

IMPERIAL COMMUNITY COLLEGE DISTRICT

IMPERIAL VALLEY COLLEGE

SPORT FIELD RESTROOM AND CONCESSION, SPORT FIELD WESTSIDE LIGHTING, AND BORDER LINK ANTENNA

380 EAST ATEN RD.
IMPERIAL, CA 92251
(760) 352-8320

BOARD OF SCHOOL TRUSTEES:

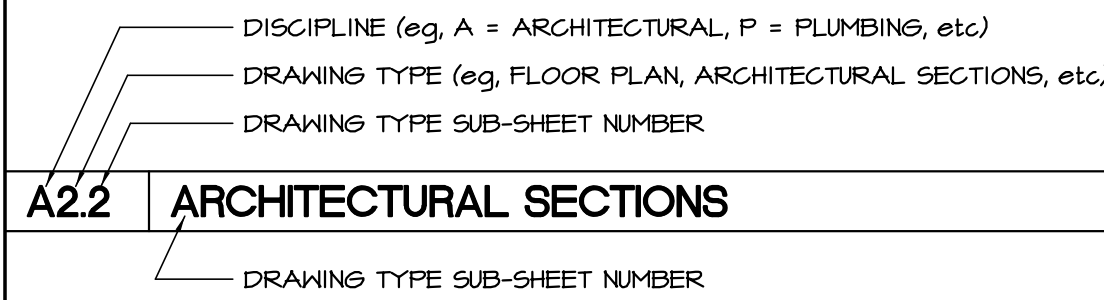
ROMUALDO J. MEDINA - CLERK KARLA SIGMOND - PRESIDENT DR. LENNOR M. JOHNSON - SECRETARY

ISABEL SOLIS
AREA #4
JERRY HART
AREA #3

HORTENCIA ARMENDARIZ
AREA #1

STEVEN TAYLOR
AREA #7
(EMPTY)
AREA #5

SHEET INDEX KEY / KEY PLAN



GENERAL NOTES

1. EXAMINATION OF SITE AND CONTRACT DOCUMENTS:
EACH BIDDER SHALL VISIT THE SITE OF THE PROPOSED WORK AND FULLY ACQUAINT HIMSELF WITH THE CONDITIONS RELATING TO THE CONSTRUCTION AND LABOR SO THAT HE MAY FULLY UNDERSTAND THE FACILITIES, DIFFICULTIES AND RESTRICTIONS ATTENDING THE EXECUTION OF THE WORK UNDER THE CONTRACT. BIDDERS SHALL THOROUGHLY EXAMINE AND BE FAMILIAR WITH THE DRAWINGS AND PROJECT MANUAL, THE FAILURE OR OMISSION OF ANY BIDDER TO RECEIVE OR EXAMINE ANY CONTRACT, FORM, INSTRUMENT, APPENDIX OR OTHER DOCUMENT OR TO VISIT THE SITE AND ACQUAINT HIMSELF WITH CONDITIONS THERE EXISTING SHALL IN NO WISE RELIEVE ANY BIDDER FROM OBLIGATIONS WITH RESPECT TO HIS BID OR TO THE CONTRACT. THE SUBMISSION OF A BID SHALL BE TAKEN AS PRIMA FACIE EVIDENCE OF COMPLIANCE WITH THIS SECTION. THE ARCHITECT SHALL BE NOTIFIED PRIOR TO BID OF ANY UNUSUAL CONDITIONS OR DISCREPANCIES IN THE CONTRACT DOCUMENTS OR INTENT OF WORK TO BE ACCOMPLISHED, WHEREIN A CLARIFICATION OR APPENDIX MAY BE ISSUED.

2. PROJECT SCOPE:
TO PROVIDE THE DISTRICT WITH (1) NEW RESTROOM/CONCESSION FACILITY (BUILDING 500) AND SPORT FIELD LIGHTING, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
1. TO BE CONSTRUCTED OF CONCRETE MASONRY BEARING WALLS, METAL STUD NON-BEARING WALLS, BUILT UP ROOF OVER STEEL BEAMS AND COVERED ENTRIES SUPPORTED WITH STEEL COLUMNS AND METAL DECK.
2. SITE IMPROVEMENTS.
PROVIDE SITE CONCRETE AT PERIMETER OF NEW BUILDING.

3. GEOLOGICAL AND SOILS REPORT:
A GEOLOGICAL INVESTIGATION REPORT HAS BEEN ACCOMPLISHED FOR THE SITE AND IS ON FILE AT COUNTY OF IMPERIAL, ARCHITECTS OFFICE, AND SOILS ENGINEERS OFFICE. SOILS REPORT NUMBER L122(11), JUNE 2022.

SOILS ENGINEER: LANDMARK, INC.
780 NORTH 4TH STREET
EL CENTRO, CALIFORNIA 92243
(760) 310-3000

4. CODES AND STANDARDS:
APPLICABLE CODES:
ALL WORK SHALL CONFORM TO 2019 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24, CCR
2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
(2019 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2019 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
(2017 NATIONAL ELECTRICAL CODE AND 2019 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
(2018 INTERNATIONAL MECHANICAL CODE AND 2019 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
(2018 INTERNATIONAL PLUMBING CODE AND 2019 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2019 CALIFORNIA FIRE CODE (CFC), PART 7, TITLE 24 CCR
(2018 INTERNATIONAL FIRE CODE AND 2019 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
(2019 INTERNATIONAL EXISTING BUILDING CODE AND 2019 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 12, TITLE 24 CCR
2019 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 18 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2016 ASHRAE 111/129A B44-B3 SAFETY CODE FOR ELEVATORS AND ESCALATORS
(PER 2019 CBC PART 2 04 19.1)

PARTIAL LIST OF APPLICABLE STANDARDS:
NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED) 2016 EDITION
NFPA 14 STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED) 2016 EDITION
NFPA 17 STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS 2011 EDITION
NFPA 17A STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS 2011 EDITION
NFPA 20 STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION 2016 EDITION
NFPA 22 STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION 2013 EDITION
NFPA 24 STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED) 2016 EDITION
NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED) 2016 EDITION
NFPA 80 STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES 2016 EDITION
NFPA 2001 STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED) 2015 EDITION
UL 300 STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT 2005 EDITION (R2010)
UL 464 AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES 2003 EDITION
UL 521 STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS 1999 EDITION
UL 1471 STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED 2002 EDITION (R2010)
ICC 300 STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS 2011 EDITION

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (6F1) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.
SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

GENERAL NOTES

5. TESTING AND INSPECTION:
A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.

A DSA CERTIFIED PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR. THIS PROJECT SHALL REQUIRE ALL ITEMS PER DSA-109 LIST OF REQUIRED STRUCTURAL TESTS & SPECIAL INSPECTIONS, INSPECTOR OF RECORD, CLASS 2.

WORK EXEMPT FROM SPECIAL INSPECTION AND STRUCTURAL TESTING, THE PROJECT INSPECTOR SHALL VERIFY ALL CONSTRUCTION COMPLIES WITH THE APPROVED CONSTRUCTION DOCUMENTS (SEE TESTING AND INSPECTION EXEMPTION KEY).

52 SOILS #2
C1 CONCRETE / MASONRY #1
C2 CONCRETE / MASONRY #2
C3 CONCRETE / MASONRY #3
C4 CONCRETE / MASONRY #4
C5 CONCRETE / MASONRY #5
H1 HOLDINGS #1
H2 HOLDINGS #2
H3 HOLDINGS #3
H4 HOLDINGS #4
H5 HOLDINGS #5
H6 HOLDINGS #6
H7 HOLDINGS #7

6. CHANGES TO APPROVED DRAWINGS:
CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN APPENDIX OR CONSTRUCTION CHANGE DOCUMENT APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.

7. DEFERRED APPROVALS:
NONE THIS PROJECT.

8. DSA CLOSE-OUT CERTIFICATION:
NONE THIS PROJECT.

9. CONSTRUCTION FIRE SAFETY:
CONTRACTOR IS RESPONSIBLE FOR FIRE SAFETY DURING DEMOLITION AND CONSTRUCTION AND SHALL COMPLY WITH CFC 2019 CHAPTER 33.

10. LOCAL ORDINANCES:
GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

11. BUILDING DATA:
BUILDING 500 - RESTROOM/CONCESSION
OCCUPANCY: B
CONSTRUCTION TYPE: TYPE II-B
FIRE SPRINKLER SYSTEM: NONE
NUMBER OF STORIES: 1
CONSTRUCTION AREA:
BUILDING AREA: 2,041 SQ FT
COVERED ENTRY: 1,505 SQ FT
TOTAL AREA: 3,552 SQ FT
ALLOWABLE AREA: 23,000 SQ FT (TABLE 506.2)
AREA INCREASE: NONE
5592 < 23,000 = OK

SHEET INDEX

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APPROVALS

PROJECT BIDDING

BASE BID:
BASE BID SHALL INCLUDE ALL WORK SHOWN ON CONTRACT DOCUMENTS AS REQUIRED FOR THE CONSTRUCTION OF THE SPORT FIELD RESTROOMS, SPORT FIELD LIGHTING, CAMPUS LIGHTING AND BORDER LINK ANTENNA. THE BASE BID INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING ITEMS:
1. PROVIDE MISC SITE DEMOLITION AS REQUIRED TO COMPLETE THE PROJECT.
2. PROVIDE ENGINEERED PAD.
3. PROVIDE SITE IMPROVEMENTS, INCLUDING UTILITIES TO RESTROOM AND CONCESSION BUILDING.
4. CONSTRUCT PORTION OF RESTROOM AND CONCESSION BUILDING. SEE SHEET AL.
5. INSTALL SPORT FIELD LIGHTING.
6. PROVIDE CAMPUS LIGHTING.
7. PROVIDE LANDSCAPING.

BASE BID EXCLUSIONS:
1. FURNISH NEW MUSCO SPORT FIELD LIGHTING. THE MUSCO LIGHTING AND STANDARDS WILL BE FURNISHED BY MUSCO.
2. PORTION OF RESTROOM AND CONCESSION BUILDING. CONCESSION 1, STORAGE 2, SUPPLY 3, WOMEN'S DRESSING 4 AND MEN'S DRESSING 5 ARE EXCLUDED FROM THE BASE BID.

ALTERNATE ADD 1
ADD TO BASE BID
ALTERNATE ADD 1 SHALL INCLUDE ALL WORK SHOWN ON CONTRACT DOCUMENTS AS REQUIRED FOR THE CONSTRUCTION OF THE SPORT CONCESSION. ALTERNATE ADD 1 INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING ITEMS:
1. PROVIDE CONCESSION 1, STORAGE 2, SUPPLY 3.
2. PROVIDE COVERED OUTDOOR SHADE ADJACENT TO CONCESSION.

ALTERNATE ADD 2
ADD TO BASE BID
ALTERNATE ADD 2 SHALL INCLUDE ALL WORK SHOWN ON CONTRACT DOCUMENTS AS REQUIRED FOR THE CONSTRUCTION OF THE SPORT CONCESSION. ALTERNATE ADD 2 INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING ITEMS:
1. PROVIDE WOMEN'S DRESSING 4 AND MEN'S DRESSING 5.

PROJECT SCOPE

THE SCOPE OF WORK FOR THIS PROJECT INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING ITEMS:
1. PROVIDE MISC SITE DEMOLITION AS REQUIRED TO COMPLETE THE PROJECT.
2. PROVIDE ENGINEERED PAD.
3. PROVIDE SITE IMPROVEMENTS, INCLUDING UTILITIES TO RESTROOM AND CONCESSION BUILDING.
4. CONSTRUCT RESTROOM AND CONCESSION BUILDING.
5. PROVIDE SPORT FIELD LIGHTING.
6. PROVIDE CAMPUS LIGHTING.
7. PROVIDE LANDSCAPING.

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SHEET COUNT: 87

Sanders, INC.

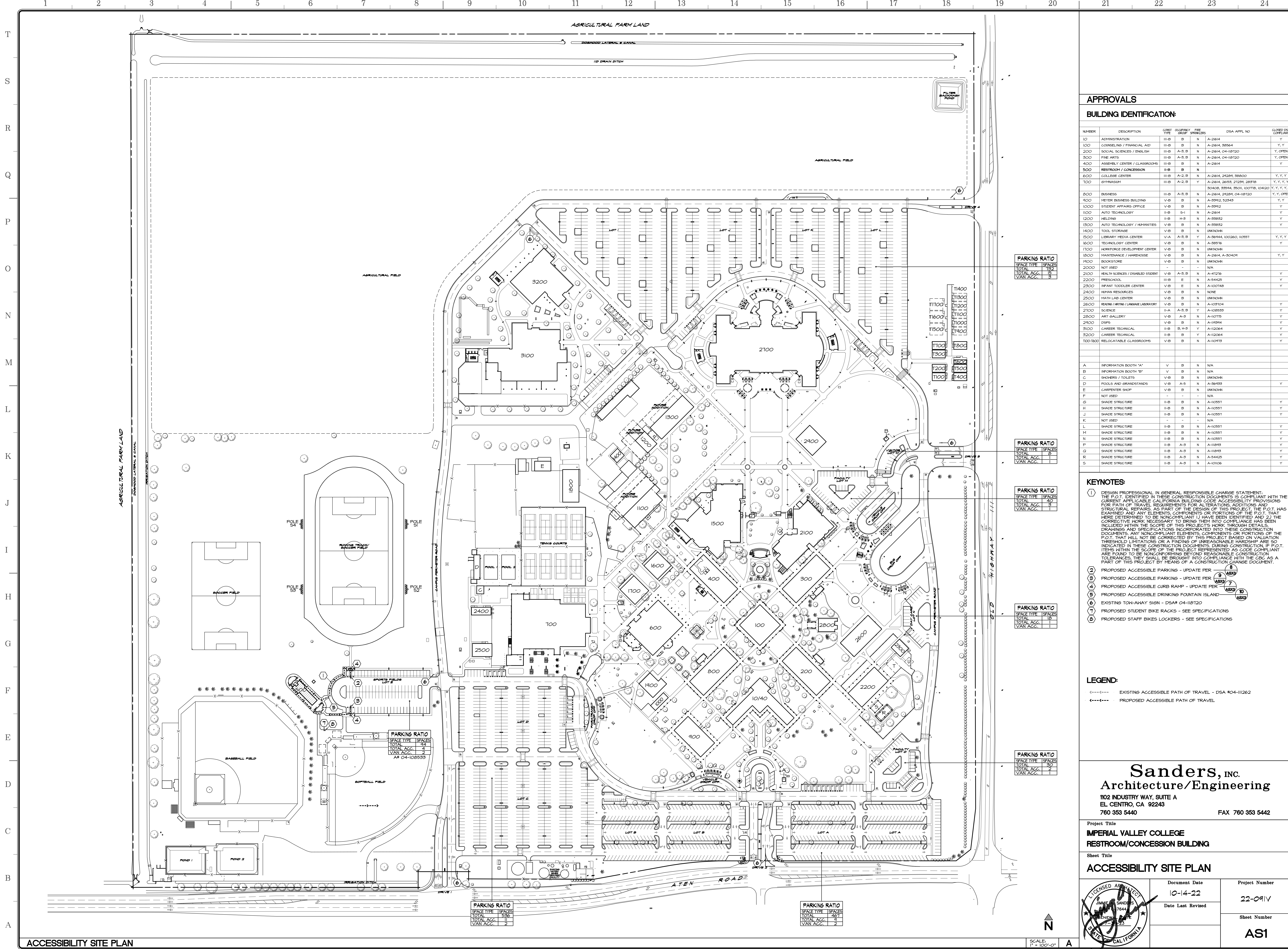
Architecture/Engineering

102 INDUSTRY WAY, SUITE A
EL CENTRO, CA 92243
760 353 5440 FAX 760 353 5442

Project Title
**IMPERIAL VALLEY COLLEGE
RESTROOM/CONCESSION BUILDING**

Sheet Title
TITLE SHEET - GENERAL NOTES, SHEET INDEX

LICENSED ARCHITECT JAMES SANDERS 764-764-7644 STATE OF CALIFORNIA	Document Date 10-14-22	Project Number 22-091V
	Date Last Revised	Sheet Number T



APPROVALS

BUILDING IDENTIFICATION:

NUMBER	DESCRIPTION	CONC	OCCUPANCY	FIRE	DSA APPL. NO.	CLOSED DSA COMPLANT
10	ADMINISTRATION	III-B	B	N	A-2614	Y
100	COUNSELING / FINANCIAL AID	III-B	B	N	A-2614, 35564	Y, Y
200	SOCIAL SCIENCES / ENGLISH	III-B	A-3, B	N	A-2614, 04-18120	Y, OPEN
300	FINE ARTS	III-B	A-3, B	N	A-2614, 04-18120	Y, OPEN
400	ASSEMBLY CENTER / CLASSROOMS	III-B	B	N	A-2614	Y
500	RESTROOM / CONCESSION	III-B	B	N		Y
600	COLLISE CENTER	III-B	A-3, B	N	A-2614, 21294, 28316	Y, Y, Y, Y
1000	GYMNASIUM	III-B	A-2, B	Y	A-2614, 26035, 21294, 28316	Y, Y, Y, Y
800	BUSINESS	III-B	A-3, B	N	A-2614, 21294, 28316	Y, Y, OPEN
900	MEYER BUSINESS BUILDING	V-B	B	N	A-33612, 52343	Y, Y
1000	STUDENT AFFAIRS OFFICE	V-B	B	N	A-33612	Y
1100	AUTO TECHNOLOGY	III-B	S-1	N	A-2614	Y
1200	HELDING	III-B	H-3	N	A-33632	Y
1300	AUTO TECHNOLOGY / HUMANITIES	V-B	B	N	A-33632	Y
1400	TOOL STORAGE	V-B	B	N	UNKNOWN	
1500	LIBRARY MEDIA CENTER	V-A	A-3, B	Y	A-36444, 100260, 110571	Y, Y, Y
1600	TECHNOLOGY CENTER	V-B	B	N	A-33632	Y
1700	PERFORMANCE DEVELOPMENT CENTER	V-B	B	N	UNKNOWN	
1800	MAINTENANCE / HARDWARE	V-B	B	N	A-2614, A-30404	Y, Y
1900	BOOKSTORE	V-B	B	N	UNKNOWN	
2000	NOT USED	-	-	-	NA	
2100	HEALTH SERVICES / DISABLED STUDENT	V-B	A-3, B	N	A-47216	Y
2200	PRESCHOOL	III-B	B	N	A-34425	Y
2300	INFANT TODDLER CENTER	V-B	B	N	A-100740	Y
2400	HUMAN RESOURCES	V-B	B	N	NONE	
2500	MATH LAB CENTER	V-B	B	N	UNKNOWN	
2600	READING / WRITING / LANGUAGE LABORATORY	V-B	B	N	A-103104	Y
2700	SCIENCE	II-A	A-3, B	Y	A-105533	Y
2800	ART GALLERY	V-B	A-3	N	A-10775	Y
2900	DPS	V-B	B	N	A-18944	Y
3100	CAREER TECHNICAL	II-B	B, H-3	Y	A-112064	Y
3200	CAREER TECHNICAL	II-B	B	Y	A-112064	Y
100-1000	RELOCATABLE CLASSROOMS	V-B	B	N	A-110473	Y

A	INFORMATION BOOTH "A"	V	B	N	NA	
B	INFORMATION BOOTH "B"	V	B	N	NA	
C	SHOWERS / TOILETS	V-B	B	N	UNKNOWN	
D	POOLS AND GRANDSTANDS	V-B	A-3	N	A-33632	Y
E	CARPENTER SHOP	V-B	B	N	UNKNOWN	
F	NOT USED	-	-	-	NA	
G	SHADE STRUCTURE	II-B	B	N	A-110551	Y
H	SHADE STRUCTURE	II-B	B	N	A-110551	Y
J	SHADE STRUCTURE	II-B	B	N	A-110551	Y
K	NOT USED	-	-	-	NA	
L	SHADE STRUCTURE	II-B	B	N	A-110551	Y
M	SHADE STRUCTURE	II-B	B	N	A-110551	Y
N	SHADE STRUCTURE	II-B	B	N	A-110551	Y
P	SHADE STRUCTURE	II-B	A-3	N	A-110493	Y
Q	SHADE STRUCTURE	II-B	A-3	N	A-110493	Y
R	SHADE STRUCTURE	II-B	A-3	N	A-110493	Y
S	SHADE STRUCTURE	II-B	A-3	N	A-110493	Y

KEYNOTES:

- DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE 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 P.O.T. HAS EXAMINED ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE NON-COMPLIANT. I 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 DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NON-COMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS. ITEMS IDENTIFIED AS CODE COMPLIANT ARE FOUNDING BEYOND REASONABLE CONSTRUCTION TOLERANCES. THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

- PROPOSED ACCESSIBLE PARKING - UPDATE PER 8 AB53
- PROPOSED ACCESSIBLE PARKING - UPDATE PER 9 AB53
- PROPOSED ACCESSIBLE CURB RAMP - UPDATE PER 7 AB53
- PROPOSED ACCESSIBLE DRINKING FOUNTAIN ISLAND
- EXISTING TON-ANAY SIGN - DSA# 04-18120
- PROPOSED STUDENT BIKE RACKS - SEE SPECIFICATIONS
- PROPOSED STAFF BIKES LOCKERS - SEE SPECIFICATIONS

LEGEND:

- Existing ACCESSIBLE PATH OF TRAVEL - DSA #04-11262
- Proposed ACCESSIBLE PATH OF TRAVEL

Sanders, INC.
Architecture/Engineering
 102 INDUSTRY WAY, SUITE A
 EL CENTRO, CA 92243
 760 353 5440 FAX 760 353 5442

Project Title
**IMPERIAL VALLEY COLLEGE
 RESTROOM/CONCESSION BUILDING**

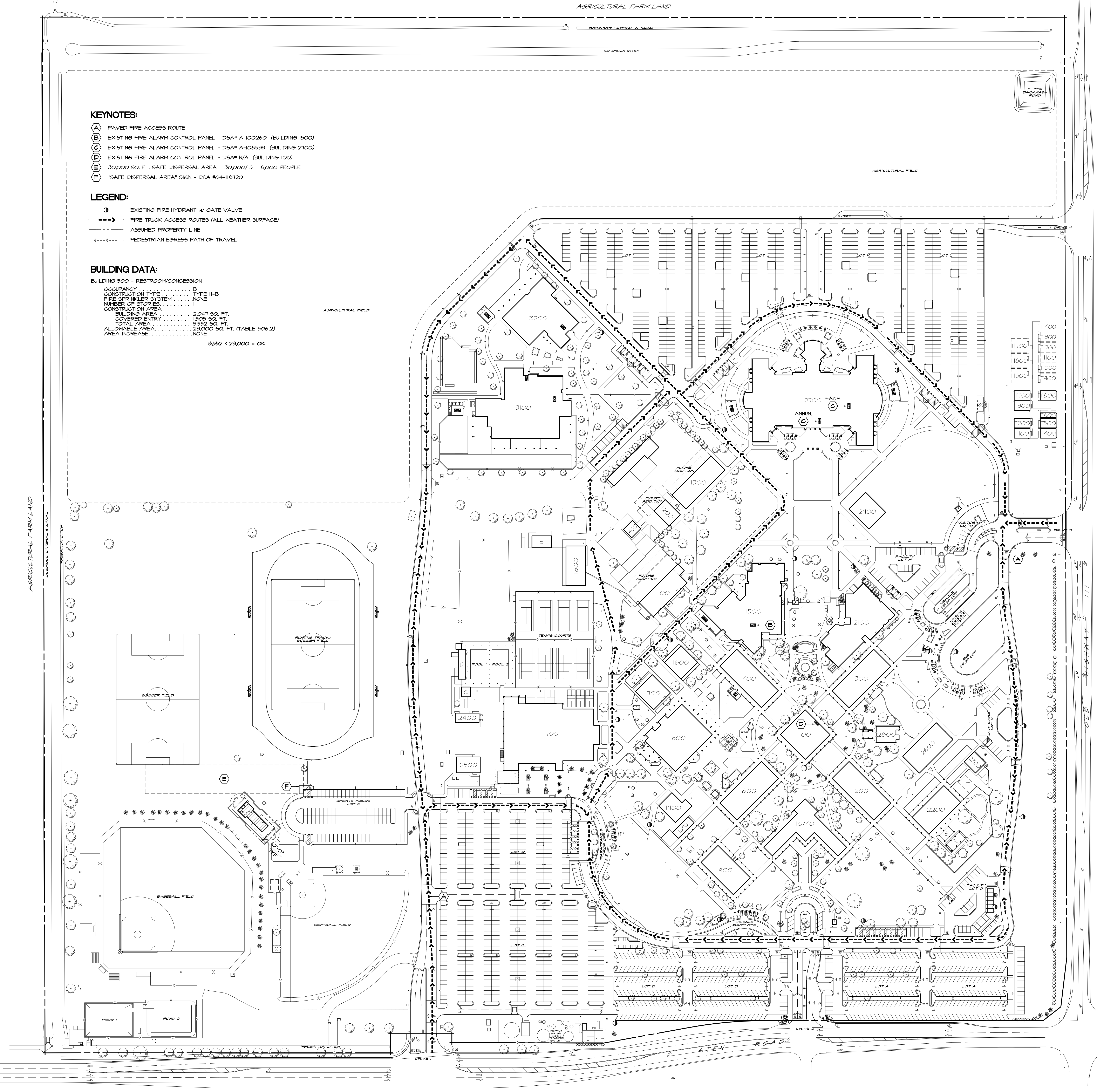
Sheet Title
ACCESSIBILITY SITE PLAN

	Document Date 10-14-22	Project Number 22-091V
	Date Last Revised	Sheet Number AS1

- KEYNOTES:**
- (A) PAVED FIRE ACCESS ROUTE
 - (B) EXISTING FIRE ALARM CONTROL PANEL - DSA# A-100260 (BUILDING 1500)
 - (C) EXISTING FIRE ALARM CONTROL PANEL - DSA# A-100533 (BUILDING 2100)
 - (D) EXISTING FIRE ALARM CONTROL PANEL - DSA# N/A (BUILDING 100)
 - (E) 30,000 SQ. FT. SAFE DISPERSAL AREA = 30,000 / 5 = 6,000 PEOPLE
 - (F) *SAFE DISPERSAL AREA* SIGN - DSA #04-118120

- LEGEND:**
- EXISTING FIRE HYDRANT w/ GATE VALVE
 - FIRE TRUCK ACCESS ROUTES (ALL WEATHER SURFACE)
 - - - - - ASSUMED PROPERTY LINE
 - PEDESTRIAN EGRESS PATH OF TRAVEL

BUILDING DATA:
 BUILDING 500 - RESTROOM/CONCESSION
 OCCUPANCY: B
 CONSTRUCTION TYPE: TYPE II-B
 FIRE SPRINKLER SYSTEM: NONE
 NUMBER OF STORIES: 1
 CONSTRUCTION AREA: 2,041 SQ. FT.
 BUILDING AREA: 1,505 SQ. FT.
 COVERED ENTRY: 5,552 SQ. FT.
 TOTAL AREA: 23,000 SQ. FT. (TABLE 506.2)
 ALLOWABLE AREA: 23,000 SQ. FT. (TABLE 506.2)
 AREA INCREASE: NONE
 3352 < 23,000 = OK



APPROVALS

BUILDING IDENTIFICATION:

NUMBER	DESCRIPTION	CONC. TYPE	OCCUPANCY GROUP	FIRE SPRINKLERS	DSA APPL. NO.	CLOSED DSA COMPL. Y.
10	ADMINISTRATION	III-B	B	N	A-2614	Y
100	COUNSELING / FINANCIAL AID	III-B	B	N	A-2614, 35564	Y, Y
200	SOCIAL SCIENCES / ENGLISH	III-B	A-3, B	N	A-2614, 04-18120	Y, OPEN
300	FINE ARTS	III-B	A-3, B	N	A-2614, 04-18120	Y, OPEN
400	ASSEMBLY CENTER / CLASSROOMS	III-B	B	N	A-2614	Y
500	RESTROOM/CONCESSION	III-B	B	N		Y
600	COLLISEUM CENTER	III-B	A-3, B	N	A-2614, 21284, 35011, 100710, 10420	Y, Y, Y, Y
1000	GYMNASIUM	III-B	A-2, B	Y	A-2614, 26028, 21291, 23978	Y, Y, Y, Y
1500	BUSINESS	III-B	A-3, B	N	A-2614, 21284, 04-18120	Y, Y, OPEN
1600	HEYER BUSINESS BUILDING	V-B	B	N	A-3362, 52343	Y, Y
1000	STUDENT AFFAIRS OFFICE	V-B	B	N	A-3362	Y
1100	AUTO TECHNOLOGY	III-B	S-1	N	A-2614	Y
1200	HELDING	III-B	H-3	N	A-3362	Y
1300	AUTO TECHNOLOGY / HUMANITIES	V-B	B	N	A-3362	Y
1400	TOOL STORAGE	V-B	B	N	UNKNOWN	Y
1500	LIBRARY MEDIA CENTER	V-A	A-3, B	Y	A-3644, 100260, 110571	Y, Y, Y
1600	TECHNOLOGY CENTER	V-B	B	N	A-3362	Y
1700	WORKFORCE DEVELOPMENT CENTER	V-B	B	N	UNKNOWN	Y
1800	MAINTENANCE / WAREHOUSE	V-B	B	N	A-2614, A-30401	Y, Y
1900	BOOKSTORE	V-B	B	N	UNKNOWN	Y
2000	NOT USED	-	-	-	N/A	
2100	HEALTH SCIENCES / DISABLED STUDENT	V-B	A-3, B	N	A-4726	Y
2200	FRESHMAN	III-B	B	N	A-3425	Y
2300	INFANT TODDLER CENTER	V-B	B	N	A-100740	Y
2400	HUMAN RESOURCES	V-B	B	N	NONE	Y
2500	MATH LAB CENTER	V-B	B	N	UNKNOWN	Y
2600	READING / WRITING / LANGUAGE LABORATORY	V-B	B	N	A-103504	Y
2700	SCIENCE	II-A	A-3, B	Y	A-105533	Y
2800	ART GALLERY	V-B	A-3	N	A-10775	Y
2900	DPS	V-B	B	N	A-18944	Y
3100	CAREER TECHNICAL	II-B	B, H-3	Y	A-12064	Y
3200	CAREER TECHNICAL	II-B	B	Y	A-12064	Y
100-1000	RELOCATABLE CLASSROOMS	V-B	B	N	A-110473	Y

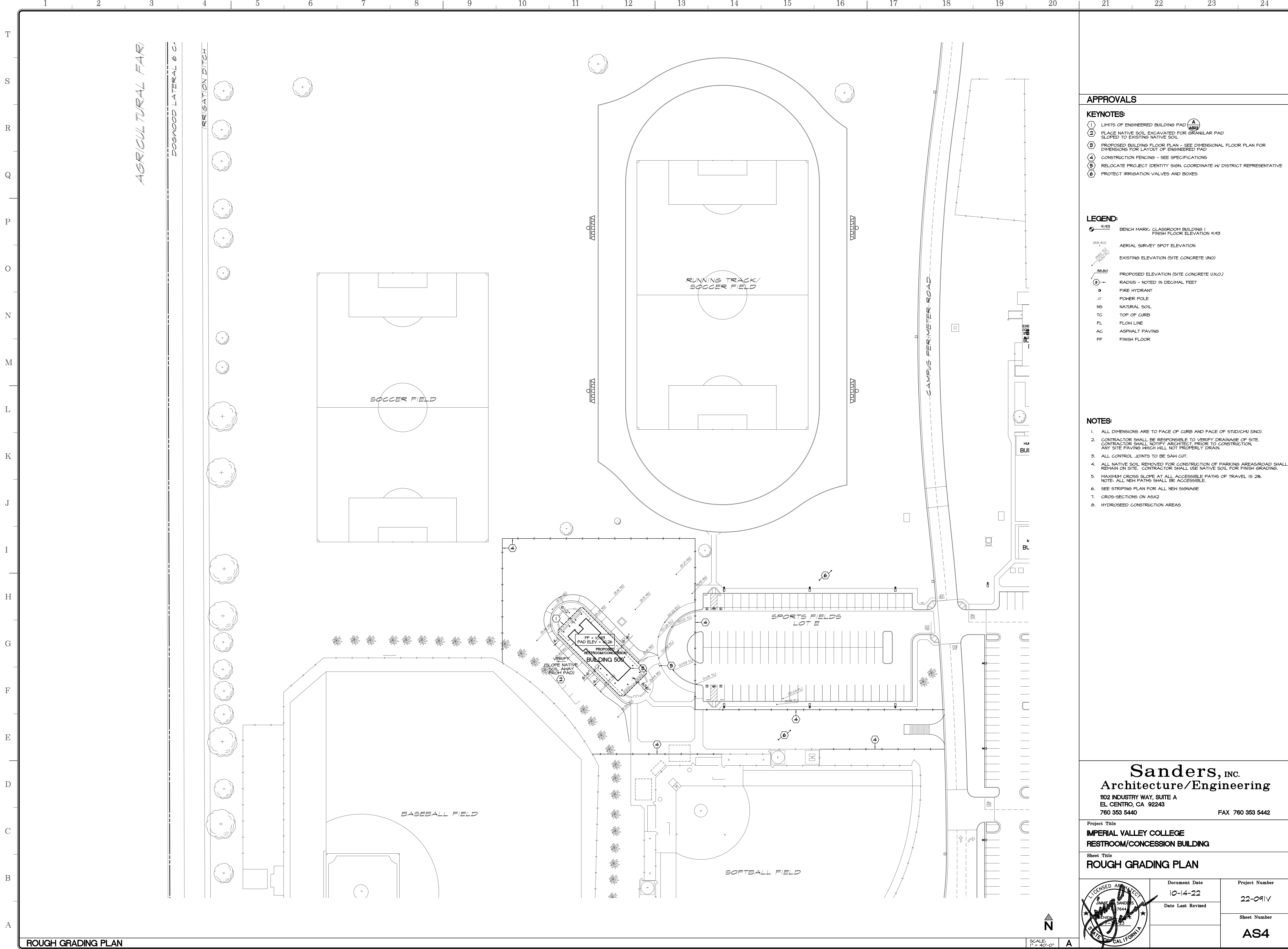
A	INFORMATION BOOTH "A"	V	B	N	N/A	
B	INFORMATION BOOTH "B"	V	B	N	N/A	
C	SHOWERS / TOILETS	V-B	B	N	UNKNOWN	
D	POOLS AND GRANDSTANDS	V-B	A-3	N	A-3362	Y
E	CARPENTER SHOP	V-B	B	N	UNKNOWN	
F	NOT USED	-	-	-	N/A	
G	SHADE STRUCTURE	II-B	B	N	A-110551	Y
H	SHADE STRUCTURE	II-B	B	N	A-110551	Y
J	SHADE STRUCTURE	II-B	B	N	A-110551	Y
K	NOT USED	-	-	-	N/A	
L	SHADE STRUCTURE	II-B	B	N	A-110551	Y
M	SHADE STRUCTURE	II-B	B	N	A-110551	Y
N	SHADE STRUCTURE	II-B	B	N	A-110551	Y
P	SHADE STRUCTURE	II-B	A-3	N	A-11045	Y
Q	SHADE STRUCTURE	II-B	A-3	N	A-11045	Y
R	SHADE STRUCTURE	II-B	A-3	N	A-11045	Y
S	SHADE STRUCTURE	II-B	A-3	N	A-11045	Y

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Project Title
**IMPERIAL VALLEY COLLEGE
 RESTROOM/CONCESSION BUILDING**

Sheet Title
FIRE ACCESS SITE PLAN

	Document Date 10-14-22	Project Number 22-091V
	Date Last Revised	Sheet Number AS2



APPROVALS

KEYNOTES:

- ① LIMITS OF ENGINEERED BUILDING PAD (A) (ASX2)
- ② PLACE NATIVE SOIL EXCAVATED FOR GRANULAR PAD SLOPED TO EXISTING NATIVE SOIL
- ③ PROPOSED BUILDING FLOOR PLAN - SEE DIMENSIONAL FLOOR PLAN FOR DIMENSIONS FOR LAYOUT OF ENGINEERED PAD
- ④ CONSTRUCTION FENCING - SEE SPECIFICATIONS
- ⑤ RELOCATE PROJECT IDENTITY SIGN, COORDINATE W/ DISTRICT REPRESENTATIVE
- ⑥ PROTECT IRRIGATION VALVES AND BOXES

LEGEND:

- 4.93 BENCH MARK, CLASSROOM BUILDING 1 FINISH FLOOR ELEVATION 4.93
- 100.40 AERIAL SURVEY SPOT ELEVATION
- 100.00 EXISTING ELEVATION (SITE CONCRETE UNO)
- 30.00 PROPOSED ELEVATION (SITE CONCRETE UNO)
- ⊖ RADIUS - NOTED IN DECIMAL FEET
- FIRE HYDRANT
- ⊕ POWER POLE
- NS NATURAL SOIL
- TC TOP OF CURB
- FL FLOW LINE
- AC ASPHALT PAVING
- FF FINISH FLOOR

NOTES:

1. ALL DIMENSIONS ARE TO FACE OF CURB AND FACE OF STUD/CHU (UNO).
2. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY DRAINAGE OF SITE. CONTRACTOR SHALL NOTIFY ARCHITECT PRIOR TO CONSTRUCTION. ANY SITE PAVING WHICH WILL NOT PROPERLY DRAIN.
3. ALL CONTROL JOINTS TO BE SAW CUT.
4. ALL NATIVE SOIL REMOVED FOR CONSTRUCTION OF PARKING AREAS/ROAD SHALL REMAIN ON SITE. CONTRACTOR SHALL USE NATIVE SOIL FOR FINISH GRADING.
5. MAXIMUM CROSS SLOPE AT ALL ACCESSIBLE PATHS OF TRAVEL IS 2%. NOTE: ALL NEW PATHS SHALL BE ACCESSIBLE.
6. SEE STRIPING PLAN FOR ALL NEW SIGNAGE.
7. CROSS-SECTIONS ON ASX2
8. HYDROSEED CONSTRUCTION AREAS

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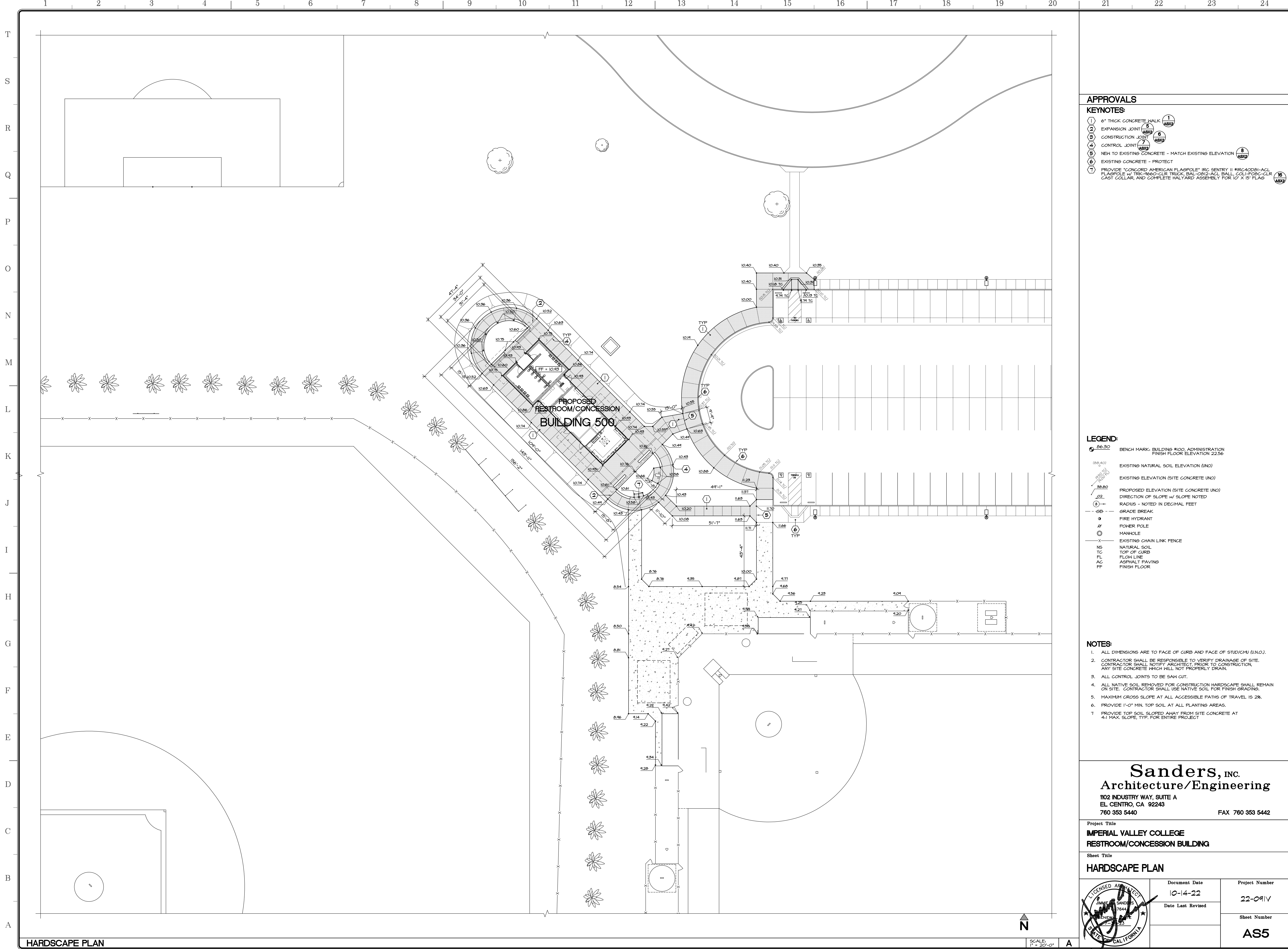
Project Title
**IMPERIAL VALLEY COLLEGE
 RESTROOM/CONCESSION BUILDING**

Sheet Title
ROUGH GRADING PLAN

	Document Date 10-14-22	Project Number 22-091V
	Date Last Revised	Sheet Number AS4

ROUGH GRADING PLAN

SCALE: 1" = 40'-0" A



APPROVALS

KEYNOTES:

- ① 6' THICK CONCRETE WALK
- ② EXPANSION JOINT
- ③ CONSTRUCTION JOINT
- ④ CONTROL JOINT
- ⑤ NEW TO EXISTING CONCRETE - MATCH EXISTING ELEVATION
- ⑥ EXISTING CONCRETE - PROTECT
- ⑦ PROVIDE CONCORD AMERICAN FLAGPOLE 182 SENTRY II 11RZ400B1-ACL FLAGPOLE W/ TRK-18650-CL15 TRUSS BAL-10B12-ACL BALL COLL-11036-CL15 CAST COLLAR, AND COMPLETE HALLYARD ASSEMBLY FOR 10' X 15' FLAG

LEGEND:

- ⊙ 86.30 BENCH MARK: BUILDING #100, ADMINISTRATION FINISH FLOOR ELEVATION 22.56
- 86.40 EXISTING NATURAL SOIL ELEVATION (N.O.)
- 86.80 EXISTING ELEVATION (SITE CONCRETE UNO)
- 22 PROPOSED ELEVATION (SITE CONCRETE UNO)
- 22 DIRECTION OF SLOPE W/ SLOPE NOTED
- RADIUS - NOTED IN DECIMAL FEET
- GEB GRADE BREAK
- FIRE HYDRANT
- POWER POLE
- MANHOLE
- X EXISTING CHAIN LINK FENCE
- NS NATURAL SOIL
- TC TOP OF CURB
- FL FLOW LINE
- AC ASPHALT PAVING
- FF FINISH FLOOR

NOTES:

1. ALL DIMENSIONS ARE TO FACE OF CURB AND FACE OF STUD/CHU (N.O.).
2. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY DRAINAGE OF SITE. CONTRACTOR SHALL NOTIFY ARCHITECT, PRIOR TO CONSTRUCTION, ANY SITE CONCRETE WHICH WILL NOT PROPERLY DRAIN.
3. ALL CONTROL JOINTS TO BE SAK CUT.
4. ALL NATIVE SOIL REMOVED FOR CONSTRUCTION HARDSCAPE SHALL REMAIN ON SITE. CONTRACTOR SHALL USE NATIVE SOIL FOR FINISH GRADINGS.
5. MAXIMUM GROSS SLOPE AT ALL ACCESSIBLE PATHS OF TRAVEL IS 2%.
6. PROVIDE 1'-0" MIN. TOP SOIL AT ALL PLANTING AREAS.
7. PROVIDE TOP SOIL SLOPED AWAY FROM SITE CONCRETE AT 4:1 MAX. SLOPE, TYP. FOR ENTIRE PROJECT.

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Project Title
**IMPERIAL VALLEY COLLEGE
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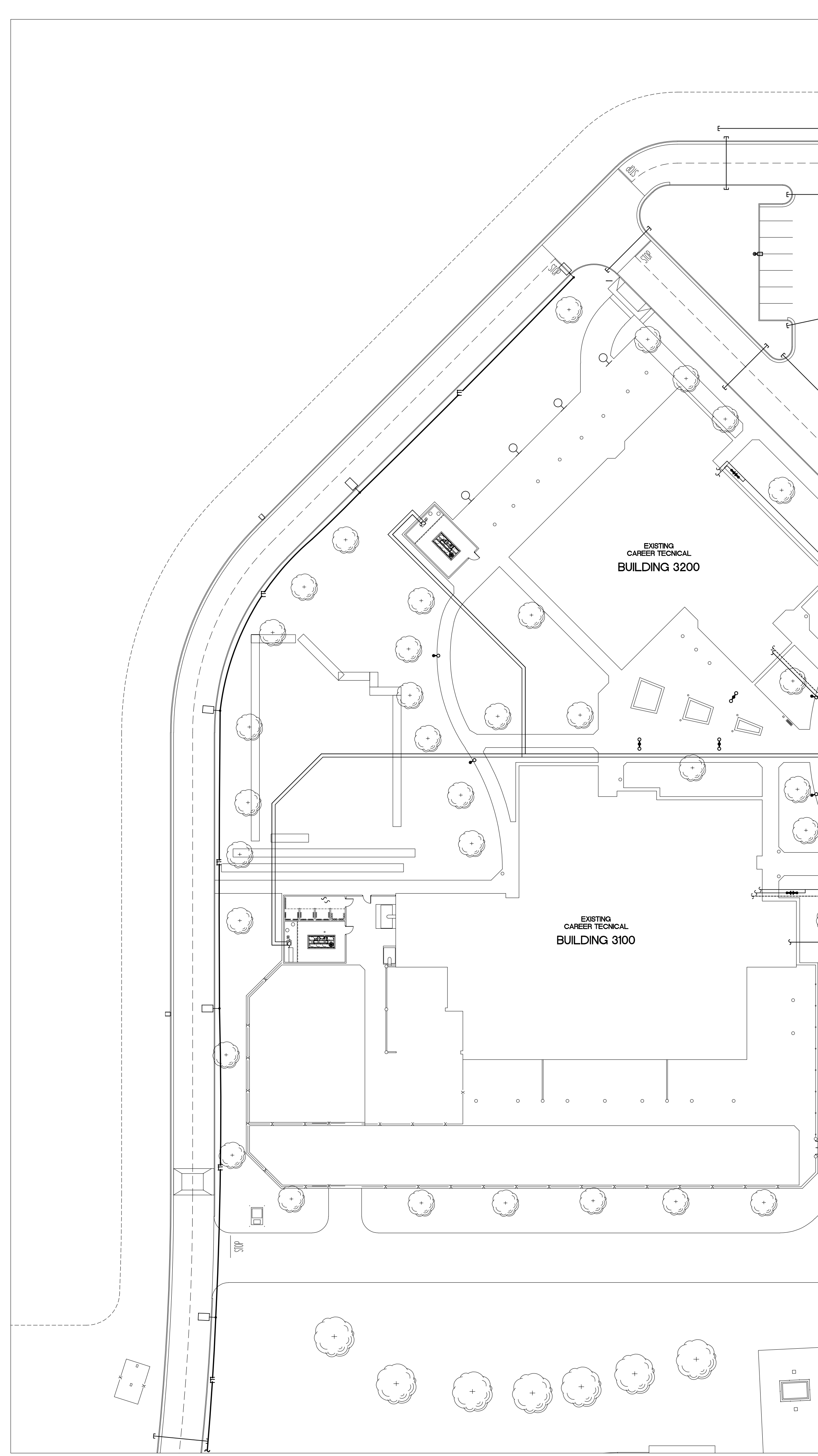
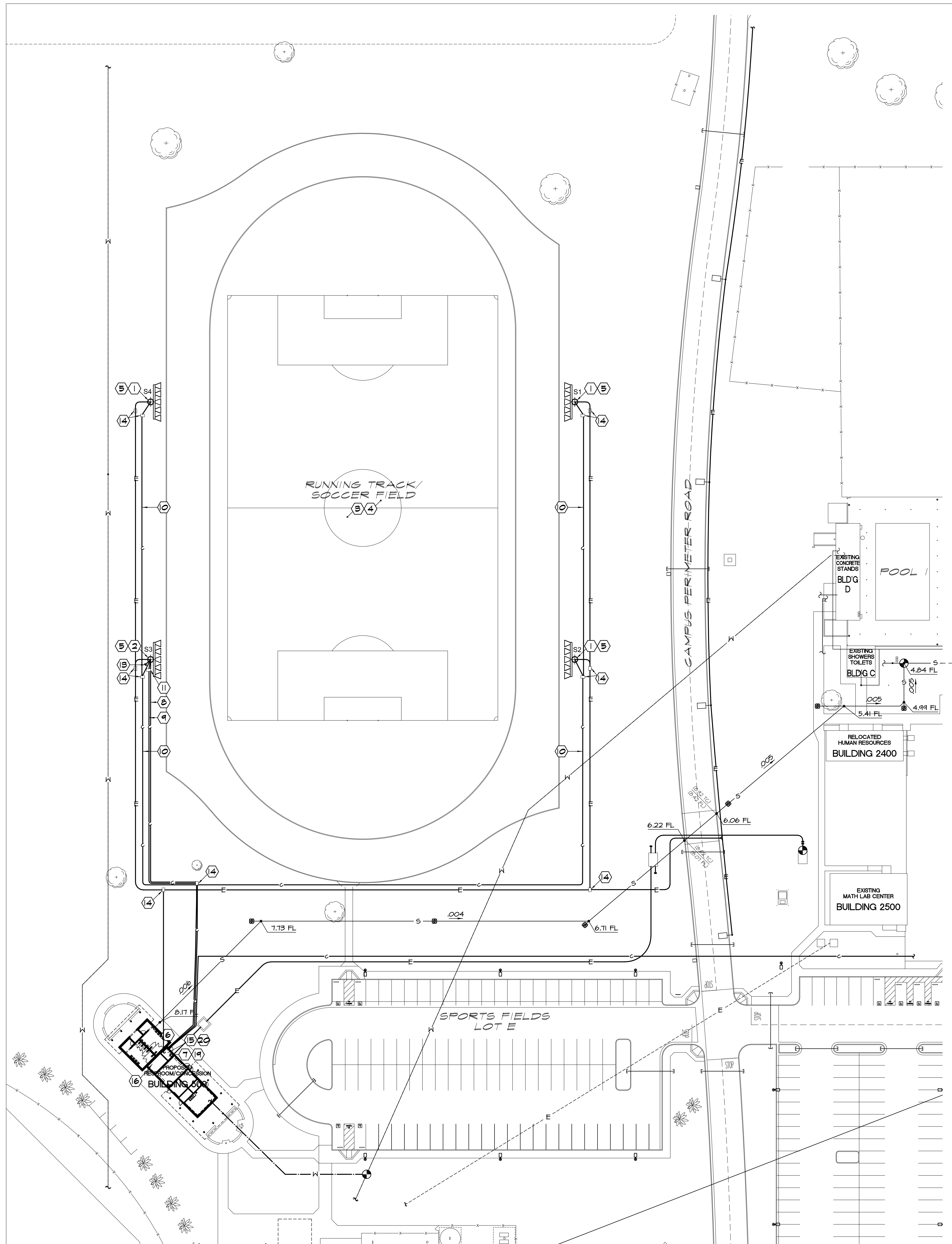
Sheet Title
HARDSCAPE PLAN

	Document Date	Project Number
	Date Last Revised	22-091V
Sheet Number		AS5

HARDSCAPE PLAN

SCALE: 1" = 20'-0"





SITE UTILITIES PLAN - SOUTH

SITE UTILITIES PLAN - NORTH

APPROVALS

KEYNOTES:

- 1 PROVIDE MUSCO SPORT FIELD LIGHT STANDARD
- 2 PROVIDE MUSCO SPORTS FIELD LIGHT STANDARD FOR BORDERLINK ANTENNA
- 3 EXISTING PLAYFIELD - NO WORK
- 4 AREA TO BE LIGHTED BY SPORTS FIELD LIGHTS
- 5 PROVIDE CAMERA MOUNT FOR FUTURE VIDEO SURVEILLANCE CAMERAS MOUNTED AT 90 FEET ABOVE GROUND LEVEL, TOTAL (2) AT EACH POLE
- 6 PROVIDE 1" CONDUIT FROM LBU TO GPS UNIT MOUNTED ON EXTERIOR WALL ADJACENT TO LBU, FIELD VERIFY EXACT LOCATION OF GPS UNIT WITH ICQE TECHNICIAN ELECTRICAL DRAWINGS
- 7 IDF ROOM, LBU UNIT LOCATION, PROVIDE A 100 AMP CIRCUIT, SEE ELECTRICAL DRAWINGS
- 8 PROVIDE (2) 3" CONDUITS FOR POWER FROM IDF TO BASE OF POLE
- 9 PROVIDE (2) 2" CONDUITS FOR FIBER JUMPERS FROM AAU (ANTENNA) TO LBU AT IDF
- 10 PROVIDE (2) 2" FROM COMMUNICATIONS VAULT TO LIGHT STANDARD FOR FUTURE VIDEO SURVEILLANCE CAMERAS
- 11 PROVIDE A NEW COMMUNICATIONS PULL BOX, JENSEN 2436 WITH HEAVY DUTY COVER
- 12 PROVIDE AND INSTALL A 24"x24"x6" PULLBOX
- 13 PROVIDE (3) 2" CONDUIT STUB OUTS AT BASE OF POLE FOR FUTURE CELL EQUIPMENT
- 14 PROVIDE AND INSTALL AN ELECTRICAL PULL BOX, SEE ELECTRICAL DRAWINGS
- 15 PROVIDE A 1.5 TON MINI SPLIT HVAC UNIT, C.U. CARRIER MN-38MAG18R-3 OUTDOOR AND A E.V. CARRIER MN-40MAG18B - 3 INDOOR, SEE ELECTRICAL DRAWINGS
- 16 PROVIDE A CONDENSATE LINE FROM THE MINI SPLIT CONDENSATE UNIT TO THE NEAREST SINK
- 17 NOT USED
- 18 PROVIDE AND RUN SINGLE-MODE FIBER LINE THROUGH EXISTING CONDUIT AND COMMUNICATIONS VAULTS
- 19 PROVIDE A SINGLE-MODE OS2 FIBER RATED LINE FOR OUTSIDE USE THAT WILL RUN FROM THE IDF/LBU UNIT AT BUILDING 500 TO THE MDF AT BUILDING #1
- 20 PROVIDE A CONDENSATE LINE FROM THE MINI SPLIT CONDENSATE UNIT TO THE NEAREST SINK

LEGEND:

- S --- EXISTING SEWER LINE
- W --- EXISTING WATER LINE
- E --- EXISTING ELECTRICAL LINE
- C --- EXISTING COMMUNICATIONS LINE
- SD --- EXISTING STORM DRAIN LINE
- F --- EXISTING FIRE WATER LINE
- S --- NEW SEWER LINE - SEE PLUMBING DRAWINGS
- W --- NEW WATER LINE - SEE PLUMBING DRAWINGS
- E --- NEW ELECTRICAL LINE - SEE ELECTRICAL DRAWINGS
- C --- NEW COMMUNICATIONS LINE
- FIRE HYDRANT
- MANHOLE
- ⊕ POWER POLE
- ⊙ LIGHT STANDARD

NOTES:

1. CONTRACTOR SHALL REPAIR OR REPLACE ANY LINE BROKEN OR DAMAGED DURING COURSE OF PLACEMENT OF NEW LINES, CONSTRUCTION OF TRENCHING, OR HEAVY EQUIPMENT ON SITE AT NO COST TO OWNER.
2. PRIOR TO ANY EXCAVATION THE SITE SHALL BE VISITED BY A "DIG ALERT" COMPANY FOR THE PURPOSE OF LOCATING ALL UNDERGROUND UTILITY LINES.
3. CAP ALL STUBBED OUT CONDUIT FOR FUTURE.
4. PROVIDE PULL STRING FOR ALL CONDUIT.
5. ALL UTILITY LINES ARE EXISTING UNLESS NOTED OTHERWISE - PROTECT.
6. SAW CUT EXISTING SITE CONCRETE TO NEAREST CONTROL JOINT FOR PROPOSED UTILITIES, REPLACEMENT CONCRETE TO BE FLUSH PER (B) SIM.
5. PROVIDE TRENCHING PER (14) (15) (B) SIM.

WORK BY OTHERS (ICQE):

1. PROVIDE FIBER FROM MDF TO POLE MOUNTED EQUIPMENT
2. PROVIDE DC CONDUCTORS FROM BBU TO POLE MOUNTED RRU'S
3. PROVIDE GPS UNIT ON EXTERIOR WALL ADJACENT TO BBU/MDF LOCATION. PROVIDE CABLES FROM GPS UNIT TO BBU
4. PROVIDE POLE MOUNTED ANTENNAS AND RRU'S
5. PROVIDE BBU AT AT SHOW LOCATION WITH AN ENCLOSURE

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Project Title
**IMPERIAL VALLEY COLLEGE
 RESTROOM/CONCESSION BUILDING**

Sheet Title
SITE UTILITIES PLAN

	Document Date 10-14-22	Project Number 22-091V
	Date Last Revised	Sheet Number AS6

SCALE: 1" = 40'-0"

SCALE: 1" = 40'-0"

NOTES:

1. ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON-SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SHALES, AREA DRAINS, NATURAL DRAINAGE COURSES OR RIND.
2. STOCKPILES OF EARTH AND OTHER CONSTRUCTION RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER.
3. WATER USED FOR DUST CONTROL TO BE NON-POTABLE IRRIGATION WATER.
4. FUELS, OILS, SOLVENTS AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTINGS AND ARE NOT TO CONTAMINATE THE SOIL AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS MAY NOT BE WASHED INTO THE DRAINAGE SYSTEM.
5. EXCESS OR WASTE CONCRETE MAY NOT BE WASHED INTO THE PUBLIC WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISION SHALL BE MADE TO RETAIN CONCRETE WASTES ON-SITE UNTIL THEY CAN BE DISPOSED OF A SOLID WASTE.
6. TRASH AND CONSTRUCTION RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.
7. SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC WAY. ACCIDENTAL DEPOSITIONS MUST BE SWEPT UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS.

8. ANY SLOPES WITH DISTURBED SOILS OR DENIED OF VEGETATION MUST BE STABILIZED SO AS TO INHIBIT EROSION BY WIND AND WATER.
 9. THE FOLLOWING BMPs AS OUTLINED IN, BUT NOT LIMITED TO, THE CALIFORNIA STORMWATER QUALITY ASSOCIATION, CALIFORNIA STORMWATER BEST MANAGEMENT PRACTICE HANDBOOK-CONSTRUCTION, JANUARY 2003, OR THE LATEST REVISED EDITION, MAY APPLY DURING THE CONSTRUCTION OF THIS PROJECT (ADDITIONAL MEASURES MAY BE REQUIRED IF DEEMED APPROPRIATE BY COUNTY INSPECTORS).
- EROSION CONTROL
 EC-1 SCHEDULING, MATERIAL DELIVERY AND STORAGE
 EC-2 PRESERVATION OF EXISTING VEGETATION
- SEDIMENT CONTROL
 SC-10 STORM DRAIN INLET PROTECTION
- WIND EROSION CONTROL
 WE-1 WIND EROSION CONTROL
- TRACKING CONTROL
 TC-1 STABILIZED CONSTRUCTION ENTRANCE/EXIT
- NON-STORMWATER MANAGEMENT CONTROL
 NS-1 WATER CONSERVATION PRACTICES
 NS-2 VEHICLE AND EQUIPMENT CLEANING
 NS-3 VEHICLE AND EQUIPMENT FUELING
- WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL
 WM-1 MATERIAL DELIVERY AND STORAGE
 WM-2 MATERIAL USE
 WM-3 STOCKPILE MANAGEMENT

KEYNOTES:

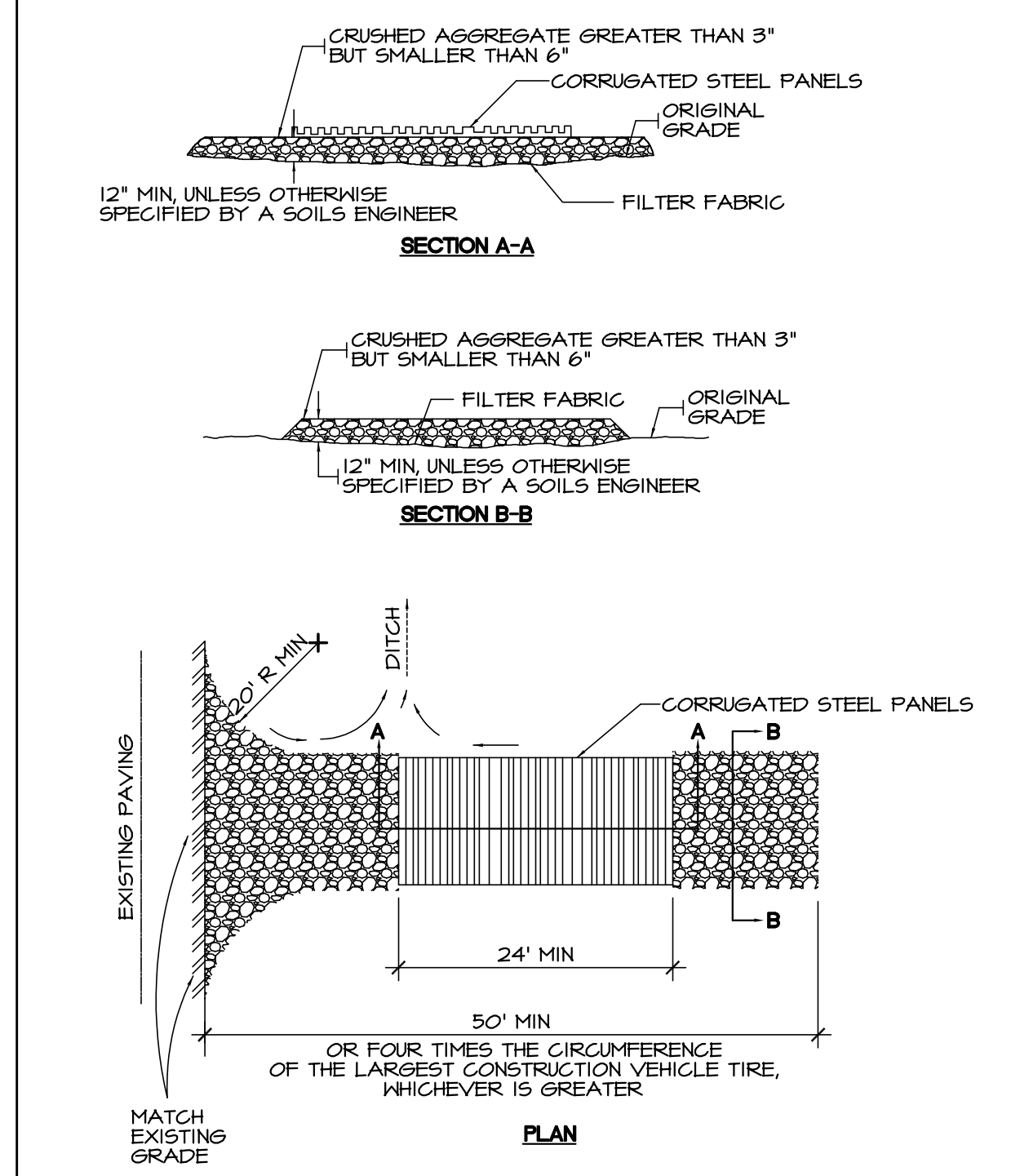
- 1 CONSTRUCTION FENCING BY CONTRACTOR
 - 2 LIMIT OF EXCAVATION FOR BUILDING PAD
 - 3 PROVIDE STABILIZED CONSTRUCTION SITE EXIT
- (A) EXISTING CHAIN LINK FENCE

LEGEND:

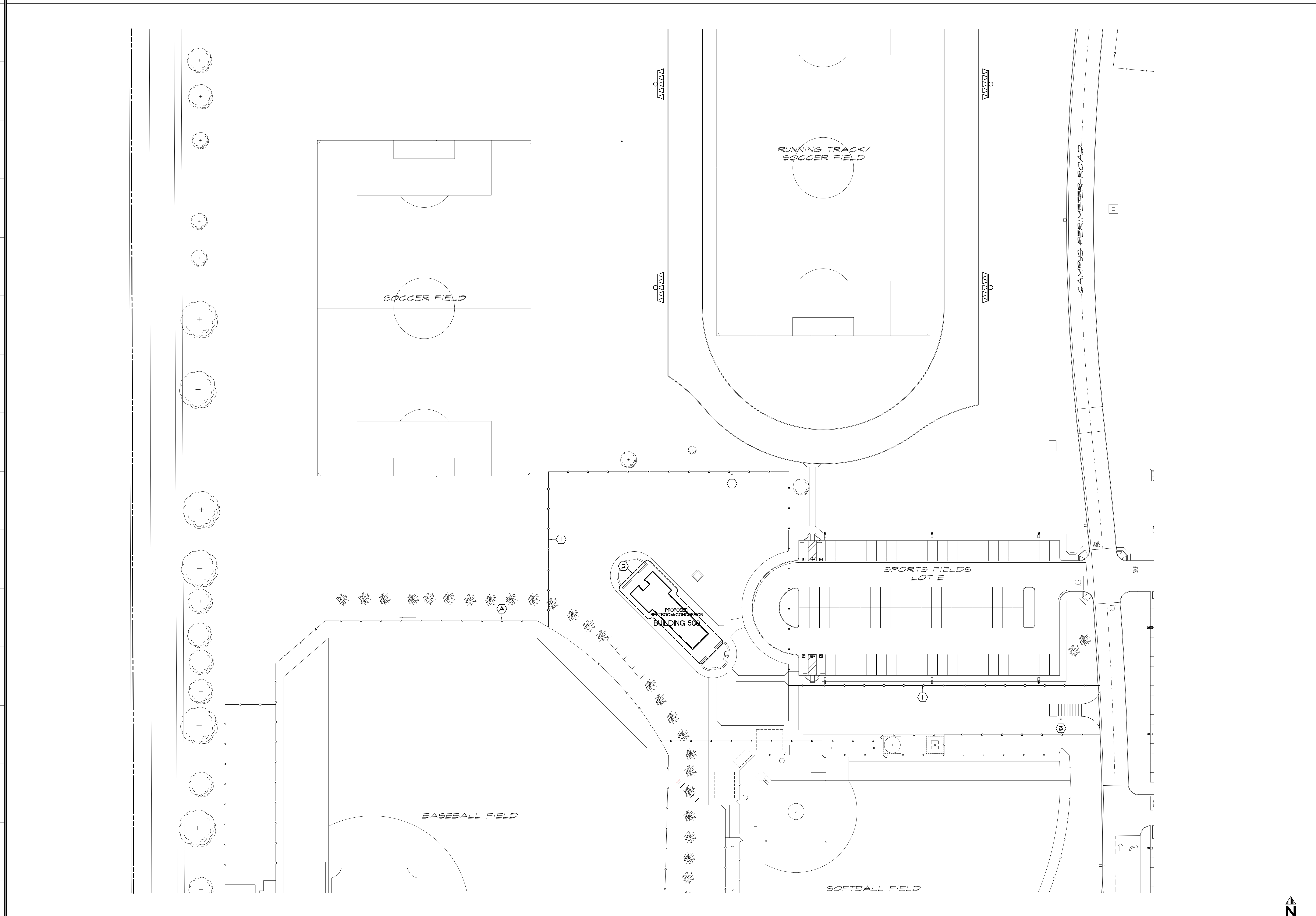
- 66.30 BENCH MARK: NGS DESIGNATION V1225, PID D20430
 NS2 50 56.5447N, H113 91 42.59530
 (NGS ELEVATION ADJUSTED +200)
- (86,40) EXISTING NATURAL SOIL ELEVATION (AND)
- EXISTING ELEVATION (SITE CONCRETE UND)
- FIRE HYDRANT
- POWER POLE
- NATURAL SOIL
- TOP OF CURB
- FLOW LINE
- ASPHALT PAVING
- FINISH FLOOR

APPROVALS

APPROVALS



STABILIZED ENTRANCE/EXIT SCALE: NTS **B**



EROSION AND SEDIMENTATION CONTROL PLAN

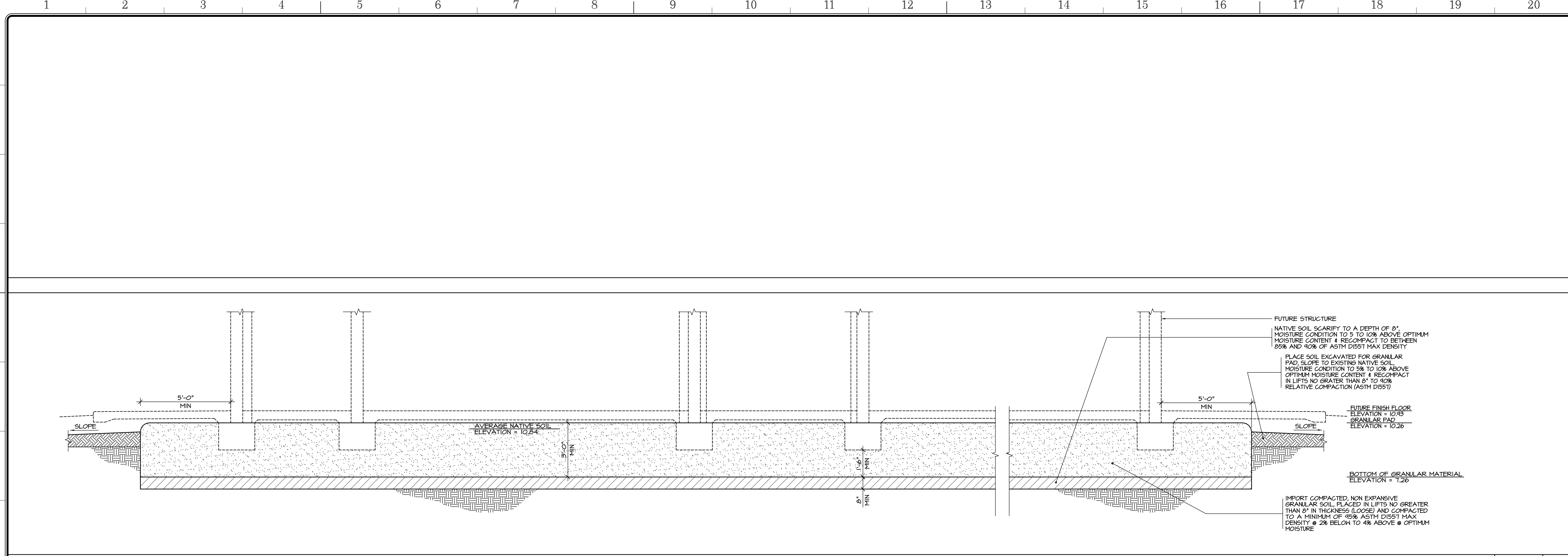
SCALE: 1" = 40'-0" **A**

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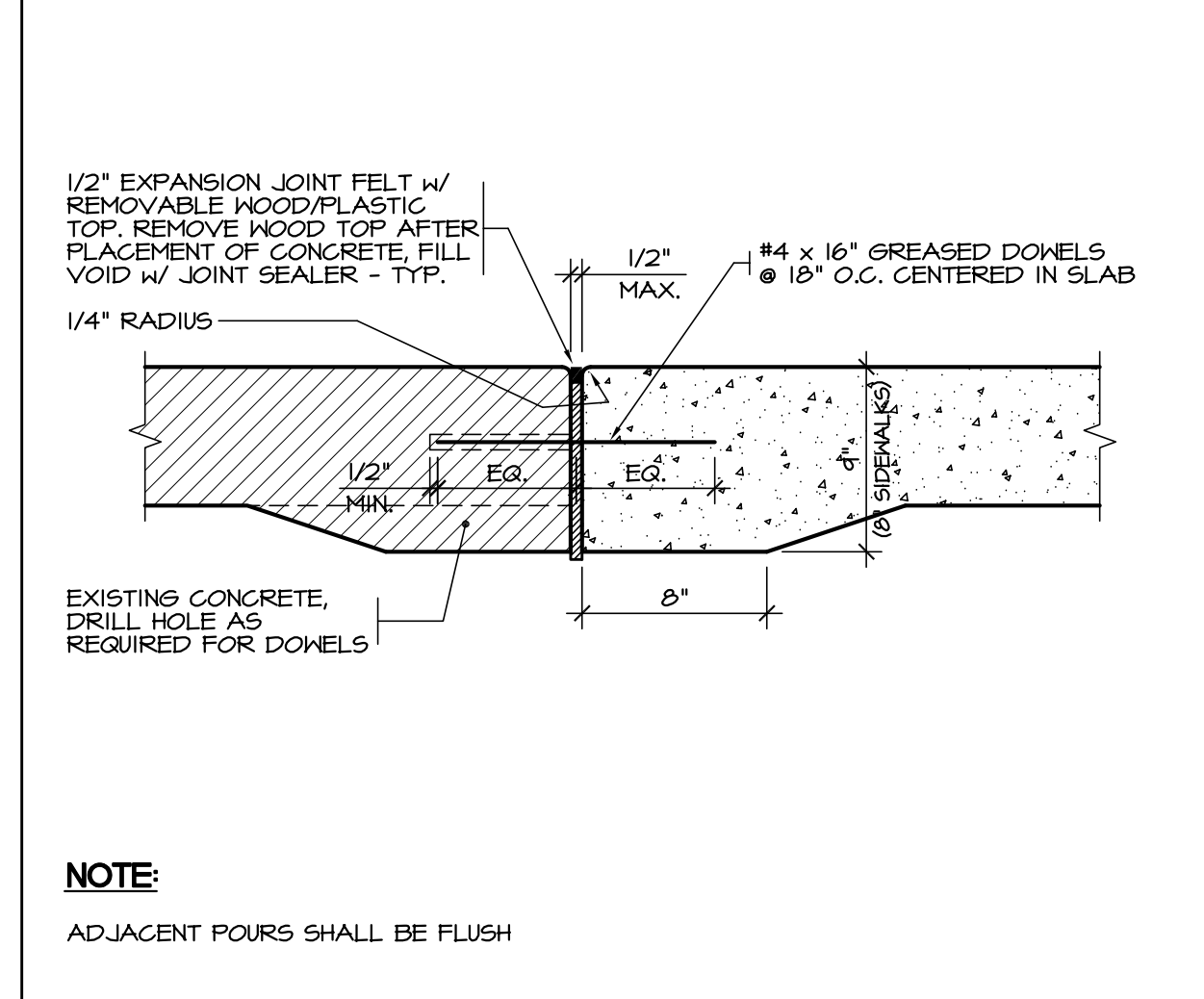
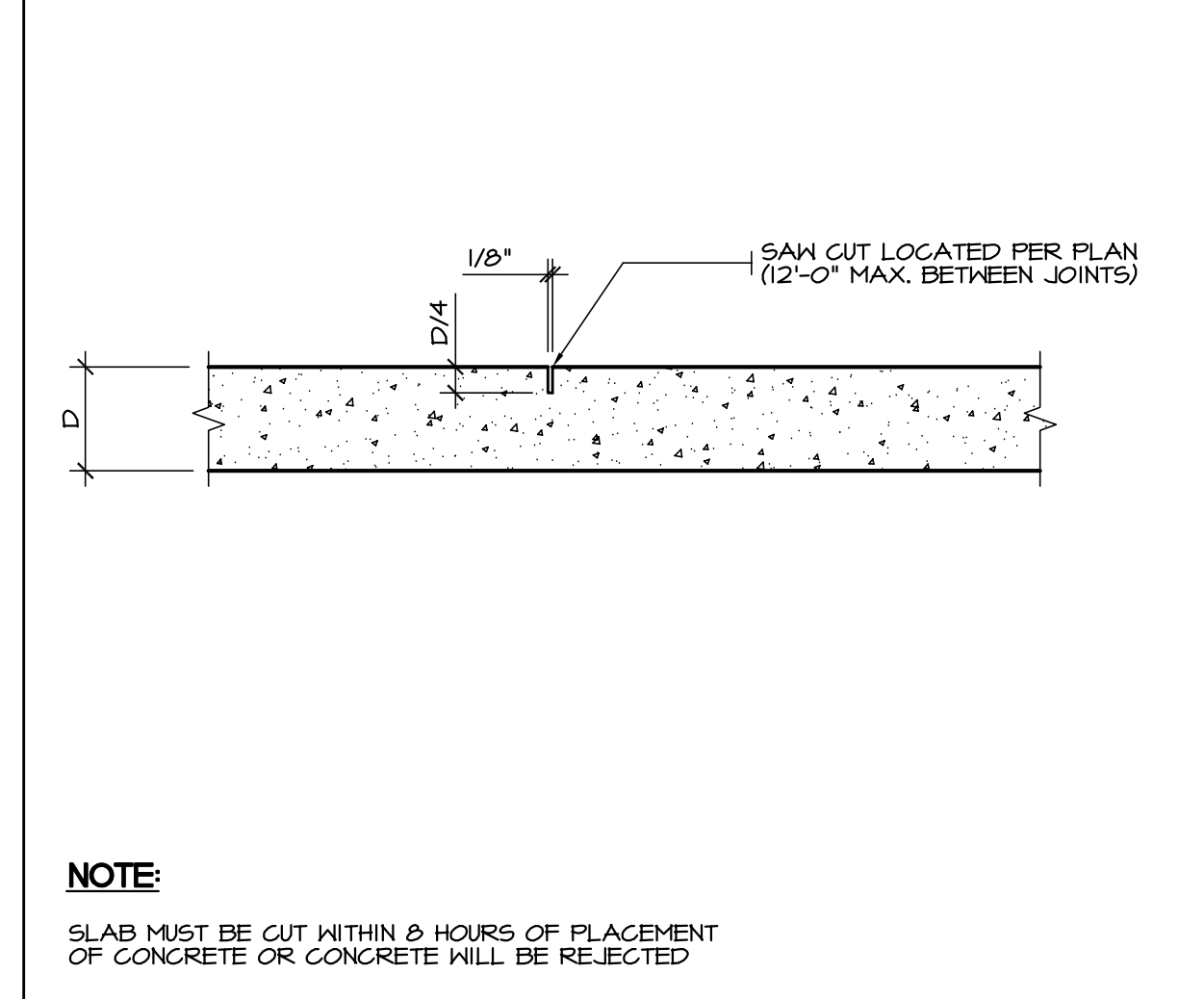
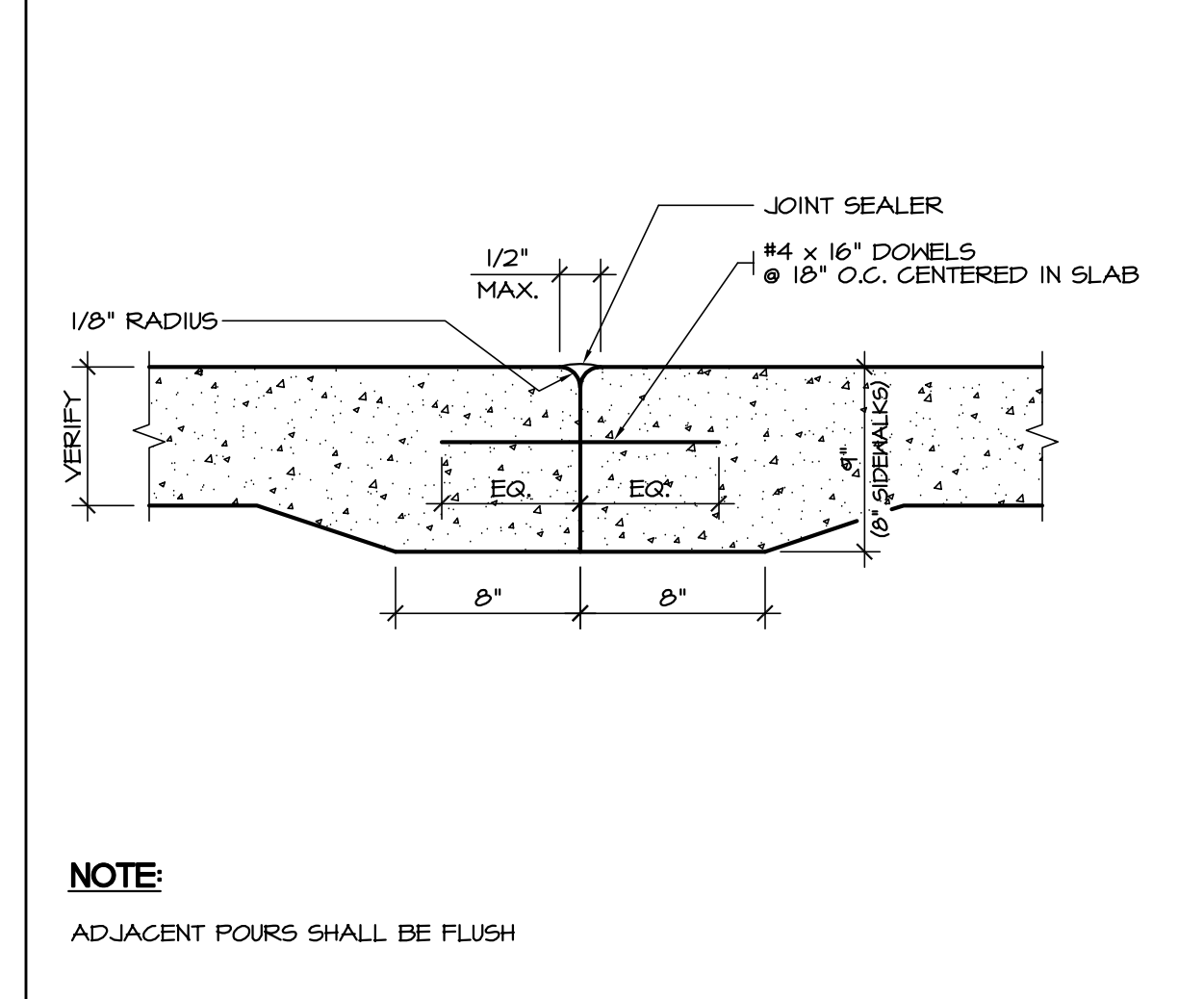
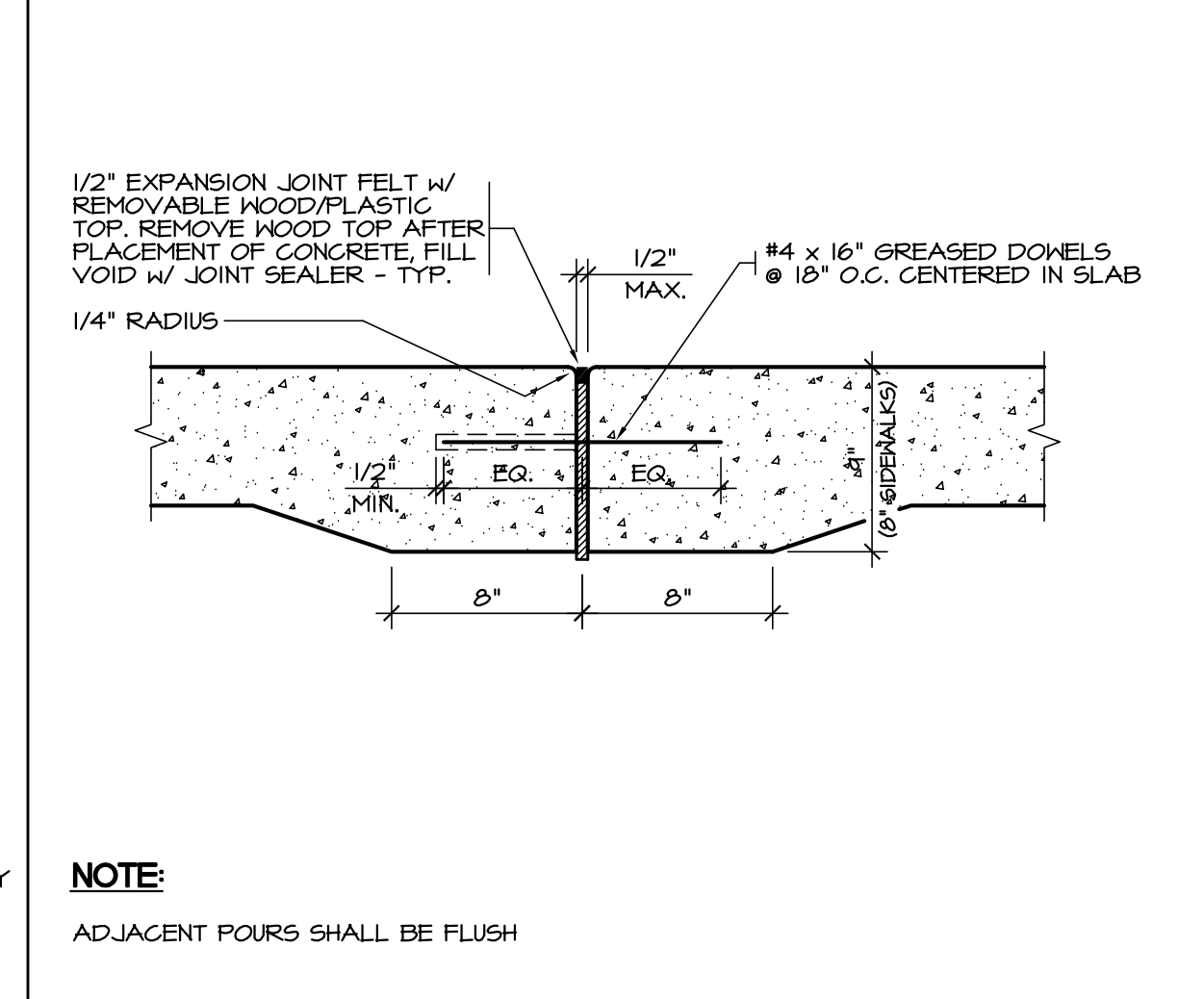
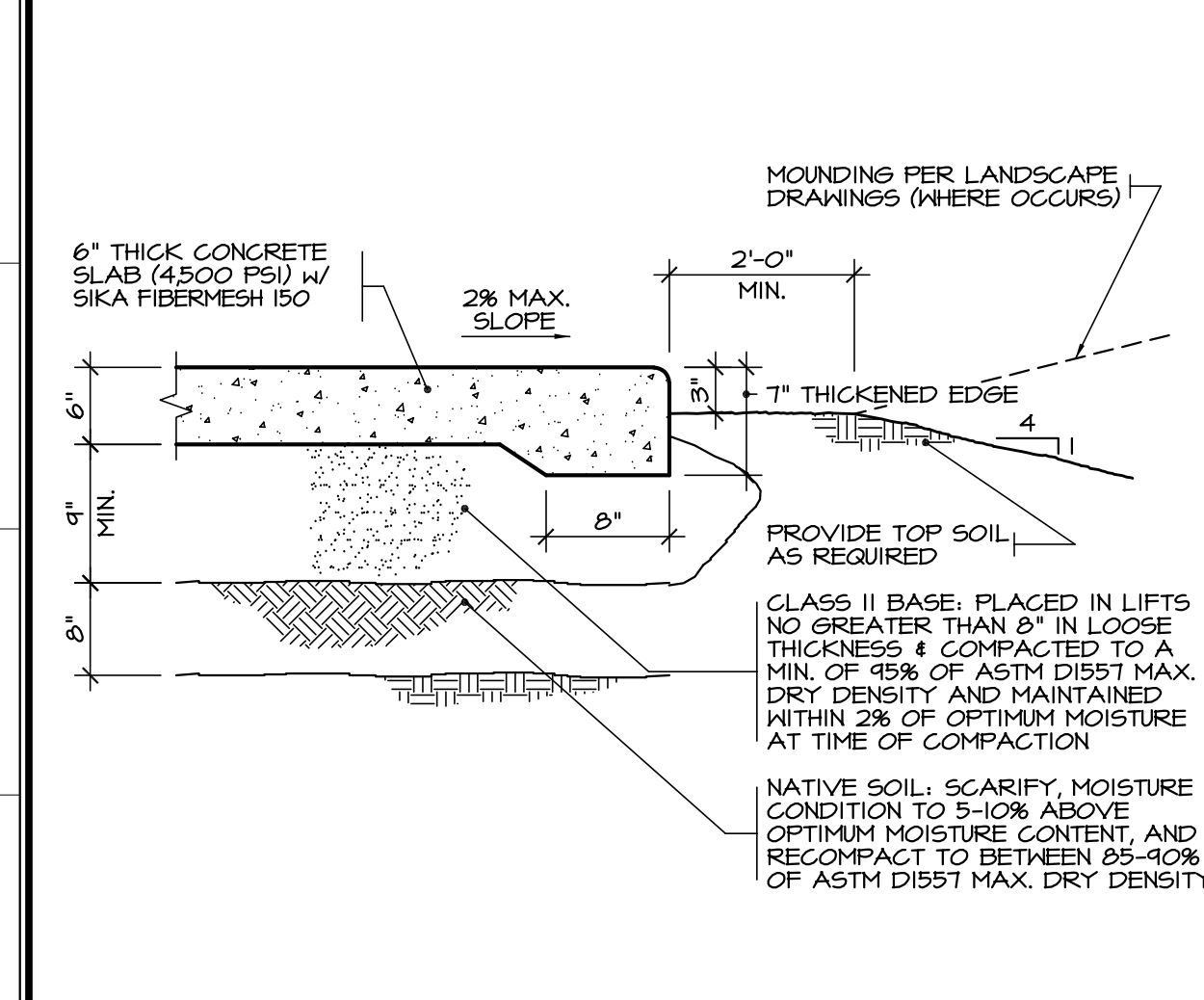
Project Title
**IMPERIAL VALLEY COLLEGE
 RESTROOM/CONCESSION BUILDING**

Sheet Title
**EROSION AND SEDIMENTATION
 CONTROL PLAN**

	Document Date 10-14-22	Project Number 22-091V
	Date Last Revised	Sheet Number AS7



PAD SECTION AT BUILDING 500 SCALE: 3/8" = 1'-0" **A**



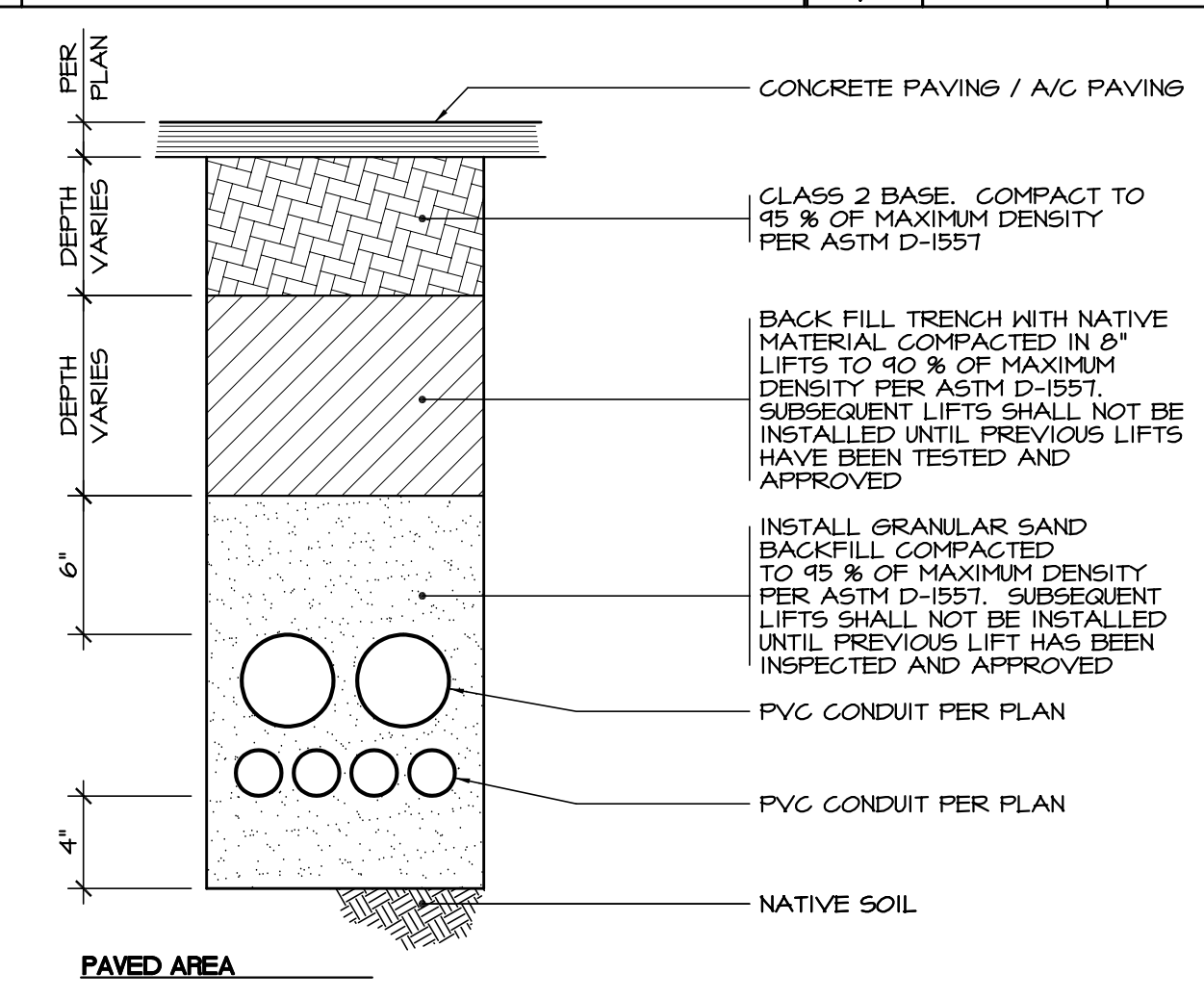
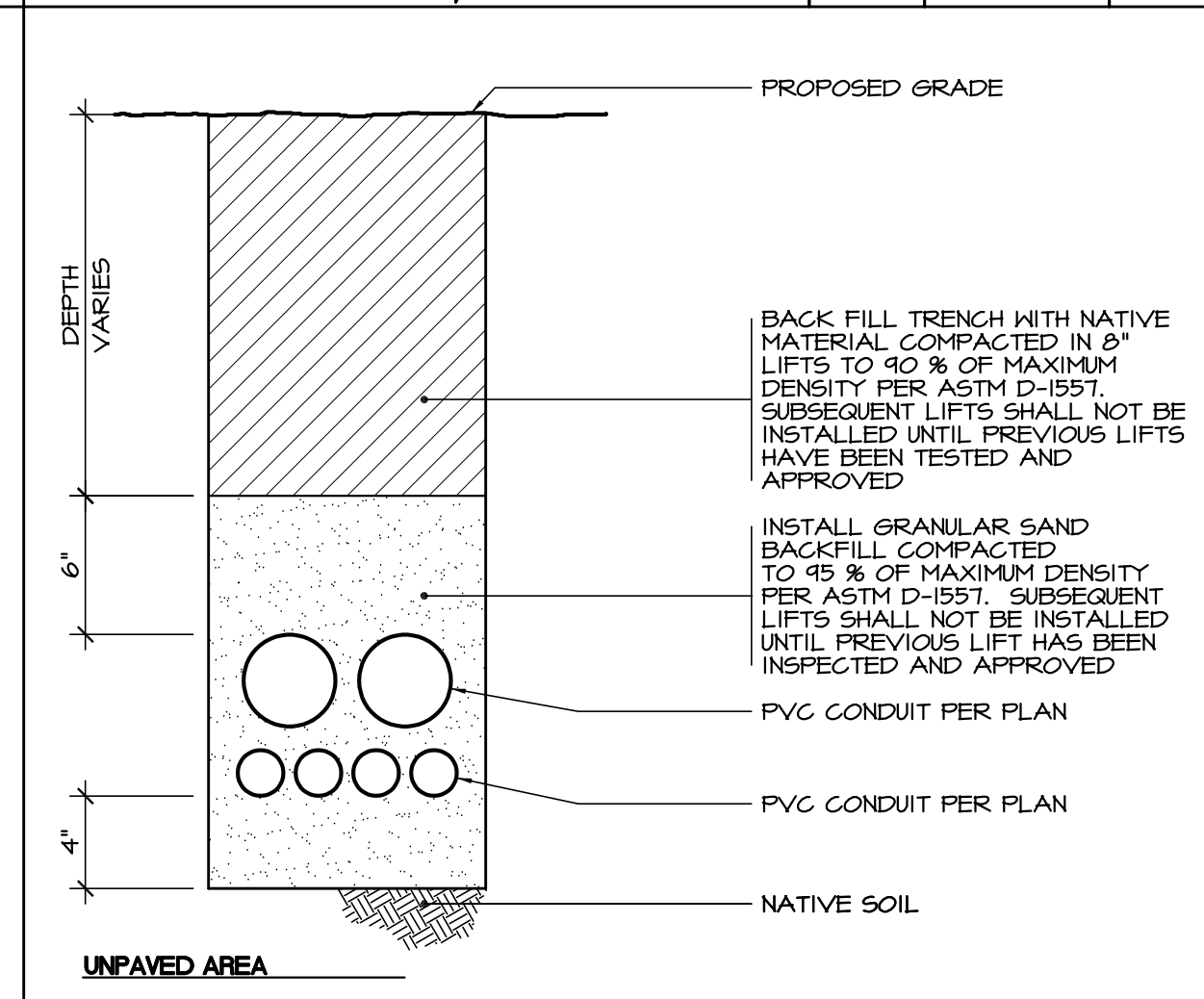
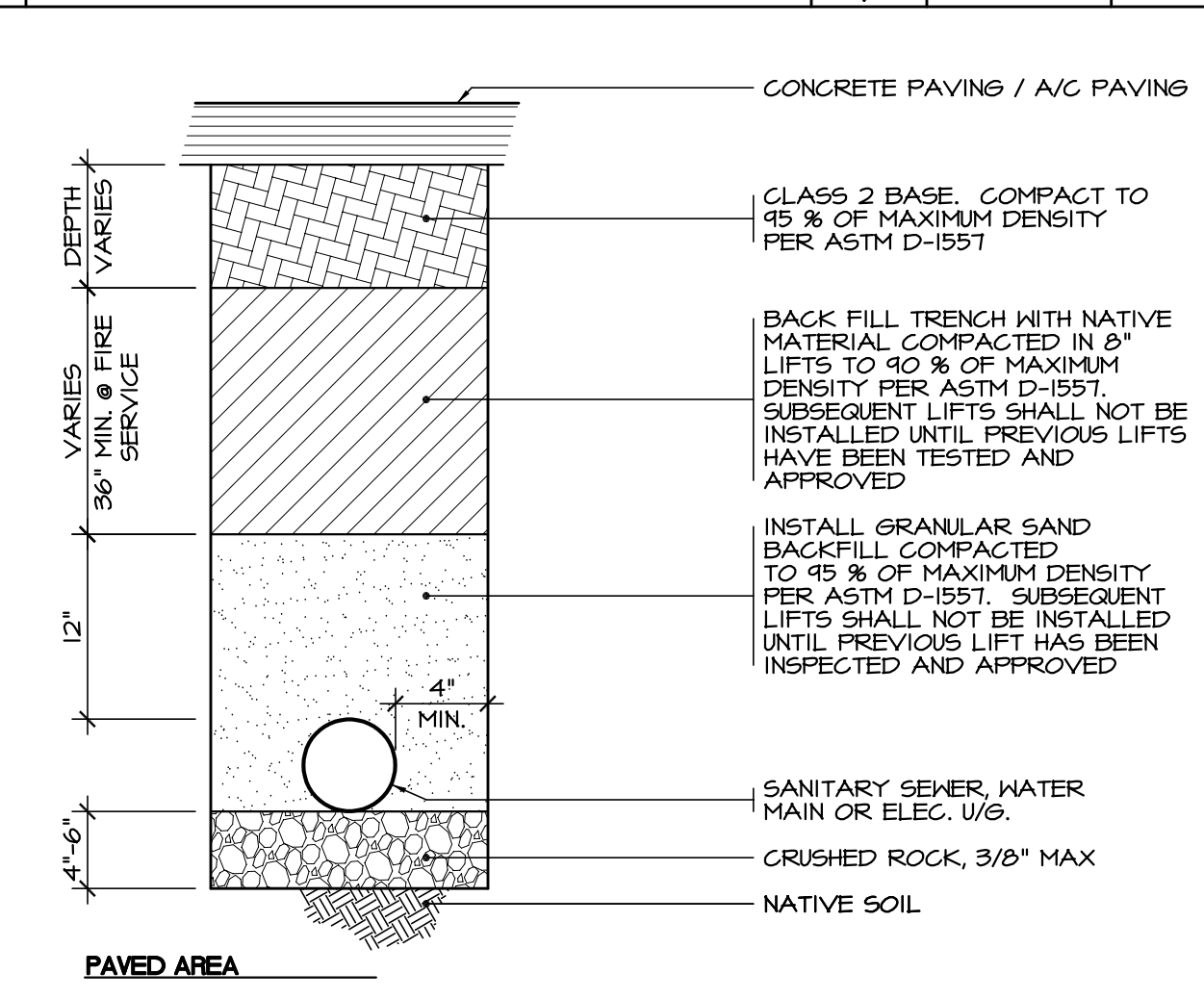
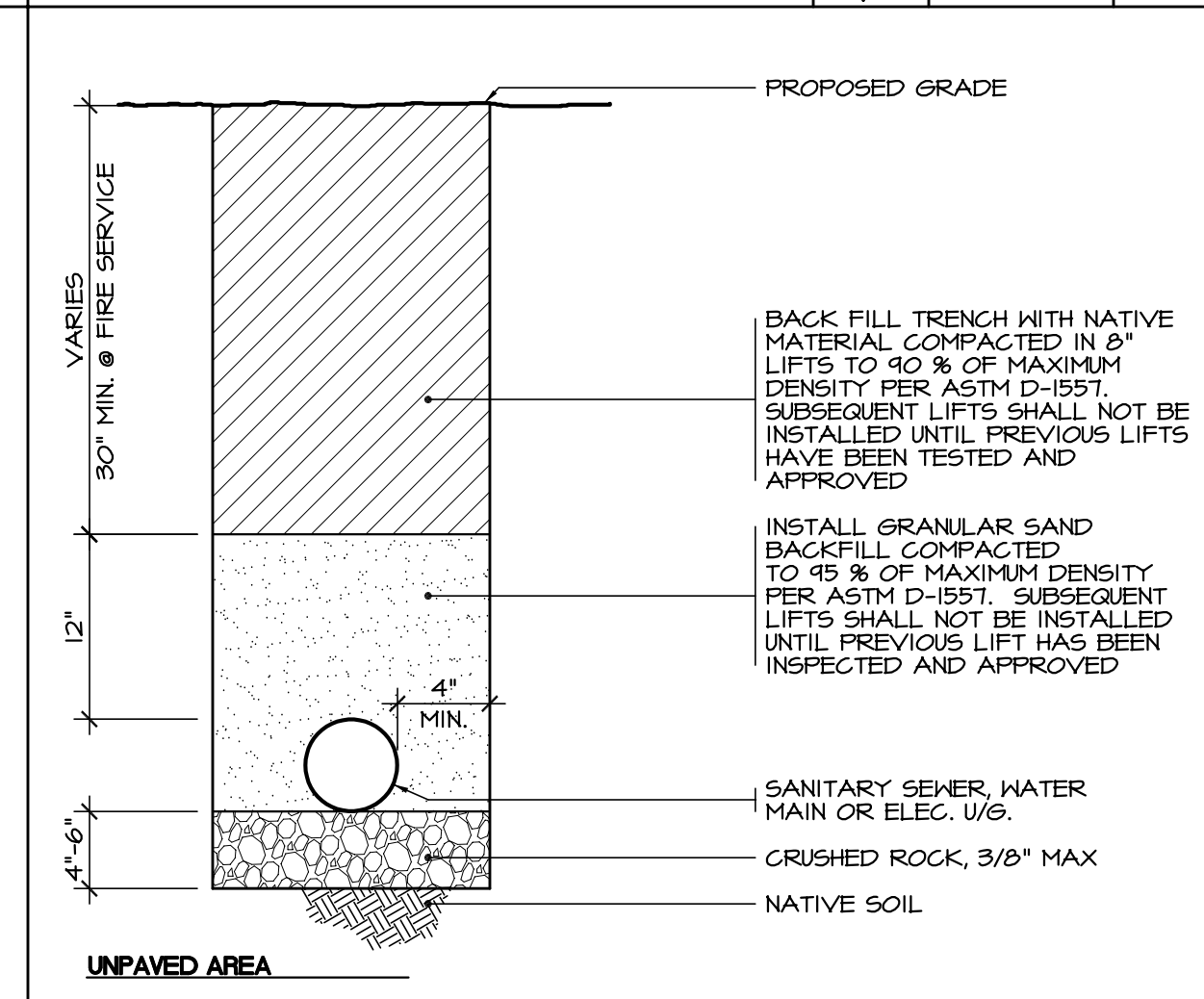
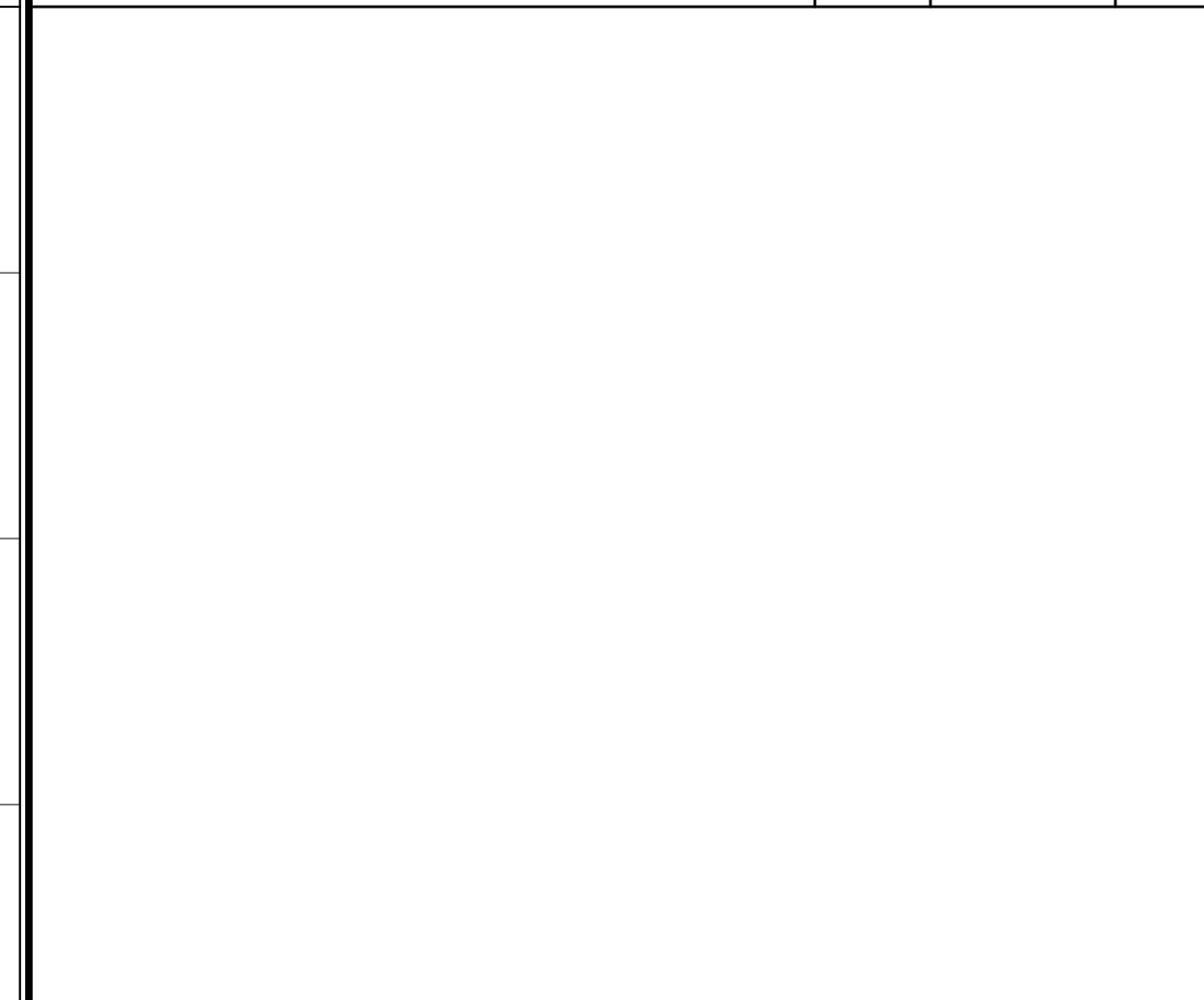
SITE CONCRETE SECTION EXEMPTION C2 SCALE: 3/8" = 1'-0" **1**

EXPANSION JOINT EXEMPTION C2, C4 SCALE: 1/2" = 1'-0" **5**

CONSTRUCTION JOINT EXEMPTION C2, C4 SCALE: 1/2" = 1'-0" **6**

CONTROL JOINT, SAW CUT EXEMPTION C2 SCALE: 1/2" = 1'-0" **7**

NEW TO EXISTING CONCRETE EXEMPTION C2, C4 SCALE: 1/2" = 1'-0" **8**



TYPICAL HDPE TRENCH DETAIL SCALE: N.T.S. **14**

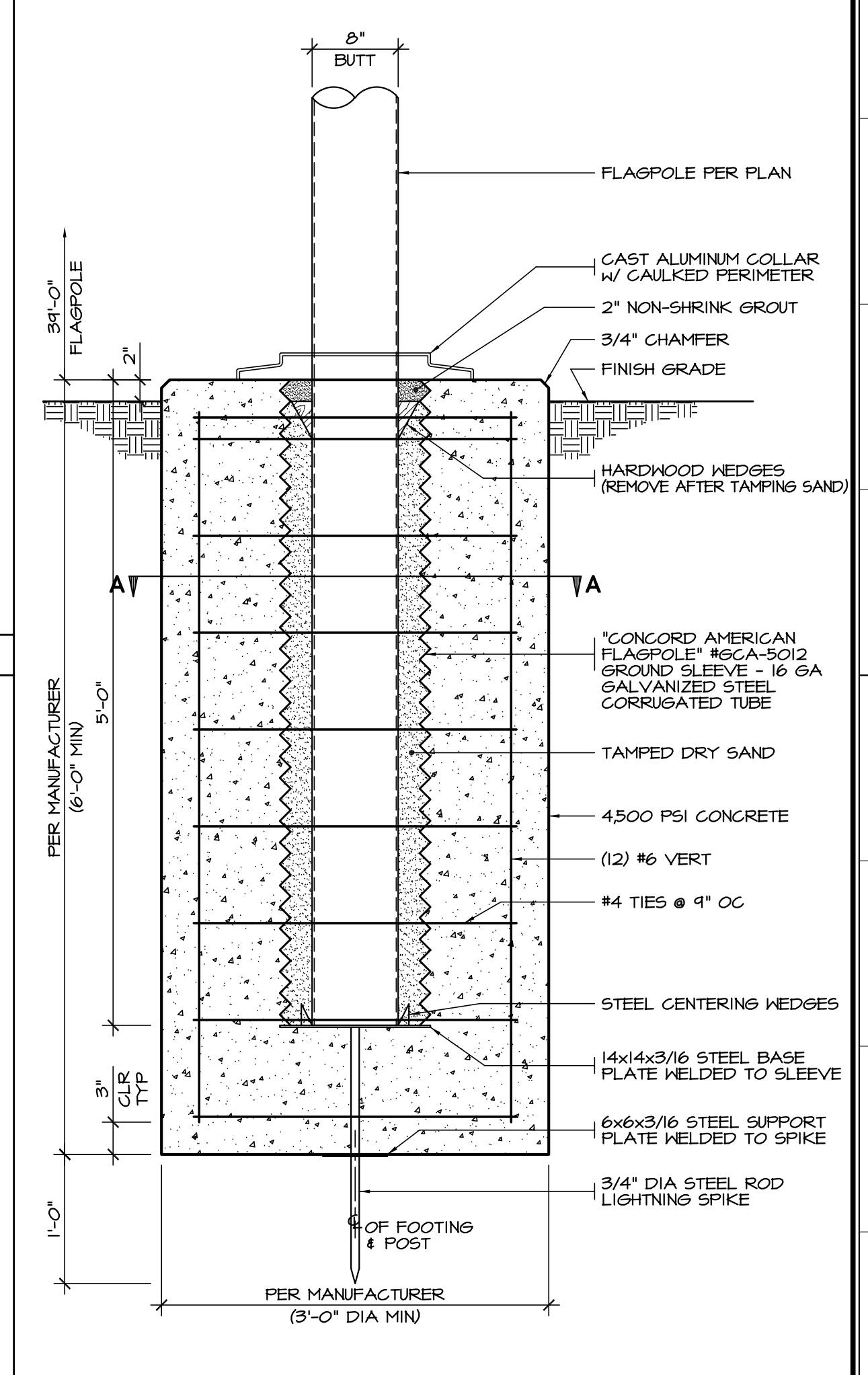
TYPICAL PVC TRENCH DETAIL SCALE: N.T.S. **15**

TYPICAL PVC TRENCH DETAIL SCALE: N.T.S. **15**

TYPICAL PVC TRENCH DETAIL SCALE: N.T.S. **15**

TYPICAL PVC TRENCH DETAIL SCALE: N.T.S. **15**

APPROVALS



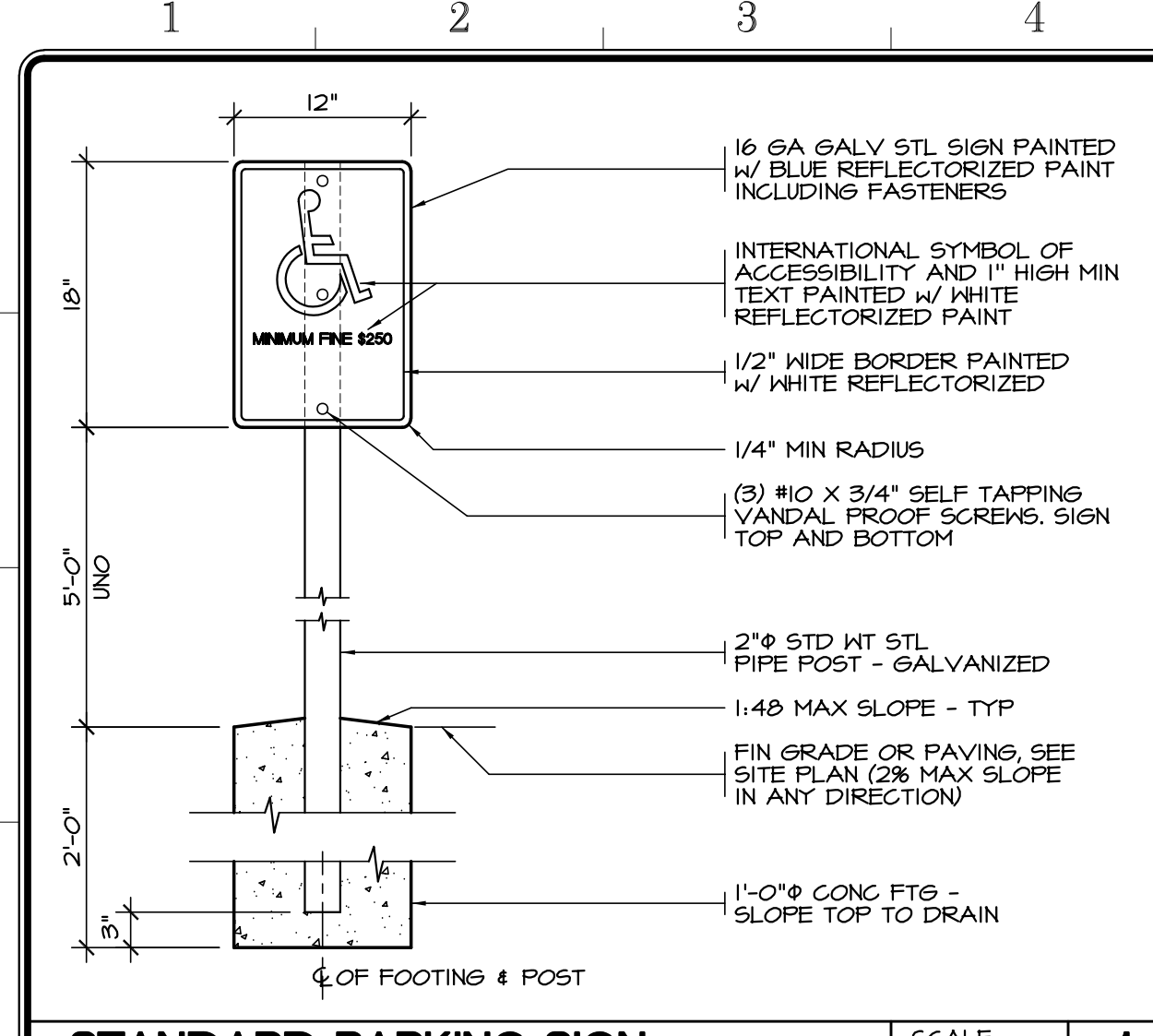
GROUND SET FLAGPOLE SCALE: 1" = 1'-0" **16**

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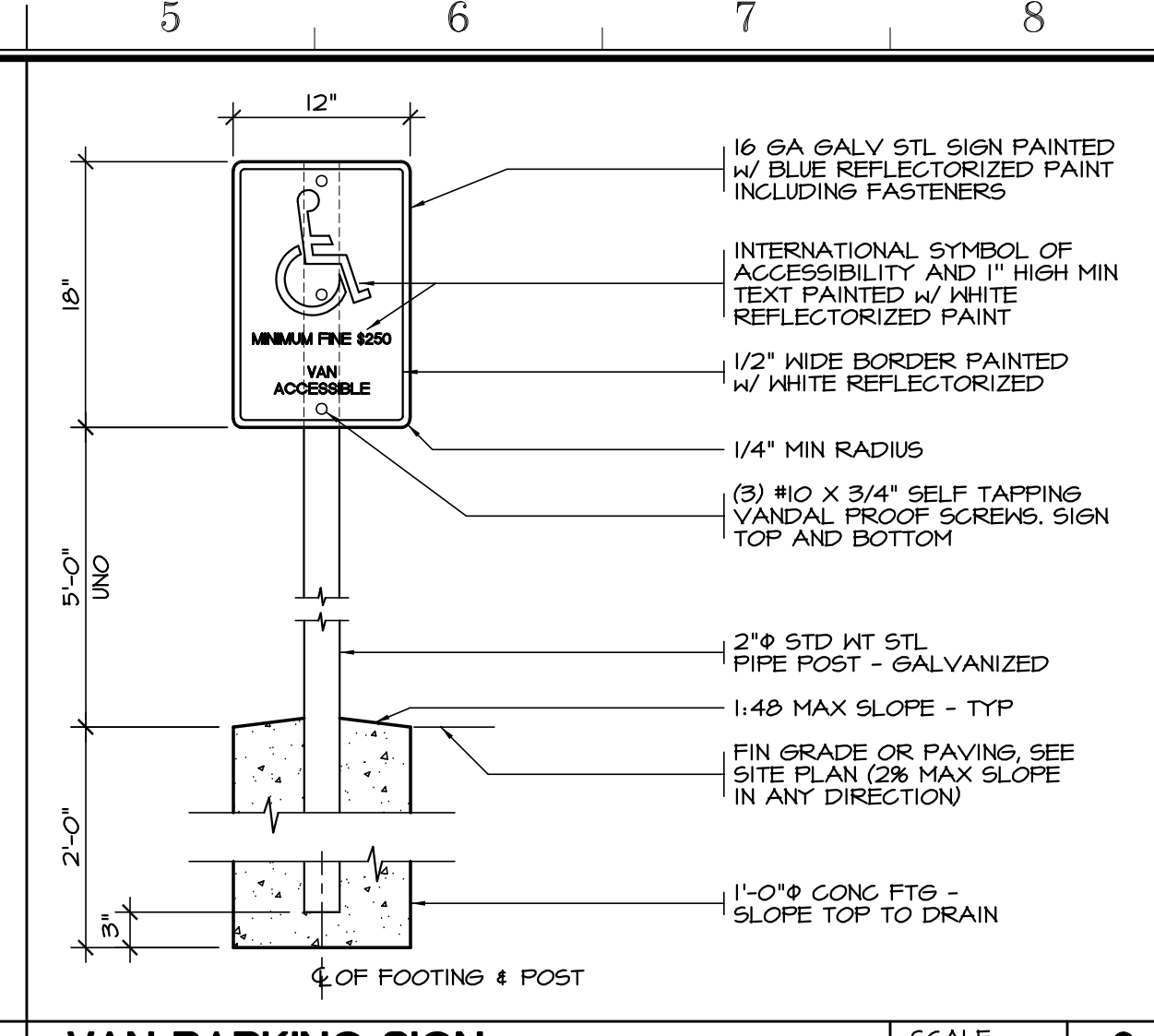
Project Title
**IMPERIAL VALLEY COLLEGE
 RESTROOM/CONCESSION BUILDING**

Sheet Title
TYPICAL SITE DETAILS

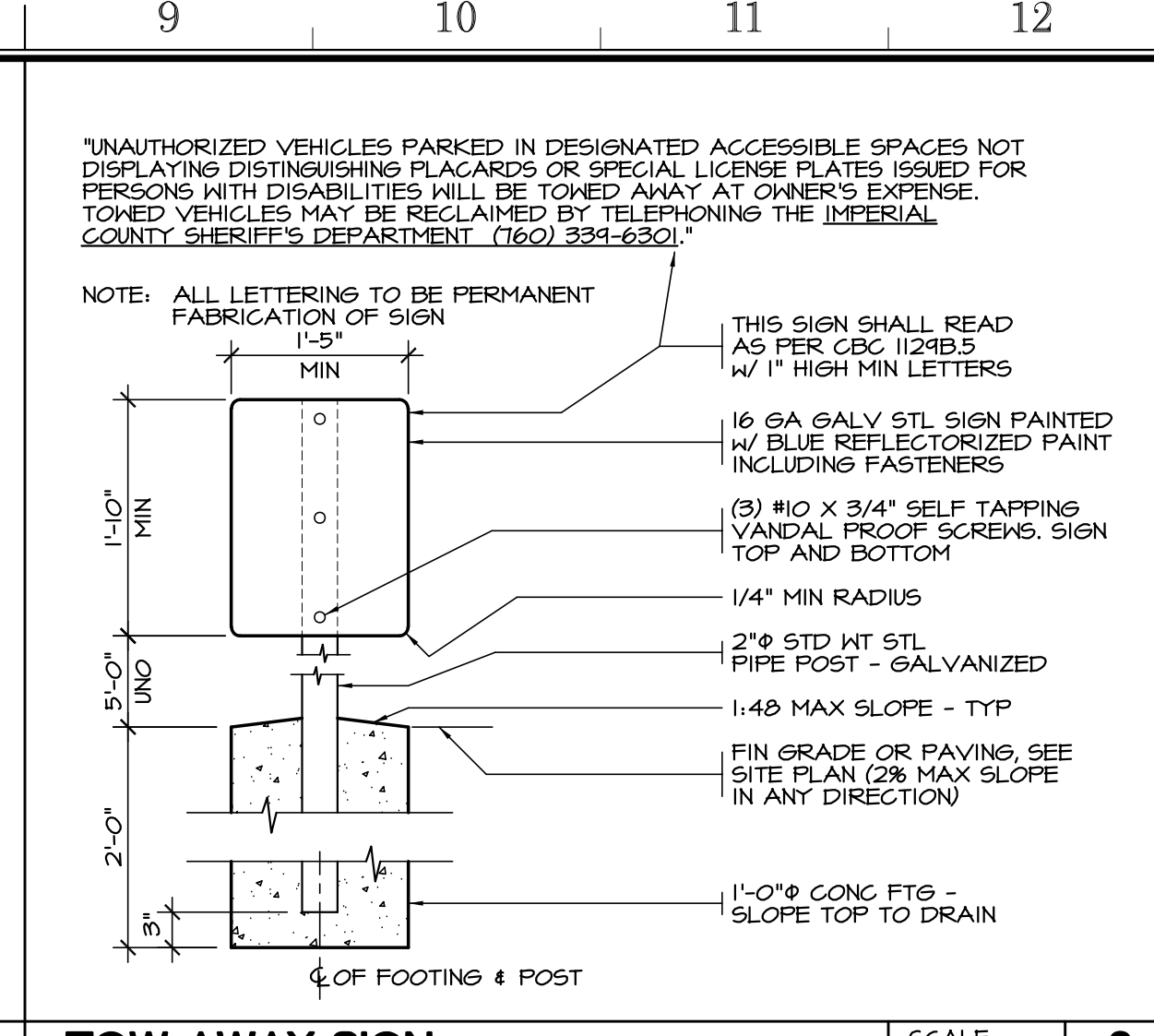
	Document Date 04-01-22	Project Number 22-091V
	Date Last Revised	Sheet Number ASX2



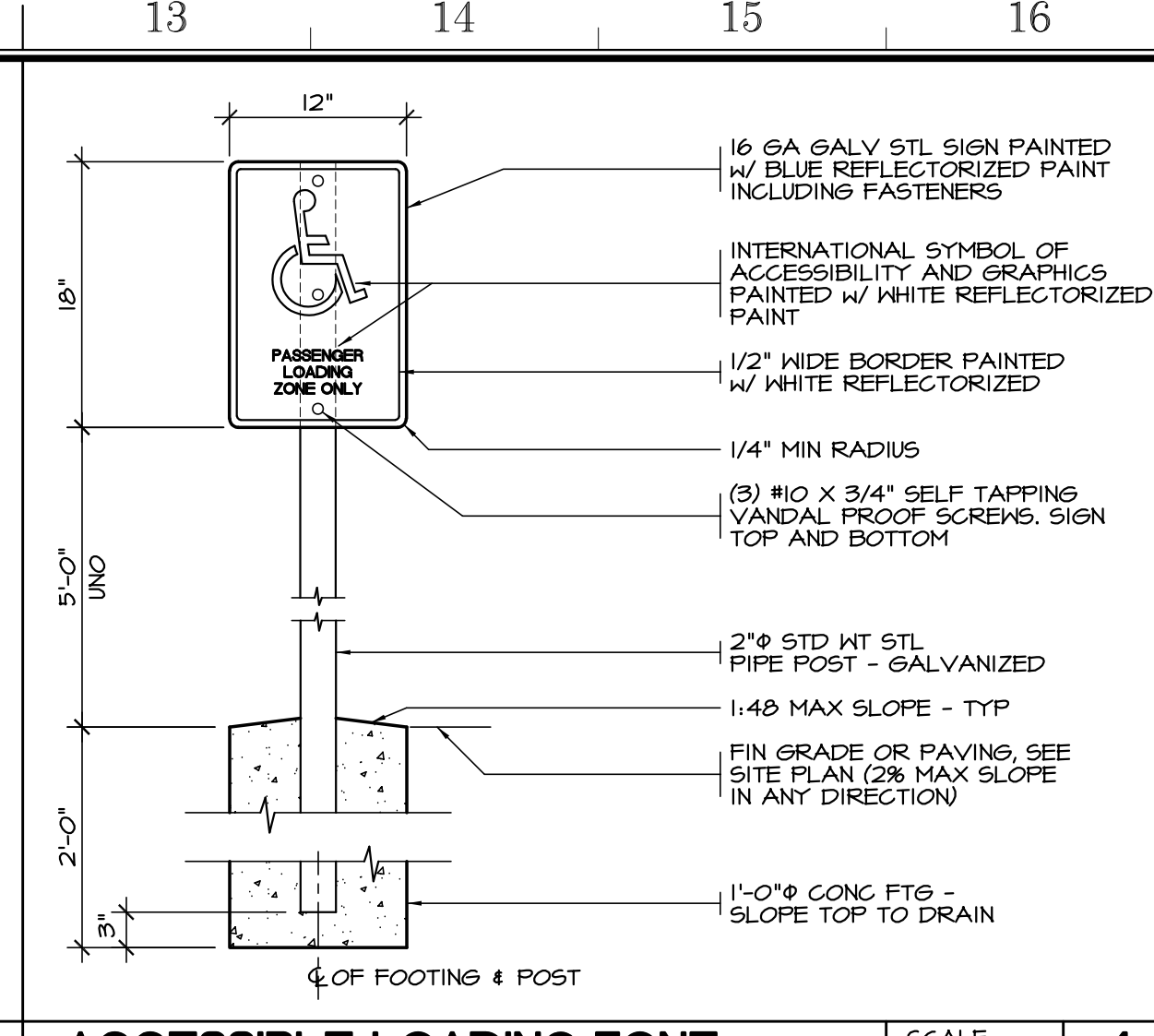
STANDARD PARKING SIGN SCALE: 1" = 1'-0" 1



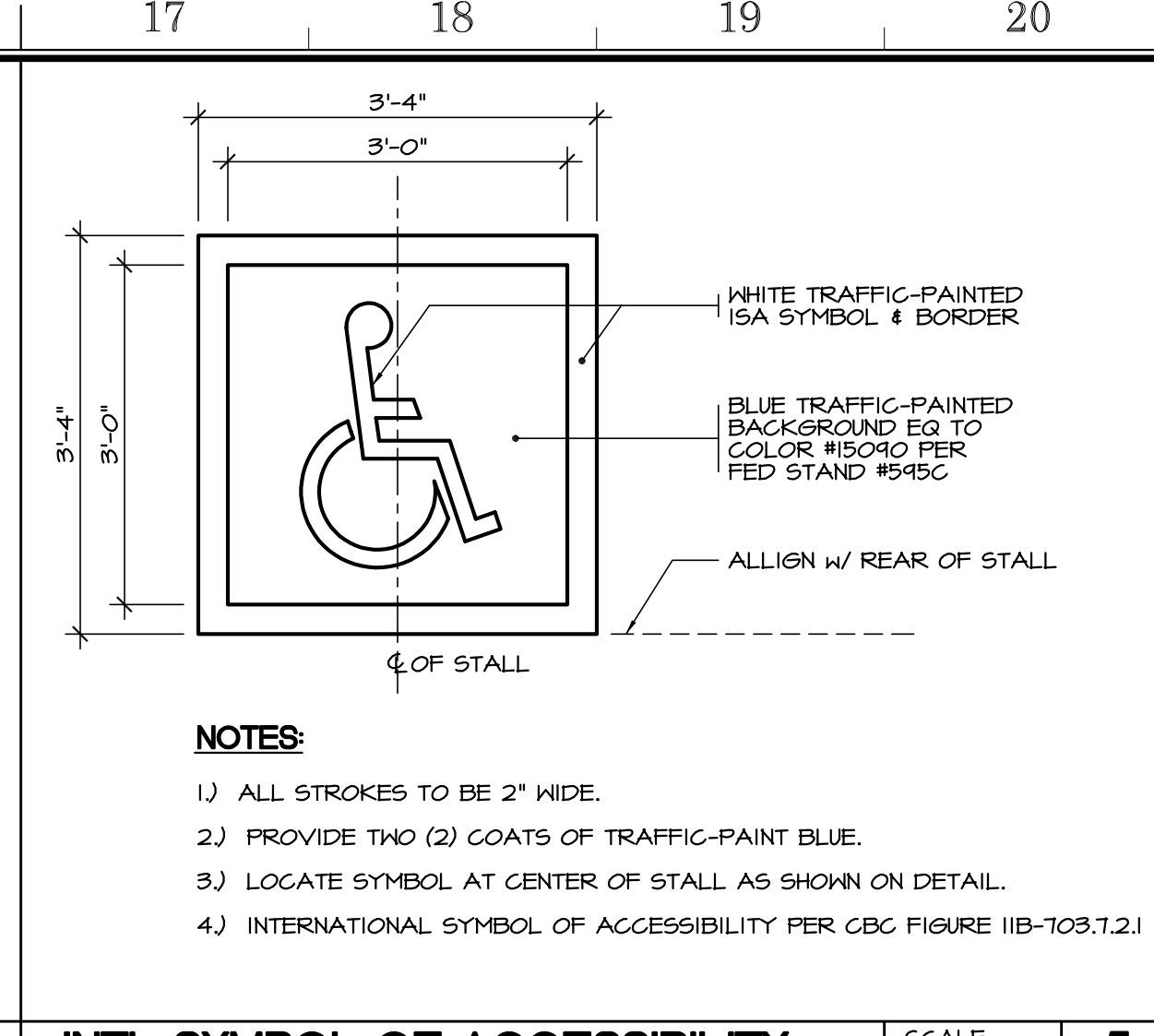
VAN PARKING SIGN SCALE: 1" = 1'-0" 2



TOW AWAY SIGN SCALE: 1" = 1'-0" 3



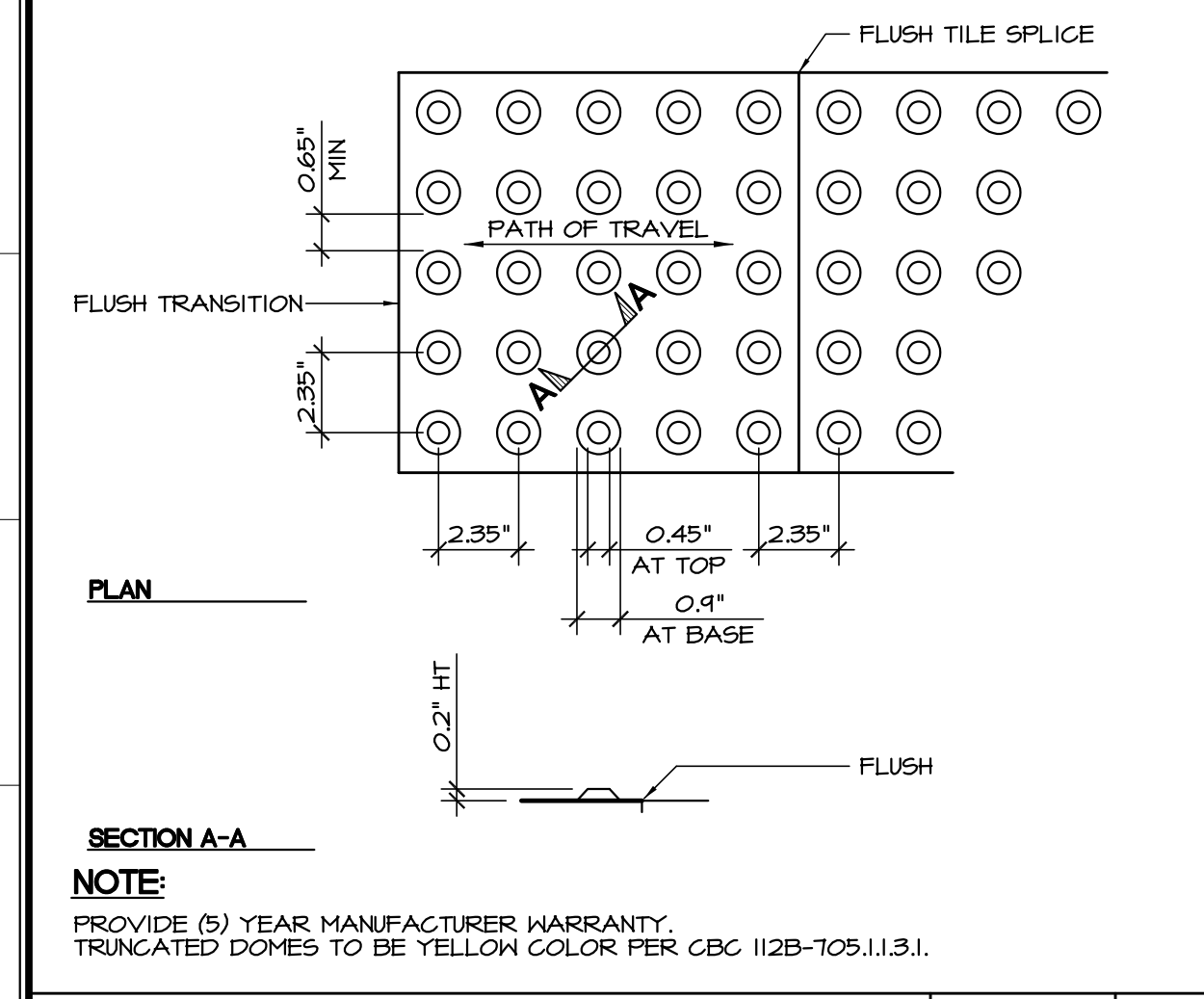
ACCESSIBLE LOADING ZONE SCALE: 1" = 1'-0" 4



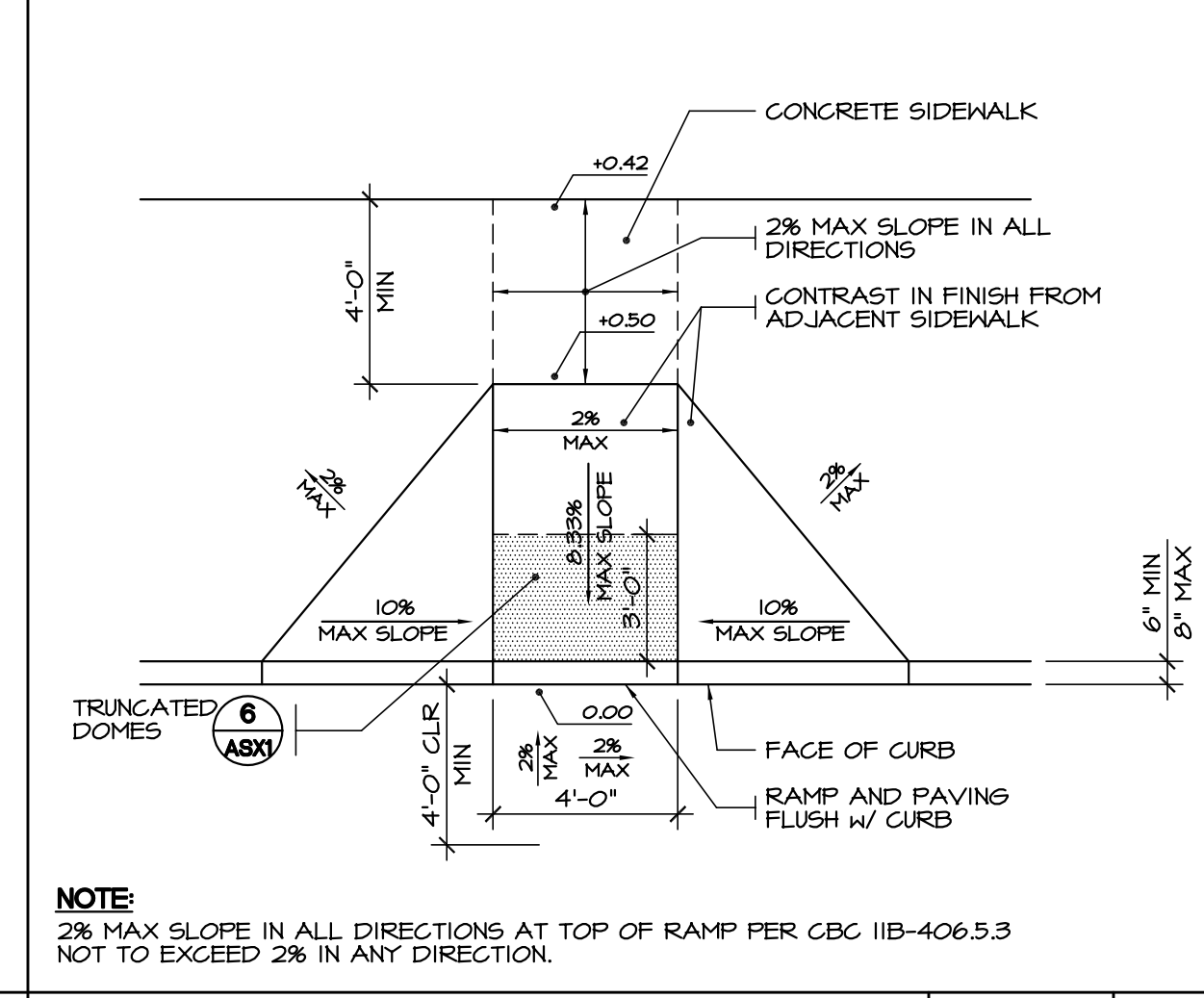
INTL SYMBOL OF ACCESSIBILITY SCALE: 3/4" = 1'-0" 5

APPROVALS

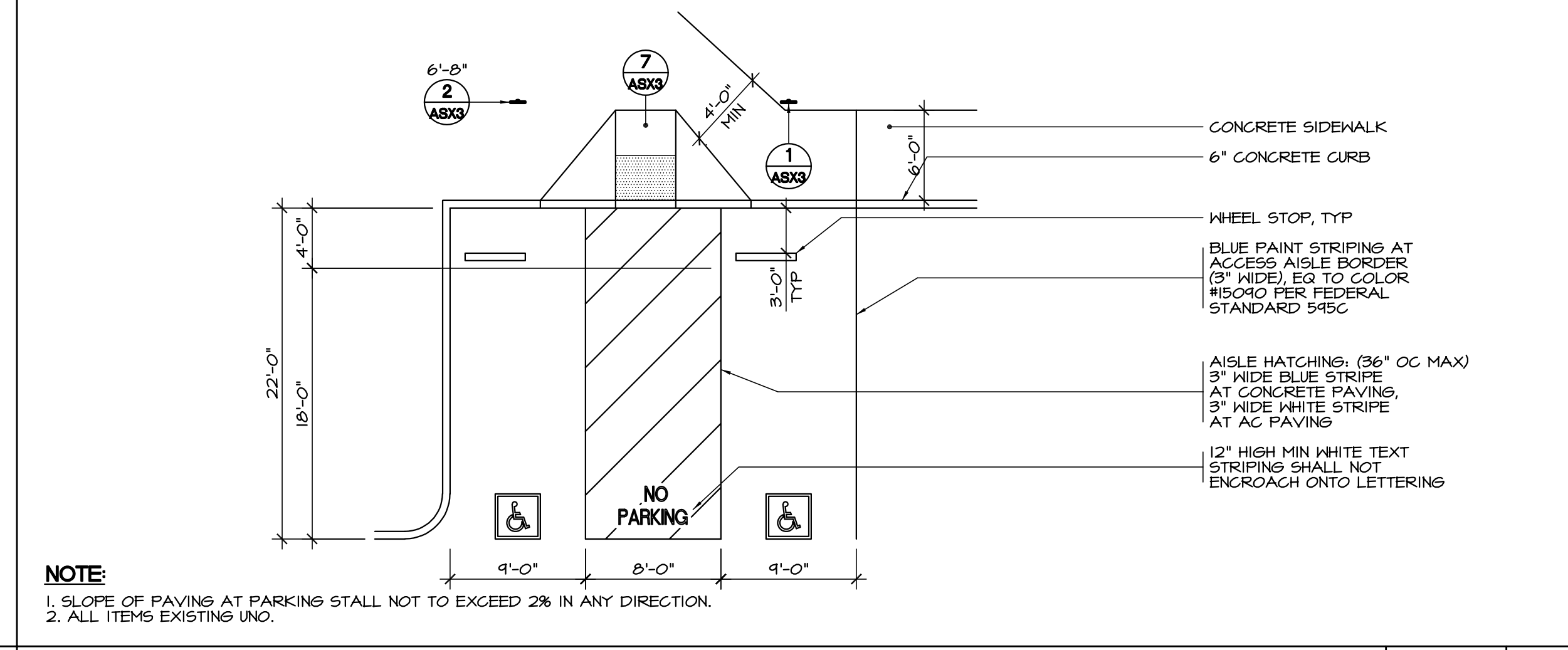
NOTES:
 1) ALL STROKES TO BE 2" WIDE.
 2) PROVIDE TWO (2) COATS OF TRAFFIC-PAINT BLUE.
 3) LOCATE SYMBOL AT CENTER OF STALL AS SHOWN ON DETAIL.
 4) INTERNATIONAL SYMBOL OF ACCESSIBILITY PER CBC FIGURE 11B-103.1.2.1



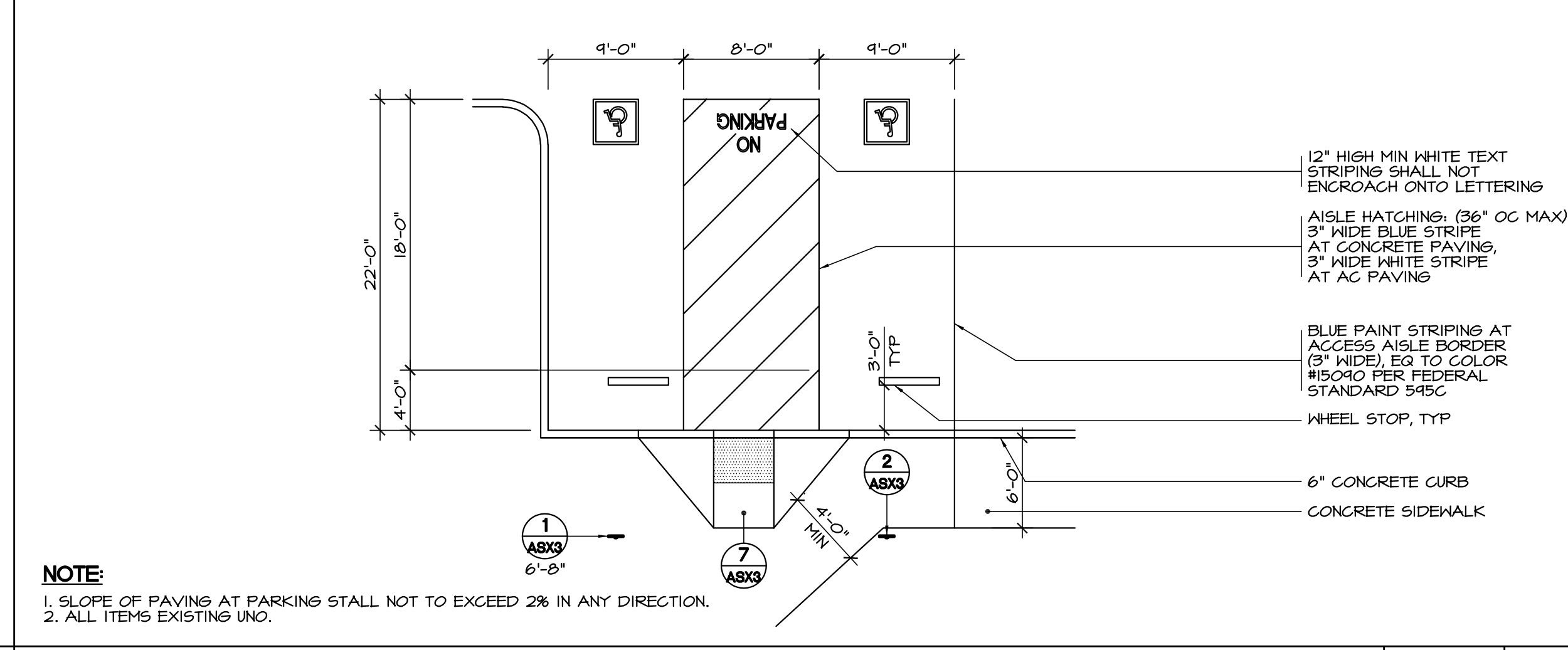
TRUNCATED DOMES SCALE: 1/4" = 1'-0" 6



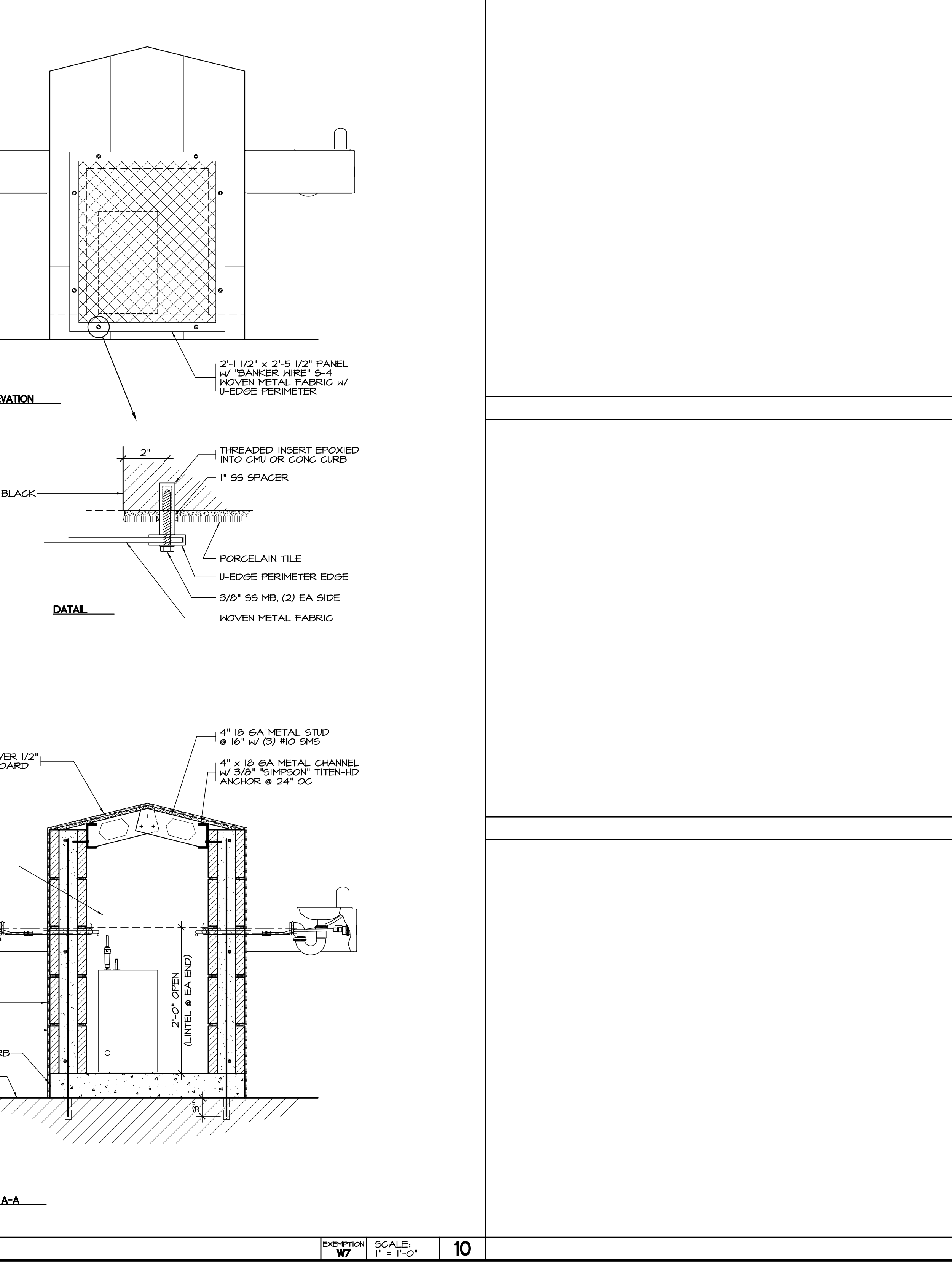
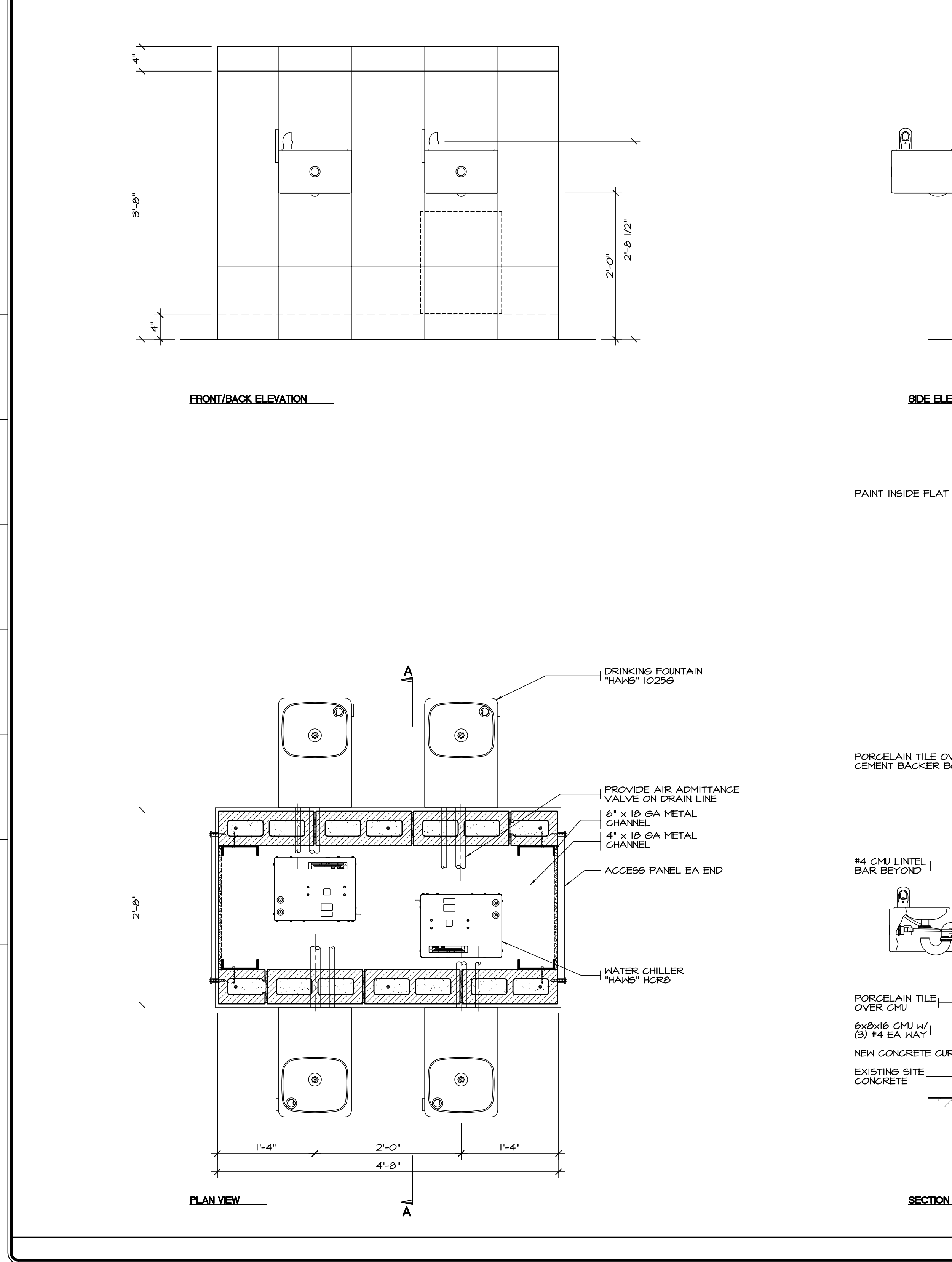
ACCESSIBLE CURB RAMP SCALE: 1/4" = 1'-0" 7



ACCESSIBLE PARKING DETAIL SCALE: 1/8" = 1'-0" 8



ACCESSIBLE PARKING DETAIL SCALE: 1/8" = 1'-0" 9



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Project Title
**IMPERIAL VALLEY COLLEGE
 RESTROOM/CONCESSION BUILDING**

Sheet Title
SITE ACCESSIBILITY DETAILS

Document Date 10-14-22	Project Number 22-091V
Date Last Revised	Sheet Number ASX3

LICENSED ARCHITECT
 JIMMIE SANDERS
 #7644
 RENEWED 12/22
 STATE OF CALIFORNIA

EQUIPMENT:

#	EQUIPMENT DESCRIPTION
1	FIRE EXTINGUISHER
2	REFRIGERATOR / FREEZER COMBO
3	STAINLESS STEEL CART
4	STEEL STATIONARY SHELVING

* ITEM OCCURS THIS BUILDING

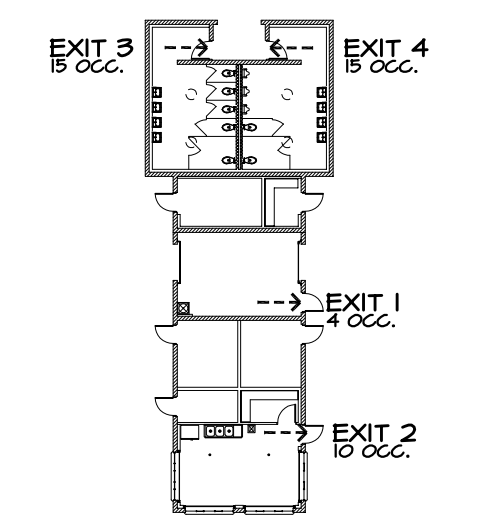
- LEGEND:**
- DOOR NUMBER - SEE DOOR SCHEDULE
 - 30" x 48" CLEAR FLOOR SPACE (2% MAX SLOPE IN ALL DIRECTIONS)
 - 60" DIAMETER CLEAR FLOOR SPACE (2% MAX SLOPE IN ALL DIRECTIONS)
 - 60" x 54" CLEAR SPACE AT FULL SIDE OF INTERIOR DOOR (2% MAX SLOPE IN ALL DIRECTIONS)
 - 48" x 48" CLEAR SPACE AT PUSH SIDE OF DOOR (2% MAX SLOPE IN ALL DIRECTIONS)
 - ⑧ GRID TAG
 - ③ WINDOW NUMBER - SEE WINDOW SCHEDULE
 - ⑩ EQUIPMENT NUMBER - SEE EQUIPMENT SCHEDULE
 - PH PANIC HARDWARE

- KEYNOTES:**
- ① LINE OF COVERED WALK/ENTRY ABOVE
 - ② LINE OF COILED DOOR
 - ③ STAINLESS STEEL SINK / COUNTER - SEE INTERIOR ELEVATIONS
 - ④ PLUMBING FIXTURE - SEE PLUMBING DRAWINGS
 - ⑤ ELECTRICAL EQUIPMENT - SEE ELECTRICAL DRAWINGS
 - ⑥ MOP SERVICE BASIN w/ STAINLESS STEEL HALL GUARD
 - ⑦ COMMUNICATIONS EQUIPMENT - SEE COMMUNICATIONS DRAWINGS
 - ⑧ ROOF ACCESS SHIP'S LADDER AND HATCH - SEE SPECIFICATIONS
 - ⑨ STAINLESS STEEL CORNER / HALL GAP / END HALL GUARD
 - ⑩ ACCESSIBLE STAINLESS STEEL WORK STATION
 - ⑪ CONTROL PANEL - BBU UNIT (MUSCO) 24X12

- FURRING TYPES:**
- ◆ 4" STEEL STUD (400S162-43) w/ 2" GAP TO HALL
 - ◆ 4" STEEL STUD (400S162-43) w/ 2" GAP TO HALL AND 6" HIGH CONCRETE CURB

- WALL TYPES**
- ▨ 8" CMU WALL
 - ▬ 4" STEEL STUD (400S162-43)
 - ▬ 4" STEEL STUD (400S162-43) w/ 6" HIGH CONCRETE CURB
 - ▬ 12" WALL w/ (2) 4" STEEL STUD (400S162-43) w/ 6" CONCRETE CURB
 - ▬ 6" STEEL STUD (600S162-43) w/ 6" HIGH CONCRETE CURB

APPROVALS

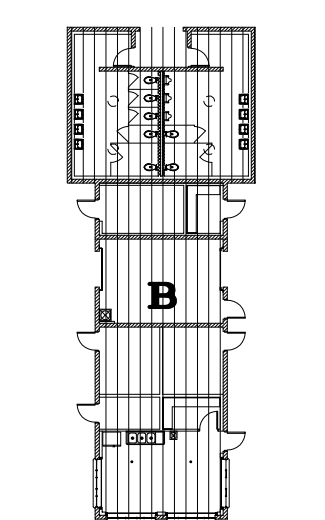


EXIT WIDTH

EXIT #	OCCUPANT LOAD	MIN EXIT WIDTH (A)	MIN EXIT WIDTH (B)	MIN EXIT WIDTH (C)
1	4	32"	32"	32"
2	15	32"	32"	32"
3	15	32"	32"	32"
4	15	32"	32"	32"

MIN EXIT WIDTH (A) 32" 32" 32" 32"
MIN EXIT WIDTH (B) 32" 32" 32" 32"
MIN EXIT WIDTH (C) 32" 32" 32" 32"
(A) 0.2 INCHES PER PERSON FOR DOORS.

EXISTING PLAN SCALE: 1/32" = 1'-0" C



BUILDING DATA:

BUILDING 500 - RESTROOM/CONCESSION

OCCUPANCY	B
CONSTRUCTION TYPE	TYPE II-B
FIRE SPRINKLER SYSTEM	NONE
NUMBER OF STORIES	1
CONSTRUCTION AREA	
BUILDING AREA	2,041 SQ FT
COVERED ENTRY	1,505 SQ FT
TOTAL AREA	3,552 SQ FT
ALLOWABLE AREA	25,000 SQ FT (TABLE 506.2)
AREA INCREASE	NONE

3552 < 25,000 = OK

OCCUPANCY PLAN SCALE: 1/32" = 1'-0" D

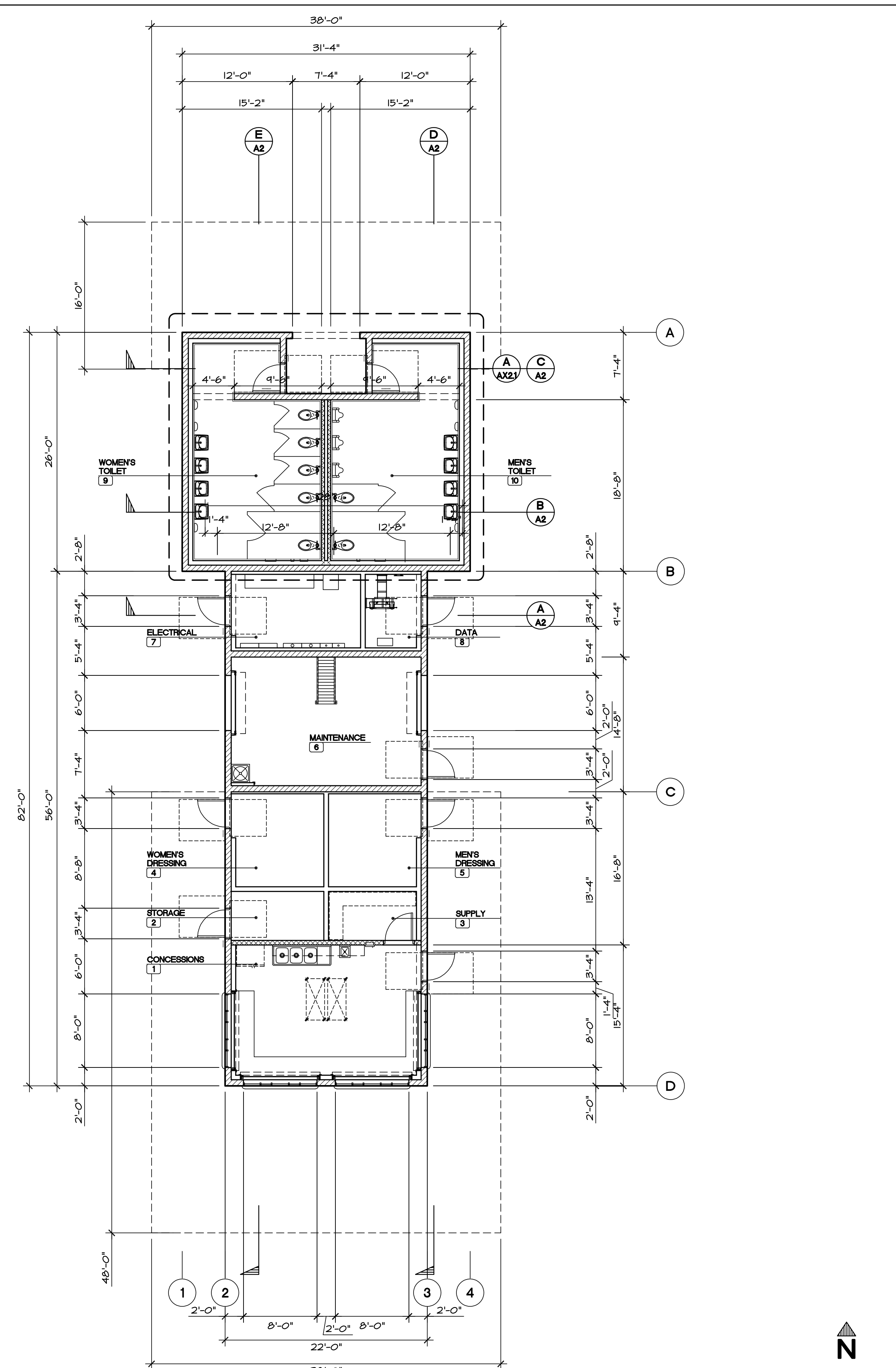
- NOTES:**
- FOR ELECTRICAL ROOM FIXED EQUIPMENT ANCHORAGE, SEE (1) (2) (12) (AXS1) (AXS1) (AXS1)
 - FOR TYPICAL STEEL STUD/HALL PANEL, SEE (1) (AXS2)
 - FOR TYPICAL NON-BEARING WALL, SEE (10) (AXS2)
 - FOR TYPICAL FURRING AT CMU OPENING, SEE (21) (AXS3)
 - FOR TOILET PARTITION SUPPORT AND BACKING, SEE (7) (20) (AXS2) (AXS3)

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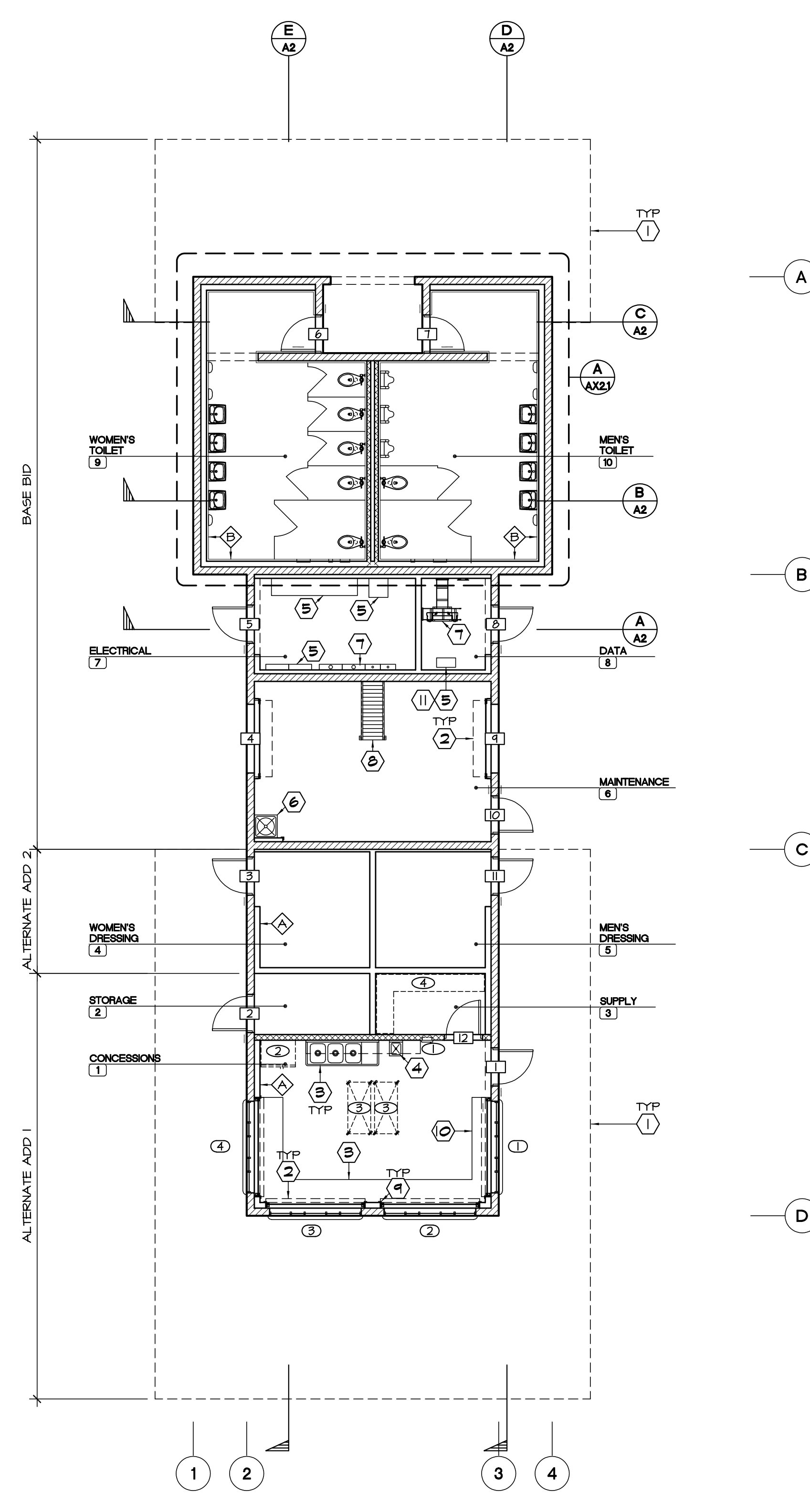
Project Title
**IMPERIAL VALLEY COLLEGE
 RESTROOM/CONCESSION BUILDING**

Sheet Title
**FLOOR PLAN - DIMENSIONAL AND
 ARCHITECTURAL**

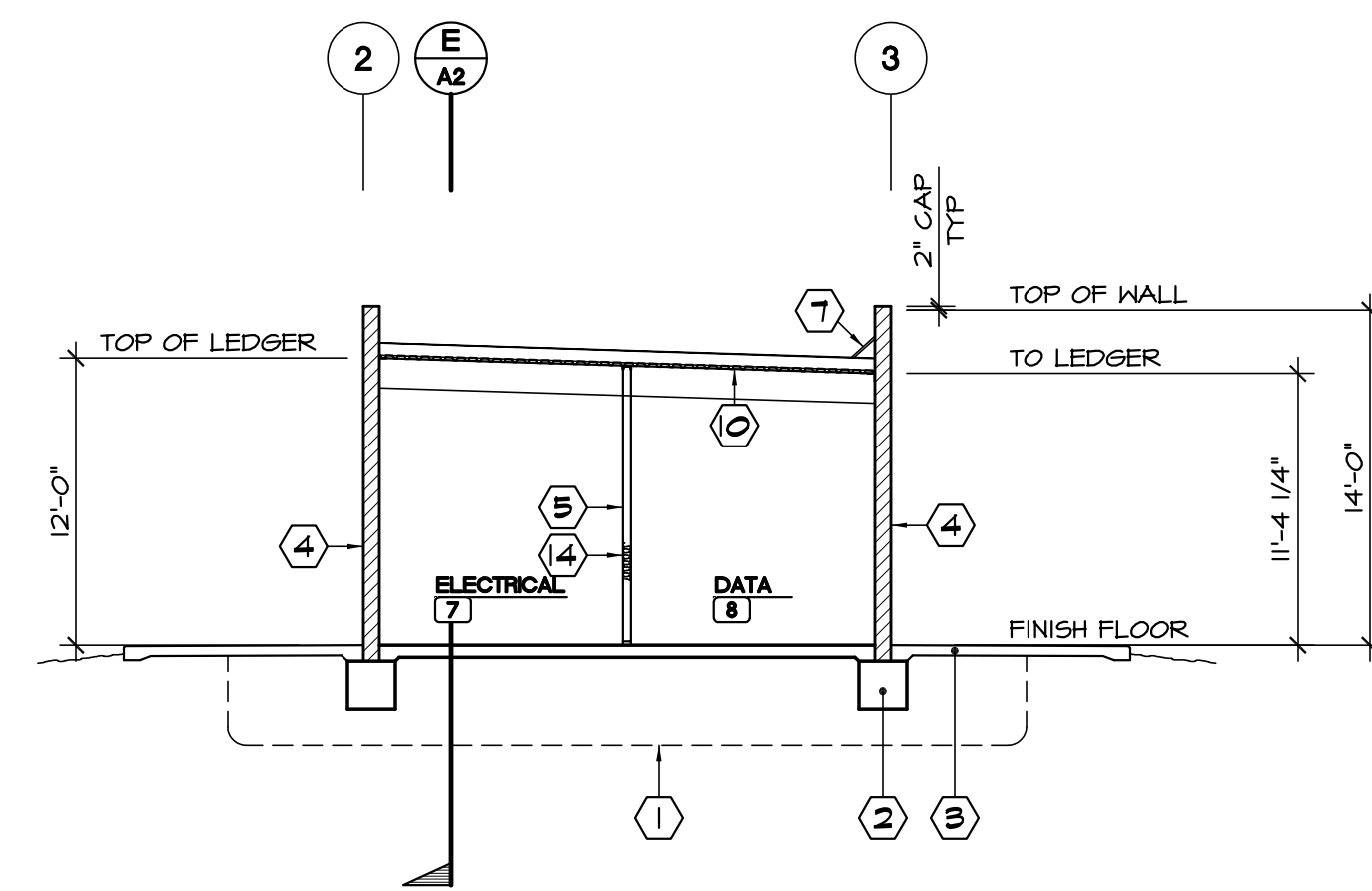
	Document Date	Project Number
	10-14-22	22-091V
	Date Last Revised	Sheet Number
		A1



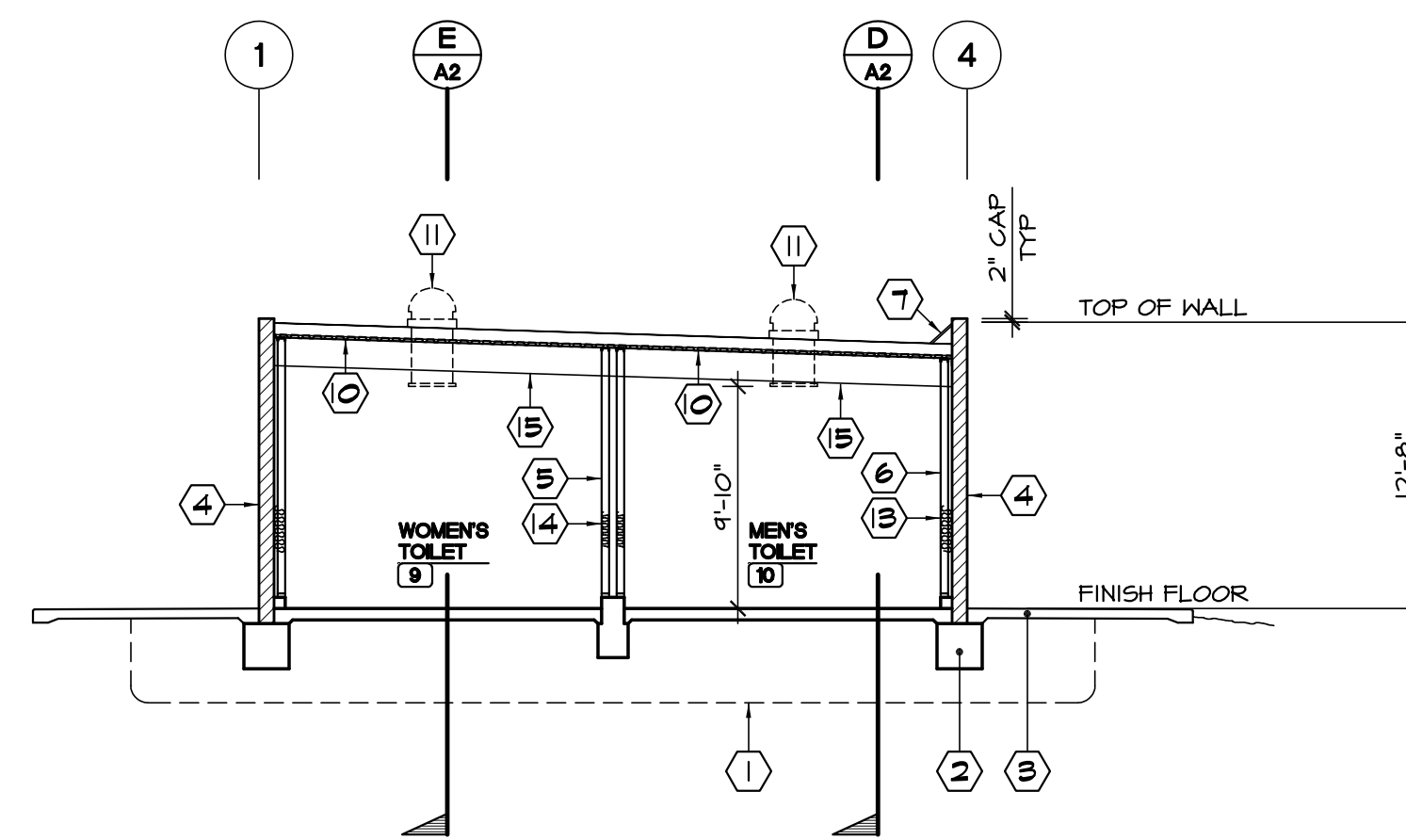
DIMENSIONAL FLOOR PLAN SCALE: 1/8" = 1'-0" A



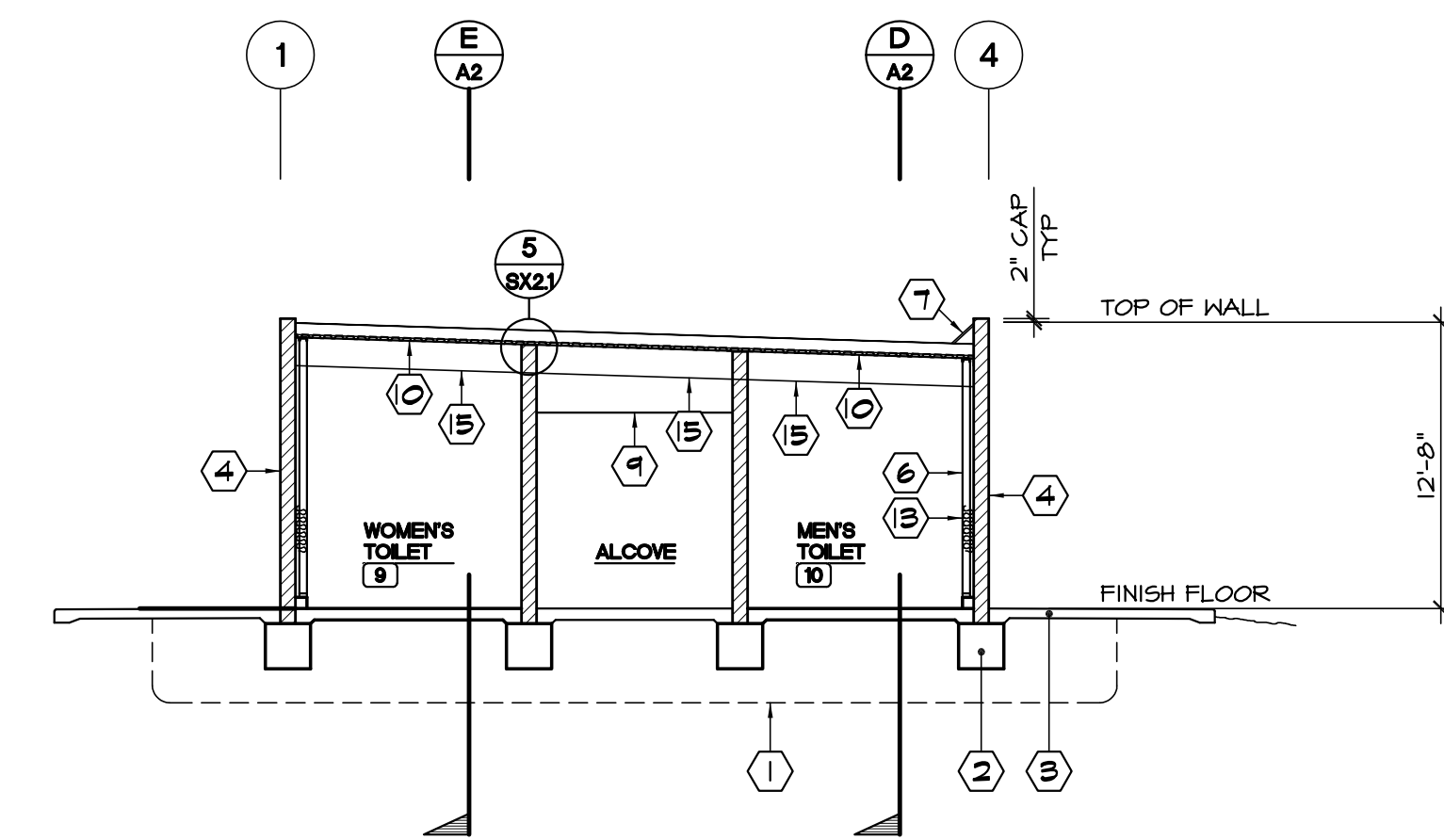
ARCHITECTURAL FLOOR PLAN SCALE: 1/8" = 1'-0" B



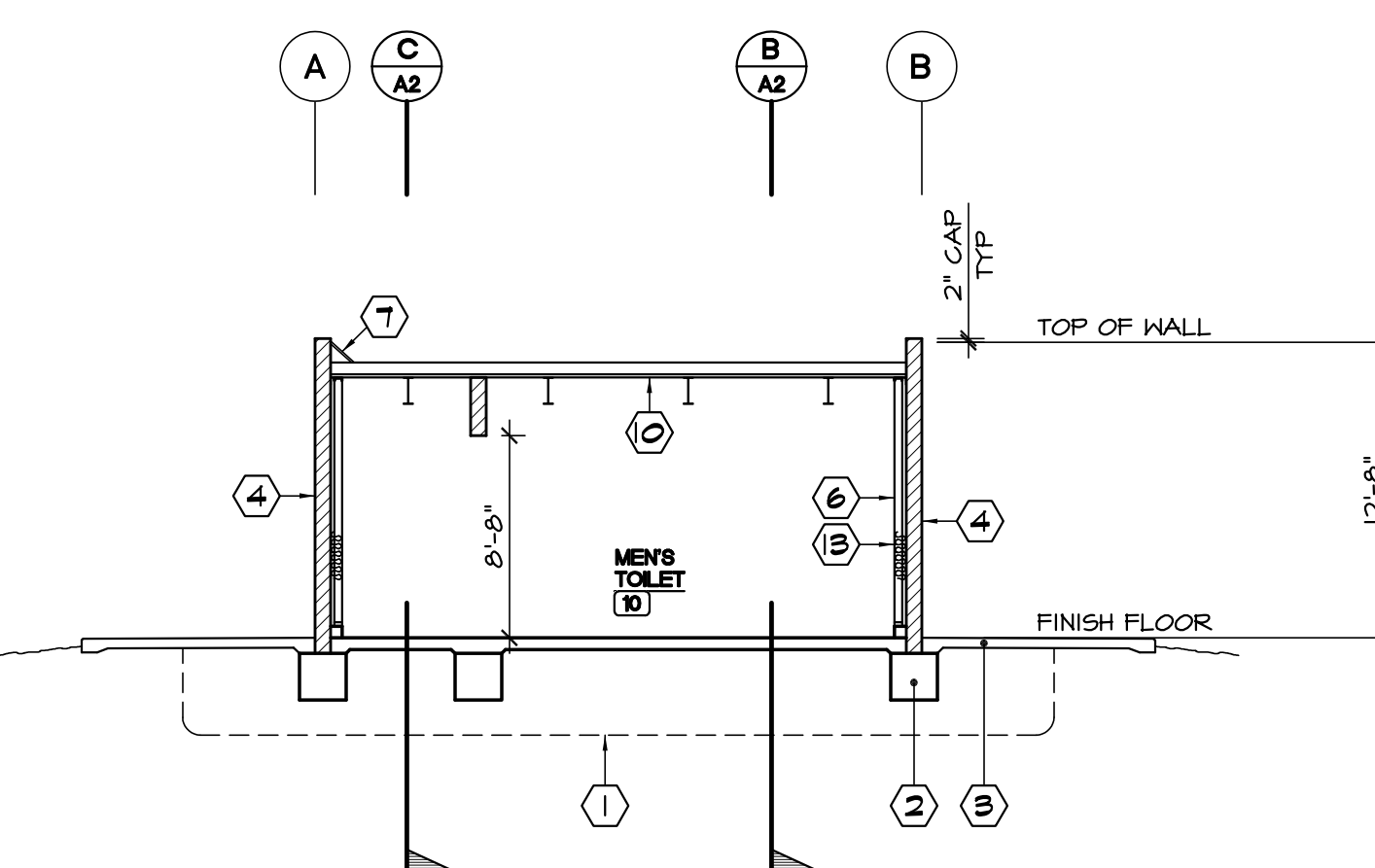
SECTION A SCALE: 1/8" = 1'-0"



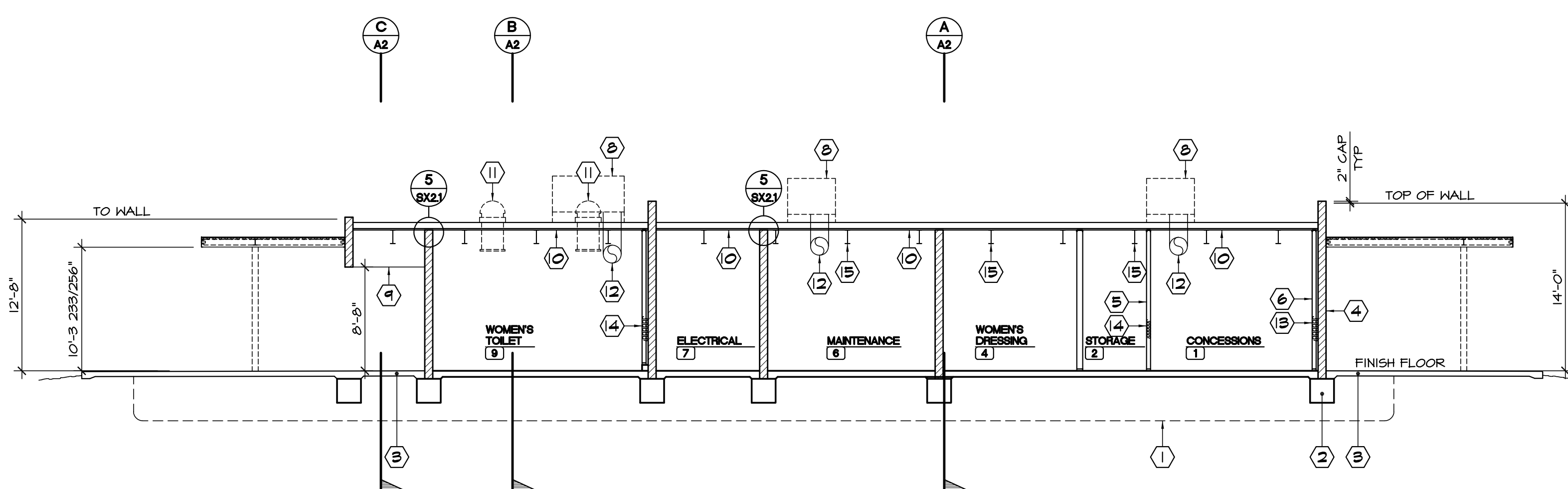
SECTION B SCALE: 1/8" = 1'-0"



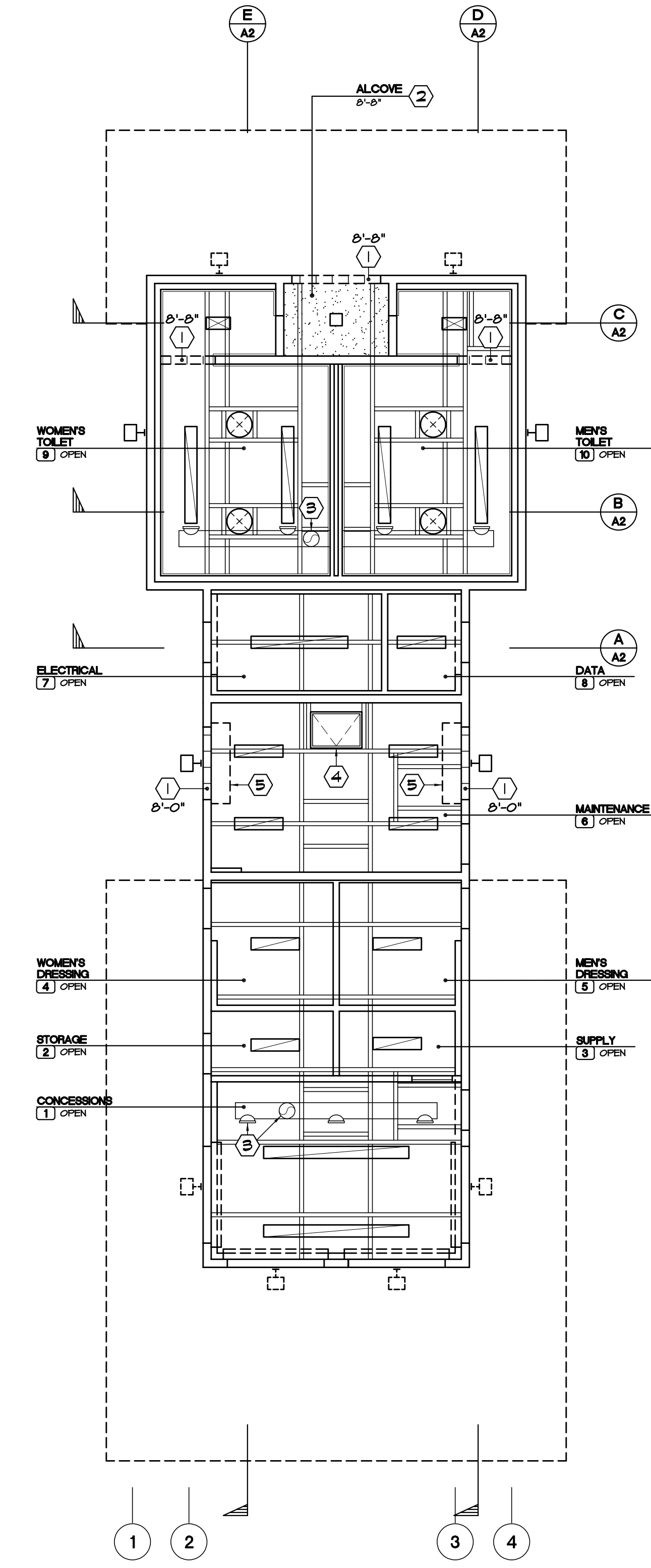
SECTION C SCALE: 1/8" = 1'-0"



SECTION D SCALE: 1/8" = 1'-0"



SECTION E SCALE: 1/8" = 1'-0"



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

APPROVALS

SECTION KEYNOTES:

- 1 ENGINEERED BUILDING PAD - SEE STRUCTURAL AND ARCHITECTURAL SITE DRAWINGS
- 2 CONCRETE FOUNDATION - SEE STRUCTURAL DRAWINGS
- 3 SITE CONCRETE - SEE ARCHITECTURAL SITE DRAWINGS
- 4 MASONRY WALL PER PLAN
- 5 STUD WALL PER PLAN
- 6 WALL FURRING PER PLAN
- 7 CRICKET - SEE ROOF PLAN
- 8 MECHANICAL EQUIPMENT - SEE MECHANICAL DRAWINGS
- 9 PLASTER FINISH - SEE EXTERIOR ELEVATIONS OR REFLECTED CEILING PLAN
- 10 CEILING LINE - SEE REFLECTED CEILING LINE
- 11 TUBULAR SKYLIGHT - SEE WINDOW SCHEDULE
- 12 HVAC DUCT - SEE MECHANICAL DRAWINGS
- 13 BATT INSULATION (R-11 @ 6", R-11 @ 4") @ EXTERIOR WALL FURRINGS
- 14 SOUND ATTENUATION BATT INSULATION @ FRAMED INTERIOR WALLS
- 15 ROOF FRAMING - SEE STRUCTURAL DRAWINGS

NOTES:

- 1. FOR TYPICAL STUDWALLS SEE 1 (AXS)
- 2. FOR CEILING JOIST FRAMING SEE 2 (AXS)
- 3. FOR FINISH SCHEDULE SEE SHEET 10 (AXS)
- 4. FOR WALL FURRING ATTACHMENT SEE 4 (AXS)
- 5. FOR EQUIPMENT SCHEDULE SEE SHEET 10 (AXS)
- 6. FLAME SPREAD RATINGS FOR WALL INSULATION NOT TO EXCEED 25 AND SMOKE DEVELOPED INDEX NOT TO EXCEED 450 WHEN TESTED IN ACCORDANCE WITH ASTM E 84.
- 7. ALL FRAMED INTERIOR WALLS TO HAVE SOUND ATTENUATION BATT INSULATION.

REFLECTED CEILING KEYNOTES:

- 1 CMU LINTEL TO MATCH WALL
- 2 ACRYLIC STUCCO OVER PLASTER
- 3 EXPOSED GALVANIZED SPIRAL DUCTWORK - PAINT ACCENT COLOR, SEE MECHANICAL DRAWINGS
- 4 ROOF ACCESS HATCH
- 5 LINE OF COILED DOOR ENCLOSURE BELOW CEILING

LEGEND:

- ☐ PENDANT FLUORESCENT LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
- ☐ LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
- ☐ HALL MOUNT LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
- ☉ TUBULAR SKYLIGHT DIFFUSER - SEE SPECIFICATIONS

NOTES:

- 1. FOR SUPPORT OF PENDANT LIGHT FIXTURES SEE 10 (AXS) PER DSA IR 16-1 2014 CBC.

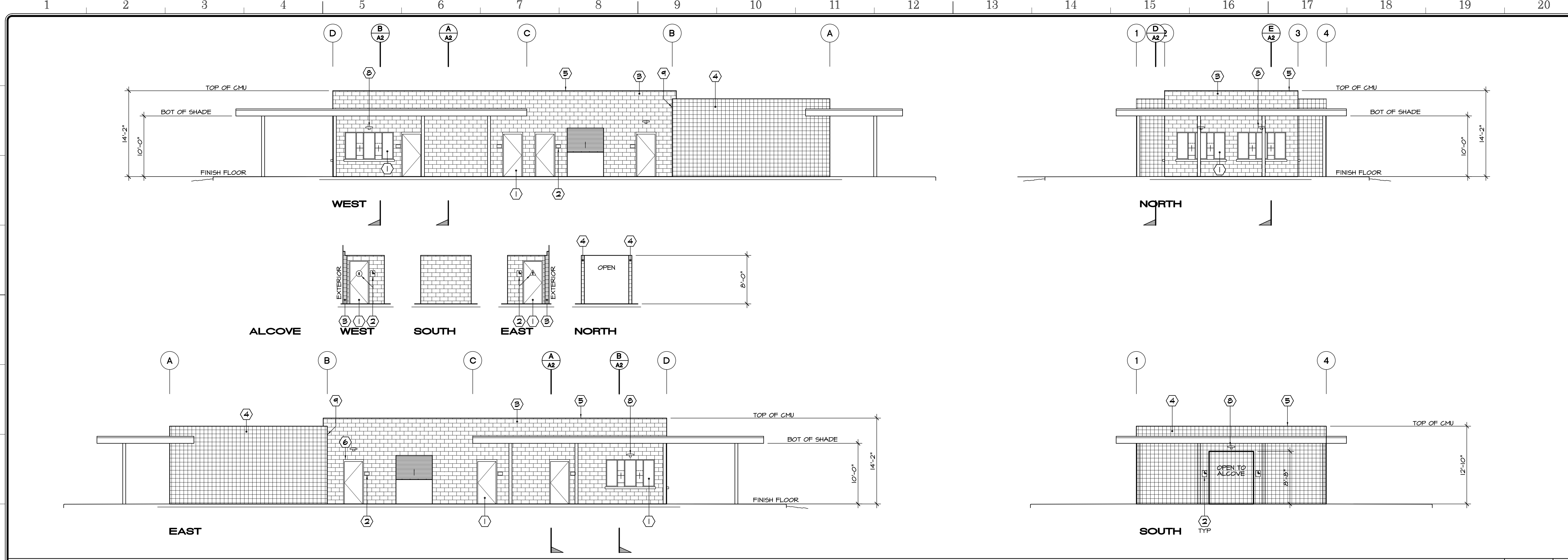
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Project Title
**IMPERIAL VALLEY COLLEGE
 RESTROOM/CONCESSION BUILDING**

Sheet Title
**ARCHITECTURAL SECTIONS,
 REFLECTED CEILING PLAN**

	Document Date	Project Number
	10-14-22	22-091V
	Date Last Revised	Sheet Number
		A2





EXTERIOR ELEVATIONS

SCALE: 1/8" = 1'-0" A

APPROVALS

KEYNOTES:

- ① DOOR / WINDOW PER PLAN
- ② SIGNAGE PER PLAN
- ③ CONCRETE MASONRY - RCP PRECISION BLOCK "OTAY RANCH BROWN"
- ④ CONCRETE MASONRY - RCP PRECISION BLOCK "BUFF"
- ⑤ CONCRETE MASONRY WALL CAP - TO MATCH WALL
- ⑥ SI DRIP EDGE ABOVE DOOR - PAINT TO MATCH DOOR
- ⑦ ROOF / STORM DRAIN DOWN SPOUT NOZZLE - SEE PLUMBING DRAWINGS
- ⑧ LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
- ⑨ MASONRY VERTICAL CONTROL JOINT AT PLASTER - SEE STRUCTURAL DRAWINGS

ROOF KEYNOTES:

- ① CRICKET w/ 1/2:12 MIN SLOPE
- ② ROOF / OVERFLOW DRAIN (AX5) - SEE PLUMBING DRAWINGS
- ③ MECHANICAL EQUIPMENT - SEE MECHANICAL DRAWINGS AND (1) (AX22)
- ④ 2" CMU WALL CAP - TO MATCH WALL
- ⑤ ROOF ACCESS HATCH w/ INTEGRATED FALL PROTECTION RAILINGS (10) (AX5)
- ⑥ PROVIDE PVC ROOF WALKPADS
- ⑦ OVERHANG CANOPY

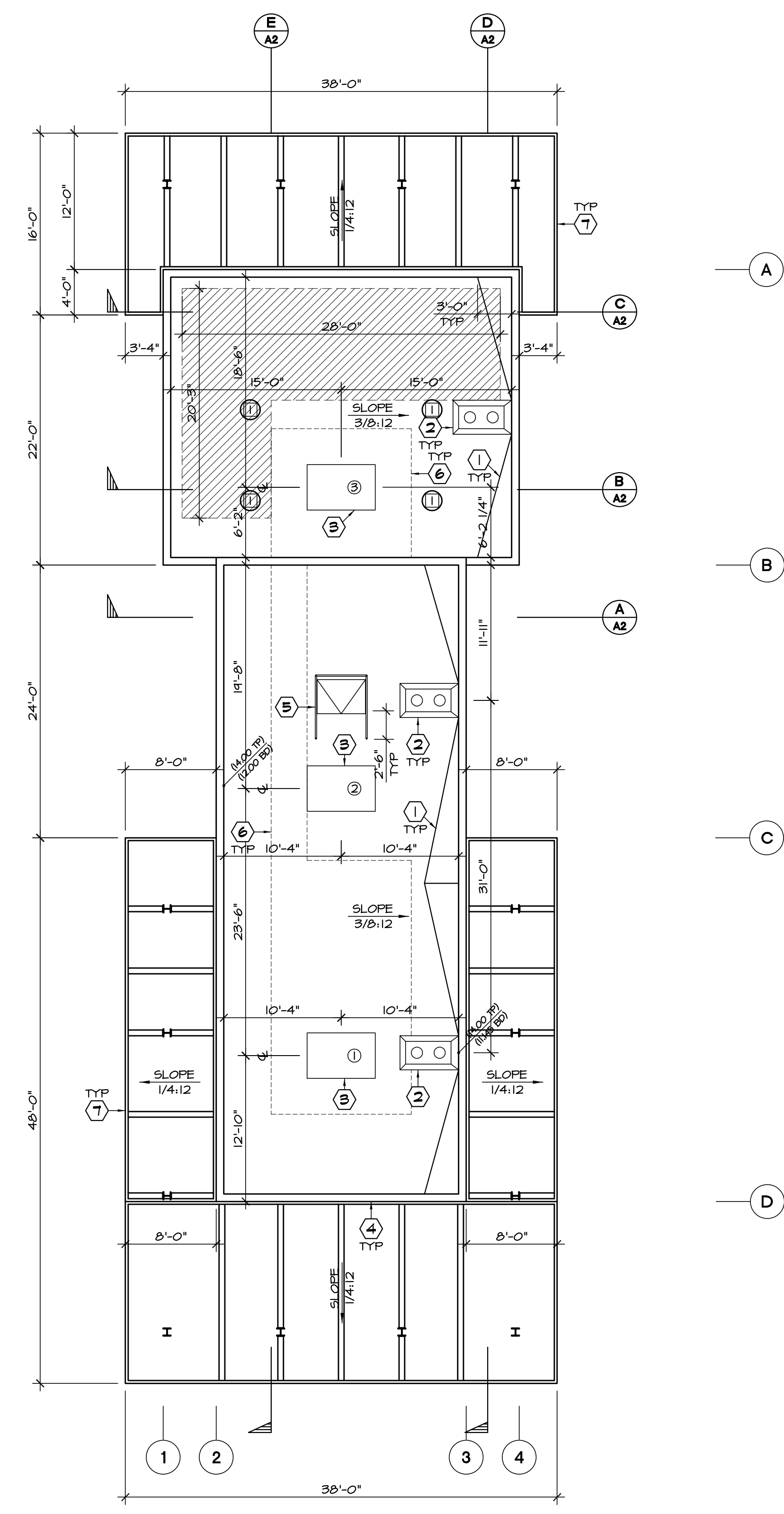
NOTES:

1. ALL ROOFS TO BE CLASS A (UNO) w/ MODIFIED BITUMINOUS MEMBRANE.
2. CONTRACTOR RESPONSIBLE TO VERIFY EXACT PLACEMENT OF ROOF MOUNTED MECHANICAL EQUIPMENT TO AVOID CONFLICTS WITH ELECTRICAL ITEMS, PLUMBING LINES, OR OTHER MECHANICAL EQUIPMENT.
3. ALL ROOFING OVER INSULATED ROOF SHALL BE PER MECHANICAL LOADS
4. ROOF TRUSS EQUIPMENT DEAD LOADS:

① HVAC PACKAGE UNIT	HP-1	626 lb
② HVAC PACKAGE UNIT	HP-2	330 lb
③ HVAC PACKAGE UNIT	HP-3	620 lb
- ① 21" TUBULAR SKYLIGHT (WINDOW NUMBER NOTED)
- ② 30 lb
5. SEE SHEET (17) (AX1) FOR WINDOW SCHEDULE
6. FOR ALL ROOF MOUNTED EQUIPMENT FLASHING, SEE (17) (AX3) / (17) (AX5)
7. FOR TYPICAL SUSPENDED METAL FRAMING TOP, SEE (17) (AX5)

LEGEND:

- SOLAR READY ROOF ZONE
- ROOF AREA = 2,140 SF ± 15% = 321 SF REQUIRED
- NO OBSTRUCTIONS, INCLUDING VENTS OR ROOF MOUNTED EQUIPMENT, SHALL BE LOCATED IN THE SOLAR ZONE.
- SPACE FOR INVERTER AND METERS/EQUIPMENT SHALL BE PROVIDED IN SECOND FLOOR ELECTRICAL ROOM 2BT. PROVIDE CONDUIT FROM ABOVE CEILING UNDER EA ZONE TO ELECTRICAL ROOM.
- TP, TOP OF PARAPET
- TD, BOTTOM OF DECK



ROOF PLAN

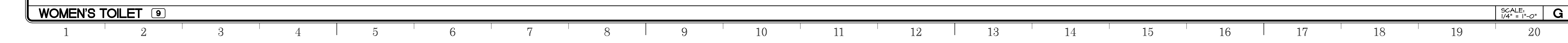
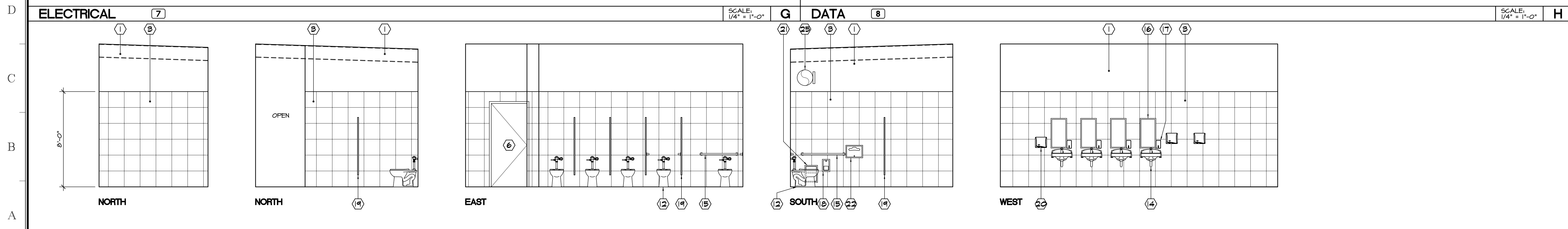
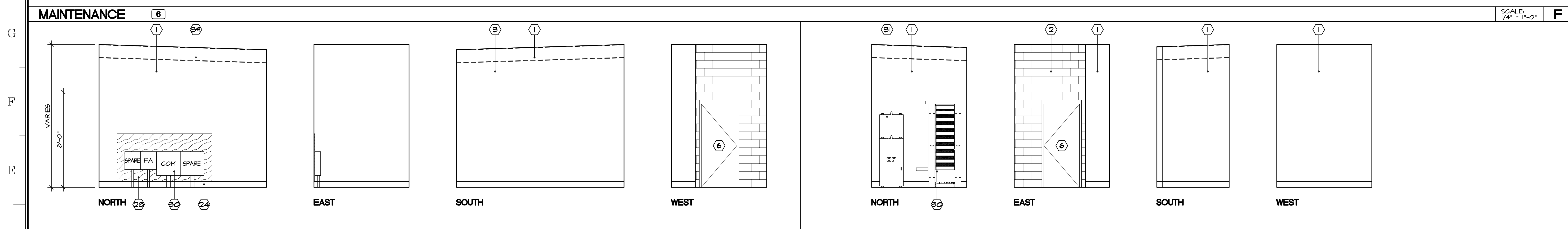
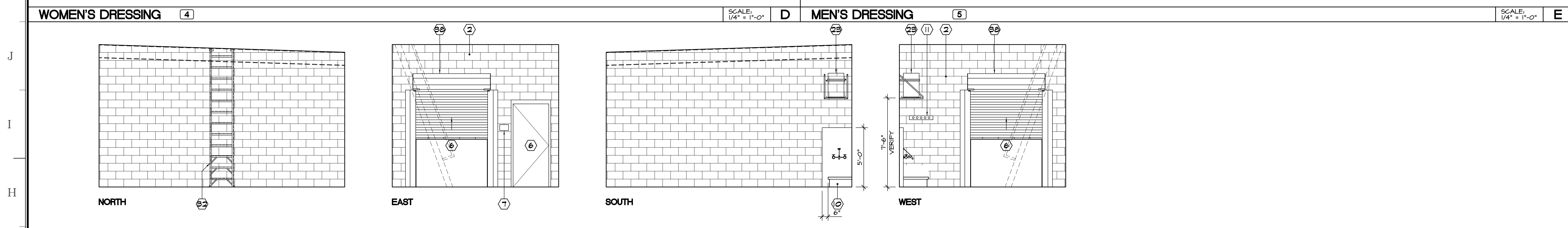
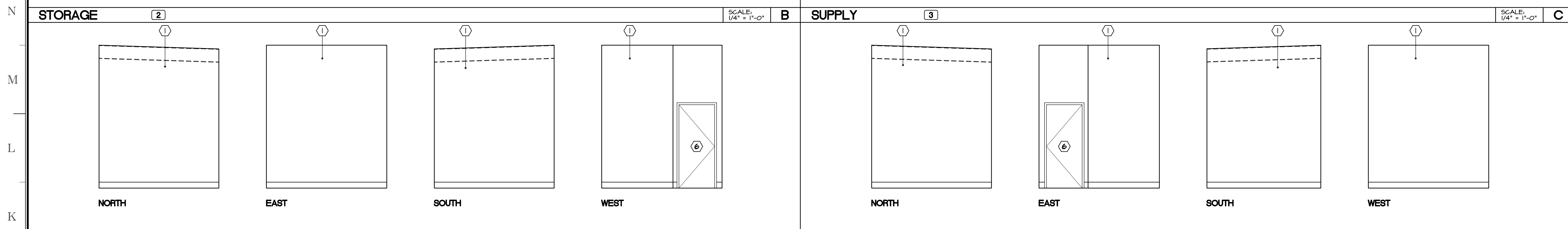
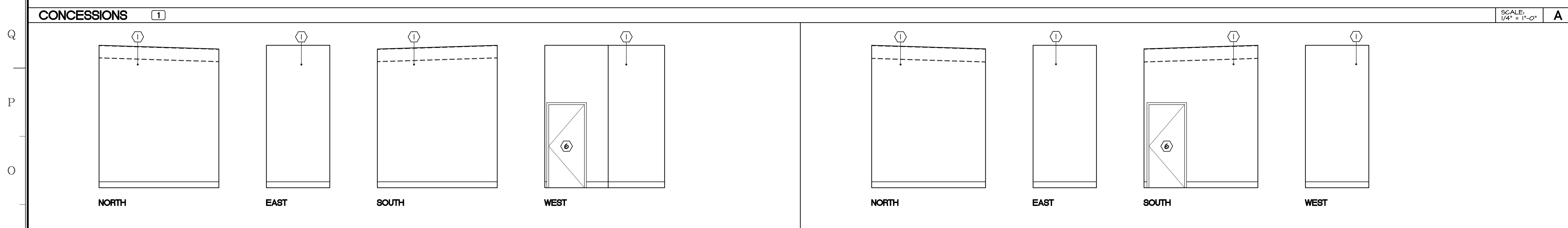
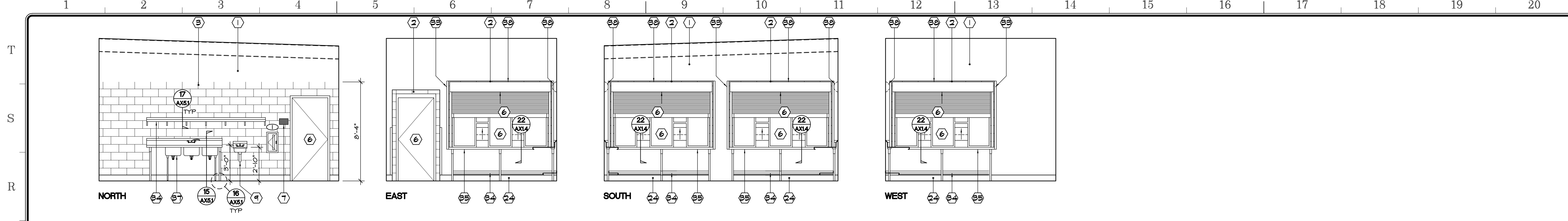
SCALE: 1/8" = 1'-0" F

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Project Title
**IMPERIAL VALLEY COLLEGE
 RESTROOM/CONCESSION BUILDING**

Sheet Title
EXTERIOR ELEVATIONS, ROOF PLAN

	Document Date	Project Number
	10-14-22	22-091V
	Date Last Revised	Sheet Number
		A3



APPROVALS

KEYNOTES:

- ① GYPSUM BOARD - TEXTURE, PAINT
- ② SMOOTH FACE CONCRETE MASONRY
- ③ CERAMIC TILE (3)
- ④ 6" RUBBER BASE TYPICAL, 4" @ CABINET TOE KICK
- ⑤ CERAMIC TILE BASE
- ⑥ DOOR / WINDOW PER PLAN
- ⑦ SIGNAGE - SEE SIGNAGE PLAN
- ⑧ ACCESSIBLE STAINLESS STEEL WORK STATION
- ⑨ ACCESSIBLE STAINLESS STEEL SINK - PER PLUMBING DRAWINGS
- ⑩ MOP SERVICE BASIN W/ STAINLESS STEEL WALL GUARD - SEE PLUMBING DRAWINGS
- ⑪ BROOM / MOP RACK - VERIFY MOUNTING HEIGHT - SEE SPECIFICATIONS
- ⑫ ACCESSIBLE WATER CLOSET - PER PLUMBING DRAWINGS
- ⑬ ACCESSIBLE URINAL - PER PLUMBING DRAWINGS
- ⑭ ACCESSIBLE LAVATORY - PER PLUMBING DRAWINGS
- ⑮ GRAB BARS - FOR ANCHORAGE SEE (E) (K)
- ⑯ MIRROR W/ STAINLESS STEEL FRAME - SEE SPECIFICATIONS (B) (K)
- ⑰ SOAP DISPENSER - SEE SPECIFICATIONS
- ⑱ SEMI-RECESSED TOILET PAPER HOLDER - SEE SPECIFICATIONS
- ⑲ TYP HEAVY DUTY TOILET PARTITION, HEAD RAIL BRACES - FOR ANCHORAGE SEE (20) (K)
- ⑳ HAND DRYER (MAX 4" PROJECTION) - SEE SPECIFICATIONS
- ㉑ RECESSED FEMININE NAPKIN DISPOSAL - SEE SPECIFICATIONS
- ㉒ RECESSED TOILET SEAT COVER DISPENSER - SEE SPECIFICATIONS
- ㉓ WATER HEATER ON SHELF - SEE PLUMBING DRAWINGS
- ㉔ 6" CONCRETE CURB - FINISH CONCRETE SMOOTH
- ㉕ HVAC DUCTWORK - SEE MECHANICAL DRAWINGS
- ㉖ TUBULAR SKYLIGHT PER PLAN
- ㉗ 12" WALL CLOCK - SEE SPECIFICATIONS
- ㉘ 4' x 8' x 3/4" PLYWOOD, PAINT
- ㉙ ELECTRICAL PANELS - SEE ELECTRICAL DRAWINGS
- ㉚ COMMUNICATIONS EQUIPMENT - SEE COMMUNICATIONS DRAWINGS
- ㉛ CONTROL PANEL - BBU UNIT (MUSCO)
- ㉜ ALUMINUM ROOF ACCESS SHIP'S LADDER - SEE SPECIFICATIONS (10) (K)
- ㉝ STAINLESS STEEL CORNER / WALL GAP / END WALL GUARD
- ㉞ STAINLESS STEEL SHELVES - SEE SPECIFICATIONS
- ㉟ STAINLESS STEEL COUNTER - SEE SPECIFICATIONS
- ⓪ NOT USED
- ⓫ STAINLESS STEEL SINK - SEE SPECIFICATIONS
- ⓬ COLLING DOOR / WINDOW HOUSING
- ⓭ ROOF FRAMING - PAINT

NOTES:

1. FOR ALL EQUIPMENT ITEMS (C) - SEE EQUIPMENT SCHEDULE
2. FOR ACCESSIBLE FIXTURE MOUNTING HEIGHTS SEE SHEET (B) (K)
3. WALL AND CEILING FINISHES SHALL MEET CLASS C, FLAME SPREAD RATINGS NOT TO EXCEED 200 AND SMOKE DENSITY NOT TO EXCEED 450 WHEN TESTED IN ACCORDANCE WITH CBC CHAPTER 8.
4. REFRIGERATOR / FREEZER COMBO REQUIRED TO BE "SIDE BY SIDE" OR COVER INDEX W/ 50% OF FREEZER SPACE BELOW 54". LOOK OF REFRIGERATOR SPACE AND CONTROLS BELOW 54" AND SHALL BE SELF-DEFROSTING.
5. FOR EQUIPMENT ANCHORAGE SEE (2) (K)

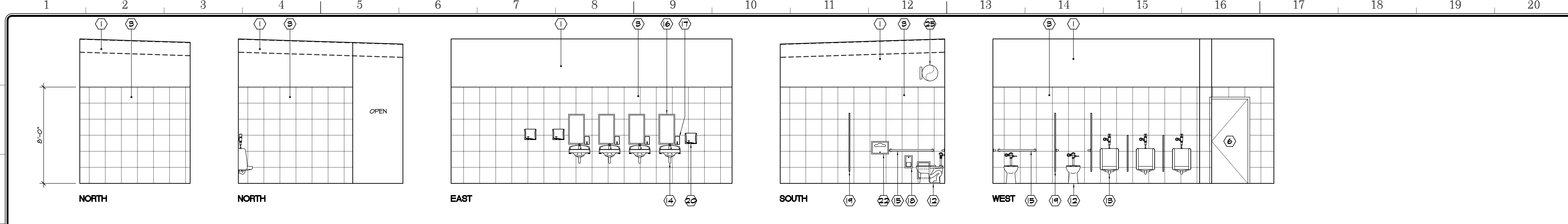
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Project Title
**IMPERIAL VALLEY COLLEGE
 CONCESSION/RESTROOM BUILDING**

Sheet Title
INTERIOR ELEVATIONS

	Document Date 10-14-22	Project Number 22-091V
	Date Last Revised	Sheet Number A.4.1



MEN'S TOILET 10 SCALE: 1/4" = 1'-0" **A**

APPROVALS

KEYNOTES:

- ① GYPSUM BOARD - TEXTURE, PAINT
- ② SMOOTH FACE CONCRETE MASONRY
- ③ CERAMIC TILE (B)
- ④ 6" RUBBER BASE TYPICAL, 4" @ CABINET TOE KICK
- ⑤ CERAMIC TILE BASE
- ⑥ DOOR / WINDOW PER PLAN
- ⑦ SIGNAGE - SEE SIGNAGE PLAN
- ⑧ ACCESSIBLE STAINLESS STEEL WORK STATION
- ⑨ ACCESSIBLE STAINLESS STEEL SINK - PER PLUMBING DRAWINGS
- ⑩ MOP SERVICE BASIN W/ STAINLESS STEEL WALL GUARD - SEE PLUMBING DRAWINGS
- ⑪ BROOM / MOP RACK - VERIFY MOUNTING HEIGHT - SEE SPECIFICATIONS
- ⑫ ACCESSIBLE WATER CLOSET - PER PLUMBING DRAWINGS
- ⑬ ACCESSIBLE URINAL - PER PLUMBING DRAWINGS
- ⑭ ACCESSIBLE LAVATORY - PER PLUMBING DRAWINGS
- ⑮ GRAB BARS - FOR ANCHORAGE SEE (E) (K)
- ⑯ MIRROR W/ STAINLESS STEEL FRAME - SEE SPECIFICATIONS (B) (K)
- ⑰ SOAP DISPENSER - SEE SPECIFICATIONS
- ⑱ SEMI-RECESSED TOILET PAPER HOLDER - SEE SPECIFICATIONS
- ⑲ TYP HEAVY DUTY TOILET PARTITION, HEAD RAIL BRACES - FOR ANCHORAGE SEE (K) (K)
- ⑳ HAND DRYER (MAX 4" PROJECTION) - SEE SPECIFICATIONS
- ㉑ RECESSED FEMININE NAPKIN DISPOSAL - SEE SPECIFICATIONS
- ㉒ RECESSED TOILET SEAT COVER DISPENSER - SEE SPECIFICATIONS
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- ㉔ 6" CONCRETE CURB - FINISH CONCRETE SMOOTH
- ㉕ HVAC DUCTWORK - SEE MECHANICAL DRAWINGS
- ㉖ TUBULAR SKYLIGHT PER PLAN
- ㉗ 12" WALL CLOCK - SEE SPECIFICATIONS
- ㉘ 4' x 8' x 3/4" PLYWOOD, PAINT
- ㉙ ELECTRICAL PANELS - SEE ELECTRICAL DRAWINGS
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- ⓪ NOT USED
- Ⓛ STAINLESS STEEL SINK - SEE SPECIFICATIONS
- Ⓜ COLLING DOOR / WINDOW HOUSING
- Ⓨ ROOF FRAMING - PAINT

NOTES:

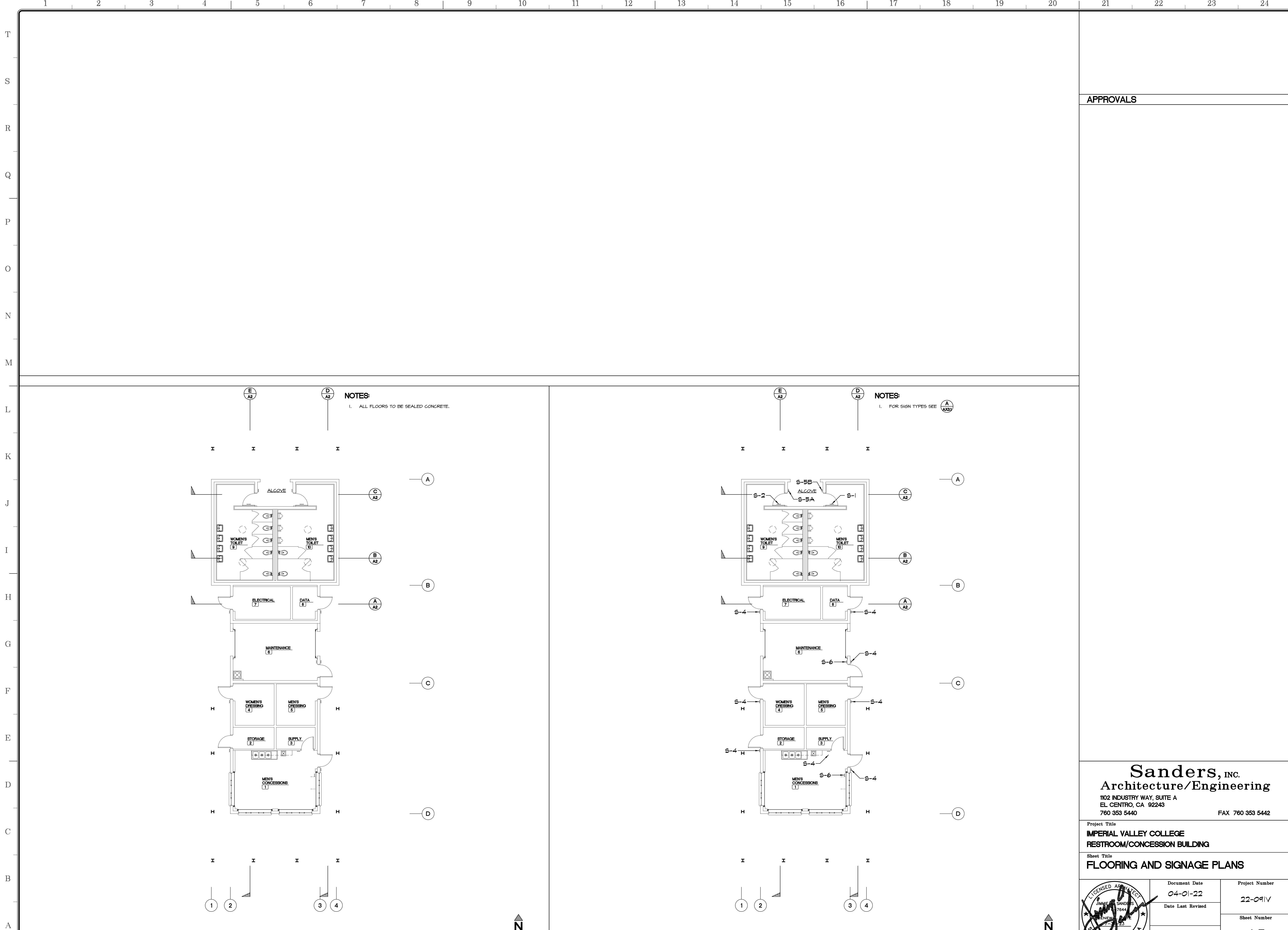
1. FOR ALL EQUIPMENT ITEMS (C) - SEE EQUIPMENT SCHEDULE
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3. WALL AND CEILING FINISHES SHALL MEET CLASS C, FLAME SPREAD RATINGS NOT TO EXCEED 200 AND SMOKE DENSITY NOT TO EXCEED 450 WHEN TESTED IN ACCORDANCE WITH CBC CHAPTER 8.
4. REFRIGERATOR / FREEZER COMBO REQUIRED TO BE "SIDE BY SIDE" OR OVER-UNDER w/ 50% OF FREEZER SPACE BELOW 54" LOOK OF REFRIGERATOR SPACE AND CONTROLS BELOW 54" AND SHALL BE SELF-DEFROSTING.
5. FOR EQUIPMENT ANCHORAGE SEE (K) (K)

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 CONCESSION/RESTROOM BUILDING**

Sheet Title
INTERIOR ELEVATIONS

	Document Date 10-14-22	Project Number 22-091V
	Date Last Revised	Sheet Number A4.2



NOTES:

1. ALL FLOORS TO BE SEALED CONCRETE.

NOTES:

1. FOR SIGN TYPES SEE (A) (A33)

FLOORING PLAN

SIGNAGE PLAN

APPROVALS

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Project Title
**IMPERIAL VALLEY COLLEGE
 RESTROOM/CONCESSION BUILDING**

Sheet Title
FLOORING AND SIGNAGE PLANS

	Document Date 04-01-22	Project Number 22-091V
	Date Last Revised	Sheet Number A5

ROOM FINISH SCHEDULE

BUILDING	RM NO	NAME	FLOOR	BASE		WALLS				WAINSCOT		CEILING		CABINETS		REMARKS
				HT	MATERIAL	NORTH	EAST	SOUTH	WEST	HT	MATERIAL	HT	MATERIAL	HT	MATERIAL	
BUILDING	1	CONCESSIONS	SEALED CONCRETE	6"	RUBBER/SEAL CONCRETE	GYP BD, PINK/GRN TILE	GYP BD, PAINT	GYP BD, PAINT	GYP BD, PAINT	N/A	N/A	OPEN	N/A	N/A	STAINLESS STEEL	
	2	STORAGE	SEALED CONCRETE	6"	RUBBER/SEAL CONCRETE	GYP BD, PAINT	GYP BD, PAINT	GYP BD, PAINT	GYP BD, PAINT	N/A	N/A	OPEN	N/A	N/A	N/A	
	3	SUPPLY	SEALED CONCRETE	6"	RUBBER/SEAL CONCRETE	GYP BD, PAINT	GYP BD, PAINT	GYP BD, PAINT	GYP BD, PAINT	N/A	N/A	OPEN	N/A	N/A	STAINLESS STEEL	
	4	WOMEN'S DRESSING	SEALED CONCRETE	6"	RUBBER/SEAL CONCRETE	GYP BD, PAINT	GYP BD, PAINT	GYP BD, PAINT	GYP BD, MASONRY	N/A	N/A	OPEN	N/A	N/A	N/A	
	5	MEN'S DRESSING	SEALED CONCRETE	6"	RUBBER/SEAL CONCRETE	GYP BD, PAINT	GYP BD, MASONRY	GYP BD, PAINT	GYP BD, PAINT	N/A	N/A	OPEN	N/A	N/A	N/A	
	6	MAINTENANCE	SEALED CONCRETE	6"	RUBBER/SEAL CONCRETE	MASONRY	GYP BD, MASONRY	GYP BD, PAINT	GYP BD, PAINT	N/A	N/A	OPEN	N/A	N/A	N/A	
	7	ELECTRICAL	SEALED CONCRETE	6"	RUBBER/SEAL CONCRETE	GYP BD, PAINT	GYP BD, PAINT	GYP BD, PAINT	GYP BD, PAINT	N/A	N/A	OPEN	N/A	N/A	N/A	
	8	DATA	SEALED CONCRETE	6"	RUBBER/SEAL CONCRETE	GYP BD, PAINT	GYP BD, MASONRY	GYP BD, PAINT	GYP BD, PAINT	N/A	N/A	OPEN	N/A	N/A	N/A	
	9	WOMEN'S TOILET	SEALED CONCRETE	N/A	N/A	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	N/A	N/A	OPEN	N/A	N/A	N/A	
	10	MEN'S TOILET	SEALED CONCRETE	N/A	N/A	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	N/A	N/A	OPEN	N/A	N/A	N/A	

DOOR SCHEDULE

BUILDING	NO	TYPE	DOOR				FRAME	HARDWARE HEADING	SECURITY LOCK REQUIRED	FIRE RATING	GLAZING		FRAME DETAILS - SHEET AX14 UNO				REMARKS
			SIZE	THICKNESS	CORE	MATERIAL					TYPE	LOW-E / TINT	JAMB	SILL	HEAD	MULLION	
BUILDING	1	S-1	3'-0" x 7'-0"	1 3/4"-16 GA	POLYURETHANE	STEEL	MTL-16 GA	1	N	NR	N/A	N/A	1	14	1	N/A	
	2	S-1	3'-0" x 7'-0"	1 3/4"-16 GA	POLYURETHANE	STEEL	MTL-16 GA	1	N	NR	N/A	N/A	1	14	1	N/A	
	3	S-1	3'-0" x 7'-0"	1 3/4"-16 GA	POLYURETHANE	STEEL	MTL-16 GA	1	N	NR	N/A	N/A	1	14	1	N/A	
	4	R-2	6'-0" x 8'-0"	18 GA	N/A	STEEL	STEEL	N/A	N	NR	N/A	N/A	23	N/A	23	N/A	MOTORIZED COILING DOOR, CONTROLS 48" MAX AFF
	5	S-1	3'-0" x 7'-0"	1 3/4"-16 GA	POLYURETHANE	STEEL	MTL-16 GA	2	N	NR	N/A	N/A	1	14	1	N/A	
	6	S-1	3'-0" x 7'-0"	1 3/4"-16 GA	POLYURETHANE	STEEL	MTL-16 GA	1	N	NR	N/A	N/A	1	14	1	N/A	
	7	S-1	3'-0" x 7'-0"	1 3/4"-16 GA	POLYURETHANE	STEEL	MTL-16 GA	2	N	NR	N/A	N/A	1	14	1	N/A	
	8	S-1	3'-0" x 7'-0"	1 3/4"-16 GA	POLYURETHANE	STEEL	MTL-16 GA	1	N	NR	N/A	N/A	1	14	1	N/A	
	9	R-2	6'-0" x 8'-0"	18 GA	N/A	STEEL	STEEL	N/A	N	NR	N/A	N/A	23	N/A	23	N/A	MOTORIZED COILING DOOR, CONTROLS 48" MAX AFF
	10	S-1	3'-0" x 7'-0"	1 3/4"-16 GA	POLYURETHANE	STEEL	MTL-16 GA	1	N	NR	N/A	N/A	1	14	1	N/A	
	11	S-1	3'-0" x 7'-0"	1 3/4"-16 GA	POLYURETHANE	STEEL	MTL-16 GA	1	N	NR	N/A	N/A	1	14	1	N/A	
	12	S-2	3'-0" x 7'-0"	1 3/4"-16 GA	POLYURETHANE	STEEL	MTL-16 GA	3	N	NR	N/A	N/A	3	14	3	N/A	

WINDOW SCHEDULE

BUILDING	NO	TYPE	WINDOW			FRAME	TYPE	FIRE RATING	FRAME DETAILS - SHEET AX14 UNO				REMARKS
			SIZE	TYPE	LOW-E / TINT				JAMB	SILL	HEAD	MULLION	
BLDG	1	B 4 C	8'-0" x 4'-6"	1/4" LAMINATED SOLARBAN 10XLBK2	ALUMINUM	FIXED/SLIDE	NR	T, 22, 23	T, 22, 23	T, 22, 23	13 (5M)	MOTORIZED COILING SHUTTER, CONTROLS 48" MAX AFF	
	2	B 4 C	8'-0" x 4'-6"	1/4" LAMINATED SOLARBAN 10XLBK2	ALUMINUM	FIXED/SLIDE	NR	T, 22, 23	T, 22, 23	T, 22, 23	13 (5M)	MOTORIZED COILING SHUTTER, CONTROLS 48" MAX AFF	
	3	B 4 C	8'-0" x 4'-6"	1/4" LAMINATED SOLARBAN 10XLBK2	ALUMINUM	FIXED/SLIDE	NR	T, 22, 23	T, 22, 23	T, 22, 23	13 (5M)	MOTORIZED COILING SHUTTER, CONTROLS 48" MAX AFF	
	4	B 4 C	8'-0" x 4'-6"	1/4" LAMINATED SOLARBAN 10XLBK2	ALUMINUM	FIXED/SLIDE	NR	T, 22, 23	T, 22, 23	T, 22, 23	13 (5M)	MOTORIZED COILING SHUTTER, CONTROLS 48" MAX AFF	
	5-8	F	21" DIA	INSULATED	SOLARBAN 10XLBK2	MTL-16 GA	FIXED	NR	N/A	N/A	N/A	N/A	SEE DETAIL 16/AX14

EQUIPMENT SCHEDULE:

ITEM	DESCRIPTION	QTY	SIZE				ELECTRICAL				PLUMBING AND MECHANICAL				CLASSIFICATION (SEE NOTES)	ANCHORAGE DETAIL	REMARKS			
			WIDTH	DEPTH	HEIGHT	VOLTS	PHASE	KW	HP	AMPS	CONNECTION	COLD	WATER	HOT				DRAIN	GAS	AIR
1	FIRE EXTINGUISHER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	C	M/AX3J	4" MAX PROJECTION FROM WALL FINISH (INCLUDING HANDLE)
2	REFRIGERATOR / FREEZER COMBO	1	-	-	-	120	1	-	-	20	-	-	-	-	-	-	-	O		
3	STAINLESS STEEL CART	2	54"	24"	36"	-	-	-	-	-	-	-	-	-	-	-	-	C		
4	STEEL STATIONARY SHELVING	3	VARIABLES	18"	12"	-	-	-	-	-	-	-	-	-	-	-	-	C	I7/AX5J	SIZE TO FIT PER PLAN

APPROVALS

- ROOM FINISH SCHEDULE NOTES:**
- ALL OUTSIDE GYP-BRD CORNERS & WALLS AND SOFFITS SHALL BE FINISHED WITH BULLNOSE PAPER FACED METAL CORNER BEAD.
 - GYPSUM BOARD FINISH AT WALLS & CEILING: TEXTURED LIGHT SKIN TRIMBLE. PROVIDE SAMPLE FOR APPROVAL.
 - ALL INTERIOR FINISHES SHALL COMPLY W/ CBC CHAPTER 8, CFC CHAPTER 8, AND CCR TITLE 19, 3.08 AND 3.21.
 - SLIP RESISTANT TILE, SLIP RESISTANT TILE SHALL HAVE SUFFICIENT ABRASIVES ADDED SUCH THAT THE STATIC COEFFICIENT OF FRICTION (SCOF) SHALL BE NOT LESS THAN 0.6 FOR WALKING SURFACES AND 0.8 FOR RAMPS WHEN TESTED IN ACCORDANCE W/ ASTM DESIGNATION: C 1029.
 - ALL ONE HOUR RATED CEILING AND WALLS SHALL BE AS PER C.B.C. TABLE 1201, 14-1.3.
 - ALL INTERIOR FINISHES SHALL BE OF MAX FLAME SPREAD CLASS II W/ AN INDEX OF 26-75.
 - SEE SHEET (AX14) FOR FLOORING TRANSITION DETAIL.

DOOR SCHEDULE NOTES:

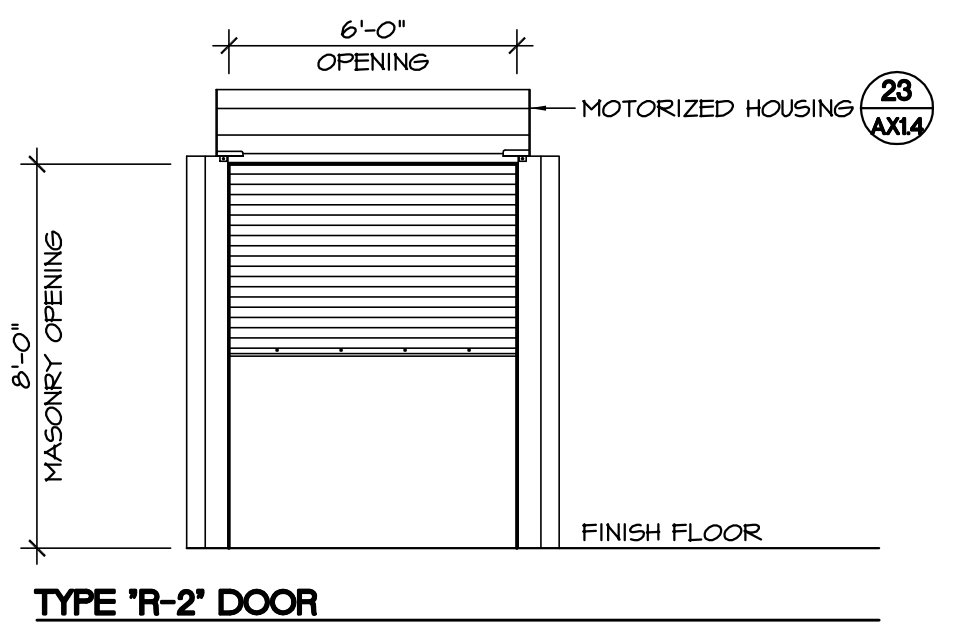
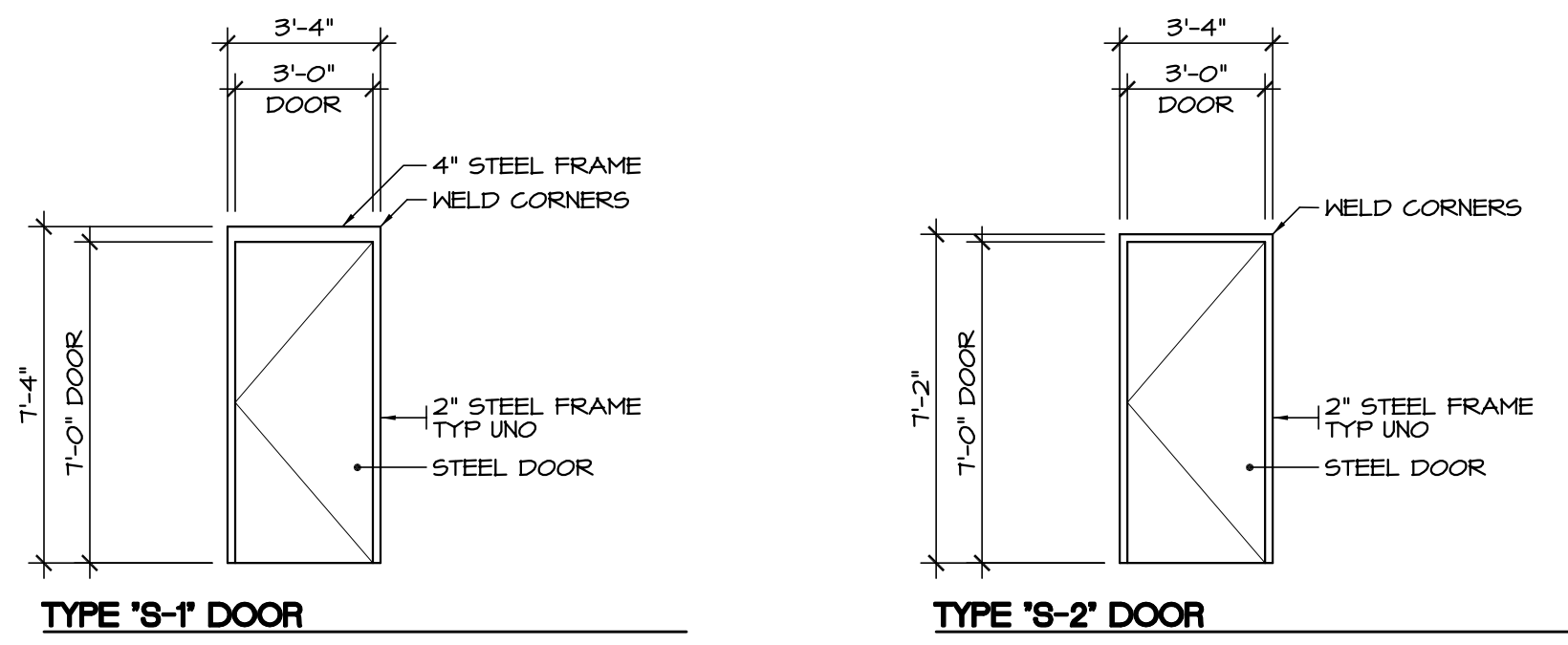
- FOR DOOR TYPES SEE (A) (AX1) (B) (AX1) (C) (AX1) FOR SIGNAGE.
- SEE (A) (F) (AX1) FOR SIGNAGE.
- ALL DOOR THRESHOLD SHALL COMPLY W/ (14) (AX1).
- FOR LIGHTED EXIT SIGNS SEE ELECTRICAL DRAWINGS.
- TACTILE SIGNAGE AT EXIT DOORS MUST READ "EXIT" AND "EXIT ROUTE" AT DOORS LEADING TO EXIT DOORS.
- MINIMUM FRAME LAP AT GLAZING IS 1/4" AND MINIMUM GLASS EDGE CLEARANCE IS 1/8".
- EACH GLAZING LIGHT SHALL BEAR THE MANUFACTURER'S LABEL DESIGNATING THE TYPE AND THICKNESS OF GLASS. WHEN APPROVED BY THE ENFORCING AGENCY, LABELS MAY BE OMITTED FROM OTHER THAN SAFETY GLAZING MATERIALS, PROVIDED AN AFFIDAVIT IS FURNISHED BY THE GLAZING CONTRACTOR CERTIFYING THAT EACH LIGHT IS GLAZED IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS.
- EACH LIGHT OF SAFETY GLAZING MATERIAL SHALL BE IDENTIFIED BY A PERMANENT LABEL THAT SPECIFIES THE LABELER, WHETHER THE MANUFACTURE OR INSTALLER, AND STATE THAT SAFETY GLAZING MATERIAL HAS BEEN UTILIZED IN SUCH INSTALLATION AND SHALL SPECIFY THAT THE LABEL SHALL NOT BE REMOVED. THE IDENTIFICATION SHALL BE ETCHED OR CERAMIC FIRED ON THE GLASS AND READABLE FROM THE INSIDE OF THE BLDG'S AFTER INSTALLATION.
- GLAZING AT EXTERIOR DOOR SHALL BE MOUNTED ON EXTERIOR SIDE OF JAMBS.
- MAXIMUM EFFORT TO OPERATE DOOR SHALL NOT EXCEED 5lbs. (22 N) PER (CBC 10081.2).
- ALL EXIT DOORS SHALL OPERABLE FROM INSIDE W/O ANY SPECIAL KNOWLEDGE, EFFORT OR TOOLS.
- FOR HARDWARE HEADINGS SEE SPECIFICATIONS.

WINDOW SCHEDULE NOTES:

- FOR WINDOW TYPES SEE (C) (AX1).
- MINIMUM FRAME LAP AT GLAZING IS 1/4" AND MINIMUM GLASS EDGE CLEARANCE IS 1/8".
- EACH GLAZING LIGHT SHALL BEAR THE MANUFACTURER'S LABEL DESIGNATING THE TYPE AND THICKNESS OF GLASS. WHEN APPROVED BY THE ENFORCING AGENCY, LABELS MAY BE OMITTED FROM OTHER THAN SAFETY GLAZING MATERIALS, PROVIDED AN AFFIDAVIT IS FURNISHED BY THE GLAZING CONTRACTOR CERTIFYING THAT EACH LIGHT IS GLAZED IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS.
- EACH LIGHT OF SAFETY GLAZING MATERIAL SHALL BE IDENTIFIED BY A PERMANENT LABEL THAT SPECIFIES THE LABELER, WHETHER THE MANUFACTURE OR INSTALLER, AND STATE THAT SAFETY GLAZING MATERIAL HAS BEEN UTILIZED IN SUCH INSTALLATION AND SHALL SPECIFY THAT THE LABEL SHALL NOT BE REMOVED. THE IDENTIFICATION SHALL BE ETCHED OR CERAMIC FIRED ON THE GLASS AND READABLE FROM THE INSIDE OF THE BLDG'S AFTER INSTALLATION.
- GLAZING AT EXTERIOR WINDOW SHALL BE MOUNTED ON EXTERIOR SIDE OF JAMBS.
- SKYLIGHTS SHALL BE INSTALLED IN ACCORDANCE W/ 2019 CBC SECTION 2610 AND 2405.
- ALL FIRE RESISTIVE ASSEMBLIES FOR PROTECTION OF OPENINGS SHALL COMPLY WITH THE PROVISIONS OF CBC SECTION 716.

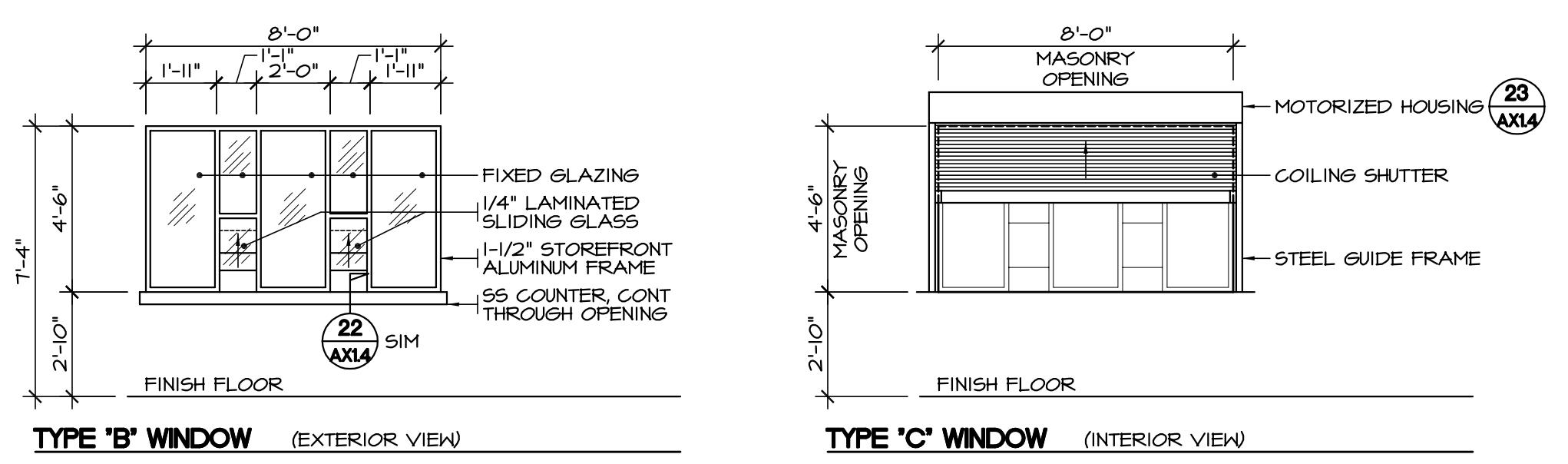
EQUIPMENT SCHEDULE NOTES:

- EQUIPMENT CLASSIFICATIONS:
B - OWNER FURNISHED, CONTRACTOR INSTALLED
C - CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
O - OWNER FURNISHED, OWNER INSTALLED
F - OTHER
- ITEMS NOT IN CONTRACT ARE NOT PART OF DSA APPROVAL.



STEEL FRAME DOOR TYPES SCALE: 1/4" = 1'-0" **A**

ROLLING DOOR TYPES SCALE: 1/4" = 1'-0" **B**



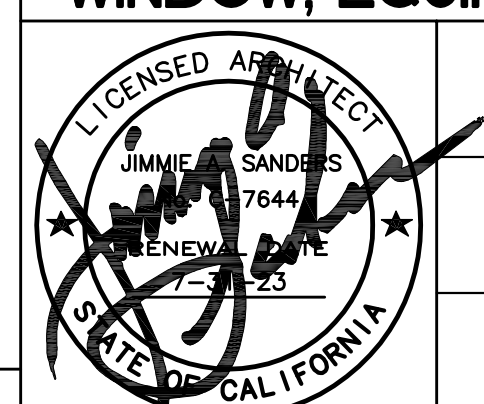
WINDOW TYPES SCALE: 1/4" = 1'-0" **C**

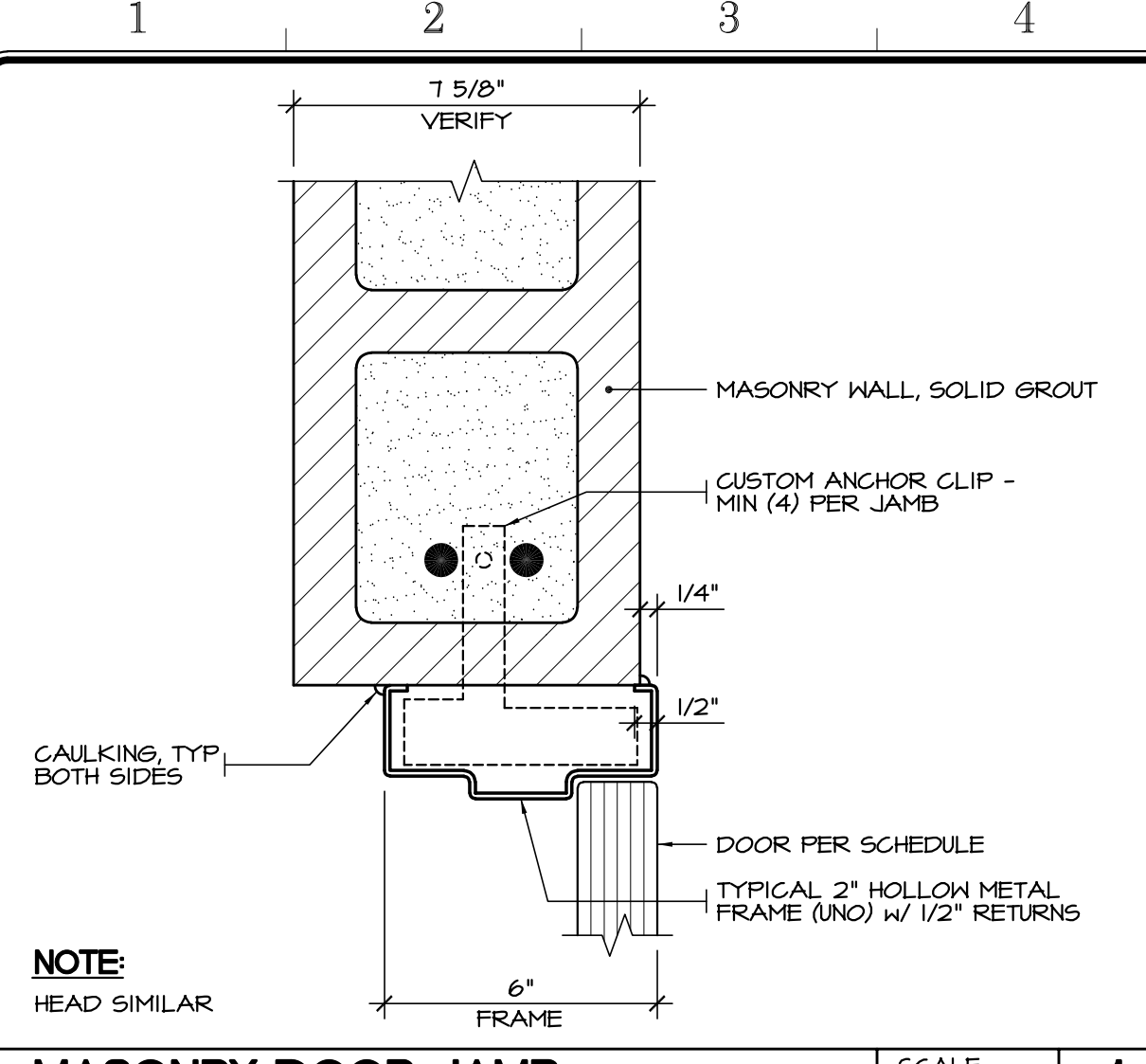
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Project Title
**IMPERIAL VALLEY COLLEGE
RESTROOM/CONCESSION BUILDING**

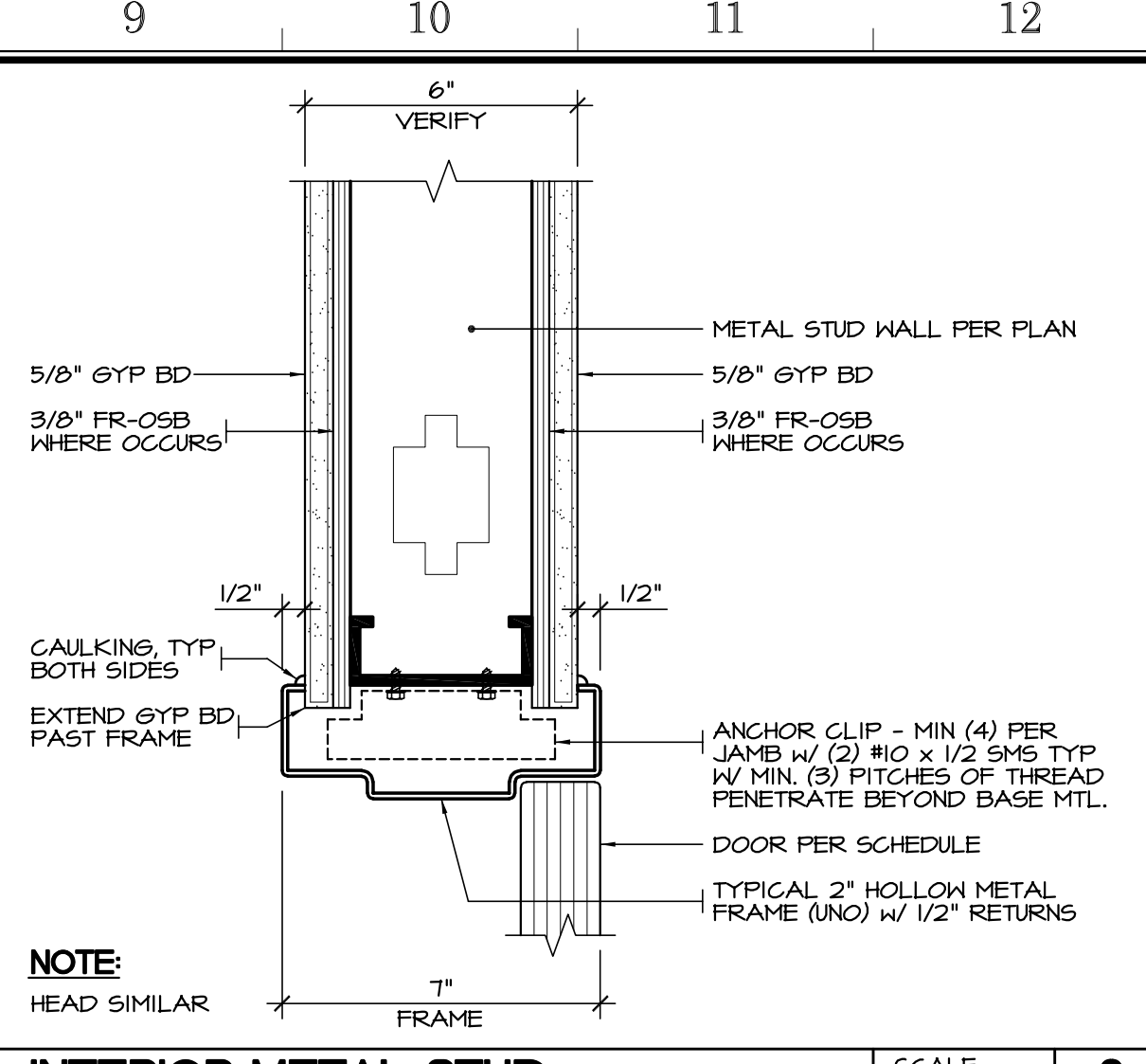
Sheet Title
**ROOM FINISH, DOOR SCHEDULES
WINDOW, EQUIPMENT SCHEDULES**

Document Date: 03-01-22
Date Last Revised: _____
Project Number: 22-091V
Sheet Number: **AX11**

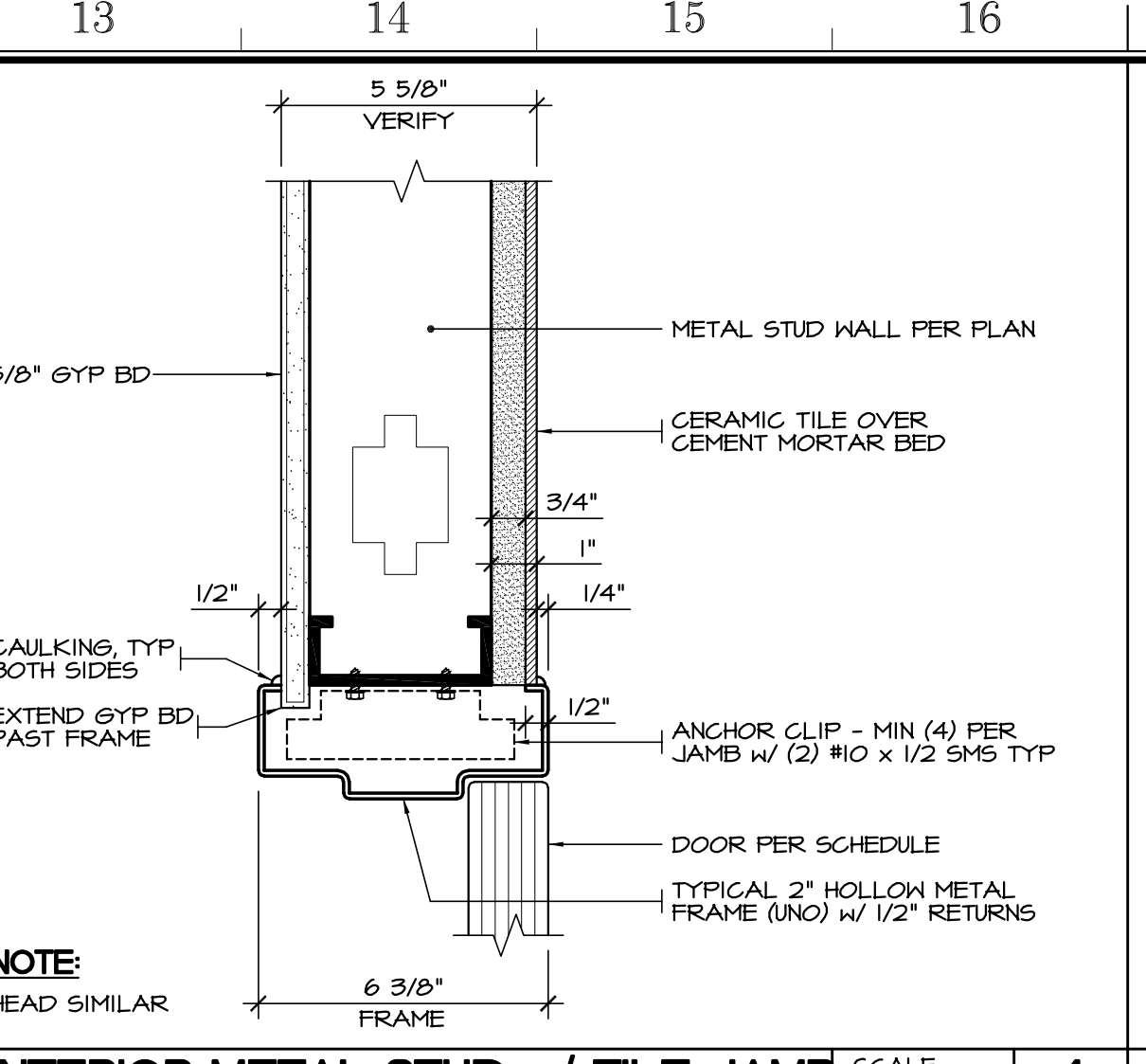




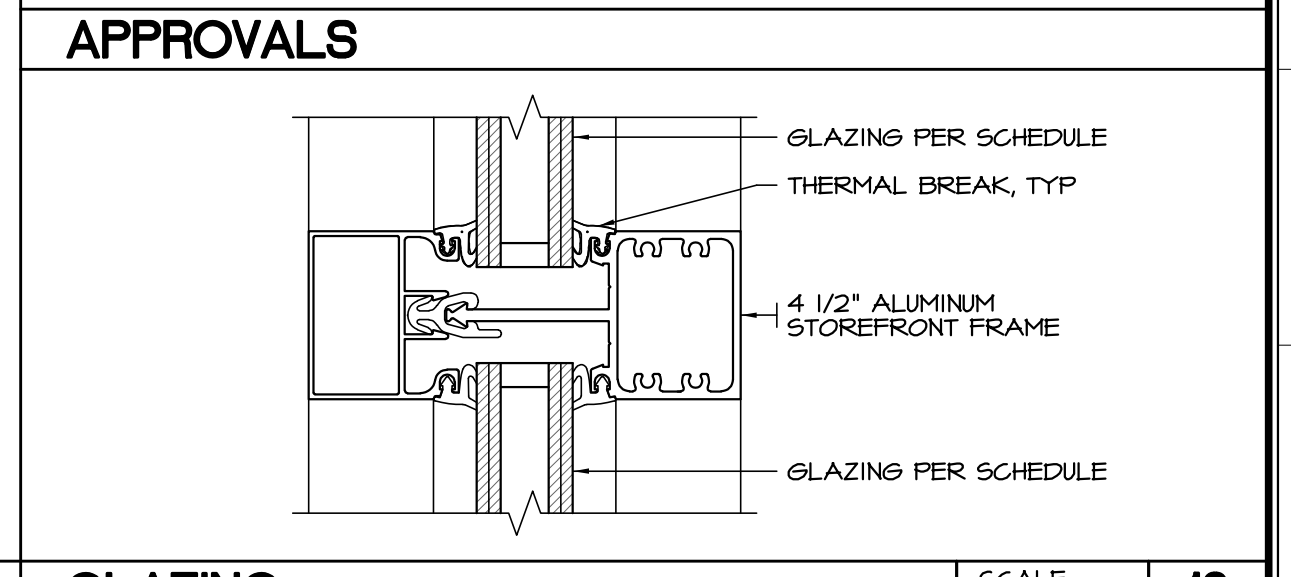
MASONRY DOOR JAMB SCALE: 3/8" = 1'-0" **1**



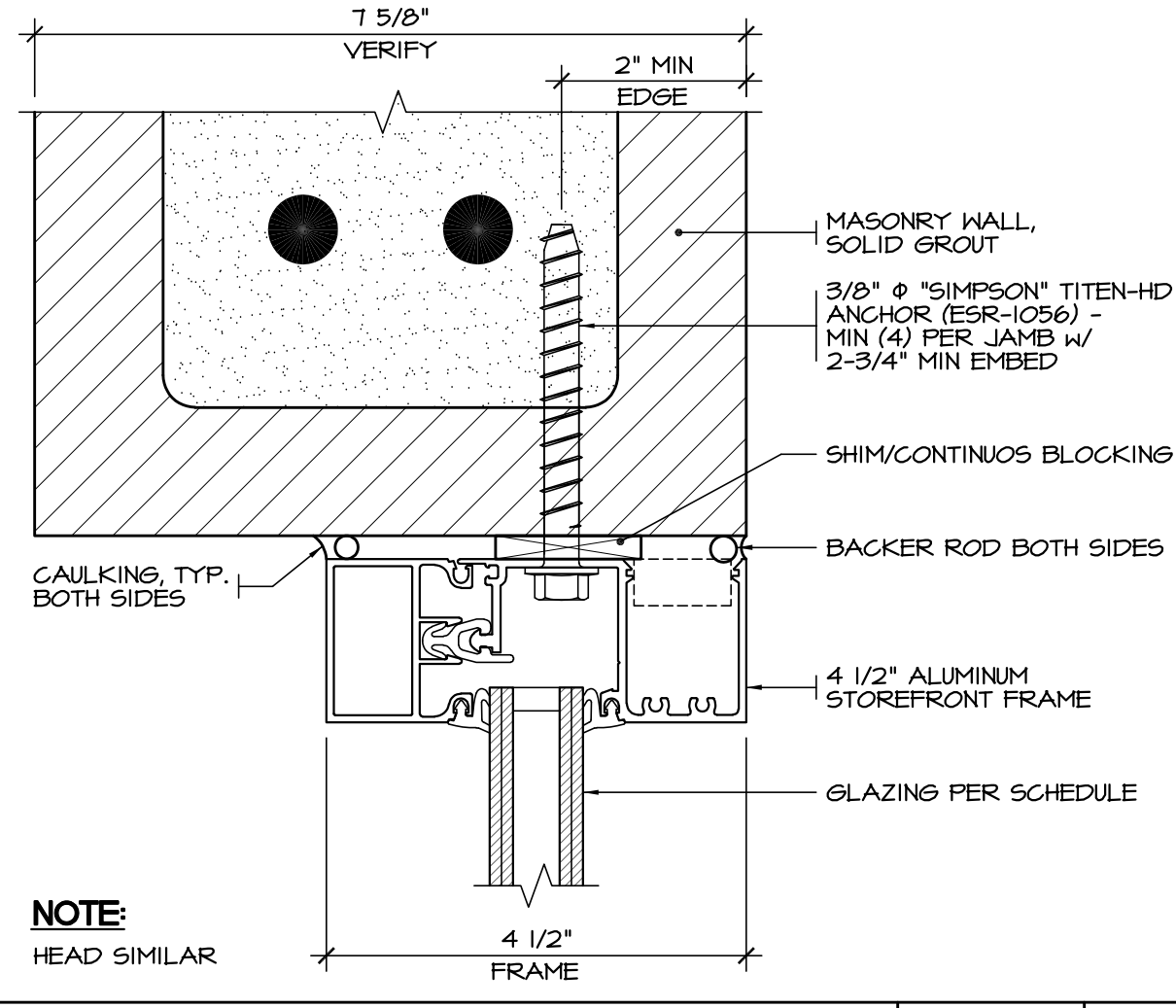
INTERIOR METAL STUD SCALE: 3/8" = 1'-0" **3**



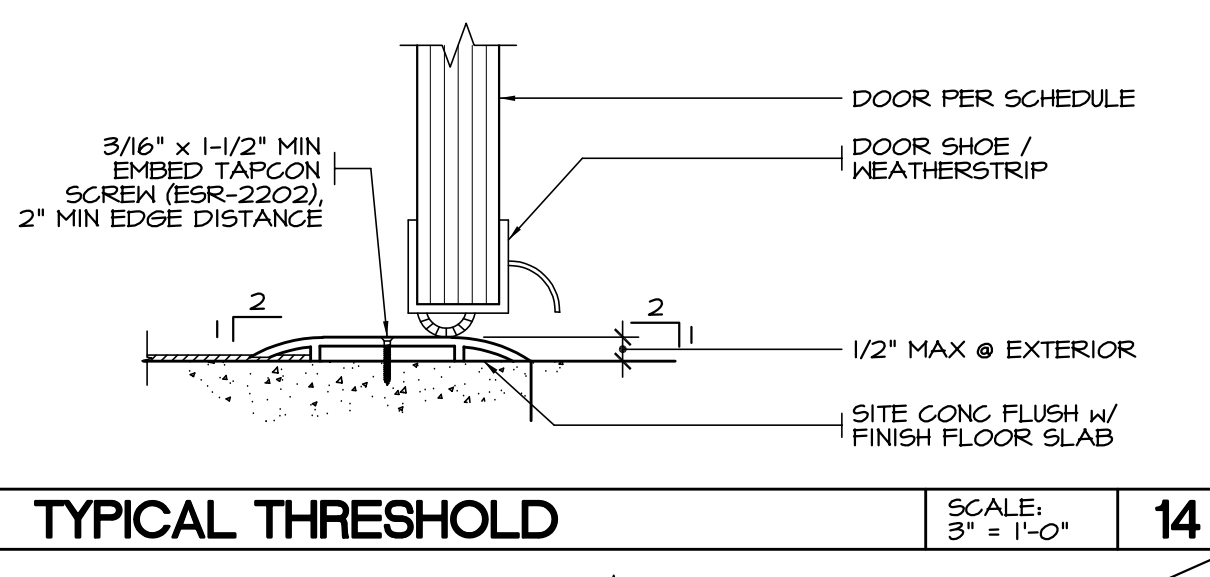
INTERIOR METAL STUD w/ TILE JAMB SCALE: 3/8" = 1'-0" **4**



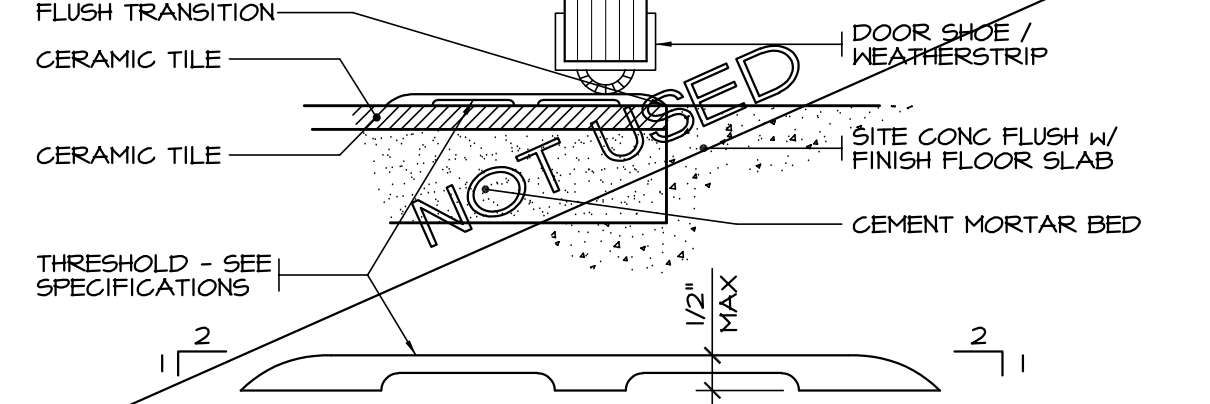
GLAZING SCALE: 3/8" = 1'-0" **13**



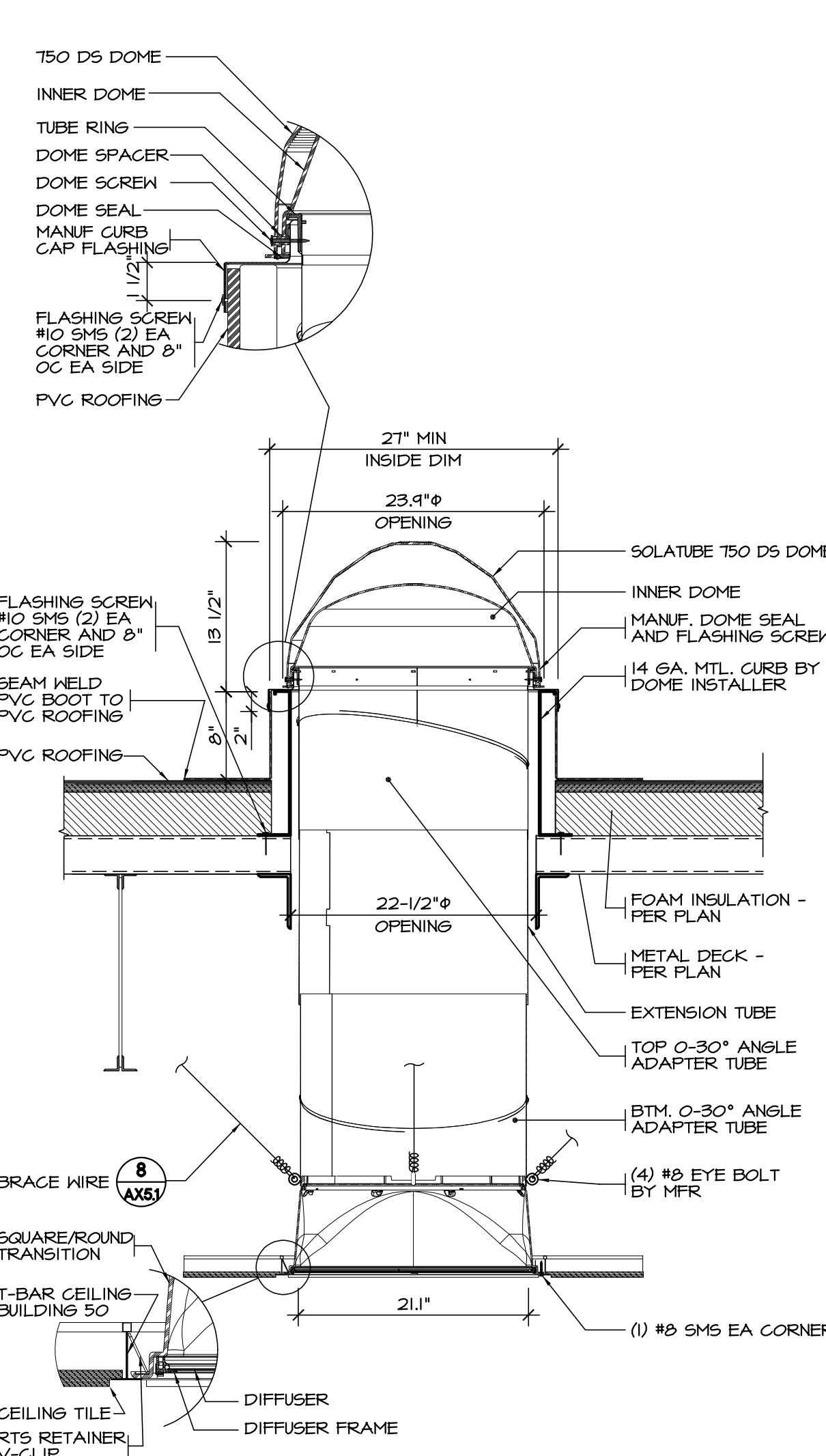
MASONRY WINDOW JAMB SCALE: 3/8" = 1'-0" **7**



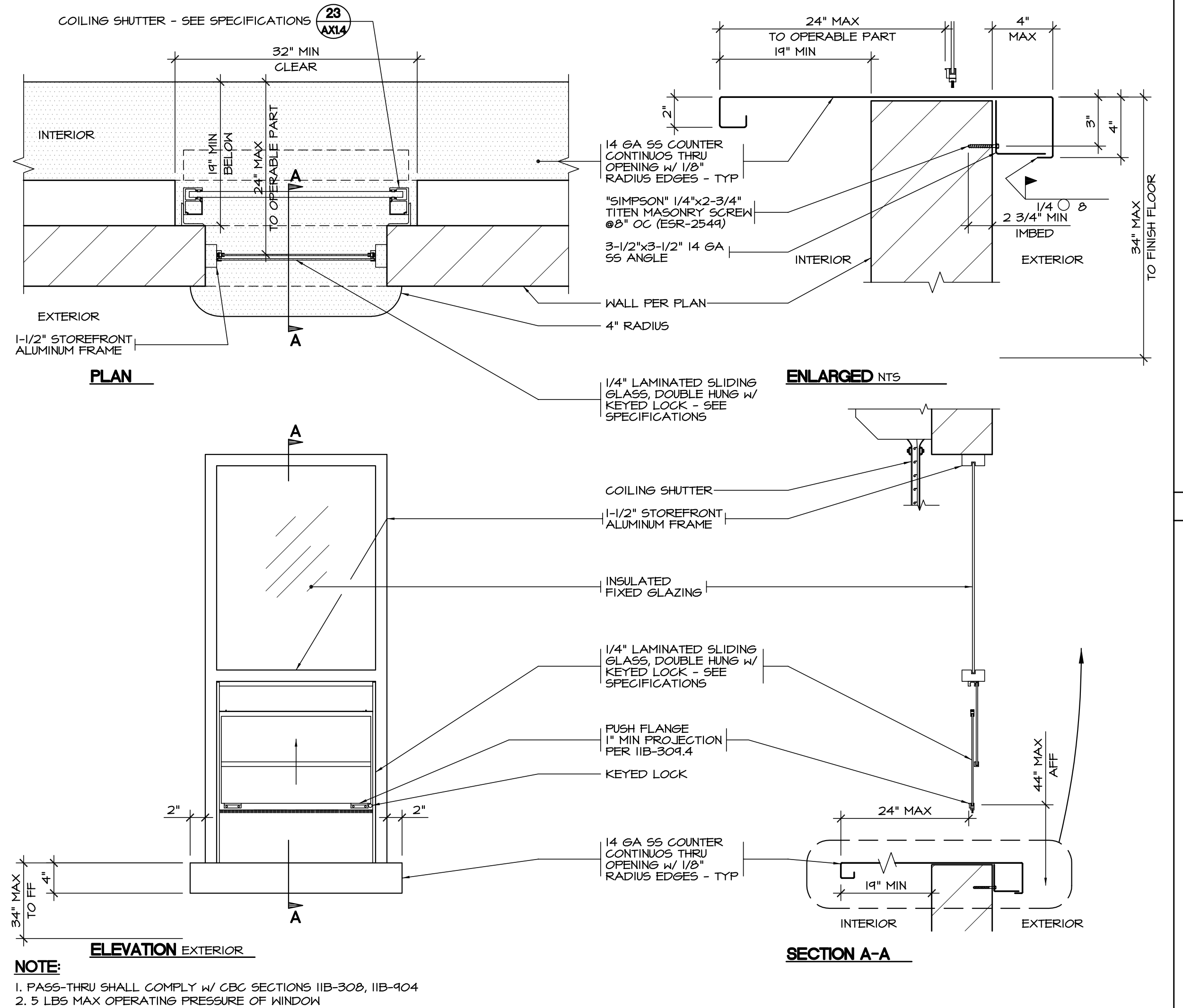
TYPICAL THRESHOLD SCALE: 3/8" = 1'-0" **14**



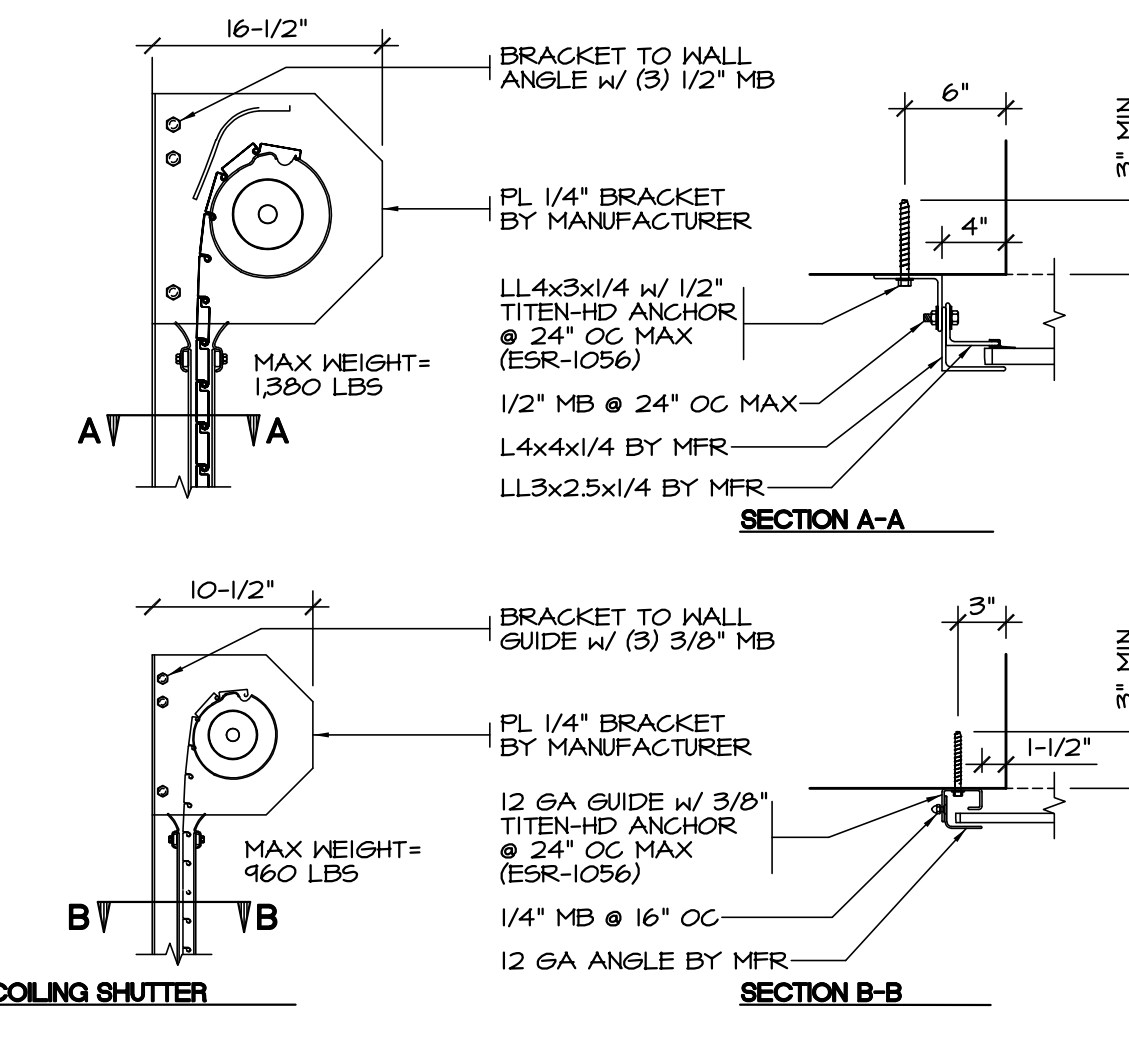
TYPICAL TILE THRESHOLD SCALE: 3/8" = 1'-0" **15**



TUBULAR SKYLIGHT SCALE: NONE **16**



WINDOW DETAIL SCALE: 1" = 1'-0" **22**



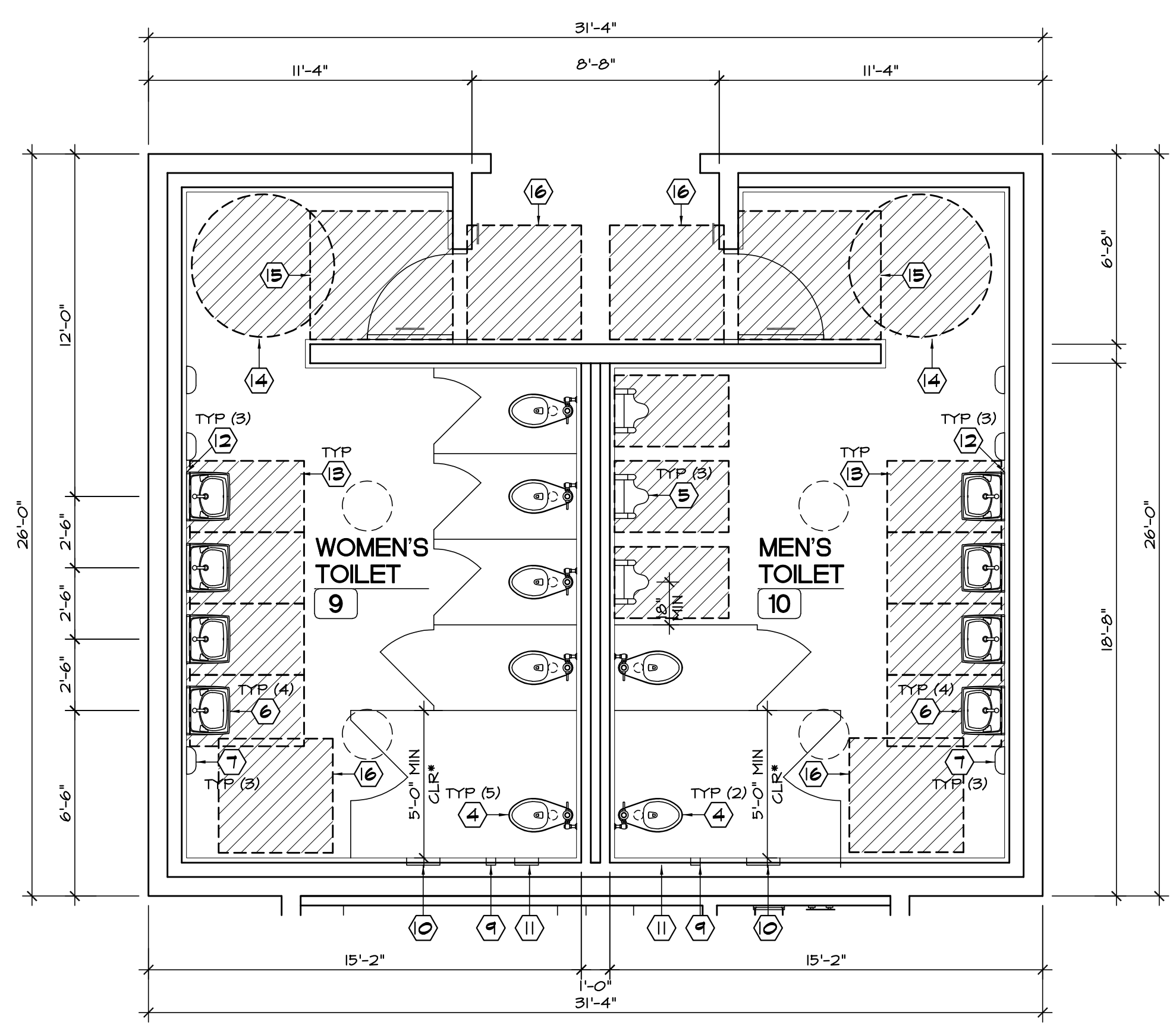
COILING DOOR AND SHUTTER SCALE: NTS **23**

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Project Title
**IMPERIAL VALLEY COLLEGE
 RESTROOM/CONCESSION BUILDING**

Sheet Title
DOOR AND WINDOW DETAILS

	Document Date 03-01-22	Project Number 22-091V
	Date Last Revised	Sheet Number AX1.4



WOMEN'S TOILET / MEN'S TOILET 9 10

AGE RANGE: ADULT SCALE: 1/4" = 1'-0" A

APPROVALS

KEYNOTES:

- 1 42" MIN GRAB BAR
- 2 36" MIN GRAB BAR PROVIDE BACKING (B) (E)
- 3 RECESSED TOILET DISPENSER / WASTE RECEPTACLE
- 4 ACCESSIBLE TOILET
- 5 ACCESSIBLE URINAL
- 6 ACCESSIBLE LAVATORY
- 7 HAND DRYER (4" MAX PROJECTION) - SEE INTERIOR ELEVATIONS
- 8 FLOOR DRAIN, 2% MAX SLOPE TO DRAIN, 1/4" MAX OPENINGS - SEE PLUMBING DRAWINGS
- 9 RECESSED TISSUE DISPENSER
- 10 RECESSED TOILET SEAT COVER DISPENSER
- 11 RECESSED FEMININE NAPKIN DISPOSAL
- 12 MIRROR - SEE INTERIOR ELEVATIONS
- 13 30" x 48" CLEAR FLOOR SPACE
- 14 60" DIAMETER CLEAR FLOOR SPACE
- 15 60" x 54" CLEAR FLOOR SPACE (2% MAX SLOPE IN ALL DIRECTIONS)
- 16 48" x 48" CLEAR FLOOR SPACE (2% MAX SLOPE IN ALL DIRECTIONS)

NOTES:

1. SEE (B) (A) FOR ALL FIXTURE MOUNTING HEIGHTS.
2. FOR WALL TYPES AND FURRING SEE ARCHITECTURAL FLOOR PLANS.
3. DIMENSION WITH * INDICATES CLEAR TO FACE OF FINISH.
4. SEE (G) (A) FOR INTERIOR ELEVATIONS.

ALTERNATE DIMENSIONS:

	ADULT	AGES 4-12	2016 CBC REFERENCE
TOILET OFFSET	17"-18"	15"-18"	5 IB-604.4, 5 IB-604.2
TOILET SEAT HEIGHT	17"-18"	15"-17"	5 IB-604.4, 5 IB-604.4
TOP OF GRAB BAR GRIPPING SURFACE	39"-36"	25"-27"	5 IB-604.1, 5 IB-604.2
TP DISPENSER OUTLET (SEE TOILET OR URINAL)	18" MIN	17"-18"	5 IB-604.1, 5 IB-604.1
FURTHEST TP DISPENSER IN FRONT OF HC	7'-4" TO CENTERLINE	7'-4" TO CENTERLINE	5 IB-604.1
LAVASINK RIM HT	34" MAX	31" MAX	5 IB-606.2, 5 IB-606.3
LAVASINK KNEE CLEARANCE	27" MIN (24" AT LAVATORY)	24" MIN	5 IB-606.2, F IB-306.3
URINAL HEIGHT	17" MAX	17" MAX	5 IB-605.2
URINAL PROJECTION	15-1/2" MIN	15-1/2" MIN	5 IB-605.2
URINAL FLUSH CONTROL HEIGHT	44" MAX	44" MAX	5 IB-605.4
HIGH OF SPOUT HT	30"-43"	30"-43"	5 IB-602.1
LOC OF APPROACH, SPOUT HT AND LOC OF APPROACH FROM FRONT EDGE OF UNIT INCLUDING DISPENSERS	FRONT APPROACH: 18" MIN (24" AT LAVATORY) 24" MAX FROM FRONT EDGE OF UNIT	FRONT APPROACH: 18" MIN (24" AT LAVATORY) 24" MAX FROM FRONT EDGE OF UNIT	PARALLEL APPROACH IS PERMITTED IF 18" MIN (24" AT LAVATORY) 24" MAX FROM FRONT EDGE OF UNIT
DF OPERABLE PARTS	6" MAX FROM FRONT EDGE OF UNIT	6" MAX FROM FRONT EDGE OF UNIT	5 IB-602.3
CANTILEVER DF PROJECTION	18"-18"	18"-18"	5 IB-602.3
TOE CLEARANCE AT TOILET PARTITION	4" MIN	12" MIN	5 IB-604.8, 1.4
SHELF HEIGHT	40"-48"	40"-48"	5 IB-604.8, 3
ACCESSORIES	40" MAX	40" MAX	5 IB-603.5
MIRROR HEIGHT (BOTTOM OF EDGE OF REFLECTING SURFACE)	40" MAX ABOVE LAV OR CONTROL 108" MAX HIGH ABOVE LAV NOR COUNTERTOP	40" MAX ABOVE LAV OR CONTROL 108" MAX HIGH ABOVE LAV NOR COUNTERTOP	5 IB-603.3
MIRROR HT (BOTTOM EDGE OF REFLECTING SURFACE) IN DRESSING FITTINGS & LOCKER RNS	20" MAX	20" MAX	5 IB-803.6

NOTE: ALL HEIGHT DIMENSIONS ARE AFF (OF AFS FOR EXTERIOR). ALL HORIZONTAL DIMENSIONS ARE TO FACE OF FINISH

RESTROOMS:

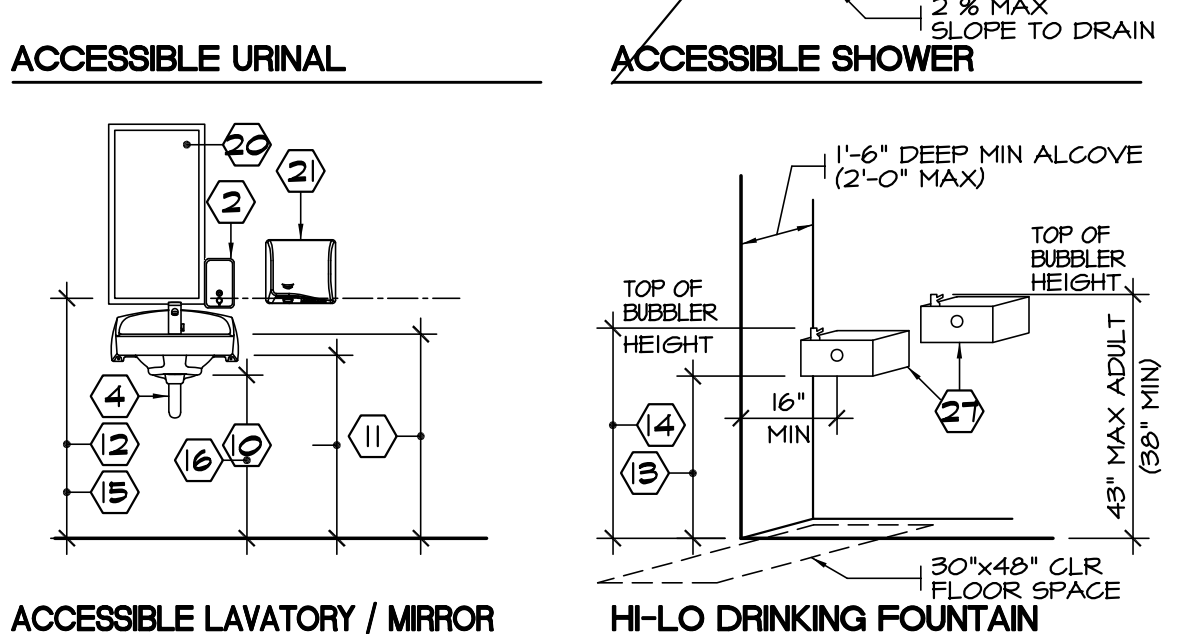
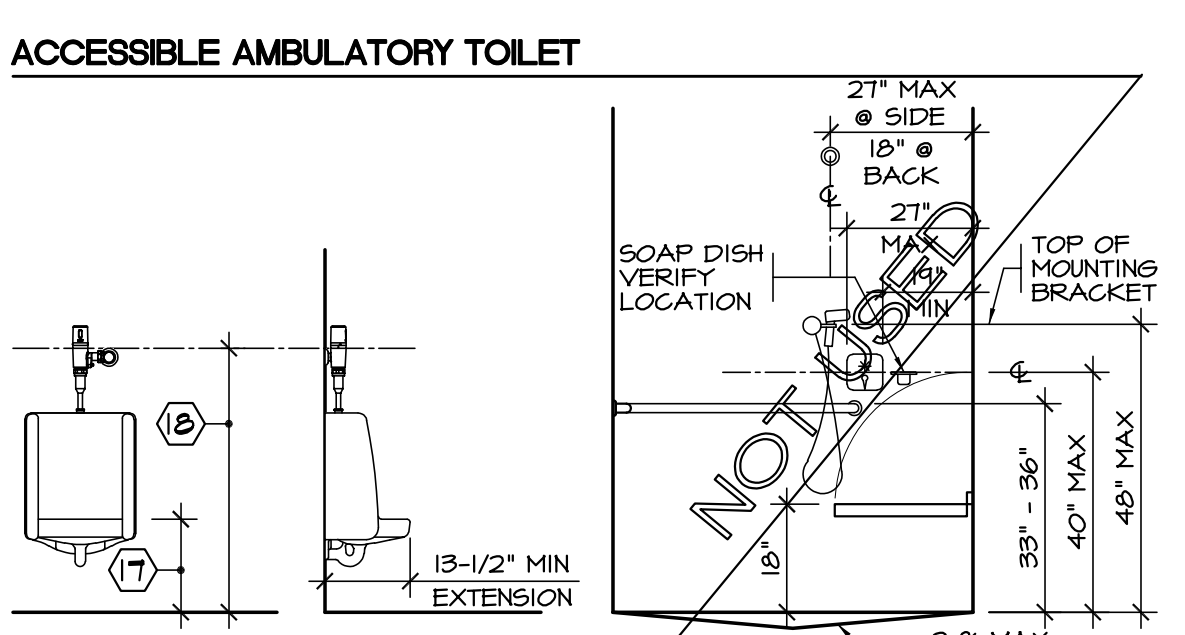
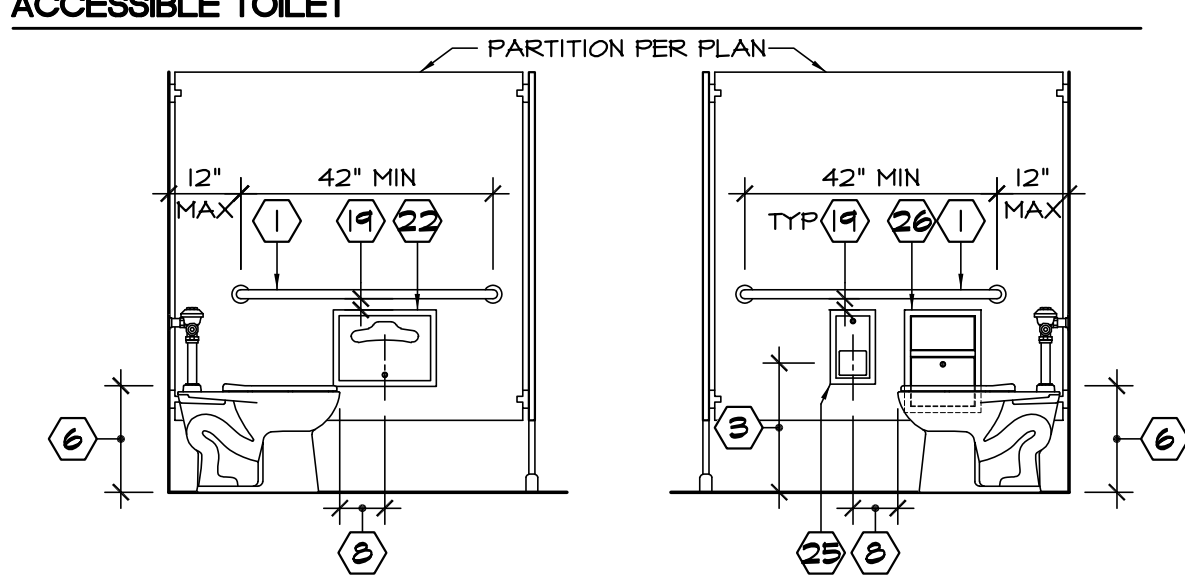
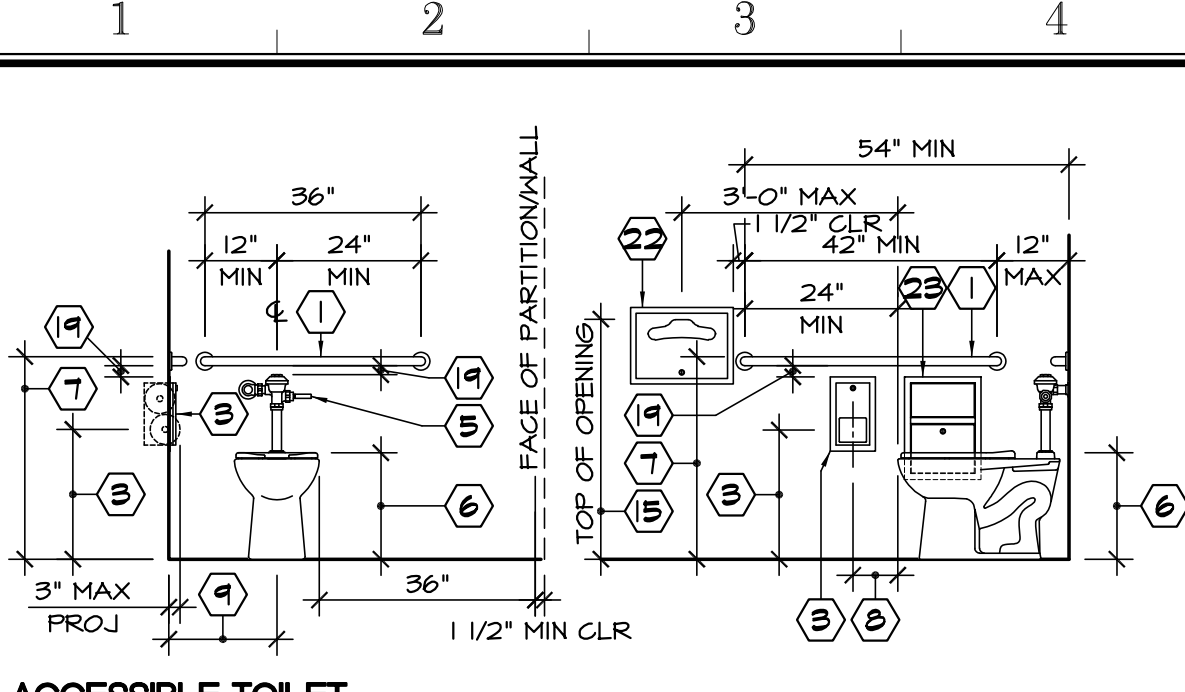
ROOM NUMBER	ROOM NAME	AGES	COMMENTS
9	WOMEN'S TOILET	ADULT	
10	MENS TOILET	ADULT	

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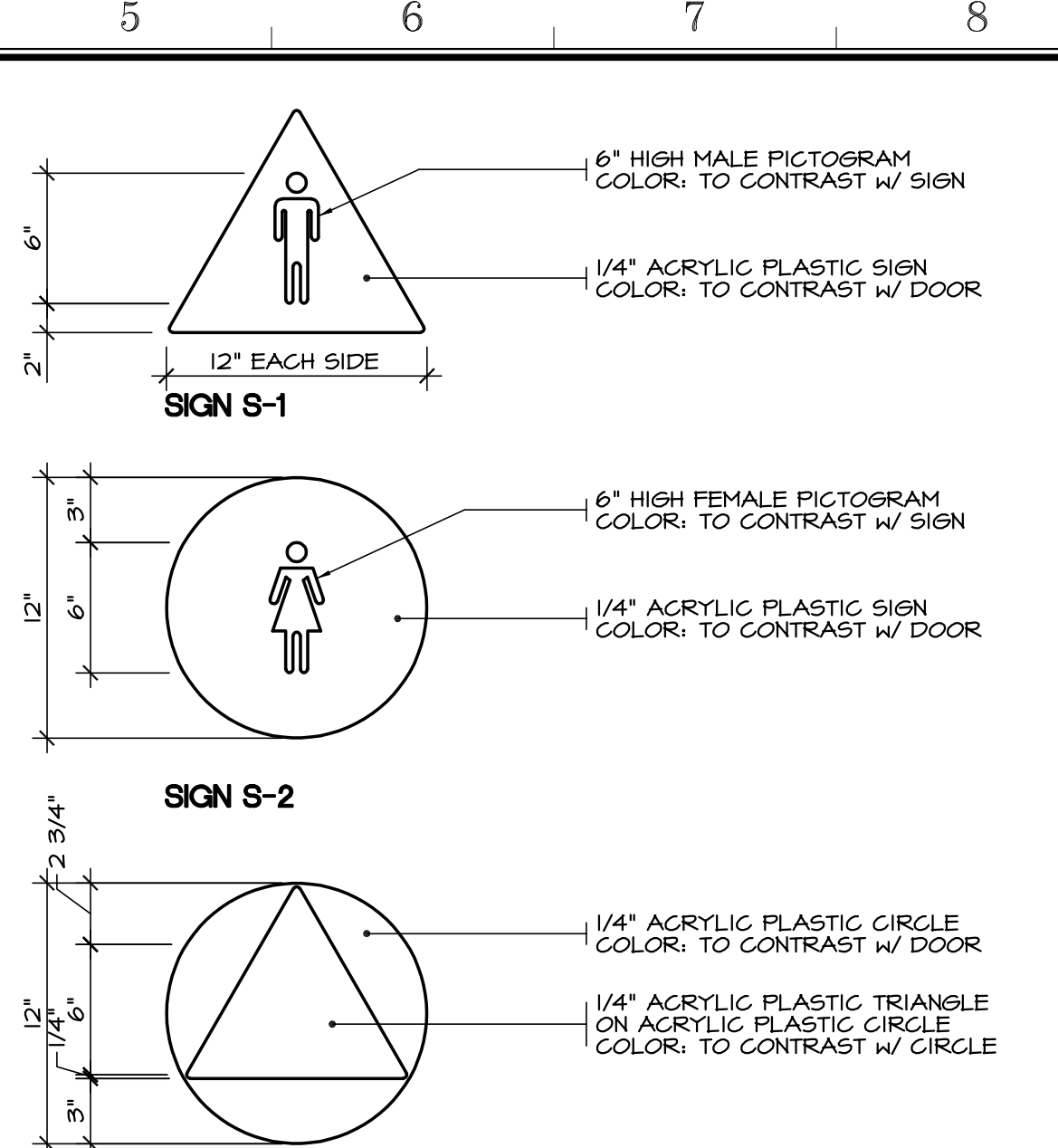
Project Title
**IMPERIAL VALLEY COLLEGE
 RESTROOM/CONCESSION BUILDING**

ENLARGED FLOOR PLANS

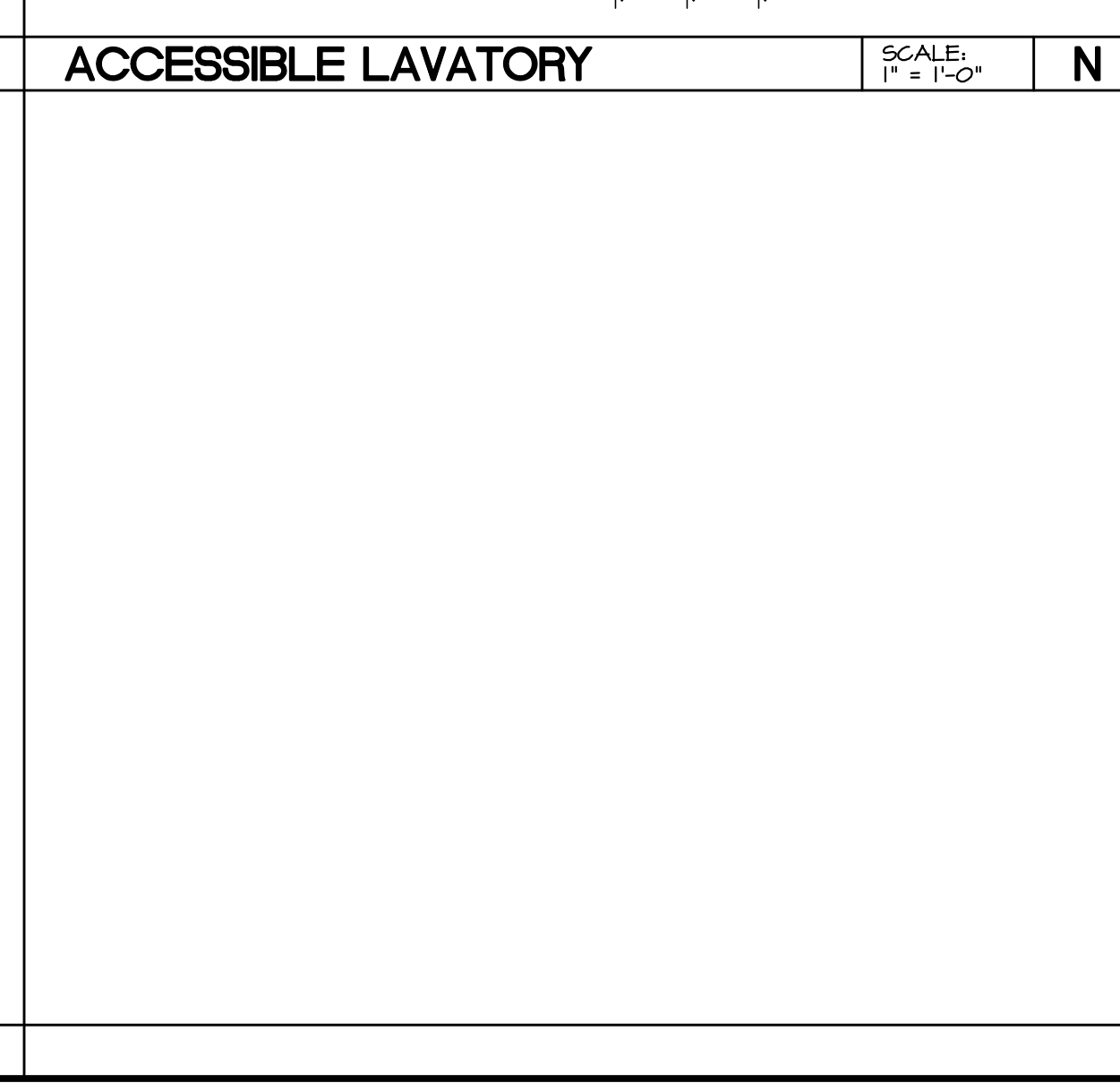
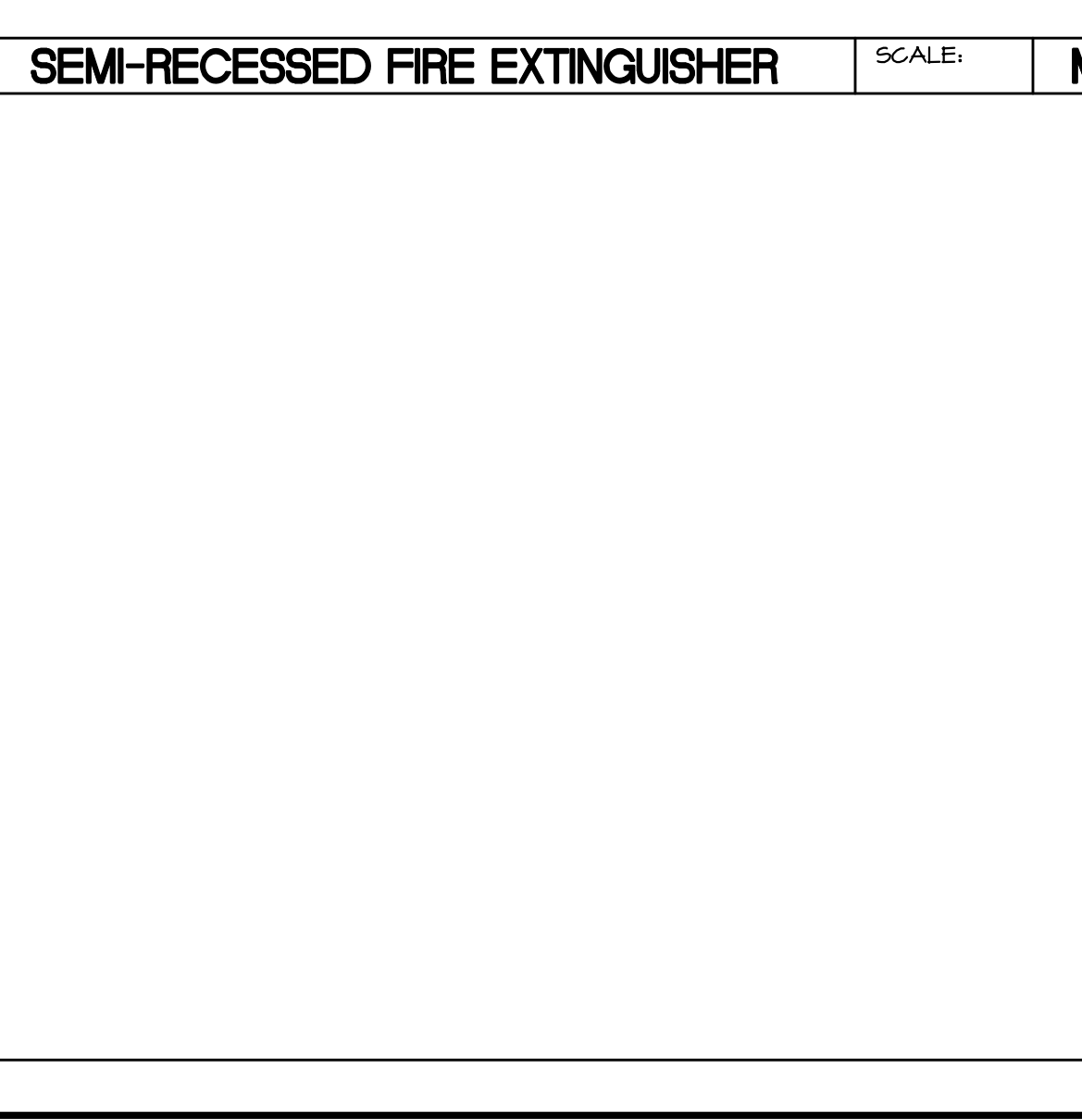
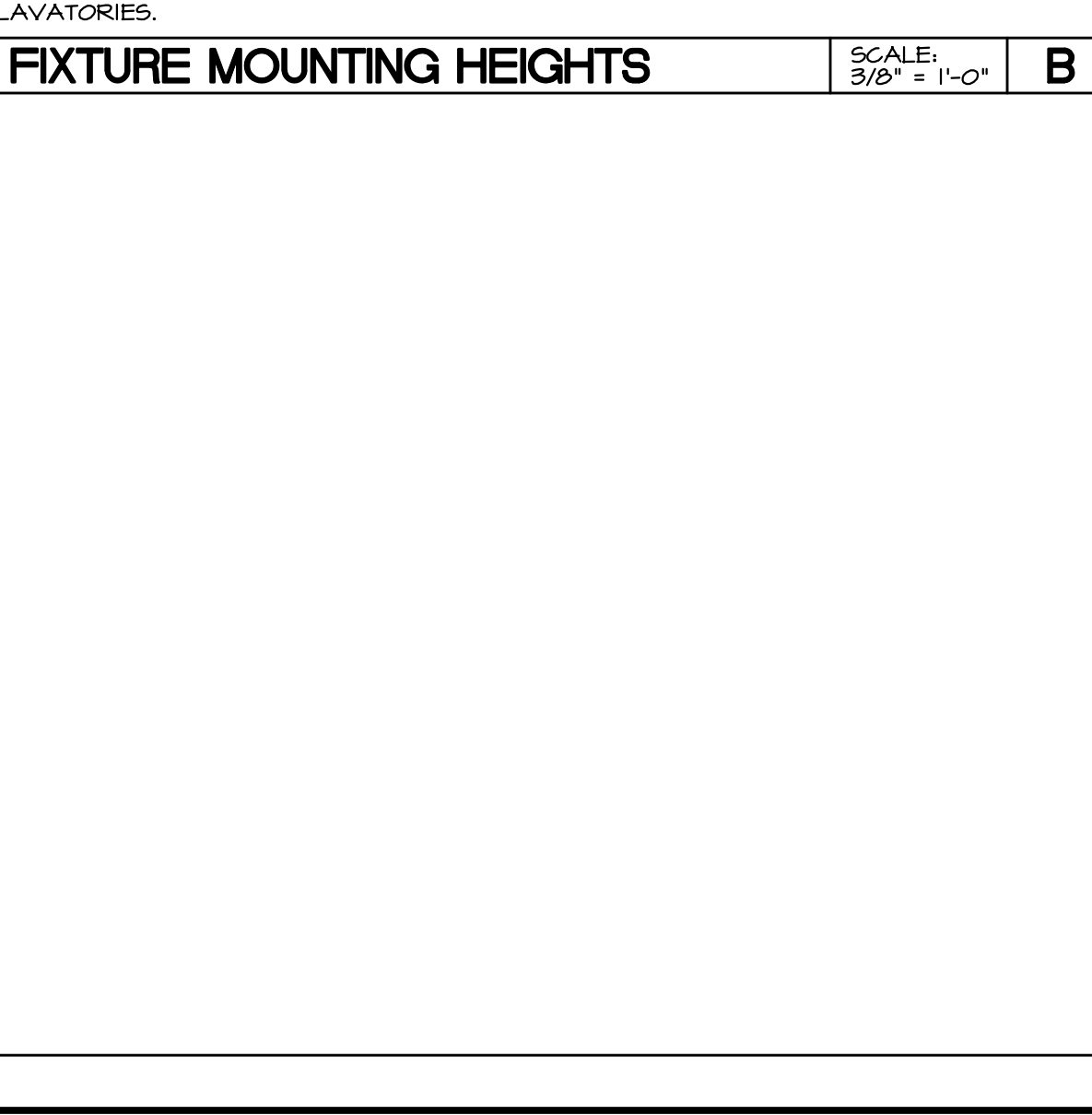
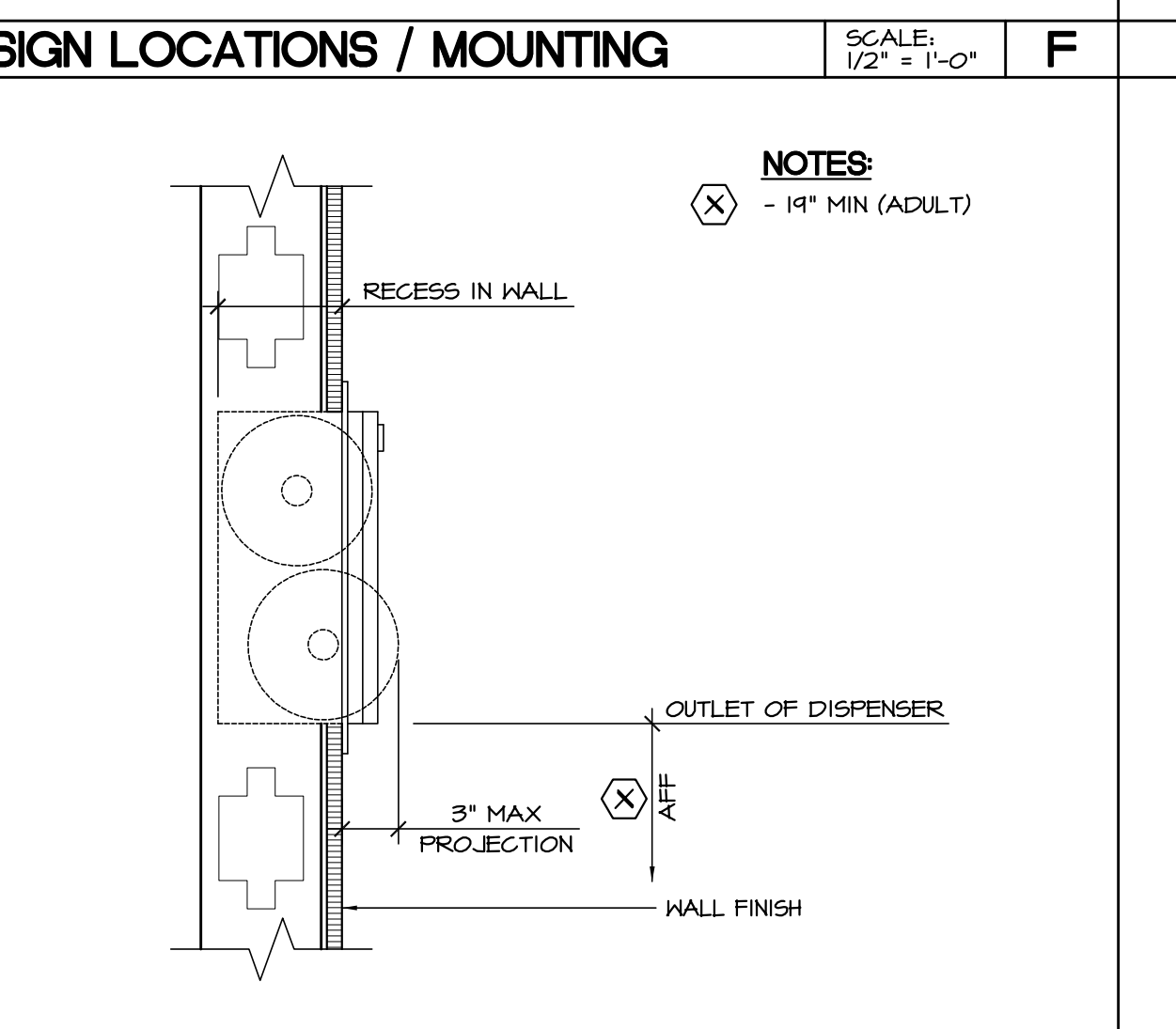
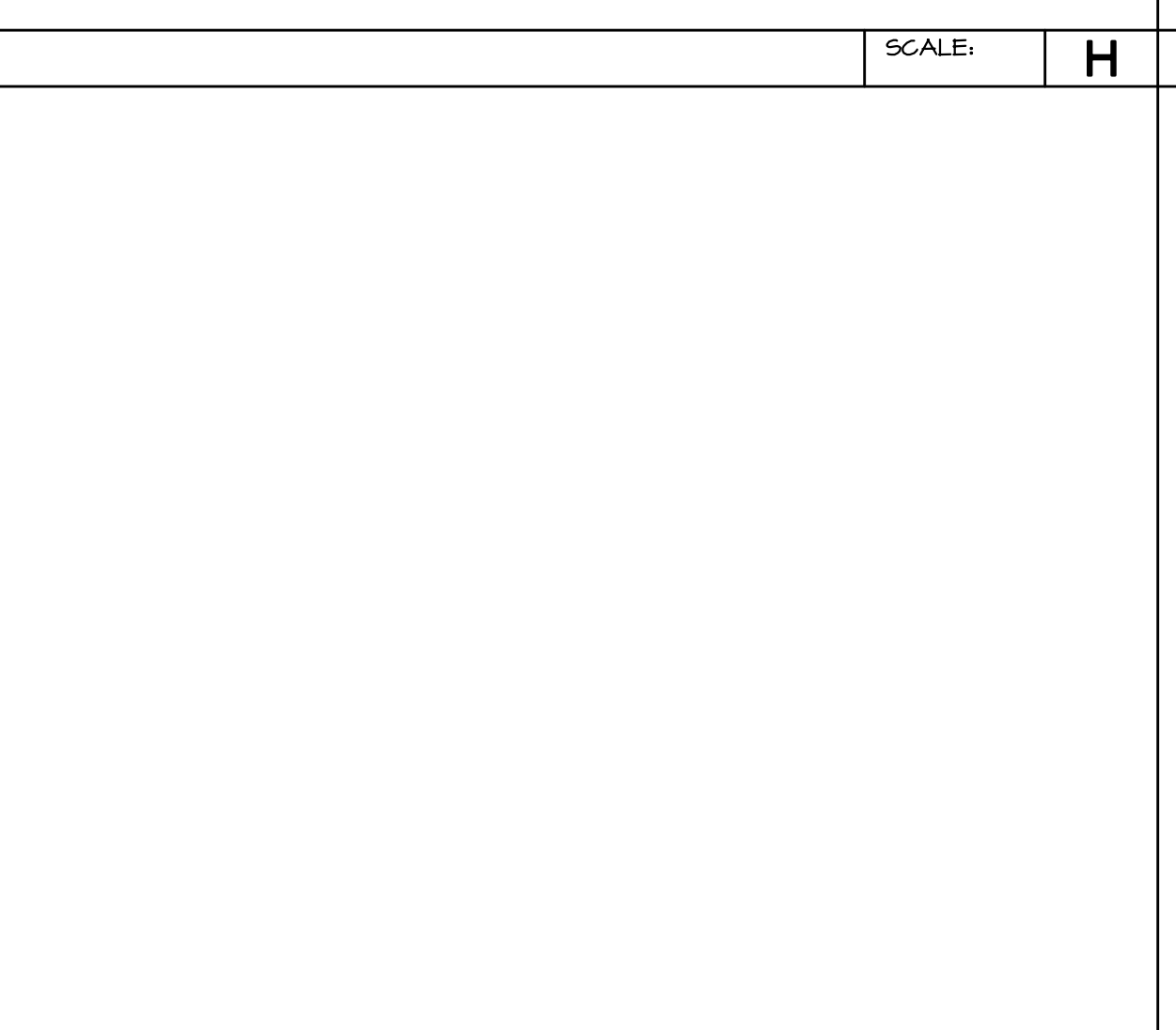
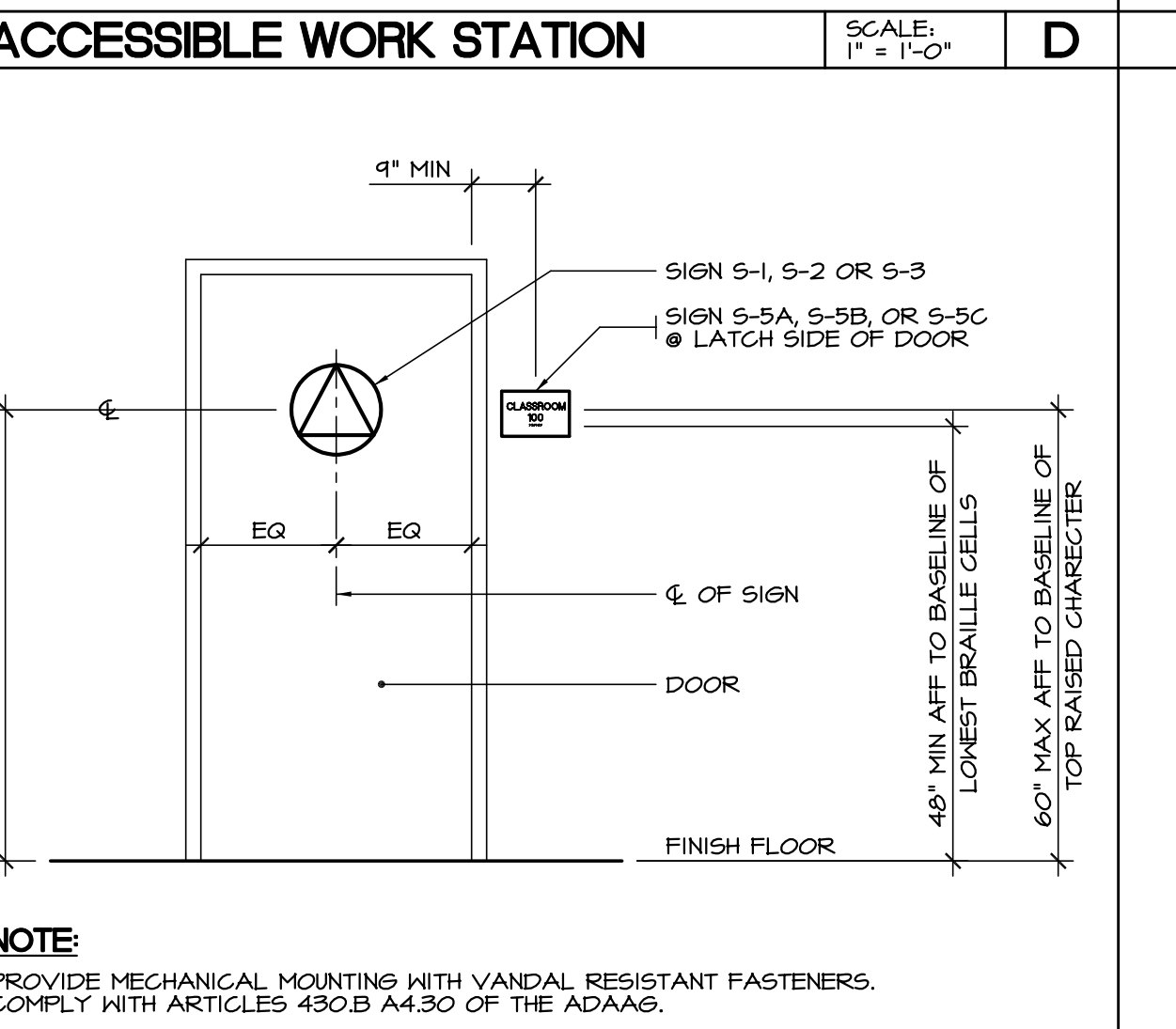
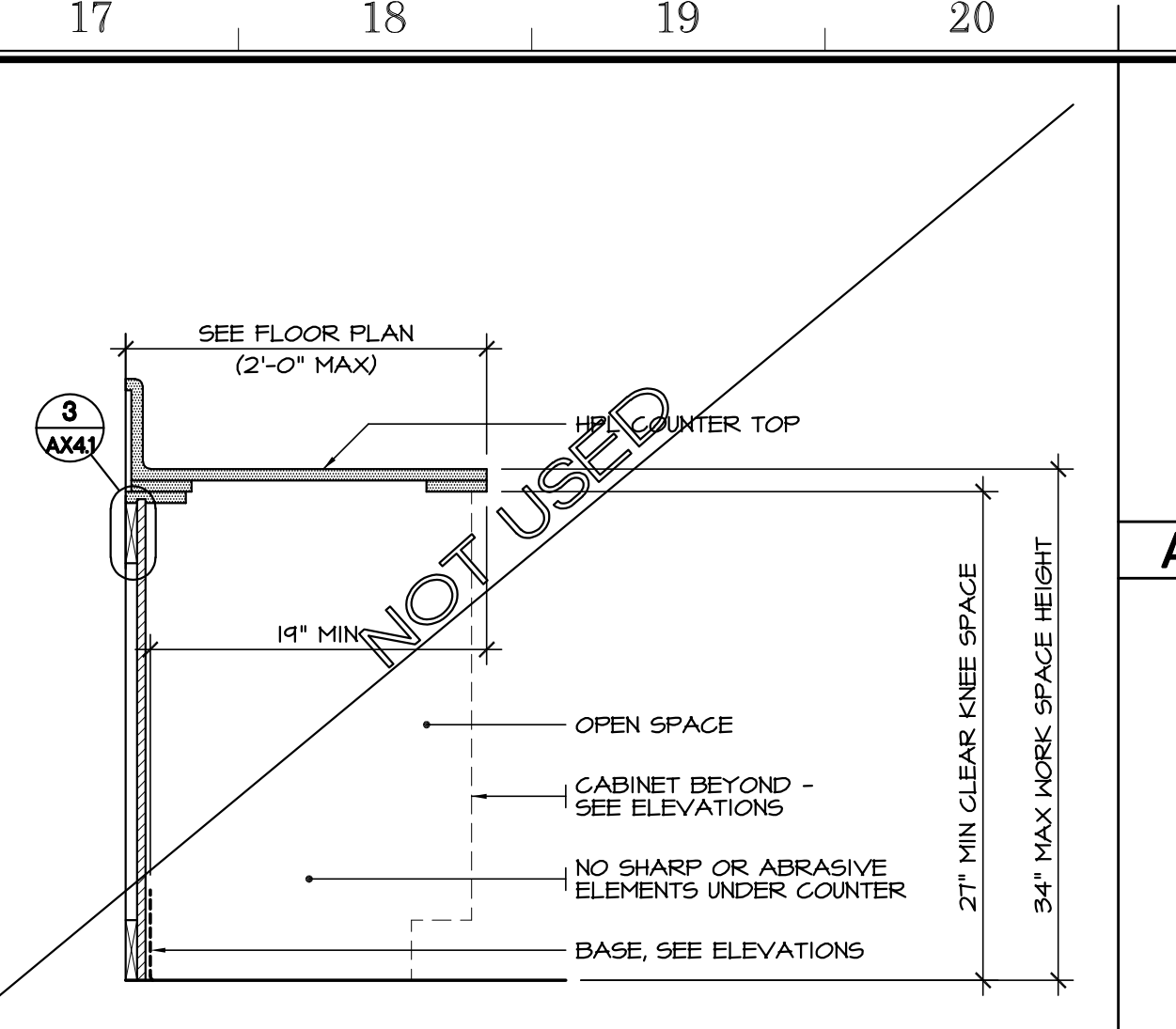
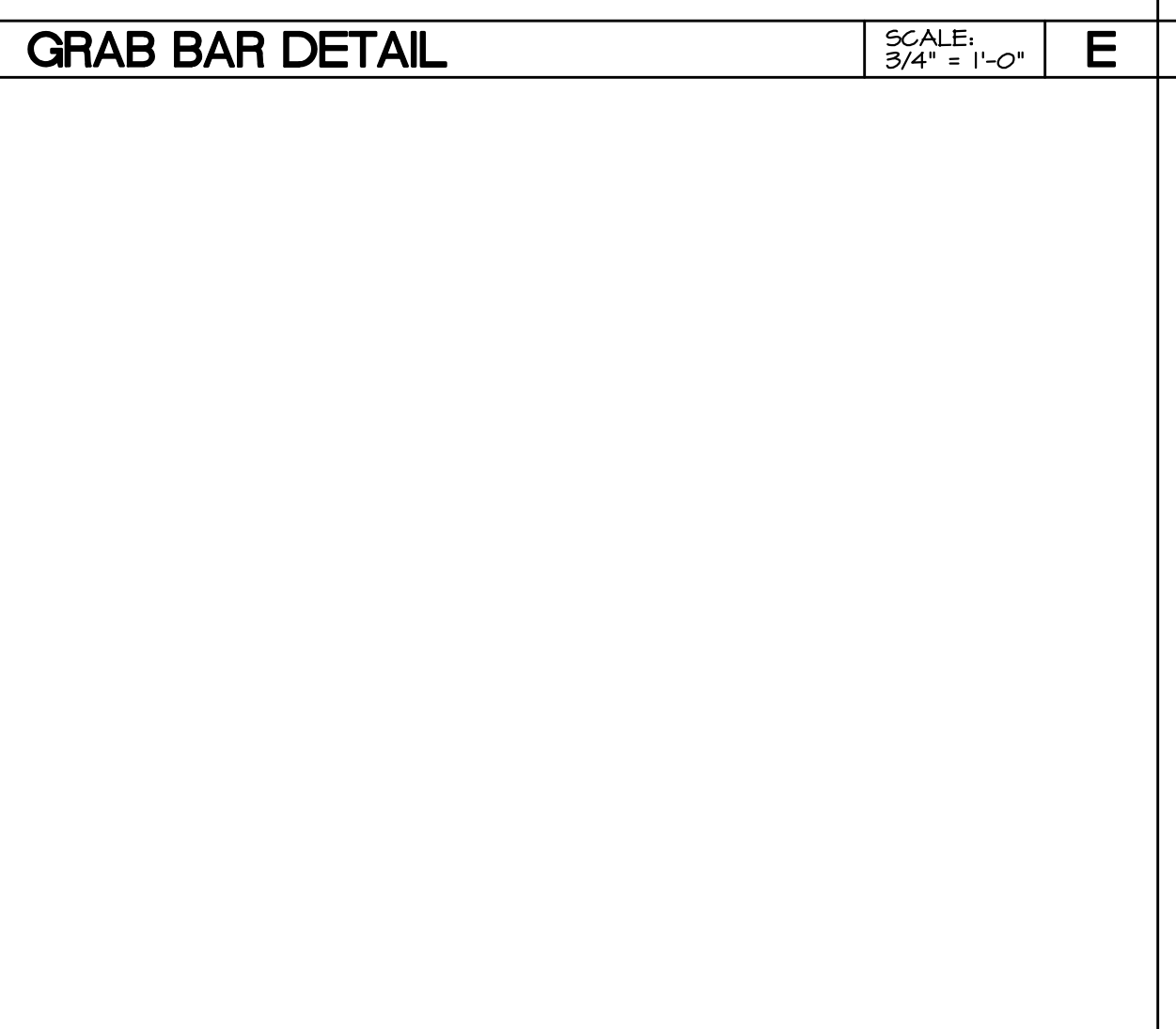
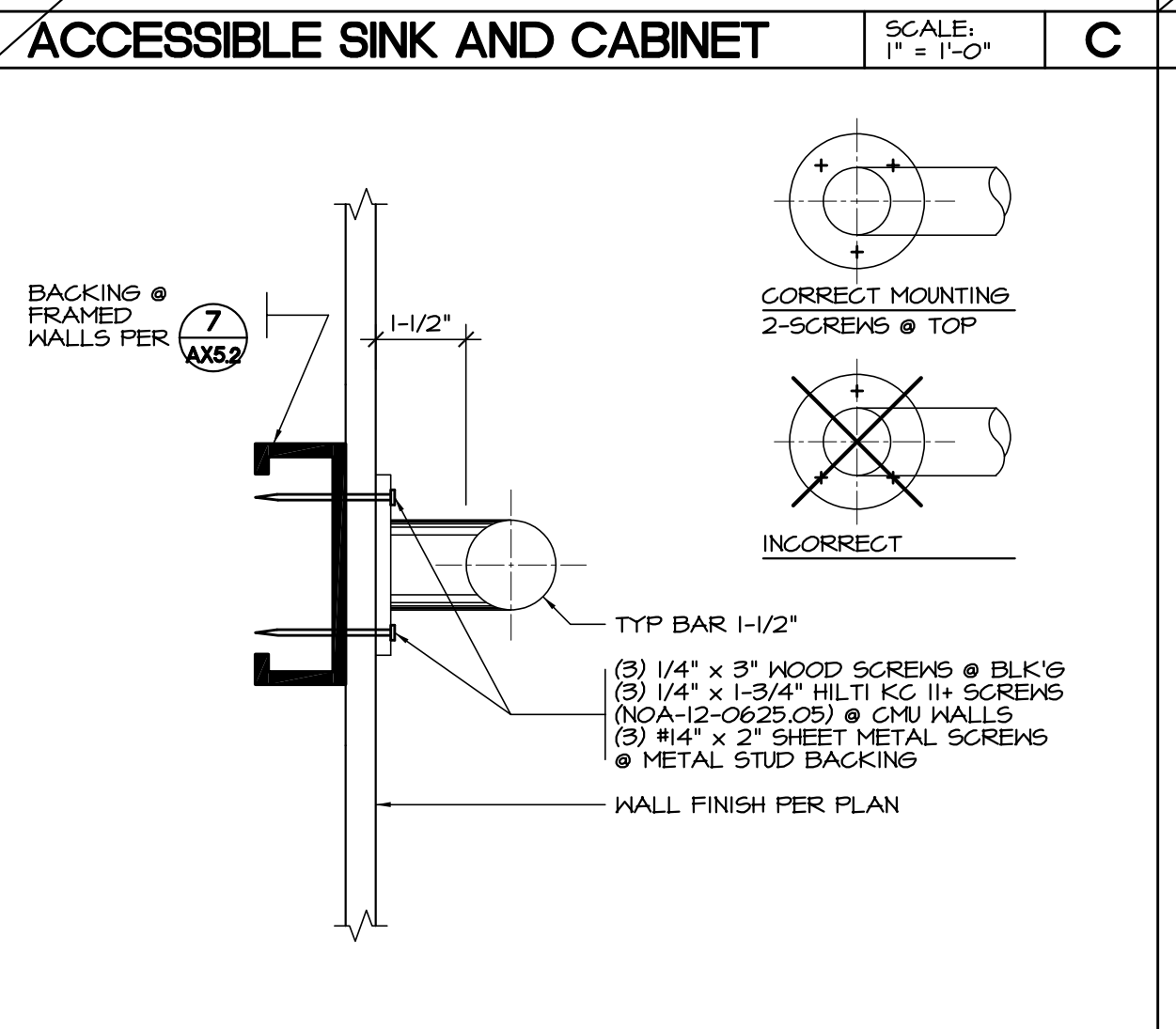
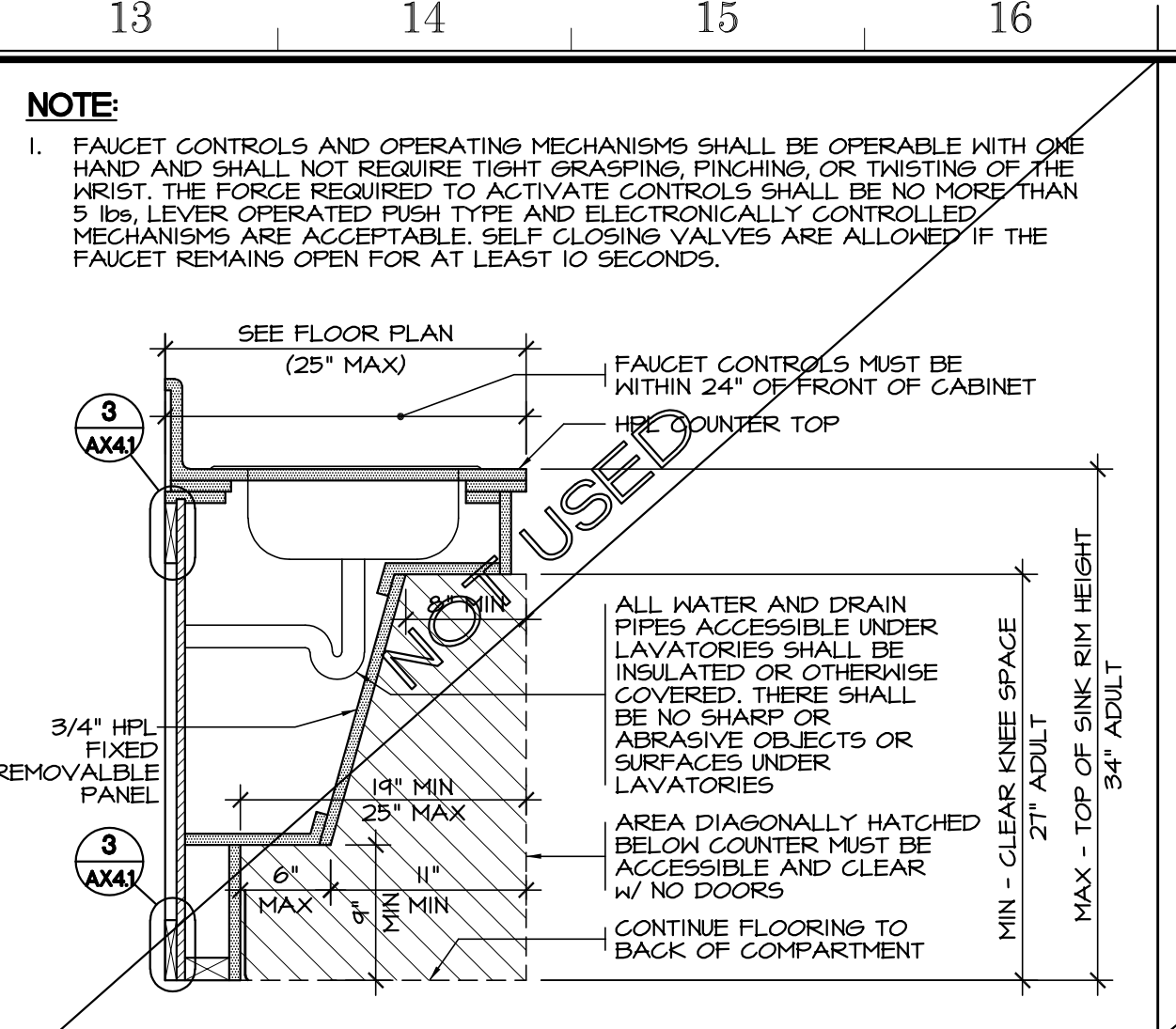
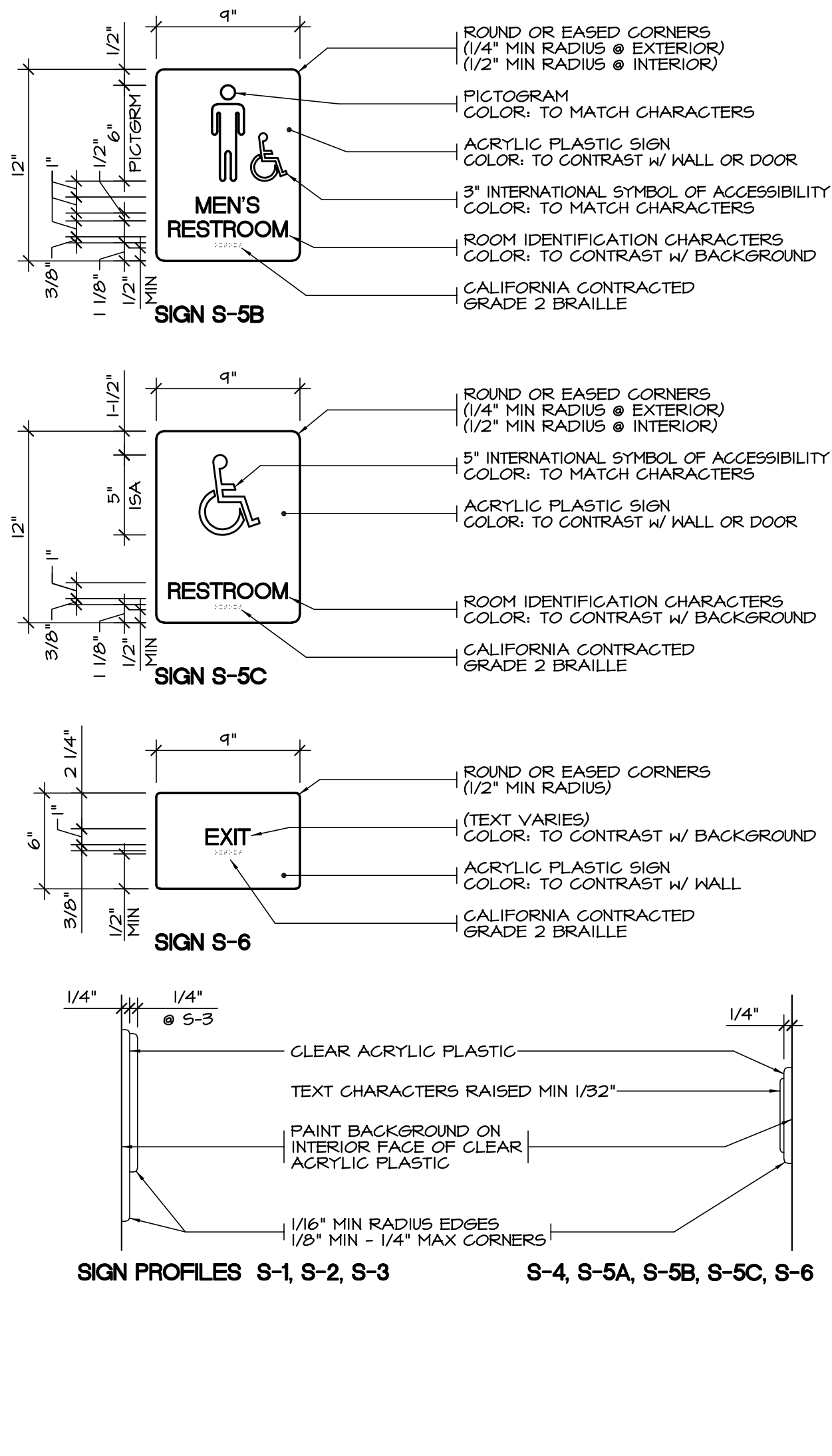
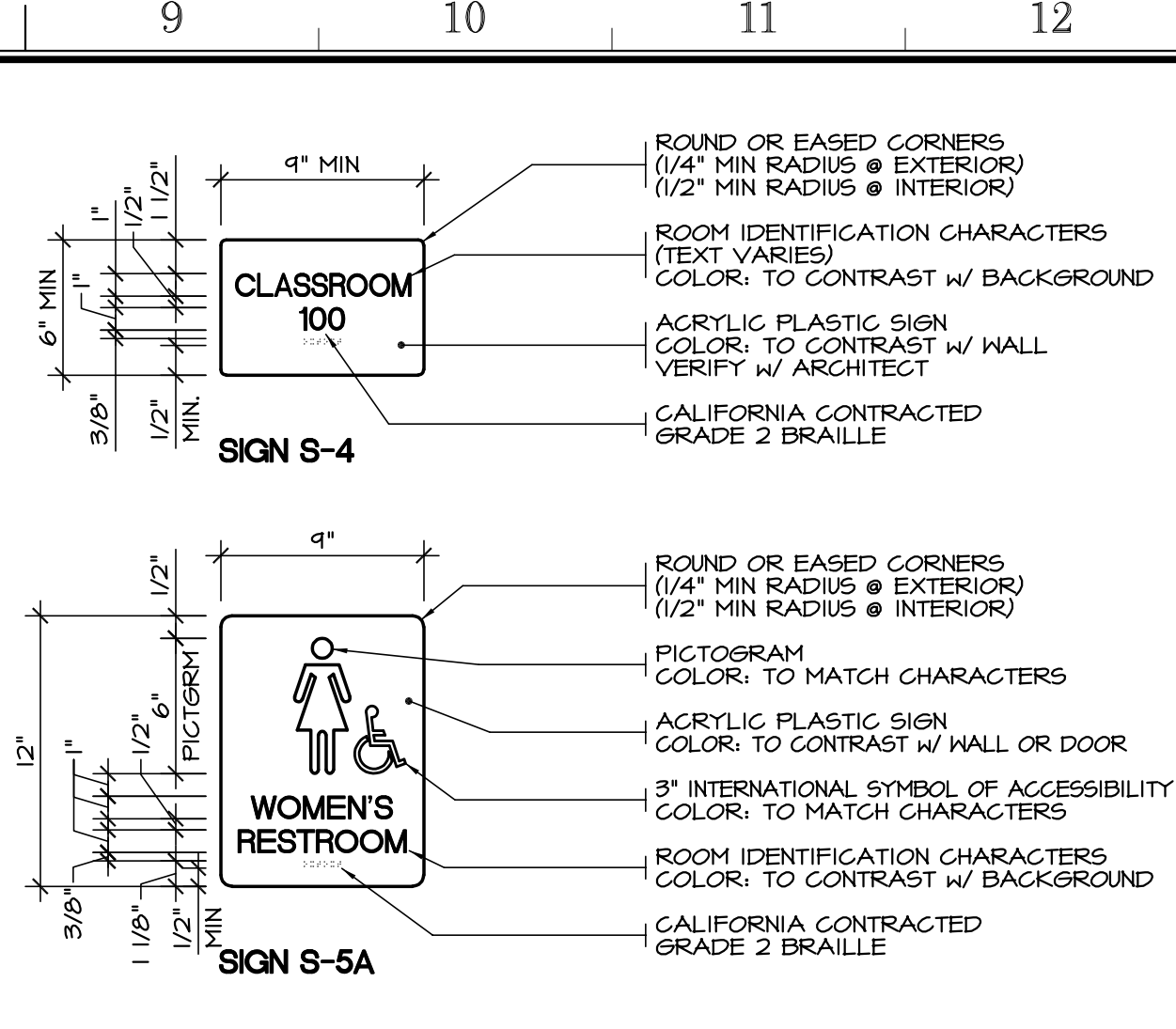
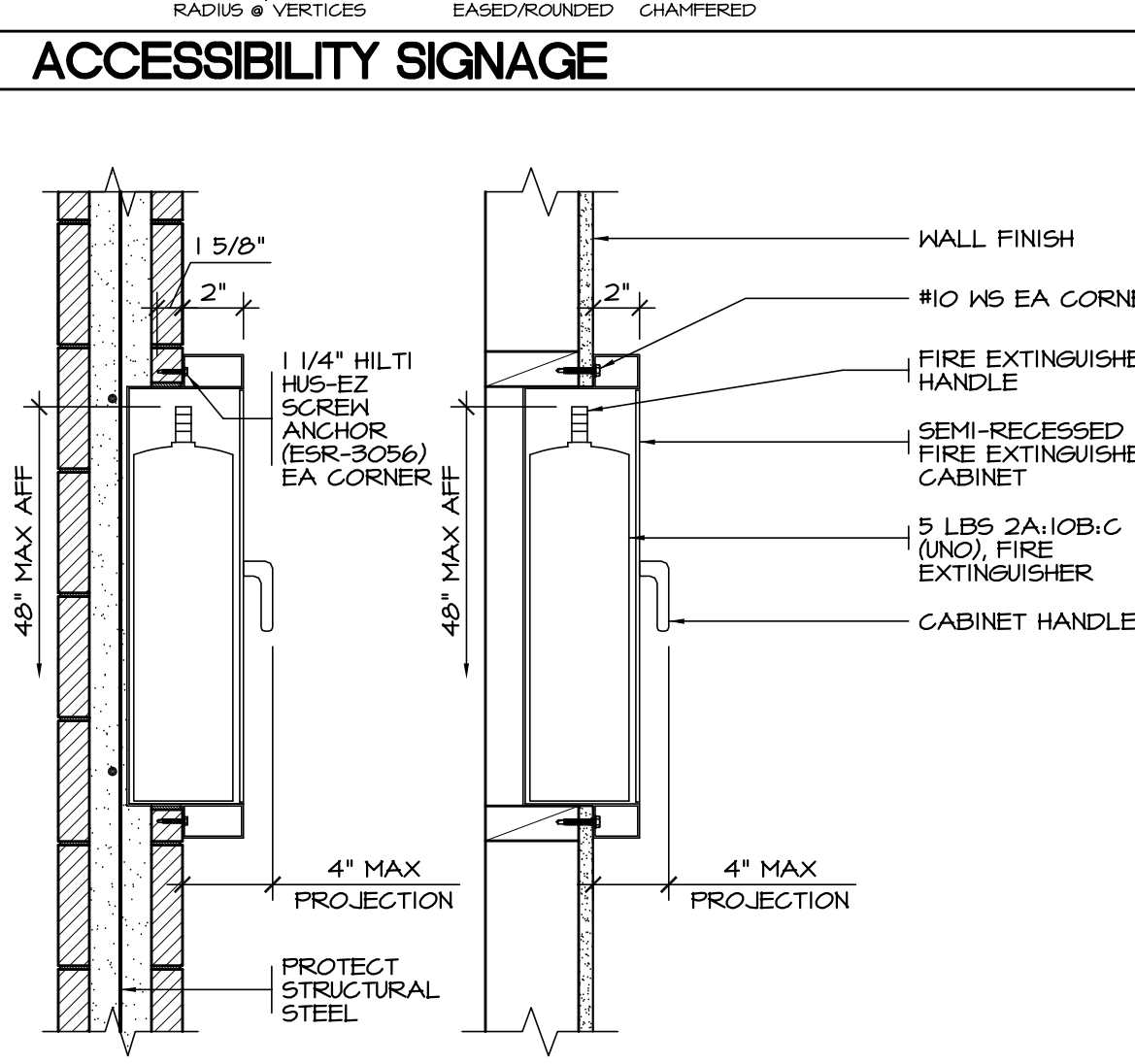
	Document Date 03-01-22	Project Number 22-091V
	Date Last Revised	Sheet Number AX2.1



- KEYNOTES**
- (1) GRAB BAR (E AX31)
 - (2) SOAP DISPENSER (J AX31)
 - (3) RECESSED TISSUE DISPENSER (CONTRACTOR TO PROVIDE RECESS) 3\"/>
 - (4) INSULATE TRAP AND SUPPLY WATER PIPING, NO SHARP OR ABRASIVE EDGES
 - (5) HANDLE ON HIDE SIDE OF TOILET STALL
 - (6) - 15\"/>
 - (7) - 10\"/>
 - (8) - 7\"/>
 - (9) - 15\"/>
 - (10) - 26\"/>
 - (11) - 31\"/>
 - (12) (TO BOTTOM OF REFLECTIVE SURFACE) 39\"/>
 - (13) DRINKING FOUNTAIN KNEE SPACE - 27\"/>
 - (14) - 36\"/>
 - (15) - 31\"/>
 - (16) - 24\"/>
 - (17) - 17\"/>
 - (18) 16\"/>
 - (19) HAND DRYER - 4\"/>
 - (20) TOILET SEAT COVER DISPENSER
 - (21) SEMI-RECESSED FEMININE NAPKIN DISPOSAL - SAME HEIGHT AS TOILET SEAT, 3\"/>
 - (22) RECESSED TOILET DISPENSER / WASTE RECEPTACLE
 - (23) TISSUE DISPENSER - SURFACE MOUNTED
 - (24) FEMININE NAPKIN DISPOSAL - SURFACE MOUNTED
 - (25) HI-LO DRINKING FOUNTAIN NOTES:
 1. CONTROLS TO BE LOCATED WITHIN 6\"/>



- NOTES:**
- CHARACTER TYPE: CHARACTERS ON TACTILE SIGNS SHALL BE RAISED 1/32 INCH (0.764 MM) MINIMUM AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY CONTRACTED (GRADE 2) BRAILLE (SEE NOTE 5 BELOW). (CBC IIB-103.2)
 - CHARACTER SIZE: RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8 INCH (5.9 MM) AND A MAXIMUM OF 2 INCHES (51 MM) HIGH. (CBC IIB-103.2.5)
 - FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND MUST BE 70% MINIMUM AND HAVE A NON-GLARE FINISH. (CBC IIB-103.3.1)
 - PROPORTIONS: CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER 'O' IS 60% MIN AND 100% MAX OF THE HEIGHT OF THE UPPERCASE LETTER 'I'. (CBC IIB-103.2.4) STROKE THICKNESS OF THE UPPERCASE LETTER 'I' SHALL BE 15% MAX OF THE HEIGHT OF THE CHARACTER. (CBC IIB-103.2.6)
 - BRAILLE: BRAILLE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH SECTIONS IIB-103.3 AND IIB-103.4.
- DIMENSIONS AND CAPITALIZATION: BRAILLE DOTS SHALL HAVE ROUNDED SHAPE AND SHALL COMPLY WITH TABLE IIB-103.3.1 THE INDICATION OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, AND ACRONYMS.
- POSITION: BRAILLE SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT IN A HORIZONTAL FORMAT, FLUSH LEFT OR CENTERED. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE FLAGGED BELOW THE ENTIRE TEXT. BRAILLE SHALL BE SEPARATED 3/8 INCH (9.5 MM) MINIMUM AND 1/2 INCH (12.7 MM) MAXIMUM FROM ANY OTHER TACTILE CHARACTERS AND 3/8 INCH (9.5 MM) MINIMUM FROM RAISED BORDERS AND DECORATIVE ELEMENTS.
- | KEYNOTE | MEASUREMENT RANGE | MINIMUM IN INCHES | MINIMUM IN MILLIMETERS |
|---------|--|-------------------|------------------------|
| A | DOT BASE DIAMETER | 0.091 (2.3 mm) | 0.228 (5.8 mm) |
| B | DISTANCE BETWEEN TWO DOTS IN ONE CELL | 0.100 (2.5 mm) | N/A |
| C | DISTANCE BETWEEN CORRESPONDING DOTS IN ADJACENT CELLS | 0.300 (7.6 mm) | N/A |
| D | DOT HEIGHT | 0.025 (0.6 mm) | 0.051 (1.3 mm) |
| E | DISTANCE BETWEEN CORRESPONDING DOTS FROM ONE CELL DIRECTLY BELOW | 0.345 (8.8 mm) | 0.400 (10.2 mm) |
- (I) MEASURED CENTER TO CENTER.
- (F) FOR ALL MOUNTING LOCATIONS SEE DETAIL.
- (G) EDGES AND VERTICES ON GEOMETRIC SYMBOLS: EDGES SHALL BE EASED OR ROUNDED AT 1/16 INCH MIN OR CHAMFERED AT 1/8 INCH MAX. VERTICES SHALL BE RADIUSSED BETWEEN 1/8 INCH MIN AND 1/4 INCH MAX (CBC IIB-103.2.6.4) AND SHALL COMPLY WITH CBC FIGURE IIB-103.2.6.4.
-



APPROVALS

SCALE: 1/4\"/>

ACCESSIBLE SINK AND CABINET SCALE: 1\"/>

ACCESSIBLE WORK STATION SCALE: 1\"/>

GRAB BAR DETAIL SCALE: 3/4\"/>

SIGN LOCATIONS / MOUNTING SCALE: 1/2\"/>

RECESSED TISSUE DISPENSER SCALE: NTS

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Project Title
**IMPERIAL VALLEY COLLEGE
 RESTROOM/CONCESSION BUILDING**

Sheet Title
ACCESS COMPLIANCE DETAILS

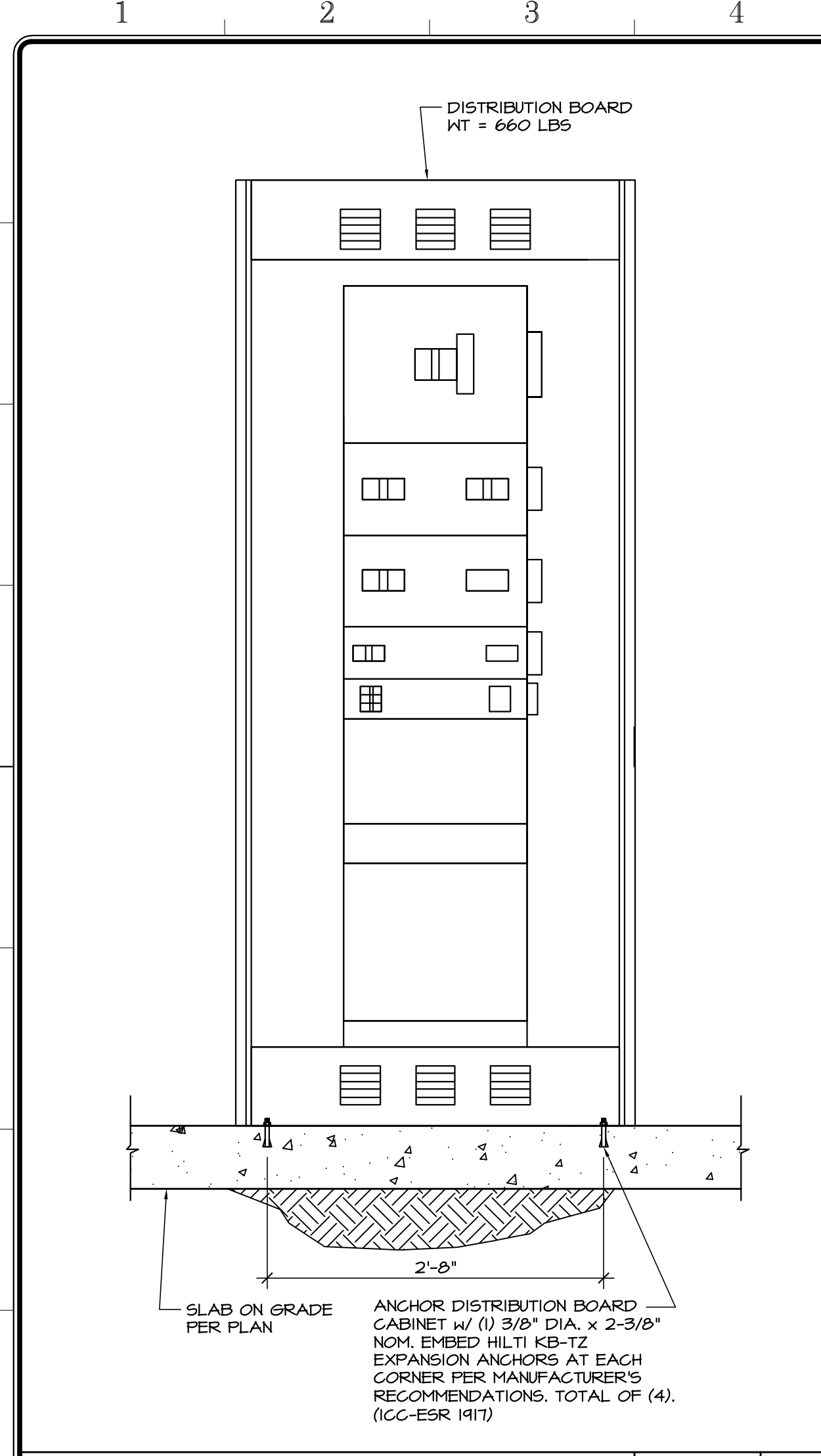
LICENSED ARCHITECT
 JUNIE SANDERS
 764
 STATE OF CALIFORNIA

Document Date
 04-01-22

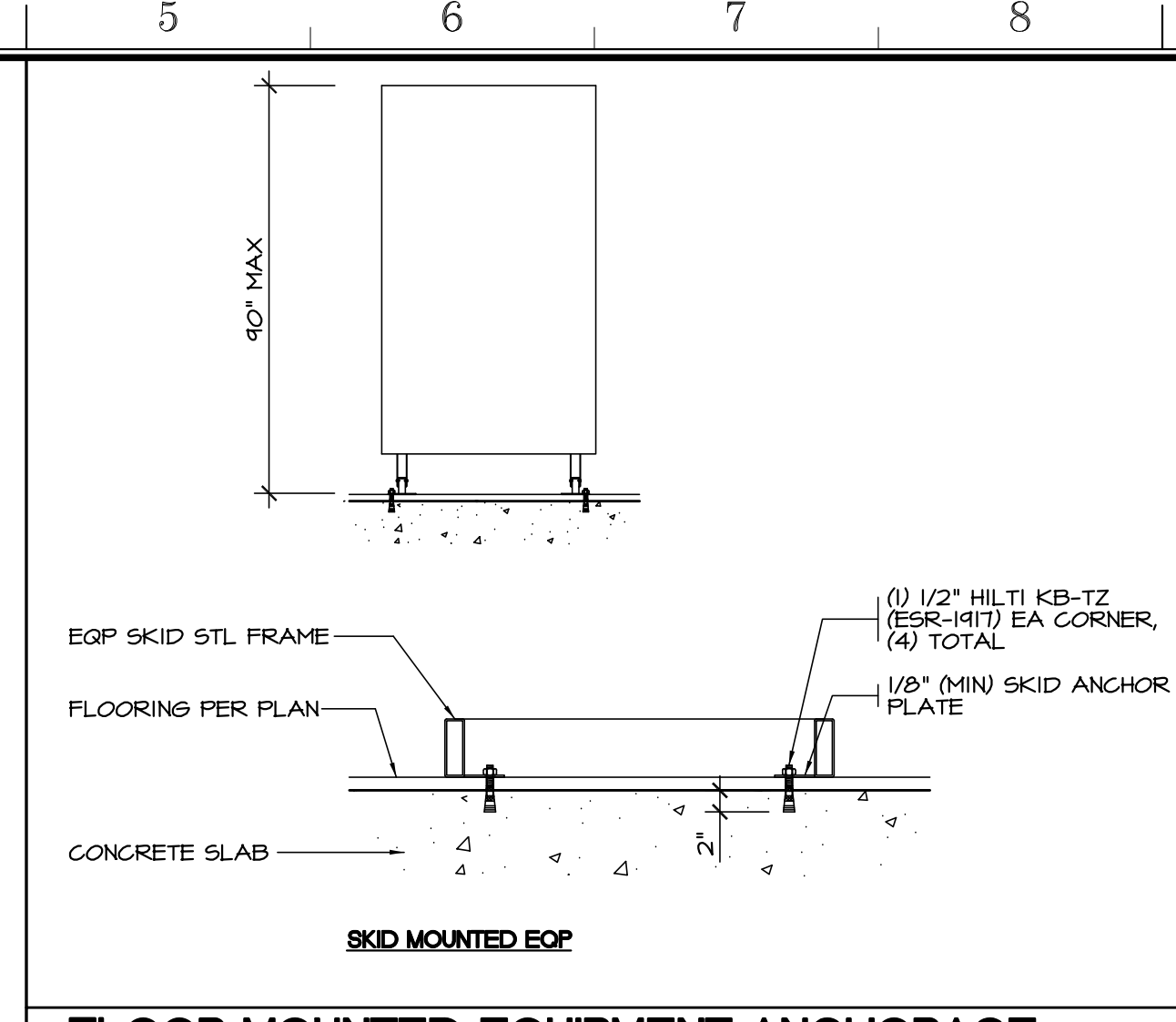
Date Last Revised

Project Number
 22-091V

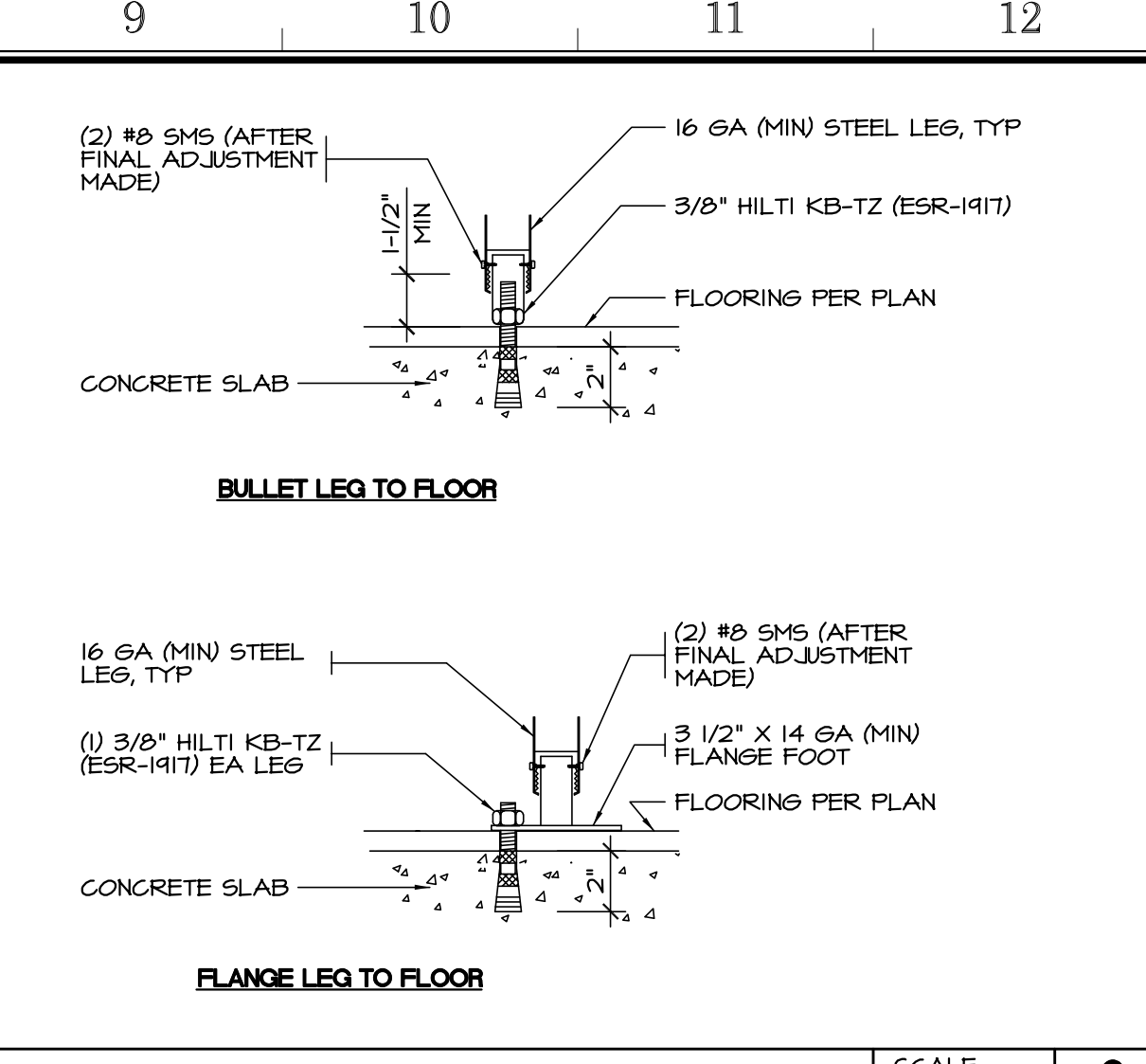
Sheet Number
AX3.1



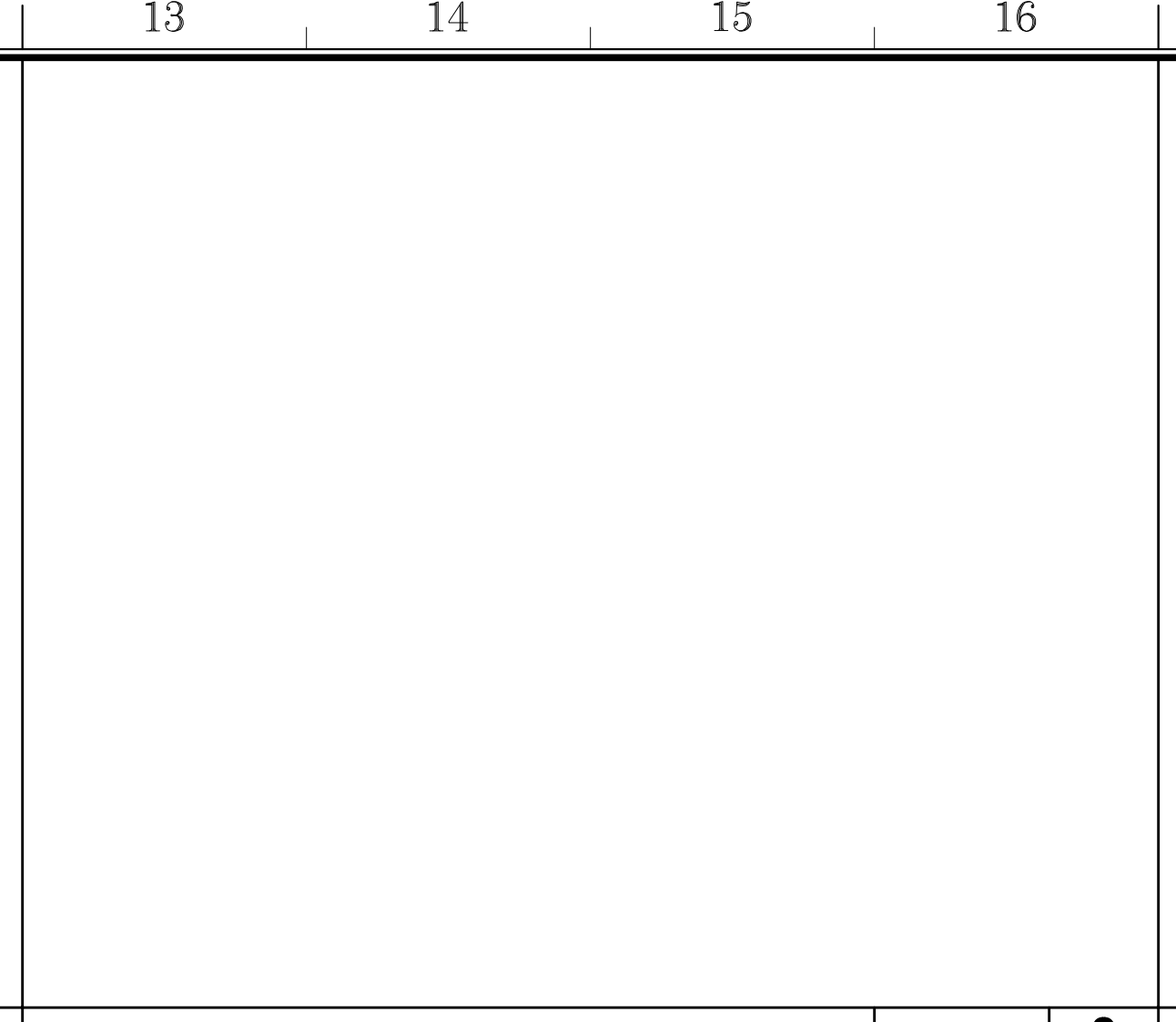
DISTRIBUTION BOARD ANCHORAGE SCALE: NTS 1



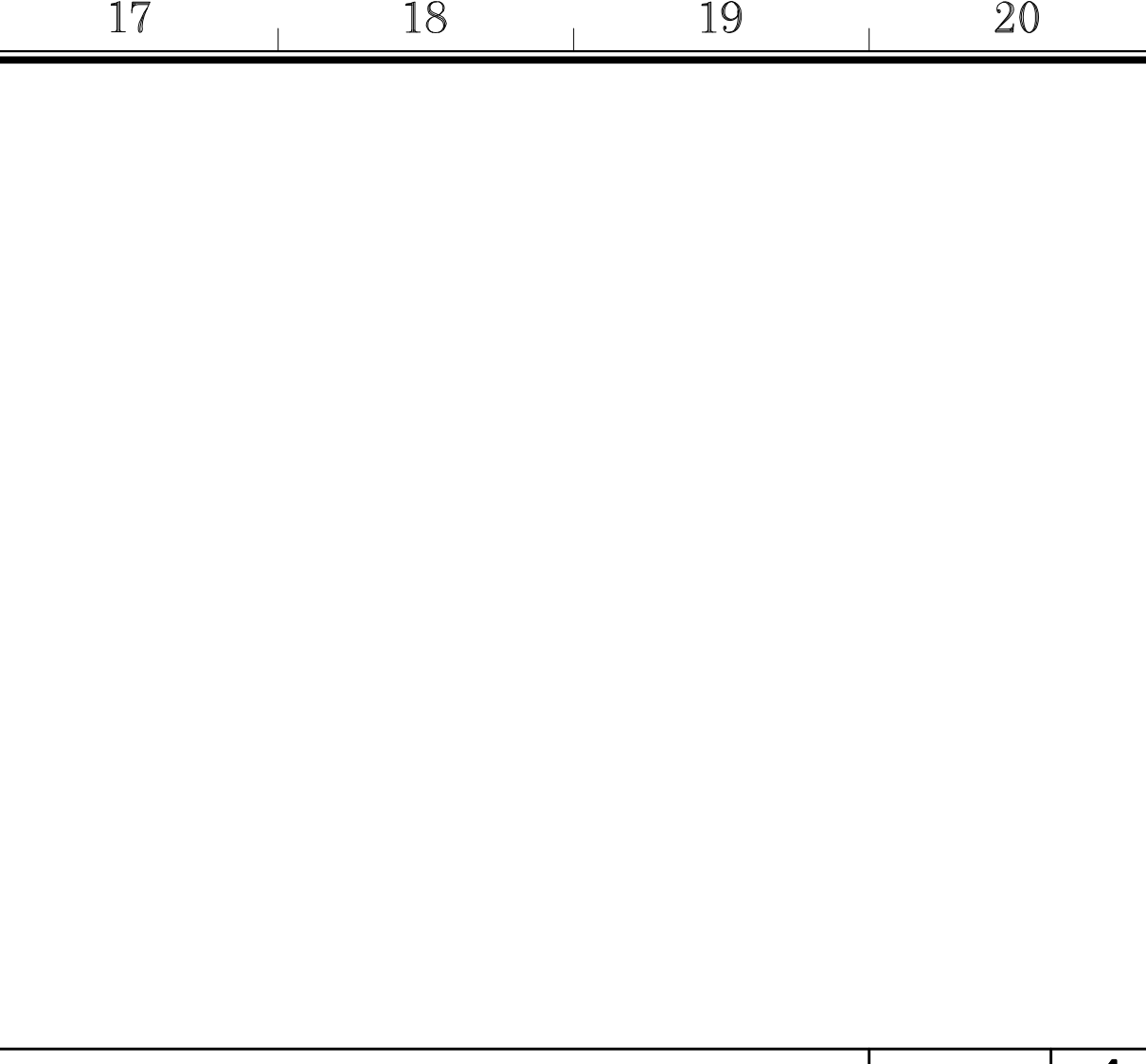
FLOOR MOUNTED EQUIPMENT ANCHORAGE SCALE: NTS 2



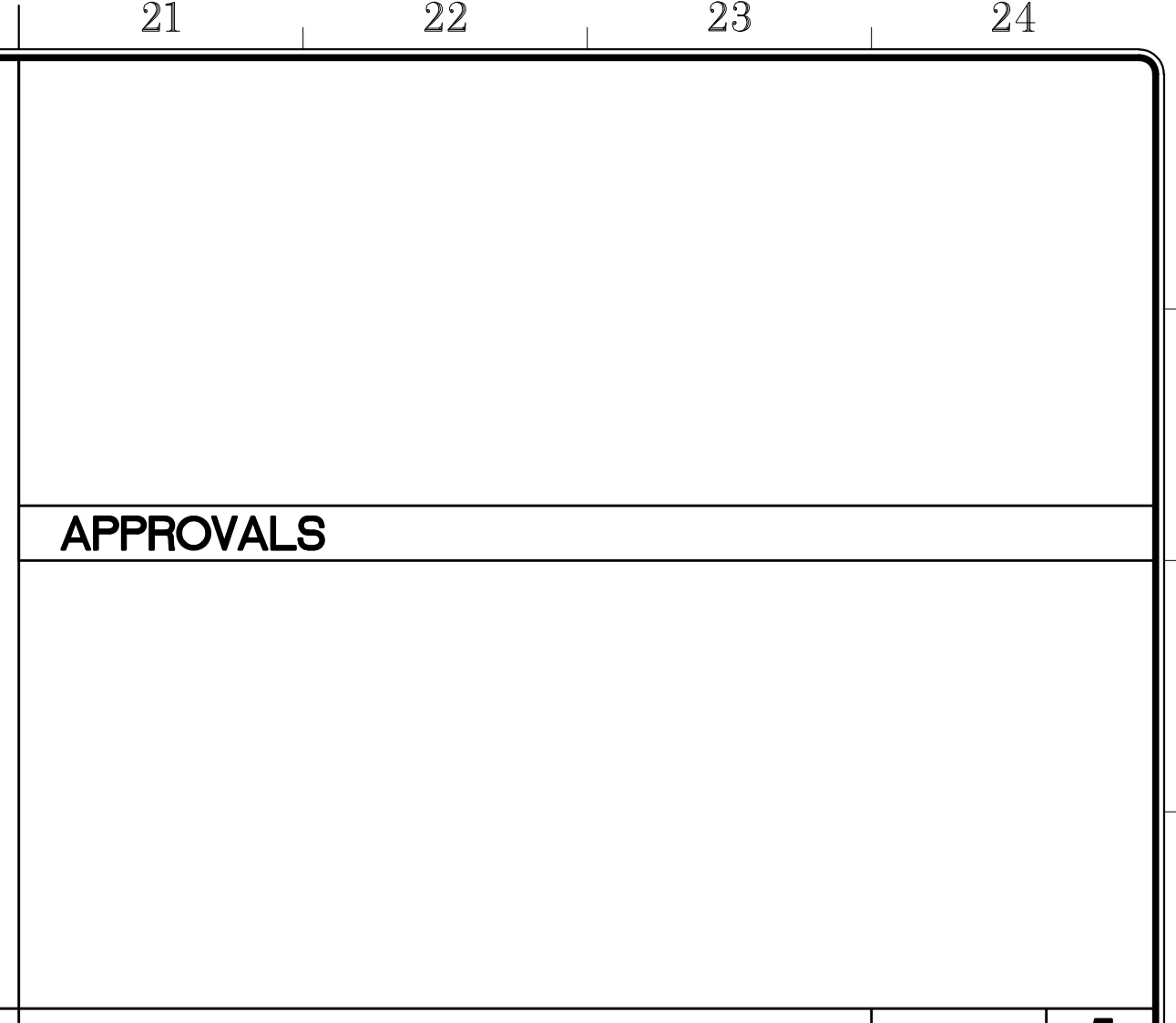
FLOOR MOUNTED EQUIPMENT ANCHORAGE SCALE: NTS 3



FLOOR MOUNTED EQUIPMENT ANCHORAGE SCALE: NTS 4



FLOOR MOUNTED EQUIPMENT ANCHORAGE SCALE: NTS 5



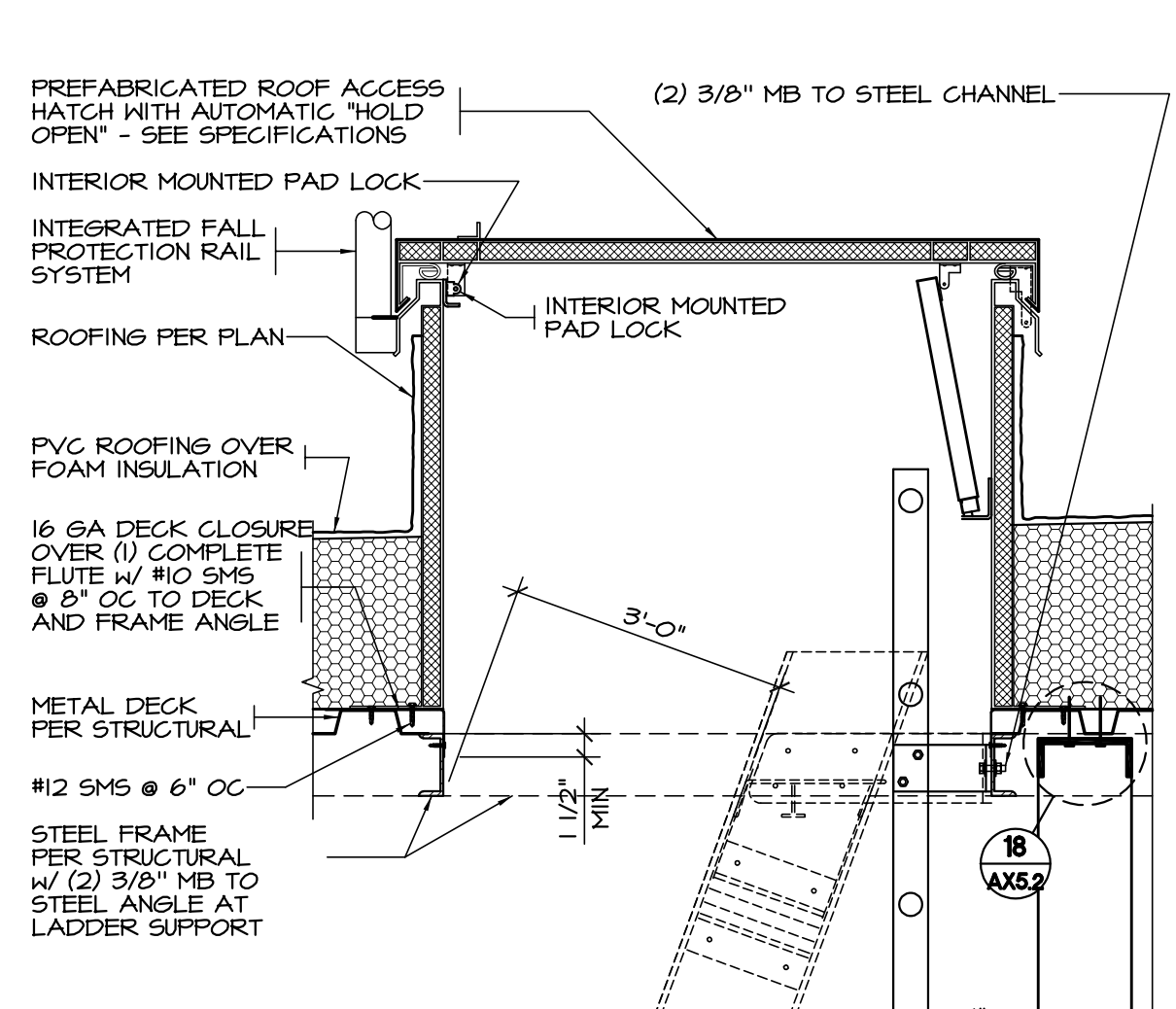
FLOOR MOUNTED EQUIPMENT ANCHORAGE SCALE: NTS 6



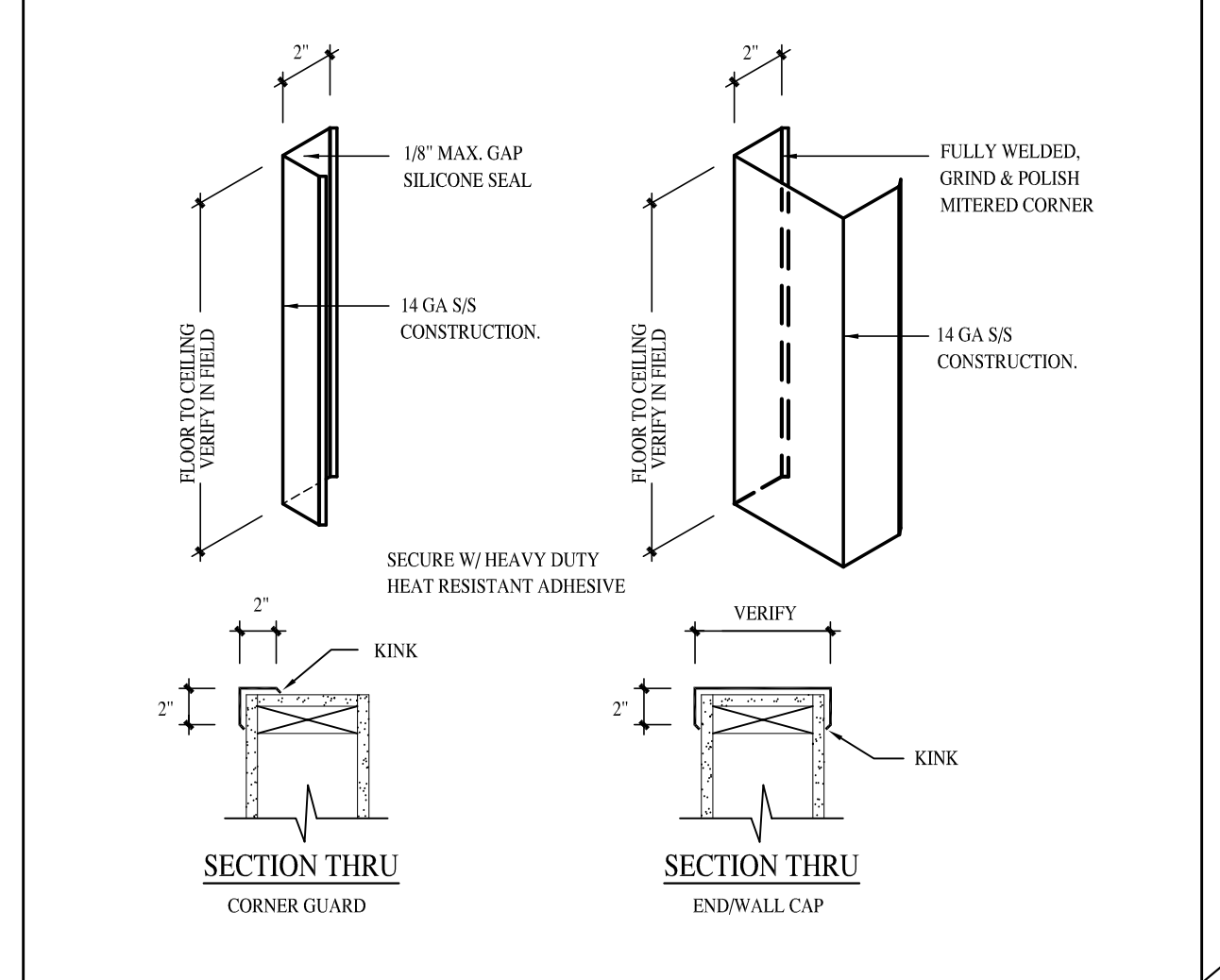
ROOF ACCESS HATCH / LADDER SCALE: 1/2\"/>



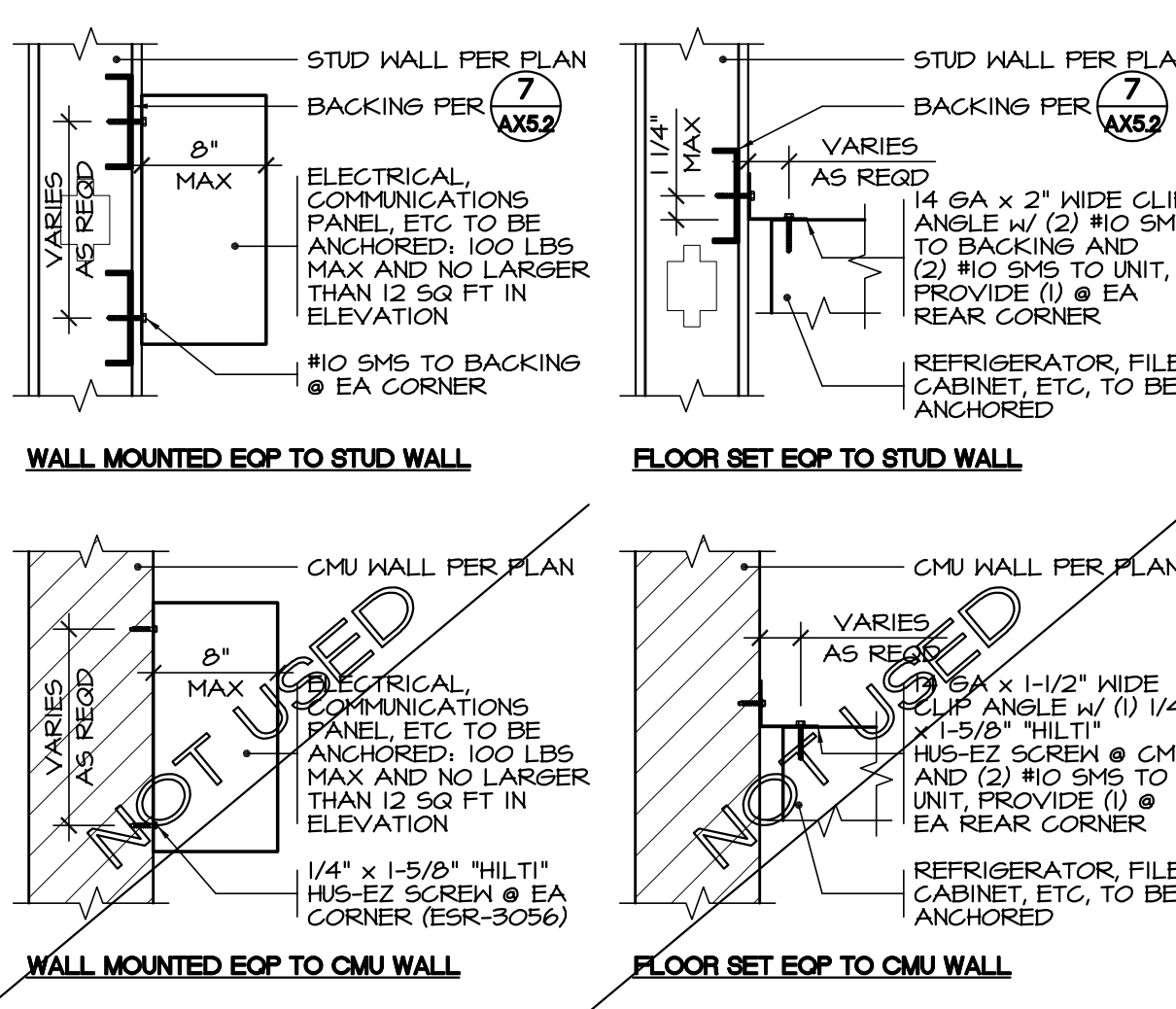
CORNER GUARD/END CAP/WALL CAP SCALE: NTS 11



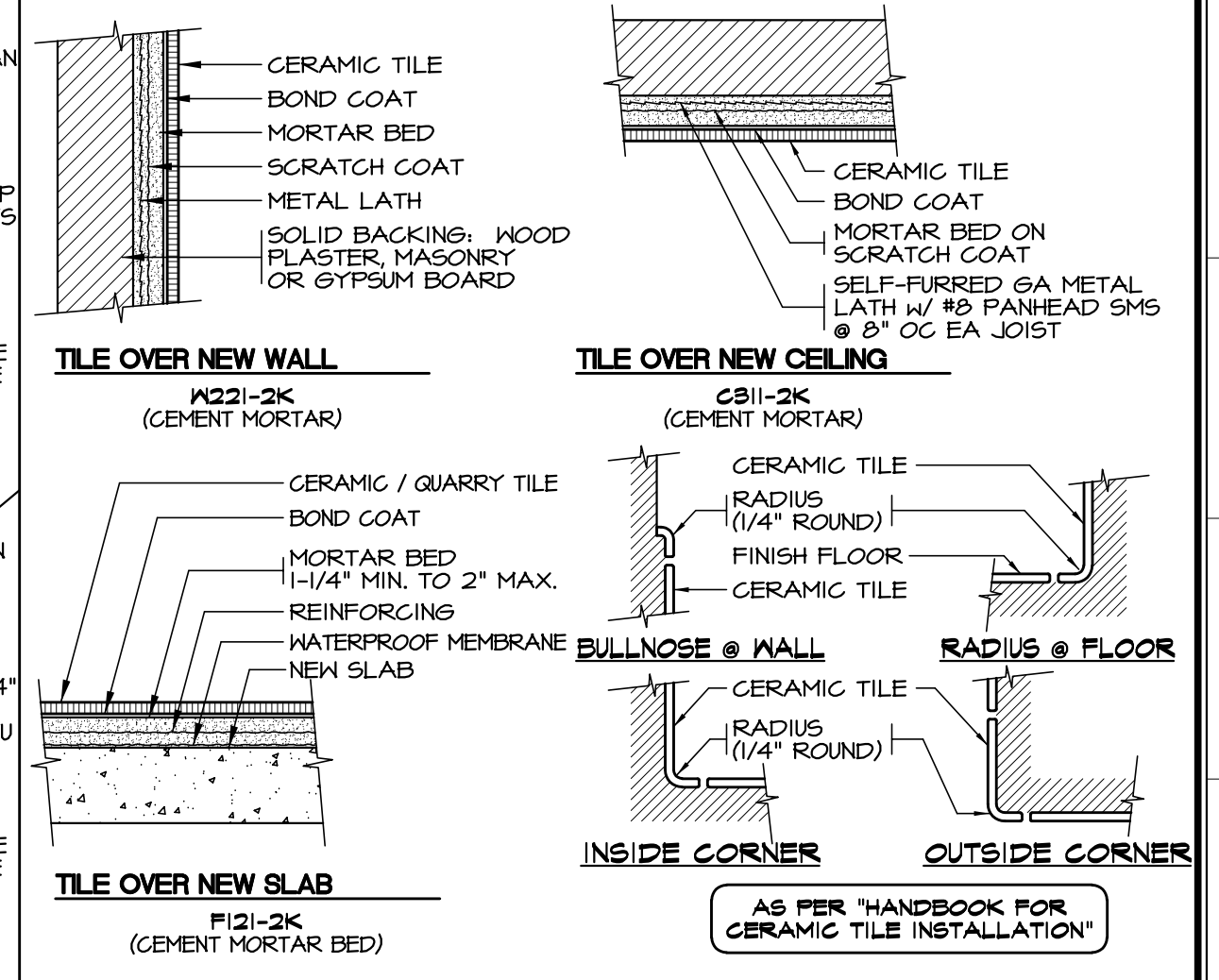
EQUIPMENT ANCHORAGE SCALE: NTS 12



TYPICAL TILE SCALE: 3\"/>



SS SINK SECTION SCALE: NTS 15



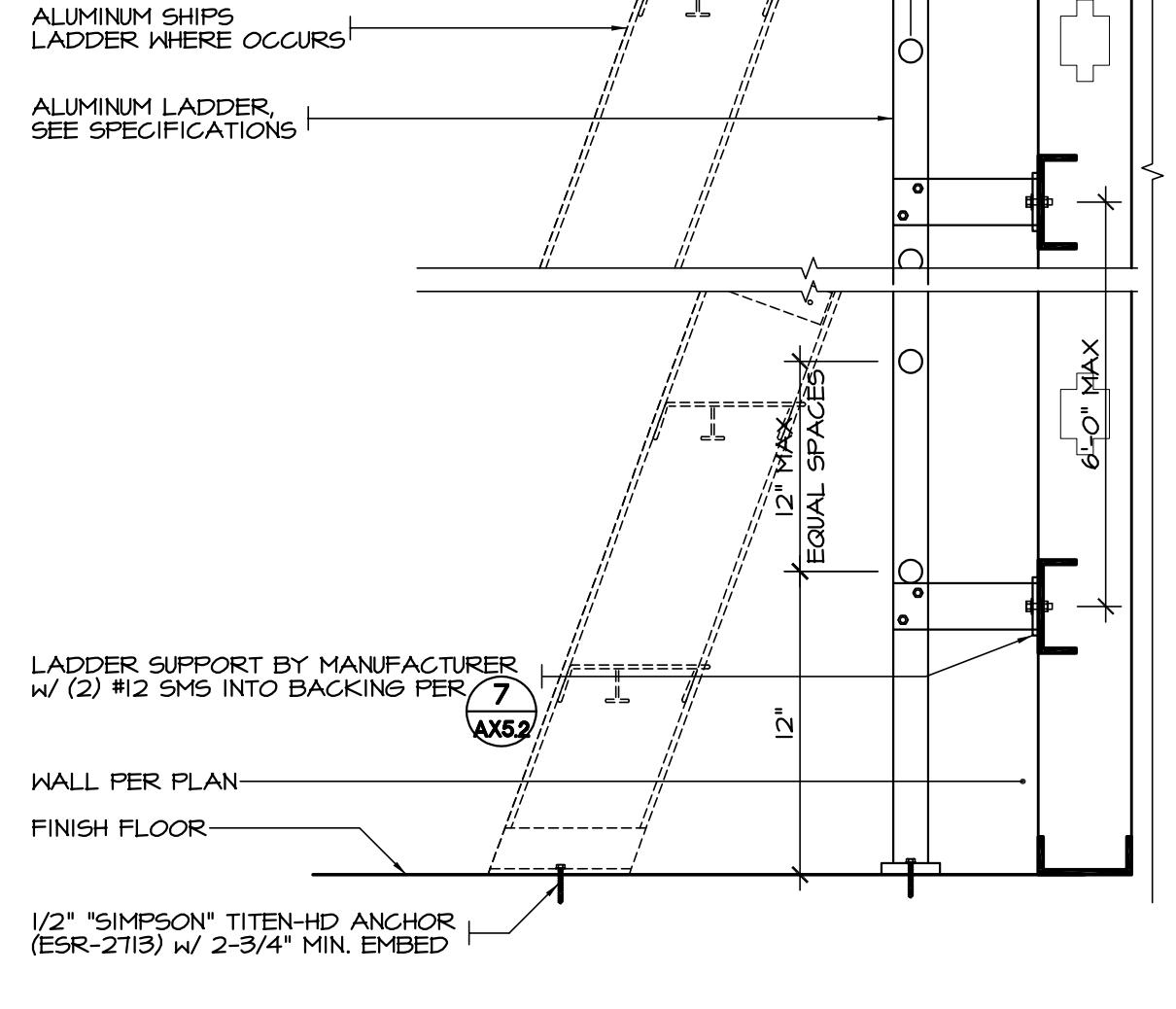
FOOT DETAILS SCALE: NTS 16



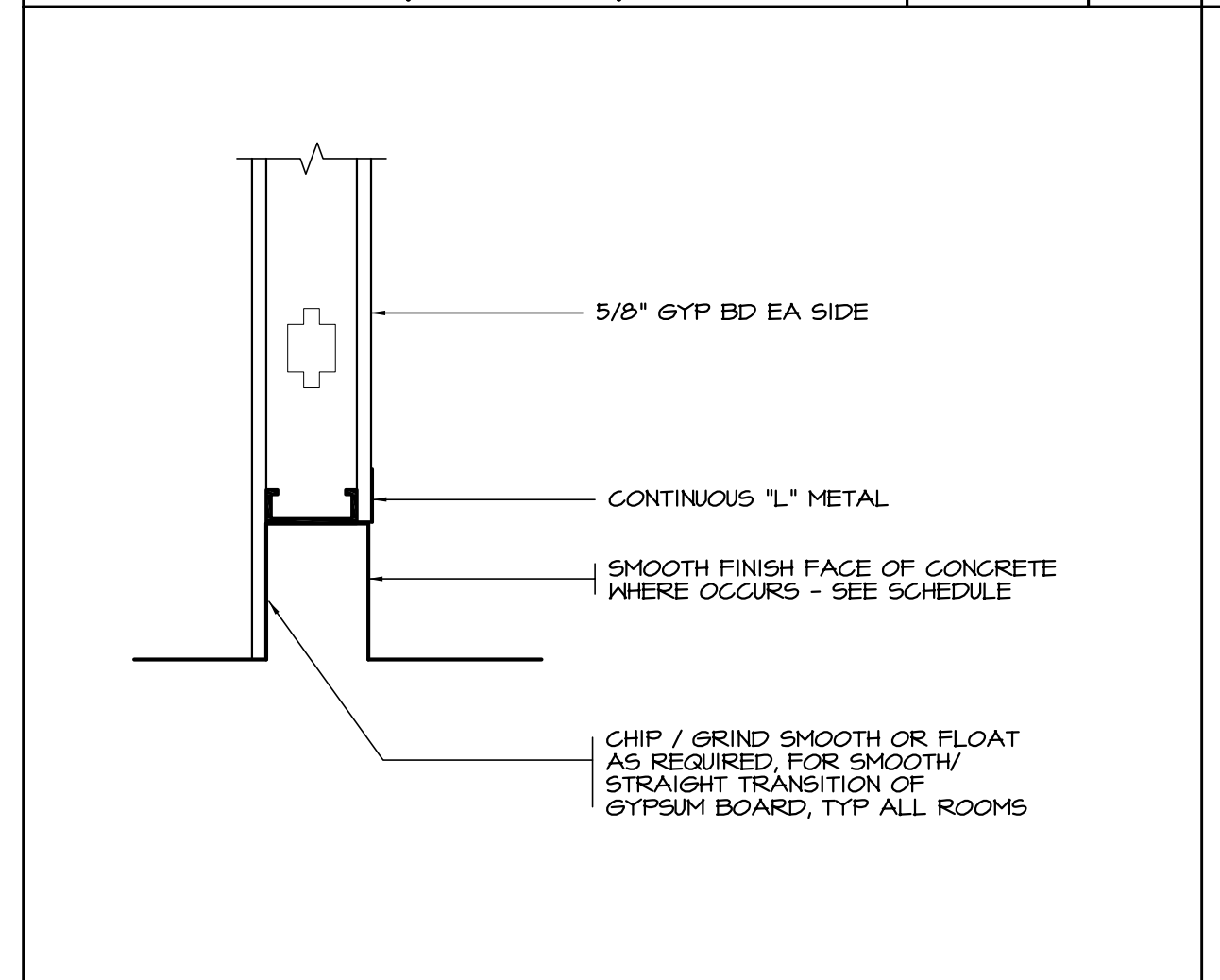
SS WALL SHELF SCALE: NTS 17



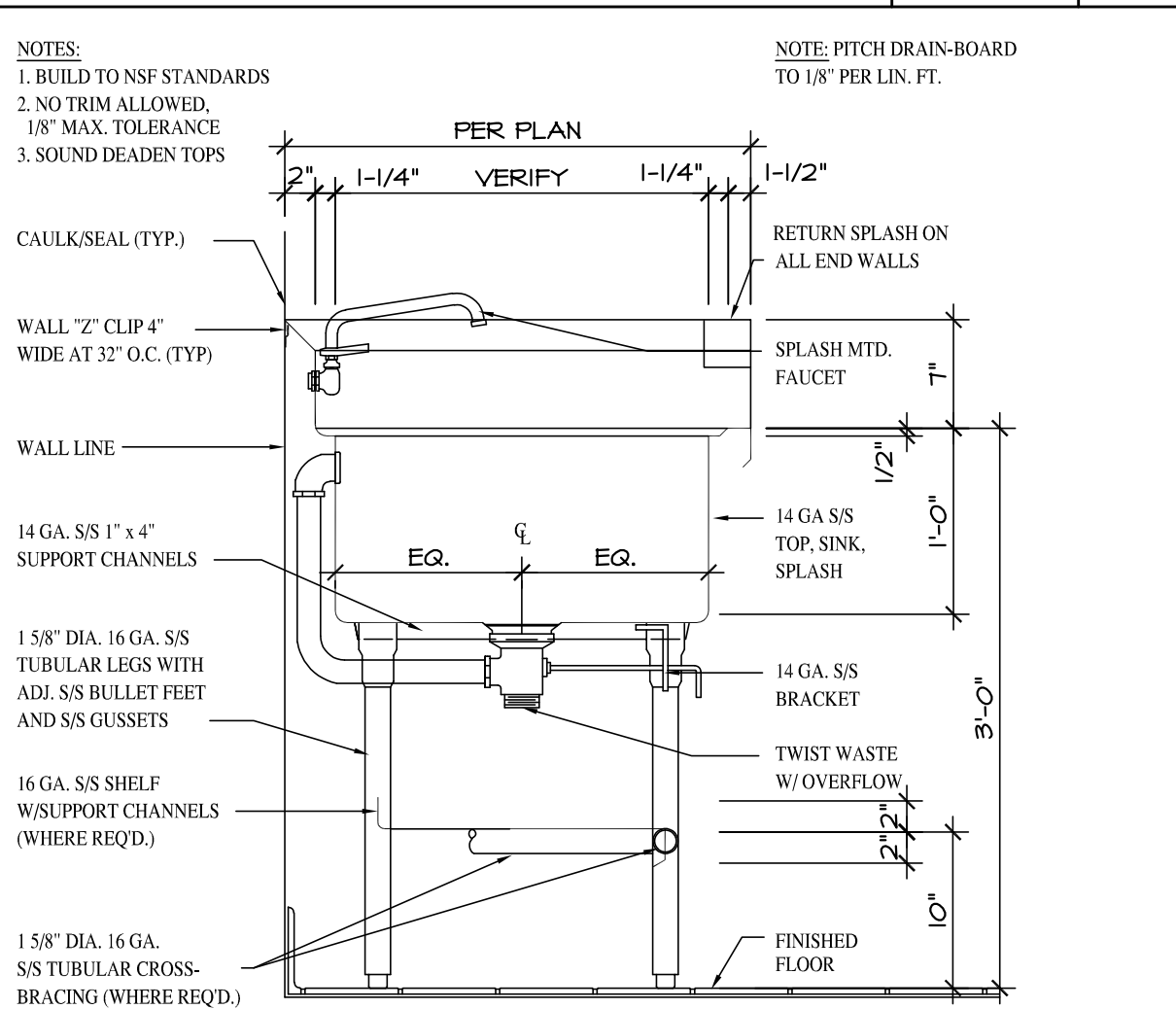
MOUNTING DETAIL SCALE: NTS 18



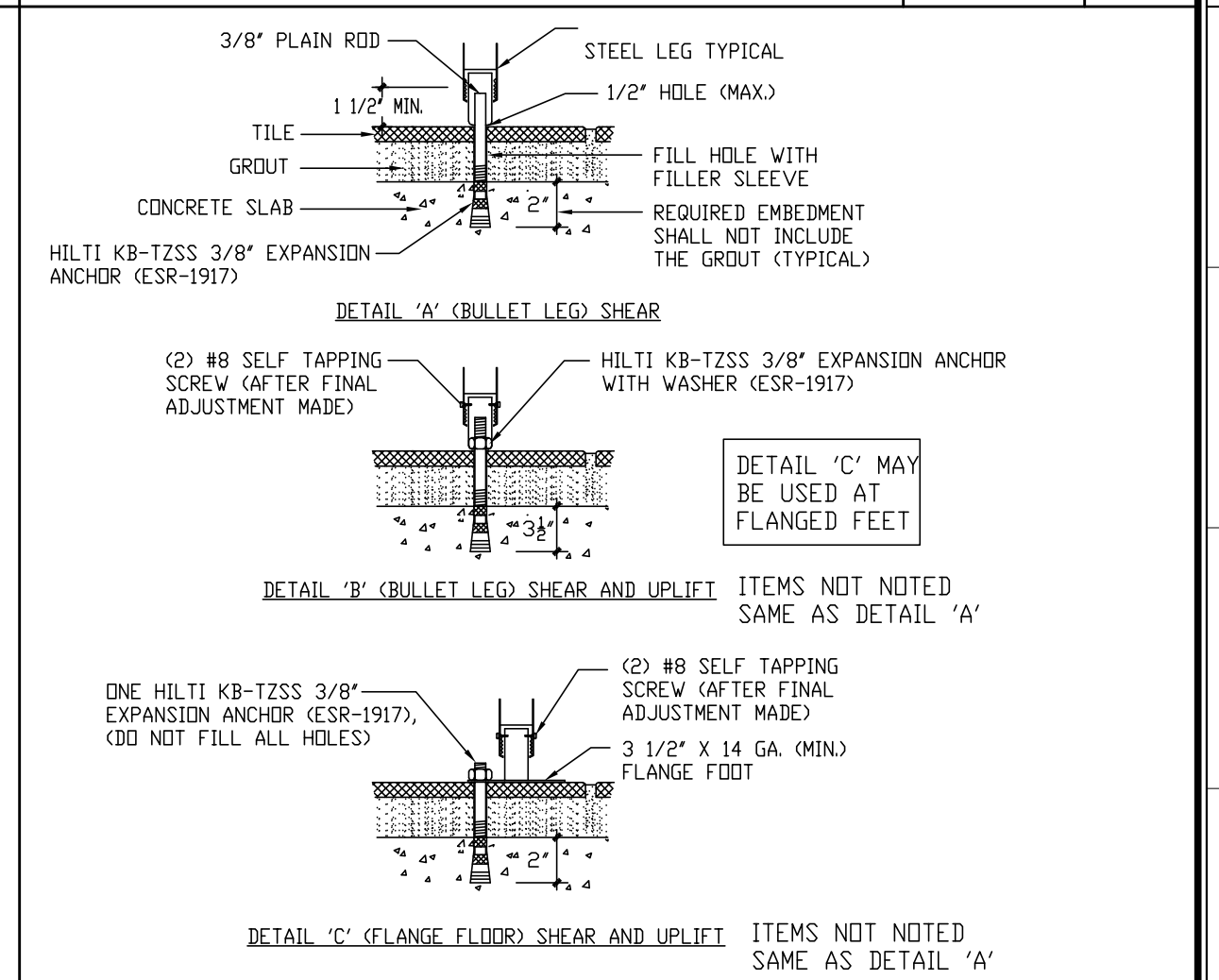
PENDANT LIGHT FIXTURE SWING SCALE: NTS 19



FIXTURE SEISMIC BRACING SCALE: NTS 20



SS WALL SHELF SCALE: NTS 17



MOUNTING DETAIL SCALE: NTS 18

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Project Title
**IMPERIAL VALLEY COLLEGE
 RESTROOM/CONCESSION BUILDING**

Sheet Title
INTERIOR ARCHITECTURAL DETAILS

Document Date
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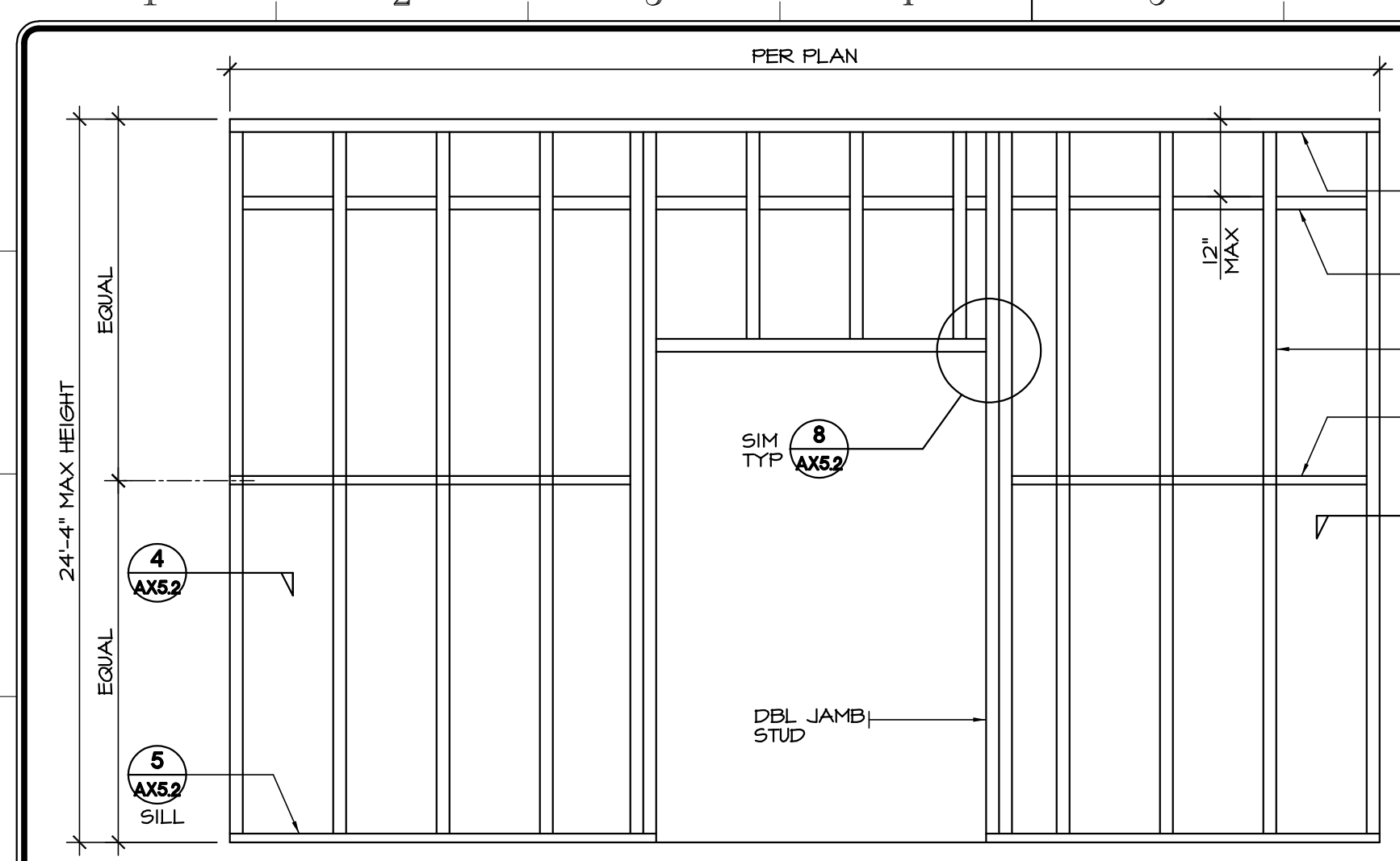
Date Last Revised

Project Number
 22-091V

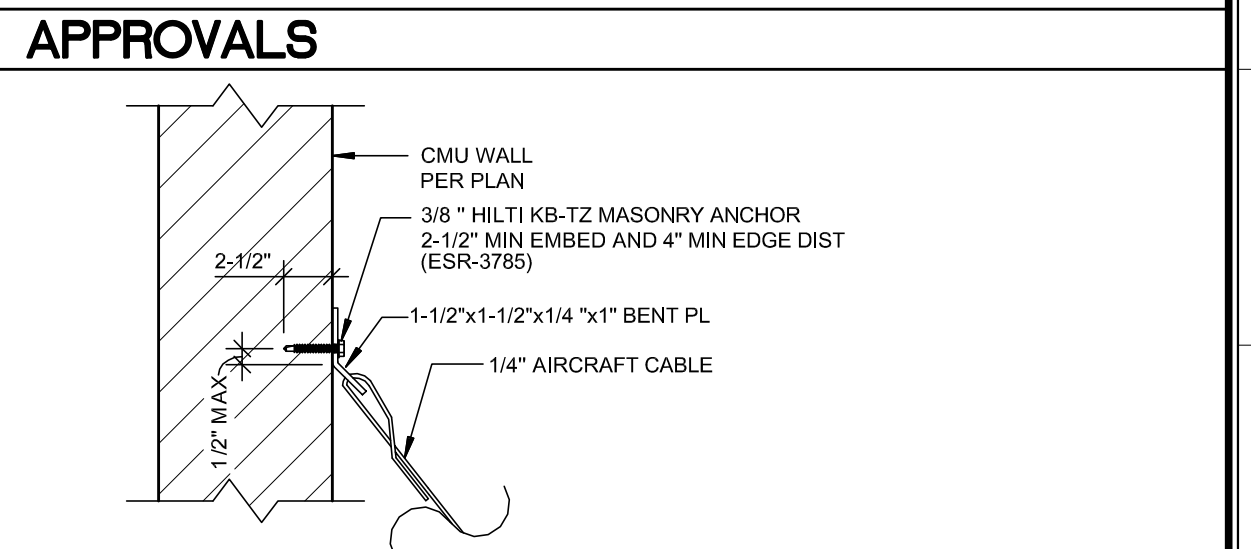
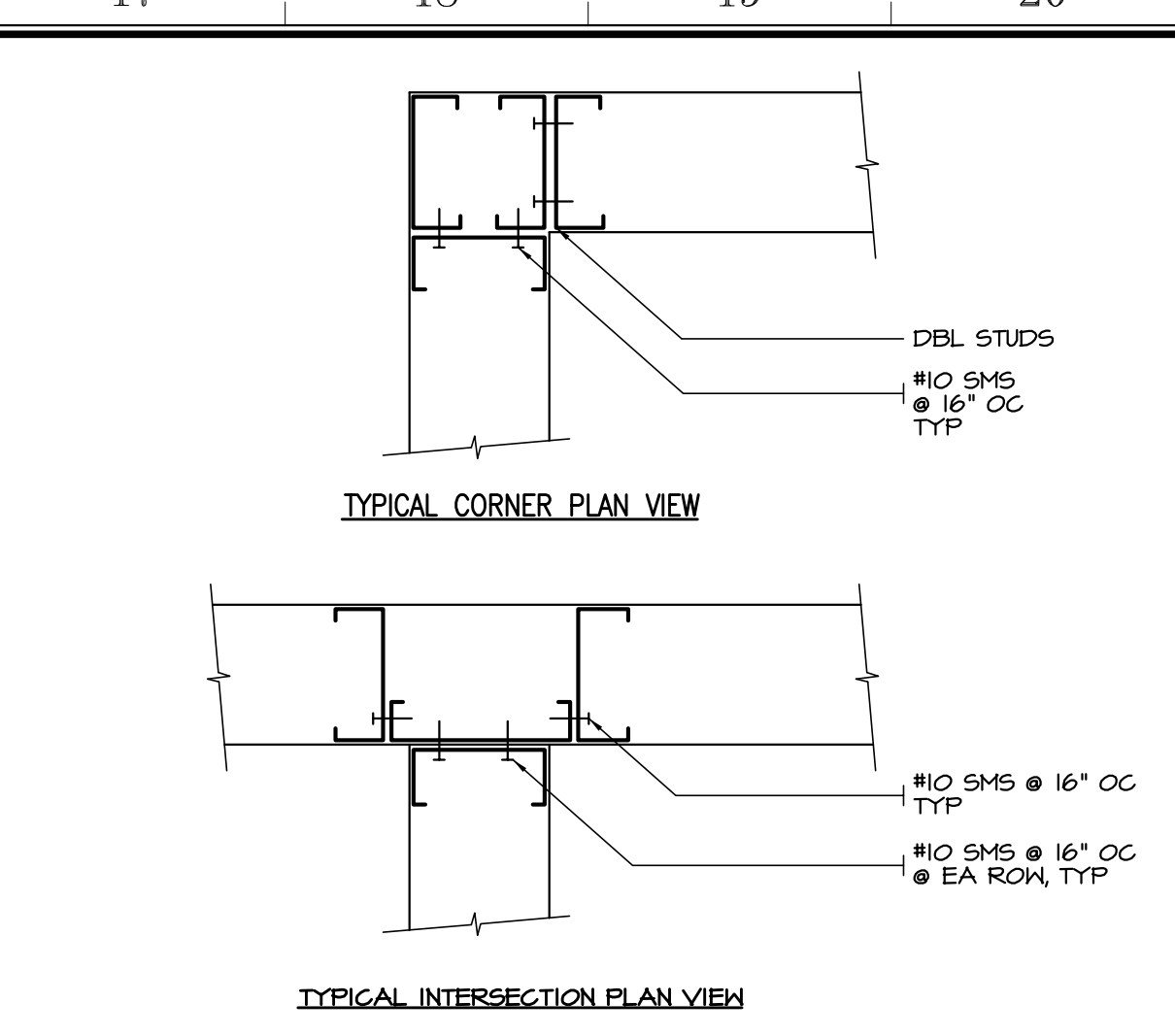
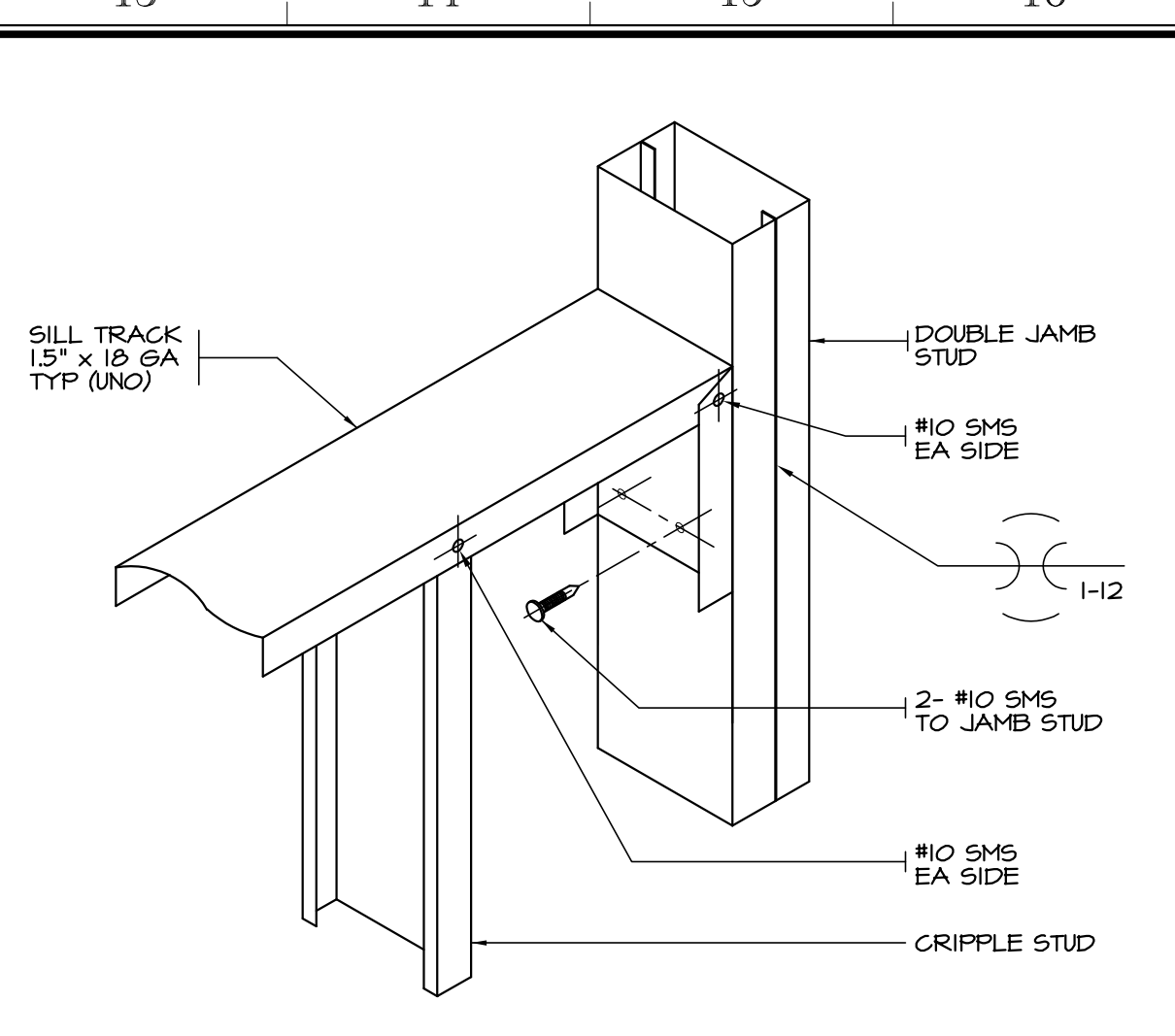
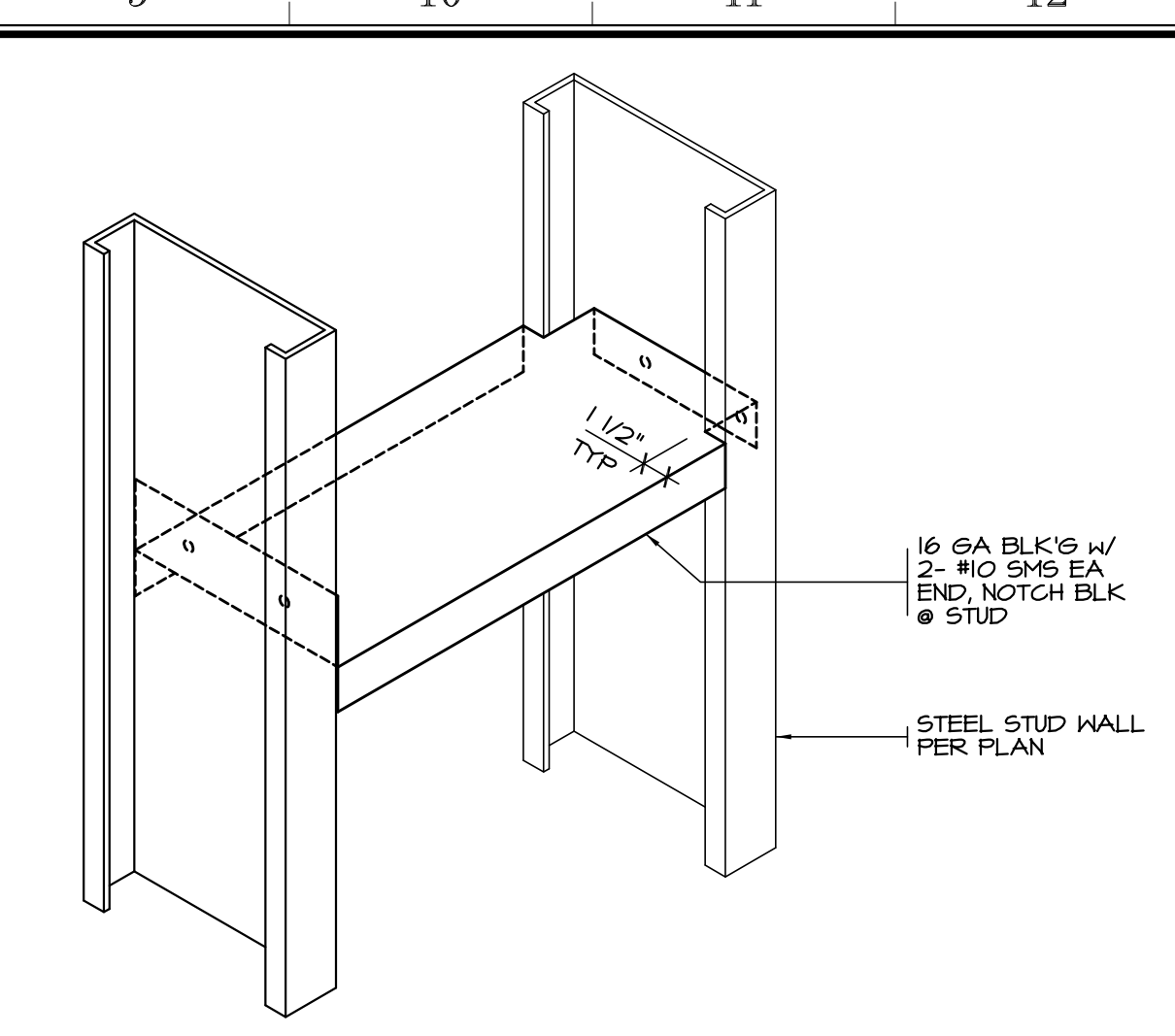
Sheet Number
AX5.1

APPROVALS

APPROVED: [Signature]
 JIMMY SANDERS
 LICENSED ARCHITECT
 STATE OF CALIFORNIA



- NOTES:**
- 4" x 10 GA STUDS w/ 1-5/8" FLANGE 400S162-43 TYP. UNO
 - UNO ALL STUDS SHALL BE "STEEL STUD MANUFACTURERS ASSOC." (ESR-3064P)
 - FOR BLOCKING AND BRIDGING, SEE (2) (11) AX52
 - WALLS WITHOUT FLANGE BRACING BOTH SIDES SHALL HAVE BRIDGING @ 48" OC PER 11/AX52
 - FURRING WALL FLANGES ARE BRACED BY CLIP TO MASONRY PER 19/AX52



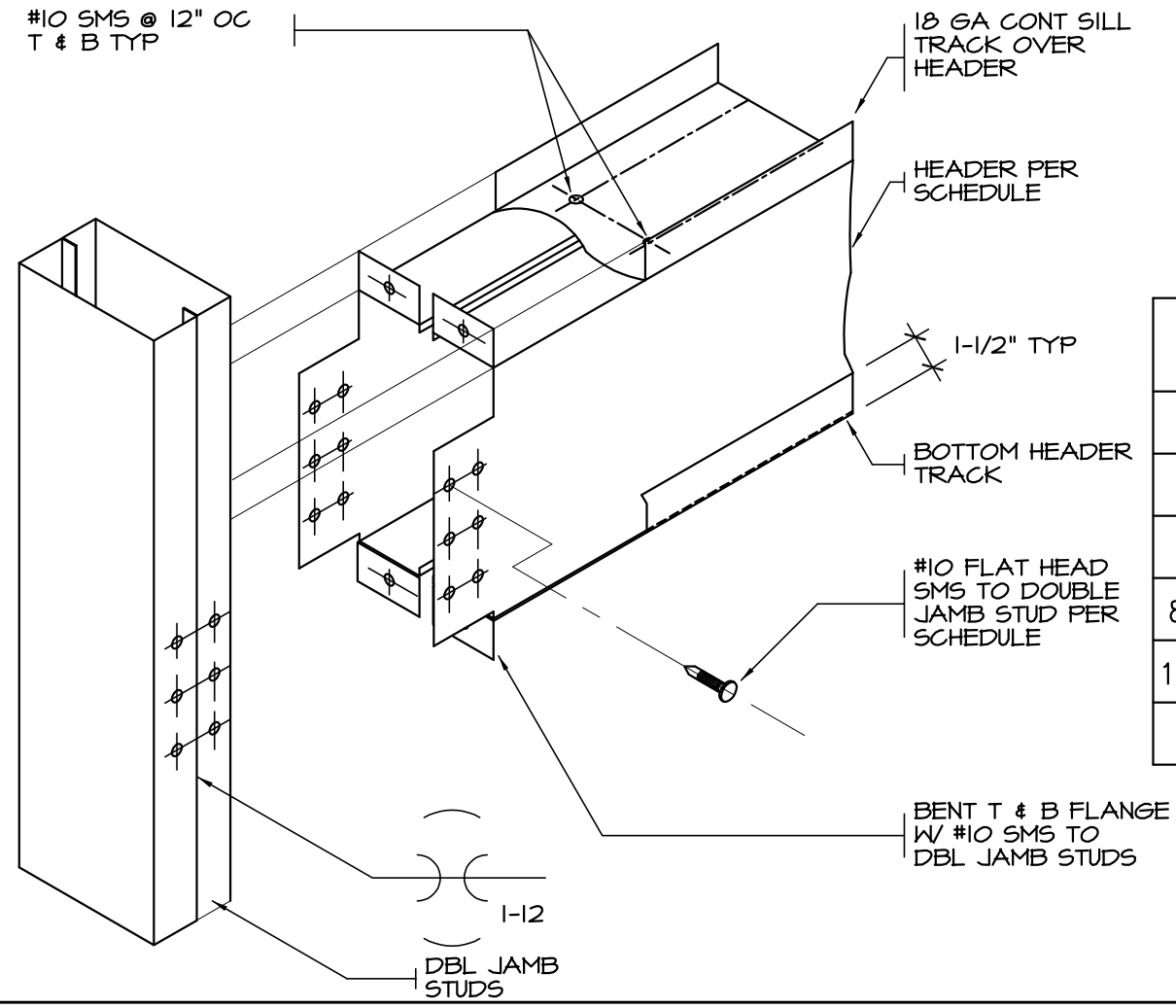
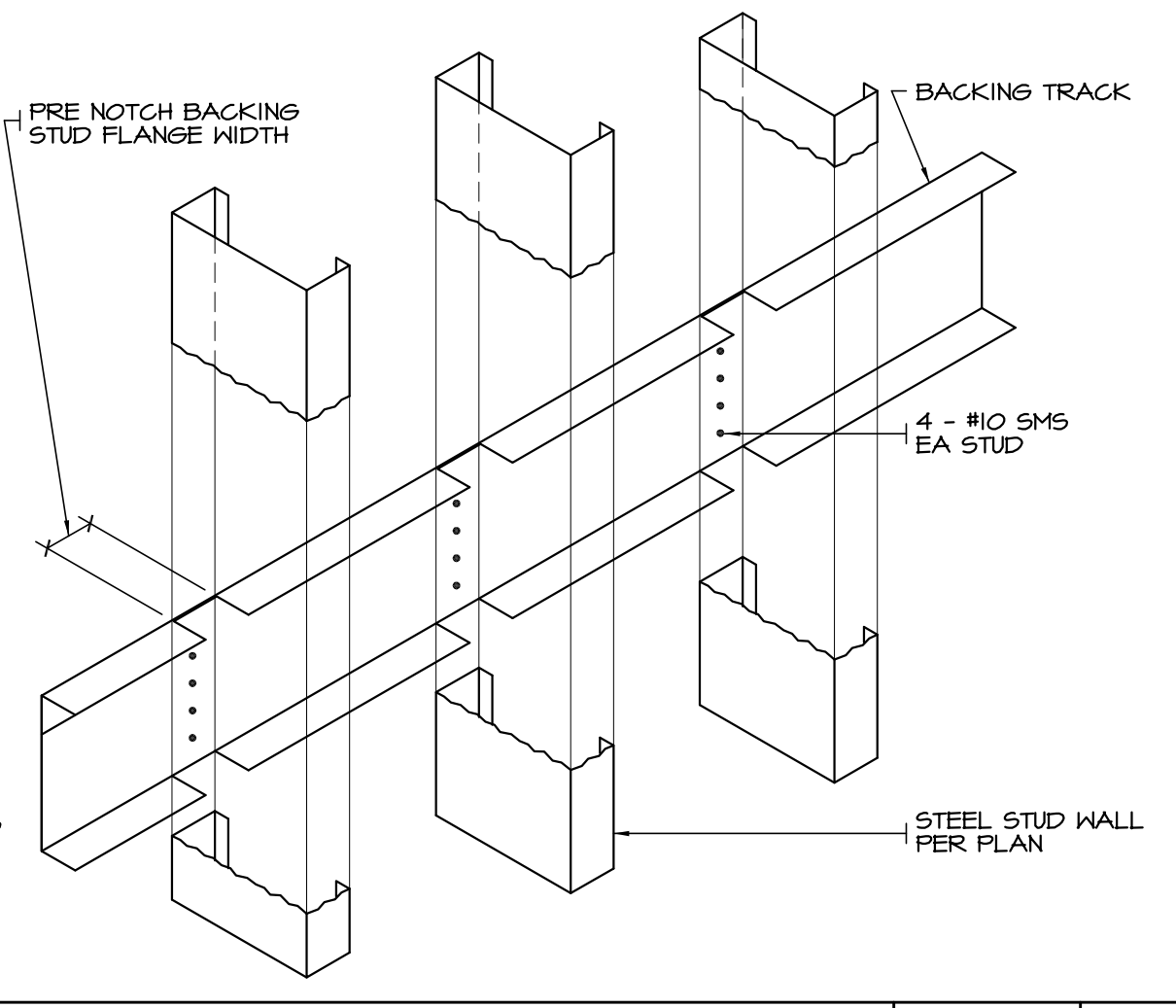
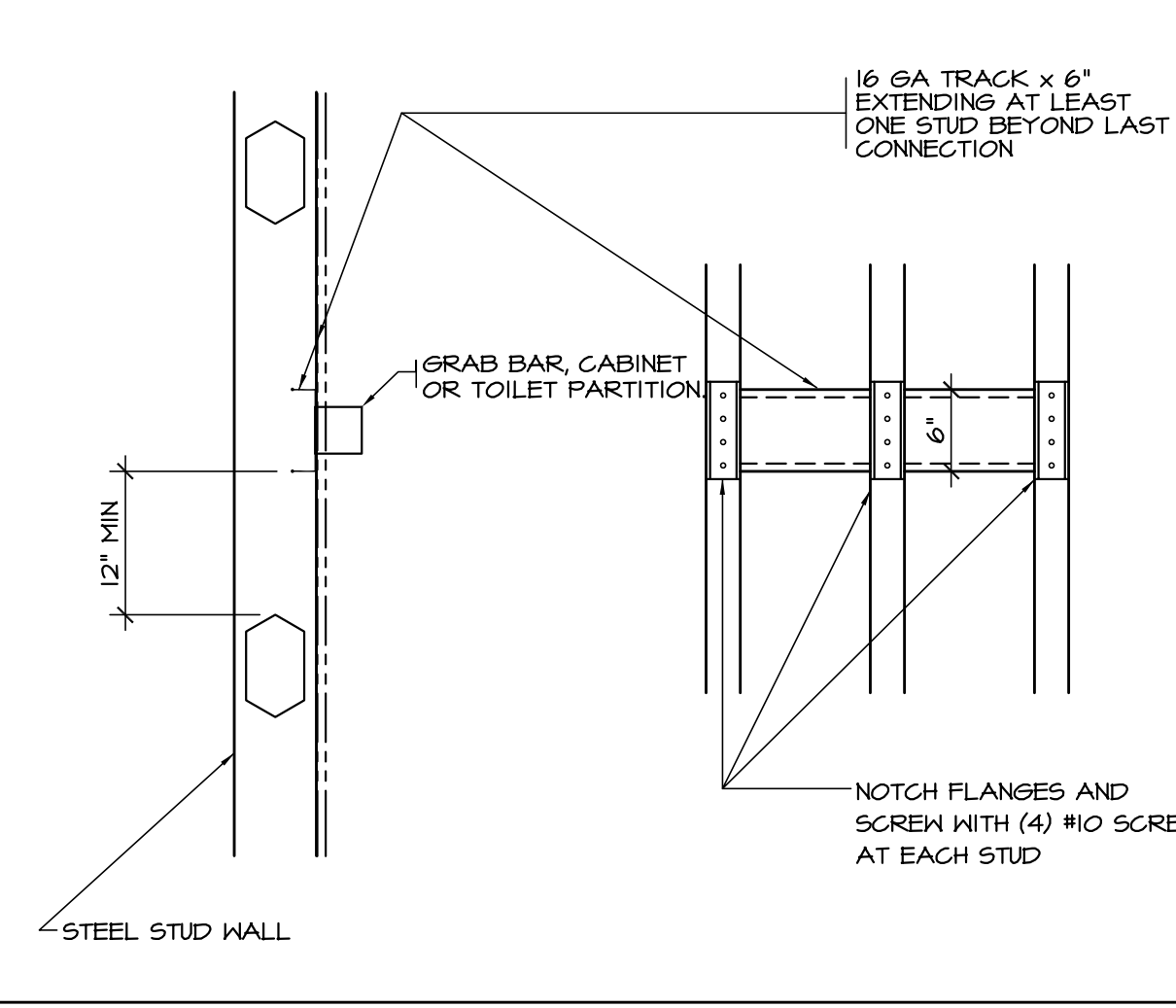
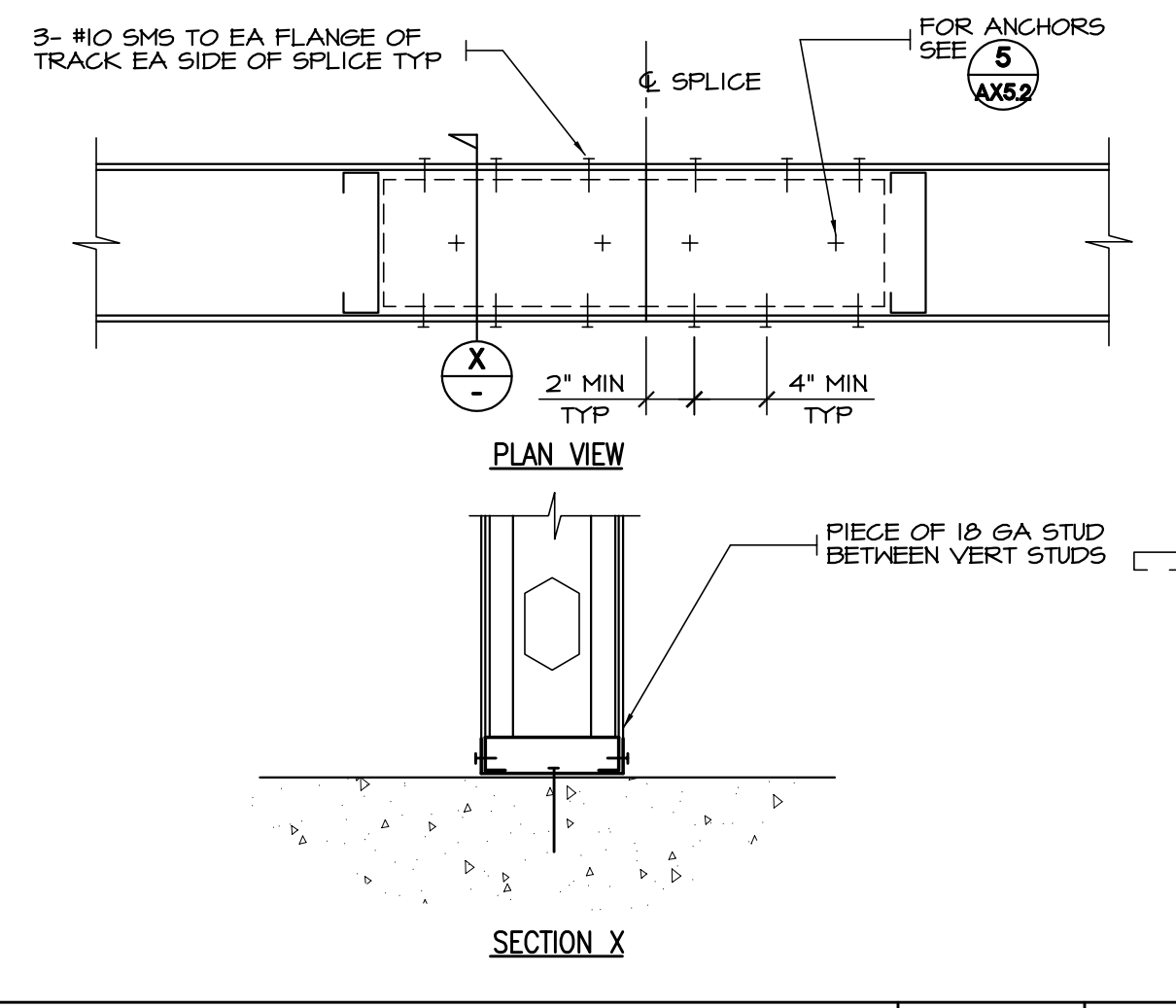
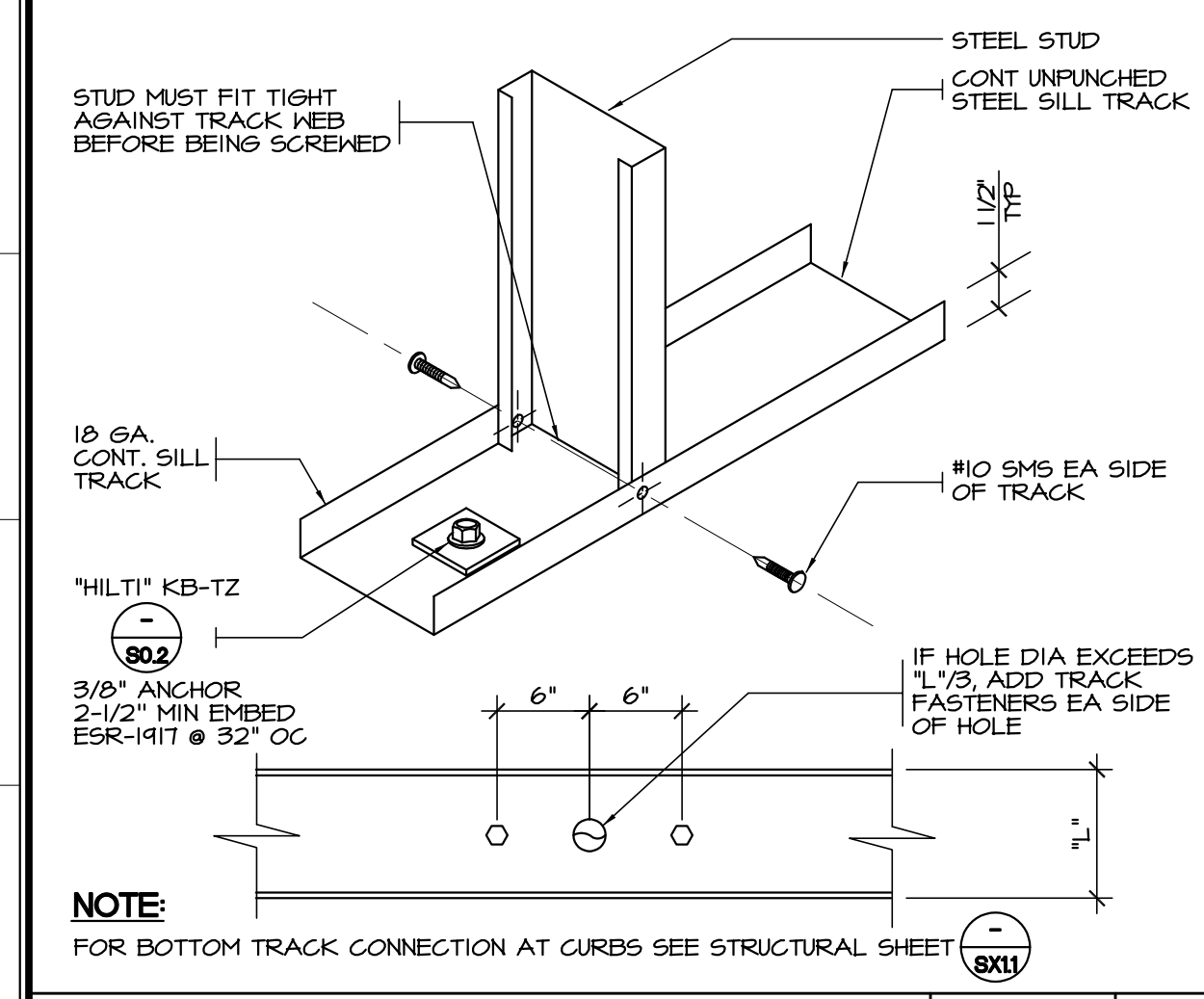
TYPICAL STEEL STUDWALL PANEL SCALE: 1/2" = 1'-0" 1

TYPICAL BLOCKING SCALE: NTS 2

TYPICAL SILL TO JAMB STUD CONN. SCALE: NTS 3

TYP CORNER CONNECTION SCALE: 1/2" = 1'-0" 4

AIRCRAFT CABLE TO MASONRY SCALE: NTS 25



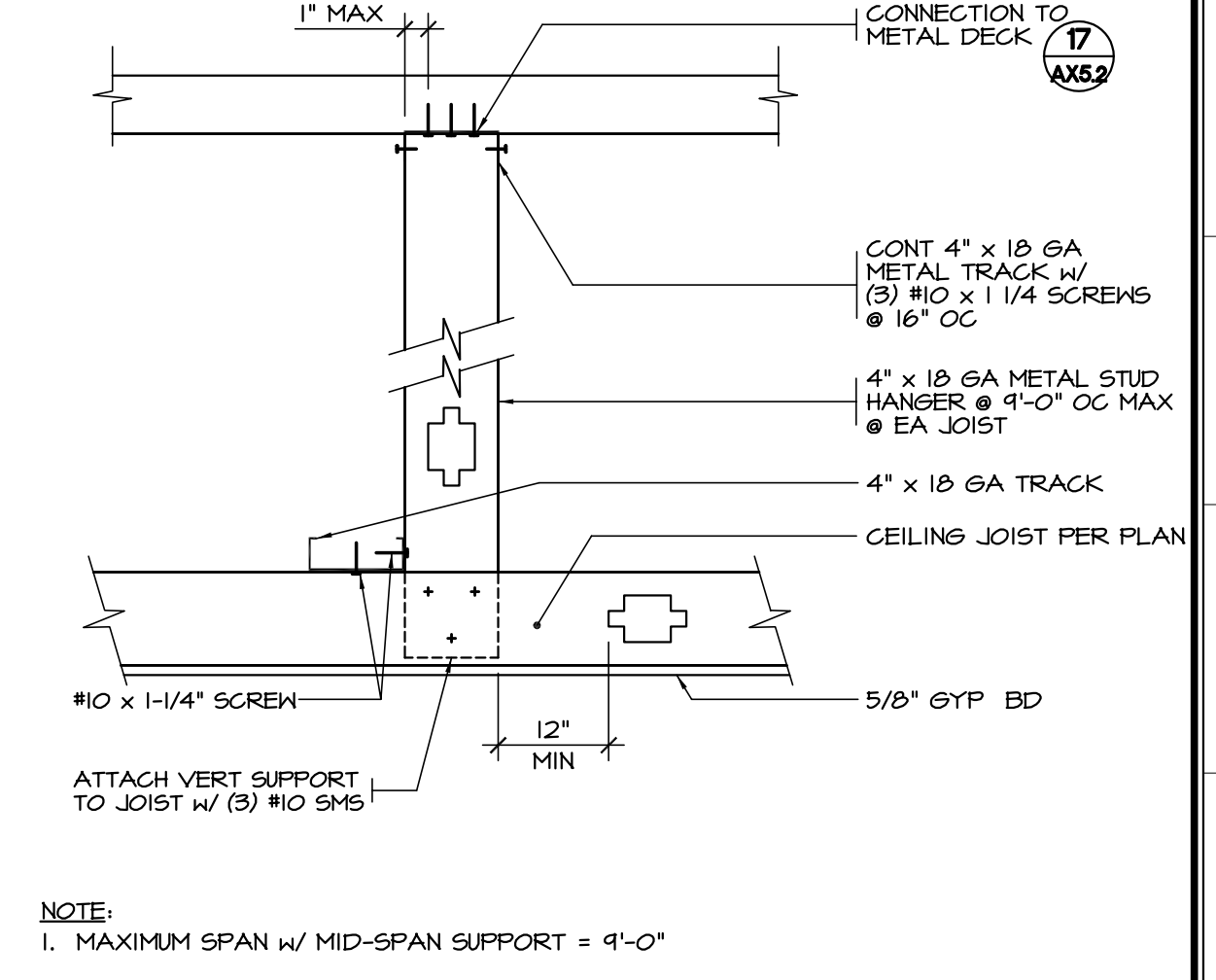
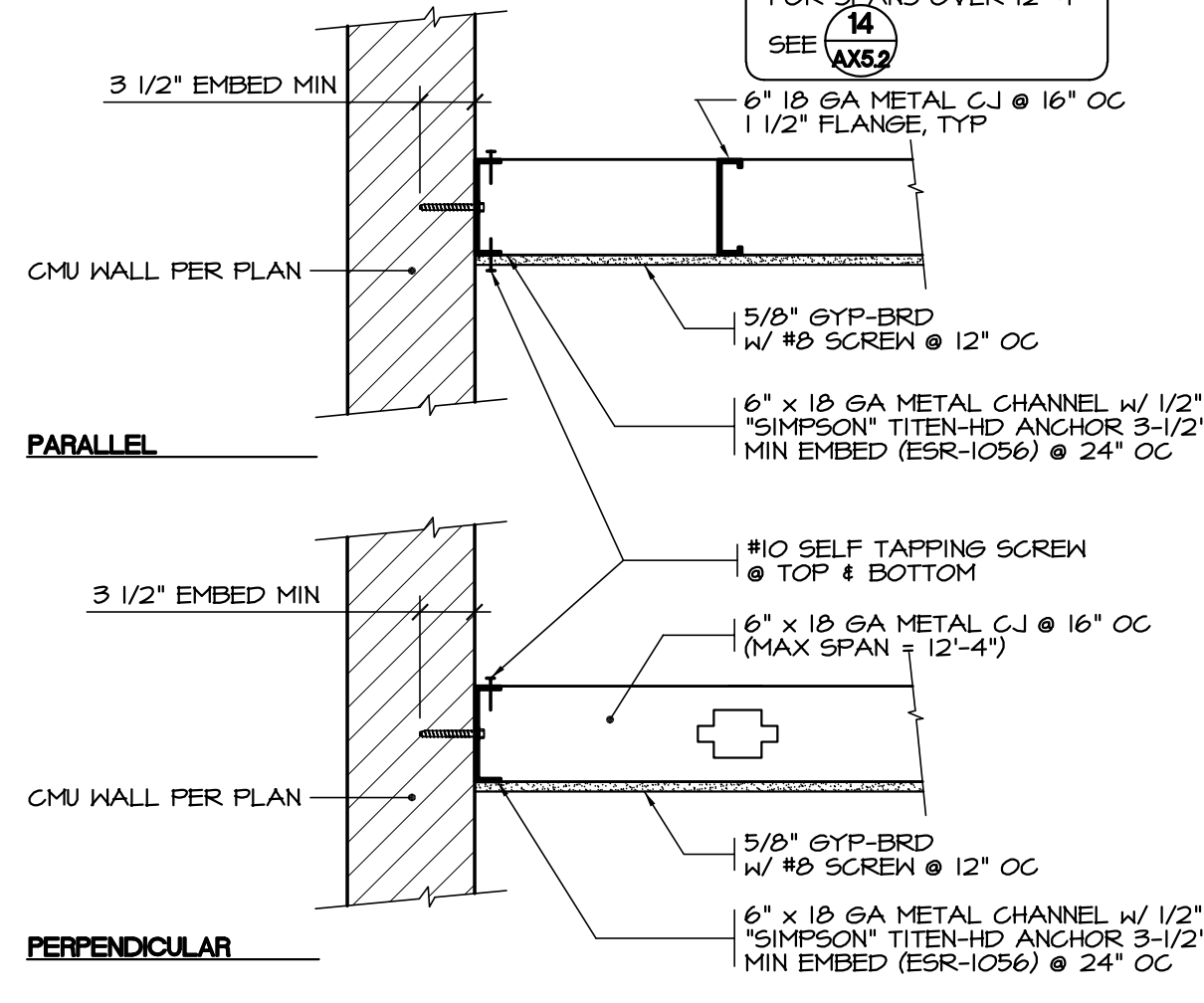
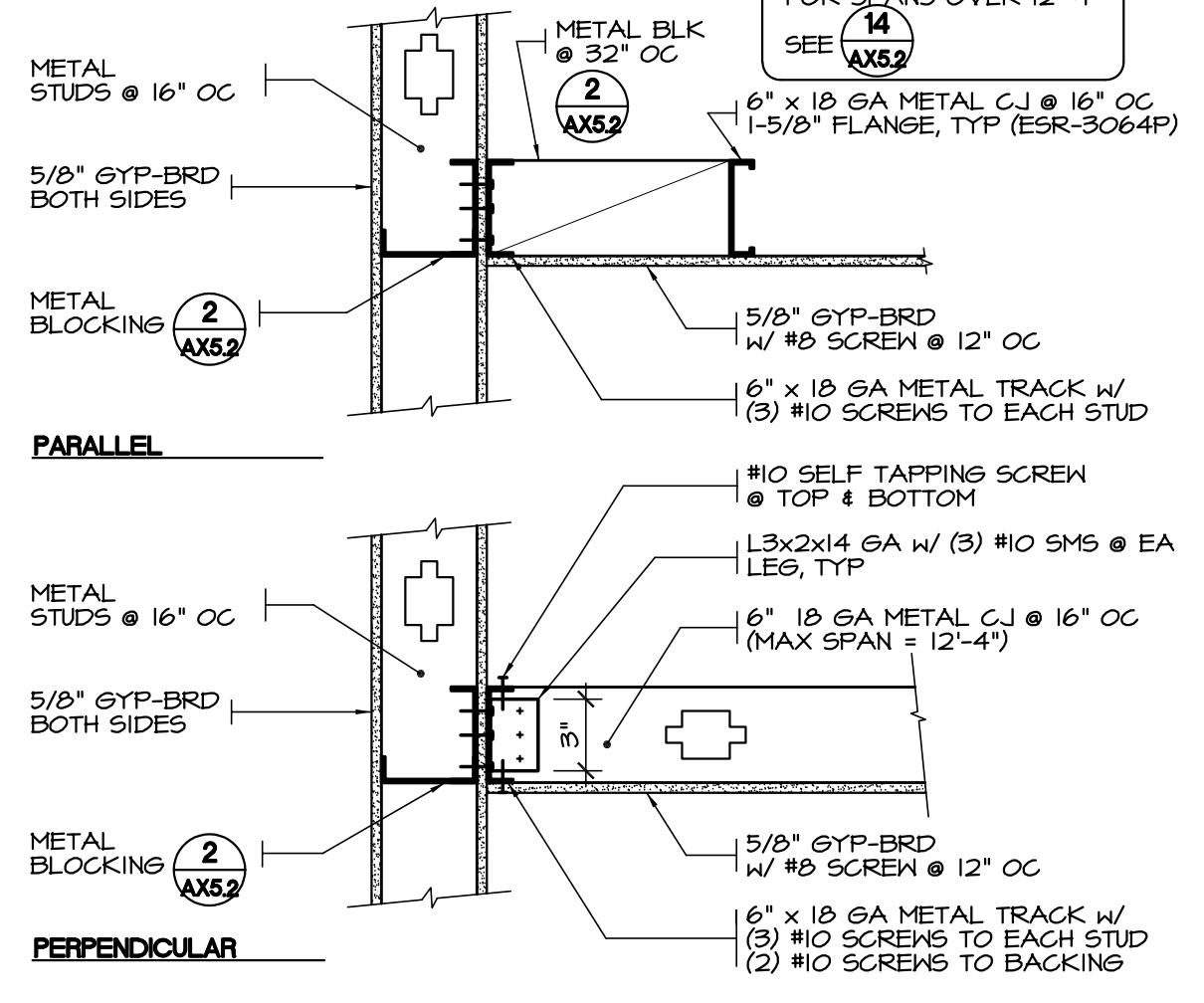
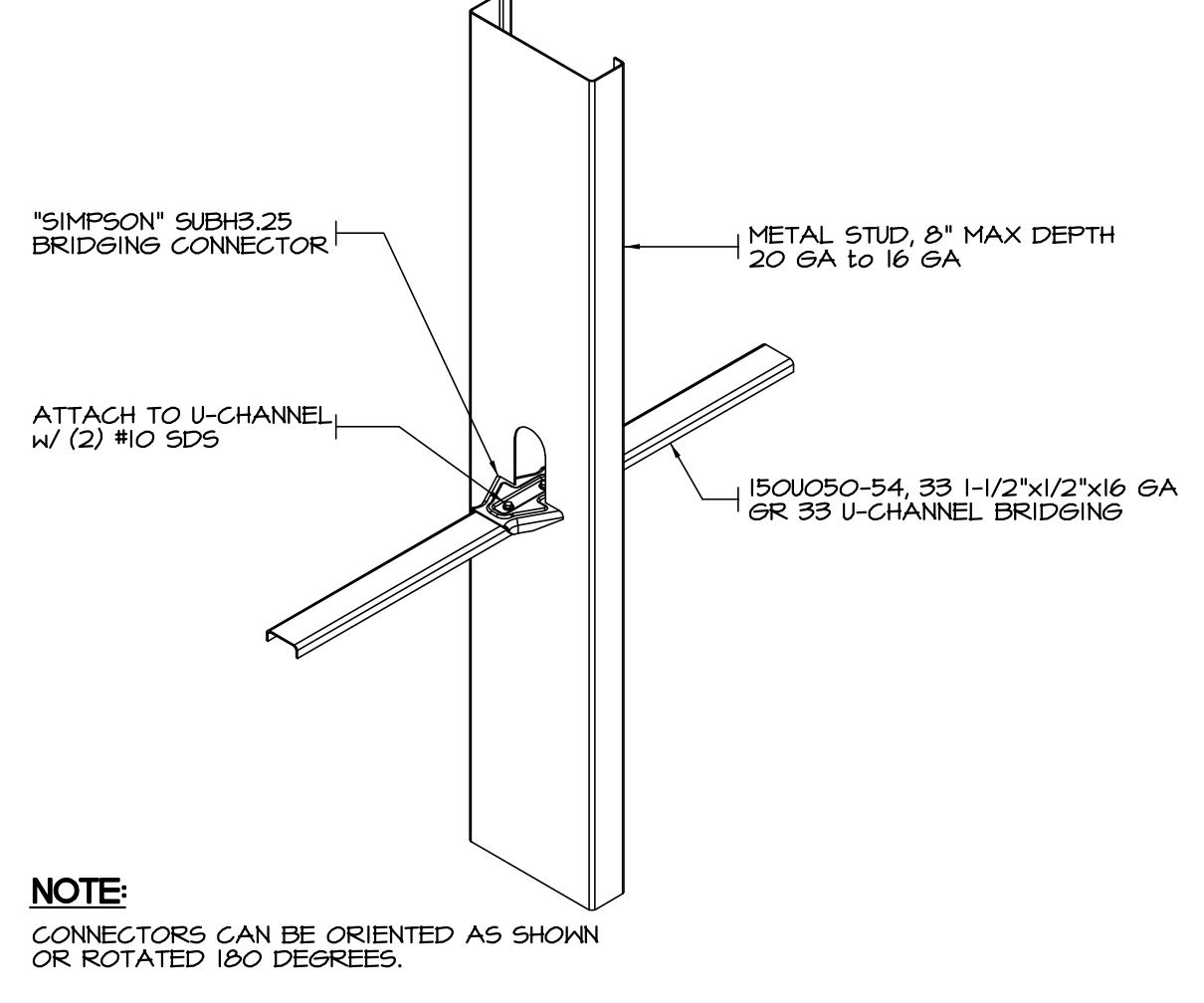
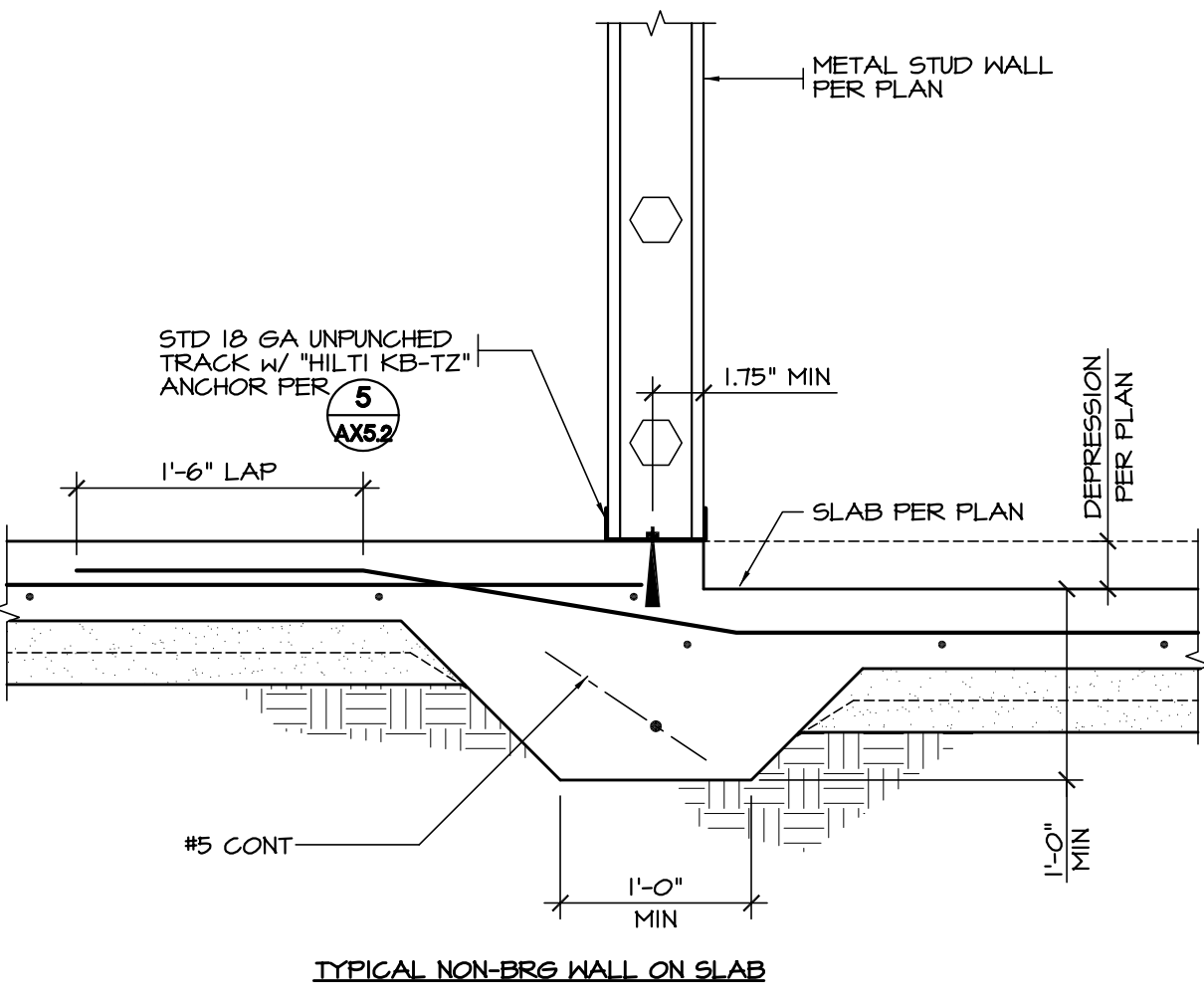
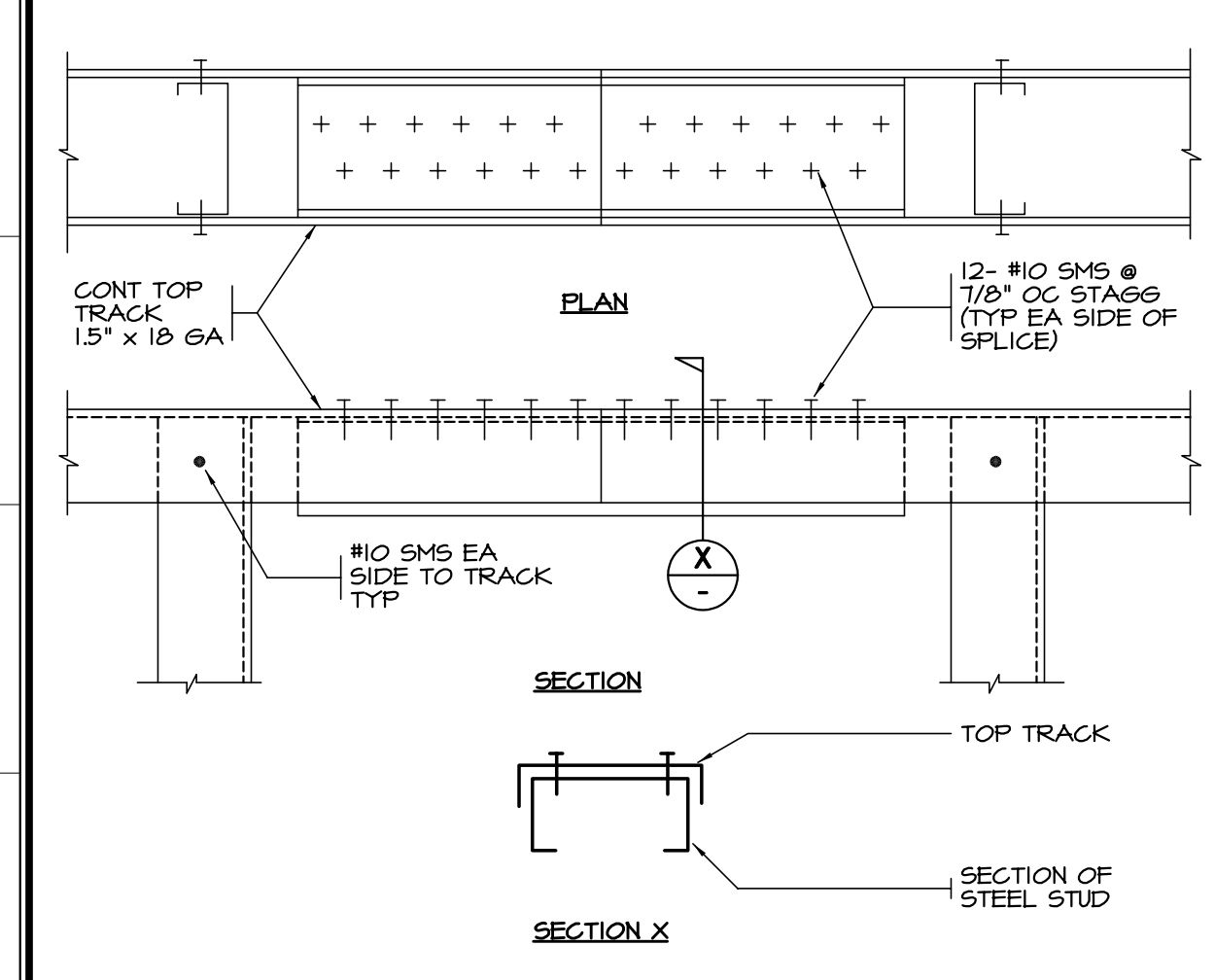
NONBEARING HEADER SCHEDULE			
OPENING	HEADER SIZE	HEADER CONNECTOR	REMARK
0 ≥ 6'-0"	2- 400S162-43	4- #10 FLAT HEAD SMS ES	
6'-0" ≥ 8'-0"	2- 600S162-43	6- #10 FLAT HEAD SMS ES	16GA DBL JAMB STUDS
8'-0" ≥ 10'-0"	2- 800S162-54	8- #10 FLAT HEAD SMS ES	16GA DBL JAMB STUDS
10'-0" ≥ 12'-0"	2- 800S162-54	10- #10 FLAT HEAD SMS ES	600S162-54 SILL TRACK, 16GA DBL JAMB STUDS
> 12'-0"	2- 800S162-54	10- #10 FLAT HEAD SMS ES	600S162-54 SILL TRACK, 12GA DBL JAMB STUDS

TYPICAL BOTTOM TRACK CONNECTION SCALE: NTS 5

TYP BOTTOM TRACK SPLICE SCALE: 1" = 1'-0" 6

TYPICAL BACKING SCALE: NTS 7

TYP NON-BRG WALL HEADER SCALE: 1" = 1'-0" 8



TYP NON-BRG WALL TRACK SPLICE SCALE: 1" = 1'-0" 9

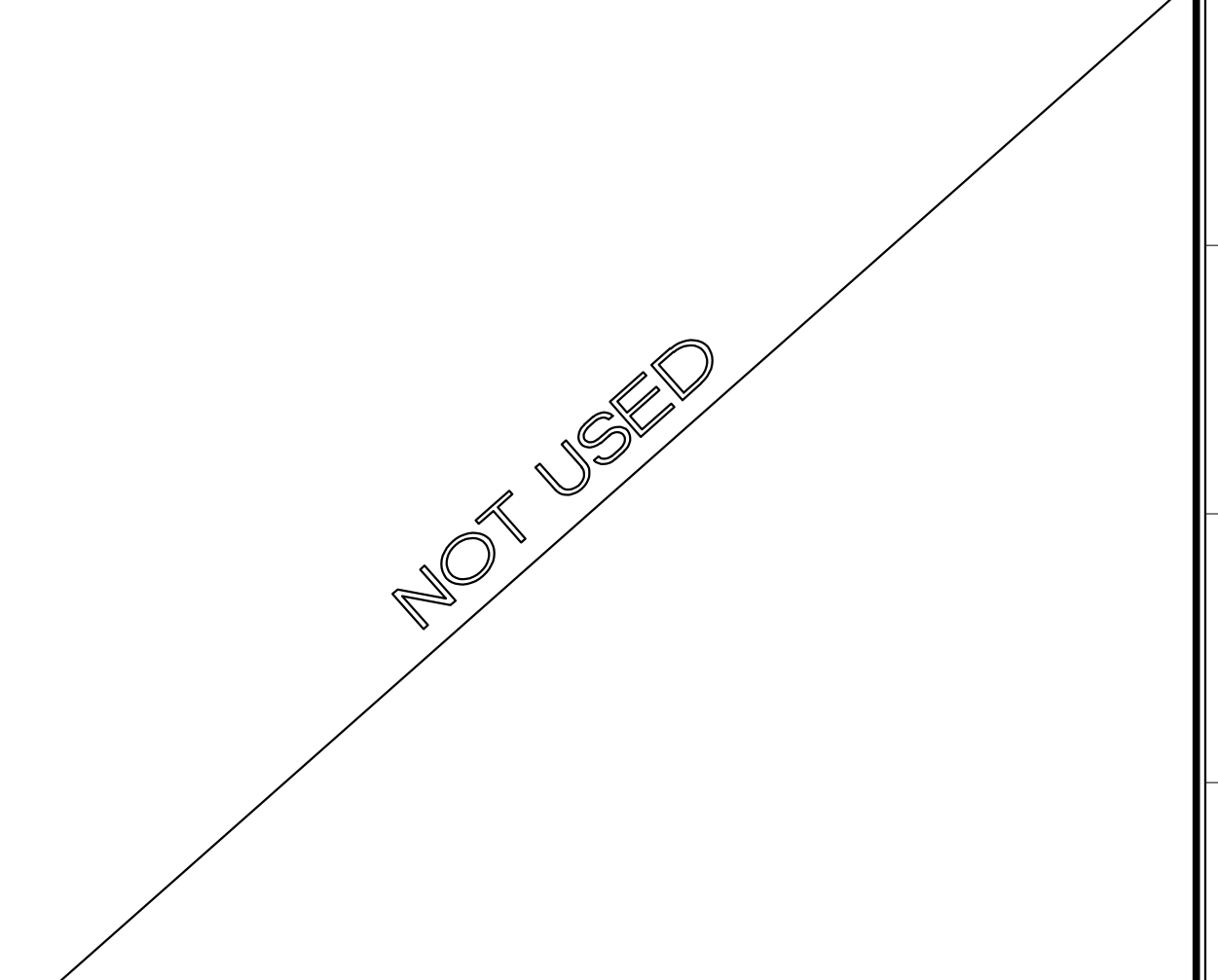
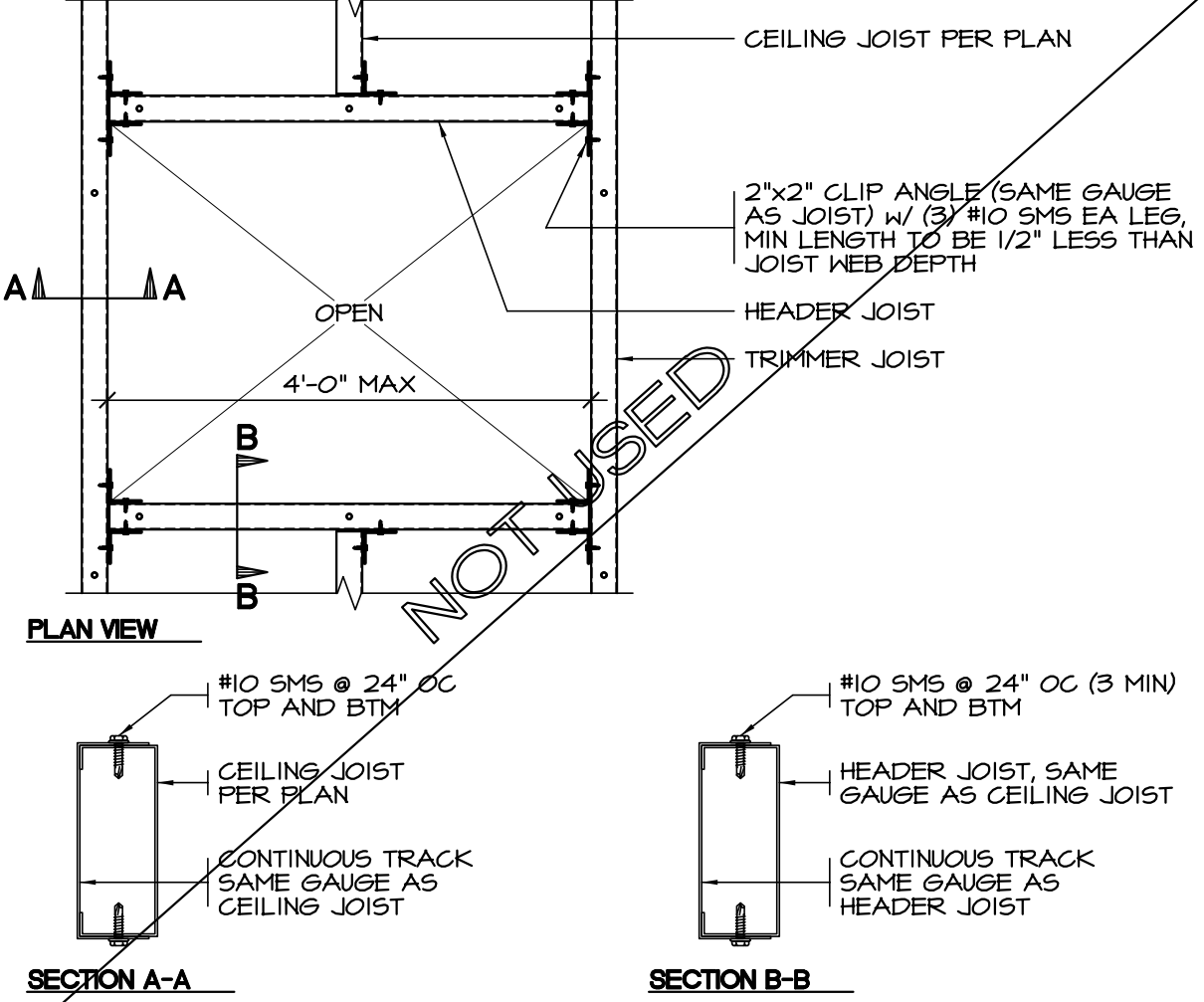
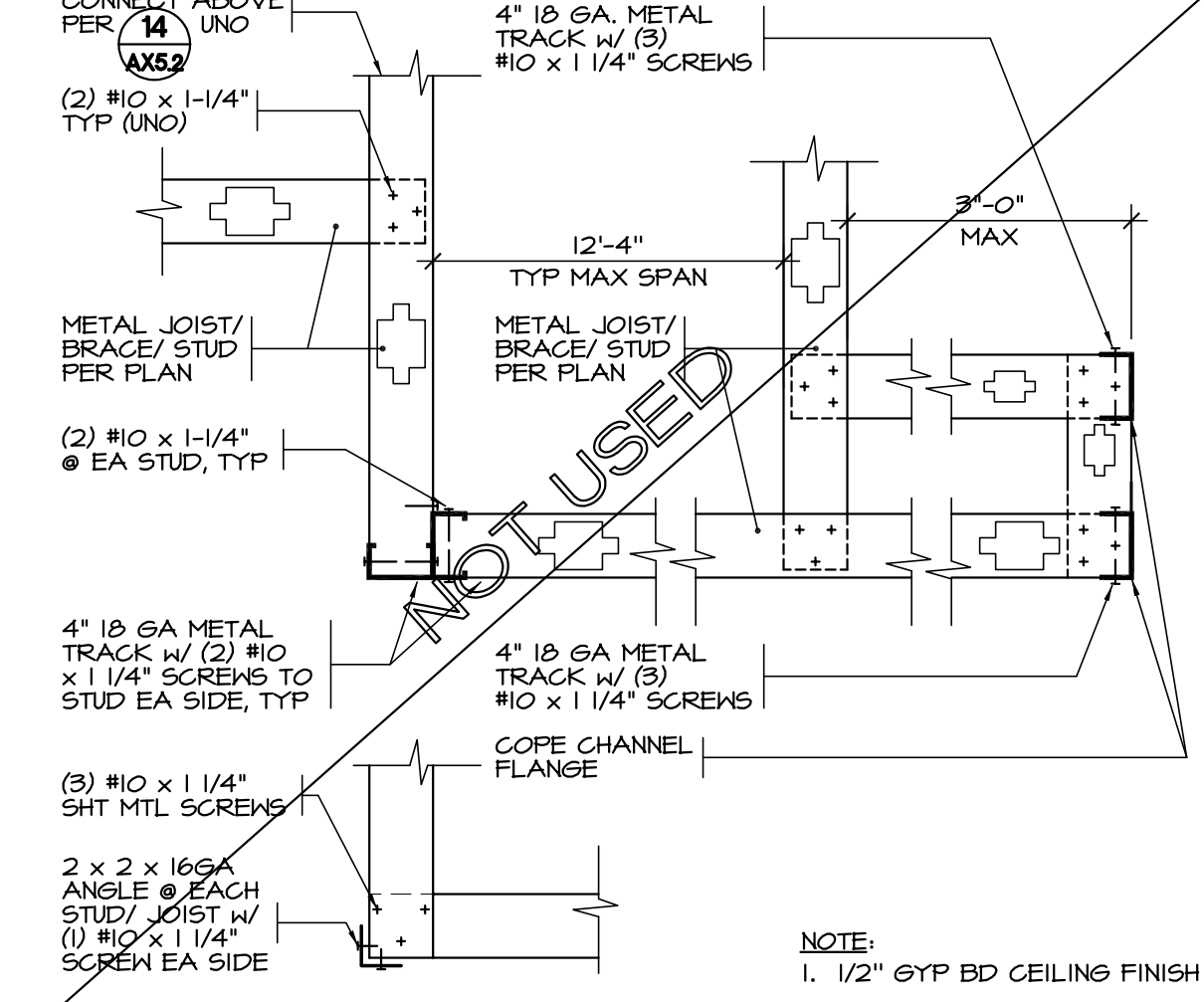
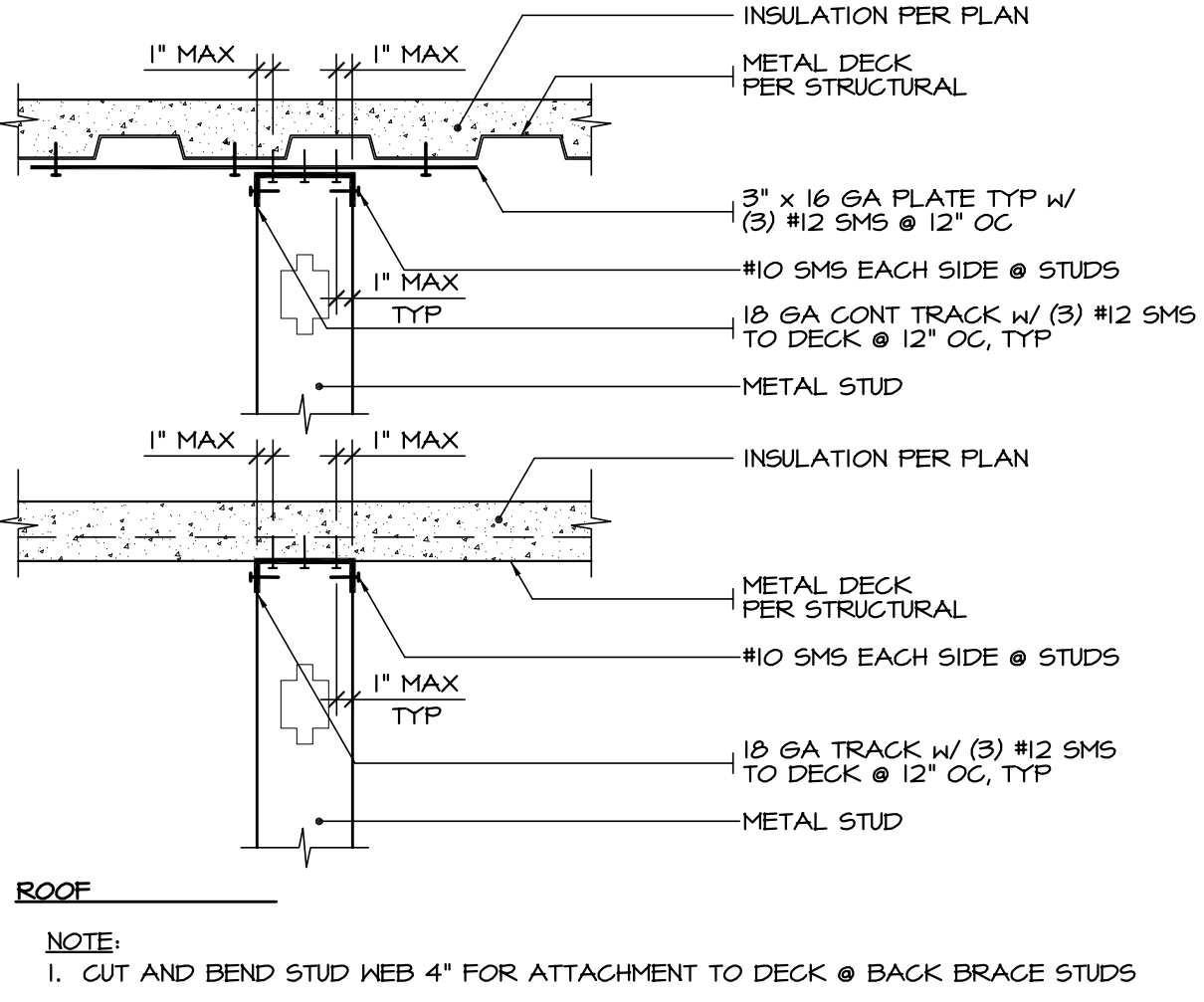
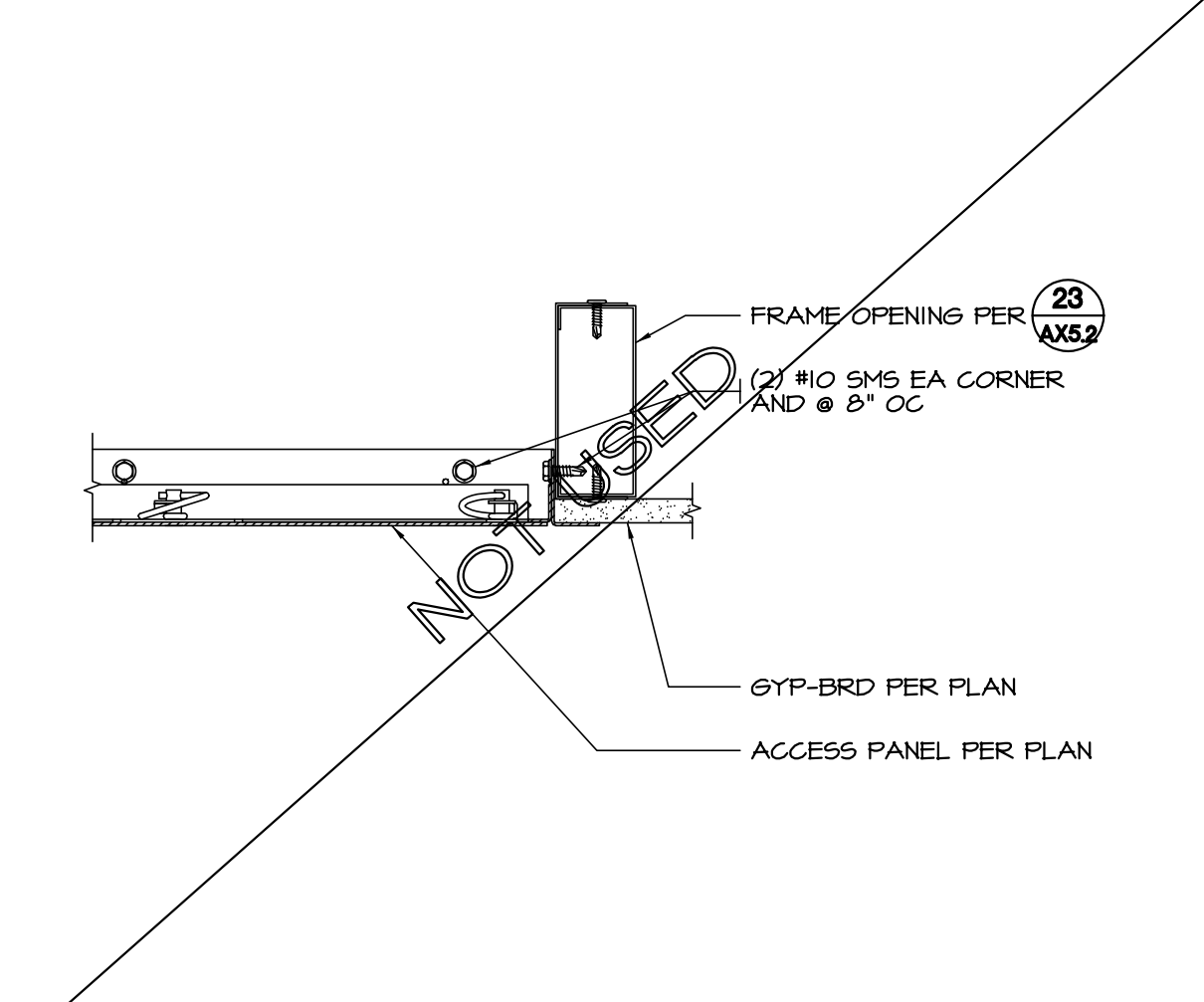
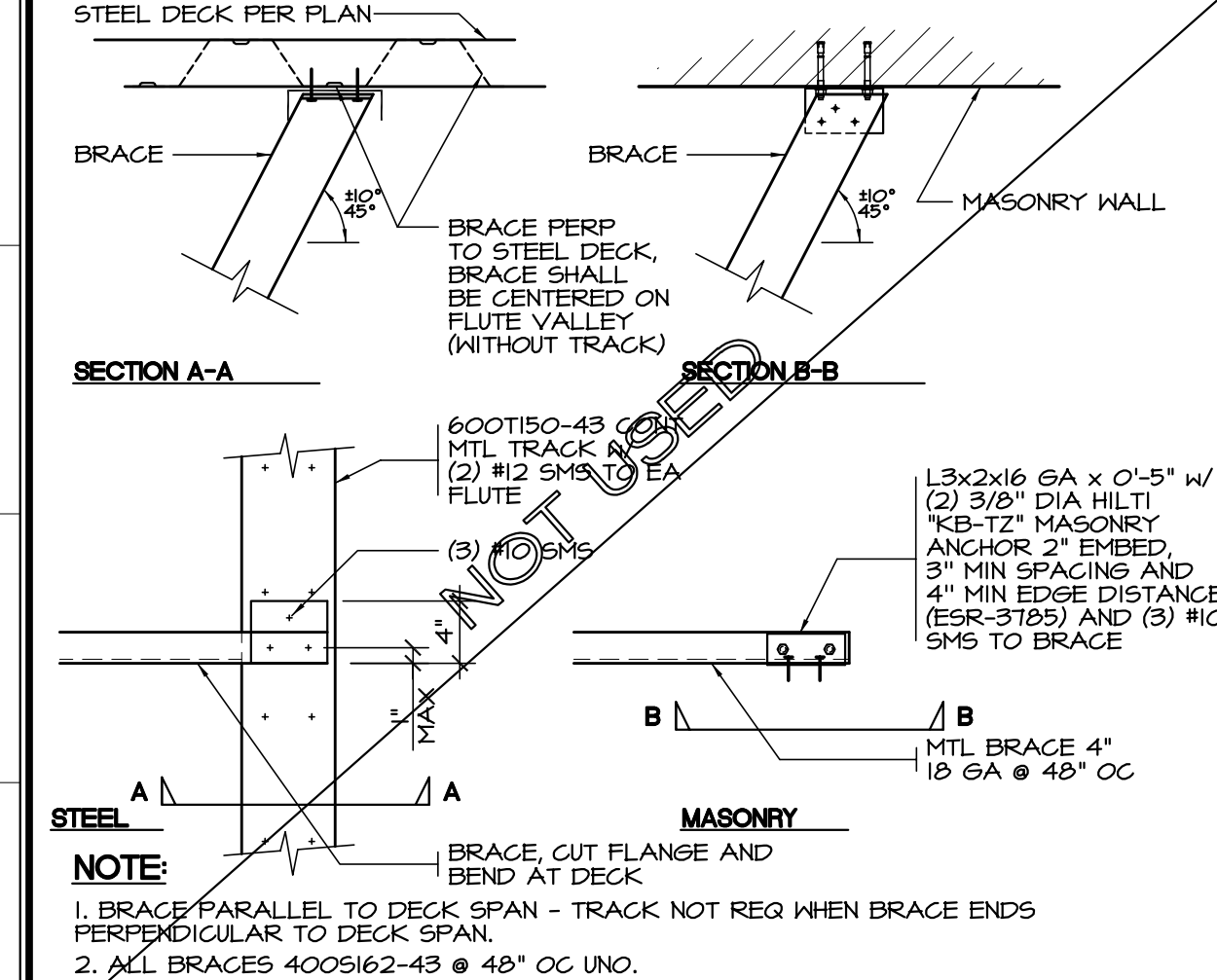
TYPICAL NON-BRG WALL SCALE: NTS 10

TYPICAL BRIDGING SCALE: NTS 11

METAL CEILING JOIST TO METAL WALL SCALE: 1" = 1'-0" 12

METAL CEILING JOIST TO CMU WALL SCALE: 1" = 1'-0" 13

CEILING JOIST MID-SPAN SUPPORT SCALE: 1" = 1'-0" 14



TYPICAL DIAGONAL BRACE SCALE: NTS 15

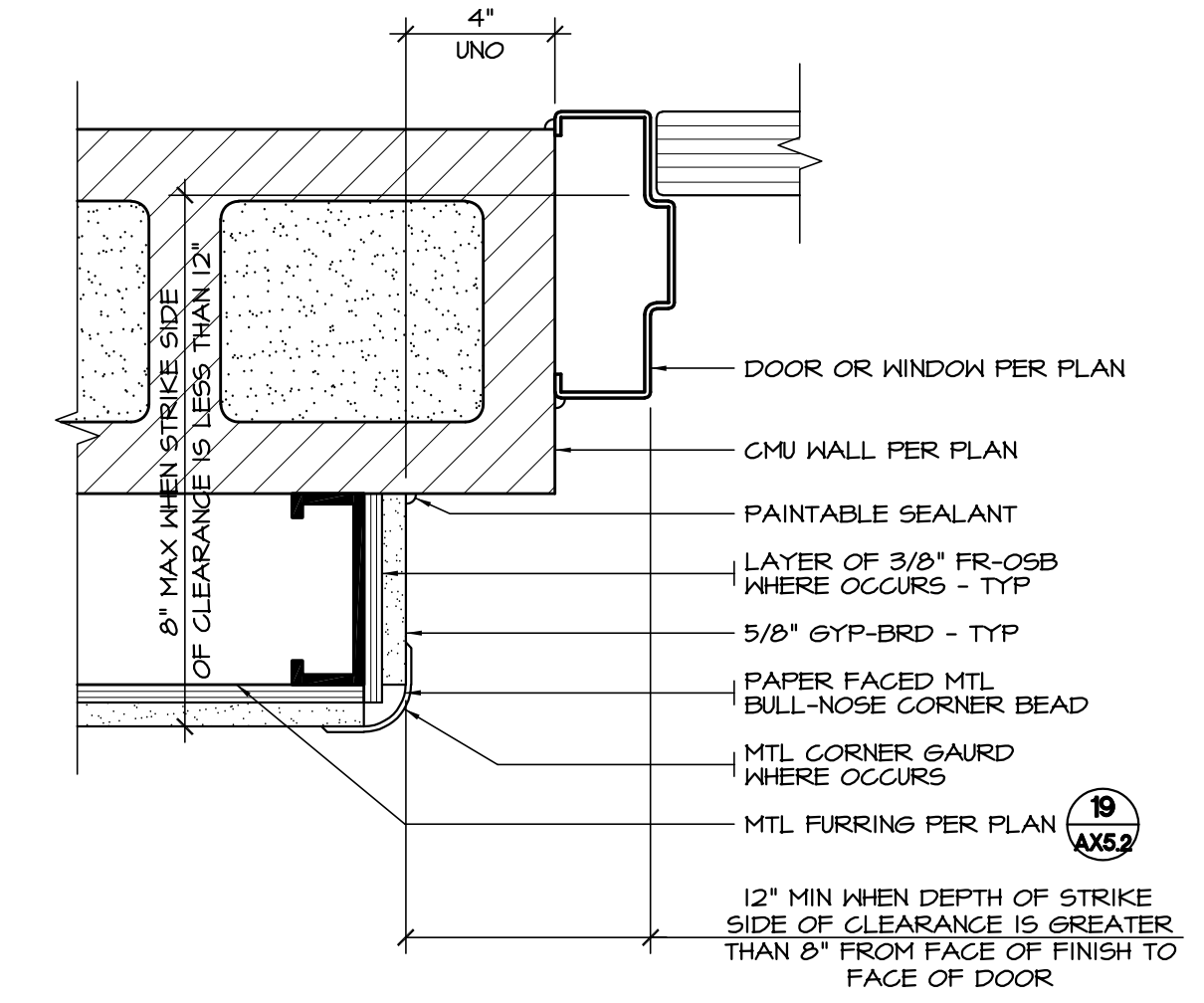
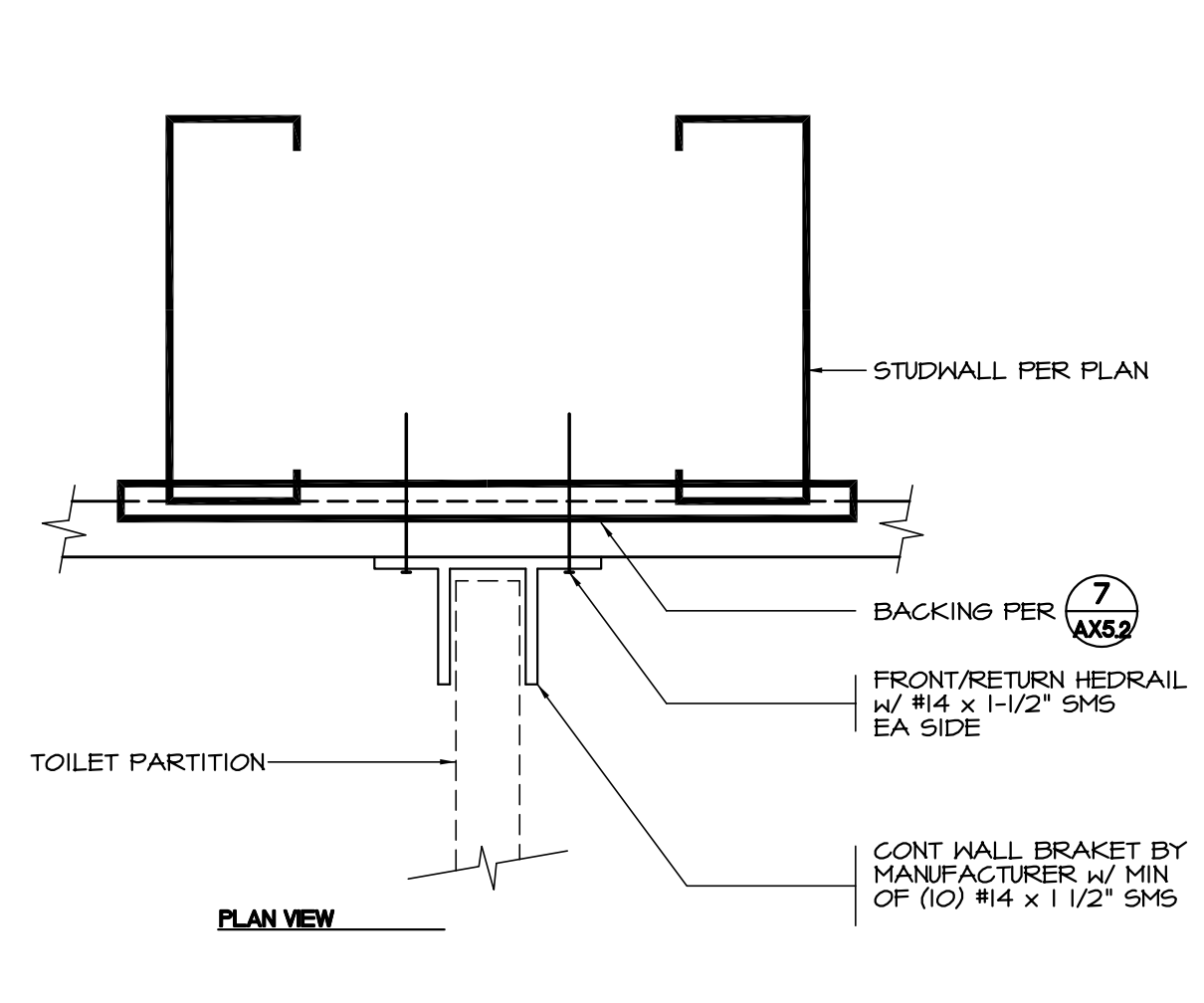
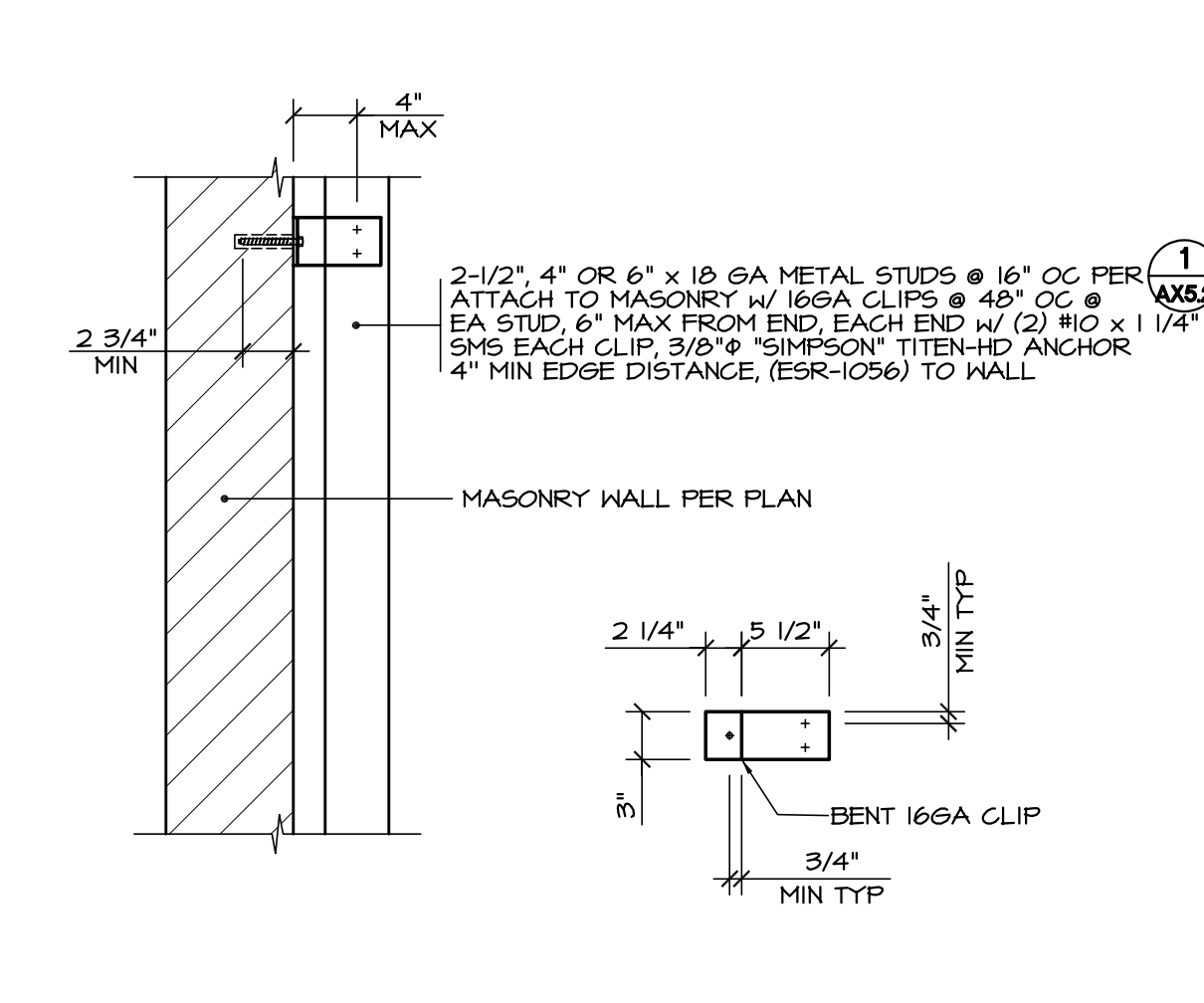
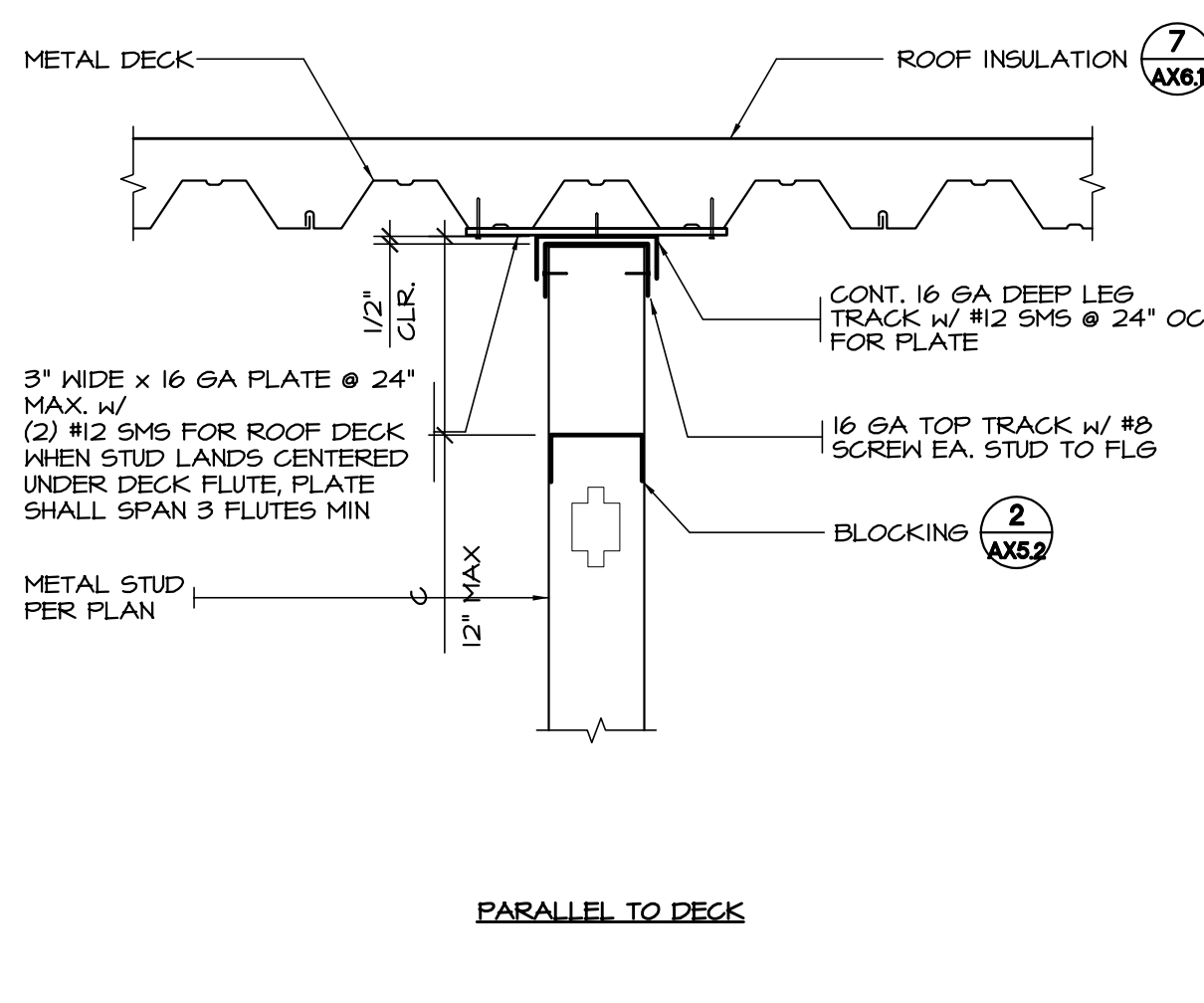
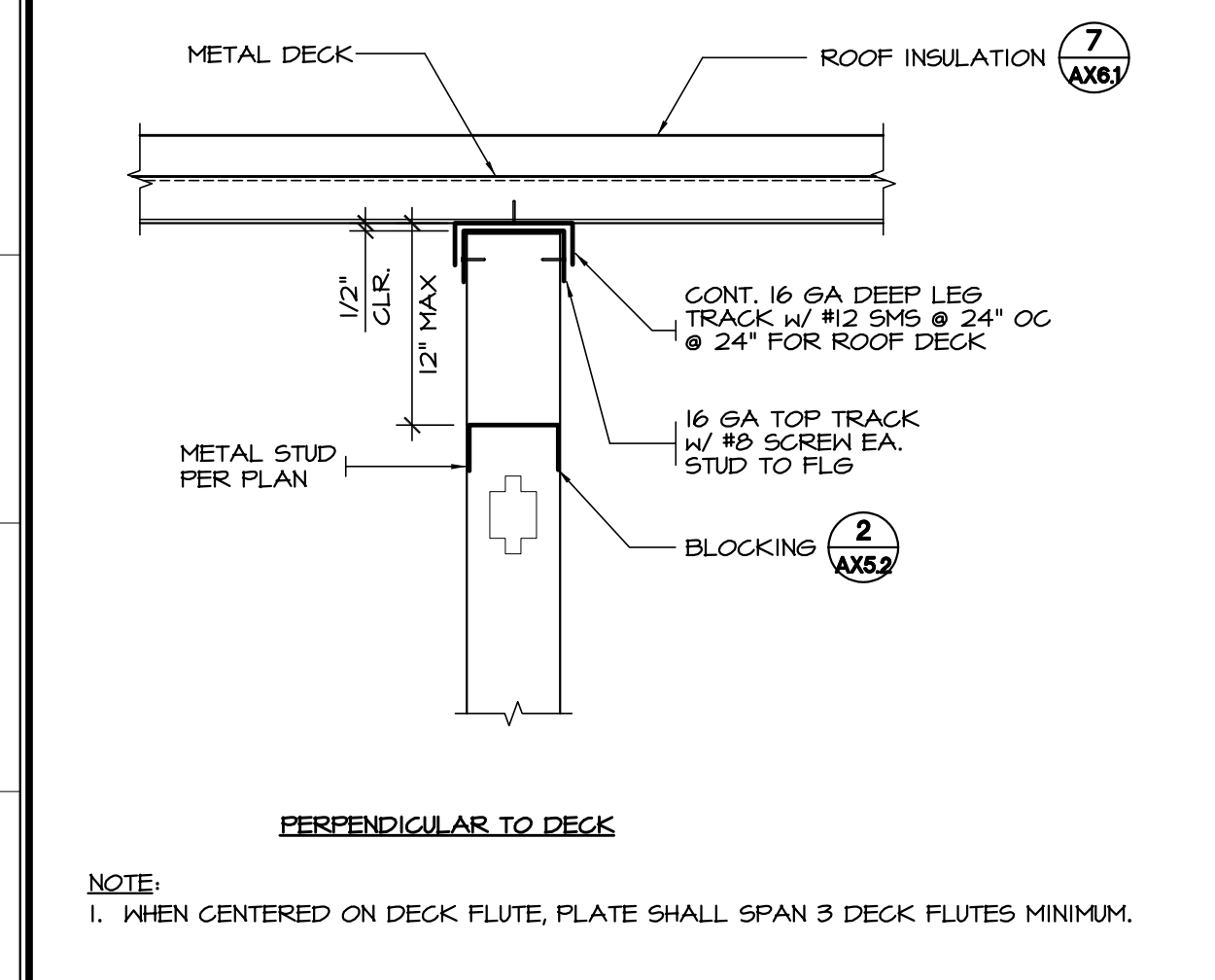
CEILING ACCESS PANEL SCALE: NTS 16

TYP SUSP METAL FRAMING TOP SCALE: 1" = 1'-0" 17

TYPICAL SOFFIT FRAMING SCALE: 1" = 1'-0" 22

TYPICAL INTERRUPTED CEILING JOIST SCALE: NTS 23

TYPICAL INTERRUPTED CEILING JOIST SCALE: NTS 24



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Project Title		Document Date	Project Number
IMPERIAL VALLEY COLLEGE RESTROOM/CONCESSION BUILDING		10-14-22	22-091V
Sheet Title		Date Last Revised	Sheet Number
NON-BEARING METAL FRAMING			AX52

TYP INTERIOR METAL STUD WALL TOP CONNECTION SCALE: 3/4" = 1'-0" 18

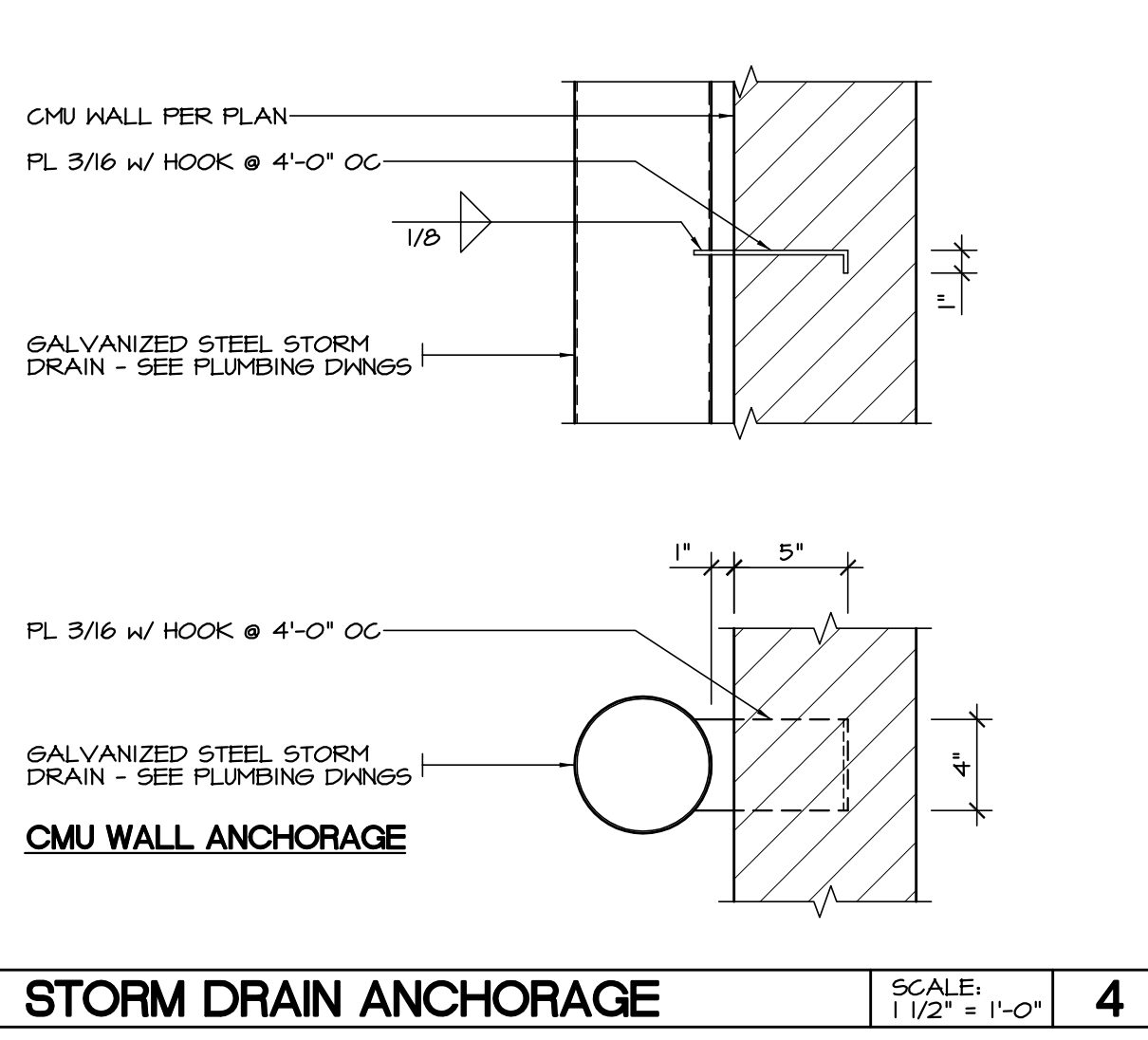
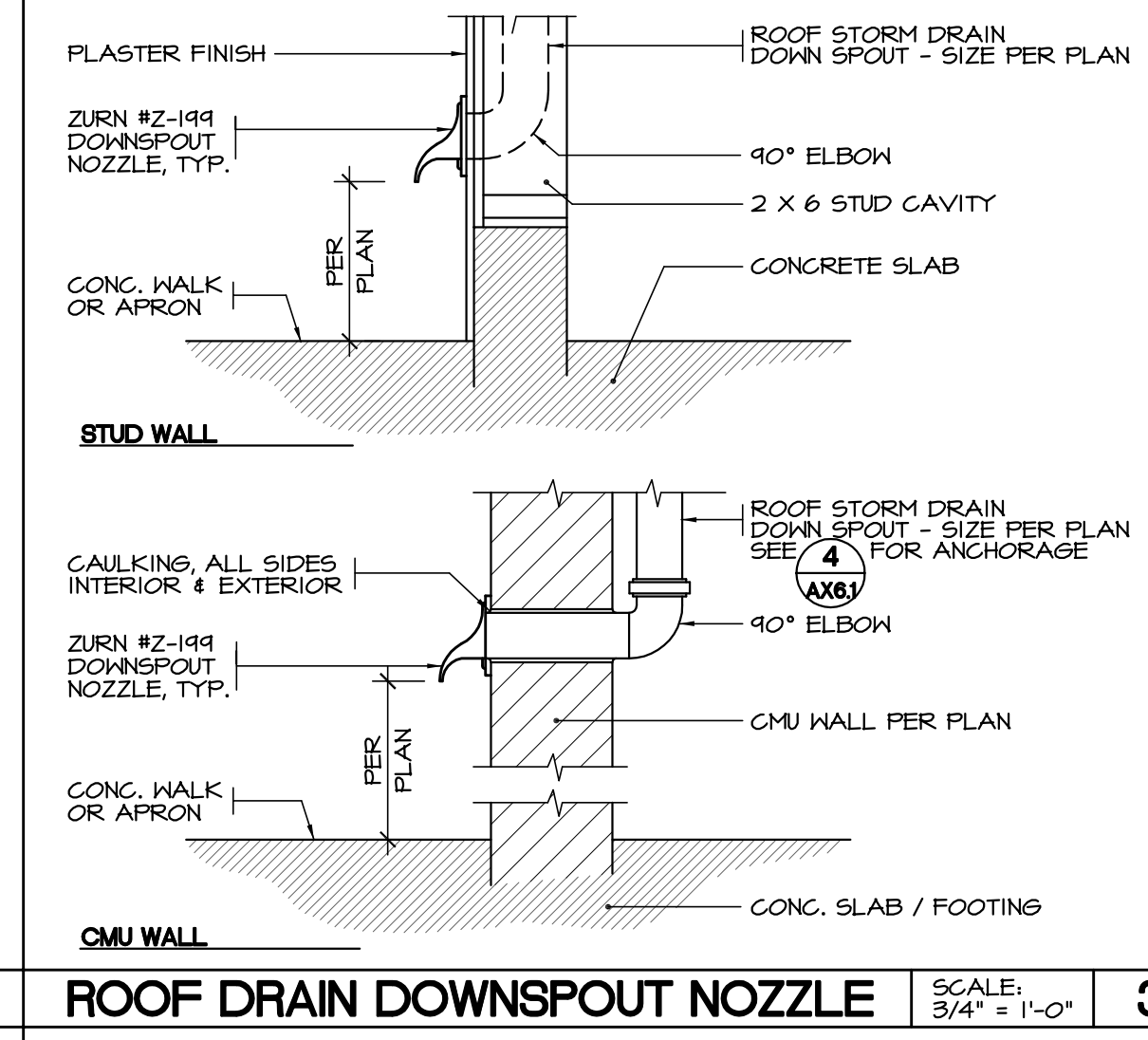
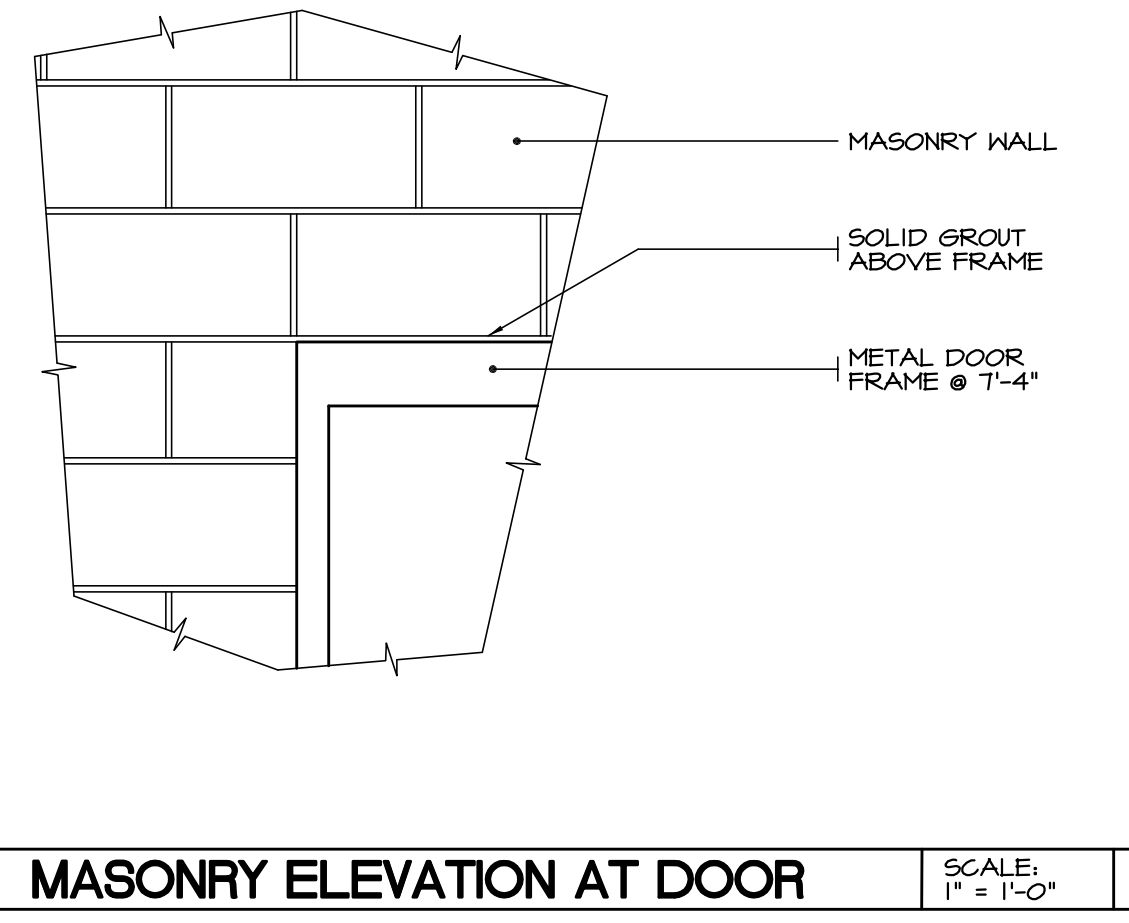
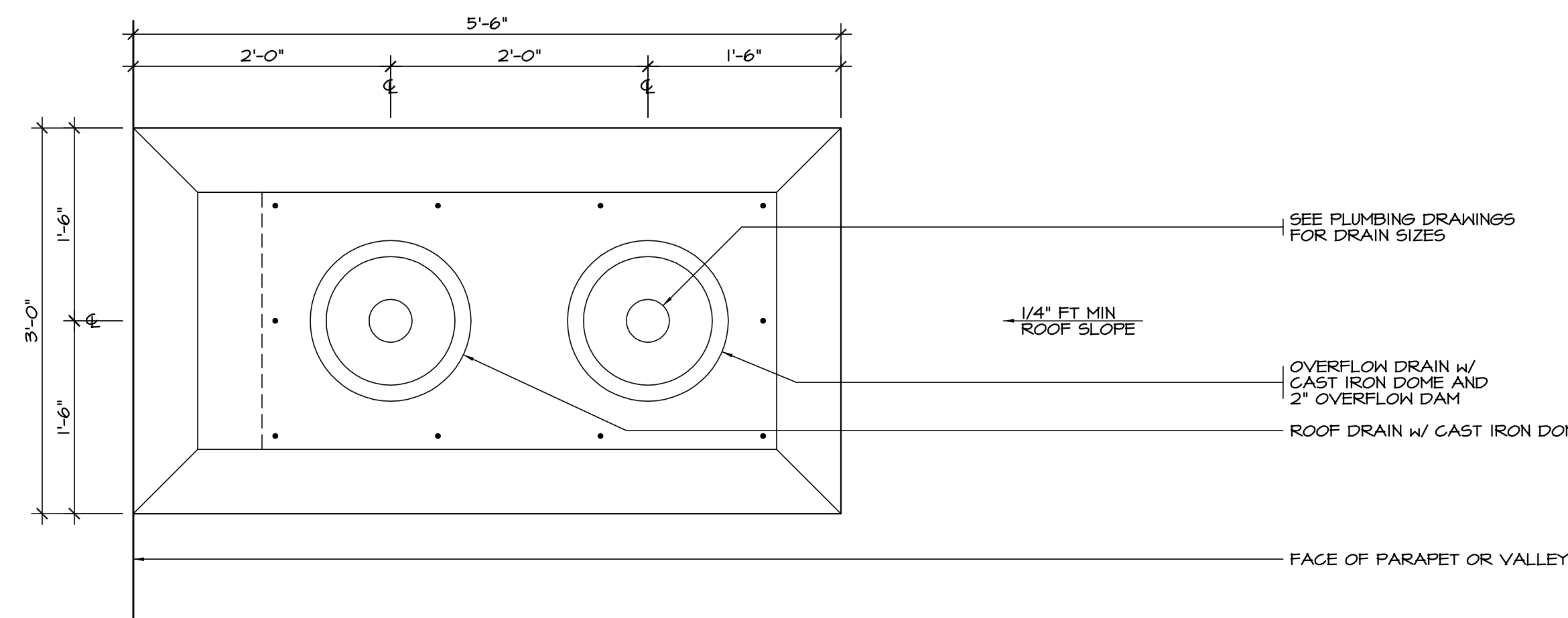
METAL WALL FURRING SCALE: 1" = 1'-0" 19

TOILET PARTITION SUPPORT SCALE: 3/4" = 1'-0" 20

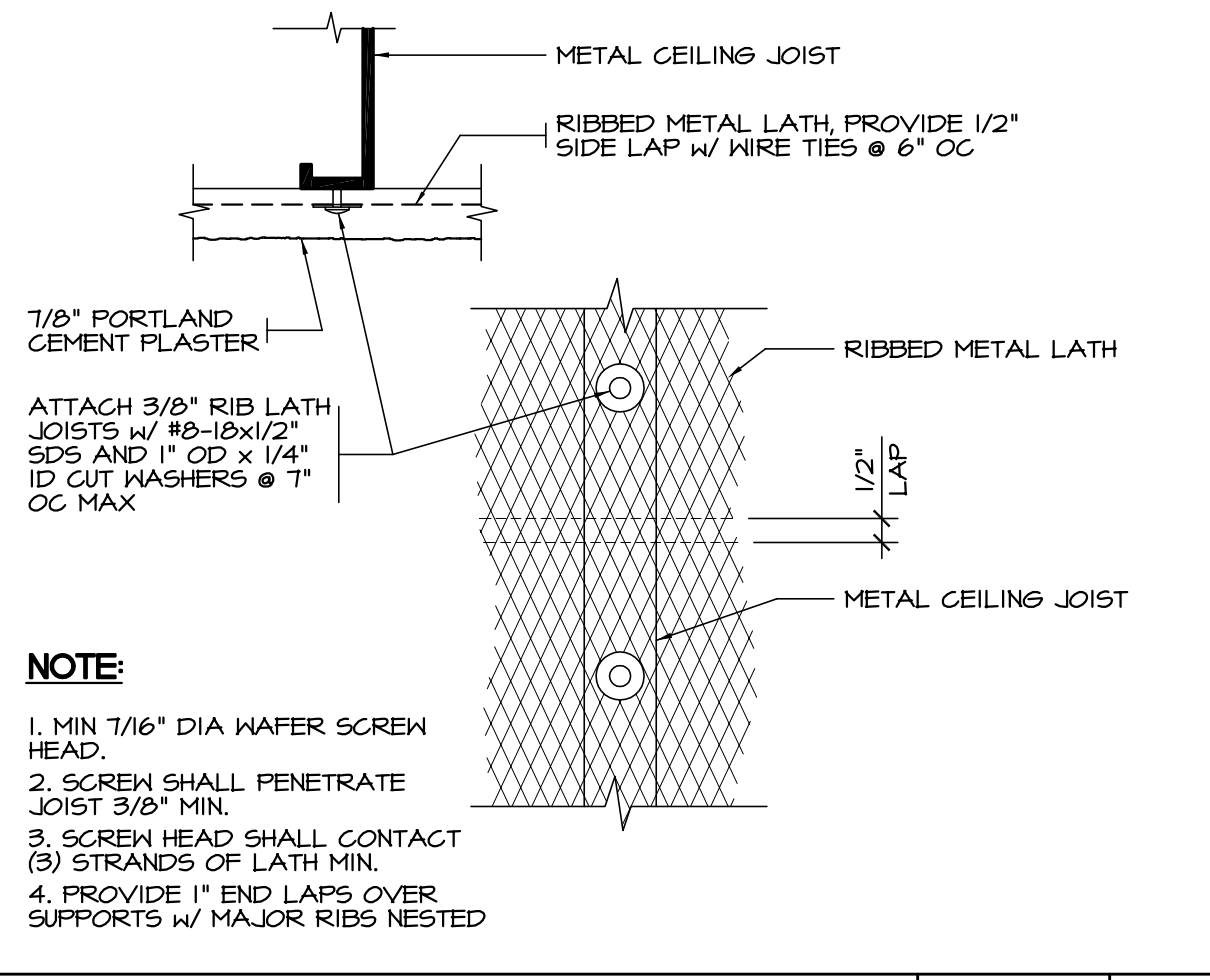
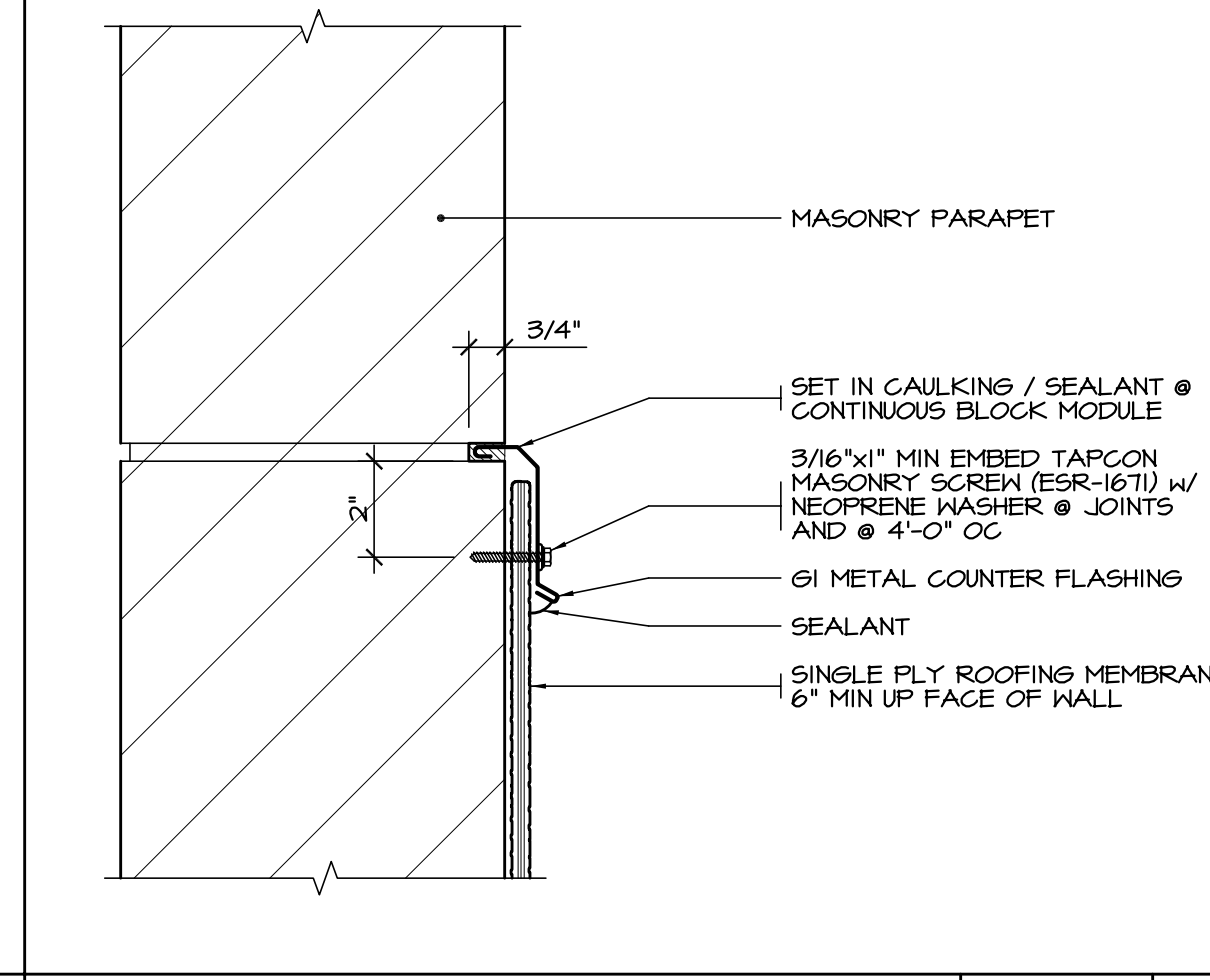
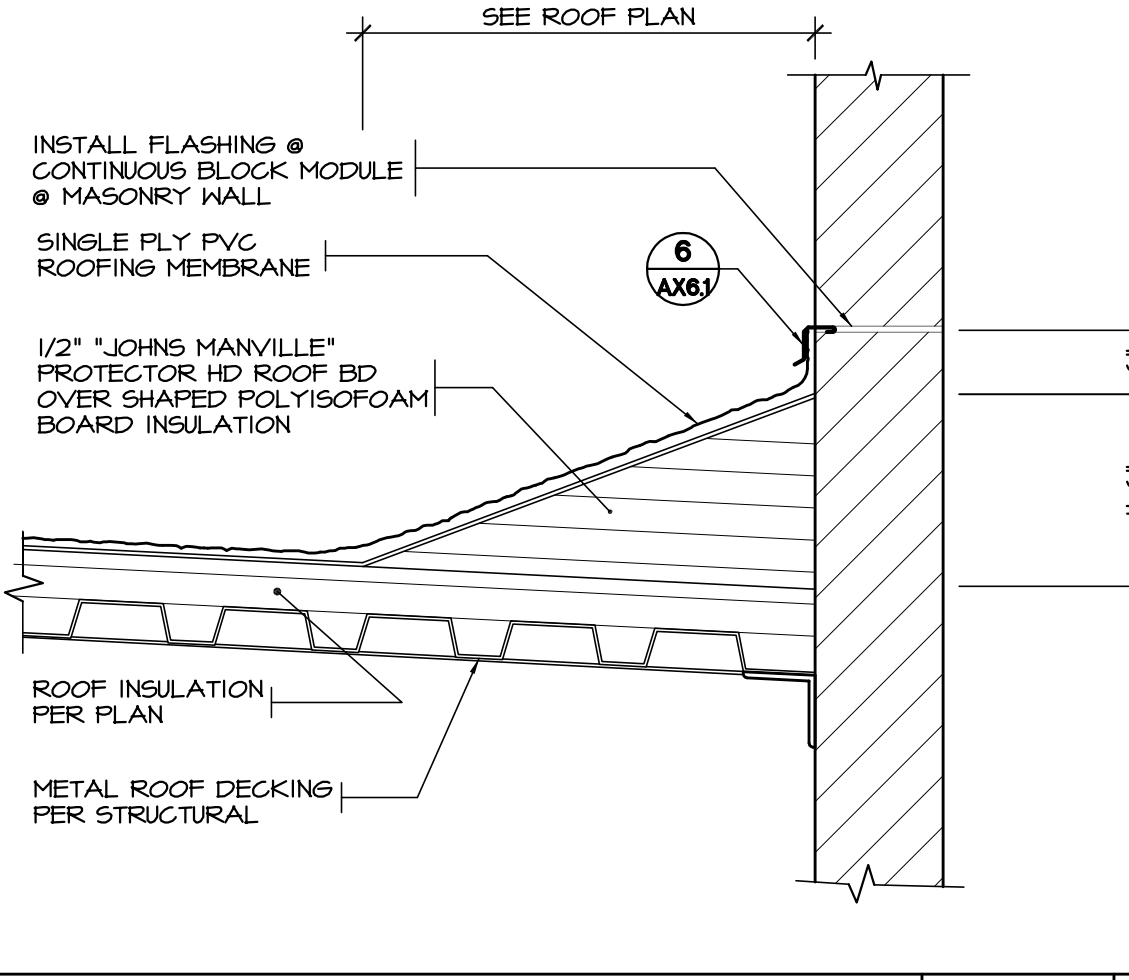
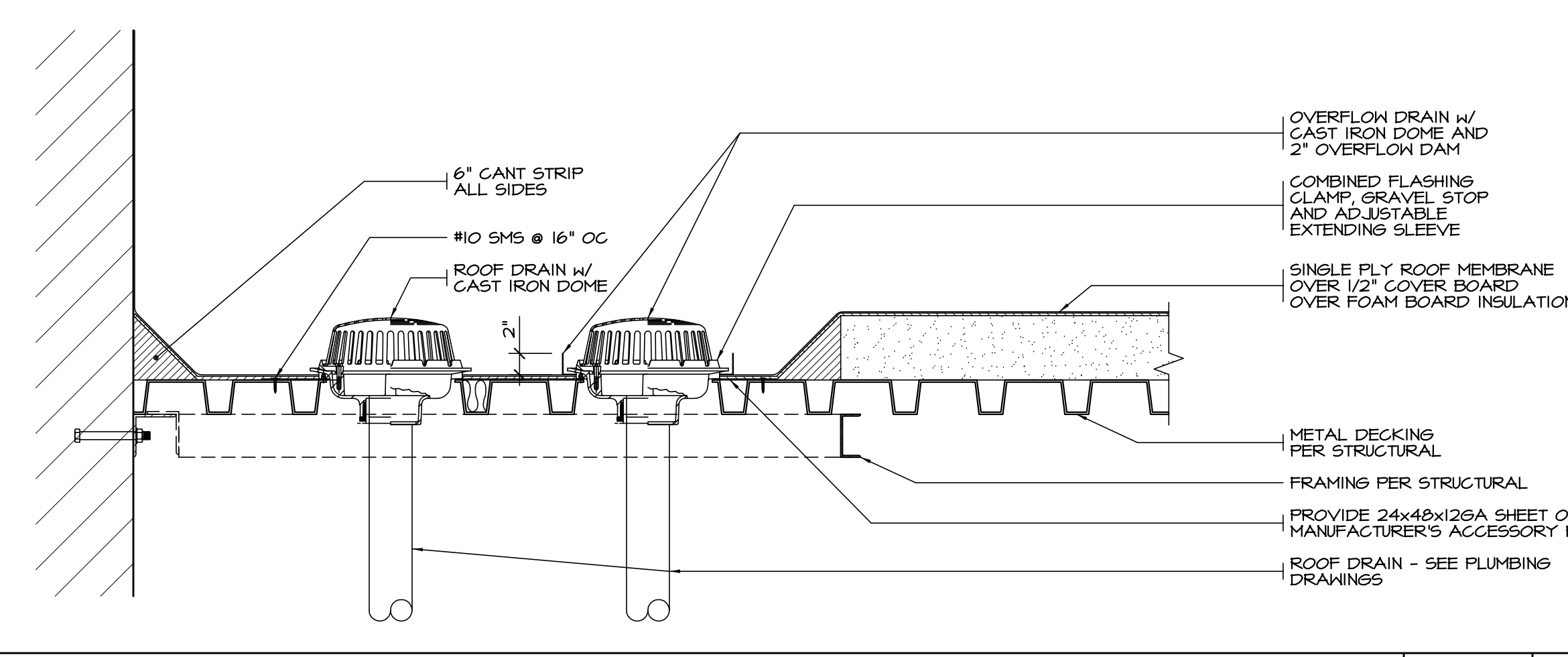
FURRING AT CMU OPENING SCALE: 3/4" = 1'-0" 21

FURRING AT CMU OPENING SCALE: 3/4" = 1'-0" 21

FURRING AT CMU OPENING SCALE: 3/4" = 1'-0" 21



APPROVALS



ROOF DRAIN AND OVERFLOW

1

CRICKET AT HIGH ROOF

5

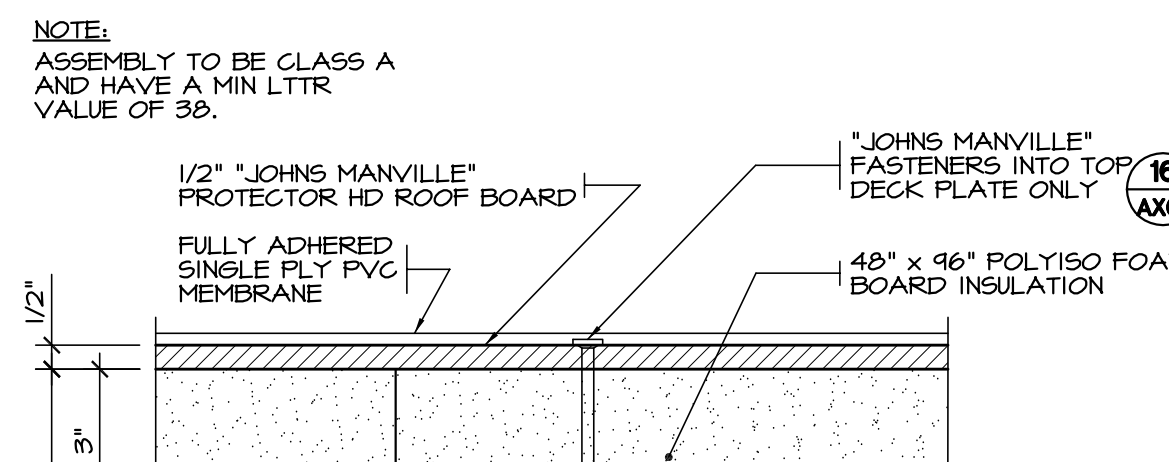
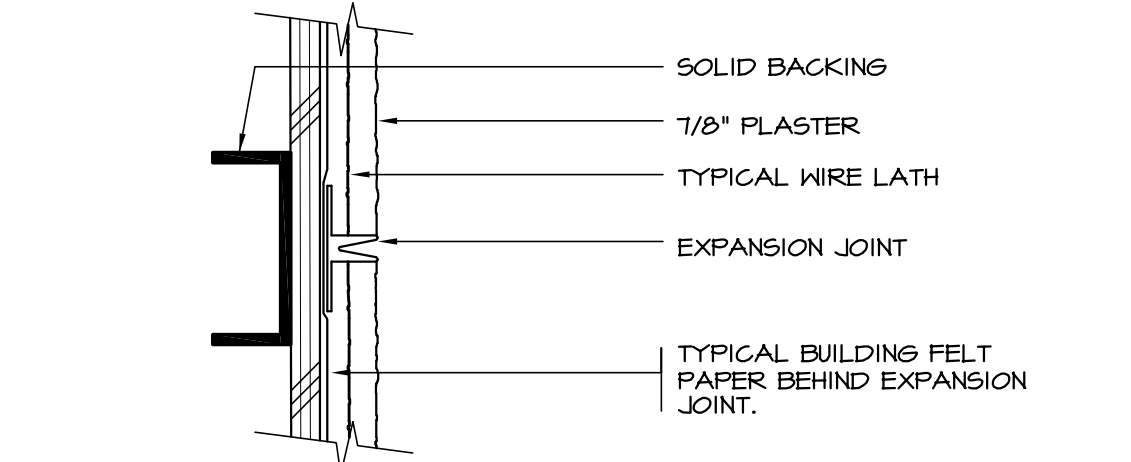
FLASHING - PVC TO CMU WALL

6

PLASTER LATH AT CEILING

7

8

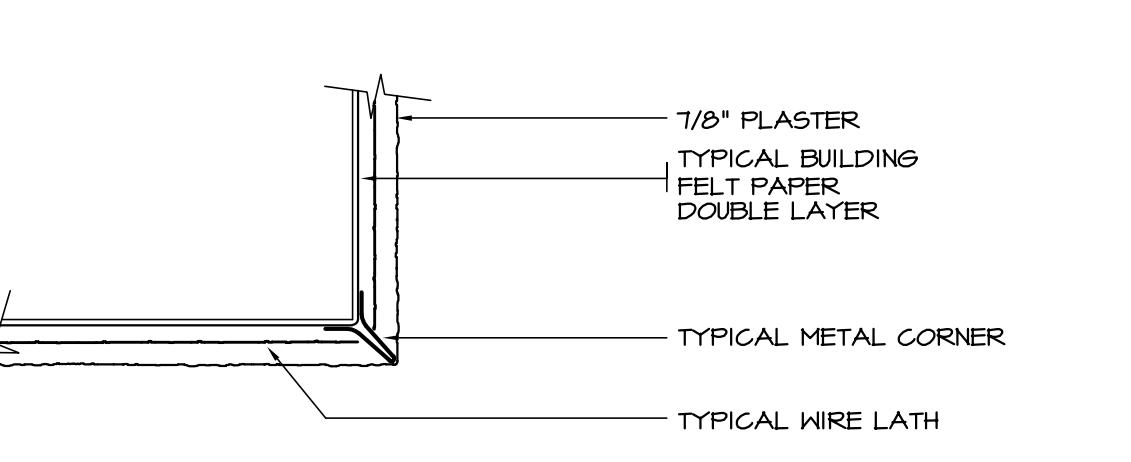


PLASTER EXPANSION JOINT

9

ROOFING ASSEMBLY - INSULATED

11



PLASTER CORNER

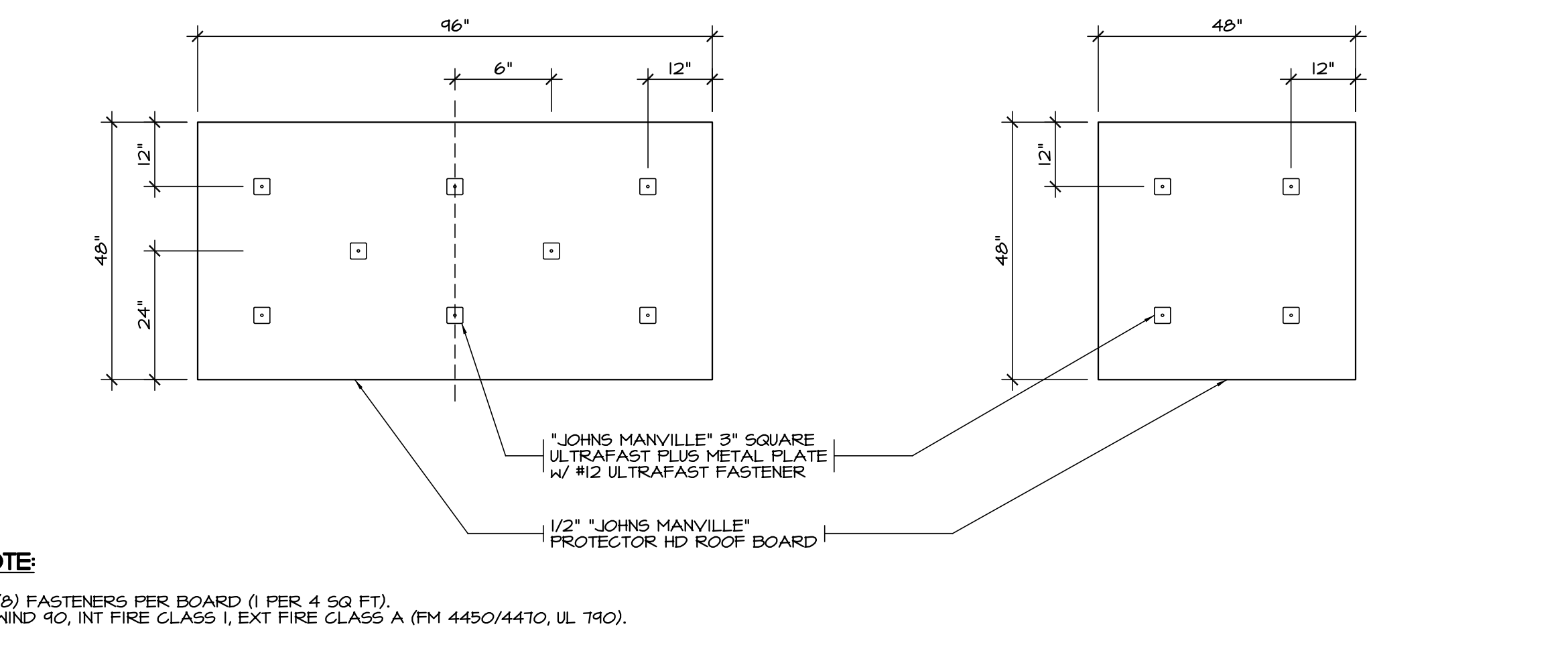
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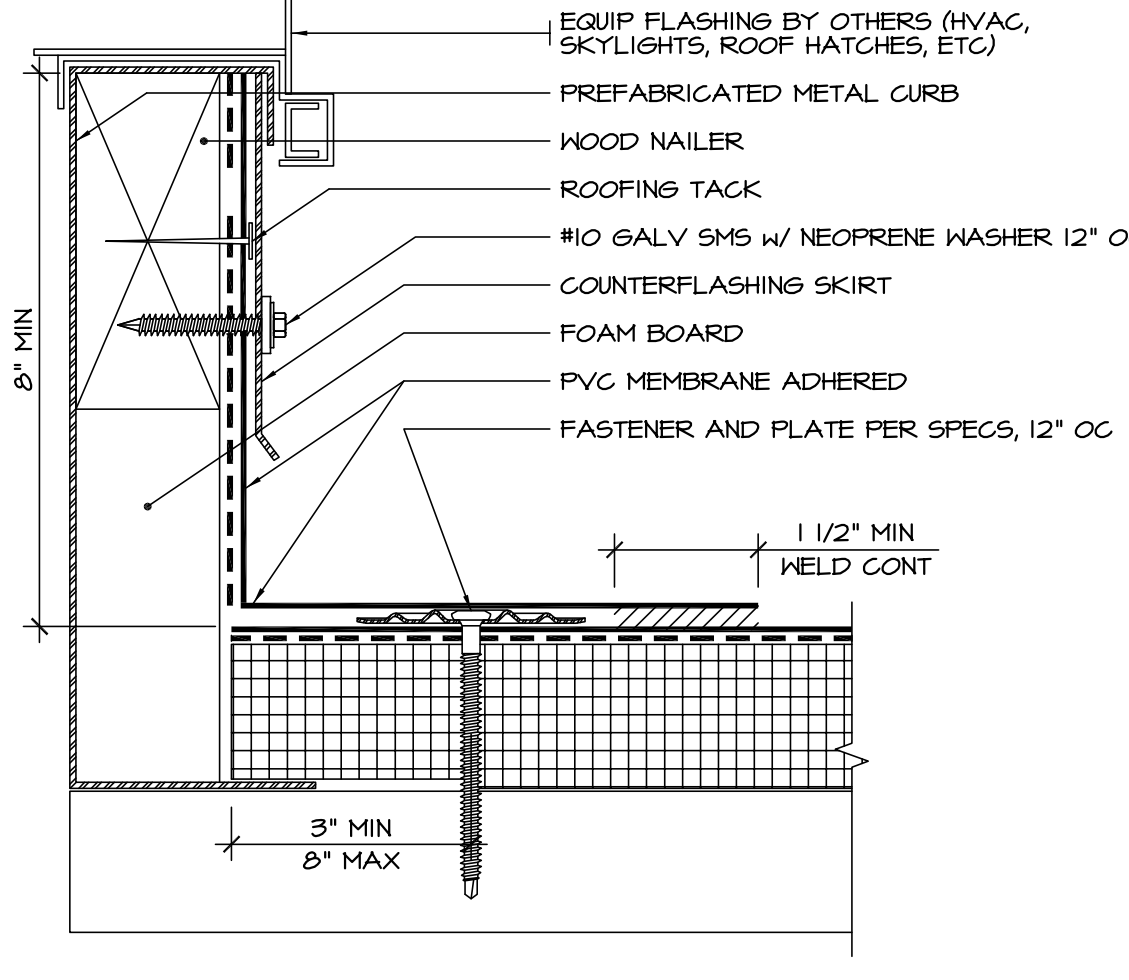
14

15



COVER BOARD FASTENER PATTERN

16



METAL CURB FLASHING

17

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Project Title
**IMPERIAL VALLEY COLLEGE
 RESTROOM/CONCESSION BUILDING**

Sheet Title
EXTERIOR ARCHITECTURAL DETAILS

	Document Date 04-01-22	Project Number 22-091V
	Date Last Revised	Sheet Number AX6.1

DESIGN BASIS:

CODE: 2019 C.B.C. (CALIFORNIA BUILDING CODE, CCR, TITLE 24, PART 2) BASED ON 2018 IBC

GRAVITY LOADS: 1. ROOF LIVE LOAD 20 P.S.F. (REDUCIBLE)

WIND LOADS: BASIC WIND SPEED (3-SECOND GUST) Vult = 98 MPH, Vstd = 76 MPH

ULTIMATE WIND PRESSURES qh((Gcp)-(ccp)):

Kz1=1.0, Kd=0.85, Kh=0.90, Ke=1.0, Qh=18.8 PSF

COMPONENTS AND CLADDING (ASCE 7-16, CHAPTER 30, PART 1): WALLS: 30.3-1

COMPONENTS AND CLADDING, COVERED WORK AREA (ASCE 7-16, SECTION 30.11): ROOF: FIGURE 30.11-1A

SEISMIC DESIGN CRITERIA:

SEISMIC IMPORTANCE FACTOR, Ie 1.0, SEISMIC RISK CATEGORY II, MAPPED SPECTRAL RESPONSE ACCELERATION, Ss 2.209

CONCESSION STAND

BASIC SEISMIC-FORCE-RESISTING SYSTEM SPECIAL REINFORCED MASONRY SHEARWALLS

GENERAL NOTES:

- 1. THE PROJECT SPECIFICATIONS ARE A PART OF THE CONTRACT DOCUMENTS.
2. THE STRUCTURAL DRAWINGS ARE TO BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS BY: SANDERS, INC. ARCHITECTURE / ENGINEERING
3. THE CONTRACTOR SHALL REVIEW EXISTING CONDITIONS ON THE SITE DURING THE BIDDING...

REINFORCING STEEL:

- 1. ALL REINFORCING STEEL SHALL BE PLACED IN CONFORMANCE WITH THE C.B.C., AND THE "MANUAL OF STANDARD PRACTICE" BY THE C.R.S.I. OR AS MODIFIED BY THE CONSTRUCTION DOCUMENTS.
2. REINFORCING BARS SHALL CONFORM TO A.S.T.M. A-615, GRADE 60, REINFORCING BARS THAT ARE TO BE WELDED SHALL CONFORM TO A.S.T.M. A-706, GRADE 60.

CONCRETE:

- 1. ALL CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 318-14 AND ACI 301 (LATEST EDITION), EXCEPT AS MODIFIED BY THE SUPPLEMENTAL REQUIREMENTS CONTAINED HEREIN OR SHOWN ON THE DRAWINGS.
2. ALL CONCRETE SHALL BE 150 P.C.F. HARDROCK, MIXED PER A.S.T.M. C-94, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,500 P.S.I. AT 28 DAYS...

Table with 2 columns: Item, Value. Includes FOOTINGS AND SLABS CAST AGAINST EARTH OR LANDSCAPE WATER, WALLS, COLUMN TIES, SLABS (#11 AND SMALLER).

- 19. CONCRETE CURING: TYPICALLY REQUIRED FOR 10 DAYS WITH ADHERENCE TO THE RECOMMENDATIONS OF ACI 308.
20. FUSION WELDING IS NOT PERMITTED UNLESS APPROVED BY THE ENGINEER OF RECORD AND DSA.

MASONRY:

- 1. MASONRY UNITS SHALL BE MEDIUM WEIGHT WITH A COMPRESSIVE STRENGTH OF 2,000 P.S.I., IN ACCORDANCE WITH A.S.T.M. SPECIFICATION C-90, USE OPEN END UNITS AT ALL OPEN ENDED BLOCKS.
2. THE ASSEMBLED MASONRY SHALL HAVE A COMPRESSIVE STRENGTH OF F'm=2,000 P.S.I.

- 14. PROVIDE ONE INCH MINIMUM GROUT COVER ON ALL BOLTS AND PLATES.
15. HORIZONTAL REINFORCING SHALL BE PLACED IN BOND BEAM UNITS.
16. NO PIPES OR DUCTS SHALL BE PLACED IN MASONRY WALLS UNLESS SPECIFICALLY NOTED OR DETAILED.

STEEL:

- 1. FABRICATION AND ERECTION TO CONFORM TO A.I.S.C. LATEST ADOPTED EDITION "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AND "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" EXCEPT AS OTHERWISE SHOWN OR SPECIFIED.
2. QUALIFIED AND CERTIFIED WELDERS SHALL BE USED FOR ALL WELDING. WELDING TO BE PERFORMED IN THE SHOP OF BOTH I.A.S. AND A.I.S.C. CERTIFIED FABRICATOR.

WELDING:

- 1. ALL WELDING SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF THE AMERICAN WELDING SOCIETY CODE D1.1. (LATEST ADOPTED EDITION.)
2. ALL WELDING SHALL BE DONE BY AWS CERTIFIED WELDERS.
3. ALL ELECTRODES FILLER MATERIAL SHALL BE A MINIMUM OF E70.

METAL DECKING:

- 1. ALL ROOF METAL DECKING AND ACCESSORIES SHALL BE FORMED FROM STEEL SHEETS CONFORMING TO A.S.T.M. A 1063 OR 653 GRADE A OR HIGHER SPECIFICATIONS.
2. DECKS SHALL BE GALVANIZED IN ACCORDANCE WITH A.S.T.M. A 653 COMMERCIAL COATING CLASS G-60 OR G-90.

COLD-FORMED METAL FRAMING:

- 1. COLD-FORMED STEEL CONSTRUCTION SHALL CONFORM TO THE "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", BY THE AMERICAN IRON AND STEEL INSTITUTE (AISI), AISI S100-16.
2. COLD-FORMED METAL FRAMED SHALL BE GALVANIZED TO G60 MINIMUM AND CONFORM TO ASTM A-653 PER AISI S200-12.

FOUNDATION:

- 1. REMOVE EXISTING SOIL TO A MINIMUM OF 3' BELOW FINISHED PAD ELEVATION (AT LEAST 18" BELOW THE LOWEST PAD OR CONTINUOUS FOOTING, TO A DISTANCE OF 5' BEYOND THE BUILDING OR STRUCTURE AND AT LEAST 1' BEYOND SIDEWALKS LOCATED NEXT TO THE BUILDING.
2. ALLOWABLE SOIL PRESSURE: FOOTING TYPE STATIC BEARING PRESSURE, SPREAD FOOTING 2,000 P.S.F., GRADE BEAMS 2,000 P.S.F., PASSIVE SOIL RESISTANCE 300 P.S.F.

PAD FOOTING SCHEDULE

3'-0" SQU. X 2'-0" THK. WITH (4) #5 E.W. T AND B

APPROVALS

Blank area for approvals.

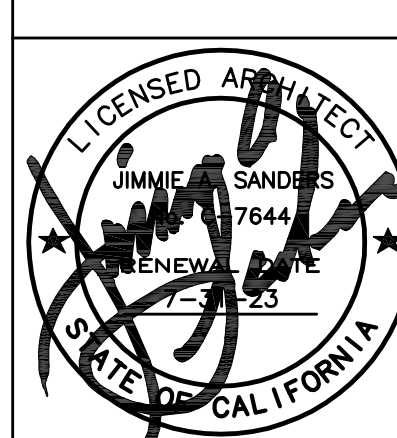
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760 353 5440 FAX 760 353 5442

Project Title: IMPERIAL VALLEY COLLEGE RESTROOM/CONCESSION BUILDING

Sheet Title:

TYPICAL NOTES

Table with 3 columns: Document Date (04-01-22), Date Last Revised, Project Number (22-091V), Sheet Number (SO.1)



EXPANSION AND ADHESIVE ANCHORS:

*CONCRETE ADHESIVE ANCHORS SHALL BE BY "HILTI" HIT HY-200 ADHESIVE ANCHOR SYSTEMS OR APPROVED EQUAL (ESR-3187). MASONRY ADHESIVE ANCHORS SHALL BE "HILTI" HIT HY-270 (ESR-4143).

1. CONCRETE EXPANSION ANCHORS SHALL BE BY "HILTI" KB-TZ2 (ESR-4266) OR AN APPROVED EQUAL. ALL ANCHORS AND FASTENERS SHALL HAVE DESIGN LOADS IN NORMAL WEIGHT OR LIGHTWEIGHT CONCRETE. MASONRY EXPANSION ANCHORS SHALL BE BY "HILTI" KWIKBOLT-3 (ESR-1385) OR AN APPROVED EQUAL. ANCHORS SHALL BE PROOF LOAD TESTED BY APPLYING A TEST LOAD AS FOLLOWS: (SEE ITEM 6 FOR TESTING FREQUENCY)

FOR ANCHORS IN NORMAL WEIGHT CONCRETE (f'c=4,500 psi)

ANCHOR DIAMETER (IN.)	EXPANSION (KB-TZ2)		ADHESIVE (HIT HY-200)	
	EMB.	TORQUE (FT-LB)	EMB.	TORQUE (FT-LB)
3/8	2 1/2"	30	3 1/2"	2600
1/2	3 1/2"	50	4 1/4"	4200
5/8	4"	40	5	6200
3/4	4 3/4"	110	6 5/8"	10000

NOTE:
EDGE DISTANCE SHALL BE EQUAL TO OR GREATER THAN CRITICAL EDGE DISTANCE IN ICC REPORT FOR ANCHORS IN FULLY GROUTED CMU (f'm=2,000 psi) SPECIAL INSPECTION REQUIRED

ANCHOR DIAMETER (IN.)	EXPANSION (KB-3)		ADHESIVE (HIT HY270)	
	EMB.	TORQUE (FT/LB)	EMB.	TORQUE (FT/LB)
1/4	2"	4	-	-
3/8	2 1/2"	15	3 1/2"	1984
1/2	3 1/2"	25	4 1/4"	3093
5/8	4"	65	5	4033
3/4	4 3/8"	120	6 5/8"	5030

NOTE:
MINIMUM EDGE DISTANCE FROM EDGE OF WALL = 4in.

USE THE FOLLOWING SPECIAL INSPECTION TORQUE VALUES FOR SCREW ANCHORS:

ANCHOR TYPE / DIAMETER (N.)	EMBED.	ICC REPORT	BASE MATERIAL	TORQUE (FT-LB)
1/4" DIA. HILTI "KH EZ"	1-5/8"	ESR-3056	CMU	21
3/8" DIA. HILTI "KH EZ"	3 1/4"	ESR-3056	CMU	22
3/8" DIA. SIMPSON "TITEN HD"	2 3/4"	ESR-2713	CONCRETE	50

2. "APPROVED EQUAL" SUBSTITUTIONS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO INSTALLATION. CDD APPROVED BY THE DIVISION OF THE STATE ARCHITECT WILL BE REQUIRED FOR ANY SUBSTITUTIONS.
3. THE TESTING OF EXPANSION AND ADHESIVE ANCHORS IN HARDENED CONCRETE SHALL CONFORM TO CBC SECTION 1910A.5
4. EXPANSION AND ADHESIVE ANCHOR INSTALLATION SHALL BE INSPECTED BY A SPECIAL INSPECTOR SPECIFICALLY APPROVED BY DSA FOR THAT PURPOSE.
5. EXPANSION AND ADHESIVE ANCHOR TESTING SHALL BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR AND SHOULD OCCUR 24 HOURS MINIMUM AFTER INSTALLATION OF THE SUBJECT ANCHORS.
6. TEST QUANTITY OF EXPANSION AND ADHESIVE ANCHORS AS NOTED BELOW
- | | |
|--|---------------|
| APPLICATION: | QUANTITY: |
| STRUCTURAL | 100% OF BOLTS |
| SILL PLATE | 10% OF BOLTS |
| NON-STRUCTURAL (EQUIPMENT ANCHORAGE, ETC.) | 50% OF BOLTS |
7. THE TEST LOADS SHALL BE APPLIED BY DIRECT PULL WITH A HYDRAULIC JACK, OR A CALIBRATED TORQUE WRENCH. SEE TABLES ABOVE FOR TEST LOADS.
8. THE FOLLOWING CRITERIA SHALL APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS:
- HYDRAULIC RAM METHOD:
THE ANCHOR SHALL HAVE NO OBSERVABLE MOVEMENT AT THE APPLICABLE TEST LOAD APPLIED FOR A MINIMUM OF (15) SECONDS. FOR WEDGE AND SLEEVE TYPE ANCHORS, A PRACTICAL WAY TO DETERMINE OBSERVABLE MOMENT IS THAT THE WASHER UNDER THE NUT BECOMES LOOSE.
- TORQUE WRENCH METHOD:
THE APPLICABLE TEST LOAD MUST BE REACHED WITHIN ONE-HALF (1/2) TURN OF THE NUT.
9. IF ANY ANCHOR FAILS TESTING, TEST ALL ANCHORS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE PASS, THEN RESUME INITIAL TESTING FREQUENCY.

SPECIFICATIONS FOR AUTOMATIC END WELDED STUDS:

- MATERIAL:**
- AUTOMATIC END WELDED STUDS SHALL BE NELSON GRANULAR FLUXFILLED SHEAR CONNECTOR OR ANCHOR STUDS (OR APPROVED EQUAL)
 - STUDS SHALL BE MANUFACTURED OF ASTM A29 GRADES 1010 THRU 1020 COLD ROLLED STEEL.

INSTALLATION:

- THE STUDS SHALL BE AUTOMATICALLY END WELDED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS IN SUCH A MANNER AS TO PROVIDE COMPLETE FUSION BETWEEN THE END OF THE STUD AND THE PLATE. THERE SHOULD BE NO POROSITY OR EVIDENCE OF LACK OF FUSION BETWEEN THE WELDED END OF THE STUD AND THE PLATE. THE STUD SHALL DECREASE IN LENGTH DURING WELDING APPROXIMATELY 1/8" FOR 5/8" AND UNDER, AND 3/16" FOR OVER 5/8" DIAMETER. WELDING SHALL BE DONE ONLY BY QUALIFIED WELDERS APPROVED BY THE WELDING INSPECTOR.

INSPECTION AND TEST:

- INSPECTION, IN ACCORDANCE WITH CBC SECTION 2213A.2 OF ALL THE SHOP AND FIELD WELDING OPERATIONS FOR THE AUTOMATIC END WELDED STUDS SHALL BE MADE BY QUALIFIED WELDING INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT. THE TYPE AND CAPACITY OF THE WELDING EQUIPMENT SHALL BE CHECKED AND APPROVED BY A WELDING INSPECTOR.
- AT THE BEGINNING OF EACH DAY'S WORK, A MINIMUM OF TWO TEST STUD WELDS SHALL BE MADE WITH THE EQUIPMENT TO BE USED TO METAL WHICH IS THE SAME AS THE ACTUAL WORK PIECE. THE TEST STUDS SHALL BE SUBJECTED TO A 90% BEND TEST BY STRIKING THEM WITH A HEAVY HAMMER. AFTER THE ABOVE TEST, THE WELD SECTION SHALL NOT EXHIBIT ANY TEARING OUT OR CRACKING.
- TESTING OF END-WELDED STUDS SHALL BE IN ACCORDANCE WITH CBC SECTION 2213A.2.

STRUCTURAL OBSERVATION:

1. PER 2019 CALIFORNIA ADMINISTRATIVE CODE, SECTION 4-333. A LICENSED ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN, OR HIS DESIGNATED ENGINEER OR ARCHITECT MUST MAKE SITE VISITS TO OBSERVE GENERAL COMPLIANCE WITH THE APPROVED STRUCTURAL PLANS, SPECIFICATIONS AND CONSTRUCTION CHANGE DOCUMENTS (CCD). THE ENGINEER OR ARCHITECT SHALL SUBMIT A FINAL VERIFIED REPORT FORM DSA-6A/E TO DSA.

ABBREVIATIONS

&	AND	KIPS	KILOPOUNDS (1,000 POUNDS)
Ø	CENTER LINE	K.O.	KNOCK OUT
PL	PLATE PROPERTY LINE	LB	POUND
AB.	ANCHOR BOLT	L.B.	LAG BOLT
ADJ.	ADJACENT	L.F.	LINEAR FOOT
AR	ABOVE FINISH FLOOR	LG	LONG
ARCH'L	ARCHITECTURAL	L.L.	LONG LEAD
BOARD	BOARD	L.L.H.	LONG LEG HORIZONTAL
BLD'G	BUILDING	L.L.V.	LONG LEG VERTICAL
BLK	BLOCK	L.S.	LAG SCREW
BL'G	BLOCK	LT	LIGHT
BLW	BELOW	M	MASONRY
BM	BEAM	MAT.	MATERIAL
B.N.	BOUNDARY NAIL	MAX.	MAXIMUM
BTM	BOTTOM	M.B.	MACHINE BOLT
BRG	BEARING	M.E.C.L.	MECHANICAL
B.S.	BOTH SIDE	MEZZ.	MEZZANINE
BTWN	BETWEEN	M.H.	MANHOLE
C.B.	CARRIAGE BOLT	MANUF.	MANUFACTURER
C.F.	CUBIC FOOT	M.L.	METAL
CHAM	CHAMFER	N.S.	NEAR SIDE
C.I.P.	CAST-IN-PLACE	N.I.C.	NOT IN CONTRACT
C.J.	CONTROL JOINT	NOM.	NOMINAL
CLG	CEILING	N.T.S.	NOT TO SCALE
CALL	CALLING	O.C.	ON CENTER
CL'G	CALLING	O.D.	OUTSIDE DIAMETER
CLC	CLEAR	O.H.	OPPOSITE HAND
CMU	CONCRETE MASONRY UNIT	OPN'G	OPENING
CNTR	CENTER	OPN'G	OPENING
COL	COLUMN	O.W.J.	OPEN WEB JOIST
CONC	CONCRETE	P.C.	PRECAST
CONN	CONNECTION	PERP.	PERPENDICULAR
CONT	CONTINUOUS	P.W.D.	PLYWOOD
CNTRSNK	COUNTERSINK	P.N.	PANEL
DBL	DOUBLE	PREFAB	PREFABRICATED
DEF	DEPRESSED	P.S.F.	POUNDS PER SQUARE FOOT
DET	DETAIL	P.S.I.	POUNDS PER SQUARE INCHES
D.F.	DOUGLAS FIR	PNT	POINT
D.F.L.	DOUGLAS FIR/LARCH	P.T.	PRESSURE TREATED
DIAG	DIAGONAL	P.V.C.	POLYVINY CHLORIDE
DM	DIMENSION	RAD	RADIUS
D.L.	DEAD LOAD	R.D.	RADIUS
DN	DOWN	REF.	REFERENCE
DW	DIVISION	REINFORC'D	REINFORCED / REINFORCING
DR	DOOR	REV	REVISION
DWG	DRAWING	RFT	RAFTER
DWL	BOWEL	RFR	ROOF HATCH
E	EACH	RM	ROOM
E.F.	EACH FACE	R.O.	ROUGH OPENING
E.L.	ELEVATION	R.S.	ROUGH SAWN
ELEV.	ELEVATION / ELEVATOR	SCHED.	SCHEDULE
E.N.	EDGE NAIL	S.F.	SQUARE FOOT
EQ.	EQUAL	SH	SHEET
EQUIP	EQUIPMENT	SHTG	SHEETING
E.S.	EACH SIDE	SH	SHEET
E.W.	EACH WAY	S.M.S.	SHEET METAL SCREW
EXIST'G	EXISTING	SPEC.	SPECIFICATION
EXP	EXPANSION	SQ.	SQUARE
EXT	EXTERIOR	S.S.	STAINLESS STEEL
F.D.	FLOOR DRAIN	STAGG.	STAGGERED
FDN	FOUNDATION	STD	STANDARD
FIN.	FINISH FLOOR	STIFF.	STIFFENER
FIN.	FINISH	STL.	STEEL
F.L.R.	FLOOR	STRUCT'L	STRUCTURAL
F.N.	FIELD NAIL	S.T.S.	SELF TAPPING SCREW
F.O.	FACE OF	SYM	SYMMETRICAL
FRM'G	FRAMING	SYS	SYSTEM
F.S.	FACE SIDE	T & B	TOP AND BOTTOM
FT	FEET / FOOT	T & G	TONGUE AND GROOVE
FTG	FOOTING	TEMP	TEMPORARY
GA	GALVE	THK	THICK
GALV	GALVANIZED	THKN'D	THICKENED
G.I.	GALVANIZED IRON	THRU	THROUGH
GLB	GLU-LAMINATED BEAM	T.L.	TOTAL LOAD
GRD	GRADE	T.O.	TOP OF
GYP	GYP-SUM	T.S.C.	TAPERED STEEL GIRDER
HDD	HOLDOWN	TYP.	TYPICAL
HDR	HEADER	U.N.O.	UNLESS NOTED OTHERWISE
HGR	HANGER	VERT.	VERTICAL
HORIZ	HORIZONTAL	W	WITH
HRD	HARD	W/O	WITHOUT
H.S.B.	HIGH STRENGTH BOLT	W.	WOOD
HGT	HEIGHT	WIN	WINDOW
HVAC	HEATING, VENTILATION, & AIR CONDITIONING	W.P.	WATERPROOF / WORK POINT
IN.	INCH	W.P.J.	WEAKENED PLANE JOINT
INSP.	INSPECTION / INSPECTOR	WT	WEIGHT
INT.	INTERIOR	W.W.F.	WELDED WIRE FABRIC
JST	JOIST	W.W.M.	WELDED WIRE MESH

GENERAL SPECIAL INSPECTION NOTES:

- THE SPECIAL INSPECTOR MUST SUBMIT A COMPLETED FORM 5-SI TO THE AOR FOR APPROVAL BY DSA. THE PROJECT INSPECTOR MUST SUBMIT A COMPLETED FORM 5-PI TO THE AOR AND SEOR FOR APPROVAL NY DSA PRIOR TO START OF CONSTRUCTION.
- THE CONSTRUCTION MATERIALS TESTING LABORATORY MUST BE APPROVED BY DSA FOR TESTING OF MATERIALS, SYSTEMS, COMPONENTS AND EQUIPMENT. THE TESTING LAB SHALL HAVE DSA LEA ACCEPTANCE.
- VERIFIED REPORTS SHALL BE MADE ON FORM DSA-6 NY PROJECT INSPECTORS AND SUBCONTRACTORS, FORM DSA-292 FOR SPECIAL INSPECTORS, AND FORM DSA-6A/E BY ARCHITECTS AND ENGINEERS. VERIFIED REPORTS SHALL BE MADE PER THE REQUIREMENTS OF SECTION 4-336 OF THE 2019 CALIFORNIA ADMINISTRATIVE CODE, CCR, TITLE 35, PART 1.
- THE SPECIAL INSPECTIONS ON PLANS ARE IN ADDITION TO AND NOT A SUBSTITUTE FOR THOSE INSPECTIONS REQUIRED TO BE PERFORMED BY A DSA PROJECT INSPECTOR.
- WHERE MATERIALS OR ASSEMBLIES ARE REQUIRED BY THE BUILDING CODE TO BE LABELED, SUCH MATERIALS AND ASSEMBLIES SHALL BE LABELED BY AN AGENCY APPROVED BY DSA, IN ACCORDANCE WITH CBC SECTION 1703A. PRODUCTS AND MATERIALS TO BE LABELED SHALL BE TESTED, INSPECTED AND LABELED IN ACCORDANCE WITH THE PROCEDURES SET FORTH IN CBC SECTIONS 1703A.5.1 THROUGH 1703A.5.4. IDENTIFY ON PLANS THE NAME AND ADDRESS OF THE TESTING / INSPECTION AGENT.
- CONTRACTOR SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO DSA PRIOR TO CONSTRUCTION OF LATERAL FORCE RESISTING SYSTEM PER CBC 1704A.4.

ITEMS REQUIRING SPECIAL INSPECTION:

- REFER TO PROJECT FORM DSA-103 FOR SPECIFIC REQUIREMENTS FOR TESTS AND SPECIAL INSPECTIONS.

APPROVALS

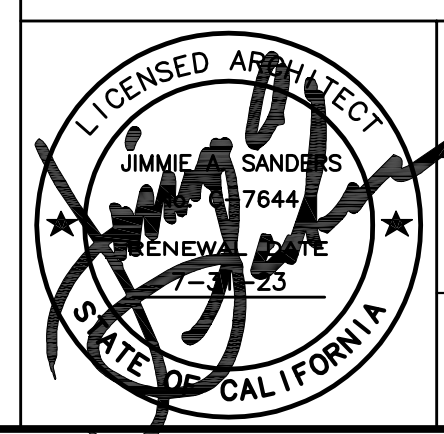
Sanders, INC.

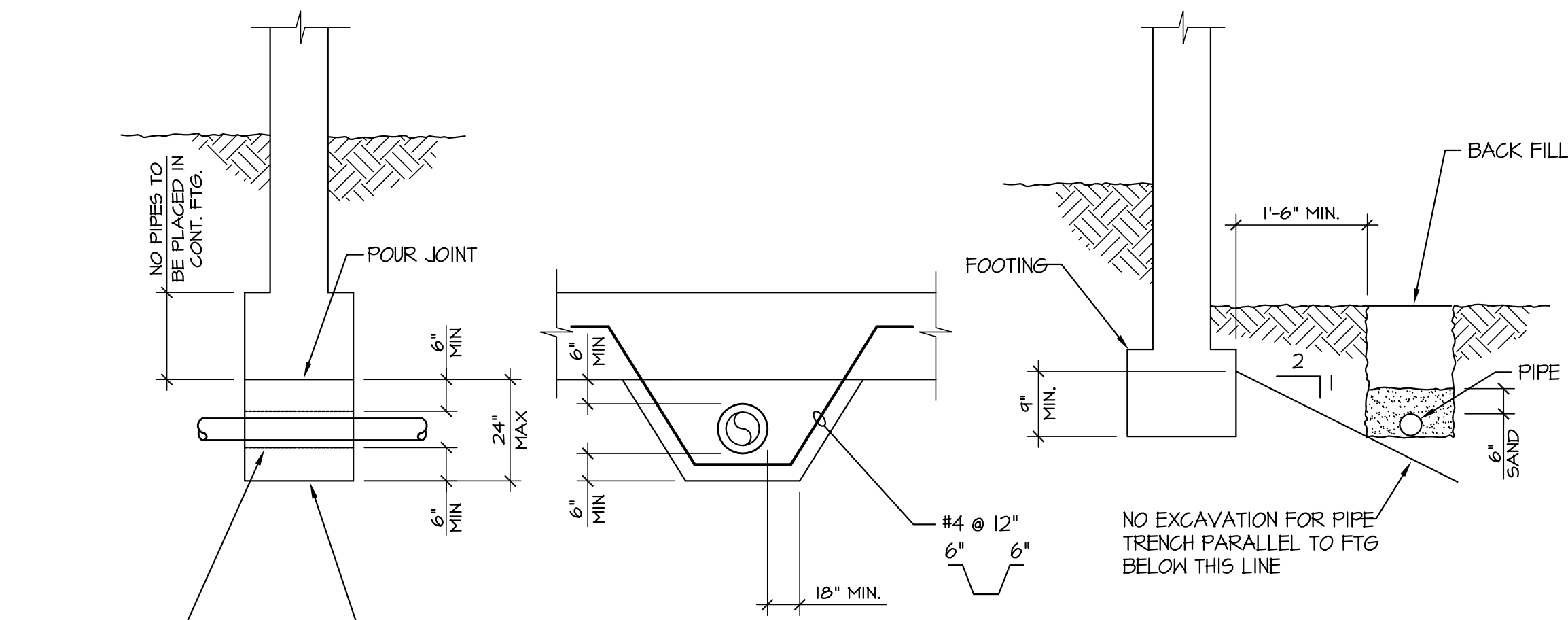
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Project Title
**IMPERIAL VALLEY COLLEGE
RESTROOM/CONCESSION BUILDING**

Sheet Title
TYPICAL NOTES

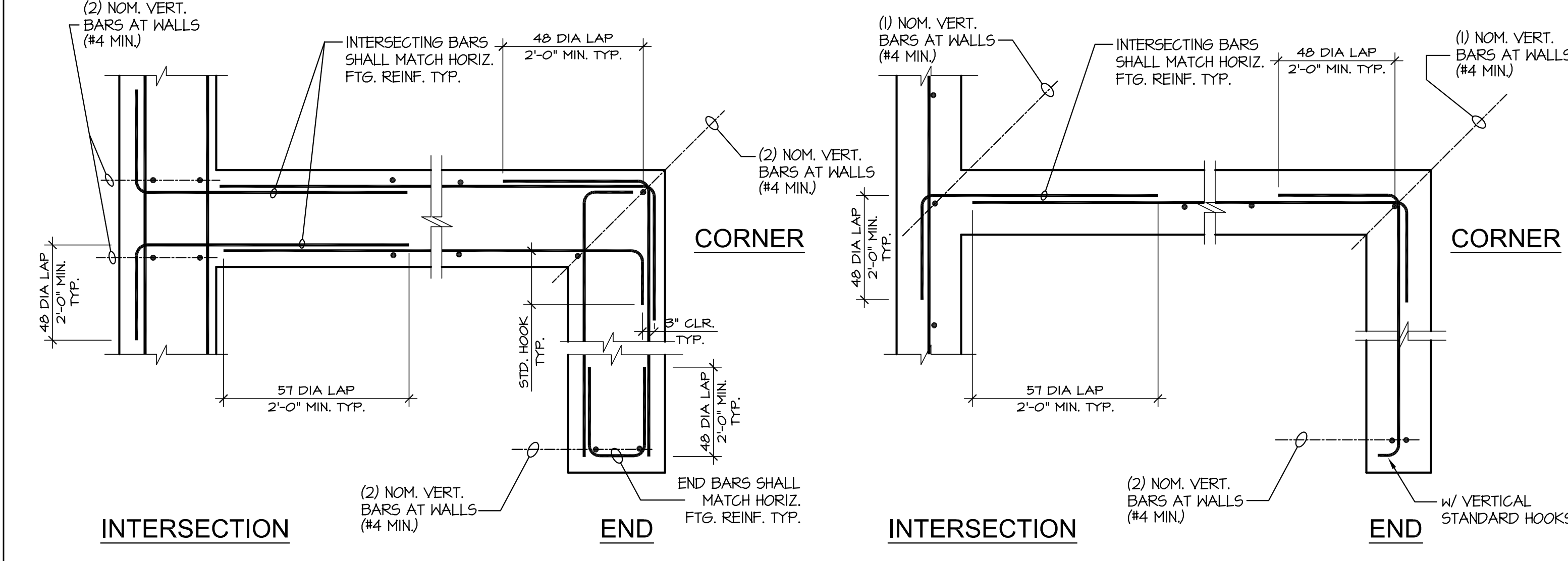
	Document Date 04-01-22	Project Number 22-091V
	Date Last Revised	Sheet Number SO.2



- NOTES:
- INSIDE DIAMETER OF PIPE SLEEVE TO BE 2" LARGER THAN OUTSIDE DIAMETER OF PIPE
 - SLEEVES SHALL BE NON-CORROSIVE, FILL VOID W/ APPROVED SEALANT AT EA END.
 - HOLES AND #5 HOLE REBAR SHALL BE PLACED AWAY FROM CHU EDGES A MIN. OF 2 HOLE DIAMETERS CLEAR DISTANCE AWAY FROM EDGE.

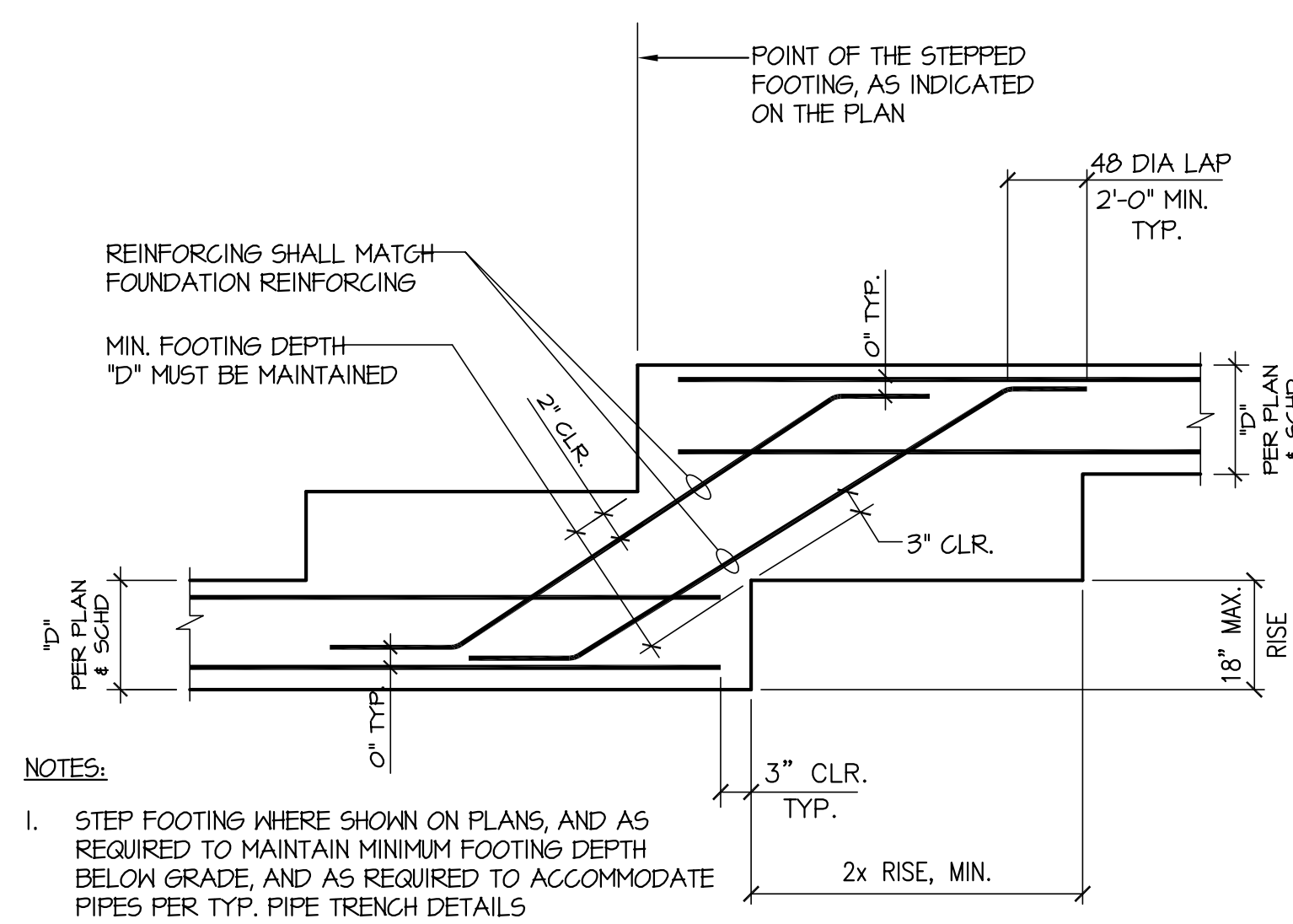
TYPICAL PIPE THRU FOOTING

SCALE: N.T.S. 1



TYPICAL CONCRETE FOOTING AND WALL REBAR - PLAN VIEW

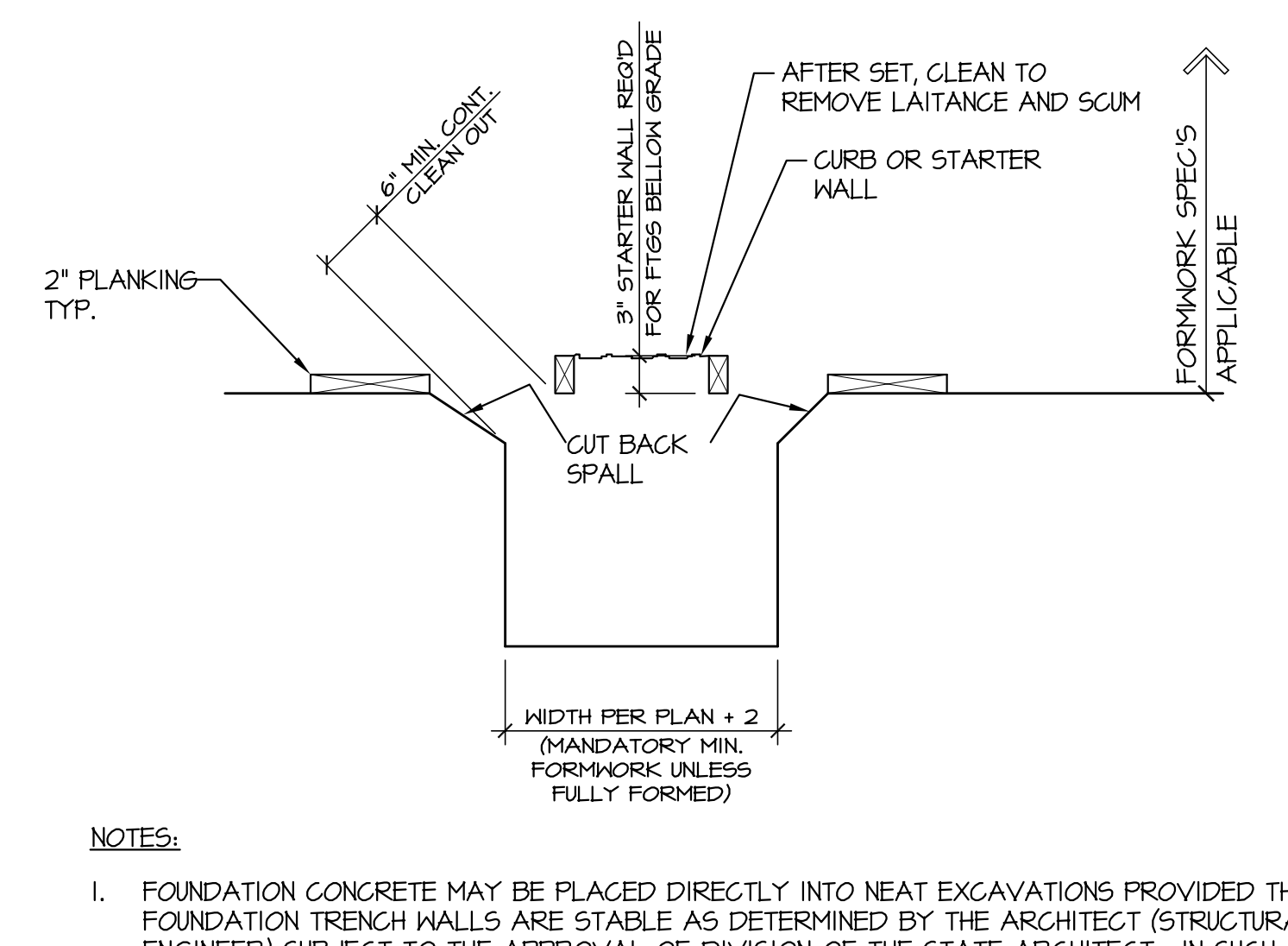
SCALE: N.T.S. 2



- NOTES:
- STEP FOOTING WHERE SHOWN ON PLANS, AND AS REQUIRED TO MAINTAIN MINIMUM FOOTING DEPTH BELOW GRADE, AND AS REQUIRED TO ACCOMMODATE PIPES PER TYP. PIPE TRENCH DETAILS
 - NOT USED

TYPICAL STEPPED FOOTING

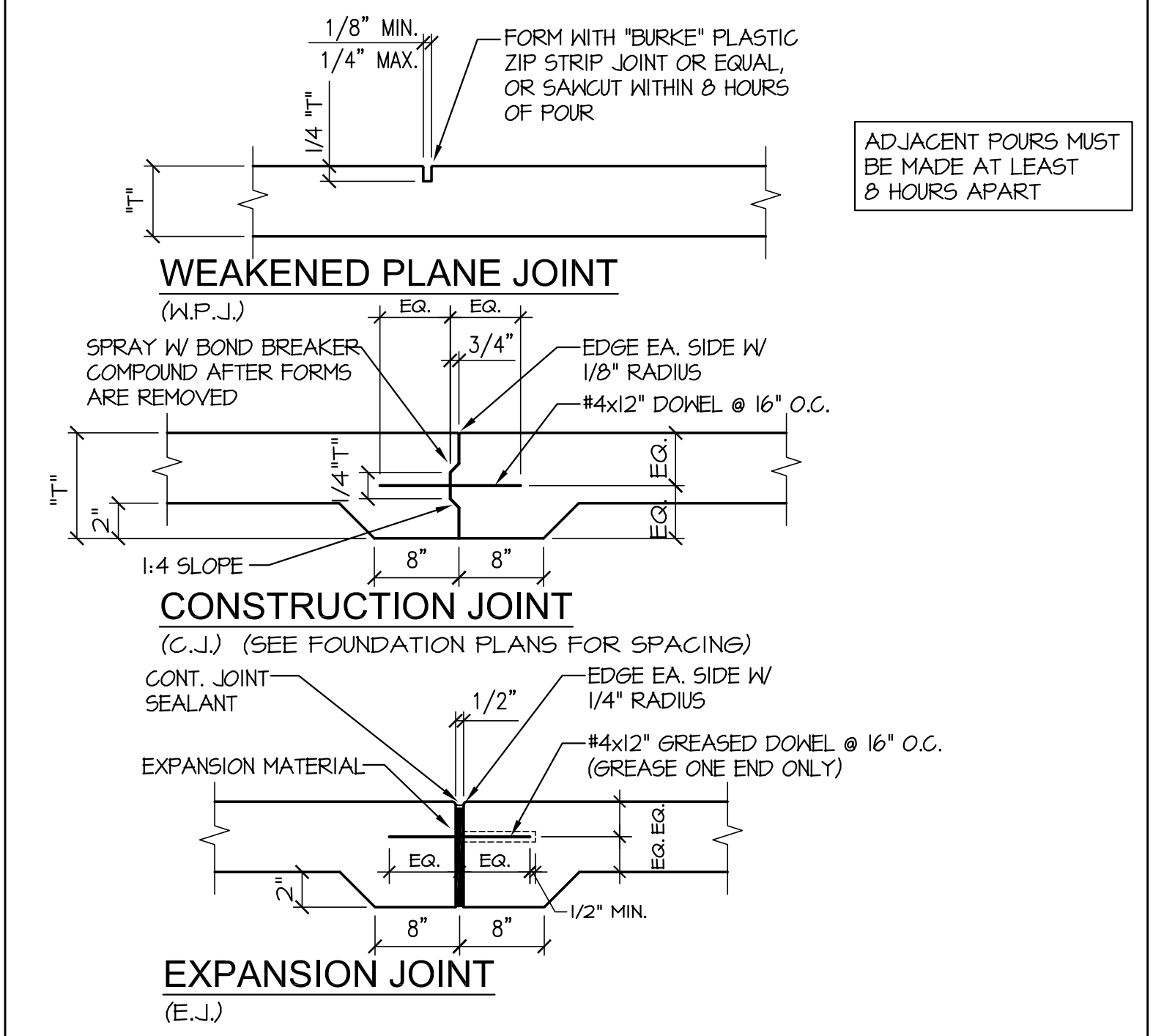
SCALE: N.T.S. 4



- NOTES:
- FOUNDATION CONCRETE MAY BE PLACED DIRECTLY INTO NEAT EXCAVATIONS PROVIDED THE FOUNDATION TRENCH WALLS ARE STABLE AS DETERMINED BY THE ARCHITECT (STRUCTURAL ENGINEER) SUBJECT TO THE APPROVAL OF DIVISION OF THE STATE ARCHITECT. IN SUCH CASE THE MINIMUM FORMWORK SHOWN ABOVE IS MANDATORY TO INSURE CLEAN EXCAVATIONS IMMEDIATELY PRIOR TO THE PLACING OF CONCRETE.
 - FORMWORK ARE NOT PERMITTED WITHIN FOOTING SECTION, UNLESS FULLY FORMED.
 - STAKES ARE NOT PERMITTED WITHIN FOOTING SECTION.

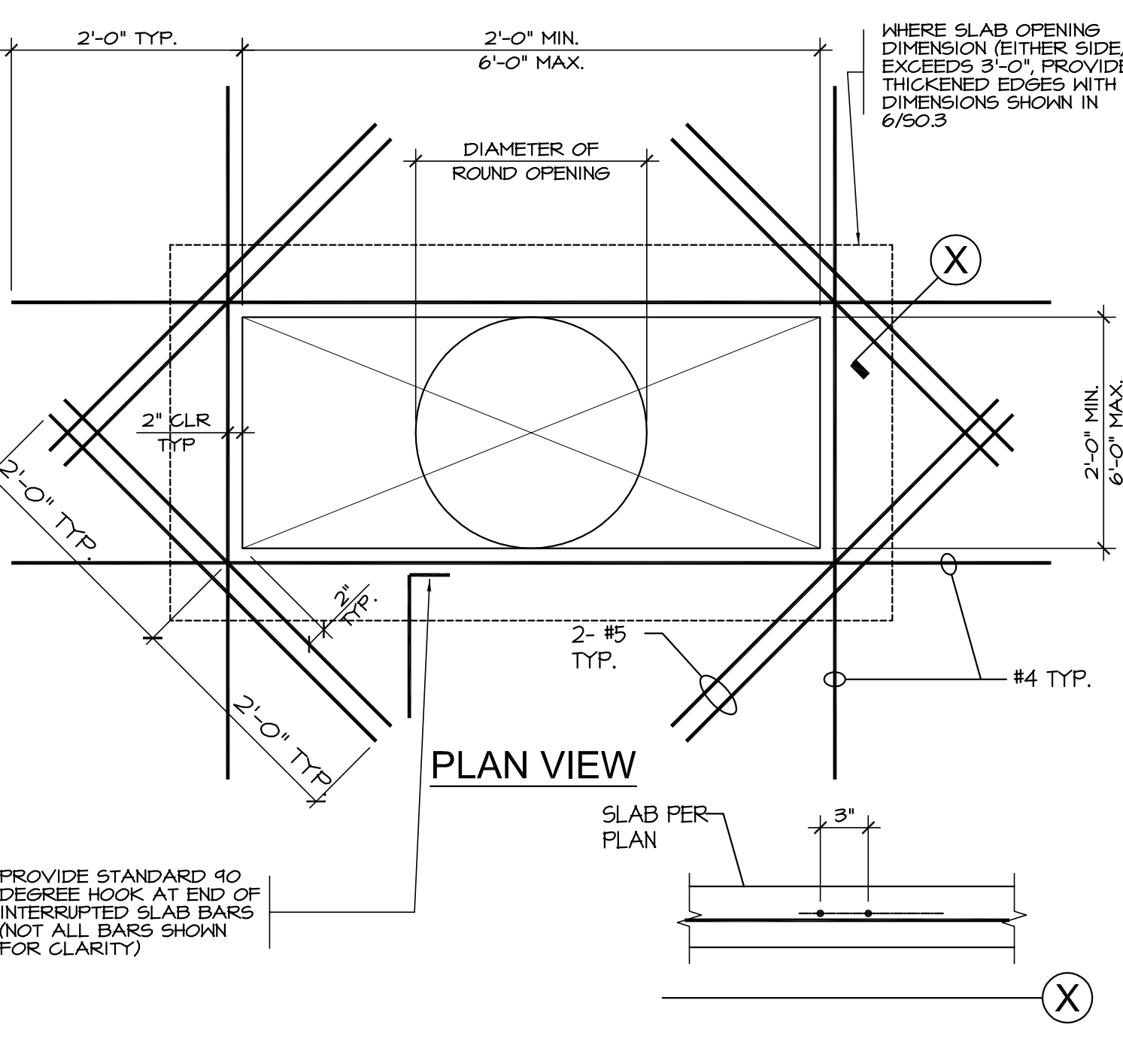
TYPICAL MIN. FORMWORK

SCALE: N.T.S. 5



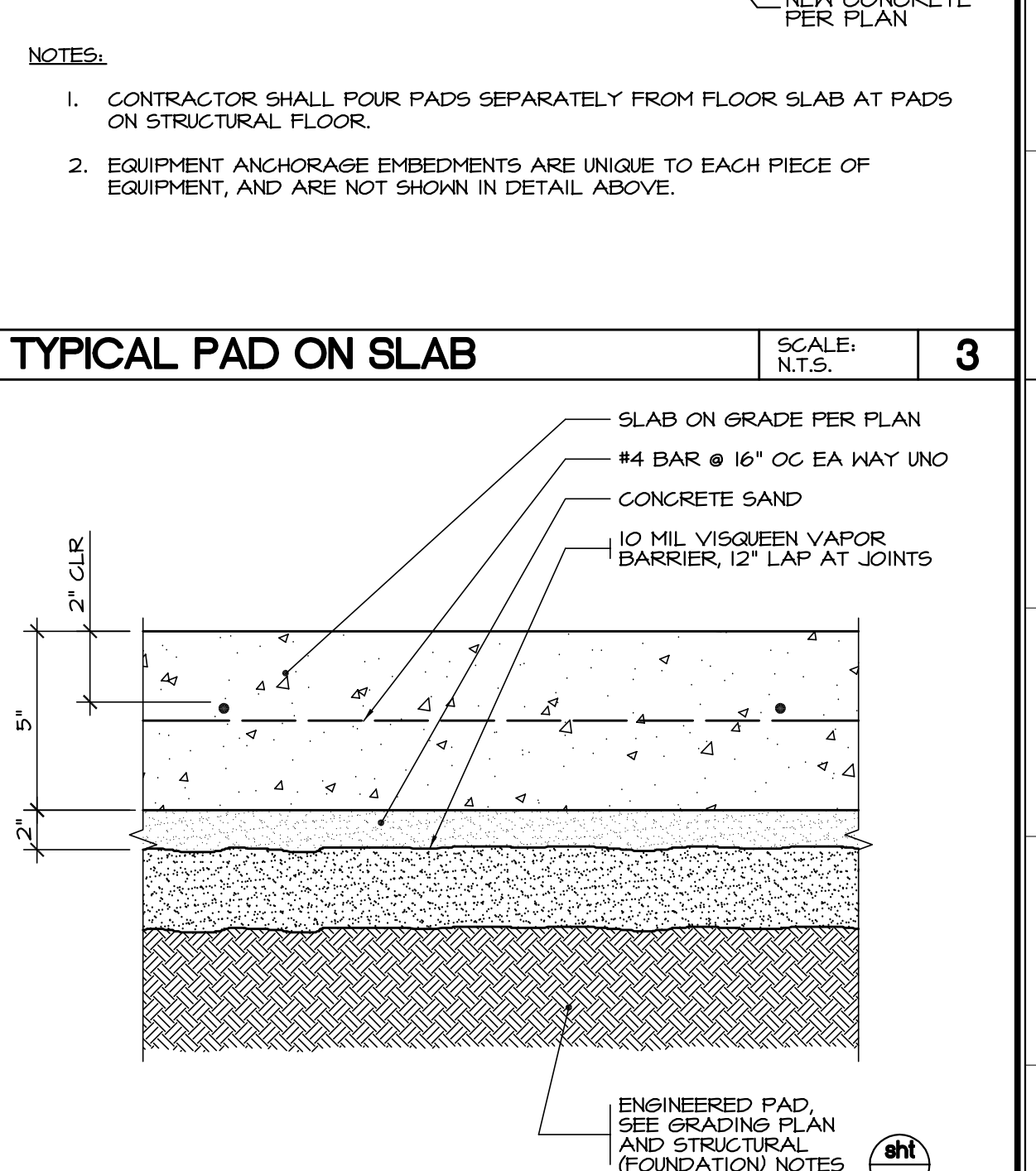
TYPICAL SLAB JOINTS

SCALE: N.T.S. 6



TYPICAL OPENING IN SLAB ON GRADE

SCALE: N.T.S. 7

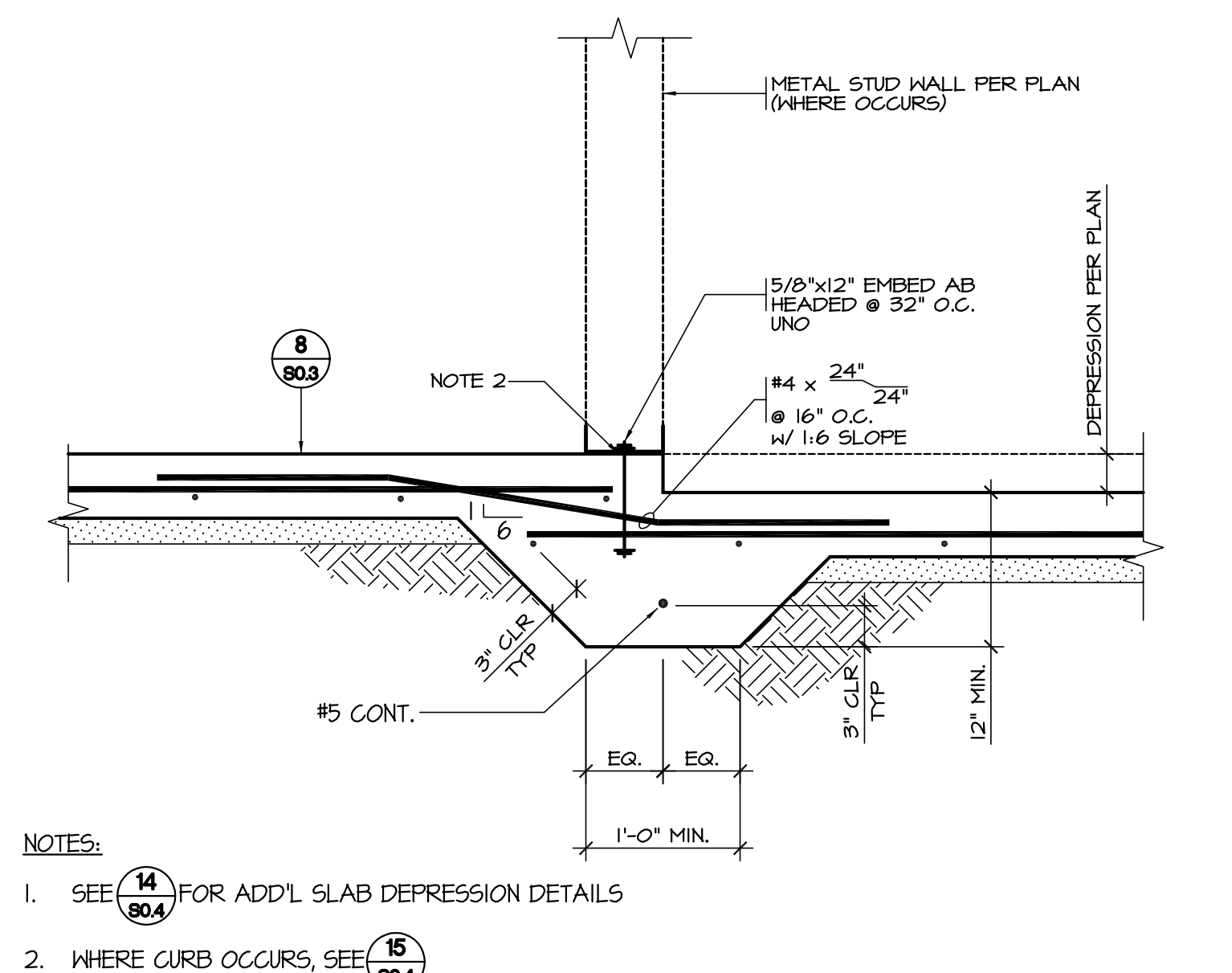


TYPICAL PAD ON SLAB

SCALE: N.T.S. 3

TYPICAL BUILDING SLAB ON GRADE

SCALE: N.T.S. 8



- NOTES:
- SEE 14/804 FOR ADD'L SLAB DEPRESSION DETAILS
 - WHERE CURB OCCURS, SEE 15/804

TYPICAL DEPRESSED SLAB

SCALE: N.T.S. 9

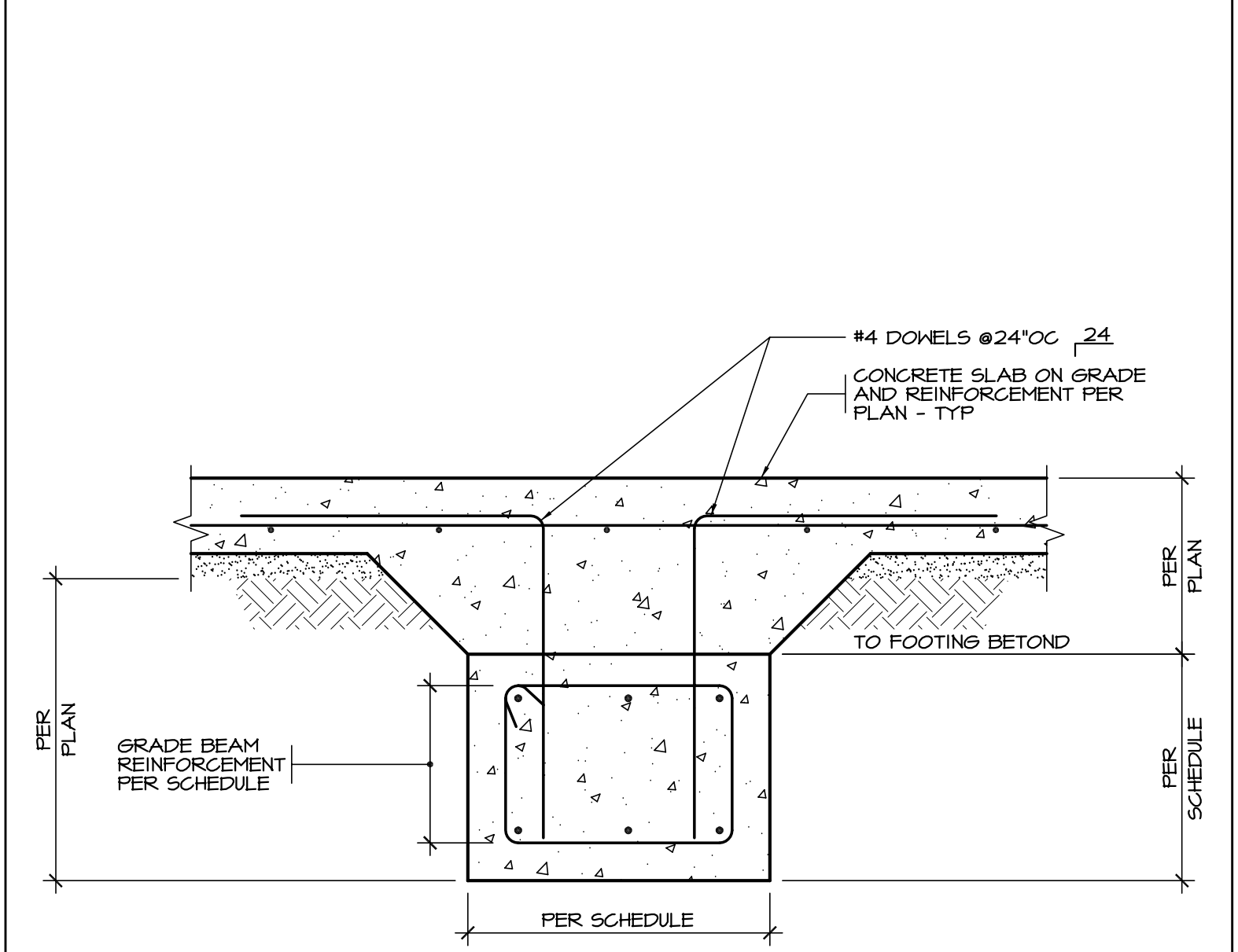
AB @ FACE OF WALL MIN WALL THICKNESS	BOLT	MINIMUM EMBEDMENT	MAX PROJECTION
6"	1/2"	4"	4"
8"	5/8"	4 1/2"	4"
12"	3/4"	5"	4"
	7/8"	6"	5"
	1"	7"	5"
	1 1/8"	8"	6"
	1 1/4"	9"	6"

NOTES:

- WHERE BOLTS ARE LOCATED AT TOP OF COLUMN OR AT FOOTING ADDITIONAL 2" EMBEDMENT SHALL BE PROVIDED.
- THIS DETAIL REPRESENTS MINIMUM REQUIREMENTS. VERIFY CONDITIONS WITH PLANS AND OTHER PROJECT SPECIFIC DETAILS.

TYPICAL CONCRETE AB EMBEDMENT

SCALE: N.T.S. 10



GRADE BEAM DETAIL

SCALE: N.T.S. 11

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Project Title
**IMPERIAL VALLEY COLLEGE
 RESTROOM/CONCESSION BUILDING**

Sheet Title
TYPICAL CONCRETE DETAILS

	Document Date	Project Number
	Date Last Revised	Sheet Number
	04-01-22	22-091V
		S0.3

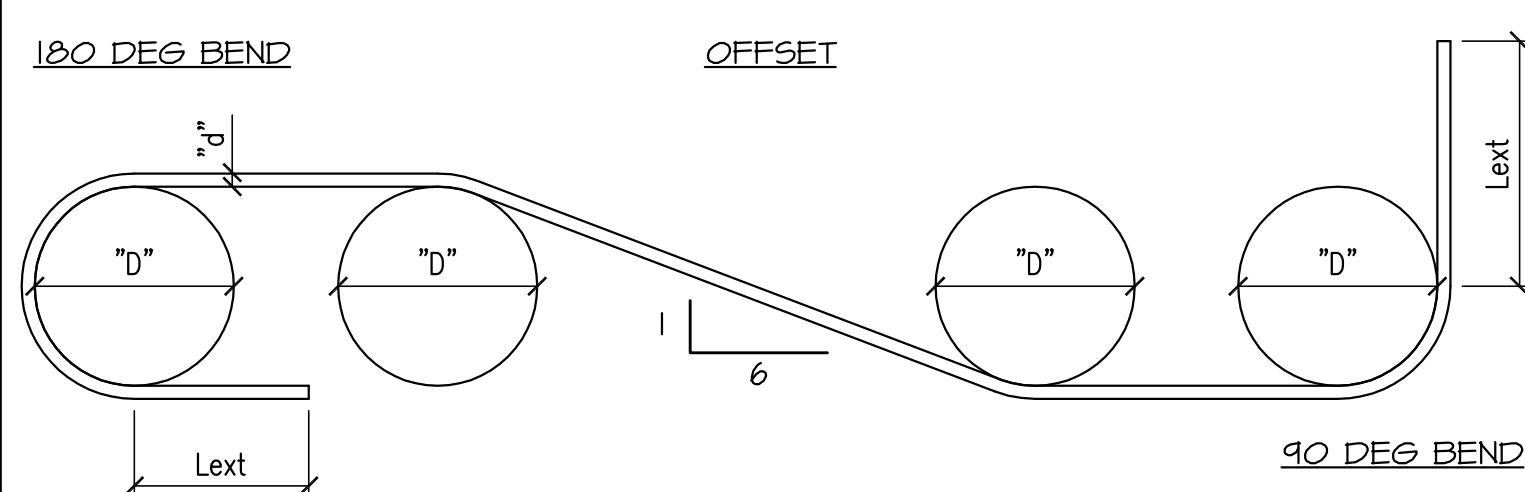


Table 25.3.1—Standard hook geometry for development of deformed bars in tension

Type of standard hook	Bar size	Minimum inside bend diameter, in.	Straight extension[1] Lext, in.	Type of standard hook
90-degree hook	No. 3 through No. 8	6db	12db	
	No. 9 through No. 11	8db		
	No. 14 and No. 18	10db		
180-degree hook	No. 3 through No. 8	6db	Greater of 4db and 2.5 in.	
	No. 9 through No. 11	8db		
	No. 14 and No. 18	10db		

[1] A standard hook for deformed bars in tension includes the specific inside bend diameter and straight extension length. It shall be permitted to use a longer straight extension at the end of a hook. A longer extension shall not be considered to increase the anchorage capacity of the hook.

NOTE: ALL BENDS SHALL BE MADE COLD.

Table 25.3.2—Minimum inside bend diameters and standard hook geometry for stirrups, ties, and hoops

Type of standard hook	Bar size	Minimum inside bend diameter, in.	Straight extension[1] Lext, in.	Type of standard hook
90-degree hook	No. 3 through No. 5	4db	Greater of 6db and 3 in.	
	No. 6 through No. 8	6db	12db	
135-degree hook	No. 3 through No. 5	4db	Greater of 6db and 3 in.	
	No. 6 through No. 8	6db		
180-degree hook	No. 3 through No. 5	4db	Greater of 4db and 2.5 in.	
	No. 6 through No. 8	6db		

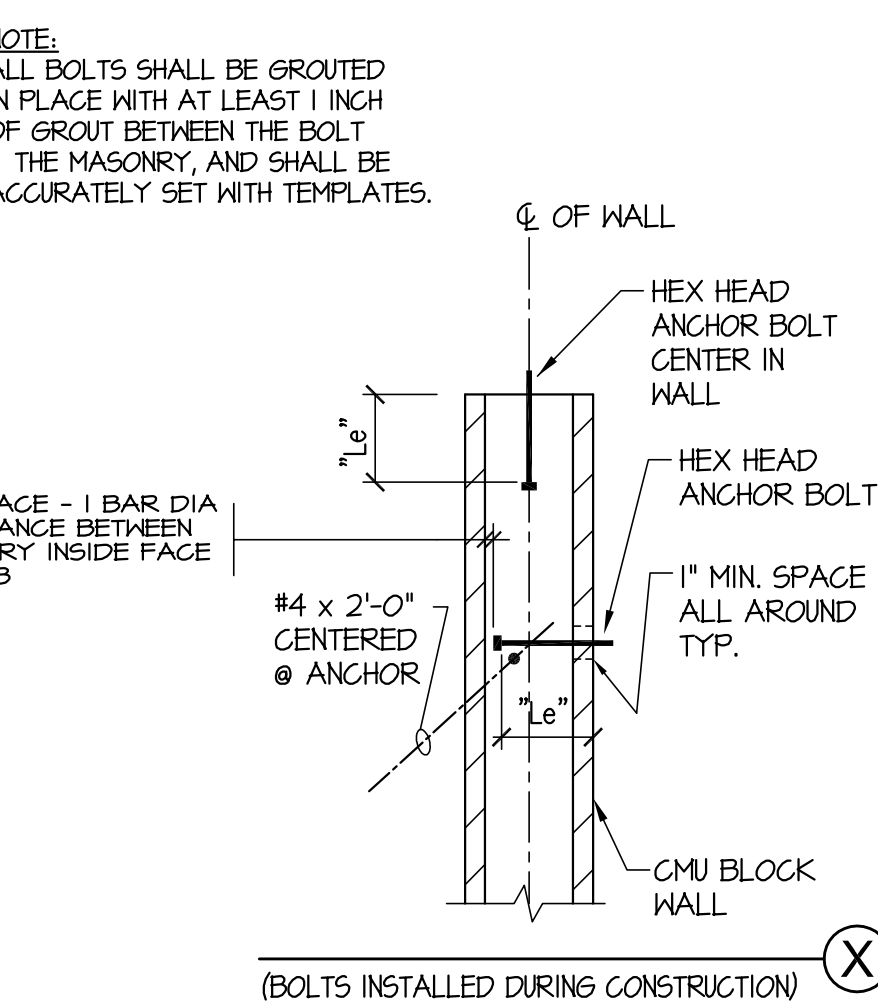
CMU		BAR SIZE									
Fs		#3	#4	#5	#6	#7	#8	#9	#10		
32,000	27	36	45	54	63	72	81	90			

CONCRETE		COMPRESSION LAP									
BAR SIZE	TENSION LAP "Ld" (IN)	COMPRESSION LAP "Lc" (IN)									
Fc		#3	#4	#5	#6	#7	#8	#9	#10		
4,500	25	33	41	49	57	65	73	81	89	97	105

NOTE:

- ALL VERTICAL REINFORCING FOR COLUMN, PIERS AND WALLS SHALL BE DONE AS SHOWN, UNLESS NOTED OTHERWISE.
- DO NOTS SHALL BE THE SAME GRADE, SIZE, QUANTITY, AND/OR SPACING AS VERTICAL REINFORCING.
- WHEN "Lc" OR "Ld" IS NOT SPECIFIED ON DRAWING, USE TENSION LAP "Ld".
- CONCRETE MASONRY UNITS LAP 2d MIN. HORIZ VERTICAL REINFORCING.

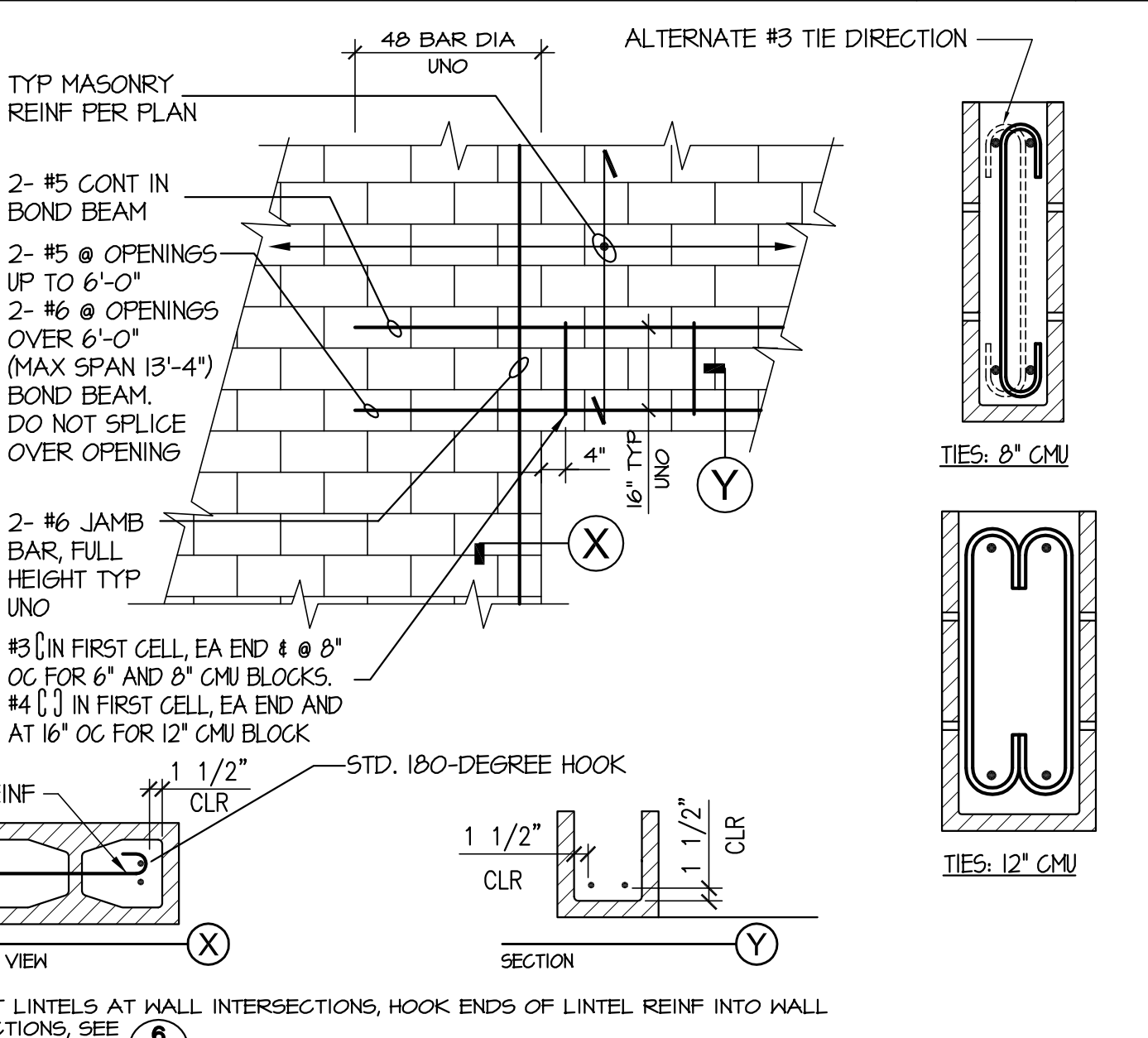
VERTICAL REINFORCING LAP SPlice



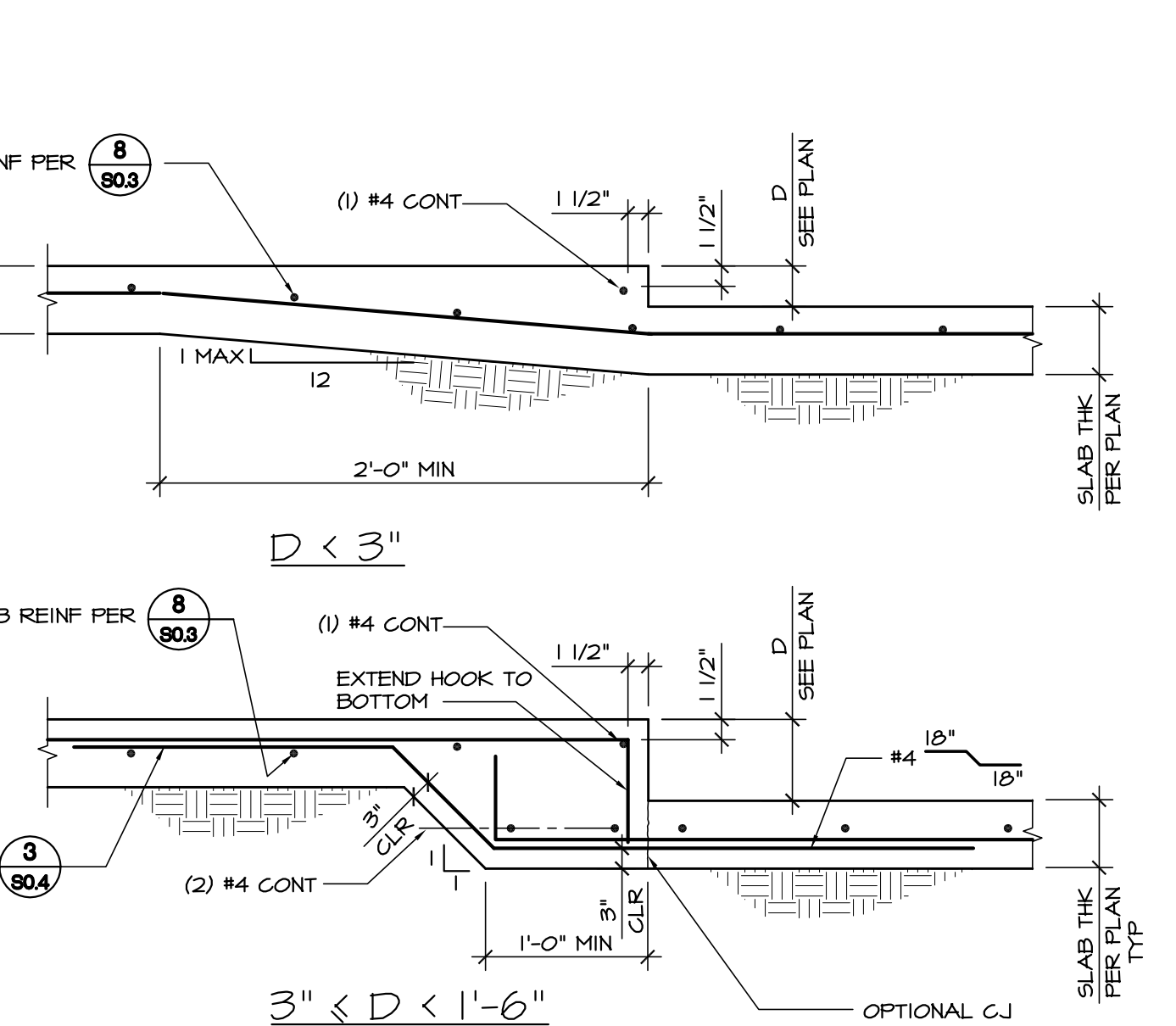
NOTE:

- FOR ANCHOR BOLT SEE 10/803

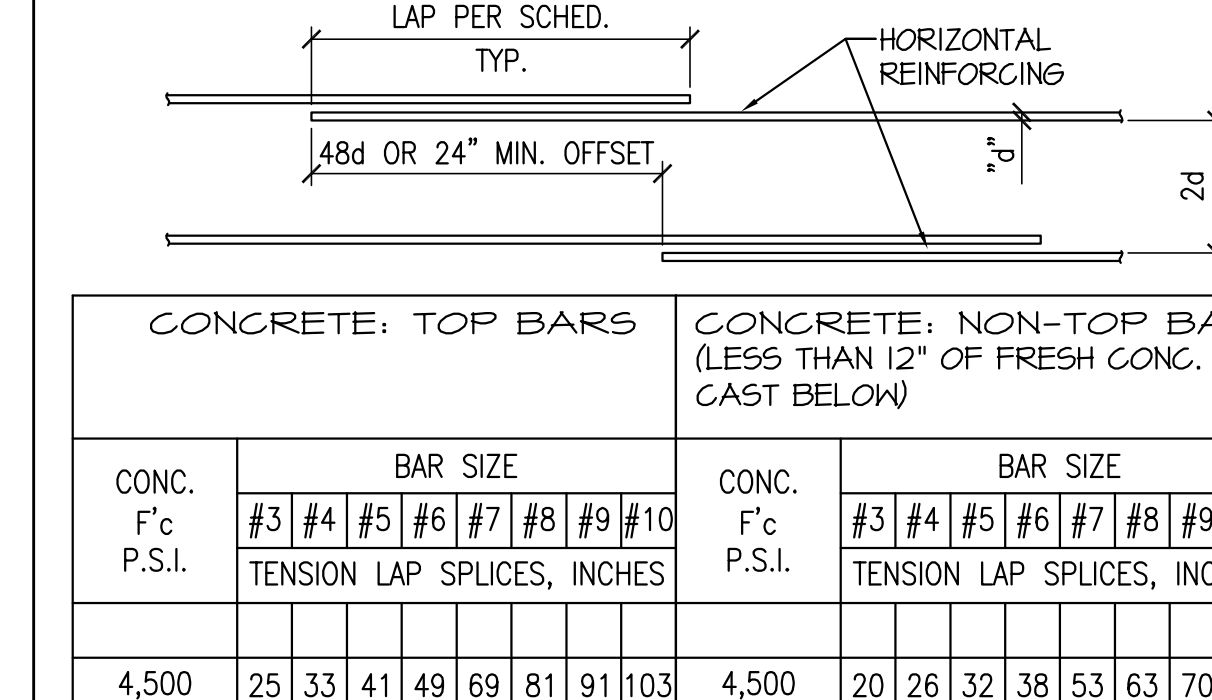
TYP MASONRY ANCHOR EMBEDMENT



TYPICAL MASONRY LINTEL

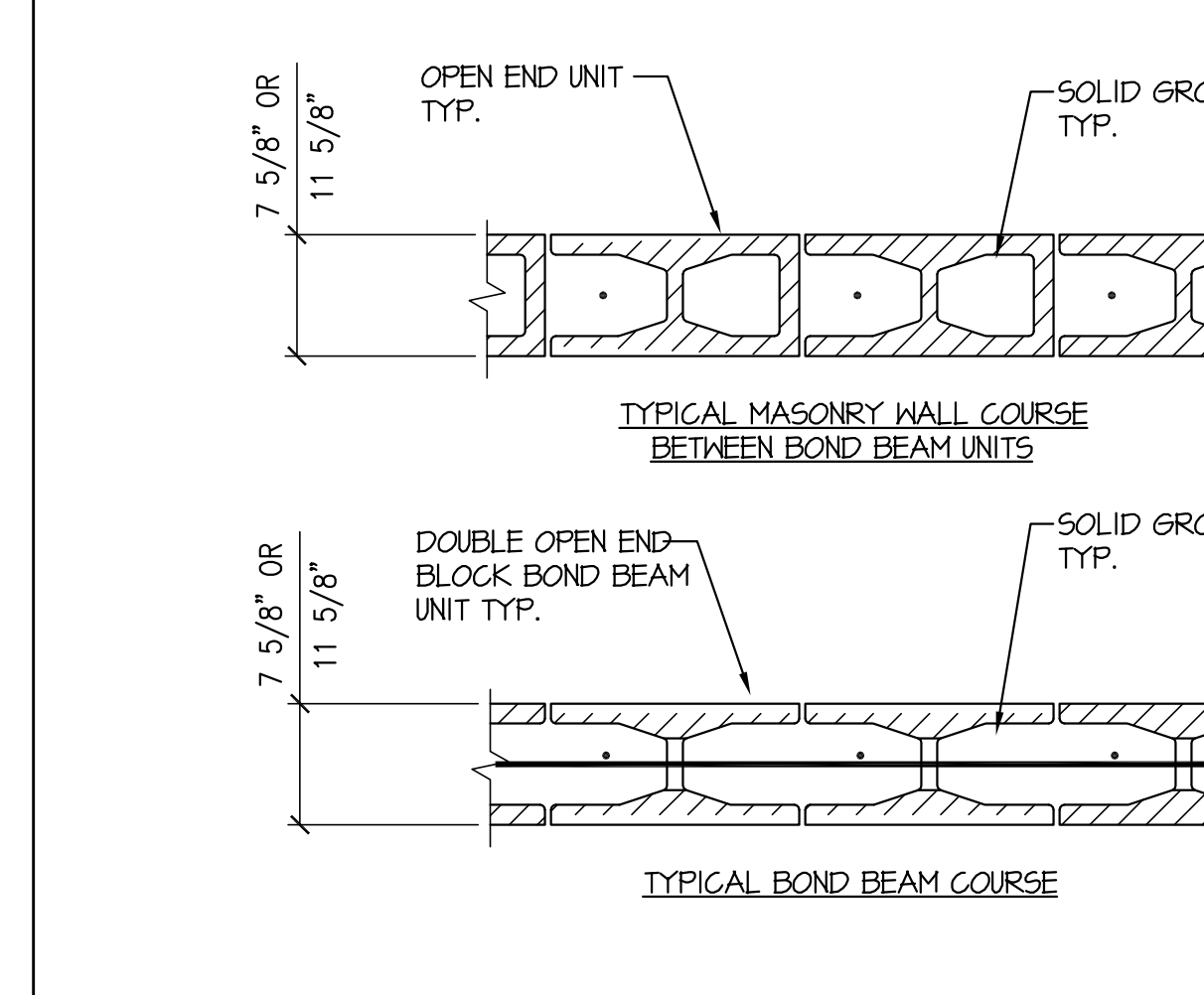


TYPICAL DEPRESSION DETAIL

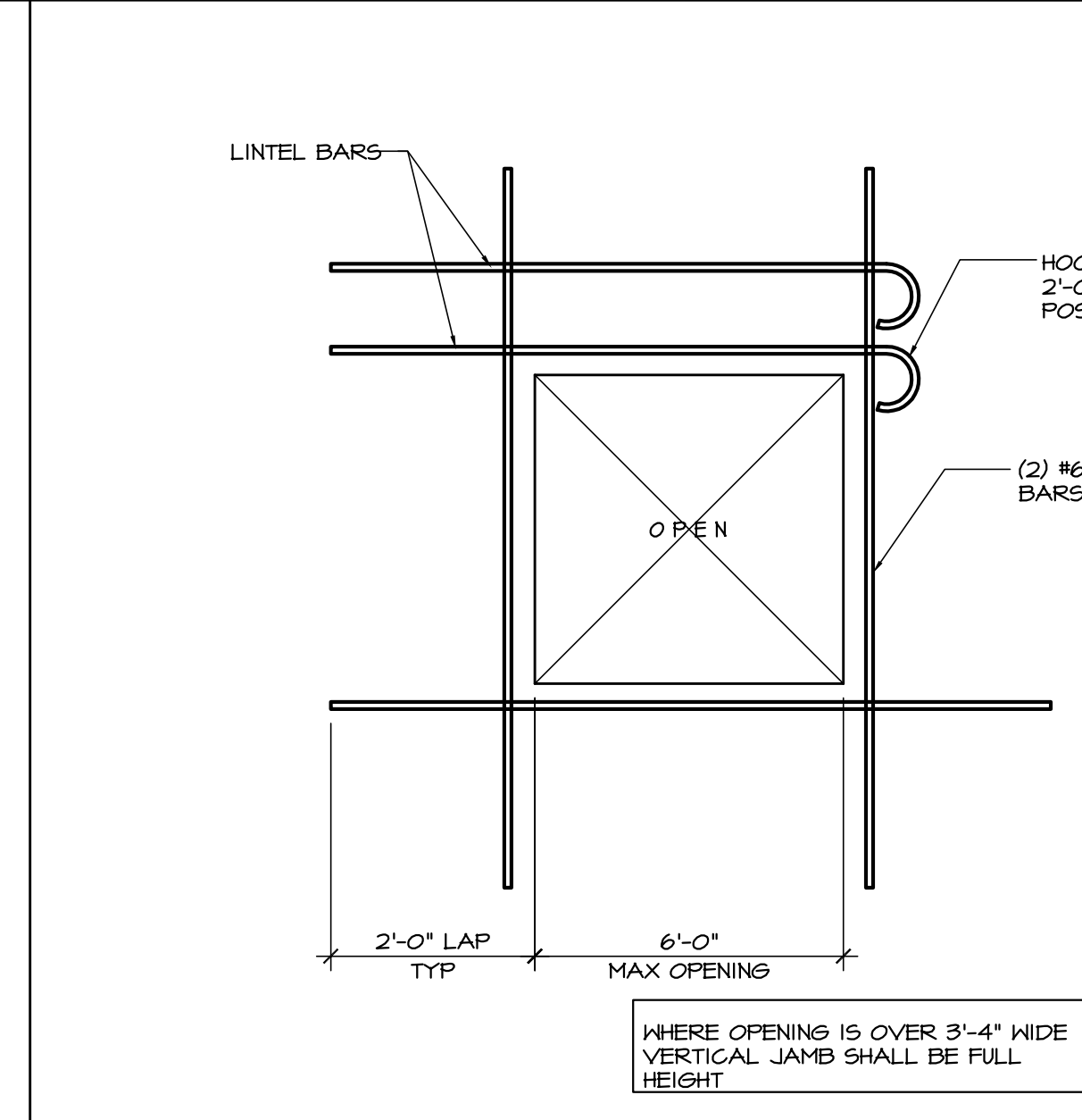


CONCRETE: TOP BARS		CONCRETE: NON-TOP BARS (LESS THAN 12" OF FRESH CONC. CAST BELOW)									
CONC. Fc	BAR SIZE	CONC. Fc									
P.S.I.	TENSION LAP SPICES, INCHES	#3	#4	#5	#6	#7	#8	#9	#10		
4,500	25	33	41	49	57	65	73	81	89	97	105

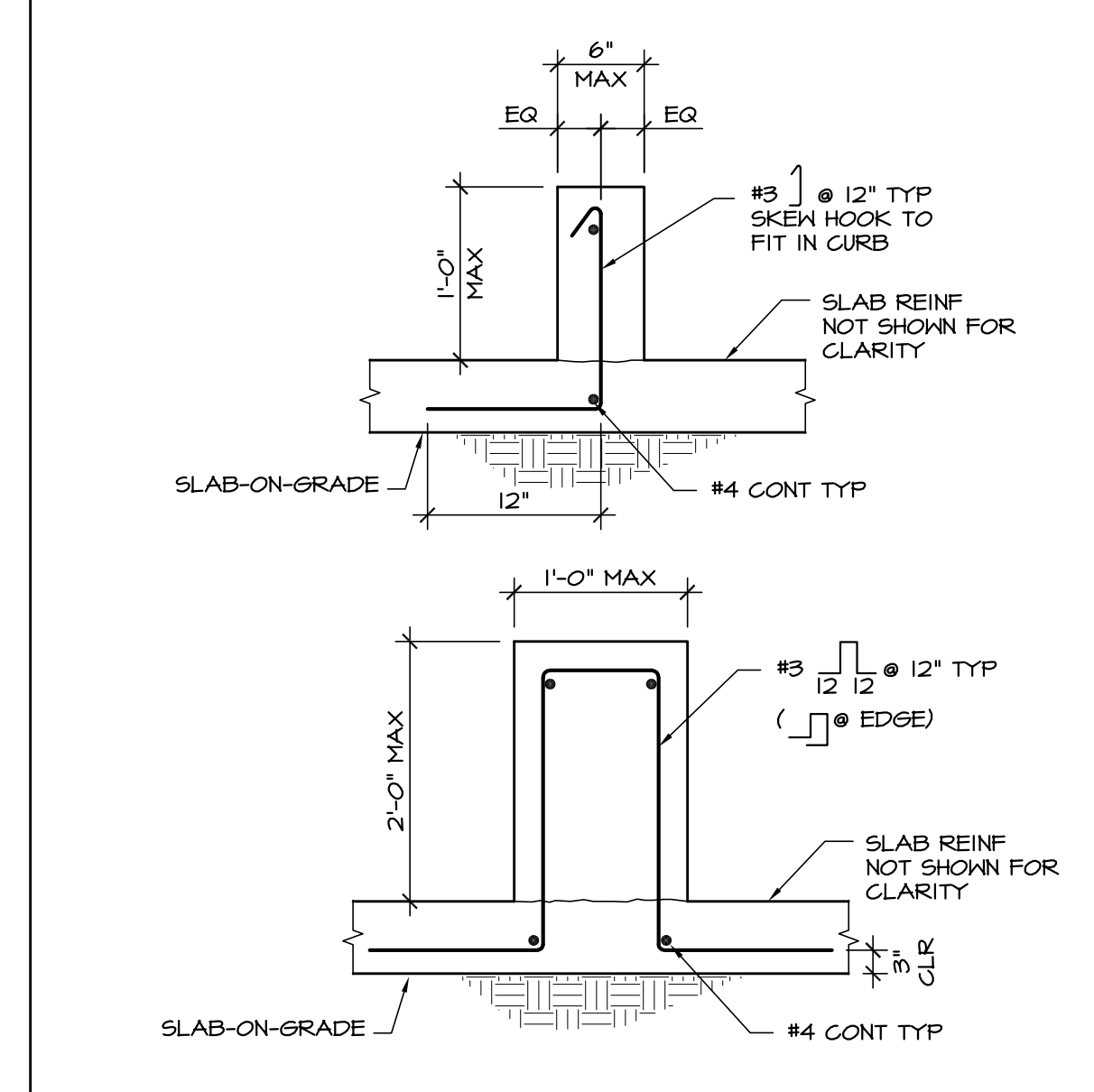
HORIZONTAL REINFORCING LAP SPlice



TYPICAL MASONRY COURSING

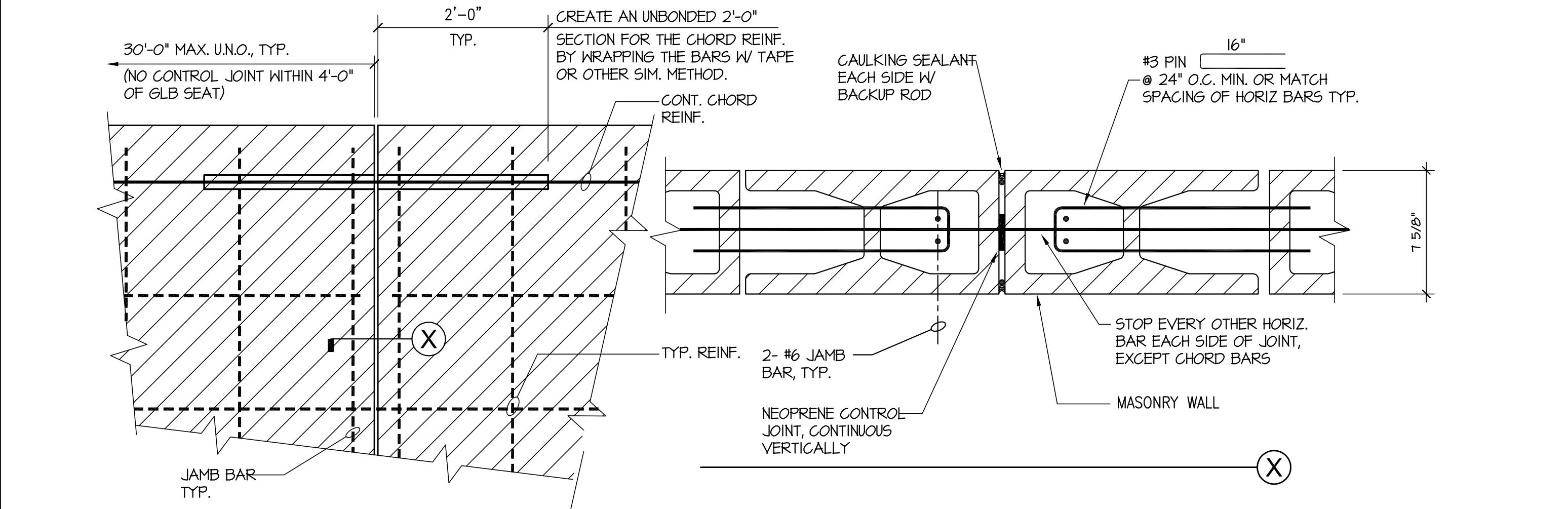


TYPICAL CMU JAMB AT OPNG

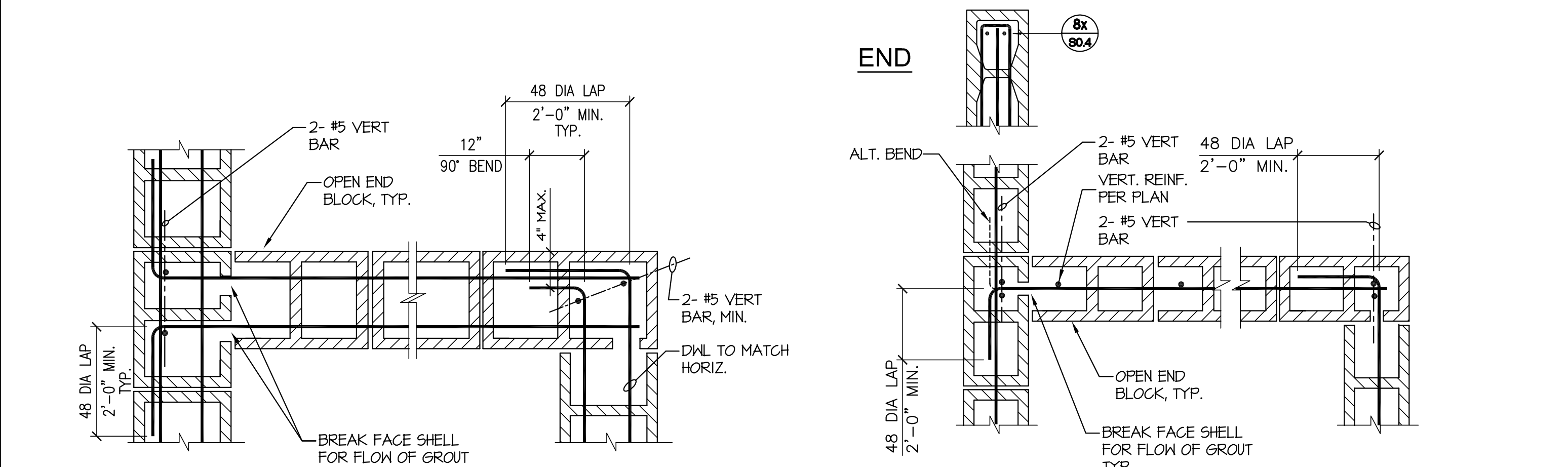


TYPICAL CURB DETAIL

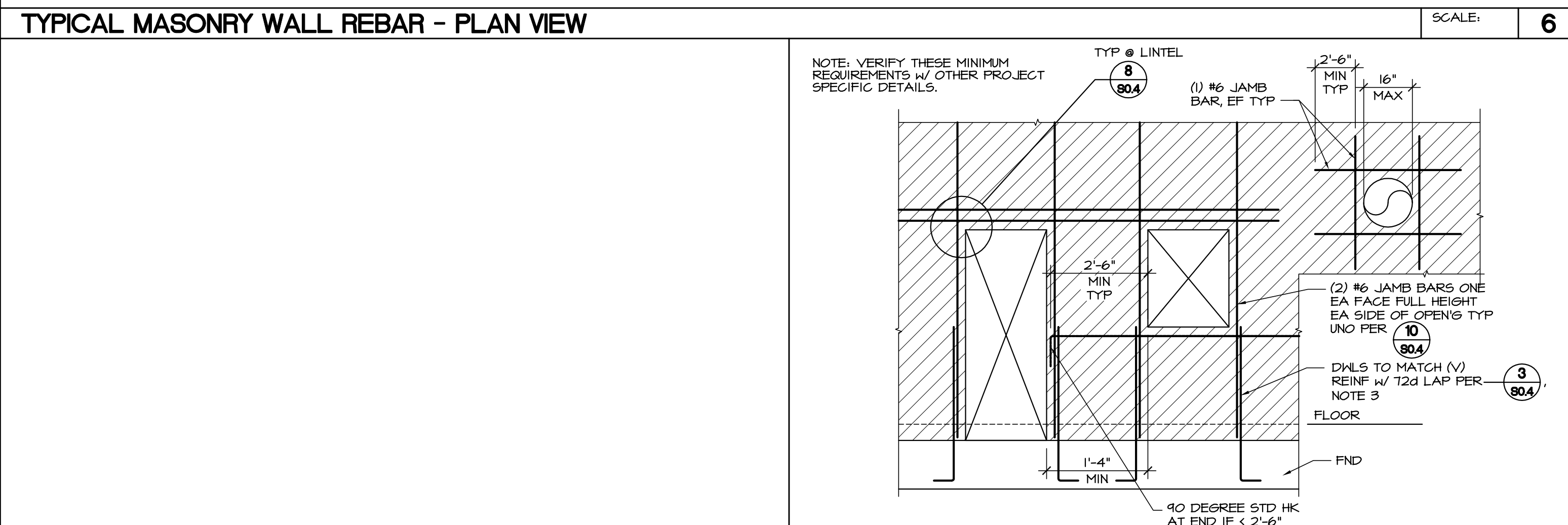
TYPICAL CONCRETE REINFORCING BAR BENDS



TYPICAL VERTICAL CONTROL JOINT

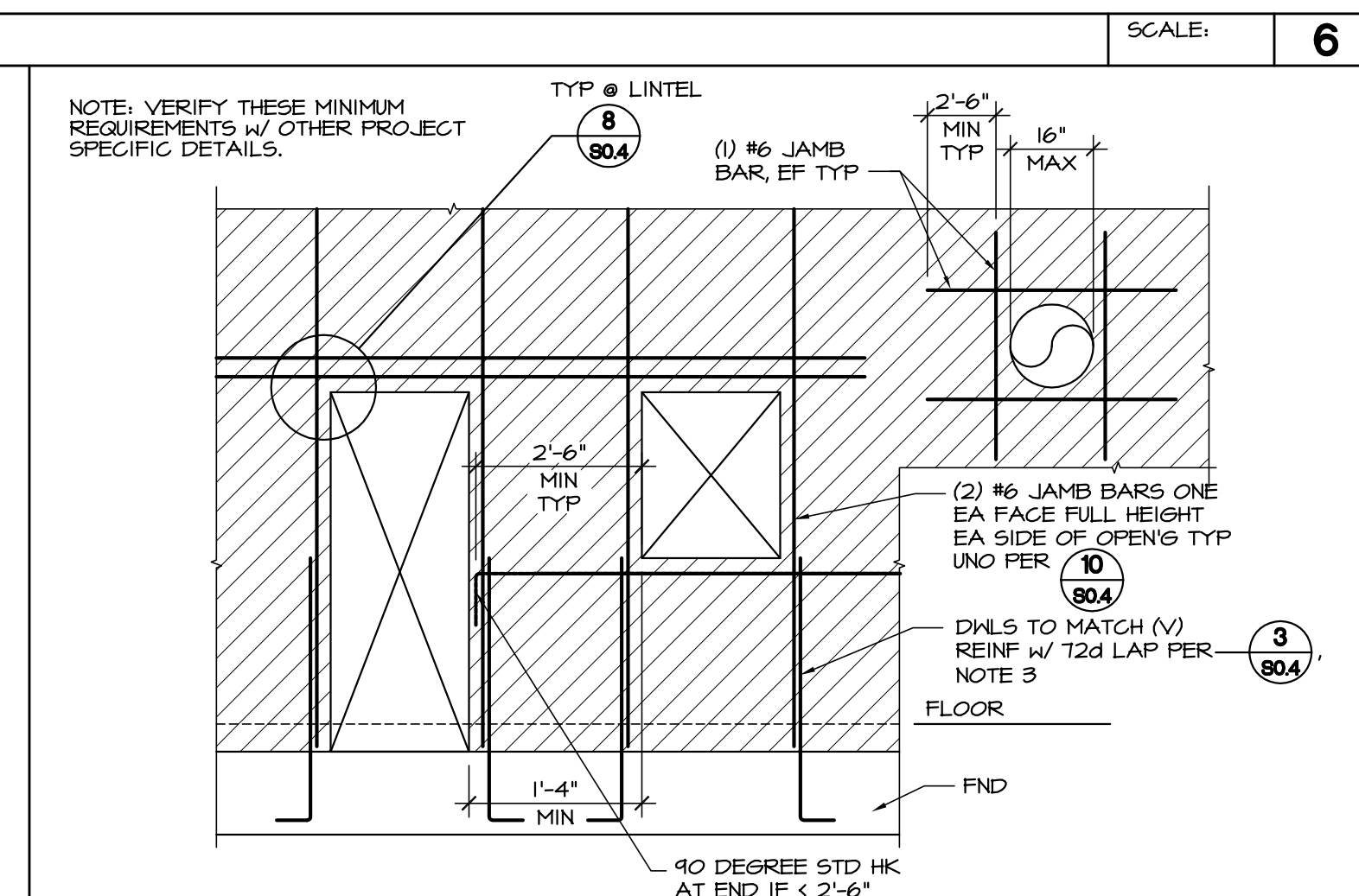


TYPICAL MASONRY WALL REBAR - PLAN VIEW



DETAIL NOT USED

TYP REINFORCEMENT AROUND CMU WALL OPENING'S

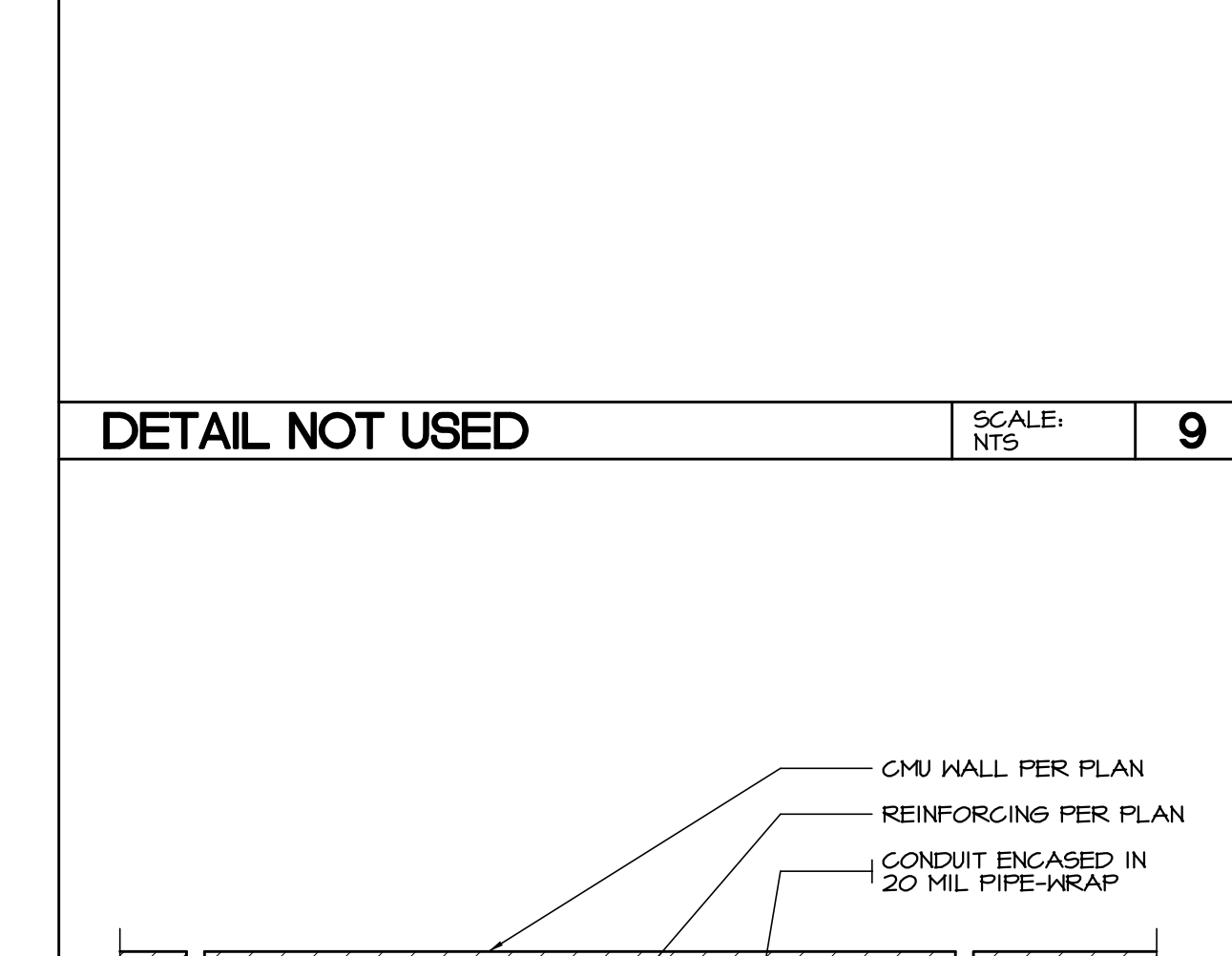


TYP REINFORCEMENT AROUND CMU WALL OPENING'S

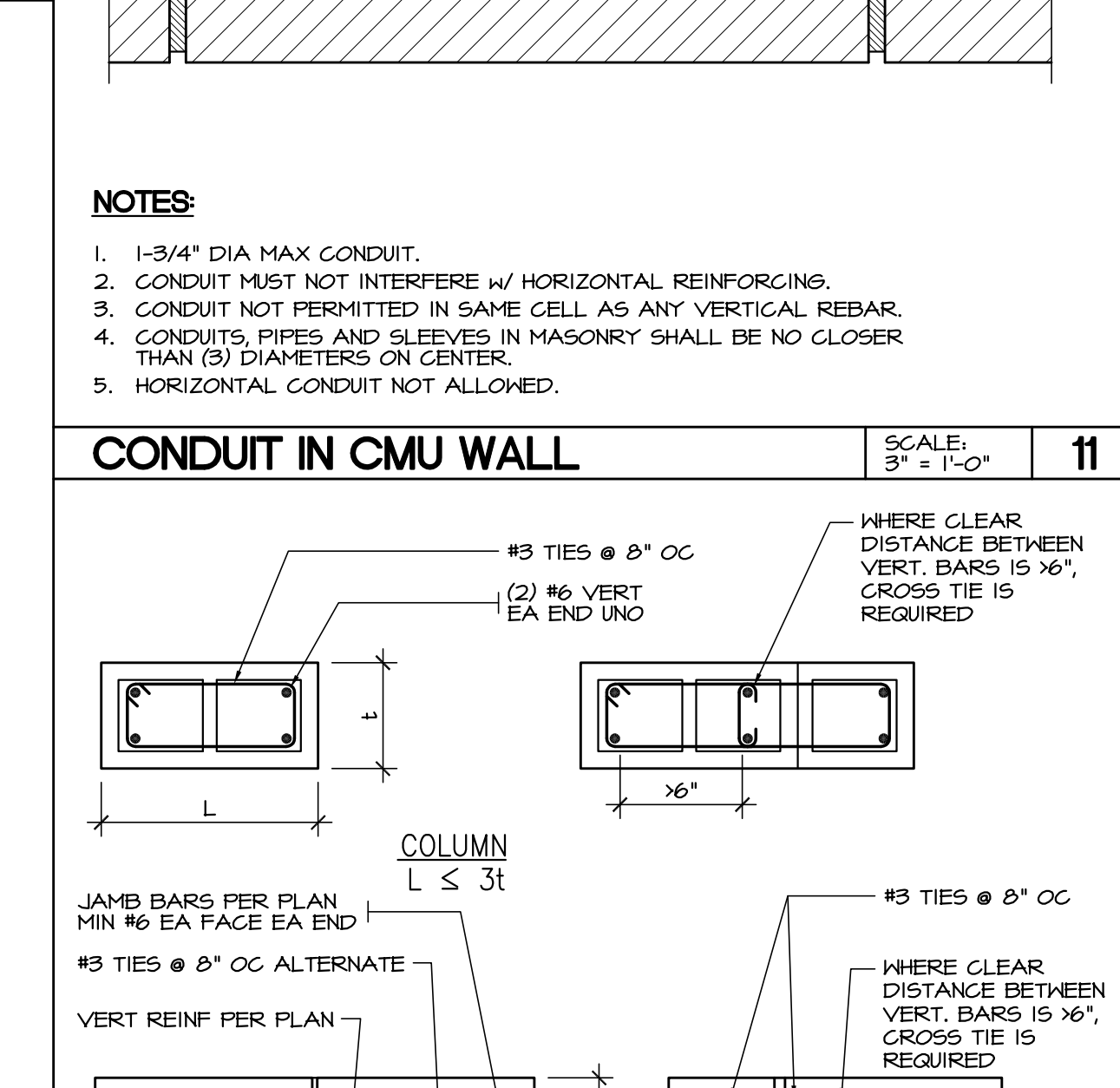
APPROVALS

CMU		BAR SIZE									
Fs		#3	#4	#5	#6	#7	#8	#9	#10		
32,000	27	36	45	54	63	72	81	90			

DETAIL NOT USED



CONDUIT IN CMU WALL



CMU WALL PIERS AND COLUMNS

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Project Title
IMPERIAL VALLEY COLLEGE RESTROOM/CONCESSION BUILDING

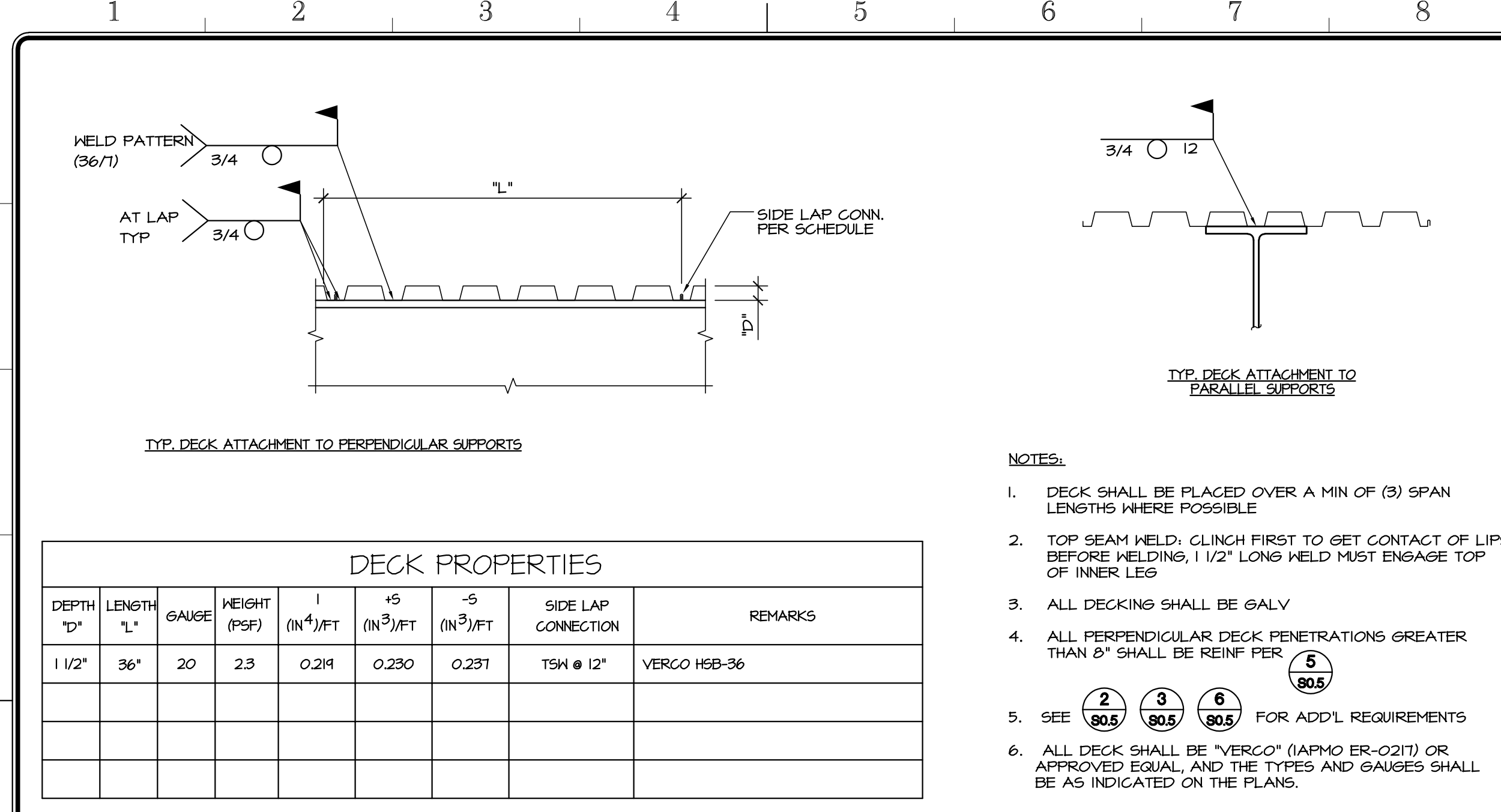
Sheet Title
TYPICAL MASONRY DETAILS

Document Date
 04-01-22

Date Last Revised

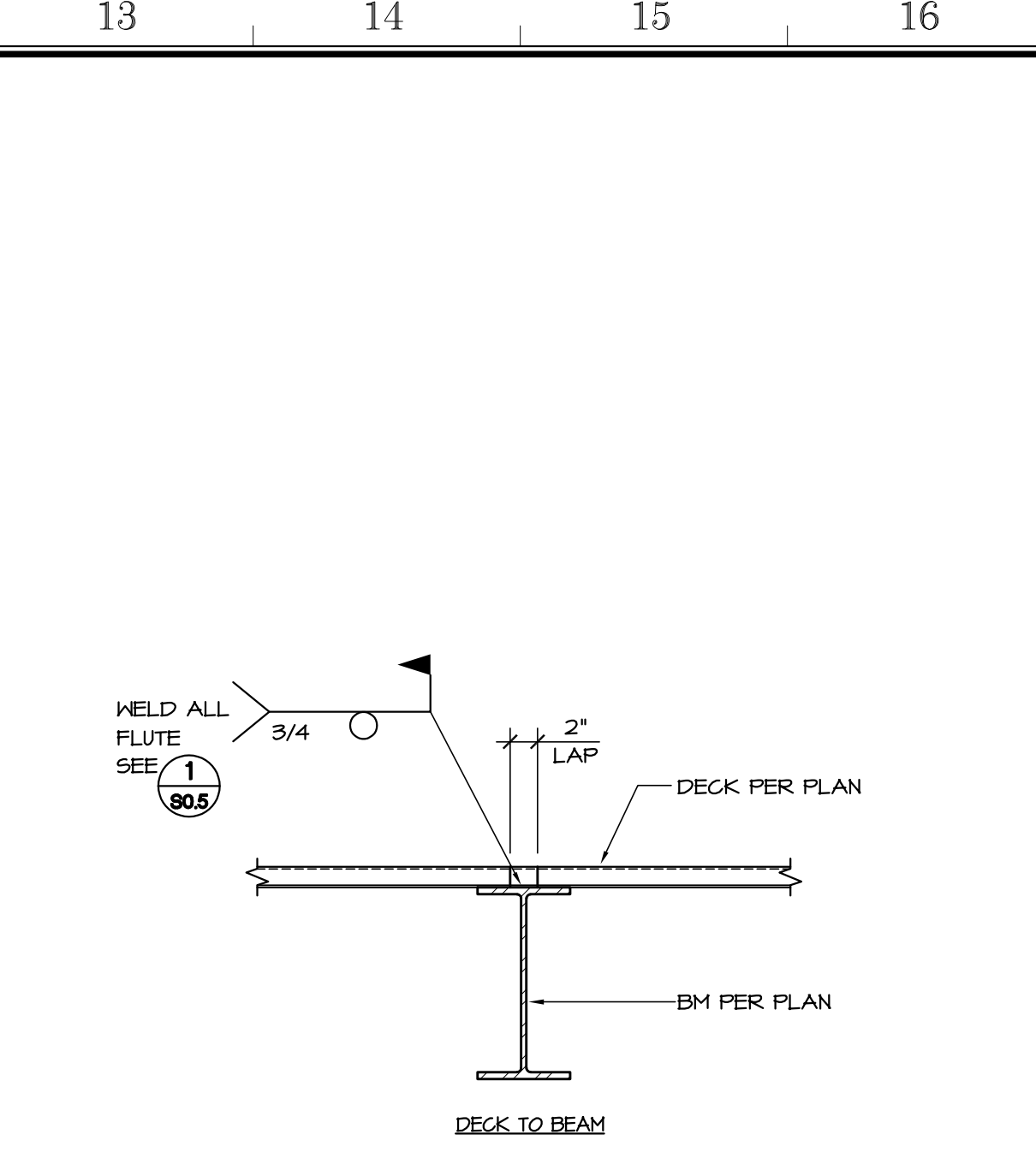
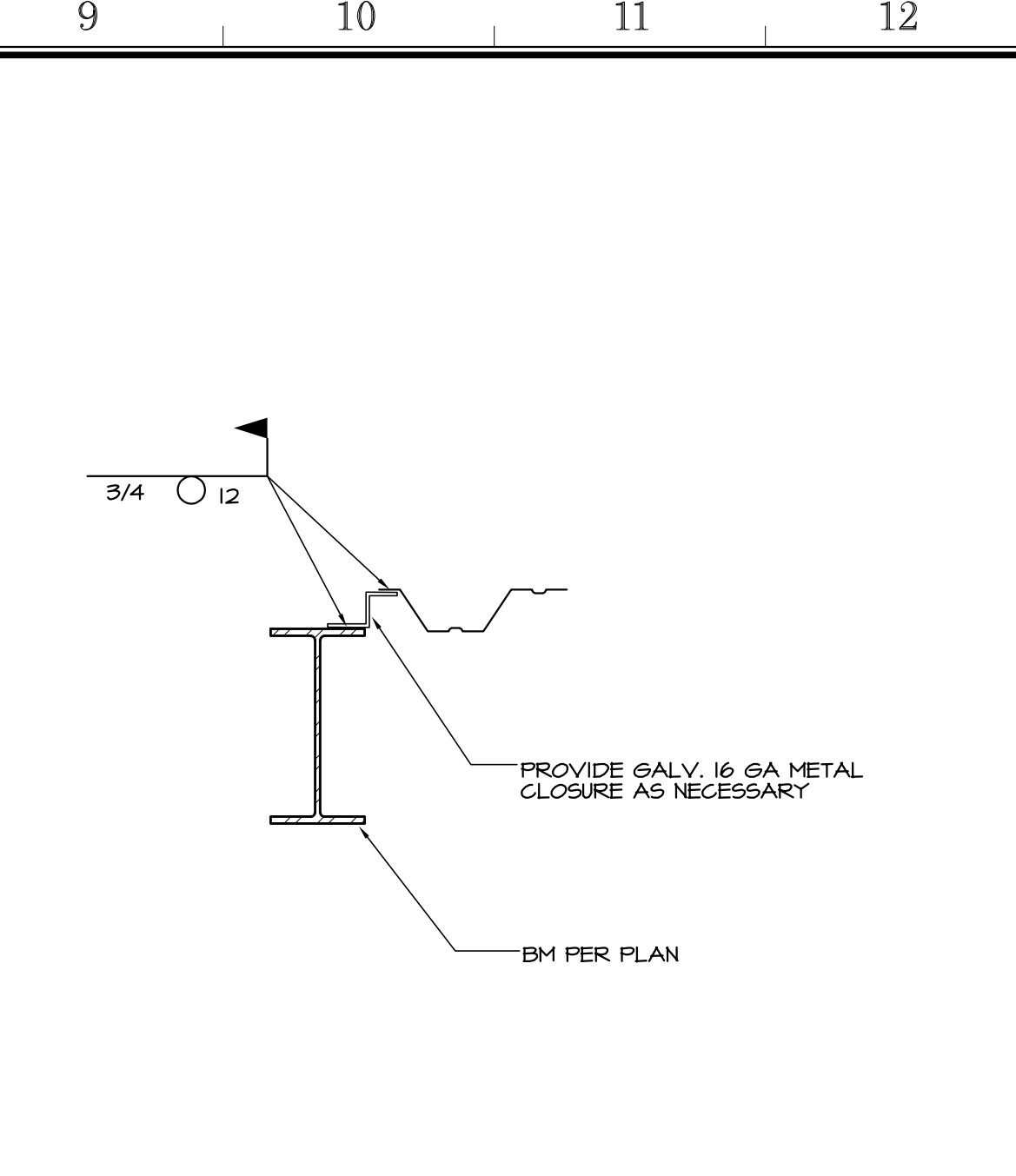
Project Number
 22-091V

Sheet Number
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DECK PROPERTIES								REMARKS
DEPTH "D"	LENGTH "L"	GAUGE	HEIGHT (PSF)	1 (IN ⁴ /FT)	5 (IN ³ /FT)	5 (IN ³ /FT)	SIDE LAP CONNECTION	
1 1/2"	36"	20	2.5	0.219	0.230	0.237	15# @ 12"	VERGO HEB-36

- NOTES:**
- DECK SHALL BE PLACED OVER A MIN OF (3) SPAN LENGTHS WHERE POSSIBLE
 - TOP SEAM WELD: CLINCH FIRST TO GET CONTACT OF LIPS BEFORE WELDING. 1 1/2" LONG WELD MUST ENGAGE TOP OF INNER LEG
 - ALL DECKING SHALL BE GALV
 - ALL PERPENDICULAR DECK PENETRATIONS GREATER THAN 8" SHALL BE REINF PER (5) (805)
 - SEE (2) (805), (3) (805), (4) (805) FOR ADD'L REQUIREMENTS
 - ALL DECK SHALL BE "VERGO" (APMO ER-021) OR APPROVED EQUAL, AND THE TYPES AND GAUGES SHALL BE AS INDICATED ON THE PLANS.



REGISTERED PROFESSIONAL ENGINEER
 CIVIL & ARCHITECTURE
 No. 54226
 STATE OF CALIFORNIA
For Plan Check Only
 December 31, 2022

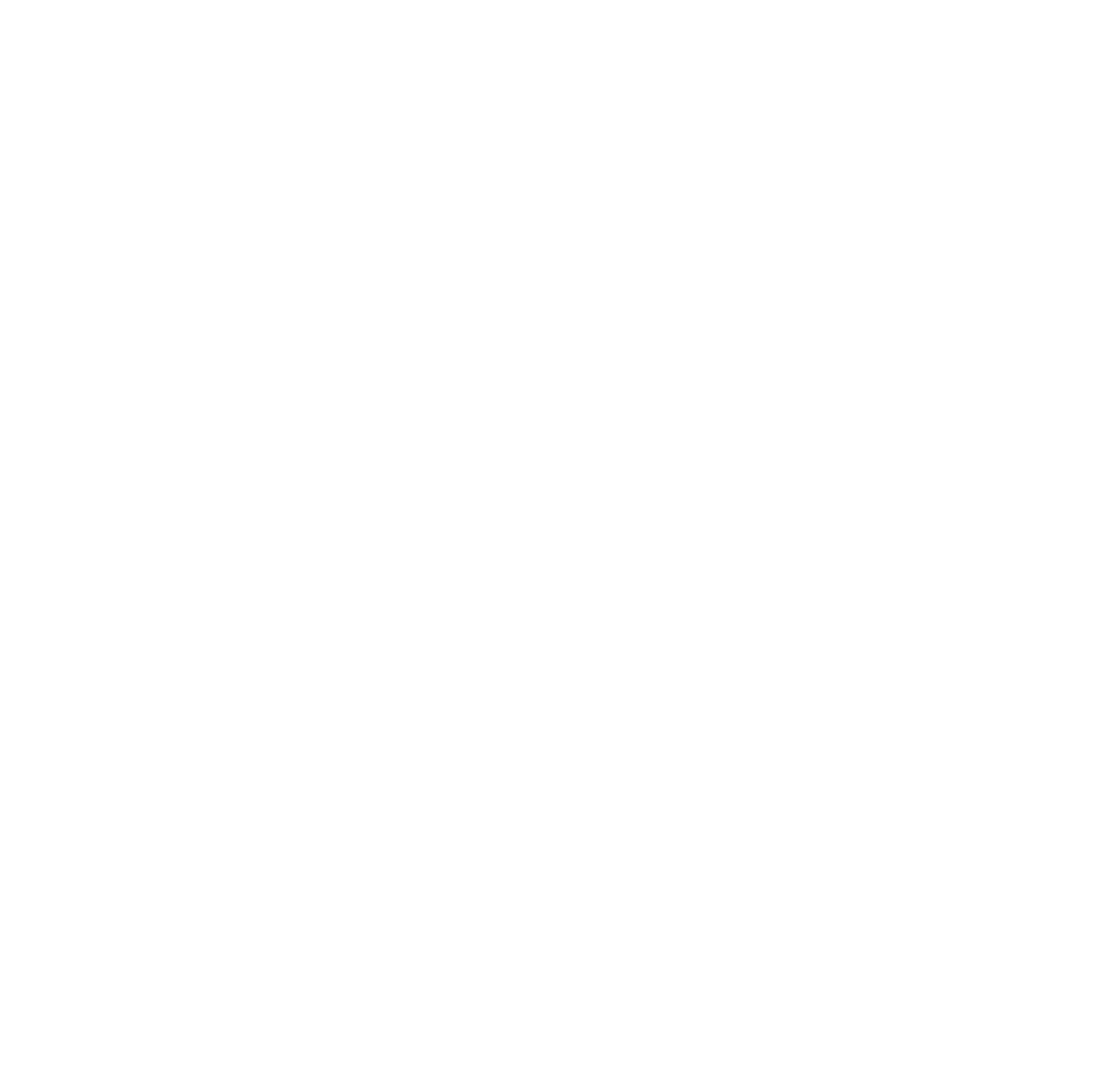
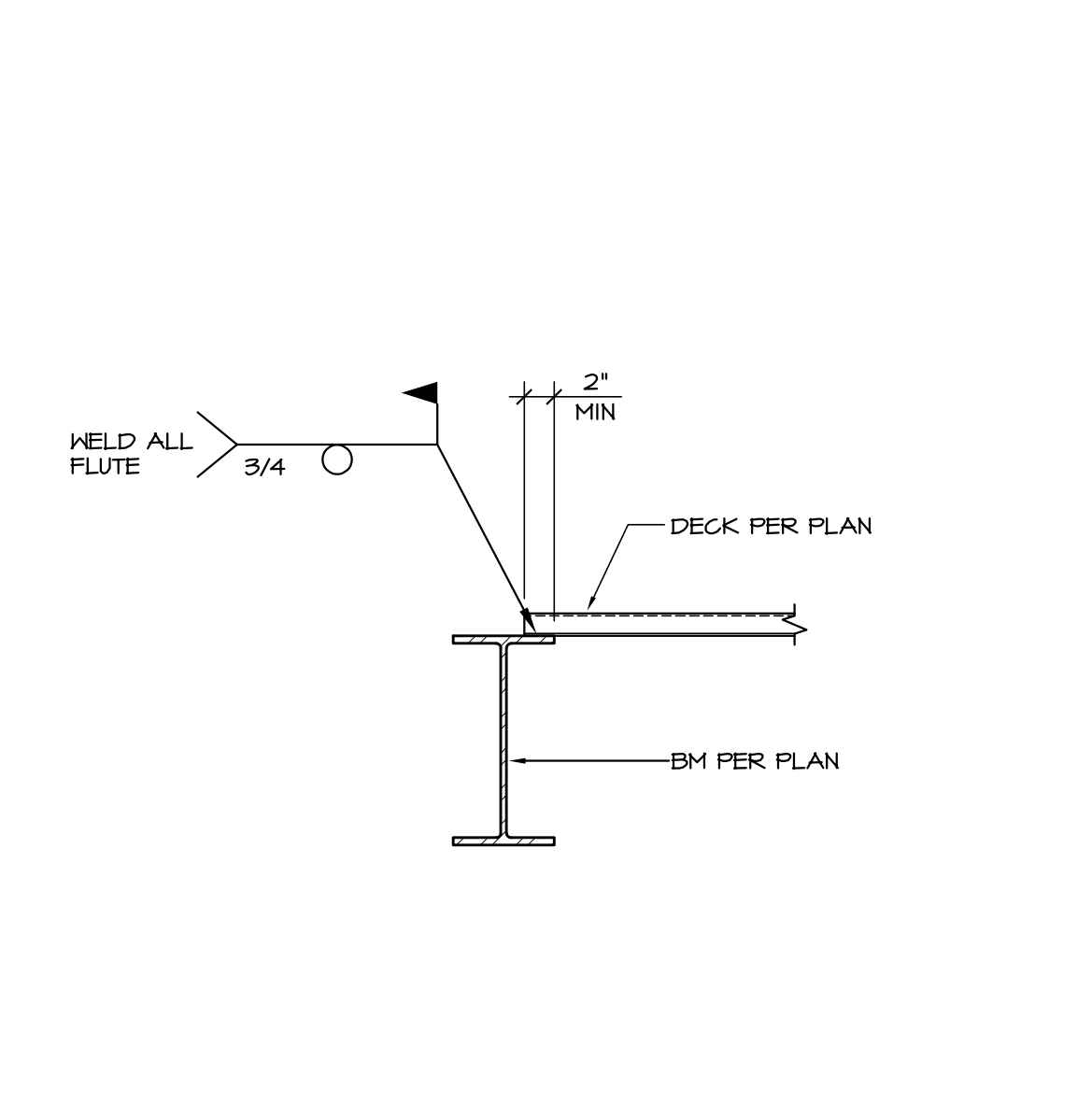
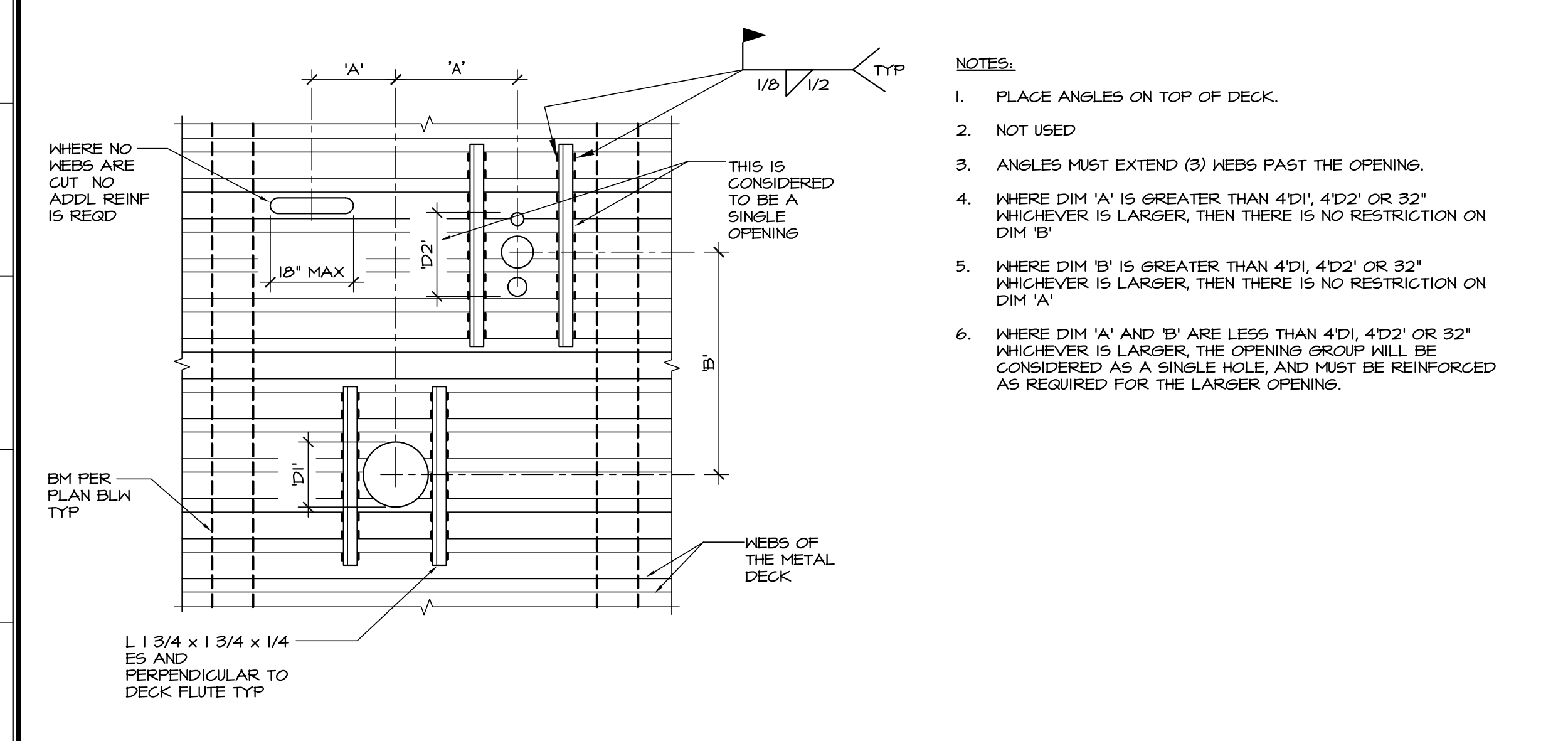
APPROVALS

TYPICAL ROOF DECK PROPERTIES AND WELDS SCALE: NTS 1

ROOF DECK LAP SCALE: NTS 2

ROOF DECK LAP SCALE: NTS 3

DETAIL NOT USED SCALE: NTS 4

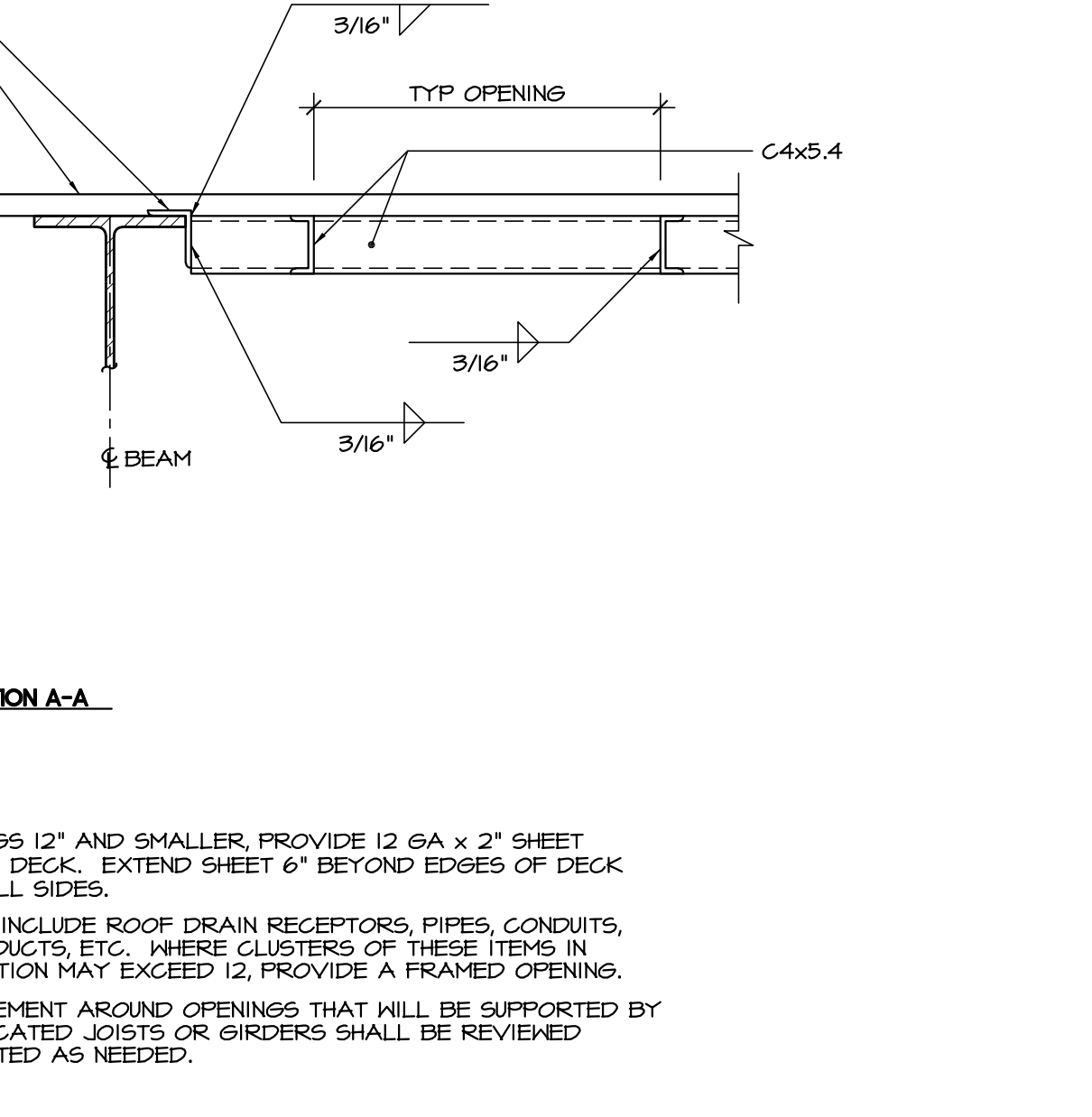
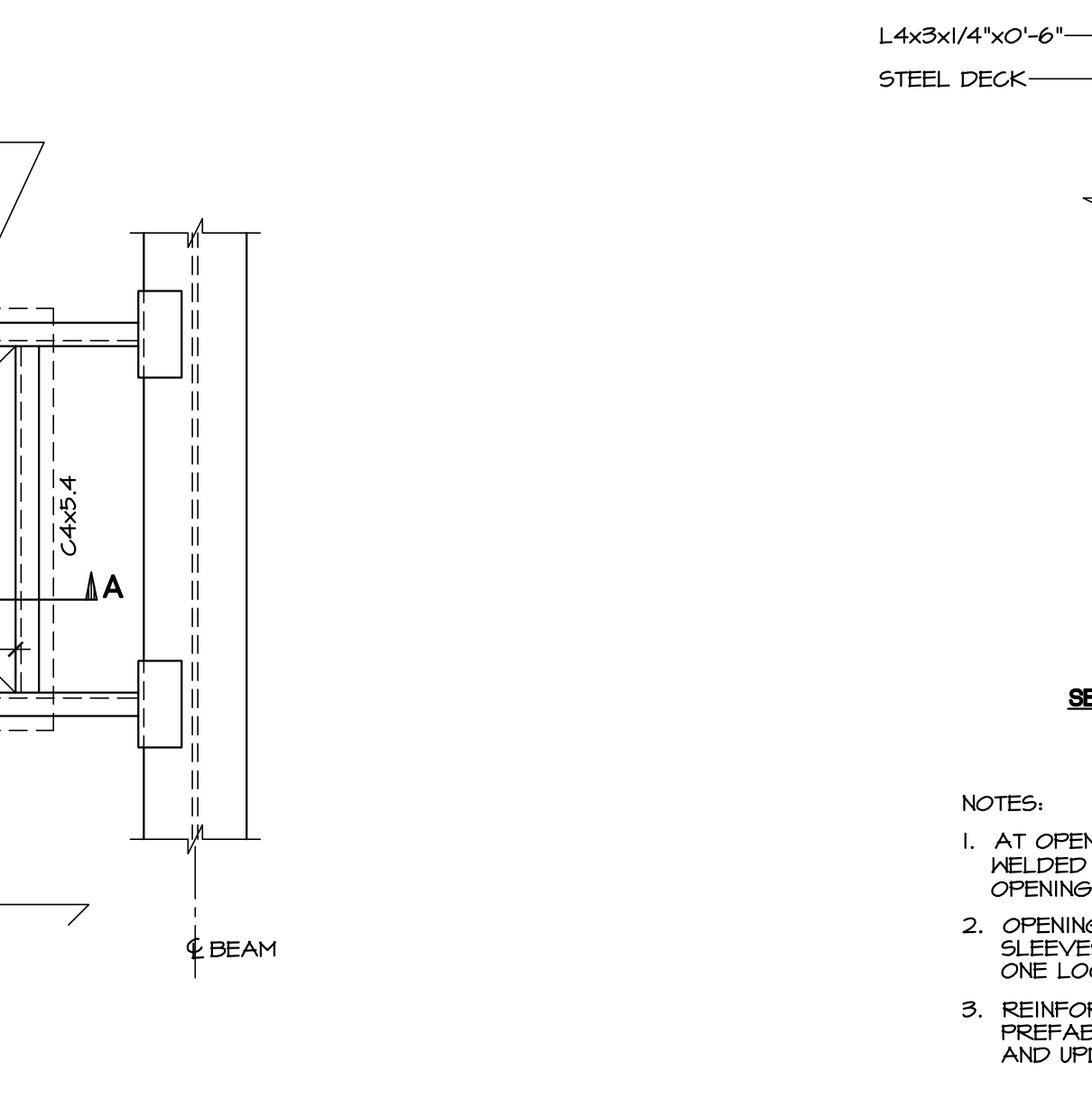
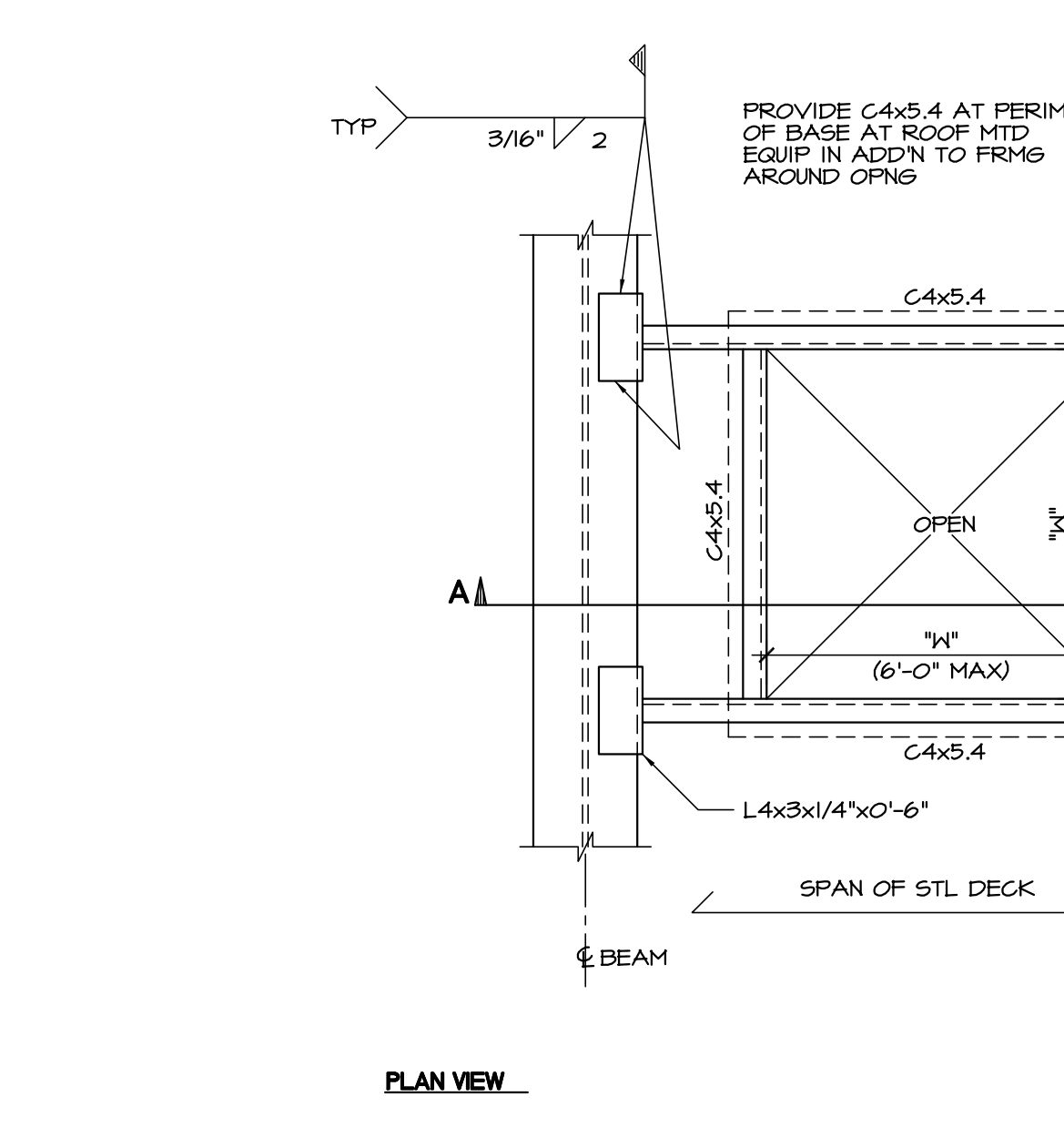
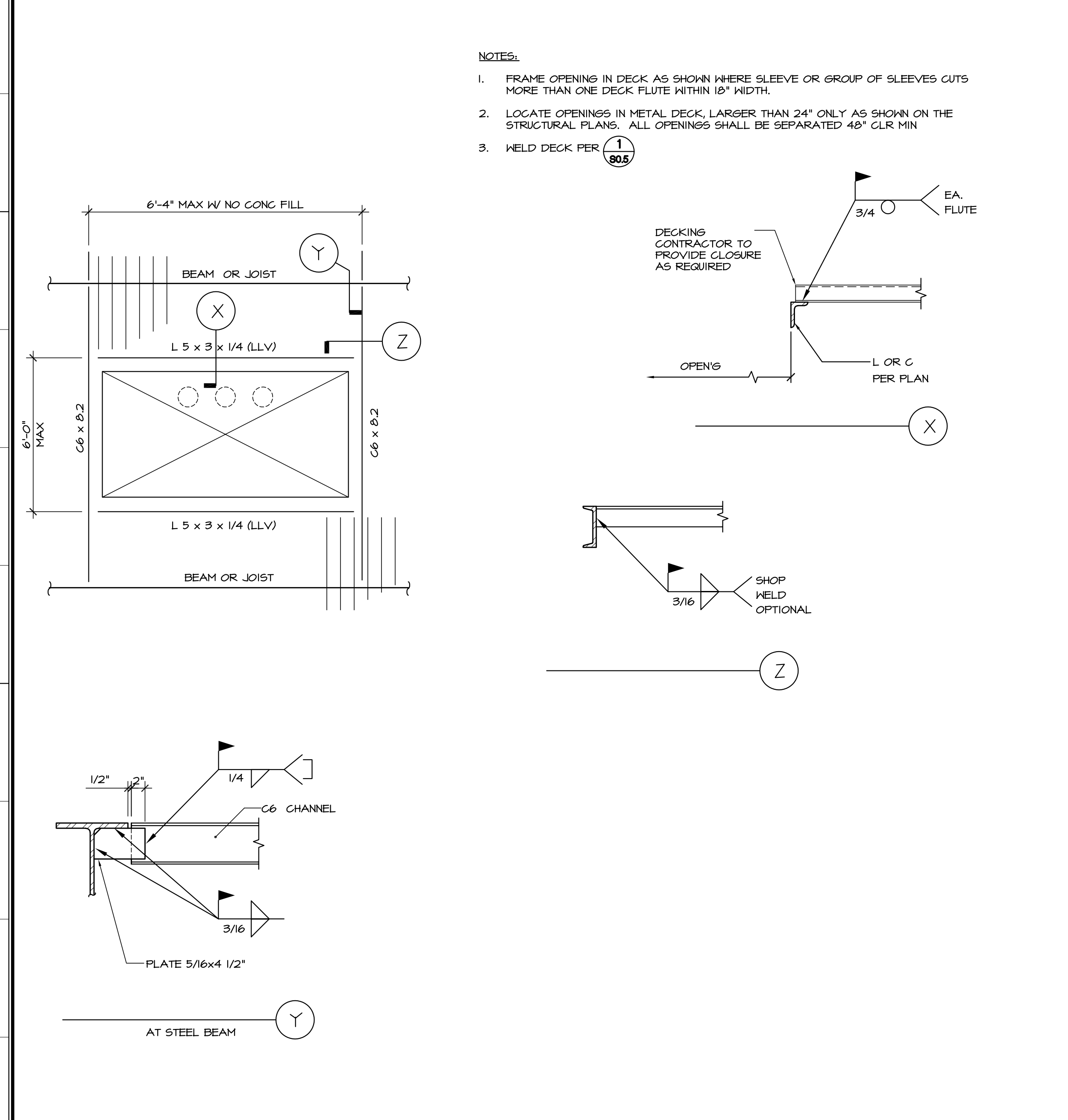


TYP. SMALL OPENING IN W/ HOLES CUTTING NO MORE THAN (3) ADJ. WEBS - 'B' TYPE DECK SCALE: NTS 5

ROOF DECK WELDING SCALE: NTS 6

DETAIL NOT USED SCALE: NTS 7

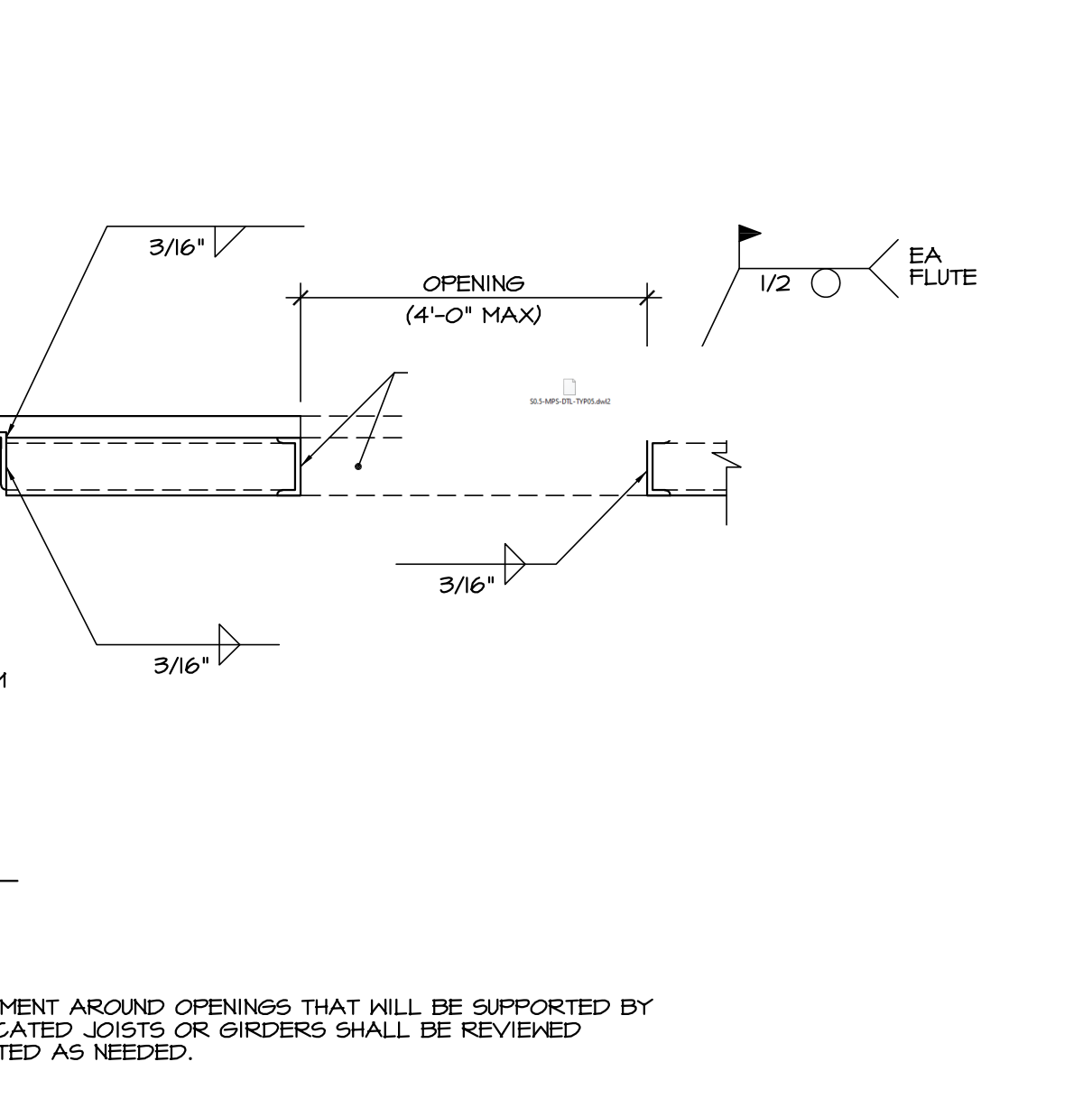
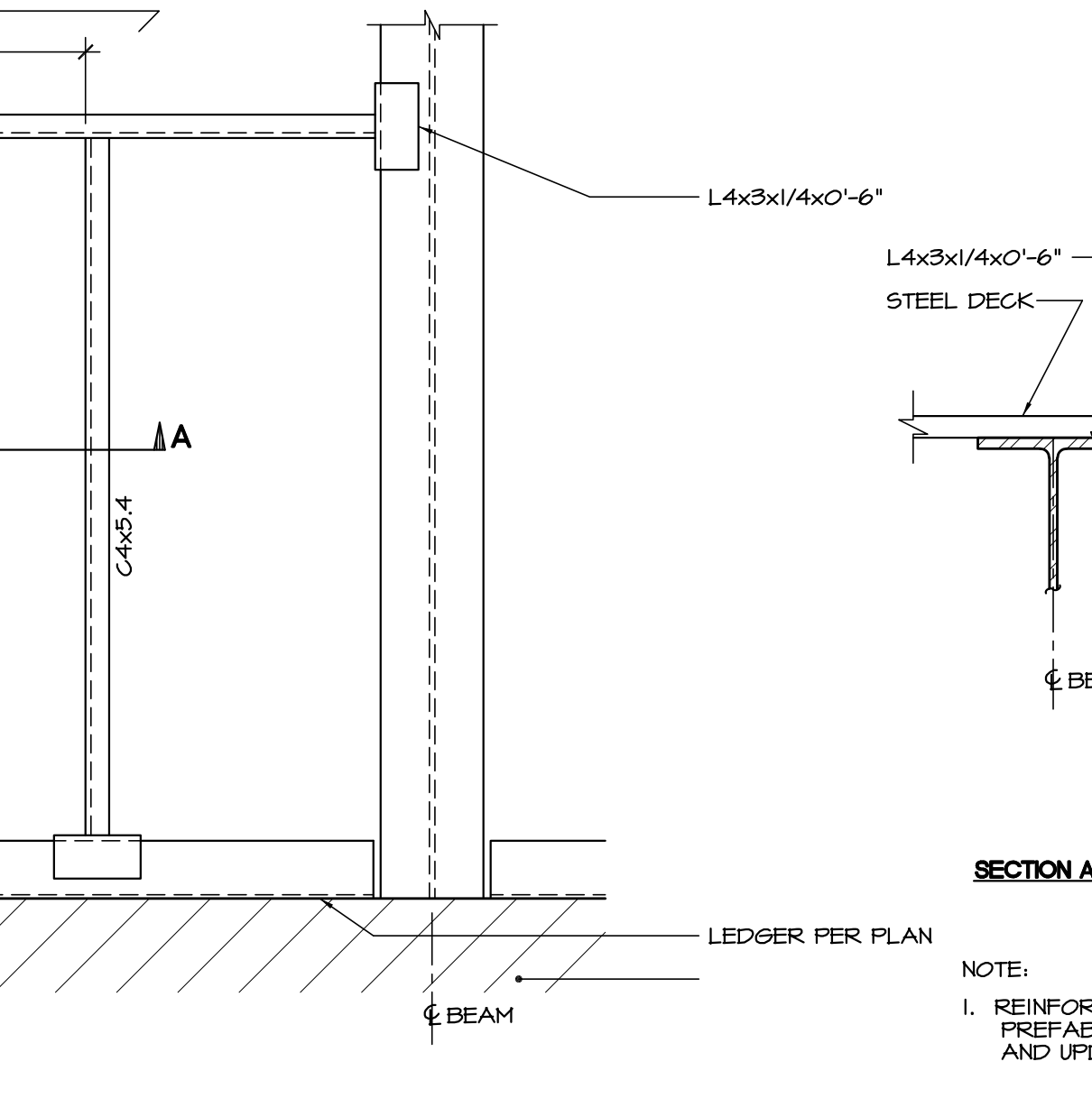
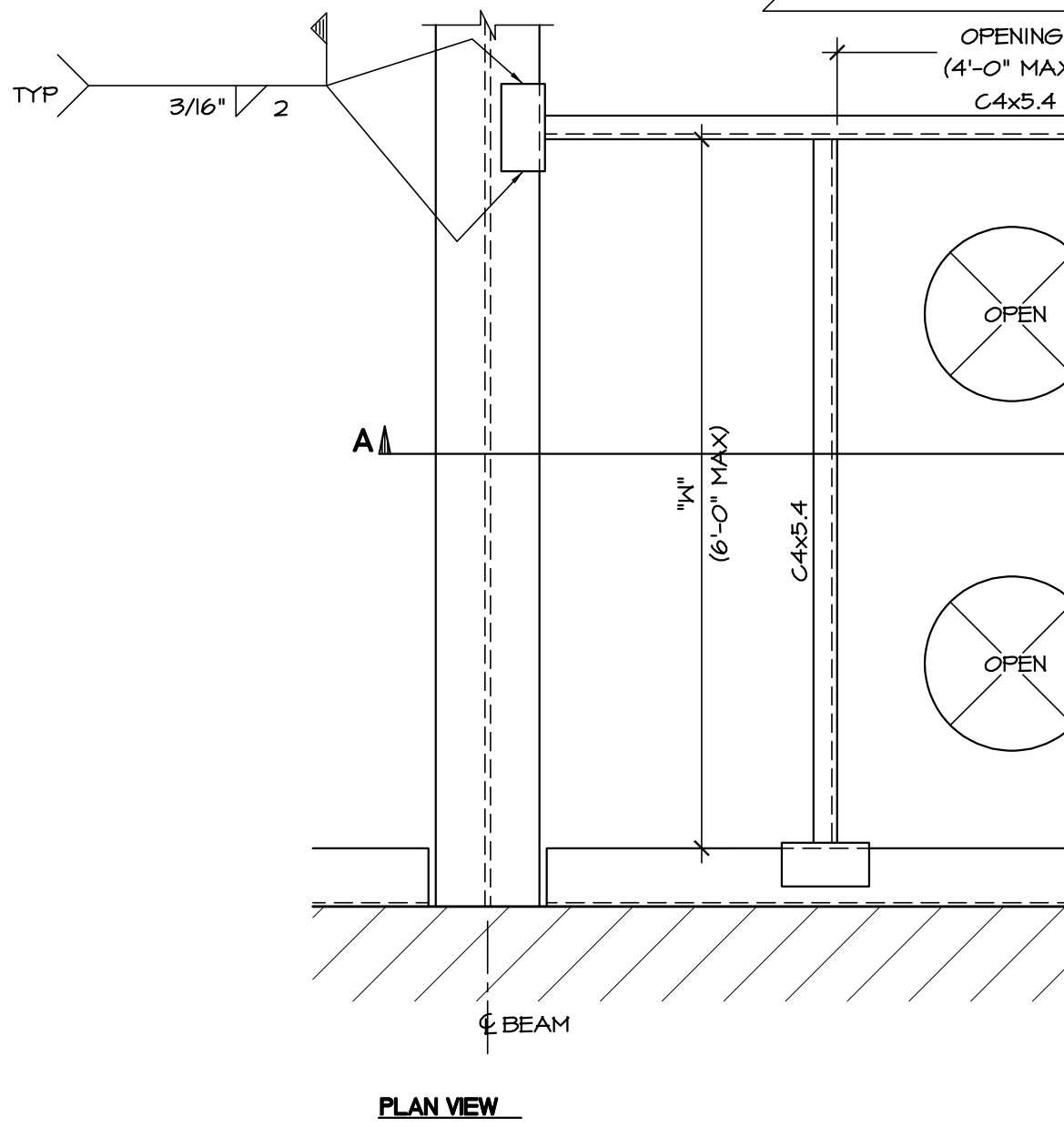
DETAIL NOT USED SCALE: NTS 7



LARGER HOLES, RECTANGULAR OR SQUARE SCALE: NTS 9

DETAIL NOT USED SCALE: NTS 9

DETAIL NOT USED SCALE: NTS 9



TYPICAL LARGE METAL DECK OPENINGS SCALE: NTS 8

ROOF DRAIN IN STEEL DECK SCALE: NTS 10

DETAIL NOT USED SCALE: NTS 10

DETAIL NOT USED SCALE: NTS 10

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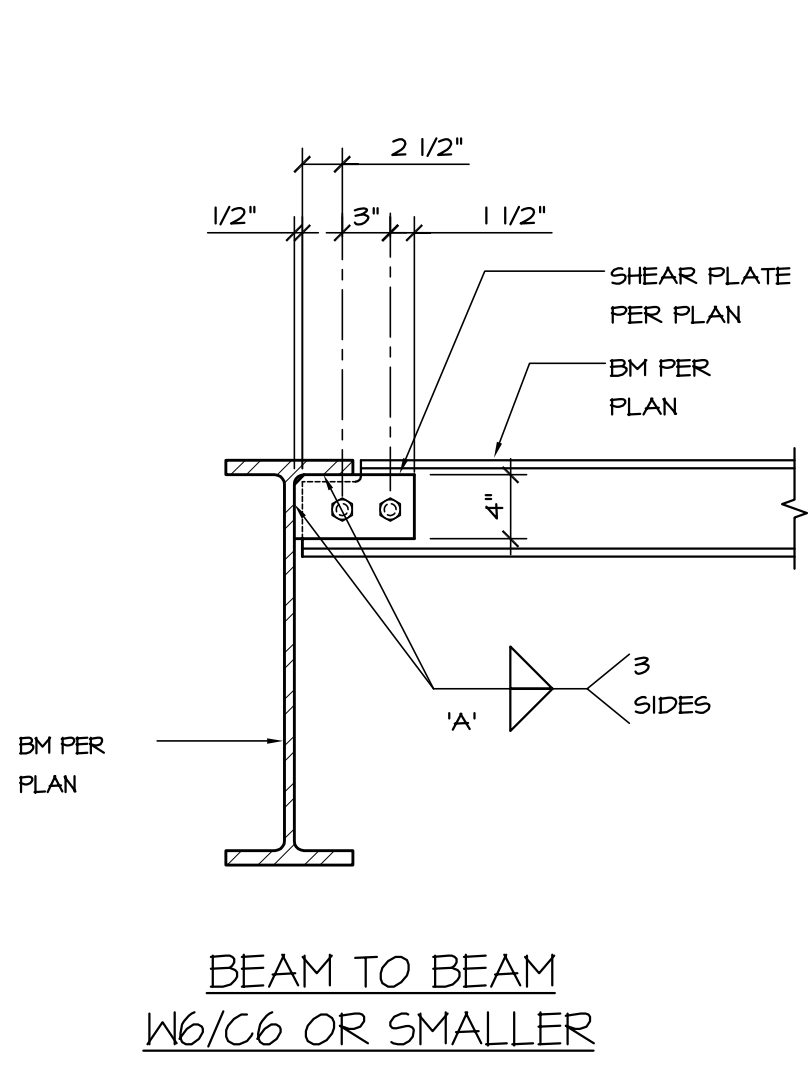
Project Title
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Sheet Title
TYPICAL METAL DECK DETAILS

	Document Date	Project Number
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		S0.5

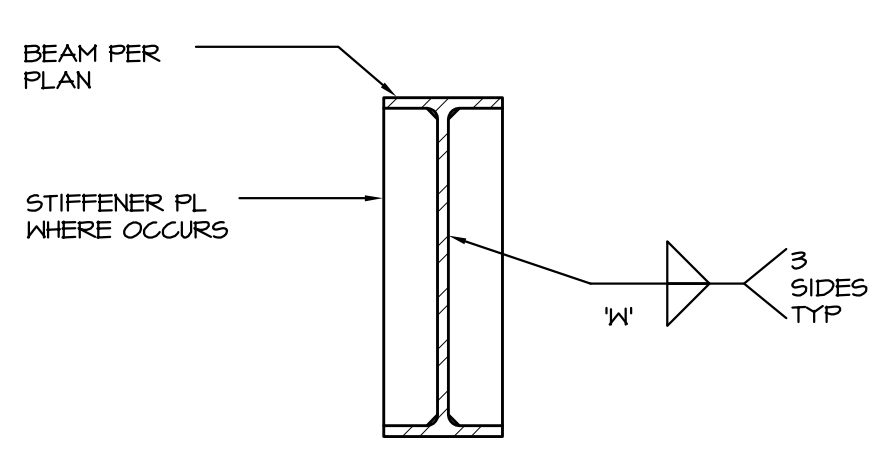
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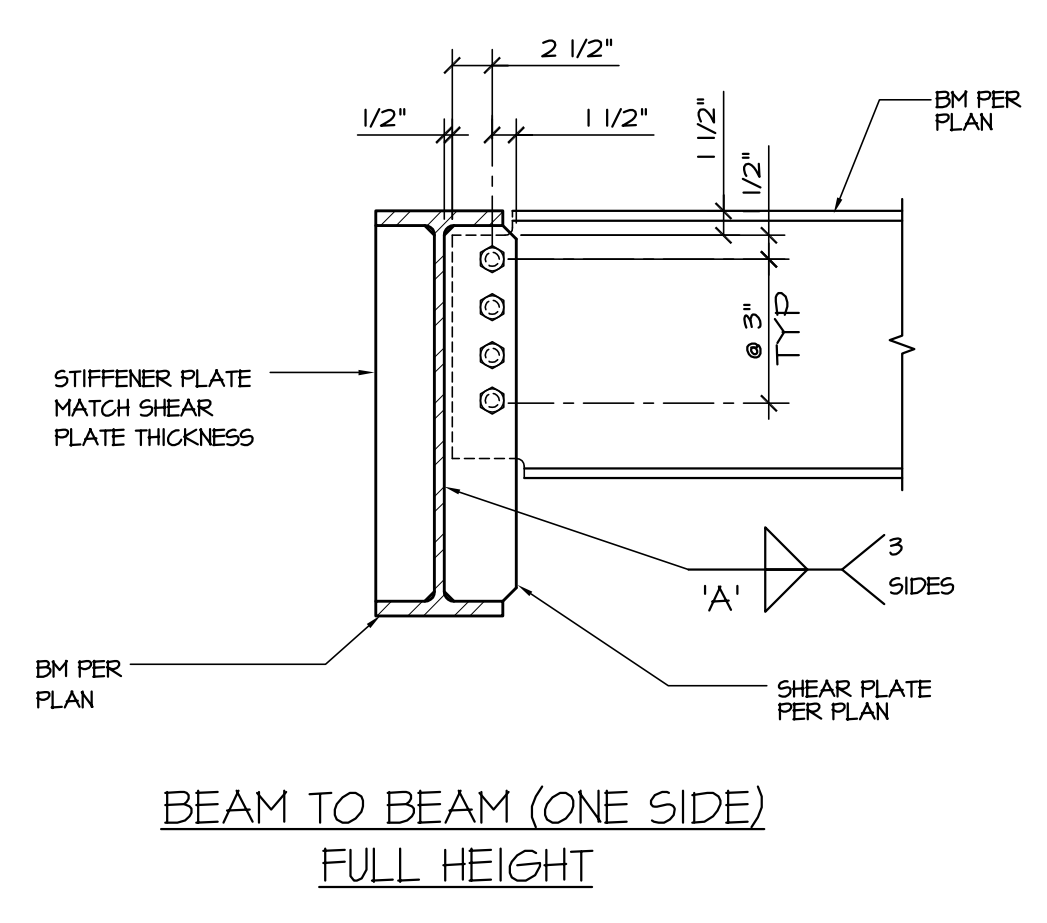
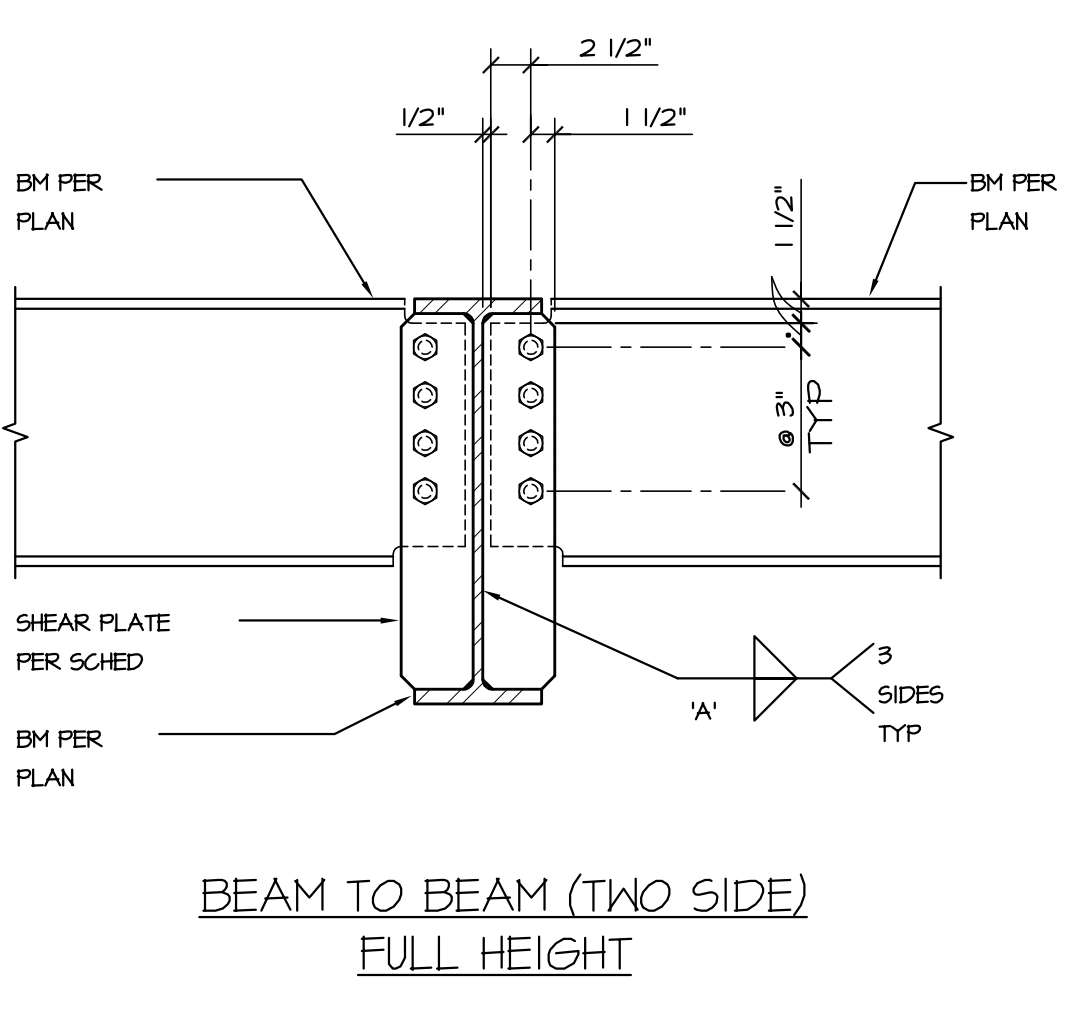
STEEL BEAM CONNECTION SCHEDULE						
STEEL BEAM DEPTH	SHEAR PLATE THICKNESS	BOLTS			WELD 'A'	REMARKS
		NUMBER	DIAMETER	TYPE		
W 6/C6	1/4"	2	3/4"	A325N	1/4"	
W 8/C8	1/4"	2	3/4"	A325N	1/4"	
W 10x	1/4"	2	3/4"	A325N	1/4"	
W 12x	1/4"	3	7/8"	A325N	1/4"	
W 14x	3/8"	3	7/8"	A325N	1/4"	
W 16x	3/8"	4	7/8"	A325N	5/16"	
W 18x	3/8"	5	7/8"	A325N	5/16"	
W 21x	3/8"	6	7/8"	A325N	5/16"	
W 24x	3/8"	7	7/8"	A325N	5/16"	
W 27x	3/8"	8	7/8"	A325N	3/8"	
W 30x	1/2"	4	7/8"	A325N	3/8"	
W 33x	1/2"	10	7/8"	A325N	3/8"	
W 36x	1/2"	10	1"	A325N	7/16"	

- NOTES:
1. SLOTTED HOLES ARE NOT PERMITTED, UON.
 2. SPECIAL INSPECTION IS REQUIRED FOR HIGH STRENGTH BOLTS (A-325)



STIFFENER PLATE SCHEDULE		
STIFFENER PLATE THICKNESS	WELD	REMARKS
3/16"	3/16"	
1/4"	3/16"	
5/16"	3/16"	
3/8"	3/16"	
1/2"	1/4"	

TYPICAL STIFFNER PL CONN SCALE: N.T.S. 2



TYPICAL STEEL BEAM CONNECTION AND SCHEDULE SCALE: N.T.S. 1

APPROVALS

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Project Title
**IMPERIAL VALLEY COLLEGE
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Sheet Title
TYPICAL STEEL DETAILS

	Document Date 04-01-22	Project Number 22-091V
	Date Last Revised	Sheet Number S0.6

COLUMN FOOTING SCHEDULE									
MARK	DIMENSION	DEPTH	REINFORCING TRANSVERSE			REINFORCING LENGTHWISE			REF DETAIL
			NO	SIZE	SPACING	NO	SIZE	SPACING	
(FI)	3'-0" x 3'-0"	2'-0"	4 T4B	#5	EQUAL	4 T4B	#5	EQUAL	10/SK1.1

KEYNOTES:

- ① SLAB CONTROL JOINT OR CONSTRUCTION JOINT (8/30.3)

WALL TYPES

- 8" CMU WALL
- STUD WALL PER ARCHITECTURAL WITH 6" HIGH CONCRETE CURB
- STUD WALL PER ARCHITECTURAL

LEGEND:

- CMU WALL ELEVATION w/ SHEET REFERENCED
- FOOTING PER PLAN
- FLOOR DRAIN - SEE PLUMBING DRAWINGS 2% MAX SLOPE TO DRAIN
- PAD FOOTING PER SCHEDULE

NOTES:

- MIN FOOTING FOR WORK - SEE DETAIL (5/30.3)
- VERIFY ALL DIMENSIONS w/ DIMENSIONAL FLOOR PLAN.
- CONTRACTOR SHALL USE MACHINE VIBRATOR WHEN PLACING CONCRETE IN FOOTINGS AND CURBS.
- NO WOOD OR STEEL STAKES SHALL BE PERMITTED IN FOOTINGS.
- DIMENSIONS ARE SYMMETRICAL UNO.
- NEW SLAB ON GRADE TO BE 5" THICK CONCRETE SLAB w/ #4 BAR @ 16" OC EACH WAY OVER 2" OF SAND AND 10 MIL VAPOR BARRIER (8/30.3)

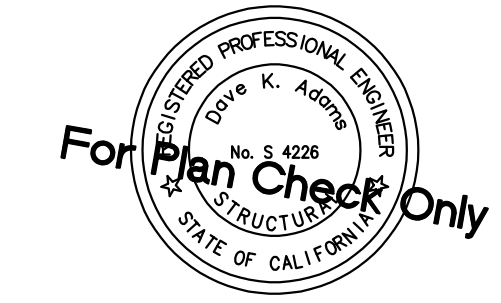
KEYNOTES:

- ① L4x4x1/4 STEEL ANGLE LEDGER
- ② STEEL DECK - 1-1/2" HSB-36 (8/30.5)
- ③ ROOF ACCESS HATCH PER PLAN (9/30.5)
- ④ ROOF DRAIN - SEE ROOF PLAN FOR EXACT LOCATION (9/30.5)
- ⑤ DOOR / WINDOW EYEBROW (2/30.2)
- ⑥ C12 x 20.7 CHANNEL LEDGER
- ⑦ C6x8.2
- ⑧ C12x20.7 CHANNEL
- ⑨ (2) C12x20.7 CHANNELS
- ⑩ H8x35 STEEL COLUMN
- ⑪ C6x13 CHANNEL
- ⑫ C10x15.3 CHANNEL
- ⑬ H4x35
- ⑭ M6x18.7 DRAG BLOCKING, TYP. AT LINES 2 AND 3 (LAID FLAT)
- ⑮ NON BEARING CMU WALL BELOW
- ⑯ BEARING CMU WALL BELOW

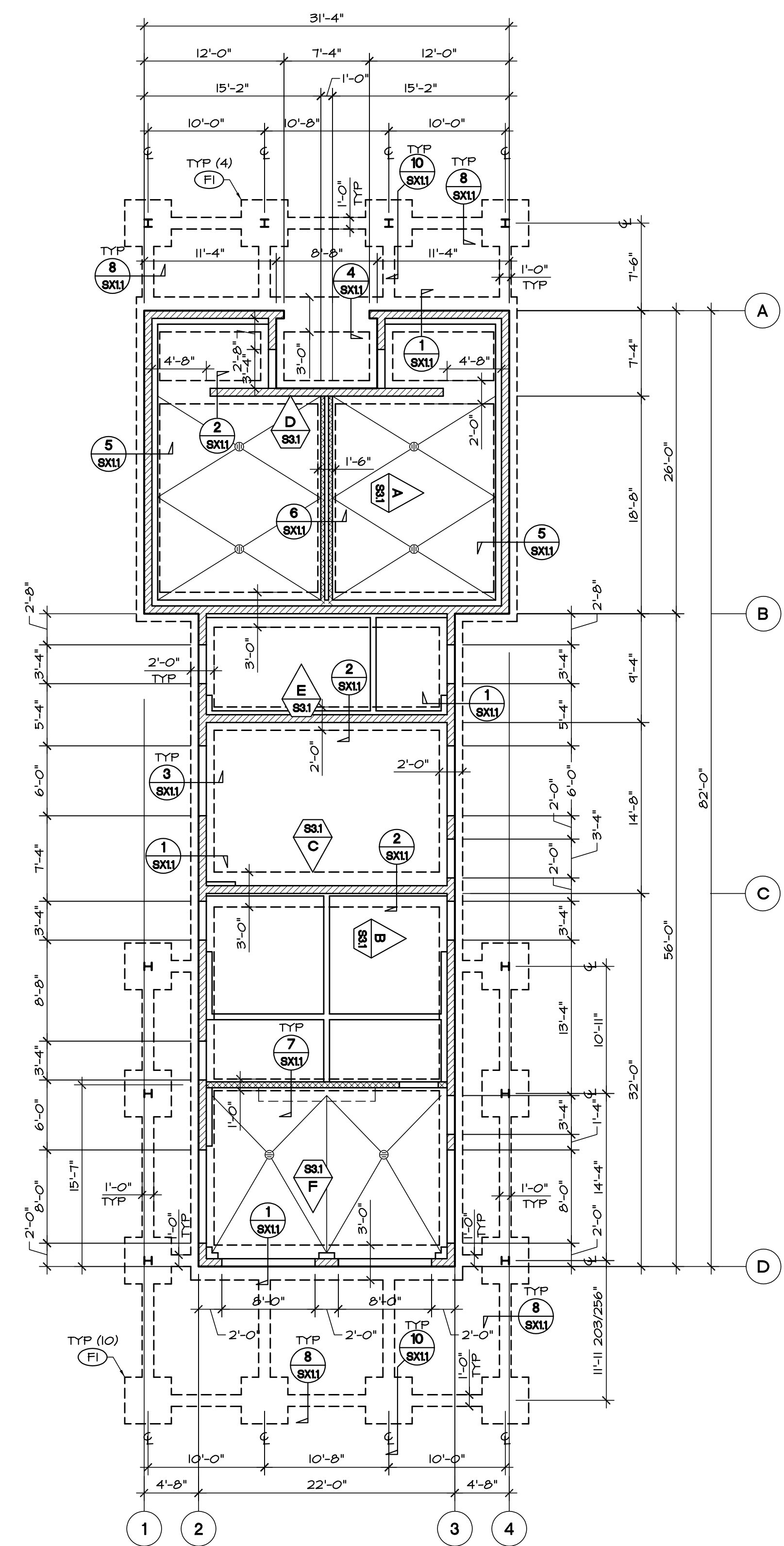
NOTES:

- SEE SITE PLAN FOR BUILDING ORIENTATION.
- SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
- SEE (1/30.2) FOR ROOF MOUNTED HVAC EQUIPMENT.
- ROOF EQUIPMENT DEAD LOADS: MECHANICAL LOADS

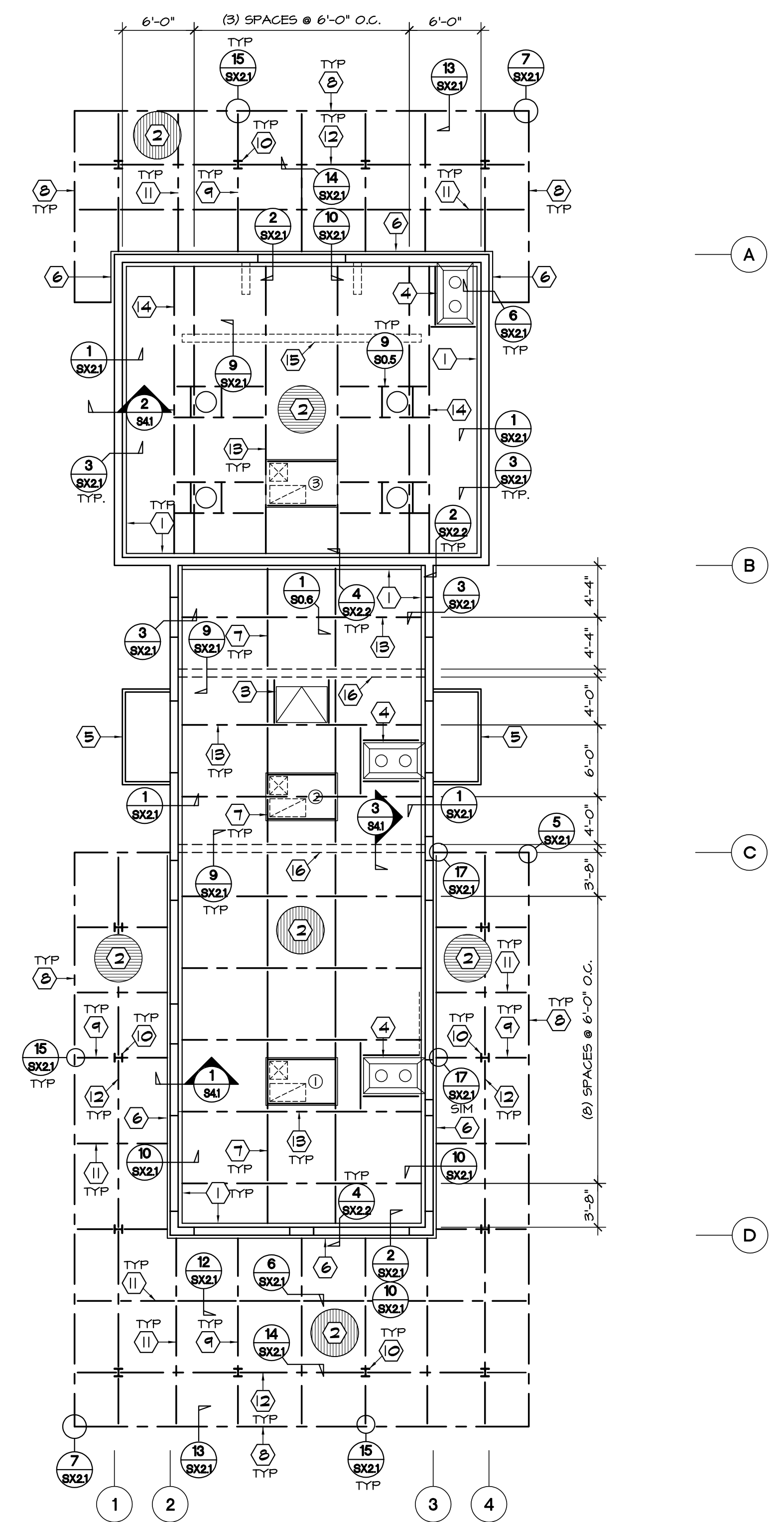
① HVAC PACKAGE UNIT	HP-1	626 lb
② HVAC PACKAGE UNIT	HP-2	330 lb
③ HVAC PACKAGE UNIT	HP-3	620 lb
- ① 21" TUBULAR SKYLIGHT (WINDOW NUMBER NOTED) 30 lb



APPROVALS



FOUNDATION PLAN



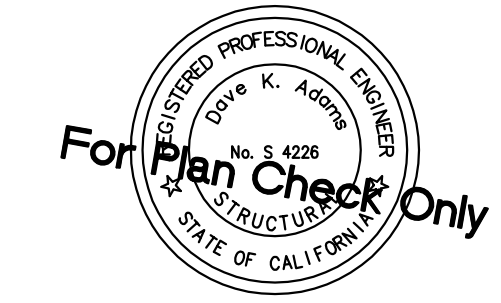
FRAMING PLAN

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Project Title
**IMPERIAL VALLEY COLLEGE
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Sheet Title
FOUNDATION AND FRAMING PLAN

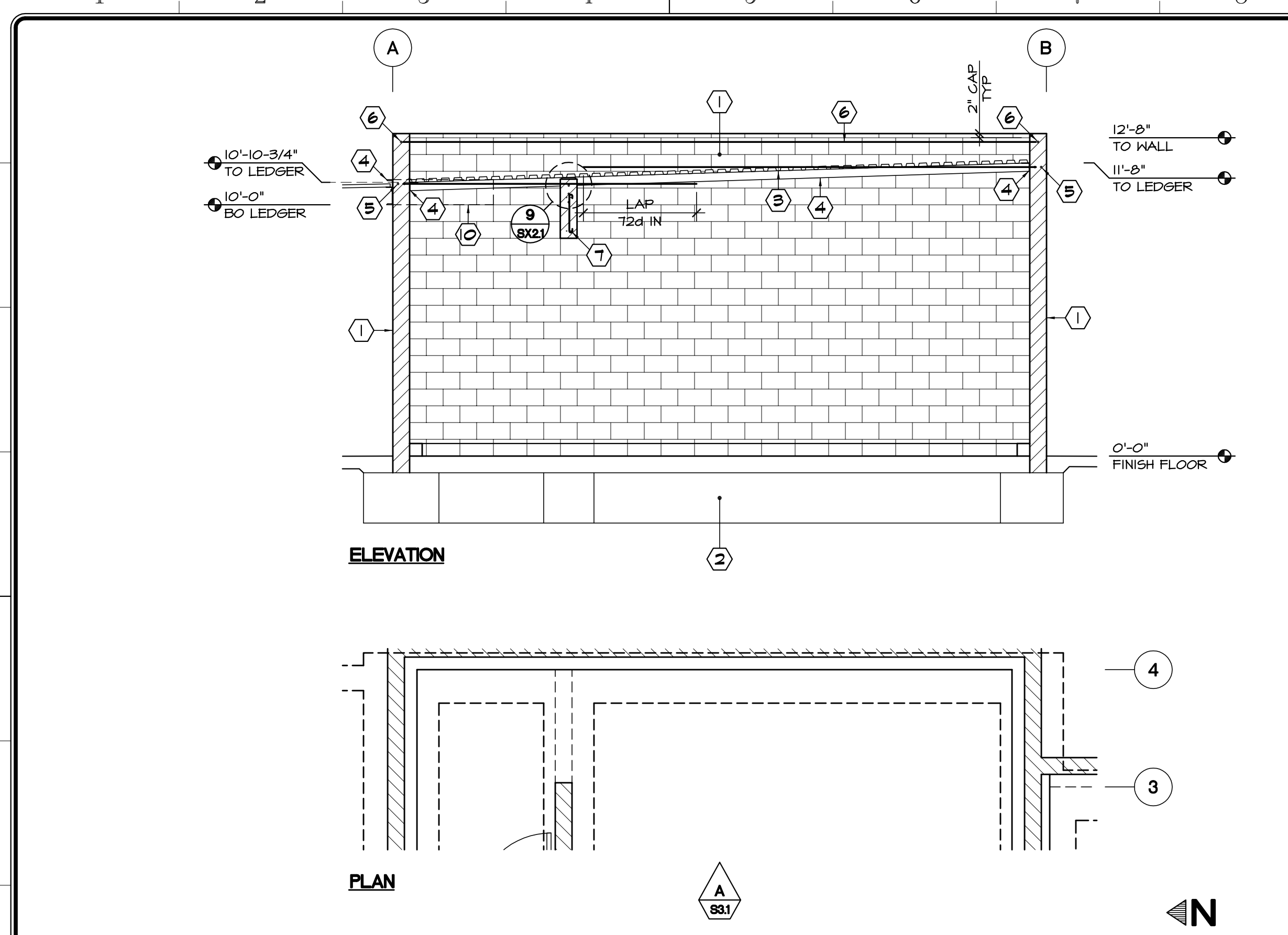
	Document Date 04-01-22	Project Number 22-091V
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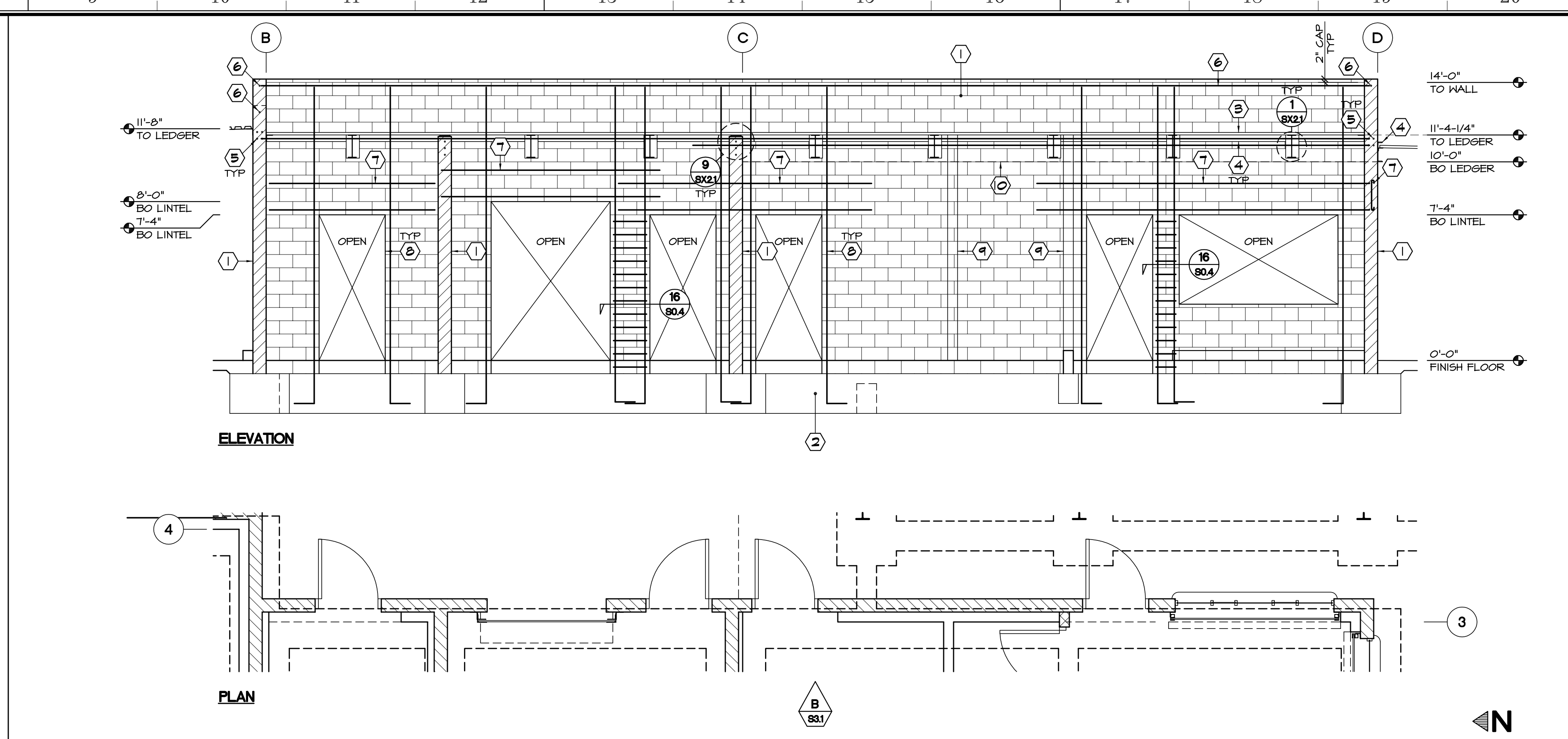
APPROVALS

KEYNOTES:

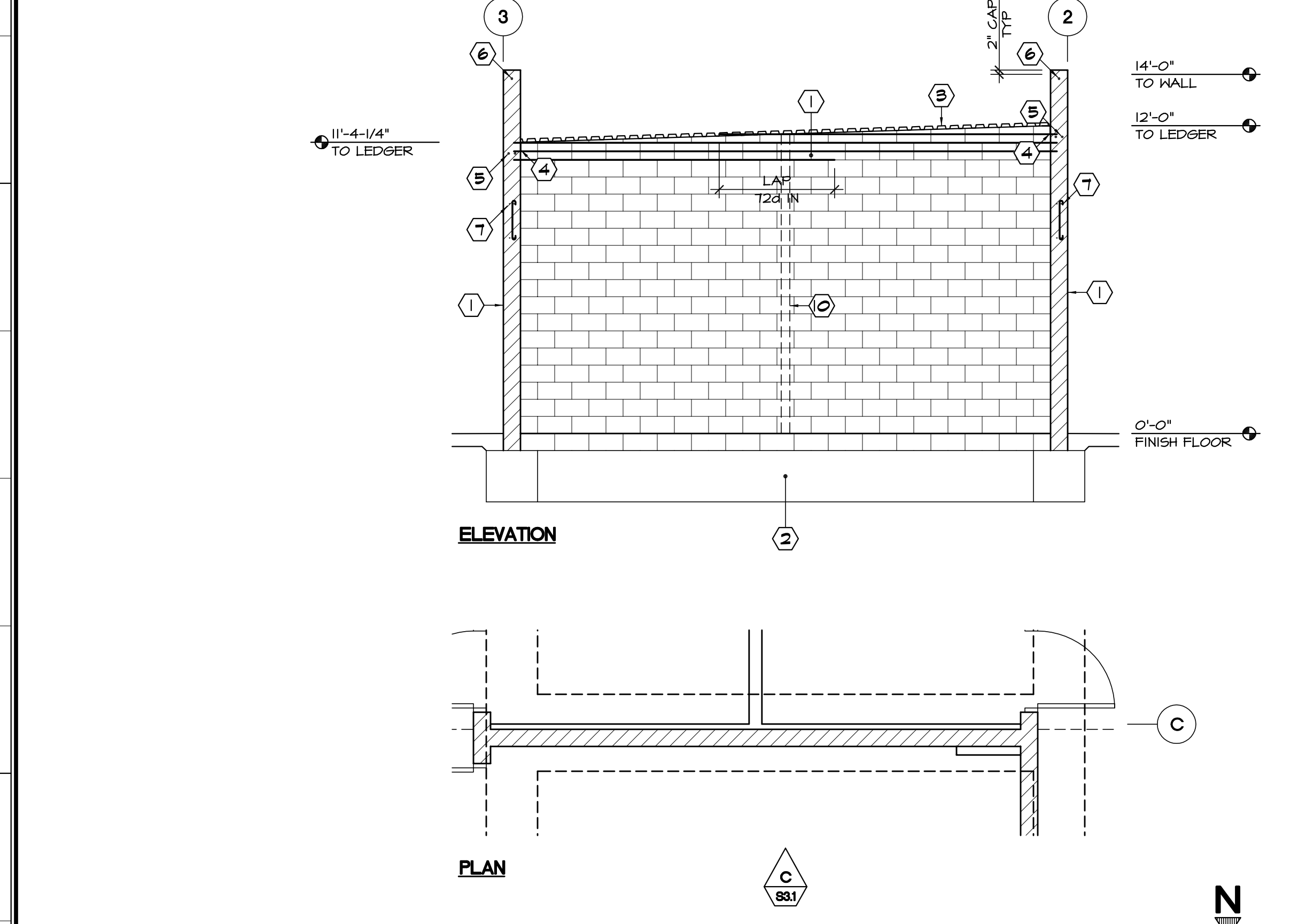
- ① CMU WALL PER PLAN
- ② CONCRETE FOUNDATION PER PLAN
- ③ METAL ROOF DECK PER PLAN
- ④ JOIST / LEDGER PER PLAN
- ⑤ DOUBLE DIAPHRAGM CHORD BARS PER DETAILS
- ⑥ PARAPET TOP BAR - (1) #5 CONT
- ⑦ LINTEL BARS (8) #4 / (8) #4
- ⑧ JAMB BARS - (2) #4 (8) #4 / (8) #4
- ⑨ STUD WALL PER PLAN
- ⑩ FRAMING / WALL BEYOND



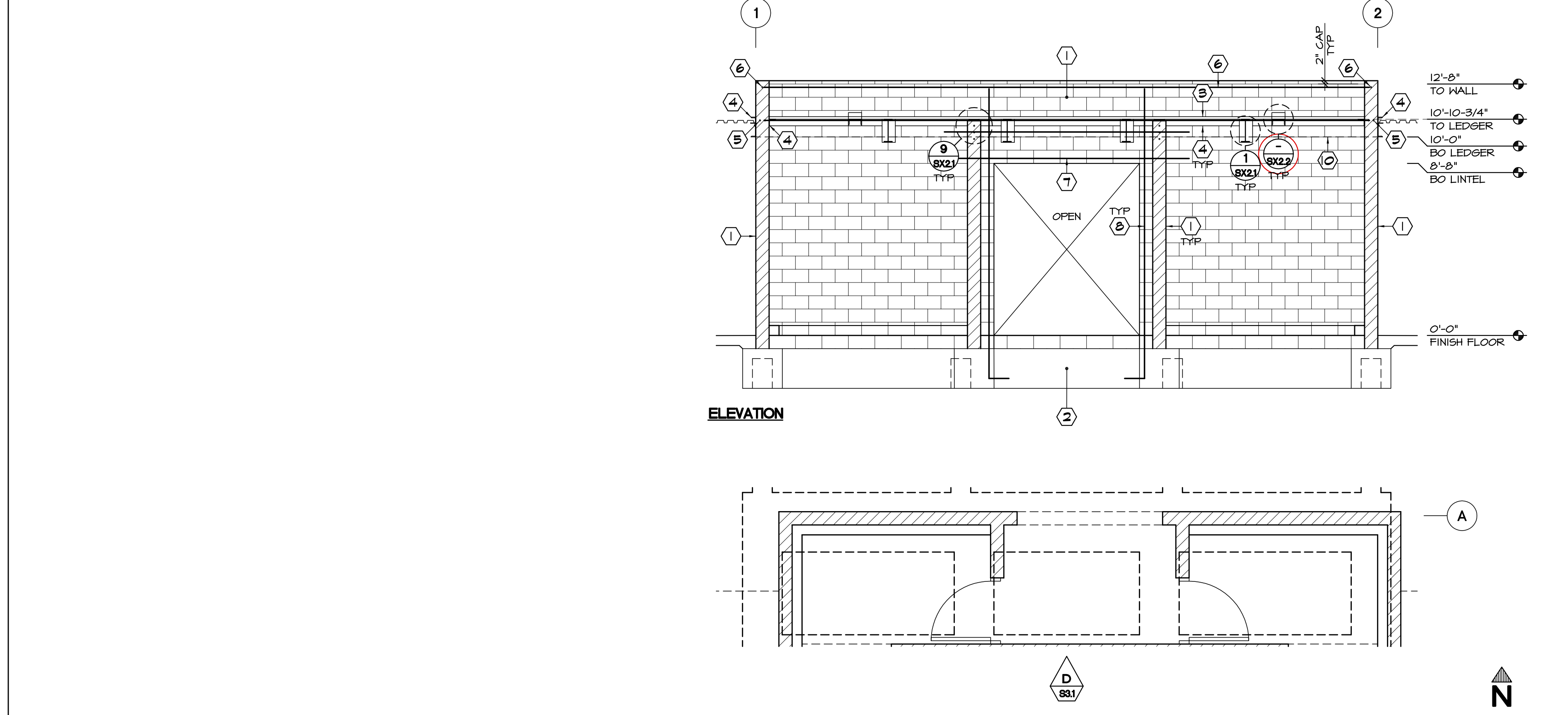
WALL ELEVATION SCALE: 1/4" = 1'-0" **A**



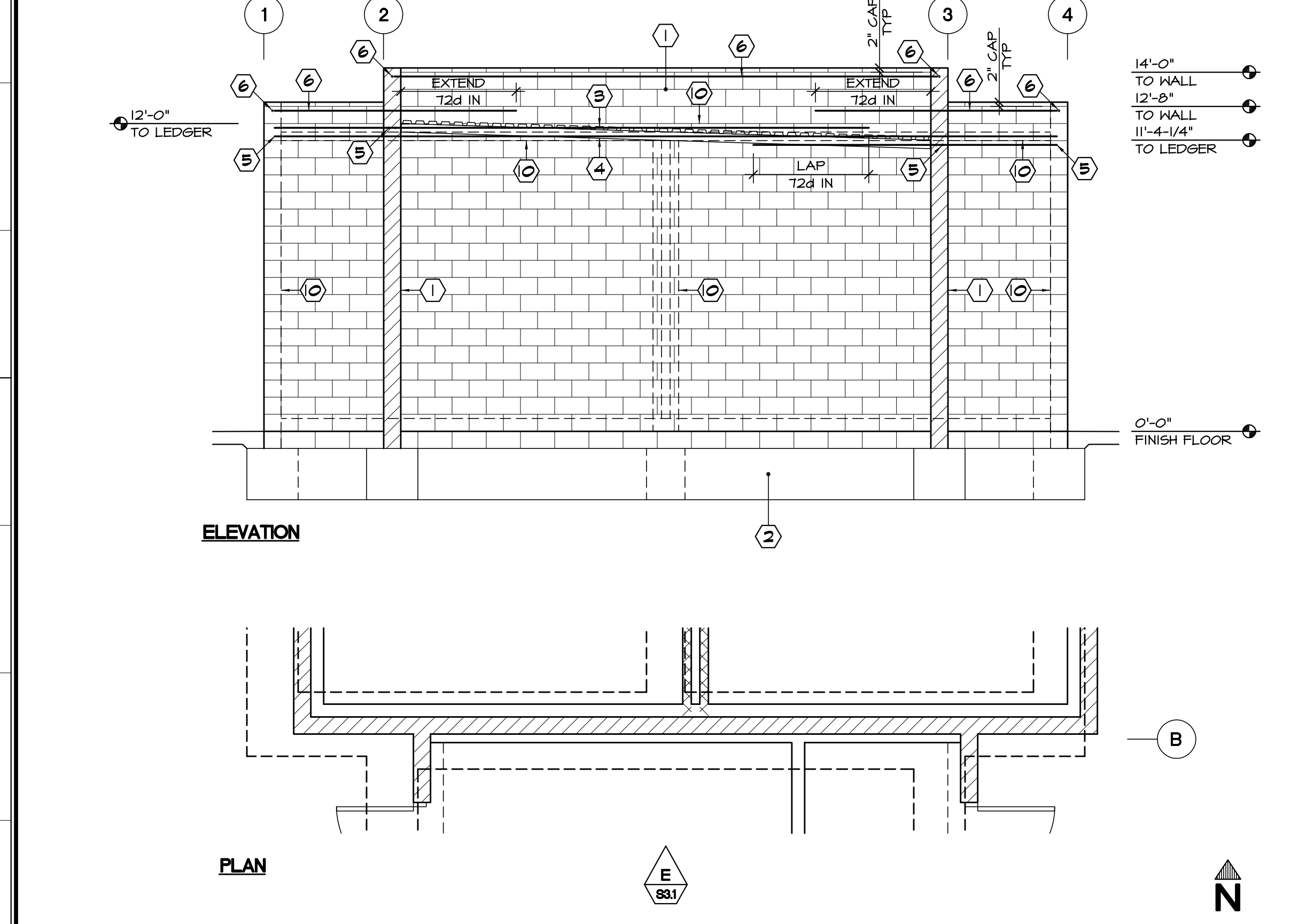
WALL ELEVATION SCALE: 1/4" = 1'-0" **B**



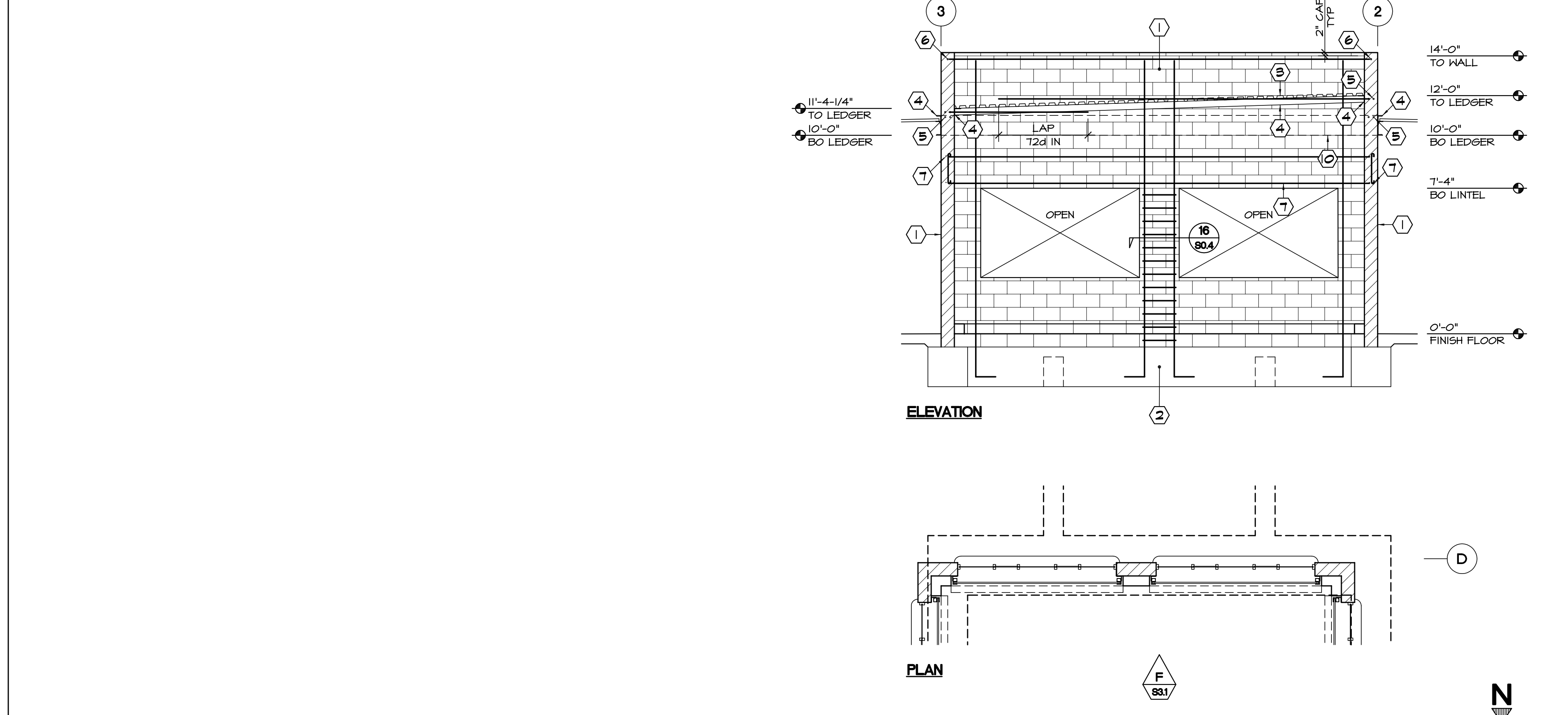
WALL ELEVATION SCALE: 1/4" = 1'-0" **C**



WALL ELEVATION SCALE: 1/4" = 1'-0" **D**



WALL ELEVATION SCALE: 1/4" = 1'-0" **E**



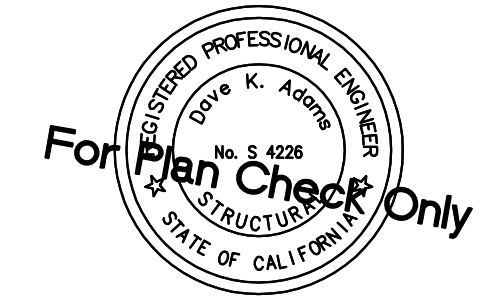
WALL ELEVATION SCALE: 1/4" = 1'-0" **F**

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Project Title
**IMPERIAL VALLEY COLLEGE
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Sheet Title
WALL ELEVATIONS

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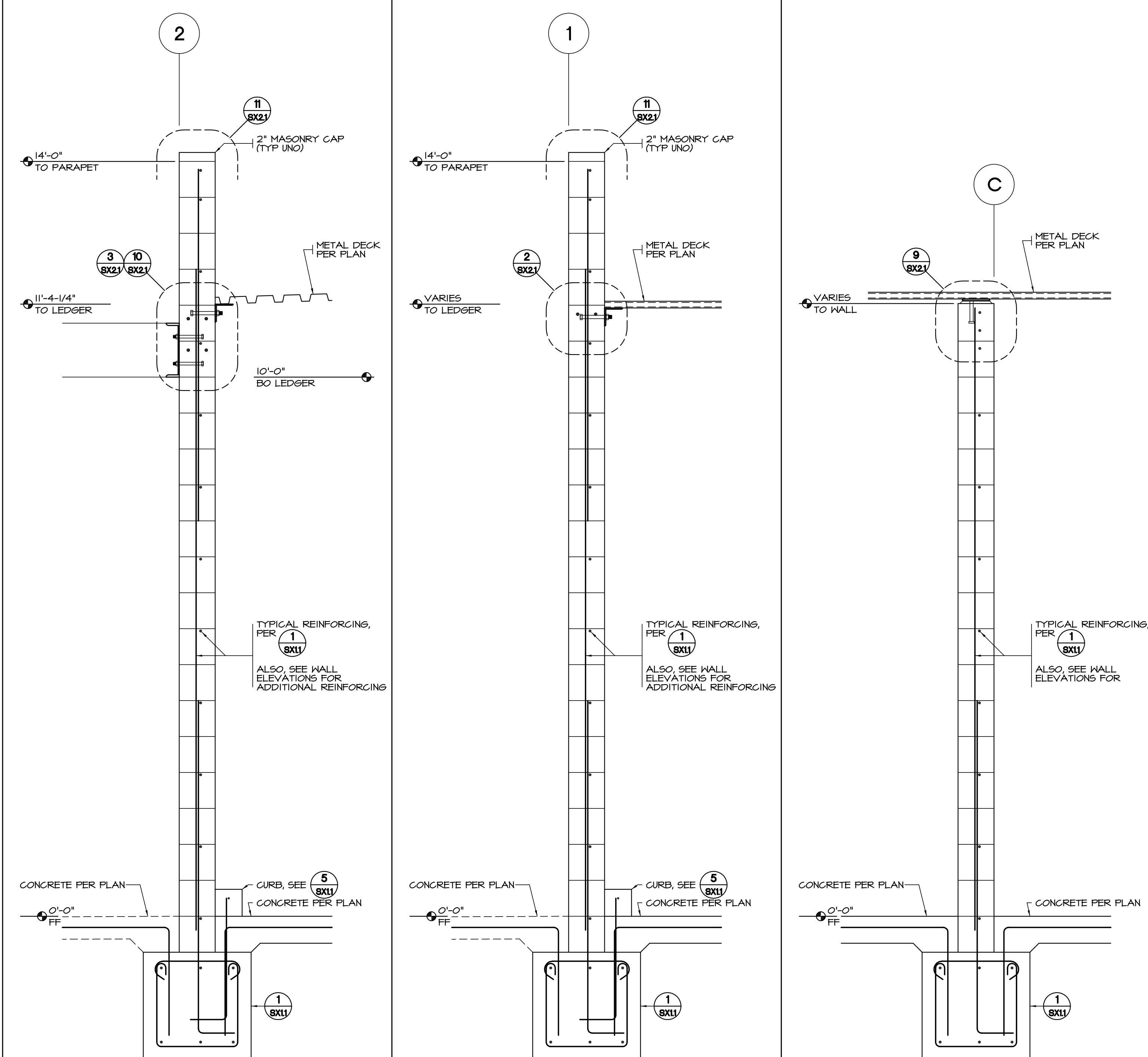
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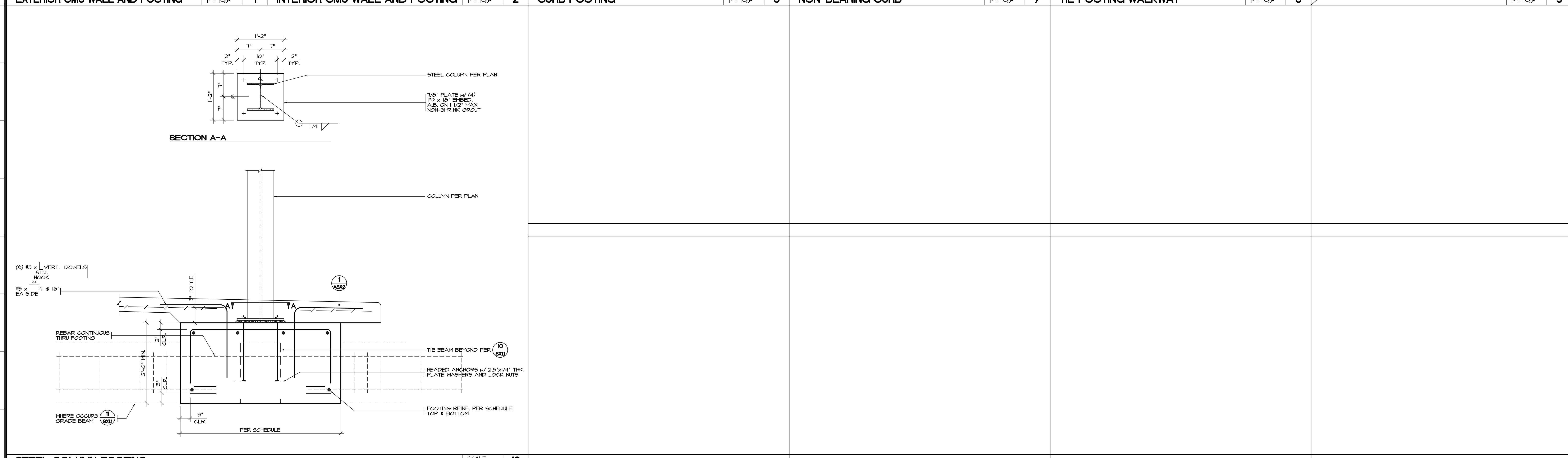
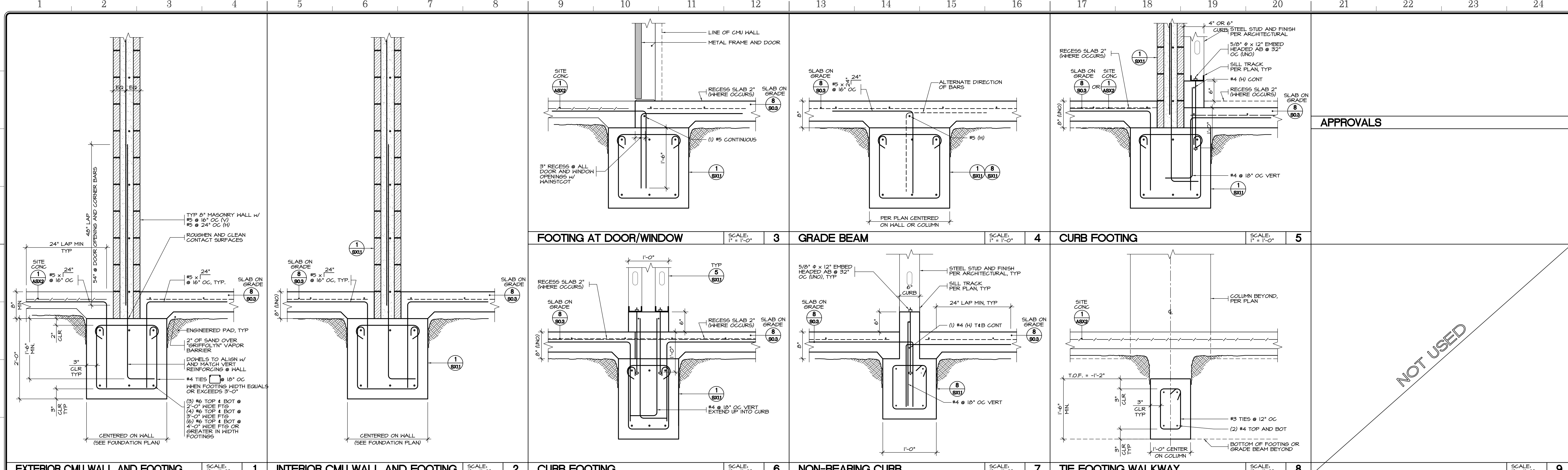
Project Title
**IMPERIAL VALLEY COLLEGE
 RESTROOM/CONCESSION BUILDING**

Sheet Title
WALL SECTIONS

	Document Date 04-01-22	Project Number 22-091V
	Date Last Revised	Sheet Number S4.1



WALL SECTION SCALE: 3/4" = 1'-0" 1 WALL SECTION SCALE: 3/4" = 1'-0" 2 WALL SECTION SCALE: 3/4" = 1'-0" 3

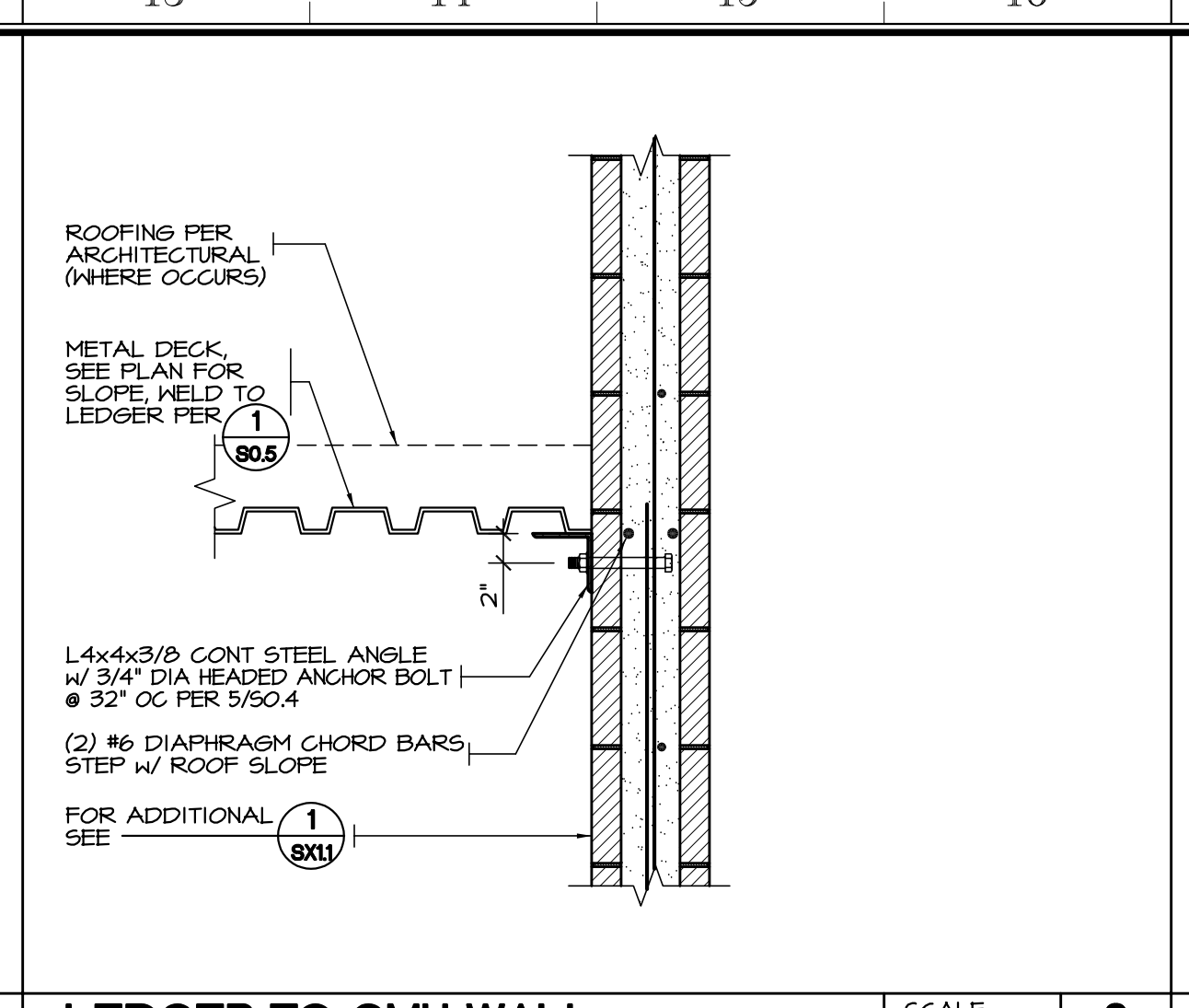
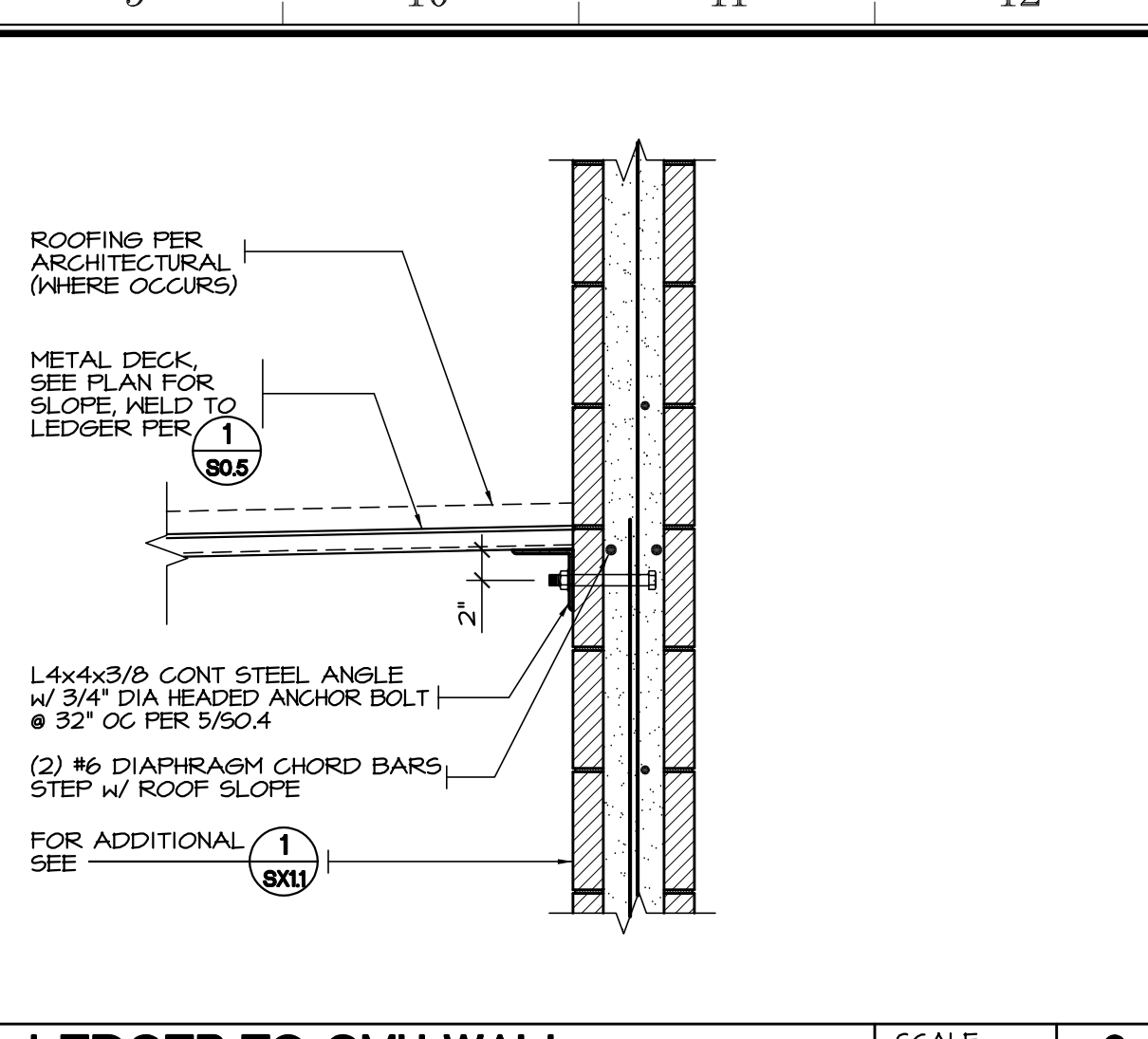
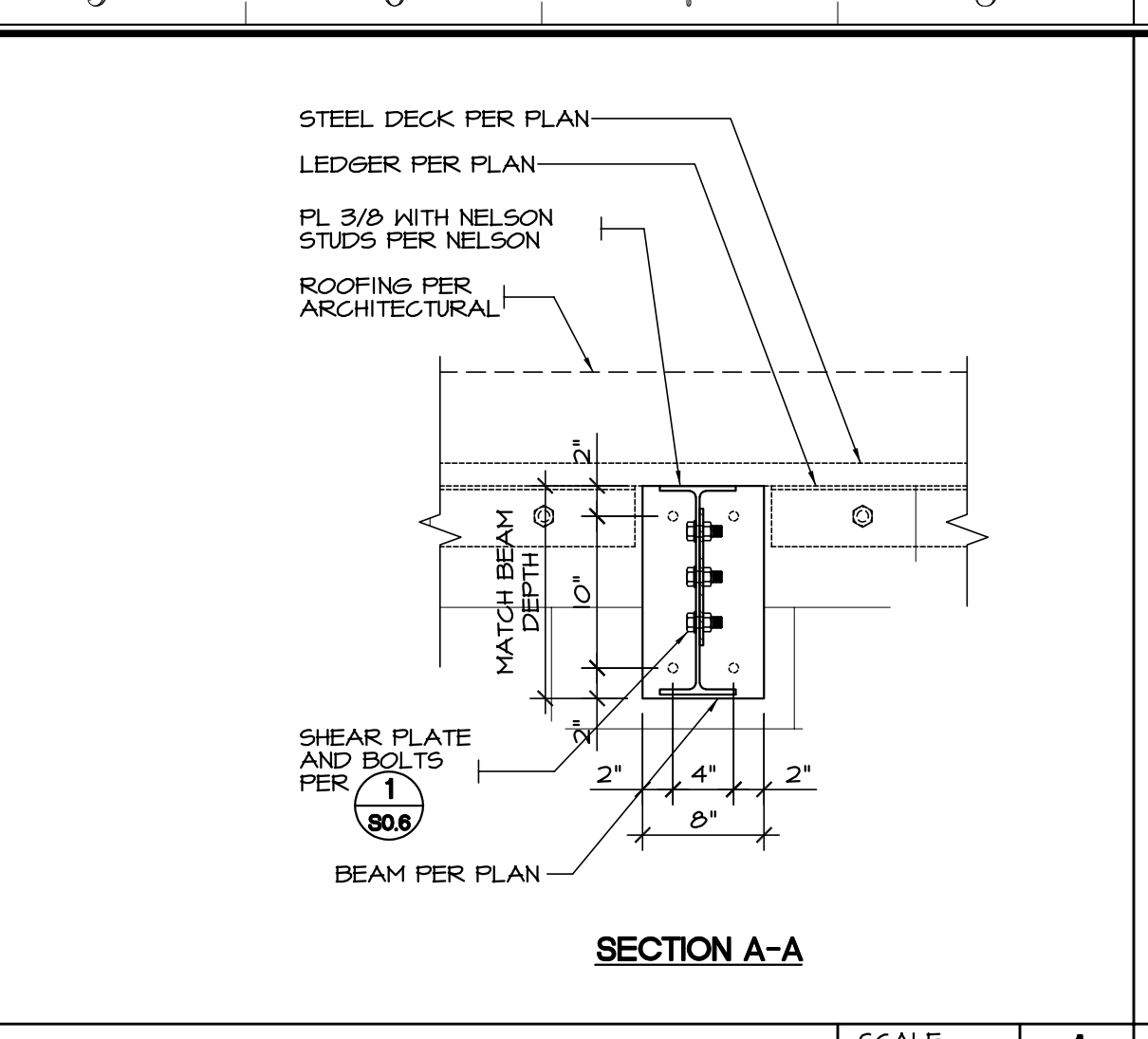
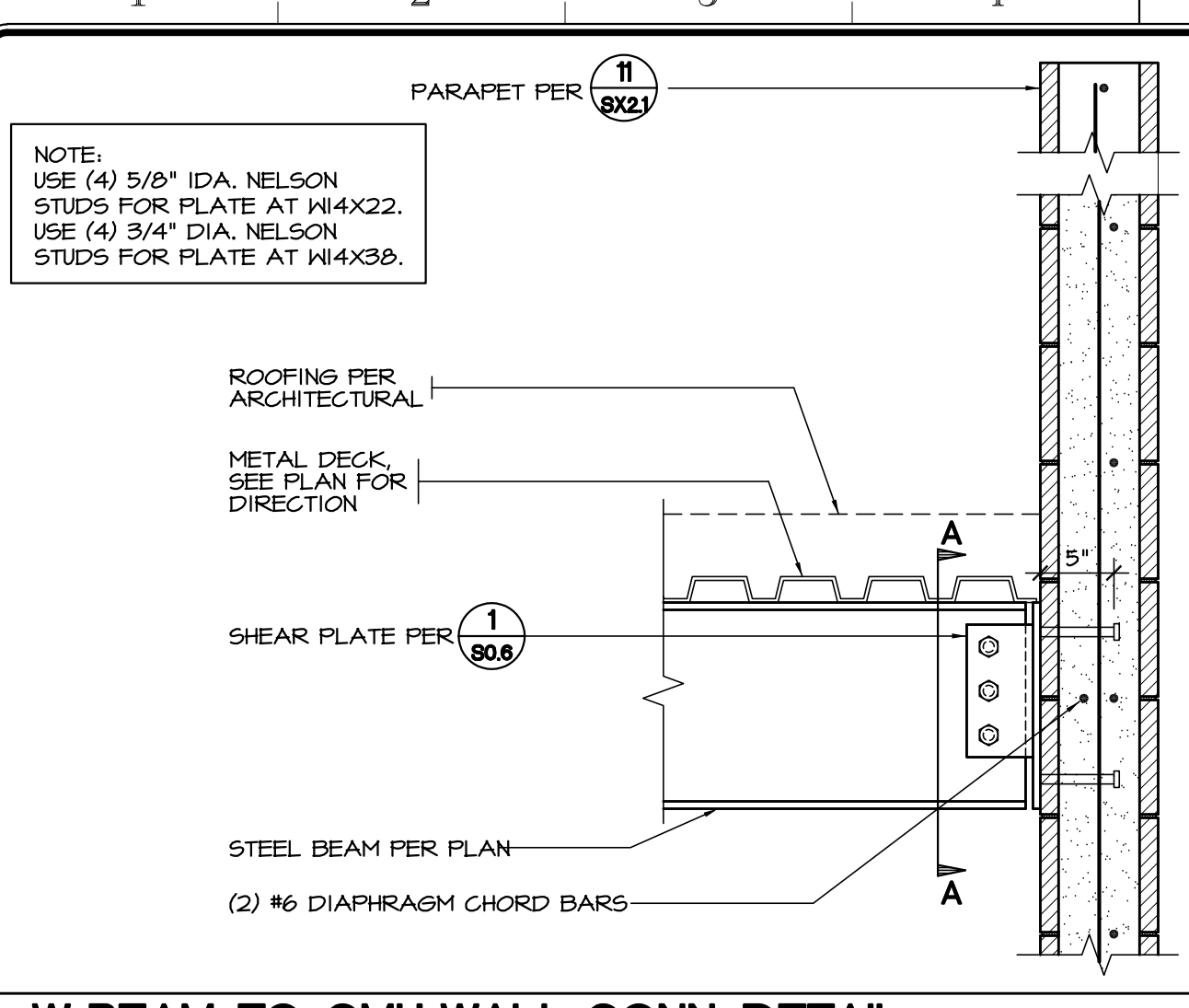


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Project Title
IMPERIAL VALLEY COLLEGE RESTROOM/CONCESSION BUILDING

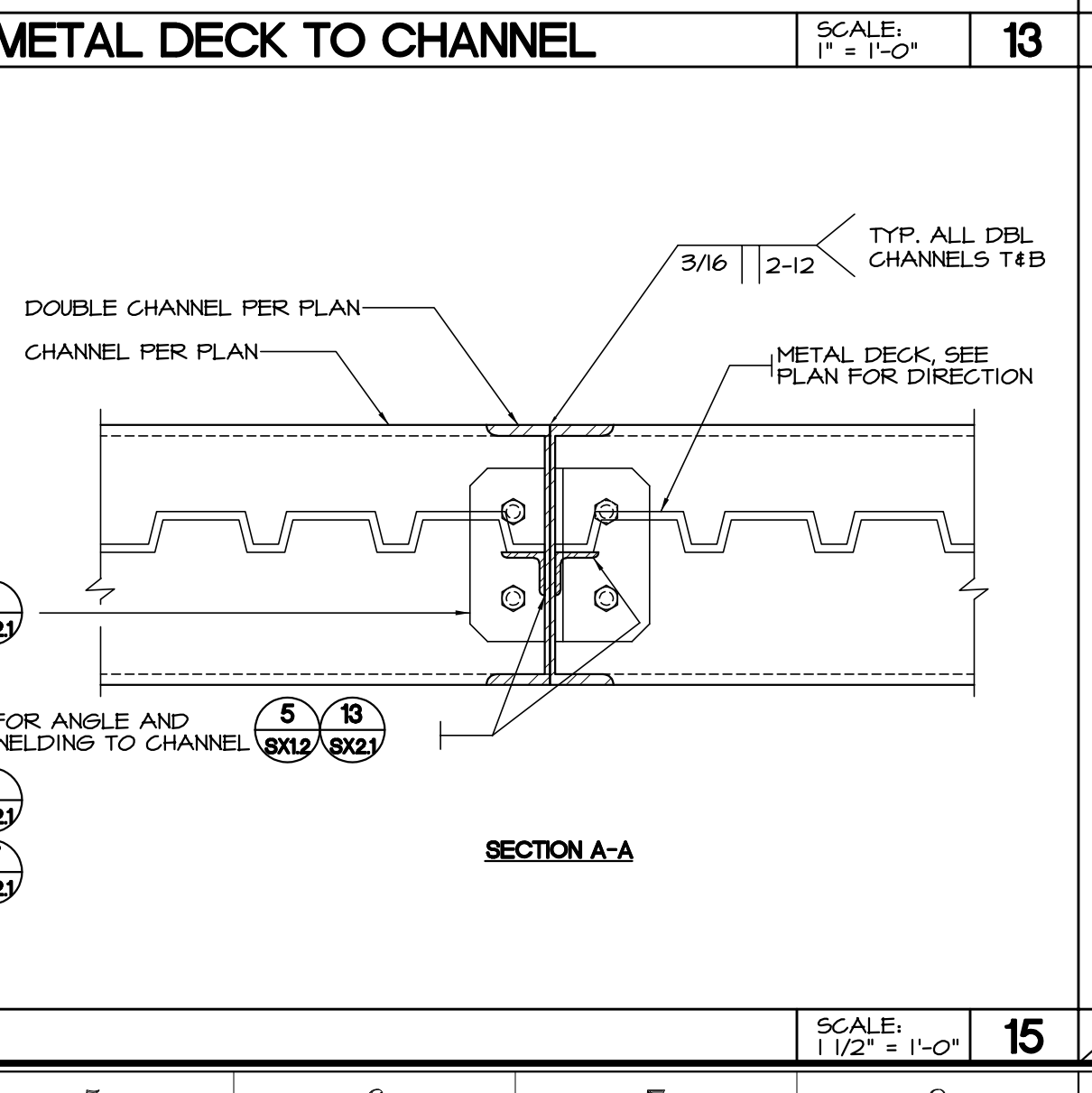
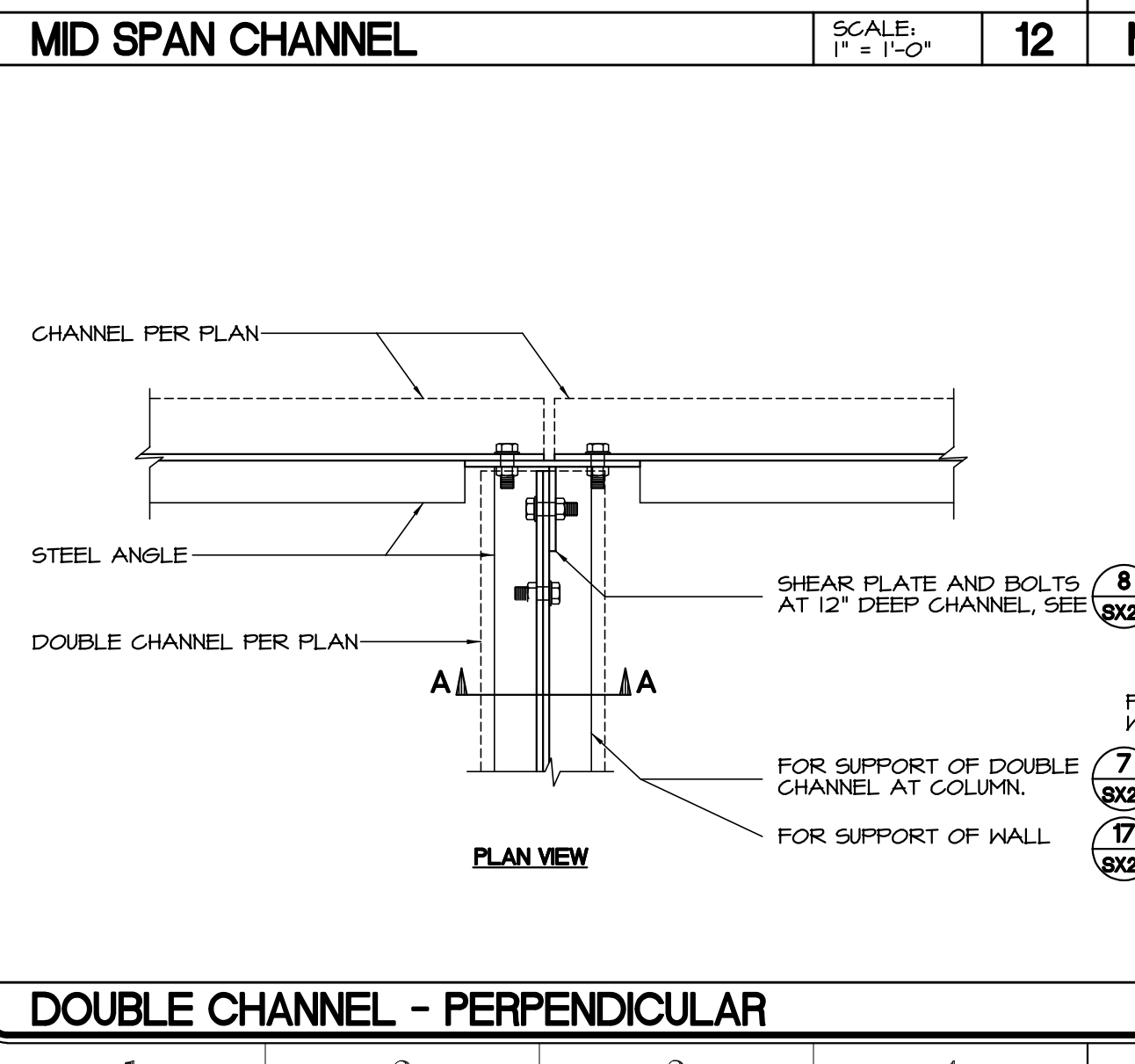
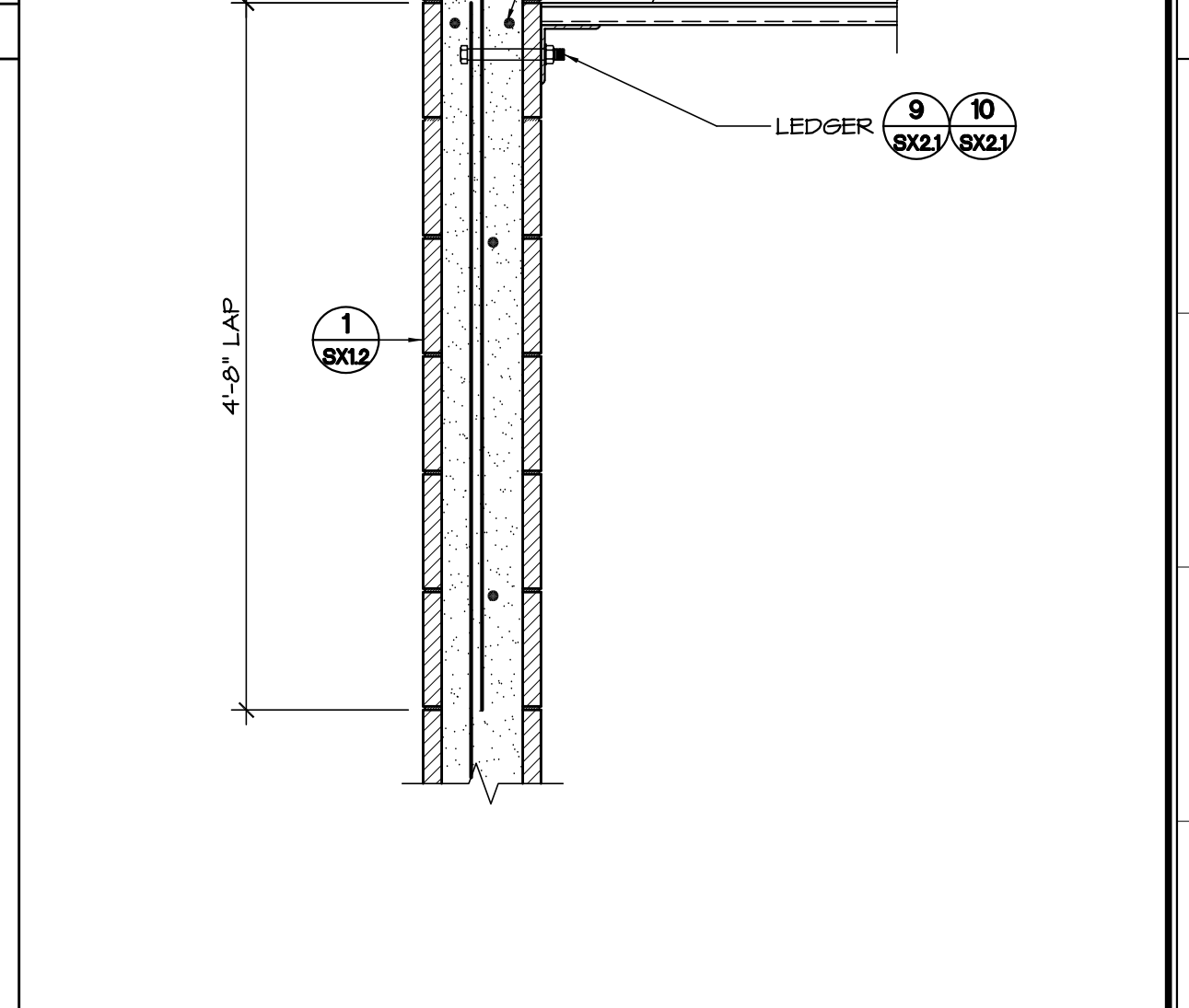
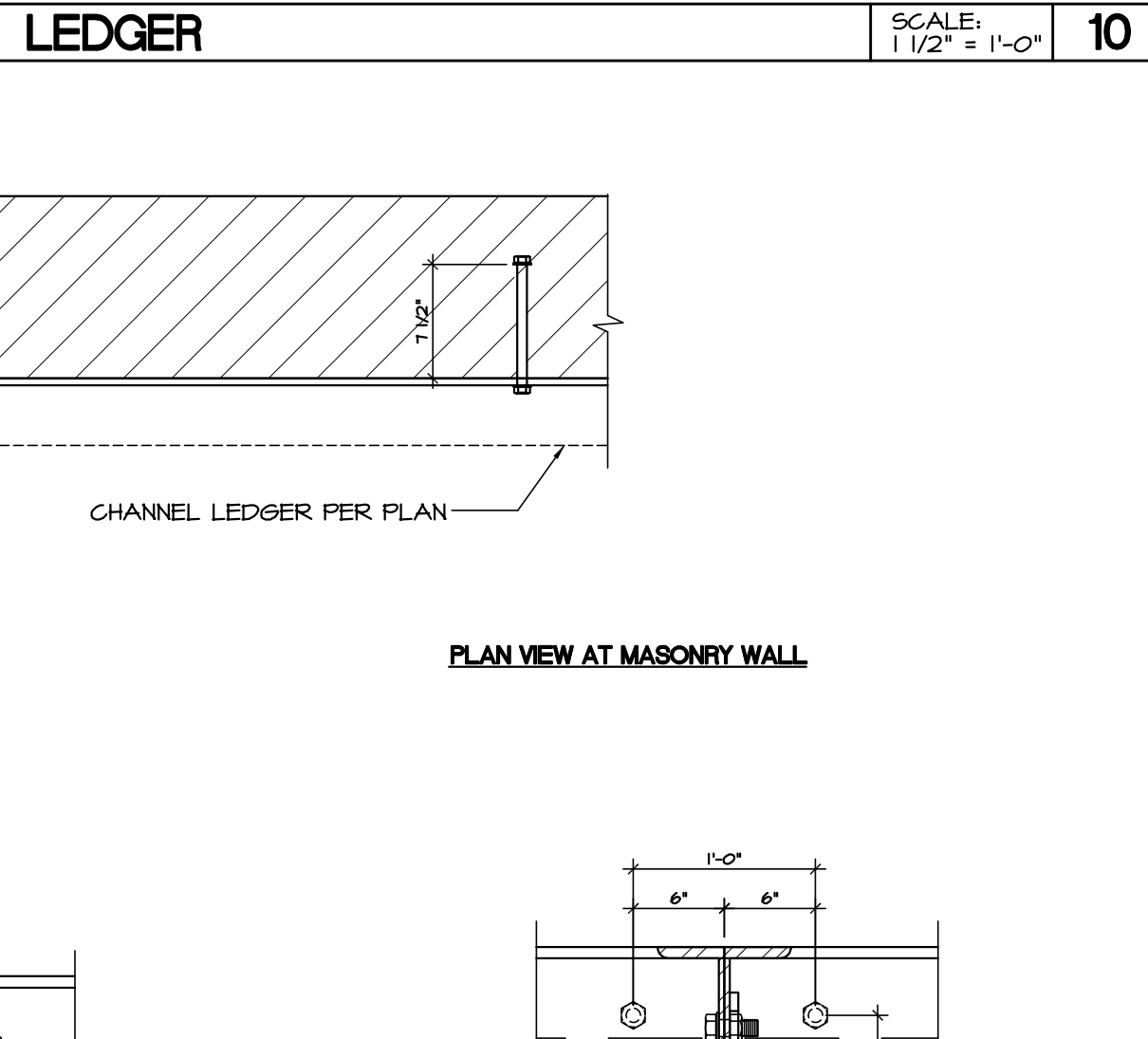
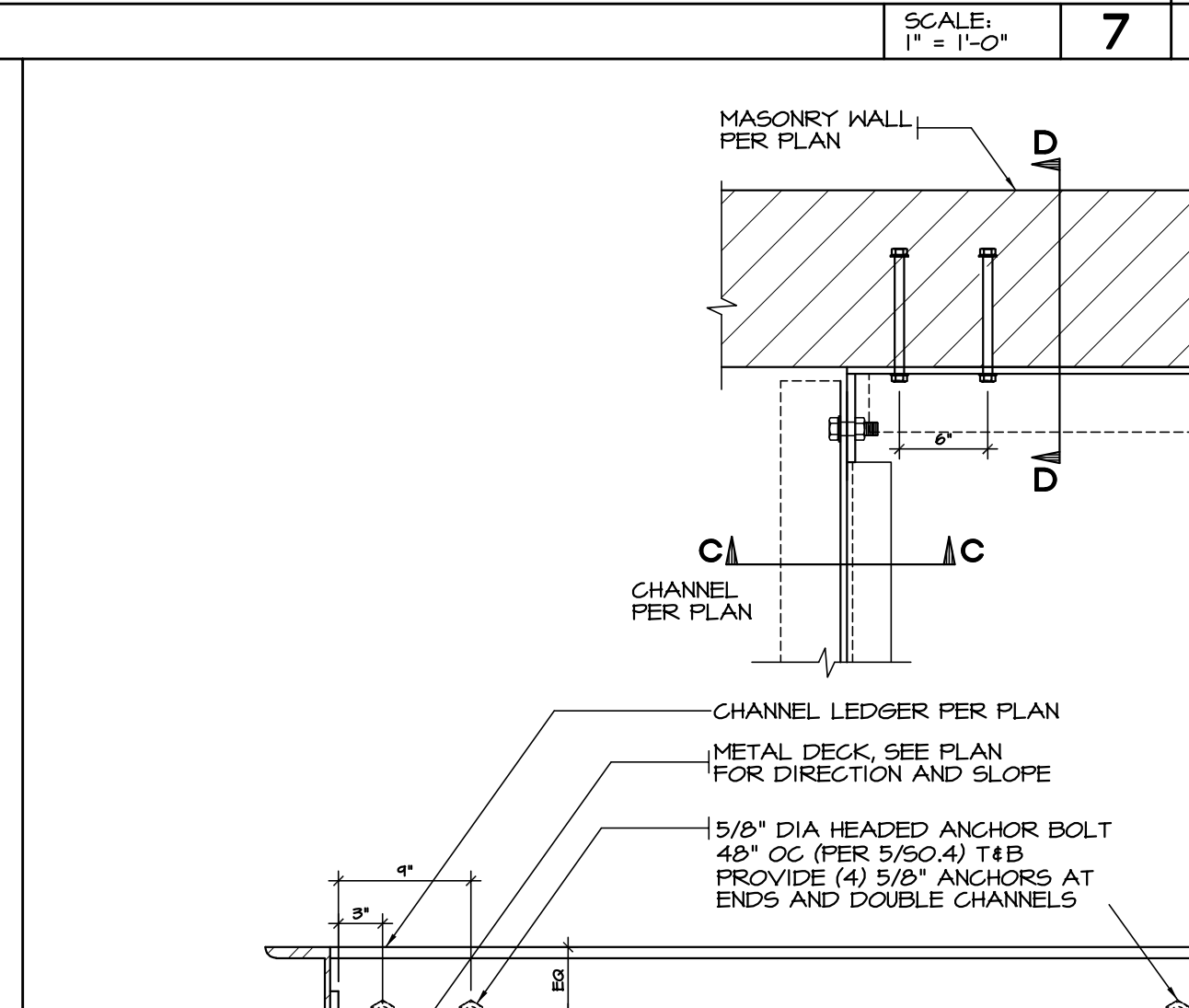
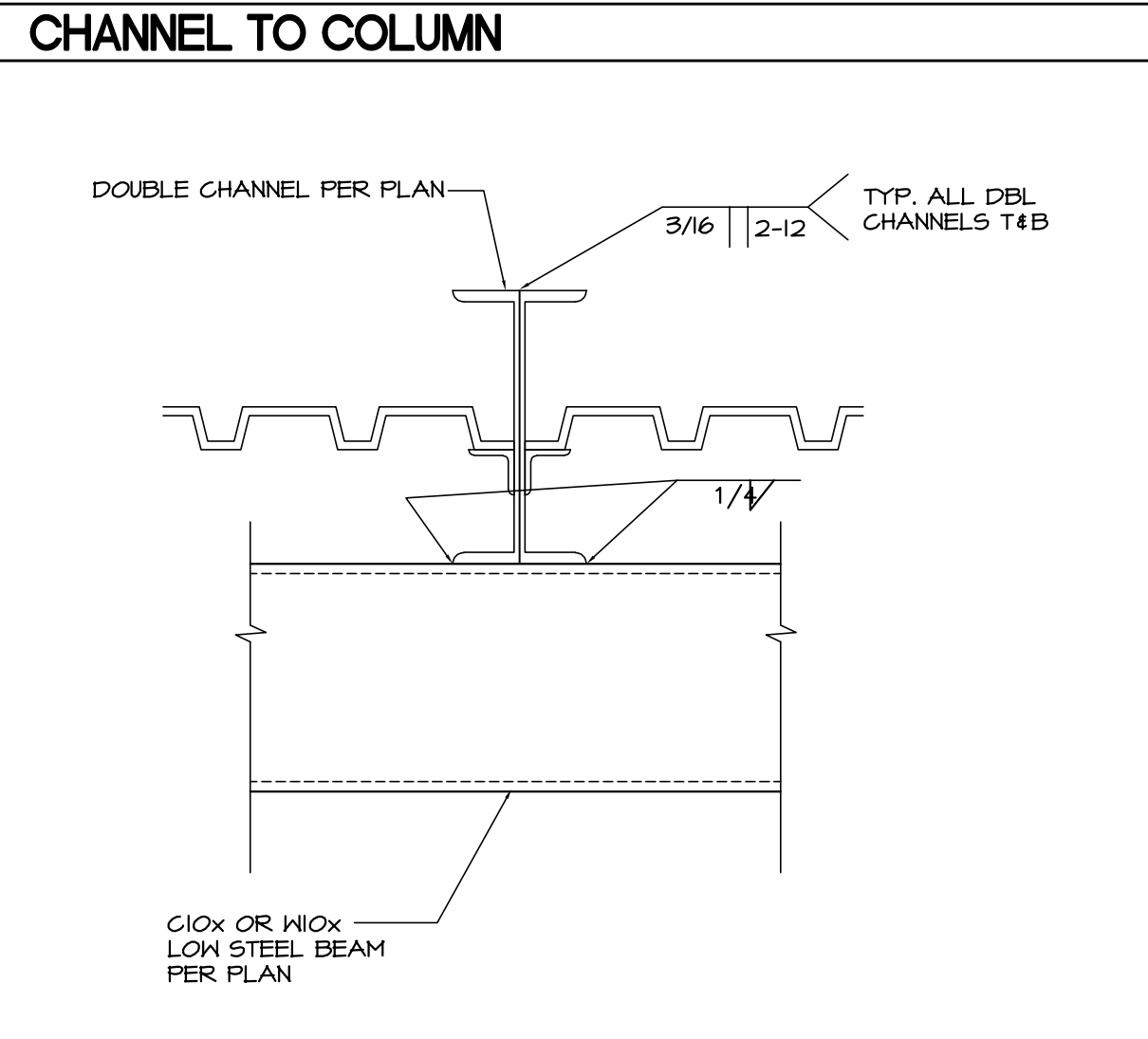
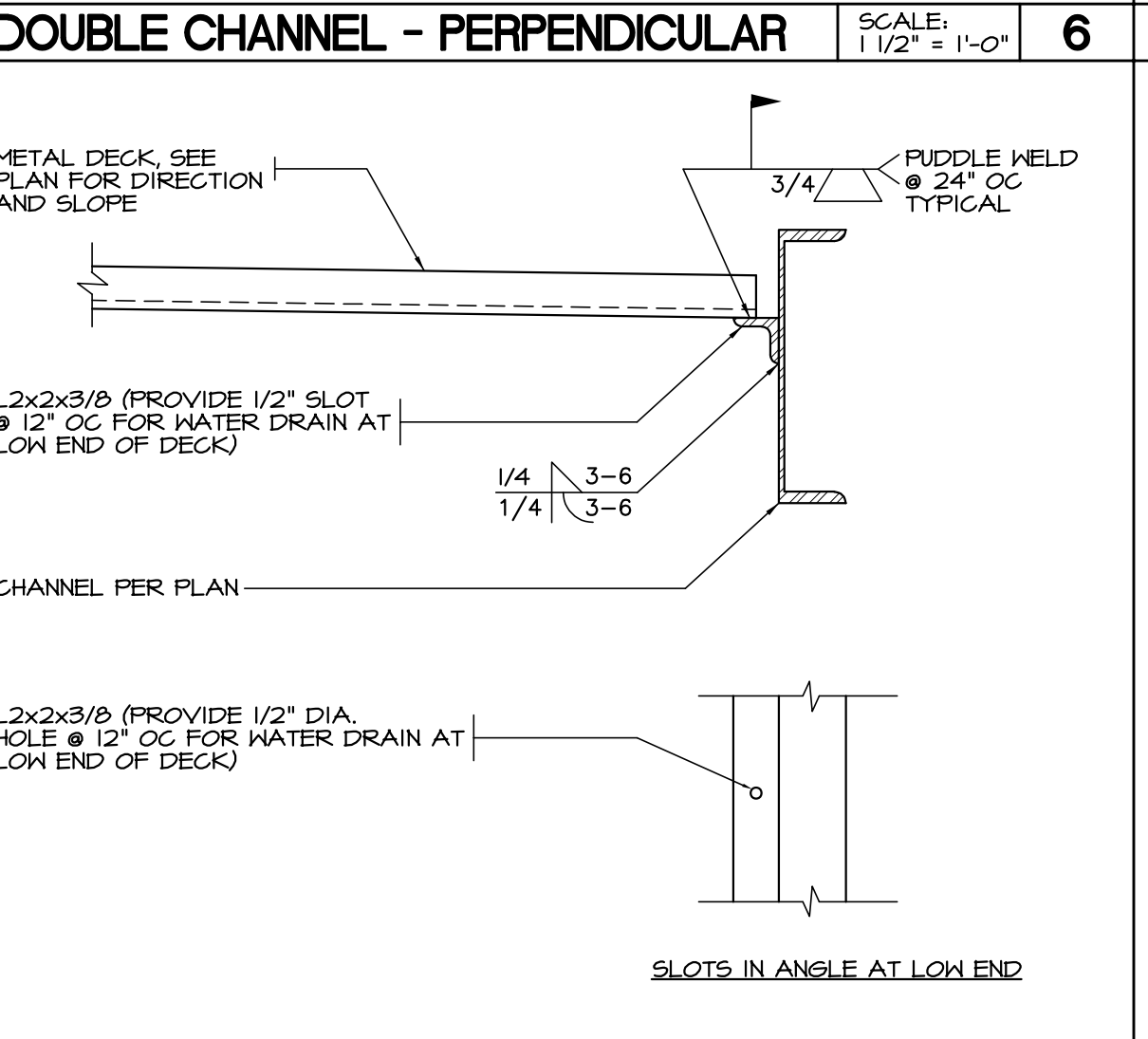
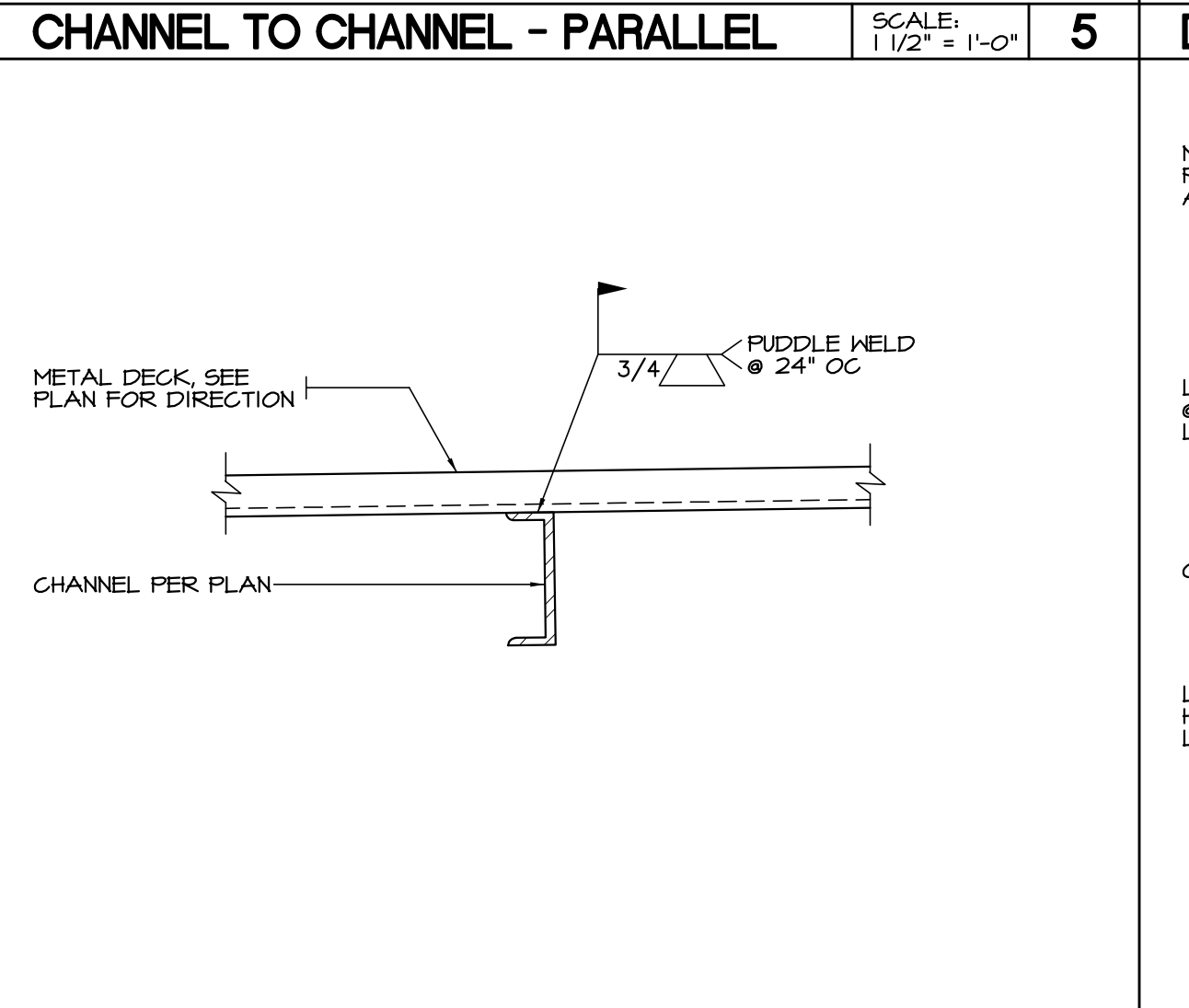
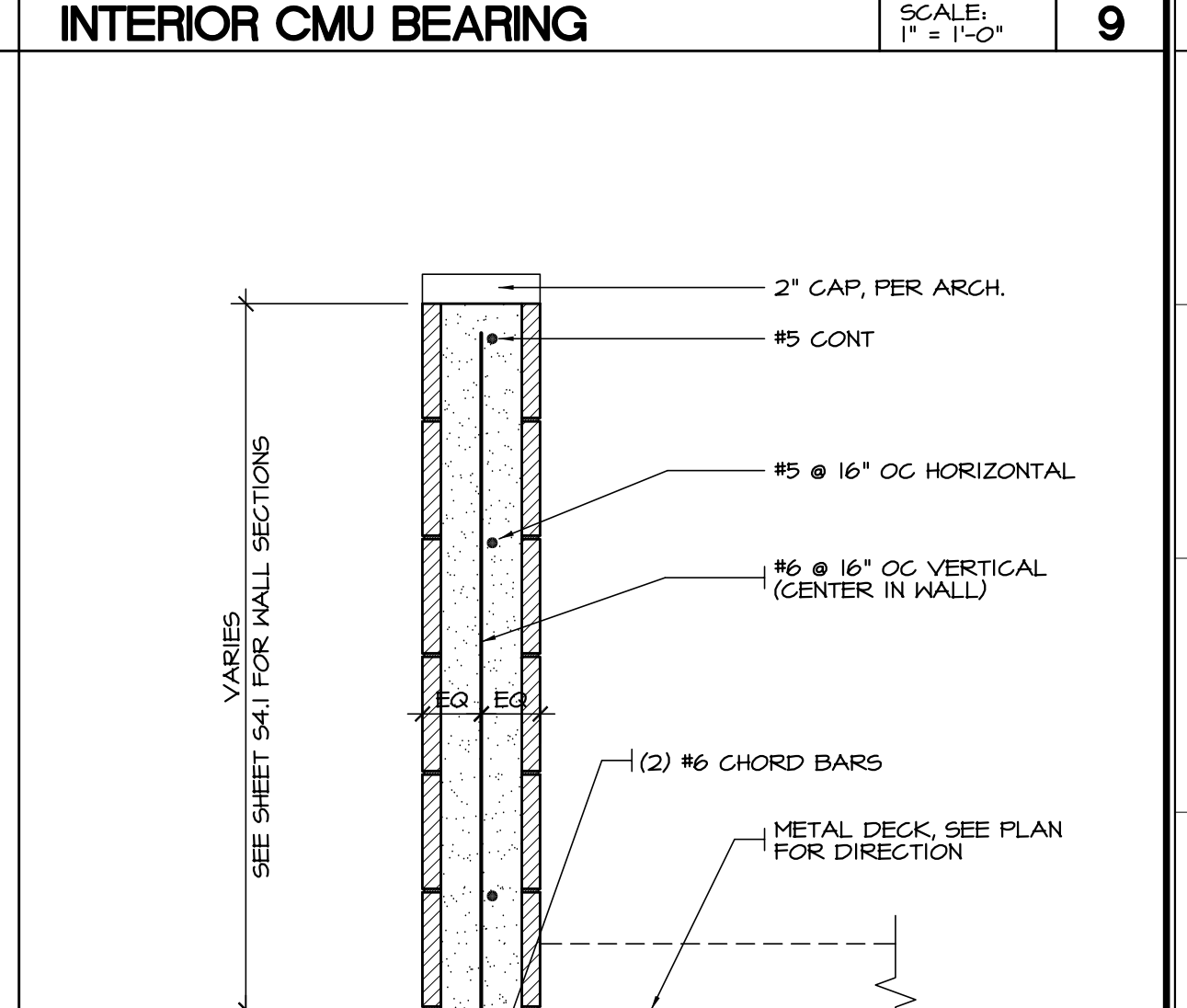
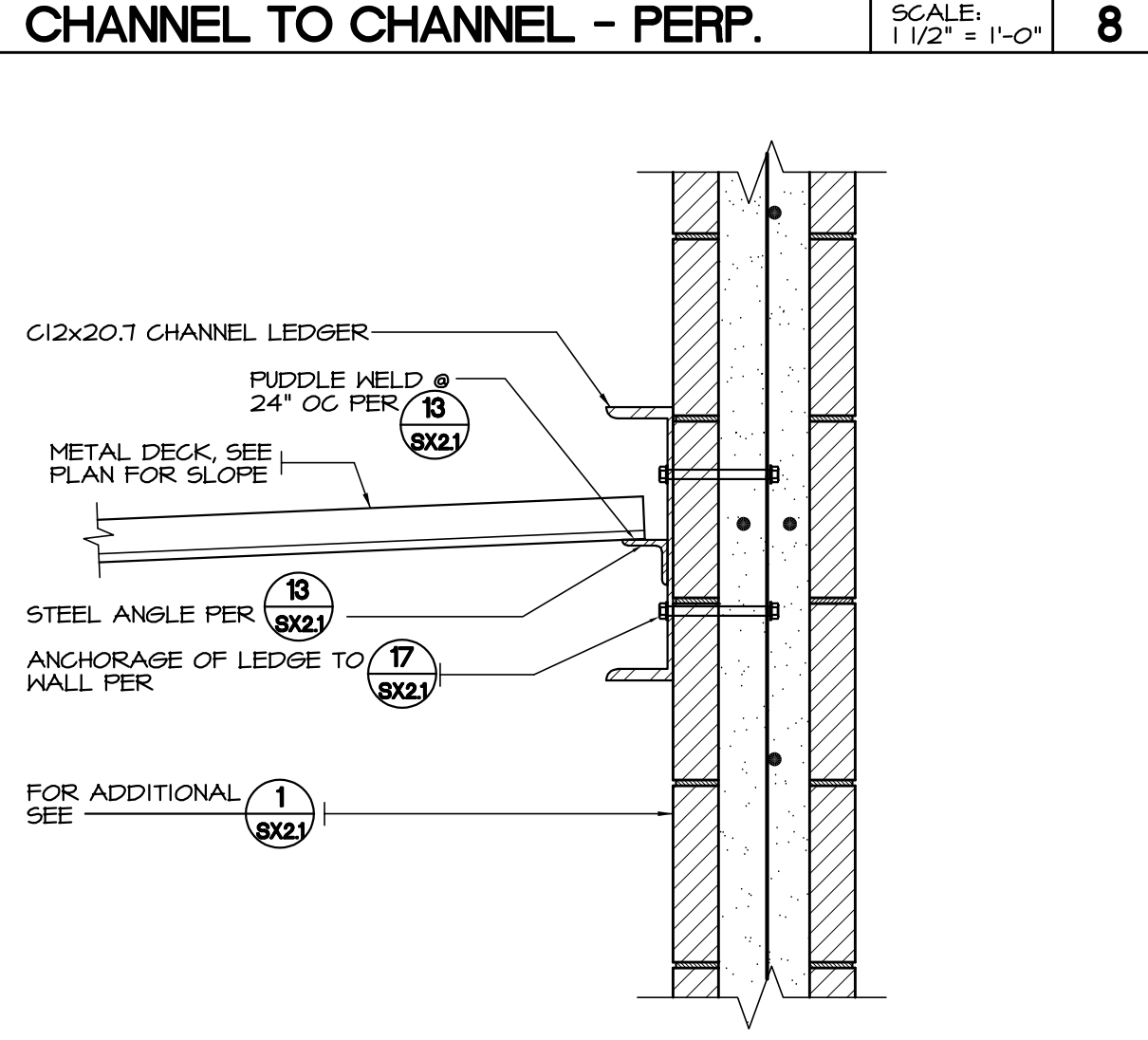
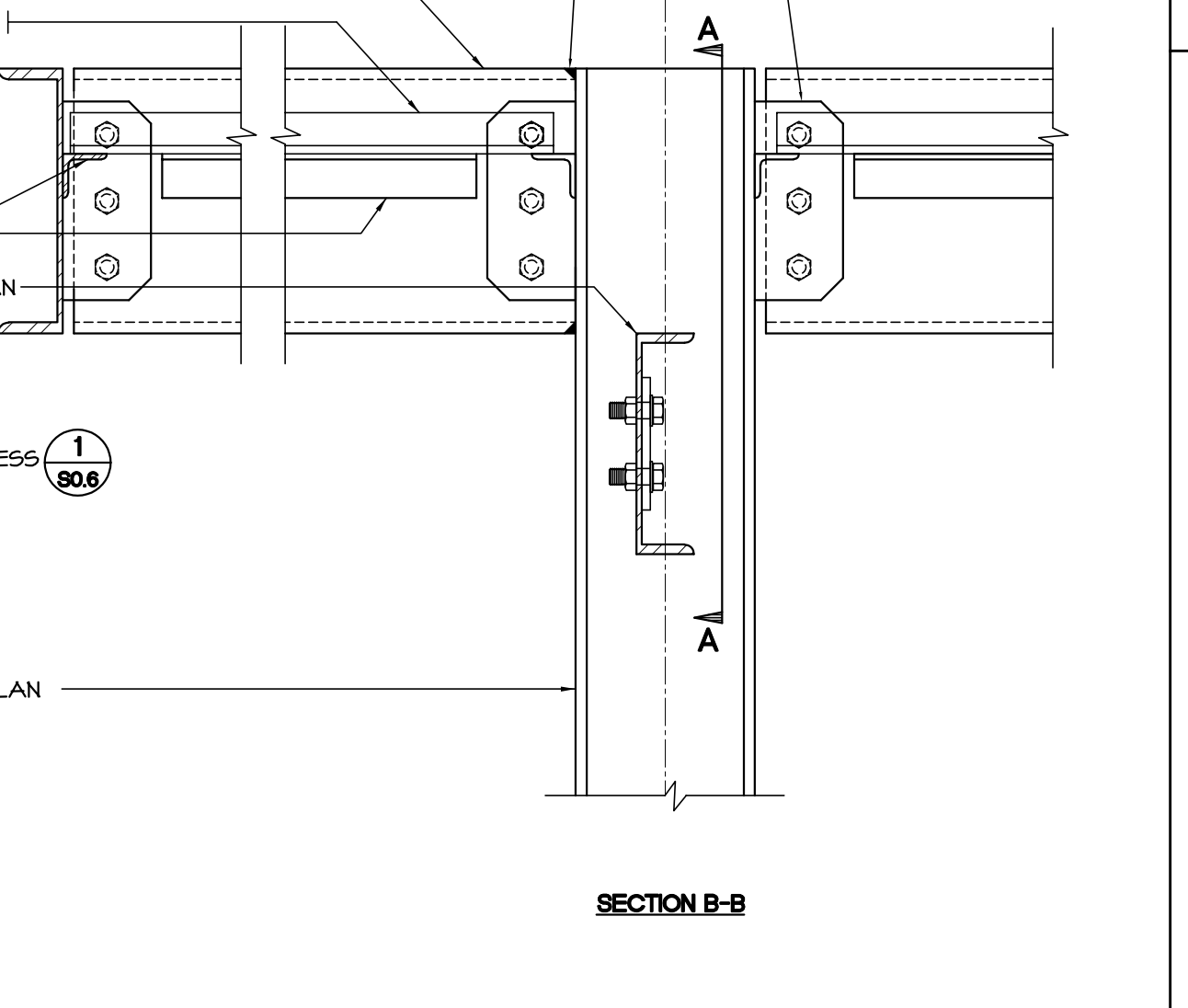
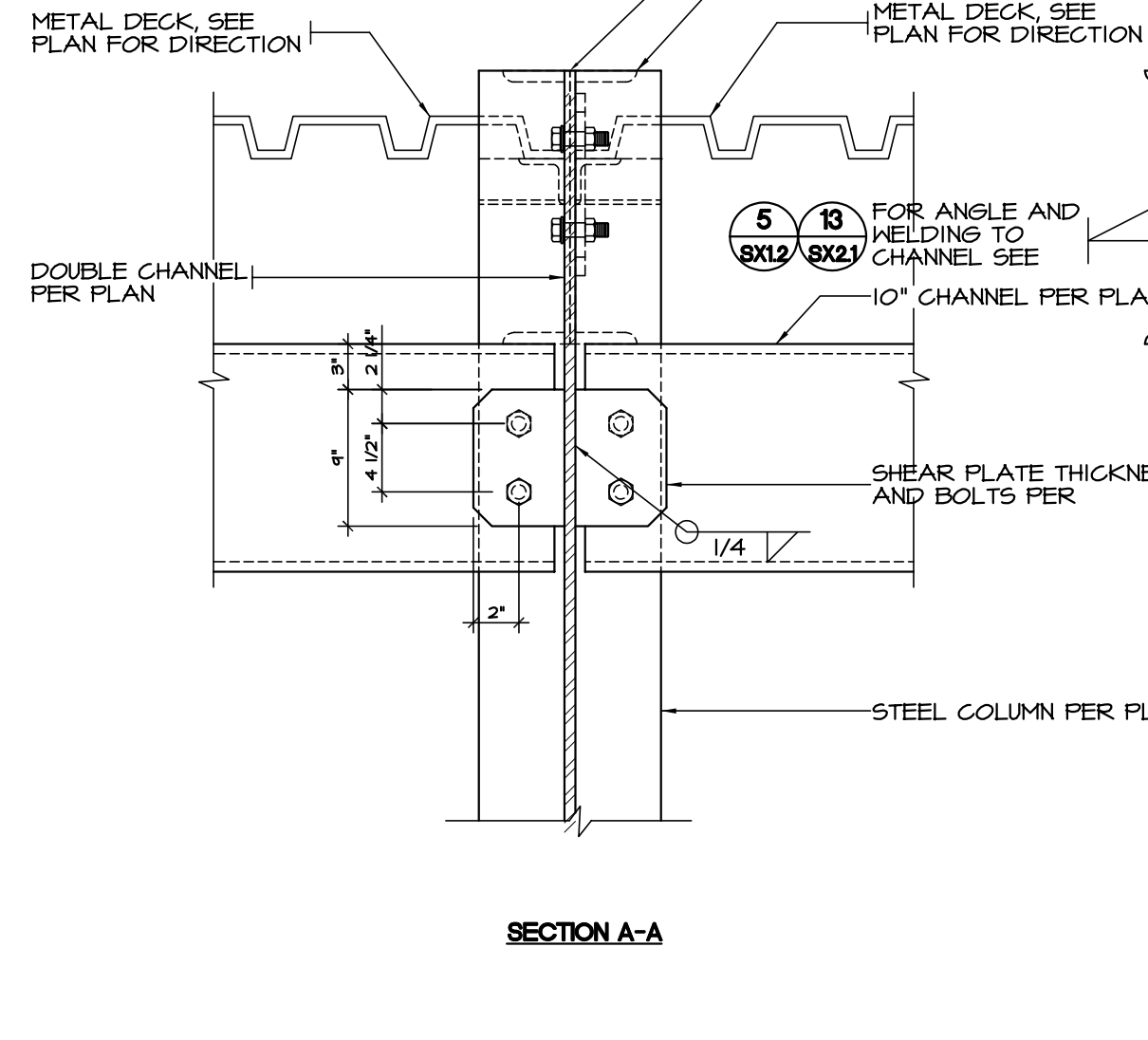
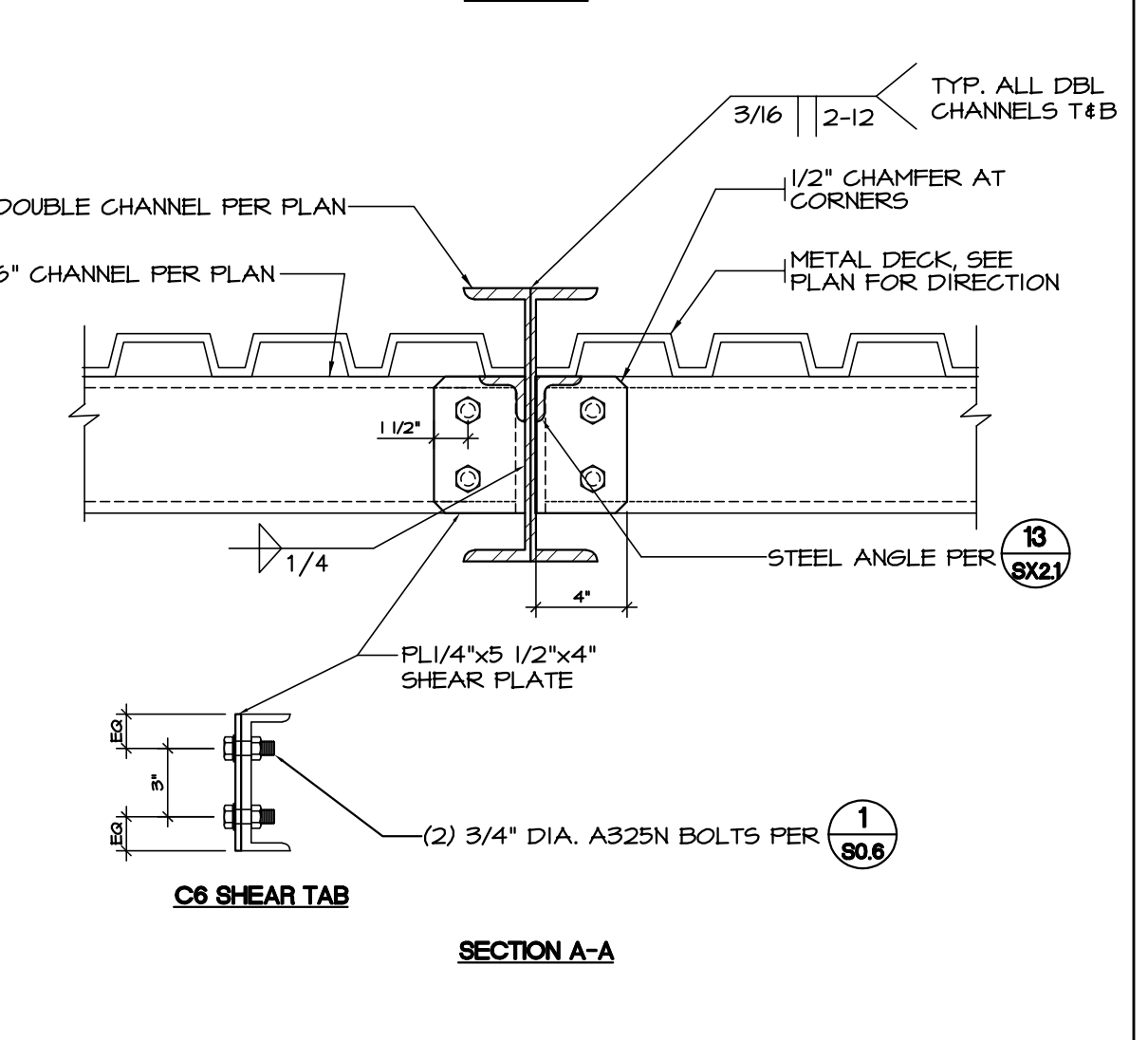
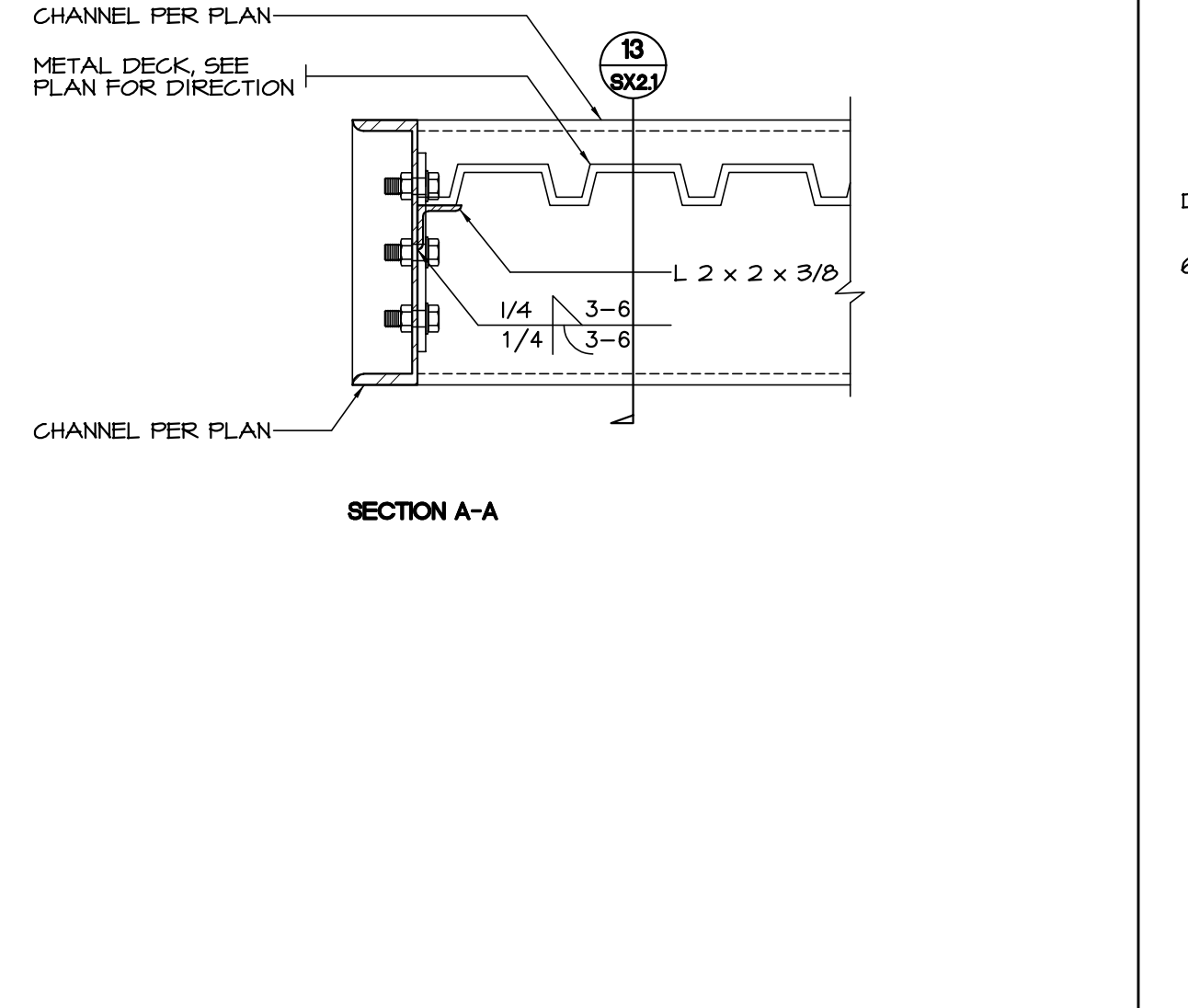
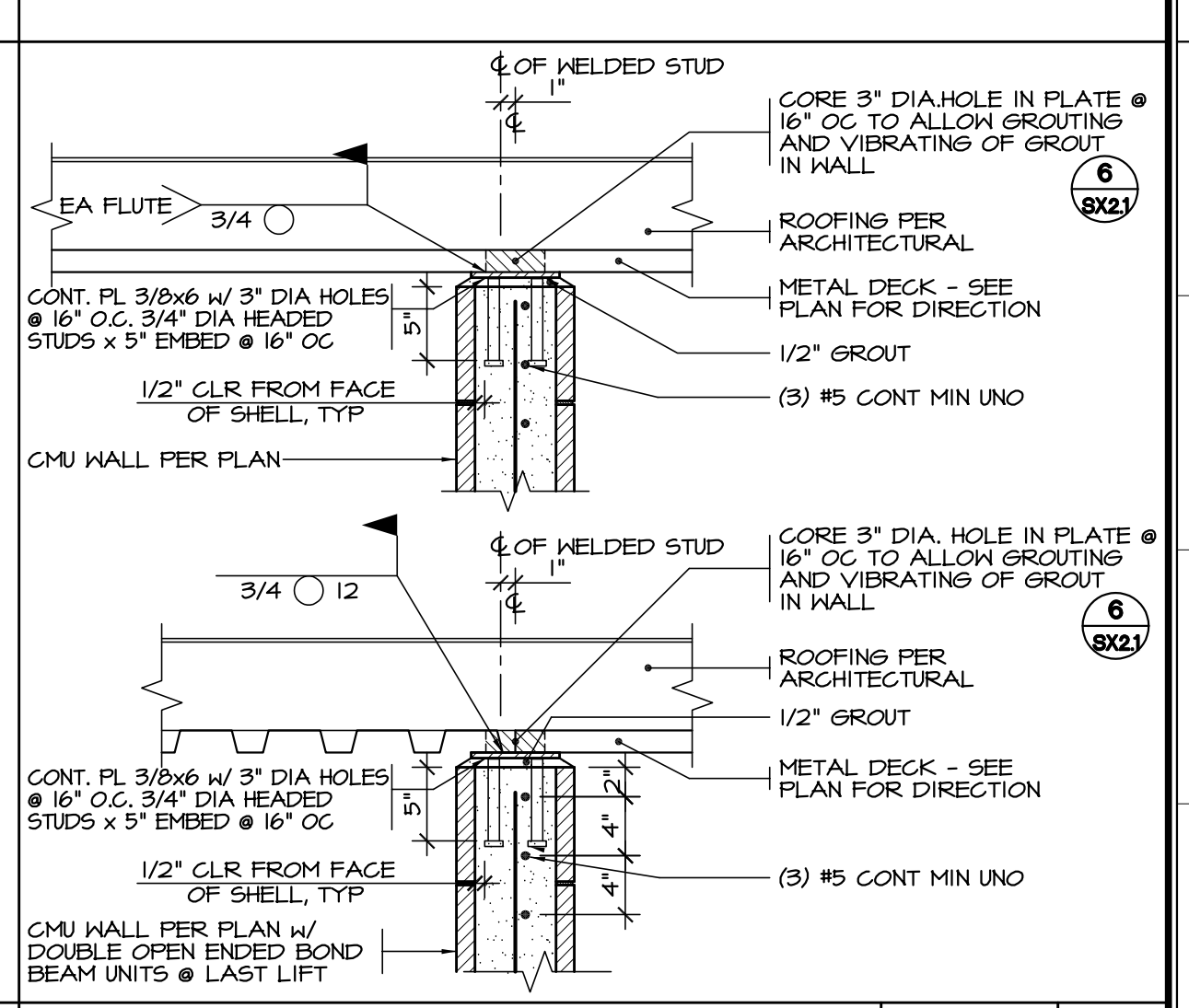
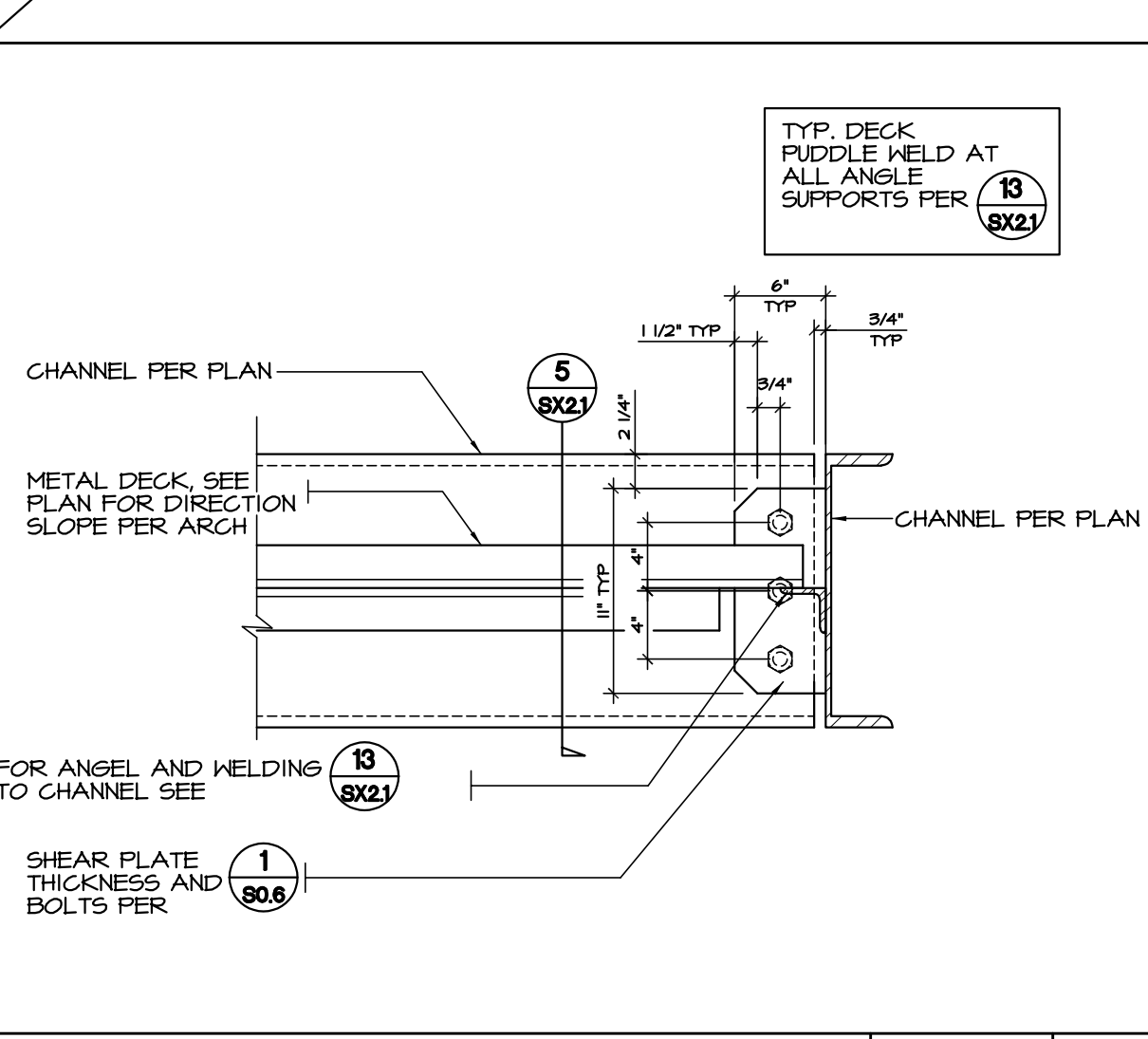
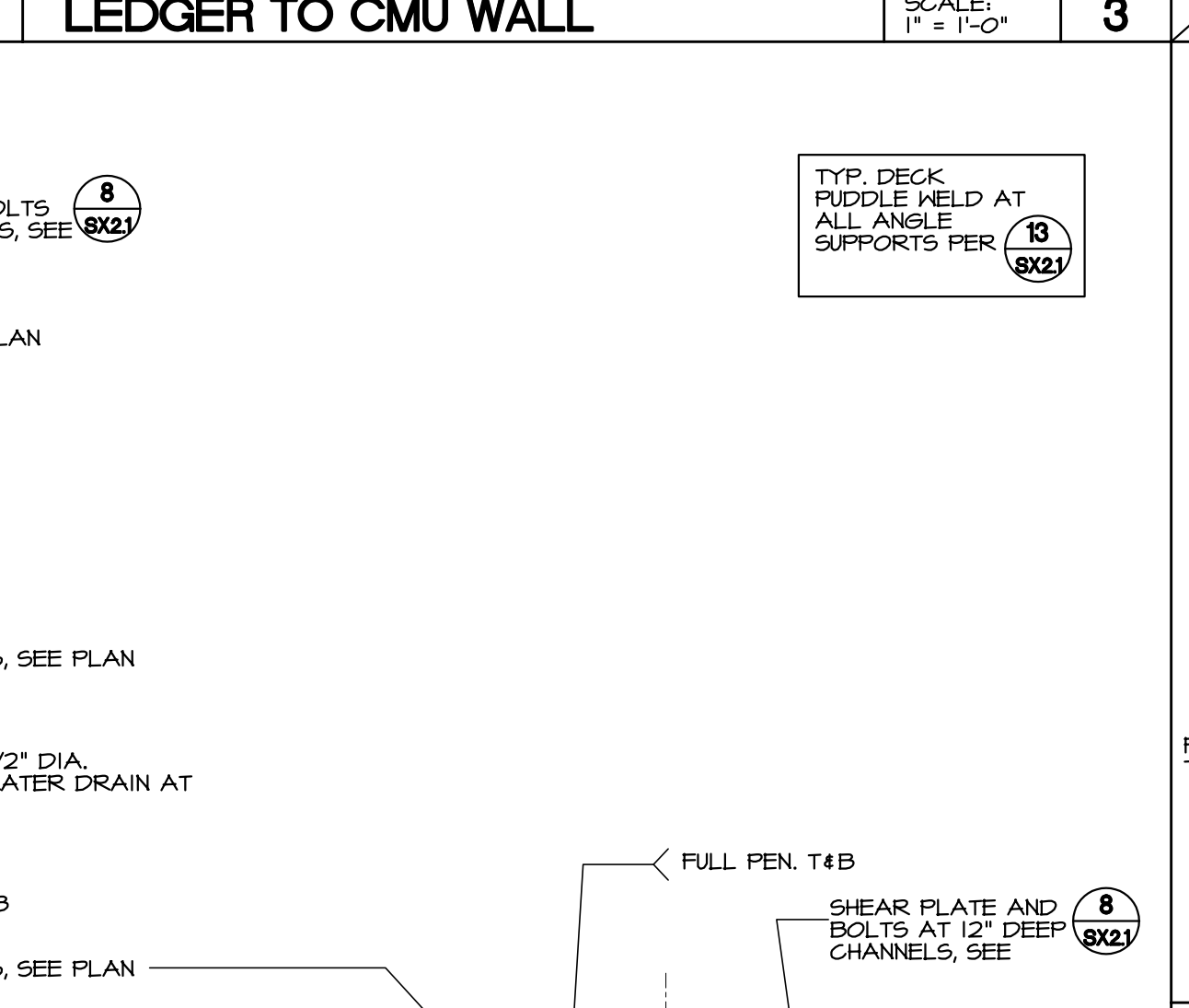
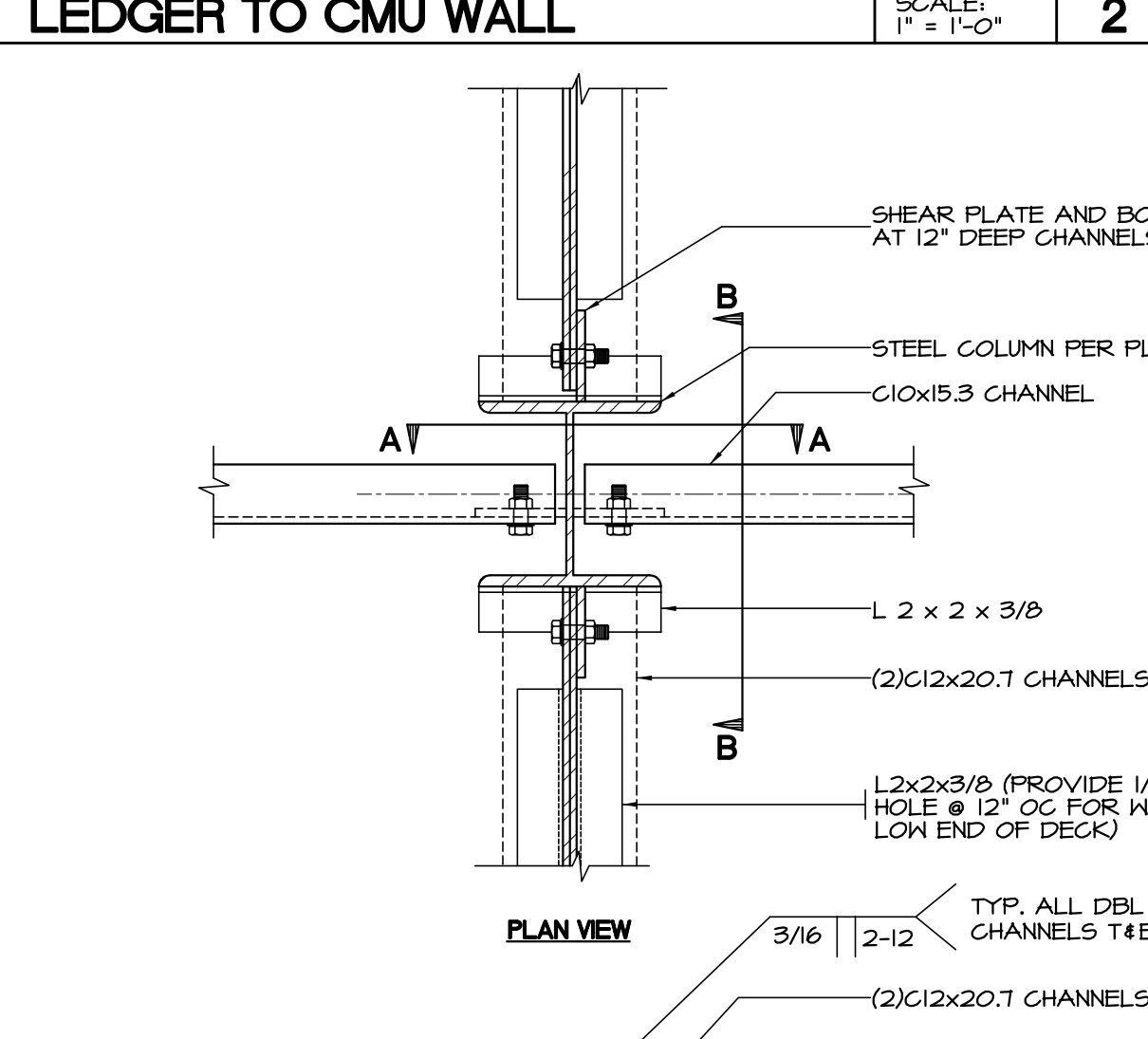
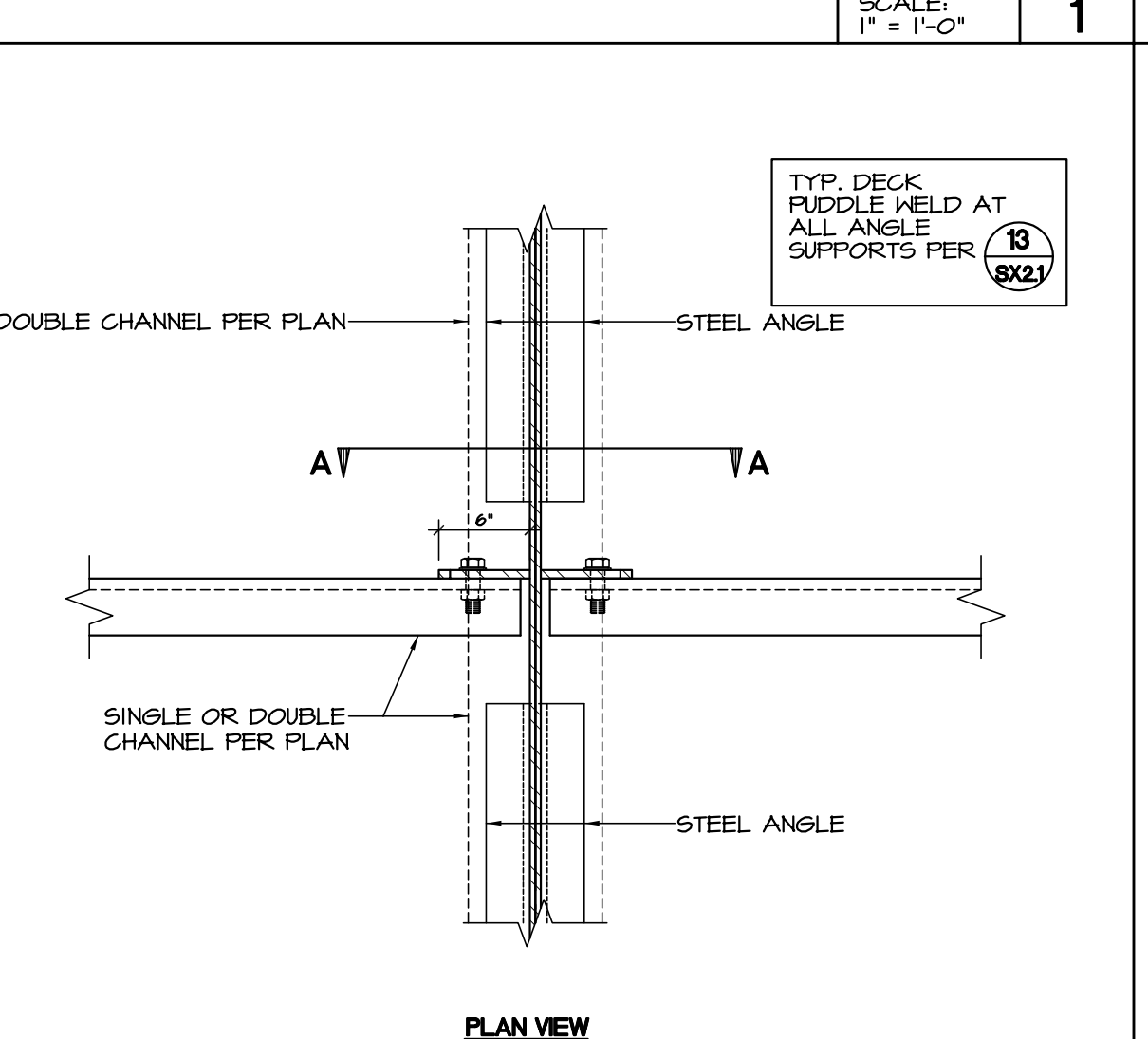
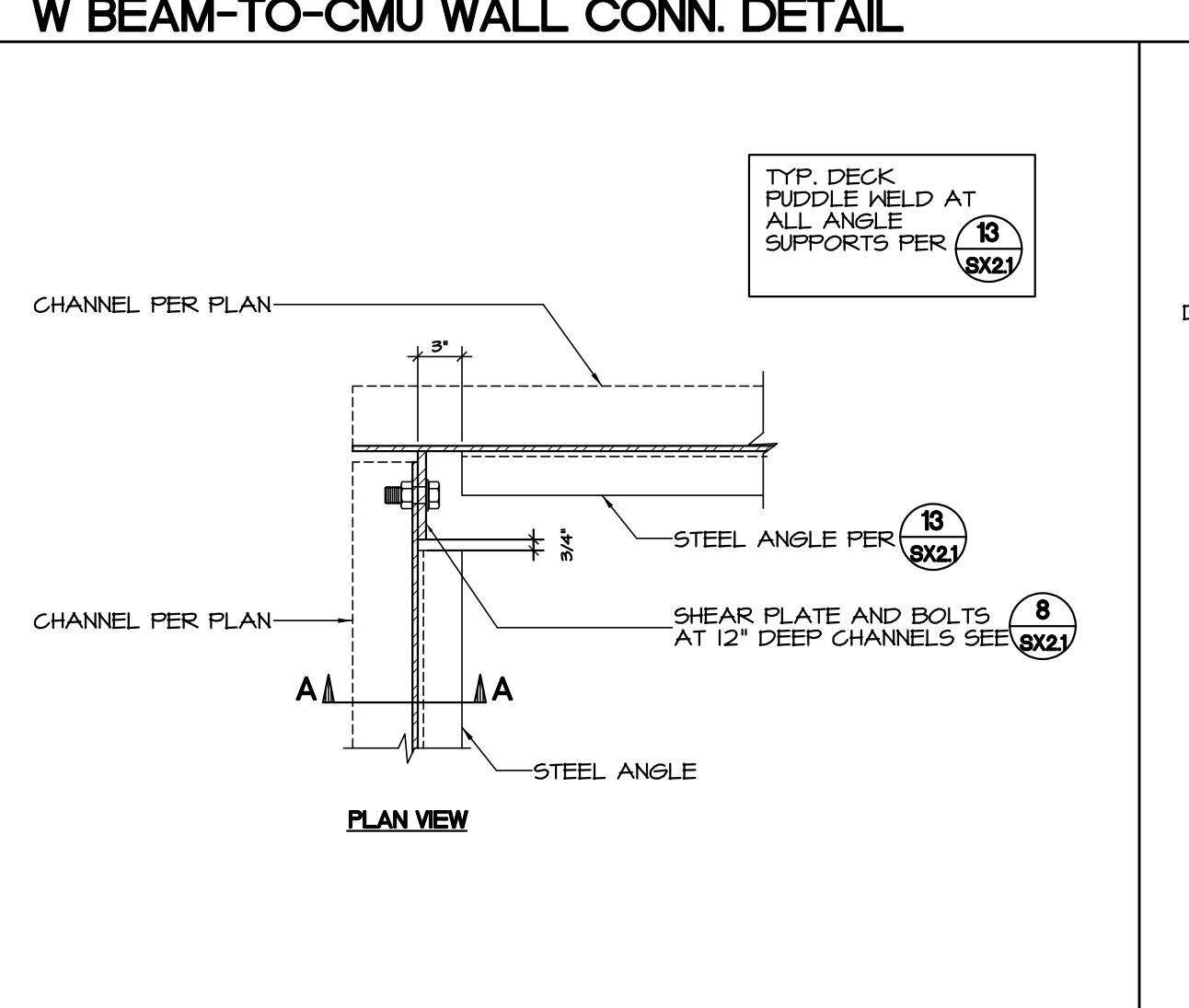
Sheet Title
FOUNDATION DETAILS

Document Date 04-01-22	Project Number 22-091V
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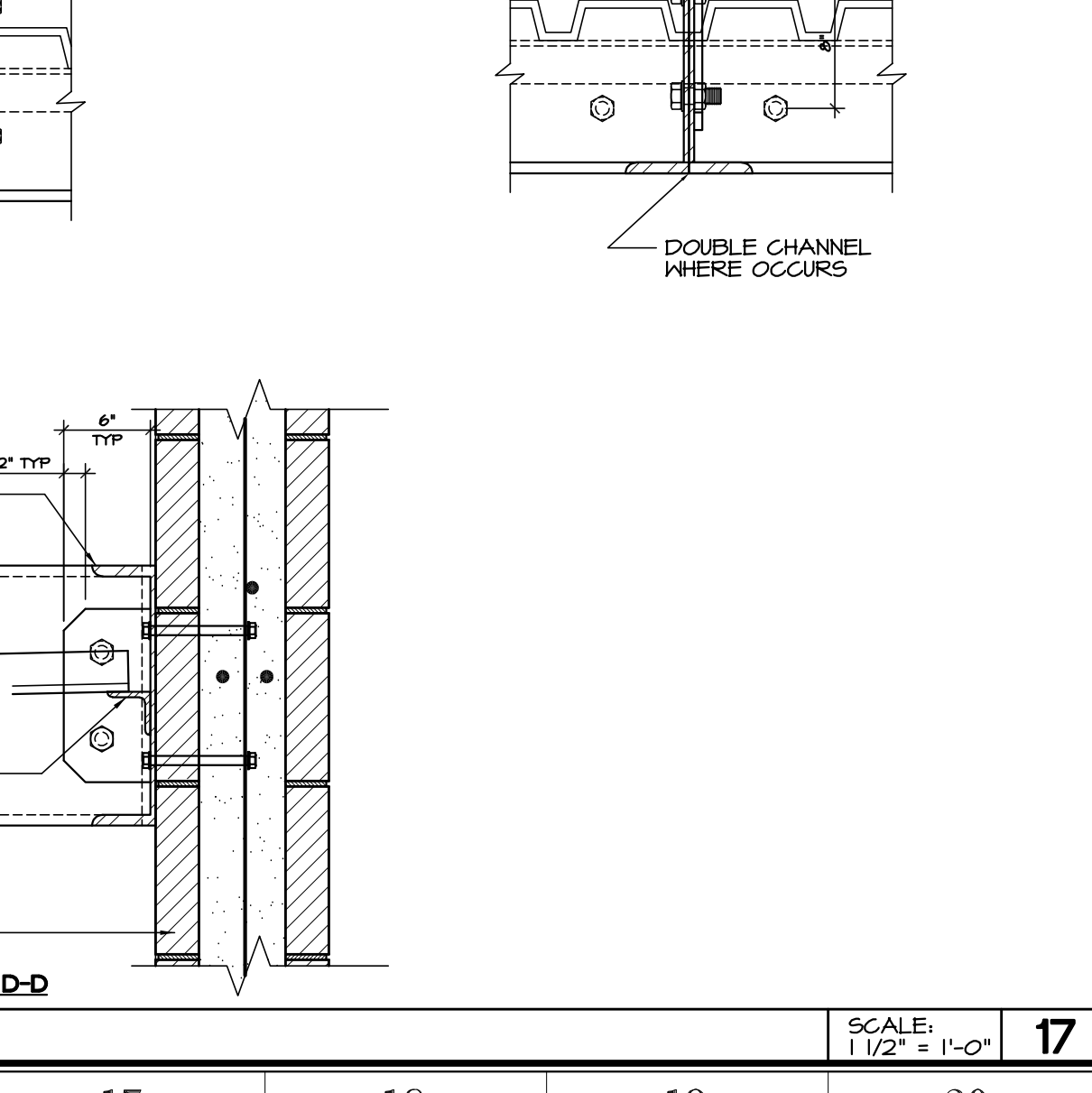
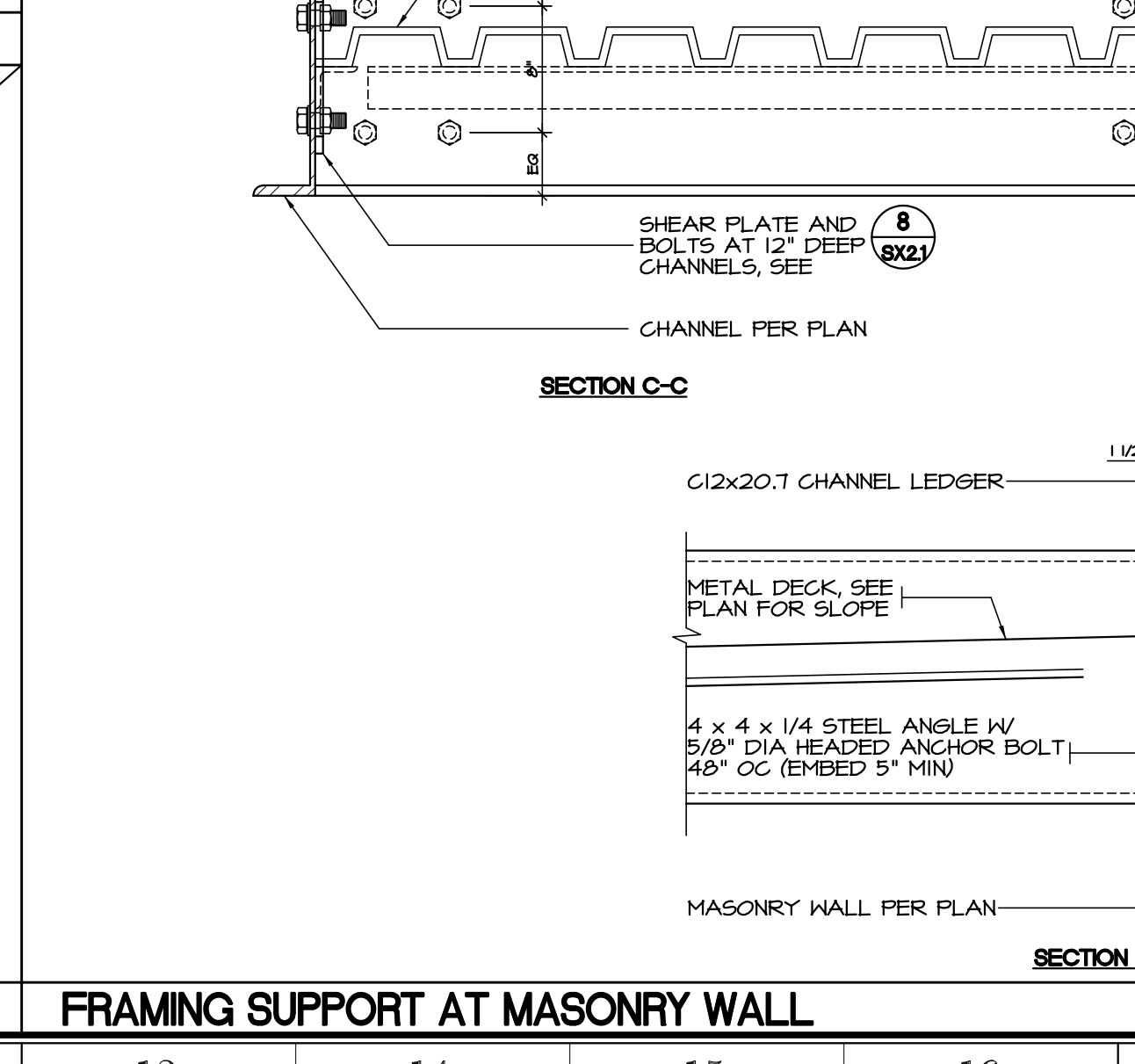


NOT USED

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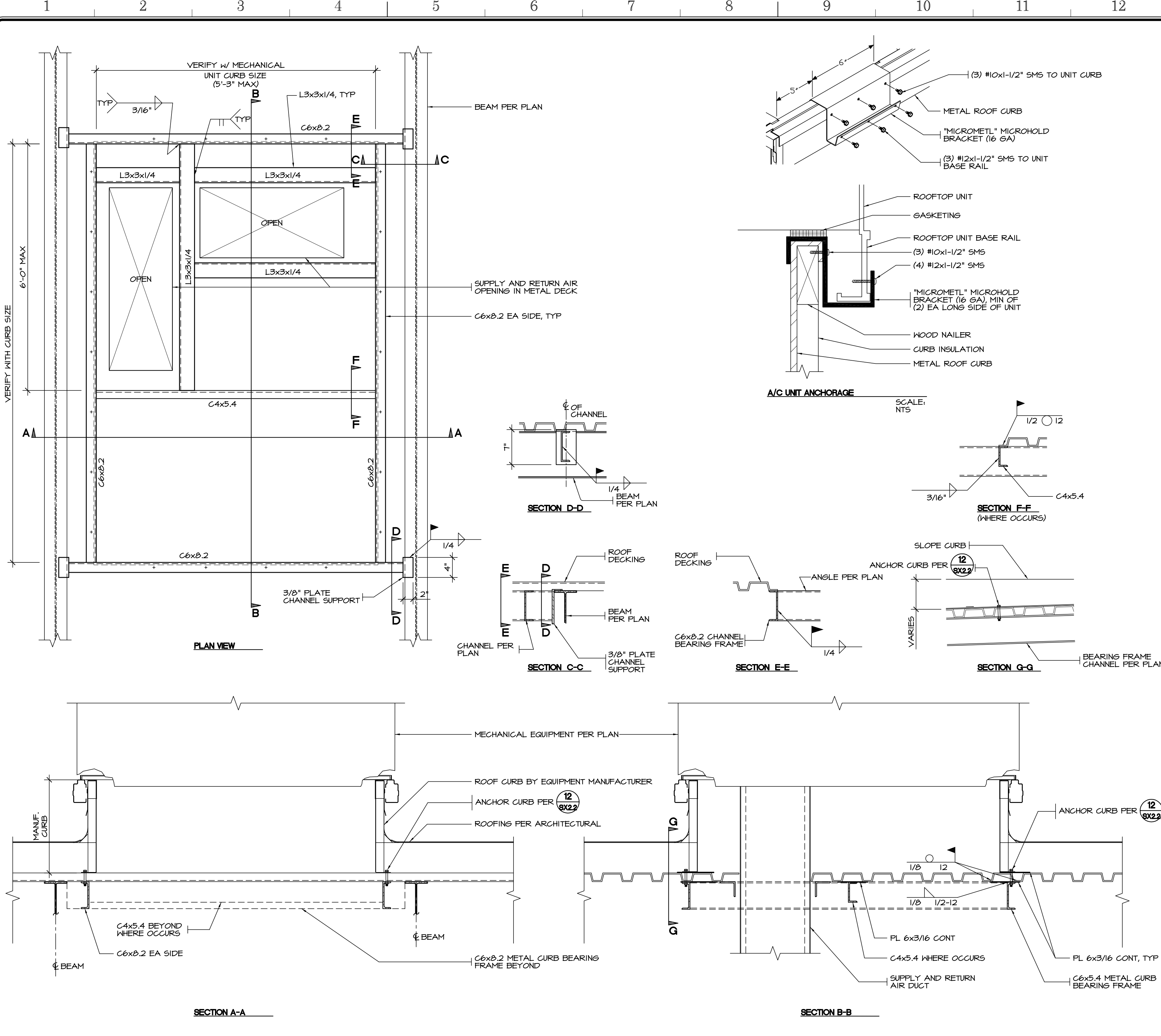
TYPICAL PARAPET SCALE: 1" = 1'-0"

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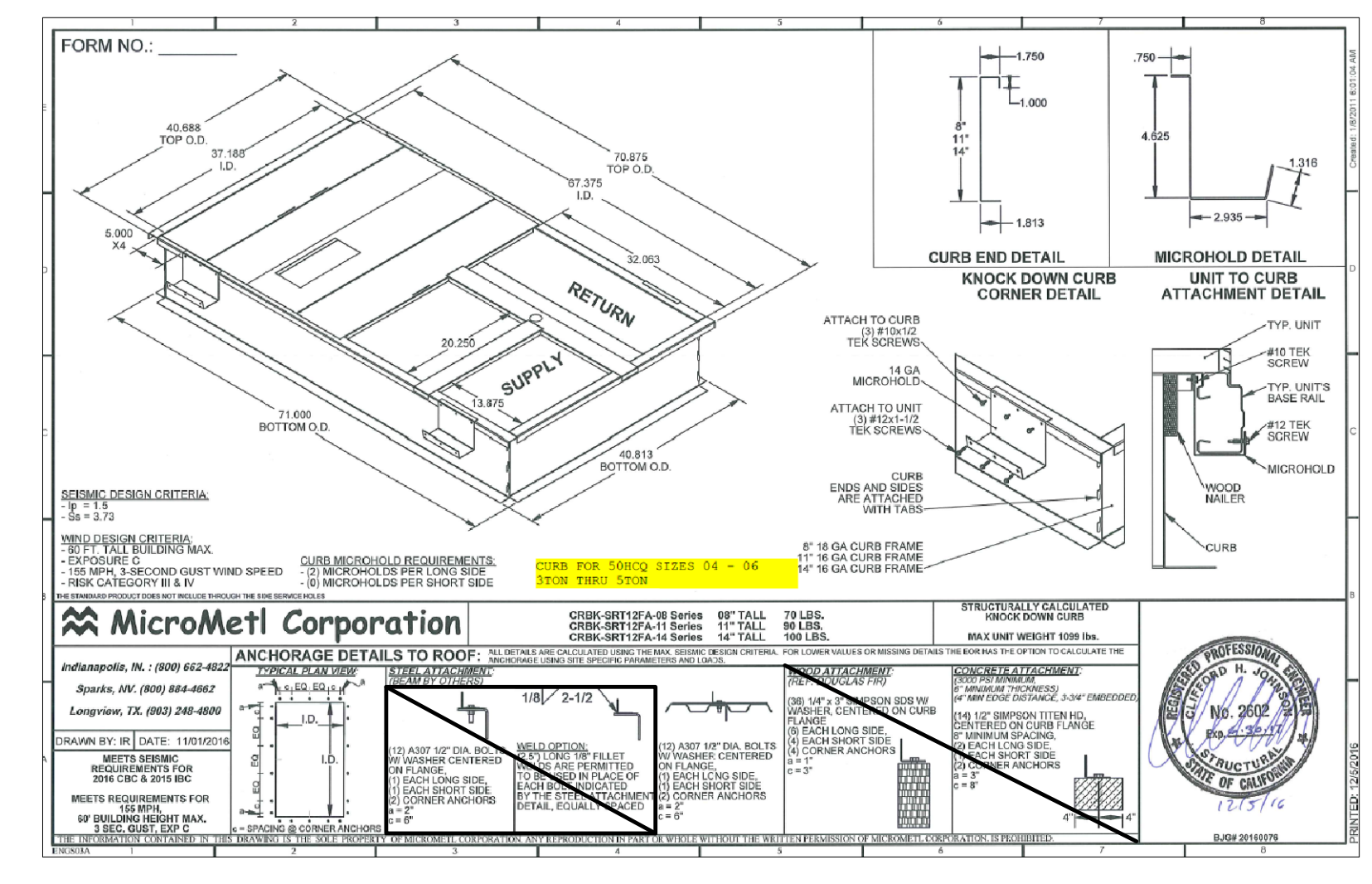
Project Title
**IMPERIAL VALLEY COLLEGE
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Sheet Title
FRAMING DETAILS

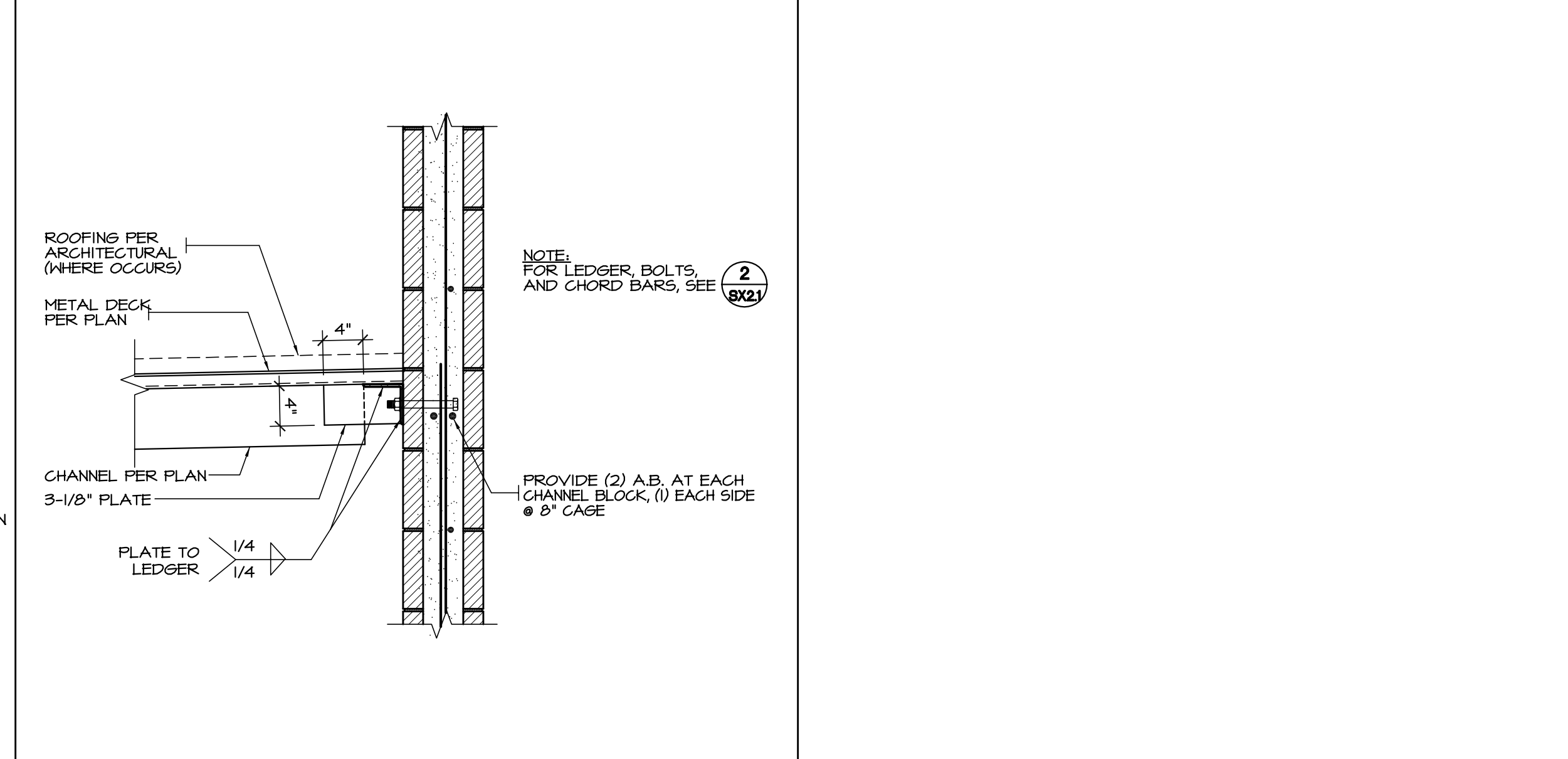
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HVAC ROOF MOUNTING DETAIL SCALE: 1" = 1'-0" **1**



MICROMETL HVAC CURB DETAIL SCALE: N.T.S. **12**



WALL BRACING DETAIL SCALE: 1" = 1'-0" **13**

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Project Title
**IMPERIAL VALLEY COLLEGE
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Sheet Title
FRAMING DETAILS

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PIPE SCHEDULE

Table with columns for SERVICE, LOCATION, FITTINGS, and NOTES. Lists various pipe types like WATER, WASTE & VENT, RAINWATER, FUEL GAS, AC COND DRAIN, INDIRECT DRAIN, ACID WASTE & VENT, LAB PURGE WATER.

- Notes for pipe schedule including: 1. INSULATE HOT WATER w/ 1" FIBERGLASS PIPE INSULATION w/ ASJ & FITTINGS COVERS. 2. LEAD FREE SOLDER. 3. PIPING BELOW FLOOR TO BE SOFT TEMPER w/ NO JOINTS BELOW FLOOR.

WATER USE SCHEDULE

Table with columns for FIXTURE TYPE, MAX FLOW RATE, BASELINE, and PROPOSED DESIGN. Lists fixtures like WATER CLOSET, URINAL, SHOWER HEAD, LAVATORY FAUCET, etc.

- Notes for water use schedule: 1. PLUMBING FIXTURES SHALL MEET THE MAXIMUM FLOW RATE VALUES PER 2016 CBC CHAPTER 5 DIVISION 3. 2. LAVATORY FAUCETS IN PUBLIC RESTROOMS SHALL BE THE SELF-CLOSING TYPE.

Water Data and Pipe Capacity Schedule sections. Includes text about existing water meter and piping mains, and tables for pipe capacity schedules based on size and flow rate.

PIPE SIZING CHART table showing size, GPM, velocity, and fixture units for different pipe sizes.

WATER FIXTURE UNIT SUMMARY table showing quantity, fixture type, fixture unit, and total for various fixtures.

Commercial Water Fixture Flow Rates table with fixture type and maximum flow rate. Includes notes about fixture and fitting compliance with building codes.

LEGEND:

Legend table with columns for ABBR, SYMBOL, and DESCRIPTION. Lists symbols for cold water piping, hot water piping, hot water return piping, natural gas piping, sanitary vent piping, waste/vent piping, soil/waste above grade, condensate drain piping, indirect drain piping, storm drain piping, overflow storm drain piping, floor sink, floor drain, roof drain/over floor drain, wall clean-out w/ access panel, floor clean-out, clean-out to grade, press & temp relief valve, shut off (ball) valve (in riser), shut off (ball) valve (in-line), check valve, strainer, red pressure backflow preventer, union, cap, hose bibb, point of connection, vent thru roof, under ground, below floor, above ceiling, up through roof, water column (gas), yard box, water hammer arrestor, access panel, unless noted otherwise, grease waste, acid waste, acid vent.

GENERAL NOTES:

- 1. THESE DRAWINGS ARE A DIAGRAMMATIC REPRESENTATION OF THE PLUMBING WORK TO BE ACCOMPLISHED AND AS SUCH ARE NOT INTENDED TO SHOW ALL REQUIRED OFFSETS OF PIPING. THE PLUMBING CONTRACTOR SHALL INSTALL MATERIAL AND EQUIPMENT 50 AS TO CONFORM TO THE STRUCTURE, AVOID OBSTRUCTIONS, AND MAINTAIN HEADROOM AND PASSEWAYS. 2. ALL LOCATIONS, POINTS-OF-CONNECTION, INVERTS, SIZES, AND AVAILABILITY OF ALL EXISTING UTILITIES SHALL BE VERIFIED BY THE PLUMBING CONTRACTOR PRIOR TO THE COMMENCEMENT OF THE INSTALLATION.

TITLE 24 NOTES:

- 1. PIPING SHALL BE INSULATED CONSISTENT WITH THE REQUIREMENTS OF CALIFORNIA ADMINISTRATIVE CODE, T24, SECTIONS 118, 123, & 124 E.E.S. 2. PLUMBING EQUIPMENT REQUIRING CERTIFICATION AS IDENTIFIED IN THE CALIFORNIA ADMINISTRATIVE CODE, TITLE 24, SECTIONS 1111.11, 1112.11, & 1113.11, SHALL BE CERTIFIED BY THE MANUFACTURER TO COMPLY WITH THE C.E.C.'S APPLIANCE EFFICIENCY STANDARDS. CERTIFICATES OF COMPLIANCE SHALL BE PROVIDED AS PART OF THE EQUIPMENT SUBMITTALS.

ENERGY AND WATER CONSERVATION NOTES:

- 1. FIXTURE MAX FLOW RATES SHALL BE PER WATER USE SCHEDULE. 2. LAVATORY FAUCETS IN PUBLIC RESTROOMS SHALL BE THE SELF-CLOSING TYPE. 3. PROVIDE VACUUM BREAKERS AT HOSE BIBBS.

DESIGN CRITERIA:

- 1. 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 OF DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1601A.1.10 THROUGH 1601A.1.26 AND ASCE 7-10 CHAPTER 13, 26 & 30. A. ALL PERMANENT EQUIPMENT AND COMPONENTS. B. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRE) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. C. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL AND DIRECTLY SUPPORT THE COMPONENT ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

PLUMBING DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:

- 1. PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BRACE TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8 AND 2016 CBC, SECTIONS 1601A.1.24, 1601A.1.25 AND 1601A.1.26. 2. THE METHOD OF SHOWING BRACINGS AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW WHEN BRACINGS AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G. SHACNA OR OSHPD OPM). COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOB SITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS. MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEM (E). MP [] MD [] PP [] E [] - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. MP [] MD [] PP [] E [] - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #_024313_1_. MP [] MD [] PP [] E [] - OPTION 3: SHALL COMPLY WITH THE SHACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2008) INCLUDING ANY ADDENDA, FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SHACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL AND CONNECTION LEVEL FOR THE PROJECT AND CONDITIONS.

PLASTIC PIPE IN PLUMBING SYSTEMS:

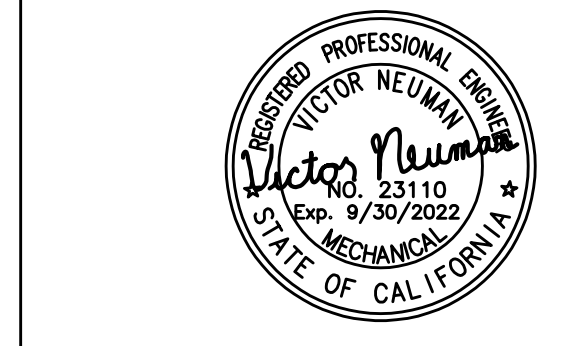
- 1. APPROPRIATE PLASTIC PIPE MAY BE USED FOR VENT PIPING IN BUILDINGS. IT MAY BE USED FOR WASTE LINES IN PORTABLE BUILDINGS ONLY. IT MAY BE USED FOR DRAINS CARRYING ACID WASTE IN LABORATORIES. IT SHALL NOT BE USED FOR WATER DISTRIBUTION LINES WITHIN A DISTANCE OF 5 FEET OUTSIDE OF BUILDINGS. 2. PLASTIC PIPE OF THE APPROPRIATE CLASS MAY BE USED UNDERGROUND OUTSIDE OF BUILDINGS FOR CARRYING GAS AND DRAINAGE WASTE. 3. PLASTIC CONDUIT AND INSULATION MAY BE USED WHERE PERMITTED IN TITLE 24. 4. FLAME SPREAD RATINGS FOR WALL INSULATION NOT TO EXCEED 25 AND SMOKE DEVELOPED INDEX NOT TO EXCEED 450 WHEN TESTED IN ACCORDANCE WITH ASTM E 84.

PLUMBING KITCHEN NOTES:

- INSTALLATION OF SOIL OR DRAIN PIPES IN FOOD HANDLING ESTABLISHMENTS SHALL COMPLY WITH SECTION 910.2 2016 C.F.C. - OPENINGS THROUGH FLOORS OVER FOOD HANDLING AREAS SHALL BE SEALED WATER TIGHT TO THE FLOOR CONSTRUCTION - FLOOR DRAINS OVER FOOD HANDLING AREAS SHALL BE EQUIPPED WITH INTEGRAL, SEE PAGE PANS - SOIL OR DRAIN PIPES SHALL BE OF APPROVED MATERIAL LISTED IN 1401.2 & T01 CLEANOUTS SHALL EXTEND THROUGH THE FLOOR ABOVE - PIPING SUBJECT TO OPERATION OF TEMPERATURES THAT WILL FORM CONDENSATION SHALL BE THERMALLY INSULATED - WHERE PIPES ARE INSTALLED IN CEILING ABOVE FOOD HANDLING AREAS THE CEILING SHALL BE OF THE REMOVABLE TYPE OR SHALL BE PROVIDED WITH ACCESS PANELS IN ORDER TO FORM A READY ACCESS FOR INSPECTION OF PIPING - PLUMBING CONTRACTOR SHALL EQUIPISH IN AND MAKE FINAL CONNECTIONS TO KITCHEN EQUIPMENT, SEE FOOD SERVICE DRAWINGS - COORDINATE EXACT REQUIREMENTS WITH KITCHEN EQUIPMENT CONTRACTOR PRIOR TO CONSTRUCTION, SEE FOOD SERVICE DRAWINGS - COORDINATE AND VERIFY EXACT LOCATION OF ALL FLOOR DRAINS AND FLOOR SINKS WITH KITCHEN EQUIPMENT CONTRACTOR, SEE FOOD SERVICE DRAWINGS - COORDINATE AND VERIFY EXACT LOCATION OF ALL FLOOR DRAINS AND FLOOR SINKS WITH KITCHEN EQUIPMENT CONTRACTOR, SEE FOOD SERVICE DRAWINGS - PROVIDE PRESS REGULATING VALVE FOR DISHWASHER WATER CONNECTION PER MFG REQUIREMENTS - VERIFY THE TYPE OF GRATES FOR FLOOR SINKS WITH KITCHEN EQUIPMENT CONTRACTOR GRATES SHALL BE REMOVABLE, SEE FOOD SERVICE DRAWINGS - ALL DIRECT CONNECT WATER CONNECTIONS TO APPLIANCES SHALL BE INDIVIDUALLY POINT-OF-USE PROTECTED AGAINST BACKFLOW CARBON FILTRATION PRE-SINKS AUGETS, RO COMB-OVENS, WATER SYSTEMS AND COUNTERTOP EQUIPMENT WITH WATER CONNECTIONS SHALL BE PROTECTED BY REDUCED PRESSURE BACKFLOW PREVENTERS WITH MACHINES, COFFEE MAKERS, AND SIMILAR EQUIPMENT WITH DIRECT CONNECTION TO POTABLE WATER SHALL BE PROTECTED BY A DOUBLE CHECK VALVE TYPE BACKFLOW PREVENTER - PROVIDE WATTS REDUCED PRESSURE BACKFLOW PREVENTER FOR POINT OF USE PROTECTION FOR WATER FILTERS WITH DRAIN TO FLOOR SINK - PLUMBING CONTRACTOR IS TO INSTALL & PROVIDE POINT OF USE FILTRATION AS REQUIRED AND SPECIFIED ON SEE FOOD SERVICE DRAWINGS - PROVIDE ALL INDIRECT WASTE PIPING PER KITCHEN EQUIPMENT DRAWINGS, INSULATE REFRIGERATED DRAINS - SEE PLUMBING NOTES ON KITCHEN EQUIPMENT DRAWINGS - HOT WATER TO KITCHEN EQUIPMENT SHALL BE 140 DEG - PROVIDE THERMOSTATIC MIXING VALVE TO REDUCE 140 DEG WATER TO 110 DEG TO TOILET ROOM LAVATORIES & KITCHEN HAND SINKS - THE KITCHEN EQUIPMENT CONTRACTOR SHALL PROVIDE AN AUTOMATIC SOLENOID VALVE IN THE GAS LINE TO THE KITCHEN EQUIPMENT UNDER THE KITCHEN HOOD WITH AN ACCESS PANEL IF NOT EXPOSED. IT SHALL BE INSTALLED BY THE PLUMBING CONTRACTOR - ALL DISH PAN AND WARE WASHERS MUST DRAIN TO A 2" TRAPPED FLOOR SINK WITH A CPC AIR GAP, FLOOR SINK TO BE MINIMUM 12"x12"x10" DEEP

PLUMBING FIXTURE SCHEDULE:

- P-1 WATER CLOSET, FLOOR MOUNTED, ACCESSIBLE TOILET - ZURN #25665 ELONGATED, 'EVO'ANTASE' 1.28 GPF SEAT - ZURN #25600V4-HET-CPM SENSOR OPERATED (BATTERY) SEAT - OLSONITE #45 OFLC P-2 URINAL, HALL HUNG, ACCESSIBLE URINAL - ZURN #5155-U, 0.125 GPF VALVE - ZURN #25600V4-ALIF-CPM SENSOR OPERATED (BATTERY) SUPPORT - ZURN #2-1222 CARRIER P-3 LAVATORY, HALL HUNG (COLD ONLY) BASIN - ZURN #25344 20" x 10" SINGLE HOLE FAUCET - ZURN #256100-XL METERING FAUCET, 0.25 GPC @10SEIC/BOPSI STRAINER - ZURN #252143 GRID DRAIN SUPPORT - WALL PLATE PER SPECIFICATIONS W/ (4) 3/8" ANCHORS MIN (OR ZURN #2131-EZR CARRIER) P-4 LAVATORY, HALL HUNG (HOT AND COLD WATER) BASIN - ZURN #25344 20" x 10" SINGLE HOLE FAUCET - ZURN #256100-XL METERING FAUCET, 0.25 GPC @10SEIC/BOPSI STRAINER - ZURN #252143 GRID DRAIN SUPPORT - WALL PLATE PER SPECIFICATIONS W/ (4) 3/8" ANCHORS MIN (OR ZURN #2131-EZR CARRIER) ACCESSORY - ZURN #25870X10L1 THERMOSTATIC MIXING VALVE P-5 MOP BASIN BASIN - FIAT #2424M5B, 3" OUTLET FAUCET - FIAT #256100-XL VACUUM BREAKER STRAINER - FIAT W/ BASIN ACCESSORY - #852-AA HOSE AND BRACKET, BUMPER GUARDS P-6 FLOOR DRAIN DRAIN - ZURN #2-415 W/ 1/4" MAX STRAINER OPENINGS IN ALL DIRECTIONS ACCESSORY - TRAP PRIMER INLET P-11 FLOOR SINK SINK - ZURN #2-1401, 12" x 12" x 10" DEEP W/ FLANGE AND COLLAR ACCESSORIES - SEDIMENT BUCKET @ KITCHEN AND LABORATORY, TRAP PRIMER WHERE REQUIRED, 1/2 OR 1/4 GRATE AS SHOWN ON KITCHEN EQUIPMENT PLANS, 6" OR 8" DEEP WHERE NOTED P-12 ROOF/OVERFLOW ROOF DRAINS (MAIN ROOF) DRAINS - ZURN #2-100-C (ROOF), Z-100-H2 (OVERFLOW) ACCESSORIES - CAST IRON DOME (NO PLASTIC), UNDERDECK CLAMP FLASHING - 4 LB LEAD, 8" ALL AROUND DRAIN BODY DOWNSPOUT NOZZLE - ZURN #2-141 P-13 ROOF/OVERFLOW ROOF DRAINS (COVERED WALKS) DRAIN - ZURN #2-100-40-C (ROOF) & #2-100-H2 (OVERFLOW) ACCESSORIES - CAST IRON DOME (NO PLASTIC), UNDERDECK CLAMP FLASHING - 4 LB LEAD, 8" ALL AROUND DRAIN BODY DOWNSPOUT NOZZLE - ZURN #2-141 P-16 WATER HEATER, ELECTRIC, STORAGE TYPE HEATER - E550-15 STORAGE CAPACITY - 50 GALLONS RECOVERY - 14 GPM @ 80 DEGREE F RISE ELECTRICAL 3 KW ELEMENTS @ 208 VOLT, 1 PHASE ACCESSORIES - VICTAULIC DIELECTRIC WATERWAYS @ HOT & COLD CONNECTIONS TO HEATER, P & TRV W/ FULL SIZE DRAIN ANTILOCK, #515 EXPANSION TANK, 1/4" CW BALL TYPE 5.0/1.5 OPERATING WEIGHT (FULL) - 684 LBS P-17 CIRCULATING PUMP, HOT WATER PUMP - GRUNDFOS #UP26-46BF CAPACITY - 10 GPM @ 15 TDH ELEC - 1/25 HP @ 120-160 CONTROL - GRUNDFOS TIMER/T-STAT P-18 HOSE BIBB W/ VACUUM BREAKER BIBB - ACON #0121 FINISH - ROUGH GRABME P-22 CONCESSIONS SINK, 3-COMPARTMENT SINK - INTEGRAL W/ STAINLESS STEEL COUNTERTOP FAUCET - 1402) CHICAGO #445-18 BACKSPASH MOUNT DISPOSER - ONEU INSINKERATOR #444, 3/4 HP, 120-160 STRAINER - 1402) STAINLESS STEEL, GRABME GIP TYPE MISC - COORDINATE BACKSPASH DRILLINGS REQUIREMENTS W/ COUNTERTOP FABRICATOR P-23 CONCESSIONS HAND SINK, HALL MOUNTED SINK - ELKAY 559 #854-14 SINGLE COMPARTMENT 18 GA STAINLESS STEEL, 3" DEEP FAUCET - SPLASH MOUNTED SHAVEL GOOSENECK W/ 4" HEIST ACTION HANDLES ACCESSORIES - P-TRAP COVER P-24 DRINKING FOUNTAIN, STANDARD/ACCESSIBLE FOUNTAIN - (2) HANS #104, 18 GA FABRICATED STAINLESS STEEL WATER BOTTLE FILLER - HANS #120 SUPPORT - WALL HANGER W/ MIN (4) 3/8" x 1" ANCHOR MOUNTING HEIGHT - AS SHOWN ON ARCHITECTURAL DRAWINGS CHILLER - HANS #1208 CAPACITY - 8 GPM AT 50 DEGREES F W/ 80 DEGREE F INLET ELECTRICAL (CHILLER) - 5A @ 115-160 ELECTRICAL (BOTTLE FILLER) - 0.14A @ 115-160



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CONCESSIONS SINK, 3-COMPARTMENT

SINK - INTEGRAL W/ STAINLESS STEEL COUNTERTOP FAUCET - 1402) CHICAGO #445-18 BACKSPASH MOUNT DISPOSER - ONEU INSINKERATOR #444, 3/4 HP, 120-160 STRAINER - 1402) STAINLESS STEEL, GRABME GIP TYPE MISC - COORDINATE BACKSPASH DRILLINGS REQUIREMENTS W/ COUNTERTOP FABRICATOR

CONCESSIONS HAND SINK, HALL MOUNTED

SINK - ELKAY 559 #854-14 SINGLE COMPARTMENT 18 GA STAINLESS STEEL, 3" DEEP FAUCET - SPLASH MOUNTED SHAVEL GOOSENECK W/ 4" HEIST ACTION HANDLES ACCESSORIES - P-TRAP COVER

DRINKING FOUNTAIN, STANDARD/ACCESSIBLE

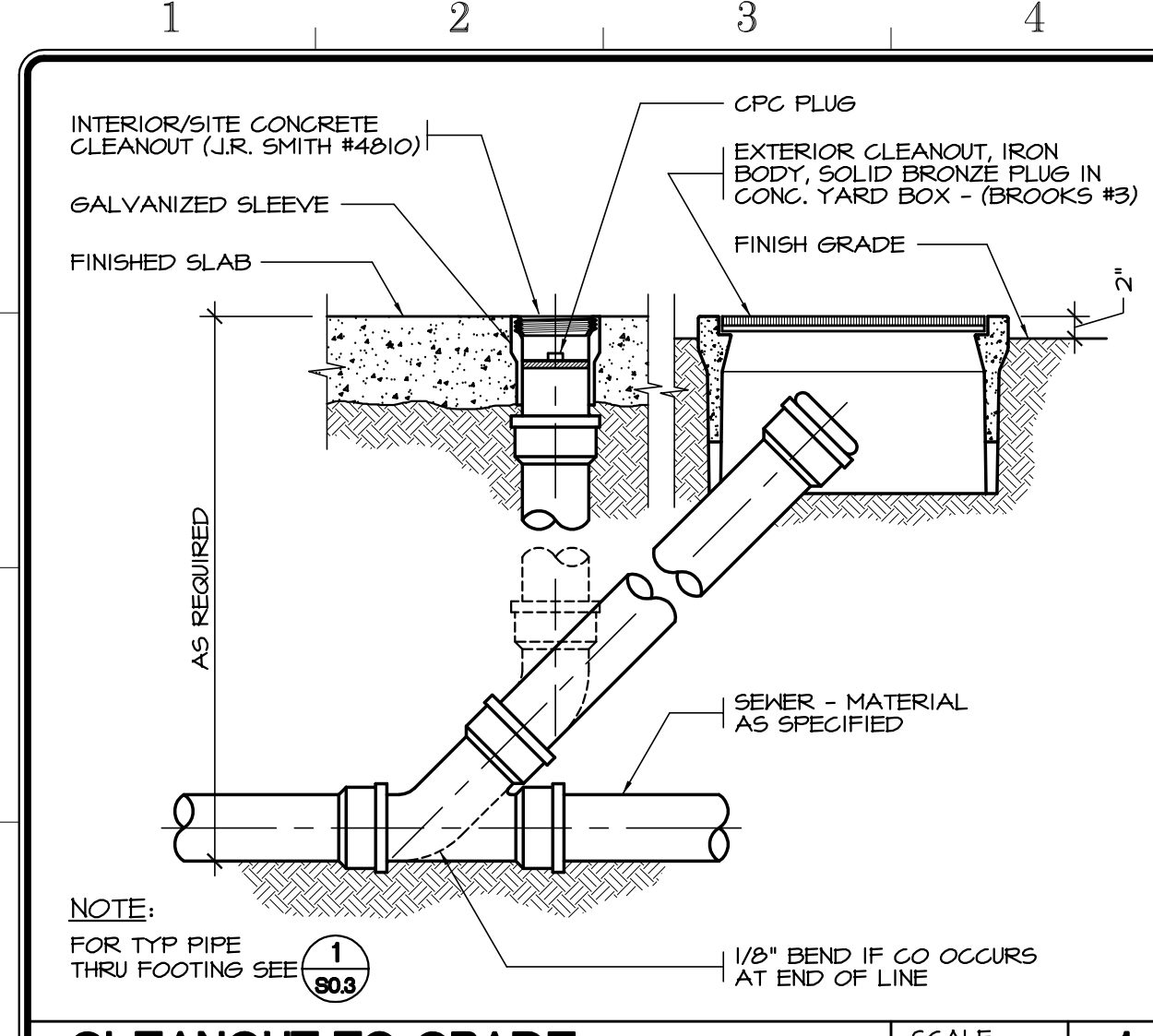
FOUNTAIN - (2) HANS #104, 18 GA FABRICATED STAINLESS STEEL WATER BOTTLE FILLER - HANS #120 SUPPORT - WALL HANGER W/ MIN (4) 3/8" x 1" ANCHOR MOUNTING HEIGHT - AS SHOWN ON ARCHITECTURAL DRAWINGS CHILLER - HANS #1208 CAPACITY - 8 GPM AT 50 DEGREES F W/ 80 DEGREE F INLET ELECTRICAL (CHILLER) - 5A @ 115-160 ELECTRICAL (BOTTLE FILLER) - 0.14A @ 115-160

PLASTIC PIPE IN PLUMBING SYSTEMS:

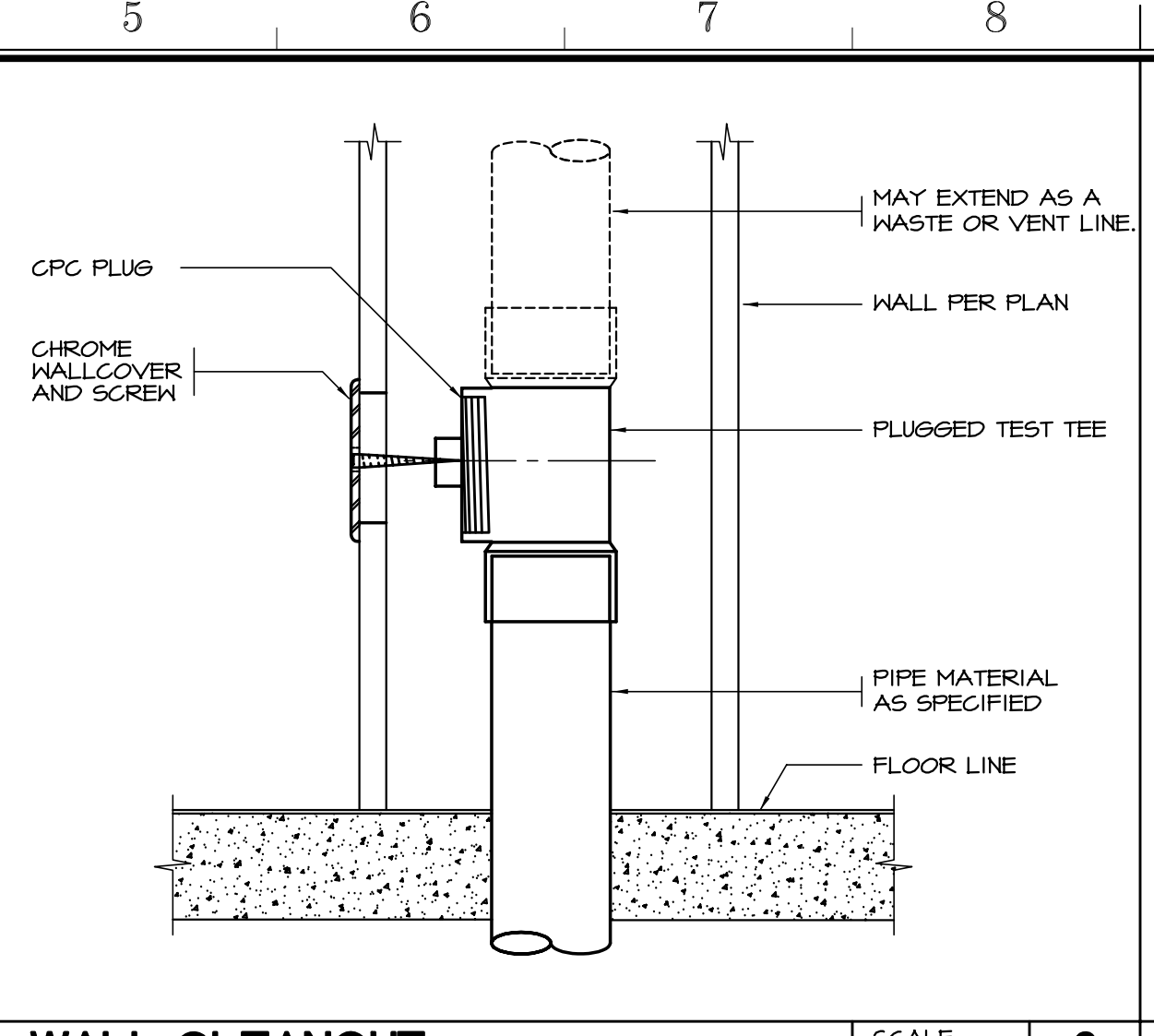
- 1. APPROPRIATE PLASTIC PIPE MAY BE USED FOR VENT PIPING IN BUILDINGS. IT MAY BE USED FOR WASTE LINES IN PORTABLE BUILDINGS ONLY. IT MAY BE USED FOR DRAINS CARRYING ACID WASTE IN LABORATORIES. IT SHALL NOT BE USED FOR WATER DISTRIBUTION LINES WITHIN A DISTANCE OF 5 FEET OUTSIDE OF BUILDINGS.

PLUMBING KITCHEN NOTES:

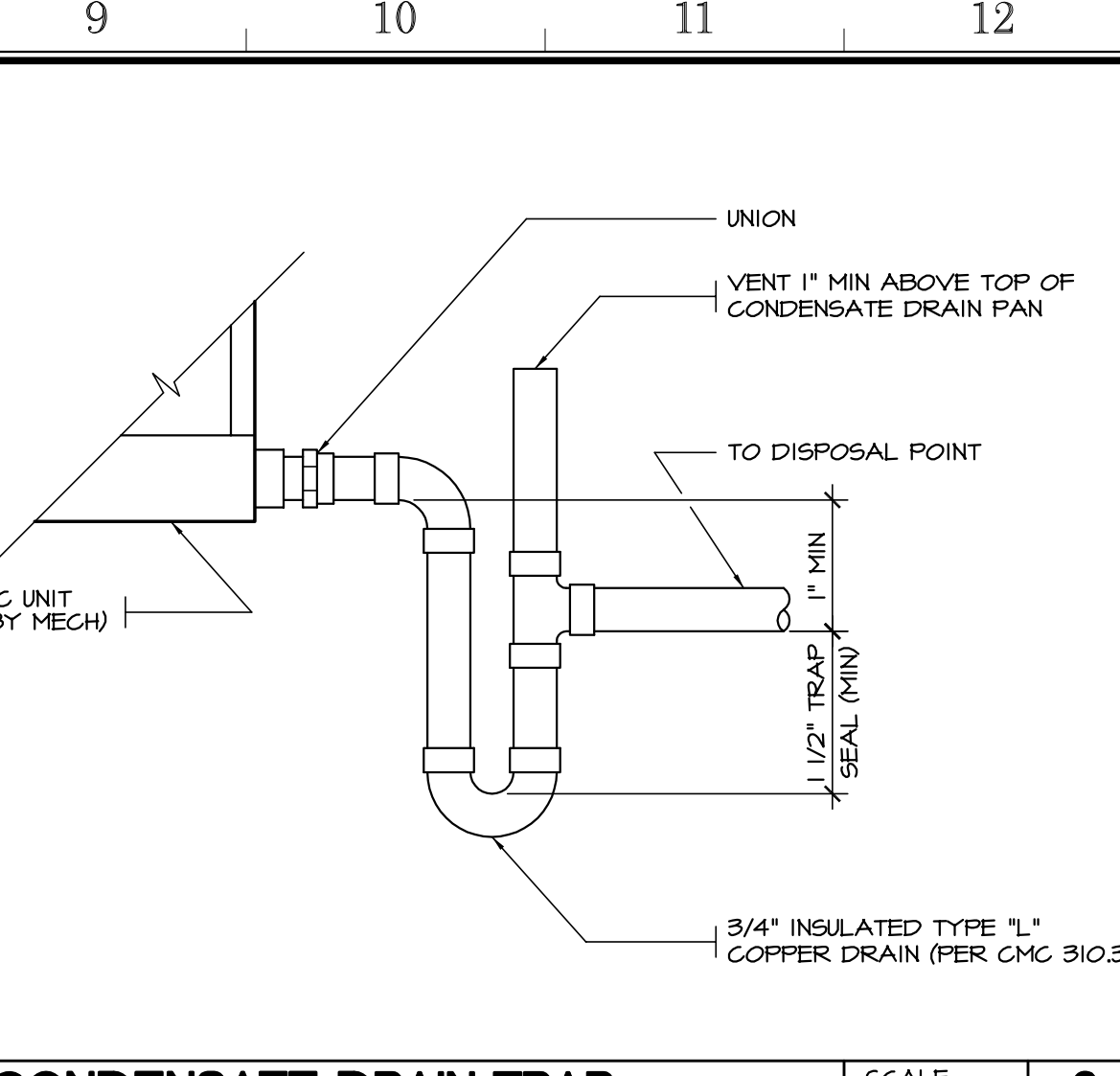
Project information and legend section. Includes project title: IMPERIAL VALLEY COLLEGE RESTROOM/CONCESSION BUILDING, sheet title: LEGEND AND NOTES, document date: 04-01-22, project number: 22-091V, sheet number: PO.1, and a licensed architect seal for Sanders, Inc.



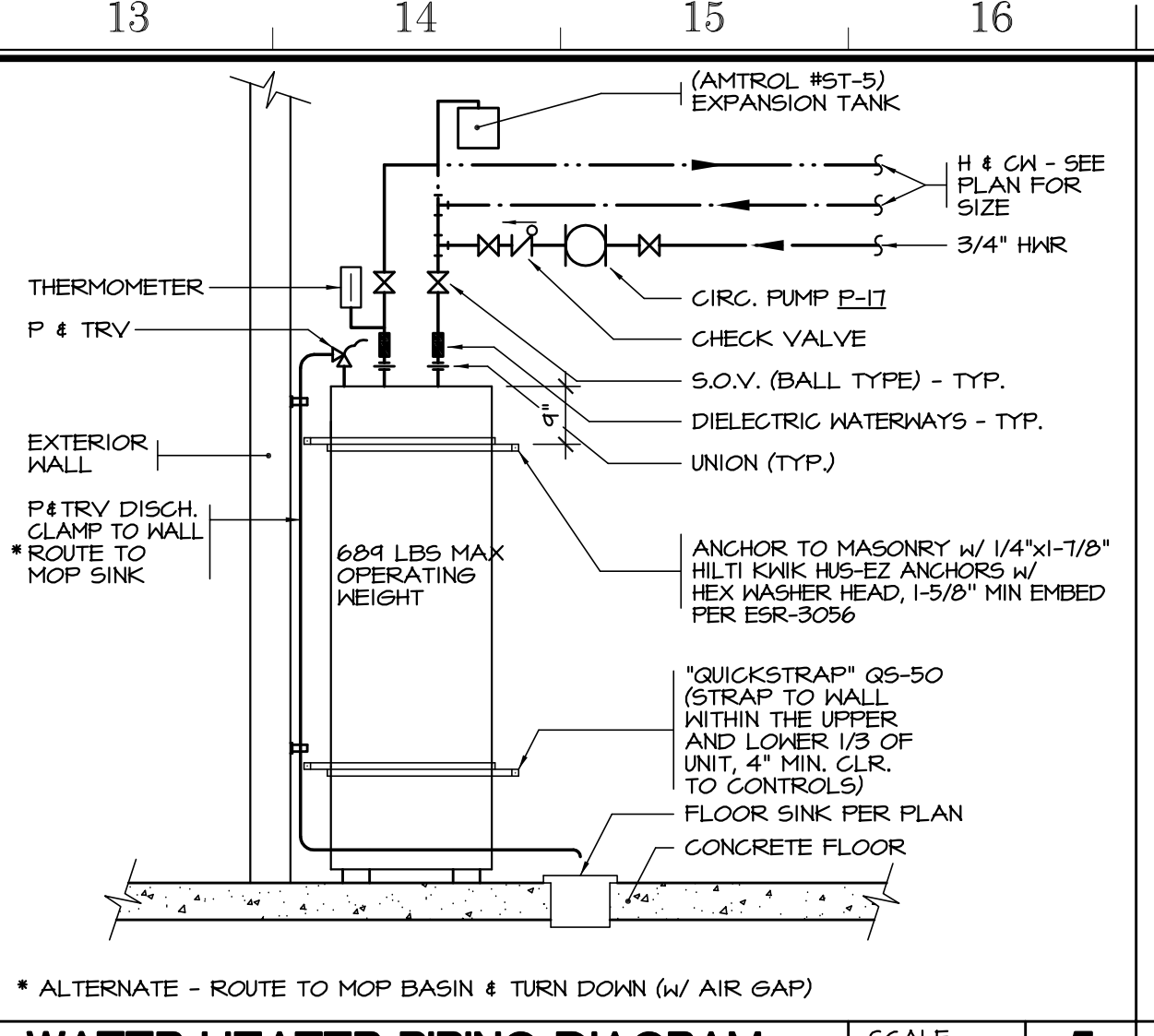
CLEANOUT TO GRADE SCALE: NTS 1



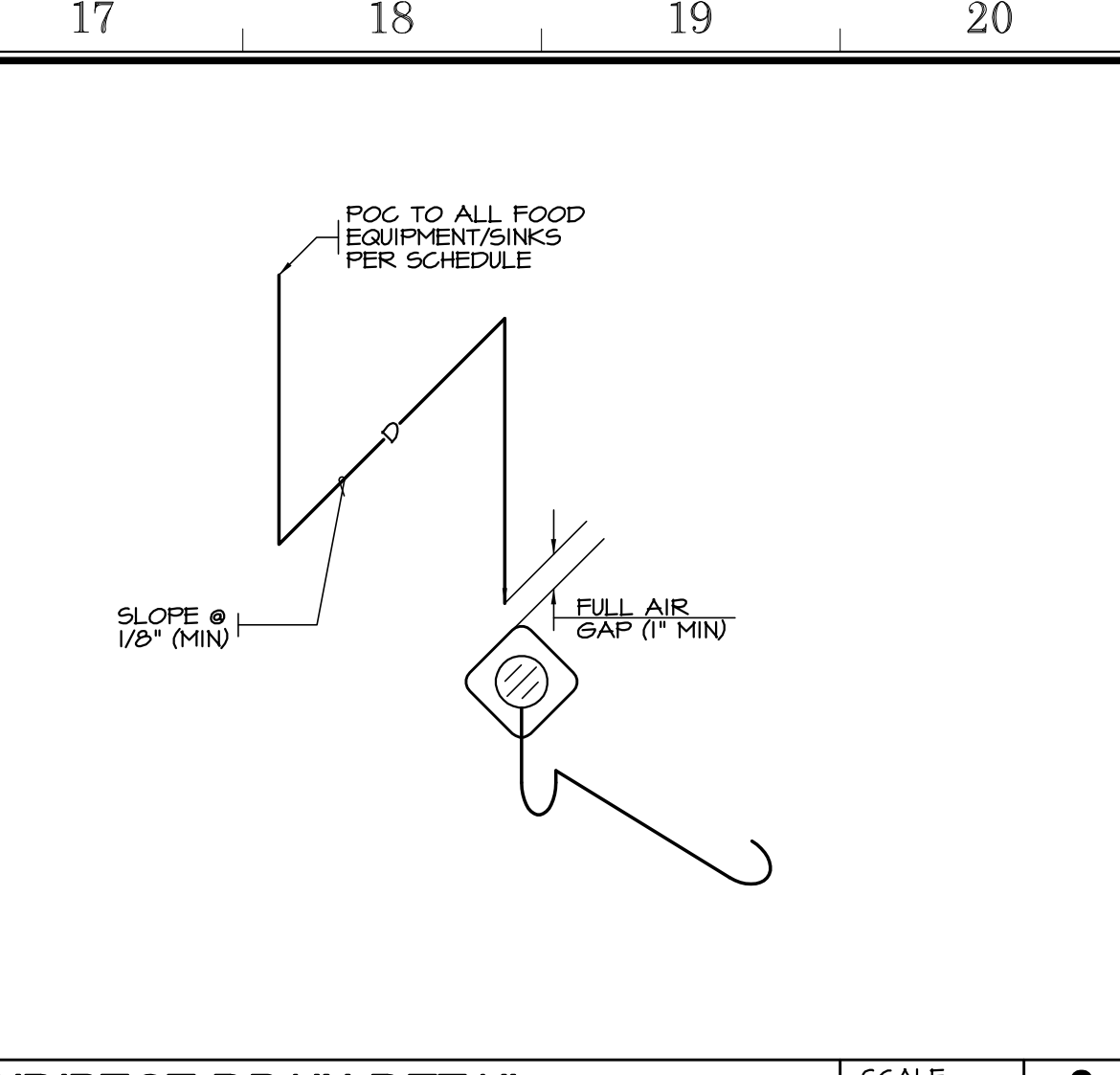
WALL CLEANOUT SCALE: NTS 2



CONDENSATE DRAIN TRAP SCALE: NTS 3



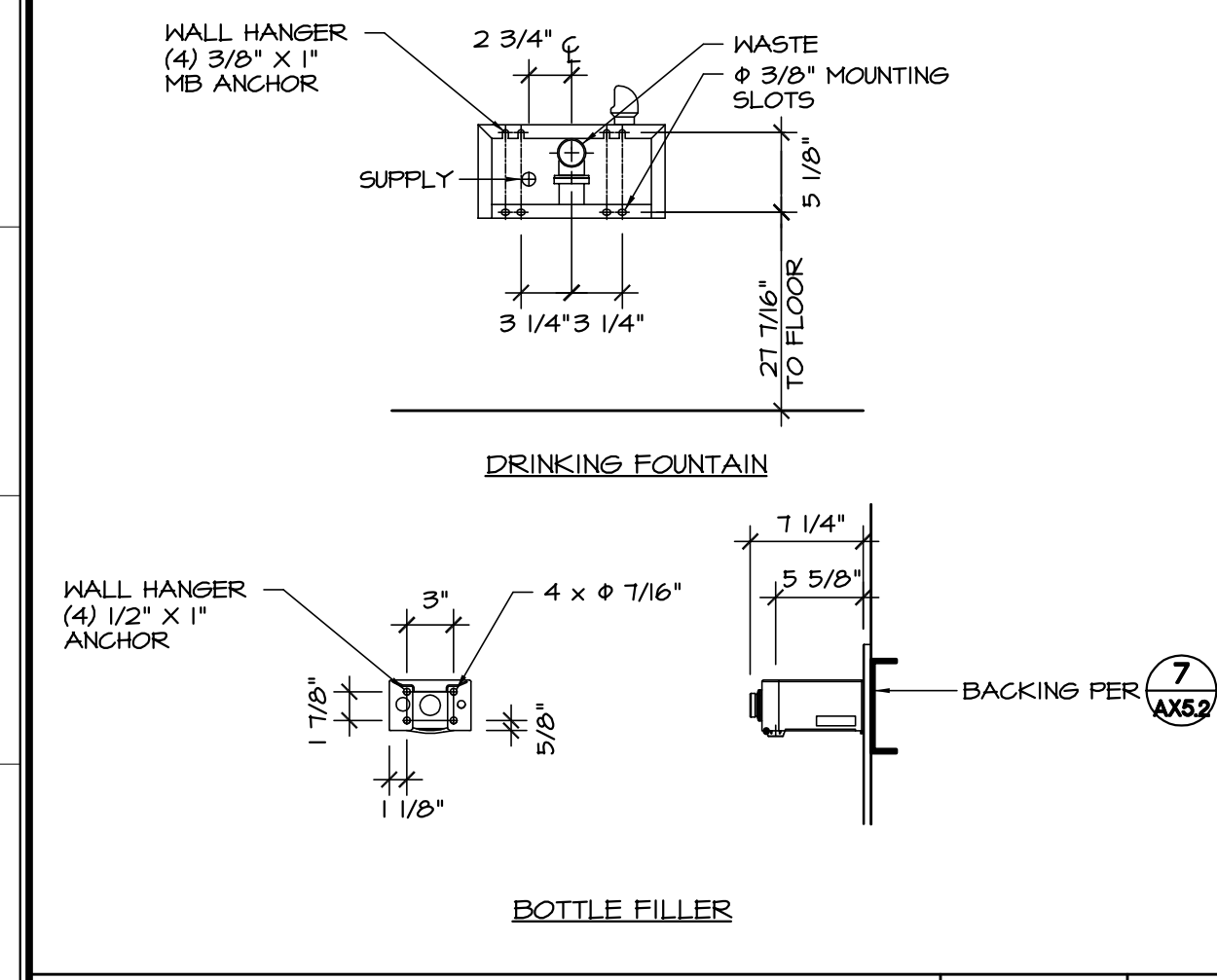
WATER HEATER PIPING DIAGRAM SCALE: NTS 5



INDIRECT DRAIN DETAIL SCALE: NTS 8

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DRINKING FOUNTAIN MOUNTING DETAILS SCALE: NTS 11

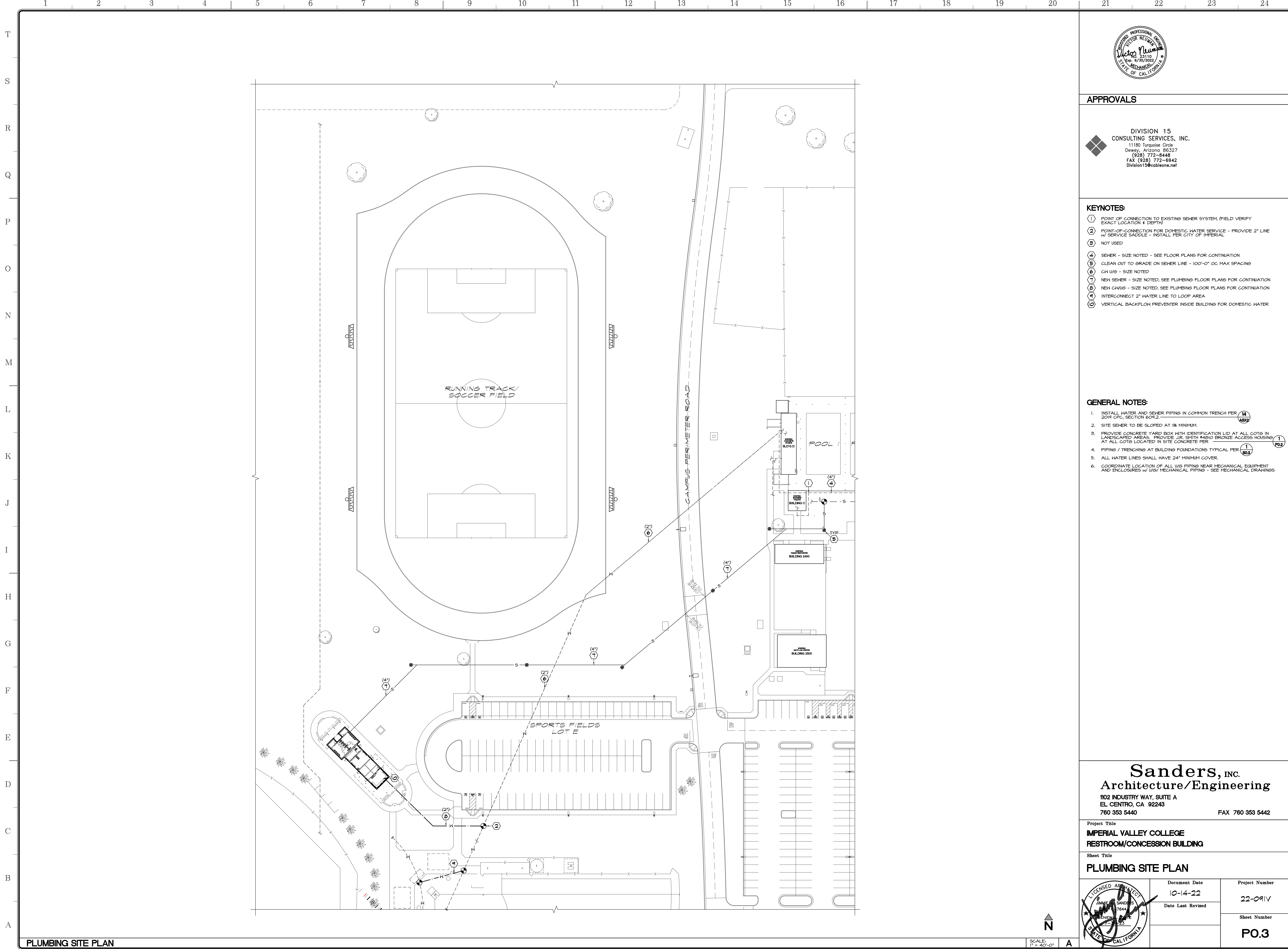
NOTES:
 1. OSHPD PRE-APPROVAL OPM-0043-13 APPLICABLE DETAILS:
 PIPING SHEETS A13.0, A14.0
 HANGER ATTACHMENT SHEETS M5.10, M5.11, M5.13, M5.14, M5.15, M5.10, M7.10, M7.11, M7.12
 SEISMIC ATTACHMENT SHEETS A15.2, A15.4, A18.0, A18.1, A18.0, C2.10, N3.11, N3.12, N3.15, N5.10, N6.11
 P1.0, X1.0 - X1.01

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Project Title
**IMPERIAL VALLEY COLLEGE
 RESTROOM/ CONCESSION BUILDING**

Sheet Title
PLUMBING DETAILS

	Document Date 04-01-22	Project Number 22-091V
	Date Last Revised	Sheet Number P0.2



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KEYNOTES:

- ① POINT OF CONNECTION TO EXISTING SEWER SYSTEM, (FIELD VERIFY EXACT LOCATION & DEPTH)
- ② POINT-OF-CONNECTION FOR DOMESTIC WATER SERVICE - PROVIDE 2" LINE w/ SERVICE SADDLE - INSTALL PER CITY OF IMPERIAL
- ③ NOT USED
- ④ SEWER - SIZE NOTED - SEE FLOOR PLANS FOR CONTINUATION
- ⑤ CLEAN OUT TO GRADE ON SEWER LINE - 100'-0" OC MAX SPACING
- ⑥ CH U/S - SIZE NOTED
- ⑦ NEW SEWER - SIZE NOTED, SEE PLUMBING FLOOR PLANS FOR CONTINUATION
- ⑧ NEW CH U/S - SIZE NOTED, SEE PLUMBING FLOOR PLANS FOR CONTINUATION
- ⑨ INTERCONNECT 2" WATER LINE TO LOOP AREA
- ⑩ VERTICAL BACKFLOW PREVENTER INSIDE BUILDING FOR DOMESTIC WATER

GENERAL NOTES:

- 1. INSTALL WATER AND SEWER PIPING IN COMMON TRENCH PER 14 USC 2014 CFC, SECTION 609.2.
- 2. SITE SEWER TO BE SLOPED AT 1% MINIMUM.
- 3. PROVIDE CONCRETE YARD BOX WITH IDENTIFICATION LID AT ALL COTG IN LANDSCAPED AREAS. PROVIDE J.R. SMITH #4810 BRONZE ACCESS HOUSING AT ALL COTG LOCATED IN SITE CONCRETE PER 1 PO2
- 4. PIPING / TRENCHING AT BUILDING FOUNDATIONS TYPICAL PER 1 803
- 5. ALL WATER LINES SHALL HAVE 24" MINIMUM COVER.
- 6. COORDINATE LOCATION OF ALL U/S PIPING NEAR MECHANICAL EQUIPMENT AND ENCLOSURES w/ U/S/ MECHANICAL PIPING - SEE MECHANICAL DRAWINGS

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Project Title
**IMPERIAL VALLEY COLLEGE
RESTROOM/CONCESSION BUILDING**

Sheet Title
PLUMBING SITE PLAN

	Document Date 10-14-22	Project Number 22-091V
	Date Last Revised	Sheet Number PO.3

PLUMBING SITE PLAN

SCALE: 1" = 40'-0" A

WASTE AND VENT KEYNOTES:

- (1) S OR W US (SIZE NOTED) - SEE PLUMBING SITE PLAN FOR CONTINUATION
- (2) S OR W BF - SLOPE 1/4" PER FT MIN - SIZE NOTED
- (3) 3" (NO) VENT THROUGH ROOF - MAINTAIN MIN 10'-0" CLEAR TO HVAC UNIT OR A INTAKE
- (4) FLOOR SINK WITH INDIRECT WASTE FROM P-22 (3 COMP SINK)
- (5) 2" WASTE TO DRINKING FOUNTAIN
- (6) 2" VENT FROM B/GS 4UP THROUGH ROOF
- (7) PROVIDE URINALS WITH A WALL CLEANOUT ABOVE THE FIXTURE

NOTES:

- 1. FOR ALL PENETRATIONS THRU MASONRY - SLEEVE THRU WALL & SEAL ANNULAR SPACE W/ U.L. LISTED FIRESTOP SEALANT PER ARCHITECTURAL DRAWINGS
- 2. PROVIDE FIRESTOP SEALANT PER ARCHITECTURAL DRAWINGS FOR ALL THRU PENETRATIONS OF FIRE RATED STUD WALLS
- 3. ALL SEWER AND WASTE PIPING SHALL SLOPE @ 1/4" PER FOOT MIN.
- 4. PROVIDE PROTECTION FOR ALL PENETRATIONS INTO NON-COMBUSTIBLE COMPARTMENTS ABOVE CEILING PER G-10.1

HOT AND COLD WATER KEYNOTES:

- (1) CW (SIZE NOTED) - SEE PLUMBING SITE PLAN FOR CONTINUATION
- (2) SOV (BALL TYPE) IN YARD BOX WITH COVER MARKED "WATER"
- (3) CW UP IN WALL W/ SOV AND AP AT +48" AFF - SIZE NOTED
- (4) TRAP PRIMER W/ AP - ROUTE 1/2" SOFT COPPER CW B/F TO FLOOR DRAIN INLET (NO JOINTS B/F)
- (5) CW IN WALL/FURRING - SIZE NOTED
- (6) CW BELOW CEILING - SIZE NOTED
- (7) CW UP TO BELOW CEILING - SIZE NOTED
- (8) INSULATED HW BELOW CEILING - SIZE NOTED
- (9) CW HEADER IN WALL - SIZE NOTED
- (10) 1 1/4" CW - (TYP @ WATER CLOSETS AND URINALS)
- (11) 1/2" CW - (TYP @ LAVATORIES)
- (12) 3/4" CW & HW - (TYP @ MOP BASINS AND SINKS) - UNLESS NOTED OTHERWISE
- (13) 1" CW AND 1/2" HW TO WATER HEATER AND 1" HW FROM WATER HEATER TO ABOVE CEILING PROVIDE 3" CW AND HW TO MOP SINK
- (14) 3/4" CW TO HOSE BIBB
- (15) 2" CW DOWN IN WALL WITH S.D.V., RHA AND ACCESS PANEL
- (16) 3/4" CW UP IN WALL TO HOSE BIBB ABOVE ROOF - SEE PLUMBING ROOF PLAN FOR CONTINUATION
- (17) 1/2" CW UP TO P-14 CHILLER ON ROOF - 1/2" INSULATED CW FROM CHILLER TO (3) P-14

NOTES:

- 1. FOR ALL PENETRATIONS THRU MASONRY - SLEEVE THRU WALL & SEAL ANNULAR SPACE W/ NON-HARDENING SEALANT PER ARCHITECTURAL DRAWINGS
- 2. PROVIDE FIRESTOP SEALANT PER ARCHITECTURAL DRAWINGS FOR ALL THRU PENETRATIONS OF FIRE RATED STUD WALLS

PLUMBING ROOF PLAN KEYNOTES:

- (1) MECHANICAL UNIT ON ROOF PER MECHANICAL DRAWINGS
- (2) PROVIDE 3/4" TRAPPED & VENTED CD CONNECTION TO MECHANICAL UNIT
- (3) ROUTE 3/4" CD DOWN THRU ROOF FLASHING - SEAL SPACE BETWEEN PIPE & FLASHING W/ NON-HARDENING WATERPROOF SEALANT
- (4) 3/4" (NO) CD IN TRUSS/JOIST SPACE
- (5) CD DOWN IN WALL - DISCHARGE TO SINK TRAP OR MOP BASIN W/ AIR GAP
- (6) ROOF DRAIN DOWN IN WALL FURRING - DISCHARGE TO EXTERIOR GRADE
- (7) OVERFLOW DRAIN STRAIGHT THROUGH WALL
- (8) 3/4" CW UP FROM BELOW ROOF TO P-18 ABOVE ROOF - SEE HOT AND COLD WATER PLAN FOR CONTINUATION

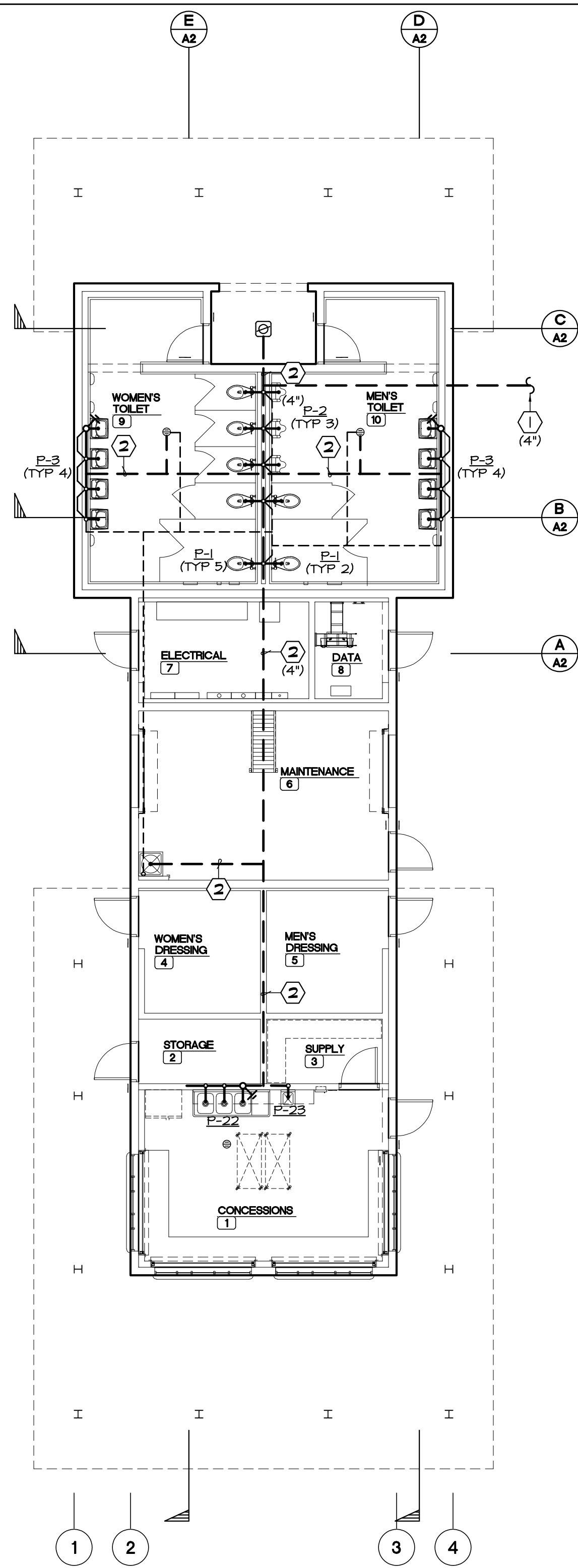
NOTES:

- 1. FOR ALL PENETRATIONS THRU MASONRY - SLEEVE THRU WALL & SEAL ANNULAR SPACE W/ NON-HARDENING SEALANT PER ARCHITECTURAL DRAWINGS
- 2. ALL CONDENSATE DRAINS SHALL BE INSULATED AND SLOPE @ 1/8" PER FOOT MIN.
- 3. ALL ROOF/OVERFLOW DRAINS SHALL SLOPE @ 1/8" PER FOOT MIN.



APPROVALS

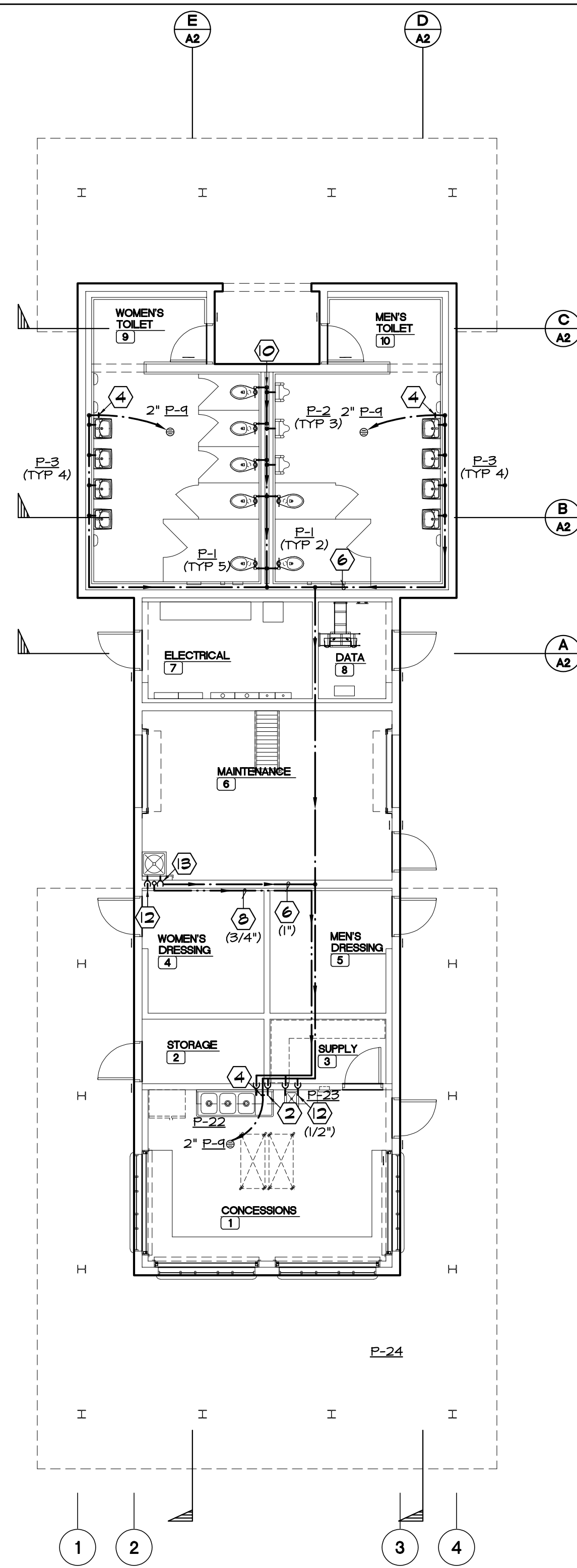
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WASTE AND VENT

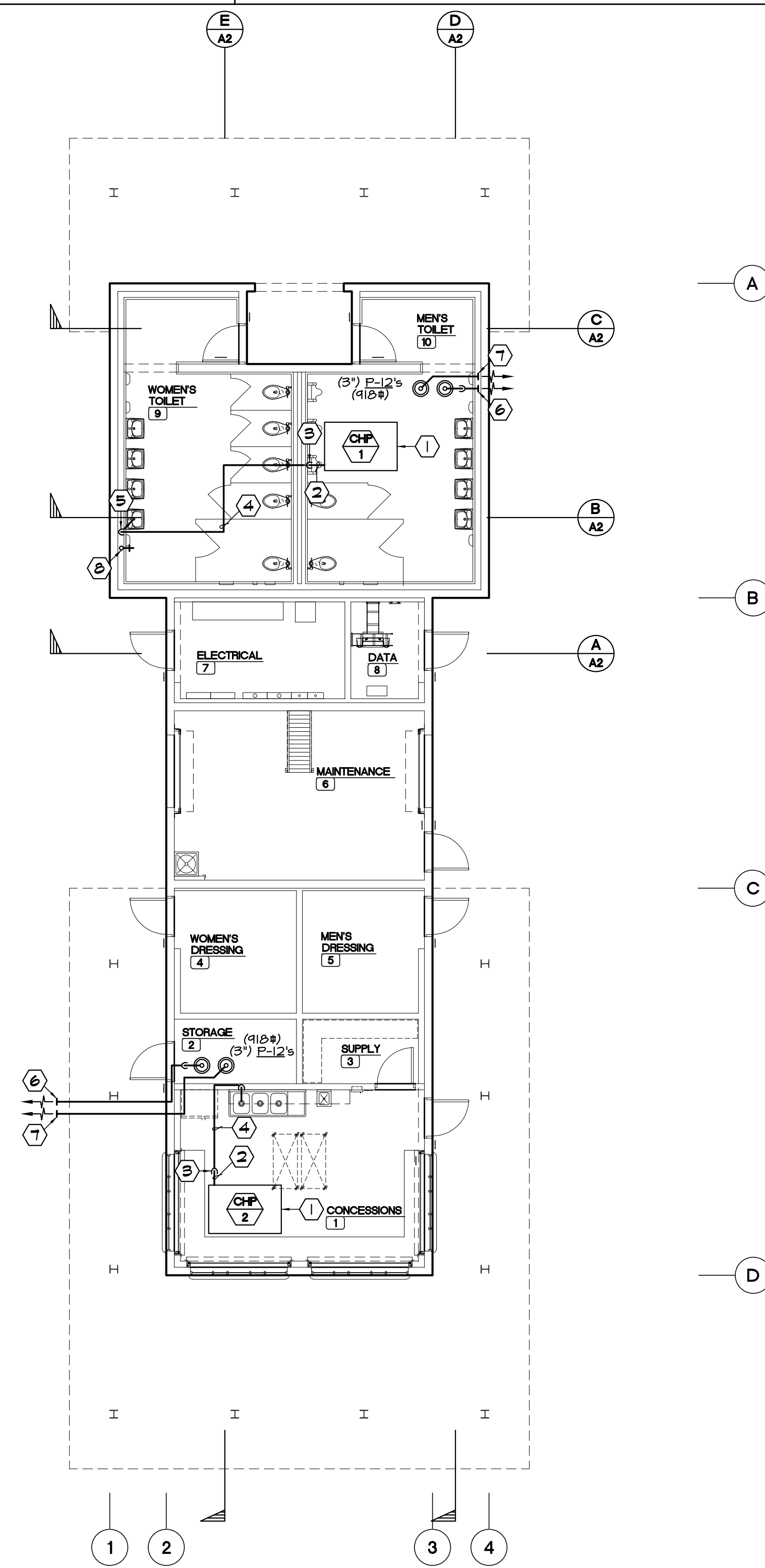
SCALE: 1/8" = 1'-0"

HOT AND COLD WATER



SCALE: 1/8" = 1'-0"

PLUMBING ROOF PLAN



SCALE: 1/8" = 1'-0"

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Project Title
IMPERIAL VALLEY COLLEGE RESTROOM/ CONCESSION BUILDING

Sheet Title
PLUMBING PLANS

	Document Date	Project Number
	Date Last Revised	Sheet Number
	10-14-22	22-091V
		P1

EXHAUST FAN

MARK	LOCATION	SERVES	FAN MOTOR HP	FAN MOTOR WATTS	CFM	EFT SP (IN WG)	RPM	SONES	ELECTRICAL V/PH/Hz	OPER WEIGHT (LBS)	MANUFACTURER / MODEL NO	NOTES
EF 1A	ROOF	WOMEN'S TOILET	1/4	N/A	350	0.125	900	3.8	120-1-60	5.8	GREENHECK GB-081-4	1-3
EF B	ROOF	MEN'S TOILET	1/4	N/A	350	0.125	900	3.8	120-1-60	5.8	GREENHECK GB-081-4	1-3
EF 2	CEILING	MAINTENANCE	N/A	48	220	0.125	N/A	2.4	120-1-60	24	GREENHECK SPA 200	4


EXHAUST FAN NOTES:

- PROVIDE BACKDRAFT DAMPER (BDD), BIRD SCREEN, DISC SWITCH MOUNTED.
- PROVIDE MANUFACTURER'S SOUND ABSORBING ROOF CURB.
- CONTROL FOR CONTINUOUS OPERATION WHEN HP-1 SUPPLY FAN IS OPERATING (BY ELEC CONTRACTOR).
- CONTROL WITH WALL SWITCH (BY ELEC CONTRACTOR).

PACKAGE ROOFTOP HP

MARK	MANUFACTURER / MODEL NO	NOM TONS	CFM	EXTERNAL S P (IN W G)	ELECTRICAL		EVP/ BHP	COOLING (MBH)		SEER	HEAT CAP (MPH)	COP OR (HSPF)	OPER WEIGHT (LBS)	CURB WEIGHT (LBS)	NOTES
					MIN CKT AMPS	MOCP		V/PH/Hz	TOT						
HP 1	YORK #XN048C00	4	1600	1.5	11.3	15	460/3/60	1.12	40.0	31.7	14.0	44	3.2	626	1-4
HP 2	YORK # FHE4A2424	2	800	0.5	18.6	25	208/1/60	0.5	23.8	18.0	14.0	24.6	8.0	330	1-3, 5-7, 9
HP 3	YORK # XN036600	3	1200	1.2	9.6	15	460/3/60	1.0	31.8	26.9	14.0	36	3.35	620	1-4

PACKAGE ROOFTOP HP UNIT NOTES:

- PROVIDE "STERIL-AIRE" UV-C LAMP (NO SUBSTITUTIONS).
- PROVIDE UNIT W/AN R-6-Y-W-C, ETC TERMINAL STRIP CONNECTION FOR DDG.
- 2" MERV 8 T.A. FILTERS.
- DRY-BULB ECONOMIZER.
- PROVIDE PRO-VENT SEISMIC 14" HIGH ROOF CURB (LEVEL). 
- LOW AMBIENT OPERATION.
- NOT USED.
- HIGH STATIC OPTION BELT DRIVE.
- SEE PLANS FOR ALL OSA CFM.





















MINI-SPLIT AC SYSTEM

UNIT NO.	FAN DATA			ELECTRICAL DATA VOLTS/PH/MCA/MOCP	OPER WEIGHT (LBS)	MANUFACTURER + MODEL NO.	NOTES	
	CFM	ESP (IN WG)	BTUH					
MS 1 (OUTDOOR)	-	-	36,000	208/1	26.0/30	170	-	5
MS 1 (INDOOR)	583	0.1"	19,000	208/1	0.12 FLA	25.4	SAMSUNG #ARI8B5FC	1-4, 6

NOTES:

- WALL MOUNTED, (HIGH)
- WALL MOUNTED T-STAT
- CONDENSATE PIP ACCESSORY. (FC MOUNTED)
- POKERED FROM OUTDOOR UNIT.
- MOUNT ON OUTDOOR ROOF PLATFORM ON 1" THICK NEOPRENE WAFFLE PADS W/ NEOPRENE BUSHINGS.
- 2 - REQUIRED

HVAC LEGEND

ABBR.	SYMBOL	DESCRIPTION
A/C		ABOVE CEILING
U.T.R.		UP THROUGH ROOF
S.A.		SUPPLY DUCT, SECTION
R.A.		RETURN DUCT, SECTION
E.A.		EXHAUST DUCT, SECTION
		FLEXIBLE DUCT
S.A./R.A.		SINGLE LINE DUCT WORK
M.V.D.		MANUAL VOLUME DAMPER
C.D.		CEILING DIFFUSER - SUPPLY
R.A.G.		RETURN AIR GRILLE - CEILING
E.G.		EXHAUST REGISTER - CEILING
F.C.		FLEX CONNECTION
D.L.		DOOR LOUVER
U.C.		UNDER-CUT DOOR
STAT		THERMOSTAT - SEE 11/MO.3
C.D.		CONDENSATE DRAIN (BY PLUMBING)
SENSOR		ROOM TEMPERATURE SENSOR
F.S.D.		FIRE/ SMOKE DAMPER
M.O.D.		MOTOR OPERATED DAMPER
H/W/S/R		HEATING HOT WATER SUPPLY/RETURN
C/W/S/R		CHILLED WATER SUPPLY/RETURN
U.O.N.		UNLESS OTHERWISE NOTED
		FIRE RATED WALL - SEE ARCH

DESIGN CRITERIA:

- MECHANICAL ANCHORAGE NOTE**
- 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 OF DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.10 THROUGH 1616A.1.26 AND ASCE T-10 CHAPTER 13, 26 & 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 ELECTRIGITY, GAS OR WATER.
 - MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

- 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 COMPONENT 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 DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

- PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE T-10 SECTION 13.3 AS DEFINED IN ASCE T-10 SECTION 13.6.6, 13.6.7, 13.6.8 AND 2016 CBC, SECTIONS 1616A.1.24, 1616A.1.25 AND 1616A.1.26.
- THE METHOD OF SHOWING BRACINGS AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G. SHACNA OR OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEM. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

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

MP MD PP E - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.


MP MD PP E - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #GEM-0243-13

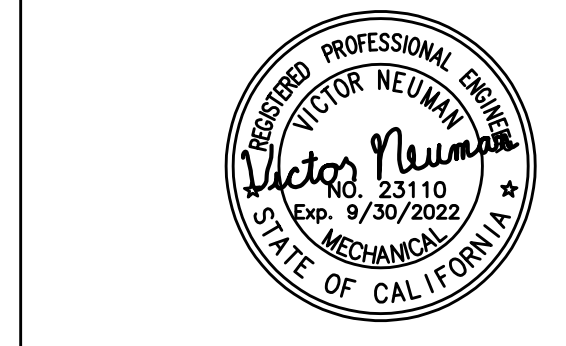
MP MD PP E - OPTION 3: SHALL COMPLY WITH THE SHACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2004), INCLUDING ANY ADDENDA, FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SHACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL AND CONNECTION LEVEL FOR THE PROJECT AND CONDITIONS.

ENERGY CONSERVATION NOTES:

- ALL PIPING AND DUCTWORK SHALL BE INSULATED CONSISTENT WITH THE REQUIREMENTS OF SECTIONS 118, 123, 124 E.E.S. AND TABLE 6-4 OF THE C.M.C.
- ALL HVAC SYSTEMS SHALL MEET THE CONTROL REQUIREMENTS PER SECTION 112.4 122 E.E.S.
- ALL HVAC EQUIPMENT AND APPLIANCES SHALL MEET THE REQUIREMENTS OF SECTION 111.15, 15, 120-124 E.E.S.

GENERAL HVAC NOTES:

- THESE DRAWINGS ARE A DIAGRAMMATIC REPRESENTATION OF WORK TO BE ACCOMPLISHED AND AS SUCH ARE NOT INTENDED TO SHOW ALL REQUIRED OFFSETS OF PIPING AND DUCT WORK. THE MECHANICAL CONTRACTOR SHALL INSTALL MATERIAL AND EQUIPMENT SO AS TO CONFORM TO THE STRUCTURE, AVOID OBSTRUCTIONS AND MAINTAIN HEADROOM AND PASSAGEWAYS.
- EQUIPMENT INDICATED ON THESE DRAWINGS IS SHOWN IN APPROXIMATE LOCATIONS. THE MECHANICAL CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND EQUIPMENT LOCATIONS.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES PRIOR TO INSTALLATION.
- ALL WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH ALL APPLICABLE CODES INCLUDING TITLE 24 CCR.
- ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL LINE AND LOW VOLTAGE CONDUIT, LINE VOLTAGE WIRING, OVERLOAD PROTECTION, DISCONNECTS (EXCEPT ROOF EXHAUST FANS AS NOTED), STARTERS, FINAL CONNECTIONS TO EQUIPMENT. LOW VOLTAGE WIRING BY MECHANICAL CONTRACTOR.
- GENERAL CONTRACTOR SHALL PROVIDE ALL CUTTING, PATCHING, FURRING, BRACING OF STRUCTURE, ROOF OPENINGS WITH GANTS, FLASHING, ROOFING.
- MECHANICAL CONTRACTOR TO FURNISH AND INSTALL FIRE AND SMOKE DAMPERS AT ALL DUCT PENETRATIONS OF FIRE RATED SURFACES. FIRE DAMPERS INCLUDING SLEEVES AND INSTALLATION PROCEDURES SHALL BE APPROVED BY D.S.A. PRIOR TO INSTALLATION.
- SUSPENSION AND RESTRAINT OF DUCTING SHALL MEET THE PROVISIONS OF SEISMIC RESTRAINT MANUAL.
- SEISMIC RESTRAINT MANUAL GUIDELINES FOR MECHANICAL SYSTEMS LATEST EDITION PUBLISHED BY SHACNA: OSHPD #R02010
- AIR FILTERS SHALL BE A STATE FIRE MARSHAL APPROVED # LISTED TYPE. PRE FORMED FILTERS HAVING A COMBUSTIBLE FRAMING SHALL BE TESTED AS A COMPLETE ASSEMBLY. AIR FILTERS IN ALL OCCUPANCIES SHALL BE CLASS 2 OR BETTER (AS SHOWN THE STATE FIRE MARSHAL LISTINGS). AIR FILTERS SHALL BE ACCESSIBLE FOR CLEANING OR REPLACEMENT.
- FLAME SPREAD / SMOKE RATINGS FOR ALL DUCT MATERIALS SHALL BE 25/50 MAX.
- FOR ALL THROUGH-PENETRATION FIRESTOP DETAILS SEE SHEET 



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AIR DISTRIBUTION SCHEDULE:

ALL ITEMS SHALL BE TITUS MODEL #5 UNLESS OTHERWISE NOTED OR EQUIVALENT BY PRICE. ALL METAL CONSTRUCTION WITH STANDARD FINISH.

MARK	DESCRIPTION
A	#359RL, STEEL, SIDEWALL, DOUBLE DEFLECTION, S.A. GRILLE WITH O.B.D.
B	#350RL, 35" DEFLECTION, STEEL RETURN GRILLE WITH O.B.D.
C	#350RL, 35" DEFLECTION, STEEL CEILING EXHAUST GRILLE

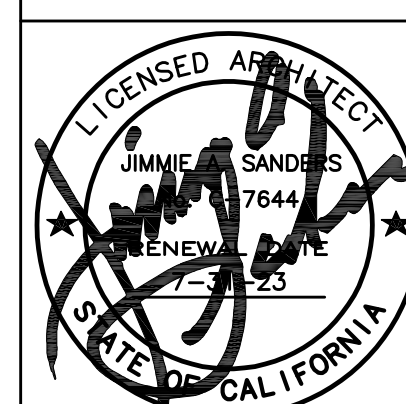
EQUIPMENT SCHEDULE NOTES:

- NOTES:
- BOTTOM OF ALL EQUIPMENT ROOF CURBS SHALL MATCH SLOPE OF ROOF, TYP.
 - "UV-C" GEOMETRIDAL LAMPS SHALL BE FACTORY INSTALLED AND WIRED. LAMPS SHALL BE "STERIL-AIRE" (NO SUBSTITUTIONS).
 - ALL HVAC UNITS AND SINGLE SPACES OVER 2,000 CFM SHALL BE PROVIDED WITH DUCT SMOKE DETECTORS. SEE FIRE ALARM DRAWINGS.

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Project Title
IMPERIAL VALLEY COLLEGE
RESTROOM/CONCESSION BUILDING

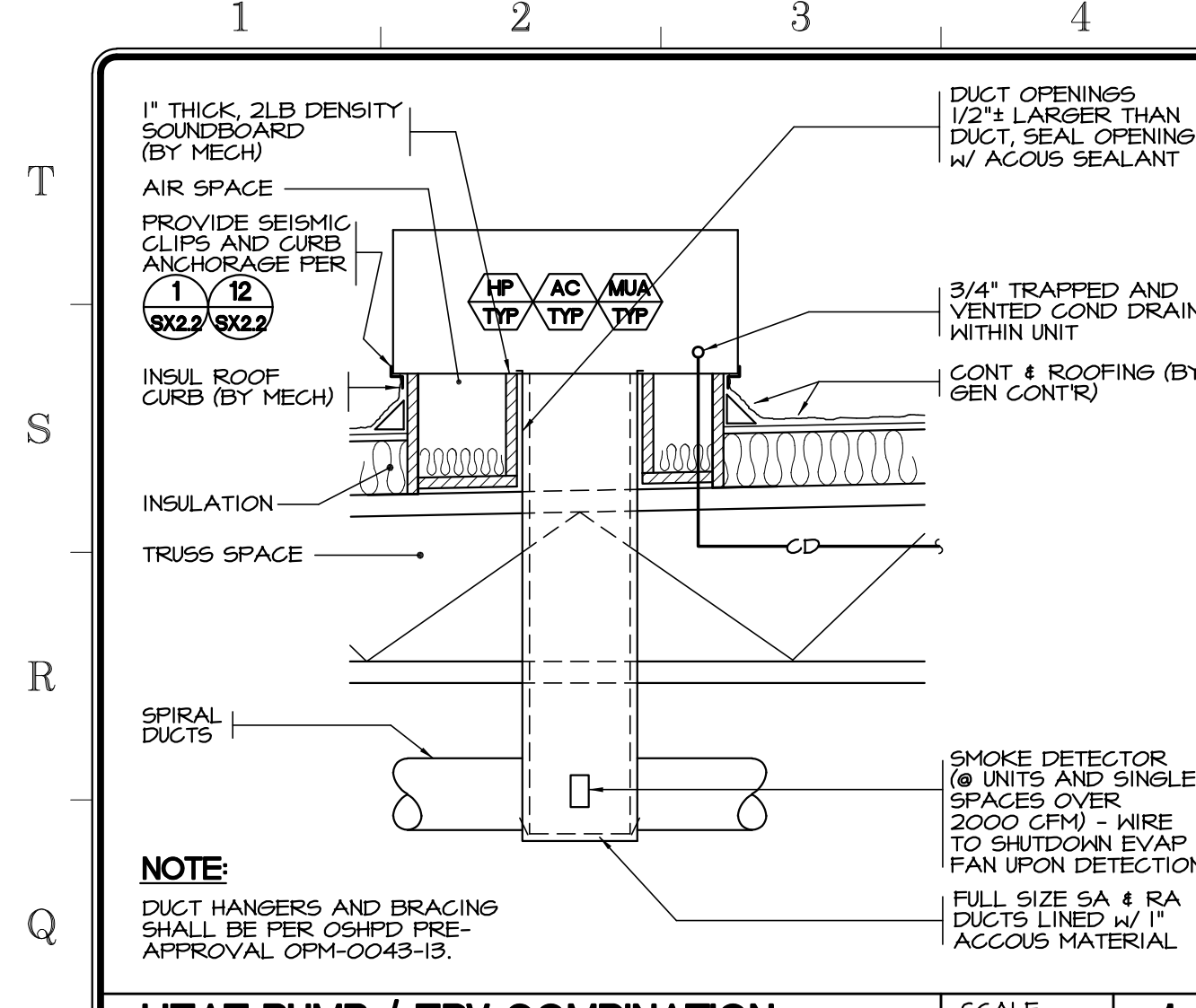
Sheet Title
HVAC GENERAL NOTES, SCHEDULES

	Document Date 10-14-22	Project Number 22-091V
	Date Last Revised	Sheet Number MO.1

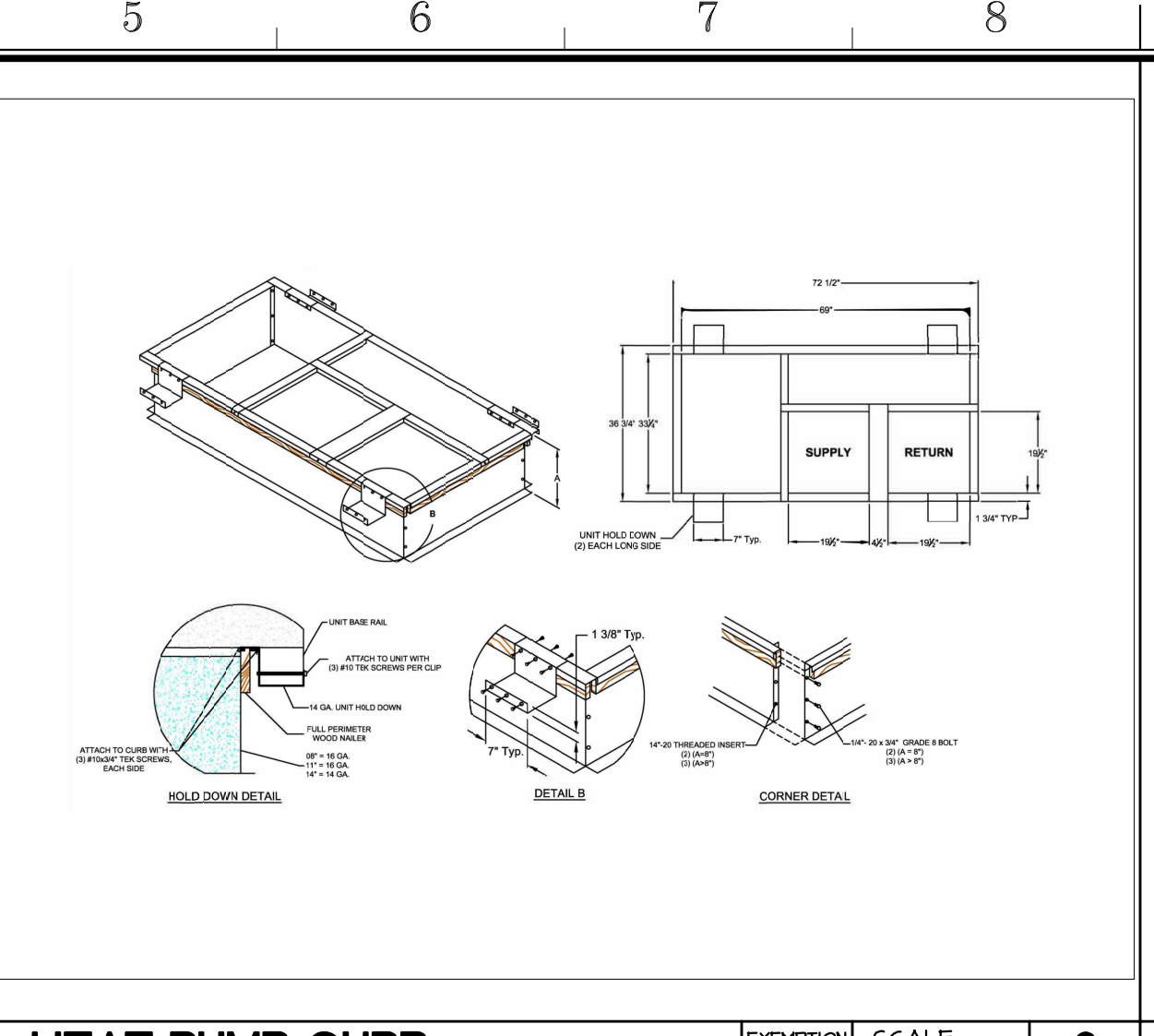
SCHEDULES

SCALE: N.T.S.

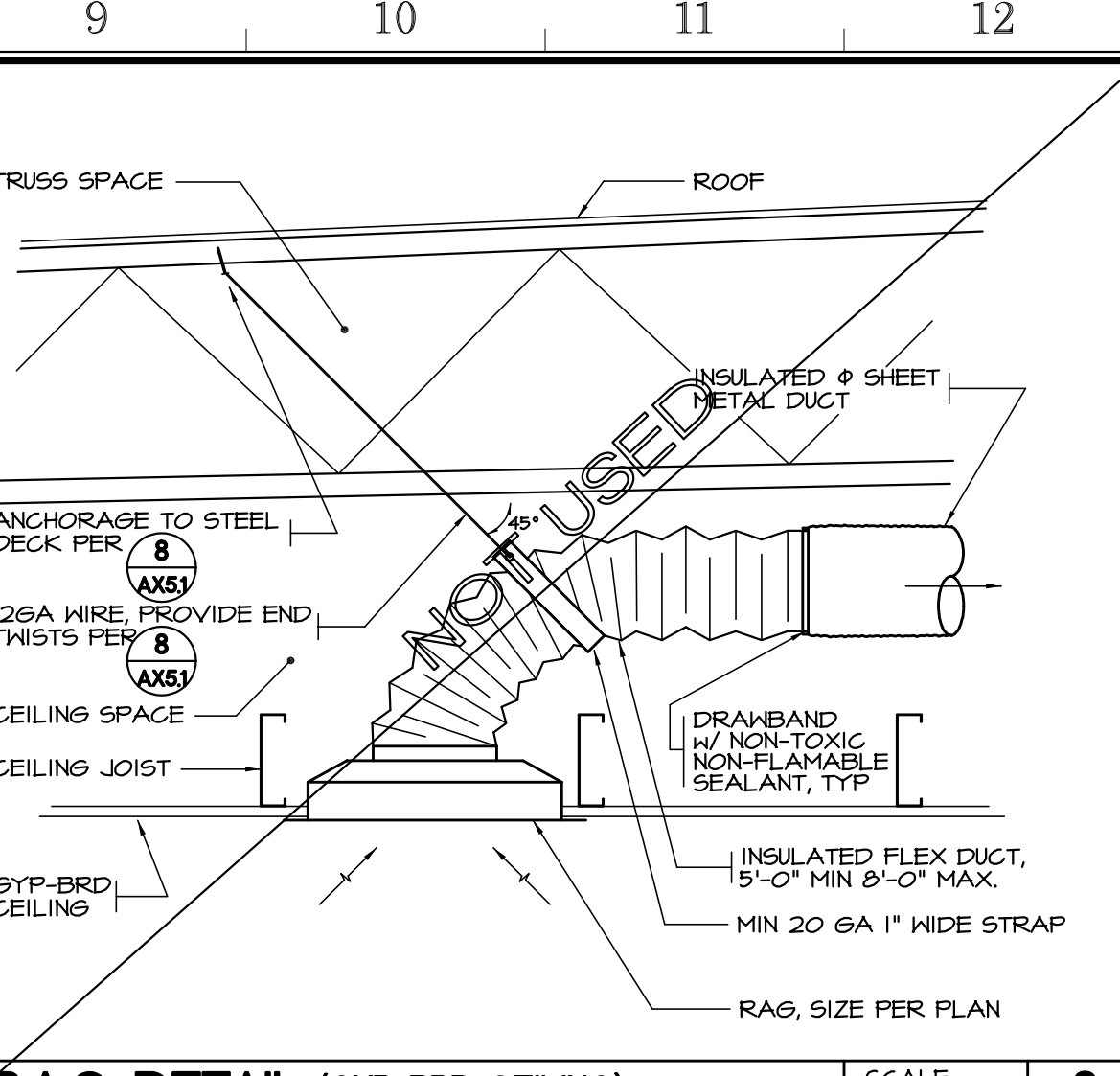
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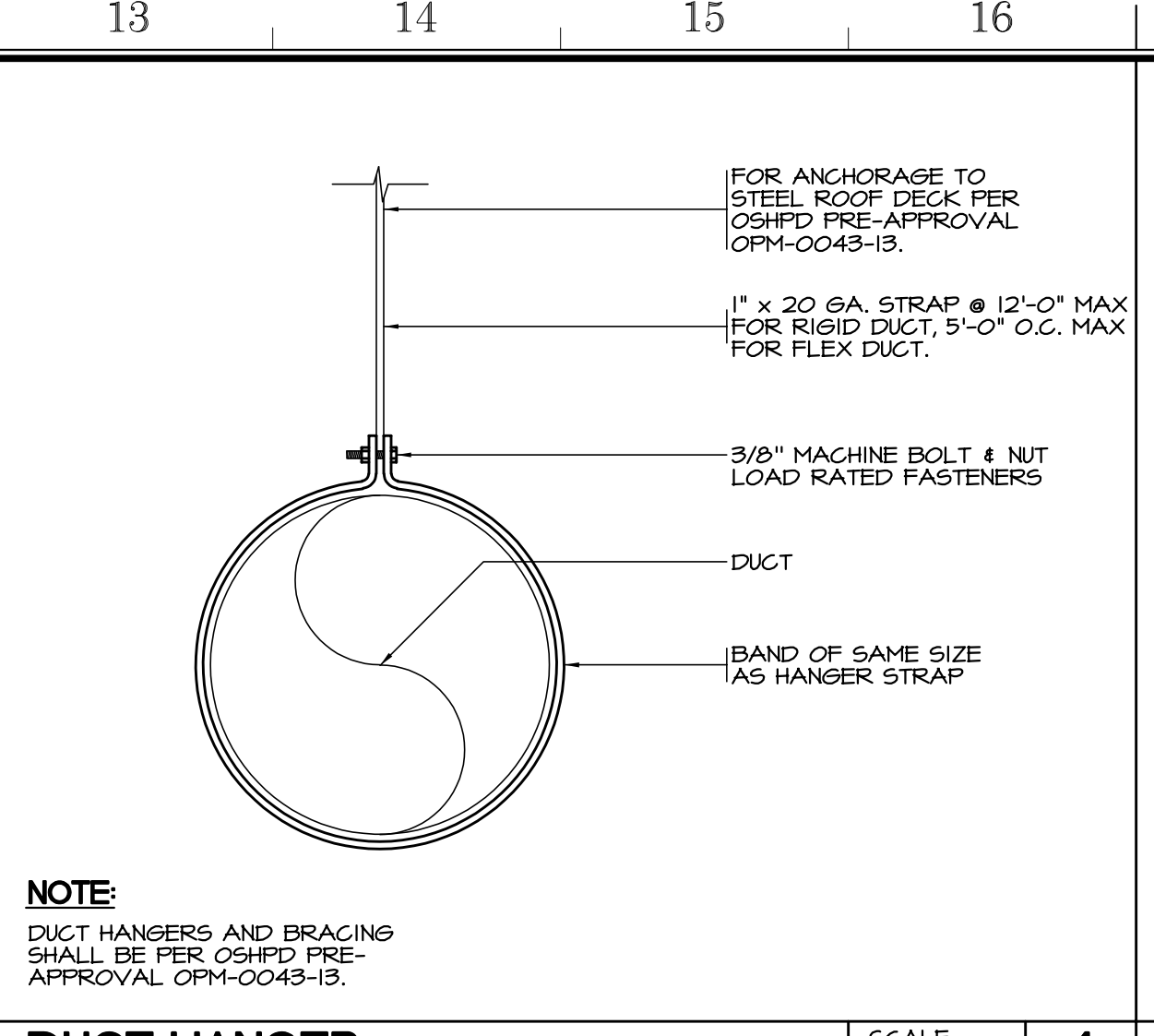
HEAT PUMP / ERV COMBINATION SCALE: N.T.S. 1



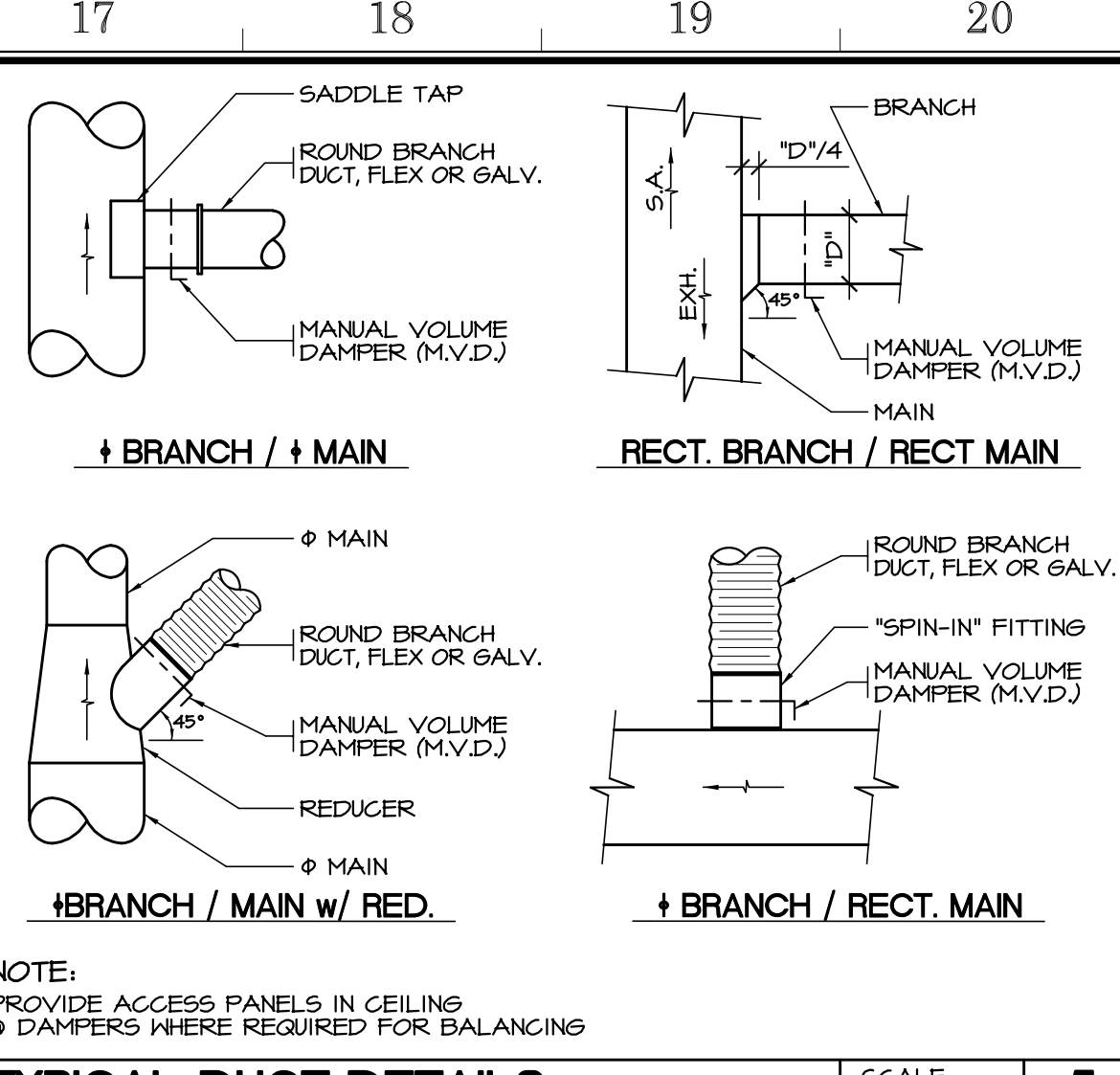
HEAT PUMP CURB EXEMPTION W4 SCALE: N.T.S. 2



R.A.G. DETAIL (GYP-BRD CEILING) SCALE: N.T.S. 3



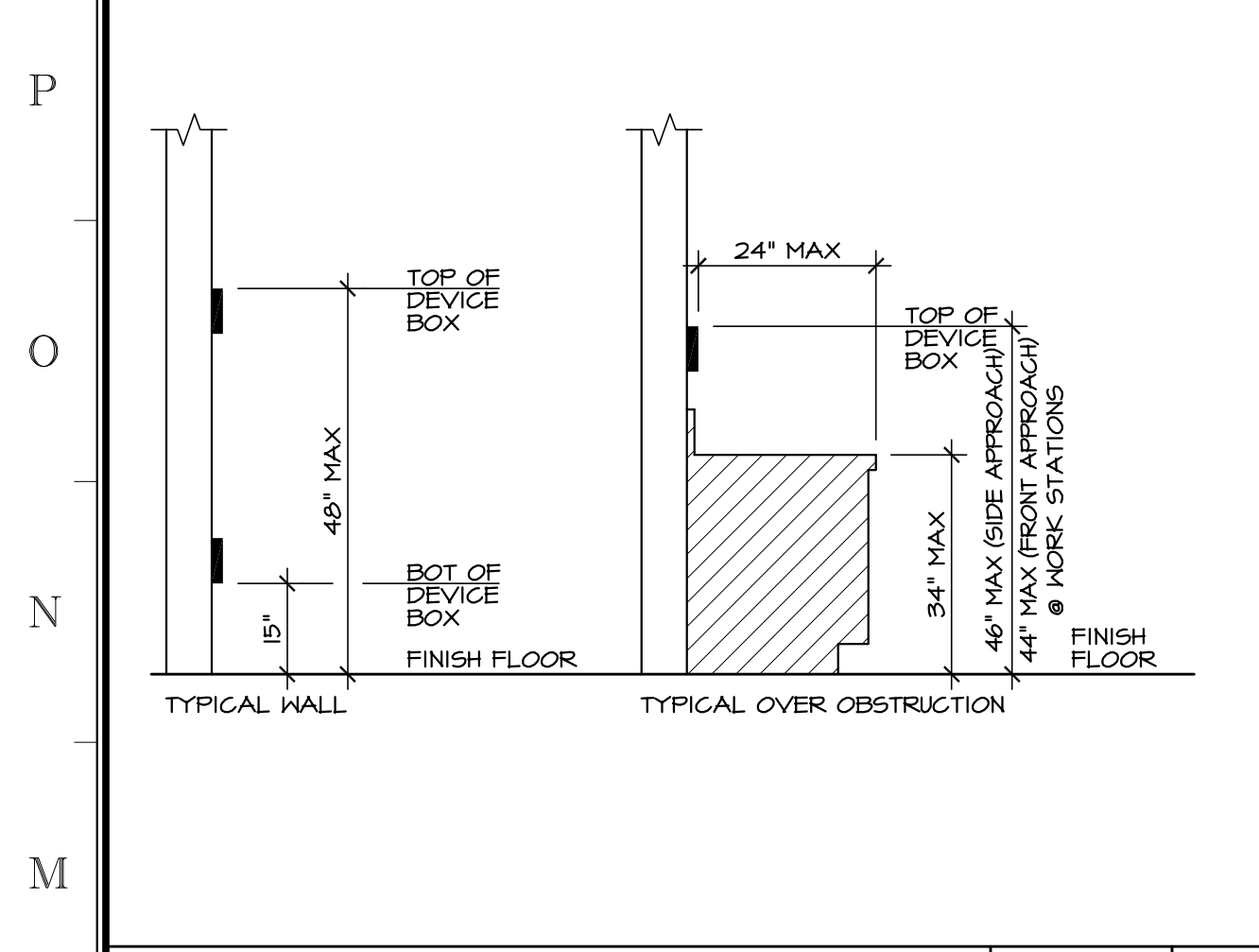
DUCT HANGER SCALE: N.T.S. 4



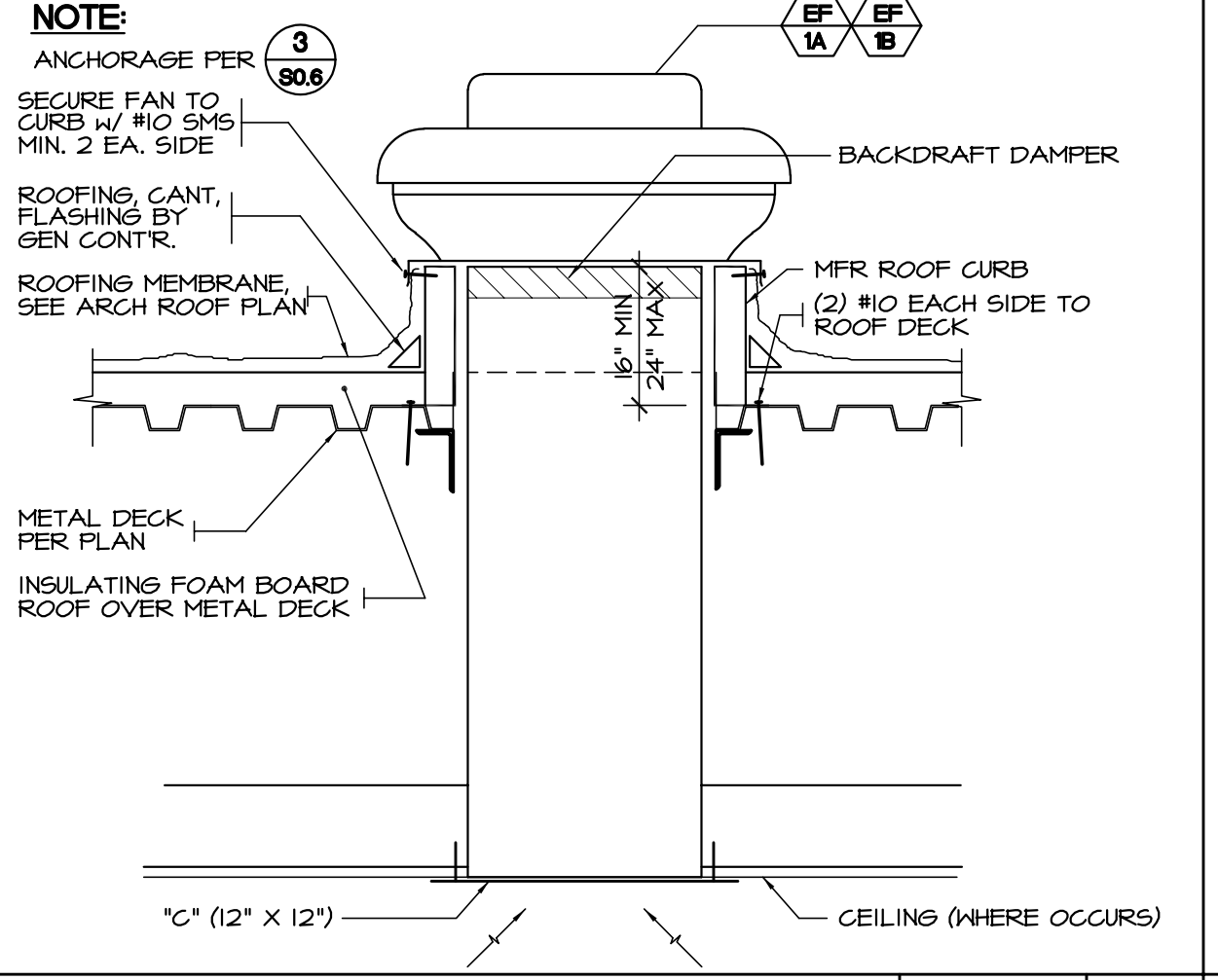
TYPICAL DUCT DETAILS SCALE: N.T.S. 5

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TYPICAL MOUNTING HEIGHTS SCALE: N.T.S. 6



ROOF EXHAUSTER DETAIL SCALE: N.T.S. 7

NOTES:

- OSHPD PRE-APPROVAL OPM-0043-13 APPLICABLE DETAILS:
 - DUCTWORK SHEETS A4.0, A5.0
 - HANGER ATTACHMENT SHEETS M3.0, M3.1, M3.14, M3.15, M5.10, M7.10, M7.11, M10.12
 - SEISMIC ATTACHMENT SHEETS NB.11, NB.12, NB.15, NB.16, N6.11, P1.10, X1.0 - X9.04

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Project Title
**IMPERIAL VALLEY COLLEGE
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Sheet Title
HVAC DETAILS

	Document Date 10-14-22	Project Number 22-091V
	Date Last Revised	Sheet Number MO.2



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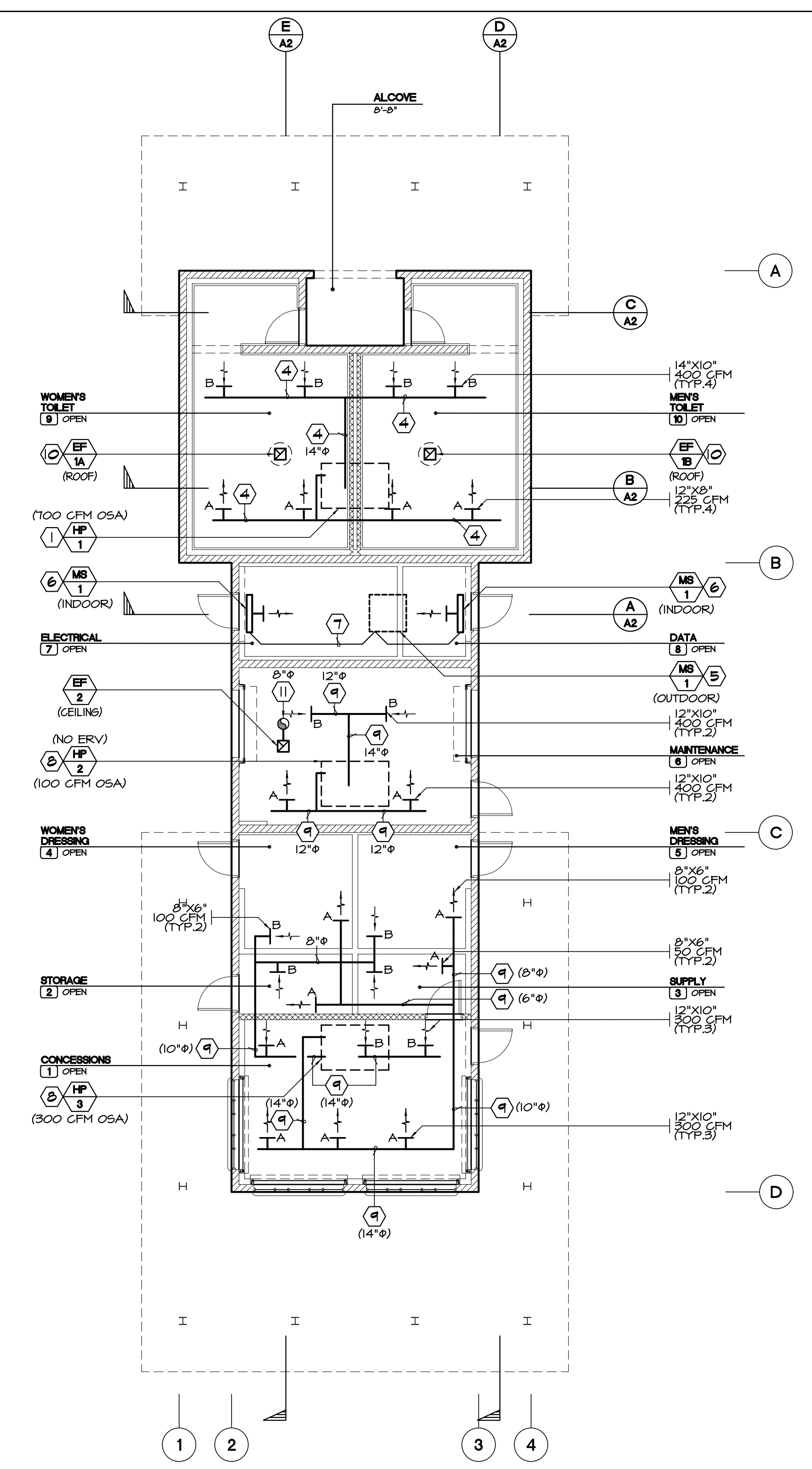
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KEYNOTES:

- ① ROOFTOP HEAT PUMP UNIT ON ROOF WITH FULL SIZE S.A AND R.A DUCT DROPS. (LINED 1" ACOUSTIC)
- ② NOT USED
- ③ NOT USED
- ④ 12" AND NBT-ADD FOR 1" ACOUSTIC LINER
- ⑤ MS-4 OUTDOOR UNIT ON ROOF PLATFORM
- ⑥ INDOOR FAN-COIL UNIT-MOUNT ON WALL ABOVE DOOR. SEE PLUMBING DRAWINGS, FOR CONDENSATE DRAINS.
- ⑦ ROUTE RS AND L REFRIGERANT PIPING FROM OUTDOOR UNIT TO INDOOR UNITS IN CEILING SPACE.
- ⑧ ROOFTOP STANDARD CURB MOUNTED HEAT PUMP UNIT ON ROOF WITH LINED FULL SIZED S.A AND R.A. DUCT DROPS
- ⑨ EXPOSED GALV SPIRAL DUCT LINED 1" ACOUSTIC SIZES NOTED ARE NET-ADD FOR LINER
- ⑩ 12" X 12" EXH DUCT DOWN TO CEILING GRILLE (MARK 'C')
- ⑪ EXHAUST DUCT UTR w/ T-TOP - SIZE NOTED

NOTES:

- 1. SEE SHEET FOR TYPICAL DUCT DETAILS.
- 2. SEE SHEET FOR TYPICAL COMPONENT ANCHORAGE AND BRACING NOTES. HANGERS AND BRACING SHALL BE PER OSHPD PRE-APPROVAL OPM-0043-B.
- 3. UNIT LOCATIONS ARE APPROXIMATE SEE ARCHITECTURAL SHEET FOR EXACT MECH. EQUIPMENT LOCATIONS.
- 4. PROVIDE SMOKE DETECTOR(S) WIRED TO SHUT DOWN A.C. UNIT INDOOR AIR FANS UPON DETECTION - TYPICAL ON ALL UNITS.
- 5. NOT USED.
- 6. FLAME SPREAD RATINGS NOT FOR WALL INSULATION NOT TO EXCEED 25 AND SMOKE DEVELOPED INDEX NOT TO EXCEED 450 WHEN TESTED IN ACCORDANCE WITH ASTM E 84.



HVAC PLAN

SCALE: 1/8" = 1'-0"



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Project Title
IMPERIAL VALLEY COLLEGE
RESTROOM/CONCESSION BUILDING

Sheet Title
HVAC PLAN

	Document Date	Project Number
	Date Last Revised	Sheet Number
	10-14-22	22-091V
		M2.1

Project Name: IVC Restroom/Concessions Building
Project Address: Imperial Valley College Campus Imperial 92251
Input File Name: Restroom-Concessions Title-24.cbd39x
A. GENERAL INFORMATION
1 Project Location (city) Imperial
2 CA Zip Code 92251
3 Climate Zone 15
4 Total Conditioned Floor Area In Scope 1,698 ft²
5 Total Unconditioned Floor Area 0 ft²
6 Total # of Stories (Habitable Above Grade) 1
7 Total # of dwelling units 0
B. PROJECT SUMMARY
Table showing Building Components Complying via Performance and Building Components Complying Prescriptively.

Project Name: IVC Restroom/Concessions Building
Project Address: Imperial Valley College Campus Imperial 92251
Input File Name: Restroom-Concessions Title-24.cbd39x
C1. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TdV Energy Use, kWh/ft²-yr)
Table with columns: Energy Component, Standard Design (TDV), Proposed Design (TDV), Compliance Margin (TDV)
ENERGY STANDARDS COMPLIANCE TOTAL 1,046.67 982.30 64.37 (6.1%)
C2. RESULTS FOR 'ABOVE CODE' QUALIFICATIONS
Table with columns: Equipment Name, Equipment Type, Qty, Total Heating Output (kBtu/h), Supp Heat Output (kBtu/h), Efficiency Unit, Efficiency, Total Cooling Output (kBtu/h), Economizer Type (if present)

Project Name: IVC Restroom/Concessions Building
Project Address: Imperial Valley College Campus Imperial 92251
Input File Name: Restroom-Concessions Title-24.cbd39x
C3. ENERGY USE SUMMARY
Table with columns: Energy Component, Standard Design Site (kBtu/h), Proposed Design Site (kBtu/h), Margin (kBtu/h), Standard Design Site (kBtu/h), Proposed Design Site (kBtu/h), Margin (kBtu/h)
D. EXCEPTIONAL CONDITIONS
E. HERS VERIFICATION
This Section Does Not Apply

Project Name: IVC Restroom/Concessions Building
Project Address: Imperial Valley College Campus Imperial 92251
Input File Name: Restroom-Concessions Title-24.cbd39x
G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)
Table with columns: Surface Name, Surface Type, Area (ft²), Framing Type, Cavity R-Value, Continuous R-Value, Units, Value, Description of Assembly Layers
G3. OPAQUE SURFACE ASSEMBLY SUMMARY
Table with columns: Surface Name, Surface Type, Area (ft²), Framing Type, Cavity R-Value, Continuous R-Value, Units, Value, Description of Assembly Layers

Project Name: IVC Restroom/Concessions Building
Project Address: Imperial Valley College Campus Imperial 92251
Input File Name: Restroom-Concessions Title-24.cbd39x
G4. OPAQUE DOOR SUMMARY
Table with columns: Assembly Name, Overall U-factor, Status
G5. FENESTRATION ASSEMBLY SUMMARY
Table with columns: Fenestration Assembly Name / Tag or I.D., Fenestration Type / Product Type / Frame Type, Certification Method, Assembly Method, Area (ft²), Overall U-factor, Overall SHGC, Overall VT, Overall ETC
H1. DRY SYSTEM EQUIPMENT (furnaces, air handling units, heat pumps, VRF, economizers etc.)
Table with columns: Equipment Name, Equipment Type, Qty, Total Heating Output (kBtu/h), Supp Heat Output (kBtu/h), Efficiency Unit, Efficiency, Total Cooling Output (kBtu/h), Economizer Type (if present)

Project Name: IVC Restroom/Concessions Building
Project Address: Imperial Valley College Campus Imperial 92251
Input File Name: Restroom-Concessions Title-24.cbd39x
H2. FAN SYSTEMS SUMMARY
Table with columns: Name or Item Tag, Qty, Design OA, CFM, Modeling Method, Power, Power Units, Control, CFM, Modeling Method, Power, Power Units, Control
H3. EXHAUST FAN SUMMARY
Table with columns: System ID, Zone Name, Qty, CFM, Motor BHP, Power Per Flow (W/CFM), Total Static Pressure (in. H2O), Leakage

Project Name: IVC Restroom/Concessions Building
Project Address: Imperial Valley College Campus Imperial 92251
Input File Name: Restroom-Concessions Title-24.cbd39x
H4. EXHAUST FAN SUMMARY
Table with columns: System ID, Zone Name, Qty, CFM, Motor BHP, Power Per Flow (W/CFM), Total Static Pressure (in. H2O), Leakage
H5. PUMPS
Table with columns: System Name, Equipment Type, Window Interlocks per (kW/HP), Other Special Features and Controls
H6. SYSTEM SPECIAL FEATURES
Table with columns: System Name, Equipment Type, Window Interlocks per (kW/HP), Other Special Features and Controls
H7. NONRESIDENTIAL VENTILATION
Table with columns: Zone Name, Ventilation Function, # of people, Supply OA, Exhaust, Conditioned Area (ft²), DCV or Occupant Sensor Controls, or Both

Project Name: IVC Restroom/Concessions Building
Project Address: Imperial Valley College Campus Imperial 92251
Input File Name: Restroom-Concessions Title-24.cbd39x
H8. HIGH-RISE RESIDENTIAL DWELLING UNIT AND HOTEL/MOTEL VENTILATION
This Section Does Not Apply
H9. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY
Table with columns: System ID, Zone Name, System Type, Qty, Rate Capacity (kBtu/h), Airflow (cfm), Fan
H10. EVAPORATIVE COOLER SUMMARY
This Section Does Not Apply
H11. HEAT RECOVERY SUMMARY
This Section Does Not Apply
H12. WATER HEATER EQUIPMENT SUMMARY
Table with columns: Name, Heater Element Type, Tank Type, Qty, Tank Vol (gal), Rated Input, Rated Input Unit, Efficiency, Efficiency Unit, Tank Insulation R-Value (inches), Standby Loss Fraction, 24-Hour Heat Flow Rate (gal), Heat Pump Type, Tank Location or Ambient Condition

Project Name: IVC Restroom/Concessions Building
Project Address: Imperial Valley College Campus Imperial 92251
Input File Name: Restroom-Concessions Title-24.cbd39x
J1. COMPUTER ROOMS
Table with columns: Computer Room System Name, Cooling Capacity (tons), Economizer Type, Fan Power (watts)
K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Table with columns: Building Component, Form/Title

Project Name: IVC Restroom/Concessions Building
Project Address: Imperial Valley College Campus Imperial 92251
Input File Name: Restroom-Concessions Title-24.cbd39x
L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Table with columns: Building Component, Form/Title

Project Name: IVC Restroom/Concessions Building
Project Address: Imperial Valley College Campus Imperial 92251
Input File Name: Restroom-Concessions Title-24.cbd39x
M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Table with columns: Building Component, Form/Title

Project Name: IVC Restroom/Concessions Building
Project Address: Imperial Valley College Campus Imperial 92251
Input File Name: Restroom-Concessions Title-24.cbd39x
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
RESPONSIBLE PERSON'S DECLARATION STATEMENT
Table with columns: Name, Title, Signature, Date Signed

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IMPERIAL VALLEY COLLEGE
RESTROOM/CONCESSION BUILDING
ENERGY CALCULATIONS
Document Date: 04-01-22
Date Last Reviewed:
Project Number: 22-091V
Sheet Number: M2.2

Project Name:	IVC Restroom/Concessions Building	NRCC PRP 01.6	Page 13 of 13
Project Address:	Imperial Valley College Campus Imperial 92251	Calculation Date/Time:	10:43, Wed Jun 01, 2022
Input File Name:	Restroom Concessions Title 24.csb(1)3a		
Phone: 928-772-8448	Title:	License #:	

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRCC-PRP-01.6-12092021-6864 Report Generated at: 2022-06-01 07:44:31



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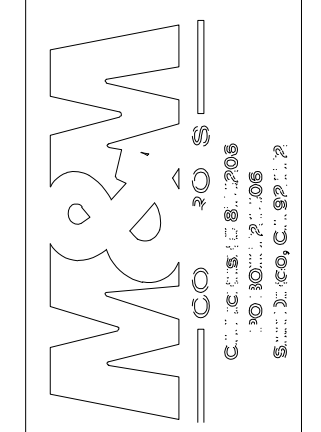
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Project Title
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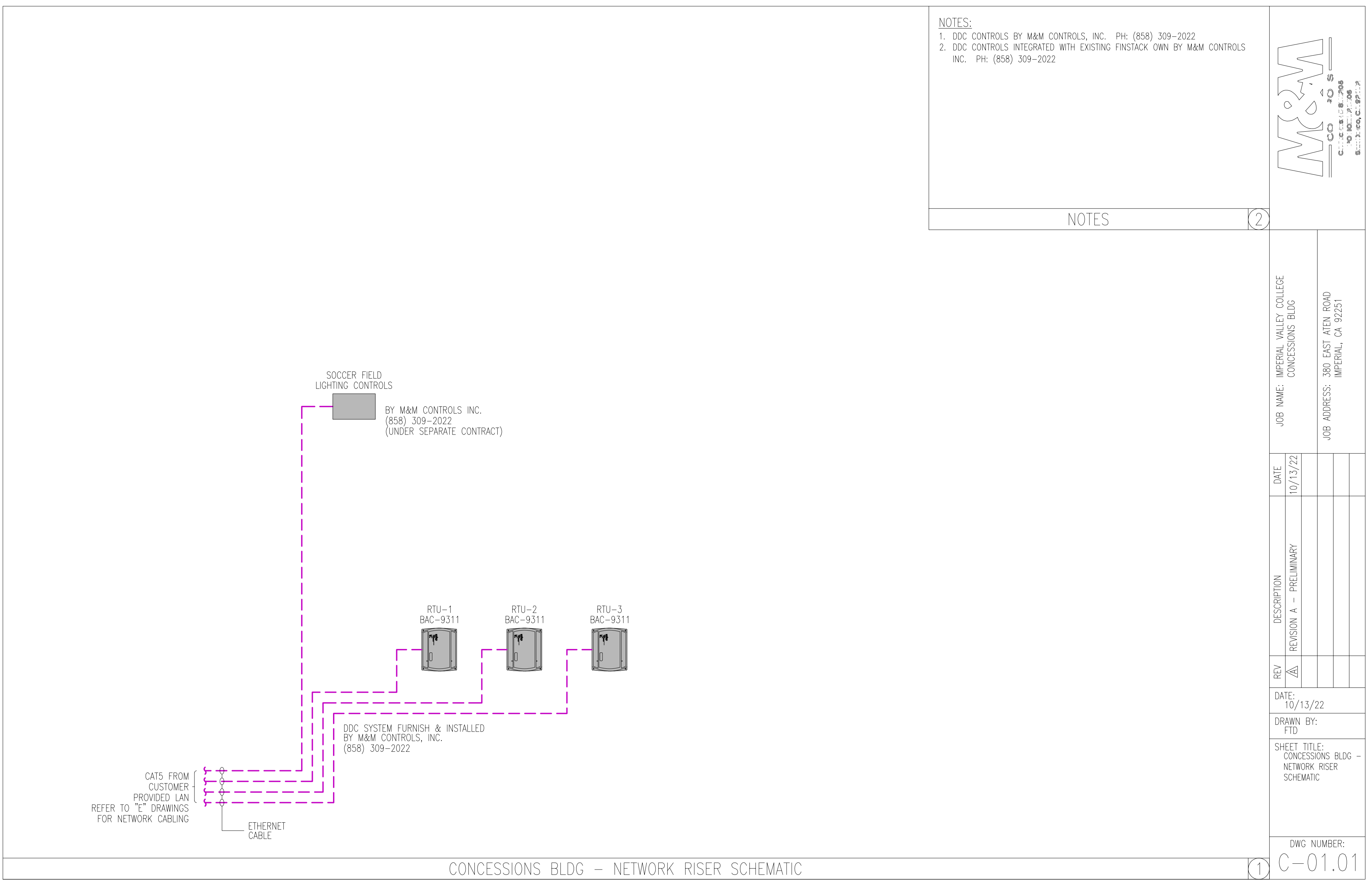
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ENERGY CALCULATIONS

	Document Date	Project Number
	04-01-22	22-091V
	Date Last Revised	Sheet Number
		M2.3

NOTES:
 1. DDC CONTROLS BY M&M CONTROLS, INC. PH: (858) 309-2022
 2. DDC CONTROLS INTEGRATED WITH EXISTING FINSTACK OWN BY M&M CONTROLS INC. PH: (858) 309-2022

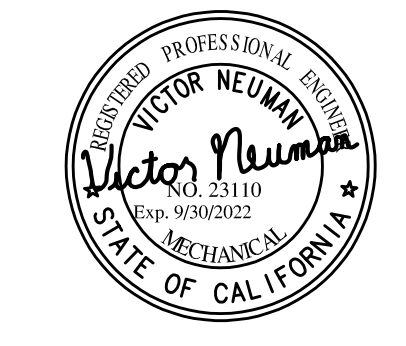


NOTES



CONCESSIONS BLDG - NETWORK RISER SCHEMATIC

DATE:	10/13/22
DESCRIPTION:	REVISION A - PRELIMINARY
REV:	
DATE:	10/13/22
DRAWN BY:	FTD
SHEET TITLE:	CONCESSIONS BLDG - NETWORK RISER SCHEMATIC
DWC NUMBER:	C-01.01



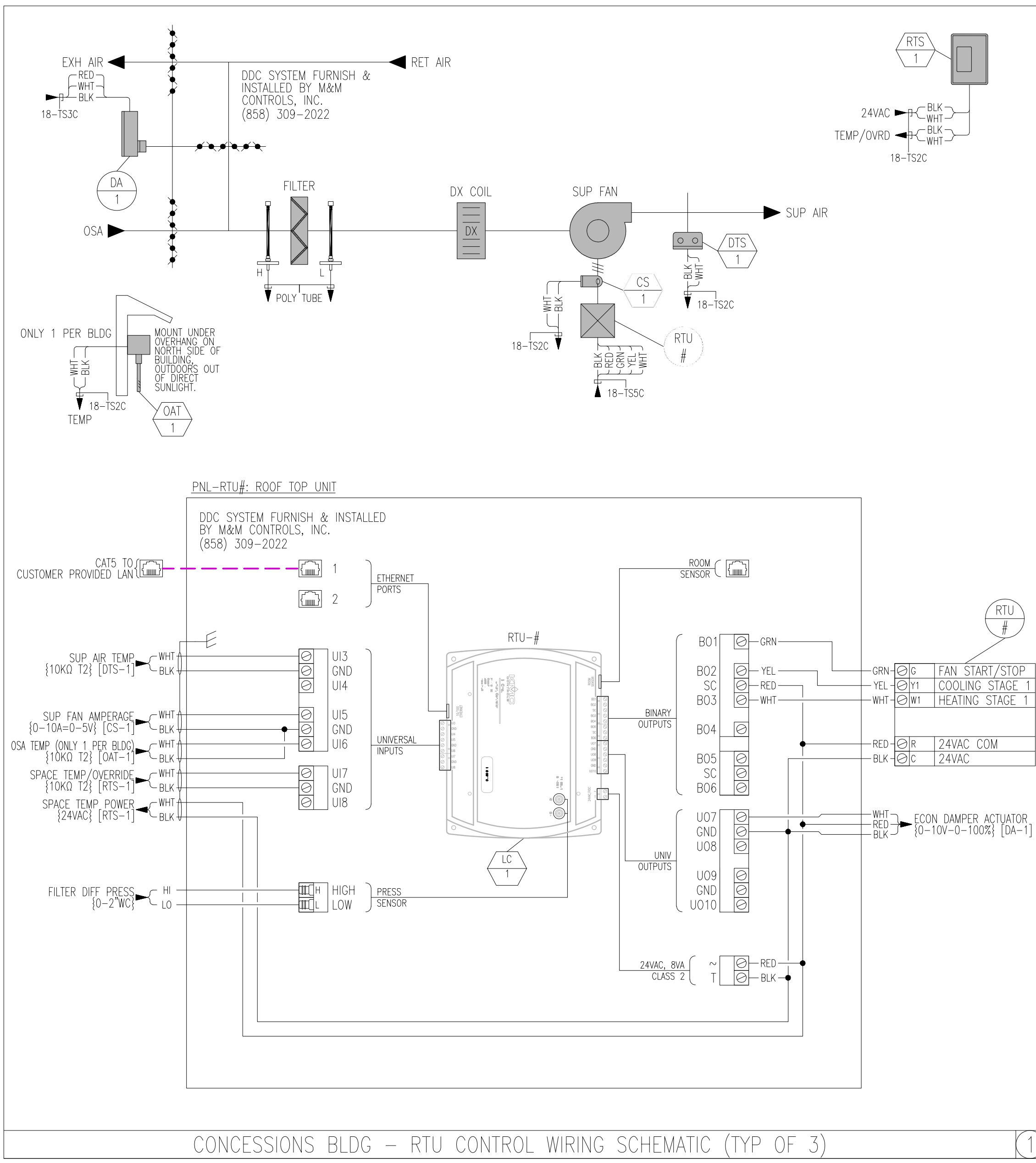
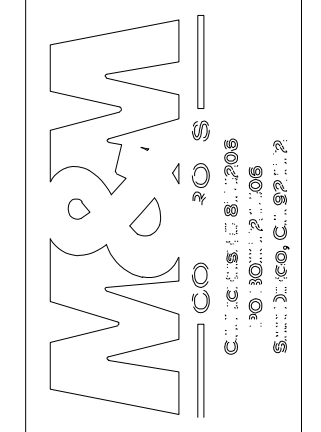
APPROVALS

DIVISION 15 CONSULTING SERVICES, INC.
 11180 Turquoise Circle
 Dewey, Arizona 86327
 (928) 772-8448
 FAX (928) 772-6942
 Division15@csbione.net

SYSTEM ENABLE:
 1. PER FINSTACK OPERATOR WORKSTATION SCHEDULING COMMANDS VIA THE KMC DDC SCHEDULE OCCUPIED TIME START, THE DDC SYSTEM SHALL ENABLE THE AHU FAN TO START AND THE LG OUTDOOR UNIT & COIL RITS TO "RUN".
 2. UPON THE DDC SYSTEM SCHEDULED UNOCCUPIED SCHEDULE, THE AHU FAN SHALL BE COMMAND "OFF".

RTU FAN CONTROL:
 1. THE RTU FAN SHALL START WHEN IT IS SCHEDULED FROM THE SYSTEM SCHEDULE.

ROOM TEMPERATURE CONTROL:
 1. IF THE SPACE TEMPERATURE RISES ABOVE THE SPACE TEMPERATURE COOLING SETPOINT, COOLING WILL STAGE TO MAINTAIN THE SPACE TEMPERATURE SETPOINT.
 2. IF THE SPACE TEMPERATURE FALLS BELOW THE SPACE TEMPERATURE HEATING SETPOINT, HEATING WILL STAGE TO MAINTAIN THE SPACE TEMPERATURE SETPOINT.
 3. COOLING AND HEATING SHALL NOT OPERATE SIMULTANEOUSLY.



CONCESSIONS BLDG - RTU CONTROL WIRING SCHEMATIC (TYP OF 3)

SEQUENCE OF OPERATIONS

- NOTES:
- KMC CONTROLLER TO BE MOUNTED INSIDE THE RTU UNIT.
 - BAPI STAT 24VAC INPUT REQUIRES A SEPARATE SHIELDED WIRE WITH GROUND LANDED AT THE CONTROL PANEL ONLY (NOT AT THE SENSOR).
 - OSA TEMP TO RTU CONTROLLER (ONLY 1 PER BUILDING)
 - KMC DDC CONTROLS BY M&M CONTROLS INC. (858) 309-2022

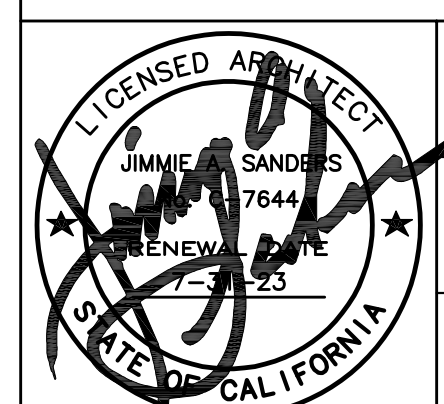
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REV:	
DATE:	10/13/22
DRAWN BY:	FTD
SHEET TITLE:	CONCESSIONS BLDG - RTU CONTROL WIRING SCHEMATIC (TYP OF 3)
DWC NUMBER:	C-02.01

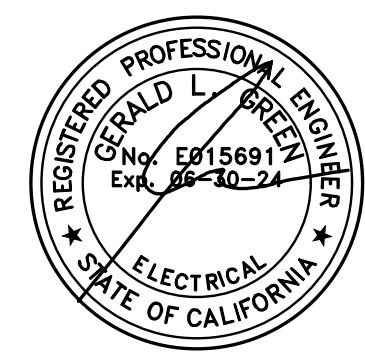
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 760 353 5440 FAX 760 353 5442

Project Title
IMPERIAL VALLEY COLLEGE RESTROOM/ CONCESSION BUILDING

CONTROLS

Document Date	10-14-22	Project Number	22-091V
Date Last Revised		Sheet Number	M2.4





APPROVALS

Table with 2 columns: Symbol and Description. Includes Lighting/switching symbols like control panels, override switches, zone controlled switches, and motion sensors.

Table with 2 columns: Symbol and Description. Includes Tel/Data symbols like data outlets, telephone outlets, and fire-rated outlets.

- GENERAL NOTES: 1. ALL ELECTRICAL DEVICES AND UTILIZATION EQUIPMENT SHALL BE LISTED BY AN APPROVED TESTING AGENCY. 2. ALL WORK TO COMPLY WITH THE LATEST EDITION OF THE CALIFORNIA ELECTRICAL CODE.

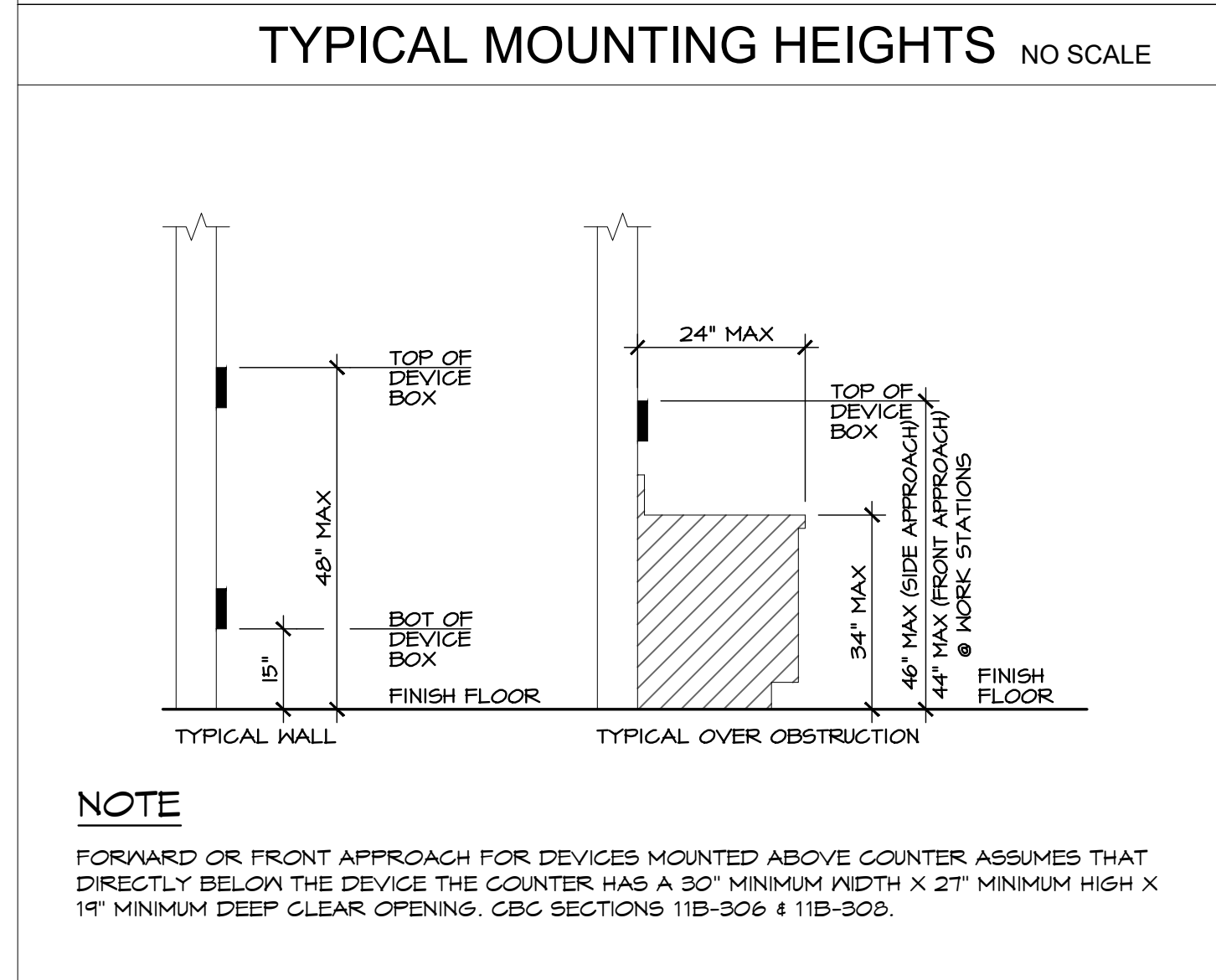


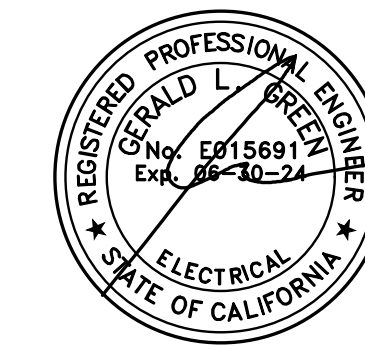
Table with 2 columns: Symbol and Description. Includes Power symbols like junction boxes, duplex receptacles, and switches, and Abbreviations like AMPERES, ALUMINUM, and VOLT-AMPERE.

- MEP Component Anchorage Note: All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA approved construction documents. 1. All permanent equipment and components.

Table with 2 columns: Symbol and Description. Includes Abbreviations like AMPERES, ALUMINUM, and VOLT-AMPERE.



Sanders, Inc. Architecture/Engineering. 102 INDUSTRY WAY, SUITE A, EL CENTRO, CA 92243. Project Title: IMPERIAL VALLEY COLLEGE RESTROOM/CONCESSION BUILDING. Sheet Title: SYMBOLS LIST. Includes a table with Document Date, Date Last Revised, Project Number, and Sheet Number.

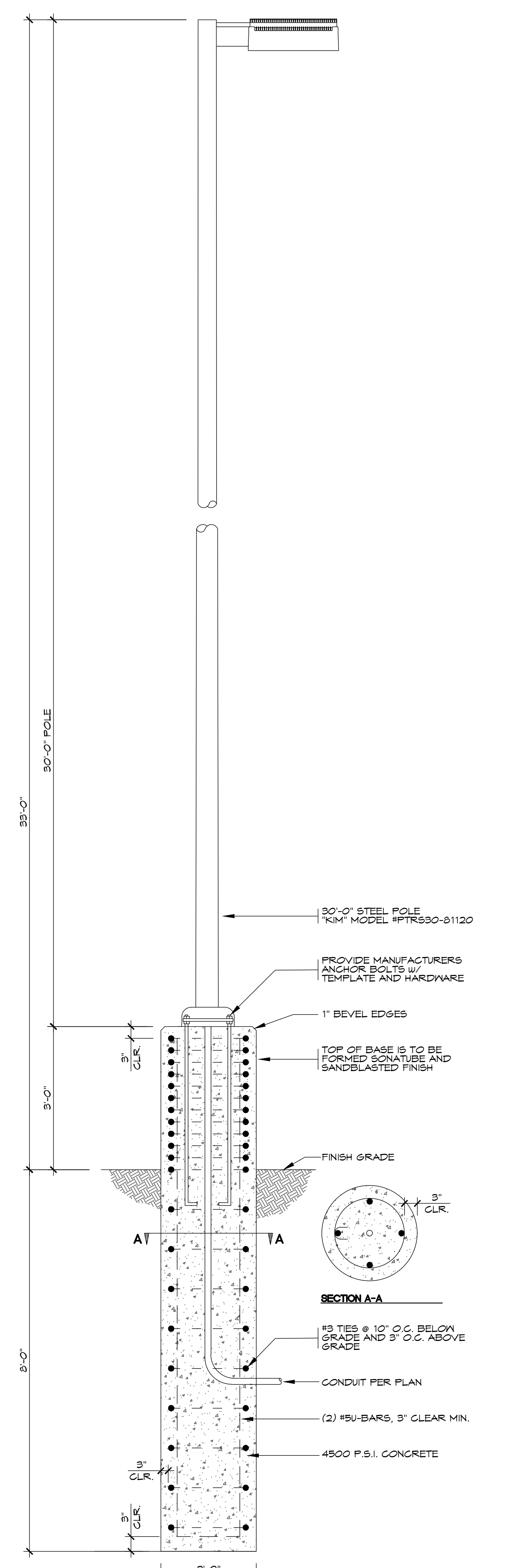


APPROVALS

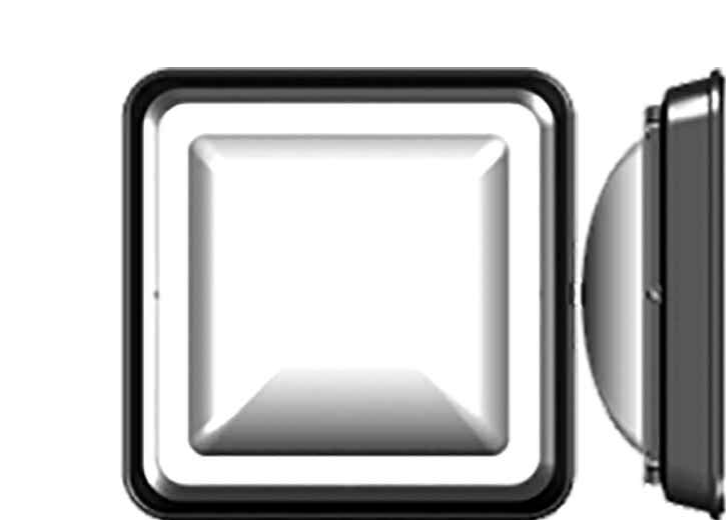
LIGHT FIXTURE SCHEDULE									
FIXTURE TYPE	SYMBOL	MANUFACTURER	CATALOG NUMBER	WATTS	VOLTS	MTG	LAMP TYPE	BUG	REMARKS
B	□	KENALL	MS11EL-PP-20L35K-120-#500	20	120	WS	20W LED	-	
C	⊠	KENALL	MLHAB-24-R-LG-PP-1-25L35K-DCC-1-120-#500	25	120	FN	25W LED	-	(1)
D	▭	KENALL	MLHAB5-B48/M48/E48-R-LG-PP-1-135L35K-DCC-1-120-#500	135	120	FN	135W LED	-	(1)
E	▭	KENALL	MLHAB-96-R-LG-PP-1-40L35K-DCC-1-120-#500	90	120	FN	90W LED	-	(1)
F	▭	KENALL	MLHAB-48-R-LG-PP-1-45L35K-DCC-1-120-#500	45	120	FN	25W LED	-	(1)
G	⊠	KIM	1A-ETA2-81L-100-4K8-2-UNV-PTRS-68120-A/PS-P	175	277	F	175W LED	-	
H	⊠	HUBBELL	M6H3-277-4000	90	277	WS	90W LED	-	

MOUNTING TYPES:
 WS-WALL SURFACE, WR-WALL RECESSED, CS-CEILING SURFACE, CR-CEILING RECESSED, CH-CHAIN, PN-PENDANT, U-UNIVERSAL, G-GROUND, P-POLE, UC-UNDER CABINET, T-TRACK, CB-CABLE, TR-TRELLIS, C-COVE

NOTES:
 (1) CONTRACTOR IS TO PROVIDE PENDANTS AS REQUIRED



FIXTURE "G" DETAIL
 NO SCALE



FIXTURE TYPE "A"



FIXTURE TYPE "B"



FIXTURE TYPE "C"



FIXTURE TYPE "D"



FIXTURE TYPE "E"



FIXTURE TYPE "F"



FIXTURE TYPE "G"



FIXTURE TYPE "H"

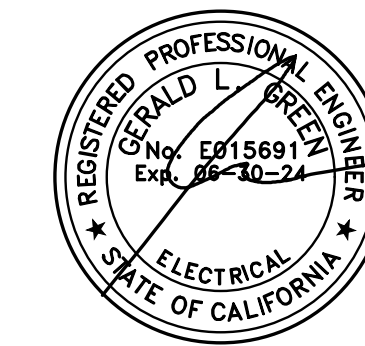


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Project Title
**IMPERIAL VALLEY COLLEGE
 RESTROOM/CONCESSION BUILDING**

Sheet Title
FIXTURE SCHEDULE AND PICTURES

	Document Date 06-01-22	Project Number 22-091V
	Date Last Revised 10-13-22	Sheet Number E002



APPROVALS

MUSCO Lighting Control System Summary

Project Information

Project #: 123173
 Project Name: Imperial Valley College Soccer/Track
 Date: 06/02/22
 Project Engineer: Hunter Sabers
 Sales Representative: Karin Anderson
 Control System Type: Control-Link™ Control and Monitoring System
 Communication Type: PowerLine-ST
 Scam: 123173G
 Document ID: 123173P1V8-0602110614
 Distribution Panel Location or ID: All Fields
 Total # of Distribution Panel Locations for Project: 1
 Design Voltage/Hertz/Phase: 480/60/3
 Control Voltage: 120

Equipment Listing

DESCRIPTION	APPROXIMATE SIZE	QTY - SIZE (AMPS)
1. Control and Monitoring Cabinet	24 X 72	1

Materials Checklist
 Contractor/Customer Supplied:

- A dedicated control circuit must be supplied per distribution panel location.
 - If the control voltage is NOT available, a control transformer is required.
- Electrical distribution panel to provide overcurrent protection for circuits.
 - HID rated or D-curve circuit breaker sized per full load amps on Circuit Summary by Zone Chart.
- Wiring.
 - See chart on page 2 for wiring requirements.
 - Equipment grounding conductor and splices must be insulated (per circuit).
 - Lightning ground protection (per pole), if not Musco supplied.
- Electrical conduit/wireway system.
 - Entrance hubs rated NEMA 4, must be die-cast zinc, PVC, or copper-free die-cast aluminum.
- Mounting hardware for cabinets.
- Breaker lock-on device to prevent unauthorized power interruption to control power and powerline connection (if present).
- Anti-corrosion compound to apply to ends of wire, if necessary.

Call Control-Link Central™ operations center at 877-647-3319 to schedule activation of the control system upon completion of the installation.

Note: Activation may take up to 1 1/2 hours.

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MUSCO Lighting Control System Summary

Imperial Valley College Soccer/Track / 123173 - 123173G
 All Fields - Page 2 of 4

Control-Link, Control and Monitoring System

Circuit ID	Description	# of Wires	Wires (AWG)	Conduit (in)	Max. Wire Length (ft)	MUSCO Supplied	Notes
1	Line power to control cabinet, and equipment grounding conductor	3	12	1.73	N/A	No	A-E
2	Load power to lighting circuits, and equipment grounding conductor	4	12	1.73	N/A	No	A-E
3	Control power (dedicated, 20A)	3	12	1.73	N/A	No	C-E

Notes:

- See voltage and phasing per the notes on cover page.
- Calculate per load and voltage drop.
- All conduit diameters should be per code unless otherwise specified to allow for conductor size.
- Equipment grounding conductor and any splices must be installed.
- Refer to control and monitoring system installation instructions for more details on equipment information and the installation requirements.

IMPORTANT: Control wires (3) must be in separate conduit from line and load power wires (1, 2).

MUSCO Lighting Control System Summary

Imperial Valley College Soccer/Track / 123173 - 123173G
 All Fields - Page 3 of 4

SWITCHING SCHEDULE

Field/Zone Description	Zones
Soccer	1
Area	2

CONTROL POWER CONSUMPTION

120V Single Phase

VA loading of Musco Supplied Equipment	INRUSH: 1960.0 SEALED: 208.0
--	---------------------------------

CIRCUIT SUMMARY BY ZONE

POLE	CIRCUIT DESCRIPTION	# OF FIXTURES	# OF DRIVERS	FULL LOAD AMPS	CONTACTOR SIZE (AMPS)	CONTACTOR ID	ZONE
S1	Soccer	13	13	28.8	30	C1	1
S2	Soccer	13	13	28.8	30	C2	1
S3	Soccer	13	13	28.8	30	C3	1
S4	Soccer	13	13	28.8	30	C4	1
S1	Area	2	1	1.7	30	C5	2
S2	Area	2	1	1.7	30	C6	2
S3	Area	2	1	1.7	30	C7	2
S4	Area	2	1	1.7	30	C8	2

Full Load Amps based on amps per driver.

MUSCO Lighting Control System Summary

Imperial Valley College Soccer/Track / 123173 - 123173G
 All Fields - Page 4 of 4

PANEL SUMMARY

CABINET #	CONTROL MODULE LOCATION	CONTACTOR ID	CIRCUIT DESCRIPTION	FULL LOAD AMPS	DISTRIBUTION PANEL ID (BY OTHERS)	CIRCUIT BREAKER POSITION (BY OTHERS)
1	1	C1	Pole S1	28.84		
1	1	C2	Pole S2	28.84		
1	1	C3	Pole S3	28.84		
1	1	C4	Pole S4	28.84		
1	1	C5	Pole S1	1.73		
1	1	C6	Pole S2	1.73		
1	1	C7	Pole S3	1.73		
1	1	C8	Pole S4	1.73		

ZONE SCHEDULE

ZONE	SELECTOR SWITCH	ZONE DESCRIPTION	POLE ID	CONTACTOR ID
Zone 1	1	Soccer	S1	C1
			S2	C2
			S3	C3
			S4	C4
Zone 2	2	Area	S1	C5
			S2	C6
			S3	C7
			S4	C8



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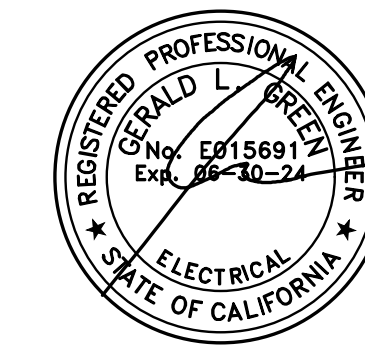
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Project Title
IMPERIAL VALLEY COLLEGE RESTROOM/CONCESSION BUILDING

Sheet Title
MUSCO CONTROL SUMMARY

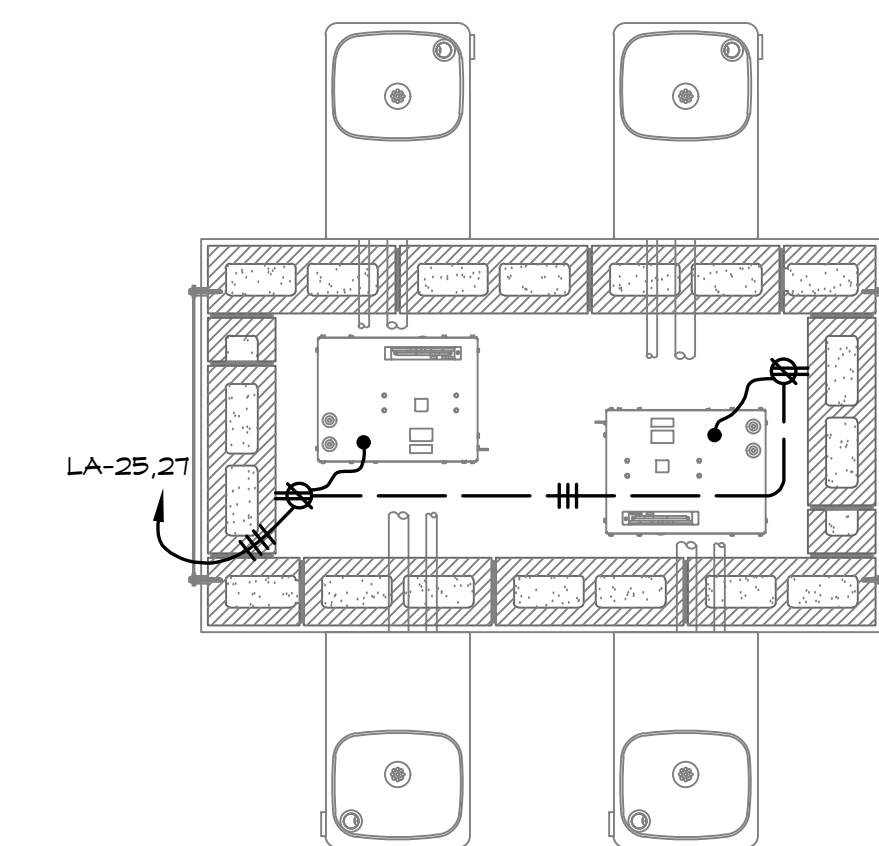
	Document Date 06-01-22	Project Number 22-091V
	Date Last Revised 10-13-22	Sheet Number E003



APPROVALS

NOTES

- 1 MAIN SWITCHBOARD 1MS
- 2 MUSCO CONTROL PANEL
- 3 FLUSH GRADE CONCRETE PULLBOX, SEE SPECIFICATIONS
- 4 IID TRANSFORMER, CONTRACTOR IS TO PROVIDE CONCRETE PAD AND GROUNDING, PER IID STANDARDS
- 5 (2) 5" P.V.C. C.O. (PRIMARY), CONCRETE ENGASE PER IID STANDARDS
- 6 (2) 4" P.V.C. C.O. (SECONDARY), CONCRETE ENGASE PER IID STANDARDS
- 7 2" P.V.C. C. 3/2 CU, 2"10, 1/4 CU GND
- 8 1 1/2" P.V.C. C., 2"14 CU, 1"8 CU GND
- 9 NEW HANDHOLE PER IID
- 10 LBU UNIT
- 11 PROVIDE MUSCO SPORT FIELD LIGHT STANDARD
- 12 PROVIDE MUSCO SPORTS FIELD LIGHT STANDARD FOR BORDERLINK ANTENNA
- 13 PROVIDE FUTURE CONDUIT STUB OUTS, SEE DETAIL A/E201 FOR MORE INFORMATION
- 14 EXISTING IID SECTOR
- 15 EXISTING CONDUIT STUBOUTS
- 16 PROVIDE NEW IID SECTOR PER IID STANDARDS
- 17 PROVIDE (2) 5" STUB OUTS TO NORTH & SOUTH
- 18 EXISTING IID SWITCH, PROTECT
- 19 PROVIDE PRIMARY IID CONDUIT UNDER EXISTING PRIMARY IID CONDUIT & CONDUCTORS
- 20 PROVIDE PRIMARY IID CONDUIT & CONDUCTORS UNDER EXISTING ROAD/SITE IMPROVEMENTS, TRENCH, PATCH AS REQUIRED



Chiller Enclosure Electrical
34"x14"

A
E101



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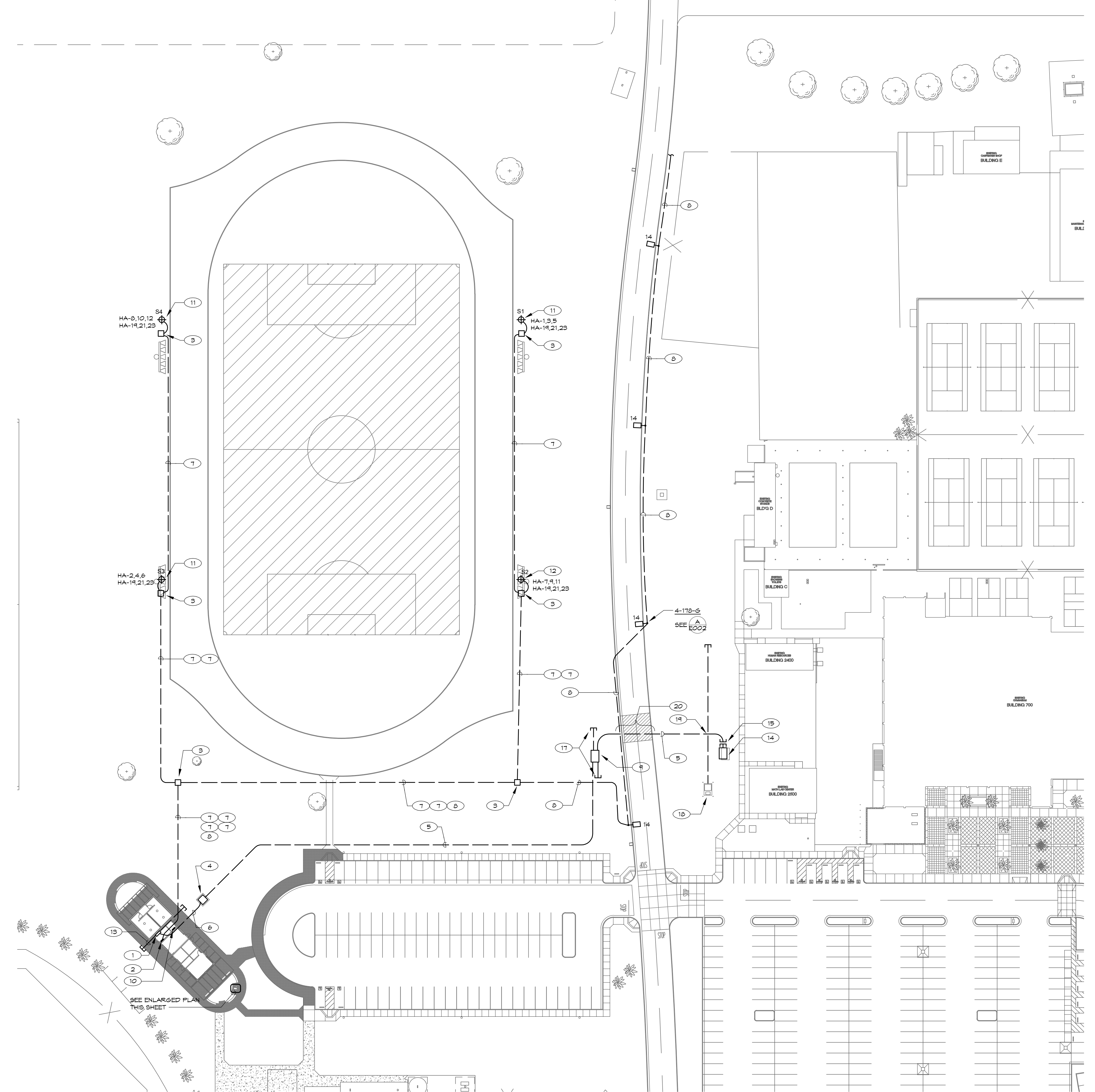
Project Title
**IMPERIAL VALLEY COLLEGE
 RESTROOM/CONCESSION BUILDING**

Sheet Title
SITE ELECTRICAL PLAN

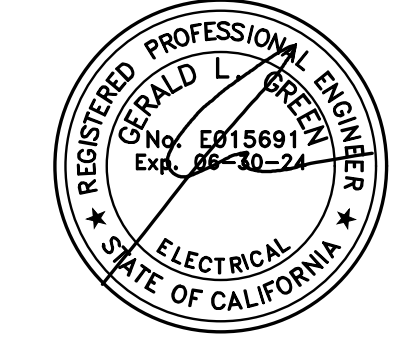
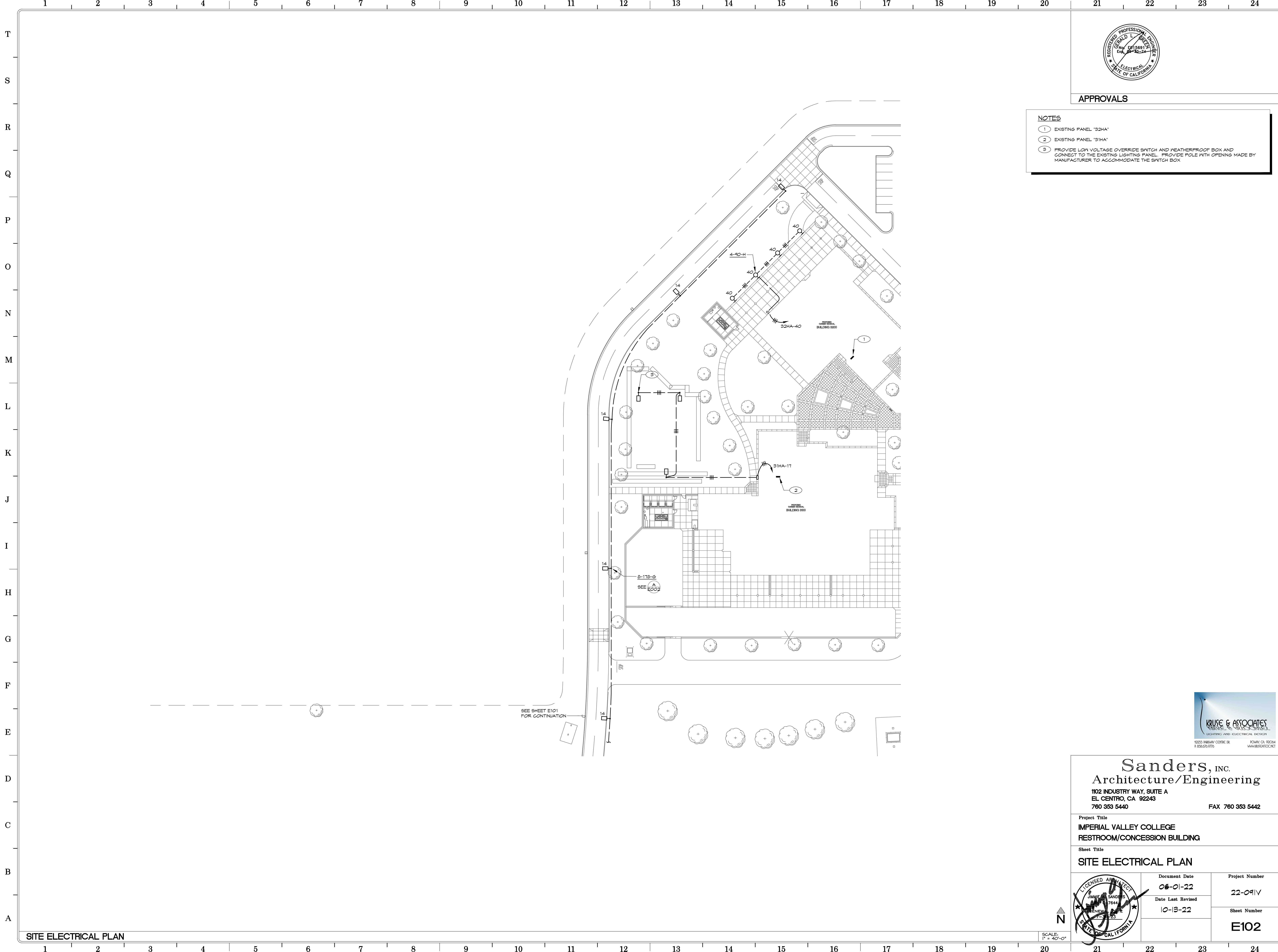
	Document Date 06-01-22	Project Number 22-091V
	Date Last Revised 10-13-22	Sheet Number E101

SCALE: 1" = 40'-0"

SITE ELECTRICAL PLAN



SEE ENLARGED PLAN THIS SHEET



APPROVALS

- NOTES**
- ① EXISTING PANEL "32HA"
 - ② EXISTING PANEL "31HA"
 - ③ PROVIDE LOW VOLTAGE OVERRIDE SWITCH AND WEATHERPROOF BOX AND CONNECT TO THE EXISTING LIGHTING PANEL. PROVIDE POLE WITH OPENING MADE BY MANUFACTURER TO ACCOMMODATE THE SWITCH BOX.

SEE SHEET E101 FOR CONTINUATION

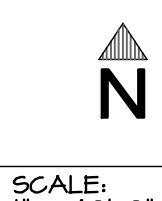


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Project Title
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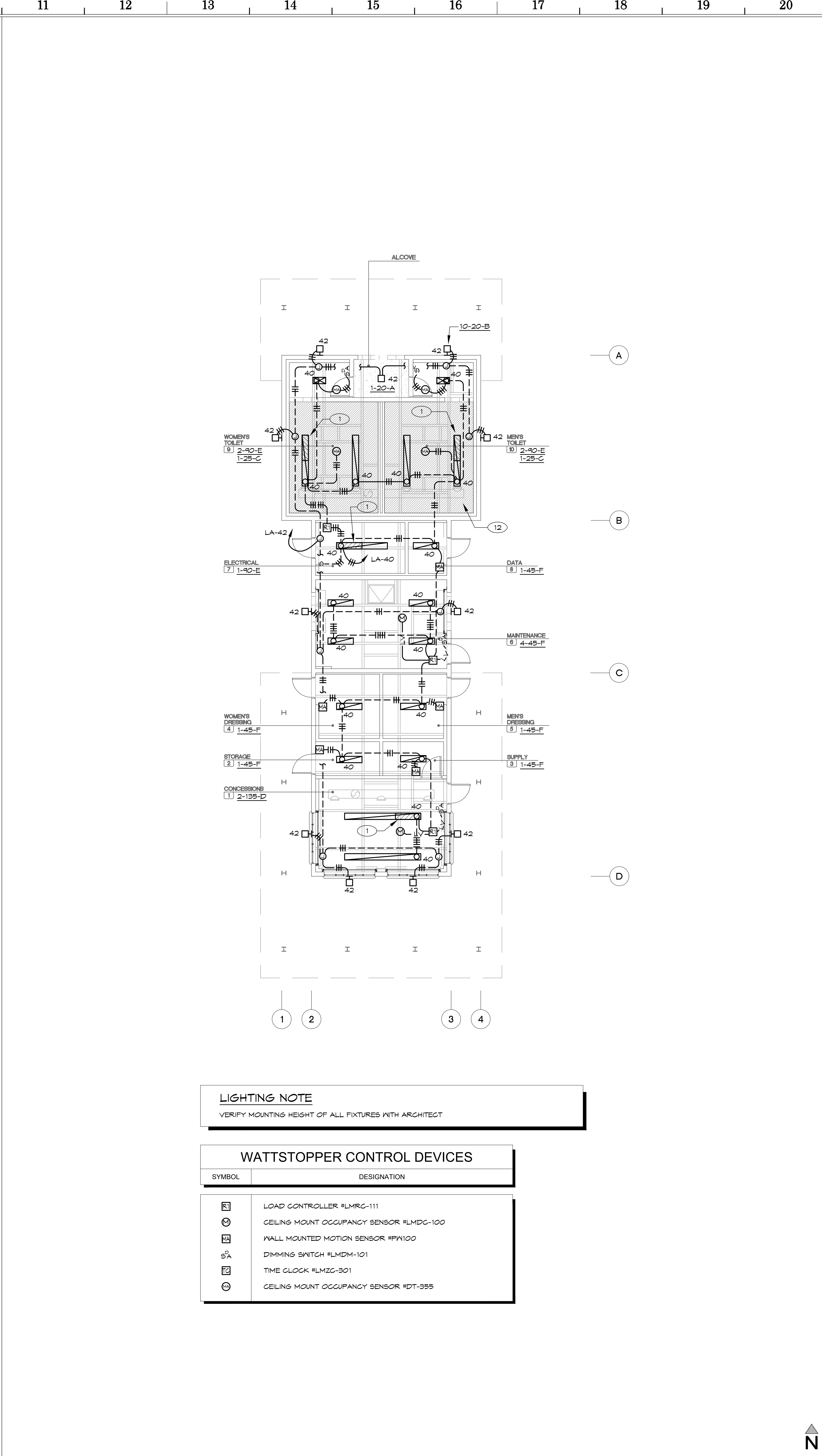
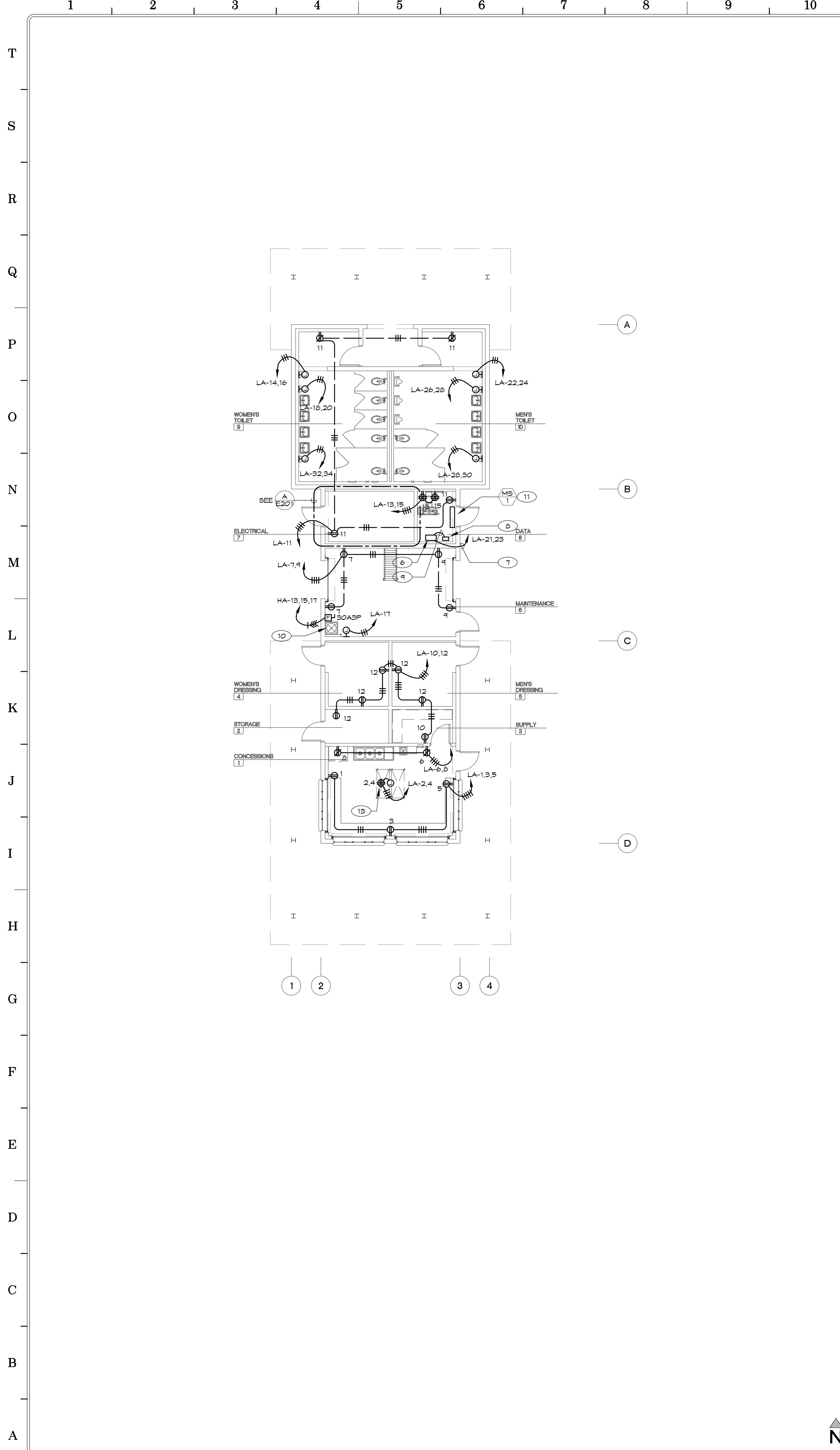
Sheet Title
SITE ELECTRICAL PLAN

	Document Date 06-01-22	Project Number 22-091V
	Date Last Revised 10-13-22	Sheet Number E102



SCALE: 1" = 40'-0"

SITE ELECTRICAL PLAN



APPROVALS

NOTES

- THIS FIXTURE IS TO BE PROVIDED WITH AN EMERGENCY BATTERY PACK. PROVIDE CONSTANT HOT CHARGING WIRE
- MAIN SWITCHBOARD 'MS', 2T/480V, 3Ø
- 75 KVA 480V//120/208V, 3Ø, 4W DRY TYPE TRANSFORMER
- PANEL 'LA'
- MUSCO CONTROL PANEL
- LEU UNIT PROVIDED BY OTHERS
- 1 1/2" C, 3#2 CU, 1#4 CU GND
- GPS UNIT PROVIDED BY OTHERS
- 1" C.O.
- WATER HEATER, 22A, 460V, 3Ø
- FED FROM ROOF TOP UNIT
- SHADING INDICATES SKYLIT AREA, TYPICAL
- RECEPTACLE DROP FROM CEILING, VERIFY MOUNTING HEIGHT. PROVIDE STRAIN RELIEF
- FUTURE MUSCO CONTROL PANEL
- 36" x 60" x 24" DEEP PULLBOX
- (Ø) 2" PVC C.O.
- (Ø) 1 1/2" PVC C.O.
- 4" PVC C.O.
- PANEL 'HA'
- (Ø) 1 1/2" PVC C.O. (SPARE)
- (Ø) 4" PVC C.O. (SPARE)
- FUTURE PANEL 'HB'
- PANEL 'MH'
- PANEL 'ML'
- 165 KVA 480V//120/208V, 3Ø, 4W DRY TYPE TRANSFORMER ABOVE PANEL

ELECTRIC ROOM DETAIL
1/4"=1'-0"

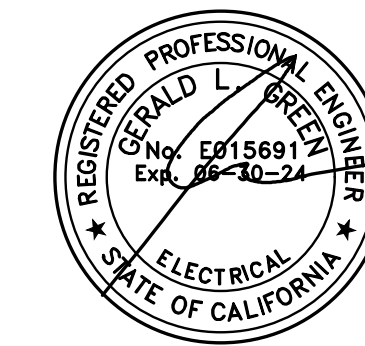
KRUSE & ASSOCIATES
LIGHTING AND ELECTRICAL DESIGN
10225 HARBOR CENTRE DR
FREMONT, CA 94538
TEL: 925.436.1000
WWW.KRUSEANDASSOCIATES.COM

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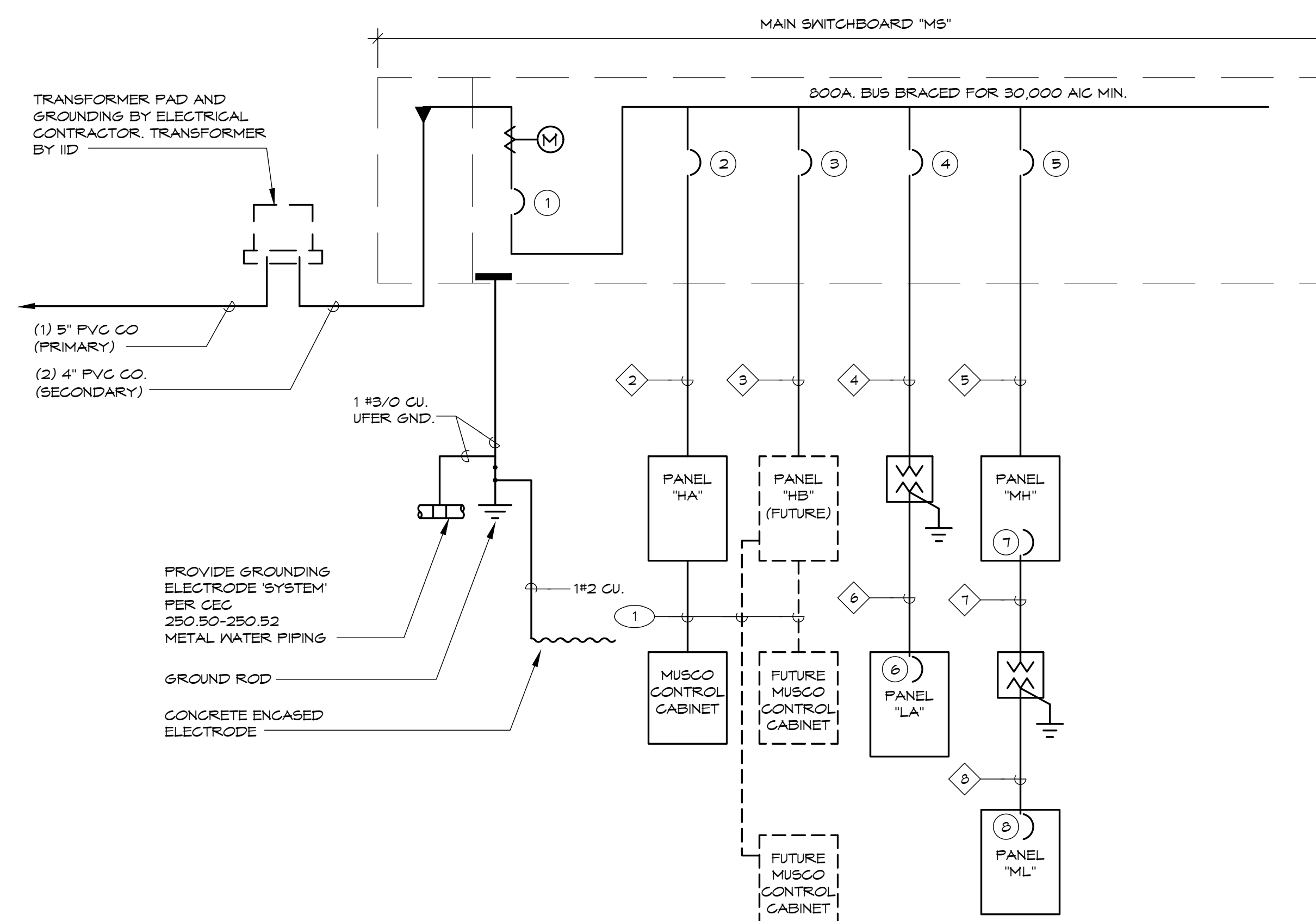
Project Title
**IMPERIAL VALLEY COLLEGE
RESTROOM/CONCESSION BUILDING**

Sheet Title
CONCESSION POWER + LIGHTING PLAN

	Document Date 06-01-22	Project Number 22-091V
	Date Last Revised 10-13-22	Sheet Number E201



APPROVALS



POWER SINGLE LINE DIAGRAM

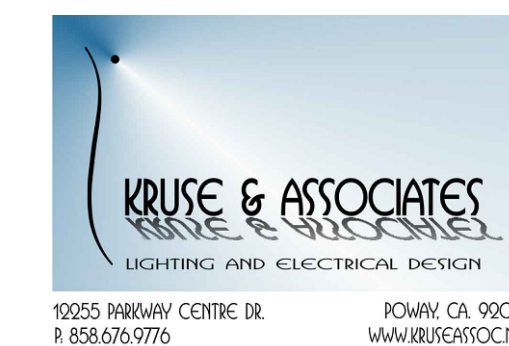
NO SCALE

NOTES
 ① SEE SITE PLAN AND BUILDING PLAN FOR CONDUITS

LOAD SCHEDULE
 PANEL "HA" 115330 W
 PANEL "HB" 100000 W
 PANEL "LA" 50830 W
 PANEL "MH" 26299 W
 TOTAL 242467 W = 352 A @ 277/480, 3Ø

DEVICE NUMBER	C.B. OR S.W. SIZE	FUSE SIZE	FUSE TYPE	FEEDER NUMBER	CONDUITS & CONDUCTORS					LENGTH	Ø/Ø V.D.
					CONDUIT TYPE	CONDUIT SIZE	CNDCTR. QUANTITY	CNDCTR. SIZE	CNDCTR. TYPE		
①	600A 3Ø	-	-	①	-	-	-	-	-	-	-
②	300A 3Ø	-	-	②	PVC	4"	4	350 MCM	CU	2	-
③	100A 3Ø	-	-	③	PVC	1 1/2"	-	-	-	-	-
④	100A 3Ø	-	-	④	PVC	1 1/2"	3	2	CU	Ø	-
⑤	100A 3Ø	-	-	⑤	PVC	1 1/2"	4	2	CU	Ø	-
⑥	225A 3Ø	-	-	⑥	PVC	2"	4	4/0	CU	2	-
⑦	30A 3Ø	-	-	⑦	EMT	1"	3	10	CU	12	-
⑧	30A 3Ø	-	-	⑧	EMT	1 1/2"	4	4	CU	Ø	-

- SINGLE LINE DIAGRAM NOTES**
- VERTICAL BUS MAY BE TAPERED TO NOT LESS THAN 1/3 THE AMPACITY RATING OF THE MAIN HORIZONTAL BUS.
 - HORIZONTAL AND VERTICAL BUS SHALL BE FULL LENGTH, AND BE RATED NO LESS THAN THE NOTED AIC RATED VALUE.
 - CONTRACTOR SHALL SUBMIT SWITCHBOARD SHOP DRAWINGS TO THE SERVING UTILITY FOR APPROVAL PRIOR TO FABRICATION. SWITCHBOARD SHALL COMPLY WITH IID REQUIREMENTS.
 - ALL CONDUCTORS FEEDING PANELBOARDS SHALL BE COPPER TYPE THIN WITH EMT OR PVC CONDUIT. BRANCH CIRCUIT AND FEEDER CABLES IN ALL SIZES SHALL HAVE THIN, THIN OR THIN INSULATION WITH EMT CONDUIT. AC CABLE IS NOT ALLOWED TO BE INSTALLED. A EQUIPMENT GROUND CONDUCTOR SHALL BE IN ALL FLEXIBLE CONDUITS. XHHW TO BE USED AT ALL EXTERIOR LOCATION PANEL FEEDERS.
 - ALL EQUIPMENT SHOWN IS NEW UNLESS NOTED OTHERWISE.
 - EACH TRANSFORMER SHALL USE THE NEAREST ELECTRODE AS THE SECONDARY GROUNDING SYSTEM. (I.E. BUILDING STEEL, COLD WATER PIPE.)
 - ALL TERMINATION LOSS OF PANELS AND SWITCHBOARDS TO BE RATED TO ACCEPT 75 DEGREE CONDUCTORS.
 - ALL MAIN SERVICE CIRCUIT BREAKERS SHALL BE 100% RATED.
 - FOR ALL PANELBOARDS SUPPLYING FIRE ALARM EQUIPMENT, PROVIDE LOCKABLE COVER, IDENTIFIED CIRCUIT BREAKER (RED), AND A BREAKER LOCK-OFF DEVICE.
 - PULL SECTION TAPS ARE TO BE FACTORY INSTALLED, FIELD INSTALLED PER FACTORY SPECIFICATIONS OR TO BE CERTIFIED BY A NRTL CERTIFIED THIRD PARTY TESTING LABORATORY.

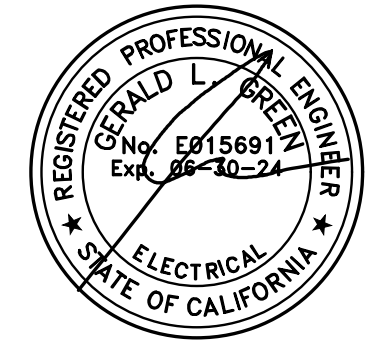


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Project Title
**IMPERIAL VALLEY COLLEGE
 RESTROOM/CONCESSION BUILDING**

Sheet Title
SINGLE LINE DIAGRAM + PANEL SCHE.

	Document Date 06-01-22	Project Number 22-091V
	Date Last Revised 10-13-22	Sheet Number E301



APPROVALS

INDOOR LIGHTING - CALIFORNIA ENERGY COMMISSION. CERTIFICATE OF COMPLIANCE. Project Name: Imperial Valley College - Restroom & Concession Building. Section: 1. GENERAL INFORMATION. Section 2: PROJECT SCOPE. Section 3: COMPLIANCE RESULTS.

INDOOR LIGHTING - CALIFORNIA ENERGY COMMISSION. CERTIFICATE OF COMPLIANCE. Project Name: Imperial Valley College - Restroom & Concession Building. Section: 4. EXCEPTIONAL CONDITIONS. Section 5: ADDITIONAL REMARKS. Section 6: INDOOR LIGHTING FIXTURE SCHEDULE.

INDOOR LIGHTING - CALIFORNIA ENERGY COMMISSION. CERTIFICATE OF COMPLIANCE. Project Name: Imperial Valley College - Restroom & Concession Building. Section: 7. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM. Section 8: TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE.

INDOOR LIGHTING - CALIFORNIA ENERGY COMMISSION. CERTIFICATE OF COMPLIANCE. Project Name: Imperial Valley College - Restroom & Concession Building. Section: 9. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING. Section 10: ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS.

INDOOR LIGHTING - CALIFORNIA ENERGY COMMISSION. CERTIFICATE OF COMPLIANCE. Project Name: Imperial Valley College - Restroom & Concession Building. Section: 11. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION. Section 12: DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE.

INDOOR LIGHTING - CALIFORNIA ENERGY COMMISSION. CERTIFICATE OF COMPLIANCE. Project Name: Imperial Valley College - Restroom & Concession Building. Section: 13. DOCUMENTATION AUTHOR'S DECLARATION STATEMENT. Section 14: RESPONSIBLE PERSON'S DECLARATION STATEMENT.

OUTDOOR LIGHTING - CALIFORNIA ENERGY COMMISSION. CERTIFICATE OF COMPLIANCE. Project Name: Imperial Valley College - Restroom & Concession Building. Section: 15. GENERAL INFORMATION. Section 16: PROJECT SCOPE.

OUTDOOR LIGHTING - CALIFORNIA ENERGY COMMISSION. CERTIFICATE OF COMPLIANCE. Project Name: Imperial Valley College - Restroom & Concession Building. Section: 17. COMPLIANCE RESULTS. Section 18: EXCEPTIONAL CONDITIONS.

OUTDOOR LIGHTING - CALIFORNIA ENERGY COMMISSION. CERTIFICATE OF COMPLIANCE. Project Name: Imperial Valley College - Restroom & Concession Building. Section: 19. OUTDOOR LIGHTING FIXTURE SCHEDULE. Section 20: COMPLIANCE RESULTS.

OUTDOOR LIGHTING - CALIFORNIA ENERGY COMMISSION. CERTIFICATE OF COMPLIANCE. Project Name: Imperial Valley College - Restroom & Concession Building. Section: 21. OUTDOOR LIGHTING CONTROLS. Section 22: LIGHTING ALLOWANCE: SALES FRONTAGE.

OUTDOOR LIGHTING - CALIFORNIA ENERGY COMMISSION. CERTIFICATE OF COMPLIANCE. Project Name: Imperial Valley College - Restroom & Concession Building. Section: 23. LIGHTING POWER ALLOWANCE (per §160.2). Section 24: LIGHTING ALLOWANCE: ORNAMENTAL.

OUTDOOR LIGHTING - CALIFORNIA ENERGY COMMISSION. CERTIFICATE OF COMPLIANCE. Project Name: Imperial Valley College - Restroom & Concession Building. Section: 25. EXISTING CONDITIONS POWER ALLOWANCE (alterations only). Section 26: DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION.

OUTDOOR LIGHTING - CALIFORNIA ENERGY COMMISSION. CERTIFICATE OF COMPLIANCE. Project Name: Imperial Valley College - Restroom & Concession Building. Section: 27. DOCUMENTATION AUTHOR'S DECLARATION STATEMENT. Section 28: RESPONSIBLE PERSON'S DECLARATION STATEMENT.

OUTDOOR LIGHTING - CALIFORNIA ENERGY COMMISSION. CERTIFICATE OF COMPLIANCE. Project Name: Imperial Valley College - Restroom & Concession Building. Section: 29. LIGHTING ALLOWANCE: PER APPLICATION. Section 30: LIGHTING ALLOWANCE: PER SPECIFIC AREA.

OUTDOOR LIGHTING - CALIFORNIA ENERGY COMMISSION. CERTIFICATE OF COMPLIANCE. Project Name: Imperial Valley College - Restroom & Concession Building. Section: 31. LIGHTING ALLOWANCE: PER APPLICATION. Section 32: LIGHTING ALLOWANCE: PER SPECIFIC AREA.

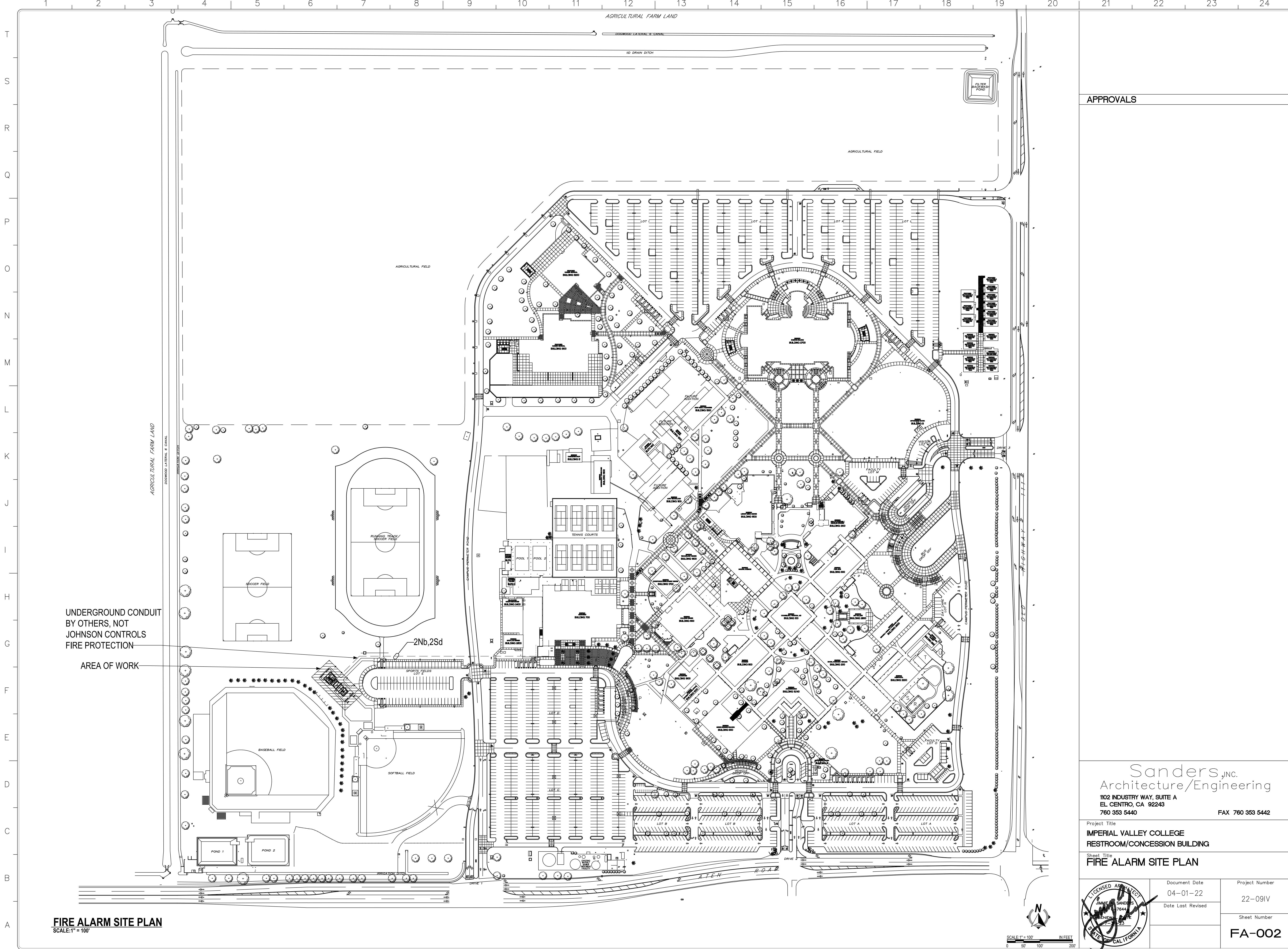
OUTDOOR LIGHTING - CALIFORNIA ENERGY COMMISSION. CERTIFICATE OF COMPLIANCE. Project Name: Imperial Valley College - Restroom & Concession Building. Section: 33. LIGHTING ALLOWANCE: PER APPLICATION. Section 34: LIGHTING ALLOWANCE: PER SPECIFIC AREA.



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Project Title: IMPERIAL VALLEY COLLEGE RESTROOM/CONCESSION BUILDING. Sheet Title: TITLE 24.

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UNDERGROUND CONDUIT
BY OTHERS, NOT
JOHNSON CONTROLS
FIRE PROTECTION

AREA OF WORK

2Nb.2Sd

FIRE ALARM SITE PLAN
SCALE: 1" = 100'

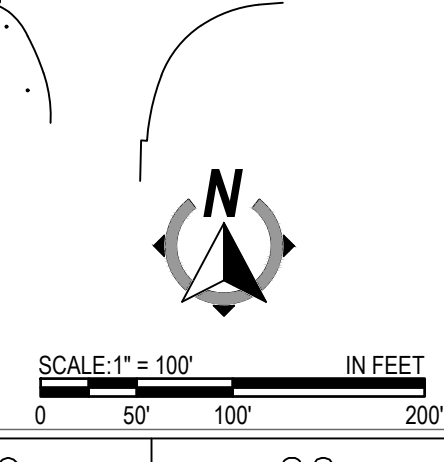
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Project Title
**IMPERIAL VALLEY COLLEGE
RESTROOM/CONCESSION BUILDING**

Sheet Title
FIRE ALARM SITE PLAN

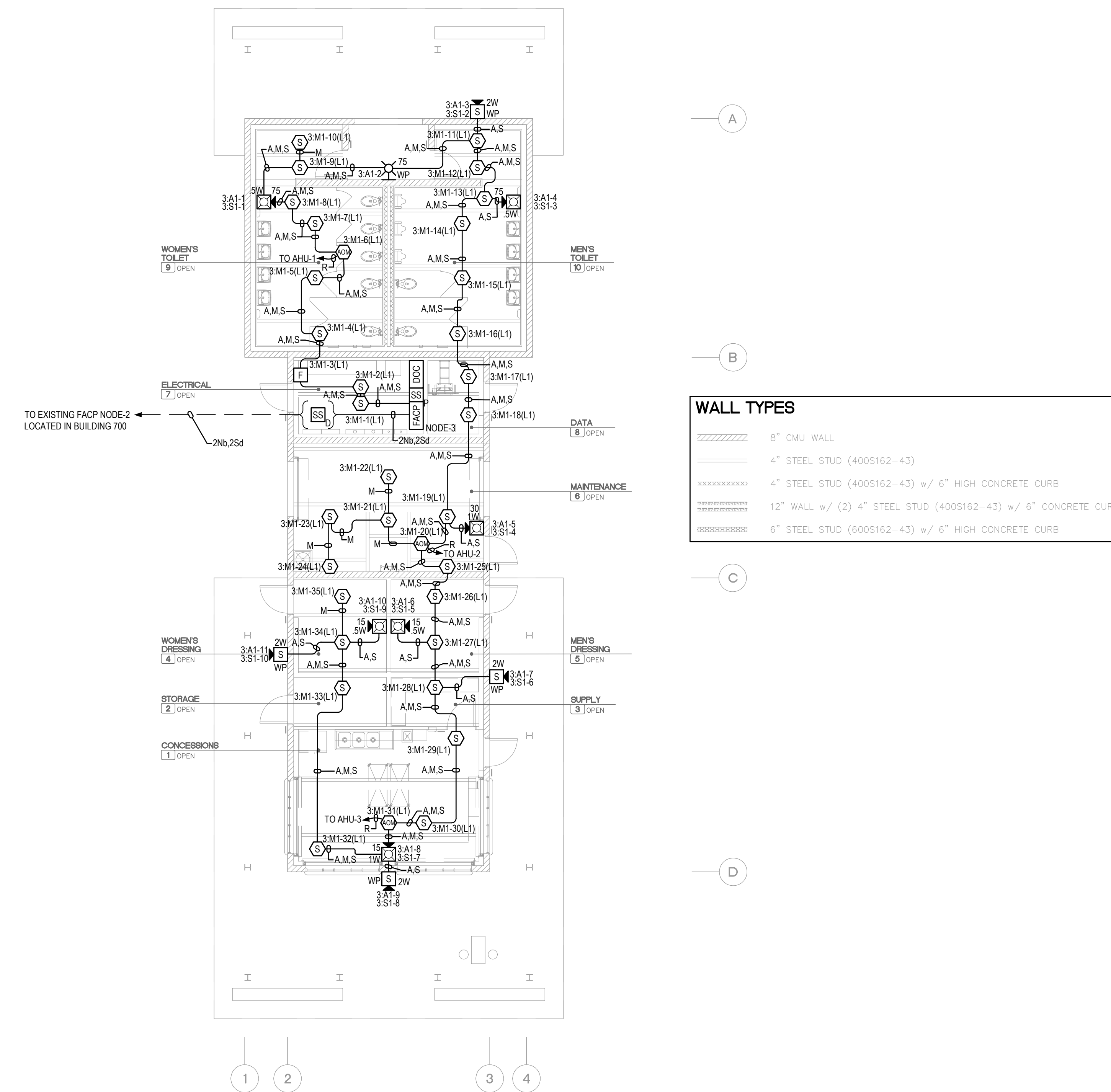
	Document Date	Project Number
	Date Last Revised	22-091V
		Sheet Number
		FA-002



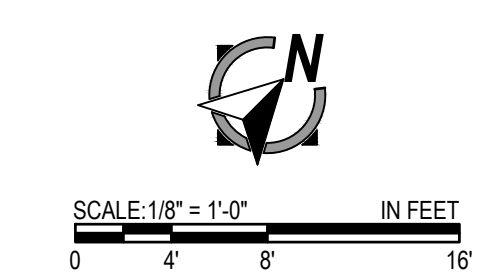
GENERAL NOTES:

1. ALL CEILINGS ARE ASSUMED TO BE 11'-9" WITH 14" BEAMS AS SHOWN ON FLOOR PLANS UNLESS NOTED OTHERWISE.
2. TAP ALL SPEAKERS AT 0.5W UNLESS NOTED OTHERWISE.
3. SET ALL SPEAKER VOLTAGE JUMPERS TO THE 70.7V SETTING.
4. THE DEVICE ADDRESSES INDICATED ON THESE DRAWINGS ARE AN ALPHANUMERIC DESCRIPTION OF WHICH CIRCUIT THE DEVICE IS LOCATED ON. DEVICES MAY BE ASSIGNED A DIFFERENT NUMBER WITHIN THE PANEL PROGRAM. CONSULT WITH A JOHNSON CONTROLS TECHNICIAN BEFORE APPLYING A PHYSICAL LABEL TO ANY DEVICES.

APPROVALS



FIRE ALARM DEVICE PLACEMENT PLAN
SCALE: 1/8" = 1'-0"

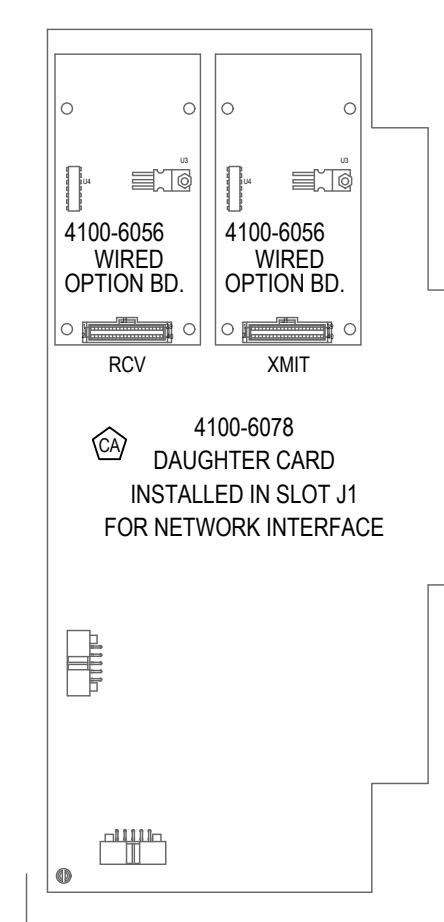
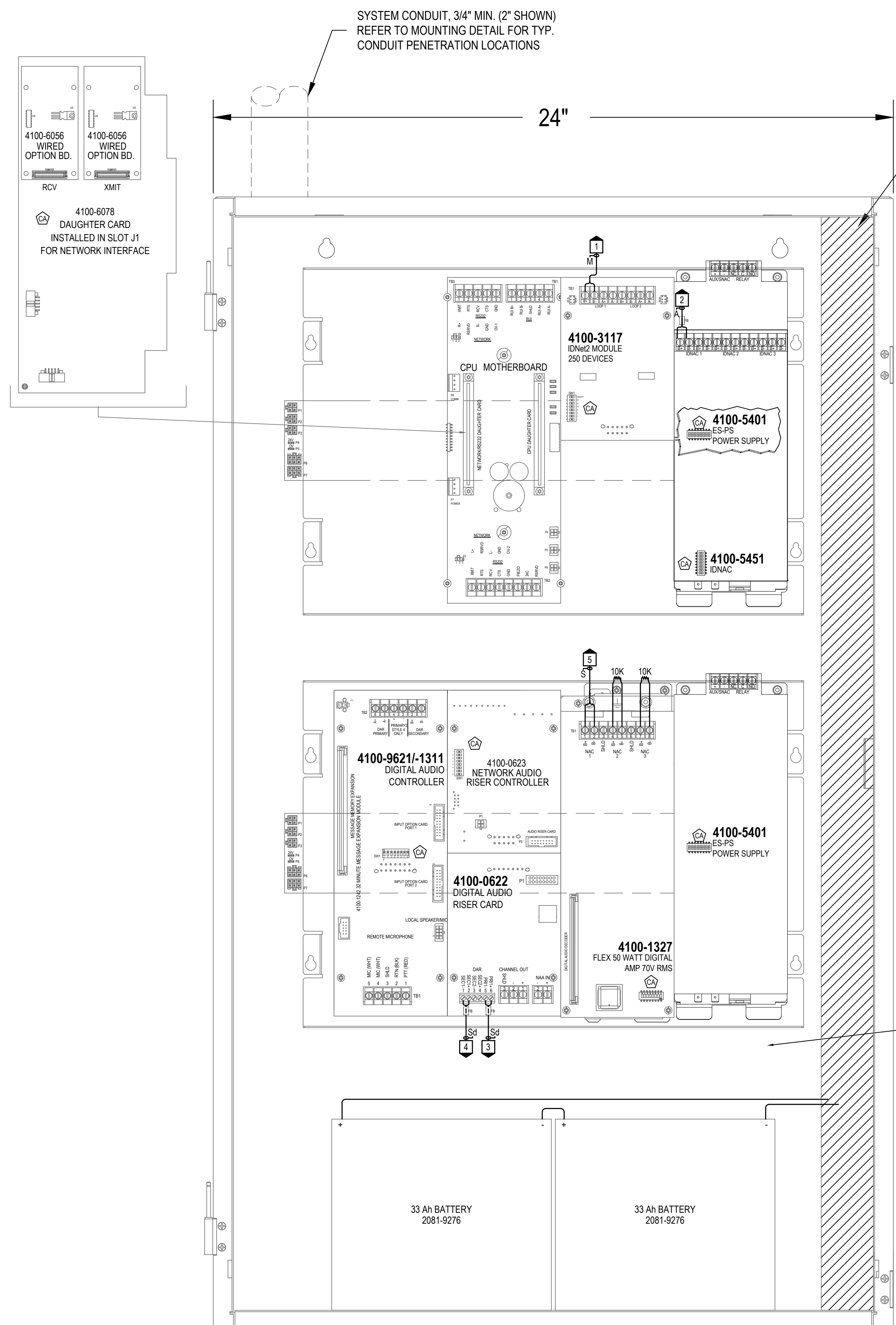
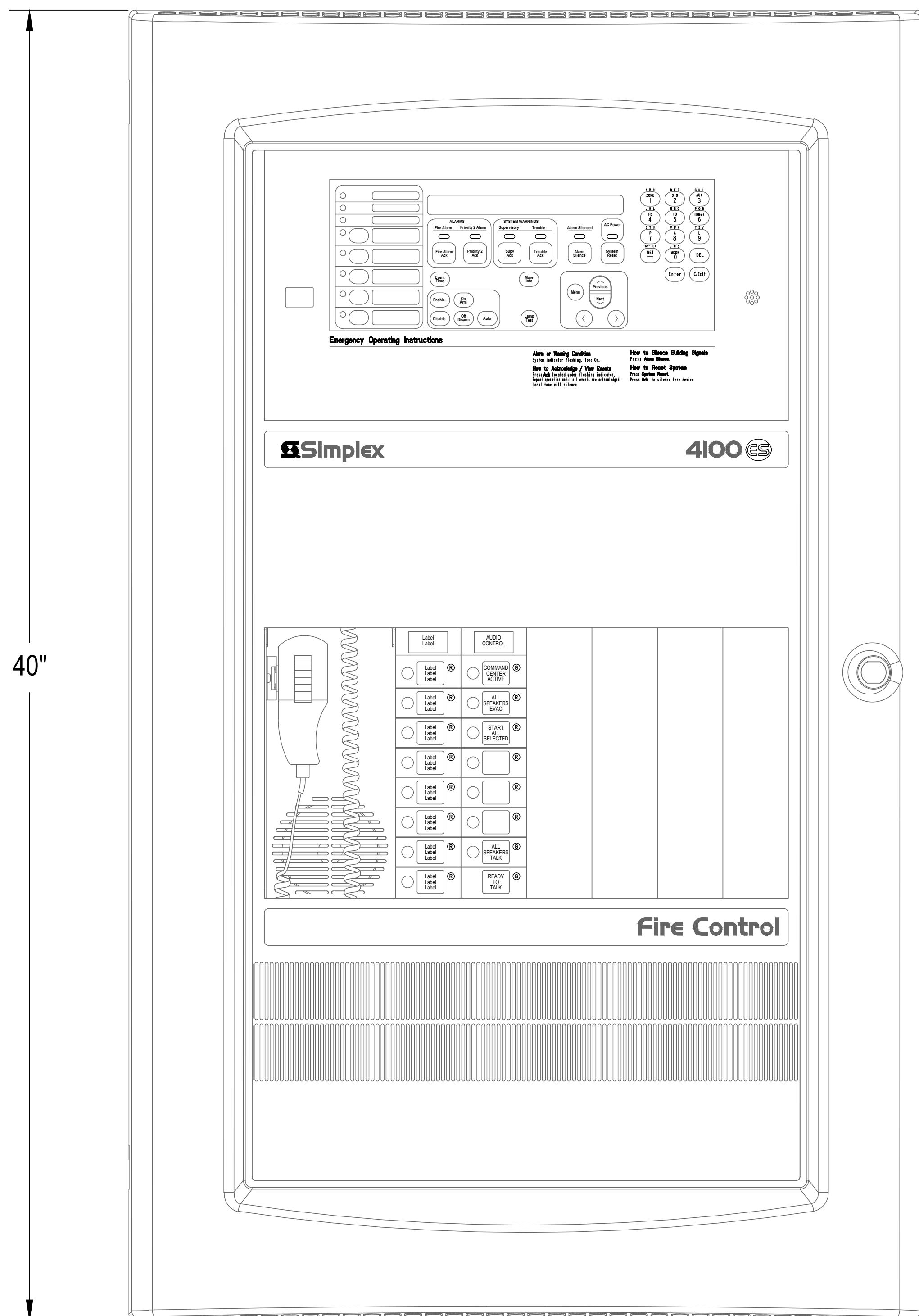


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Sheet Title
FIRE ALARM DEVICE PLACEMENT PLAN

	Document Date 04-01-22	Project Number 22-09IV
	Date Last Revised	Sheet Number FA-101



SYSTEM CONDUIT, 3/4" MIN. (2" SHOWN)
REFER TO MOUNTING DETAIL FOR TYP.
CONDUIT PENETRATION LOCATIONS

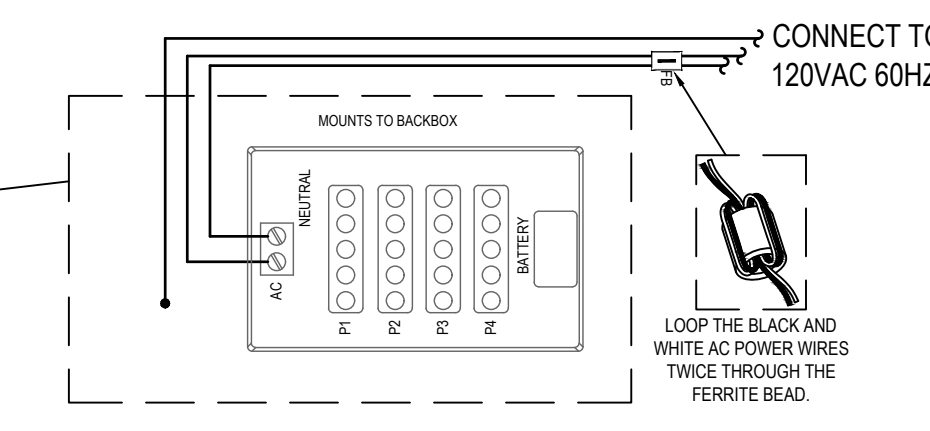
DO NOT LOCATE POWER-LIMITED WIRING IN THE SHADED AREAS OF THE BACKBOX. THIS AREA IS RESERVED FOR NON-POWER LIMITED CIRCUITRY SUCH AS AC POWER, BATTERIES AND CITY CONNECTION.

BAY 1 TERMINATIONS

TERMINATION NUMBER	CIRCUIT LABEL	CKT DESCRIPTION	WIRE
1	3.M1(L)	RESTROOM AND CONCESSION INITIATION	M
2	3.A1	RESTROOM AND CONCESSION NOTIFICATION	A

BAY 2 TERMINATIONS

TERMINATION NUMBER	CIRCUIT LABEL	CKT DESCRIPTION	WIRE
1	3	AUDIO RISER FROM FACP NODE 2 - BUILDING 700	Sd
2	3	AUDIO RISER TO FACP NODE 2 - BUILDING 700	Sd
3	3.S1	RESTROOM AND CONCESSION SPEAKERS	S



NOTE: MECHANICALLY PROTECTED BRANCH CIRCUIT (LOCK ON DEVICE). THE CIRCUIT DISCONNECTING MEANS SHALL HAVE A RED MARKING, AND BE IDENTIFIED AS "FIRE ALARM CIRCUIT". INSTALL 120 VAC SURGE PROTECTOR AS SHOWN ON FA-701 DETAIL "J".

FIRE ALARM CONTROL PANEL
CABINET #1 - RESTROOM AND CONCESSION
ELECTRICAL 7

SCALE: NTS

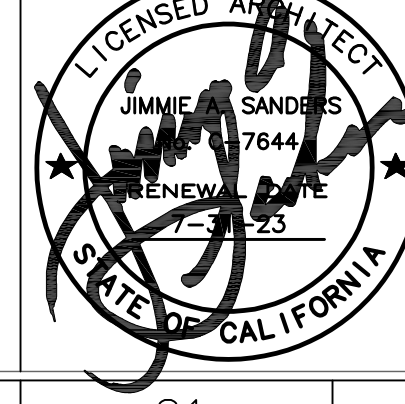
FIRE ALARM PANEL DETAIL
SCALE: N.T.S.

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FIRE ALARM PANEL DETAIL



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FA-501

Module	Qty	Description	Standby Current	Total Standby	Alarm Current	Total Alarm
Panel Equipment						
4100-9701	1	ES PS Master Controller - English	0.2770	0.2770	0.3210	0.3210
4100-0644	2	120 VAC PDM HARNESS	0.0000	0.0000	0.0000	0.0000
4100-0634	1	POWER DISTRIBUTION MODULE 120V	0.0000	0.0000	0.0000	0.0000
4100-5401	1	ES Power Supply Only	0.0690	0.0690	0.0770	0.0770
4100-5451	1	IDNAC Card	0.1240	0.1240	0.2300	0.2300
4100-1227	1	DIGITAL FLEX 50W AMP W/3 WACS - 70V	0.0850	0.0850	2.2700	2.2700
4100-9821	1	BASIC AUDIO WITH MICROPHONE - DIGITAL	0.0875	0.0875	0.3630	0.3630
4100-1242	1	MESSAGE EXPANSION BOARD - 32 MINUTES	0.0020	0.0020	0.0170	0.0170
4100-1255	1	3-8 CHANNEL AUDIO OPERATOR INTERFACE	0.0000	0.0000	0.0240	0.0240
4100-1280	1	8 SWITCH, 8 RED LED MODULE	0.0000	0.0000	0.0240	0.0240
4100-6078	1	NETWORK IF CARD, MODULAR	0.0460	0.0460	0.0460	0.0460
4100-6056	2	NETWORK MEDIA CARD WIRED	0.0550	0.1100	0.0550	0.1100
4100-1288	1	6464 LEDSWITCH CONTROLLER	0.0200	0.0200	0.2120	0.2120
4100-1279	4	2" BLANK DISPLAY MODULE	0.0000	0.0000	0.0000	0.0000
4100-0623	1	NETWORK AUDIO RISER MODULE	0.0350	0.0350	0.0350	0.0350
4100-0622	1	DIGITAL AUDIO RISER MODULE	0.0700	0.0700	0.0700	0.0700
Panel Totals			0.8245	0.8245	3.7990	3.7990

IDNet Addressable Devices (SLC)	Setting	Standby Current	Alarm Current
4090-9010	3	8 AMP RELAY IAM	0.0000
4098-9714	31	TRUEALARM PHOTO SMOKE SENSOR	0.0000
4098-9792	31	TRUEALARM SENSOR BASE	0.0000
4099-9021	1	ADDRESSABLE SINGLE ACTION NO GRIP PULL STATION	0.0000
Total IDNet Device Current:		0.0000	0.0000
IDNac Current Boost for 29vdc Regulated Output**		0.0000	0.3388
Peripheral Totals		0.0000	0.3388
Address Totals		35 Addresses	0.0280
System Totals*		Standby	Alarm
		0.9613	4.7666

2. Backup Amplifier assumes Main Amplifier alarm current on failure.

Battery Set #1 (Cabinet/Charger #1)	Standby Current	Standby Total	Alarm Current	Alarm Total
Select ALL Power Supplies on this battery set:				
ESPS-1		0.7803		2.0460
ESPS-2		0.1530		2.3470
Sub Total		0.9333		4.3930
Additional Current Draws:				
IDNac Current Boost for 29vdc Regulated Output**				0.3388
RUI Connected Peripheral Devices	0	x 0.0035	= 0.0000	x 0.0035 = 0.0000
MAPNET/IDNet Device Address Communication Current	35	x 0.000800	= 0.0280	x 0.001000 = 0.0350
Sub Total		0.9613		4.7666
Spare addressable point capacity	0%	0	x 0.0008	= 0.0000
Total		0.9613		4.7666
Standby Time = 24 Hrs		x 0.9613	= 23.0712	Standby Ah
Alarm Time = 15 Min		0.25 x 4.7666	= 1.1917	Alarm Ah
Additional Spare Battery Capacity = 0%				24.2629
				0.0000
				24.2629
Battery Discharge Factor = 20%				4.8526
Minimum Battery Required 2081-9276 33AH (2x)				29.1154
Battery Supplied 2081-9276 33AH (2x)				

** IDNac Current Boost formula: ((29.5 * IDNac Alarm Current) / 92) / 20.4 = Adjusted Current
DC-DC Converter Output = 29.5vdc. Terminal Output is 29vdc due to 0.5vdc internal loss.
Converter Worst Case efficiency is 92%. 20.4vdc represents battery output in 85% depleted state.

IVC RESTROOM CONCESSION BUILDING FACP NODE-3 4100es FACP Speaker Db Loss Calculations																		
*Circuit Voltage = 70vrms [E]																		
SPEAKER CIRCUIT DESCRIPTION	Plan Circuit Number	Speaker Tap	Speaker Tap	Speaker Tap	Speaker Tap	Speaker Tap	Total Spkr per Circuit	Total Watts [P]	Wire Gauge	Ext. Ch. Length [D] in	Wire Res. Per Foot [Rw]	Circuit Resistance [R=2D*Rw]	Speaker Current [I=Pe/IE]	Speaker Resistance [Ra=Ex]	Voltage At End [Ea=(E-Ra)*I]	Watts At End [Pa=(Ea)*I]	Actual dB Loss [dB=10Log10(Pe/Pa)]	Max Allowable Ch. Length [Ma=(0.414*Ra)]
RESTROOM AND CONCESSION	3-S1	4	2	4			10	12 Watts	18ga	450	0.0071	6.420	0.171	408.333	88.915	11.631	-14 dB	11834 Ft
SPARE	3-S3							. Watts	18ga		0.0071	0.000	0.000	0.000	0.000	0.000	.db	0 Ft

IDNET CHANNEL 3-M1											
Address	Device Type	Point Type	Location Description	SWITCH SETTINGS							
				1	2	3	4	5	6	7	8
3-M1-1	PHOTO	SMOKE	ELECTRICAL 7	3-M1-1	X						OW
3-M1-2	PHOTO	SMOKE	ELECTRICAL 7	3-M1-2	X						OW
3-M1-3	ADRPUL	PULL	ELECTRICAL 7	3-M1-3	X						OW
3-M1-4	PHOTO	SMOKE	WOMEN'S TOILET 9	3-M1-4	X						OW
3-M1-5	PHOTO	SMOKE	WOMEN'S TOILET 9	3-M1-5	X						OW
3-M1-6	RIAM	RELAY	WOMEN'S TOILET 9 AHU-1	3-M1-6	X	X					OW
3-M1-7	PHOTO	SMOKE	WOMEN'S TOILET 9	3-M1-7	X	X					OW
3-M1-8	PHOTO	SMOKE	WOMEN'S TOILET 9	3-M1-8	X						OW
3-M1-9	PHOTO	SMOKE	WOMEN'S TOILET 9	3-M1-9	X	X					OW
3-M1-10	PHOTO	SMOKE	WOMEN'S TOILET 9	3-M1-10	X	X					OW
3-M1-11	PHOTO	SMOKE	MEN'S TOILET 10	3-M1-11	X	X					OW
3-M1-12	PHOTO	SMOKE	MEN'S TOILET 10	3-M1-12	X	X					OW
3-M1-13	PHOTO	SMOKE	MEN'S TOILET 10	3-M1-13	X	X					OW
3-M1-14	PHOTO	SMOKE	MEN'S TOILET 10	3-M1-14	X	X	X				OW
3-M1-15	PHOTO	SMOKE	MEN'S TOILET 10	3-M1-15	X	X	X				OW
3-M1-16	PHOTO	SMOKE	MEN'S TOILET 10	3-M1-16	X	X	X				OW
3-M1-17	PHOTO	SMOKE	DATA 8	3-M1-17	X	X					OW
3-M1-18	PHOTO	SMOKE	DATA 8	3-M1-18	X	X					OW
3-M1-19	PHOTO	SMOKE	MAINTENANCE 6	3-M1-19	X	X					OW
3-M1-20	RIAM	RELAY	MAINTENANCE 6 AHU-2	3-M1-20	X	X					OW
3-M1-21	PHOTO	SMOKE	MAINTENANCE 6	3-M1-21	X	X					OW
3-M1-22	PHOTO	SMOKE	MAINTENANCE 6	3-M1-22	X	X					OW
3-M1-23	PHOTO	SMOKE	MAINTENANCE 6	3-M1-23	X	X					OW
3-M1-24	PHOTO	SMOKE	MAINTENANCE 6	3-M1-24	X	X					OW
3-M1-25	PHOTO	SMOKE	MAINTENANCE 6	3-M1-25	X	X					OW
3-M1-26	PHOTO	SMOKE	MEN'S DRESSING 5	3-M1-26	X	X	X				OW
3-M1-27	PHOTO	SMOKE	MEN'S DRESSING 5	3-M1-27	X	X	X				OW
3-M1-28	PHOTO	SMOKE	SUPPLY 3	3-M1-28	X	X	X				OW
3-M1-29	PHOTO	SMOKE	CONCESSIONS 1	3-M1-29	X	X	X				OW
3-M1-30	PHOTO	SMOKE	CONCESSIONS 1	3-M1-30	X	X	X				OW
3-M1-31	RIAM	RELAY	CONCESSIONS 1 AHU-3	3-M1-31	X	X	X				OW
3-M1-32	PHOTO	SMOKE	CONCESSIONS 1	3-M1-32	X	X	X				OW
3-M1-33	PHOTO	SMOKE	STORAGE 2	3-M1-33	X	X					OW
3-M1-34	PHOTO	SMOKE	WOMEN'S DRESSING 4	3-M1-34	X	X					OW
3-M1-35	PHOTO	SMOKE	WOMEN'S DRESSING 4	3-M1-35	X	X					OW
3-M1-36	SPARE	THRU 3-M1-125		3-M1-36	X	X					OW
3-M1-125	SPARE			3-M1-125	X	X	X				OW

NOTE: THE LABELS SHOWN ABOVE WILL BE USED FOR PROGRAMMING PURPOSES.
THE LABELS ARE BASED UPON INFORMATION SHOWN ON THE ARCHITECTURAL DRAWINGS.
ANY CHANGES TO THESE LABELS MUST BE NOTED ON THE SUBMITTAL REVIEW, PRIOR TO PROGRAMMING.
POINTS SHOWN IN ITALIC TEXT REFER TO EXISTING DEVICES.

IVC RESTROOM CONCESSION BUILDING FACP NODE-3 - IDNAC-1 CIRCUIT SUMMARY & VOLTAGE DROP							
Circuit	Description	Alarm Current	% Drop	Unit Load*	Wires Length	Spare Current	Spare VoltageDrop
3:A1	RESTROOM AND CONCESSION	0.594A	1.67%	11	346	80%	92%
3:A2	SPARE	0.000A	0.00%	0	0	100%	100%
3:A3	SPARE	0.000A	0.00%	0	0	100%	100%

3:A1 Notification SLC Distributed Load Voltage Drop			
Starting Voltage:	29vdc	Primary Wire Gauge:	14ga
Min. Device Voltage:	23 vdc	Home Run Wire Gauge:	14ga
Allowable % Drop:	20.7%	Wire Res. Per Ft:	0.00292 @ 50° Celsius
		Wire Res. Per Ft:	0.00282 @ 50° Celsius

Class B Calculations										
Branch	Device #	From	Distance (Feet)	PID	Setting	Device Draw	Current at Device	Voltage Drop	Voltage at Device	% Vdrop Wire Length
1	3:A1-1	PANEL	49	49SV-APPLW	75cd	0.1000	0.594	0.164	28.836	Branch 1: 1.67% Length: 346
1	3:A1-2	3:A1-1	27	49VO-WRFO	75cd	0.1600	0.494	0.075	28.760	
1	3:A1-3	3:A1-2	26	49SO-APPLW-O	15cd	0.0090	0.334	0.049	28.711	
1	3:A1-4	3:A1-3	24	49SV-APPLW	75cd	0.1000	0.325	0.044	28.667	
1	3:A1-5	3:A1-4	49	49SV-APPLW	30cd	0.0570	0.225	0.062	28.605	
1	3:A1-6	3:A1-5	29	49SV-APPLW	15cd	0.0470	0.168	0.027	28.578	
1	3:A1-7	3:A1-6	26	49SO-APPLW-O	15cd	0.0090	0.121	0.018	28.560	
1	3:A1-8	3:A1-7	41	49SV-APPLW	15cd	0.0470	0.112	0.025	28.534	
1	3:A1-9	3:A1-8	13	49SO-APPLW-O	15cd	0.0090	0.065	0.005	28.529	
1	3:A1-10	3:A1-9	38	49SV-APPLW	15cd	0.0470	0.056	0.012	28.517	
1	3:A1-11	3:A1-10	24	49SO-APPLW-O	15cd	0.0090	0.009	0.001	28.516	
						0.0000	0.000	0.000	0.000	

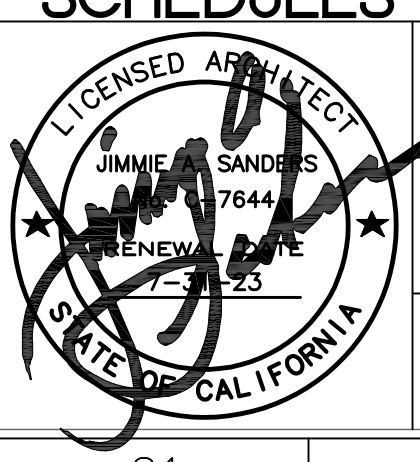
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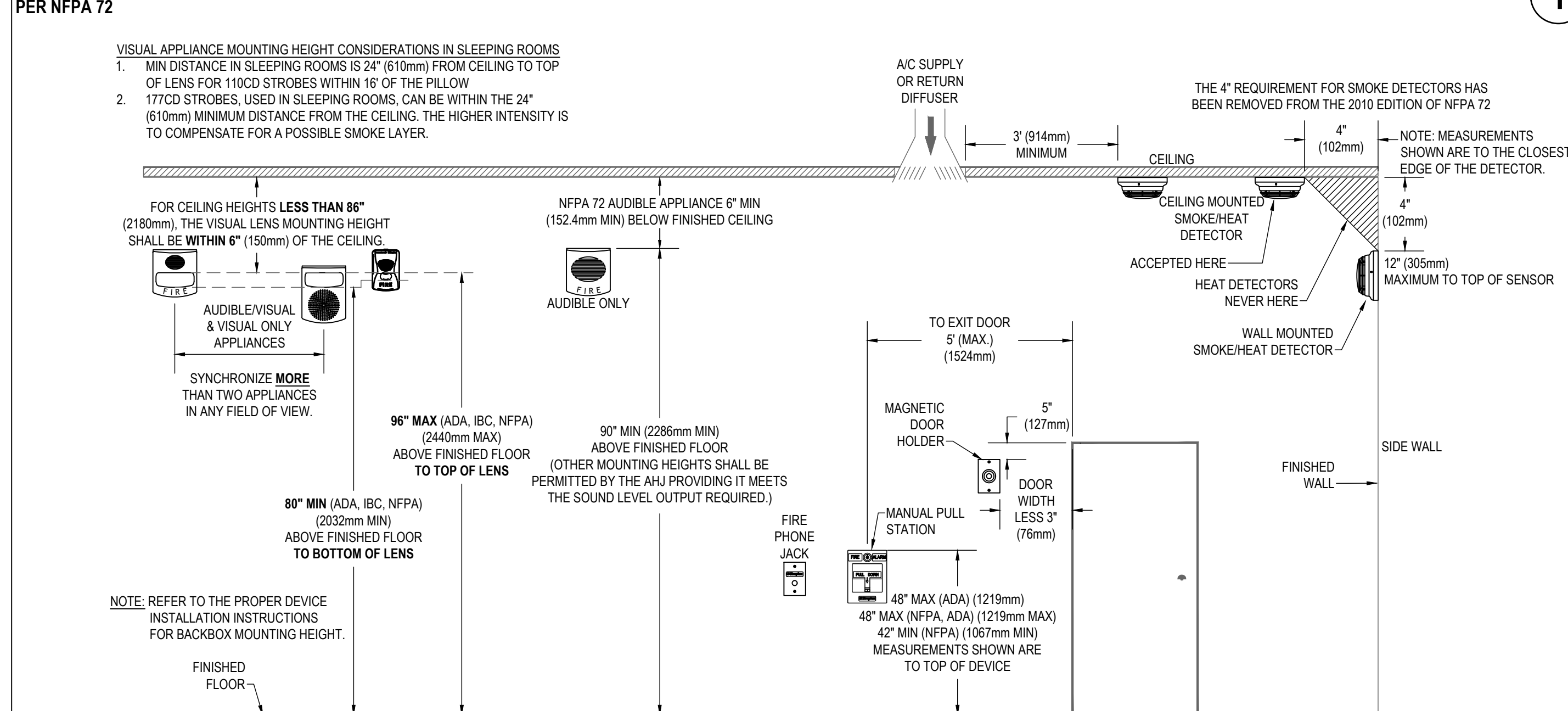
Project Title
**IMPERIAL VALLEY COLLEGE
RESTROOM/CONCESSION BUILDING**

Sheet Title
**FIRE ALARM CALCULATIONS AND
SCHEDULES**

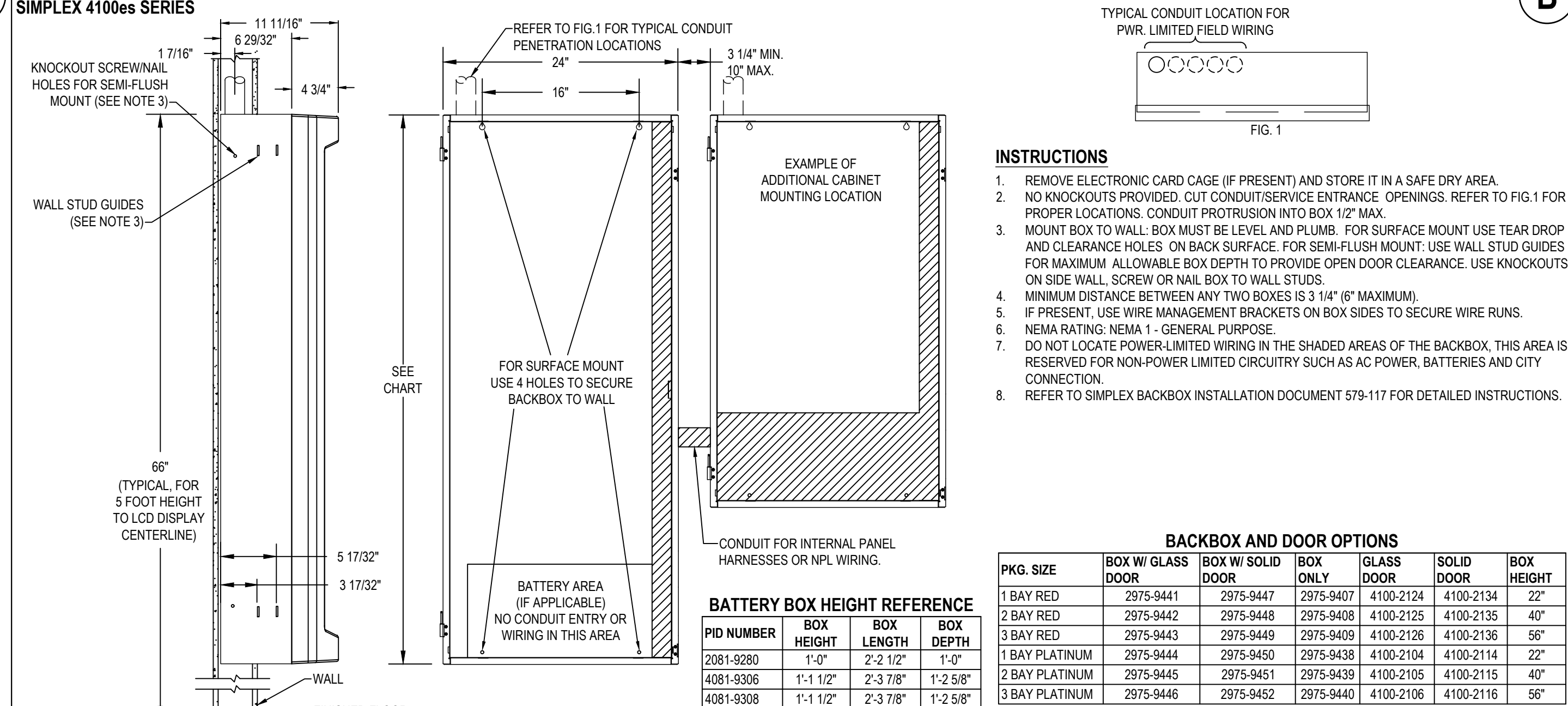
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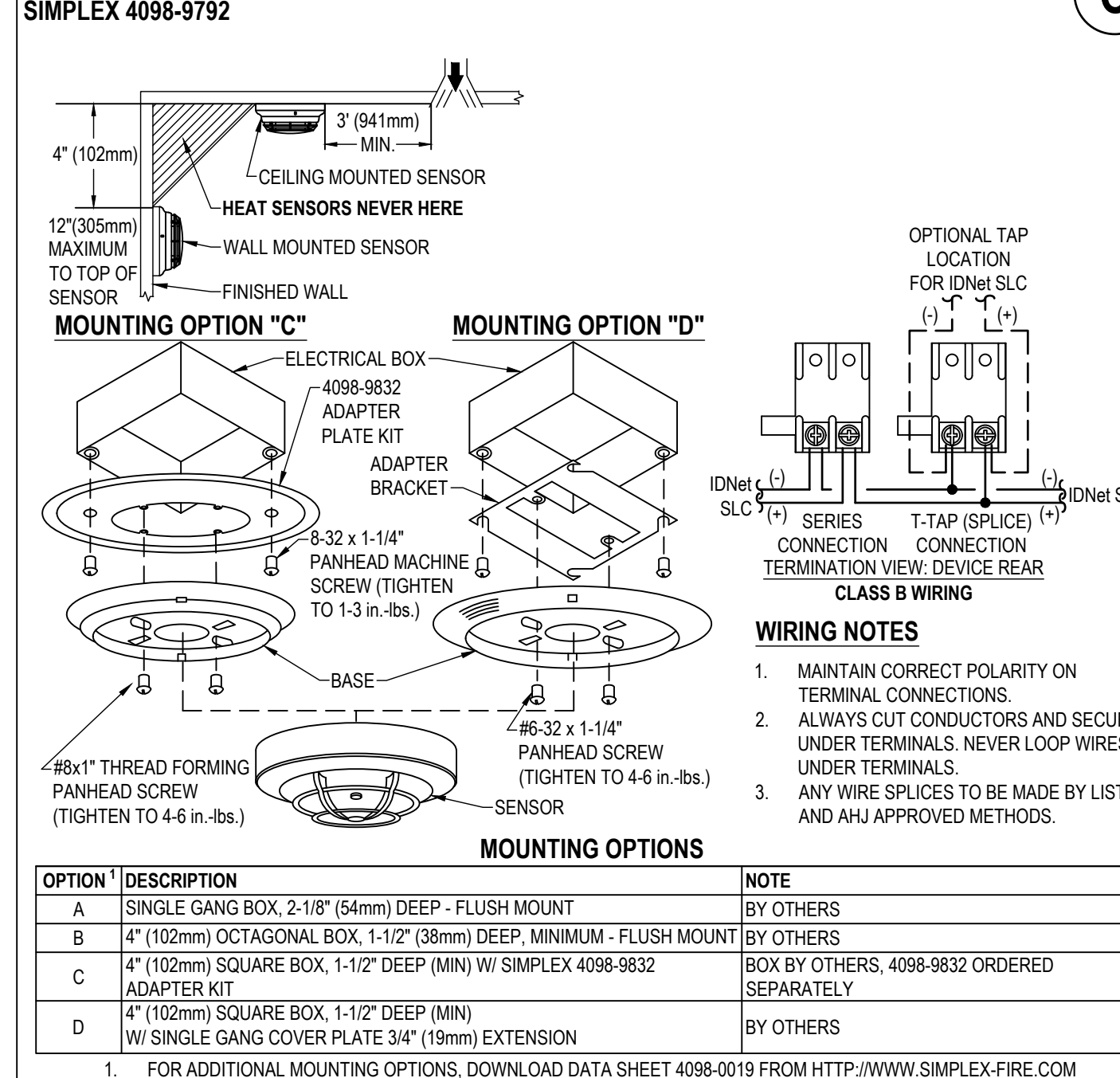
DEVICE MOUNTING HEIGHT REFERENCE



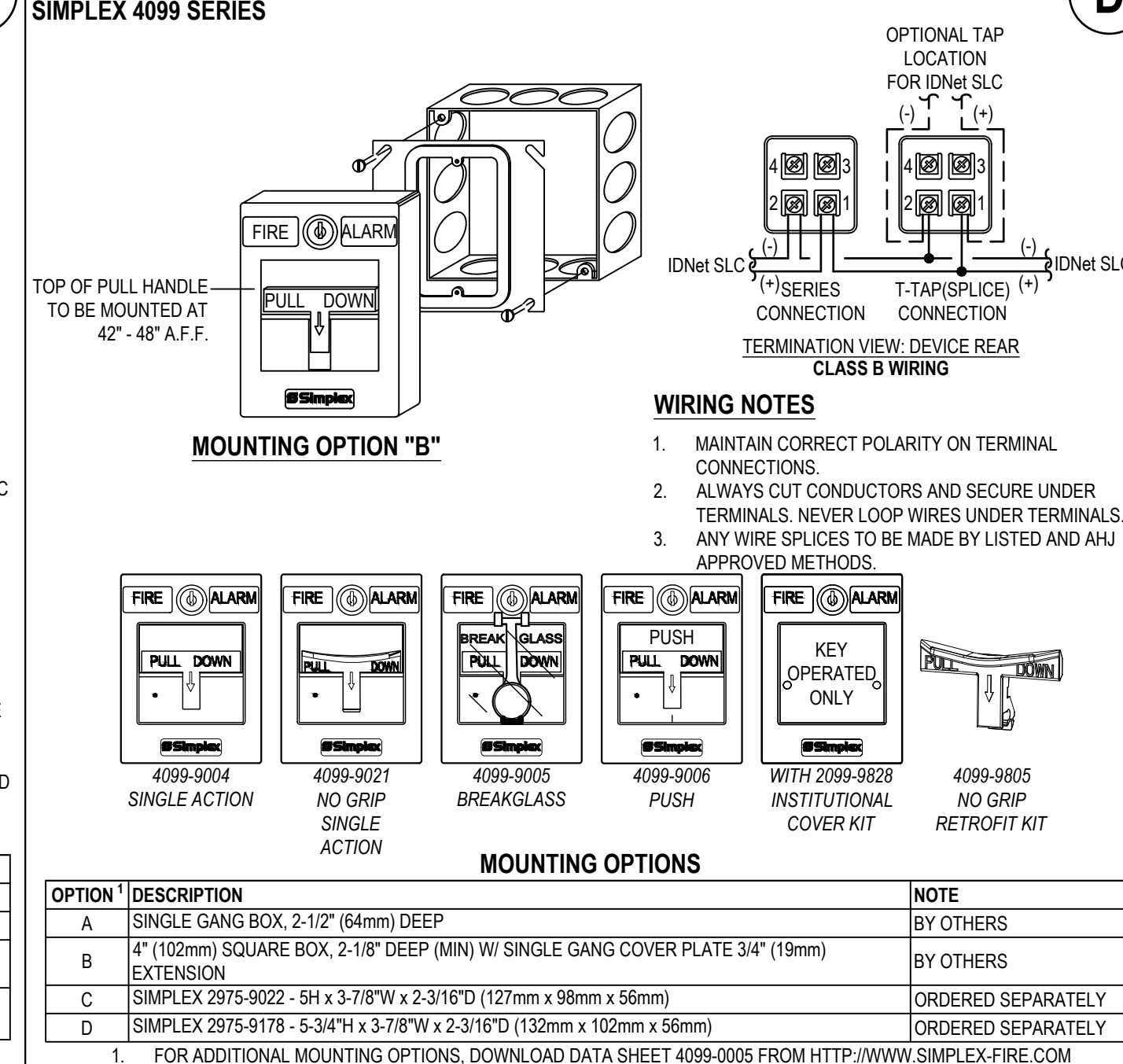
FIRE ALARM CONTROL PANEL BACKBOX INSTALLATION



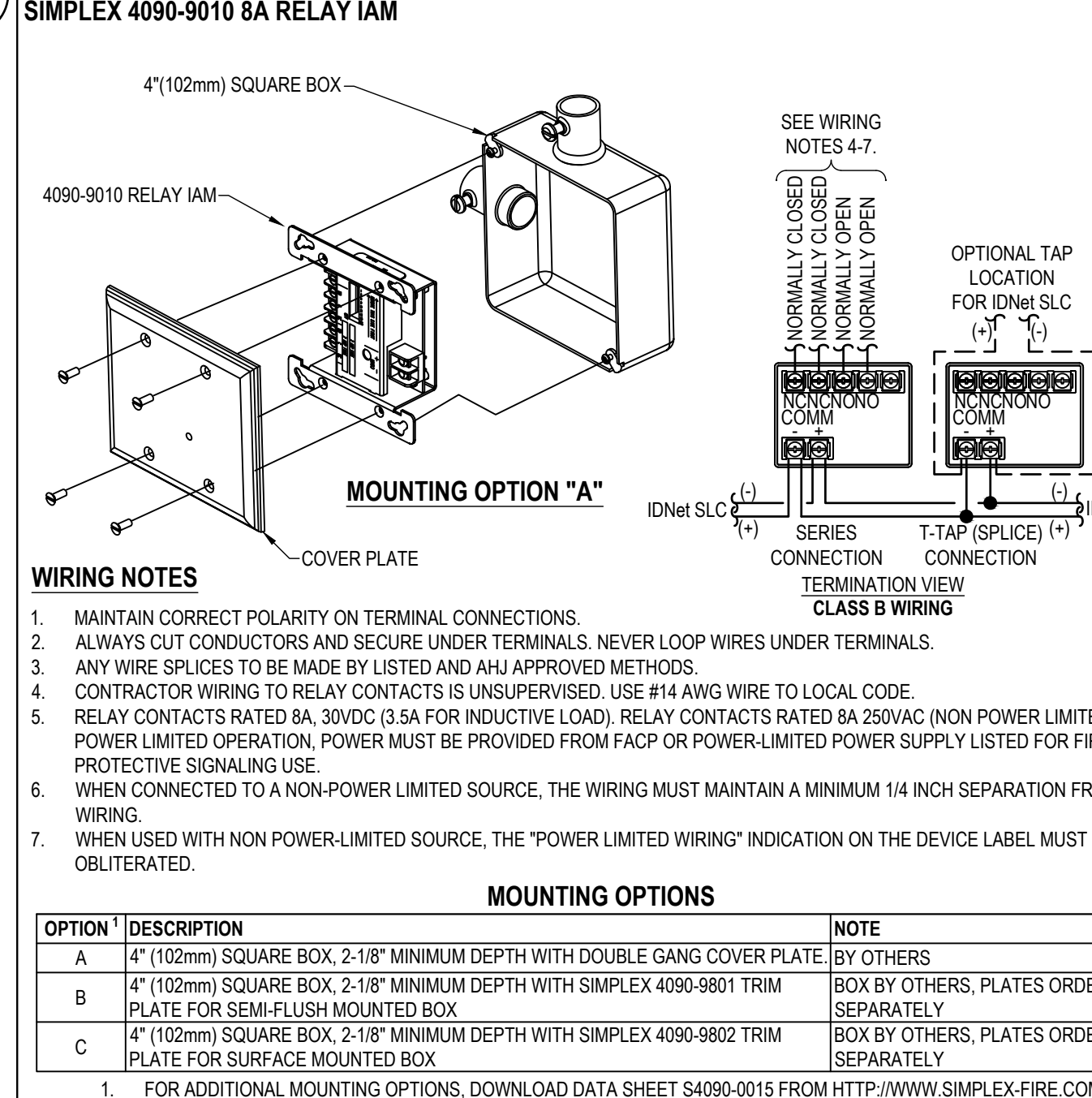
STANDARD SENSOR BASE



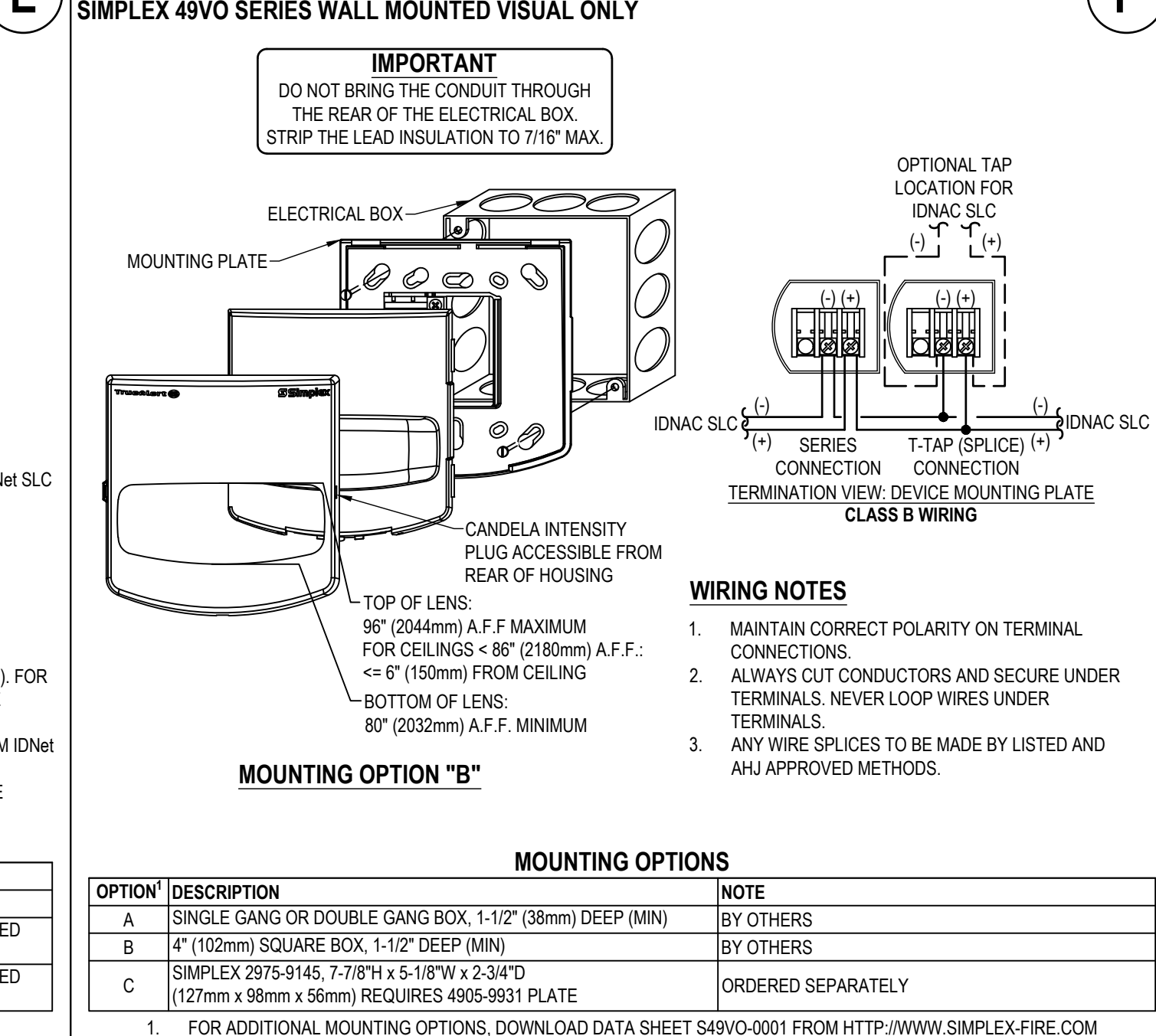
ADDRESSABLE PULL STATIONS



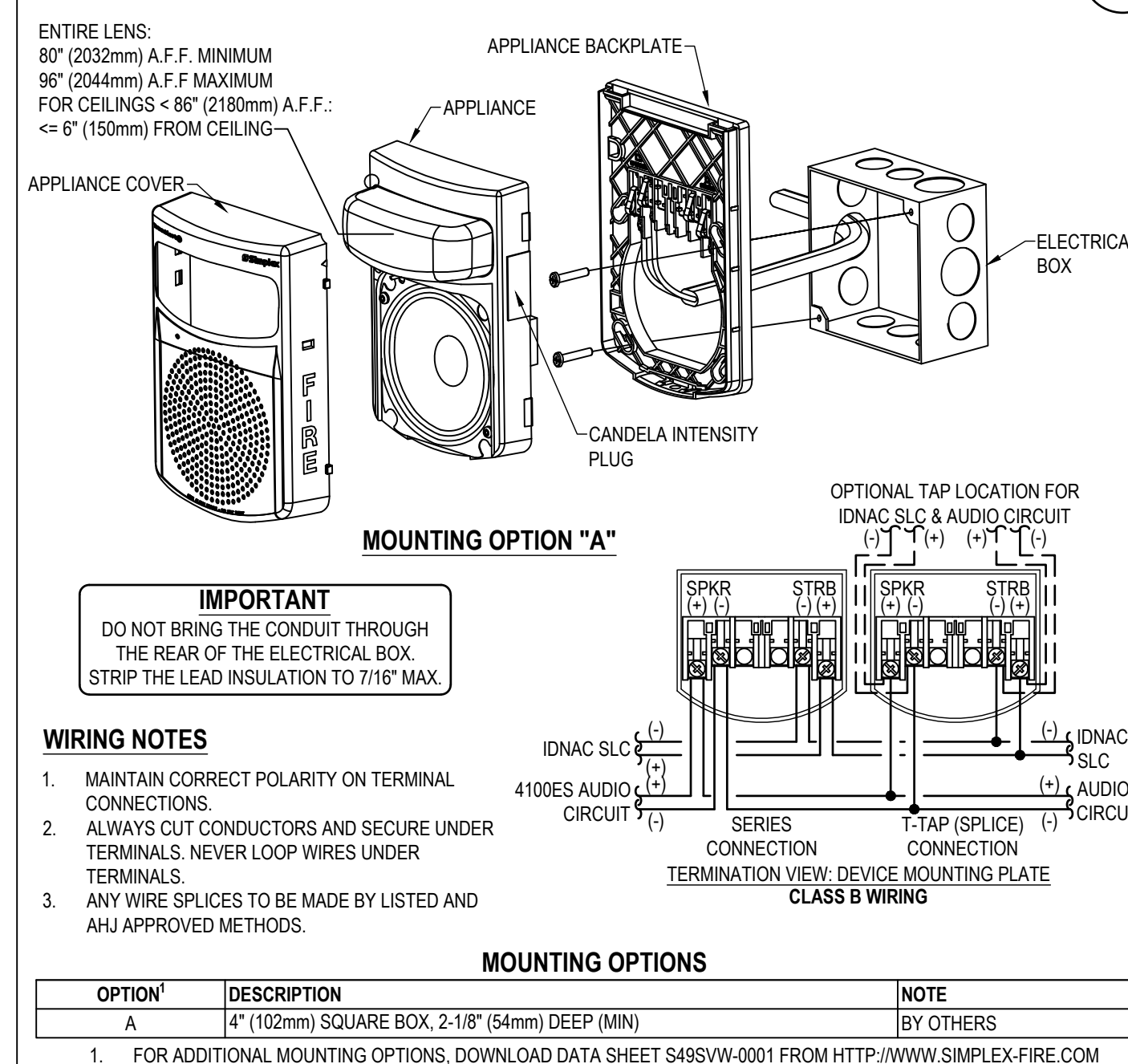
ADDRESSABLE OUTPUT MODULE (AOM)



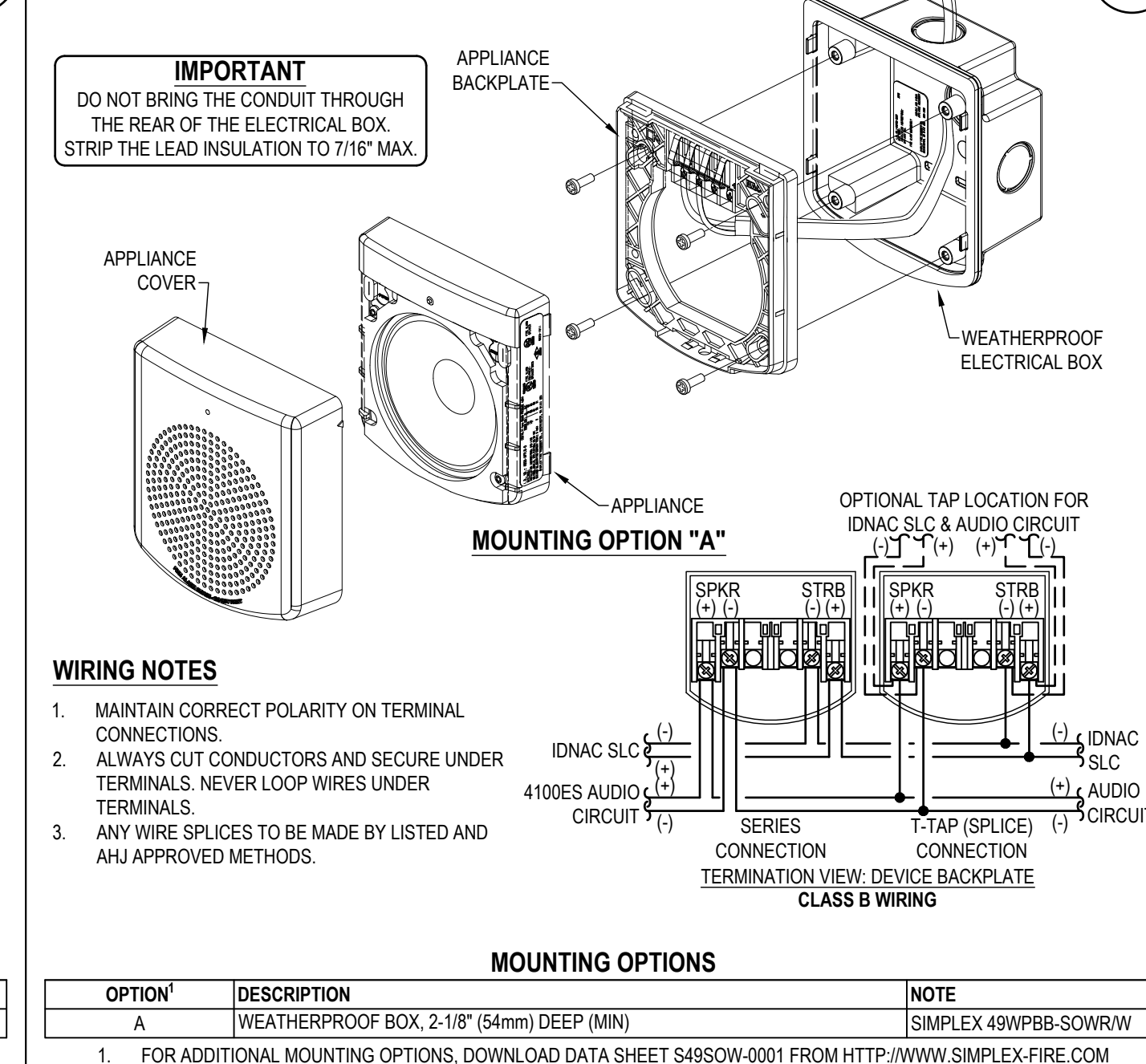
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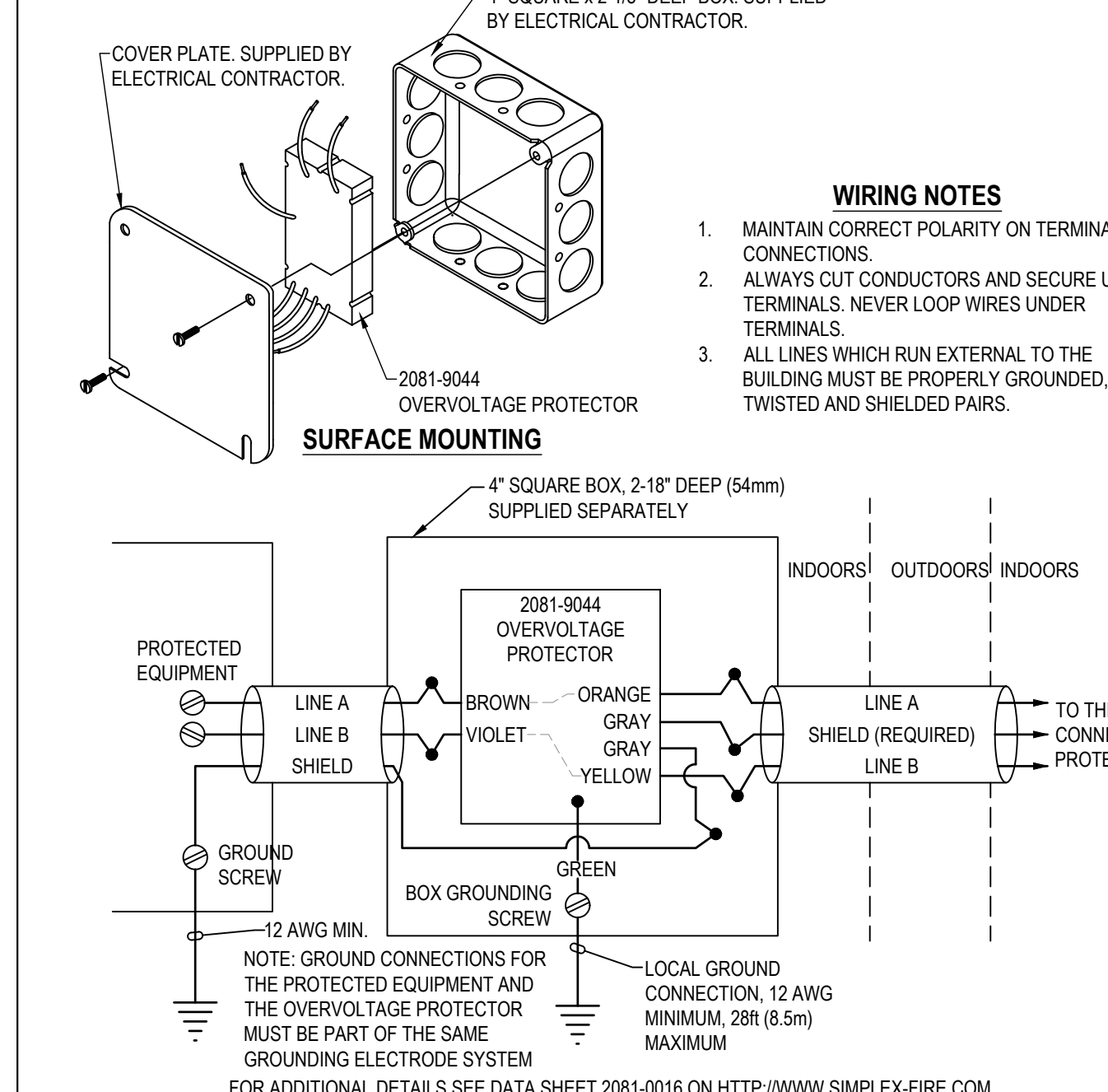
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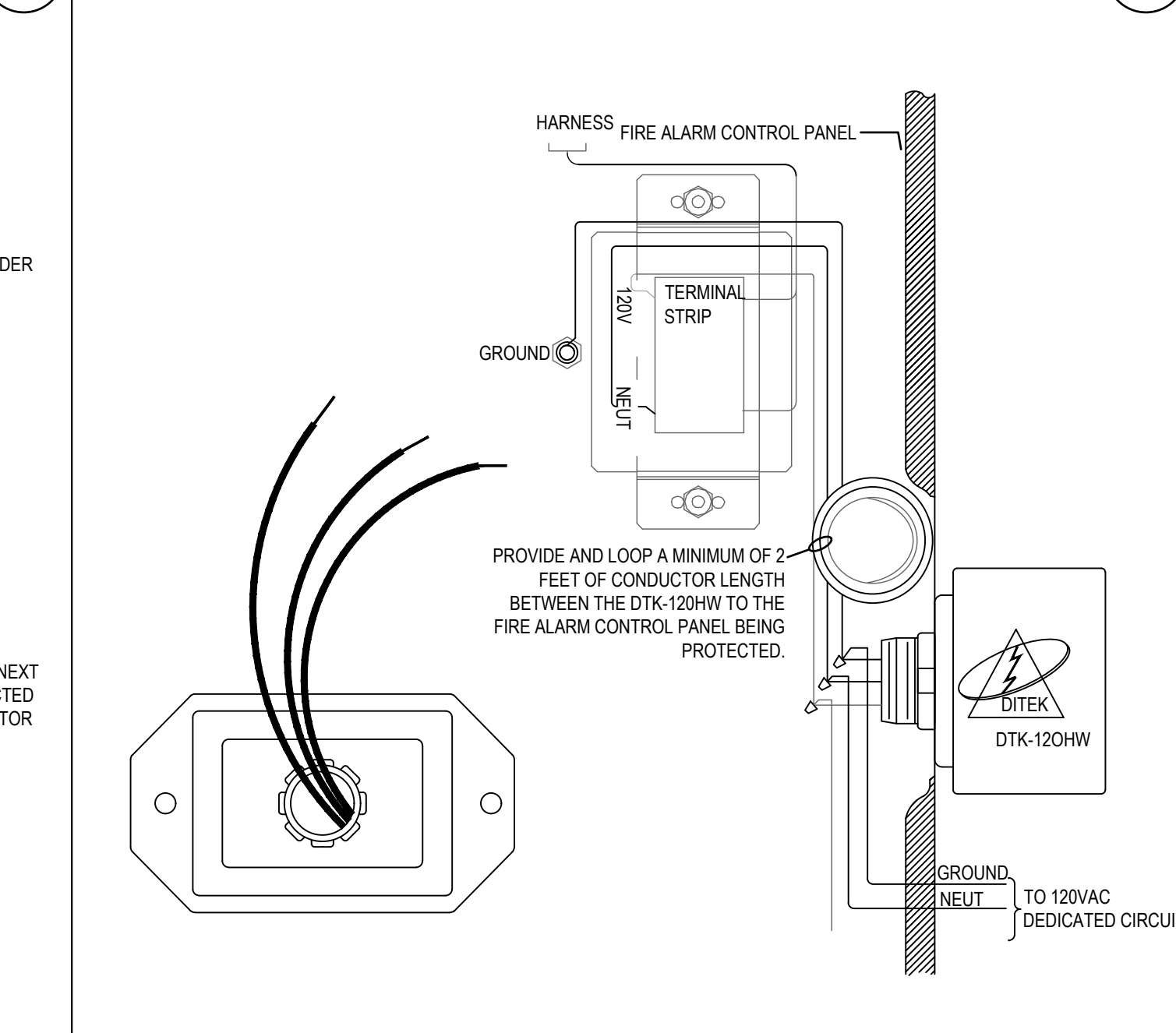
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OVERVOLTAGE PROTECTOR



PARALLEL CONNECTED SURGE PROTECTOR



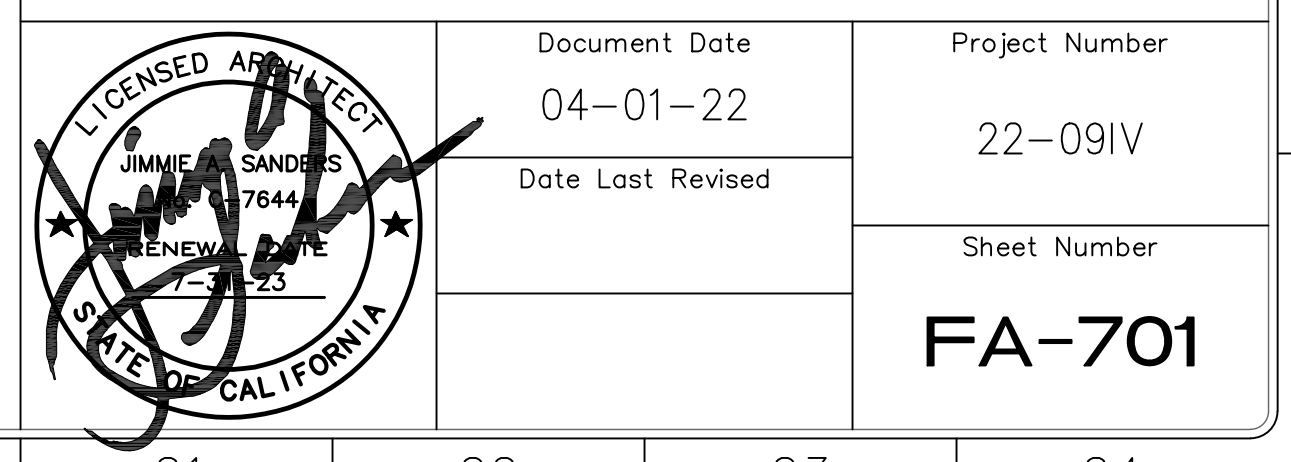
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Project Title
**IMPERIAL VALLEY COLLEGE
RESTROOM/CONCESSION BUILDING**

Sheet Title
FIRE ALARM WIRING TYPICALS

Document Date 04-01-22	Project Number 22-091V
Date Last Revised	Sheet Number FA-701



END OF LINE RESISTOR CODES

NOTE: REFER TO PANEL MODULE AND DEVICE INSTALLATION INSTRUCTIONS FOR PROPER TERMINATIONS.

MODEL NUMBER	REF. NUMBER	Ω	BAND NUMBER	WATTS	CIRCUIT TYPE	FIRE ALARM PANEL/MODULE
			3 2 3 4 5			
4081-9001	733-892	2.2K	RED RED GLD	N/A	ANNUNCIATOR (R300)	4004, 4010 (TROUBLE)
4081-9002	733-893	3.3K	ORG ORG RED GLD	N/A	N.O. INITIATING PULL, SMOKE, HEAT, WATERFLOW, TAMPER, ETC.	4004*, 4004R, 4005*, 4006, 4100, 4120, 4100U, ZAM6
4081-9003	733-896	4.7K	YEL VT RED GLD	N/A	24 PT. I/O SWITCH SUPV. CURRENT LIMITED N.O. INIT., NOTIFICATION (DACT)	4005-7401, 4100 SERIES, 4090 IDNET IAM (EOLR), 2080-8024
4081-9004	733-886	6.8K	BLU GRY RED GLD	N/A	N/O INITIATING PULL, SMOKE, HEAT, W.FLOW, TAMPER, ETC.	4004, 4006, 4090-9001 IDNET IAM, 2190-9170 MPMNET 2 PT. I/O, 4-20MA ZAM (TROUBLE)
4081-9005	733-984	1.8K	BRN GRY RED GLD	N/A	CURRENT LIMITED N.O. INITIATING (INLINE)	4090-9001 IDNET IAM
4081-9006	733-990	560	GRN BLU BRN GLD	N/A	N.C. INITIATING (EOLR)	4005*, 4090-9001 IDNET IAM, 4100, 4100U
4081-9007	733-891	1.2K	BRN RED RED GLD	N/A	N.C. INITIATING (EOLR)	4005
4081-9008	733-894	10K	BRN BLK ORG GLD	N/A	NOTIFICATION	4004, 4006, 4008, 4008, 4010, 4100, 4100U
4081-9009	733-912	20	RED BLK BLK GLD	N/A	TO MR-101 RELAY COIL	4005 8 POINT I/O
4081-9010	733-973	1K	BRN BLK RED GLD	N/A	N.C. INIT. (ACROSS CONTACTS) 24 PT. I/O (ACROSS CONTACTS) CURRENT LIMITED N.O. INIT. (IN SERIES WITH CONTACT)	4005*, 4090-9001 IDNET IAM, 4605-7401, 4100 SERIES, 4090-9001 IDNET IAM
4081-9011	733-974	100	BRN BLK BRN GLD	N/A	ANNUNCIATOR (N2)	4006, 4008, 4010
4081-9012	733-985	22K	RED RED ORG GLD	N/A	SPEAKER CIRCUIT	4003
4081-9013	734-086	4.99K	YEL VHT WHT BRN BRN	N/A		
4081-9014	734-092	2.4K	RED YEL RED GLD	N/A	N.C. INITIATING (SECURITY MONITORING EOLR)	4090-9001 IDNET IAM
4081-9015	734-093	1.5K	BRN GRN RED GLD	N/A	CURRENT LIMITED N.O. INIT. (SECURITY MONITORING EOLR)	4090-9001 IDNET IAM
4081-9016	734-149	150K	BRN GRN YEL GLD	N/A		
4081-9017	734-171	3.9K	ORG WHT RED GLD	N/A		
4081-9018	734-188	10K	BRN BLK ORG GLD	N/A	70VRMS CONSTANT SUPV. NAC	4100-1200
	378-990	8.2K	GRY RED RED GLD	N/A	SECURITY MONITORING (EOLR)	4100, 4100U
	378-946	5.9K	GRN BLU RED GLD	N/A	N.O. SECURITY MON. (SERIES)	4100, 4100U
	378-969	12K	BRN RED ORG GLD	N/A	N.C. SECURITY MON. (SHUNT)	4100, 4100U

*USE WITH RETROFIT OR HIGH CURRENT MODULE

2 DIP SWITCH SETTINGS - INITIATING

SIMPLEX IDNET

NOTE: ADDRESS SHOWN ABOVE IS 120. SEE NOTE.

DIP SWITCHES 5 THRU 8

Address	0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
Switch	1	17	33	49	65	81	97	113	129	145	161	177	193	209	225	241
Switch	2	18	34	50	66	82	98	114	130	146	162	178	194	210	226	242
Switch	3	19	35	51	67	83	99	115	131	147	163	179	195	211	227	243
Switch	4	20	36	52	68	84	100	116	132	148	164	180	196	212	228	244
Switch	5	21	37	53	69	85	101	117	133	149	165	181	197	213	229	245
Switch	6	22	38	54	70	86	102	118	134	150	166	182	198	214	230	246
Switch	7	23	39	55	71	87	103	119	135	151	167	183	199	215	231	247
Switch	8	24	40	56	72	88	104	120	136	152	168	184	200	216	232	248
Switch	9	25	41	57	73	89	105	121	137	153	169	185	201	217	233	249
Switch	10	26	42	58	74	90	106	122	138	154	170	186	202	218	234	250
Switch	11	27	43	59	75	91	107	123	139	155	171	187	203	219	235	251
Switch	12	28	44	60	76	92	108	124	140	156	172	188	204	220	236	252
Switch	13	29	45	61	77	93	109	125	141	157	173	189	205	221	237	253
Switch	14	30	46	62	78	94	110	126	142	158	174	190	206	222	238	254
Switch	15	31	47	63	79	95	111	127	143	159	175	191	207	223	239	255

NOTE: THE 4098-9771, -9794, -9795, -9798 SOUNDER BASES HAVE A 9-POSITION DIP SWITCH. THE FIRST EIGHT DIP SWITCHES SET THE SOUNDER BASE ADDRESS. DIP SWITCH POSITION 9 IS SET TO OFF OR ON (DEPENDENT UPON THE SOUNDER BASE POWER SOURCE. WHEN THE SOUNDER BASE IS CONNECTED TO A 24 VDC POWER SOURCE, DIP SWITCH POSITION 9 IS SET TO "OFF" AND THE 24 VDC POWER IS SUPERVISED BY THE SOUNDER BASE. WHEN THE SOUNDER BASE IS POWERED BY THE PANEL'S NOTIFICATION APPLIANCE CIRCUIT (NAC), DIP SWITCH POSITION 9 IS SET TO "ON" AND THE POWER IS SUPERVISED BY THE NAC AND NOT THE SOUNDER BASE. THE 4098-9770 AND -9797 BASES HAVE THE SAME LAYOUT, BUT DOESN'T OFFER SOUNDER FUNCTIONALITY. THEY USE AN 8-WAY DIP SWITCH ONLY.

3 DIP SWITCH SETTINGS - NOTIFICATION

SIMPLEX TRUEALERT ES / IDNAC

NOTE: ADDRESS SHOWN ABOVE IS 2. DO NOT USE ADDRESS 0 FOR A SLC ADDRESS.

DIP SWITCHES 5 THRU 8

Address	0	16	32	48	64	80	96	112
Switch	1	17	33	49	65	81	97	113
Switch	2	18	34	50	66	82	98	114
Switch	3	19	35	51	67	83	99	115
Switch	4	20	36	52	68	84	100	116
Switch	5	21	37	53	69	85	101	117
Switch	6	22	38	54	70	86	102	118
Switch	7	23	39	55	71	87	103	119
Switch	8	24	40	56	72	88	104	120

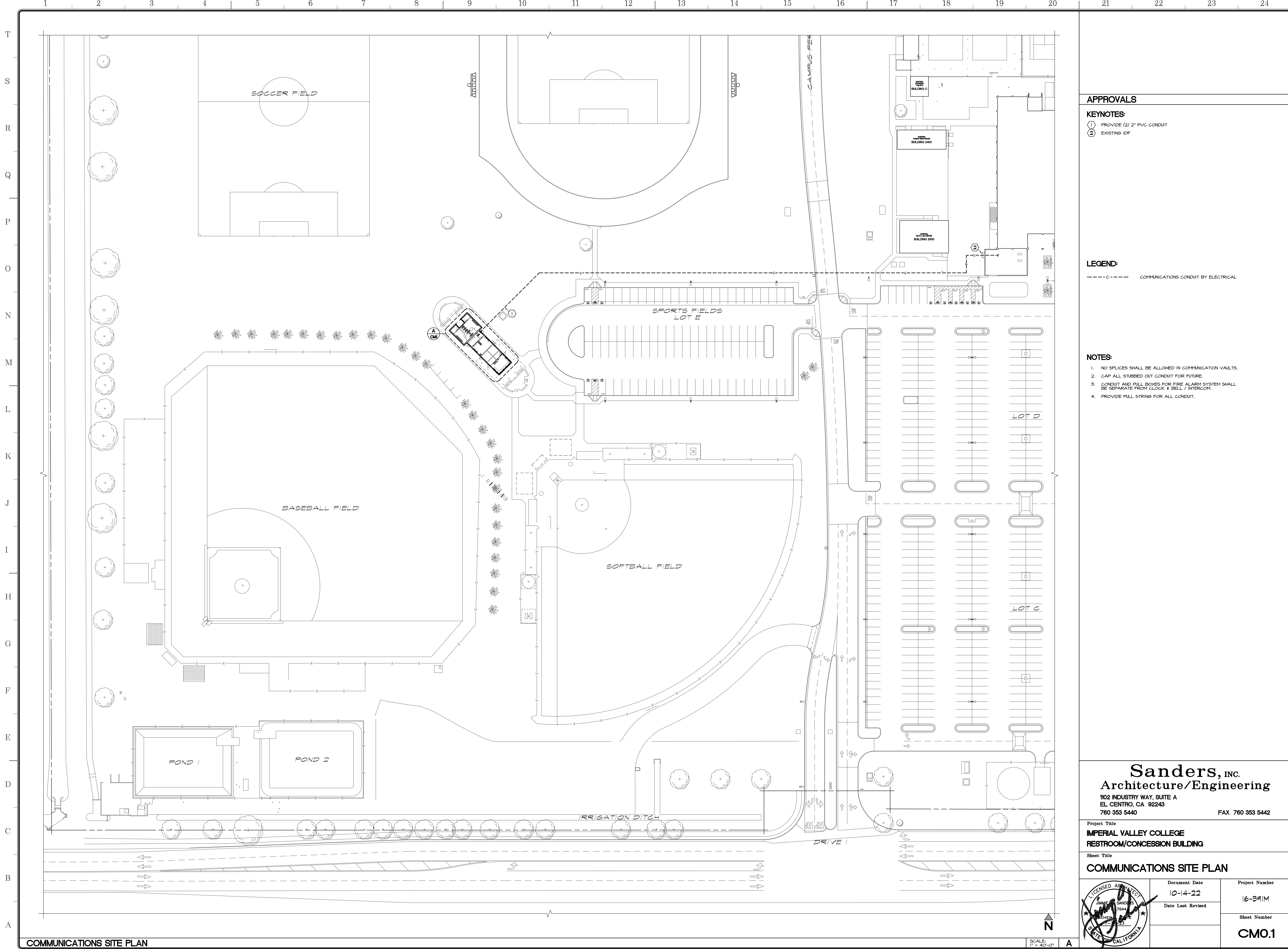
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Project Title
**IMPERIAL VALLEY COLLEGE
RESTROOM/CONCESSION BUILDING**

Sheet Title
FIRE ALARM WIRING TYPICALS

	Document Date 04-01-22	Project Number 22-091V
	Date Last Revised	Sheet Number FA-702



APPROVALS

KEYNOTES:

- ① PROVIDE (2) 2" PVC CONDUIT
- ② EXISTING IDF

LEGEND:

--- C --- COMMUNICATIONS CONDUIT BY ELECTRICAL

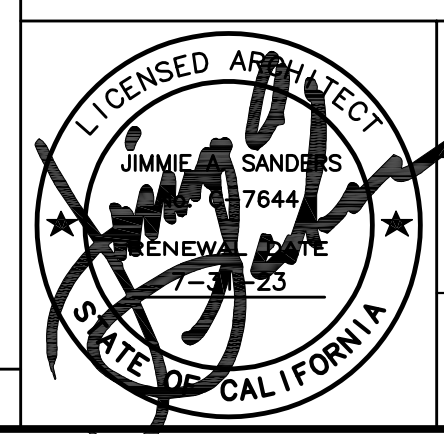
NOTES:

- 1. NO SPLICES SHALL BE ALLOWED IN COMMUNICATION VAULTS.
- 2. CAP ALL STUBBED OUT CONDUIT FOR FUTURE.
- 3. CONDUIT AND PULL BOXES FOR FIRE ALARM SYSTEM SHALL BE SEPARATE FROM CLOCK & BELL / INTERCOM.
- 4. PROVIDE PULL STRING FOR ALL CONDUIT.

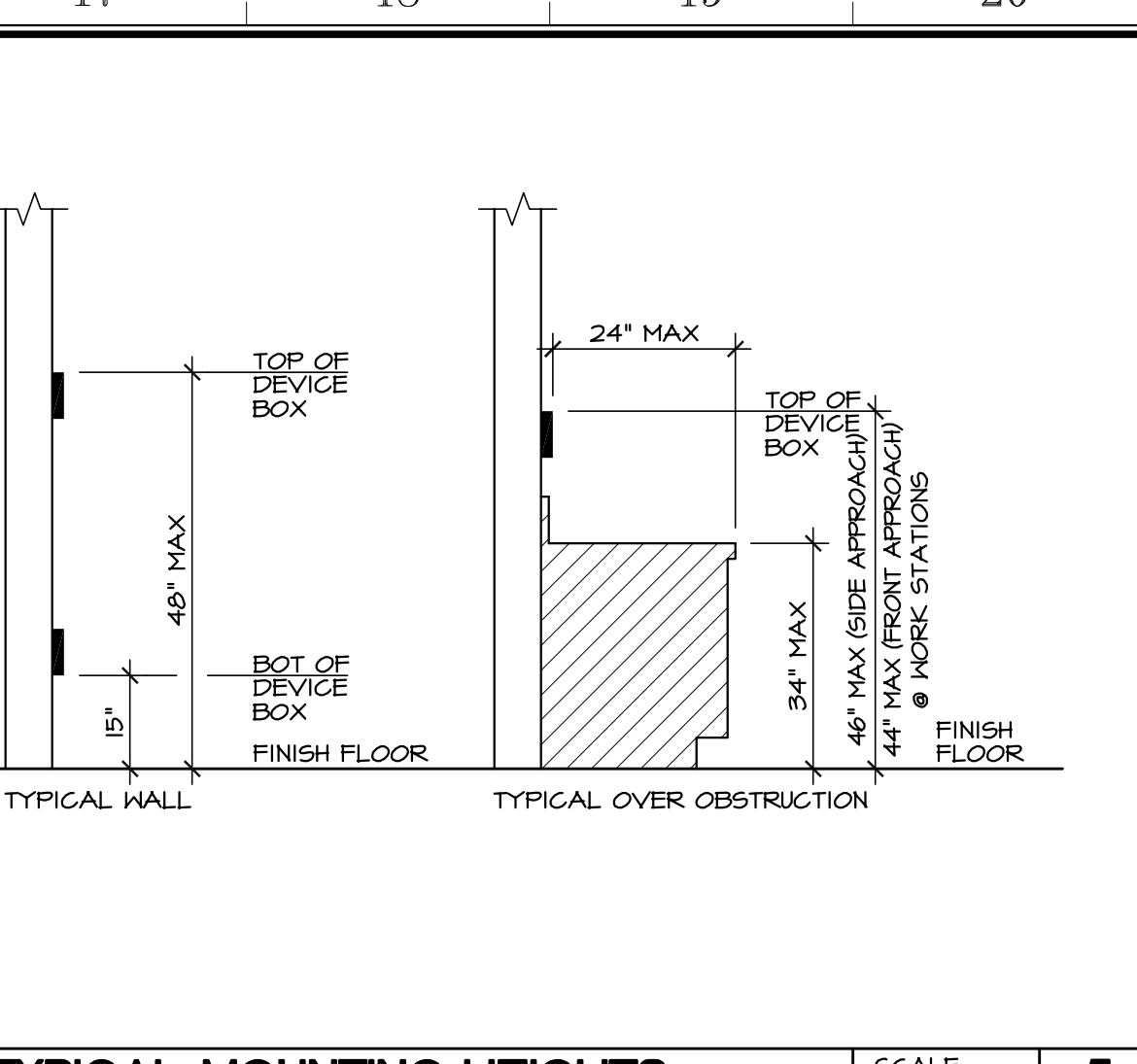
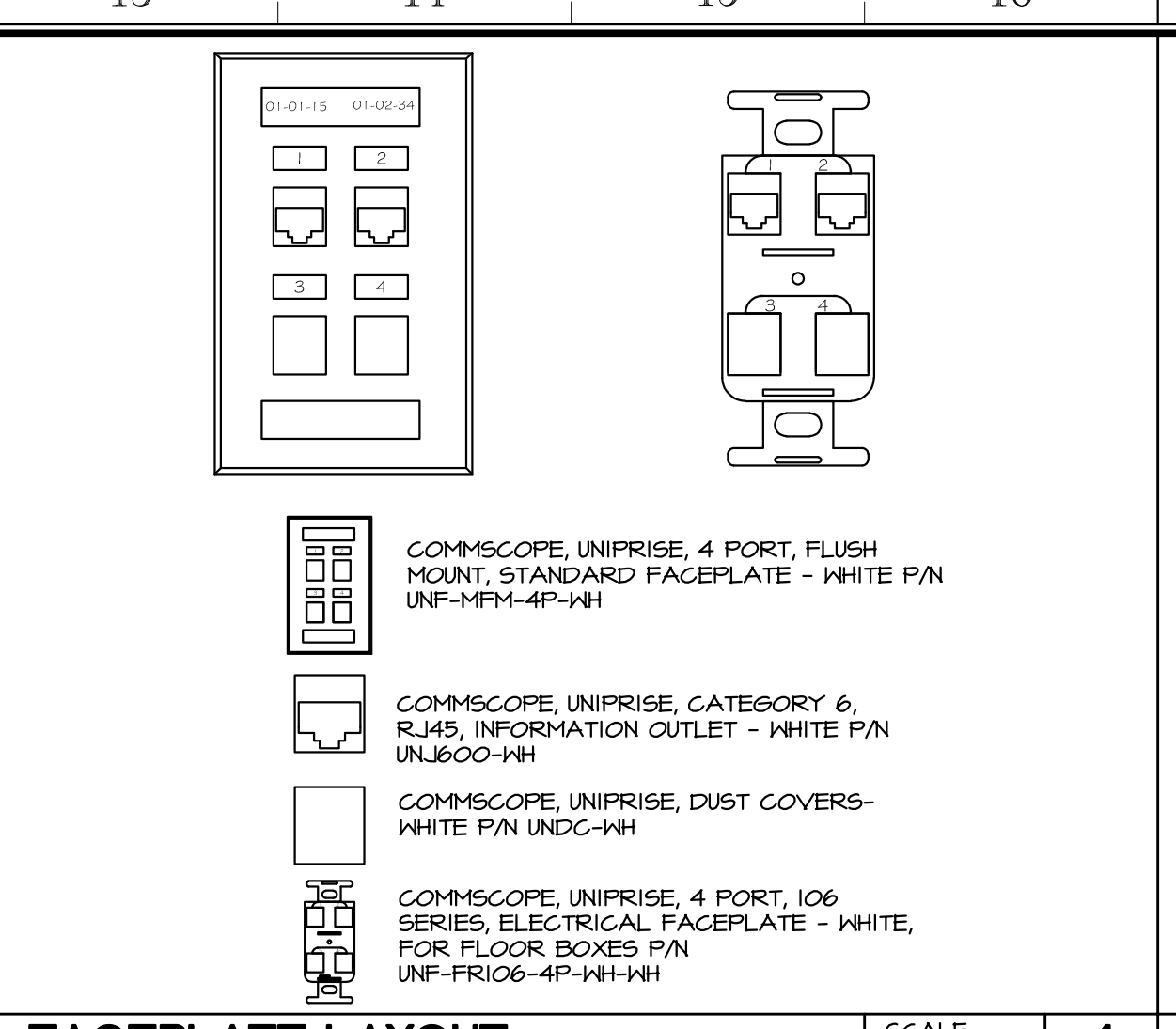
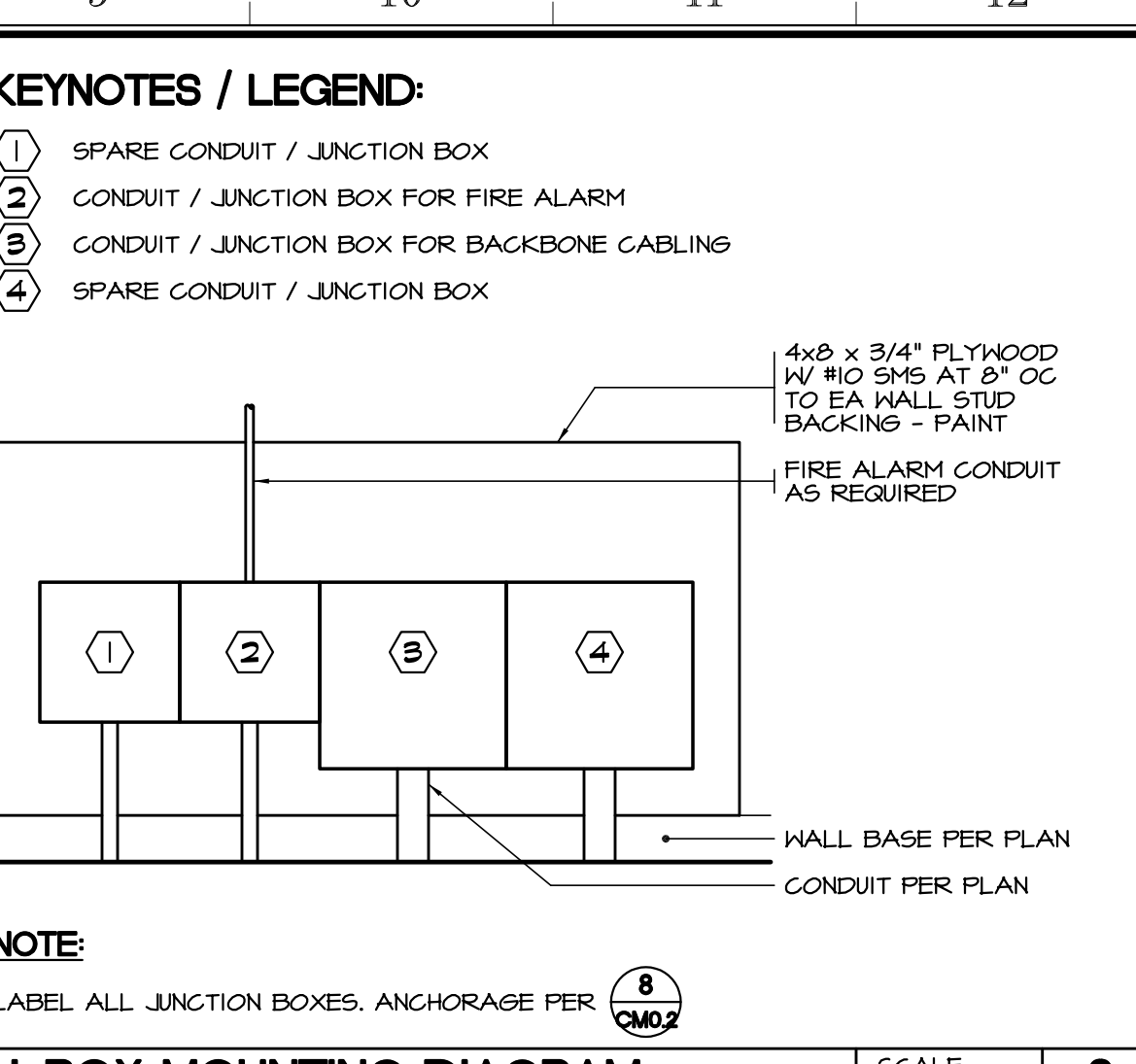
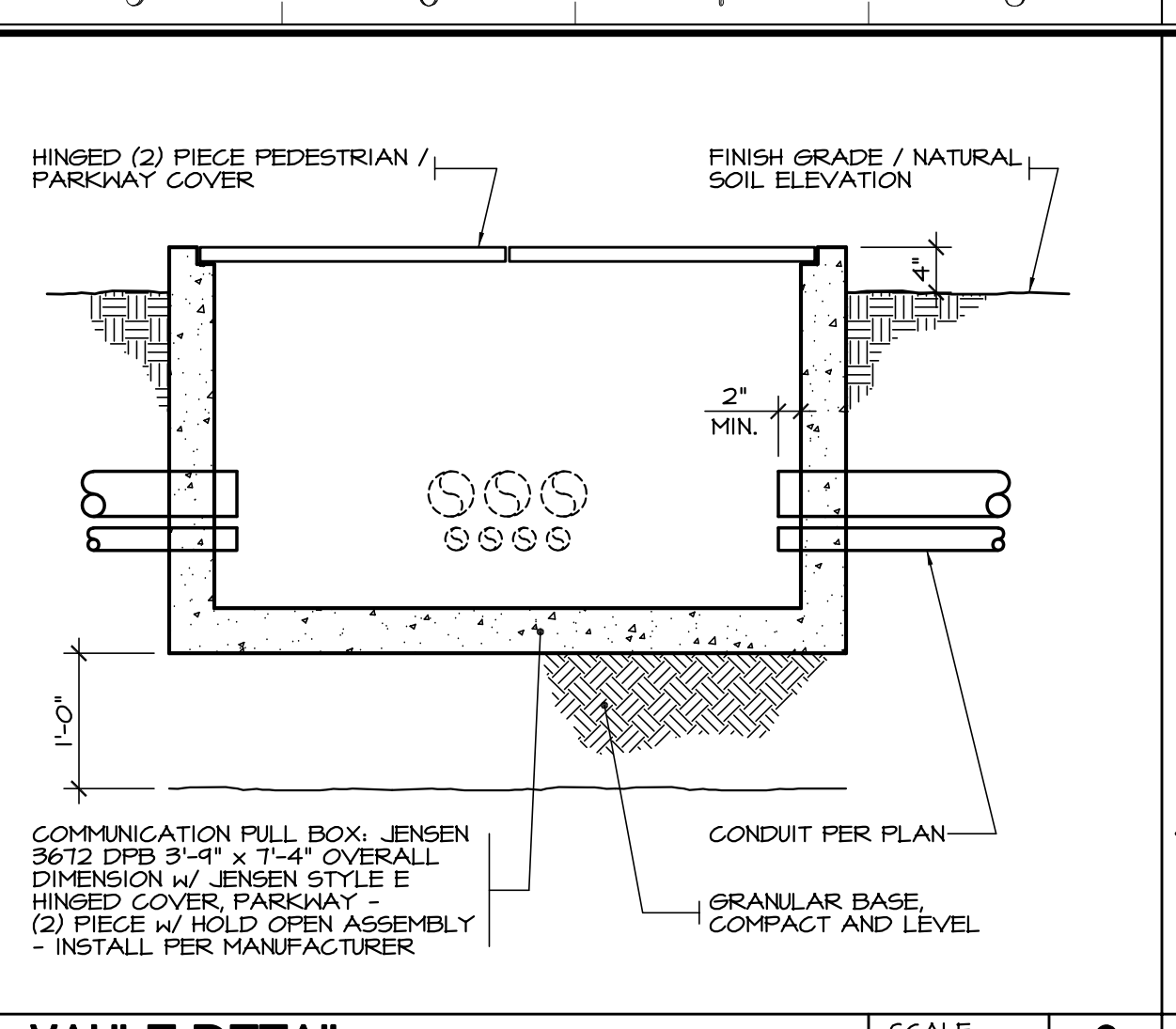
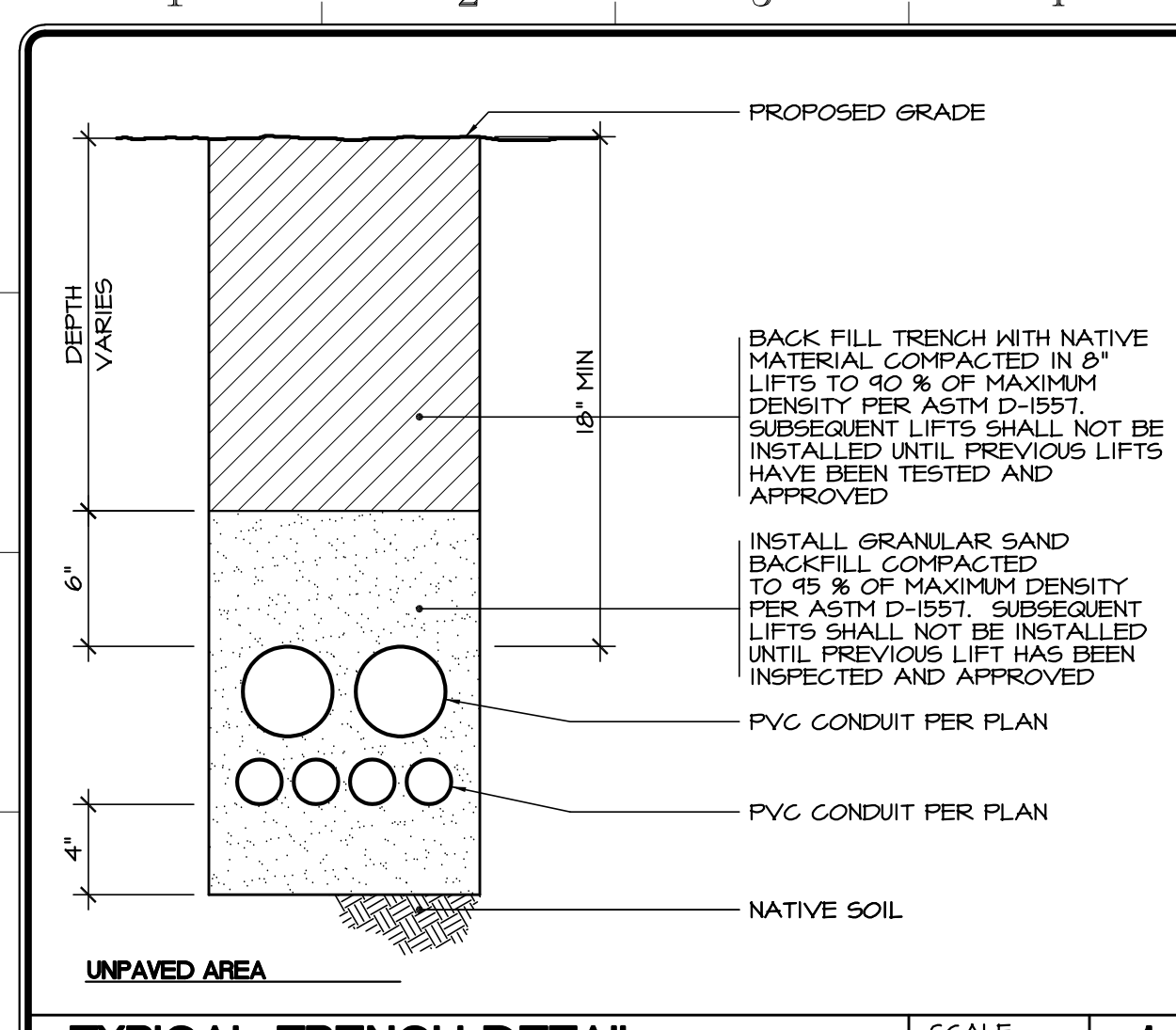
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Project Title
**IMPERIAL VALLEY COLLEGE
 RESTROOM/CONCESSION BUILDING**

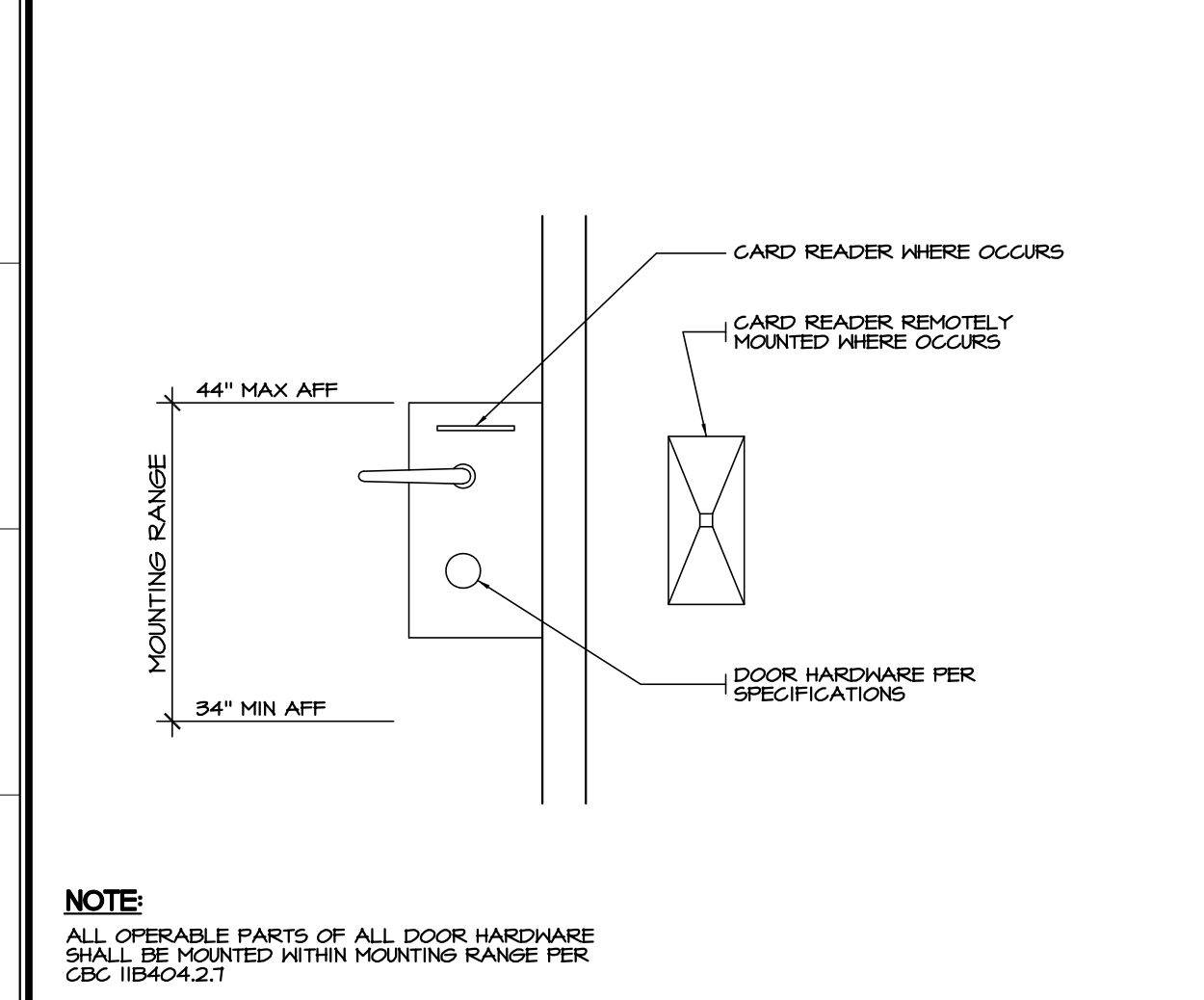
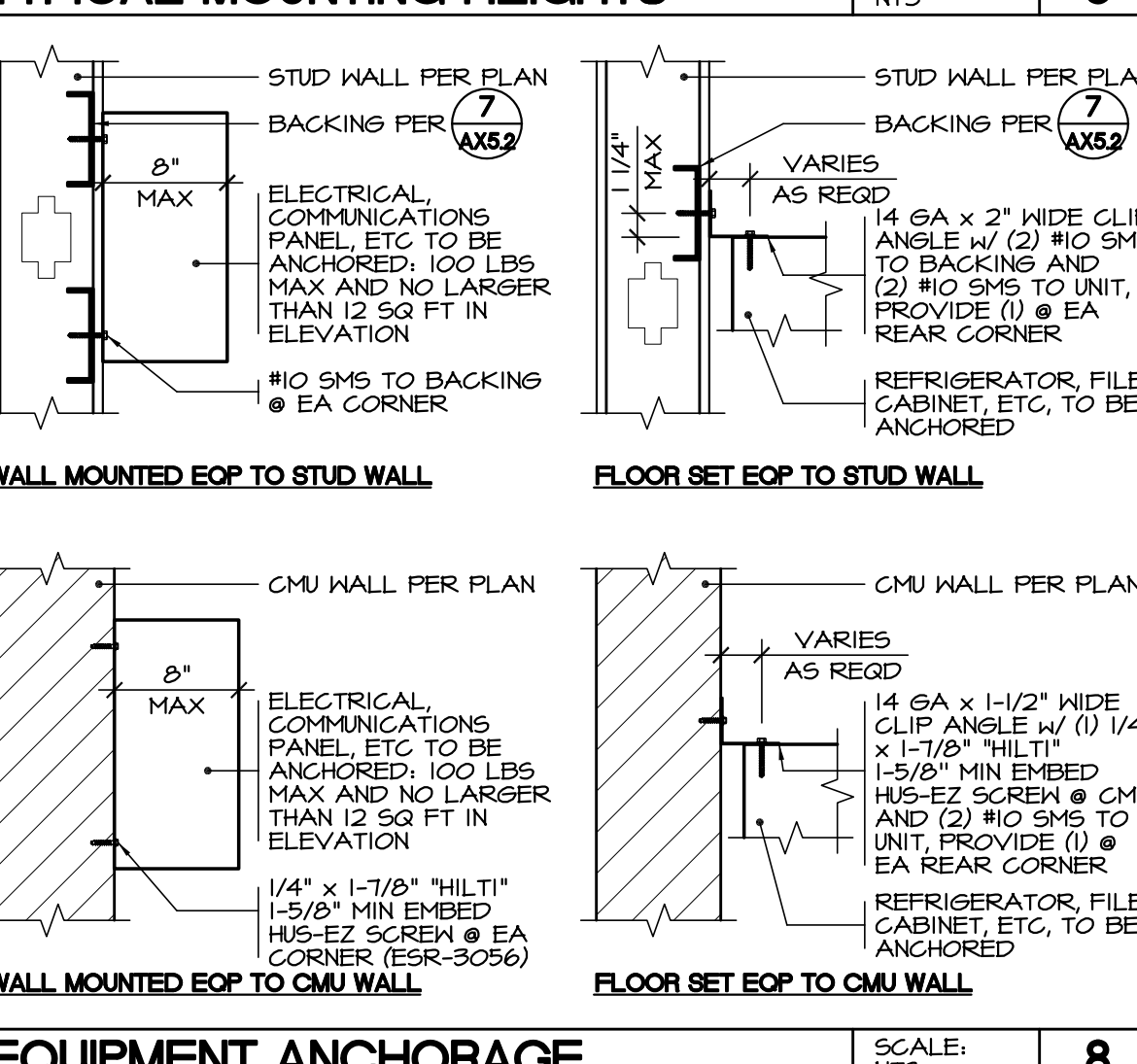
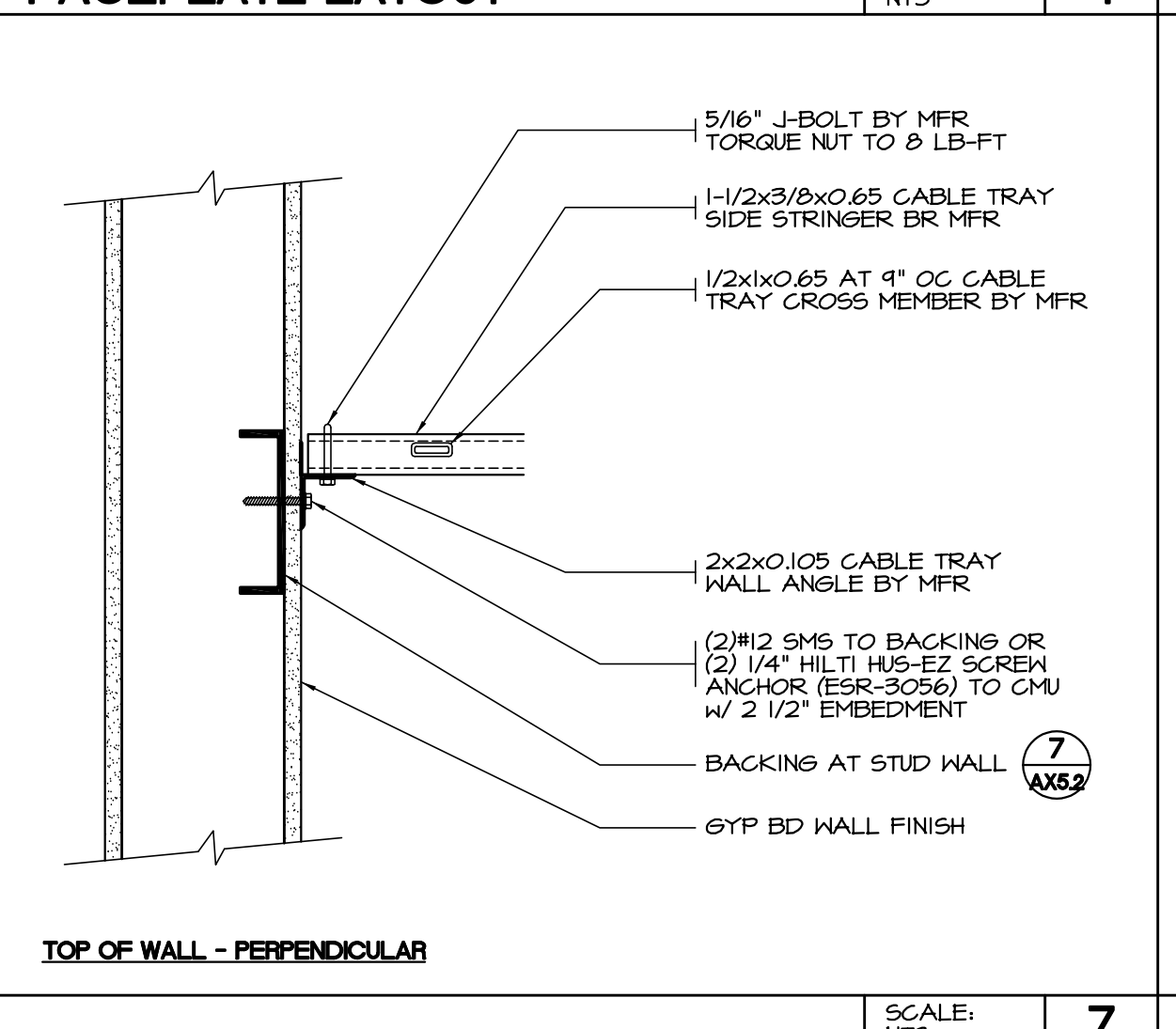
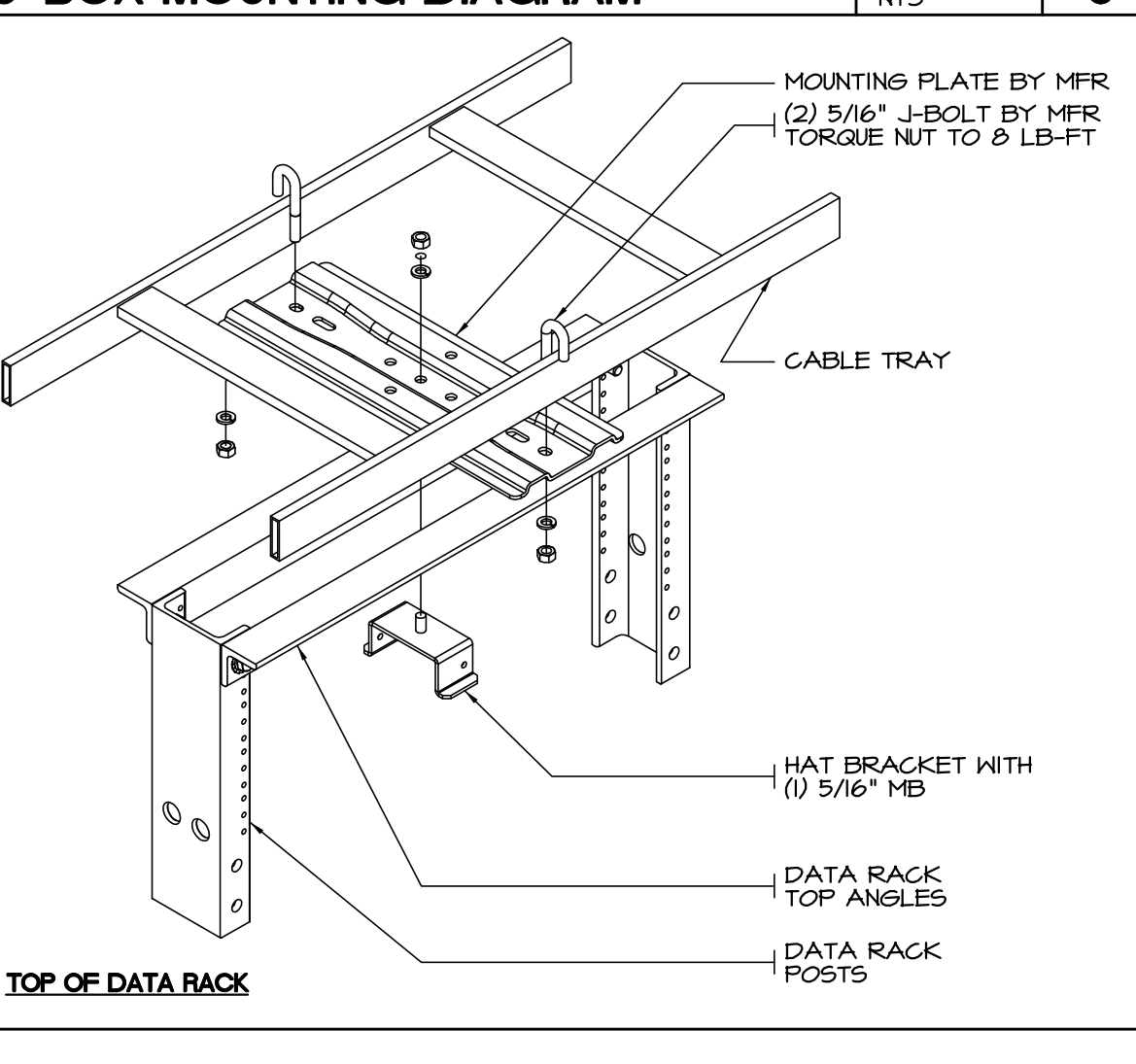
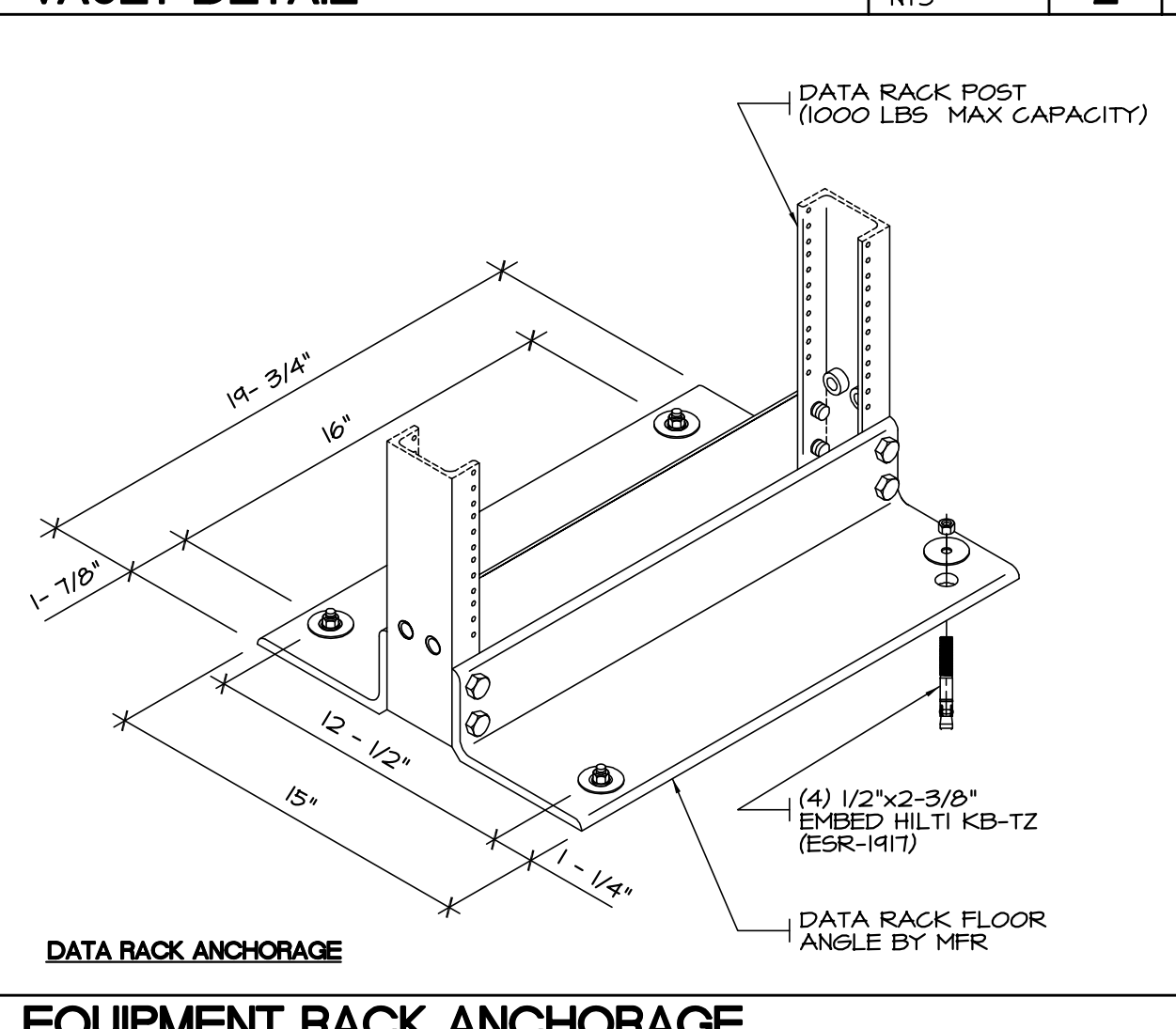
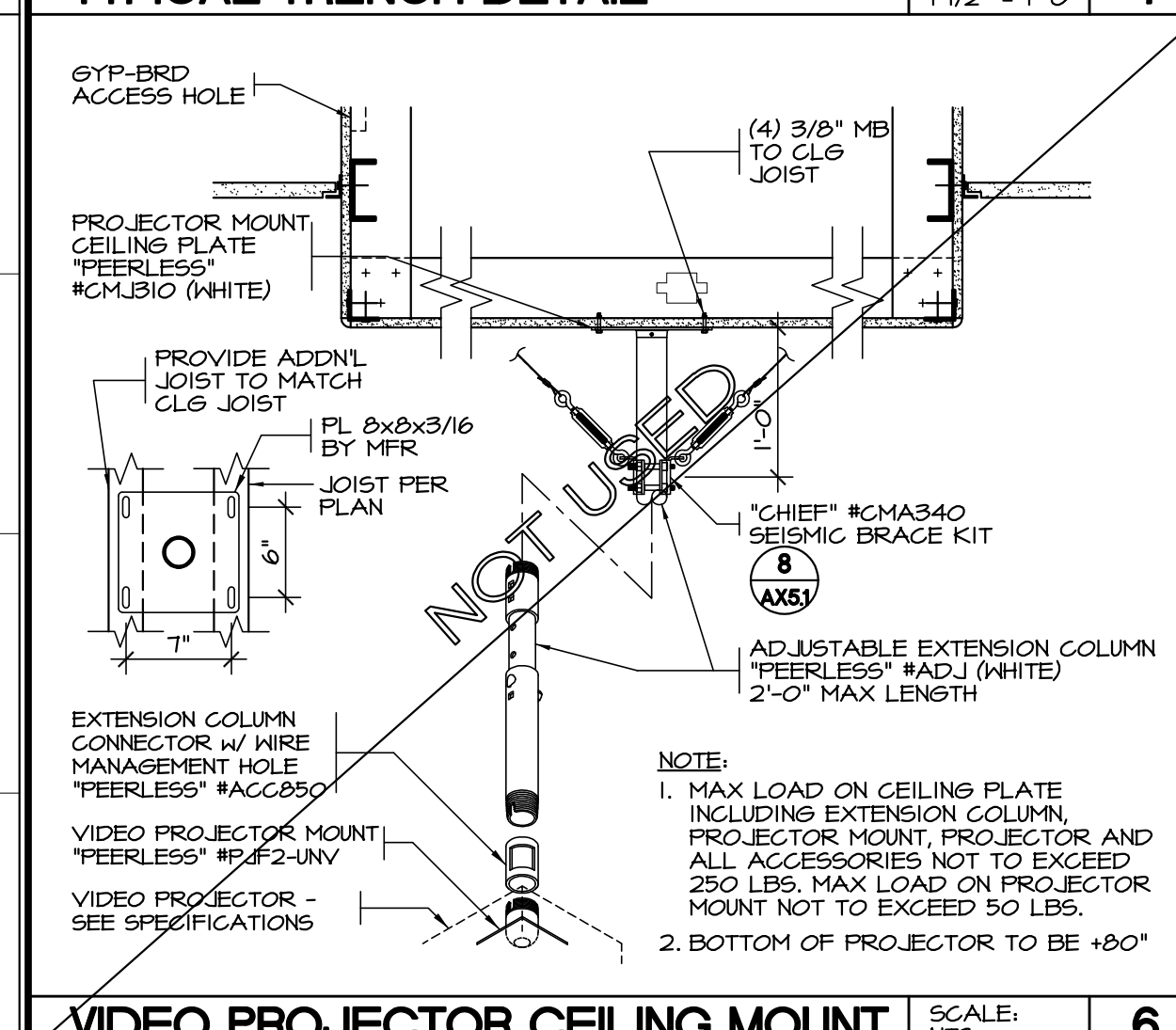
Sheet Title
COMMUNICATIONS SITE PLAN



Document Date 10-14-22	Project Number 16-391M
Date Last Revised	Sheet Number CMO.1



APPROVALS

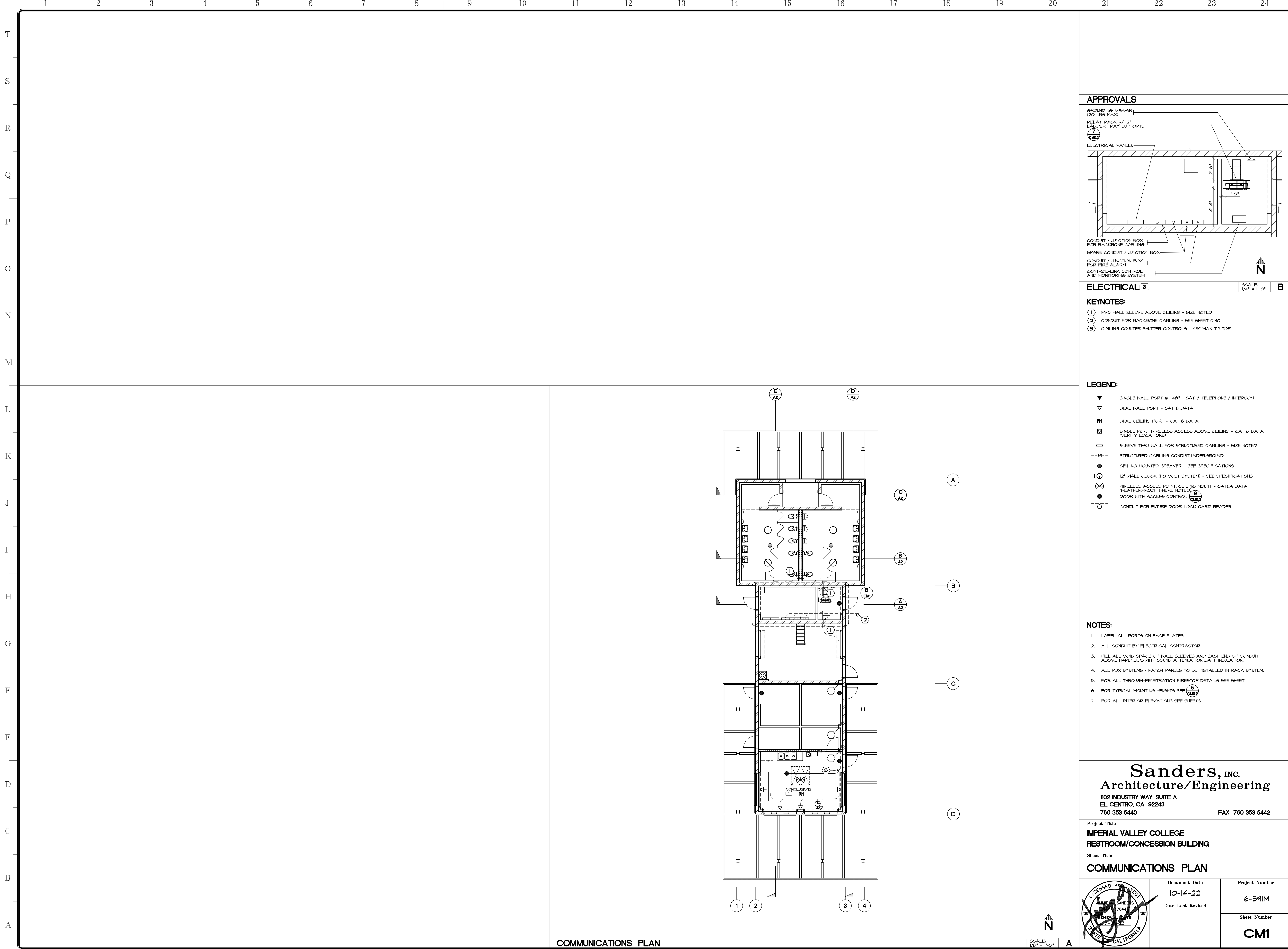


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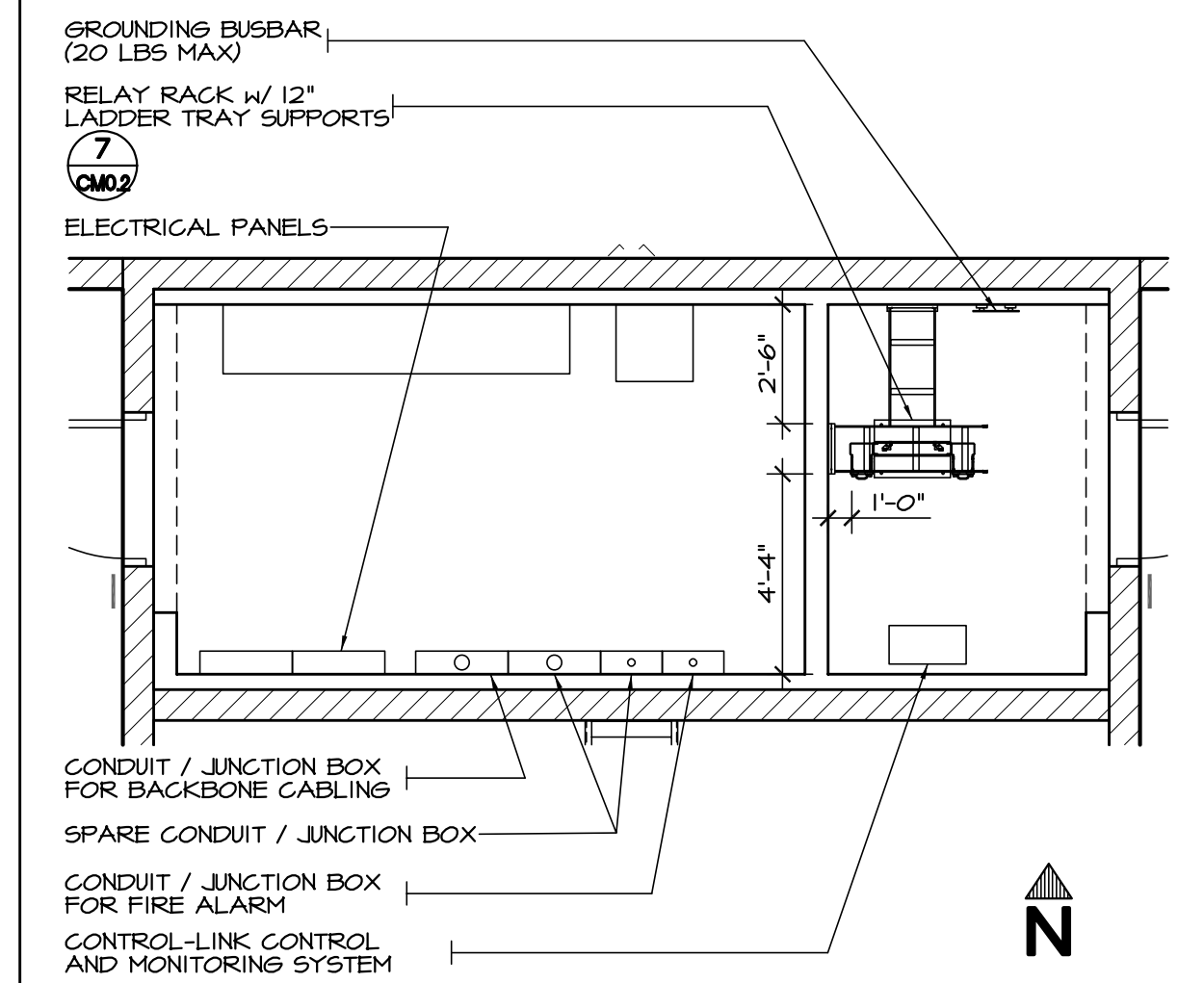
Project Title
**IMPERIAL VALLEY COLLEGE
 RESTROOM/CONCESSION BUILDING**

COMMUNICATIONS DETAILS

	Document Date 10-14-22	Project Number 16-391M
	Date Last Revised	Sheet Number CM0.2



APPROVALS



ELECTRICAL 3 SCALE: 1/4" = 1'-0" B

KEYNOTES:

- ① PVC WALL SLEEVE ABOVE CEILING - SIZE NOTED
- ② CONDUIT FOR BACKBONE CABLING - SEE SHEET CM01
- ③ COILING COUNTER SHUTTER CONTROLS - 48" MAX TO TOP

LEGEND:

- ▼ SINGLE WALL PORT @ 140" - CAT 6 TELEPHONE / INTERCOM
- ▽ DUAL WALL PORT - CAT 6 DATA
- ⊞ DUAL CEILING PORT - CAT 6 DATA
- ⊞ SINGLE PORT WIRELESS ACCESS ABOVE CEILING - CAT 6 DATA (VERIFY LOCATIONS)
- SLEEVE THRU WALL FOR STRUCTURED CABLING - SIZE NOTED
- HS- STRUCTURED CABLING CONDUIT UNDERGROUND
- ⊙ CEILING MOUNTED SPEAKER - SEE SPECIFICATIONS
- ⊙ 12" WALL CLOCK (110 VOLT SYSTEM) - SEE SPECIFICATIONS
- ⊙ WIRELESS ACCESS POINT, CEILING MOUNT - CAT6A DATA (WEATHERPROOF WHERE NOTED)
- ⊙ DOOR WITH ACCESS CONTROL (CM02)
- CONDUIT FOR FUTURE DOOR LOCK CARD READER

NOTES:

1. LABEL ALL PORTS ON FACE PLATES.
2. ALL CONDUIT BY ELECTRICAL CONTRACTOR.
3. FILL ALL VOID SPACE OF WALL SLEEVES AND EACH END OF CONDUIT ABOVE HARD LIDS WITH SOUND ATTENUATION BATT INSULATION.
4. ALL PBX SYSTEMS / PATCH PANELS TO BE INSTALLED IN RACK SYSTEM.
5. FOR ALL THROUGH-PENETRATION FIRESTOP DETAILS SEE SHEET
6. FOR TYPICAL MOUNTING HEIGHTS SEE (CM02)
7. FOR ALL INTERIOR ELEVATIONS SEE SHEETS

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Project Title
**IMPERIAL VALLEY COLLEGE
 RESTROOM/CONCESSION BUILDING**

Sheet Title
COMMUNICATIONS PLAN

	Document Date	Project Number
	Date Last Revised	16-391M
		Sheet Number
		CM1

COMMUNICATIONS PLAN

SCALE: 1/8" = 1'-0" A

GENERAL NOTES:

APPLICABLE BUILDING CODE

All construction and workmanship shall conform to the 2019 California Building Code, California Code of Regulations - Title 24, Parts 1 & 2.

This pole and foundation standard has been designed for lateral loads on the completed structure as follows:

- Wind Design Data:
 - Vult = 38 MPH (Exposure C); Vasd = 76 MPH (Exposure C)
 - Risk Category = II
 - See Pole Foundation Schedule for maximum pole wind forces.
- Seismic Design Data:
 - I_e = 1.0
 - Risk Category = II (Self Supporting Poles)
 - S_a = 2.209
 - S_v = 0.796
 - Site Class = D - DEFAULT
 - S_w = 1.787
 - S₁ = 0.891
 - Seismic Design Category = D
 - Basic Seismic-Force-Resisting System = Non-Building Structure, not similar to buildings
 - C_s = 0.419 (STRENGTH LEVEL)
 - R = 1.5
 - Analysis Procedure = Equivalent Lateral Force Procedure
 - See Pole Foundation Schedule for maximum pole seismic forces.

GENERAL CONSTRUCTION

These notes shall be used in conjunction with the plans and any discrepancies shall be brought to the attention of the Registered Design Professional (RDP) in Responsible Charge.

Contractor must check all dimensions, clearances and job conditions before starting work. The RDP in Responsible Charge shall be notified immediately of any discrepancies or possible deficiencies.

The drawings and specifications represent the finished structure. All bracing, temporary supports, shoring, etc., is the sole responsibility of the Contractor. Observation visits to the job site by the RDP in Responsible Charge do not include inspection of construction procedures. The Contractor is solely responsible for all construction methods and for safety conditions at the worksite. These visits by RDP in Responsible Charge shall not be construed as continuous and detailed inspections.

Design, material, equipment, and products other than those described below or indicated on the drawings may be considered for use, provided prior approval is obtained from the School District, the RDP in Responsible Charge, and DSA.

All changes to the approved plans after a contract for construction has been awarded, affecting structural, access or life-safety portions of the project, shall be made by means of construction change documents (CCD) approved by DSA, as required by Section 4-336, Part 1, Title 24, CCR. All CCD shall be prepared and signed by the RDP in general Responsible Charge.

Substitutions shall be considered as a CCD and shall be approved by DSA prior to fabrication or use.

A Class 1 or Class 2 Project Inspector employed by the School District (Owner) and approved by DSA shall provide continuous inspection of the work, the duties of the Inspector are defined in Section 4-342, Part 1, Title 24, CCR.

All Tests And Inspections shall be performed by an independent lab employed by the School District and approved by DSA.

Reference pole location on the Architectural, Structural, and/or Electrical drawings for actual pole placement and site location. Pole shall be located 3'-0" min. from adjacent structures below 50'-0" A.G.L., unless noted otherwise.

LIGHT POLE FOUNDATIONS

Reference chapter 18A, sections 1806A, 1807A, and 1810A of the 2019 edition of the California Building Code, assume class 5 soils.

Assumed allowable end bearing soil pressure: 1,500 psf (Table 1806A.2) or 250 psf skin friction (Section 1810A.3.3.1.4)

Assumed allowable lateral passive soil bearing pressure: 200 psf/ft for isolated poles not adversely affected by a 0.5 inch motion at the ground surface (Section 1806A.3.4)

Assumed design soil parameters are as noted. Actual allowable soil design parameters at level or sloping conditions (if any) must be verified by a geotechnical engineer.

The Contractor must familiarize himself with the complete geotechnical report, and borings and contact the above firm to understand the soil conditions and the possibility of ground water pumping and excavation stabilization or bracing during the foundation installation and placement of concrete.

Soil formations that will require special design considerations or excavation procedures may exist. Pole foundations may need to be redesigned according to the soil conditions that exist.

If any discrepancies or inconsistencies arise, notify the RDP in Responsible Charge of such discrepancies. All piers and concrete must bear on and against firm undisturbed soil as determined by the Geotechnical Engineer.

Place plywood collar around perimeter at the top of foundation excavation to prevent soil from entering pit.

All excavations must be free of loose soil, and debris prior to foundation installation and placement of concrete. Casing or drilling slurry may be required if casing occurs. Review and approval of the Geotechnical Engineer and DSA is required.

All excavations must be free of water or concrete shall be placed by the Tremie Method in accordance with ACI standard 336. Concrete placed by the Tremie Method shall have a minimum ultimate strength of 1,000 PSI greater than required under "Concrete Cast-in-Place" and a maximum slump of 8".

CONCRETE (CAST-IN-PLACE)

Concrete pier foundations with steel reinforcement shall attain a minimum ultimate compressive strength at 28 day test of 4,500 psi. Batch plan inspection not required.

All concrete shall attain a minimum strength of 2,500 psi prior to steel pole erection.

Use Type V Portland cement or as directed by the Geotechnical Engineer. 0.45 max. water to cement ratio by weight.

Portland Cement ASTM C-150.

Aggregate ASTM C-33. 1" maximum aggregate size. 3/4" max. agg. size not permitted at reinforced piers.

Mix in conformance with ASTM C-94, ACI 318 SECTIONS 19.2 and 26.4.

Place concrete immediately after completion of excavation and inspection by the Geotechnical Engineer and the DSA Inspector. Under no circumstances shall piers be allowed to remain open for more than 12 hours without the approval of the Geotechnical Engineer. Excavations shall be covered and protected until filled with concrete.

Concrete shall be placed in one continuous operation (no construction joint) with special equipment to assure a maximum depth of 5 ft and to prevent concrete from striking the sides of the excavation. Freefall of concrete is unacceptable through water or drilling slurry.

Vibrate concrete full depth, except for concrete with slump greater than 6", then vibrate only upper 10'-0". Concrete placed under water shall have a slump of 6"-8".

STEEL POLE

Steel pole sections conform to the California Code of Regulations T.24, Part 2, Chapter 22A.

All steel conforms to referenced ASTM specifications. (See Pole Data Table for each pole type).

All weldment conforms with AWS D11.15 specification for GMAW filler utilizing E70S-X filler metal or SAW filler utilizing E70X-E20X or F80X-E20X filler metal.

GMAW procedure conforms to AWS A5.18.

SAW procedure conforms to AWS A5.23.

Longitudinal seam welds for pole sections shall have 60% minimum penetration; Except longitudinal seam welds on the female section of telescopic field splices shall be full penetration groove welds for a length equal to the minimum splice length plus 6 inches. See drawing Number MD1 for seam weld details.

Pole sections not dipped galvanized to ASTM A123 latest standards.

All miscellaneous structural steel items conform to AISC 360-16.

Steel pole sections shall be assembled in the field by attaching two 1.5 ton "come alongs" to jacking ears, using full effort on each simultaneously, to ensure minimum overlaps as indicated on the "MS" sheet(s) and detail (S/MD).

PRECAST BASE

The precast concrete base conforms to California Code of Regulations, T.24, part 2, Chapter 19A and to Building Code Requirements for Reinforced Concrete, ACI 318-14.

See detail "A" on "MS" sheet(s) for material strengths and specifications.

TESTING AND INSPECTION

Testing and inspection in accordance with Title 24, Part 1 & Part 2 & project DSA 103 form.

EXCAVATIONS & FOUNDATIONS: Inspection of cast-in-place deep foundations - 1705A.8 & Table 1705A.8

CONCRETE MATERIALS: 1903A.1 Portland cement - 1910A.1 Concrete aggregates - 1903A.5 Reinforcing bars - 1910A.2 & DSA IR 17-10 Prestressing steel and anchorages - 1910A.3

CONCRETE QUALITY: Proportions of concrete - Reference ACI 318 Section 26.4.3.1 through 26.4.4.1 Strength tests of concrete - 1905A.1.15 and ACI 318 Section 26.12 & 26.5.3.2

CONCRETE INSPECTION: 1705A.3 & Table 1705A.3 Job site - Reference ACI 318 Section 26.5.1, 26.5.2.1(a) & (b), 26.6.1.2(d), 26.11.1.1(a), Batch Plant Inspection Not Required - 1705A.3.2 Prestressed concrete - 1704A.2.5, 1705A.3.4

STEEL MATERIALS: Structural steel - 2202A.1 & 2205A.1 Cold formed steel - 2210A.1 Identification - 2202A.1 High strength bolt identification - table 1705A.2.1 & DSA IR 17-9

STEEL QUALITY: Tests of structural steel & cold formed steel - 2202A.1 Tests of high strength bolts, nuts, & washers - 2213A.1 & DSA IR 17-8

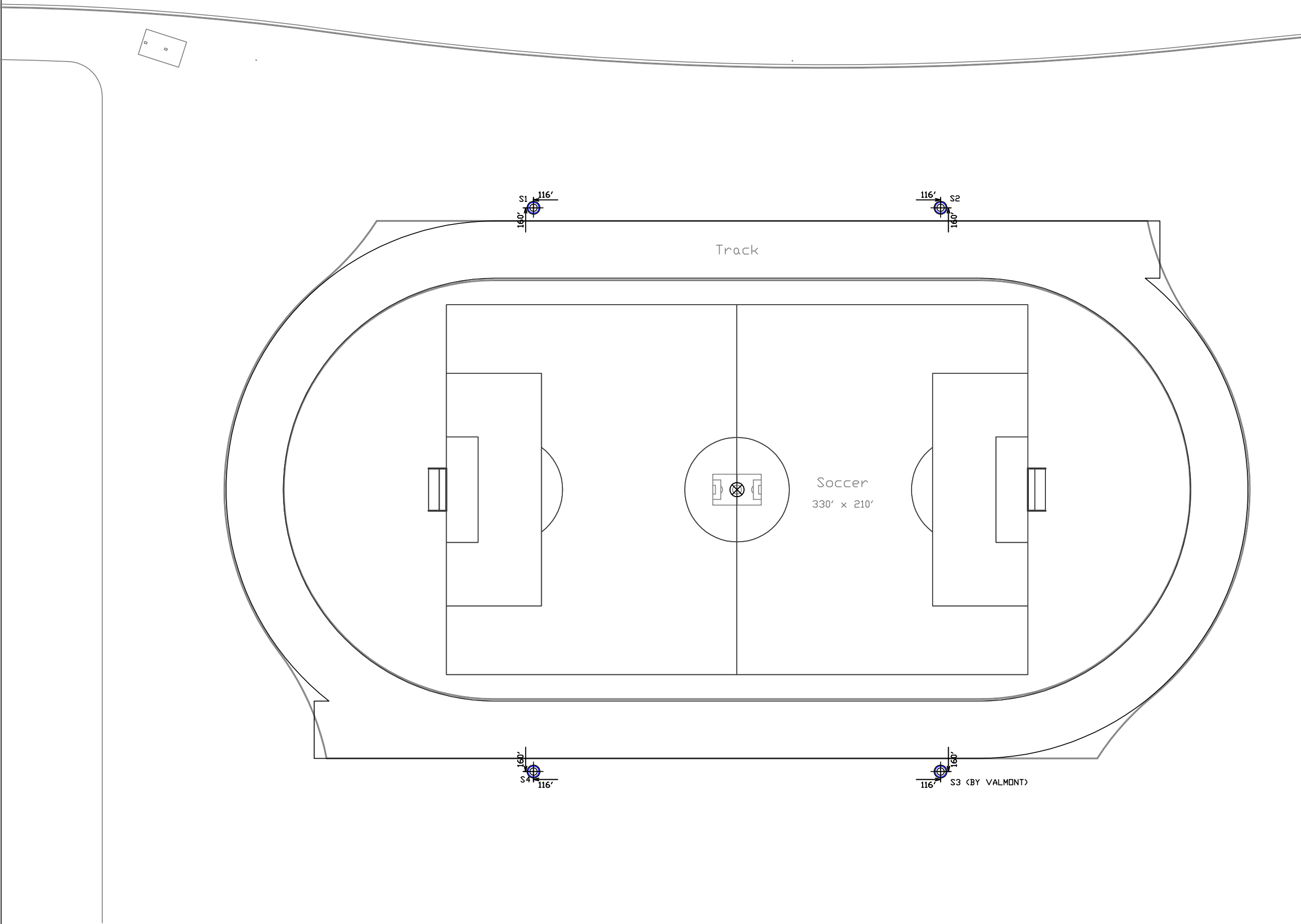
STRUCTURAL STEEL INSPECTIONS: Table 1705A.2.1 Shop fabrication inspection - 1704A.2.5 Welding - 1705A.2.5, DSA IR 17-3 and AWS D11.1 High strength bolt installation - Table 1705A.2.1 & DSA IR 17-9 (Including Skidmore-Wilhelm bolt tension pre-installation verification testing)

(NOTE: ALL WELDING SHALL BE CONTINUOUSLY INSPECTED BY AN AWS CW CERTIFIED INSPECTOR APPROVED BY DSA)

These plans are for construction approval. An application number and approval of these drawings by the Division of The State Architect of California must be secured to build from these plans.

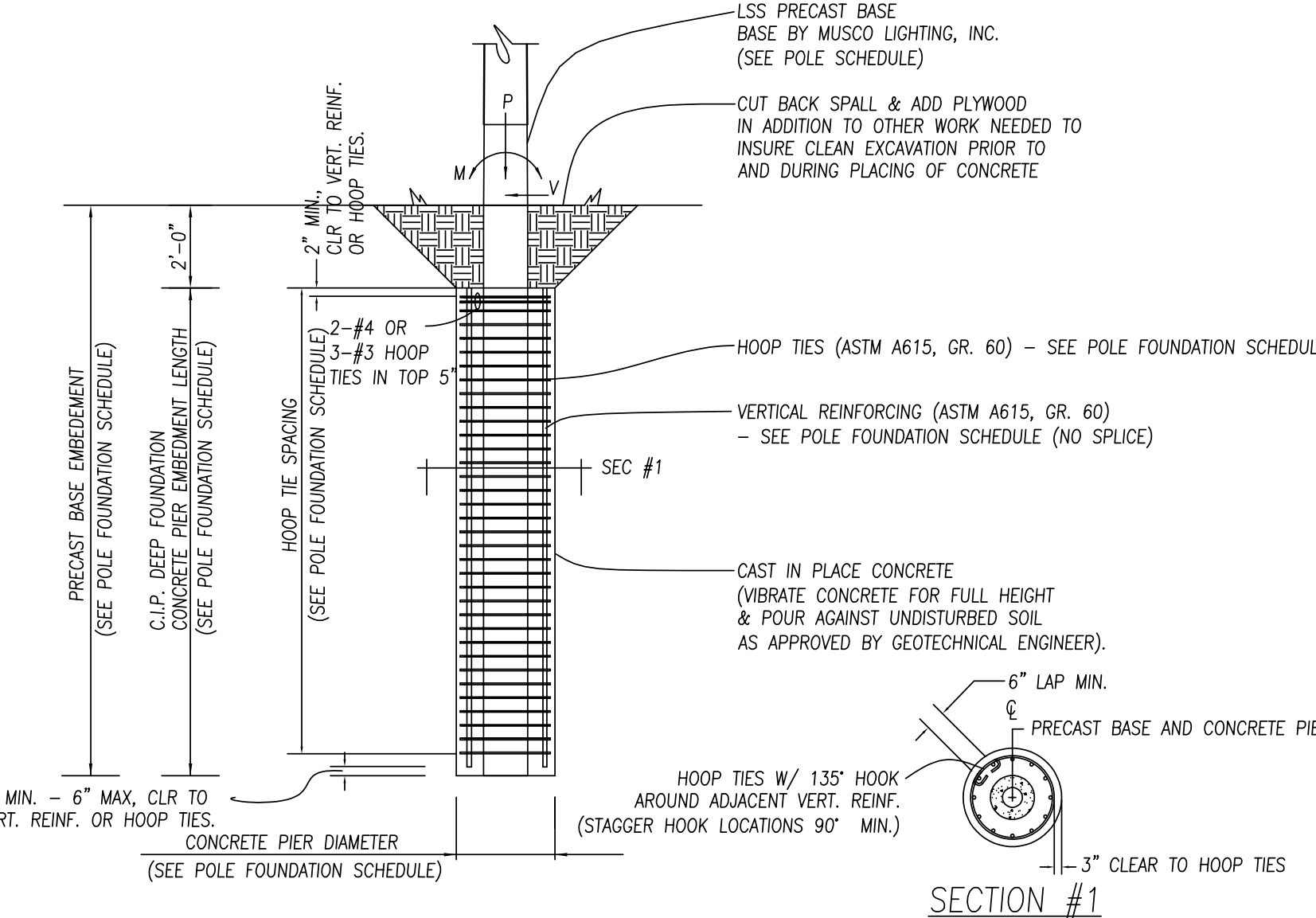
INDEX OF SHEETS

- MT1 NOTES, FOUNDATION DETAIL
- MS1 90B POLE DETAILS
- MD1 ATTACHMENT DETAILS
- MD2 ATTACHMENT DETAILS
- MD3 ATTACHMENT DETAILS



POLE ORIENTATION PLAN
N.T.S.

NOTE: THIS PLAN IS A PICTORIAL REPRESENTATION OF THE SITE LAYOUT. REFER TO APPROPRIATE ARCHITECTURAL SITE PLAN FOR ALL NECESSARY INFORMATION.



A REINFORCED FOUNDATION DETAIL
N.T.S. DSA-A2-CASFD-A

POLE TYPE-# OF FIXTURES (MAX) (LSS=LIGHT STRUCTURE)	MARK (SEE POLE ORIENTATION PLAN)	WIND OR SEISMIC FORCE (SEISMIC INCLUDES OVERSTRENGTH FACTOR=1.5)	ASD LEVEL FORCES (MAX)			C.I.P. DEEP FOUNDATION	PRECAST BASE EMBEDMENT FEET
			MOMENT (M) FT-LBS*	SHEAR (V) LBS	VERTICAL (P) LBS**		
LSS90B-15	S1, S2, S4	SEISMIC	225,400	3,303	7,505	42"	16'-0"
		WIND	185,400	2,859	4,841		12'-#7

*Moment (M) computed below grade at Shear (V) = 0.
**Vertical (P) load includes steel pole, light fixtures, and attachments. Vertical (P) load for wind is the dressed pole weight for erection purposes. Vertical (P) load for seismic also includes weight of precast base above groundline. Reference Detail "A" on MS Sheet(s) for precast base weight.
Soils: Final Embedment to be determined in the field by the Geotechnical Engineer of Record

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APPROVALS

Imperial Valley College Track
FIELD LIGHTING
Imperial, CA



MUSCO Lighting
CORPORATE OFFICE:
P.O. Box 808
100 1st Avenue West
Oskaloosa, Iowa 52577
800/825-6020

DRAWING TITLE: NOTES, FOUNDATION DETAIL	SCALE: SEE PLAN
REVISIONS:	REFERENCE:

PROJECT NO: 123173
DATE: 06/28/2022
DRAWN BY: H.Sabers
DRAWING NO: 1 OF 5
MT1

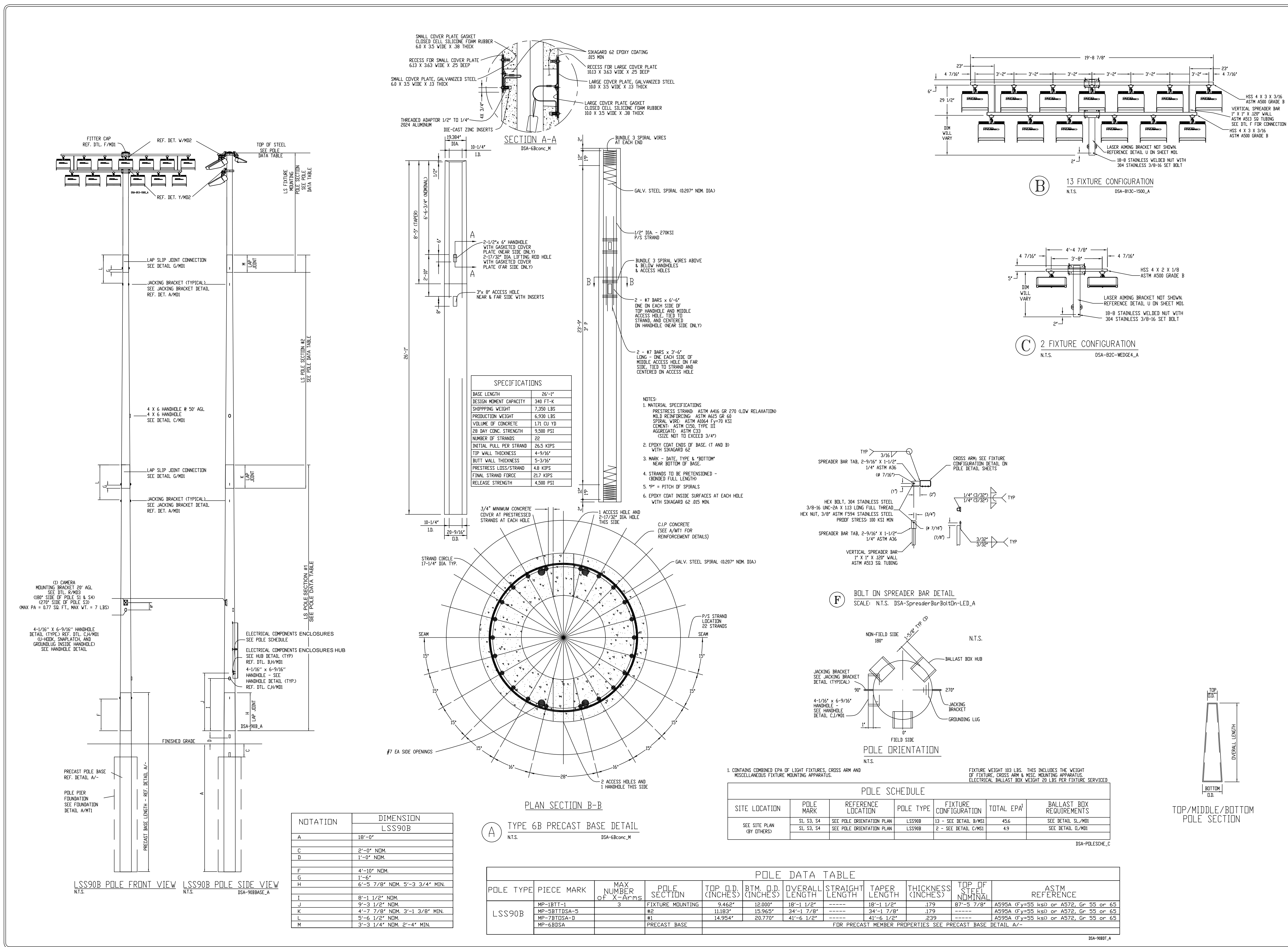
Sanders, INC.
Architecture/Engineering
102 INDUSTRY WAY, SUITE A
EL CENTRO, CA 92243
760 353 5440 FAX 760 353 5442

Project Title
IMPERIAL VALLEY COLLEGE RESTROOM/CONCESSION

Sheet Title
POLES S1, S2, S4 DRAWINGS

	Document Date 08-19-22	Project Number 22-091V
	Date Last Revised	Sheet Number MT1

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FIELD LIGHTING
Imperial, CA



MUSCO Lighting

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Oskaloosa, Iowa 52577
800/825-6020

SCALE: SEE PLAN
POLE DETAIL
REVISIONS
REFERENCE

PROJECT NO. 123173
DATE: 06/23/2022
DRAWN BY: H.Sobers
DRAWING NO. MS1
2 OF 5

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IMPERIAL VALLEY COLLEGE RESTROOM/CONCESSION

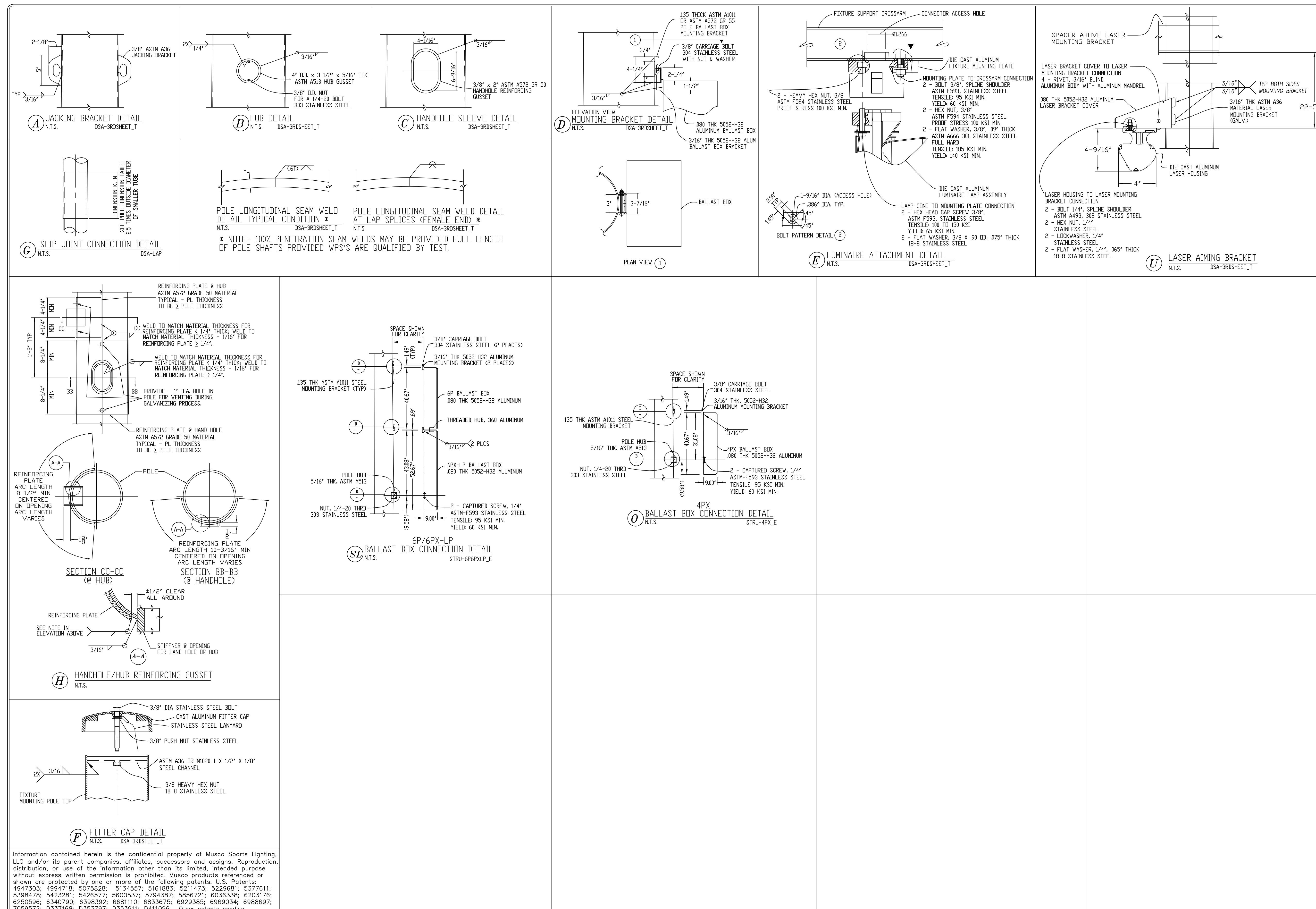
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	Document Date 08-19-22	Project Number 22-091V
	Date Last Revised	Sheet Number MS1

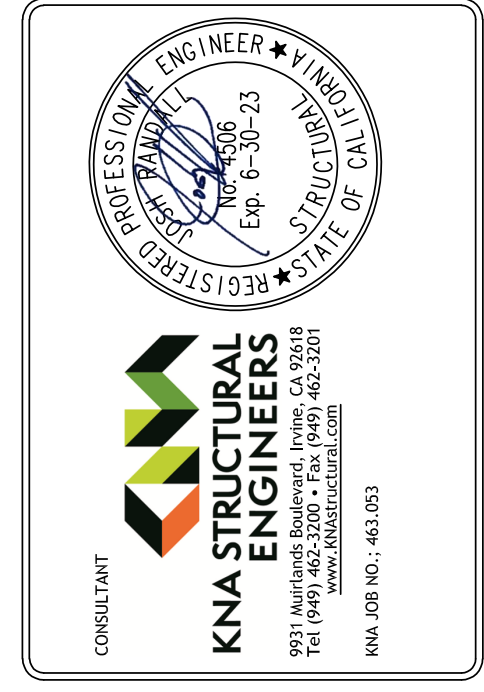
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APPROVALS



Imperial Valley College Track
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Imperial, CA



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100 1st Avenue West
Oskaloosa, Iowa 52577
800/825-6020

BRAND TITLE	SCALE: SEE DIM
ATTACHMENT DETAILS	
REVISIONS	REFERENCES

PROJECT NO.	123173
DATE:	06/23/2022
DRAWN BY:	H.Sabers
DRAWING NO.	3 OF 5 MD1

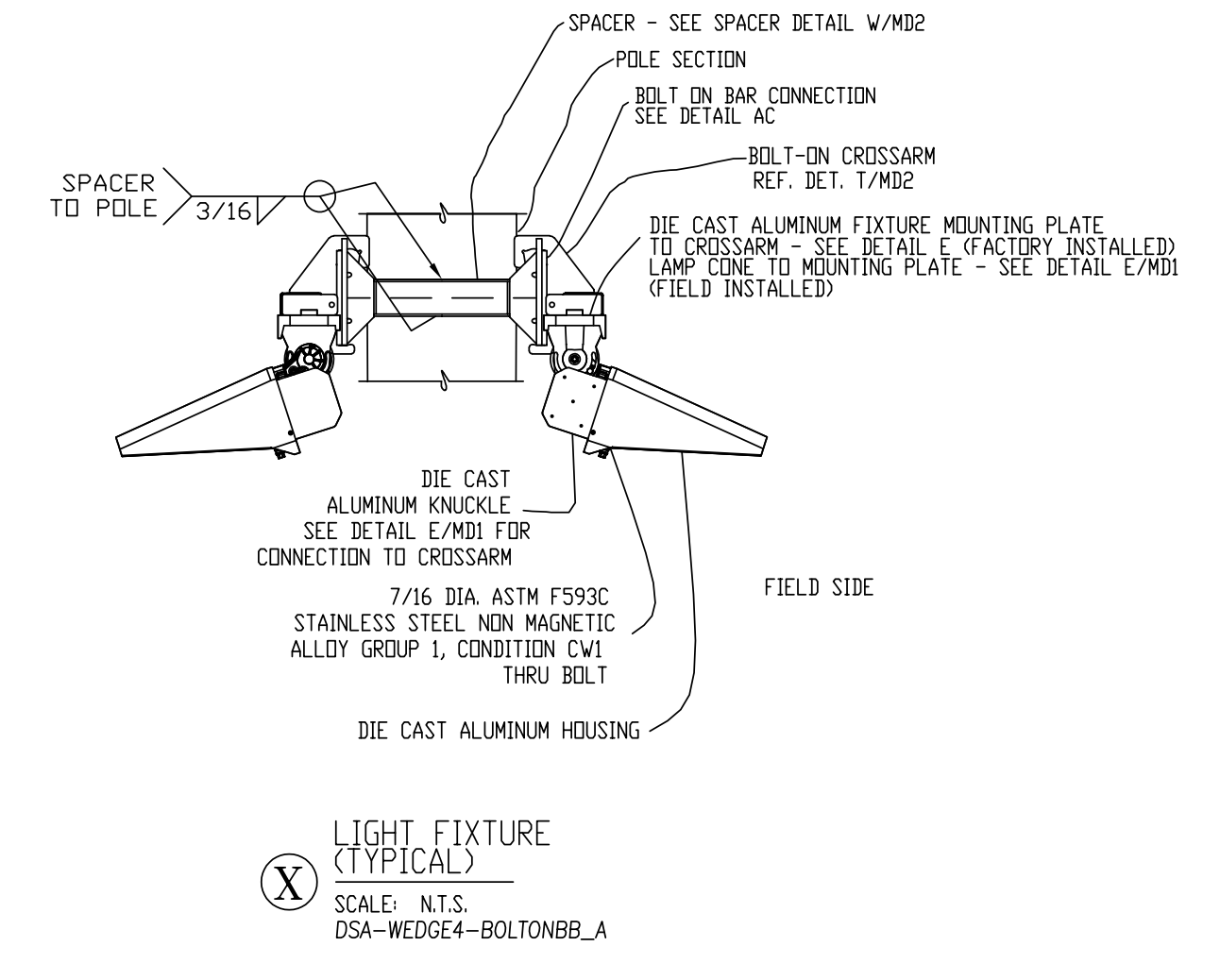
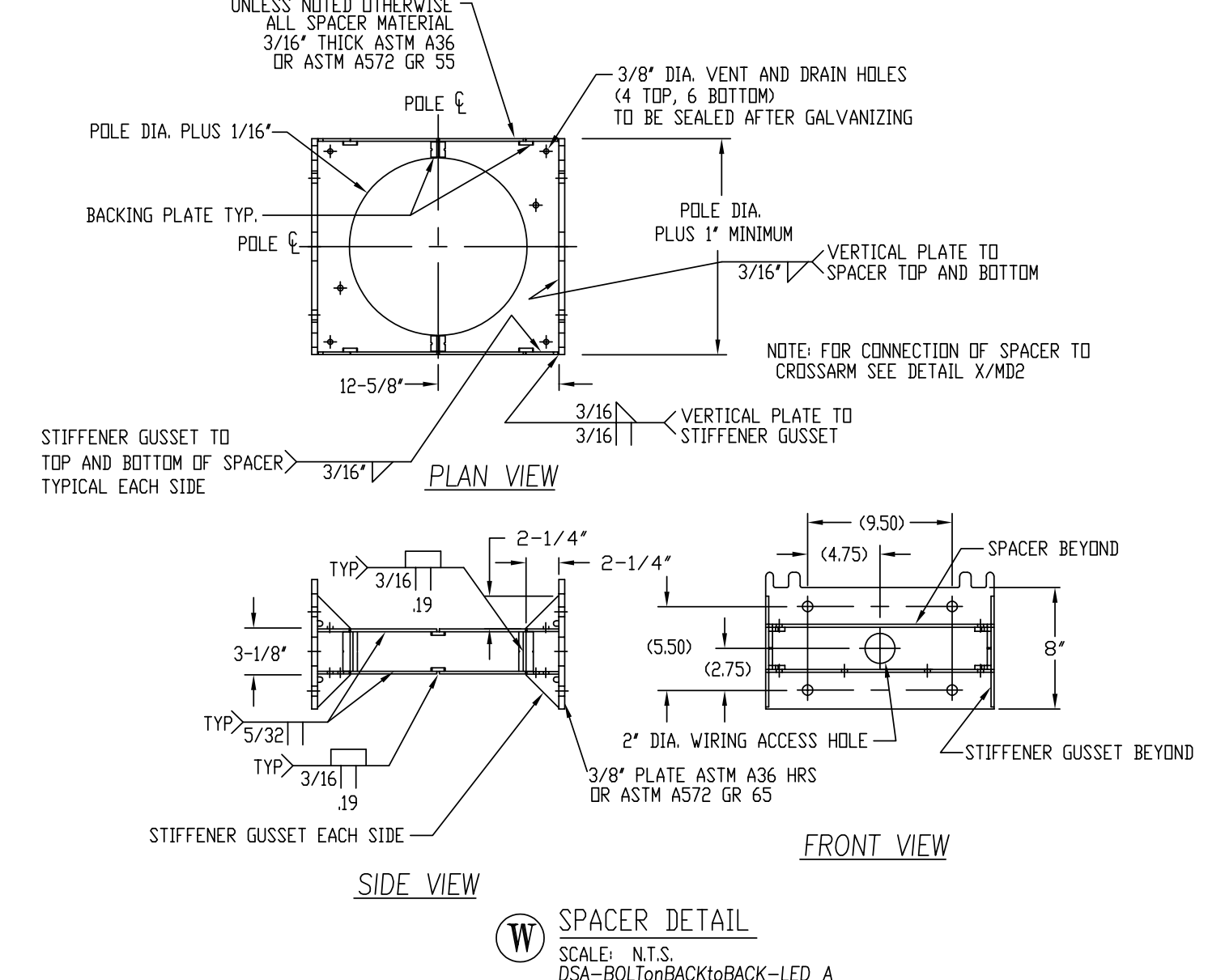
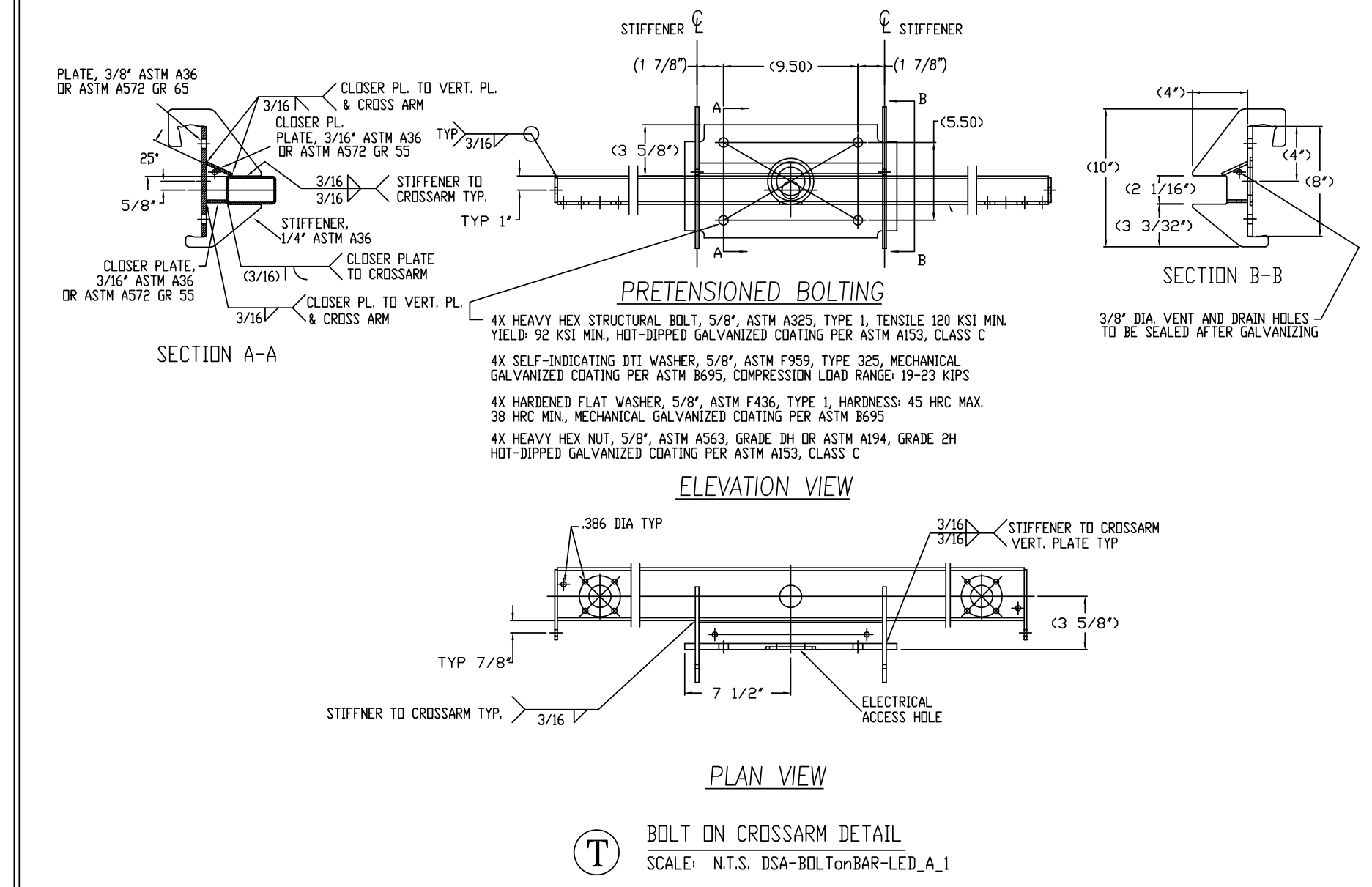
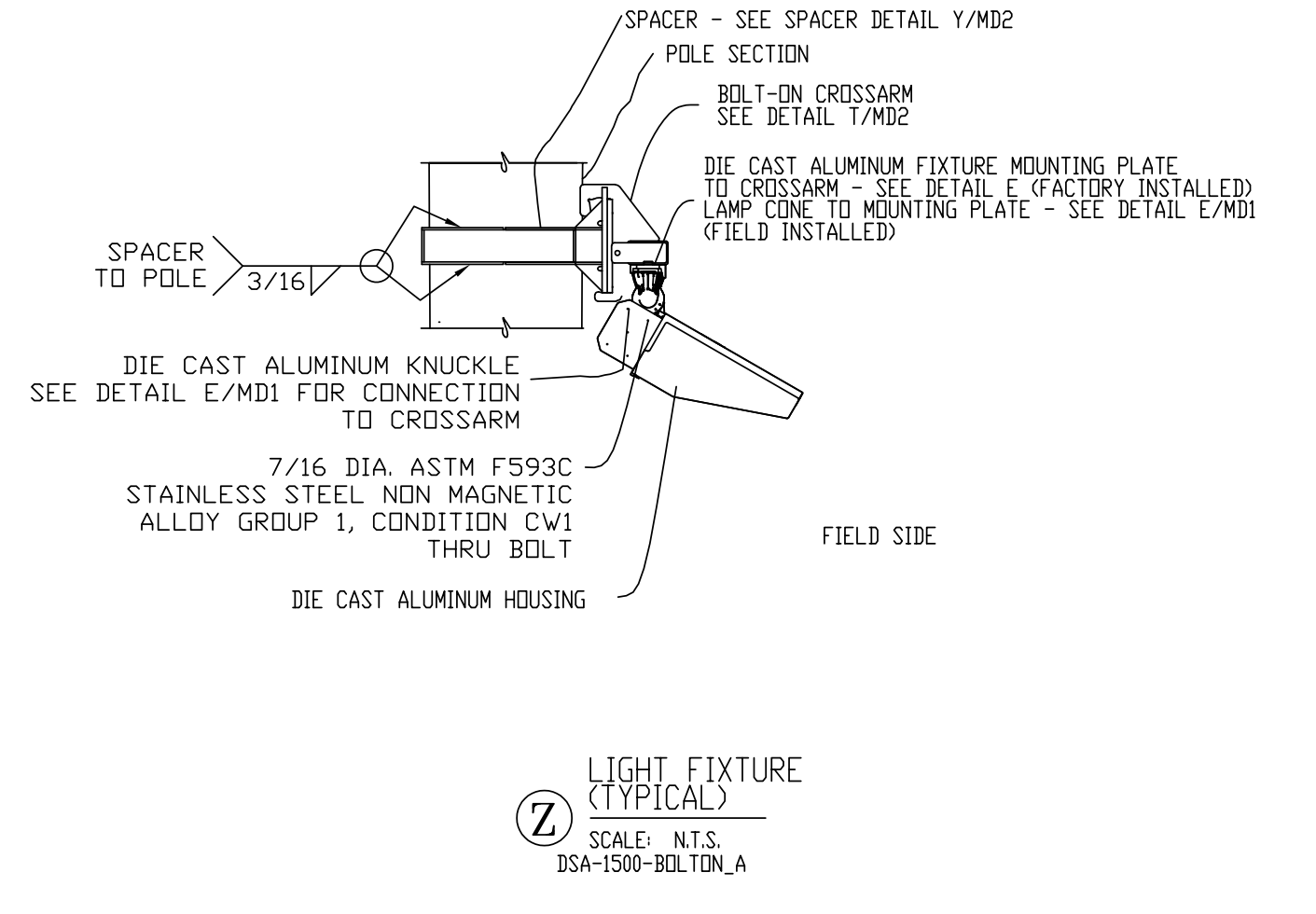
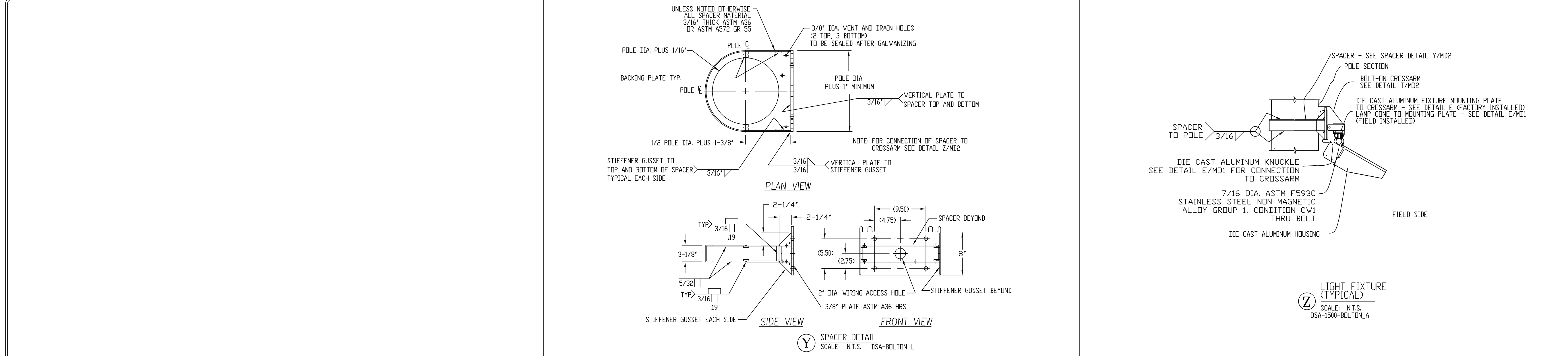
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Project Title
IMPERIAL VALLEY COLLEGE RESTROOM/CONCESSION

Sheet Title
ATTACHMENT DETAILS

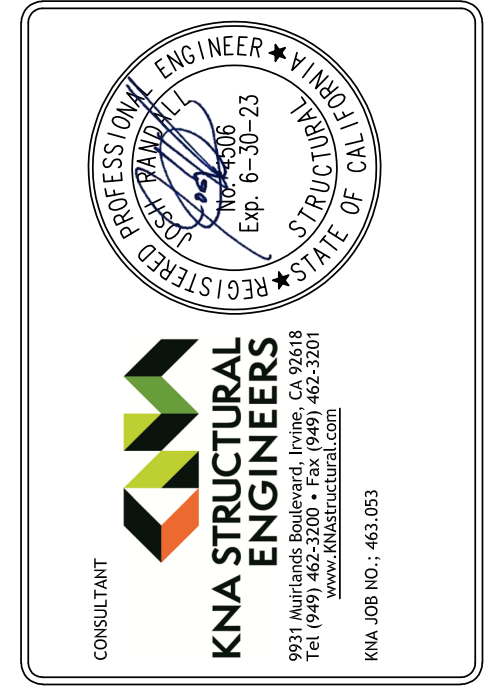
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	Date Last Revised	Sheet Number MD1

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Imperial Valley College Track
FIELD LIGHTING
Imperial, CA



MUSCO
Lighting
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DRAWING TITLE: ATTACHMENT DETAILS	SCALE: SEE PLAN
REVISIONS:	REFERENCE:

PROJECT NO: 123173

DATE: 06/23/2022

DRAWN BY: H.Sabers

DRAWING NO: MD2

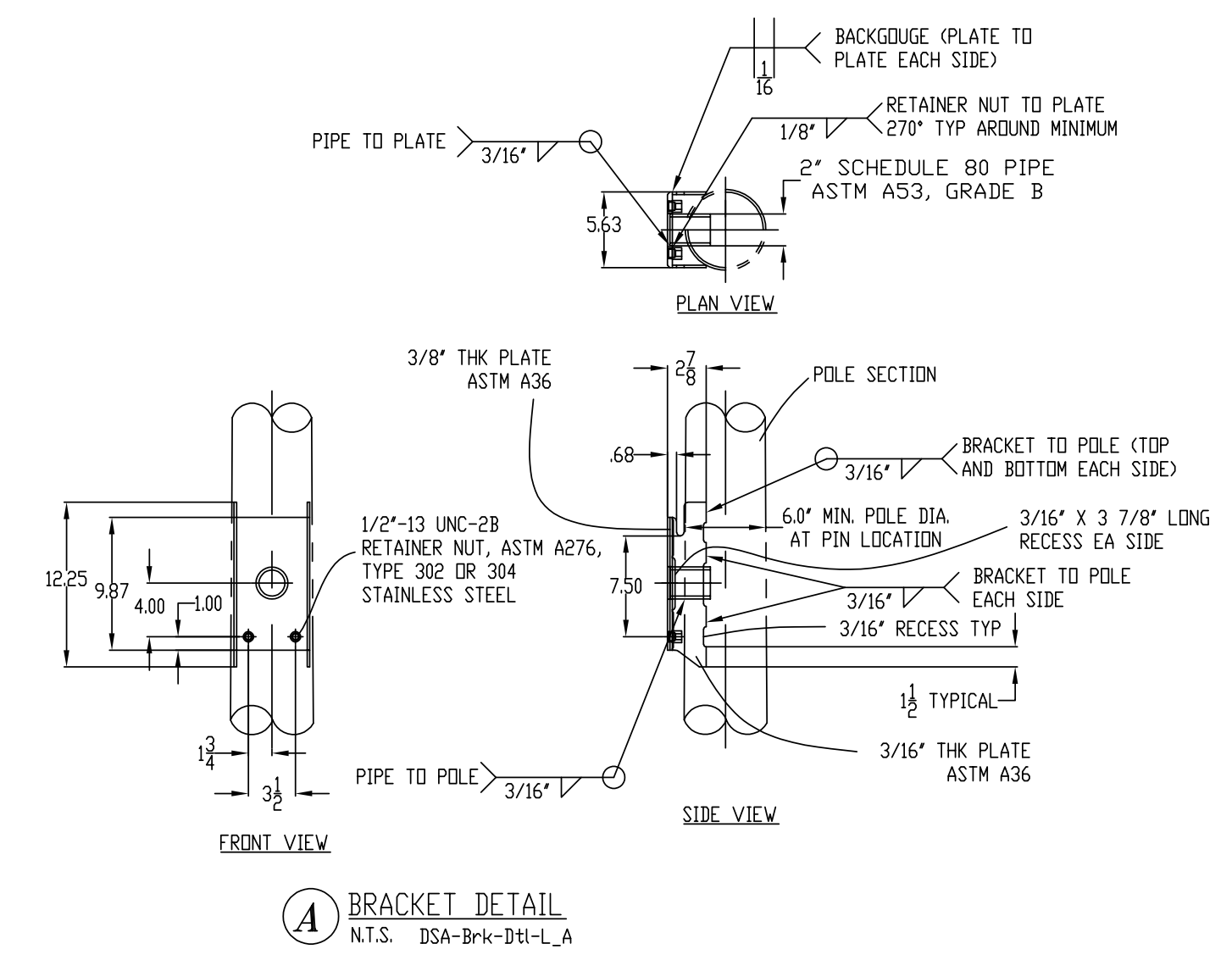
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Project Title
**IMPERIAL VALLEY COLLEGE
RESTROOM/CONCESSION**

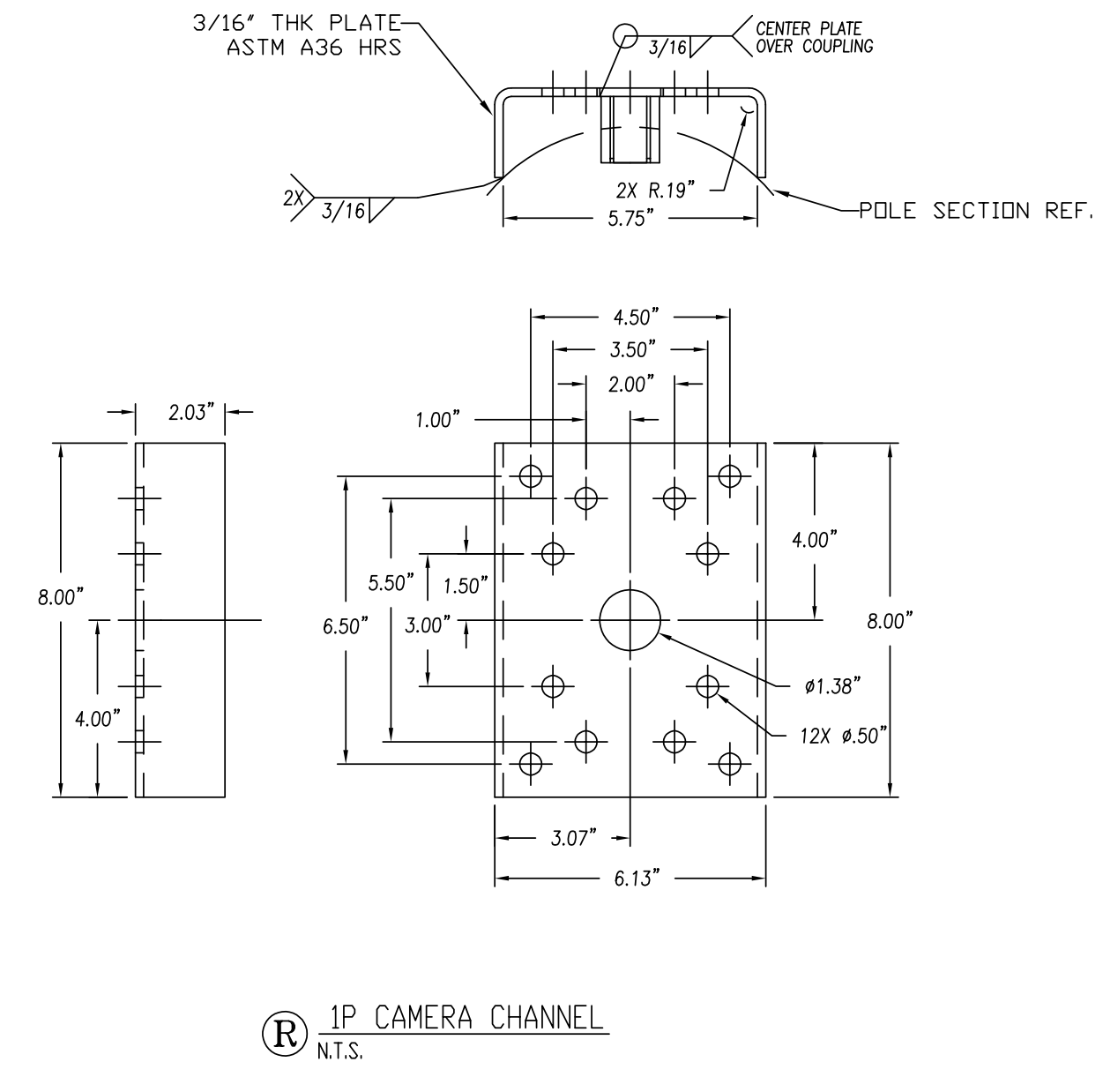
Sheet Title
ATTACHMENT DETAILS

	Document Date 08-19-22	Project Number 22-091V
	Date Last Revised	Sheet Number MD2

APPROVALS



BRACKET DETAIL
N.T.S. DSA-BPK-DH-L-A



1P CAMERA CHANNEL
N.T.S.

Imperial Valley College Track
FIELD LIGHTING
Imperial, CA



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Lighting

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BRAND TITLE	SCALE	SEE PLAN
ATTACHMENT	DETAILS	
REVISIONS		REVISIONS

PROJECT NO.	123173
DATE	06/23/2022
DRAWN BY	H.Sabers
DRAWING NO.	MD3

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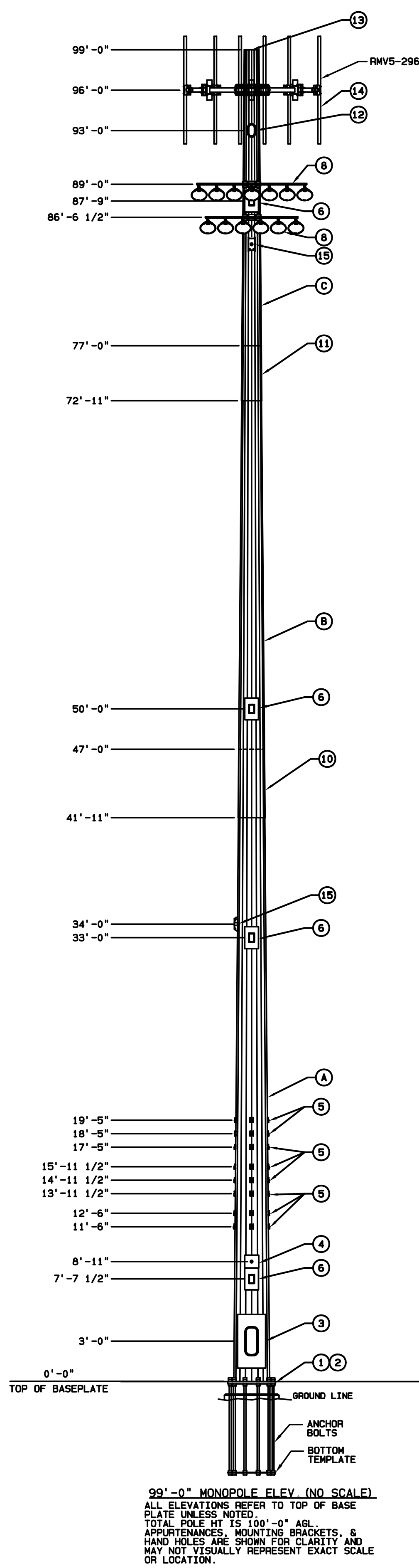
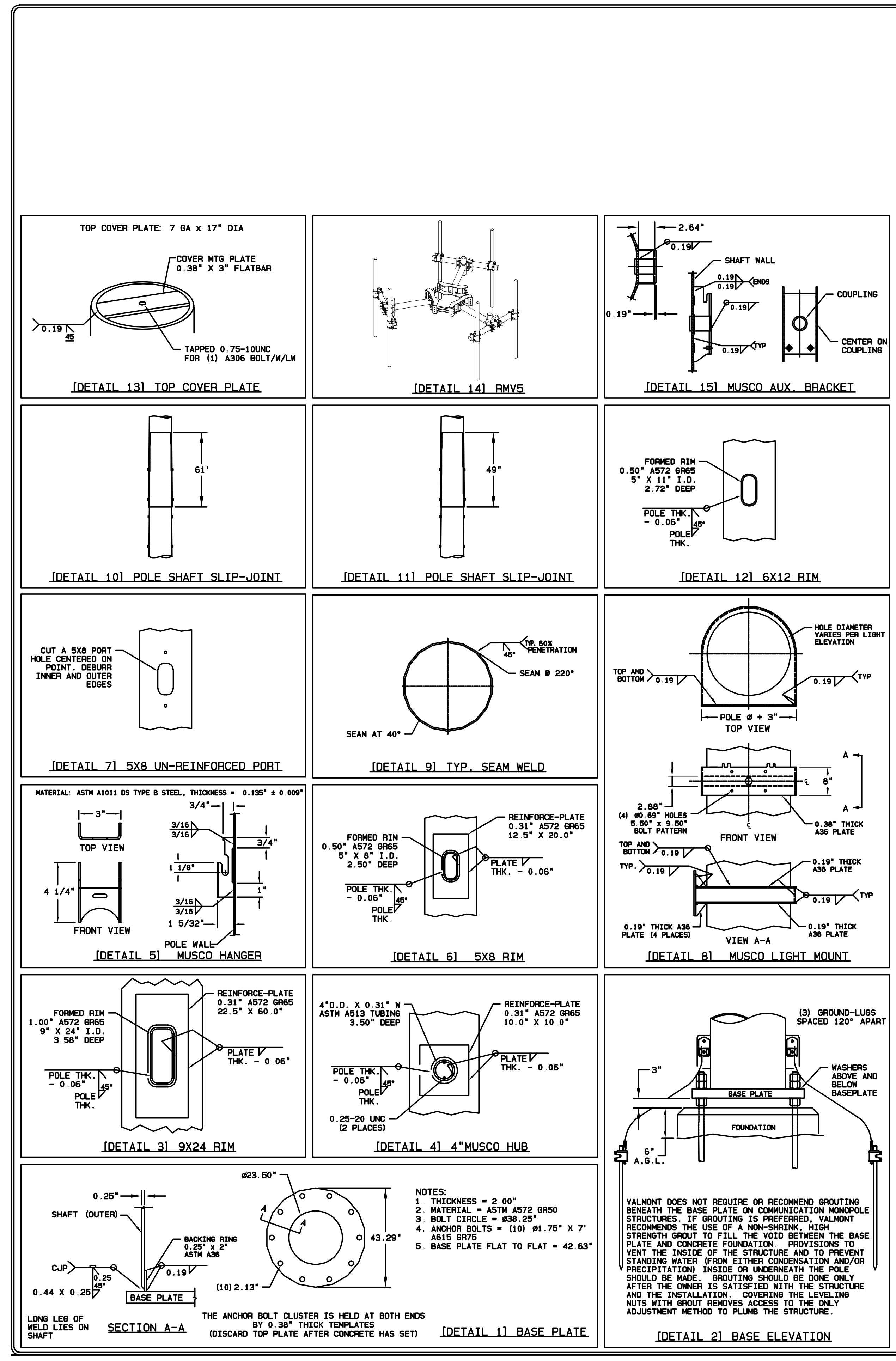
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Project Title
**IMPERIAL VALLEY COLLEGE
RESTROOM/CONCESSION**

ATTACHMENT DETAILS

	Document Date	08-19-22	Project Number	22-091V
	Date Last Revised		Sheet Number	MD3

APPROVALS



SECTION INFORMATION					
ITEM ID	LENGTH	BASE OD	TOP OD	THK	MATL
A	47'-0.00"	32.00"	22.62"	0.250"	A572 65 KSI
B	35'-1.00"	24.01"	17.01"	0.188"	A572 65 KSI
C	26'-1.00"	18.20"	13.00"	0.188"	A572 65 KSI

NO. REGD.	FEATURES	UNIT WEIGHT (LBS)	
		WEIGHT (LBS)	WEIGHT (LBS)
1	SECTION A VALMONT S-22 0.250" THK (A572 GR65)	3,416	3,416
1	SECTION B VALMONT S-22 0.188" THK (A572 GR65)	1,435	1,435
1	SECTION C VALMONT S-22 0.188" THK (A572 GR65)	808	808
1	BOTTOM CAGE PLATE	78	78
10	1.75" ANCHOR BOLT, LENGTH=7.00' A615 GR75	78	779
1	BASE PLATE VALMONT S-56 2.000" THK (A572 GR50)	552	552
1	TOP CAGE PLATE (REMOVE BEFORE SETTING POLE)	102	102
3	GROUNDING LUG	2	6
	GALVANIZING	183	183
1	HAND HOLE HVY (9" x 24")	66	66
1	HAND HOLE (5" x 8") @ 270°	15	15
1	HAND HOLE (5" x 8") @ 270°	15	15
1	HAND HOLE (5" x 8") @ 180°	15	15
1	HAND HOLE (5" x 8") @ 270°	15	15
3	HAND HOLE STD (6" x 12")	22	66
1	POLE CAP	11	11

NOTES:

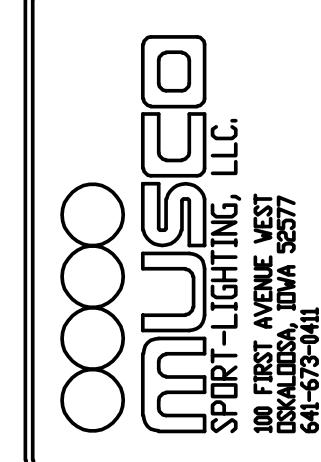
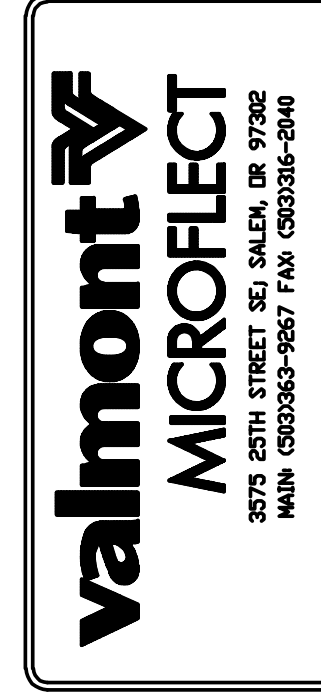
- FACTORED BASE REACTIONS
 MOMENT = 7,943 IN-KIPS
 SHEAR = 10,326 #
 VERTICAL = 10,860 #
- GALVANIZED PER ASTM A-123.
- DESIGN CRITERIA: TIA-222-H
- EXPOSURE CATEGORY = C
- THIS STRUCTURE HAS BEEN DESIGNED FOR THE FOLLOWING LOADING:
 TOPOGRAPHY CATEGORY = 1
 RISK CATEGORY = III
 SITE ELEVATION = -61 FT
 EARTHQUAKE SPECTRAL RESPONSE ACCELERATION AT SHORT PERIODS SS = 2.23
 EARTHQUAKE SPECTRAL RESPONSE ACCELERATION AT ONE SECOND S1 = 0.80
 EARTHQUAKE SITE CLASS = E
 WIND LOAD CASES ARE BASED ON 3 SECOND GUST AND 1700 YEAR MRI
 A. CASE 1: WIND = 116 MPH WIND SPEED
 B. CASE 2: WIND = 60 MPH WIND SPEED
 C. CASE 3: SEISMIC
 D. CASE 4: SEISMIC
 E. EQUIPMENT

DESCRIPTION	ABP		WITHOUT ICE		WITH ICE	
	HT. (FT)	WT (LBS)	HT. (FT)	WT (LBS)	HT. (FT)**2	WT (LBS)
1-RMV5-296	96.00	96.00	3.65	679	3.65	679
7-SPORTS LIGHTS	89.00	89.00	22.40	280	22.40	280
1-C87	89.00	89.00	6.10	176	6.10	176
6-SPORTS LIGHTS	86.54	86.54	19.20	240	19.20	240
1-CR6	86.54	86.54	5.13	150	5.13	150
2-2P LED-400	89.00	89.00	20.00	200	20.00	200
2-2P TRUNNION SPEAKERS	34.00	34.00	20.00	200	20.00	200
2-BALLAST BOX 6PX	18.00	18.00	14.20	100	14.20	100
2-BALLAST BOX 6PX	16.00	16.00	14.20	100	14.20	100
1-BALLAST BOX 4PX	12.50	12.50	5.50	50	5.50	50
1-1/2" X 4" LIGHTNING ROD LIGH	99.00	101.00	0.20	14	0.20	14
6-HJAMEI ADU4518RVD0 UNKNOWN	96.00	96.00	23.91	332	23.91	332
6-HJAMEI RRU3256 AMPS	96.00	96.00	6.17	258	6.17	258



NOTE:
THIS IS NOT AN
INSTALLATION DRAWING

06/23/2022
VSE Project Number: U1347-109-221



99'-0" POLE, AGL LIGHTING/CELLULAR MONOPOLE
MUSCO
IMPERIAL, CA

REVISED: 06/14/2022
A- UPDATED DETAIL 1 KRC 06/23/2022

PROJECT NO: 545009-P1
DATE: 06/14/2022
DRAWN BY: KRC
DRAWING NO: PL3.1
SHEET: 1 of 2

Sanders, INC.
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Project Title
**IMPERIAL VALLEY COLLEGE
RESTROOM/CONCESSION**

Sheet Title
POLE S3 DRAWINGS

	Document Date	Project Number
	08-19-22	22-091V
	Date Last Revised	Sheet Number
		PL3.1

FOUNDATION NOTES:

FOUNDATION DESIGN IS BASED ON THE FOLLOWING GEOTECHNICAL REPORT:
 LANDMARK CONSULTANTS, INC.
 REPORT: LE22111
 DATE: JUNE 17, 2022

1. ALL CONCRETE SHALL USE TYPE V PORTLAND CEMENT AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4500 PSI AT 28 DAYS. CONCRETE SHALL HAVE A MINIMUM OF 6% ENTRAINED AIR (WHERE FROST DEPTH > 0"). CONCRETE SHALL HAVE A MAXIMUM WATER/CEMENT RATIO OF 0.45. CONCRETE SHALL HAVE A SLUMP OF 5" (±1") UNLESS OTHERWISE SPECIFIED IN THE GEOTECHNICAL REPORT. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH "THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE," ACI 318-14. FOUNDATION INSTALLATION SHALL BE IN ACCORDANCE WITH ACI 336, "STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF DRILLED PIERS," LATEST EDITION.
2. REINFORCING STEEL SHALL CONFORM WITH THE REQUIREMENTS OF ASTM A-615, GRADE 60. ALL REINFORCING DETAILS SHALL CONFORM TO "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES," ACI 315, LATEST EDITION, UNLESS DETAILED OTHERWISE ON THIS DRAWING.
3. INSTALLATION OF FOUNDATION MUST BE OBSERVED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER FIRM. GEOTECHNICAL ENGINEER TO PROVIDE A NOTICE OF INSPECTION FOR THE BUILDING INSPECTOR FOR REVIEW AND RECORD PURPOSES.
4. CONTRACTOR SHALL REFER TO GEOTECHNICAL REPORT FOR INFORMATION REGARDING INSTALLATION METHOD, REQUIRED INSTALLATION EQUIPMENT, AND ALL OTHER REQUIREMENTS RELATED TO THE INSTALLATION OF THE PIER.
5. MONOPOLE MAY BE ERECTED 3-DAYS AFTER FOUNDATION IS INSTALLED AND ONCE CONCRETE STRENGTH IS AT LEAST 4500 PSI.

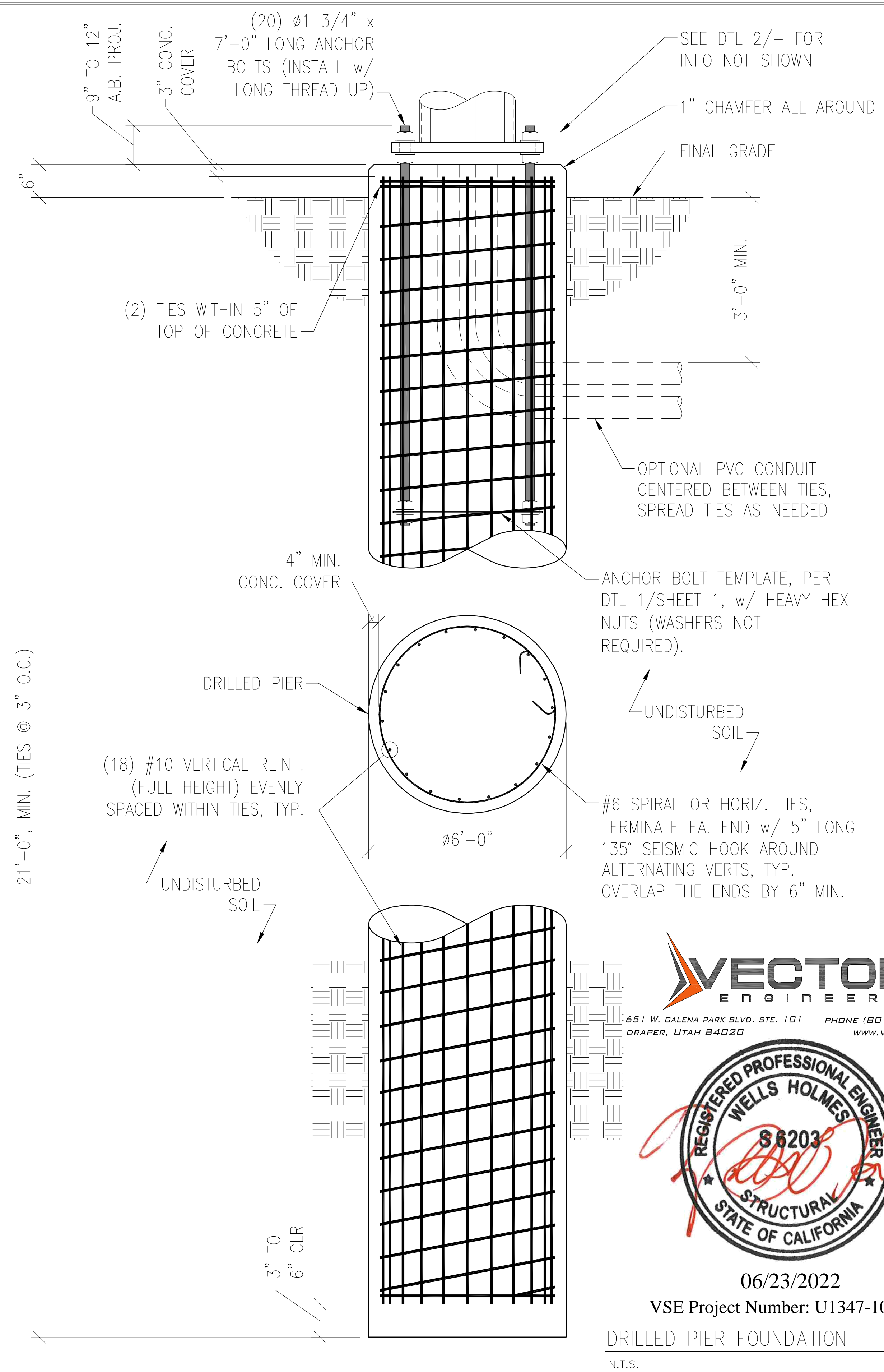
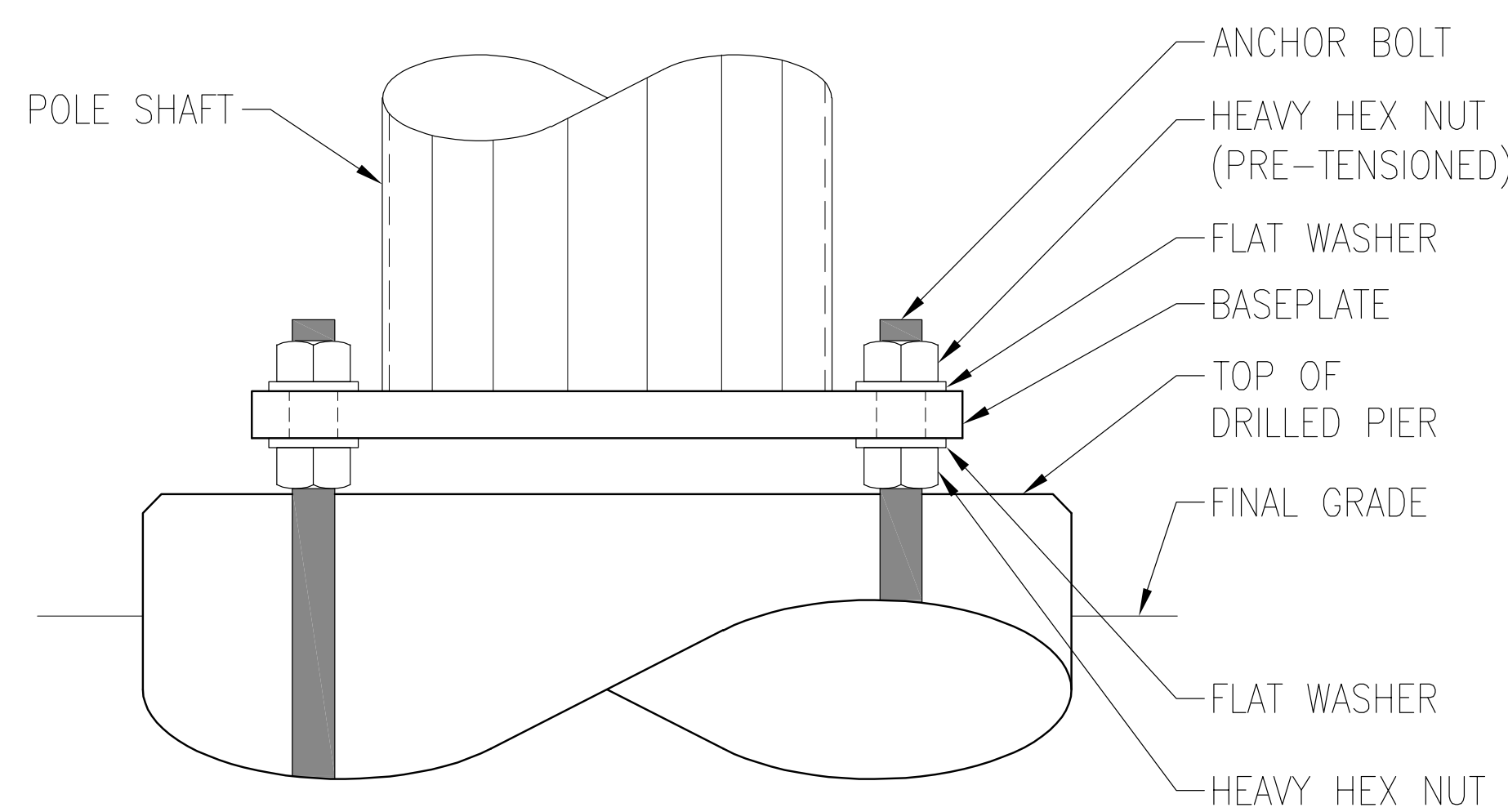
SPECIAL INSPECTIONS:

1. STEEL FABRICATION SHALL BE DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION.
2. NO FIELD WELDING SHALL BE PERMITTED
3. THE FOLLOWING SPECIAL INSPECTIONS SHALL BE REQUIRED PER CHAPTER 17A OF THE BUILDING CODE:

- CONTINUOUS SPECIAL INSPECTION OF DRILLING OPERATIONS FOR PIER FOUNDATIONS
- CONTINUOUS SPECIAL INSPECTION TO VERIFY LOCATION, PLUMBNESS, DIAMETER, AND LENGTH OF PIER FOUNDATIONS
- PERIODIC SPECIAL INSPECTION OF PLACEMENT OF REINFORCING STEEL
- CONTINUOUS SPECIAL INSPECTION OF ANCHOR BOLTS PRIOR TO AND DURING CONCRETE PLACEMENT
- CONTINUOUS SPECIAL INSPECTION OF CONCRETE PLACEMENT

STRUCTURAL OBSERVATION:

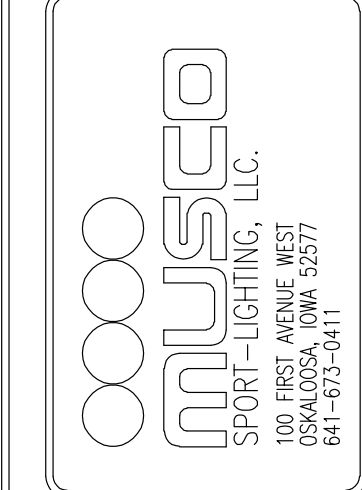
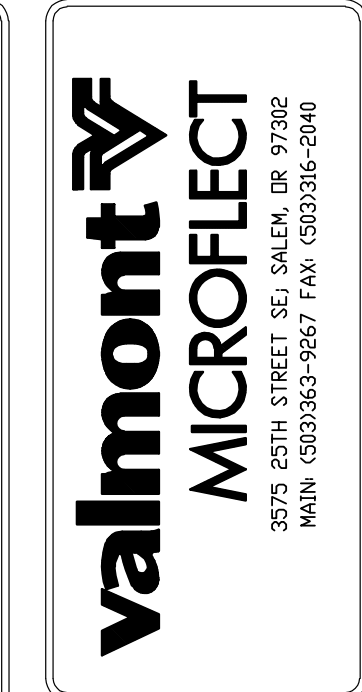
- A DSA 6 VERIFIED REPORT IS REQUIRED—S.E.O.R. IS RESPONSIBLE FOR:
- OBSERVATION OF REBAR CAGE PRIOR TO CONCRETE PLACEMENT
 - OBSERVATION OF INSTALLED MONOPOLE UPON COMPLETION OF CONSTRUCTION



VECTOR ENGINEERS
 651 W. GALENA PARK BLVD. STE. 101 DRAPER, UTAH 84020
 PHONE (801) 990-1775 WWW.VECTORSE.COM



06/23/2022
 VSE Project Number: U1347-109-221
 DRILLED PIER FOUNDATION
 N.T.S.



99'-0" POLE, ACL LIGHTING/CELLULAR MONOPOLE
 MUSCO
 IMPERIAL, CA

DRAWING TITLE: 99'-0" POLE, ACL LIGHTING/CELLULAR MONOPOLE	REVISIONS: UPDATED FOUNDATION VSE-CTF 6/23/22	REFERENCE:
PROJECT NO: S46009-P1	DATE: 06/23/2022	DRAWN BY: VSE-CTF
DRAWING NO: PL3.2	SHEET: 2 of 2	

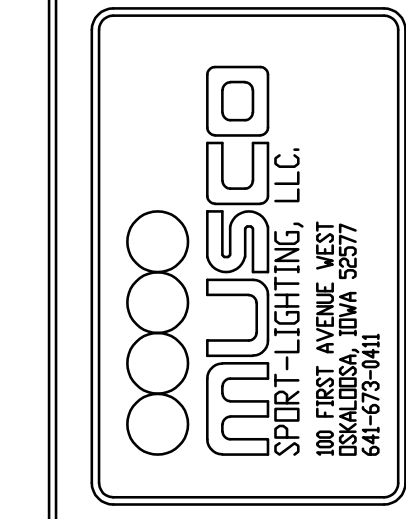
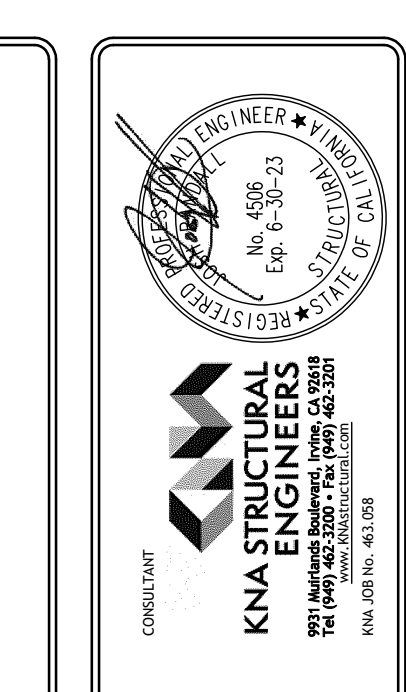
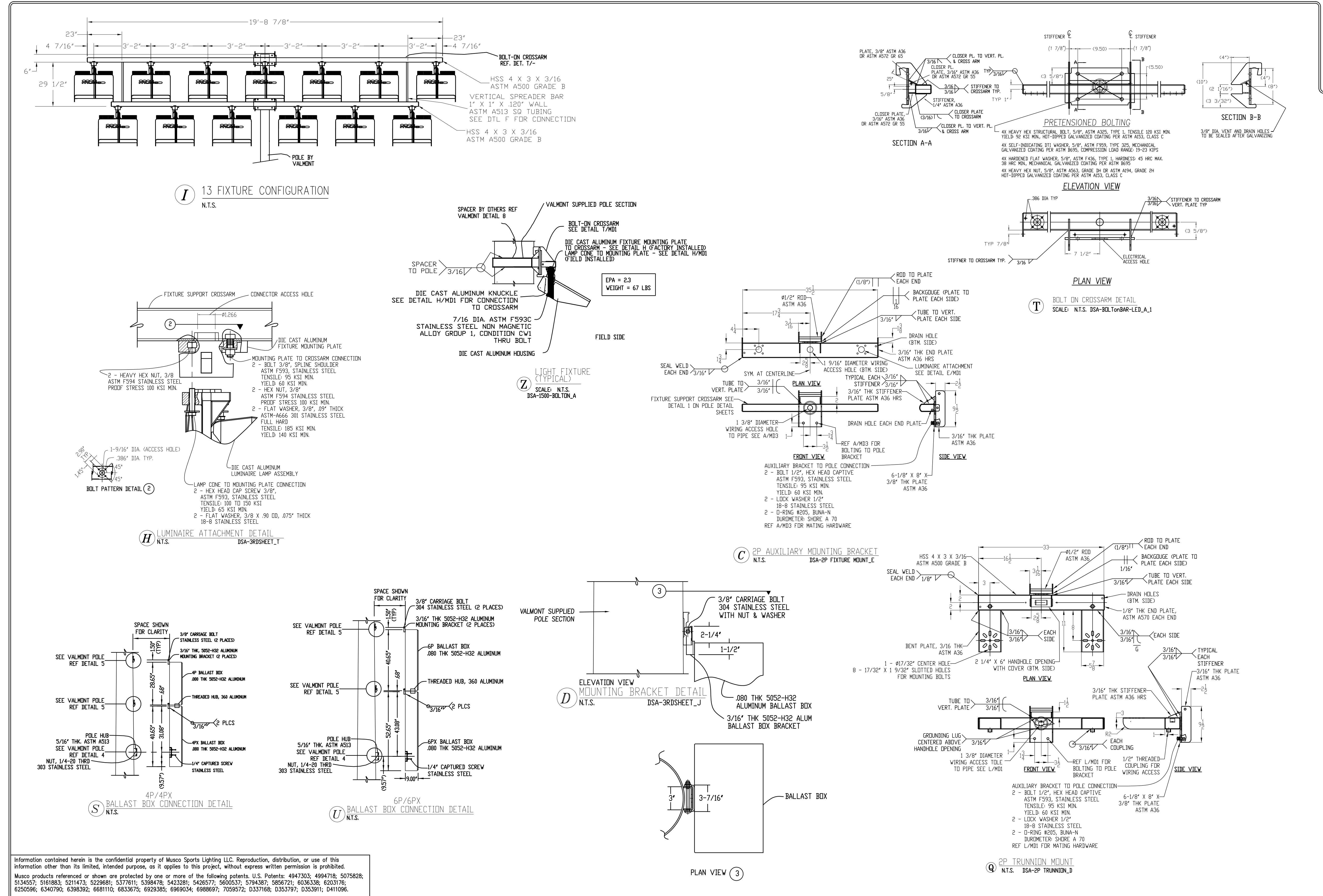
APPROVALS

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 EL CENTRO, CA 92243
 760 353 5440 FAX 760 353 5442

Project Title
**IMPERIAL VALLEY COLLEGE
 RESTROOM/CONCESSION**

POLE S3 ATTACHMENT DETAILS

	Document Date 08-19-22	Project Number 22-091V
	Date Last Revised	Sheet Number PL3.2



**IMPERIAL VALLEY COLLEGE
FIELD LIGHTING/CELL POLE
IMPERIAL, CA**

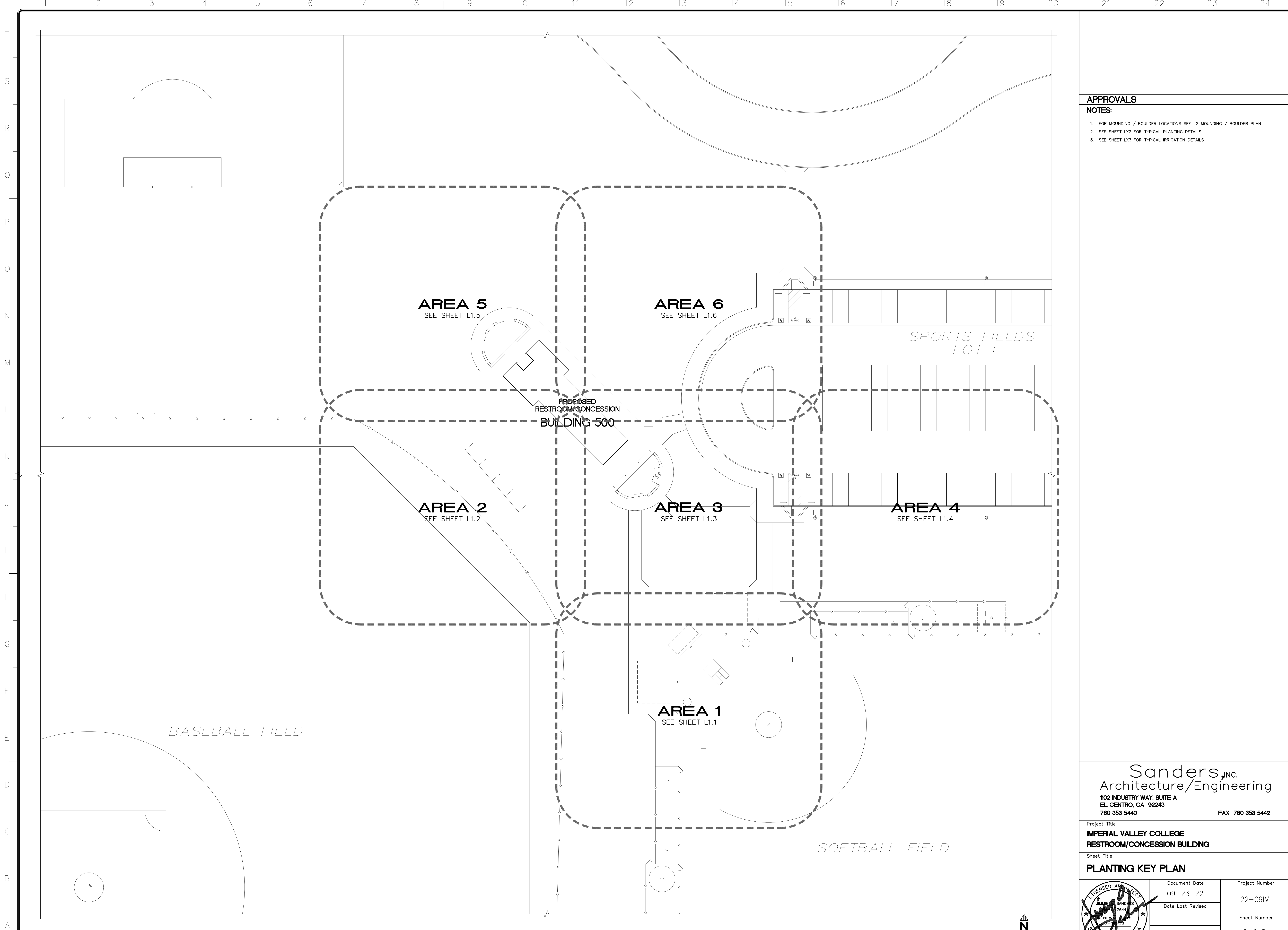
PROJECT TITLE
PROJECT NO.
DATE
DRAWN BY
DRAWING NO.

218553
6/20/22
AMULLEN
PL3.3

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<p>Sanders, INC. Architecture/Engineering 102 INDUSTRY WAY, SUITE A EL CENTRO, CA 92243 760 353 5440 FAX 760 353 5442</p>		
<p>Project Title IMPERIAL VALLEY COLLEGE RESTROOM/CONCESSION</p>	<p>Document Date 08-19-22</p>	<p>Project Number 22-091V</p>
<p>Sheet Title POLE S3 DETAILS</p>	<p>Date Last Revised</p>	<p>Sheet Number PL3.3</p>
	<p>Document Date 08-19-22</p>	<p>Project Number 22-091V</p>
<p>DATE 08-19-22</p>	<p>Date Last Revised</p>	<p>Sheet Number PL3.3</p>

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APPROVALS

NOTES:

1. FOR MOUNDING / BOULDER LOCATIONS SEE L2 MOUNDING / BOULDER PLAN
2. SEE SHEET L2 FOR TYPICAL PLANTING DETAILS
3. SEE SHEET L3 FOR TYPICAL IRRIGATION DETAILS

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 760 353 5440 FAX 760 353 5442


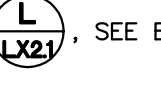
Project Title
**IMPERIAL VALLEY COLLEGE
 RESTROOM/CONCESSION BUILDING**

Sheet Title
PLANTING KEY PLAN

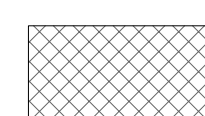
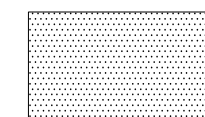
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	Date Last Revised	Sheet Number L1.0

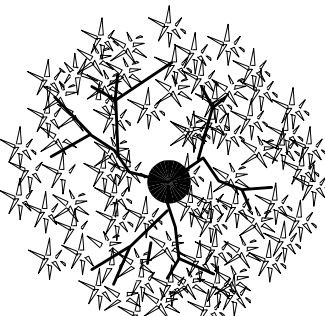
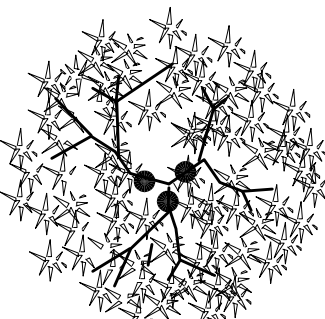

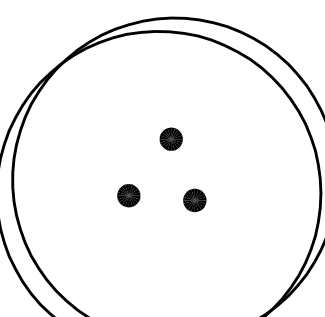
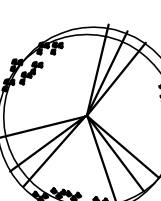


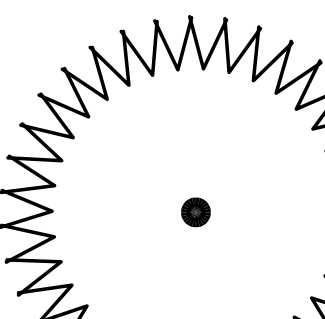
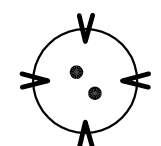
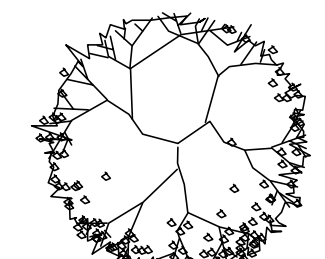

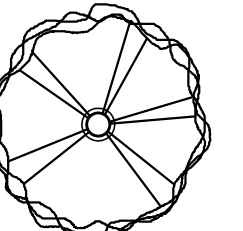
SEE L1.3 FOR CONTINUATION

KEYNOTES:

- ① RAISED LANDSCAPE MOUND PER 
- ② BOULDERS: "DESERT SAND" SMOOTH PER  SEE BOULDER PLAN
- ③ CONCRETE BENCH
- ④ EXTENT OF HYDROSEEDING
- ⑤ BACKFLOW PREVENTOR BY OTHER BID PACKAGE
- ⑥ EXISTING SCORE BOARD - PROTECT

LEGEND:

-  **GRASS**
PROVIDE HYDROSEED GRASS FINISH 3" BELOW SIDEWALK OR MOW CURB
-  **XEROSCAPE**
PROVIDE DECOMPOSED GRANITE DECOMPOSED GRANITE (DGL) - "DESERT GOLD", 4" THICK MOISTURE CONDITION: COMPACT TO 95% MAX DENSITY

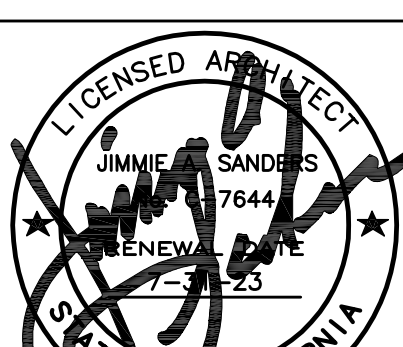
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RHUS LANCEA
-  **AFRICAN SUMAC (MULTI-TRUNK)**
RHUS LANCEA
-  **BOXWOOD BEAUTY SHRUB**
CARISSA MACROCARPA
-  **CAJEPUT TREE**
CARISSA MACROCARPA
-  **CASCALOTE**
CAESALPINIA CASALPICO SMOOTHIE (THORNLESS HYBRID)
-  **DEER GRASS**
MULLENBERGIA RIGENS
-  **GREEN CLOUD TEXAS RANGER**
LEUCOPHYLLUM FRUTESCENS
-  **INDIAN ROSEWOOD**
DALBERGIA SISBOO
-  **SILVER MOUND LANTANA**
LANTANA CAMARA "SILVER MOUND"
-  **OLIVE TREE - FRUITLESS**
OLEA EUROPAEA "MOTHER WILSONII"
-  **RED YUCCA**
HESPERALOE PARVIFLORA
-  **WILLOW ACACIA**
ACACIA SALICINA

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Project Title
**IMPERIAL VALLEY COLLEGE
 RESTROOM/CONCESSION BUILDING**

Sheet Title
PLANTING PLAN

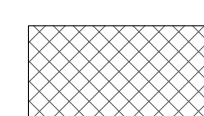


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	Date Last Revised	Sheet Number L1.1

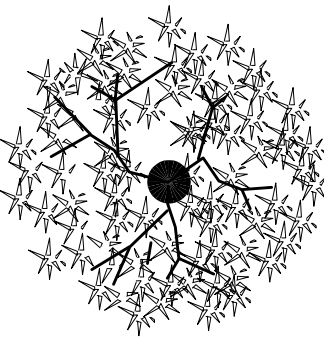
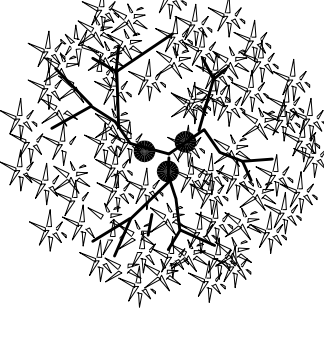

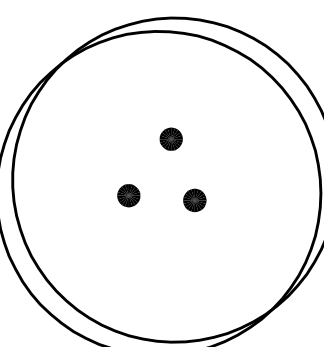
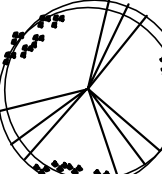


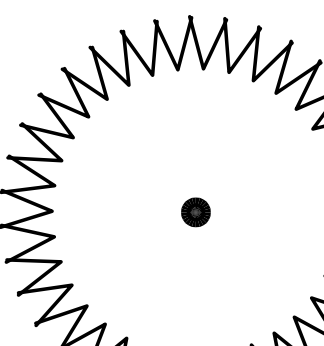
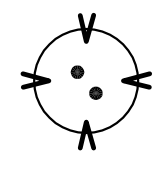
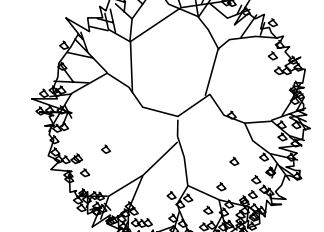

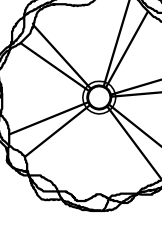
SEE L1.5 FOR CONTINUATION

KEYNOTES:

- ① RAISED LANDSCAPE MOUND PER  K L1.1
- ② BOULDERS: "DESERT SAND" SMOOTH PER  L L1.1, SEE BOULDER PLAN
- ③ CONCRETE BENCH
- ④ EXTENT OF HYDROSEEDING
- ⑤ BACKFLOW PREVENTOR BY OTHER BID PACKAGE
- ⑥ EXISTING SCORE BOARD - PROTECT

LEGEND:

-  **GRASS**
PROVIDE HYDROSEED GRASS PER  K L1.1 OR MOW CURB
-  **XEROSCAPE**
PROVIDE DECOMPOSED GRANITE (GOL) - "DESERT GOLD", 4" THICK
MOISTURE CONDITION: COMPACT TO 95% MAX DENSITY

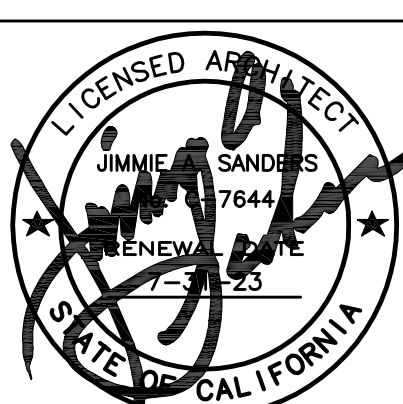
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RHUS LANCEA
-  **AFRICAN SUMAC (MULTI-TRUNK)**
RHUS LANCEA
-  **BOXWOOD BEAUTY SHRUB**
CARISSA MACROCARPA
-  **CAJEPUT TREE**
CARISSA MACROCARPA
-  **CASCALOTE**
CAESALPINIA GAMBALCO SMOOTHIE (THORNLESS HYBRID)
-  **DEER GRASS**
MUHLENBERGIA RIGENS
-  **GREEN CLOUD TEXAS RANGER**
LEUCOPHYLLUM FRUTESCENS
-  **INDIAN ROSEWOOD**
DALBERGIA SISSECO
-  **SILVER MOUND LANTANA**
LANTANA CAMARA "SILVER MOUND"
-  **OLIVE TREE - FRUITLESS**
OLEA EUROPAEA "MOTHER WILSONII"
-  **RED YUCCA**
HESPERALOE PARVIFLORA
-  **WILLOW ACACIA**
ACACIA SALICINA

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Project Title
**IMPERIAL VALLEY COLLEGE
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Sheet Title
PLANTING PLAN

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	Date Last Revised	Sheet Number L1.2

SEE L1.3 FOR CONTINUATION

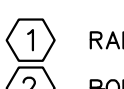
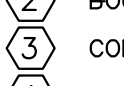
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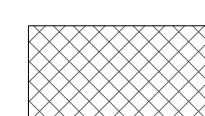

SEE L1.6 FOR CONTINUATION

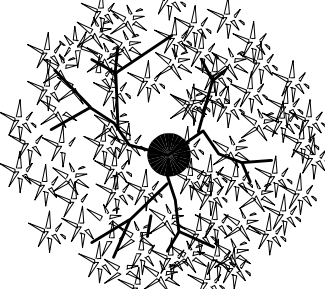
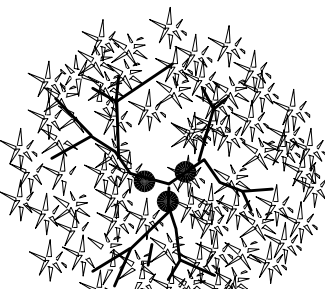

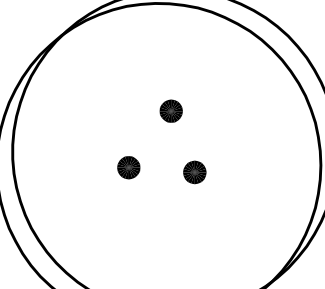
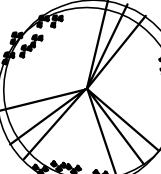


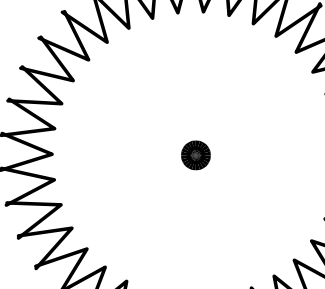
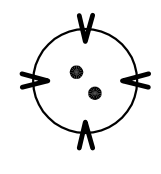
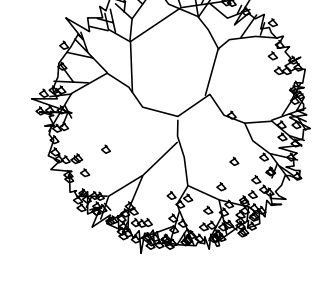

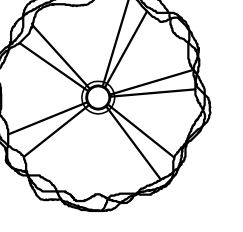
SEE L1.1 FOR CONTINUATION

SEE L1.2 FOR CONTINUATION

SEE L1.4 FOR CONTINUATION

- KEYNOTES:**
- ① RAISED LANDSCAPE MOUND PER  **K**
 - ② BOULDERS: "DESERT SAND" SMOOTH PER  **LX37**, SEE BOULDER PLAN
 - ③ CONCRETE BENCH
 - ④ EXTENT OF HYDROSEEDING
 - ⑤ BACKFLOW PREVENTOR BY OTHER BID PACKAGE
 - ⑥ EXISTING SCORE BOARD - PROTECT

- LEGEND:**
-  **GRASS**
PROVIDE HYDROSEED GRASS, FINISH W/ BELLOW SIDEWALK OR MOW CURB
 -  **XEROSCAPE**
PROVIDE DECOMPOSED GRANITE, DECOMPOSED GRANITE (G3) - "DESERT GOLD", 4" THICK, MOISTURE CONDITION: COMPACT TO 95% MAX DENSITY

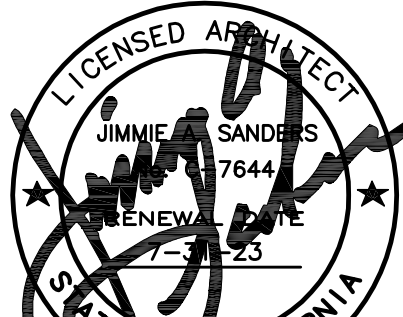
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RHUS LANCEA
-  **AFRICAN SUMAC (MULTI-TRUNK)**
RHUS LANCEA
-  **BOXWOOD BEAUTY SHRUB**
CARISSA MACROCARPA
-  **CAJEPUT TREE**
CARISSA MACROCARPA
-  **CASCALOTE**
CALIFORNIA CASALCOCO SMOOTHIE (FRUITLESS HYBRID)
-  **DEER GRASS**
MULLENBERGIA RIGENS
-  **GREEN CLOUD TEXAS RANGER**
LEUCOPHYLLUM FRUTESCENS
-  **INDIAN ROSEWOOD**
DALBERGIA SISSECO
-  **SILVER MOUND LANTANA**
LANTANA CAMARA "SILVER MOUND"
-  **OLIVE TREE - FRUITLESS**
OLEA EUROPAEA "MOTHER WILSONII"
-  **RED YUCCA**
HESPERALOE PARVIFLORA
-  **WILLOW ACACIA**
ACACIA SALICINA

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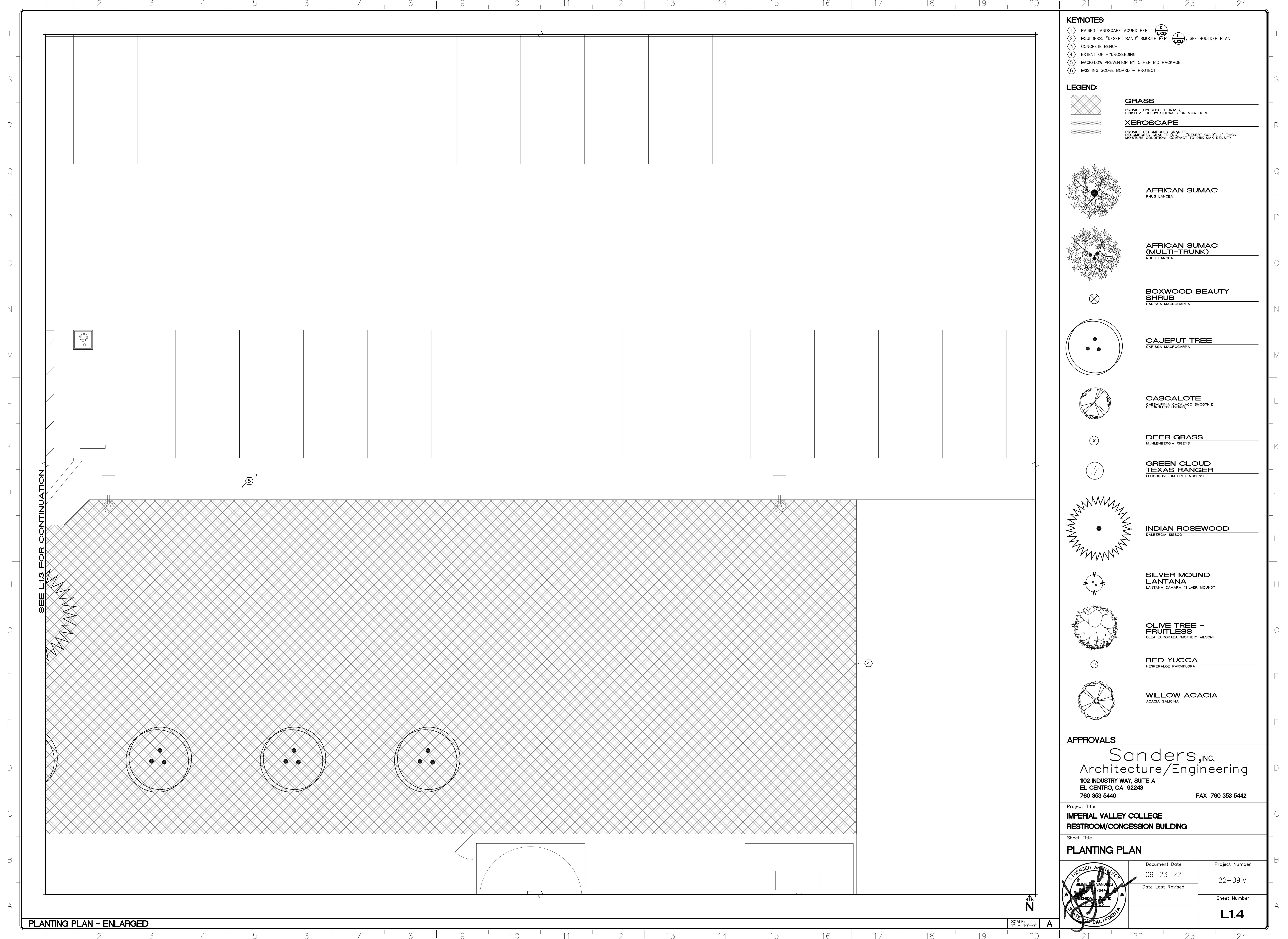
Project Title
**IMPERIAL VALLEY COLLEGE
RESTROOM/CONCESSION BUILDING**

Sheet Title
PLANTING PLAN

	Document Date 09-23-22	Project Number 22-091V
	Date Last Revised	Sheet Number L1.3

SCALE: 1" = 10'-0" A

PLANTING PLAN - ENLARGED



- KEYNOTES:**
- ① RAISED LANDSCAPE MOUND PER
 - ② BOULDERS: "DESERT SAND" SMOOTH PER SEE BOULDER PLAN
 - ③ CONCRETE BENCH
 - ④ EXTENT OF HYDROSEEDING
 - ⑤ BACKFLOW PREVENTOR BY OTHER BID PACKAGE
 - ⑥ EXISTING SCORE BOARD - PROTECT

- LEGEND:**
- GRASS**
PROVIDE HYDROSEED GRASS
FINISH 1" BELOW SIDEWALK OR MOW CURB
 - XEROSCAPE**
PROVIDE DECOMPOSED GRANITE
DECOMPOSED GRANITE (GG) - "DESERT GOLD", 4" THICK
MOISTURE CONDITION: COMPACT TO 95% MAX DENSITY

- AFRICAN SUMAC**
RHUS LANCEA
- AFRICAN SUMAC (MULTI-TRUNK)**
RHUS LANCEA
- BOXWOOD BEAUTY SHRUB**
CARISSA MACROCARPA
- CAJEPUT TREE**
CARISSA MACROCARPA
- CASCALOTE**
CAESALPINIA CASALACO SMOOTHIE
(THORNLESS HYBRID)
- DEER GRASS**
MUHLENBERGIA RIGENS
- GREEN CLOUD TEXAS RANGER**
LEUCOPHYLLUM FRUTESCENS
- INDIAN ROSEWOOD**
DALBERGIA SISBOO
- SILVER MOUND LANTANA**
LANTANA CAMARA "SILVER MOUND"
- OLIVE TREE - FRUITLESS**
OLEA EUROPAEA "MOTHER WILSONII"
- RED YUCCA**
HESPERALOE PARVIFLORA
- WILLOW ACACIA**
ACACIA SALICINA

APPROVALS

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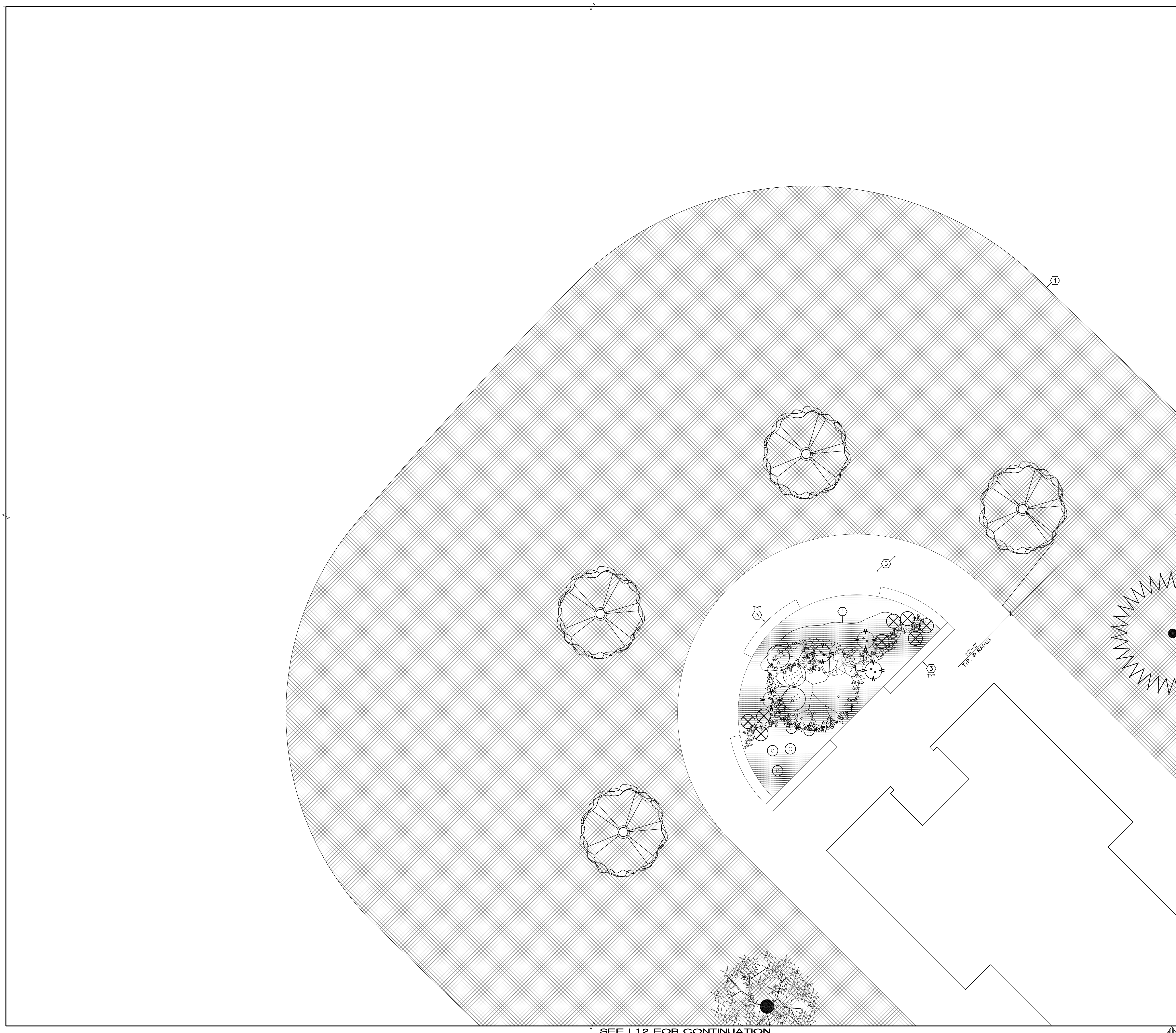
Project Title
**IMPERIAL VALLEY COLLEGE
RESTROOM/CONCESSION BUILDING**

Sheet Title
PLANTING PLAN

	Document Date 09-23-22	Project Number 22-091V
	Date Last Revised	Sheet Number L1.4

PLANTING PLAN - ENLARGED

SCALE: 1" = 10'-0" **A**



- KEYNOTES:**
- ① RAISED LANDSCAPE MOUND PER
 - ② BOULDERS: "DESERT SAND" SMOOTH PER
 - ③ CONCRETE BENCH
 - ④ EXTENT OF HYDROSEEDING
 - ⑤ BACKFLOW PREVENTOR BY OTHER BID PACKAGE
 - ⑥ EXISTING SCORE BOARD - PROTECT

- LEGEND:**
- GRASS**
PROVIDE HYDROSEED GRASS PER OR MOW CURB
 - XEROSCAPE**
PROVIDE DECOMPOSED GRANITE DECORATED GRANITE (GG) - "DESERT GOLD", 4" THICK MOISTURE CONDITION: COMPACT TO 95% MAX DENSITY

- AFRICAN SUMAC**
RHUS LANCEA
- AFRICAN SUMAC (MULTI-TRUNK)**
RHUS LANCEA
- BOXWOOD BEAUTY SHRUB**
CARISSA MACROCARPA
- CAJEPUT TREE**
CARISSA MACROCARPA
- CASCALOTE**
CAESALPINIA CASALACO SMOOTHIE (THORNLESS HYBRID)
- DEER GRASS**
MUHLENBERGIA RIGENS
- GREEN CLOUD TEXAS RANGER**
LEUCOPHYLLUM FRUTESCENS
- INDIAN ROSEWOOD**
DALBERGIA SISBOO
- SILVER MOUND LANTANA**
LANTANA CAMARA "SILVER MOUND"
- OLIVE TREE - FRUITLESS**
OLEA EUROPAEA "MOTHER WILSONII"
- RED YUCCA**
HESPERALOE PARVIFLORA
- WILLOW ACACIA**
ACACIA SALICINA

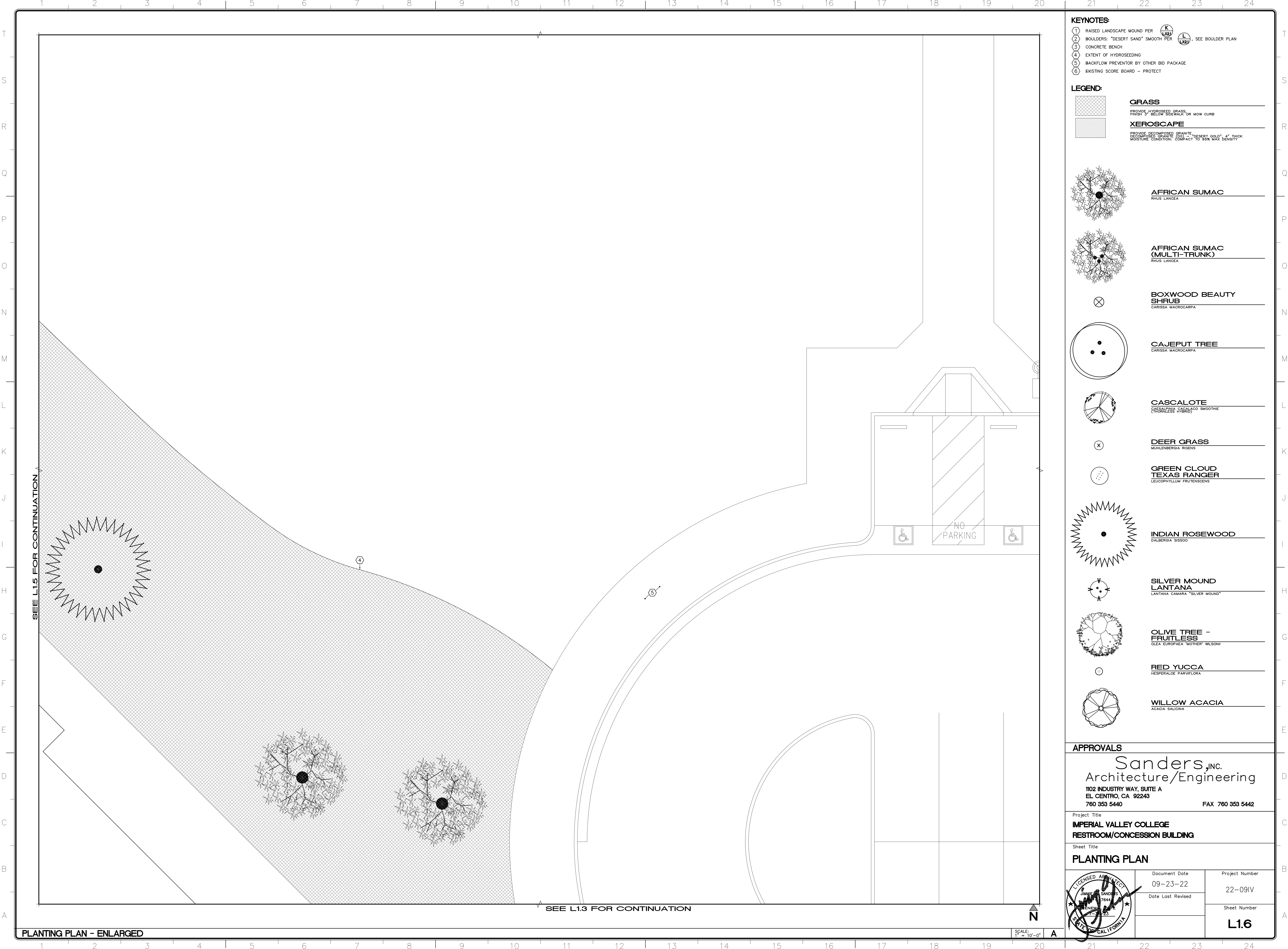
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Sheet Title
PLANTING PLAN

	Document Date 09-23-22	Project Number 22-091V
	Date Last Revised	Sheet Number L1.5



SEE L15 FOR CONTINUATION

SEE L13 FOR CONTINUATION

- KEYNOTES:**
- 1 RAISED LANDSCAPE MOUND PER
 - 2 BOULDERS: "DESERT SAND" SMOOTH PER
 - 3 CONCRETE BENCH
 - 4 EXTENT OF HYDROSEEDING
 - 5 BACKFLOW PREVENTOR BY OTHER BID PACKAGE
 - 6 EXISTING SCORE BOARD - PROTECT

- LEGEND:**
- GRASS**
PROVIDE HYDROSEED GRASS PER OR MOW CURB
 - XEROSCAPE**
PROVIDE DECOMPOSED GRANITE DECOMPOSED GRANITE (DG) - "DESERT GOLD", 4" THICK MOISTURE CONDITION: COMPACT TO 95% MAX DENSITY

- AFRICAN SUMAC**
RHUS LANCEA
- AFRICAN SUMAC (MULTI-TRUNK)**
RHUS LANCEA
- BOXWOOD BEAUTY SHRUB**
CARISSA MACROCARPA
- CAJEPUT TREE**
CARISSA MACROCARPA
- CASCALOTE**
CAESALPINIA CASALACO SMOOTHIE (THORNLESS HYBRID)
- DEER GRASS**
MUHLENBERGIA RIGENS
- GREEN CLOUD TEXAS RANGER**
LEUCOPHYLLUM FRUTESCENS
- INDIAN ROSEWOOD**
DALBERGIA SISSEO
- SILVER MOUND LANTANA**
LANTANA CAMARA "SILVER MOUND"
- OLIVE TREE - FRUITLESS**
OLEA EUROPAEA "MOTHER WILSONII"
- RED YUCCA**
HESPERALOE PARVIFLORA
- WILLOW ACACIA**
ACACIA SALICINA

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Project Title
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Sheet Title
PLANTING PLAN

	Document Date 09-23-22	Project Number 22-09IV
	Date Last Revised	Sheet Number L1.6

PLANTING PLAN - ENLARGED

SCALE: 1" = 10'-0" A


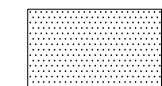
SEE L2.2 FOR CONTINUATION

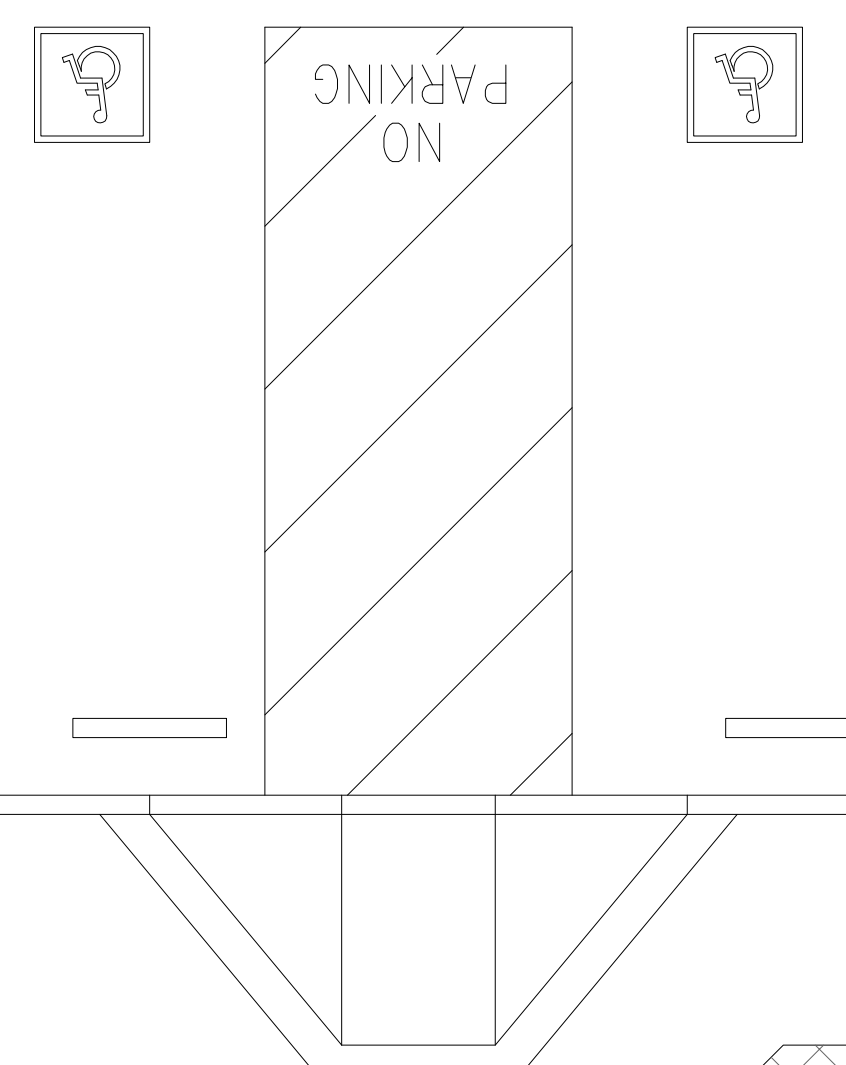
SEE L2.2 FOR CONTINUATION

KEYNOTES:

- (A) LARGE, SMOOTH, ROUND WATER WASH BOULDER
5' x 7' x 5' APPROXIMATE SIZE 2,500 LBS. (L Lx21)
- (B) MEDIUM SMOOTH, ROUND WATER WASH BOULDER
4' x 6' x 4' APPROXIMATE SIZE 1,100 LBS. (L Lx21)
- (C) SMALL SMOOTH ROUND WATER WASH BOULDER
3' x 4' x 3' APPROXIMATE SIZE 700 LBS. (L Lx21)
- (D) ROLLING ROUNDED LANDSCAPE MOUND (K Lx21)
- (E) 8" - 12" DECOMPOSED CRUSHED ROCK GRANITE, 12" - 18" (Lx21)
- (F) DECOMPOSED GRANITE PLANTER (M Lx21)

LEGEND:

-  **GRASS**
PROVIDE HYDRASEED GRASS.
FINISH 3" BELOW SIDEWALK OR MOW CURB
-  **XEROSCAPE - COLOR**
PROVIDE DECOMPOSED GRANITE.
DECOMPOSED GRANITE (DG) - "DESERT GOLD" 4" THICK

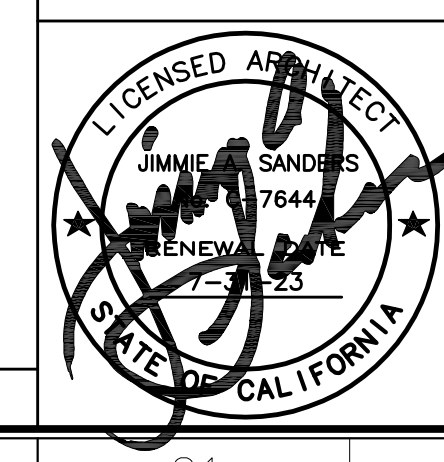


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Project Title
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Sheet Title
BOULDER PLAN



Document Date 09-23-22	Project Number 22-091V
Date Last Revised	Sheet Number L2.1

SCALE: 1" = 10'-0" A

BOULDER PLAN - ENLARGED



- KEYNOTES:**
- (A) LARGE SMOOTH ROUND WATER WASH BOULDER
5' x 7' x 5' APPROXIMATE SIZE 2,500 LBS.
 - (B) MEDIUM SMOOTH ROUND WATER WASH BOULDER
4' x 6' x 4' APPROXIMATE SIZE 1,100 LBS.
 - (C) SMALL SMOOTH ROUND WATER WASH BOULDER
3' x 4' x 3' APPROXIMATE SIZE 700 LBS.
 - (D) ROLLING ROUNDED LANDSCAPE MOUND
 - (E) 8" - 12" DECOMPOSED CRUSHED ROCK GRANITE, 12" - 18"
 - (F) DECOMPOSED GRANITE PLANTER
 - (L) [Symbol]
 - (K) [Symbol]
 - (M) [Symbol]

- LEGEND:**
- [Symbol] **GRASS**
PROVIDE HYDROSEED GRASS.
FINISH 3" BELOW SIDEWALK OR MOW CURB
 - [Symbol] **XEROSCAPE - COLOR**
PROVIDE DECOMPOSED GRANITE
DECOMPOSED GRANITE (DG) - "DESERT GOLD" 4" THICK

SEE L2.1 FOR CONTINUATION

SEE L2.1 FOR CONTINUATION

APPROVALS

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Architecture/Engineering
 1102 INDUSTRY WAY, SUITE A
 EL CENTRO, CA 92243
 760 353 5440 FAX 760 353 5442

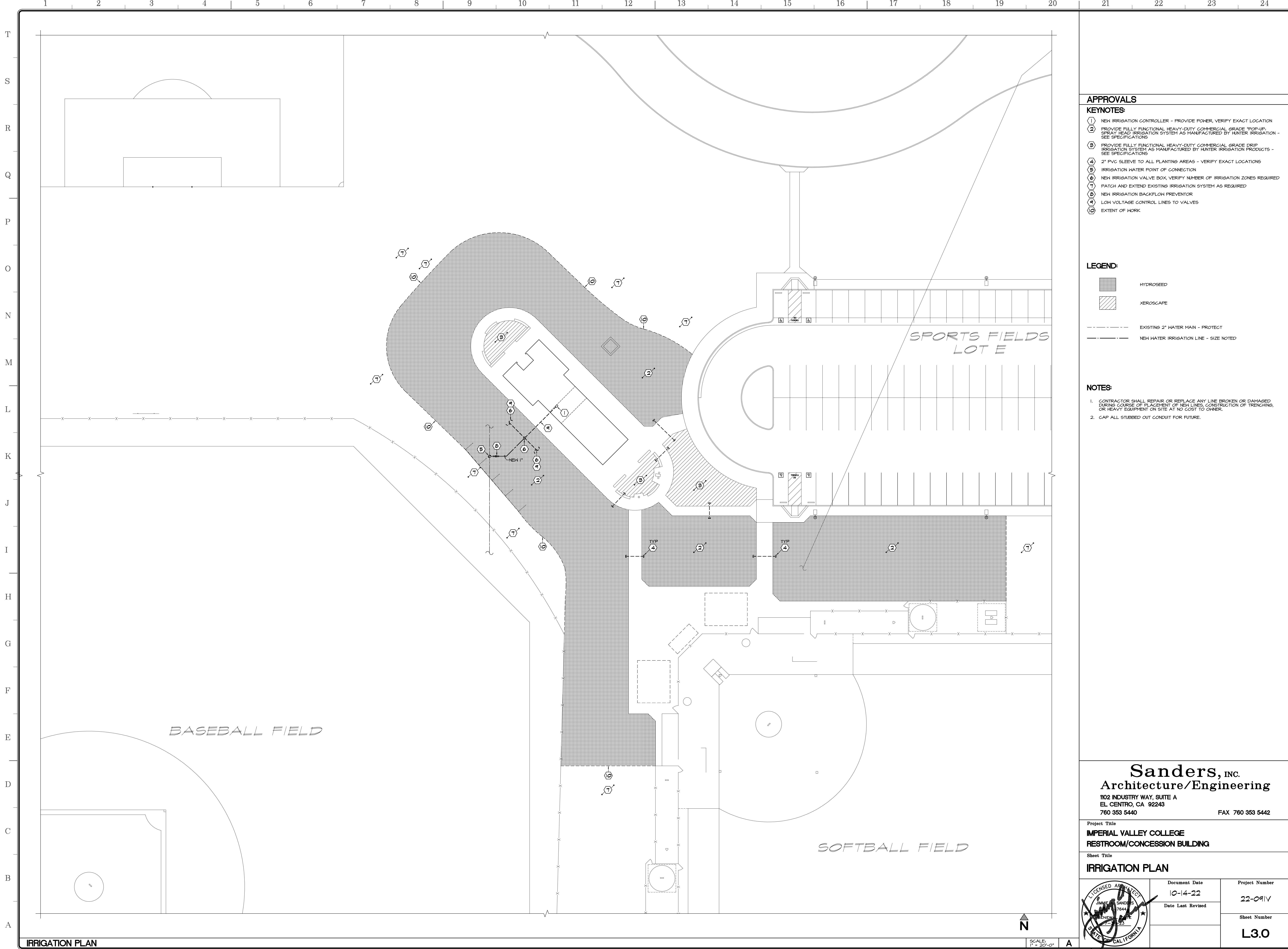
Project Title
**IMPERIAL VALLEY COLLEGE
 RESTROOM/CONCESSION BUILDING**

Sheet Title
BOULDER PLAN

	Document Date 09-23-22	Project Number 22-091V
	Date Last Revised	Sheet Number L2.2

BOULDER PLAN - ENLARGED

SCALE: 1" = 10'-0" A



APPROVALS

KEYNOTES:

- ① NEH IRRIGATION CONTROLLER - PROVIDE POWER, VERIFY EXACT LOCATION
- ② PROVIDE FULLY FUNCTIONAL HEAVY-DUTY COMMERCIAL GRADE "POP-UP" SPRAY HEAD IRRIGATION SYSTEM AS MANUFACTURED BY HUNTER IRRIGATION - SEE SPECIFICATIONS
- ③ PROVIDE FULLY FUNCTIONAL HEAVY-DUTY COMMERCIAL GRADE DRIP IRRIGATION SYSTEM AS MANUFACTURED BY HUNTER IRRIGATION PRODUCTS - SEE SPECIFICATIONS
- ④ 2" PVC SLEEVE TO ALL PLANTING AREAS - VERIFY EXACT LOCATIONS
- ⑤ IRRIGATION WATER POINT OF CONNECTION
- ⑥ NEH IRRIGATION VALVE BOX, VERIFY NUMBER OF IRRIGATION ZONES REQUIRED
- ⑦ PATCH AND EXTEND EXISTING IRRIGATION SYSTEM AS REQUIRED
- ⑧ NEH IRRIGATION BACKFLOW PREVENTOR
- ⑨ LOW VOLTAGE CONTROL LINES TO VALVES
- ⑩ EXTENT OF WORK

LEGEND:

- HYDROSEED
- XEROSCAPE
- EXISTING 2" WATER MAIN - PROTECT
- NEH WATER IRRIGATION LINE - SIZE NOTED

NOTES:

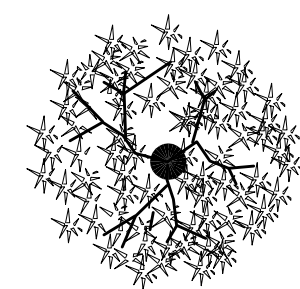
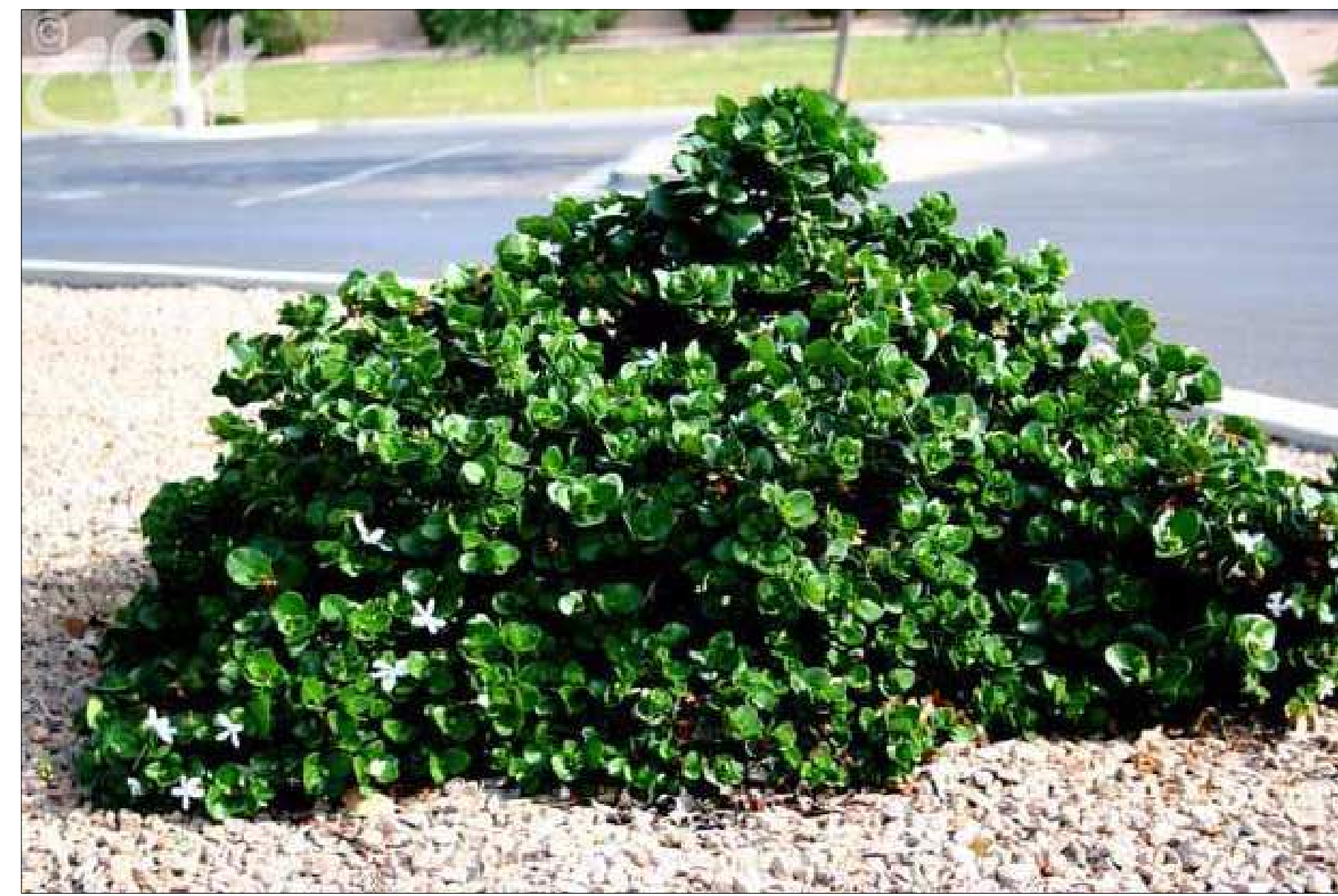
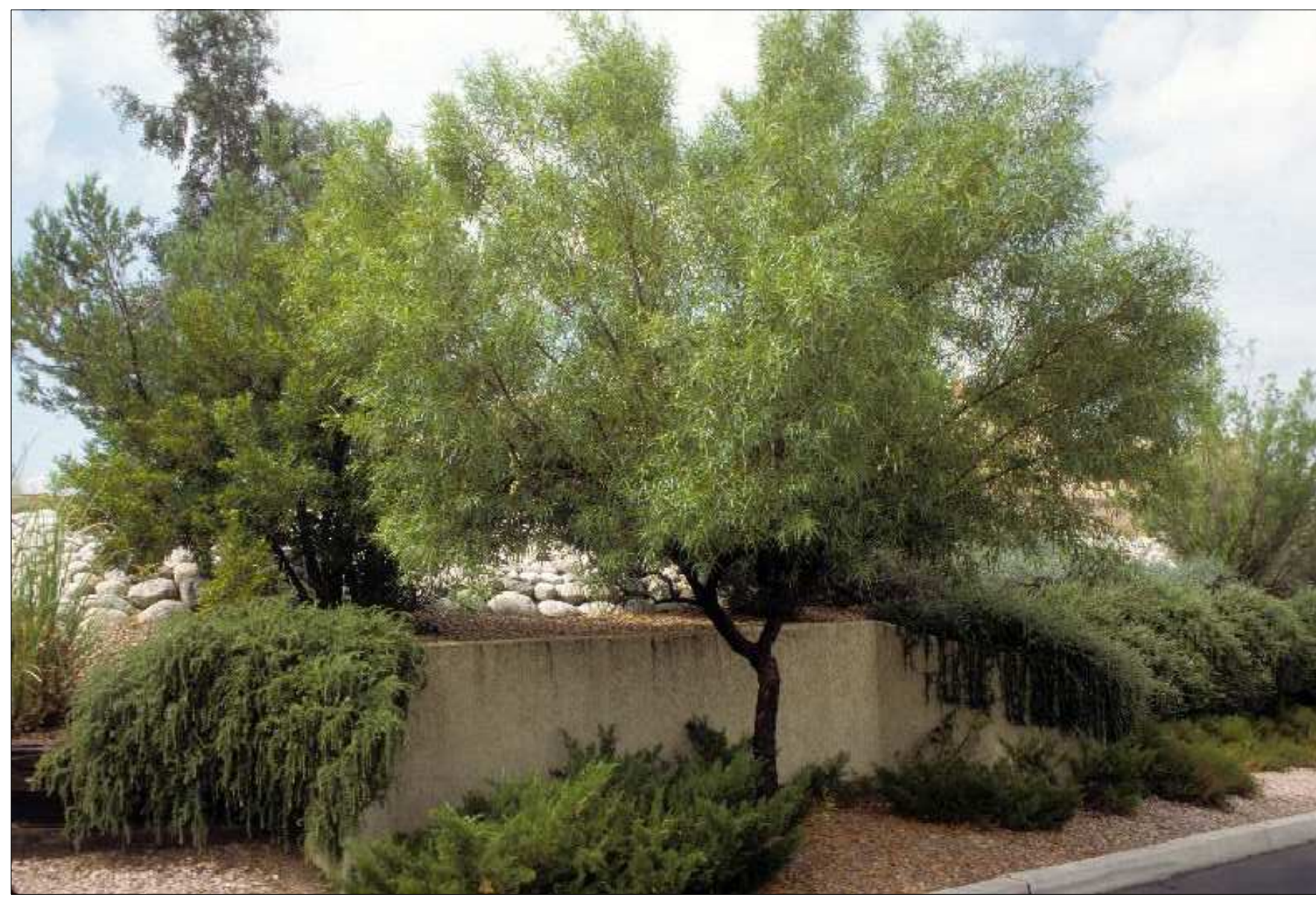
- 1. CONTRACTOR SHALL REPAIR OR REPLACE ANY LINE BROKEN OR DAMAGED DURING COURSE OF PLACEMENT OF NEH LINES, CONSTRUCTION OF TRENCHING, OR HEAVY EQUIPMENT ON SITE AT NO COST TO OWNER.
- 2. CAP ALL STUBBED OUT CONDUIT FOR FUTURE.

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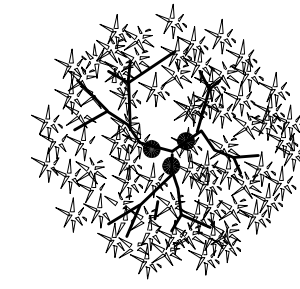
Project Title
**IMPERIAL VALLEY COLLEGE
 RESTROOM/CONCESSION BUILDING**

Sheet Title
IRRIGATION PLAN

	Document Date 10-14-22	Project Number 22-091V
	Date Last Revised	Sheet Number L3.0



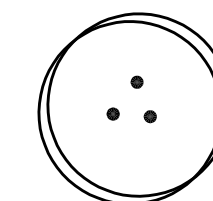
AFRICAN SUMAC
RHUS LANCEA | A | 24" BOX



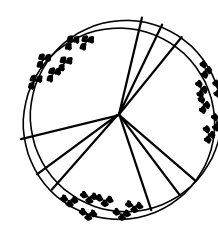
AFRICAN SUMAC (MULTI-TRUNK)
RHUS LANCEA | B | 24" BOX



BOXWOOD BEAUTY SHRUB
CARISSA MACROCARPA | C | 15 gal.



CAJEPUT TREE
CARISSA MACROCARPA | D | 24" BOX



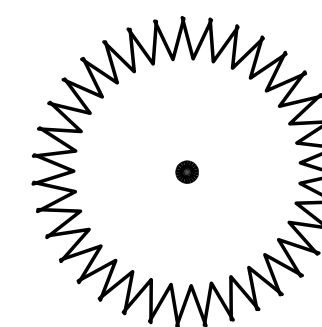
CASCALOTE
CAESALPINIA CACALAGO | E | 15 gal.



DEER GRASS
HELENERGIA RUPENS | F | 15 gal.



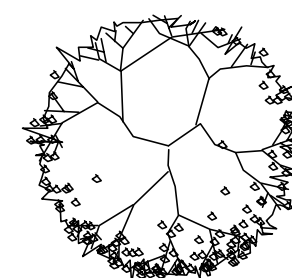
GREEN CLOUD TEXAS RANGER
LEUCOPHYLLUM FRUTESCENS | G | 9 gal.



INDIAN ROSEWOOD TREE
DALBERGIA SISSOO | H | 24" BOX



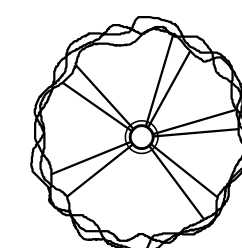
SILVER MOUND LANTANA
LANTANA CANARIENSIS 'SILVER MOUND' | J | 15 gal.



OLIVE TREE - FRUITLESS
OLEA EUROPAEA 'MOTHER WILSON' MULTI-TRUNK | K | 24" BOX



RED YUCCA
HESEKALOE PARVIFLORA | L | 15 gal.



WILLOW ACACIA
ACACIA SALICINA | M | 24" BOX

APPROVALS

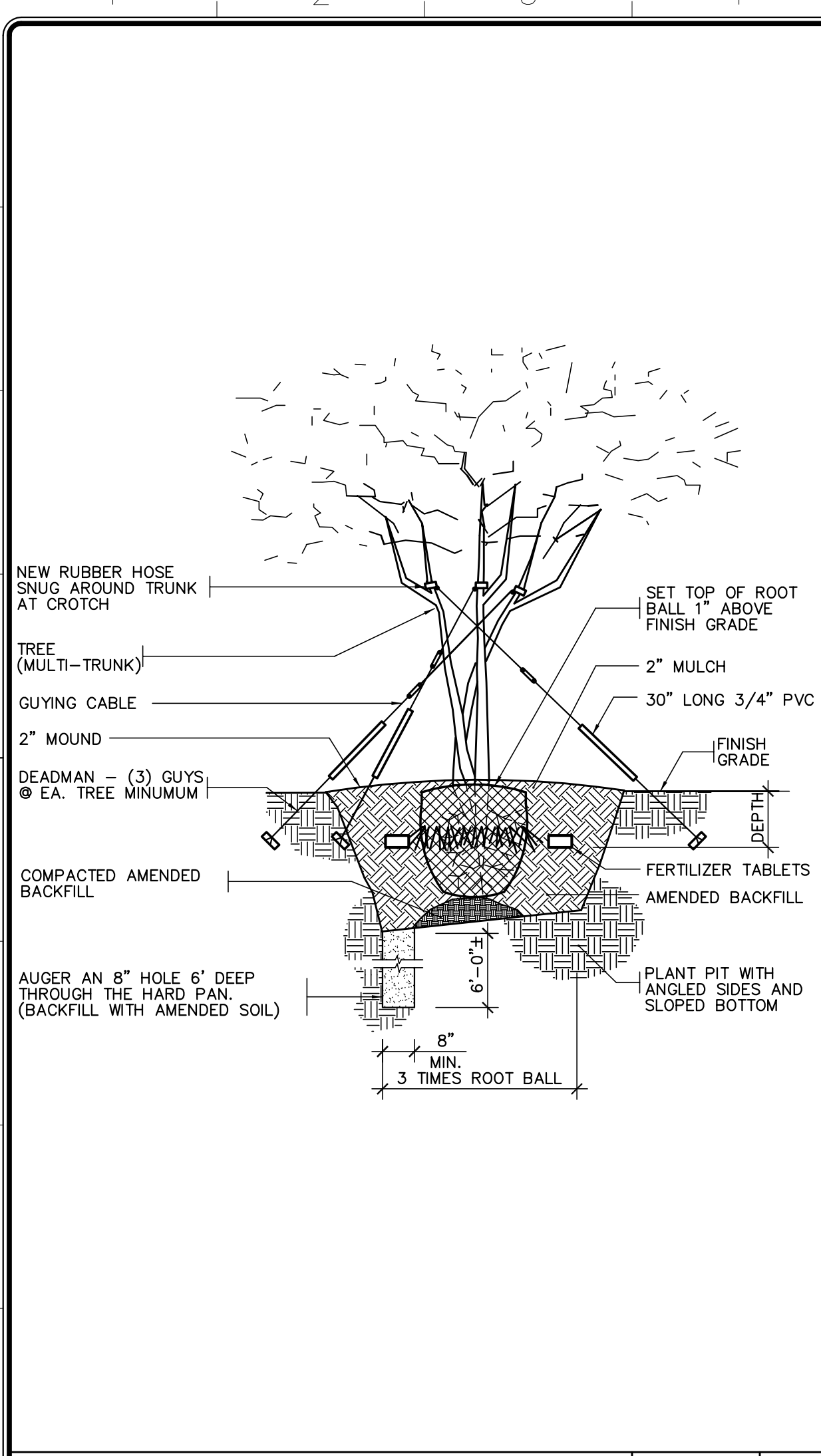
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**IMPERIAL VALLEY COLLEGE
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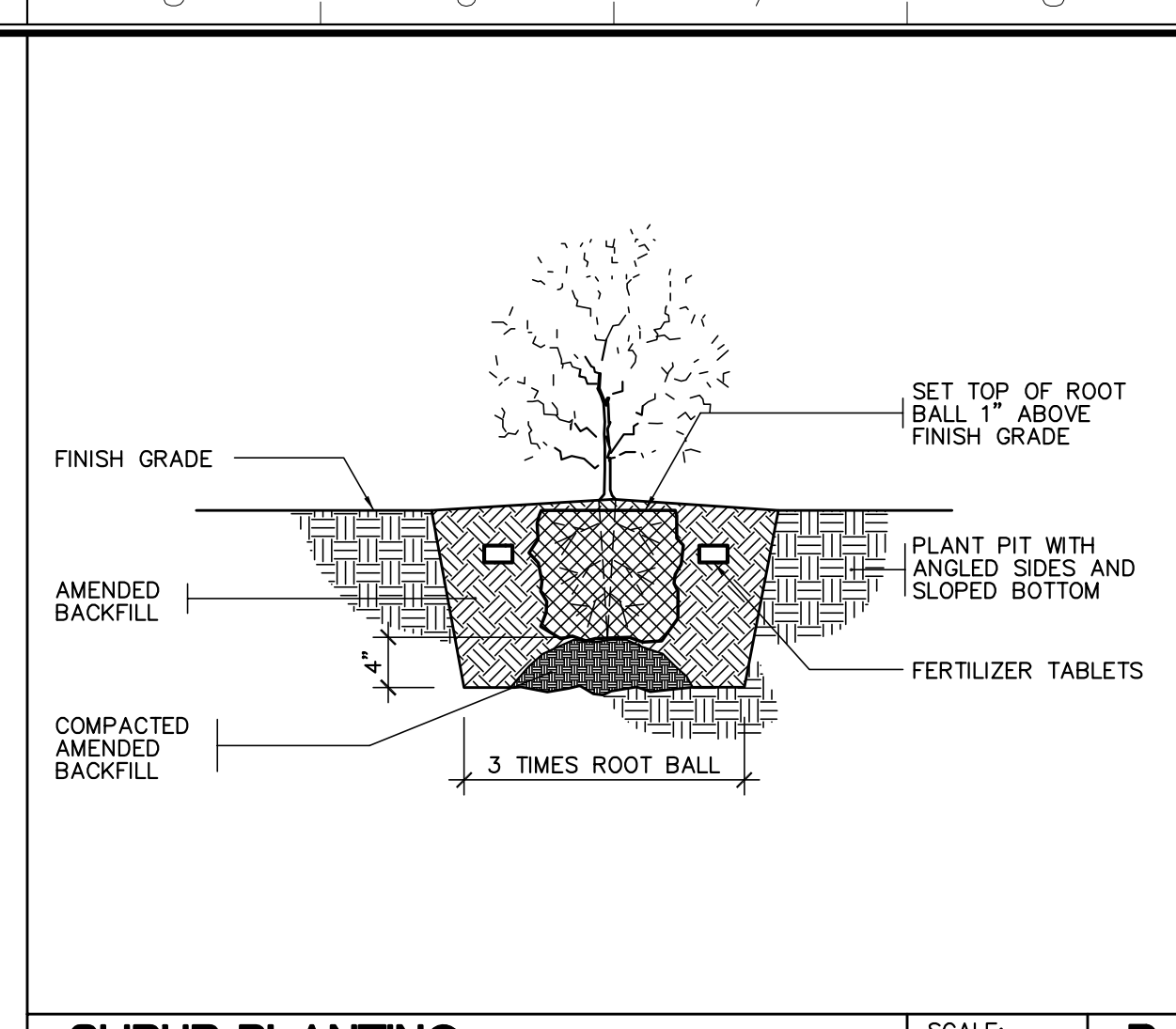
Sheet Title

PLANTING SCHEDULE

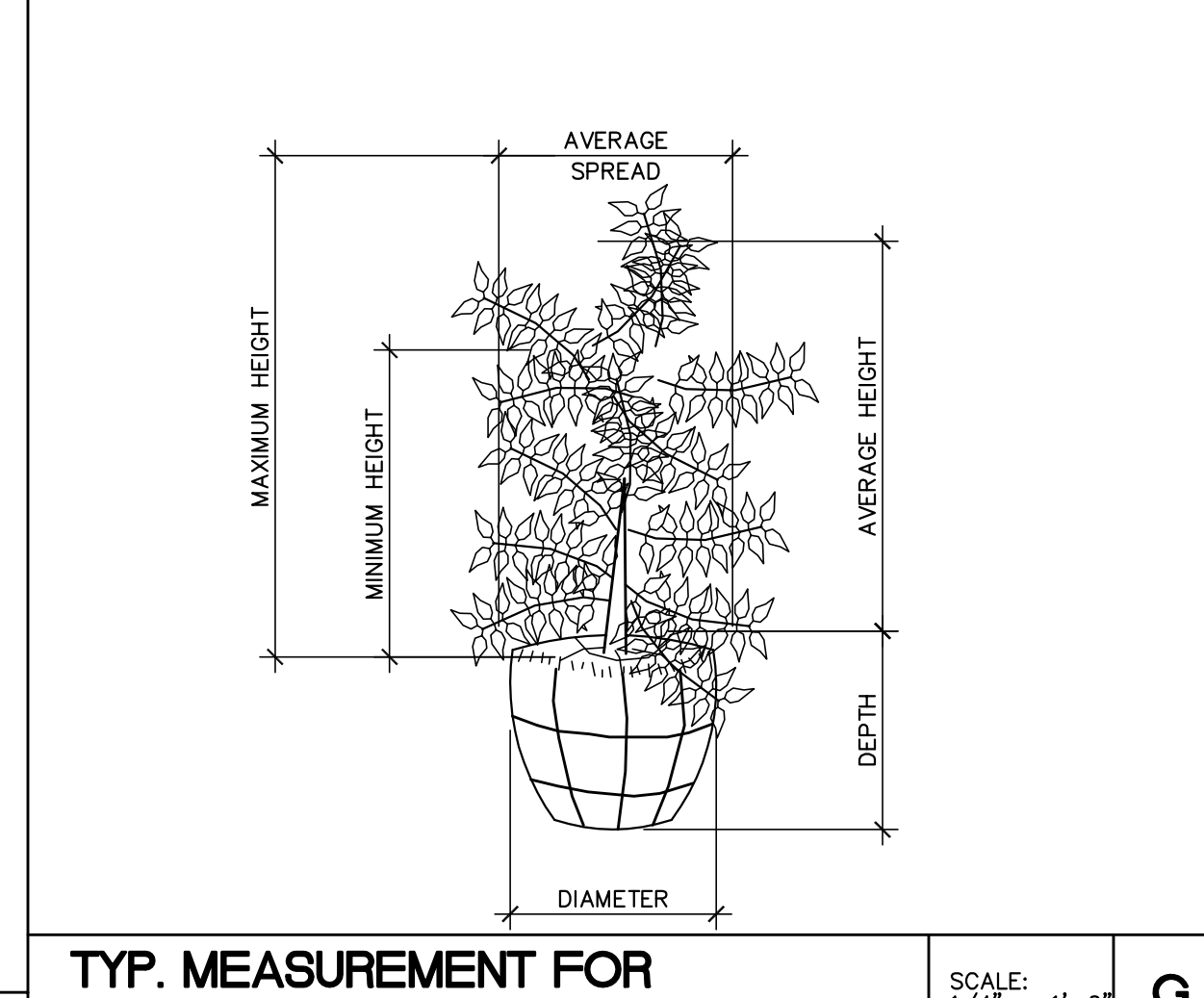
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	Date Last Revised	Sheet Number LX1.1



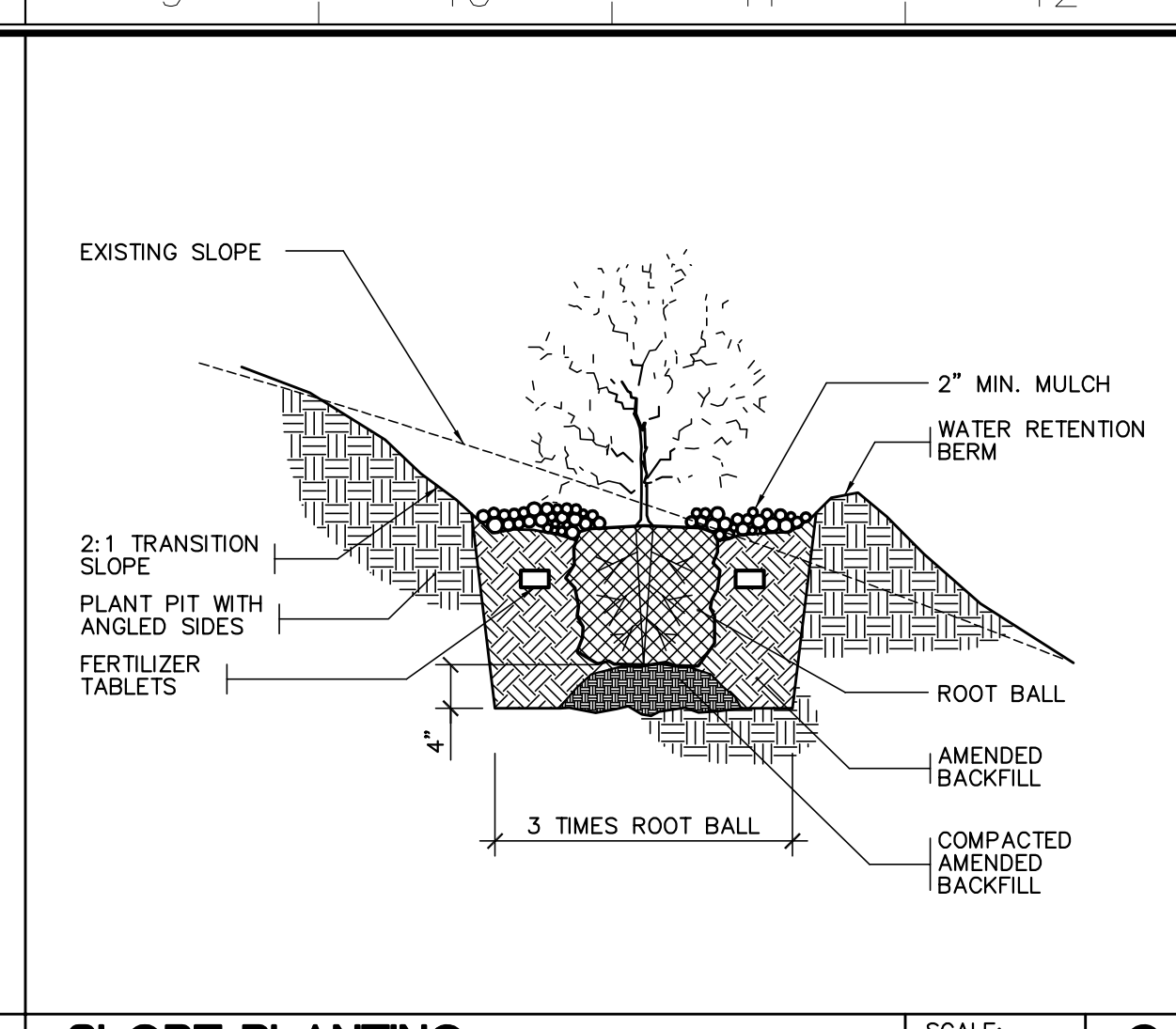
TREE GUYING AND PLANTING SCALE: 1/2" = 1'-0" **A**



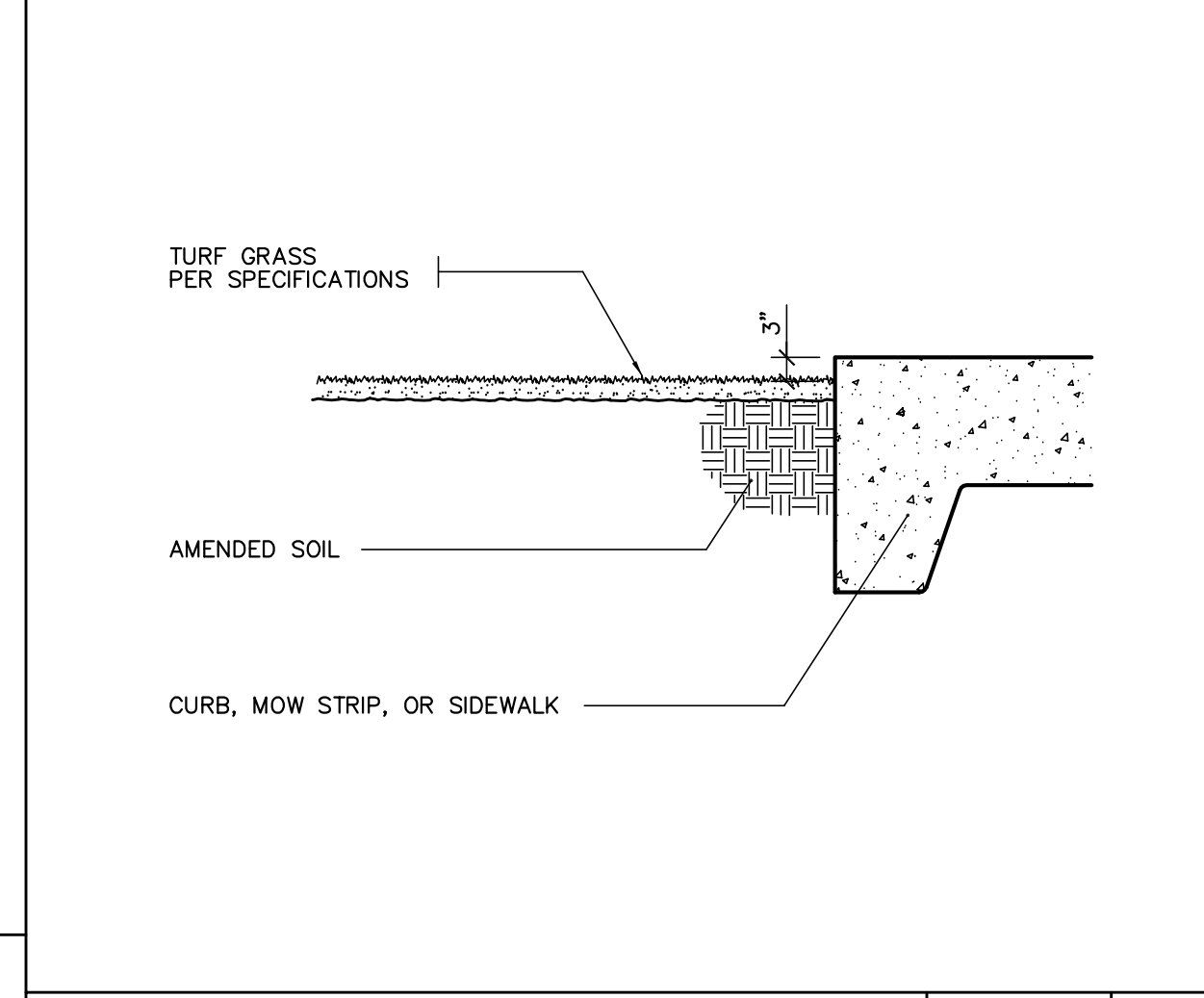
SHRUB PLANTING SCALE: 1/2" = 1'-0" **B**



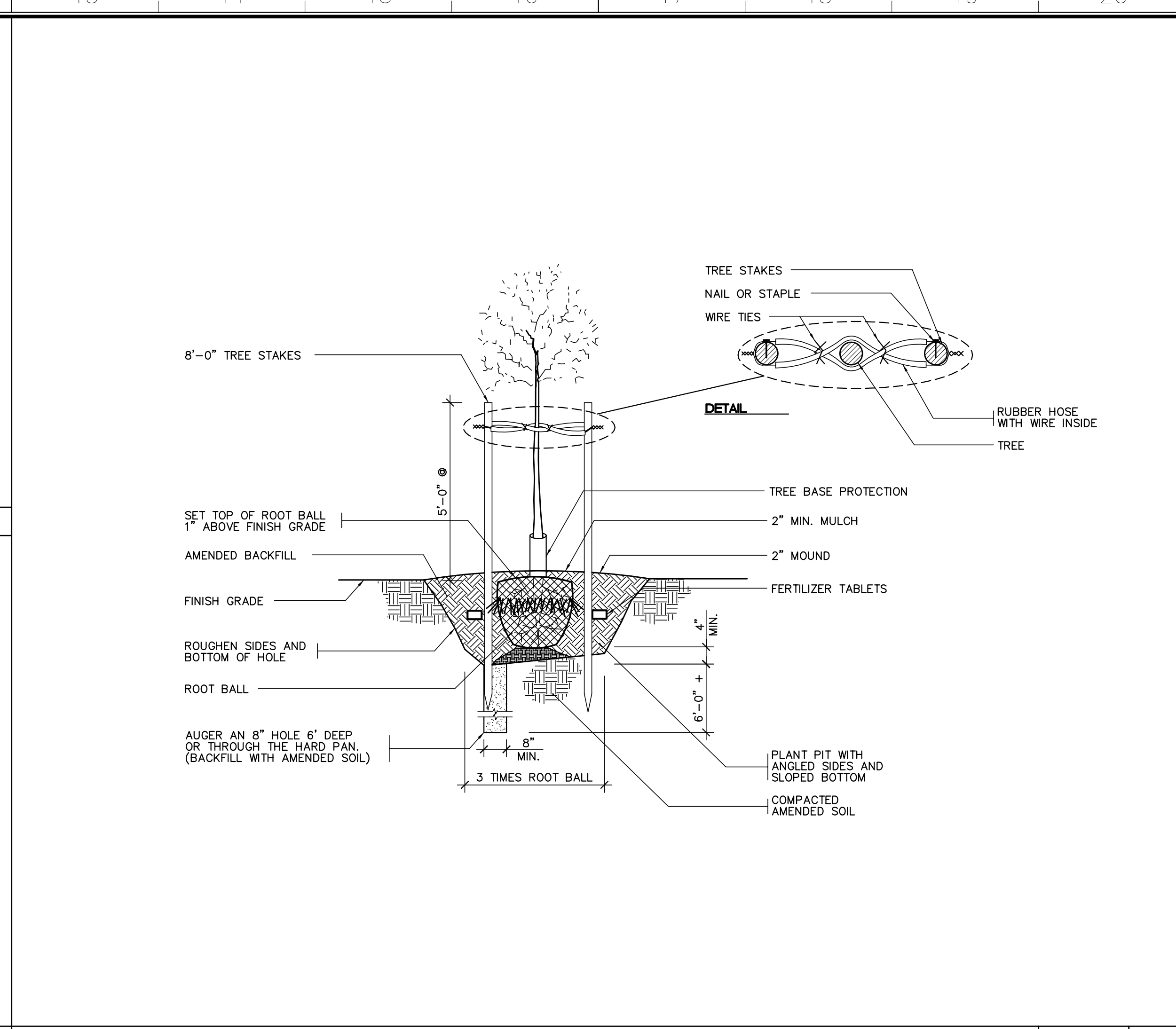
TYP. MEASUREMENT FOR PROSTRATE TYPE PLANTS SCALE: 1/4" = 1'-0" **G**



SLOPE PLANTING SCALE: 1/2" = 1'-0" **C**

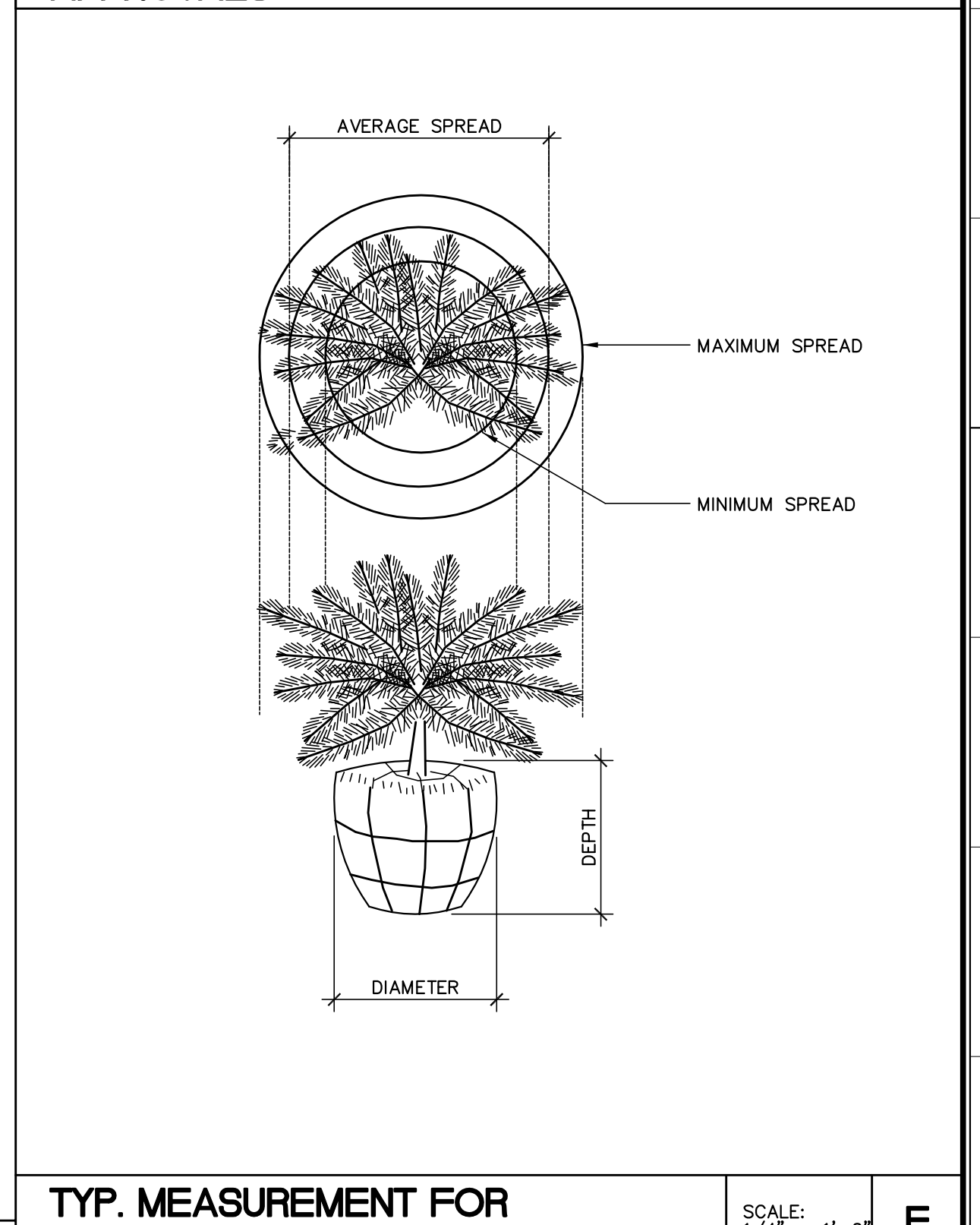


SOD INSTALLATION SCALE: 1" = 1'-0" **J**

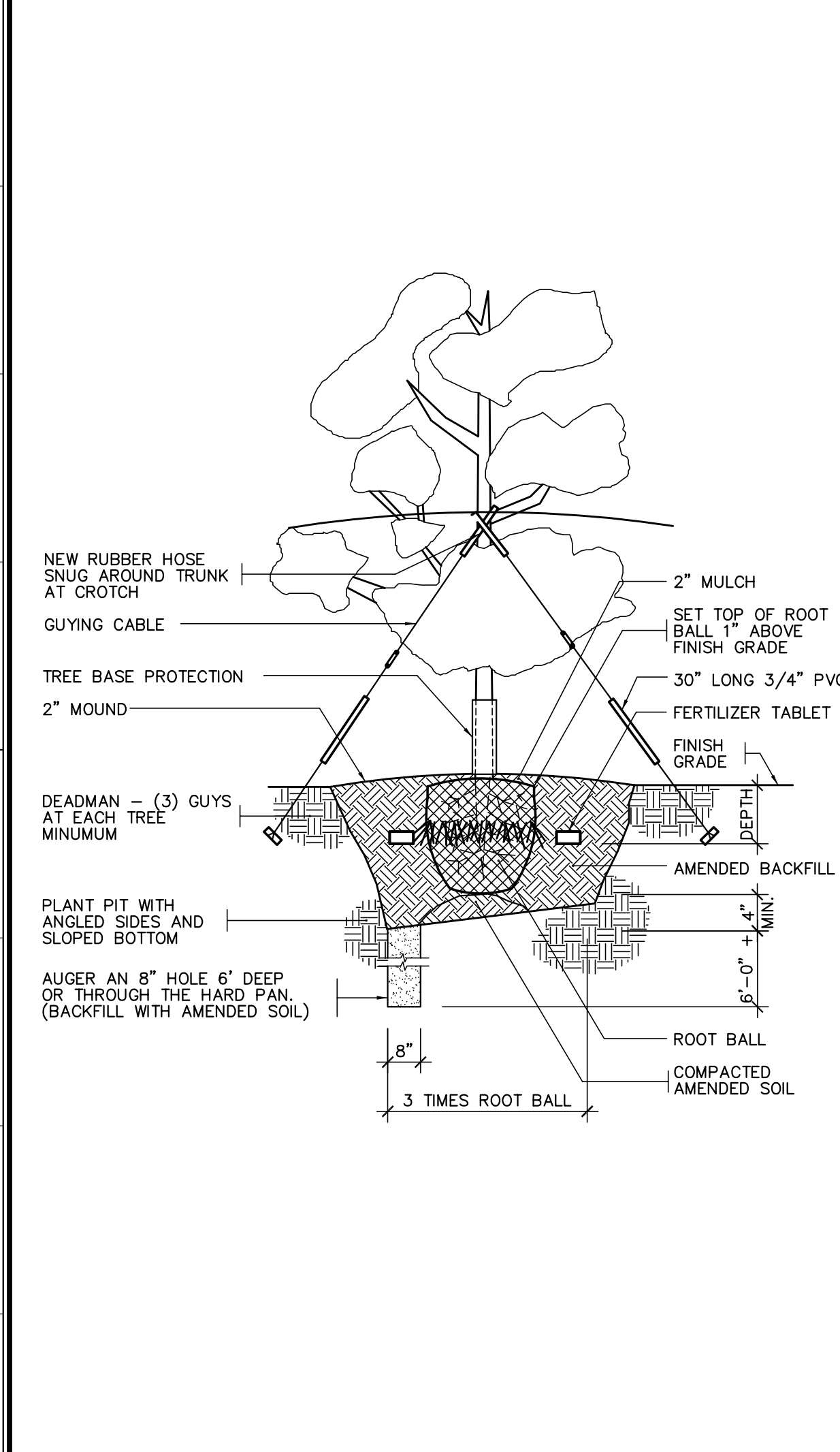


TREE PLANTING AND STAKING SCALE: 1/2" = 1'-0" **D**

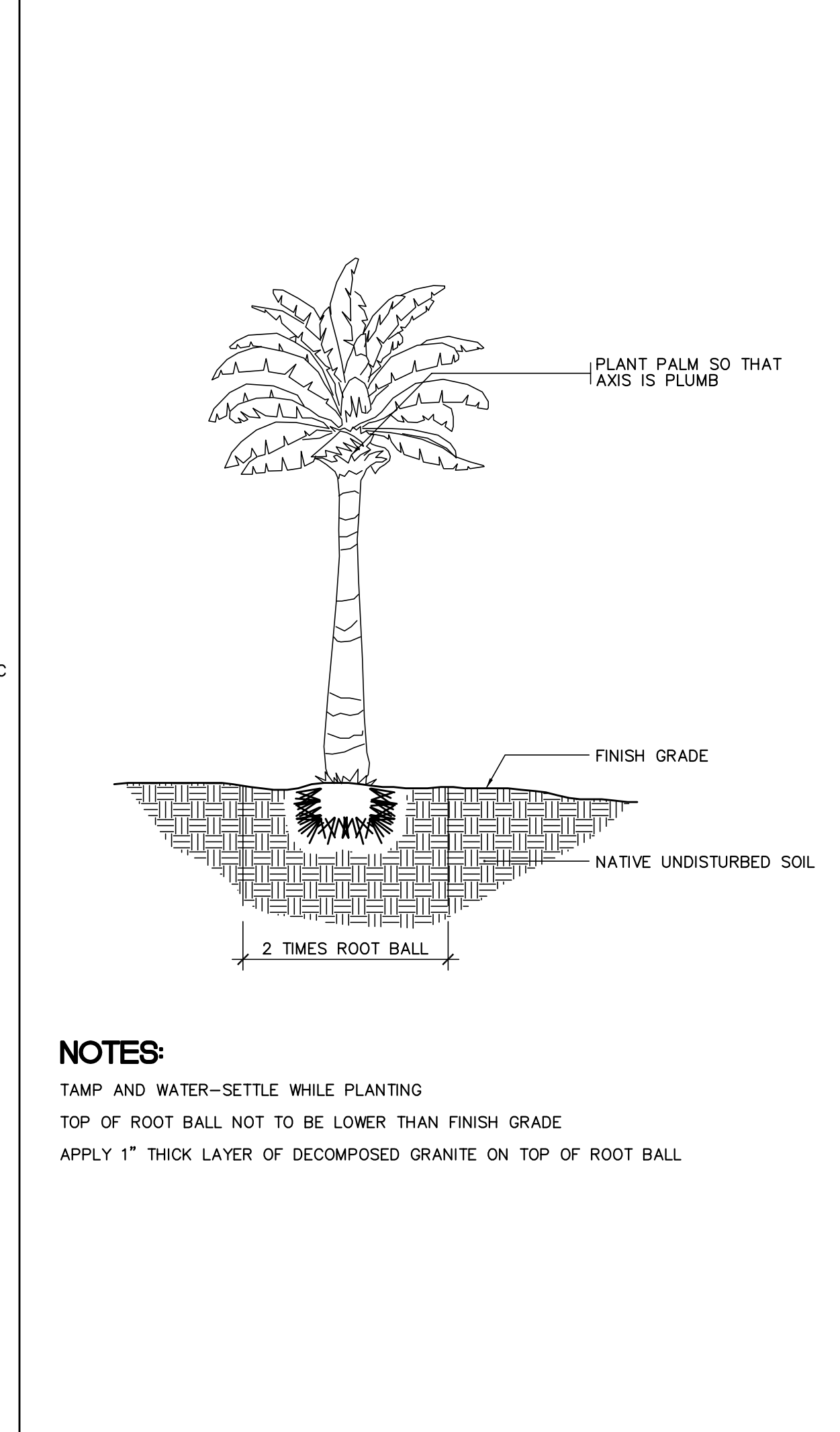
APPROVALS



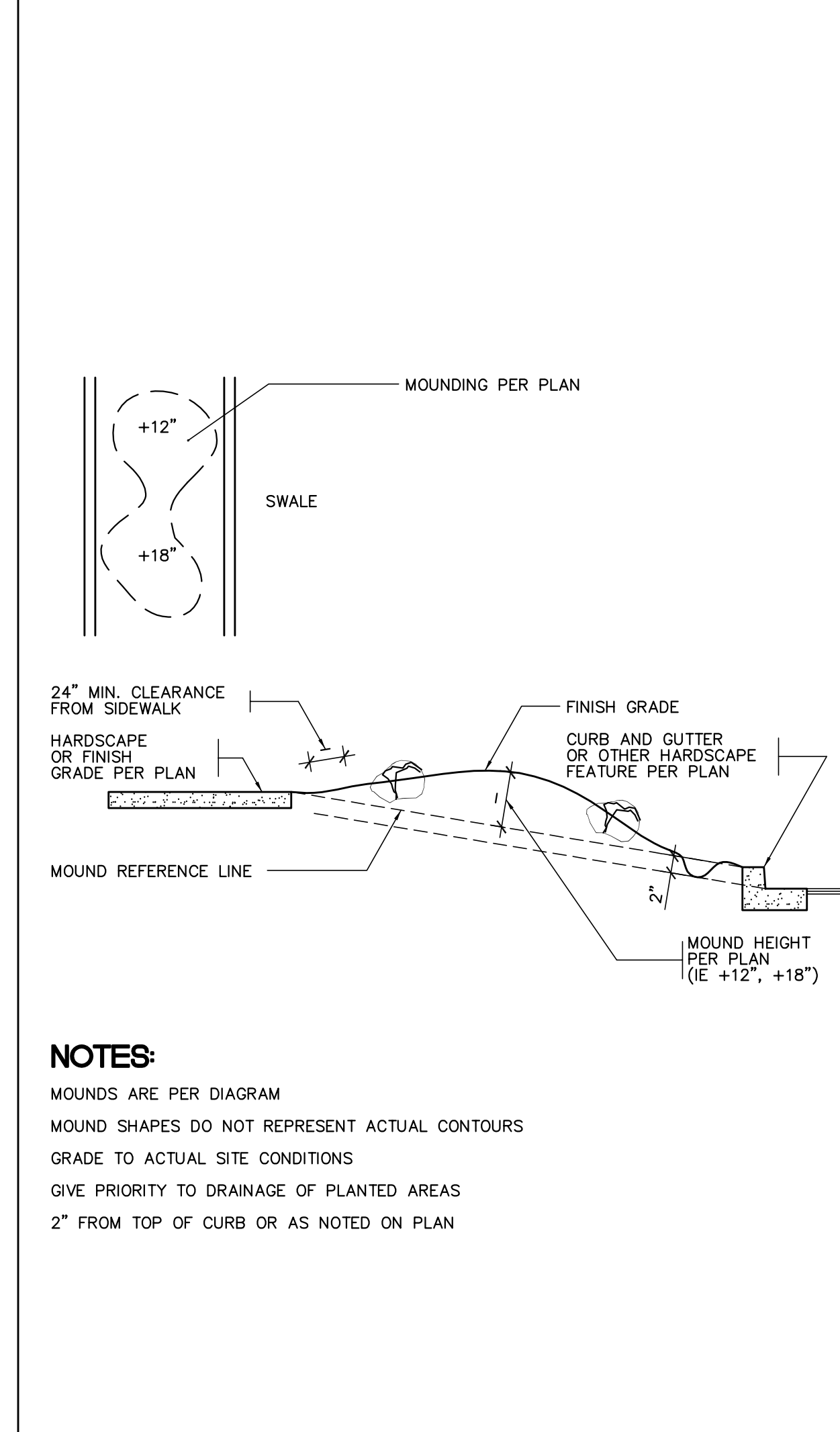
TYP. MEASUREMENT FOR PROSTRATE TYPE PLANTS SCALE: 1/4" = 1'-0" **E**



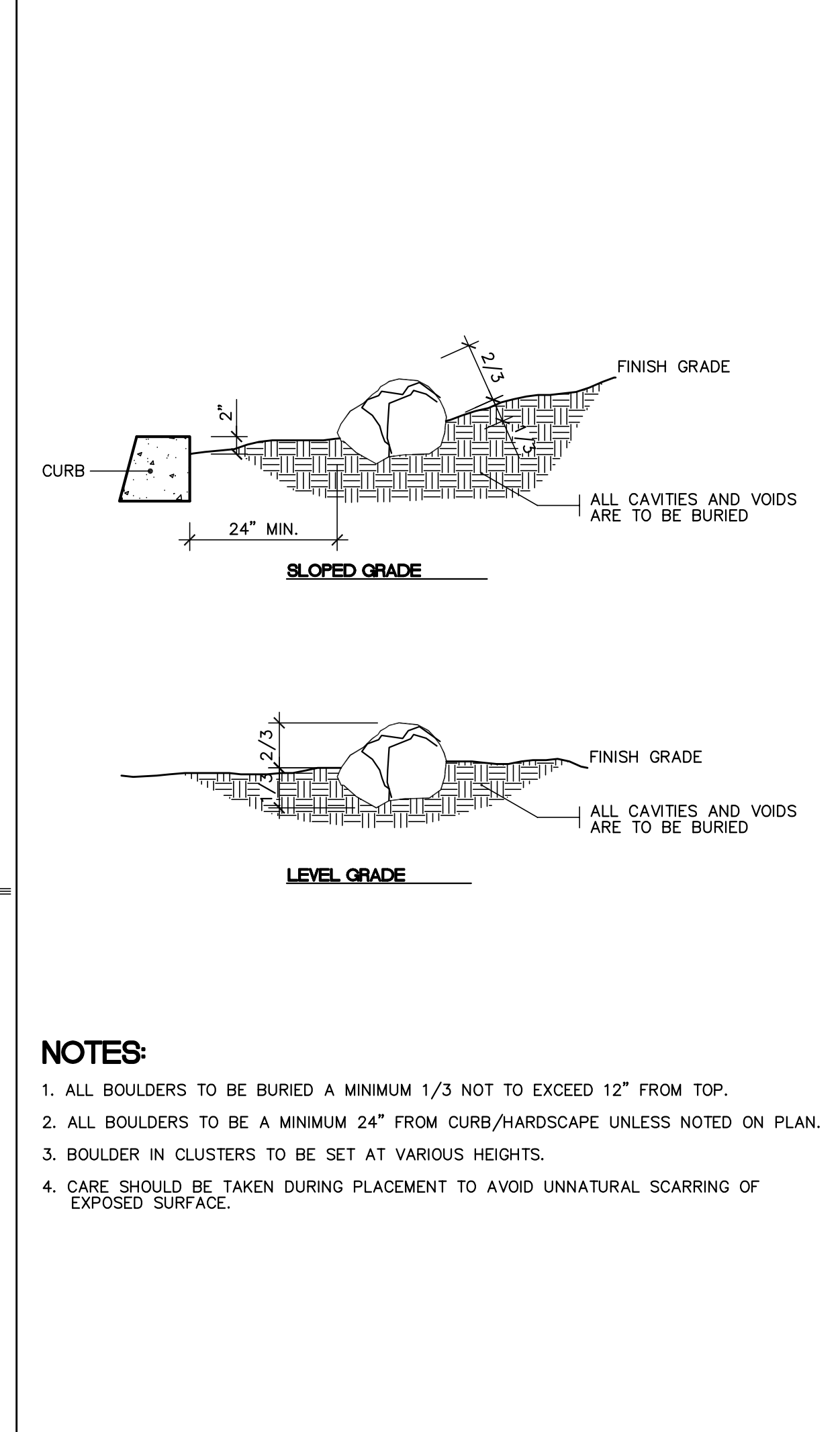
EVERGREEN / LARGE TREE GUYING SCALE: 1/2" = 1'-0" **F**



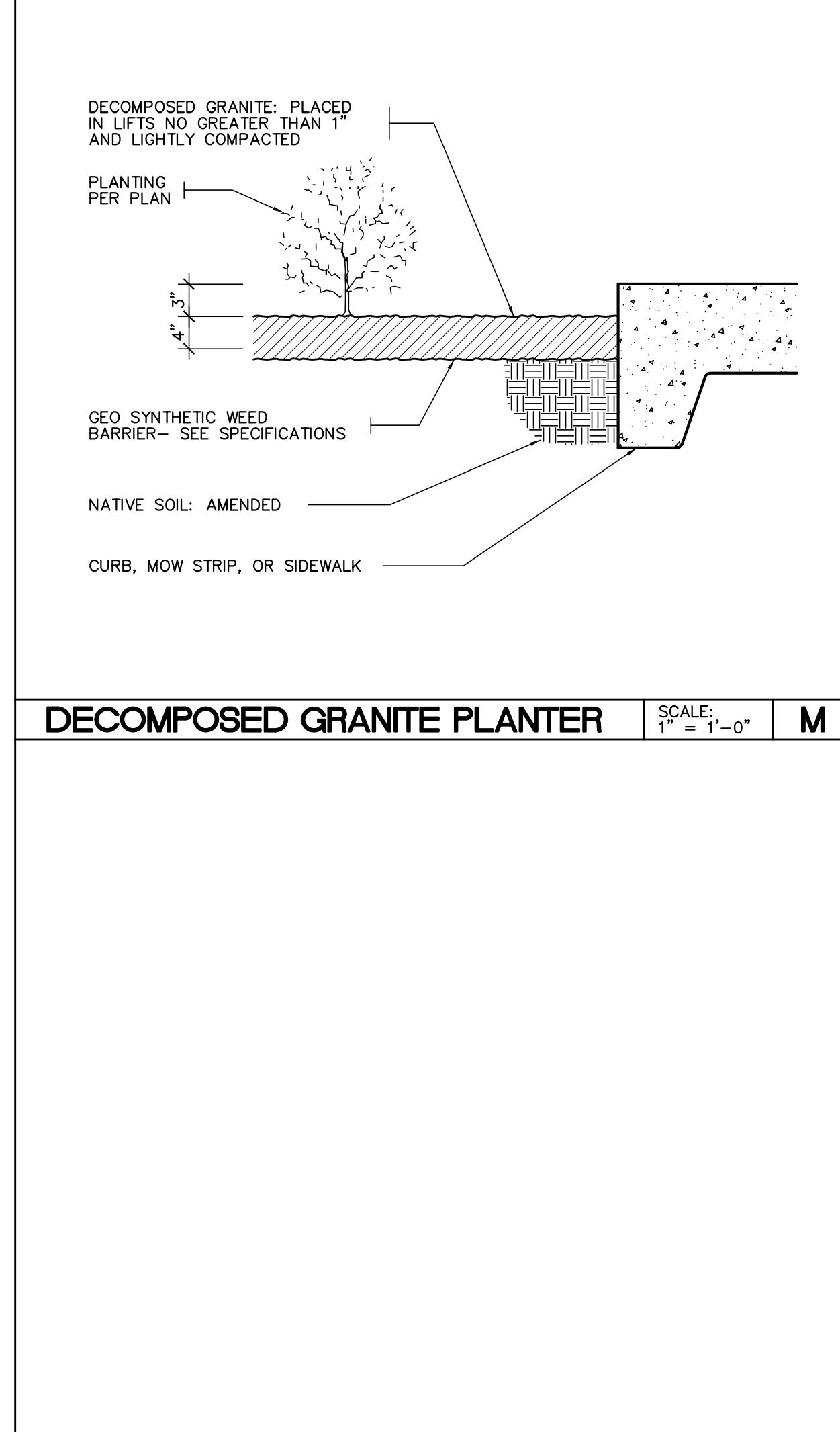
PALM TREE INSTALLATION SCALE: N.T.S. **H**



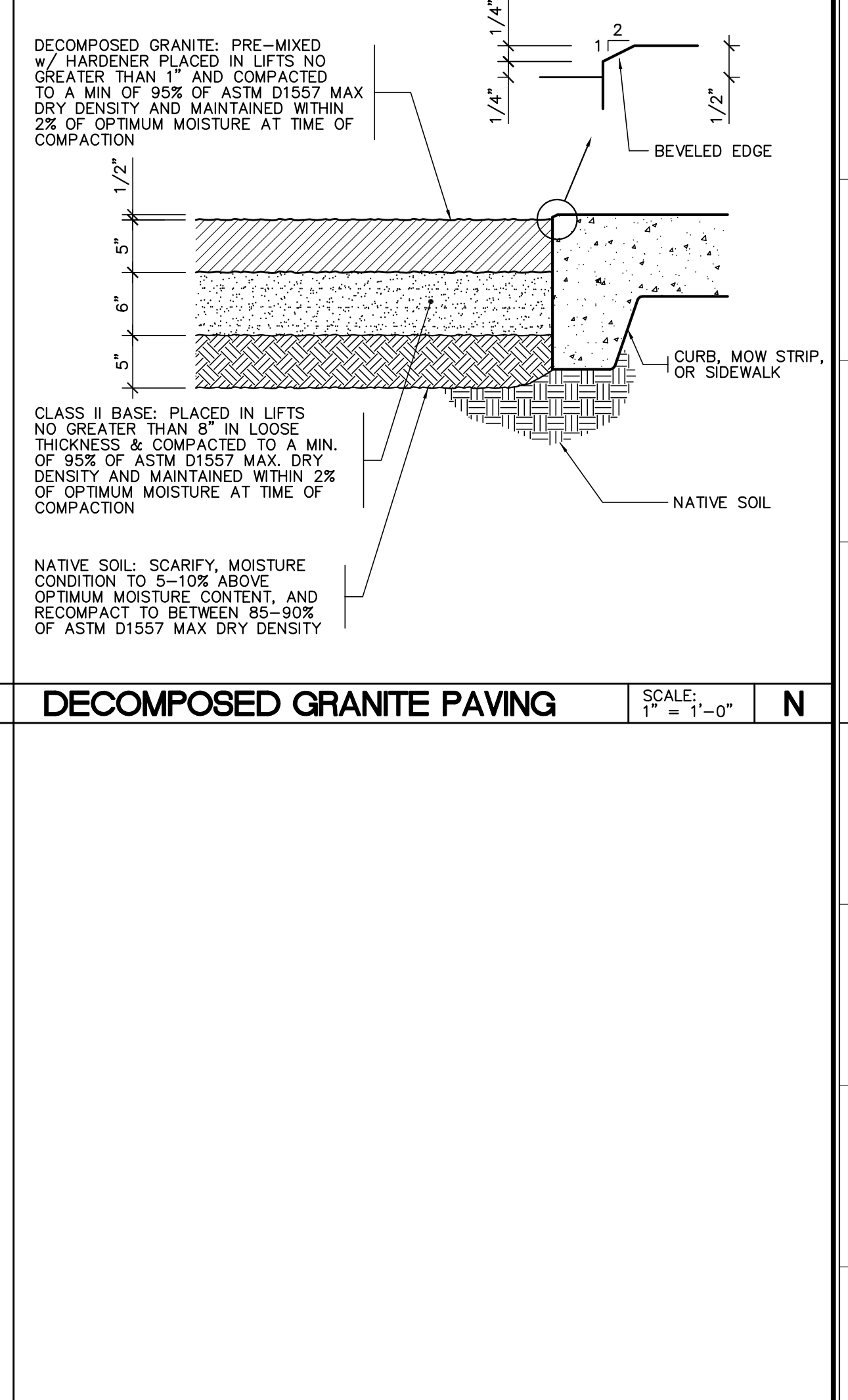
LANDSCAPE MOUND SCALE: N.T.S. **K**



BOULDER INSTALLATION SCALE: N.T.S. **L**



DECOMPOSED GRANITE PLANTER SCALE: 1" = 1'-0" **M**



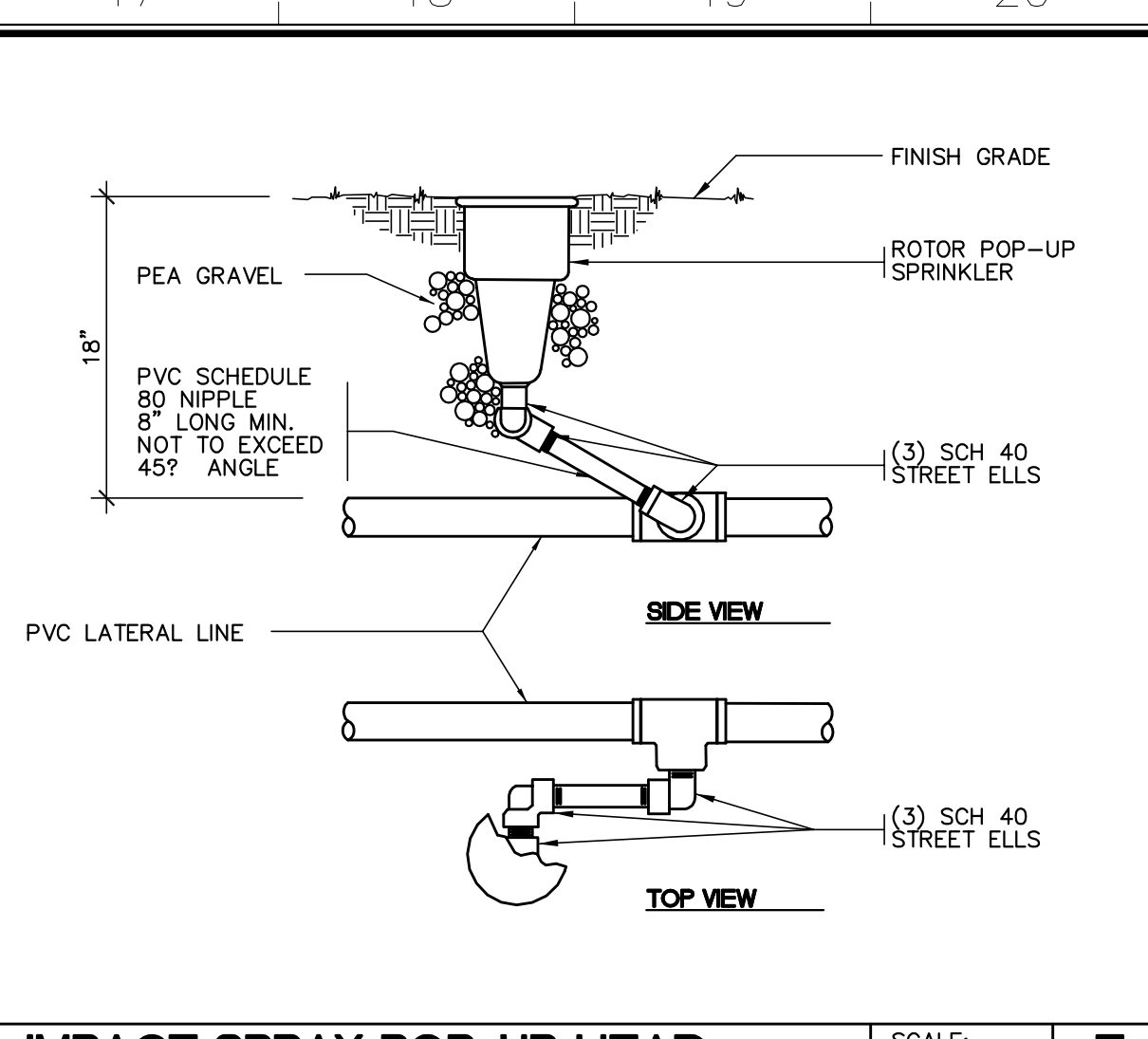
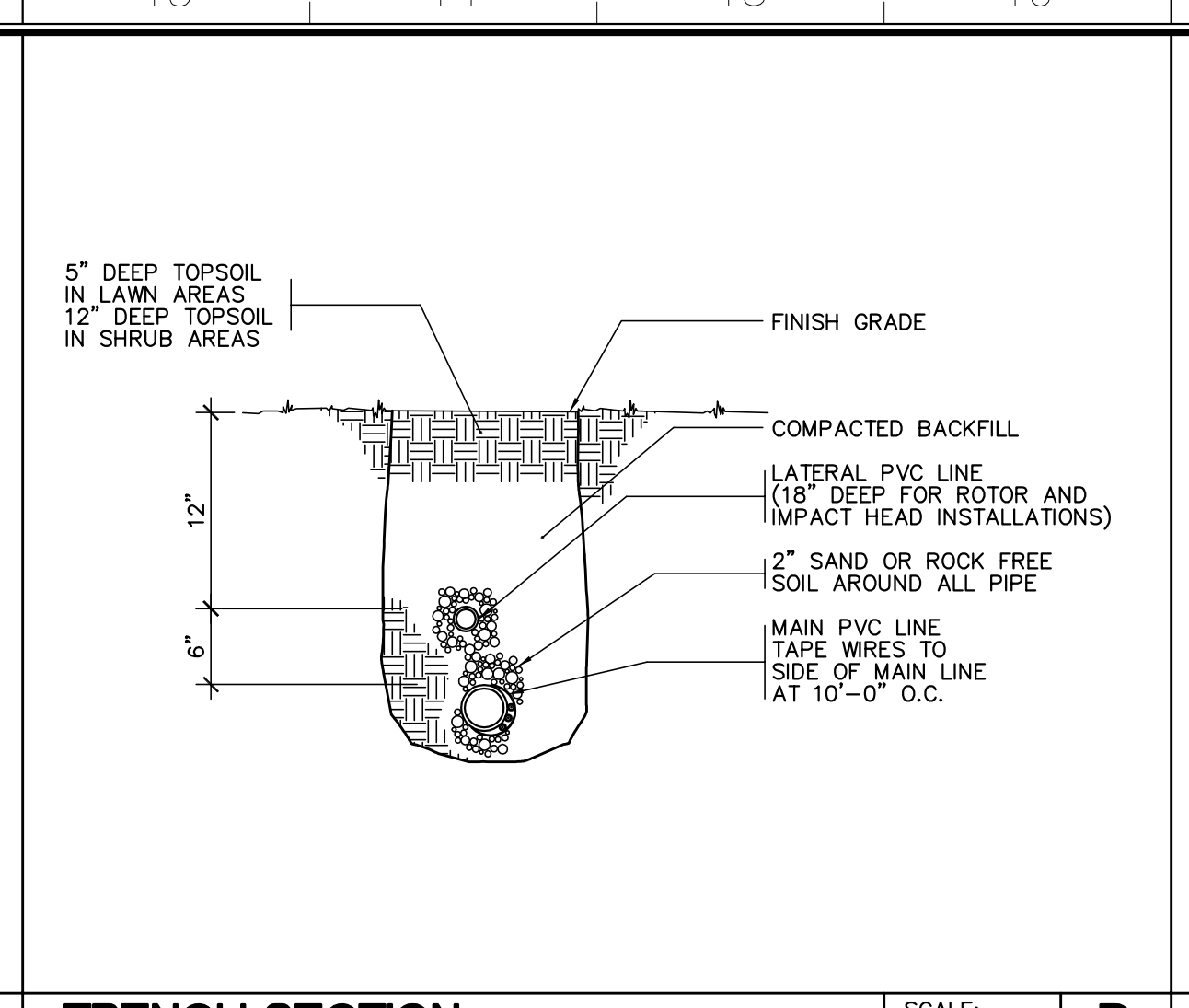
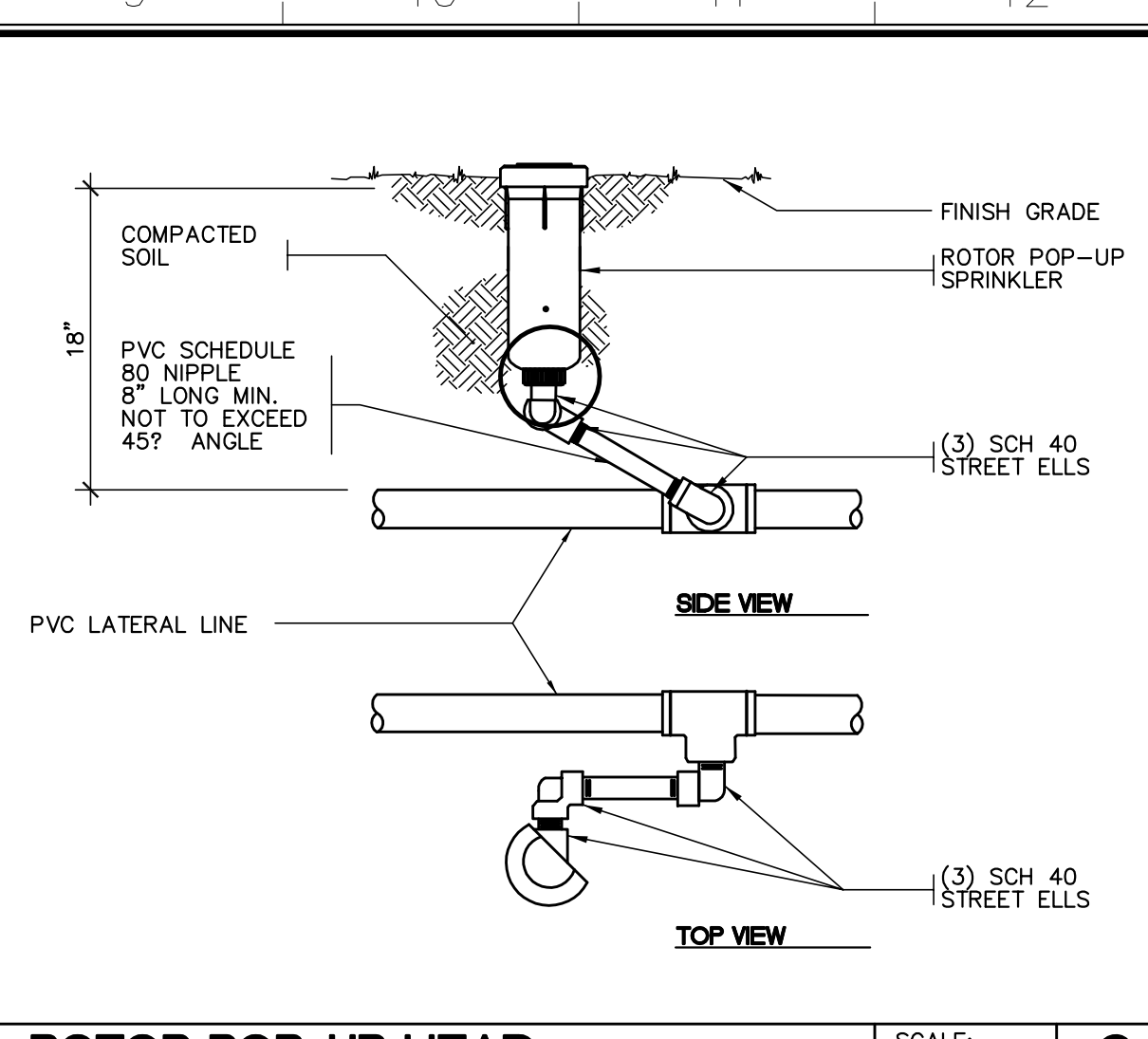
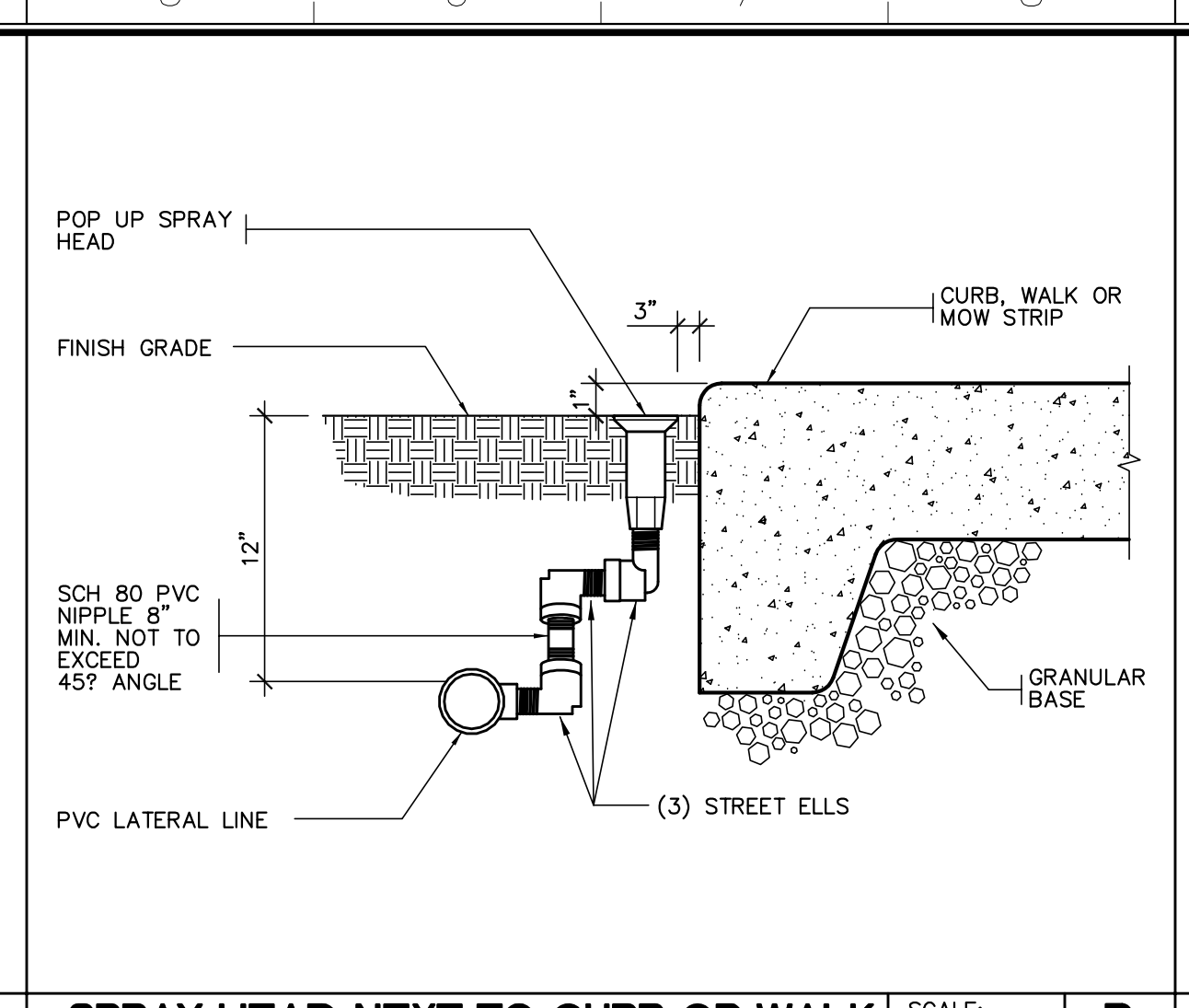
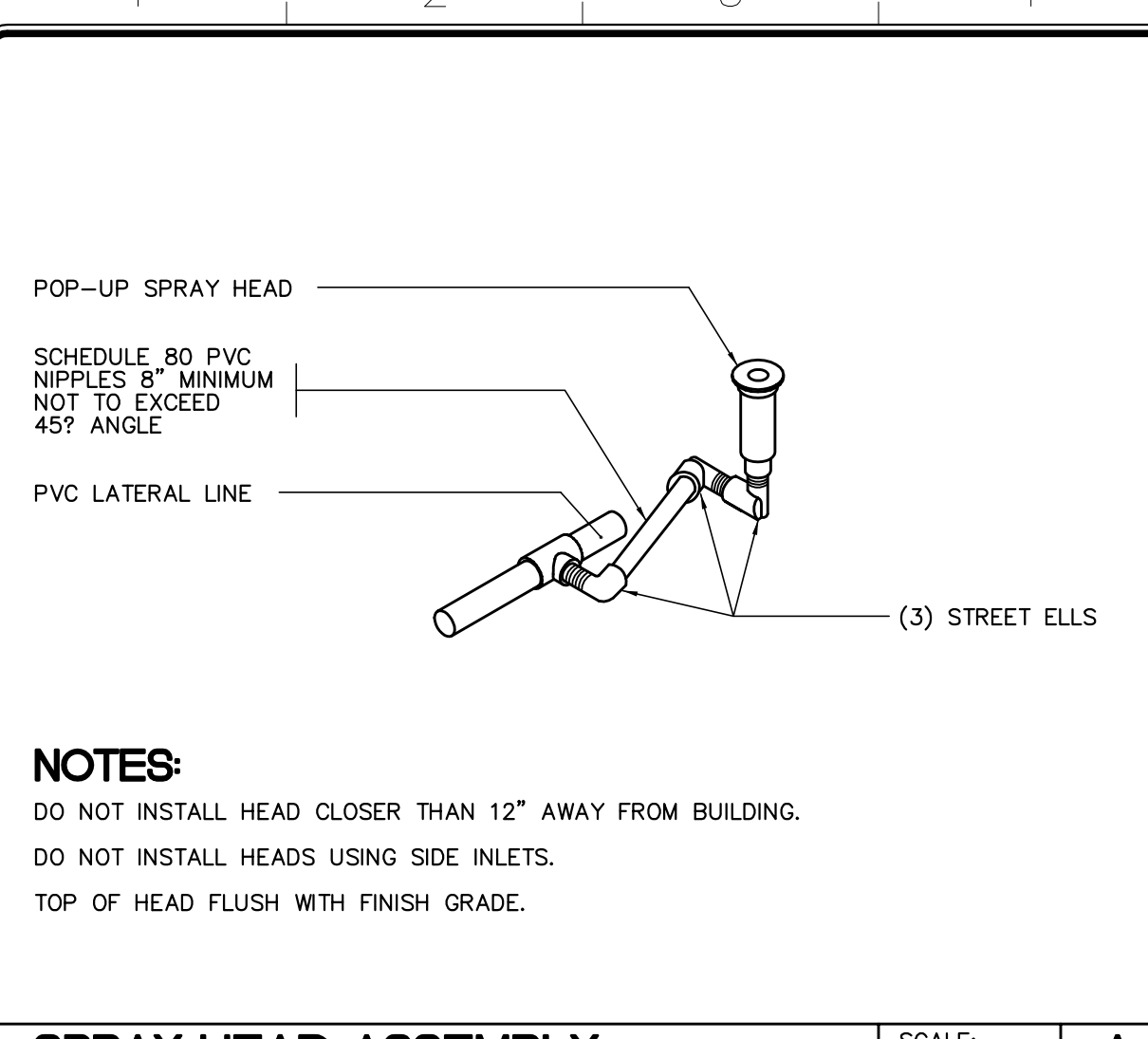
DECOMPOSED GRANITE PAVING SCALE: 1" = 1'-0" **N**

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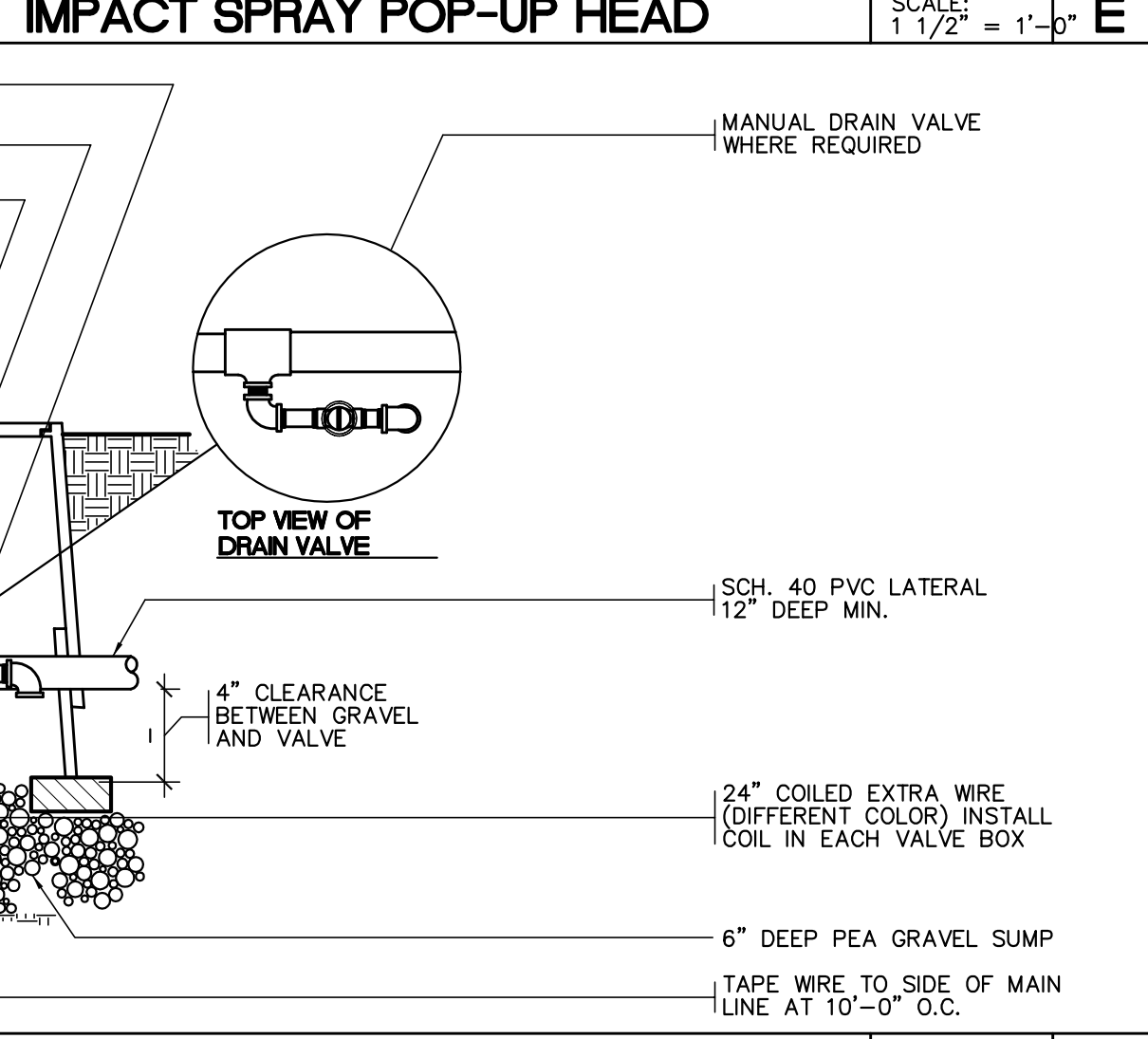
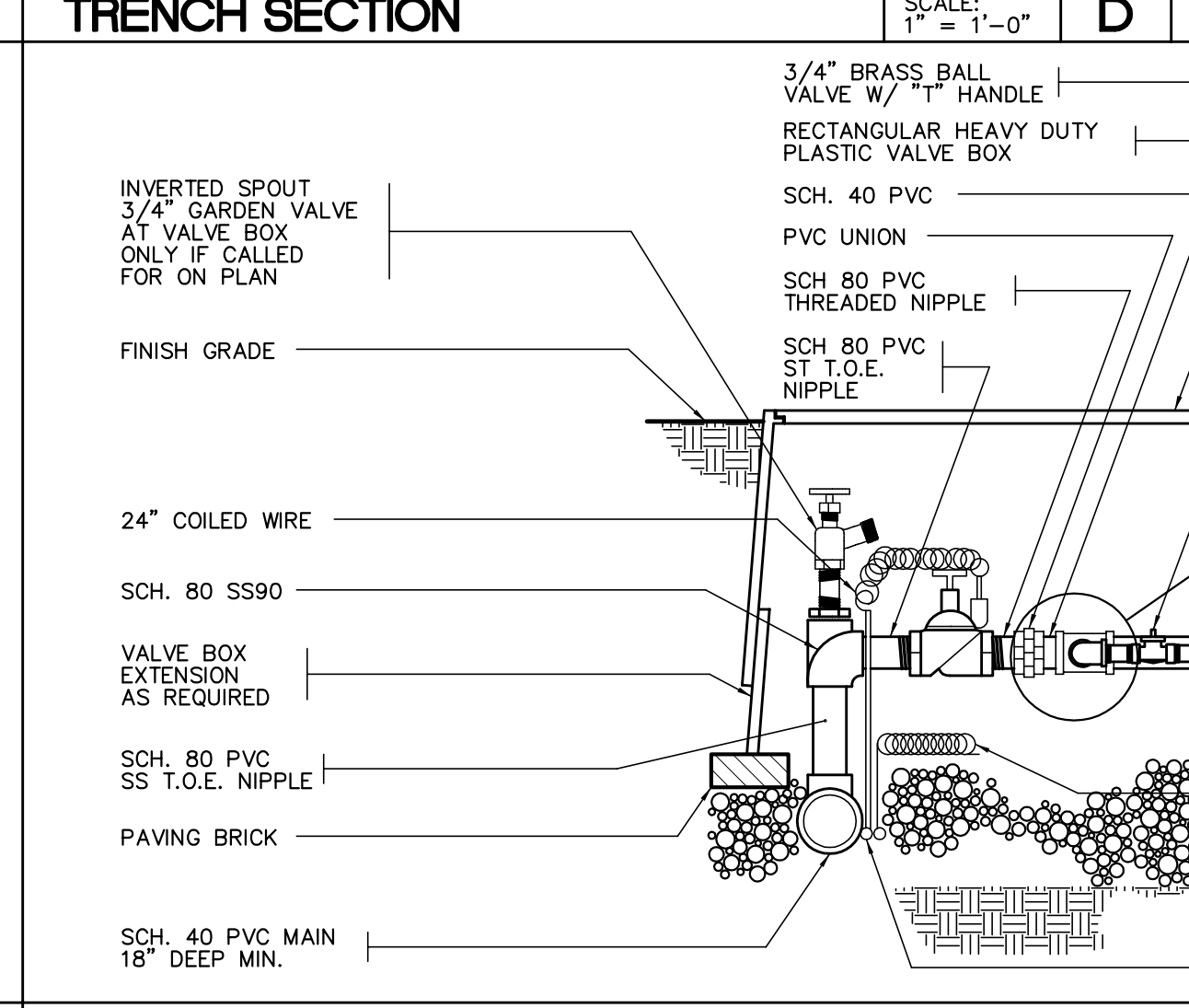
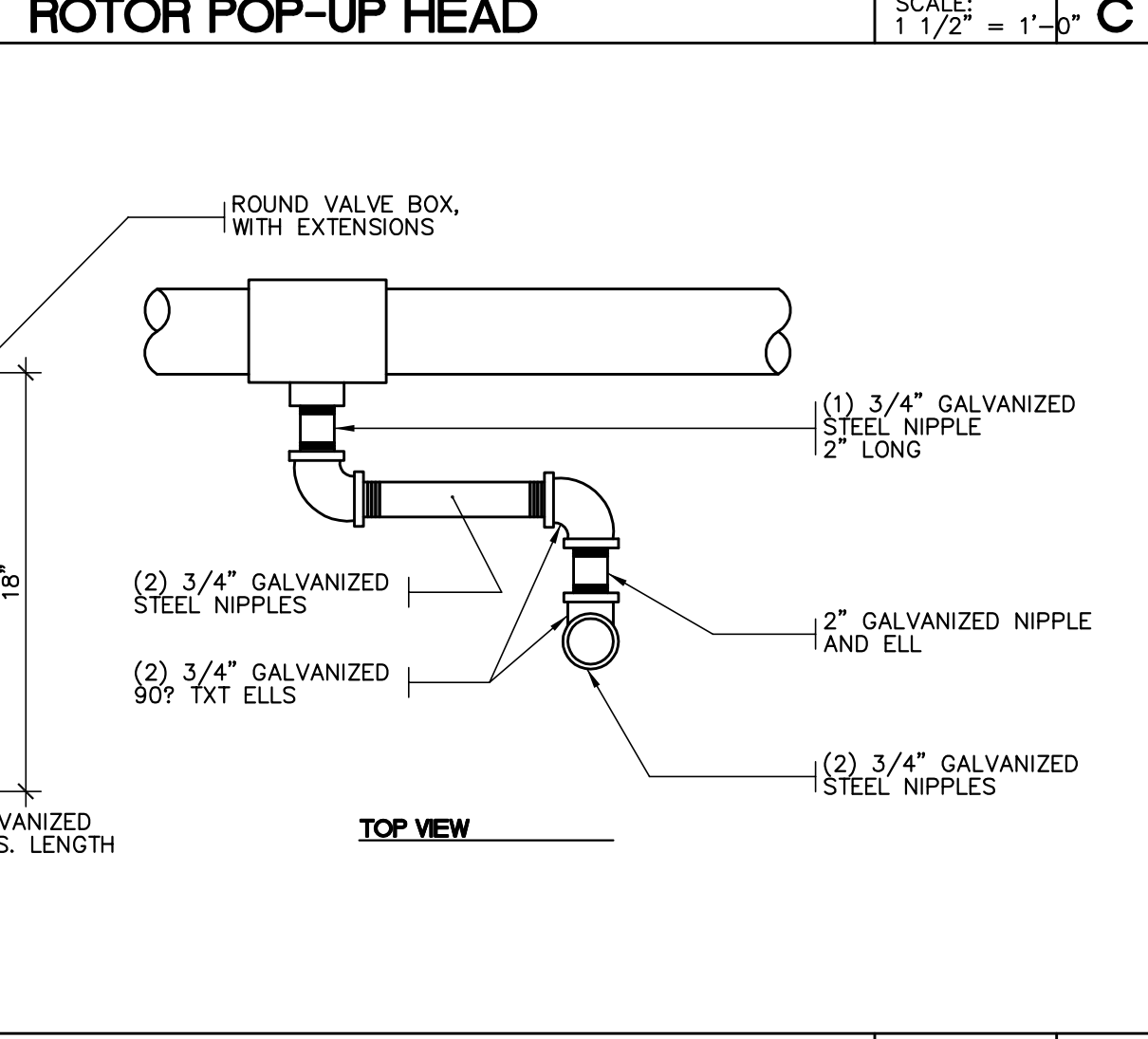
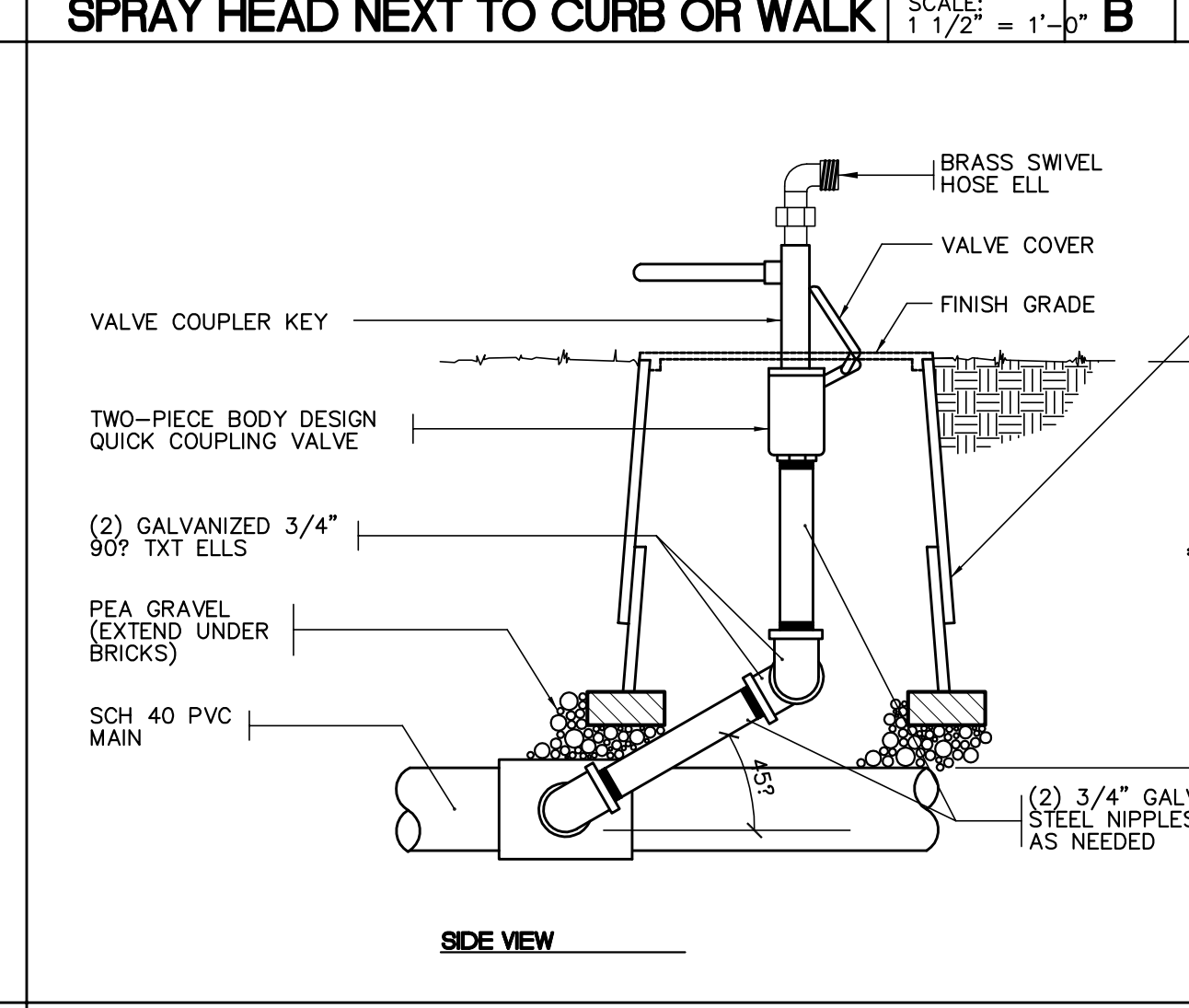
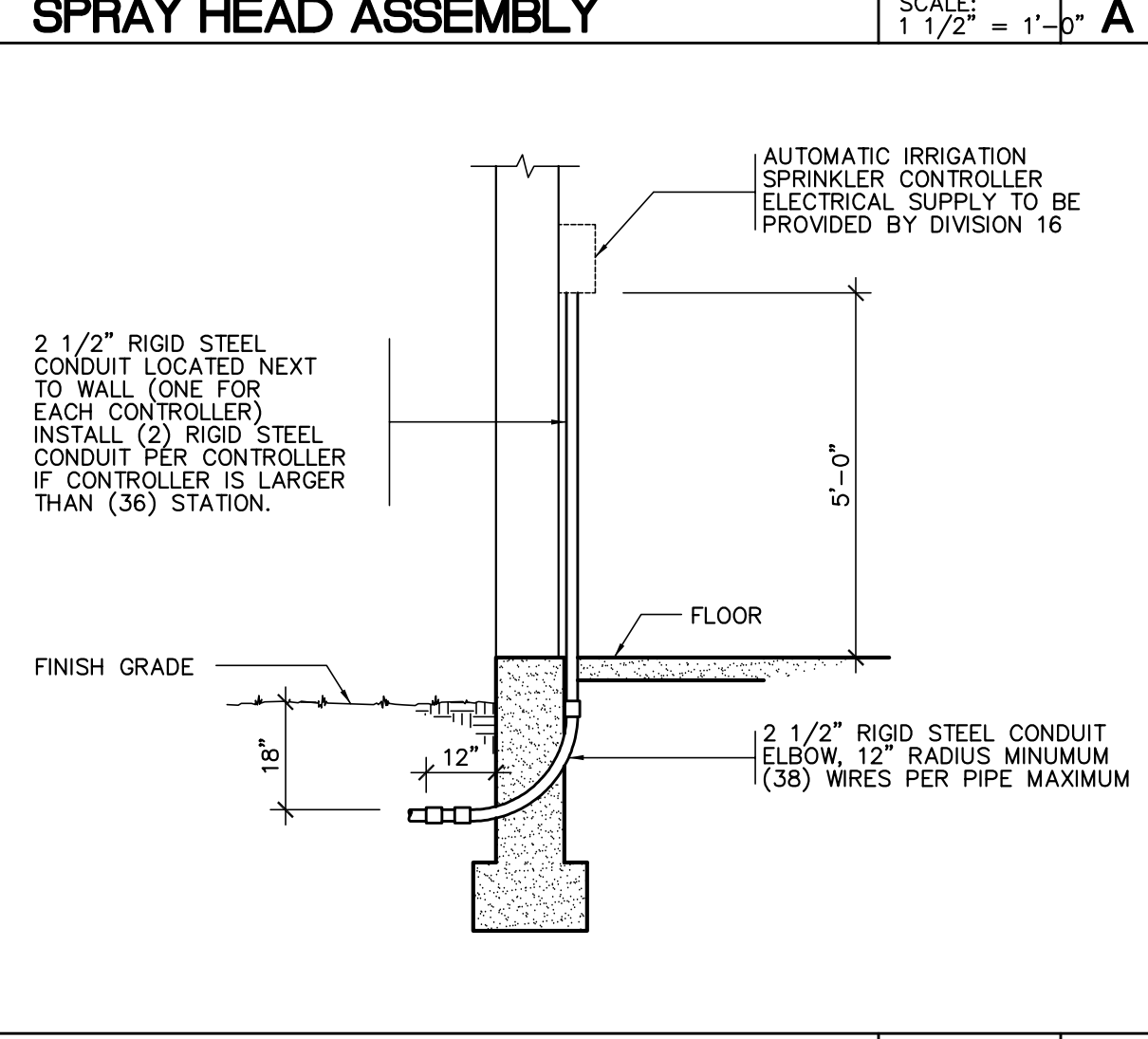
Project Title
**IMPERIAL VALLEY COLLEGE
RESTROOM/CONCESSION BUILDING**

Sheet Title
PLANTING DETAILS

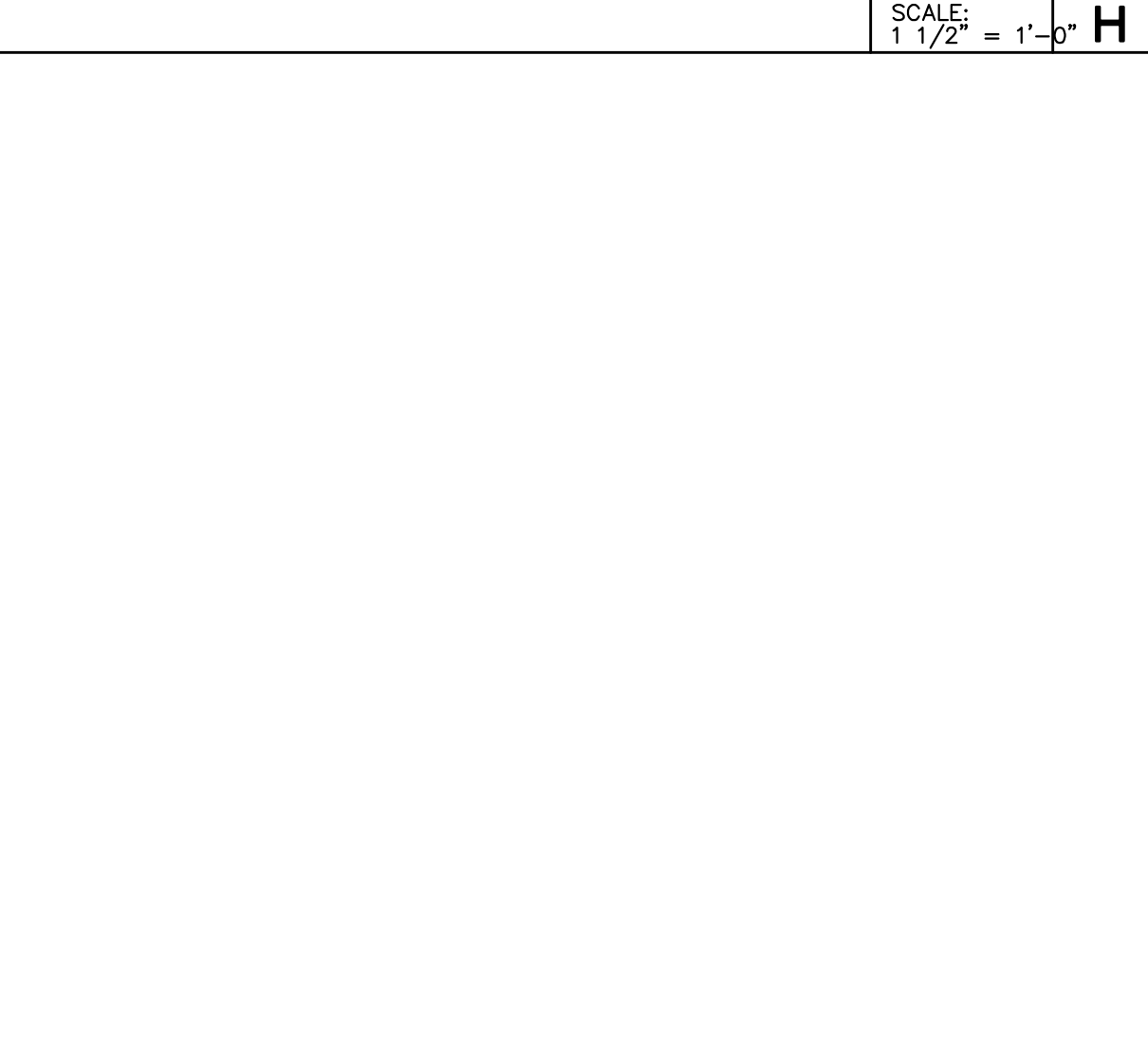
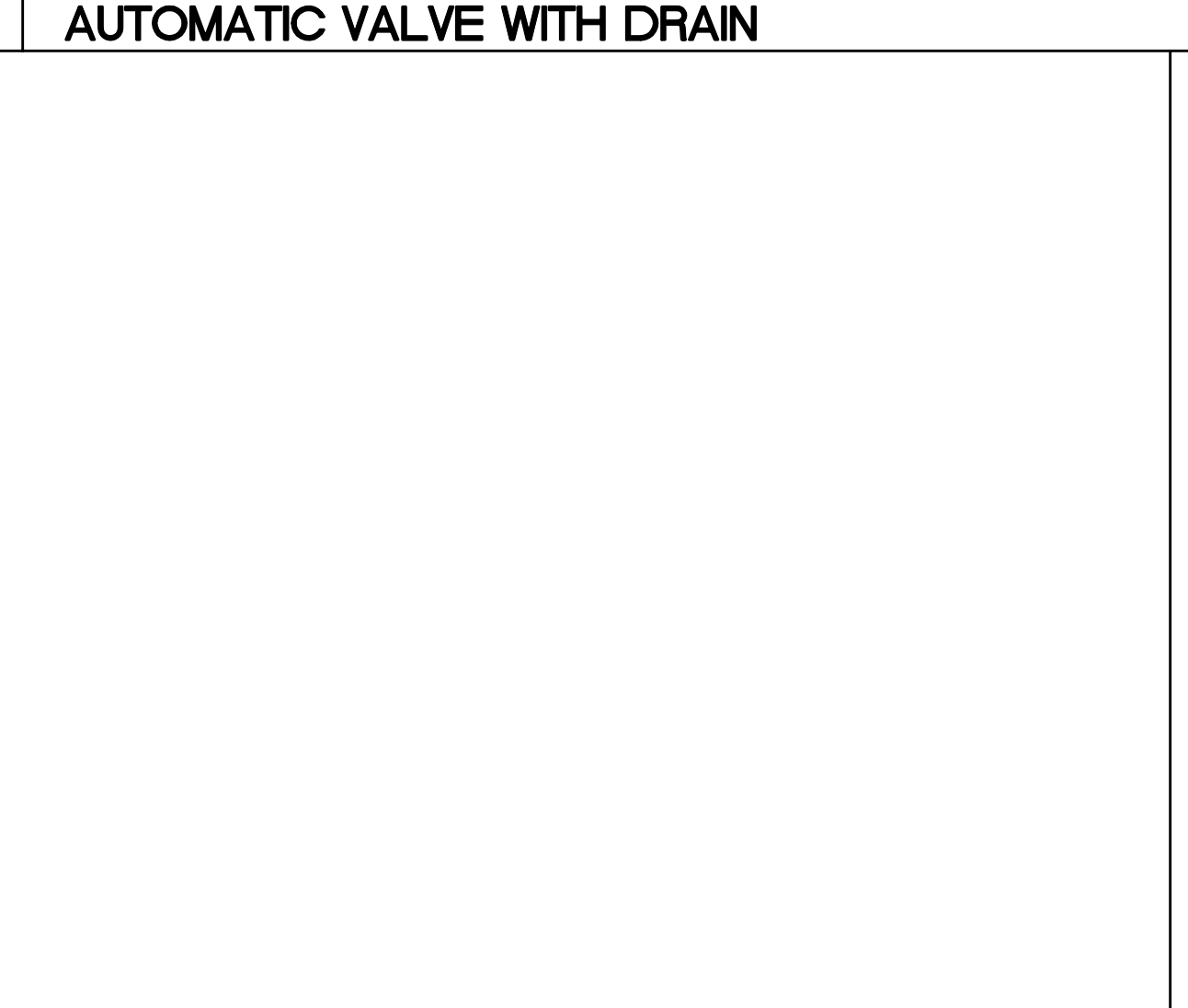
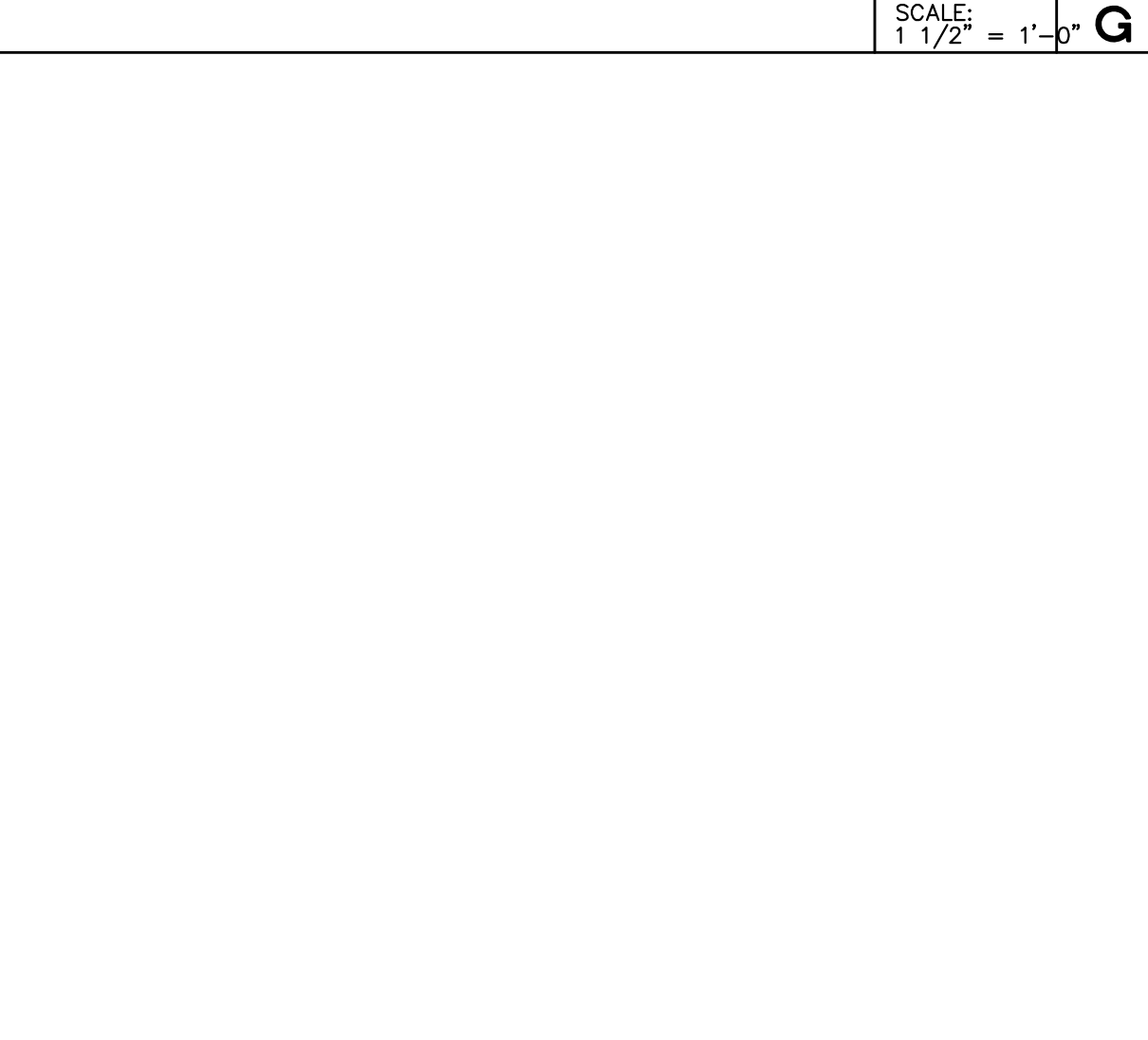
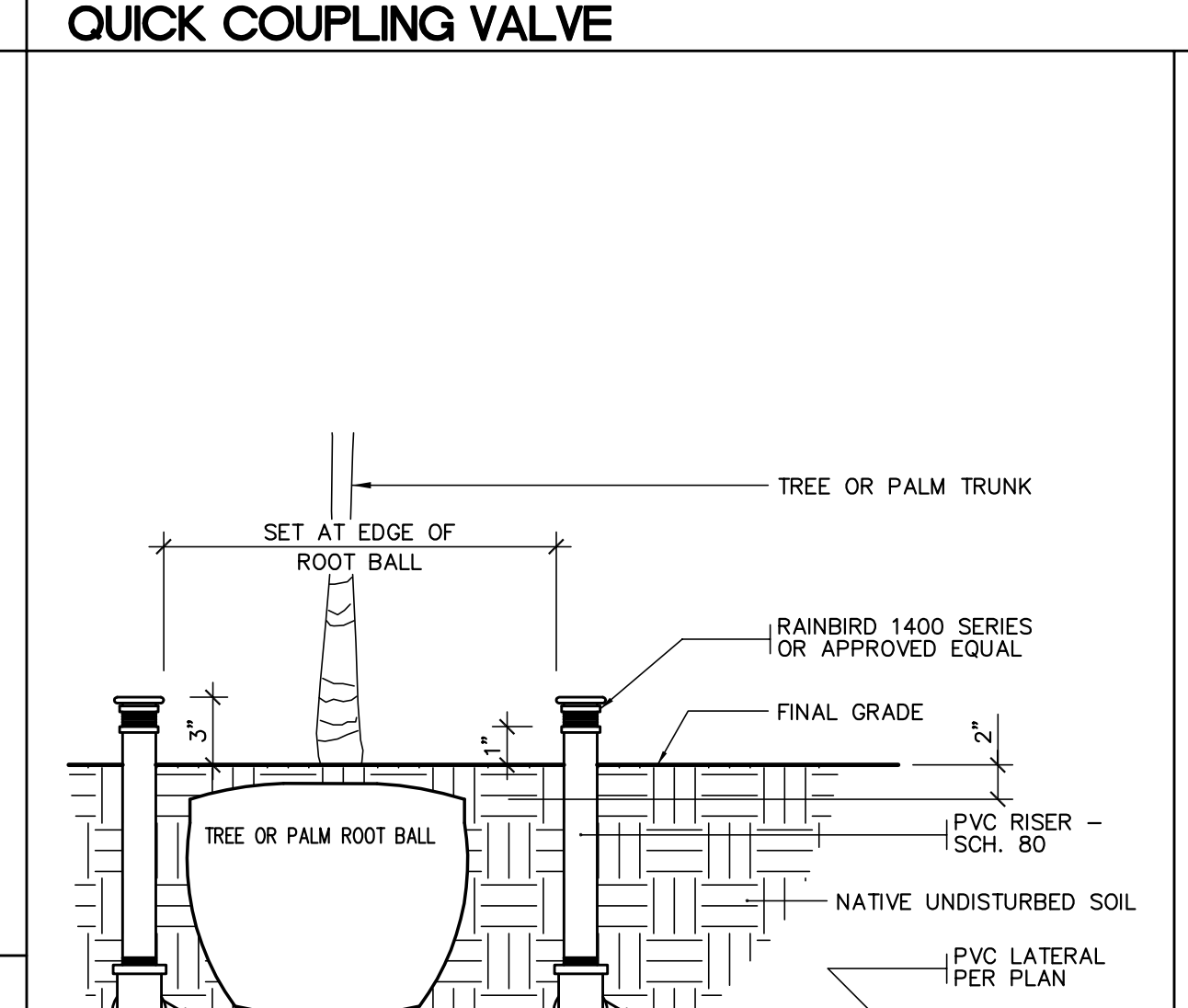
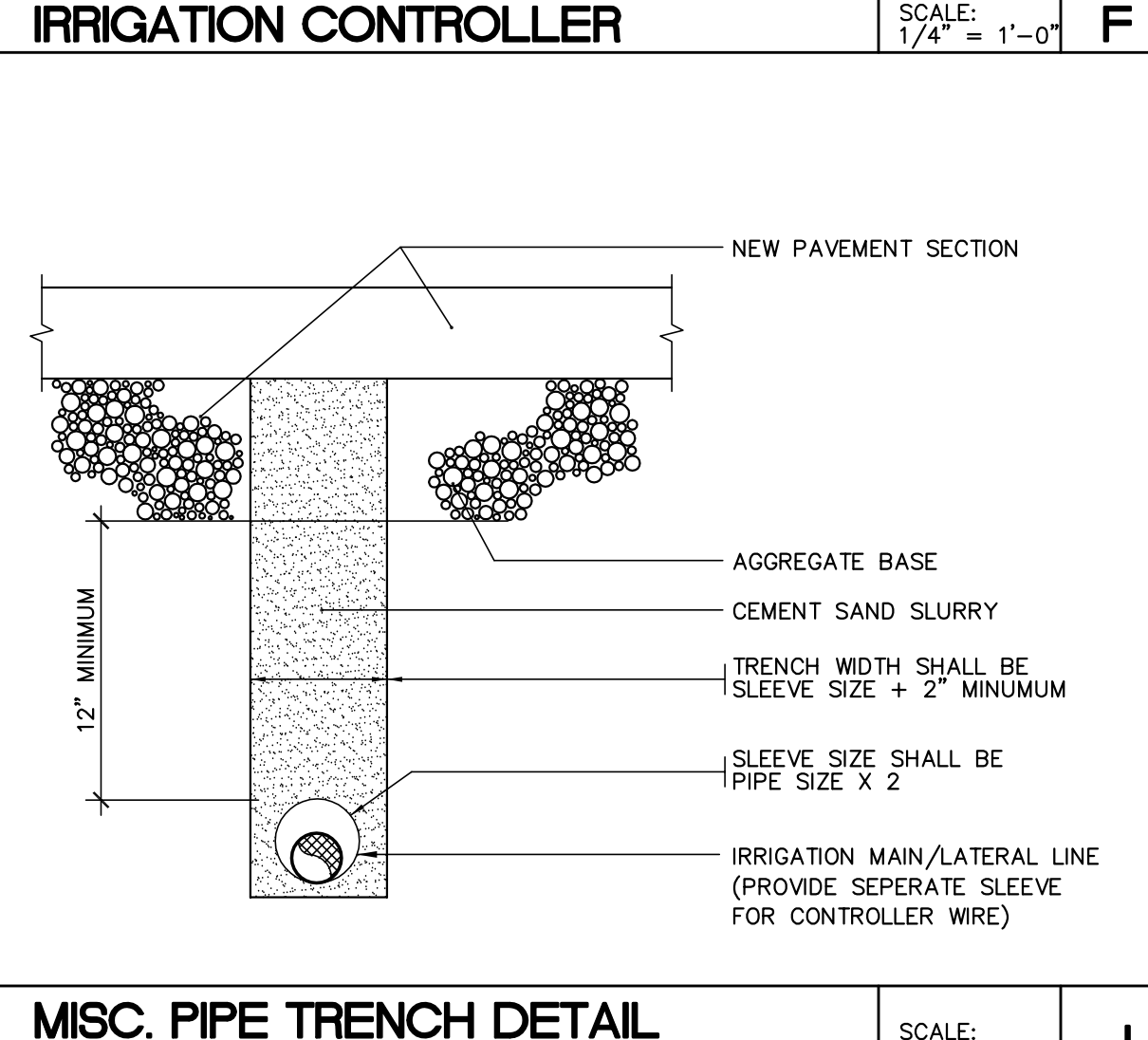
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	Date Last Revised	Sheet Number LX2.1



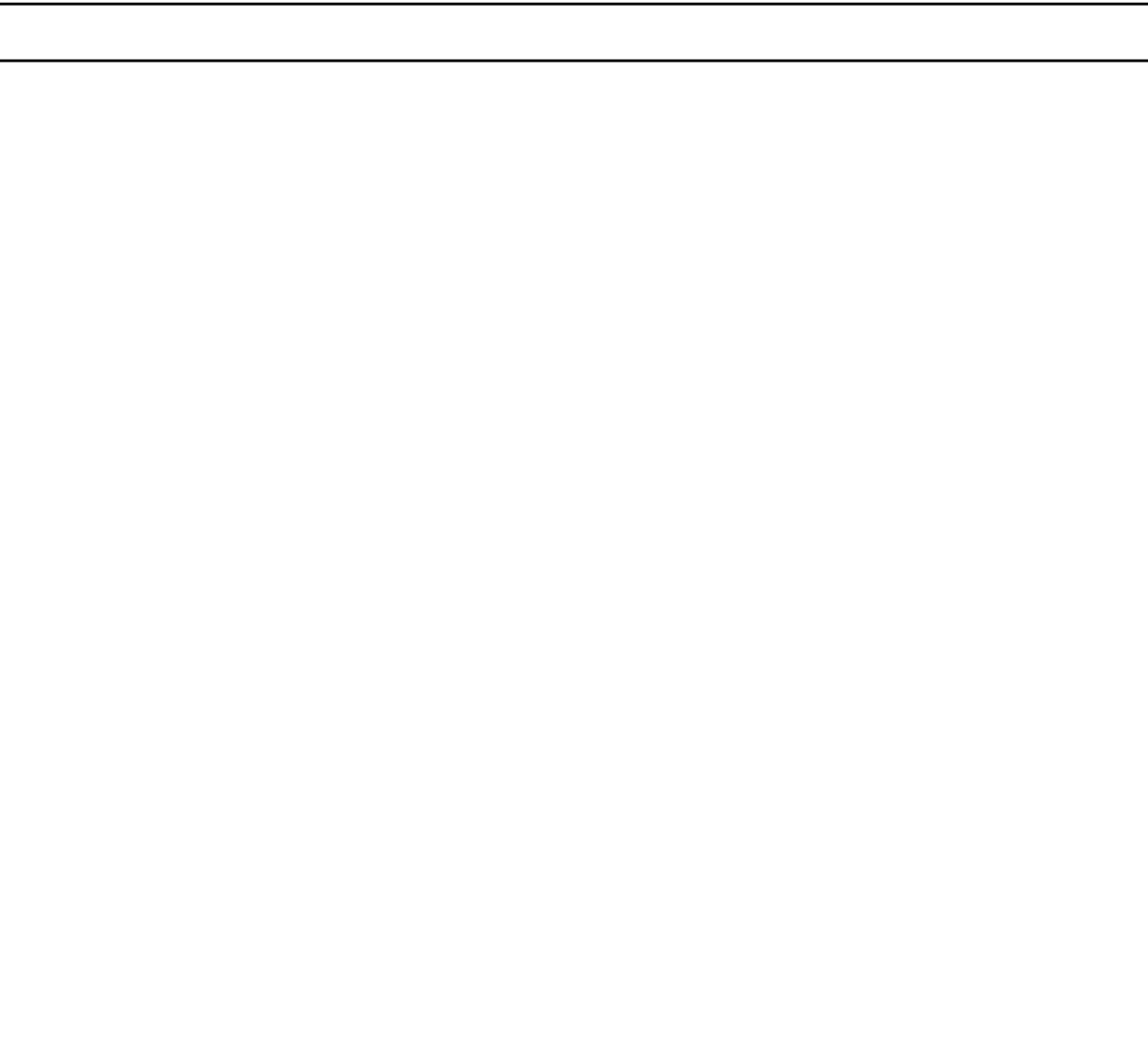
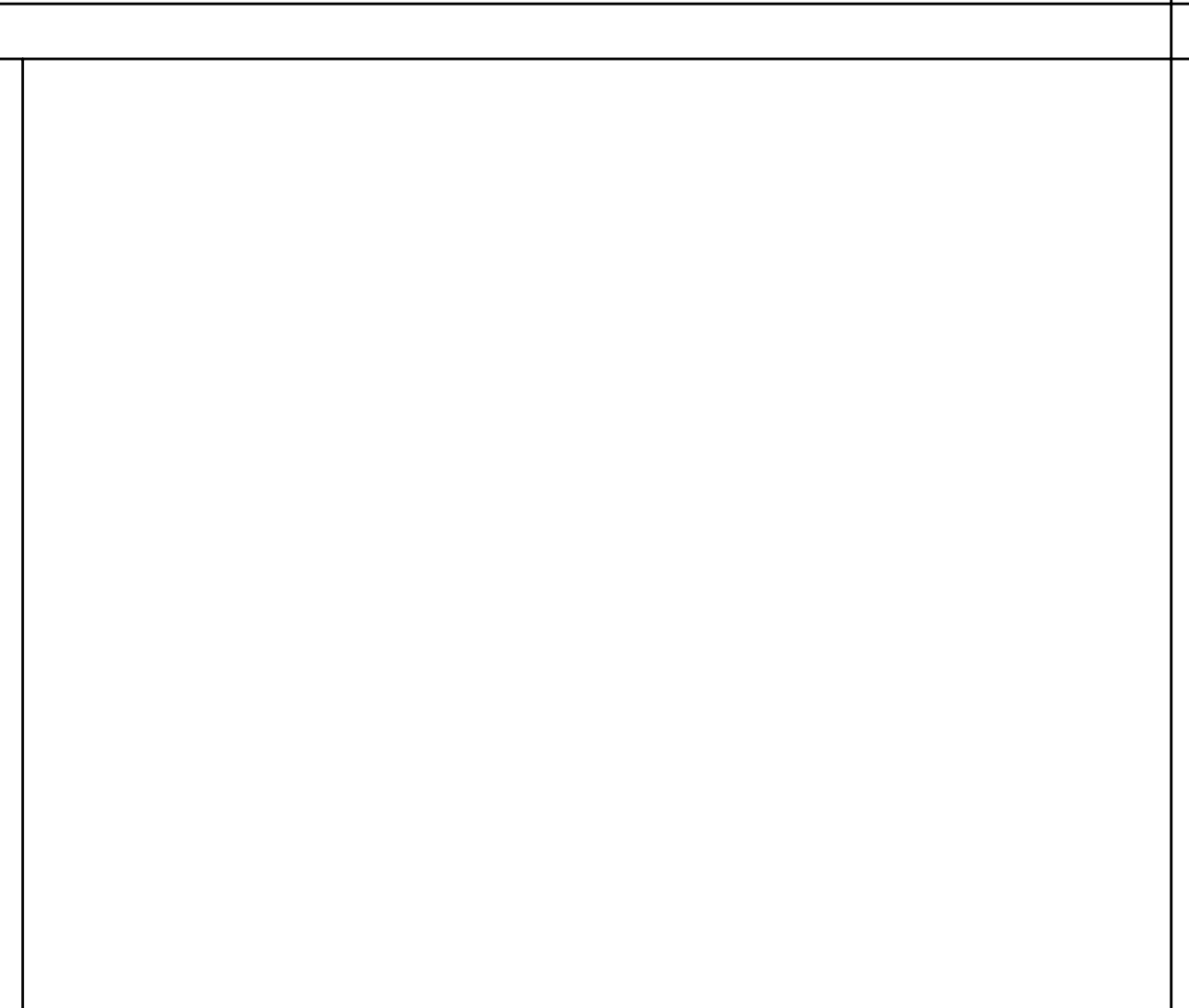
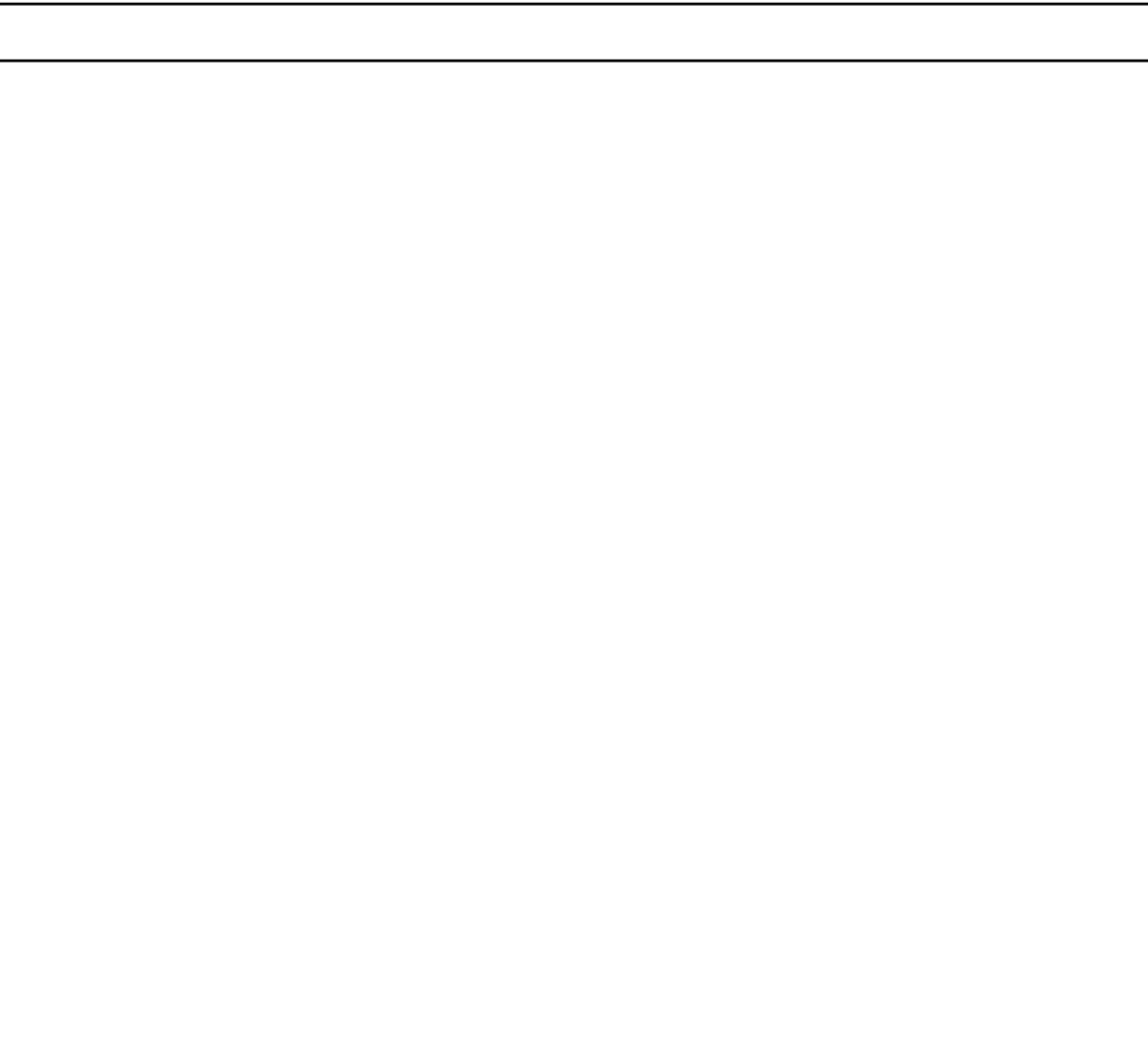
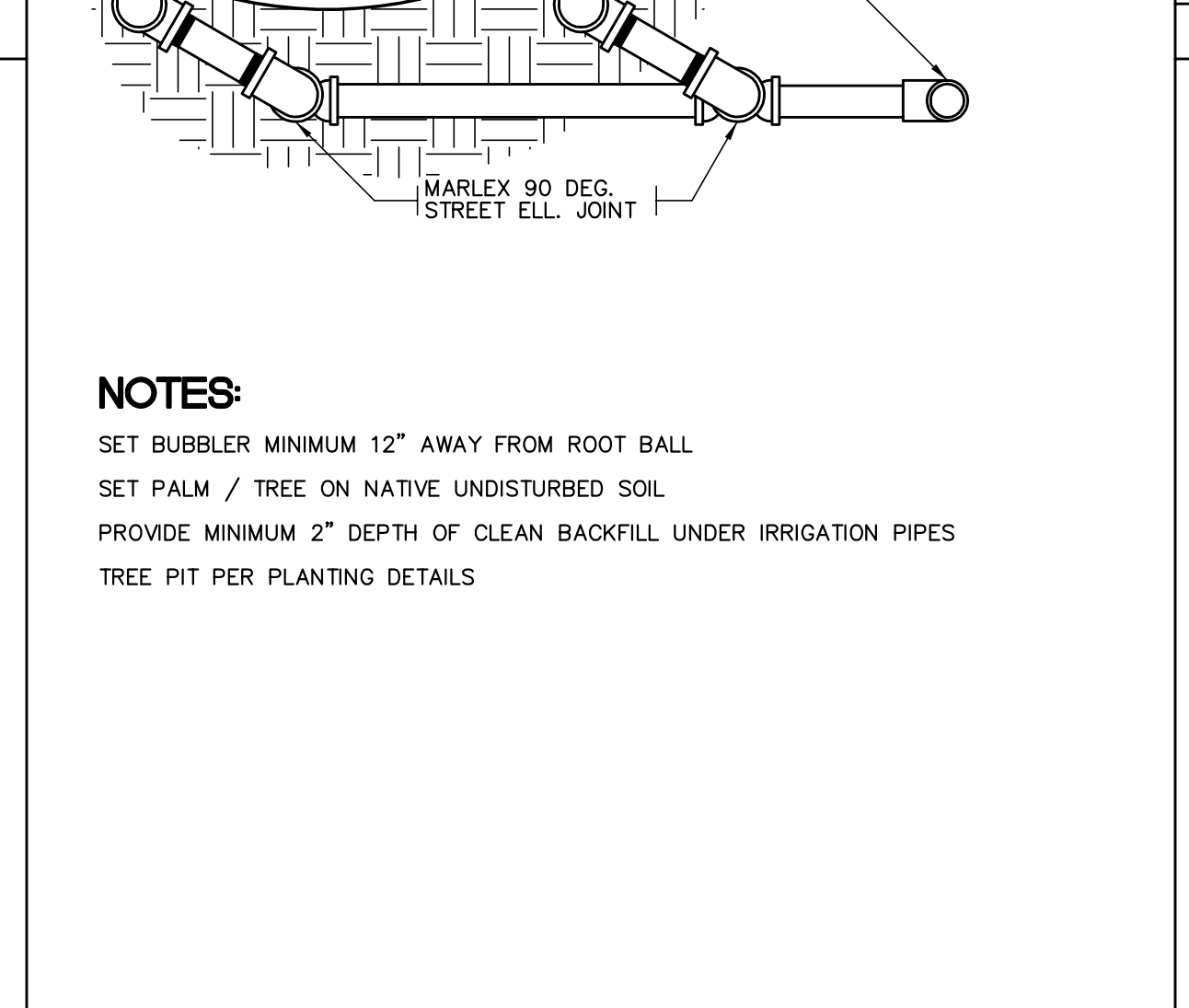
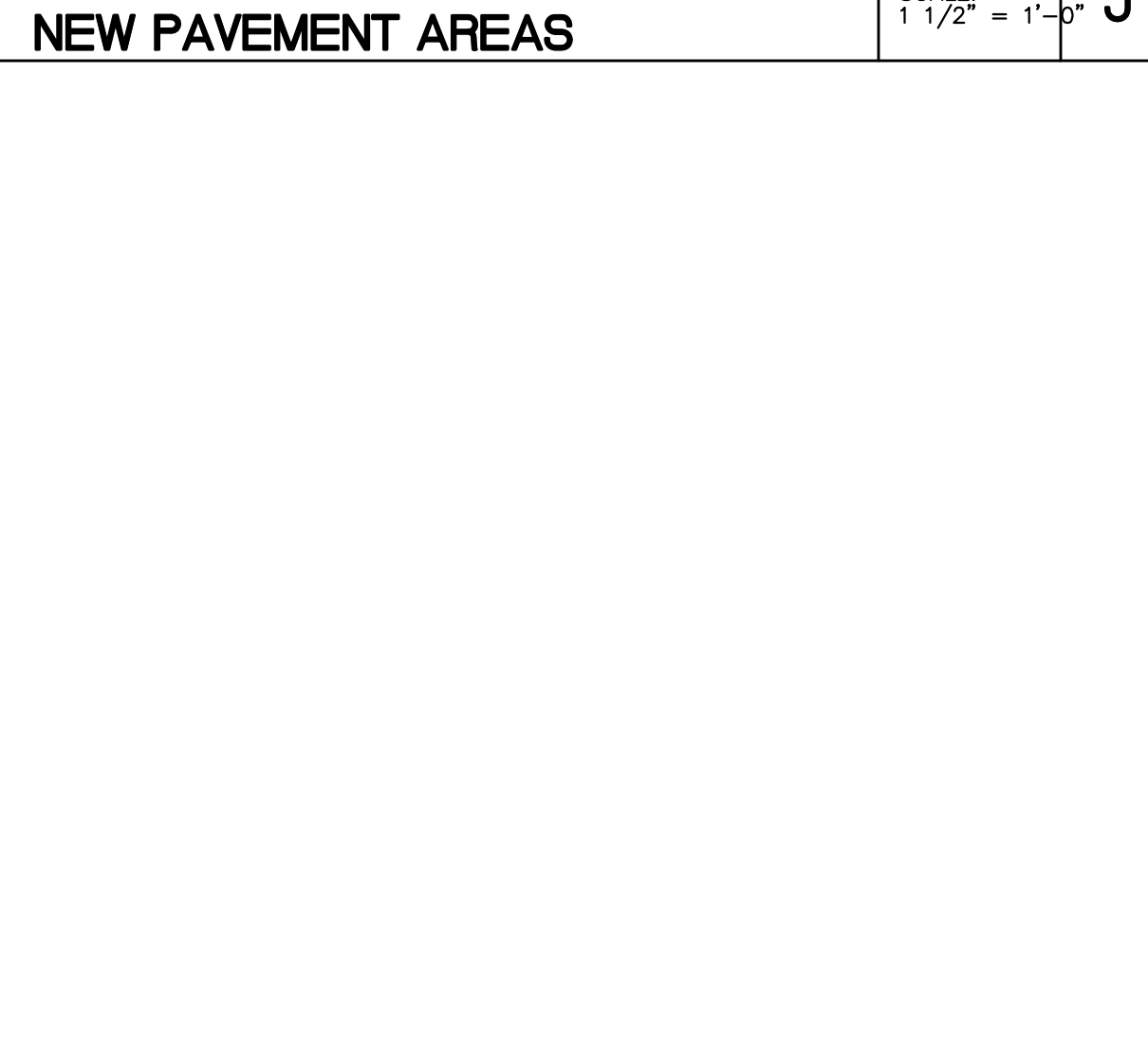
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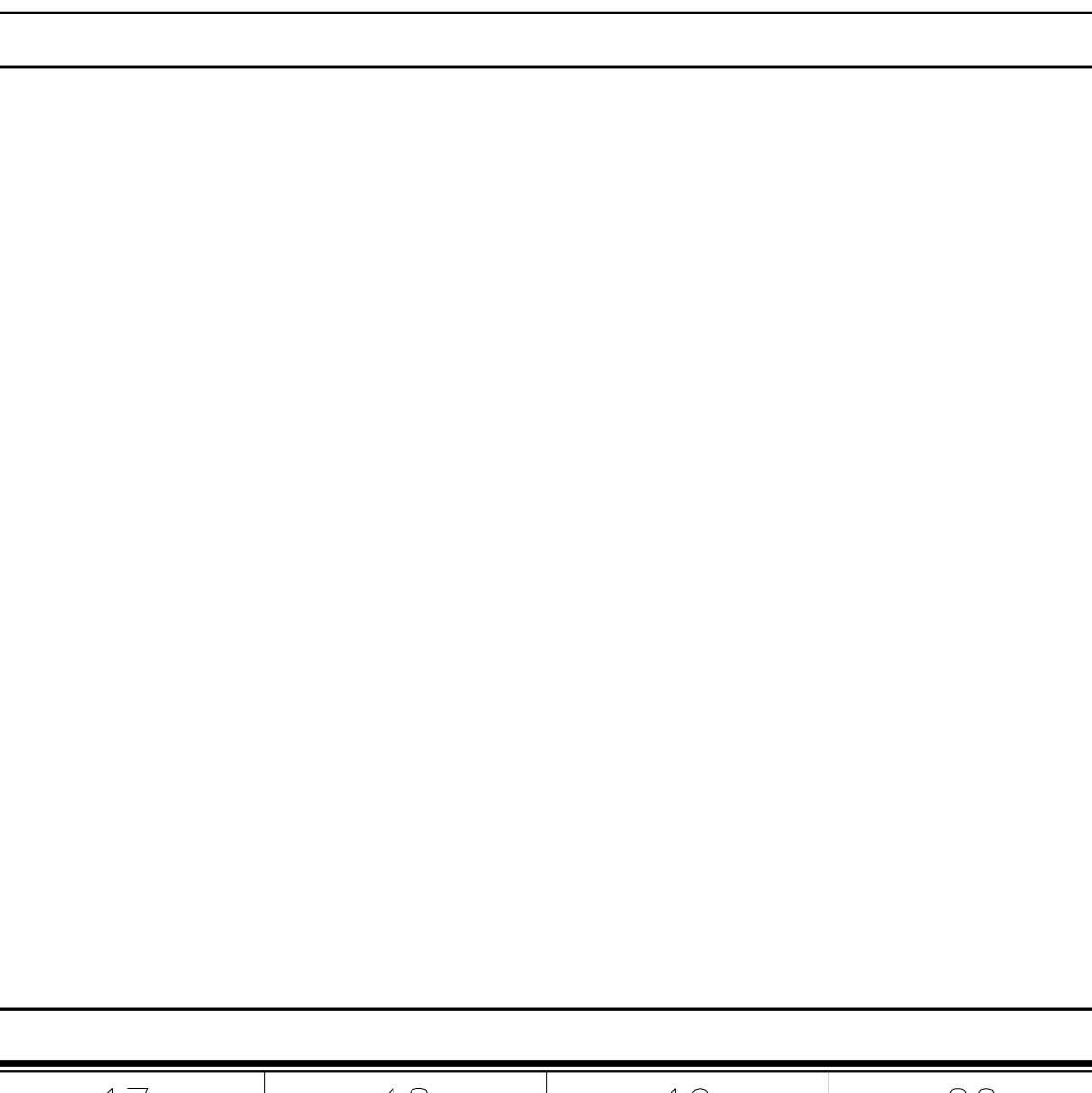
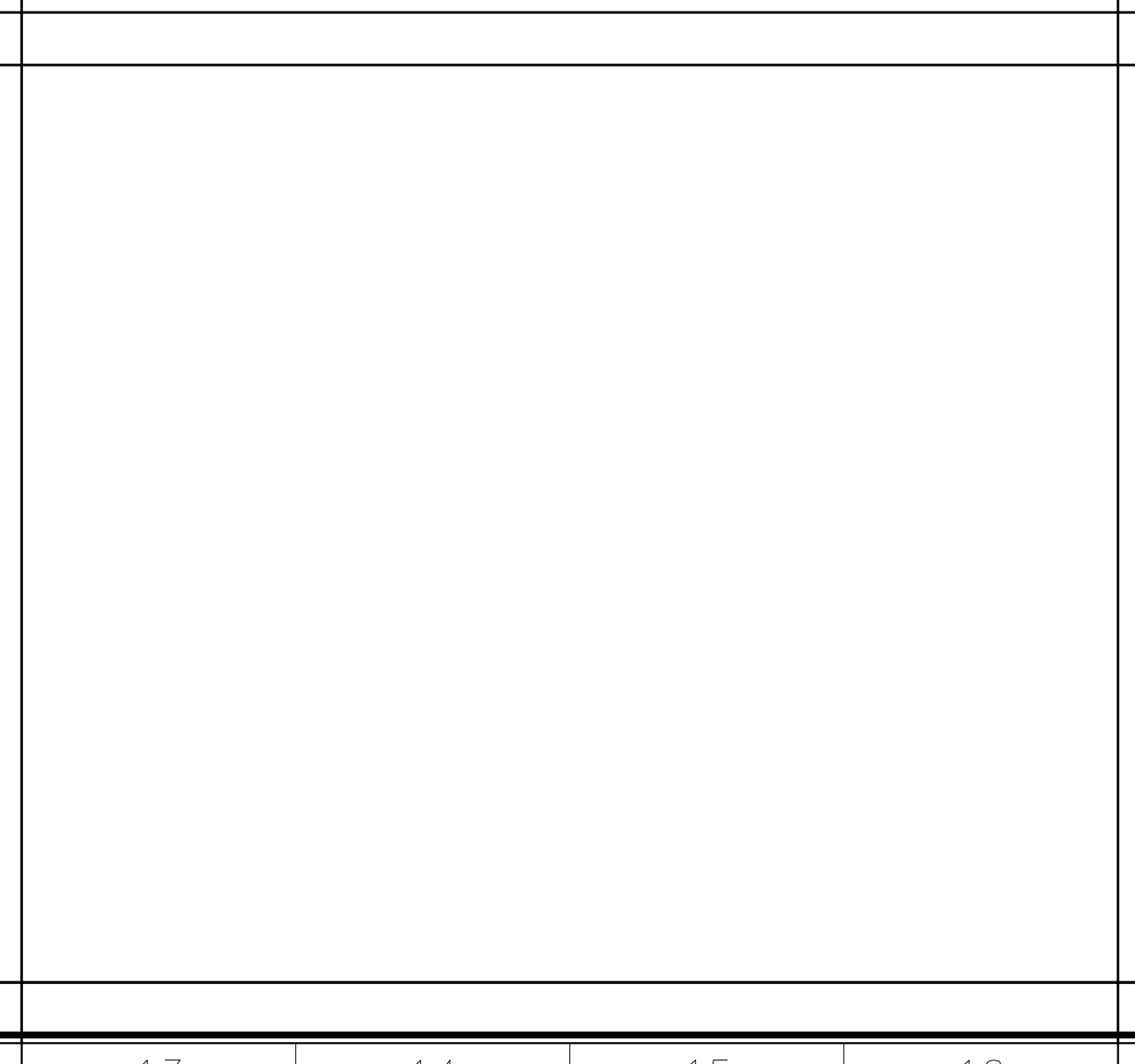
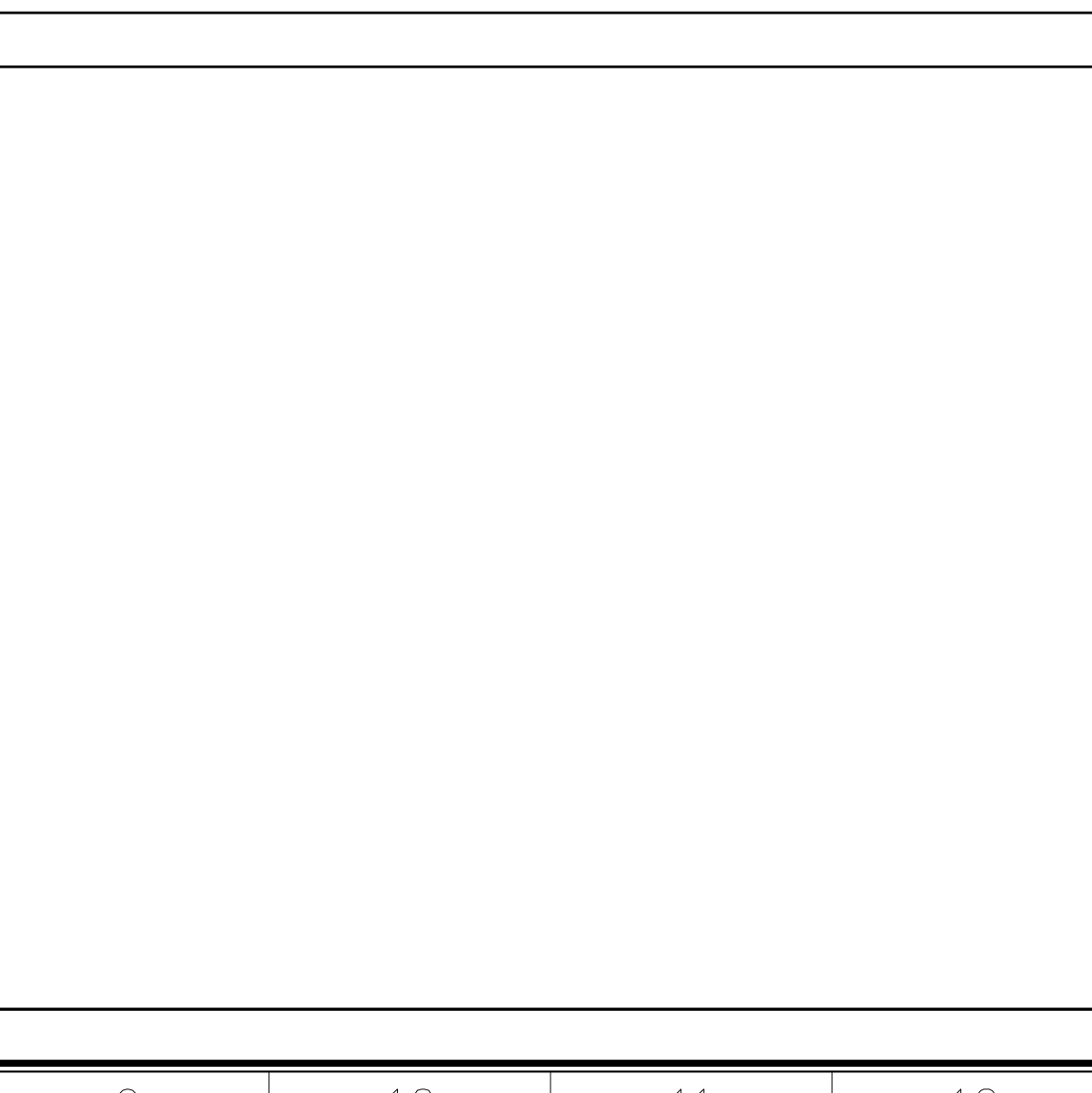
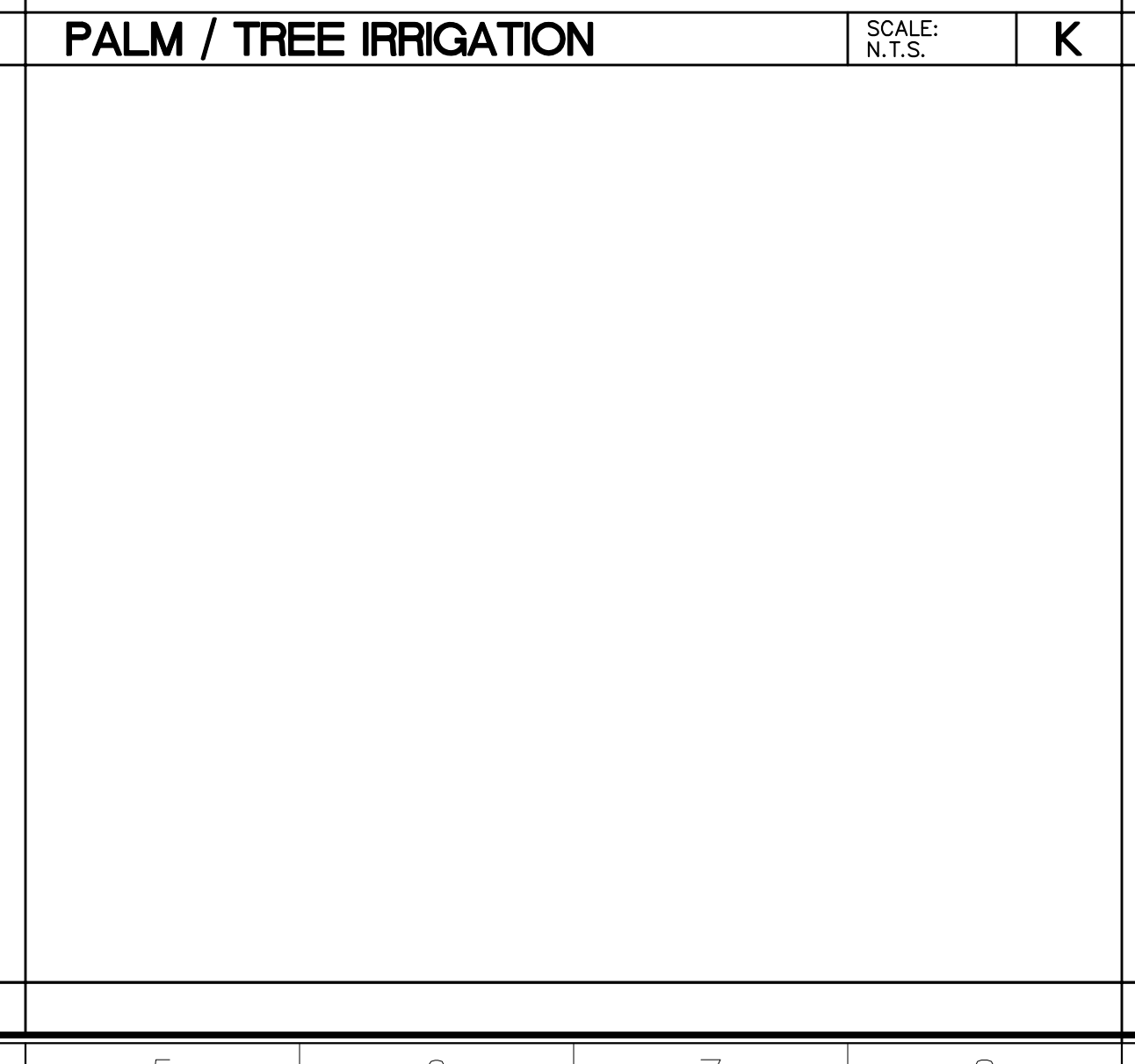
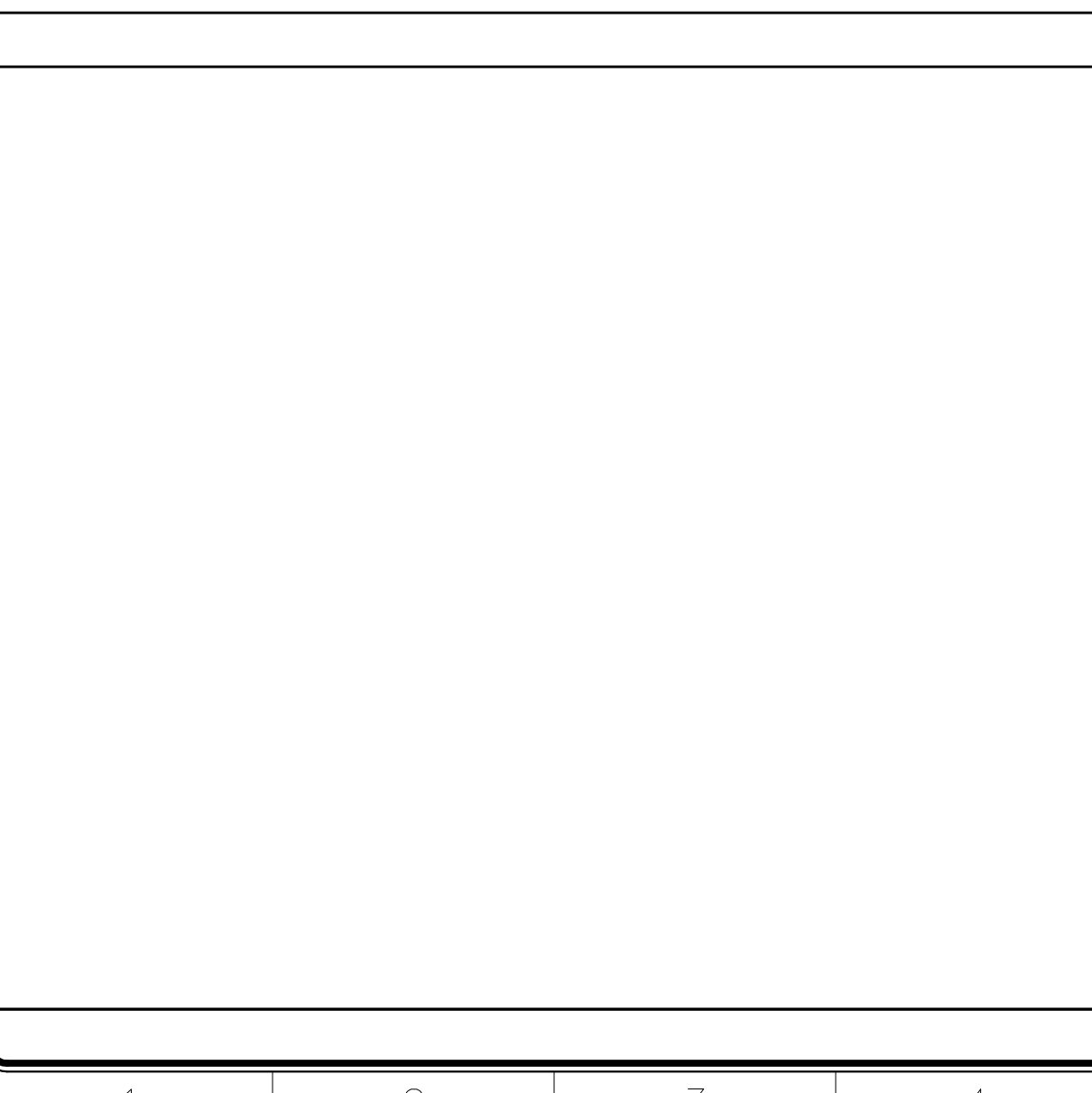
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Project Title
**IMPERIAL VALLEY COLLEGE
RESTROOM/CONCESSION BUILDING**

Sheet Title
IRRIGATION DETAILS - SPRAY

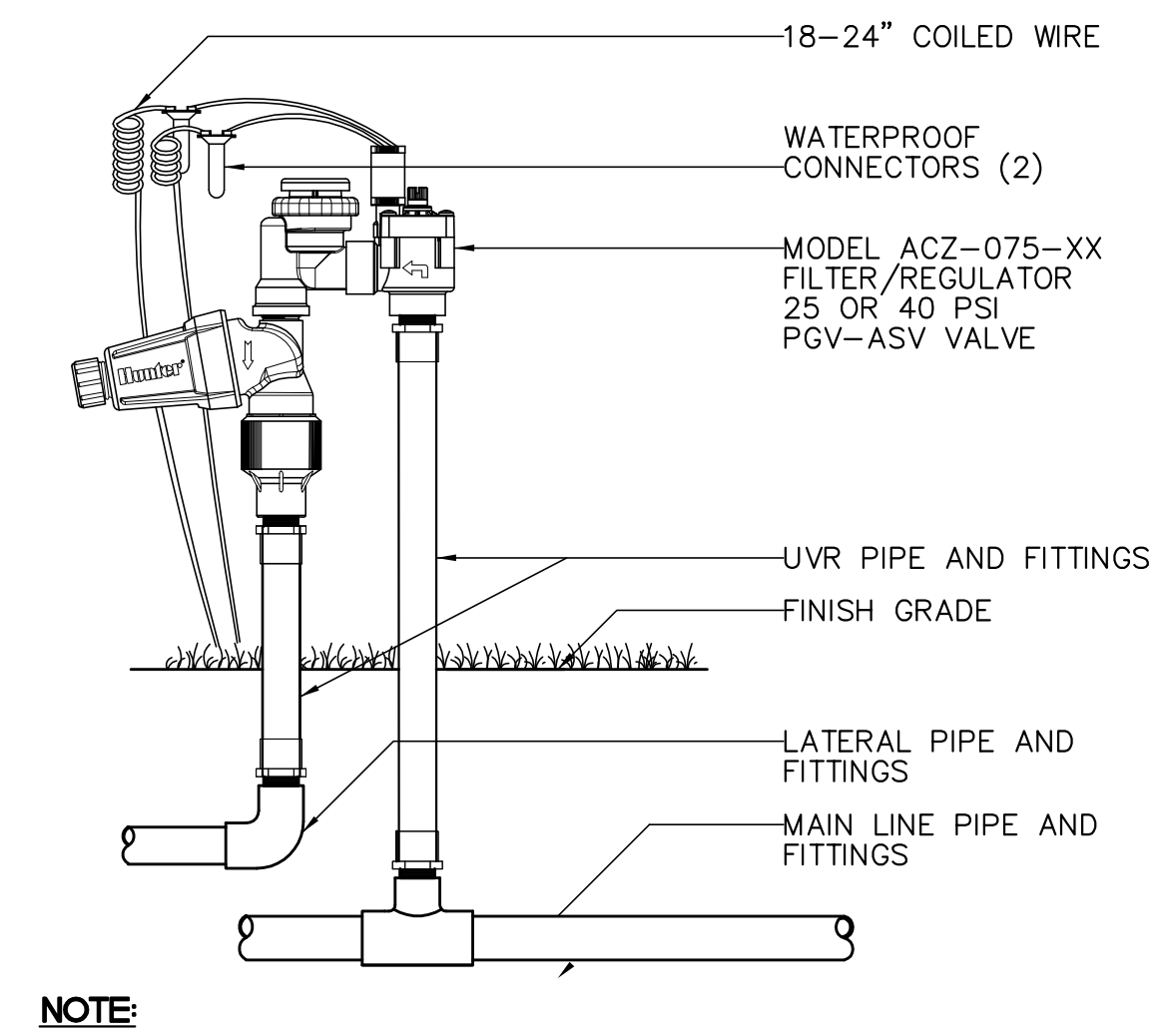
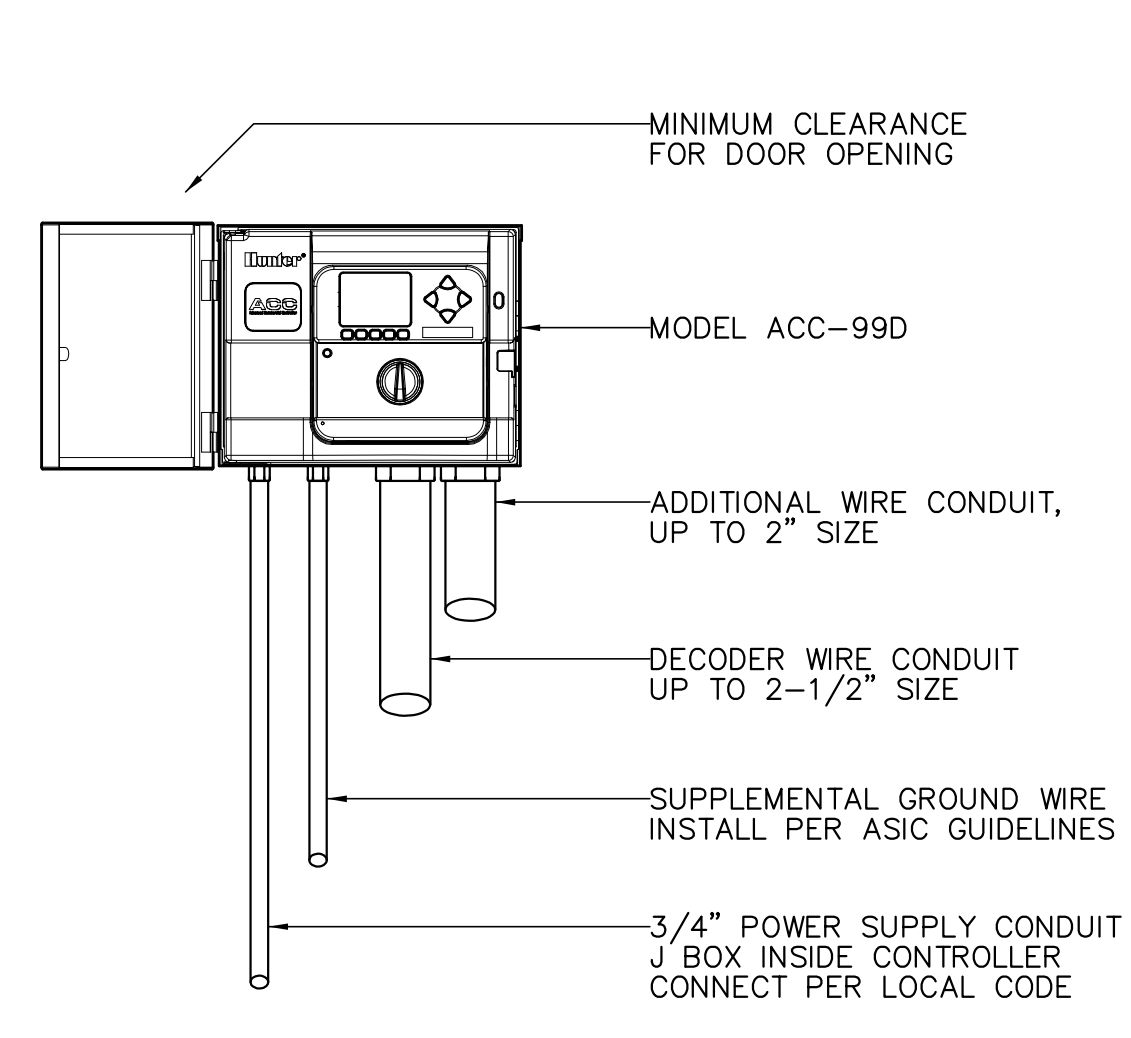
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Date Last Revised

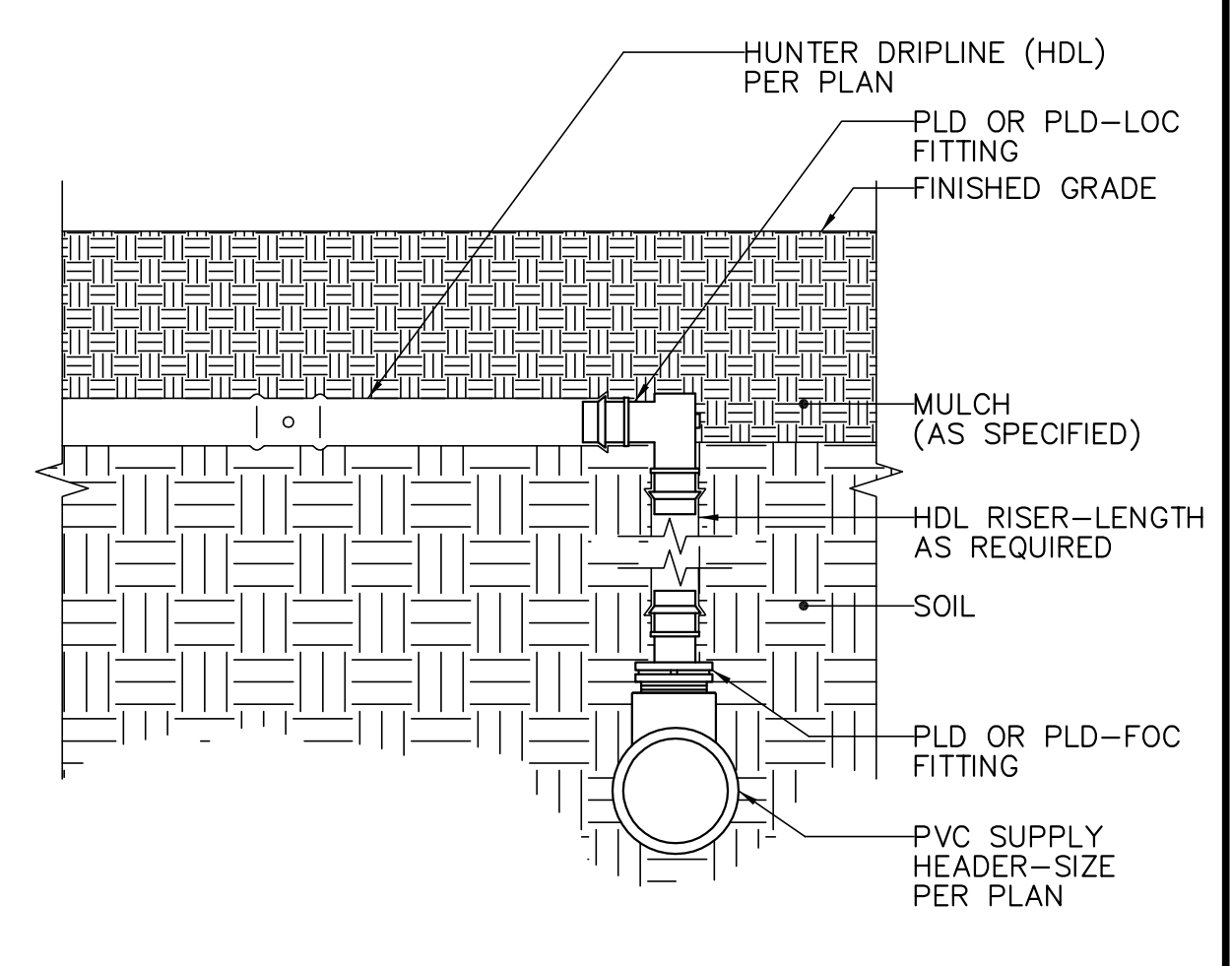
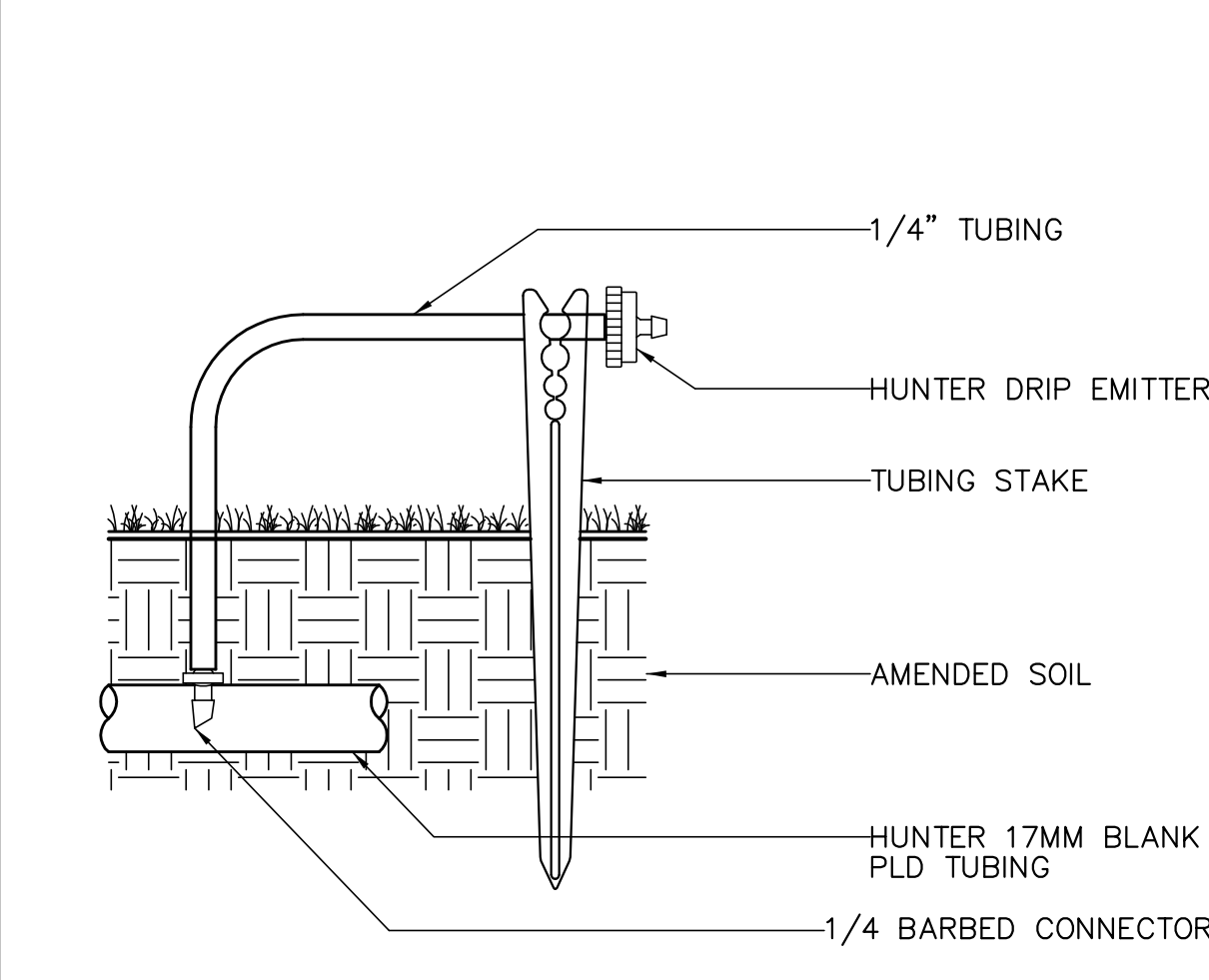
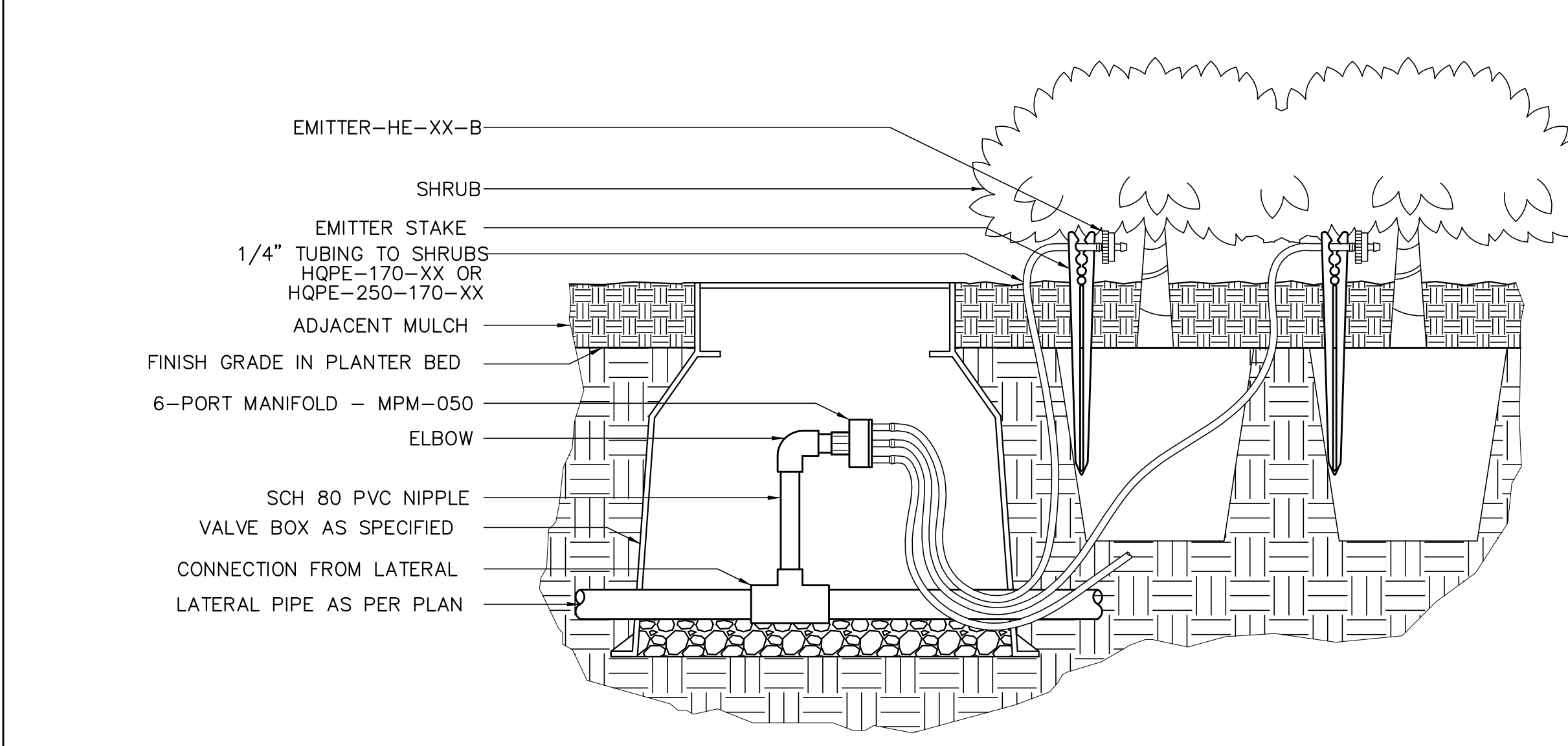
Project Number
22-091V

Sheet Number
LX3.1

LICENSED ARCHITECT
JIMMIE SANDERS
7644
RENEWED 08/23/22
STATE OF CALIFORNIA



NOTE:
ANTI-SIPHON VALVES SHOULD BE INSTALLED 6-12" ABOVE THE HIGHEST SPRINKLER HEAD WITHIN THE ZONE, OR, ACCORDING TO LOCAL CODE



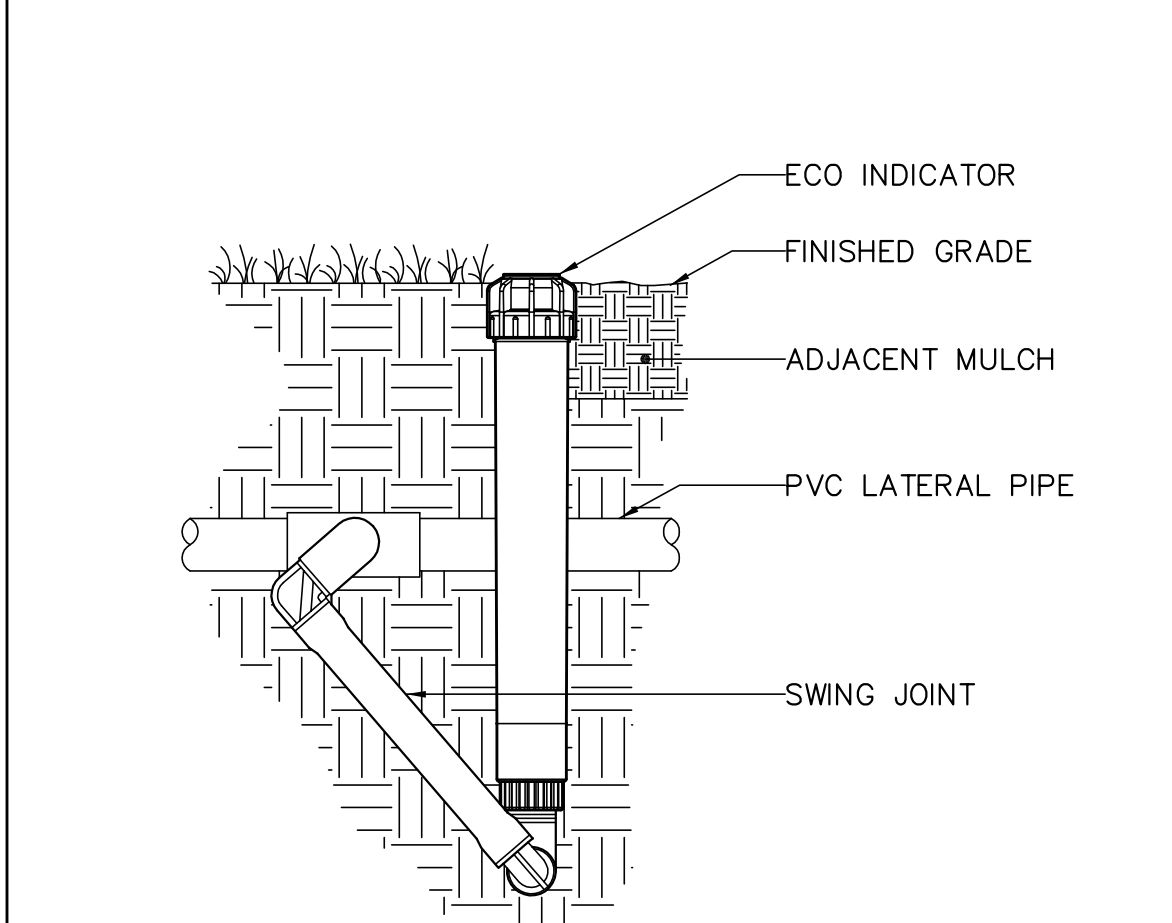
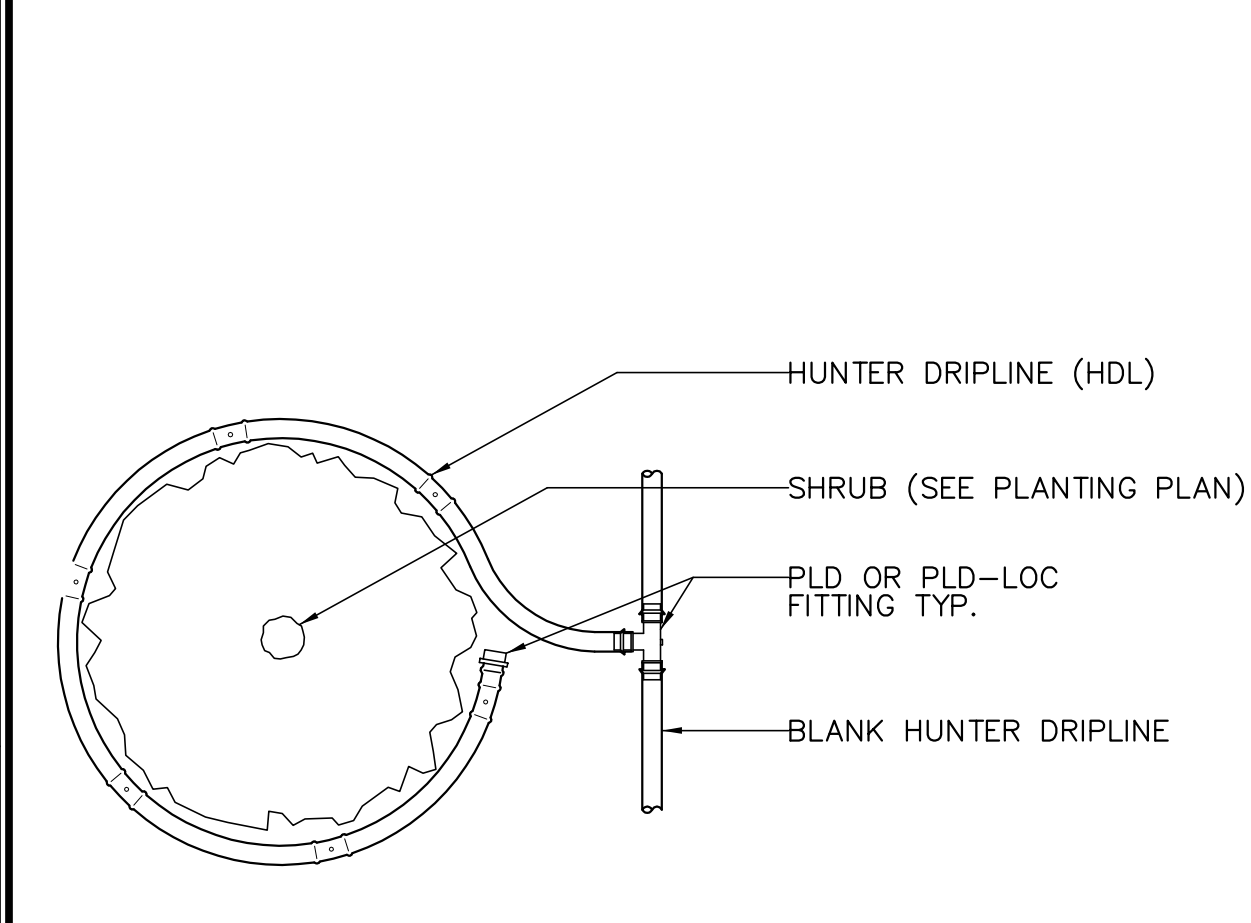
ACC METAL WALL CONTROLLER SCALE: N.T.S.

A DRIP ZONE KIT SCALE: N.T.S.

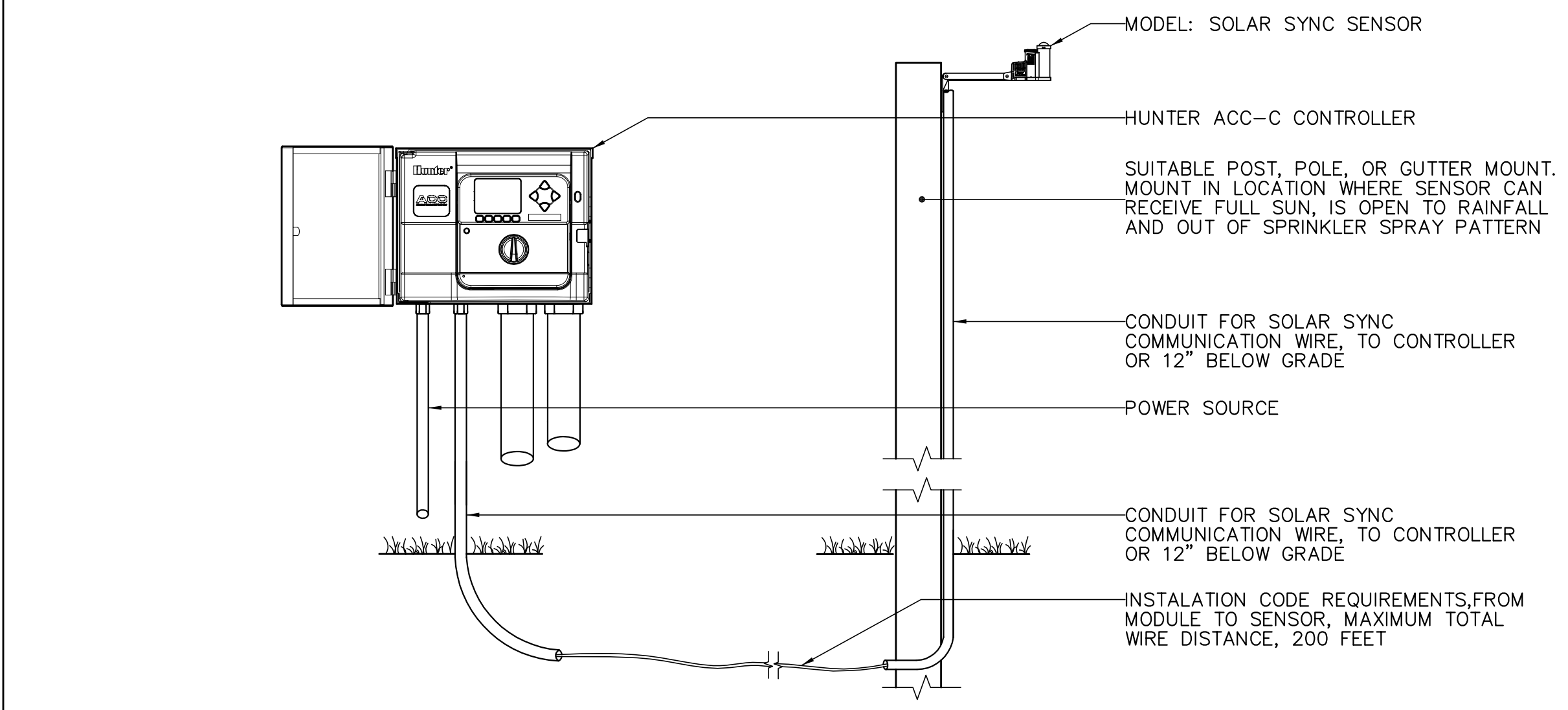
B MULTI- PORT MANIFOLD TO EMITTERS IN VALVE BOX SCALE: N.T.S.

C EMITTER ON STAKE SCALE: N.T.S.

D CONNECTION W/ DRIPLINE-ELBOW SCALE: N.T.S.



NOTE:
ECO-INDICATOR TO BE INSTALLED AT OPTIMAL FURTHEST POINT FROM CONTROL ZONE KIT IN CLEAR VIEW WHEN POPPED UP



F DRIPLINE-SHRUB RING SCALE: N.T.S.

A ECO INDICATOR - SWING JOINT SCALE: N.T.S.

G SOLAR SYNC SYSTEM SCALE: N.T.S.

H

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Project Title
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Sheet Title
IRRIGATION DETAILS - DRIP

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	Date Last Revised	Sheet Number LX3.2