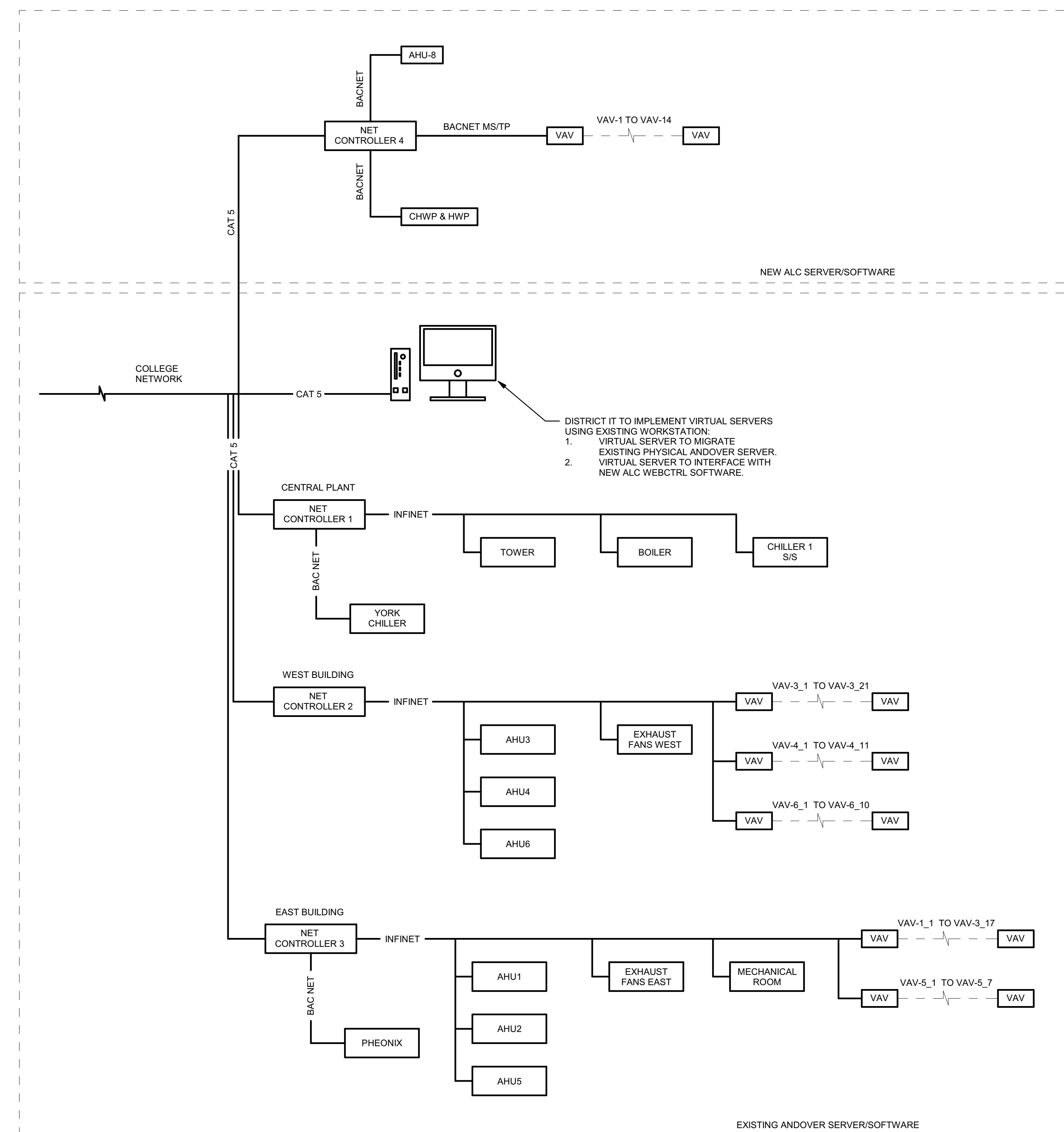
4 VAV RH ZONE CONTROL DIAGRAM
NO SCALE

ANDOVER/ALC SCOPE

EXISTING BAS SYSTEM SERVING BUILDINGS IN CAMPUS IS AN ANDOVER SYSTEM AND IT WILL MIGRATE TO ANDOVER VIRTUAL SERVER PROVIDED BY CAMPUS AND DISTRICT IT. ALC CONTROLS SYSTEM WILL BE IMPLEMENTED IN THE NEW LIBRARY BUILDING AND WILL USE A VIRTUAL SERVER (WITH HARDWARE PROVIDED BY CAMPUS IT) FOR FRONT END FUNCTIONS. THE EXTEND INTEGRATION/INTERCONNECTION OF THE TWO SYSTEMS CONSISTS OF: THE NEW ALC CONTROLS SYSTEM WILL PROVIDE HEATING AND COOLING "REQUESTS" TO THE ANDOVER SYSTEM FOR CONTROL OF CAMPUS CHW AND HHW SYSTEMS.

FOR ANDOVER CONTROLS SCOPE REFER TO SPECIFICATIONS SECTION 23 09 00 AND CONTROL DAIGRAMS SHEET M6.01.2.

FOR ALC CONTROLS SCOPE REFER TO SPECIFICATIONS SECTION 25 00 00 AND CONTROL DAIGRAMS SHEET M6.02.2.



1 ANDOVER/ALC CONTROLS INTERCONNECTION DIAGRAM

NO SCALE

ELECTRICAL SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

| | |
|---------|---|
| (E) | EXISTING |
| (R) | RELOCATE |
| (RL) | LOCATION OF RELOCATED DEVICE |
| (X) | DEMOLISH |
| A | AMPERES, AMBER |
| AF | ABOVE FINISHED CEILING |
| AFF | ABOVE FINISHED FLOOR |
| AHJ | AUTHORITY HAVING JURISDICTION |
| AIC | AVAILABLE INTERRUPTING CAPACITY |
| ANSI | AMERICAN NATIONAL STANDARDS INSTITUTE |
| AWG | AMERICAN WIRE GAUGE |
| BAS | BUILDING AUTOMATION SYSTEM |
| C | CONDUIT, CLOSE, CONTROL |
| CA | CABLE |
| CAT | CATEGORY |
| CLG | CEILING |
| COORD | COORDINATE |
| CU | COPPER |
| dB | DECIBEL |
| EL | ELEVATOR |
| EM | EMERGENCY LIGHT |
| EMT | ELECTRICAL METALLIC TUBING |
| FA | FIRE ALARM |
| FBO | FURNISHED BY OTHERS |
| FMC | FLEXIBLE METAL CONDUIT |
| FT | FOOT, FEET |
| G, GND | GROUND |
| GFCI | GROUND FAULT CIRCUIT INTERRUPTER |
| GF | GROUND FAULT INTERRUPTER |
| GFP | GROUND FAULT PROTECTION |
| HT | HEIGHT |
| ID | IDENTIFICATION |
| IEEE | INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS |
| IG | ISOLATED GROUND |
| IN | INCH, INCHES |
| KV | KILOVOLT |
| KVA | KILOVOLT AMPERES |
| KW | KILOWATT |
| LED | LIGHT EMITTING DIODE |
| LFMC | LIQUIDTIGHT FLEXIBLE METAL CONDUIT |
| LV | LOW VOLTAGE |
| MCA | MINIMUM CIRCUIT AMPS |
| MCC | MOTOR CONTROL CENTER |
| MIN | MINIMUM |
| MISC | MISCELLANEOUS |
| MOCAP | MAXIMUM OVERCURRENT PROTECTION |
| MT, MTD | MOUNT, MOUNTED |
| N | NEUTRAL |
| N.I.C. | NOT IN CONTRACT |
| N/A | NOT APPLICABLE |
| NEC | NATIONAL ELECTRIC CODE |
| NEMA | NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION |
| NESC | NATIONAL ELECTRICAL SAFETY CODE |
| NTS | NOT TO SCALE |
| OC | ON CENTER |
| OFCI | OWNER FURNISHED, CONTRACTOR INSTALLED |
| PH | PHASE |
| PHL | PANEL |
| PVC | POLY-VINYL-CHLORIDE |
| PWR | POWER |
| QTY | QUANTITY |
| REQD | REQUIRED |
| RFI | REQUEST FOR INFORMATION |
| RM | ROOM |
| RMC | RIGID METAL CONDUIT |
| SHT | SHEET |
| SPD | SURGE PROTECTION DEVICE |
| STD | STANDARD |
| SWBD | SWITCHBOARD |
| TBD | TO BE DETERMINED |
| TVSS | TRANSIENT VOLTAGE SURGE SUPPRESSOR |
| TYP | TYPICAL |
| UL | UNDERWRITERS LABORATORIES |
| UN | UNLESS OTHERWISE NOTED |
| UPS | UNINTERRUPTIBLE POWER SUPPLY |
| V | VOLTS, VOLTAGE |
| W | WITH |
| WO | WITHOUT |
| WP | WEATHERPROOF |
| XFMR | TRANSFORMER |

Connections / Equipment

| | |
|--|--|
| | AUTOMATIC DOOR OPERATOR |
| | CEILING MOUNTED JUNCTION BOX / FLOOR MOUNTED JUNCTION BOX |
| | COMBINATION ADJUSTABLE FREQUENCY DRIVE WITH SAFETY DISCONNECT SWITCH |
| | COMBINATION MOTOR STARTER/FUSED DISCONNECT SWITCH |
| | HEAVY DUTY FUSED DISCONNECT SWITCH |
| | MOTOR CONNECTION |
| | NON-FUSED DISCONNECT SWITCH |
| | TRANSFORMER |
| | FIRE SMOKE DAMPER |
| | SMOKE DAMPER |
| | WALL-MOUNTED JUNCTION BOX |

General

| | |
|--|--|
| | DETAIL NUMBER AND SHEET LOCATION |
| | EQUIPMENT IDENTIFICATION |
| | FOOD SERVICE EQUIPMENT / CALCULATION TAG |
| | KEYED NOTE |
| | DEMOLISH |
| | EXISTING WORK |
| | NEW WORK |

Lighting

| | |
|--|--|
| | EXIT SIGN CEILING MOUNTED, ARROW(S) INDICATES DIRECTION IF SHOWN |
| | EXIT SIGN WALL MOUNTED, ARROW(S) INDICATES DIRECTION IF SHOWN |
| | RECESSED 2' X 2' LUMINAIRE |
| | RECESSED 2' X 4' LUMINAIRE |
| | RECESSED 2' X 4' LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT |
| | RECESSED LUMINAIRE |
| | SURFACE MOUNTED 2' X 2' LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT |
| | SURFACE MOUNTED 2' X 4' LUMINAIRE |
| | SURFACE MOUNTED 2' X 4' LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT |
| | SURFACE OR PENDANT MOUNTED 6' X 8' LUMINAIRE |
| | SURFACE OR PENDANT MOUNTED LUMINAIRE |
| | SURFACE OR PENDANT MOUNTED LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT |
| | SURFACE OR PENDANT MOUNTED STRIPLIGHT |
| | TRACKLIGHT WITH LUMINAIRE(S) |
| | WALL MOUNTED 6' WIDE LUMINAIRE |
| | WALL MOUNTED LUMINAIRE |

| | |
|--|--|
| | WALL MOUNTED LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT |
| | AREA LUMINAIRE POLE TOP MOUNTED WITH POLE AND CONCRETE BASE |

Miscellaneous

| | |
|--|--|
| | BRANCH CIRCUIT WIRING, ARROW INDICATES HOME RUN TO PANEL, WITH CIRCUITS AS NOTED, WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS, LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR, SECOND CURVED TICK MARK INDICATES 'ISOLATED GROUND' (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR. |
| | BRANCH PANEL |
| | CIRCUIT BREAKER |
| | FLUSH WALL MOUNTED BRANCH PANEL |
| | MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL |
| | PULL BOX |
| | CONDUIT CONCEALED IN WALL OR CEILING SPACE |
| | CONDUIT ROUTED BELOW FLOOR / GRADE |
| | CONDUIT ELLED DOWN |
| | CONDUIT ELLED UP |
| | CONDUIT/WIRING CONTINUATION |
| | CONDUIT/WIRING STUBBED OUT WITH END CAP OR INSULATED PLASTIC BUSHING |
| | FLEXIBLE CONDUIT |

Switches and Receptacles

| | |
|--|--|
| | COMBINATION DOUBLE DUPLEX RECEPTACLE AND COMMUNICATIONS OUTLET, FLUSH FLOOR. REFER TO TELECOM DRAWINGS FOR CONDUIT SIZE REQUIREMENTS. COORDINATE WITH DIVISION 27. |
| | DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS) A = ABOVE COUNTER B = CLOCK HANGER C = FLUSH CEILING MOUNTED E = EMERGENCY F = ARC FAULT PROTECTED BY BREAKER IN PANEL G = GROUND FAULT CIRCUIT INTERRUPTER H = HOSPITAL GRADE K = CHILD RESISTANT COVER L = ISOLATED GROUND P = PENDANT MOUNTED WITH CORD GRIPS, VERIFY PENDANT LENGTH R1 = HALF SWITCHED BY OCCUPANCY SENSOR RELAY R2 = FULLY SWITCHED BY OCCUPANCY SENSOR RELAY S = SPLIT WIRED T = TAMPER RESISTANT SHUTTERED RECEPTACLE U = USB PORT(S) W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE |
| | DUPLEX RECEPTACLE, FLUSH FLOOR |
| | DOUBLE DUPLEX RECEPTACLE, FLUSH FLOOR |
| | DOUBLE DUPLEX RECEPTACLE. SEE LETTER CODE LIST AT DUPLEX RECEPTACLE FOR OPTIONS |
| | SPECIAL PURPOSE RECEPTACLE. LETTER CODE DENOTES RECEPTACLE CONFIGURATION LX-XXR = NEMA CONFIGURATION TWIST-LOCK RECEPTACLE X-XXR = NEMA CONFIGURATION STRAIGHT BLADE RECEPTACLE P = PENDANT MOUNT WITH CORD GRIPS, VERIFY PENDANT LENGTH X = COORDINATE RECEPTACLE CONFIGURATION WITH EQUIPMENT BEING SUPPLIED CEILING MOUNTED OCCUPANCY SENSOR P = PASSIVE INFRARED D = DUAL TECHNOLOGY U = ULTRASONIC, 360 DEG RANGE H = ULTRASONIC, HALLWAY PATTERN v (LOWERCASE) = VACANCY CONTROL DESIGNATION WALL MOUNTED OCCUPANCY SENSOR P = PASSIVE INFRARED D = DUAL TECHNOLOGY v (LOWERCASE) = VACANCY CONTROL DESIGNATION WALL MOUNTED OCCUPANCY SENSOR/ SWITCH S = PASSIVE INFRARED WITH INTEGRAL "OFF" SWITCH T = DUAL RELAY PASSIVE INFRARED WITH TWO INTEGRAL "OFF" SWITCHES D = PASSIVE INFRARED WITH INTEGRAL DIMMER TO OFF, v (LOWERCASE) = VACANCY CONTROL DESIGNATION |
| | PHOTO ELECTRIC SWITCH D = CONTINUOUS DIMMING PHOTOCELL S = SWITCHED PHOTOCELL |
| | SINGLE POLE SWITCH 2 = DOUBLE POLE SWITCH 3 = THREE-WAY SWITCH 4 = FOUR-WAY SWITCH # THRU (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION D = DIMMER F = FAN SPEED CONTROL K = KEY OPERATED SWITCH L = LIGHTED HANDLE M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD P = SWITCH WITH PILOT LIGHT S = SENTRY SWITCH T = INTERVAL TIMER W = WEATHERPROOF SWITCH V = LOW VOLTAGE SWITCH |

GENERAL ELECTRICAL NOTES

- A. DO NOT COMMENCE INSTALLATION OF ELECTRICAL SYSTEMS AND EQUIPMENT WITHOUT RELATED SHOP DRAWING APPROVALS.
- B. ELECTRICAL CIRCUITS SHALL BE INTERRUPTED ONLY WITH PRIOR WRITTEN CONSENT. SUCH INTERRUPTIONS SHALL BE PRECEDED BY ALL POSSIBLE PREPARATIONS BY THE CONTRACTOR WHICH ARE NECESSARY TO KEEP THE ELECTRICAL CIRCUITS OFF FOR A MINIMUM PERIOD IN AN EXPEDITIOUS MANNER PURSUANT WITH GOOD WORKMANSHIP. THIS INCLUDES CIRCUIT TRACING TO IDENTIFY THE ELECTRICAL LOAD BEING SERVED AND THE ORIGIN OF THE CIRCUIT.
- C. COORDINATE WITH OWNER SO THAT WORK CAN BE SCHEDULED NOT TO INTERRUPT OPERATIONS, NORMAL ACTIVITIES, BUILDING ACCESS, ACCESS TO DIFFERENT AREAS. THE OWNER WILL COOPERATE TO THE BEST OF THEIR ABILITY TO ASSIST IN A COORDINATED SCHEDULE, BUT WILL REMAIN THE FINAL AUTHORITY AS TO TIME OF WORK PERMITTED.
- D. ALL WORK ON SERVICE CONDUCTORS, FEEDERS, AND OTHER SUCH EQUIPMENT SHALL BE DONE ONLY WHEN SUCH CONDUCTORS, FEEDERS, AND EQUIPMENT ARE DE-ENERGIZED. THE CONTRACTOR SHALL HAVE AN "ELECTRICAL SAFETY AND LOCK-OUT/TAG-OUT PROCEDURE" IN PLACE PRIOR TO COMMENCEMENT OF WORK.
- E. REMOVE AND RESTORE WIRING WHICH SERVES USABLE EXISTING OUTLETS CLEAR OF THE CONSTRUCTION OR DEMOLITION.
- F. IF EXISTING JUNCTION BOXES WILL BE MADE INACCESSIBLE, OR IF ABANDONED OUTLETS SERVE AS FEED THROUGH BOXES FOR OTHER EXISTING ELECTRICAL EQUIPMENT WHICH IS BEING RETAINED, PROVIDE NEW CONDUIT AND WIRE TO BYPASS THE ABANDONED OUTLETS.
- G. IF EXISTING CONDUITS PASS THROUGH PARTITIONS OR CEILING WHICH ARE BEING REMOVED OR REMODELED, PROVIDE NEW CONDUIT AND WIRE TO REROUTE CLEAR OF THE CONSTRUCTION OR DEMOLITION AND MAINTAIN SERVICE TO THE EXISTING LOAD.
- H. CONCEALED CONDUIT LOCATED IN CONCRETE WALLS OR HARDBOARD CEILING SPACES MAY BE ABANDONED IN PLACE. REMOVE CONDUCTORS AND TAG ABANDONED CONDUITS WITH CORRESPONDING SYSTEM AND TERMINATION POINT. CUT AND CAP ABANDONED CONDUIT. DO NOT EXEND STUBS ABOVE FINISHED FLOOR.
- I. EXTEND CIRCUITING AND DEVICES IN EXISTING WALLS TO BE FURRED OUT.
- J. PROVIDE TEMPORARY SUPPORT FOR ELECTRICAL SYSTEMS THAT REMAIN IN PLACE.
- K. REMOVE ABANDONED WIRING TO LEAVE SITE CLEAN.
- L. PROVIDE BLANK COVER PLATE FOR ABANDONED FLUSH OUTLETS.
- M. MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL AS APPROPRIATE.
- N. WHERE DRAWINGS INDICATE EXISTING ELECTRICAL EQUIPMENT OR DEVICES TO BE RELOCATED AND/OR REUSED, REFINISH THEM THOROUGHLY CLEAN SUCH ITEMS. NOTIFY ARCHITECT OF ANY DEFECTS IN SUCH INSTALLATIONS. REPAIR ANY DAMAGE CAUSED BY DEMOLITION OR CONSTRUCTION PERFORMED UNDER THIS CONTRACT.
- O. PROVIDE UPDATED PANEL SCHEDULES AND DIRECTORIES THAT IDENTIFY EXISTING CIRCUITS AND NUMBER OF SPARE CIRCUITS AVAILABLE UPON COMPLETION OF DEMOLITION WORK.
- P. PROVIDE SUITABLE ANCHORAGE AND SUPPORT FOR ELECTRICAL EQUIPMENT IN RATED WALLS, SLABS AND CEILINGS. MOUNT DEVICES AND RACEWAYS IN ACCORDANCE WITH ESTABLISHED CODES AND SPECIFICATIONS.
- Q. CONNECT EQUIPMENT AND DEVICES FURNISHED UNDER OTHER DIVISIONS OF THIS CONTRACT, BY OWNER OR BY OTHER CONTRACTS.
- R. UNLESS OTHERWISE NOTED, PROVIDE CONCEALED AND FLUSH MOUNTED INSTALLATION OF DEVICES AND EQUIPMENT IN AREAS.
- S. PROVIDE SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN 120 VOLT, MULTI-WIRE CIRCUITS.
- T. FOR 120 VOLT, 20 AMP CIRCUITS, WHERE CIRCUIT DISTANCE FROM PANELBOARD TO FARTHEST DEVICE/FIXTURE EXCEEDS 75 FEET, PROVIDE #10 SIZE CONDUCTOR.
- U. RUN ELECTRICAL CONDUIT CONCEALED AND PARALLEL TO BUILDING LINES. VERIFY WITH ARCHITECT.
- V. RECEPTACLE OUTLETS SHALL COMPLY WITH NEC SECTION 210.7.
- W. LIGHTS, SWITCHES AND CONTROL MECHANISMS SHALL COMPLY WITH NEC SECTION 404.
- X. BRACE ELECTRICAL EQUIPMENT TO RESIST A HORIZONTAL FORCE THAT ACT IN ANY DIRECTION. COMPLY WITH TITLE 24 REQUIREMENTS.
- Y. INSTALL COMPLETE SYSTEM OF CONDUCTORS IN RACEWAY SYSTEM THROUGHOUT BUILDING FOR FEEDERS, BRANCH CIRCUITS, ETC.
- Z. DESIGN OF TEMPORARY POWER FOR CONSTRUCTION SHALL BE THE CONTRACTOR'S RESPONSIBILITY. REMOVE TEMPORARY POWER PRIOR TO COMPLETION OF PROJECT. COORDINATE WITH DIVISION 01 SPECIFICATIONS.
- AA. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CONDUIT TRENCHING WITH OTHER DISCIPLINES TO AVOID CONFLICT.
- BB. MINIMUM SIZE FOR EXTERIOR BELOW GRADE CONDUIT SHALL BE 1".
- CC. PROVIDE A TRANSPARENT, INSULATED, INNER DOOR AS A SAFETY BARRIER IN FRONT OF THE TERMINATION SECTION FOR ALL MEDIUM VOLTAGE SWITCHBOARDS AS REQUIRED BY PG&E. DOOR CONSTRUCTION SHALL COMPRISE OF A SOLID PIECE OF CLEAR ACRYLIC THAT IS 1/4" THICK AND RESISTANT TO DAMAGE BY IMPACT OR PUNCTURE. ENSURE THE ACRYLIC IS RATED FOR THE VOLTAGE SERVED. SAFETY DOOR SHALL EXTEND A MINIMUM OF 10" BELOW THE TERMINATING BUS AND MUST COVER ALL ENERGIZED PARTS ON THE SWITCHBOARD. THE ACRYLIC DOOR MUST BE OPERABLE WITH HINGES ON ONE SIDE, AND A HANDLE AND PROVISIONS TO SECURE THE DOOR IN THE OPEN AND CLOSED POSITIONS ON THE OPPOSITE SIDE.
- DD. REMOVE EXISTING LUMINAIRES, SWITCHES, RECEPTACLES, AND OTHER ELECTRICAL EQUIPMENT AND DEVICES AND ASSOCIATED WIRING FROM WALLS, CEILINGS, FLOORS, AND OTHER SURFACES SCHEDULED FOR REMODELING, RELOCATION, OR DEMOLITION UNLESS SHOWN AS RETAINED OR RELOCATED ON DRAWINGS.
- EE. MAINTAIN ELECTRICAL CONTINUITY OF EXISTING SYSTEMS. REMOVE OR RELOCATE ELECTRICAL BOXES, CONDUIT, WIRING, EQUIPMENT, LUMINAIRES, AND THE LIKE, AS REQUIRED IN REMOVED OR REMODELED AREAS IN THE EXISTING CONSTRUCTION AFFECTED BY THIS WORK.
- FF. VERIFY EXACT LOCATION AND NUMBER OF EXISTING ELECTRICAL OUTLETS AND LUMINAIRES IN THE FIELD. LOCATIONS OF ITEMS SHOWN ON DRAWINGS AS EXISTING ARE PARTIALLY BASED ON RECORDS AND OTHER DRAWINGS WHICH MAY CONTAIN ERRORS. VERIFY THE ACCURACY OF THE INFORMATION SHOWN PRIOR TO BIDDING AND PROVIDE SUCH LABOR AND MATERIAL AS IS NECESSARY TO ACCOMPLISH THE INTENT OF THE CONTRACT DOCUMENTS.
- GG. OFFER REMOVED LUMINAIRES, WIRING DEVICES, PANELBOARDS AND EQUIPMENT TO THE OWNER, IF OWNER CHOOSES TO RETAIN THESE ITEMS. RETURN SUCH ITEMS TO OWNER, CAREFULLY REMOVE AND DISPOSE OF ITEMS REJECTED BY OWNER FROM PROJECT SITE AND IN A LEGAL MANNER.
- HH. EXISTING LIGHTING WHICH IS TO REMAIN OR BE RELOCATED IS TO BE CLEANED. LEAVE ALL LUMINAIRES IN PROPER WORKING ORDER. REPLACE DAMAGED OR BROKEN LENS AND/OR COMPONENTS.
- II. RECONNECT EXISTING LUMINAIRES NOT SHOWN ON DRAWINGS AND AFFECTED DUE TO DEMOLITION TO NEAREST AVAILABLE EXISTING LIGHTING CIRCUIT ABLE TO TAKE THE ADDITIONAL LOAD.
- JJ. PROVIDE UNSWITCHED HOT CONDUCTOR TO EMERGENCY (DRIVER OF SWITCHED LUMINAIRES TO PREVENT SWITCHOVER TO BATTERY OPERATION WHEN LUMINAIRES ARE SWITCHED TO THE OFF POSITION.
- KK. OCCUPANCY SENSOR NOTES:
 - a. WALL SENSORS
 - 1. SENSOR MUST HAVE CLEAR "VIEW" OF OCCUPANTS, WHERE SENSOR WILL BE BLOCKED, SUBSTITUTE WITH SMALL-ROOM CEILING SENSOR.
 - 2. SEE MANUFACTURER'S SPECIFICATION REGARDING PLACING SENSORS AWAY FROM STRONG AIR-FLOW. INDICATE PRECISE LOCATION OF EACH CEILING SENSOR WHERE DRAWINGS INDICATE AIR SUPPLIES.
 - 3. IN INDIVIDUAL ROOMS WITH CEILING SENSORS AND DUAL-LEVEL LIGHTING, ASSUME TWO TOGGLE SWITCH OVERRIDES PER ROOM.
 - 4. PRIOR TO INSTALLATION, RECEIVE FACTORY-TRAINING AND LAYOUT-ASSISTANCE. IF LOCAL AGENT CHANGES LIGHTING DRAWINGS, CONTACT FACTORY REPRESENTATIVE.
- LL. PROVIDE ALL BACKBOXES, FLOOR BOXES, FLOOR TRENCH DUCT, GROUNDING SYSTEM, PULL BOXES, CONDUITS, CABLING, AND CABLE TRAYS ER TELECOM/SECURITY DRAWINGS AND SPECIFICATIONS. REFER TO TELECOM/SECURITY DRAWINGS FOR QUANTITY AND LOCATIONS. PROVIDE ALL APPURTENANCES FOR A COMPLETE INSTALLATION.
- MM. ALL IAC RATINGS SHOWN ARE MINIMUM REQUIREMENTS. COORDINATE AND UPGRADE RATINGS FOR ALL DISTRIBUTION EQUIPMENT AS PER SHORT CIRCUIT ANALYSIS RECOMMENDATIONS.
- NN. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- OO. DRAWINGS AND SPECIFICATIONS COMPLIMENT EACH OTHER. REQUIREMENT BY EITHER INFERS REQUIREMENT BY BOTH.
- PP. REFER TO ARCHITECTURAL DETAIL 6/G3.21.0 FOR ELECTRICAL DEVICE MOUNTING HEIGHTS.

DSA COMPONENT ANCHORAGE NOTES

- A. ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26, AND ASC 7-10 CHAPTER 13, 26, AND 30.
 1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
 2. TEMPORARY OR MOVEABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
 3. MOVEABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.
- B. THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENTS AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
 1. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
 2. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.
- C. FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

- A. PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASC 7-10 SECTION 13.3 AS DEFINED IN ASC 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6, AND 2016 CBC, SECTIONS 1616A.1.23, 1616A.1.25 AND 1616A.1.26.
- B. THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPM-0043-13).
- C. COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.

SHEET INDEX

| | |
|----------|---|
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| E0.03.2 | TITLE 24 - LLRC INCREMENT 2 |
| E0.04.2 | TITLE 24 - LLRC INCREMENT 2 |
| E0.05.2 | TITLE 24 - CAFE INCREMENT 2 |
| E2.30A.2 | 1ST FLOOR OVERALL PLAN - ELECTRICAL |
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| E5.05.2 | DETAILS - LIGHTING CONTROLS |
| E5.06.2 | DETAILS - LIGHTING CONTROLS |

These Record Documents have been prepared based on information provided by others. The design professional has not verified the accuracy and/or completeness of this information and shall not be responsible for any error or omissions which may be incorporated herein as a result.

APPROVALS

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PROJECT TITLE

CONTRA COSTA
CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION & RENOVATION

1690 Watermill Rd.
San Ramon, CA 94582

RECORD SET:

THESE DRAWINGS HAVE BEEN PREPARED FROM ADDENDUMS, CCD'S, ASIS AND SELECT RFIS OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM. ONLY A SELECT FEW AS-BUILTS WERE SUBMITTED.

ISSUE TITLE

INCREMENT 2

ISSUE DATE **08/22/2023**

NOLL & TAM JOB NUMBER **21630**

REVISIONS
NO. | DATE | DESCRIPTION

SHEET TITLE

SYMBOLS LIST AND GENERAL NOTES - ELECTRICAL

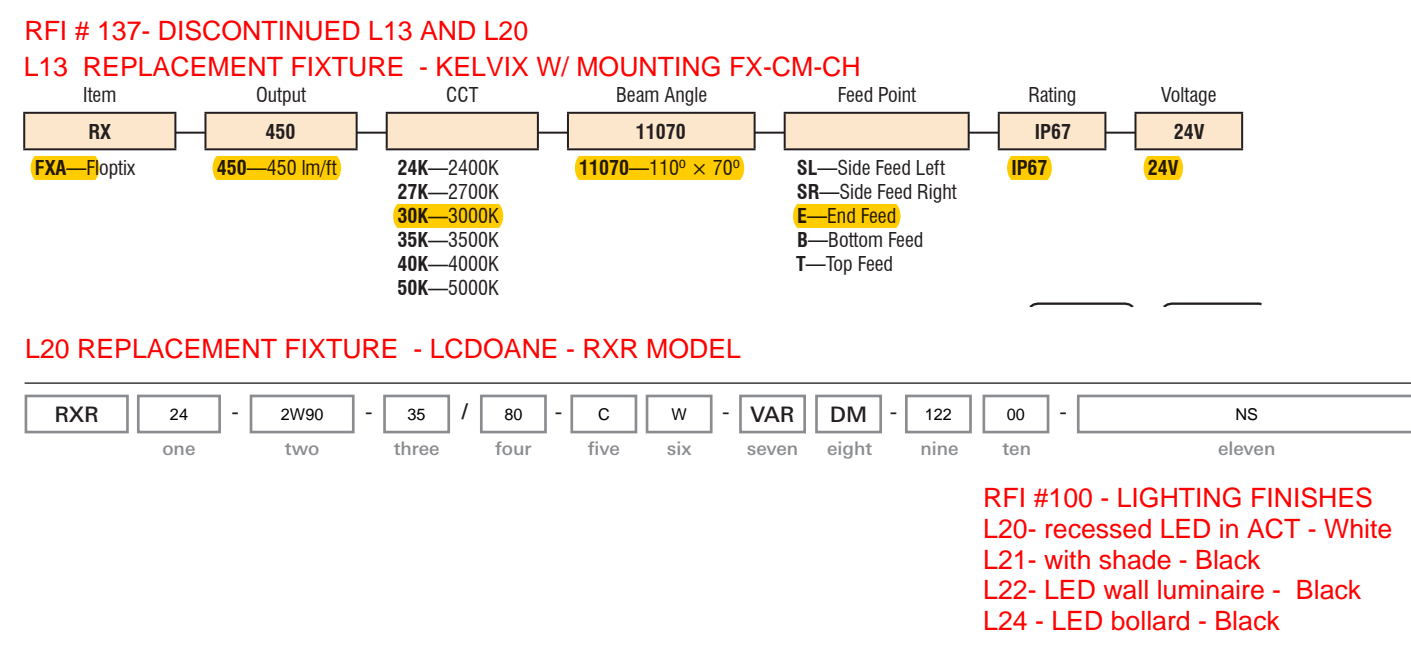
SHEET NUMBER

E0.01.2

LUMINAIRE SCHEDULE

| TYPE | DESCRIPTION | HOUSING | SHIELDING | MOUNTING | FINISH | DRIVER | LAMP(S) | INPUT WATTS | VOLTAGE | MFG/CATALOG # | NOTES |
|------|---|--|--|--------------|-----------------------------|-------------------------------------|--|-------------|---------|---|--|
| L1 | 2x4 RECESSED LED TROFFER | DIE-FORMED 20-GAUGE COLD-ROLLED STEEL | UV-STABILIZED AND IMPACT-RESISTANT FROSTED VIRGIN ACRYLIC LENS | RECESSED | MATTE WHITE | INTEGRAL 0-10V DIMMING DRIVER | LED - 5486 LUMENS, 3500K, 80 CRI | 40.6 W | UNV | FINELITE "HPR LED" SERIES #HPR LED-A-2x4-DCO-H-835-277V-SC-(CEILING) OR APPROVED EQUIVALENT | CONTRACTOR TO COORDINATE CEILING TYPE WITH ARCHITECT PRIOR TO ORDERING |
| L2 | 4 FT LINEAR LED LUMINAIRE | CODE-GAUGE COLD-ROLLED STEEL | ACRYLIC LENS | PENDANT | WHITE | INTEGRAL 0-10V DIMMING DRIVER | LED - 3966 LUMENS, 3500K, 80 CRI | 30 W | UNV | LITHONIA LIGHTING #ZL1D-L48-SMR-3000LM-FST-AR-VOLT-35K-80CRI-WH-ZACVH OR APPROVED EQUIVALENT | BOTTOM OF LUMINAIRE TO BE @ 8'-6" AFF |
| L3A | 8 INCHES DIAMETER PENDANT LED LUMINAIRE WITH REGRESSED DOWNLIGHT AND VERTICAL AMBIENT ILLUMINATION | MATTE ACRYLIC AMBIENT CYLINDER | ACRYLIC DIFFUSER LENS | PENDANT STEM | MATTE WHITE | REMOTE 0-10V DIMMING DRIVER | LED - 1670 LUMENS VERTICAL AND 2910 LUMENS DOWN, 3500K, 80 CRI | 44 W | UNV | SPI LIGHTING "VALLEJO LC" SERIES #SIP12065-L16W-FINISH-120-277V-28W-55 WIDE 3500K-CAS OR APPROVED EQUIVALENT | BOTTOM OF LUMINAIRE TO BE @ 10'-6" AFF PROVIDE WITH SWIVEL "BALL AND JOINT" SOCKET MOUNTING OPTION MAX SWING AT 12 DEGREES FROM VERTICAL |
| L3B | 10 INCHES DIAMETER PENDANT LED LUMINAIRE WITH REGRESSED DOWNLIGHT AND VERTICAL AMBIENT ILLUMINATION | MATTE ACRYLIC AMBIENT CYLINDER | ACRYLIC DIFFUSER LENS | PENDANT STEM | MATTE WHITE | REMOTE 0-10V DIMMING DRIVER | LED - 1570 LUMENS VERTICAL AND 2910 LUMENS DOWN, 3500K, 80 CRI | 44 W | UNV | SPI LIGHTING "VALLEJO LC" SERIES #SIP12064-L16W-FINISH-120-277V-28W-55 WIDE 3500K-CAS OR APPROVED EQUIVALENT | BOTTOM OF LUMINAIRE TO BE @ 10'-0" AFF PROVIDE WITH SWIVEL "BALL AND JOINT" SOCKET MOUNTING OPTION MAX SWING AT 12 DEGREES FROM VERTICAL |
| L3C | 12 INCHES DIAMETER PENDANT LED LUMINAIRE WITH REGRESSED DOWNLIGHT AND VERTICAL AMBIENT ILLUMINATION | MATTE ACRYLIC AMBIENT CYLINDER | ACRYLIC DIFFUSER LENS | PENDANT STEM | MATTE WHITE | REMOTE 0-10V DIMMING DRIVER | LED - 1570 LUMENS VERTICAL AND 2910 LUMENS DOWN, 3500K, 80 CRI | 44 W | UNV | SPI LIGHTING "VALLEJO LC" SERIES #SIP12067-L16W-FINISH-120-277V-28W-55 WIDE 3500K-CAS OR APPROVED EQUIVALENT | BOTTOM OF LUMINAIRE TO BE @ 8'-6" AFF PROVIDE WITH SWIVEL "BALL AND JOINT" SOCKET MOUNTING OPTION MAX SWING AT 12 DEGREES FROM VERTICAL |
| L4 | 6" DIAMETER RECESSED LED DOWNLIGHT WITH MEDIUM DISTRIBUTION | 16-GAUGE GALVANIZED STEEL | INTEGRATED POLYCARBONATE LENS | RECESSED | WHITE | INTEGRAL 0-10V DIMMING DRIVER | LED - 2660 LUMENS, 3500K, 80 CRI | 29.5 W | UNV | GOTHAM ARCHITECTURAL DOWNLIGHTING "EVO" SERIES #EVO-3025-6AR-MDL-SS-MVOLT-GZ10 OR APPROVED EQUIVALENT | |
| L5 | SLEEK CYLINDER LED PENDANT LUMINAIRE | ALUMINUM | | PENDANT | AGED BRASS | ELV DIMMING DRIVER | LED - 435 LUMENS, 3000K | 8 W | 120V | TECH LIGHTING "PIPER PENDANT" #700FJPR-ZZ-LED5830 CANOPY #700LJRF-Z-LED OR APPROVED EQUIVALENT | BOTTOM OF LUMINAIRE TO BE @ 6'-6" AFF |
| L6 | RECESSED LINEAR SLOT WALL WASH LED LUMINAIRE WITH REGRESSED LENS | COLD-ROLLED STEEL WITH EXTRUDED ALUMINUM TRIM | LAY-IN 90% TRANSMISSIVE SATIN ACRYLIC REGRESSED LENS | RECESSED | MATTE WHITE | INTEGRAL 0-10V DIMMING DRIVER | LED - 4272 LUMENS, 3500K, 80 CRI | 64 W | 120V | MARK ARCHITECTURAL LIGHTING #SL2-L0P-8FT-RLP-(CEILING)-80CRI-3500K-800LMF-WW-MIN-120ALIGHT OR APPROVED EQUIVALENT | |
| L7 | 4" SQUARE RECESSED LED DOWNLIGHT | 16-GAUGE GALVANIZED STEEL | INTEGRATED POLYCARBONATE LENS | RECESSED | WHITE | INTEGRAL 0-10V DIMMING DRIVER | LED - 3112 LUMENS, 3500K, 80 CRI | 36.9 W | UNV | GOTHAM ARCHITECTURAL DOWNLIGHTING "EVO" SERIES #EVO-3030-4AR-LSS-MVOLT-EZ1 OR APPROVED EQUIVALENT | |
| L8 | 18 FT LINEAR SUSPENDED DIRECT/INDIRECT LED LUMINAIRE | EXTRUDED ALUMINUM | | PENDANT | WHITE | REMOTE 0-10V DIMMING DRIVER | LED - 475 LUMENS / FT UP AND 550 LUMENS / FT DOWN, 3500K, 80 CRI | 135 W | 120V | FEERLESS "OPM" SERIES #OPM4-LLP-10FT-MSL6-80CRI-35K-900LMF-500LMF-DARK-NIGHT-120-DCT-F124F-(COLOR) OR APPROVED EQUIVALENT | PROVIDE WITH DUAL CIRCUIT FOR INDIVIDUAL DIMMING OF INDIRECT AND DIRECT LIGHT OUTPUT. BOTTOM OF LUMINAIRE TO BE @ 7'-6" AFF |
| L9A | NOT USED. | | | | | | | | | | |
| L9B | NOT USED. | | | | | | | | | | |
| L10 | 2" WIDE BY 12 FT LONG WALL MOUNTED DIRECT/INDIRECT LED LUMINAIRE | 2" EXTRUDED ALUMINUM | EXTRUDED ACRYLIC LENS | WALL | MATTE WHITE | INTEGRAL 0-10V DIMMING DRIVER | LED - 795 LUMENS/FT, 3500K, 80 CRI | 84 W | 120V | 3G LIGHTING "LINA" SERIES #3G-2WL-DL1-L1-1-35K-120-DIM-FL-WH-1C-S-12" OR APPROVED EQUIVALENT | BOTTOM OF LUMINAIRE TO BE @ 7'-6" AFF |
| L10B | 2" WIDE BY 16 FT LONG WALL MOUNTED DIRECT/INDIRECT LED LUMINAIRE WITH 1" DROP LENS | 2" EXTRUDED ALUMINUM | EXTRUDED ACRYLIC LENS | WALL | MATTE WHITE | INTEGRAL 0-10V DIMMING DRIVER | LED - 1136 LUMENS/FT, 3500K, 80 CRI | 176 W | 120V | 3G LIGHTING "LINA" SERIES #3G-2WL-DL2-L1-1-35K-120-DIM-DD1-WH-1C-S-16" OR APPROVED EQUIVALENT | BOTTOM OF LUMINAIRE TO BE @ 13'-6" AFF |
| L11 | 4" SQUARE RECESSED LED DOWNLIGHT | 16-GAUGE GALVANIZED STEEL | INTEGRATED POLYCARBONATE LENS | RECESSED | WHITE | INTEGRAL 0-10V DIMMING DRIVER | LED - 2576 LUMENS, 3000K, 80 CRI | 28.9 W | UNV | GOTHAM ARCHITECTURAL DOWNLIGHTING "EVO" SERIES #EVO-3030-4AR-LSS-MVOLT-EZ1 OR APPROVED EQUIVALENT | |
| L12 | EXTERIOR LINEAR LED TAPE LIGHT | | | SURFACE | | REMOTE POWER SUPPLY - 0-10V DIMMING | LED - 330 LUMENS / FT, 3000K, 80 CRI | 3.2 W / FT | UNV | KELVIX "PH" SERIES LED TAPE #PHK-WR-34V EXTRUSION #K409 POWER SUPPLY #HLV56 OR APPROVED EQUIVALENT | REFER TO PLANS FOR LENGTH |
| L13 | EXTERIOR RECESSED UPLIGHTING LED LUMINAIRE WITH ASYMMETRIC DISTRIBUTION | EXTRUDED ALUMINUM | CLEAR LENS | RECESSED | ALUMINUM | REMOTE POWER SUPPLY | LED - 2856 LUMENS, 3500K, 80 CRI | 60 W | UNV | JUNO FLEXCONNECT SERIES LUMINAIRE #JUNO-HASV-7FT-38K-80CRI CHANNEL #JUNO-PR-7FT-CL-SA DRIVER #JLDPS-60W-IP67 OR APPROVED EQUIVALENT | CONTRACTOR TO ENSURE ASYMMETRIC LIGHT DISTRIBUTION ILLUMINATE BACK WALL PROVIDE ALL NECESSARY APPLICATIONS FOR A COMPLETE AND OPERATIONAL SYSTEM |
| L14 | 4" SQUARE RECESSED LED WALL WASH DOWNLIGHT | 16-GAUGE GALVANIZED STEEL | INTEGRATED POLYCARBONATE LENS | RECESSED | WHITE | INTEGRAL 0-10V DIMMING DRIVER | LED - 1500 LUMENS, 3500K, 85 CRI | 18 W | UNV | GOTHAM ARCHITECTURAL DOWNLIGHTING "EVO" SERIES #EVO-SQLW-3515-4AR-LSS-MVOLT-EZ10-NPS80EZ OR APPROVED EQUIVALENT | |
| L15 | 6" DIAMETER RECESSED LED DOWNLIGHT WITH WIDE DISTRIBUTION | 16-GAUGE GALVANIZED STEEL | INTEGRATED POLYCARBONATE LENS | RECESSED | WHITE | INTEGRAL 0-10V DIMMING DRIVER | LED - 2660 LUMENS, 3500K, 80 CRI | 29.5 W | UNV | GOTHAM ARCHITECTURAL DOWNLIGHTING "EVO" SERIES #EVO-3525-6AR-WD-LSS-MVOLT-GZ10 OR APPROVED EQUIVALENT | |
| L16 | SLEEK CYLINDER LED PENDANT LUMINAIRE | ALUMINUM | | PENDANT | AGED BRASS | ELV DIMMING DRIVER | LED - 435 LUMENS, 3000K | 8 W | 277V | TECH LIGHTING "PIPER PENDANT" #700FJPR-RL-LED5830 CANOPY #700LJRF-Z-LED277 OR APPROVED EQUIVALENT | BOTTOM OF LUMINAIRE TO BE @ 7'-6" AFF |
| L17A | 24" DIAMETER DECORATIVE LED LUMINAIRE | ALUMINUM | WHITE MATTE ACRYLIC | SURFACE | WHITE | REMOTE POWER SUPPLY - 0-10V DIMMING | LED - 4280 LUMENS, 3500K, 80 CRI | 35 W | UNV | OCL "LOOP" SERIES #L01-C1A-24-MW-AWP-LED238K-LUNV-DM1 OR APPROVED EQUIVALENT | |
| L17B | 14" DIAMETER DECORATIVE LED LUMINAIRE | ALUMINUM | WHITE MATTE ACRYLIC | SURFACE | WHITE | REMOTE POWER SUPPLY - 0-10V DIMMING | LED - 1430 LUMENS, 3500K, 80 CRI | 15 W | UNV | OCL "LOOP" SERIES #L01-C1A-14-MW-AWP-LED1238K-LUNV-DM1 OR APPROVED EQUIVALENT | |
| L18A | 24" DIAMETER DECORATIVE LED LUMINAIRE | ALUMINUM | WHITE MATTE ACRYLIC | PENDANT | WHITE | REMOTE POWER SUPPLY - 0-10V DIMMING | LED - 4280 LUMENS, 3500K, 80 CRI | 35 W | UNV | OCL "LOOP" SERIES #L01-P1EC-24-MW-AWP-LED238K-LUNV-(QAH)-DM1 OR APPROVED EQUIVALENT | BOTTOM OF LUMINAIRE TO BE @ 8'-0" AFF |
| L18B | 48" DIAMETER DECORATIVE LED PENDANT | ALUMINUM | WHITE MATTE ACRYLIC | PENDANT | WHITE | REMOTE POWER SUPPLY - 0-10V DIMMING | LED - 12860 LUMENS, 3500K, 80 CRI | 110 W | UNV | OCL "LOOP" SERIES #L01-P1EC-48-MW-AWP-LED238K-LUNV-(QAH)-DM1 OR APPROVED EQUIVALENT | BOTTOM OF LUMINAIRE TO BE @ 14'-0" AFF |
| L19 | 6" DIAMETER RECESSED LED DOWNLIGHT, NSF RATED | 16-GAUGE GALVANIZED STEEL | | RECESSED | WHITE | INTEGRAL 0-10V DIMMING DRIVER | LED - 3369 LUMENS, 3500K, 80 CRI | 43.9 W | UNV | GOTHAM ARCHITECTURAL DOWNLIGHTING "EVO" SERIES #EVO9F5-3525-8FT-3MO-MVOLT-EZ10 OR APPROVED EQUIVALENT | |
| L20 | 2x4 RECESSED LED TROFFER, NSF RATED | 18 GAUGE COLD ROLLED STEEL | OPTIC PLUS ACRYLIC LENS | RECESSED | | INTEGRAL 0-10V DIMMING DRIVER | LED - 8964 LUMENS, 3500K, 80 CRI | 71.5 W | UNV | L.C. DOANE LIGHTING #RXB24-2W90-3500L-CBA-AR-48H-2205-NS OR APPROVED EQUIVALENT | |
| L21 | EXTERIOR WALL LED LUMINAIRE | HIGH PRESSURE DIE CAST MARINE GRADE ALUMINUM | OPAL BOROSILICATE IMPACT RESISTANT GLASS | WALL | TO BE SELECTED BY ARCHITECT | INTEGRAL 0-10V DIMMING DRIVER | LED - 1376 LUMENS, 3000K, 80 CRI | 20 W | UNV | LIGMAN LIGHTING "DUOMO" SERIES #UDU-30123-20W-2W30-(COLOR)-120277V-DIM OR APPROVED EQUIVALENT | BOTTOM OF LUMINAIRE TO BE @ 11'-0" AFF |
| L22 | EXTERIOR WALL LED LUMINAIRE WITH INTEGRAL PHOTOSENSOR | DIE-CAST ALUMINUM | UV-STABILIZED POLYCARBONATE | WALL | | INTEGRAL LED DRIVER | LED - 3087 LUMENS, 4000K, 70 CRI | 28 W | UNV | LITHONIA LIGHTING "TWP" SERIES #TWP-LED-0-40K-TW-MVOLT-PE-SF-DOBXD OR APPROVED EQUIVALENT | CONTRACTOR TO SET FAO SETTING TO STEP 4 TO KEEP WATTAGE UNDER 30W |
| L23 | NOT USED. | | | | | | | | | | |
| L24 | EXTERIOR LED BOLLARD WITH BUG RATING B1-U0-G1. | | | BOLLARD | | INTEGRAL 0-10V DIMMING DRIVER | LED - 1713 LUMENS, 3000K | 33 W | 120V | BEGA #84062 | PROVIDED FOR ELECTRICAL REFERENCES ONLY, SEE LANDSCAPE DRAWINGS FOR EXACT SELECTION AND REQUIREMENTS |
| L25 | LOW PROFILE 2" WIDE LED STRIP LIGHT | CODE GAUGE COLD-ROLLED STEEL | | SURFACE | WHITE | INTEGRAL 0-10V DIMMING DRIVER | LED - 3000 LUMENS, 3500K, 80 CRI | 30 W | UNV | LITHONIA "ZL1D" SERIES #ZL1D-L48-SMR-3000LM-FST-AR-VOLT-35K-80CRI OR APPROVED EQUIVALENT | BOTTOM OF LUMINAIRE TO BE @ 7'-6" AFF |
| X1 | LED EXIT SIGN WITH GREEN LETTERS, EMERGENCY BATTERY BACKUP, AND SELF-DIAGNOSTICS | ENGINEERING-GRADE THERMOPLASTIC, IMPACT RESISTANT SCRATCH-RESISTANT, AND CORROSION-PROOF | | UNV | WHITE | INTEGRAL LED DRIVER | LED - GREEN LETTERS | 1 W | UNV | LITHONIA "LOM" SERIES #LOM-S-W-3-G-120277V-ELN-SD OR APPROVED EQUIVALENT | |

- NOTES:
- THIS LUMINAIRE SCHEDULE IS NOT COMPLETE WITHOUT A COPY OF THE PROJECT MANUAL CONTAINING THE ELECTRICAL SPECIFICATIONS.
 - DIMMING CONTROL PROTOCOL (0-10VDC, LINE VOLTAGE, DALI, ETC) COMPATIBLE WITH LIGHTING CONTROL SYSTEM AS SPECIFIED AND SHOWN ON DRAWINGS.
 - PROVIDE +/- 12 INCH ADJUSTABILITY IN AIRCRAFT CABLE LENGTH WHERE USED.
 - COORDINATE ALL CEILING TYPES WITH LUMINAIRE LOCATIONS PRIOR TO ORDERING LUMINAIRES. COORDINATE INSTALLATION WITH REFLECTED CEILING PLAN.
 - SPECIFIED MANUFACTURERS ARE APPROVED TO SUBMIT BID. INCLUSION DOES NOT RELIEVE MANUFACTURER FROM SUPPLYING PRODUCT AS DESCRIBED.
 - PROVIDE SUBMITTALS THAT INCLUDE THE LUMINAIRE AND LAMP INFORMATION OF EACH LUMINAIRE, WITH APPLICABLE OPTIONS CLEARLY CHECKED OR HIGHLIGHTED. SUBMITTALS NOT INCLUDING THIS INFORMATION WILL BE RETURNED AS REJECTED BY THE ENGINEER OF RECORD.
 - REMOTE DRIVERS: UL LISTED FOR THEIR APPLICATION. DRIVERS MARKED AS UL RECOGNIZED COMPONENT BUT NOT UL LISTED ARE SUBJECT TO REMOVAL AND REPLACEMENT AT NO COST TO OWNER.
 - PROVIDE COMMISSIONING OF THE LIGHTING AND LIGHTING CONTROLS IN ACCORDANCE WITH CALIFORNIA TITLE 24 LIGHTING COMMISSIONING REQUIREMENTS.



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PROJECT 2016-0538
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THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE DESIGN PROFESSIONAL HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERROR OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

PROJECT TITLE

CONTRA COSTA
CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION & RENOVATION

1690 Watermill Rd.
San Ramon, CA 94582

RECORD SET:
THESE DRAWINGS HAVE BEEN PREPARED FROM ADDENDUMS, CCD'S, ASIS AND SELECT RFI'S OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM. ONLY A SELECT FEW AS-BUILTS WERE SUBMITTED.

ISSUE TITLE

INCREMENT 2

ISSUE DATE **08/22/2023**

NOLL & TAM JOB NUMBER **21630**

REVISIONS

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
| | | |

SHEET TITLE
LUMINAIRE SCHEDULE - ELECTRICAL

SHEET NUMBER

E0.02.2

STATE OF CALIFORNIA
Indoor Lighting
 NRCC-LTI-E (Created 3/13) CALIFORNIA ENERGY COMMISSION NRCC-LTI-E

CERTIFICATE OF COMPLIANCE
 This document is used to demonstrate compliance with requirements in §110.9, §130.0, §130.1, §140.6, and §141.0(b)(2) for indoor lighting scopes using the prescriptive path.
 Project Name: DVC San Ramon Campus Expansion & Renovation Report Page: Page 1 of 7
 Project Address: 1690 Watermill Rd. San Ramon, CA 94582 Date Prepared: 5/17/2019

A. GENERAL INFORMATION

| | | |
|---|--|-------|
| 01 Project Location (city) | 04 Total Conditioned Floor Area (ft ²) | 5,823 |
| 02 Climate Zone | 05 Total Unconditioned Floor Area (ft ²) | 0 |
| 03 Occupancy Types Within Project (select all that apply): <input type="checkbox"/> Office <input type="checkbox"/> Retail <input type="checkbox"/> Warehouse <input type="checkbox"/> Parking Garage <input type="checkbox"/> High-Rise Residential <input type="checkbox"/> Relocatable <input checked="" type="checkbox"/> Other (write in): <input checked="" type="checkbox"/> Support Areas | 06 # of Stories (Habitable Above Grade) | 1 |

B. PROJECT SCOPE
 Table Instructions: Include any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)(2) for alterations. WARNING: Changing the Calculation Method in this table will result in the deletion of data previously input. If you need to change the calculation method, please open a new form or use "Save As".

| | | |
|--|---|--|
| Scope of Work | Conditioned Spaces | Unconditioned Spaces |
| 01 My Project Consists of (check all that apply): <input checked="" type="checkbox"/> New Lighting System <input type="checkbox"/> Altered Lighting System | 02 Calculation Method Area Category 5,823 | 03 Area (ft ²) Area Category 0 |
| Total Area of Work (ft ²) | | 5,823 |
| | | 0 |

C. COMPLIANCE RESULTS
 Table Instructions: 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). | Allowed Lighting Power per §140.6(b) (Watts) | | | | | Actual Lighting Power per §140.6(a) (Watts) | | | | | Compliance Results |
|--|--|---|---|-----------------------|----|---|---------------------------------|--------------------------------------|---|---------------------------|--------------------|
| | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | |
| Complete Building Category §140.6(c)(1) (See Table I) | Area Category §140.6(c)(2) (See Table J) | Area Category Footnotes §140.6(c)(2)(+) (See Table K) | Tailored §140.6(c)(3) (+) (See Table L) | Total Allowed (Watts) | ≥ | Total (Watts) | Adjustments | | Total Actual (Watts) *Includes Adjustments | 05 Must be ≥ 09 §140.6 | |
| | | | | | | | Portable Lighting §140.6(a) (-) | PAF Control Credits §140.6(a)(2) (-) | | | |
| Conditioned: | 6,051.15 | | | | ≥ | 4,408.5 | | | | COMPLIES | |
| Unconditioned: | | | | | ≥ | | | | | COMPLIES | |
| Controls Compliance (See Table H for Details) | | | | | | | | | | COMPLIES | |
| Rated Power Reduction Compliance (See Table S for Details) | | | | | | | | | | Not Applicable | |

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards March 2018

STATE OF CALIFORNIA
Indoor Lighting
 NRCC-LTI-E (Created 3/13) CALIFORNIA ENERGY COMMISSION NRCC-LTI-E

CERTIFICATE OF COMPLIANCE
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 Project Name: DVC San Ramon Campus Expansion & Renovation Report Page: Page 2 of 7
 Project Address: 1690 Watermill Rd. San Ramon, CA 94582 Date Prepared: 5/17/2019

D. EXCEPTIONAL CONDITIONS
 This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.
 No exceptional conditions apply to this project.

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

F. INDOOR LIGHTING FIXTURE SCHEDULE
 Table Instructions: Include all permanent designed lighting and all portable lighting in offices.

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | |
|--|------------------------------------|--|----------------------------------|---------------------------|-------------------------|-------------------------|--------------|---------------------------|--|
| Name or Item Tag | Complete Luminaire Description | Specialized Luminaire Types Track Portable | Watts per luminaire ¹ | How Wattage is determined | Total number luminaires | Exempt per §140.6(a)(3) | Design Watts | Field Inspector Pass Fail | |
| L1 | L1 - Recessed 2x4 LED Troffer | | 34 | NAB Default | 10 | | 340 | | |
| L10 | L10 - Wall Mounted Linear D/ LED | | 84 | NAB Default | 1 | | 84 | | |
| L108 | L108 - Wall mounted Linear D/ LED | | 112 | NAB Default | 2 | | 224 | | |
| L17A | L17A - Surface Round LED | | 30 | NAB Default | 4 | | 120 | | |
| L17B | L17B - Surface Round LED | | 15 | NAB Default | 6 | | 90 | | |
| L2 | L2 - 4' Linear LED Luminaire | | 30 | NAB Default | 7 | | 210 | | |
| L3A | L3A - Pendant LED | | 44 | NAB Default | 20 | | 880 | | |
| L3B | L3B - Pendant LED | | 44 | NAB Default | 22 | | 968 | | |
| L3C | L3C - Pendant LED | | 44 | NAB Default | 24 | | 1,056 | | |
| L4 | L4 - Recessed Downlight LED | | 29.5 | NAB Default | 3 | | 88.5 | | |
| L5 | L5 - Pendant LED | | 8 | NAB Default | 6 | | 48 | | |
| L6 | L6 - Recessed Linear Wall Wash LED | | 64 | NAB Default | 2 | | 128 | | |
| L7 | L7 - Recessed Downlight LED | | 37 | NAB Default | 1 | | 37 | | |
| L8 | L8 - 10' Linear Suspended D/ LED | | 135 | NAB Default | 1 | | 135 | | |
| Total Designed Watts CONDITIONED SPACES: | | | | | 4,408.5 | | | | |

NOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c). Wattage used must be the maximum rated for the luminaire, not the lamp.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards March 2018

STATE OF CALIFORNIA
Indoor Lighting
 NRCC-LTI-E (Created 3/13) CALIFORNIA ENERGY COMMISSION NRCC-LTI-E

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 Project Name: DVC San Ramon Campus Expansion & Renovation Report Page: Page 3 of 7
 Project Address: 1690 Watermill Rd. San Ramon, CA 94582 Date Prepared: 5/17/2019

G. TRACK LIGHTING
 This Section Does Not Apply

H. INDOOR LIGHTING CONTROLS (Not Including PAFs)
 Table Instructions: Please include lighting controls for conditioned and unconditioned spaces in this table. When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.

| Area Level Controls | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |
|---|-------------------------------|---------------|--------|------------|----------|----------|----|----|----|
| | | | | | | | | | |
| Library | Library Building | Manual ON/OFF | Dimmer | Occ Sensor | Included | Included | | | |
| Study Room | Convention/Conference/Meeting | Manual ON/OFF | Dimmer | Occ Sensor | N/A | Included | | | |
| Meeting Room | Convention/Conference/Meeting | Manual ON/OFF | Dimmer | Occ Sensor | Included | Included | | | |
| Storage/Mech/Elec/ Tech | Corridor/Restroom/Support | Manual ON/OFF | Dimmer | Occ Sensor | Included | Included | | | |
| *NOTES: Controls with a * require a note in the space below explaining how compliance is achieved. EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)(2) | | | | | | | | | |

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS
 Table Instructions: Complete the table for each area complying using the Complete Building or Area Category Methods per §140.6(b). Indicate if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used.

| 01 | 02 | 03 | 04 | 05 | 06 |
|---------------------|--|--------------------------------------|-------------------------|-------------------------|--|
| Area Description | Complete Building or Area Category Primary Function Area | Allowed Density (W/ft ²) | Area (ft ²) | Allowed Wattage (Watts) | Additional Allowances / Adjustments Footnotes PAF Portable Ltg |
| Library/Study Areas | Library - Reading Area | 1.1 | 4,834 | 5,317.4 | |
| Utility Rooms | Elec, Mech, Telephone | 0.55 | 313 | 172.15 | |

Table Continued

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards March 2018

STATE OF CALIFORNIA
Indoor Lighting
 NRCC-LTI-E (Created 3/13) CALIFORNIA ENERGY COMMISSION NRCC-LTI-E

CERTIFICATE OF COMPLIANCE
 This document is used to demonstrate compliance with requirements in §110.9, §130.0, §130.2, §140.7, and §141.0(b)(2) for outdoor lighting scopes using the prescriptive path.
 Project Name: DVC San Ramon Campus Expansion & Renovation Report Page: Page 4 of 7
 Project Address: 1690 Watermill Rd. San Ramon, CA 94582 Date Prepared: 5/17/2019

| 01 | 02 | 03 | 04 | 05 | 06 |
|------------------|--|--------------------------------------|-------------------------|-------------------------|--|
| Area Description | Complete Building or Area Category Primary Function Area | Allowed Density (W/ft ²) | Area (ft ²) | Allowed Wattage (Watts) | Additional Allowances / Adjustments Footnotes PAF Portable Ltg |
| Storage | Corridor, Restrm, Stair, Support | 0.6 | 416 | 249.6 | |
| Meeting Room | Convention, Conf., Meeting | 1.2 | 260 | 312 | |
| TOTAL: | | 5,823 | 6,051.15 | | See Tables J, K, R for detail |

J. POWER ADJUSTMENT: PORTABLE LIGHTING IN OFFICES
 This Section Does Not Apply

K. ADDITIONAL LIGHTING ALLOWANCE: AREA CATEGORY METHOD FOOTNOTES
 This Section Does Not Apply

L. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE
 This Section Does Not Apply

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED SPECIAL FUNCTION AREAS
 This Section Does Not Apply

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY
 This Section Does Not Apply

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING
 This Section Does Not Apply

P. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS
 This Section Does Not Apply

Q. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE
 This Section Does Not Apply

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards March 2018

STATE OF CALIFORNIA
Indoor Lighting
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CERTIFICATE OF COMPLIANCE
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 Project Name: DVC San Ramon Campus Expansion & Renovation Report Page: Page 5 of 7
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R. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (PAF)
 This Section Does Not Apply

S. RATED POWER REDUCTION COMPLIANCE BY SPACE
 This Section Does Not Apply

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
 Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/2015Publications/CEC-400-2015-033/appendices/forms/NRCC

| YES | NO | Form/Title | Field Inspector Pass Fail |
|----------------------------------|----------------------------------|---|---|
| <input checked="" type="radio"/> | <input type="radio"/> | NRCC-LTI-01-E - Must be submitted for all buildings | <input type="checkbox"/> <input type="checkbox"/> |
| <input checked="" type="radio"/> | <input type="radio"/> | NRCC-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance. | <input type="checkbox"/> <input type="checkbox"/> |
| <input type="radio"/> | <input checked="" type="radio"/> | NRCC-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance. | <input type="checkbox"/> <input type="checkbox"/> |
| <input type="radio"/> | <input checked="" type="radio"/> | NRCC-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance. | <input type="checkbox"/> <input type="checkbox"/> |
| <input type="radio"/> | <input checked="" type="radio"/> | NRCC-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance. | <input type="checkbox"/> <input type="checkbox"/> |
| <input type="radio"/> | <input checked="" type="radio"/> | NRCC-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance. | <input type="checkbox"/> <input type="checkbox"/> |

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards March 2018

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 Project Address: 1690 Watermill Rd. San Ramon, CA 94582 Date Prepared: 5/17/2019

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
 Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/atttcp/providers.html

| YES | NO | Form/Title | Field Inspector Pass Fail |
|----------------------------------|----------------------------------|---|---|
| <input checked="" type="radio"/> | <input type="radio"/> | NRCC-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls. | <input type="checkbox"/> <input type="checkbox"/> |
| <input checked="" type="radio"/> | <input type="radio"/> | NRCC-LTI-03-A - Must be submitted for automatic daylight controls. | <input type="checkbox"/> <input type="checkbox"/> |
| <input type="radio"/> | <input checked="" type="radio"/> | NRCC-LTI-04-A - Must be submitted for demand responsive lighting controls. | <input type="checkbox"/> <input type="checkbox"/> |
| <input type="radio"/> | <input checked="" type="radio"/> | NRCC-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF). | <input type="checkbox"/> <input type="checkbox"/> |

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards March 2018

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 Project Name: DVC San Ramon Campus Expansion & Renovation Report Page: Page 7 of 7
 Project Address: 1690 Watermill Rd. San Ramon, CA 94582 Date Prepared: 5/17/2019

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
 Documentation Author Name: Jason Lau
 Documentation Author Signature: [Signature]
 Company: Interface Engineering
 Signature Date: 5/17/2019
 Address: 135 Main Street
 City/State/Zip: San Francisco, CA 94105
 CEA/HERS Certification Identification (if applicable):
 Phone: 4154897240

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: Jason Lau
 Responsible Designer Signature: [Signature]
 Company: Interface Engineering
 Date Signed: 5/17/2019
 Address: 135 Main Street
 License: E16806
 City/State/Zip: San Francisco, CA 94105
 Phone: 4154897240

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards March 2018

STATE OF CALIFORNIA
Outdoor Lighting
 NRCC-LTO-E (Created 3/13) CALIFORNIA ENERGY COMMISSION NRCC-LTO-E

CERTIFICATE OF COMPLIANCE
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 Project Name: DVC San Ramon Campus Expansion & Renovation Report Page: Page 1 of 7
 Project Address: 1690 Watermill Rd. San Ramon, CA 94582 Date Prepared: 5/17/2019

A. GENERAL INFORMATION

| | | |
|--|--|--------|
| 01 Project Location (city) | 04 Total Illuminated Hardscape Area (ft ²) | 10,261 |
| 02 Climate Zone | 12 | |
| 03 Outdoor Lighting Zone per Title 24, Part 1 §10-114 or as designated by Authority Having Jurisdiction (AHJ): <input type="checkbox"/> L2-0: Very Low - Undeveloped Parkland <input type="checkbox"/> L2-2: Moderate - Rural Areas <input type="checkbox"/> L2-4: High - Must be reviewed by CA Energy Commission for Approval <input checked="" type="checkbox"/> L2-1: Low - Developed Parkland <input checked="" type="checkbox"/> L2-3: Moderately High - Urban Areas | | |

B. PROJECT SCOPE
 Table Instructions: Include any outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or §141.0(b)(2) for alterations.

My project consists of:
 New Lighting System Must Comply with Allowances from §140.7.
 Altered Lighting System Is your alteration increasing the connected lighting load (Watts)? Yes No
 * FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100

C. COMPLIANCE RESULTS
 Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance.

| Calculation of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)(2) | | | | | | Compliance Results | | |
|--|------------------------------|--|--|--|--|-----------------------|----------------------|-----------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
| General Hardscape Allowance §140.7(d)(1) (See Table I) | Per Application §140.7(d)(2) | Sales Frontage §140.7(d)(2) (See Table K) | Ornamental §140.7(d)(2) (See Table L) | Per Specific Area OR §140.7(d)(2) (See Table M) | Existing Power §141.0(b)(2) (See Table N) | Total Allowed (Watts) | Total Actual (Watts) | 07 Must be ≥ 08 |
| 1,149.54 | + 70 | + [See Table K] | + [See Table L] | + 28 | OR | = 1,247.54 | ≥ 786 | COMPLIES |
| Cutoff Compliance (See Table G for Details) | | | | | | Not Applicable | | |
| Controls Compliance (See Table H for Details) | | | | | | COMPLIES | | |

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards September 2017

STATE OF CALIFORNIA
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 NRCC-LTO-E (Created 3/13) CALIFORNIA ENERGY COMMISSION NRCC-LTO-E

CERTIFICATE OF COMPLIANCE
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 Project Name: DVC San Ramon Campus Expansion & Renovation Report Page: Page 2 of 7
 Project Address: 1690 Watermill Rd. San Ramon, CA 94582 Date Prepared: 5/17/2019

D. EXCEPTIONAL CONDITIONS
 This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.
 No exceptional conditions apply to this project.

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

F. OUTDOOR LIGHTING FIXTURE SCHEDULE
 This Section Does Not Apply

F. OUTDOOR LIGHTING FIXTURE SCHEDULE
 Table Instructions: For new or altered lighting systems demonstrating compliance with §140.7 (ie Table I has expanded for input), include all luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)(2), (ie Table N has expanded for input), include only new luminaires being installed and replacement luminaires being installed as part of the project scope (ie, do not include existing luminaires remaining or existing luminaires being moved).

| Designated Wattage: | | | | | | | | | |
|-----------------------|-------------------------------------|----------------------------------|---------------------------|-------------------------|-------------------------------|------------------------|--------------|---|---------------------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 |
| Name or Item Tag | Complete Luminaire Description | Watts per luminaire ¹ | How Wattage is determined | Total number luminaires | Luminaire Status ² | Excluded per §140.7(a) | Design Watts | Cutoff Req. > 150W §130.2(b) ³ | Field Inspector Pass Fail |
| L11 | L11 - Recessed Downlight LED | 29 | NAB Default | 4 | New | | 116 | | |
| L12 | L12 - Exterior LED Tape Light (W/H) | 3.2 | NAB Default | 15 | New | | 48 | | |
| L22 | L22 - Exterior Wall Mounted LED | 28 | NAB Default | 1 | New | | 28 | | |
| L24 | L24 - Exterior LED Bollard | 33 | NAB Default | 18 | New | | 594 | | |
| Total Designed Watts: | | | | | | 786 | | | |

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
 EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b).

G. CUTOFF REQUIREMENTS (BUG)
 This Section Does Not Apply

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards September 2017

APPROVALS

NOLL & TAM ARCHITECTS

729 Heinz Avenue
 Berkeley, CA 94710
 TEL 415.489.7240
 FAX 415.489.7289

ARCHITECTS SEAL

PROJECT 2016-0058
 CONTACT

INTERFACE ENGINEERING

135 Main Street
 Suite 400
 San Francisco, CA 94105
 TEL 415.489.7240
 FAX 415.489.7289
 www.interfaceengineering.com

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE DESIGN PROFESSIONAL HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERROR OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

PROJECT TITLE

CONTRA COSTA CCD D-4002 DVC SAN RAMON CAMPUS EXPANSION & RENOVATION

1690 Watermill Rd.
 San Ramon, CA 94582

RECORD SET:

THESE DRAWINGS HAVE BEEN PREPARED FROM ADDENDUMS, CCD'S, ASIS AND SELECT RFI'S OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM. ONLY A SELECT FEW AS-BUILTS WERE SUBMITTED.

ISSUE TITLE

INCREMENT 2

ISSUE DATE **08/22/2023**

NOLL & TAM JOB NUMBER **21630**

REVISIONS
 NO. | DATE | DESCRIPTION

SHEET TITLE
TITLE 24 - LLRC INCREMENT 2

SHEET NUMBER

E0.03.2

STATE OF CALIFORNIA
Outdoor Lighting
 NRCC-LTO-E (Created 9/17)
 CERTIFICATE OF COMPLIANCE
 Project Name: DVC San Ramon Campus Expansion & Renovation Report Page: Page 3 of 7
 Project Address: 1690 Watermill Rd. San Ramon, CA 94582 Date Prepared: 5/17/2019

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards September 2017

H. OUTDOOR LIGHTING CONTROLS
 This Section Does Not Apply

H. OUTDOOR LIGHTING CONTROLS
 Table Instructions: Complete this table demonstrating compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application. When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank. For each requirement in columns 02 through 07, do not leave the field blank, instead select NA or Exempt* from the dropdown list to indicate not applicable or an exemption.

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
|------------------|--|------------------------|-----------------------------|-----------------------------|------------------------------|--|-----------------|
| Area Description | Motion Sensor: Incandescent<100W \$130.2(c)(1) | Shut-Off \$130.2(c)(1) | Auto-Schedule \$130.2(c)(2) | Motion Sensor \$130.2(c)(3) | Sales Frontage \$130.2(c)(4) | Facade, Ornament, Outdoor Dining \$130.2(c)(5) | Field Inspector |
| LLRC Hardcape | NA: No Incand>100W | Astronomical Time | Yes | NA: Poles75W | NA: No Sales Front Lit | No Applicable Lt | Pass Fail |

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved. EX: Not permitted by health & safety to be turned off; EXCEPTION 1 to §130.2(g).

I. LIGHTING POWER ALLOWANCE (per §140.7)
 Table Instructions: Please complete this table for areas using the allowance calculations per §140.7. General Hardcape Allowance is per Table 140.7.A while "Use it or lose it" Allowances are per Table 140.7.B. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
|------------------------|------------------------------|--------------------------------|-----------------------|------------------------|--------------------------|---------------------------------|--------|------|
| Area Description | Area Wattage Allowance (AWA) | Linear Wattage Allowance (LWA) | Perimeter Length (ft) | Allowed Density (W/ft) | Linear Allowance (Watts) | Total General AWA + LWA (Watts) | Pass | Fail |
| LLRC Exterior Hardcape | 10,261 | 0.04 | 410.44 | 626 | 0.35 | 219.1 | 629.54 | |

Table Continued

STATE OF CALIFORNIA
Outdoor Lighting
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 CERTIFICATE OF COMPLIANCE
 Project Name: DVC San Ramon Campus Expansion & Renovation Report Page: Page 4 of 7
 Project Address: 1690 Watermill Rd. San Ramon, CA 94582 Date Prepared: 5/17/2019

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards September 2017

H. ENERGY VERIFIED LABELED SIGNS AND CONTROLS
 This Section Does Not Apply

I. LIGHTING ALLOWANCE: PER APPLICATION
 Table Instructions: Please complete this table for areas using the wattage allowance per application from Table 140.7.B.

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 |
|------------------------------------|--|----------------|------------------------------|-------------------------|----------------------------|---------------------|-----------------|--------------|------------------------------|
| Area Description | Application per Table 140.7.B ¹ | # of Locations | CALCULATED ALLOWANCE (Watts) | Extra Allowance (Watts) | Luminaire Name or Item Tag | Watts per Luminaire | # of Luminaires | Design Watts | Additional Allowance (Watts) |
| LLRC Entrance | Bldg Entrance/Exit | 2 | 35 | 70 | L12 | 3.2 | 15 | 48 | |
| LLRC Entrance | Bldg Entrance/Exit | 2 | 35 | 70 | L11 | 29 | 4 | 116 | |
| Total Design Watts for this Area: | | | | | | | | | 164 |
| Total Allowance (Watts) All Areas: | | | | | | | | | 70 |

¹ FOOTNOTES: Primary entrance applications are only available for senior care facilities, police stations, hospitals, fire stations, and emergency vehicle facilities.
² The Allowance per location for ATMs is 250W for the first ATM and 70W for each additional per Table 140.7.B.

K. LIGHTING ALLOWANCE: SALES FRONTAGE
 This Section Does Not Apply

L. LIGHTING ALLOWANCE: ORNAMENTAL
 This Section Does Not Apply

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA
 This Section Does Not Apply

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA
 Table Instructions: Please complete this table for areas using the wattage allowance per specific area type from Table 140.7.B. More than one specific area allowance may be taken in a single project, if applicable. However, multiple specific area allowances may not be taken for the exact same area on the site.

Table Continued

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards September 2017

STATE OF CALIFORNIA
Outdoor Lighting
 NRCC-LTO-E (Created 9/17)
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 Project Name: DVC San Ramon Campus Expansion & Renovation Report Page: Page 5 of 7
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CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards September 2017

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
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| YES | NO | Form/Title | Field Inspector | |
|----------------------------------|-----------------------|--|--------------------------|--------------------------|
| | | | Pass | Fail |
| <input checked="" type="radio"/> | <input type="radio"/> | NRCL-LTO-01-E - Must be submitted for all buildings. | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="radio"/> | <input type="radio"/> | NRCL-LTO-02-E - Must be submitted for a lighting control system; or for an Energy Management Control System (EMCS), to be recognized for compliance. | <input type="checkbox"/> | <input type="checkbox"/> |

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards September 2017

STATE OF CALIFORNIA
Outdoor Lighting
 NRCC-LTO-E (Created 9/17)
 CERTIFICATE OF COMPLIANCE
 Project Name: DVC San Ramon Campus Expansion & Renovation Report Page: Page 6 of 7
 Project Address: 1690 Watermill Rd. San Ramon, CA 94582 Date Prepared: 5/17/2019

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards September 2017

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
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| YES | NO | Form/Title | Field Inspector | |
|----------------------------------|-----------------------|--|--------------------------|--------------------------|
| | | | Pass | Fail |
| <input checked="" type="radio"/> | <input type="radio"/> | NRCL-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls area added to ≤ 20 luminaires. | <input type="checkbox"/> | <input type="checkbox"/> |

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards September 2017

STATE OF CALIFORNIA
Outdoor Lighting
 NRCC-LTO-E (Created 9/17)
 CERTIFICATE OF COMPLIANCE
 Project Name: DVC San Ramon Campus Expansion & Renovation Report Page: Page 7 of 7
 Project Address: 1690 Watermill Rd. San Ramon, CA 94582 Date Prepared: 5/17/2019

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards September 2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
 Documentation Author Name: Jason Lau
 Company: Interface Engineering
 Address: 135 Main Street
 City/State/Zip: San Francisco, CA 94105
 Signature Date: 5/17/2019
 Signature: [Signature]
 CEA/HERS Certification Identification (if applicable):
 Phone: 4154897240

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.
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Responsible Designer Name: Jason Lau
 Company: Interface Engineering
 Address: 135 Main Street
 City/State/Zip: San Francisco, CA 94105
 Signature Date: 5/17/2019
 Signature: [Signature]
 License: E16806
 Phone: 4154897240

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards September 2017

STATE OF CALIFORNIA
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A. GENERAL INFORMATION
 01 Project Location (City)
 02 Climate Zone

B. PROJECT SCOPE
 Table Instructions: Include any illuminated signs that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.8 or §141.0(b)(2)(M) for alterations. Exit signs and traffic signs are not required to comply with prescriptive requirements per exceptions to §140.8 and do not need to complete this compliance document. WARNING: Changing the Compliance Method in this table will result in the deletion of data previously input. If you need to change the compliance method, please open a new form or use "Save As".

| 01 | 02 | 03 | 04 | 05 |
|------------------|---------------------------|--------------------------|----------|--------------------------------|
| Name or Item Tag | Complete Sign Description | Sign Status ¹ | Location | Compliance Method ² |
| LLRC Library | | New | Outdoor | Max Allowed Lighting Power |

¹ FOOTNOTE: Sign alterations that increase the connected lighting load, replace and rewire more than 50% of the ballasts, or relocate the sign to a different location must comply with §140.8. See §141.0(b)(2)(M) for more details.
² THE ENERGY VERIFIED Label compliance method is only applicable if the sign has a permanent, factory-installed, ENERGY VERIFIED label certified by UL or comparable, confirming the sign complies with §140.8. Note that using an ENERGY VERIFIED label is an optional compliance path, not a mandatory requirement. See the tool tips for this table for more details.

C. COMPLIANCE RESULTS
 Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance.

| 01 | 02 | 03 | 04 | 05 | 06 | 07 |
|---|---------------------------|-----------------------|------------------------|-------------------------|-----------------------|--------------------|
| Name or Item Tag | Complete Sign Description | Total Allowed (Watts) | Total Designed (Watts) | Compliant Light Sources | ENERGY VERIFIED Label | Compliance Results |
| LLRC Library | (See Table B) | (See Table F) | (See Table F) | (See Table G) | (See Table B) | COMPLIES |
| Controls Compliance (See Table F/G/H for Details) | | | | | | COMPLIES |

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards September 2017

STATE OF CALIFORNIA
Sign Lighting
 NRCC-LTS-E (Created 9/17)
 CERTIFICATE OF COMPLIANCE
 Project Name: DVC San Ramon Campus Expansion & Renovation Report Page: Page 2 of 4
 Project Address: 1690 Watermill Rd. San Ramon, CA 94582 Date Prepared: 5/17/2019

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards September 2017

D. EXCEPTIONAL CONDITIONS
 This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.
 No exceptional conditions apply to this project.

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

F. MAXIMUM ALLOWED LIGHTING POWER AND CONTROLS
 Table Instructions: Complete this table for illuminated signs using the Maximum Allowed Lighting Power compliance method per §140.8(a) as indicated on Table B of this compliance document. Also demonstrate compliance with mandatory controls requirements from §130.2 by indicating control types for each sign.

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
|------------------|----------------------------|--------------------------------|-----------------|-------------------------|-------------------------|---------------------------|--|-----------------|
| Name or Item Tag | Complete Sign Description | Illumination Method | Sign Area (ft²) | Allowed Density (W/ft²) | Design Watts | How Wattage is Determined | Mandatory Controls | Field Inspector |
| LLRC Library | Externally | 28 | 2.3 | 64.4 | 60 | Auto Timer | Shut-Off NA Dimming 14 Demand Response NA | Pass Fail |
| | Luminaire Name or Item Tag | Complete Luminaire Description | | Watts per Luminaire | Total number luminaires | | | |
| | L13 | L13 | | 60 | NA8 Default | | 1 | |

*NOTE: Controls with a * require a note in the space below explaining how compliance is achieved.
 EX: Sign within tunnel illuminated day & night; EXCEPTION to §130.3(a)(2).
 FOOTNOTE: Demand response controls are only required for an Electronic Message Center having a new connected lighting power load greater than 15 kW per §130.3(a)(3).

G. LIGHT SOURCES AND CONTROLS
 This Section Does Not Apply

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards September 2017

STATE OF CALIFORNIA
Sign Lighting
 NRCC-LTS-E (Created 9/17)
 CERTIFICATE OF COMPLIANCE
 Project Name: DVC San Ramon Campus Expansion & Renovation Report Page: Page 3 of 4
 Project Address: 1690 Watermill Rd. San Ramon, CA 94582 Date Prepared: 5/17/2019

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards September 2017

H. ENERGY VERIFIED LABELED SIGNS AND CONTROLS
 This Section Does Not Apply

I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
 Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at http://www.energy.ca.gov/2015publications/CEC-400-2015-033/appendices/forms/NRCL

| YES | NO | Form/Title | Field Inspector | |
|----------------------------------|-----------------------|--|--------------------------|--------------------------|
| | | | Pass | Fail |
| <input checked="" type="radio"/> | <input type="radio"/> | NRCL-LTS-01-E - Must be submitted for all buildings. | <input type="checkbox"/> | <input type="checkbox"/> |

J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
 There are no Certificates of Acceptance applicable to sign lighting requirements.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards September 2017

STATE OF CALIFORNIA
Sign Lighting
 NRCC-LTS-E (Created 9/17)
 CERTIFICATE OF COMPLIANCE
 Project Name: DVC San Ramon Campus Expansion & Renovation Report Page: Page 4 of 4
 Project Address: 1690 Watermill Rd. San Ramon, CA 94582 Date Prepared: 5/17/2019

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards September 2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
 Documentation Author Name: Jason Lau
 Company: Interface Engineering
 Address: 135 Main Street
 City/State/Zip: San Francisco, CA 94105
 Signature Date: 5/17/2019
 Signature: [Signature]
 CEA/HERS Certification Identification (if applicable):
 Phone: 4154897240

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: Jason Lau
 Company: Interface Engineering
 Address: 135 Main Street
 City/State/Zip: San Francisco, CA 94105
 Signature Date: 5/17/2019
 Signature: [Signature]
 License: E16806
 Phone: 4154897240

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards September 2017

APPROVALS

NOLL & TAM ARCHITECTS

729 Heinz Avenue
 Berkeley, CA 94710
 Tel 510.542.2200
 Fax 510.542.2201

ARCHITECTS SEAL

PROJECT 2016-0038
 CONTACT

INTERFACE ENGINEERING
 135 Main Street
 Suite 400
 San Francisco, CA 94105
 TEL 415.489.7240
 FAX 415.489.7289
 www.interfaceengineering.com

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE DESIGN PROFESSIONAL HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERROR OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

PROJECT TITLE

CONTRA COSTA CCD D-4002 DVC SAN RAMON CAMPUS EXPANSION & RENOVATION

1690 Watermill Rd.
 San Ramon, CA 94582

RECORD SET:

THESE DRAWINGS HAVE BEEN PREPARED FROM ADDENDUMS, CCD'S, ASIS AND SELECT RFIS OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM. ONLY A SELECT FEW AS-BUILTS WERE SUBMITTED.

ISSUE TITLE

INCREMENT 2

ISSUE DATE 08/22/2023

NOLL & TAM JOB NUMBER 21630

REVISIONS
 NO. | DATE | DESCRIPTION

SHEET TITLE

TITLE 24 - LLRC INCREMENT 2

SHEET NUMBER

E0.04.2

STATE OF CALIFORNIA
Electrical Power Distribution
 NRCC-ELC-01-E (Revised 01/16)
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 Electrical Power Distribution
 Project Name: DVC San Ramon Campus Expansion & Renovation
 Date Prepared: 5/17/2019

Page 1 of 4

General Information
 Project Address: 1690 Watermill Rd. San Ramon, CA 94582
 Climate Zone: 12
 Conditioned Floor Area: 5,823
 Unconditioned Floor Area: 1,200

Building Type: Nonresidential High-Rise Residential Hotel/Motel
 Schools Relocatable Public Schools Conditioned Spaces Unconditioned Spaces
 Phase of Construction: New Construction Addition Alteration

In the table below identify all applicable construction documents that specify the requirements for the scope of responsibility reported by this certificate. Use additional pages as needed to list all construction documents related to compliance of Section 130.5.

| Document Number | Document Title/Descriptions (Include description information for Table or Schedule if it contains compliance information) | Document Sheet # or Page # | Indicate which subsection of Section 130.5 is related to the document (e.g. 130.5(a) for service electrical metering) |
|-----------------|---|----------------------------|---|
| E0.05.2 | TITLE 24 - CAFE INCREMENT 2 | E0.05.2 | 130.5(c) |
| E2.31.2 | 1ST FLOOR - LIBRARY LEARNING RESOURCE CENTER - POWER | E2.31.2 | 130.5(d) |
| E4.01.2 | PARTIAL SINGLE LINE DIAGRAMS, PANEL SCHEDULES, AND KITCHEN EQUIPMENT | E4.01.2 | 130.5(b) |

Add Row Remove Last

A. Service Electrical Metering
 Check one of the three boxes below if the electrical power distribution system is in compliance with Section 130.5(a). Fill out Column 1 through 6 of table below.

For newly installed electrical service in newly constructed buildings, Service Electrical Metering is required according to Section 130.5(a).
 For new or replacement electrical service equipment in existing buildings, Service Electrical Metering is required according to Section 141.0(b)(2).
 EXCEPTION to Electrical Service Metering: Service or feeder for which the utility company provides a metering system that indicates instantaneous kW demand and kWh for a utility-defined period. Fill out Column 1, 2 and 6 of table below with the compliance information.

Fill out a separate line for each electrical service that is connected to the building.

| Electrical Service Schedule | Electrical Service Rating | Metering Capabilities (check all that are present) | Exception to 130.5 (a) | Field Inspector | | | |
|--|---------------------------|--|--------------------------|--|--------------------------|--------------------------|----------------------------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
| Electrical Service Designation/ Location/Description | kVA | Instantaneous (at the time) kW | Historical peak (kW) | Tracking kWh for a user-definable period | kWh per rate period | Utility metering system | Check that the metering complies |
| | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Add Row Remove Last

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

STATE OF CALIFORNIA
Electrical Power Distribution
 NRCC-ELC-01-E (Revised 01/16)
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 Electrical Power Distribution
 Project Name: DVC San Ramon Campus Expansion & Renovation
 Date Prepared: 5/17/2019

Page 3 of 4

C. Voltage Drop
 Check all boxes below if the electrical power distribution system is in compliance with Section 130.5(f).

The electrical power distribution system meets the voltage drop requirement of Section 130.5(f). The maximum combined voltage drop on feeder conductors and branch circuit conductors to the furthest connected load or outlet, do not exceed 5%.

Voltage drop calculation documents showing compliance to Section 130.5(f) are submitted as part of the compliance document submit.

Enforcement Agency Check that the system complies

D. Circuit Controls for 120-Volt Receptacles and Controlled Receptacles
 Check one or more boxes below for applicable requirements of Section 130.5(d) for the electrical power distribution system.

The control is capable of automatically shutting OFF the controlled receptacles when the space is typically unoccupied, either at the receptacle or circuit level. For the automatic time switch control, it incorporates an override control that allows the controlled receptacle to remain ON for no more than 2 hours when an override is initiated and an automatic holiday "shut OFF" feature that turns OFF all loads for at least 24 hours and then resumes the normally scheduled operation. Countdown timer switches are not to be used to comply with the automatic time switch control requirements. The controls meet the requirement of Section 130.5(d)(1).

There is at least one controlled receptacle within 6 ft from each uncontrolled receptacle. Where receptacles are installed in modular furniture in open office area, at least one controlled receptacle is installed at each workstation. The receptacles meet the requirement of Section 130.5(d)(2).

There are installed split wired receptacles with at least one controlled and one uncontrolled receptacle. Where receptacles are installed in modular furniture in open office area, at least one controlled receptacle is installed at each workstation. The receptacles meet the requirement of Section 130.5(d)(3).

Permanent and durable marking for controlled receptacles or circuits to differentiate them from uncontrolled receptacles or circuits is provided. The markings meet the requirement of Section 130.5(d)(3).

For hotel and motel guest rooms, there are controlled receptacles for at least one-half of the 120-volt receptacles in each guest room. Electric circuits serving controlled receptacles in guestrooms are installed to have captive key controls, occupancy sensing controls, or automatic controls so the power is switched off no longer than 30 minutes after the guest room has been vacated. The receptacles meet the requirement of Section 130.5(d)(4).

Receptacles that are only for the following purposes are exempted from Section 130.5(d):
 - Receptacles specifically for refrigerators and water dispensers in kitchen areas.
 - Receptacles located a minimum of six ft above the floor that are specifically for clocks.
 - Receptacles for network copiers, fax machines, A/V and data equipment other than personal computers in copy rooms.
 - Receptacles on circuits rated more than 20 amperes.
 - Receptacles connected to an uninterruptible power supply (UPS) that are intended to be in continuous use, 24 hours per day/365 days per year, and are marked to differentiate them from other uncontrolled receptacles or circuits.

Field Inspector Check that the system complies

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

Voltage drop calculator

| SINGLE PHASE | VOLTAGE | # OF SETS WIRES | WIRE SIZE | AMPACITY | LENGTH | VOLTAGE DROP | % VOLTAGE DROP | 3% TOLERANCE MET? |
|--------------|---------|-----------------|-----------|----------|----------|--------------|----------------|-------------------|
| | 120 | 1 | 4 | 5 A | 150 Feet | 1.96 | 2.46 | YES |

Formulas
 1 phase calc.
 $VD = (2 * K * L) / CM$
 3 phase line to line calc.
 $VD = (SQRT 3) * (K * L) / CM$
 3 phase line to neutral calc.
 $VD = (K * L) / CM$
 $VD = VOLTAGE DROP$
 $K = RESISTIVITY = 12.87$
 $L = LENGTH$
 $CM = CIRCULAR MIL$

STATE OF CALIFORNIA
Electrical Power Distribution
 NRCC-ELC-01-E (Revised 01/16)
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 Electrical Power Distribution
 Project Name: DVC San Ramon Campus Expansion & Renovation
 Date Prepared: 5/17/2019

Page 2 of 4

B. Separation of Electrical Circuits for Electrical Energy Monitoring
 Check all boxes below if the electrical power distribution system is in compliance with Section 130.5(b).
 The electrical power distribution system meets the separation of electrical circuits for electrical energy monitoring requirement of Section 130.5(b). The electrical power distribution system is designed so that measurement devices can monitor the electrical energy usage of load types according to TABLE 130.5.B.

Describe the electrical power distribution system installed and the compliance method chosen in meeting the requirement of Section 130.5(b). Use the space below to include the information. Examples of compliance methods are detailed in Nonresidential Compliance Manual Chapter 8. Fill out Column 1 thru 3 with the compliance information.

| General Information | Electrical Power Distribution System Information and Method of Compliance | Electrical Service Rating | Enforcement Agency |
|--|---|---------------------------|--------------------------------|
| 01 | 02 | 03 | 04 |
| Designation/Location/Description Panel LTRC | Describe the electrical power distribution system installed and the compliance method used Branch Circuit Monitoring Panelboard Provided | kVA 80 | Check that the system complies |

Documentation Author's Declaration Statement
 I certify that this Certificate of Compliance documentation is accurate and complete.
 Documentation Author Name: Jason Lau
 Signature: [Signature]
 Date Signed: 5/17/2019
 Address: 135 Main St. Suite 400
 City/State/Zip: San Francisco, CA 94105
 Phone: 415-489-7240

Responsible Person's Declaration Statement
 I certify the following under penalty of perjury, under the laws of the State of California:
 1. The information provided on this Certificate of Compliance is true and correct.
 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit 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: Jason Lau
 Company: Interface Engineering
 Address: 135 Main St. Suite 400
 City/State/Zip: San Francisco, CA 94105
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CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

STATE OF CALIFORNIA
Electrical Power Distribution
 NRCC-ELC-01-E (Revised 01/16)
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 Electrical Power Distribution
 Project Name: DVC San Ramon Campus Expansion & Renovation
 Date Prepared: 5/17/2019

Page 4 of 4

Documentation Author's Declaration Statement
 I certify that this Certificate of Compliance documentation is accurate and complete.
 Documentation Author Name: Jason Lau
 Signature: [Signature]
 Date Signed: 5/17/2019
 Address: 135 Main St. Suite 400
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 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.
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Responsible Designer Name: Jason Lau
 Company: Interface Engineering
 Address: 135 Main St. Suite 400
 City/State/Zip: San Francisco, CA 94105
 Date Signed: 5/17/2019
 License: E16806
 Phone: 415-489-7240

H. INDOOR LIGHTING CONTROLS (Not Including PAFs)
 Table Instructions: Please include lighting controls for conditioned and unconditioned spaces in this table. When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.

| Area Level Controls | Building Level Controls | | |
|---------------------|--------------------------------------|---------------------------------------|---------------------------|
| | 01 | 02 | 03 |
| | Mandatory Demand Response \$130.1(e) | Shut-off Controls \$130.1(c) | Field Inspector Pass Fail |
| | Not Required < 10,000 SF | Whole Building: Automatic Time Switch | <input type="checkbox"/> |

Area Level Controls

| 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |
|---|--|--------------------------|---------------------------------|------------------------------|---|----------------------------------|-----------------------------------|---------------------------|
| Area Description | Complete Building or Area Category Primary Function Area | Area Controls \$130.1(a) | Multi-Level Controls \$130.1(b) | Shut-Off Controls \$130.1(c) | Primary/Skylight Daylighting \$130.1(d) | Secondary Daylighting \$140.6(d) | Interlocked Systems \$140.6(a)(1) | Field Inspector Pass Fail |
| Cafe | Kitchen, Food Preparation | Manual ON/OFF | Dimmer | Occ Sensor | N/A | N/A | <input type="checkbox"/> | <input type="checkbox"/> |
| Learning Commons | Dining | Manual ON/OFF | Dimmer | Occ Sensor | Included | N/A | <input type="checkbox"/> | <input type="checkbox"/> |
| *NOTES: Controls with a * require a note in the space below explaining how compliance is achieved. EX: Conference 1. Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)(2) | | | | | | | | |

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS
 Table Instructions: Complete the table for each area complying using the Complete Building or Area Category Methods per §140.6(b). Indicate if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used.

| Conditioned Spaces | 01 | 02 | 03 | 04 | 05 | 06 |
|--------------------|--|-------------------------|--------------|-------------------------|-------------------------------------|-----------------------------|
| Area Description | Complete Building or Area Category Primary Function Area | Allowed Density (W/Ft²) | Area (Ft²) | Allowed Wattage (Watts) | Additional Allowances / Adjustments | Footnotes PAF Portable Litg |
| Kitchen | | 1.2 | 813 | 975.6 | | |
| Dining Area | | 1 | 3,084 | 3,684 | | |
| TOTAL | | | 3,897 | 4,059.6 | See Tables J, K, R for detail | |

J. POWER ADJUSTMENT: PORTABLE LIGHTING IN OFFICES
 This Section Does Not Apply

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

STATE OF CALIFORNIA
Indoor Lighting
 NRCC-LTI-E (Created 3/18)
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 Indoor Lighting
 Project Name: DVC San Ramon Campus Expansion & Renovation
 Project Address: 1690 Watermill Rd. San Ramon, CA 94582
 Report Page: Page 1 of 6
 Date Prepared: 5/17/2019

A. GENERAL INFORMATION

| 01 | 02 | 03 | 04 | 05 | 06 |
|--|----|------------------------------------|------------|--------------------------------------|------------|
| Project Location (city) | 12 | Total Conditioned Floor Area (Ft²) | 3,897 | Total Unconditioned Floor Area (Ft²) | 0 |
| Climate Zone | 12 | Area (Ft²) | 3,897 | Area (Ft²) | 0 |
| Occupancy Types Within Project (select all that apply): | | Calculation Method | Area (Ft²) | Calculation Method | Area (Ft²) |
| <input type="checkbox"/> Office <input type="checkbox"/> Retail <input type="checkbox"/> Warehouse <input type="checkbox"/> Hotel/Motel <input type="checkbox"/> School <input type="checkbox"/> Support Areas | | Area Category | 3,897 | Area Category | 0 |
| <input type="checkbox"/> Parking Garage <input type="checkbox"/> High-Rise Residential <input type="checkbox"/> Relocatable <input checked="" type="checkbox"/> Other (write in): | | | | | |

B. PROJECT SCOPE
 Table Instructions: Include any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)(2) for alterations. WARNING: Changing the Calculation Method in this table will result in the deletion of data previously input. If you need to change the calculation method, please open a new form or use "Save As".

| Scope of Work | Conditioned Spaces | Unconditioned Spaces | | |
|---|--------------------|----------------------|--------------------|------------|
| 01 | 02 | 03 | 04 | 05 |
| My Project Consists of (check all that apply): | Calculation Method | Area (Ft²) | Calculation Method | Area (Ft²) |
| <input checked="" type="checkbox"/> New Lighting System | Area Category | 3,897 | Area Category | 0 |
| <input type="checkbox"/> Altered Lighting System | | | | |
| Total Area of Work (Ft²) | 3,897 | | 0 | |

C. COMPLIANCE RESULTS
 Table Instructions: 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 be combined for compliance per §140.6(b)(1). | Allowed Lighting Power per §140.6(b) (Watts) | | | | | Actual Lighting Power per §140.6(a) (Watts) | | | | | Compliance Results |
|--|--|--------------------------------|-----------------------------------|-----------------------|--------------------------|---|-----------------------------------|----------------------|-----------------------|-------------------------|-----------------------|
| | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | |
| Complete Building \$140.6(c)(1) | Area Category \$140.6(c)(2) | Area Footcandle \$140.6(c)(2G) | Tailored Footcandle \$140.6(c)(3) | Total Allowed (Watts) | Total Designated (Watts) | Portable Lighting \$140.6(a) | PAF Control Credits \$140.6(a)(2) | Total Actual (Watts) | *Includes Adjustments | 05 Must be ≥ 09 \$140.6 | |
| (See Table I) | (See Table J) | (See Table K) | (See Table L) | 4,059.6 | 2,280 | (See Table F) | (See Table J) | (See Table R) | 2,280 | COMPLIES | |
| Conditioned: | = 4,059.6 | | | | | = 2,280 | | | | | COMPLIES |
| Unconditioned: | = 0 | | | | | = 0 | | | | | COMPLIES |
| Controls Compliance (See Table H for Details) | | | | | | | | | | | COMPLIES |
| Rated Power Reduction Compliance (See Table S for Details) | | | | | | | | | | | Not Applicable |

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards March 2016

STATE OF CALIFORNIA
Indoor Lighting
 NRCC-LTI-E (Created 3/18)
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 Indoor Lighting
 Project Name: DVC San Ramon Campus Expansion & Renovation
 Project Address: 1690 Watermill Rd. San Ramon, CA 94582
 Report Page: Page 2 of 6
 Date Prepared: 5/17/2019

D. EXCEPTIONAL CONDITIONS
 This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.
 No exceptional conditions apply to this project.

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

F. INDOOR LIGHTING FIXTURE SCHEDULE
 Table Instructions: include all permanent designed lighting and all portable lighting in offices.

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
|---|--------------------------------|--|---------------------|---------------------------|-------------------------|-------------------------|--------------|---------------------------|
| Name or Item Tag | Complete Luminaire Description | Specialized Luminaire Types Track Portable | Watts per luminaire | How Wattage is determined | Total number luminaires | Exempt per §140.6(a)(3) | Design Watts | Field Inspector Pass Fail |
| L15 | L15 - Recessed Downlight LED | | 30 | NAB Default | 18 | | 540 | <input type="checkbox"/> |
| L16 | L16 - Pendant LED | | 8 | NAB Default | 6 | | 48 | <input type="checkbox"/> |
| L17A | L17B - Surface Round LED | | 15 | NAB Default | 1 | | 15 | <input type="checkbox"/> |
| L17B | L17B - Surface Round LED | | 15 | NAB Default | 2 | | 30 | <input type="checkbox"/> |
| L18B | L18B - Large Pendant LED | | 110 | NAB Default | 11 | | 1,210 | <input type="checkbox"/> |
| L19 | L19 - Recessed Downlight LED | | 44 | NAB Default | 5 | | 220 | <input type="checkbox"/> |
| L20 | L20 - 2x4 Recessed LED Troffer | | 71.5 | NAB Default | 2 | | 143 | <input type="checkbox"/> |
| L7 | L7 - Recessed Downlight LED | | 37 | NAB Default | 2 | | 74 | <input type="checkbox"/> |
| Total Designed Watts CONDITIONED SPACES: | | | | | 2,280 | | | |

*NOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c). Wattage used must be the maximum rated for the luminaire, not the lamp.

G. TRACK LIGHTING
 This Section Does Not Apply

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards March 2016

STATE OF CALIFORNIA
Indoor Lighting
 NRCC-LTI-E (Created 3/18)
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 Indoor Lighting
 Project Name: DVC San Ramon Campus Expansion & Renovation
 Project Address: 1690 Watermill Rd. San Ramon, CA 94582
 Report Page: Page 3 of 6
 Date Prepared: 5/17/2019

H. INDOOR LIGHTING CONTROLS (Not Including PAFs)
 Table Instructions: Please include lighting controls for conditioned and unconditioned spaces in this table. When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.

| Area Level Controls | Building Level Controls | | |
|---------------------|--------------------------------------|---------------------------------------|---------------------------|
| | 01 | 02 | 03 |
| | Mandatory Demand Response \$130.1(e) | Shut-off Controls \$130.1(c) | Field Inspector Pass Fail |
| | Not Required < 10,000 SF | Whole Building: Automatic Time Switch | <input type="checkbox"/> |

Area Level Controls

| 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |
|---|--|--------------------------|---------------------------------|------------------------------|---|----------------------------------|-----------------------------------|---------------------------|
| Area Description | Complete Building or Area Category Primary Function Area | Area Controls \$130.1(a) | Multi-Level Controls \$130.1(b) | Shut-Off Controls \$130.1(c) | Primary/Skylight Daylighting \$130.1(d) | Secondary Daylighting \$140.6(d) | Interlocked Systems \$140.6(a)(1) | Field Inspector Pass Fail |
| Cafe | Kitchen, Food Preparation | Manual ON/OFF | Dimmer | Occ Sensor | N/A | N/A | <input type="checkbox"/> | <input type="checkbox"/> |
| Learning Commons | Dining | Manual ON/OFF | Dimmer | Occ Sensor | Included | N/A | <input type="checkbox"/> | <input type="checkbox"/> |
| *NOTES: Controls with a * require a note in the space below explaining how compliance is achieved. EX: Conference 1. Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)(2) | | | | | | | | |

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS
 Table Instructions: Complete the table for each area complying using the Complete Building or Area Category Methods per §140.6(b). Indicate if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used.

| Conditioned Spaces | 01 | 02 | 03 | 04 | 05 | 06 |
|--------------------|--|-------------------------|--------------|-------------------------|-------------------------------------|-----------------------------|
| Area Description | Complete Building or Area Category Primary Function Area | Allowed Density (W/Ft²) | Area (Ft²) | Allowed Wattage (Watts) | Additional Allowances / Adjustments | Footnotes PAF Portable Litg |
| Kitchen | | 1.2 | 813 | 975.6 | | |
| Dining Area | | 1 | 3,084 | 3,684 | | |
| TOTAL | | | 3,897 | 4,059.6 | See Tables J, K, R for detail | |

J. POWER ADJUSTMENT: PORTABLE LIGHTING IN OFFICES
 This Section Does Not Apply

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards March 2016

STATE OF CALIFORNIA
Indoor Lighting
 NRCC-LTI-E (Created 3/18)
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 Indoor Lighting
 Project Name: DVC San Ramon Campus Expansion & Renovation
 Project Address: 1690 Watermill Rd. San Ramon, CA 94582
 Report Page: Page 4 of 6
 Date Prepared: 5/17/2019

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
 Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E, Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at http://www.energy.ca.gov/2015publications/CEC-400-2015-03/appendices/forms/NRCL

| YES | NO | Form/Title | Field Inspector |
|-------------------------------------|-------------------------------------|---|--------------------------|
| | | | Pass Fail |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | NRCL-LTI-01-E - Must be submitted for all buildings | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | NRCL-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance | <input type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | NRCL-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance. | <input type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | NRCL-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance. | <input type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | NRCL-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance. | <input type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | NRCL-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance. | <input type="checkbox"/> |

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
 Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E, Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATCP). For more information visit: http://www.energy.ca.gov/title24/2016standards/providers.html

| YES | NO | Form/Title | Field Inspector |
|-------------------------------------|-------------------------------------|---|--------------------------|
| | | | Pass Fail |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls. | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | NRCA-LTI-03-A - Must be submitted for automatic daylight controls. | <input type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls. | <input type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF). | <input type="checkbox"/> |

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards March 201

GENERAL SHEET NOTES

- A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF RECEPTACLES AND ELECTRICAL DEVICES WITH ARCHITECT PRIOR TO INSTALLATION. REFER TO DETAIL 6'G3.21.0.
- B. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS OF SITE LIGHTING WITH LANDSCAPE ARCHITECTS PRIOR TO INSTALLATION.

SHEET KEYNOTES

- 1. EXISTING 2-1/2" CONDUIT WITH PULLSTRING FROM INCREMENT 1.
- 2. CONTINUE 2-1/2" CONDUIT TO NEW PANEL 'LLRC' AS SHOWN WITH 4 #4/0 CU, 1 #4CU GND. ROUTE CONDUIT FROM UNDERGROUND UP ALONG WALL TO CEILING SPACE AND TO PANEL 'LLRC' LOCATION.
- 3. EXISTING LIGHT POST TO REMAIN.
- 4. EXISTING LIGHT POST TO BE DISCONNECTED AND REMOVED. TERMINATE EXISTING LIGHTING CIRCUIT UP TO NEAREST PULL BOX. BRIDGE/MODIFY/EXTEND WIRING AS REQUIRED TO KEEP OTHER EXISTING POLE LUMINAIRES OPERATIONAL.
- 5. NEW LOCATION OF RELOCATED LIGHT POST. CONNECT TO EXISTING EXTERIOR LIGHTING CIRCUIT COMPLETE AS REQUIRED TO PLACE INTO SERVICE.
- 6. PROVIDE RELAY UL924 FOR ALL SWITCHED EMERGENCY LUMINAIRES AS REQUIRED. PROVIDE ALL NECESSARY DEVICES, CONDUITS AND WIRES REQUIRED FOR A COMPLETE INSTALLATION. CONNECT EMERGENCY POWER TO INVERTER CIRCUIT AS INDICATED.
- 7. POWER CONNECTION TO FOUNTAIN PUMP. COORDINATE WITH LANDSCAPE DRAWINGS.

RFI #246 - TIMELOCKS FOR (3) FOUNTAINS. USE SINGLE TIMECLOCK FOR 3 FOUNTAIN PUMPS. CIRCUIT THE 2 SMALLER PUMPS (PAF-40SV) TO LLRC-59 WITH 20A GFCI CIRCUIT BREAKERS AS SHOWN ON E4.01.2. PROVIDE ADDITIONAL CIRCUIT FOR LARGE FOUNTAIN PUMP (PAF-75SV), LLRC-57, 20A GFCI CIRCUIT BREAKER.

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PROJECT TITLE

**CONTRA COSTA
CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION &
RENOVATION**

1690 Watermill Rd.
San Ramon, CA 94582

RECORD SET:

THESE DRAWINGS HAVE BEEN PREPARED FROM ADDENDUMS, CCD'S, ASIS AND SELECT RFI'S OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM. ONLY A SELECT FEW AS-BUILTS WERE SUBMITTED.

ISSUE TITLE

INCREMENT 2

ISSUE DATE 08/22/2023

NOLL & TAM JOB NUMBER 21630

REVISIONS

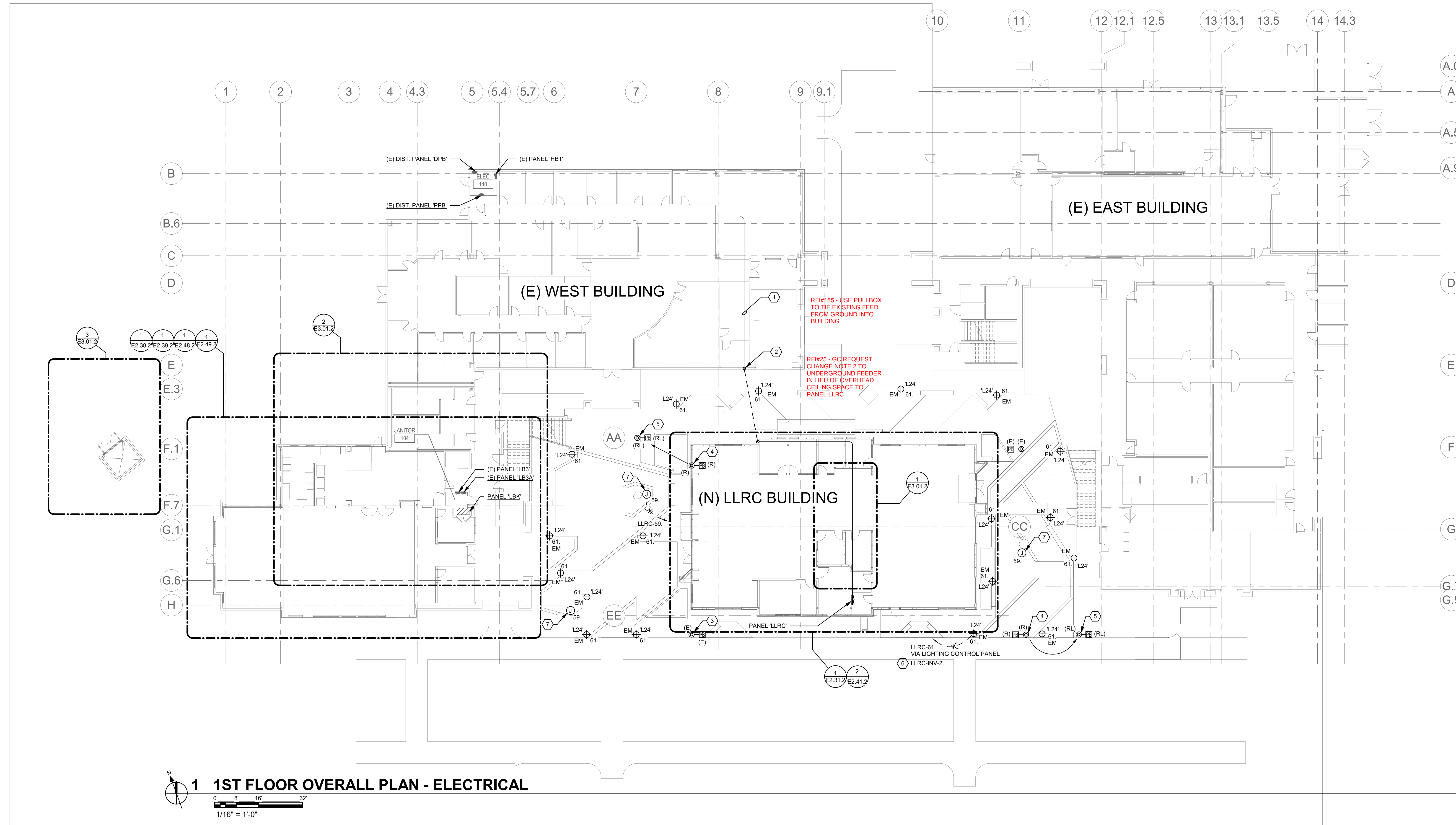
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SHEET TITLE

**1ST FLOOR OVERALL
PLAN - ELECTRICAL**

SHEET NUMBER

E2.30A.2



1 1ST FLOOR OVERALL PLAN - ELECTRICAL
1/16" = 1'-0"

RFI #184 - SUPPLY POWER TO ALL LIGHTS IN ROOM VIA INVERTER IN MECH RM 11, TECH RM 13, ELECTRICAL RM 14.

GENERAL SHEET NOTES

- A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF RECEPTACLES AND ELECTRICAL DEVICES WITH ARCHITECT PRIOR TO INSTALLATION. REFER TO DETAIL 6/G3.21.0.
- B. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS OF HVAC UNITS WITH DIVISION 23 PRIOR TO INSTALLATION.

SHEET KEYNOTES

- 1. PROVIDE RECEPTACLE FOR SHORT THROW PROJECTOR.
- 2. PROVIDE JUNCTION BOXES FOR POWER CONNECTION TO AUTOMATIC DOOR OPERATOR AND CONNECTION TO DOOR ACTIVATORS. COORDINATE EXACT POWER REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION. PROVIDE ALL NECESSARY APPURTENANCES REQUIRED FOR A COMPLETE INSTALLATION.
- 3. POWER CONNECTION TO PRESSURE RELIEF LOUVERS IN SKYLIGHT WELLS.
- 4. POWER CONNECTIONS TO LAPTOP CHARGING CARTS.
- 5. POWER CONNECTIONS TO IT SERVER RACK. MOUNT TO LADDER RACKING ABOVE EQUIPMENT RACK. COORDINATE WITH DIVISION 27.
- 6. PROVIDE POWER CONNECTION FOR ELECTRIC FIRE BELL.
- 7. MOUNT RECEPTACLES WITHIN CASEWORK.
- 8. PROVIDE POWER CONNECTION TO MECHANICAL EQUIPMENT CONTROL PANEL.
- 9. SPACE PROVISION FOR FUTURE SOLAR INVERTER.
- 10. 2" CONDUIT STUB UP TO SOLAR READY AREA ON ROOF FOR FUTURE PHOTOVOLTAIC EQUIPMENT.

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PROJECT TITLE

CONTRA COSTA CCD D-4002 DVC SAN RAMON CAMPUS EXPANSION & RENOVATION

1690 Watermill Rd.
San Ramon, CA 94582

RECORD SET:

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INCREMENT 2

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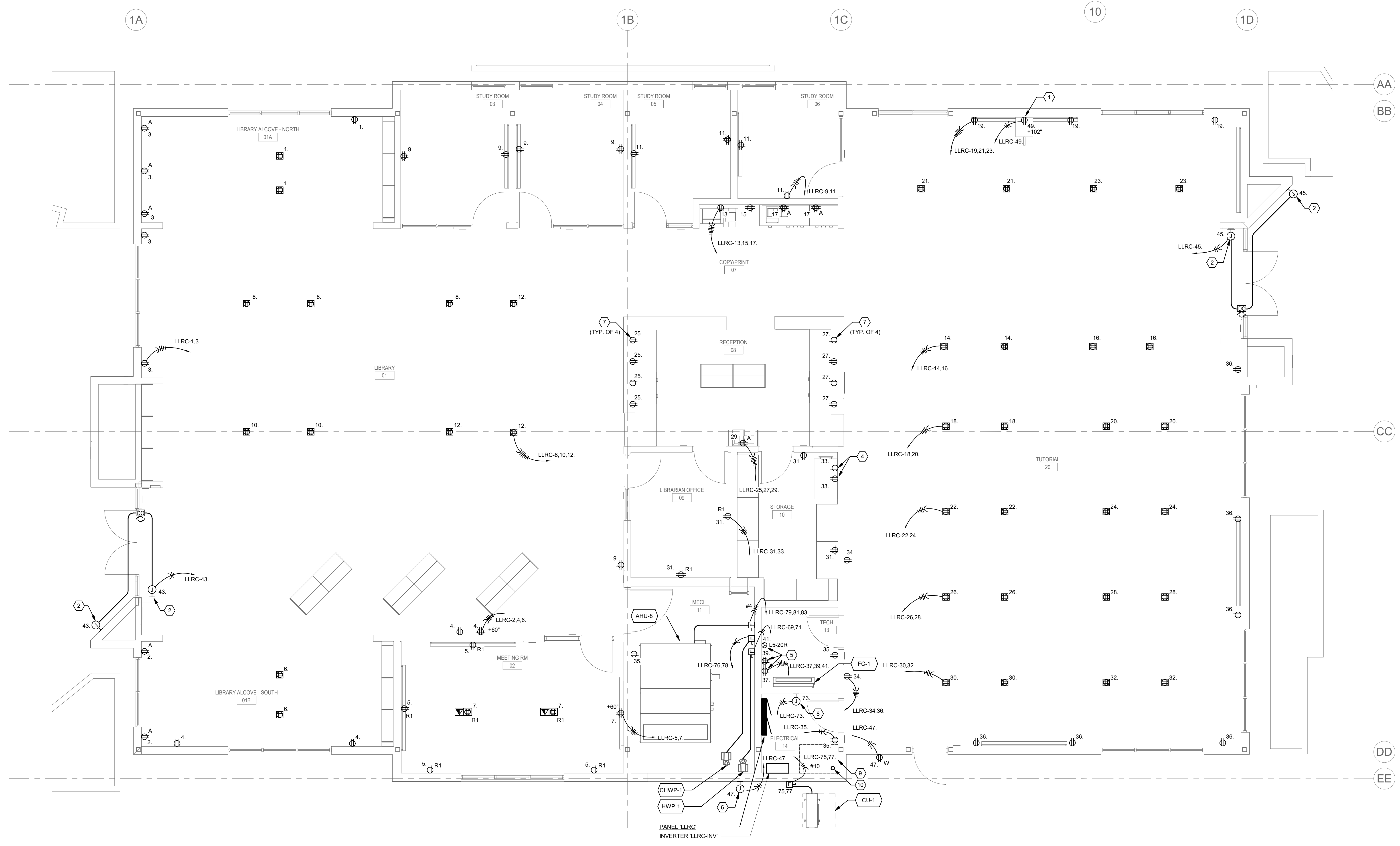
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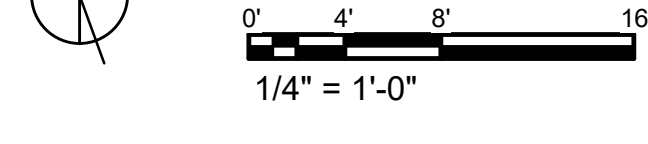
SHEET TITLE
**1ST FLOOR - LIBRARY
LEARNING RESOURCE
CENTER - POWER**

SHEET NUMBER

E2.31.2



1 FLOOR PLAN - LIBRARY LEARNING RESOURCE CENTER



GENERAL SHEET NOTES

A. ALL RECEPTACLES, TEL/DATA OUTLETS, AND ELECTRICAL DEVICES DENOTED WITH AN (X) TO BE DISCONNECTED AND REMOVED. TERMINATE EXISTING CIRCUIT AND ASSOCIATED WIRING UP TO CEILING JUNCTION BOX FOR REUSE.

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PROJECT TITLE

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CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION &
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1690 Watermill Rd.
San Ramon, CA 94582

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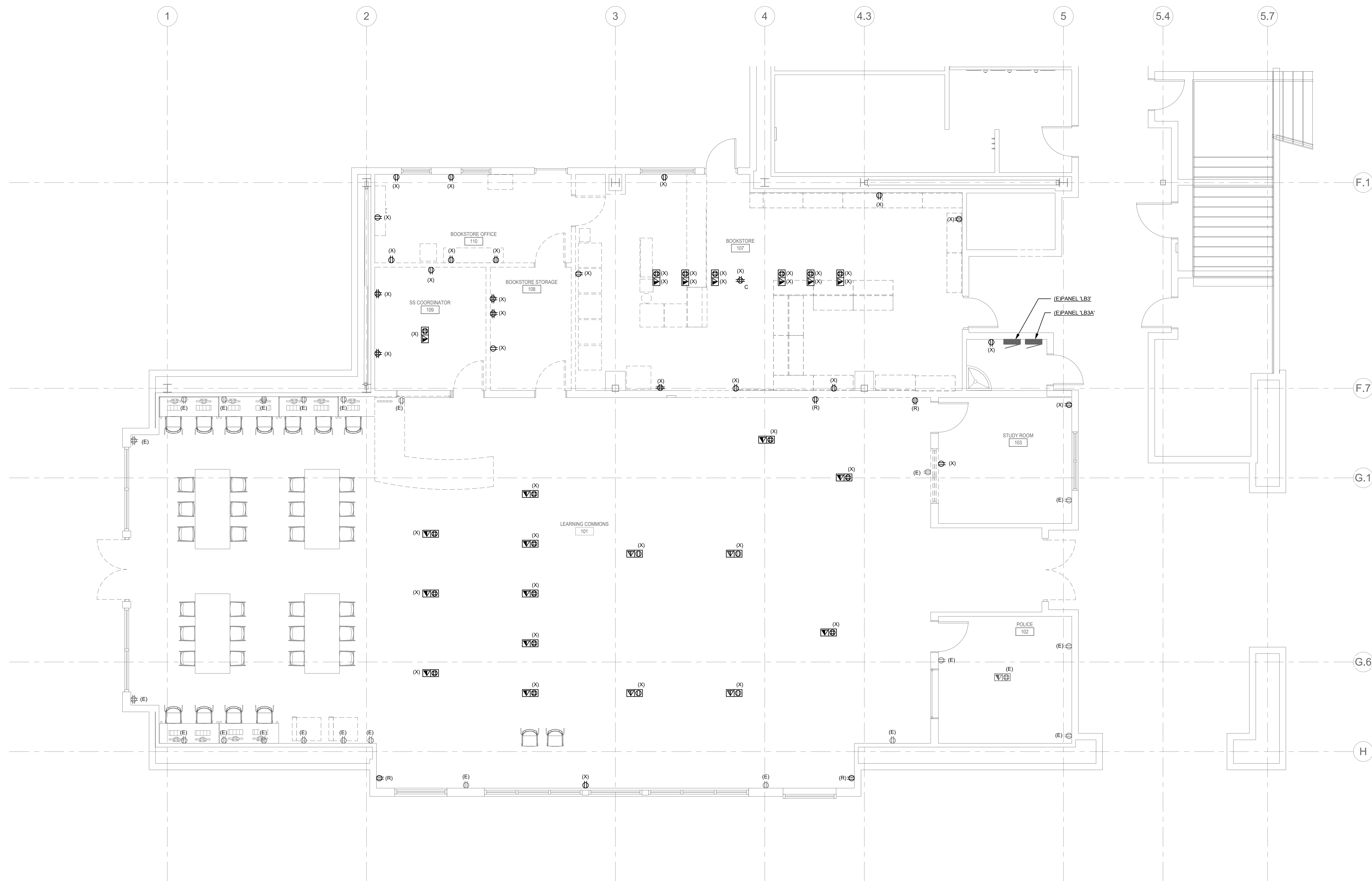
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SHEET TITLE

**DEMO - 1ST FLOOR -
WEST - BOOKSTORE &
LEARNING COMMONS
- POWER**

SHEET NUMBER

E2.38.2



1 DEMO - 1ST FLOOR - WEST - LEARNING COMMONS - POWER
0' 4' 8' 16'
1/4" = 1'-0"

GENERAL SHEET NOTES

- A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF RECEPTACLES AND ELECTRICAL DEVICES WITH ARCHITECT PRIOR TO INSTALLATION. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF FOOD SERVICE EQUIPMENT CONNECTIONS WITH FOOD SERVICE CONSULTANT PRIOR TO INSTALLATION.
- B. FOOD SERVICE EQUIPMENT TAGS: (E) REFER TO KITCHEN EQUIPMENT CONNECTION SCHEDULE ON SHEET E4.01.2. SEE SCHEDULE FOR EQUIPMENT CONNECTIONS AND CIRCUITING. REFER TO FOOD SERVICE DRAWINGS FOR ADDITIONAL INFORMATION.
- C. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS OF FOOD SERVICE EQUIPMENT WITH FOOD SERVICE DRAWINGS PRIOR TO INSTALLATION.
- D. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS OF PLUMBING EQUIPMENT WITH DIVISION 22 PRIOR TO INSTALLATION.

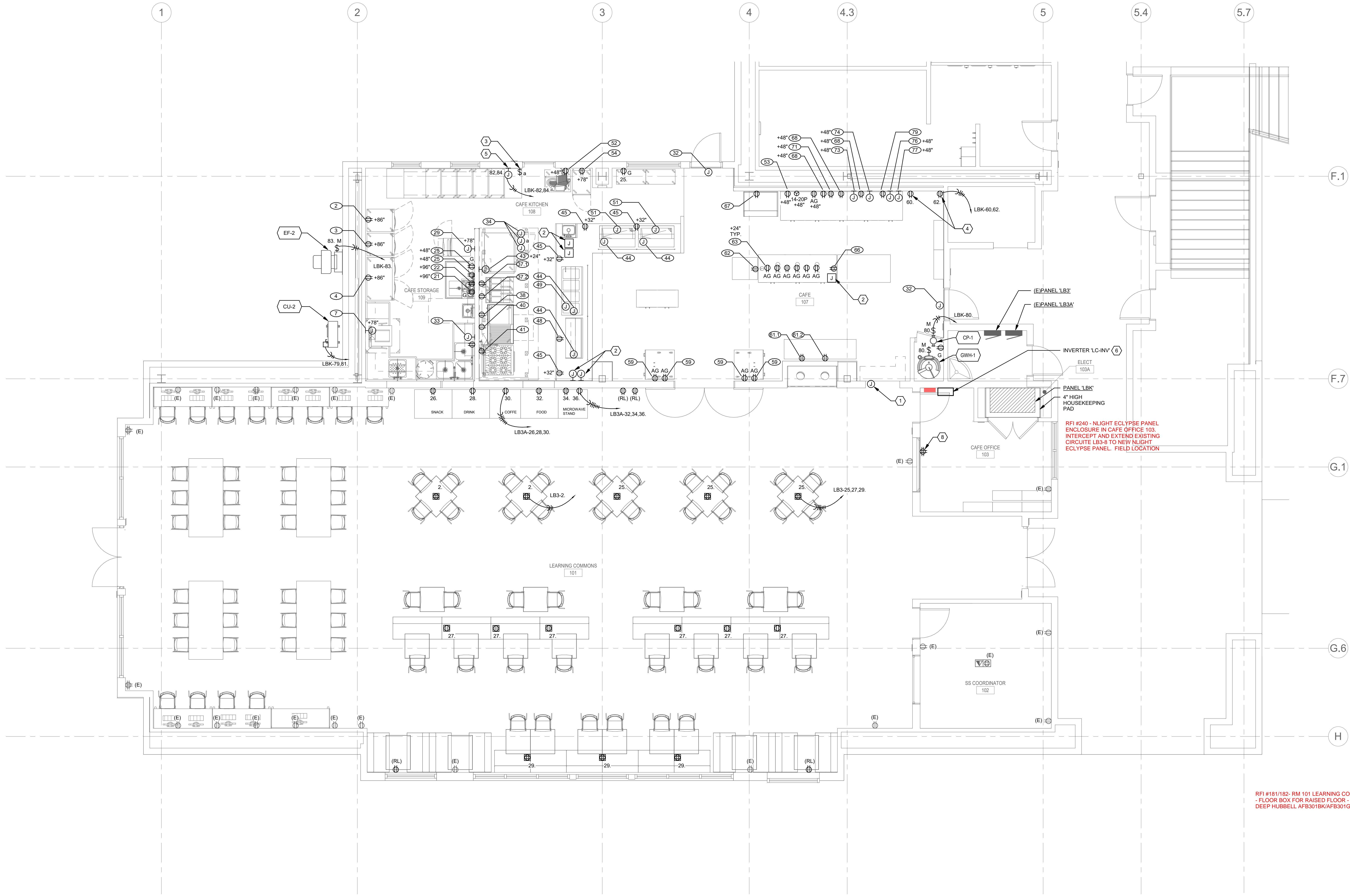
SHEET KEYNOTES

- 1. POWER CONNECTION TO MOTORIZED ROLL UP DOOR.
- 2. MINIMUM 1" TO JUNCTION BOX LOCATION FOR CABLE ROUTING TO EQUIPMENT MOUNTED IN CASEWORK. REFER TO FOOD SERVICE DRAWINGS FOR DETAILS.
- 3. HOOD LIGHT SWITCHES. REFER TO FOOD SERVICE DRAWINGS FOR DETAILS.
- 4. DEDICATED RECEPTACLES FOR FUTURE VENDING EQUIPMENT.
- 5. POWER CONNECTION TO HEAT TRACE PANEL.
- 6. INVERTER MOUNTED ABOVE CAFE OFFICE CEILING.
- 7. NOT USED.
- 8. CONNECT NEW RECEPTACLE TO EXISTING RECEPTACLE CIRCUIT IN ROOM COMPLETE AS REQUIRED TO PLACE INTO SERVICE.

RFI # XXX - MEYERS #119
ITEM 61 - REFRIGERATED MERCHANDISER MODEL
B42 DISCONTINUED. NEW MODEL B4524. APPEARS
NEW POWER REQUIREMENT IS 208V, 1 PHASE, 20A.
WITH TWO UNITS, REPLACE RECEPTACLES TO NEMA
6-20R. REPULL CONDUCTORS- REUSE CONDUIT.
BREAKER ON CIRCUIT LBK-43 AND 45 REPLACED
WITH 20A/2P BREAKERS AND ANOTHER 20A/2P
BREAKER ADDED ON CIRCUIT LBK-75-77. ONE
FRIDGE ON CIRCUIT LBK-43,45 AND OTHER ON
CIRCUIT LBK-75,77.

RFI #240 - NLIGHT ECLYPSE PANEL
ENCLOSURE IN CAFE OFFICE 103.
INTERCEPT AND EXTEND EXISTING
CIRCUITE LB3-8 TO NEW NLIGHT
ECLYPSE PANEL. FIELD LOCATION

RFI #181/182- RM 101 LEARNING COMMONS
- FLOOR BOX FOR RAISED FLOOR - 4 GANG
DEEP HUBBELL AFB301BK/AFB301GNT



1 NEW - 1ST FLOOR - WEST - LEARNING COMMONS - POWER

0' 2' 4' 8'
1/4" = 1'-0"

GENERAL SHEET NOTES

- A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF LUMINAIRES AND LIGHTING CONTROLS WITH ARCHITECT PRIOR TO INSTALLATION. REFER TO DETAIL 6/63.21.0.
- SHEET KEYNOTES**
- 1. PRIMARY DAYLIT ZONE OR SKYLIT DAYLIT ZONE.
 - 2. SECONDARY DAYLIT ZONE.
 - 3. PROVIDE RELAY UL924 FOR ALL SWITCHED EMERGENCY LUMINAIRES. DENOTED BY EM. AS REQUIRED. PROVIDE ALL NECESSARY DEVICES, CONDUITS AND WIRES REQUIRED FOR A COMPLETE INSTALLATION. CONNECT EMERGENCY POWER TO INVERTER CIRCUIT AS INDICATED.
 - 4. PROVIDE MULTI-ZONE SWITCH IN A SINGLE GANG BOX.
 - 5. PROVIDE 3KW INVERTER. MANUFACTURER: MEYERS POWER PRODUCTS, ILLUMINATOR SERIES OR APPROVED EQUIVALENT.
 - 6. LIGHTING CONTROL FOR MECHANICAL ATTIC. SEE DETAIL 1/E3.01.2.
 - 7. EXTERIOR COVE LIGHTING TO BE RECESSED IN THE SIGN NICHE. COORDINATE WITH ARCHITECT FOR EXACT LOCATION AND MOUNTING REQUIREMENTS.

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PROJECT TITLE

**CONTRA COSTA
CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION &
RENOVATION**

1690 Watermill Rd.
San Ramon, CA 94582

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ISSUE TITLE

INCREMENT 2

ISSUE DATE 08/22/2023

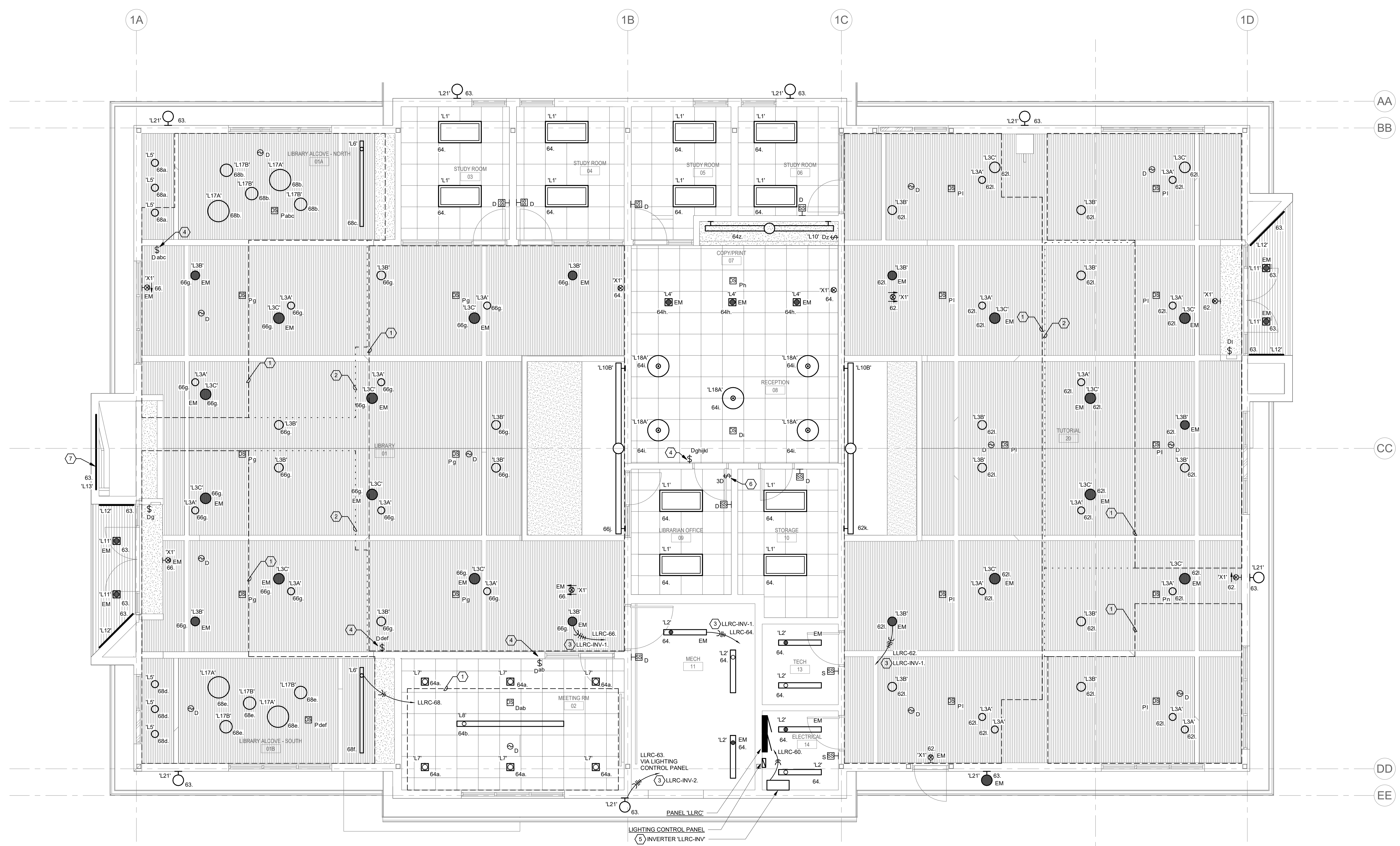
NOLL & TAM JOB NUMBER 21630

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
| | | |

SHEET TITLE
**LIBRARY LEARNING
RESOURCE CENTER
FLOOR PLAN -
LIGHTING**

SHEET NUMBER

E2.41.2



1 LIBRARY LEARNING RESOURCE CENTER - LIGHTING

0' 2' 4' 8'
1/4" = 1'-0"

GENERAL SHEET NOTES

- A. ALL LUMINAIRES AND LIGHTING CONTROLS DENOTED WITH AN (X) TO BE DISCONNECTED AND REMOVED. TERMINATE EXISTING CIRCUIT AND ASSOCIATED WIRING UP TO CEILING JUNCTION BOX FOR REUSE.

SHEET KEYNOTES

- 1. LUMINAIRES AND LIGHTING CONTROLS IN ROOM EXISTING TO REMAIN.
- 2. EXISTING LUMINAIRE MOUNTED TO HIGH CEILING ABOVE ROOMS TO BE DEMOLISHED.

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ISSUE TITLE

INCREMENT 2

ISSUE DATE **08/22/2023**

NOLL & TAM JOB NUMBER **21630**

REVISIONS

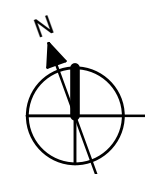
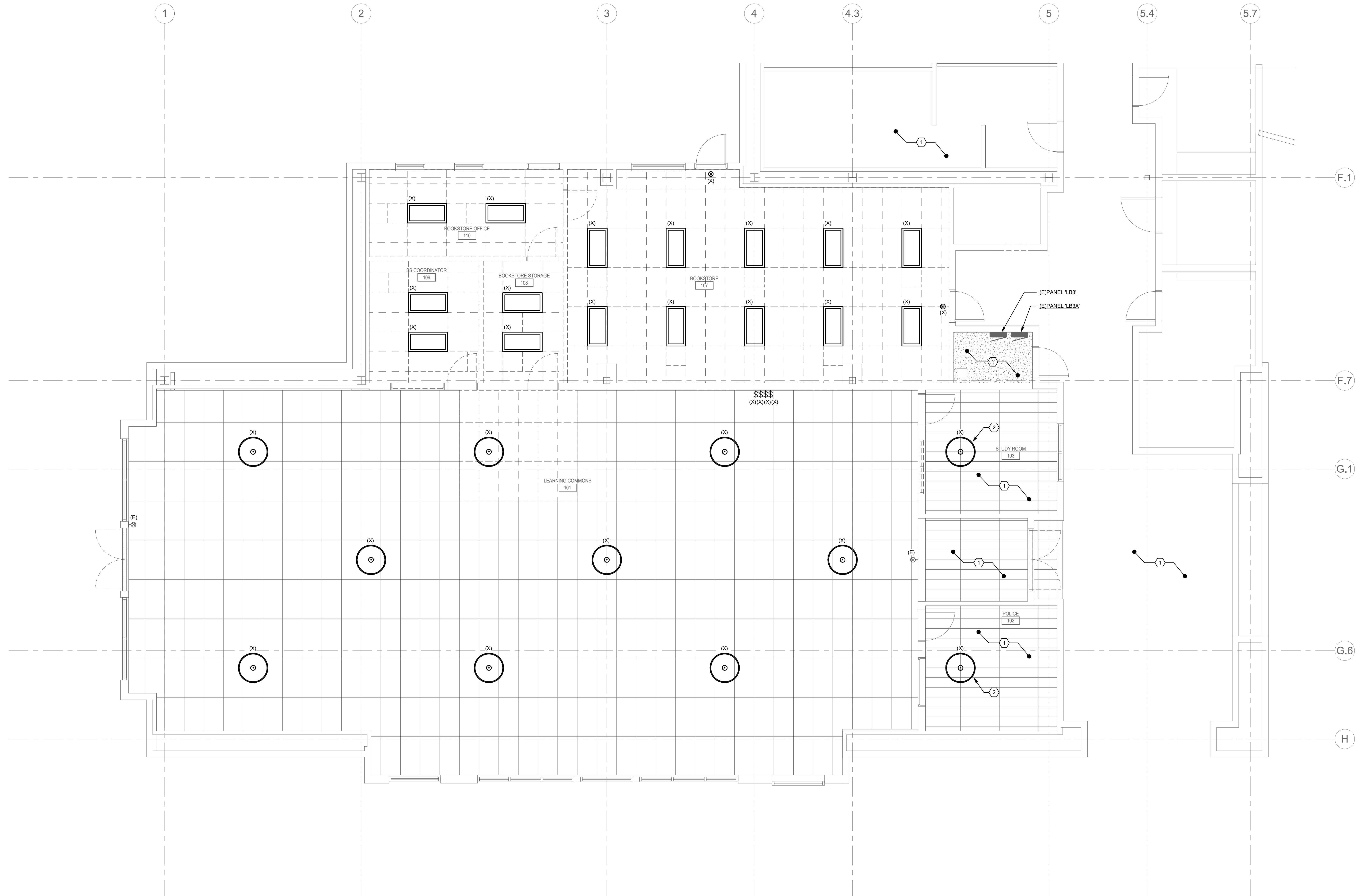
| NO. | DATE | DESCRIPTION |
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| | | |

SHEET TITLE

**DEMO - 1ST FLOOR -
WEST - LEARNING
COMMONS - LIGHTING**

SHEET NUMBER

E2.48.2



1 DEMO - 1ST FLOOR - WEST - LEARNING COMMONS - LIGHTING

0" 2" 4" 8"
1/4" = 1'-0"

GENERAL SHEET NOTES

- A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF LUMINAIRES AND LIGHTING CONTROLS WITH ARCHITECT PRIOR TO INSTALLATION. REFER TO DETAIL 6/63.21.0.
- SHEET KEYNOTES**
- 1. PRIMARY DAYLIT ZONE.
 - 2. SECONDARY DAYLIT ZONE.
 - 3. PROVIDE MULTI ZONE LIGHTING CONTROL IN SINGLE GANG BOX.
 - 4. PROVIDE RELAY UL924 FOR ALL SWITCHED EMERGENCY LUMINAIRES AS REQUIRED. PROVIDE ALL NECESSARY DEVICES, CONDUITS AND WIRES REQUIRED FOR A COMPLETE INSTALLATION. CONNECT EMERGENCY POWER TO INVERTER CIRCUIT AS INDICATED.
 - 5. PROVIDE 1 SKW INVERTER WALL MOUNTED ABOVE CULINARY OFFICE CEILING. MANUFACTURER: MEYERS POWER PRODUCTS. ILLUMINATOR SERIES CM OR APPROVED EQUIVALENT.

NOLL & TAM
ARCHITECTS

729 Heinz Avenue
Berkeley, CA 94710
tel 510.542.2200
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ARCHITECTS SEAL

PROJECT 2016-0538

CONTACT
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THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE DESIGN PROFESSIONAL HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERROR OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

PROJECT TITLE

**CONTRA COSTA
CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION &
RENOVATION**

1690 Watermill Rd.
San Ramon, CA 94582

RECORD SET:

THESE DRAWINGS HAVE BEEN PREPARED FROM ADDENDUMS, CCD'S, ASIS AND SELECT RFI'S OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM. ONLY A SELECT FEW AS-BUILTS WERE SUBMITTED.

ISSUE TITLE

INCREMENT 2

ISSUE DATE 08/22/2023

NOLL & TAM JOB NUMBER 21630

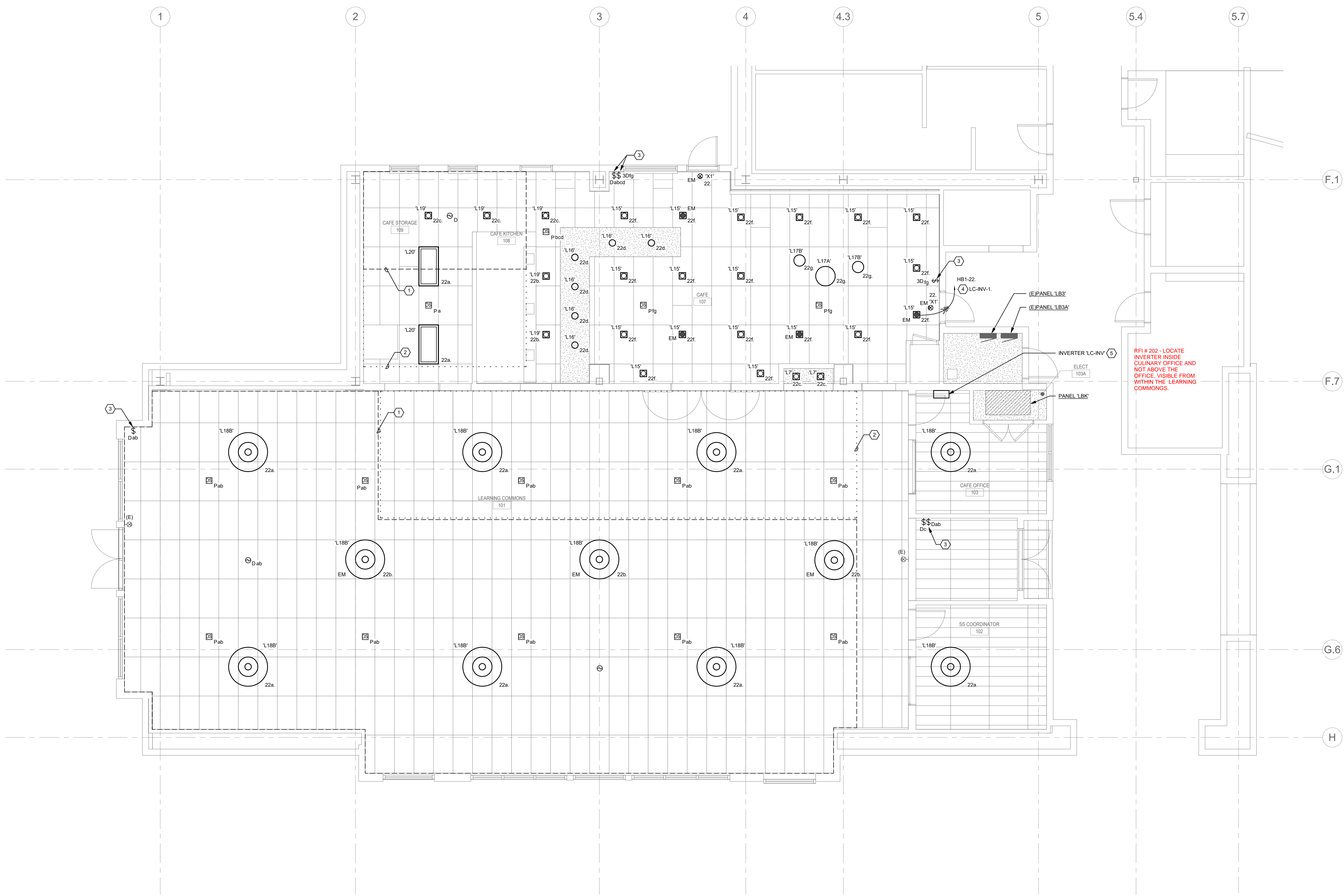
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|-----|------|-------------|
| | | |

SHEET TITLE

**NEW - 1ST FLOOR -
WEST - LEARNING
COMMONS - LIGHTING**

SHEET NUMBER

E2.49.2



RFI # 202 - LOCATE
INVERTER INSIDE
CULINARY OFFICE AND
NOT ABOVE THE
OFFICE, VISIBLE FROM
WITHIN THE LEARNING
COMMONS.

1 NEW - 1ST FLOOR - WEST - LEARNING COMMONS - LIGHTING

0' 2' 4' 8'
1/4" = 1'-0"

GENERAL SHEET NOTES

- A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF LUMINAIRES, LIGHTING CONTROLS, RECEPTACLES, AND ELECTRICAL DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.
- B. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS OF SITE LIGHTING WITH LANDSCAPE ARCHITECTS PRIOR TO INSTALLATION.
- C. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS OF HVAC UNITS WITH DIVISION 23 PRIOR TO INSTALLATION.

SHEET KEYNOTES

- 1. EXISTING UNDERGROUND SITE LIGHTING FEEDERS TO BE DISCONNECTED AND REMOVED. FIELD VERIFY CONDUIT AND WIRE SIZES FOR INSTALLATION OF NEW FEEDERS PER SHEET KEYNOTE 2.
- 2. PROVIDE NEW FEEDERS WITH SIZES AND QUANTITIES EQUAL TO THE DEMOLISHED FEEDERS PER KEYNOTE 1. CONNECT COMPLETE AS REQUIRED TO PLACE SITE LIGHTING BACK INTO SERVICE.
- 3. PROVIDE EXTERIOR ASTRONOMICAL TIMECLOCK FOR CONTROL OF LUMINAIRE.
- 4. CONNECT NEW LUMINAIRE AND LIGHTING CONTROL TO NEARBY EXISTING LIGHTING CIRCUIT. CONNECT COMPLETE AS REQUIRED TO PLACE INTO SERVICE.
- 5. INTERCEPT AND EXTEND NEARBY EXISTING RECEPTACLE CIRCUIT LB4-26 COMPLETE AS REQUIRED TO PLACE INTO SERVICE.

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ISSUE TITLE

INCREMENT 2

ISSUE DATE 08/22/2023

NOLL & TAM JOB NUMBER 21630

REVISIONS

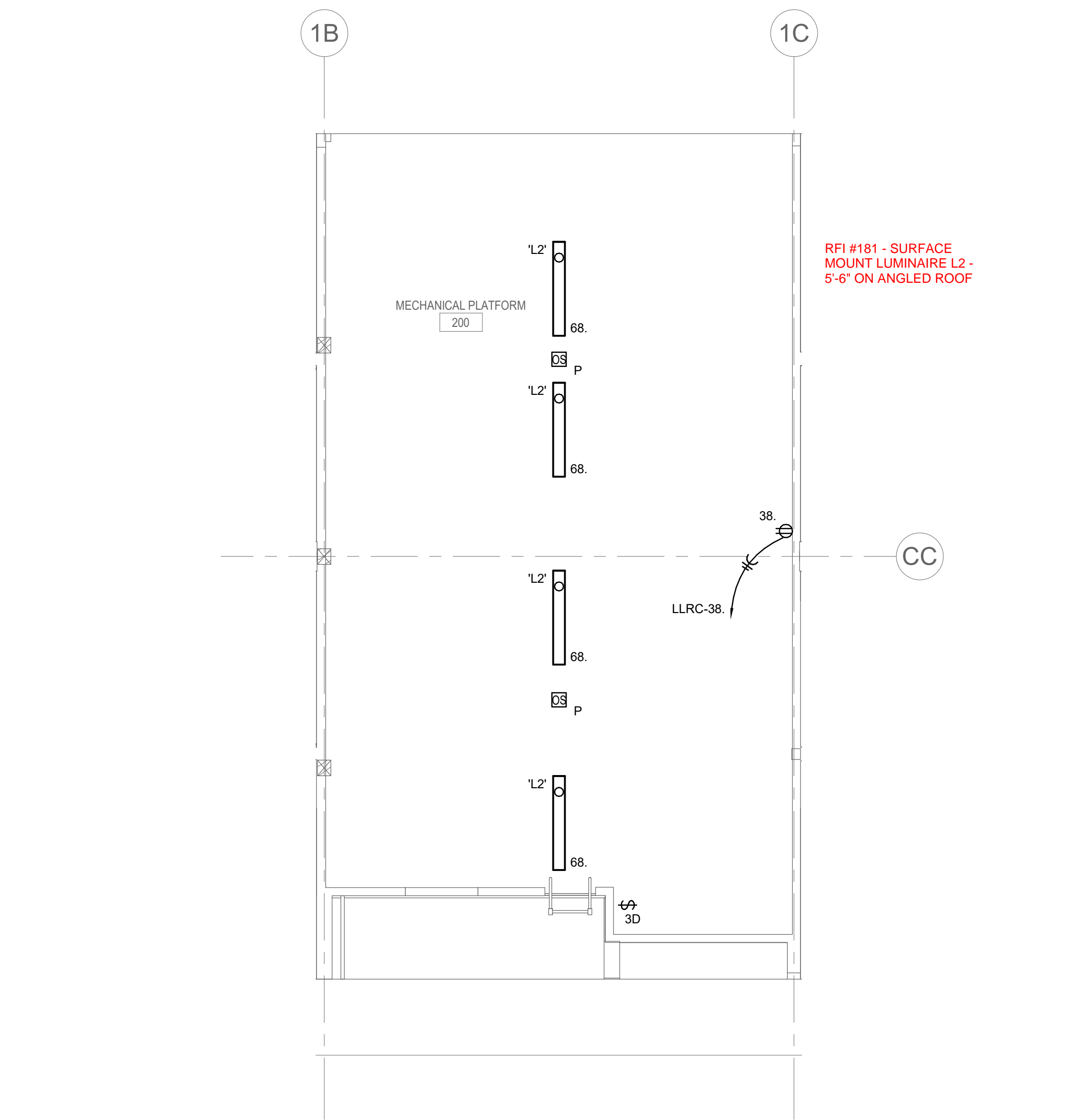
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SHEET TITLE

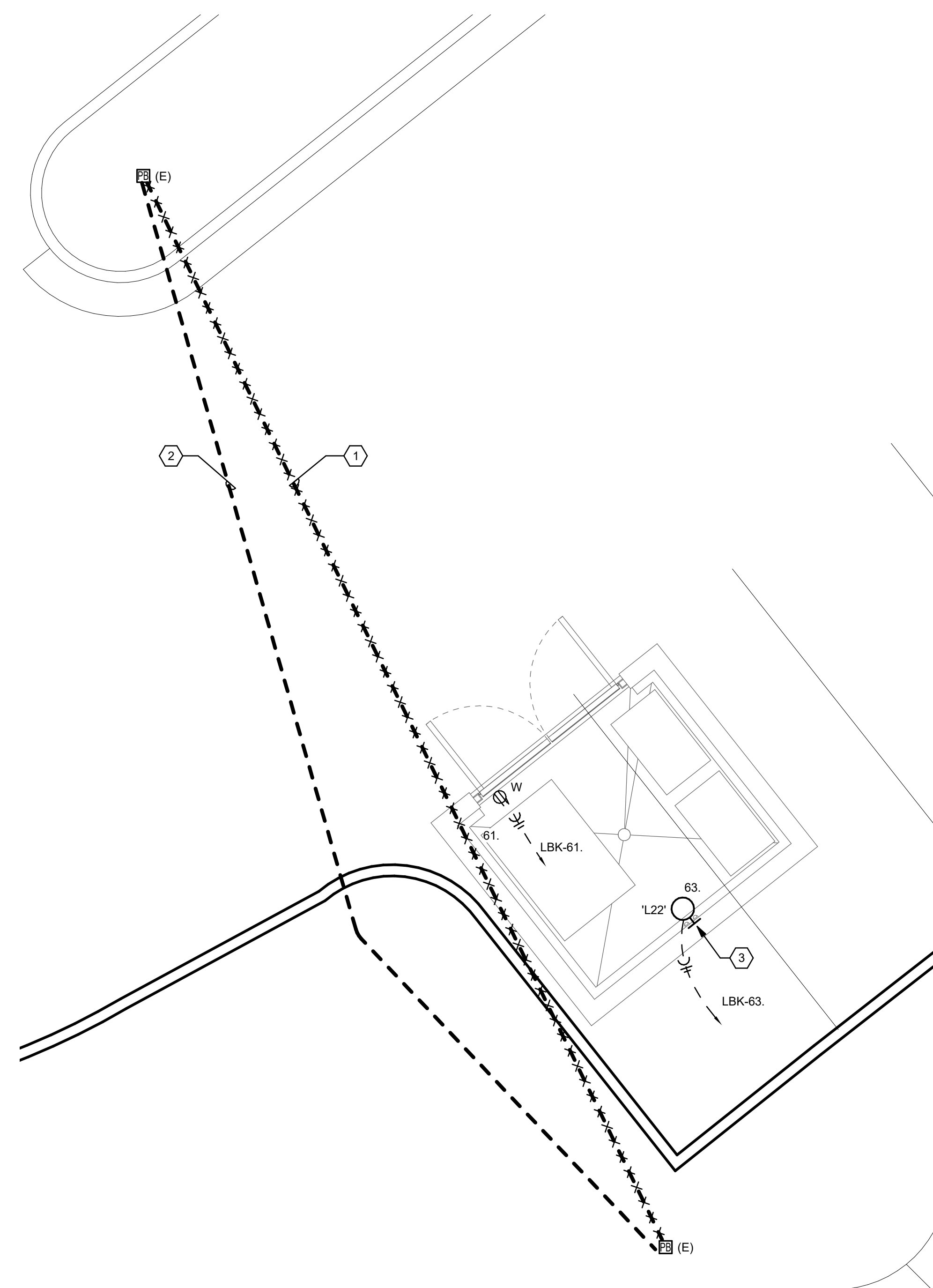
ENLARGED PLANS - ELECTRICAL

SHEET NUMBER

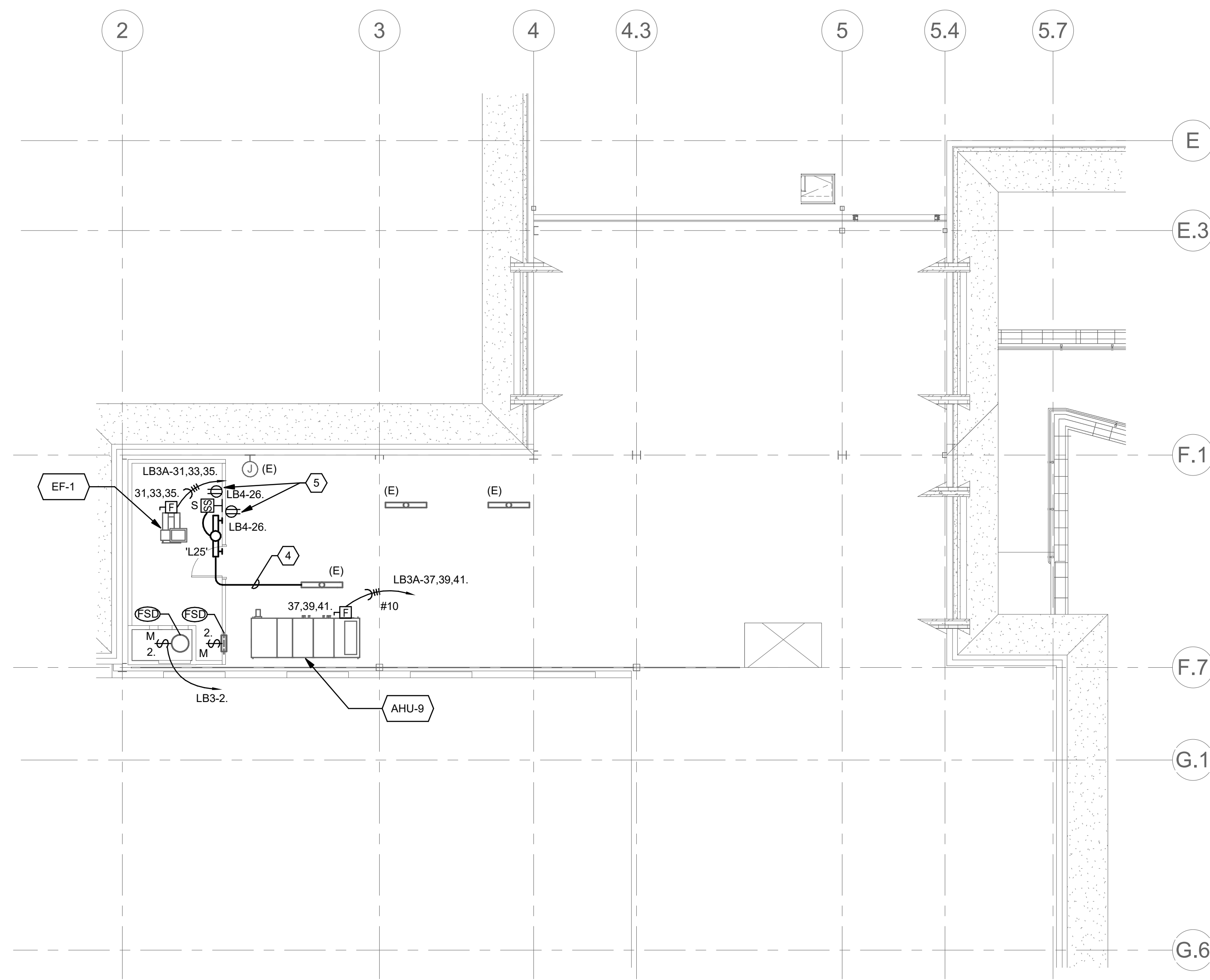
E3.01.2



1 LLRC MECHANICAL PLATFORM FLOOR PLAN - ELECTRICAL
Scale: 1/4" = 1'-0"



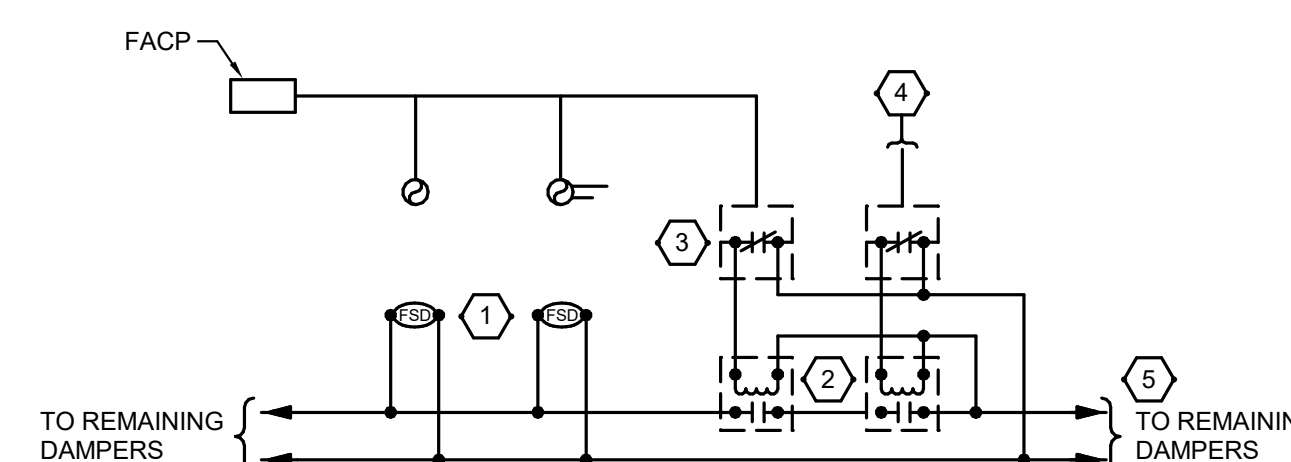
3 TRASH ENCLOSURE PLAN - ELECTRICAL
Scale: 1/4" = 1'-0"



2 PARTIAL ATTIC PLAN - WEST- ELECTRICAL
Scale: 1/8" = 1'-0"

DETAIL KEYNOTES

- 1. FIRE/SMOKE DAMPER OR SMOKE DAMPER ASSEMBLY. PROVIDE RELAY TO INTERRUPT FIRE/SMOKE DAMPER CIRCUIT UPON SIGNAL FROM FIRE ALARM SYSTEM OR BUILDING AUTOMATION SYSTEM. COORDINATE WITH HVAC CONTROLS FOR ANY REQUIRED DELAY TO PREVENT DAMAGE TO DUCTWORK.
- 2. FIRE ALARM ADDRESSABLE RELAY. PROGRAM TO OPEN CIRCUIT AND CLOSE DAMPERS UPON ACTIVATION OF SMOKE DETECTION SYSTEM.
- 3. OUTPUT FROM BUILDING AUTOMATION SYSTEM TO CONTROL RELAY.
- 4. PROVIDE SEPARATE CIRCUIT FOR EACH AIR HANDLING UNIT.



4 FIRE SMOKE DAMPER CONTROL DIAGRAM
NO SCALE

| (E) Panel 'HB1' | | | | | | | | | | | |
|--|------------------------|----------------|-------------|------|-----|------|-------------|----------------|------------------------|----------|--|
| 277480V, 3 Ph., 4 W.; 225A Bus with Main Lug Only Surface Mounted Panelboard | | | | | | | | | | | |
| Ckt. No. | Description / Location | Load (VA)/Type | C.B. A/Pole | Note | Ph. | Note | C.B. A/Pole | Load (VA)/Type | Description / Location | Ckt. No. | |
| 1 | (E) LOAD | | 20/1 | | A | | 20/1 | (E) LOAD | | 2 | |
| 3 | (E) LOAD | | 20/1 | | B | | 20/1 | (E) LOAD | | 4 | |
| 5 | (E) LOAD - INCREMENT 1 | 487 L | 20/1 | | C | | 20/1 | (E) LOAD | | 6 | |
| 7 | (E) LOAD - INCREMENT 1 | 902 L | 20/1 | | A | | 20/1 | (E) SPACE | | 8 | |
| 9 | (E) LOAD - INCREMENT 1 | 897 L | 20/1 | | B | | 20/1 | (E) SPACE | | 10 | |
| 11 | (E) LOAD | | 20/1 | | C | | 20/1 | (E) SPACE | | 12 | |
| 13 | (E) LOAD | | 20/1 | | A | | 20/1 | (E) SPACE | | 14 | |
| 15 | (E) LOAD | | 20/1 | | B | | 20/1 | (E) SPACE | | 16 | |
| 17 | (E) SPACE | | | | | | | (E) SPACE | | 18 | |
| 19 | (E) SPACE | | | | | | | (E) SPACE | | 20 | |
| 21 | (E) SPACE | | | | | | | (E) SPACE | | 22 | |
| 23 | (E) SPACE | | | | | | | (E) SPARE | | 24 | |
| 25 | (E) SPACE | | | | | | | (E) SPARE | | 26 | |
| 27 | (E) SPACE | | | | | | | (E) SPARE | | 28 | |
| 29 | (E) SPACE | | | | | | | (E) SPARE | | 30 | |
| 31 | (E) SPACE | | | | | | | (E) SPARE | | 32 | |
| 33 | (E) SPACE | | | | | | | (E) SPARE | | 34 | |
| 35 | (E) SPACE | | | | | | | (E) SPACE | | 36 | |
| 37 | (E) SPACE | | | | | | | (E) SPARE | | 38 | |
| 39 | (E) SPACE | | | | | | | (E) SPARE | | 40 | |
| 41 | (E) SPACE | | | | | | | (E) SPARE | | 42 | |

Total Connected Load: Ph. A 902 VA 3 Amps Panel Connected Load: 4.9 KVA 5.9 Amps
 Total Connected Load: Ph. B 3,550 VA 13 Amps Sub-Fed Connected Load: 0.0 KVA 0.0 Amps
 Total Connected Load: Ph. C 487 VA 2 Amps Total Demand Load: 6.2 KVA 7.4 Amps

Notes:
 1. PROVIDE NEW BREAKER TO MATCH EXISTING IN MANUFACTURER AND AIC RATINGS.

| (E) Panel 'LB3' | | | | | | | | | | | |
|---|------------------------|----------------|-------------|------|-----|------|-------------|----------------|------------------------|----------|--|
| 120/208V, 3 Ph., 4 W.; 225A Bus with Main Lug Only Surface Mounted Panelboard | | | | | | | | | | | |
| Ckt. No. | Description / Location | Load (VA)/Type | C.B. A/Pole | Note | Ph. | Note | C.B. A/Pole | Load (VA)/Type | Description / Location | Ckt. No. | |
| 1 | (E) LOAD | | 20/1 | | A | | 20/1 | 1,080 R | RECEPTACLES RM 101 | 2 | |
| 3 | (E) LOAD | | 20/1 | | B | | 20/1 | 500 G | FIRE SMOKE DAMPERS | 4 | |
| 5 | (E) LOAD | | 20/1 | | C | | 20/1 | | | 6 | |
| 7 | (E) LOAD | | 20/1 | | A | | 20/1 | | | 8 | |
| 9 | (E) LOAD | | 20/1 | | B | | 20/1 | | | 10 | |
| 11 | (E) LOAD | | 20/1 | | C | | 20/1 | | | 12 | |
| 13 | (E) LOAD | | 20/1 | | A | | 20/1 | | | 14 | |
| 15 | (E) LOAD | | 20/1 | | B | | 20/1 | | | 16 | |
| 17 | (E) LOAD | | 20/1 | | C | | 20/1 | | | 18 | |
| 19 | (E) LOAD | | 20/1 | | A | | 60/3 | | | 20 | |
| 21 | (E) LOAD | | 20/1 | | B | | - | | | 22 | |
| 23 | (E) LOAD | | 20/1 | | C | | - | | | 24 | |
| 25 | RECEPTACLES RM 101 | 1,080 R | 20/1 | | A | | 20/1 | | | 26 | |
| 27 | RECEPTACLES RM 101 | 1,080 R | 20/1 | | B | | 20/1 | | | 28 | |
| 29 | RECEPTACLES RM 101 | 1,080 R | 20/1 | | C | | 20/1 | | | 30 | |
| 31 | (E) LOAD | | 20/1 | | A | | 20/1 | | | 32 | |
| 33 | (E) LOAD | | 20/1 | | B | | 20/1 | | | 34 | |
| 35 | (E) LOAD | | 20/1 | | C | | 20/1 | | | 36 | |
| 37 | (E) PANEL 'LB3A' | | 60/3 | | A | | | | | 38 | |
| 39 | - | | - | | B | | | | | 40 | |
| 41 | - | | - | | C | | | | | 42 | |

Total Connected Load: Ph. A 2,160 VA 18 Amps Panel Connected Load: 4.8 KVA 13.4 Amps
 Total Connected Load: Ph. B 1,590 VA 13 Amps Sub-Fed Connected Load: 0.0 KVA 0.0 Amps
 Total Connected Load: Ph. C 1,080 VA 9 Amps Total Demand Load: 4.8 KVA 13.4 Amps

Notes:
 1. PROVIDE NEW BREAKER TO MATCH EXISTING IN MANUFACTURER AND AIC RATINGS.

| (E) Panel 'LB3A' | | | | | | | | | | | |
|---|------------------------|----------------|-------------|------|-----|------|-------------|----------------|------------------------|-----------------|----|
| 120/208V, 3 Ph., 4 W.; 125A Bus with Main Lug Only Surface Mounted Panelboard | | | | | | | | | | | |
| Ckt. No. | Description / Location | Load (VA)/Type | C.B. A/Pole | Note | Ph. | Note | C.B. A/Pole | Load (VA)/Type | Description / Location | Ckt. No. | |
| 1 | (E) LOAD | | 20/1 | | A | | 20/2 | | (E) LOAD | 2 | |
| 3 | SPARE | | 20/1 | | B | | - | | (E) LOAD | 4 | |
| 5 | SPARE | | 20/1 | | C | | 20/2 | | (E) LOAD | 6 | |
| 7 | (E) LOAD | | 20/1 | | A | | 20/1 | | (E) LOAD | 8 | |
| 9 | (E) LOAD | | 20/2 | | B | | 20/2 | | (E) LOAD | 10 | |
| 11 | (E) LOAD | | - | | C | | - | | (E) LOAD | 12 | |
| 13 | (E) LOAD | | 20/2 | | A | | 20/1 | | (E) LOAD | 14 | |
| 15 | (E) LOAD | | 20/1 | | B | | 20/2 | | (E) LOAD | 16 | |
| 17 | (E) LOAD | | 20/1 | | C | | - | | (E) LOAD | 18 | |
| 19 | (E) LOAD | | 20/2 | | A | | 20/1 | | (E) LOAD | 20 | |
| 21 | (E) LOAD | | - | | B | | - | | (E) LOAD | 22 | |
| 23 | (E) LOAD | | 20/1 | | C | | 20/1 | | (E) LOAD | 24 | |
| 25 | (E) SPACE | | | | A | | 1 | 20/1 | 1,600 R | VENDING MACHINE | 26 |
| 27 | (E) SPACE | | | | B | | 1 | 20/1 | 1,600 R | VENDING MACHINE | 28 |
| 29 | (E) SPACE | | | | C | | 1 | 20/1 | 1,600 R | VENDING MACHINE | 30 |
| 31 | EF-1 | 1,273 M | 20/3 | 1 | A | | 1 | 20/1 | 1,600 R | VENDING MACHINE | 32 |
| 33 | - | 1,273 M | - | - | B | | 1 | 20/1 | 1,600 R | MICROWAVE | 34 |
| 35 | - | 1,273 M | - | - | C | | 1 | 20/1 | 1,600 R | MICROWAVE | 36 |
| 37 | MAU-1 | 2,356 M | 30/3 | 1 | A | | | | (E) SPACE | 38 | |
| 39 | - | 2,356 M | - | - | B | | | | (E) SPACE | 40 | |
| 41 | - | 2,356 M | - | - | C | | | | (E) SPACE | 42 | |

Total Connected Load: Ph. A 6,829 VA 57 Amps Panel Connected Load: 20.5 KVA 56.9 Amps
 Total Connected Load: Ph. B 6,829 VA 57 Amps Sub-Fed Connected Load: 0.0 KVA 0.0 Amps
 Total Connected Load: Ph. C 6,829 VA 57 Amps Total Demand Load: 22.3 KVA 61.8 Amps

Notes:
 1. PROVIDE NEW BREAKER TO MATCH EXISTING IN MANUFACTURER AND AIC RATINGS.

| LC-INV | | | | | | | | | | | | |
|--------------------------|------------------------|----------------|-------------|------|-----|------|--------|--|--|--|--|--|
| 277V, 1Ph., 2 W.; 1.5KVA | | | | | | | | | | | | |
| Ckt. No. | Description / Location | Load (VA)/Type | C.B. A/Pole | Note | Ph. | Note | | | | | | |
| 1 | EM LIGHTING CAFE & LC | 675 L | 20/1 | | A | | Notes: | | | | | |
| 2 | | | | | B | | 1. | | | | | |
| 3 | | | | | C | | 2. | | | | | |
| 4 | | | | | A | | 3. | | | | | |

Total Connected Load: Ph. A 675 VA 6 Amps Panel Connected Load: 0.7 KVA 1.9 Amps
 Total Connected Load: Ph. B 0 VA 0 Amps Sub-Fed Connected Load: 0.0 KVA 0.0 Amps
 Total Connected Load: Ph. C 0 VA 0 Amps Total Demand Load: 0.8 KVA 2.3 Amps

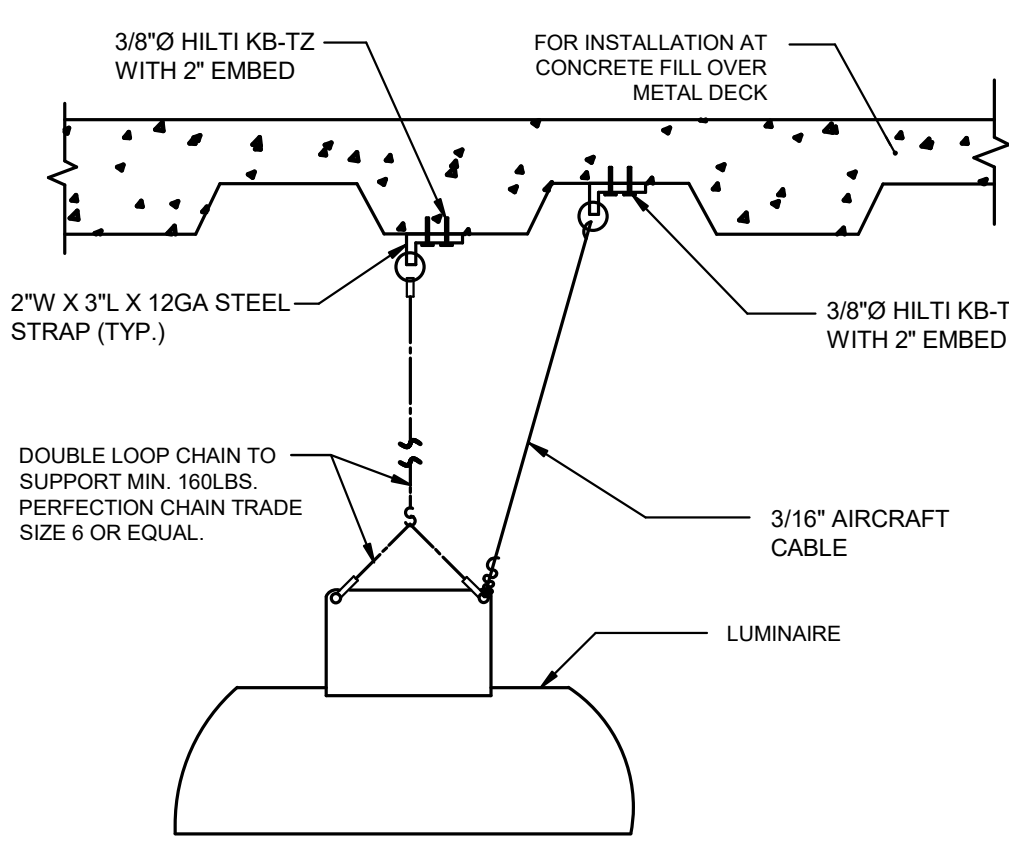
Notes:
 1. LABEL PANEL SPACES "FOR FUTURE SOLAR ELECTRIC"

| Panel 'LBK' | | | | | | | | | | | |
|---|--------------------------------|----------------|-------------|------|-----|------|-------------|----------------|--------------------------------|----------|--|
| 120/208V, 3 Ph., 4 W.; 400A Bus with Main Lug Only Surface Mounted Panelboard with 14KAIC minimum | | | | | | | | | | | |
| Ckt. No. | Description / Location | Load (VA)/Type | C.B. A/Pole | Note | Ph. | Note | C.B. A/Pole | Load (VA)/Type | Description / Location | Ckt. No. | |
| 1 | FREEZER | 816 K | 20/1 | | A | | 20/1 | 300 K | STORAGE TANK PUMP/WATER FILTER | 2 | |
| 3 | REFRIGERATOR | 576 K | 20/1 | | B | | 20/1 | 1,800 K | PREP TABLE | 4 | |
| 5 | REFRIGERATOR | 1,800 K | 20/1 | | C | | 20/1 | 1,800 K | PREP TABLE | 6 | |
| 7 | ICE MAKER | 1,464 K | 20/1 | | A | | 50/1 | 4,500 K | EXHAUST HOOD | 8 | |
| 9 | FIRE SUPPRESSION SYSTEM | 1,800 G | 20/1 | | B | | 50/1 | 4,500 K | EXHAUST HOOD | 10 | |
| 11 | SLICER WITH STAND | 672 K | 20/1 | | C | | 50/1 | 4,500 K | EXHAUST HOOD | 12 | |
| 13 | GRIDDLE, REFRIGERATOR, RANGE | 1,260 K | 20/1 | | A | | 20/1 | 1,440 K | HEAT LAMPS | 14 | |
| 15 | OVEN STEAMER | 996 K | 20/1 | | B | | 20/1 | 1,440 K | HEAT LAMPS | 16 | |
| 17 | HEATED SHELF | 996 K | 20/1 | | C | | 20/1 | 1,800 K | SERVING COUNTER | 18 | |
| 19 | HOT/COLD WELLS | 1,102 K | 20/2 | | A | | 20/1 | 1,800 K | SERVING COUNTER | 20 | |
| 21 | - | 1,102 K | - | - | B | | 20/1 | 1,800 K | SERVING COUNTER | 22 | |
| 23 | MOBILE WARMING CABINET | 1,320 K | 20/1 | | C | | 20/1 | 1,800 K | SERVING COUNTER | 24 | |
| 25 | STORAGE SHELVES | 500 K | 20/1 | | A | | 30/2 | 2,205 K | HOT WELLS | 26 | |
| 27 | GFCI CONVENIENCE OUTLET | 1,500 K | 20/2 | 1 | B | | - | 2,205 K | - | 28 | |
| 29 | - | 1,500 K | - | - | C | | 20/1 | 1,800 K | BEVERAGE SERVING COUNTER | 30 | |
| 31 | SELF-SERVICE BAKERY CASE | 300 K | 20/1 | | A | | 20/1 | 1,800 K | BEVERAGE SERVING COUNTER | 32 | |
| 33 | TOASTER | 1,800 K | 20/1 | | B | | 20/1 | 1,800 K | BEVERAGE SERVING COUNTER | 34 | |
| 35 | BEVERAGE COUNTER RECEPTACLE | 1,000 K | 20/1 | | C | | 20/1 | 540 K | BEVERAGE DISPENSER | 36 | |
| 37 | COFFEE MAKER | 3,588 K | 50/2 | | A | | 20/1 | 1,680 K | TEA BREWER/DISPENSER | 38 | |
| 39 | - | 3,588 K | - | - | B | | 20/1 | | SPARE | 40 | |
| 41 | AIR CURTAINS | 964 M | 20/1 | | C | | 20/1 | 840 K | BEVERAGE DISPENSER | 42 | |
| 43 | REFRIGERATED SELF-SERVICE CASE | 1,370 K | 20/1 | | A | | 20/1 | 1,320 K | ICE MAKER | 44 | |
| 45 | REFRIGERATED SELF-SERVICE CASE | 1,370 K | 20/1 | | B | | 20/1 | 1,680 K | SODA SYSTEM | 46 | |
| 47 | POS STATION | 1,800 R | 20/1 | | C | | 20/1 | 1,600 K | SERVING COUNTER | 48 | |
| 49 | POS STATION | 1,800 R | 20/1 | | A | | 20/1 | 1,600 K | SERVING COUNTER | 50 | |
| 51 | POS STATION | 1,800 R | 20/1 | | B | | 20/1 | 1,600 K | SERVING COUNTER | 52 | |
| 53 | POS STATION | 1,800 R | 20/1 | | C | | 20/1 | 1,600 K | SERVING COUNTER | 54 | |
| 55 | ICE CREAM CABINET & FREEZER | 300 K | 20/1 | | A | | 20/1 | 1,600 K | SERVING COUNTER | 56 | |
| 57 | REFRIGERATED SELF-SERVICE CASE | 1,800 K | 20/1 | | B | | 20/1 | 1,600 K | SERVING COUNTER | 58 | |
| 59 | CLOSET RECEPTACLE | 180 R | 20/1 | | A | | 20/1 | | FUTURE VENDING EQUIPMENT | 60 | |
| 61 | TRASH ENCLOSURE RECEPTACLE | 180 R | 20/1 | | A | | 20/1 | | FUTURE VENDING EQUIPMENT | 62 | |
| 63 | TRASH ENCLOSURE LUMINAIRE | 28 L | 20/1 | | B | | 20/1 | 1,200 K | FRYER | 64 | |
| 65 | SPARE | 20/1 | | | C | | 20/1 | 1,200 K | FRYER | 66 | |
| 67 | SPARE | 20/1 | | | A | | 20/1 | | SPARE | 68 | |
| 69 | SPARE | 20/1 | | | B | | 20/1 | | SPARE | 70 | |
| 71 | SPARE | 20/1 | | | C | | 20/1 | | SPARE | 72 | |
| 73 | SPACE | | | | A | | | | SPACE | 74 | |
| 75 | SPACE | | | | B | | | | SPACE | 76 | |
| 77 | SPACE | | | | C | | | | SPACE | 78 | |
| 79 | CLU-2 | 1,430 M | 30/2 | | A | | 20/1 | 600 WH | GW-11 | 80 | |
| 81 | - | 1,430 M | - | - | B | | 30/2 | 1,100 K | HEAT TRACE | 82 | |
| 83 | EF-2 | 864 M | 20/1 | | C | | - | 1,100 K | - | 84 | |

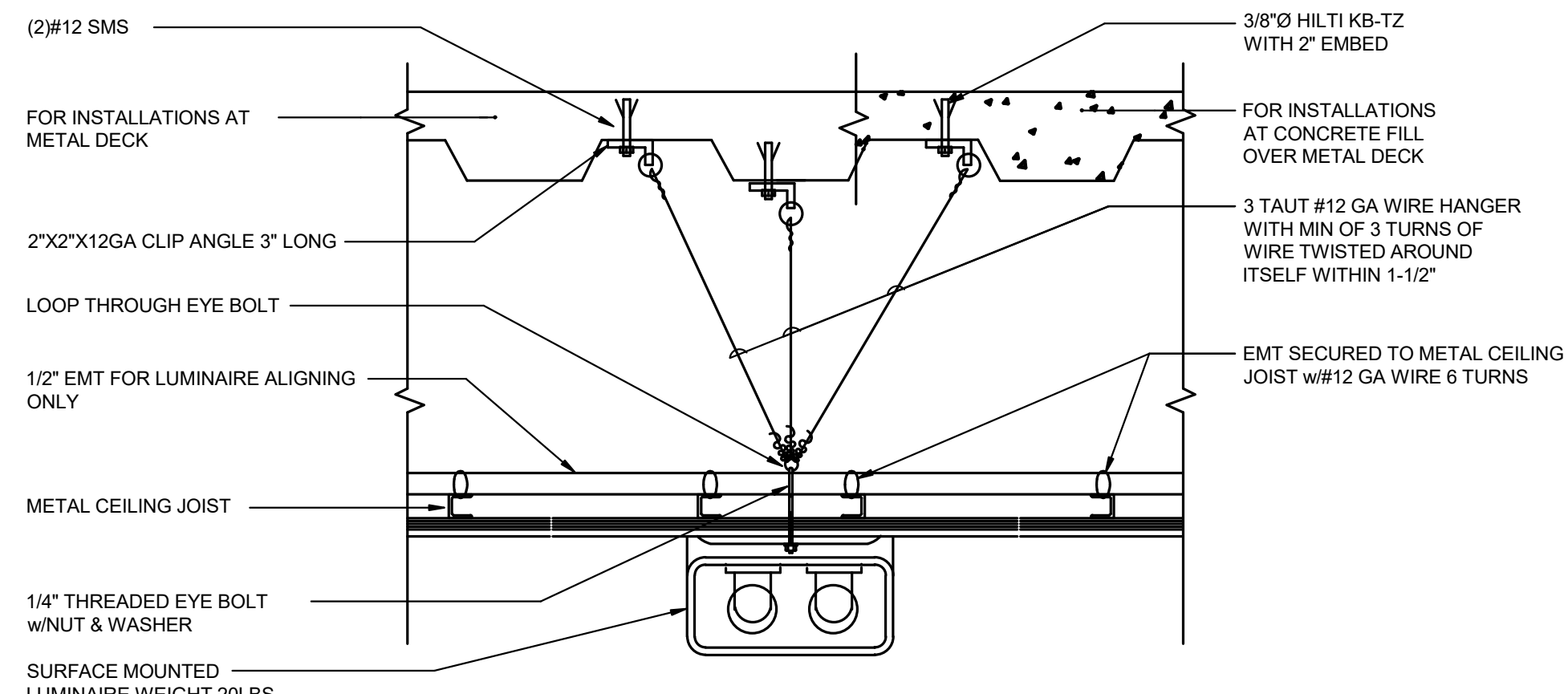
Total Connected Load: Ph. A 32,775 VA 273 Amps Panel Connected Load: 102.6 KVA 284.7 Amps
 Total Connected Load: Ph. B 38,515 VA 321 Amps Sub-Fed Connected Load: 0.0 KVA 0.0 Amps
 Total Connected Load: Ph. C 31,298 VA 260 Amps Total Demand Load: 72.6 KVA 201.6 Amps

Notes:
 1. PROVIDE GFCI BREAKER.

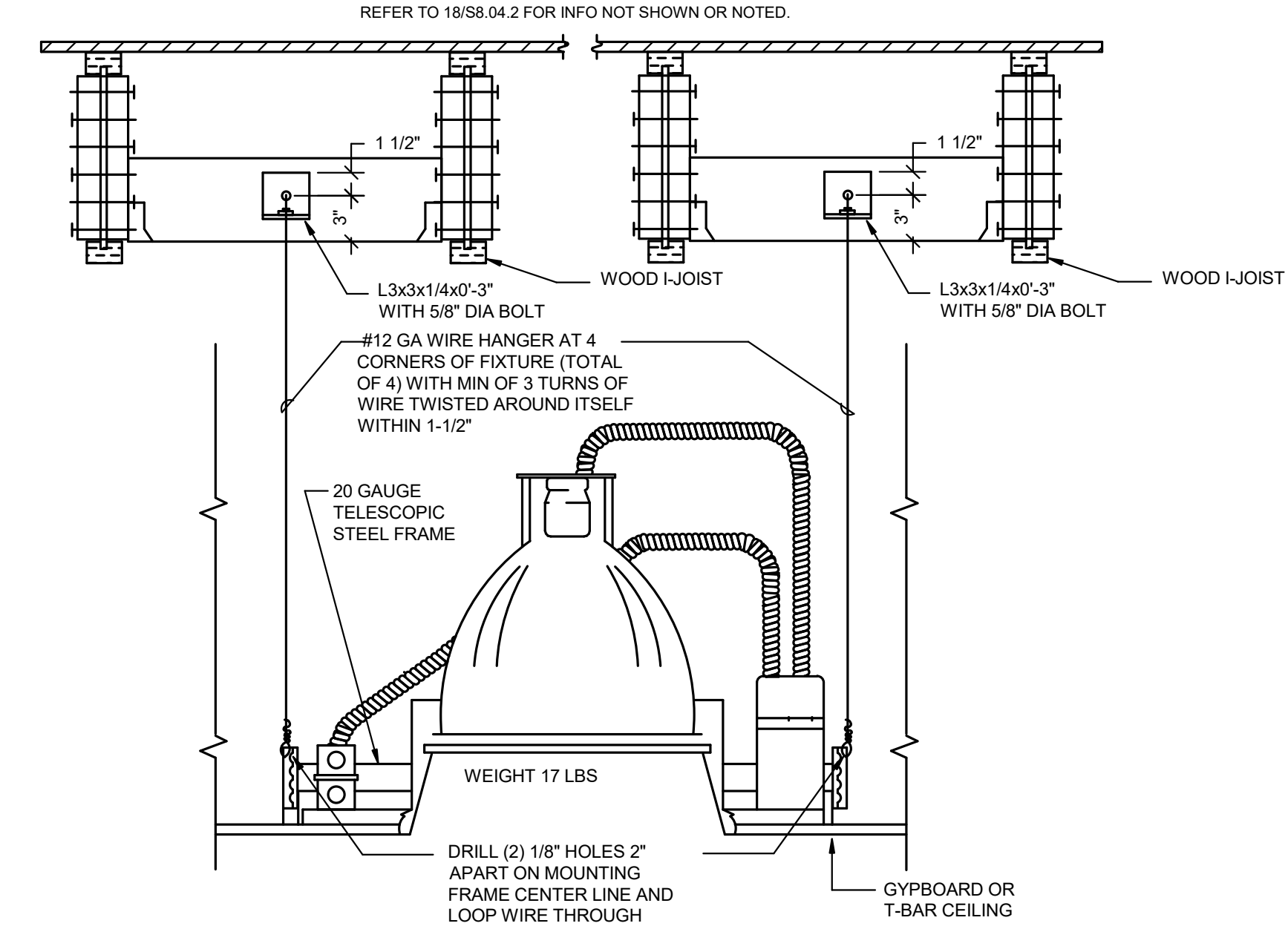
| Panel 'LLRC' Sec. 1 | | | | | | | | | | | |
|---|----------------------------|----------------|-------------|------|-----|------|-------------|----------------|------------------------|----------|--|
| 120/208V, 3 Ph., 4 W.; 225A Bus with 225A Main Circuit Breaker Surface Mounted Panelboard with 14KAIC minimum | | | | | | | | | | | |
| Ckt. No. | Description / Location | Load (VA)/Type | C.B. A/Pole | Note | Ph. | Note | C.B. A/Pole | Load (VA)/Type | Description / Location | Ckt. No. | |
| 1 | RECEPTACLES RM 01A | 900 R | 20/1 | | A | | 20/1 | 360 R | RECEPTACLES RM 01B | 2 | |
| 3 | RECEPTACLES RM 01A, 01 | 720 R | 20/1 | | B | | 20/1 | 540 R | RECEPTACLES RM 01B, 01 | 4 | |
| 5 | RECEPTACLES RM 02 | 720 R | 20/1 | | C | | 20/1 | 720 R | RECEPTACLES RM 01B | 6 | |
| 7 | RECEPTACLES RM 02 | 900 R | 20/1 | | A | | 20/1 | 1,080 R | RECEPTACLES RM 01 | 8 | |
| 9 | RECEPTACLES RM 03, 04 | 720 R | 20/1 | | B | | 20/1 | 1,080 R | RECEPTACLES RM 01 | 10 | |
| 11 | RECEPTACLES RM 05, 06 | 720 R | 20/1 | | C | | 20/1 | 1,080 R | RECEPTACLES RM 01 | 12 | |
| 13 | COPIER RM 07 | 1,000 G | 20/1 | | A | | 20/1 | 720 R | RECEPTACLES RM 20 | 14 | |
| 15 | PRINTER RM 07 | 1,000 G | 20/1 | | B | | 20/1 | 720 R | RECEPTACLES RM 20 | 16 | |
| 17 | RECEPTACLES RM 07 | 1,000 R | 20/1 | | C | | 20/1 | 720 R | RECEPTACLES RM 20 | 18 | |
| 19 | RECEPTACLES RM 20 | 720 R | 20/1 | | A | | 20/1 | 720 R | RECEPTACLES RM 20 | 20 | |
| 21 | RECEPTACLES RM 20 | 720 R | 20/1 | | B | | 20/1 | 720 R | RECEPTACLES RM 20 | 22 | |
| 23 | RECEPTACLES RM 20 | 720 R | 20/1 | | C | | 20/1 | 720 R | RECEPTACLES RM 20 | 24 | |
| 25 | RECEPTACLES RM 20 | 720 R | 20/1 | | A | | 20/1 | 720 R | RECEPTACLES RM 20 | 26 | |
| 27 | RECEPTACLES RM 08 | 720 R | 20/1 | | B | | 20/1 | 720 R | RECEPTACLES RM 20 | 28 | |
| 29 | PRINTER RM 08 | 1,000 G | 20/1 | | C | | 20/1 | 720 R | RECEPTACLES RM 20 | 30 | |
| 31 | RECEPTACLES RM 09 | 540 R | 20/1 | | A | | 20/1 | 720 R | RECEPTACLES RM 20 | 32 | |
| 33 | LAPTOP CHARGING CART RM 10 | 1,500 R | 20/1 | | B | | 20/1 | 360 R | RECEPTACLES RM 20 | 34 | |
| 35 | RECEPTACLES RM 11, 13, 14 | 1,500 G | 20/1 | | C | | 20/1 | 1,080 R | RECEPTACLES RM 20 | 36 | |
| 37 | IT RACK RECEPTACLE | 1,000 R | 20/1 | | A | | 20/1 | 360 R | RECEPTACLES RM 20 | 38 | |
| 39 | IT RACK RECEPTACLE | 1,000 R | 20/1 | | B | | 20/1 | | SPARE | 40 | |
| 41 | IT RACK RECEPTACLE | 1,000 R | 20/1 | | C | | 20/1</ | | | | |



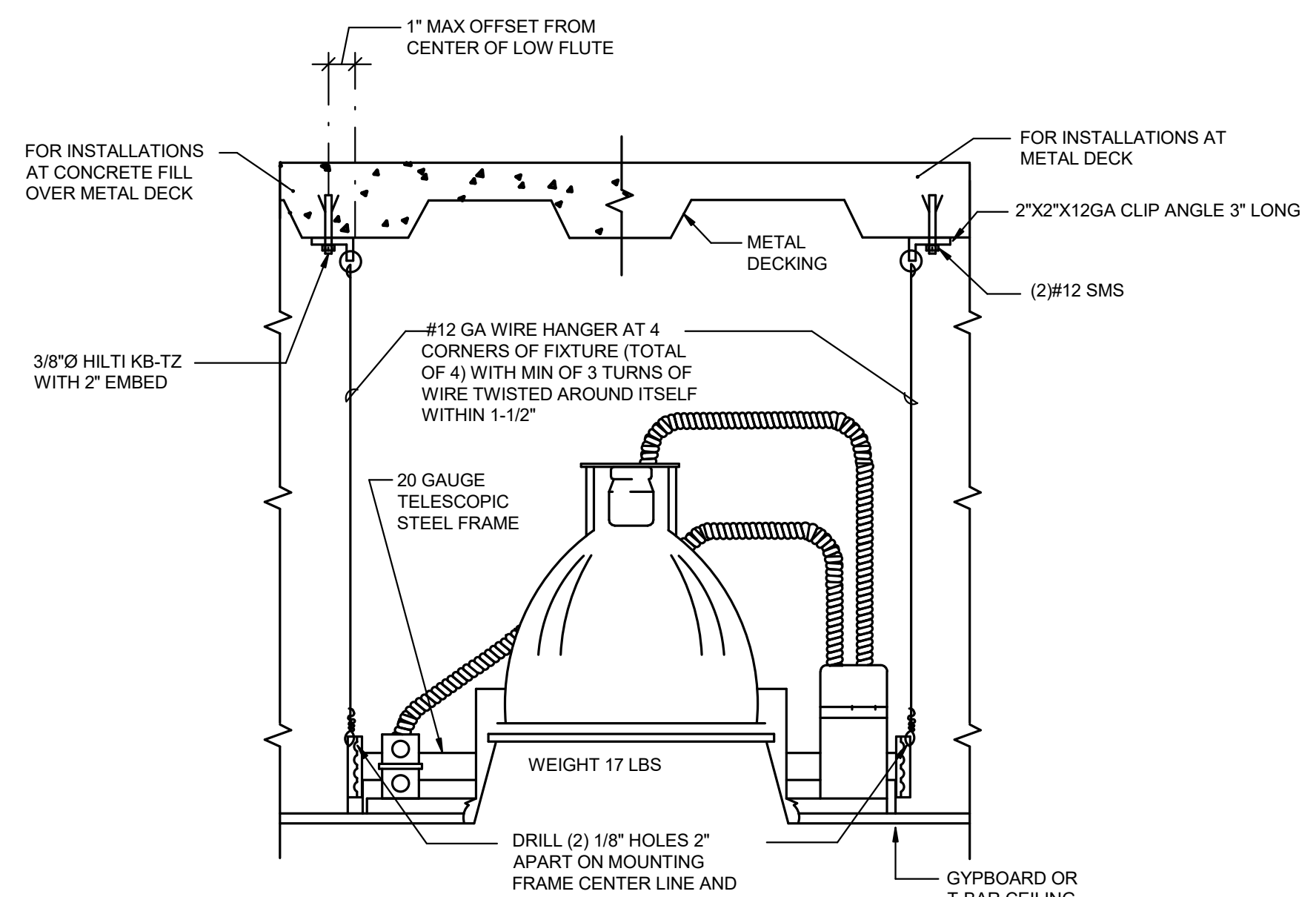
1 LUMINAIRE CHAIN SUPPORT



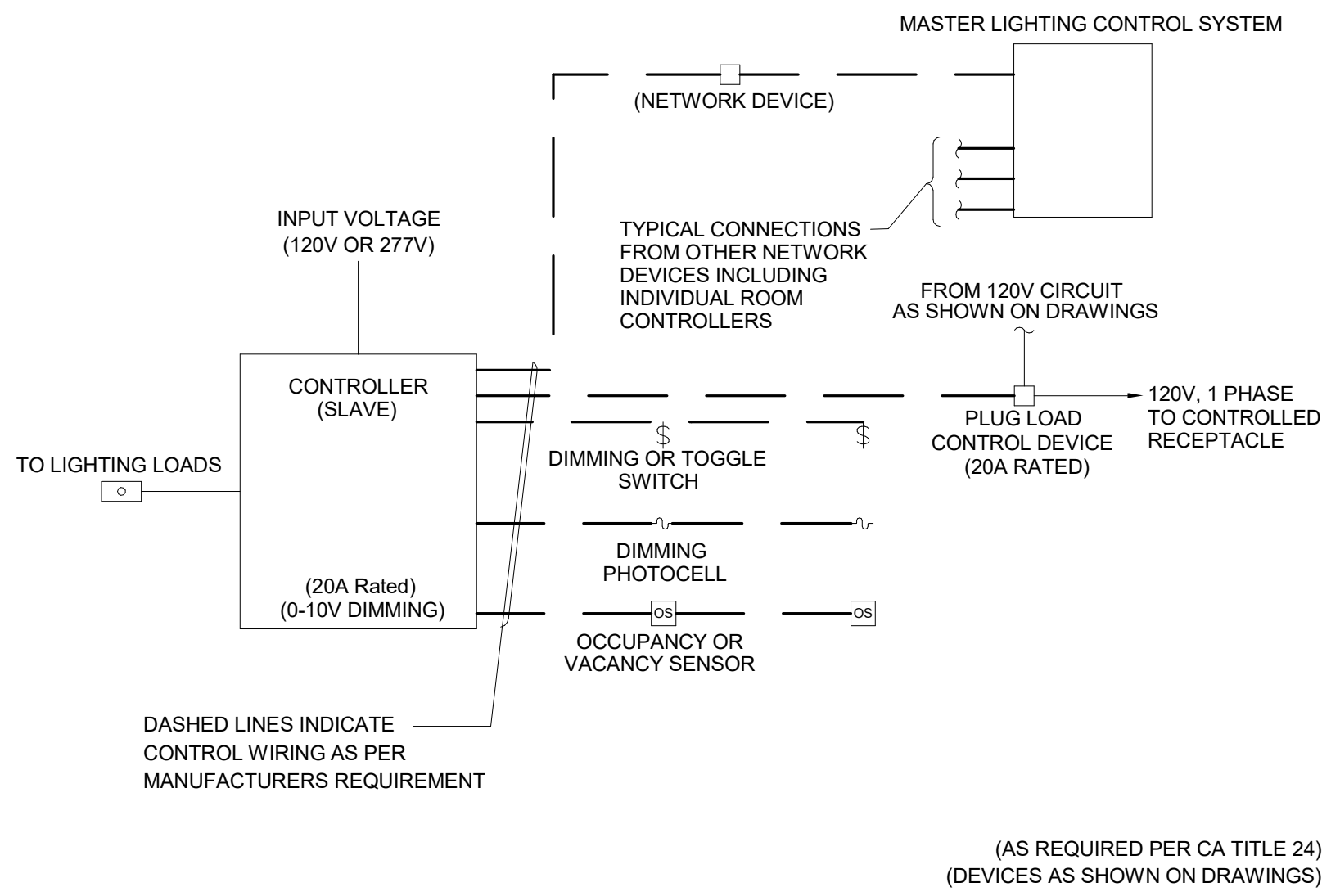
5 SURFACE MOUNTED LUMINAIRE MOUNTING METHOD



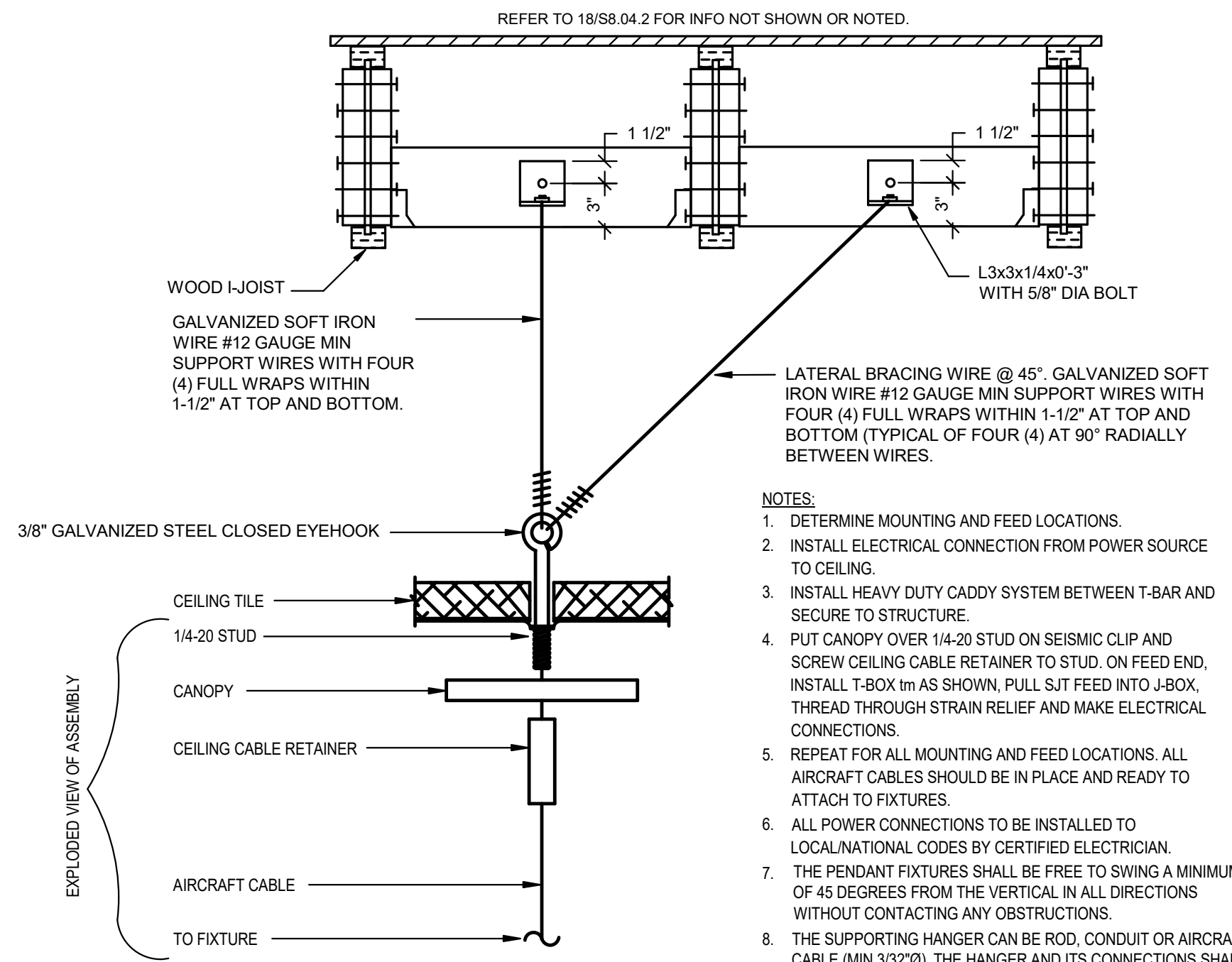
9 RECESSED DOWNLIGHT LUMINAIRE - WOOD I- JOISTS



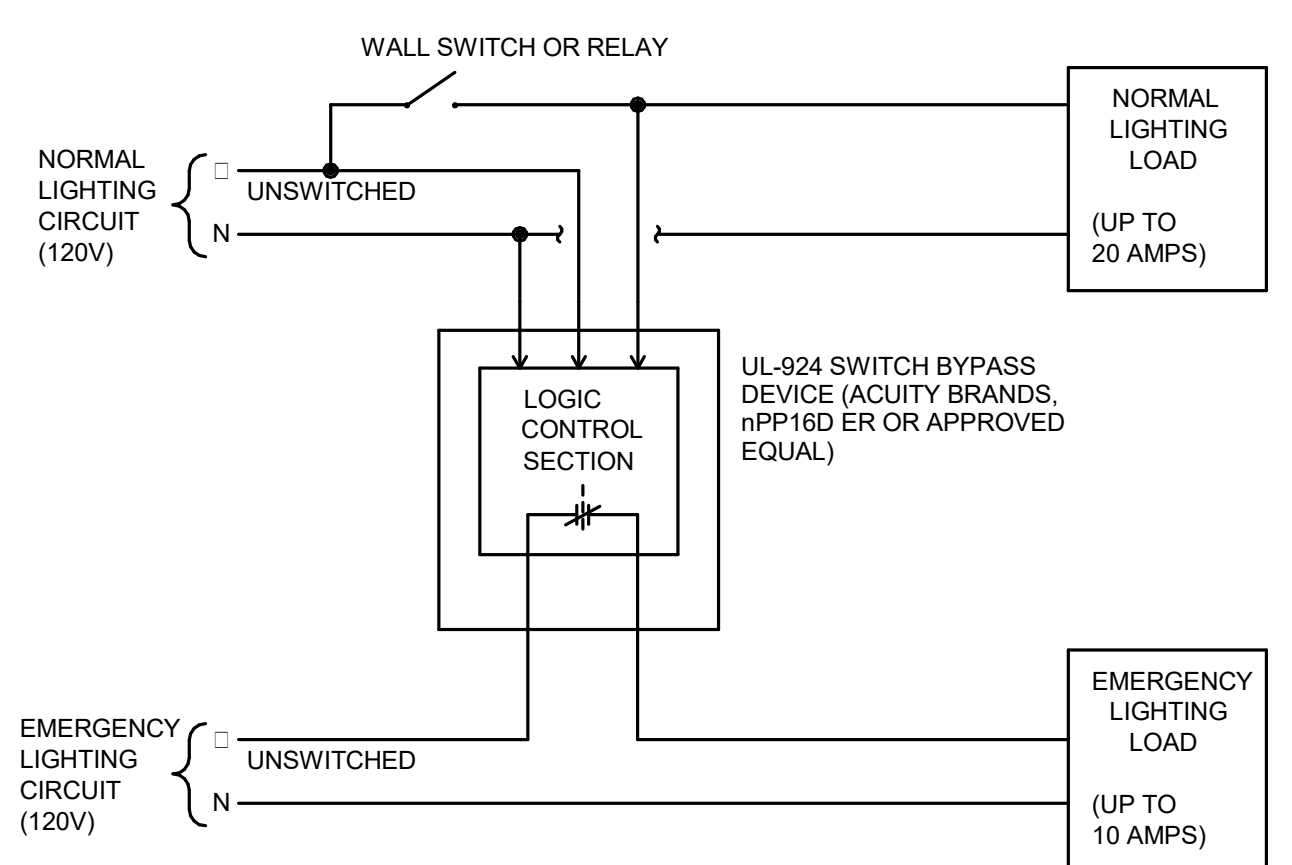
2 RECESSED DOWNLIGHT LUMINAIRE



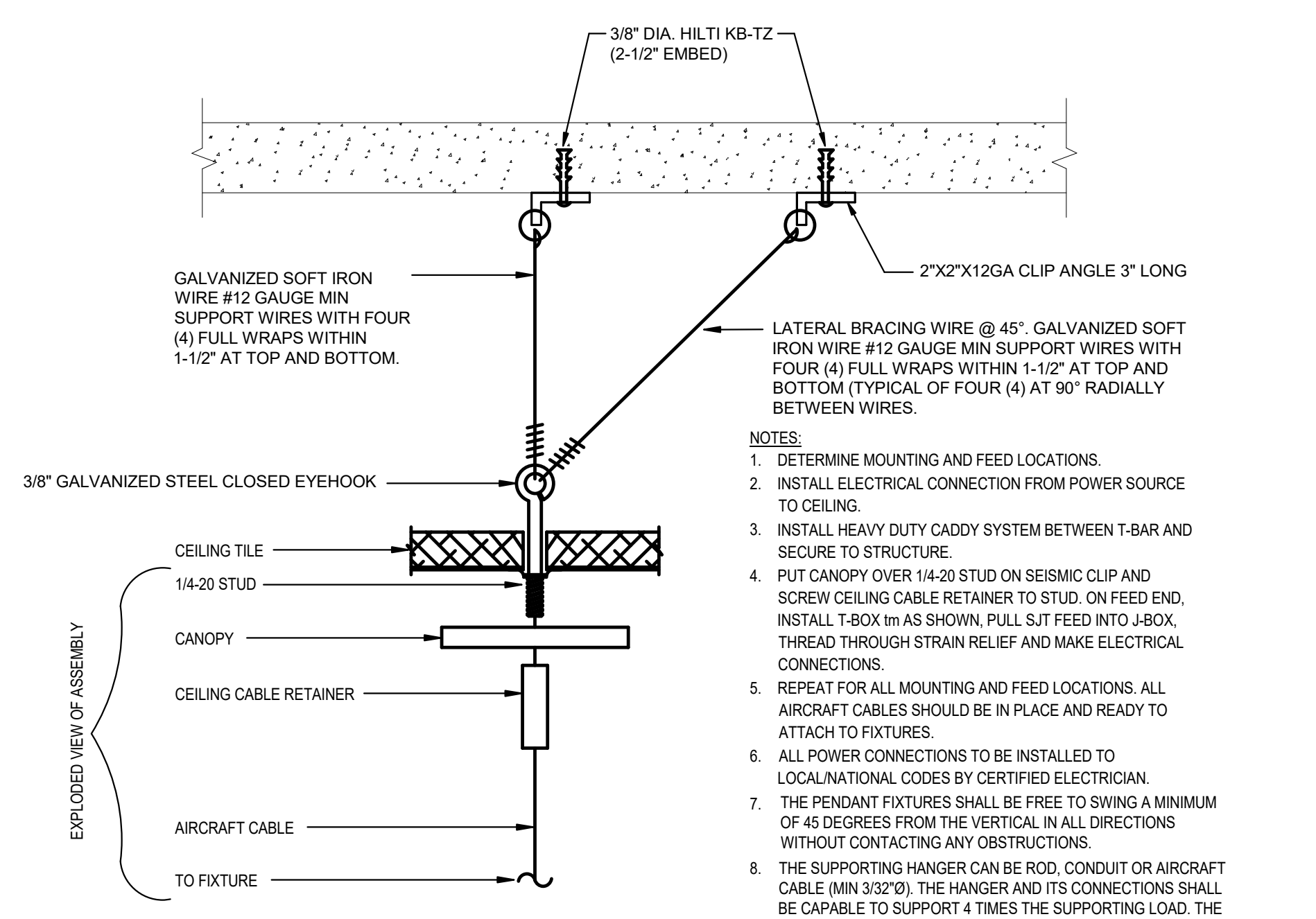
6 TITLE 24 LIGHTING CONTROL DETAIL



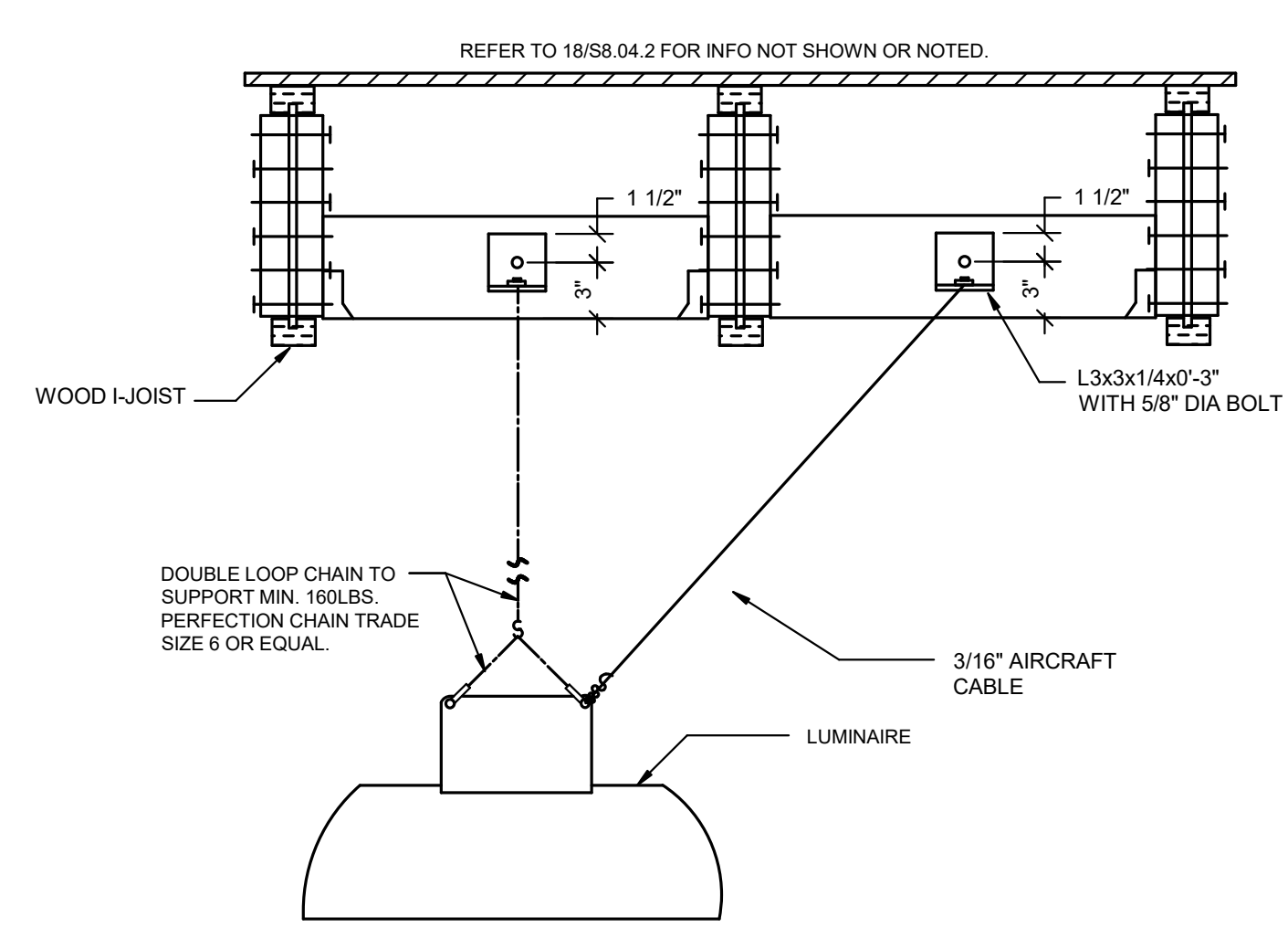
10 CABLE HUNG LUMINAIRE IN T-BAR CEILING - WOOD I-JOISTS



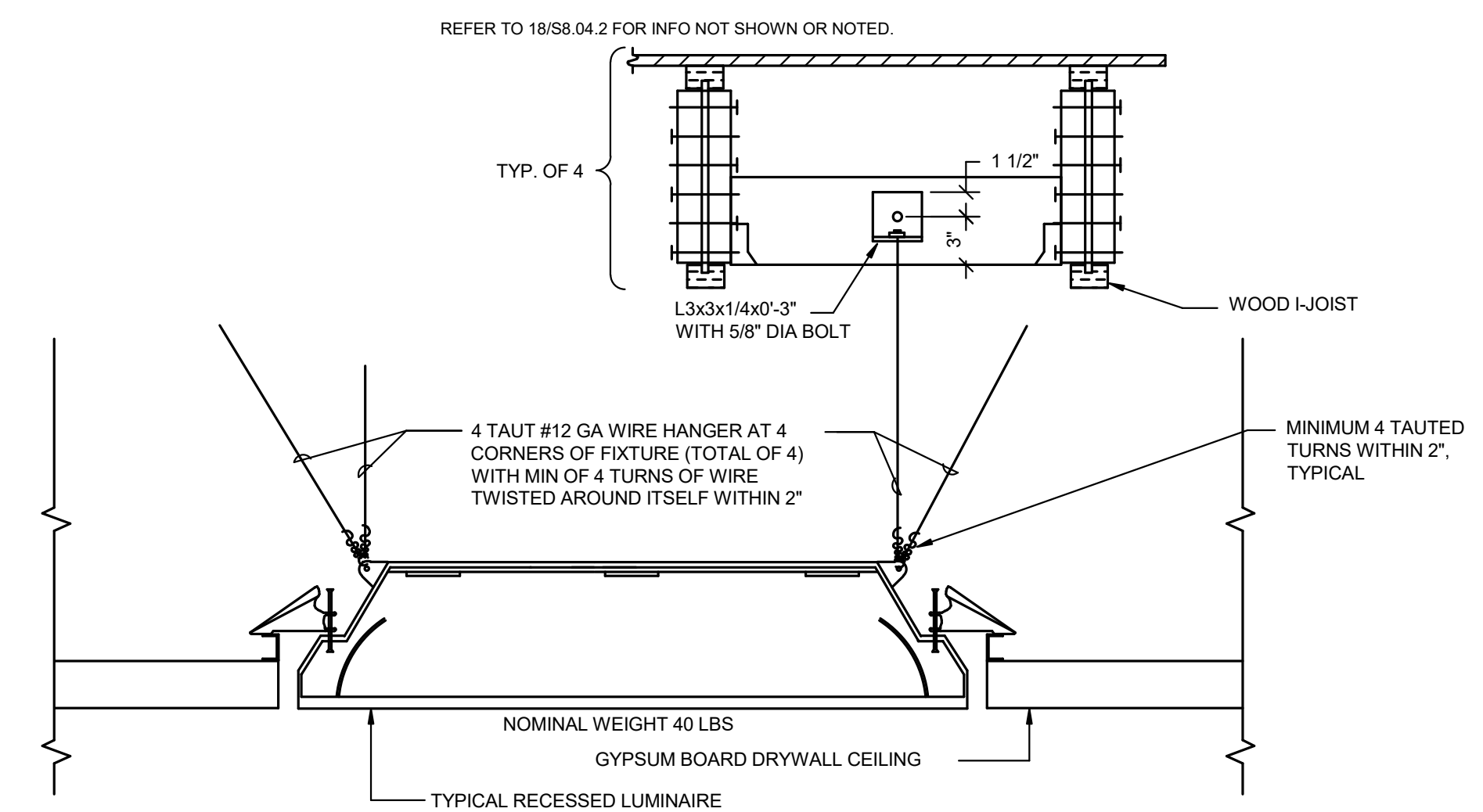
7 SWITCH BYPASS DEVICE EMERGENCY LIGHTING RELAY SCHEMATIC



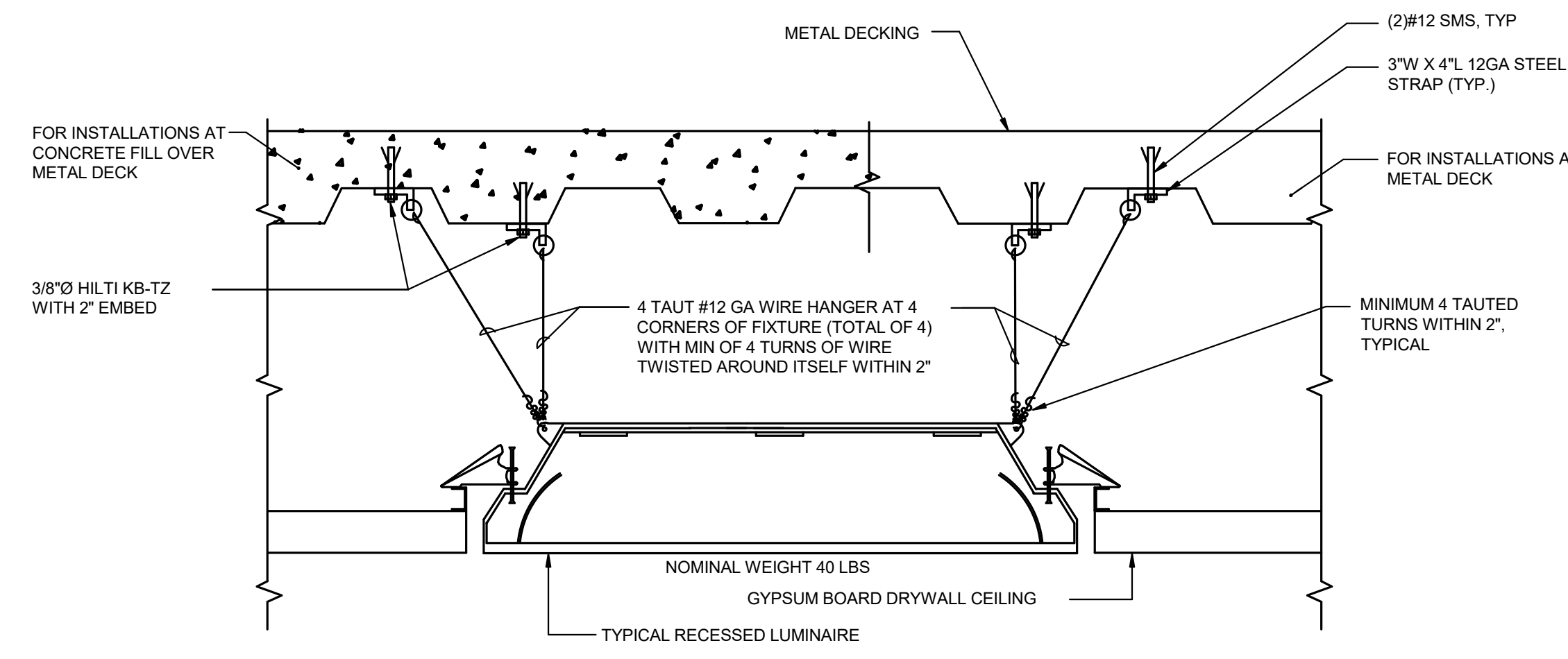
3 CABLE HUNG LUMINAIRE IN T-BAR CEILING



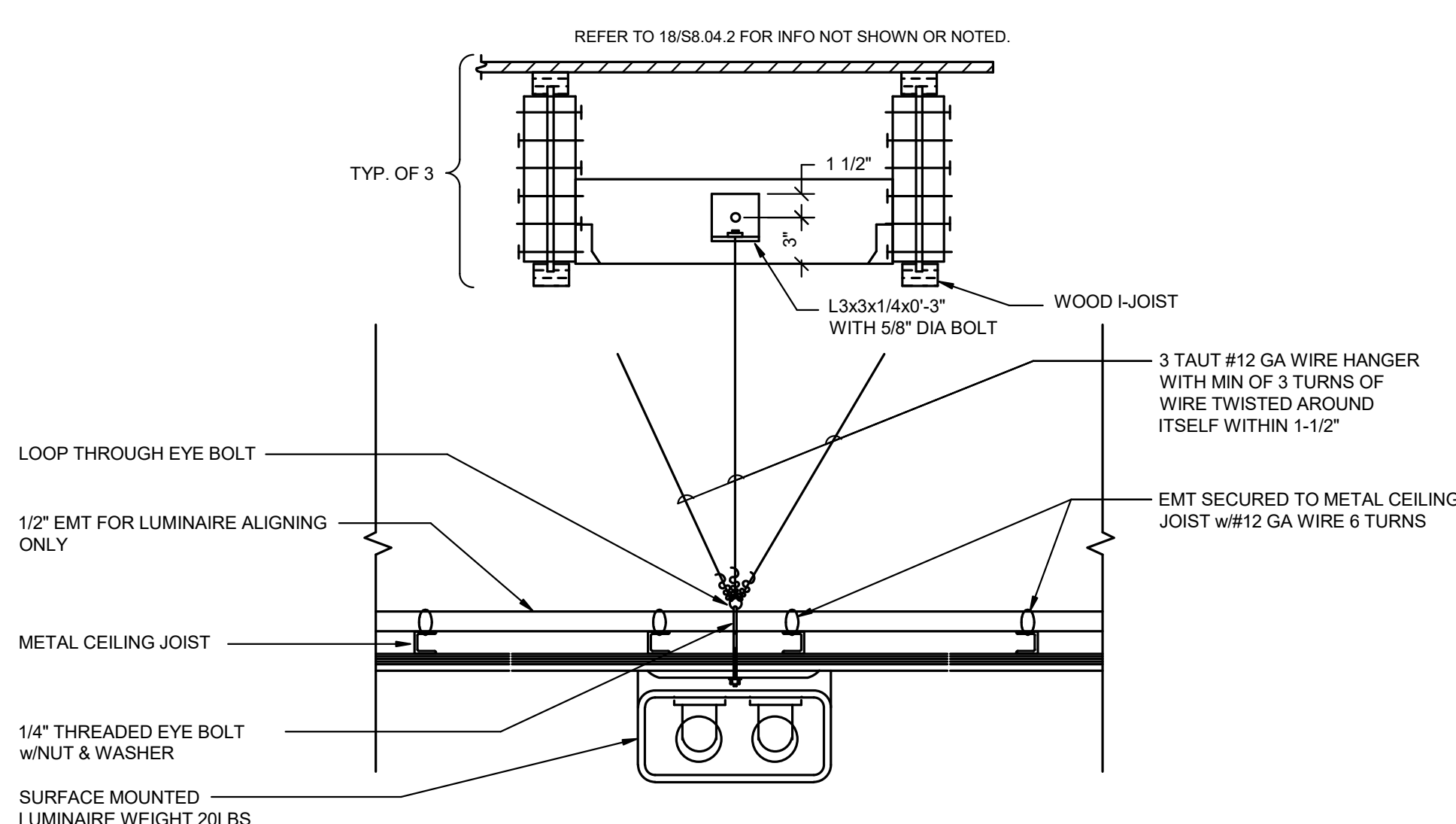
8 SURFACE MOUNTED LUMINAIRE MOUNTING METHOD - WOOD I- JOISTS



11 RECESSED LUMINAIRE HANGING METHOD - WOOD I-JOISTS



4 RECESSED LUMINAIRE HANGING METHOD



12 SURFACE MOUNTED LUMINAIRE MOUNTING METHOD - WOOD I-JOISTS

APPROVALS

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PROJECT 2016-0538
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www.interfaceengineering.com

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PROJECT TITLE

CONTRA COSTA CCD D-4002 DVC SAN RAMON CAMPUS EXPANSION & RENOVATION

1690 Watermill Rd.
San Ramon, CA 94582

RECORD SET:

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ISSUE TITLE

INCREMENT 2

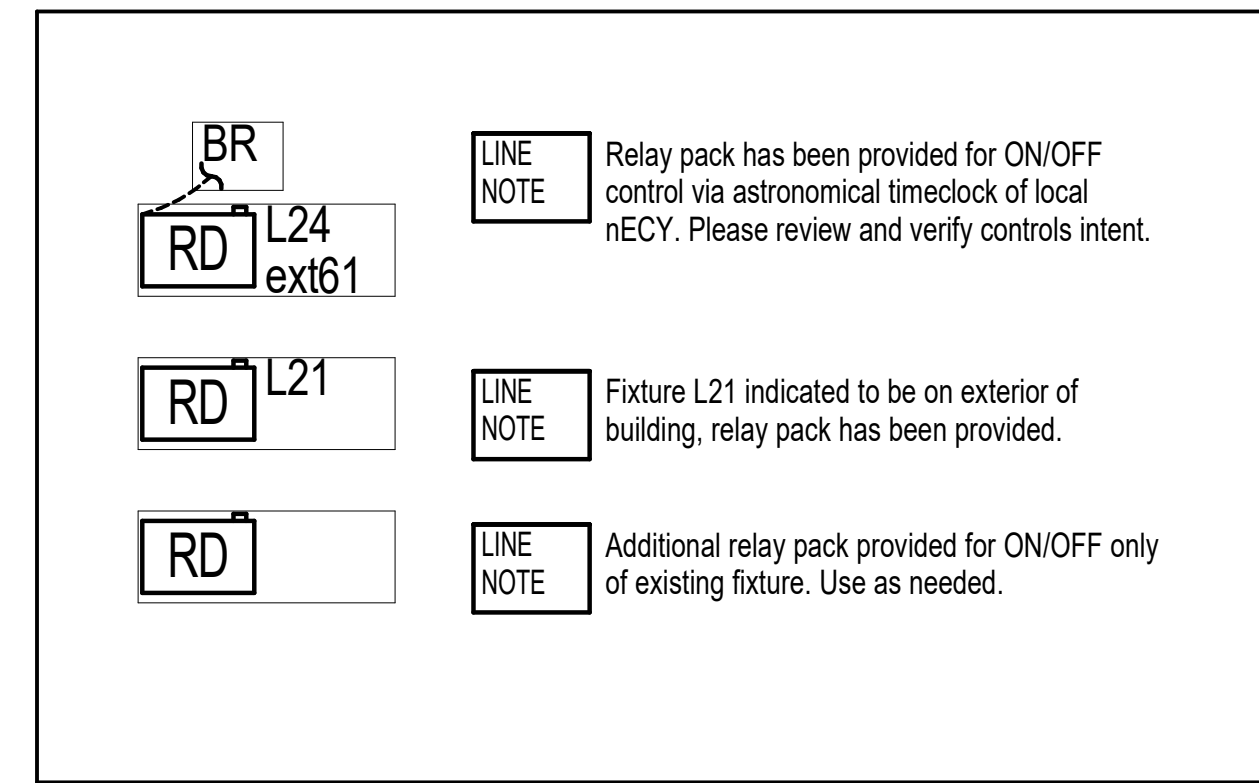
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| ISSUE DATE | 08/22/2023 |
| NOLL & TAM JOB NUMBER | 21630 |
| REVISIONS | |
| NO. DATE DESCRIPTION | |

SHEET TITLE

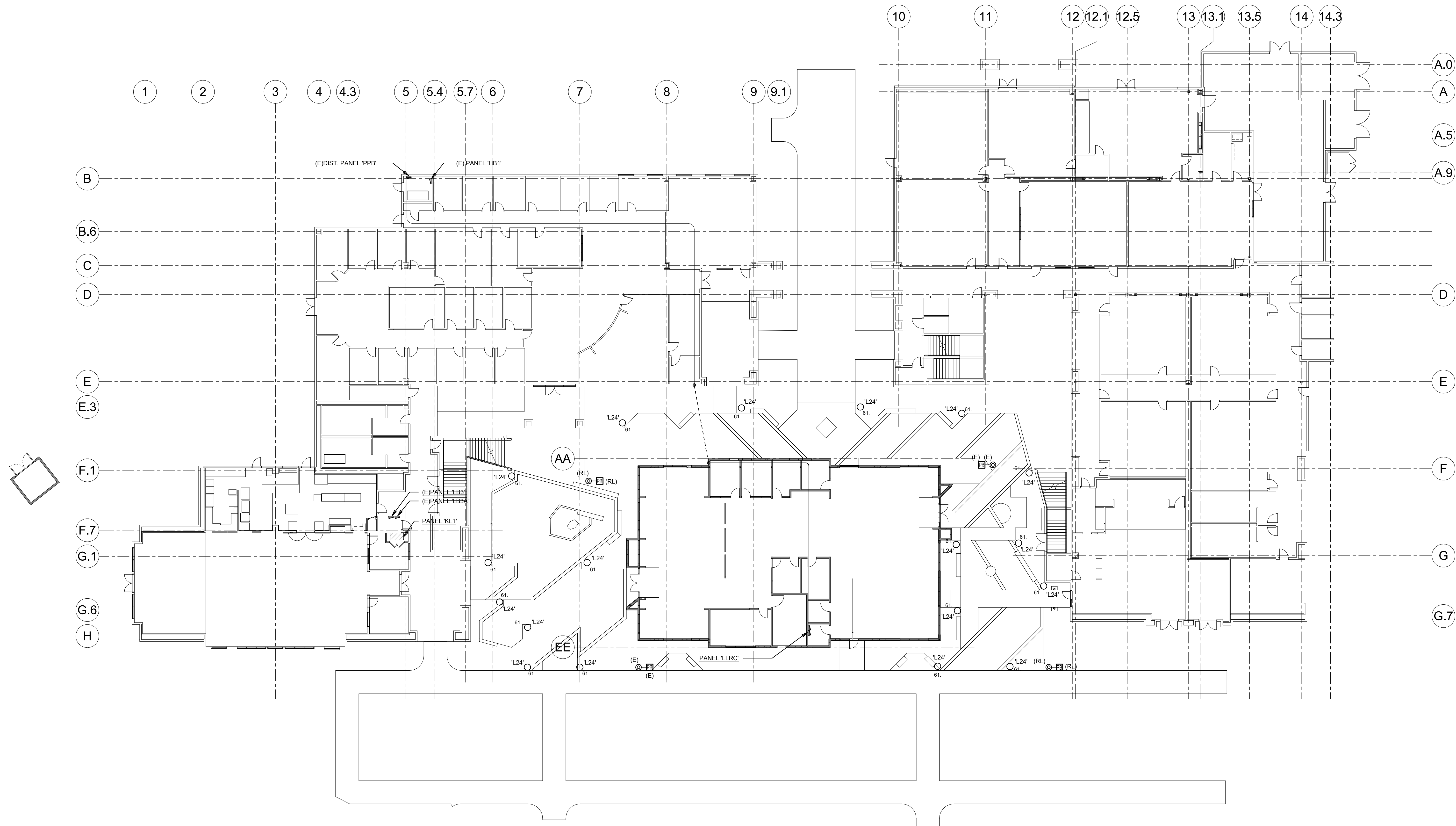
DETAILS - ELECTRICAL

SHEET NUMBER

E5.01.2



RFI #185 - MEI LINK BRIDGE AND LIGHTING CONTROL IN LLRC
Bridge 4 will be connected to the Eclipse System Controller located in the same building (learning commons / cafe). Bridge 1, 2, & 3 will be connected to a 2nd Eclipse System Controller located in the LLRC building. Both system will work independently from each other, but will need to be configured separately. Verify with campus if the two system are to be connected together, if yes, there are two options to do this. See markups in attached lighting control diagram from submittal 260300-1.2 dated 02/20/2020. Provide shop drawings back to vendor for corrections on diagram to reflect two buildings instead of Floor 1 and Floor 2, and update on either options upon coordination with campus.



1 1ST FLOOR OVERALL PLAN - ELECTRICAL
NO SCALE

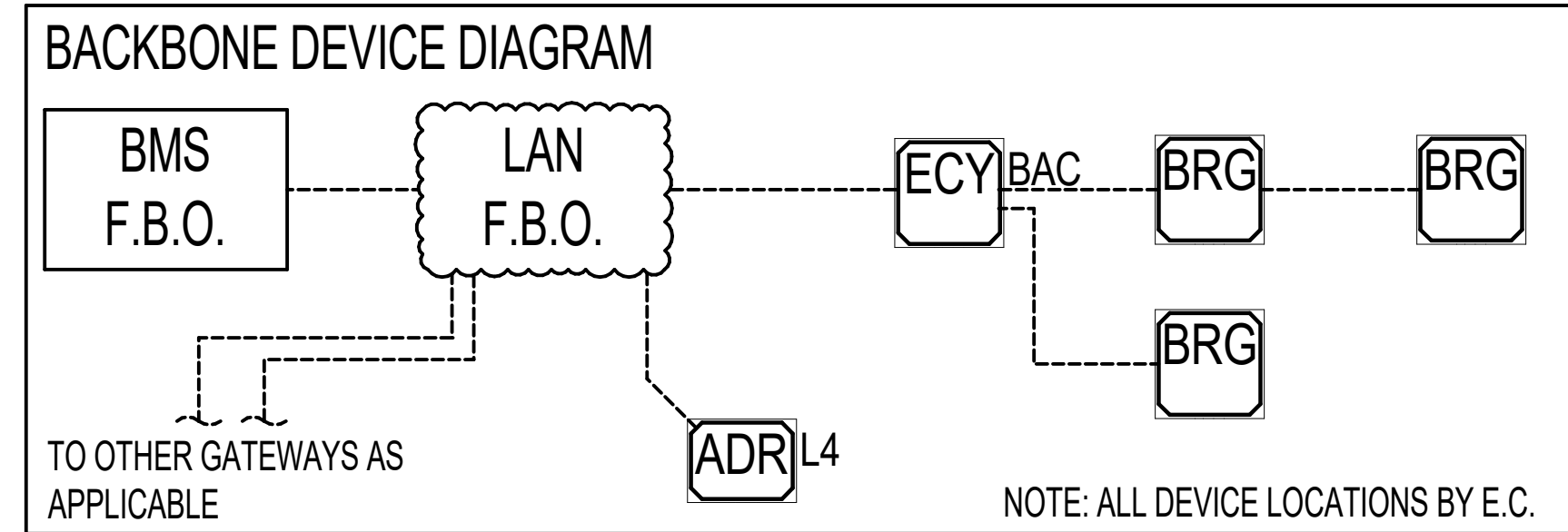
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sixteen 5 hundred

(510) 208-5005 lgtcontrols@16500.com
by TesarJack 11/5/2018

LEGEND and B.O.M.

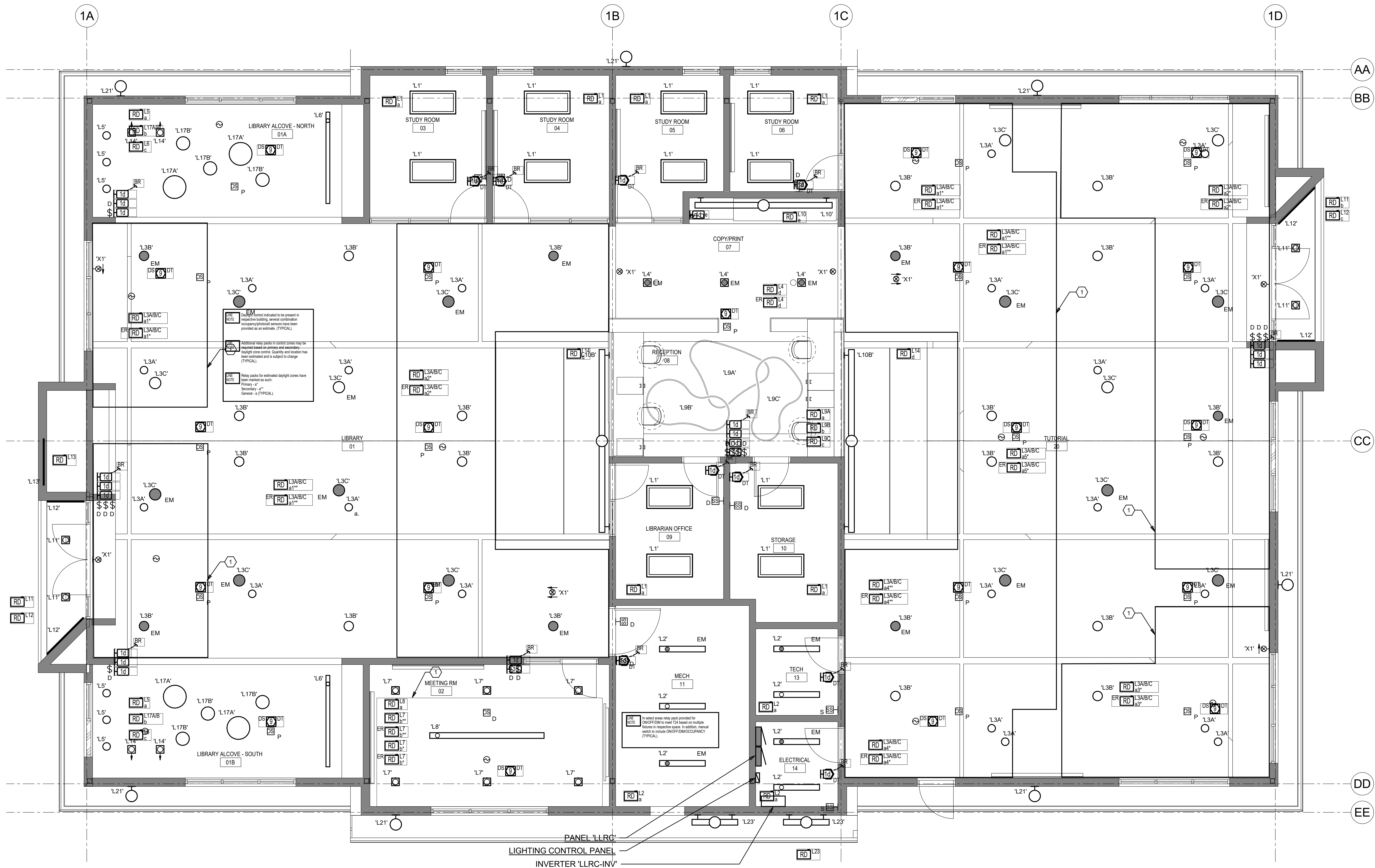
- nLight**
- 01. BACKBONE AND HEAD**
END
- ADR^{L4}** nADR L400
OpenADR Interface Module; Receives Power Demand Information from Utility DRAS. Supports up to 400 nLight Network Devices on 1 nLight Gateway. Includes Power Supply (120VAC)
 - BRG** nBRG 8 KIT
8-Port Network Bridge w/ Power Supply (120/277VAC)
 - ECY BAC** nECY MVOLT BAC ENC GFXX
Digital Time Clock + Network Controller; Max 1500 nLight Network Devices; Power Supply (120VAC) and Touch Screen Interface Included; BACnet Interfacing
- 02. USER WALL STATIONS**
- H1d** nPODM DX XX
3-Button, 1-Channel, Low Voltage Digital Wallpod w/ ON/OFF + Raise/Lower; In-Wall Mount
 - H1d** nWSX PDT LV DX WH
3-Button, 1-Channel, Low Voltage Digital Wallpod w/ Dual-Tech Occupancy Sensor, ON/OFF + Raise/Lower; In-Wall Mount
- 03. SENSORS**
- nPC** nIO PC KIT
Exterior PhotoCell Kit, Includes Exterior PhotoControl, nIO Input Module, Power Supply
 - 9 DT** nRM PDT 9
Recessed Mount Standard Dual-Tech Occupancy Sensor
 - 9 DT** nRM PDT 9 ADCX
Recessed Mount Standard Dual-Tech Occupancy Sensor w/ Integral Daylight Sensor
- 04. LIGHTING CONTROL PACKS**
- RD** nPP16 D
Power/Relay Pack w/ 0-10V Dimming Output; 16A Relay; 100mA DC Sink; 120/277VAC; Chase Nipple Mount
 - ER RD** nPP16 D ER
UL924 Listed Relay Pack w/ 0-10V Dimming Output; 16A Relay; 100mA DC Sink; 120/277VAC; Chase Nipple Mount
- 11. NOT INCLUDED IN QUOTE - FOR INFORMATION ONLY**
- WHIP**
Connection to nLight Bridge



EM Fixture Inverter

NOTE: EM fixture inverter to be used. EM fixtures not currently shown on plan. Therefore location and quantity of EM may change. Please coordinate with E.C. and verify controls meet.

NOTE: nLight pack provided for ambient lighting (L1) to (L14) only. nLight pack provided for ambient lighting (L1) to (L14) only. nLight pack provided for ambient lighting (L1) to (L14) only. nLight pack provided for ambient lighting (L1) to (L14) only.



1 LIBRARY LEARNING RESOURCE CENTER - LIGHTING



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D-4002
DVC SAN RAMON
CAMPUS EXPANSION &
RENOVATION**

1690 Watermill Rd.
San Ramon, CA 94582

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ISSUE TITLE

INCREMENT 2

ISSUE DATE 08/22/2023

NOLL & TAM JOB NUMBER 21630

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SHEET TITLE
**DETAILS - LIGHTING
CONTROLS**

SHEET NUMBER

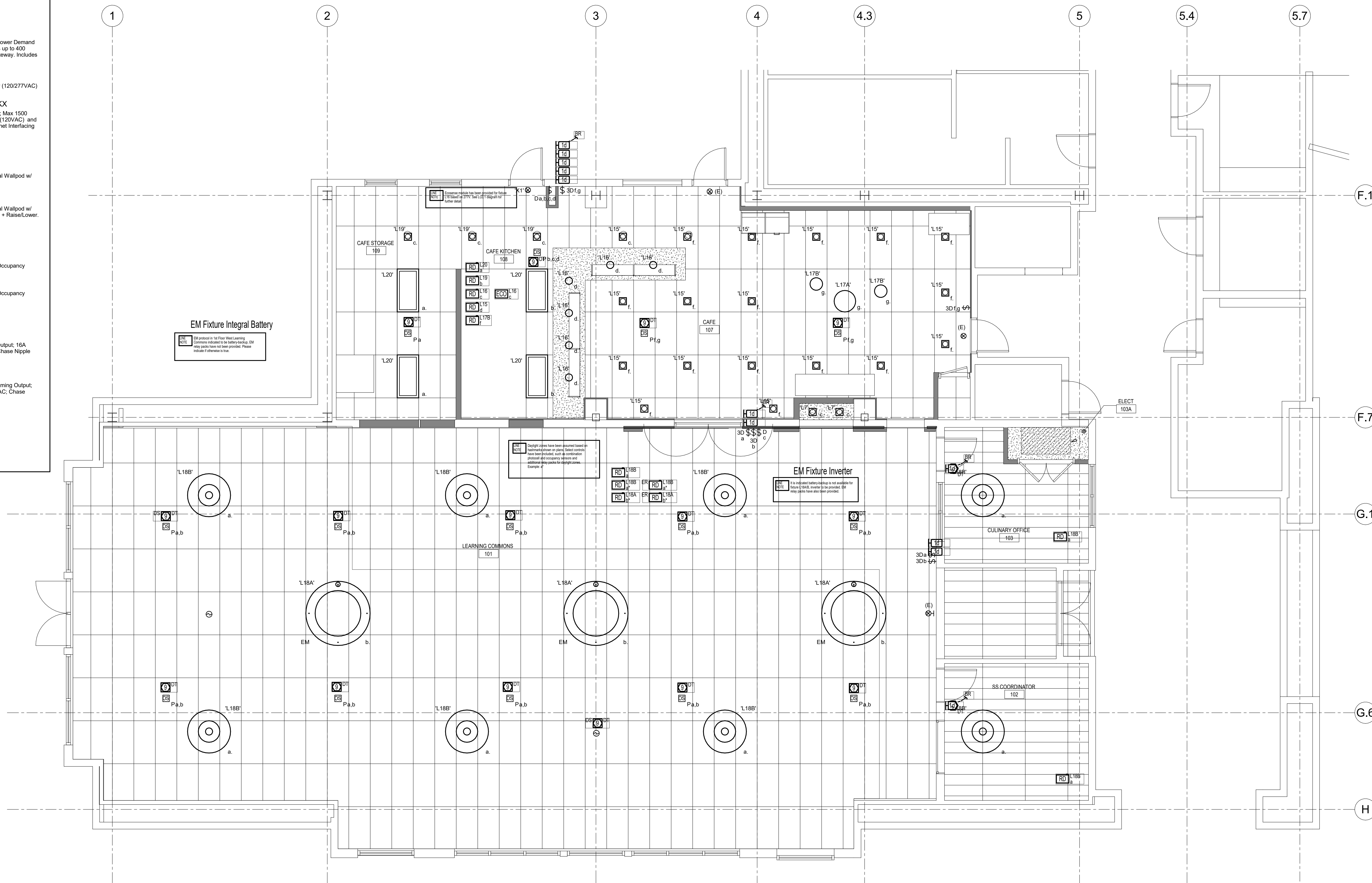
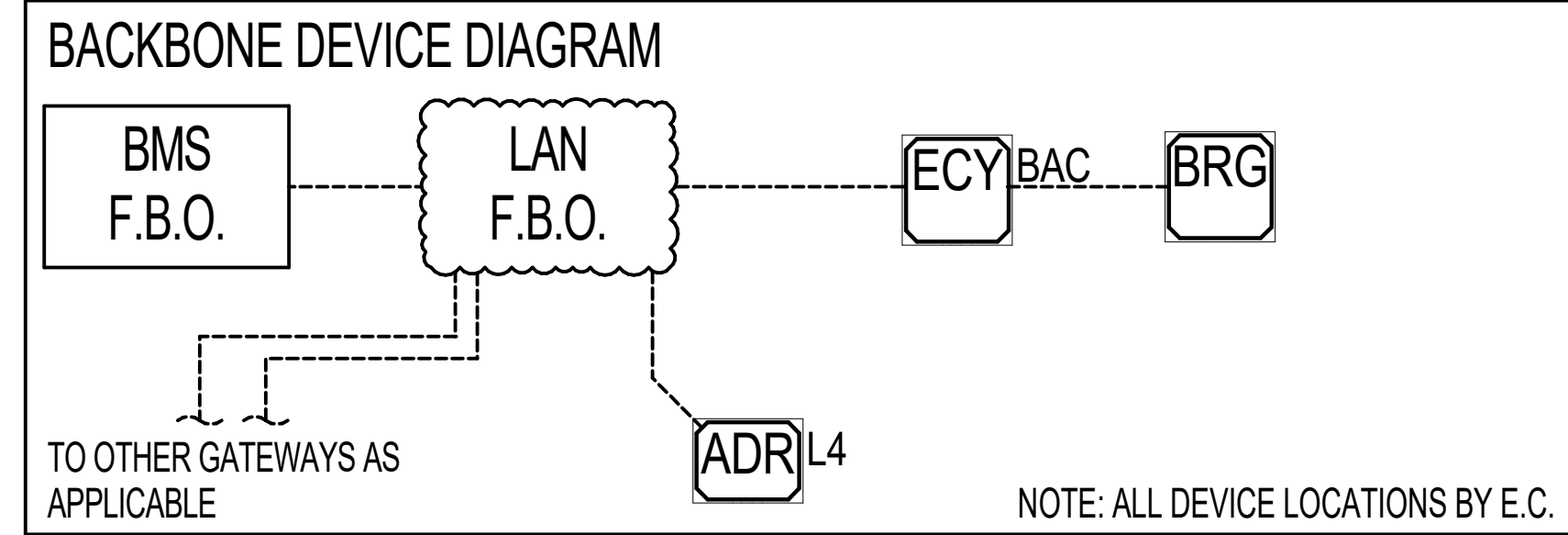
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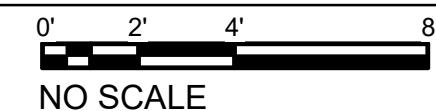
(510) 208-5005 Itgcontrols@16500.com
by TesarJack 11/1/2018: 10:23 AM

LEGEND and B.O.M.

- EcoSense**
- 04. LIGHTING CONTROL PACKS**
- ECO** LDCM-PL-120-277-010V-GR
0-10V to ELV Module w/ Reverse Phase Dimming for Electronic Loads; 3.9A Rating; 120/277VAC
- nLight**
- 01. BACKBONE AND HEAD END**
- ADR L4** nADR L400
OpenADR Interface Module. Receives Power Demand Information from Utility DRAS. Supports up to 400 nLight Network Devices on 1 nLight Gateway. Includes Power Supply (120VAC)
- BRG** nBRG 8 KIT
8-Port Network Bridge w/ Power Supply (120/277VAC)
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- 11. NOT INCLUDED IN QUOTE - FOR INFORMATION ONLY**
- WHIP**
Connection to nLight Bridge



1 NEW - 1ST FLOOR - WEST - LEARNING COMMONS - LIGHTING



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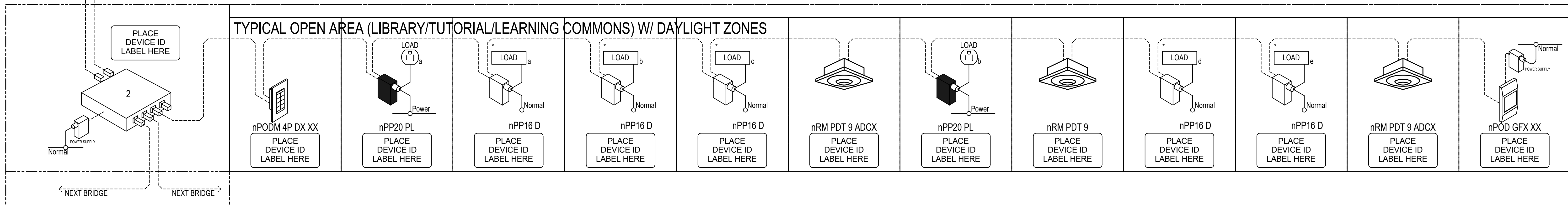
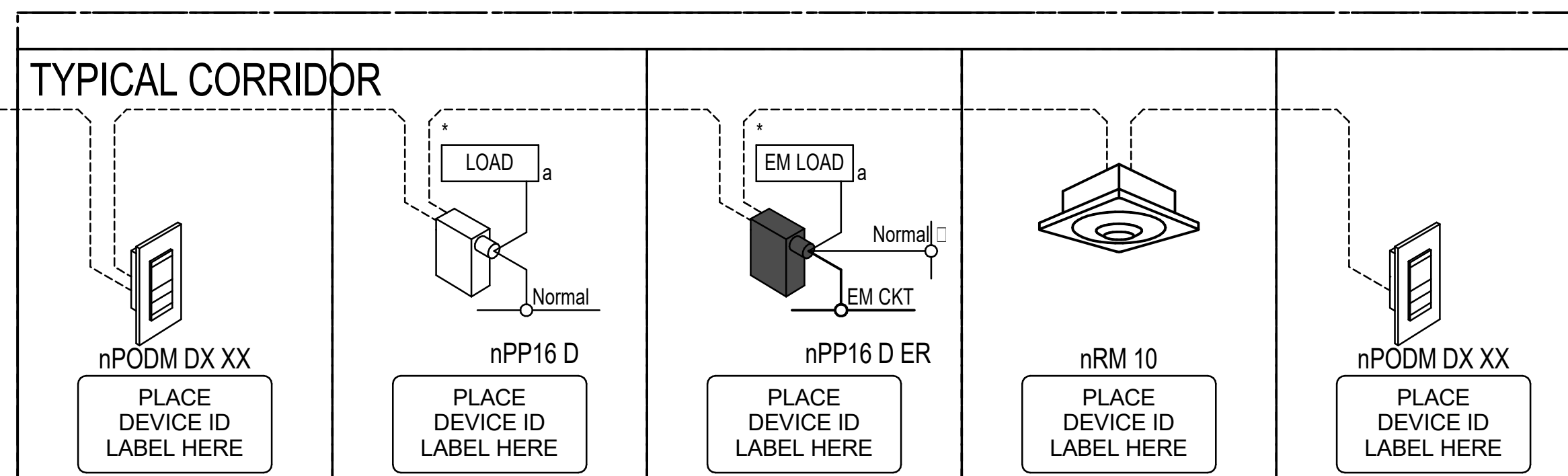
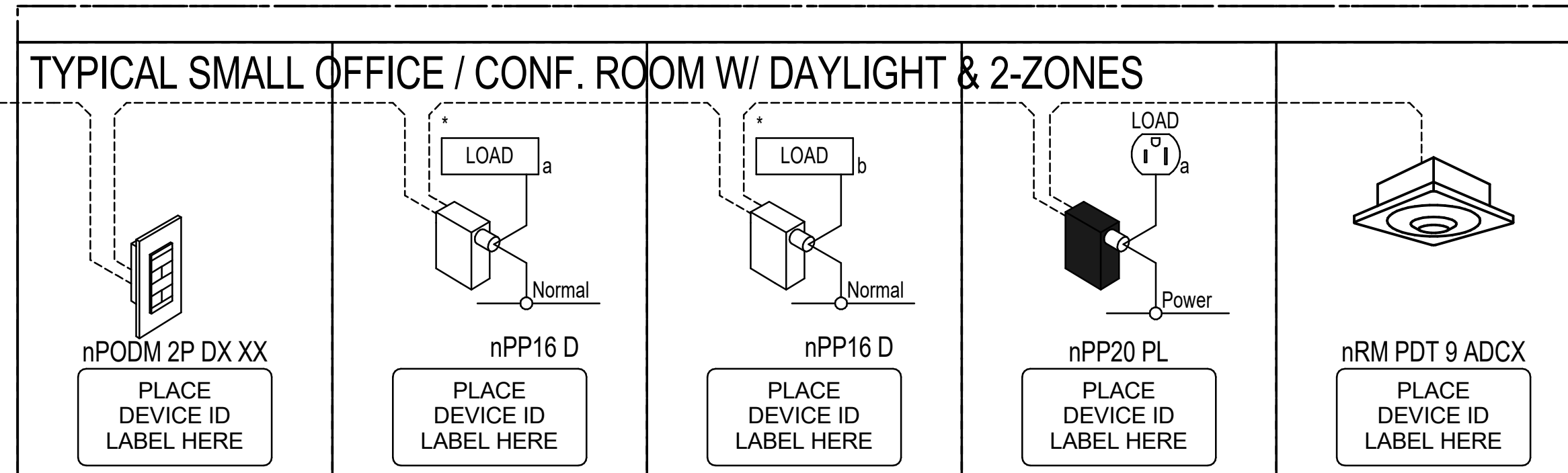
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SHEET TITLE

DETAILS - LIGHTING CONTROLS

SHEET NUMBER

E5.05.2



TYPICAL SEQUENCE OF OPERATIONS (INDOOR):
THIS QUOTE PROVIDES FOR THE FOLLOWING SEQUENCE OF OPERATIONS AS APPLICABLE BY SPACE USE:
OFFICES/STUDY ROOMS : MANUAL-ON, AUTO-OFF VIA OCC. SENSOR, SINGLE-CHANNEL MANUAL OVERRIDE ON/OFF/DIM, TIMECLOCK PROFILE, PLUG LOADS AUTO-OFF VIA OCC SENSOR.
CONFERENCE ROOMS: AUTO-ON/OFF VIA OCC. SENSOR, SINGLE-CHANNEL MANUAL OVERRIDE ON/OFF/DIM, FOUR (4) PUSHBUTTON LIGHTING PRESETS (ONLY AT SELECT LOCATIONS - SEE LAYOUTS), TIMECLOCK PROFILE, PLUG LOADS AUTO-OFF VIA OCC SENSOR. NOTE: AT SOME CONFERENCE LOCATIONS, COLOR TOUCH SCREEN CONTROLLER PROVIDED.
CORRIDORS/CIRCULATION : AUTO-ON VIA OCC. SENSOR, DIM TO 50% DURING VACANCY, SINGLE-CHANNEL MANUAL OVERRIDE ON/OFF/DIM, TIMECLOCK PROFILE FOR AUTO-OFF AFTER HOURS.
RECEPTION: AUTO-ON VIA OCC. SENSOR, DIM TO 50% DURING VACANCY, SINGLE-CHANNEL MANUAL OVERRIDE ON/OFF/DIM, TIMECLOCK PROFILE, PLUG LOADS AUTO-OFF VIA OCC SENSOR.
LIBRARY/TUTORIAL/LEARNING COMMONS : AUTO-ON VIA OCC. SENSOR, DIM TO 50% DURING VACANCY, SINGLE-CHANNEL MANUAL OVERRIDE ON/OFF/DIM, TIMECLOCK PROFILE FOR AUTO-OFF AFTER HOURS.
ALL OTHER INDOOR SPACES (WITH OCCUPANCY SENSOR) : AUTO-ON/OFF VIA OCC. SENSOR, SINGLE-CHANNEL MANUAL OVERRIDE ON/OFF WITH DIMMING PER PLANS, TIMECLOCK PROFILE.
ALL OTHER INDOOR SPACES (WITHOUT OCCUPANCY SENSOR) : SINGLE-CHANNEL MANUAL OVERRIDE ON/OFF WITH DIMMING PER PLANS, TIMECLOCK PROFILE ENABLES LIGHTING DURING TYPICALLY OCCUPIED TIMES, AUTO OFF VIA TIMECLOCK.
DAYLIT ZONES: IN ALL AREAS WHERE LIGHTING POWER WITHIN PRIMARY SIDELIT ZONES EXCEEDS 120W, SUCH LIGHTING SHALL AUTOMATICALLY DIM BASED ON DAYLIGHT CONTRIBUTION TO MAINTAIN DESIGN ILLUMINANCE AND DISTRIBUTION, HOWEVER, LIGHTING IN THESE ZONES SHALL NOT BE INDEPENDENTLY MANUALLY CONTROLLED.
DEMAND RESPONSE : SYSTEM QUOTED IS CAPABLE OF RECEIVING RECEIVING OpenADR 2.0a COMMAND SIGNAL FROM UTILITY DEMAND-RESPONSE-AUTOMATION-SERVER (DRAS) AND REDUCING LIGHTING POWER IN ACCORDANCE WITH CEC T24 PART 6, 130.1(e).
TIMECLOCK & USER SCHEDULES VIA DRY CONTACT(S) : SYSTEM QUOTED PROVIDES DIGITAL ASTRONOMICAL TIMECLOCK, USER PROFILES AND SCHEDULES ARE PROGRAMMED VIA PC COMPUTER CONNECTION AND STORED AT THE GATEWAY(S), OWNER TO PROVIDE DESIRED SCHEDULE PRIOR TO SYSTEM STARTUP.
NOTES:
1. ALL CONTROLLED LIGHTING SHALL BE AUTOMATICALLY SHUT OFF DURING TYPICALLY UNOCCUPIED HOURS, AUTO-OFF VIA OCC. SENSOR AT LOCATIONS WHERE SUCH SENSOR IS PROVIDED.
2. NON-GENERAL CONTROLLED LIGHTING (E.G. TASK) SHALL BE INDEPENDENTLY CONTROLLED AND SHALL NOT AUTOMATICALLY TURN ON VIA OCC. SENSOR.
3. OCCUPANCY SENSOR TIME DELAY SHALL BE 10 MINUTES UNLESS NOTED OTHERWISE.
4. ALL CONTROLLED LIGHTING FIXTURES DESIGNATED FOR PATH OF EGRESS ILLUMINATION AND CONNECTED TO A INVERTER CIRCUIT SHALL BE CONTROLLED BY CONTROLS THAT, UPON SENSING LOSS OF UTILITY POWER, AUTOMATICALLY BYPASS SUCH CONTROL SO AS TO ENSURE INVERTER POWER TO REACH THE FIXTURE FOR A MINIMUM 90 CONTINUOUS MINUTES DURING SUCH LOSS OF UTILITY POWER.
SEQUENCE OF OPERATIONS (OUTDOOR):
ALL OTHER LIGHTING: DURING DAYLIT HOURS - LIGHTING OFF, DURING DARK HOURS - ON.

BASIS OF DESIGN: ACUITY NLIGHT LIGHTING CONTROL SYSTEM. COORDINATE FINAL DEVICE QUANTITY AND LOCATIONS WITH ARCHITECT AND ELECTRICAL ENGINEER. LIGHTING LAYOUT SHOWN DOES NOT REFLECT FINAL LIGHTING DESIGN. FINAL LIGHTING CONTROL DRAWINGS TO BE COORDINATED WITH CONTROLS MANUFACTURER.

GENERAL ABBREVIATIONS:

| | |
|--|--|
| A AMPERES | N NEW (N) |
| ACP ACCESS CONTROL PANEL | NC NORMALLY CLOSED |
| ACS ACCESS CONTROL SYSTEM | NET NETWORK |
| AFF ABOVE FINISHED FLOOR | NIC NOT IN CONTRACT |
| AHJ AUTHORITY HAVING JURISDICTION | NO NORMALLY OPEN |
| ALS ASSISTIVE LISTENING SYSTEM | NTS NOT TO SCALE |
| AMP AMPLIFIER | OC ON CENTER |
| AOR ARCHITECT OF RECORD | OFCI OWNER FURNISHED, CONTRACTOR INSTALLED |
| AUD AUDIO | OFE OWNER FURNISHED EQUIPMENT |
| AUTO AUTOMATIC | OFOI OWNER FURNISHED, OWNER INSTALLED |
| AUX AUXILIARY | OSP OUTSIDE PLANT |
| AV AUDIOVISUAL | P PAGING LOUDSPEAKER |
| AVC AUDIOVISUAL CONTRACTOR | PB PULL BOX |
| AVTC AUDIOVISUAL TERMINAL CABINET | PIR PASSIVE INFRARED |
| AWG AMERICAN WIRE GAUGE | PNL PANEL |
| BCT BONDING CONDUCTOR FOR TELECOMMUNICATIONS | POE POWER OVER ETHERNET |
| BP BROADCAST PANEL | PPP PORT PATCH PANEL |
| C CONDUIT | PR PAIR OF CONDUCTORS |
| CAM CAMERA | PROJ PROJECTOR |
| CATV COMMUNITY ANTENNA TELEVISION SYSTEM | PT POKE THROUGH DEVICE |
| CFCI CONTRACTOR FURNISHED, CONTRACTOR INSTALLED | PTZ PAN TILT ZOOM |
| CFOI CONTRACTOR FURNISHED, OWNER INSTALLED | PVC POLYVINYL CHLORIDE |
| CL CENTERLINE | PWR POWER |
| CP CONTROL PANEL | R RIGHT AUDIO |
| CPU COMPUTER | RCP REFLECTIVE CEILING PLAN |
| CS CONDUIT STUB | REX REQUEST TO EXIT |
| CSA CHARLES SALTER ASSOCIATES | RMC RIGID METALLIC CONDUIT |
| DA DISTRIBUTION AMPLIFIER | RX RECEIVER |
| DGP DATA GATHERING PANEL | S LOUDSPEAKER |
| DIV DIVISION | SAD SEE ARCHITECTURAL DRAWINGS |
| DMA DOOR MANAGEMENT ALARM | SC PROJECTOR SCREEN CONTROL |
| DOC DOCUMENT CAMERA | SCRN PROJECTION SCREEN |
| DP PANEL DISPLAY | SDI SERIAL DIGITAL INTERFACE |
| DS DIGITAL SIGNAGE | SED SEE ELECTRICAL DRAWINGS |
| DSP DIGITAL SIGNAL PROCESSOR | SEH SECURITY EQUIPMENT HUB |
| DVI DIGITAL VISUAL INTERFACE | SM SINGLE MODE |
| E EXISTING (E) | SMS SECURITY MANAGEMENT SYSTEM |
| EC ELECTRICAL CONTRACTOR | SPD SURGE PROTECTION DEVICE |
| ECS EMERGENCY COMMUNICATION SYSTEM | SR SURROUND REAR LOUDSPEAKER |
| EF ENTRANCE FACILITY FOR TELECOMMUNICATIONS (MPOE) | SS SURROUND SIDE LOUDSPEAKER |
| EMT ELECTRICAL METALLIC TUBING | STP SHIELDED TWISTED PAIR |
| ER EQUIPMENT ROOM | STR STRANDS (OF FIBER) |
| EXT EXTERIOR | SUB SUBWOOFER LOUDSPEAKER |
| F FUTURE (F) | SY SECURITY |
| FACP FIRE ALARM CONTROL PANEL | SYS SYSTEM |
| FATC FIRE ALARM TERMINAL CABINET | TB TABLE BOX |
| FB FLOOR BOX | TBB TELECOMMUNICATIONS BONDING BACKBONE |
| FO FIBER OPTIC | TELC TELEPHONE COMPANY |
| FOV FIELD OF VIEW | O |
| GC GENERAL CONTRACTOR | TMGB TELECOMMUNICATIONS MAIN GROUNDING BUS BAR |
| GE GROUNDING EQUALIZER | TP TOUCH PANEL |
| HDBT HD BASE-T | TR TELECOM ROOM (IDF) |
| HDMI HIGH DEFINITION MULTIMEDIA INTERFACE | TY SECURITY |
| IC INTERCOM | TYP TYPICAL |
| IDF INTERMEDIATE DISTRIBUTION FRAME | UL UNDERWRITERS LABORATORIES |
| IDS INTRUSION DETECTION SYSTEM | UON UNLESS OTHERWISE NOTED |
| INT INTERIOR | UPS UNINTERRUPTIBLE POWER SUPPLY |
| IP INTERNET PROTOCOL | UTP UNSHIELDED TWISTED PAIR |
| IR INFRARED | V VOLTS |
| IT INFORMATION TECHNOLOGY | VAC VOLTS, ALTERNATING CURRENT |
| JB JUNCTION BOX | VC VOLUME CONTROL |
| L LEFT AUDIO | VDA VIDEO DISTRIBUTION AMPLIFIER |
| LS LOUDSPEAKER | VDC VOLTS, DIRECT CURRENT |
| LVC LOW VOLTAGE CONTROLLER | VMS VIDEO MATRIX SWITCH |
| MATV MASTER ANTENNA TELEVISION | VP VIDEO PROJECTOR |
| MDF MAIN DISTRIBUTION FRAME | VSS VIDEO SURVEILLANCE SYSTEM |
| MIC MICROPHONE | WB WALL BOX |
| MM MULTIMODE | WM WIRELESS MICROPHONE RECEIVER ANTENNA |
| MPOE MINIMUM POINT OF ENTRY | WP WEATHERPROOF |

TECHNOLOGY GENERAL NOTES:

- GENERAL**
- ANY SHEET NOTES OR OTHER CALLOUTS IN THESE DRAWINGS THAT ASSIGN RESPONSIBILITY OF WORK TO SPECIFIC DIVISIONS ARE TO BE CONSIDERED AS A RECOMMENDATION ONLY.
 - REFER TO PROJECT MANUAL DIVISIONS 27 AND 28 FOR PROJECT SCOPE, PRODUCT SPECIFICATIONS, AND INSTALLATION REQUIREMENTS.
 - UNLESS OTHERWISE SPECIFICALLY DIMENSIONED, THESE DRAWINGS REPRESENT APPROXIMATE LOCATIONS OF DEVICES ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
 - COMPLY WITH ADA REQUIREMENTS FOR MOUNTING HEIGHTS OF DEVICES.
 - REFER TO DIVISION 26 FOR POWER AND LIGHTING REQUIREMENTS.
 - REFER TO DIVISION 23 FOR COOLING REQUIREMENTS.

CONDUIT & BOXES

- REFER TO DIVISION 26 FOR SCOPE REQUIREMENTS RELATED TO CONDUIT, JUNCTION BOXES, AND OTHER CONDUIT TERMINAL BOXES WHERE NOT ADDRESSED SPECIFICALLY IN THESE DRAWINGS.
- CONDUIT ROUTING ON PLANS IS DIAGRAMMATIC. COORDINATE WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID CONFLICT.
- PROVIDE PULL STRINGS IN CONDUITS. LABEL CONDUITS THAT ARE STUBBED-OUT, OR AT TERMINATION BOXES, INDICATING DESTINATION ROOM AT OPPOSITE END. LABELING CONDUIT BOXES IS NOT REQUIRED FOR CONDUIT STUBBED UP ABOVE CEILING.
- PAINT BOXES AND LAST 12 INCHES OF ACCESSIBLE CONDUIT INSTALLED FOR LOW-VOLTAGE CIRCUITS A DISTINCTIVE AND DIFFERENT COLOR FROM OTHER TRADES' CONDUIT AND BOXES.
- MAXIMUM TOTAL DEGREE OF SWEEP TYPE BENDS IN CONDUIT BETWEEN PULL POINTS IS 180 DEGREES. ADD PULL BOXES AS REQUIRED TO MEET THIS REQUIREMENT. MAKE BENDS BEFORE OR AFTER PULL BOXES. DO NOT CHANGE DIRECTION OF CONDUITS WITHIN PULL BOXES.
- DO NOT USE JUNCTION BOXES OR PULL BOXES AS PATH TURNS FOR ANY STRUCTURED CABLING.
- MARK AND COLOR-CODE JUNCTION BOXES AND TERMINAL CABINETS WITH THEIR BOX SCHEDULE NUMBER ON THE INSIDE OF THE BOX FACING THE ROOM, SUCH THAT THEY REMAIN IDENTIFIABLE AFTER CLOSURE OF WALLS.
- PROVIDE 1-INCH CONDUIT TO TELECOMMUNICATIONS 4-11/16-INCH BACK BOXES; BOXES TO BE 3-INCH DEEP WITH SINGLE-GANG MUD RING UNLESS OTHERWISE NOTED.
- REFER TO ARCHITECTURAL AND/OR ELECTRICAL DRAWINGS FOR ANY REQUIRED TECHNOLOGY-RELATED ACOUSTICAL MEASURES REGARDING CONDUIT PENETRATIONS, ELECTRICAL BOX SEALANT PADS, AND GYPSUM BOARD BOX-OUTS FOR LOUDSPEAKERS AND LARGE BOXES, ETC.
- UNLESS OTHERWISE SHOWN OR NOTED, FLEXIBLE CONDUIT SHALL NOT BE USED WITHOUT TECHNOLOGY CONSULTANT'S WRITTEN APPROVAL.
- FOR CONDUITS WITH INTERNAL DIAMETERS OF 2 INCHES OR LESS, THE INSIDE BEND RADIUS OF A BEND IN CONDUIT SHALL BE AT LEAST 6 TIMES THE CONDUIT INTERNAL DIAMETER. FOR CONDUITS WITH AN INTERNAL DIAMETER OF MORE THAN 2 INCHES, THE INSIDE RADIUS OF A BEND IN CONDUIT SHALL BE AT LEAST 10 TIMES THE CONDUIT INTERNAL DIAMETER.
- PROVIDE A MINIMUM OF ONE 1-1/4-INCH CONDUIT TO EACH FLOOR BOX FOR TELECOM THAT IS SEPARATE FROM CONDUITS REQUIRED FOR AV AND POWER, UON.
- INSTALL SEPARATE CONDUITS TO EACH FLOOR BOX. DO NOT PASS THROUGH ONE FLOOR BOX TO ACCESS ANOTHER BOX, UON.

PROCESS

- REPORT ANY OBSERVATIONS OR CONDITIONS AT TIME OF DISCOVERY THAT PREVENT THE CORRECT INSTALLATION OF THE DESIGNED SYSTEM ACCORDING TO THE DRAWINGS AND SPECIFICATIONS.
- SUBMIT REQUESTS-FOR-INFO (RFI) THROUGH THE DIVISION 01 PRESCRIBED COMMUNICATIONS PROTOCOL.
- WHEN AN APPARENT CONFLICT EXIST BETWEEN LOW-VOLTAGE DISCIPLINES AND OTHER DISCIPLINES, RESOLVE THROUGH RFI PROCESS.
- CREATE AND SUBMIT SHOP DRAWINGS SHOWING BACK BOX AND CONDUIT COORDINATION FOR DIVISIONS 27 AND 28.
- INSTALLATION OF FLOOR BOXES IS DIVISION 26 SCOPE. COORDINATE FLOOR BOX REQUIREMENTS AS DETAILED IN THESE DOCUMENTS WITH OTHER DISCIPLINES AND NOTIFY THROUGH RFI PROCESS WHERE CONFLICTS OR REDUNDANCY MAY OCCUR.
- VERIFY LOCATION OF FLOOR BOXES WITH ARCHITECT/OWNER REPRESENTATIVE PRIOR TO INSTALLATION.
- NOTIFY ARCHITECT OF THE INTENT TO CLOSE WALLS AND CEILINGS, A MINIMUM OF FIVE WORKING DAYS PRIOR TO CLOSURE, AND REQUEST SITE OBSERVATIONS FOR EACH DISCIPLINE AFFECTED.
- UNLESS OTHERWISE PROVIDED IN ARCHITECTURAL, STRUCTURAL, OR TECHNOLOGY DRAWINGS, PROVIDE TECHNOLOGY DEVICE STRUCTURAL ATTACHMENT DETAIL SHOP DRAWINGS PREPARED, STAMPED, AND SIGNED BY A STRUCTURAL ENGINEER LICENSED IN THE PROJECT JURISDICTION.

AC POWER & GROUNDING

- AC POWER CIRCUITS AND RECEPTACLES ARE SHOWN FOR REFERENCE ONLY. SEE ELECTRICAL DRAWINGS FOR SCOPE-OF-WORK AND SPECIFIC CIRCUIT ASSIGNMENTS. WHERE A CONFLICT EXISTS BETWEEN THE ELECTRICAL DRAWINGS AND THE TECHNOLOGY DRAWINGS, RECONCILE THROUGH RFI PROCESS.
- MAINTAIN A MINIMUM 12-INCH SEPARATION BETWEEN TECHNOLOGY SIGNAL CONDUITS AND PARALLEL AC POWER CONDUITS. AC POWER CONDUITS CROSSING TECHNOLOGY SIGNAL CONDUITS SHOULD DO SO AT PERPENDICULAR ANGLES WITH A MINIMUM OF 1-INCH CLEARANCE.
- LOCATE TECHNOLOGY INSTALLATIONS A MINIMUM OF 6 FEET AWAY FROM TRANSFORMERS, INVERTERS, AND MOTORS.
- NO LOADS SUCH AS MOTORS, TRANSFORMERS, BALLASTED LIGHTING, OR UTILITY CIRCUITS SHALL BE SERVED BY AC POWER PANELS INTENDED FOR LOW-VOLTAGE TECHNOLOGY EQUIPMENT USE. NOTIFY THE ARCHITECT OR OWNER REPRESENTATIVE IN THE EVENT OF A CONFLICT WITH THE PANELBOARD SCHEDULE.
- BUS BAR SHALL BE BONDED TO BUILDING STRUCTURAL STEEL. REFER TO BONDING RISER DRAWING FOR ADDITIONAL GROUNDING AND BONDING INFORMATION.
- INSTALL BONDING CONDUCTORS WITH AS FEW BENDS AS POSSIBLE. WHEN A BEND IS NECESSARY, THE BEND SHALL BE INSTALLED AS A GRADUAL BEND WITH NO SHARP ANGLES KINKING THE CONDUCTOR.

AUDIOVISUAL INFRASTRUCTURE NOTES:

- AUDIOVISUAL EQUIPMENT AND ELECTRICAL OUTLETS ADJACENT TO AV JUNCTION BOXES SHALL BE SERVED BY 120-VOLT AC CIRCUITS, WHICH ARE DEDICATED SOLELY TO AV USE. ALL CIRCUITS SHALL HAVE DEDICATED GROUNDED CONDUCTORS (I.E. NO COMMON "ROUND-HOUSE NEUTRAL") AND INSULATED EQUIPMENT GROUNDING CONDUCTORS.
- BOND AC POWER DISTRIBUTION PANELS SERVING AUDIOVISUAL SYSTEM SUB-PANELS TO BUILDING SERVICE GROUND WITH CONTINUOUS INSULATED LOW-IMPEDANCE WIRE.
- ALL AV CONDUITS ARE TO BE 3/4-INCH UNLESS OTHERWISE NOTED.
- VERIFY THAT AUDIOVISUAL EQUIPMENT RACKS IN CLOSETS AND MILLWORK ARE PROPERLY VENTILATED.
- UNLESS OTHERWISE PROVIDED IN ARCHITECTURAL, STRUCTURAL, OR AUDIOVISUAL DRAWINGS, PROVIDED TECHNOLOGY DEVICE STRUCTURAL ATTACHMENT DETAIL SHOP DRAWINGS PREPARED, STAMPED, AND SIGNED BY A STRUCTURAL ENGINEER LICENSED IN THE PROJECT JURISDICTION.
- SEE PROJECT SPECIFICATIONS FOR REQUIREMENTS FOR PROJECTION SCREENS, PROJECTOR LIFTS, AND PROJECTOR MOUNTS.
- AV CONDUITS SHALL BE TERMINATED WITH JUNCTION BOXES, PULL-BOXES, OR TERMINAL CABINETS AT BOTH ENDS, UNLESS OTHERWISE NOTED. CONDUITS TERMINATED AS "STUBS" SHOULD BE DE-BURRED AND FITTED WITH BUSHINGS.

TELECOMMUNICATIONS GENERAL NOTES:

- ALL WORK SHALL BE PROVIDED BY DIVISION 27 UNLESS OTHERWISE NOTED.
- GRAPHICAL REPRESENTATION OF HARDWARE AND EQUIPMENT IS FOR INFORMATION AND NOT INTENDED TO SHOW EXACT QUANTITIES. CONTRACTOR SHALL SUPPLY SUFFICIENT QUANTITY TO TERMINATE ALL CABLING. PROVIDE ONE SPARE TERMINATION UNIT (BLOCK, PATCH PANEL, ETC.) IN EACH TELECOM ROOM.
- NETWORK DROPS FOR AUDIOVISUAL AND SECURITY SYSTEMS THAT ROUTE BACK TO A TELECOM ROOM SHALL BE INSTALLED BY STRUCTURED CABLING CONTRACTOR. REFER TO THOSE DISCIPLINE DRAWINGS FOR OTHER INFORMATION.
- TELECOMMUNICATIONS SYSTEM INSTALLATION CONTRACTOR IS RESPONSIBLE FOR ALL DATA CABLING TO BE INSTALLED TO TELECOM ROOMS.
- FOR VOICE CIRCUITS IN ELEVATORS, ROUTE A 1-INCH CONDUIT FROM ELEVATOR EQUIPMENT ROOM TERMINATION LOCATION TO THE NEAREST TELECOM ROOM. COORDINATE WITH ELEVATOR INSTALLER FOR LOCATION OF CONDUIT TERMINATION POINT.
- INSTALL BONDING CONDUCTORS WITH AS FEW BENDS AS POSSIBLE. WHEN A BEND IS NECESSARY, INSTALL AS A GRADUAL BEND WITH NO SHARP ANGLES KINKING THE CONDUCTOR.
- ALL PULL BOXES SHALL BE HINGED AND LATCHABLE.
- REFER TO APPROPRIATE ELECTRICAL OR FIRE ALARM DRAWINGS FOR FIRE PANEL LOCATION. PROVIDE CABLING FOR CONNECTIVITY NECESSARY TO CONNECT COMMUNICATION CIRCUITS.
- FRAME AND FINISH CABLE TRAY PENETRATIONS THROUGH PARTITIONS. INSTALL UL LISTED FIRE STOP SYSTEMS FOR PARTITION PENETRATIONS THAT MAINTAIN FIRE RATINGS OF PARTITIONS. REFER TO DIVISION 07.
- FRAME AND FINISH PARTITION OPENINGS WITH A MINIMUM 2-INCH CLEARANCE AROUND CABLE TRAY OPENINGS. REFER TO DIVISION 09 FOR PARTITION FINISH REQUIREMENTS.
- INSTALL FLAT SMOOTH BOTTOM CABLE TRAY OVER INACCESSIBLE PORTIONS OF CEILINGS AND ABOVE LIGHT FIXTURES. PROVIDE ACCESS HATCHES AT A MAXIMUM OF EVERY 20 FEET OF INACCESSIBLE TRAY STRAIGHT RUNS, AND IN HARD CEILINGS AT ALL 90 DEGREE BENDS IN TRAYS.
- TELECOM ROOM FLOORS SHALL BE ANTI-STATIC TREATED AND SEALED. REFER TO DIVISION 09.
- INSTALL SIX-CELL FABRIC INNERDUCT IN 3-INCH AND 4-INCH CONDUITS. INSTALL THREE-CELL FABRIC INNERDUCT IN 2-INCH CONDUITS. TIE OFF INNERDUCT AT BOTH CONDUIT ENDS. ALL WORK SHALL BE PROVIDED BY DIVISION 27 UNLESS OTHERWISE NOTED.
- MAXIMUM PERMANENT LINK CABLE LENGTH IS 90 METERS. SHOULD CONTRACTOR BELIEVE ANY RUN WILL EXCEED 90 METERS, SUBMIT AN RFI FOR COORDINATION WITH TELECOMMUNICATIONS DESIGN CONSULTANT TO DETERMINE OPTIMUM ROUTING PRIOR TO INSTALLATION OF CABLE.
- CABLE WIRELESS ACCESS POINTS WITH TWO CATEGORY-6A RATED CABLES, UNLESS OTHERWISE NOTED.
- COORDINATE WITH FURNITURE MANUFACTURER TO CLARIFY CABLE TERMINATION LOCATIONS. IF CABLES TERMINATE IN FURNITURE, PROVIDE POKE-THROUGHS OR FLOOR BOXES AS PASS-THROUGHS, AS APPROPRIATE, TO CABLE MANAGEMENT IN FURNITURE. PROTECT CABLING WITH LIQUID TIGHT FLEXIBLE CONDUIT WHIPS INTO FURNITURE WHERE CABLING WOULD OTHERWISE BE EXPOSED.
- UNLESS OTHERWISE PROVIDED IN ARCHITECTURAL, STRUCTURAL, OR TELECOM DRAWINGS, PROVIDE TECHNOLOGY DEVICE STRUCTURAL ATTACHMENT DETAIL SHOP DRAWINGS PREPARED, STAMPED, AND SIGNED BY A STRUCTURAL ENGINEER LICENSED IN THE PROJECT JURISDICTION.

SHEET INDEX

| SHEET NUMBER | SHEET NAME |
|-----------------|------------------------------------|
| T0.00.2 | TECHNOLOGY NOTES AND ABBREVIATIONS |
| T0.01.2 | TECHNOLOGY SYMBOLS AND LEGENDS |
| T0.10.2 | SITE PLAN |
| T1.01.2 | EXPANSION ENLARGED PLANS |
| T3.00.2 | TELECOM EQUIPMENT ROOMS |
| T6.01.2 | TELECOM RISER DIAGRAMS & SCHEDULE |
| T7.01.2 | DETAILS - SECURITY |
| T7.02.2 | DETAILS - TELECOM |
| T7.03.2 | DETAILS - TELECOM |
| T7.04.2 | DETAILS - AUDIOVISUAL |
| T7.05.2 | AV JUNCTION BOX SCHEDULE |
| Grand total: 11 | |

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PROJECT TITLE

CONTRA COSTA CCD D-4002 DVC SAN RAMON CAMPUS EXPANSION & RENOVATION

1690 Watermill Rd.
San Ramon, CA 94582

RECORD SET:

THESE DRAWINGS HAVE BEEN PREPARED FROM ADDENDUMS, CCD'S, ASIS AND SELECT RFI'S OF SIGNIFICANCE THAT ARE BASED ON DESIGN TEAM'S INFORMATION. THE GENERAL CONTRACTOR'S AS-BUILT DRAWINGS WITH REDLINES OF FIELD CONDITIONS WERE NOT MADE AVAILABLE TO DESIGN TEAM. ONLY A SELECT FEW AS-BUILTS WERE SUBMITTED.

ISSUE TITLE

INCREMENT 2 RECORD DRAWINGS

ISSUE DATE 04/06/2022

NOLL & TAM JOB NUMBER 21630

REVISIONS

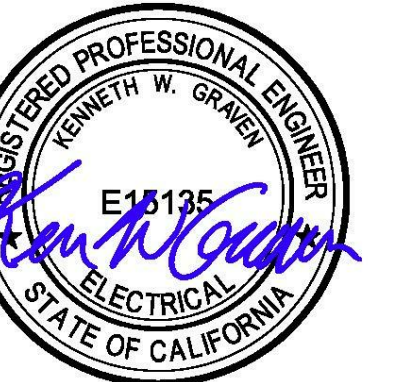
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SHEET TITLE

TECHNOLOGY NOTES AND ABBREVIATIONS

SHEET NUMBER

T0.00.2

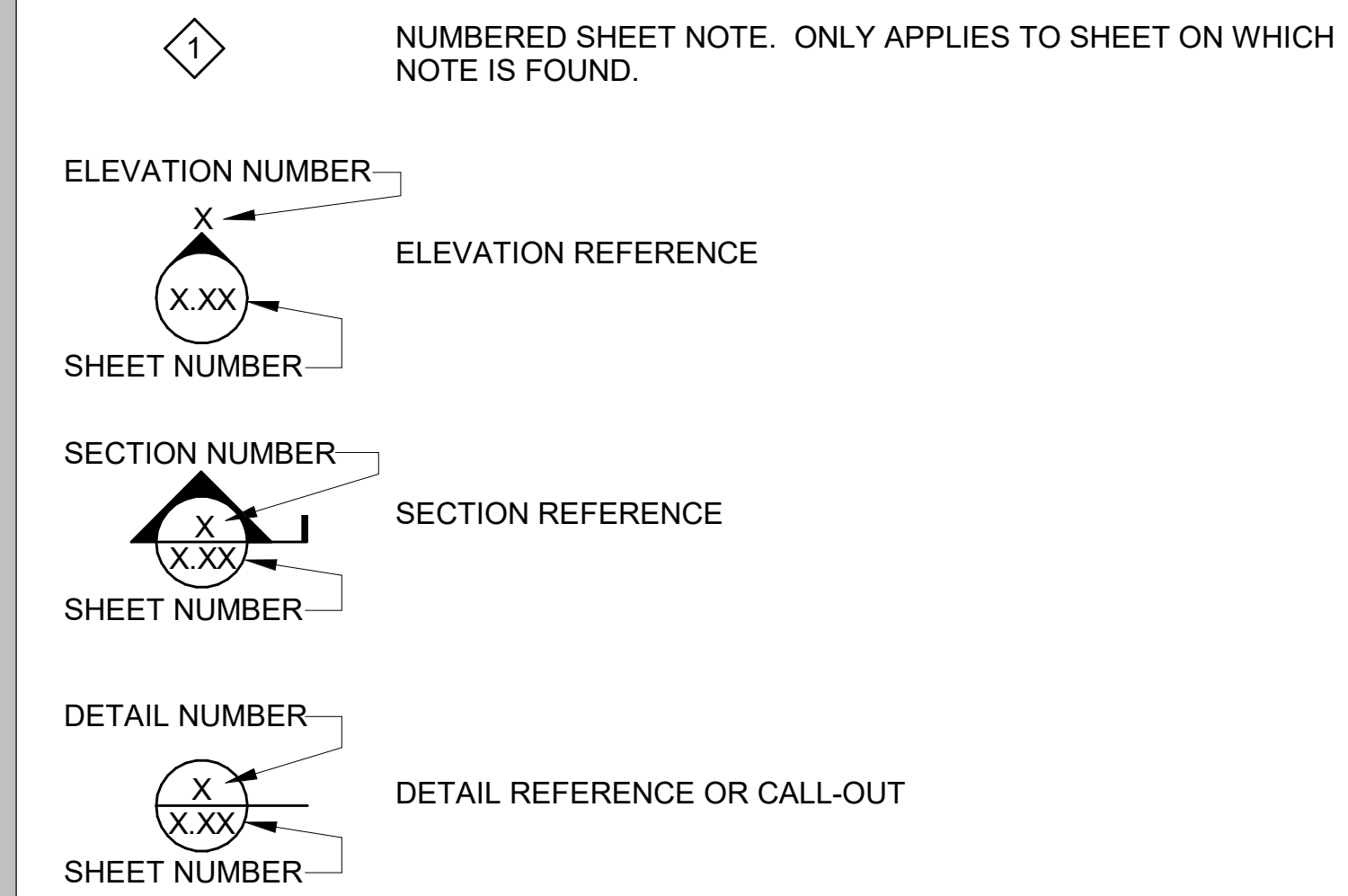


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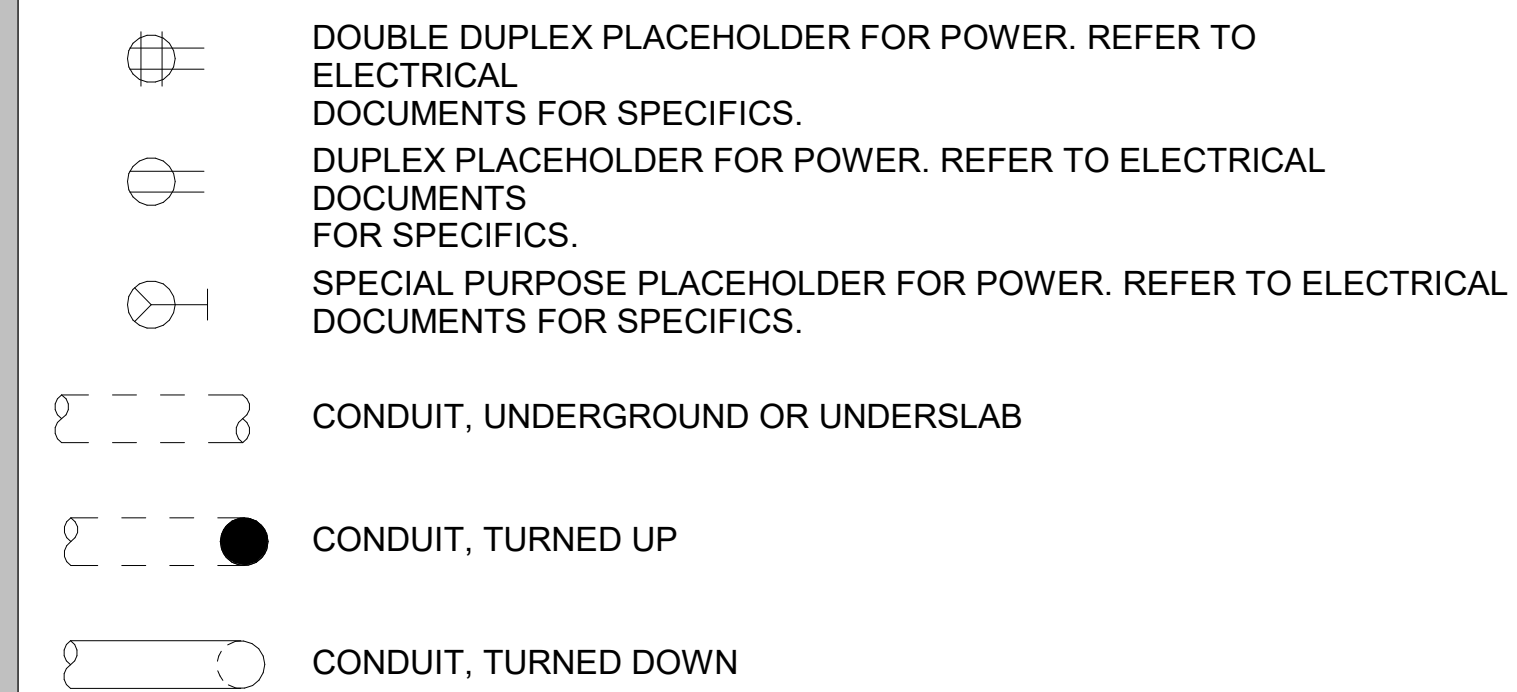


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SHEET REFERENCE CONVENTIONS:



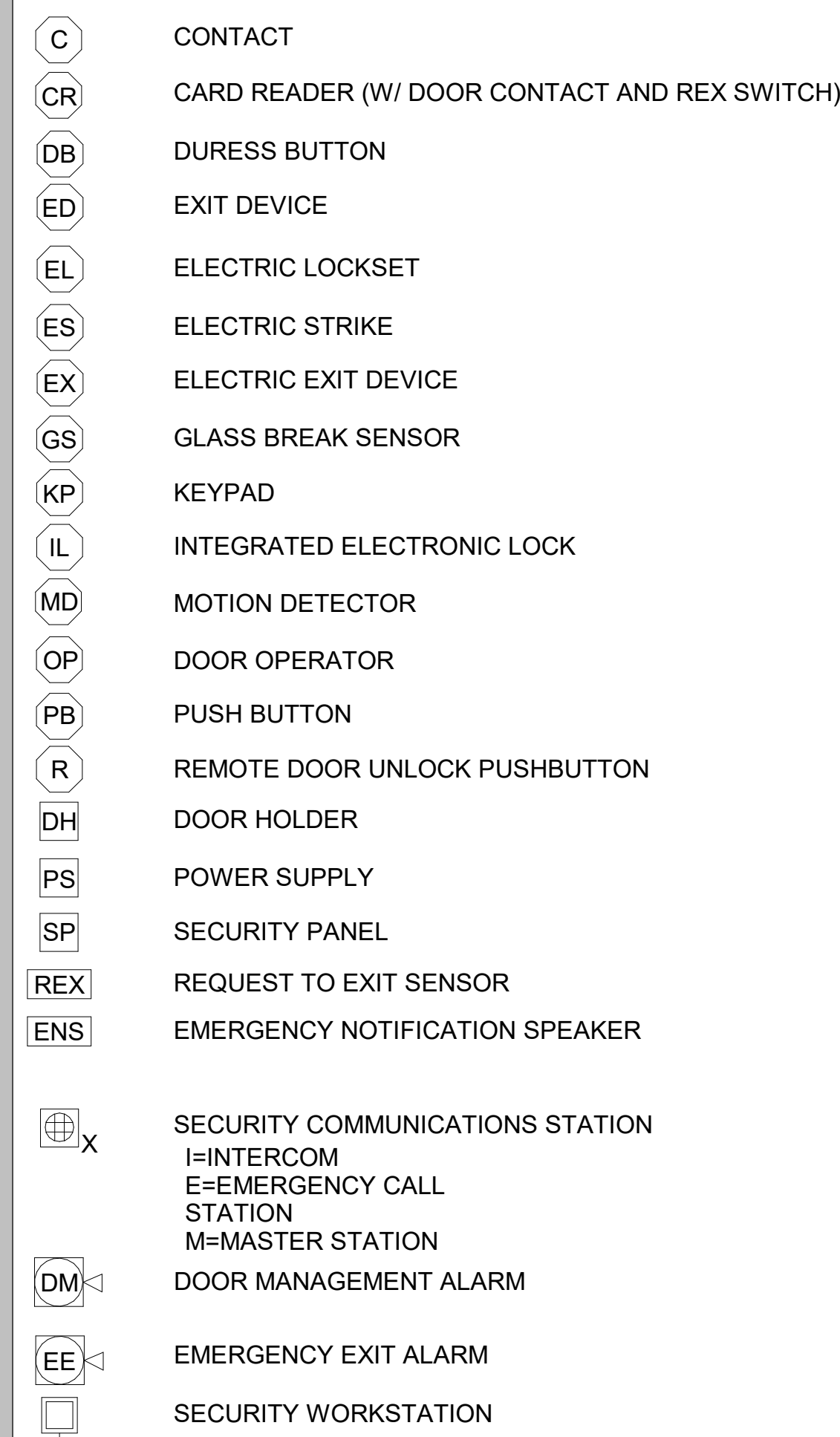
ELECTRICAL POWER AND CONDUIT SYMBOLS:



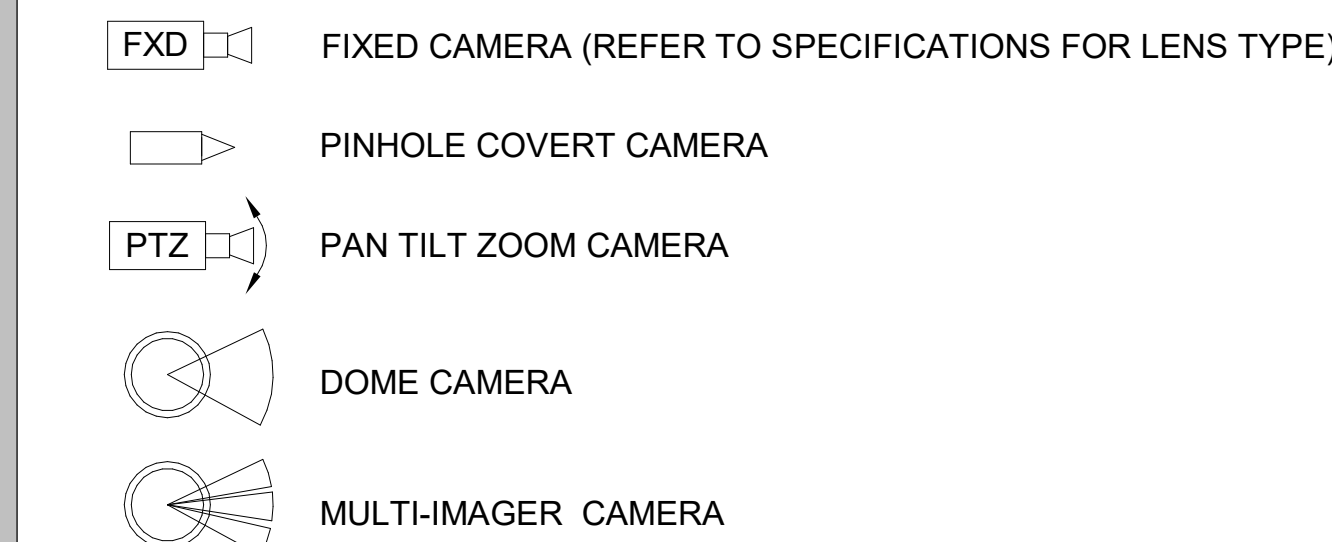
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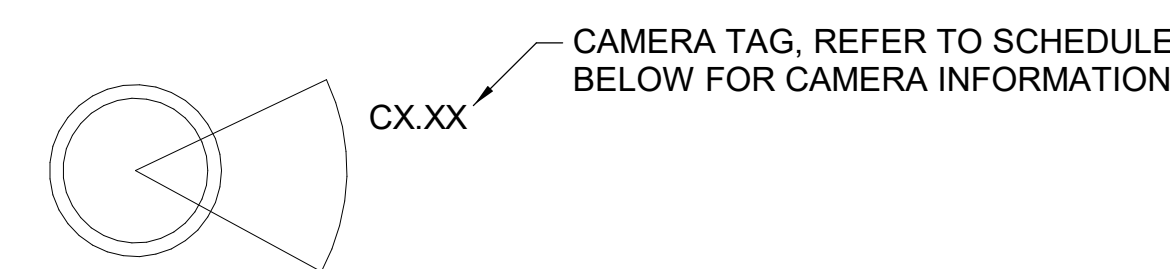
SECURITY SYMBOLS:



CAMERA SYMBOLS:



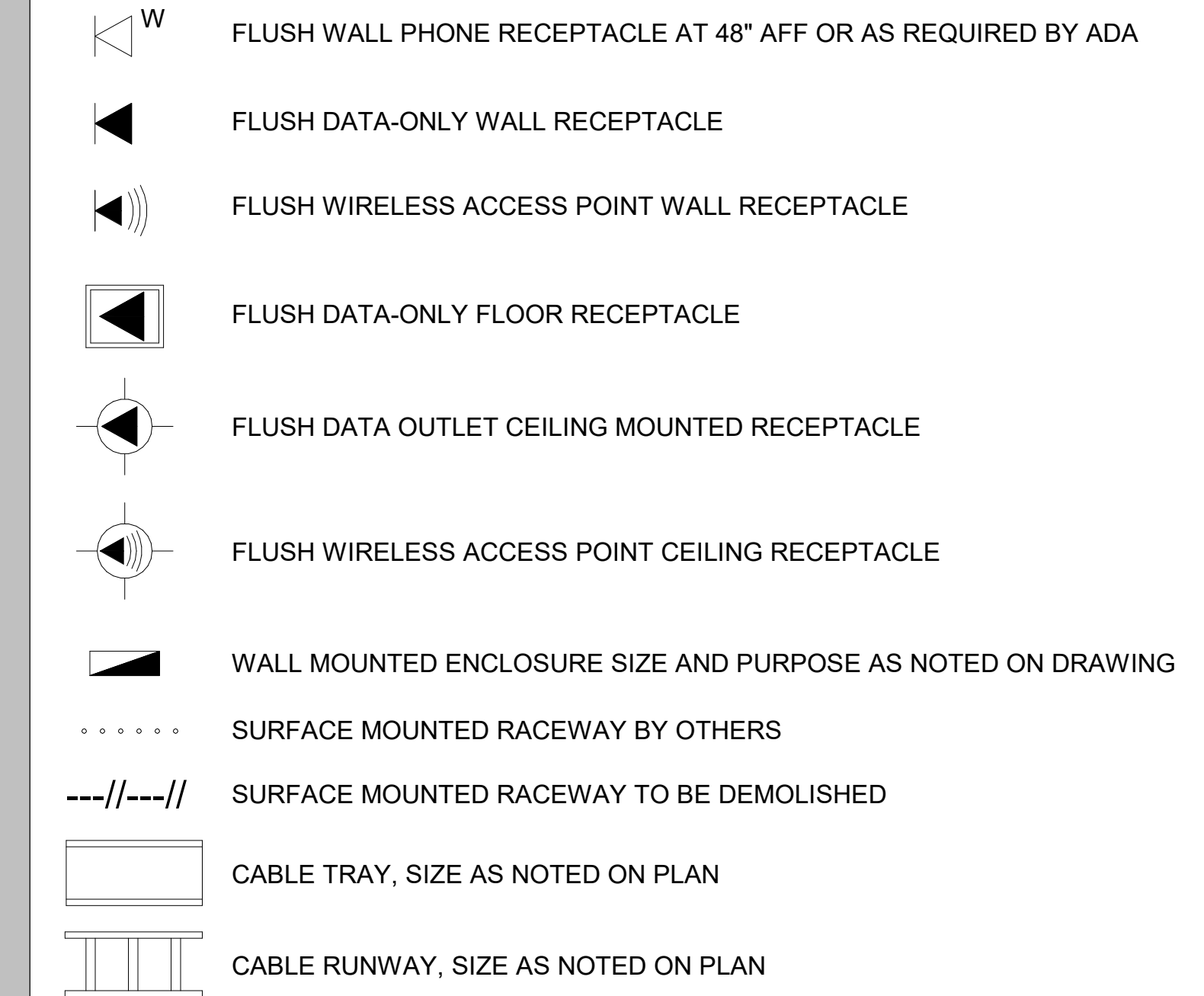
CAMERA SYMBOLS LEGEND:



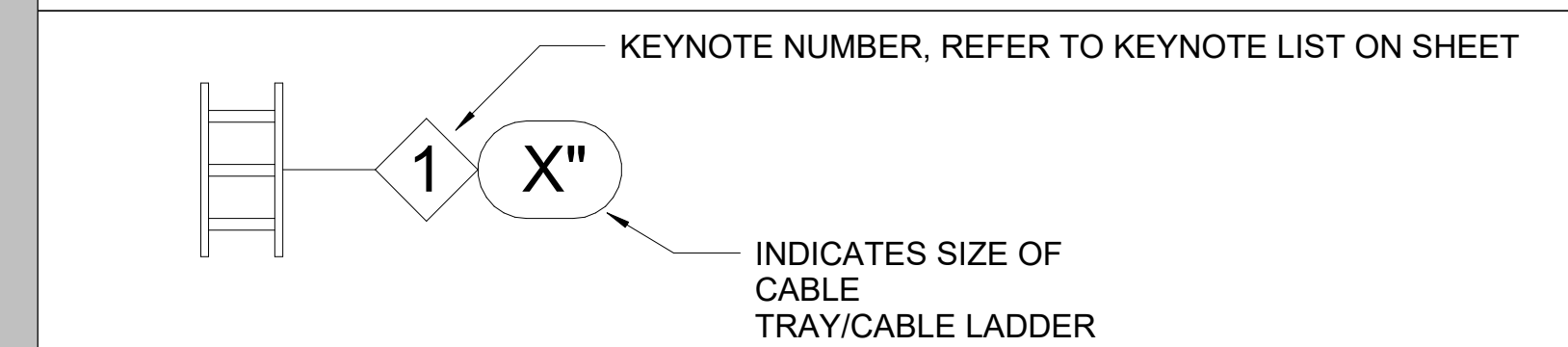
SECURITY CAMERA SCHEDULE

| TAG | FOV | Family | Resolution | Mounting |
|-------|---------|---------------|------------|----------|
| C2.1 | 90.00° | Camera - Dome | 5MP | WALL |
| C2.2 | 90.00° | Camera - Dome | 5MP | WALL |
| C2.3 | 270.00° | Camera - Dome | 5MP | CEILING |
| C2.4 | 270.00° | Camera - Dome | 5MP | CEILING |
| C2.5 | 180.00° | Camera - Dome | 5MP | WALL |
| C2.6 | 90.00° | Camera - Dome | 5MP | WALL |
| C2.7 | 90.00° | Camera - Dome | 5MP | WALL |
| C2.8 | 90.00° | Camera - Dome | 5MP | WALL |
| C2.9 | 90.00° | Camera - Dome | 5MP | WALL |
| C2.9 | 45.00° | Camera - Dome | 5MP | WALL |
| C2.10 | 90.00° | Camera - Dome | 5MP | WALL |
| C2.11 | 270.00° | Camera - Dome | 5MP | CEILING |
| C2.12 | 90.00° | Camera - Dome | 5MP | WALL |
| C2.13 | 270.00° | Camera - Dome | 5MP | CEILING |
| C2.14 | 270.00° | Camera - Dome | 5MP | WALL |
| C2.15 | 270.00° | Camera - Dome | 5MP | WALL |
| C2.16 | 90.00° | Camera - Dome | 5MP | WALL |
| C2.17 | 90.00° | Camera - Dome | 5MP | WALL |
| C2.18 | 45.00° | Camera - Dome | 5MP | WALL |
| C2.19 | 45.00° | Camera - Dome | 5MP | WALL |
| C2.20 | 45.00° | Camera - Dome | 5MP | CEILING |
| C2.21 | 45.00° | Camera - Dome | 5MP | WALL |
| C2.22 | 90.00° | Camera - Dome | 5MP | WALL |
| C2.23 | 180.00° | Camera - Dome | 5MP | WALL |
| C2.23 | 180.00° | Camera - Dome | 5MP | WALL |
| C2.24 | 60.00° | Camera - Dome | 5MP | WALL |
| C2.25 | 180.00° | Camera - Dome | 5MP | WALL |

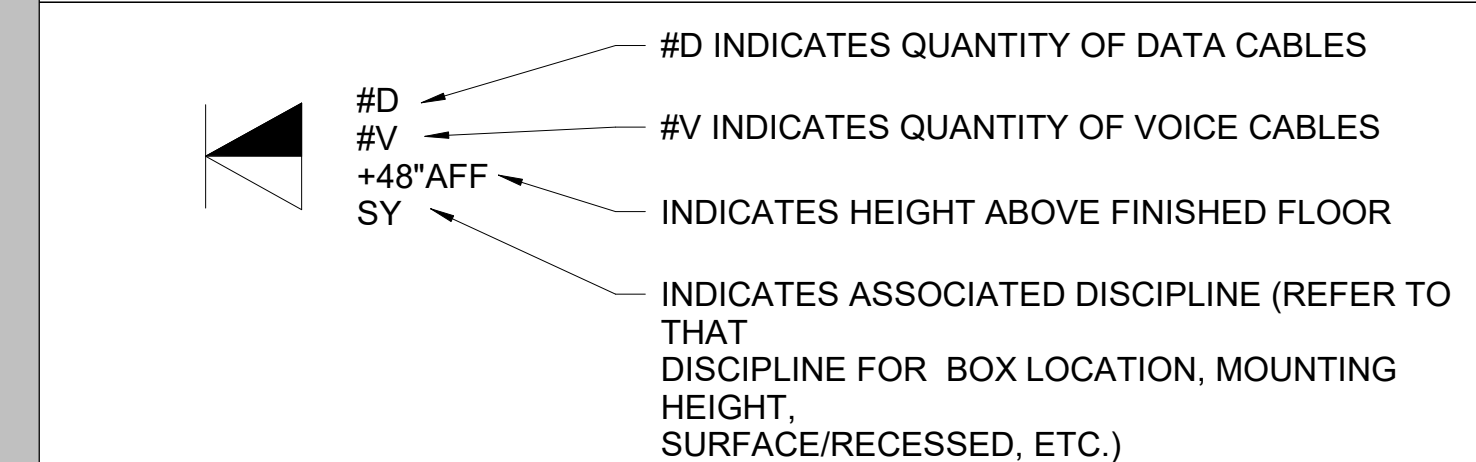
TELECOMMUNICATION SYMBOLS:



KEYNOTE LEGEND:



SYMBOL LEGEND:

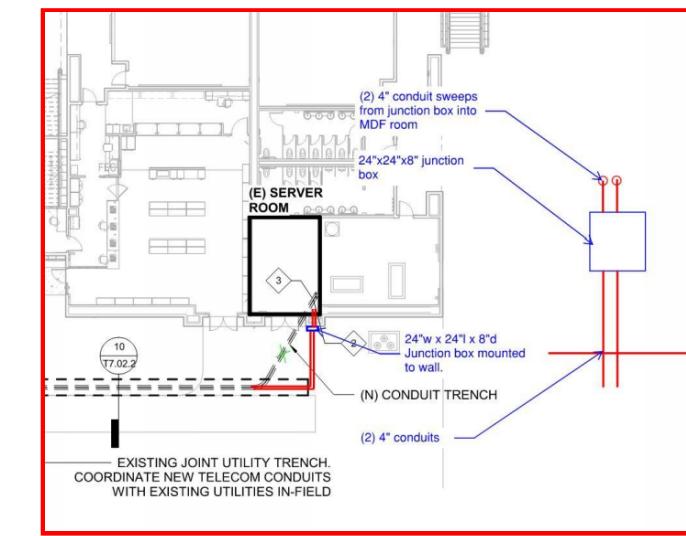


TELECOMMUNICATION RESPONSIBILITY MATRIX:

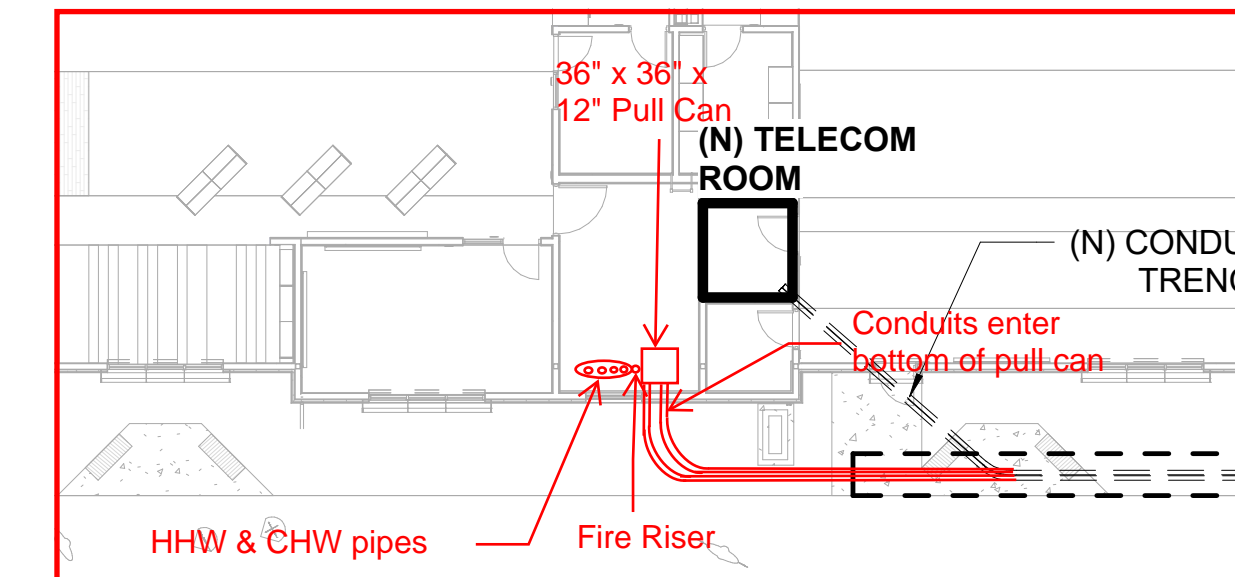
| SCOPE ITEM | CFCI | CFOI | OFOI | OFCI |
|--|------|------|------|------|
| TELECOM ROOM FIT-OUT | | | | |
| RACKS/CABINETS | X | | | |
| VERTICAL CABLE MANAGERS | X | | | |
| HORIZONTAL CABLE MANAGERS | X | | | |
| PATCH PANELS | X | | | |
| NETWORK SWITCHES | | | X | |
| UPS | | | X | |
| LADDER RACKING | X | | | |
| PLYWOOD | X | | | |
| GROUNDING BUSBAR | X | | | |
| POWER | X | | | |
| LIGHTING | X | | | |
| PATHWAYS | | | | |
| CORRIDOR CABLE TRAY | X | | | |
| CONDUIT & BACKBOXES | X | | | |
| UNDERGROUND CONDUIT | X | | | |
| HORIZONTAL CABLING, JACKS, WALL PLATES | X | | | |
| WIRELESS ACCESS POINT CABLING | X | | | |
| WIRELESS ACCESS POINT DEVICES | | | X | |
| INTER-BUILDING COPPER AND/OR FIBER CABLING | X | | | |
| INTRA-BUILDING BACKBONE (RISER) CABLING | X | | | |
| BUILDING ENTRANCE TERMINALS | X | | | |

| SHEET NOTES | |
|-------------|---|
| A. | PROTECT EXISTING UTILITY CONDUITS IN-PLACE. COORDINATE NEW UTILITY SERVICE CONDUITS WITH EXISTING CONDUIT TRENCHES FOR EXACT PLACEMENT IN-FIELD |

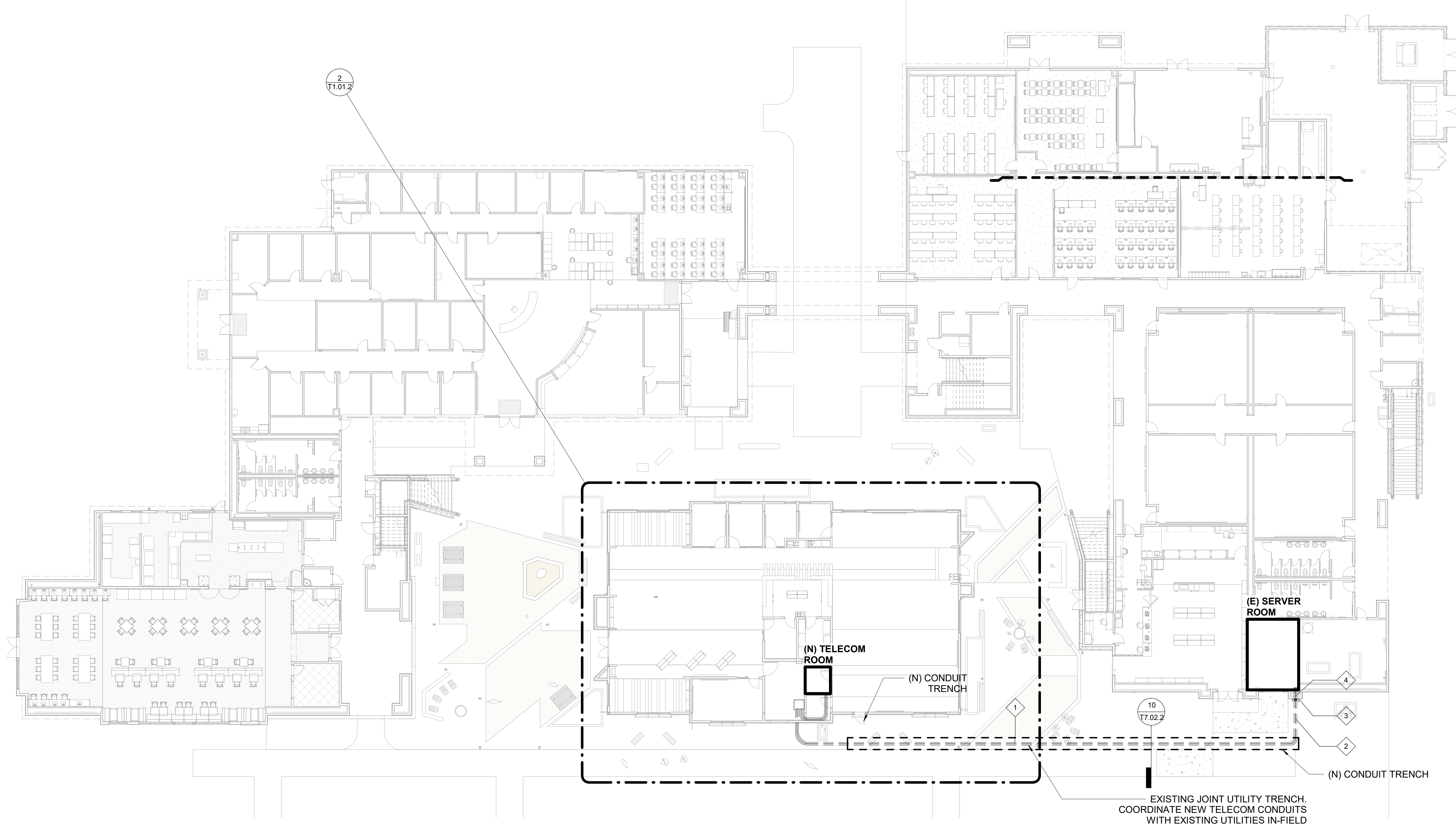
| KEYNOTE LEGEND | |
|----------------|--|
| # | Keynote |
| 1 | (2) 4" UNDERGROUND CONDUITS w/ FABRIC INNERDUCT FROM EXISTING MDF TO NEW TUTORIAL LIBRARY TELECOMMUNICATIONS CLOSET ROUTED ADJACENT TO EXISTING JOINT UTILITY TRENCH |
| 2 | (2) 4" CONDUITS FROM WALL-MOUNTED JUNCTION BOX TO NEW TELECOM ROOM |
| 3 | 24"W x 24"L x 8"D WALL-MOUNTED JUNCTION BOX |
| 4 | (2) 4" CONDUIT SWEEPS FROM WALL-MOUNTED JUNCTION BOX TO MDF ROOM |



RFI #24 - REVISED PROPOSED MOUNTING AND ROUTING



RFI #200 - REROUTING OF DATA CONDUITS COMING INTO LLRC



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ISSUE DATE 04/06/2022

NOLL & TAM JOB NUMBER 21630

REVISIONS

| # | DATE | DESCRIPTION |
|---|------|-------------|
| | | |

SHEET TITLE

SITE PLAN

SHEET NUMBER

T0.10.2

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INCREMENT 2 RECORD DRAWINGS

ISSUE DATE 04/06/2022

NOLL & TAM JOB NUMBER 21630

REVISIONS
DATE DESCRIPTION

SHEET TITLE

AV JUNCTION BOX SCHEDULE

SHEET NUMBER

T7.05.2

AV JUNCTION BOX SCHEDULE

| TAG | PURPOSE | TYPE | SIZE | HEIGHT | LOCATION | MOUNTING | RING | COVER | DATA REQUIREMENTS | POWER REQUIREMENTS | COMMENTS |
|------|-------------------------------|------|---------------|---------|----------|----------|------|-------|----------------------------|---------------------------|----------|
| AV | AV INPUT LOCATION | | 2-GANG | 18" AFF | WALL | FLUSH | | | (2) ADJACENT NETWORK DROP | ADJACENT AC DUPLEX | |
| CP-2 | AV CONTROLLER | | 2-GANG | | WALL | | | | | | |
| DP-2 | DISPLAY PANEL | | 4-GANG | 84" AFF | WALL | FLUSH | | | (2) ADJACENT NETWORK DROP | ADJACENT AC DUPLEX | |
| ENS | EMERGENCY NOTIFICATION SYSTEM | | 2-GANG | | | | | | | | |
| FB | FLOOR BOX AV INPUT LOCATION | | FSR FL-540P-4 | | FLOOR | | | | (4) INTERNAL NETWORK DROPS | INTERNAL AC DOUBLE DUPLEX | |
| VP | VIDEO PROJECTOR | | 2-GANG | | | FLUSH | | | (2) ADJACENT NETWORK DROP | ADJACENT AC DUPLEX | |

VP: 2
Grand total: 17

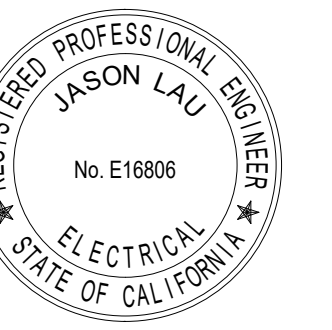
SHEET KEYNOTES

1 PROVIDE 2 INCH UNDERGROUND CONDUIT AND CONNECTION TO FACP IN MAIN MDF. INSTALL CONDUIT IN COMMON TRENCH WITH TELECOMMUNICATION CONDUITS. VERIFY EXACT CONDUIT ROUTING WITH TELECOMMUNICATIONS DESIGN.

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PROJECT 2016-0538
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PROJECT TITLE

**CONTRA COSTA
CCD
D-4002
DVC SAN RAMON
CAMPUS EXPANSION &
RENOVATION**

1690 Watermill Rd.
San Ramon, CA 94582

RECORD SET:

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ISSUE TITLE

INCREMENT 2

ISSUE DATE 08/22/2023

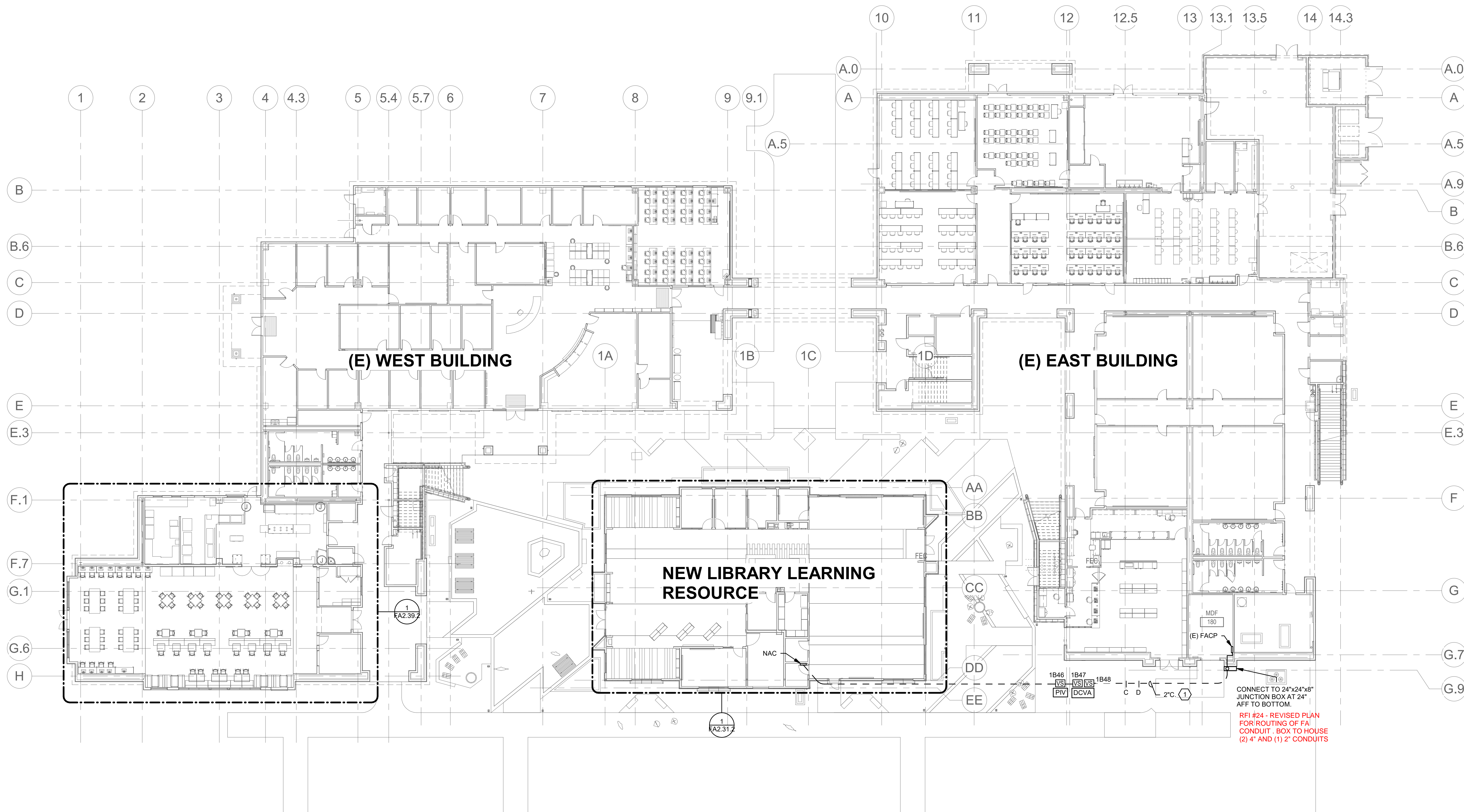
NOLL & TAM JOB NUMBER 21630

REVISIONS
NO. | DATE | DESCRIPTION

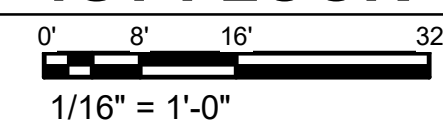
SHEET TITLE
**1ST FLOOR OVERALL
PLAN - FIRE ALARM**

SHEET NUMBER

FA2.30A.2



1 1ST FLOOR OVERALL PLAN - FIRE ALARM



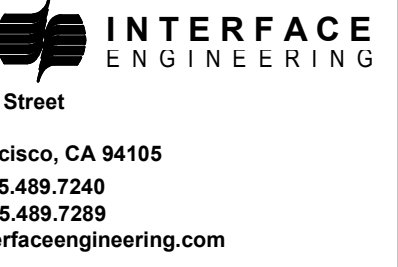
NOLL & TAM ARCHITECTS

729 Heinz Avenue
Berkeley, CA 94710
tel 510.542.2200
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ARCHITECTS SEAL



PROJECT 2016-0538
CONTACT Joe Ripp



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INCREMENT 2

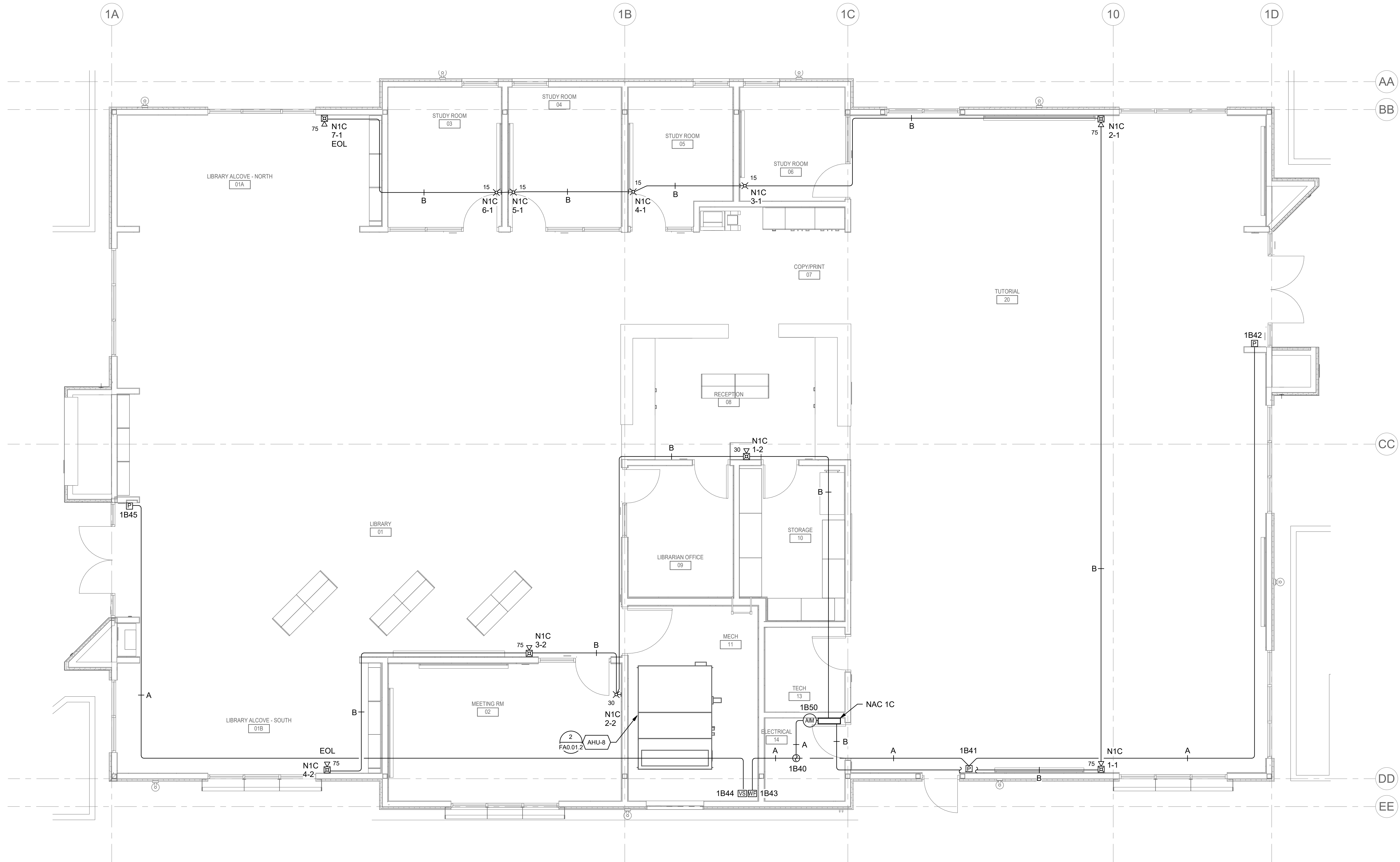
ISSUE DATE 08/22/2023

NOLL & TAM JOB NUMBER 21630

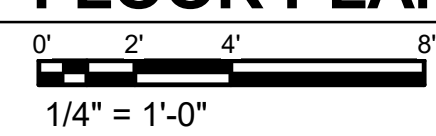
| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
| | | |

SHEET TITLE
**FLOOR PLAN -
LIBRARY LEARNING
RESOURCE CENTER -
FIRE ALARM**

SHEET NUMBER
FA2.31.2



1 FLOOR PLAN - LIBRARY LEARNING RESOURCE CENTER - FIRE ALARM



SHEET KEYNOTES

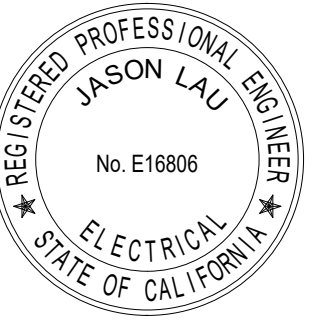
- 1 FULL EXISTING CABLE BACK TO NEAREST APPLIANCE OR JUNCTION BOX AND CUT EXISTING CONDUIT. CONDUIT TO BE EXTENDED AND NEW WIRING PULLED TO NEW APPLIANCES INSTALLED IN NEW WORK PHASE.

APPROVALS

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ISSUE DATE 08/22/2023

NOLL & TAM JOB NUMBER 21630

REVISIONS

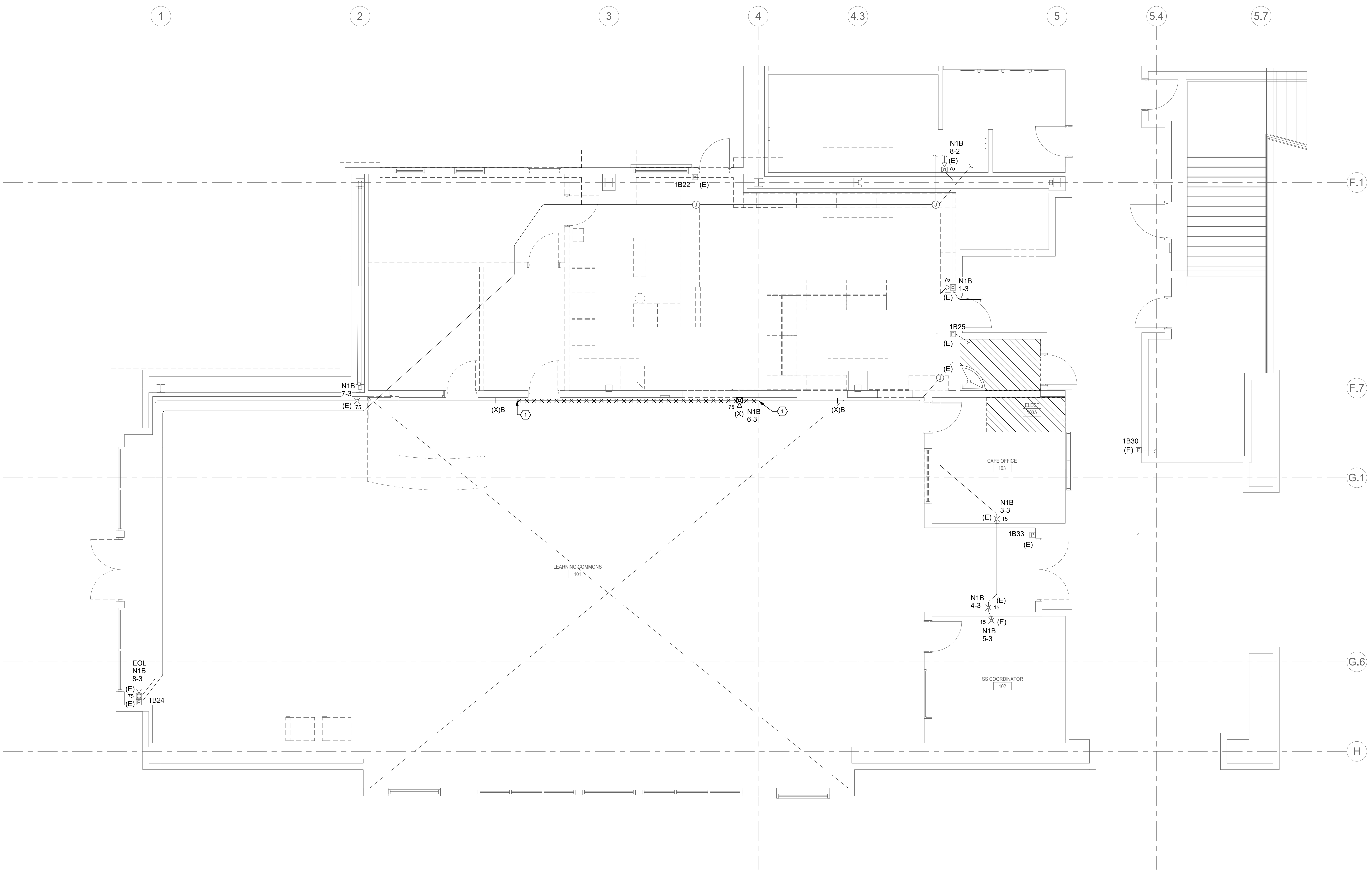
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SHEET TITLE

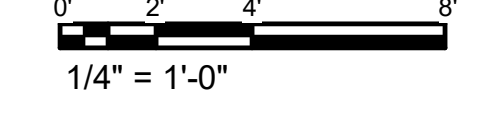
**DEMO - 1ST FLOOR - WEST - (E)
BOOKSTORE &
LEARNING COMMONS
- FIRE ALARM**

SHEET NUMBER

FA2.38.2



1 DEMO - 1ST FLOOR - WEST - (E) BOOKSTORE & LEARNING COMMONS - FIRE ALARM



SHEET KEYNOTES

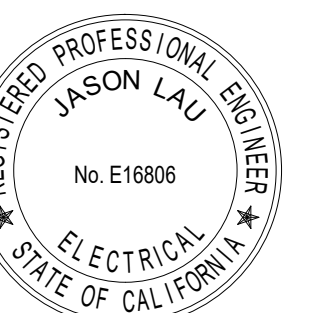
- 1 UP TO MAU-1 DUCT MOUNTED SMOKE DETECTOR.
- 2 ADDRESSABLE MONITOR MODULE FOR KITCHEN HOOD SUPPRESSION SYSTEM.

APPROVALS

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INCREMENT 2

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NOLL & TAM JOB NUMBER 21630

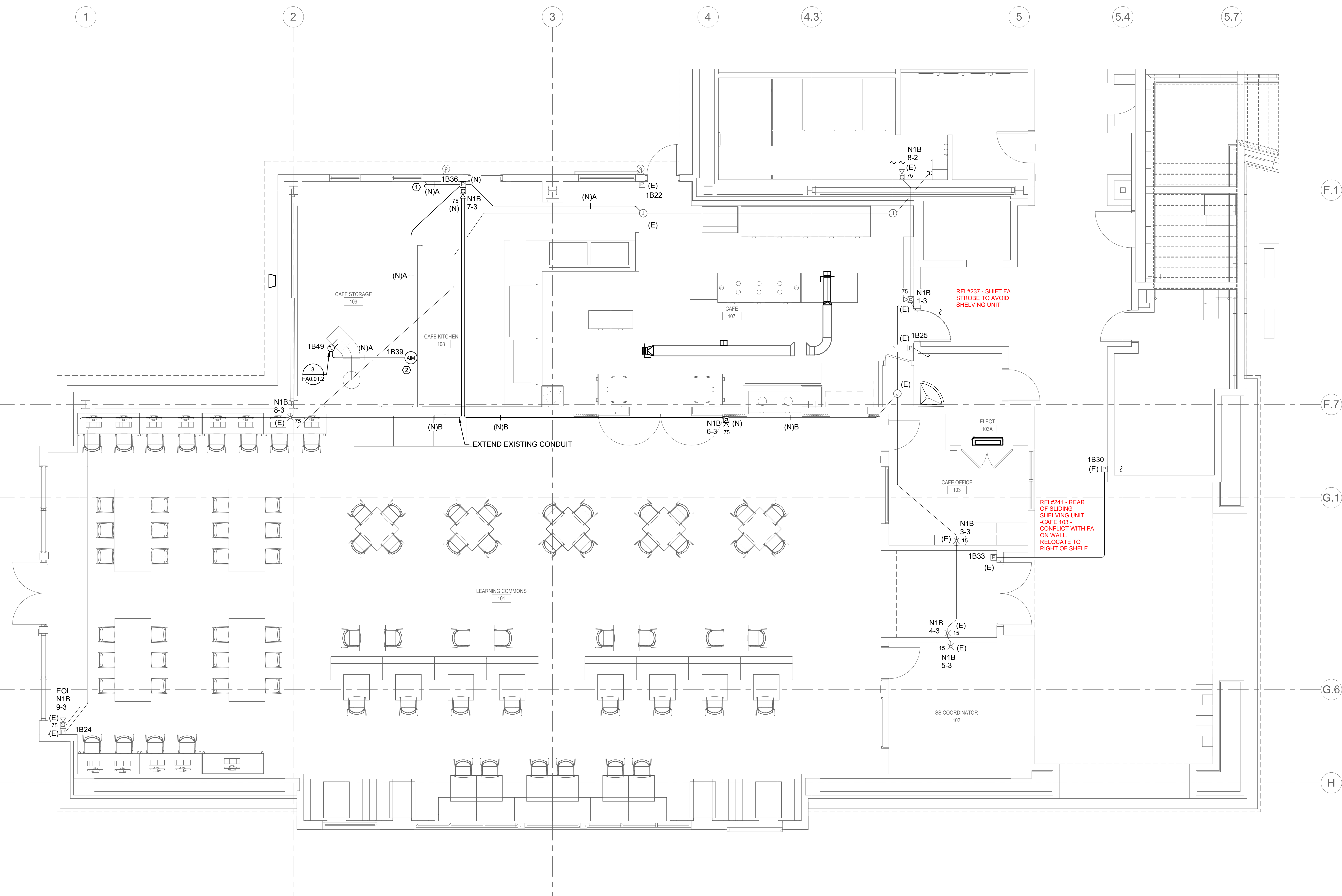
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SHEET TITLE

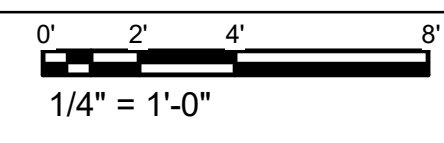
**NEW - 1ST FLOOR -
WEST - CAFÉ &
LEARNING COMMONS
- FIRE ALARM**

SHEET NUMBER

FA2.39.2



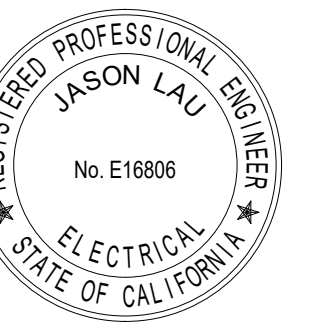
1 NEW - 1ST FLOOR - WEST - CAFÉ & LEARNING COMMONS - FIRE ALARM



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INCREMENT 2

ISSUE DATE **08/22/2023**

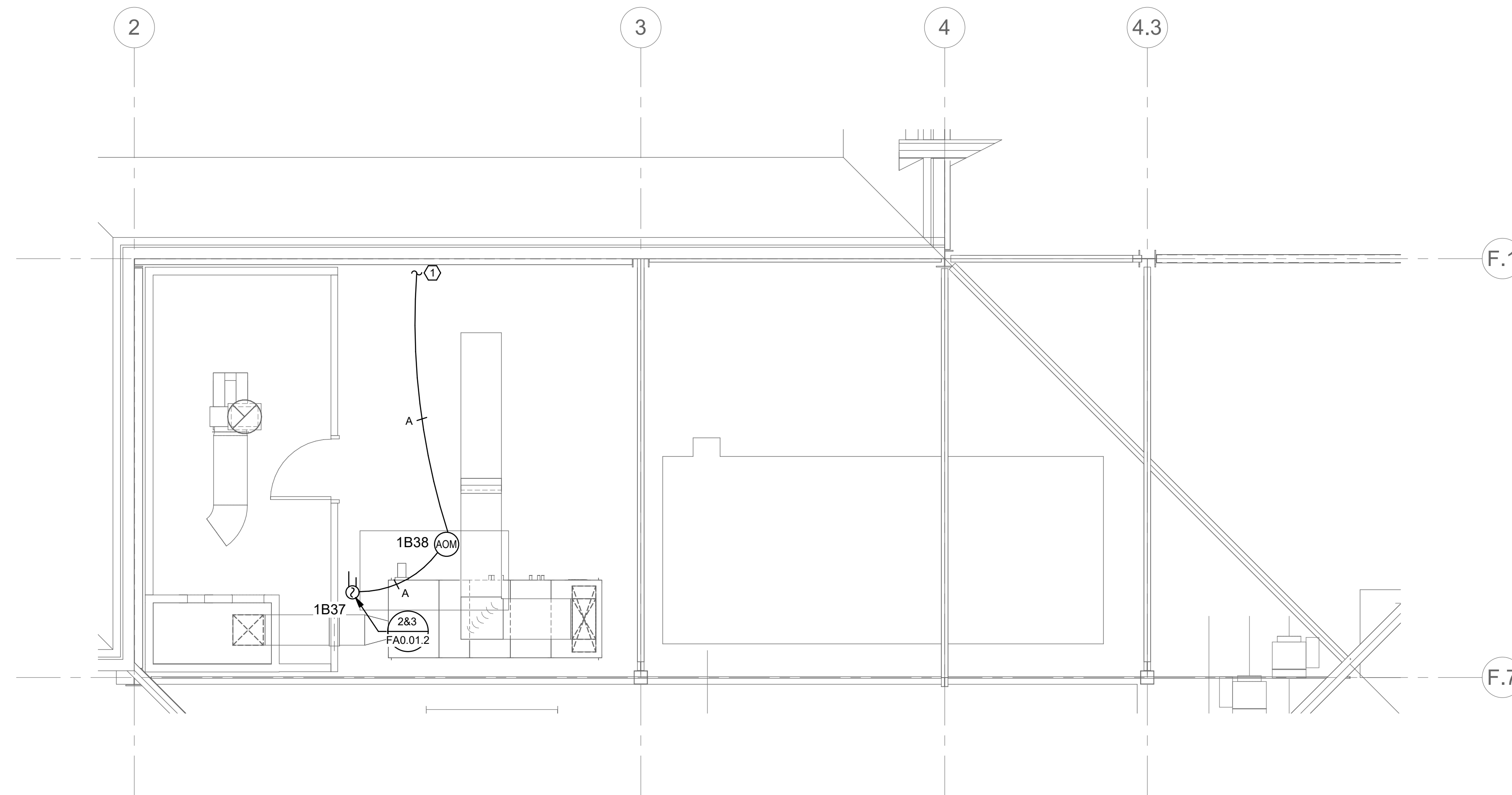
NOLL & TAM JOB NUMBER **21630**

REVISIONS

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
| | | |

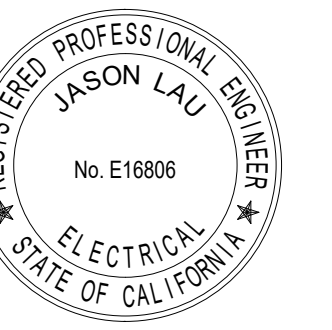
SHEET TITLE
**MECHANICAL
PLATFORM PLAN -
WEST - FIRE ALARM**

SHEET NUMBER
FA2.40.2



1 MECHANICAL PLATFORM PLAN - WEST- FIRE ALARM

0' 2' 4' 8'
1/4" = 1'-0"



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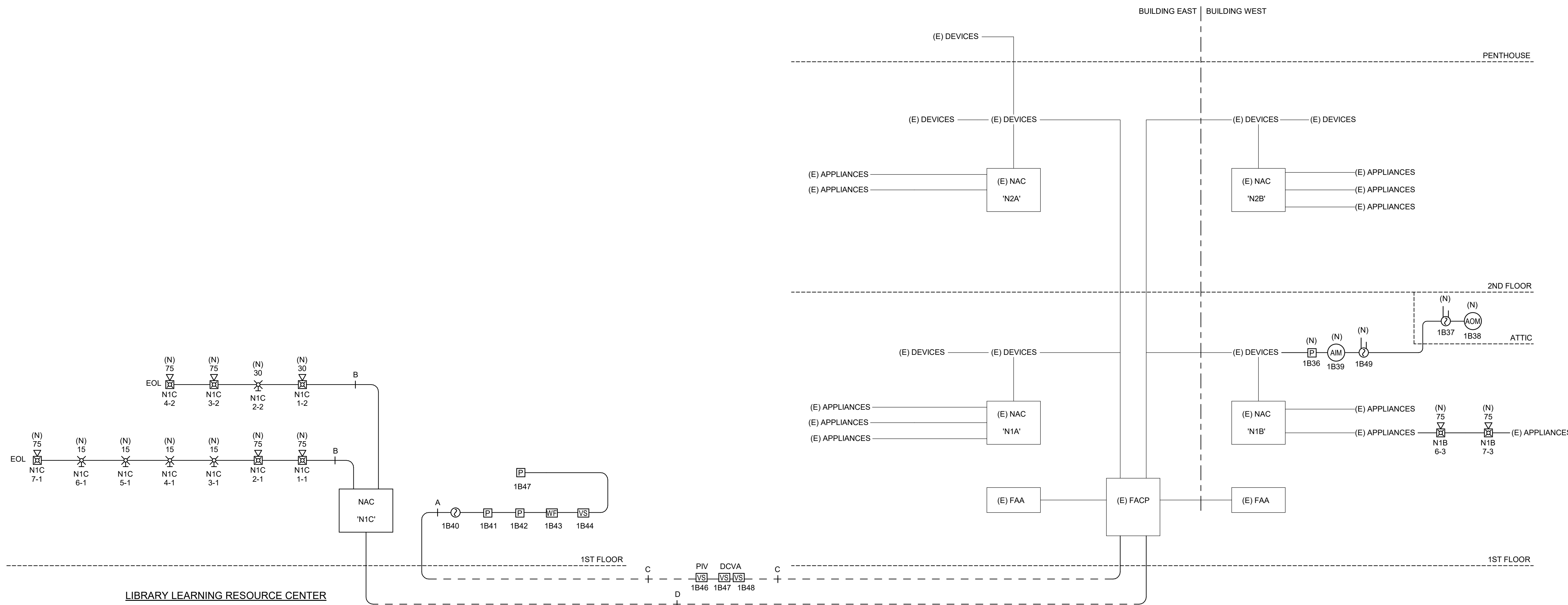
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INCREMENT 2

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
| | | |



1 ONE-LINE DIAGRAM - FIRE ALARM Inc 2

NO SCALE

| EXISTING MAIN MXL PANEL | | | | | | | | |
|----------------------------------|--------------------------------------|----------------------------|----------------|-------------------------------|-------------------|---|-------------------|-------------------|
| Summary | Requirement for standby current: | 24 | Hours | Design Supervisor Current = | 23.76 Amp-Hr | | | |
| | Requirement for alarm current: | 5 | Minutes | Design Alarm Current = | 0.28 Amp-Hr | | | |
| | Spare Battery Capacity: | 20 | % | Additional Capacity Current = | 4.81 Amp-Hr | | | |
| | Initiating Devices Assumed In Alarm: | 10 | % | Battery AH requirement = | 28.85 Amp-Hr | | | |
| Battery Size: | | | | | 36.00 Amp-Hr | | | |
| Supervisory Current | Module Part Number & Description | Quantity | Module Current | EOL Current | Device Current | Total Standby 24 VDC Module Current | | |
| | MMB-1/2/3 Main Control Panel | 1 | 175mA | | | 0.175 Amps | | |
| | NAC Circuits | | | 12mA per NAC | | 0.000 Amps | | |
| | IAC Devices | | | | 1.1mA per device | 0.000 Amps | | |
| | PSR-1 Remote Power Supply | 4 | 70mA | 0 | 0 | 0.280 Amps | | |
| | MKB-2 Main Keyboard | 1 | 5mA | 0 | 0 | 0.005 Amps | | |
| | RCC-1/1F Remote Command Center | 2 | 75mA | 0 | 0 | 0.150 Amps | | |
| | CSM-4 Controllable Signal Module | 1 | 10mA | 0 | 0 | 0.010 Amps | | |
| | ALD-2i Analog Loop Driver | 2 | 12mA | 12mA | 0 | 0.024 Amps | | |
| | IAC Devices | 251 | 105mA | 0 | 1.1 mA per Device | 0.000 Amps | | |
| NIM-1W Network Interface Module | 1 | 70mA | 0 | NA | 0.070 Amps | | | |
| Total Supervisory Current | | | | | 0.990 Amps | | | |
| Alarm Current | Module Part Number & Description | | Quantity | 24 VDC Current | | 5 VDC Current | | |
| | | | | Active / Module | Total | Active / Module | Total | |
| | MMB-1/2/3 | Main Control Panel | 1 | 0.175 | | 500mA Provided | | |
| | PSR-1 | Remote Power Supply | 4 | 70mA | | 800mA Provided | | |
| | MKB-2 | Main Keyboard | 1 | 0 | 0.000 Amps | 15mA | 0.015 Amps | |
| | RCC-1/1F | Remote Command Center | 2 | 75mA | 0.150 Amps | 0 | 0.000 Amps | |
| | CSM-4 | Controllable Signal Module | 1 | 34mA + 1.5A / circuit | 3.034 Amps | 30mA | 0.030 Amps | |
| | NIM-1W | Network Interface Module | 1 | 0 | 0.000 Amps | 160mA | 0.160 Amps | |
| | 24 VDC Power Supply Needed | | | | MPS-6 | 24VDC Total | 3.184 Amps | 5VDC Total |
| | | | | | | 24 VDC & 5 VDC Total Panel Alarm Current | 3.389 Amps | |

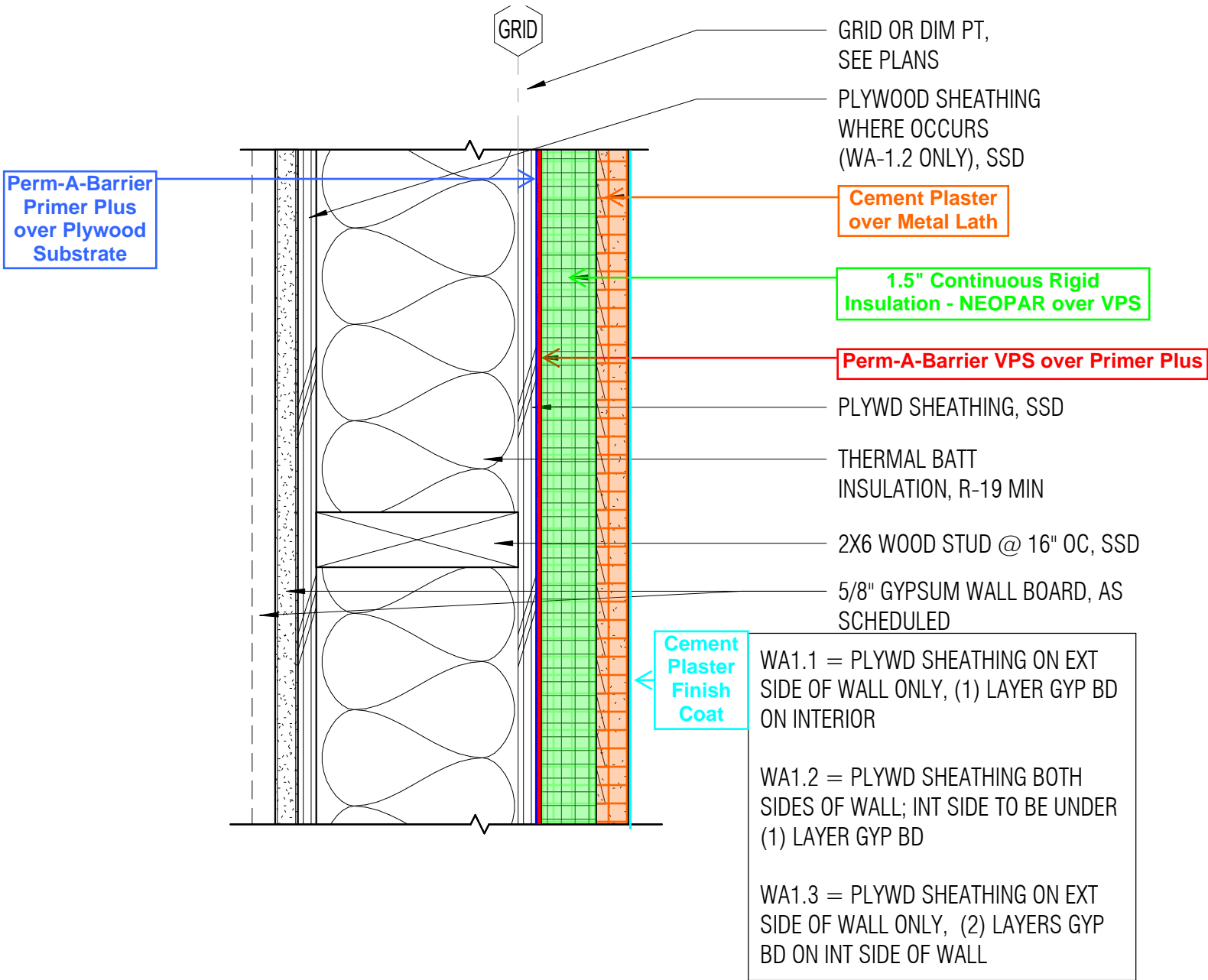
| EXISTING POWER SUPPLY - N1B | | | |
|-----------------------------------|----------|---------------------|-------------------|
| DEVICE | QUANTITY | STANDBY CURRENT (A) | ALARM CURRENT (A) |
| CONTROL BOARD | 1 | | 0.240 |
| NOTIFICATION APPLIANCES | | | |
| NA1 | 10 | 1.155 | |
| NA2 | 8 | 0.860 | |
| NA3 | 9 | 0.972 | |
| TOTAL AMPERAGE | | 0.092 | 3.227 |
| STANDBY HOURS (h) | | 24 | 3.227 |
| ALARM OPERATION (h) | | | 0.0833 |
| ALARM AMPS (A) | | | 0.259 |
| TOTAL AMP HOURS (Ah) | | | 2.477 |
| BATTERY DERATING FACTOR | | | 1.100 |
| BATTERY AMP HOUR RATING (min. Ah) | | | 2.724 |
| EXISTING BATTERY PROVIDED (Ah) | | | 7.000 |

| (E) NOTIFICATION CIRCUIT - N1B - CKT# 3 | | | | | | | | | |
|--|----------|-----------------|-----------------------------|----------------------------|--------------------|----------------------|-------------------------|-------|--|
| VOLTAGE DROP CALCULATIONS | | | | | | | | | |
| BASED ON POINT-TO-POINT OHM'S CALCULATIONS. ACCEPTABLE LIMIT: 10% x 20.4V = 2.04 (MAX) | | | | | | | | | |
| OHMS = (#14 FEET* 3.07/1000 + #12 FEET* 1.93/1000 + #10 FEET* 1.21/1000) * 2 | | | | | | | | | |
| 1) VIO 15cd | 0.060 | 2) AV 30cd | 0.102 | 3) AV 75cd | 0.148 | | | | |
| 4) (E) AV 15cd | 0.065 | 5) (E) AV 75cd | 0.134 | 6) (E) AV WP 75cd | 0.145 | | | | |
| 7) (E) VIO 15cd | 0.041 | 8) (E) VIO 75cd | 0.116 | 9) (E) DSM1 | 0.038 | | | | |
| TYPE # | DEVIDE # | TO DEVIDE # | LINEAR FEET BETWEEN DEVICES | RESISTANCE OF WIRES (OHMS) | LOAD ON RUN (AMPS) | VOLTAGE DROP (VOLTS) | ACCUM. VOLTAGE DROP (V) | | |
| 5 | 9 | 8 | 62 | 0.239 | 0.134 | 0.032 | 0.032 | | |
| 8 | 8 | 7 | 50 | 0.180 | 0.250 | 0.048 | 0.080 | | |
| NEW | 3 | 7 | 6 | 0.135 | 0.398 | 0.054 | 0.134 | | |
| NEW | 3 | 6 | 5 | 0.112 | 0.546 | 0.116 | 0.250 | | |
| 7 | 5 | 4 | 10 | 0.039 | 0.567 | 0.023 | 0.273 | | |
| 7 | 4 | 3 | 15 | 0.058 | 0.628 | 0.036 | 0.309 | | |
| 7 | 3 | 2 | 78 | 0.301 | 0.669 | 0.201 | 0.510 | | |
| 6 | 2 | 1 | 50 | 0.193 | 0.814 | 0.157 | 0.668 | | |
| 5 | 1 | 0 | 112 | 0.432 | 0.948 | 0.410 | 1.077 | | |
| 9 | 0 | NAC | 2 | 0.008 | 0.986 | 0.008 | 1.085 | | |
| Percent Loss | | | | | | | | 5.32% | |

| POWER SUPPLY - N1C | | | |
|-----------------------------------|----------|---------------------|-------------------|
| DEVICE | QUANTITY | STANDBY CURRENT (A) | ALARM CURRENT (A) |
| CONTROL BOARD | 1 | | 0.240 |
| NOTIFICATION APPLIANCES | | | |
| NA1 | 7 | 0.684 | |
| NA2 | 4 | 0.500 | |
| SPARE | | | |
| TOTAL AMPERAGE | | 0.092 | 1.424 |
| STANDBY HOURS (h) | | 24 | 1.424 |
| ALARM OPERATION (h) | | | 0.0833 |
| ALARM AMPS (A) | | | 0.119 |
| TOTAL AMP HOURS (Ah) | | | 2.327 |
| BATTERY DERATING FACTOR | | | 1.100 |
| BATTERY AMP HOUR RATING (min. Ah) | | | 2.559 |
| EXISTING BATTERY PROVIDED (Ah) | | | 7.000 |

| NOTIFICATION CIRCUIT - N1C - CKT# 1 | | | | | | | | | |
|--|----------|-------------|-----------------------------|----------------------------|--------------------|----------------------|-------------------------|-------|--|
| VOLTAGE DROP CALCULATIONS | | | | | | | | | |
| BASED ON POINT-TO-POINT OHM'S CALCULATIONS. ACCEPTABLE LIMIT: 10% x 20.4V = 2.04 (MAX) | | | | | | | | | |
| OHMS = (#14 FEET* 3.07/1000 + #12 FEET* 1.93/1000 + #10 FEET* 1.21/1000) * 2 | | | | | | | | | |
| 1) VIO 15cd | 0.060 | 2) AV 30cd | 0.102 | 3) AV 75cd | 0.148 | | | | |
| TYPE # | DEVIDE # | TO DEVIDE # | LINEAR FEET BETWEEN DEVICES | RESISTANCE OF WIRES (OHMS) | LOAD ON RUN (AMPS) | VOLTAGE DROP (VOLTS) | ACCUM. VOLTAGE DROP (V) | | |
| 3 | 7 | 6 | 40 | 0.154 | 0.148 | 0.023 | 0.023 | | |
| 1 | 6 | 5 | 20 | 0.077 | 0.208 | 0.016 | 0.039 | | |
| 1 | 5 | 4 | 20 | 0.077 | 0.268 | 0.021 | 0.060 | | |
| 1 | 4 | 3 | 20 | 0.077 | 0.328 | 0.025 | 0.085 | | |
| 1 | 3 | 2 | 40 | 0.154 | 0.388 | 0.060 | 0.145 | | |
| 3 | 2 | 1 | 75 | 0.290 | 0.536 | 0.155 | 0.300 | | |
| 3 | 1 | NAC | 45 | 0.174 | 0.684 | 0.119 | 0.419 | | |
| Percent Loss | | | | | | | | 2.05% | |

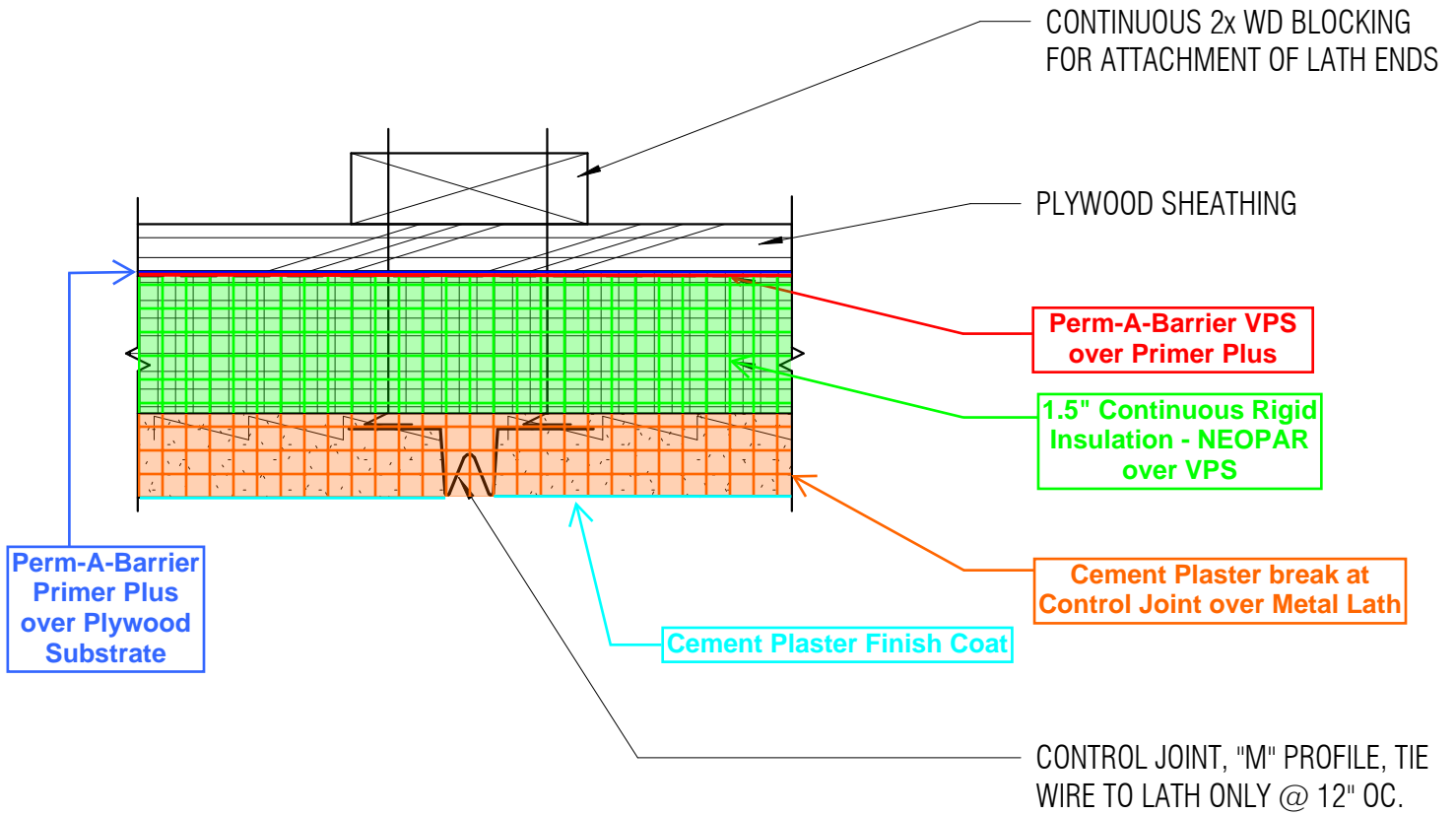
| NOTIFICATION CIRCUIT - N1C - CKT# 2 | | | | | | | | | |
|--|----------|-------------|-----------------------------|----------------------------|--------------------|----------------------|-------------------------|-------|--|
| VOLTAGE DROP CALCULATIONS | | | | | | | | | |
| BASED ON POINT-TO-POINT OHM'S CALCULATIONS. ACCEPTABLE LIMIT: 10% x 20.4V = 2.04 (MAX) | | | | | | | | | |
| OHMS = (#14 FEET* 3.07/1000 + #12 FEET* 1.93/1000 + #10 FEET* 1.21/1000) * 2 | | | | | | | | | |
| 1) VIO 30cd | 0.102 | 2) AV 30cd | 0.102 | 3) AV 75cd | 0.148 | | | | |
| TYPE # | DEVIDE # | TO DEVIDE # | LINEAR FEET BETWEEN DEVICES | RESISTANCE OF WIRES (OHMS) | LOAD ON RUN (AMPS) | VOLTAGE DROP (VOLTS) | ACCUM. VOLTAGE DROP (V) | | |
| 3 | 4 | 3 | 40 | 0.154 | 0.148 | 0.023 | 0.023 | | |
| 3 | 3 | 2 | 25 | 0.097 | 0.296 | 0.029 | 0.051 | | |
| 1 | 2 | 1 | 45 | 0.174 | 0.398 | 0.069 | 0.121 | | |
| 2 | 1 | NAC | 45 | 0.174 | 0.500 | 0.087 | 0.207 | | |
| Percent Loss | | | | | | | | 1.02% | |



1
 A6.21.2

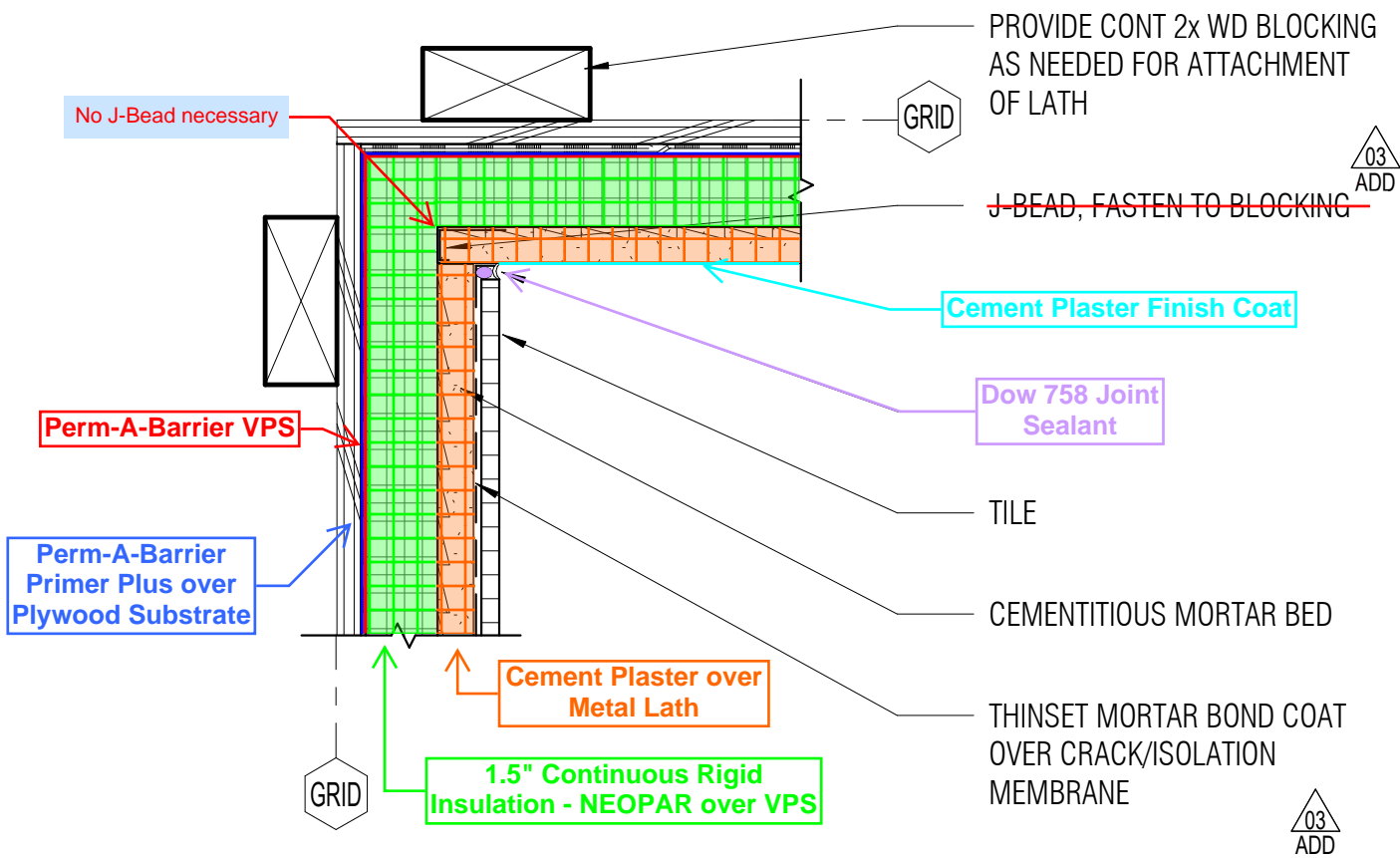
CEMENT PLASTER O/ CONT INSUL - ASSEMBLY WA1.1/WA1.2

3" = 1'-0"



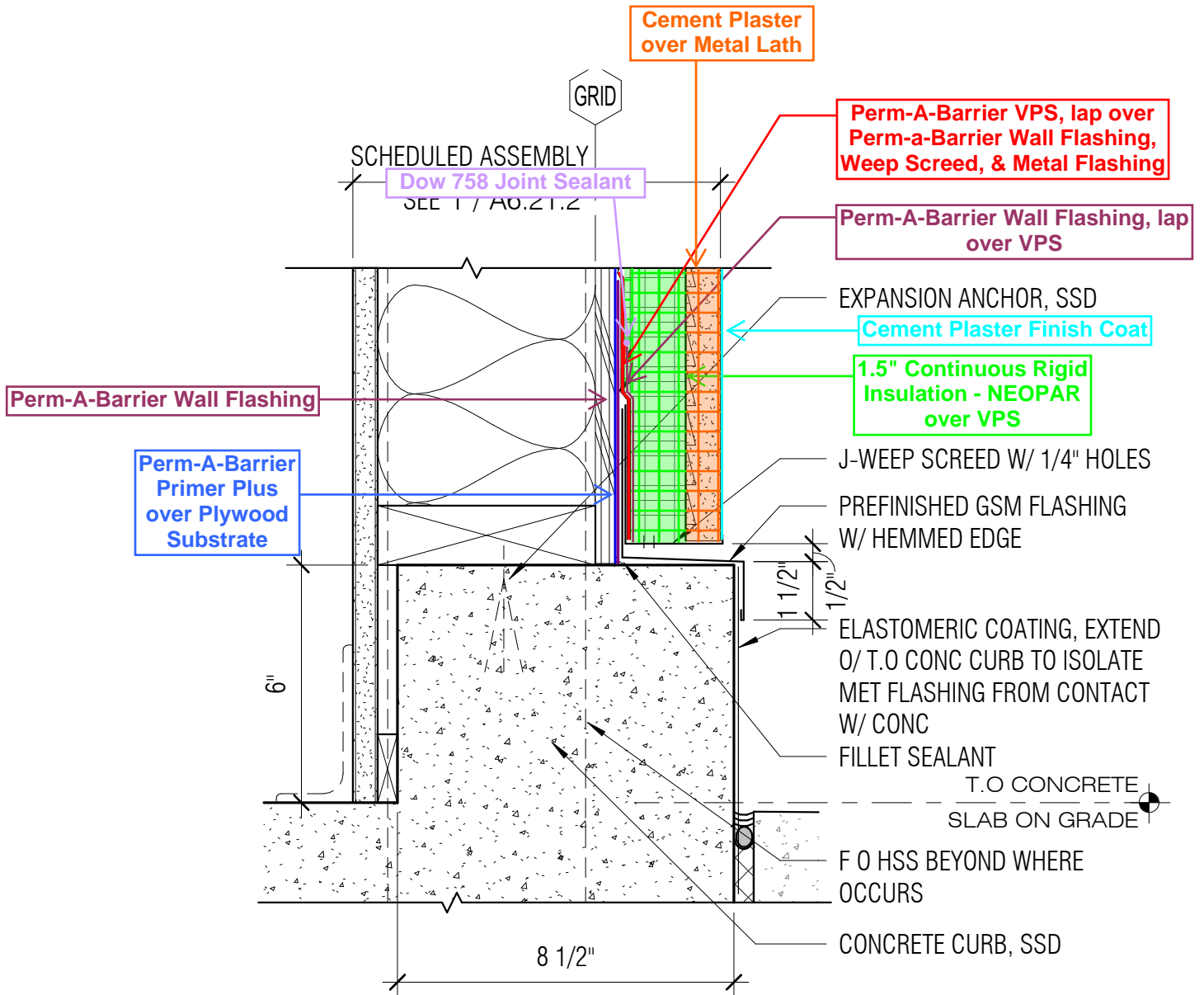
5 CONTROL JT @ CEMENT PLASTER

A6.21.2 6" = 1'-0"



7 INSIDE CORNER TRANSITION @ TILE & CEM PLASTER

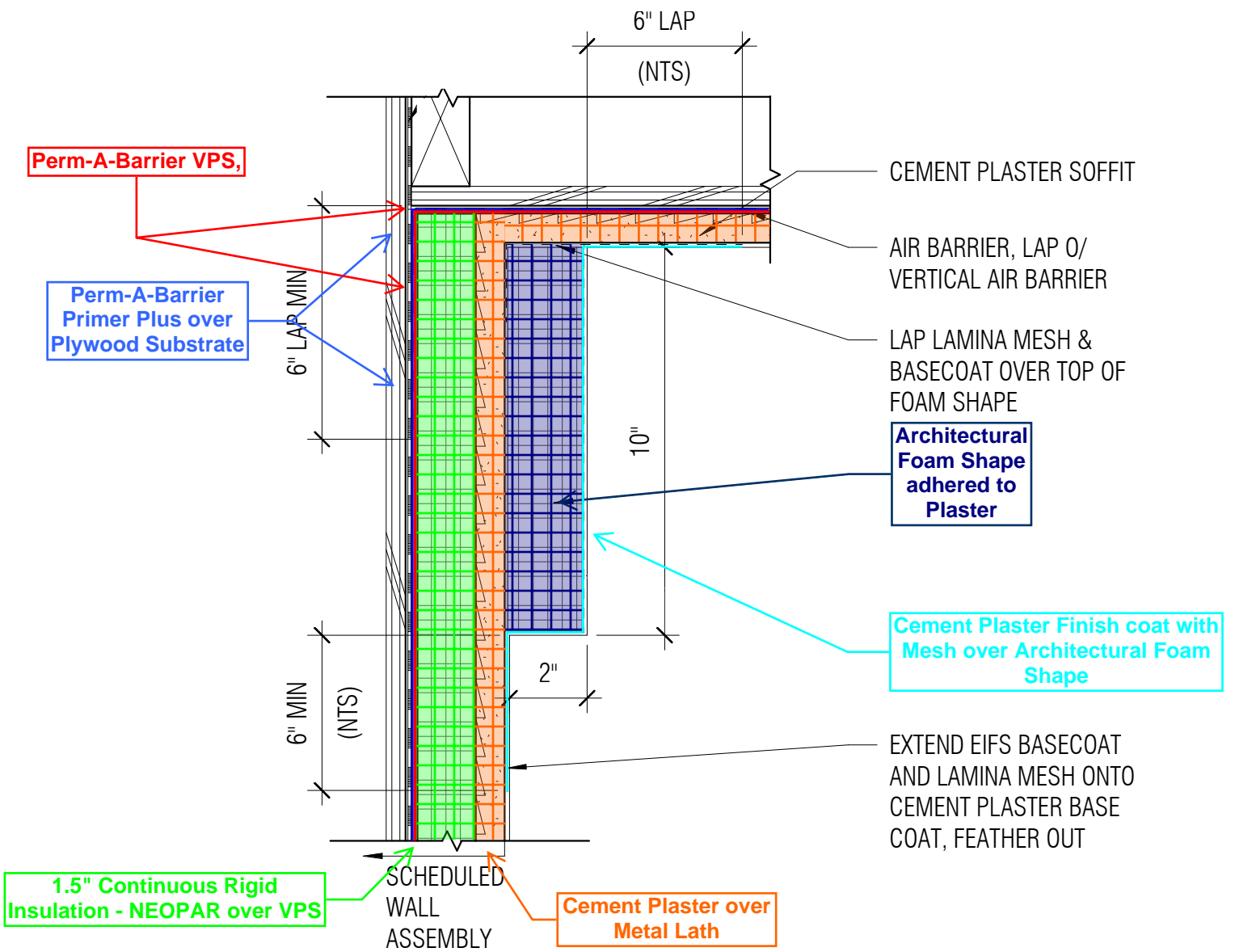
A6.21.2 3" = 1'-0"



8
A6.21.2

CONCRETE CURB @ CEMENT PLASTER EXTERIOR WALL

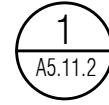
3" = 1'-0"



9 **FOAM SHAPE @ SOFFIT**

A6.21.2 3" = 1'-0"

FOR INFORMATION NOT NOTED, SEE



PROVIDE BOND-BREAKER TAPE ON SLOPED SURFACE OF GSM FLASING

1.5" Continuous Rigid Insulation - NEOPAR over VPS

Cement Plaster over Metal Lath

Perm-A-Barrier Wall Flashing, lap over Metal Flashing & DOW 758 Joint Sealant

J trim with Weep and extended leg

Dow 758 Joint Sealant

Perm-A-Barrier Primer Plus over Plywood Substrate

Perm-A-Barrier VPS

PREFINISHED GSM FLASHING

HEADER FRAMING, SSD

T O ROOF SHEATHING
SEE WALL SECTION

PLYWOOD SHEATHING, SSD

2x6 LEDGER

PT SOLID BLOCKING EDGE

(2) SDS2545 SCREWS TO ATTACH LEDGER TO HEADER

U26 HANGER, CUT SEAT OF 2x FOR LEVEL BEARING

2x6 SOFFIT FRAMING

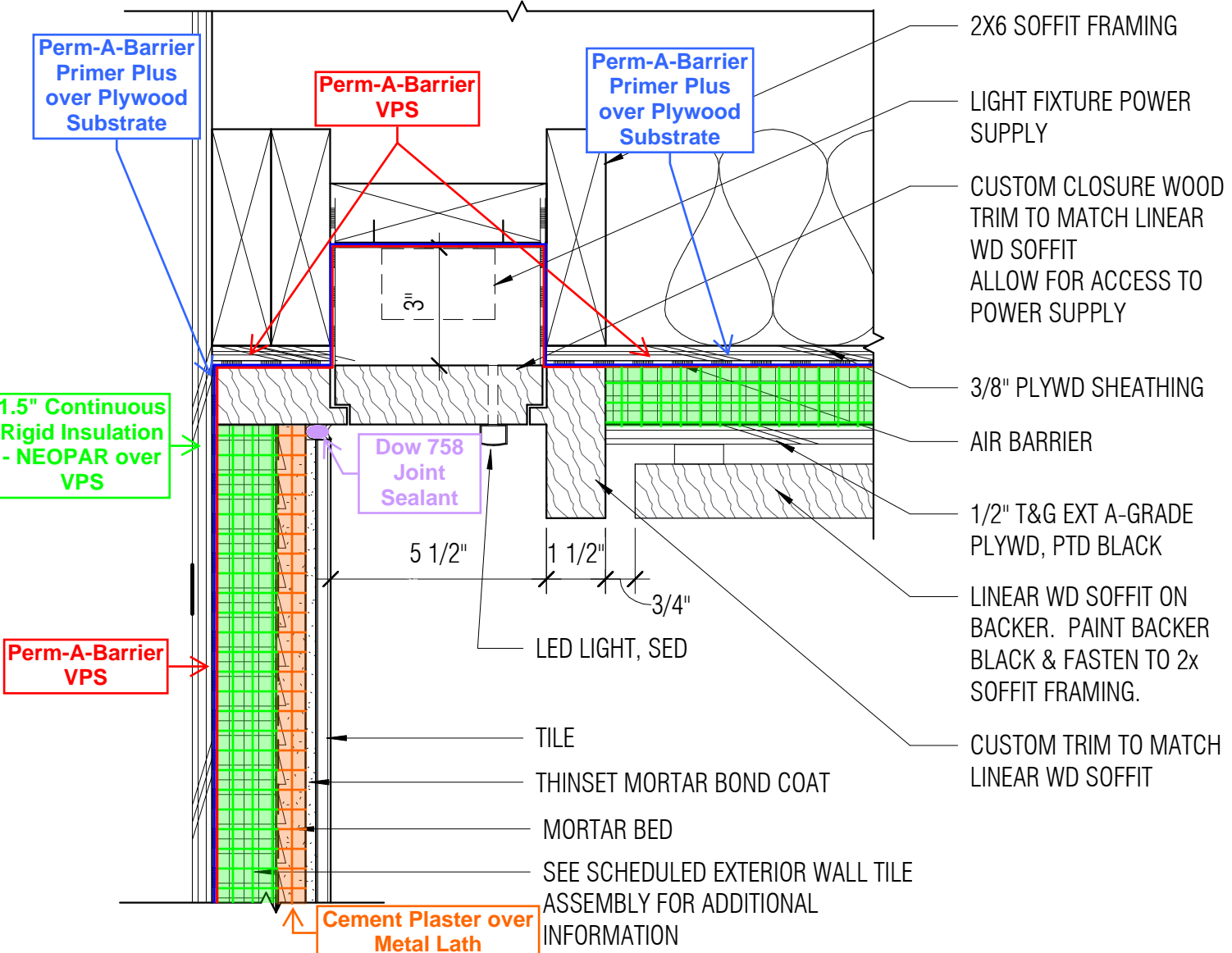
3/8" PLYWOOD SHEATHING

1/2" T&G MARINE GRADE PLYWD SHEATHING, PTD BLACK

LINEAR WD CEILING ON BACKER. FASTEN TO SOFFIT FRAMING. PROVIDE BLOCKING AS REQ'D. PAINT BACKER BLACK

10 HEAD @ LLRC ENTRANCE

A6.21.2 3" = 1'-0"



11
A6.21.2

RECESSED LIGHT FIXTURE @ LLRC ENTRANCE

3" = 1'-0"

1.5" Continuous Rigid Insulation - NEOPAR over VPS

GRID

FO CONC CURB BELOW

CORNER BEAD

CONT PLYWOOD NAILER, TYP. SSD FOR FASTENING

GRID

6" LAP MIN.

HSS, SSD

AIR/WATER BARRIER, LAP @ CORNER

Cement Plaster Finish Coat

Cement Plaster over Metal Lath

Perm-A-Barrier VPS, lap over Perm-a-Barrier Wall Flashing

Perm-A-Barrier Primer Plus over Plywood Substrate

WALL ASSEMBLY

AS SCHEDULED, SEE PLAN

12

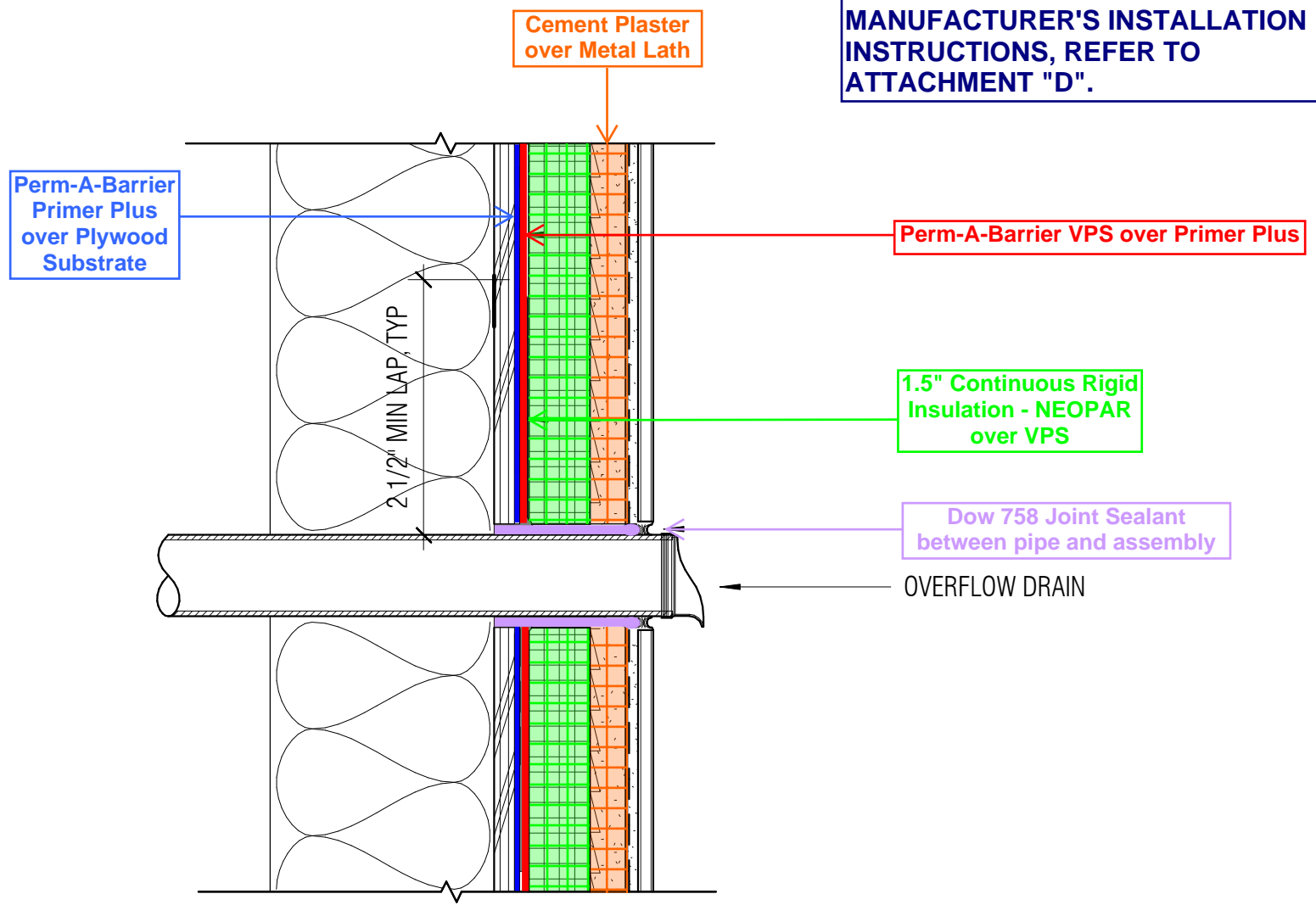
OUTSIDE CORNER @ CEMENT PLASTER - PLAN VIEW

A6.21.2

3" = 1'-0"

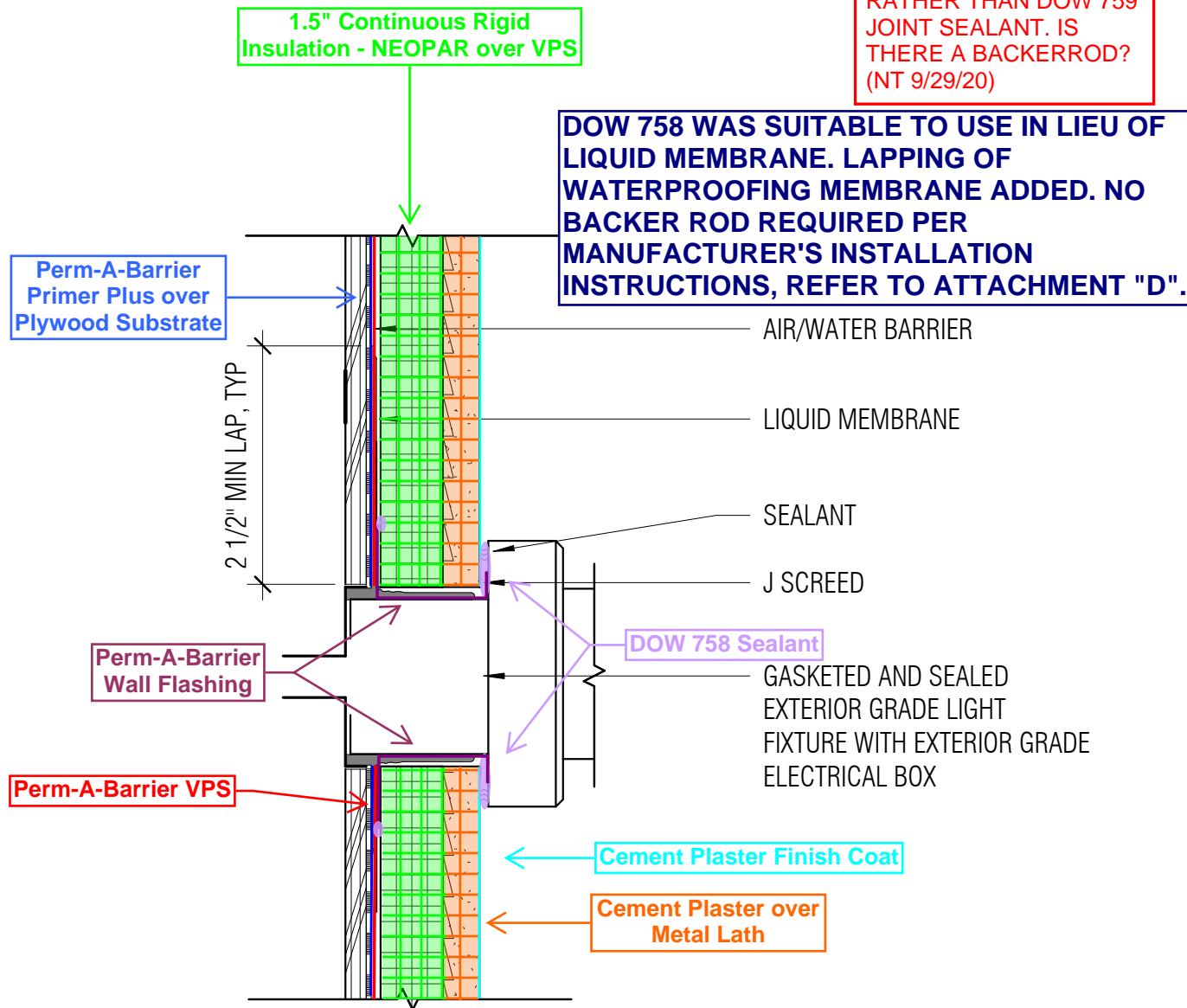
WHERE IS THE LIQUID MEMBRANE? RATHER THAN DOW 759 JOINT SEALANT. IS THERE A BACKERROD? (NT 9/29/20)

DOW 758 WAS SUITABLE TO USE IN LIEU OF LIQUID MEMBRANE. NO BACKER ROD REQUIRED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS, REFER TO ATTACHMENT "D".



16 FLASHING @ OVERFLOW DRAIN
A6.21.2 3" = 1'-0"

WHERE IS THE LIQUID MEMBRANE? NOT LAPPING SHOWN. RATHER THAN DOW 759 JOINT SEALANT. IS THERE A BACKER ROD? (NT 9/29/20)

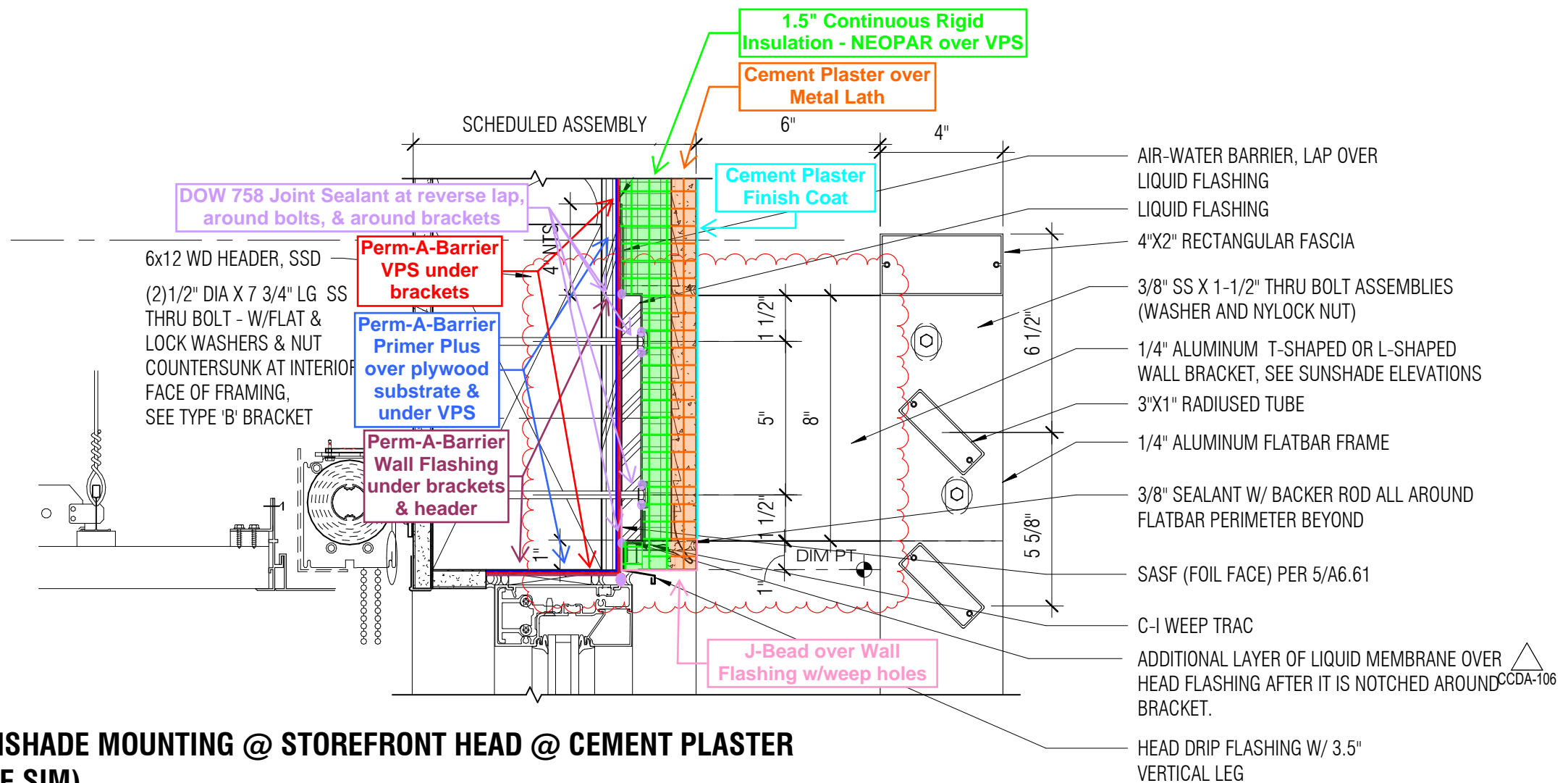


DETAIL REVISED TO USE REVISED CCD ISSUED 7/28/20. LIQUID MEMBRANE NOT REQUIRED AS WATERPROOFING WENT UNDER THE BRACKETS. BRACKETS AND BOLTS WERE WATERPROOFED BY CAULKING AROUND THEM; MANUFACTURER APPROVED THIS METHOD OF WATERPROOFING.

THE MARKUP DID NOT USE THE REVISED CCD ISSUED 7/28/20. WHERE IS THE LIQUID MEMBRANE THAT GOES OVER OVER THE BOLTS? HAVE REP CONFIRM THAT INSTALLATION SHOWN IS OK SINCE REP HAD SEEN REVISED VERSION OF THIS DETAIL IN CCD AND INDICATED IT WAS ACCEPTABLE. THIS IS DIFFERENT FROM CCD.
NT 9/29/20

J-BEAD IS NOT SHOWN, RATHER JUST A CORNER BEAD.

NT 9/29/20



SUNSHADE MOUNTING @ STOREFRONT HEAD @ CEMENT PLASTER

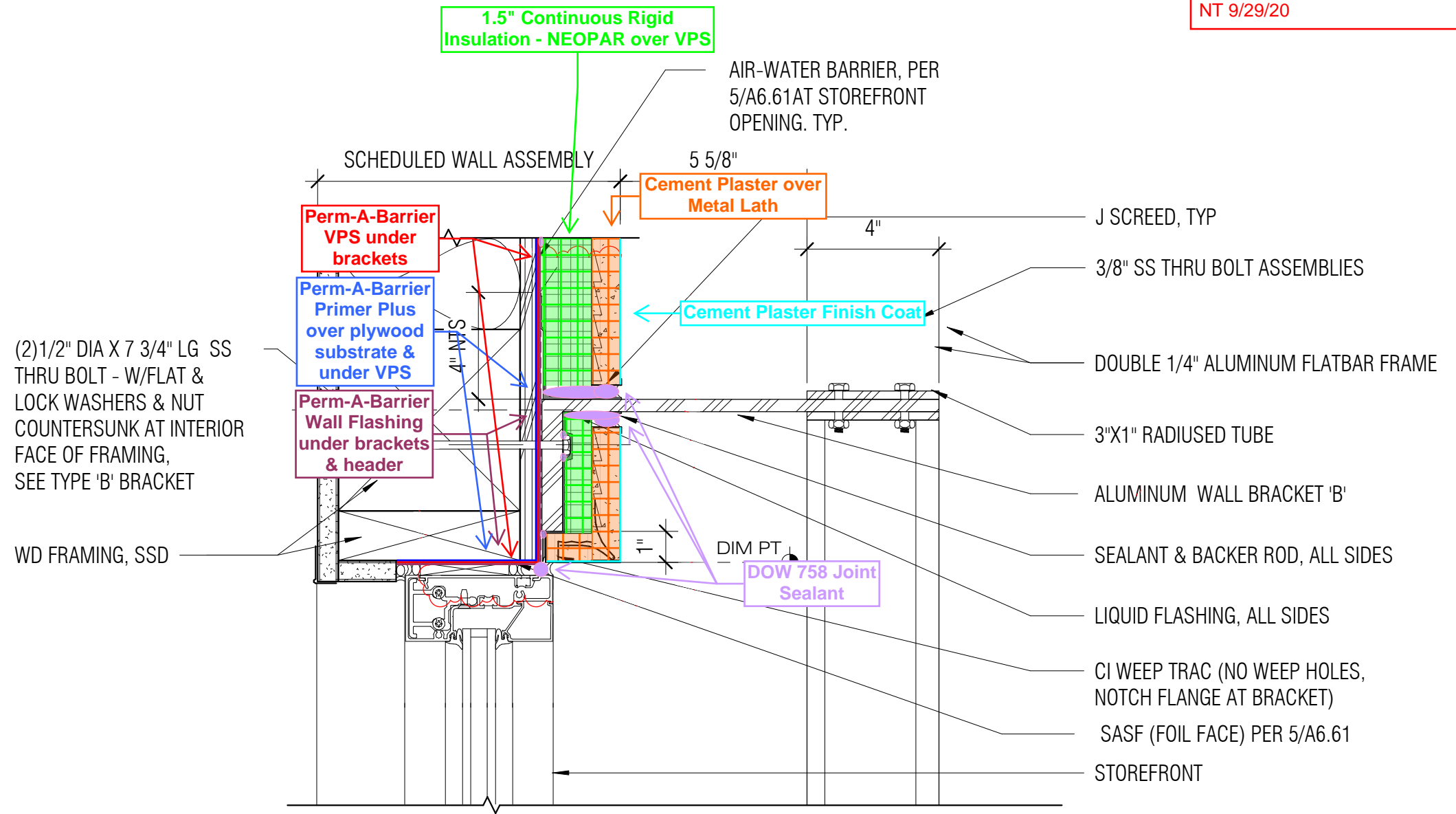
(TILE SIM)

1
A6.22.2 3" = 1'-0"

DETAIL REVISED TO USE REVISED CCD ISSUED 7/28/20. DOW 758 WAS SUITABLE TO USE IN LIEU OF LIQUID MEMBRANE. NO BACKER ROD REQUIRED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS, REFER TO ATTACHMENT "D". MANUFACTURER CONFIRMED THIS METHOD OF WATERPROOFING ACCEPTABLE.

WHERE IS THE BACKER ROD ALL AROUND PERIMTER IN ADDITION TO THE JOINT SEALANT?
NT 9/29/20

WHERE IS LIQUID MEMBRANE?
SAME QUESTION AS PREVIOUS PAGE
NT 9/29/20



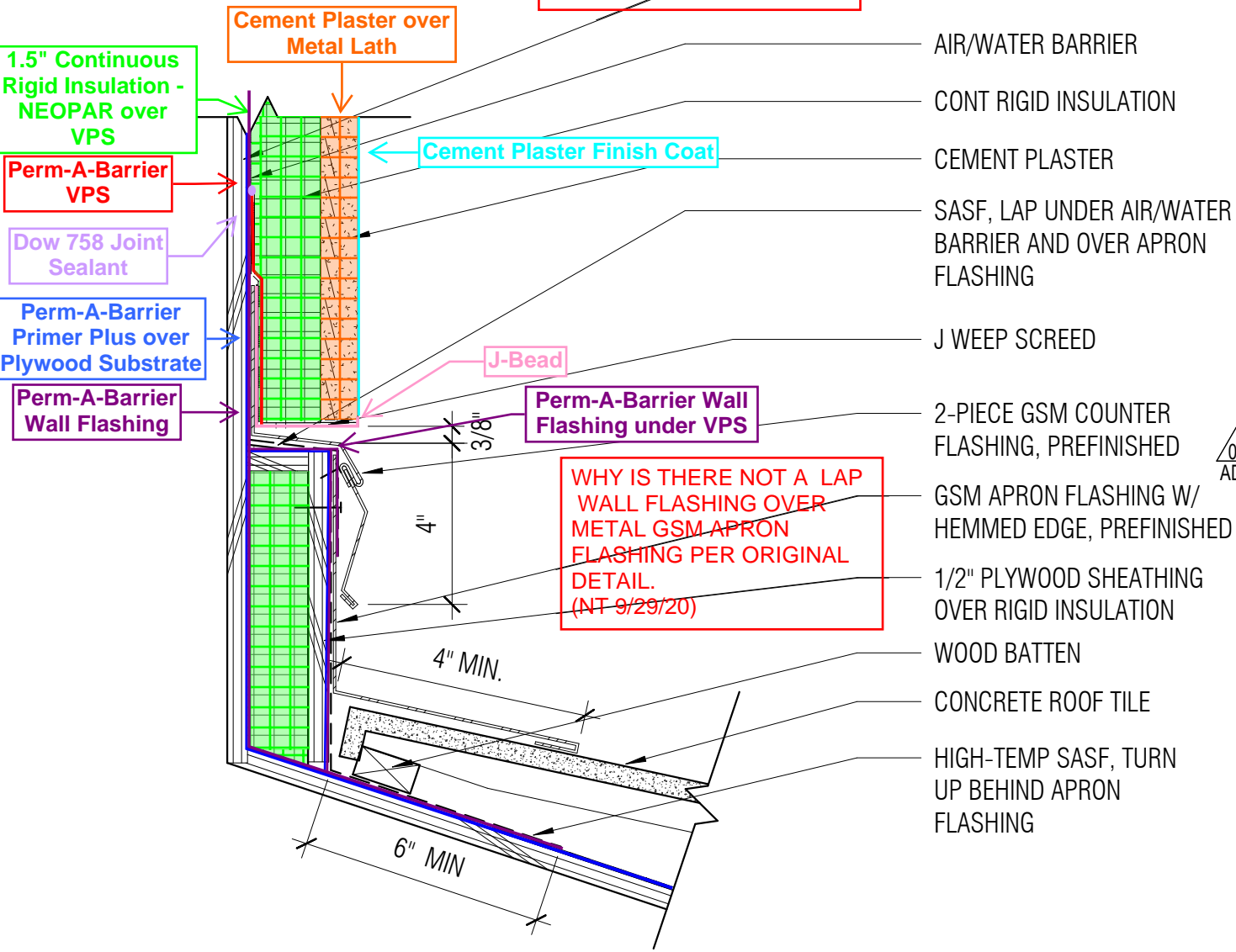
SUNSHADE MOUNTING @ STOREFRONT JAMB @ CEMENT PLASTER

(TILE SIM)

2
A6.22.2

3" = 1'-0"

WHY IS VPS NOT LAPPED OVER THE J WEEP SCREED? WHY IS LAP VPS OVER GSM COUNTERFLASHING NOT SHOWN PER ORIGINAL DETAIL? (NT 9/29/20)

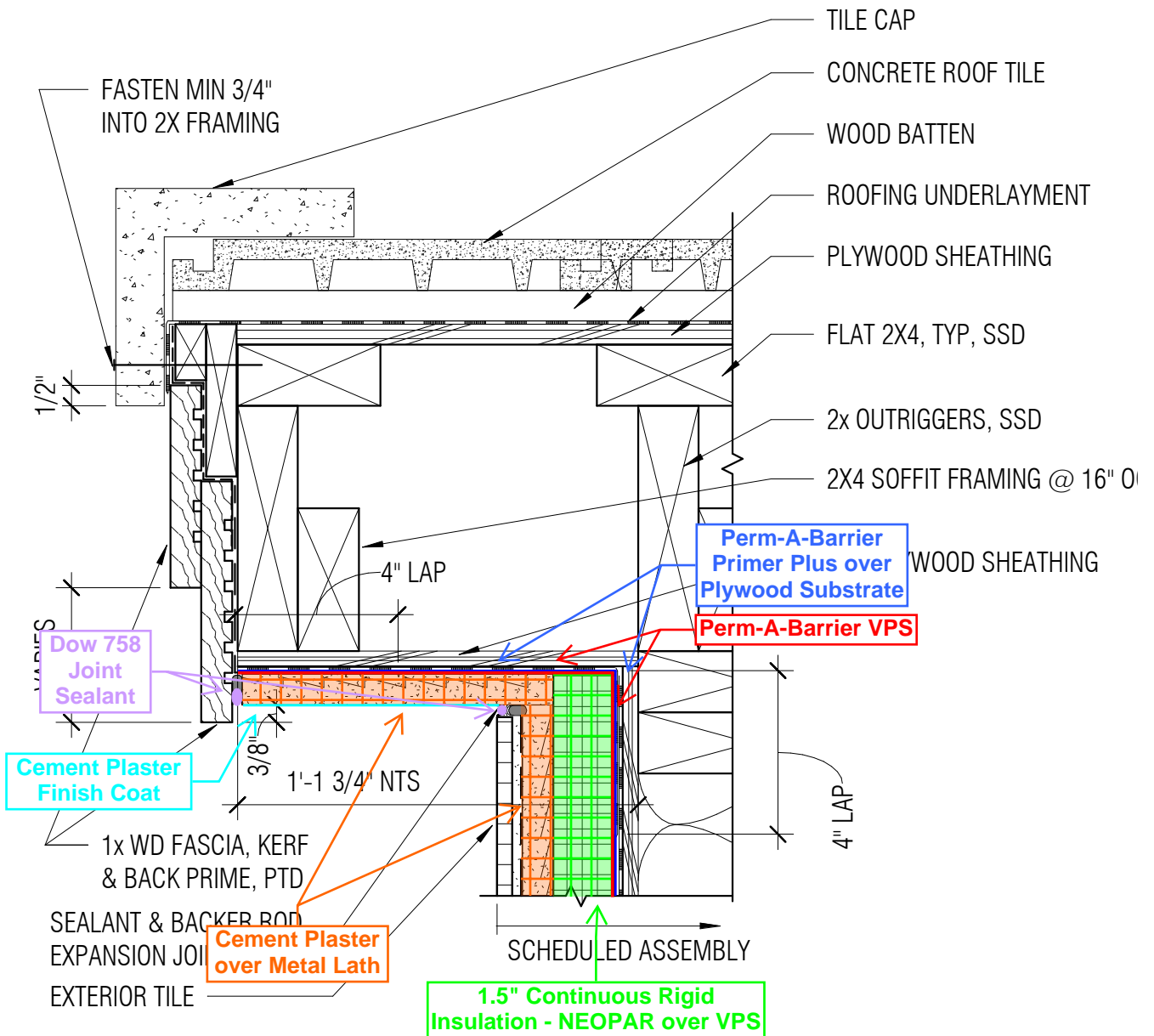


3
A6.41.2

HEADWALL FLASHING @ TILE ROOF

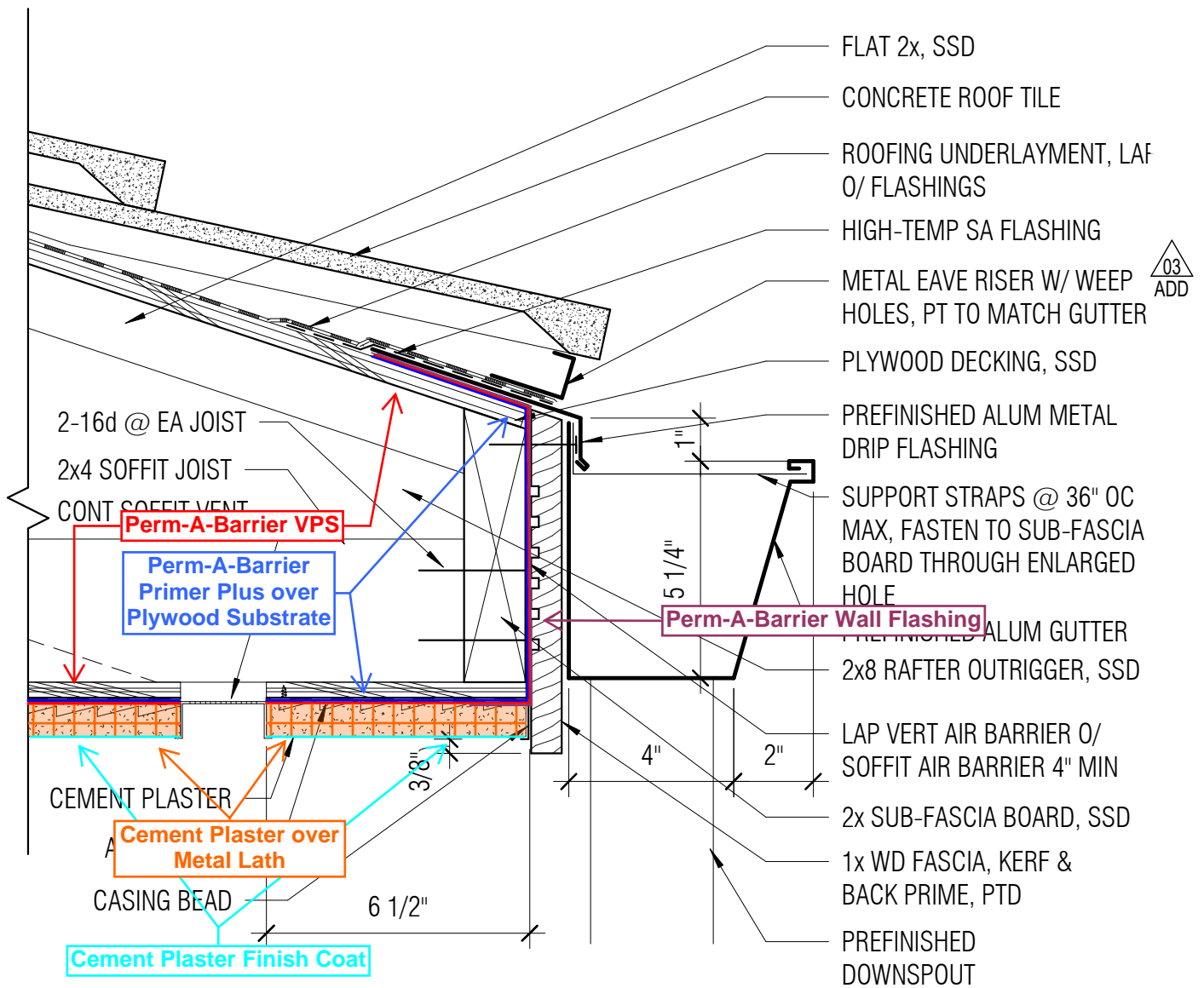
3" = 1'-0"

REVISED TO HAVE VPS LAP OF THE J-WEEP & GSM COUNTERFLASHING. REVISED TO HAVE WALL FLASHING LAP OVER METAL GSM APRON FLASHING.



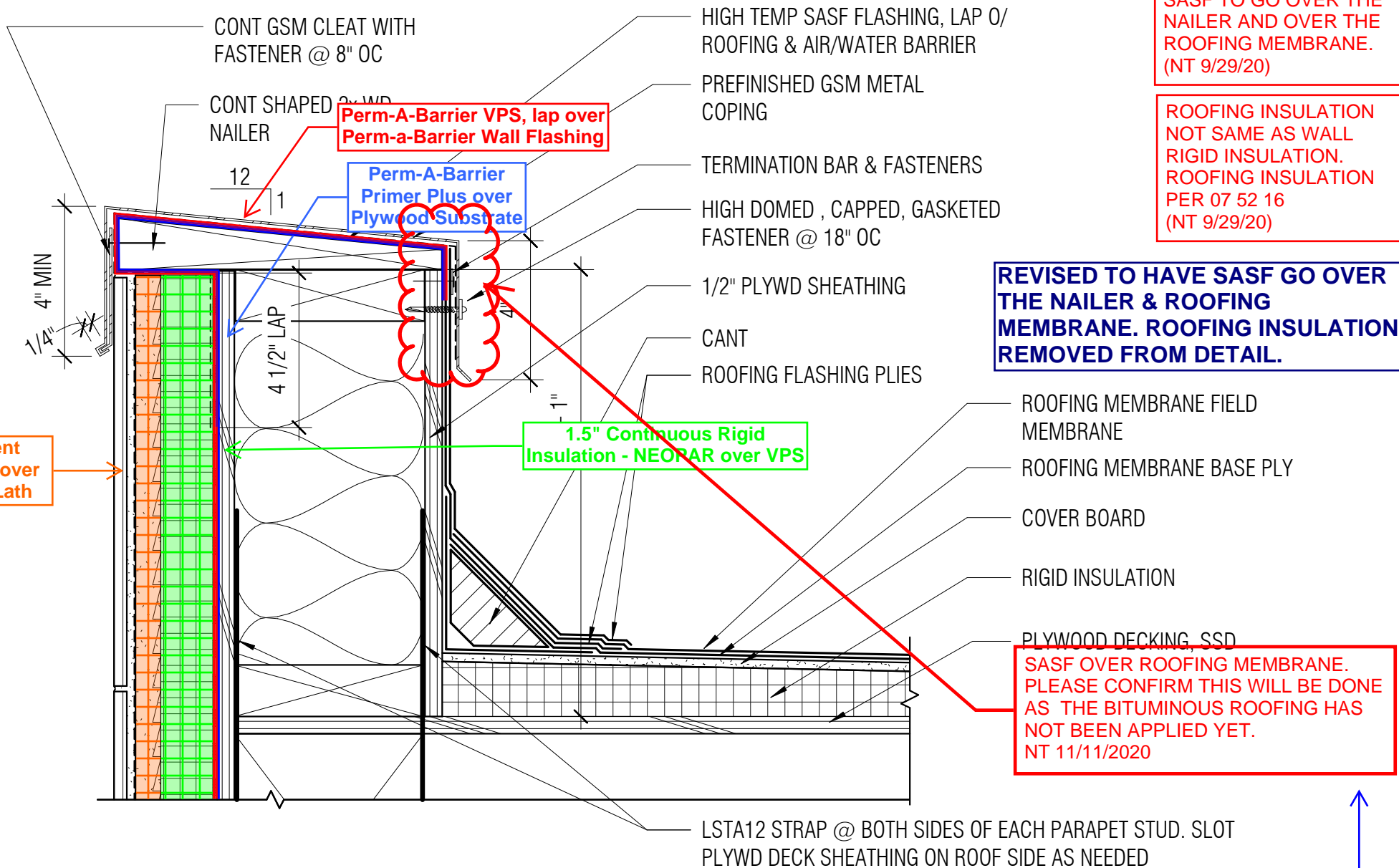
6 EAVE @ TILE ROOF RAKE AT LOWER SOFFIT

A6.41.2 3" = 1'-0"



7 GUTTER FLASHING @ TILE ROOF

A6.41.2 3" = 1'-0"



INCOMPLETE INSTALLATION, ASSUME WAITING FOR ENTRY-SASF TO GO OVER THE NAILER AND OVER THE ROOFING MEMBRANE. (NT 9/29/20)

ROOFING INSULATION NOT SAME AS WALL RIGID INSULATION. ROOFING INSULATION PER 07 52 16 (NT 9/29/20)

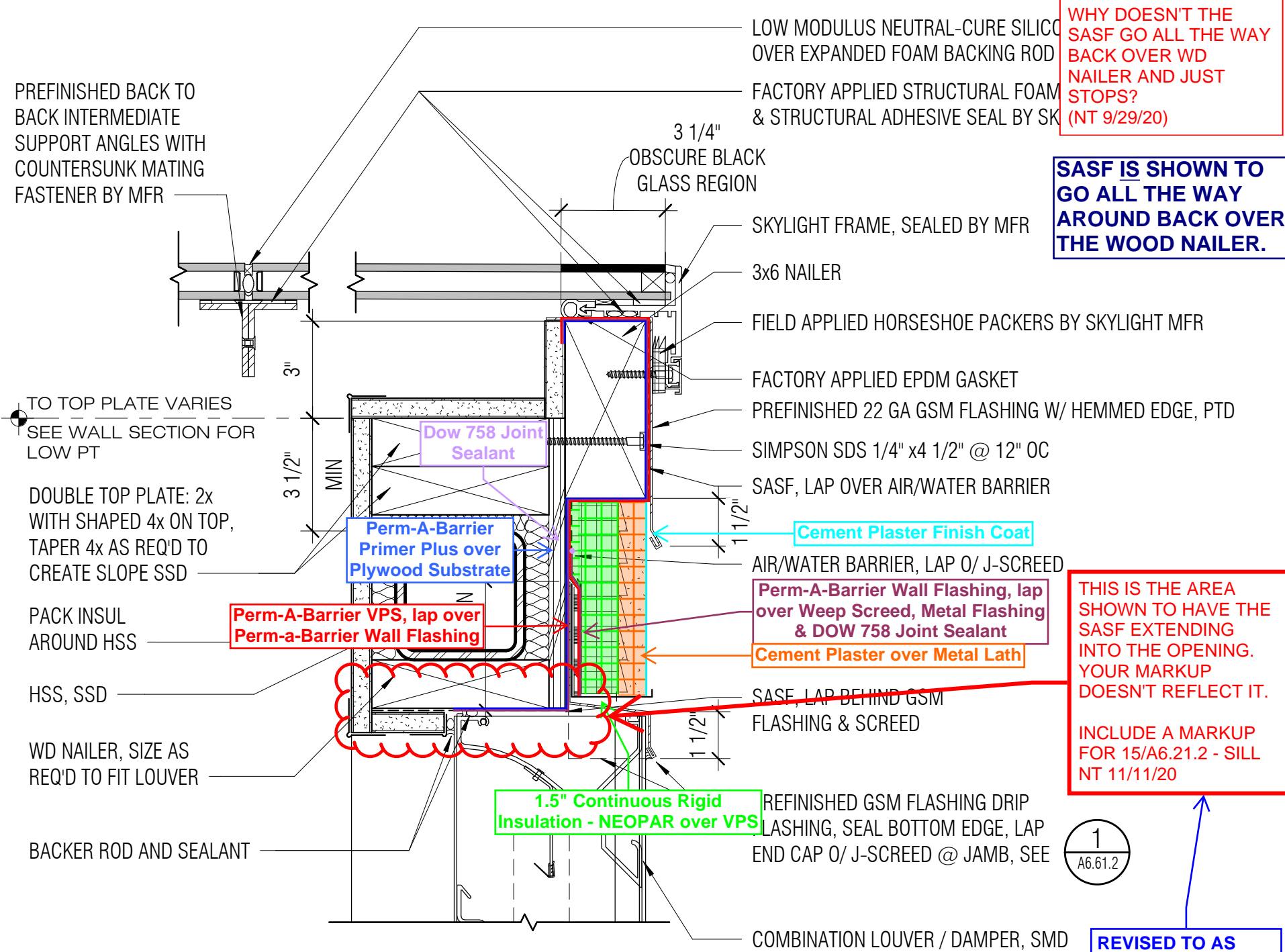
REVISED TO HAVE SASF GO OVER THE NAILER & ROOFING MEMBRANE. ROOFING INSULATION REMOVED FROM DETAIL.

SASF OVER ROOFING MEMBRANE. PLEASE CONFIRM THIS WILL BE DONE AS THE BITUMINOUS ROOFING HAS NOT BEEN APPLIED YET. NT 11/11/2020

HIGH TEMP SASF IS NOT DMS SCOPE OF WORK. CONFIRM SEQUENCING & COMPLETION WITH GC

11 ROOF EDGE @ LLRC ENTRANCE

A6.41.2 3" = 1'-0"



WHY DOESN'T THE SASF GO ALL THE WAY BACK OVER WD NAILER AND JUST STOPS?
(NT 9/29/20)

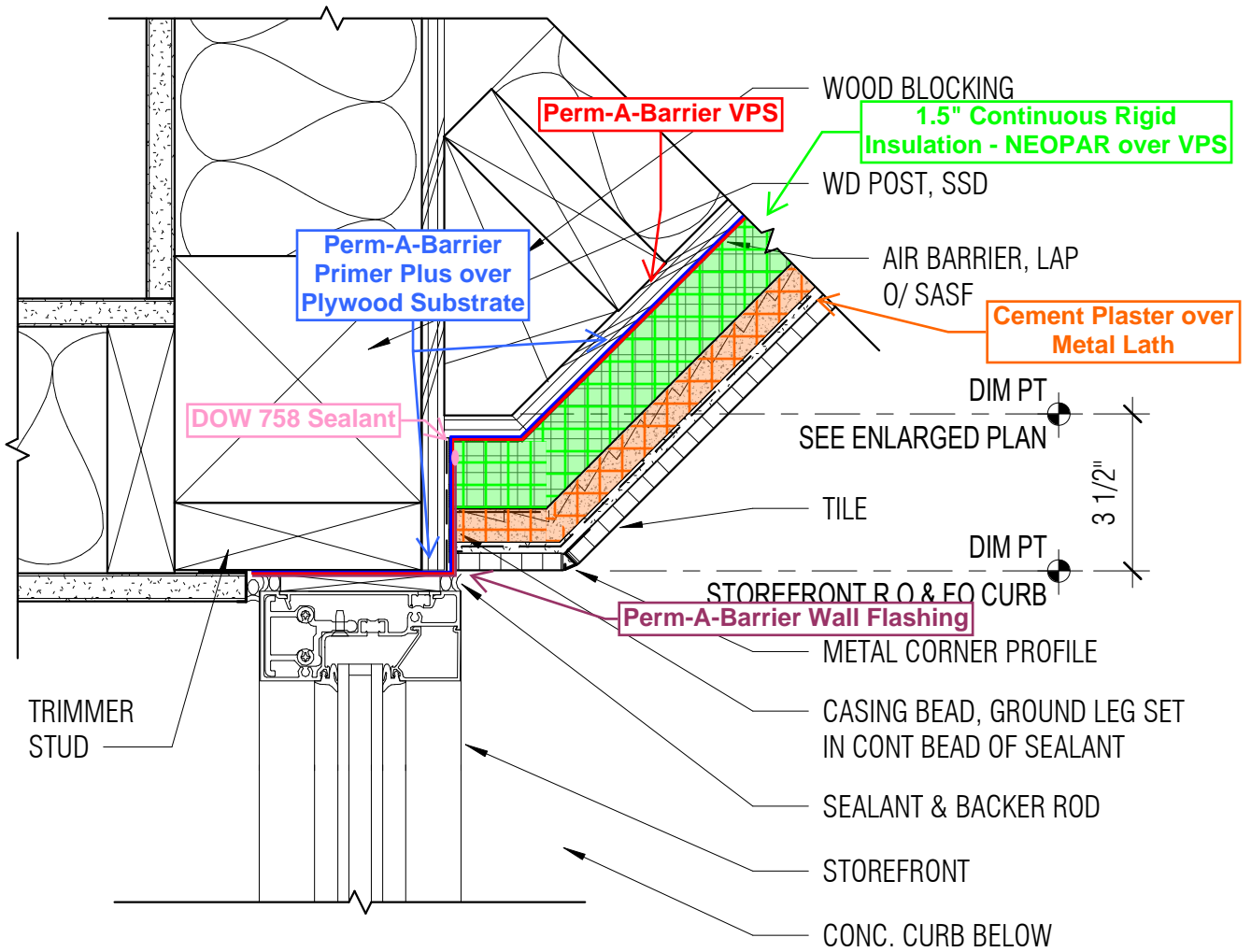
SASF IS SHOWN TO GO ALL THE WAY AROUND BACK OVER THE WOOD NAILER.

THIS IS THE AREA SHOWN TO HAVE THE SASF EXTENDING INTO THE OPENING. YOUR MARKUP DOESN'T REFLECT IT.

INCLUDE A MARKUP FOR 15/A6.21.2 - SILL
NT 11/11/20

1
A6.61.2

REVISED TO AS BUILD CONDITION

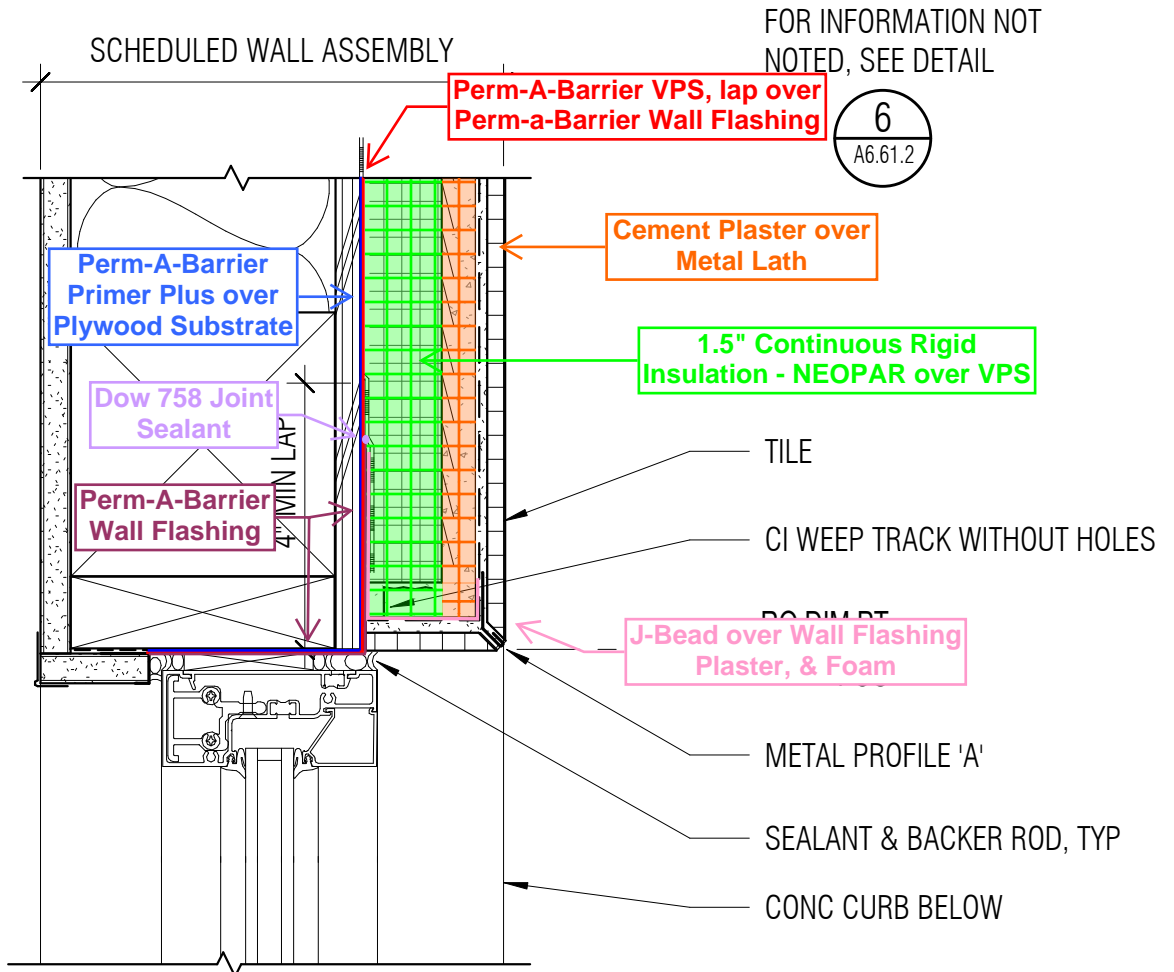


11 STOREFRONT JAMB @ LLRC ENTRANCE

A6.61.2 3" = 1'-0"

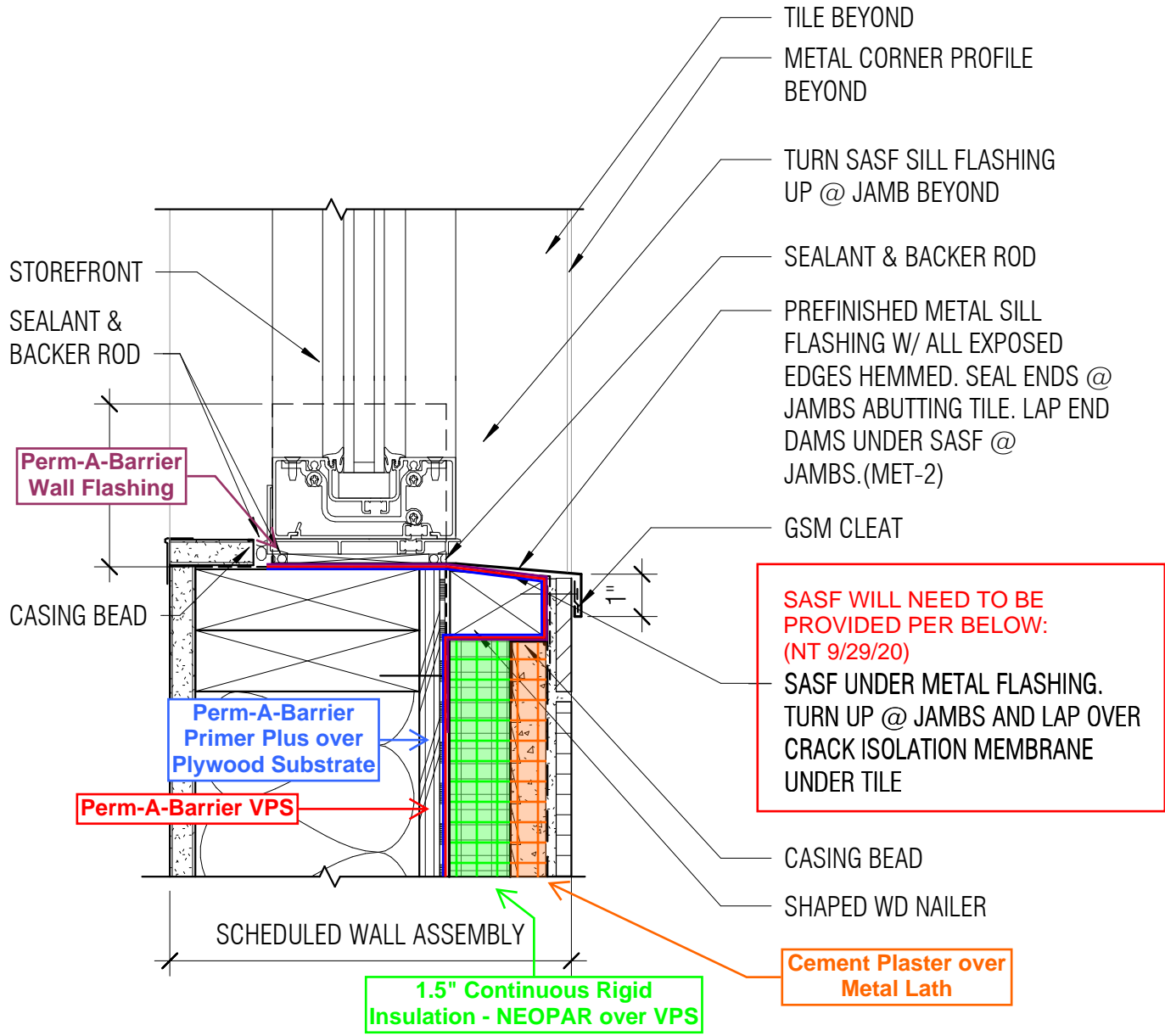
**CI TRACK NOT USED;
OVERSIZED PLASTER STOP
WAS INSTALLED. J-BEAD
INSTALLED BECAUSE TILE
COVERED THE CORNER.**

**WHY THERE IS NOT LAP
OF THE VPS OVER CI
WEEP TRAC?
(NT 9/29/20)**



14 STOREFRONT JAMB @ TILE

A6.61.2 3" = 1'-0"



15 STOREFRONT SILL @ TILE
 A6.61.2 3" = 1'-0"

REVISED TO SHOW PRIMER, SASF, & VPS WRAP AROUND WOOD NAILER UNDER METAL FLASHING.



PERIODIC FIELD OBSERVATION REPORT

| | |
|--|--|
| Project: <u>Diablo Valley College Library</u> | Report Number: <u>07232020A</u> |
| Location: <u>San Ramon, CA</u> | Date: <u>07/23/2020</u> |
| Re: <u>Perm-A-Barrier VPS Installation</u> | Times: <u>AM</u> |

Weather Conditions: Sunny **Site Conditions:** Dry

Persons Contacted:

Dikkie Anderson and Jonathan with DMS

Work Observed & Location:

Installation of VPS at various locations of the building and installation of the Perm-A-Barrier Wall Flashing at the roof level pop outs via Facetime and photos provided by DMS.

Items Discussed:

In general, the Perm-A-Barrier VPS system appeared to be installed per GCP recommendations and will qualify for the material only warranty.

We did discuss some of the wrinkling in the Perm-A-Barrier Wall Flashing installation and it was agreed the wrinkles would be rolled flat prior to covering and any wrinkle that exits a seam will be sealed with sealant.

Remarks:

Follow all application instructions in GCP Waterproofing Systems Contractor's Handbook and/or the most current details and literature on-line at www.gcpat.com. Periodic site visits by GCP are not a substitute for full time independent inspection. Periodic presence of GCP representatives on site do not result in GCP taking on any legal responsibility beyond the terms of GCP's standard legal documentation as it has been issued in relation to this project. This observation report is limited to the GCP waterproofing or air barrier systems.

Attachments (Describe)



We hope the information here will be helpful. It is based on data and knowledge considered to be true and accurate and is offered for the user's consideration, investigation and verification, but we do not warrant the results to be obtained. Please read all statements, recommendations or suggestions in conjunction with our conditions of sale which apply to all goods supplied by us. No statement, recommendation or suggestion is intended for any use which would infringe any patent or copyright. GCP Applied Technologies Inc. GCP Applied Technologies Inc., 62 Whittemore Ave., Cambridge, MA 02140. In Canada (in future: GCP Canada Inc.), Ltd. 294 Clements Road West, Ajax, Ontario, L1S 3C6.

Signed by: Matt Miller

Date: 07/27/2020

Copies: Owner A/E Contractor Consultant _____ File

Page of



PERIODIC FIELD OBSERVATION REPORT

Project: San Ramon Campus Report Number: 08112020A
Location: 1690 Watermill Rd, San Ramon Date: 08/11/2020
Re: Perm-A-Barrier VPS Installation Times: Unknown

Weather Conditions: Unknown Site Conditions: Unknown

Persons Contacted: Jonathan Tobias with DMS

Work Observed & Location: Installation of Perm-A-Barrier VPS and Perm-A-Barrier Detail Membrane at various wall locations via photos provided by DMS

Items Discussed: In general, based on the photos provided by DMS, the Perm-A-Barrier VPS and Perm-A-Barrier Detail Membrane appear to be installed per GCP recommendations.

Remarks: Follow all application instructions in GCP Waterproofing Systems Contractor's Handbook and/or the most current details and literature on-line at www.gcpat.com. Periodic site visits by GCP are not a substitute for full time independent inspection.

Attachments (Describe)

Signed by: Matt Miller Date: 8-11-2020

Copies: Owner A/E Contractor Consultant File









PERM-A-BARRIER® VPS Membrane

Ten Year Material Warranty

WARRANTY NO. 30538

NAME OF BUILDING Library Learning & Resource Center

LOCATION OF BUILDING 1690 Watermill Road, San Ramon, CA 94582

NAME OF OWNER Contra Costa Community College District

CONTRACTOR D.L. Falk Construction, Inc.

PRODUCT(S) USED PERM-A-BARRIER VPS

TOTAL AREA (SF) 7650

DATE OF COMPLETED INSTALLATION 08/12/2020

GCP Applied Technologies Inc. ("GCP") hereby warrants that for a period of Ten (10) years from the date of completion of installation identified above, the air permeance of a continuous coating of Membrane when installed and used in strict conformance with the written instructions of GCP will not exceed 0.02 l/s/m² when tested according to ASTM E 2178 at a pressure differential of 75 Pa, and the vapor permeance of Membrane when installed and used in strict conformance with the written instructions of GCP will be no less than 10 perms when tested according to ASTM E96 Method B.

If at any time during such Ten (10) year period the Membrane is found by GCP not to comply with this warranty, then GCP will supply to the owner replacement Membrane in a quantity equal to the material found to be nonconforming, with a value not to exceed the purchase price for the material paid to GCP for the original installation.

This warranty does not apply to any failure caused by or due to workmanship or improper installation of the Membrane, abuse of the Membrane, or chemical incompatibility with other materials, acts of God, movement or cracks in excess of 1/16 inch of the immediate substrate, inadequate or faulty design of the subject structure or to repairs or installations made by other persons not authorized by GCP. In addition, this warranty does not cover any costs or expenses associated with 1) the removal or replacement of any material including the exterior sheathing or facade in connection with the testing, repair, removal or replacement of the Membrane and, 2) damages or repairs of any kind or nature to the subject building or its' contents from air, vapor, water or otherwise.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ANY AND ALL OTHER GUARANTEES OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE REMEDIES OF THE OWNER FOR ANY BREACH OF THIS WARRANTY SHALL BE LIMITED TO THOSE HEREIN PROVIDED TO THE EXCLUSION OF ANY AND ALL OTHER REMEDIES. GCP SHALL NOT BE LIABLE IN ANY CASE FOR ANY DAMAGE TO THE BUILDING OR THE CONTENTS THEREOF, NOR WILL IT BE RESPONSIBLE FOR SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR PENAL DAMAGES. NO AGREEMENT VARYING OR EXTENDING THE FOREGOING WARRANTY REMEDIES WILL BE BINDING UPON GCP UNLESS IN WRITING, SIGNED BY A DULY AUTHORIZED OFFICER OF GCP.

GCP Applied Technologies Inc.

By Title *Mark Karamian*
Warranty Administrator

Date 11/03/2020

PERM-A-BARRIER® Detail Membrane

Ten Year Material Warranty

WARRANTY NO. 30537

NAME OF BUILDING Library Learning & Resource Center

LOCATION OF BUILDING 1690 Watermill Road, San Ramon, CA 94582

NAME OF OWNER Contra Costa Community College District

CONTRACTOR D.L. Falk Construction, Inc.

PRODUCT(S) USED PERM-A-BARRIER Detail Membrane

LINEAR FT. & WIDTH (INCHES) 2100

DATE OF COMPLETED INSTALLATION 08/12/2020

GCP Applied Technologies Inc. ("GCP") hereby warrants that for a period of Ten (10) years from the date of completion of installation identified above, the air permeance of an individual Membrane when installed and used in strict conformance with the written instructions of GCP will not exceed 0.02 l/s/m² when tested according to ASTM E 2178 at a pressure differential of 75 Pa.

If at any time during such Ten (10) year period the Membrane is found by GCP not to comply with this warranty, then GCP will supply to the owner replacement Membrane in a quantity equal to the material found to be nonconforming, with a value not to exceed the purchase price for the material paid to GCP for the original installation.

This warranty does not apply to any failure caused by or due to workmanship or improper installation of the Membrane, abuse of the Membrane, or chemical incompatibility with other materials, acts of God, movement or cracks in excess of 1/16 inch of the immediate substrate, inadequate or faulty design of the subject structure or to repairs or installations made by other persons not authorized by GCP. In addition, this warranty does not cover any costs or expenses associated with 1) the removal or replacement of any material including the exterior sheathing or facade in connection with the testing, repair, removal or replacement of the Membrane and, 2) damages or repairs of any kind or nature to the subject building or its' contents from air, vapor, water or otherwise.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ANY AND ALL OTHER GUARANTEES OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE REMEDIES OF THE OWNER FOR ANY BREACH OF THIS WARRANTY SHALL BE LIMITED TO THOSE HEREIN PROVIDED TO THE EXCLUSION OF ANY AND ALL OTHER REMEDIES. GCP SHALL NOT BE LIABLE IN ANY CASE FOR ANY DAMAGE TO THE BUILDING OR THE CONTENTS THEREOF, NOR WILL IT BE RESPONSIBLE FOR SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR PENAL DAMAGES. NO AGREEMENT VARYING OR EXTENDING THE FOREGOING WARRANTY REMEDIES WILL BE BINDING UPON GCP UNLESS IN WRITING, SIGNED BY A DULY AUTHORIZED OFFICER OF GCP.

GCP Applied Technologies Inc.

By Title


Warranty Administrator

Date

11/03/2020

PERM-A-BARRIER® Wall Flashing Membrane

Ten Year Material Warranty

WARRANTY NO. 30539

NAME OF BUILDING Library Learning & Resource Center

LOCATION OF BUILDING 1690 Watermill Road, San Ramon, CA 94582

NAME OF OWNER Contra Costa Community College District

CONTRACTOR D.L. Falk Construction, Inc.

PRODUCT(S) USED PERM-A-BARRIER Wall Flashing

LINEAR FT. & WIDTH (INCHES) 675

DATE OF COMPLETED INSTALLATION 08/12/2020

GCP Applied Technologies Inc., ("GCP") hereby warrants that for a period of Ten (10) years from the date of completion of installation identified above, the air permeance of an individual Membrane when installed and used in strict conformance with the written instructions of GCP will not exceed 0.02 l/s/m² when tested according to ASTM E 283 at a pressure differential of 75 Pa.

If at any time during such Ten (10) year period the Membrane is found by GCP not to comply with this warranty, then GCP will supply to the owner replacement Membrane in a quantity equal to the material found to be nonconforming, with a value not to exceed the purchase price for the material paid to GCP for the original installation.

This warranty does not apply to any failure caused by or due to workmanship or improper installation of the Membrane, abuse of the Membrane, or chemical incompatibility with other materials, acts of God, movement or cracks in excess of 1/16 inch of the immediate substrate, inadequate or faulty design of the subject structure or to repairs or installations made by other persons not authorized by GCP. In addition, this warranty does not cover any costs or expenses associated with 1) the removal or replacement of any material including the exterior sheathing or facade in connection with the testing, repair, removal or replacement of the Membrane and, 2) damages or repairs of any kind or nature to the subject building or its' contents from air, vapor, water or otherwise.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ANY AND ALL OTHER GUARANTEES OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE REMEDIES OF THE OWNER FOR ANY BREACH OF THIS WARRANTY SHALL BE LIMITED TO THOSE HEREIN PROVIDED TO THE EXCLUSION OF ANY AND ALL OTHER REMEDIES. GCP SHALL NOT BE LIABLE IN ANY CASE FOR ANY DAMAGE TO THE BUILDING OR THE CONTENTS THEREOF, NOR WILL IT BE RESPONSIBLE FOR SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR PENAL DAMAGES. NO AGREEMENT VARYING OR EXTENDING THE FOREGOING WARRANTY REMEDIES WILL BE BINDING UPON GCP UNLESS IN WRITING, SIGNED BY A DULY AUTHORIZED OFFICER OF GCP.

GCP Applied Technologies Inc.

By Title *Mark Hancisi*
Warranty Administrator

Date 11/03/2020



390 Selby Street
San Francisco, 94124
Ca Lic. 970358

Phone 415-508-4968
Fax 415-508-4585
dschmitt@sfinteriorsinc.com

Completion Date: 8/11/20
Project Name: San Ramon Campus Expansion Increment #2
Project No.: 19545
Project Location: 1690 Watermill Rd, San Ramon, CA 94582

GUARANTEE FOR: Contra Costa Community College District, between D.L. FALK & DMS Drywall & Interior Systems INC.

David M. Schmitt hereby guarantees to the Contra Costa Community College District that the portion of the work described as follows Air Barriers which it has provided for the above referenced Project, is good of quality; free from defects; free from any liens, claims, and security interests; and has been completed in accordance with specifications : 07 27 15 Self-Adhering Sheet Air Barriers and other requirements of the Contract.

The undersigned further agrees that, if at any time within 5 years after the date of the guarantee the undersigned receives notice from the owner that the aforesaid portion of the Work is unsatisfactory, faulty, deficient, incomplete, or not in conformance with the requirements of the Contract, the undersigned will within ten (10) calendar thereof; and that it shall diligently and continuously prosecute such correction, repair, or days after receipt of such notice, correct, repair, or replace such portion of the Work, together with any other parts of the Work and any other property which is damaged or destroyed as a result of such defective portion of the Work or the correction, repair, or replacement to completion.

In the event the undersigned fails to commence such correction, repair, or replacement within ten (10) calendar days after such notice, or to diligently and continuously prosecute the same to completion, the undersigned, collectively and separately, do hereby authorize the owner to undertake such correction, repair, or replacement at the expense of the undersigned; and Contractor will pay to Contra Costa Community College District promptly upon demand all costs and expenses incurred by Contra Costa Community College District in connection therewith.

1. SUBCONTRACTOR

Signed: David M. Schmitt Title: 11/12/2020

David M. Schmitt:

DMS Drywall & Interior Systems INC.
License No.: 1035342
390 Selby St.
San Francisco, CA 94124



Consumer Solutions

DOWSIL™ 758 Silicone Weather Barrier Sealant

Application Guidelines

Introduction

There are five basic steps for proper joint preparation and sealant application:

1. **Clean** – Joint surfaces must be clean, dry, dust-free and frost-free.
2. **Prime** – If required, primer is applied to the clean surfaces.
3. **Pack** – Backer rod or bond breaker is applied as required.
4. **Seal** – Sealant is applied to the substrate or into the sealant joint.
5. **Tool** – Dry tooling techniques are used to create a flush joint and to make certain the sealant has the proper configuration and fully contacts the joint walls.

The following sections are intended to provide detailed information in each of these areas.

1. Clean – Substrate Cleaning Procedure

This section provides information on cleaning solvents and general cleaning procedures for peel-and-stick and spunbond polyolefin flashing substrates. Please follow all Dow standard published guidelines (available in the Dow Americas Technical Manual, Form No. 62-1112) for cleaning of metal or cementitious substrates.

The key to good sealant adhesion is a clean surface. You should always check with the substrate supplier to ensure that the cleaning procedures and solvents are compatible with the substrate.

Flashing or membrane substrates

Peel-and-stick and spunbond polyolefin substrates are unique surfaces to which to bond, but must be clean to achieve sealant adhesion. However, adhesion to these substrates may be negatively affected if they are “overcleaned,” burnished or polished. Dow recommends cleaning substrates using a light “two-cloth” wipe method, using an isopropanol alcohol (IPA) solvent wipe followed by a dry cloth. Use clean, soft, absorbent, lint-free cloths for the cleaning.

- A. If there is significant dirt or debris visible on the membrane surface, lightly brush off using a soft brush.
- B. Pour or dispense an acceptable cleaning-grade solvent onto the cloth. A plastic (solvent-resistant) squeeze bottle works best for organic cleaning solvents. Do not dip the cloth into the container of solvent, as this will contaminate the cleaning agent.
- C. Lightly wipe the membrane surface to remove contaminants. Check the cloth to see if it has picked up contaminants. Rotate the cloth to a clean area and re-wipe until no additional dirt is picked up.
- D. Immediately wipe the cleaned area with a separate clean, dry cloth.

The IPA must be removed with the dry cloth before the solvent evaporates or the cleaning will be less effective. Allow the IPA to “flash” or dry prior to applying primer or sealant. Drying time depends on environmental conditions, but allowing 5-10 minutes for the IPA to flash off a membrane substrate typically is sufficient.

2. Prime – Primer Application Procedure

Generally, DOWSIL™ 758 Weather Barrier Sealant does not require use of a primer. Should a primer be found to be necessary to enhance adhesion, please follow these procedures to apply DOWSIL™ brand primers:

- A. Joint surfaces should be clean and dry.
- B. Pour some primer into a small, clean container; be sure to replace and tighten the cap on the primer can. To prevent deterioration of the primer, do not pour more than a 10-minute supply into the container.

- C. Depending on the substrate and job conditions, two different methods can be used to apply the primer. Dip a clean, dry, lint-free cloth into the primer and gently wipe a thin film onto the surface. **Caution:** Overpriming can cause adhesion loss between the sealant and the primer. If too much primer has been applied, a powdery, chalky, dusty film will form on the surface. Excess primer should be removed by dusting the joint with a clean, dry, lint-free cloth or a non-metallic bristle brush. D. Allow the primer to dry until all the solvent evaporates. This typically takes 5 to 30 minutes, depending upon the temperature and humidity.
- E. Inspect the surface for dryness. If too much primer has been applied, a powdery, chalky, dusty film will form on the surface. In this case, remove excess primer with a clean, dry, lint-free cloth or a non-metallic bristle brush before applying sealant.
- F. The surface is now ready for application of the backer rod (if applicable) and sealant. Sealant must be applied the same day the surfaces are primed. Any surfaces primed but not sealed on the same day must be re-cleaned and re-primed before applying sealant.

Store primer with cap tightly closed, as DOWSIL™ primers will react quickly when exposed to moisture, reducing their adhesion-promoting capabilities.

3. Pack – Backer Rod Installation

Lap joints between flashings do not require backer rod.

Standard butt joints for internal seals may utilize backer rod. Install backer rod after any cleaning solvents and primers are completely dry. Backer rod is generally sized 25% greater than the joint width. Acceptable backer rod types for use with DOWSIL™ 758 Weather Barrier Sealant are open cell or non-gassing polyolefin, commonly referred to as SOF® ROD¹.

4. Seal – Sealant Application

It is critical that the sealant fills the entire joint or cavity and firmly contacts all surfaces intended to receive sealant. If the joint is improperly filled, good adhesion will not be achieved, and sealant performance will be weakened.

To obtain full adhesion, sealants require a clean, dry, frost-free surface. Although silicone sealants have excellent wide-temperature gunnability, the practical application temperature can be dictated by frost formation on the joint edges, which can begin to occur below 4°C (40°F). To assist in the drying of a frost-containing joint, a water-soluble solvent, such as IPA, should be used.

Sealant should be applied as follows:

Apply the sealant in a continuous operation using a caulking gun or pump. Use a positive pressure adequate to fill the entire joint width or across the entire lap joint. Push the sealant ahead of the application nozzle, taking care to ensure complete filling of the sealant cavity.

5. Tool – Tooling Procedure

Tool the sealant with a dry tool with light pressure before a skin begins to form (typically 10 to 20 minutes). Tooling forces the sealant against the back-up material and the joint surfaces. Do not use liquid tooling aids, such as water, soap or alcohols. These materials may interfere with sealant cure and adhesion and create aesthetic issues.

Joint Design

To achieve a sufficient durability of the seal, the sealant joint should be designed so that the maximum expected sealant movement, including thermal, settlement and live load, does not exceed 25%. Dow recommends consulting with the flashing manufacturer for details on the movement capability of flashing materials as used in your joint configuration.

When detailing the sealant joints using DOWSIL™ 758 Weather Barrier Sealant, the following should be considered:

- DOWSIL™ 758 Weather Barrier Sealant may be used to seal lap joints between two pieces of flashing or other materials. Please ensure a ¼" (6 mm) sealant-to-substrate contact ("bite") on each side of the lap joint and minimum 1/16" (1.5 mm) sealant depth.
- The minimum width of a perimeter or "hourglass" joint should be ¼" (6 mm). For joints between ¼" to ½" (6-12 mm) wide, a minimum seal depth of ¼" (6 mm) is required.
- For joints above ½" (12 mm wide), a width-to-depth ratio of 2:1 should be used up to a maximum depth of ½" (12 mm).
- Joints in excess of 1" (25 mm) wide are possible, but sealant depth should not exceed ½" (12 mm). Specific recommendations should be obtained from Dow for any joints in excess of 3" (75 mm).
- In applications where fillet-type joints are used, a minimum ¼" (6 mm) sealant bite is recommended for each substrate.

Contact Us

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Form No. 63-1182-01 A