

GENERAL INFORMATION

Table with 2 columns: Code (G000-G102) and Description (COVER SHEET, REGULATORY SITE PLAN, REGULATORY FLOOR PLAN)

CIVIL

SITE DEVELOPMENT

Table with 2 columns: Code (SD/C0.1-SD/C7.1) and Description (CIVIL COVER SHEET, PARTIAL TOPOGRAPHIC SURVEY, etc.)

OFFSITE IMPROVEMENTS

Table with 2 columns: Code (SD/C0.2-SD/C8.1) and Description (OFFSITE COVER SHEET & NOTES, BARDSLEY AVE. OFFSITES, CIVIL DETAILS)

ARCHITECTURAL

SITE DEVELOPMENT

Table with 2 columns: Code (SD/A0.10-SDL1.01) and Description (OVERALL SITE DEMOLITION PLAN, SITE DEMOLITION PLAN & EARTHWORK, etc.)

TYPICAL INFORMATION

Table with 2 columns: Code (X/A101-X/A602) and Description (WALL ASSEMBLIES, INTERIOR & EXTERIOR FINISH SCHEDULE, etc.)

BUILDING P

Table with 2 columns: Code (P/A101-P/A801) and Description (FLOOR PLANS, ALTERNATE BID - BUILDING P2 - SNACK BAR BUILDING, etc.)

STRUCTURAL

TYPICAL INFORMATION

Table with 2 columns: Code (X/S101-X/S107) and Description (TYPICAL PROJECT NOTES, TYPICAL CONCRETE NOTES & DETAILS, etc.)

BUILDING P

Table with 2 columns: Code (P/S201-P/S603) and Description (FOUNDATION PLANS, ALTERNATE BID - BUILDING P2, etc.)

PLUMBING

SITE DEVELOPMENT

Table with 2 columns: Code (SD/P102) and Description (PARTIAL PLUMBING SITE PLAN)

TYPICAL INFORMATION

Table with 2 columns: Code (X/P101-X/P102) and Description (PLUMBING SCHEDULE, LEGENDS, AND NOTES, PLUMBING DETAILS)

BUILDING P

Table with 2 columns: Code (P/P101-P/P301) and Description (PLUMBING PLANS, ENLARGED PLUMBING PLANS, PLUMBING ROOF PLANS)

MECHANICAL

SITE DEVELOPMENT

Table with 2 columns: Code (SD/M102) and Description (PARTIAL MECHANICAL SITE PLAN)

TYPICAL INFORMATION

Table with 2 columns: Code (X/M101-X/M104) and Description (MECHANICAL SCHEDULES, LEGENDS, AND NOTES, MECHANICAL DETAILS, etc.)

BUILDING P

Table with 2 columns: Code (P/M101-P/M301) and Description (MECHANICAL FLOOR PLANS, MECHANICAL ROOF PLANS)

FIRE PROTECTION

TYPICAL INFORMATION

Table with 2 columns: Code (FP001) and Description (PROJECT INFORMATION)

SITE DEVELOPMENT

Table with 2 columns: Code (FP002) and Description (SITE PLAN)

BUILDING P

Table with 2 columns: Code (FP100-FP500) and Description (PIPING PLANS, REFLECTED CEILING PLANS, BLDG. P2 & P3 SECTION VIEWS, etc.)

ELECTRICAL

SITE DEVELOPMENT

Table with 2 columns: Code (SD/E101-SD/E102) and Description (ELECTRICAL OVERALL SITE PLAN, ENLARGED ELECTRICAL SITE PLAN)

TYPICAL INFORMATION

Table with 2 columns: Code (X/E101-X/E306) and Description (ELECTRICAL SYSTEMS - SYMBOLS, NOTES, AND DETAILS, LIGHTING SYSTEMS - FIXTURE SCHEDULE AND DETAILS, etc.)

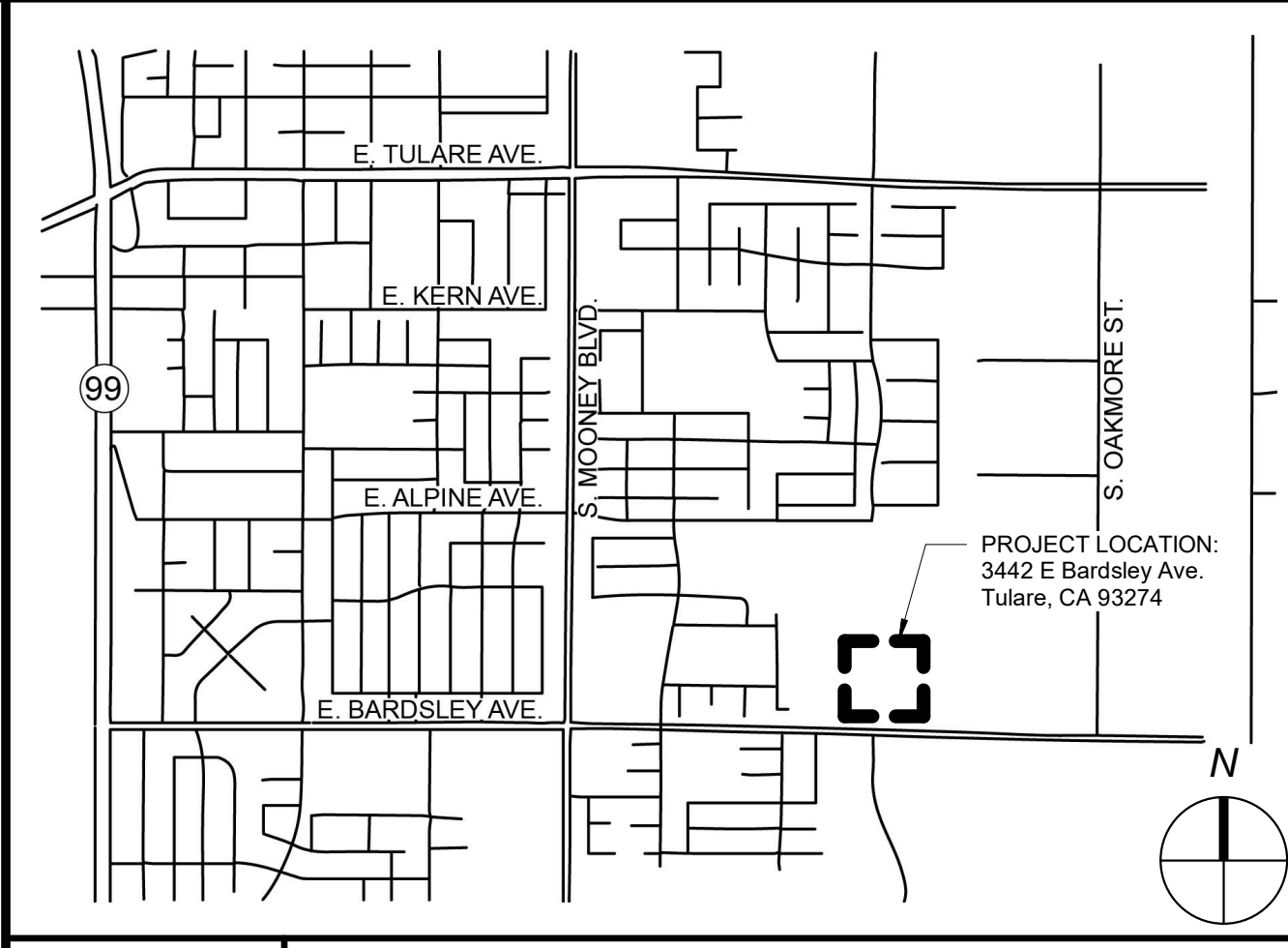
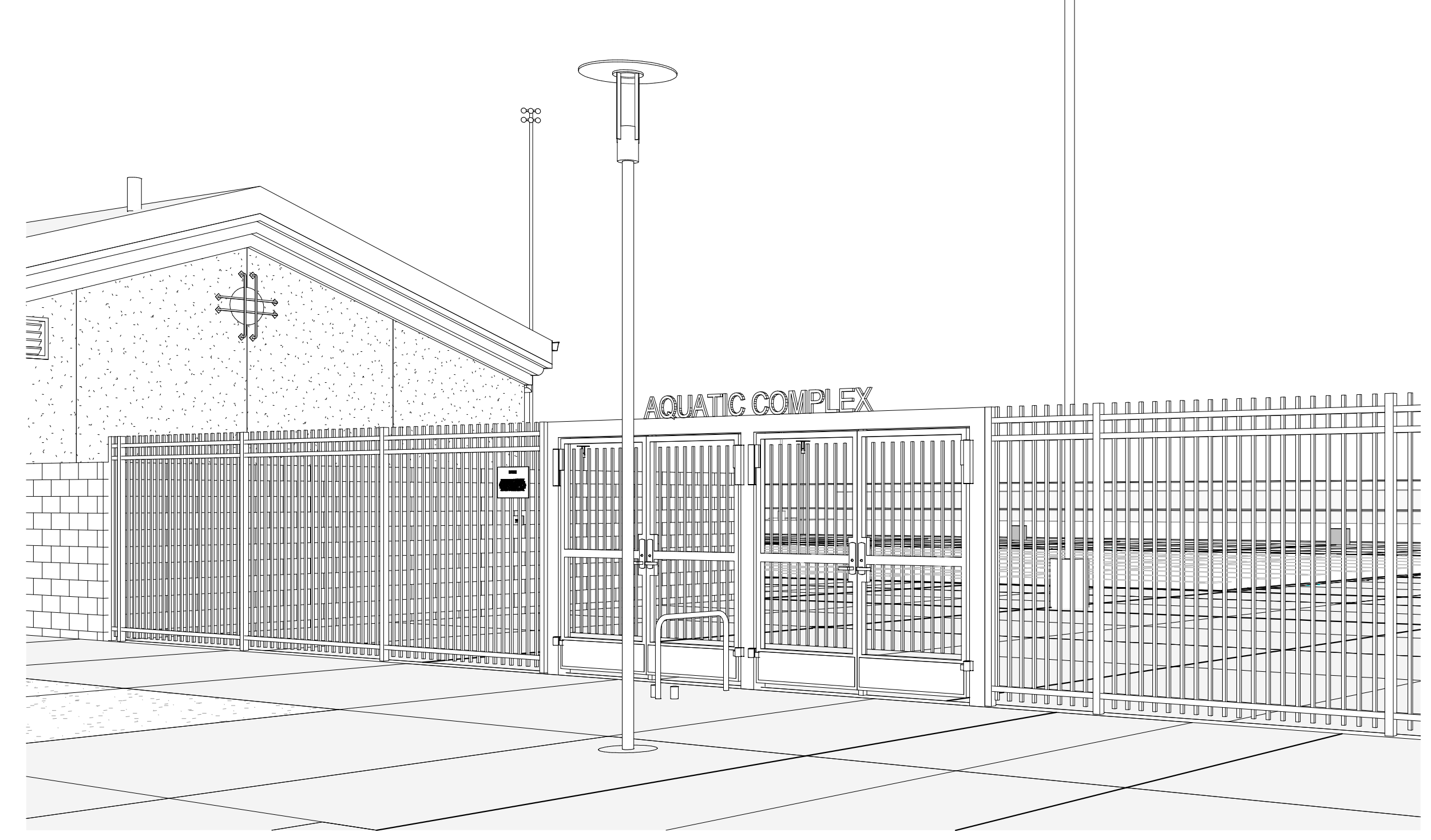
BUILDING P

Table with 2 columns: Code (P/E101-P/E106) and Description (BUILDINGS P2, P3, P4 - LIGHTING PLANS, BUILDINGS P2, P3, P4 - POWER & DATA/COM PLANS, etc.)

AQUATICS

Table with 2 columns: Code (DP-1-CP-14, MR-1-MR-9) and Description (POOL AREA DECK PLAN, LEARNING POOL PLAN, LEARNING POOL SLAB PLAN, etc.)

SHEET COUNT: 168



N14 Vicinity Map

All work shall be performed in accordance with current applicable codes and standards including, but not limited to, the following: California Code of Regulations (CCR) CCR-15: Title 5-Education, CCR-18: Title 8-Industrial Safety, CCR-119: Title 19-Public Safety, CCR-Title 24, Building Codes and Standards: 2022 California Building Standards Administrative Code (Part 1, Title 24, CCR), 2019 California Building Code, Volumes 1 and 2 (Part 2, Title 24, CCR), 2019 California Electrical Code (Part 3, Title 24, CCR), 2019 California Mechanical Code (Part 4, Title 24, CCR), 2019 California Plumbing Code (Part 5, Title 24, CCR), 2019 California Fire Code (Part 6, Title 24, CCR), 2019 California Elevator Safety Construction Code (Part 7, Title 24, CCR), 2019 California Fire Code, Part 9, Title 24, CCR, 2019 California Green Building Standards Code (Part 12, Title 24, CCR), 2019 California Referenced Standards Code (Part 12, Title 24, CCR), NFPA 13, 2016 Edition, The Installation of Automatic Sprinkler Systems, NFPA 14, 2016 Edition, Installation of Standpipe, NFPA 24, 2016 Edition, Installation of Private Fire Service Mains and their Appurtenances, NFPA 72, 2016 Edition, National Fire Alarm Code, Division of the State Architect (DSA): SSS: Structural Safety Section, ACS: Access Compliance Section, FLS: Fire Life Safety, Interpretation of Regulation Manual

J14 Applicable Codes

Notes table with 2 columns: Number (1, 2) and Description (The Contractor Shall be Responsible For The Preparation and Submittal Of The Deferred Approval Items To The Division Of The State Architect (DSA) For Review and Approval Prior To The Installation, etc.)

G14 Deferred Approval

This project consists of two (2) pools, on-site development work, off-site development work and the following three (3) buildings.

- P2 - Electrical and Storage
P3 - Toilet/Shower Rooms
P4 - Pool Mechanical Building and Pool Storage
ADDITIVE ALTERNATE
P2 - Snack Bar and Staff Restroom
OWNER FURNISHED ITEMS:
The District has procured certain items that have been purchased and will be delivered to the site. Refer to Specification Section 016400 - OWNER-FURNISHED ITEMS.
1) Mytha Pool Vessel
2) Sports Lighting - (4) 70ft Poles
3) Scoreboard

The materials will be delivered to the site, FOB. The contractor shall off-load the materials and place them in an area approved by the District. The Contractor shall fence and protect the materials. The Contractor will provide all labor to install these items, unless noted otherwise.

A14 Project Description

DSA File No.: 54-H11
DSA Application No.: 02-120251
Agency Approval

AQUATICS
Aquatic Design Group
1100 N. Tulare St.
Tulare, CA 93274
(800) 938-0542

ELECTRICAL
Hardin-Davidson Engineering
1100 N. Tulare St.
Tulare, CA 93274
(559) 323-4995
F (559) 323-4928

MECHANICAL
Net Positive Consulting Engineers
1100 N. Tulare St.
Tulare, CA 93274
(559) 940-7293

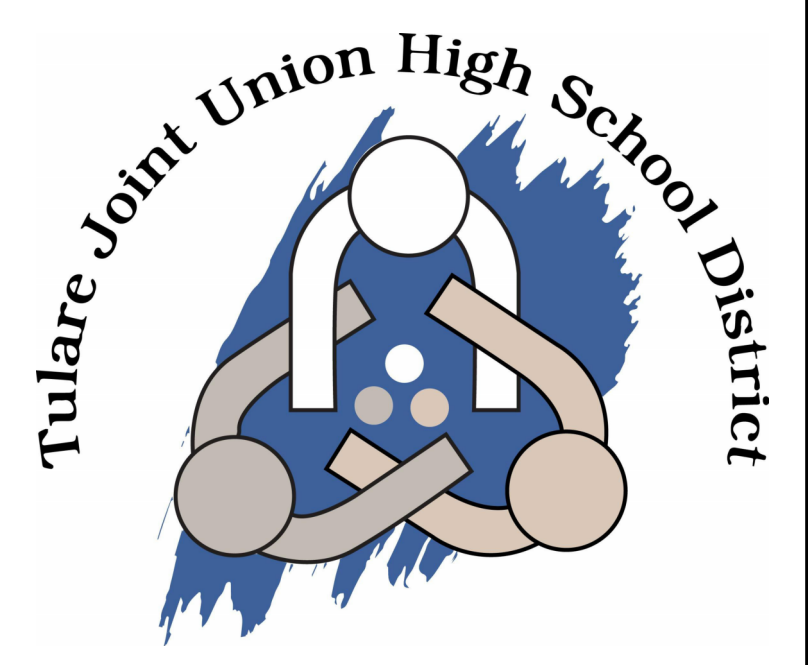
STRUCTURAL
Brooks Ransom Associates
1100 N. Tulare St.
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(559) 449-8444
F (559) 449-8404

CIVIL
Lane Engineers, Inc.
1100 N. Tulare St.
Tulare, CA 93274
(559) 688-5263

ARCHITECTURAL
Darden Architects, Inc.
6790 N. West Avenue
Fresno, CA 93711
T (559) 448-8051
F (559) 448-1785

Mission Oak HS Aquatic Complex
Tulare Joint Union High School District
Tulare, CA 93274

Darden Project Number: 2180
Date: 03/28/2023



Project Information
darden architects ARCHITECTURE PLANNING INTERIORS
www.dardenarchitects.com
6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051
Architect

Table with 3 columns: No., Revision/Submission, Date. Row 1: 1, REVISION_01, 05/31/2023

Revision

Copyright 2022 Darden Architects



CONSTRUCTION SET

APPROVED
BY THE STATE ARCHITECT
APP: 02-120251, INC.
REVIEWED FOR
SS ID: PLS ID: ACS ID
DATE: 08/28/2023

SPORTS LIGHTING

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

DSA File No.:
54-H11

DSA Application No.:
02-120251

Agency Approval

AQUATICS
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Carlsbad, CA 92008
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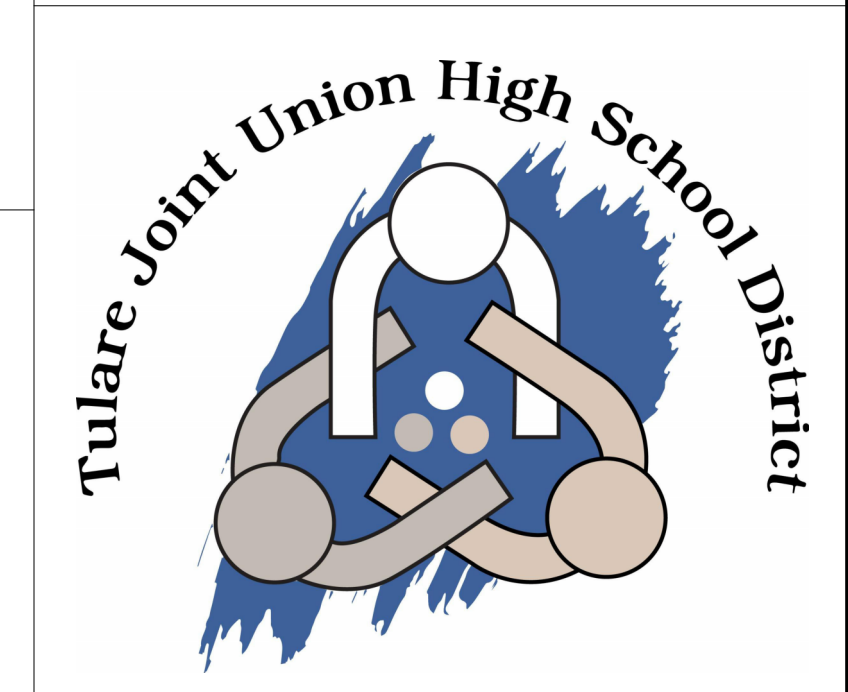
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Mission Oak HS Aquatic Complex

Tulare Joint Union High School District

Tulare, CA 93274

Darden Project Number: 2180
Date: 03/28/2023



Project Information

ARCHITECTURE PLANNING INTERIORS
www.dardenarchitects.com
6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051

ARCHITECT

No.	Revision/Submission	Date
1	REVISION_01	05/31/2023

Revision

ALL WORK SHALL CONFORM TO 2019 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
Substitutions affecting DSA-regulated items shall be considered as construction documents (CCDs) and shall be approved prior to fabrication and installation per DSA IR 4-6 and Section 338(c) Part 1, Title 24, CCR.
A "DSA CERTIFIED" PROJECT INSPECTOR (CLASS 1) EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR).
GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

Statement of General Conformance

FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO, SHOP DRAWINGS PREPARED BY OTHER LICENSED DESIGN PROFESSIONAL AND/OR CONSULTANTS

Application No. 02-119662 File No. 10-H14

The drawings or sheets listed on the cover or index sheet

This drawing, page of specifications/calculations

Have/has been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. It has been examined by me for:

- design intent, and appears to meet the appropriate requirements of Title 24, California Code of Regulations, and the project specification prepared by me, and
- coordination with my plans and specifications, and is acceptable for incorporation into the construction of this project.

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

I find that: All drawings or sheets listed on the cover or index sheet This Drawing or Page

- | | |
|---|--|
| <input checked="" type="checkbox"/> is/are in general conformance with the project design intent, and | <input type="checkbox"/> is/are in general conformance with the project design intent, and |
| <input checked="" type="checkbox"/> has/have been coordinated with the project plans and specifications | <input type="checkbox"/> has/have been coordinated with the project plans and specifications |

Signature	Date	Signature	Date
	08/18/2023		
Architect or Engineer designated to be in general responsible charge		Architect or Engineer delegated responsibility for this portion of the work	
Michael K. Fennacy			
Print Name	04/30/23	Print Name	
C23753			
License Number	Expiration	License Number	Expiration

B14
12" = 1'-0"

Statement of General Conformance

G001

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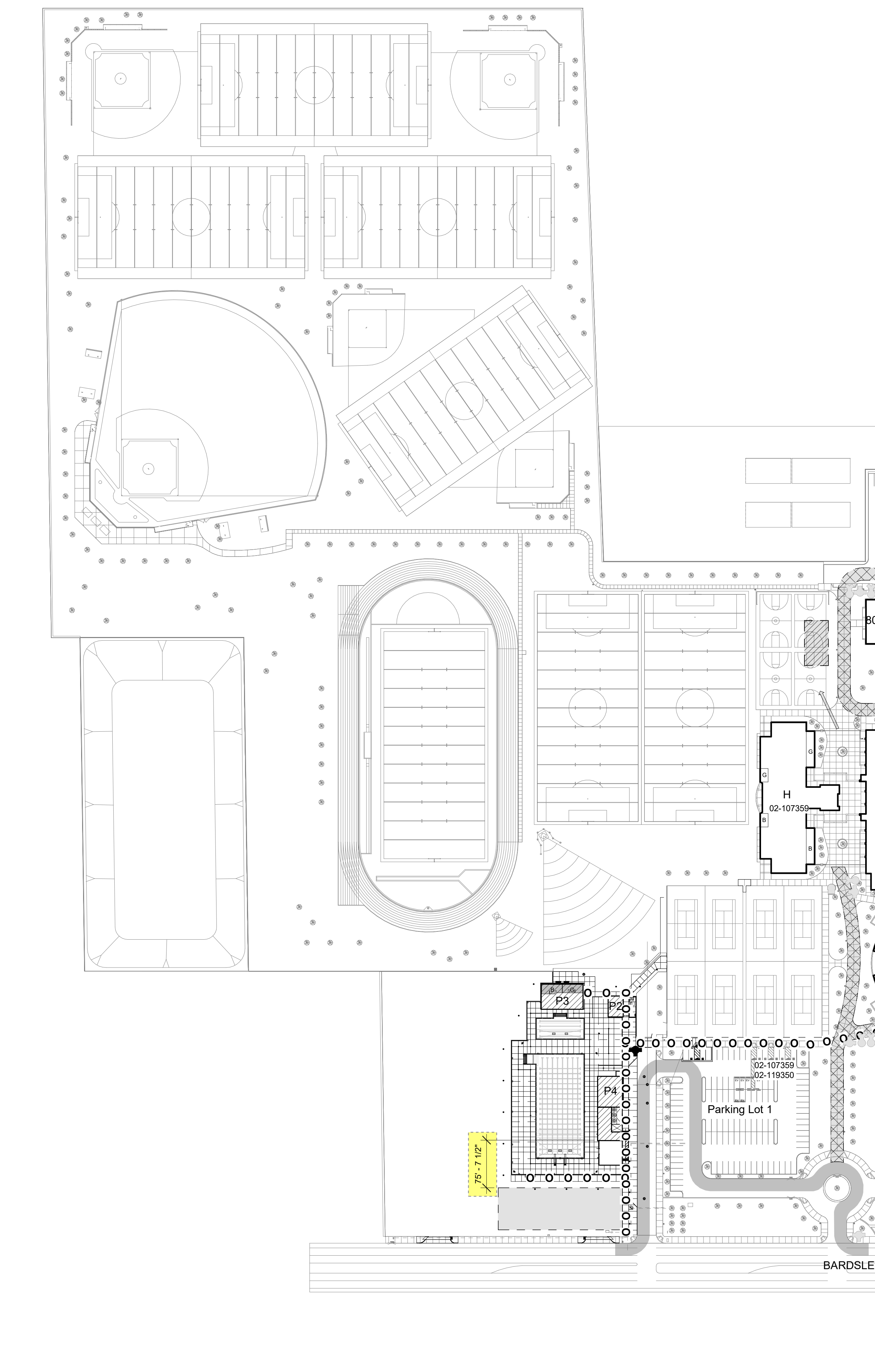
CONSTRUCTION SET

APPROVED BY THE STATE ARCHITECT
APP: 02-120251 INC.
REVIEWED FOR
SS ID: FLS ID: ACS ID
DATE: 08/28/2023

NOTES
Mandatory Measures for Infrastructure: Pathway and pullboxes shall be installed from main service or subpanel, and terminated at an enclosure or pull box. Refer to the electrical drawings. This work is in Contract.
No charging equipment, surface ID markings (EV CHARGING ONLY) and signage for the EVCS spaces will be installed. Until such time as the EVCS spaces are constructed for use. When installed the operable parts on all new and altered EV chargers shall comply with the requirements of CBC 11B-309.4. This work is indicated as Future (F).
ABBREVIATIONS
EV-A Ambulatory
EV-S Standard Accessible
EV-V Van Accessible
EV Electric Vehicle Charging Station
(F) Future

Parking Lot	Accessible Parking Spaces CBC Table 11B-208.2				Electric Charging Spaces Table 11B-228.3.2.1			
	Total Spaces	Required Accessible	Van Accessible	Standard Accessible	Total EV	EV-V	EV-S	V-A
Lot 1	122	6	1	5	6	6	1	1
Lot 2	77	4	1	3	0	0	0	0
Lot 3	10	1	1	1	0	0	0	0
Lot 4	310	13	2	11	0	0	0	0
Lot 5	13	1	1	1	0	0	0	0

P1 Parking Lot Table
3/32" = 1'-0"



BLDG NO.	BUILDING PER ASSUMED PROPERTY LINE	OCCUPANCY GROUP	CONSTRUCTION TYPE	FIRE SPRINKLER SYSTEM	BASIC ALLOWABLE AREA	ALLOWABLE AREA INCREASE	INCREASED ALLOWABLE AREA	ACTUAL BUILDING & FIRE AREA SYSTEM	FIRE FLOW AND DURATION	DSA APPLICATION NUMBER	DSA APPROVAL DATES	APPLICABLE BUILDING CODE	REMARKS	
A	Administration	B, E - 1	Type V-N	None	-	-	-	-	-	02-107359	2006	-	-	
B	Media Center	E - 1	Type V-N	None	-	-	-	-	-	02-107359	2006	-	-	
C	Classroom	E - 1	Type II (1Hr)	None	-	-	-	-	-	02-107359	2006	-	-	
D	Classroom	E - 1	Type V-N	None	-	-	-	-	-	02-107359	2006	-	-	
G	Gym/Wrestling	A-2.1	Type II (1Hr)	None	-	-	-	-	-	02-107359	2006	-	-	
H	Locker/Shower	E - 1	Type V-N	None	-	-	-	-	-	02-107359	2006	-	-	
I	Music/Business	E - 1	Type V-N	None	-	-	-	-	-	02-107359	2006	-	-	
L	Multi-Purpose	A-3	Type II (1Hr)	None	-	-	-	-	-	02-107359	2006	-	-	
800	Classroom	E - 1	Type V-B	Fully Sprinkled	-	-	-	-	-	02-110051	2013	-	-	
600	Classroom	E - 1	Type V-B	Fully Sprinkled	-	-	-	-	-	02-112950	2006	-	-	
P2	Electrical/Storage	S-2	Type V-B	Fully Automatic (Area Increase)	36,000 SF	-	36,000 SF	409 SF	1,500 GPM @ 20 PSI 2 HR. Duration	02-120251	-	2019 Ca. Building Code CCR Title 24	F.S. System Reduction of 75% 2,750 x .75 = 2,062.5 2,750 - 2,062.5 = 17,875.5 = 1,500 GPM	
P3	Restroom/Shower	E, B	Type V-B	Fully Automatic (Area Increase)	36,000 SF	-	36,000 SF	1,618 SF	1,500 GPM @ 20 PSI 2 HR. Duration	02-120251	-	2019 Ca. Building Code CCR Title 24	F.S. System Reduction of 75% 2,750 x .75 = 2,062.5 2,750 - 2,062.5 = 17,875.5 = 1,500 GPM	
P4	Pool Equipment/Storage	S-2	Type V-B	Fully Automatic (Area Increase)	36,000 SF	-	36,000 SF	1,635 SF	1,500 GPM @ 20 PSI 2 HR. Duration	02-120251	-	2019 Ca. Building Code CCR Title 24	F.S. System Reduction of 75% 2,750 x .75 = 2,062.5 2,750 - 2,062.5 = 17,875.5 = 1,500 GPM	
*P2 - P4 Combined - does not meet required separation Actual Area is Less Than Basic Allowable Area - OK							36,000 SF	> 3,662 SF Total OK						
P2	Add Alternate Snack Bar	S-2	Type V-B	Fully Automatic (Area Increase)	36,000 SF	-	36,000 SF	1,063 SF	1,500 GPM @ 20 PSI 2 HR. Duration	02-120251	-	2019 Ca. Building Code CCR Title 24	F.S. System Reduction of 75% 2,750 x .75 = 2,062.5 2,750 - 2,062.5 = 17,875.5 = 1,500 GPM	
Building Accessory Combined							36,000 SF	> 4,316 SF Total OK						

L8 Building Data Table
1/4" = 1'-0"

DSA File No.: 54-H11
DSA Application No.: 02-120251
Agency Approval

SYMBOLS

- 1 Hr Fire Barrier
- - - - Assumed Property Line
- - - - Building Overhang
- X - X - X - Chain Link Fence
- ○ ○ ○ Accessible Path of Travel
- █ Fire Truck Access Lane
- █ Existing Fire Truck Access Lane
- █ Aquatic Complex Safe Dispersal Area
3,183 Occupants x 5 SF per Occupant = 15,915 SF
- █ Main Campus Safe Dispersal Area
1,613 Enrolled Occupants x 5 SF per Occupant = 8,065 SF
- FH Fire Hydrant (FH)
- FDC Fire Department Connection (FDC/Slamse)
- PIV Post Indicator Valve (PIV)
- Accessible Restroom:
B = Boys
G = Girls
M = Men
W = Women
U = Unisex
S = Staff
- Existing Building not included in this project
- █ New Addition and Existing Building included in this project

ABBREVIATIONS

DF ACCESSIBLE DRINKING FOUNTAIN LOCATION
(HA = High Adult)
(LA = Low Adult)

NOTES

- Site Gates, Site Ramps, and Site Stair locations in the "Path of Travel" are indicated on Drawing REGULATORY COMPLIANCE SITE PLAN and FLOOR PLAN.
- The Path of Travel slopes shall not exceed a running slope of 1:20 (5%). The Path of Travel slopes shall not exceed a cross slope of 1:50 (2%). The Path of Travel shall not have overhead obstructions within 80" above the walking surface or obstructions protruding more than 4" and 80" and 80" above the walking surface.
- The "Path of Travel" as shown on the REGULATORY COMPLIANCE SITE PLAN, shall not have any unprotected vertical drop exceeding 4 inches at the time of the preparation of the contract documents and DSA approval. Contractor shall verify and bring any non-complying items to the attention of the Architect.
- All new concrete surface within the "Path of Travel" shall have a non-slip medium broom finish as called for in Specification Section CAST-IN-PLACE CONCRETE. A heavy broom finish shall be used on all slopes greater than 6%.

DSA 810
FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

Division of the State Architect (DSA) documents referenced within this publication are available on the DSA Forms or DSA Publications webpages.
To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new buildings, additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply information associated with compliance items 1 through 3 below to be provided for all project types indicated above. Information associated with items 4 through 7a to be completed when an alternate means is utilized. Acknowledgment by the school district and signature from the Local Fire Authority (LFA) is only required when an alternate design means is being requested.
The Project Information and Fire & Life Safety Information sections are to be completed for all projects and imaged onto the fire access site plan. When an alternate design/means is proposed, all sections on pages 1 and 2 are to be completed and imaged on the fire access site plan.
For additional information refer to the instructions at the end of this form and DSA Policy PL 09-01, Fire Flow for Buildings.

PROJECT INFORMATION

School District/Owner: Tulare Joint Union High School District
Project Name/School: Mission Oak HS Aquatic Complex
Project Address: 3442 E Bardsley Ave, Tulare, CA 93274

FIRE & LIFE SAFETY INFORMATION

1. Has a fire hydrant flow test been performed within the past 12 months? Yes No
(If yes, provide a copy of the test data.)

2. Was the fire hydrant water flow test performed as part of this LFA review? Yes No

3. Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal Fire? (If yes, indicate FHSZ classification below.) Yes No

Refer to the following website for FHSZ locations: <https://www.cal-fire.com/>
Moderate High Very High

Wildland Interface Area (WIFA) (If any designations are checked, project design must meet the requirements of CBC Chapter 7A.) WIFA

DSG DSA 810 (revised 12/29/20) DEPARTMENT OF GENERAL SERVICES Page 1 of 4
DIVISION OF THE STATE ARCHITECT STATE OF CALIFORNIA

DSA 810
FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

CONDITION MEANS AND METHODS RESOLUTION	ALTERNATE ACCEPTED		
	Yes	No	NA/ N/A
4. Emergency vehicle access roadways do not meet CFC requirements.			<input checked="" type="checkbox"/>
4a. Acceptable Alternate: Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.			<input checked="" type="checkbox"/>
5. Fire Hydrants: Number and spacing does not meet CFC requirements.			<input checked="" type="checkbox"/>
5a. Acceptable Alternate: Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property.			<input checked="" type="checkbox"/>
6. Fire Hydrants: Water flow and pressure are less than CFC minimum.			<input checked="" type="checkbox"/>
6a. Acceptable Alternate: The available flow and pressure is acceptable for providing fire suppression and protection of life and property.			<input checked="" type="checkbox"/>
7. Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements.			<input checked="" type="checkbox"/>
7a. Acceptable Alternate: The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.			<input checked="" type="checkbox"/>

School District Acceptance of Acceptable Design Alternates
By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements, as indicated by one or more of the conditions indicated at items 4a, 5a, 6a or 7a, for providing fire and life safety protection of life and property.
Accepted by: Vivian Hamilton Title: Chief Business Officer
Signature: *Vivian Hamilton* Date: 3/13/2023

LOCAL FIRE AUTHORITY (LFA) INFORMATION
LFA Agency Name: City of Tulare Fire
LFA Review Official: Ryan Leonardo
Title: Fire Marshal Work Phone: (559) 684-4365
Work Email: rleonardo@tulare.ca.gov
LFA Reviewer's Signature: *Ryan Leonardo* Date: 01/11/23

DSG DSA 810 (revised 12/29/20) DEPARTMENT OF GENERAL SERVICES Page 2 of 4
DIVISION OF THE STATE ARCHITECT STATE OF CALIFORNIA

G18 Regulatory Compliance Site Plan Legend

Mission Oak HS Aquatic Complex
Tulare Joint Union High School District
Tulare, CA 93274 Project

GENERAL INFORMATION
REGULATORY SITE PLAN
Drawing

ARCHITECTURE
PLANNING
INTERIORS
architects www.dardenarchitects.com
6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051
Architect

No.	Revision/Submission	Date
1	REVISION_01	05/31/2023

Revision

Designed By: MF Copyright 2022 Darden Architects
Scale: As indicated Drawn By: FM
Project Number: 2180 Checked By: -
Date: 03/28/2023 Reviewed By: MF

G101

8/18/2023 4:26:36 PM
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SYMBOL LEGEND table with symbols for Fire Hydrant, Water Valve, Existing Light Pole, Sign, Chain Link Fence, Flow Arrow, Manhole, Guy Wire, Proposed Elevation, Existing Elevation.

BENCHMARK table with columns for Benchmarks and Vertical Datum Note. Includes City Benchmark No. 48 and Vertical Datum Note 1 & 2.

CONSTRUCTION STAKING LIABILITY WAIVER text block stating that the firm of Lane Engineers, Inc. has prepared the plans and the contractor shall be responsible for the construction staking work.

Agency Approval table with columns for Agency Name, Date, and Signature.

Identification Stamp, DSA File No. 54-H11, DSA Application No. 02-120251, and various professional seals.

SYMBOL LEGEND table with symbols for Fire Hydrant, Water Valve, Existing Light Pole, Sign, Chain Link Fence, Flow Arrow, Manhole, Guy Wire, Proposed Elevation, Existing Elevation.

BENCHMARK table with columns for Benchmarks and Vertical Datum Note. Includes City Benchmark No. 48 and Vertical Datum Note 1 & 2.

CONSTRUCTION STAKING table with columns for Standard General Notes and Construction Staking. Includes notes on contractor responsibilities and staking procedures.

STANDARD GENERAL NOTES table with numbered notes 1 through 20 detailing construction requirements and safety protocols.

CONSTRUCTION STAKING table with columns for Standard General Notes and Construction Staking. Includes notes on contractor responsibilities and staking procedures.

NOTES table with columns for Notes and Date.

CONSTRUCTION STAKING table with columns for Standard General Notes and Construction Staking. Includes notes on contractor responsibilities and staking procedures.

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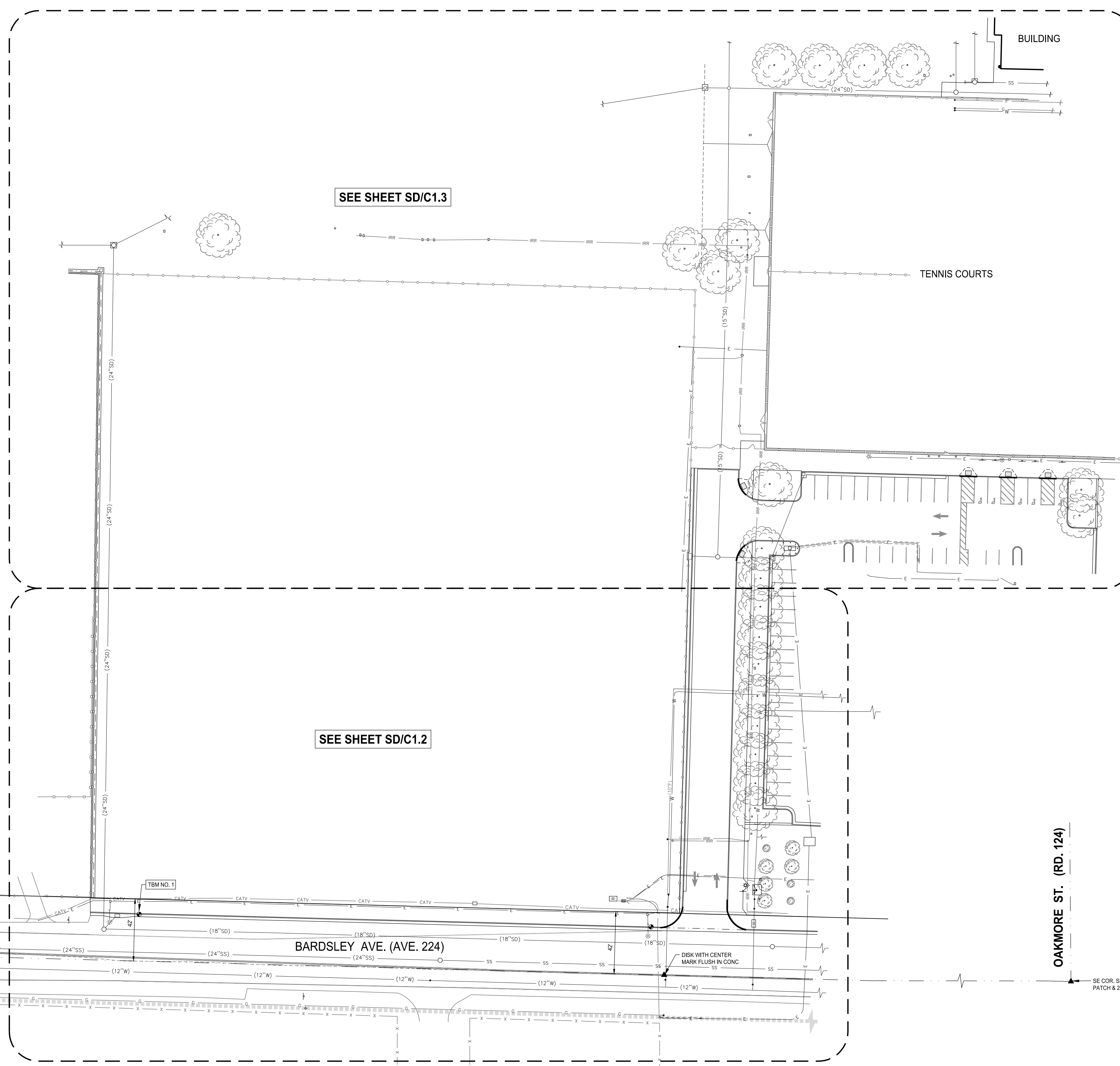
DSA File No.: 54-H11

DSA Application No.: 02-120251

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APP: 02-120251 INC.
REVIEWED FOR:
SS FLS ACS
DATE: 01/31/2023

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BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS SURVEY IS THE CALIFORNIA COORDINATE SYSTEM, ZONE 4, NAD 83, AS DETERMINED BY GPS OBSERVATIONS RELATIVE TO THE CALIFORNIA SURVEYING AND DRAFTING, INC. VIRTUAL SURVEY NETWORK, EPOCH DATE 2011.

LEGAL DESCRIPTION:

SITUATED IN A PORTION OF THE SE1/4 OF SECTION 7, TOWNSHIP 20 SOUTH, RANGE 26 EAST, MOUNT Diablo BASE AND MERIDIAN, IN THE CITY OF TULARE, COUNTY OF TULARE, STATE OF CALIFORNIA, APN 172-040-080 AND 172-040-081

BOUNDARY NOTE:

RIGHT OF WAY LINES SHOWN ARE BASED ON RECORD DATA AND FOUND MONUMENTS.

BENCHMARKS:

CITY BENCHMARK NO. 48 - BRASS CAP IN TOP OF HEADWALL AT THE NORTHWEST CORNER OF MOONEY BLVD. & BARDSELEY AVE. IN CENTERLINE OF HEADWALL.

ELEV. + 289.048 (CITY AND NGVD 1929).

TBM NO. 1: CHISELED PLUS IN TOP OF CURB ON THE NORTH SIDE OF BARDSELEY AVE., 19' EAST OF CATCH BASIN, SOUTHWEST CORNER OF SITE.

ELEV. + 290.16 (CITY AND NGVD 1929).

TBM NO. 2: CHISELED PLUS IN TOP OF CURB NORTH SIDE OF BARDSELEY AVE., 19' WEST OF THE WEST RETURN AT PARKING LOT ENTRANCE, SOUTHEAST CORNER OF SITE.

ELEV. + 290.78 (CITY AND NGVD 1929).

VERTICAL DATUM NOTE:

1. ADD 200.00 FEET TO ELEVATIONS SHOWN ON PLAN TO OBTAIN DATUM BASED ON CITY AND NATIONAL GEODETIC VERTICAL DATUM 1929 (NVD 1929).

2. ADD 202.70 FEET TO ELEVATIONS SHOWN ON PLAN TO OBTAIN DATUM BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988).

FLOOD HAZARD ZONE X (UNSHADED)

AS DELINEATED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S FLOOD INSURANCE RATE MAP (MAP NUMBER 05107C1275E) FOR COMMUNITY NO. 06506, CITY OF TULARE, TULARE COUNTY, CALIFORNIA, EFFECTIVE JUNE 16, 2009, THE PROPERTY SHOWN ON THIS MAP LIES FULLY WITHIN FLOOD ZONE AREA DESIGNATED ZONE X (UNSHADED), WHICH ARE AREAS OUTSIDE OF 0.2% ANNUAL CHANCE FLOODING.

DATE OF SURVEY NOTE:

FIELD WORK FOR THIS TOPOGRAPHIC SURVEY WAS COMPLETED ON MARCH 03, 2022.

UNDERGROUND UTILITY NOTE:

THE EXISTING UNDERGROUND UTILITY LINES SHOWN ARE BASED ON THE LOCATION OF VISIBLE SURFACE IMPROVEMENTS, CITY OR COUNTY RECORD DRAWINGS, PAINT MARKINGS PLACED BY MDR LOCATING SPECIALISTS AND UTILITY COMPANY RECORD DRAWINGS. IN SOME CASES IT HAS NOT BEEN POSSIBLE TO OBTAIN PRESENT INFORMATION FROM THESE COMPANIES, ALTHOUGH EVERY EFFORT HAS BEEN MADE TO ACCURATELY SHOW THE UNDERGROUND UTILITY LINES, IT WILL BE NECESSARY TO CONFIRM THE LOCATIONS BY NOTIFYING UNDERGROUND SERVICE ALERT.

TELEPHONE U.S.A. AT 811 PRIOR TO DIGGING. THE DEPTHS OF ALL LINES MUST BE DETERMINED BY CAREFULLY PROBING OR POT-HOLING UNDER UTILITY COMPANY SUPERVISION.

DRY UTILITY INFORMATION WAS REQUESTED FROM SOUTHERN CALIFORNIA EDISON COMPANY, AT&T AND THE GAS COMPANY ON MARCH 11, 2022.

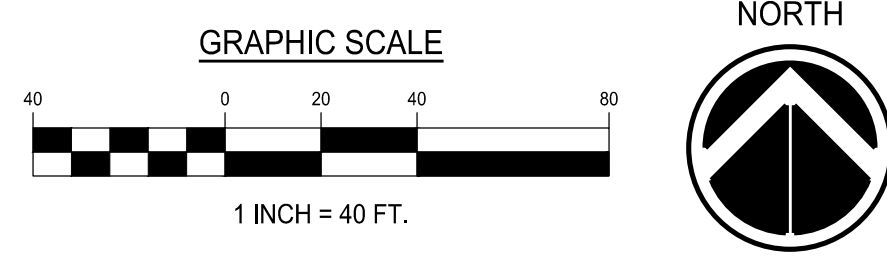
SOUTHERN CALIFORNIA EDISON COMPANY RECORD DRAWINGS WERE RECEIVED ON APRIL 20, 2022.

AT&T RECORD DRAWINGS WERE NOT RECEIVED AS OF MAY 6, 2022.

THE GAS COMPANY RECORD DRAWINGS WERE RECEIVED ON APRIL 04, 2022.

CITY UTILITY INFORMATION WAS DOWNLOADED FROM THE CITY'S WEBSITE ON APRIL 4, 2022.

NOTE: INFORMATION SHOWN IN BRACKETED [] WAS OBTAINED FROM BLAIR, CHURCH & FLYNN CONSULTING ENGINEERS IMPROVEMENT DRAWINGS.



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Consultant

Mission Oak HS Aquatic Complex
Tulare Joint Union High School District
Tulare, CA

Project

SITE DEVELOPMENT
PARTIAL TOPOGRAPHIC SURVEY

Drawing

ARCHITECTURE
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	Checked By: AO	
	Reviewed By: AO	Sheet: 1 of 1

LEGEND

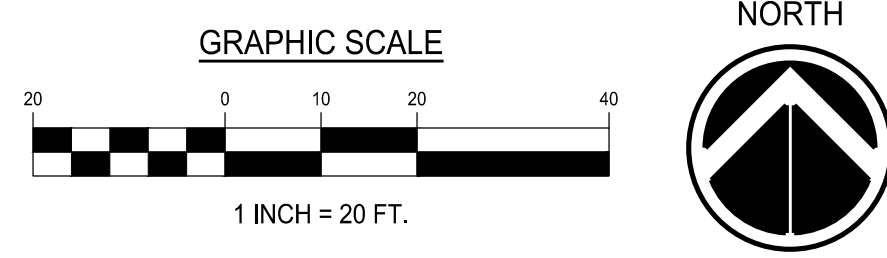
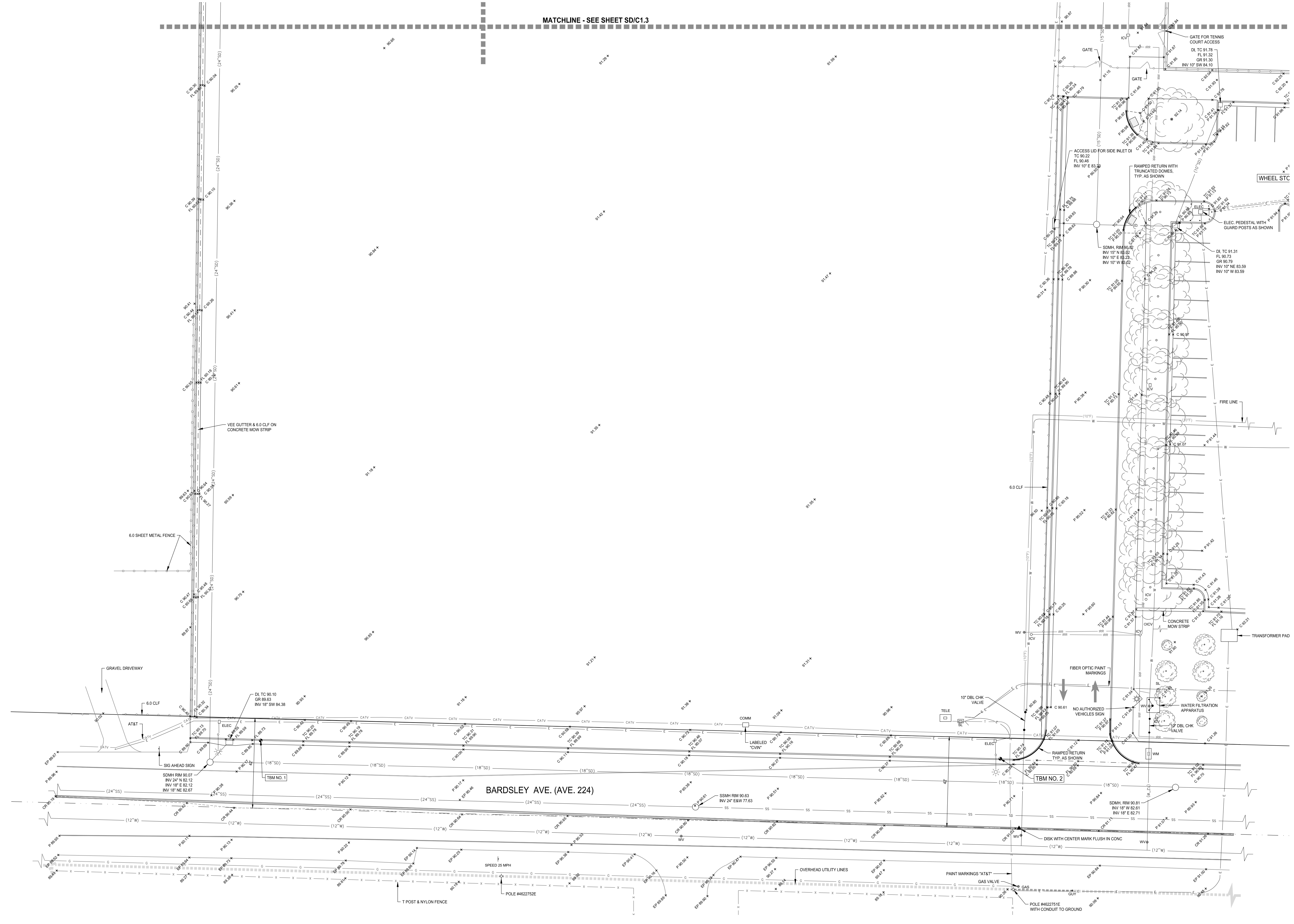
ORIGINAL GROUND ELEVATION (UNLESS NOTED OTHERWISE)	WET UTILITIES
APX FF CONCRETE ELEVATION MEASURED ADJACENT TO LOCKED DOOR	DI DRAIN INLET
C TOP OF CONCRETE	ICV IRRIGATION CONTROL VALVE
CLF CHAIN LINK FENCE	WM WATER METER
CR CROWN	WV WATER VALVE
DI DRAIN INLET	MH MANHOLE
EP EDGE OF PAVEMENT	DRY UTILITIES
FL FLOW LINE	EB ELECTRICAL BOX
GR TOP OF GRATE	GV GAS VALVE
P TOP OF PAVEMENT	GA GAS ANCHOR
TOE TOE OF SLOPE	SC SIGNAL (COMMUNICATIONS BOX)
TC TOP OF CURB	SL STREET LIGHT BOX
SIGNS	TELEPHONE BOX
SN SIGN AS NOTED	UTILITY POLE
HC HANDICAP SIGN	UTILITY LINETYPES
SL SPEED LIMIT SIGN	— CITY
GENERAL SYMBOLS	— ELECTRICAL
(I) INDICATES NUMBER OF SIMILAR OBJECTS AS SHOWN	— FIRE LINE
▲ MONUMENT FOUND AS DESCRIBED	— FIBER OPTIC
□ TEMPORARY BENCH MARK	— GAS
— GUARD POST TO SCALE	— IRRIGATION LINE
☀ STREET LIGHT	— STORM DRAIN
▲ AREA LIGHT ON CONCRETE PIER	— SANITARY SEWER
☀ DECIDUOUS TREE TRUNK AND CANOPY DRAWN TO SCALE	— TELEPHONE
	— WATER

DSA File No.: 54-H11

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APP: 02-120251 INC.
REVIEWED FOR:
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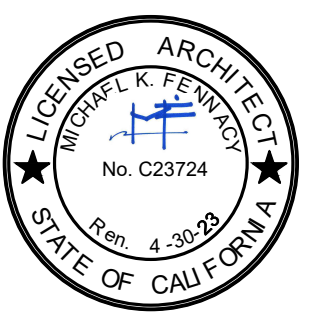
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Tulare Joint Union High School District
Tulare, CA

Project

SITE DEVELOPMENT
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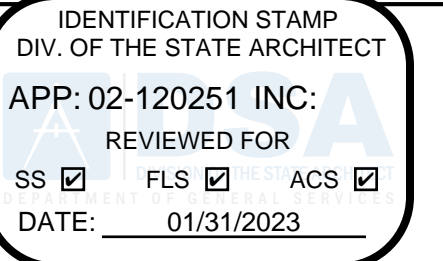
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Revision		

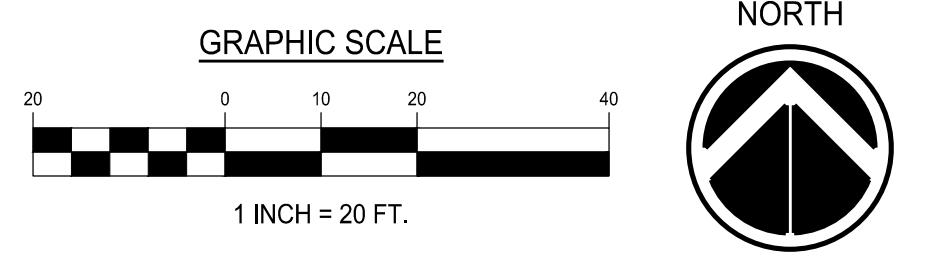
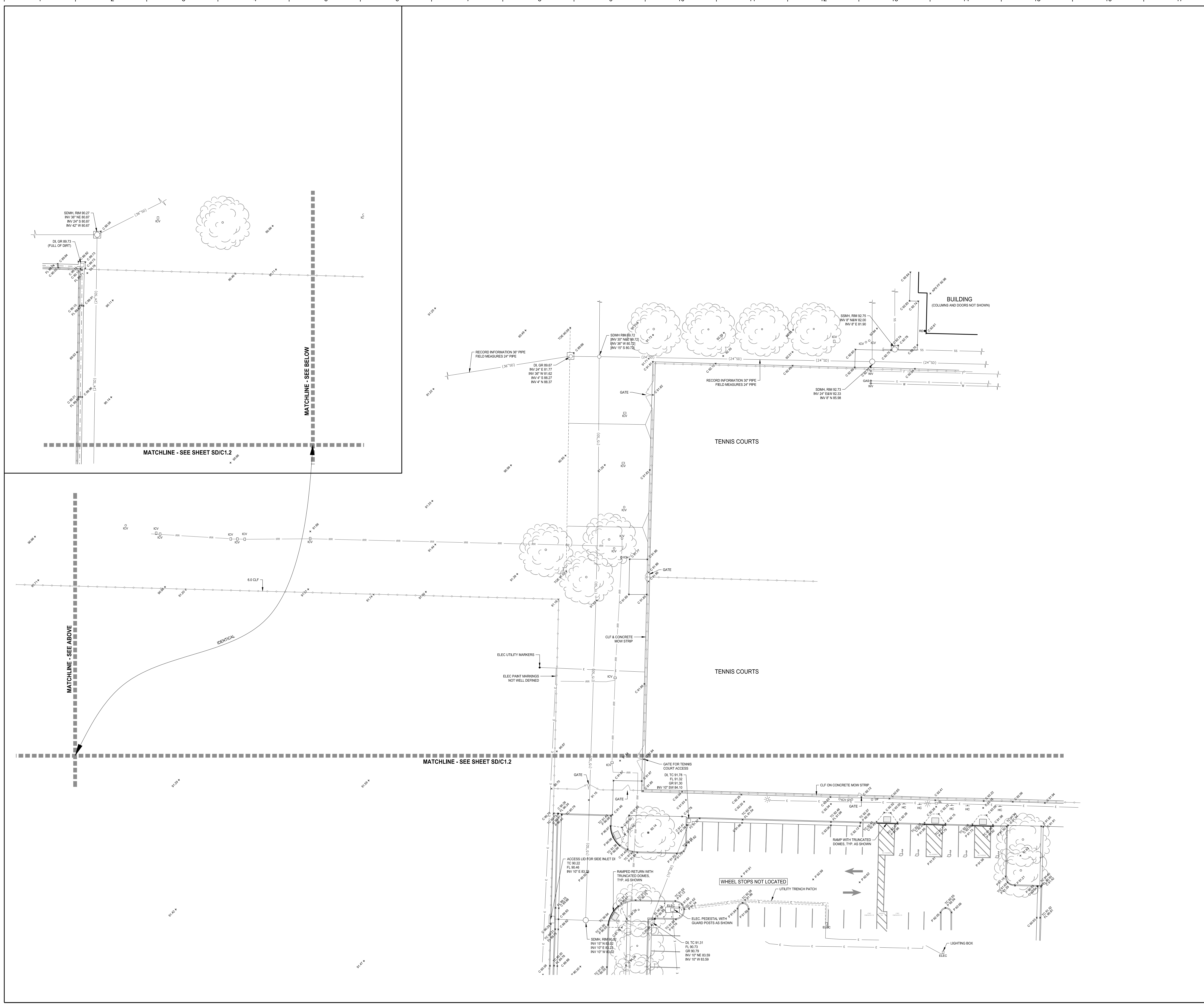
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Date: 08-02-22	Checked By: AO	
	Reviewed By: AO	Sheet: 1 of 1

DSA File No.: 54-H11

DSA Application No.: 02-120251



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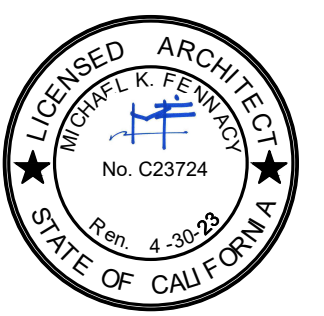


Consultant

Mission Oak HS Aquatic Complex Tulare Joint Union High School District Tulare, CA Project

SITE DEVELOPMENT PARTIAL TOPOGRAPHIC SURVEY Drawing

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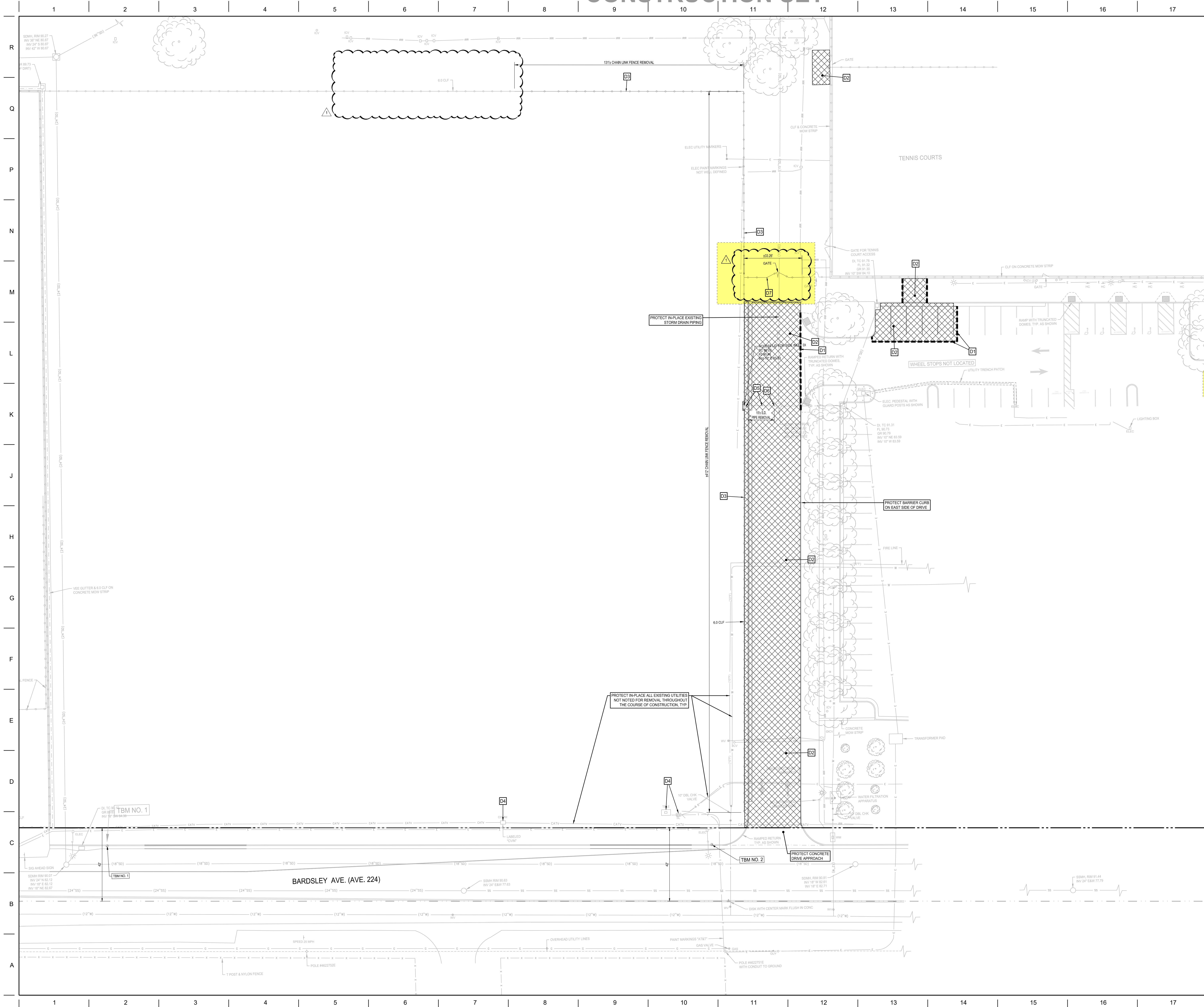
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Table with 3 columns: No., Revision/Submission, Date. Includes a 'Revision' section for tracking changes.

Table with 4 columns: Scale (1" = 20'), Project Number (2180), Date (08-02-22), and Designer/Checker/Reviewer information (Designed By: WV, Drawn By: WV, Checked By: AO, Reviewed By: AO). Includes a 'Copyright 2022 Darden Architects' notice and sheet number 'SD/C1.3'.

CONSTRUCTION SET

APPROVED BY THE STATE ARCHITECT
 APP: 02-120251, INC.
 REVIEWED FOR PLS ID: ACS ID
 DATE: 08/28/2023



DSA File No.: 54-H11
 DSA Application No.: 02-120251
 Agency Approval

DEMOLITION NOTES (THIS SHEET ONLY)

- REFER TO SHEET SD/C0.1 FOR BENCHMARKS, GENERAL NOTES AND INFORMATION.
- EXISTING IMPROVEMENTS ON THE TOPOGRAPHIC SURVEY ARE SHOWN FADED ON THIS DRAWING.
- ALL INFRASTRUCTURE NOT NOTED FOR SALVAGE, REMOVAL, OR RELOCATION SHALL BE PROTECTED IN PLACE.
- ALL ITEMS NOTED TO BE SALVAGED SHALL BE REMOVED WITHOUT DAMAGING AND STORED ON THE OWNER'S PROPERTY IN A LOCATION DESIGNATED BY THE OWNER UNTIL THEY ARE RE-INSTALLED AS SHOWN ON THE PLANS.
- ALL HOLES AND TRENCHES CREATED FROM INFRASTRUCTURE REMOVAL SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE REQUIREMENTS NOTED ON THESE PLANS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL ITEMS NOTED FOR REMOVAL WITH THE OWNER AND THE CITY. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY DIMENSIONS FOR DEMOLITION SHOWN ON THIS PLAN WITH THE PROPERTY OWNER AND THE CITY.
- ANY EXISTING SURFACE STRUCTURES OR IMPROVEMENTS (E.G. UTILITY BOXES, TRASH BINS, BENCHES, SIGNS, STREET LIGHTS, ETC.) THAT ARE DAMAGED OR TEMPORARILY REMOVED DURING DEMOLITION SHALL BE REPLACED IN KIND U.N.O.
- ANY EXISTING REGULATORY OR WARNING SIGNS REMOVED FOR CONSTRUCTION SHALL BE REPLACED WITH TEMPORARY SIGNS AS NECESSARY TO SAFELY DIRECT TRAFFIC UNTIL THE NEW PERMANENT SIGNS ARE INSTALLED IN THEIR PERMANENT LOCATIONS PER THESE OR ACCOMPANYING PLANS.

DEMOLITION KEYNOTES (THIS SHEET ONLY)

D1 SAWCUT PAVEMENT OR CONCRETE TO A CLEAN, VERTICAL EDGE
 INDICATED THIS: [Symbol]

D2 REMOVE CURB & GUTTER, CONCRETE/ASPHALT PAVEMENT, AND/OR SIDEWALK, PAVEMENT STRIPING AND TRUNCATED DOMES.
 INDICATED THIS: [Symbol]

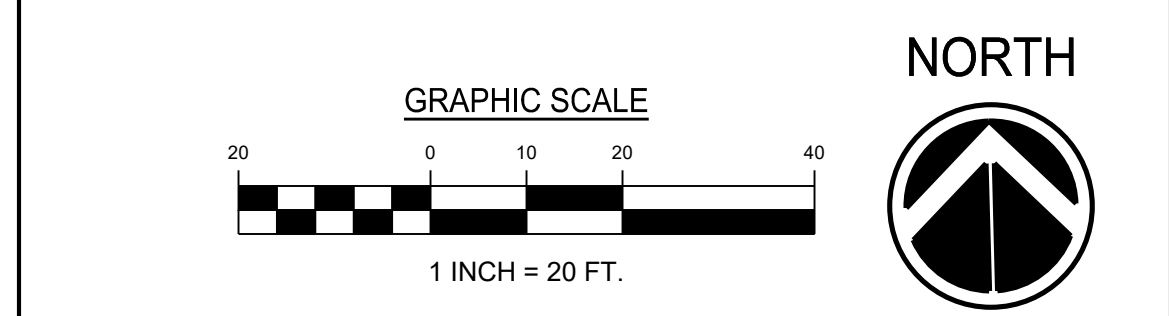
D3 REMOVE CHAIN LINK FENCE, GATES, FENCE POSTS, FOOTINGS AND CONC. MOW STRIP AS REQ'D. BACKFILL EXCAVATION FROM FOOTINGS PER DETAIL 11 SHEET SD/C7.1.

D4 UTILITY BOX - PROTECT IN PLACE. ADJUST TO FINISH GRADE - SEE GRADING PLAN FOR ADD'L. INFO.

D5 REMOVE DRAIN INLET & STORM DRAIN PIPING AS SHOWN. BACKFILL VOID FROM DRAIN INLET AND STORM DRAIN PIPING REMOVAL PER DETAIL 11 SHEET SD/C7.1.

D6 PLUG 10' S.D. LINE WITH CONCRETE AT 1' AWAY FROM MANHOLE.

D7 REMOVE CHAIN LINK FENCE/GATE INCLUDING POSTS & FOOTINGS FOR NEW CONCRETE IMPROVEMENTS. SEE ARCHITECTURAL DRAWINGS FOR FENCE RE-INSTALLATION.



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08/11/2023

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SITE DEVELOPMENT
 SITE DEMOLITION PLAN

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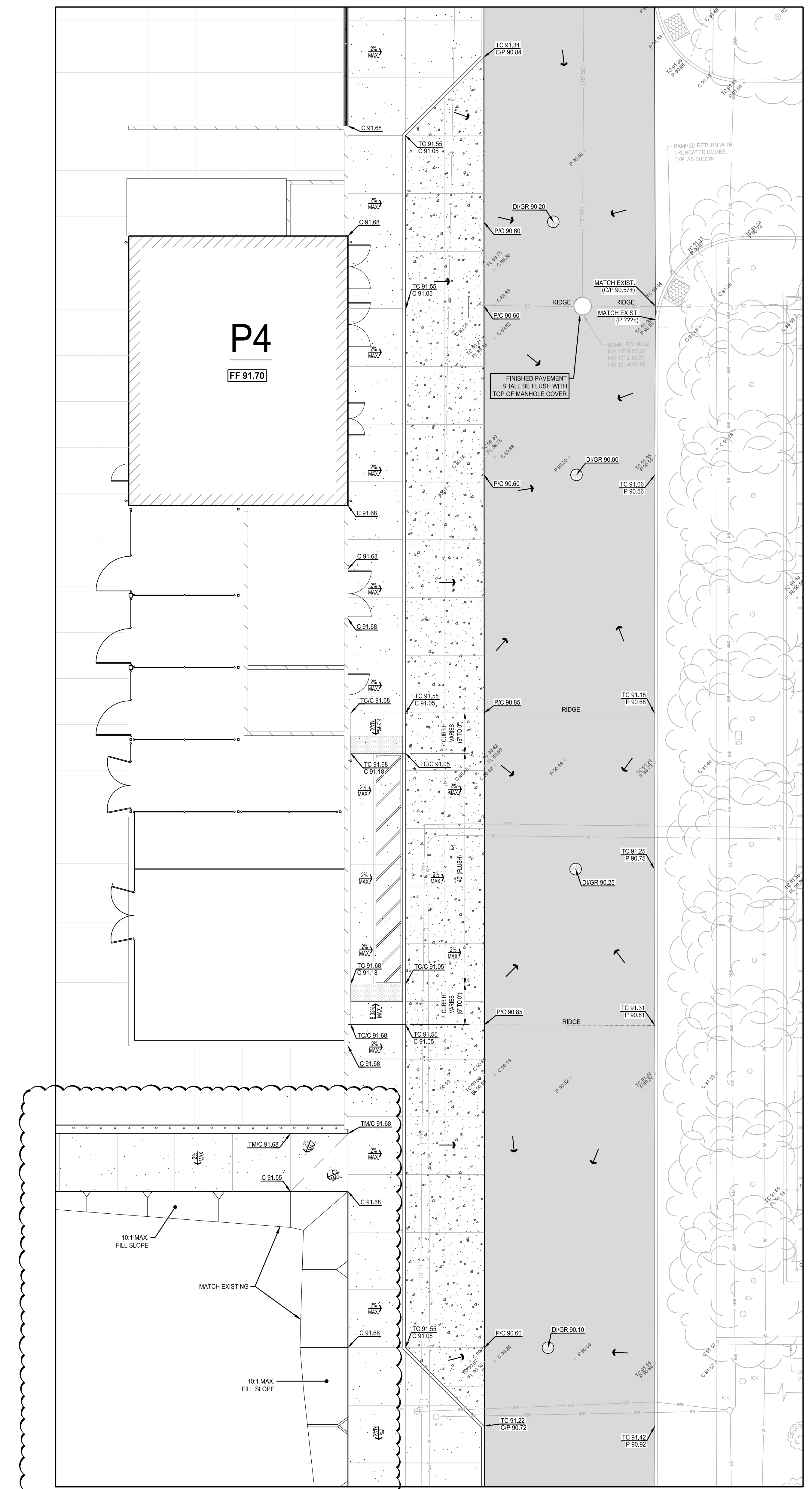
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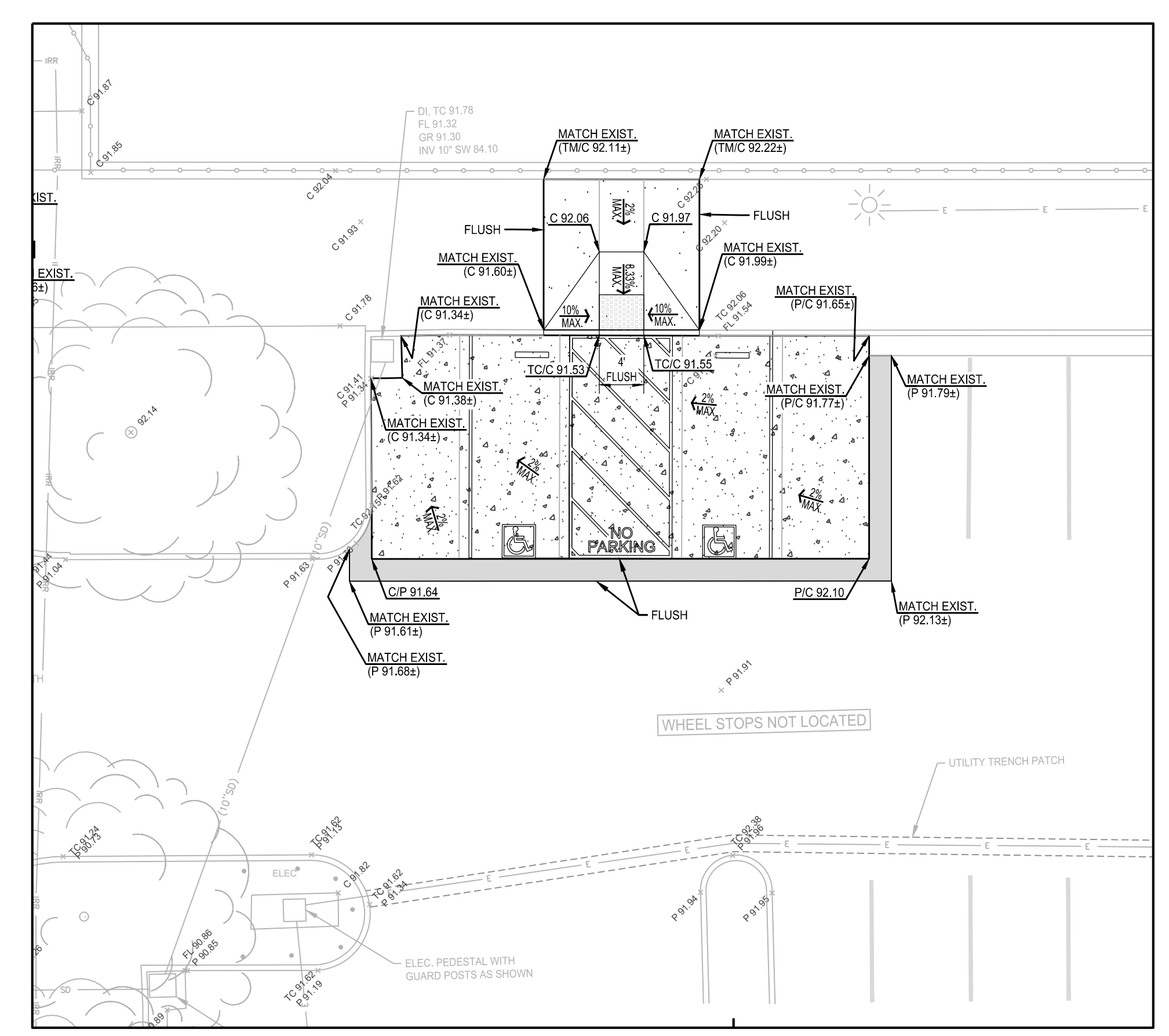
Revision

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(B) ENLARGED GRADING DETAIL
SCALE: 1"=10'



(A) ENLARGED GRADING DETAIL
SCALE: 1"=10'



DSA File No.: 54-H11

DSA Application No.: 02-120251

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NOTES

1. REFER TO SHEETS SD/C1.1 FOR BENCHMARKS, GENERAL NOTES & INFORMATION.
2. UNLESS SHOWN OR NOTED OTHERWISE, WHERE FINISH GRADE ABUTS NEW CONCRETE WALKS, MOW STRIP, CONCRETE PAVEMENT, BACK OF CURBS, FINISH GRADE ELEVATION SHALL BE 1 INCH LOWER THAN ADJACENT CONCRETE ELEVATION IN SHRUB AREAS AND 1/2 INCH LOWER IN TURF AREAS.
3. FINISHED PAVEMENT ELEVATION IS 0.5 BELOW TOP OF BARRIER/LANDSCAPE CURB IN THE PARKING LOT AND DRIVE AREAS UNLESS SHOWN OR NOTED OTHERWISE ON THE DRAWINGS.
4. CROSS SLOPE AT ALL PEDESTRIAN WALKS AND SIDEWALKS SHALL BE 1% MIN., BUT SHALL NOT EXCEED 2.0%.
5. FINISHED PAVEMENT SLOPES AT ALL ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 2.0% IN ANY DIRECTION.
6. EXTERIOR CONCRETE SHALL BE 1/2 BELOW FINISHED FLOOR AT ALL EXTERIOR DOORS TYP., UNL.O.
7. FIELD VERIFY ALL ELEVATIONS SHOWN WHERE PROPOSED IMPROVEMENTS ABUT EXISTING IMPROVEMENTS. IMMEDIATELY NOTIFY PROJECT ARCHITECT OF ANY DISCREPANCIES.
8. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL SITE INFORMATION AND DETAILS.
9. REFER TO SHEETS SD/C4.1 - SD/C4.2 FOR STORM DRAIN PIPING AND DRAIN INLET INFORMATION.
10. ALL EXISTING VALVE BOXES AND MANHOLES TO REMAIN SHALL BE ADJUSTED AS REQUIRED SO THAT THE TOP OF COVERS ARE FLUSH WITH FINISH GRADES.
11. SEE PLANS PREPARED BY "AQUATICS DESIGN GROUP" AND ARCHITECTURAL DRAWINGS FOR IMPROVEMENTS INSIDE POOL COMPLEX INCLUDING GRADING AND DRAINAGE.

LEGEND

- NEW CONCRETE SIDEWALK/FLATWORK
- NEW ASPHALT CONCRETE PAVEMENT
- NEW CONCRETE PAVEMENT SURFACE
- PROPERTY LINE/RIGHT OF WAY

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Revision

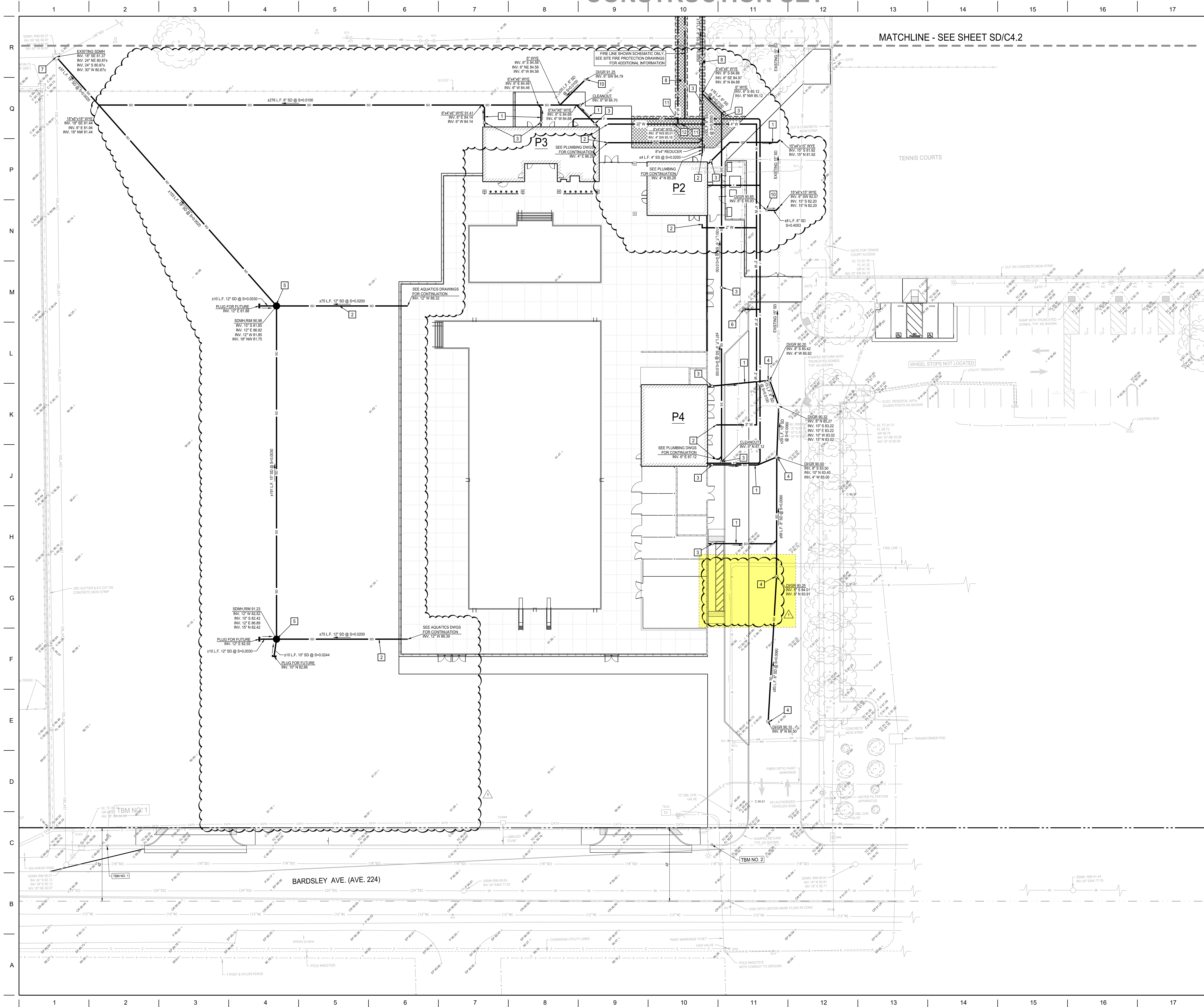
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Project Number: 2180	Checked By: AO
Date: 08-02-22	Reviewed By: AO

SD/ C3.2

Sheet: 1 of 1

CONSTRUCTION SET

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APP: 02-120251, INC.
REVIEWED FOR
PLS BY ACS
DATE: 08/28/2023



MATCHLINE - SEE SHEET SD/C4.2

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DSA Application No.:
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NOTES

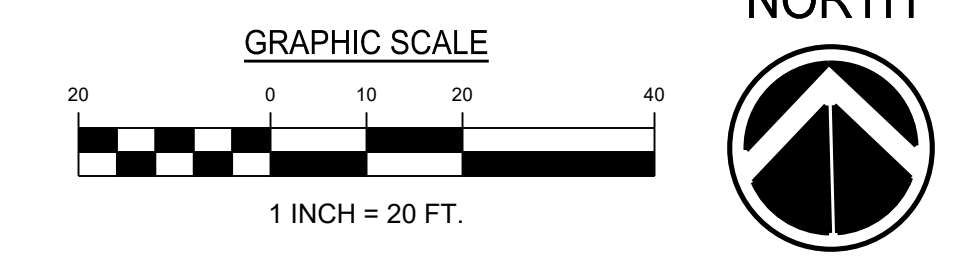
1. REFER TO SHEETS SD/C4.1 FOR BENCHMARKS, GENERAL NOTES & INFORMATION.
2. SEE ARCHITECTURAL DWGS. FOR ADDITIONAL SITE INFORMATION AND DETAILS. SEE PLUMBING DRAWINGS FOR ADDITIONAL WET UTILITY PIPING.
3. ALL STORM DRAIN PIPING AND LATERALS SHALL HAVE A MINIMUM OF 3% OF COVER.
4. ALL TRENCHES ON-SITE SHALL BE BACKFILLED IN ACCORDANCE WITH DETAIL 11 SHEET SD/C4.1. PROVIDE NEW TURF SURFACE WHERE EXISTING HAS BEEN REMOVED DUE TO NEW PIPE TRENCHING. SEE LANDSCAPING SPECIFICATIONS FOR TURF REQUIREMENTS.
5. ANY EXISTING IRRIGATION SYSTEMS THAT ARE DAMAGED OR REMOVED DUE TO NEW UTILITY PIPE INSTALLATION SHALL BE REPAIRED AS REQUIRED.
6. DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, PIPE SLOPES, FITTINGS, ETC., WHICH MAY BE REQUIRED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THESE DRAWINGS AND FURNISH ALL FITTINGS, ETC. NECESSARY TO COMPLETE A FULLY FUNCTIONAL PIPING SYSTEM AND AVOID ANY CONFLICTS WITH OTHER UTILITIES.

LEGEND

- RIGHT OF WAY/PROPERTY LINE
- NEW STORM DRAIN PIPING
- NEW SANITARY SEWER PIPING
- NEW WATER PIPING
- NEW FIRE PIPING (SEE FIRE PROTECTION DRAWINGS)

CONSTRUCTION KEYNOTES

- (SHEETS C4.1 & C4.2)
1. 4" STORM DRAIN LATERAL TO ROOF DOWNSPOUTS. ALL LATERALS SHALL HAVE A MIN. SLOPE OF 2.0% UNAD. SEE ARCHITECTURAL DRAWINGS FOR STORM DRAIN TO ROOF DOWNSPOUT CONNECTIONS. CONTRACTOR SHALL VERIFY LOCATION OF ROOF DOWNSPOUTS WITH ARCHITECTURAL DRAWINGS.
 2. POC - SEE PLUMBING/AQUATICS DRAWINGS FOR CONNECTION/CONTINUATION.
 3. CONSTRUCT SURFACE CLEANOUT (COTO) - SEE DETAIL 21 SHEET SD/C4.1.
 4. CONSTRUCT AREA DRAIN - SEE DETAIL 32 SHEET SD/C4.1.
 5. CONSTRUCT STORM DRAIN MANHOLE WITH SOLID LID COVER - SEE DETAILS 13, 22 & 24 SHEET SD/C4.1.
 6. NEW FIRE HYDRANT - SEE SITE FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.
 7. CONNECT TO EXISTING CONTRACTOR TO VERIFY LOCATION AND DEPTHS OF EXISTING UTILITIES AT POINT OF CONNECTION PRIOR TO NEW INSTALLATION. NOTIFY ARCHITECT OF RECORD OF ANY DISCREPANCIES.
 8. TRENCH BACKFILL & REPAIR LANDSCAPING ALONG NEW PIPE. RESTORE TURF WITH NEW TURF. TRIM WAY SOD, AND BLEND INTO THE EXISTING TURF FOR A SEAMLESS TRANSITION.
APPROX. REPAIR AREA SHOWN THIS:
 9. TRENCH BACKFILL & REPAIR CONCRETE WALK ALONG NEW PIPE.
APPROX. REPAIR AREA SHOWN THIS:
 10. CONSTRUCT DRAIN INLET WITH CAST IRON GRATE - SEE DETAIL 14 SHEET SD/C4.1.
 11. FURNISH & INSTALL 4" DOMESTIC WATER GATE VALVE.
 12. FURNISH & INSTALL 2" DOMESTIC WATER GATE VALVE.



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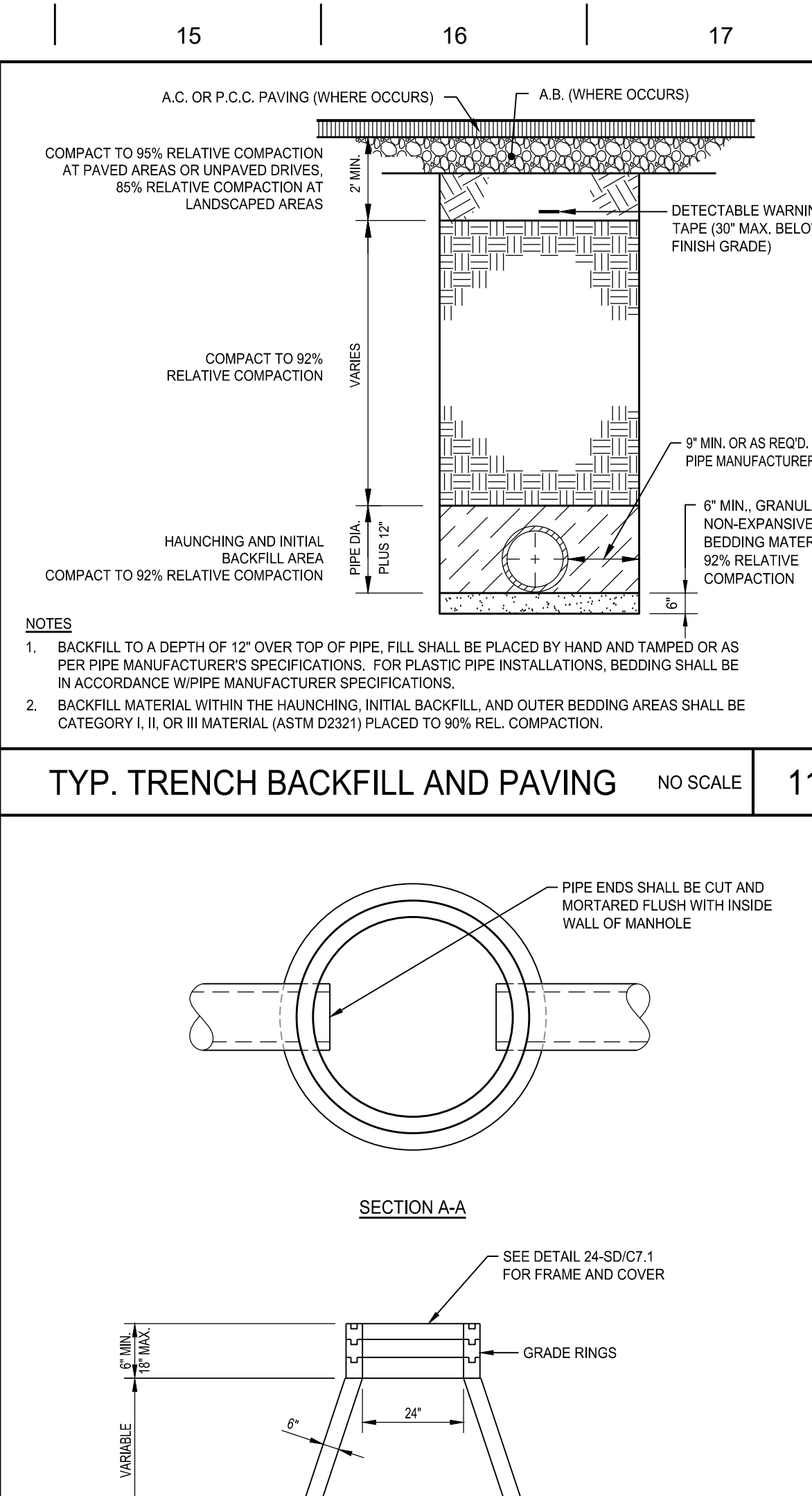
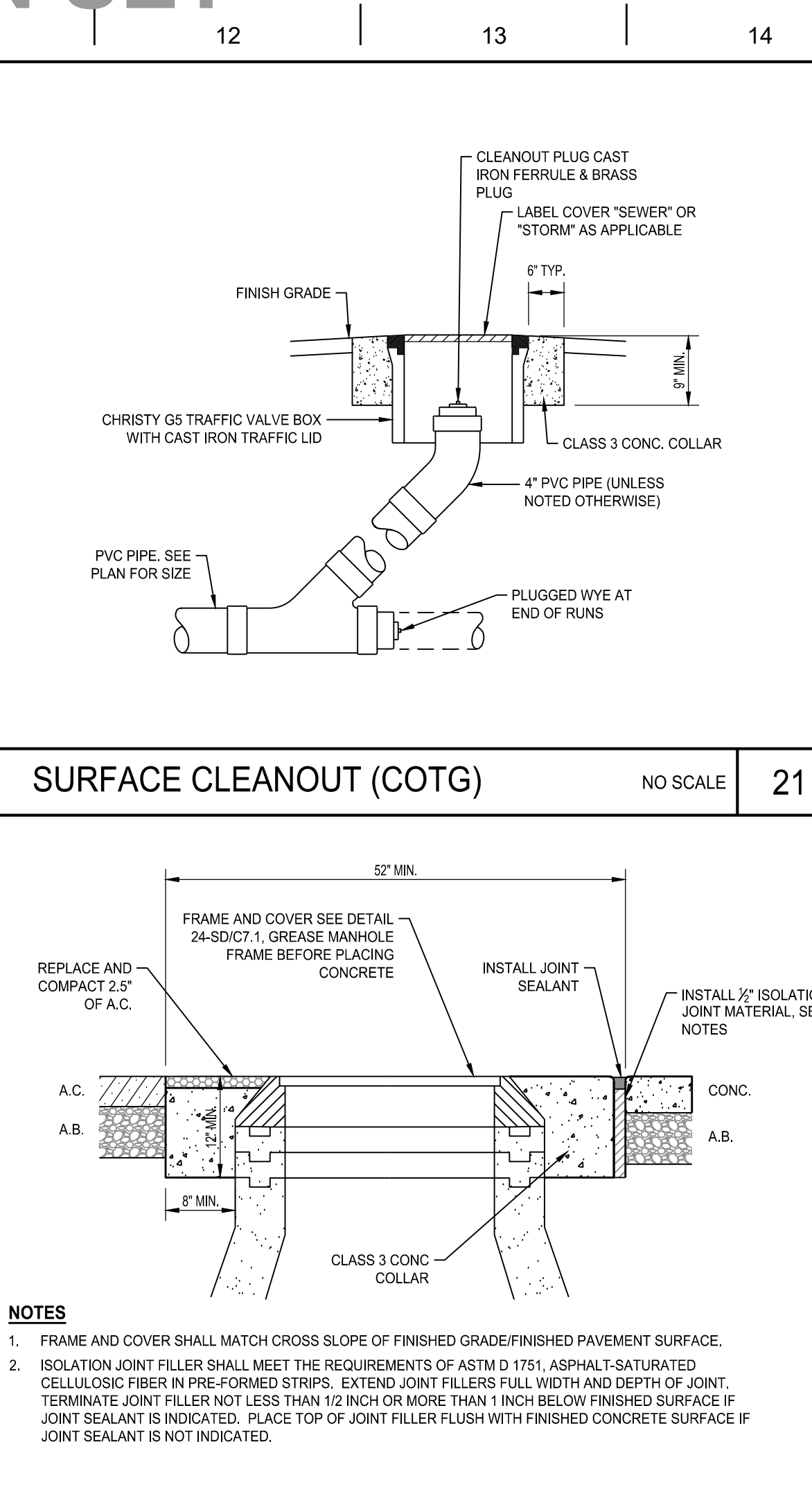
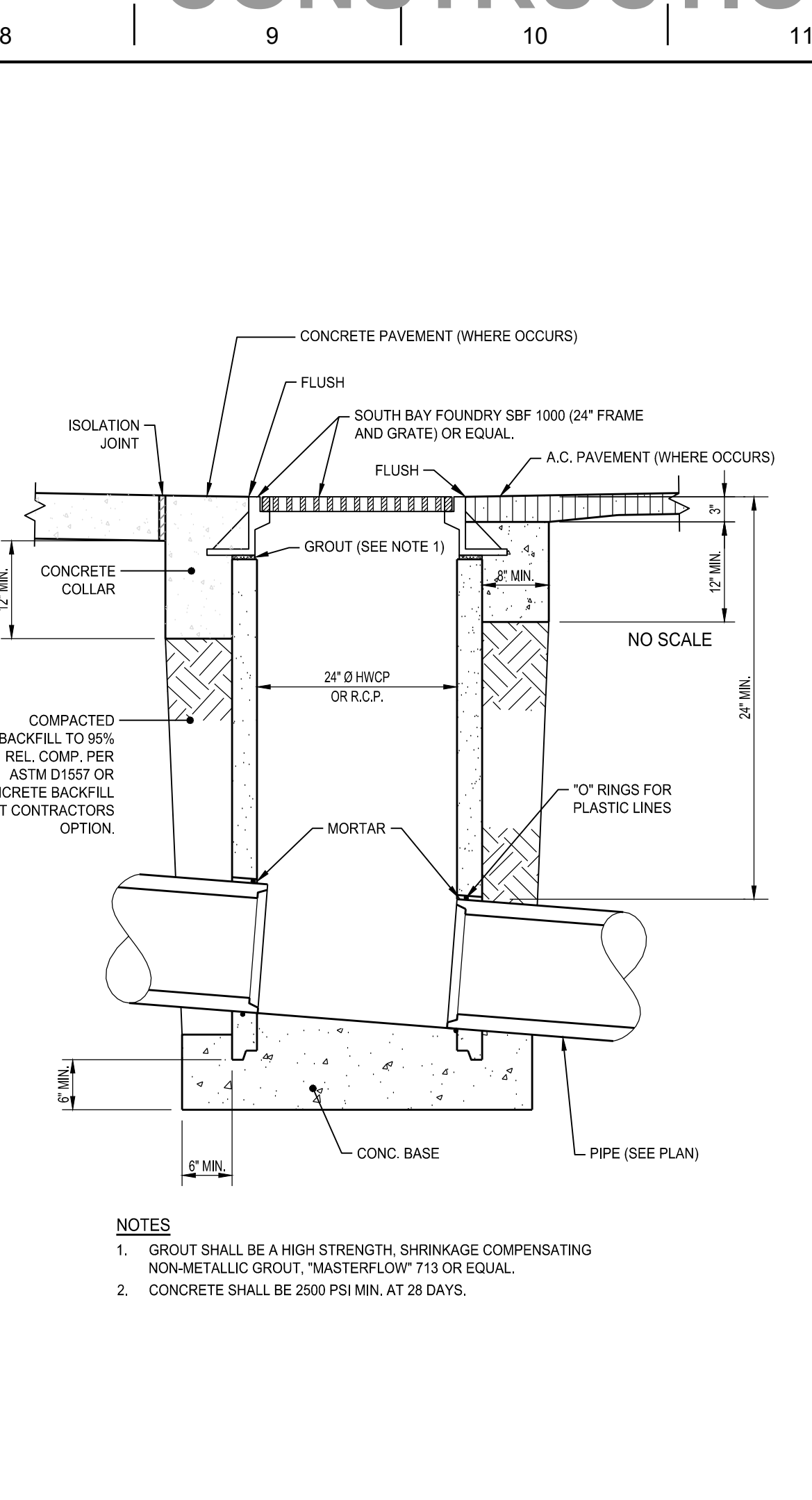
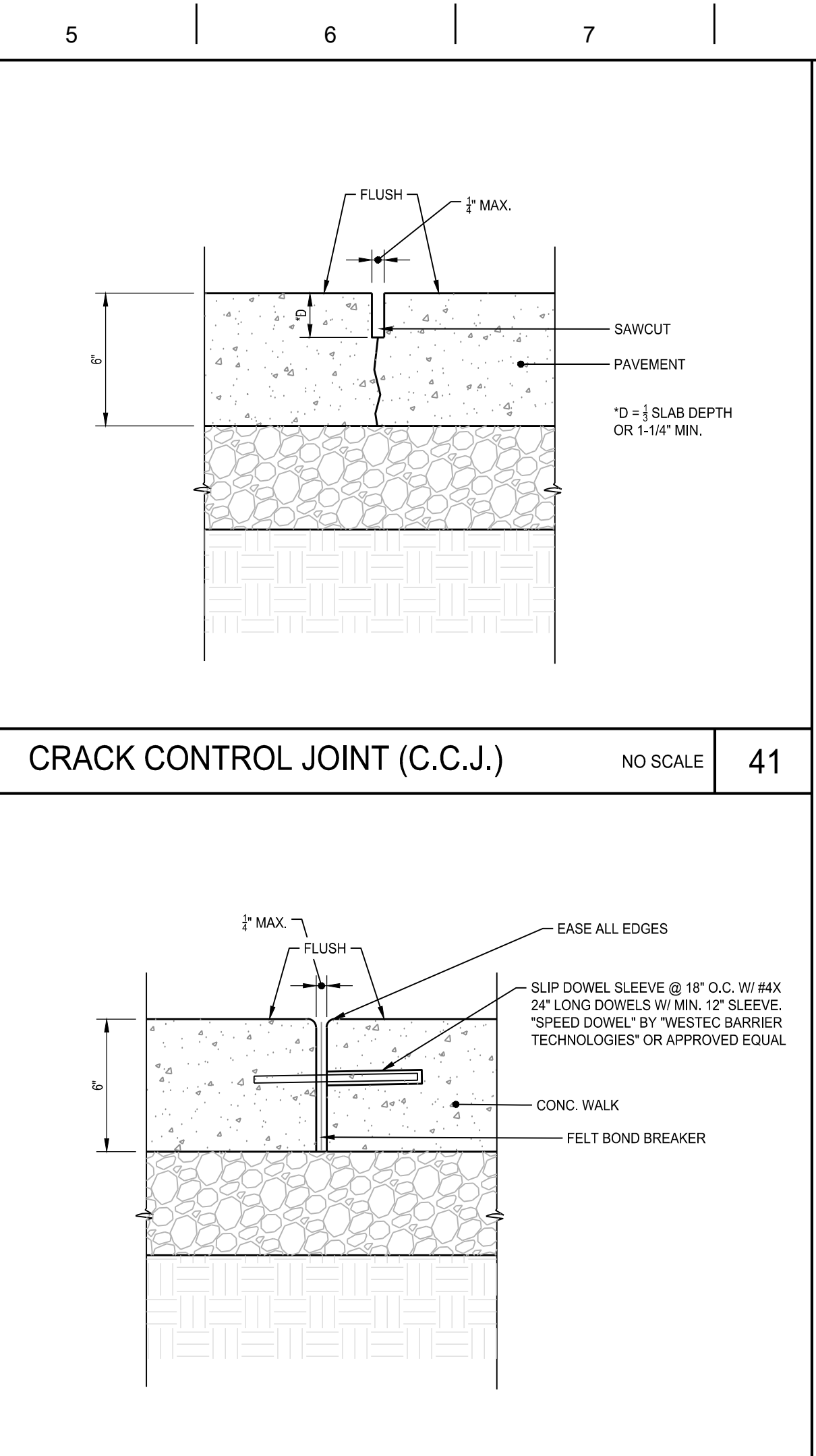
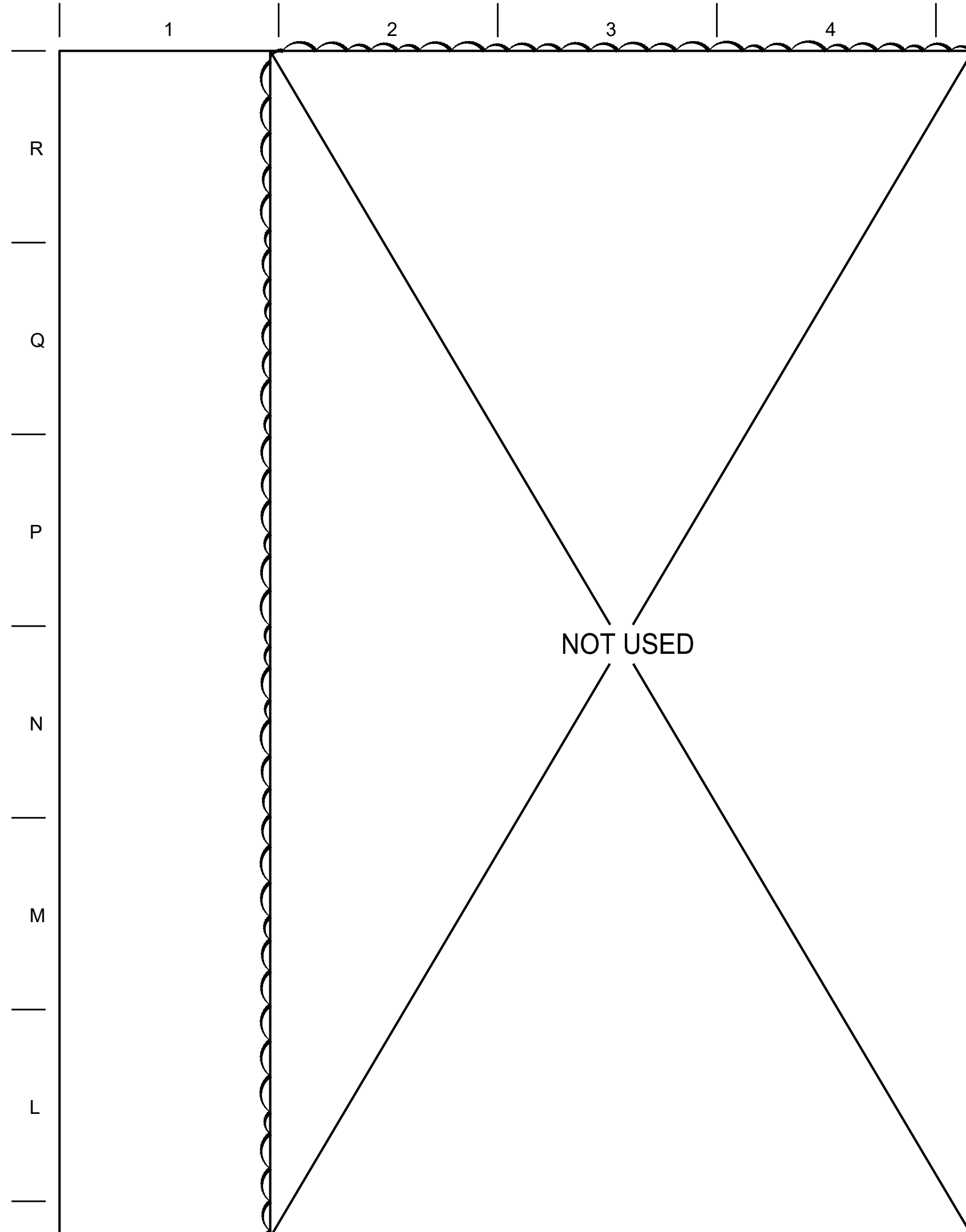
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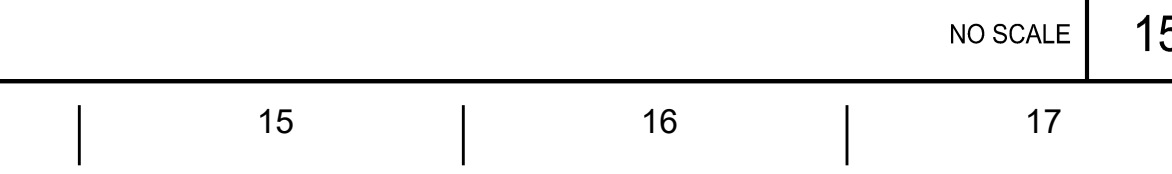
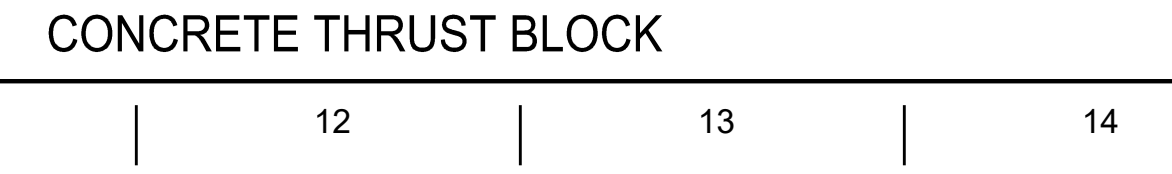
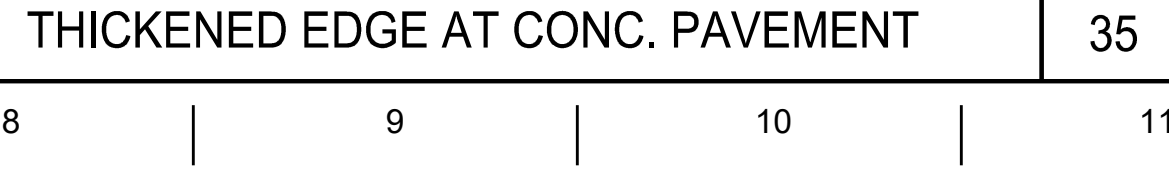
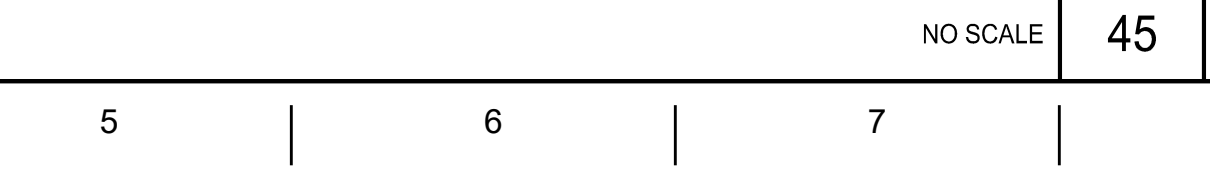
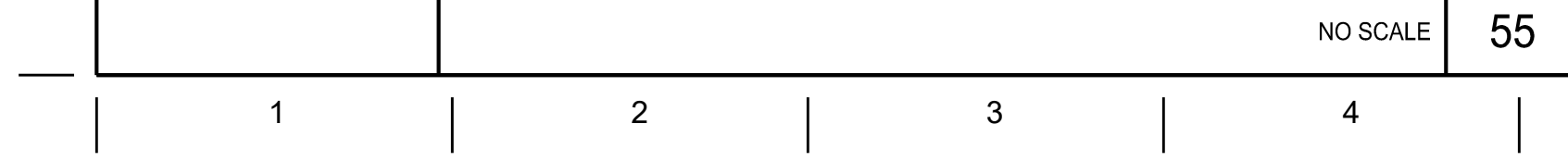
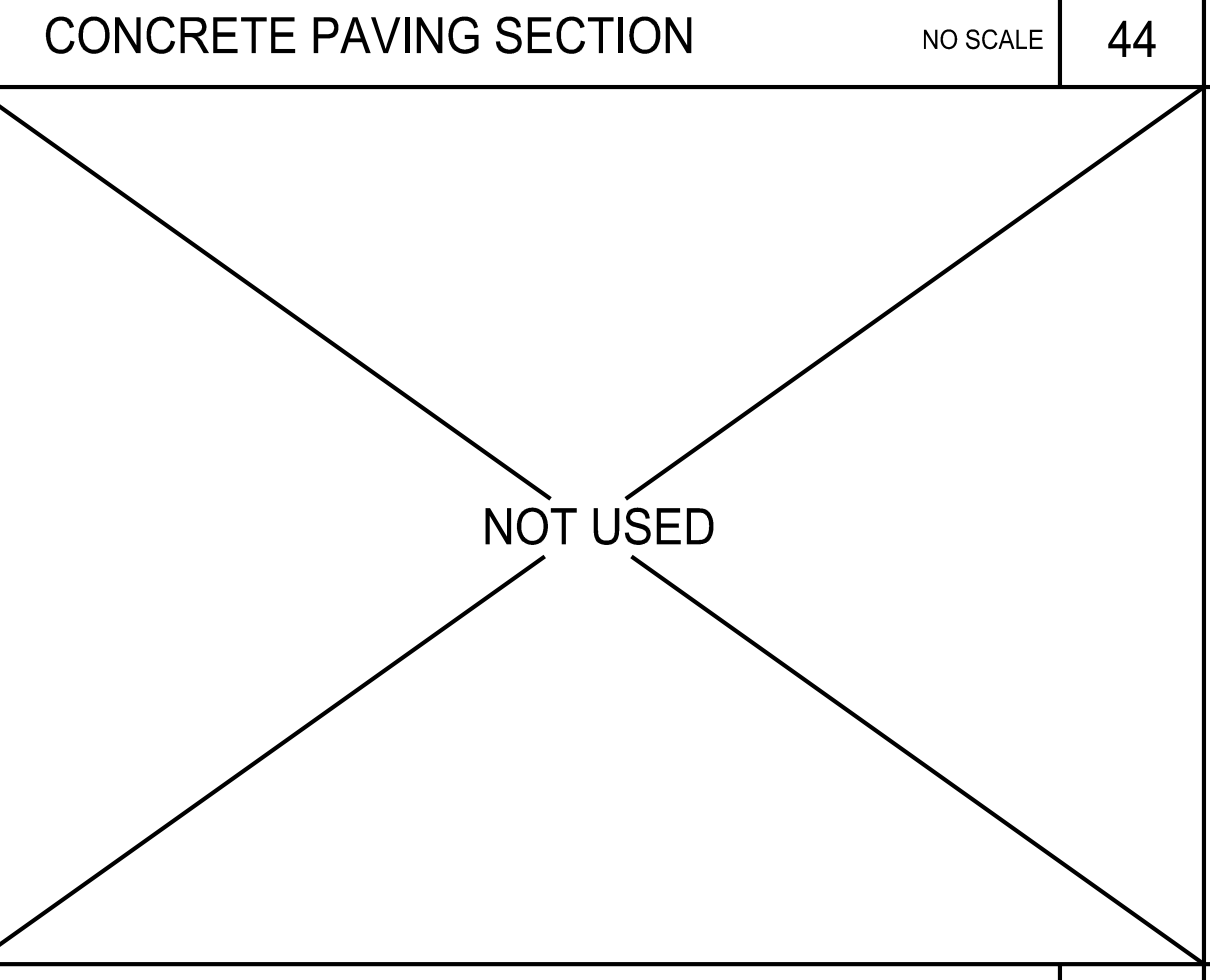
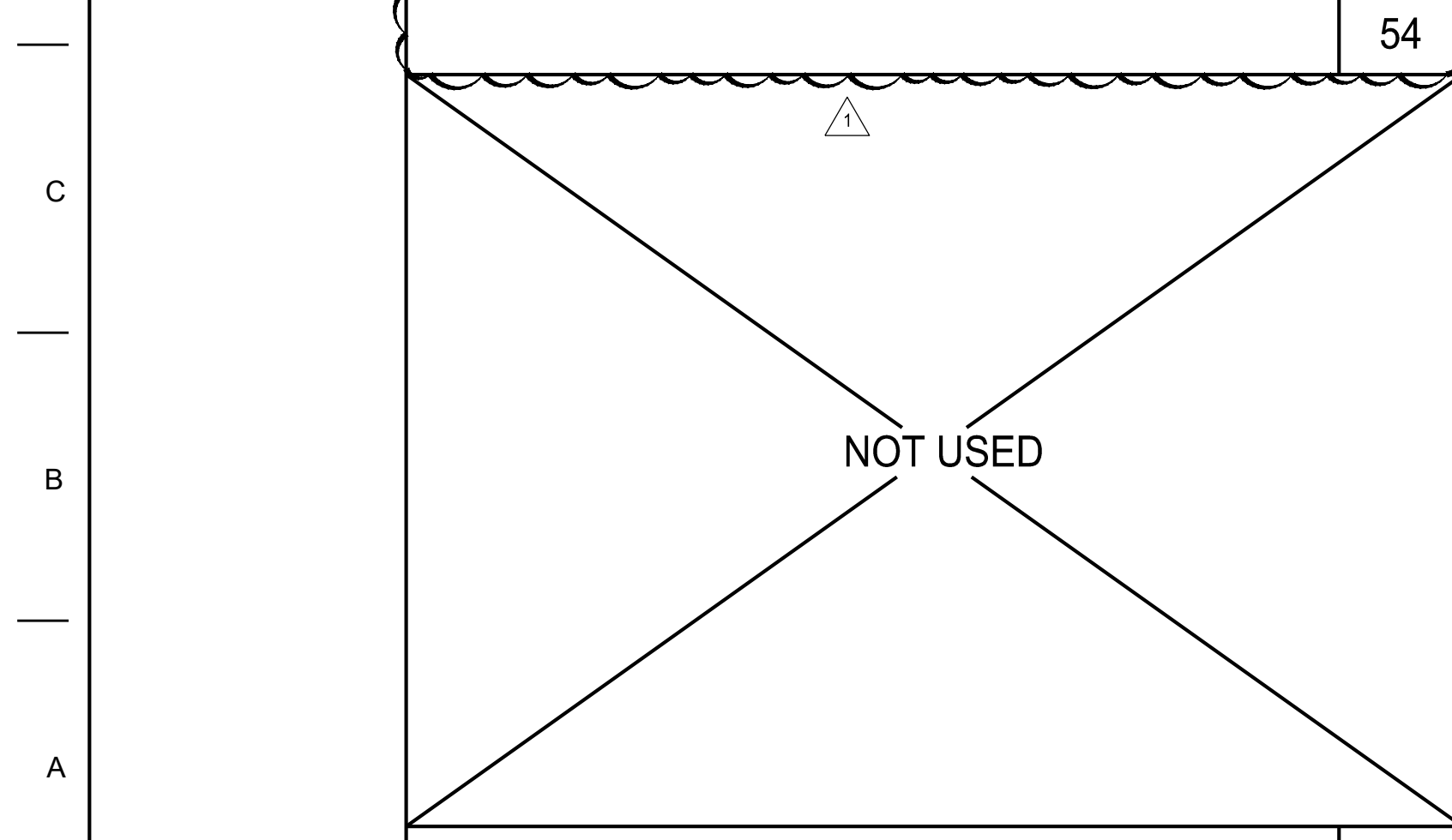
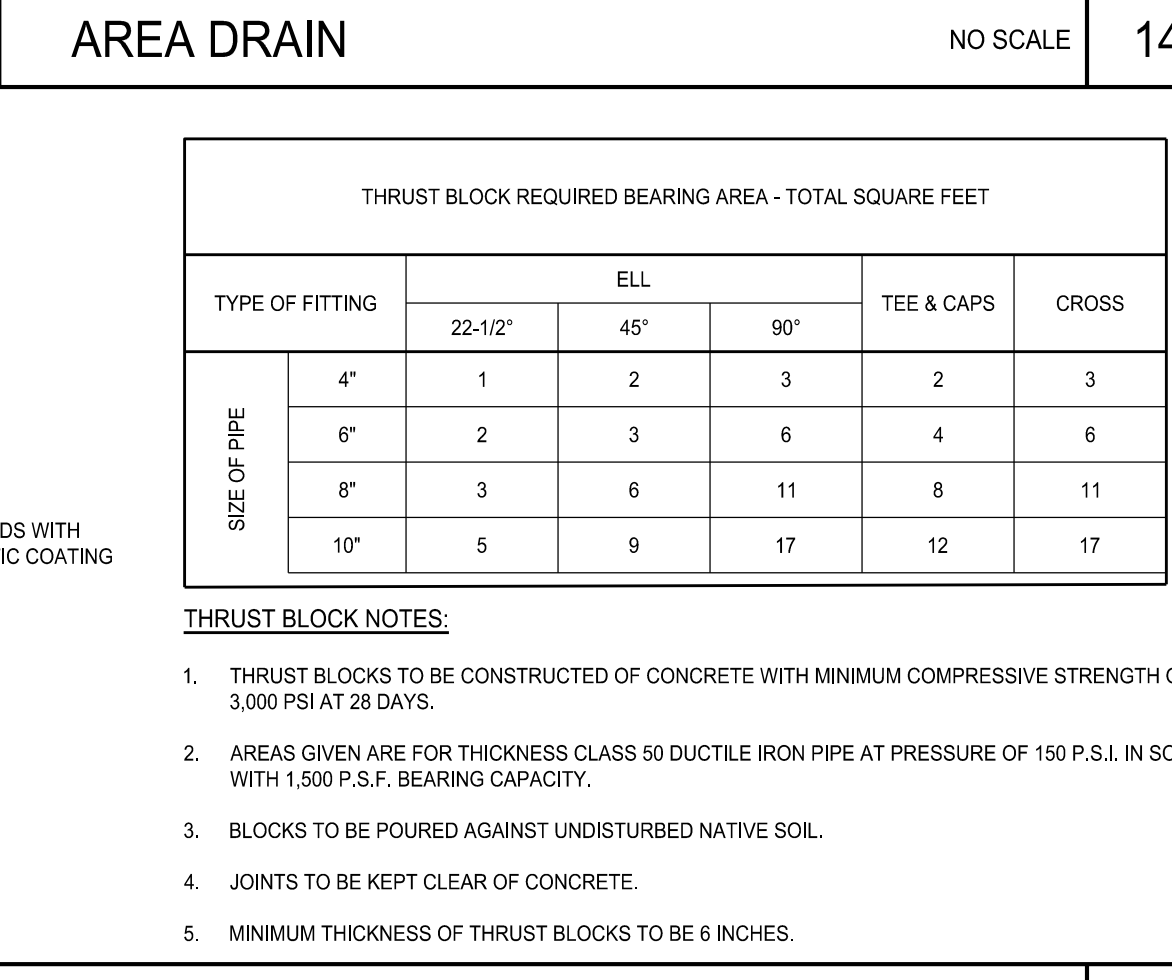
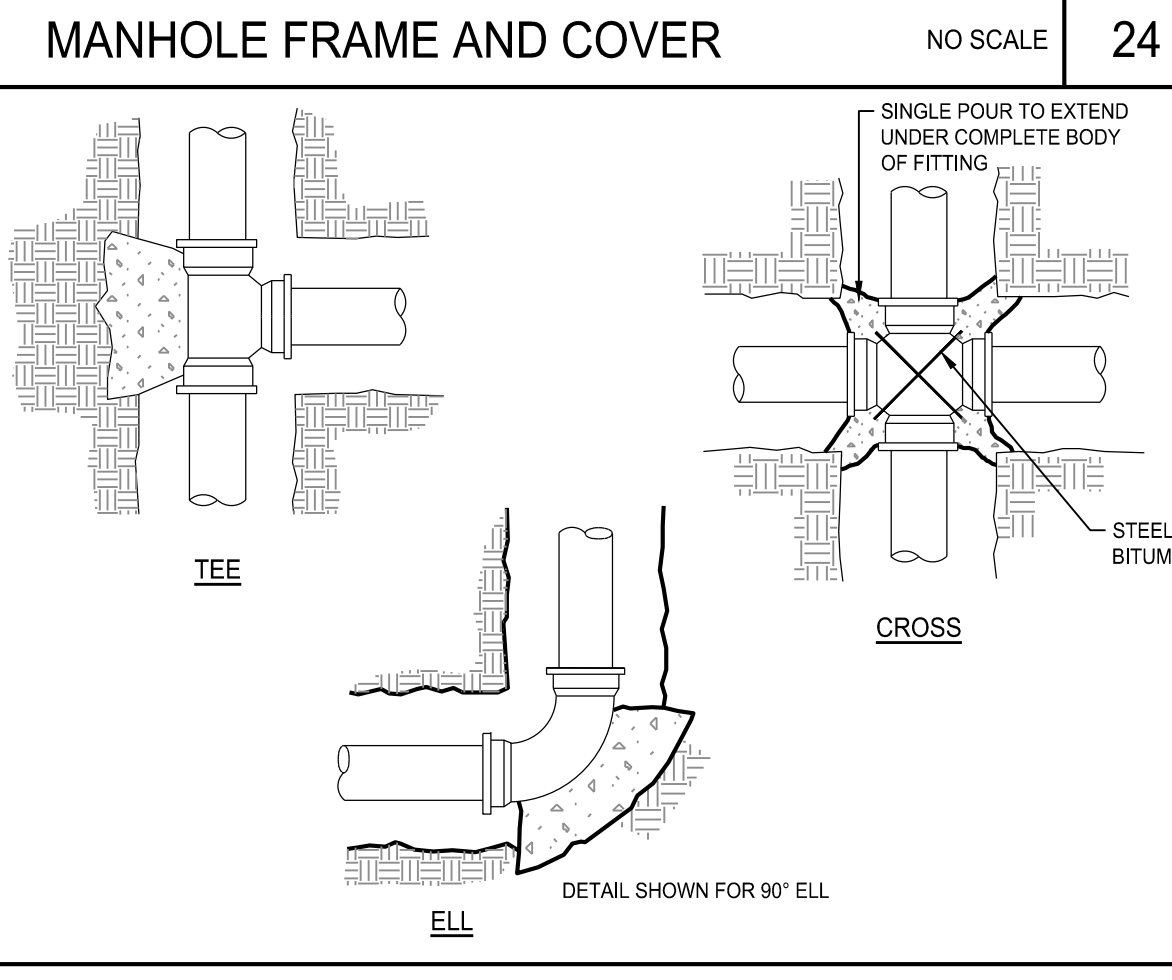
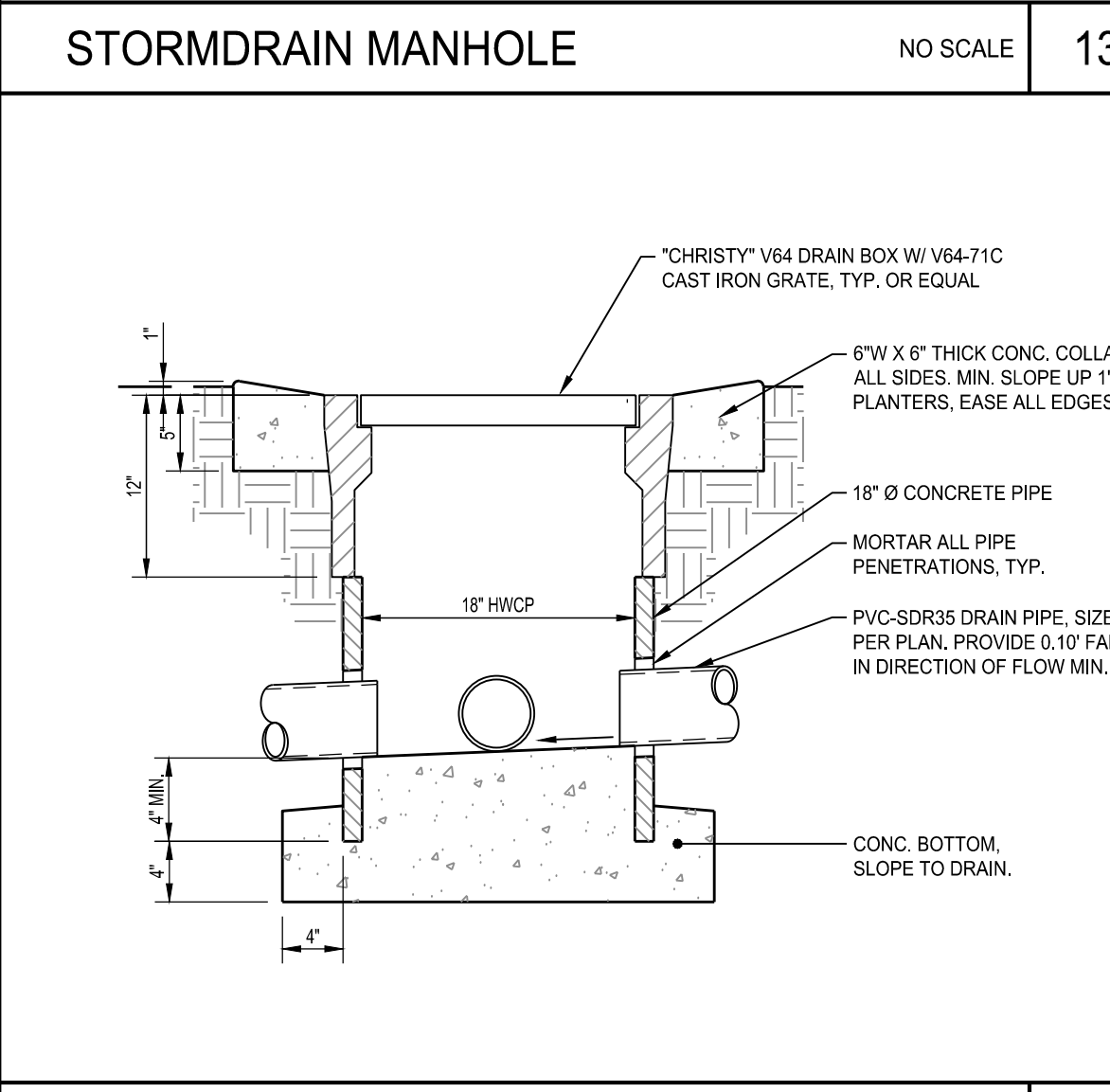
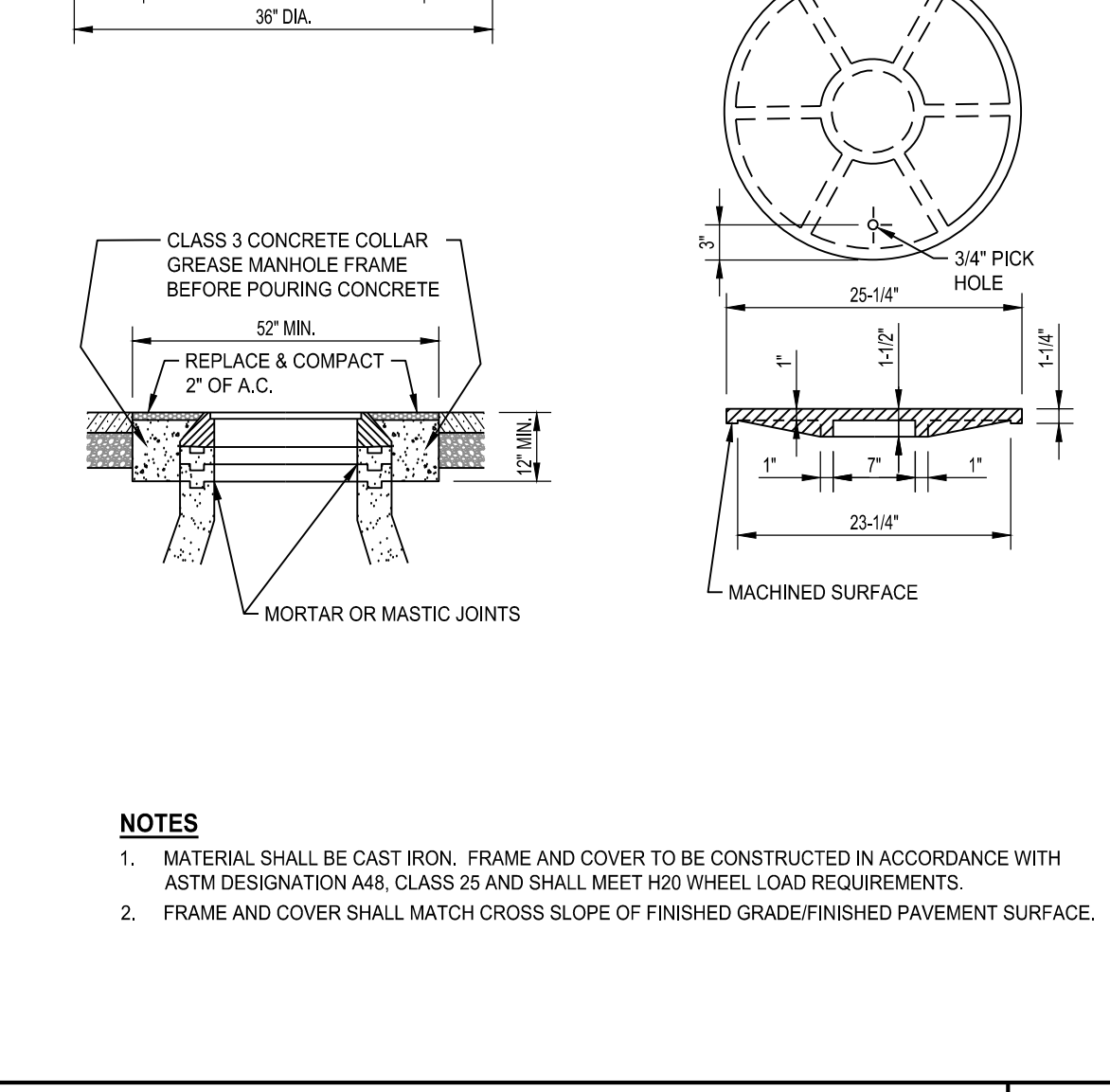
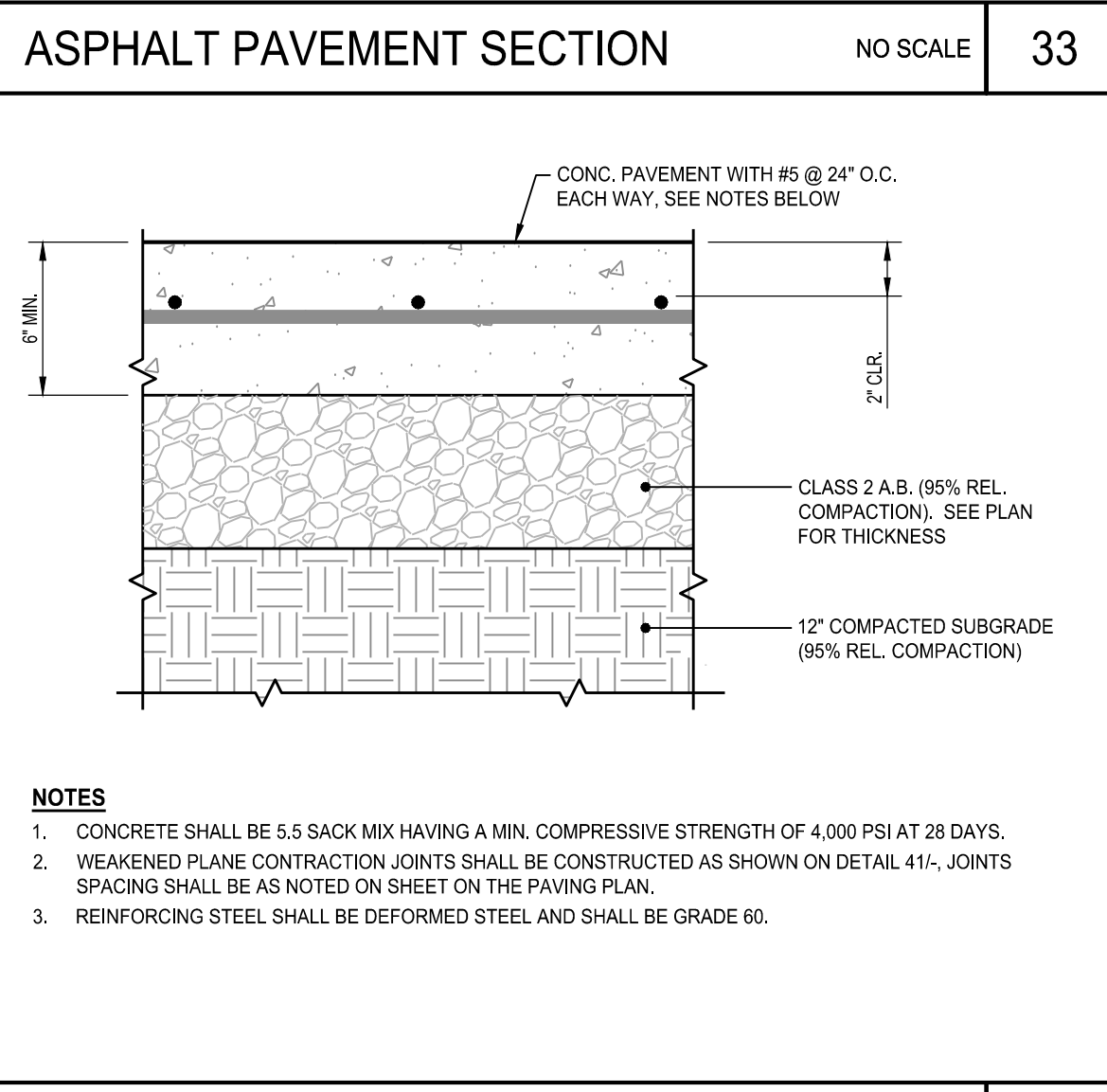
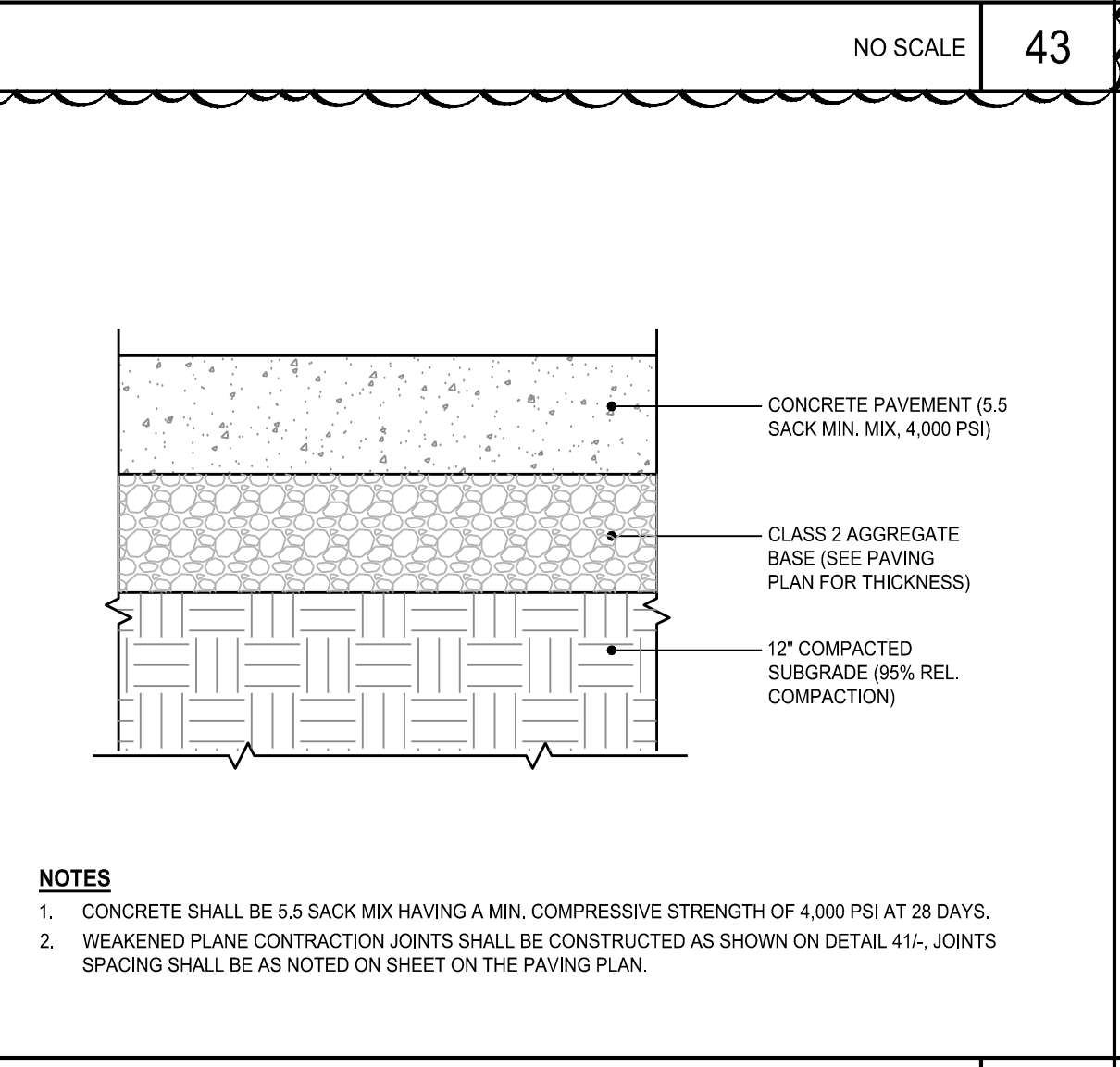
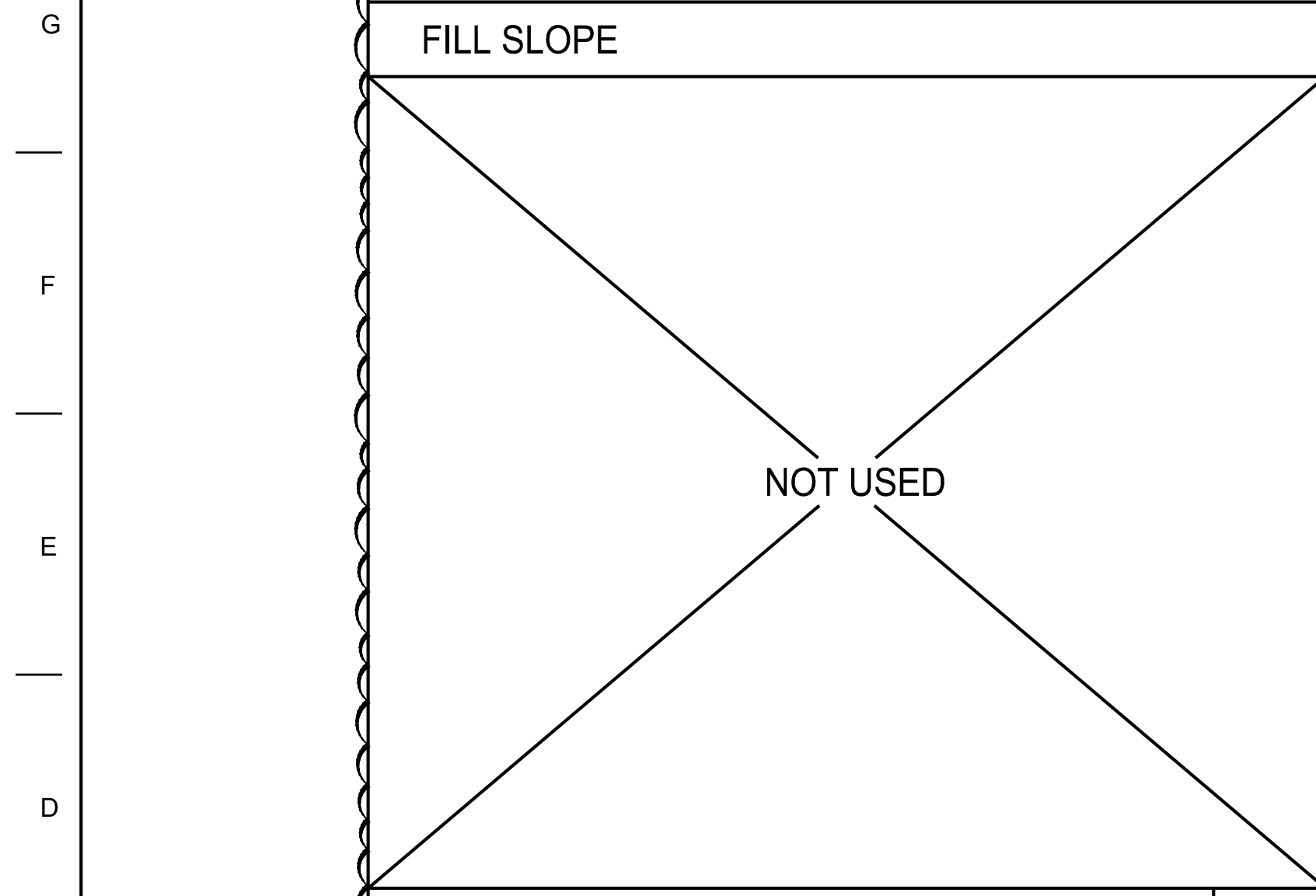
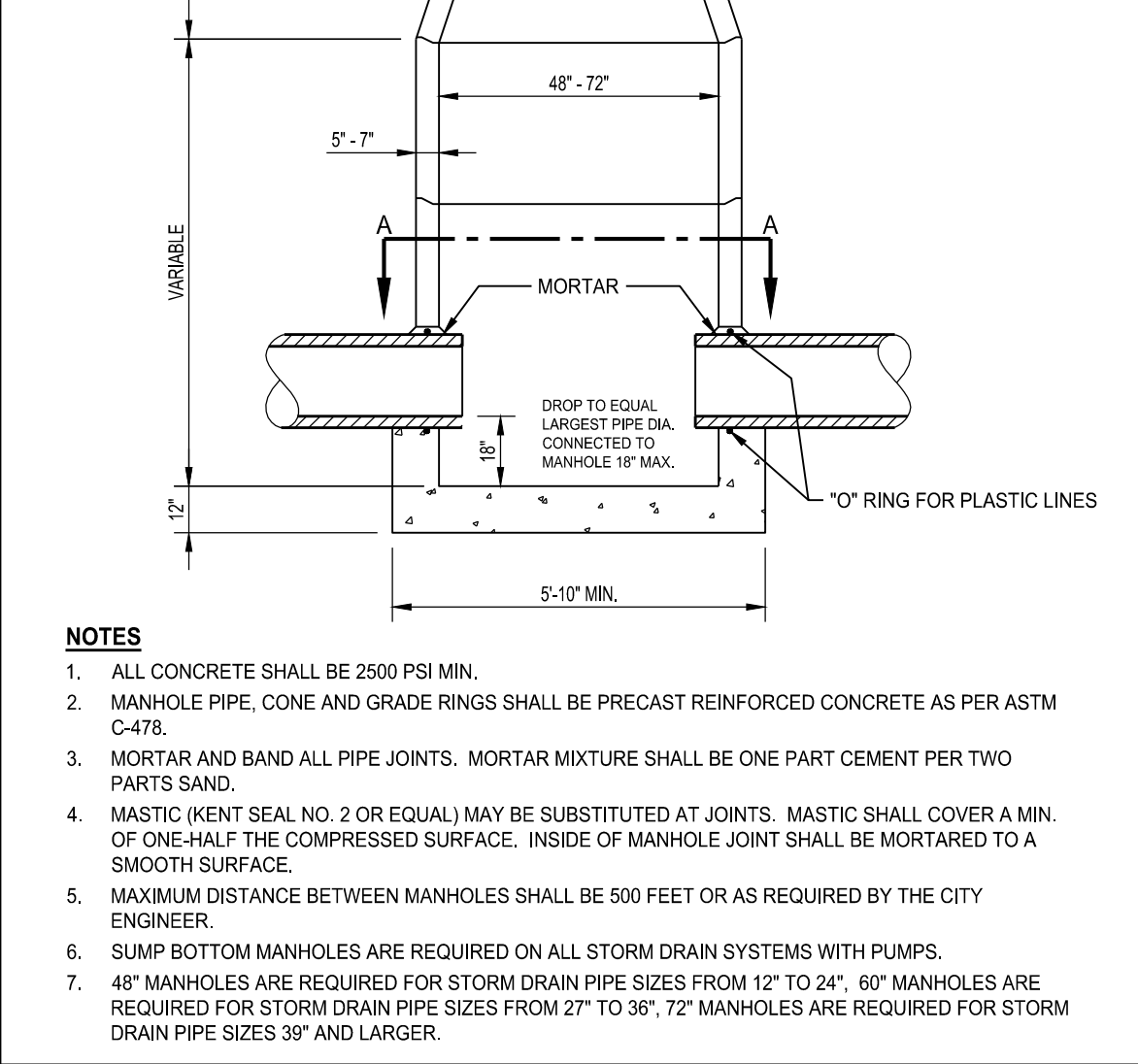
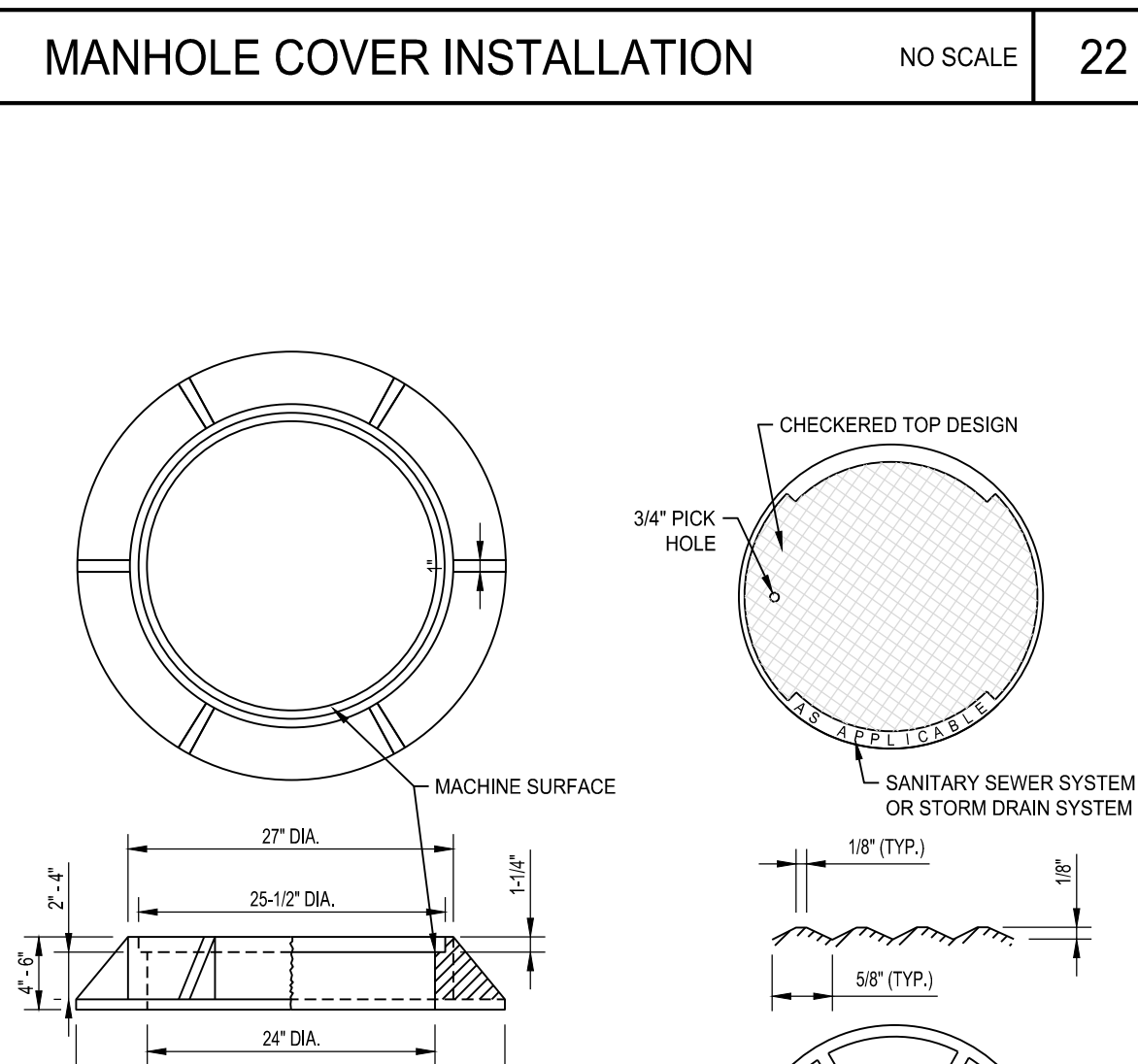
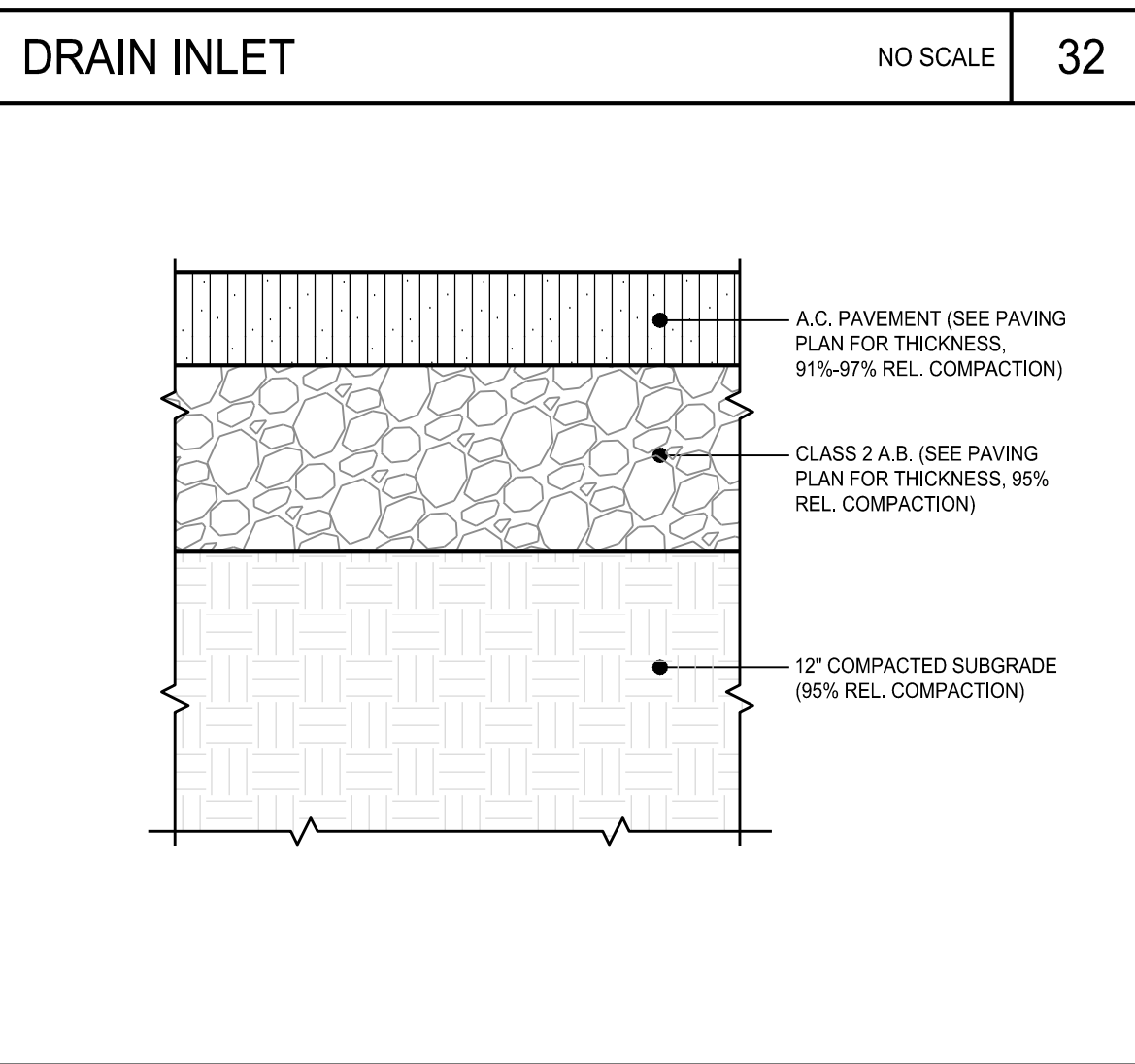
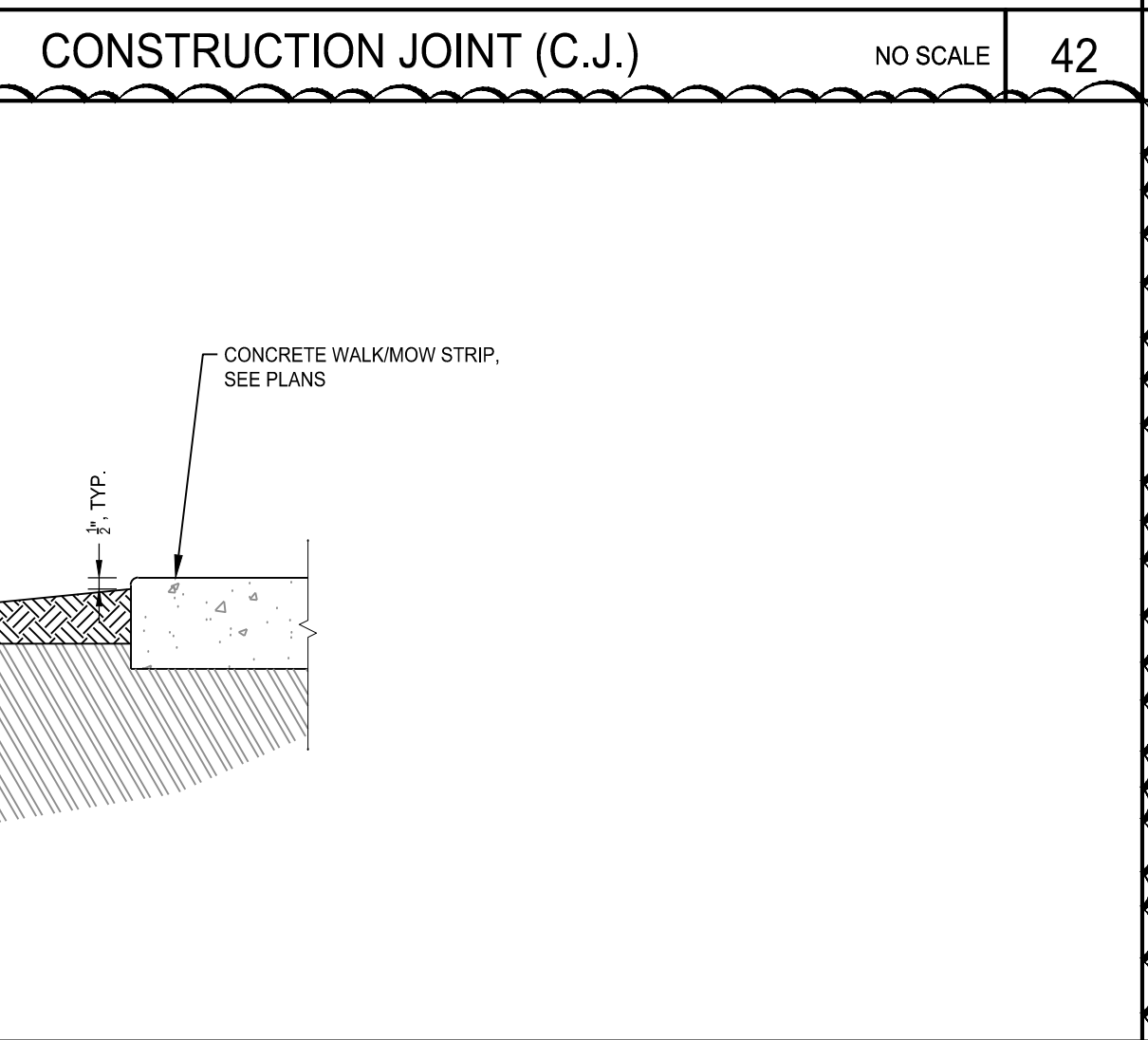
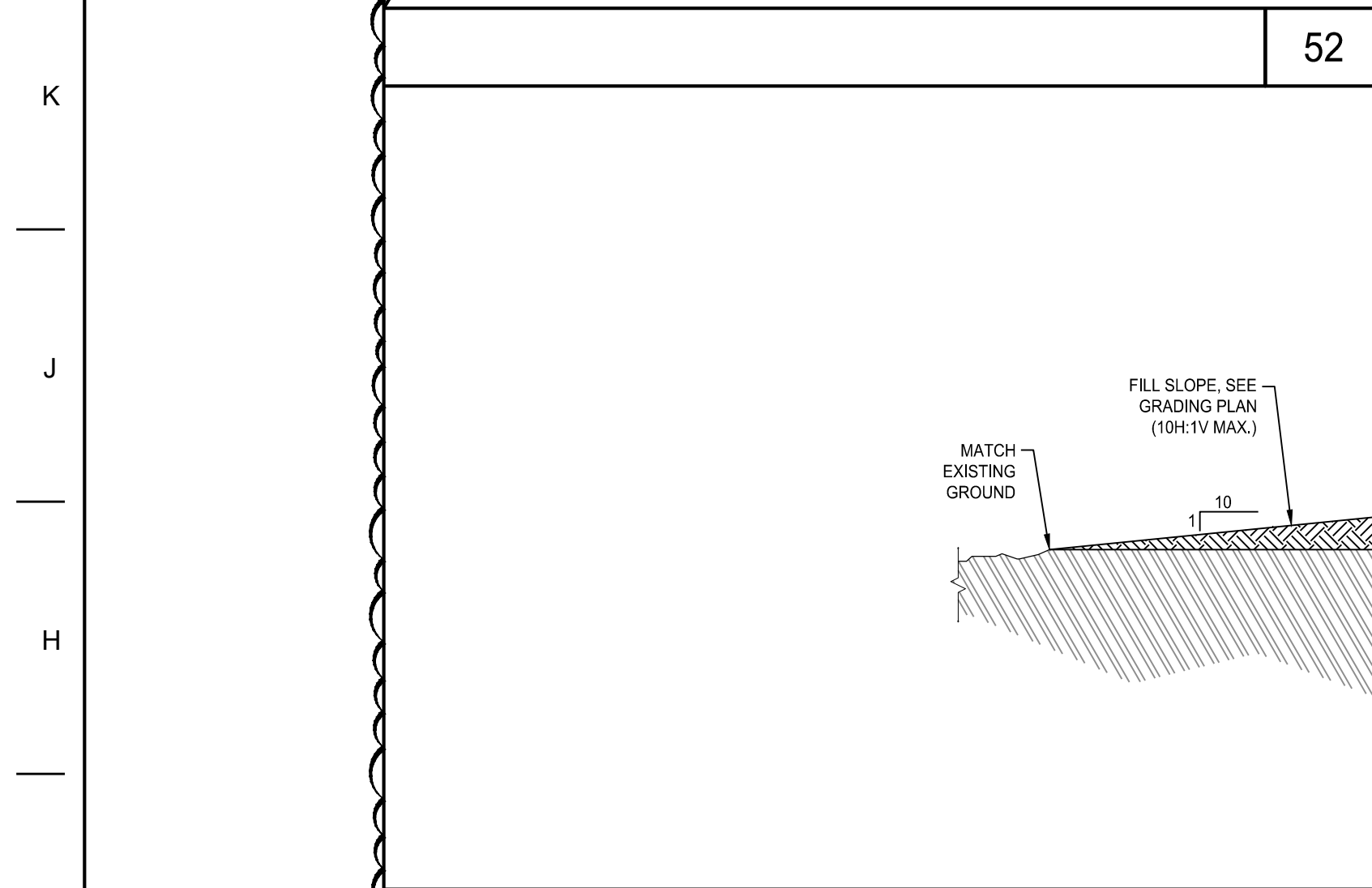
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Date:	08-02-22	
	Designed By: WV	Copyright © 2022 Darden Architects
	Drawn By: WV	
	Checked By: AO	SD/C4.1.1
	Reviewed By: AO	Sheet: 1 of 1



DSA File No.: 54-H11

DSA Application No.: 02-120251

Agency Approval



LANE ENGINEERS INC.
CIVIL & STRUCTURAL ENGINEERING
979 N. BLACKSTONE
TULARE, CALIFORNIA 93274
(559) 868-9283

Consultant

MISSION OAK HS AQUATIC COMPLEX
Tulare Joint Union High School District
Tulare, CA

Project

MISSION OAK HS AQUATIC COMPLEX
Tulare Joint Union High School District
Tulare, CA

Project

SITE DEVELOPMENT
CIVIL DETAILS

Drawing

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Architect

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Scale: AS INDICATED
Project Number: 2180
Date: 08-02-22

Designed By: WV
Drawn By: WV
Checked By: AO
Reviewed By: AO

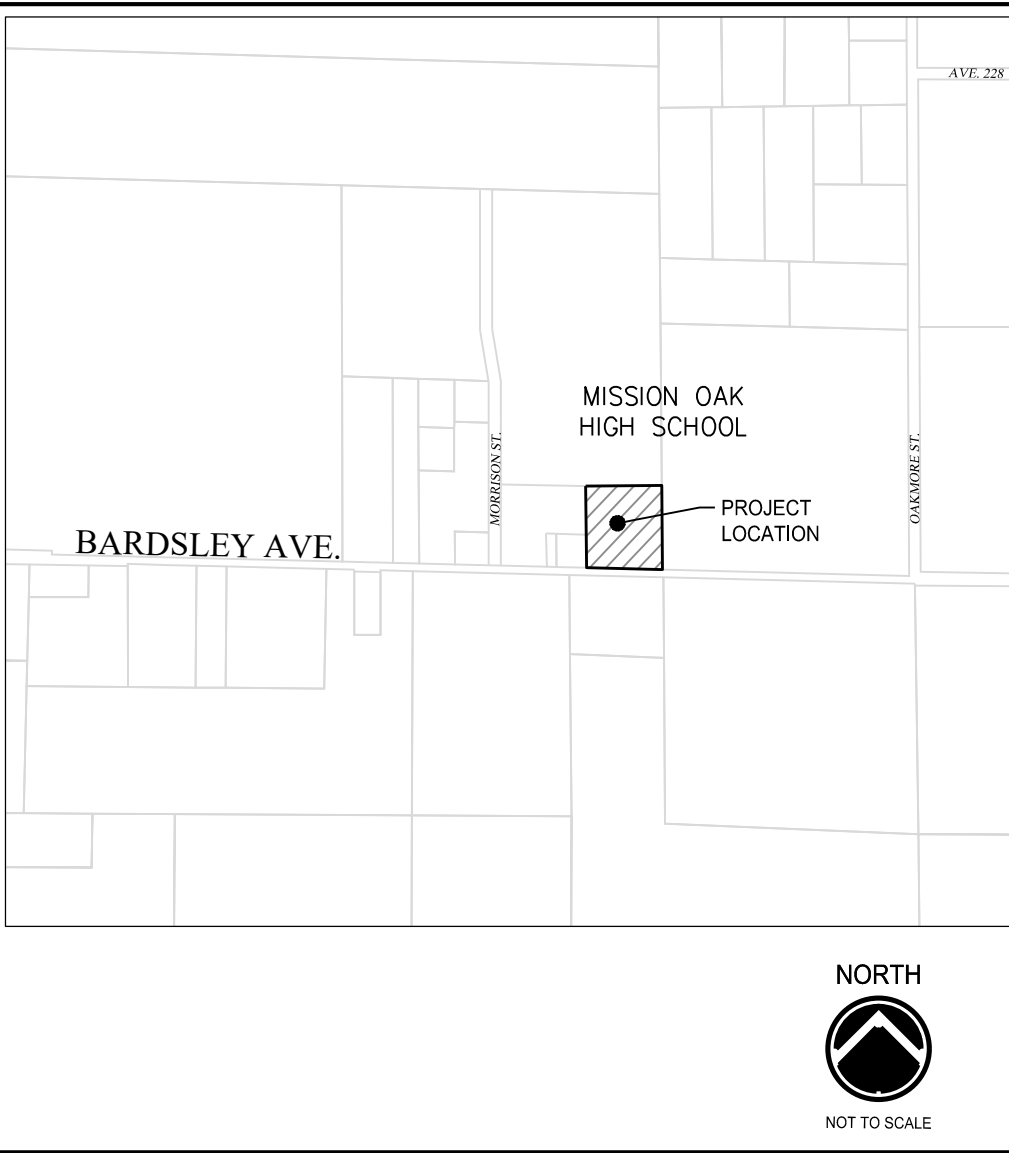
SD/ C7.1

Sheet: 1 of 1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120251 INC.
REVIEWED FOR
DATE: 01/31/2023

NEW DRIVE APPROACHES
ON BARDSLEY AVENUE FOR
AQUATICS COMPLEX AT
MISSION OAK H.S.

FOR:
TULARE JOINT UNION HIGH SCHOOL DISTRICT
PROJECT LOCATION: 3442 E. BARDSLEY AVE.
TULARE, CA 93274



CONSTRUCTION STAKING LIABILITY WAIVER
THESE IMPROVEMENT PLANS HAVE BEEN PREPARED WITH THE INTENT THAT THE FIRM OF LANE ENGINEERS, INC. WILL BE PERFORMING THE CONSTRUCTION STAKING FOR THE COMPLETE PROJECT.

UNDERGROUND UTILITY NOTE:
THE EXISTING UNDERGROUND UTILITY LINES SHOWN ARE BASED ON THE LOCATION OF VISIBLE SURFACE IMPROVEMENTS, CITY OR COUNTY RECORD DRAWINGS, PLANT MARKINGS PLACED BY MDR LOCATING SPECIALISTS AND UTILITY COMPANY RECORD DRAWINGS.

UNDERGROUND UTILITY NOTE BENCHMARKS SURVEY NOTES VICINITY MAP OWNER

CITY OF TULARE - GENERAL CITY NOTES
1) ALL WORK AND MATERIAL SHALL CONFORM TO THE LATEST CITY OF TULARE STANDARD DRAWINGS, SPECIFICATIONS, AND STANDARD OPERATING PROCEDURES.

CONSTRUCTION STAKING

CONSTRUCTION STAKING
THE BASIS OF BEARINGS FOR THIS SURVEY IS THE CALIFORNIA COORDINATE SYSTEM, ZONE 4, NAD 83, AS DETERMINED BY GPS OBSERVATIONS RELATIVE TO THE CALIFORNIA SURVEYING AND DRAFTING, INC. VIRTUAL SURVEY NETWORK, EPOCH DATE 2011.

CONSTRUCTION STAKING LIABILITY WAIVER

CONSTRUCTION STAKING LIABILITY WAIVER
THESE IMPROVEMENT PLANS HAVE BEEN PREPARED WITH THE INTENT THAT THE FIRM OF LANE ENGINEERS, INC. WILL BE PERFORMING THE CONSTRUCTION STAKING FOR THE COMPLETE PROJECT.

SYMBOL LEGEND

Table with 2 columns: Symbol and Description. Includes symbols for underground gas, fiber optic cable, cable TV, telephone, electrical, water piping, sewer piping, irrigation, fire hydrant, light pole, traffic sign, barrier, fence, gutter flow, landscape, pipe flow, catch basin, manhole, elevation, ground elevation, concrete, and pavement.

LEGEND

WHEN USED IN THESE CIVIL DRAWINGS SHALL CONFORM TO THE ABOVE LIST, UNLESS NOTED OTHERWISE. OTHER SHEETS WITHIN THESE PLANS MAY CONTAIN SPECIFIC REFERENCES AND LEGENDS WITH INTERPRETATIONS INTENDED ONLY FOR THOSE SHEETS.

DISCLAIMER

THE PLAN CHECKING OF THESE IMPROVEMENTS BY THE CITY IS DIRECTED TO THE COMPLIANCE WITH CITY STANDARDS AND SPECIFICATIONS. IT IS THE SOLE RESPONSIBILITY OF THE ENGINEER OF RECORD TO ASSURE THE ACCURACY OF ELEVATIONS AND STATIONS FOR SEWER, WATER AND STORM DRAIN PIPING, CURB, GUTTER AND LOT GRADES SHOWN ON THESE PLANS.

OFFSITE SHEET INDEX

Table with 2 columns: Sheet Number and Sheet Title. Lists sheets SD/C0.2, SD/C1.0, SD/C8.1 and their titles: Offsite Coversheet & Notes, Bardsley Ave. Offsites, Civil Details.

DRAWING INDEX

Table with 2 columns: Drawing Number and Drawing Title. Lists drawings like SD/C0.2, SD/C1.0, SD/C8.1 and their titles.

ABBREVIATIONS

Table with 2 columns: Abbreviation and Full Name. Lists abbreviations like G, FO, CATV, T, E, W, SS, IRR, FH, etc. and their corresponding full names like Underground Gas, Underground Fiber Optic Cable, etc.

NOTES AND SPECIFICATIONS

NOTES AND SPECIFICATIONS
1) ALL WORK AND MATERIAL SHALL CONFORM TO THE LATEST CITY OF TULARE STANDARD DRAWINGS, SPECIFICATIONS, AND STANDARD OPERATING PROCEDURES.

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Mission Oak HS Aquatic Complex
Tulare Joint Union High School District
Tulare, CA

OFFSITE IMPROVEMENTS
OFFSITE COVERSHEET & NOTES
Drawing

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Table with 3 columns: No., Revision/Submission, Date. Shows revision history for the drawing.

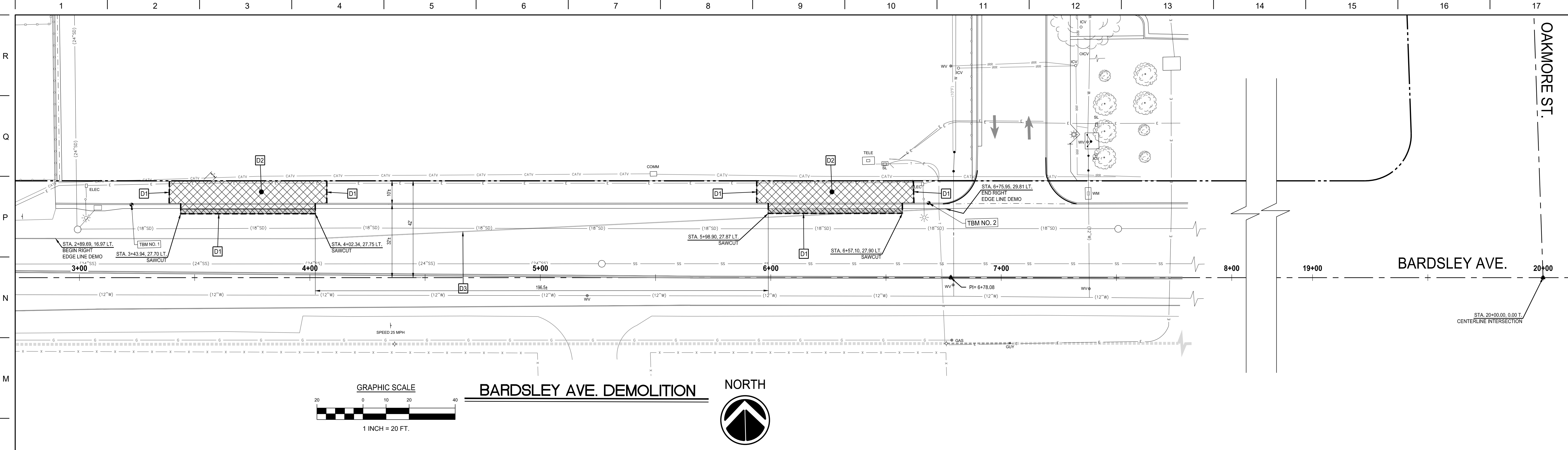
APPROVED SET
CITY OF TULARE
Engineering Division
Scale: NO SCALE
Project Number: 2180
Date: 10-24-22

(NOT FOR DSA APPROVAL)



CONSTRUCTION SET

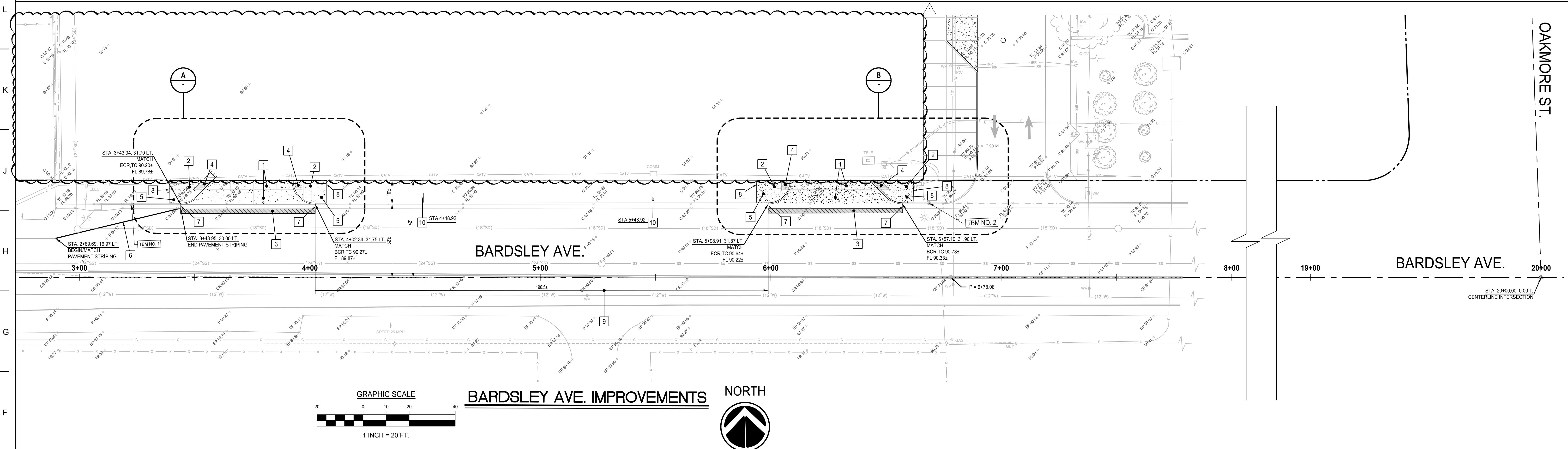
APPROVED BY THE STATE ARCHITECT
 APP: 02-190251, INC.
 REVIEWED FOR
 PLS ID: ACS 01
 DATE: 08/28/2023



- DEMOLITION NOTES** (THIS SHEET ONLY)
- REFER TO SHEET C0.2 FOR BENCHMARKS, GENERAL NOTES & INFORMATION.
 - INFRASTRUCTURE NOT NOTED FOR SALVAGE, REMOVAL, OR RELOCATION SHALL BE PROTECTED IN PLACE.
 - ITEMS NOTED TO BE SALVAGED SHALL BE REMOVED WITHOUT DAMAGING AND STORED UNTIL THEY ARE RE-INSTALLED AS SHOWN ON THE PLANS.
 - STRIPING & PAVEMENT MARKINGS NOTED TO BE REMOVED COMPLETELY BY LIGHTLY SPRINKLING.
 - ALL HOLES AND TRENCHES CREATED FROM INFRASTRUCTURE REMOVAL SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH PROJECT EARTHWORK AND TRENCHING REQUIREMENTS.
 - IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL ITEMS NOTED FOR REMOVAL WITH THE OWNER. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY DIMENSIONS FOR DEMOLITION SHOWN ON THIS PLAN WITH THE PROPERTY OWNER.
 - EXISTING STRUCTURES OR IMPROVEMENTS (I.E. UTILITY BOXES, VALVE BOXES, SIGNS, LIGHTS, ETC.) THAT ARE DAMAGED OR TEMPORARILY REMOVED DURING DEMOLITION SHALL BE REPLACED IN KIND, U/A/C.
 - CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN AND OBTAIN APPROVAL FROM THE CITY ENGINEER PRIOR TO COMMENCING CONSTRUCTION.

- LEGEND**
- RIGHT OF WAY
 - STREET CENTERLINE

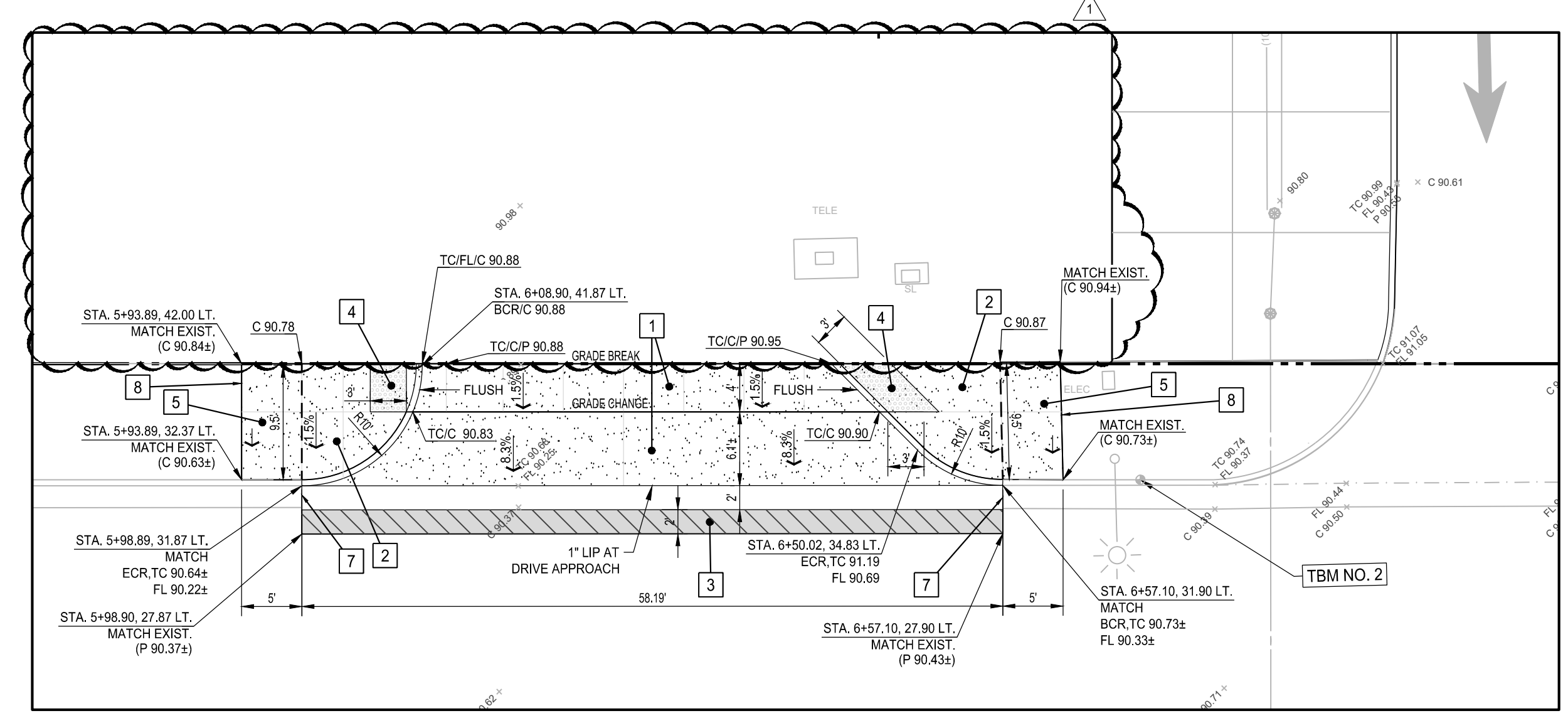
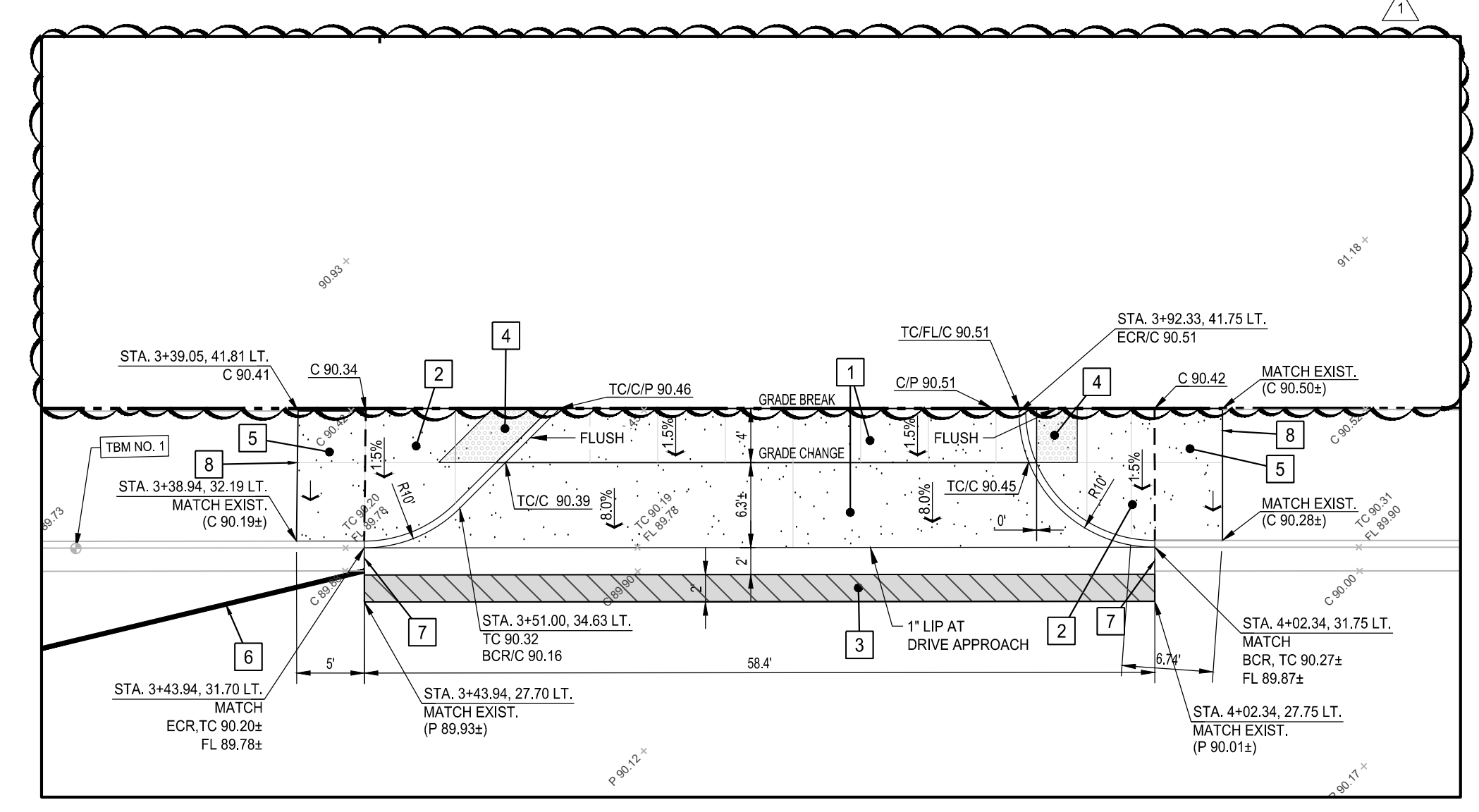
- DEMOLITION KEYNOTES** (THIS SHEET ONLY)
- D1** SAWCUT EDGE CONCRETE/ASPHALT TO A NEAT VERTICAL EDGE FOR CONCRETE REMOVAL.
SAWCUT LINE SHOWN THIS: - - - - -
 - D2** UNLESS NOTED OTHERWISE, DEMOLISH AND REMOVE ALL EXISTING SURFACE SITE IMPROVEMENTS (CONCRETE, ASPHALT PAVEMENT, CURBS, GUTTERS, ETC.) WITHIN DEMOLITION LIMITS.
SHOWN THIS: [Hatched Pattern]
 - D3** REMOVE 4" EDGE LINE STRIPING. SEE DEMO PLAN FOR LIMITS OF STRIPING REMOVAL.



- CONSTRUCTION NOTES** (THIS SHEET ONLY)
- REFER TO SHEET C0.2 FOR BENCHMARKS, GENERAL NOTES & INFORMATION.
 - PRIOR TO DOING ANY WORK WITHIN CITY RIGHT OF WAY, CONTRACTOR SHALL OBTAIN ENCROACHMENT PERMIT FROM THE CITY OF TULARE.
 - ALL WORK WITHIN CITY OF TULARE RIGHT-OF-WAY SHALL CONFORM TO THE CITY OF TULARE PUBLIC IMPROVEMENT STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE NOTED.
 - FIELD VERIFY ALL ELEVATIONS SHOWN WHERE EXISTING IMPROVEMENTS ABUT PROPOSED IMPROVEMENTS. IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES.
 - ALL DIMENSIONS SHOWN TO CURB ARE TO FACE OF CURB UNLESS OTHERWISE SHOWN OR NOTED.
 - FLOW LINE ELEVATION IS 0.5 BELOW TOP OF CURB UNLESS OTHERWISE SHOWN OR NOTED.
 - CROSS-SLOPES AT SIDEWALKS SHALL BE 1.5% UNLESS OTHERWISE SHOWN OR NOTED. IN NO CASE SHALL THE CROSS SLOPE EXCEED 2%.
 - GUTTER PAN AT BOTTOM OF ACCESSIBLE RAMPS SHALL BE WARPED TO HAVE A SLOPE NOT EXCEEDING 5.0% IN THE DIRECTION OF TRAVEL.
 - ADJUST ALL EXISTING MANHOLES, GATE VALVES, UTILITY BOXES, AND WATER METERS TO BE FLUSH WITH FINISH GRADES.

- LEGEND**
- BARDSLEY AVE. PAVEMENT REPAIR AT DRIVE APPROACH
 - RIGHT OF WAY
 - STREET CENTERLINE

- CONSTRUCTION KEYNOTES** (THIS SHEET ONLY)
- CONSTRUCT DRIVE APPROACH WITH 4' WIDE SIDEWALK. SEE DETAIL 12 AND CITY STANDARD DRAWING 2114 ON SHEET SD/C6.1.
 - CONSTRUCT 3' WIDE CITY STANDARD SIDEWALK. PUBLIC IMPROVEMENT STANDARD 4400; SEE DETAIL 25 ON SHEET SD/C6.1.
 - CONSTRUCT A.C. PAVING REPAIR AT DRIVE APPROACH. SEE DETAIL 12, 14 & CITY STANDARD B020 ON SHEET SD/C6.1.
 - FURNISH & INSTALL CITY STANDARD TRUNCATED DOME PANEL. PUBLIC IMPROVEMENT STANDARD 4179; SEE DETAIL 25 SHEET SD/C6.1.
 - CONSTRUCT SIDEWALK TRANSITION PANEL. SEE DETAIL 13 ON SHEET SD/C6.1.
 - INSTALL 4" WIDE "RIGHT EDGE LINE" 2018 CALTRANS REVISED STD. PLAN RSP A208, DETAIL 270; SEE DETAIL 22 ON SHEET SD/C6.1.
 - PROVIDE DOWELS AT NEW GUTTER TO EXISTING SIMILAR TO CITY STANDARD DETAIL 4911. SEE DETAIL 25 ON SHEET SD/C6.1.
 - PROVIDE DOWELS AT NEW SIDEWALK TO EXISTING PER CITY STANDARD DETAIL 4910 ON SHEET SD/C6.1.
 - PAINT CURB RED AND LABEL "NO PARKING" WITH WHITE LETTERING. PAINT MATERIALS TO COMPLY WITH SECTION 84-2.02 OF THE CALTRANS STANDARD SPECIFICATIONS, LATEST EDITION.
 - FURNISH & INSTALL R28(A) "NO PARKING ANY TIME" SIGN (MUTCD FIG. 2B-24). PROVIDE POST & FOOTING PER CITY STANDARD DETAIL 725 ON SHEET SD/C6.1. INSTALL POST & SIGN IN ACCORDANCE WITH MUTCD FIG. 2A-2, 2014 EDITION. CORNER THROUGH SIDEWALK AS REQUIRED.



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 979 N. BLACKSTONE
 TULARE, CALIFORNIA 93274
 (559) 898-5283

Consultant

Mission Oak HS Aquatic Complex
 Tulare Joint Union High School District
 Tulare, CA

Project

OFFSITE IMPROVEMENTS
 BARDSLEY AVE. OFFSITES

Drawing

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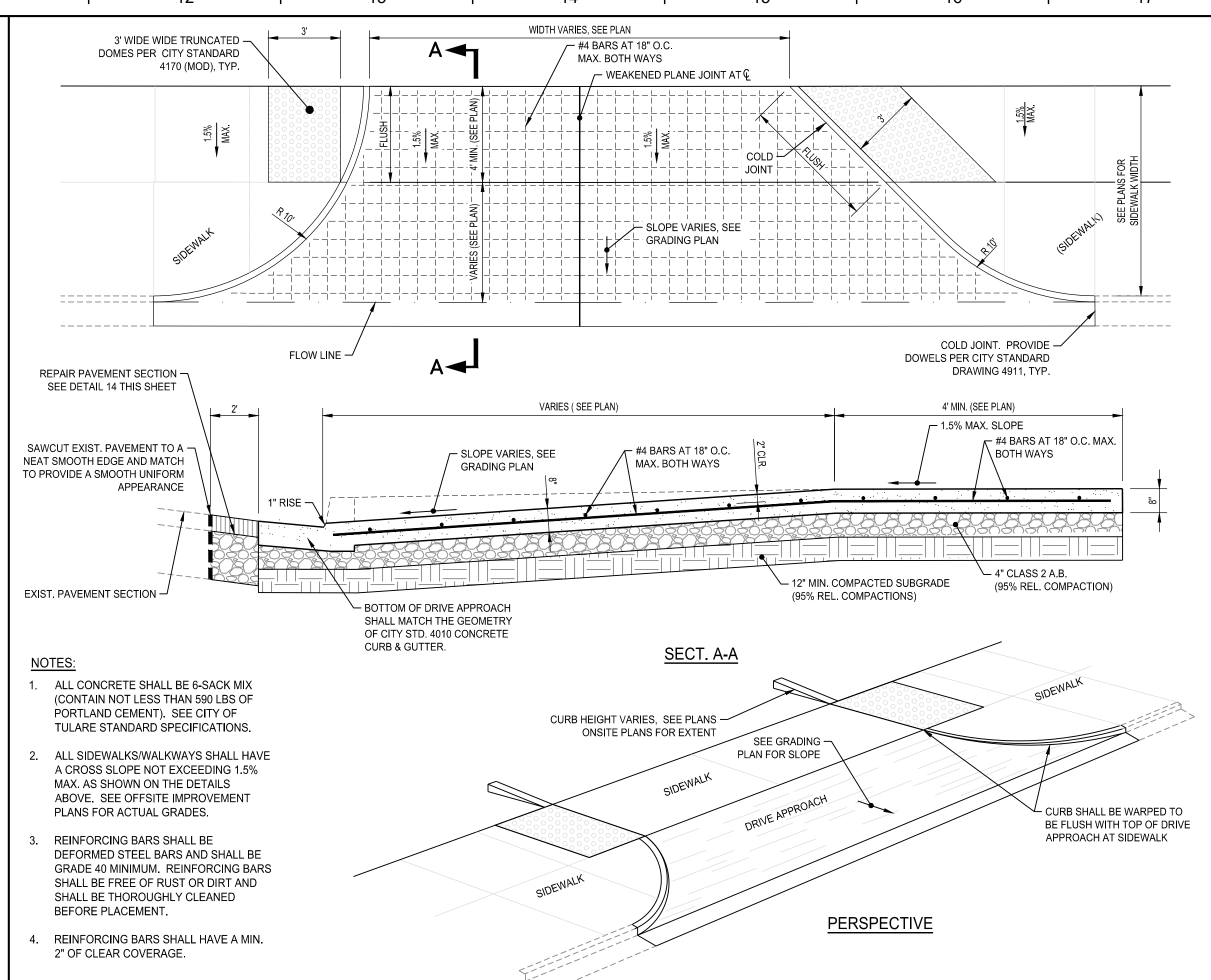
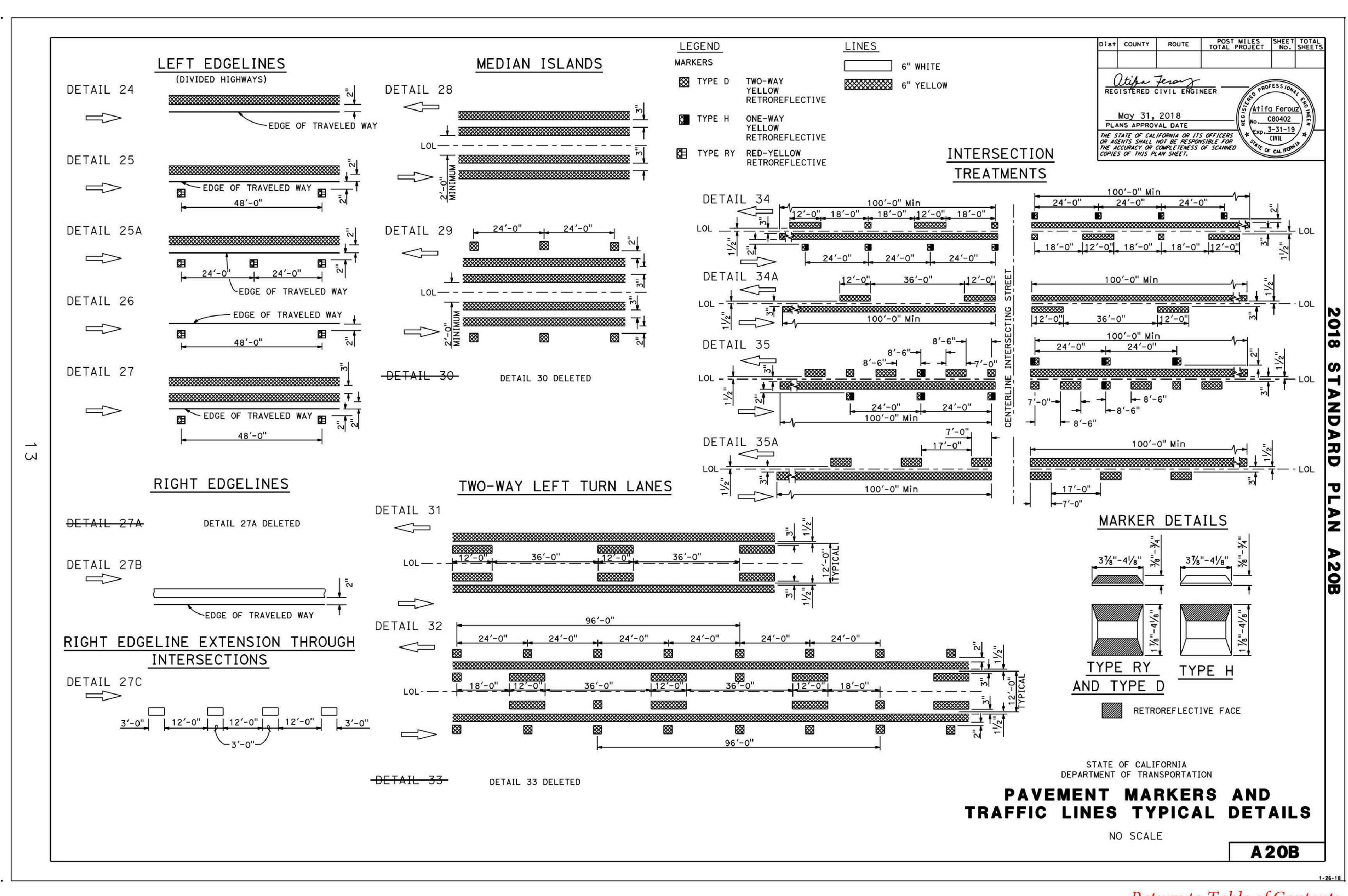
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No.	Revision/Submission	Date
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Project Number: 2180	Drawn By: WV	SD/C6.1
Date: 10-24-22	Checked By: AO	
	Reviewed By: AO	Sheet: 1 of 1

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IDENTIFICATION STAMP
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APP: 02-120251 INC.
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DATE: 01/31/2023

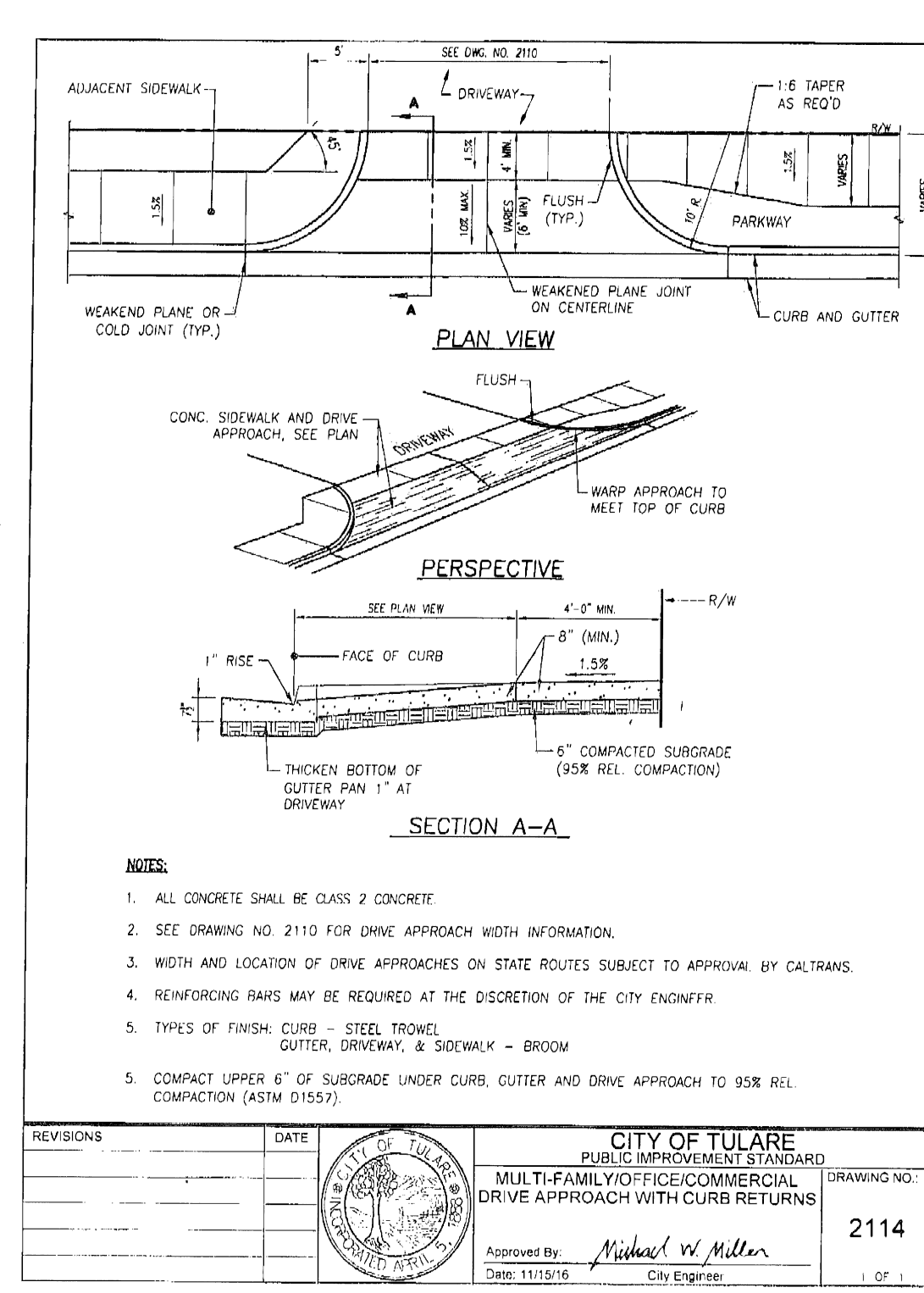
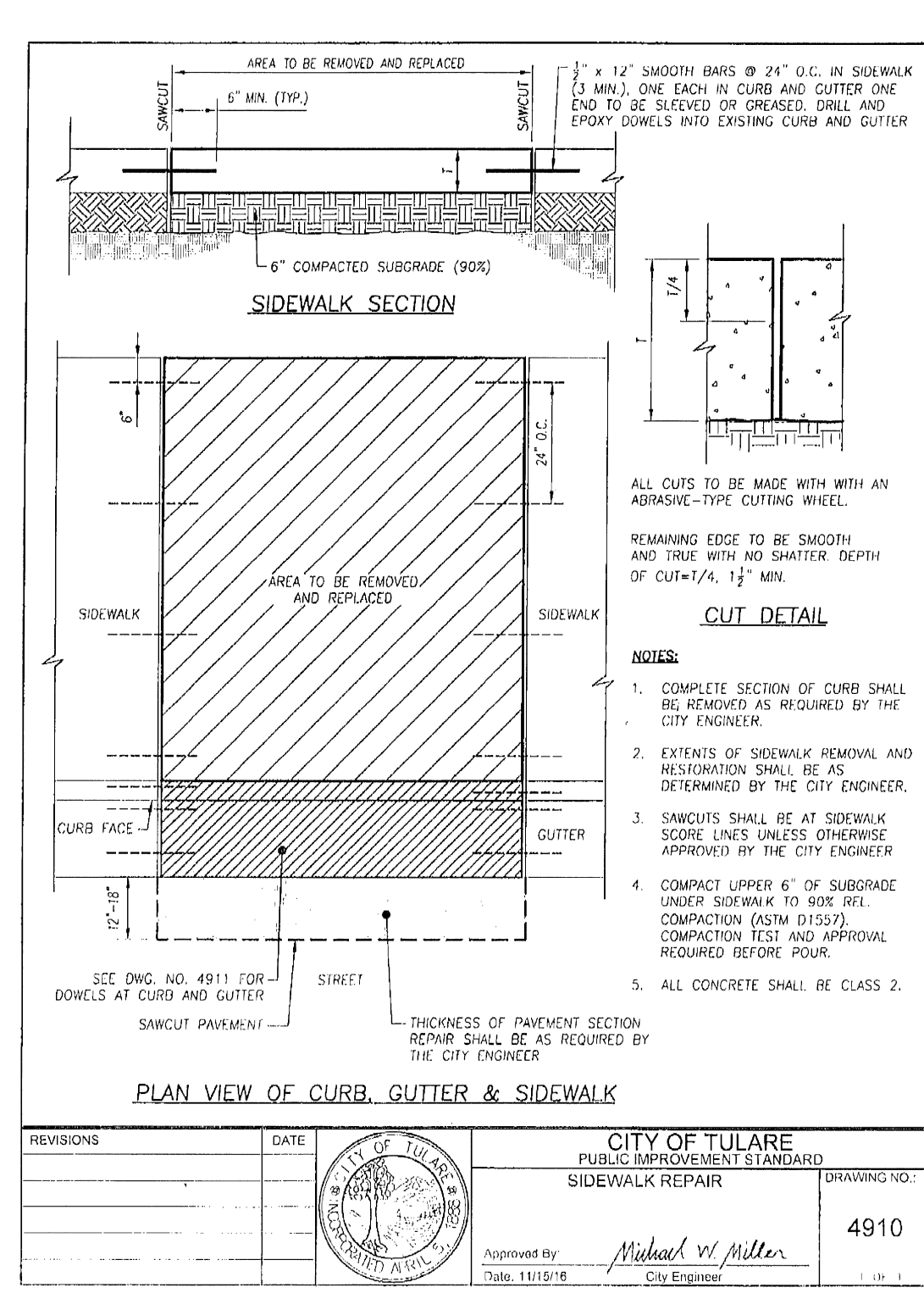
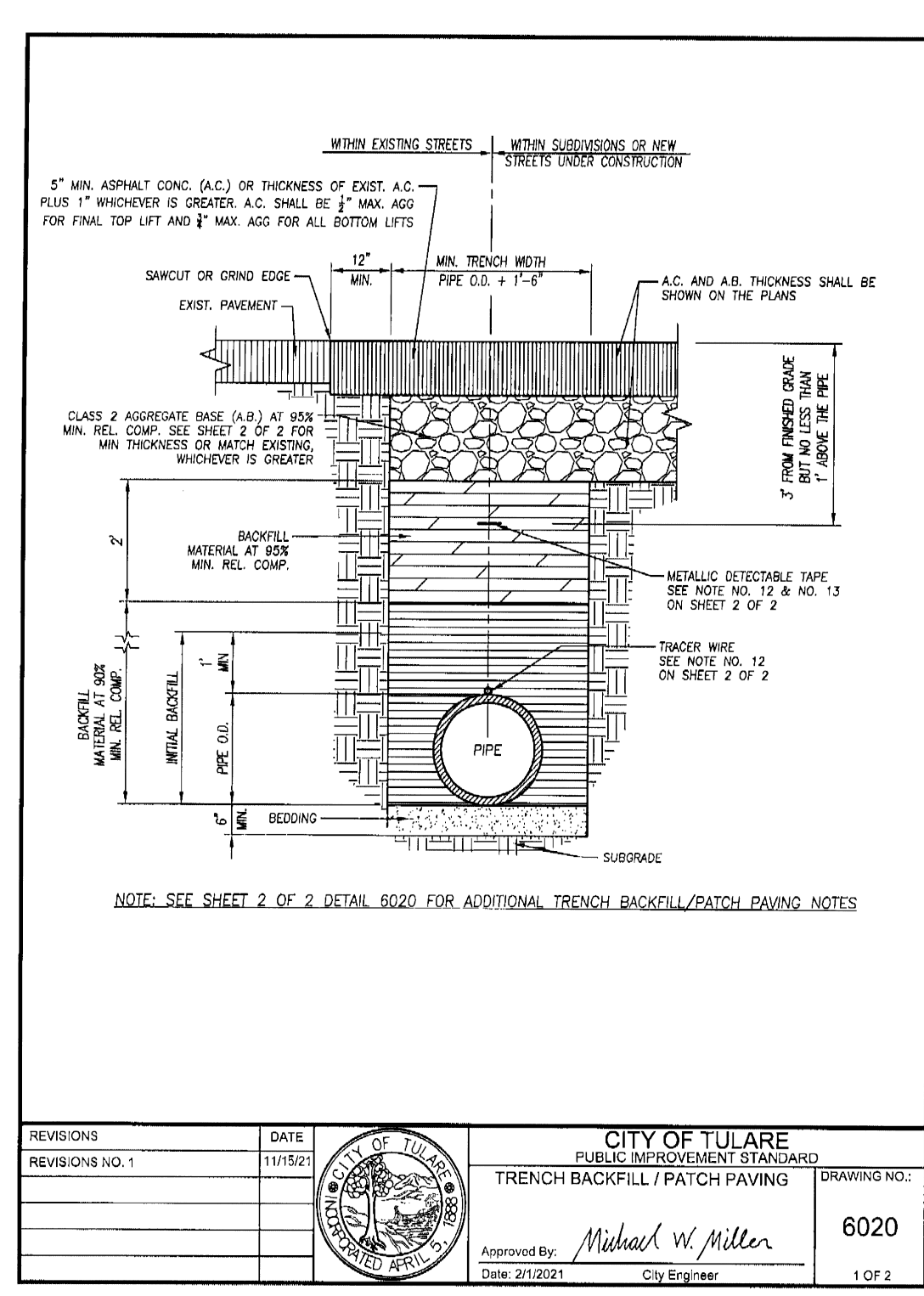
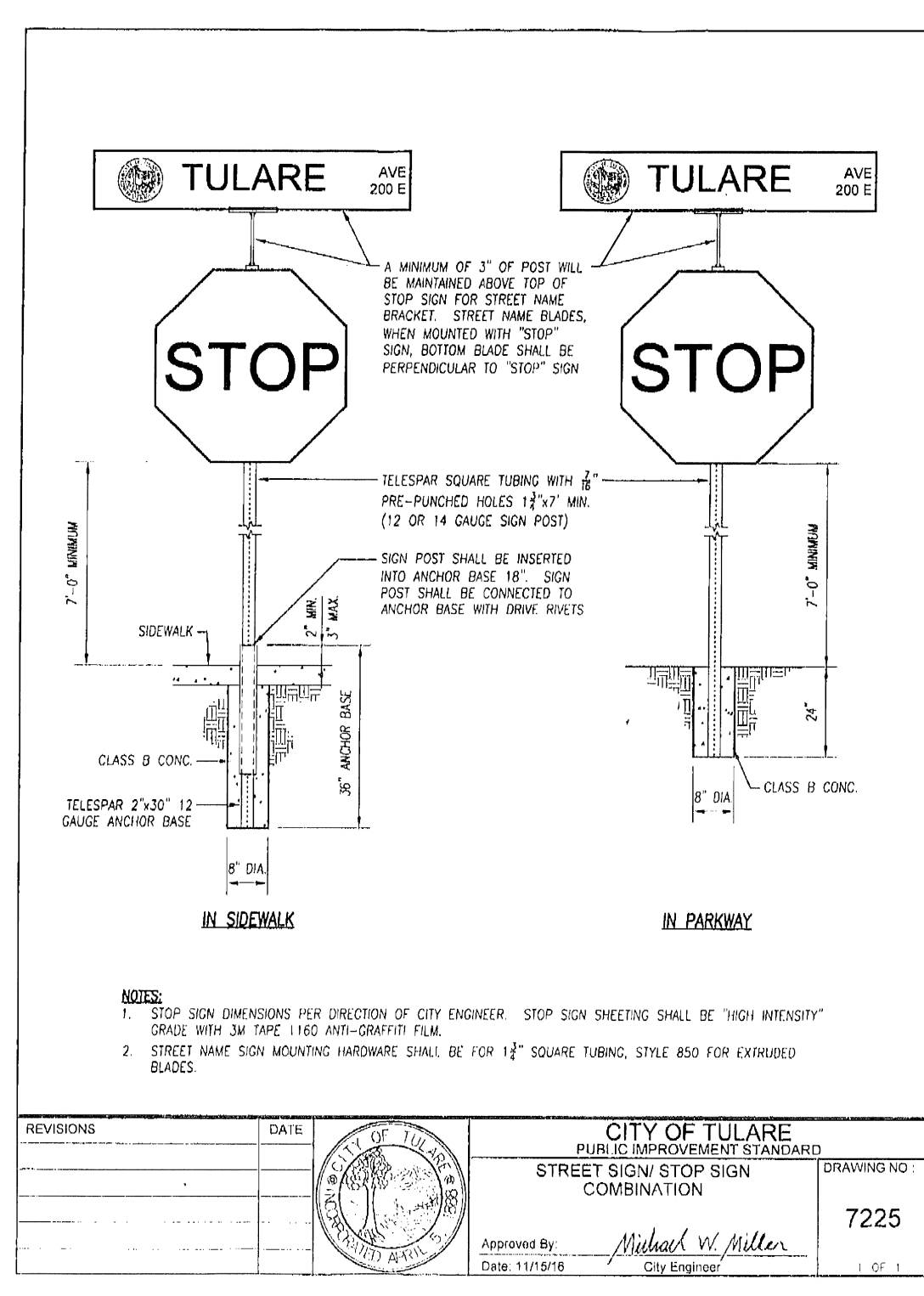
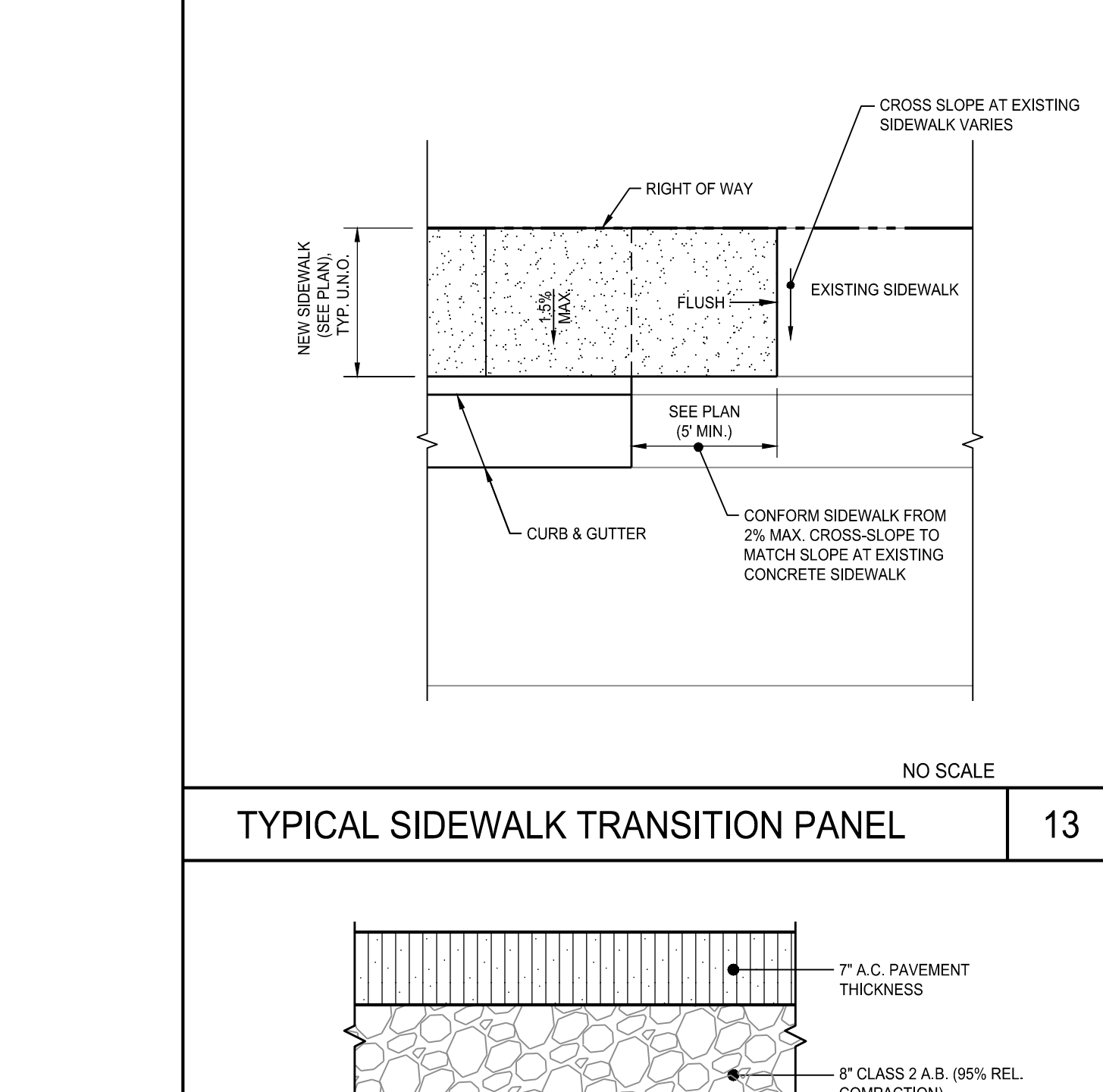
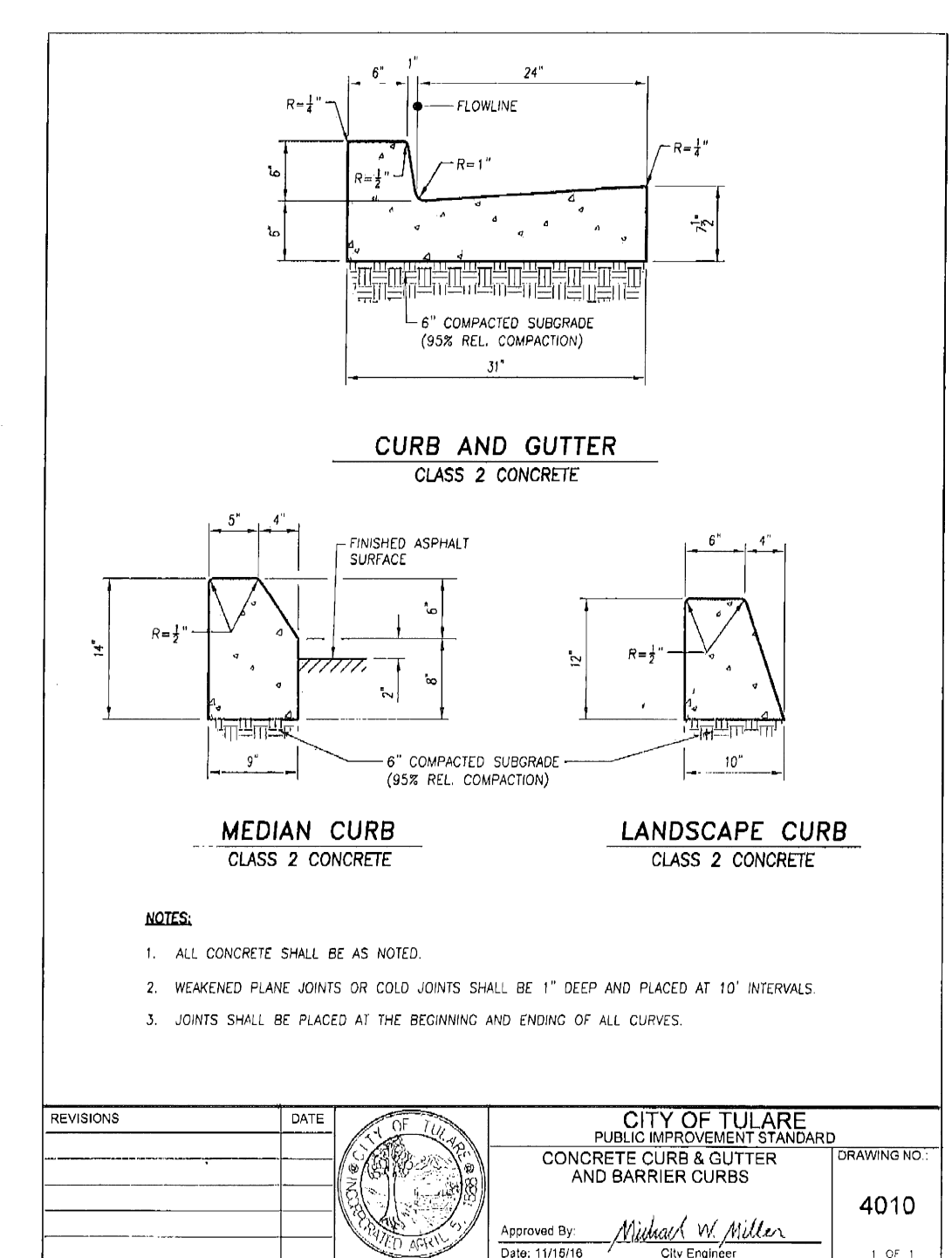
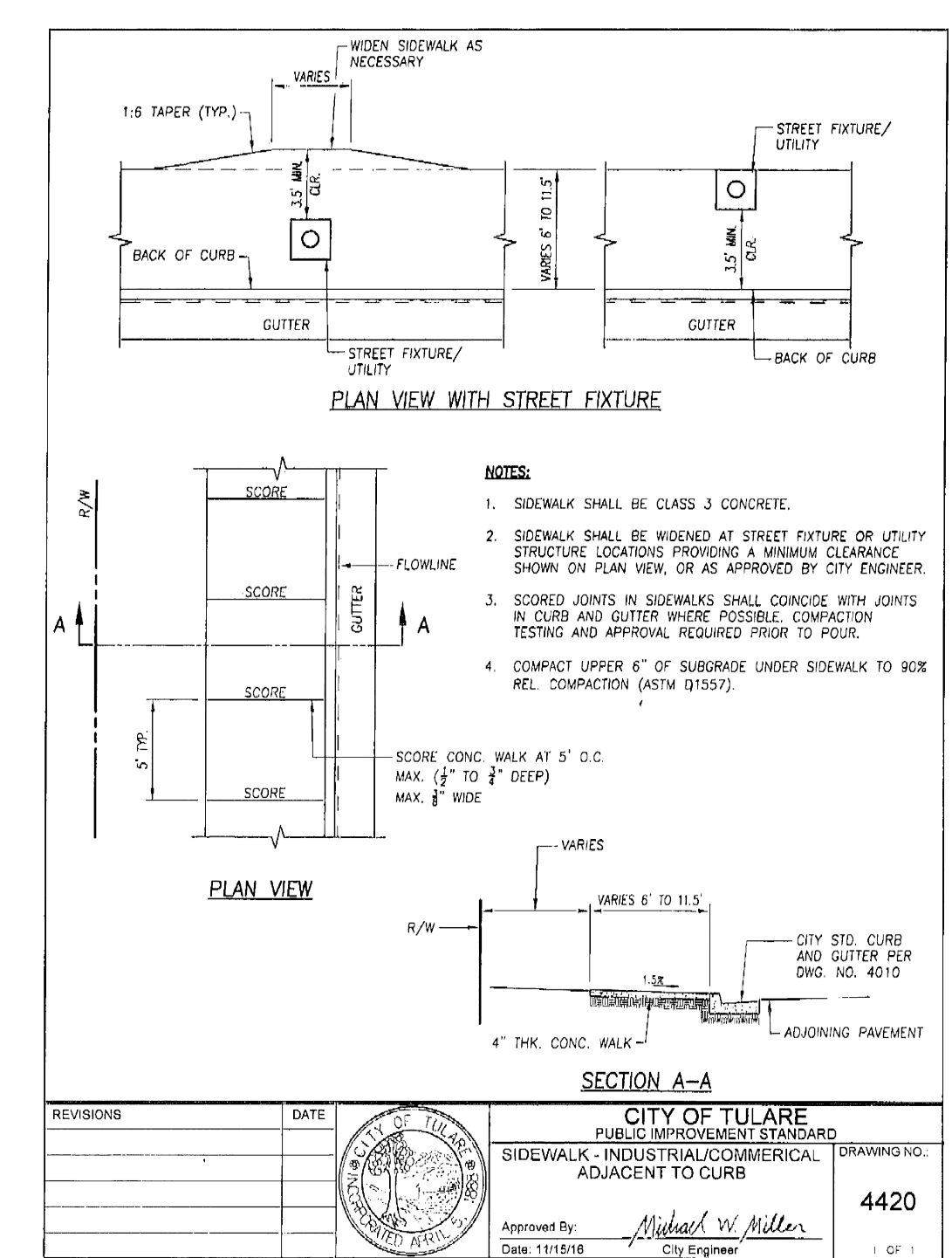
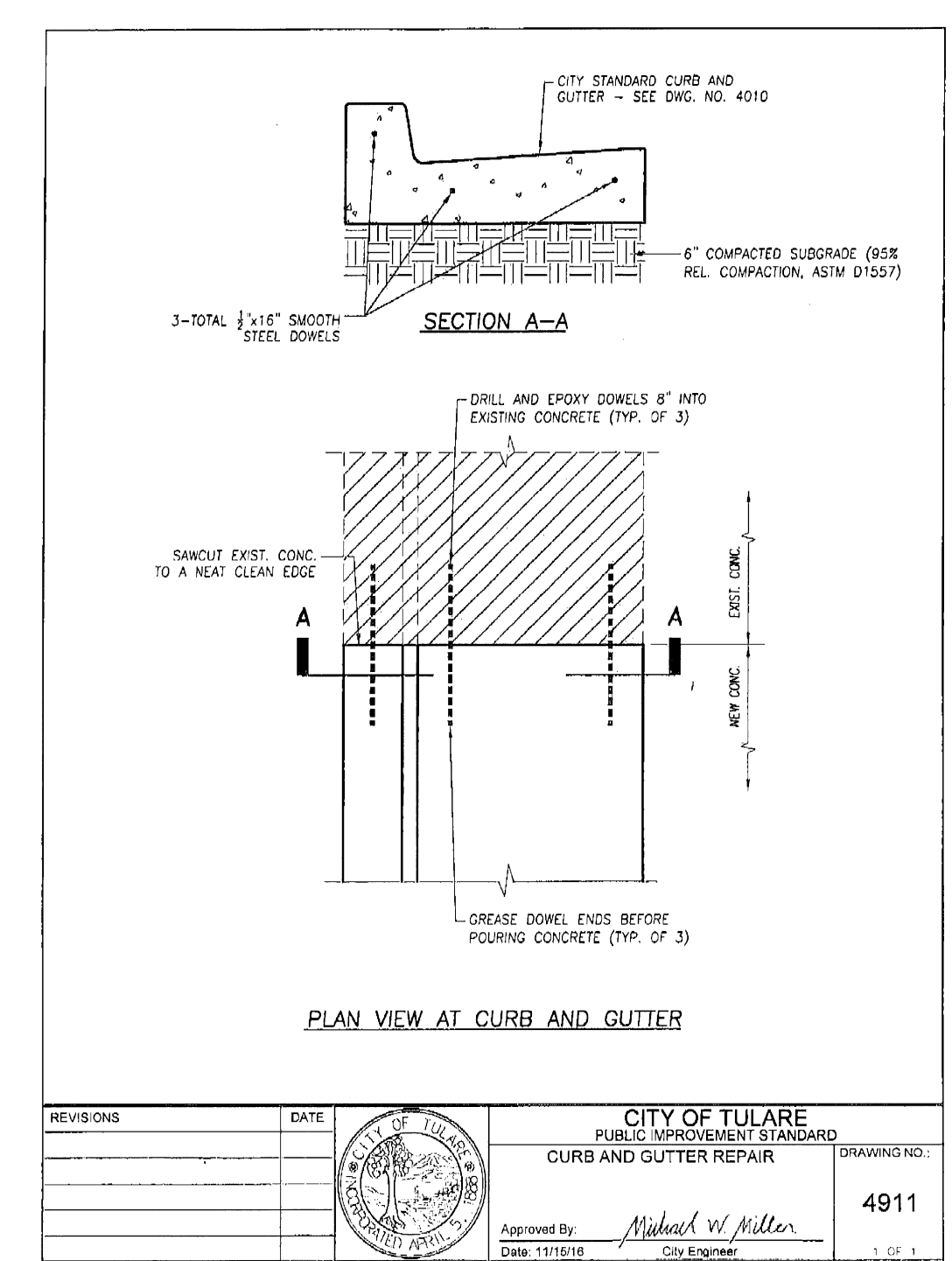
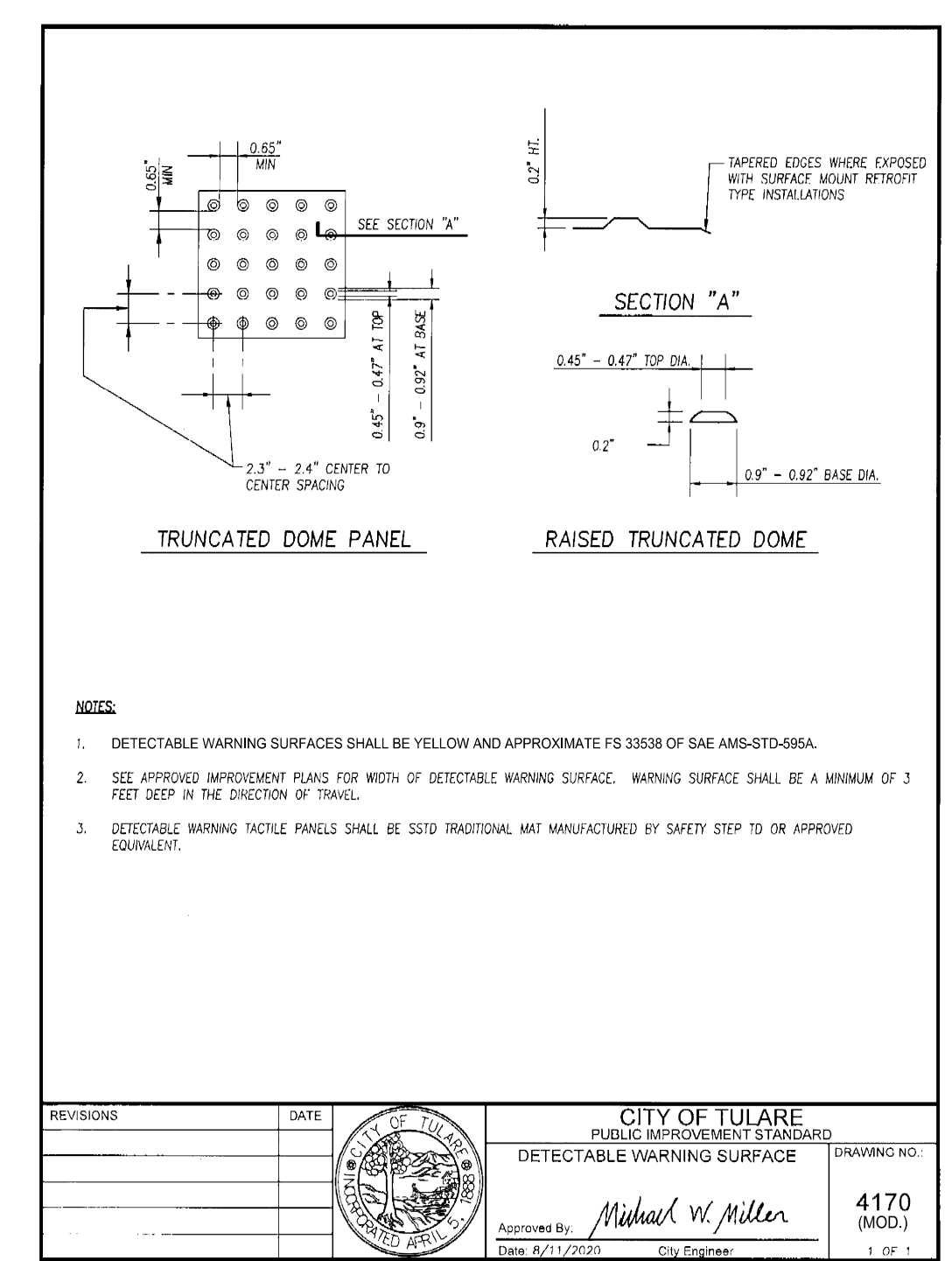


CALTRANS STANDARD PLANS

NO SCALE 32

DRIVE APPROACH

NO SCALE 12



CITY STANDARD DETAILS

NO SCALE 25

DRIVE APPROACH

NO SCALE 15

LANE ENGINEERS INC.
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10/25/2022
CIVIL

Mission Oak HS Aquatic Complex
Tulare Joint Union High School District
Tulare, CA

OFFSITE IMPROVEMENTS
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	Checked By: AO	
	Reviewed By: AO	

Project Number: 2180
Date: 10-24-22
Sheet: 1 of 1

APPROVED SET
CITY OF TULARE
Engineering Division

(NOT FOR DSA APPROVAL)

SD/C8.1

CONSTRUCTION SET

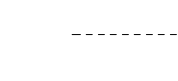
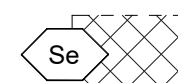








APPROVED BY THE STATE ARCHITECT
 APP: 02-120251, INC.
 REVIEWED FOR
 SS ID: FLS ID: ACS ID
 DATE: 08/28/2023

DSA File No.:
54-H11

DSA Application No.:
02-120251

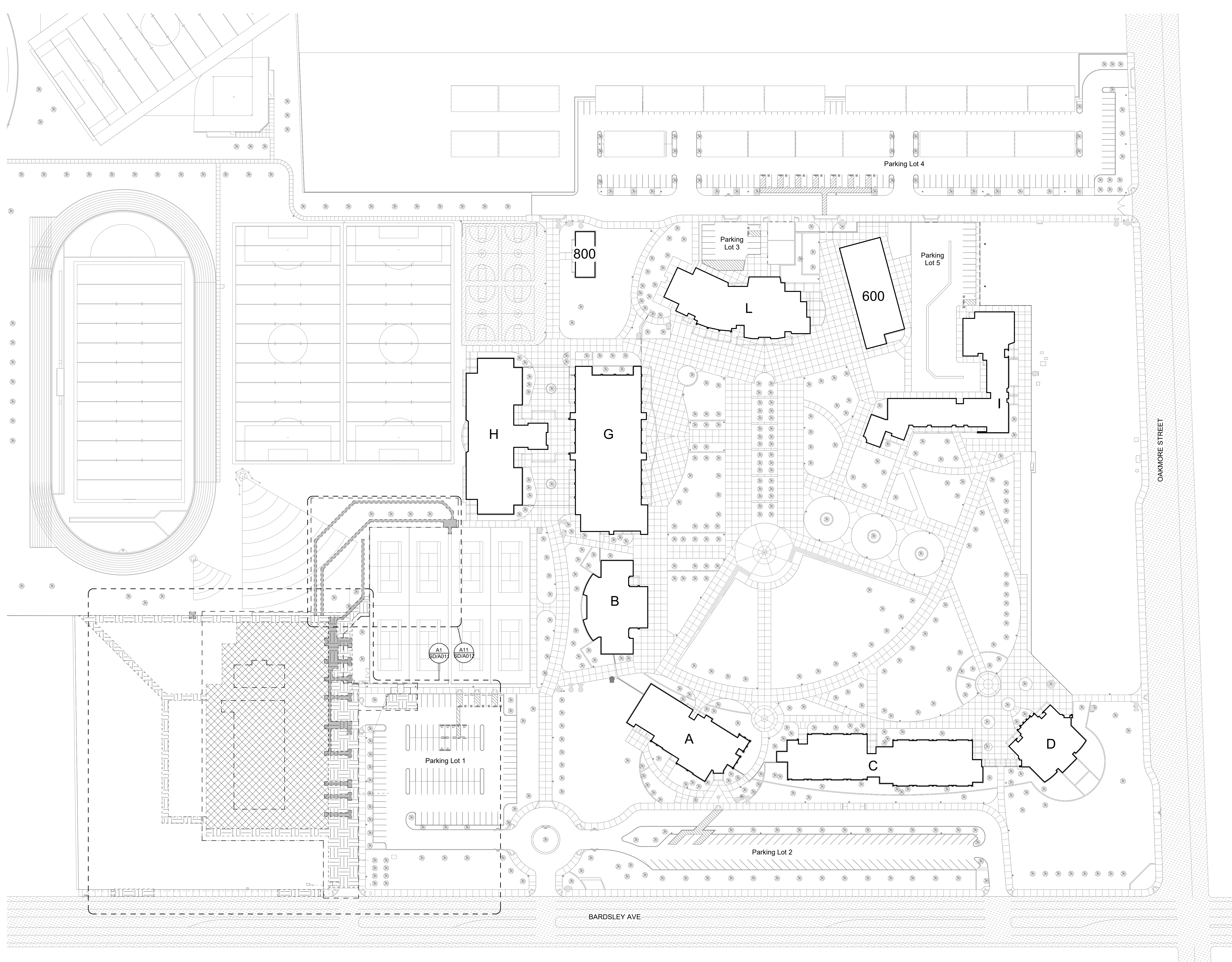
Agency Approval

SYMBOLS

-  SELECTIVE DEMOLITION, Existing Item and / or Area to be Removed and / or Relocated. (See Demolition Notes)
-  EARTHWORK, 5'-0" Over Excavation, Scarification and Compaction. The site has hydrocompacted soil. The pools, concrete pool deck and the pool buildings can not be supported on the hydrocompacted soil. Remove the upper five feet of the hydrocompacted soil and processed for use as engineered fill. See EARTHWORK Spec for additional requirements.
-  EARTHWORK, 4" Stripping, scarification and compaction. See Civil Drawings for additional requirements. Provide fine grading for new improvements.
-  Existing Chain Link Fence
-  SELECTIVE DEMOLITION, Areas of expected existing underground utilities that require careful trenching for new Utility Trenches. Excavate and expose (daylight) buried infrastructure. Coordinate limits, depths and widths with trade contractors. The areas indicated on this plan represents the approximate zones that might be required. The Contractor shall retain the services of a underground utility location service to both locate and map the existing underground utilities; and submit a as-built shop drawing. Any damaged utility shall be repaired by the contractor.
-  Existing Tree
-  CLEARING AND DEMOLITION, Clearing and Grubbing. Remove Existing Tree, stump and rootball down to a minimum depth of -3'-0" and all roots 1/4" and larger.
-  Demolition Note Symbol
-  Building Designation
-  Existing Building

GENERAL NOTES

1. Refer to Topographic and Site Utility Surveys for Additional Information
2. Demolition to be in Compliance with the California Fire Code, Chapter 14 - Fire Safety During Construction and Demolition
3. Refer to Civil, Plumbing, Mechanical and Electrical Drawings to verify the extent of the Demolition Required in Preparing for the Site development Scope of Work
4. All earthwork should extend a minimum of 5 feet beyond the perimeter of proposed improvements. Refer to the EARTHWORK Specification.
5. The geotechnical exploration and laboratory testing identified that hydrocompactive characteristics (Hard Pan) exist within the upper 5 feet of near surface soils. All areas within the limits of the Pool Fence and to the extents indicated in the plan shall be over excavated to a minimum of five (5) feet below the stripped soil, and 18" below the bottom of the pool slab and foundations.
6. Provide an underground utility location service to verify the locations of existing utilities indicated and on the Civil Drawings. All costs for utility location shall be paid for by the Contractor.



G18 Earthwork & Site Demolition Plan Legend

No Scale

Mission Oak HS Aquatic Complex
 Tulare Joint Union High School District
 Tulare, CA 93274

Project

SITE DEVELOPMENT

OVERALL SITE DEMOLITION PLAN

Drawing

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Architect

No.	Revision/Submission	Date
1	REVISION_01	05/31/2023

Revision

Designed By: MF
 Drawn By: FM
 Project Number: 2180
 Checked By: -
 Date: 03/28/2023
 Reviewed By: MF

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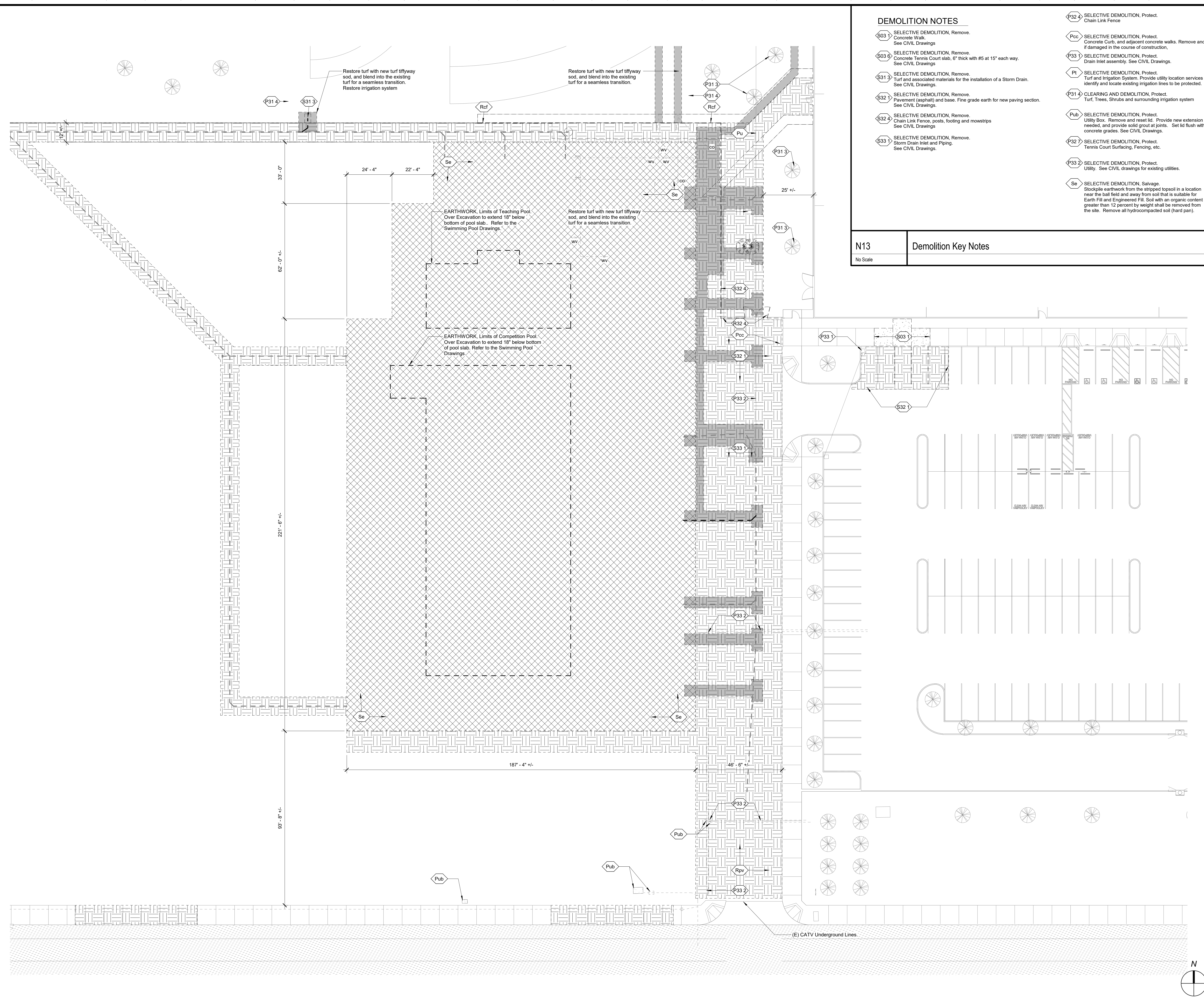
SD/A010

8/18/2023 4:28:38 PM e:\Users\alvin\Documents\180 Mission Oak HS Aquatic Complex_RD01_VZ2_A\invtv.nt

A1 Overall Site Demolition Plan
 1" = 60'-0"

CONSTRUCTION SET

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APP: 02-120251, INC.
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SS ID: PLS ID: ACS ID
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- ### DEMOLITION NOTES
- S03 1 SELECTIVE DEMOLITION, Remove. Concrete Walk. See CIVIL Drawings.
 - S03 2 SELECTIVE DEMOLITION, Remove. Concrete Tennis Court slab, 6" thick with #5 at 15" each way. See CIVIL Drawings.
 - S31 3 SELECTIVE DEMOLITION, Remove. Turf and associated materials for the installation of a Storm Drain. See CIVIL Drawings.
 - S32 1 SELECTIVE DEMOLITION, Remove. Pavement (asphalt) and base. Fine grade earth for new paving section. See CIVIL Drawings.
 - S32 4 SELECTIVE DEMOLITION, Remove. Chain Link Fence, posts, footing and mowstrips. See CIVIL Drawings.
 - S33 1 SELECTIVE DEMOLITION, Remove. Storm Drain Inlet and Piping. See CIVIL Drawings.
 - P32 4 SELECTIVE DEMOLITION, Protect. Chain Link Fence.
 - Pcc SELECTIVE DEMOLITION, Protect. Concrete Curb, and adjacent concrete walks. Remove and replace if damaged in the course of construction.
 - P33 1 SELECTIVE DEMOLITION, Protect. Drain Inlet assembly. See CIVIL Drawings.
 - Pl SELECTIVE DEMOLITION, Protect. Turf and Irrigation System. Provide utility location services to identify and locate existing irrigation lines to be protected.
 - P31 4 CLEARING AND DEMOLITION, Protect. Turf, Trees, Shrubs and surrounding irrigation system.
 - Pub SELECTIVE DEMOLITION, Protect. Utility Box. Remove and reset lid. Provide new extension rings as needed, and provide solid grout at joints. Set lid flush with new concrete grades. See CIVIL Drawings.
 - P32 7 SELECTIVE DEMOLITION, Protect. Tennis Court Surfacing, Fencing, etc.
 - P32 3 SELECTIVE DEMOLITION, Protect. Utility. See CIVIL drawings for existing utilities.
 - Se SELECTIVE DEMOLITION, Salvage. Stockpile earthwork from the stripped topsoil in a location near the ball field and away from soil that is suitable for Earth Fill and Engineered Fill. Soil with an organic content greater than 12 percent by weight shall be removed from the site. Remove all hydrocompacted soil (hard pan).

N13 Demolition Key Notes
No Scale

DSA File No.: 54-H11
DSA Application No.: 02-120251
Agency Approval

- ### SYMBOLS
- SELECTIVE DEMOLITION, Existing Item and/or Area to be Removed and/or Relocated. (See Demolition Notes)
 - EARTHWORK, 5'-0" Over Excavation, Scarification and Compaction. The site has hydrocompacted soil. The pools, concrete pool deck and the pool buildings can not be supported on the hydrocompacted soil. Remove the upper five feet of the hydrocompacted soil and processed for use as engineered fill. See EARTHWORK Spec for additional requirements.
 - EARTHWORK, 4" Stripping, scarification and compaction. See Civil Drawings for additional requirements. Provide fine grading for new improvements.
 - Existing Chain Link Fence
 - SELECTIVE DEMOLITION, Areas of expected existing underground utilities that require careful fencing for new Utility Trenches. Excavate and expose (daylighting) buried infrastructure. Coordinate limits, depths and widths with trade contractors. The areas indicated on this plan represents the approximate zones that might be required. The Contractor shall retain the services of a underground utility location service to both locate and map the existing underground utilities, and submit a as-built shop drawing. Any damaged utility shall be repaired by the contractor.
 - Existing Tree
 - CLEARING AND DEMOLITION, Clearing and Grubbing. Remove Existing Tree, Remove Tree, stump and rootball down to a minimum depth of -3'-0" and all roots 1/4" and larger.
 - Demolition Note Symbol
 - Building Designation
 - Existing Building

- ### GENERAL NOTES
1. Refer to Topographic and Site Utility Surveys for Additional Information
 2. Demolition to be in Compliance with the California Fire Code, Chapter 14 - Fire Safety During Construction and Demolition
 3. Refer to Civil, Plumbing, Mechanical and Electrical Drawings to verify the extent of the Demolition Required in Preparing for the Site development Scope of Work
 4. All earthwork should extend a minimum of 5 feet beyond the perimeter of proposed improvements. Refer to the EARTHWORK Specification.
 5. The geotechnical exploration and laboratory testing identified that hydrocompacted characteristics (Hard Pan) exist within the upper 5 feet of near surface soils. All areas within the limits of the Pool Fence and to the extents indicated in the plan shall be over excavated to a minimum of five (5) feet below the stripped soil, and 18" below the bottom of the pool slab and foundations.
 6. Provide an underground utility location service to verify the locations of existing utilities indicated and on the Civil Drawings. All costs for utility location shall be paid for by the Contractor.

G18 Earthwork & Site Demolition Plan Legend
No Scale

Mission Oak HS Aquatic Complex
Tulare Joint Union High School District
Tulare, CA 93274 Project

SITE DEVELOPMENT
SITE DEMOLITION PLAN & EARTHWORK
Drawing

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Architect

No.	Revision/Submission	Date
1	REVISION 01	05/31/2023

Revision
Designed By: MF Copyright 2022 Darden Architects
Scale: 1" = 20'-0" Drawn By: FM
Project Number: 2180 Checked By: -
Date: 03/28/2023 Reviewed By: MF

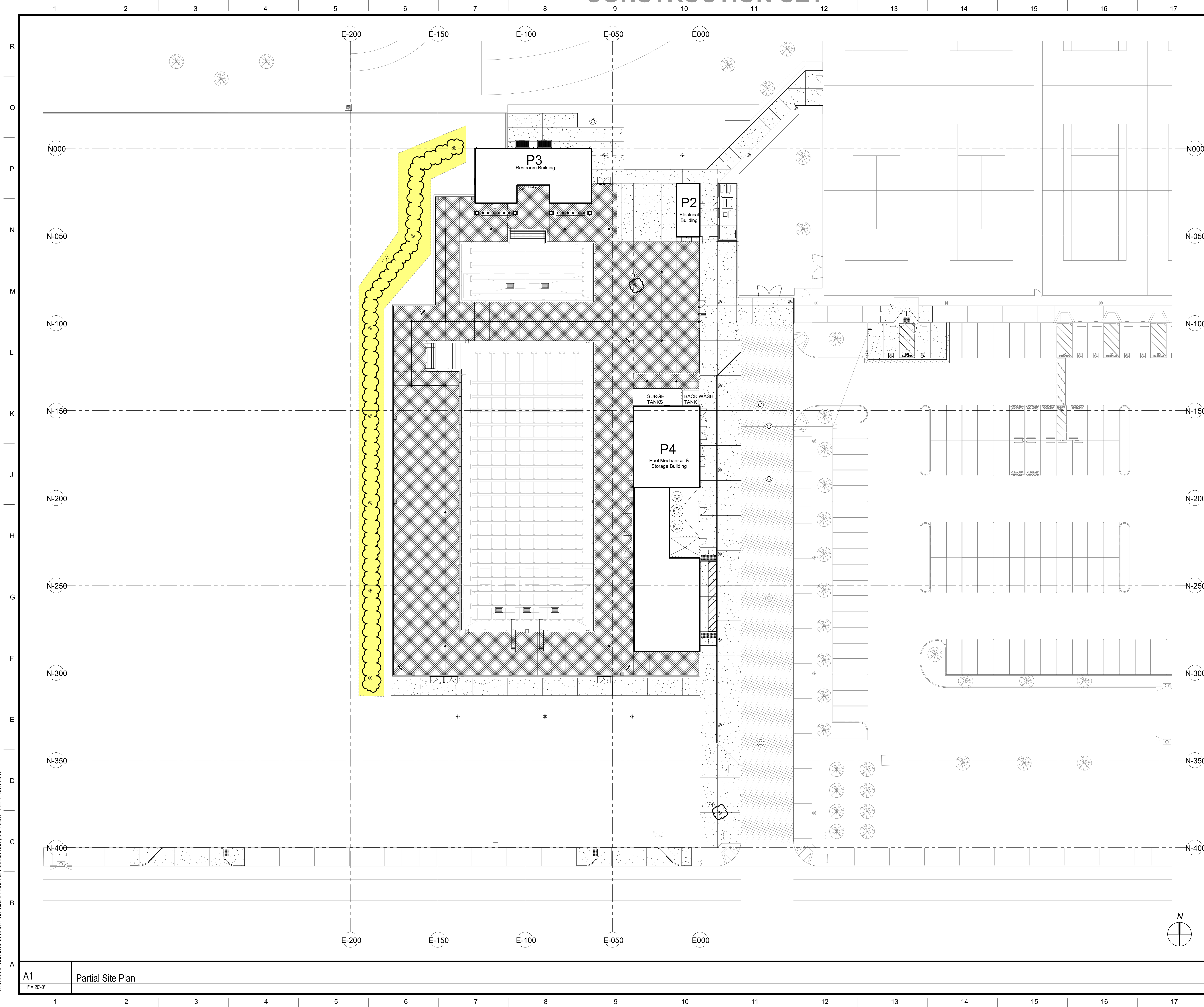
SD/A011

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A1 Partial Site Demolition Plan
1" = 20'-0"

CONSTRUCTION SET

APPROVED
BY THE STATE ARCHITECT
APP: 02-120251, INC.
REVISED FOR
SS ID: PLS ID: ACS ID
DATE: 05/28/2023



DSA File No.: 54-H11

DSA Application No.: 02-120251

Agency Approval

SYMBOLS

	ELECTRICAL, Pole Light Fixture
	ELECTRICAL, Sports Lighting, See Electrical

NOTES

1) See ELECTRICAL SDE101 & SDE102 for More Information

J18	Site Plan Legend
No Scale	

Mission Oak HS Aquatic Complex
Tulare Joint Union High School District
Tulare, CA 93274 Project

SITE DEVELOPMENT
SITE LIGHTING Drawing

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No.	Revision/Submission	Date
1	REVISION_01	05/31/2023

Revision

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Scale: 1" = 20'-0" Drawn By: Author
Project Number: 2180 Checked Checker
Date: 03/28/2023 Review/Approver

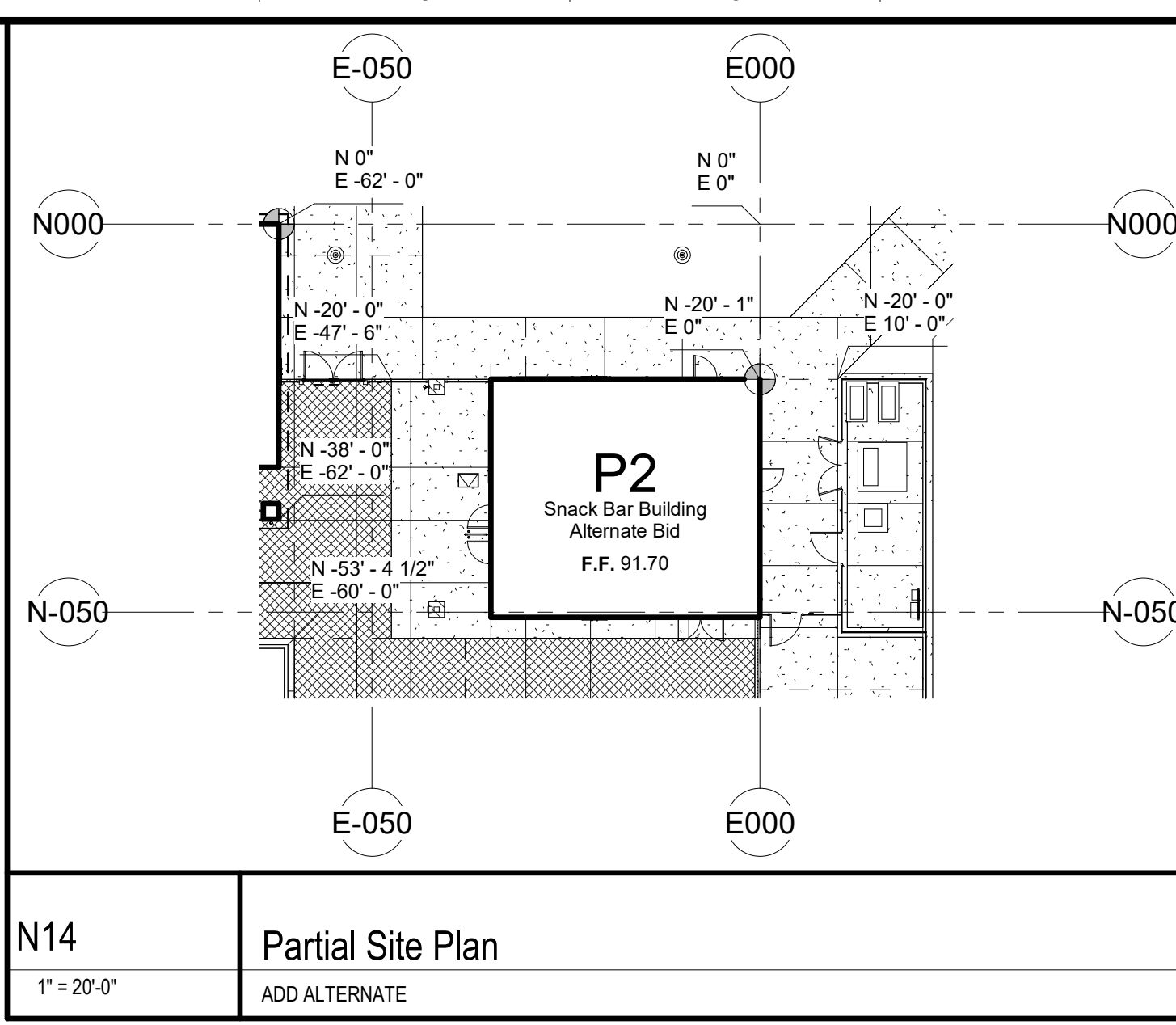
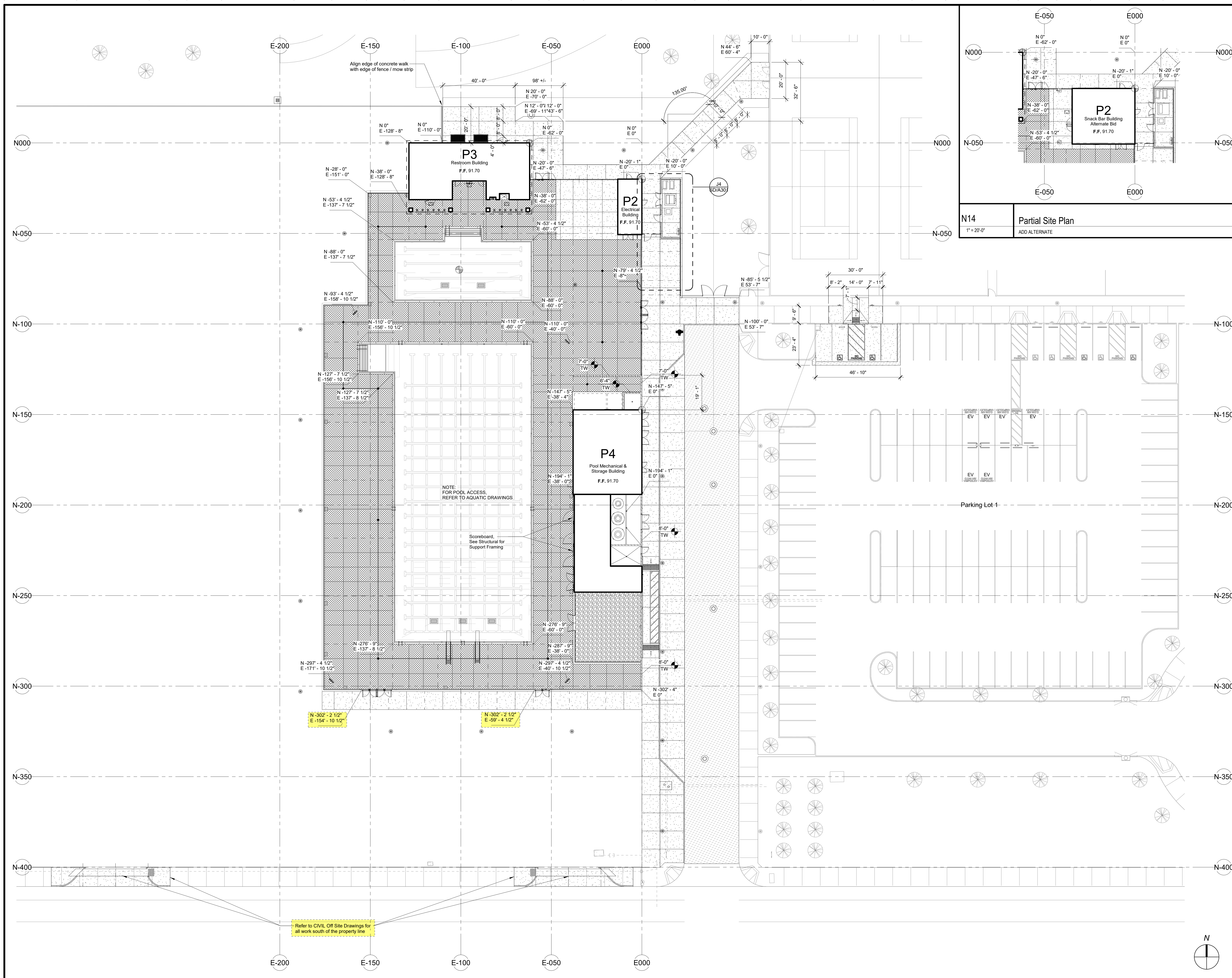
SD/A105

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A1 Partial Site Plan
1" = 20'-0"

CONSTRUCTION SET

APPROVED
 BY THE STATE ARCHITECT
 APP: 02-120251, INC.
 REVIEWED FOR
 FLS ID ACS ID
 DATE 08/28/2023



DSA File No.: 54-H11
 DSA Application No.: 02-120251
 Agency Approval

SYMBOLS

	PAVEMENT, Asphalt Paving and Aggregate Base. See Civil Plans for Paving Section and compacted subgrade requirements.
	PAVEMENT, Heavy Duty Asphalt Paving and Aggregate Base. See Civil Plans for Paving Section and compacted subgrade requirements.
	CAST-IN-PLACE CONCRETE, 4" Concrete Walk over 6" 90% Compacted Fill. See Civil Drawings for Grades.
	CAST-IN-PLACE CONCRETE, Pool Deck Concrete Walk. See Pool Drawings for details and grading.
	SELECTIVE DEMOLITION. Areas of sensitive trenching for Utility Trenches and areas of congestion and existing underground utilities, that require trenching. Provide utility location service and shop drawings. The areas indicated on this plan represents the approximate zones that might be required. Actual site conditions will define other areas required.
	PAVEMENT, Crushed Stone Surfacing. Sub-grade preparation, with Geotextile Fabric, Stabilized DG 4 inches and compacted with a roller to a smooth surface. Soil Binder by Stabilizer Solutions Inc.
	PAINTING, Paint Concrete Curb vertical face and horizontal top with Red Paint, and with White Letters. Letters to be 4" tall and spaced 25-feet apart stating "NO PARKING - FIRE LANE".
	PAINTING, Paint Concrete Curb vertical face and horizontal top with White Paint, and with Black Letters. Letters to be 4" tall and spaced 25-feet apart stating "BUS LOADING AND PARKING".
	PAINTING, Paint Concrete Curb vertical face and horizontal top with White Paint, and with Black Letters. Letters to be 4" tall and spaced 25-feet apart stating "5-MINUTE DROP OFF ZONE".

	Building Outline		Finish Grade Contour
	Property Line		STORM DRAINAGE, Catch Basin or Drain Box
	STORM DRAINAGE See CIVIL Drawings		STORM DRAINAGE, Drain Box
	Pipe/Utility		STORM DRAINAGE, Drain Inlet
	Covered Area		STORM DRAINAGE, Trench Drain
	Grade Break		STORM DRAINAGE, Trench Drain
	Existing Drainage Swale		PLUMBING, Fire Hydrant
	General Direction of Slope		PLUMBING, Fire Department Connection (Siamese)
	Slope (DN)		PLUMBING, Post Indicator Valve
	Site Tombstone		PLUMBING, Clean Out
	ELECTRICAL Existing Light Pole		CIVIL, Sewer Clean Out
	Site Opening. Refer to Site Opening Schedule		PLUMBING, Shut Off Valve
	ELECTRICAL Existing Light Pole		ELECTRICAL, Pole Light Fixture

ABBREVIATIONS

(E)	Existing	FF	Finish Floor	SD	Storm Drain
AC	Air Conditioning System	FG	Finish Grade	SL	Site Lighting
AD	Area Drain, (See Plumbing)	FL	Flow Line	SL	Street Lighting
BW	Back of Walk	FMFCD	Fresno Metropolitan Flood Control District	S	Signal
C	Concrete	GT	Gutter	SS	Sanitary Sewer
CB	Catch Basin	FS	Floor Sink	TC	Top of Bench
CJ	Control Joint	G	Gas	TB	Top of Curb
CM	Communications	GT	Gutter	TD	Trench Drain
COB	Clean Out Box	GB	Grade Break	TELE	Telephone
COMM	Communications	RG	Rough Grade	TG	Top of Grade
CW	Cold Water	HFG	High Pressure Gas	TF	Top of Fence
DB	Drain Box	HL	Hydronics Line	TL	Top of Lid
DI	Drain Inlet	ICV	Irrigation Control Valve	TLB	Top of Light Base
DS	Drainage Swale	MH	Manhole	TW	Top of Wall
EMS	Energy Management System	MS	Mow Strip	Typ	Typical
E	Electrical Power	OC	On Center	UNO	Unless Noted
EJ	Expansion Joint, 1/2"	P	Pavement	UNO	Unless Noted
FP	Fire Protection	P1-P4	Electrical Utility Box	VG	Valley Gutter
F	Floor Drain	PIV	Post Indicator Valve	W	Waste
FD	Fire Dept Connection	PL	Planter	WV	Water Valve
R	Radius	R	Radius		
RWL	Rain Water Leader				

- ### NOTES
- CAST-IN-PLACE CONCRETE, all concrete walk joints shall be expansion joints unless otherwise noted. Provide expansion joints where walk abuts other site elements.
 - For PLUMBING, See Plumbing Drawings; ELECTRICAL, See Electrical Drawings.
 - For Vertical Controls of new utilities, See Detail J14 SD/A306
 - IDENTIFYING DEVICES, For Site Signage refer to A1 SD/A270 and to Specifications
 - CAST-IN-PLACE CONCRETE, Concrete Apron. Provide concrete apron at all utility boxes. See Detail L6 SD/A306

Site Plan Legend

No Scale

Mission Oak HS Aquatic Complex
 Tulare Joint Union High School District
 Tulare, CA 93274 Project

SITE DEVELOPMENT
 PARTIAL SITE DIMENSION PLAN
 Drawing

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No.	Revision/Submission	Date
1	REVISION 01	05/31/2023

Revision

Designed By:	MF	Copyright	2022 Darden Architects
Scale:	1" = 20'-0"	Drawn By:	FM
Project Number:	2180	Checked By:	-
Date:	03/28/2023	Reviewed By:	MF

SD/A201

8/18/2023 4:29:06 PM
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A1 Partial Site Plan
 1" = 20'-0"

CONSTRUCTION SET

APPROVED BY THE STATE ARCHITECT
APP: 02-120251, INC.
REVISED FOR
SS ID: FLS ID: ACS ID
DATE: 08/28/2023

DSA File No.: 54-H11
DSA Application No.: 02-120251
Agency Approval

SYMBOLS

	PAVEMENT, Asphalt Paving and Aggregate Base. See Civil Plans for Paving Section and compacted subgrade requirements.
	PAVEMENT, Heavy Duty Asphalt Paving and Aggregate Base. See Civil Plans for Paving Section and compacted subgrade requirements.
	CAST-IN-PLACE CONCRETE, 4" Concrete Walk over 6" 90% Compacted Fill. See Civil Drawings for Grades.
	CAST-IN-PLACE CONCRETE, Pool Deck Concrete Walk. See Pool Drawings for details and grading.
	SELECTIVE DEMOLITION. Areas of sensitive trenching for Utility Trenches and areas of congestion and existing underground utilities, that require trenching. Provide utility location service and shop drawings. The areas indicated on this plan represents the approximate zones that might be required. Actual site conditions will define other areas required.
	PAVEMENT, Crushed Stone Surfacing. Sub-grade preparation, with Geotextile Fabric, Stabilized DG 4 inches and compacted with a roller to a smooth surface. Soil Binder by Stabilizer Solutions Inc.
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	Building Outline		Finish Grade Contour
	Property Line		STORM DRAINAGE, Catch Basin or Drain Box
	STORM DRAINAGE		STORM DRAINAGE, Drain Box
	Pipe/Utility		STORM DRAINAGE, Drain Inlet
	Covered Area		STORM DRAINAGE, Trench Drain
	Grade Break		STORM DRAINAGE, Trench Drain
	Existing		PLUMBING, Fire Hydrant
	Drainage Swale		PLUMBING, Fire Department Connection (Siamese)
	Slope (DN)		PLUMBING, Post Indicator Valve
	Electrical, Existing Light Pole		PLUMBING, Clean Out
	Site, Tombstone		CIVIL, Sewer Clean Out
	Electrical, Sports Lighting		PLUMBING, Shut Off Valve
	Opening Group No. Refer to Site Opening Schedule		Electrical, Pole Light Fixture

ABBREVIATIONS

(E) Existing	FF Finish Floor	SD Storm Drain
AC Air Conditioning System	FG Finish Grade	SL Site Lighting
AD Area Drain, (See Plumbing)	FL Flow Line	SIL Street Lighting
BW Back of Walk	FMFCD Fresno Metropolitan Flood Control District	S Signal
C Concrete	FS Floor Sink	SS Sanitary Sewer
CB Catch Basin	G Gas	TB Top of Bench
CJ Control Joint	GT Gutter	TC Top of Curb
CM Communications	GB Grade Break	TD Trench Drain
COB Clean Out Box	RG Rough Grade	TELE Telephone
COMM Communications	HFG High Pressure Gas	TG Top of Grade
CW Cold Water	HL Hydronics Line	TF Top of Fence
DB Drain Box	ICV Irrigation Control Valve	TL Top of Lid
DI Drain Inlet	MH Manhole	TLB Top of Light Base
DS Drainage Swale	MS Mow Strip	TW Top of Wall
EMS Energy Management System	OC On Center	Typ Typical
E Electrical Power	P Pavement	UNO Unless Noted
EJ Expansion Joint, 1/2"	P1-P4 Electrical Utility Box	Other Otherwise
F Fire Protection	PIV Post Indicator Valve	VG Valley Gutter
FD Floor Drain	PL Planter	W Waste
FDC Fire Dept Connection	R Radius	WV Water Valve
	RWL Rain Water Leader	

- ### NOTES
- CAST-IN-PLACE CONCRETE, all concrete walk joints shall be expansion joints unless otherwise noted. Provide expansion joints where walk abuts other site elements.
 - For PLUMBING, See Plumbing Drawings; ELECTRICAL, See Electrical Drawings.
 - For Vertical Controls of new utilities, See Detail J14 SD/A303.
 - IDENTIFYING DEVICES, For Site Signage refer to A1 SD/A701 and Specifications.
 - CAST-IN-PLACE CONCRETE, Concrete Apron. Provide concrete aprons at all utility boxes. See Detail L6 SD/A303.

E18	Site Plan Legend
No Scale	

Mission Oak HS Aquatic Complex
Tulare Joint Union High School District
Tulare, CA 93274 Project

SITE DEVELOPMENT
ENLARGED SITE PLANS

Drawing

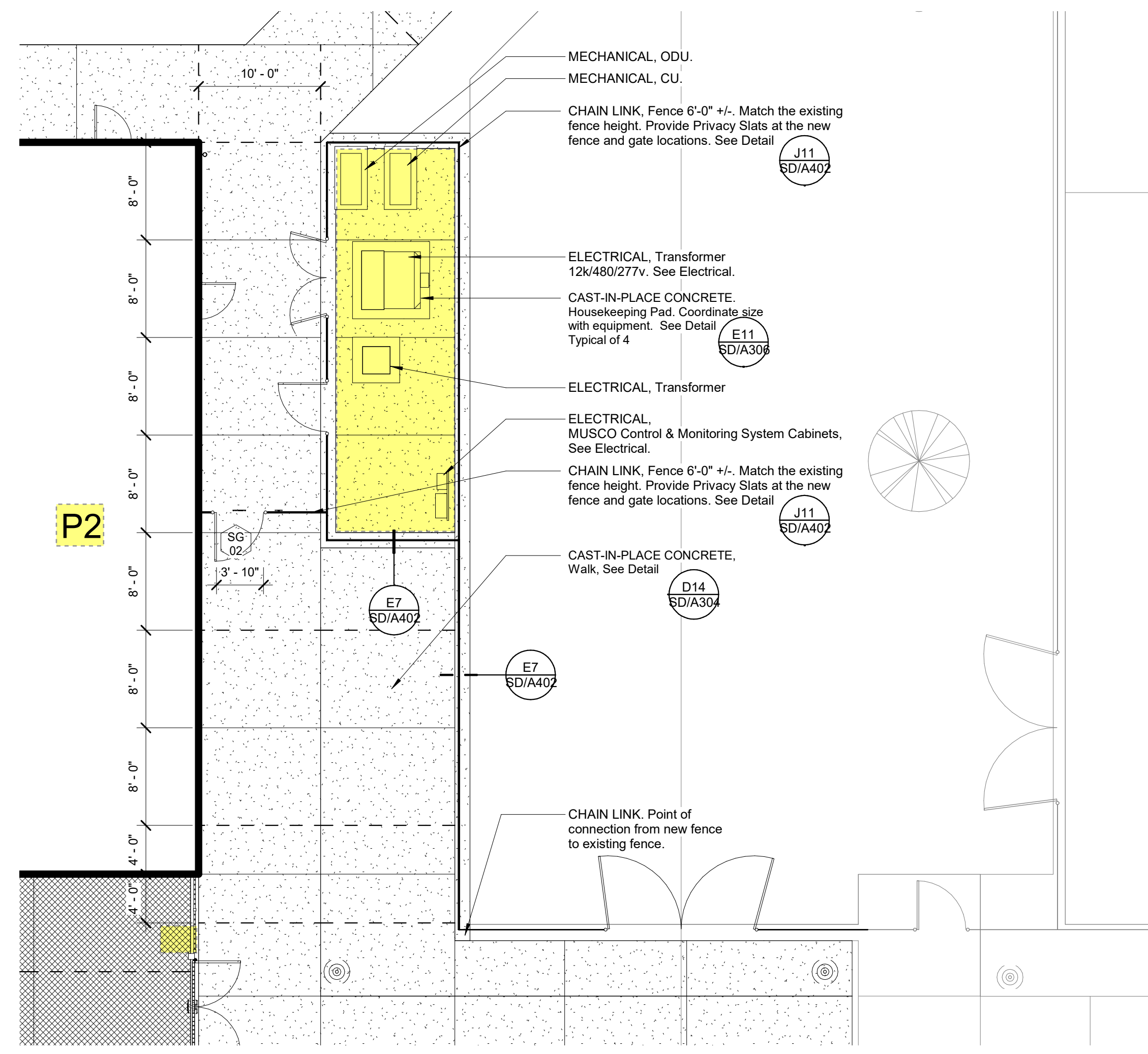
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Architect

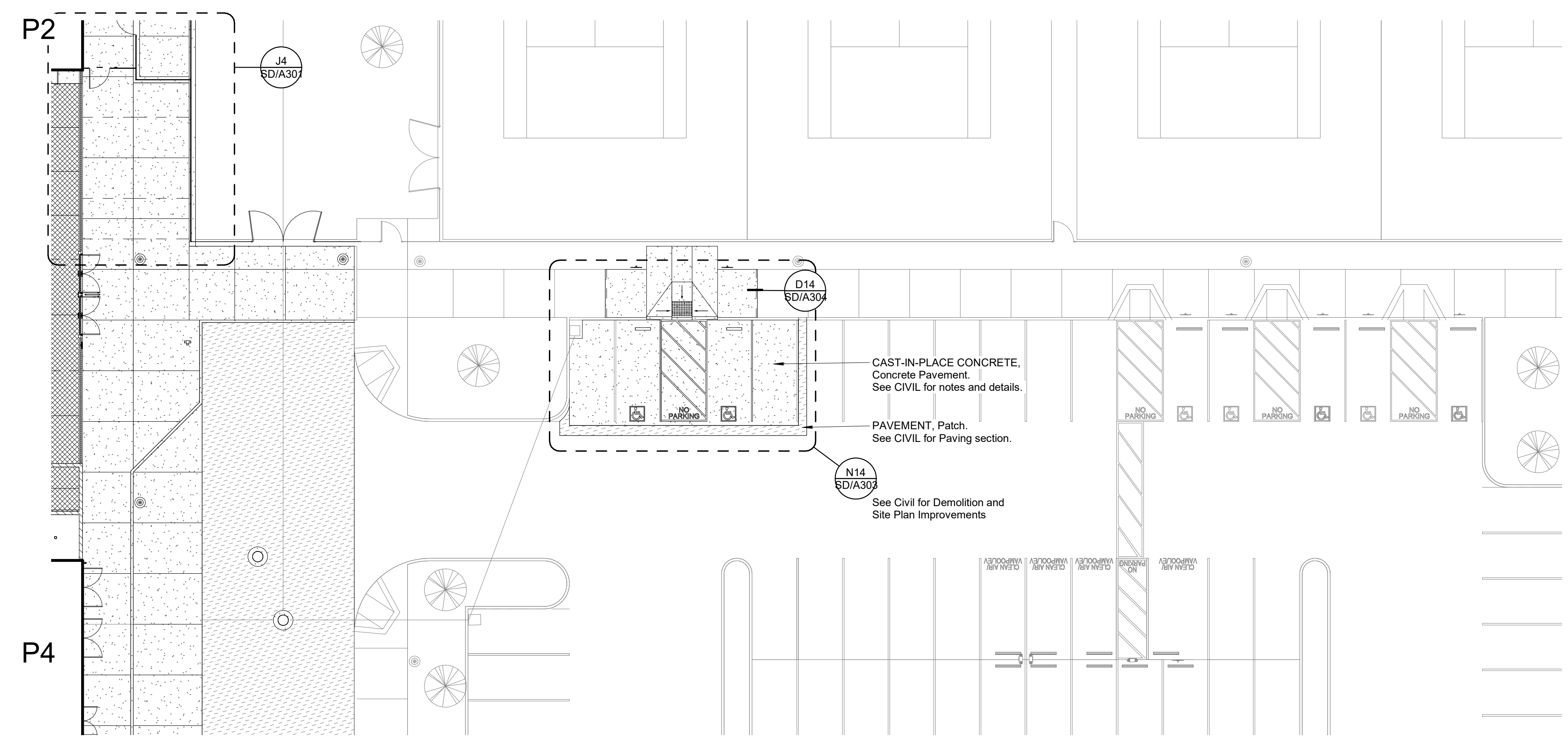
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1	REVISION_01	05/31/2023

Revision	
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Scale:	As indicated
Drawn By:	FM
Project Number:	2180
Checked By:	-
Date:	03/28/2023
Reviewed By:	MF

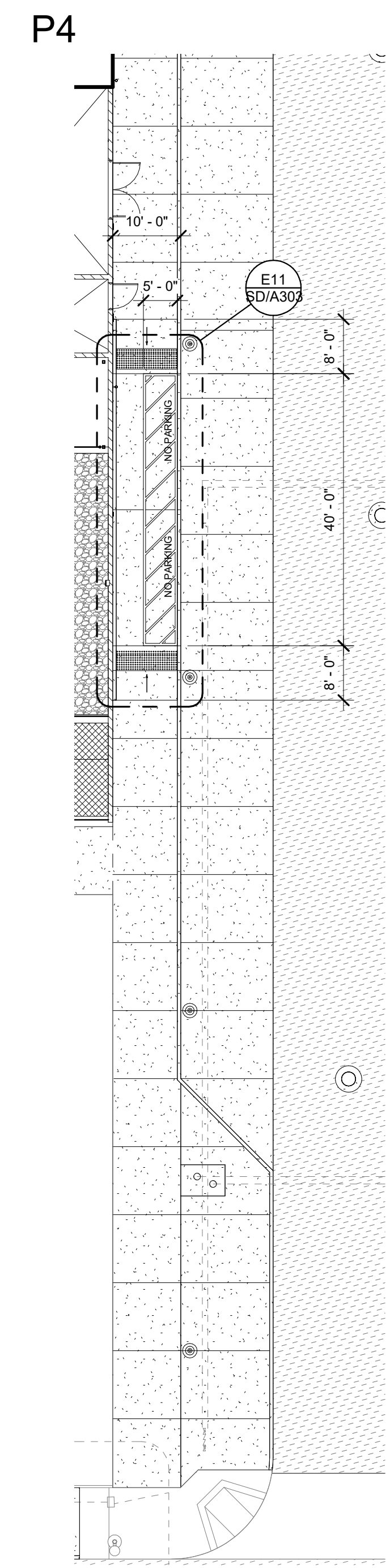
SD/A301



J4 Partial Site Plan, Chain Link Enclosure
1/8" = 1'-0"

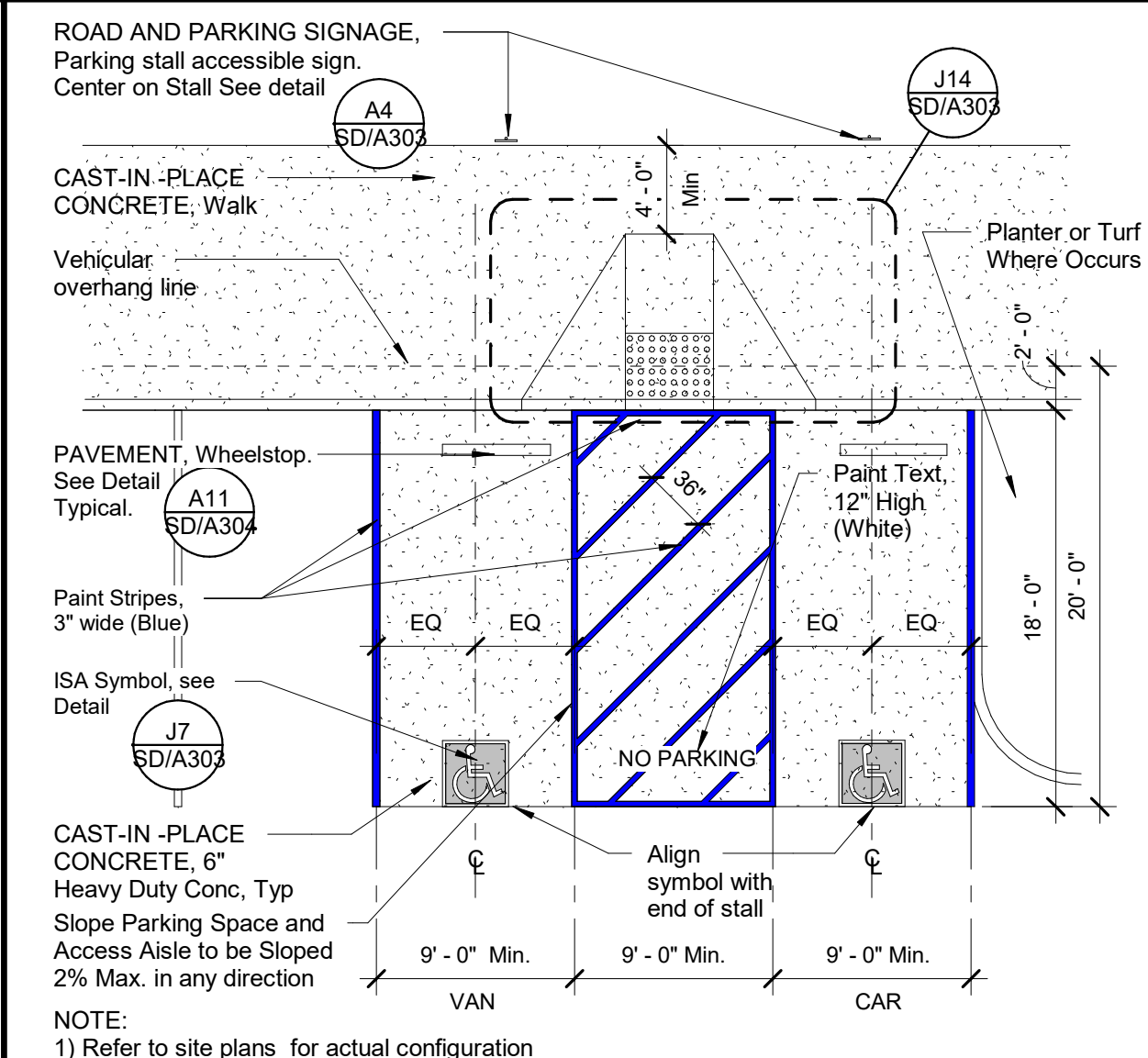
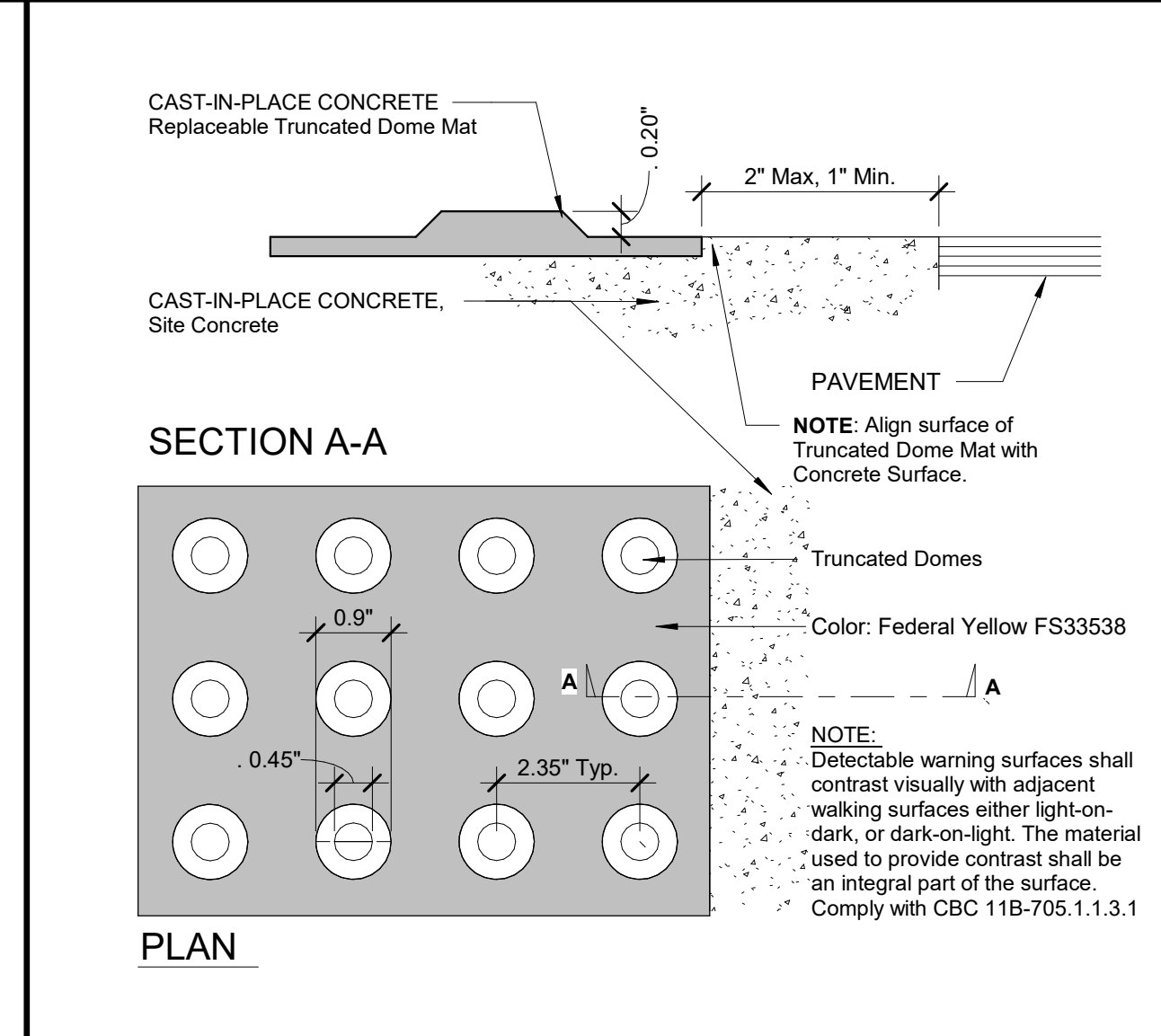


A4 Enlarges Site Plan, Accessible Parking
1/16" = 1'-0"



A14 Enlarged Site Plan, Bus Drop Off Lane
1/16" = 1'-0"

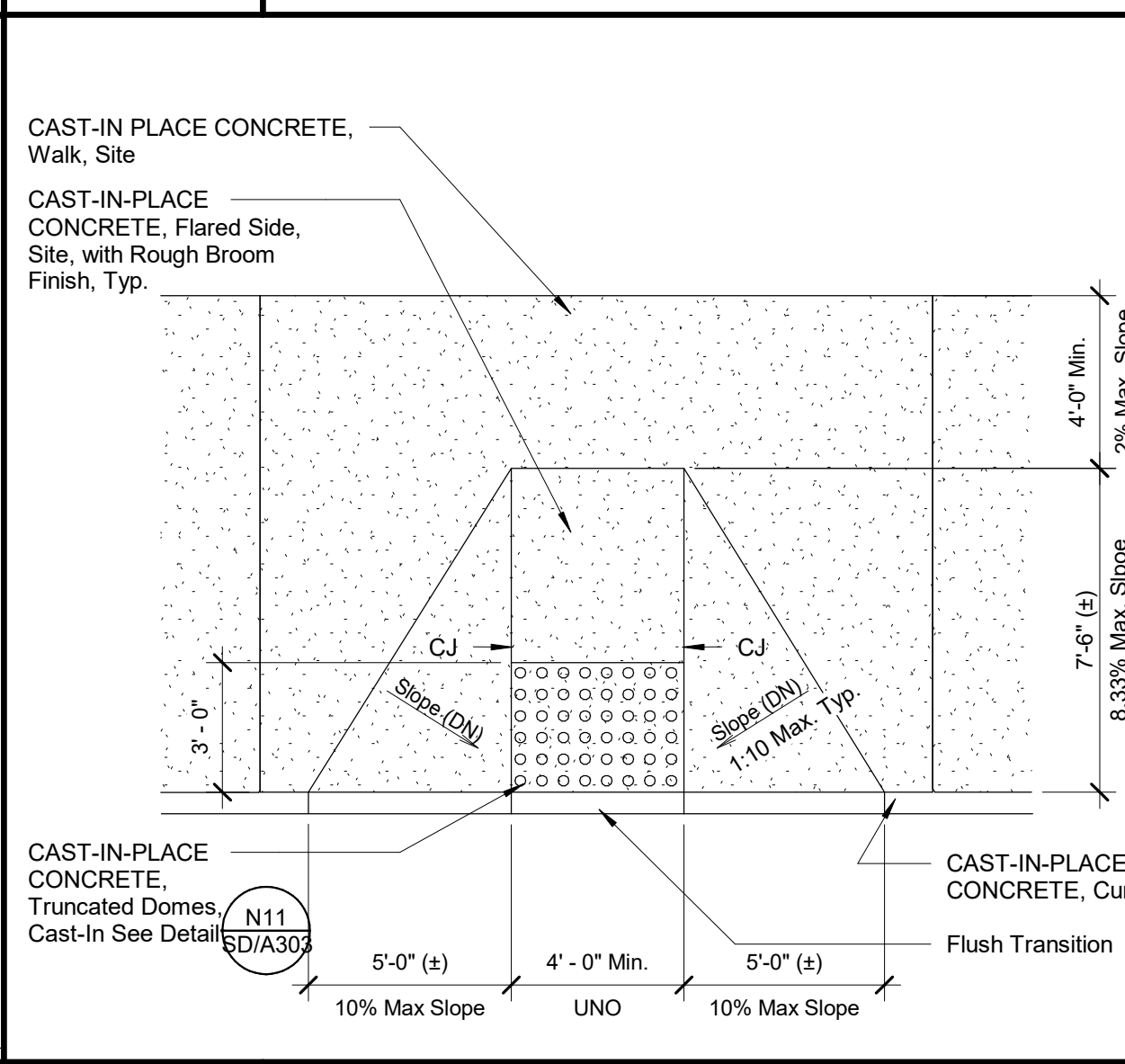
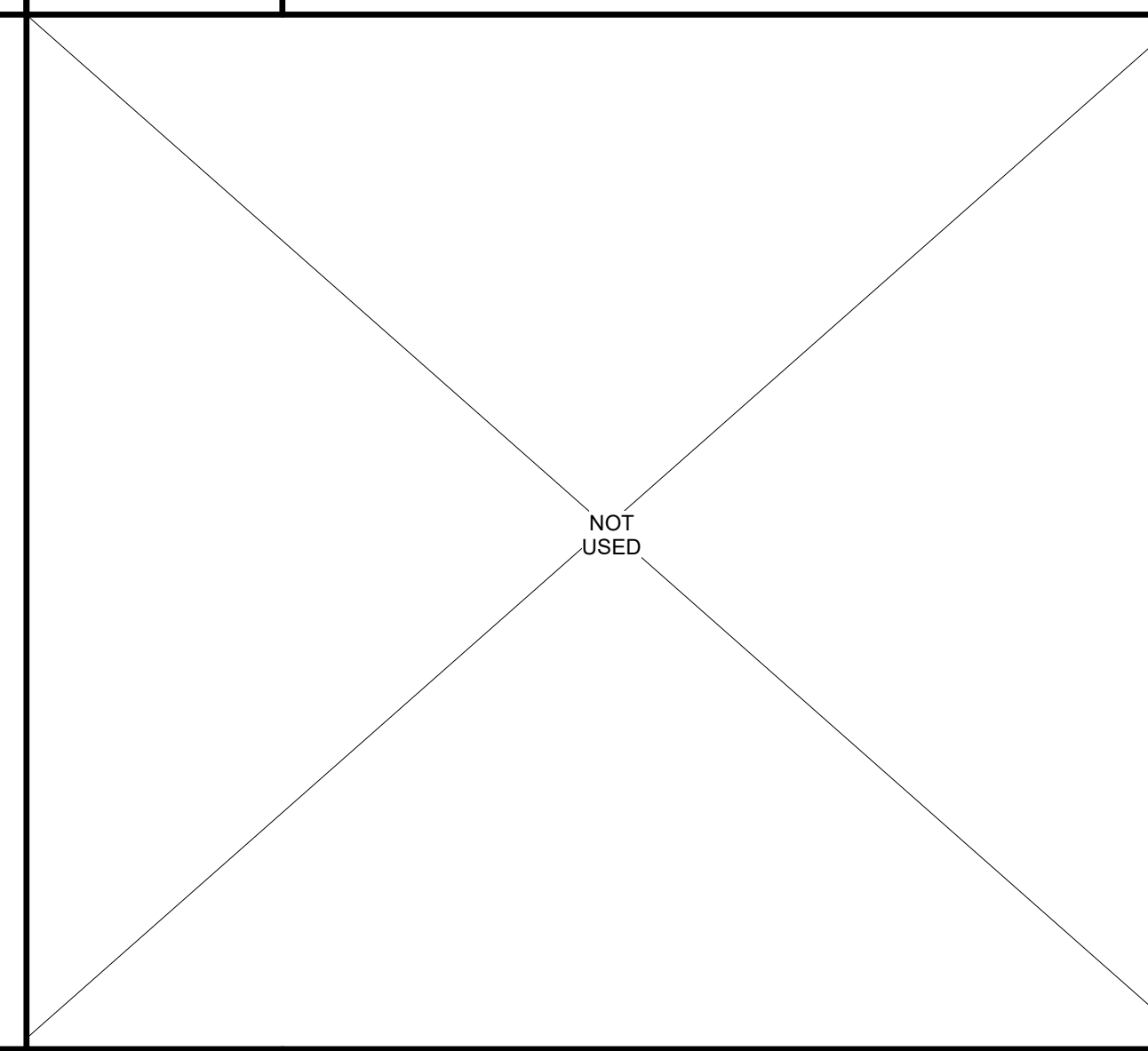
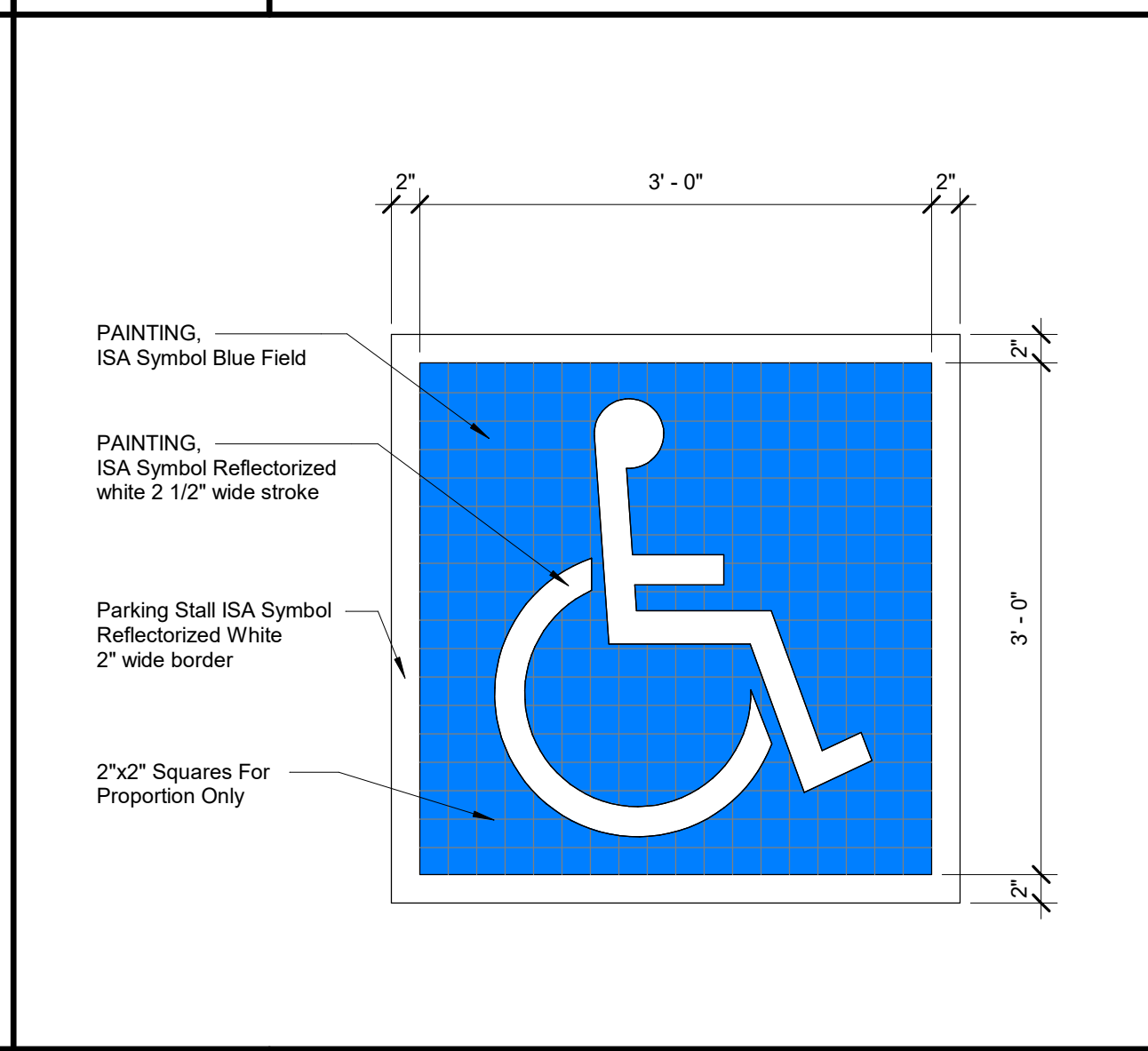
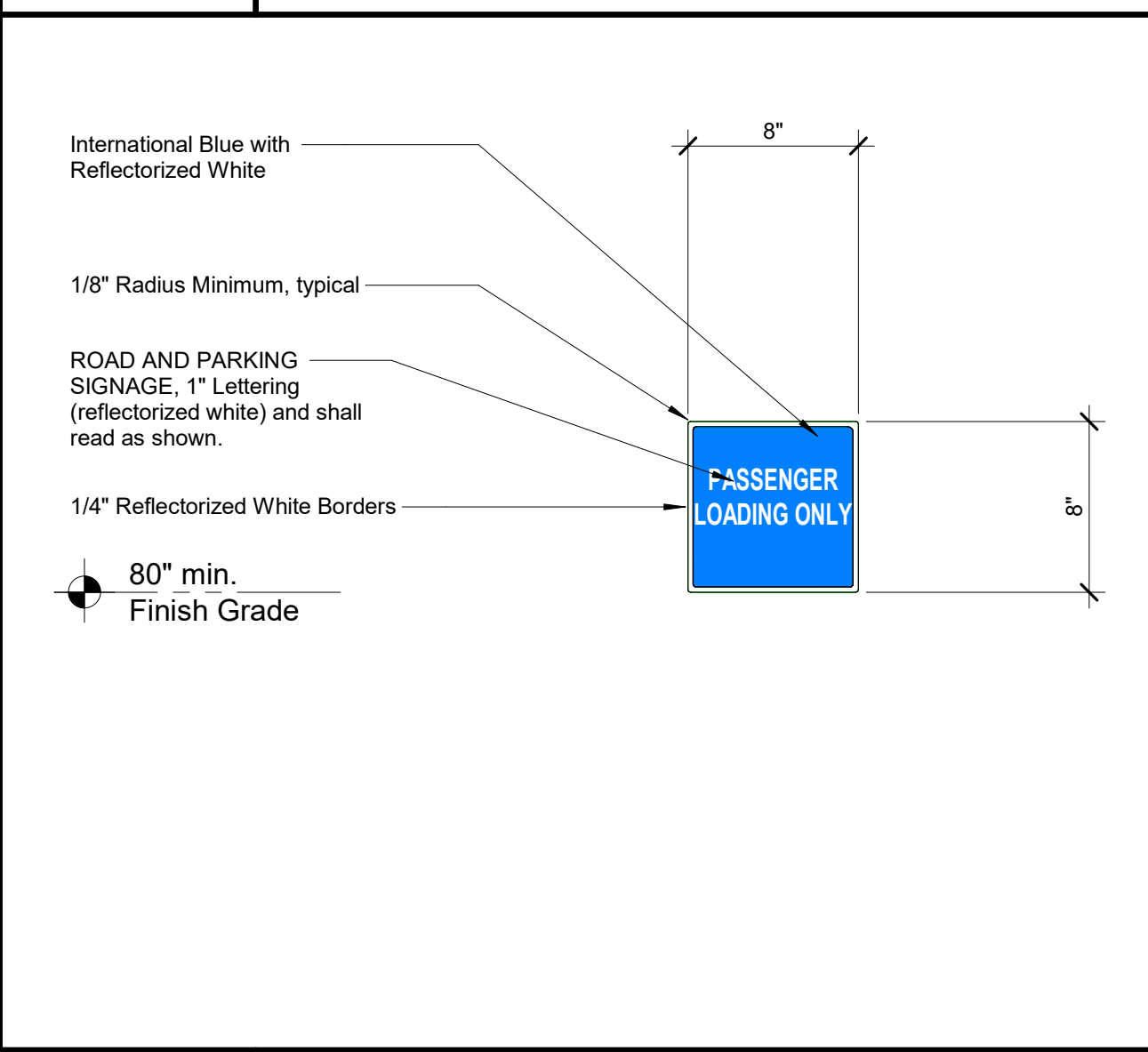
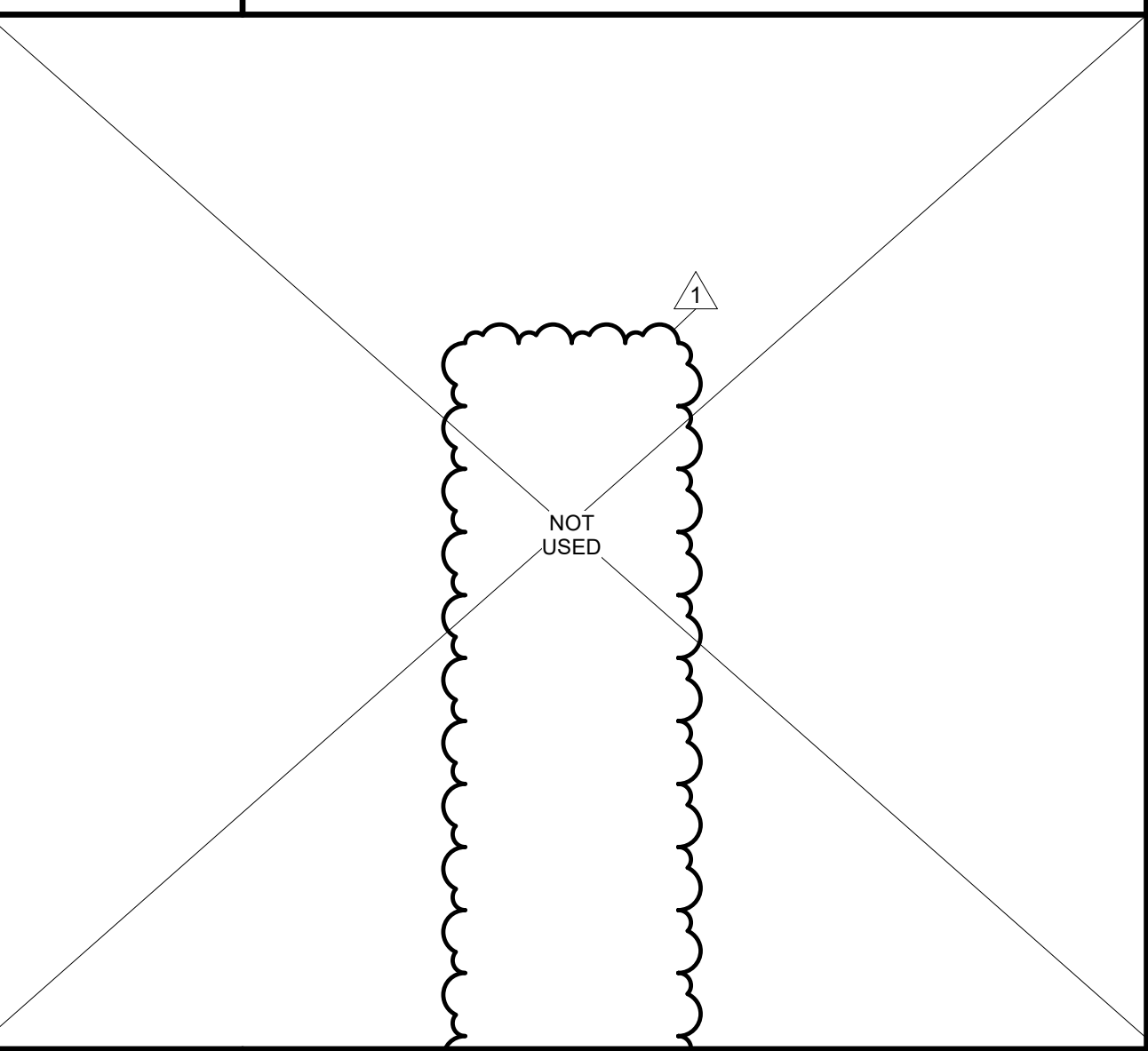
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N11 CAST-IN-PLACE CONCRETE, Truncated Domes
6" = 1'-0"

N14 PAVEMENT, Accessible Parking Stall at Perpendicular Curb Ramp
18" = 1'-0"

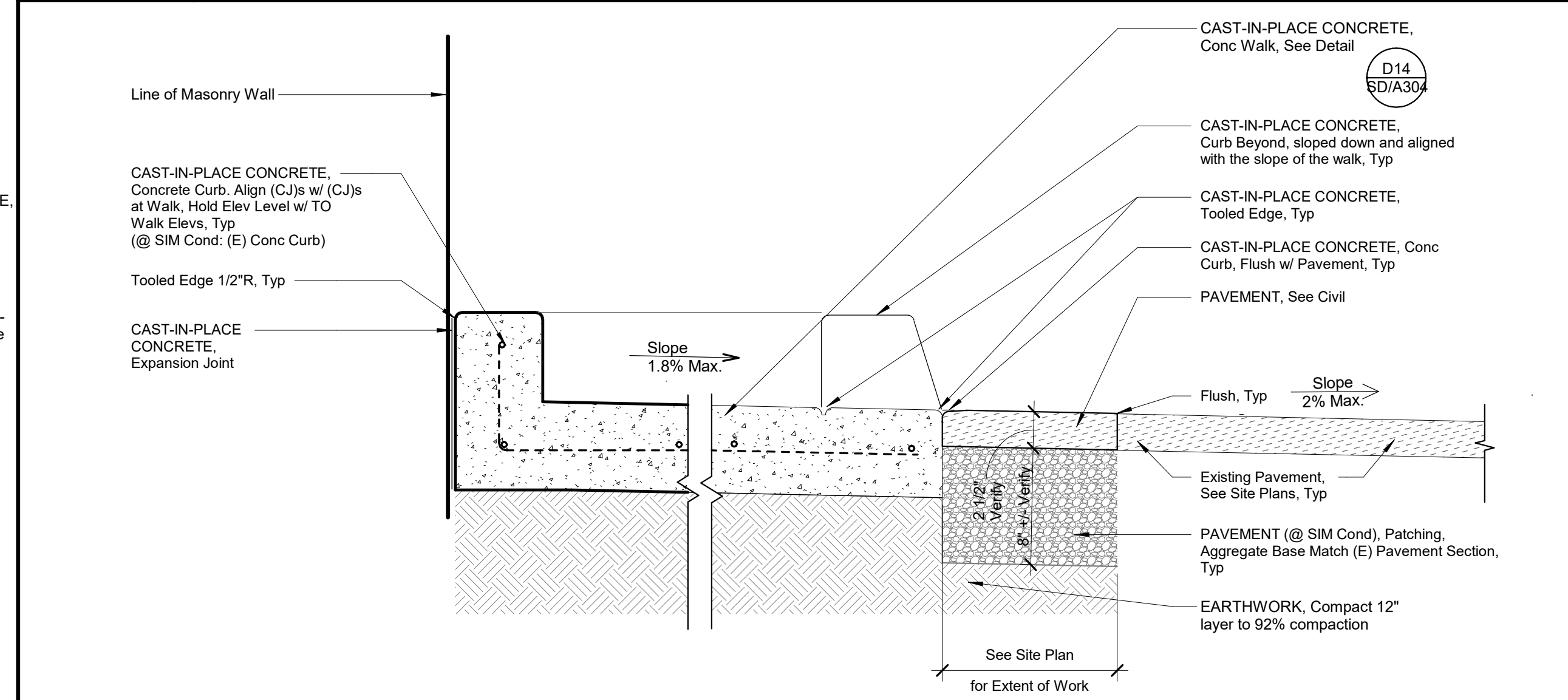
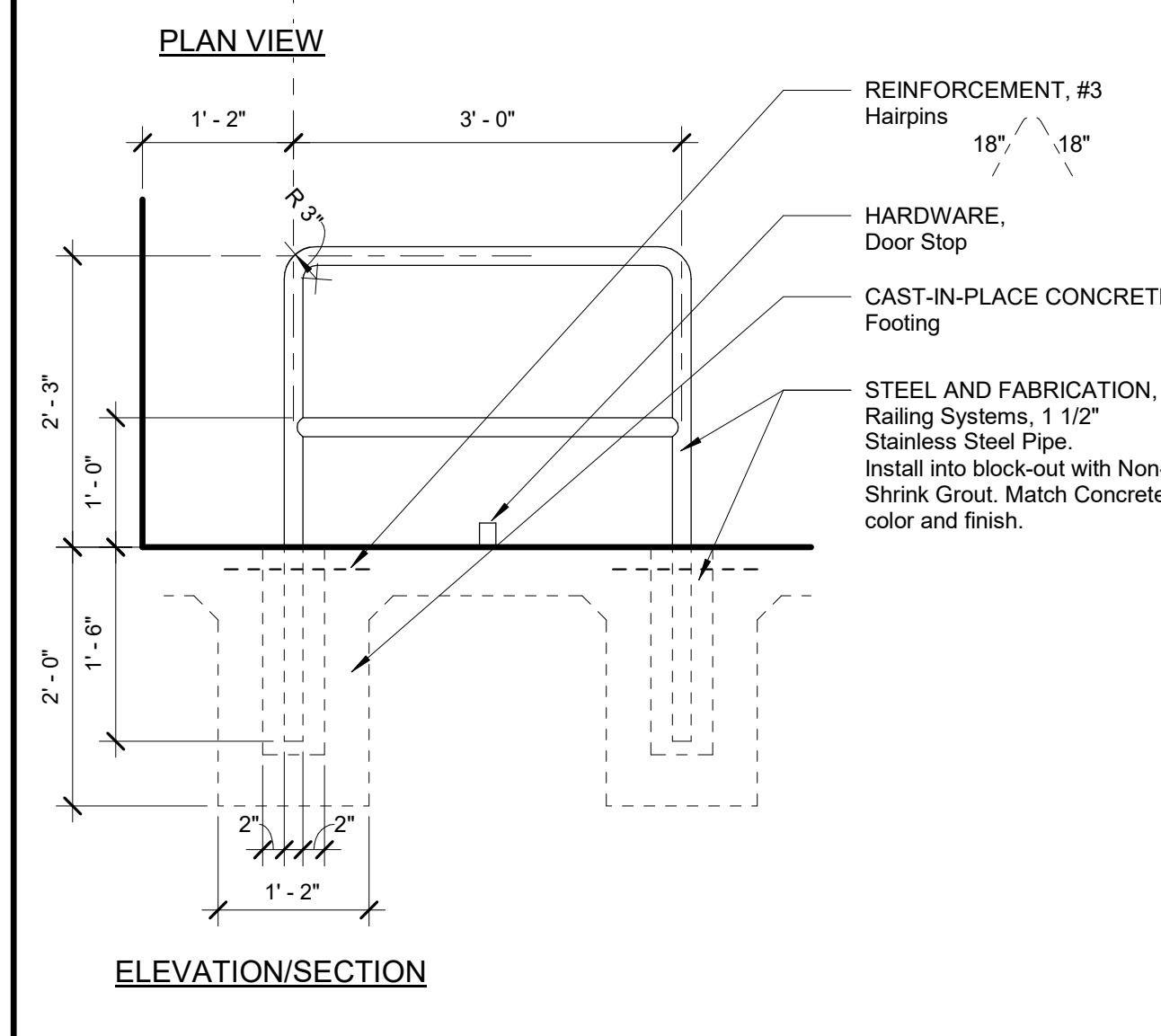
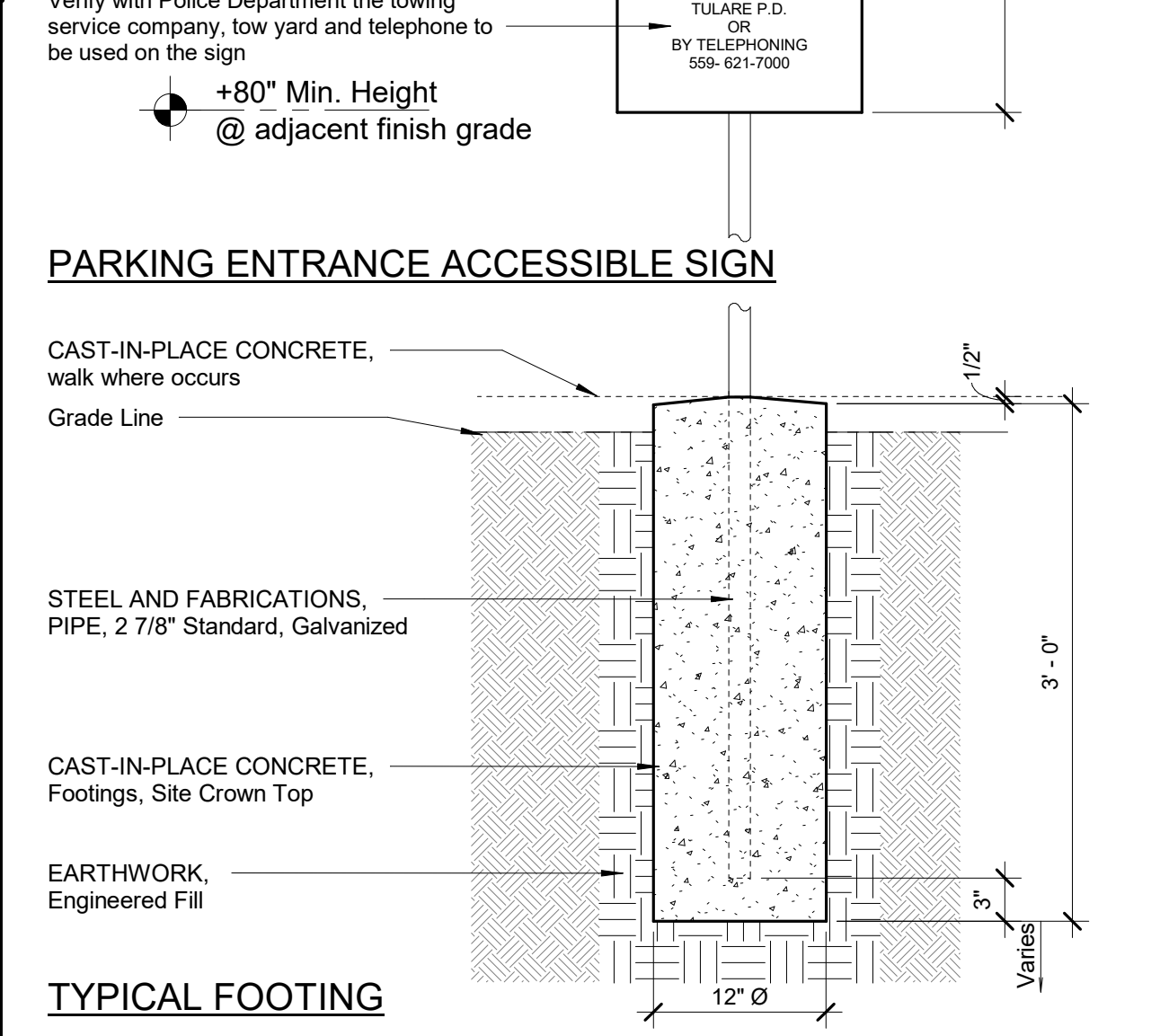
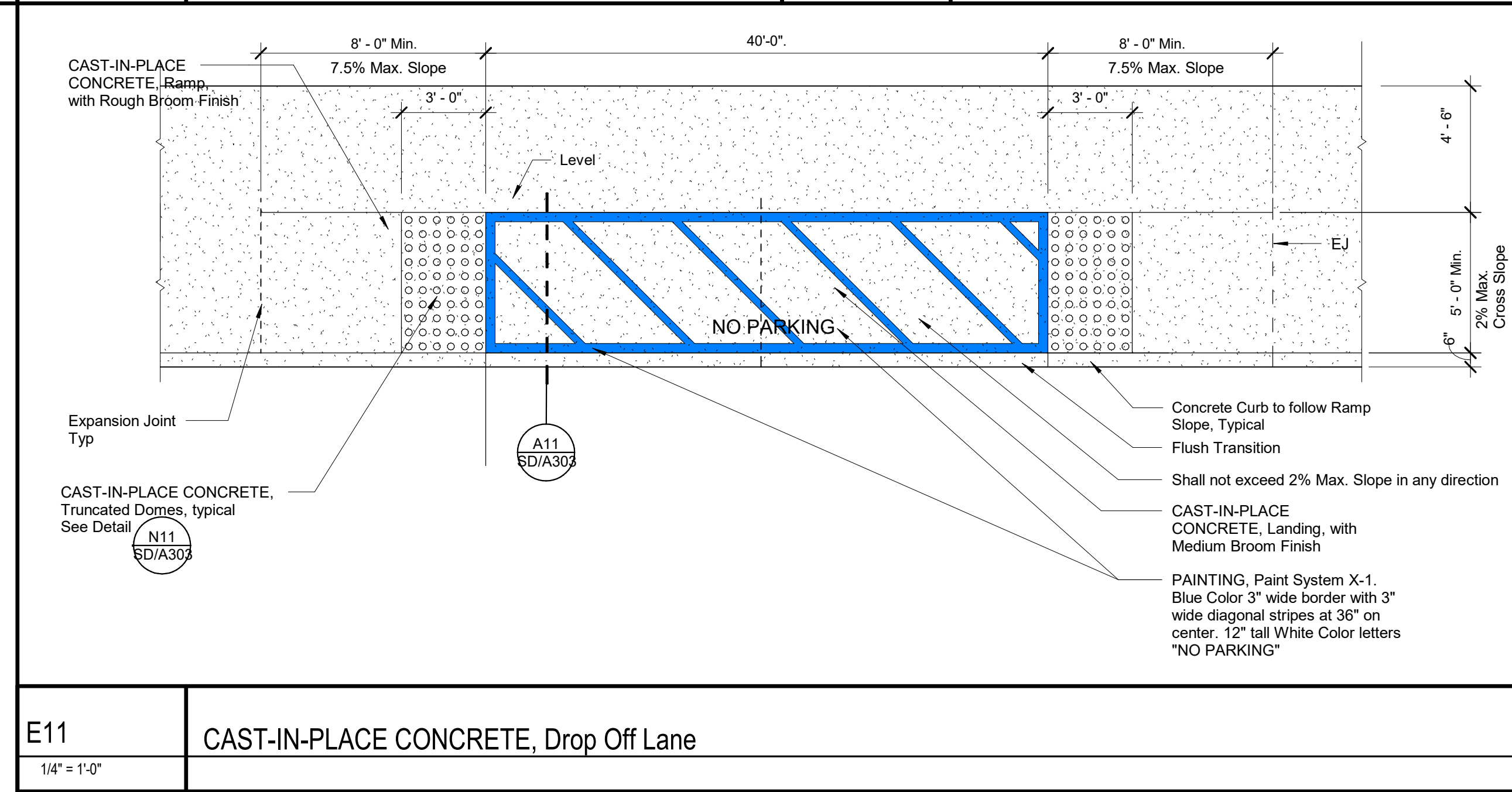
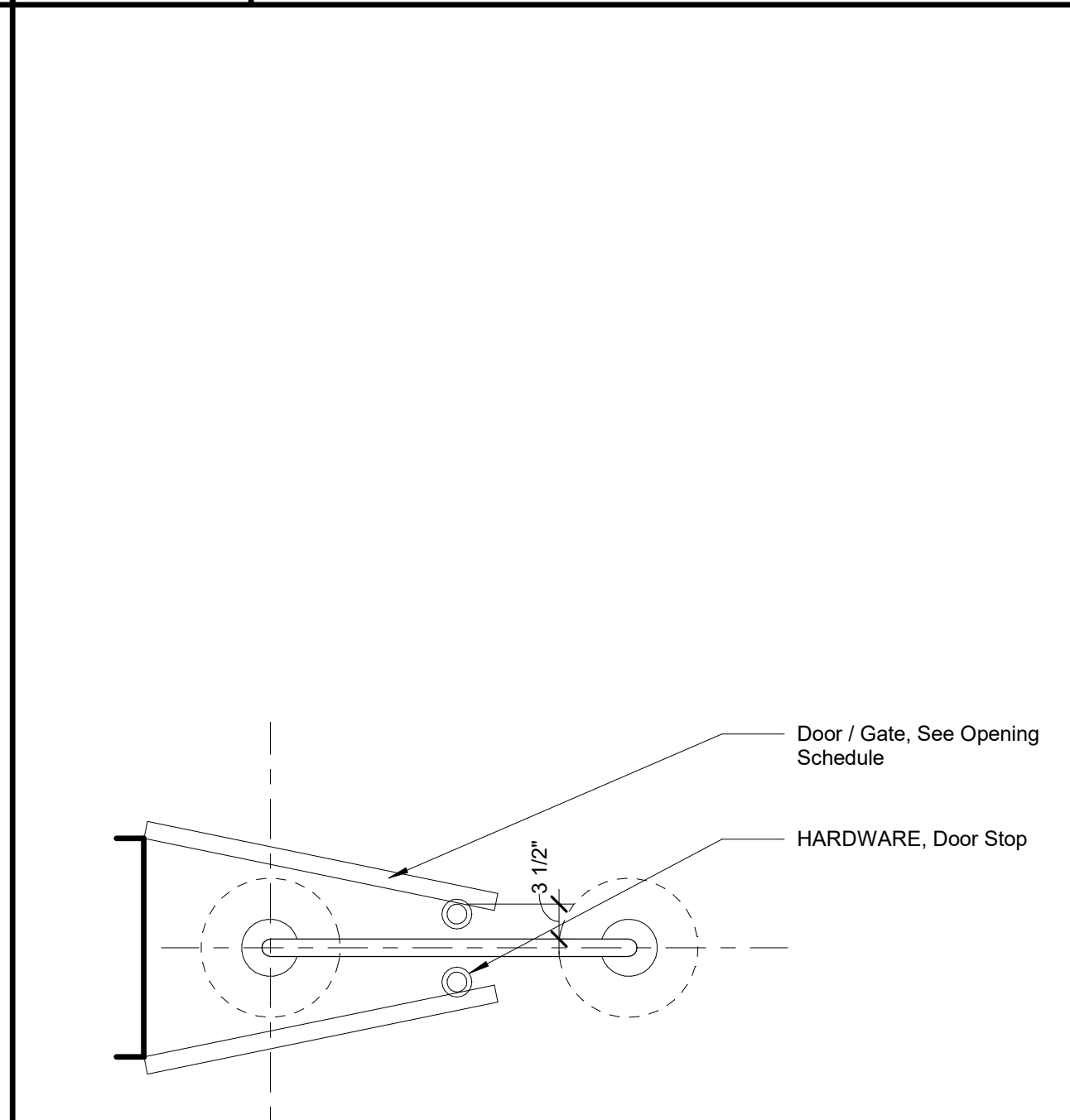
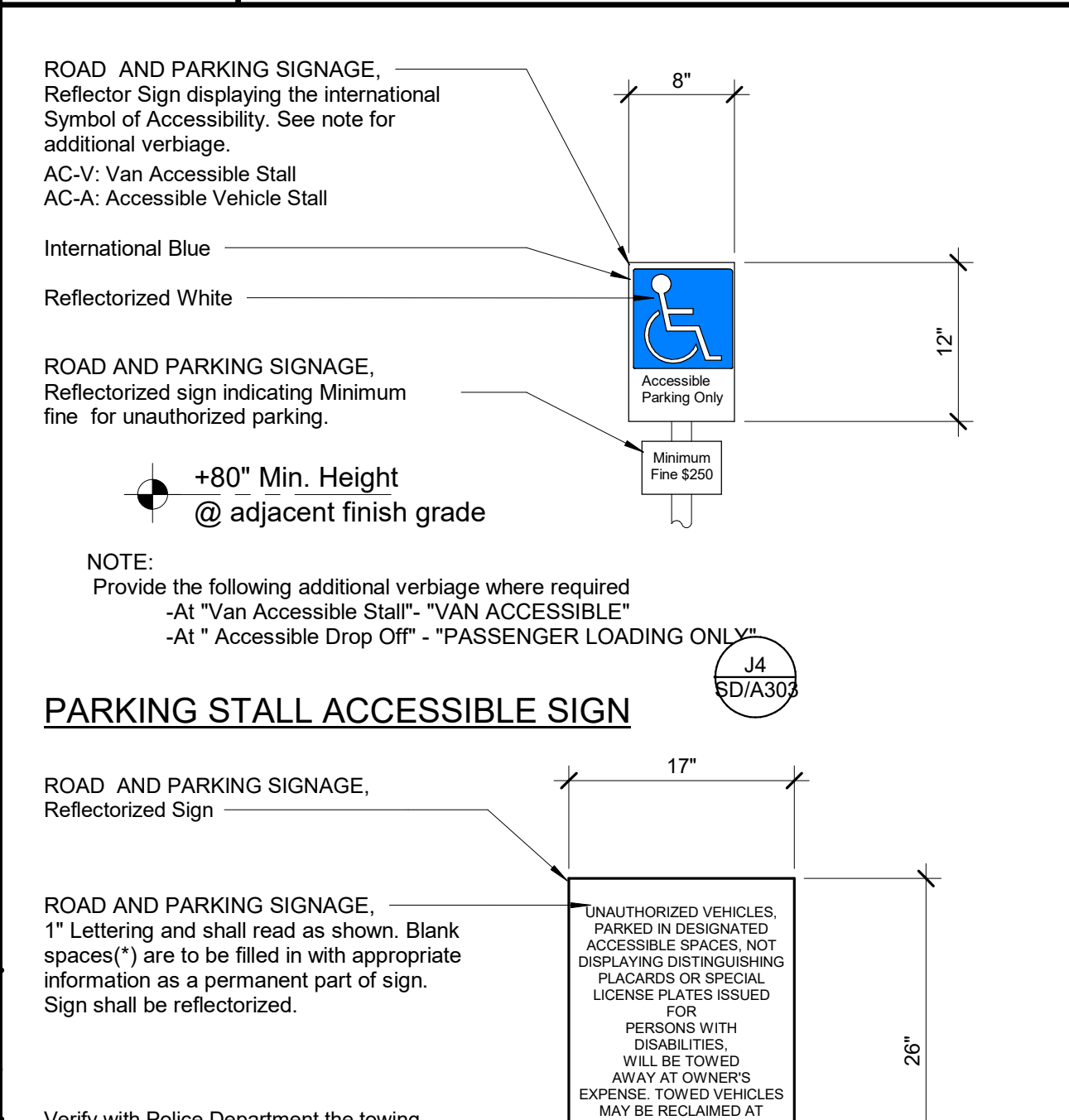
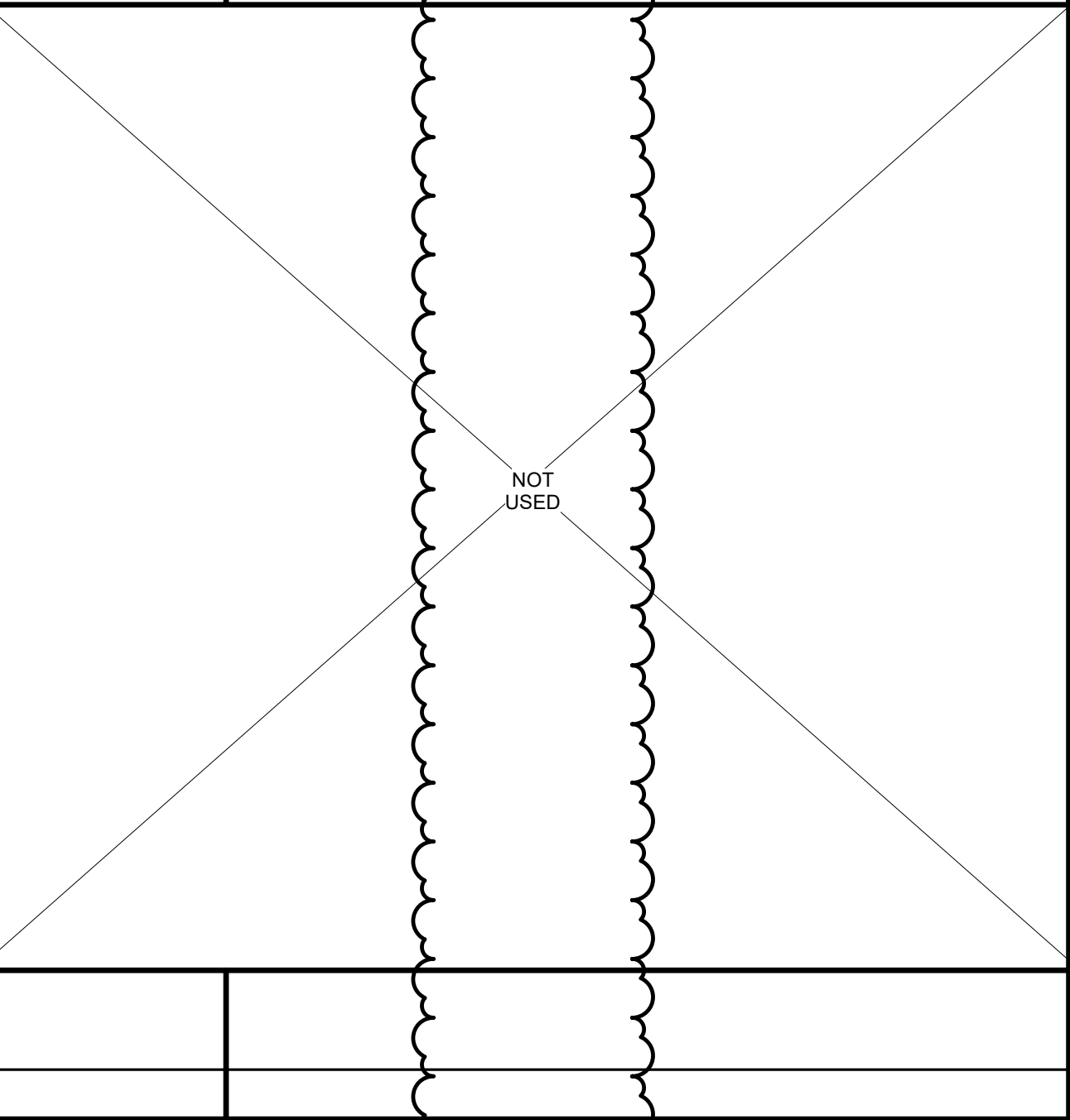
DSA File No.: 54-H11
DSA Application No.: 02-120251
Agency Approval



J4 ROAD AND PARKING SIGNAGE, Passenger Loading Only
1 1/2" = 1'-0"

J7 PAVMENT, ISA Symbol @ Parking Stall
1" = 1'-0"

J14 CAST-IN-PLACE CONCRETE, Accessible Ramp @ Curb
14" = 1'-0"



A4 ROAD AND PARKING SIGNAGE, Accessible Parking & Entrance Sign
1" = 1'-0"

A7 STEEL AND FABRICATIONS Doorstop Bollard
3/4" = 1'-0"

A11 SD-A404 Accessible Drop Off Section
1 1/2" = 1'-0"

Mission Oak HS Aquatic Complex
Tulare Joint Union High School District
Tulare, CA 93274

SITE DEVELOPMENT
DETAILS - ACCESSIBLE ELEMENTS

Project: **ARCHITECTURE PLANNING INTERIORS**
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Architect: **ARCHITECTURE PLANNING INTERIORS**
No. 43024
STATE OF CALIFORNIA

No.	Revision/Submission	Date
1	REVISION_01	05/31/2023

Designed By: MF
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Scale: As indicated
Drawn By: FM
Project Number: 2180
Checked By: -
Date: 03/28/2023
Reviewed By: MF

SD/A303

Sheet: _____ of: _____

CONSTRUCTION SET

APPROVED BY THE STATE ARCHITECT
APP: 02-120251, INC.
REVIEWED FOR
SS ID: ACS ID
DATE: 08/28/2023

Opening Schedule - Site												
Door No.	Frame Type	Size			Door Material	Hardware					Comments	
		Width	Height	Thickness		Head	Jamb	Threshold	Group	Keying Room No		
SG 01	OM-1	15' - 6"	8' - 0"	2"	ORNAMENTAL METAL	-	A10-SD/A404	E1-SD/A404	982OM	-	2	
SG 02	ACL-1	4' - 0"	6' - 0"	1 3/4"	CHAIN LINK	-	J11-SD/A402	A4-SD/A402	98G	-	3	
SG 03	OM-2	7' - 9"	8' - 0"	2"	ORNAMENTAL METAL	-	A4-SD/A404	E1-SD/A404	982OM	-	1	
SG 03a	CL-1	4' - 0"	6' - 0"	1 3/4"	CHAIN LINK	-	J11-SD/A402	A4-SD/A402	-	-	4	
SG 03b	CL-2	6' - 0"	6' - 0"	1 3/4"	CHAIN LINK	-	J11-SD/A402	A4-SD/A402	-	-	5	
SG 04	OM-1	15' - 6"	8' - 0"	2"	ORNAMENTAL METAL	-	A10-SD/A404	E1-SD/A404	982OM	-	2	
SG 05	OM-2	7' - 9"	8' - 0"	2"	ORNAMENTAL METAL	-	A4-SD/A404	E1-SD/A404	982OM	-	1	
SG 06	CL-2	8' - 0"	8' - 0"	1 3/4"	CL	-	J11-SD/A402	A4-SD/A402	998G	-	-	
SG 07	CL-2	12' - 0"	8' - 0"	1 3/4"	Chainlink	-	J11-SD/A402	A4-SD/A402	998G	-	-	

DSA File No.: 54-H11

DSA Application No.: 02-120251

Agency Approval

ABBREVIATIONS:

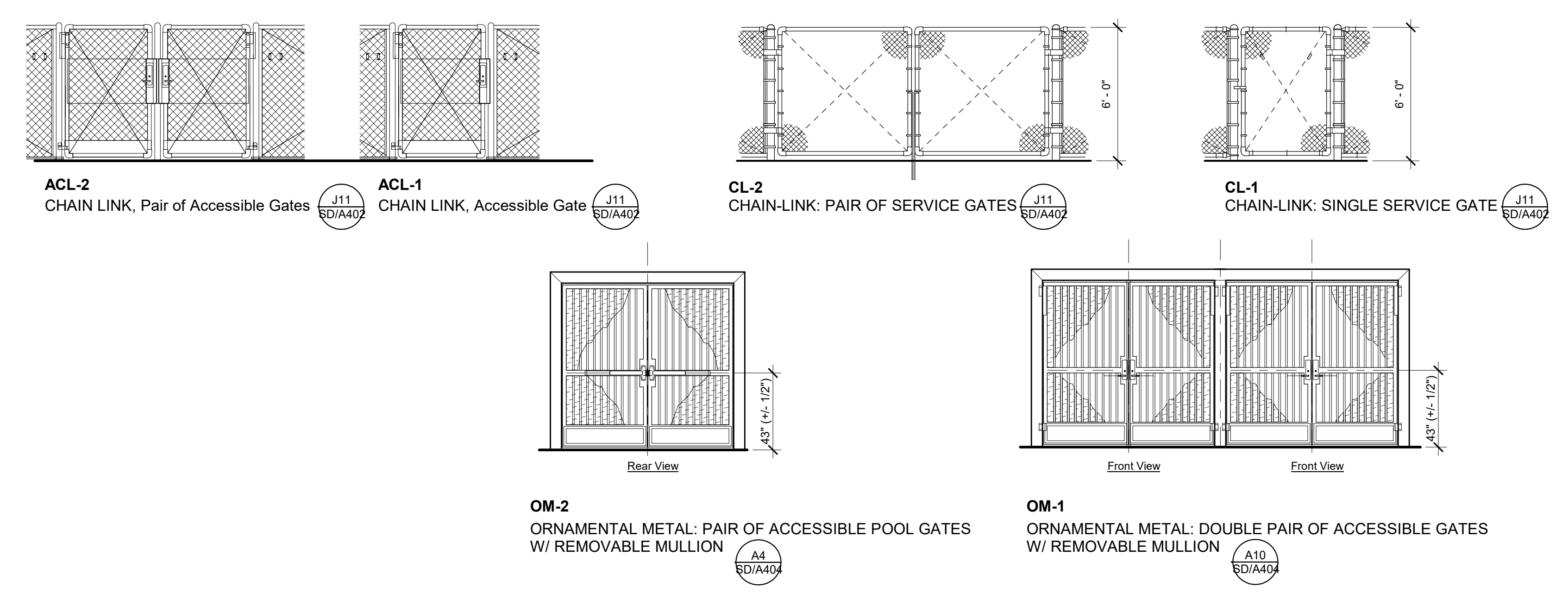
SG - Steel Gate	SS - Stainless Steel
STL - Steel	CL - Chain Link
HM - Hollow Metal	GALV - Galvanized Finish
SG - Site Gate	S&F - Steel and Fabrications
SPF - Steel Post Fence	OM - Ornamental Metal

- GENERAL NOTES:**
- This schedule is provided for the convenience of the General Contractor. Dimensions indicated are nominal dimensions.
 - The General Contractor is responsible for all coordination and review of drawings and verifying all field conditions and dimensions prior to fabrication. Not all detail references are included in the schedule.
 - All details, materials and finishes shall be considered typical for all similar conditions unless noted otherwise.
 - Gate Types are shown on This Sheet.
 - Frame Types are shown on This Sheet.
 - Exit Doors shall be operable from inside without the use of a key or any special knowledge or effort.
 - Method of EMERGENCY SERVICES ACCESS: By Means of the Master Key locked in a MISCELLANEOUS SPECIALTIES, Knox Box located at the Main Entrance of the ADMINISTRATION BUILDING G.

- OPENING SCHEDULE COMMENTS:**
- ORNAMENTAL METAL. Pair of accessible pool gates, with a set of door bumpers. See Details.
 - ORNAMENTAL METAL. Two (2) pair of accessible pool gates, with a set of door bumpers and a fixed bollard / railing. See Details.
 - CHAIN LINK. Accessible Gate with Privacy Slats, and Door Stop / Holder. See
 - CHAIN LINK. Maintenance gate with butterfly latch, padlock and Privacy Slats
 - CHAIN LINK. Pair of maintenance gates with drop rod, butterfly latch, padlock and privacy slats
 - ORNAMENTAL METAL. Pair of maintenance pool gates
 - STEEL AND FABRICATIONS, Bus lane gates.
- DSA REVIEW:**
- "Open Mesh Fences", "Ornamental Metal Fencing", and "Solid Clad Fences" per California Administrative Code Sec. 4.314 are exempt from DSA review and not part of the DSA Structural Safety approval.
 - DSA IR A-22, Item 12 "Open Mesh Fences", requires only DSA Access review and approval for gates and access.

J7 Opening Schedule Site Gates

J18 Opening Schedule Legend
No Scale



Mission Oak HS Aquatic Complex
Tulare Joint Union High School District
Tulare, CA 93274

SITE DEVELOPMENT
SITE OPENING SCHEDULE
Drawing

ARCHITECTURE
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No.	Revision/Submission	Date
1	REVISION_01	05/31/2023

Revision

Designed By: MF Copyright 2022 Darden Architects
Drawn By: FM
Checked By: -
Reviewed By: MF

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

Project Number: 2180

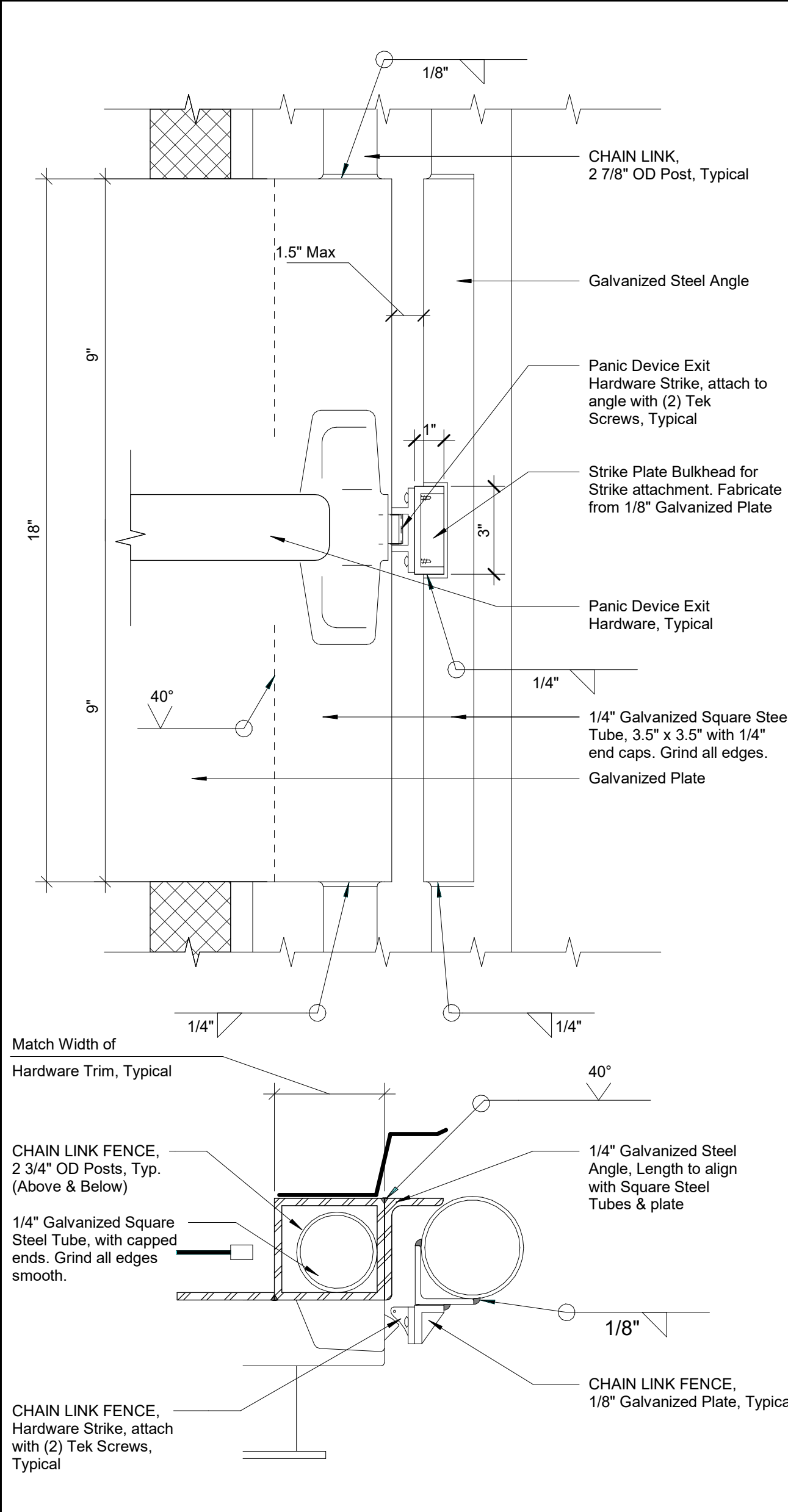
Date: 03/28/2023

SD/A401

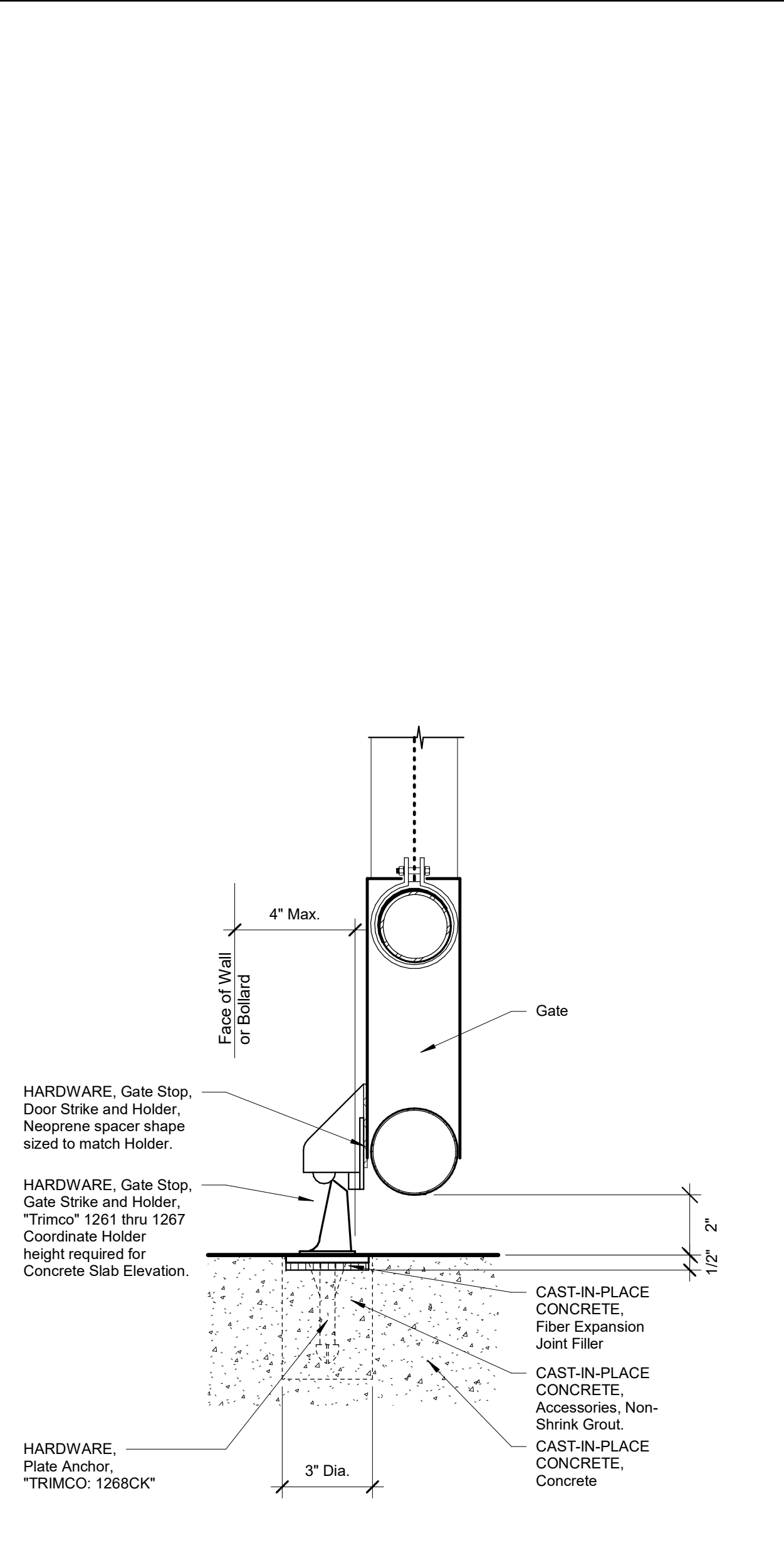
A7 SITE GATE OPENING TYPES
1/4" = 1'-0"

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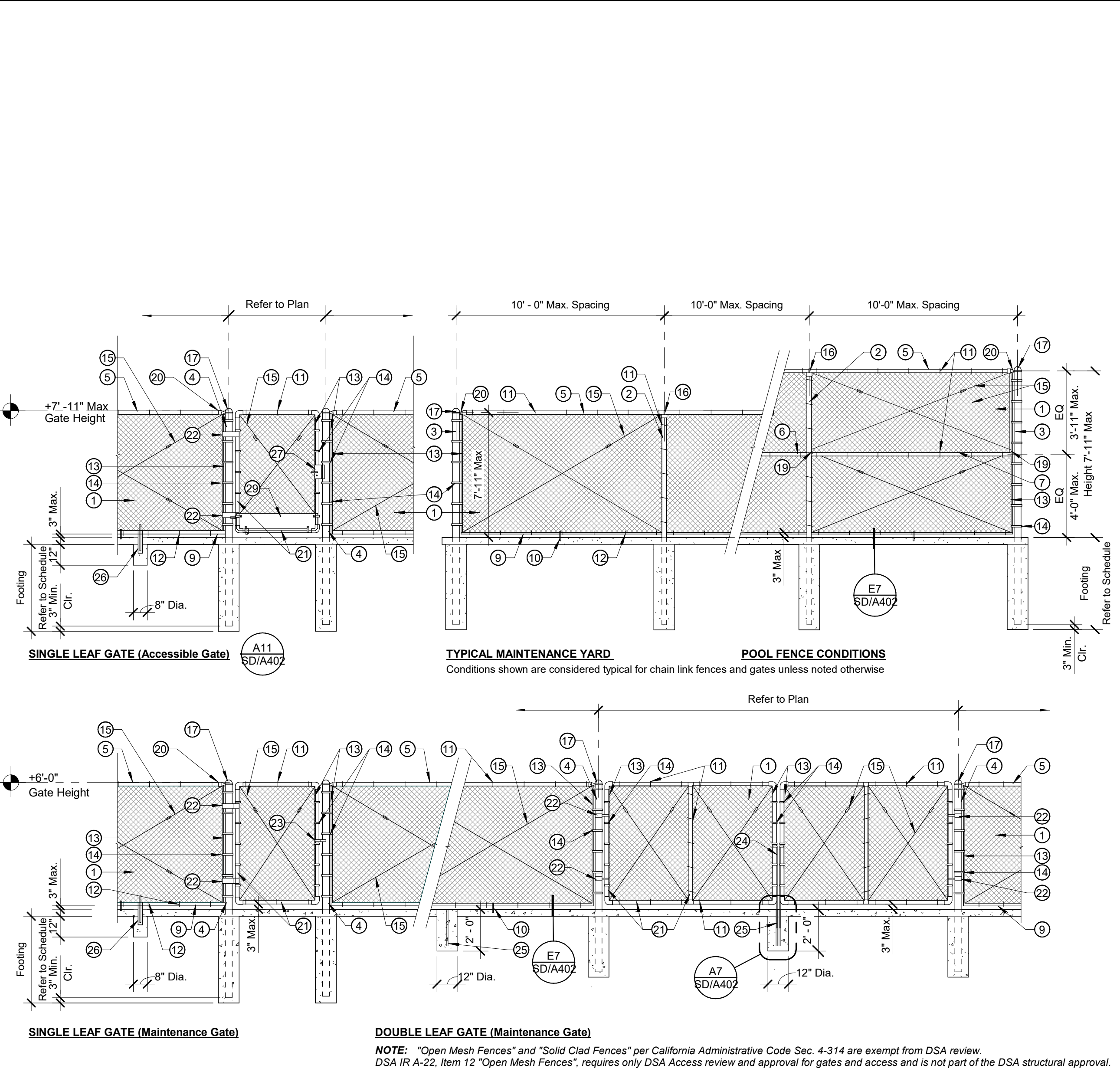
DSA File No.: 54-H11
 DSA Application No.: 02-120251
 IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP: 02-120251 INC.
 REVIEWED FOR:
 SS FLS ACS
 DATE: 01/31/2023
 Agency Approval



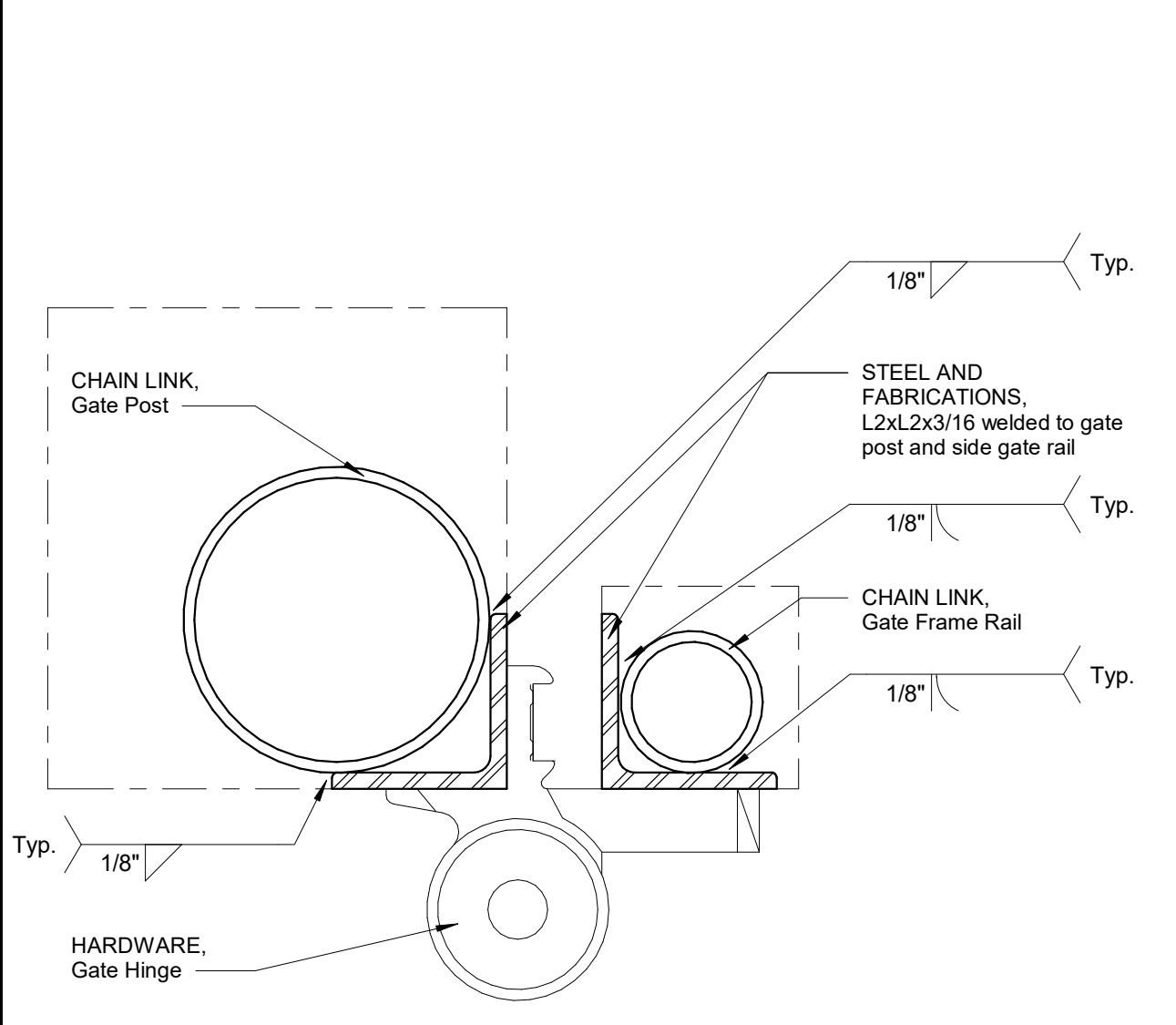
J4 CHAIN LINK, Accessible Gate Strike
 3" = 1'-0"



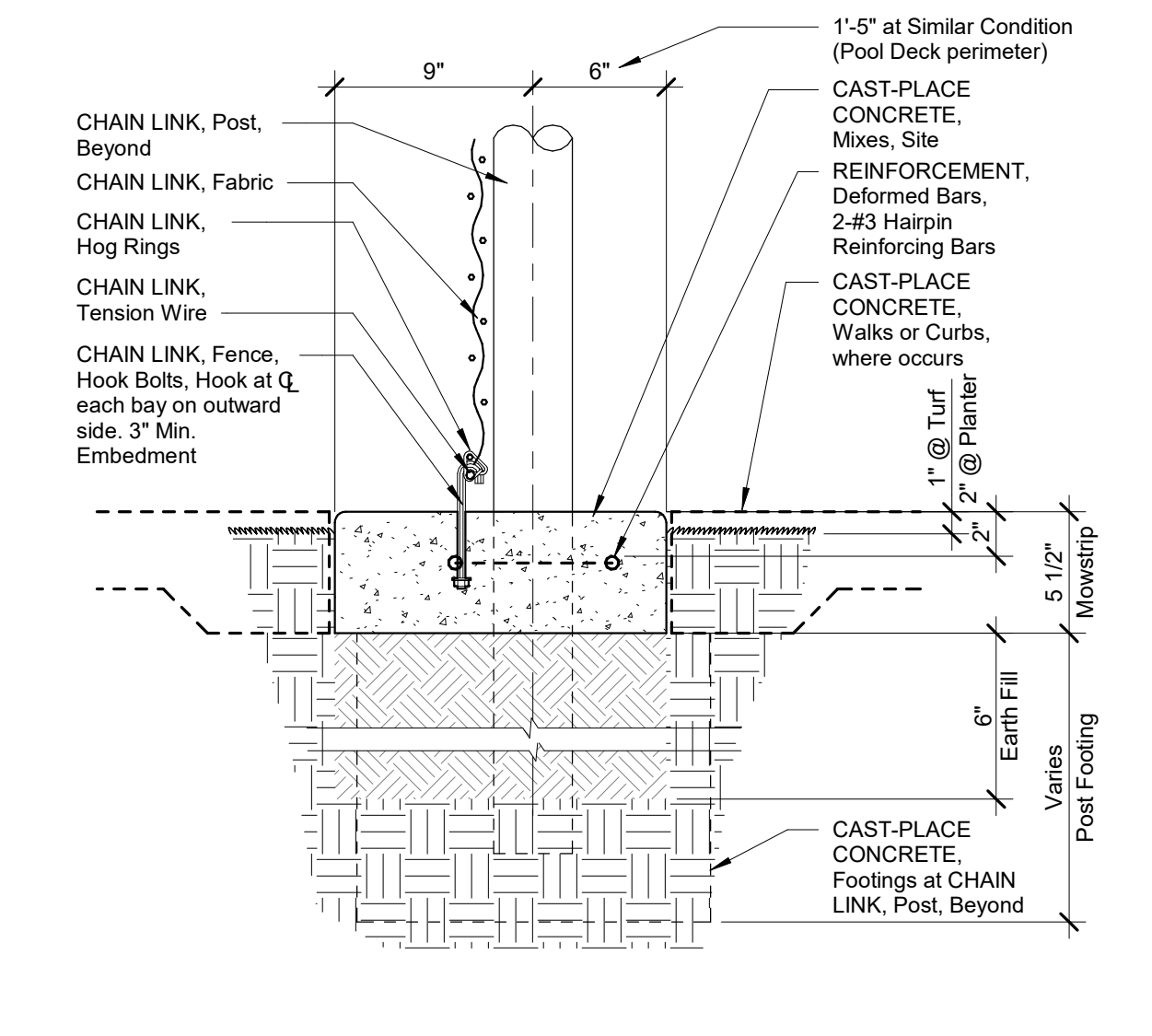
J7 HARDWARE, Chain Link Gate Strike and Holder
 3" = 1'-0"



J11 CHAIN LINK, Typical Gate and Fence Conditions
 1/4" = 1'-0"



E4 CHAIN LINK, Accessible Gate Hinge
 6" = 1'-0"



E7 CHAIN LINK, Footing and Mowstrip
 1 1/2" = 1'-0"

LEGEND

- ① Fabric
- ② Post, Line
- ③ Post, Terminal
- ④ Post, Gate
- ⑤ Rails, Top
- ⑥ Rails, Horizontal
- ⑦ Rails, Bottom
- ⑧ Tension Wire
- ⑨ Hook Bolts
- ⑩ Tie Wires
- ⑪ Hog Rings
- ⑫ Tension Bar
- ⑬ Tension Bands
- ⑭ Truss Rod Assembly
- ⑮ Fittings, Post Cap, Line
- ⑯ Fittings, Post Cap, Terminal
- ⑰ Fittings, Rail End
- ⑱ Fittings, Brace End
- ⑲ Fittings, Top Rail Sleeves
- ⑳ Gates, Frame
- ㉑ Gates, Hardware, Hinges
- ㉒ Gates, Hardware, Leaf Latch, 36" HW Adv Conc.
- ㉓ Gates, Hardware, Stop
- ㉔ Gates, Hardware, Keeper
- ㉕ Gates, Hardware, ADA Lock, 36" HW Adv Conc.
- ㉖ Gates, Hardware, Exit Door
- ㉗ Gates, Hardware, ADA Kick Plate
- ㉘ Pipe Track and Bracket
- ㉙ Roller Assembly
- ㉚ Wheel Assembly
- ㉛ Steel Angle Track
- ㉜ Guide Post

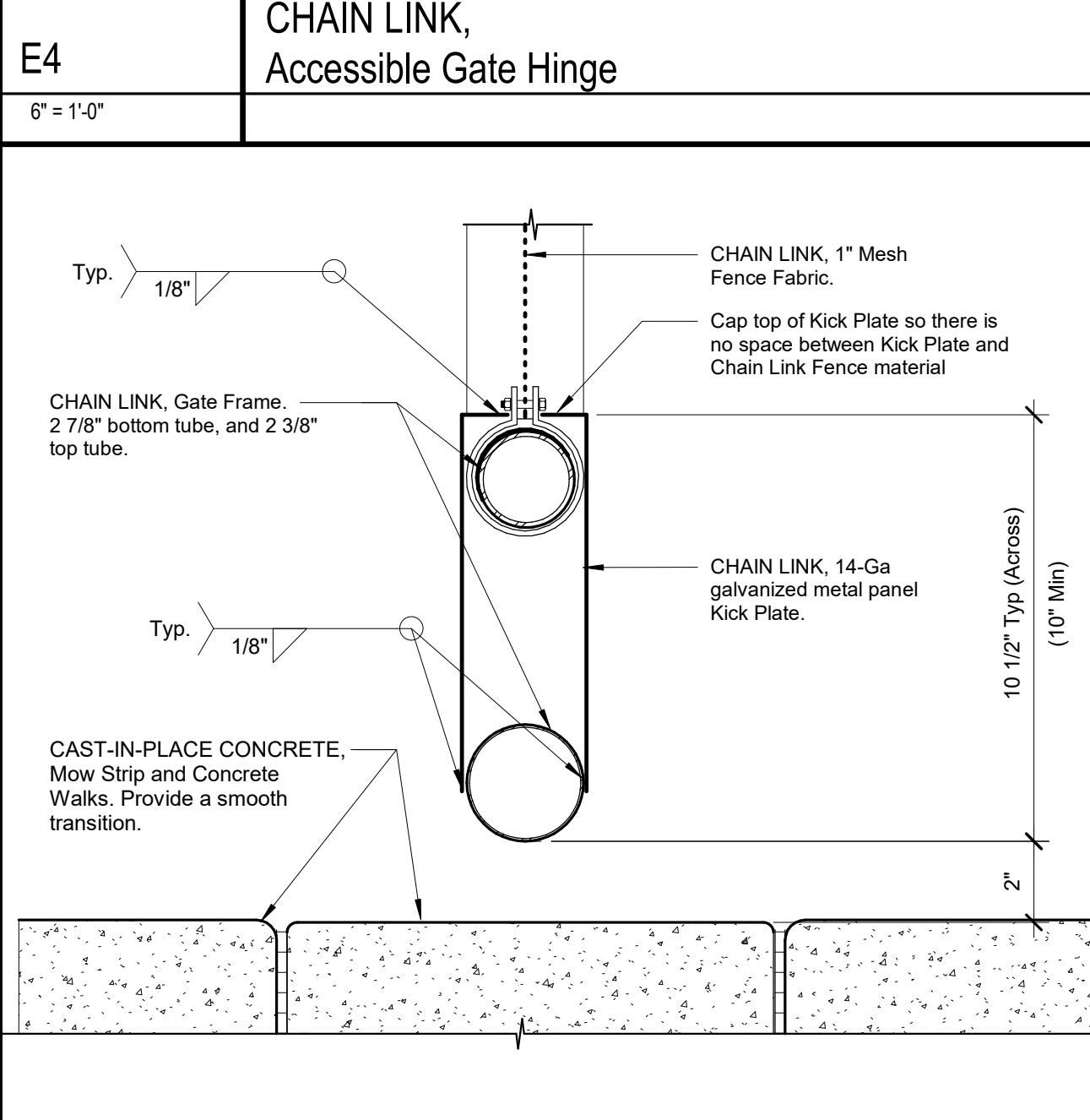
MAX FENCE HEIGHT	CHAIN LINK POST AND FOOTING SCHEDULE		CHAIN LINK GATE POST AND FOOTING SCHEDULE	
	POST	FOOTING	POST	FOOTING
4'-0"	2-3/8" O.D.	12" dia. x 2'-0" D.	2-7/8" O.D.	12" dia. x 2'-6" D.
6'-0"	2-7/8" O.D.	14" dia. x 2'-0" D.	3-1/2" O.D.	14" dia. x 3'-0" D.
8'-0"	2-7/8" O.D.	14" dia. x 3'-0" D.	3-1/2" O.D.	14" dia. x 3'-6" D.
10'-0"	3-1/2" O.D.	16" dia. x 3'-6" D.	4" O.D.	16" dia. x 4'-0" D.
12'-0"	3-1/2" O.D.	16" dia. x 4'-0" D.	4" O.D.	16" dia. x 4'-6" D.
14'-0"	3-1/2" O.D.	16" dia. x 4'-6" D.	4" O.D.	16" dia. x 5'-0" D.
16'-0"	4" O.D.	16" dia. x 5'-0" D.	4-1/2" O.D.	16" dia. x 5'-6" D.
18'-0"	4" O.D.	16" dia. x 5'-6" D.	4-1/2" O.D.	16" dia. x 6'-0" D.
20'-0"	4-1/2" O.D.	16" dia. x 6'-0" D.	5-9/16" O.D.	16" dia. x 6'-6" D.

Post and footing sizes are minimal unless specifically detailed and noted otherwise.

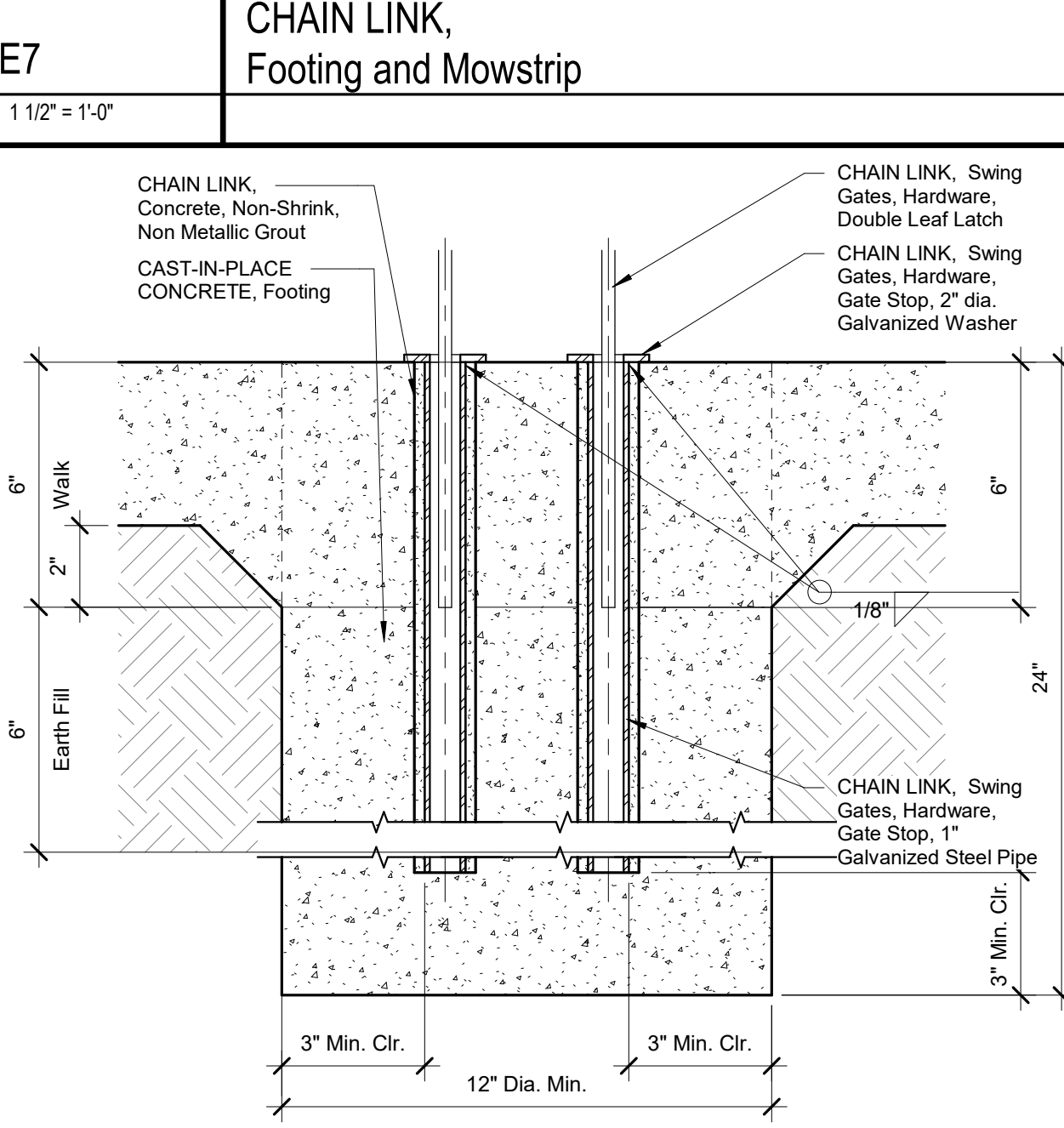
MAX GATE LEAF WIDTH	6'-0" MAX. GATE HEIGHT		8'-0" MAX. GATE HEIGHT	
	GATE POST	POST FOOTINGS	GATE POST	POST FOOTINGS
4'-0"	2-3/8" O.D.	14" dia. x 2'-6" D.	2-7/8" O.D.	14" dia. x 3'-0" D.
6'-0"	2-7/8" O.D.	14" dia. x 3'-0" D.	2-7/8" O.D.	14" dia. x 3'-0" D.
8'-0"	2-7/8" O.D.	14" dia. x 3'-0" D.	4" O.D.	16" dia. x 3'-0" D.
10'-0"	2-7/8" O.D.	14" dia. x 3'-0" D.	4" O.D.	16" dia. x 3'-0" D.
12'-0"	4" O.D.	16" dia. x 3'-0" D.	4" O.D.	16" dia. x 3'-0" D.
14'-0"	4" O.D.	16" dia. x 3'-0" D.	5-5/8" O.D.	20" dia. x 3'-6" D.
16'-0"	4" O.D.	16" dia. x 3'-0" D.	5-5/8" O.D.	20" dia. x 3'-6" D.
18'-0"	4" O.D.	16" dia. x 3'-0" D.	5-5/8" O.D.	20" dia. x 3'-6" D.
20'-0"	---	---	6-5/8" O.D.	26" dia. x 4'-0" D.

Gate posts and footing sizes are minimum. When terminal posts are greater than gate posts, use terminal post and footing sizes for gate posts.

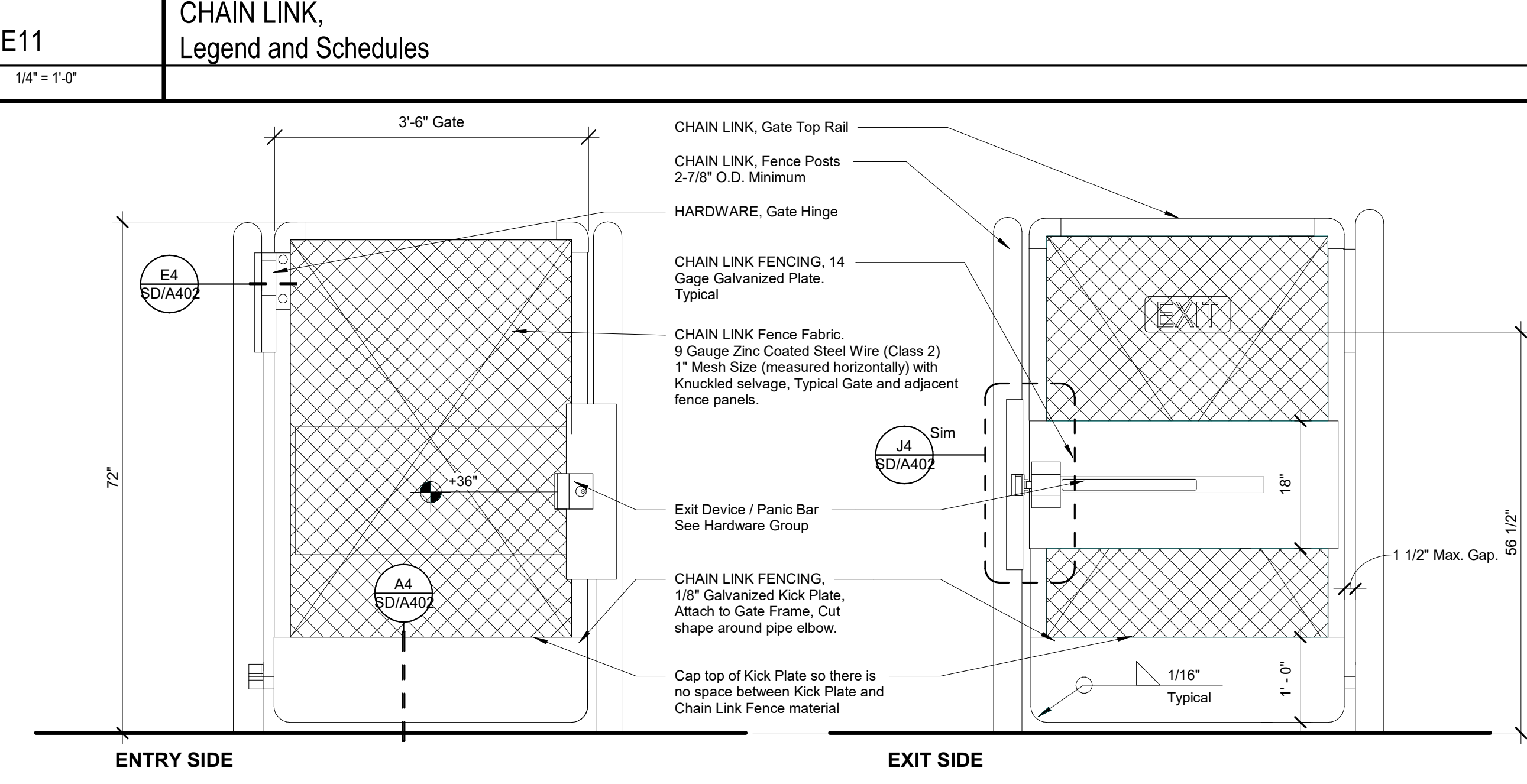
E11 CHAIN LINK, Legend and Schedules
 1/4" = 1'-0"



A4 CHAIN LINK, Site Gate Sill / Threshold
 3" = 1'-0"



A7 CHAIN LINK, Swing Gates, Hardware, Gate Stop
 3" = 1'-0"



A11 CHAIN LINK, Accessible Gate
 3/4" = 1'-0"

Mission Oak HS Aquatic Complex
 Tulare Joint Union High School District
 Tulare, CA 93274
 Project

SITE DEVELOPMENT
 DETAILS - CHAINLINK FENCE & GATES
 Drawing

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 Architect

DESIGNED BY: MF
 DRAWN BY: FM
 CHECKED BY: -
 REVIEWED BY: MF

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 Project Number: 2180
 Date: 12/13/2022

SD/A402
 Sheet: _____ of: _____

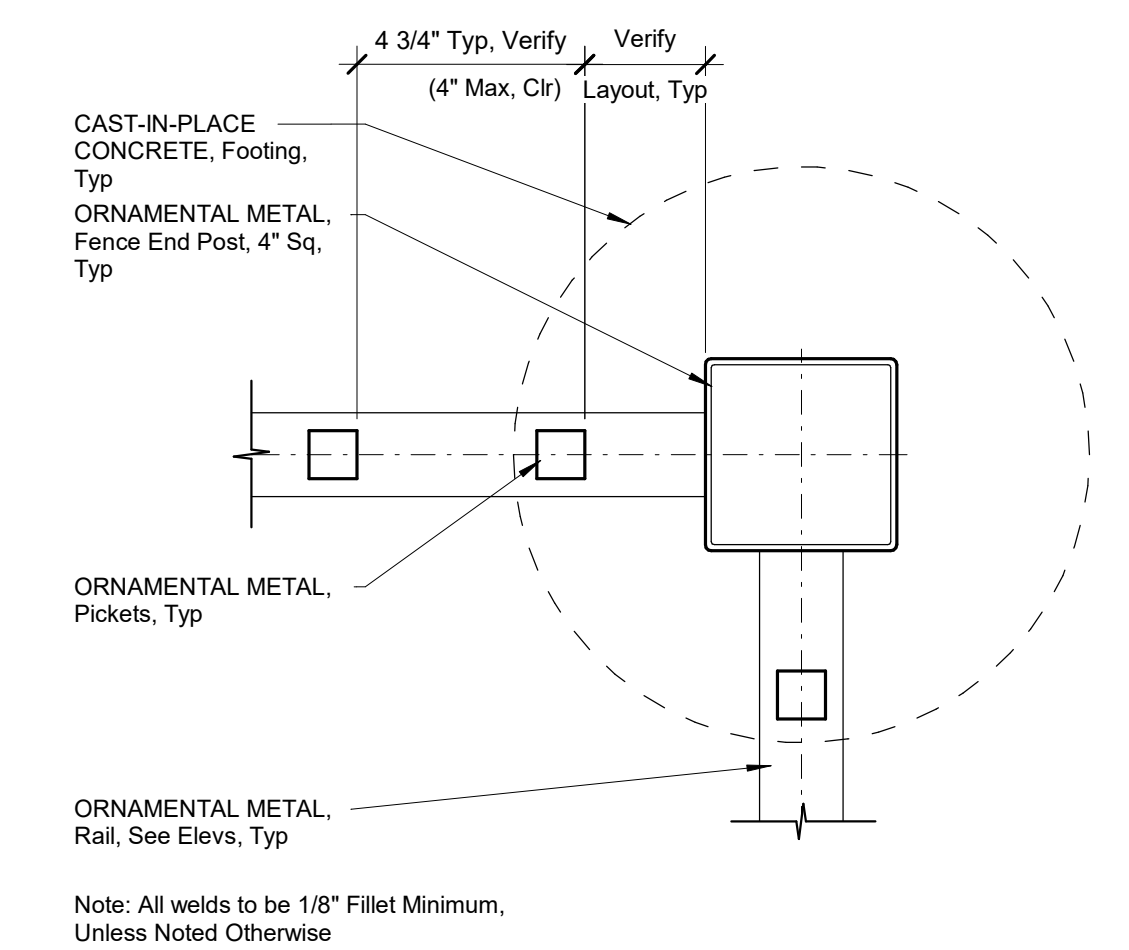
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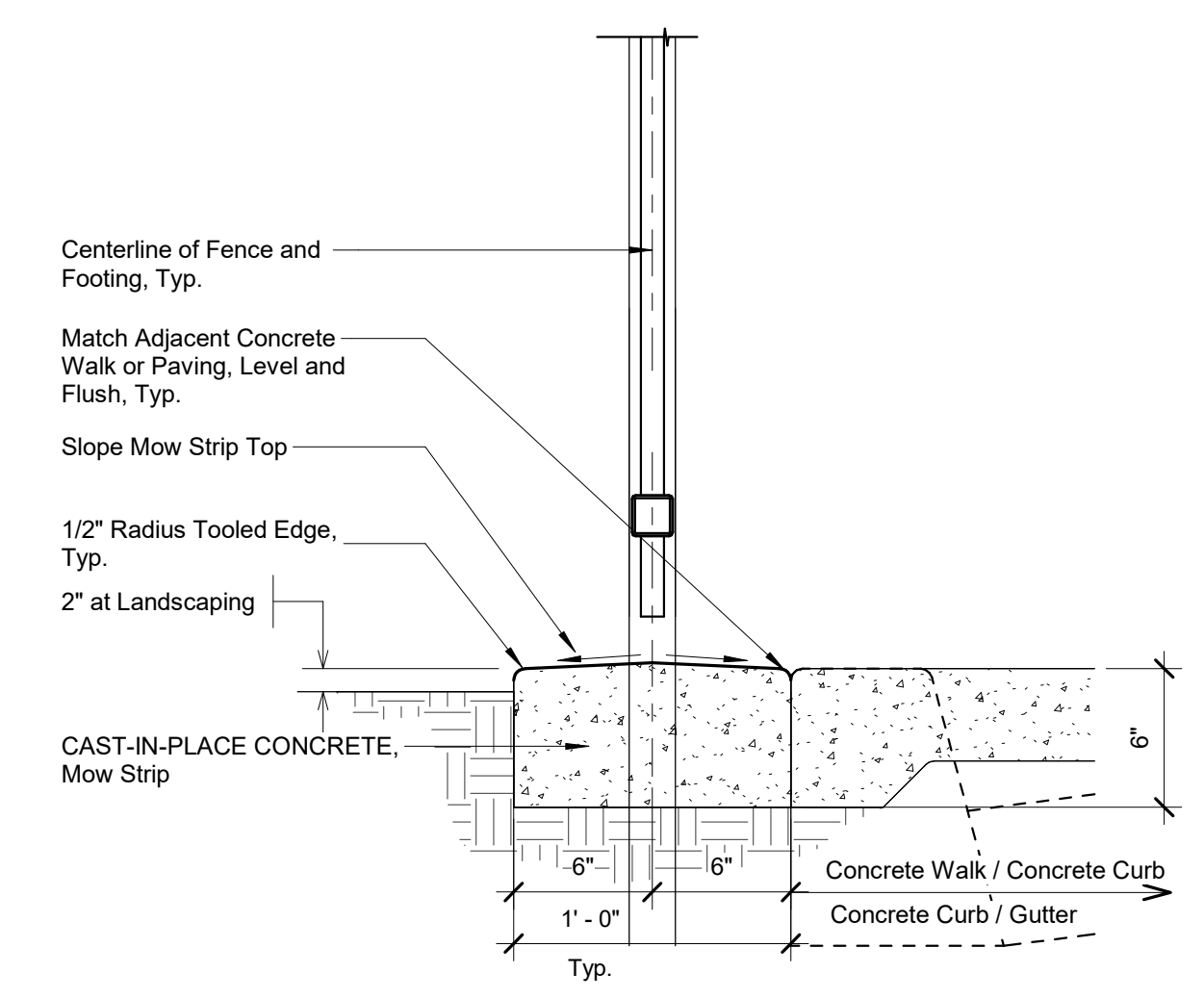
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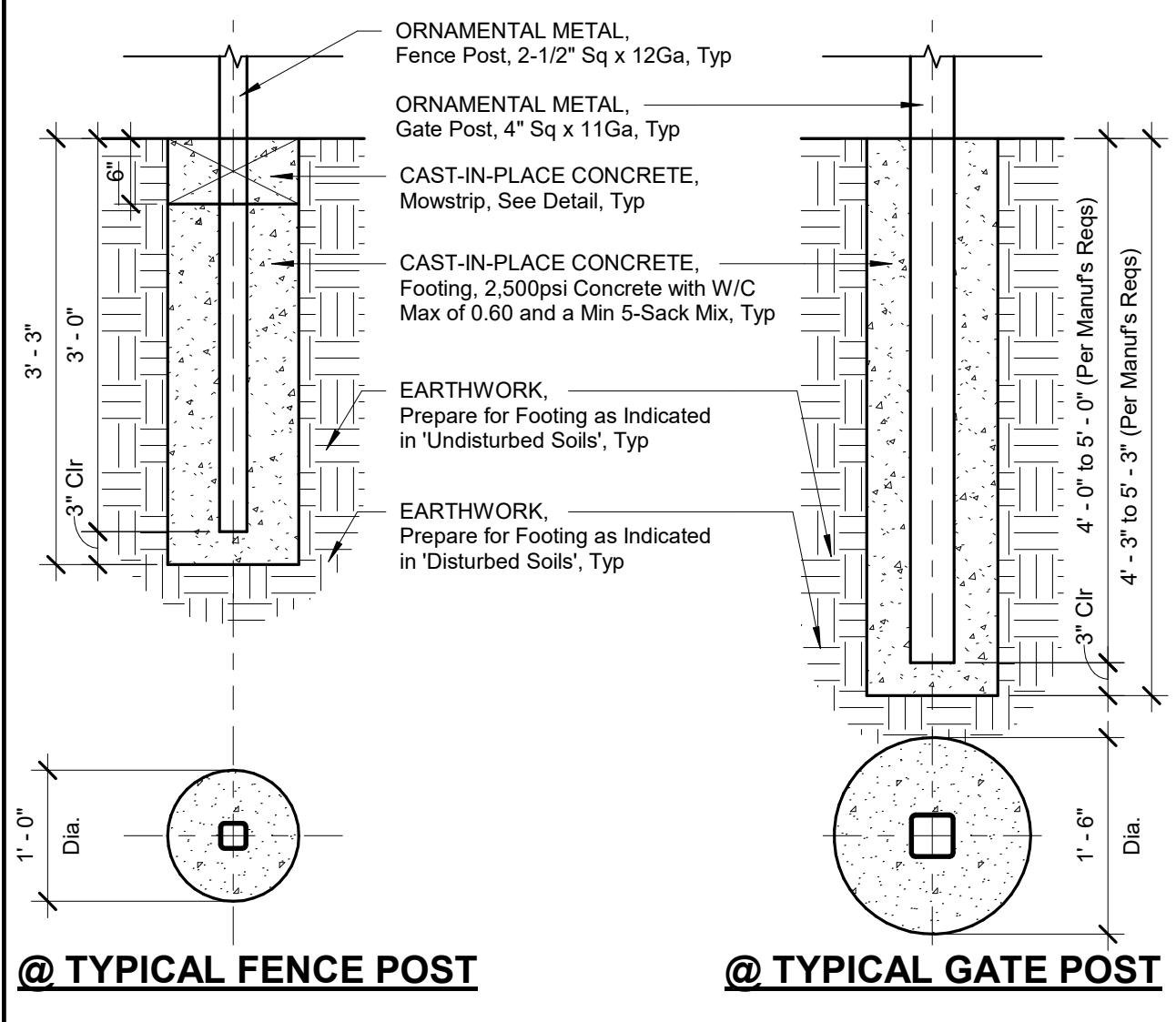
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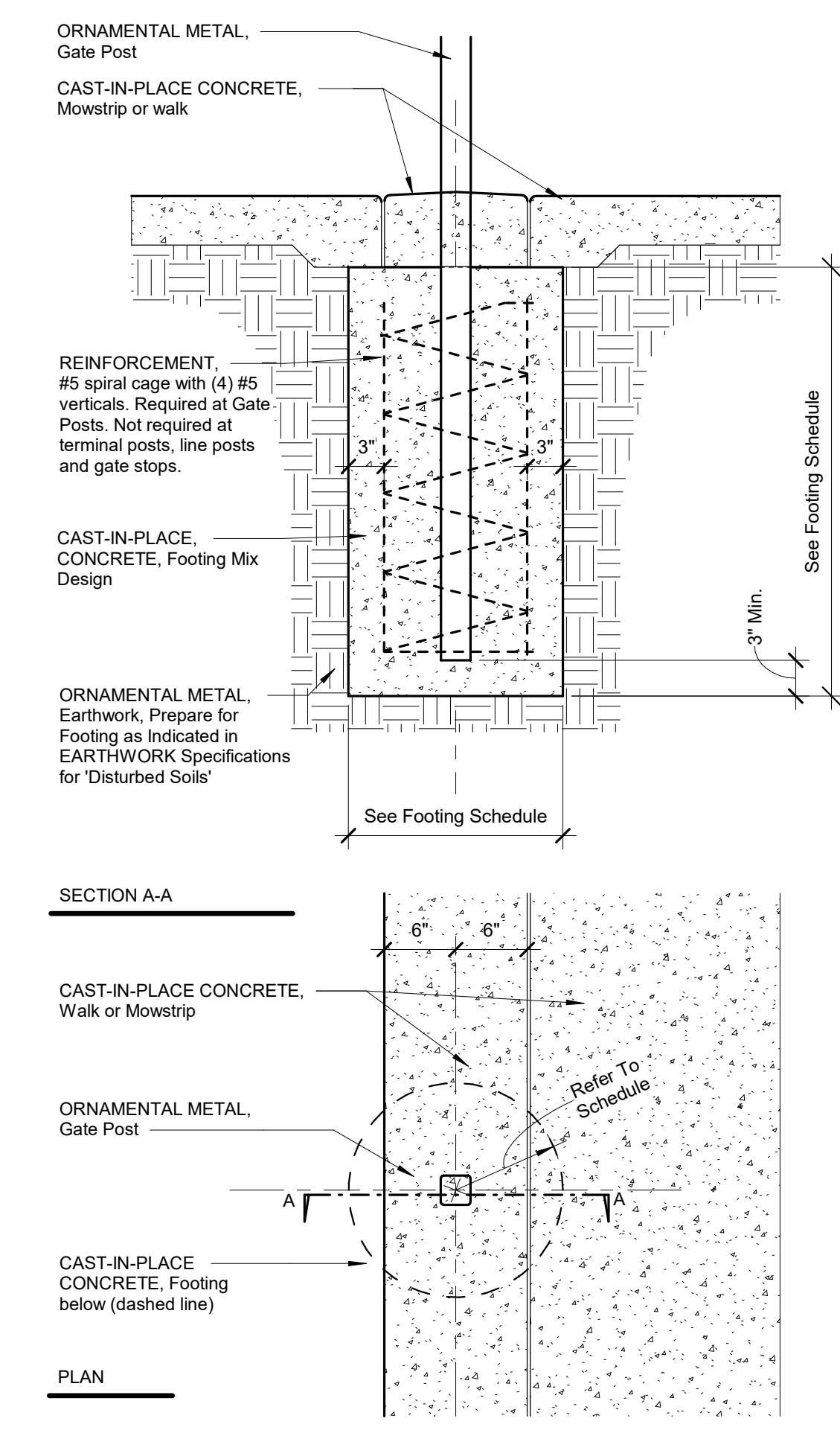
N14
ORNAMENTAL METAL, Fence Post Plan at Inside and Outside Corner
3" = 1'-0"



J11
CAST-IN-PLACE CONCRETE, Mow Strip
1 1/2" = 1'-0"



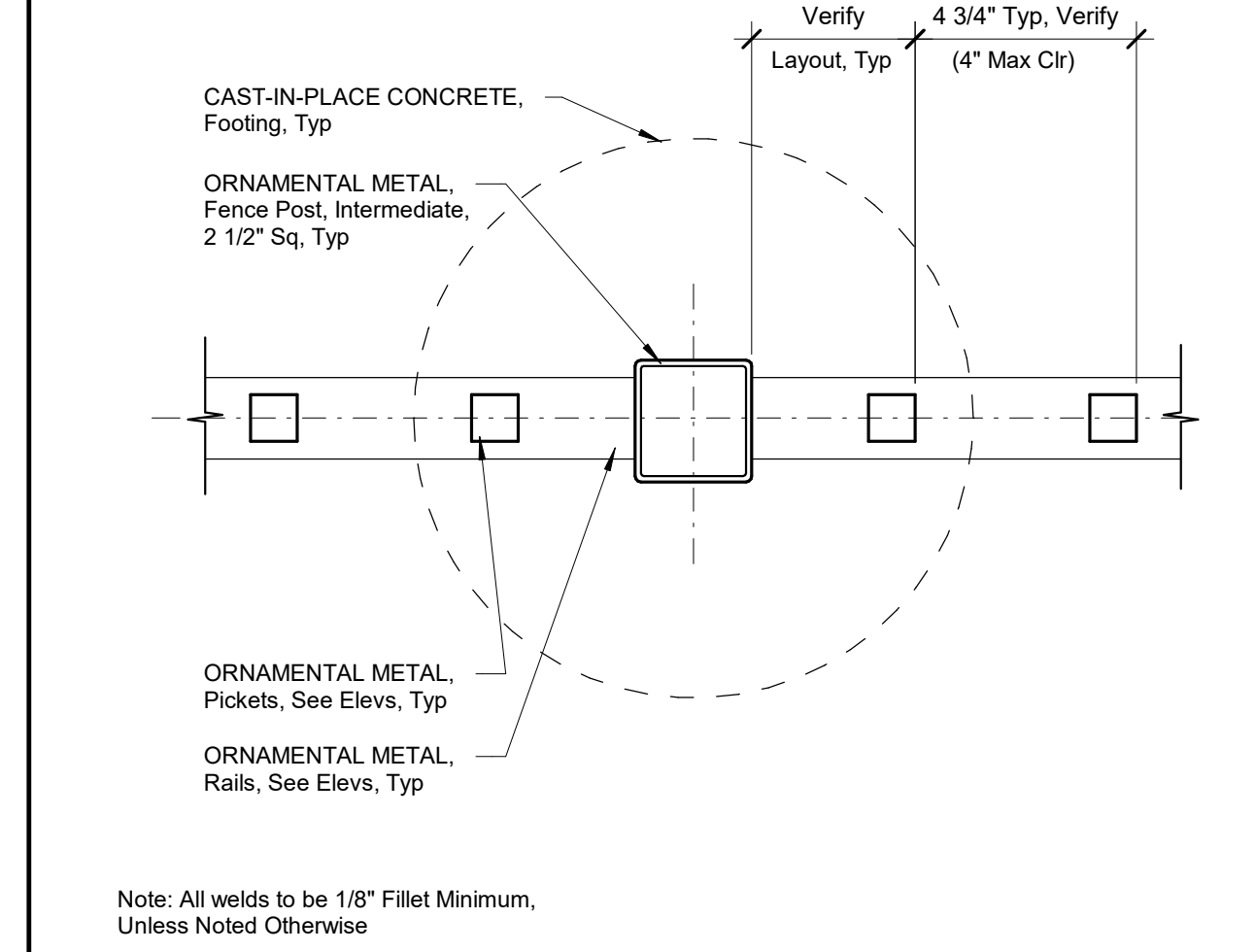
J14
ORNAMENTAL METAL, Fence / Gate Post Footing
3/4" = 1'-0"



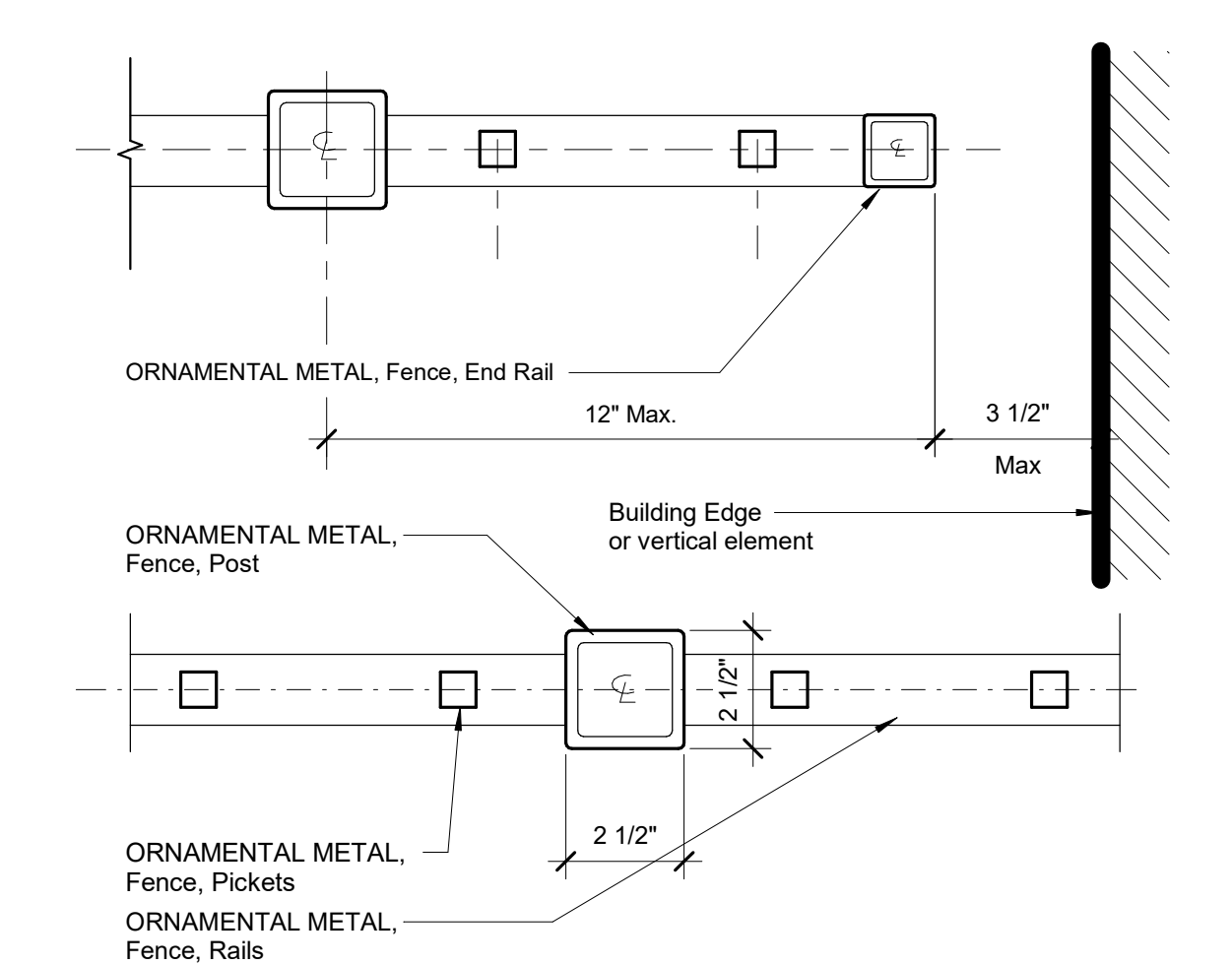
GATE POST FOOTING SCHEDULE	
LOCATION	POST FOOTING
3' - 4' Wide Gate	18" diameter x 4' - 6" deep
3' - 5' to 4' - 0" Wide Gate	24" diameter x 4' - 6" deep
Vehicle Gate, 20 Feet Max	24" diameter x 5' - 0" deep
Terminal or Line Post or Gate Stop	14" diameter x 3' - 6" deep

ORNAMENTAL METAL SCHEDULE	
Gate Frame Ends (Vertical)	2" x 2" x 12 ga.
Gate Frame Rails (Horizontal)	1 3/4" Square x 14 ga.
Fence Rails	1 3/4" x 1 3/4" x 12 ga.
Pickets	1" x 1" x 14 ga.
Fence Post	2 1/2" x 2 1/2" x 12 ga.
Gate Post	4" x 4" x 11 ga.
Gate Fence Stop	2" x 2" x 11 ga.
Post Cap	1/8" Plate

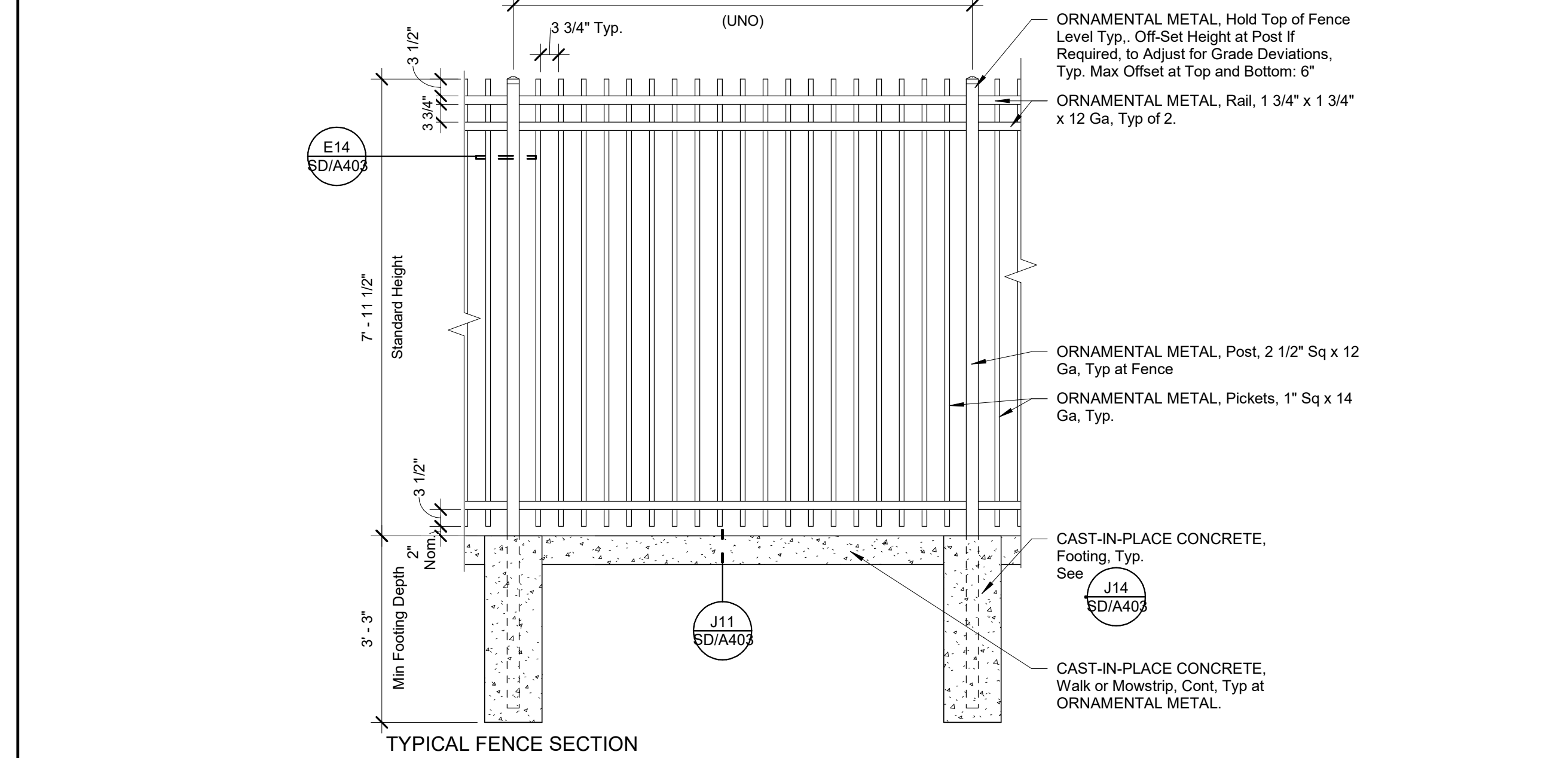
- Notes:
- All welds shall be grinded, smoothed and preped for primer and paint
 - All defective material shall be removed and replaced



E11
ORNAMENTAL METAL, Fence Post Plan
3" = 1'-0"



E14
ORNAMENTAL METAL, Plan Section
3" = 1'-0"



A11
ORNAMENTAL METAL, Fence and Gate Elevations
1/2" = 1'-0"
Not part of the DSA structural safety approval (DSA IR A-22)

A7
CAST-IN-PLACE, Fence Concrete Pier Reinforcement
1" = 1'-0"

Mission Oak HS Aquatic Complex
Tulare Joint Union High School District
Tulare, CA 93274 Project

SITE DEVELOPMENT
DETAILS - ORNAMENTAL METAL FENCE DETAILS
Drawing

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Revision

Designed By: MF Copyright 2022 Darden Architects
Scale: As indicated Drawn By: FM
Project Number: 2180 Checked By: -
Date: 12/13/2022 Reviewed By: MF

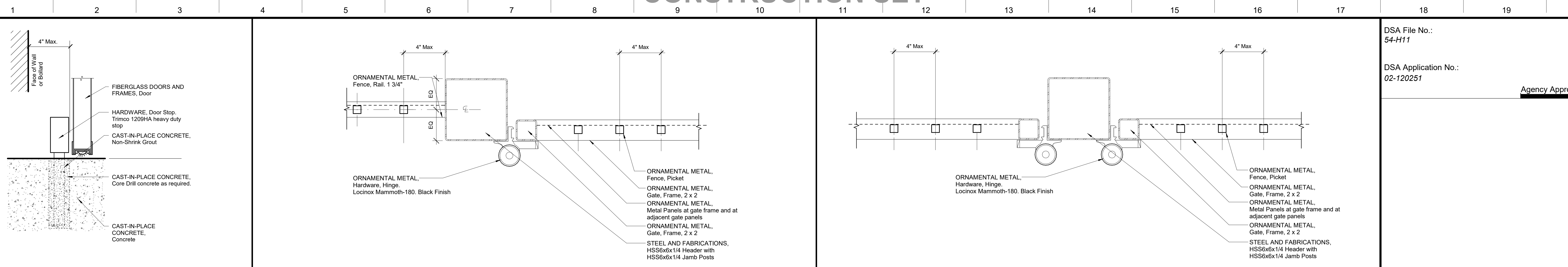
SD/A403

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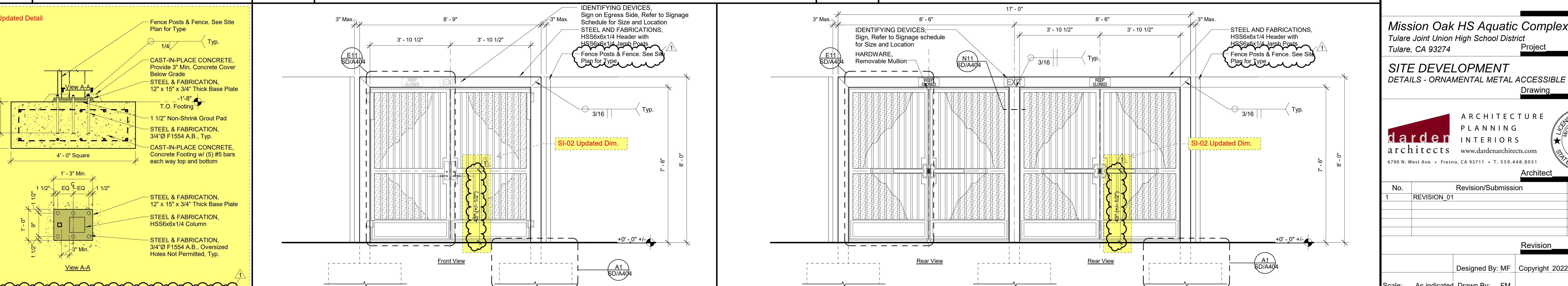
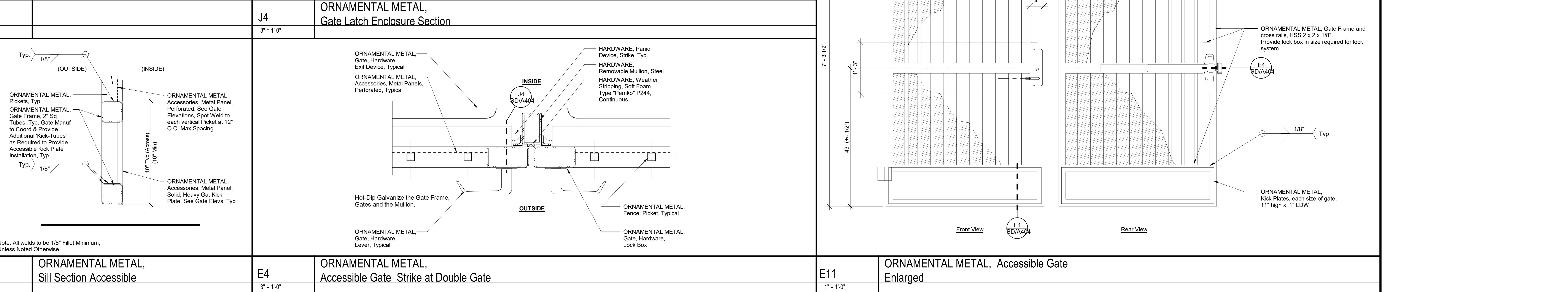
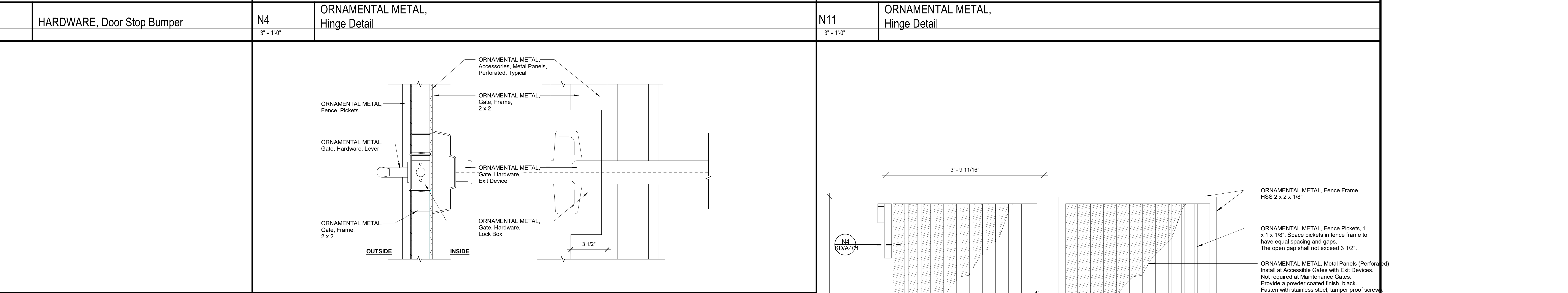
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CONSTRUCTION SET

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APP: 02-120251, INC.
REVISED FOR
SS ID: ACS ID
DATE: 08/28/2023



DSA File No.: 54-H11
DSA Application No.: 02-120251
Agency Approval



Mission Oak HS Aquatic Complex
Tulare Joint Union High School District
Tulare, CA 93274

SITE DEVELOPMENT
DETAILS - ORNAMENTAL METAL ACCESSIBLE GATES
Drawing

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No.	Revision/Submission	Date
1	REVISION_01	05/31/2023

Revision
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Project Number: 2180
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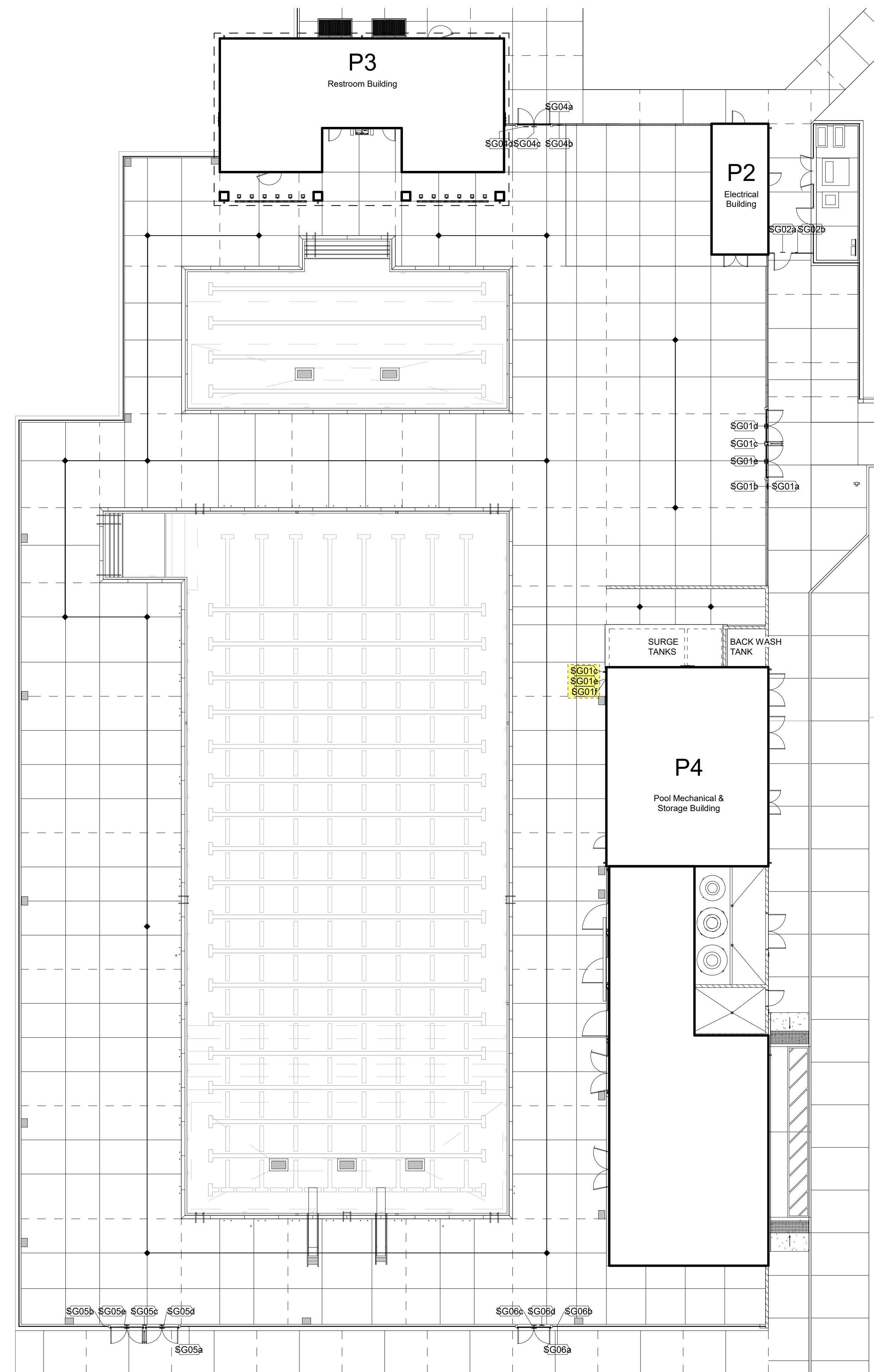
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CONSTRUCTION SET

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APP: 02-120251, INC.
REVIEWED FOR
SS ID: PLS ID: ACS ID
DATE: 08/28/2023

Signage Schedule Site												
Building	Sign Mark	Sign Type	Sign Material	Sign Copy Line 1	Sign Copy Line 2	Sign Copy Line 3	Sign Copy Line 4	Sign Copy Line 5	Mtg Height	Mtg Cond	Remarks	
R	SITE	SG01c	3b	EM	THE NUMBER OF PEOPLE	PERMITTED ON THE POOL DECK	SHALL NOT EXCEED	2814 BY ORDER OF THE	STATE FIRE MARSHALL	6' - 0"	3	See Exterior Elevation A1-P/A402
Q	SITE	SG01e	3b	EM	THE NUMBER OF PEOPLE	PERMITTED IN THE COMPETITION POOL	SHALL NOT EXCEED	256 BY ORDER OF THE	STATE FIRE MARSHALL	5' - 4"	3	See Exterior Elevation A1-P/A402
Q	SITE	SG01f	3b	EM	THE NUMBER OF PEOPLE	PERMITTED IN THE WARM UP POOL	SHALL NOT EXCEED	51 BY ORDER OF THE	STATE FIRE MARSHALL	4' - 8"	3	See Exterior Elevation A1-P/A402
P	SITE	SG01b	6a	EM	EXIT	N/A	N/A	-	5' - 0"	6	-	
P	SITE	SG02b	6a	EM	EXIT	N/A	N/A	-	5' - 0"	6	-	
P	SITE	SG04b	6a	EM	EXIT	N/A	N/A	-	5' - 0"	6	-	
P	SITE	SG05b	6a	EM	EXIT	N/A	N/A	-	5' - 0"	6	-	
P	SITE	SG06b	6a	EM	EXIT	N/A	N/A	-	5' - 0"	6	-	
P	SITE	SG01a	21	EM	NOTICE	N/A	-	-	6' - 0"	6	-	
P	SITE	SG04a	21	EM	NOTICE	N/A	-	-	6' - 0"	6	-	
P	SITE	SG05a	21	EM	NOTICE	N/A	-	-	6' - 0"	6	-	
P	SITE	SG06a	21	EM	NOTICE	N/A	-	-	6' - 0"	6	-	
N	SITE	SG01c	22a	EM	EXIT	N/A	N/A	N/A	7' - 9"	6	-	
N	SITE	SG02a	22a	EM	EXIT	N/A	N/A	N/A	7' - 9"	6	-	
N	SITE	SG04c	22a	EM	EXIT	N/A	N/A	N/A	7' - 9"	6	-	
N	SITE	SG04d	22a	EM	KEEP	CLOSED	N/A	N/A	7' - 9"	6	-	
N	SITE	SG05c	22a	EM	EXIT	N/A	N/A	N/A	7' - 9"	6	-	
N	SITE	SG06c	22a	EM	EXIT	N/A	N/A	N/A	7' - 9"	6	-	
N	SITE	SG01d	23a	EM	KEEP	CLOSED	N/A	N/A	7' - 9"	6	-	
N	SITE	SG01e	23a	EM	KEEP	CLOSED	N/A	N/A	7' - 9"	6	-	
N	SITE	SG05d	23a	EM	KEEP	CLOSED	N/A	N/A	7' - 9"	6	-	
N	SITE	SG05e	23a	EM	KEEP	CLOSED	N/A	N/A	7' - 9"	6	-	
M	SITE	SG06d	23a	EM	KEEP	CLOSED	N/A	N/A	7' - 9"	6	-	

SG01d Sign Removed

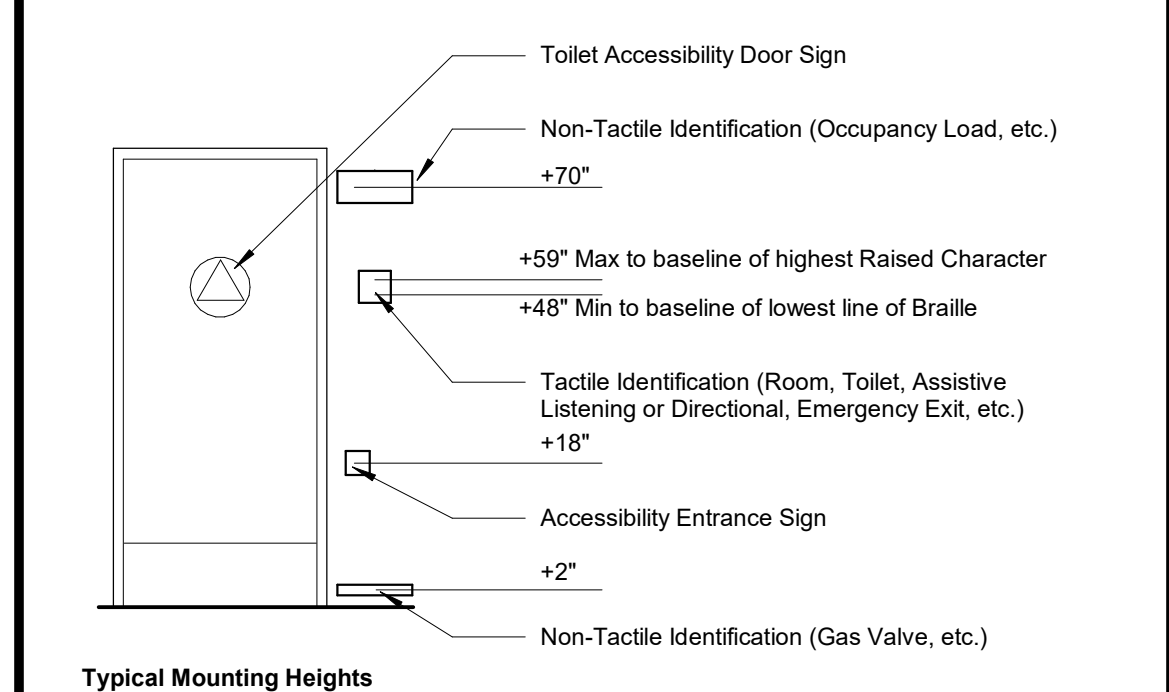
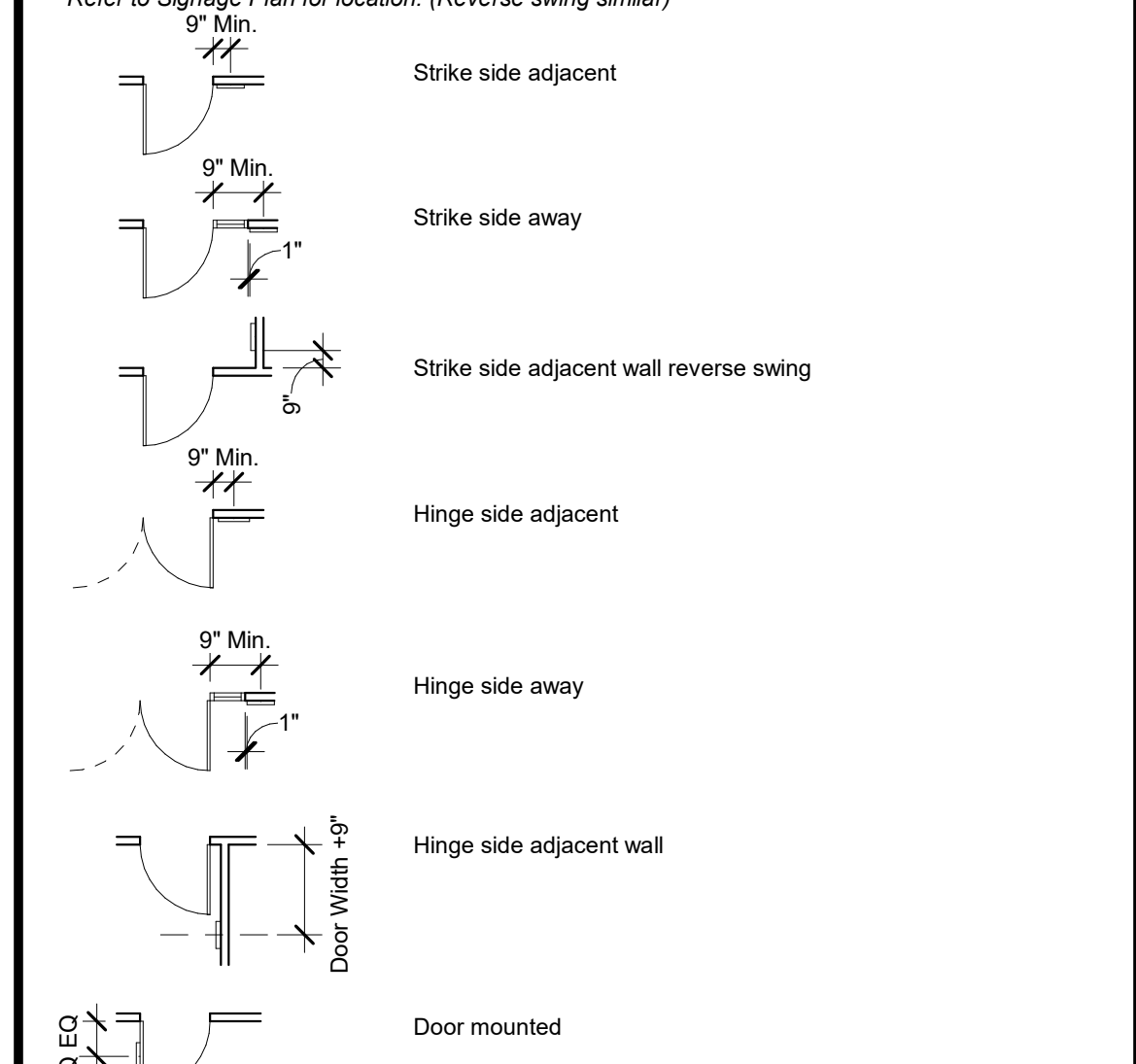


DSA File No.: 54-H11

DSA Application No.: 02-120251

Agency Approval	
MOUNTING CONDITION	SIGN MATERIAL
1. Metal Stud Framed Wall	A = Acrylic
2. Wood Stud Framed Wall	EM = Exterior Metal
3. Concrete and Concrete Masonry	IM = Interior Metal
4. Glass	EP = Exterior Plastic
5. Door	IP = Interior Plastic
6. See Plan	D = Decal

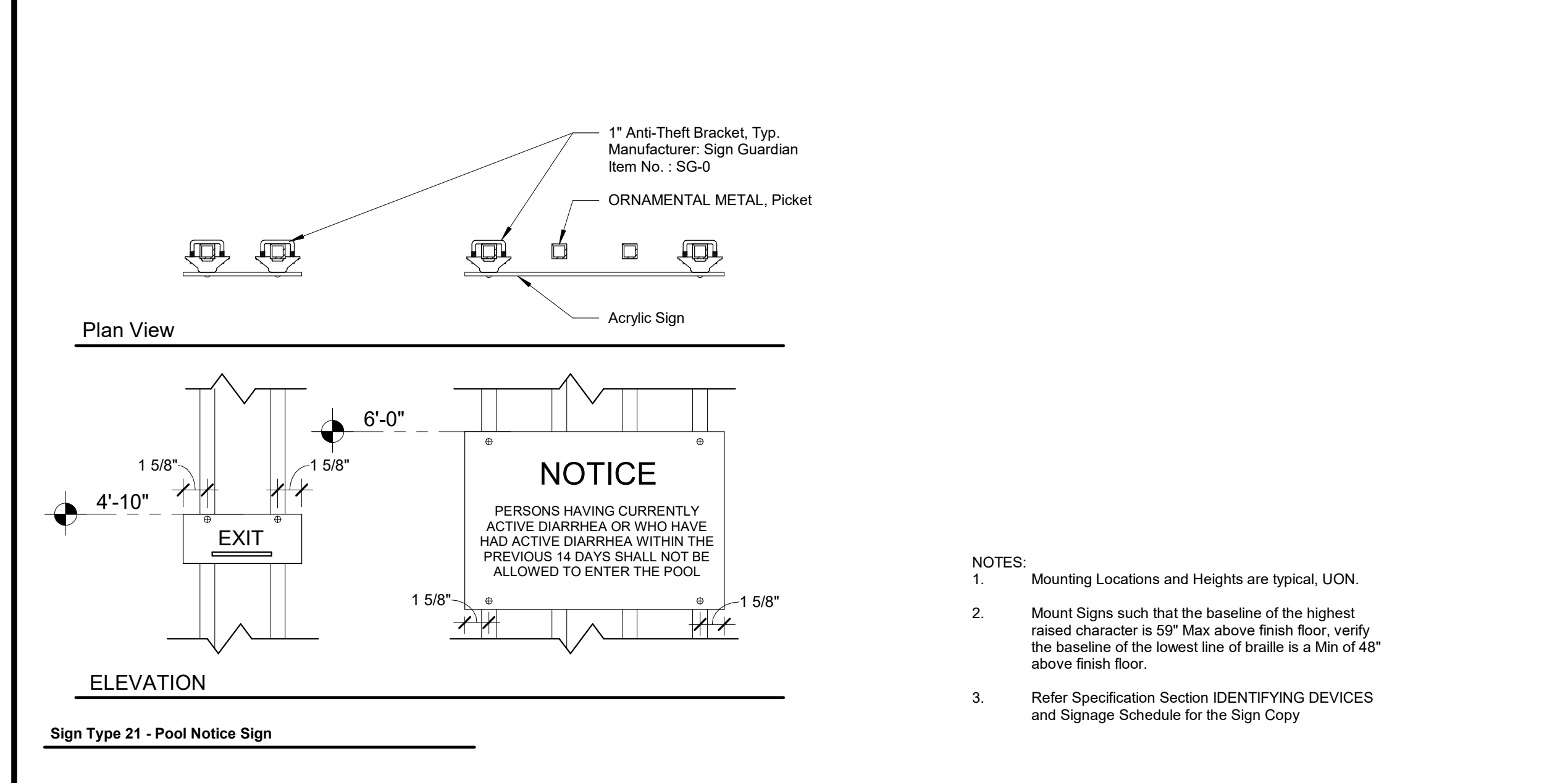
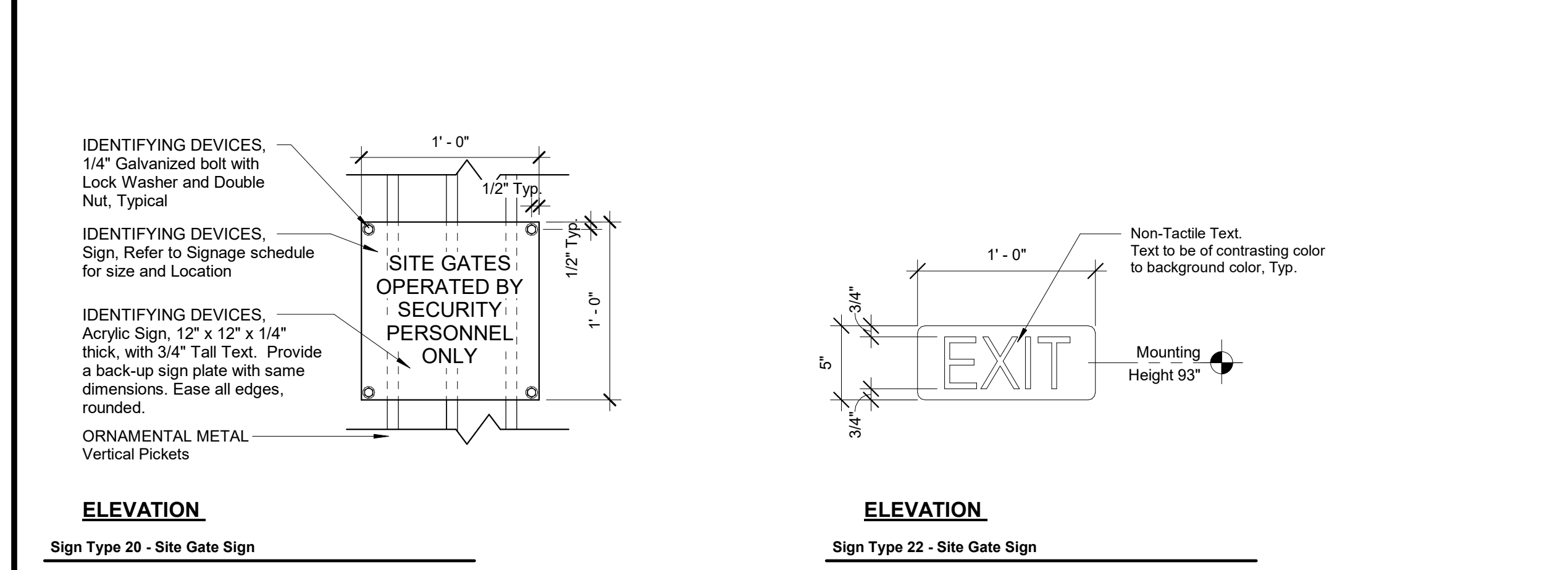
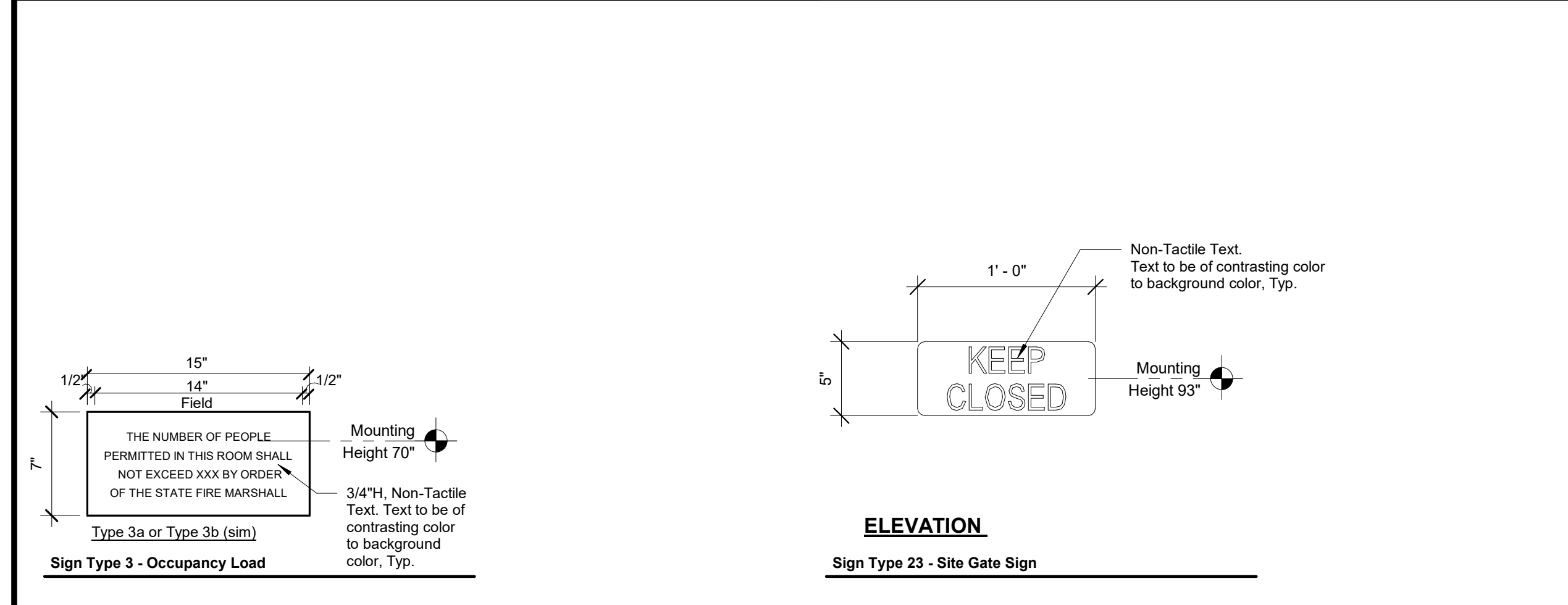
MOUNTING LOCATION
Refer to Signage Plan for location. (Reverse swing similar)



Typical Mounting Heights
Scale: N.T.S.

- NOTES**
- Refer to Specification Section IDENTIFYING DEVICES.
 - Refer to Plan for Mounting Location.
 - Verify Sign Copy with Owner prior to fabrication, "--" indicates a blank space.
 - For IDENTIFYING DEVICES, Signage Dimensions, refer to detail A1 SD/A70.

L1 Signage Schedule	
No Scale	Refer to L18 for Schedule Legend



- NOTES**
- Mounting Locations and Heights are typical, UON.
 - Mount Signs such that the baseline of the highest raised character is 9" Max above finish floor, verify the baseline of the lowest line of braille is a Min of 48" above finish floor.
 - Refer Specification Section IDENTIFYING DEVICES and Signage Schedule for the Sign Copy

G18 Signage Schedule Legend	
No Scale	

Mission Oak HS Aquatic Complex
Tulare Joint Union High School District
Tulare, CA 93274 Project

SITE DEVELOPMENT
SIGNAGE PLAN AND SCHEDULE
Drawing

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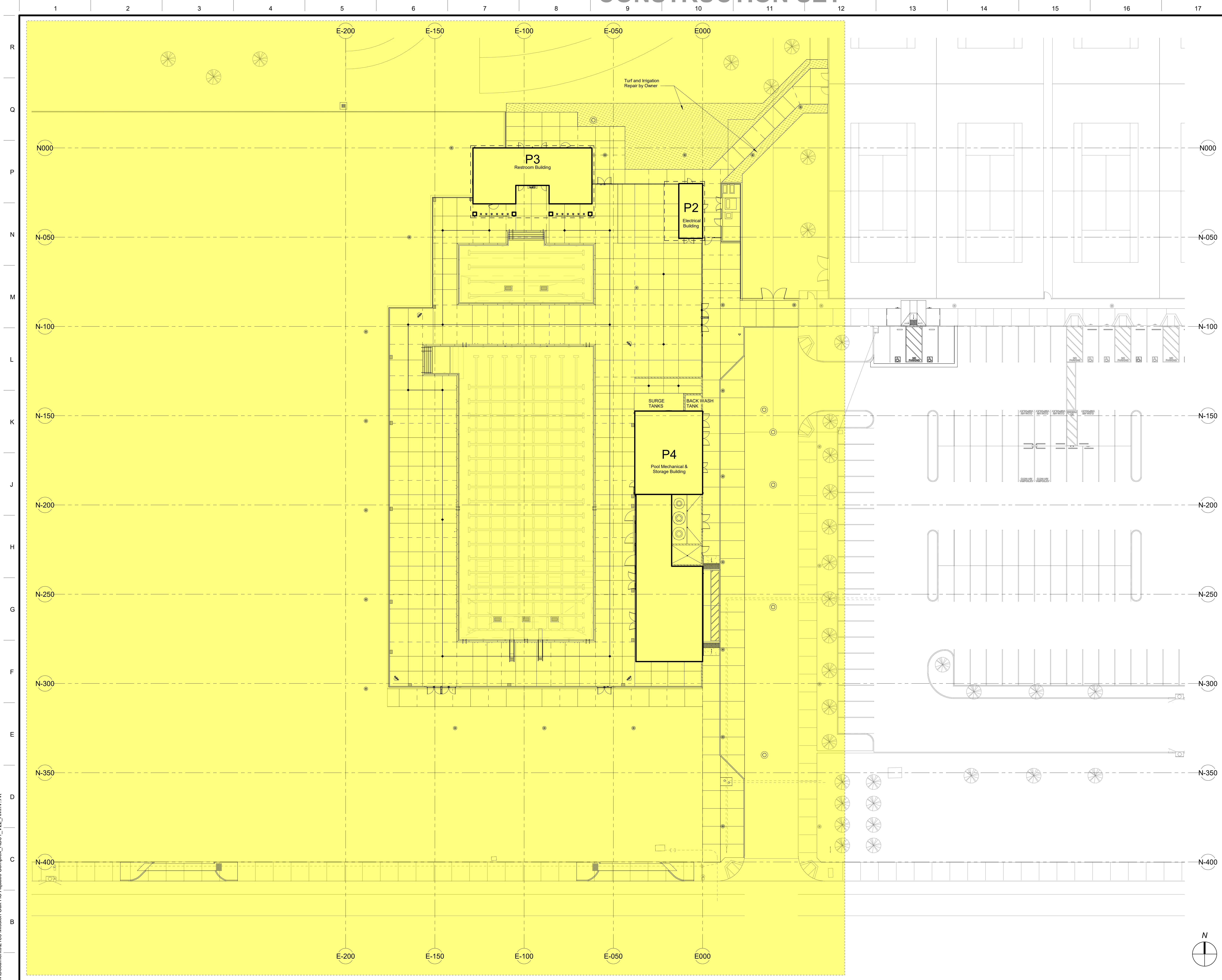
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A1 IDENTIFYING DEVICES, Signage Locations and Dimensions		A7 Signage Site Plan	
1/12" = 1'-0"		1/16" = 1'-0"	

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CONSTRUCTION SET

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02-120251

Agency Approval

Mission Oak HS Aquatic Complex
Tulare Joint Union High School District
Tulare, CA 93274

SITE DEVELOPMENT
LANDSCAPING PLAN

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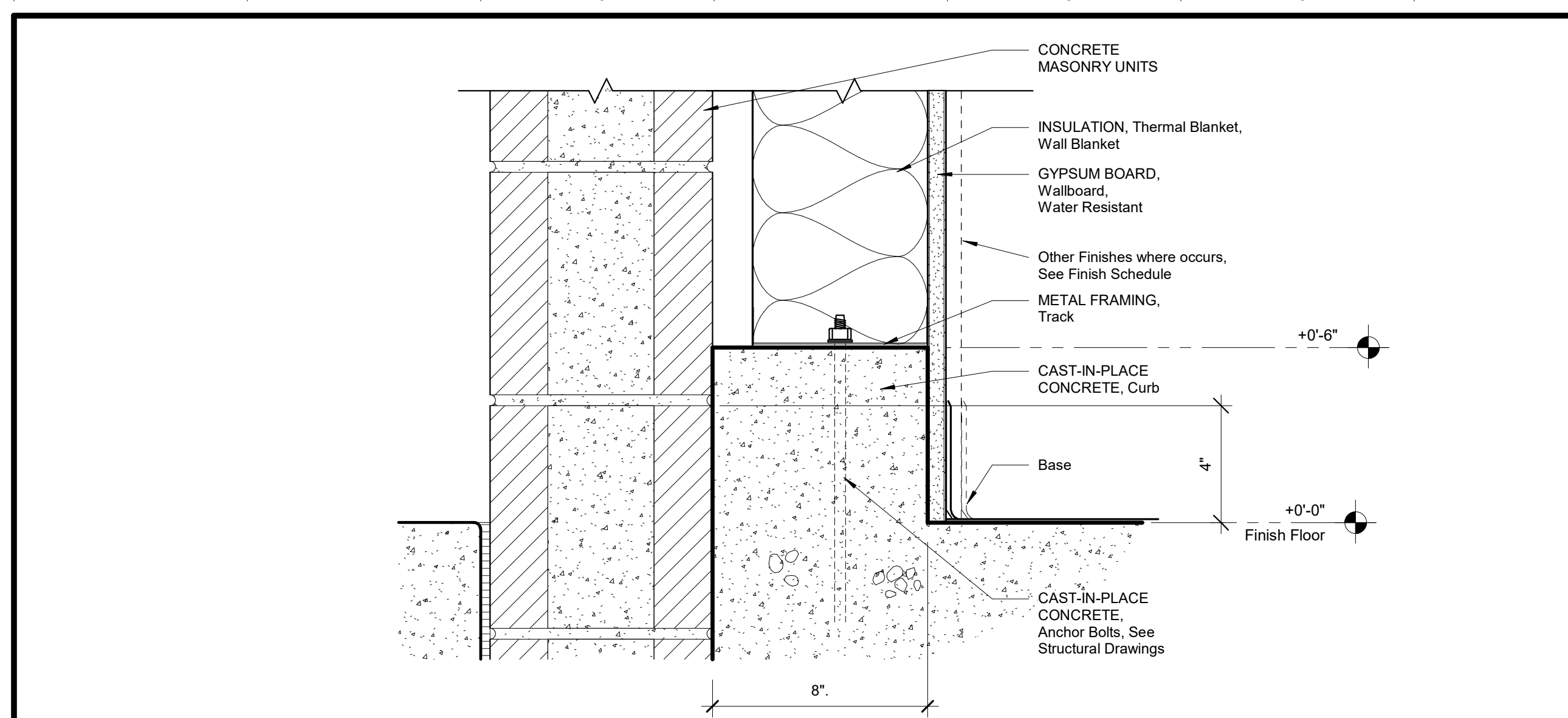
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Designed By: MF	Copyright 2022 Darden Architects
Scale: 1" = 20'-0"	Drawn By: FM
Project Number: 2180	Checked By: -
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SD/L101

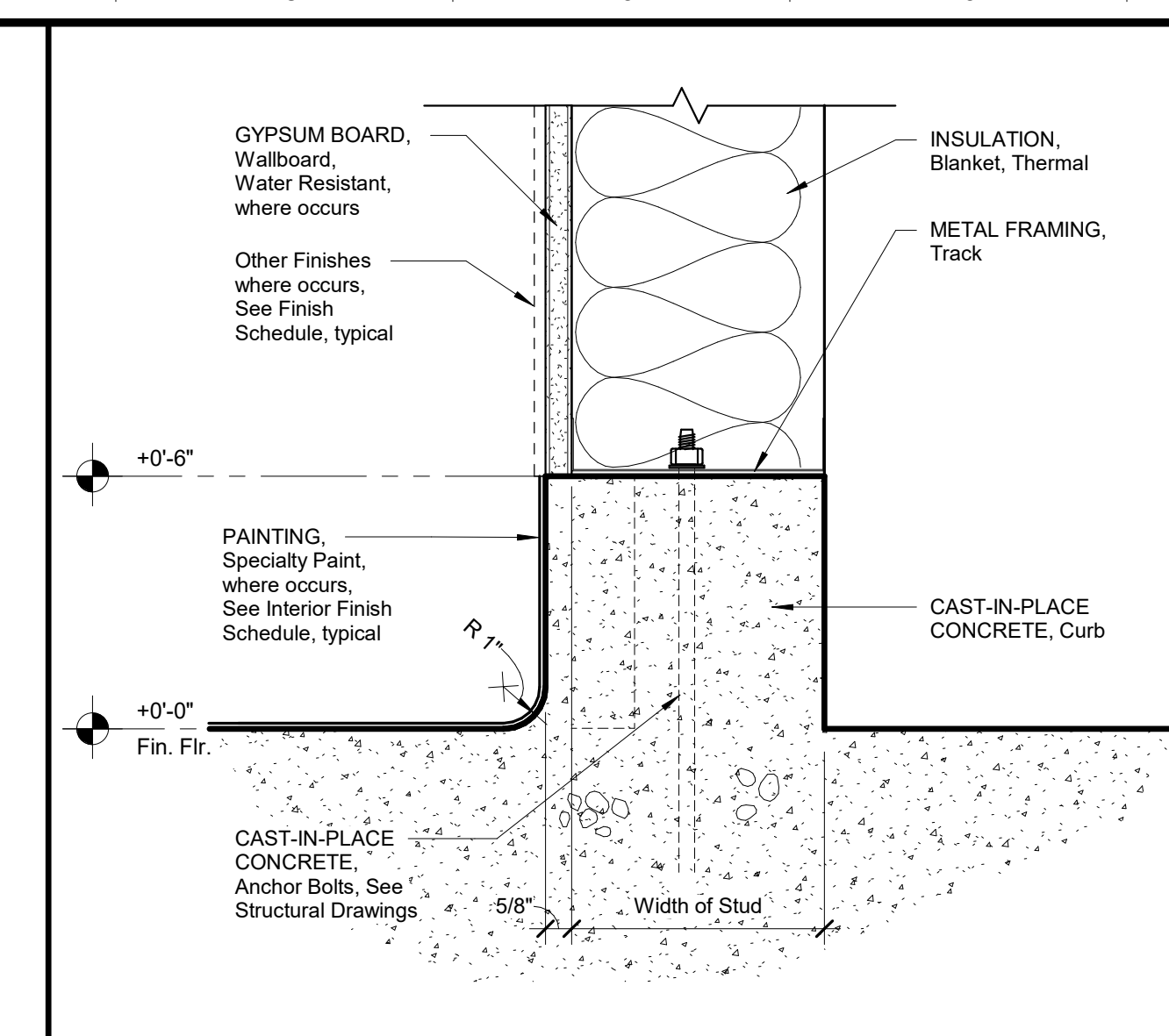
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A1 Partial Site Plan
1" = 20'-0"

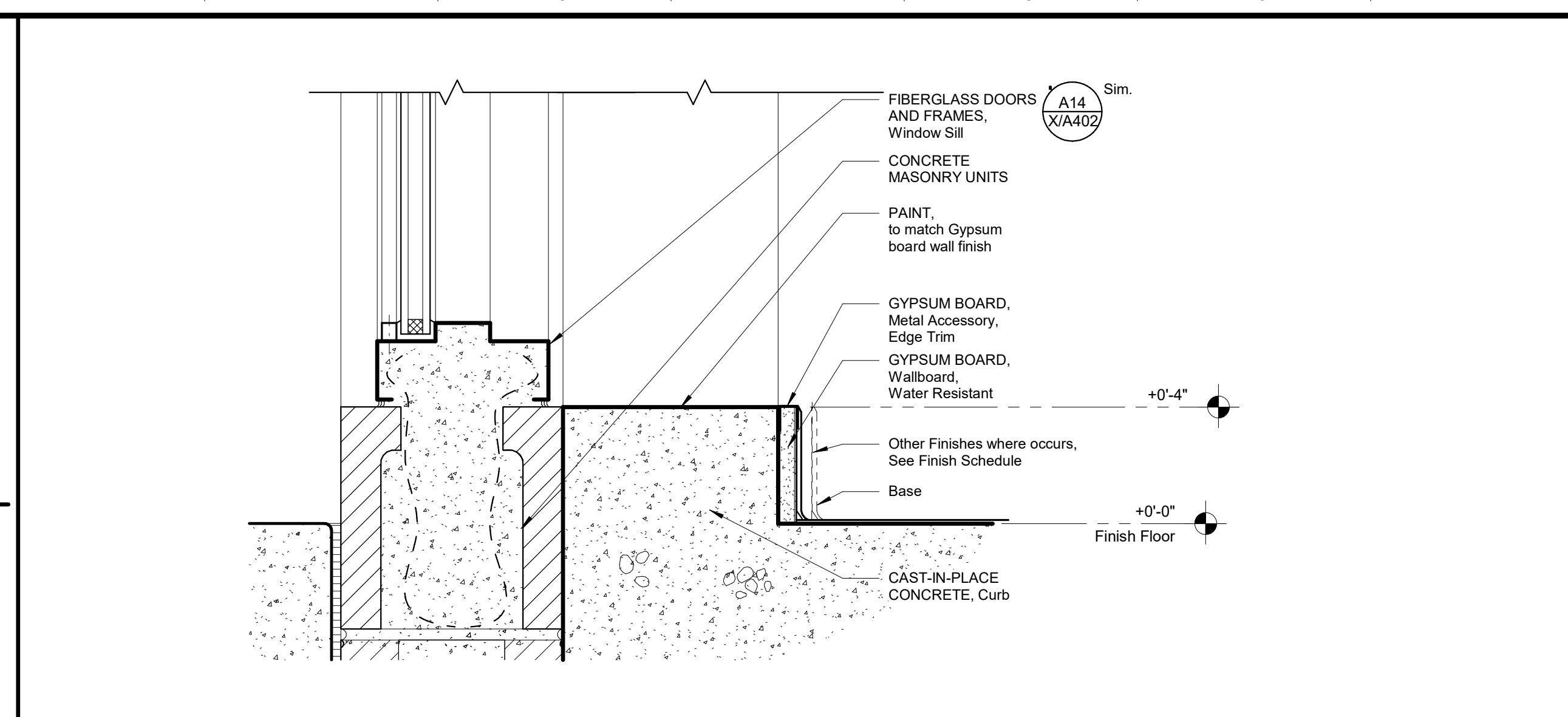
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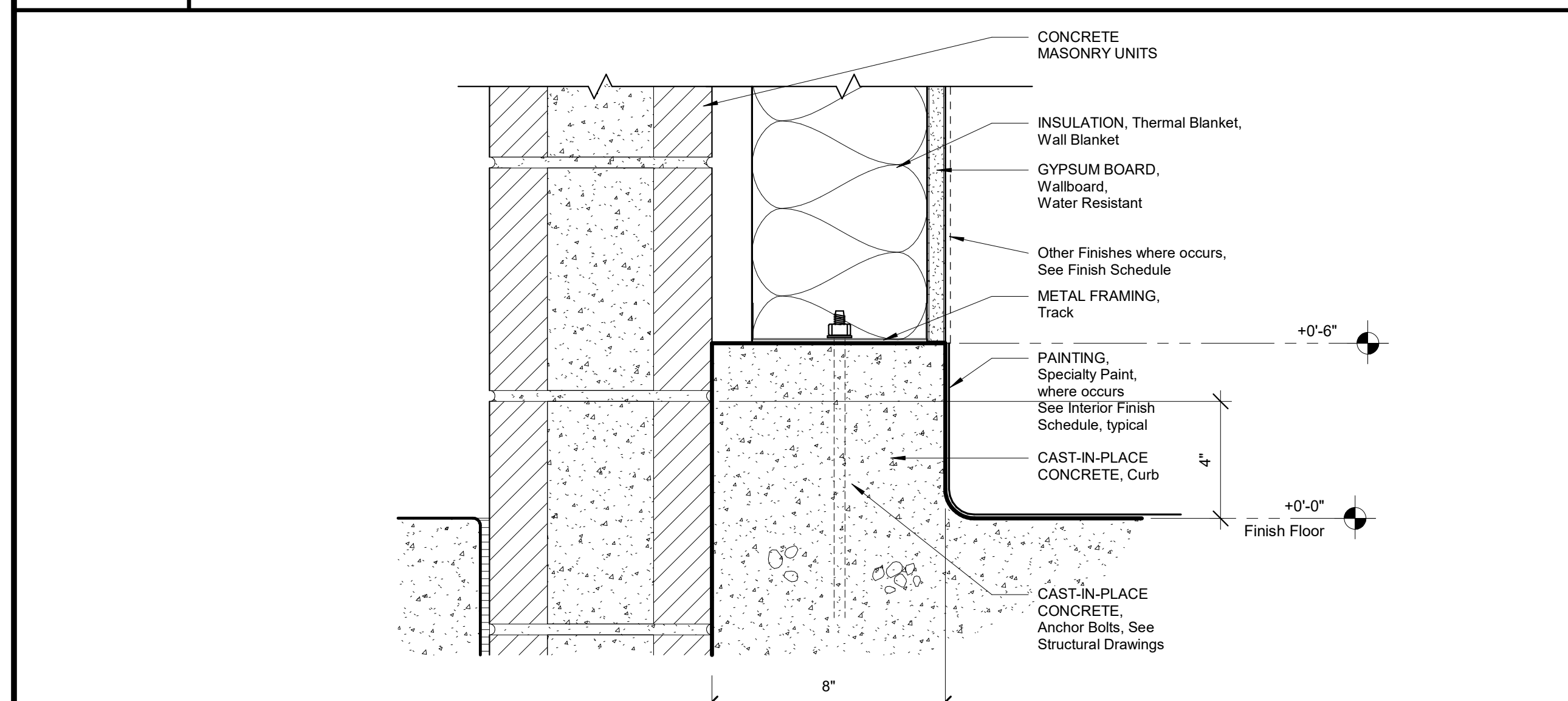
N1 CAST-IN-PLACE CONCRETE, Concrete Curb at Exterior Wall
3" = 1'-0"



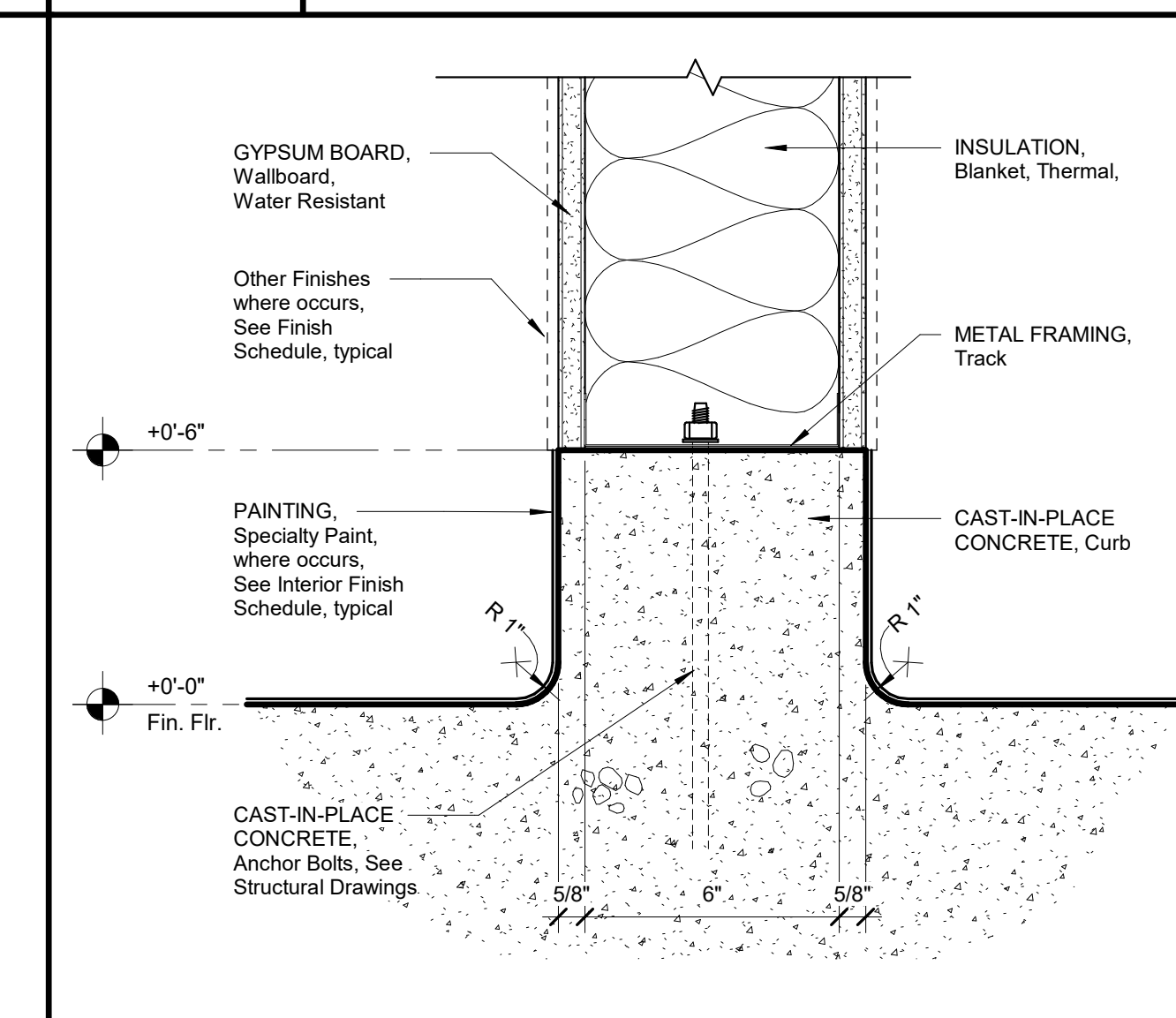
N7 CAST-IN-PLACE CONCRETE, Concrete Curb at Interior Wall
3" = 1'-0"



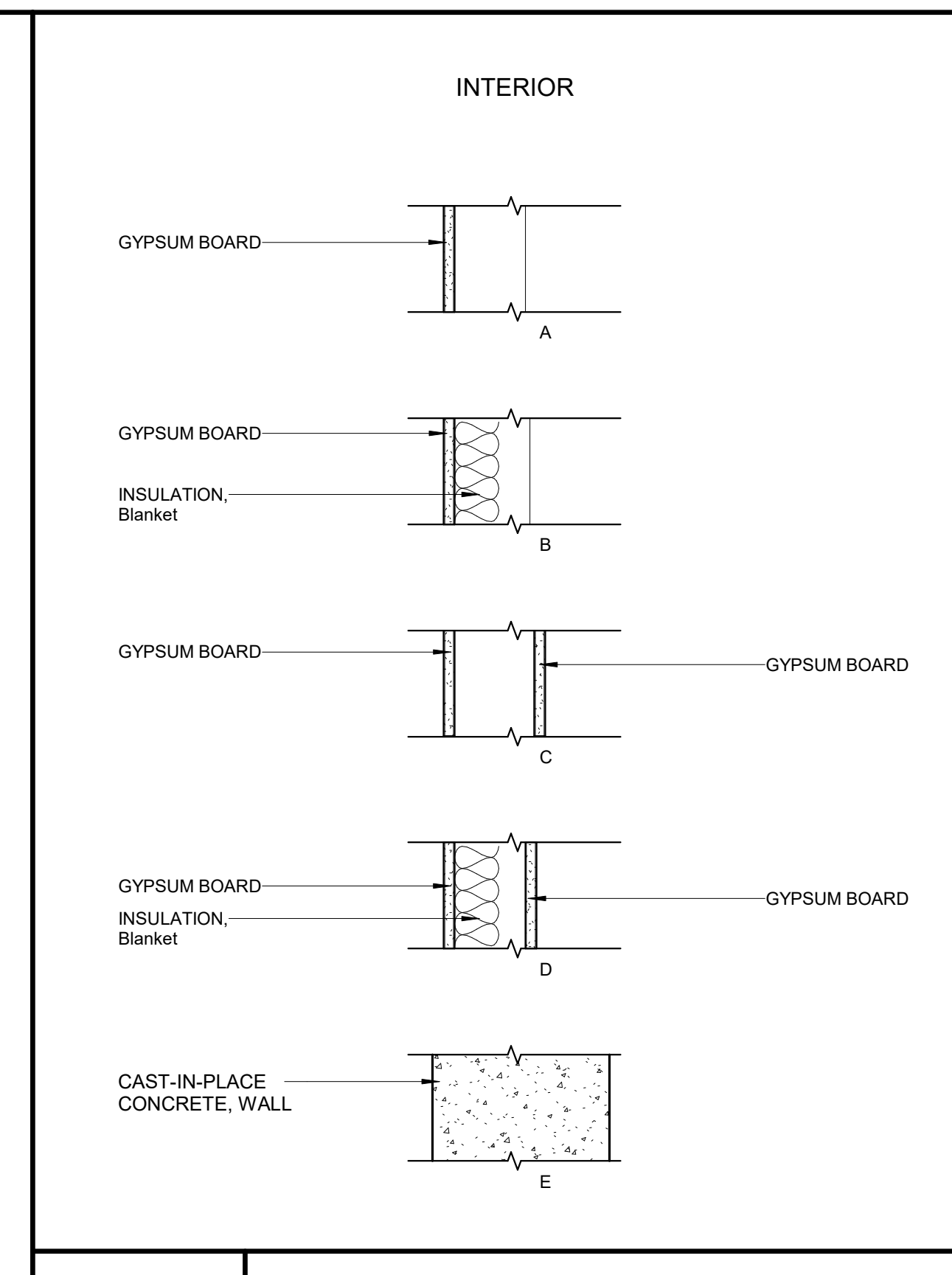
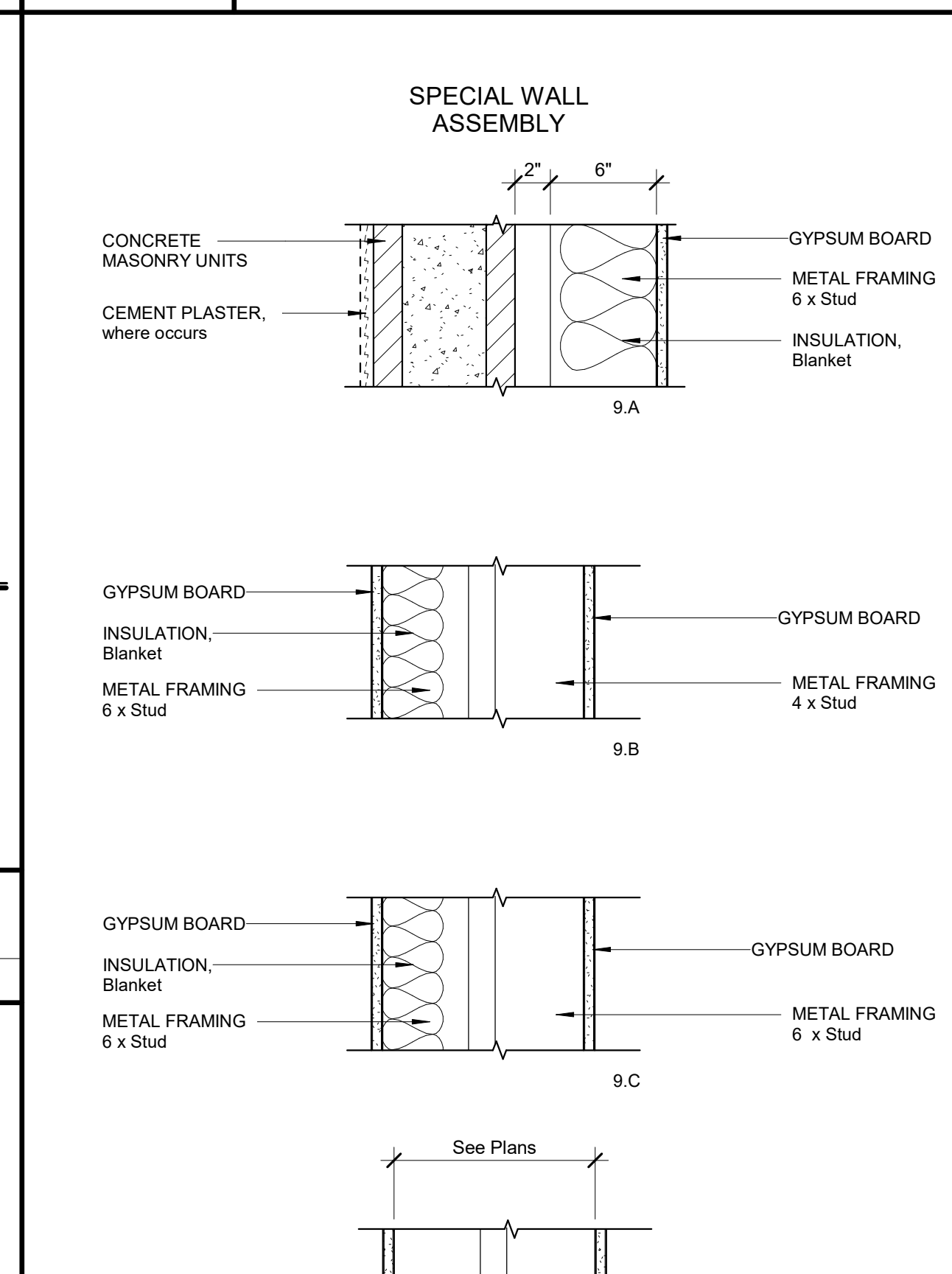
N11 CAST-IN-PLACE CONCRETE, Concrete Curb at Exterior Wall
3" = 1'-0"



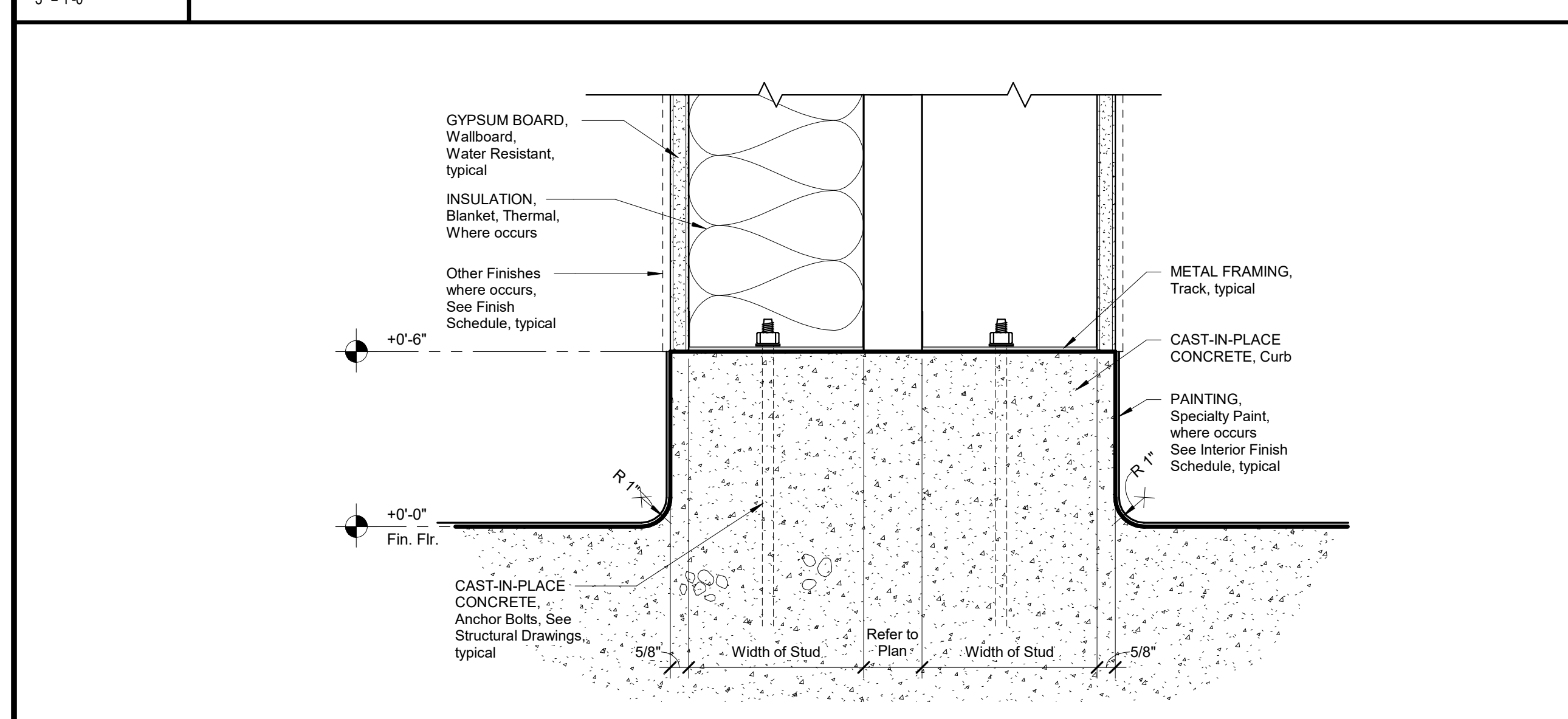
J1 CAST-IN-PLACE CONCRETE, Concrete Curb at Exterior Wall
3" = 1'-0"



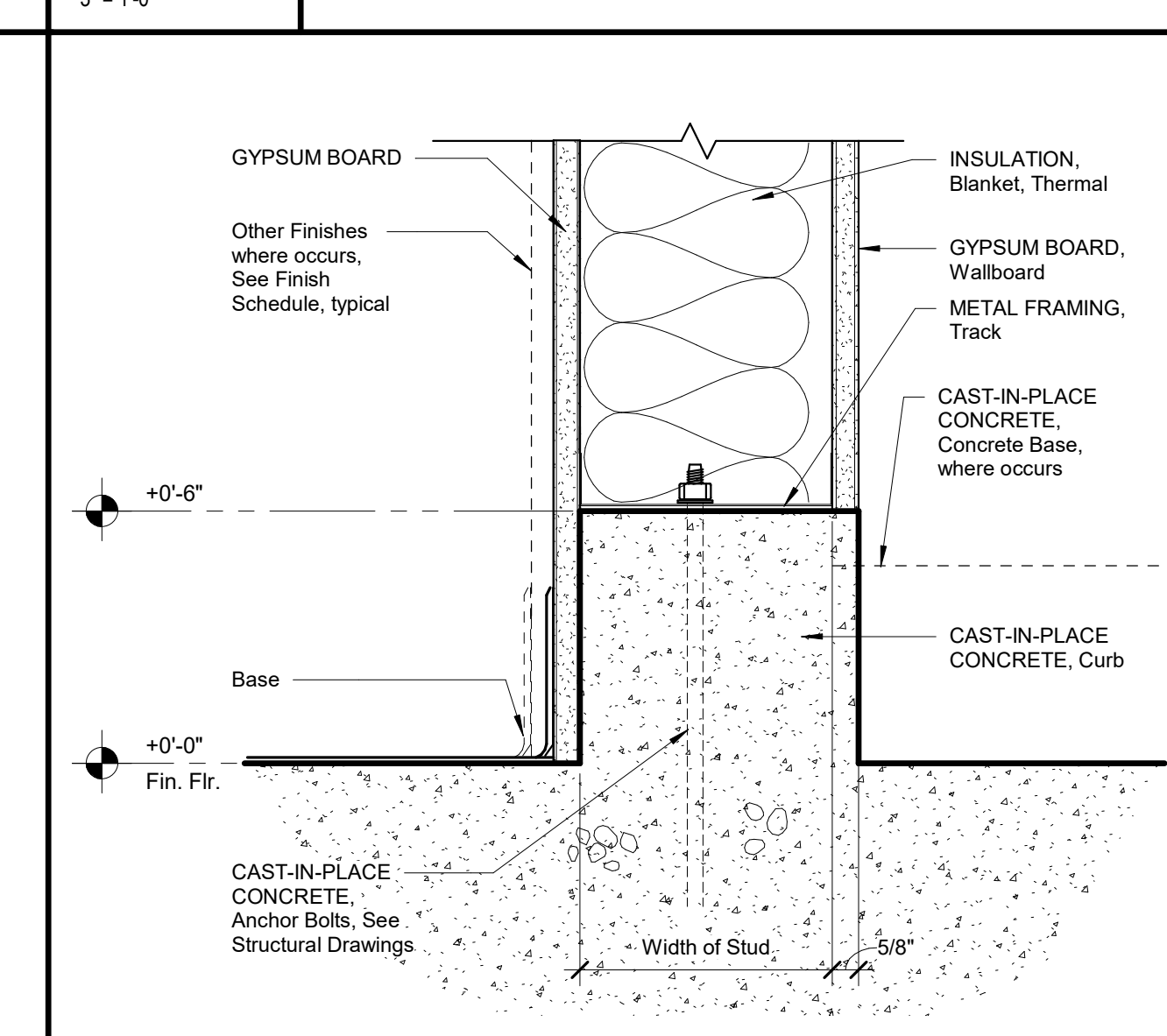
J7 CAST-IN-PLACE CONCRETE, Concrete Curb at Interior Wall
3" = 1'-0"



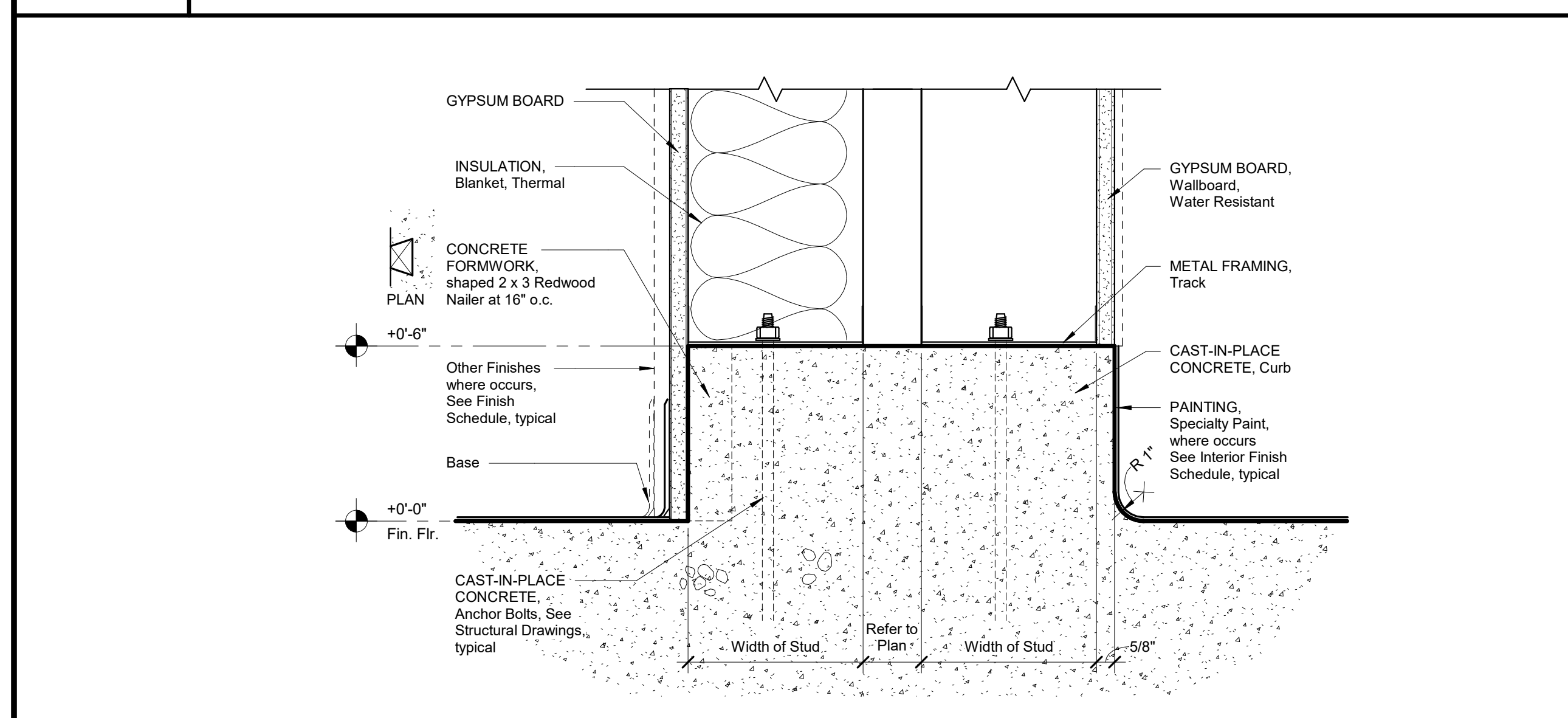
G14 Interior Wall Assembly
1 1/2" = 1'-0"



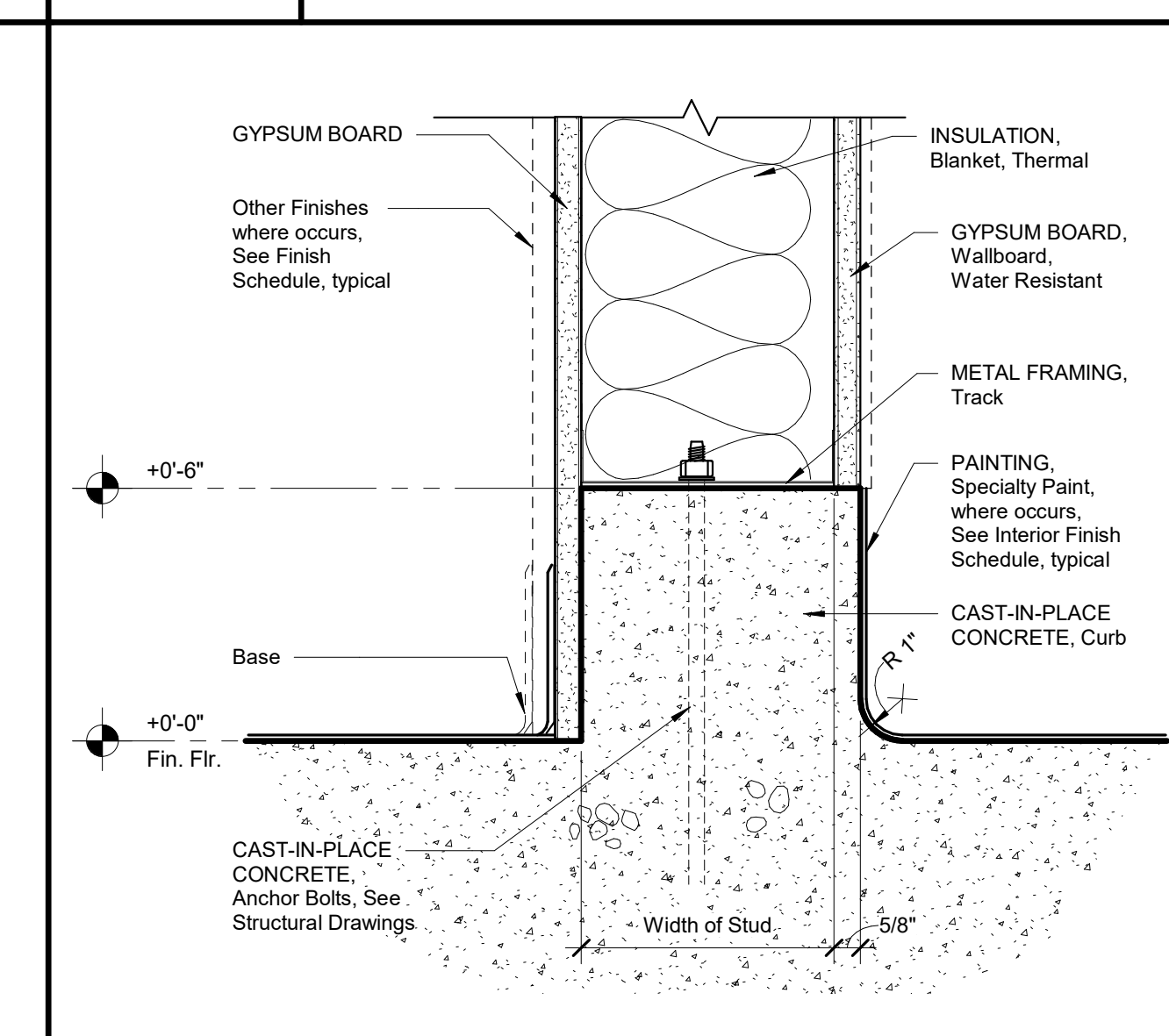
E1 CAST-IN-PLACE CONCRETE, Concrete Curb at Interior Wall
3" = 1'-0"



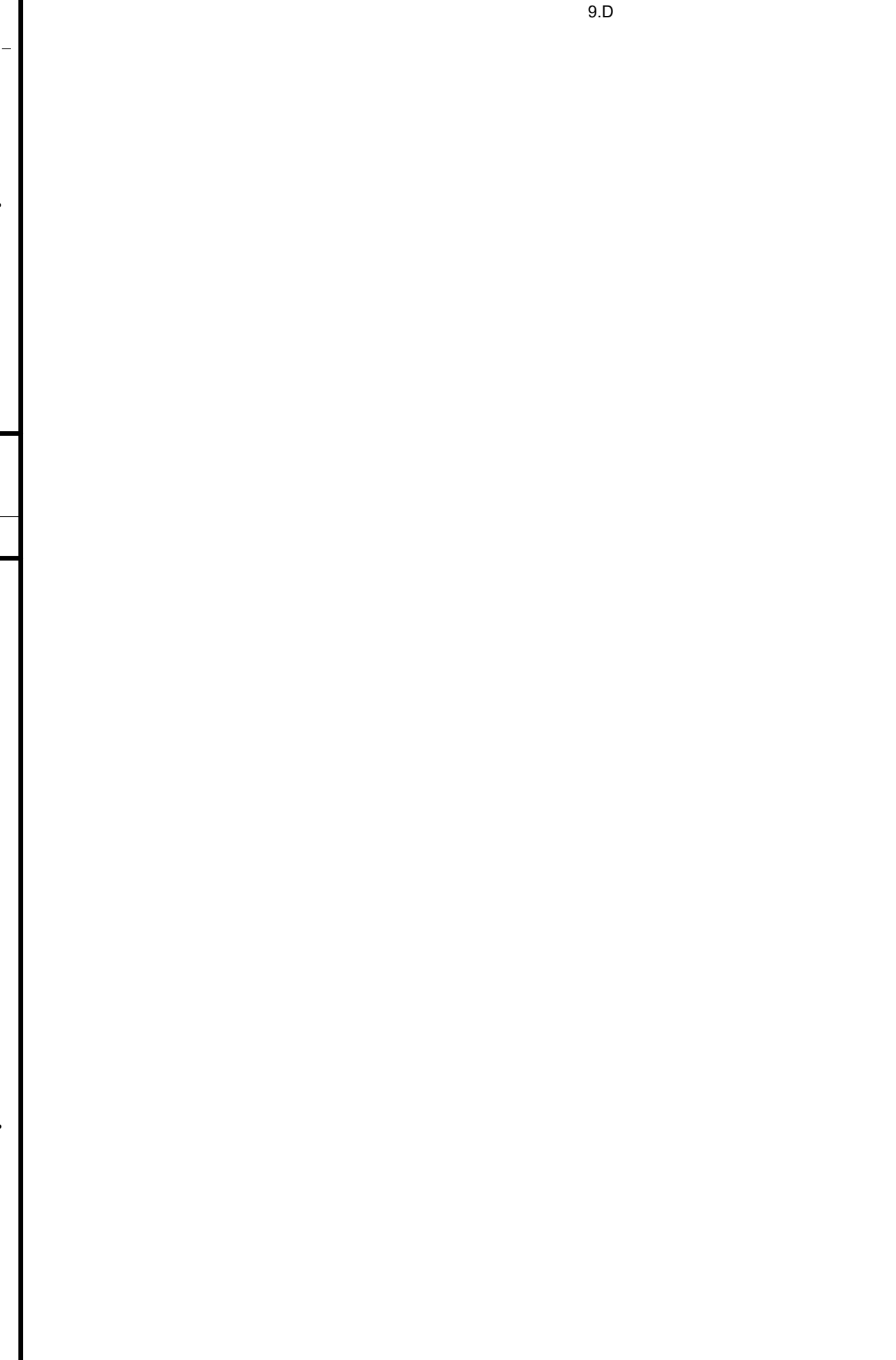
E7 CAST-IN-PLACE CONCRETE, Concrete Curb at Interior Wall
3" = 1'-0"



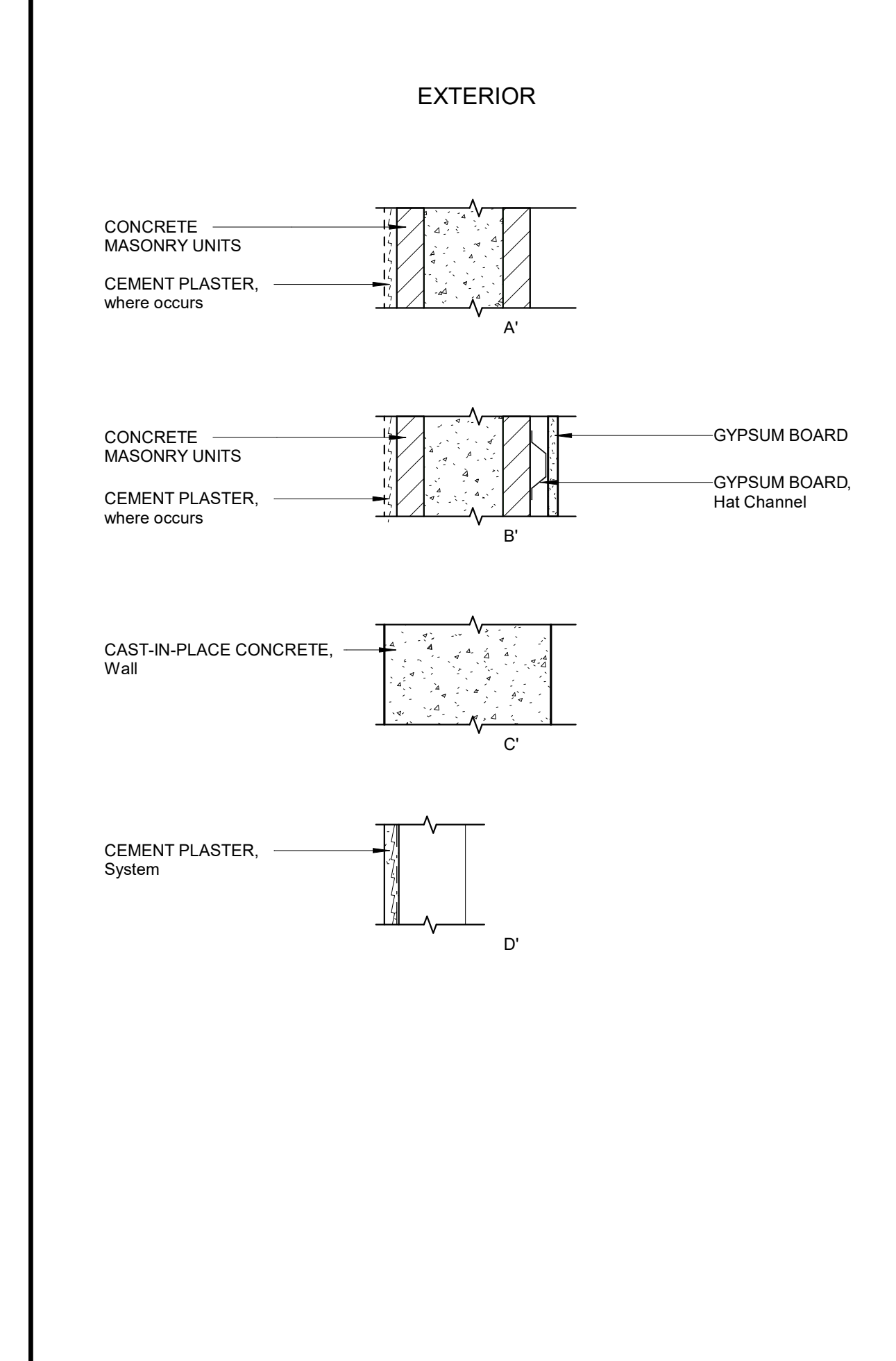
A1 CAST-IN-PLACE CONCRETE, Concrete Curb at Interior Wall
3" = 1'-0"



A7 CAST-IN-PLACE CONCRETE, Concrete Curb at Interior Wall
3" = 1'-0"



A11 Special Wall Assembly
1 1/2" = 1'-0"



A14 Exterior Wall Assembly
1 1/2" = 1'-0"

DSA File No.: 54-H11
 APP: 02-120251 INC.
 REVIEWED FOR: SS, FLS, ACS
 DATE: 01/31/2023
 Agency Approval

NOTES

- These Schedules are provided for the convenience of the Contractor. All conditions and dimensions shall be field verified prior to any fabrication.
- The intent of these schedules is to indicate the various layers of materials which comprise the different Wall Assemblies.
- Refer to the Exterior Elevations and Exterior Finish Schedule for additional Wall Covering and for Material Finishes.
- Refer to the Interior Elevations and Interior Finish Schedule for additional Wall Coverings and for Material Finishes.
- Provide a continuous Thermal Blanket Insulation at all walls designated as Exterior Walls. Refer to the Specification Section for the Insulation Type and location for Installation.
- Provide a continuous Sound Blanket at walls designated as Interior walls where insulation is indicated as part of Assembly.
- Refer to Floor Plans for Typical and Special Wall Assemblies References.
- Refer to Structural Sheets for Metal Stud Gauges and Lengths.

WALL ASSEMBLY SYMBOLS

Nominal Stud Depth: # X
 Location: X X
 Stud Material: X X

DEFINITIONS
 LOCATION
 E = Exterior
 I = Interior

STUD MATERIAL
 M = Metal
 B = CMU Block
 C = Concrete

NOMINAL STUD DEPTH
 METAL
 3 = 3/8"
 4 = 1/2"
 6 = 3/4"
 8 = 1"
 10 = 1 1/4"
 9 = Special Wall Assemblies. Reserved for Special Construction, i.e., Multi-Stud Assemblies, refer to Special Wall Assembly Schedules

WALL ASSEMBLIES
 See Typical and Special Wall Assemblies Schedules

F18 Typical Wall Assemblies Legend
No scale

Mission Oak HS Aquatic Complex
 Tulare Joint Union High School District
 Tulare, CA 93274
 Project

TYPICAL INFORMATION
 WALL ASSEMBLIES
 Drawing

ARCHITECTURE
 PLANNING
 INTERIORS
 darden architects
 www.dardenarchitects.com
 6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051
 Architect

No.	Revision/Submission	Date

Revision

Designed By: MF
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 Drawn By: KT
 Project Number: 2180
 Checked By: -
 Date: 12/13/2022
 Reviewed By: MF

X/A101

CONSTRUCTION SET

APPROVED BY THE STATE ARCHITECT
APP: 02-120251, INC.
REVIEWED FOR
SS BY: PLS/ED ACS/BJ
DATE: 08/28/2023

Opening Schedule Window										
Building	Mark	Frame Type	Size		Material	Head	Jamb	Sill	Glazing Type	Comments
			Width	Height						
P3	P304 c	FG-14	2' - 0"	2' - 0"	FG	J11-X/A402	E11-X/A402	A11-X/A402	-	Louver, 4
P4	P401 c	FG-11	4' - 0"	4' - 0"	FG	J11-X/A402	E11-X/A402	A11-X/A402	-	Louver
P4	P401 d	FG-14	2' - 0"	2' - 0"	FG	J11-X/A402	E11-X/A402	A11-X/A402	-	Louver, 4
P4	P401 e	FG-15	2' - 0"	2' - 0"	FG	J11-X/A402	E11-X/A402	A11-X/A402	-	Louver, 4
P4	P401 f	FG-10	4' - 0"	6' - 0"	FG	J11-X/A402	E11-X/A402	A11-X/A402	-	Louver
P4	P401 g	FG-11	4' - 0"	4' - 0"	FG	J11-X/A402	E11-X/A402	A11-X/A402	-	Louver
P4	P401 h	FG-14	2' - 0"	2' - 0"	FG	J11-X/A402	E11-X/A402	A11-X/A402	-	Louver, 4

SI-02 P201a b FG-13
Removed from Base and Alt-Bid

Opening Schedule Door														
Building	Door No.	Frame Type	Size			Door Material	Door Type	Louver Type	Head	Jamb	Threshold	Hardware		Comments
			Width	Height	Thickness							Group	Keying Room No	
P2	P201a a	FG-3	5' - 8"	6' - 10"	1 3/4"	FG	PF	-	J7-X/A402	E7-X/A402	-	802	P201	3
P2	P202 a	FG-1	3' - 0"	6' - 10"	1 3/4"	FG	F	-	E14-X/A402	A14-X/A402	E4-X/A402	80E	Exterior	3
P2	P203 a	FG-1	3' - 0"	6' - 10"	1 3/4"	FG	F	-	E14-X/A402	A14-X/A402	E4-X/A402	80E	Exterior	3
P3	P301 a	FG-6	3' - 0"	6' - 10"	1 3/4"	FG	F	-	J11-X/A402	A14-X/A402 & E11-X/A402	E4-X/A402	75E	Exterior	2
P3	P302 a	FG-6	3' - 0"	6' - 10"	1 3/4"	FG	F	-	J11-X/A402	A14-X/A402 & E11-X/A402	E4-X/A402	99E	Exterior	3
P3	P302 b	FG-6	3' - 0"	6' - 10"	1 3/4"	FG	F	-	J11-X/A402	A14-X/A402 & E11-X/A402	E4-X/A402	99E	Exterior	3
P3	P303 a	FG-1	3' - 0"	6' - 10"	1 3/4"	FG	F	-	E14-X/A402	A14-X/A402	E4-X/A402	80E	Exterior	3
P3	P304 a	FG-6	3' - 0"	6' - 10"	1 3/4"	FG	F	-	J11-X/A402	A14-X/A402 & E11-X/A402	E4-X/A402	99E	Exterior	3
P3	P304 b	FG-6	3' - 0"	6' - 10"	1 3/4"	FG	F	-	J11-X/A402	A14-X/A402 & E11-X/A402	E4-X/A402	99E	Exterior	3
P3	P305 a	FG-6	3' - 0"	6' - 10"	1 3/4"	FG	F	-	J11-X/A402	A14-X/A402 & E11-X/A402	E4-X/A402	75E	Exterior	2
P3	P306 a	FG-1	3' - 0"	6' - 10"	1 3/4"	FG	F	-	E14-X/A402	A14-X/A402	E4-X/A402	80E	Exterior	3
P4	P401 a	FG-3	5' - 8"	6' - 10"	1 3/4"	FG	PF	-	E14-X/A402	A14-X/A402	E4-X/A402	802E	Exterior	3
P4	P401 b	FG-1	3' - 0"	6' - 10"	1 3/4"	FG	F	-	E14-X/A402	A14-X/A402	E4-X/A402	75E	Exterior	2
P4	P402 a	FG-5	7' - 8"	6' - 10"	1 3/4"	FG	PL	12" x 12"	E14-X/A402	A14-X/A402	E4-X/A402	802E	Exterior	3
P4	P403 a	FG-5	7' - 8"	6' - 10"	1 3/4"	FG	PL	12" x 12"	E14-X/A402	A14-X/A402	E4-X/A402	802E	Exterior	3
P4	P404 a	CL-1	6' - 0"	8' - 0"	1 3/4"	CL	CL	-	J11-SD/A402	J11-SD/A402	-	-	Site	6. Service Gate with Butterfly Latch and Padlock.
P4	P404c a	CL-1	6' - 0"	8' - 0"	1 3/4"	CL	CL	-	J11-SD/A402	J11-SD/A402	-	-	Site	6. Service Gate with Butterfly Latch and Padlock.
P4	P404d a	CL-1	6' - 0"	8' - 0"	1 3/4"	CL	CL	-	J11-SD/A402	J11-SD/A402	-	-	Site	6. Service Gate with Butterfly Latch and Padlock.
P4	P404e a	CL-2	8' - 0"	8' - 0"	1 3/4"	CL	CL	-	J11-SD/A402	J11-SD/A402	-	-	Site	6. Service Gate with Butterfly Latch and Padlock.
P4	P410 a	CL	8' - 0"	7' - 0"	1 3/4"	CL	CL	-	J4-SD/A402	-	-	-	Site	6. Maintenance Gate with Butterfly Latch and Padlock. Privacy Slats
P4	P420 a	FG-2	3' - 8"	6' - 10"	1 3/4"	FG	F	-	E14-X/A402	A14-X/A402	E4-X/A402	75E	Exterior	2

Opening Schedule Door Alternate														
Building	Door No.	Frame Type	Size			Door Material	Door Type	Louver Type	Head	Jamb	Threshold	Hardware		Comments
			Width	Height	Thickness							Group	Keying Room No	
P2	P201a a	FG-4	6' - 0"	6' - 10"	1 3/4"	FG	PF	-	J7-X/A402	E7-X/A402	-	802	P201	3
P2	P202 a	FG-1	3' - 0"	6' - 10"	1 3/4"	FG	F	-	E14-X/A402	A14-X/A402	E4-X/A402	80E	Exterior	3
P2	P203 a	FG-1	3' - 0"	6' - 10"	1 3/4"	FG	F	-	E14-X/A402	A14-X/A402	E4-X/A402	80E	Exterior	3
P2	P204 a	FG-7	3' - 0"	6' - 10"	1 3/4"	FG	F	-	J11-X/A402	A14-X/A402 & E11-X/A402	E4-X/A402	75E	Exterior	2
P2	P204 b	FG-8	8' - 0"	4' - 2"	2"	FG	CD	-	N4-X/A402	J4-X/A402	*	01	Exterior	*Refer to SHEET METAL, Snack Bar Counter detail
P2	P204 c	FG-8	8' - 0"	4' - 2"	2"	FG	CD	-	N4-X/A402	J4-X/A402	*	01	Exterior	*Refer to SHEET METAL, Snack Bar Counter detail
P2	P205 a	FG-7	3' - 0"	6' - 10"	1 3/4"	FG	F	-	J11-X/A402	A14-X/A402 & E11-X/A402	E4-X/A402	85E	Exterior	2
P2	P205a a	FG-1	3' - 0"	6' - 10"	1 3/4"	FG	F	-	J7-X/A402	A7-X/A402	E4-X/A402	80	P205	3

DSA File No.: 54-H11
DSA Application No.: 02-120251
Agency Approval

ABBREVIATIONS
FG - Fiberglass
SG - Site Gate
SPF - Steel Post Fence
CL - Chain Link
RO - Rough Opening
T - Tempered Glass

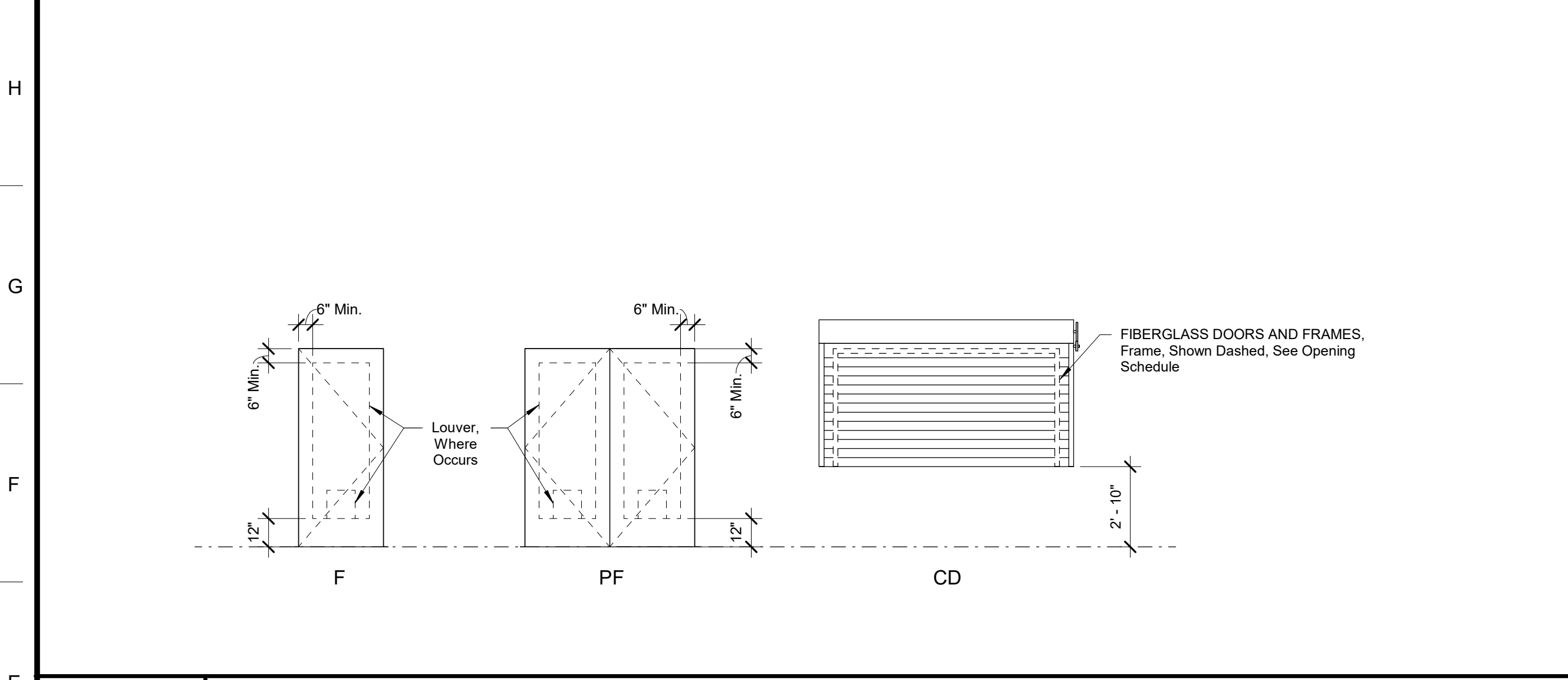
GENERAL NOTES

- This schedule is provided for the convenience of the General Contractor. Dimensions indicated are nominal dimensions.
- The General Contractor is responsible for all coordination and review of drawings and verifying all field conditions and dimensions prior to fabrication. Not all detail references are included in the schedule.
- Provide metal closure plates for FG Frames at concrete curbs. Typical. Refer to Detail A4/A402.
- All details, materials and finishes shall be considered typical for all similar conditions unless noted otherwise.
- Door Types are shown on sheet X/A401.
- Frame Types are shown on sheets X/A401.
- Exit Doors shall be operable from inside without the use of a key or any special knowledge or effort.
- For opening Head, Jamb, and Sill framing conditions, see Structural Drawings.

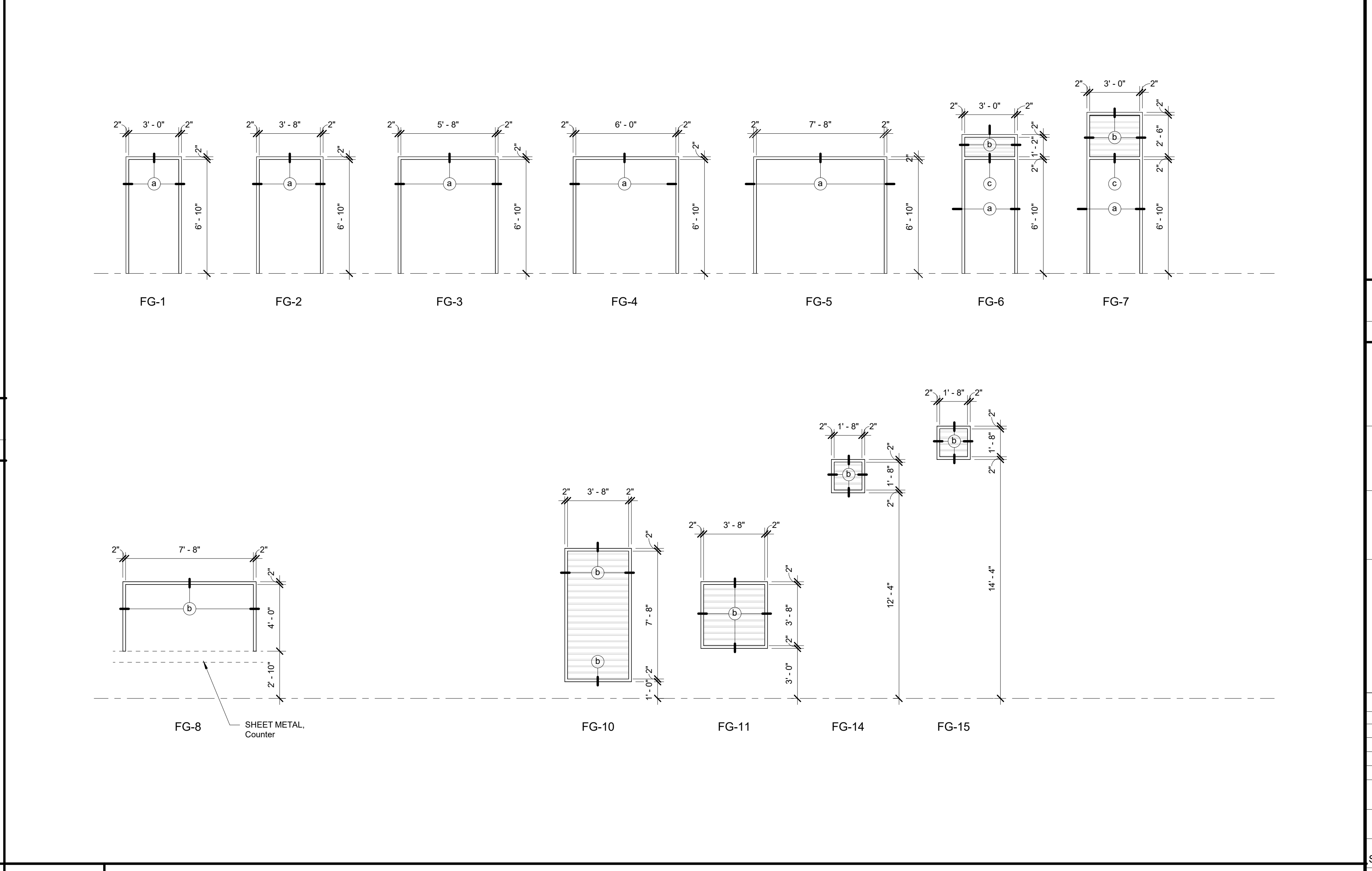
OPENING SCHEDULE COMMENTS

- HARDWARE, Exit/Panic Devices, section HARDWARE, where occurs.
- HARDWARE, Floor Stop, See detail A1/X/A402.
- Floor Stop and Holder - See detail E1/X/A402.
- Relief Air Louver. Coordinate mechanical drawings.
- CHAIN LINK, Gate - See sheet SD/A402.

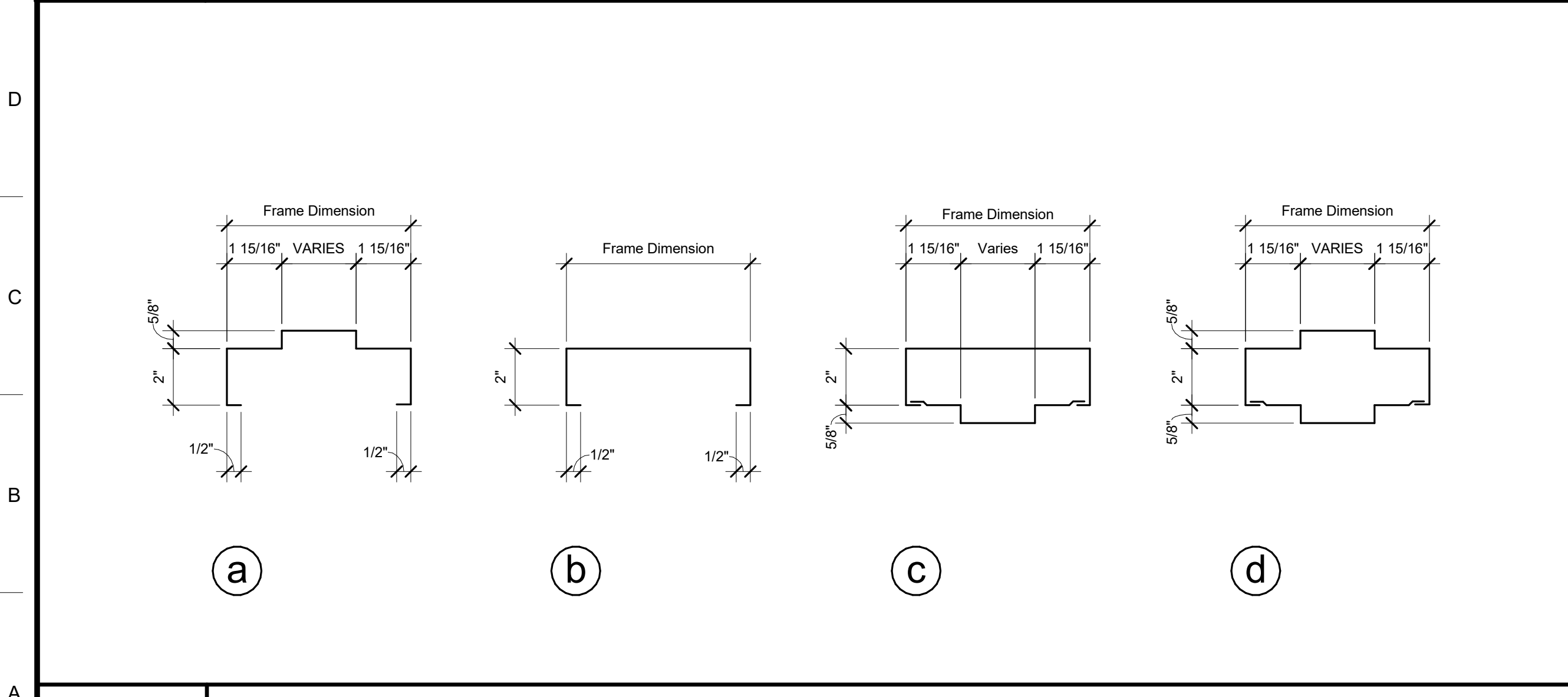
J1 Window Schedule
No Scale



J7 Door Schedule
No Scale



E1 Door Types
No Scale



A7 Frame Types
No Scale



F18 Opening Schedule Legend
No Scale

Mission Oak HS Aquatic Complex
Tulare Joint Union High School District
Tulare, CA 93274

TYPICAL INFORMATION
OPENING SCHEDULES, FRAME ELEVATIONS
Drawing

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Architect

No.	Revision/Submission	Date
1	REVISION_01	05/31/2023

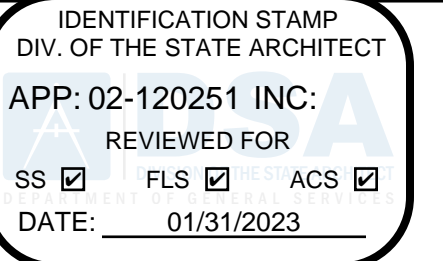
Revision

Designed By: MF Copyright 2022 Darden Architects
Scale: As indicated Drawn By: KT
Project Number: 2180 Checked By: -
Date: 03/28/2023 Reviewed By: MF

X/A401

8/18/2023 4:29:41 PM
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DSA File No.: 54-H11

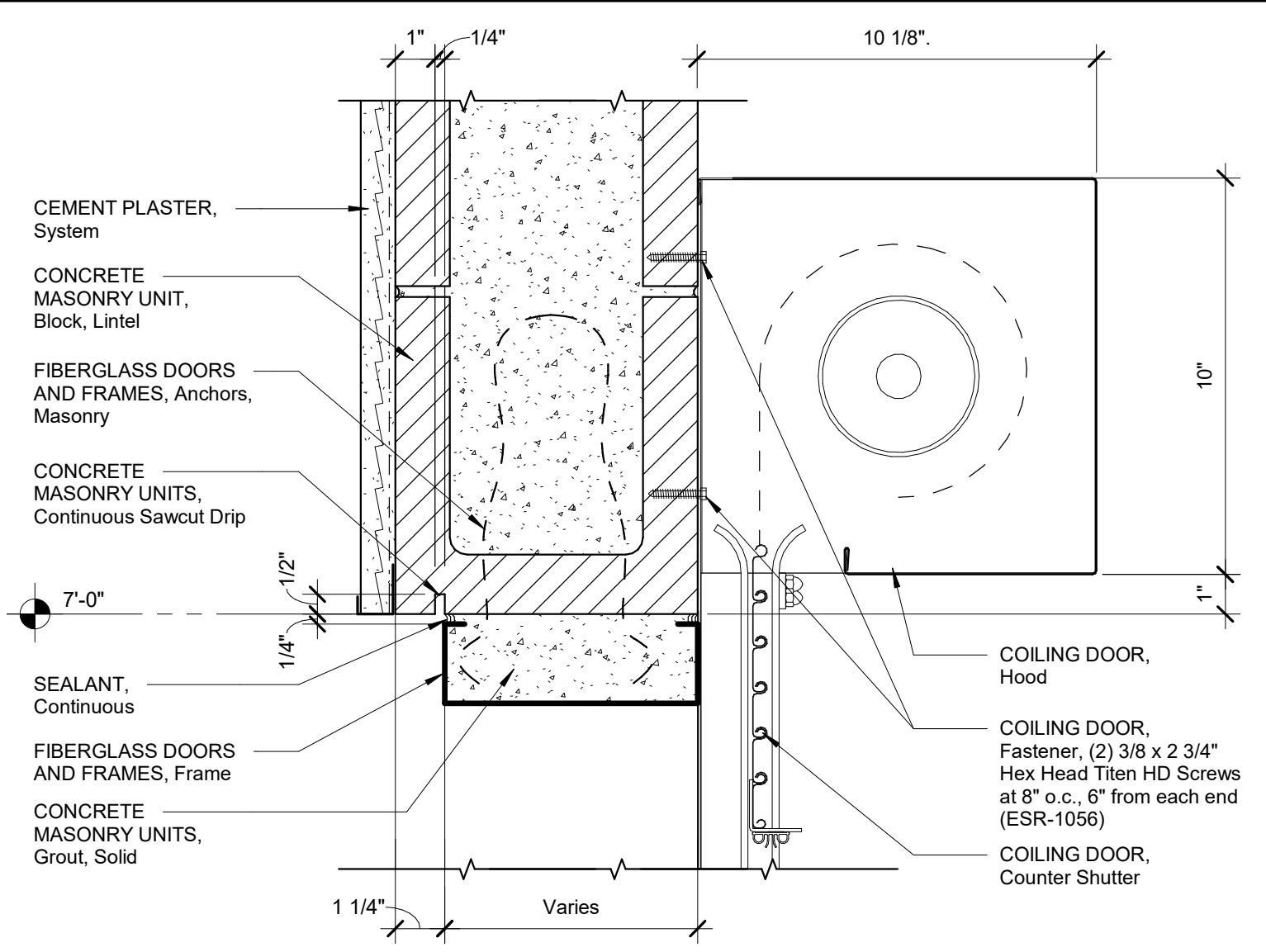


DSA Application No.: 02-120251

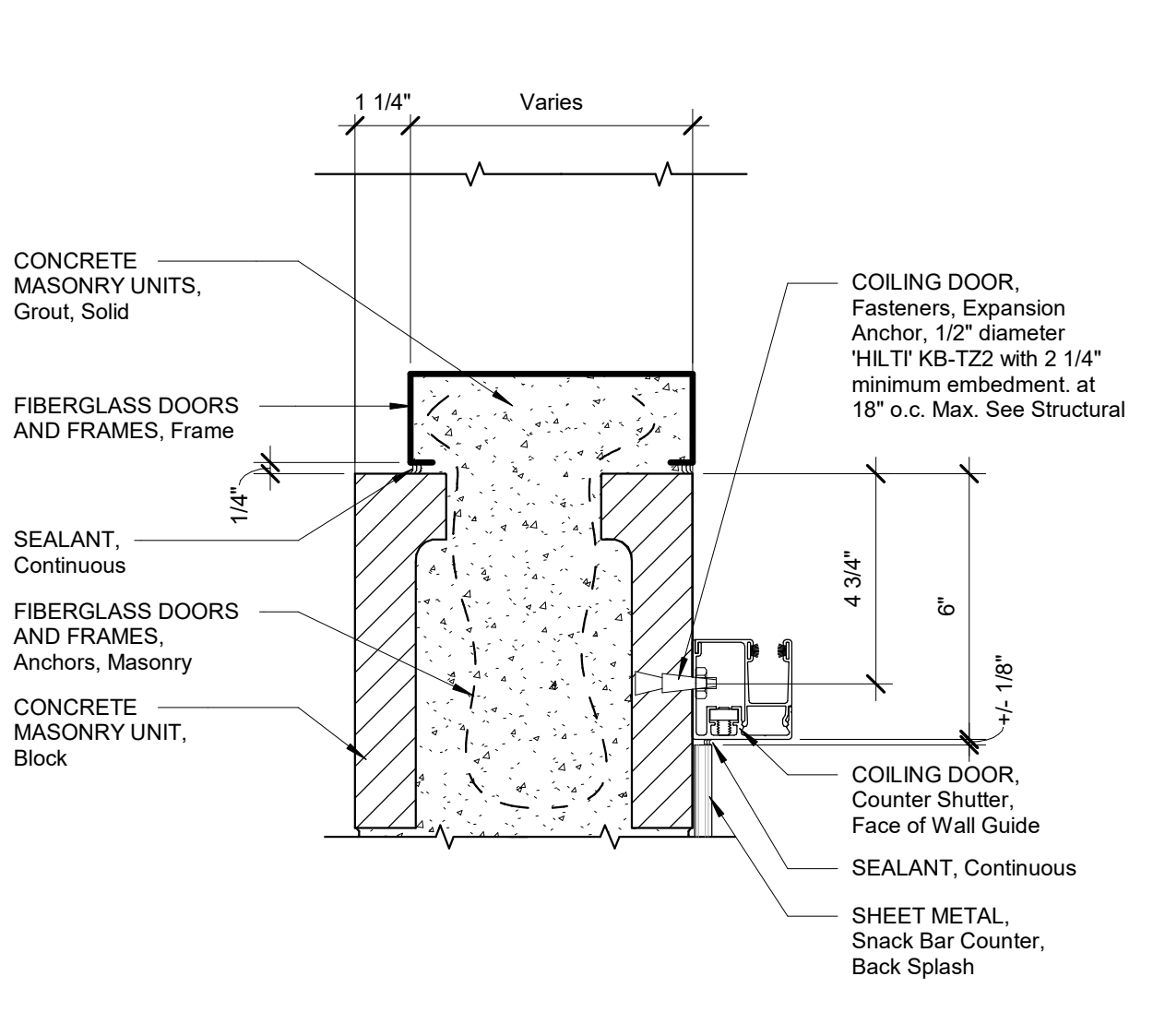
Agency Approval

NOTES:

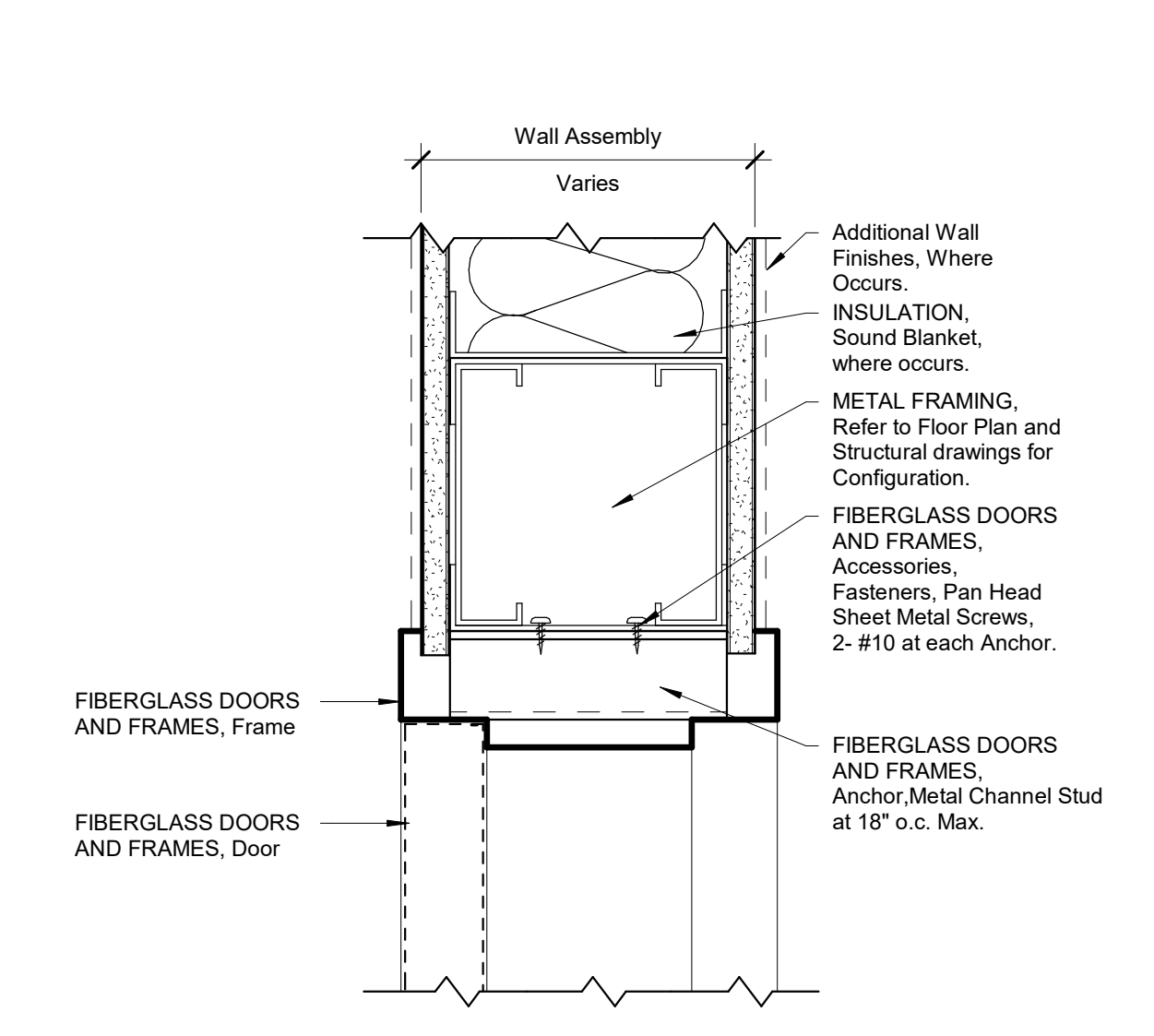
1. WALL ASSEMBLY: Refer to Floor Plans, Typical Wall Assembly Schedule and Special Wall Assembly Schedule for wall depth and wall materials. Coordinate the required depth of Fiberglass Frame.
2. WALL FINISHES: Refer to Interior Elevations and Interior Finish Schedules for the actual floor material to be installed.
3. FLOOR MATERIAL: Refer to Floor Plans and Interior Finish Schedules for the actual floor material to be installed.
4. GLASS: Refer to Opening Schedules and SPECIFICATION SECTION - GLASS for Glass type and thickness.
5. DETAIL REFERENCES: All Detail References are to this sheet, unless otherwise noted.



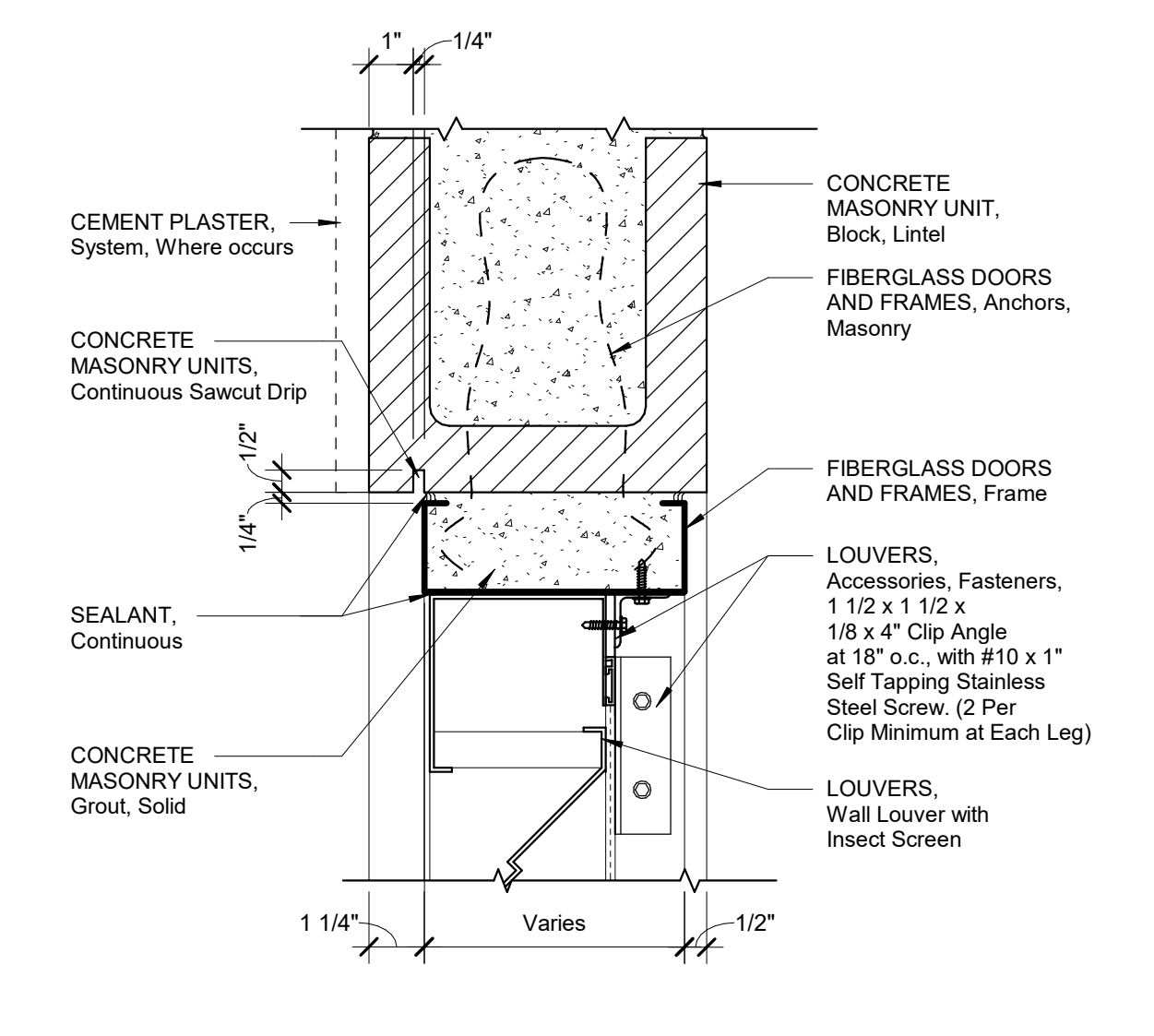
N4 COILING DOOR, Counter Shutter Head at Masonry 3" = 1'-0"



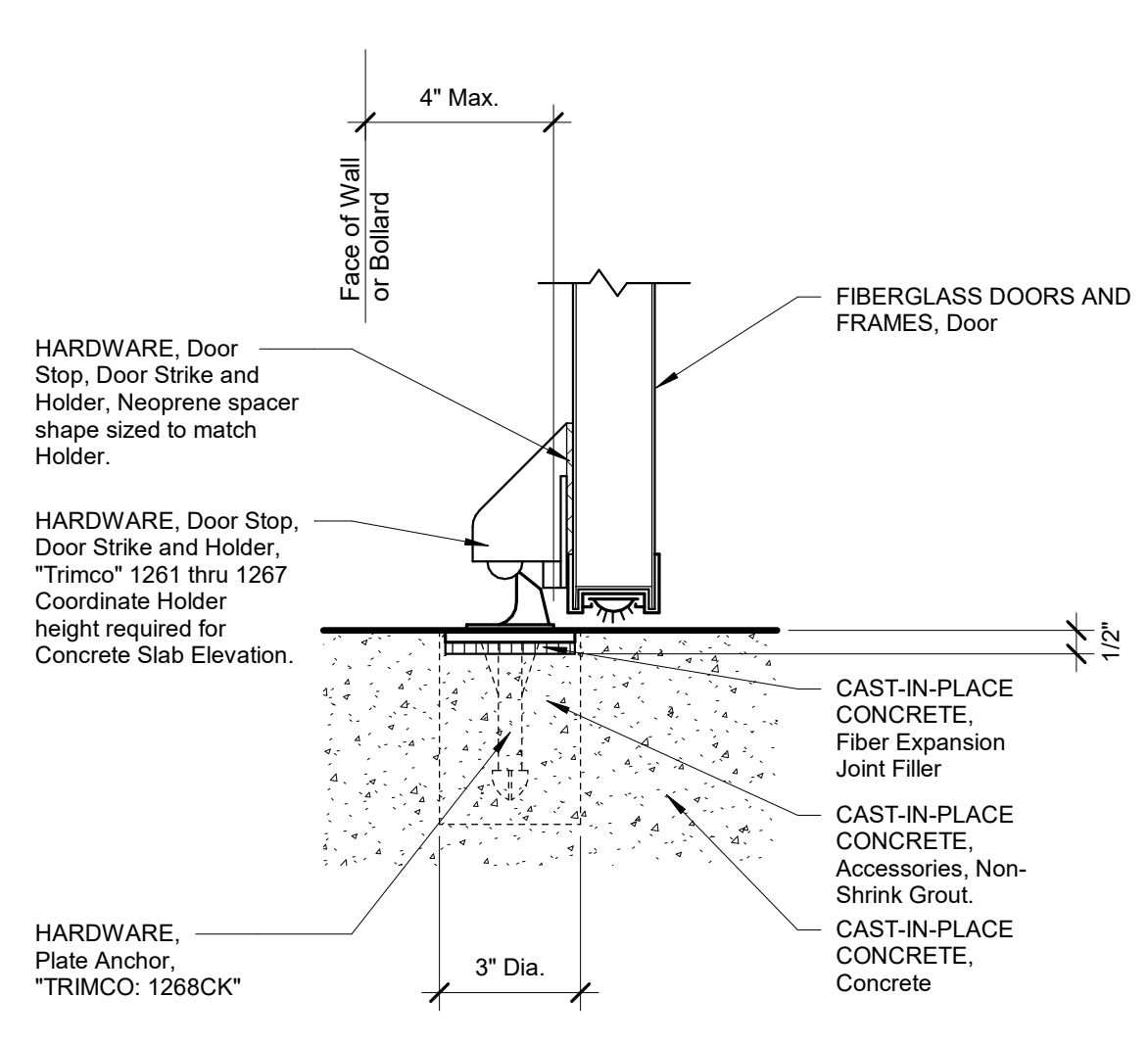
J4 COILING DOOR, Counter Shutter Jamb at Masonry 3" = 1'-0"



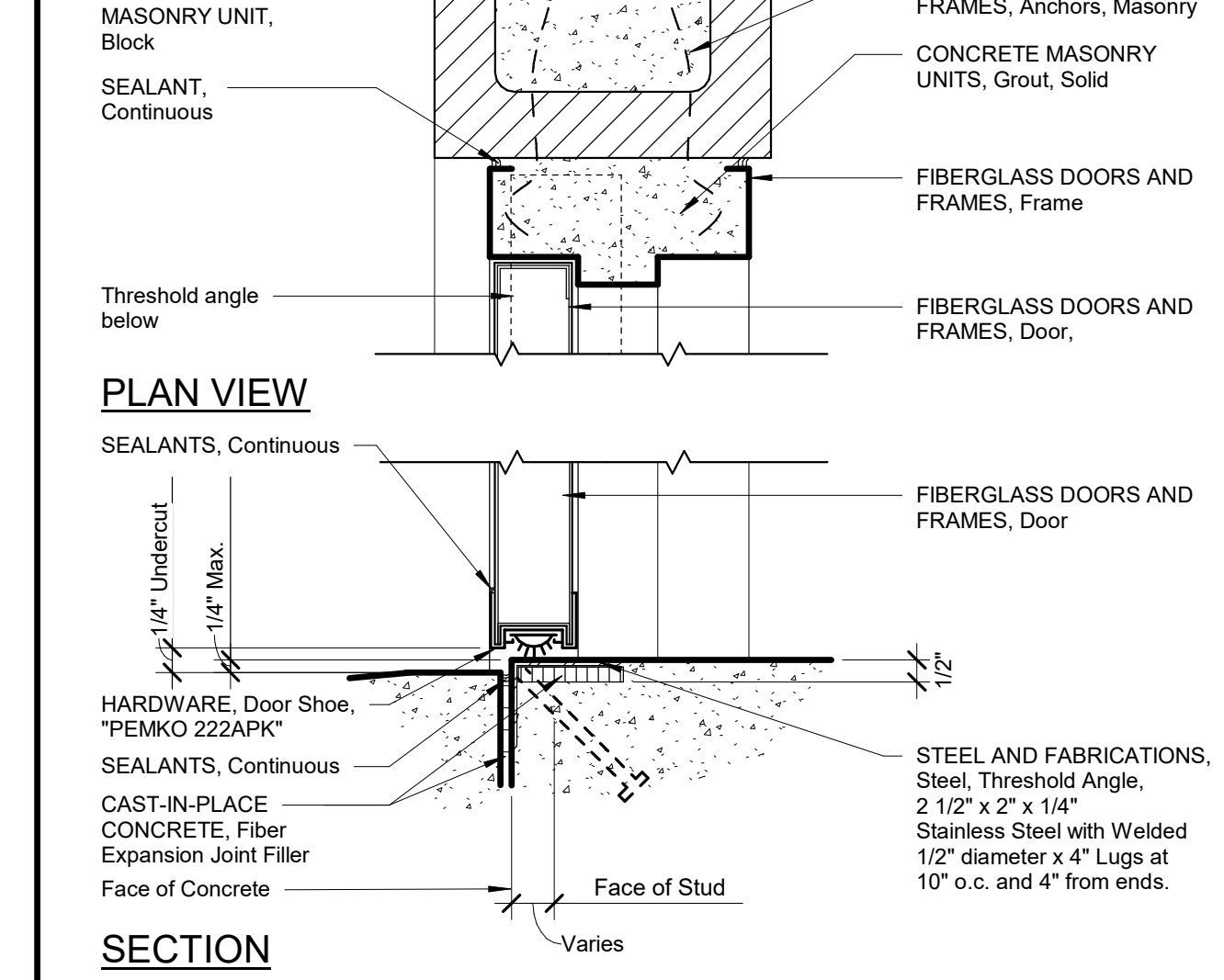
J7 FIBERGLASS DOORS AND FRAMES, Head at Interior 3" = 1'-0"



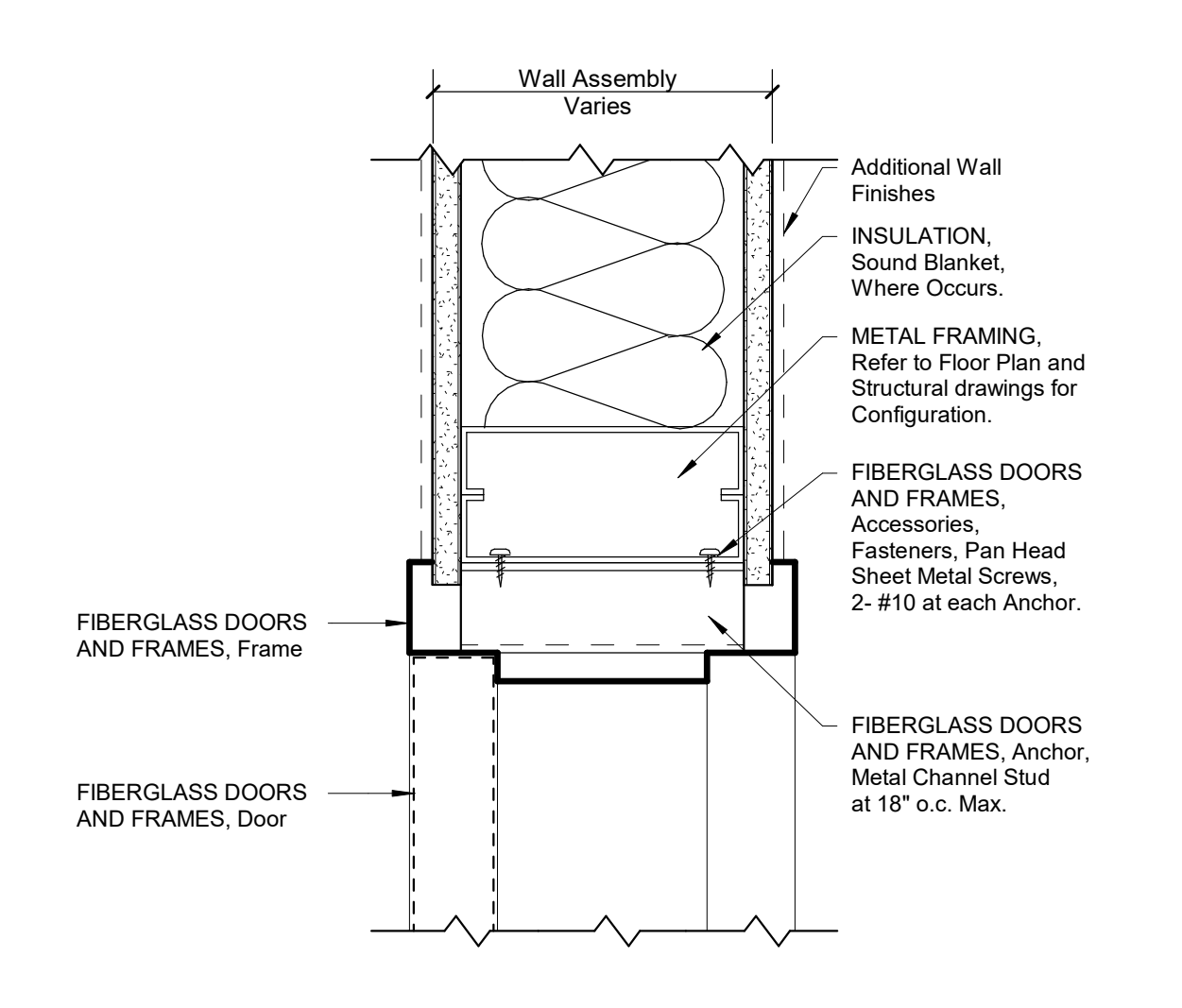
J11 FIBERGLASS DOORS AND FRAMES, Louver Head at Masonry 3" = 1'-0"



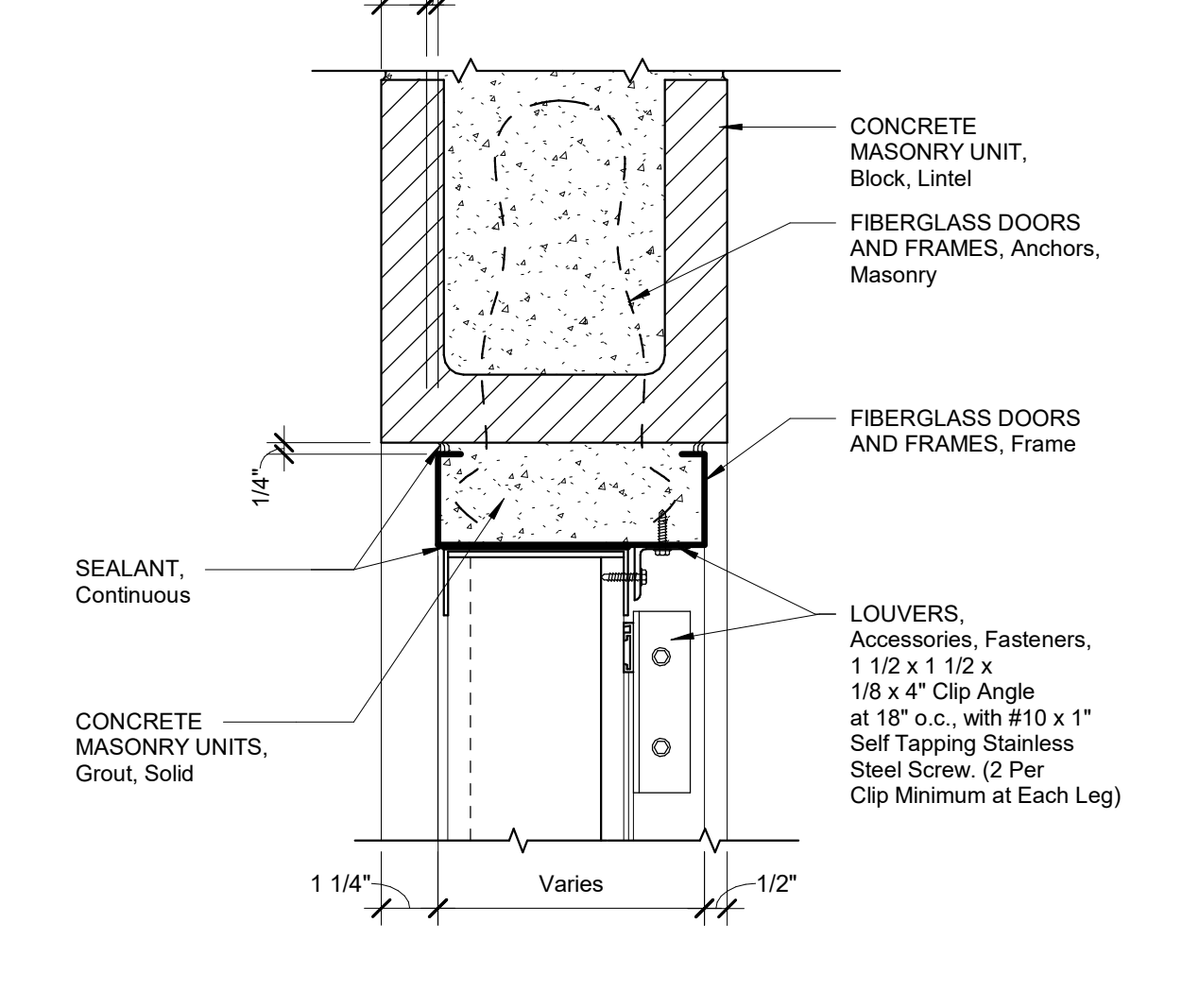
E1 HARDWARE, Door Strike and Holder at Exterior & Interior 3" = 1'-0"



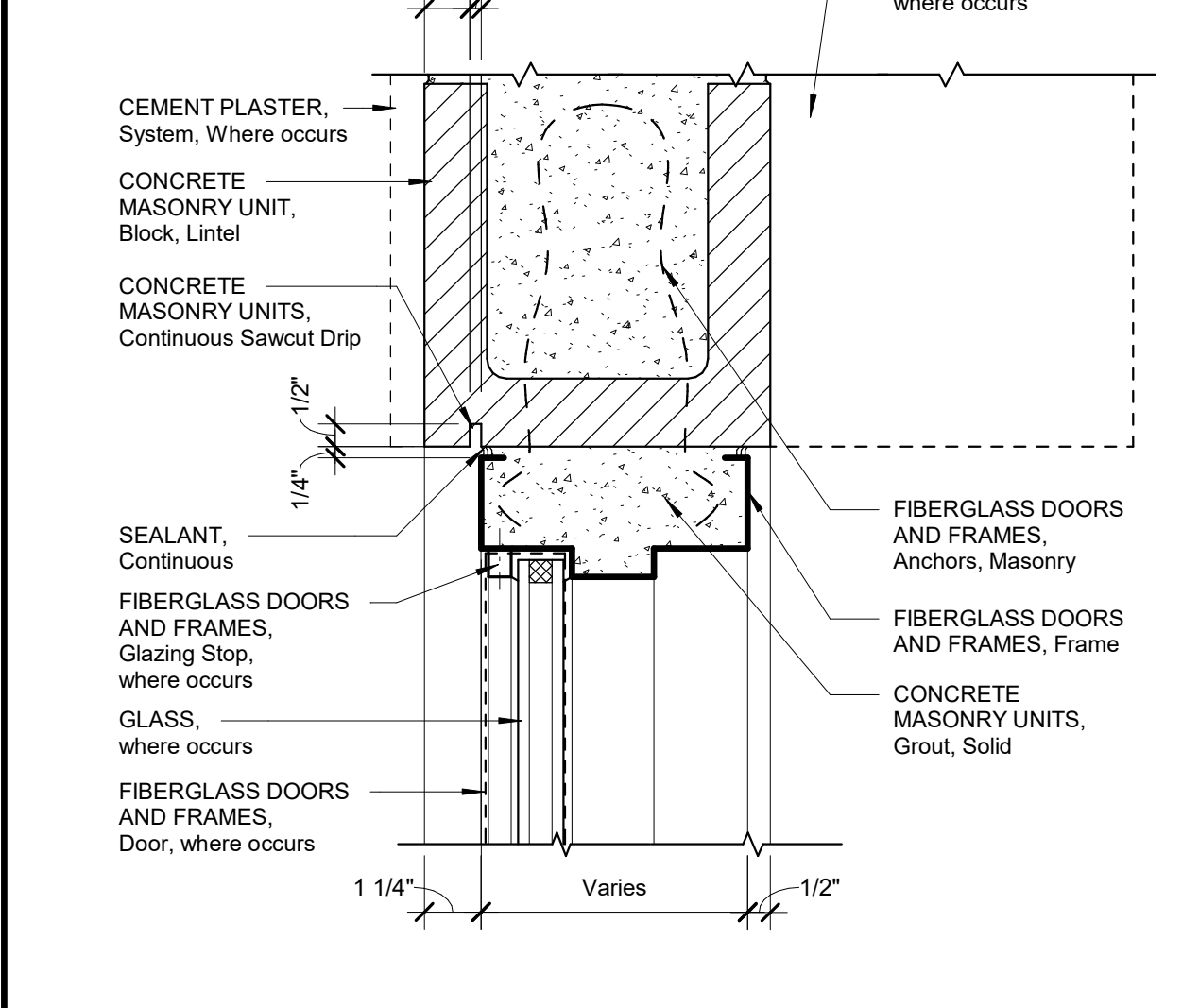
E4 HARDWARE, Threshold at Exterior Fiberglass Doors 3" = 1'-0"



E7 FIBERGLASS DOORS AND FRAMES, Jamb at Interior 3" = 1'-0"



E11 FIBERGLASS DOORS AND FRAMES, Louver Jamb at Masonry 3" = 1'-0"



E14 FIBERGLASS DOORS AND FRAMES, Head at Exterior 3" = 1'-0"

H18 OPENING NOTES No Scale

Mission Oak HS Aquatic Complex Tulare Joint Union High School District Tulare, CA 93274 Project

TYPICAL INFORMATION FIBERGLASS DOORS AND FRAMES DETAILS Drawing



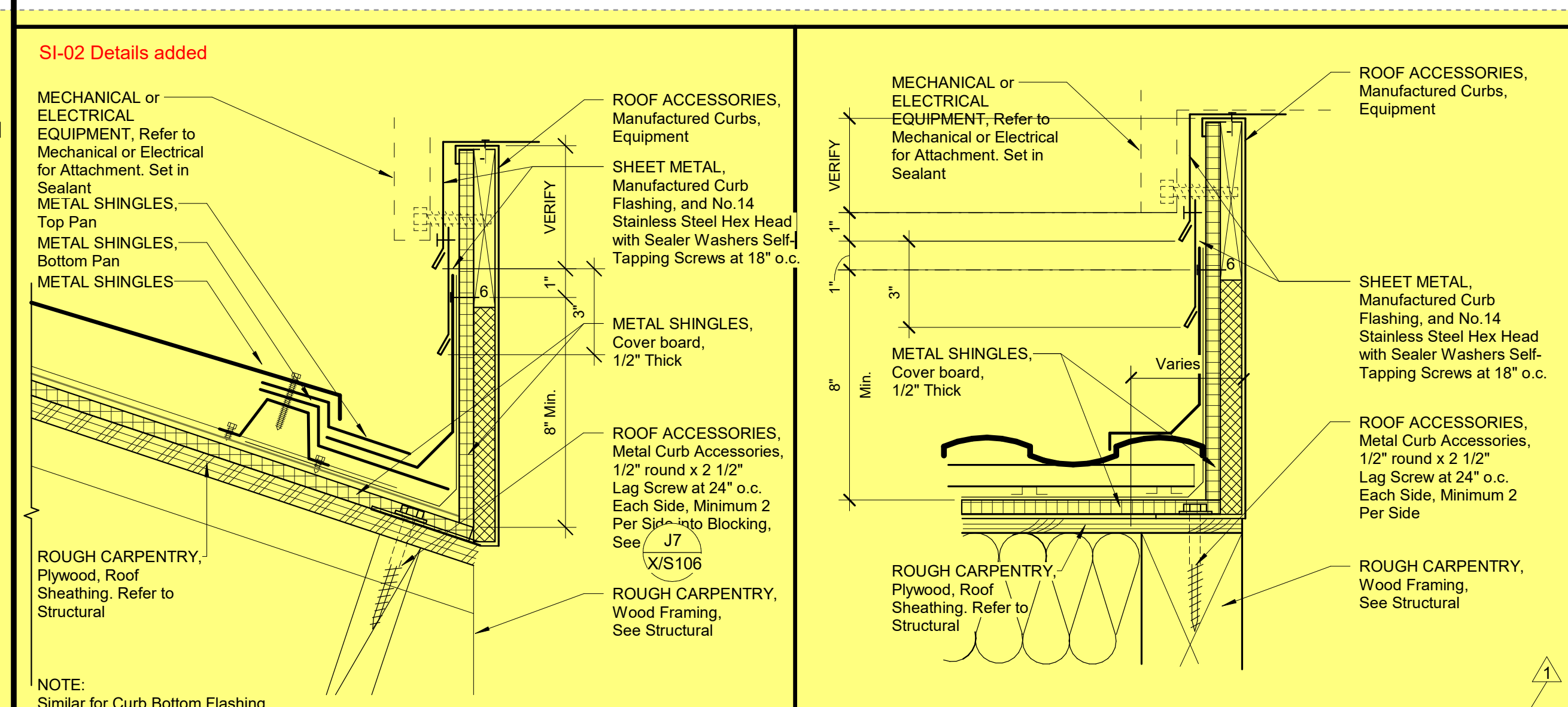
No.	Revision/Submission	Date

Scale: 3" = 1'-0" Drawn By: KT Project Number: 2180 Checked By: - Date: 12/13/2022 Reviewed By: MF

X/A402

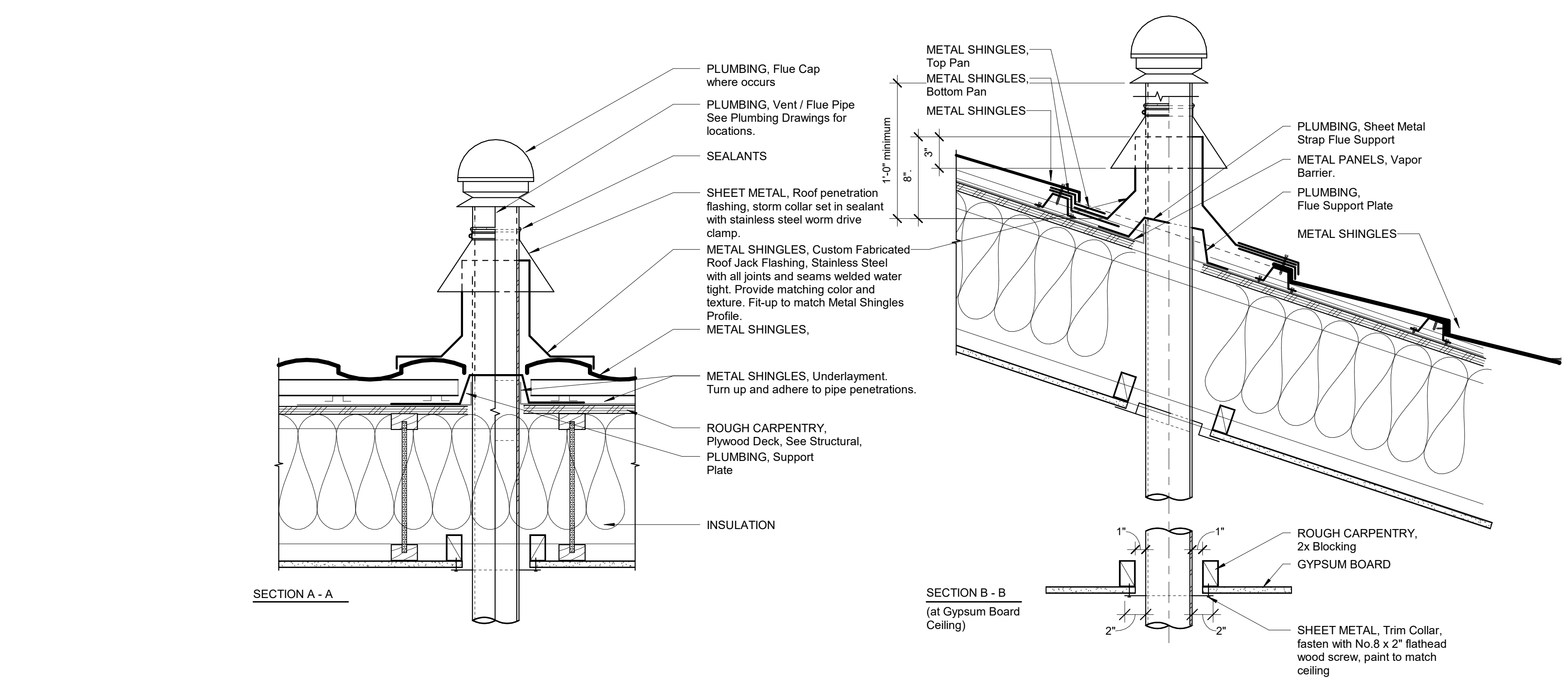
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DSA File No.: 54-H11
DSA Application No.: 02-120251
Agency Approval

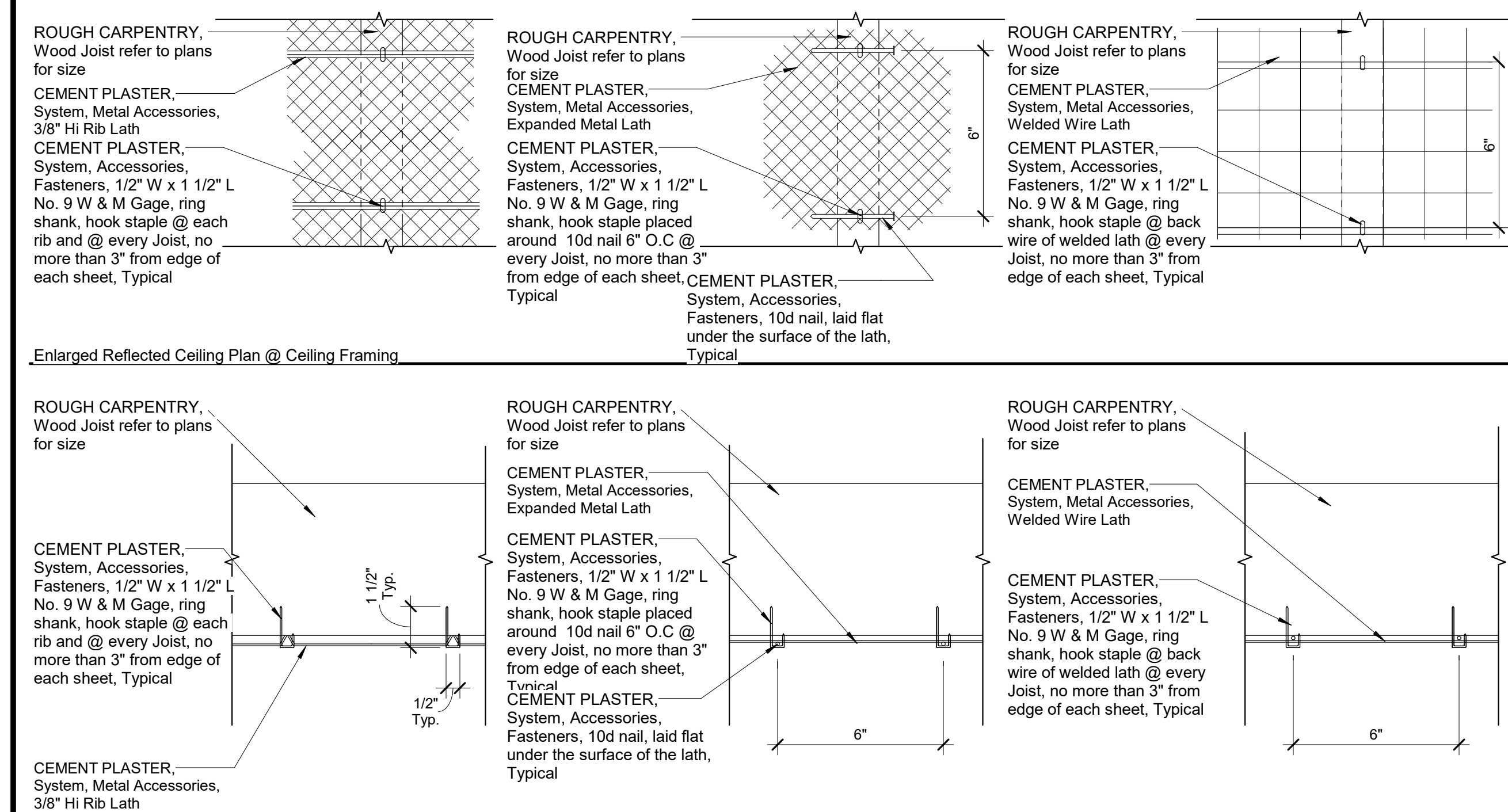


J1 ROOF ACCESSORIES, Equipment Curb Top
3" = 1'-0"

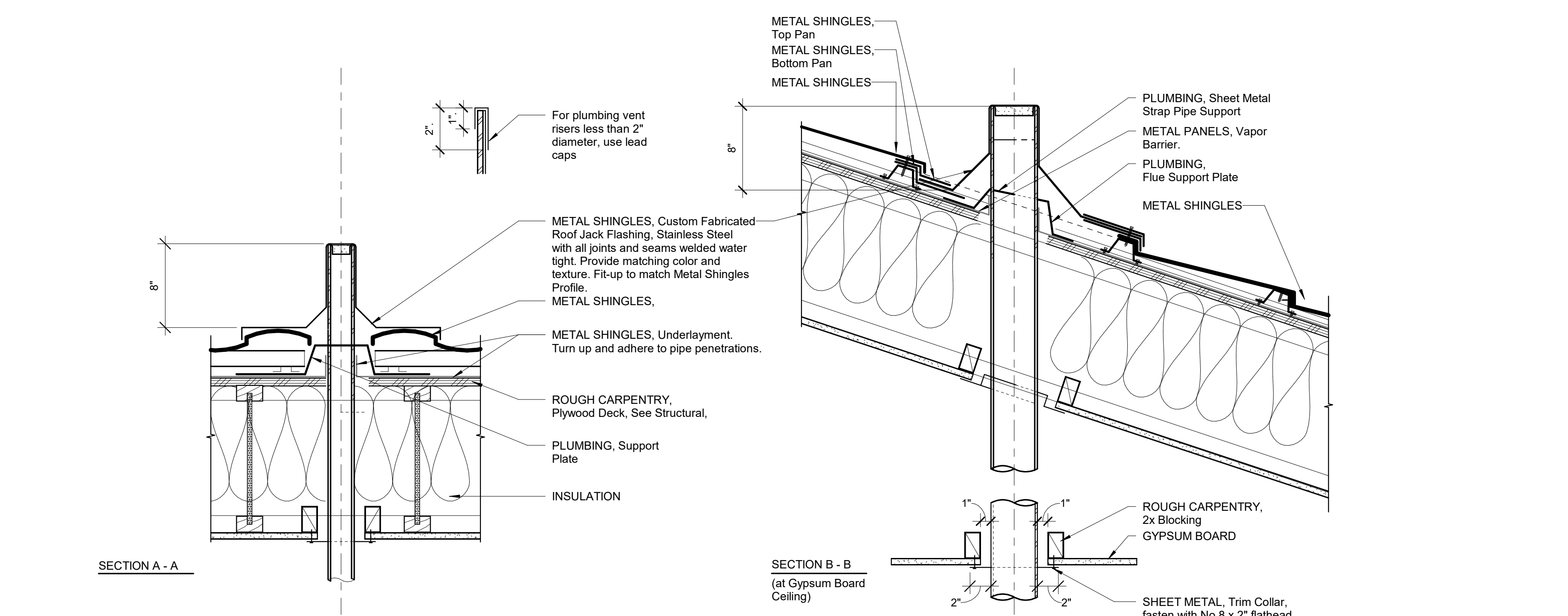
J4 ROOF ACCESSORIES, Equipment Curb Side
3" = 1'-0"



J7 METAL SHINGLES, Roof Penetration Flashing, Flue
1 1/2" = 1'-0"



A1 CEMENT PLASTER, Metal Accessories @ Horizontal Wood Framing
3" = 1'-0"



A7 METAL SHINGLES, Roof Penetration Plumbing Vent Riser
1 1/2" = 1'-0"

Mission Oak HS Aquatic Complex
Tulare Joint Union High School District
Tulare, CA 93274 Project

TYPICAL INFORMATION
EXTERIOR DETAILS

Darden Architects
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Architect

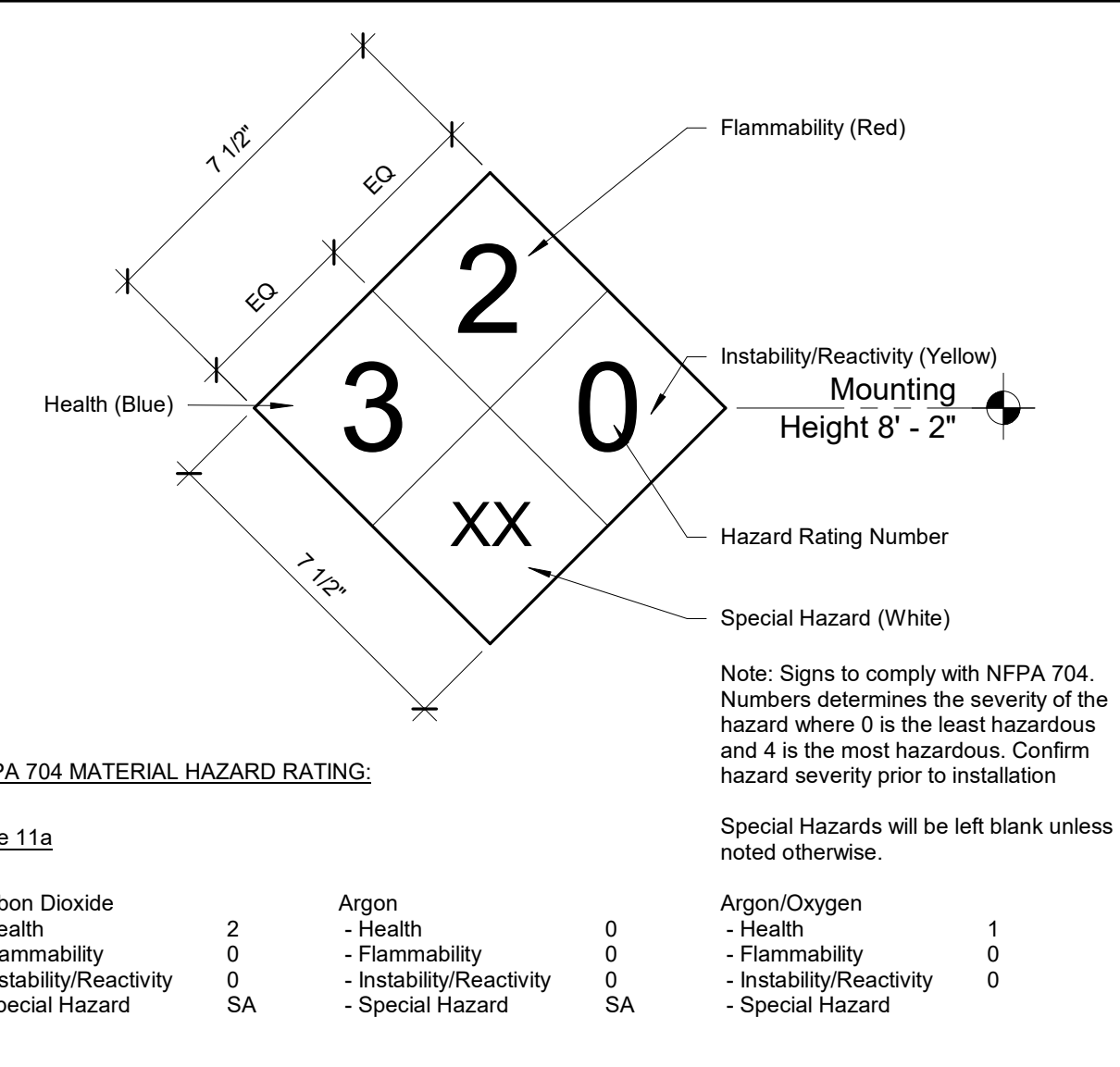
No.	Revision/Submission	Date
1	REVISION_01	05/31/2023

Revision
Designed By: MF
Scale: As indicated
Project Number: 2180
Date: 03/28/2023

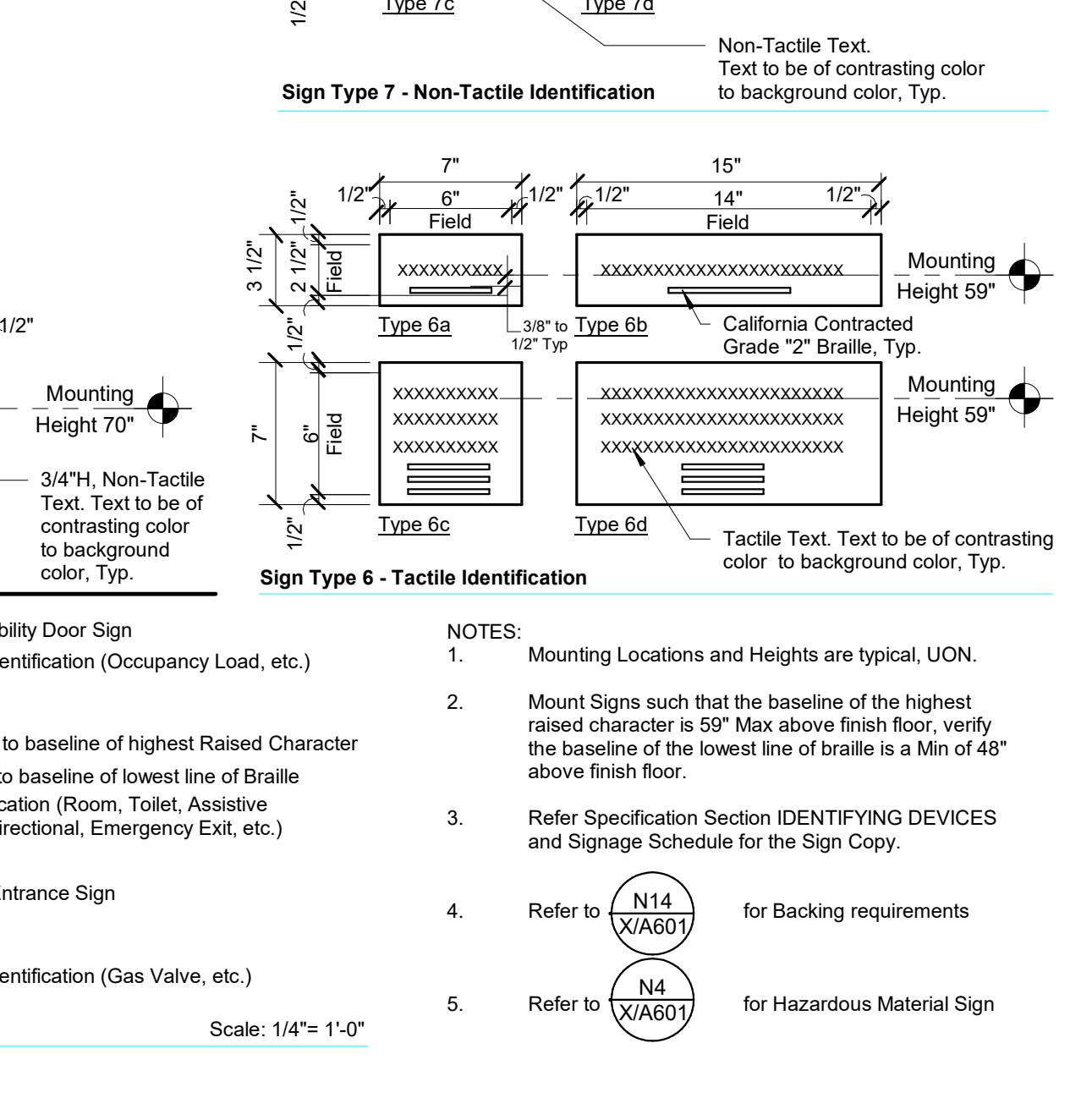
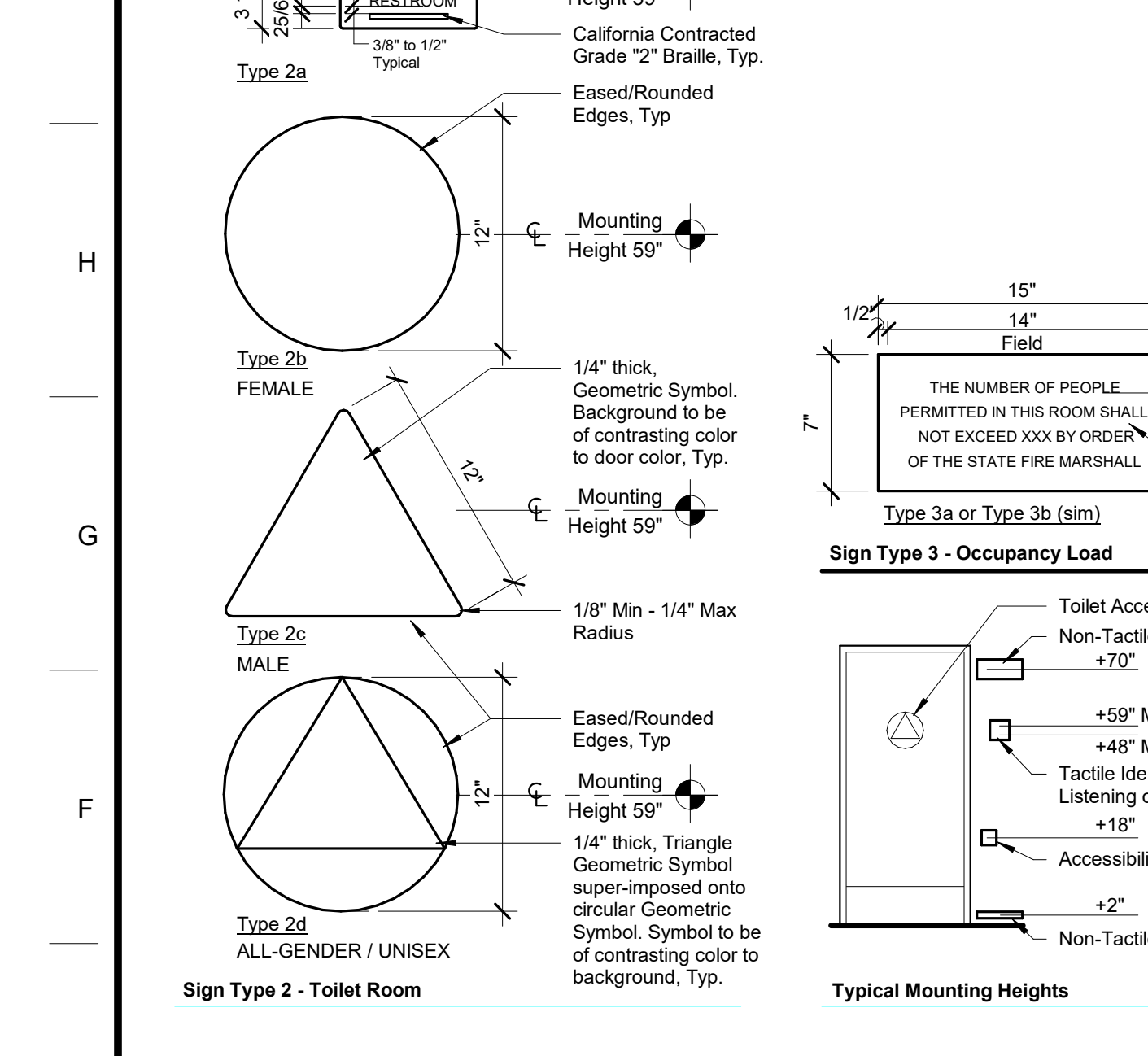
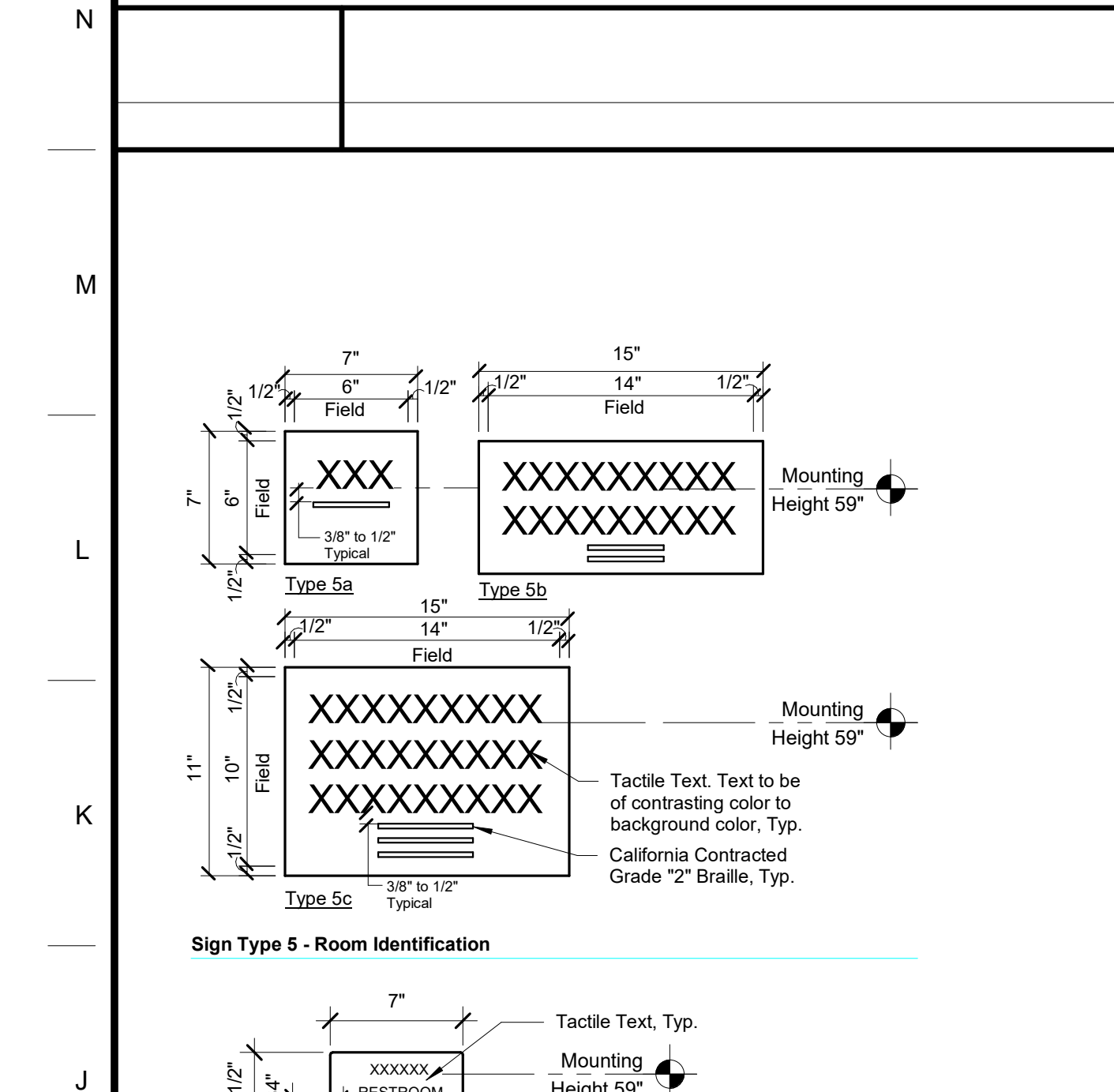
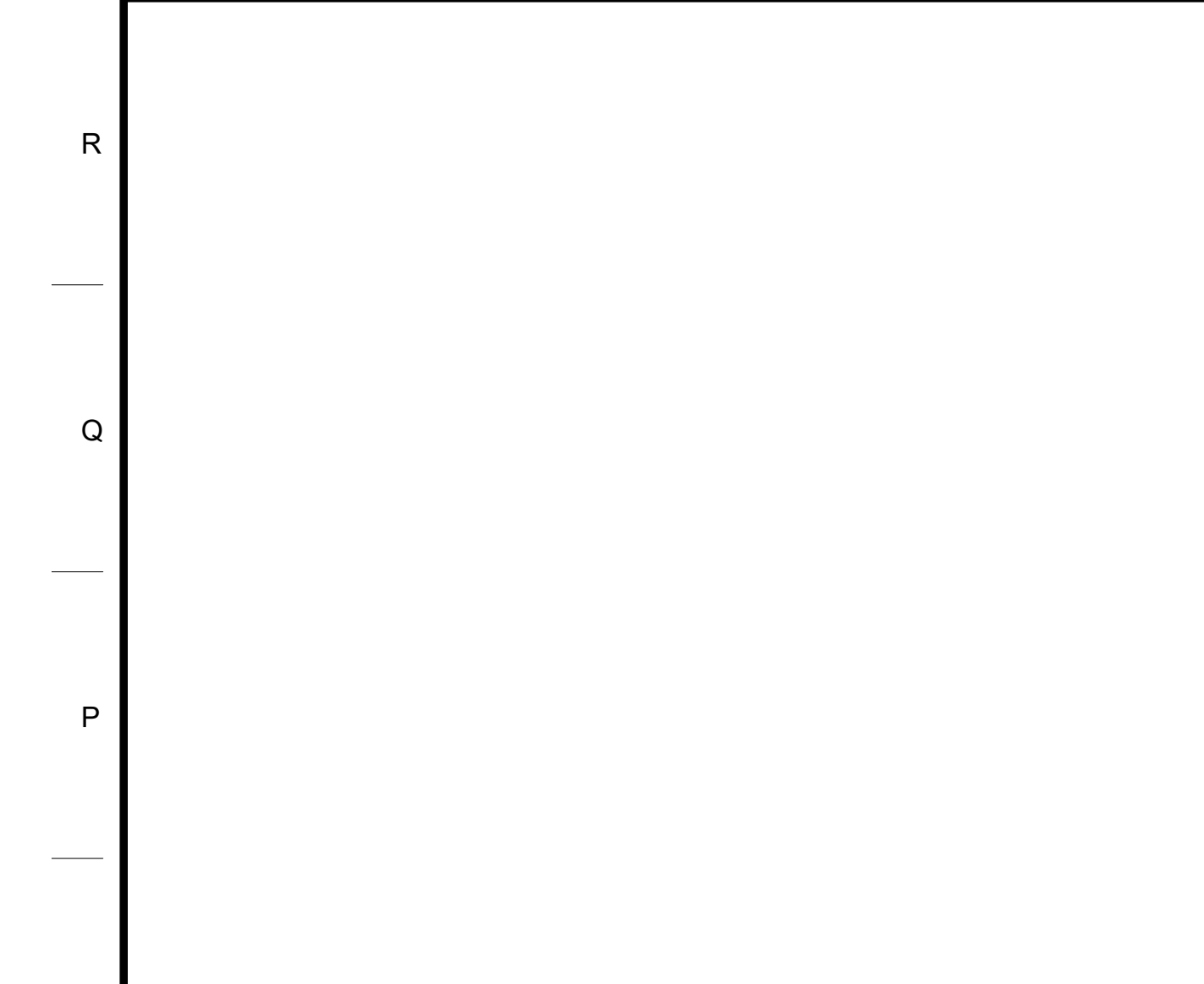
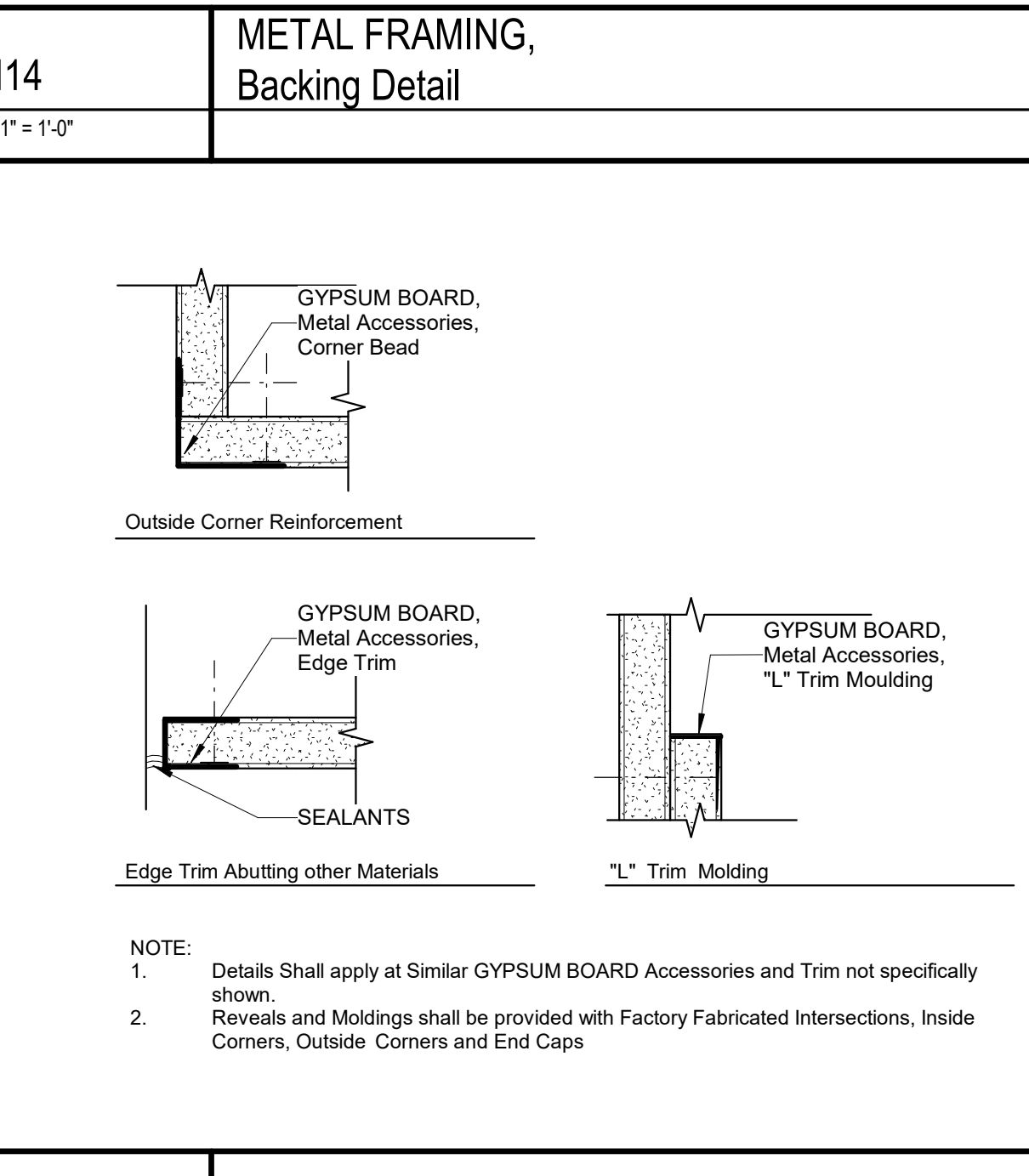
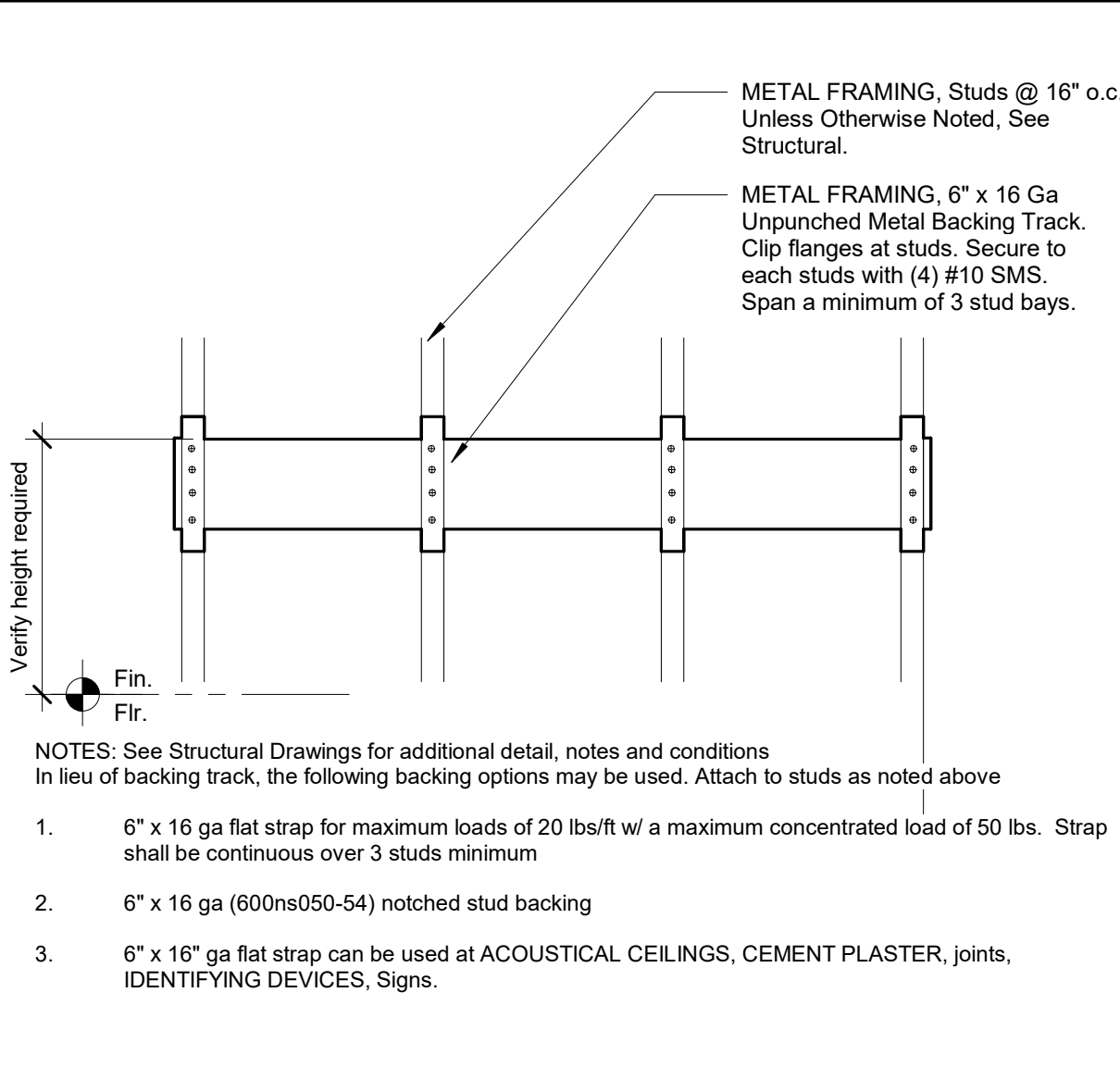
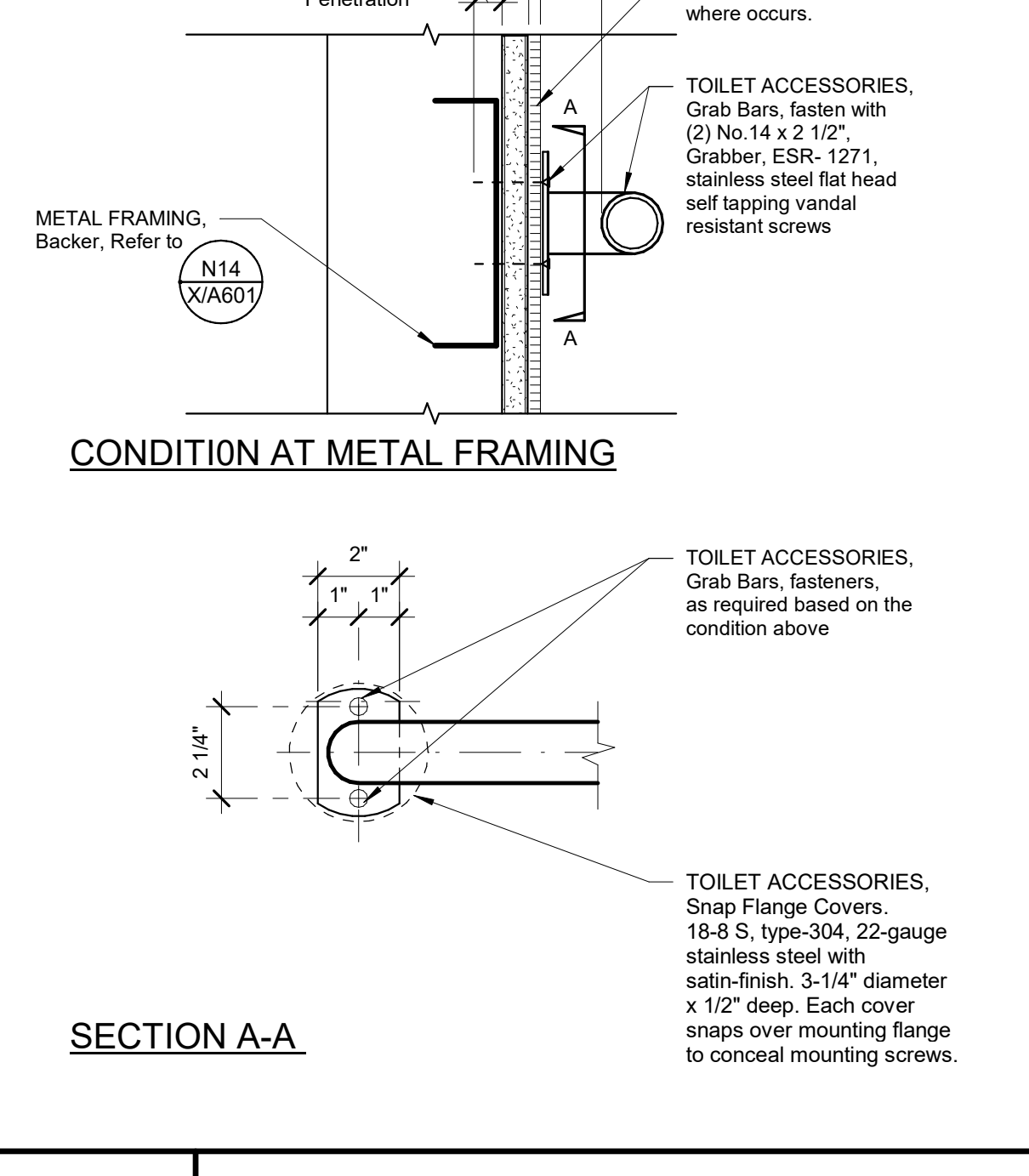
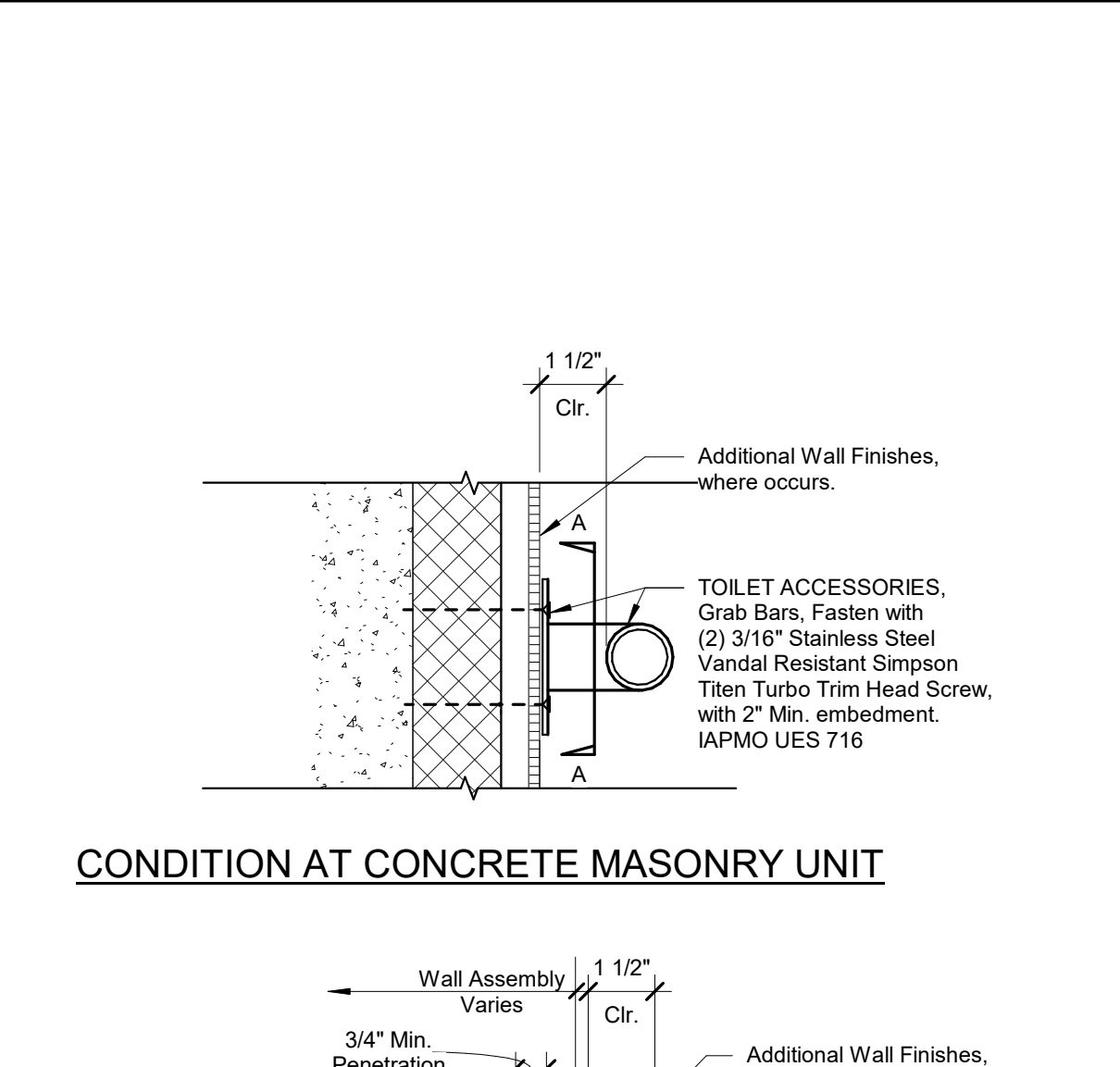
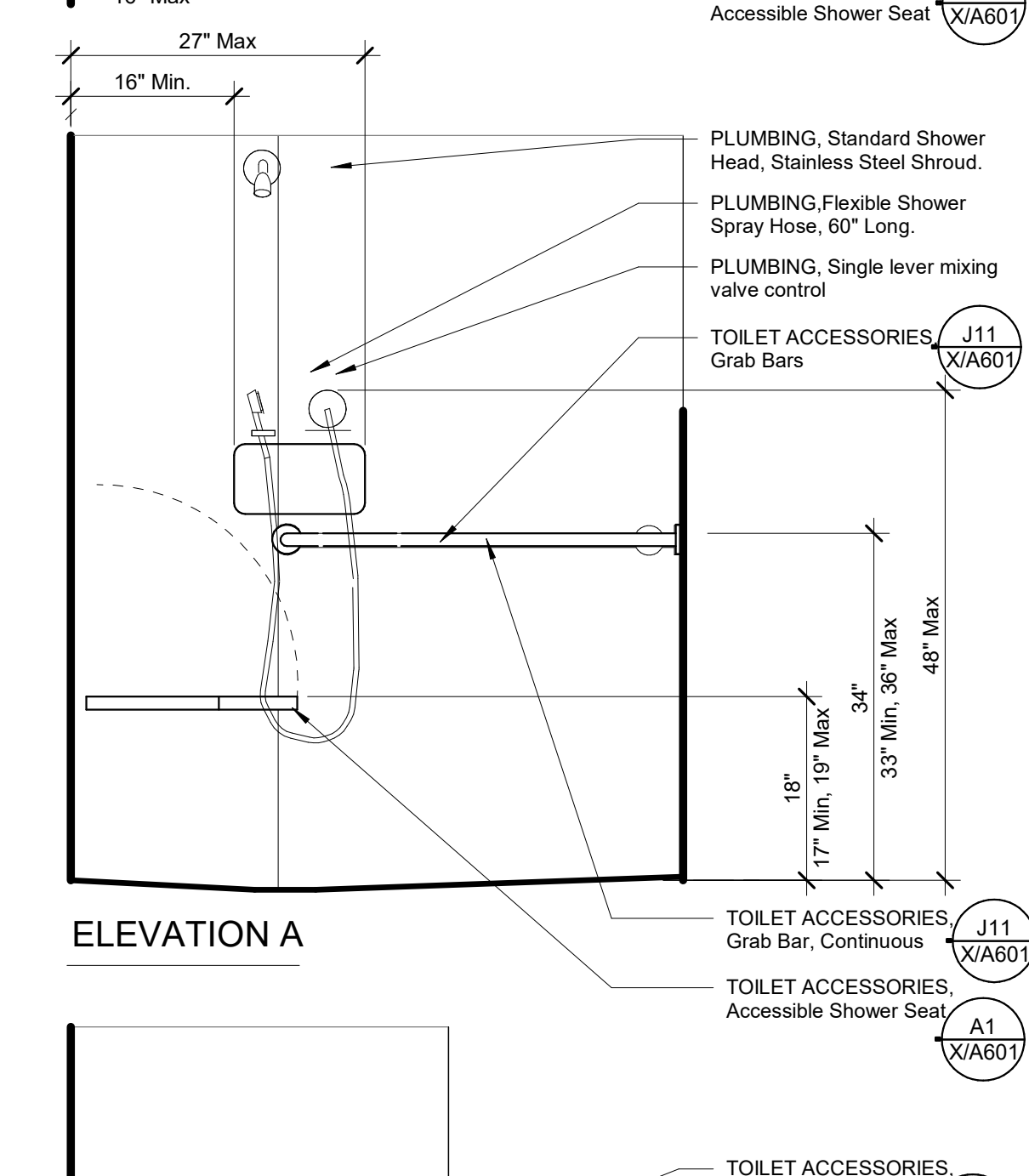
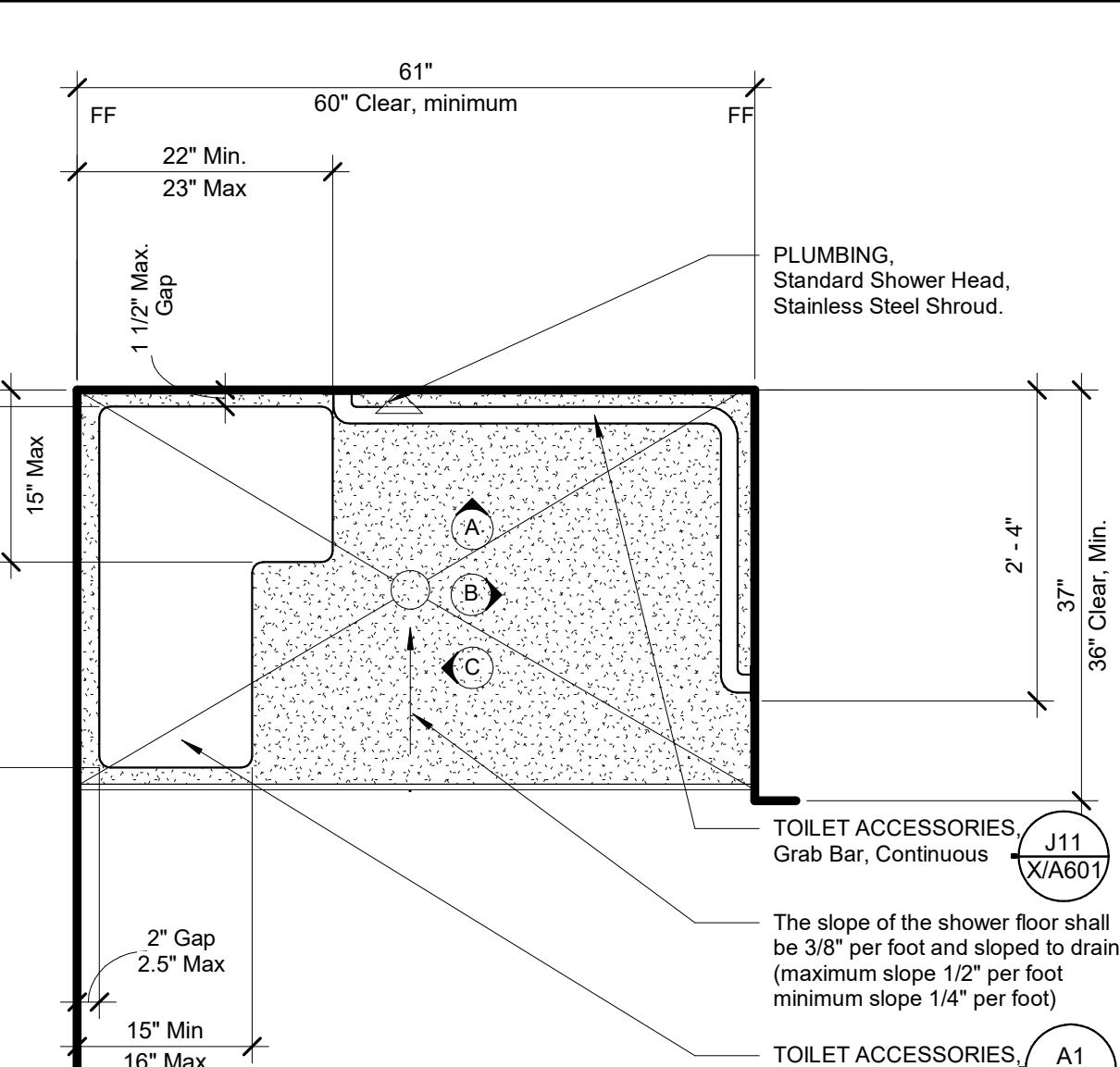
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Checked By: -
Reviewed By: MF

X/A502

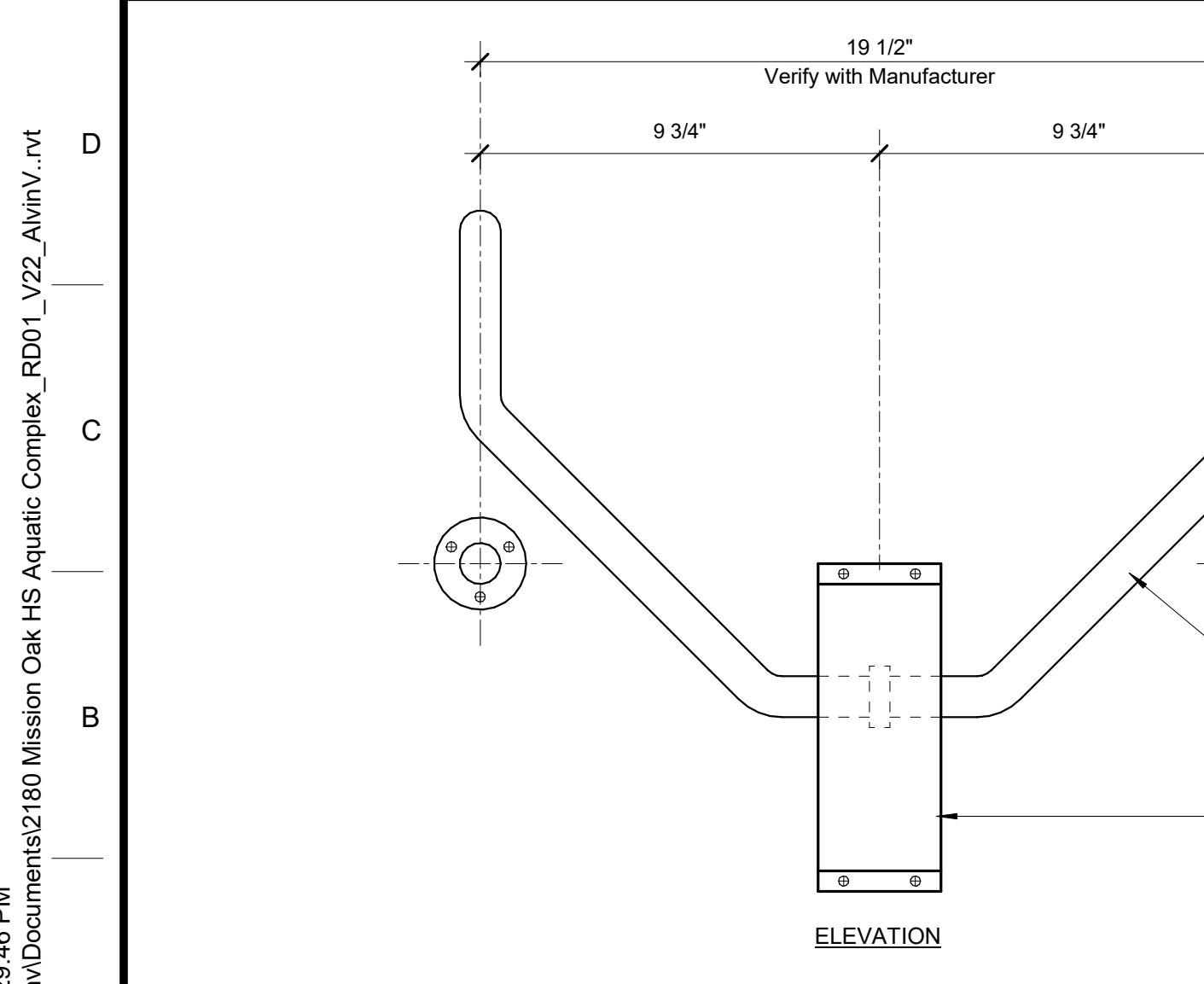
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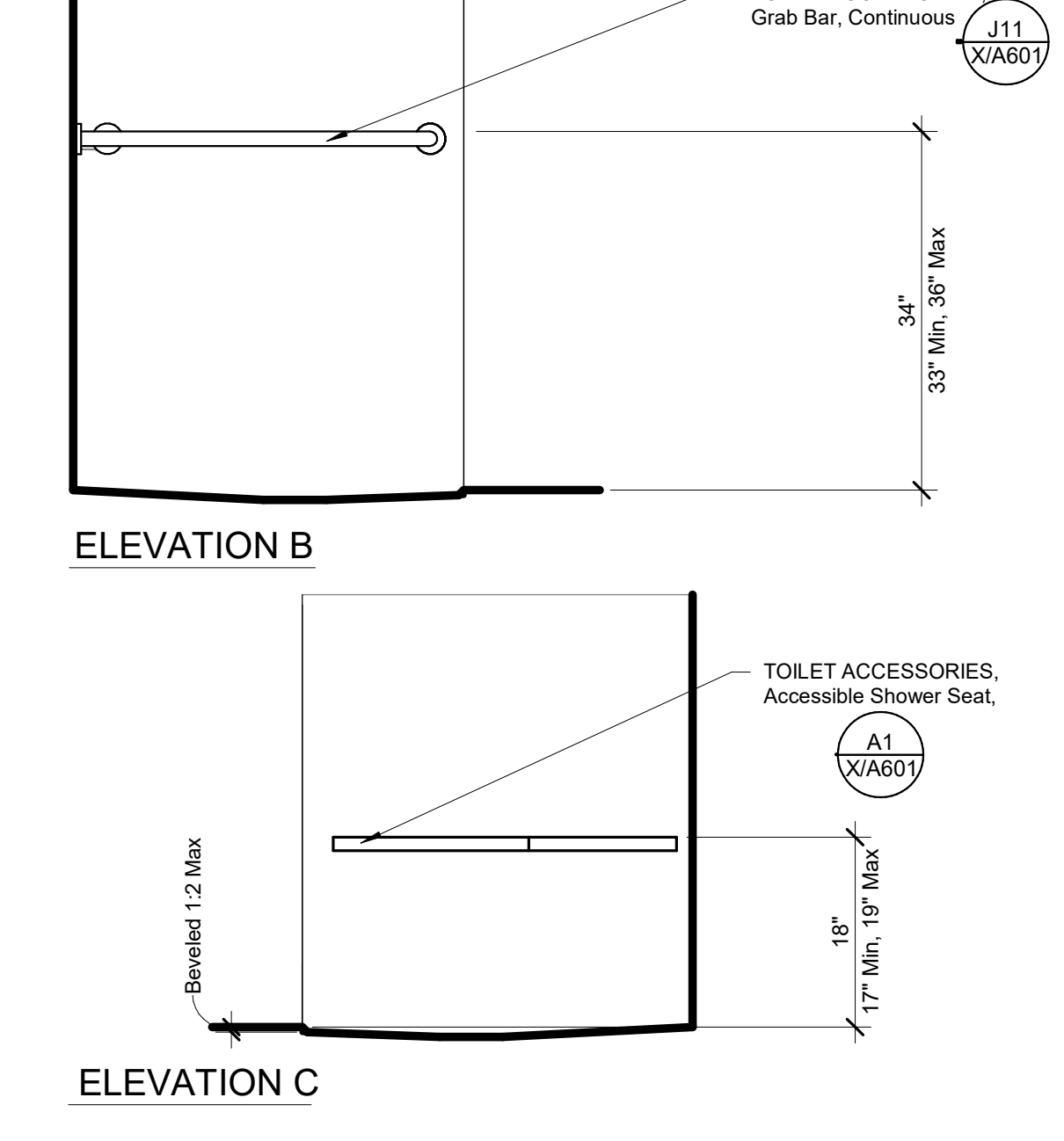
IDENTIFYING DEVICES, Hazardous Material Signage



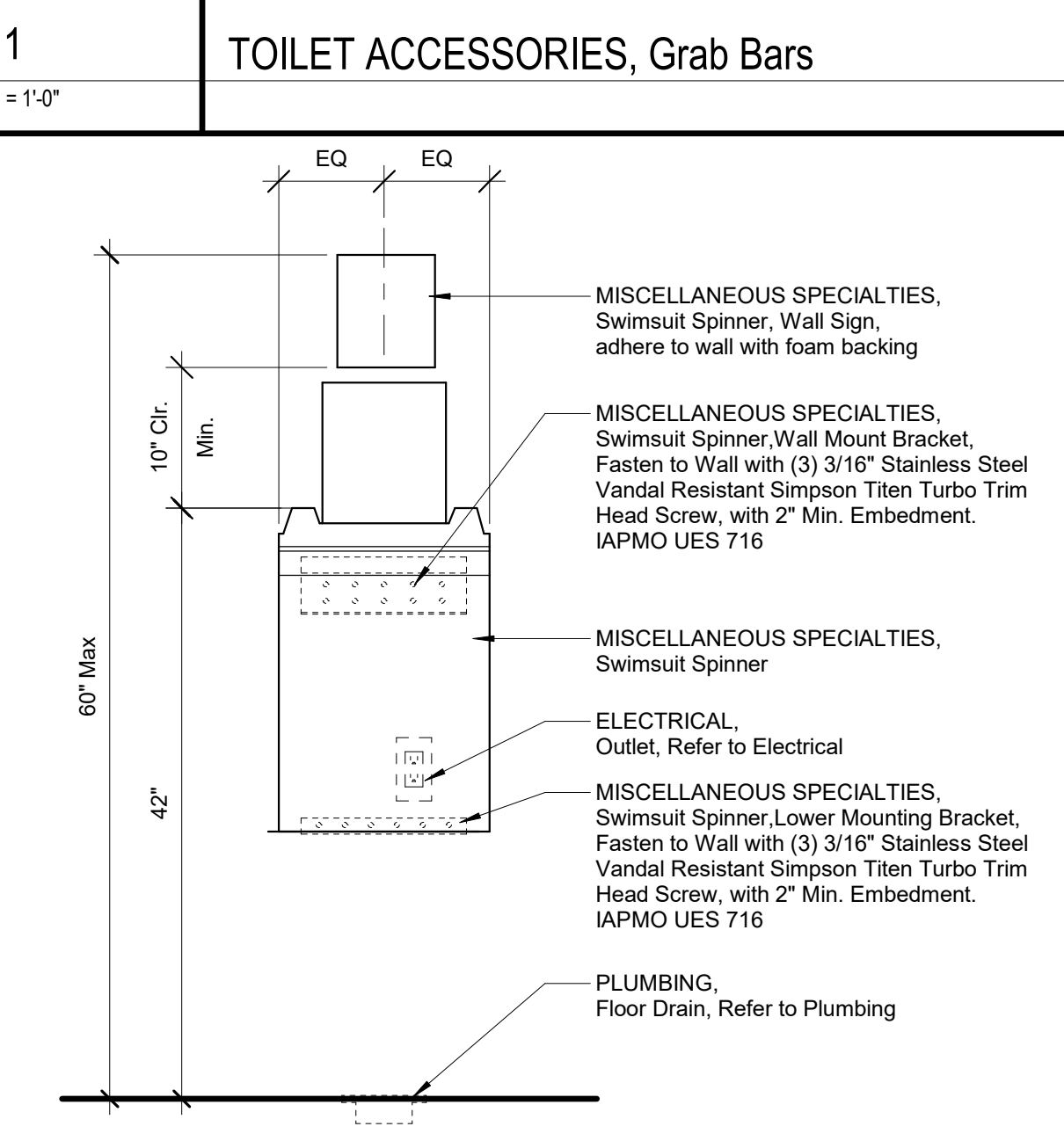
IDENTIFYING DEVICES, Signage Locations and Dimensions



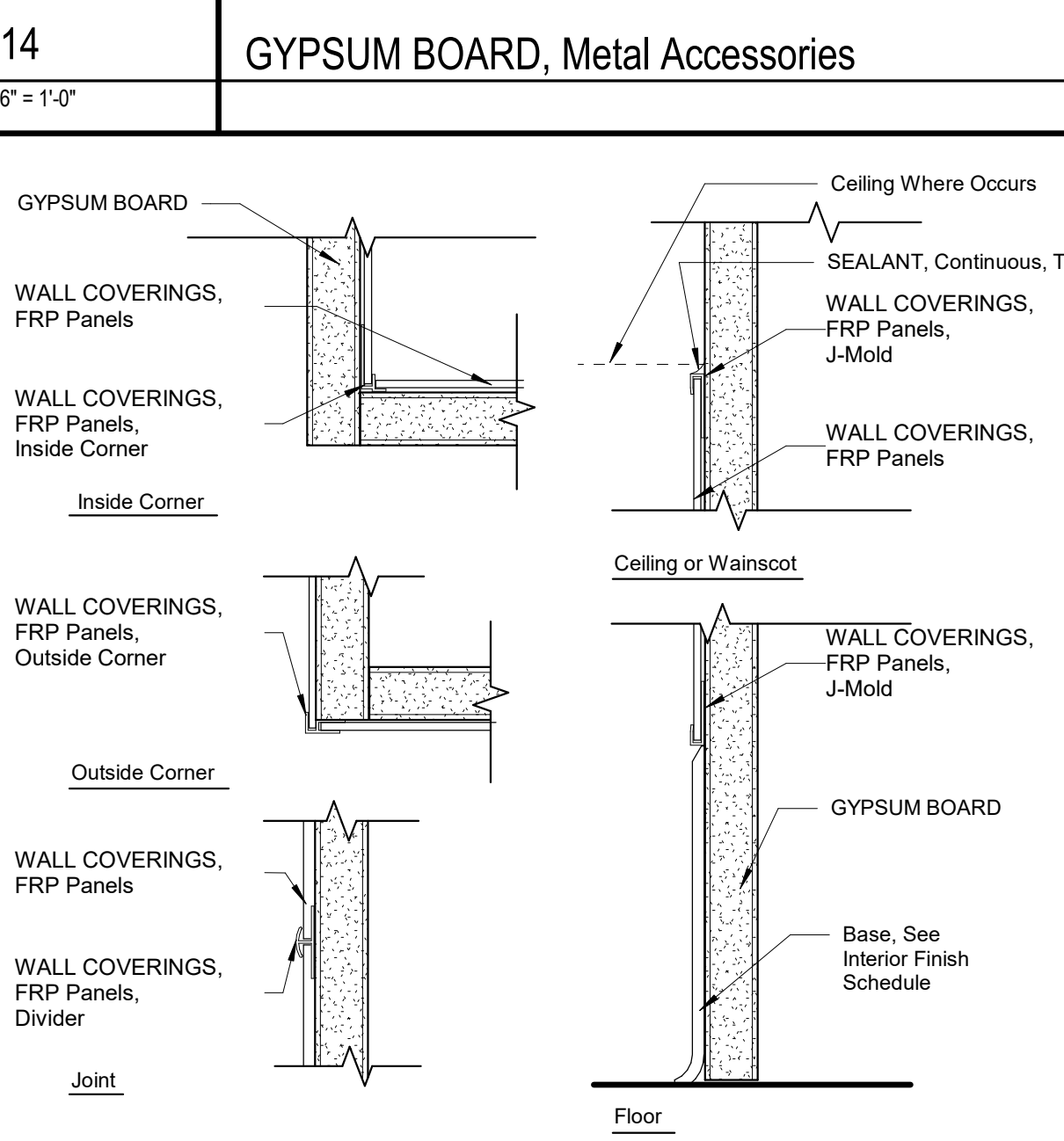
TOILET ACCESSORIES, L-Shaped Accessible Shower Seat



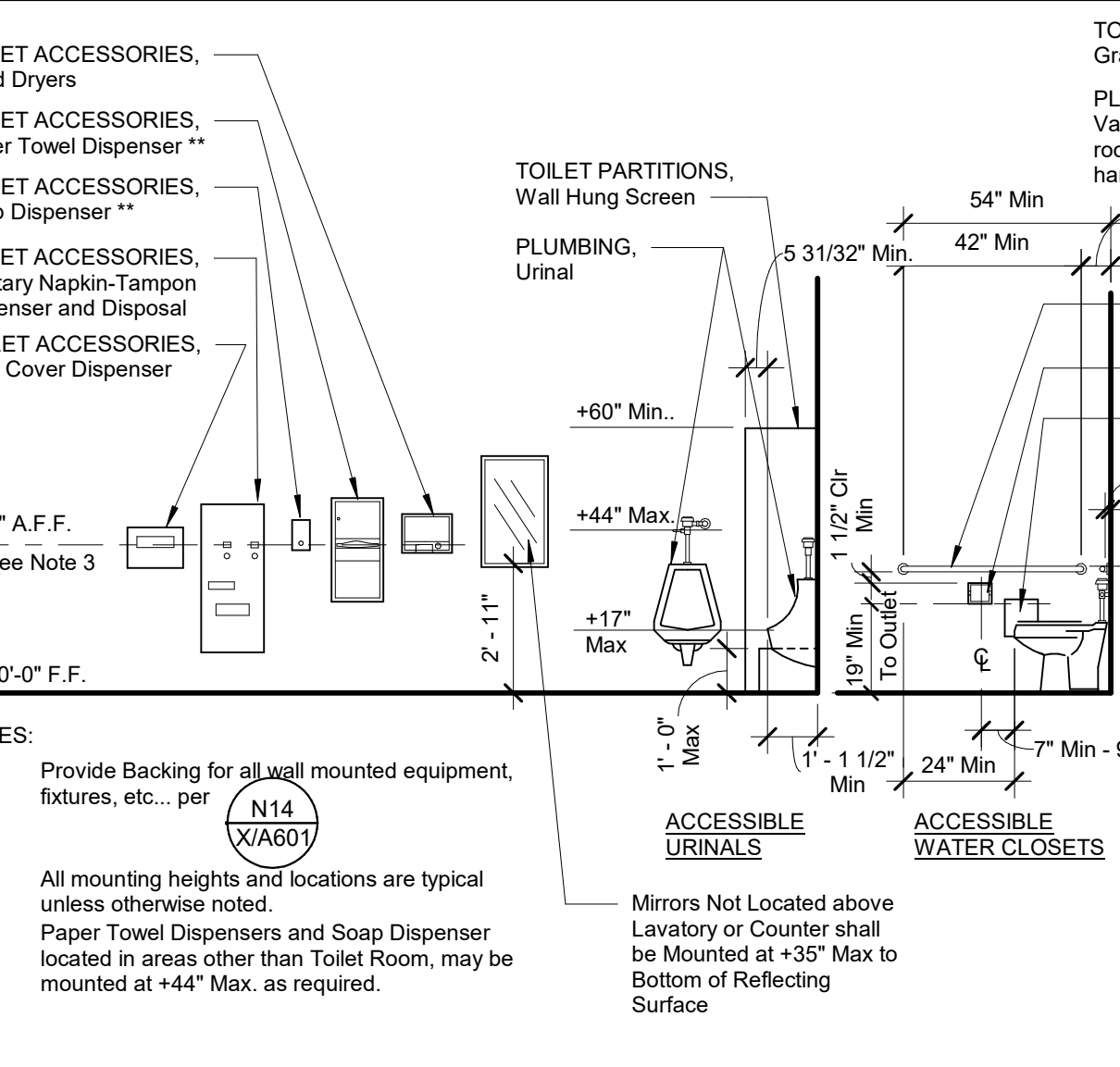
TOILET ACCESSORIES, Accessible Shower



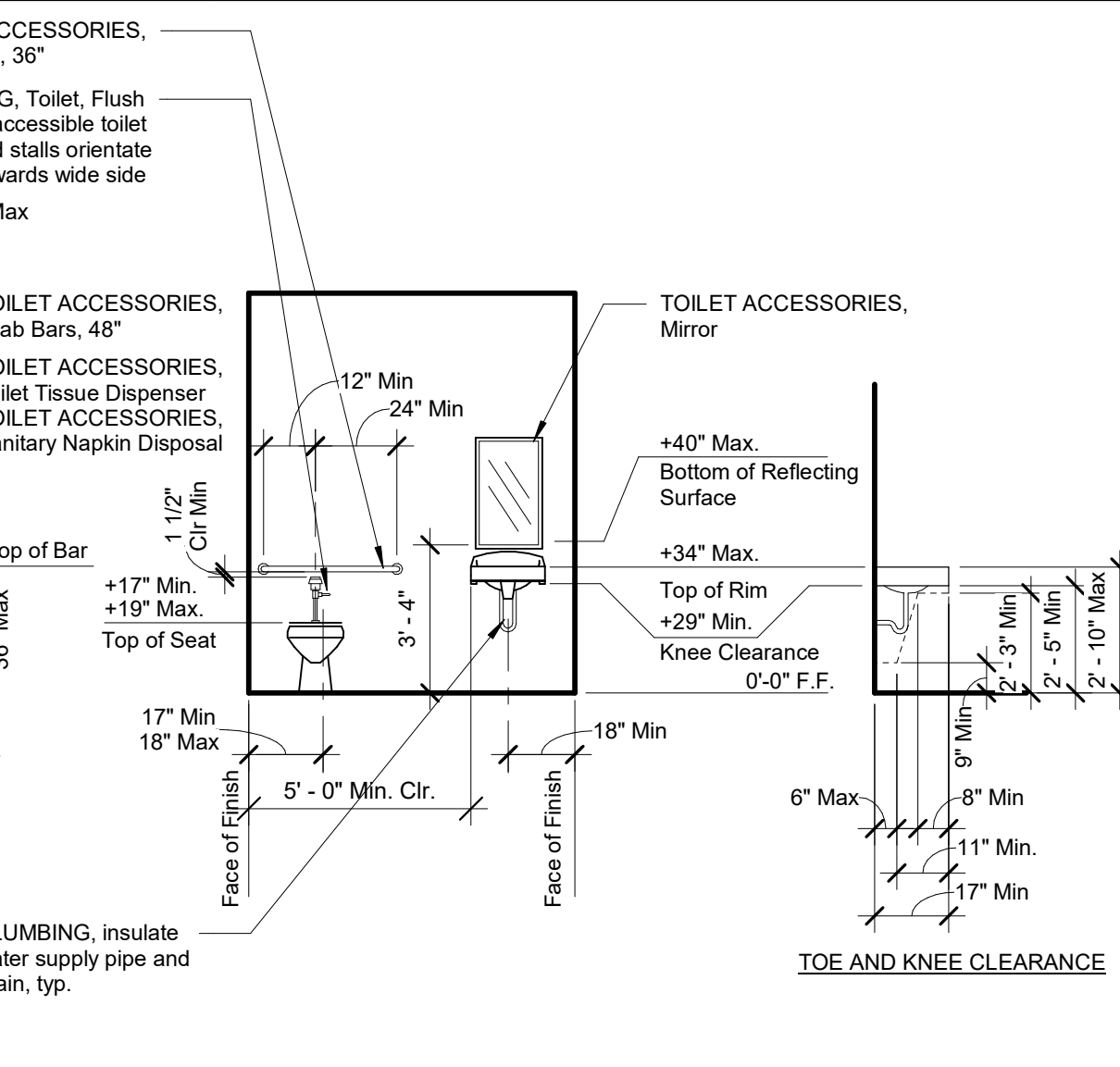
MISCELLANEOUS SPECIALTIES, Swimsuit Spinner



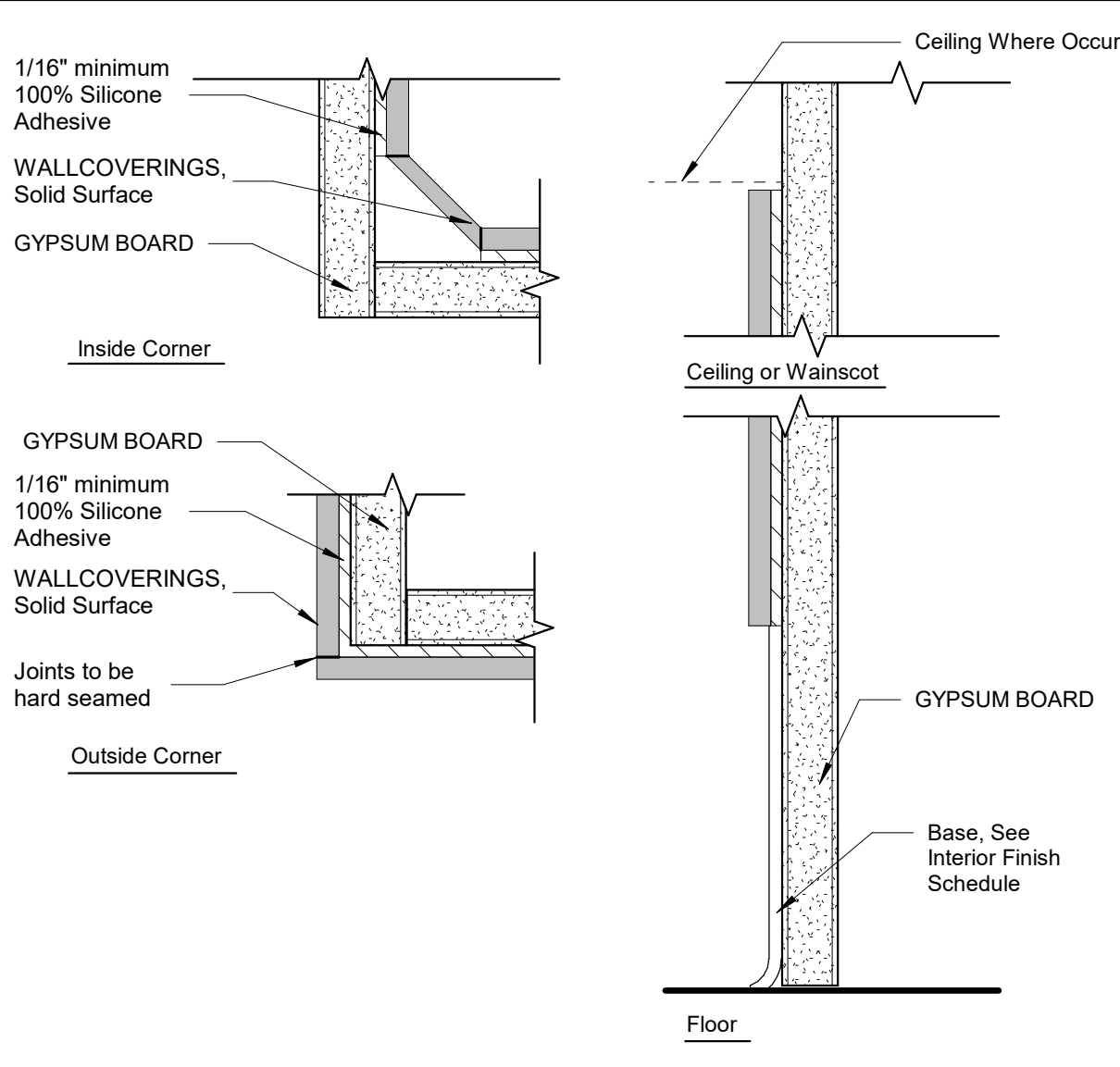
WALL COVERINGS, FRP Panels



TOILET ACCESSORIES AND PLUMBING FIXTURES



WALL COVERINGS, Solid Surface



WALL COVERINGS, Solid Surface

DSA File No.: 54-H11
DSA Application No.: 02-120251
Agency Approval
NOTES

M18 Interior Detail Notes
No Scale

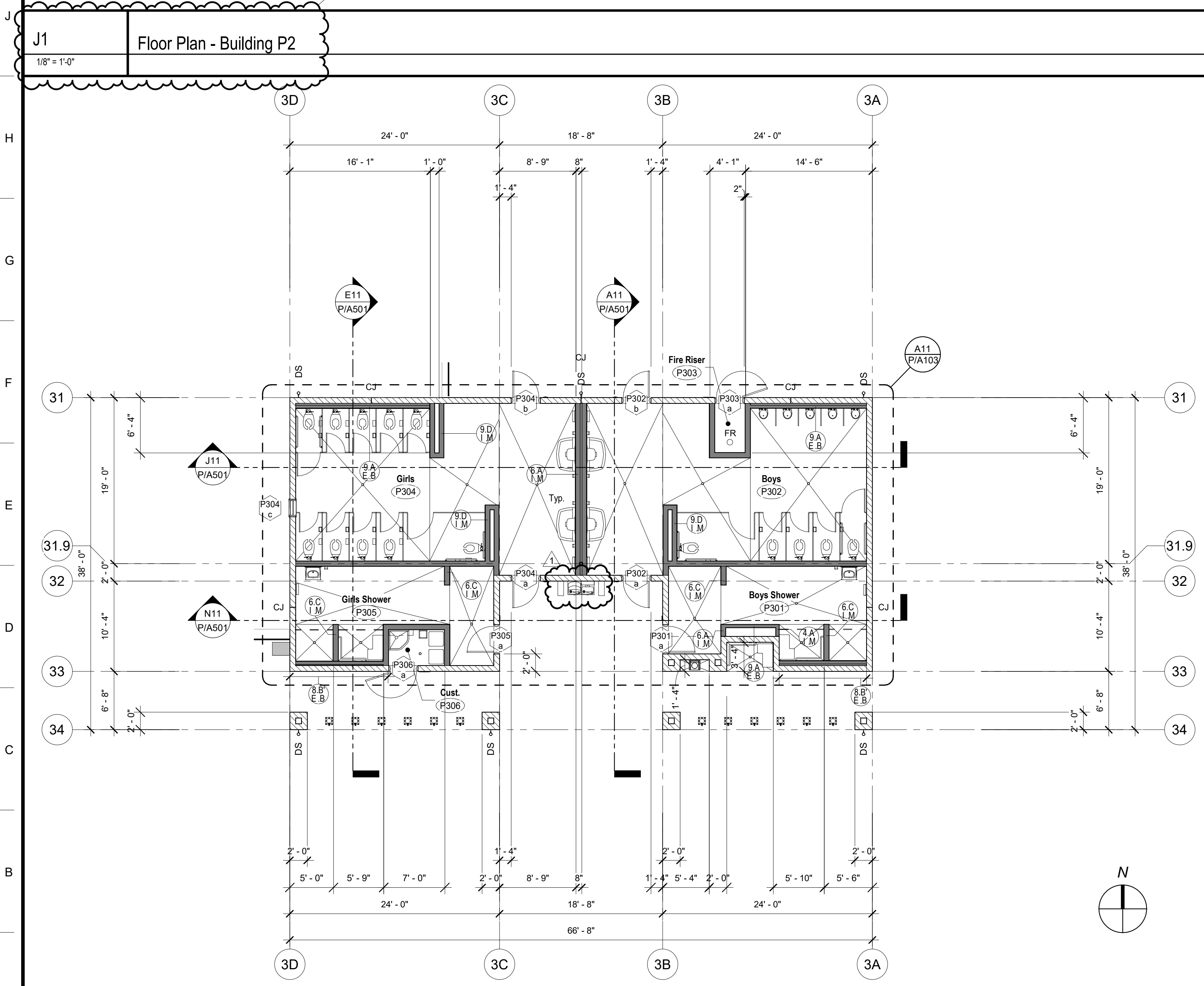
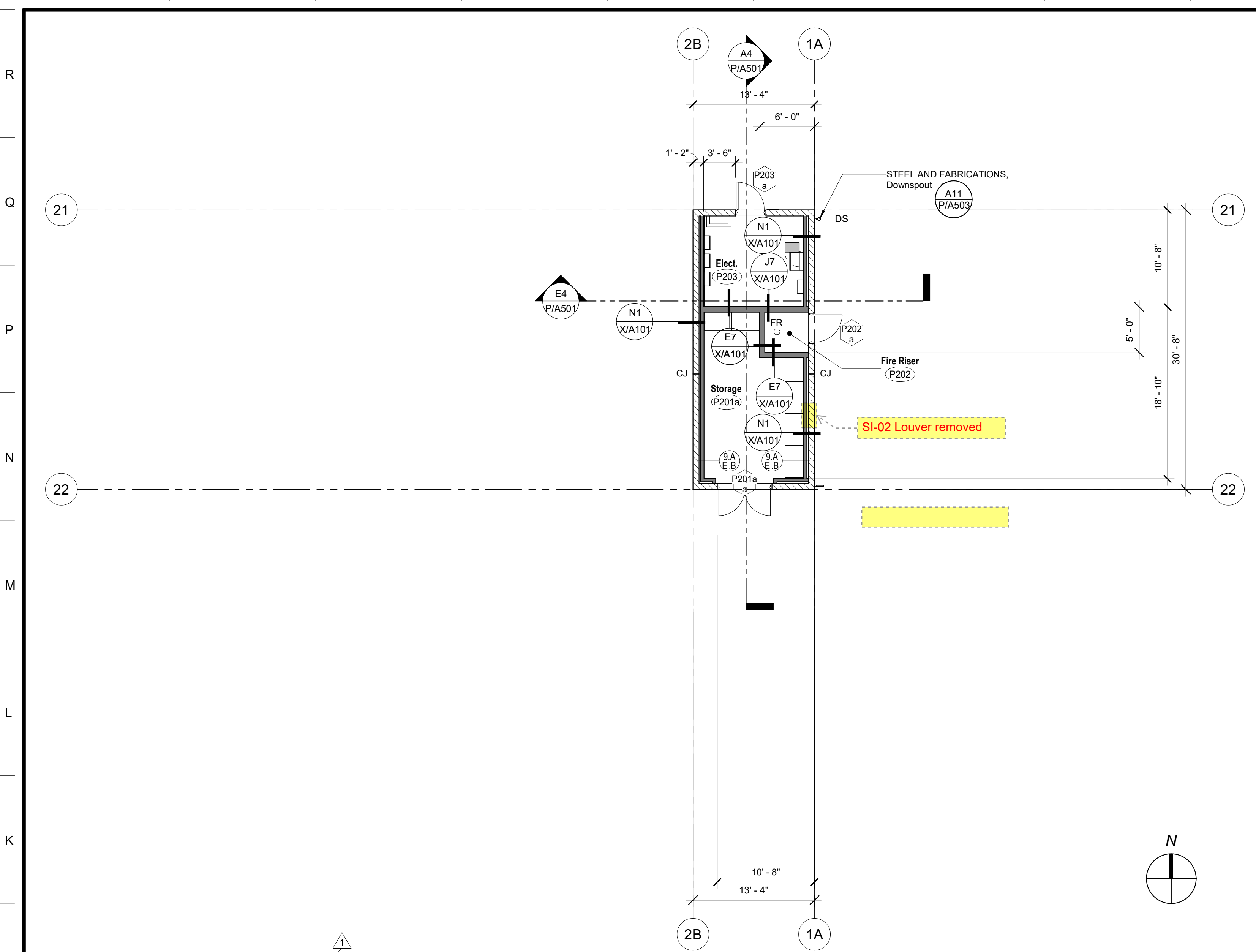
J11 TOILET ACCESSORIES, Grab Bars
J14 GYPSUM BOARD, Metal Accessories

Mission Oak HS Aquatic Complex
Tulare Joint Union High School District
Tulare, CA 93274
TYPICAL INFORMATION
INTERIOR & SIGNAGE DETAILS
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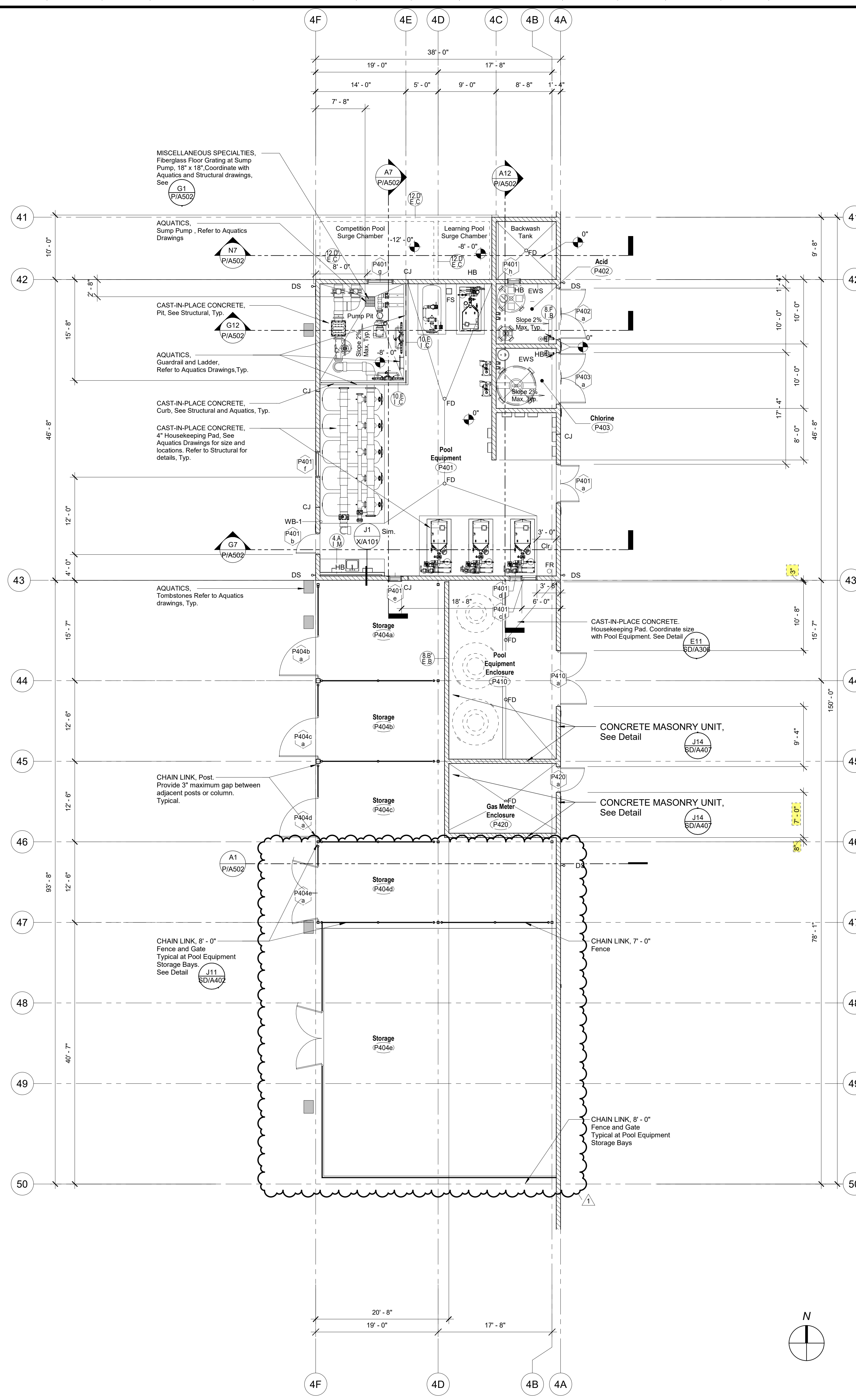
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CONSTRUCTION SET

APPROVED
APP: 02-120251, INC.
REVISED FOR
SS ID P/A501 ACS ID
DATE 08/28/2023



A1 Floor Plan - Building P3
1/8" = 1'-0"



A9 Floor Plan - Building P4
1/8" = 1'-0"

DSA File No.: 54-H11

DSA Application No.: 02-120251

Agency Approval

SYMBOLS

	Concrete Masonry Unit Wall, 8" wide unless otherwise noted.
	Concrete Wall, or Column. Size as indicated.
	Stud Wall. Studs and Interior Wall materials continuous from floor to underside of floor or roof deck. Studs at 16" o.c. unless otherwise noted. Interior Wall material shall include Batt Insulation, Sound Densifying Board, Plywood Sheathing, Gypsum Board, and Cement Plaster/Ceramic Tile setting bed where occurs.
	Reference Grid
	Opening Group No. Refer to Door or Window Opening Schedules
	Equipment Item No. Refer to Equipment Schedule
	Room Designation
	Wall Assembly Symbols. Refer to Sheet X/A101
	Pool Equipment Building Floor Finish Elevation. See Pool Drawings and Structural Drawings.
	Indicates Required Accessible Clearance Space

ABBREVIATIONS

DS	STEEL AND FABRICATIONS, Rain Water Downspout. See Detail A11 P/A503
FE	FIRE PROTECTION SPECIALTIES, Fire Extinguisher and Cabinet, Type FEC-1, Unless Noted Otherwise.
FF	Face of Finish
FOC	Face of Concrete
FD	Floor Drain
FOM	Face of Masonry
FOS	Face of Stud
FR	FIRE PROTECTION, Fire Riser. See Fire Protection Drawings
HB	House Bib
MO	Masonry Opening
UNO	Unless Noted Otherwise
RO	Rough Opening
Typ.	Typical
Sim.	Similar
OH	Opposite Hand

- NOTES**
- All Exterior Walls shall be Wall Assembly Type Unless Noted Otherwise.
 - All Interior Walls shall be Wall Assembly Type Unless Noted Otherwise.
 - All Exterior Soffit Walls and Arches shall be Wall Assembly Type Unless Noted Otherwise.
 - All Dimensions are to Face of Stud (FOS) or Center Line, Unless Noted Otherwise.
 - All Elevation Dimensions are Above Finish Floor at Each Floor Level, Unless Noted Otherwise.
 - Dimensions Noted as "+1/2" are Nominal.
 - Floor Drains (FD) and Floor Sinks (FS) shall be Set-3/4" and a Min. of 3'-0" From Nearest wall, 1:48 Max Slope in Any Direction, Unless Noted Otherwise.
 - IDENTIFYING DEVICES, For Room Signage Refer to and Specifications
 - Integral Cove Base to be PAINT, Specialty Paint.

F18	Floor Plan Legend
No Scale	

Mission Oak HS Aquatic Complex
Tulare Joint Union High School District
Tulare, CA 93274 Project

BUILDING P2, P3 & P4
FLOOR PLANS
Drawing

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ARCHITECT

No.	Revision/Submission	Date
1	REVISION_01	05/31/2023

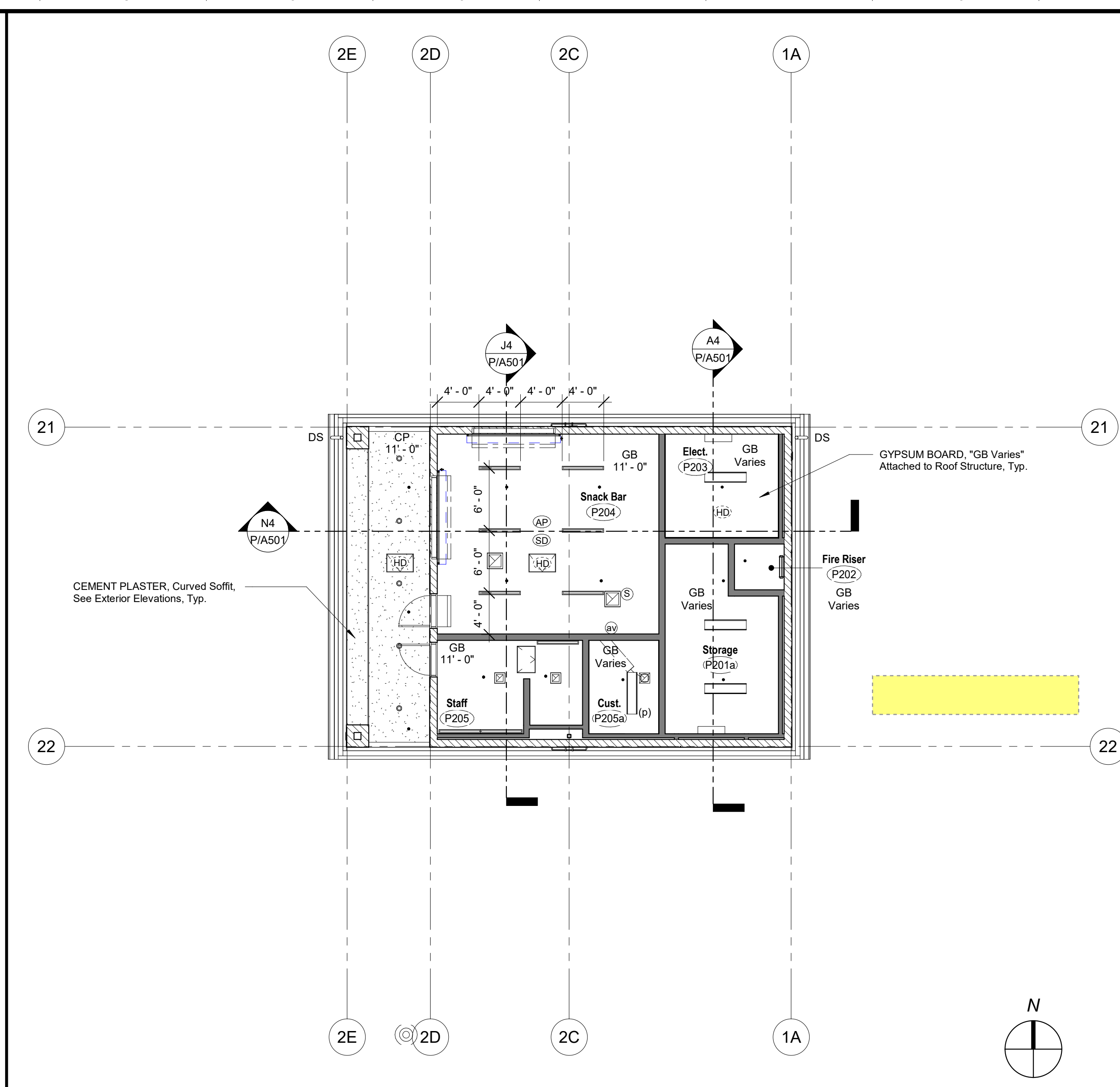
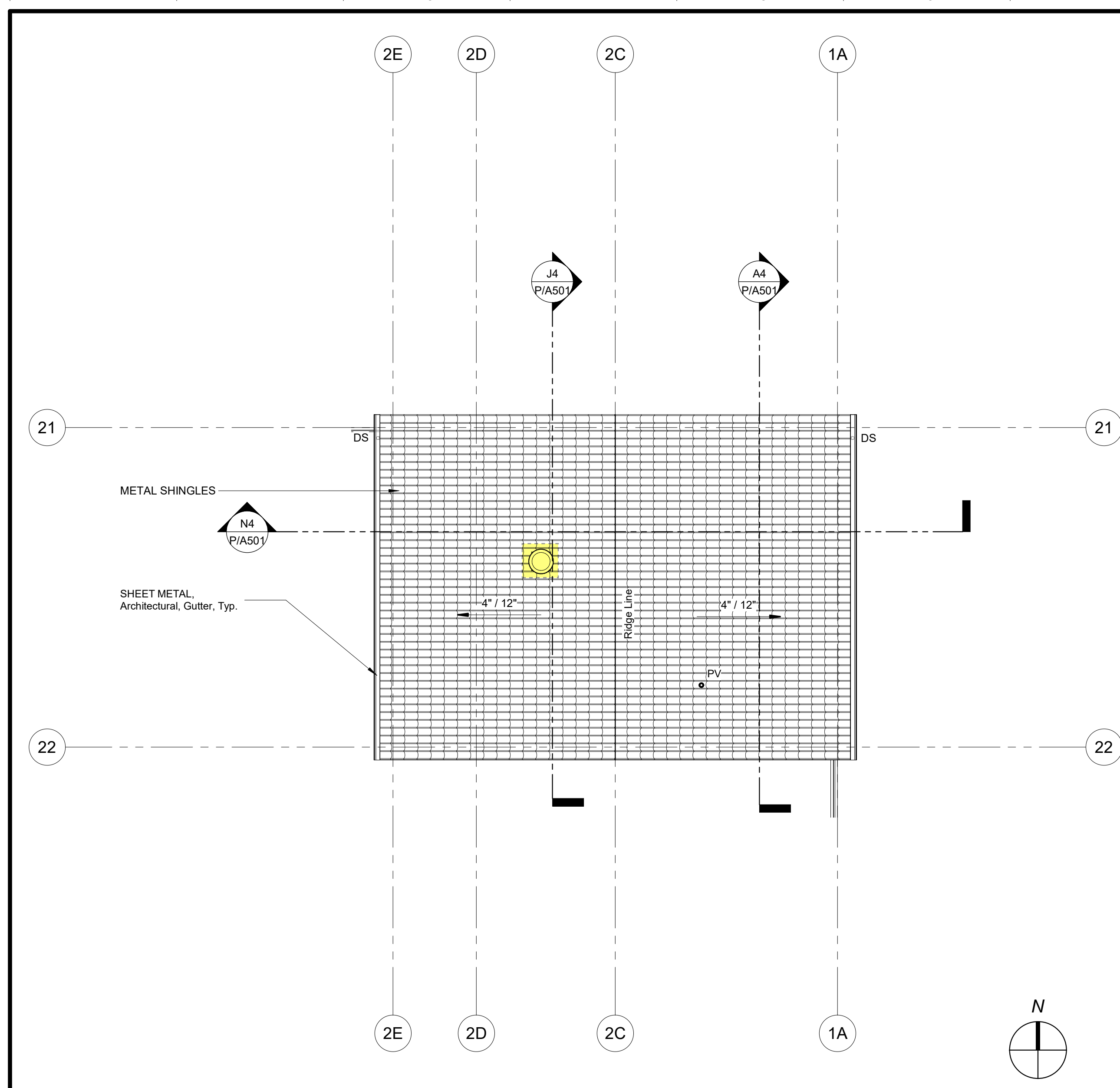
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Project Number: 2180	Checked By: -	
Date: 03/28/2023	Reviewed By: MF	

P/A101

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CONSTRUCTION SET

APPROVED
APP: 02-120251, INC.
REVIEWED FOR
SS ID: P/A101, ACS ID
DATE: 08/28/2023



SYMBOLS

- ACoustical Ceilings, Suspended Ceiling Compression Strut/ Splay Wire location
- PLUMBING, Overflow Drain
- FIRE PROTECTION, Fire Sprinkler Head
- MECHANICAL, Air Supply Grill
- MECHANICAL, Air Return Grill
- MECHANICAL, Strip Grill
- MECHANICAL, Exhaust Fan
- ELECTRICAL, Light Fixture, Surface Mounted, Unless Noted Otherwise.
- ELECTRICAL, Fire Alarm Device, Heat Detector
- ELECTRICAL, Fire Alarm Device, Smoke Detector
- ELECTRICAL, Fire Alarm Audio Visual Speaker
- ELECTRICAL, Public Address System Speaker
- ELECTRICAL, Wireless Access Point
- CEMENT PLASTER, Cement Plaster System, See Structural for Framing, Color to be PC-1. Refer to Exterior Color Schedule.
- CEMENT PLASTER, Cement Plaster System, See Structural for Framing, Color to be PC-2. Refer to Exterior Color Schedule.
- METAL DECK, See Structural Drawings.
- ACCESS DOORS AND FRAMES, Access Doors, Ceiling (20" X 30"), UNO
- Reference Point

ABBREVIATIONS

- DS STEEL AND FABRICATIONS, Rain Water Downspout.
- CLG Ceiling
- CP CEMENT PLASTER, System
- GB GYPSUM BOARD
- GLB GLUE-LAMINATED CONSTRUCTION, Beam
- HT Height
- MD METAL DECK
- TYP Typical
- SM Similar
- OH Opposite hand
- DS Downspout
- OD Overflow Drain
- UNO Unless Noted Otherwise

NOTES

1. See Structural for Framing of Soffits and Ceilings
2. Single Lights or Single Rows of Lights at Soffit/ Ceilings Shall be Centered, UNO.
3. Refer to Interior Color Schedule for color.
4. Ceiling Color to Match to Adjacent Surface, Unless Otherwise Noted. Refer to Interior Elevation and Interior Design Plan for Color Location.

DSA File No.: 54-H11

DSA Application No.: 02-120251

Agency Approval

SYMBOLS

- Concrete Masonry Unit Wall, 8" wide unless otherwise noted.
- Concrete Wall, or Column. Size as indicated.
- Stud Wall. Studs and interior Wall materials continuous from floor to underside of floor or roof deck. Studs at 16" o.c. unless otherwise noted. Interior Wall material shall include Batt Insulation, Sound Densifying Board, Plywood Sheathing, Gypsum Board, and Cement Plaster/Ceramic Tile setting bed where occurs.
- Stud Wall. Studs and finish material continuous from floor to minimum 6" above ceiling. Studs to be braced to underside of roof framing or deck if not required to be continuous to roof framing or deck. Studs at 16" o.c. Unless Otherwise Noted. See Structural for bracing and extent of Structural Sheathing.
- Reference Grid
- Opening Group No. Refer to Door or Window Opening Schedules
- Equipment Item No. Refer to Equipment Schedule
- Room name
- Wall Assembly Symbols. Refer to Sheet X/A101
- Pool Equipment Building Floor Finish Elevation. See Pool Drawings and Structural Drawings.
- Indicates Required Accessible Clearance Space
- Indicates Required Accessible Clearance Space

ABBREVIATIONS

- DS STEEL AND FABRICATIONS, Rain Water Downspout. See Detail A11 P/A503
- FE FIRE PROTECTION SPECIALTIES, Fire Extinguisher and Cabinet, Type FEC-1, Unless Noted Otherwise.
- FF Face of Finish
- FDC Face of Concrete
- FD Floor Drain
- FOM Face of Masonry
- FOS Face of Stud
- HB Hose Bib
- MO Masonry Opening
- UNO Unless Noted Otherwise
- RO Rough Opening
- TYP Typical
- SM Similar
- OH Opposite Hand

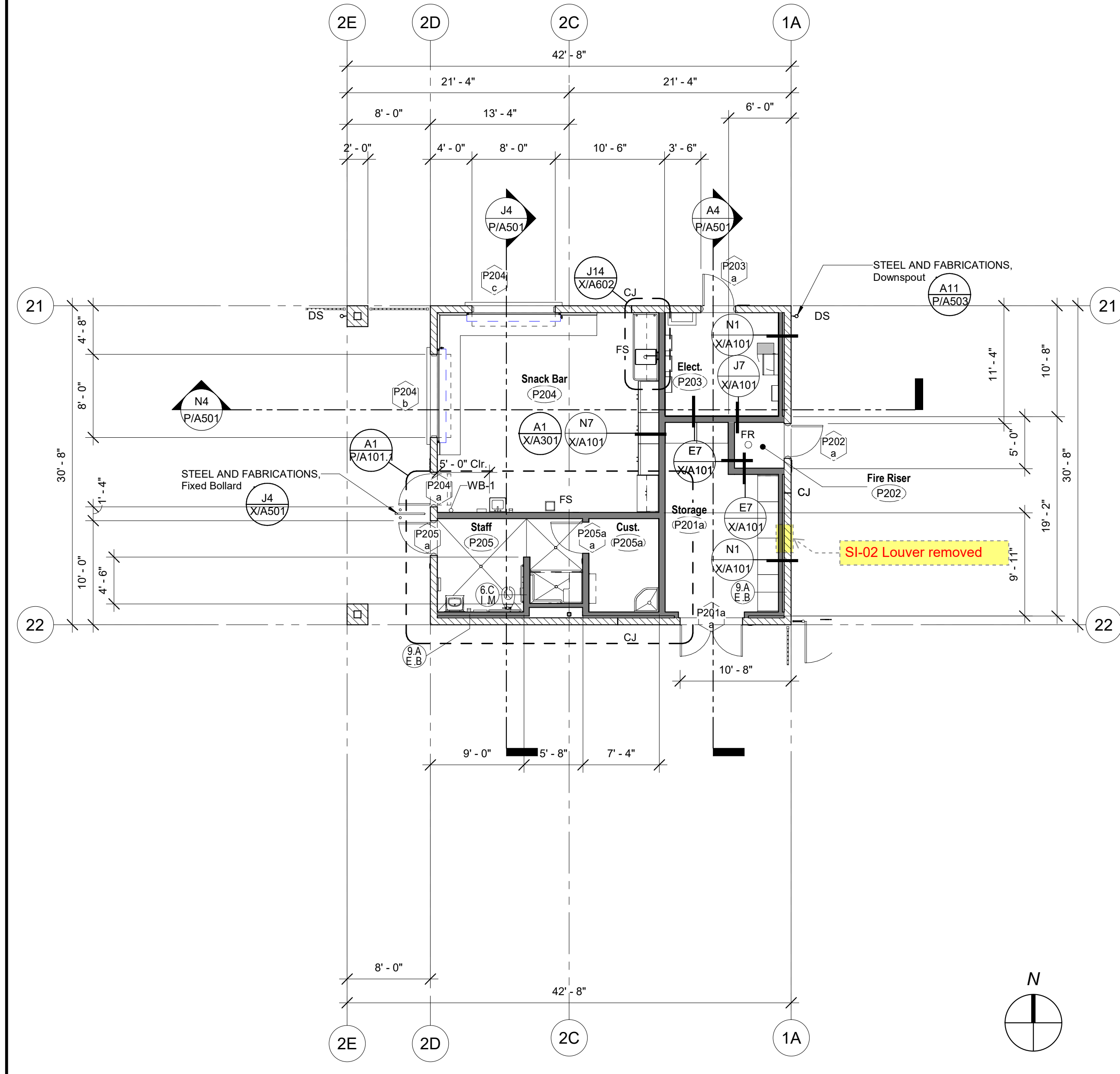
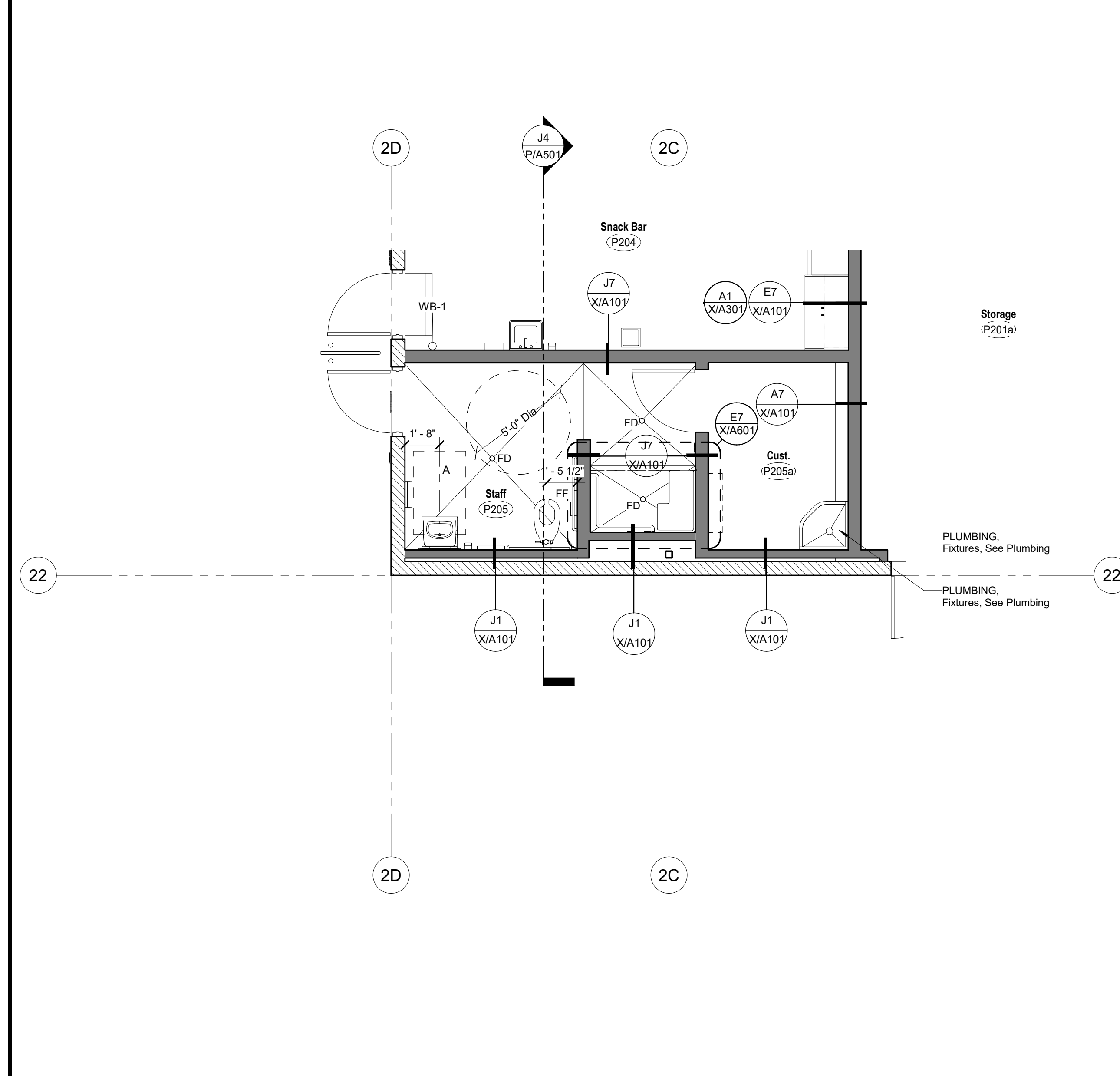
NOTES

1. All Exterior Walls shall be Wall Assembly Type E1/A601 Unless Noted Otherwise.
2. All Exterior Soffit Walls and Arches shall be Wall Assembly Type 4D' Unless Noted Otherwise.
3. All Dimensions are to Face of Stud (FOS) or Center Line, Unless Noted Otherwise.
4. All Elevation Dimensions are above Finish Floor at each floor level, Unless Noted Otherwise.
5. Dimensions noted as "+/-" are nominal.
6. Floor Drains (FD) and Floor Sinks (FS) shall be set .3/4" and a min. of 3'-0" from nearest wall, Unless Noted Otherwise.
7. IDENTIFYING DEVICES, For Room Signage refer to E1 X/A601 and to Specifications
8. Integral cove base to be PAINT, Specialty Paint.

J1 Roof Plan - Building P2
1/8" = 1'-0"

J7 Reflected Ceiling Plan - Building P2
1/8" = 1'-0"

J14 Reflected Ceiling Legend
No Scale



SYMBOLS

- PLUMBING, Vent with METAL SHINGLES Roofing Jack. Powder Coated finish to match the color of the Metal Shingle Room System. Coordinate the locations and sizes between the trades. A7 X/A502
- PLUMBING, Flue with METAL SHINGLES Roofing Jack. Powder Coated finish to match the color of the Metal Shingle Room System. Coordinate the locations and sizes between the trades. J7 X/A502
- Elevation above finish floor
- Slope (DN)
- Direction of slope
- Line of Wall below
- Reference Point

ABBREVIATIONS

- DS STEEL AND FABRICATIONS, Rain Water Downspout.
- SEJ SHEET METAL, Architectural Gutters, Expansion Joint
- FD Frng. Face of Framing
- OD PLUMBING, Overflow Drain
- TOP Top of Framing
- PLUMBING, Roof Drain
- TOM Top of Masonry
- OH Opposite Hand
- FOS Face of Stud
- TOS Top of Steel
- SM Similar
- TYP Typical

NOTES

1. Refer to Plumbing, Mechanical, and Electrical for all roof penetrations and roof mounted equipment. Coordinate the type of roof penetration with the METAL SHINGLES trade contractor and manufacturer for the flashing and installation of the penetration. Provide shop drawings for locations and shop drawings.

F18 Floor Plan Legend

No Scale

A1 ENLARGED FLOOR PLAN
1/4" = 1'-0"

A7 Floor Plan - Building P2
1/8" = 1'-0"

A14 Roof Plan Legend
No Scale

Mission Oak HS Aquatic Complex
Tulare Joint Union High School District
Tulare, CA 93274

BUILDING P1
ALTERNATE BID - BUILDING P2 - SNACK BAR BUILDING
Drawing

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Architect

No.	Revision/Submission	Date
1	REVISION_01	05/31/2023

Revision

Designed By: MF Copyright 2022 Darden Architects
Scale: As indicated Drawn By: FM
Project Number: 2180 Checked By: -
Date: 03/28/2023 Reviewed By: MF

P/A101.1

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CONSTRUCTION SET

APPROVED
BY THE STATE ARCHITECT
APP: 02-120251, INC.
REVIEWED FOR
SS ID: FLS ID: ACS ID
DATE: 08/28/2023

DSA File No.:
54-H11

DSA Application No.:
02-120251

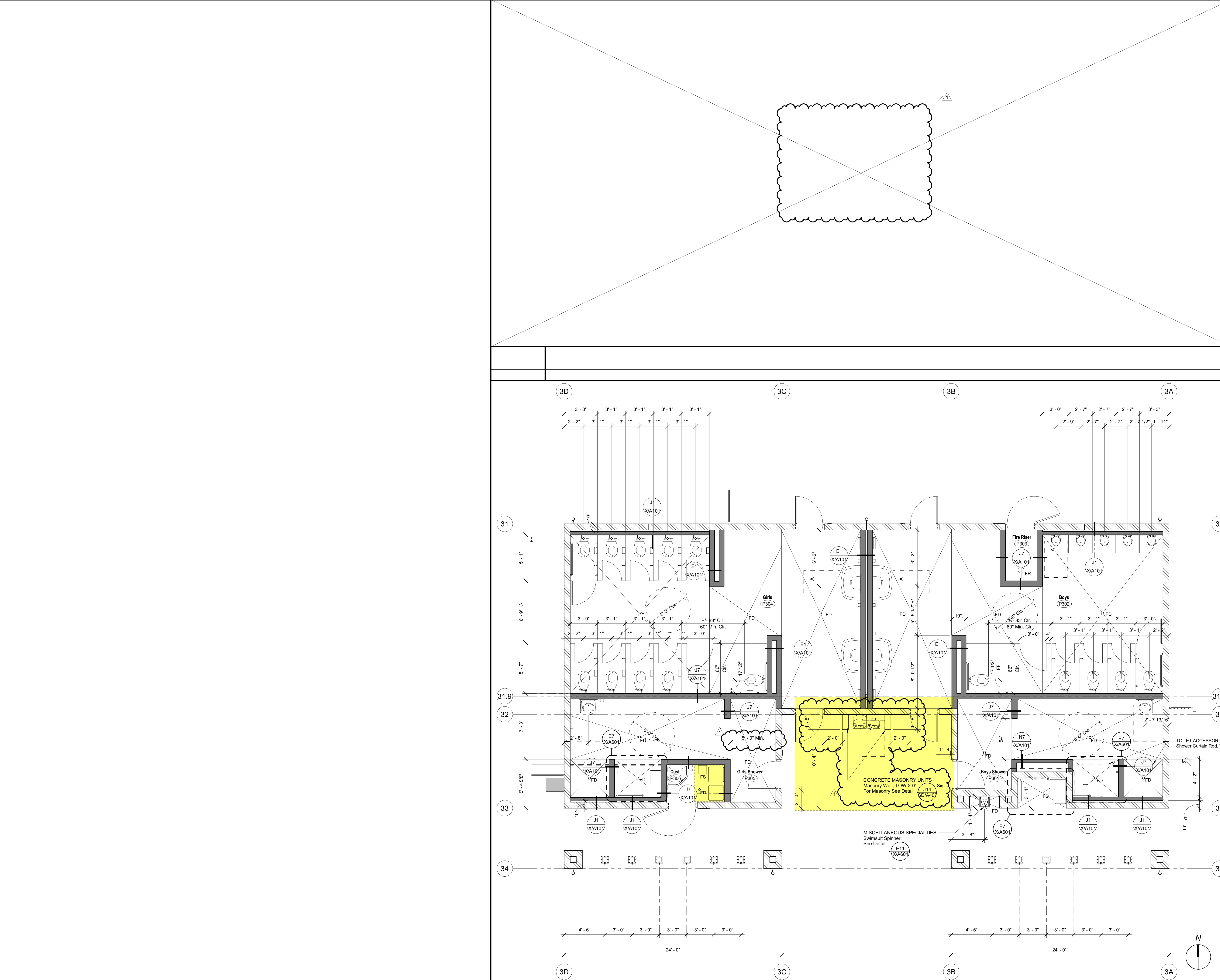
Agency Approval

- ### SYMBOLS
- Concrete Masonry Unit Wall, 8" wide unless otherwise noted.
 - Concrete Wall, or Column. Size as indicated.
 - Stud Wall. Studs and Interior Wall materials continuous from floor to underside of floor or roof deck. Studs at 16" o.c. unless otherwise noted. Interior Wall material shall include Batt Insulation, Sound Deadening Board, Plywood Sheathing, Gypsum Board, and Cement Plaster/Ceramic Tile setting bed where occurs.
 - Reference Grid
 - Opening Group No. Refer to Door or Window Opening Schedules
 - Equipment Item No. Refer to Equipment Schedule
 - Room Designation
 - Wall Assembly Symbols. Refer to Sheet X/A101
 - Pool Equipment Building Floor Finish Elevation. See Pool Drawings and Structural Drawings.
 - Indicates Required Accessible Clearance Space
 - Indicates Required Accessible Clearance Space

- ### ABBREVIATIONS
- DS STEEL AND FABRICATIONS, Rain Water Downspout. See Detail A11 P/A503
 - FE FIRE PROTECTION SPECIALTIES, Fire Extinguisher and Cabinet, Type FE-1, Unless Noted Otherwise.
 - FF Face of Finish
 - FC Face of Concrete
 - FD Floor Drain
 - FOM Face of Masonry
 - FOS Face of Stud
 - FR FIRE PROTECTION, Fire Riser, See Fire Protection Drawings
 - HB Hose Bib
 - MO Masonry Opening
 - UNO Unless Noted Otherwise
 - RO Rough Opening
 - Typ. Typical
 - Sim. Similar
 - OH Opposite Hand

- ### NOTES
1. All Exterior Walls shall be Wall Assembly Type Unless Noted Otherwise.
 2. All Interior Walls shall be Wall Assembly Type Unless Noted Otherwise.
 3. All Exterior Soffit Walls and Arches shall be Wall Assembly Type Unless Noted Otherwise.
 4. All Dimensions are to Face of Stud (FOS) or Center Line, Unless Noted Otherwise.
 5. All Elevation Dimensions are Above Finish Floor at Each Floor Level, Unless Noted Otherwise.
 6. Dimensions Noted as "+/-" are Nominal.
 7. Floor Drains (FD) and Floor Sinks (FS) Shall be Set -3/4" and a Min. of 3'-0" From Nearest wall, 1:48 Max Slope in Any Direction, Unless Noted Otherwise.
 8. IDENTIFYING DEVICES, For Room Signage Refer to and Specifications
 9. Integral Cove Base to be PAINT, Specialty Paint.

F18	Floor Plan Legend
No Scale	



Mission Oak HS Aquatic Complex
Tulare Joint Union High School District
Tulare, CA 93274

BUILDING P
ENLARGED FLOOR PLANS

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No.	Revision/Submission	Date
1	REVISION_01	05/31/2023

Revision

Designed By: MF Copyright 2022 Darden Architects

Scale: As indicated Drawn By: KT

Project Number: 2180 Checked By: -

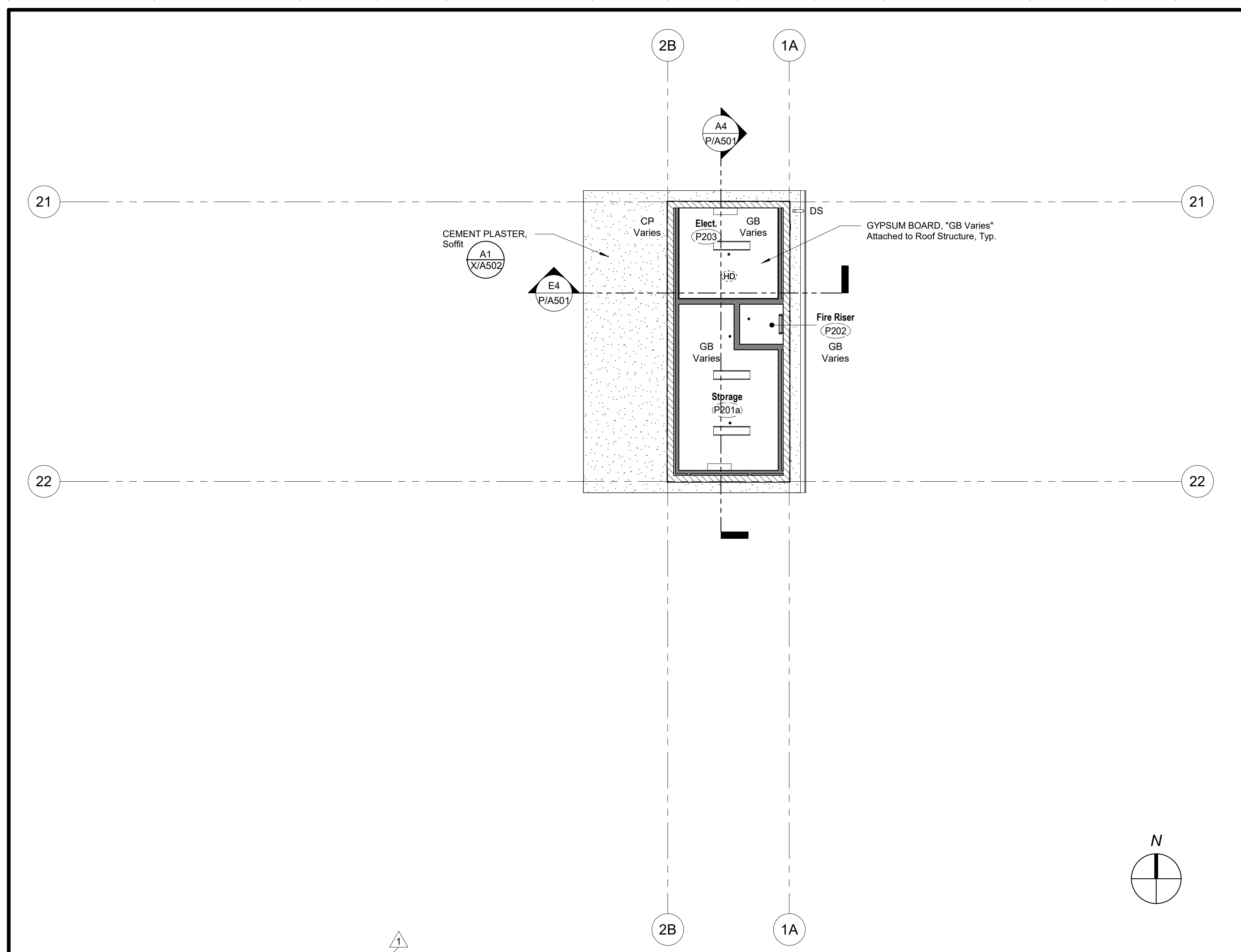
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A11	ENLARGED FLOOR PLAN
1/4" = 1'-0"	Refer to F18-P/A103 for Symbols, Abbreviations, and Notes

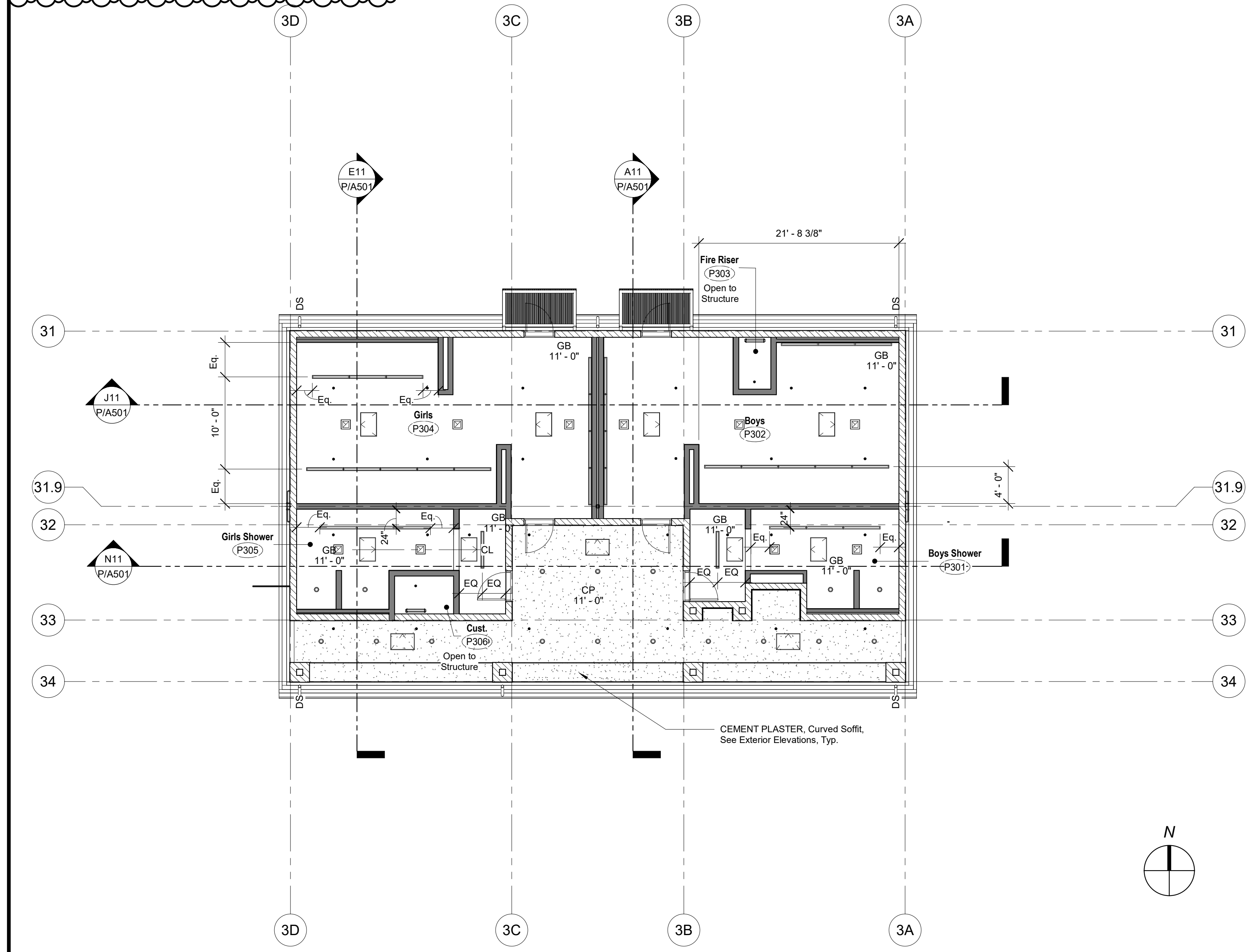
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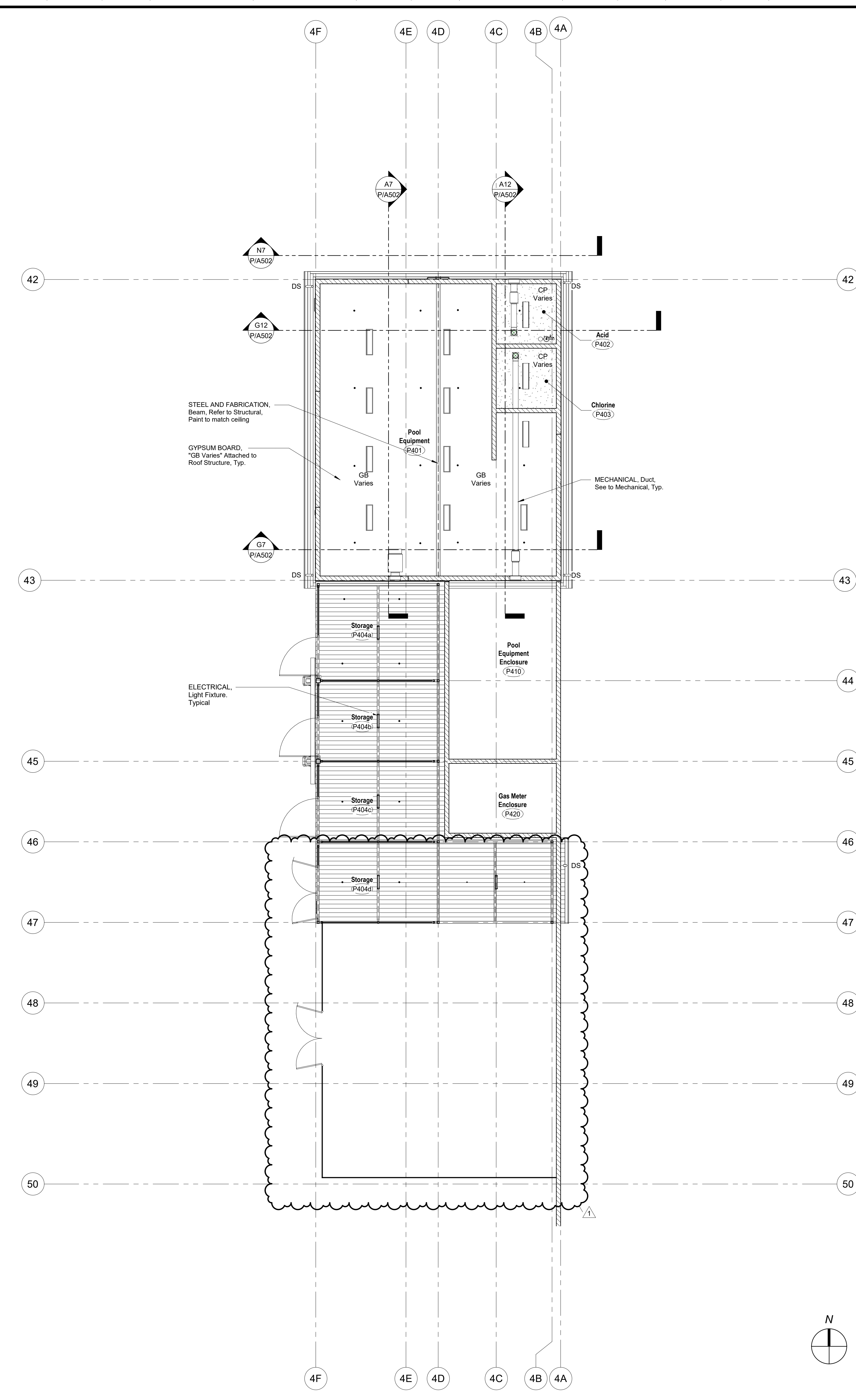
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BY THE STATE ARCHITECT
APP: 02-120251, INC.
REVISED FOR
SHEET P/A201 ACS/BJ
DATE 08/28/2023



J1 Reflected Ceiling Plan - Building P2
1/8" = 1'-0"



A1 Reflected Ceiling Plan - Building P3
1/8" = 1'-0"



A9 Reflected Ceiling Plan - Building P4
1/8" = 1'-0"

DSA File No.: 54-H11
DSA Application No.: 02-120251
Agency Approval

- SYMBOLS**
- ACOUSTICAL CEILINGS, Suspended Ceiling Compression Strut/ Splay Wire location
 - PLUMBING, Overflow Drain
 - FIRE PROTECTION, Fire Sprinkler Head
 - MECHANICAL, Air Supply Grill
 - MECHANICAL, Air Return Grill
 - MECHANICAL, Strip Grill
 - MECHANICAL, Exhaust Fan
 -
 - ELECTRICAL, Fire Alarm Device, Heat Detector
 - ELECTRICAL, Fire Alarm Device, Smoke Detector
 - ELECTRICAL, Fire Alarm Audio Visual Speaker
 - ELECTRICAL, Public Address System Speaker
 - ELECTRICAL, Wireless Access Point
 -
 -
 -
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 -

- ABBREVIATIONS**
- DS STEEL AND FABRICATIONS, Rain Water Downspout.
 - CL Ceiling
 - CP CEMENT PLASTER, System
 - GB GYPSUM BOARD
 - GLB GLUE-LAMINATED CONSTRUCTION, Beam
 - HT Height
 - MD METAL DECK
 - Typ Typical
 - SIM Similar
 - OH Opposite hand
 - DS Downspout
 - OD Overflow Drain
 - UNO Unless Noted Otherwise

- NOTES**
1. See Structural for Framing of Soffits and Ceilings
 2. Single Lights or Single Rows of Lights at Soffits/ Ceilings Shall be Centered, UNO.
 3. Refer to Interior Color Schedule for color.
 4. Ceiling Color to Match to Adjacent Surface, Unless Otherwise Noted. Refer to Interior Elevation and Interior Design Plan for Color Location.

Mission Oak HS Aquatic Complex
Tulare Joint Union High School District
Tulare, CA 93274 Project

BUILDING P
REFLECTED CEILING PLANS
Drawing

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4-30-23
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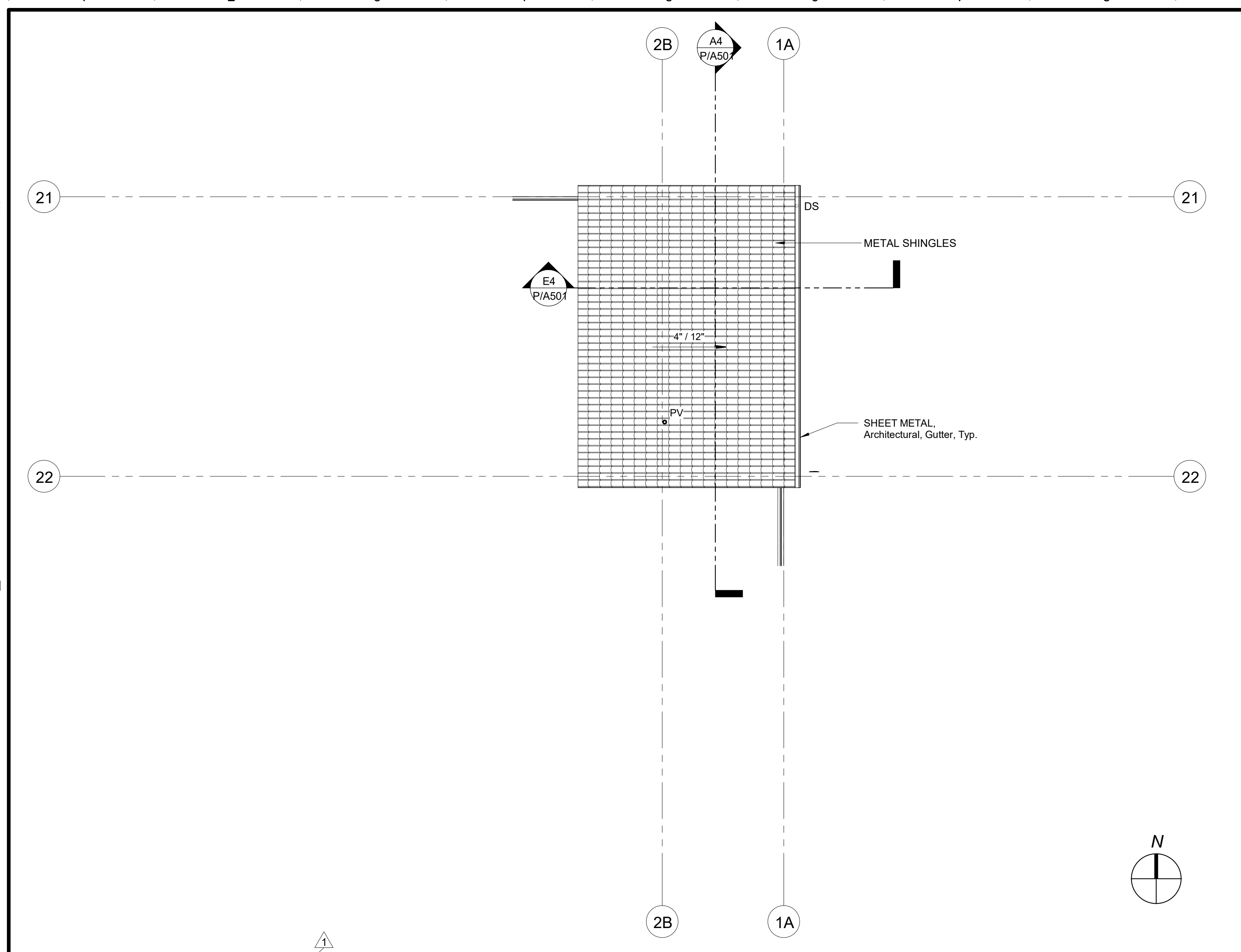
No.	Revision/Submission	Date
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Revision		
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Scale:	1/8" = 1'-0"	Drawn By: KT
Project Number:	2180	Checked By: -
Date:	03/28/2023	Reviewed By: MF

P/A201

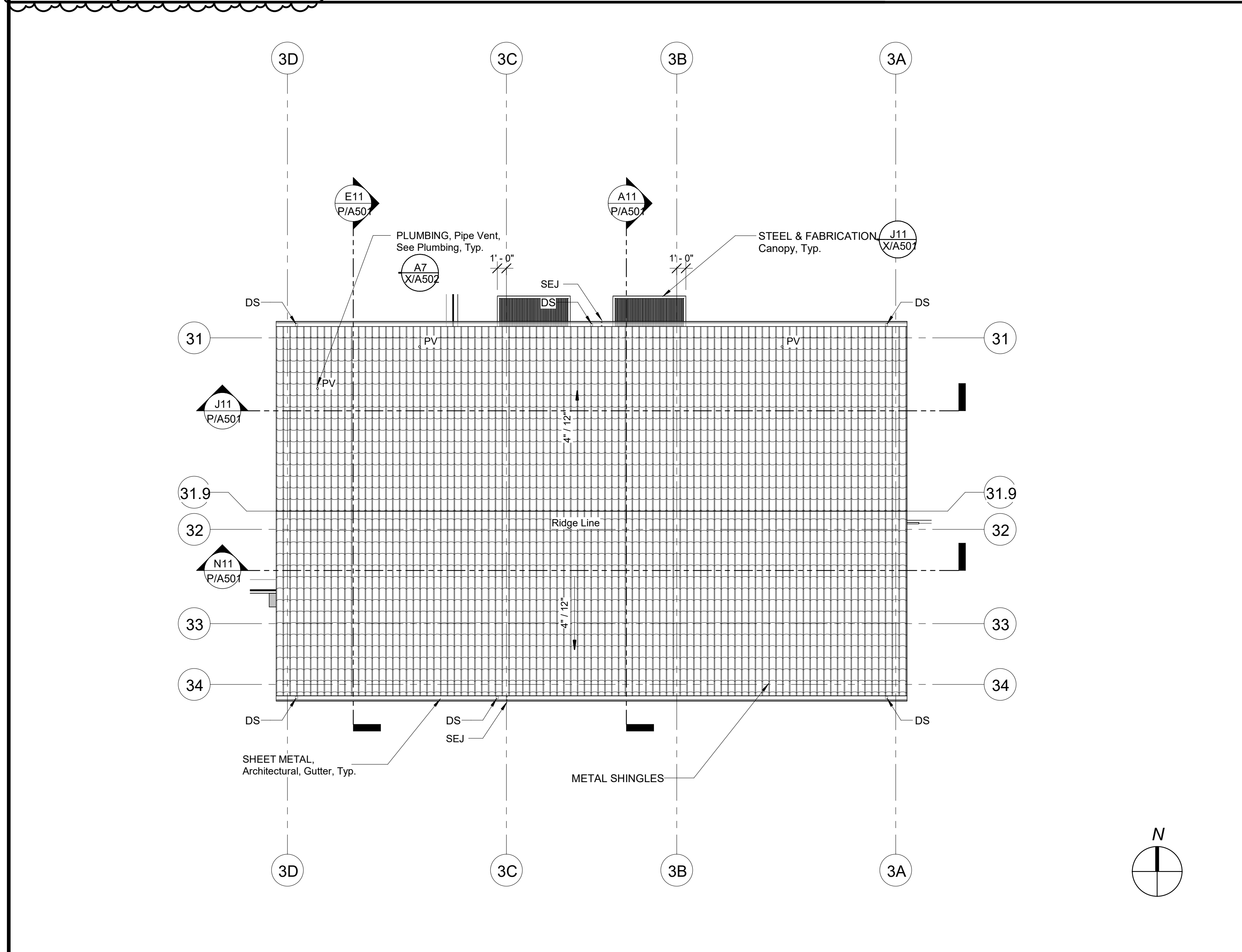
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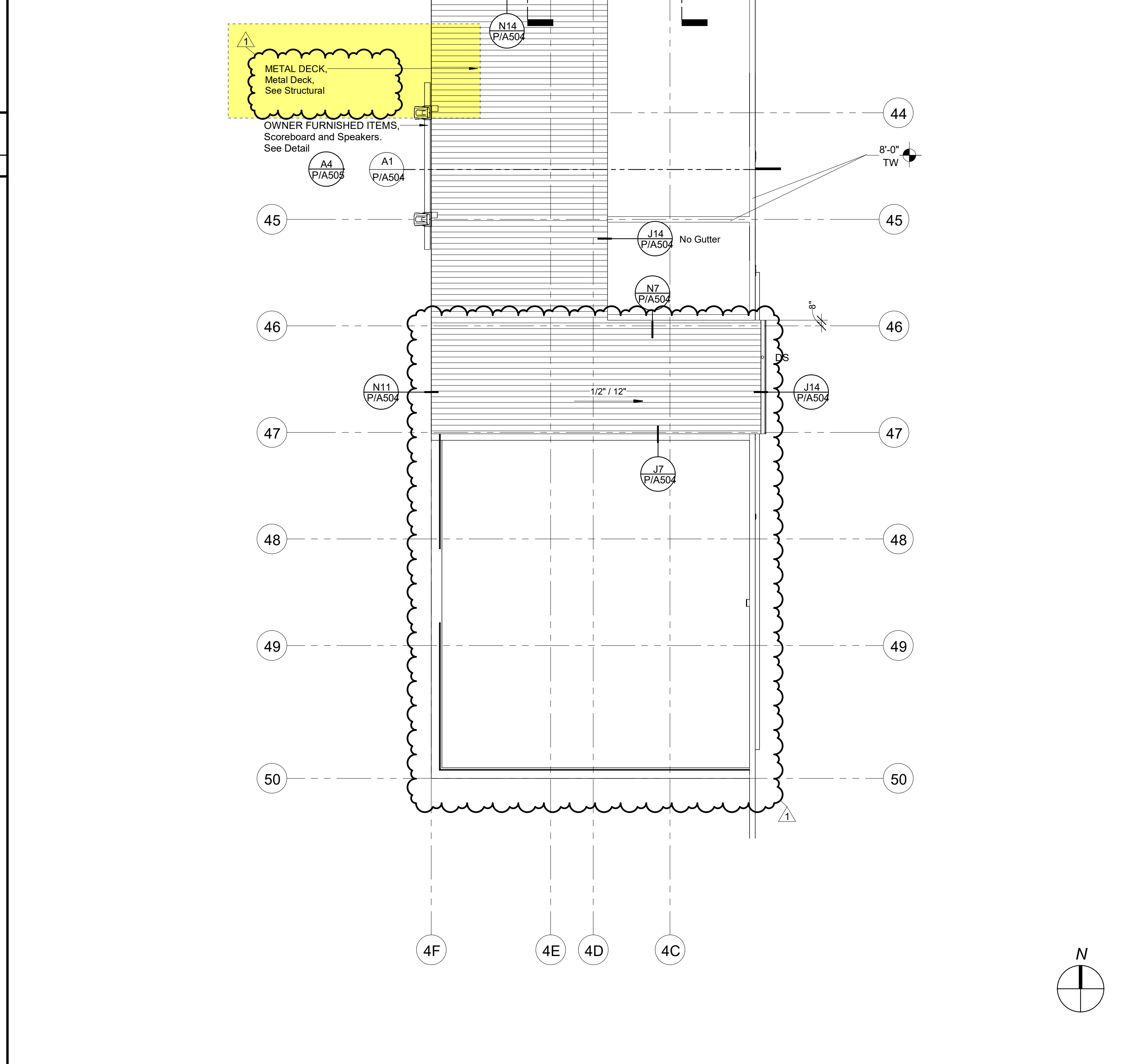
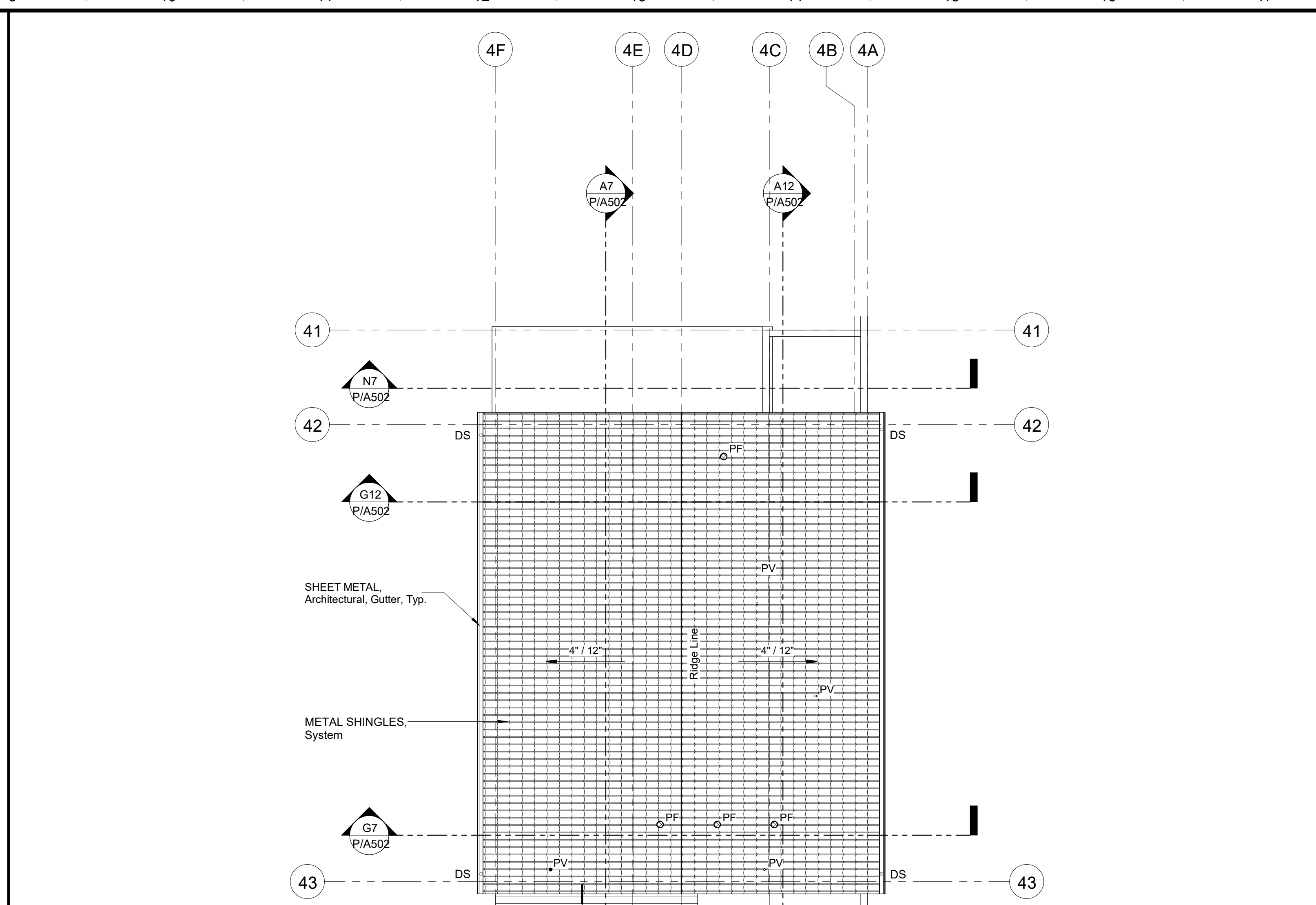
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BY THE STATE ARCHITECT
APP: 02-120251, INC.
REVIEWED FOR
SS ID: P/A301 ACS ID
DATE: 08/28/2023



J1 Roof Plan - Building P2
1/8" = 1'-0"



A1 Roof Plan - Building P3
1/8" = 1'-0"



A13 Roof Plan - Building P4
1/8" = 1'-0"

DSA File No.: 54-H11

DSA Application No.: 02-120251

Agency Approval

SYMBOLS

- PLUMBING, Vent with METAL SHINGLES Roofing Jack, Powder Coated finish to match the color of Metal Shingle Room System. Coordinate the location and sizes between the trades.
- PLUMBING, Flue with METAL SHINGLES Roofing Jack, Powder Coated finish to match the color of Metal Shingle Room System. Coordinate the location and sizes between the trades.
- Elevation above finish floor
- Direction of slope
- Line of Wall below
- Reference Point

ABBREVIATIONS

- DS STEEL AND FABRICATIONS, Rain Water Downspout
- SEJ SHEET METAL, Architectural Gutters, Expansion Joint
- FO Frmg. Face of Framing
- OD PLUMBING, Overflow Drain
- TOF Top of Framing
- RD PLUMBING, Roof Drain
- TOM Top of Masonry
- OH Opposite Hand
- FOS Face of Stud
- TOS Top of Steel
- Sim. Similar
- Typ. Typical

NOTES

- Refer to Plumbing, Mechanical, and Electrical for all roof penetrations and roof mounted equipment. Coordinate the type of roof penetration with the METAL SHINGLES trade contractor and manufacturer for the flashing and installation of the penetration. Provide shop drawings for locations and shop drawings.

K18 Roof Plan Legend
No Scale

Mission Oak HS Aquatic Complex
Tulare Joint Union High School District
Tulare, CA 93274 Project

BUILDING P
ROOF PLANS
Drawing

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ARCHITECT

No.	Revision/Submission	Date
1	REVISION_01	05/31/2023

Revision

Designed By: MF Copyright 2022 Darden Architects

Scale: 1/8" = 1'-0" Drawn By: KT

Project Number: 2180 Checked By: -

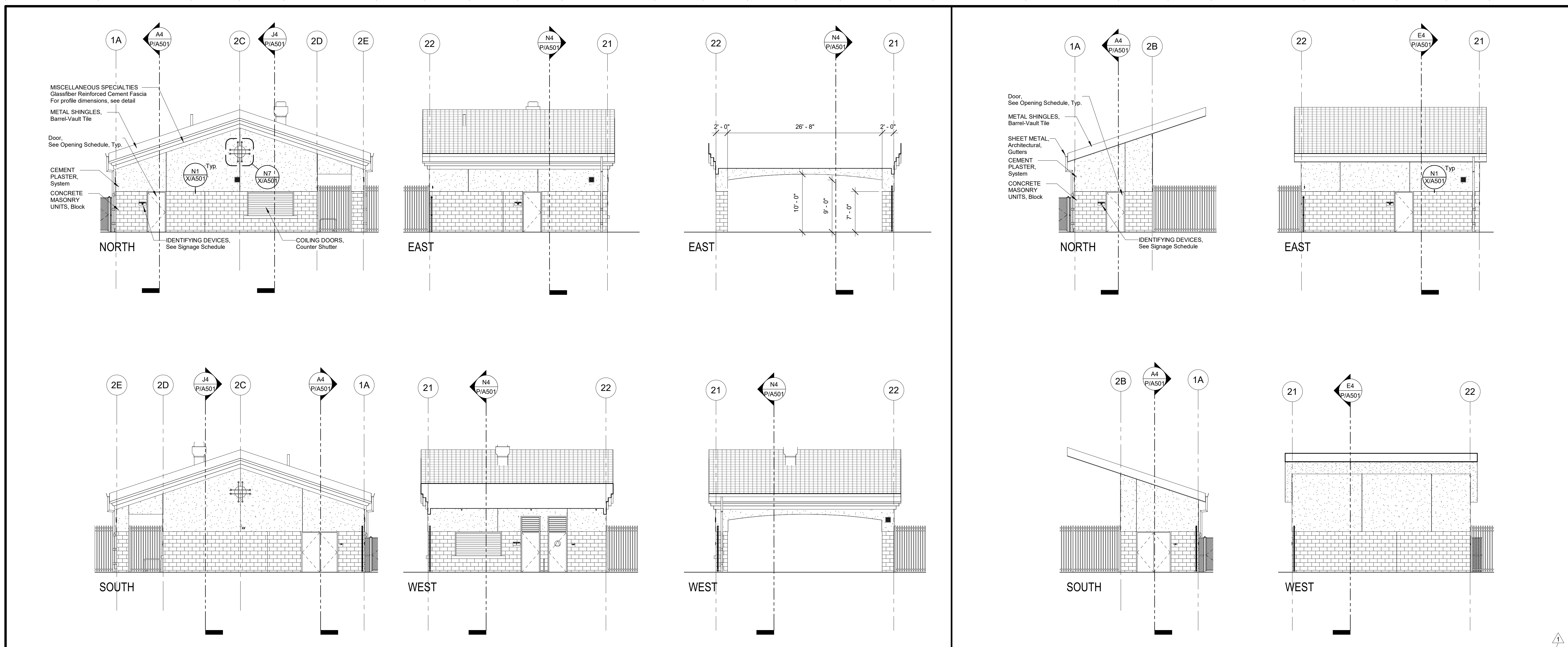
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P/A301

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CONSTRUCTION SET

APPROVED
BY THE STATE ARCHITECT
APP: 02-120251, INC.
REVIEWED FOR
SS ID: P/A501 ACS ID
DATE: 08/28/2023



DSA File No.: 54-H11

DSA Application No.: 02-120251

Agency Approval

EXTERIOR COLOR LEGEND

Plaster Colors

PC-1 White Unless Noted Otherwise

Block Colors

BC-1 Natural Unless Noted Otherwise

All Ground Block to be BC-1, UNO.

Plaster walls perpendicular to elevation, not shown elsewhere, shall be the same color as face plane, Unless Noted Otherwise.

Metal Colors

MC-1 White Unless Noted Otherwise

Door Colors

All Doors to match adjacent Frame & Wall, UNO.

All Hollow Metal Frames to be match adjacent wall.

All Steel and Fabrications to match adjacent wall, UNO.

All METAL DECKING to be MC-1, UNO.

Tile Colors

CT-4

Color 1 - White Unless Noted Otherwise

Color 2 - Grey

Color 3 - Gold

Color 4 - Orange Red

Color Notes

- Color Designation.
- Parapet caps to match color of wall below, UNO.
- Soffits to match color of outer face wall, UNO.
- Horizontal soffits adjacent to fascia board shall be PC-1.

Outer Face Wall

Soffit

Inner Face Wall

Fascia Board

PC-1

SYMBOLS

H ELECTRICAL, Horn

S ELECTRICAL, Speaker

O ELECTRICAL, Outlet

L ELECTRICAL, Light Fixture, +10'-0" B.O. Fixture UNO

Glass

ELECTRICAL, PA Speaker

ABBREVIATIONS

AFF Above Finished Floor

BO Bottom of

CJ Control Joint

DS Downspout

EJ Expansion Joint

HB PLUMBING, Hose Bibb.

OH Opposite Hand

Sim Similar

TO Top of

TOM Top of Masonry

TOP Top of Parapet Framing

TOF Top of Framing

TOR Top of Roof

TOS Top of Steel

TPL Top of Plate

Typ Typical

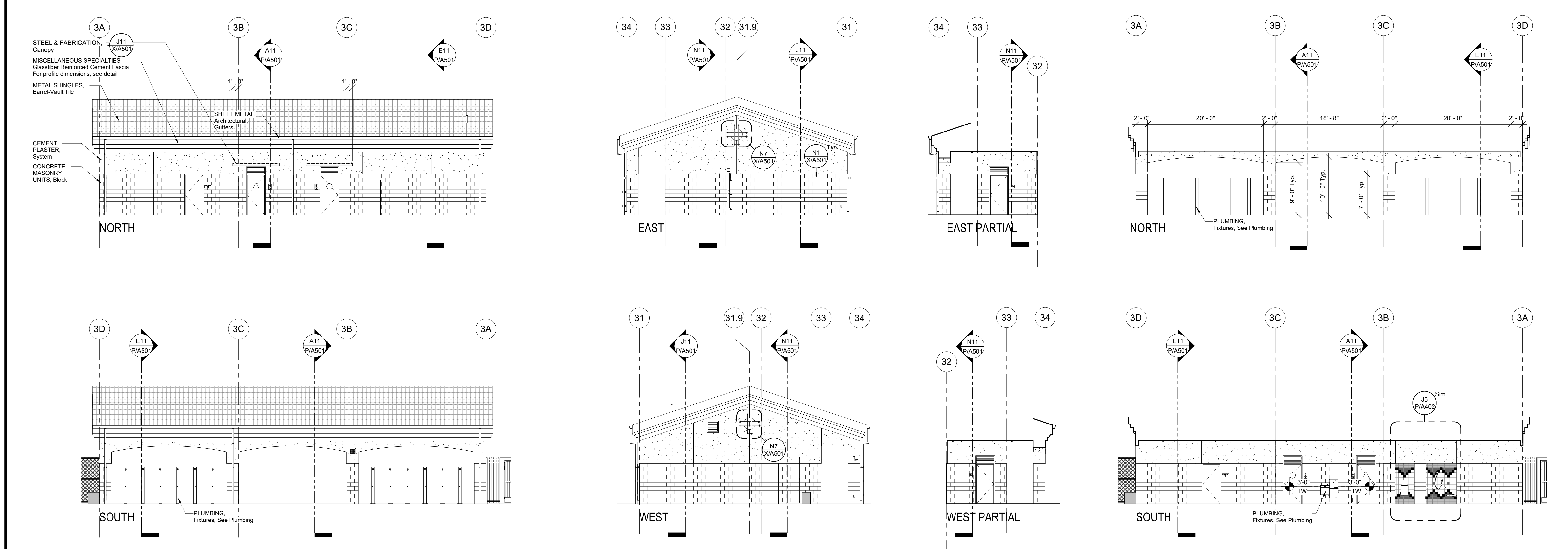
UNO Unless Noted Otherwise

NOTES

- CEMENT PLASTER, Cement Plaster System, Accessories, Refer to Detail A14 X/A501
- STEEL & FABRICATION, Downspout, Refer to Detail A1 X/A501
- Refer to Specifications Section Appendix "C" Exterior Color Schedule.
- Refer to Exterior Finish Schedule on A1 / X/A201
- Refer to Structural for Curved Soffit Framing

H1 ADD ALTERNATE Exterior Elevations - Building P2
1/8" = 1'-0"
Refer to E18 for Legend Symbols, Abbreviations and Notes

H1 Exterior Elevations - Building P2
1/8" = 1'-0"
Refer to E18 for Legend Symbols, Abbreviations and Notes



E18 Exterior Elevations Legend
No Scale

Mission Oak HS Aquatic Complex
Tulare Joint Union High School District
Tulare, CA 93274

BUILDING P1, P2, P3
EXTERIOR ELEVATIONS - P2 & P3

Drawing

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ARCHITECT

No.	Revision/Submission	Date
1	REVISION_01	05/31/2023

Revision

Designed By: MF Copyright 2022 Darden Architects

Scale: As indicated Drawn By: FM

Project Number: 2180 Checked By: -

Date: 03/28/2023 Reviewed By: MF

A1 Exterior Elevations - Building P3
1/8" = 1'-0"
Refer to E18 for Legend Symbols, Abbreviations and Notes

A1 Exterior Elevations - Building P3
1/8" = 1'-0"
Refer to E18 for Legend Symbols, Abbreviations and Notes

P/A401

8/18/2023 4:27:09 PM e:\Users\alvin\Documents\180 Mission Oak HS Aquatic Complex_RD01_VZ2_A\Invtv.nt

CONSTRUCTION SET

APPROVED BY THE STATE ARCHITECT
 APP: 02-120251, INC.
 REVIEWED FOR
 SS ID: PLS ID: ACS ID
 DATE: 08/28/2023

DSA File No.:
54-H11

DSA Application No.:
02-120251

Agency Approval

EXTERIOR COLOR LEGEND

Plaster Colors
 PC-1 White Unless Noted Otherwise

Block Colors
 BC-1 Natural Unless Noted Otherwise
 All Ground Block to be BC-1, UNO.

Plaster walls perpendicular to elevation, not shown elsewhere, shall be the same color as face plane, Unless Noted Otherwise.

Metal Colors
 MC-1 White Unless Noted Otherwise

Door Colors
 All Doors to match adjacent Frame & Wall, UNO.

All Hollow Metal Frames to be match adjacent wall.
 All Steel and Fabrications to match adjacent wall, UNO.
 All METAL DECKING to be MC-1, UNO.

Tile Colors
 CT-4

Color 1 - White Unless Noted Otherwise
 Color 2 - Grey
 Color 3 - Gold
 Color 4 - Orange Red

Color Notes

- XX-X Color Designation.
- Parapet caps to match color of wall below, UNO.
- Soffits to match color of outer face wall, UNO.
- Horizontal soffits adjacent to fascia board shall be PC-1.

Fascia Board
 PC-1
 Outer Face Wall
 Soffit
 Inner Face Wall

SYMBOLS

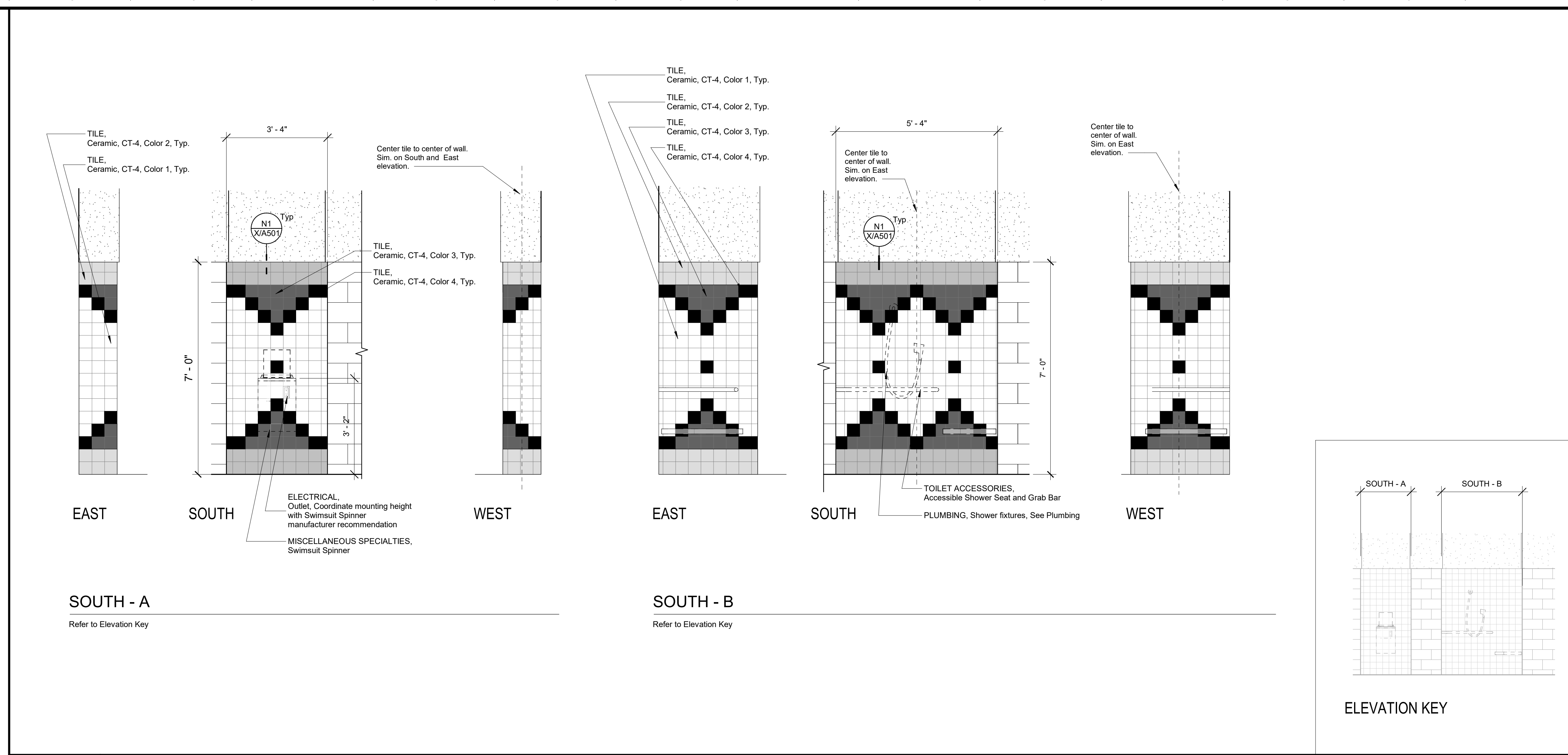
ELECTRICAL, Horn
 ELECTRICAL, Speaker
 ELECTRICAL, Outlet
 ELECTRICAL, Light Fixture, +10'-0" B.O. Fixture UNO
 Glass
 ELECTRICAL, PA Speaker

ABBREVIATIONS

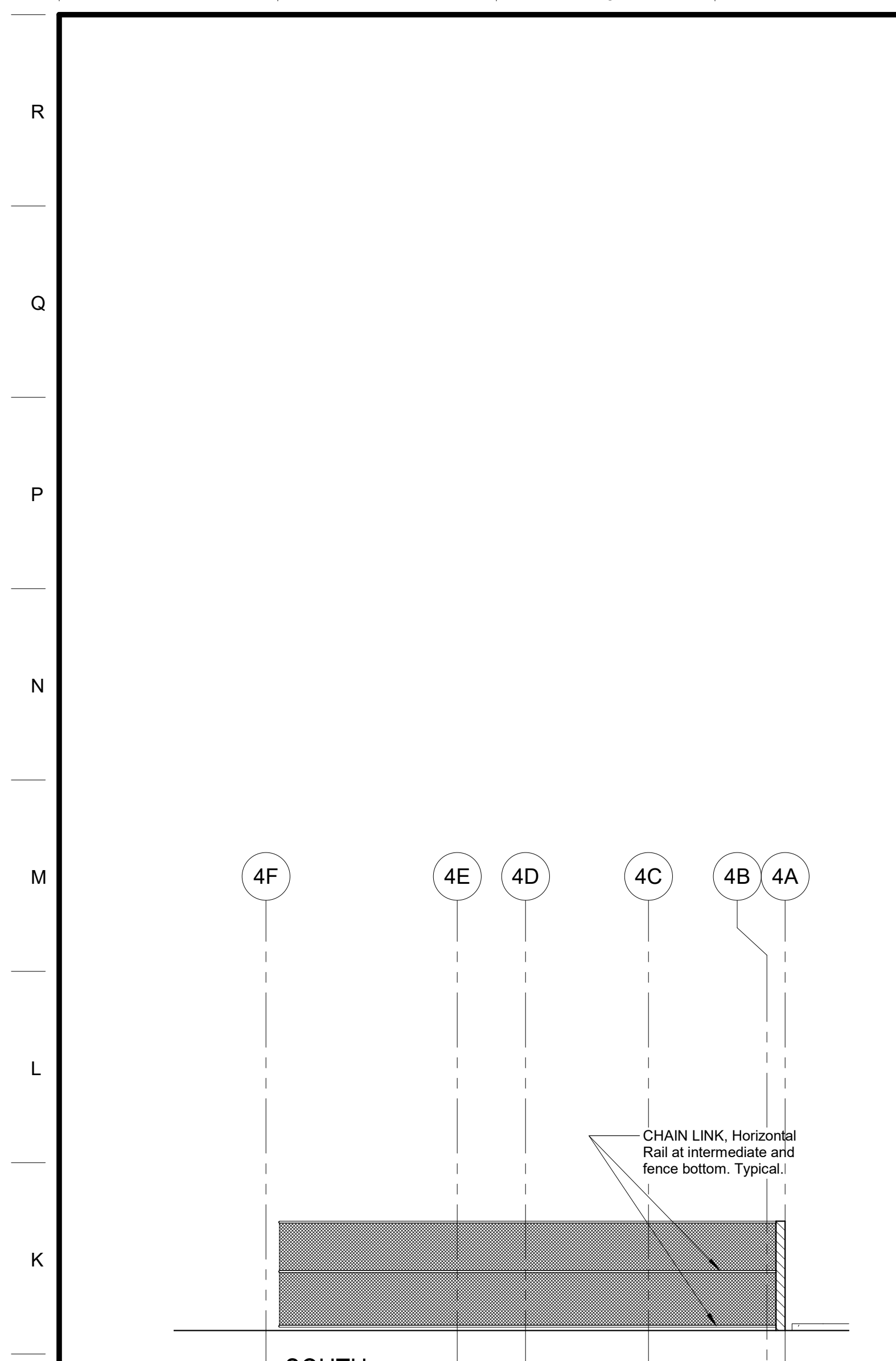
AFF Above Finished Floor
 BO Bottom of Control Joint
 CJ Downspout
 DS Expansion Joint
 EJ Expansion Joint
 HB PLUMBING, Hose Bibb.
 OH Opposite Hand
 Sim. Similar
 TO Top of Masonry
 TOM Top of Masonry
 TOP Top of Parapet Framing
 TOE Top of Framing
 TOR Top of Roof
 TOS Top of Steel
 TPL Top of Plate
 Typ. Typical
 UNO Unless Noted Otherwise

NOTES

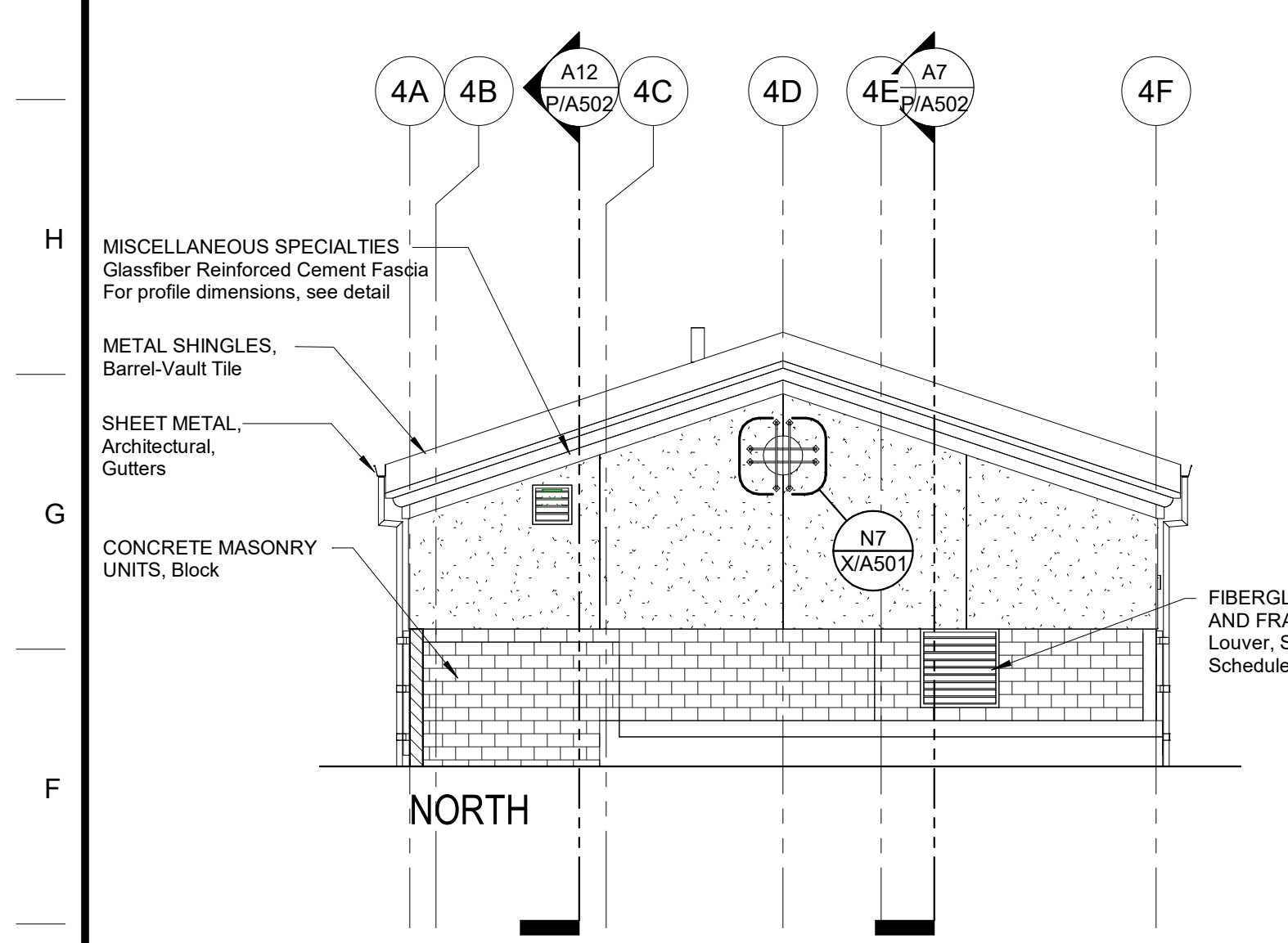
- CEMENT PLASTER, Cement Plaster System, Accessories, Refer to Detail A14/X/A507
- STEEL & FABRICATION, Downspout, Refer to A1/X/A507
 See Plumbing Drawings for Location.
- Refer to Specifications Section Appendix "C" Exterior Color Schedule.
- Refer to Exterior Finish Schedule on A1 / X/A201
- Refer to Structural for Curved Soffit Framing



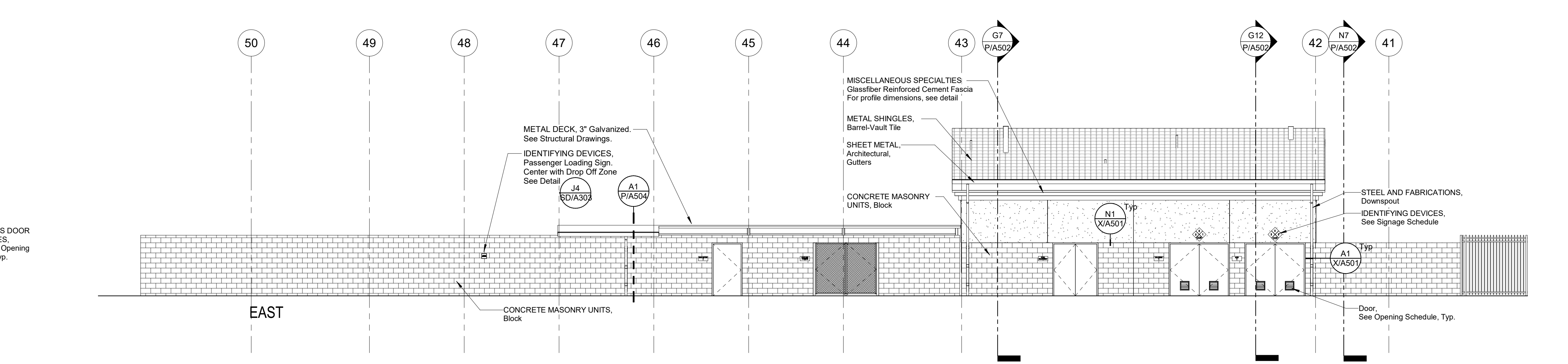
J5 Exterior Elevations - Building P3
 1/2" = 1'-0"
 Refer to F18 for Legend Symbols, Abbreviations and Notes



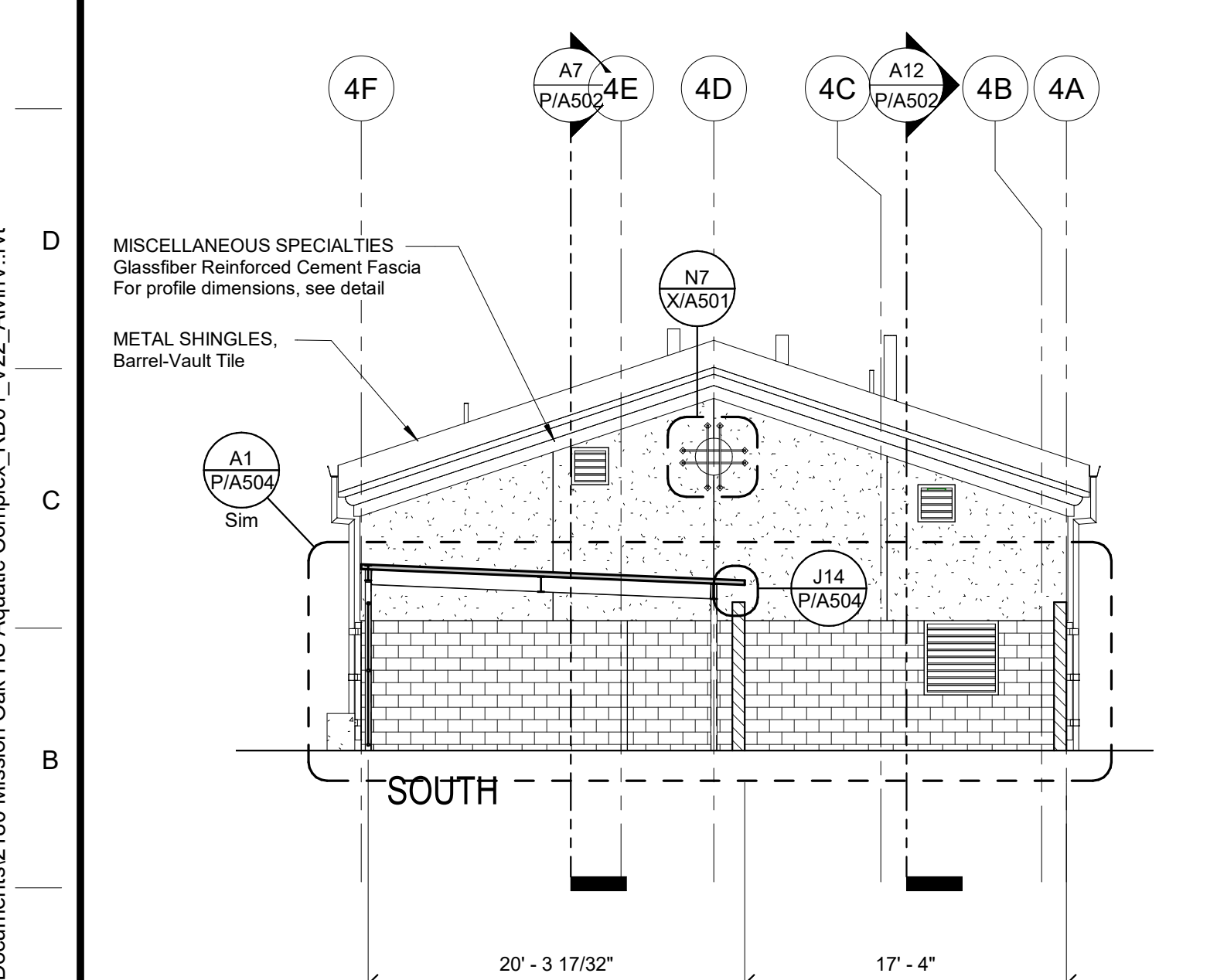
A1 Exterior Elevations
 1/8" = 1'-0"
 Refer to E18 for Legend Symbols, Abbreviations and Notes



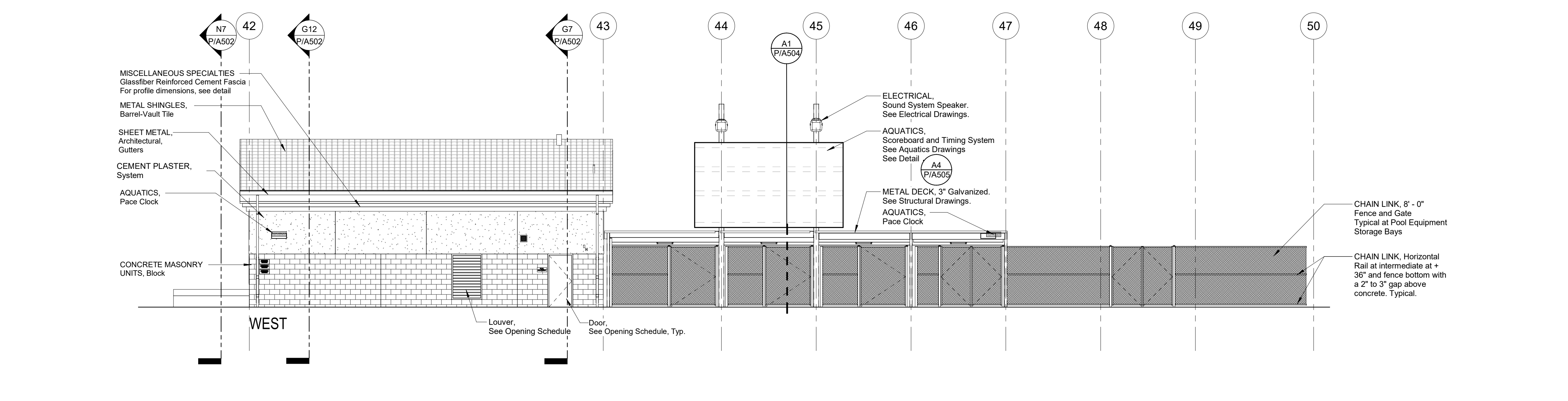
A1 Exterior Elevations
 1/8" = 1'-0"
 Refer to E18 for Legend Symbols, Abbreviations and Notes



A1 Exterior Elevations
 1/8" = 1'-0"
 Refer to E18 for Legend Symbols, Abbreviations and Notes



A1 Exterior Elevations
 1/8" = 1'-0"
 Refer to E18 for Legend Symbols, Abbreviations and Notes



A1 Exterior Elevations
 1/8" = 1'-0"
 Refer to E18 for Legend Symbols, Abbreviations and Notes

E18 Exterior Elevations Legend
 No Scale

Mission Oak HS Aquatic Complex
 Tulare Joint Union High School District
 Tulare, CA 93274 Project

BUILDING P3, P4
 EXTERIOR ELEVATIONS - P3 - P4 Drawing

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 Architect

No.	Revision/Submission	Date
1	REVISION_01	05/31/2023

Revision

Designed By: MF Copyright 2022 Darden Architects

Scale: As indicated Drawn By: FM
 Project Number: 2180 Checked By: -
 Date: 03/28/2023 Reviewed By: MF

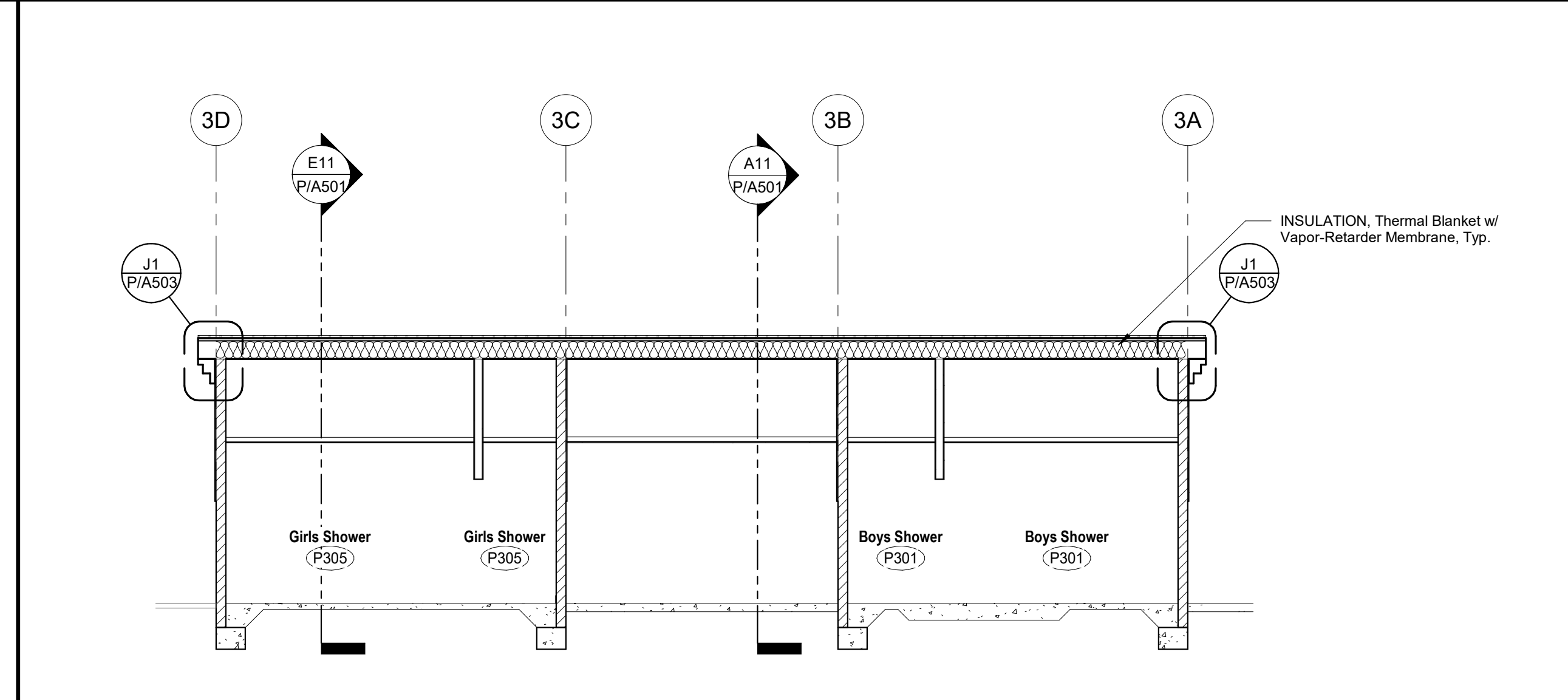
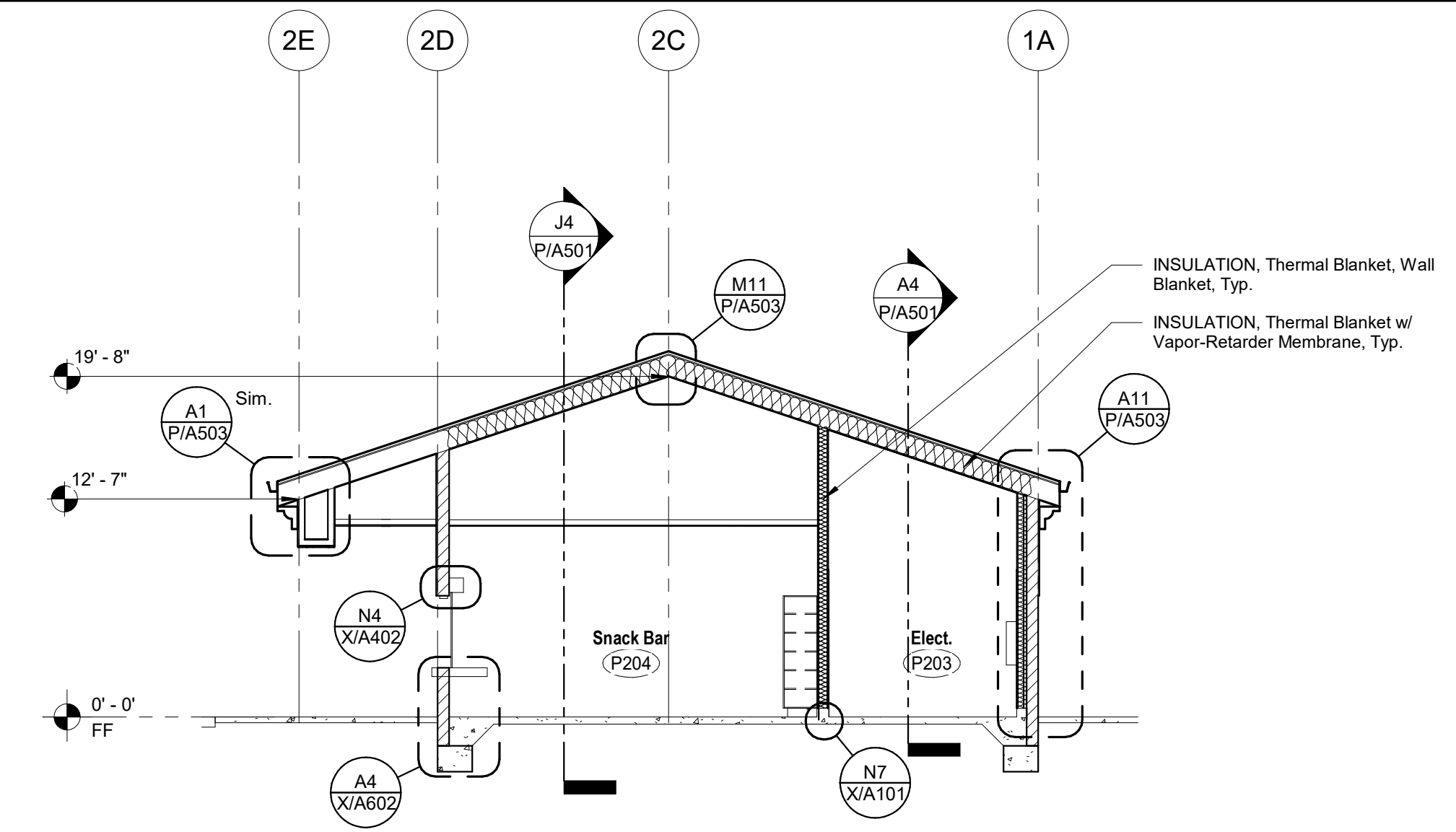
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CONSTRUCTION SET

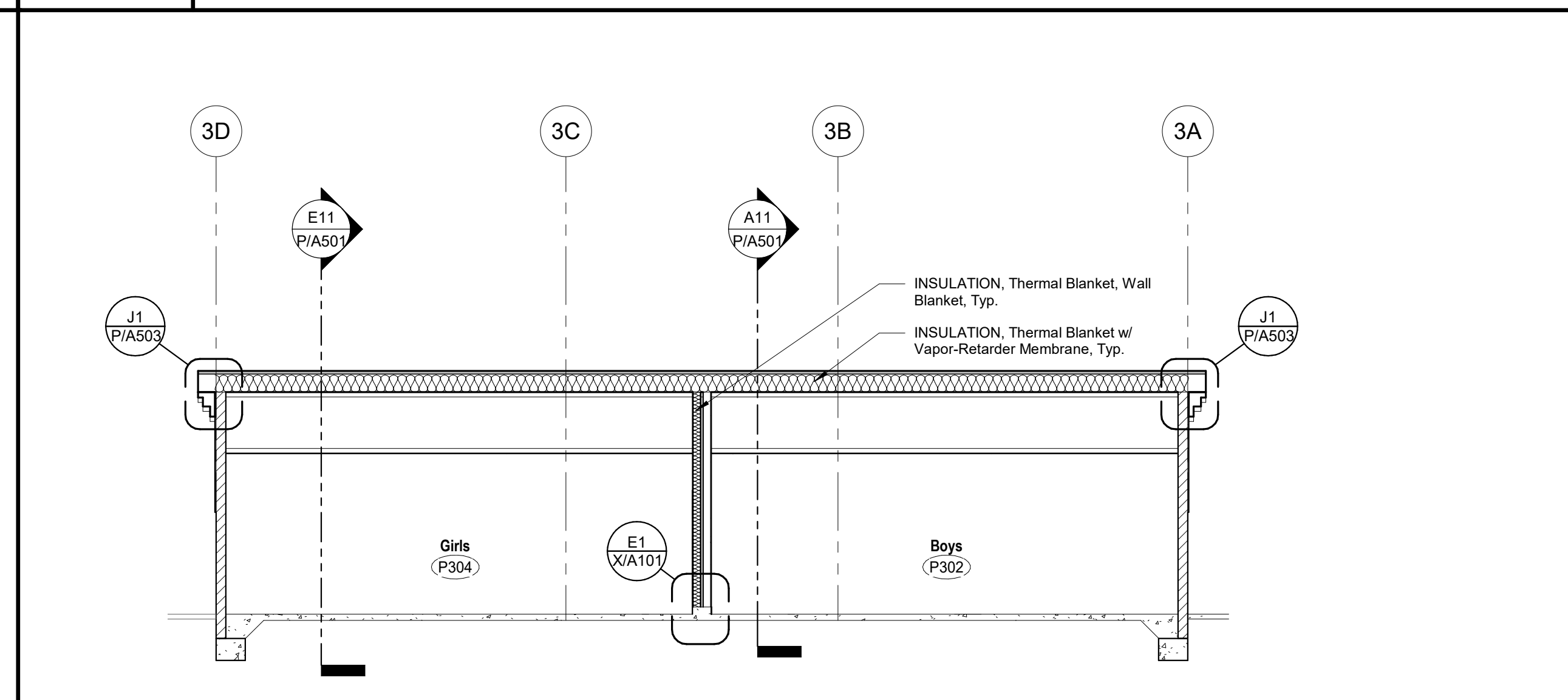
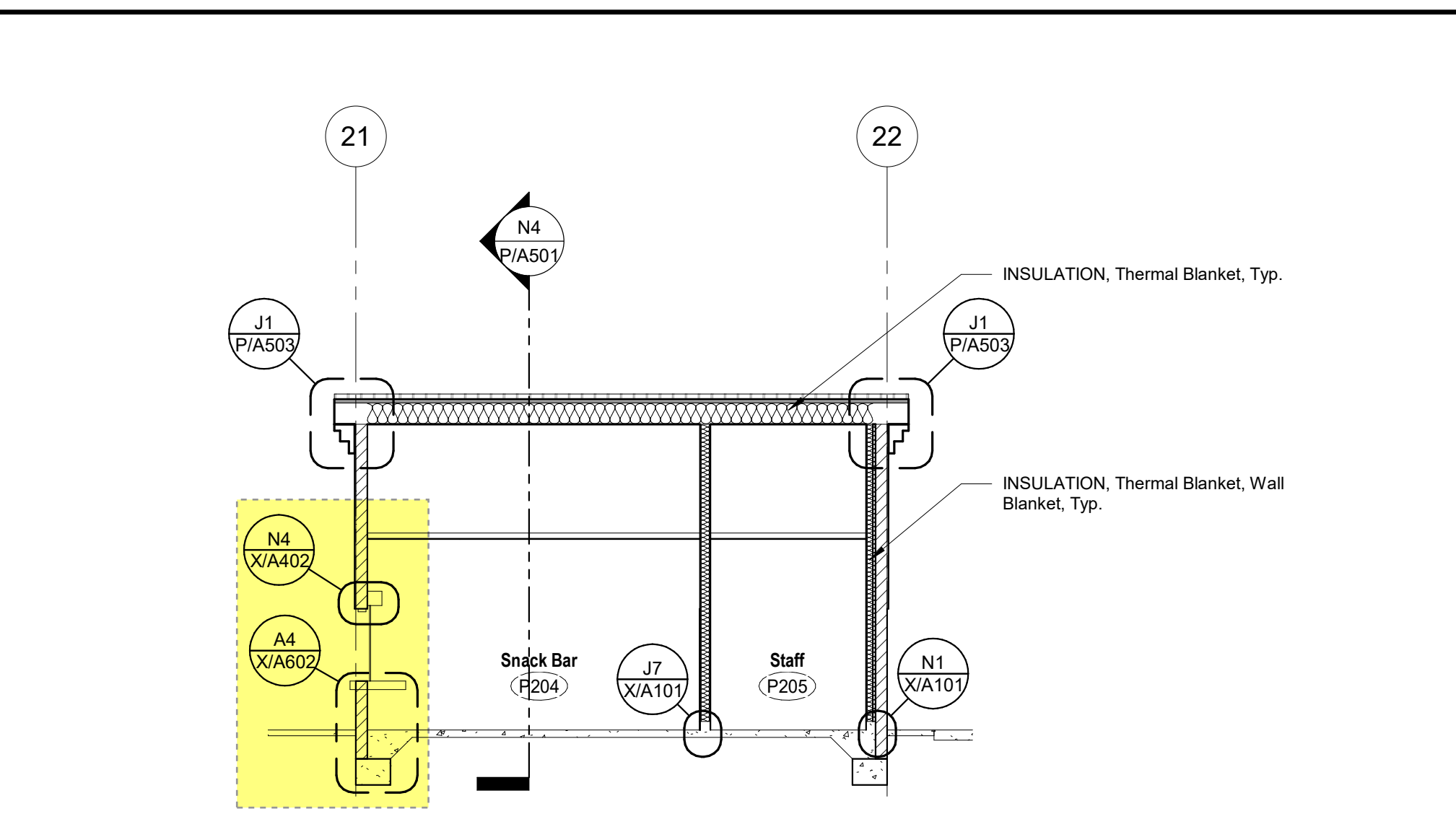
APPROVED
BY THE STATE ARCHITECT
APP: 02-120251, INC.
REVIEWED FOR
SS ID: P/A501 ACS ID
DATE: 08/28/2023

DSA File No.: 54-H11
DSA Application No.: 02-120251
Agency Approval



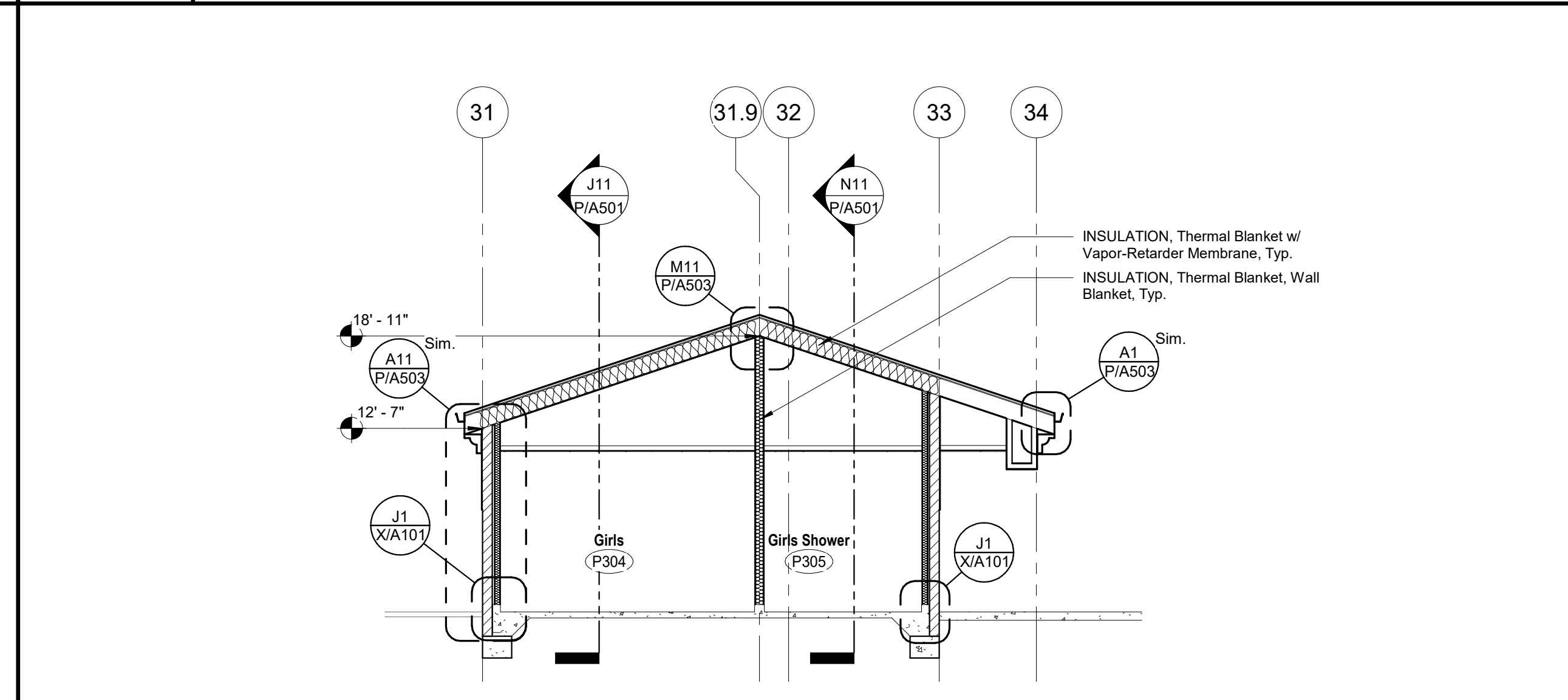
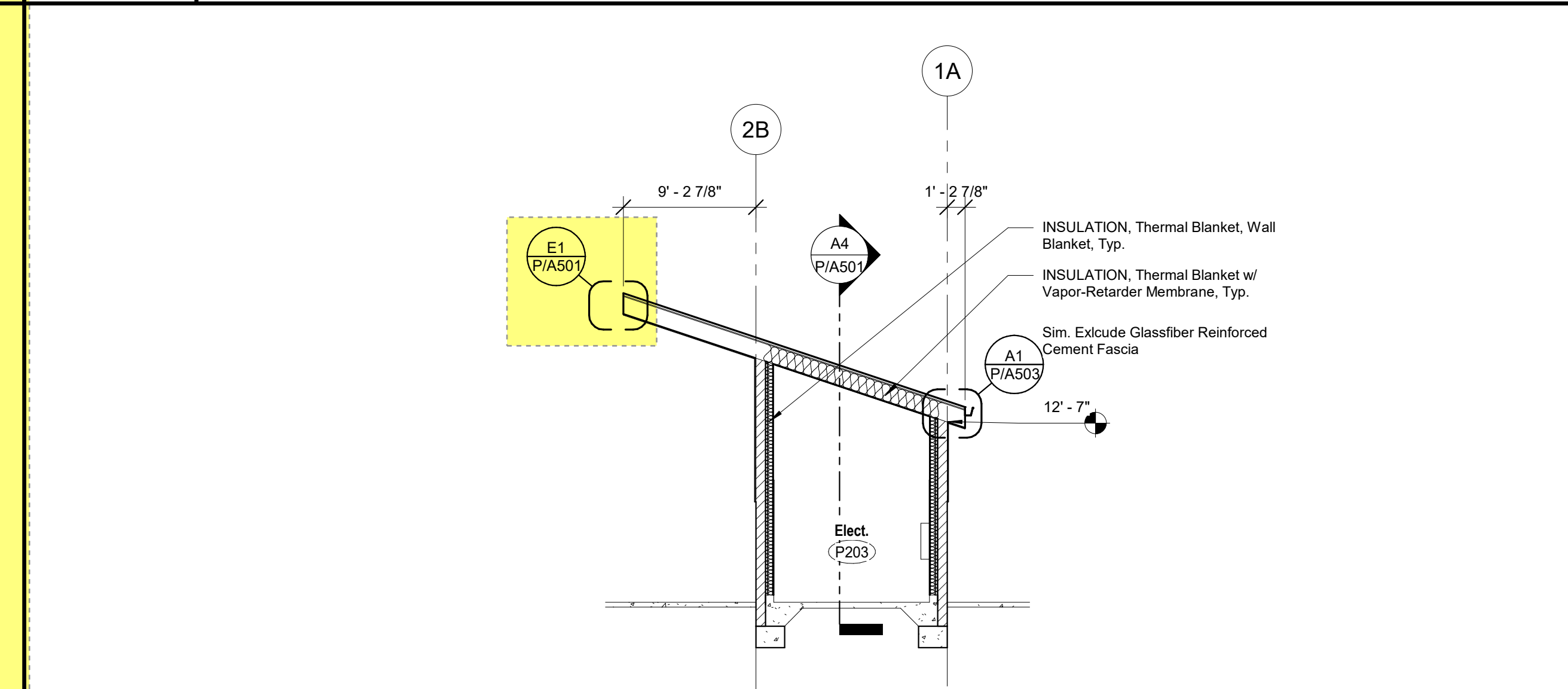
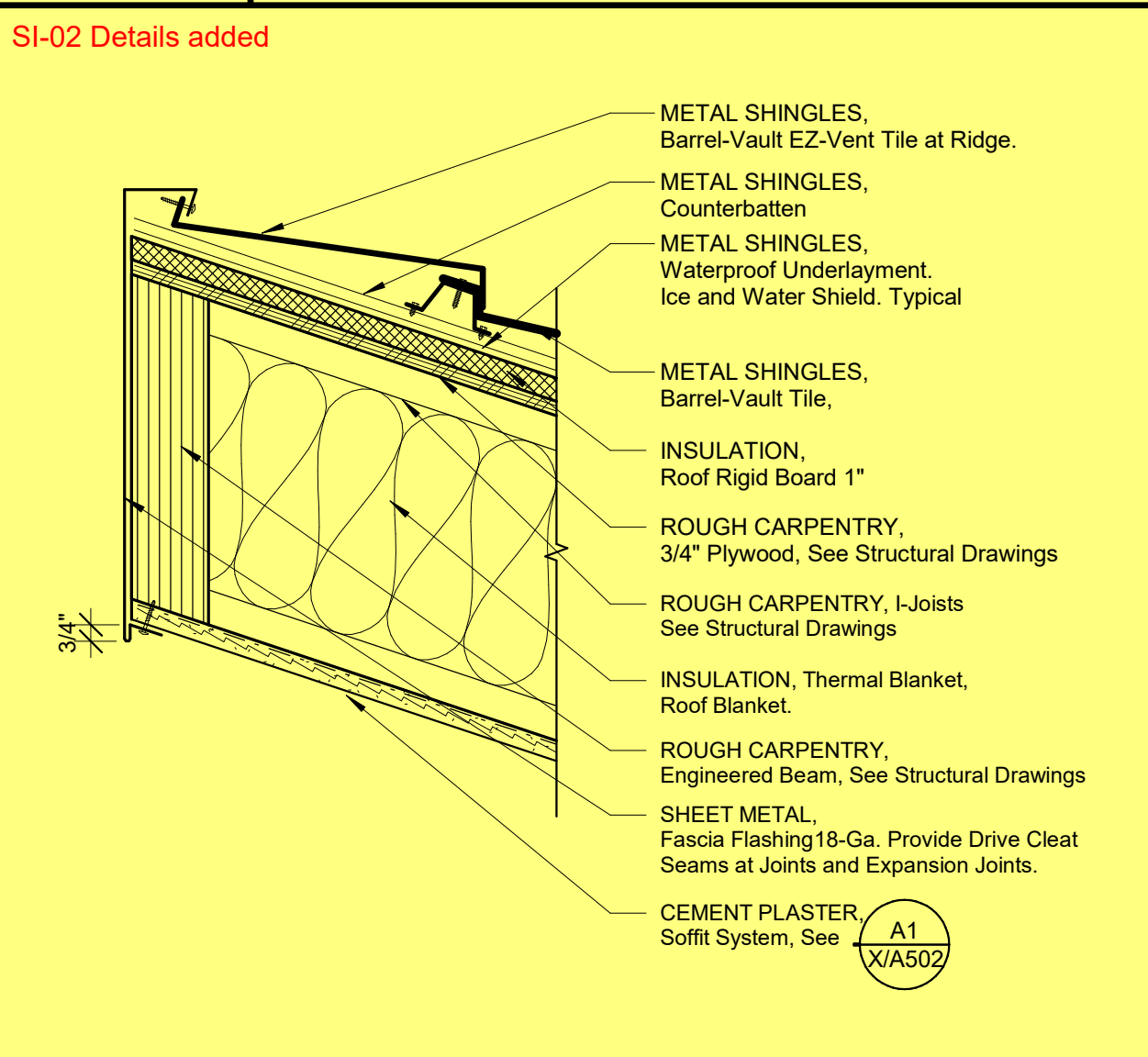
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1/8" = 1'-0"

N11 Building Section - P3
1/8" = 1'-0"



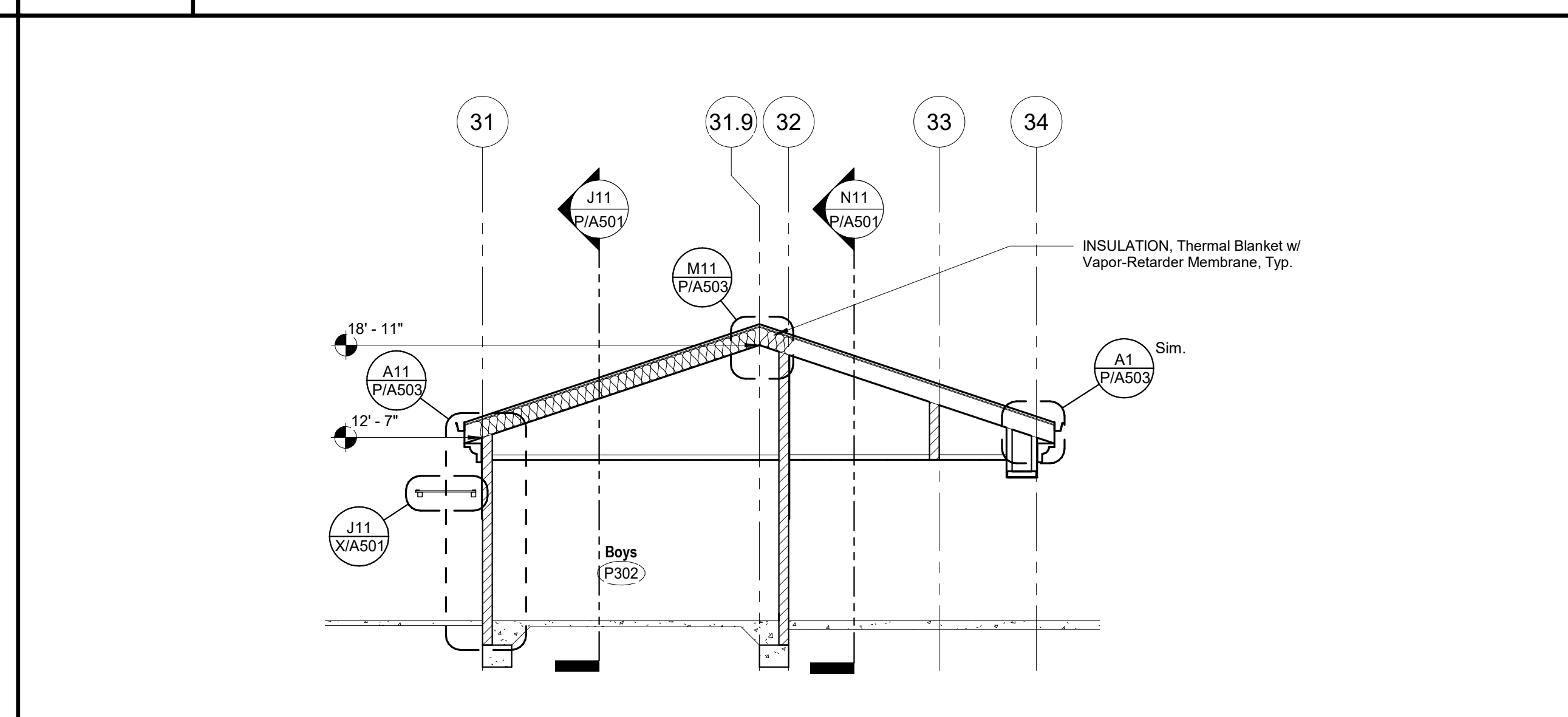
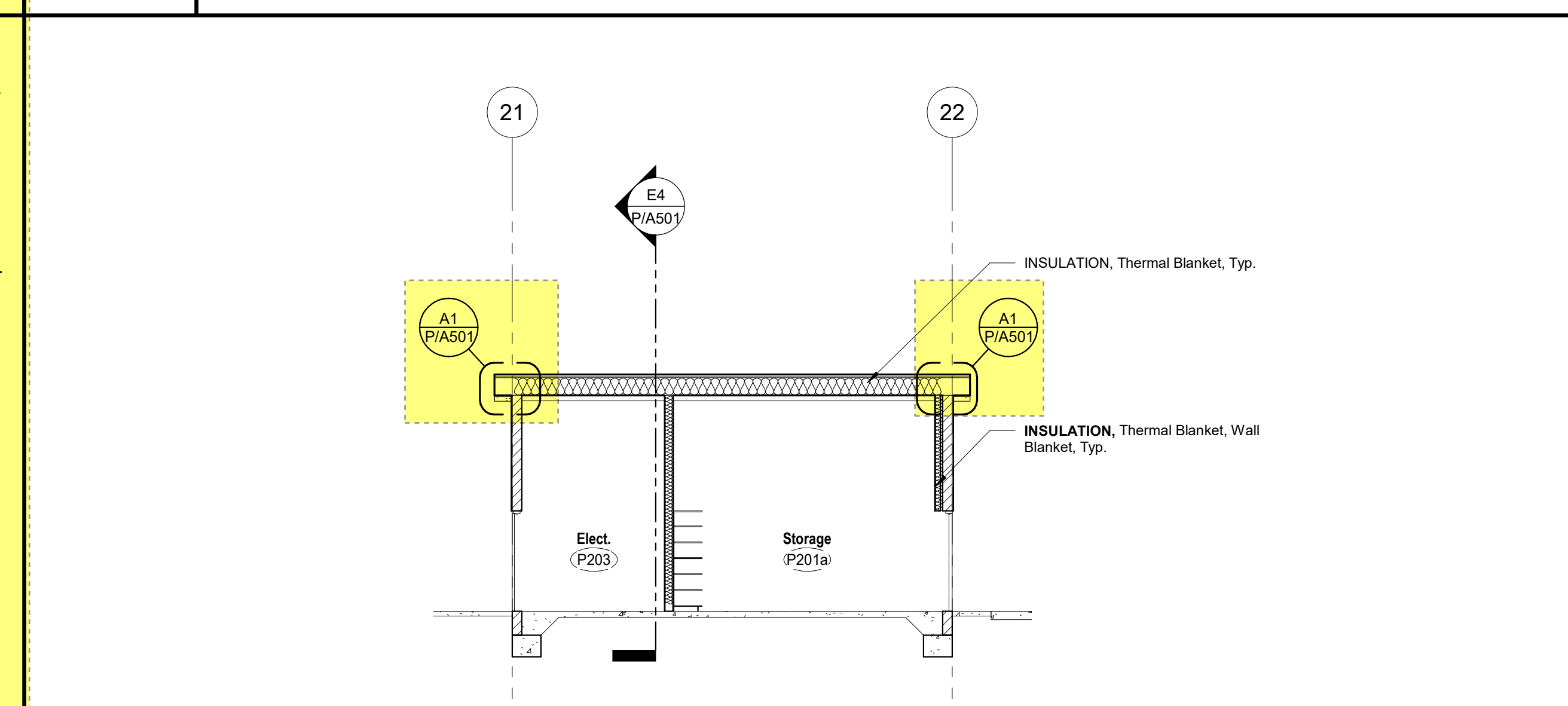
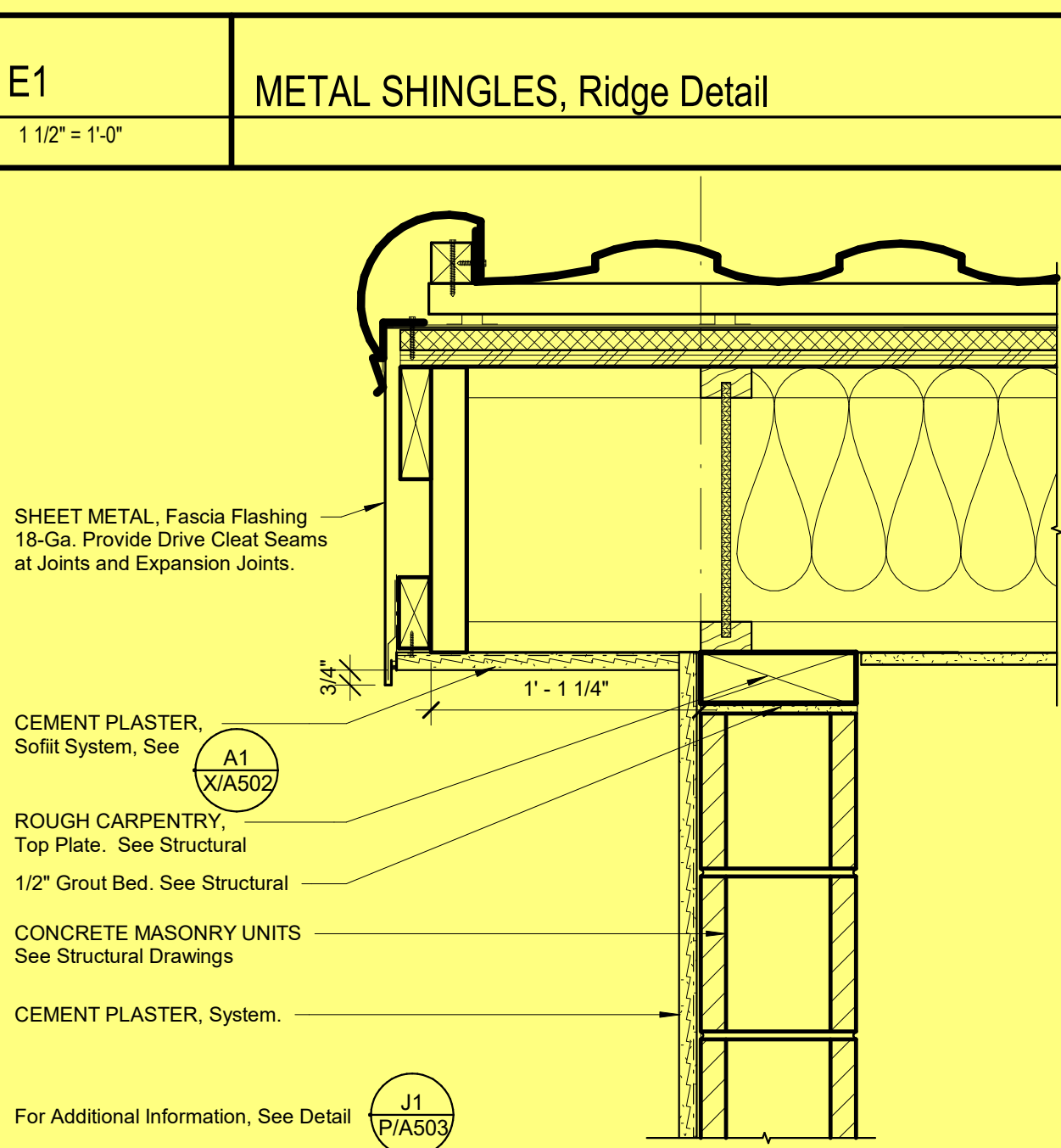
J4 ADD ALTERNATE Building Section - P2
1/8" = 1'-0"

J11 Building Section - P3
1/8" = 1'-0"



E4 Building Section - P2
1/8" = 1'-0"

E11 Building Section - P3
1/8" = 1'-0"



A4 Building Section - P2
1/8" = 1'-0"

A11 Building Section - P3
1/8" = 1'-0"

A1 METAL SHINGLES Rake Detail
1/12" = 1'-0"

Mission Oak HS Aquatic Complex
Tulare Joint Union High School District
Tulare, CA 93274
BUILDING P2, P3
BUILDING SECTIONS - P2 & P3
Drawing

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LICENSED ARCHITECT
ARCHITECT C. FERRER
No. C23724
Exp. 4-30-25
STATE OF CALIFORNIA

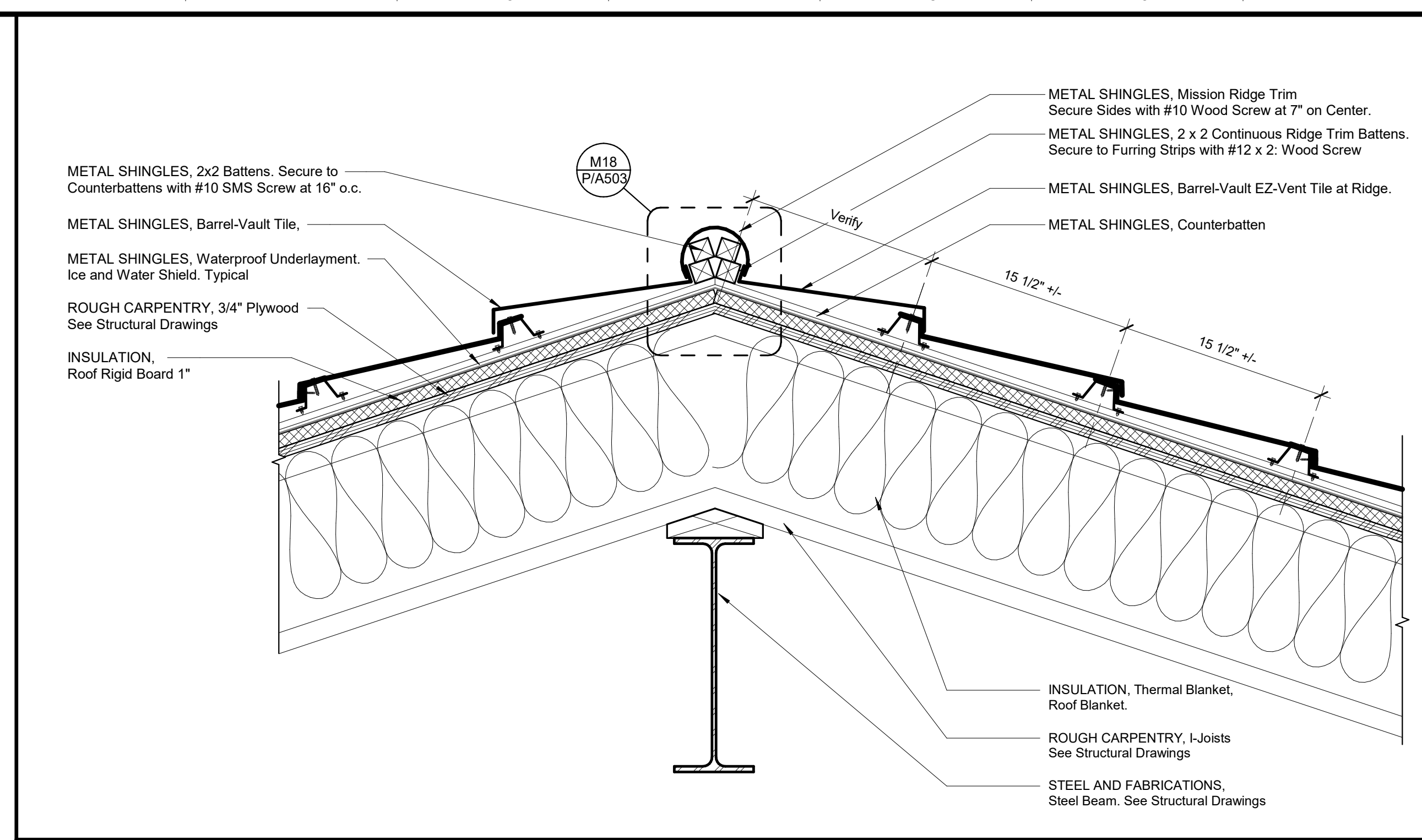
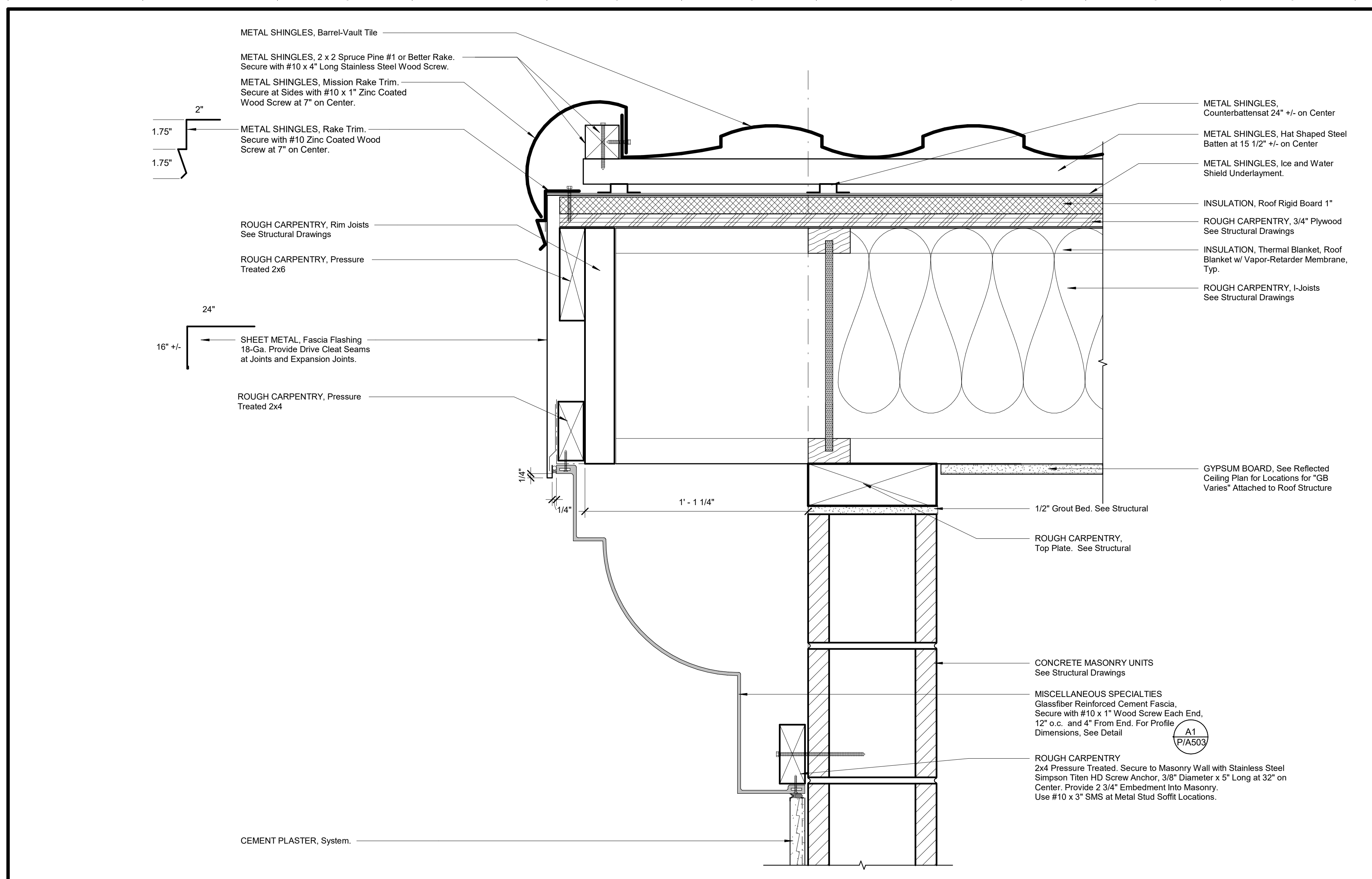
No.	Revision/Submission	Date
1	REVISION_01	05/31/2023

Revision

Designed By: MF Copyright 2022 Darden Architects
Scale: As indicated Drawn By: KT
Project Number: 2180 Checked By: -
Date: 03/28/2023 Reviewed By: MF

P/A501

8/18/2023 4:27:21 PM
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DSA File No.: 54-H11

APP: 02-120251 INC.

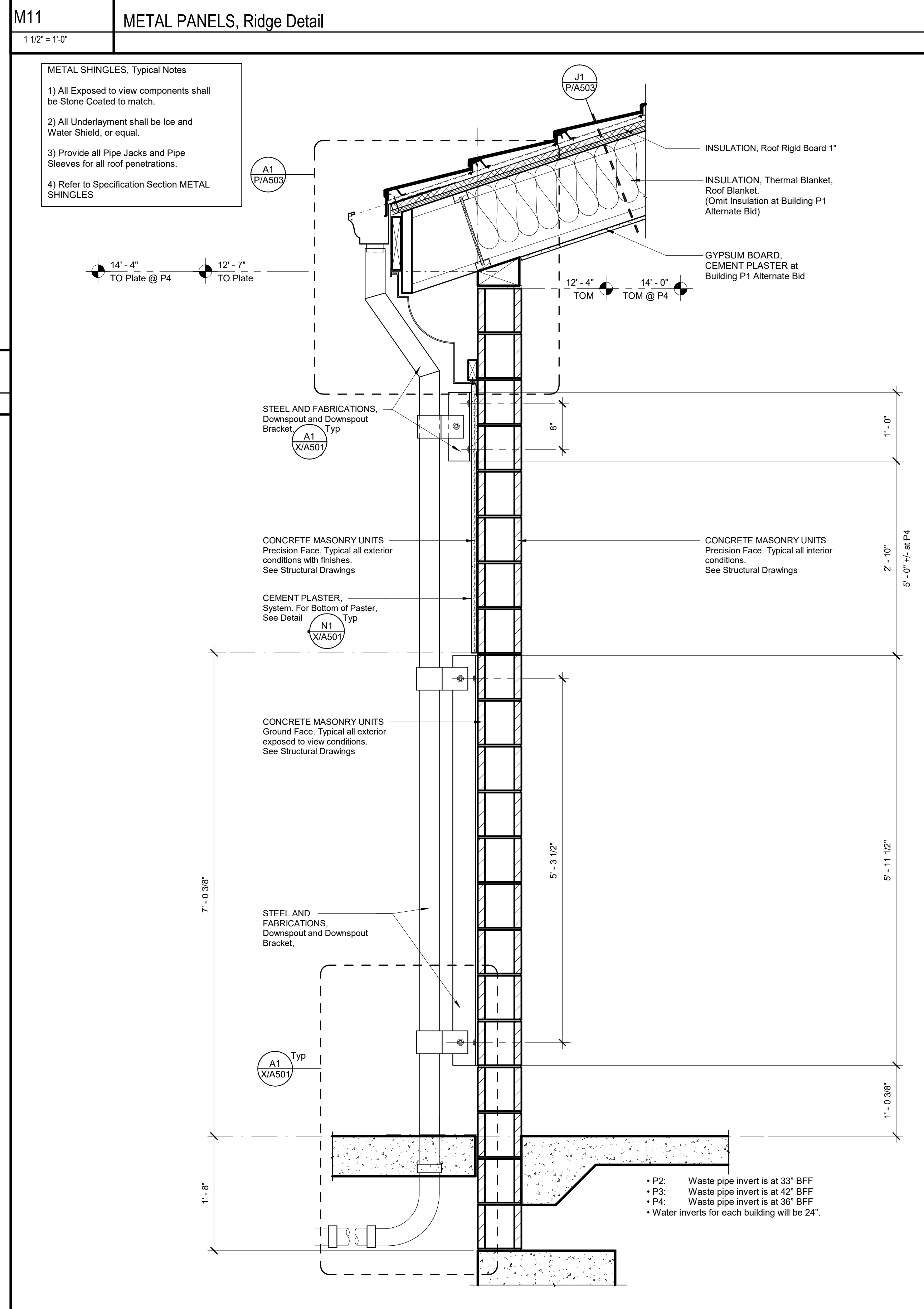
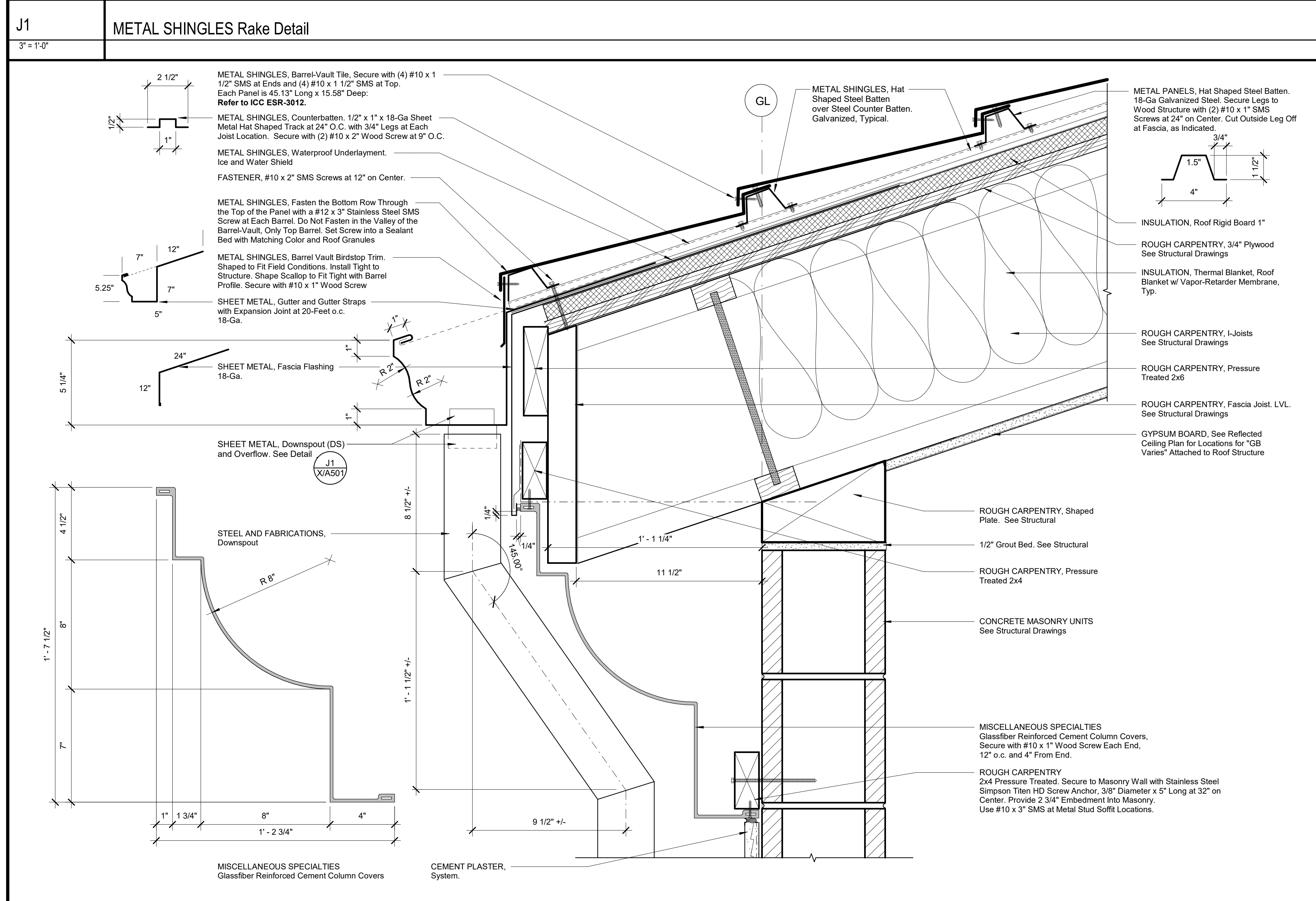
REVIEWED FOR: SS FLS ACS

DATE: 01/31/2023

Agency Approval

DSA Application No.: 02-120251

METAL SHINGLES, 2x2 Battens; METAL SHINGLES, Mission Ridge Trim; METAL SHINGLES, 2 x 2 Continuous Ridge Trim Battens; METAL SHINGLES, Barrel-Vault EZ-Vent Tile at ridge; METAL SHINGLES, Counterbatten; METAL SHINGLES, Hat Shaped Steel Batten; METAL SHINGLES, Ice and Water Shield Underlayment; INSULATION, Roof Rigid Board 1"; ROUGH CARPENTRY, 3/4" Plywood; INSULATION, Thermal Blanket, Roof Blanket w/ Vapor-Retarder Membrane, Typ.; ROUGH CARPENTRY, I-Joists; GYPSUM BOARD; CONCRETE MASONRY UNITS; MISCELLANEOUS SPECIALTIES; ROUGH CARPENTRY; SHEET METAL; FASTENER; METAL SHINGLES; METAL PANELS; INSULATION; ROUGH CARPENTRY; GYPSUM BOARD; CEMENT PLASTER; STEEL AND FABRICATIONS.



M11 METAL PANELS, Ridge Detail 1 1/2" = 1'-0"

M18 METAL PANELS, Ridge Detail 3" = 1'-0"

J1 METAL SHINGLES Rake Detail 3" = 1'-0"

A11 WALL SECTION AT EAVE 1" = 1'-0"

Mission Oak HS Aquatic Complex
Tulare Joint Union High School District
Tulare, CA 93274

BUILDING P
ROOF AND WALL DETAILS

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ARCHITECT

No.	Revision/Submission	Date

Scale: As indicated
Project Number: 2180
Date: 12/13/2022

Designed By: MF
Checked By: -
Reviewed By: MF

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P/A503

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CONSTRUCTION SET

APPROVED
BY THE STATE ARCHITECT
APP: 02-120251, INC.
REVIEWED FOR
SS ID: P/A504 ACS ID
DATE: 08/28/2023

SI-02 Details added

METAL DECK, 1.5" Galvanized. See Structural Drawings.
STEEL AND FABRICATIONS, Wide Flange Beam. See Structural Drawings for Size and Connections.

CONCRETE MASONRY UNITS See Detail J14 SD/A407

8'-0" TO Masonry

N7 METAL DECK, Rake Detail at Pool Storage Copy 1
1 1/2" = 1'-0"

METAL DECK, 1.5" Galvanized. See Structural Drawings.
STEEL AND FABRICATIONS, Wide Flange Beam. See Structural Drawings for Size and Connections.

CONCRETE MASONRY UNITS See Detail J14 SD/A407

4"

N11 METAL DECK, Ridge Detail at Pool Storage
3" = 1'-0"

SHEET METAL, Ridge Flashing 18 Gage. Provide Drive Cleat Seams and Align at Each Column Locations. Secure to Deck w/ #12 SMS at Ea. Flute.

SEALANT

METAL DECK, 1.5" Galvanized. See Structural Drawings.
STEEL AND FABRICATIONS, 1/4" Continuous Bent Plate. With Continuous Application of Plastic Steel Putty, Sand Smooth. See Structural Drawings for Welding.

STEEL AND FABRICATIONS, 4" Wide x 3/16" Thick Steel Plate. Coordinate the Locations with the Pace Clock.

STEEL AND FABRICATIONS, Wide Flange Beam. See Structural Drawings for Size and Connections.

STEEL AND FABRICATIONS, HSS Column, Beyond. See Structural Drawings for Size.

AQUATICS, Pace Clock / Timer Where Occurs. Refer to Aquatics drawings

N14 METAL DECK, Rake Detail at Pool Storage
1 1/2" = 1'-0"

Edge of Building, Where Occurs

SHEET METAL, Rake Profile Trim, 18 Gage. Secure with #12 SMS at 18" o.c. Apply Sealant at All Edges and Gaps.

METAL DECK, 1.5" Galvanized. See Structural Drawings.

STEEL AND FABRICATIONS, Wide Flange Beam. See Structural Drawings for Size and Connections.

J7 METAL DECK, Rake Detail at Pool Storage Copy 1 Copy 1
1 1/2" = 1'-0"

METAL DECK, 1.5" Galvanized. See Structural Drawings.
STEEL AND FABRICATIONS, Wide Flange Beam. See Structural Drawings for Size and Connections.

CONCRETE MASONRY UNITS See Detail J14 SD/A407

4"

J11 METAL DECK, Detail at Pool Storage
3" = 1'-0"

METAL DECK, 1.5" Galvanized. See Structural Drawings.

CONCRETE MASONRY UNITS See Detail J14 SD/A407

8'-0" TO Masonry

J14 METAL DECK, Facia Detail at Pool Storage
3" = 1'-0"

SHEET METAL, Gutter and Gutter Straps with Expansion Joint at 20'-Feet o.c. 18-Ga. See Details A1 P/A503 X/A501

METAL DECK, 1.5" Galvanized. See Structural Drawings.

STEEL AND FABRICATIONS, Downspout and Downspout Bracket. See Detail A1 X/A501

CONCRETE MASONRY UNITS See Detail J14 SD/A407

8'-0" TO Masonry

27'-0" TO Steel

AQUATICS, Event Speaker. See Aquatics Drawings and Electrical

STEEL AND FABRICATIONS, Scoreboard Structure. See Structural Drawings and Detail A4 P/A505

AQUATICS, Scoreboard and Timing System. See Aquatics Drawings

38'-0"

20'-4"

17'-4"

10'-6" BO Steel TO Steel

10'-0" TO Steel

AQUATICS, Pace Clock / Timer. See Aquatics Drawings and Electrical. See Exterior Elevations for locations

N11 P/A504

STEEL AND FABRICATIONS, HSS Column. See Structural Drawings for Size

CHAIN LINK Fence. See Detail J11 SD/A402

3" Gap 3 1/2" Max

0'-0" FF

CONCRETE MASONRY UNITS, Top of Wall. See Detail J14 SD/A407

CONCRETE MASONRY UNITS. See Detail J14 SD/A407

CAST-IN-PLACE CONCRETE, Pool Deck Concrete Walk. See Aquatics Drawings for Details and Grading. See Pool Concrete Specification.

CAST-IN-PLACE CONCRETE Foundation. See Structural Drawings.

EARTHWORK, Engineered Fill

3" Gap 3 1/2" Max

8'-0" TO Masonry

DSA File No.: 54-H11

DSA Application No.: 02-120251

Agency Approval

N7	METAL DECK, Rake Detail at Pool Storage Copy 1	N11	METAL DECK, Ridge Detail at Pool Storage
1 1/2" = 1'-0"		3" = 1'-0"	
J7	METAL DECK, Rake Detail at Pool Storage Copy 1 Copy 1	J11	METAL DECK, Detail at Pool Storage
1 1/2" = 1'-0"		3" = 1'-0"	
N14	METAL DECK, Rake Detail at Pool Storage	J14	METAL DECK, Facia Detail at Pool Storage
1 1/2" = 1'-0"		3" = 1'-0"	

Mission Oak HS Aquatic Complex
Tulare Joint Union High School District
Tulare, CA 93274

BUILDING P4
BUILDING P4 - POOL STORAGE DETAILS

Project

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ARCHITECT
P/A504
No. C23724
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date
1	REVISION_01	05/31/2023

Revision

Designed By: MF Copyright 2022 Darden Architects

Scale: As indicated Drawn By: KT

Project Number: 2180 Checked By: -

Date: 03/28/2023 Reviewed By: MF

P/A504

Sheet: _____ of: _____

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CONSTRUCTION SET

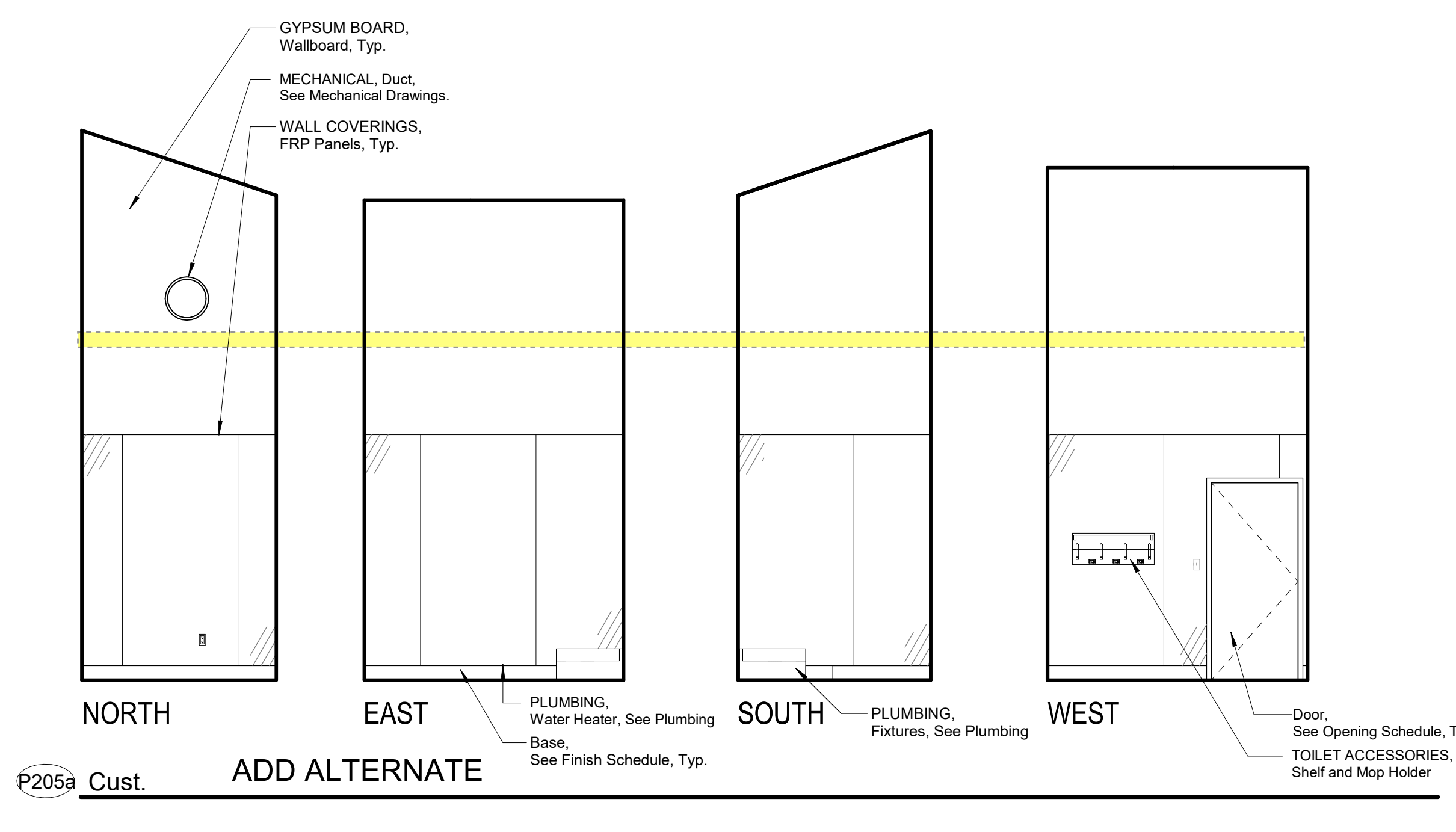
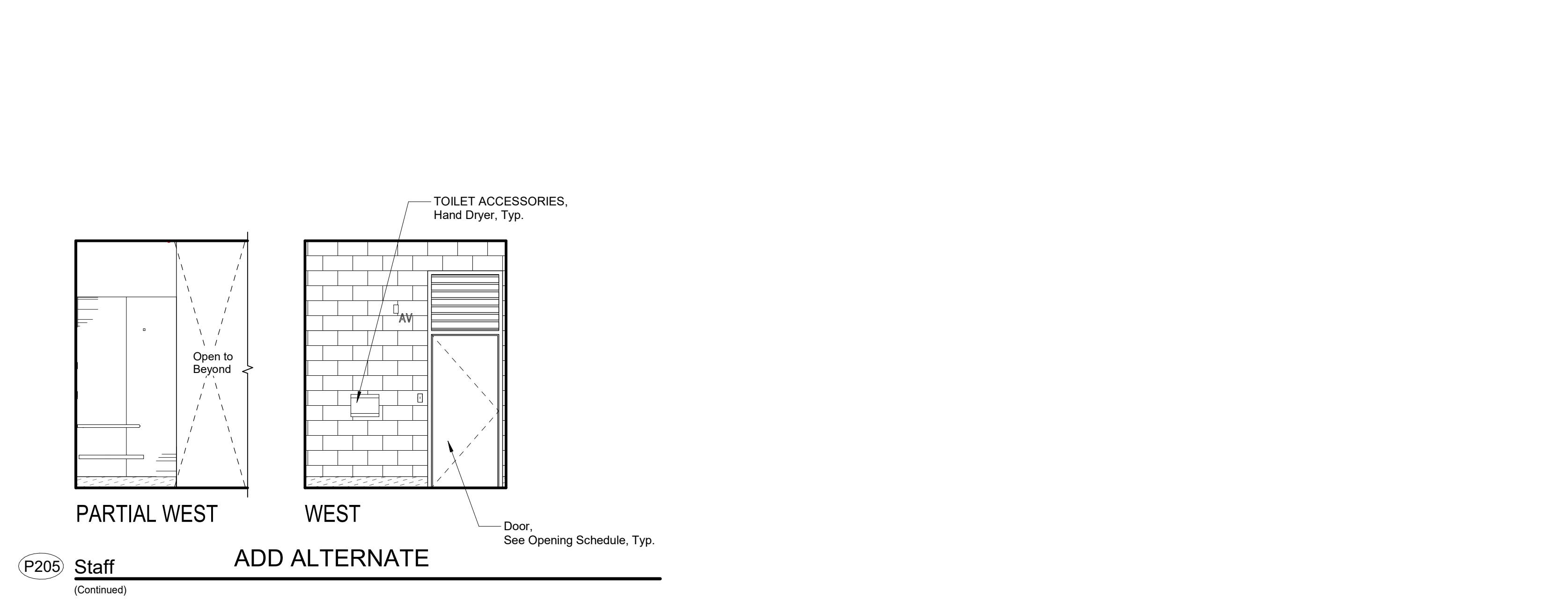
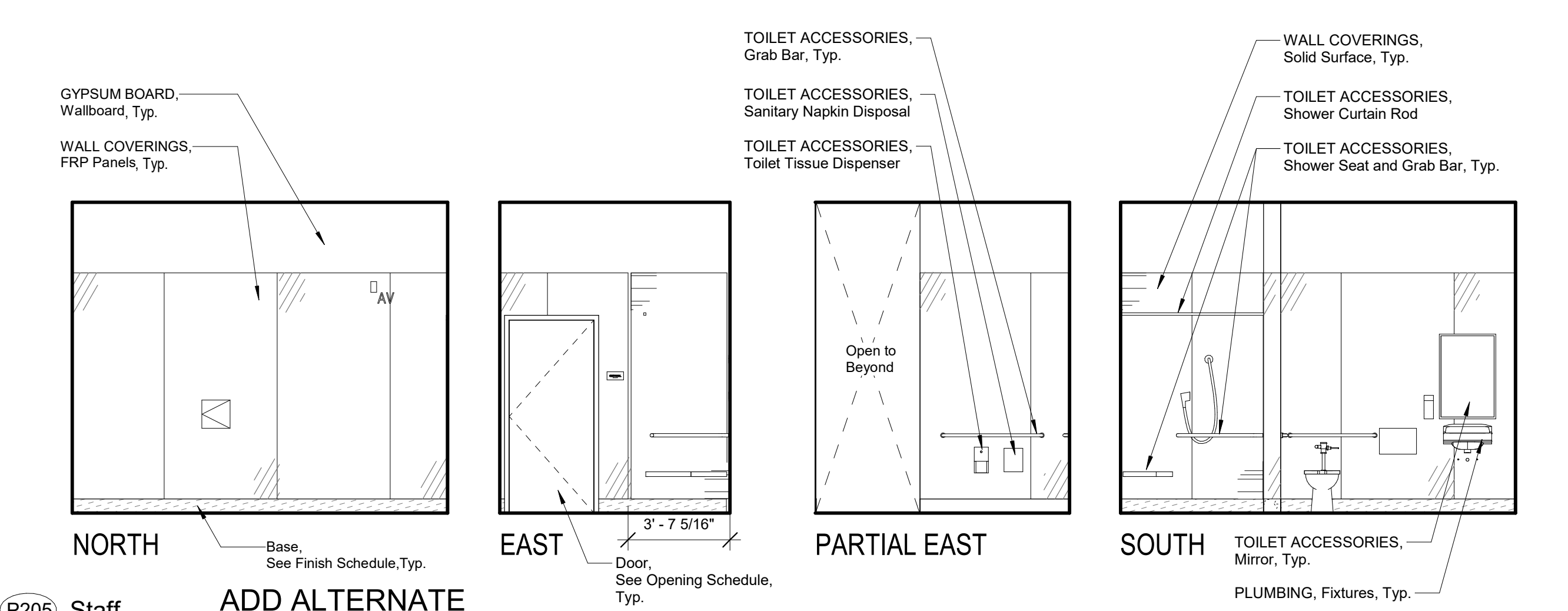
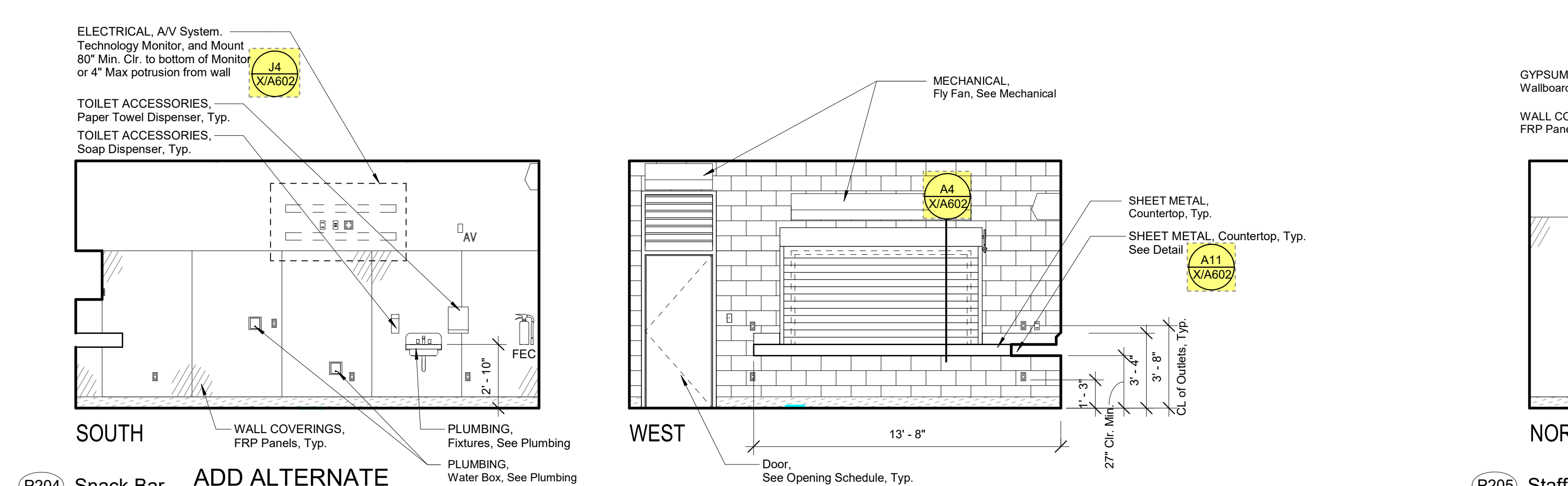
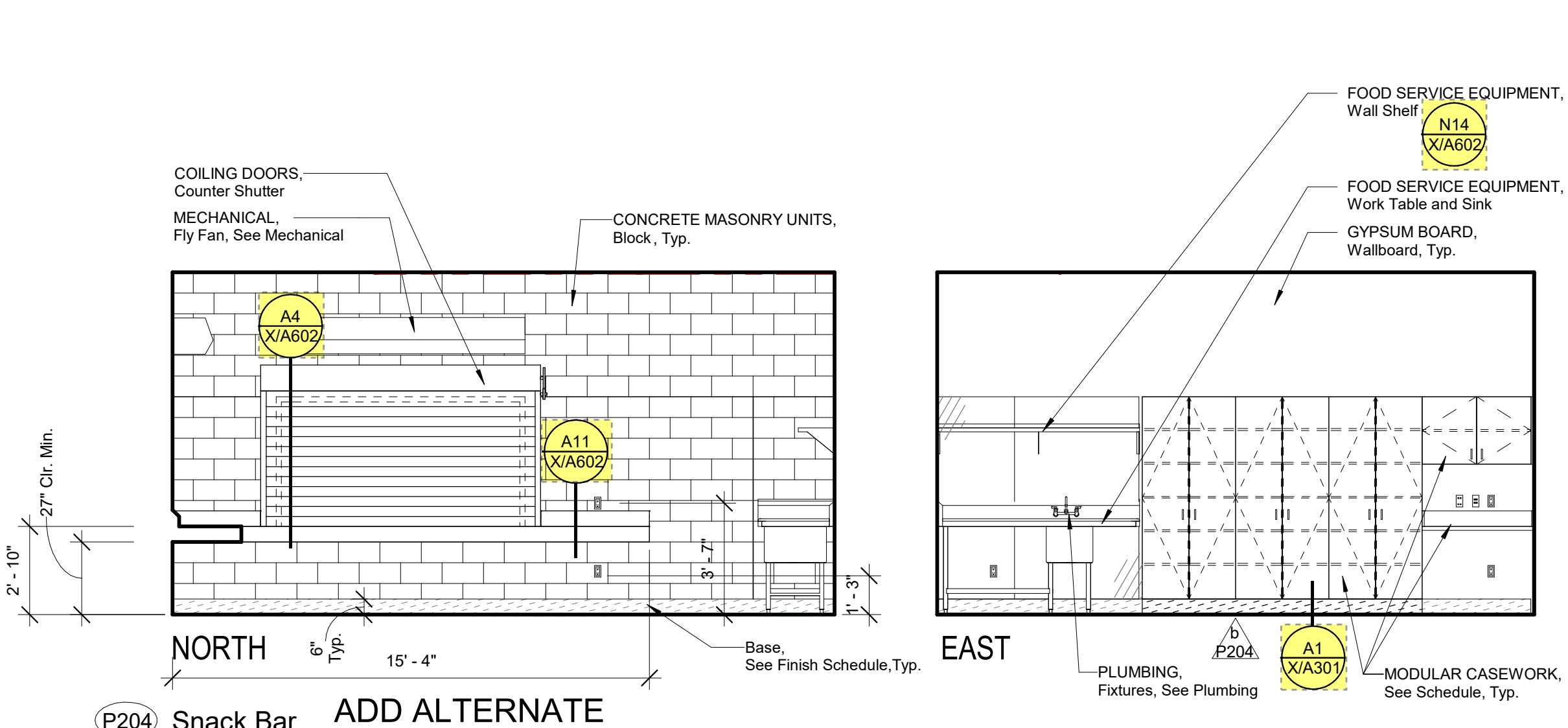
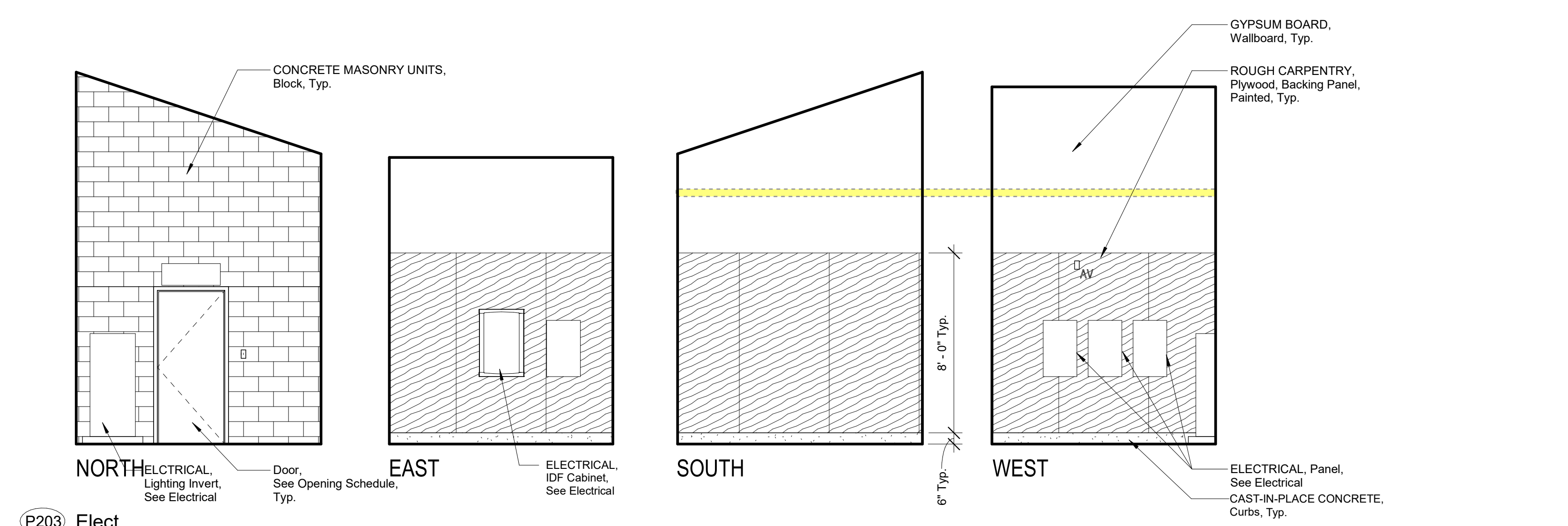
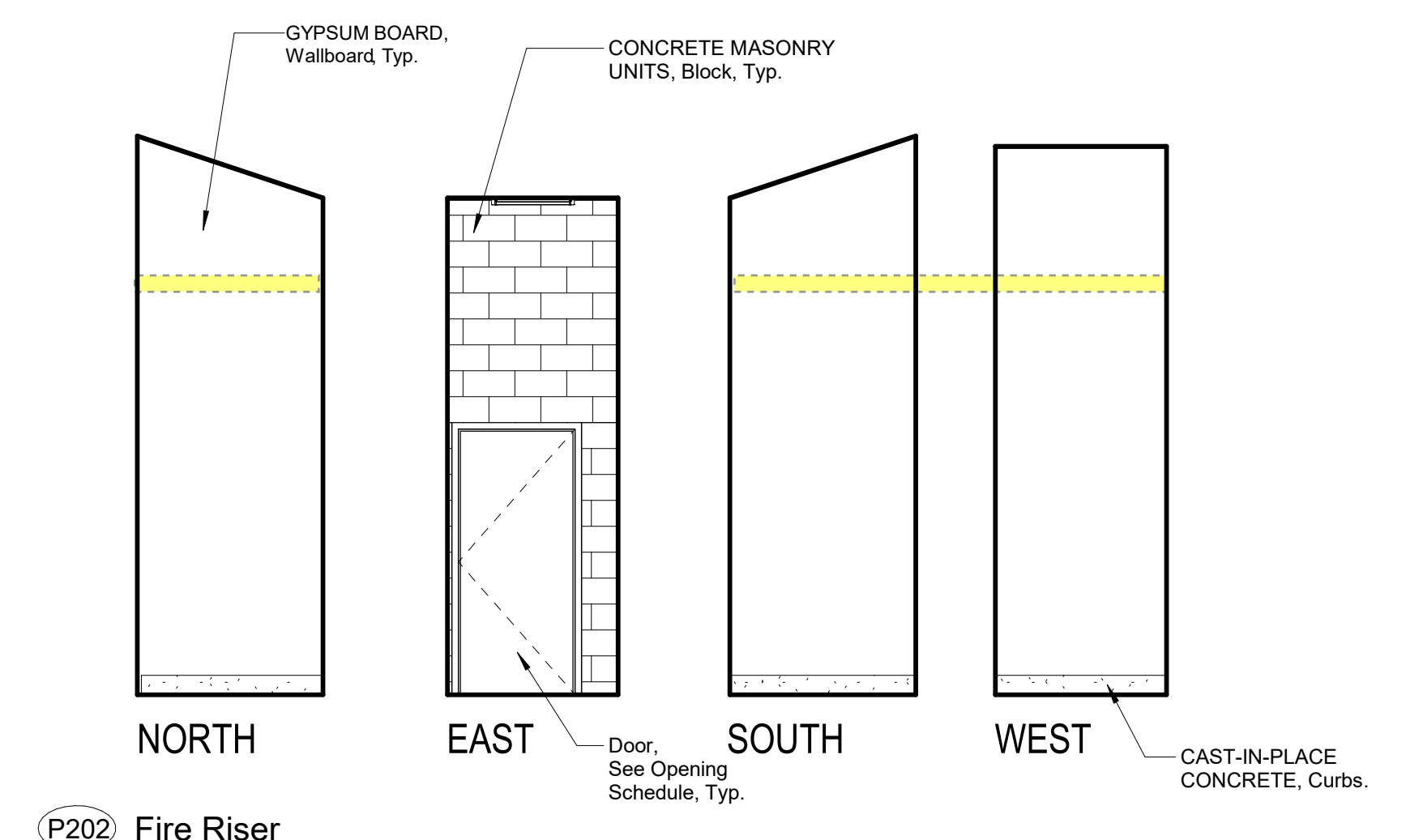
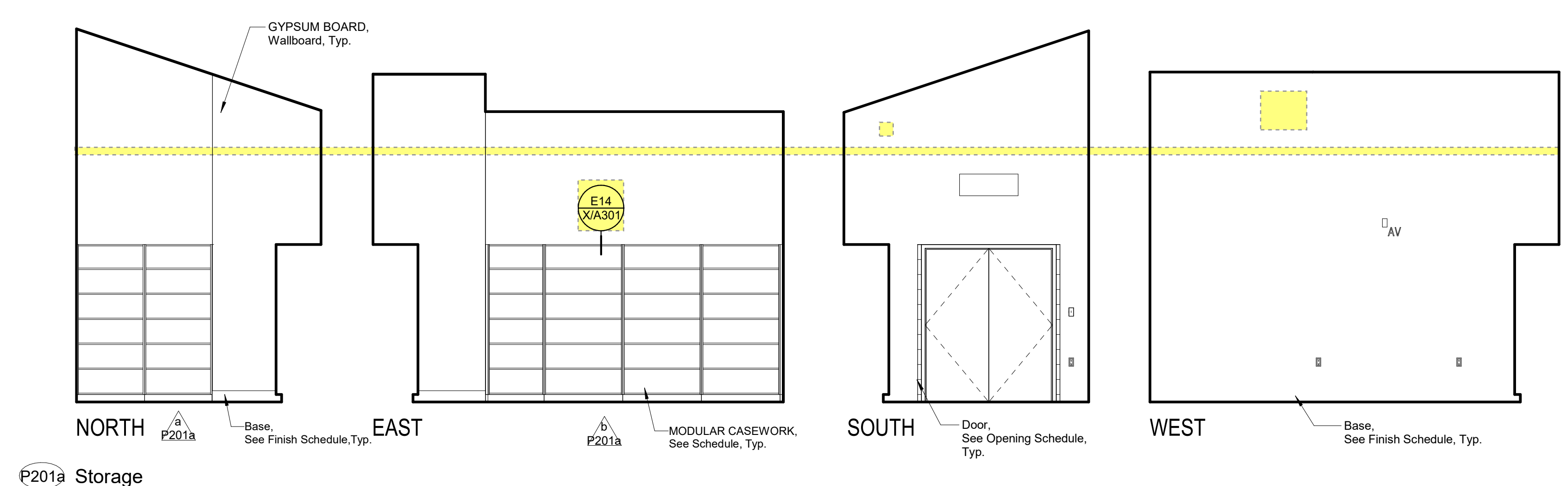
APPROVED BY THE STATE ARCHITECT
 APP: 02-120251, INC.
 REVIEWED FOR
 SS ID: PLS ID: ACS ID
 DATE: 08/28/2023

DSA File No.: 54-H11
 DSA Application No.: 02-120251
 Agency Approval

- ### SYMBOLS
- Cabinet Group No. Refer to Modular Casework Schedule and Lab Casework Schedule.
 - FIRE PROTECTION SPECIALTIES, Fire Extinguisher Cabinet, Top of Cabinet @ +5'-0". Unless Noted Otherwise, Provide Fire Rated Cabinet at Rated Walls. See Detail N14 X/A602
 - WALL COVERINGS, FRP Panels E14 X/A601
 - WALL COVERINGS, Solid Surfacing A14 X/A601
 - ROUGH CARPENTRY, Plywood Sheathing, AC
 - PLUMBING, Access Door, See Plumbing Drawings
 - ELECTRICAL, AV/Speaker @ +7'-6" to center of device. Unless Noted Otherwise.
 - ELECTRICAL, Clock/Speaker @ +8'-6" to center of device. Unless Noted Otherwise.
 - ELECTRICAL, Outlet
 - ELECTRICAL, Light Switch
 - ELECTRICAL, Fire Alarm Device
 - ELECTRICAL, Volume Control
 - ELECTRICAL, Television Outlet
 - MECHANICAL, Thermostat
 - PLUMBING, Hose Bib
 - ELECTRICAL, Data Outlet
 - ELECTRICAL, Microphone Outlet
 - ELECTRICAL, Intrusion Sensor
 - ELECTRICAL, Motion Sensor
 - ELECTRICAL, Telephone Outlet
 - ELECTRICAL, HDMI

- ### ABBREVIATIONS
- FEC FIRE PROTECTION SPECIALTIES, Fire Extinguisher and Cabinet.
 - GL Type FEC-1, Unless Noted Otherwise.
 - KS Knee Space
 - OH Opposite Hand
 - Typ. Typical
 - Sim. Similar
 - Dia. Diameter
 - UNO Unless Noted Otherwise

- ### NOTES
- All Details, Materials and Finishes Shall be Considered Typical for All Similar Conditions, Unless Noted Otherwise.
 - Refer to Plumbing, Mechanical, Telecommunications, Food Service, and Electrical for All Wall Mounted Devices and Coordinate Location and Heights with Architectural (i.e. Casework, Equipment, etc.).
 - Locate and Mount TOILET ACCESSORIES and PLUMBING per Detail A7 X/A601 Unless Noted Otherwise.
 - Provide backing at all TOILET ACCESSORIES, TOILET PARTITIONS, and IDENTIFYING DEVICES per Detail N14 X/A601 Unless Noted Otherwise.
 - Provide Backing for TOILET ACCESSORIES, Grab Bars per Detail J11 X/A601
 - Locate and mount IDENTIFYING DEVICES per Detail E1 X/A601 Unless Noted Otherwise.
 - Provide backing at all MODULAR CASEWORK per Detail N14 X/A601
 - WALL COVERINGS, FRP Panels, See Detail E14 X/A601
 - GYPSUM BOARD, Metal Accessories, See Detail J14 X/A601



F18	Interior Elevation legend
No Scale	

Mission Oak HS Aquatic Complex
 Tulare Joint Union High School District
 Tulare, CA 93274 Project

BUILDING P
 INTERIOR ELEVATIONS - ROOMS P201 - P205
 Drawing

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Architect

No.	Revision/Submission	Date
1	REVISION_01	05/31/2023

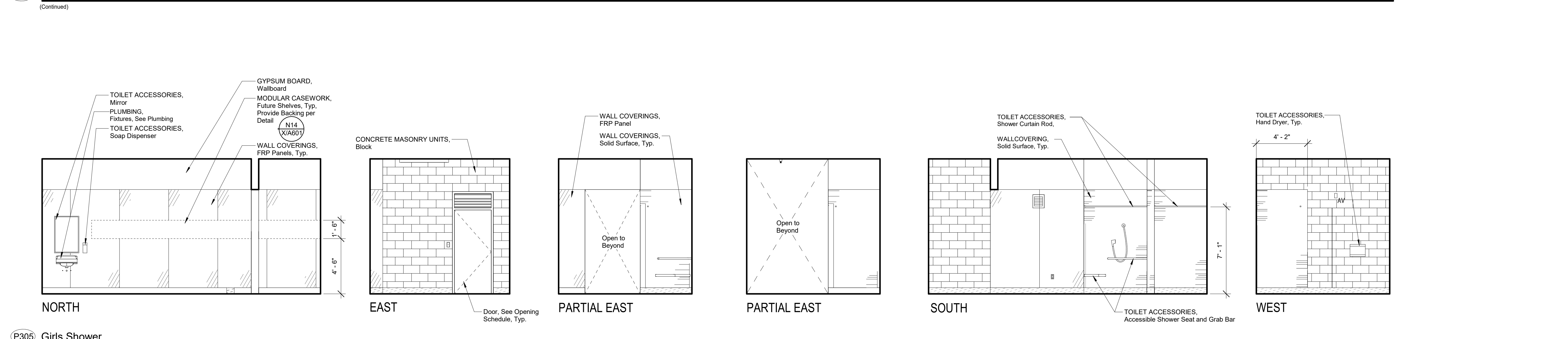
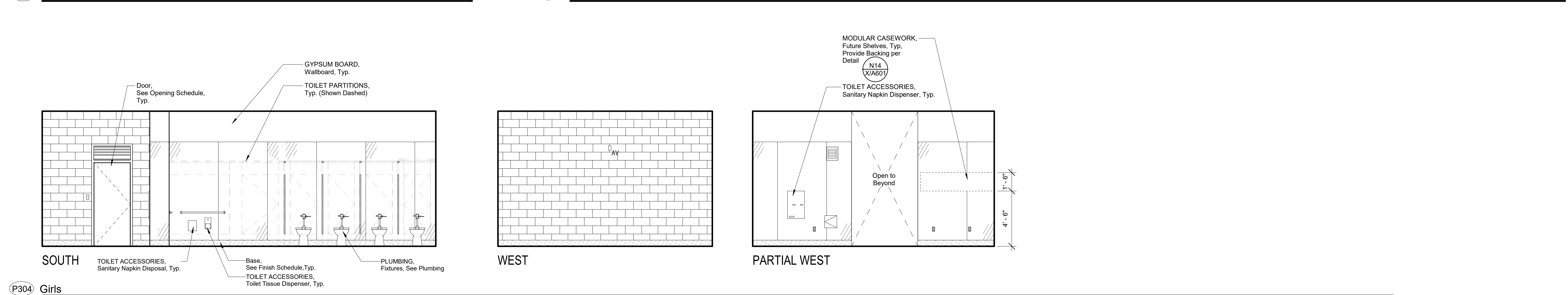
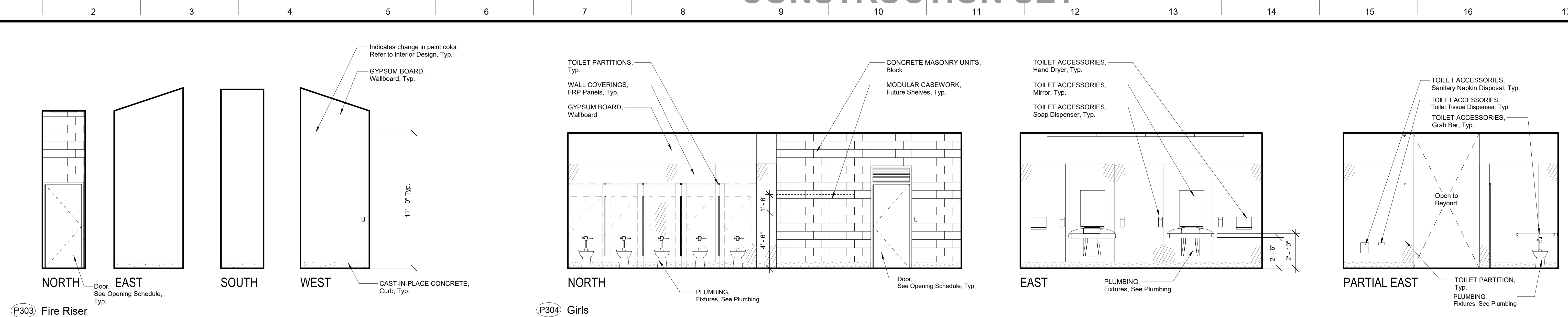
Scale: 1/4" = 1'-0"	Drawn By: Author	Copyright © 2022 Darden Architects
Project Number: 2180	Checked IChecker	
Date: 03/28/2023	Reviewed Approver	

P/A601

8/18/2023 4:27:33 PM e:\Users\alvin\Documents\180 Mission Oak HS Aquatic Complex_R001_V22_A\Invtv.nt

CONSTRUCTION SET

APPROVED BY THE STATE ARCHITECT
 APP: 02-120251, INC.
 REVIEWED FOR
 68 02 PLS 01 ACS 01
 DATE 08/28/2023



DSA File No.: 54-H11
 DSA Application No.: 02-120251
 Agency Approval

SYMBOLS

- Cabinet Group No. Refer to Modular Casework Schedule and Lab Casework Schedule.
- FIRE PROTECTION SPECIALTIES, Fire Extinguisher Cabinet, Top of Cabinet @ +5'-0". Unless Noted Otherwise, Provide Fire Rated Cabinet at Rated Walls. See Detail N1 X/A602
- WALL COVERINGS, FRP Panels E14 X/A601
- WALL COVERINGS, Solid Surfacing A14 X/A601
- ROUGH CARPENTRY, Plywood Sheathing, AC
- PLUMBING, Access Door, See Plumbing Drawings
- ELECTRICAL, AV/Speaker @ +7'-6" to center of device, Unless Noted Otherwise.
- ELECTRICAL, Clock/Speaker @ +8'-6" to center of device, Unless Noted Otherwise.
- ELECTRICAL, Outlet
- ELECTRICAL, Light Switch
- ELECTRICAL, Fire Alarm Device
- ELECTRICAL, Volume Control
- ELECTRICAL, Television Outlet
- MECHANICAL, Thermostat
- PLUMBING, Hose Bib
- ELECTRICAL, Data Outlet
- ELECTRICAL, Microphone Outlet
- ELECTRICAL, Intrusion Sensor
- ELECTRICAL, Motion Sensor
- ELECTRICAL, Telephone Outlet
- ELECTRICAL, HDMI

ABBREVIATIONS

- FEC FIRE PROTECTION SPECIALTIES, Fire Extinguisher and Cabinet, Type FEC-1, Unless Noted Otherwise.
- Gl. Glass
- KS Knee Space
- OH Opposite Hand
- Typ. Typical
- Sim. Similar
- Dia. Diameter
- UNO Unless Noted Otherwise

- NOTES**
- All Details, Materials and Finishes Shall be Considered Typical for All Similar Conditions, Unless Noted Otherwise.
 - Refer to Plumbing, Mechanical, Telecommunications, Food Service, and Electrical for All Wall Mounted Devices and Coordinate Location and Heights with Architectural (ie. Casework, Equipment, etc.).
 - Locate and Mount TOILET ACCESSORIES and PLUMBING per Detail A7 X/A601 Unless Noted Otherwise.
 - Provide backing at all TOILET ACCESSORIES, TOILET PARTITIONS, and IDENTIFYING DEVICES per Detail N14 X/A601 Unless Noted Otherwise.
 - Provide Backing for TOILET ACCESSORIES, Grab Bars per Detail J11 X/A601
 - Locate and mount IDENTIFYING DEVICES per Detail E1 X/A601 Unless Noted Otherwise.
 - Provide backing at all MODULAR CASEWORK per Detail N14 X/A601
 - WALL COVERINGS, FRP Panels, See Detail E14 X/A601
 - GYPSUM BOARD, Metal Accessories, See Detail J14 X/A601

F18	Interior Elevation legend
No Scale	

Mission Oak HS Aquatic Complex
 Tulare Joint Union High School District
 Tulare, CA 93274 Project

BUILDING P3
 INTERIOR ELEVATIONS - ROOMS P303 - P306
 Drawing

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 Architect

ARCHITECT OF CALIFORNIA
 No. C23724
 4-30-23

No.	Revision/Submission	Date
1	REVISION_01	05/31/2023

Revision

Designed By: MF Copyright 2022 Darden Architects
 Scale: 1/4" = 1'-0" Drawn By: KT
 Project Number: 2180 Checked By: -
 Date: 03/28/2023 Reviewed By: MF

P/A603

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CONSTRUCTION SET

APPROVED BY THE STATE ARCHITECT
 APP: 02-120251, INC.
 REVIEWED FOR
 SS ID: PLS ID: ACS ID
 DATE: 08/28/2023

DSA File No.: 54-H11
 DSA Application No.: 02-120251
 Agency Approval

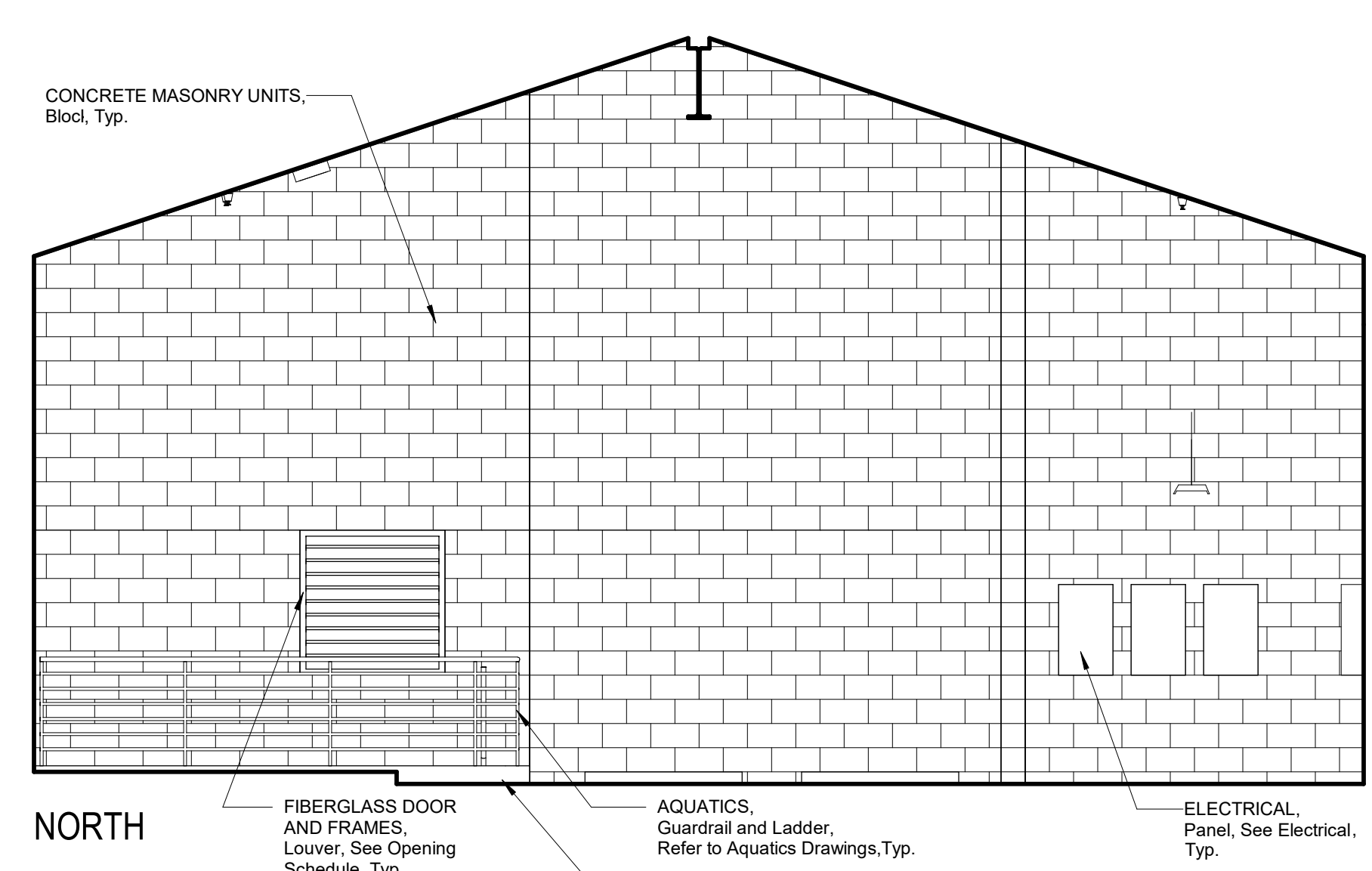
SYMBOLS

	Cabinet Group No. Refer to Modular Casework Schedule and Lab Casework Schedule.
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	WALL COVERINGS, FRP Panels E14 X/A601
	WALL COVERINGS, Solid Surfacing A14 X/A601
	ROUGH CARPENTRY, Plywood Sheathing, AC
	PLUMBING, Access Door, See Plumbing Drawings
	ELECTRICAL, AV/Speaker @ +7'-6" to center of device, Unless Noted Otherwise.
	ELECTRICAL, Clock/Speaker @ +8'-6" to center of device, Unless Noted Otherwise.
	ELECTRICAL, Outlet
	ELECTRICAL, Light Switch
	ELECTRICAL, Fire Alarm Device
	ELECTRICAL, Volume Control
	ELECTRICAL, Television Outlet
	MECHANICAL, Thermostat
	PLUMBING, Hose Bib
	ELECTRICAL, Data Outlet
	ELECTRICAL, Microphone Outlet
	ELECTRICAL, Intrusion Sensor
	ELECTRICAL, Motion Sensor
	ELECTRICAL, Telephone Outlet
	ELECTRICAL, HDMI

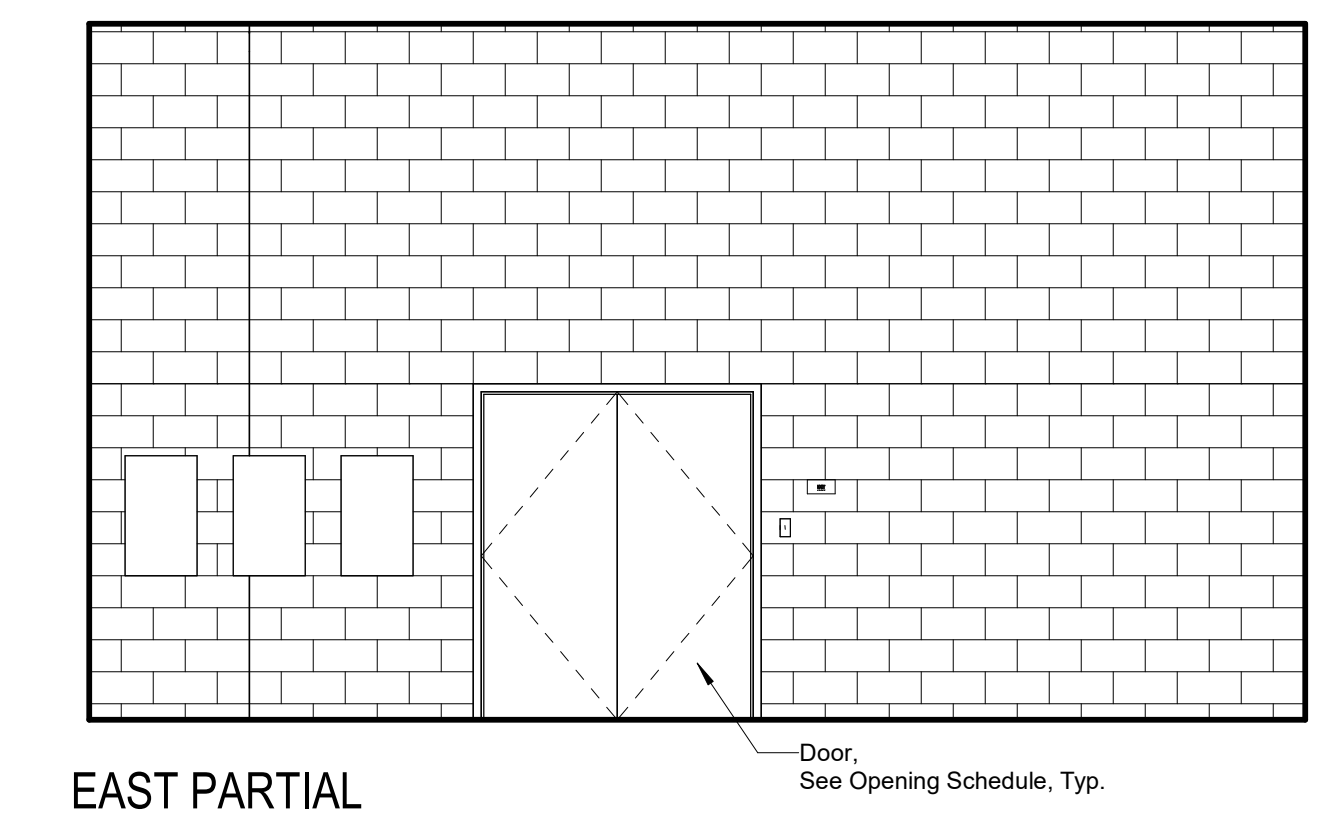
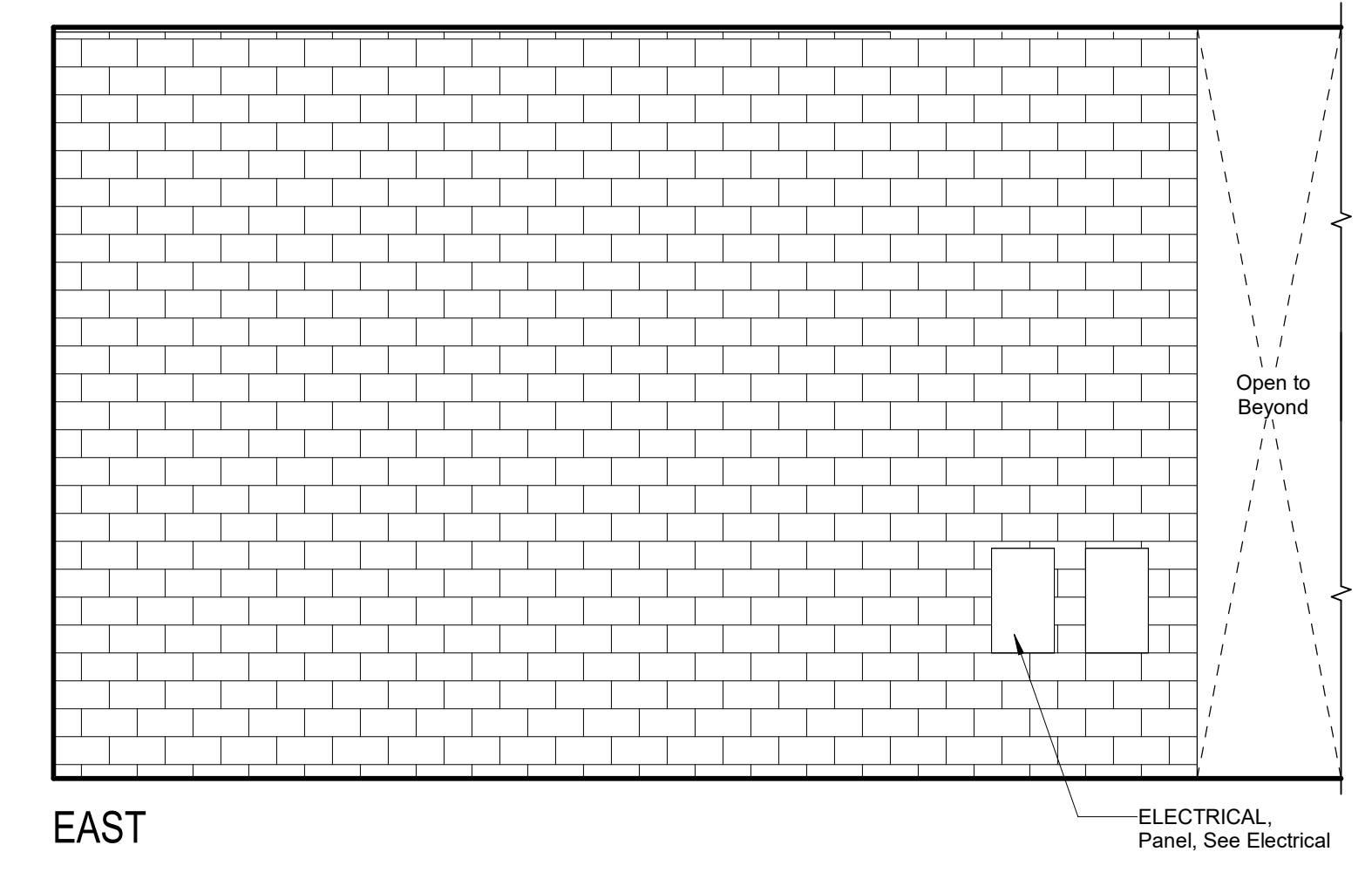
ABBREVIATIONS

FEC	FIRE PROTECTION SPECIALTIES, Fire Extinguisher and Cabinet, Type FEC-1, Unless Noted Otherwise.
Gl.	Glass
KS	Knee Space
OH	Opposite Hand
Typ.	Typical
Sim.	Similar
Dia.	Diameter
UNO	Unless Noted Otherwise

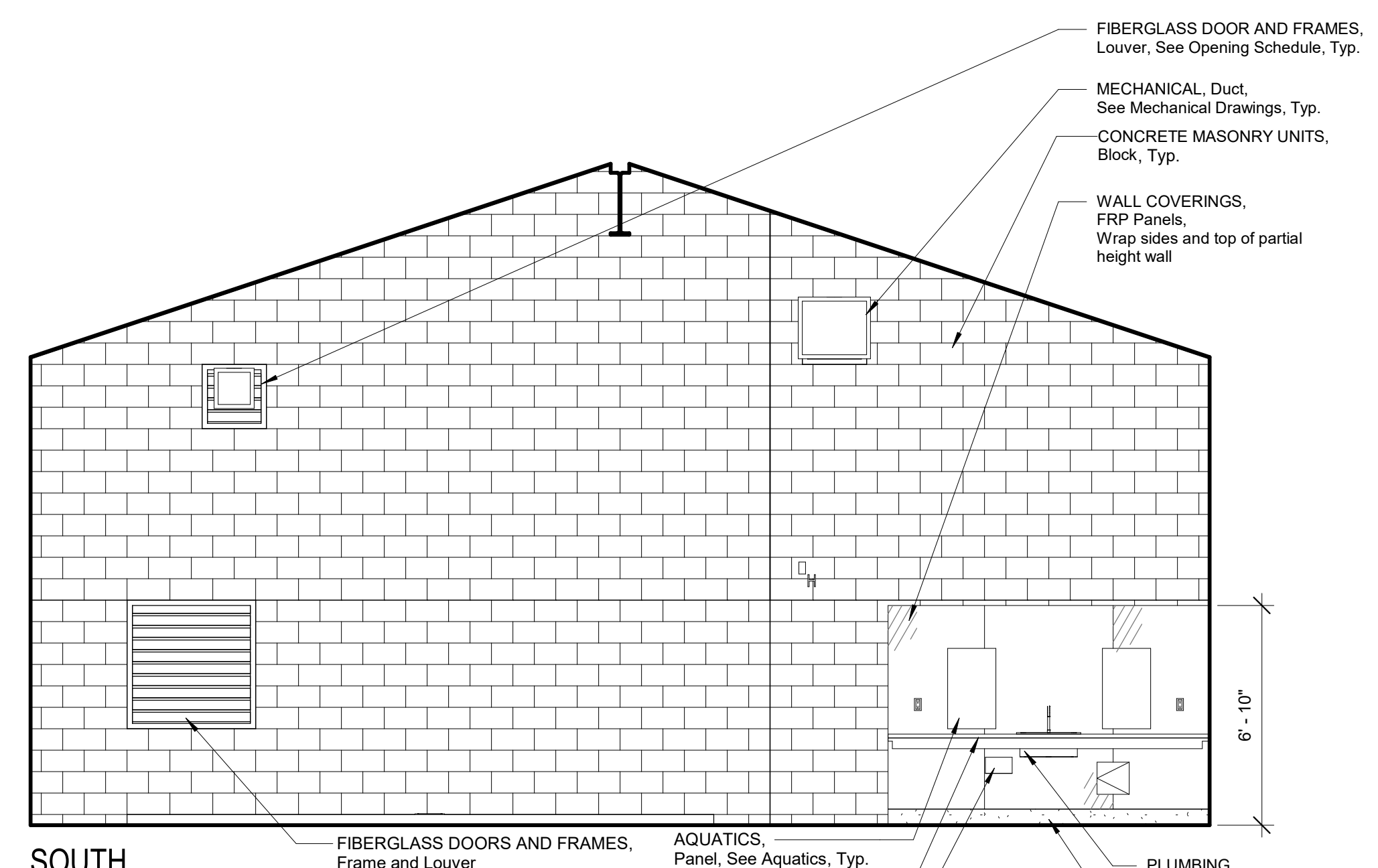
- ### NOTES
- All Details, Materials and Finishes Shall be Considered Typical for All Similar Conditions, Unless Noted Otherwise.
 - Refer to Plumbing, Mechanical, Telecommunications, Food Service, and Electrical for All Wall Mounted Devices and Coordinate Location and Heights with Architectural (ie. Casework, Equipment, etc.).
 - Locate and Mount TOILET ACCESSORIES and PLUMBING per Detail A7 X/A601 Unless Noted Otherwise.
 - Provide backing at all TOILET ACCESSORIES, TOILET PARTITIONS, and IDENTIFYING DEVICES per Detail N14 X/A601 Unless Noted Otherwise.
 - Provide Backing for TOILET ACCESSORIES, Grab Bars per Detail J11 X/A601
 - Locate and mount IDENTIFYING DEVICES per Detail E1 X/A601 Unless Noted Otherwise.
 - Provide backing at all MODULAR CASEWORK per Detail N14 X/A601
 - WALL COVERINGS, FRP Panels, See Detail E14 X/A601
 - GYPSUM BOARD, Metal Accessories, See Detail J14 X/A601



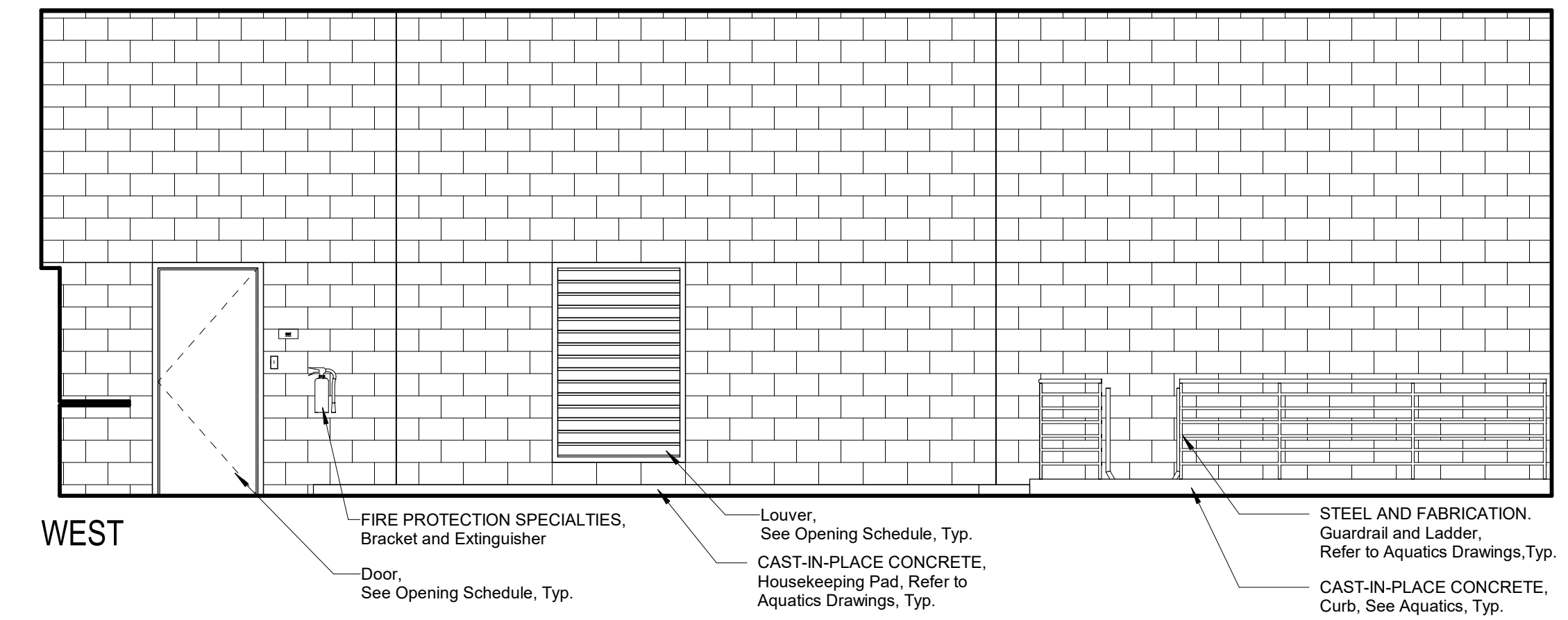
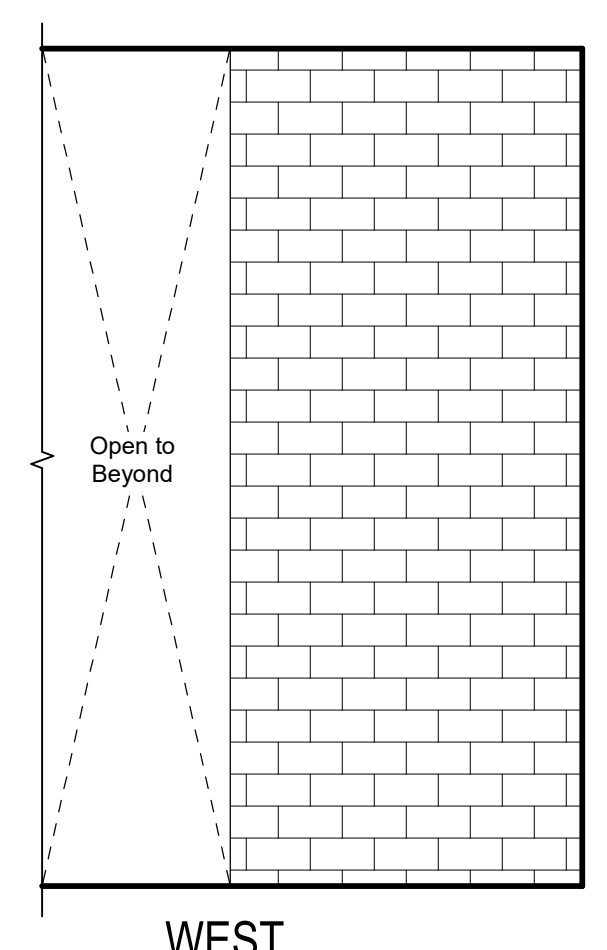
P401 Pool Equipment



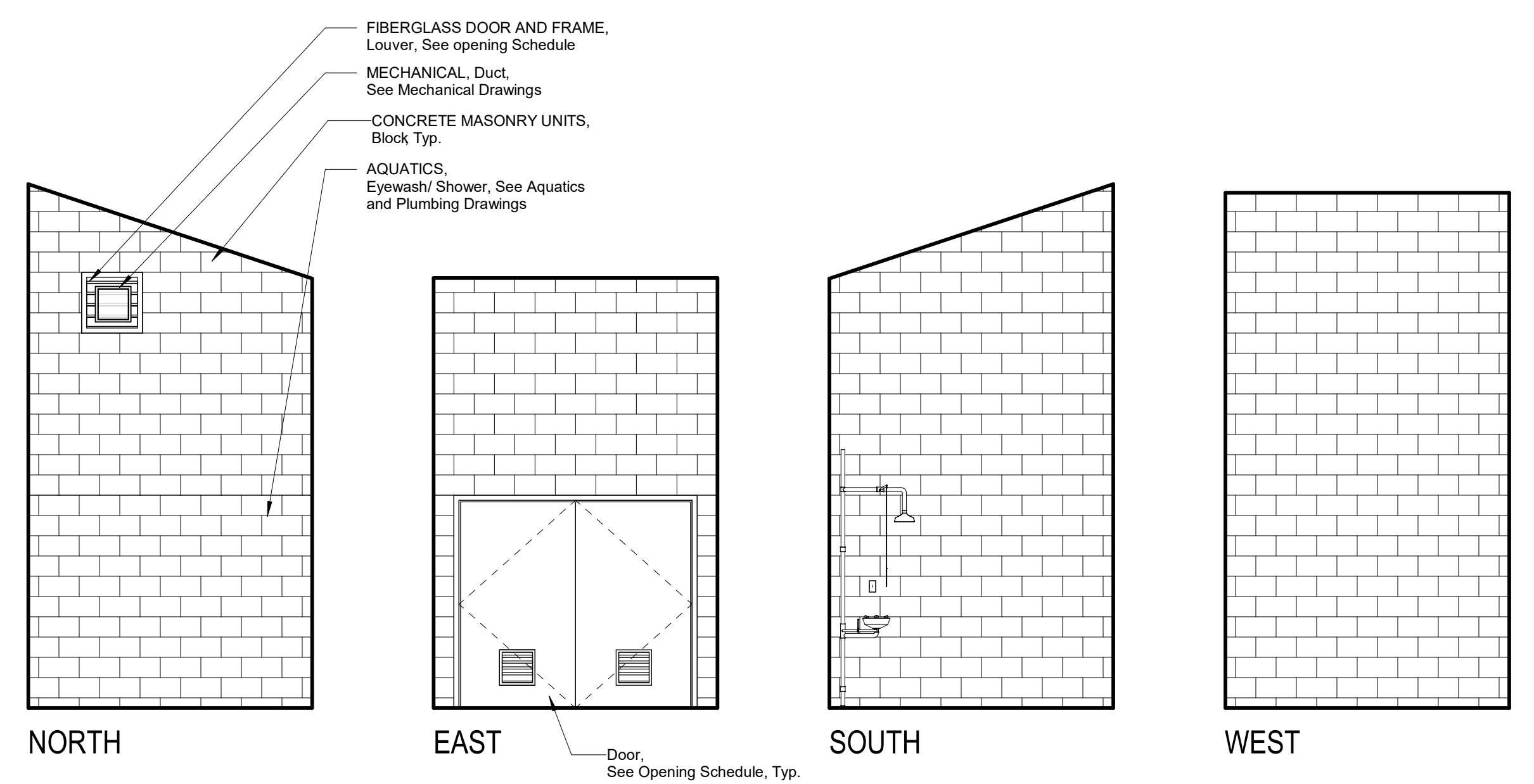
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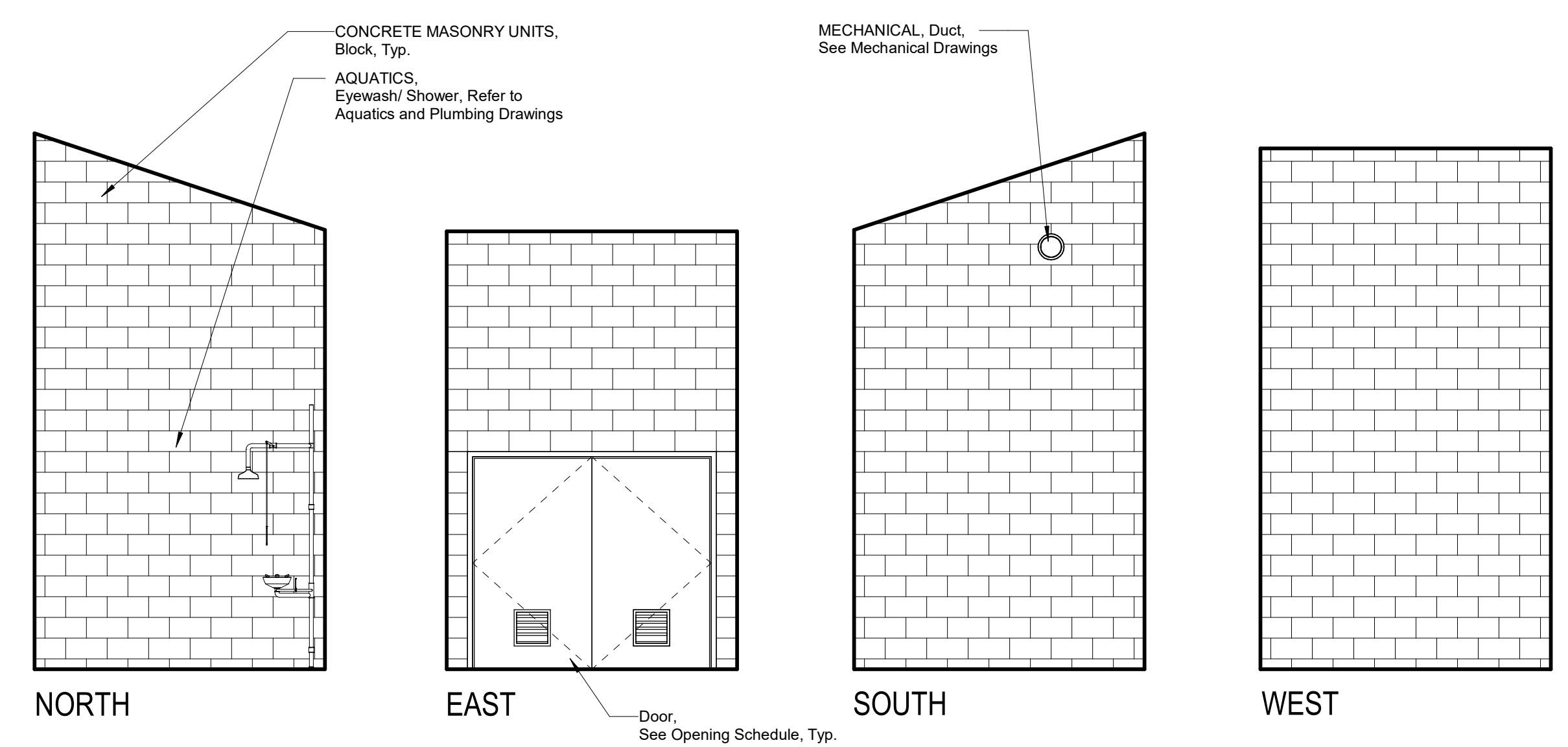
P401 Pool Equipment (Continued)



WEST



P402 Acid



P403 Chlorine

F18	Interior Elevation legend
No Scale	

Mission Oak HS Aquatic Complex
 Tulare Joint Union High School District
 Tulare, CA 93274 Project

BUILDING P4
 INTERIOR ELEVATIONS - ROOMS P401 - P403
 Drawing

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 ARCHITECT

No.	Revision/Submission	Date
1	REVISION_01	05/31/2023

Scale: 1/4" = 1'-0"	Designed By: MF	Copyright 2022 Darden Architects
Project Number: 2180	Drawn By: KT	
Date: 03/28/2023	Checked By: -	
	Reviewed By: MF	

P/A604

8/18/2023 4:27:59 PM
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CONSTRUCTION SET

APPROVED BY THE STATE ARCHITECT
 APP: 02-120251, INC.
 REVIEWED FOR
 SS ID: PLS ID: ACS ID
 DATE: 08/28/2023

DSA File No.:
 54-H11

DSA Application No.:
 02-120251

Agency Approval

SYMBOLS

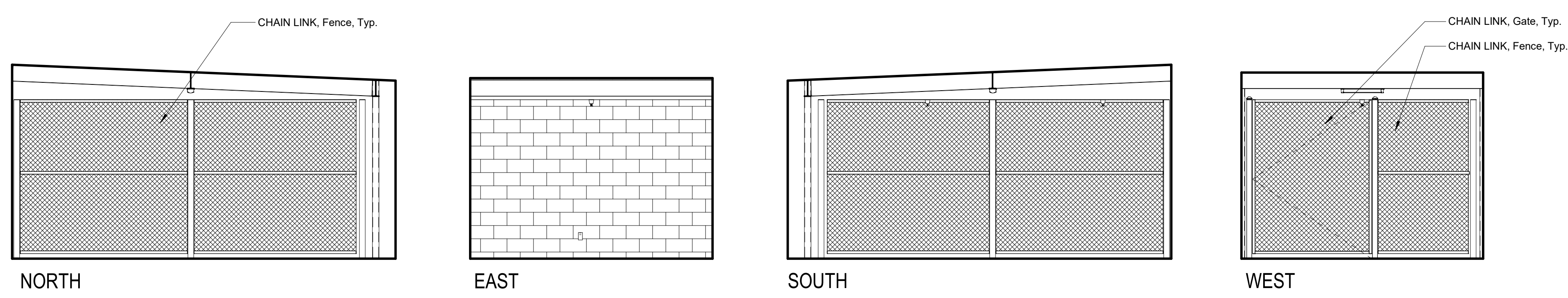
- Cabinet Group No. Refer to Modular Casework Schedule and Lab Casework Schedule.
- FIRE PROTECTION SPECIALTIES, Fire Extinguisher Cabinet, Top of Cabinet @ +5'-0". Unless Noted Otherwise, Provide Fire Rated Cabinet at Rated Walls. See Detail
- WALL COVERINGS, FRP Panels
- WALL COVERINGS, Solid Surfacing
- ROUGH CARPENTRY, Plywood Sheathing, AC
- PLUMBING, Access Door, See Plumbing Drawings
- ELECTRICAL, AV/Speaker @ +7'-6" to center of device. Unless Noted Otherwise.
- ELECTRICAL, Clock/Speaker @ +8'-6" to center of device. Unless Noted Otherwise.
- ELECTRICAL, Outlet
- ELECTRICAL, Light Switch
- ELECTRICAL, Fire Alarm Device
- ELECTRICAL, Volume Control
- ELECTRICAL, Television Outlet
- MECHANICAL, Thermostat
- PLUMBING, Hose Bib
- ELECTRICAL, Data Outlet
- ELECTRICAL, Microphone Outlet
- ELECTRICAL, Intrusion Sensor
- ELECTRICAL, Motion Sensor
- ELECTRICAL, Telephone Outlet
- ELECTRICAL, HDMI

ABBREVIATIONS

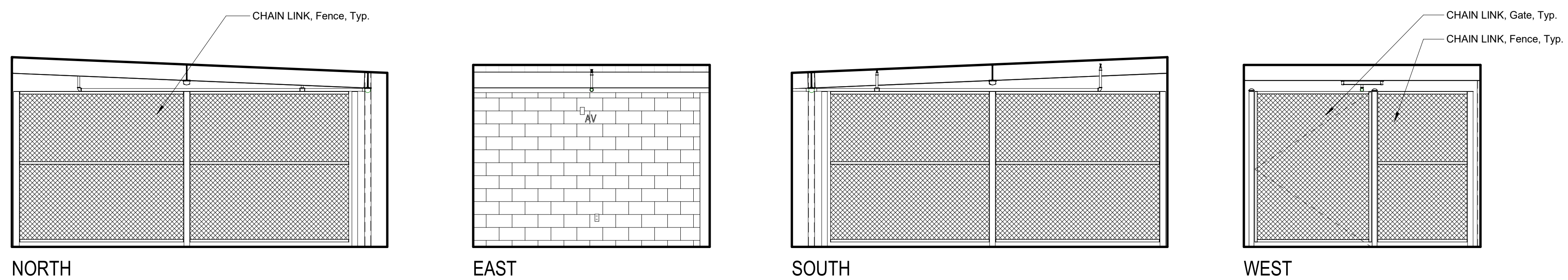
- FEC FIRE PROTECTION SPECIALTIES, Fire Extinguisher and Cabinet. Type FEC-1. Unless Noted Otherwise.
- GL Glass
- KS Knee Space
- OH Opposite Hand
- Typ. Typical
- Sim. Similar
- Dia. Diameter
- UNO Unless Noted Otherwise

NOTES

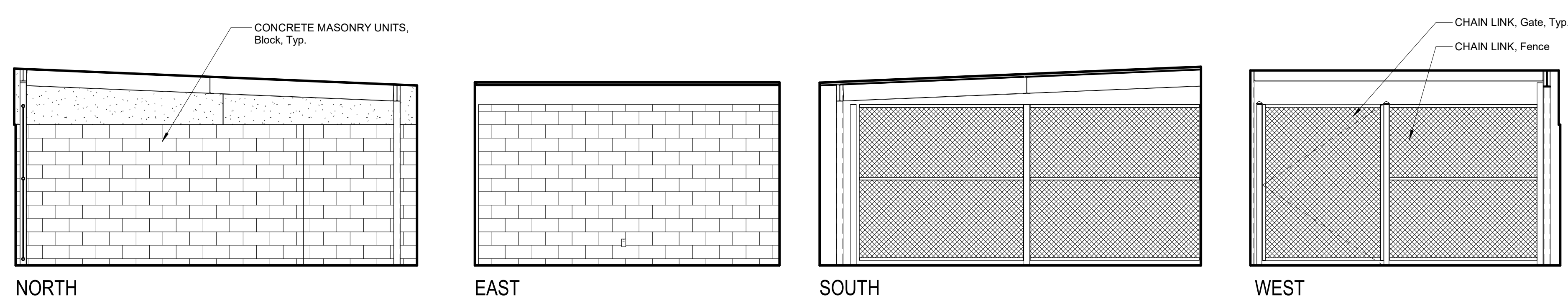
1. All Details, Materials and Finishes Shall be Considered Typical for All Similar Conditions, Unless Noted Otherwise.
2. Refer to Plumbing, Mechanical, Telecommunications, Food Service, and Electrical for All Wall Mounted Devices and Coordinate Location and Heights with Architectural (ie. Casework, Equipment, etc.).
3. Locate and Mount TOILET ACCESSORIES and PLUMBING per Detail Unless Noted Otherwise.
4. Provide backing at all TOILET ACCESSORIES, TOILET PARTITIONS, and IDENTIFYING DEVICES per Detail Unless Noted Otherwise.
5. Provide Backing for TOILET ACCESSORIES, Grab Bars per Detail
6. Locate and mount IDENTIFYING DEVICES per Detail Unless Noted Otherwise.
7. Provide backing at all MODULAR CASEWORK per Detail
8. WALL COVERINGS, FRP Panels, See Detail
9. GYPSUM BOARD, Metal Accessories, See Detail



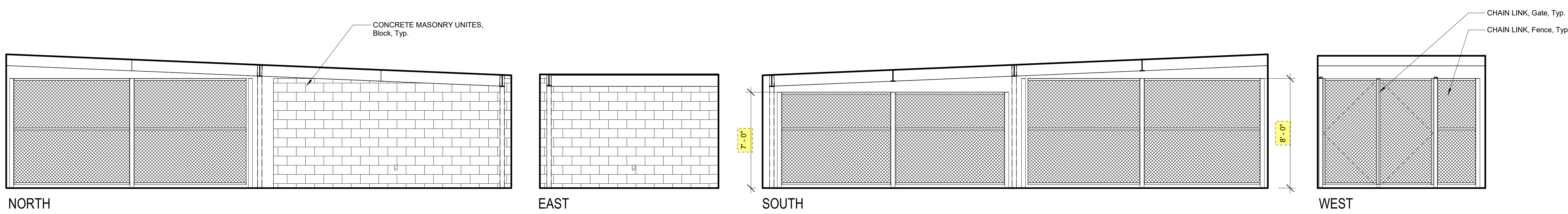
P404b Storage



P404c Storage



P404a Storage



P404d Storage

F18	Interior Elevation legend
No Scale	

Consultant

Mission Oak HS Aquatic Complex
 Tulare Joint Union High School District
 Tulare, CA 93274

BUILDING P
 INTERIOR ELEVATIONS - ROOMS P404a - P404d
 Drawing

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Architect

No.	Revision/Submission	Date
1	REVISION_01	05/31/2023

Revision

Designed By: MF Copyright 2022 Darden Architects

Scale: 1/4" = 1'-0" Drawn By: KT

Project Number: 2180 Checked By: -

Date: 03/28/2023 Reviewed By: MF

P/A605

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CONSTRUCTION SET

APPROVED
BY THE STATE ARCHITECT
APP: 02-120251, INC.
REVISED FOR
SS ID: PLS ID: ACS ID
DATE: 08/28/2023

DSA File No.:
54-H11

DSA Application No.:
02-120251

Agency Approval

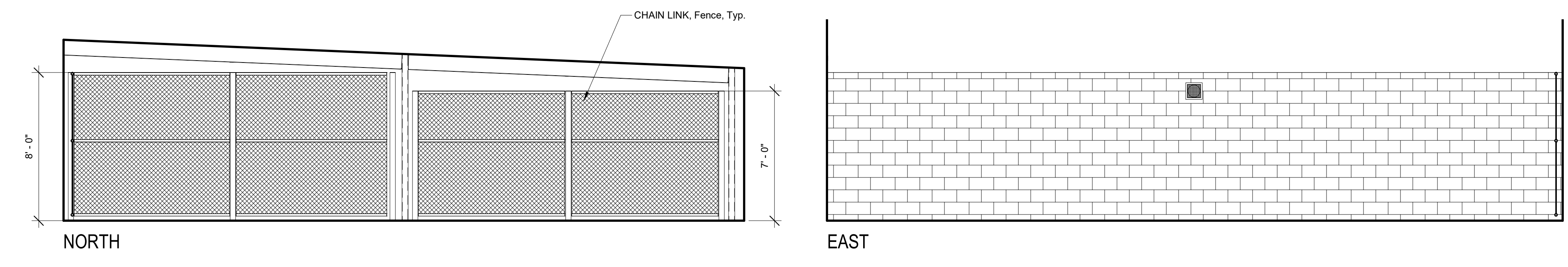
SYMBOLS

	Cabinet Group No. Refer to Modular Casework Schedule and Lab Casework Schedule.
	FIRE PROTECTION SPECIALTIES, Fire Extinguisher Cabinet, Top of Cabinet @ +5'-0". Unless Noted Otherwise, Provide Fire Rated Cabinet at Rated Walls. See Detail N11 X/A602
	WALL COVERINGS, FRP Panels E14 X/A607
	WALL COVERINGS, Solid Surfacing A14 X/A607
	ROUGH CARPENTRY, Plywood Sheathing, AC
	PLUMBING, Access Door, See Plumbing Drawings
	ELECTRICAL, AV/Speaker @ +7'-6" to center of device, Unless Noted Otherwise.
	ELECTRICAL, Clock/Speaker @ +8'-6" to center of device, Unless Noted Otherwise.
	ELECTRICAL, Outlet
	ELECTRICAL, Light Switch
	ELECTRICAL, Fire Alarm Device
	ELECTRICAL, Volume Control
	ELECTRICAL, Television Outlet
	MECHANICAL, Thermostat
	PLUMBING, Hose Bib
	ELECTRICAL, Data Outlet
	ELECTRICAL, Microphone Outlet
	ELECTRICAL, Intrusion Sensor
	ELECTRICAL, Motion Sensor
	ELECTRICAL, Telephone Outlet
	ELECTRICAL, HDMI

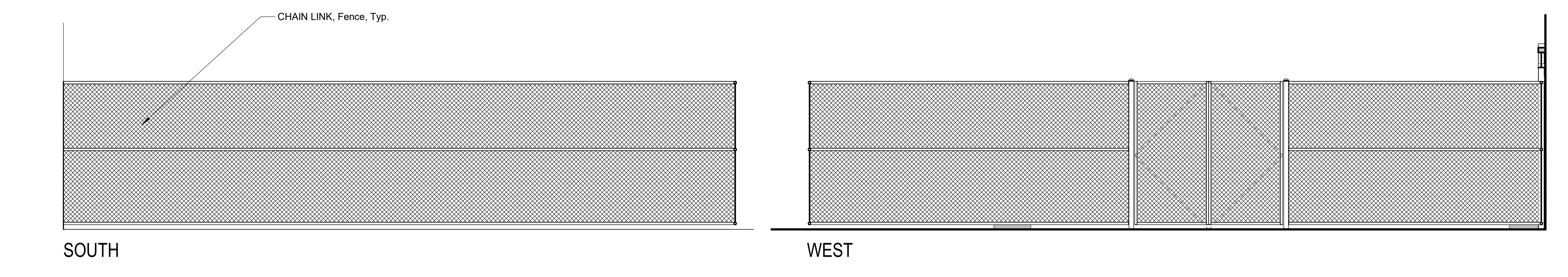
ABBREVIATIONS

FEC	FIRE PROTECTION SPECIALTIES, Fire Extinguisher and Cabinet, Type FEC-1, Unless Noted Otherwise.
Gl.	Glass
KS	Knee Space
OH	Opposite Hand
Typ.	Typical
Sim.	Similar
Dia.	Diameter
UNO	Unless Noted Otherwise

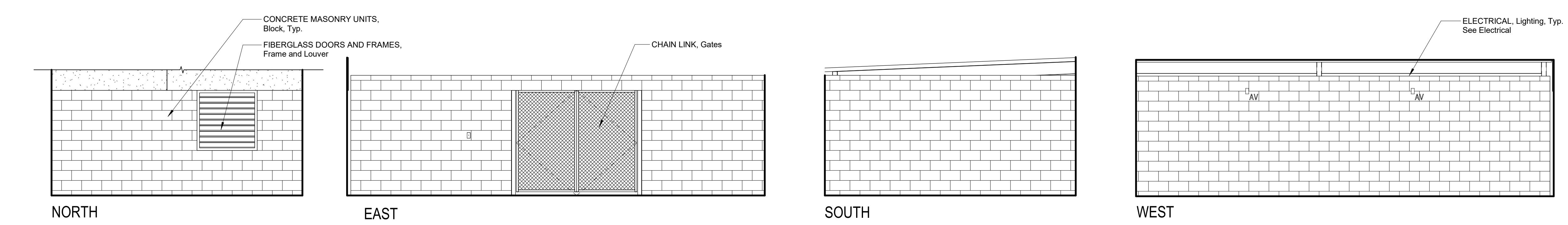
- ### NOTES
- All Details, Materials and Finishes Shall be Considered Typical for All Similar Conditions, Unless Noted Otherwise.
 - Refer to Plumbing, Mechanical, Telecommunications, Food Service, and Electrical for All Wall Mounted Devices and Coordinate Location and Heights with Architectural (ie. Casework, Equipment, etc.)
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 - Provide backing at all TOILET ACCESSORIES, TOILET PARTITIONS, and IDENTIFYING DEVICES per Detail N14 X/A607 Unless Noted Otherwise.
 - Provide Backing for TOILET ACCESSORIES, Grab Bars per Detail J11 X/A607
 - Locate and mount IDENTIFYING DEVICES per Detail E1 X/A607 Unless Noted Otherwise.
 - Provide backing at all MODULAR CASEWORK per Detail N14 X/A607
 - WALL COVERINGS, FRP Panels, See Detail E14 X/A607
 - GYPSUM BOARD, Metal Accessories, See Detail J14 X/A607



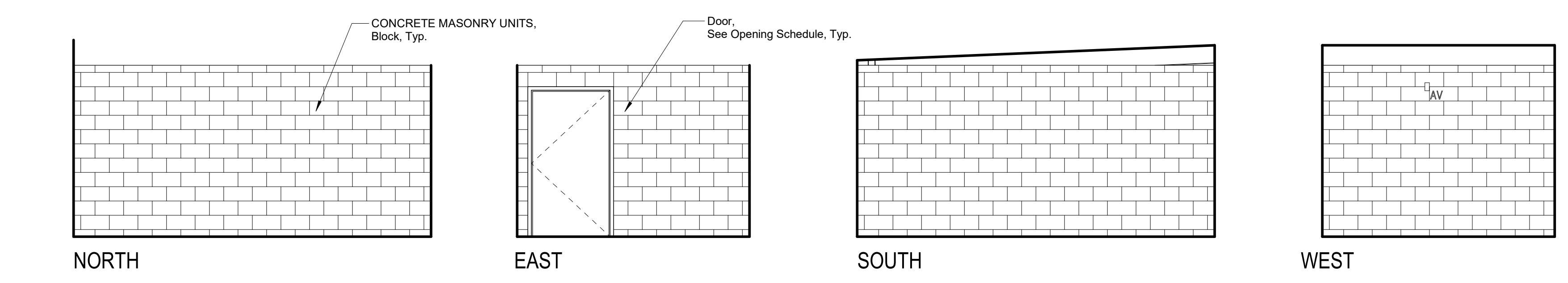
P404a Storage



P404a Storage
(Continued)



P410 Pool Equipment Enclosure



P420 Gas Meter Enclosure

F18	Interior Elevation legend
No Scale	

Mission Oak HS Aquatic Complex
Tulare Joint Union High School District
Tulare, CA 93274

BUILDING P
INTERIOR ELEVATIONS - ROOMS P404e, P410 & P420
Drawing

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Architect

No.	Revision/Submission	Date
1	REVISION_01	05/31/2023

Revision

Designed By: MF Copyright 2022 Darden Architects
Scale: 1/4" = 1'-0" Drawn By: KT
Project Number: 2180 Checked By: -
Date: 03/28/2023 Reviewed By: MF

P/A606

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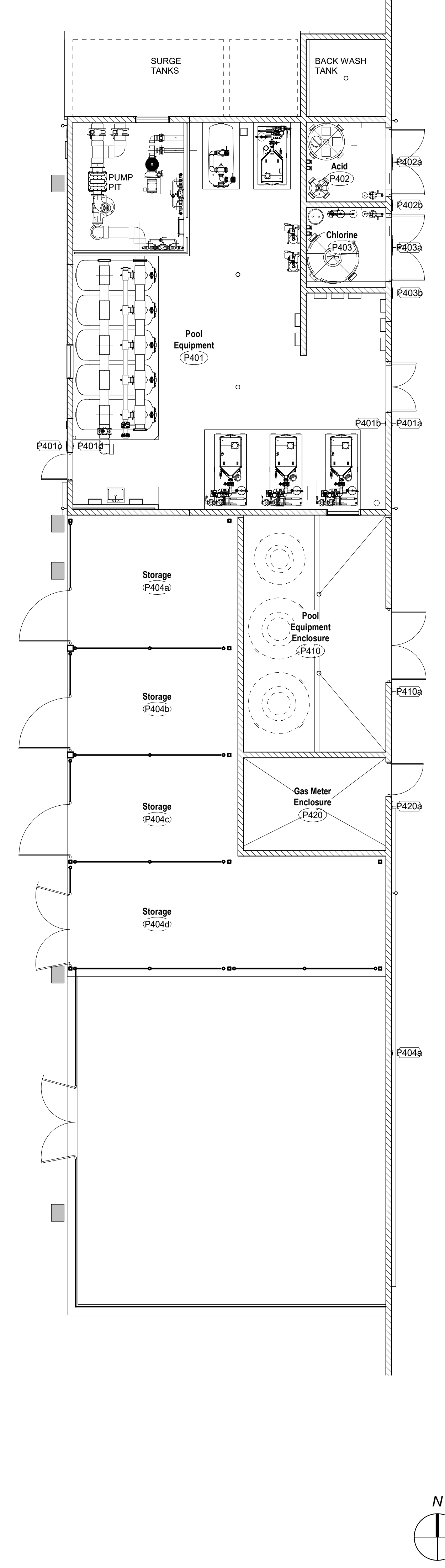
CONSTRUCTION SET

APPROVED
BY THE STATE ARCHITECT
APP: 02-120251, INC.
REVIEWED FOR
SS ID: PLS ID: ACS ID
DATE: 08/28/2023

Signage Schedule									
Building	Sign Mark	Sign Type	Sign Material	Sign Copy Line 1	Sign Copy Line 2	Sign Copy Line 3	Mtg Height	Mtg Cond	Remarks
P2	P203a	5b	EM	ELECTRICAL	N/A	N/A	4' - 11"	3	-
P2	P202a	5b	EM	FIRE RISER	N/A	N/A	4' - 11"	3	-
P2	P201aa	6a	EM	STORAGE	-	N/A	5' - 0"	3	-
P3	P302b	2a	EM	BOYS	N/A	-	4' - 11"	3	-
P3	P304a	2a	EM	GIRLS	N/A	-	4' - 11"	3	-
P3	P304d	2a	EM	GIRLS	N/A	-	4' - 11"	3	-
P3	P302c	2a	EM	BOYS	N/A	-	4' - 11"	3	-
P3	P304b	2b	EM	GIRLS	N/A	-	4' - 11"	5	-
P3	P304c	2b	EM	GIRLS	N/A	-	4' - 11"	5	-
P3	P302a	2c	EM	BOYS	N/A	-	4' - 11"	5	-
P3	P302d	2c	EM	BOYS	N/A	-	4' - 11"	5	-
P3	P301a	5a	EM	BOYS SHOWER	N/A	-	4' - 11"	3	-
P3	P305a	5a	EM	GIRLS SHOWER	N/A	-	4' - 11"	3	-
P3	P306a	5b	EM	CUSTODIAL	N/A	-	4' - 11"	3	-
P3	P303a	5b	EM	FIRE RISER	N/A	-	4' - 11"	3	-
P4	P402b	5b	EM	ACID	-	-	4' - 11"	3	-
P4	P403b	5b	EM	CHLORINE	-	-	4' - 11"	3	-
P4	P401a	5b	EM	POOL EQUIPMENT	-	-	4' - 11"	3	-
P4	P410a	5b	EM	COOLING TOWERS	-	-	4' - 11"	3	-
P4	P420a	5b	EM	GAS METER	-	-	4' - 11"	3	-
P4	P401c	5b	EM	POOL EQUIPMENT	-	-	4' - 11"	3	-
P4	P401b	6a	EM	EXIT	N/A	N/A	5' - 0"	3	-
P4	P401d	6a	EM	EXIT	N/A	N/A	5' - 0"	3	-
P4	P403a	11a	A	0	COR	3	8' - 2"	3	See A1-X/A602
P4	P402a	11a	A	1	COR	-	8' - 2"	3	See A1-X/A602
P4	P404a	12	A	PASSENGER LOADING ONLY	N/A	-	4' - 11"	3	See J4-SD/A303

Signage Schedule Add Alternate									
Building	Sign Mark	Sign Type	Sign Material	Sign Copy Line 1	Sign Copy Line 2	Sign Copy Line 3	Mtg Height	Mtg Cond	Remarks
P2	P205a	2a	EM	RESTROOM	SHOWER	-	4' - 11"	3	-
P2	P205b	2d	EM	UNISEX SYM.	-	-	4' - 11"	5	-
P2	P203a	5b	EM	ELECTRICAL	N/A	N/A	4' - 11"	3	-
P2	P202a	5b	EM	FIRE RISER	N/A	N/A	4' - 11"	3	-
P2	P204a	5b	EM	SNACK BAR	-	-	4' - 11"	3	-
P2	P205aa	6a	EM	CUSTODIAL	-	N/A	5' - 0"	3	-
P2	P201aa	6a	EM	STORAGE	-	N/A	5' - 0"	3	-

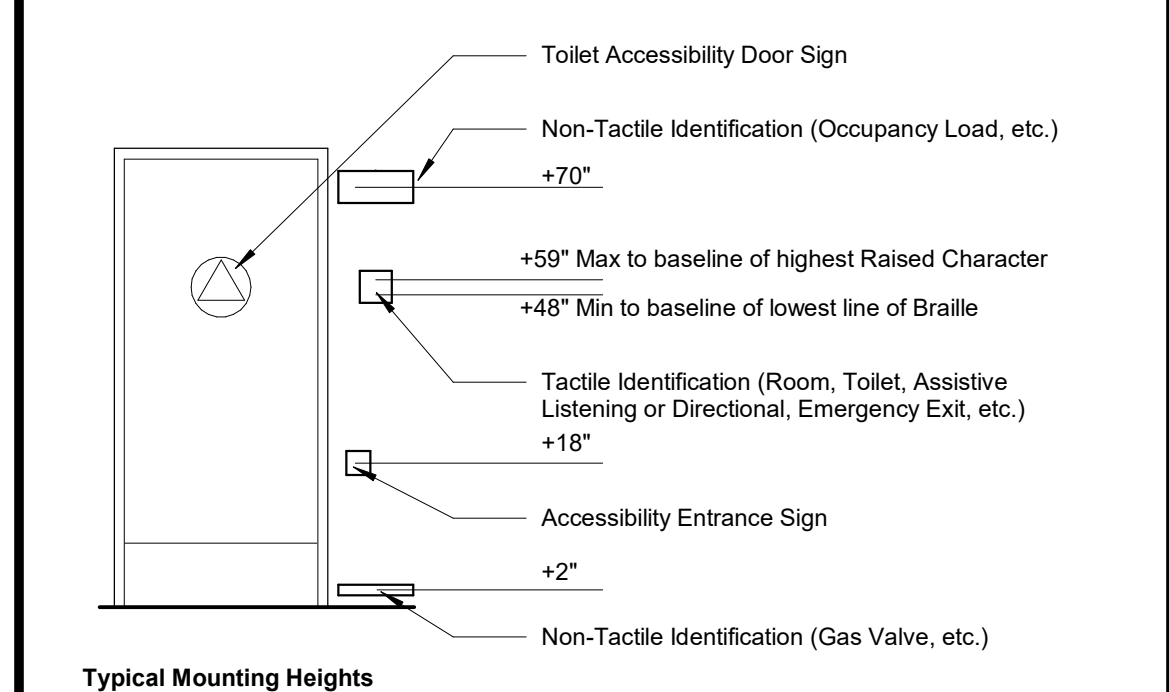
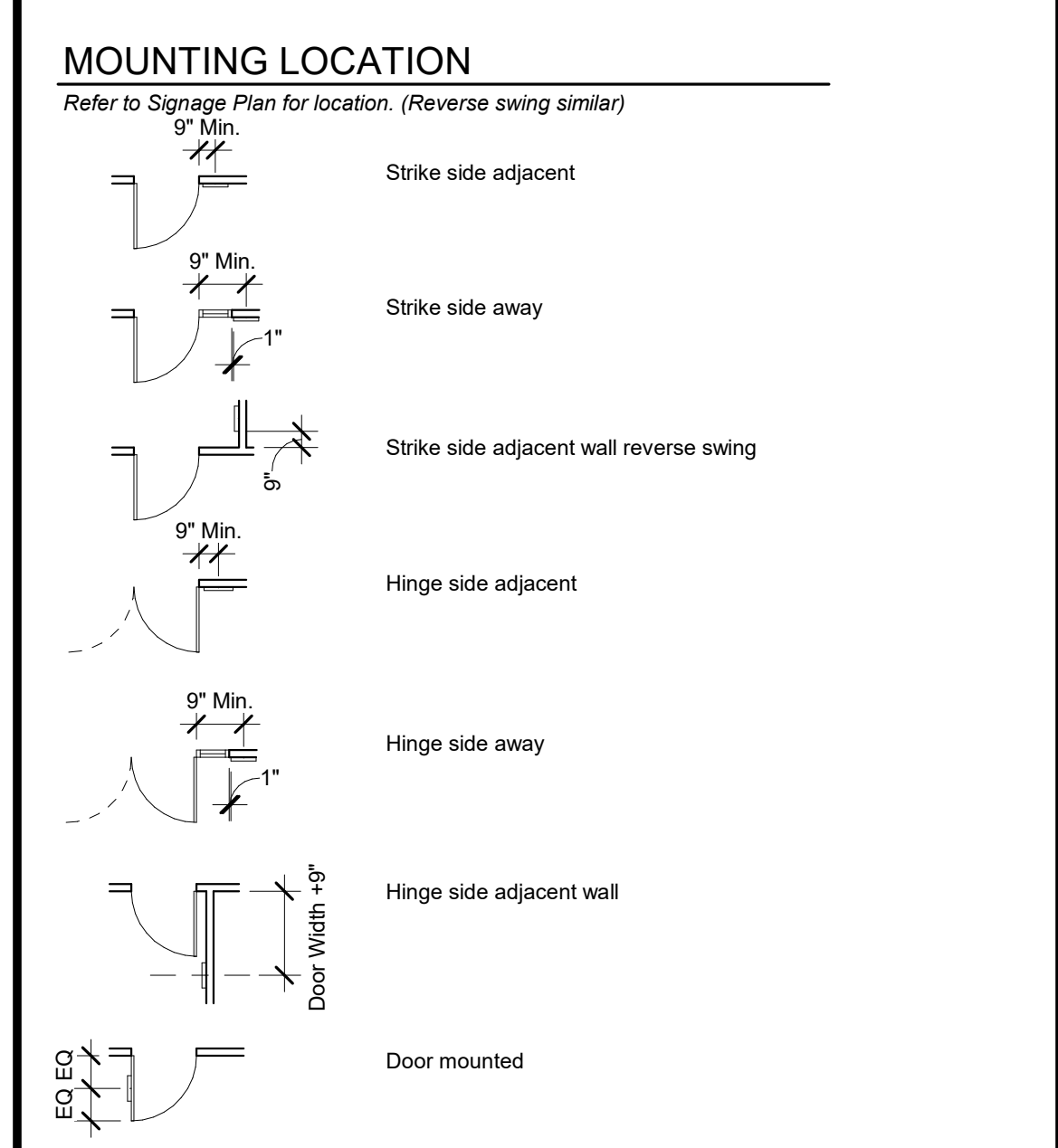
J7 Signage Schedule
No Scale Refer to G18 for Schedule Legend



DSA File No.: 54-H11

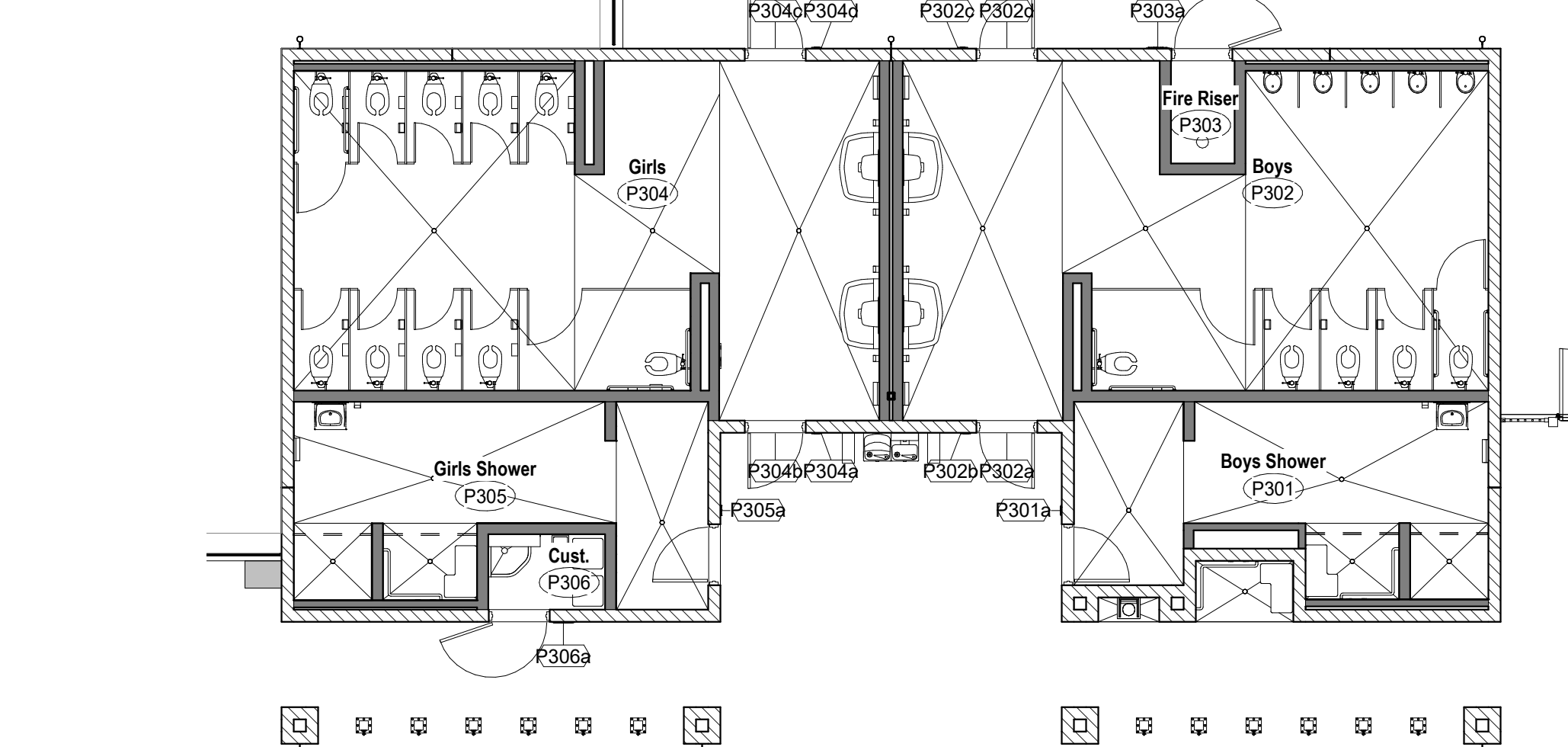
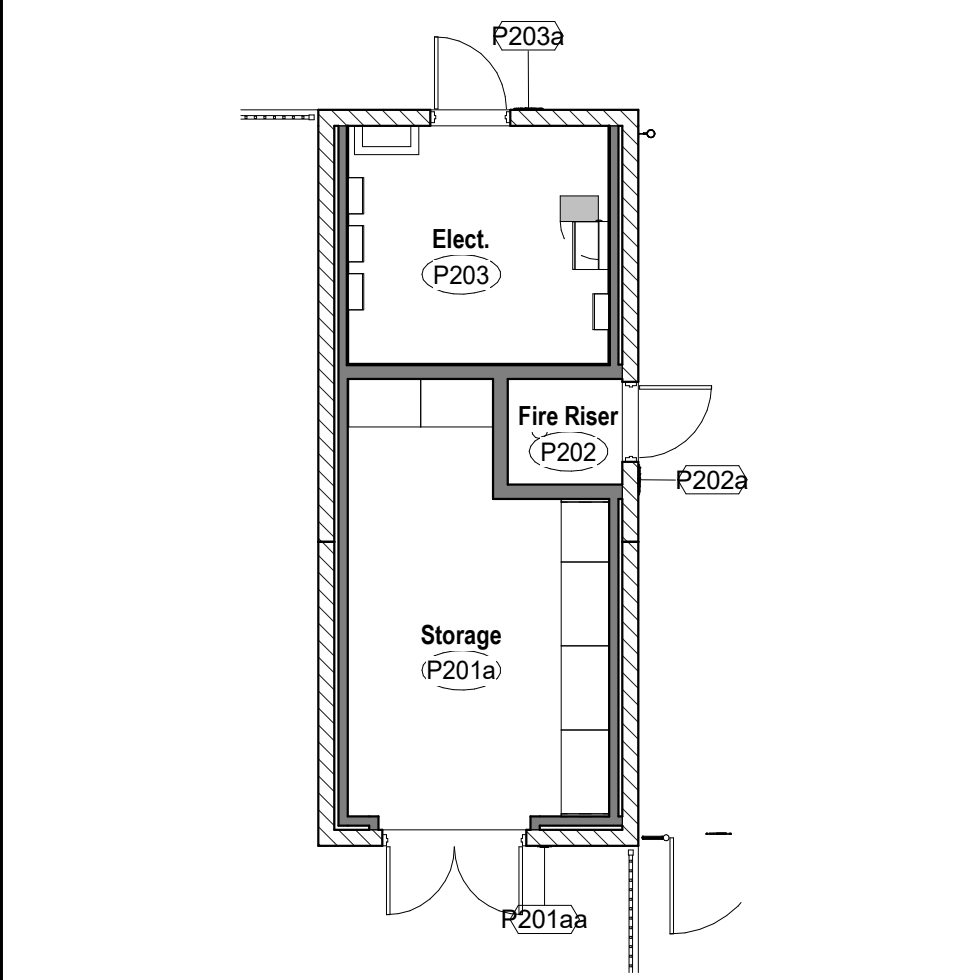
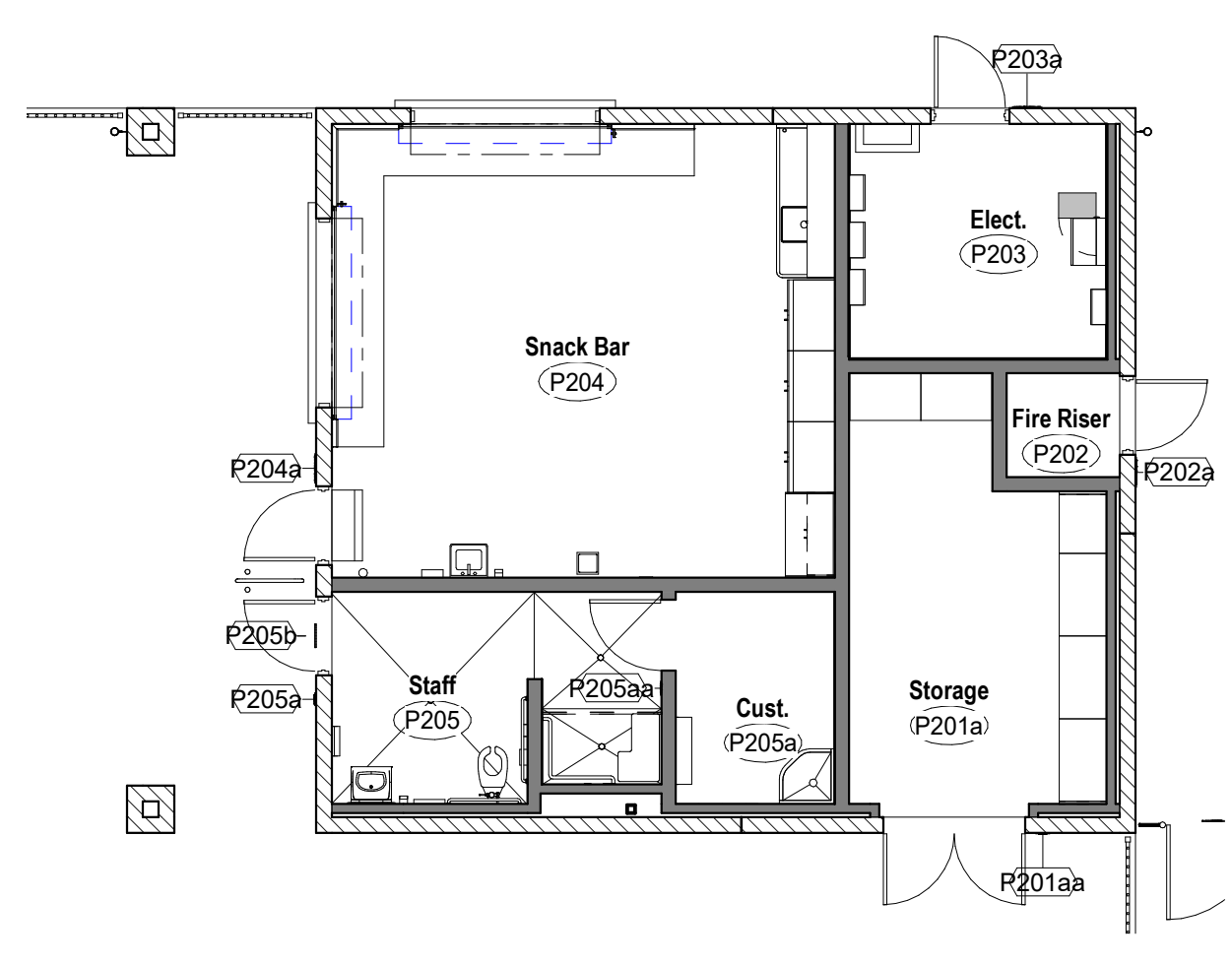
DSA Application No.: 02-120251

Agency Approval	
MOUNTING CONDITION	SIGN MATERIAL
1. Metal Stud Framed Wall	A = Acrylic
2. Wood Stud Framed Wall	EM = Exterior Metal
3. Concrete and Concrete Masonry	IM = Interior Metal
4. Glass	EP = Exterior Plastic
5. Door	IP = Interior Plastic
6. See Plan	D = Decal



- NOTES**
- Refer to Specification Section IDENTIFYING DEVICES.
 - Refer to Plan for Mounting Location.
 - Verify Sign Copy with Owner prior to fabrication, "-" indicates a blank space.
 - For IDENTIFYING DEVICES, Signage Dimensions, refer to detail E1 X/A601.

G18 Signage Schedule Legend
No Scale



A7 Signage Floor Plan - Building P2
1/8" = 1'-0"

A13 Signage Floor Plan - Building P4
1/8" = 1'-0"

A1 Signage Floor Plan - Building P2
1/8" = 1'-0"
ADD ALTERNATE

A4 Signage Floor Plan - Building P2
1/8" = 1'-0"

Mission Oak HS Aquatic Complex
Tulare Joint Union High School District
Tulare, CA 93274 Project

BUILDING P2, P3 & P4
SIGNAGE PLANS AND SCHEDULE
Drawing

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Architect

No.	Revision/Submission	Date
1	REVISION_01	05/31/2023

Revision

Designed By: MF	Copyright 2022 Darden Architects
Scale: 1/8" = 1'-0"	Drawn By: FM
Project Number: 2180	Checked By: -
Date: 03/28/2023	Reviewed By: MF

P/A701

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54-H11

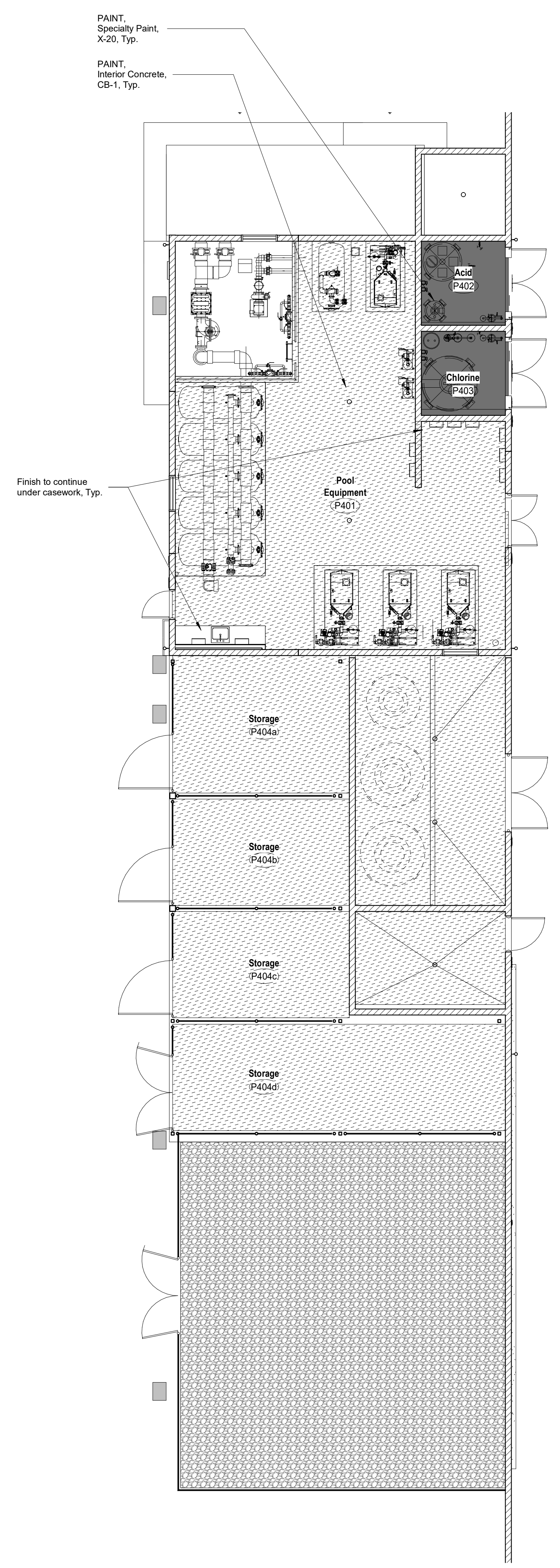
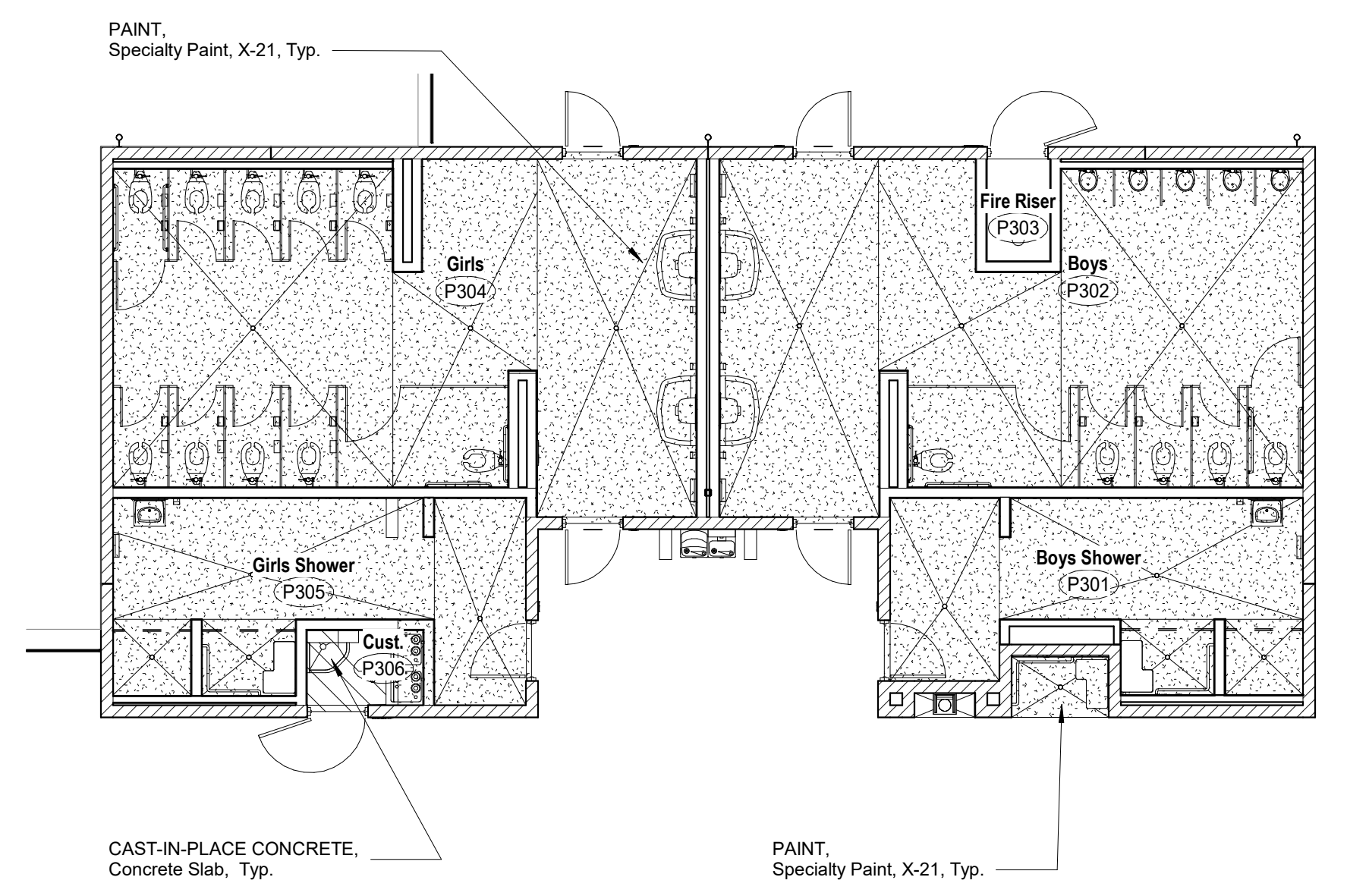
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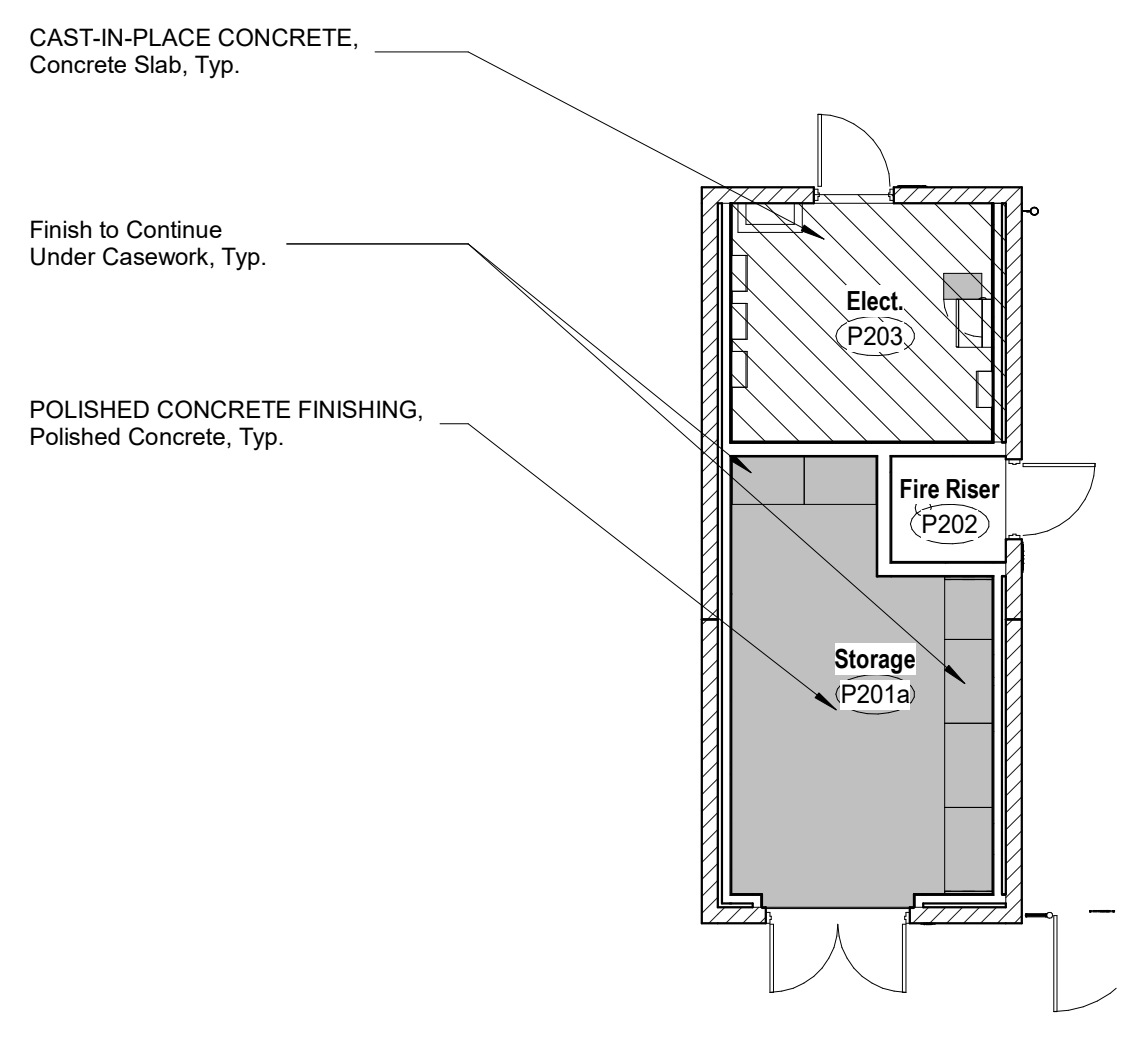
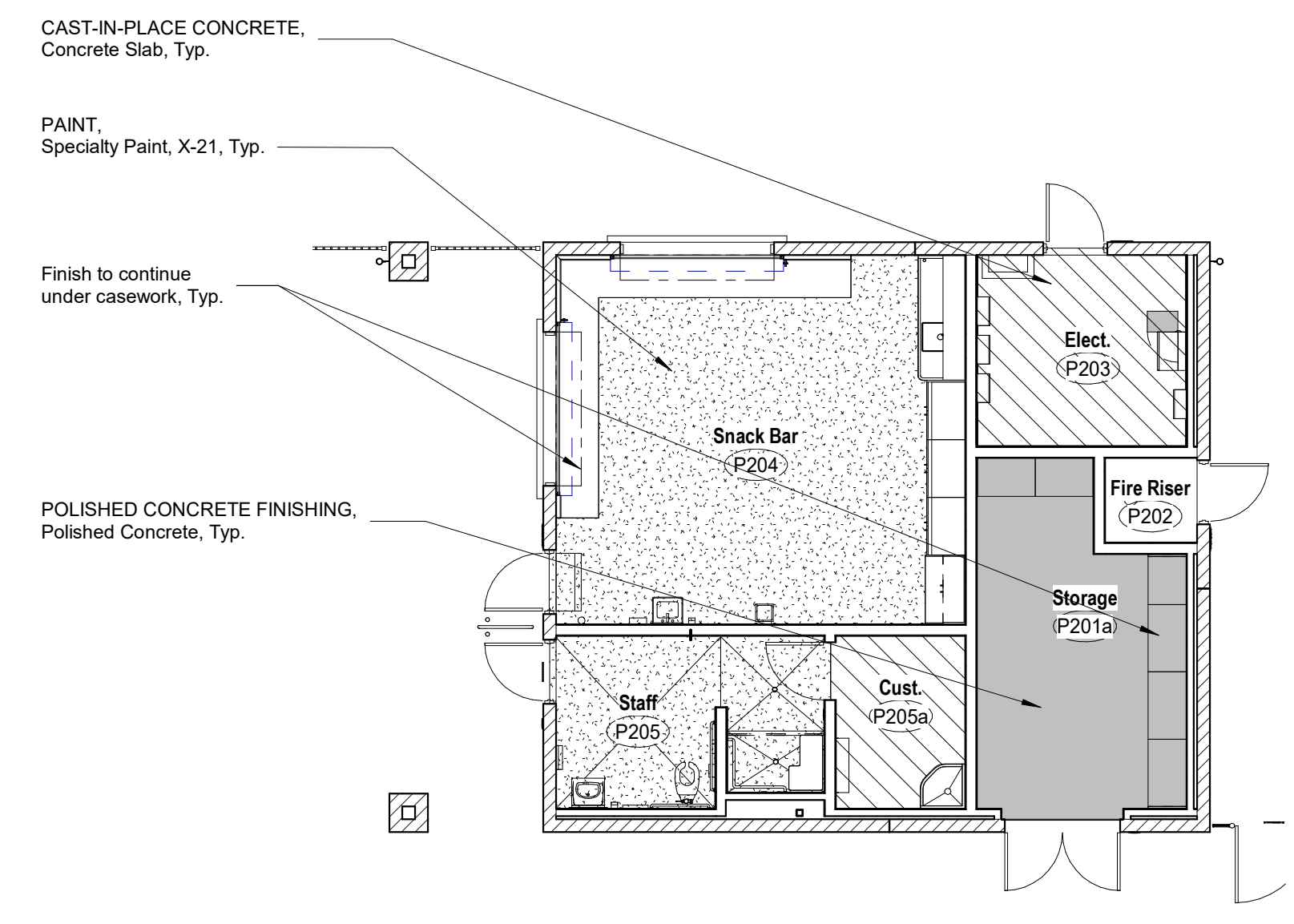
- PAINT, Specialty Paint, X-20
- PAINT, Specialty Paint, X-21
- PAINT, Interior Concrete, CB-1
- PAINT, Gypsum Board, P-3
- POLISHED CONCRETE FINISHING, Polished Concrete
- CAST-IN-PLACE CONCRETE, Concrete Slab

Note:
1. Refer to Appendix B - Interior Color Schedule in Specifications for color.
2. Refer to Interior Finish Schedule for designated system.
3. Refer to specification for product information.
4. Provide integral cove base for PAINT, Specialty Paint, X-20 and X-21, unless otherwise noted.



K7 Floor Finish Plan - Building P3
1/8" = 1'-0"

K18 Floor Finish Legend



A7 Floor Finish Plan - Building P2
1/8" = 1'-0"

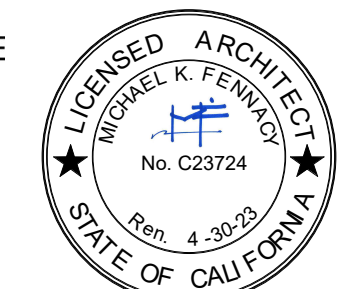
A13 Floor Finish Plan - Building P4
1/8" = 1'-0"

A1 Floor Finish Plan - Building P2
1/8" = 1'-0"
ADD ALTERNATE

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Tulare Joint Union High School District
Tulare, CA 93274

BUILDING P2, P3 & P4
INTERIOR DESIGN PLANS

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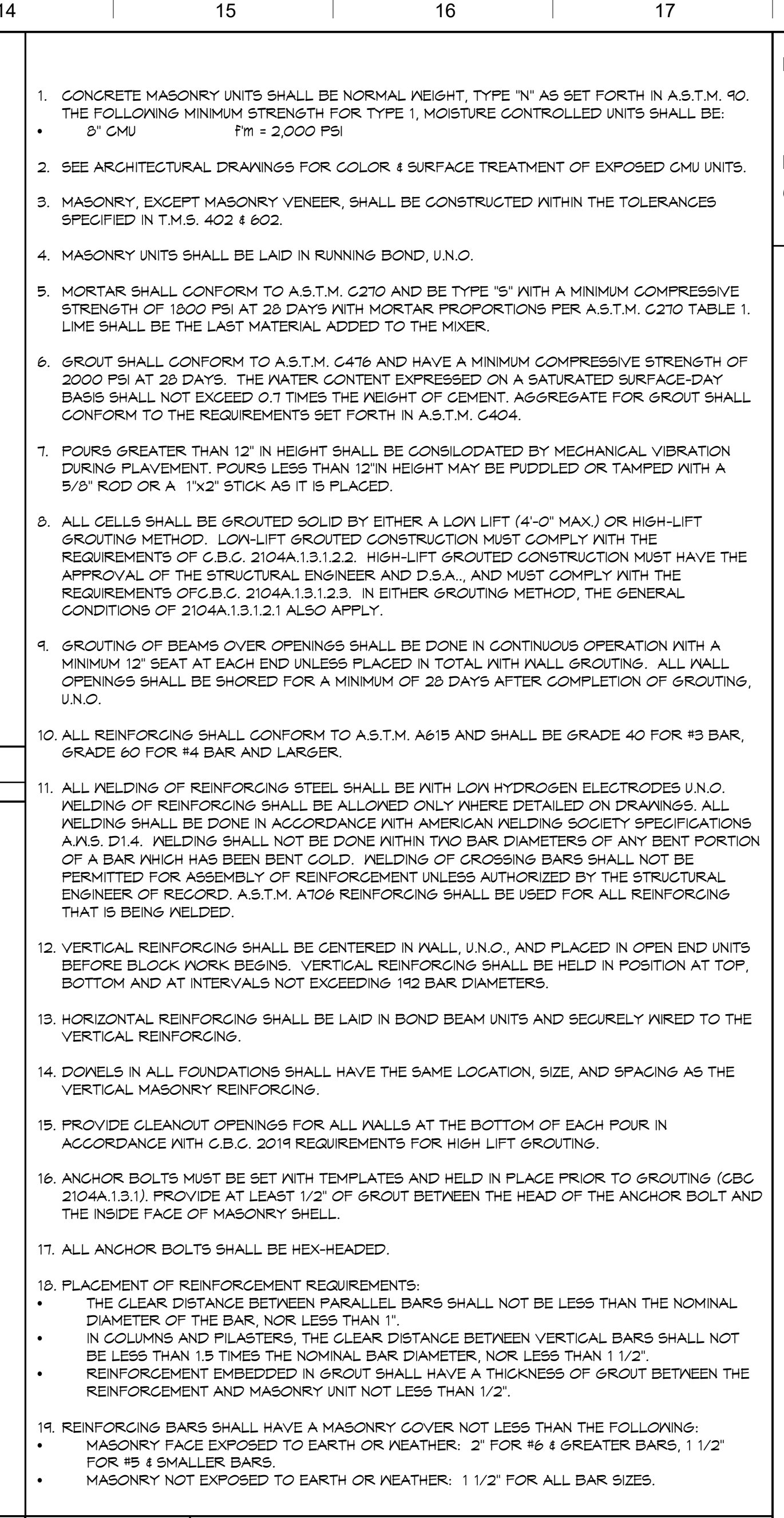
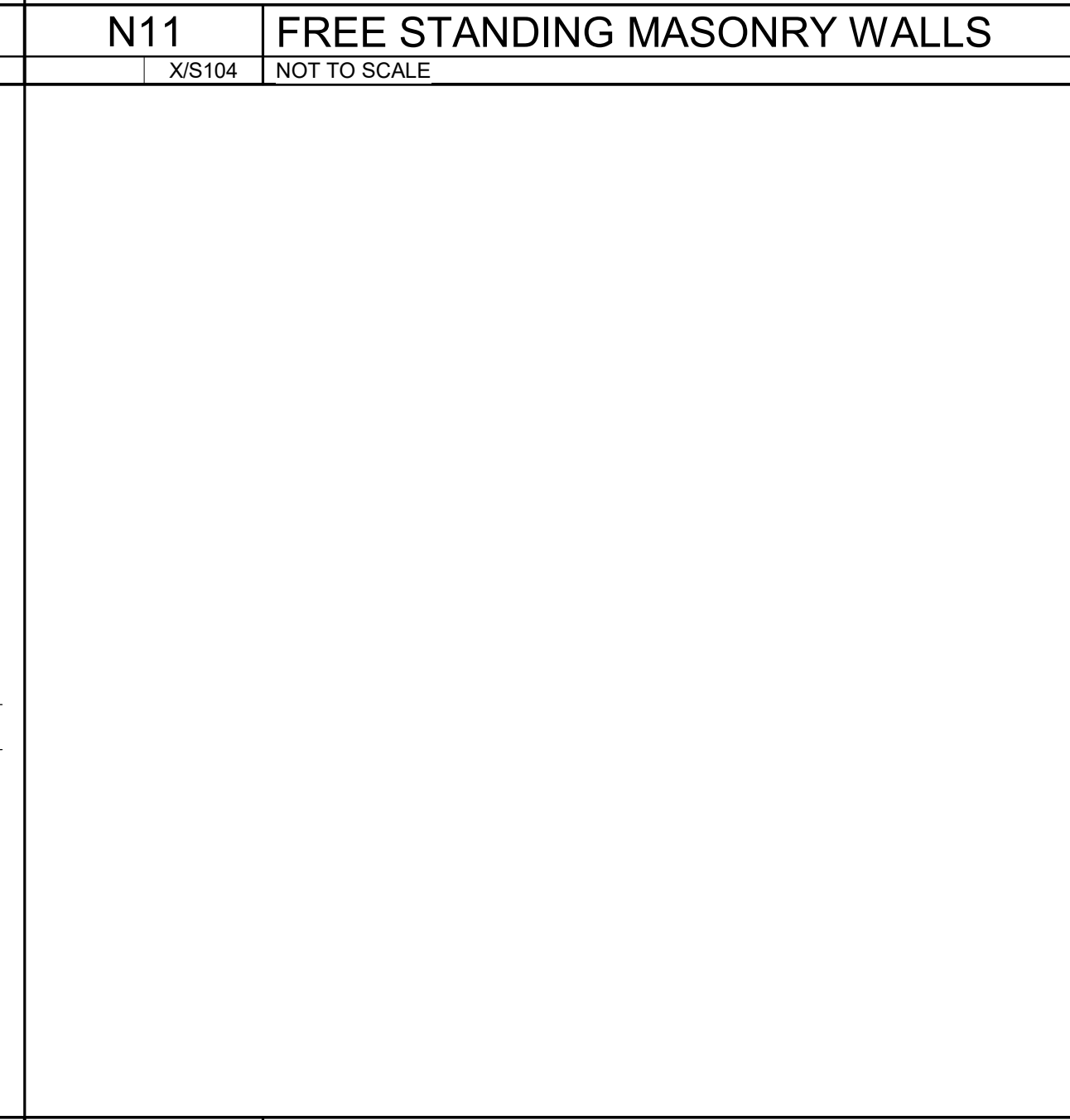
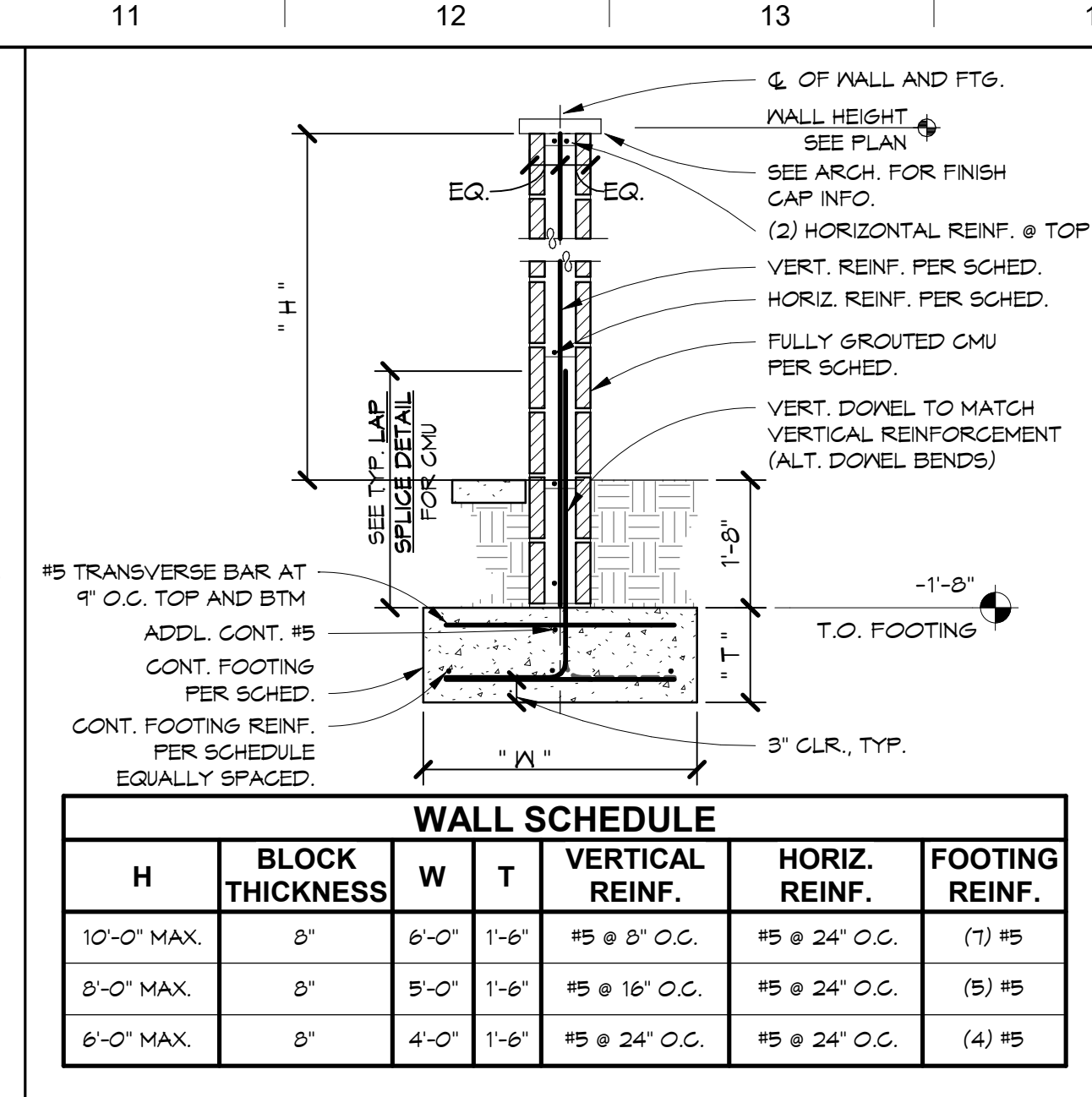
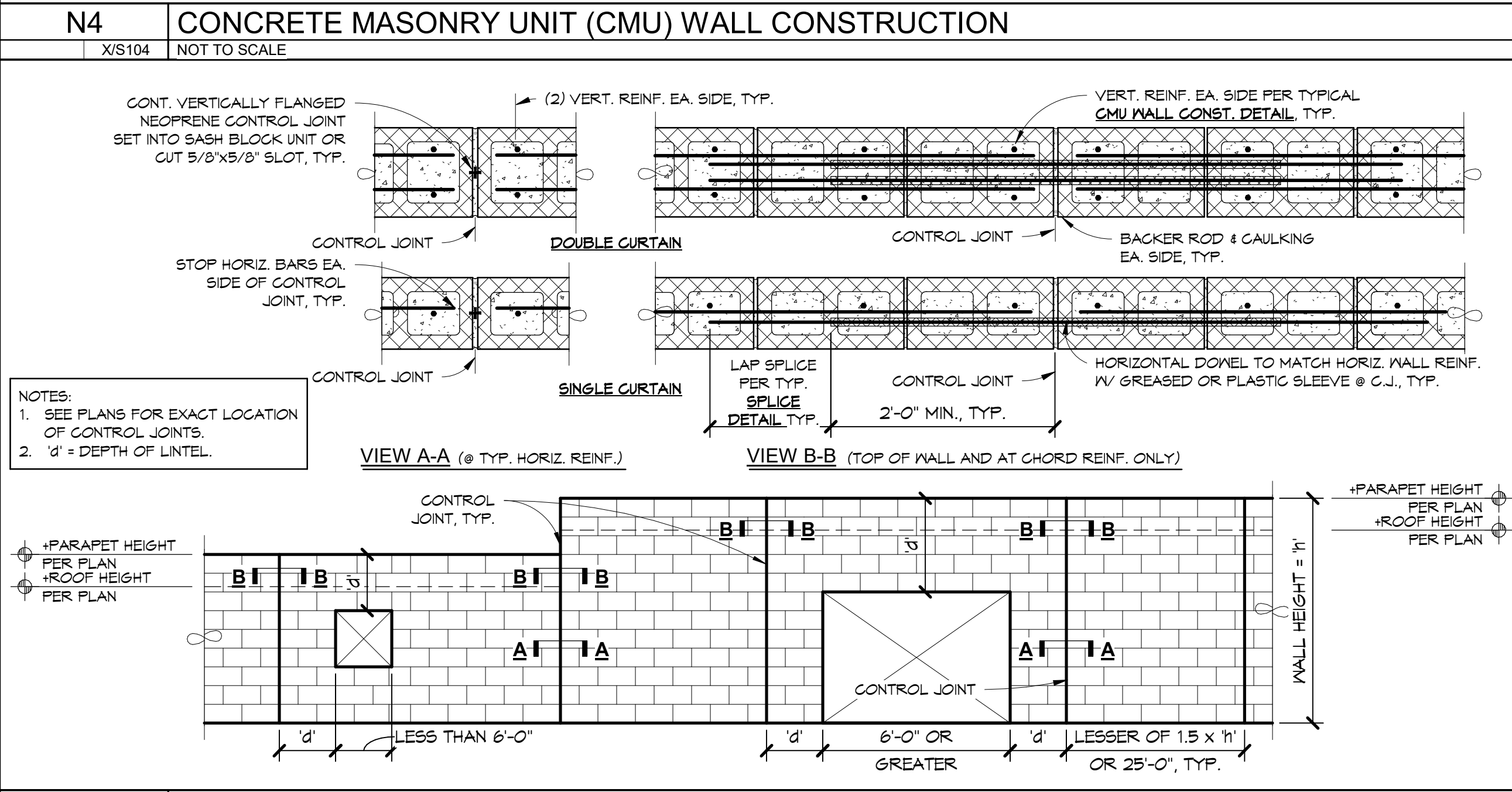
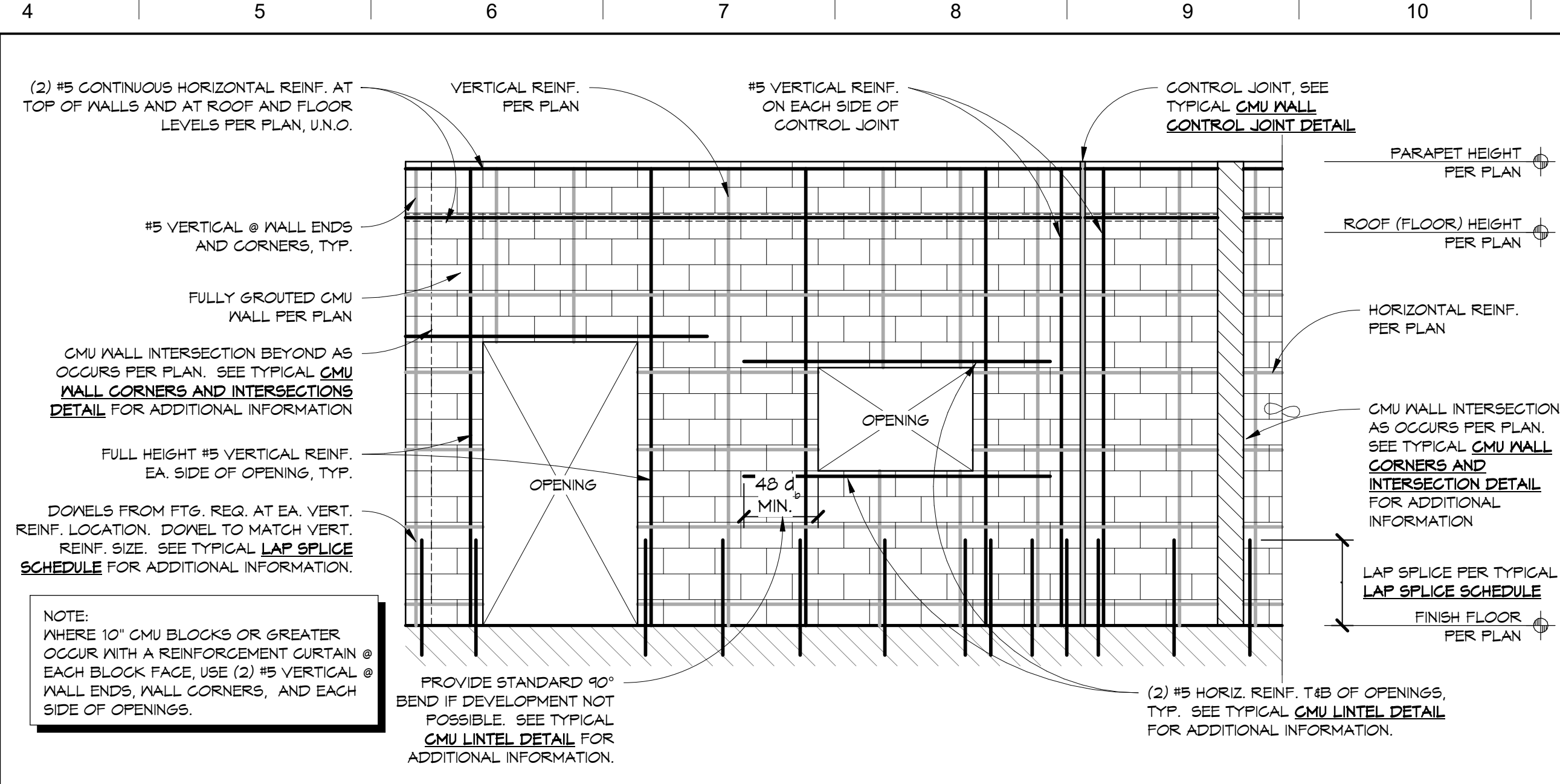
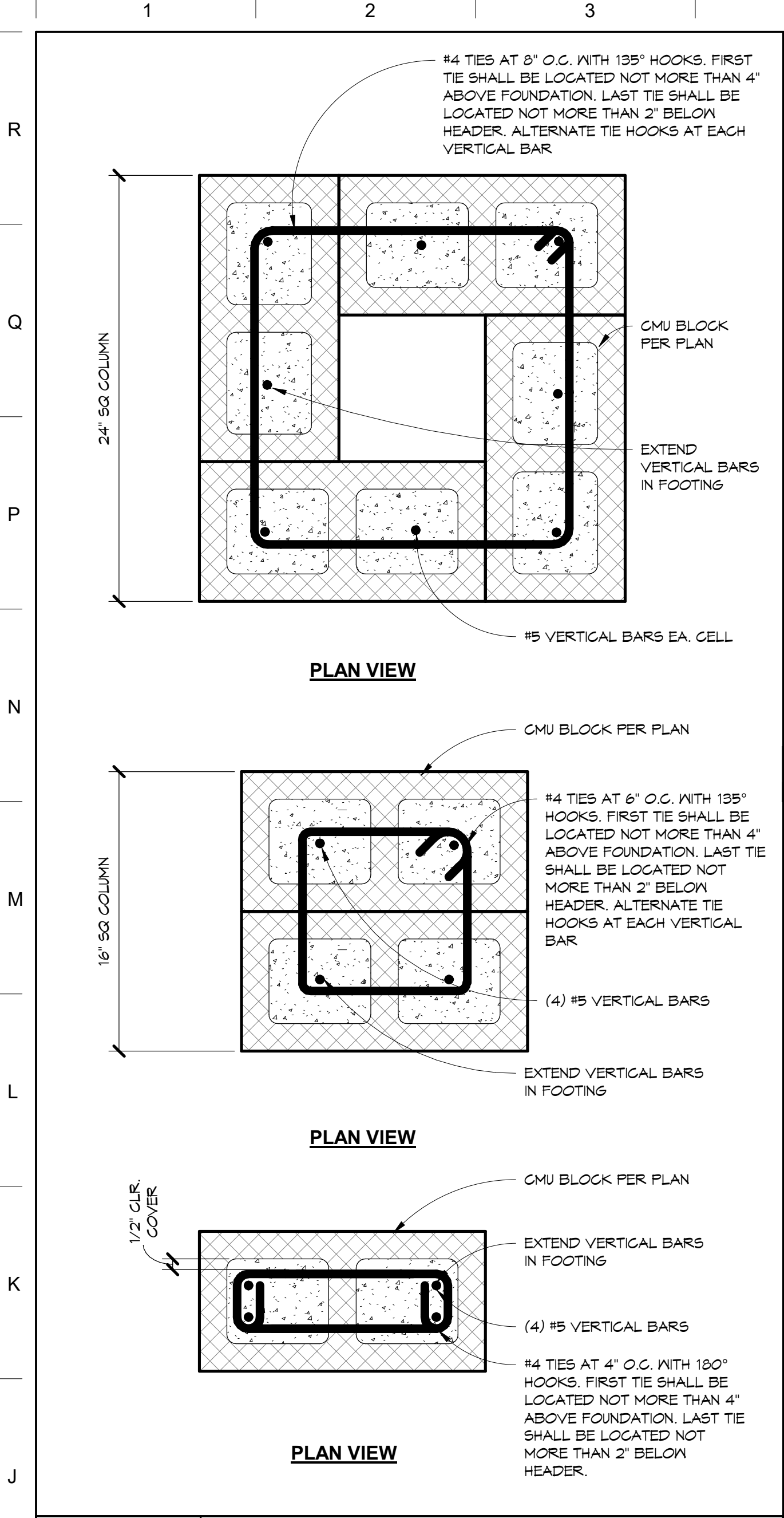
Revision
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Project Number: 2180
Date: 03/28/2023

Drawn By: PV
Checked By: -
Reviewed By: MF

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DSA Application No.: 02-120251

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Tulare Joint Union High School District
Tulare, CA 93274

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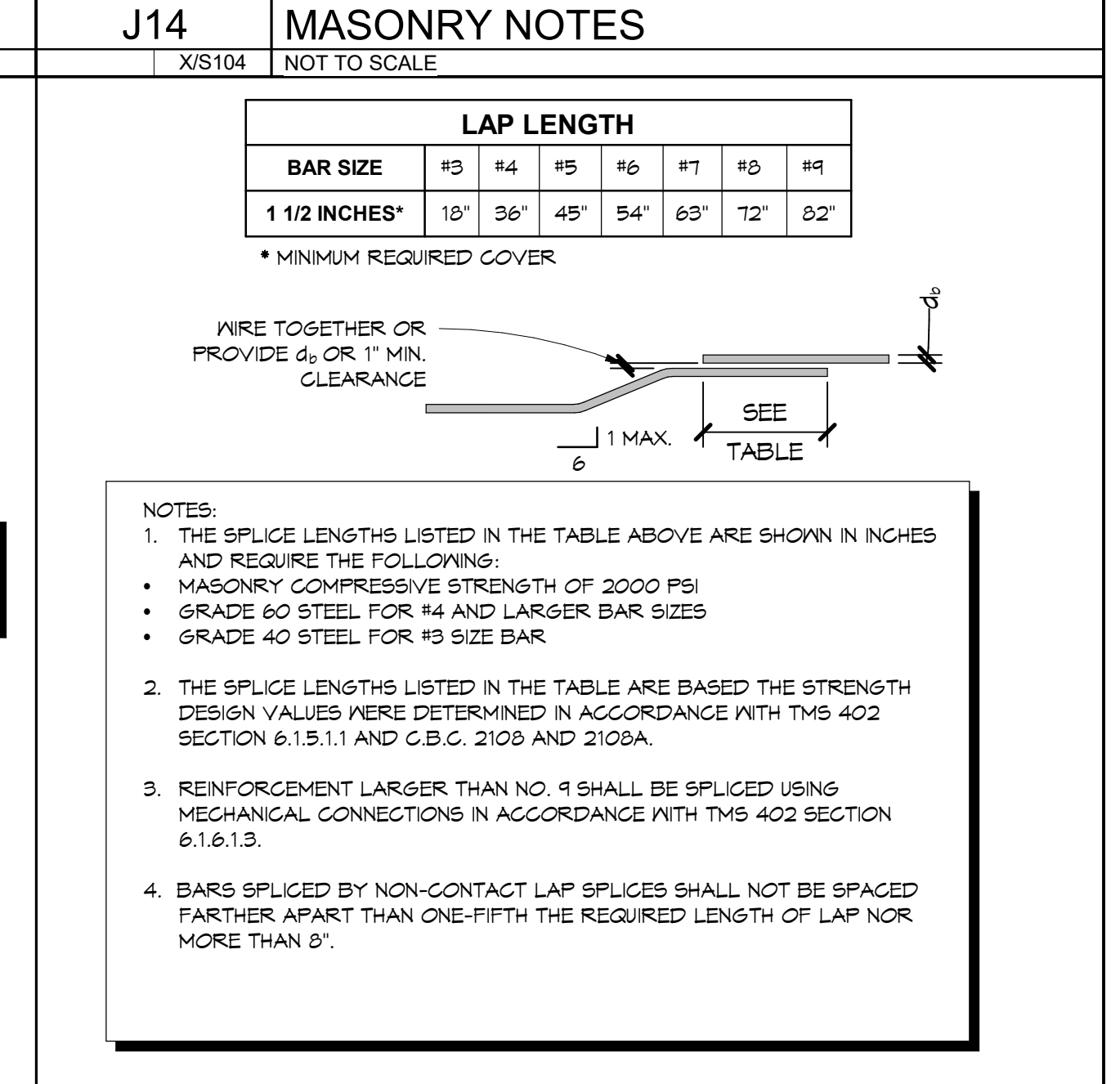
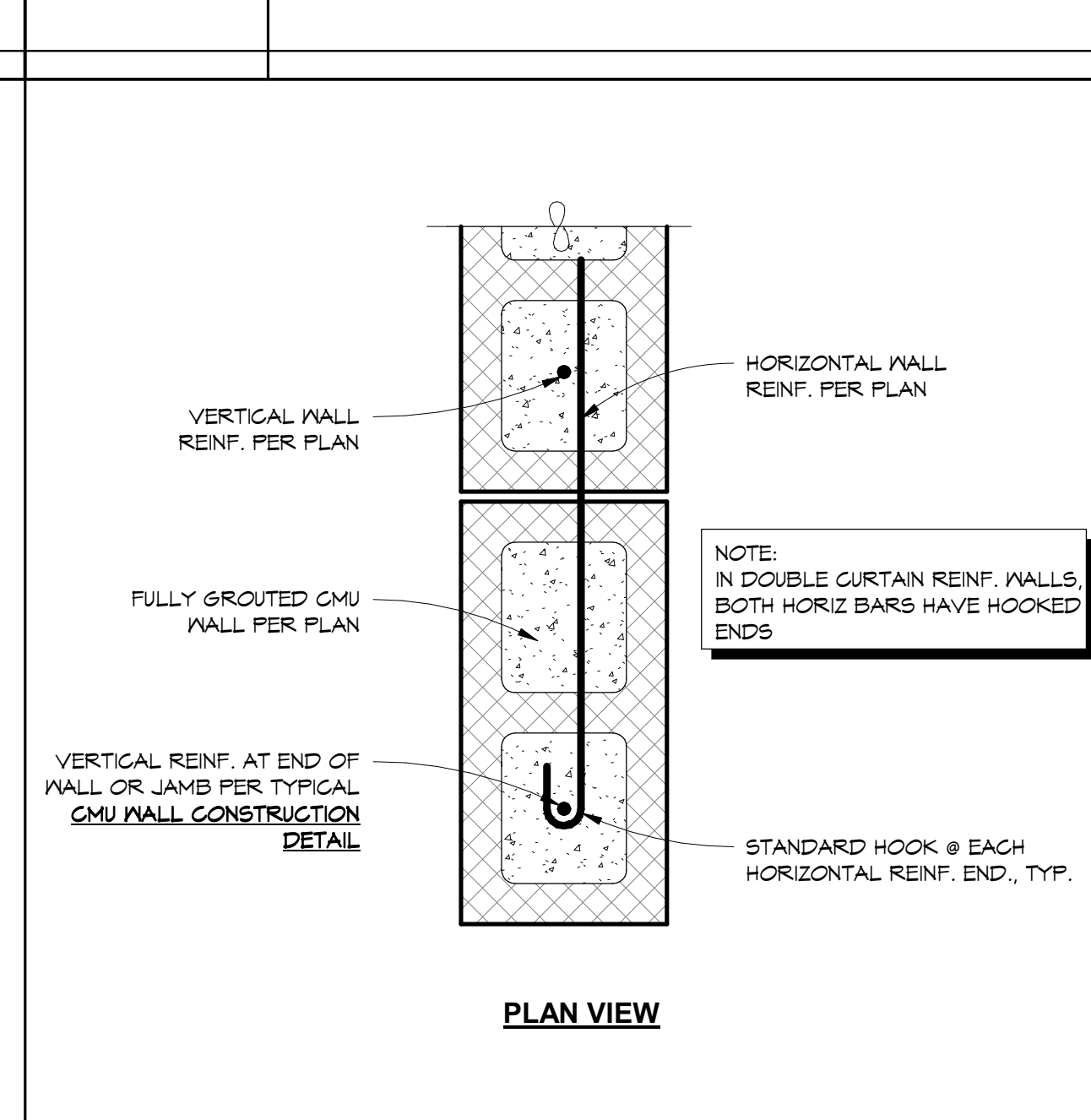
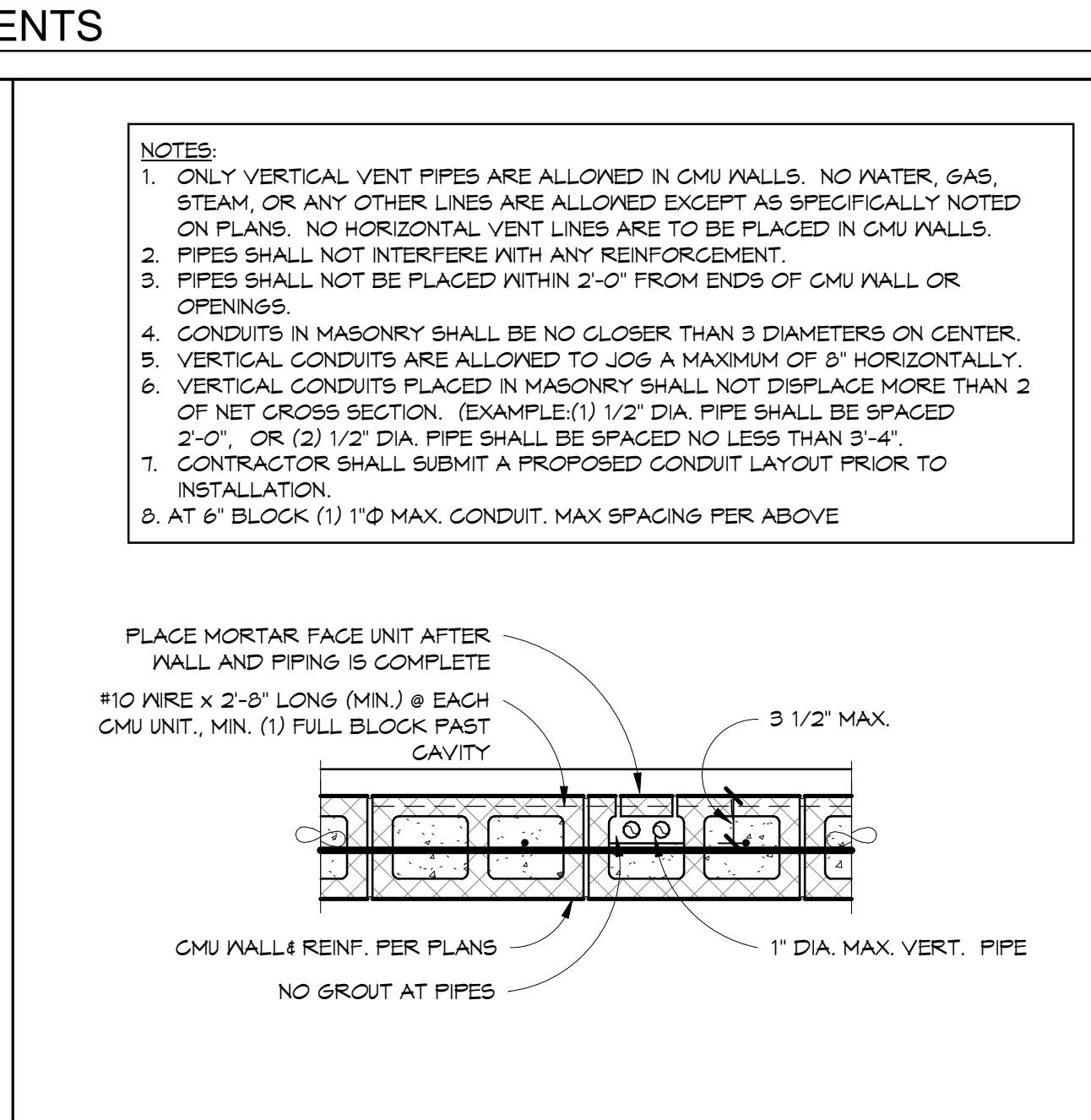
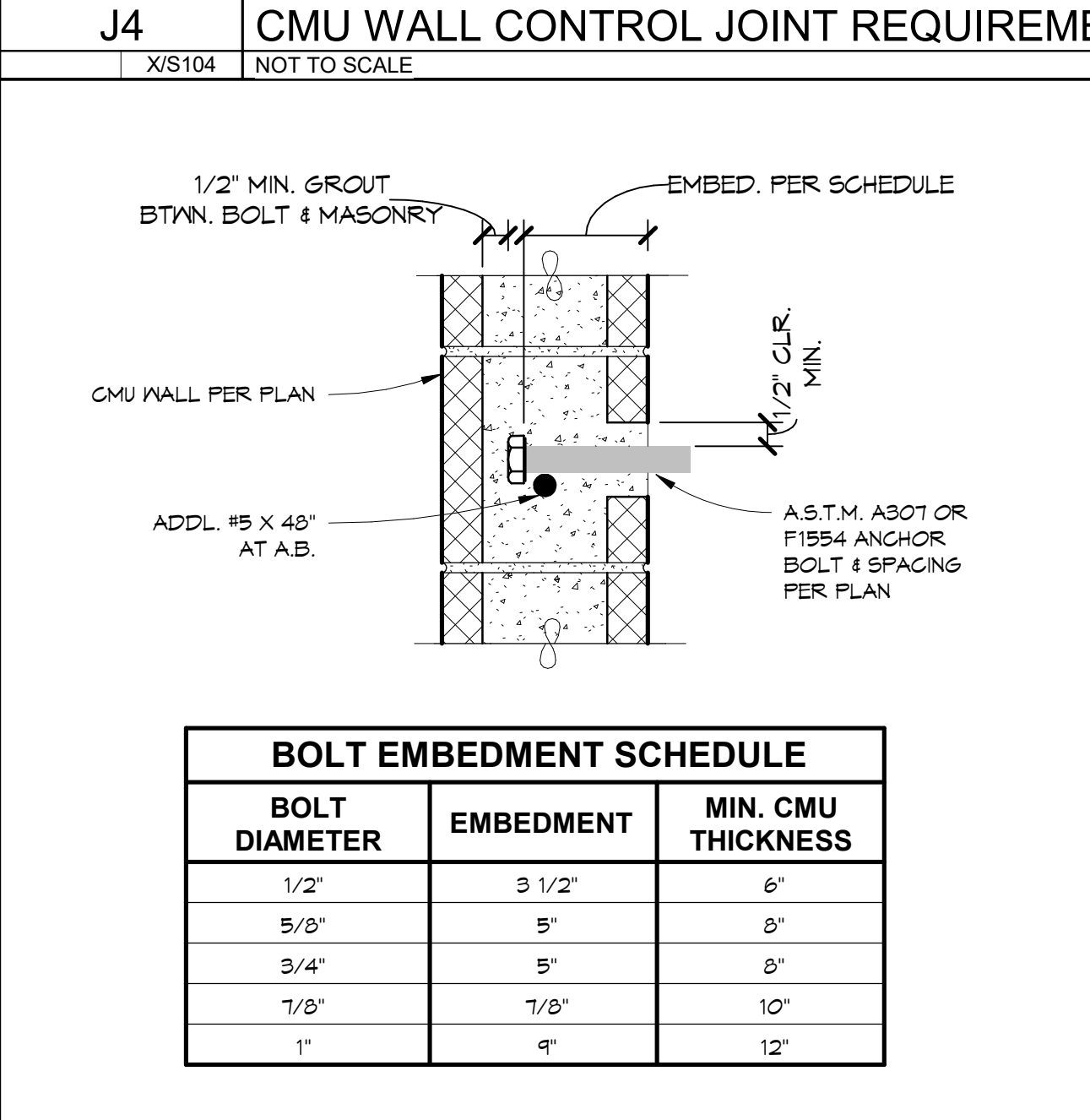
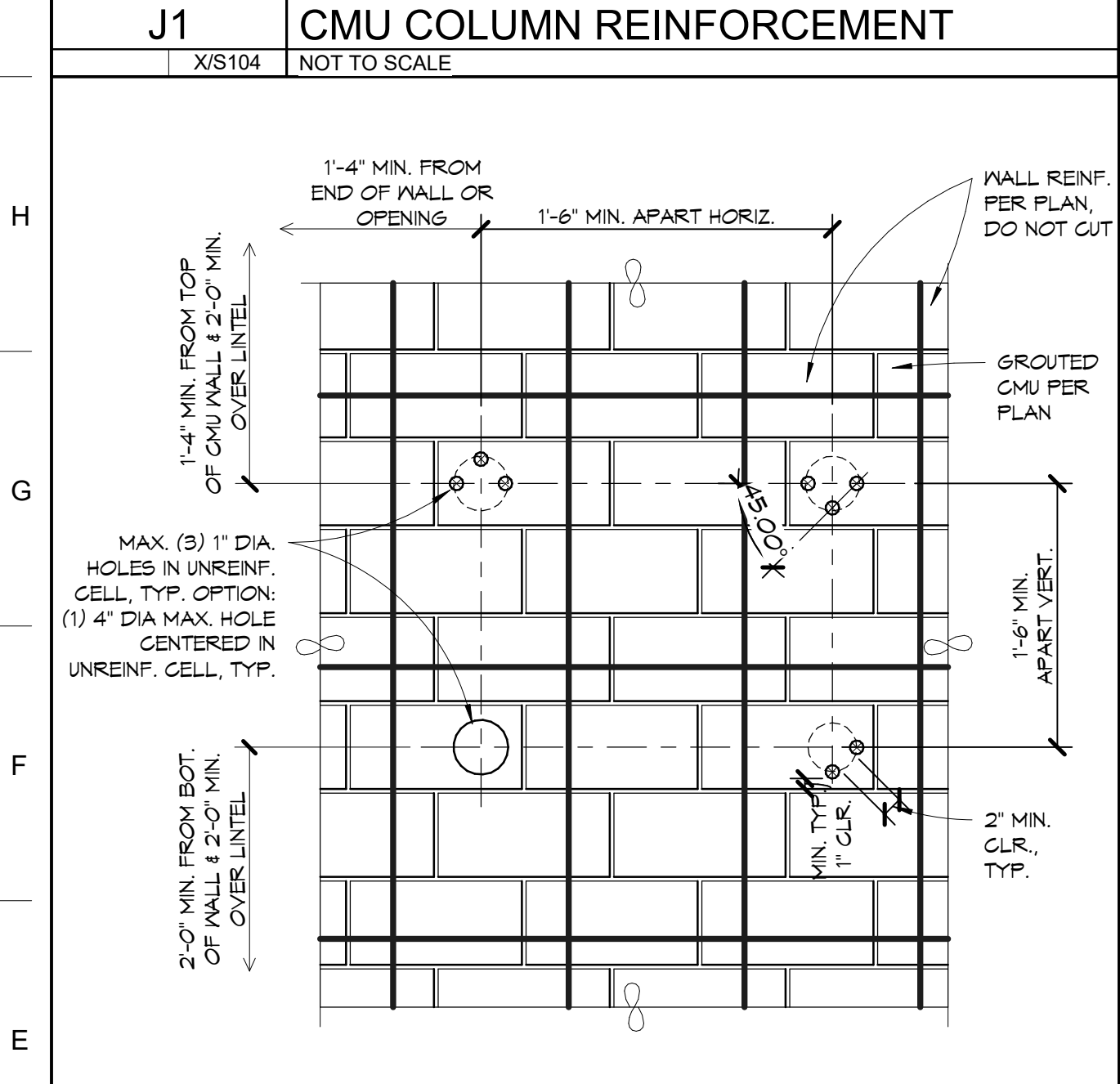
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CHECKED BY: ESB
REVIEWED BY: ESB

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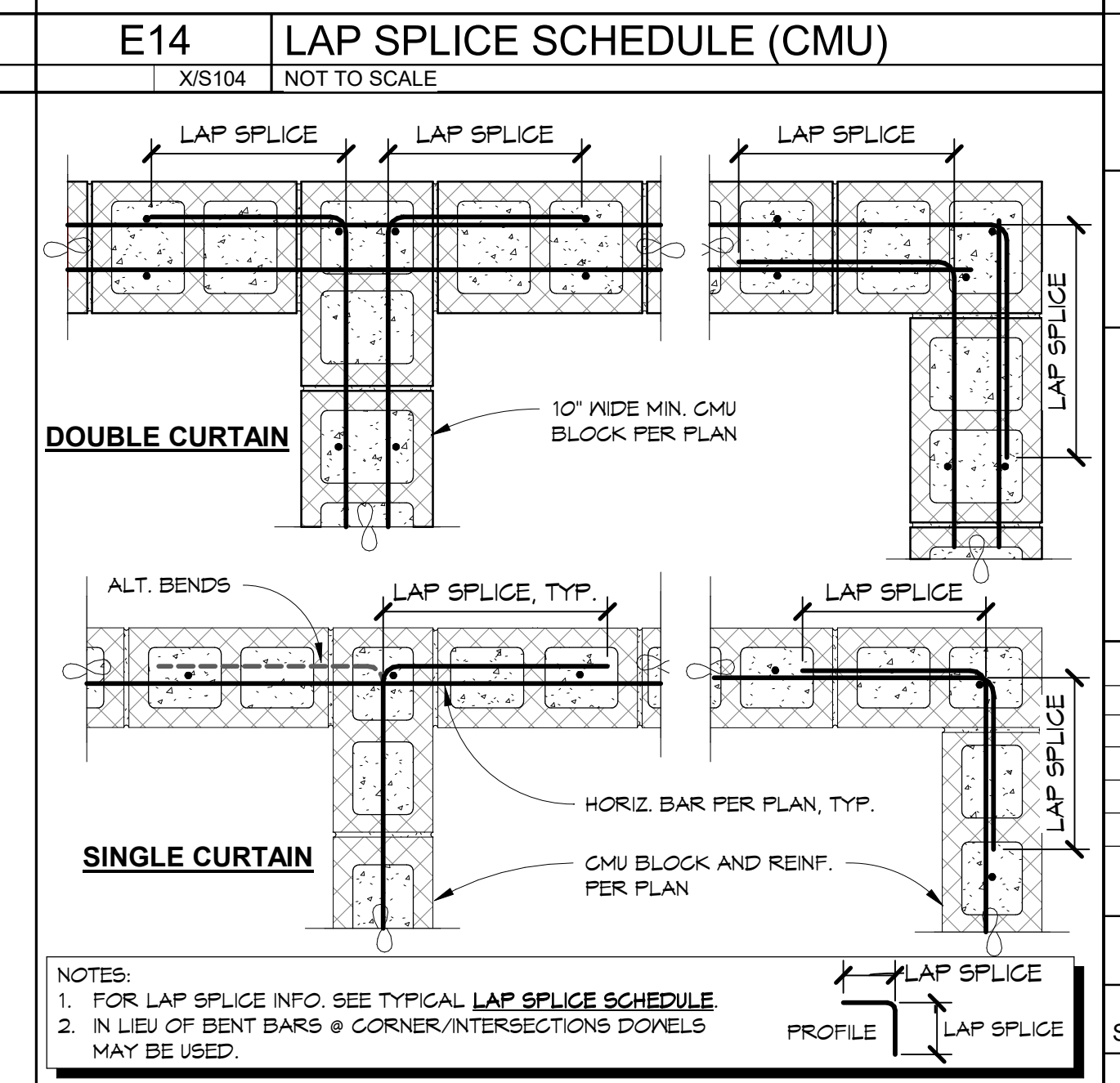
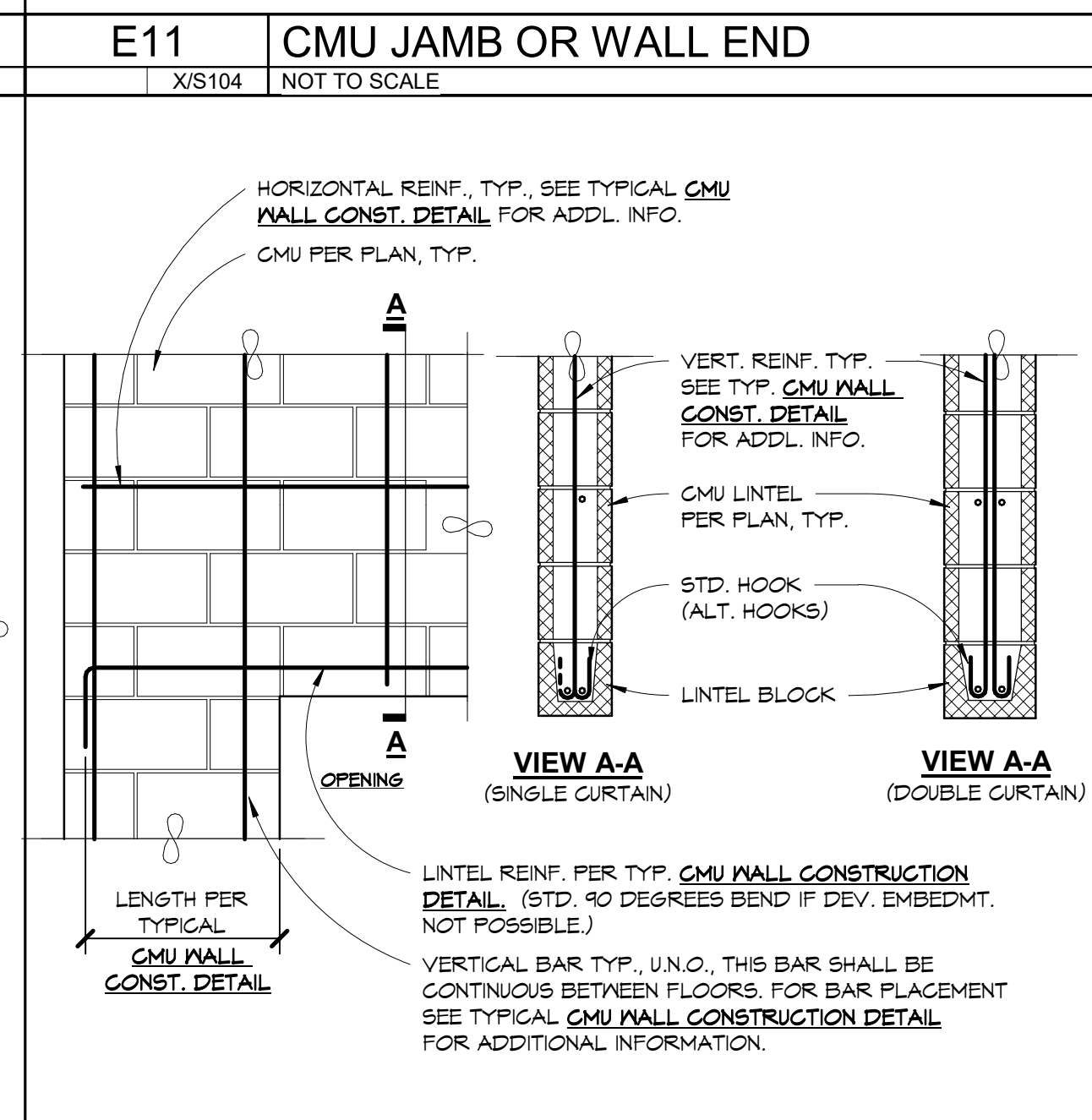
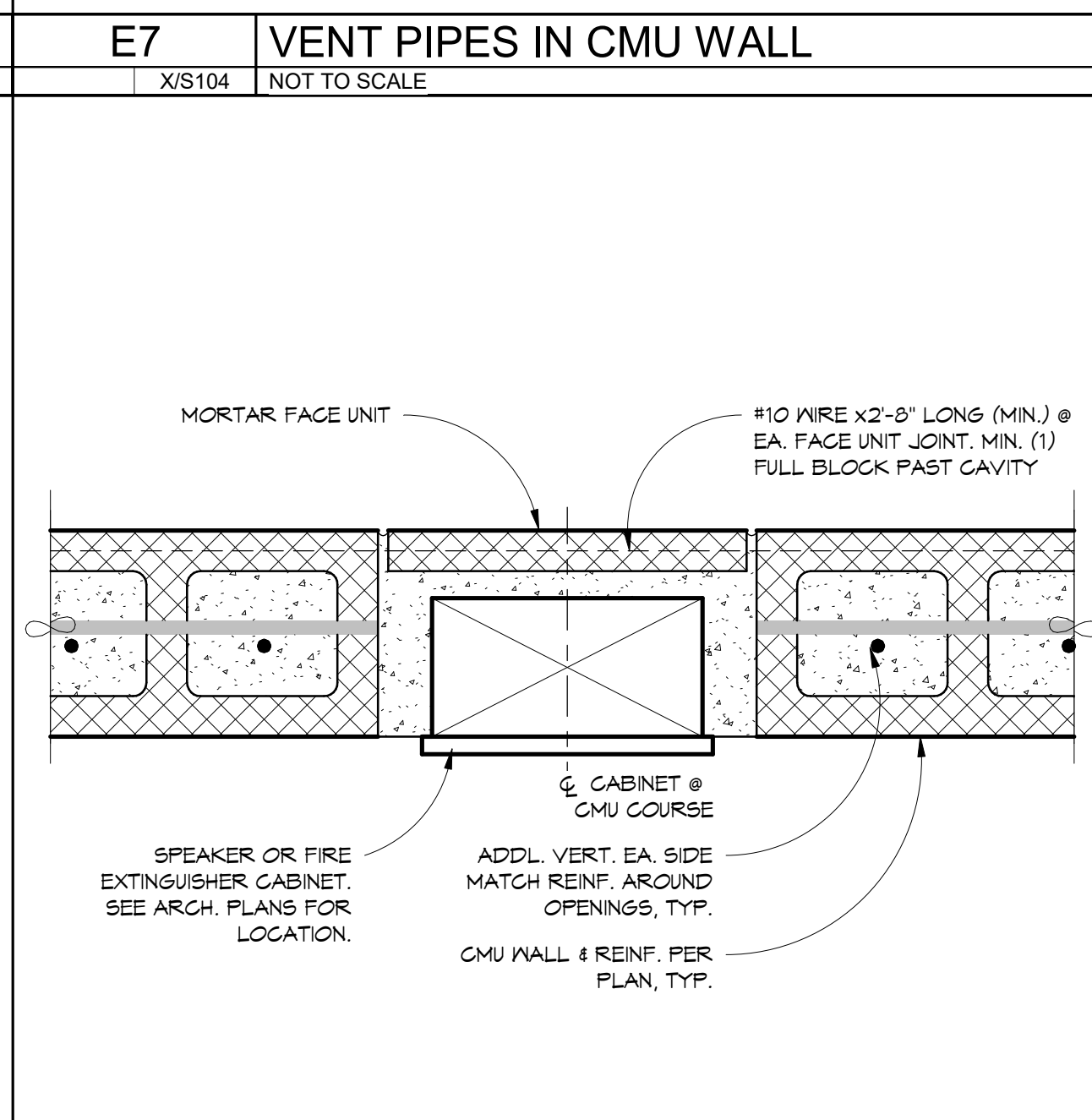
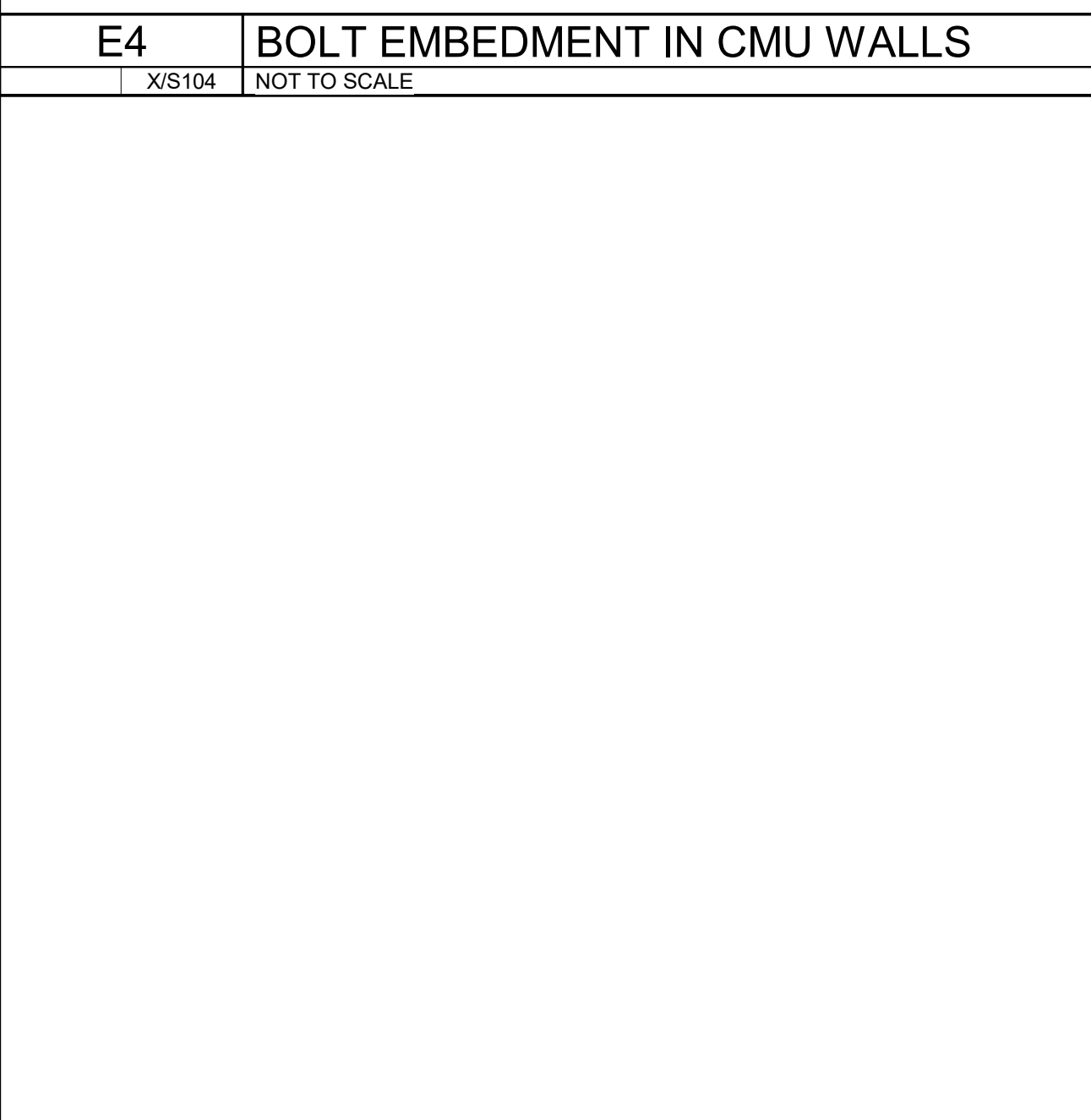
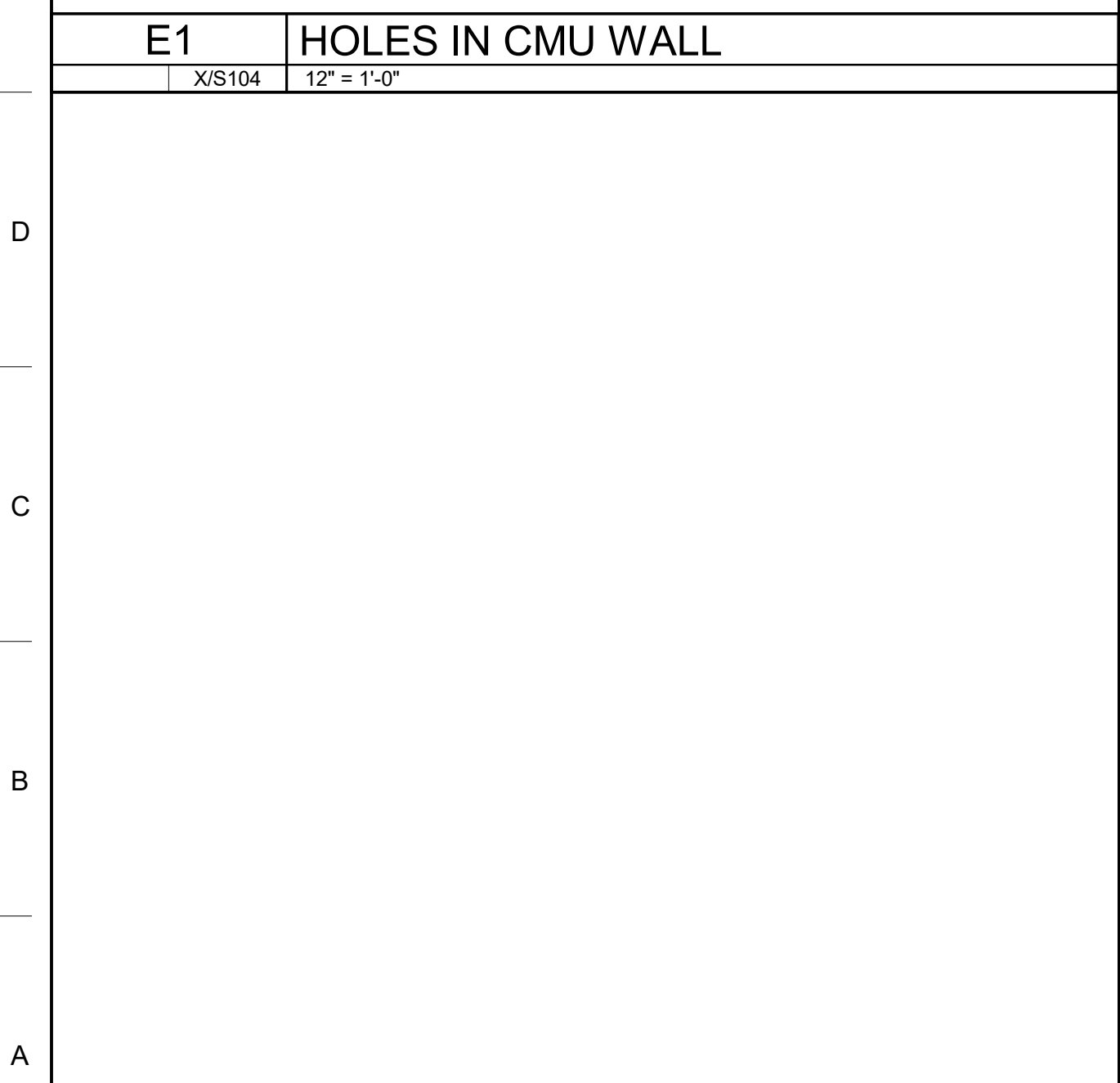
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22106
CONSULTANT



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A

STEEL DECKING SHALL BE TYPE N-24 AS MANUFACTURED BY VERGO MANUFACTURING COMPANY, 4840 NORTH 42ND AVENUE, PHOENIX, ARIZONA 85018. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION AND IAPMO VES-ER-2018. AN EQUIVALENT DECKING CAN BE SUBSTITUTED WITH THE APPROVAL OF THE STRUCTURAL ENGINEER. THE EQUIVALENT DECKING MUST MEET OR EXCEED ALL OF THE CRITERIA STATED BELOW.

DECKING SHALL BE FORMED FROM COLD ROLLED ZINC COATED STEEL (A.S.T.M. A 653) SHEETS WITH COATING DESIGNATION G60 (Z160) AND HAVE A MINIMUM YIELD STRENGTH OF 50,000 PSI. DECKING AT EXPOSED EXTERIOR APPLICATIONS SHALL HAVE ZINC COATING DESIGNATION G90 (Z275).

THE DECK PROFILE AND DIMENSION SHALL BE AS FOLLOWS:

GAGE	HEIGHT (PSF)	THICKNESS	YIELD STRENGTH	TENSILE STRENGTH
20	2.0	0.0374"	80 KSI	82 KSI
18	3.5	1.261"	0.652	0.755
16	4.2	1.642"	0.837	0.914

DECK GAGE, HEIGHT AND PROPERTIES SHALL BE AS SELECTED BELOW:

GAGE	WEIGHT (PSF)	I (in ⁴)	+S (in ³)	-S (in ³)	SELECTED DECK
20	2.6	0.907	0.443	0.531	
18	3.5	1.261	0.652	0.755	✓
16	4.2	1.642	0.837	0.914	

DECK ATTACHMENT TO SUPPORTS PERPENDICULAR TO RIBS SHALL BE WITH 1/2" DIA. EFFECTIVE ARC SPOT (PUDDLE) WELDS WITH A PATTERN AS SELECTED BELOW.

PATTERN DESIGNATION	PATTERN DIAGRAM	SELECTED PATTERN
24/4		✓

TYPE AND SPACING OF DECK ATTACHMENT TO SUPPORTS PARALLEL WITH DECK RIBS SHALL BE AS SELECTED BELOW:

ATTACHMENT TYPE	ATTACHMENT SPACING	SELECTED ATTACHMENT
1/2" DIA. EFF. ARC SPOT WELD	24" O.C.	✓
1/2" DIA. EFF. ARC SPOT WELD	18" O.C.	
1/2" DIA. EFF. ARC SPOT WELD	12" O.C.	

TYPE AND SPACING OF DECK ATTACHMENT AT SIDE LAPS SHALL BE AS SELECTED BELOW:

ATTACHMENT TYPE	ATTACHMENT SPACING	SELECTED ATTACHMENT
1 1/2" TOP BEAM WELD	24" O.C.	✓
1 1/2" TOP BEAM WELD	12" O.C.	

SEE DECK ATTACHMENT LAYOUT DETAIL FOR ADDITIONAL INFORMATION.

NO MECHANICAL EQUIPMENT, DUCTS OR PIPING SHALL BE SUPPORTED DIRECTLY FROM DECK. ALL PIPING AND EQUIPMENT SHALL BE SUPPORTED FROM STRUCTURAL FRAMING MEMBERS.

DECK SHALL BE SUPPORTED BY A MINIMUM OF (2) MEMBERS, (1) SPAN MINIMUM.

SEISMIC BRACING PERPENDICULAR TO I-JOIST

GENERAL NOTES:
1. ATTACH HANGER AND FILLER BLOCK BY NAILING THROUGH THE HANGER, BLOCK AND I-JOIST WEB WITH (10) 10D NAILS AND CLINCH.
2. MAKE ATTACHMENT PER NFPA 13 NEAR THE CENTER OF THE 4X BLOCK. FASTENER MUST BE AT LEAST 1/8" FROM THE END OF THE BLOCK AND 4/8" FROM ALL OTHER EDGES.

J4 METAL ROOF DECK NOTES (N-24 WELDED) **J7** SLOPED METAL DECK AT STEEL BEAM

J11 KNIFE PLATE CONNECT. SCHED.

J14 STEEL NOTES

NOTES:
1. MINIMUM LENGTH OF DECK SHEETS SHALL BE ONE SPAN.
2. ENDS OF DECK SHEETS MUST BE LAPPED A MINIMUM OF 2', AND LAPS MUST OCCUR OVER SUPPORTS.
3. DECK SHEET MUST HAVE A MINIMUM BEARING OF 2" ON SUPPORTS.

DECK RIB VALLEY TO BE CENTERED OVER BEAM WHERE POSSIBLE. WHERE RIB VALLEY EDGE EXTENDS OVER EDGE OF BEAM FLANGE, DECK MUST BE SPLIT FULL LENGTH OF BEAM. PROVIDE CONCRETE HAUNCH WITH WIDTH EQUAL TO, OR GREATER THAN, DECK RIB VALLEY.

DECK PARALLEL TO BEAM (SPLIT DECK OVER BEAM)

DECK PARALLEL TO BEAM (RIB OVER BEAM)

DECK PERPENDICULAR TO BEAM

NOTE: ALL DECK ATTACHMENTS PER TYPICAL METAL ROOF DECK NOTES

J1 KNIFE PLATE CONNECT. SCHED.

J14 STEEL NOTES

NOTES:
1. CLIP BEAM FLANGE(S) WHERE REQUIRED TO CLEAR ADJACENT BEAM FLANGES AT MULTI-BEAM CONNECTIONS.
2. KNIFE PLATE SLOT WIDTH = KNIFE PLATE THICKNESS + 1/8"
3. PIP WELDS ARE REQUIRED ALL AROUND COLUMN AT SPLICE LOCATIONS. LEAVE 1/16" OF COLUMN WALL THICKNESS AT INTERIOR FACE FOR PIP WELD.
4. USE A325 SC BOLTS AT BUILDING P1 IN LIEU OF A325N BOLTS PER SCHEDULE BELOW.

CONNECTION SCHEDULE

BEAM SIZE	PLATE	FILLET WELD SIZE	BOLTS NO.	SIZE	TYPE	DIAM	L _H	L _V
N6x / C6x	3/8	1/4	(2)	3/4"	A325N	1 1/2"	1 1/2"	
N10x / C10x	3/8	1/4	(2)	3/4"	A325N	1 1/2"	1 1/2"	
N12x / C12x	3/8	1/4	(3)	3/4"	A325N	1 1/2"	1 1/2"	
N14x / C14x	3/8	1/4	(3)	3/4"	A325N	1 1/2"	1 1/2"	
N16x	3/8	1/4	(4)	3/4"	A325N	1 1/2"	1 1/2"	
N18x	3/8	1/4	(4)	1"	A325N	2"	2"	
N21x	1/2	5/16	(5)	1"	A325N	2"	2"	
N24x	1/2	5/16	(6)	1"	A325N	2"	2"	
N27x	1/2	5/16	(7)	1"	A325N	2"	2"	

J11 KNIFE PLATE CONNECT. SCHED.

J14 STEEL NOTES

NOTES:
1. WORK SHALL CONFORM TO THE 2016 A.I.S.C. CODE OF STANDARD PRACTICE, SECTION 10, "ARCHITECTURALLY EXPOSED STRUCTURAL STEEL" U.N.O.
2. ALL STRUCTURAL STEEL MEMBERS, CONNECTIONS ETC., SHALL BE CONSIDERED AS "ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (A.E.S.S.)" IF EXPOSED TO VIEW PER PLANS.
3. ERECTION MARKS AND AIDS SHALL NOT BE MADE ON THOSE SURFACES THAT ARE TO BE EXPOSED TO VIEW IN THE COMPLETED STRUCTURE.
4. ERECTION AID BOLTS SHALL BE REMOVED AFTER ALL STRUCTURAL STEEL WORK IS COMPLETE AND ERECTION AID HOLE FILLED WITH PLASTIC STEEL PUTTY TO A.E.S.S. APPEARANCE.
5. ALL EXTERIOR STEEL IS TO HAVE AN INORGANIC ZINC RICH PRIMER (OR HOT DIPPED GALVANIZED).
6. SEAMS OF HOLLOW STRUCTURAL SECTIONS SHALL BE ORIENTED AWAY FROM VIEW, U.N.O.
7. STRUCTURAL BOLT PLACEMENT SHALL BE ORIENTED IN A WAY TO HAVE ALL BOLT HEADS ON ONE SIDE OF CONNECTION. RANDOM PLACEMENT IS NOT ACCEPTABLE.
8. FIELD WELDING OF MISPLACED BOLTS WILL NOT BE ACCEPTABLE.
9. UNPLANNED SPLICES ON ANY MEMBERS SHALL BE SUBMITTED TO ARCHITECT OF RECORD FOR REVIEW PRIOR TO PERFORMING ANY WORK ON CONNECTION OF SPLICES.

ONE SIDED BEAM TO GIRDER CONNECTION

TWO SIDED BEAM TO GIRDER CONNECTION

CONNECTION SCHEDULE

BEAM SIZE	PLATE	FILLET WELD SIZE	BOLTS NO.	SIZE	TYPE	DIAM	L _H	L _V
N6x / C6x	3/8	1/4	(2)	3/4"	A325N	1 1/2"	1 1/2"	
N10x / C10x	3/8	1/4	(2)	3/4"	A325N	1 1/2"	1 1/2"	
N12x / C12x	3/8	1/4	(3)	3/4"	A325N	1 1/2"	1 1/2"	
N14x / C14x	3/8	1/4	(3)	3/4"	A325N	1 1/2"	1 1/2"	
N16x	3/8	1/4	(4)	3/4"	A325N	1 1/2"	1 1/2"	
N18x	3/8	1/4	(4)	1"	A325N	2"	2"	
N21x	1/2	5/16	(5)	1"	A325N	2"	2"	
N24x	1/2	5/16	(6)	1"	A325N	2"	2"	
N27x	1/2	5/16	(7)	1"	A325N	2"	2"	

J14 STEEL NOTES

E14 ARCH'L EXPOSED STRUCT'L STEEL

NOTES:
1. FILLET WELD 'a' SHALL BE 1/4" AT BASE PLATES 3/4" AND LESS, AND 5/16" AT BASE PLATES GREATER THAN 3/4".
2. ANCHOR BOLTS TO BE 3/4" DIA WITH 12" MIN. EMBEDMENT INTO FOOTING, U.N.O.

CONNECTION SCHEDULE

BEAM SIZE	PLATE	FILLET WELD SIZE	BOLTS NO.	SIZE	TYPE	DIAM	L _H	L _V
N6x / C6x	3/8	1/4	(2)	3/4"	A325N	1 1/2"	1 1/2"	
N10x / C10x	3/8	1/4	(2)	3/4"	A325N	1 1/2"	1 1/2"	
N12x / C12x	3/8	1/4	(3)	3/4"	A325N	1 1/2"	1 1/2"	
N14x / C14x	3/8	1/4	(3)	3/4"	A325N	1 1/2"	1 1/2"	
N16x	3/8	1/4	(4)	3/4"	A325N	1 1/2"	1 1/2"	
N18x	3/8	1/4	(4)	1"	A325N	2"	2"	
N21x	1/2	5/16	(5)	1"	A325N	2"	2"	
N24x	1/2	5/16	(6)	1"	A325N	2"	2"	
N27x	1/2	5/16	(7)	1"	A325N	2"	2"	

BASE PLATE SCHEDULE

COLUMN SIZE	BASE PLATE SIZE		
SIZE	't'	'a'	'b'
H584X4	3/4"	10"	10"
H58X5	3/4"	11"	11"
H58X6	3/4"	14"	14"

NOTE: 't' = THICKNESS

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MISSION OAK HS AQUATIC COMPLEX
Tulare Joint Union High School District
Tulare, CA 93274

TYPICAL INFORMATION
TYPICAL STEEL NOTES & DETAILS

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Scale: As indicated
Project Number: 2180
Date: 11/16/2022

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Revision
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Checked By: ESB
Reviewed By: ESB

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ROD WITH HANGER BLOCK

2x6 MIN. HANGER BLOCK WITH 1/4" MIN. GAP TO BOTTOM CHORD

1/2" x 3" LAG SCREW INTO A 1/4" LEAD HOLE

2 1/2" MIN. (3" AT MANS)

HANGER ROD OR SUPPORT PER NFPA 13, CENTER BETWEEN JOISTS

MAX PIPE SIZE: 3" 1/2" x 3" LAG SCREW

ROD WITH HANGER BLOCK

2x6 x 18" LONG MIN. RESTING ON BOTTOM FLANGE

4x4 MIN. HANGER BLOCK AS REQ'D. SEE TABLE A

FASTENER AS REQ'D. SEE TABLE B. LOCATE FASTENER 1" FROM TOP OF BLOCK

(2) 3/8" DIA. MACHINE BOLTS PER JOIST W/ 1" WASHERS; GNGH TIGHT

(2) 16d NAILS PER END

PIPE SIZE AT MAXIMUM HANGER SPACING: SEE TABLE B

DISTANCE BETWEEN JOISTS	WOOD HANGER BLOCK SIZE
32" OR LESS	4x4 ⁽¹⁾
48"	4x6
96"	4x8

(1) FOR SPRINKLER MAIN LINES, WOOD HANGER BLOCK SIZE IS 4x6 FOR 32" OR LESS SPACING

PIPE SIZE	FASTENER	MAX. LOAD (LBS)
3"	1/2" x 3" LAG	160
5"	1/2" MACHINE BOLT	350
6" ⁽¹⁾	5/8" MACHINE BOLT	470

(1) REQUIRES MINIMUM NO. 2 GRADE DOUGLAS FIR OR SOUTHERN PINE HANGER BLOCK

ROD WITH HANGER AND FILLER BLOCK

2x6 x 18" LONG MIN. RESTING ON BOTTOM FLANGE

MACHINE BOLT WITH WASHER; GNGH TIGHT

HANGER ROD OR SUPPORT PER NFPA 13

SECTION A-A

PIPE SIZE	MACHINE BOLT DIAMETER	MINIMUM CLEARANCE	MAX LOAD (LBS)
UP TO 2"	3/8"	2 1/2"	75
2 1/2" TO 3"	1/2"	3"	115-160

ROD WITH SIDE BOLT

2x6 x 18" LONG MINIMUM RESTING ON BOTTOM FLANGE

MACHINE BOLT WITH WASHERS; GNGH TIGHT

APPROVED BRACKET PER NFPA 13

HANGER ROD OR SUPPORT PER NFPA 13

SECTION A-A

PIPE SIZE	MACHINE BOLT DIAMETER	MINIMUM CLEARANCE	MAX LOAD (LBS)
UP TO 2"	1/2"	3"	75

ROD WITH SIDE BRACKET

2x6 x 18" LONG MINIMUM RESTING ON BOTTOM FLANGE

MACHINE BOLT WITH WASHERS; GNGH TIGHT

APPROVED BRACKET PER NFPA 13

HANGER ROD OR SUPPORT PER NFPA 13

SECTION A-A

PIPE SIZE	MACHINE BOLT DIAMETER	MINIMUM CLEARANCE	MAX LOAD (LBS)
UP TO 2"	1/2"	3"	75

E1 I-JOIST SUPPORT FOR 3" PIPES

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SEISMIC BRACING PARALLEL TO I-JOIST

2x6 x 1'-0" FILLER BLOCK EACH SIDE OF I-JOIST WEB UNDER TOP FLANGE

10x2-1/2" LONG (MIN.) WOOD SCREWS (6 EACH SIDE)

MASHER

SPRINKLER BRACE FITTING

1/2" DIA. BOLT

MAXIMUM PIPE SIZE: 2"

CEILING FLANGE

1/2" MAX. FOR FLANGES 1/2" WIDE

1/2" MAX. FOR FLANGES 1/2" WIDE

HANGER ROD OR SUPPORT PER NFPA 13

CEILING FLANGE WITH (2) 5/8" x 1 1/2" LAG SCREWS OR #10 x 1 1/2" SCREWS

MAXIMUM PIPE SIZE: 2"

ANGLE	30°	45°	60°
555	620	690	

ALLOWABLE HORIZONTAL SEISMIC LOADS (LBS)

ANGLE TO VERTICAL (a)	30°	45°	60°
555	620	690	

A1 SWIVEL SWAY BRACE W/ FILLER

X/S106 NOT TO SCALE

E4 HANGING MECHANICAL UNIT AT I-JOIST

X/S106 NOT TO SCALE

MECHANICAL UNIT

CABLES, TYPICAL

2x6 MIN. SHAPED BLOCKING W/ SIMPSON LWS HANGER EACH END, TYPICAL AT CONNECTION LOCATIONS

1/2" DIA. EYEBOLT @ C. BLKS., TYP.

4" MIN. TYP.

1/4" AIRCRAFT CABLE W/ BLACK AND CABLE CLAMPS AT EACH END OF CABLES (4 LOCATIONS)

1/2" DIA. THREADED RODS W/ TRIFLE NUT EA. END OF ROD, MIN. (4 LOGS)

BENT PLATE 3/8"x2 1/2"x3" (4 LOCATIONS)

MECHANICAL UNIT PER PLAN (200# MAX. WEIGHT)

VIEW A-A

VIEW B-B

P2405 GRADE 5 CUP

1/2" DIA. ALL THREADED ROD

P1000 LENGTH (6" SHORTER THAN ROD)

F5000 NUT

3/8" DIA. x 1" HHCS

E7 ALLOWABLE OPENINGS IN I-JOISTS

X/S106 NOT TO SCALE

4'-0" MIN.

USE 1/4" DIA. PILOT HOLE @ CORNERS TO PREVENT OVER-CUTTING

6'-0" MIN.

NO OPENINGS LARGER THAN 1 1/2" DIA. ALLOWED IN CANTILEVER

NO OPENINGS IN HATCHED AREA, TYP.

WHICHEVER IS GREATER

1 1/2" DIA. OPENINGS MAY BE BORED ANYWHERE IN WEB EXCEPT IN NO CUT ZONES.

END BEARING LOCATION, SEE PLAN FOR TYPE.

INTERIOR BEARING LOCATION, SEE PLAN FOR TYPE.

JOIST DEPTH = D

NOTES:

- ALL OPENINGS LARGER THAN 1 1/2" DIA. MUST BE PLACED IN CENTER THIRD OF I-JOIST DEPTH.
- MAXIMUM SQUARE OPENING SIZE (S) IS 4" SQUARE.
- MAXIMUM ROUND OPENING SIZE (D) IS 5" DIA.
- DO NOT CUT FLANGE.
- WHERE LARGER OPENINGS ARE REQUIRED CONTACT STRUCTURAL ENGINEER PRIOR TO CUTTING FOR ADDITIONAL REINFORCEMENT INFORMATION.

A4 I-JOIST SUPPORT FOR 2" PIPES

X/S106 NOT TO SCALE

1/2" DIA. BOLT

SCREW PENETRATION INTO WEB IS ALLOWED

1/2" MAX. FOR FLANGES 1/2" WIDE

1/2" MAX. FOR FLANGES 1/2" WIDE

HANGER ROD OR SUPPORT PER NFPA 13

CEILING FLANGE WITH (2) 5/8" x 1 1/2" LAG SCREWS OR #10 x 1 1/2" SCREWS

MAXIMUM PIPE SIZE: 2"

N7 DOUBLE I-JOIST FILLER

X/S106 NOT TO SCALE

FILLER WIDTH VARIES SEE MFR. SPECS. DOUBLE I-JOIST

1/8" MIN. 1/4" MAX. GAP (TIGHT AT HGR. 4 COLS. ABOVE LOGS.)

TOP OF FILLERS

WIDTH x 5 1/2" FILLET (USE WIDTH x 1 1/4" FILLER AT 14" DEEP OR GREATER I-JOISTS)

(10) 10d NAILS EA. SIDE OF FILLER (USE 16d NAILS AT FILLER WIDTHS 3" OR GREATER)

WEB STIFFENER AS REQUIRED BY TYPICAL I-JOIST WEB STIFFENER DETAIL

BOTTOM OF FILLERS

1/8" MIN. 1/4" MAX. GAP (TIGHT AT HGR. 4 COLS. ABOVE LOGS.)

WEB STIFFENER AS REQUIRED BY TYPICAL I-JOIST WEB STIFFENER DETAIL

NOTES:

- WEB FILLER TO BE MFR. OR FIELD INSTALLED AT 24" O.C. OR AT JOIST HANGER SPACING, WHICHEVER IS LESS.
- SEE MFR. SPECIFICATIONS FOR WEB FILLER THICKNESSES AND FASTENER INFORMATION.
- IF MFR. FASTENER INFORMATION DIFFERS FROM THIS DETAIL, FOLLOW THE MANUFACTURER'S REQUIREMENTS.

VIEW A-A

WEB STIFFENERS SEE TYPICAL I-JOIST WEB STIFFENER DETAIL FOR INFORMATION

(4) 10d. TYP.

2x4 BLKS.

I-JOIST PER PLAN

VIEW B-B

I-JOIST PER PLAN

E11 I-JOIST NOTES

X/S106 NOT TO SCALE

8" MIN. 1 1/2" TYP.

12" MIN. CENTER O' SUPPORT

1 1/2" MIN. 1/4" MAX. GAP

I-JOIST PER PLAN

2x6x10" BLOCK

(4) 2D x 2" CLINCH @ BACKSIDE

#10 x 1 1/2" WOOD SCREW

SHEET METAL STRAP PER MECH.

END BEARING

HANGER OR WALL WIDTH

1/8" MIN. CENTER ON HANGER

INSTALL WEB STIFF. TIGHT TO TOP FLANGE

JOIST PER PLAN

WEB STIFF. BOTH SIDES W/ (6) 8d EA. SIDE

WEB STIFF. BOTH SIDES W/ (6) 8d EA. SIDE

INSTALL WEB STIFF. TIGHT TO BOTTOM FLANGE

INTERIOR BEARING

NOTES:

- WEB STIFFENERS TO BE MFR. OR FIELD INSTALLED AT ALL BEARING AND JOIST HANGER LOCATIONS.
- SEE MFR. SPECIFICATIONS FOR WEB STIFFENER THICKNESS AND FASTENER INFORMATION.
- IF MFR. FASTENER INFORMATION DIFFERS FROM THIS DETAIL, FOLLOW THE MANUFACTURER'S REQUIREMENTS.

HANGERS OR WALLS ABOVE

1/8" MIN. 1/4" MAX. GAP

A7 MECH'L DUCT HANGER @ "I" JOIST

X/S106 NOT TO SCALE

1/2" DIA. BOLT

SCREW PENETRATION INTO WEB IS ALLOWED

1/2" MAX. FOR FLANGES 1/2" WIDE

1/2" MAX. FOR FLANGES 1/2" WIDE

HANGER ROD OR SUPPORT PER NFPA 13

CEILING FLANGE WITH (2) 5/8" x 1 1/2" LAG SCREWS OR #10 x 1 1/2" SCREWS

MAXIMUM PIPE SIZE: 2"

I-JOIST SCHEDULE*

MARK #	D (in)	FLANGE (T"xW")	FLANG. GRADE		WEB (in)	RESIST. MOMENT (ft-lbs)	RESIST. SHEAR (lbs)	E1 x 10 ⁶ (in ² -lbs)
			E (psi)	Fb (psi)				
RJ-01	14	1 1/2x2 1/2	1.9x10 ⁵	2600	7/16	8030	2540	666

*CC ES ESR-2494 OR EQUAL

TYPICAL SECTION

SEE ARCH. FOR VENTING

FLANGE

THICKNESS T PER SCHEDULE

DEPTH 'D' PER SCHEDULE

WIDTH 'W' PER SCHEDULE

E11 I-JOIST NOTES

X/S106 NOT TO SCALE

1/2" DIA. BOLT

SCREW PENETRATION INTO WEB IS ALLOWED

1/2" MAX. FOR FLANGES 1/2" WIDE

1/2" MAX. FOR FLANGES 1/2" WIDE

HANGER ROD OR SUPPORT PER NFPA 13

CEILING FLANGE WITH (2) 5/8" x 1 1/2" LAG SCREWS OR #10 x 1 1/2" SCREWS

MAXIMUM PIPE SIZE: 2"

A11 I-JOIST WEB-STIFFENERS

X/S106 NOT TO SCALE

1/2" DIA. BOLT

SCREW PENETRATION INTO WEB IS ALLOWED

1/2" MAX. FOR FLANGES 1/2" WIDE

1/2" MAX. FOR FLANGES 1/2" WIDE

HANGER ROD OR SUPPORT PER NFPA 13

CEILING FLANGE WITH (2) 5/8" x 1 1/2" LAG SCREWS OR #10 x 1 1/2" SCREWS

MAXIMUM PIPE SIZE: 2"

WASHER SCHEDULE

BOLT SIZE	STEEL PLATE SQUARE	MALLEABLE IRON ROUND	STANDARD CUT WASHER
1/2" DIA	2 x 2 x 1/4"	2 1/2" DIA x 1/4"	1 3/8" DIA x 7/64"
5/8" DIA	2 1/2 x 2 1/2 x 1/4"	2 3/4" DIA x 5/16"	1 3/4" DIA x 1/8"
3/4" DIA	3 x 3 x 5/16"	3" DIA x 3/8"	2" DIA x 5/32"
7/8" DIA	3 1/2 x 3 1/2 x 5/8"	3 1/2" DIA x 1/2"	2 1/4" DIA x 11/64"
1" DIA	3 3/4 x 3 3/4 x 3/4"	4" DIA x 1/2"	2 1/2" DIA x 11/64"
1 1/8" DIA	4 x 4 x 7/16"	4 1/2" DIA x 9/16"	2 3/4" DIA x 11/64"
1 1/2" DIA	4 1/4 x 4 1/4 x 1/2"	5" DIA x 5/8"	3 1/2" DIA x 3/16"

- ALL BOLTS SHALL BE MACHINE MADE TYPE F1554 GRADE 36 U.N.O.
- BOLT HOLES IN WOOD SHALL BE OVERSIZED BY NOT MORE THAN 1/32".
- ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH STANDARD STEEL WASHERS UNDER HEAD AND NUTS WHICH BEAR ON WOOD ACCORDING TO THE WASHER SCHEDULE BELOW U.N.O.
- BOLTS AND SCREWS SHALL BE TIGHTENED AT TIME OF ERECTION AND RETIGHTENED BEFORE CLOSING IN OR AT COMPLETION OF JOB.
- ANCHOR AND/OR SILL BOLTS WITH UPSET THREADS ARE NOT PERMITTED.
- ALL PRESERVATIVE-TREATED D.P. SHALL BEAR THE AMPB QUALITY MARK. ALL CUTS OR HOLES SHALL BE PRE-TREATED PRIOR TO INSTALLATION.
- ALL EXPOSED FASTENERS SHALL HAVE ZINC-COATING CORROSION RESISTANCE.
- ALL FASTENERS AND HARDWARE IN CONTACT WITH PRESERVATIVE-TREATED OR FIRE RETARDANT WOOD SHALL BE HOT DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER. THE COATING WEIGHT FOR ZINC-COATED FASTENERS SHALL BE IN ACCORDANCE WITH A.S.T.M. A 153. EXCEPTION: FASTENERS OTHER THAN NAILS, TIMBER RIVETS, WOOD SCREWS AND LAG SCREWS SHALL BE PERMITTED TO BE OF MECHANICALLY DEPOSITED ZINC COATED STEEL WITH COATING WEIGHTS IN ACCORDANCE WITH A.S.T.M. B 685, CLASS 55 MIN.
- ALL FASCIA BOARDS MUST BE CONTINUOUS WITH NO SPLICES ALLOWED WITHIN 12'-0" MINIMUM FROM FRAMING CORNERS, UNLESS NOTED OTHERWISE.
- PLYWOOD NOTES:
 - IN HORIZONTAL PLYWOOD DIAPHRAGMS, NO PANEL LESS THAN 24" WIDE SHALL BE USED. PROVIDE FULL SHEETS OF PLYWOOD WHERE POSSIBLE.
 - ANY PIECE OF PLYWOOD SPANNING ACROSS FEMER THAN 3 SUPPORTS SHALL BE BLOCKED ON ALL EDGES.
 - DIAPHRAGM NAILING SHALL CONFORM TO SECTION 2305.3 OF C.B.C. 2019.
 - NAILS SHALL NOT BE OVER DRIVEN AS TO CAUSE CRUSHING OF FACELYS.
- ALL STRUCTURAL WOOD SHALL CONFORM WITH THE FOLLOWING SPECIFICATIONS:
 - DOUGLAS FIR - LARGE U.S. PRODUCT STANDARD PS1-01 FOR SOFTWOOD PLYWOOD
 - MINIMUM GRADES SHALL BE AS FOLLOWS U.N.O. ON DRAWINGS:
 - STRUCTURAL FRAMING DF NO. 1 OR BETTER
 - 4x AND LARGER AND POST. DF NO. 1 OR BETTER
 - STRUCTURAL PLYWOOD. PLYWOOD SHEATHING, GROUP 1, EXP. 1, U.N.O.
- PREDRILL HOLES WHERE WOOD TENDS TO SPLIT.
- WHERE LAG SCREWS ARE INDICATED, PROVIDE A FULL BODY DIAMETER LAG SCREW. THE SHANK SHALL EXTEND BEYOND THE ADJOINING MEMBER PLANE, U.N.O. LAG SCREWS SHALL NOT HAVE UPSET THREADS OR REDUCED BODY.
- FOR LAG SCREWS, LEAD HOLE FOR THE UNTHREADED PORTION SHALL HAVE A DIAMETER EQUAL TO THE SHANK DIAMETER. MINIMUM PENETRATION (NOT INCLUDING THE LENGTH OF TAPERED TIP) OF THE LAG SCREW INTO MAIN MEMBER SHALL BE EIGHT TIMES THE DIAMETER. LEAD HOLES ARE NOT REQUIRED FOR 3/8" AND SMALLER DIAMETER LAG SCREWS PROVIDED THAT EDGE DISTANCES, END DISTANCES, AND SPACING ARE SUFFICIENT TO PREVENT UNUSUAL SPLITTING.
- USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOB SITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL BY THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER AND D.S.A./O.S.H.P.D. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE NAILING WILL NOT BE APPROVED IN 5/16" PLYWOOD. IF NAIL HEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MIN. ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED, THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.

J14 WOOD NOTES

X/S106 NOT TO SCALE

SIMPSON CLIP AS REQUIRED ON PLAN

ROOF SHEATHING PER PLAN, TYP.

BOUNDARY NAILING REGD. AT ALL DIAPHRAGM BOUNDARY EDGES, TYP.

FIELD NAILING

3/8" MIN. 1/8" GAP

EDGE/BOUNDARY NAILING (STAGGER NAILING)

1/8" GAP

FREE EDGE

NOTE:

- SEE PLAN FOR ALL ROOF SHEATHING NAILING INFO.
- ALL NAILS SHALL BE COMMON NAILS. DO NOT CRUSH OUTER FACE PLY.

E14 ROOF SHEATHING

X/S106 NOT TO SCALE

- ALL LVL TO BE REDLAM AS MANUFACTURED BY REDBUILT, OR EQUIVALENT. SEE STRUCTURAL PLANS FOR SPECIFIC INFORMATION ON THE LVL'S BEING USED ON THIS PROJECT. SUBSTITUTE LVL'S MUST BE SUBMITTED AND APPROVED BY D.S.A./O.S.H.P.D. AS A CHANGE ORDER PRIOR TO INSTALLATION. THE CONTRACTOR SHALL BEAR ALL COSTS OF OBTAINING APPROVAL OF SUBSTITUTES, WITH NO GUARANTEE THAT THE SUBSTITUTE WILL BE ACCEPTED.
- DESIGN AND FABRICATION SHALL CONFORM TO THE REQUIREMENTS OF THE 2019 C.B.C. AND I.C.C. E.S. REPORT E.S.R.-2493.
- ALLOWABLE STRESS INCREASES FOR LOAD DURATION SHALL BE:
 - WIND OR SEISMIC 1.6
 - ROOF AND SNOW 1.15
 - FLOOR 1.0
- ALLOWABLE STRESS INCREASES FOR REPETITIVE MEMBERS SHALL NOT BE TAKEN GREATER THAN 1.0 PER N.D.S.-10 SECTION B.3.1.
- NO HOLES OR NOTCHES OF ANY KIND ARE ALLOWED IN ANY LVL'S, UNLESS APPROVED BY THE STRUCTURAL ENGINEER.
- THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS SHOWN ON STRUCTURAL DRAWINGS WITH ARCHITECTURAL DRAWINGS, AND THEN VERIFY IN FIELD WALL LAYOUT DIMENSIONS. NOTIFY THE ENGINEER AND ARCHITECT PRIOR TO PROCEEDING IF ANY DISCREPANCIES EXIST.
- LVL MEMBERS SHALL MEET THE MINIMUM PROPERTIES SHOWN BELOW:
 - Fb = 2,900 PSI
 - Fv = 285 PSI
 - Fc (PERPENDICULAR) = 750 PSI
 - Fc (PARALLEL) = 2,835 PSI
 - E = 2,000,000 PSI
 - Emin. = 965,110 PSI

DSA File No.: _____

DSA Application No.: 02-120251

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

APP: 02-120251 INC.

REVIEWED FOR

DATE: 01/31/2023

Agency Approval

BrooksRansom ASSOCIATES

22108

Mission Oak HS Aquatic Complex

Tulare Joint Union High School District

Tulare, CA 93274

Project

TYPICAL INFORMATION

TYPICAL WOOD NOTES & DETAILS

Drawing

ARCHITECTURE PLANNING INTERIORS

darden architects

www.dardenarchitects.com

6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051

Architect

No.	Revision/Submission	Date

Revision

Designed By: ESB

Copyright

Darden Architects

Scale: As indicated

Drawn By: ESB

Project Number: 2180

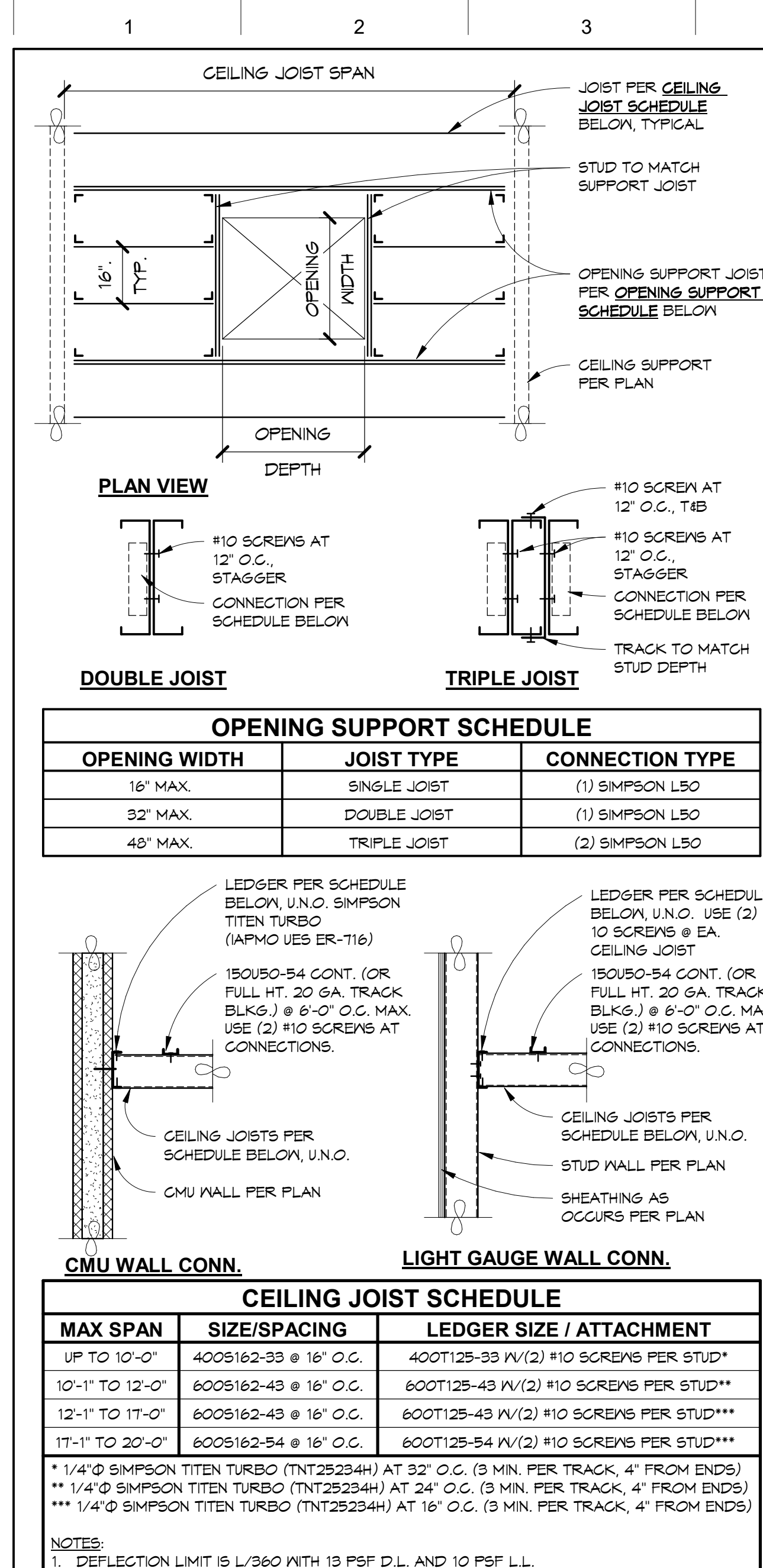
Checked By: ESB

Date: 11/16/2022

Reviewed By: ESB

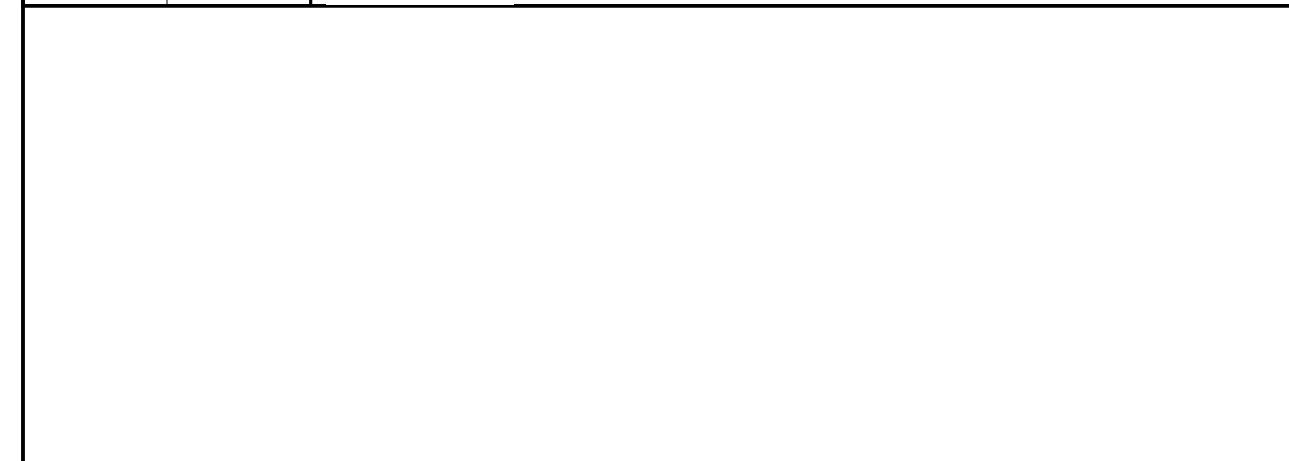
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X/S106



OPENING SUPPORT SCHEDULE

OPENING WIDTH	JOIST TYPE	CONNECTION TYPE
18" MAX	SINGLE JOIST	(1) SIMPSON L50
32" MAX	DOUBLE JOIST	(1) SIMPSON L50
48" MAX	TRIPLE JOIST	(2) SIMPSON L50



CEILING JOIST SCHEDULE

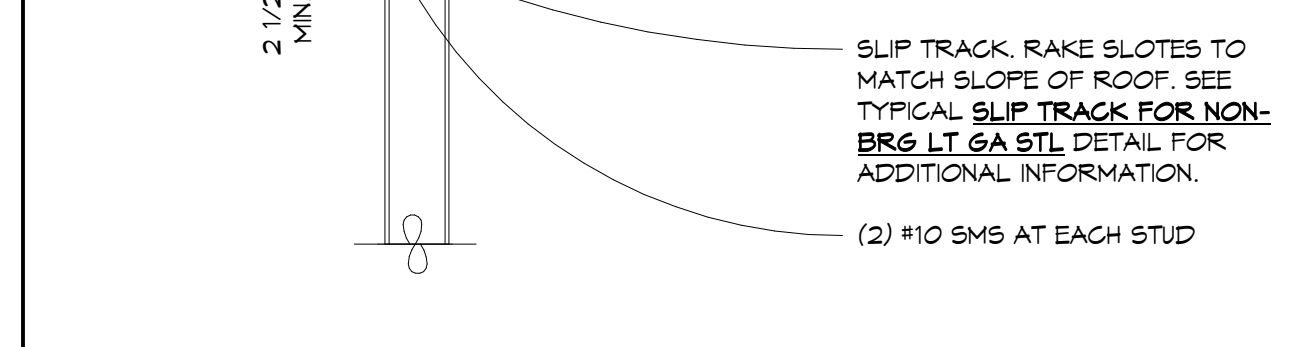
MAX SPAN	SIZE/SPACING	LEDGER SIZE / ATTACHMENT
UP TO 10'-0"	400S162-33 @ 16" O.C.	400T125-33 NV(2) #10 SCREWS PER STUD*
10'-1" TO 12'-0"	600S162-43 @ 16" O.C.	600T125-43 NV(2) #10 SCREWS PER STUD**
12'-1" TO 17'-0"	600S162-43 @ 16" O.C.	600T125-43 NV(2) #10 SCREWS PER STUD***
17'-1" TO 20'-0"	600S162-54 @ 16" O.C.	600T125-54 NV(2) #10 SCREWS PER STUD***

* 1/4"Ø SIMPSON TITEN TURBO (TNT25234H) AT 32" O.C. (3 MIN. PER TRACK, 4" FROM ENDS)
 ** 1/4"Ø SIMPSON TITEN TURBO (TNT25234H) AT 24" O.C. (3 MIN. PER TRACK, 4" FROM ENDS)
 *** 1/4"Ø SIMPSON TITEN TURBO (TNT25234H) AT 16" O.C. (3 MIN. PER TRACK, 4" FROM ENDS)

NOTES:
 1. DEFLECTION LIMIT IS L/360 WITH 13 PSF D.L. AND 10 PSF LL.

J1 INTERIOR LT. GA. CEILING JOIST SCHED

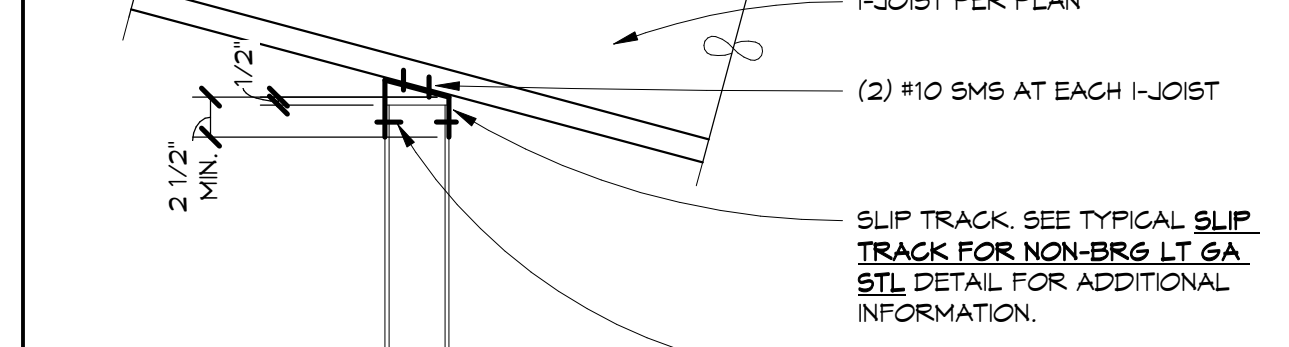
X/S107 NOT TO SCALE



NOTE:
 1. INSTALL ALL STUDS ONLY AFTER MAJOR DEAD LOADS FROM FLOOR AND/OR ROOF ABOVE HAVE BEEN APPLIED, SUCH AS CONCRETE FILL AND ROOFING MATERIAL.

E4 NON-BEARING WALL AT BEAM

X/S107 NOT TO SCALE



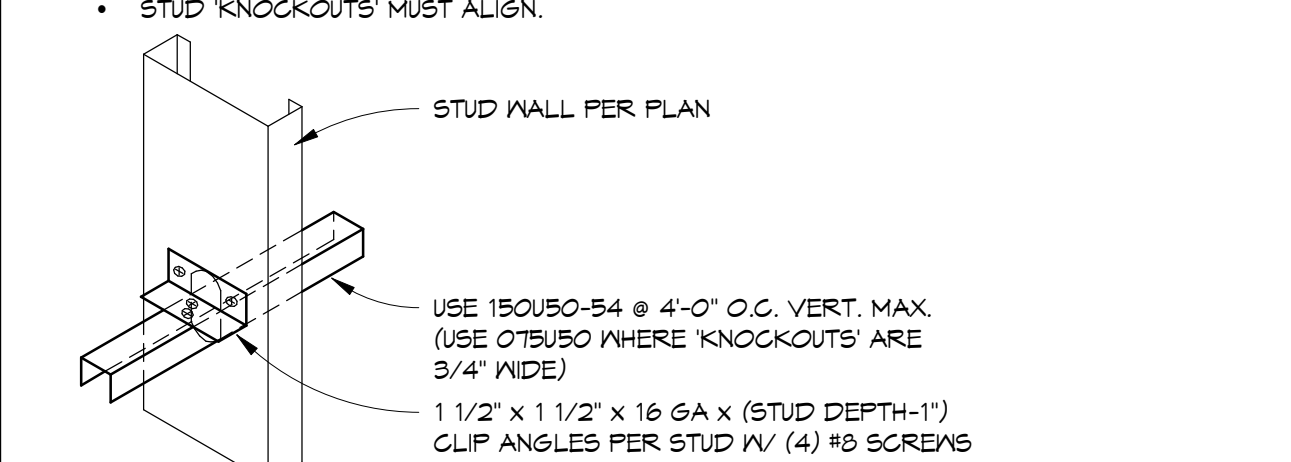
A1 NON-BEARING WALL TO I-JOIST FRAMING

X/S107 NOT TO SCALE

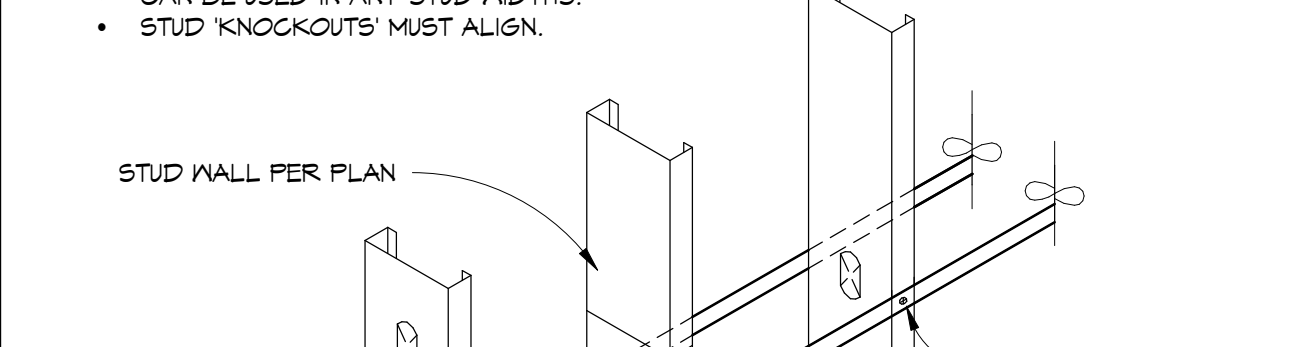
NOTES:
 1. BRIDGING MUST BE INSTALLED IN ALL BEARING, NON-BEARING, EXTERIOR OR INTERIOR, LIGHT GAUGE STUD WALLS.
 2. BRIDGING MAY BE OMITTED AT INTERIOR, NON-BEARING, LIGHT GAUGE STUD WALLS IF BOTH SIDES OF WALL WILL HAVE FULL HEIGHT WALL SHEATHING.
 3. ANY OF THE FOLLOWING TYPES OF BRIDGING MAY BE APPLIED:



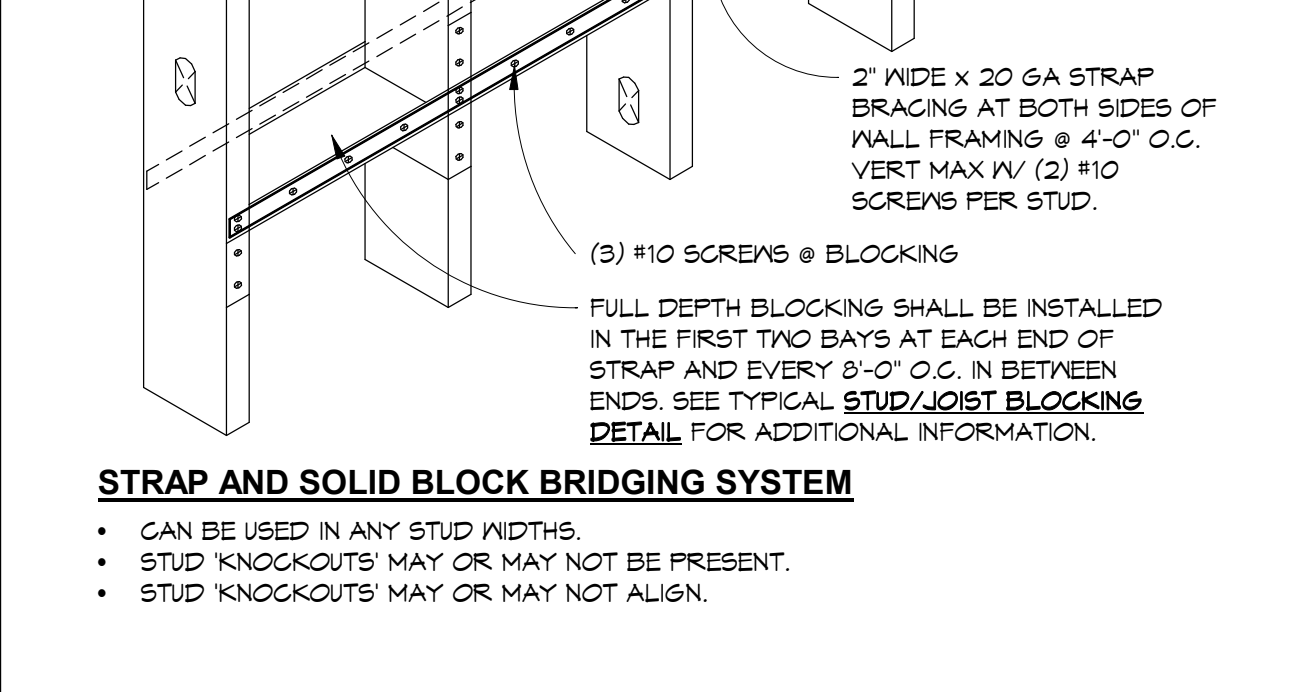
SHALL NOT BE USED IN STUDS OVER 6" WIDE.
 STUD KNOCKOUTS MUST ALIGN.



CAN BE USED IN ANY STUD WIDTHS.
 STUD KNOCKOUTS MUST ALIGN.

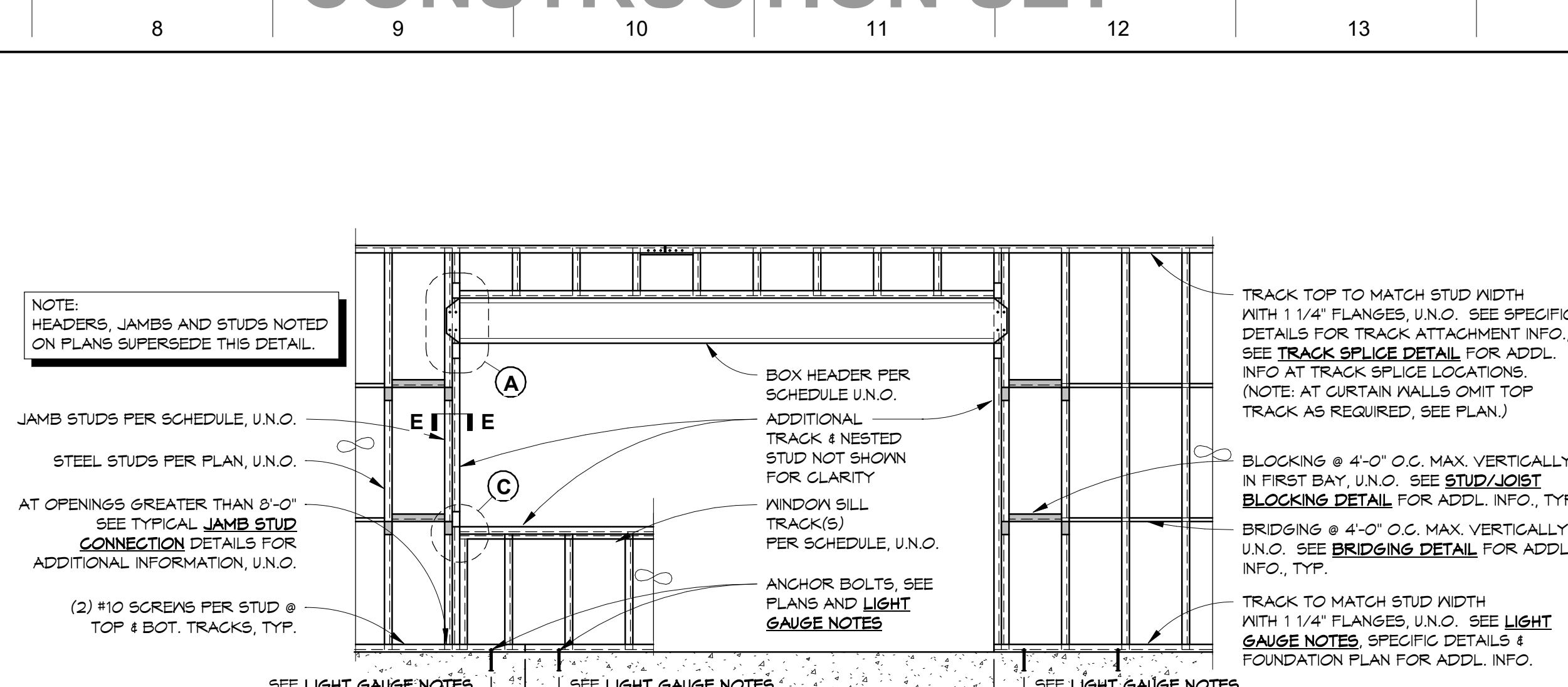


CAN BE USED IN ANY STUD WIDTHS.
 STUD KNOCKOUTS MAY OR MAY NOT BE PRESENT.
 STUD KNOCKOUTS MAY OR MAY NOT ALIGN.



J4 BRIDGING FOR LT. GAUGE STL

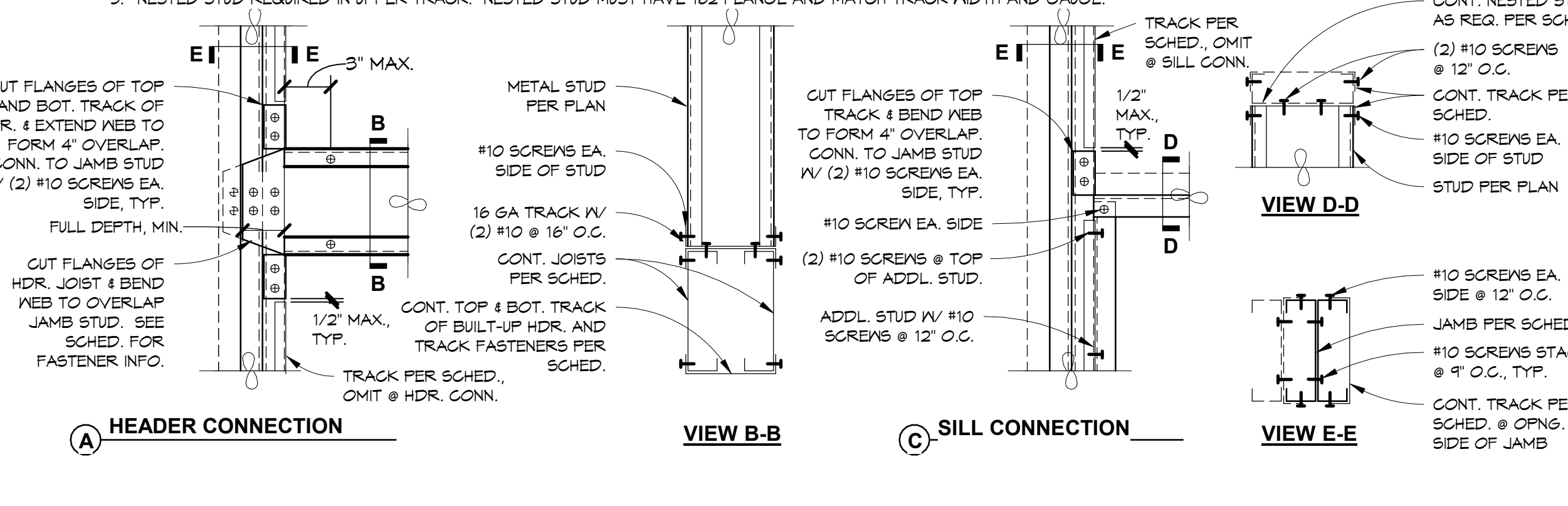
X/S107 NOT TO SCALE



LIGHT GAUGE FRAMING SCHEDULE

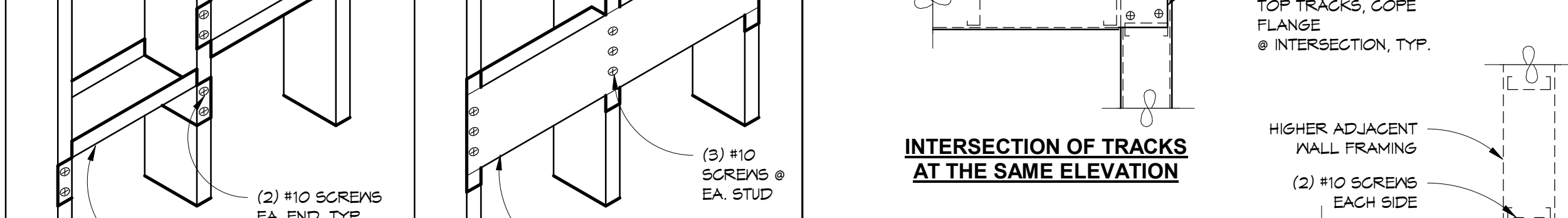
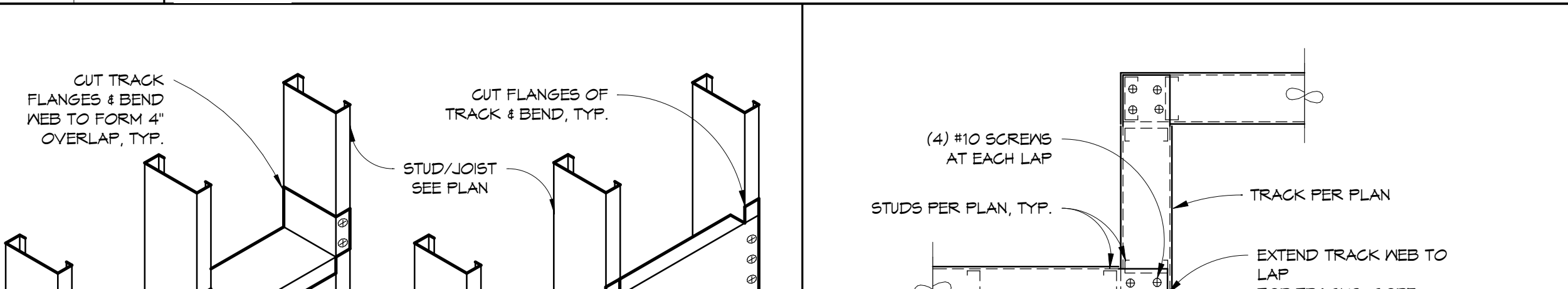
WALL TYPE	SPAN LENGTH	BOX HEADER		JAMB STUDS	WINDOW SILL TRACK(S)	NO. OF #10 SCREWS @ HDR. JST. TO JAMB	SPACING OF #10 SCREWS @ EA. HDR. TRK. TO EA. HDR. JST.
		DBL. JOISTS	T&B TRACKS				
3 5/8" STUDS	0'-0" TO 8'-0"	600S162-54	362T125-54	(3)362S162-68*	362T125-54	3	12" O.C.
	8'-1" TO 10'-0"	600S162-54	362T125-54	(3)362S162-68*	(2)362T125-54*	4	10" O.C.
6" STUDS	0'-0" TO 8'-0"	600S162-54	600T125-54	(2)600S162-54*	600T125-43	3	12" O.C.
	8'-1" TO 10'-0"	600S162-54	600T125-54	(2)600S162-54*	600T125-54	4	10" O.C.
	10'-1" TO 12'-0"	1000S162-54	600T125-54	(2)600S162-54*	600T125-54	5	8" O.C.
	12'-1" TO 14'-0"	1000S162-47	600T125-47	(2)600S162-68*	(2)600T125-54*	5	6" O.C.
	14'-1" TO 18'-0"	1200S250-47	600T125-47	(2)600S162-68*	(2)600T125-68*	6	6" O.C.

LIMITATIONS: 1) 450 PLF MAX. VERTICAL LOAD (ASD) TO HDR. 2) 20 PSF MAX. OUT-OF-PLANE LOAD (ASD) TO HDR, JAMB AND SILL. 3) 14'-0" MAX WALL HT.
 2. DEFLECTION LIMITATIONS: 1) L/360 VERTICAL. 2) L/240 OUT-OF-PLANE.
 3. TWO TRACKS REQUIRED. TRACKS MUST HAVE 125 FLANGE AND MATCH STUD WIDTH AND GAUGE. SEE DETAILS FOR PLACEMENT.
 4. ONE TRACK REQUIRED. TRACK MUST HAVE 125 FLANGE AND MATCH STUD WIDTH AND GAUGE. SEE DETAILS FOR PLACEMENT.
 5. NESTED STUD REQUIRED IN UPPER TRACK. NESTED STUD MUST HAVE 162 FLANGE AND MATCH TRACK WIDTH AND GAUGE.

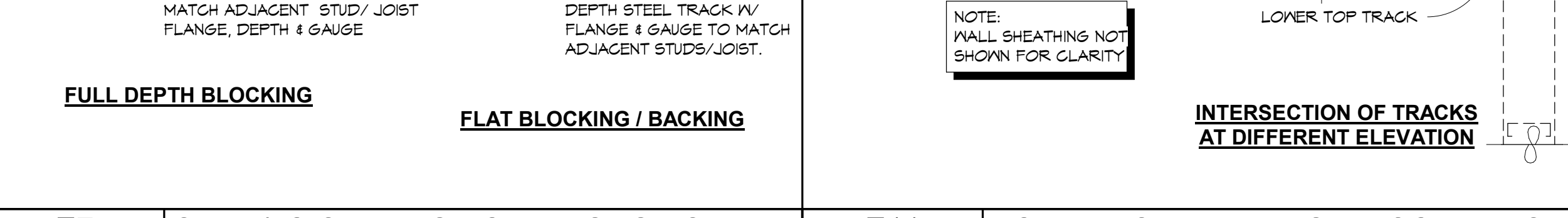


J7 WALL FRAMING AT OPENINGS

X/S107 NOT TO SCALE



NOTE: WALL SHEATHING NOT SHOWN FOR CLARITY

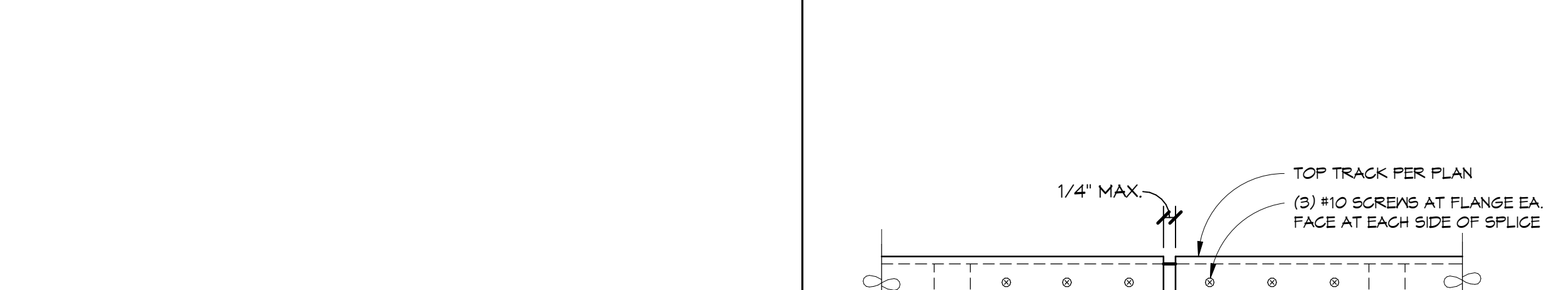


E7 STUD/JOIST BLKG FOR LT GAUGE STL.

X/S107 NOT TO SCALE

E11 TOP TRACK FRAMING AT CORNERS

X/S107 NOT TO SCALE



A11 TRACK SPLICE FOR LIGHT GAUGE STEEL

X/S107 NOT TO SCALE

DSA File No.: 02-120251

DSA Application No.: 02-120251

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP: 02-120251 INC:
 REVIEWED FOR
 SS FL S ACS
 DATE: 01/31/2023

Agency Approval

1. ALL MEMBERS SHALL BE MANUFACTURED BY A CURRENT MEMBER OF THE STEEL STUD MANUFACTURERS ASSOCIATION, IN ACCORDANCE WITH THE LATEST AMERICAN IRON AND STEEL INSTITUTE (NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS INCLUDING THE LATEST SUPPLEMENTS (A.I.S.I.-N.A.S.).

2. ALL GALVANIZED STUDS, TRACKS AND JOISTS SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE MINIMUM REQUIREMENTS OF THE LATEST A.I.S.I.-N.A.S. STANDARD.

3. ALL STEEL MEMBERS SHALL HAVE PHYSICAL MARKINGS AND IDENTIFICATION NUMBERS AS REQUIRED BY A.S.T.M. C645 AND A.S.T.M. C695. THESE MARKINGS MUST INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING INFORMATION: DEPTH, FLANGE WIDTH, MINIMUM STEEL THICKNESS, MANUFACTURER DESIGNATION, STEEL YIELD STRENGTH AND PROTECTIVE COATING WEIGHT.

4. STRUCTURAL STEEL FRAMING MEMBERS MUST MEET THE PHYSICAL REQUIREMENTS OF A.S.T.M. C695, THE INSTALLATION REQUIREMENTS OF A.S.T.M. C1007 AND THE MINIMUM COATING REQUIREMENTS OF A.S.T.M. A653 COATING DESIGNATION G-60.

5. NON-STRUCTURAL STEEL FRAMING MEMBERS MUST MEET THE PHYSICAL REQUIREMENTS OF A.S.T.M. C645, THE INSTALLATION REQUIREMENTS OF A.S.T.M. C754 AND THE MINIMUM COATING REQUIREMENTS OF A.S.T.M. A653 COATING DESIGNATION G-60.

6. STEEL SHALL BE A.S.T.M. A1003, GRADE 50 FOR 12, 14, AND 16 GAUGE SECTIONS, AND A.S.T.M. A1003, GRADE 50 FOR 18 AND HIGHER GAUGE SECTIONS.

7. PROVIDE STEEL MEMBERS WITH SECTION PROPERTIES EQUAL TO OR GREATER THAN THOSE SPECIFIED BY THE "STEEL STUD MANUFACTURERS ASSOCIATION" (S.S.M.A.) CATALOG, CG ESR-3064P, FOR THE MEMBER SIZES DESIGNATED ON THE PLANS.

8. THE CONTRACTOR MUST PROVIDE A MATERIAL SUBMITTAL INDICATING THE SIZE, GAUGE, SECTIONAL PROPERTIES AND MATERIALS TO BE USED TO THE ARCHITECT AND ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION ACCORDANCE WITH THE SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AGENCY APPROVAL FOR ANY SUBSTITUTIONS.

9. BENT, KINKED, DISTORTED, CORRODED OR DAMAGED SECTIONS SHALL NOT BE USED.

10. STUDS MAY HAVE CUTOUTS (OR KNOCKOUTS). CUTOUTS MAY BE A MAXIMUM DIMENSION OF 1 1/2" WIDE X 4" LONG AND HAVE A MINIMUM SPACING OF 24" O.C. EXCEPT CUTOUTS FOR 1 5/8" AND 2 1/2" MUST NOT EXCEED A WIDTH OF 3/4". CUTOUTS SHALL NOT BE CLOSER THAN 12" FROM MEMBER ENDS.

11. ALL WELDING TO BE PERFORMED BY LIGHT GAUGE WELDERS CERTIFIED FOR ALL APPROPRIATE DIRECTIONS COMPLYING WITH A.I.S. D13. WELDING RODS SHALL CONFORM TO THE FOLLOWING:
 - 60XX
 - 16 GA. AND HEAVIER: E70XX OR E8013
 - LIGHT GAUGE TO STRUCTURAL STEEL: E70XX LOW HYDROGEN

12. ALL WELDS OF GALVANIZED STEEL SHALL BE TOUCHED UP WITH A ZINC-RICH PAINT. ALL WELDS OF CARBON SHEET STEEL SHALL BE TOUCHED UP WITH PAINT.

13. WIRE TYING OF COMPONENTS SHALL NOT BE PERMITTED.

14. LATERAL BRIDGING FOR STEEL STUD IS REQUIRED WHEN WALL BOARD, INSTALLED IN ACCORDANCE WITH A.I.S.I.-N.A.S. REQUIREMENTS, DOES NOT CONTINUE FULL HEIGHT ON BOTH SIDES. BRIDGING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND TYPICAL BRIDGING DETAILS. ALL EXTERIOR WALLS SHALL HAVE BRIDGING PER TYPICAL BRIDGING DETAILS.

15. SCREWS SHALL BE SELF-DRILLING/SELF-TAPPING STEEL SCREWS INSTALLED IN ACCORDANCE WITH THE A.I.S.I.-N.A.S. SCREWS SHALL HAVE SUFFICIENT LENGTH TO ENSURE A MINIMUM OF 3 FULL THREADS SHOWING AFTER PENETRATION OF JOINED LIGHT GAUGE MATERIALS. SCREWS SHALL HAVE A MINIMUM OF 1" EDGE/SPACING DISTANCE. THE MINIMUM SCREW HEAD DIAMETER SHALL BE 5/16", AND SCREW SIZES SHALL CONFORM TO THE FOLLOWING, U.N.O.:

METAL TO METAL FASTENER SIZE

METAL THICKNESS "T"	SCREW TYPE
T < 12 GA.	#10 NV #3 POINT
12 GA. < T < 3/16"	#12 NV #3 POINT
3/16" < T < 5/16"	1/4" DIA. NV #4 POINT

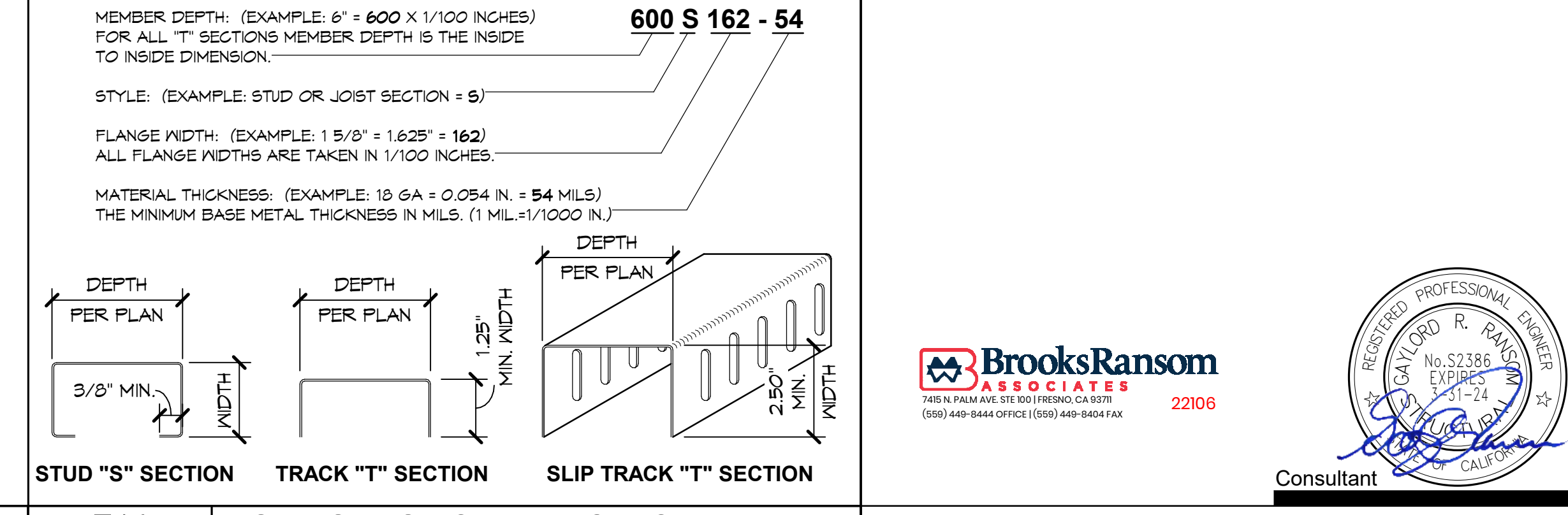
16. LIGHT GAUGE STEEL CONTRACTOR SHALL PROVIDE ALL ACCESSORIES INCLUDING, BUT NOT LIMITED TO, TRACKS, CLIPS, WEB STIFFENERS, ANCHORS, FASTENING DEVICES, RESILIENT CLIPS AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE AND PROPER INSTALLATION, AND AS RECOMMENDED BY THE MANUFACTURER FOR THE STEEL MEMBERS BEING USED.

17. STEEL TRACKS THAT OCCUR UNDER ALL EXTERIOR CURTAIN WALLS, BEARING WALLS AND SHEAR WALLS SHALL BE BOLTED TO MASONRY OR CONCRETE WITH 5/8"Ø X 12" BOLTS SPACED NOT MORE THAN 5'-0" ON CENTER, WITH A MIN. OF 2 BOLTS FOR EACH PIECE OF TRACK, U.N.O. USE STANDARD STEEL PLATE WASHERS AT EACH BOLT LOCATION.

18. ALL ANCHOR BOLTS IN STEEL TRACKS SHALL BE 4 INCH MINIMUM AND 12 INCH MAXIMUM FROM THE END OF THE TRACK AND HAVE 1 INCH MINIMUM EMBEDMENT INTO CONCRETE OR MASONRY. ANY LOCATION WHERE A HOLE OR NOTCH OCCURS THROUGH A TRACK FLANGE, TRACK SHALL HAVE AN ADDITIONAL ANCHOR BOLT PLACED 4 INCHES TO 12 INCHES ON EACH SIDE OF THE HOLE OR NOTCH.

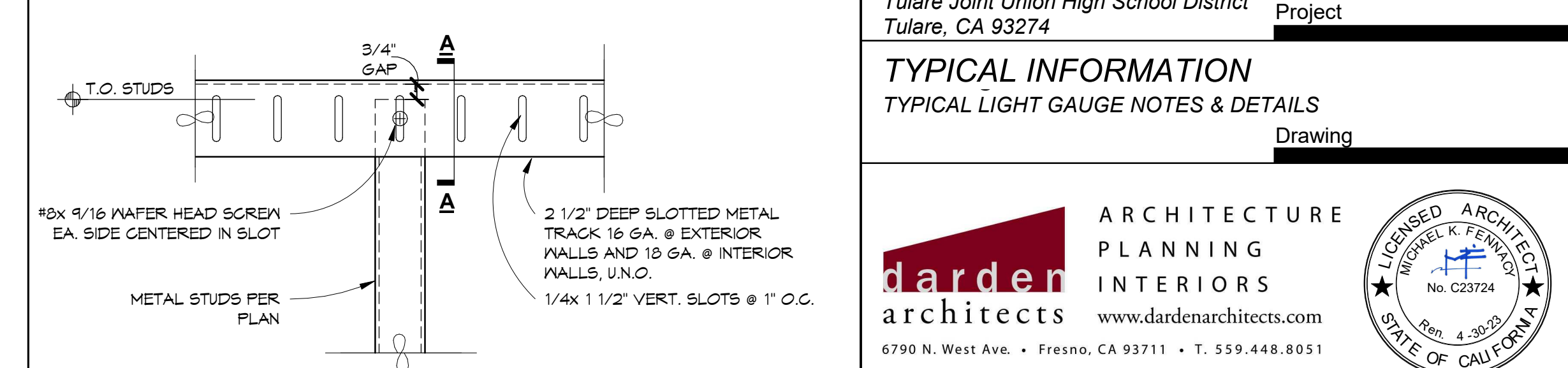
19. ALL ANCHOR BOLTS SHALL BE MACHINE MADE TYPE F1554 GRADE 36 U.N.O. BOLTS WITH UPSET THREADS ARE NOT PERMITTED.

20. ALL STEEL FRAMING MEMBERS SHALL BE DESIGNATED ON PLANS WITH THE S.S.M.A. STUD AND TRACK SECTION NOMENCLATURE AS DESCRIBED BELOW:



E14 LIGHT GAUGE STEEL NOTES

X/S107 NOT TO SCALE



A14 SLIP TRACK FOR NON-BRG LT GA STL.

X/S107 NOT TO SCALE

Mission Oak HS Aquatic Complex
 Tulare Joint Union High School District
 Tulare, CA 93274

Project

TYPICAL INFORMATION
 TYPICAL LIGHT GAUGE NOTES & DETAILS
 Drawing

ARCHITECTURE
 PLANNING
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ARCHITECT

No. Revision/Submission Date

Revision

Designed By: ESB Copyright Darden Architects

Scale: As indicated Drawn By: ESB

Project Number: 2180 Checked By: ESB

Date: 11/16/2022 Reviewed By: ESB

X/S107

Sheet: of:

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DSA File No.:
02-120251
Agency Approval

1. SEE TYPICAL SHEETS FOR ALL GENERAL AND MATERIAL NOTES, AND ALL TYPICAL SCHEDULES AND DETAILS. THE INFORMATION ON THE TYPICAL SHEETS APPLY TO THE PROJECT AND ARE NOT SPECIFICALLY REFERENCED ON PLAN WORK, UNLESS NOTED OTHERWISE. IF TYPICAL DETAILS ARE SPECIFIED ON PLANS OR NOTES, THEY WILL BE REFERENCED WITH THE WORD "TYPICAL" FOLLOWED BY **BOLD AND UNDERLINED** TEXT STATING THE TITLE OF THE TYPICAL DETAIL OR NOTE.
2. ALL DIMENSIONS SHOWN ARE TO FACE OF EXTERIOR WALLS, CENTER OF COLUMN OR CENTER OF INTERIOR WALLS UNLESS NOTED OTHERWISE. EDGE OF SLAB AT PERIMETER OF BUILDING SHALL BE INDICATED IN SPECIFIC DETAILS AND ARCHITECTURAL. VERIFY ALL BUILDING DIMENSIONS WITH ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. NOTIFY THE ARCHITECT IMMEDIATELY IF THERE ARE ANY CONFLICTS WITH THE DIMENSIONS SHOWN.
3. ALL UNCLEAR AND/OR MISSING DETAILS SHALL BE BROUGHT TO THE STRUCTURAL ENGINEER'S ATTENTION BEFORE PROCEEDING WITH CONSTRUCTION.
4. ALL PAD AND CONTINUOUS FOOTINGS ARE TO BE CENTERED ON WALLS AND COLUMNS ABOVE UNLESS NOTED OTHERWISE.
5. SEE CIVIL AND/OR ARCHITECTURAL SITE PLAN FOR LOCATION AND DIMENSIONS OF SIDEWALKS, MOY STRIPS, PLANTERS AND OTHER LANDSCAPING FEATURES.
6. SEE ARCHITECTURAL AND PLUMBING PLANS FOR LOCATION OF ALL PIPING AND DRAINS. SEE TYPICAL DETAILS FOR STRUCTURAL REQUIREMENTS AT LOCATIONS WHERE PIPES INTERSECT OR ALIGN NEXT TO FOOTINGS AND SLABS.
7. ALL EMBEDDED ITEMS SHALL BE IN PLACE AND SECURED PRIOR TO POURING OF CONCRETE.
8. ALL SILL PLATE ANCHOR BOLTS SHALL BE SIZED, SPACED, PLACED, AND HAVE THE WASHER AND MATERIAL FINISH AS SPECIFIED IN THE **LIGHT GAUGE STEEL NOTES**.
9. CONTRACTOR SHALL SUBMIT CONTROL JOINT PLAN FOR APPROVAL PRIOR TO POURING SLAB. SEE TYPICAL **CONTROL JOINT** DETAIL FOR ADDITIONAL INFORMATION.
10. SEE TYPICAL **CMU WALL CONTROL JOINT LAYOUT REQUIREMENTS** DETAIL AND ARCHITECTURAL PLANS FOR LOCATION OF CONTROL JOINTS. NOTIFY THE ARCHITECT IMMEDIATELY IF THERE ARE ANY CONFLICTS WITH THE CONTROL JOINT LAYOUT.
11. ALL TOP OF FOOTINGS SHALL BE 1'-8" BELOW FINISH SLAB, UNLESS NOTED OTHERWISE.

N14 FOUNDATION NOTES
P/S201 NOT TO SCALE

- CONCRETE CURB. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 8" CMU WALL WITH #5 BARS AT 24" O.C. VERT. AND HORIZ. U.N.O. SEE TYPICAL **CONCRETE MASONRY UNIT WALL CONSTRUCTION** DETAIL.
- CONTROL JOINT. SEE TYPICAL **CMU WALL CONTROL JOINT REQUIREMENTS** DETAIL FOR ADDITIONAL INFORMATION.
- 186A STEEL STUDS (S162 MIN. FLANGE) AT 16" O.C. AT INTERIOR WALL LOCATIONS. SEE ARCHITECTURAL AND TYPICAL **WALL FRAMING AT OPENINGS FOR LIGHT GAUGE STEEL** DETAIL.
- "XX" AS INDICATED ON PLAN. SEE TYPICAL **SCHEDULES** AS FOLLOWS:
C# - COLUMN SCHEDULE
F# - PLASTER SCHEDULE
W# - WALL SCHEDULE
F# - FOUNDATION SCHEDULE
- TOP OF FOOTING (T.O.F.) OR BOTTOM OF FOOTING (B.O.F.). "X-X" IS THE DISTANCE FROM FINISHED FIRST FLOOR, UNLESS NOTED OTHERWISE.
- STEPPED FOOTING. SEE TYPICAL **STEPPED FOOTING** DETAIL.
- DEPRESSED SLAB. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- CONCRETE SLAB. PROVIDE 5" THICK MINIMUM SLAB WITH #4 AT 18" O.C. EACH WAY, U.N.O. SLAB SHALL BE PLACE OVER 1" TO 2" OF SATURATED SURFACE DRY (SSD) SAND OVER 10 MIL VAPOR RETARDING MEMBRANE. SEE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.

J7 FOUNDATION PLAN - BUILDING P2
P/S202 P/S201 1/8" = 1'-0"

J14 FOUNDATION LEGEND
P/S201 NOT TO SCALE

STRUCTURAL FOUNDATION SCHEDULE		
MARK	TYPE	REINFORCEMENT
F5	5'-0" SQ. X 1'-6" DEEP	(7) #5 BARS EACH WAY TOP AND BOTTOM
F1.5	1'-6" SQ. X 2'-0" DEEP	(13) #5 BARS EACH WAY TOP & BOTTOM
PF4	4'-0" Ø X 1'-0" DEEP	(24) #5 VERTICAL BARS W/ #4 TIES AT 6" O.C.
WF2	2'-0" WIDE X 1'-6" DEEP CONT.	(3) #5 BARS TOP & BOTTOM
WF5	5'-0" WIDE X 1'-6" DEEP CONT.	SEE TYPICAL N11/X/S104

STRUCTURAL COLUMN SCHEDULE		
MARK	TYPE	COMMENTS
C4	H564X4X1/4	SEE TYPICAL A14/X/S105 FOR ADD'L INFO.
C5	H565X8X1/4	SEE TYPICAL A14/X/S105 FOR ADD'L INFO.
C8	H565X8X3/8	SEE TYPICAL A14/X/S105 FOR ADD'L INFO.
C10	H510X10X5/8	SEE DETAIL A11/P/S501 FOR ADD'L INFO.
F4	H564X4X1/4	SEE DETAIL J4/P/S601 FOR ADD'L INFO.

E14 SCHEDULES
NOT TO SCALE

BrooksRansom ASSOCIATES
22106
1600 440-BAY OFFICE (818) 440-8400 FAX

CONSULTANT

Mission Oak HS Aquatic Complex
Tulare Joint Union High School District
Tulare, CA 93274

Project

Building P
FOUNDATION PLANS

Drawing

darden architects ARCHITECTURE PLANNING INTERIORS
www.dardenarchitects.com
6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051

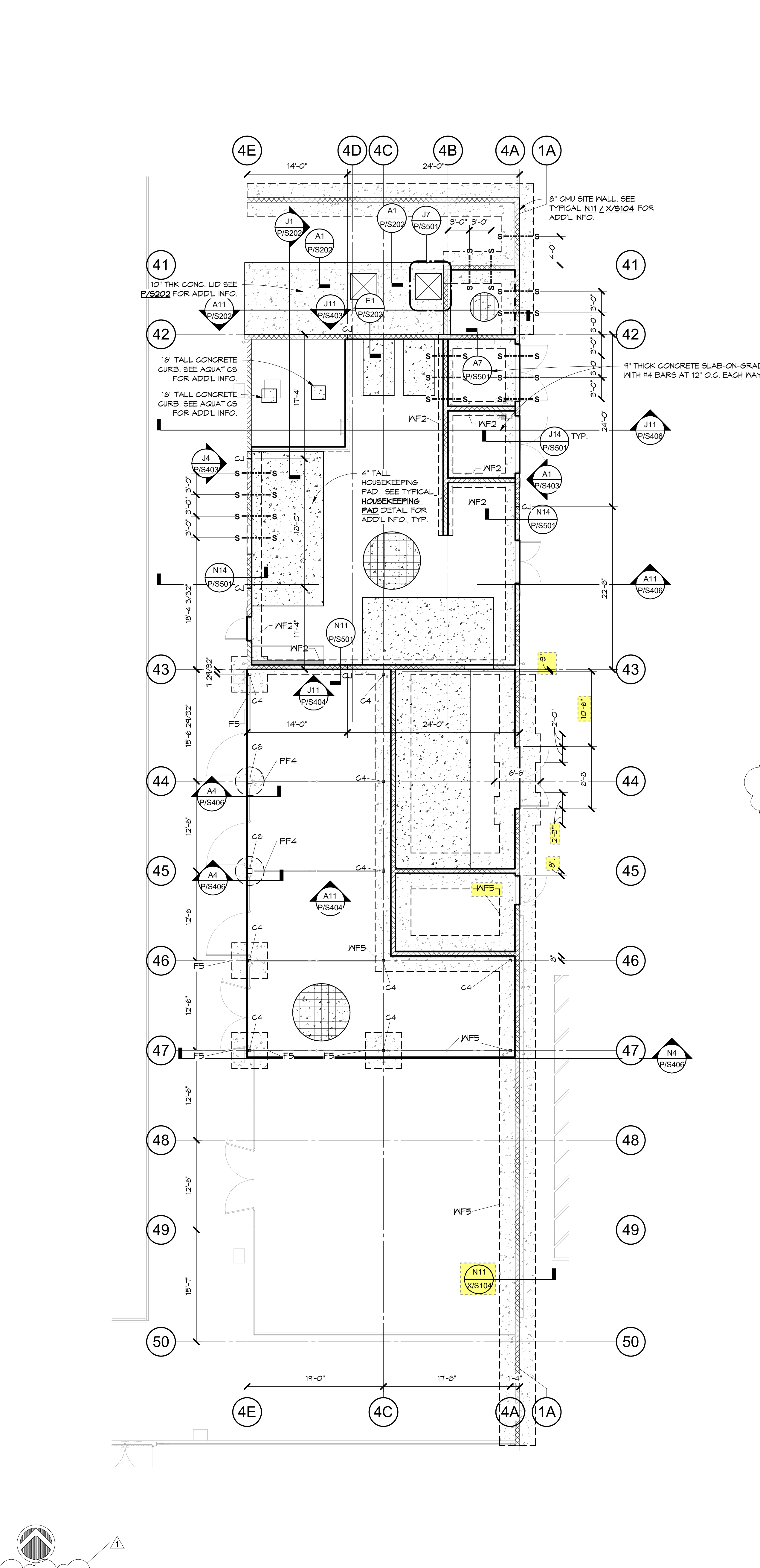
ARCHITECT

No.	Revision/Submission	Date
1	REVISION 1	05/31/2023

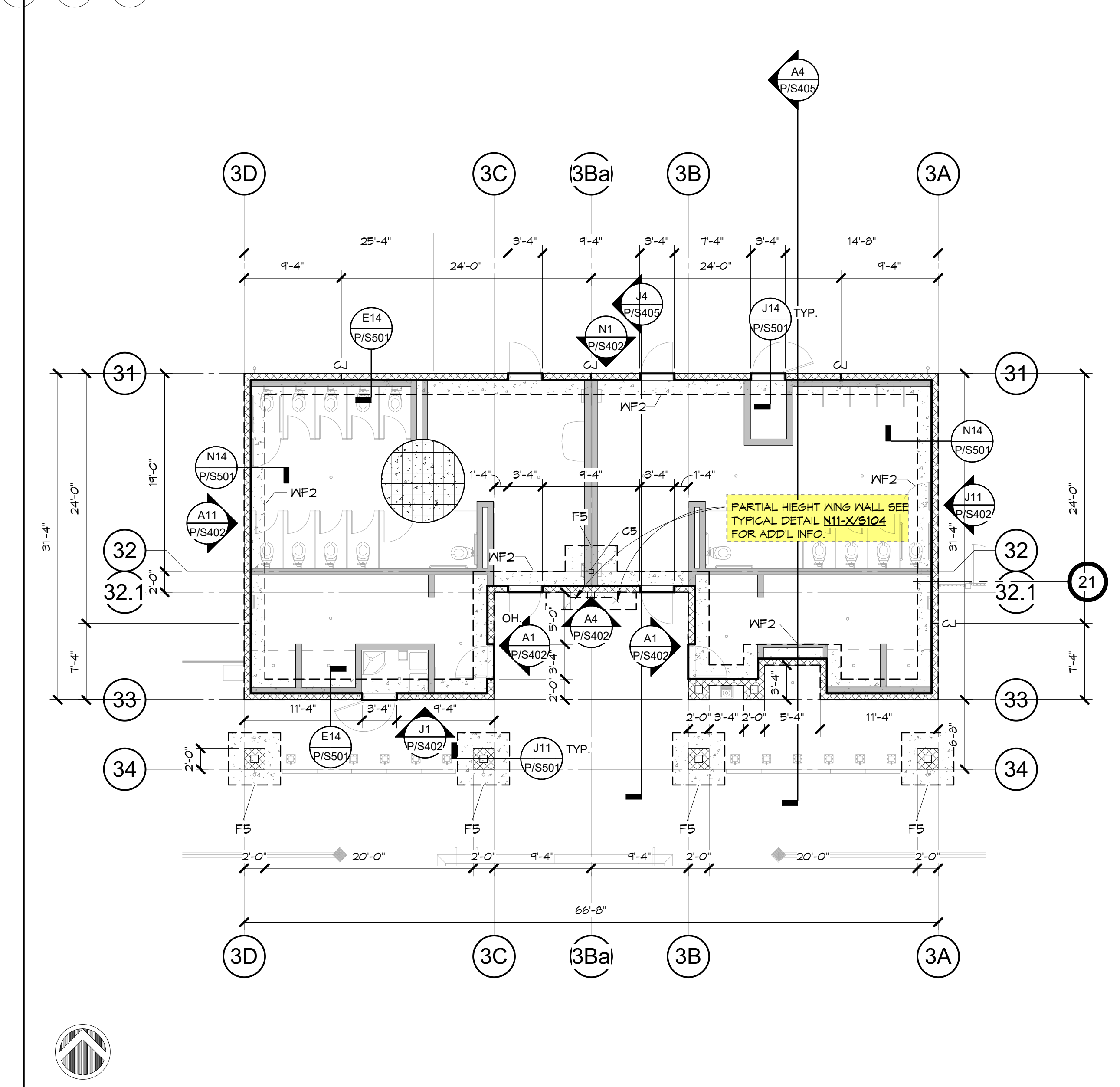
Revision

Designed By: ESB	Copyright	Darden Architects
Scale: As indicated	Drawn By: ESB	P/S201
Project Number: 2180	Checked By: ESB	
Date: 11/16/2022	Reviewed By: ESB	

Sheet: _____ of: _____



A1 FOUNDATION PLAN - BUILDING P4
P/S202 P/S201 1/8" = 1'-0"



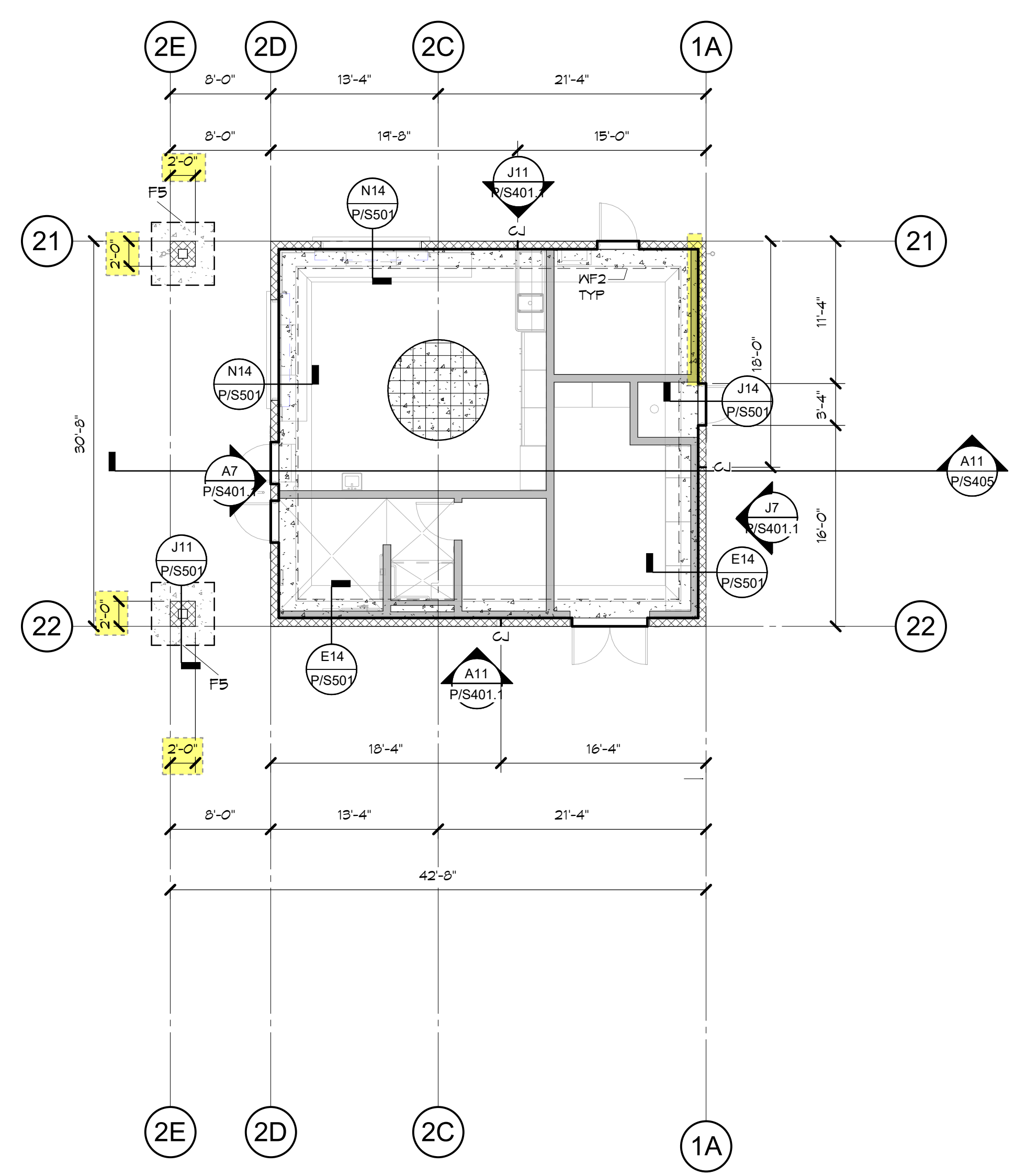
A7 FOUNDATION PLAN - BUILDING P3
P/S202 P/S201 1/8" = 1'-0"

8/18/2023 10:59:47 AM
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CONSTRUCTION SET

APPROVED BY THE STATE ARCHITECT
APP: 02-120251, INC.
REVIEWED FOR
68 02 PLS 01 ACS 01
DATE: 08/28/2023

DSA File No.:
DSA Application No.: 02-120251
Agency Approval



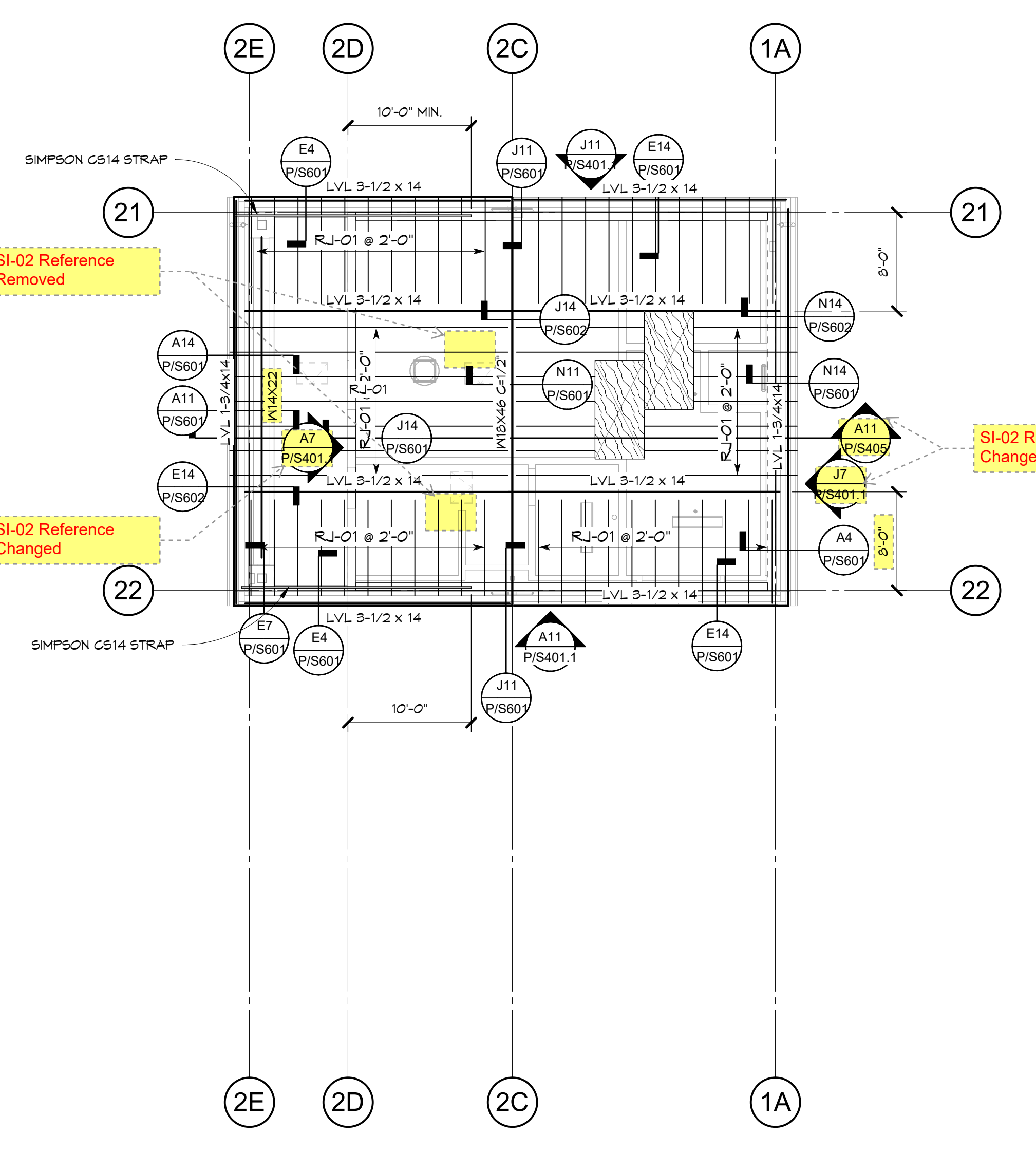
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6. SEE ARCHITECTURAL AND PLUMBING PLANS FOR LOCATION OF ALL PIPING AND DRAINS. SEE TYPICAL DETAILS FOR STRUCTURAL REQUIREMENTS AT LOCATIONS WHERE PIPES INTERSECT OR ALIGN NEXT TO FOOTINGS AND SLABS.
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8. ALL SILL PLATE ANCHOR BOLTS SHALL BE SIZED, SPACED, PLACED, AND HAVE THE WASHER AND MATERIAL FINISH AS SPECIFIED IN THE **LIGHT GAUGE STEEL NOTES**.
9. CONTRACTOR SHALL SUBMIT CONTROL JOINT PLAN FOR APPROVAL PRIOR TO POURING SLAB. SEE TYPICAL **CONTROL JOINT** DETAIL FOR ADDITIONAL INFORMATION.
10. SEE TYPICAL **CMU WALL CONTROL JOINT LAYOUT REQUIREMENTS** DETAIL AND ARCHITECTURAL PLANS FOR LOCATION OF CONTROL JOINTS. NOTIFY THE ARCHITECT IMMEDIATELY IF THERE ARE ANY CONFLICTS WITH THE CONTROL JOINT LAYOUT.
11. ALL TOP OF FOOTINGS SHALL BE 1'-0" BELOW FINISH SLAB, UNLESS NOTED OTHERWISE.
12. ALL TOP OF FRAMING ABOVE FINISH SLAB VARIES. SEE PLAN FOR INFORMATION.
13. VERIFY ROOF SLOPE(S) WITH ARCHITECTURAL PLANS.
14. ALL FRAMING SHALL BE D.F. NO. 1 OR BETTER, UNLESS OTHERWISE NOTED. SEE TYPICAL **WOOD NOTES** ADDITIONAL INFORMATION.
15. COORDINATE WITH ARCHITECTURAL IF ADDITIONAL FRAMING BLOCKING IS REQUIRED FOR SUSPENDED CEILING, SOFFITS AND FINISHES.
16. DAPHRAGM SHEATHING SHALL BE BOUNDARY NAILED TO ALL BLOCKING, BEAM AND RAFTERS THAT ARE IN LINE WITH SHEAR WALLS.
17. WHERE HEADERS ARE NOT SPECIFICALLY NOTED ON PLAN, SEE TYPICAL **WALL FRAMING AT OPENINGS** DETAIL FOR HEADER INFORMATION.
18. ALL ITEMS ARE NEW UNLESS NOTED OTHERWISE.

L14 PLAN NOTES

- P/S201.1 NOT TO SCALE
- CONCRETE CURB. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
 - 8" CMU WALL WITH #5 BARS AT 24" O.C. VERT. AND HORIZ. U.N.O. SEE TYPICAL **CONCRETE MASONRY UNIT WALL CONSTRUCTION** DETAIL.
 - CONTROL JOINT. SEE TYPICAL **CMU WALL CONTROL JOINT REQUIREMENTS** DETAIL FOR ADDITIONAL INFORMATION.
 - 18 GA. STEEL STUDS (#162 MIN. FLANGE) AT 16" O.C. AT INTERIOR WALL LOCATIONS. SEE ARCHITECTURAL AND TYPICAL **WALL FRAMING AT OPENINGS FOR LIGHT GAUGE STEEL** DETAIL.
 - "XX" AS INDICATED ON PLAN. SEE TYPICAL **SCHEDULES** AS FOLLOWS:
C# - COLUMN SCHEDULE
P# - PLASTER SCHEDULE
W# - WALL SCHEDULE
F# - FOUNDATION SCHEDULE
 - T.O.F. -X-X' TOP OF FOOTING (T.O.F.) OR BOTTOM OF FOOTING (B.O.F.). "X-X" IS THE DISTANCE FROM FINISHED FIRST FLOOR, UNLESS NOTED OTHERWISE.
 - STEPPED FOOTING. SEE TYPICAL **STEPPED FOOTING** DETAIL.
 - DEPRESSED SLAB. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
 - CONCRETE SLAB. PROVIDE 5" THICK MINIMUM SLAB WITH #4 AT 18" O.C. EACH WAY, U.N.O. SLAB SHALL BE PLACE OVER 1" TO 2" OF SATURATED SURFACE DRY (SSD) SAND OVER 10 ML VAPOR RETARDING MEMBRANE. SEE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.
 - WALL BELOW. SEE FRAMING PLAN AT LEVEL BELOW.
 - "XX" AS INDICATED ON PLAN. SEE TYPICAL **SCHEDULES** AS FOLLOWS:
C# - COLUMN SCHEDULE
P# - PLASTER SCHEDULE
W# - WALL SCHEDULE
F# - FOUNDATION SCHEDULE
 - T.O.S. -X-X' TOP OF STEEL (T.O.S.) OR BOTTOM OF STEEL (B.O.S.). "X-X" IS THE DISTANCE FROM FINISHED FIRST FLOOR, UNLESS NOTED OTHERWISE.
 - STEEL BEAM.
 - ROOF SHEATHING. BLOCKED. PROVIDE 5/8" THICK SHEATHING WITH 10G NAILS @ 6:6:12 U.N.O. SEE TYPICAL **ROOF SHEATHING** DETAIL.
 - PANEL EDGE
 - CONTINUOUS PANEL EDGE & BOUNDARY

J7 FOUNDATION PLAN - BUILDING P2 ALT BID

P/S202 P/S201.1 1/8" = 1'-0"



E14 PLAN LEGEND

P/S201.1 NOT TO SCALE

STRUCTURAL FOUNDATION SCHEDULE		
MARK	TYPE	REINFORCEMENT
F5	5'-0" SQ. x 1'-6" DEEP	(7) #5 BARS EACH WAY TOP AND BOTTOM
F1.5	1'-6" SQ. x 2'-0" DEEP	(13) #5 BARS EACH WAY TOP & BOTTOM
PF4	4'-0" Ø x 1'-0" DEEP	(24) #8 VERTICAL BARS W/ #4 TIES AT 6" O.C.
WF2	2'-0" WIDE x 1'-6" DEEP CONT.	(3) #5 BARS TOP & BOTTOM
WF5	5'-0" WIDE x 1'-6" DEEP CONT.	SEE TYPICAL N11/X/S104

STRUCTURAL COLUMN SCHEDULE		
MARK	TYPE	COMMENTS
C4	H564X4X1/4	SEE TYPICAL A14/X/S105 FOR ADD'L INFO.
C5	H565X5X1/4	SEE TYPICAL A14/X/S105 FOR ADD'L INFO.
C8	H568X8X3/8	SEE TYPICAL A14/X/S105 FOR ADD'L INFO.
C10	H5610X10X5/8	SEE DETAIL A11/P/S501 FOR ADD'L INFO.
P4	H564X4X1/4	SEE DETAIL J4/P/S601 FOR ADD'L INFO.

A7 ROOF FRAMING PLAN - BUILDING P2 ALT BID

P/S403 P/S201.1 1/8" = 1'-0"

A14 SCHEDULES

NOT TO SCALE

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Raymond R. Darden
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No. 52386
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Consultant

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Project

Building P

ALTERNATE BID - BUILDING P2

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Architect

No.	Revision/Submission	Date
1	REVISION_1	05/31/2023

Revision

Scale: As indicated	Drawn By: Author	P/S201.1
Project Number: 2180	Checked/Checker:	Sheet: _____ of: _____
Date: 11/16/2022	Review/Approver:	

8/18/2023 10:50:51 AM
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CONSTRUCTION SET

APPROVED
BY THE STATE ARCHITECT
APP: 02-120251, INC.
REVIEWED FOR
68 E.P. P/S/01 ACS/EI
DATE: 08/28/2023

DSA File No.:
DSA Application No.:
02-120251
Agency Approval

1. SEE TYPICAL SHEETS FOR ALL GENERAL AND MATERIAL NOTES, AND ALL TYPICAL SCHEDULES AND DETAILS. THE INFORMATION ON THE TYPICAL SHEETS APPLY TO THE PROJECT AND ARE NOT SPECIFICALLY REFERENCED ON PLAN WORK, UNLESS NOTED OTHERWISE. IF TYPICAL DETAILS ARE SPECIFIED ON PLANS OR NOTES, THEY WILL BE REFERENCED WITH THE WORD "TYPICAL" FOLLOWED BY **BOLD AND UNDERLINED** TEXT STATING THE TITLE OF THE TYPICAL DETAIL OR NOTE.
2. ALL UNCLEAR AND/OR MISSING DETAILS SHALL BE BROUGHT TO THE STRUCTURAL ENGINEER'S ATTENTION BEFORE PROCEEDING WITH CONSTRUCTION.
3. ALL TOP OF FRAMING ABOVE FINISH SLAB VARIES, SEE PLAN FOR INFORMATION.
4. VERIFY ROOF SLOPE(S) WITH ARCHITECTURAL PLANS.
5. ALL FRAMING SHALL BE D.F. NO. 1 OR BETTER, UNLESS OTHERWISE NOTED. SEE TYPICAL **WOOD NOTES** ADDITIONAL INFORMATION.
6. COORDINATE WITH ARCHITECTURAL IF ADDITIONAL FRAMING BLOCKING IS REQUIRED FOR SUSPENDED CEILING, SOFFITS AND FINISHES.
7. DIAPHRAGM SHEATHING SHALL BE BOUNDARY NAILED TO ALL BLOCKING, BEAM AND RAFTERS THAT ARE IN LINE WITH SHEAR WALLS.
8. WHERE HEADERS ARE NOT SPECIFICALLY NOTED ON PLAN, SEE TYPICAL **WALL FRAMING AT OPENINGS** DETAIL FOR HEADER INFORMATION.
9. ALL ITEMS ARE NEW UNLESS NOTED OTHERWISE.

N14	FRAMING NOTES
P/S301	NOT TO SCALE
	8" CMU WALL WITH #5 BARS AT 24" O.C. VERT. AND HORIZ. U.N.O. SEE TYPICAL CONCRETE MASONRY UNIT WALL CONSTRUCTION DETAIL.
	WALL BELOW: SEE FRAMING PLAN AT LEVEL BELOW.
	"XX" AS INDICATED ON PLAN. SEE TYPICAL SCHEDULES AS FOLLOWS: C1 - COLUMN SCHEDULE P1 - PLASTER SCHEDULE W - WALL SCHEDULE F1 - FOUNDATION SCHEDULE
	T.O.S. +X-X" TOP OF STEEL (T.O.S.) OR BOTTOM OF STEEL (B.O.S.). "X-X" IS THE DISTANCE FROM FINISHED FIRST FLOOR, UNLESS NOTED OTHERWISE.
	SIZE (STUDS) CAMBER STEEL BEAM.
	ROOF SHEATHING, BLOCKED. PROVIDE 5/8" THICK SHEATHING WITH 10d NAILS @ 6" O.C. U.N.O. SEE TYPICAL ROOF SHEATHING DETAIL.
	FIELD
	PANEL EDGE
	CONTINUOUS PANEL EDGE & BOUNDARY
	METAL DECK. INDICATES DIRECTION OF DECKING. SEE TYPICAL METAL ROOF DECK NOTES AND TYPICAL DECK ATTACHMENT LAYOUT DETAILS FOR ADDITIONAL INFORMATION.

J14	FRAMING LEGEND
P/S301	NOT TO SCALE

STRUCTURAL COLUMN SCHEDULE		
MARK	TYPE	COMMENTS
C4	H554X4X1/4	SEE TYPICAL A14/X/S105 FOR ADD'L INFO.
C5	H558X3X1/4	SEE TYPICAL A14/X/S105 FOR ADD'L INFO.
C6	H558X3X3/8	SEE TYPICAL A14/X/S105 FOR ADD'L INFO.
C10	H5510X10X5/8	SEE DETAIL A11/P/S501 FOR ADD'L INFO.
P4	H554X4X1/4	SEE DETAIL J4/P/S601 FOR ADD'L INFO.

E14	SCHEDULE
	NOT TO SCALE

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Tulare, CA 93274

Building P
ROOF FRAMING PLANS

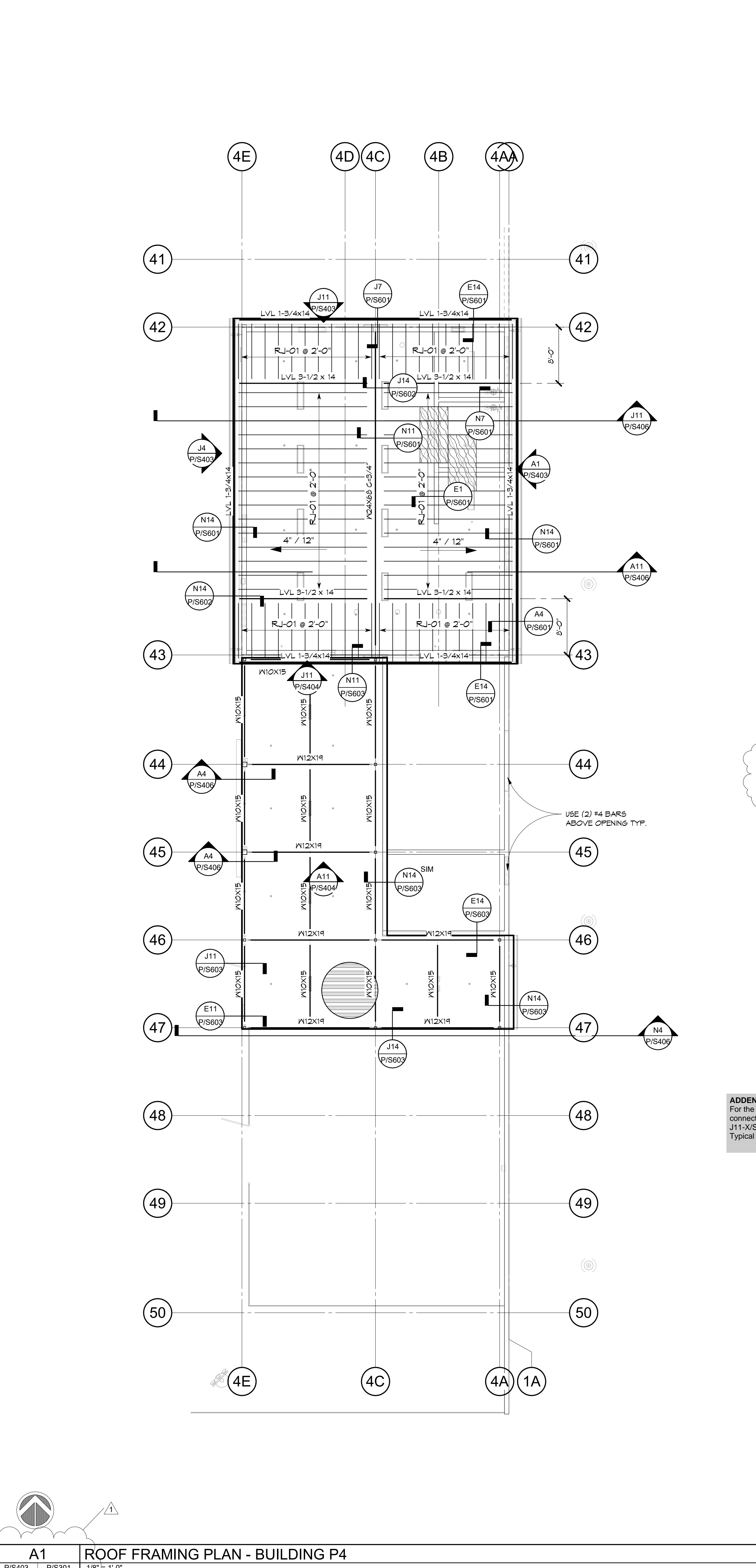
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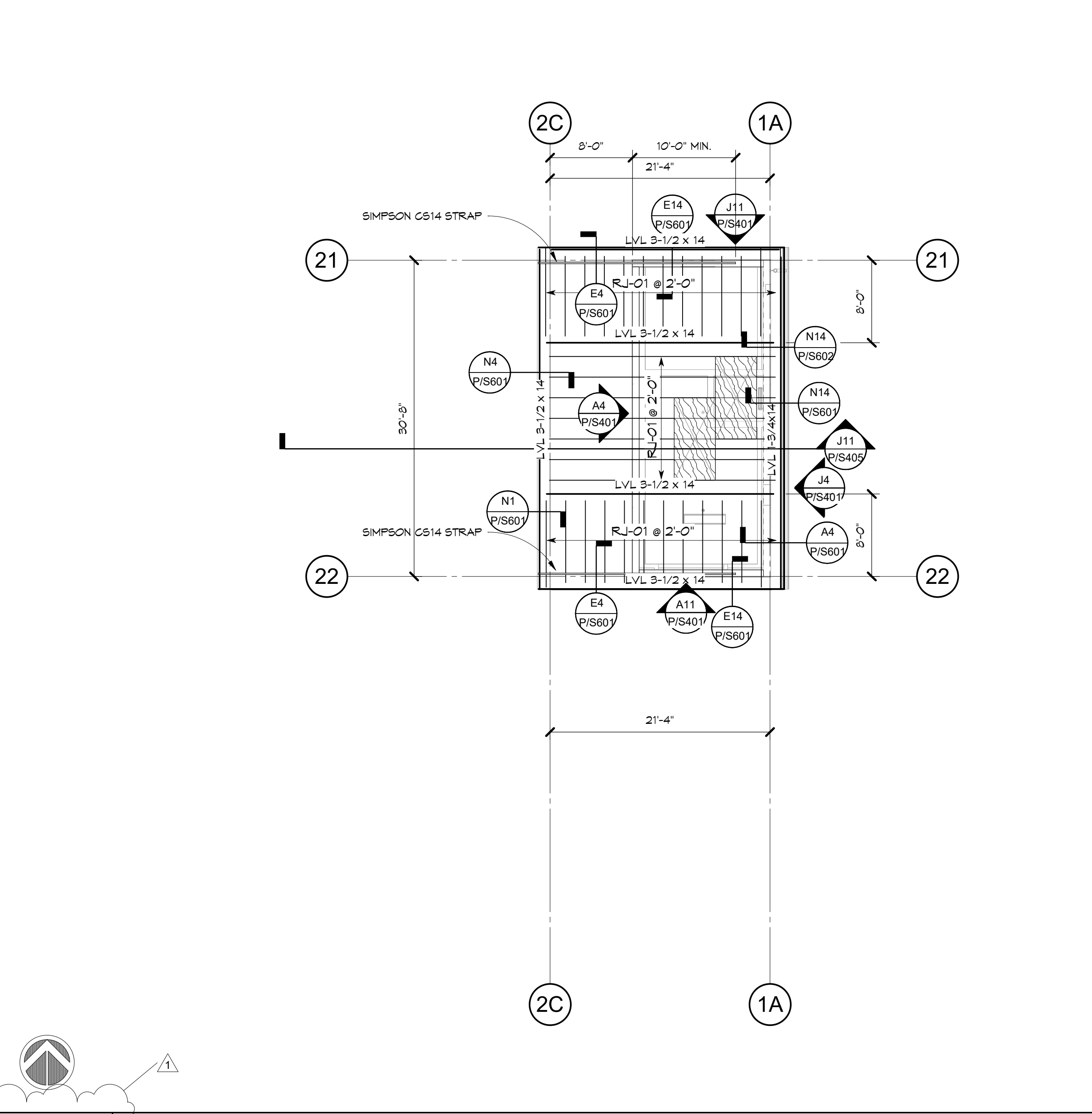
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1	REVISION 1	05/31/2023

Revision			
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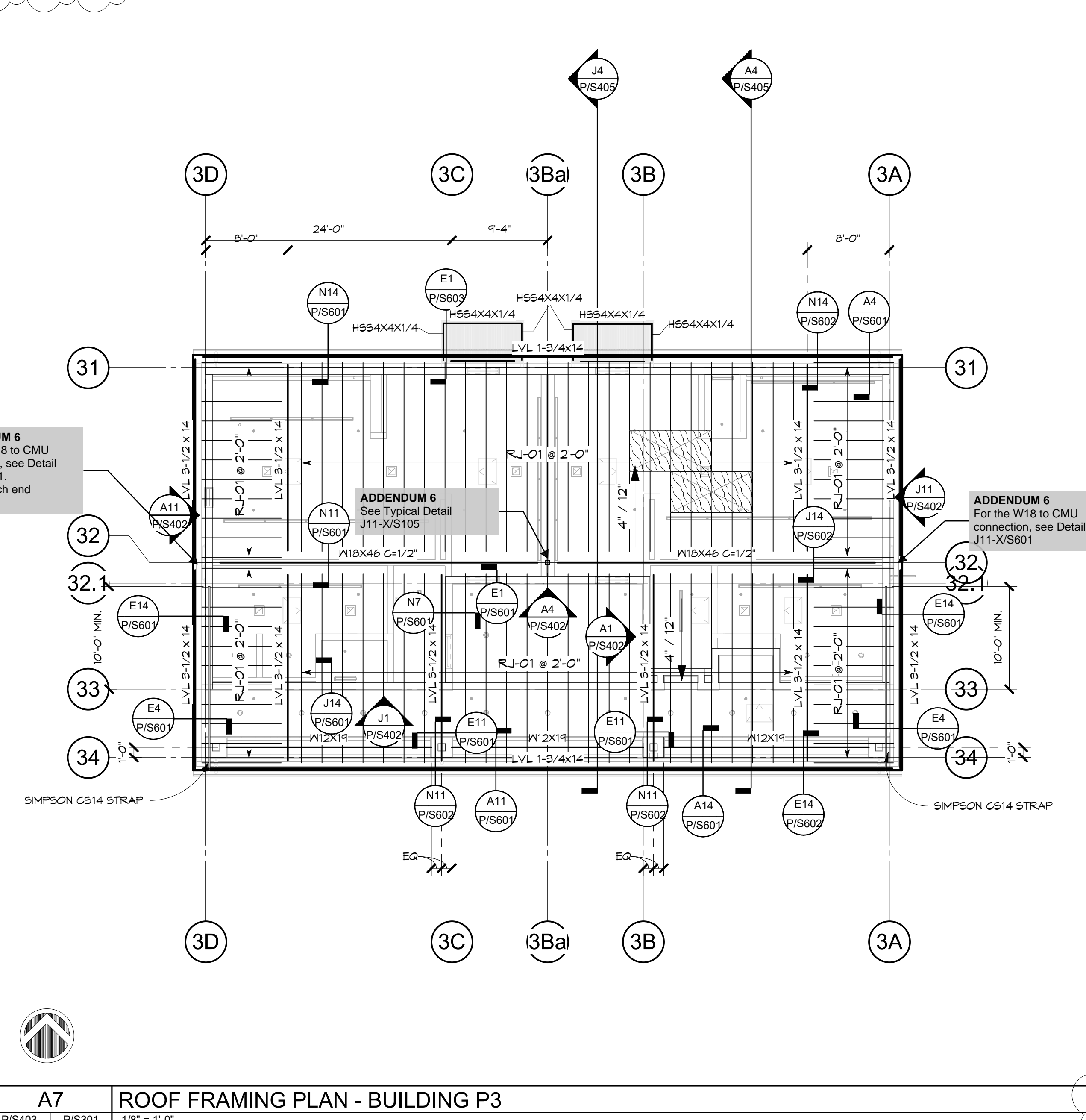
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Project Number: 2180	Checked By: ESB	
Date: 11/16/2022	Reviewed By: ESB	



A1	ROOF FRAMING PLAN - BUILDING P4
P/S403 P/S301	1/8" = 1'-0"



J7	ROOF FRAMING PLAN - BUILDING P2
P/S403 P/S301	1/8" = 1'-0"



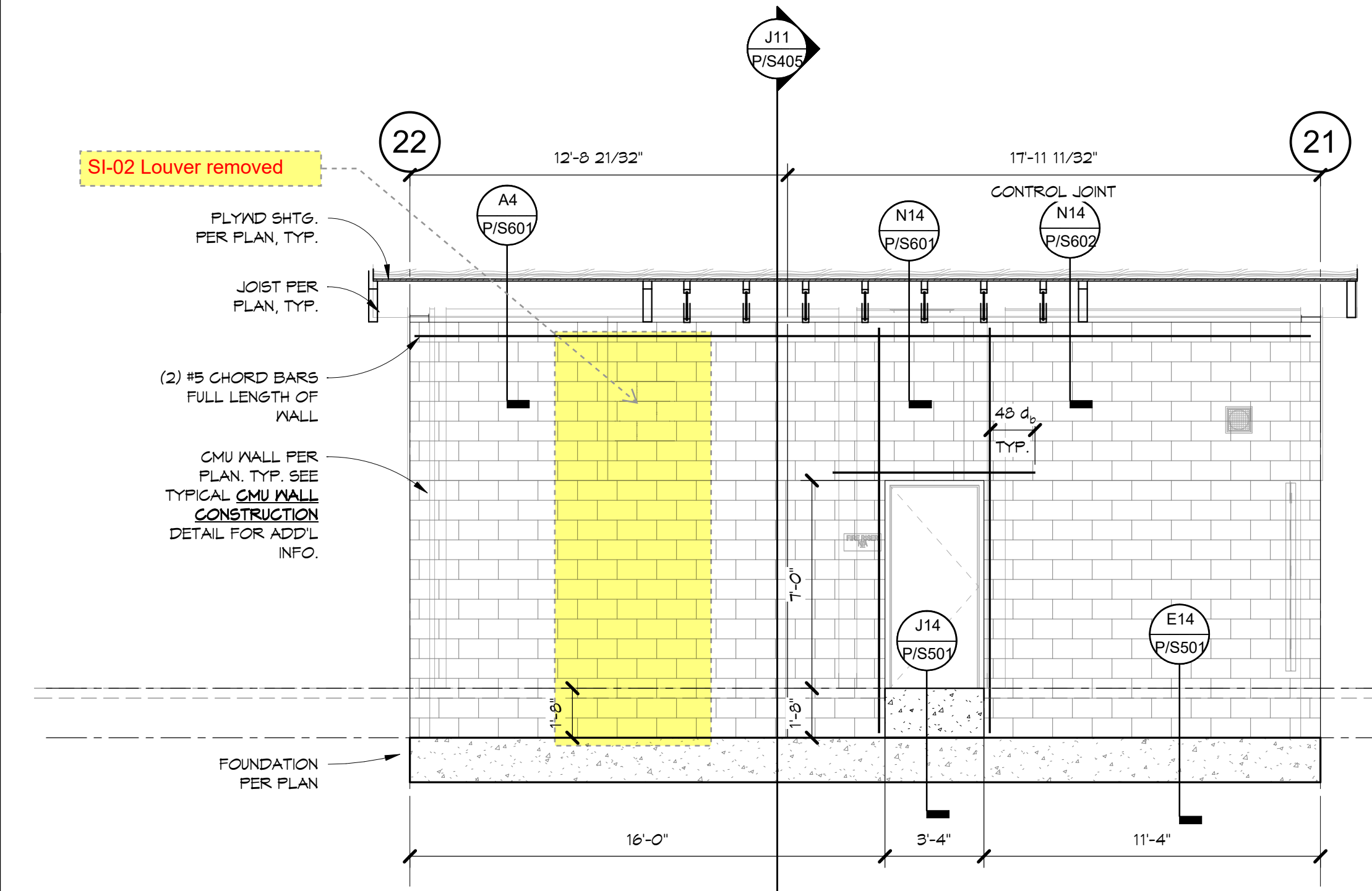
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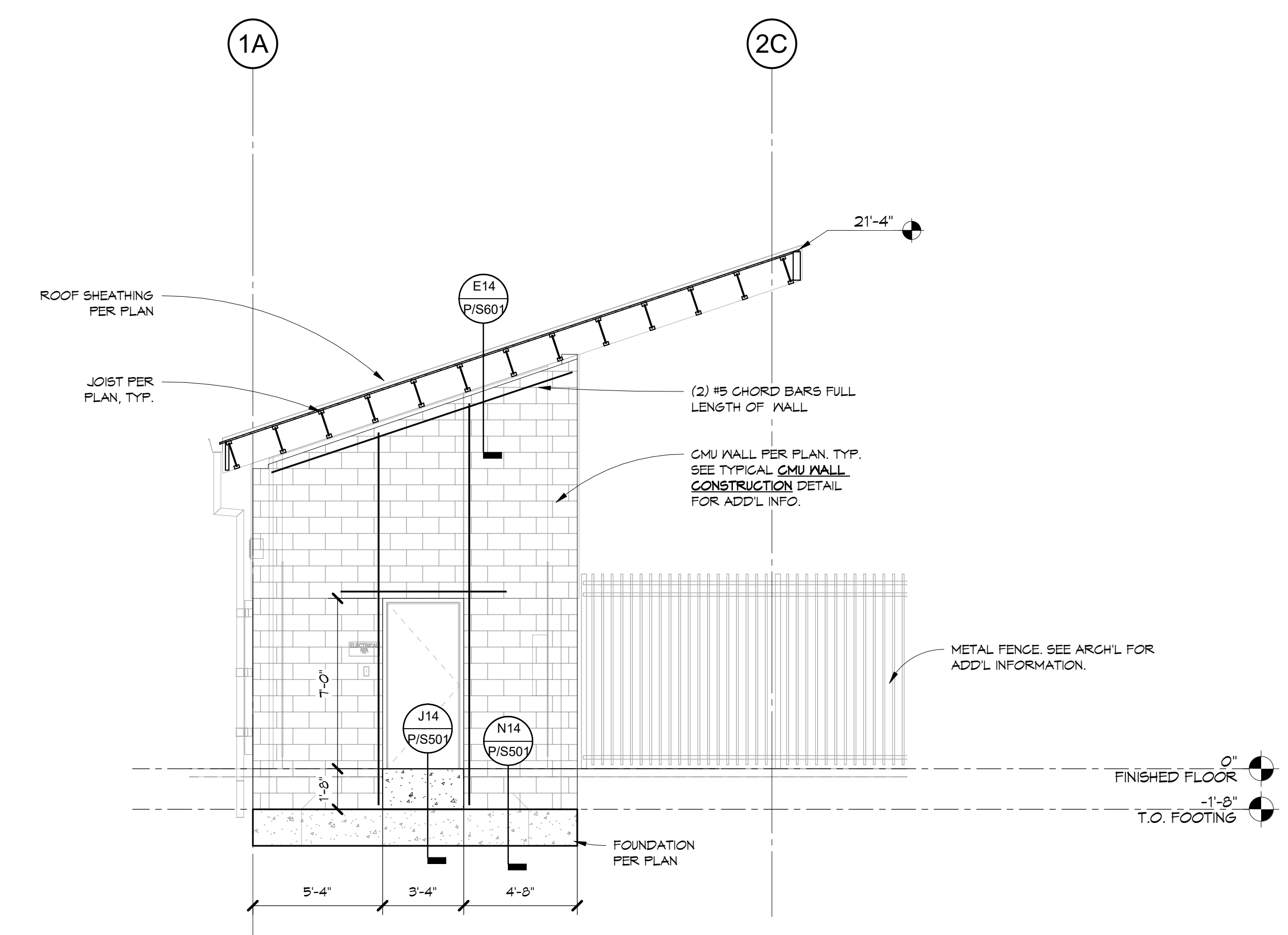
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DATE 08/28/2023

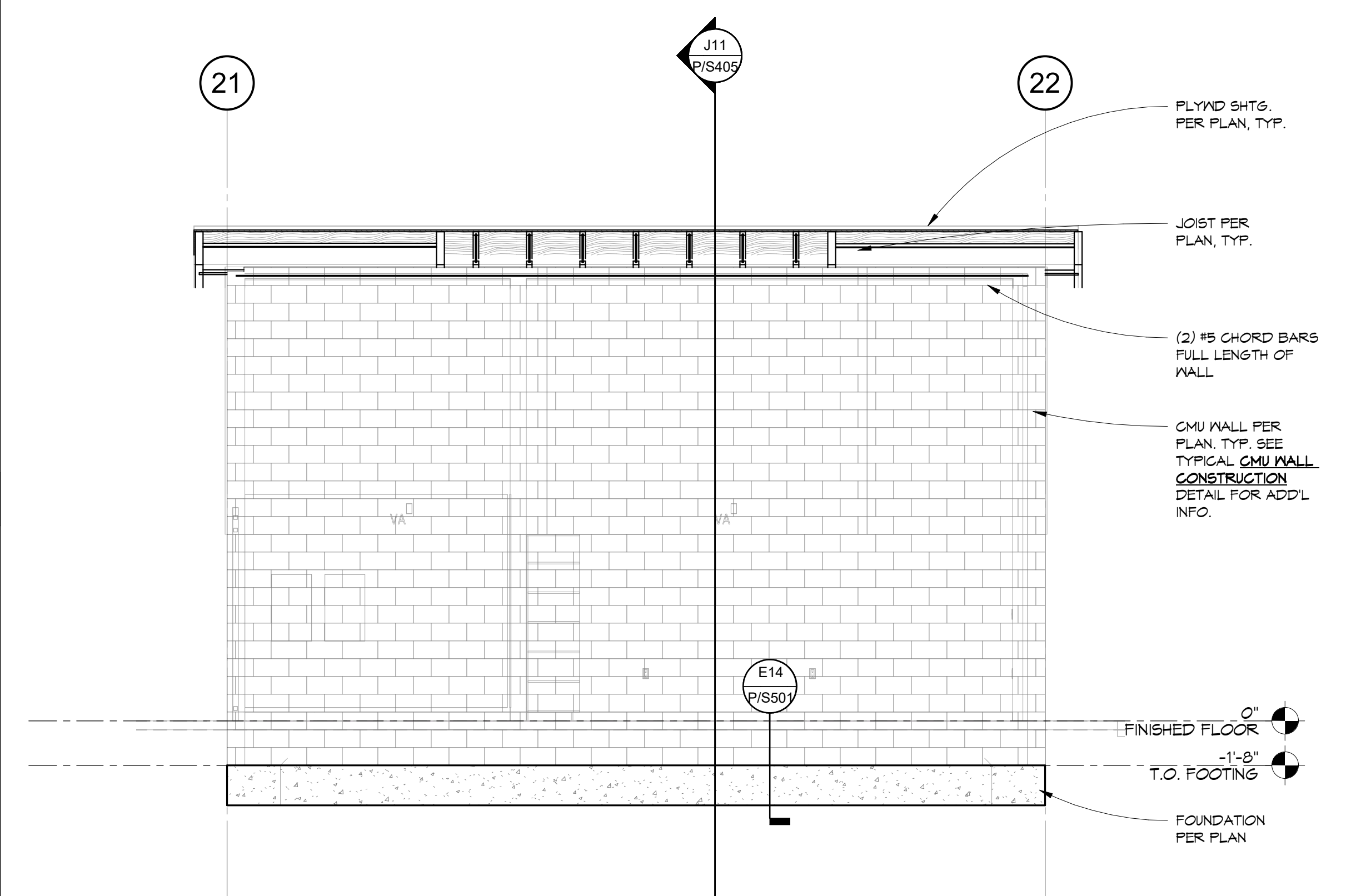
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02-120251
Agency Approval



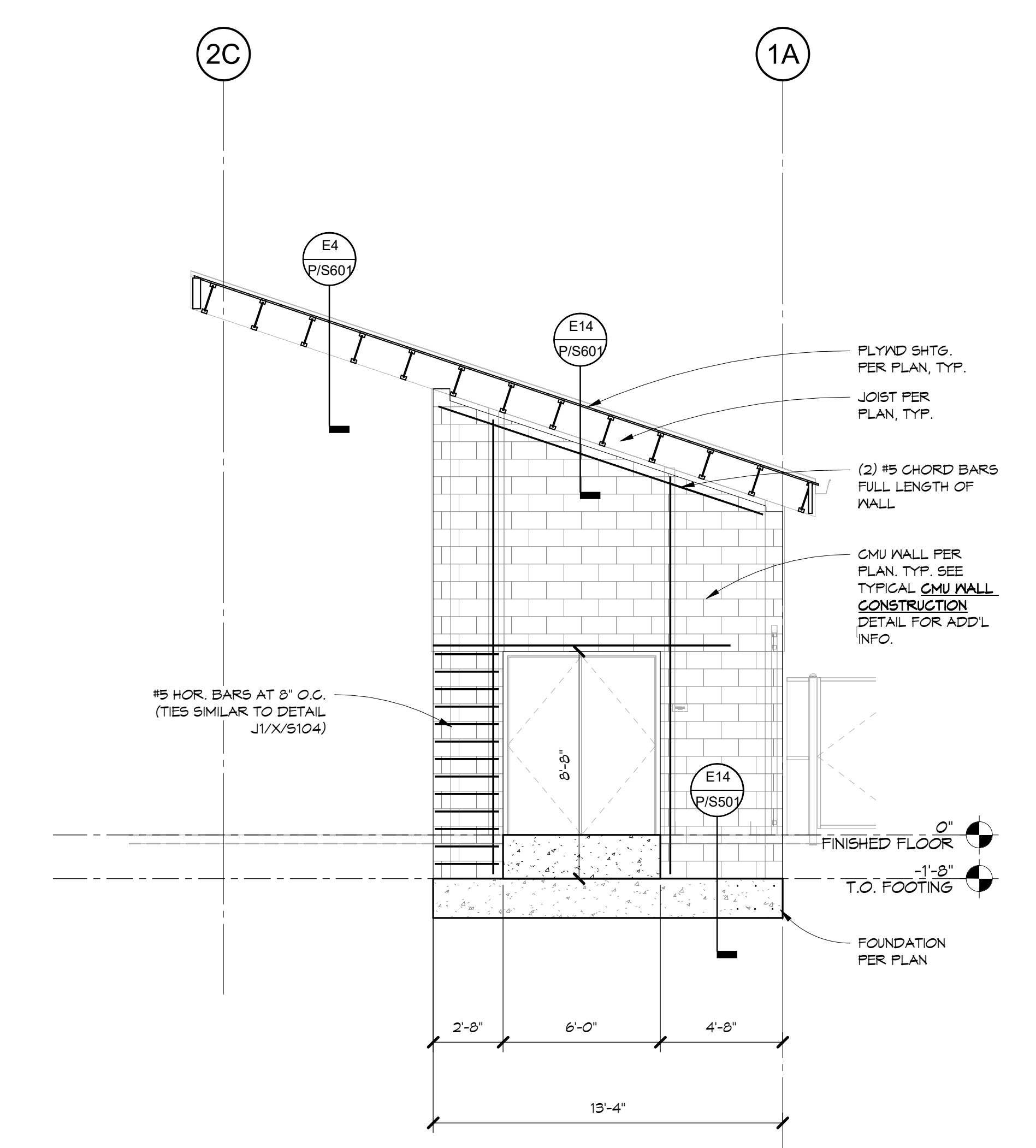
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J11 WALL ELEVATION AT GL '21' - P2
P/S201 P/S401 1/4" = 1'-0"



A4 WALL ELEVATION AT GL '2D' - P2
P/S201 P/S401 1/4" = 1'-0"



A11 WALL ELEVATION AT GL '22' - P2
P/S201 P/S401 1/4" = 1'-0"

BrooksRansom
ASSOCIATES
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(660) 448-8444 OFFICE (660) 448-8400 FAX
22106
CONSULTANT

Mission Oak HS Aquatic Complex
Tulare Joint Union High School District
Tulare, CA 93274
Project

Building P
WALL ELEVATIONS
Drawing

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1	REVISION_1	05/31/2023

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Date: 11/16/2022 Reviewer/Approver
P/S401
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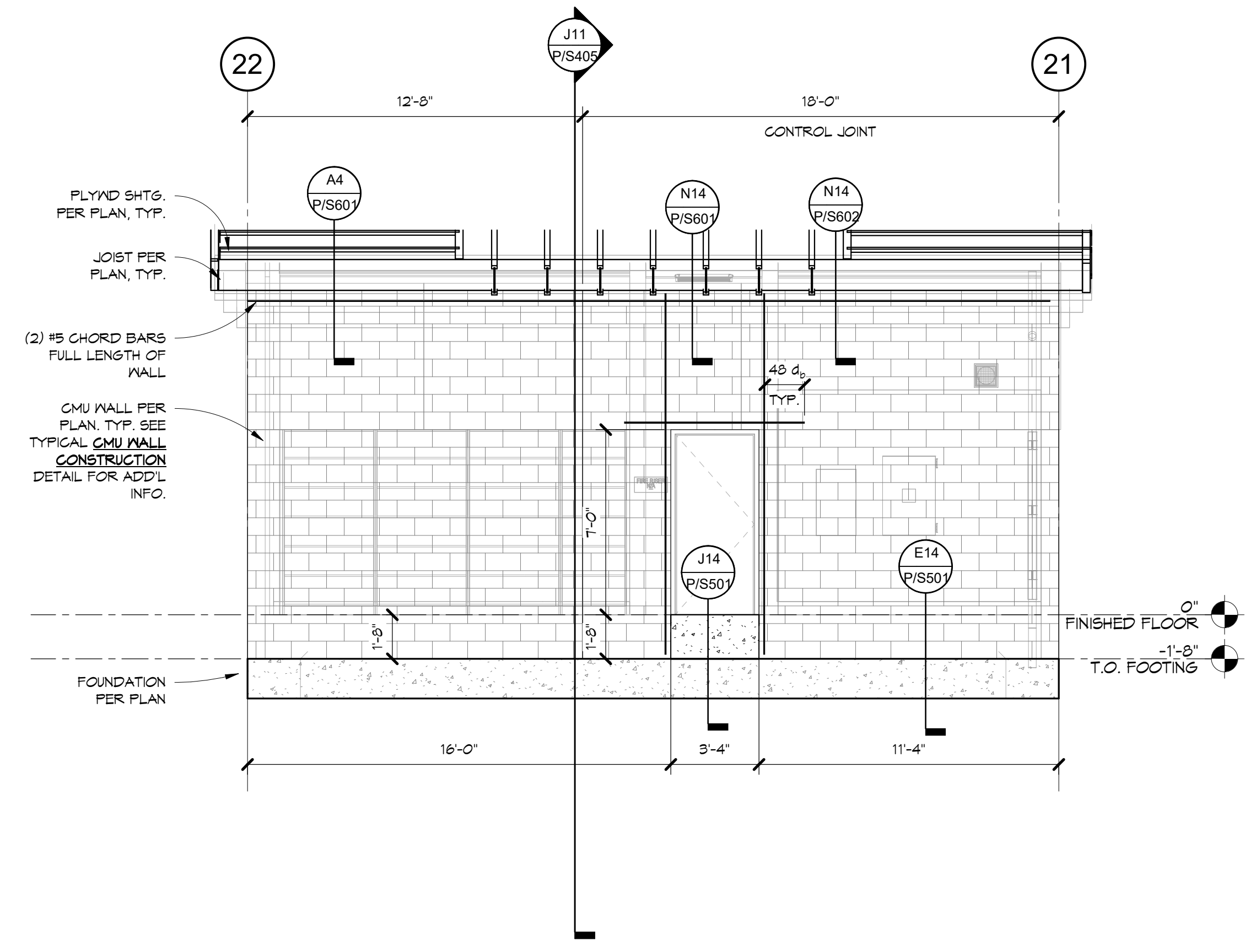
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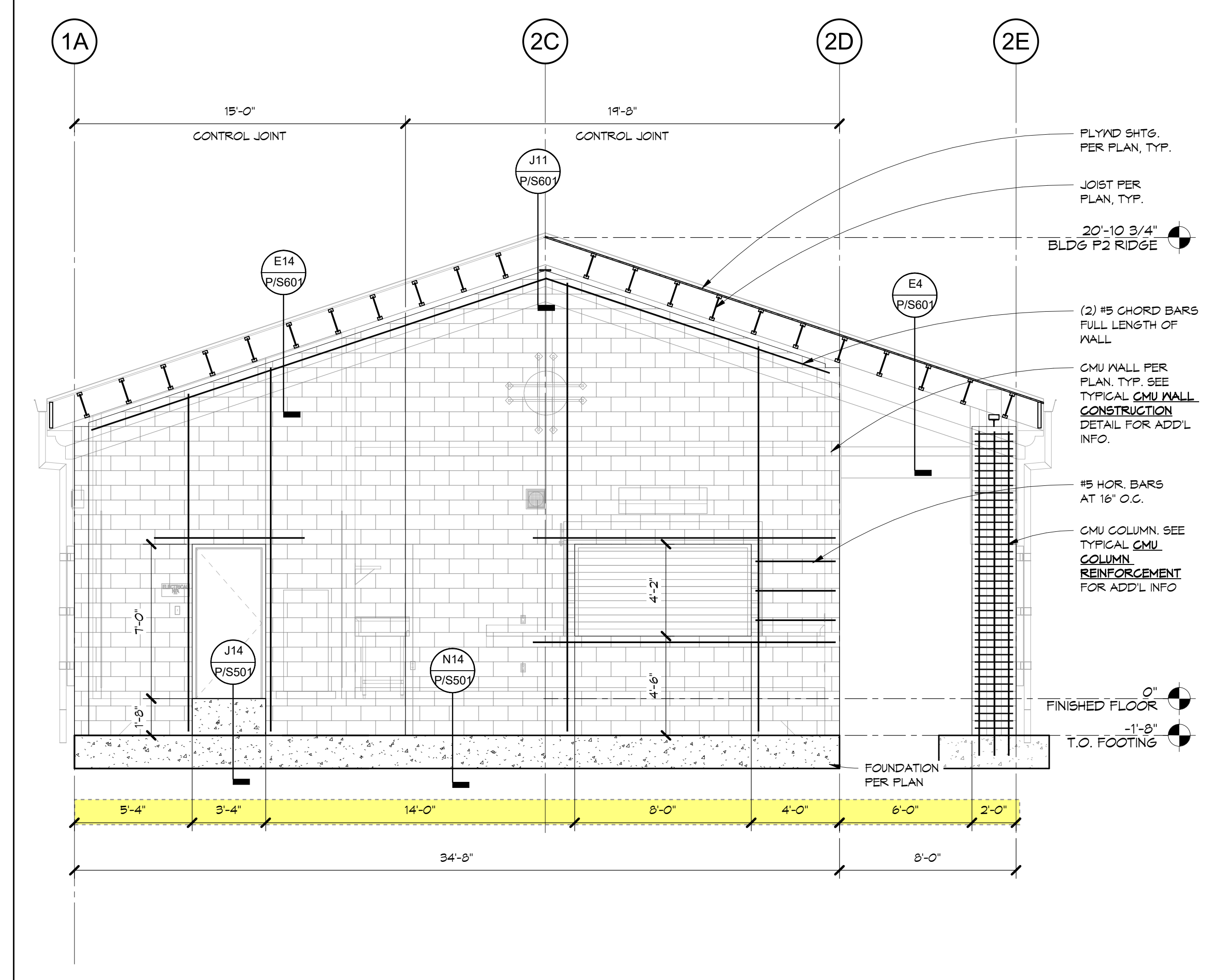
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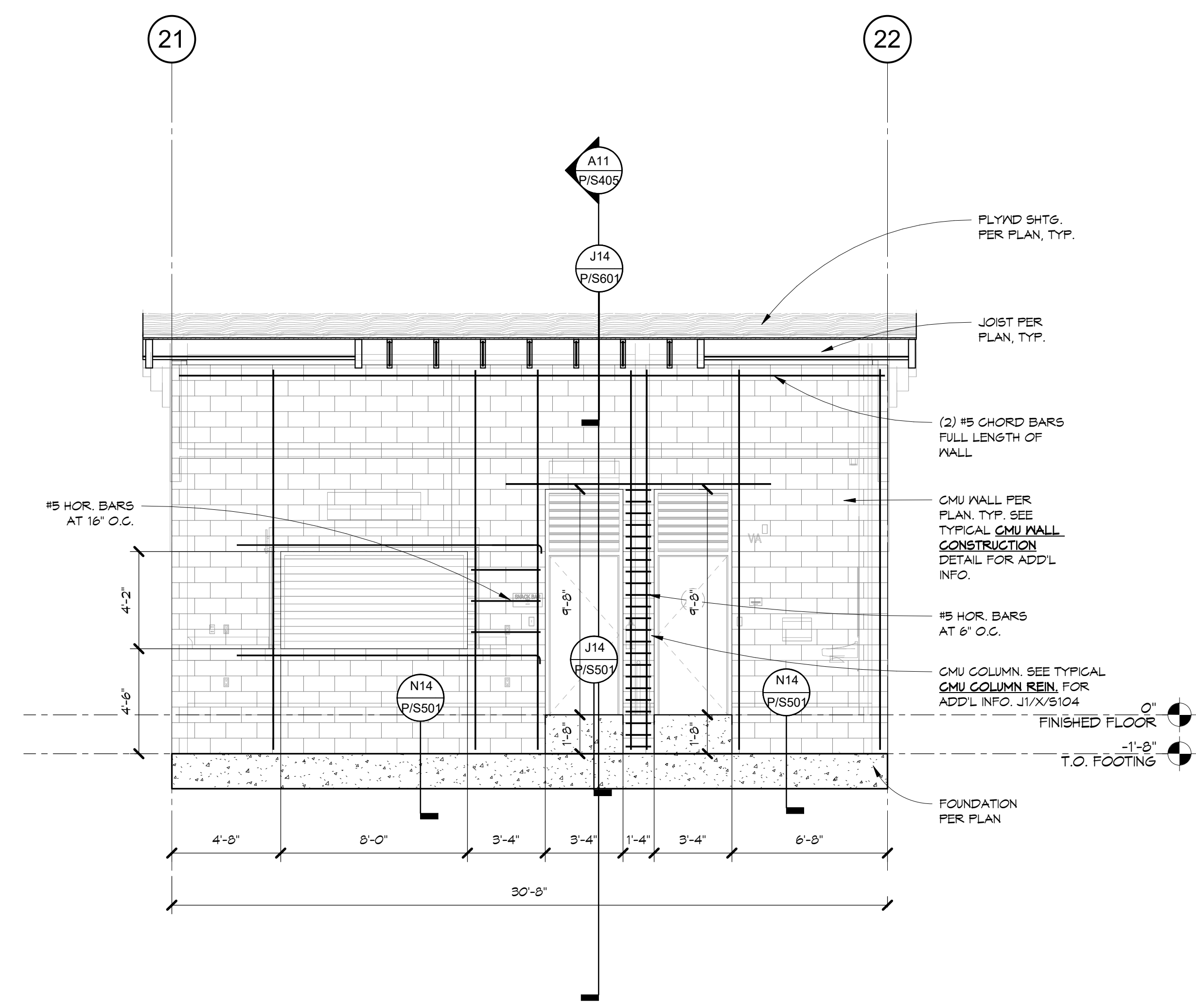
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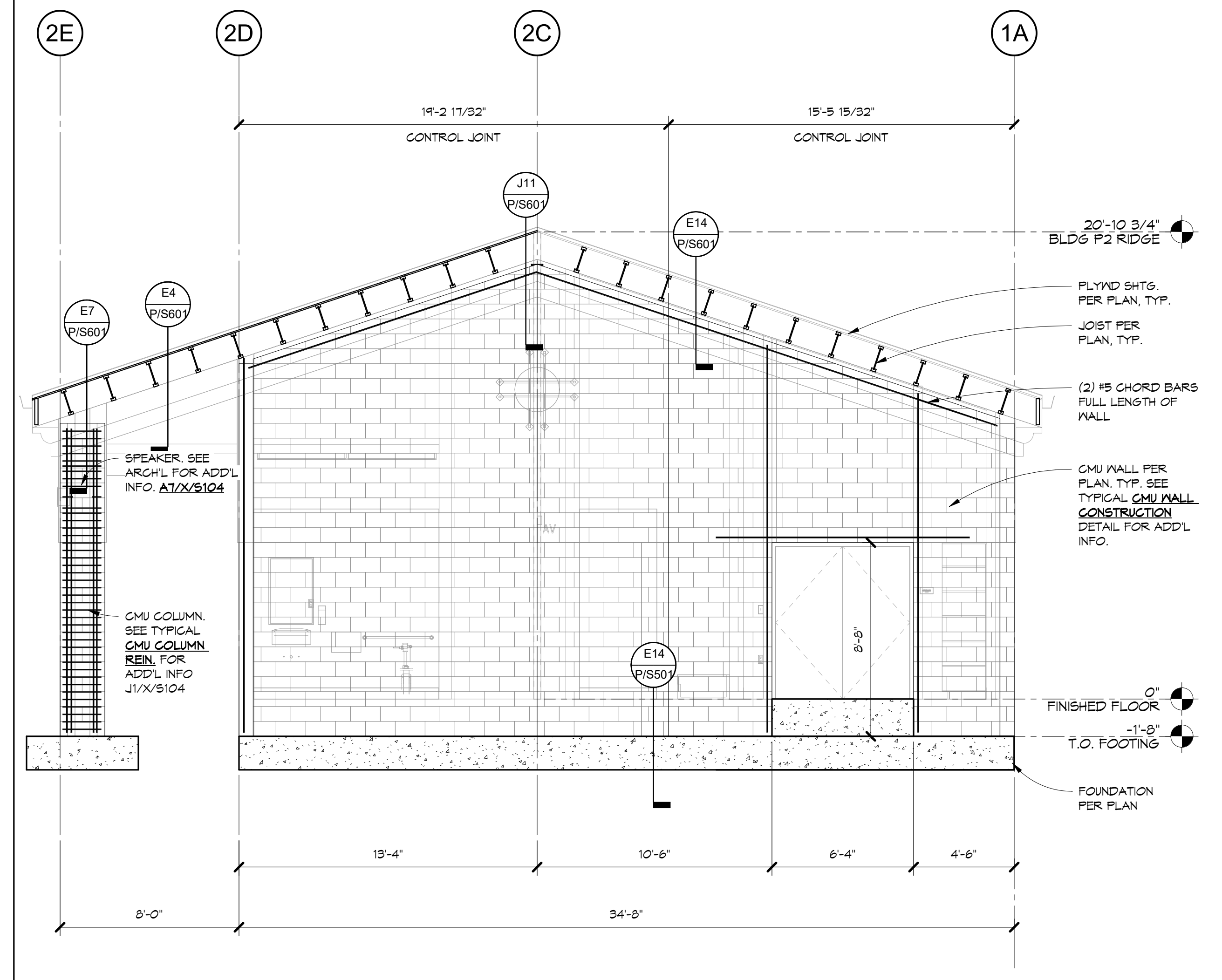
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A7 WALL ELEVATION AT GL '2D' - P2 ALT BID
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A11 WALL ELEVATION AT GL '22' - P2 ALT BID
 P/S201.1 P/S401.1 1/4" = 1'-0"



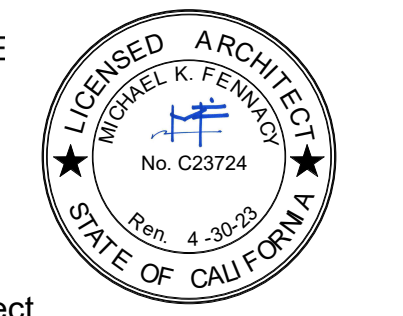
Consultant

Mission Oak HS Aquatic Complex
 Tulare Joint Union High School District
 Tulare, CA 93274

Project

Building P
 ALTERNATE BID - WALL ELEVATIONS

Drawing



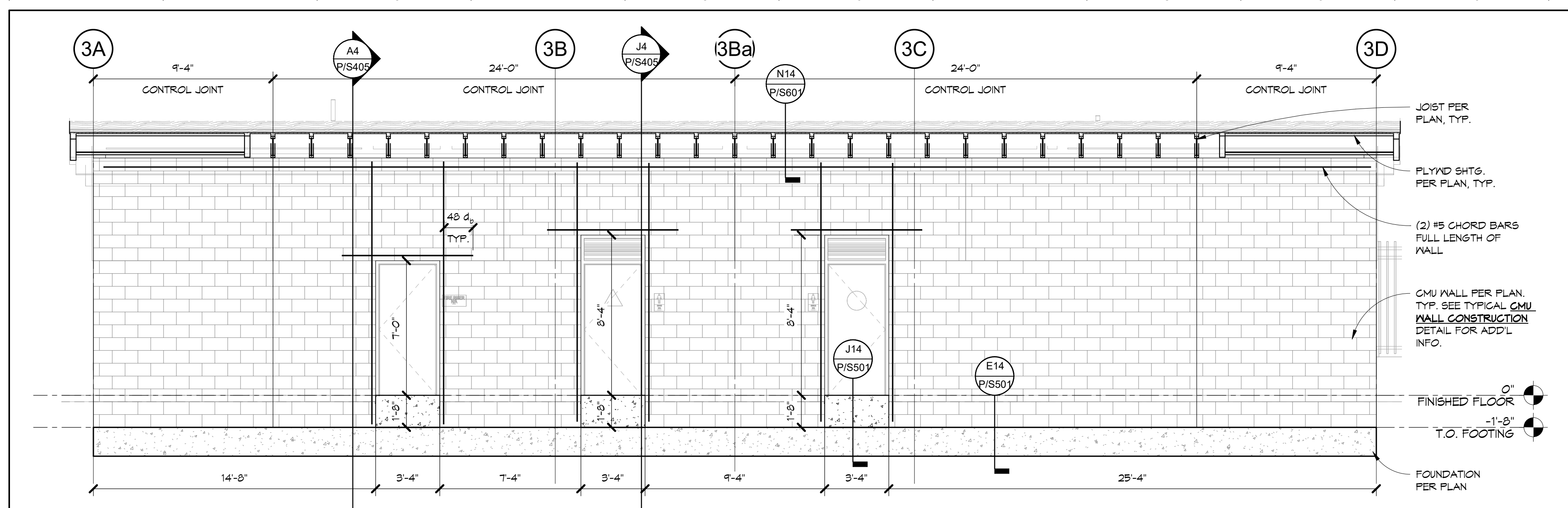
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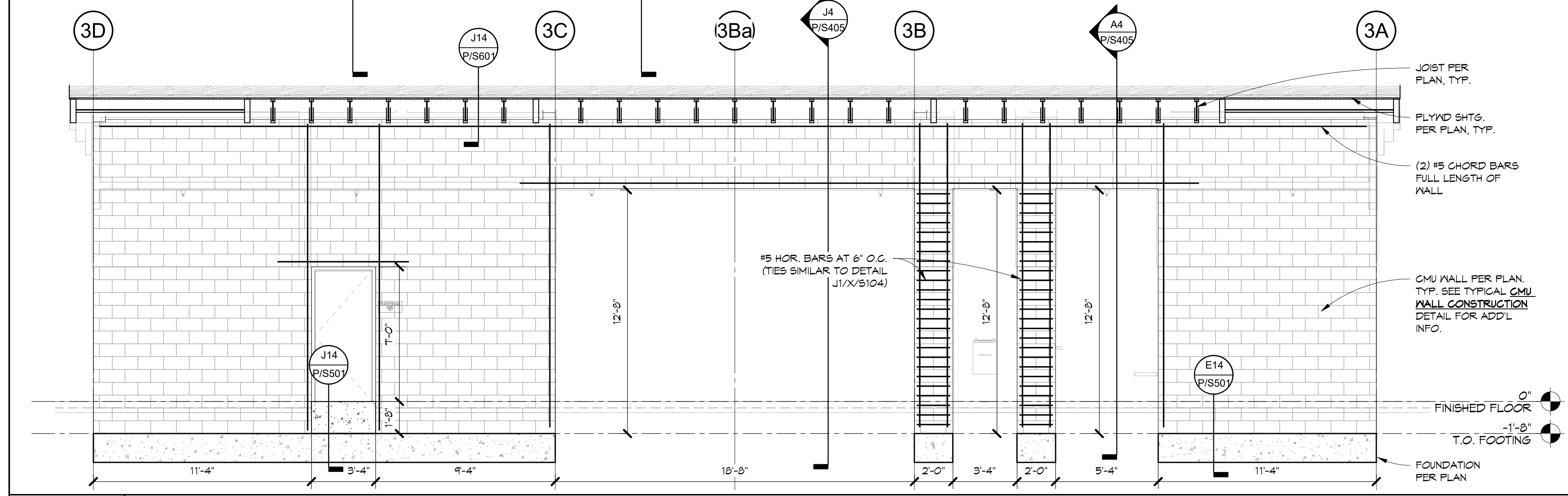
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Date: 11/16/2022	Reviewed By: ESB

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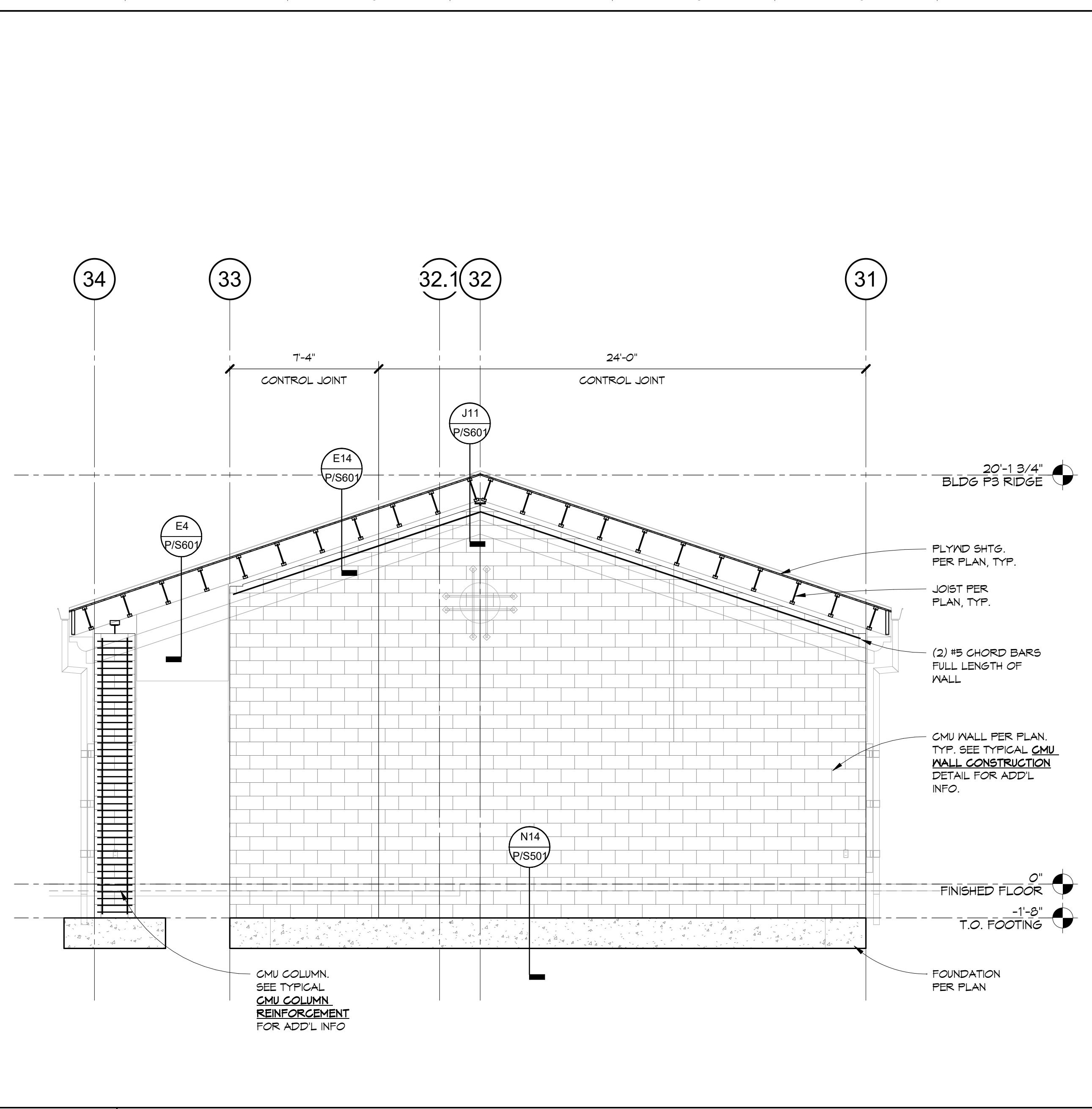
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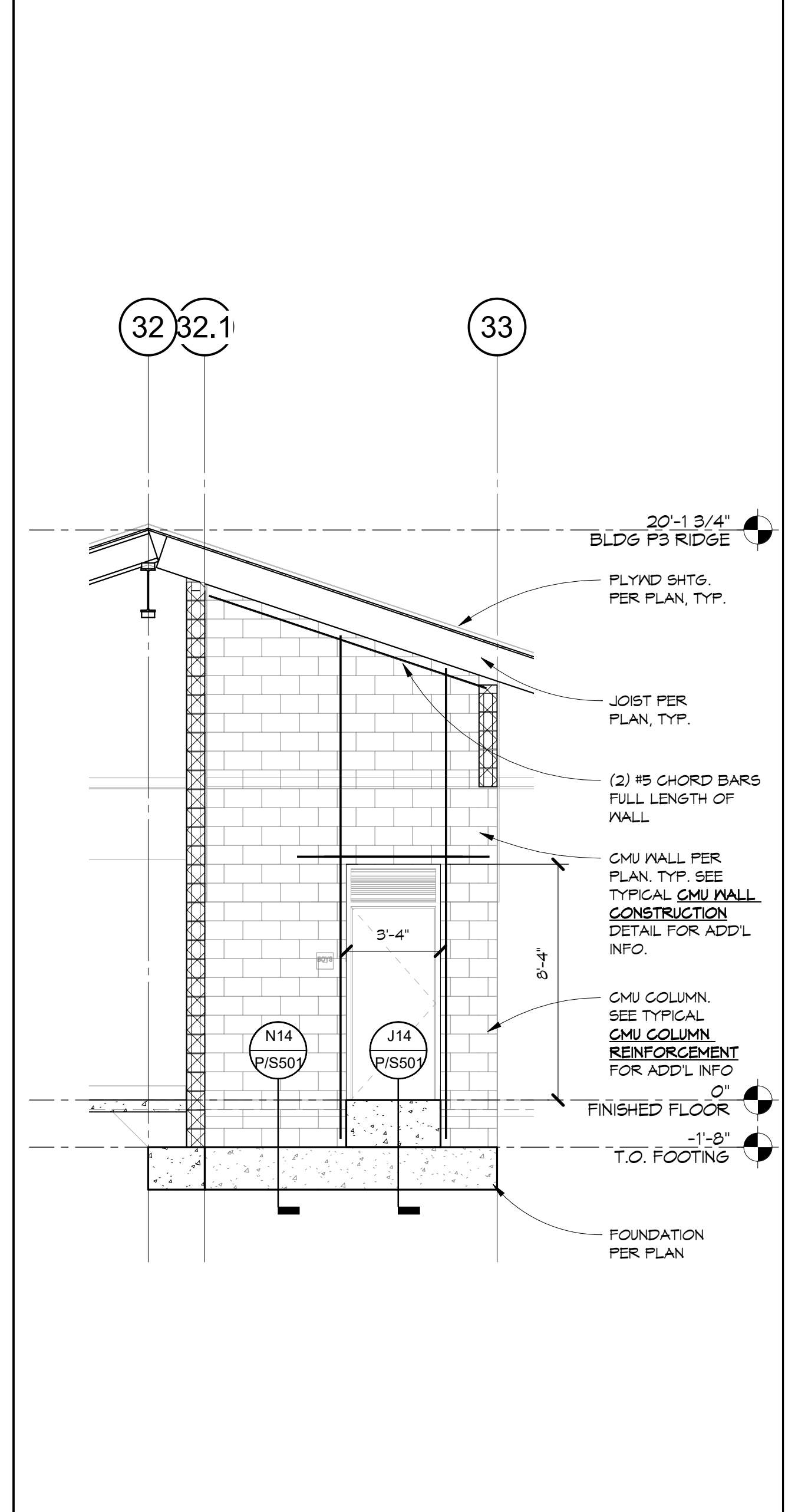
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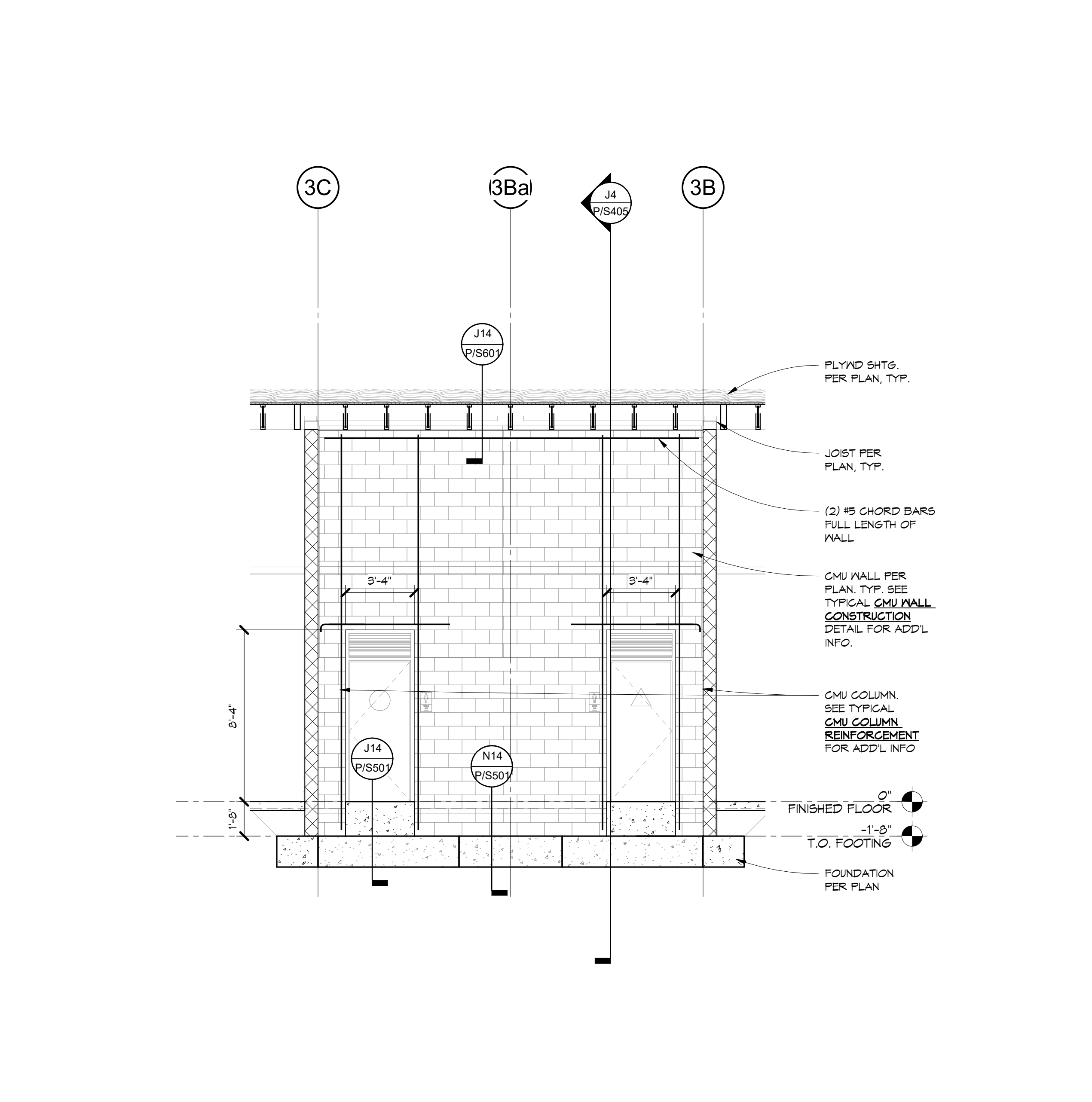
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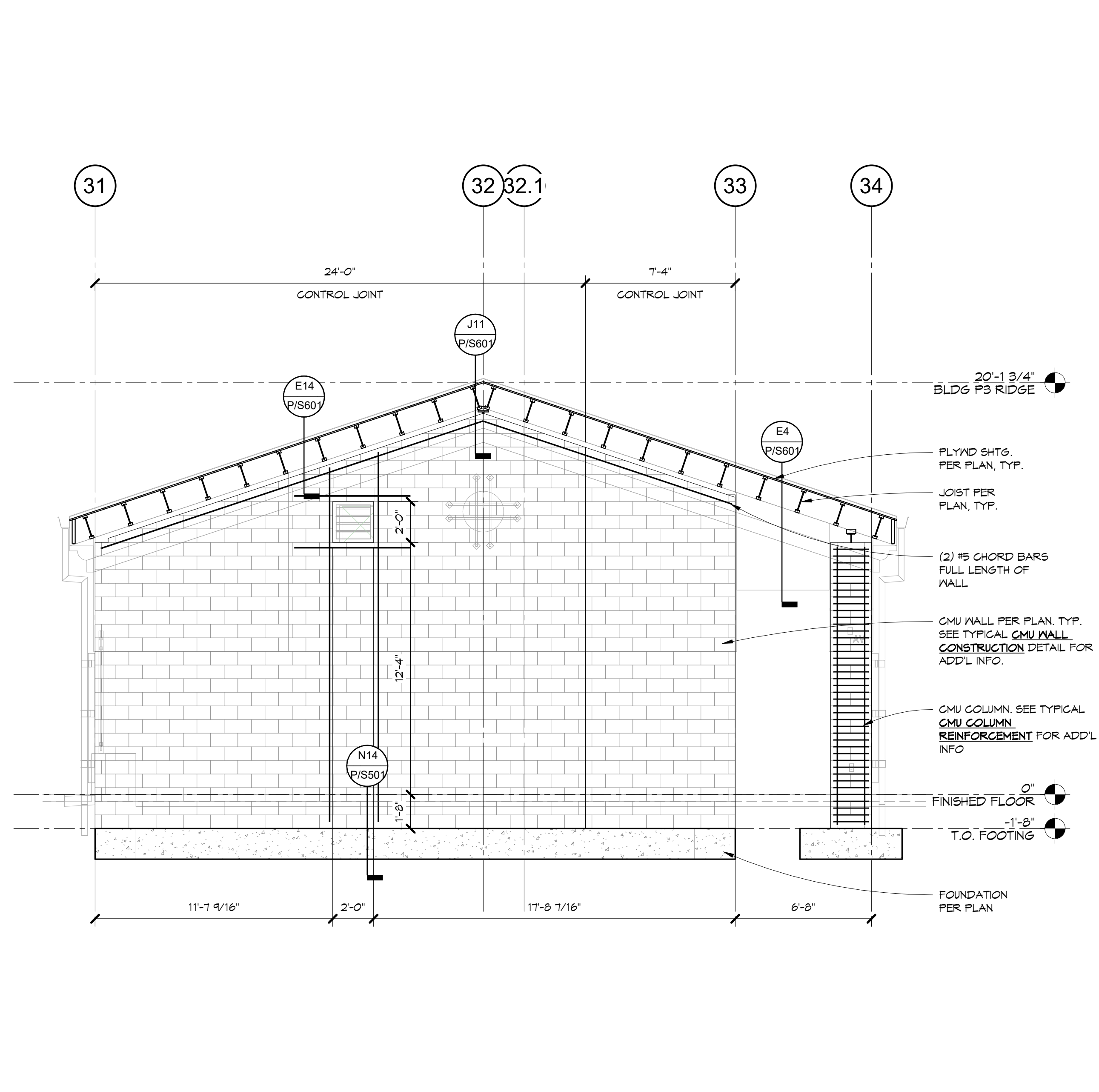
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A1 WALL ELEVATION AT GL '3B' - P3

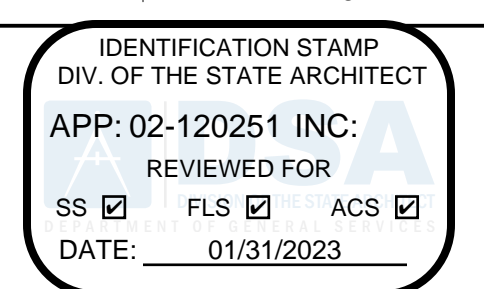


A4 WALL ELEVATION AT GL '32' - P3



A11 WALL ELEVATION AT GL '3D' - P3

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Mission Oak HS Aquatic Complex
 Tulare Joint Union High School District
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Building P
 WALL ELEVATIONS



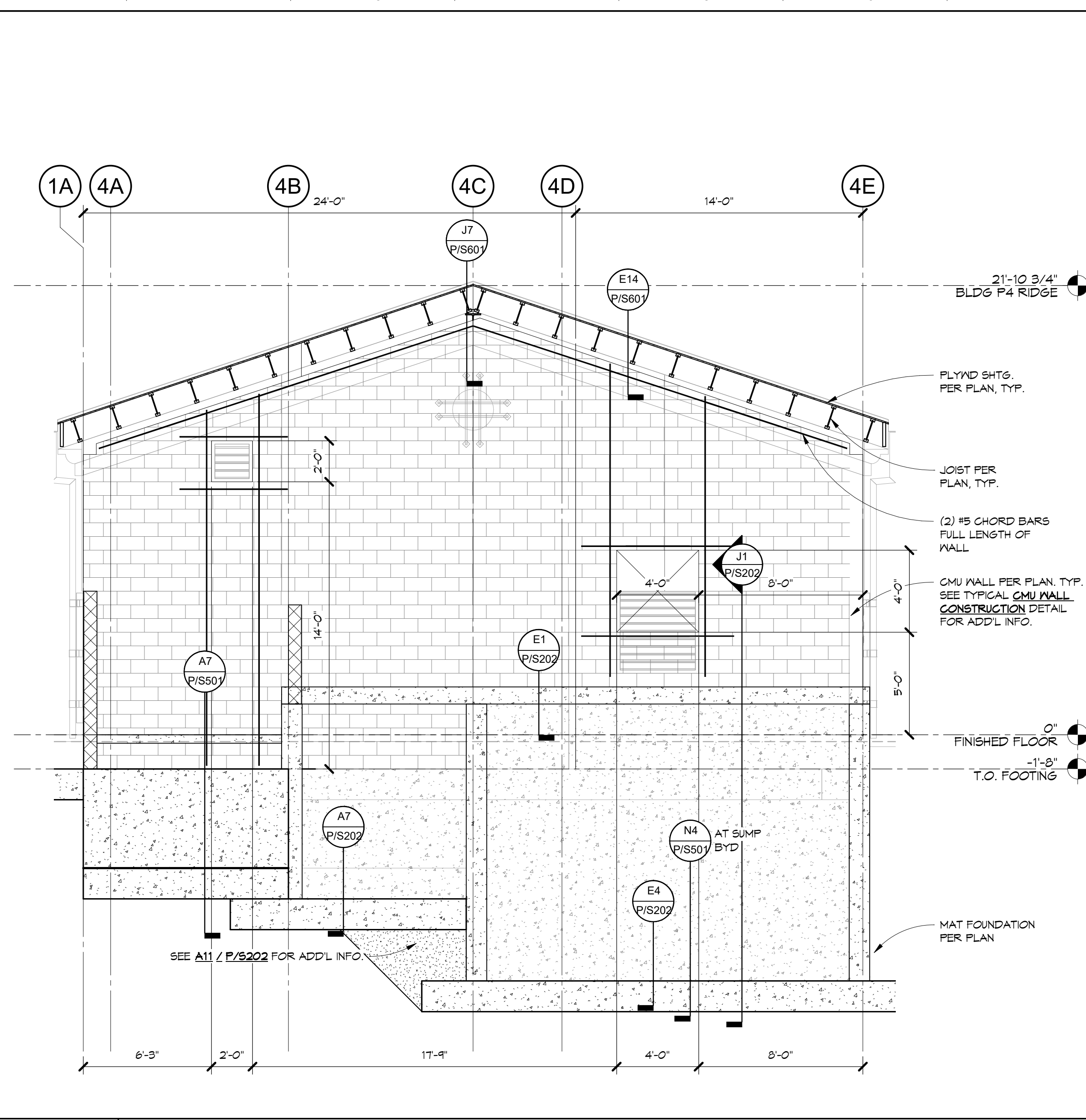
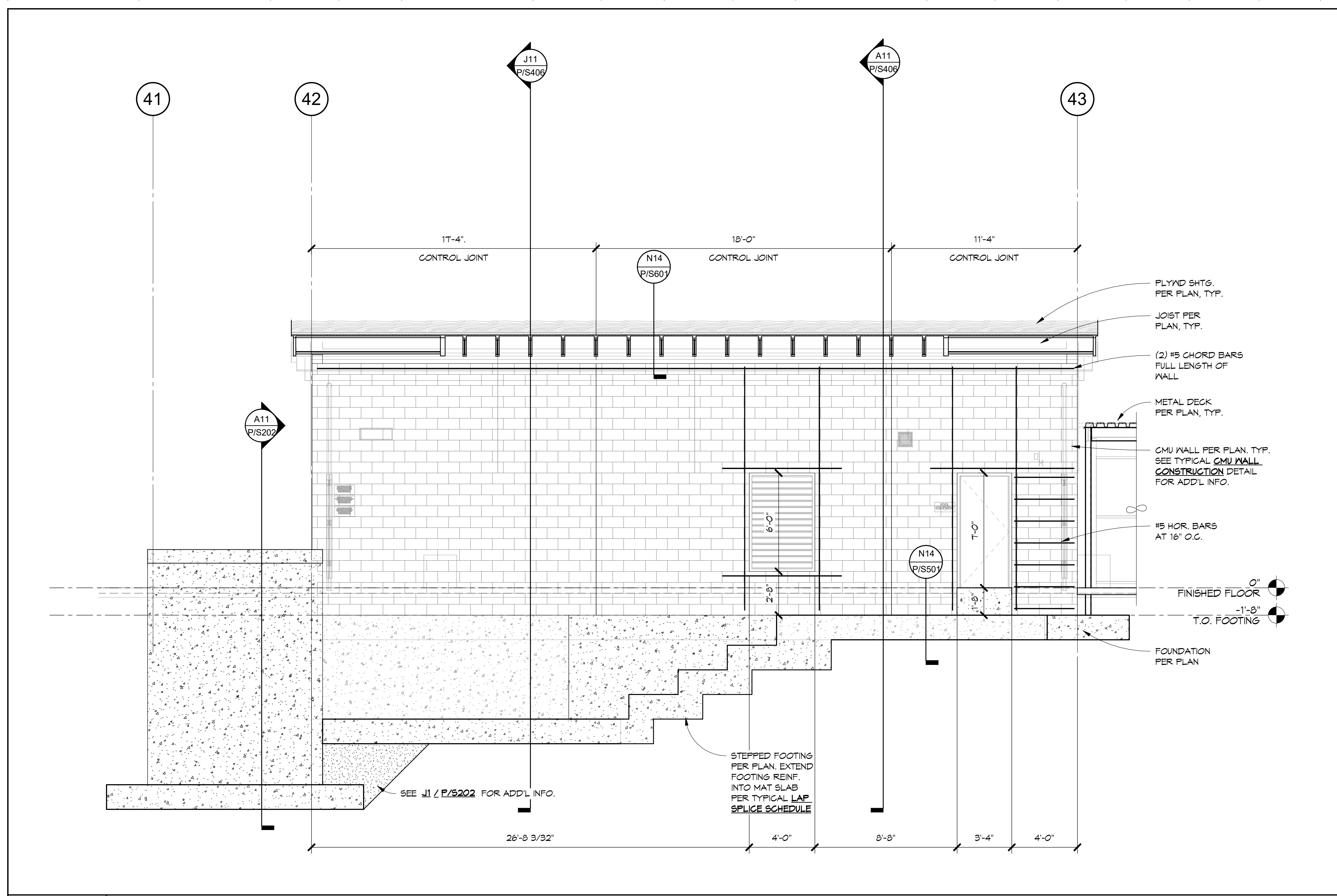
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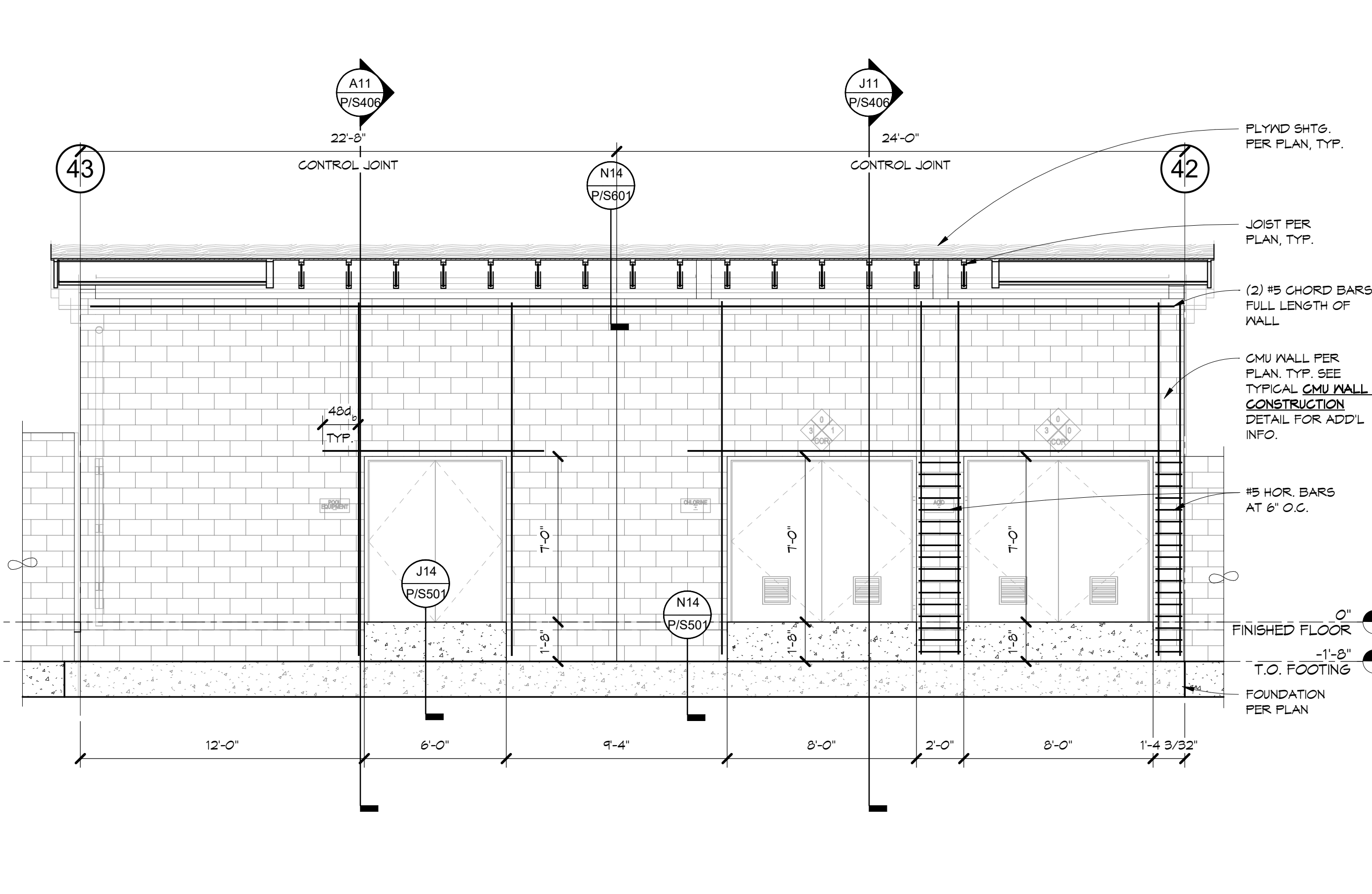
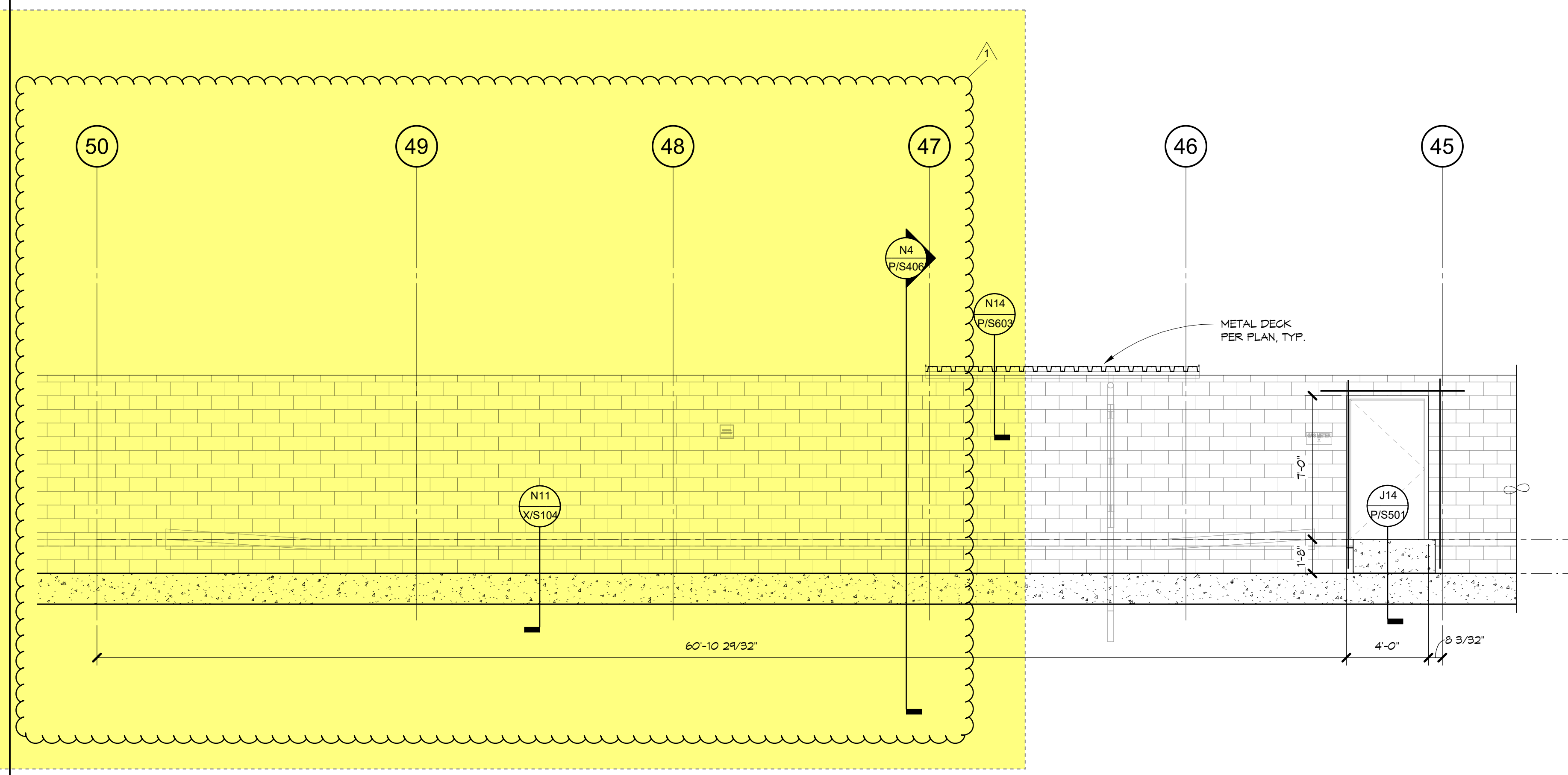
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J4 WALL ELEVATION AT GL '4E' - P4
P/S201 P/S403 1/4" = 1'-0"

J11 WALL ELEVATION AT GL '42' - P4
P/S201 P/S403 1/4" = 1'-0"



A1 WALL ELEVATION AT GL '1A' - P4
P/S201 P/S403 1/4" = 1'-0"

BrooksRansom ASSOCIATES
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EXPIRES 12-31-24
1660 448-844 OFFICE (818) 448-840 FAX 22106

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Tulare, CA 93274

Building P
WALL ELEVATIONS

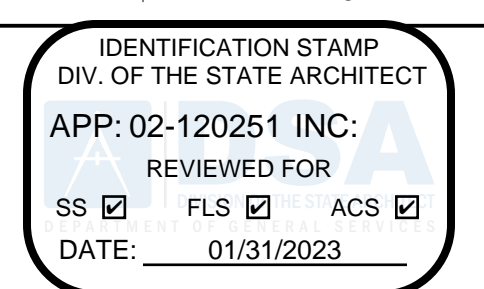
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1	REVISION 1	05/31/2023

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Project Number: 2180	Checked By: ESB	
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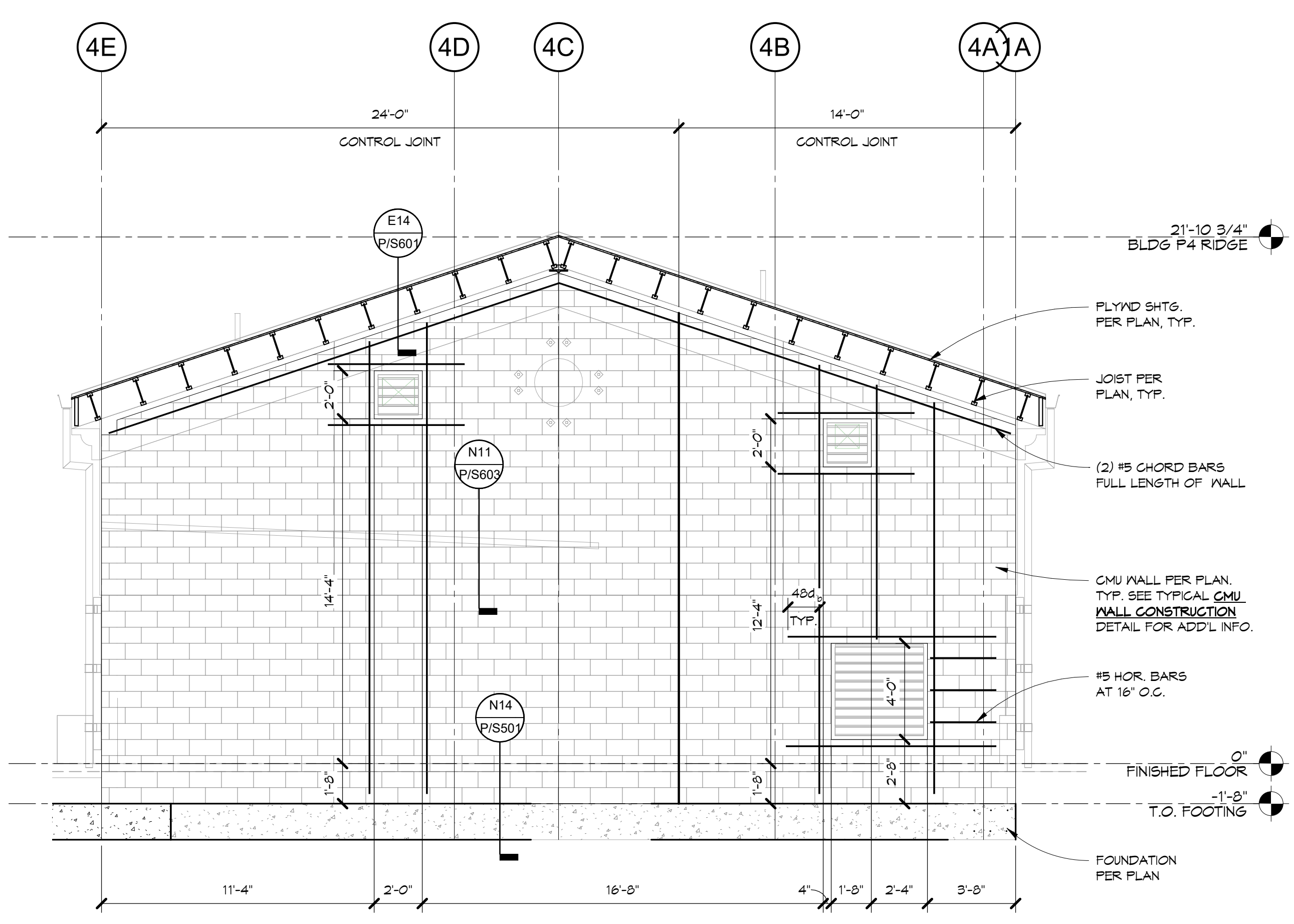
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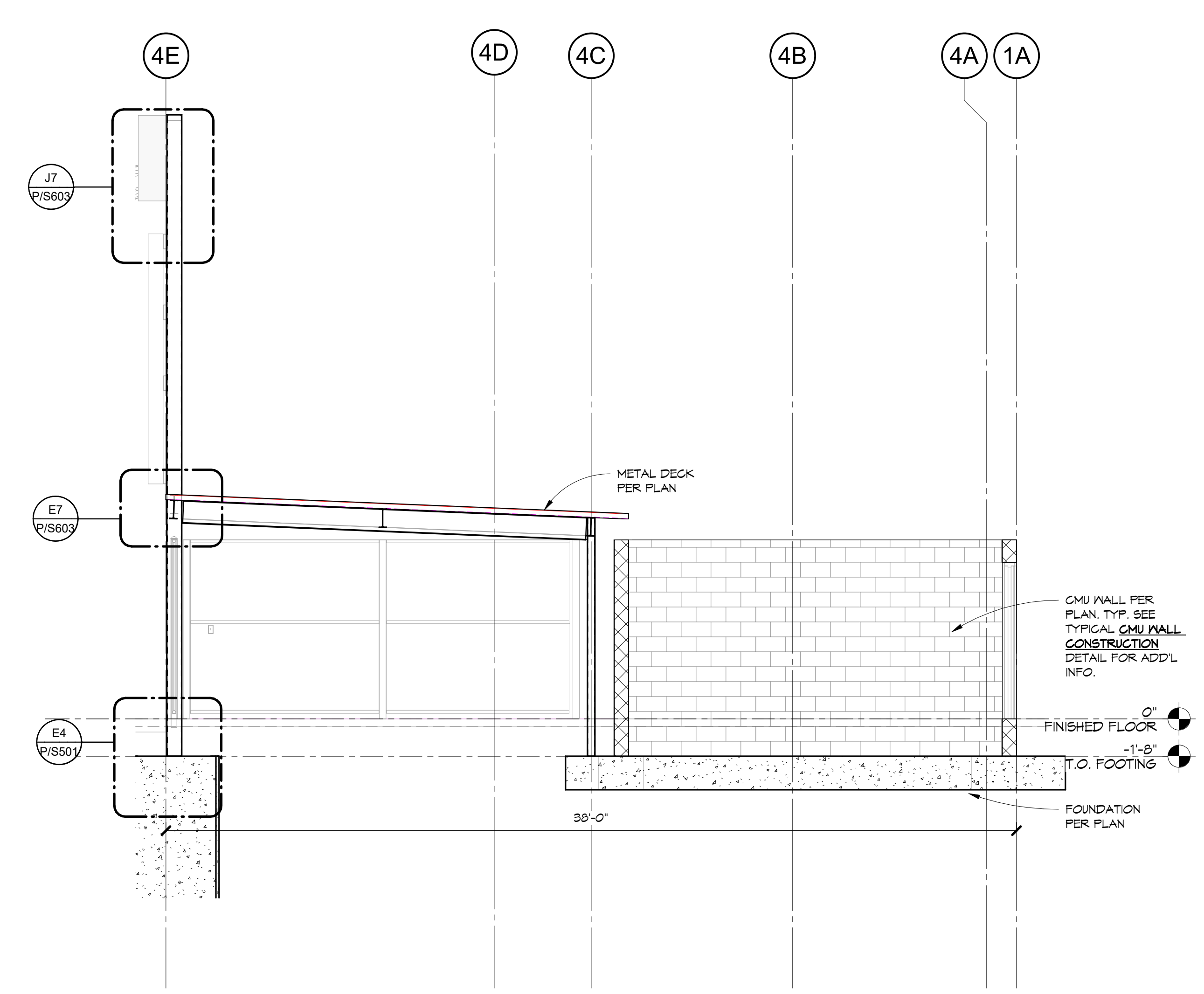


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J11 WALL ELEVATION AT GL '43' - P4
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A11 WALL ELEVATION AT GL '45' - P4
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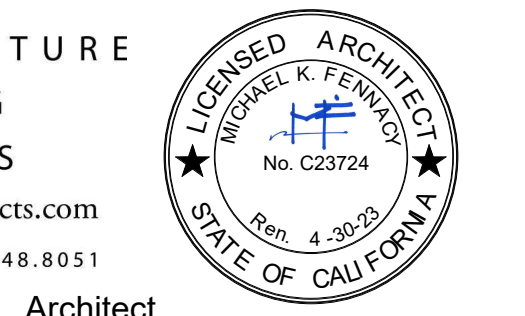


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WALL ELEVATIONS

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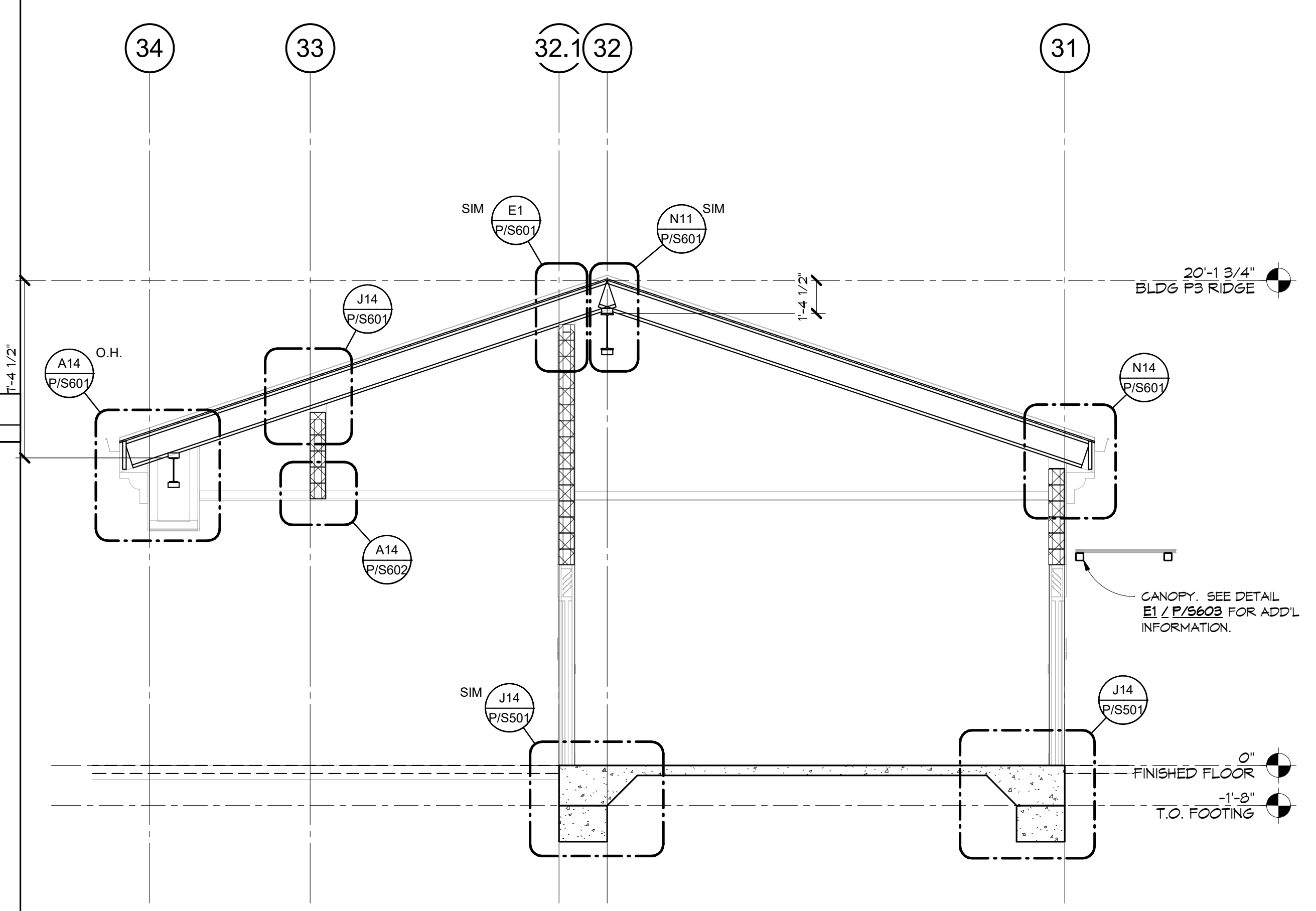
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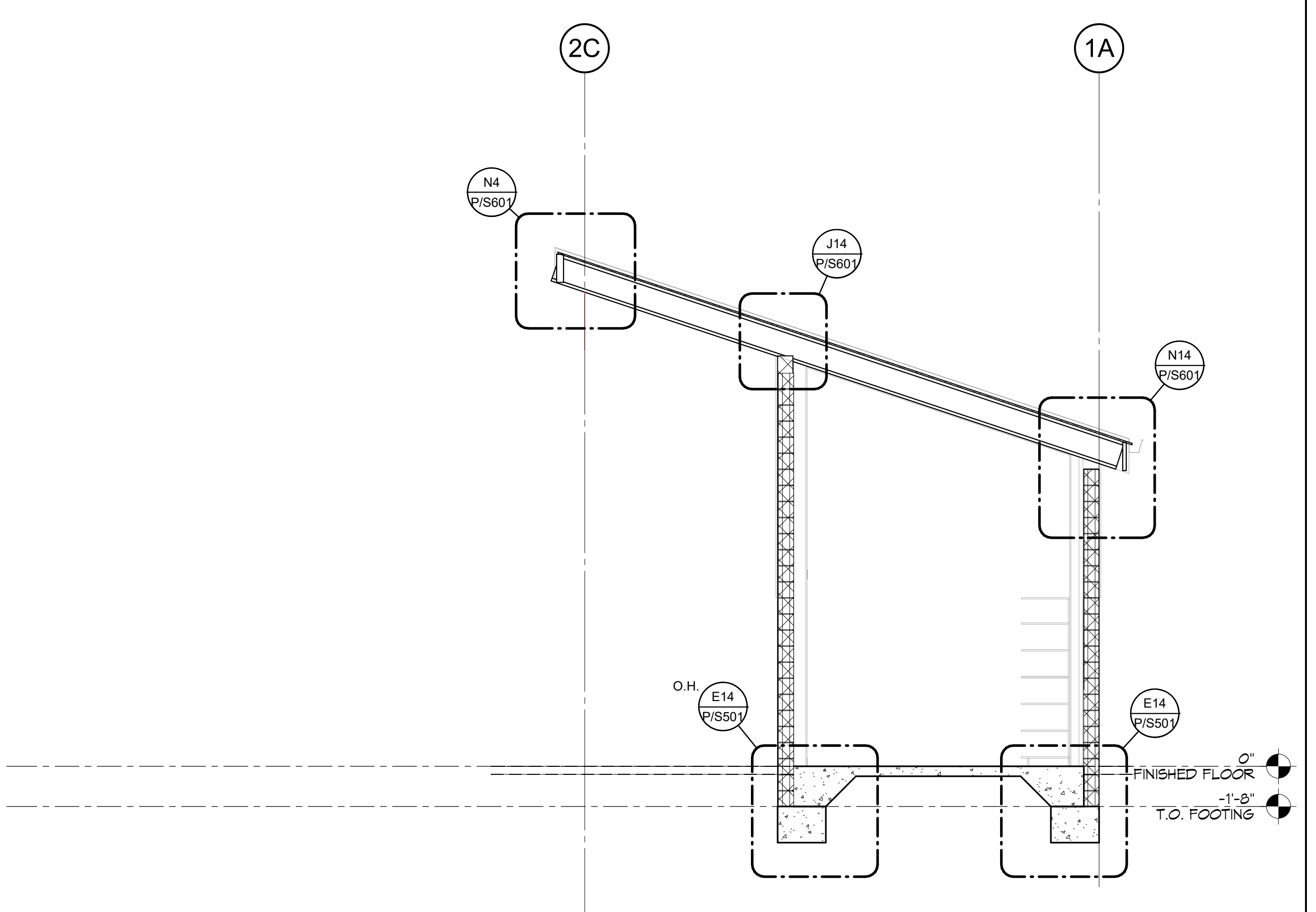
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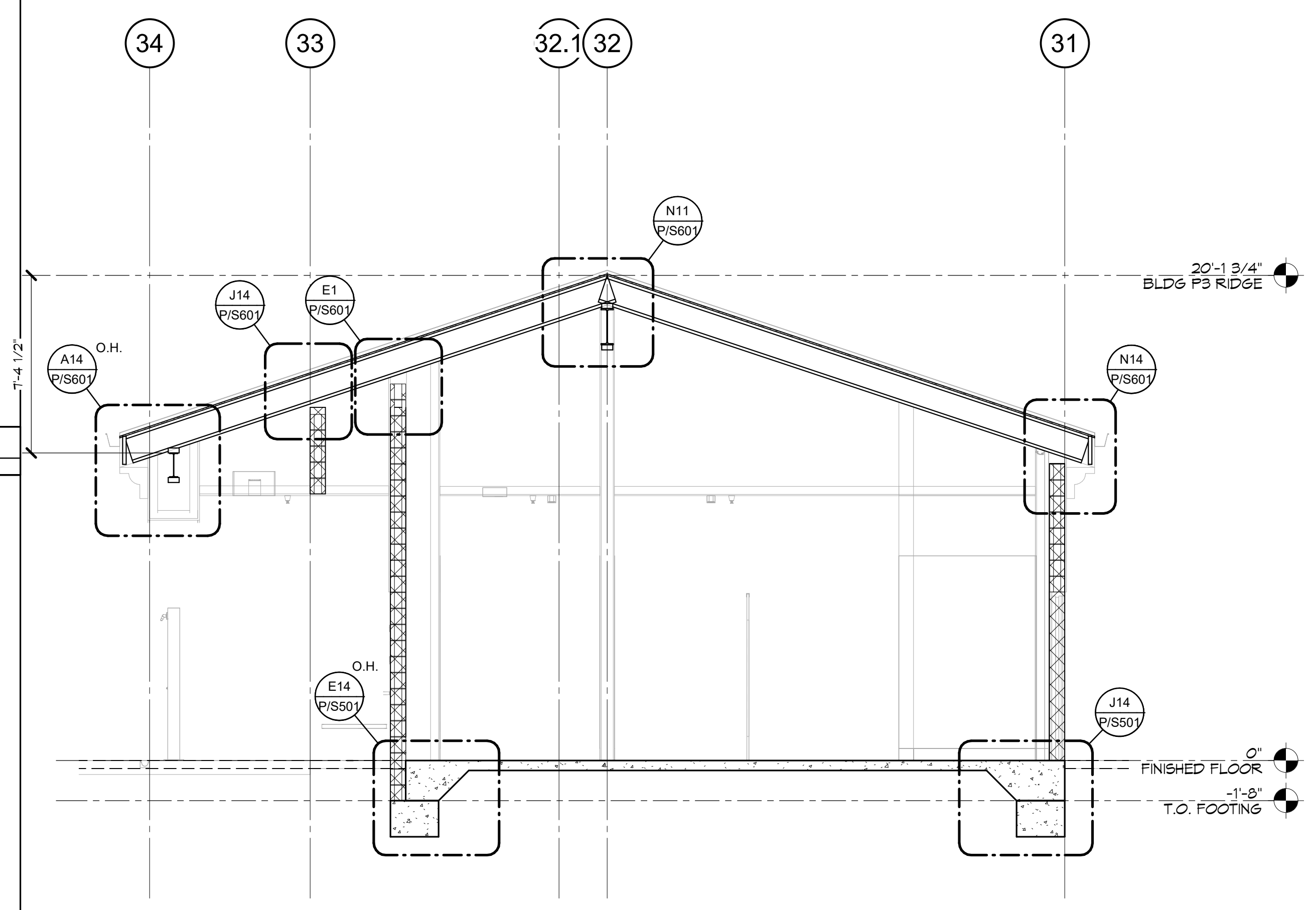
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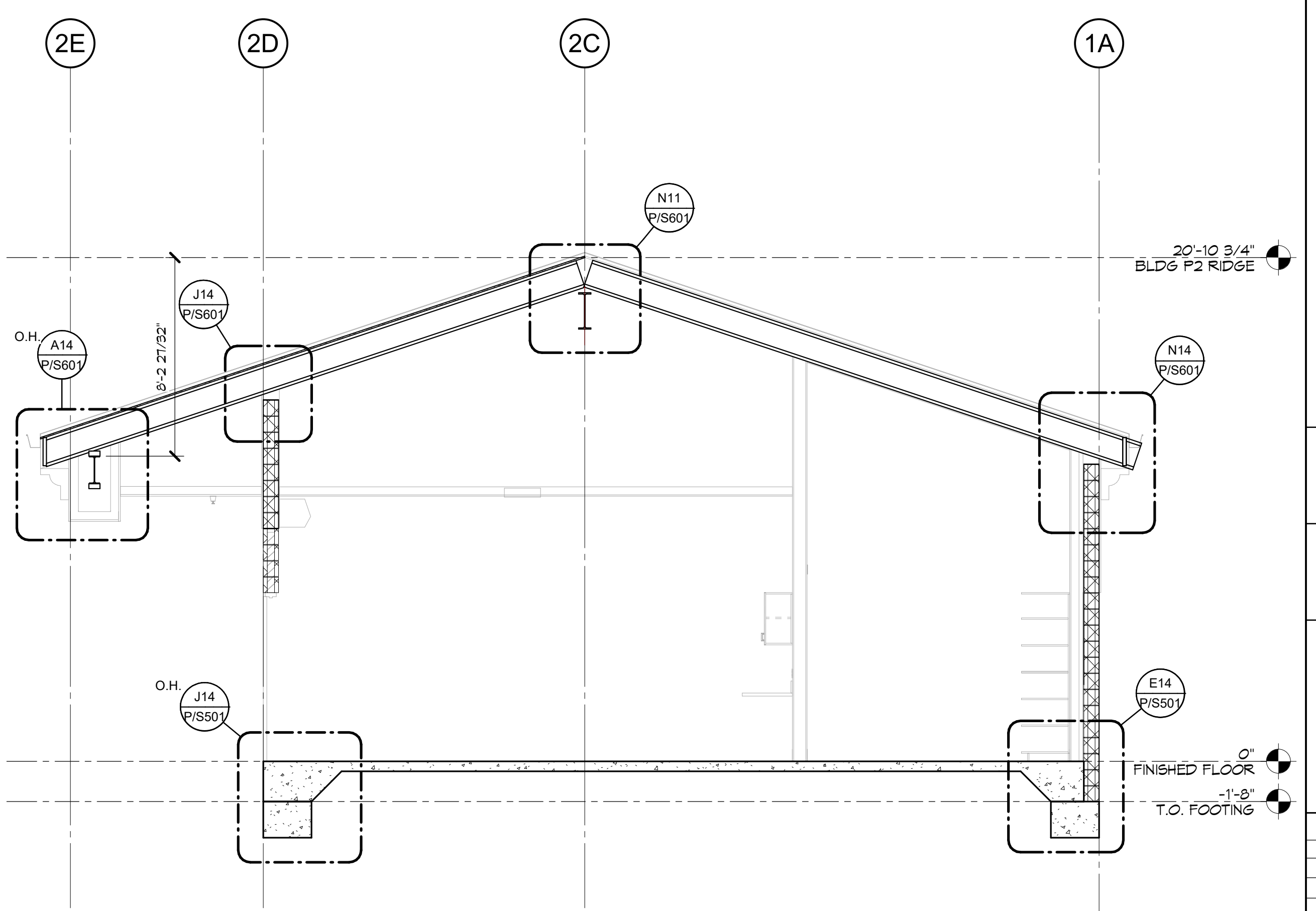
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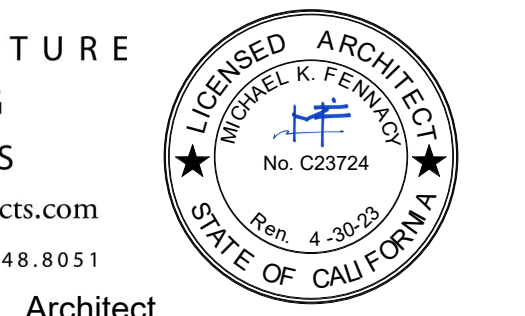
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Tulare Joint Union High School District
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Project

Building P
BUILDING SECTIONS

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1	REVISION_1	05/31/2023

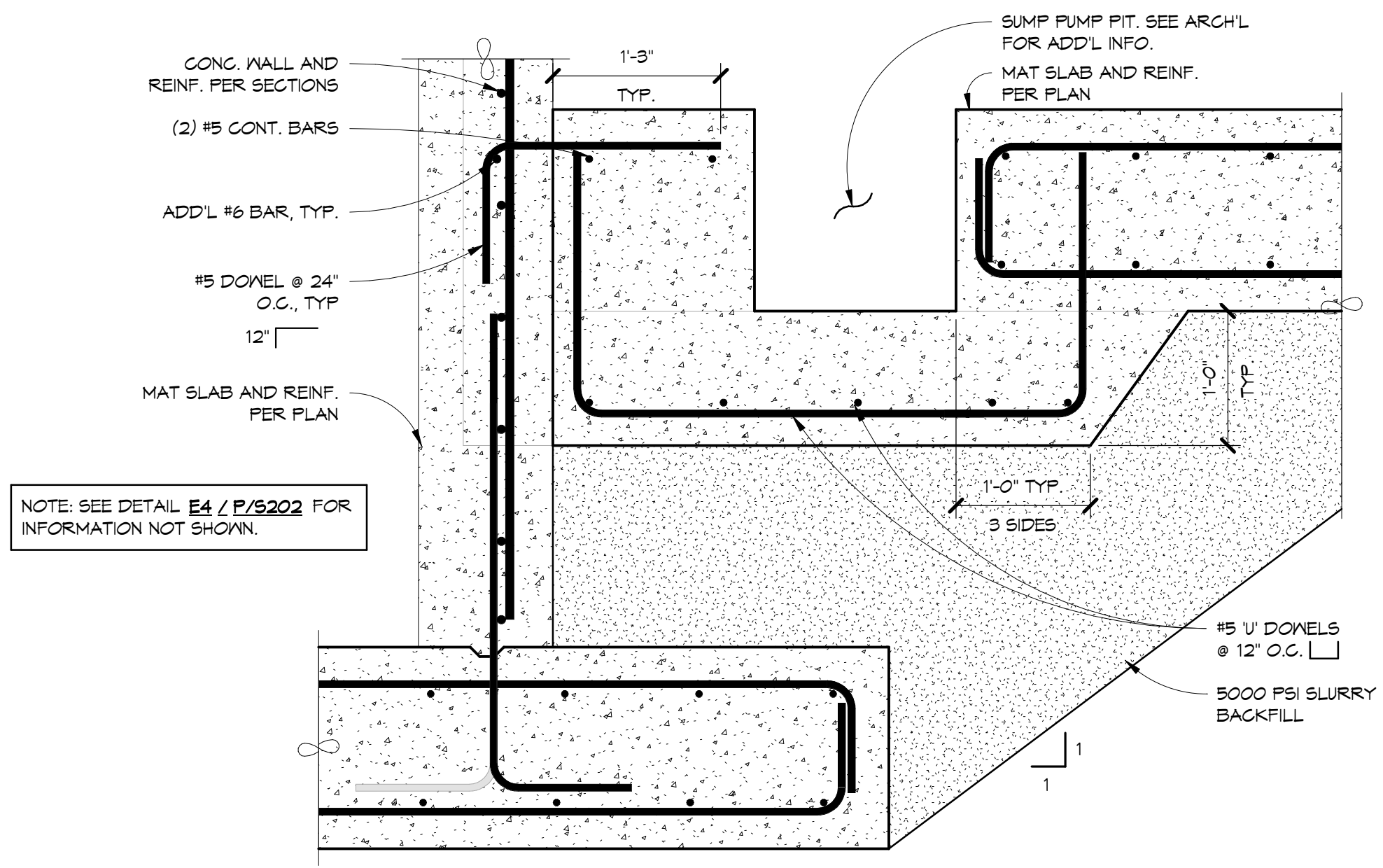
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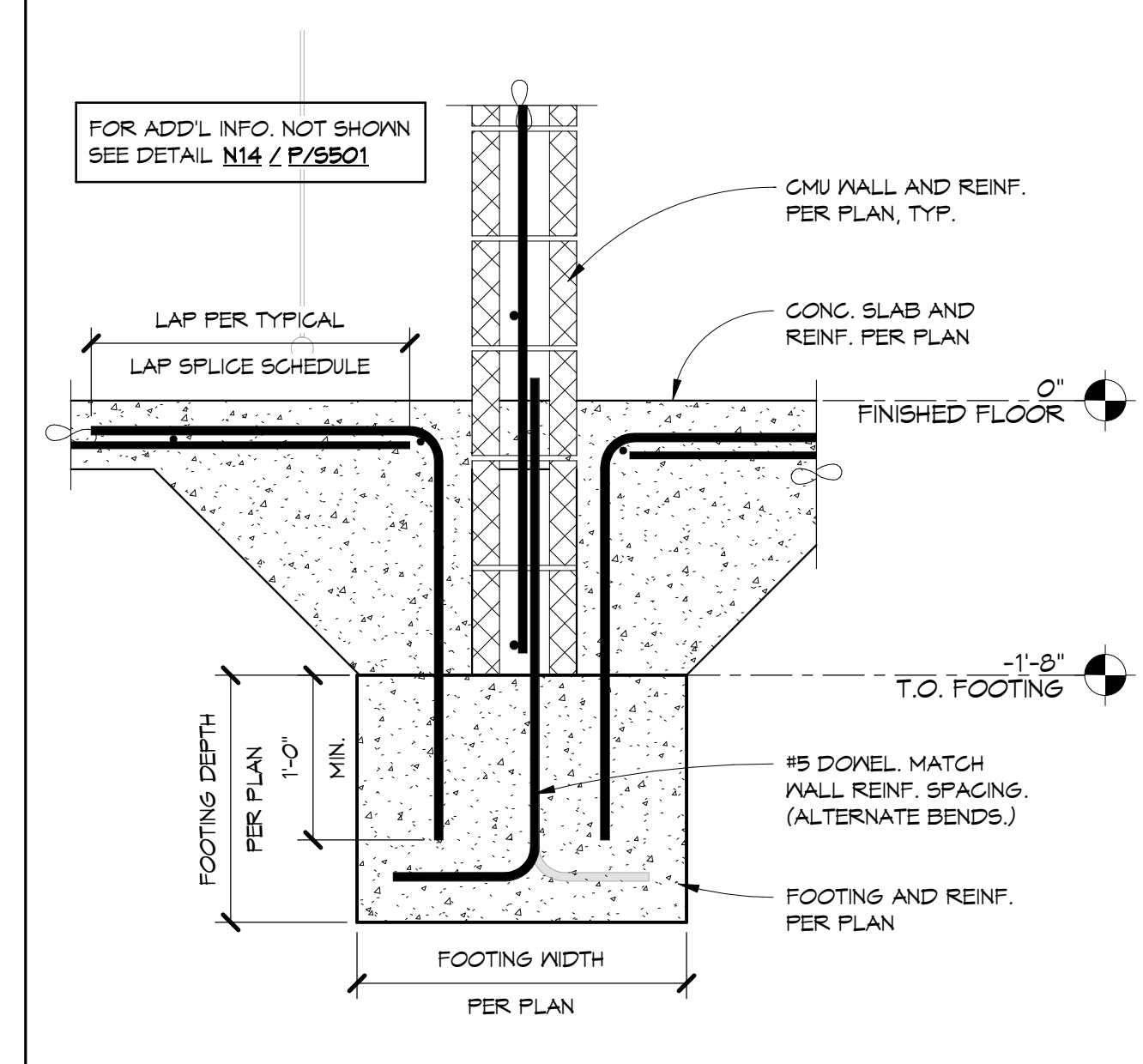
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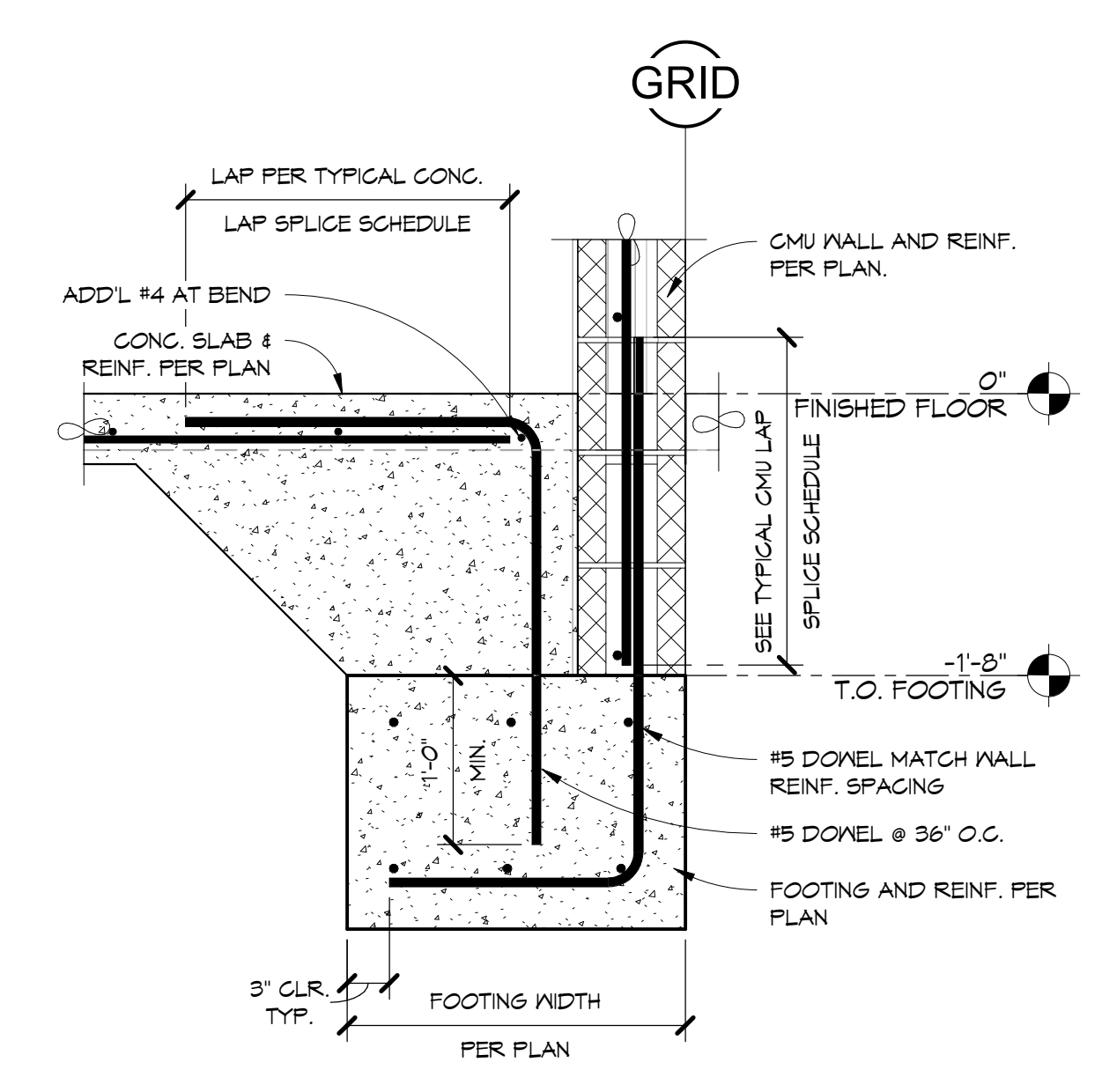
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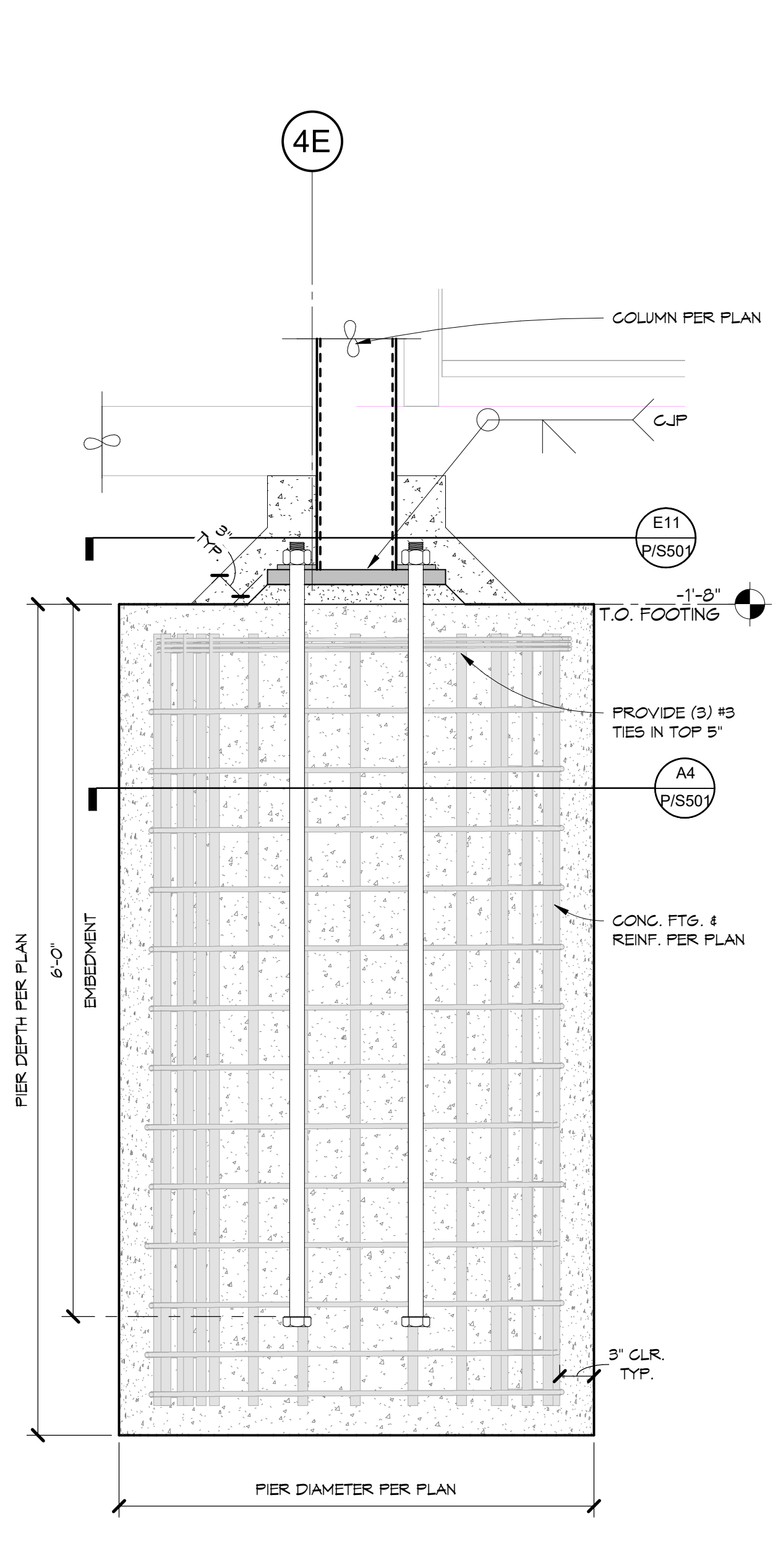
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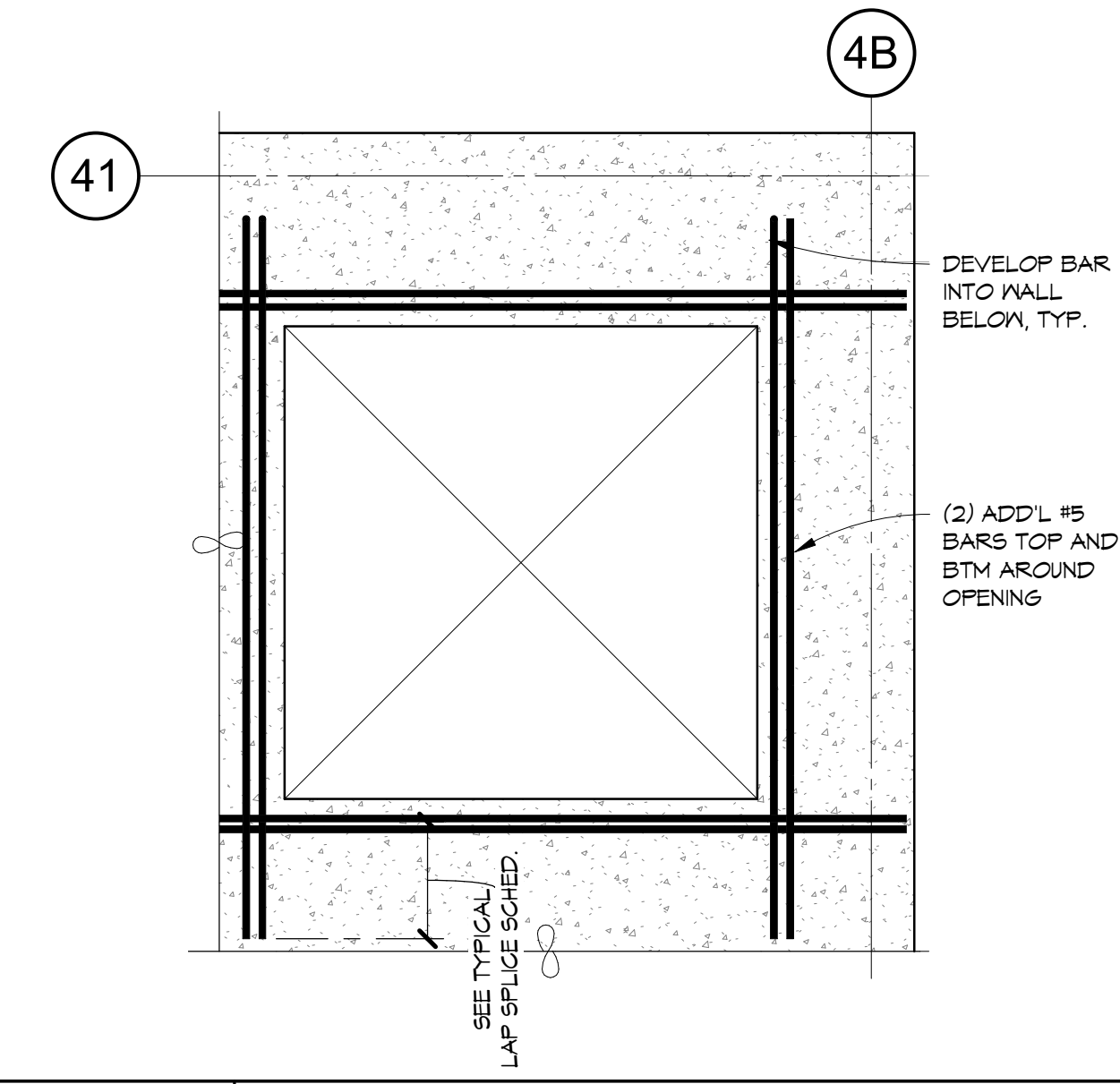
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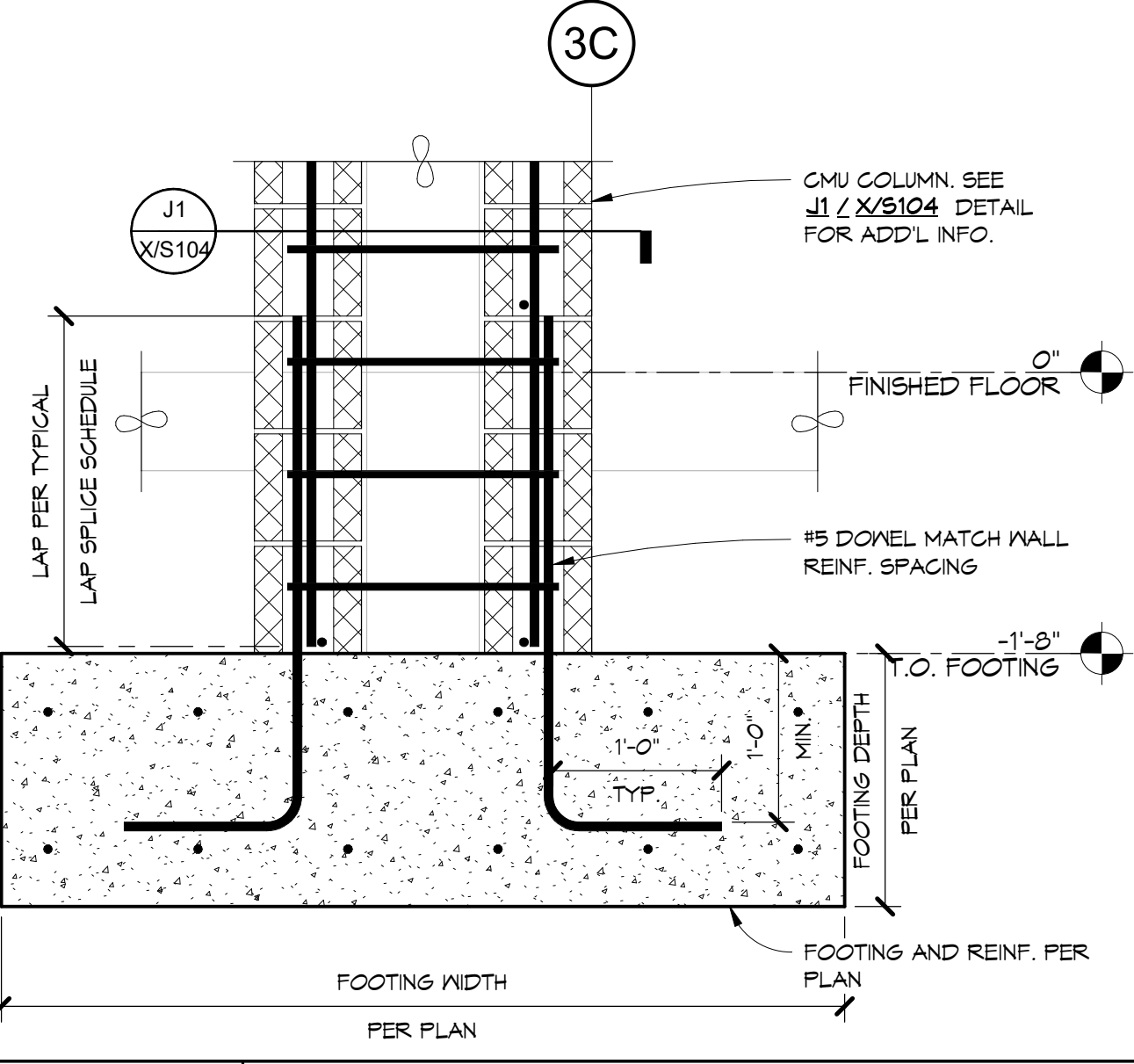
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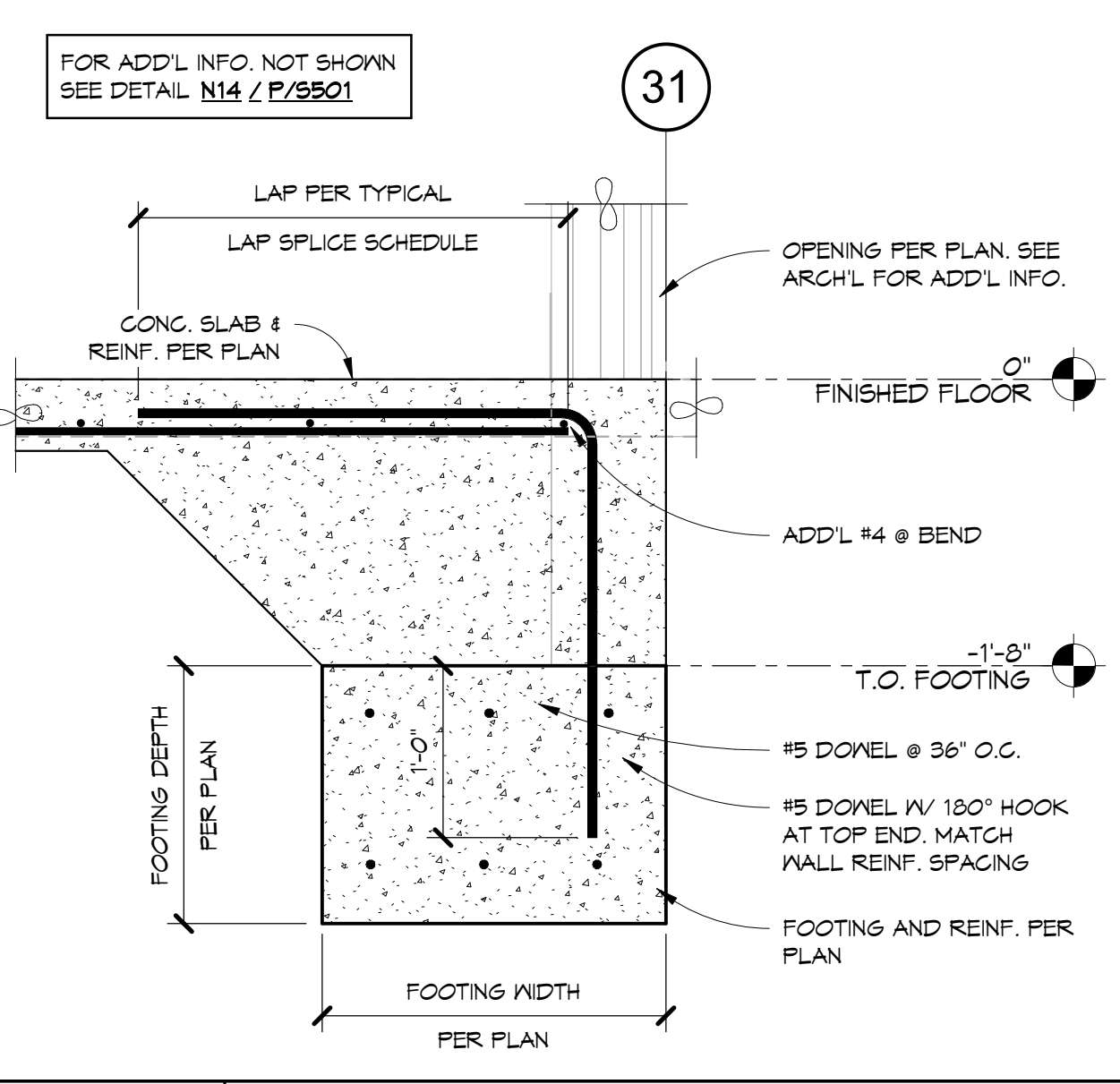
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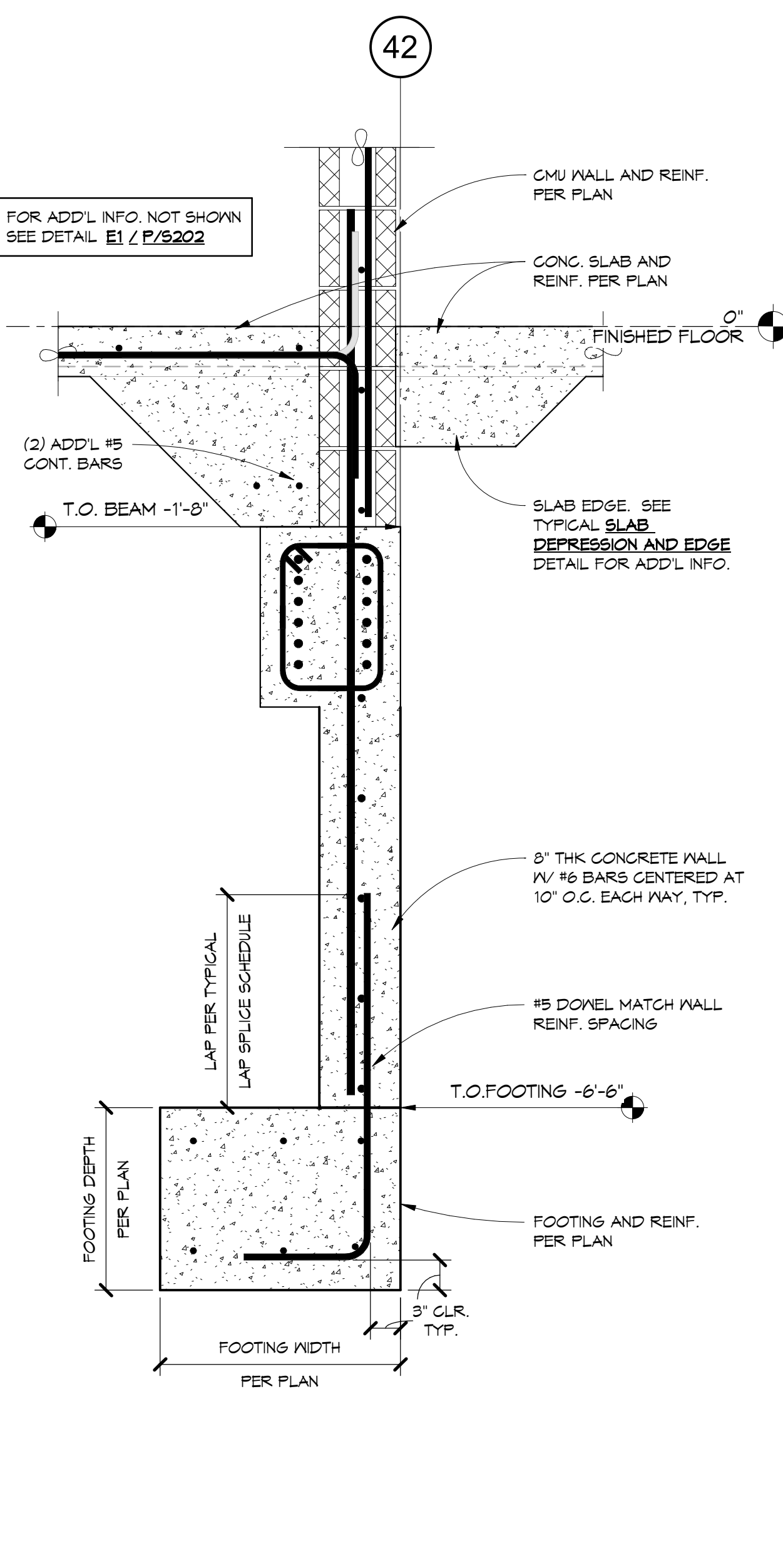
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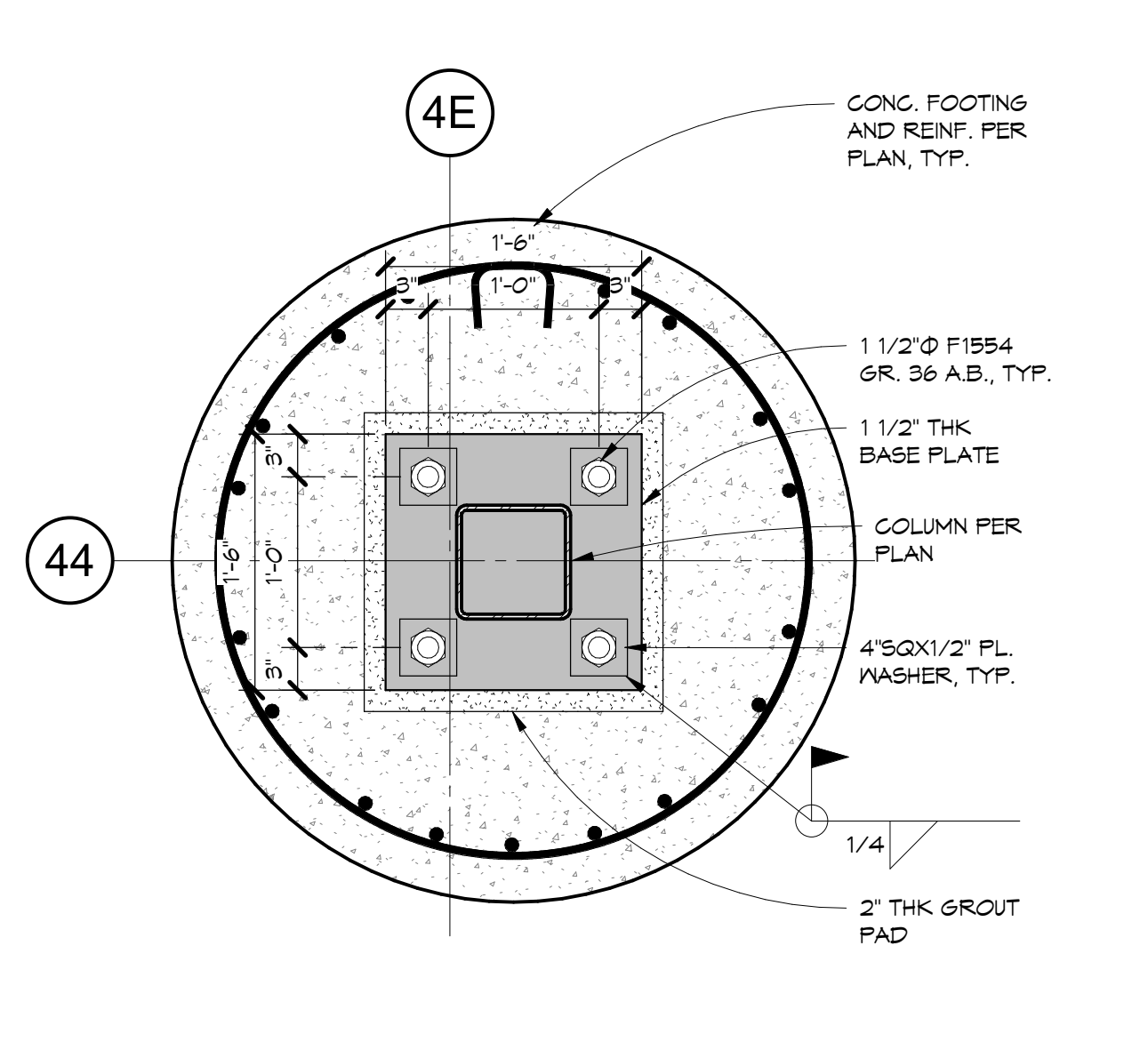
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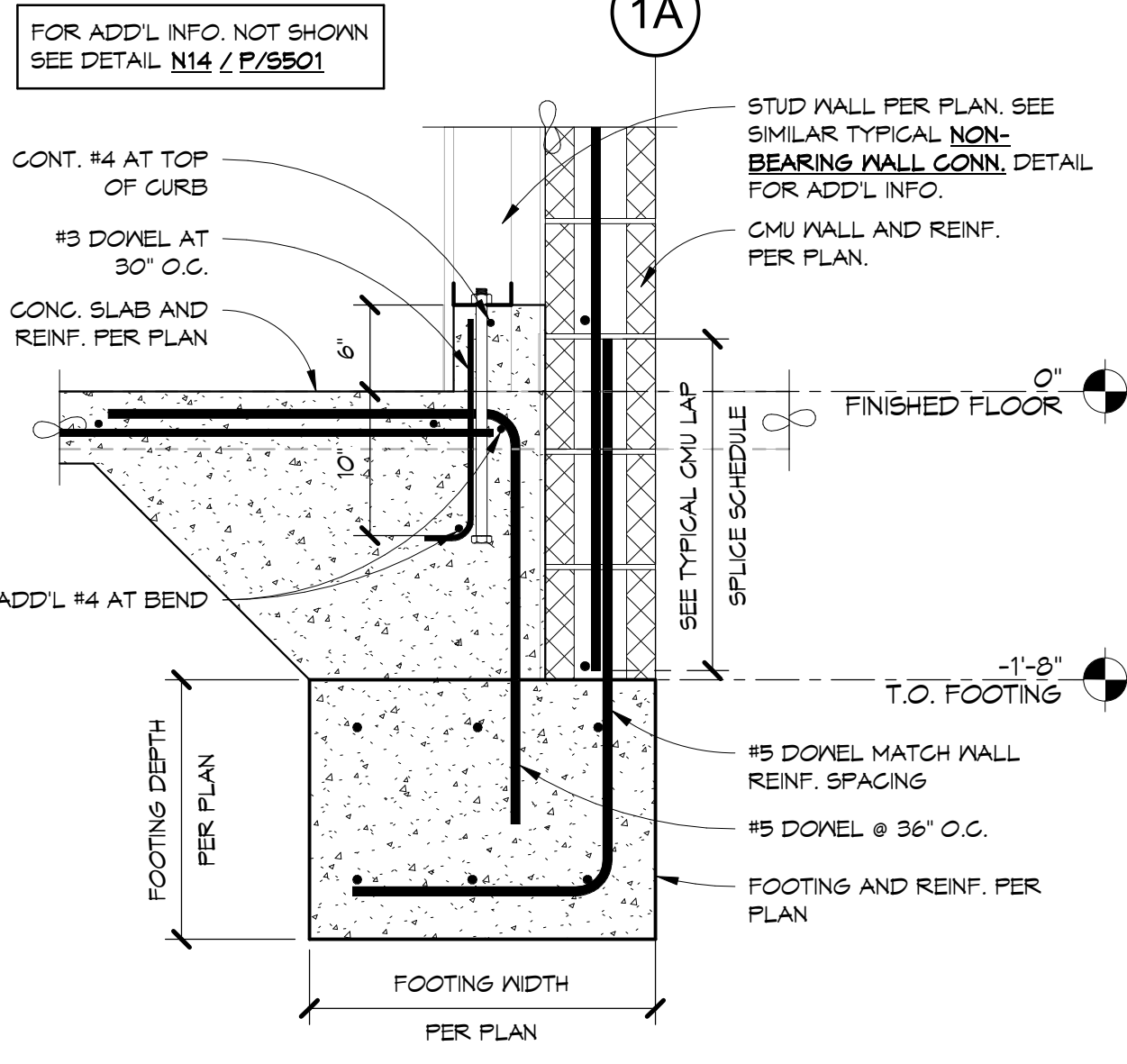
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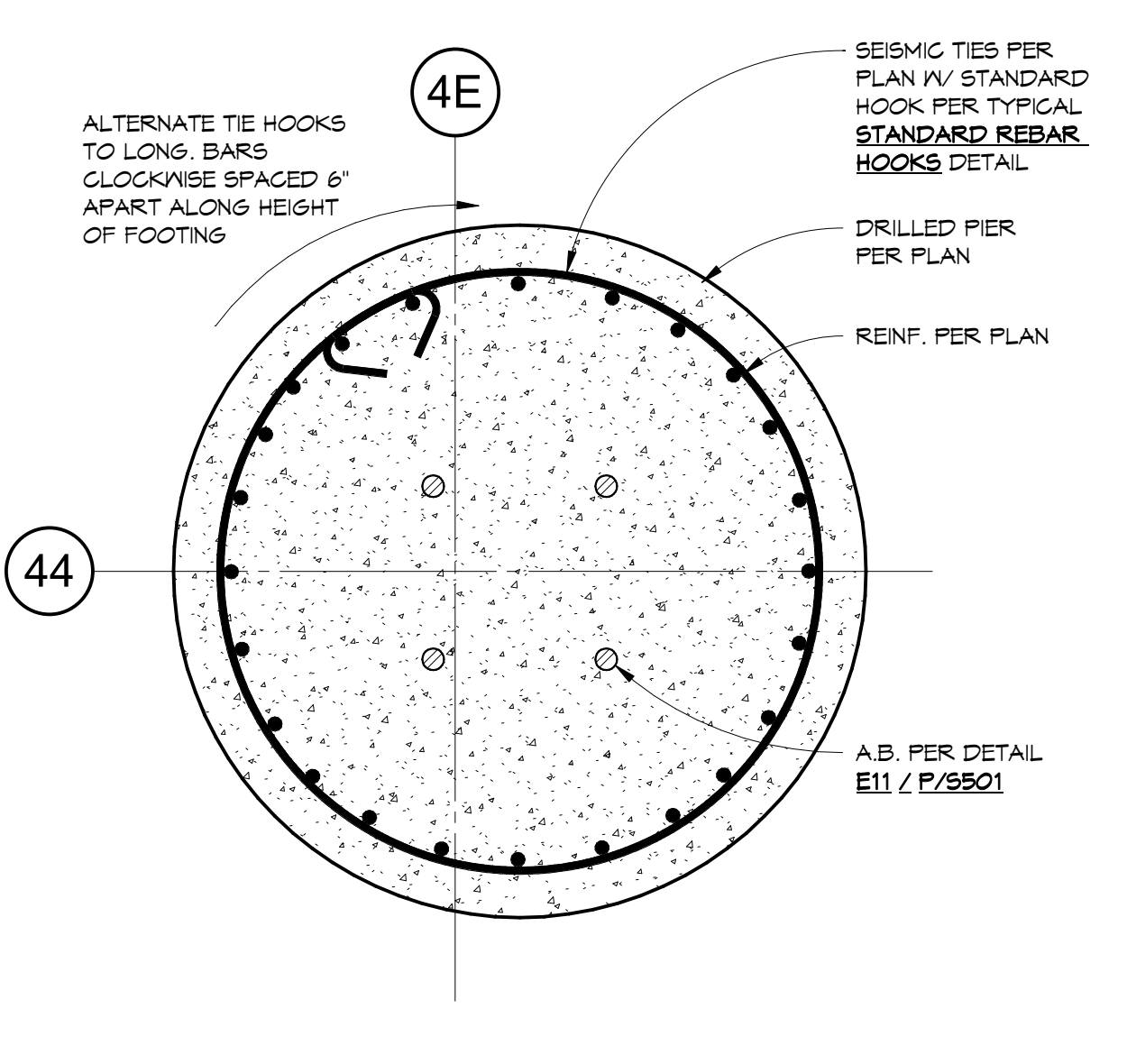
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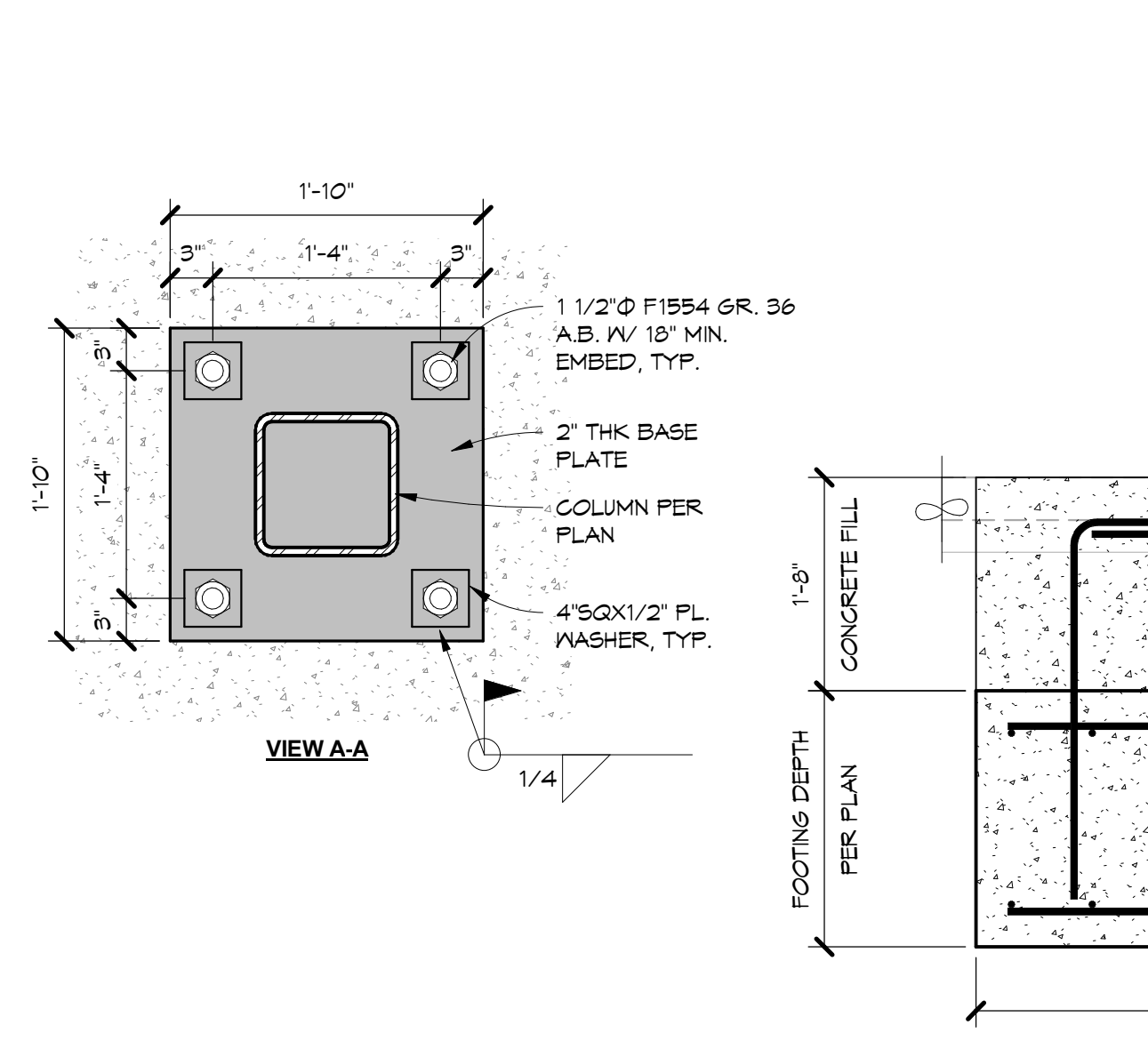
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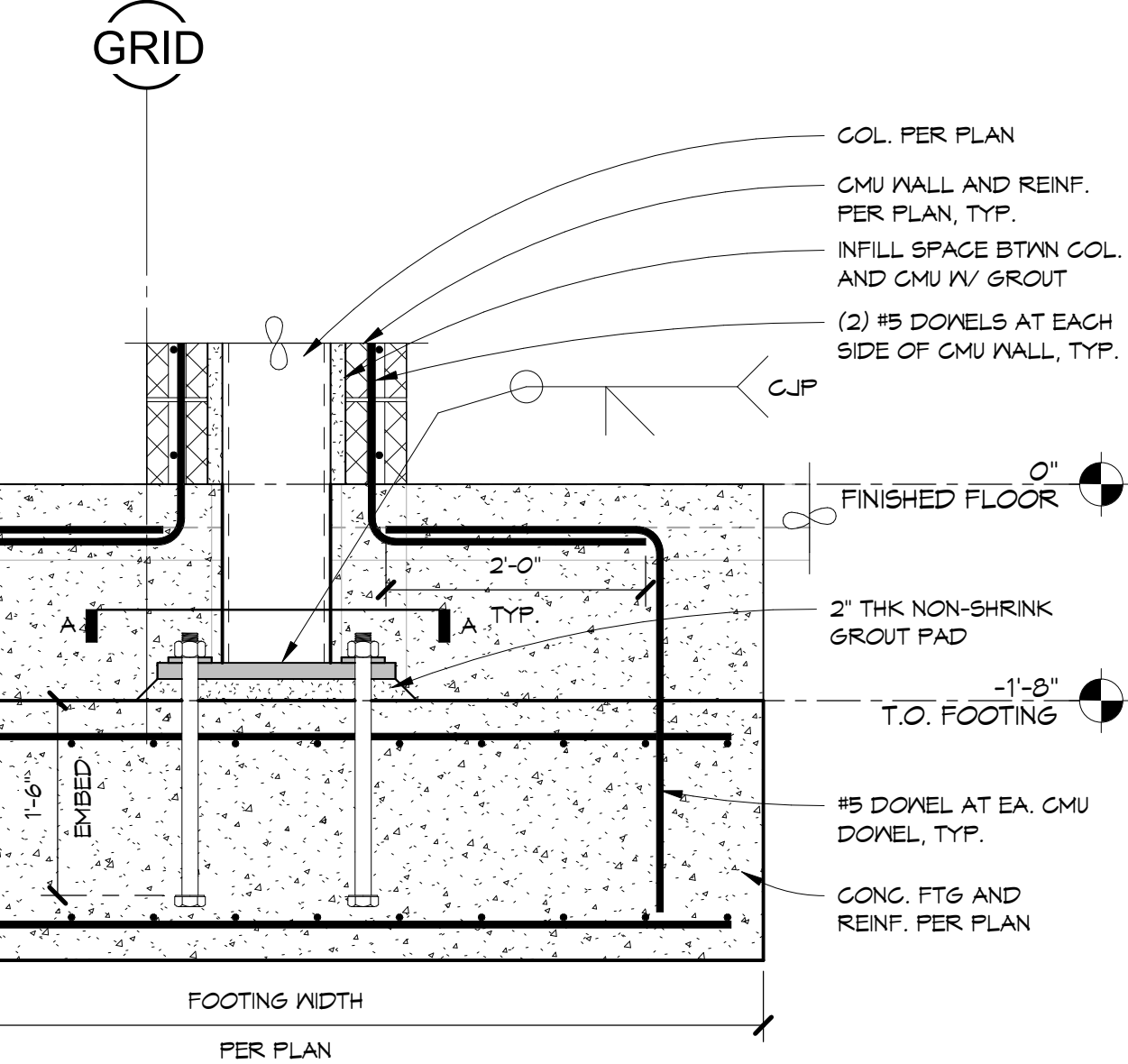
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DSA Application No.: 02-120251

DETAIL 31: FOR ADD'L INFO. NOT SHOWN SEE DETAIL N14 / P/S501. LAP PER TYPICAL LAP SPLICE SCHEDULE. CONG. SLAB & REINF. PER PLAN. FINISHED FLOOR. ADD'L #4 @ BEND. T.O. FOOTING. #5 DOVEL MATCH WALL REINF. SPACING. #5 DOVEL # 36" O.C. #5 DOVEL W/ 180° HOOK AT TOP END. MATCH WALL REINF. SPACING. FOOTING AND REINF. PER PLAN.

DETAIL 1A: FOR ADD'L INFO. NOT SHOWN SEE DETAIL N14 / P/S501. STUD WALL PER PLAN. SEE SIMILAR TYPICAL NON-BEARING WALL CONN. DETAIL FOR ADD'L INFO. CMU WALL AND REINF. PER PLAN. FINISHED FLOOR. ADD'L #4 AT BEND. SEE TYPICAL CMU LAP SPLICE SCHEDULE. T.O. FOOTING. #5 DOVEL MATCH WALL REINF. SPACING. #5 DOVEL # 36" O.C. FOOTING AND REINF. PER PLAN.

Mission Oak HS Aquatic Complex, Tulare Joint Union High School District, Tulare, CA 93274. Project

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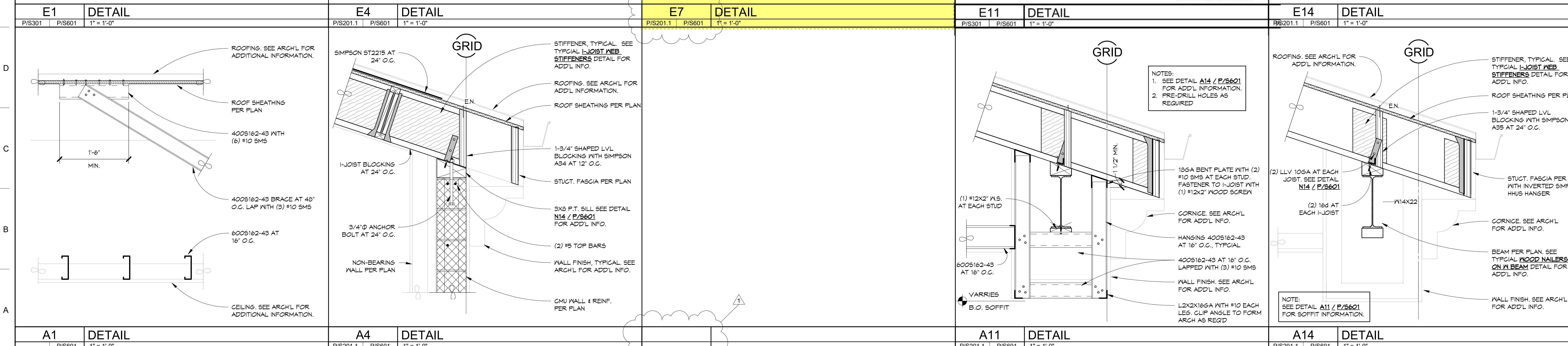
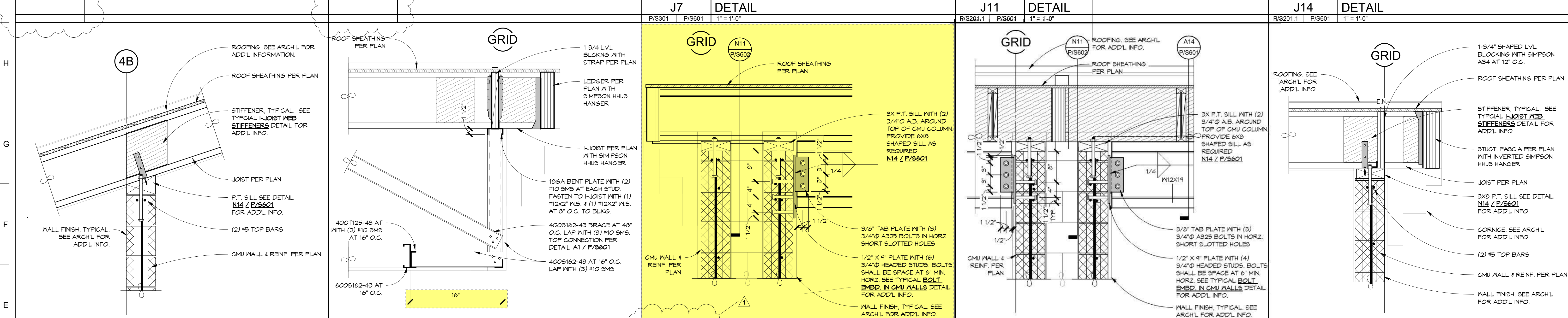
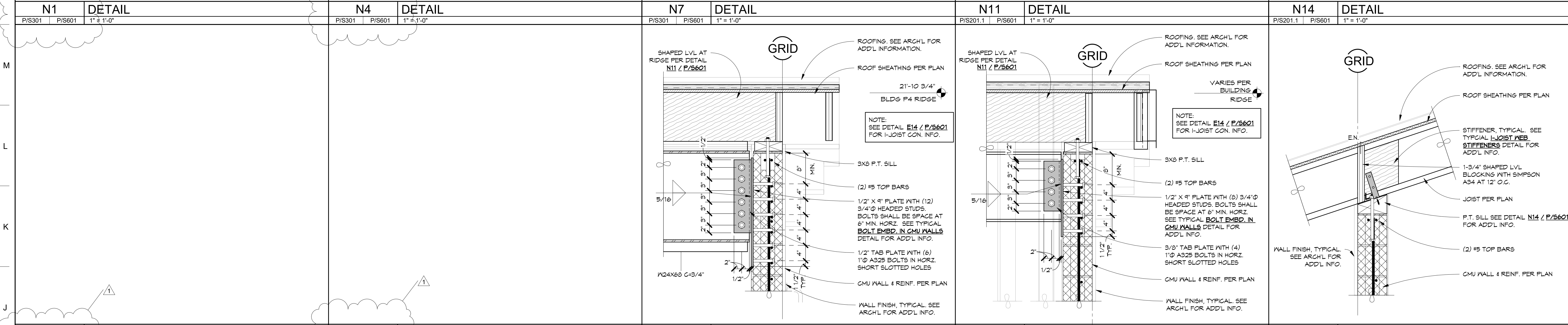
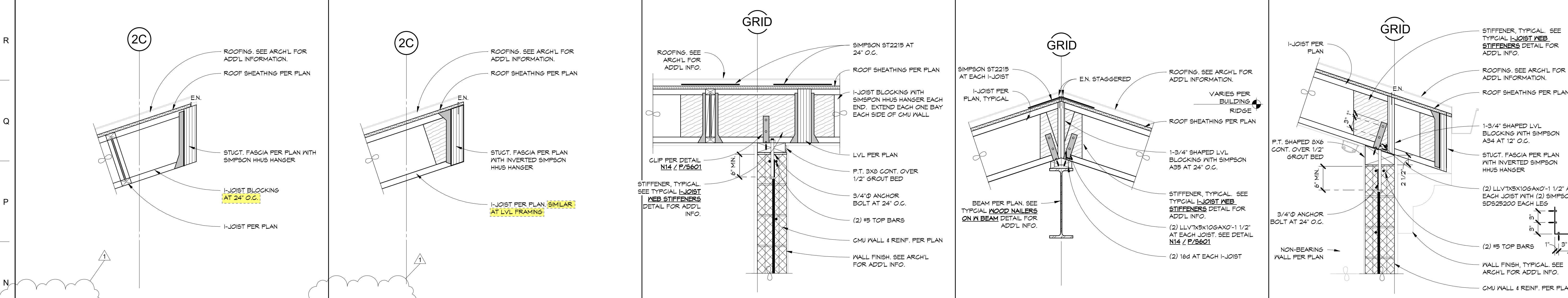


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02-120251

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Consultant

Professional Engineer Seal: Grayford R. Pappas, No. 52386, Exp. 12/31/24, State of California

Mission Oak HS Aquatic Complex
Tulare Joint Union High School District
Tulare, CA 93274

Project

Building P
FRAMING DETAILS

Drawing

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Architect

Professional Architect Seal: Darden Architects, No. 023724, State of California

No.	Revision/Submission	Date
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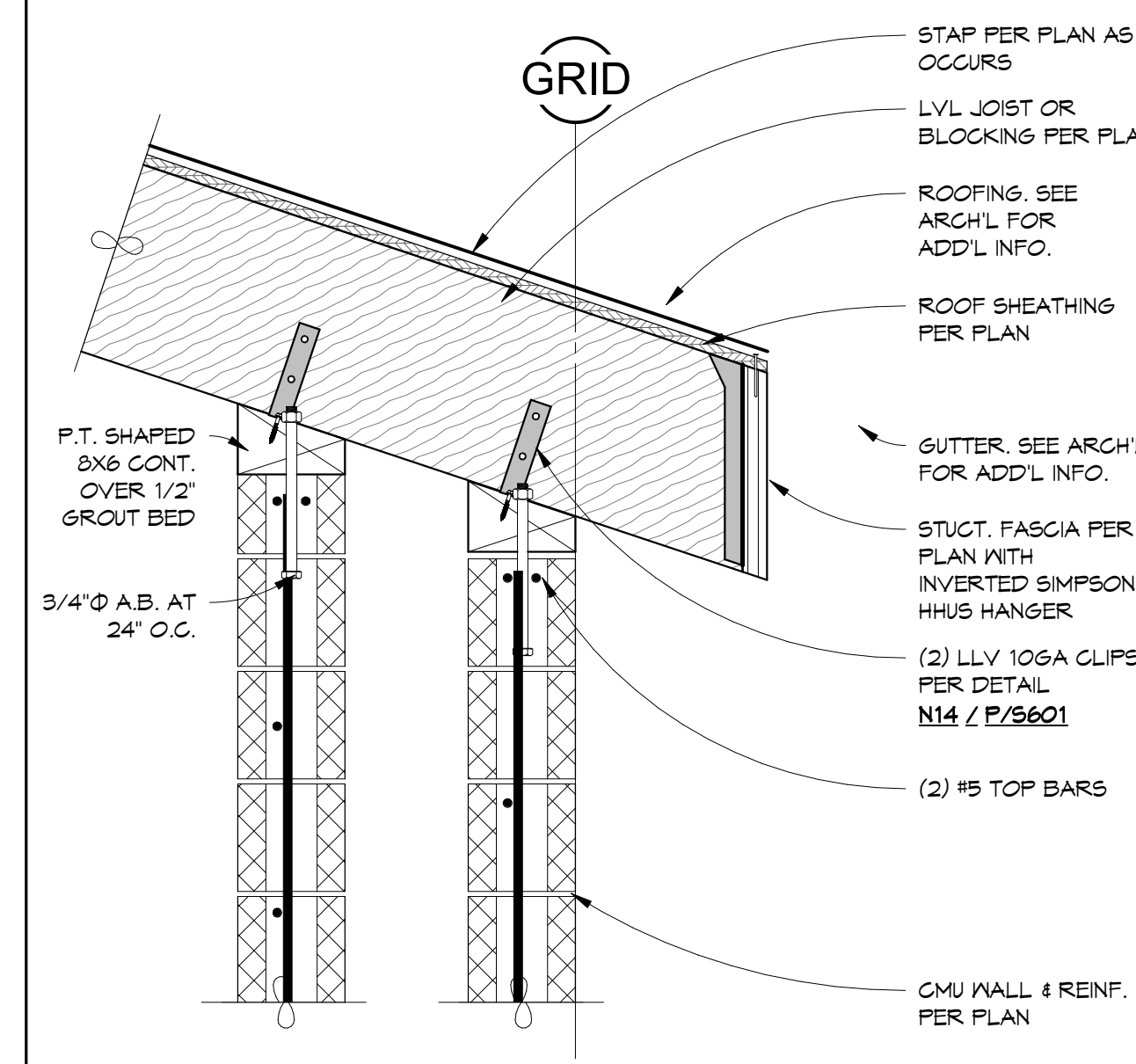
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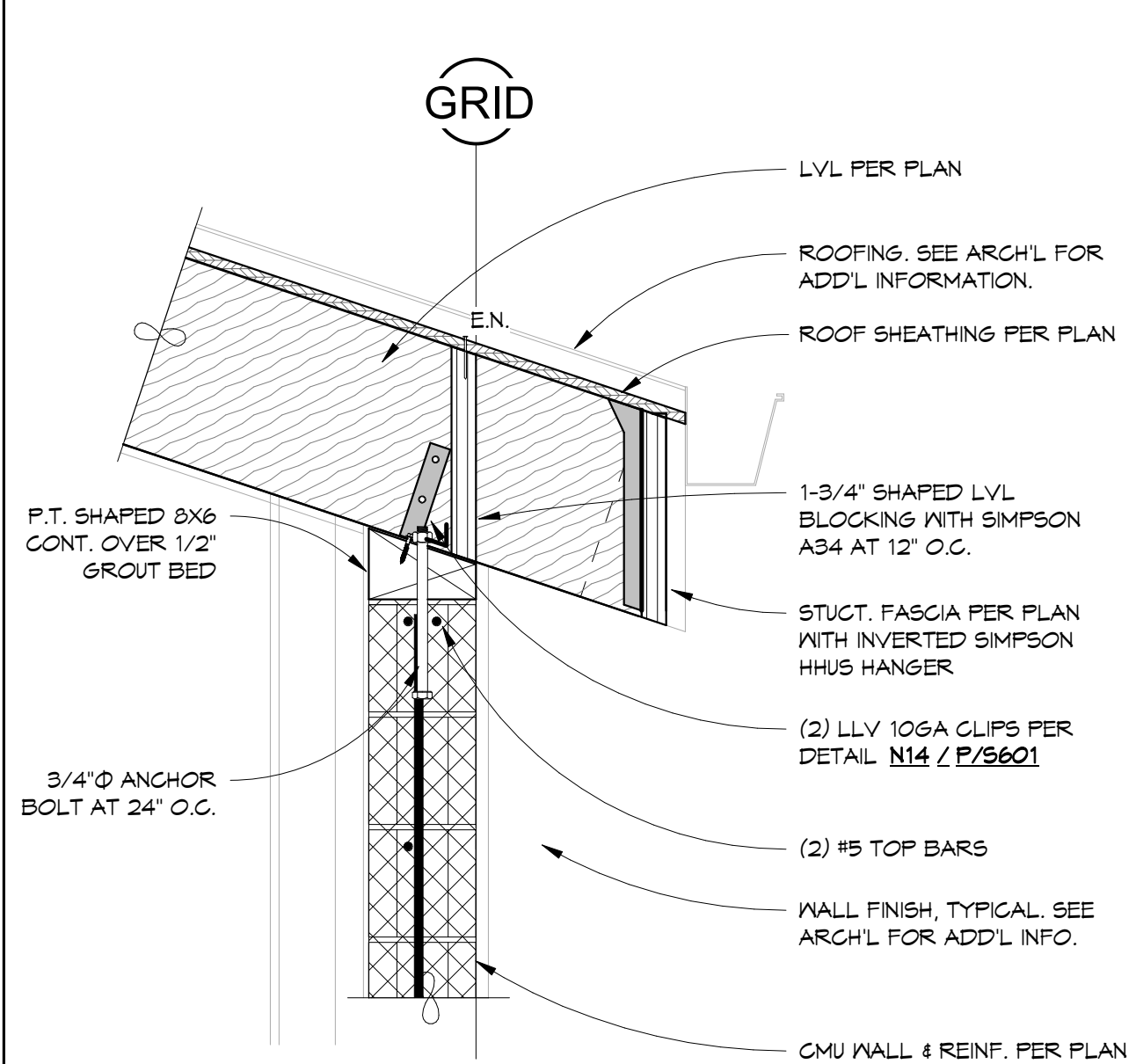
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CONSTRUCTION SET

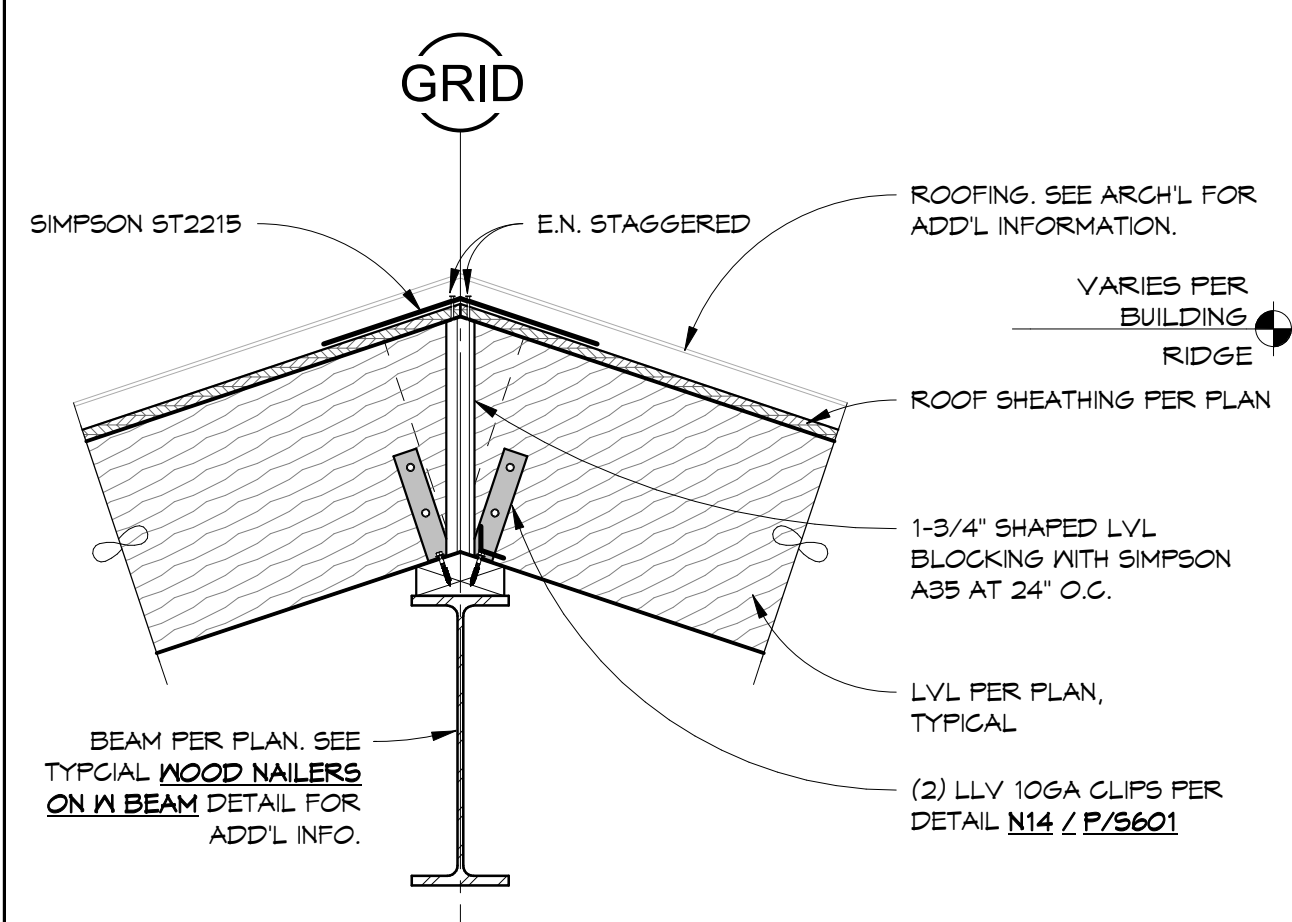
APPROVED BY THE STATE ARCHITECT
APP: 02-120251, INC.
REVIEWED FOR PLS ID: ACS ID
DATE: 08/28/2023



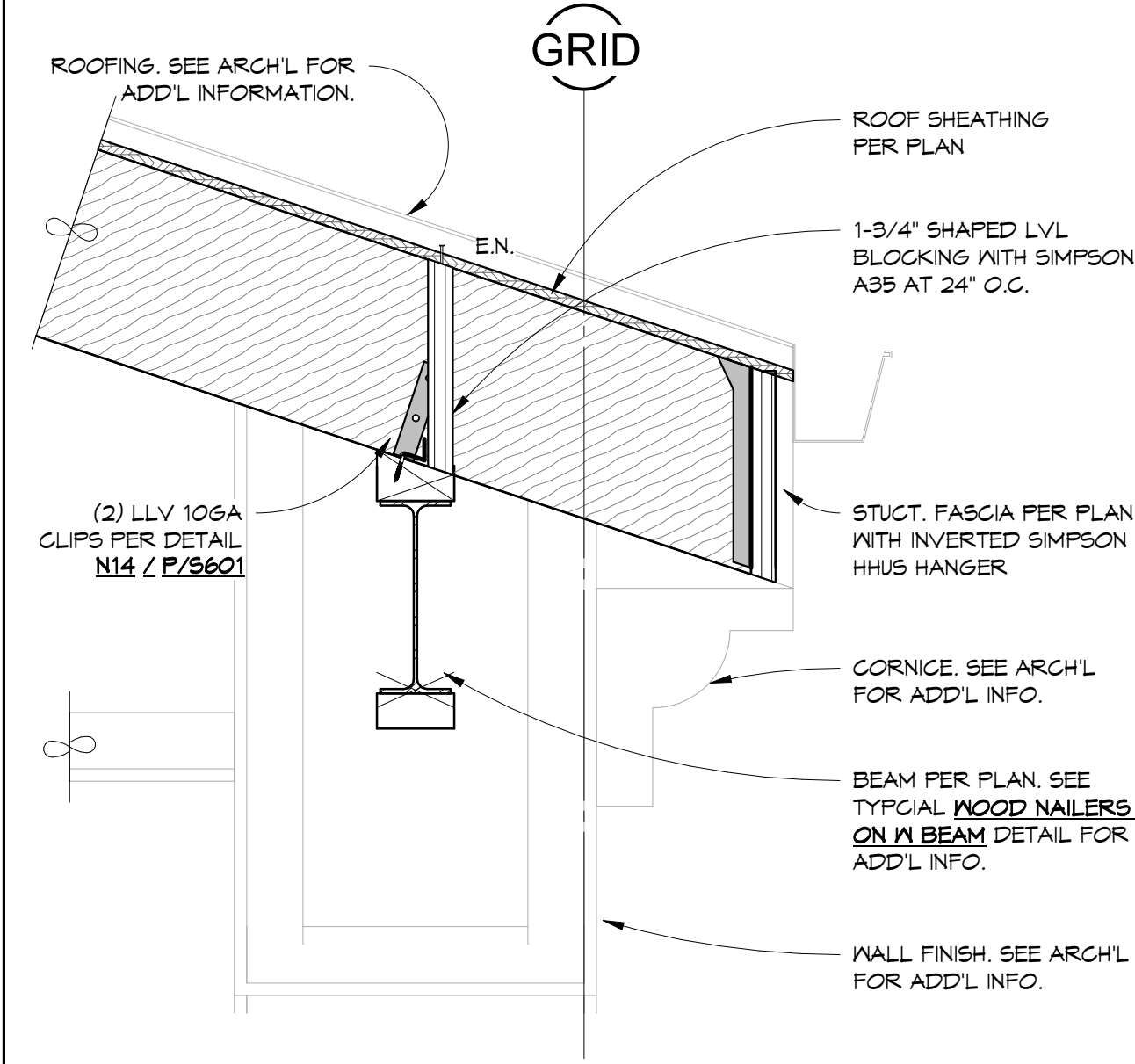
N11 DETAIL
P/S301 | P/S602 | 1" = 1'-0"



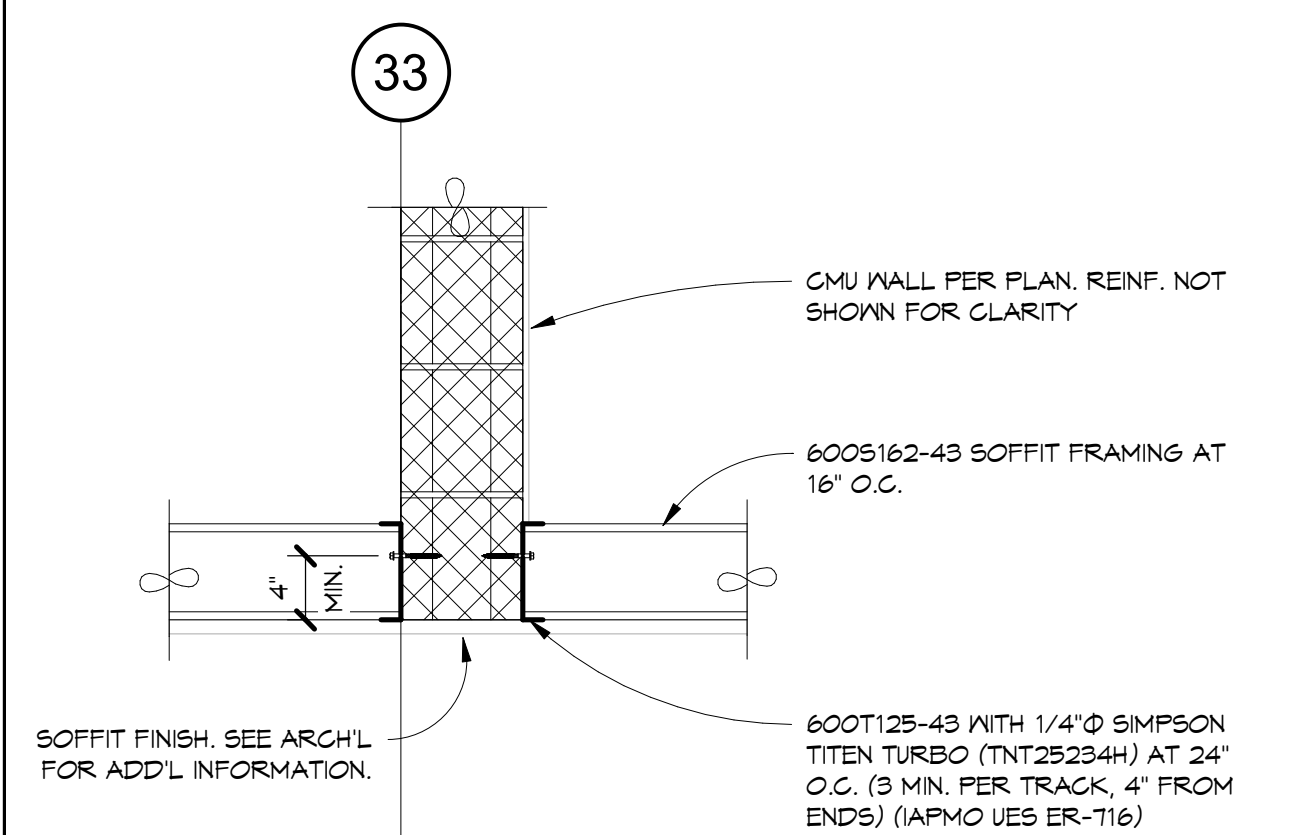
N14 DETAIL
P/S201.1 | P/S602 | 1" = 1'-0"



J14 DETAIL
P/S201.1 | P/S602 | 1" = 1'-0"



E14 DETAIL
P/S201.1 | P/S602 | 1" = 1'-0"



A14 DETAIL
P/S405 | P/S602 | 1" = 1'-0"

DSA File No.:
DSA Application No.: 02-120251
Agency Approval

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Consultant

Mission Oak HS Aquatic Complex
Tulare Joint Union High School District
Tulare, CA 93274
Building P
FRAMING DETAILS
Drawing

darden ARCHITECTURE
PLANNING
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Architect

No.	Revision/Submission	Date
1	REVISION_1	05/31/2023
Revision		
Scale:	1" = 1'-0"	Drawn By: Author
Project Number:	2180	Checked I/Checker
Date:	11/16/2022	Reviewed/Approver

Designed Designer Copyright Darden Architects

P/S602

8/29/2023 8:05:19 AM
C:\Users\eric\Documents\22106 Mission Oak HS Aquatic VE - R22_EricBain2011.rvt

CONSTRUCTION SET

APPROVED
BY THE STATE ARCHITECT
APP: 02-190251, INC.
REVIEWED FOR
SS ID: FLS ID: ACS ID
DATE: 08/28/2023

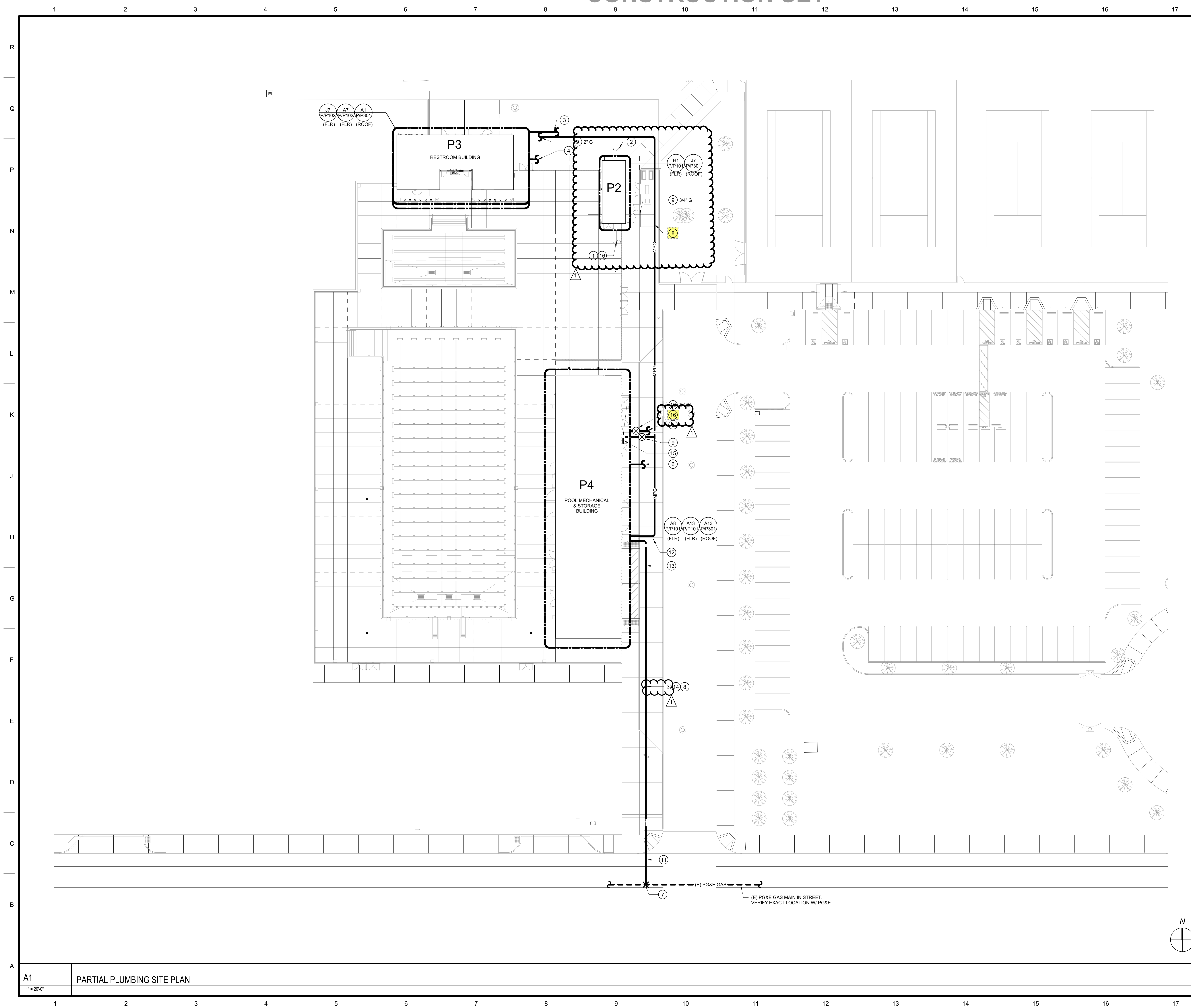
DSA File No.:
DSA File

DSA Application No.:
DSA App

Agency Approval

KEYNOTES

- 1 2" CW TO BUILDING P2. REFER TO CIVIL PLANS FOR CONTINUATION.
- 2 4" S FROM BUILDING P2. REFER TO CIVIL PLANS FOR CONTINUATION.
- 3 2-1/2" CW TO BUILDING P3. SEE CIVIL PLANS FOR CONTINUATION.
- 4 4" S FROM BUILDING P3. REFER TO CIVIL PLANS FOR CONTINUATION.
- 5 3" CW TO BUILDING P4. REFER TO CIVIL PLANS FOR CONTINUATION.
- 6 6" S FROM BUILDING P4. REFER TO CIVIL PLANS FOR CONTINUATION.
- 7 POC. (N) PG&E GAS SERVICE LINE TO (E) GAS MAIN IN STREET. INSTALLATION OF (N) PG&E GAS SERVICE SHALL BE DONE BY A PG&E CERTIFIED SITE CONTRACTOR. PROVIDE SOVV PER PG&E.
- 8 (N) MEDIUM PRESSURE GAS BELOW GRADE IN UTILITY TRENCH PER DETAIL E4 ON SHEET X/P102.
- 9 MPG TO BUILDING WITH BUILDING GAS SOV IN BOX. SEE DETAILS A14 ON SHEET X/P102.
- 10 2-1/2" MPG TO BUILDING P4 WITH BUILDING GAS SOV IN BOX & GAS PRESSURE REGULATOR ABOVE GRADE IN LOCKABLE CAGE. SEE DETAILS J4 ON SHEET X/P102.
- 11 GAS SERVICE ROUTING TO GAS METER INSTALLATION OF (N) PG&E SERVICE SHALL BE DONE BY A PG&E CERTIFIED SITE CONTRACTOR.
- 12 CUSTOMER SIDE GAS ROUTED INTO GAS METER ENCLOSURE.
- 13 UTILITY SIDE GAS ROUTED INTO GAS METER ENCLOSURE.
- 14 MEDIUM PRESSURE GAS PIPING BELOW GRADE TO BUILDINGS. COORDINATE EXACT LOCATION WITH SITE UTILITIES.
- 15 GAS SHUT-OFF VALVE SIGN MOUNTED ON WALL. SEE DETAIL A8 ON SHEET X/P102.
- 16 CW TO BUILDING WITH BUILDING SOV IN BOX. SEE DETAIL A14 ON SHEET X/P102.



General Notes

NET POSITIVE consulting engineers
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project no. 1101

Consultant

Mission Oak HS Aquatic Complex
Tulare Joint Union High School District
Tulare, CA 93274

Project

SITE DEVELOPMENT
PARTIAL PLUMBING SITE PLAN

Drawing

ARCHITECTURE PLANNING INTERIORS
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Architect

No.	Revision/Submission	Date
1	REVISION_01	05/31/2023

Revision

Designed By: JCS Copyright 2022 Darden Architects

Scale: As indicated Drawn By: AV

Project Number: 2180 Checked By: HB

Date: 07/13/2022 Reviewed By: JCS

SD/P102

8/15/2023 5:45:16 PM

A1 PARTIAL PLUMBING SITE PLAN

1" = 20' 0"

CONSTRUCTION SET

APPROVED BY THE STATE ARCHITECT
APP: 02-190251, INC.
REVIEWED FOR
PLS BY ACS: B
DATE: 08/28/2023

PLUMBING SCHEDULE

PLUMBING FIXTURE SCHEDULE						
MARK	FIXTURE	S OR W	V	CW	HW	DESCRIPTION
WC-1	WATER CLOSET ADA	4"	2"	1"	-	KOHLER "HIGHCLIFF ULTRA" MODEL K-96057-0, FLOOR-MOUNT, ELONGATED BOWL, HIGH EFFICIENCY, ANTI-MICROBIAL GLAZE, ZURN ZER8000PL-HET-CPM SENSOR OPERATED, BATTERY POWERED, 1.28 GPF AUTOMATIC FLUSH VALVE WITH MANUAL OVERRIDE, CHURCH 295SSCT SOLID PLASTIC OPEN FRONT SEAT WITH CHECK STAINLESS STEEL HINGE POSTS, SELF-SUSTAINING HINGES, AND STAT-TITE FASTENING SYSTEM, COLOR: WHITE.
WC-2	WATER CLOSET	4"	2"	1"	-	KOHLER "HIGHCLIFF ULTRA" MODEL K-96057-0, FLOOR-MOUNT, ELONGATED BOWL, HIGH EFFICIENCY, ANTI-MICROBIAL GLAZE, ZURN ZER8000PL-HET-CPM SENSOR OPERATED, BATTERY POWERED, 1.28 GPF AUTOMATIC FLUSH VALVE WITH MANUAL OVERRIDE, CHURCH 295SSCT SOLID PLASTIC OPEN FRONT SEAT WITH CHECK STAINLESS STEEL HINGE POSTS, SELF-SUSTAINING HINGES, AND STAT-TITE FASTENING SYSTEM, COLOR: WHITE.
U-1	URINAL ADA	2"	1-1/2"	3/4"	-	KOHLER K-5452-ET-0 "DEXTER" 0.125 GPF, WALL-HUNG, WASHOUT URINAL WITH STRAINER, ZURN ZER8000AV-ULF-CPM AQUA ADVANTAGE WITH TRIPLE FILTERED DIAPHRAGM, SENSOR OPERATED, BATTERY POWERED, 0.125 GPF AUTOMATIC FLUSH VALVE WITH MANUAL OVERRIDE, AND JAY R. SMITH 637 FLOOR-MOUNTED SUPPORT CARRIER WITH BOTTOM BEARING PLATE. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS. COLOR: WHITE.
L-1	LAVATORY ADA	2"	1-1/2"	3/4"	3/4"	BRADLEY MODEL MF2949-AST4-NSD WALL-HUNG, QUADRA-FOUNT WASHFOUNTAIN, 46"x26", SOLID SURFACE "TERREON", TYPE 304 STAINLESS STEEL, PEDESTAL FRAME AND ACCESS PANEL, AND (4) MANUAL AIR PUSHBUTTONS, PROVIDE BATTERY-POWERED, INFRARED SENSOR-OPERATED METERING (IBRS) SET FOR 10 SECOND MINIMUM / 30 SECOND MAXIMUM CYCLE TIME WITH 0.5 GPM FLOW, PROVIDE MCOUIRE 155WC OFFSET GRID DRAIN, PROVIDE NAVIGATOR THERMOSTATIC MIXING ASSEMBLY (TMA), SEE ARCHITECTURAL PLANS FOR ACCESSIBLE MOUNTING HEIGHTS, COORDINATE COLOR SELECTION WITH ARCHITECT.
L-2	LAVATORY ADA	2"	1-1/2"	3/4"	3/4"	KOHLER "KINGSTON" MODEL K-2005-0 WALL-HUNG, 20"x18" VITREOUS CHINA WITH BACKSPASH, WALL BRACKET AND 4" CENTER FAUCET HOLES, CHICAGO FAUCET MODEL 3300-ABCP MANUAL METERING FAUCET WITH 0.5 GPM SPRAY OUTLET, SET FAUCET FOR 10 SECOND MINIMUM/30 SECOND MAXIMUM CYCLE TIME, LEONARD 170-LF THERMOSTATIC MIXING VALVE SET AT 100°F, ASSE 1070-2015, MCGUIRE 155WC OFFSET GRID DRAIN AND JAY R. SMITH 700 SERIES SUPPORT CARRIER WITH CONCEALED ARMS, SEE ARCHITECTURAL DRAWINGS FOR ACCESSIBLE MOUNTING HEIGHTS, COLOR: WHITE.
SH-1	SHOWER ADA	-	-	3/4"	3/4"	BRADLEY CORPORATION MODEL HN200-TTPA-S15-ST-RSS-GB-VS, RECESSED MOUNTED CALIFORNIA ADA (CBC T24) COMPLIANT, 14 GAUGE STAINLESS STEEL, PRE-ASSEMBLED SHOWER SYSTEM WITH (1) FIXED SHOWERHEAD AND (1) HAND-HELD SHOWERHEAD, PRESSURE BALANCING SHOWER VALVE WITH LEVER HANDLE W/ THERMOSTATIC MIXING VALVE SET FOR 120°F MAXIMUM ASSE 1016-2017, STAINLESS STEEL, BALANCING PISTON AND BOTTOM ACCESS INTEGRAL SERVICE STOPS, 14 GAGE STAINLESS STEEL SHROUD, CHROME-PLATED BRASS SHOWER HEAD WITH FLOW CONTROL, ON INSTITUTIONAL BRACKET, METAL STEM HANDLE AND VANDAL-PROOF SECURING SCREWS, MAXIMUM FLOW RATE 2.5 GPM AT 80 PSI.
SH-2	SHOWER VALVE FITTINGS	-	-	3/4"	3/4"	ZURN Z7500-I2-LS-14 "AQUA-PANEL" SHOWER UNIT, PRE-FABRICATED STAINLESS STEEL SHOWER UNIT W/ TEMP-GARD BALANCING SHOWER VALVE WITH SINGLE BRONZE STEM W/ THERMOSTATIC MIXING VALVE SET FOR 120°F MAXIMUM ASSE 1016-2017, STAINLESS STEEL, BALANCING PISTON AND BOTTOM ACCESS INTEGRAL SERVICE STOPS, 14 GAGE STAINLESS STEEL SHROUD, CHROME-PLATED BRASS SHOWER HEAD WITH FLOW CONTROL, ON INSTITUTIONAL BRACKET, METAL STEM HANDLE AND VANDAL-PROOF SECURING SCREWS, MAXIMUM FLOW RATE 2.5 GPM AT 80 PSI.
SH-3	FREE-STANDING OUTDOOR SHOWER	-	-	3/4"	3/4"	ACORN "SHOWER-WARE" MODEL 901-6-LVR-P, 14 GAUGE, TYPE 304 STAINLESS STEEL PYLON SHOWER WITH SATIN FINISH STEEL PLATE BASE WITH COATABLE POLISHED CHROME FINISH, 14 GAUGE, TYPE 304 STAINLESS STEEL, THERMOSTATIC MIXING VALVE SET FOR 120°F MAXIMUM ASSE 1016-2017, STAINLESS STEEL, BALANCING PISTON AND BOTTOM ACCESS INTEGRAL SERVICE STOPS, 14 GAGE STAINLESS STEEL SHROUD, CHROME-PLATED BRASS SHOWER HEAD WITH FLOW CONTROL, ON INSTITUTIONAL BRACKET, METAL STEM HANDLE AND VANDAL-PROOF SECURING SCREWS, MAXIMUM FLOW RATE 2.5 GPM AT 80 PSI.
FD-1	FLOOR DRAIN (ACID RESISTANT)	2"	1-1/2"	TP	-	"SPEARS" #LW1600-04096, 5" DIAMETER SS GRATE, CPVC FLOOR DRAIN W/ ROUND GRATE, NO HUB OUTLET AND TRAP PRIMER CONNECTION.
TD-1	TRENCH DRAIN	3"	1-1/2"	TP	-	ZURN Z886 PERMA-TRENCH 6" DRAIN SYSTEM WITH 4" THROAT, LENGTH PER PLAN WITH 0.75% SLOPE BUILT-IN, HOPE TRENCH DRAIN SYSTEM WITH POLYPROPYLENE HEEL-PROOF ADA COMPLIANT 20" LONG SLOTTED GRATE, CLOSED END CAP, AND 4" NO-HUB BOTTOM.
FS-1	FLOOR SINK	2"	1-1/2"	TP	-	JAY R. SMITH 3140Y-12-C, 12"x12"x10" DEEP COATED CAST IRON WITH NICKEL BRONZE RM WITH HALF GRATE, DOME BOTTOM STRAINER, DOUBLE DRAINAGE FLANGE, NO HUB OUTLET, AND TRAP PRIMER CONNECTION FITTING WHERE APPLICABLE.
FS-2	FLOOR SINK (ACID RESISTANT)	3"	2"	TP	-	JAY R. SMITH 3160Y-12-C, 12"x12"x10" ACID RESISTANT COATED FLOOR SINK, DOME BOTTOM STRAINER, DOUBLE DRAINAGE FLANGE, NO HUB OUTLET, AND TRAP PRIMER CONNECTION FITTING WHERE APPLICABLE.
FS-3	FLOOR SINK (ACID RESISTANT)	6"	3"	TP	-	JAY R. SMITH 3251Y-12, 24"x12"x11" ACID RESISTANT COATED FLOOR SINK, DOME BOTTOM STRAINER, DOUBLE DRAINAGE FLANGE, NO HUB OUTLET, AND TRAP PRIMER CONNECTION FITTING WHERE APPLICABLE.
TP-1	TRAP PRIMER	-	-	3/4"	-	PRECISION PLUMBING PRODUCTS MODEL P1-500 PRESSURE DROP ACTIVATED, BRASS CONSTRUCTION, WITH #DU-U DISTRIBUTION UNIT FOR UP TO (4) FLOOR DRAINS, PROVIDE 1/2"x1/2" STAINLESS STEEL ACCESS DOOR WITH CYLINDER LOCK, PROVIDE SOV UPSTREAM OF TRAP PRIMER.
MS-1	MOP SINK	3"	2"	3/4"	3/4"	KOHLER "WHITBY" K-6710 CORNER-STYLE FLOOR-MOUNTED, 28"x28"x12" DEEP ENAMELED CAST IRON WITH #K-8940 RM QUARD, #K9148 DRAIN STRAINER, #K9798 WALL-MOUNT, POLISHED CHROME FAUCET WITH HOSE THREAD OUTLET, VACUUM BREAKER, INTEGRAL STOPS, INTEGRAL CHECK VALVES, AND WALL BRACE, FLORESTONE #MR-370 HOSE WITH HOOK AND #MR-372 MOP HANGER.
WS-1	HAND WASH SINK	2"	1-1/2"	3/4"	3/4"	JUST MFG. A-3338 WALL-HUNG, 16"x18", 18 GAUGE, TYPE 304 STAINLESS STEEL WITH BACKSPASH AND WALL BRACKET, 4" CENTER FAUCET HOLES, STAINLESS STEEL GRID DRAIN, AND CHICAGO 885-317RGD1ABCP DECK-MOUNTED 2" GPM COSINECK FAUCET HANDLE, PROVIDE 1/2" GPM COSINECK 4" POINT OF USE THERMOSTATIC MIXING VALVE BELOW SINK, PROVIDE A STEEL SUPPORT PLATE FOR MOUNTING FIXTURE PER DETAIL X ON SHEET XPI102. SEE ARCHITECTURAL DRAWINGS FOR ACCESSIBLE MOUNTING HEIGHT.
DF-1	DRINKING FOUNTAIN ADA	2"	1-1/2"	3/4"	-	ELKAY EZ20 BOTTLE FILLING STATION WITH MODEL VRC1L8WSK INTEGRAL HI-LO BARRIER-FREE REFRIGERATED FOUNTAIN, WALL-MOUNTED STAINLESS STEEL WITH DUAL FOUNTAINS, POLISHED CHROME PLATED BRASS BUBBLER HEADS, PUSH BUTTON VALVES, MOUNTING FRAME, CHILLER TO PROVIDE 5.0 GPM FLOW FOR COLD REFRIGERATED WATER, PROVIDE OPTIONAL WATER FILTER KIT FOR BOTTLE FILLER (MODEL EWF3000), ELECTRICAL REQUIRED FOR CHILLER: 120V, 370 WATTS, ELECTRICAL REQUIRED FOR BOTTLE FILLER: 120V, 370 WATTS.
WH-1	WATER HEATER (BUILDING P3)	-	-	1-1/2"	1-1/2"	INTELLIHOT MODEL IN401, MULTIPLE STAINLESS HEAT EXCHANGER, TURNDOWN RATIO OF 13.3:1 PER UNIT, INDOOR FLOOR MOUNTED, ON DEMAND WATER HEATER, WEIGHT: 345, LBS 120V / 60 HZ, MAX 9.5 AMPS, 16 W ON STANDBY
WH-2	WATER HEATER (BUILDING P4)	-	-	3/8"	3/8"	CHROMOMITE MODEL M-40/208 INSTANT FLOW STANDARD STANDARD FLOW INSTANTANEOUS ELECTRIC WATER HEATER WITH FIELD ADJUSTABLE TEMPERATURE MICROPROCESSOR SET TO DELIVER 120 DEGREE F. HOT WATER OUTLET TEMPERATURE AT 1.0 GPM GLOW RATE, 6.320 WATTS, 40 AMPS, 208V/1 PHASE.
WH-3	WATER HEATER (BUILDING P2 ALT BID)	-	-	1-1/2"	1"	NAVIENT MODEL NPE-180A2, TANKLESS WATER HEATER, ANSI Z21.10.3 - CSA 4.3 LATEST STANDARDS, BUILT IN ADVANCED MULTI-LINES CONTROL PANEL WIT TEMPERATURE OPTIONS AND READY-LINK CASCADE COMPATIBILITY, FLOW RATE OF 8.4 GPM, WEIGHT: 73 LBS, 120V AC, 60 HZ.
TE-1	THERMAL EXPANSION TANK	-	-	1/2"	-	WILKINS AT-35, 3 GALLON CAPACITY ASME RATED EXPANSION TANK WITH IN-LINE CONNECTIONS, LEAD-FREE, AND FDA-APPROVED BLADDER FOR POTABLE WATER USE, WEIGHT = 15.5 LBS.
CP-1	CIRCULATING PUMP	-	-	3/4"	-	GRUNDFOS MODEL UPS15-555FC STAINLESS STEEL DOMESTIC HOT WATER IN-LINE CIRCULATING PUMP, WITH FLANGED CONNECTIONS, 3-SPEED MOTOR, INTEGRAL CHECK VALVE, 5 GPM AT 13 FT. TDH, 1/12 HP, 120V / 1 PH, CONTROL THRU "HONEYWELL" AQUASTAT AND DIGITAL 365-DAY TIME CLOCK OR EMS CONTACTS, WEIGHT = 5 LBS.
MV-1	MIXING VALVE	-	-	2" IN	1-1/4" IN 1-1/2" OUT	LEONARD PROTON ELECTRONIC VALVE MODEL PNV-150-LF-2PS, 2" INLETS, 3" OUTLET, LEAD-FREE THERMOSTATIC MIXING VALVE WITH INLET CHECK STOPS AND STRAINERS, OUTLET BALL VALVE AND PROGRAMMABLE SET POINT RANGE WITH DIGITAL THERMOMETER, 0.5 GPM MINIMUM FLOW, 50 GPM FLOW AT 20 PSI DROP, LOCKING TEMPERATURE REGULATING HANDLE SET FOR 120°F, ASSE 1017-2009.
SA-1	SHOCK ABSORBER	-	-	1"	-	SIoux CHIEF HYDRA-RESTER MODEL 654-CS SEAMLESS COPPER CHAMBER APPROVED FOR CONCEALED INSTALLATION, PDI SYMBOL "C", INSTALL IN UPWARD POSITION.
HB-1	HOSE BIBB	-	-	3/4"	-	WOODFORD MODEL 24P, 3/4" INLET SIZE, BRASS WALL HOSE FAUCET WITH ROUGH BRASS FINISH, WALL FLANGE, NON-REMOVABLE VACUUM BREAKER, AND OPTIONAL LOOSE TEE KEY HANDLE, PROVIDE POLISHED CHROME FINISH FOR INDOORS, ROUGH BRASS FINISH FOR OUTDOORS.
GPR-1	GAS PRESSURE REGULATOR (BUILDING P4)	-	-	-	-	"ELSTER AMERICAN" SERIES 3000 DIECAST ALUMINUM REGULATOR WITH CAST IRON PIPE SECTION, FULL CAPACITY RELIEF VALVE, 1-1/4" FLANGED INLET AND OUTLET, PROVIDE OPTIONAL INLET AND OUTLET 1/8" PRESSURE TAPS, SPRING NO. 70157035, 5,000 MAXIMUM CAPACITY AT 2PSIG INLET AND 12" W.C. OUTLET GAS PRESSURE.
GPR-2	GAS PRESSURE REGULATOR (BUILDING P3 & P2(ALT BID))	-	-	-	-	"ELSTER AMERICAN" SERIES 1813C DIECAST ALUMINUM REGULATOR WITH CAST IRON PIPE SECTION, FULL CAPACITY RELIEF VALVE, 3/4" SCREWED INLET AND OUTLET, 3/16" ORIFICE SIZE, SPRING NO. 70017P123, 2000 CFH MAXIMUM CAPACITY AT 2PSIG INLET AND 12" W.C. OUTLET GAS PRESSURE.
BP-1	BLOCKING PREVENTOR	-	-	-	-	WILKINS 07XV-U-120-AG, REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY, BRONZE BODY, WITH UNION CONNECTIONS, 1/2" NPT INLET AND 1/2" NPT OUTLET, 1/2" NPT AIR GAP DRAIN OUTLET AND DISCHARGE INTO FLOOR SINK.
HD-1	HUB DRAIN	4"	2"	TP	-	HUB DRAIN WITH 6" TOP FUNNEL, NO HUB OUTLET, AND TRAP PRIMER CONNECTION FITTING WHERE APPLICABLE.
IM-1	ICE MAKER BOX	-	-	3/4"	-	SIoux CHIEF 696 SERIES SUPPLY OXBOX WITH 1/4"-TURN VALVE, FRAME, AND ARRESTER, SECURE DIRECTLY TO VERTICAL STUD OR BETWEEN STUDS USING MANUFACTURER'S GALVANIZED BRACKET.
WF-1	WATER FILTER (ICE MACHINE)	-	-	3/8"	-	EVERPURE "INSURE SINGLE 2000" MODEL #EV9324-01 ICE MACHINE WATER FILTER SYSTEM WITH #EV9612-22 0.5 MICRON CARTRIDGE, 1.67 GPM MAXIMUM FLOW RATE, 9,000 GALLONS RATED CAPACITY, WALL MOUNTING BRACKET, PROVIDE (2) ADDITIONAL REPLACEMENT CARTRIDGES, MODEL #EV9612-22, OVERALL DIMENSIONS: 29.64" HIGH x 8.04" WIDE x 5.25" DEEP, WEIGHT = 9 LBS.
KSF-1	KITCHEN SINK FAUCET	-	-	3/4"	3/4"	(1) ZURN Z843G1-XL-19F WALL MOUNT FAUCET WITH 1.5 GPM 8" SWING SPOUT, AND 8" CENTER FAUCET HOLES.

ANCHORAGE & BRACING NOTES

MEP COMPONENT ANCHORAGE NOTE
ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
- TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

- COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

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

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

- MD MP PP E - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
- MD MP PP E - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) 0043-13.

GAS METER DEMAND CALC'S

BUILDING P2 (ALT BID)			
EQUIPMENT	EQUIPMENT DEMAND (MBH)	UNIT #	TOTAL DEMAND (MBH)
WATER HEATER	150	1	150.0
GPR-2 SHEET P/P101 BUILDING TOTAL			150.0
BUILDING P3			
EQUIPMENT	EQUIPMENT DEMAND (MBH)	UNIT #	TOTAL DEMAND (MBH)
WATER HEATER	399.9	2	799.8
GPR-2 SHEET P/P102 BUILDING TOTAL			799.8
BUILDING P4			
EQUIPMENT	EQUIPMENT DEMAND (MBH)	UNIT #	TOTAL DEMAND (MBH)
WARM UP POOL BOILER	1000	1	1000
LAP POOL BOILER	1500	3	4500
GPR-1 SHEET P/P101 BUILDING TOTAL			5500
AQUATIC COMPLEX TOTAL			6449.8
@ 550 FEET, 3" MPG (2 PSI) TO START PER CPC 2019, TABLE 1215.2(4)			

PLUMBING LEGEND

SYMBOL	ITEM	ABBR.
—A—	ABOVE CEILING	ABV
—AF—	ABOVE FINISHED FLOOR	ABV CLG
—ALT—	ALTERNATE	ALT
—AND—	AND	AND
—ARCH—	ARCHITECT / ARCHITECTURAL	ARCH
—AT—	AT	AT
—BEL FLR—	BELOW FLOOR	BEL FLR
—BEL GR—	BELOW GRADE	BEL GR
—CMC—	CALIFORNIA MECHANICAL CODE	CMC
—CPC—	CALIFORNIA PLUMBING CODE	CPC
—CLG—	CEILING	CLG
—CLN—	CENTER LINE	CLN
—CONT—	CONTINUATION	CONT
—CFH—	CUBIC FEET PER HOUR	CFH
—DIA—	DIAMETER	DIA
—DN—	DOWN	DN
—DWG—	DRAWING	DWG
—ELL—	ELBOW	ELL
—ELEC—	ELECTRICAL	ELEC
—(E)—	EXISTING	(E)
—FT—	FEET	FT
—FLR—	FLOOR	FLR
—FL—	FLOW LINE	FL
—GAL—	GALLON	GAL
—GPH—	GALLONS PER HOUR	GPH
—GPM—	GALLONS PER MINUTE	GPM
—GA—	GAUGE	GA
—ID—	INSIDE DIAMETER	ID
—IE—	INVERT ELEVATION	IE
—MAX—	MAXIMUM	MAX
—MIN—	MINIMUM	MIN
—(N)—	NEW	(N)
—NIC—	NOT IN CONTRACT	NIC
—NTS—	NOT TO SCALE	NTS
—NO—	NUMBER	NO
—OD—	OUTSIDE DIAMETER	OD
—LBS—	POUNDS	LBS
—PSI—	POUNDS PER SQUARE INCH	PSI
—PSIA—	POUNDS PER SQUARE INCH ABSOLUTE	PSIA
—PSIG—	POUNDS PER SQUARE INCH GAUGE	PSIG
—PVC—	POLYVINYL CHLORIDE	PVC
—RM—	ROOM	RM
—SPEC—	SPECIFICATION	SPEC
—SQ FT—	SQUARE FEET	SQ FT
—SS—	STAINLESS STEEL	SS
—TEMP—	TEMPERATURE	TEMP
—THRU—	THROUGH	THRU
—(TYP)—	TYPICAL	(TYP)
—UIG—	UNDER GROUND	UIG
—WC—	WATER COLUMN	WC
—W/—	WITH	W/
—W/O—	WITHOUT	W/O
—A—	COMPRESSED AIR	A
—AV—	ACID VENT	AV
—AW—	ACID WASTE	AW
—AVR—	ACID VENT RISER	AVR
—AVTR—	ACID VENT THRU ROOF	AVTR
—CD—	CONDENSATE DRAIN	CD
—CW—	DOMESTIC COLD WATER	CW
—HW—	DOMESTIC HOT WATER	HW
—HWR—	DOMESTIC HOT WATER RETURN	HWR
—G—	LOW PRESSURE NATURAL GAS	G
—HPG—	HIGH PRESSURE GAS	HPG
—ICW—	INDUSTRIAL COLD WATER	ICW
—LPG—	LIQUIFIED PETROLEUM GAS	LPG
—F—	FIRE PROTECTION LINE	F
—RWL—	RAIN WATER LEADER	RWL
—OD—	OVERFLOW DRAIN	OD
—SD—	STORM DRAIN	SD
—S or W—	SOIL or WASTE	S or W
—TW—	TEMPERED WATER	TW
—V—	VENT	V
—VR—	VENT RISER	VR
—VTR—	VENT THRU ROOF	VTR
—COTG—	CLEANOUT TO GRADE	COTG
—DEMO—	DEMOLITION	DEMO
—FCO—	FLOOR CLEANOUT	FCO
—HOSE BIBB—	HOSE BIBB	HOSE BIBB
—PIPING TURN UP—	PIPING TURN UP	PIPING TURN UP
—PIPING TURN DOWN—	PIPING TURN DOWN	PIPING TURN DOWN
—PIPING CAP—	PIPING CAP	PIPING CAP
—POC—	POINT OF CONNECTION TO EXISTING	POC
—ANGLE VALVE—	ANGLE VALVE	ANGLE VALVE
—BALANCE VALVE—	BALANCE VALVE	BALANCE VALVE
—BALL VALVE—	BALL VALVE	BALL VALVE
—CHECK VALVE—	CHECK VALVE	CHECK VALVE

SYMBOL	ITEM	ABBR.
—C—	CONCENTRIC REDUCER	C
—TWC—	TWO-WAY CONTROL VALVE	TWC
—P—	PLUG VALVE	P
—PR—	PRESSURE REDUCING VALVE	PR
—SOV—	SHUT-OFF VALVE IN BOX	SOV
—SOV—	SHUT-OFF VALVE	SOV
—TM—	THERMOSTATIC MIXING VALVE	TM
—PRV—	TEMPERATURE / PRESSURE RELIEF VALVE	PRV
—UNION—	UNION	UNION
—WCO—	WALL CLEANOUT	WCO
—Y—	"Y" TYPE STRAINER	Y
—P—	PRESSURE GAUGE	P
—T—	TEMPERATURE GAUGE	T
—KEYNOTE—	KEYNOTE	KEYNOTE
—2 P207—	DETAIL REFERENCE EXAMPLE: DETAIL 2, SHEET P207	2 P207
—3 P400—	SECTION REFERENCE EXAMPLE: SECTION 3, SHEET P400	3 P400

GENERAL NOTES

- COORDINATION OF WORK: LAYOUT OF MATERIALS, EQUIPMENT AND SYSTEMS IS GENERALLY DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY.
- THE ACTUAL LOCATION OF ALL MATERIALS, PIPING, DUCTWORK, FIXTURES, EQUIPMENT, SUPPORTS, ETC. SHALL BE CAREFULLY PLANNED, PRIOR TO INSTALLATION OF ANY WORK TO AVOID ALL INTERFERENCES WITH EACH OTHER, OR WITH STRUCTURAL, ELECTRICAL, ARCHITECTURAL OR OTHER ELEMENTS.
- VERIFY THE PROPER VOLTAGE AND PHASE OF ALL EQUIPMENT WITH THE ELECTRICAL PLANS. ALL CONFLICTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER PRIOR TO THE INSTALLATION OF ANY WORK OR THE ORDERING OF ANY EQUIPMENT.
- ALL DRAWINGS AND SPECIFICATIONS ARE TO BE CONSIDERED PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS PRIOR TO ANY CONSTRUCTION, INCLUDING ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENT SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR THE OWNER REPRESENTATIVE.
- MINIMUM SLOPE FOR SEWER IS 1/4" PER FT, UNLESS OTHERWISE NOTED.
- ALL ROOF PENETRATIONS SHALL BE COMPATIBLE WITH ROOF SYSTEM WITH AS FEW PENETRATIONS AS POSSIBLE.
- MINIMUM DOMESTIC WATER PIPE SIZE TO BE 3/4" UNLESS OTHERWISE NOTED. USE A REDUCING ELL AT FIXTURE, IF NECESSARY.
- ALL PLUMBING FIXTURES, VALVES, FAUCETS, FIXTURE STOPS, ETC. WHICH PROVIDE WATER FOR HUMAN CONSUMPTION MUST MEET THE "LEAD FREE" REQUIREMENT FOR THE STATE OF CALIFORNIA.
- MAXIMUM ALLOWABLE DISTANCE FOR HOT WATER LATERALS TO FIXTURES OFF OF THE CIRCULATING MAIN SHALL BE 10'-0" FOR HAND WASH SINKS AND LAVS, AND 15'-0" FOR OTHER SINKS.
- LEAN CONCRETE SHALL BE USED AS BACK FILL WHERE UTILITY TRENCHES EXTEND FROM THE EXTERIOR TO THE INTERIOR LIMITS OF THE BUILDING. LEAN CONCRETE SHALL EXTEND A MINIMUM DISTANCE OF TWO (2) FEET LATERALLY ON EACH SIDE OF THE EXTERIOR BUILDING LINE AND A MINIMUM OF SIX (6) INCHES ABOVE FOOTING PENETRATION.

DSA File No.: DSA File

DSA Application No.: DSA App

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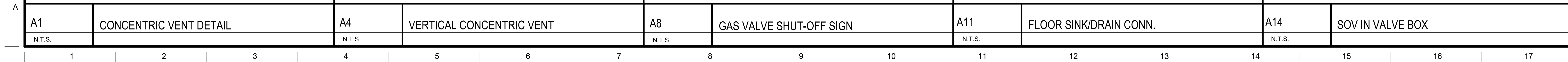
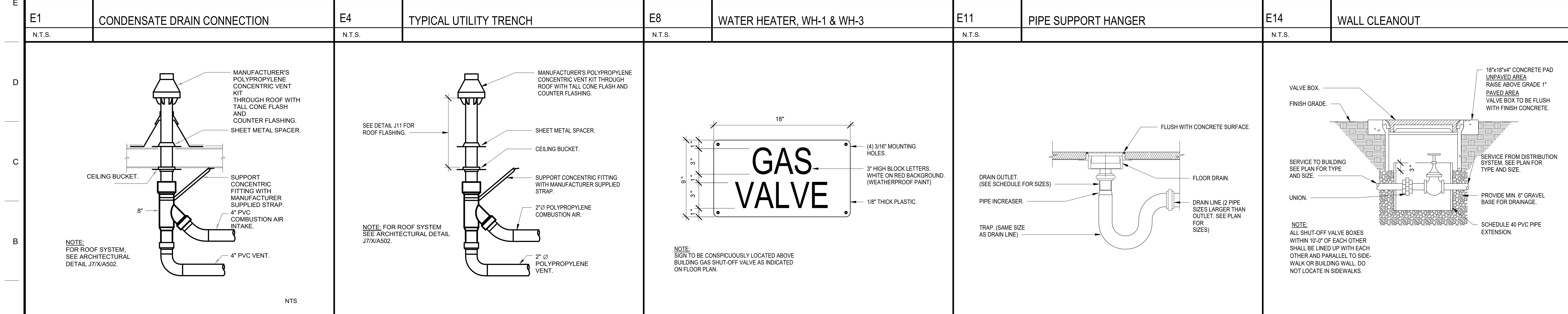
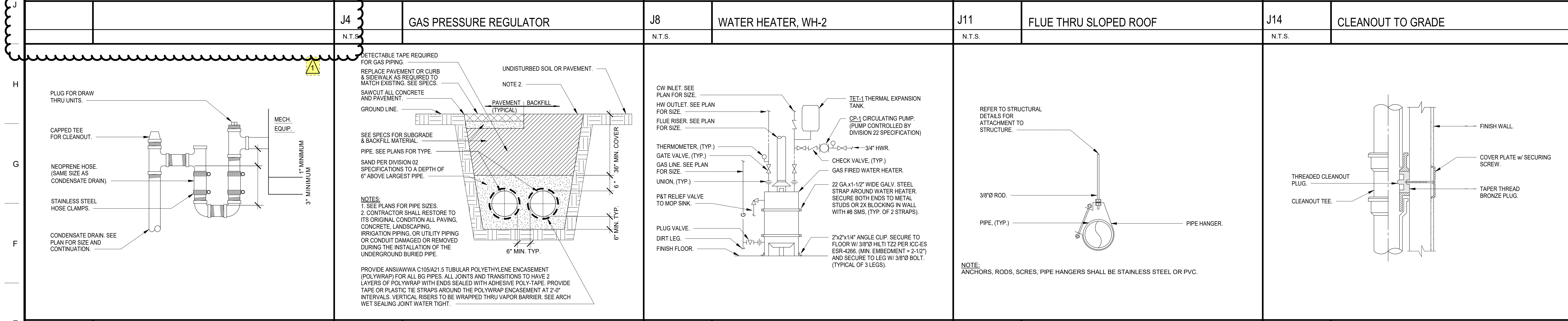
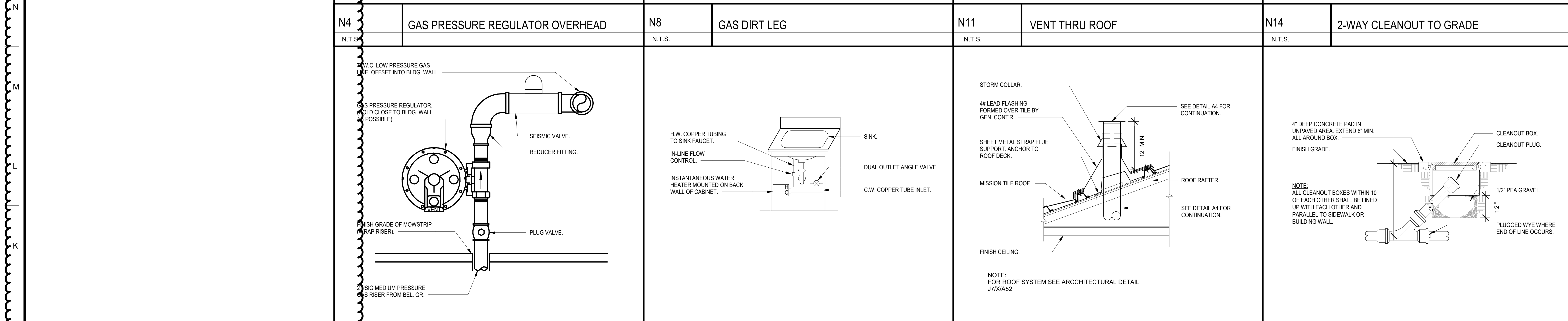
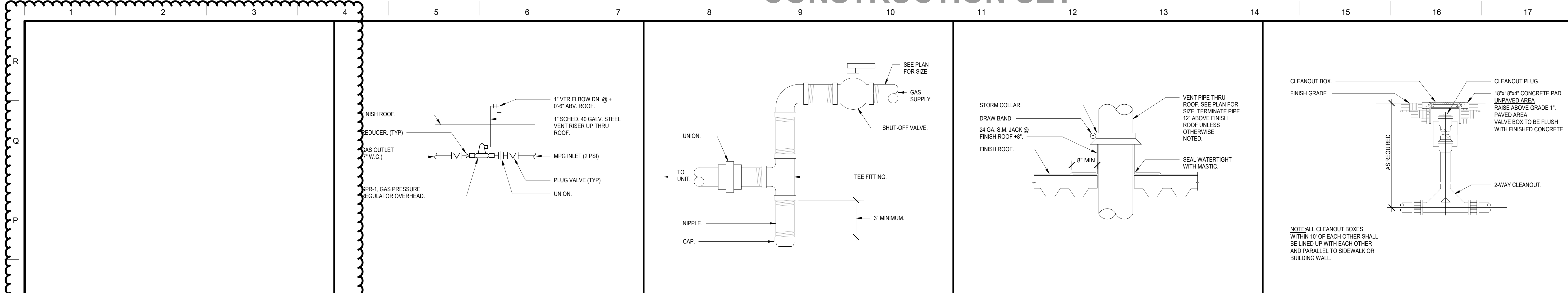
General Notes

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CONSTRUCTION SET

APPROVED BY THE STATE ARCHITECT
APP: 02-190251, INC.
REVIEWED FOR
SS ID # 115 ID # ACS ID
DATE: 08/28/2023



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Tulare Joint Union High School District
Tulare, CA 93274

TYPICAL INFORMATION PLUMBING DETAILS

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No.	Revision/Submission	Date
1	REVISION_01	05/31/2023
Revision		
Designed By: JCS		Copyright 2022 Darden Architects
Scale: As indicated	Drawn By: AV	X/P102
Project Number: 2180	Checked By: HB	
Date: 07/13/2022	Reviewed By: JCS	

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CONSTRUCTION SET

APPROVED
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APP: 02-190251, INC.
REGISTERED FOR
PLUMBING
SS ID: PLS/SD/ACS/BJ
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DSA File

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- ### KEYNOTES #
- 1 4" S, CAP FOR FUTURE INVERT 2'-8" BELOW FF.
 - 2 CONDENSATE DRAIN DN IN WALL. TERMINATE IN FLOOR SINK.
 - 3 3/4" CD CONNECTION TO INDOOR UNIT W/ TRAP PER DETAIL E1 ON SHEET X/P102.
 - 4 3/4" G ABOVE GRADE, CAP FOR FUTURE CONNECTION TO STAFF / SNACK BAR.
 - 5 2" CW TO BUILDING P2. SEE CIVIL PLANS FOR CONTINUATION.
 - 6 4" S FROM BUILDING P2. SEE CIVIL PLANS FOR CONTINUATION.
 - 7 3" CW TO BUILDING P4. SEE CIVIL PLANS FOR CONTINUATION.
 - 8 6" S FROM POOL EQUIPMENT BUILDING P4. SEE CIVIL PLANS FOR CONTINUATION.
 - 9 2-1/2" MPG TO BUILDING P4. SEE SHEET SD/P102 FOR CONTINUATION.
 - 10 3/4" CW AND 2" GAS DROP DN TO POOL BOILER.
 - 11 BP-1 BACKFLOW PREVENTER OVERHEAD. PROVIDE 1" SCHEDULE 40 GALVANIZED STEEL DRAIN PIPE FROM BP-1 SLOPED AT 1/4" TO NEAREST FLOOR SINK.
 - 12 2" VENT PIPE FROM GAS PRESSURE REGULATOR ROUTED UP THRU ROOF PER DETAIL N4 ON X/P102.
 - 13 2" CW POC FROM BASE BID 2" CW.
 - 14 4" S POC FROM BASE BID 4" S.
 - 15 3/4" G DN TO WATER HEATER W/ GAS DIRT LEG. REFER TO DETAIL N8 ON SHEET X/P102.
 - 16 WATER HEATER MOUNTED TO WALL AND FLOOR PER DETAIL E8 ON SHEET X/P102.
 - 17 6" S w/ TRAP, 3" V & 1/2" TRAP PRIMER CONNECTION FOR FLOOR SINK.
 - 18 1-1/4" CW DN FOR EMERGENCY SHOWER AND EYE WASH STATION (FIXTURE BY OTHERS).
 - 19 3/4" CW DN TO HOSE BIBB.
 - 20 2" S w/ TRAP, 1-1/2" V & 1/2" TRAP PRIMER CONNECTION FOR FLOOR DRAIN.
 - 21 3" S w/ TRAP, 2" V & 1/2" TRAP PRIMER CONNECTION FOR FLOOR DRAIN/SINK.
 - 22 GPR MOUNTED ABOVE GRADE WITH VENT ROUTED ABOVE ROOF LINE PER DETAIL N4 ON SHEET X/P102.
 - 23 GAS METER LOCATION WITHIN ENCLOSURE. GAS METER ASSEMBLY BY PG&E WITH 2 PSI OUTLET PRESSURE. SITE GAS PIPE SIZING DOWNSTREAM OF METER BASED ON 2019 CPC TABLE 1215.2(4) USING 400 FT ROW AND MAXIMUM LOAD OF 5,800 MBH. CONTRACTOR SHALL COORDINATE WITH PG&E.
 - 24 CONNECT 2-1/2" MPG (2 PSIG) TO CUSTOMER SIDE OF GAS METER ASSEMBLY WITH PLUG VALVE.
 - 25 3" MPG STUBBED INTO GAS METER ENCLOSURE WITH PLUG VALVE.
 - 26 3" MPG FROM SITE. REFER TO SHEET SD/P102 FOR CONTINUATION.
 - 27 3/4" CW DN TO BELOW FLOOR, TO BE ROUTED TO FIXTURES IN GAS METER ENCLOSURE.
 - 28 1/2" CW UP TO TRAP PRIMER.
 - 29 3/4" CW UP TO HOSE BIBB.
 - 30 3/4" MPG TO BUILDING P3. SEE SHEET SD/P102 FOR CONTINUATION.
 - 31 2" CW CAP FOR FUTURE.

GENERAL NOTES

1. ALL SUPPORTS WITHIN BUILDING P4 SHALL BE STAINLESS STEEL OR FRP OF EQUIVALENT STRENGTH. REFER TO MASON WEST OPM 0043-13 FOR STRENGTH AND SPACING REQUIREMENTS.

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Project

BUILDING P2 & P4
PLUMBING PLANS

Drawing

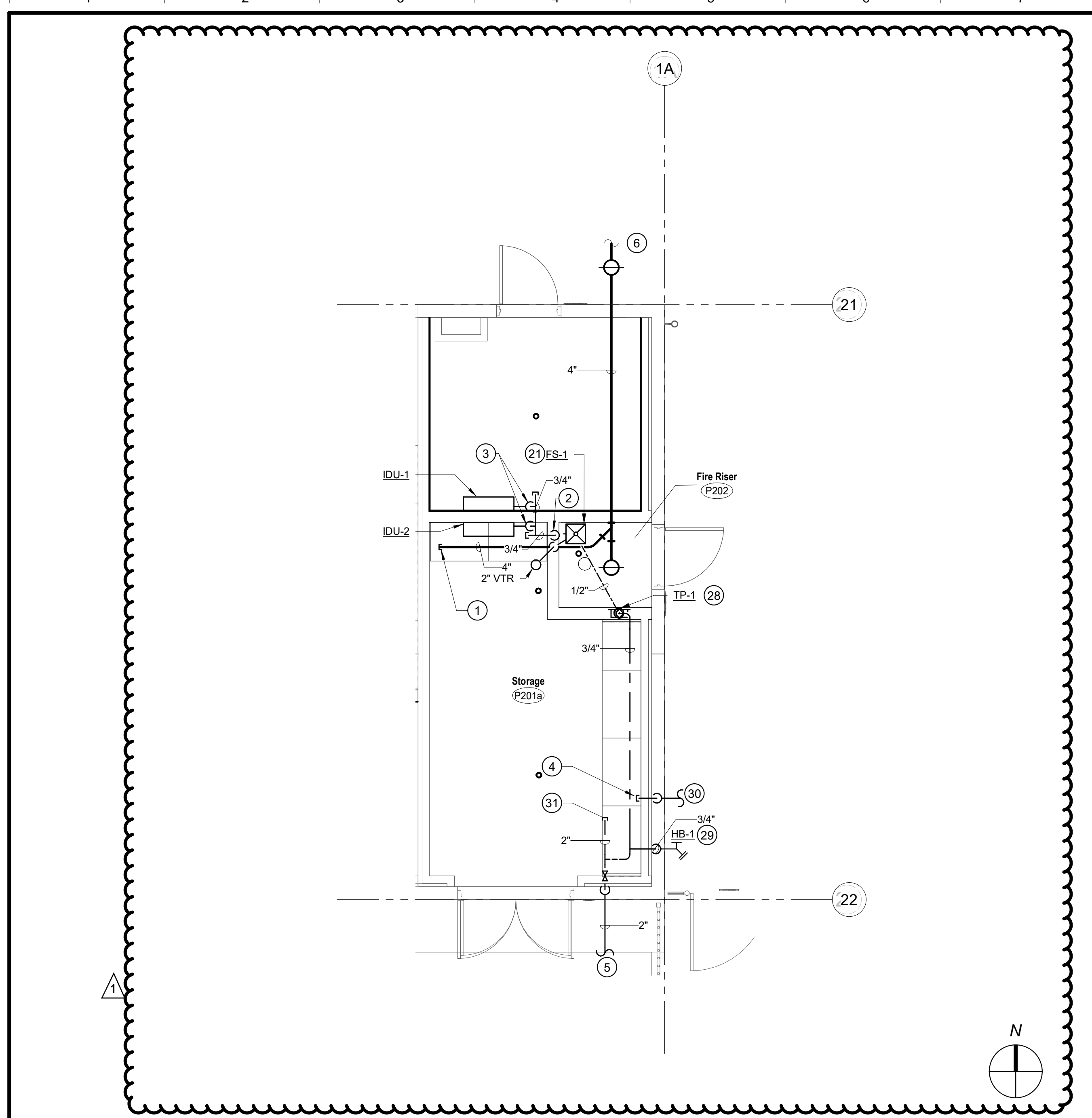
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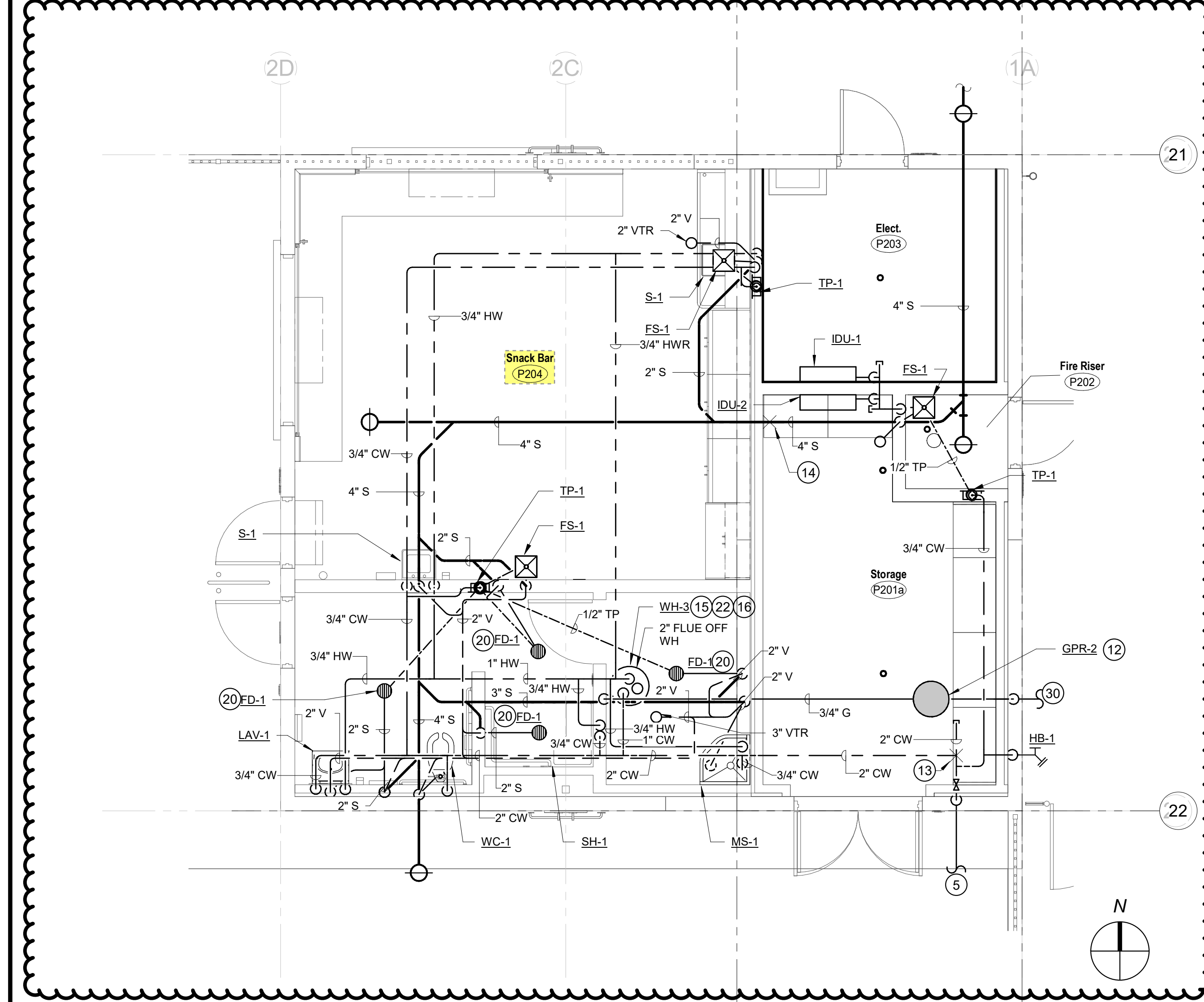


Architect

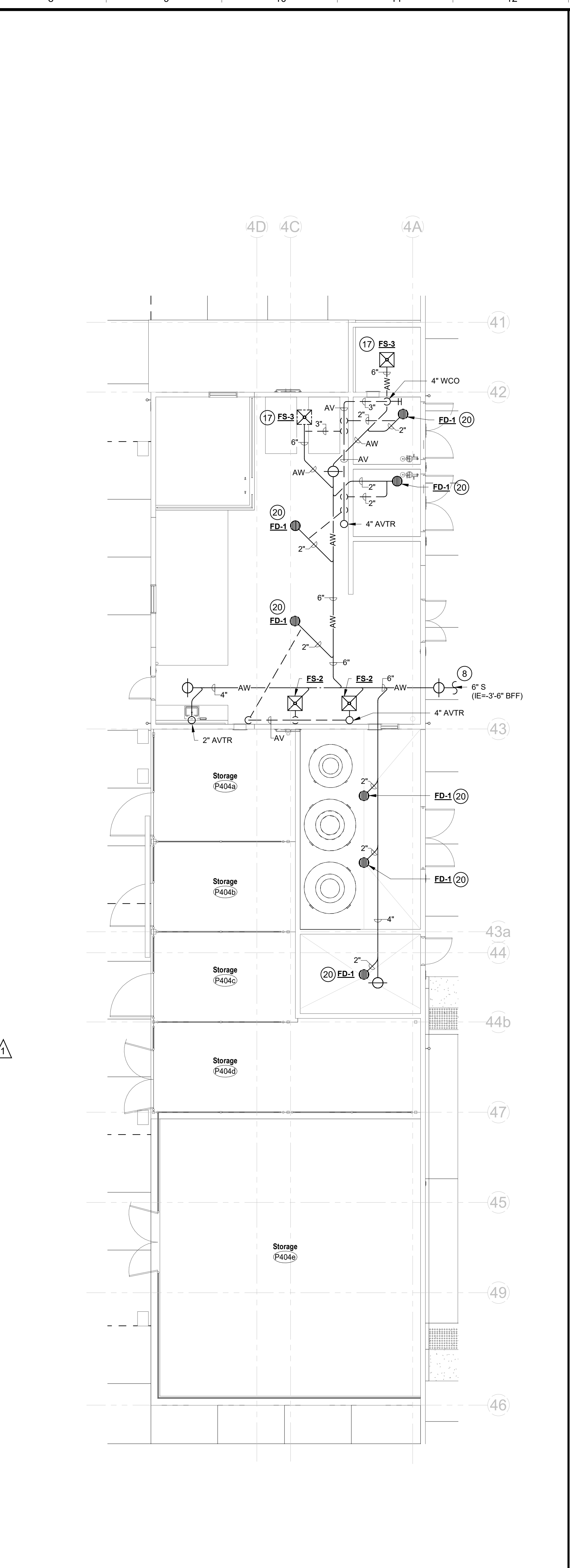
No.	Revision/Submission	Date
1	REVISION_01	05/31/2023
Revision		
Designed By: JCS		Copyright 2022 Darden Architects
Scale: As Indicated		Drawn By: AV
Project Number: 2180		Checked By: HB
Date: 07/13/2022		Reviewed By: JCS



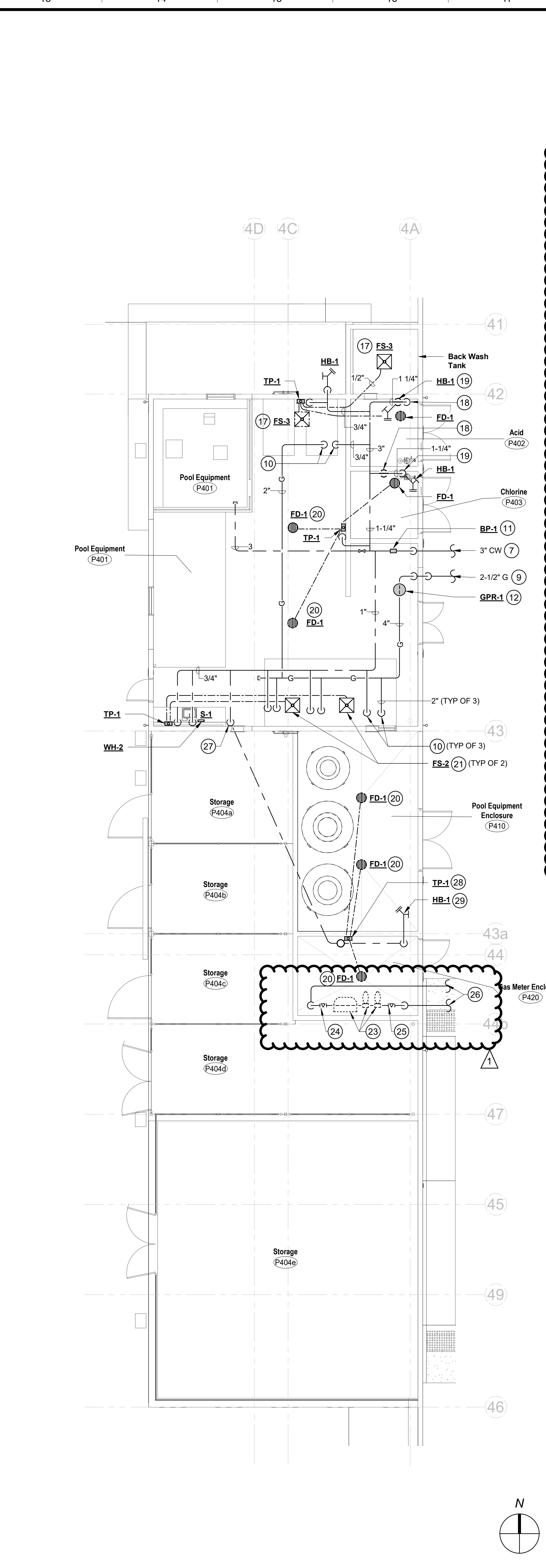
H1 PLUMBING PLAN - BASE BID - BUILDING 2
1/4" = 1'-0"



A1 PLUMBING PLAN - ALT BID BUILDING P2
1/4" = 1'-0"



A8 PLUMBING PLAN - BUILDING P4 - S & V
1/8" = 1'-0"



A13 PLUMBING PLAN - BUILDING P4 - CW & G
1/8" = 1'-0"

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CONSTRUCTION SET

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APP: D2-190251, INC.
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P.L.S.# ACS/EI
DATE: 08/28/2023

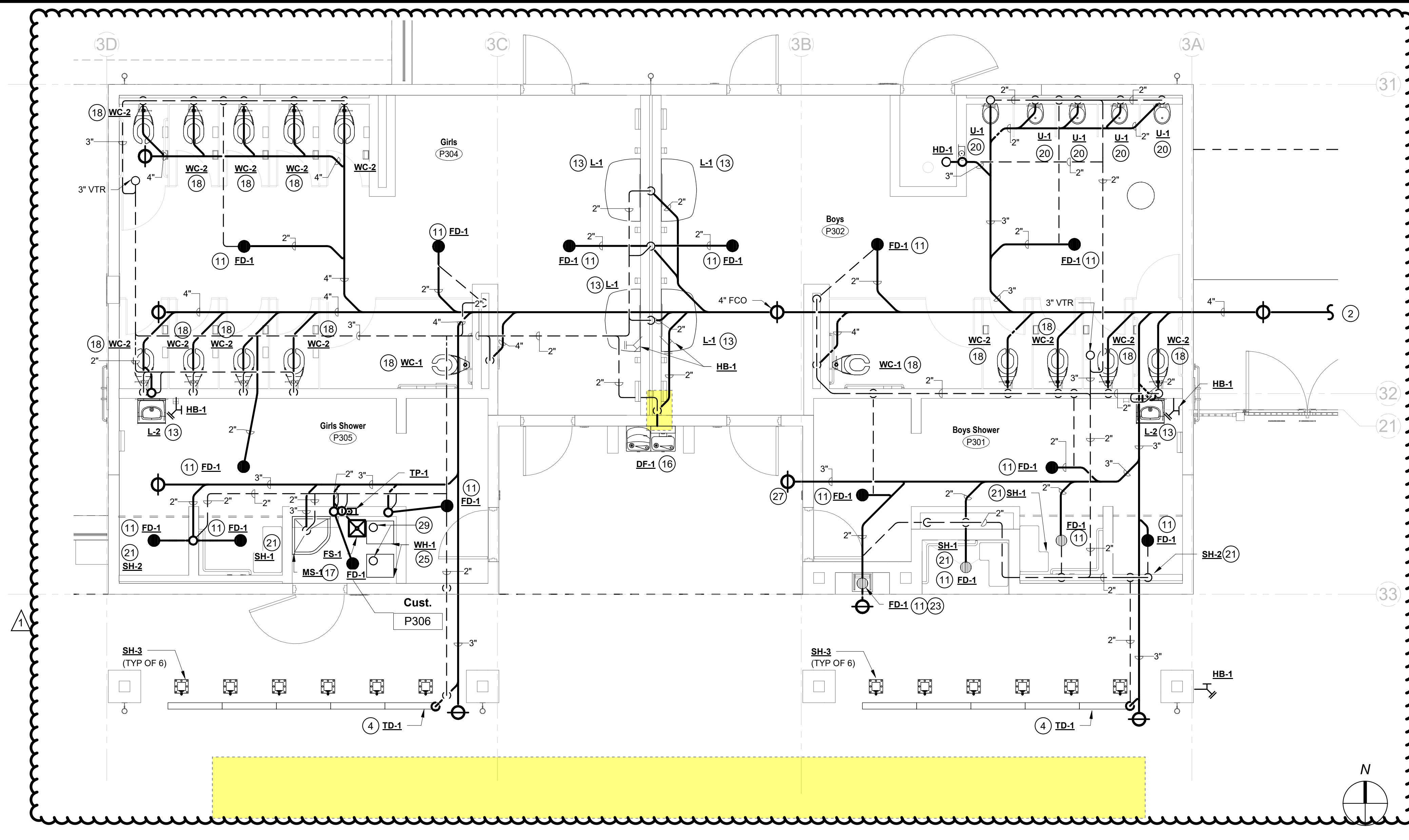
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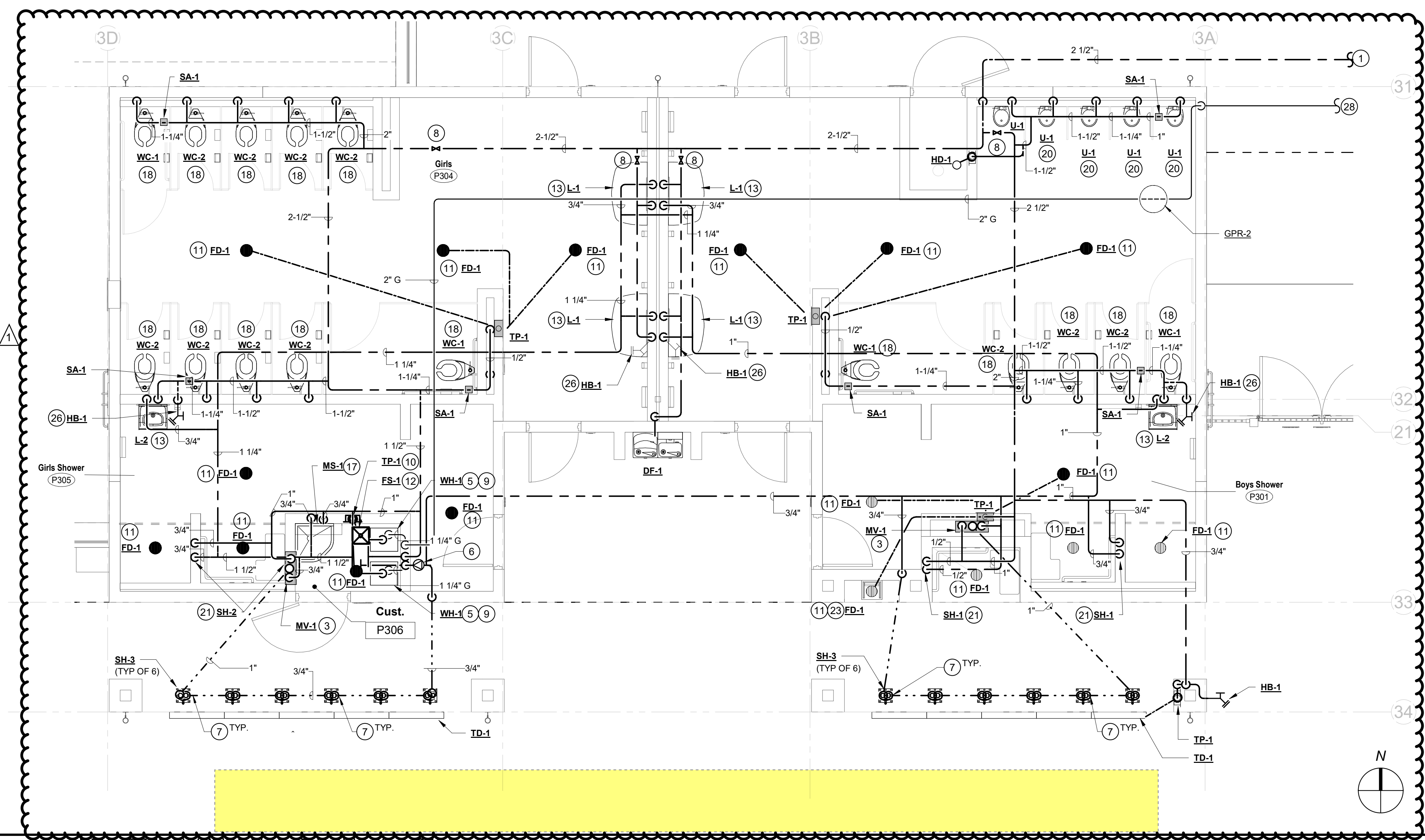
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KEYNOTES

- 1 2-1/2" CW FOR RESTROOM BUILDING. SEE CIVIL PLANS FOR CONTINUATION.
- 2 4" S FOR RESTROOM BUILDING. SEE CIVIL PLANS FOR CONTINUATION.
- 3 MIXING VALVE ON WALL. CONNECT 3/4" CW & 3/4" HW TO INLET CONNECTIONS AND PROVIDE 1" TEMPERED WATER (TW) CONNECTION AT OUTLET.
- 4 3" S FOR TRENCH DRAINS WITH CW FROM TRAP PRIMER.
- 5 VERTICAL WATER HEATER TO BE FLOOR MOUNTED PER DETAIL E8/X/P102 WITH 1/2" HILTI TZ2 PER ICC-ES ESR-4266 (TYP OF 4).
- 6 HOT WATER RETURN CIRCULATING PUMP CP-1 MOUNTED OVER WATER HEATERS, SHOWN OFF SET FOR CLARITY.
- 7 NO PIPE JOINTS BELOW GRADE.
- 8 CW ISOLATION VALVE. FIELD VERIFY AND COORDINATE LOCATION WITH NEW CEILING ACCESS PANEL.
- 9 4" CONCENTRIC VENT ASSEMBLY. REFER TO DETAILS A4 AND J11 ON SHEET X/P102.
- 10 1/2" CW DN TO TRAP PRIMER IN WALL WITH ACCESS PANEL.
- 11 2" S w/ TRAP. 1-1/2" V & 1/2" TRAP PRIMER CONNECTION FOR FLOOR DRAIN/FLOOR SINK. FIELD COORDINATED FS TO BE EXPOSED AND ACCESSIBLE FOR HEALTH DEPT INSPECTION.
- 12 3" S w/ TRAP. 1-1/2" V & 1/2" TRAP PRIMER CONNECTION FOR FLOOR SINK. FIELD COORDINATED FS TO BE EXPOSED AND ACCESSIBLE FOR HEALTH DEPT INSPECTION.
- 13 2" S, 1-1/2" V, 3/4" CW/HW, DN TO HANDSINK/LAV. NOT USED.
- 14 NOT USED.
- 15 NOT USED.
- 16 2" S, 1-1/2" V & 3/4" CW DN FOR DRINKING FOUNTAIN.
- 17 3" S w/ TRAP, 1-1/2" V, 3/4" CW/HW DN FOR MOP SINK.
- 18 4" S, 2" V & 1" CW DN TO WATER CLOSET.
- 19 3/4" CW/HW TO KITCHEN SINK FAUCET.
- 20 2" S, 1-1/2" V, 3/4" CW FOR URINALS.
- 21 3/4" CW/HW DN FOR SHOWERS. NOT USED.
- 22 NOT USED.
- 23 FLOOR DRAIN FOR SPIN DRYER DISCHARGE. NOT USED.
- 24 NOT USED.
- 25 WATER HEATER MOUNTED TO WALL AND FLOOR PER DETAIL E8 ON SHEET X/P102.
- 26 3/4" CW DOWN TO HOSE BIBB. TYP.
- 27 1/2" CW FOR REFER TO DETAIL A4 ON SHEET X/P102.
- 28 2" MPG TO BUILDING P3. SEE SHEET SD/P102 FOR CONTINUATION.
- 29 4" AIR INTAKE & 4" VENT, 8" CONCENTRIC RISER THRU ROOF PER DETAIL A1/X/P102, SEE SHEET P/301 FOR CONTINUATION.



J7
1/4" = 1'-0"
ENLARGED PLUMBING PLAN - BUILDING P3, S & V



A7
1/4" = 1'-0"
ENLARGED PLUMBING PLAN - BUILDING P3, G, CW, & HW

General Notes



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Tulare, CA 93274
Project

BUILDING P2 & P3
ENLARGED PLUMBING PLANS
Drawing



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No.	Revision/Submission	Date
1	REVISION_01	05/31/2023
Revision		
Designed By: JCS		Copyright 2022 Darden Architects
Scale: As indicated	Drawn By: AV	P/P102
Project Number: 2180	Checked By: HB	
Date: 07/13/2022	Reviewed By: JCS	

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CONSTRUCTION SET

APPROVED
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APP: 02-190251, INC.
REVIEWED FOR
SS ID: PLS ID: ACS ID
DATE: 08/28/2023

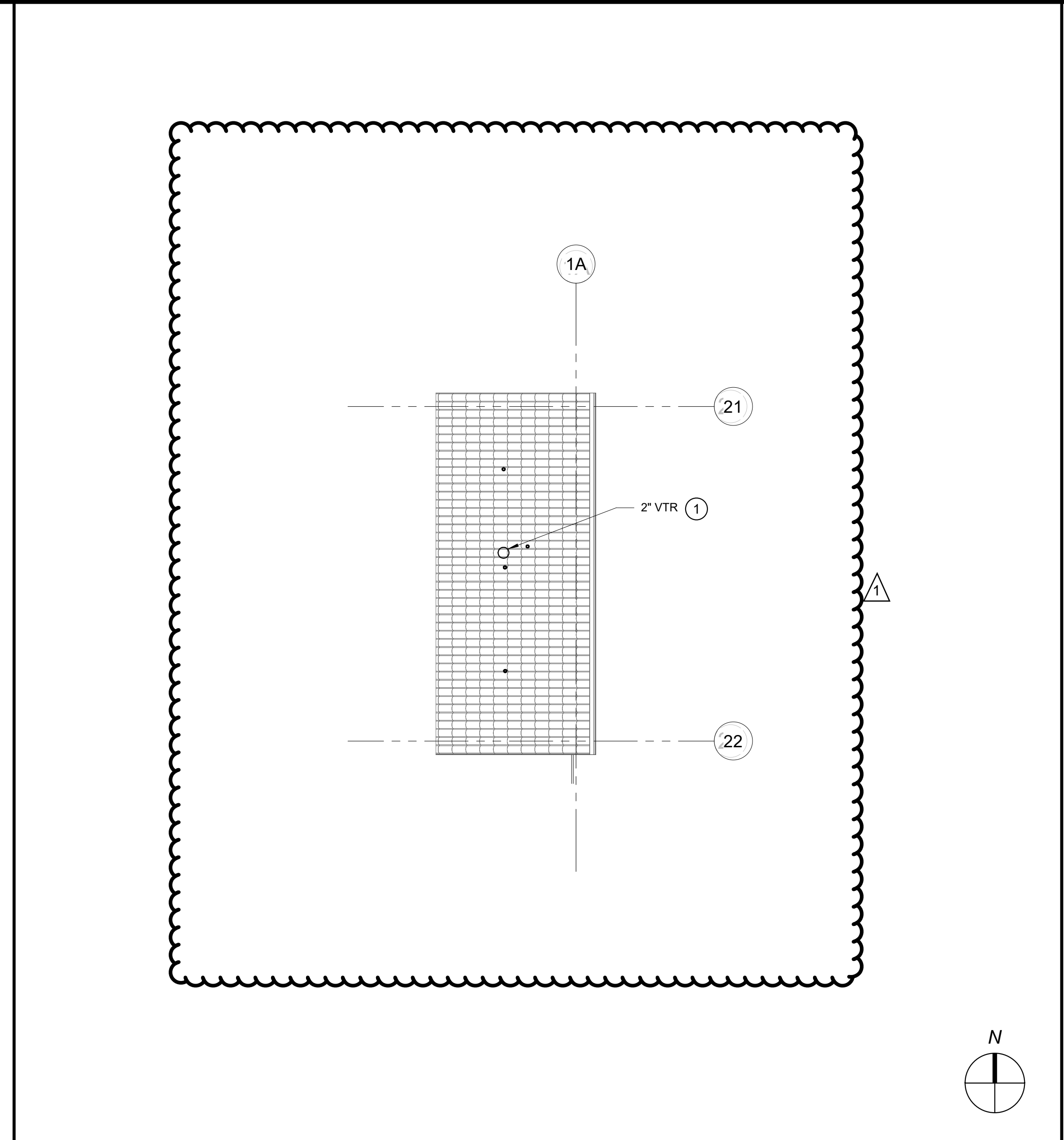
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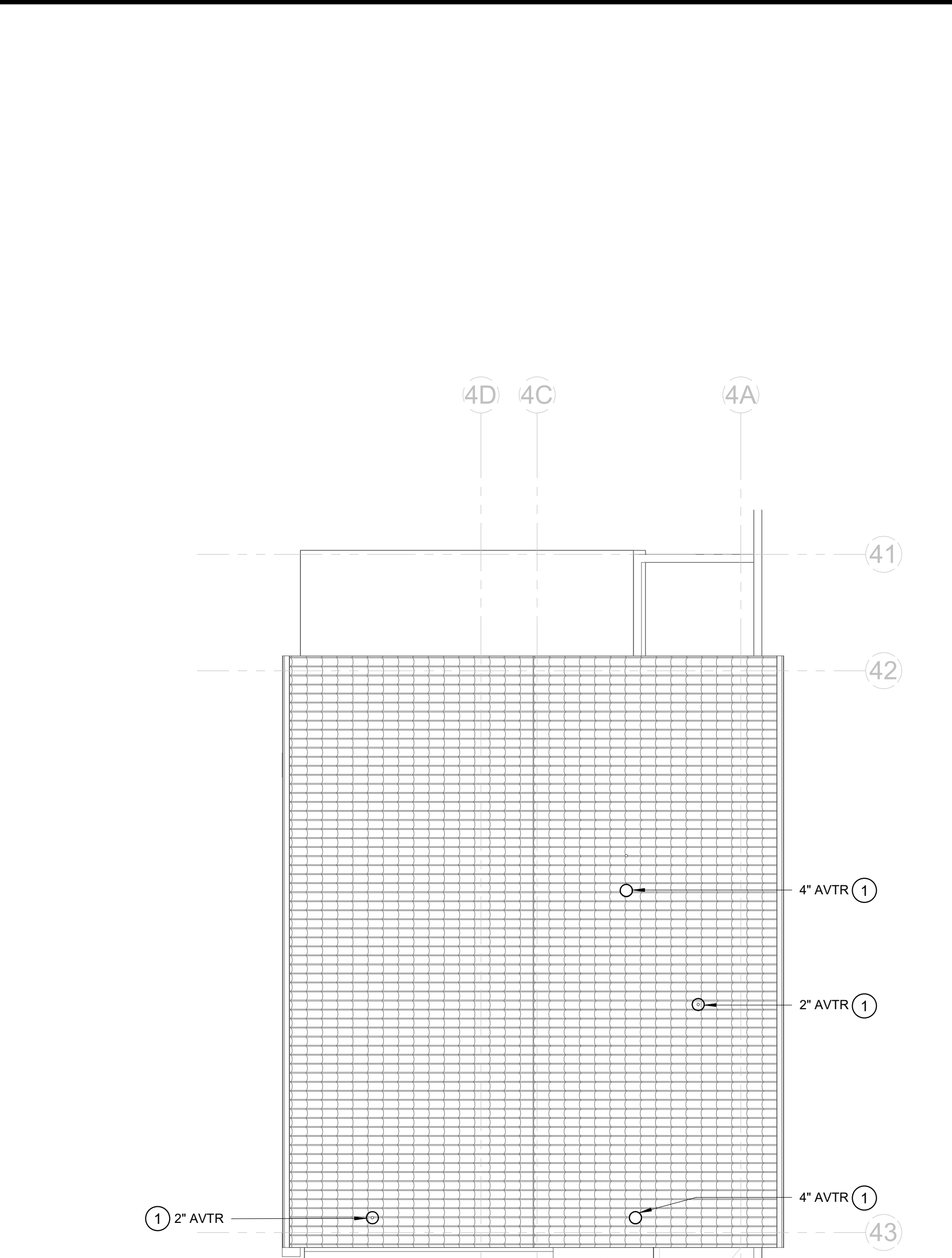
Agency Approval

KEYNOTES

- 1 VENT THRU ROOF. SEE ARCHITECTURAL DETAIL J7/X/A502 & DRAWINGS FOR ROOF PENETRATION AND FLASHING DETAILS.
- 2 VENT THRU ROOF. SEE ARCHITECTURAL DETAIL J7/X/A502 & DRAWINGS FOR ROOF PENETRATION AND FLASHING DETAILS.
- 3 8" WATER HEATER CONCENTRIC AIR INTAKE AND VENT PER DETAIL A1/X/P102.



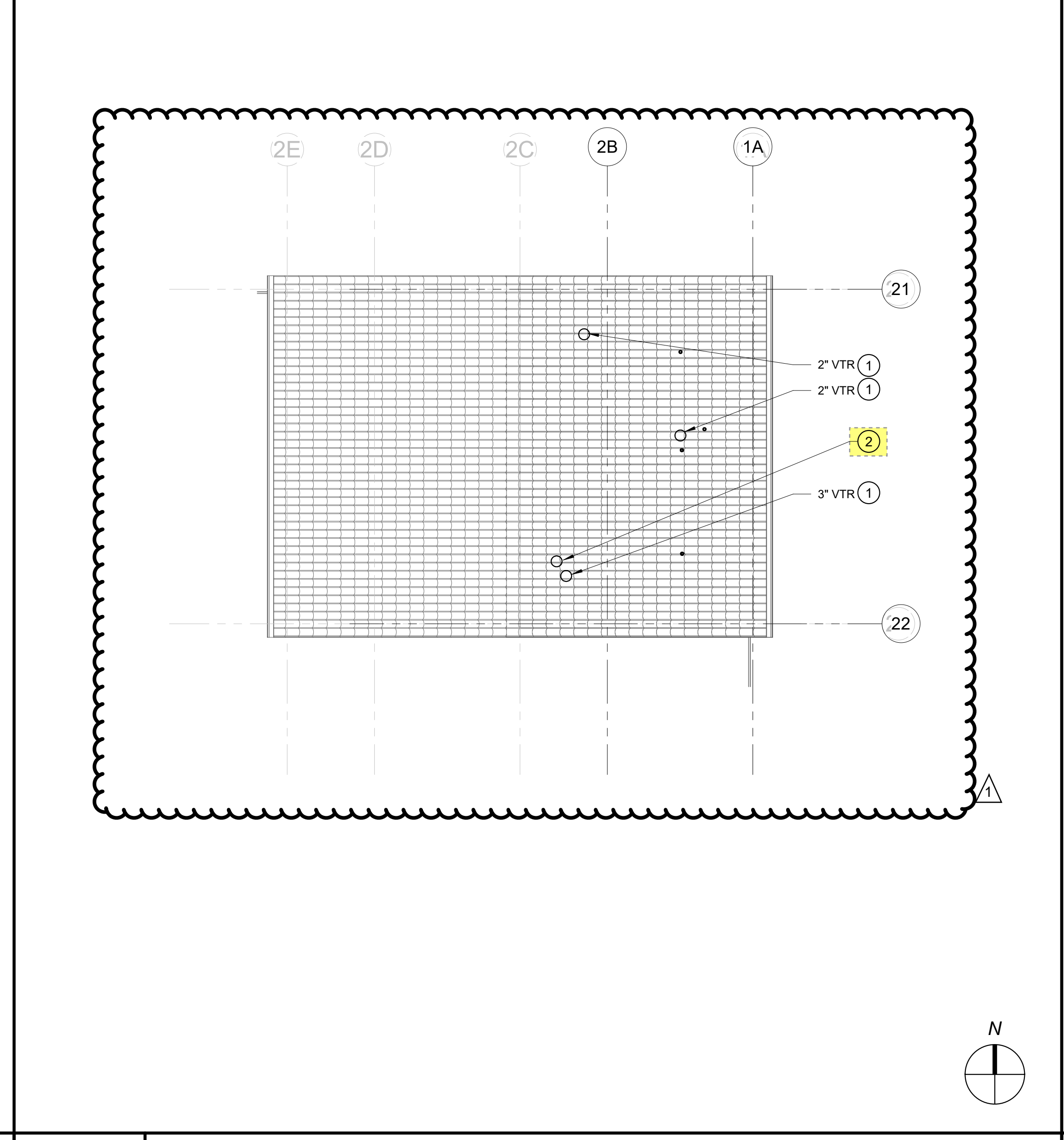
J7
1/8" = 1'-0"
PLUMBING ROOF PLAN - BASE BID - BUILDING P2



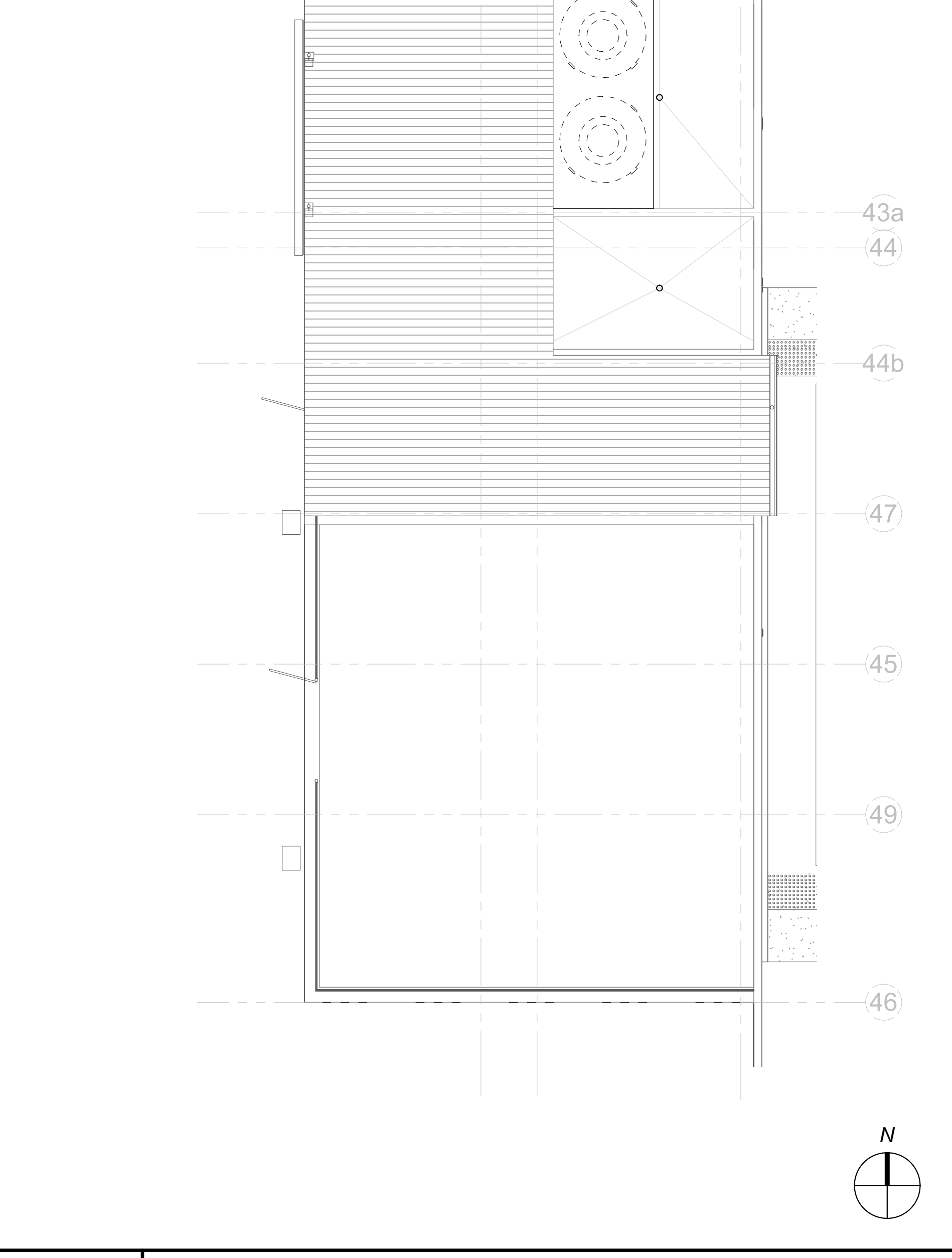
A13
1/8" = 1'-0"
PLUMBING ROOF PLAN - BUILDING P4



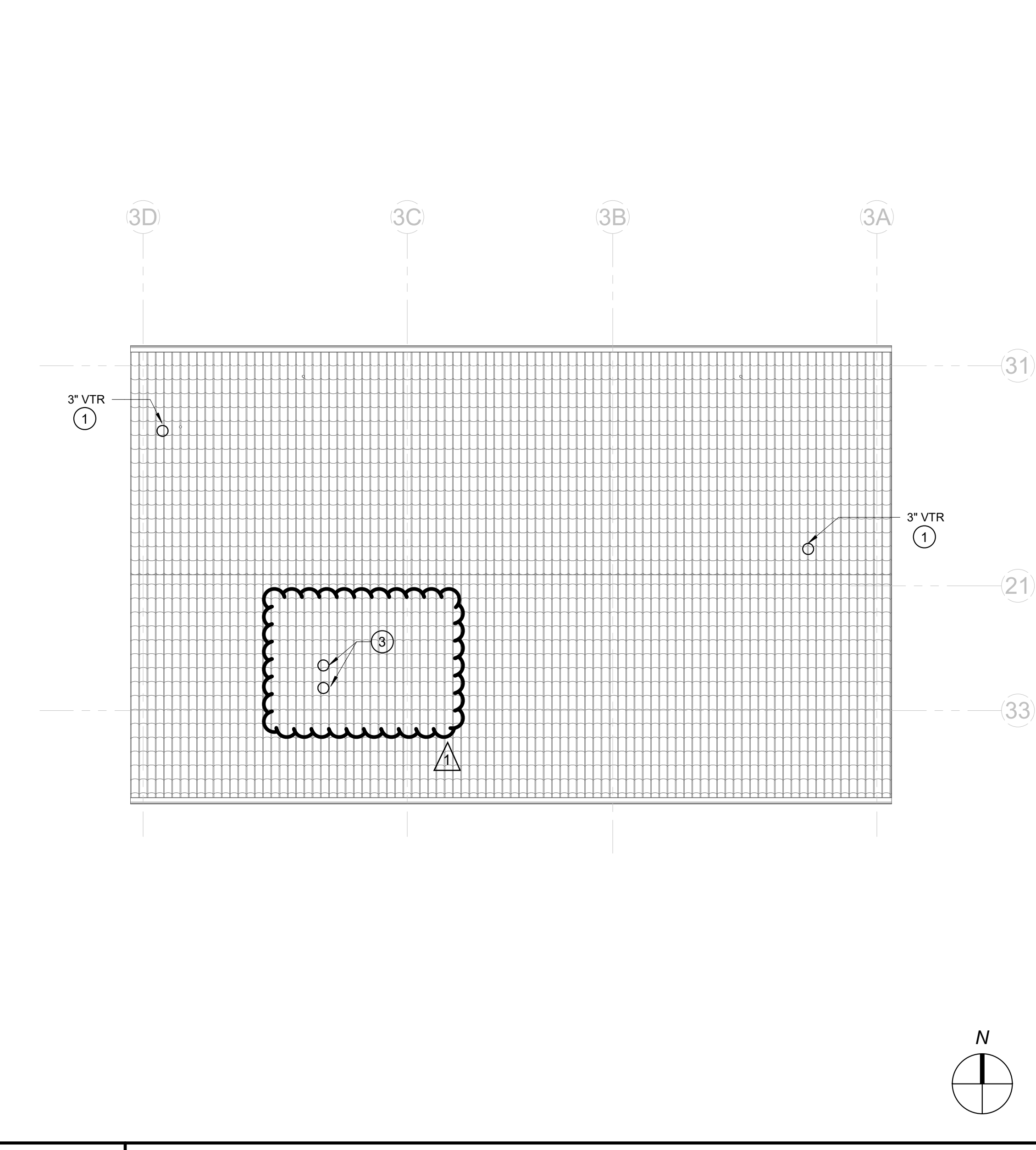
A1
1/8" = 1'-0"
PLUMBING ROOF PLAN - BUILDING P3



A7
1/8" = 1'-0"
PLUMBING ROOF PLAN - ALT BID BUILDING P2



A13
1/8" = 1'-0"
PLUMBING ROOF PLAN - BUILDING P4



A1
1/8" = 1'-0"
PLUMBING ROOF PLAN - BUILDING P3

General Notes

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No.	Revision/Submission	Date
1	REVISION_01	05/31/2023

Revision

Designed By: JCS Copyright 2022 Darden Architects

Scale: As Indicated Drawn By: AV

Project Number: 2180 Checked By: HB

Date: 07/13/2022 Reviewed By: JCS

P/P301

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CONSTRUCTION SET

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 DIV. OF THE STATE ARCHITECT
 APP: 02-120251, INC.
 REVIEWED FOR
 SS ID: FLS ID: ACS ID
 DATE: 08/28/2023

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 DSA File

DSA Application No.:
 02-120251

Agency Approval

KEYNOTES

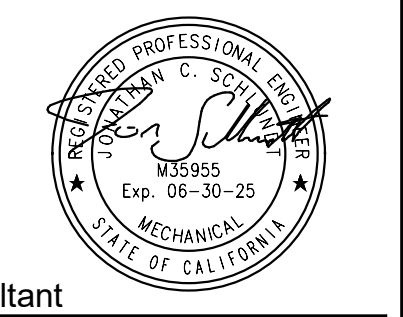
- 1 OUTDOOR UNIT ON CONCRETE HOUSEKEEPING PAD PER DETAIL J11 ON X/M102.
- 2 PRE-INSULATED REFRIGERANT PIPES ROUTED BELOW GRADE WITHIN 4" Ø PVC SLEEVE. (TWO PIPES SHOWN SINGLE LINE FOR CLARITY)

GENERAL NOTES

- A. REFRIGERANT PIPING SHOWN AS SINGLE LINE CLARITY. SINGLE LINE REPRESENTS RS & RL PIPING.
- B. SEE DETAIL A7 ON X/M102 FOR TYPICAL UTILITY TRENCH DETAIL. LEAN CONCRETE SHALL BE USED AS BACKFILL WHERE UTILITY TRENCHES EXTEND FROM THE EXTERIOR TO THE INTERIOR LIMITS OF THE BUILDING. LEAN CONCRETE SHALL EXTEND A MINIMUM DISTANCE OF TWO (2) FEET Laterally ON EACH SIDE OF THE EXTERIOR BUILDING LINE AND A MINIMUM OF SIX (6) INCHES ABOVE FOOTING PENETRATION.
- C.

General Notes

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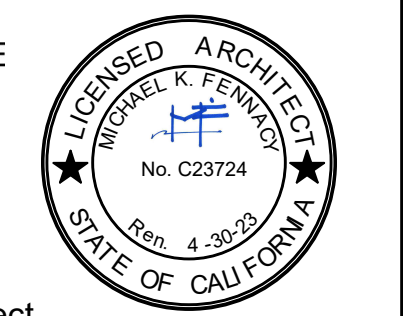
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 Tulare, CA 93274

Project

SITE DEVELOPMENT
 PARTIAL MECHANICAL SITE PLAN

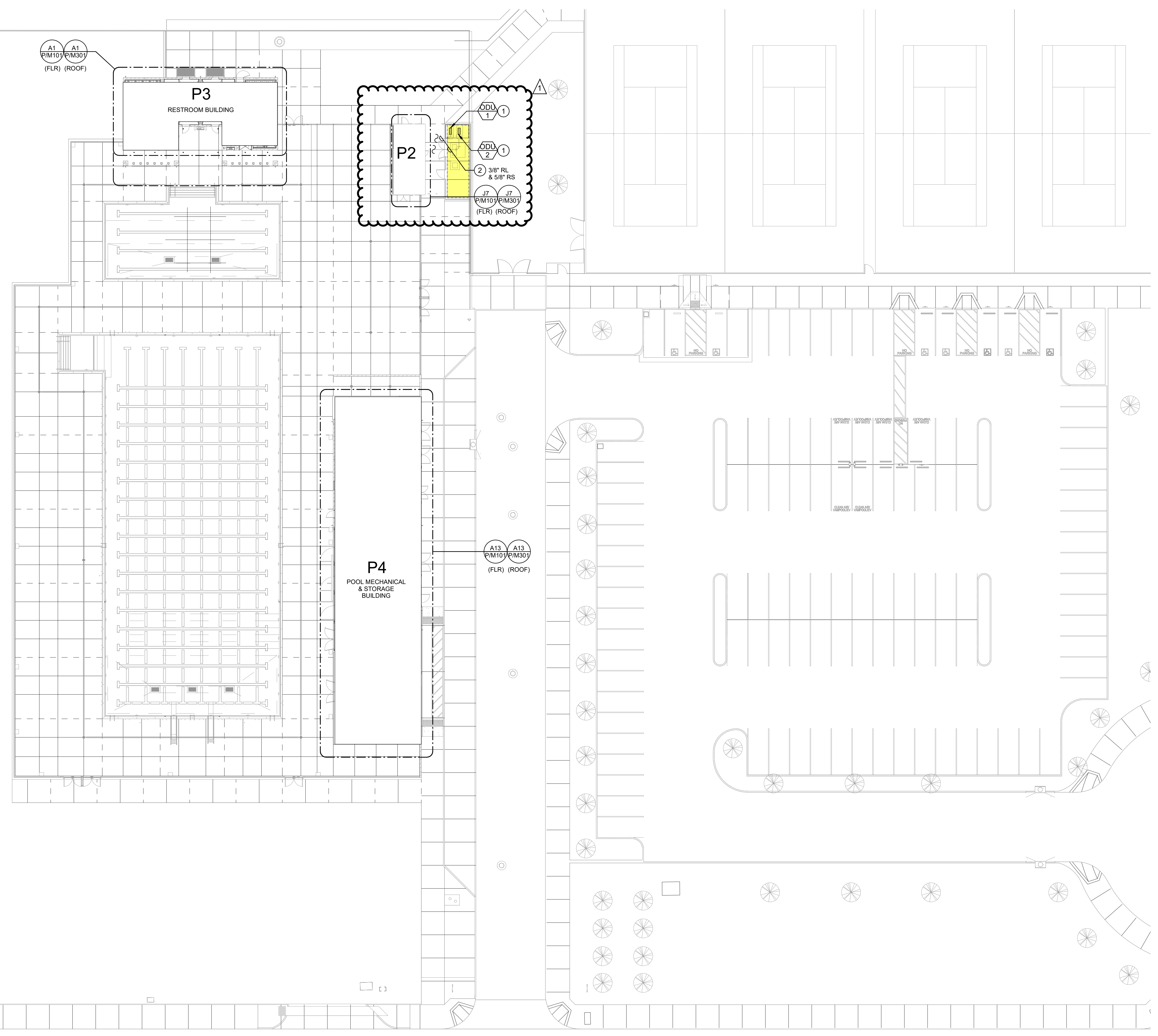
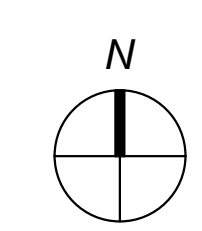
Drawing

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Architect

No.	Revision/Submission	Date
1	REVISION_01	05/31/2023
Revision		
Designed By: JCS		Copyright 2022 Darden Architects
Scale: As indicated	Drawn By: HB	SD/M102
Project Number: 2180	Checked By: JCS	
Date: 07/13/2022	Reviewed By: JCS	



8/15/2023 5:39:36 PM

A1 PARTIAL MECHANICAL SITE PLAN
 1" = 20' 0"

CONSTRUCTION SET

APPROVED FOR THE PROJECT MANAGER
APP: 02-120251, INC.
REVIEWED FOR
FILED IN ACSB
DATE: 08/28/2023

MECHANICAL SCHEDULES

EXHAUST FAN SCHEDULE					
DESIGNATION	EF-1	EF-2	EF-3	EF-4	EF-5
CFM	5,020	1,285	175	175	3,000
EXT. SP (IN, WC)	0.61	0.50	0.52	0.52	0.50
HP / BHP	1-1/2 / 1.31	1/4 / 0.25	1/12 / 0.05	1/12 / 0.05	1 / 0.89
VOLTS / PHASE	115 / 1	115 / 1	115 / 1	115 / 1	115 / 1
RPM	1,750	1024	1,550	1,550	714
TIP SPEED / SONES	- / 19.1	- / 8.8	- / 7.3	- / 7.3	- / 11.2
DRIVE	DIRECT	DIRECT	DIRECT	DIRECT	BELT
MOUNTING	INLINE	ROOFTOP	INLINE	INLINE	INLINE
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK
TYPE	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL
MODEL NUMBER	SQ-16-M2	CUBE-140	SQ-80	SQ-80	BDF-120
CONTROL	NOTE 2	NOTE 3	NOTE 4	NOTE 4	NOTE 4
SERVICE	BUILDING P3, RESTROOMS & SHOWERS	BUILDING P2, RESTROOM	BUILDING P4, ACID ROOM	BUILDING P4, CHLORINE ROOM	BUILDING P4, POOL EQUIPMENT
OPER. WT. (LBS)	112	29	49	49	141
ACCESSORIES	1,2	1,3,8	1,4,5,6,7	1,4,5,6,7	1,4,5,7

- PROVIDE WITH HANDERS AND ACCESS PER THE 2019 CMC.
- INTERLOCK OPERATION WITH EMS SCHEDULE.
- INTERLOCK OPERATION WITH LIGHTSWITCH IN RESTROOM/SHOWERS.
- CONTINUOUS OPERATION.
- STAINLESS STEEL HOUSING AND FAN COMPONENTS.
- MAINTAIN MINIMUM 10'-0" CLEARANCE BETWEEN EXHAUST FANS, EF-3 & EF-4.
- PROVIDE MANUFACTURER'S INDUSTRIAL EPOXY COATING FOR CHEMICAL RESISTANCE AND CORROSION PROTECTION.
- ALTERNATE BID EQUIPMENT.

GRILLE SCHEDULE		
MARK	DUTY	DESCRIPTION
A	SURFACE MOUNTED DIFFUSER (SUPPLY)	TITUS MODEL PMC (TYPE 1) PERFORATED MODULAR CORE STEEL LOUVER DIFFUSER FOR SURFACE MOUNTING, SQUARE NECK, FLAT BLACK INTERIOR, AND NO. 26 WHITE FINISH.
B	SURFACE MOUNTED DIFFUSER (RETURN / EXHAUST)	TITUS MODEL 25RL (TYPE 1) STEEL GRILLE FOR SURFACE MOUNTING, 30° FIXED DEFLECTION, 1/2" BLADE SPACING, AND NO. 26 WHITE FINISH.
C	LINEAR DIFFUSER (SUPPLY)	TITUS MODEL FL-15 LINEAR SLOT DIFFUSER WITH 1-1/2" SLOT SPACING, 1-SLOT CONFIGURATION, BORDER TYPE 11 FOR LAY, IN CEILING, HIGH-THROW PATTERN CONTROLLER, FLAT BLACK INTERIOR AND NO. 26 WHITE FINISH. PROVIDE FBP-15 SUPPLY PLENUM.
D	LINEAR DIFFUSER (BLANK-OFF)	TITUS MODEL FL-15 LINEAR SLOT DIFFUSER WITH 1-1/2" SLOT SPACING, 1-SLOT CONFIGURATION, BORDER TYPE 11 FOR LAY, IN CEILING, FLAT BLACK INTERIOR AND FBP-15 BLANK-OFF PANEL.

FLY FAN SCHEDULE		
DESIGNATION	FF-1	FF-2
CFM	1,379	1,442
FPM (AT NOZZLE)	2,200	2,200
HP	1/2	1/2
VOLTS / PHASE	115 / 1	115 / 1
FLA	5.1	5.1
DRIVE	DIRECT	DIRECT
MOUNTING	WALL	WALL
MANUFACTURER	MARS	MARS
TYPE	CENTRIFUGAL	CENTRIFUGAL
MODEL NUMBER	STD236-1UA-OB	STD248-1UA-OB
CONTROL	DOOR SWITCH	DOOR SWITCH
SERVICE	BUILDING P2, MAN DOOR	BUILDING P2, CONCESSION WINDOW
OPER. WT. (LBS)	60	70
ACCESSORIES	1	1

INDOOR UNIT SCHEDULE		
DESIGNATION	IDU-1	IDU-2
BLOWER		
SUPPLY AIR (CFM)	335	335
EXT. SP (IN, WC)	0	0
MIN. O.S.A. (CFM)	-	-
VOLTS / PHASE	208-230 / 1	208-230 / 1
MCA / MOCP	NOTE 3	NOTE 3
DRIVE	DIRECT	DIRECT
COOLING		
SENSIBLE (MBH)	9.6	9.7
TOTAL (MBH)	14.4	13.5
EADB / EAWB (°F)	80 / 67	80 / 67
REFRIGERANT TYPE	R-410A	R-410A
FILTERS		
QUANTITY / SIZE	1 / -	1 / -
TYPE	FACTORY	FACTORY
MANUFACTURER	CARRIER	CARRIER
TYPE	HIGH WALL	HIGH WALL
MODEL NUMBER	40MAHQ12XA3	40MAHQ09XA3
LOCATION	BUILDING P2, ELECTRICAL	BUILDING P2, STORAGE
OPER. WT (LBS)	22.93	22.71
ACCESSORIES	1,2,3	1,2,3

OUTDOOR UNIT SCHEDULE		
DESIGNATION	ODU-1	ODU-2
VOLTS / PHASE	208-230 / 1	208-230 / 1
MCA / MOCP	15 / 15	15 / 15
EER2 / SEER2	14 / 25.5	16.2 / 28.1
COOLING CAP. (MBH)	12.0	9.0
REFRIGERANT TYPE	R-410A	R-410A
AMBIENT (°F)	105	105
MANUFACTURER	CARRIER	CARRIER
TYPE	COOLING ONLY	HEAT PUMP
MODEL NUMBER	38MARBQ12AA3	38MARBQ09AA3
LOCATION	YARD	YARD
OPER. WT. (LBS)	73.6	74.1
ACCESSORIES	-	-

- WIRED WALL MOUNTED THERMOSTAT.
- REFRIGERANT LINE SET COVERS FOR EXPOSED PIPING IN ROOM. (AC COVER GUARD)
- POWERED THRU THE OUTDOOR UNIT.

GENERAL NOTES

- COORDINATION OF WORK: LAYOUT OF MATERIALS, EQUIPMENT AND SYSTEMS IS GENERALLY DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY. THE ACTUAL LOCATION OF ALL MATERIALS, PIPING, DUCTWORK, FIXTURES, EQUIPMENT, SUPPORTS, ETC. SHALL BE CAREFULLY PLANNED PRIOR TO INSTALLATION OF ANY WORK TO AVOID ALL INTERFERENCES WITH EACH OTHER, OR WITH STRUCTURAL, ELECTRICAL, ARCHITECTURAL OR OTHER ELEMENTS.
- VERIFY THE PROPER VOLTAGE AND PHASE OF ALL EQUIPMENT WITH THE ELECTRICAL PLANS. ALL CONFLICTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER PRIOR TO THE INSTALLATION OF ANY WORK OR THE ORDERING OF ANY EQUIPMENT. PROVIDE ALL DUCT TRANSITION PIECES AND FITTINGS REQUIRED TO ACCOMMODATE MECHANICAL EQUIPMENT CONNECTIONS, STRUCTURE, ARCHITECTURAL ELEMENTS, AND CHANGES IN DUCT SIZES.
- ALL DUCTWORK SHALL BE CONSTRUCTED, ERECTED AND TESTED IN ACCORDANCE WITH THE STANDARDS ADOPTED BY SMACNA AND CHAPTER 6 OF THE 2019 CMC.
- ALL DUCTWORK AND PIPING SHALL BE INSULATED CONSISTENT WITH THE REQUIREMENTS OF 2019 CMC. INSULATION MATERIALS SHALL MEET THE CALIFORNIA QUALITY STANDARD PER SECTION 110.8, 120.3, AND 120.4 OF THE 2019 CALIFORNIA ENERGY CODE.
- ALL DUCT SIZES SHOWN ARE NET INSIDE DIMENSIONS. DUCTWORK SHALL BE SHEET METAL CONSTRUCTED IN COMPLETE CONFORMANCE WITH CMC LATEST EDITION, CHAPTER 6 AND THE LATEST SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
- ALL DRAWINGS AND SPECIFICATIONS ARE TO BE CONSIDERED PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS PRIOR TO ANY CONSTRUCTION, INCLUDING ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENT SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR THE OWNER REPRESENTATIVE.
- PROVIDE VOLUME DAMPERS IN ALL BRANCH DUCTS (SUPPLY, RETURN, O.S.A. AND EXHAUST) FOR SYSTEM BALANCING.
- HANDLE, STORE AND INSTALL ALL EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS AND AS DIRECTED IN THE PROJECT MANUAL.
- ALL AIR SYSTEMS SHALL BE TESTED, ADJUSTED AND BALANCED TO MEET THE REQUIRED FLOW. TAB METHODOLOGY SHALL BE SUBMITTED TO OWNER REPRESENTATIVE PRIOR TO IMPLEMENTATION AND IN ACCORDANCE WITH PROJECT SEQUENCING.

ANCHORAGE & BRACING NOTES

- MEP COMPONENT ANCHORAGE NOTE**
- ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:
- ALL PERMANENT EQUIPMENT AND COMPONENTS.
 - TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
 - TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.
- THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:
- COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING 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.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

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

- MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):
- MD MP PP E
- MD MP PP E
- OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
- OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) # 0043-13.

LEGEND

SYMBOL	ITEM	ABBR.
—	ABOVE	ABV
—	ABOVE CEILING	ABV CLG
—	ABOVE FINISHED FLOOR	AFF
—	ALTERNATE	ALT
—	AIR CONDITIONING	AC
—	AIR FLOW STATION	AFS
—	AIR HANDLER UNIT	AHU
—	ANALOG INPUT	AI
—	ANALOG OUTPUT	AO
&	AND	
—	ARCHITECT / ARCHITECTURAL	ARCH
@	AT	
—	BACKDRAFT DAMPER	BDD
—	BELOW FINISH CEILING	BFC
—	BELOW FLOOR	BEL FLR
—	BELOW GRADE	BEL GR
—	BLIND FLANGE	BLF
—	BRITISH THERMAL UNIT	BTU
—	BRITISH THERMAL UNIT PER HOUR	BTUH
—	CALIFORNIA MECHANICAL CODE	CMC
—	CALIFORNIA PLUMBING CODE	CPC
—	CEILING	CLG
—	CENTER LINE	
—	CONTINUATION	CONT
—	CUBIC FEET OF AIR PER MINUTE	CFM
—	CURRENT SENSOR	CS
∅	DIAMETER	DIA
—	DIFFERENTIAL PRESSURE SWITCH	DPS
—	DIGITAL INPUT	DI
—	DIGITAL OUTPUT	DO
—	DOWN	DN
—	DRAWING	DWG
—	ELECTRICAL	ELEC
—	ELBOW	ELL
—	EXHAUST	EXH
—	EXHAUST AIR	EA
—	EXHAUST FAN	EF
—	EXISTING	(E)
—	FEET	FT
—	FLOOR	FLR
—	FLOW LINE	FL
—	FLOW SWITCH	FS
—	GAUGE	GA
—	GALLON	GAL
—	GALLONS PER HOUR	GPH
—	GALLONS PER MINUTE	GPM
—	INSIDE DIAMETER	ID
—	MAKE-UP AIR UNIT	MAU
—	MAXIMUM	MAX
—	MINIMUM	MIN
—	NEW	(N)
—	NOT IN CONTRACT	NIC
—	NOT TO SCALE	NTS
#	NUMBER	NO.
—	OUTSIDE AIR	OSA
—	OUTSIDE DIAMETER	OD
—	POUNDS	LBS
—	POUNDS PER SQUARE INCH	PSI
—	POUNDS PER SQUARE INCH ABSOLUTE	PSIA
—	POUNDS PER SQUARE INCH GAUGE	PSIG
—	POLYVINYL CHLORIDE	PVC
—	PRESSURE STATION	PS
—	RETURN AIR	RA
—	ROOM	RM
—	SUPPLY AIR	SA
—	SPECIFICATION	SPEC
—	SQUARE FEET	SQ FT
—	STAINLESS STEEL	SS
—	TEMPERATURE	TEMP
—	TEMPERATURE SENSOR	TS
—	THROUGH TYPICAL	THRU (TYP)
—	UNDER GROUND	UIG
—	VARIABLE AIR VOLUME UNIT	VAV
—	WITH	W/
—	WITHOUT	W/O
—BD—	BOILER BLOWDOWN	
—BF—	BOILER FEED	
—CF—	CHEMICAL FEED	
—A—	COMPRESSED AIR	A
—CHWS—	CHILLED WATER SUPPLY	CHWS
—CHWR—	CHILLED WATER RETURN	CHWR
—CWS—	CONDENSER WATER SUPPLY	CWS
—CWR—	CONDENSER WATER RETURN	CWR
—CW—	DOMESTIC COLD WATER	
—HWS—	HEATING HOT WATER SUPPLY	HWS
—HWR—	HEATING HOT WATER RETURN	HWR
—RD—	REFRIGERANT DISCHARGE	RD
—RL—	REFRIGERANT LIQUID	RL
—RS—	REFRIGERANT SUCTION	RS
—SCW—	SOFT COLD WATER	
—S—	STEAM SUPPLY	S

SYMBOL	ITEM	ABBR.
—CR—	STEAM CONDENSATE RETURN	CR
—SBD—	SURFACE BLOWDOWN	
—D—	DRAIN	D
—	PIPING CAP	
—	EXISTING (DESIGNATED)	(E)
—	REMOVE / DEMO EXISTING (DESIGNATED)	
—	DIRECTION OF FLOW	
—	SUPPLY AIR	SA
—	RETURN AIR	RA
—	EXHAUST AIR	EA
—	PIPE/DUCT TURN DOWN	
—	PIPE/DUCT TURN UP	
—	ROUND DUCT (SMALLER THAN 100")	
—	ROUND FLEXIBLE DUCT	
—	RECTANGULAR OR ROUND DUCT (100" AND LARGER)	
—	EXISTING DUCT (DESIGNATED)	
—	REMOVE / DEMO EXISTING DUCT (DESIGNATED)	
—	DUCT WITH ACOUSTIC LINING	
—	SUPPLY AIR DUCT DROP	
—	SUPPLY AIR DUCT RISE	
—	RETURN AIR DUCT DROP	
—	RETURN AIR DUCT RISE	
—	EXHAUST AIR DUCT DROP	
—	EXHAUST AIR DUCT RISE	
—	OUTSIDE AIR DUCT DROP	
—	OUTSIDE AIR DUCT RISE	
—	TURNING VANES	TV
—	EXTRACTOR	
—	CO ₂ SENSOR	
—	DUCT DETECTOR	DD
—	HEAT DETECTOR	HD
—	SMOKE DETECTOR	SD
—	MOTORIZED DAMPER	
—	FIRE DAMPER W/MOTORIZED RESET AND ACCESS DOOR	
—	FIRE DAMPER WITH ACCESS PANEL OR SECURITY BARS	
—	FIRE DAMPER WITH ACCESS PANEL	FD
—	FIRE/SMOKE DAMPER WITH ACCESS PANEL	F/S/D
—	VOLUME CONTROL DAMPER WITH LOCKING QUADRANT	VCD
—	REMOTE T'STAT WITH SENSOR IN DUCT	
—	THERMOSTAT; THERMOSTAT LABEL MOUNT @ +48" AFF TO TOP OF BOX EXAMPLE: THERMOSTAT FORAC-1	T'STAT
—	POINT OF CONNECTION TO EXISTING	POC
—	BYPASS TIMER	BPT
—	THERMOMETER	
—	PRESSURE GAGE	
—	SECURITY BARS	
—	PETE'S PLUG	
—	BALANCING COCK	
—	BALL VALVE	
—	BUTTERFLY VALVE	
—	CHECK VALVE	
—	CONCENTRIC REDUCER	
—	TWO-WAY CONTROL VALVE	
—	FLOW SWITCH	FS
—	FLEXIBLE CONNECTION	FLEX
—	GATE VALVE	
—	GLOBE VALVE	
—	INSTRUMENT WELL	
—	PLUG VALVE	
—	PRESSURE RELIEF VALVE	PRV
—	"Y" TYPE STRAINER	
—	UNION	
—	KEYNOTE	
—	GRILLE TAG	
—	NEW EQUIPMENT TAG EXAMPLE: DESCRIPTION EF, MARK NUMBER 8	
—	DETAIL REFERENCE EXAMPLE: DETAIL 2, SHEET M202	
—	SECTION REFERENCE EXAMPLE: SECTION 3, SHEET M400	

DSA File No.: DSA File

DSA Application No.: 02-120251

Agency Approval

General Notes

NET POSITIVE consulting engineers

www.NPCEng.com
project no. 1101

Consultant

Mission Oak HS Aquatic Complex

Tulare Joint Union High School District
Tulare, CA 93274

Project

TYPICAL INFORMATION

MECHANICAL SCHEDULES, LEGENDS, AND NOTES

Drawing

ARCHITECTURE PLANNING INTERIORS

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Architect

No.	Revision/Submission	Date
1	REVISION_01	05/31/2023

Revision

Designed By: JCS Copyright 2022 Darden Architects

Scale: 12" = 1'-0" Drawn By: HB

Project Number: 2180 Checked By: JCS

Date: 07/13/2022 Reviewed By: JCS

X/M101

8/15/2023 5:39:39 PM

DSA File No.: DSA File Agency Approval DSA Application No.: 02-120251

Mechanical Systems CERTIFICATE OF COMPLIANCE (Page 1 of 14) Mission Oak HS Aquatic Complex

Mechanical Systems CERTIFICATE OF COMPLIANCE (Page 2 of 14) Mission Oak HS Aquatic Complex

Mechanical Systems CERTIFICATE OF COMPLIANCE (Page 3 of 14) Mission Oak HS Aquatic Complex

Mechanical Systems CERTIFICATE OF COMPLIANCE (Page 4 of 14) Mission Oak HS Aquatic Complex

Mechanical Systems CERTIFICATE OF COMPLIANCE (Page 5 of 14) Mission Oak HS Aquatic Complex

Mechanical Systems CERTIFICATE OF COMPLIANCE (Page 6 of 14) Mission Oak HS Aquatic Complex

Mechanical Systems CERTIFICATE OF COMPLIANCE (Page 7 of 14) Mission Oak HS Aquatic Complex

Mechanical Systems CERTIFICATE OF COMPLIANCE (Page 8 of 14) Mission Oak HS Aquatic Complex

FAN SYSTEMS & AIR ECONOMIZERS (Table 1) Mission Oak HS Aquatic Complex

FAN SYSTEMS & AIR ECONOMIZERS (Table 2) Mission Oak HS Aquatic Complex

FAN SYSTEMS & AIR ECONOMIZERS (Table 3) Mission Oak HS Aquatic Complex

EXHAUST AIR HEAT RECOVERY (Table 1) Mission Oak HS Aquatic Complex

Mechanical Systems CERTIFICATE OF COMPLIANCE (Page 9 of 14) Mission Oak HS Aquatic Complex

Mechanical Systems CERTIFICATE OF COMPLIANCE (Page 10 of 14) Mission Oak HS Aquatic Complex

Mechanical Systems CERTIFICATE OF COMPLIANCE (Page 11 of 14) Mission Oak HS Aquatic Complex

Mechanical Systems CERTIFICATE OF COMPLIANCE (Page 12 of 14) Mission Oak HS Aquatic Complex

VENTILATION AND INDOOR AIR QUALITY (Table 1) Mission Oak HS Aquatic Complex

VENTILATION AND INDOOR AIR QUALITY (Table 2) Mission Oak HS Aquatic Complex

VENTILATION AND INDOOR AIR QUALITY (Table 3) Mission Oak HS Aquatic Complex

VENTILATION AND INDOOR AIR QUALITY (Table 4) Mission Oak HS Aquatic Complex

Mechanical Systems CERTIFICATE OF COMPLIANCE (Page 13 of 14) Mission Oak HS Aquatic Complex

Mechanical Systems CERTIFICATE OF COMPLIANCE (Page 14 of 14) Mission Oak HS Aquatic Complex

Mechanical Systems CERTIFICATE OF COMPLIANCE (Page 15 of 14) Mission Oak HS Aquatic Complex

Mechanical Systems CERTIFICATE OF COMPLIANCE (Page 16 of 14) Mission Oak HS Aquatic Complex

General Notes



Mission Oak HS Aquatic Complex Tulare Joint Union High School District Tulare, CA 93274

TYPICAL INFORMATION TITLE 24 DOCUMENTATION

ARCHITECTURE PLANNING INTERIORS www.dardenarchitects.com

Table with 3 columns: No., Revision/Submission, Date. Includes revision 01 dated 05/31/2023.

Scale: Drawn By: HB Project Number: 2180 Checked By: JCS Date: 07/13/2022 Reviewed By: JCS

DSA File No.: DSA File Agency Approval DSA Application No.: 02-120251

CERTIFICATE OF COMPLIANCE Mechanical Systems CALIFORNIA ENERGY COMMISSION NRC-MCH-1 Project Name: Mission Oak HS Aquatic Complex Report Page: (Page 14 of 14) Date Prepared: 2023-05-23T18:22:05-04:00

D. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table F. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documentation/nonresidential_documents/NRC/MCH-1

Table with 2 columns: Mandatory Measure, Compliance with Mandatory Measures documented through MCH. Rows include Heating Equipment Efficiency, Control Equipment Efficiency, Furnace Standby Loss Control, Heat Pump with Supplemental Electric Resistance Heater Controls, and Kitchen range hoods.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 110361-0523-0003 Report Generated: 2023-05-25 13:23:08

CERTIFICATE OF COMPLIANCE Domestic Water Heating System CALIFORNIA ENERGY COMMISSION NRC-PH-B-1 Project Name: Mission Oak HS Aquatic Complex Report Page: (Page 3 of 8) Date Prepared: 2023-05-23T18:22:05-04:00

Table with 6 columns: System Name, Equipment Type, Volume, Capacity, Max GPM, First Hour Rating, Rated Efficiency, Minimum Efficiency Required, Efficiency Unit, Designated Standby Loss, Maximum Standby Loss. Rows include Commercial Gas Instantaneous Water Heater and Consumer Rated Electric Instantaneous Water Heater.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 110361-0523-0004 Report Generated: 2023-05-25 15:22:06

CERTIFICATE OF COMPLIANCE Domestic Water Heating System CALIFORNIA ENERGY COMMISSION NRC-PH-B-1 Project Name: Mission Oak HS Aquatic Complex Report Page: (Page 7 of 8) Date Prepared: 2023-05-23T18:22:05-04:00

D. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table F. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online.

F. DOMESTIC HOT WATER EQUIPMENT This table is used to demonstrate compliance with mandatory equipment requirements in 110.1.1 and 110.3. Compliance with prescriptive requirements in 140.5(c) / 170.1(b) must also be demonstrated and with 141.5 / 182.7 for addition and alterations.

Table with 6 columns: System Name, Equipment Type, Volume, Capacity, Max GPM, First Hour Rating, Rated Efficiency, Minimum Efficiency Required, Efficiency Unit, Designated Standby Loss, Maximum Standby Loss. Rows include WH-1 and WH-2.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 110361-0523-0004 Report Generated: 2023-05-25 15:22:06

CERTIFICATE OF COMPLIANCE Mechanical Systems CALIFORNIA ENERGY COMMISSION NRC-MCH-2 Project Name: Mission Oak HS Aquatic Complex Report Page: (Page 14 of 14) Date Prepared: 2023-05-23T18:22:05-04:00

D. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table F. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documentation/nonresidential_documents/NRC/MCH-2

Table with 2 columns: Mandatory Measure, Compliance with Mandatory Measures documented through MCH. Rows include Heating Equipment Efficiency, Control Equipment Efficiency, Furnace Standby Loss Control, Heat Pump with Supplemental Electric Resistance Heater Controls, and Kitchen range hoods.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 110361-0523-0003 Report Generated: 2023-05-25 13:23:08

CERTIFICATE OF COMPLIANCE Domestic Water Heating System CALIFORNIA ENERGY COMMISSION NRC-PH-B-2 Project Name: Mission Oak HS Aquatic Complex Report Page: (Page 4 of 8) Date Prepared: 2023-05-23T18:22:05-04:00

Table with 6 columns: System Name, Equipment Type, Volume, Capacity, Max GPM, First Hour Rating, Rated Efficiency, Minimum Efficiency Required, Efficiency Unit, Designated Standby Loss, Maximum Standby Loss. Rows include WH-1 and WH-2.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 110361-0523-0004 Report Generated: 2023-05-25 15:22:06

CERTIFICATE OF COMPLIANCE Domestic Water Heating System CALIFORNIA ENERGY COMMISSION NRC-PH-B-2 Project Name: Mission Oak HS Aquatic Complex Report Page: (Page 7 of 8) Date Prepared: 2023-05-23T18:22:05-04:00

D. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table F. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online.

F. DOMESTIC HOT WATER EQUIPMENT This table is used to demonstrate compliance with mandatory equipment requirements in 110.1.1 and 110.3. Compliance with prescriptive requirements in 140.5(c) / 170.1(b) must also be demonstrated and with 141.5 / 182.7 for addition and alterations.

Table with 6 columns: System Name, Equipment Type, Volume, Capacity, Max GPM, First Hour Rating, Rated Efficiency, Minimum Efficiency Required, Efficiency Unit, Designated Standby Loss, Maximum Standby Loss. Rows include WH-1 and WH-2.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 110361-0523-0004 Report Generated: 2023-05-25 15:22:06

CERTIFICATE OF COMPLIANCE Domestic Water Heating System CALIFORNIA ENERGY COMMISSION NRC-PH-B-3 Project Name: Mission Oak HS Aquatic Complex Report Page: (Page 1 of 8) Date Prepared: 2023-05-23T18:22:05-04:00

A. GENERAL INFORMATION Table with 3 columns: 01 Project Location (City), 02 Climate Zone, 03 Occupancy Types Within Project (select all that apply). Rows include Tulare and 03.

Table with 3 columns: 01 My project consists of (check all that apply), 02 System Type, 03 System Components. Rows include 01, 02, 03.

C. COMPLIANCE RESULTS Table with 4 columns: 01, 02, 03, 04. Rows include 01, 02, 03, 04.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 110361-0523-0004 Report Generated: 2023-05-25 15:22:06

CERTIFICATE OF COMPLIANCE Domestic Water Heating System CALIFORNIA ENERGY COMMISSION NRC-PH-B-3 Project Name: Mission Oak HS Aquatic Complex Report Page: (Page 5 of 8) Date Prepared: 2023-05-23T18:22:05-04:00

Table with 6 columns: System Name, Equipment Type, Volume, Capacity, Max GPM, First Hour Rating, Rated Efficiency, Minimum Efficiency Required, Efficiency Unit, Designated Standby Loss, Maximum Standby Loss. Rows include WH-1 and WH-2.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 110361-0523-0004 Report Generated: 2023-05-25 15:22:06

CERTIFICATE OF COMPLIANCE Domestic Water Heating System CALIFORNIA ENERGY COMMISSION NRC-PH-B-3 Project Name: Mission Oak HS Aquatic Complex Report Page: (Page 7 of 8) Date Prepared: 2023-05-23T18:22:05-04:00

D. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table F. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online.

F. DOMESTIC HOT WATER EQUIPMENT This table is used to demonstrate compliance with mandatory equipment requirements in 110.1.1 and 110.3. Compliance with prescriptive requirements in 140.5(c) / 170.1(b) must also be demonstrated and with 141.5 / 182.7 for addition and alterations.

Table with 6 columns: System Name, Equipment Type, Volume, Capacity, Max GPM, First Hour Rating, Rated Efficiency, Minimum Efficiency Required, Efficiency Unit, Designated Standby Loss, Maximum Standby Loss. Rows include WH-1 and WH-2.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 110361-0523-0004 Report Generated: 2023-05-25 15:22:06

CERTIFICATE OF COMPLIANCE Domestic Water Heating System CALIFORNIA ENERGY COMMISSION NRC-PH-B-4 Project Name: Mission Oak HS Aquatic Complex Report Page: (Page 2 of 8) Date Prepared: 2023-05-23T18:22:05-04:00

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

Table with 6 columns: System Name, Equipment Type, Volume, Capacity, Max GPM, First Hour Rating, Rated Efficiency, Minimum Efficiency Required, Efficiency Unit, Designated Standby Loss, Maximum Standby Loss. Rows include WH-1 and WH-2.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 110361-0523-0004 Report Generated: 2023-05-25 15:23:08

CERTIFICATE OF COMPLIANCE Domestic Water Heating System CALIFORNIA ENERGY COMMISSION NRC-PH-B-4 Project Name: Mission Oak HS Aquatic Complex Report Page: (Page 6 of 8) Date Prepared: 2023-05-23T18:22:05-04:00

Table with 6 columns: System Name, Equipment Type, Volume, Capacity, Max GPM, First Hour Rating, Rated Efficiency, Minimum Efficiency Required, Efficiency Unit, Designated Standby Loss, Maximum Standby Loss. Rows include WH-1 and WH-2.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 110361-0523-0004 Report Generated: 2023-05-25 15:22:06

CERTIFICATE OF COMPLIANCE Domestic Water Heating System CALIFORNIA ENERGY COMMISSION NRC-PH-B-4 Project Name: Mission Oak HS Aquatic Complex Report Page: (Page 8 of 8) Date Prepared: 2023-05-23T18:22:05-04:00

General Notes



Mission Oak HS Aquatic Complex Tulare Joint Union High School District Tulare, CA 93274 Project

TYPICAL INFORMATION TITLE 24 DOCUMENTATION Drawing

ARCHITECTURE PLANNING INTERIORS www.dardenarchitects.com 6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051 Architect

Table with 3 columns: No., Revision/Submission, Date. Row 1: 1, REVISION_01, 05/31/2023. Includes a revision table and project details like Scale, Project Number, Date, and Reviewer.

CONSTRUCTION SET

APPROVED
BY THE STATE ARCHITECT
APP: 02-120251, INC.
REVIEWED FOR
SS ID: PLS ID: ACS ID
DATE: 05/28/2023

DSA File No.:
DSA File

DSA Application No.:
02-120251

Agency Approval

KEYNOTES

- 1 ROOF MOUNTED EXHAUST FAN MOUNTED ON CURB
PER DETAILS E4/X/M102 - 10/18/AS02 & 14/X/AS02
- 2 8" Ø FLUE WITH CONCENTRIC INTAKE

J7
N.T.S.

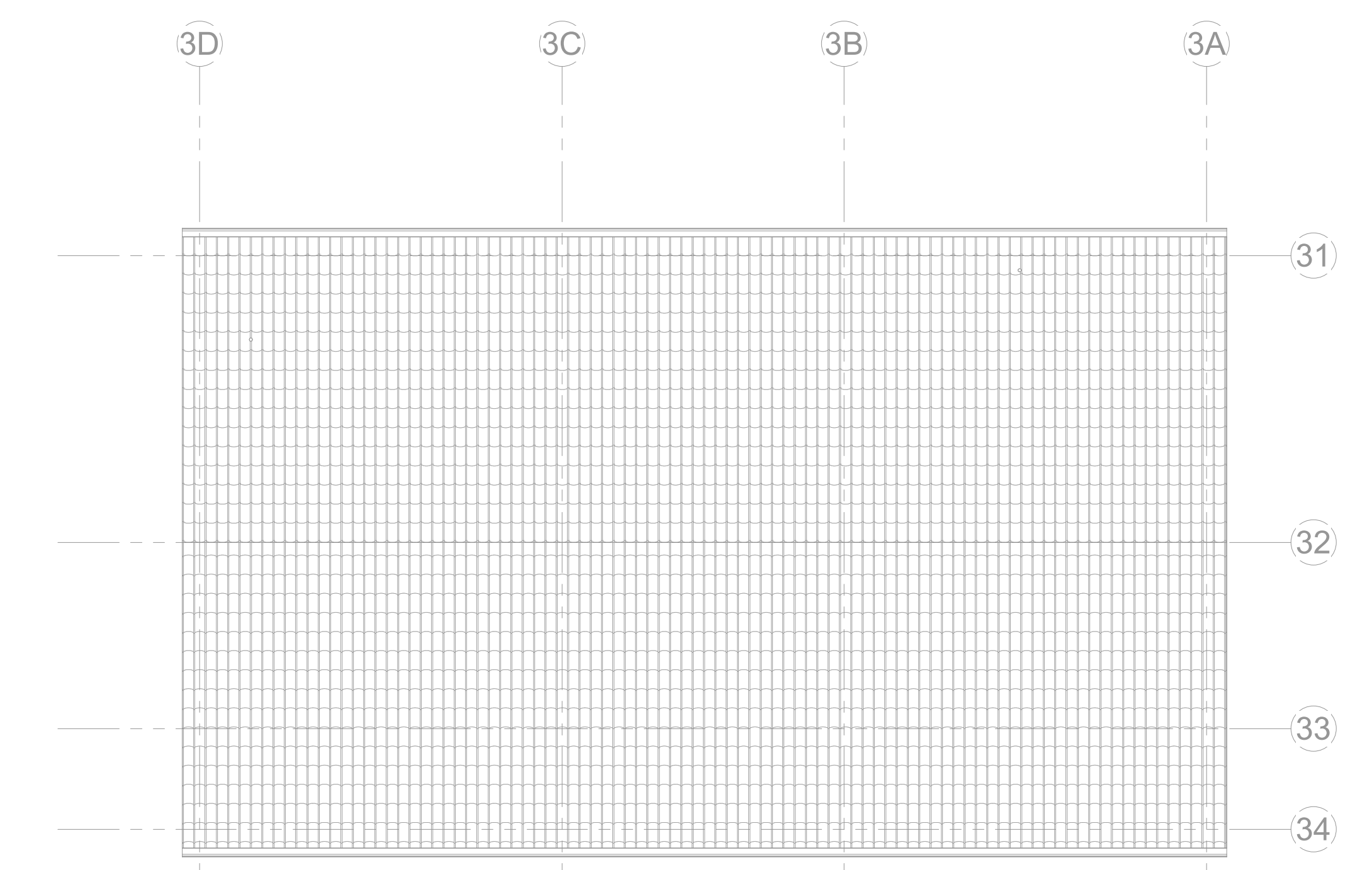
MECHANICAL ROOF PLAN - BASE BID - BUILDING 2

A7
1/8" = 1'-0"

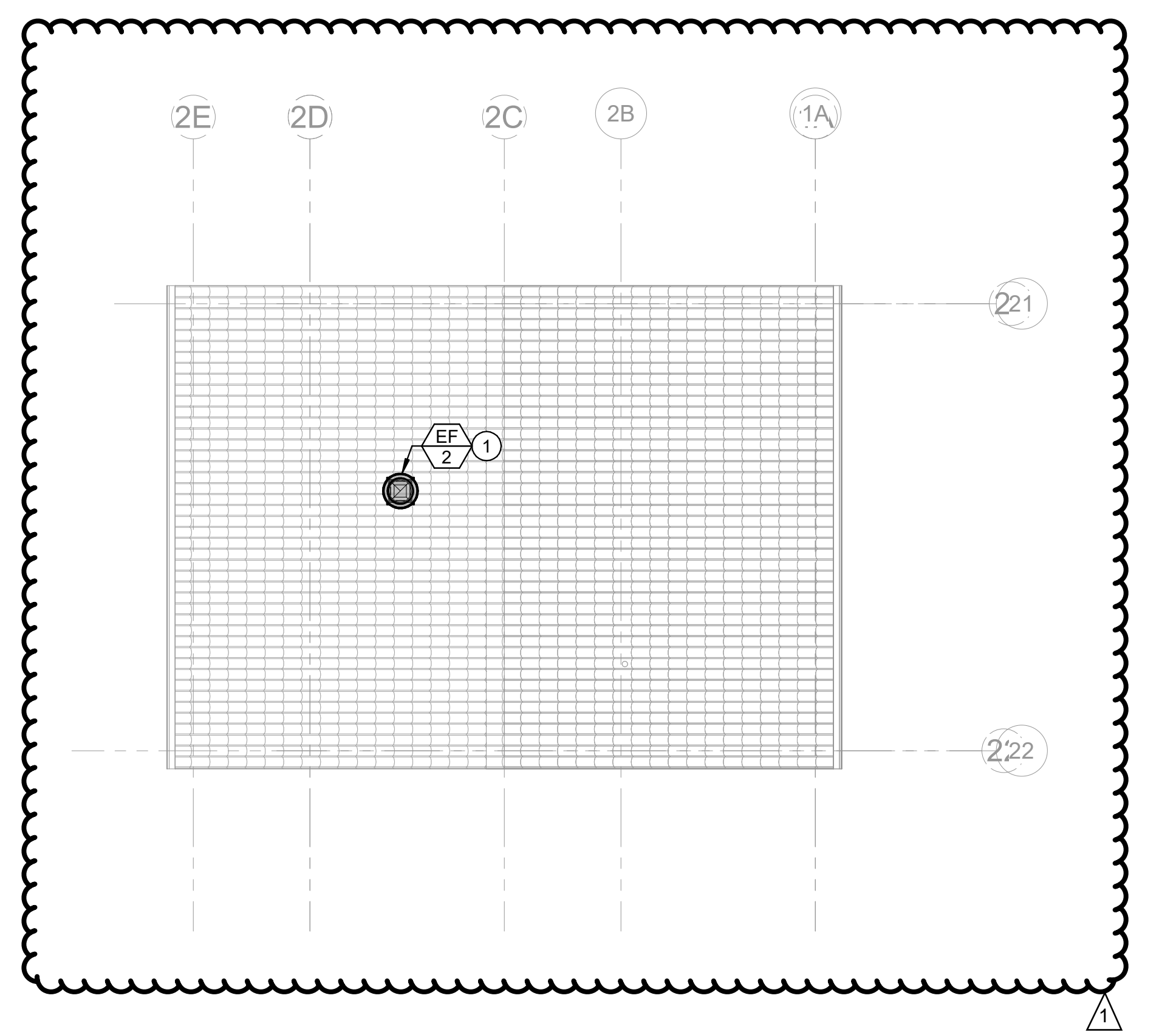
MECHANICAL ROOF PLAN - ALT BID - BUILDING P2

A13
1/8" = 1'-0"

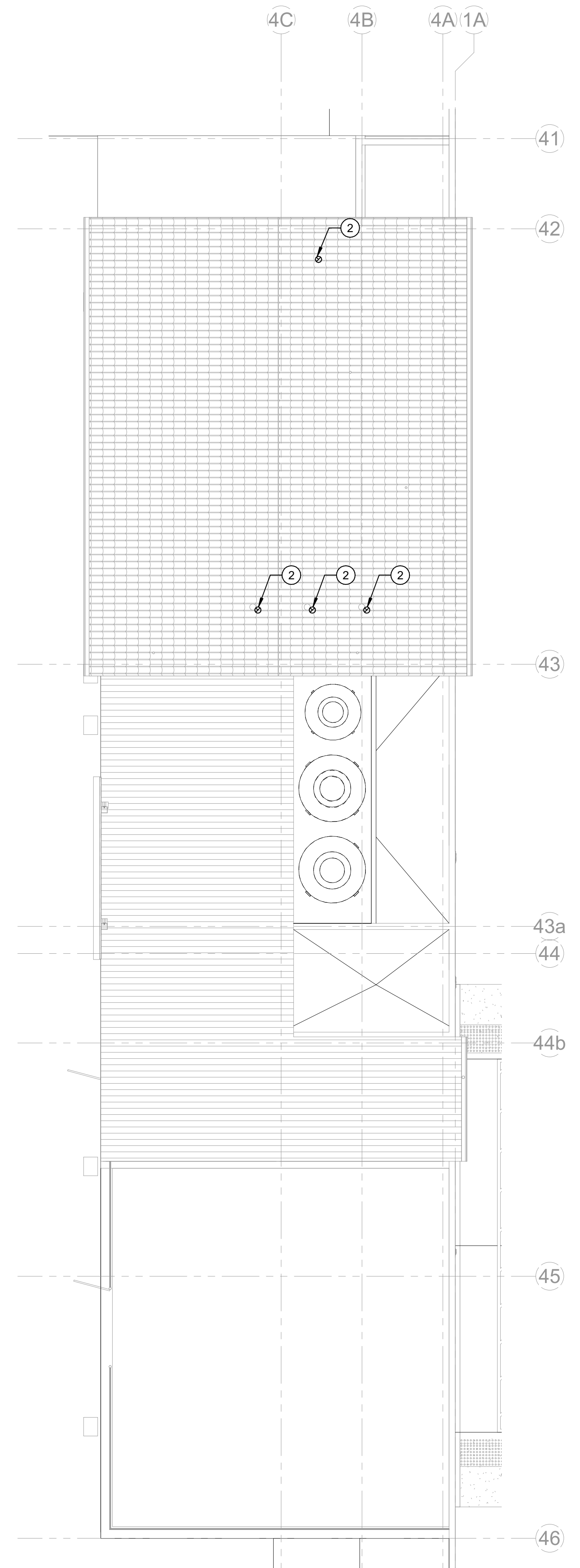
MECHANICAL ROOF PLAN - BUILDING P4



A1
1/8" = 1'-0"
MECHANICAL ROOF PLAN - BUILDING P3



A7
1/8" = 1'-0"
MECHANICAL ROOF PLAN - ALT BID - BUILDING P2



A13
1/8" = 1'-0"
MECHANICAL ROOF PLAN - BUILDING P4

General Notes

NET POSITIVE
consulting
engineers
www.NPCEng.com
project no. 1101

Consultant

Mission Oak HS Aquatic Complex
Tulare Joint Union High School District
Tulare, CA 93274

BUILDING P2, P3, & P4
MECHANICAL ROOF PLANS

ARCHITECTURE
PLANNING
INTERIORS
architects
www.dardenarchitects.com
6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051

Architect

No.	Revision/Submission	Date
1	REVISION_01	05/31/2023

Revision

Designed By: JCS Copyright 2022 Darden Architects

Scale: As Indicated Drawn By: HB

Project Number: 2180 Checked By: JCS

Date: 07/13/2022 Reviewed By: JCS

P/M301

8/15/2023 5:39:35 PM

CONSTRUCTION SET

APPROVED
BY THE STATE ARCHITECT
APP: 02-190251, INC.
REVIEWED FOR
SS ID: PLS ID: ACS ID:
DATE: 08/28/2023

FIRE PROTECTION SHEET INDEX	
SHEET NUMBER	SHEET NAME
FP001	FIRE PROTECTION - PROJECT INFORMATION
FP002	FIRE PROTECTION - SITE PLAN
FP100	FIRE PROTECTION - PIPING PLANS
FP200	FIRE PROTECTION - REFLECTED CEILING PLANS
FP400	FIRE PROTECTION - BLDG. P2 & P3 SECTION VIEWS
FP401	FIRE PROTECTION - BLDG. P4 SECTION VIEWS
FP500	FIRE PROTECTION - DETAILS

PIPING SYSTEM SCHEDULE			
PRODUCT	MANUFACTURER	SCHEDULE	MATERIAL TYPE
MAINS	WHEATLAND OR EQUAL	SCH 10	STEEL
BRANCHLINES > 1"	WHEATLAND OR EQUAL	SCH 10	STEEL
BRANCHLINES 1" & LESS	WHEATLAND OR EQUAL	SCH 40	STEEL
GROOVED FITTINGS	VICTAULIC OR EQUAL	175 PSI	DUCTILE IRON
THREADED FITTINGS	ANVIL OR EQUAL	175 PSI	DUCTILE IRON

FIRE PROTECTION ABBREVIATIONS

A.D.	ACCESS DOOR
A.F.F.	ABOVE FINISHED FLOOR
ALP.	ALARM PANEL
A.P.	ACCESS PANEL
B.F.F.	BELOW FINISHED FLOOR
B.F.P.	BACKFLOW PREVENTOR
C.P.	CONTROL PANEL
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
ELEV	ELEVATION
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FHC	FIRE HOSE VALVE CONNECTION (2-1/2")
FHV	FIRE HOSE VALVE
FLR	FLOOR
FS	FLOW SWITCH NORMALLY CLOSED N.C.
N.I.C	NOT TO SCALE
N.T.S.	NOT IN CONTRACT
OS&Y	OUTSIDE STEM AND YOKE GATE VALVE
PSIG	POUNDS PER SQUARE INCH GAUGE
TS	TAMPER SWITCH
TYP.	TYPICAL THROUGHOUT
PIV	POST INDICATOR VALVE

PROJECT TOTAL SPRINKLER SCHEDULE									
Sprinkler Symbol	Count	Manufacturer	Model	Orifice Size	K-Factor	Temperature Rating	Sprinkler Orientation	Finish	
⊙	71	VICTAULIC Inc.	V2704	1/2"	5.6	200 °F	Upright	Brass	
●	30	VICTAULIC Inc.	V3802	1/2"	5.6	155 °F	Pendent	White	

HYDRAULIC CALCULATION CRITERIA

- ALL SPRINKLER SYSTEMS THROUGHOUT THE BUILDING SHALL BE HYDRAULICALLY CALCULATED BASED ON COORDINATED SHOP DRAWINGS.
- SPRINKLER SYSTEM LAYOUT AND CALCULATIONS SHALL COMPLY WITH THE CALIFORNIA BUILDING CODE, NFPA 13, OWNER'S INSURANCE COMPANY REQUIREMENTS AND GOOD ENGINEERING PRACTICE.
- OCCUPANCY CLASSIFICATION:
 - LIGHT HAZARD OCCUPANCY: CLASSROOMS, CORRIDORS, COMMON AREAS.
 - ORDINARY HAZARD GROUP-1 OCCUPANCY: STORAGE, MECHANICAL, ELECTRICAL ROOMS
 - ORDINARY HAZARD GROUP-2 OCCUPANCY: POOL STORAGE
- SPRINKLERS PROTECTING LIGHT HAZARD OCCUPANCY SHALL PROVIDE A MINIMUM DENSITY DISCHARGE OF .10 GPM/SQ.FT. OVER MOST HYDRAULICALLY REMOTE 1,500 SQ.FT., MAXIMUM COVERAGE PER SPRINKLER HEAD- 225 SQ.FT.
- SPRINKLERS PROTECTING ORDINARY HAZARD GROUP-1 OCCUPANCY SHALL PROVIDE A MINIMUM DENSITY DISCHARGE OF .15 GPM/SQ.FT. OVER MOST HYDRAULICALLY REMOTE 1,500 SQ.FT., MAXIMUM COVERAGE PER SPRINKLER HEAD- 130 SQ.FT.
- SPRINKLERS PROTECTING ORDINARY HAZARD GROUP-2 OCCUPANCY SHALL PROVIDE A MINIMUM DENSITY DISCHARGE OF .20 GPM/SQ.FT. OVER MOST HYDRAULICALLY REMOTE 1,500 SQ.FT., MAXIMUM COVERAGE PER SPRINKLER HEAD- 130 SQ.FT.
- MINIMUM PRESSURE AT ANY SPRINKLER HEAD SHALL BE AS REQUIRED BY HYDRAULIC CALCULATIONS BUT IN NO CASE LESS THEN 7-PSI.

GENERAL NOTES

- IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS FOR THE CONTRACTOR TO FURNISH AND INSTALL A COMPLETE NEW WET FIRE SPRINKLER PROTECTION SYSTEM FOR THE BUILDING IN FULL COMPLIANCE WITH THE STATE OF CALIFORNIA AND BUILDING CODES INCLUDING: VALVES, RISERS, AND ALARMS AS REQUIRED. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE FULL INSTALLATION ASPECT OF THE FIRE PROTECTION SYSTEM IN ACCORDANCE WITH APPLICABLE CODES.
- THE ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE AUTHORITIES HAVING JURISDICTION INCLUDING BUT NOT LIMITED TO, STATE BUILDING AND FIRE CODES AND ALL APPENDICES, THE NATIONAL FIRE PROTECTION ASSOCIATION STANDARD NO. 13, 14 & 20 AS ADOPTED BY THE STATE OF CALIFORNIA, AND THE OWNER'S INSURANCE UNDERWRITERS.
- IF THERE ARE ANY QUESTIONS CONCERNING WHAT THE INSURANCE UNDERWRITER WILL REQUIRE IN ORDER TO APPROVE THE COMPLETED INSTALLATION (PIPING SIZING, LOCATION OF RISERS, TEST STATIONS, HYDRANTS, ALARMS, ETC.) THE BIDDER SHALL CONSULT WITH THE INSURANCE UNDERWRITER BEFORE SUBMITTING HIS BID. FAILURE TO CONSULT WITH THE INSURANCE UNDERWRITER DOES NOT RELIEVE THIS CONTRACTOR FROM HIS RESPONSIBILITY BY THE COMPLETION OF ANY AND ALL WORK REQUIRED WITH NO EXTRA CHARGES TO THE OWNER.
- FURNISH ALL MATERIALS, LABOR, TOOLS, EQUIPMENT AND SUPERVISION REQUIRED FOR THE INSTALLATION OF COMPLETE SYSTEMS AND ALL NECESSARY PIPING, SPRINKLER HEADS, TEST CONNECTIONS, VALVES, DRAINS AND SPRINKLER ALARMS, FLOW SWITCHES, HORNS OR GONGS, DETECTOR CHECK VALVES, SIAMESE FIRE DEPARTMENT CONNECTIONS, PRESSURE GAUGES, AND OTHER REQUIRED COMPONENTS.
- ALL MATERIALS EXPOSED WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84. CONTRACTOR SHALL PROVIDE PROOF OF COMPLIANCE WITH THIS REQUIREMENT UPON REQUEST.
- ALL SPRINKLER PIPING SHALL BE CONCEALED IN ALL FINISHED AREAS, AVOIDING INTERFERENCE WITH LIGHTS, DUCTS, PIPES, ETC. BALANCE AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84. CONTRACTOR SHALL PROVIDE PROOF OF COMPLIANCE WITH THIS REQUIREMENT UPON REQUEST.
- SPRINKLER HEADS SHALL NOT INTERFERE WITH LIGHTING FIXTURES, SPEAKERS, AIR CONDITIONING DIFFUSERS AND GRILLES, ETC. COORDINATE WITH ARCHITECT'S REFLECTED CEILING PRIOR TO SUBMITTING SHOP DRAWING.
- EXACT LOCATION OF SPRINKLER HEADS AND PIPING SHALL BE COORDINATED WITH OTHER TRADES AND THE ARCHITECT'S REFLECTED CEILING PLAN BEFORE INSTALLATION.
- CUTTING AND NOTCHING OF JOISTS IS NOT ACCEPTABLE AND WILL NOT BE PERMITTED. ANY DAMAGE CAUSED TO THE BUILDING STRUCTURE DURING INSTALLATION SHALL BE REPAIRED AT THIS CONTRACTORS EXPENSE.
- ALL ELECTRICAL REQUIREMENTS FOR FIRE PROTECTION AND SPRINKLER SYSTEM ARE TO BE INCLUDED AS PART OF THIS CONTRACTOR'S RESPONSIBILITY. THIS CONTRACTOR SHALL SUB-CONTRACT FOR ALL WIRING AND RELATED COMPONENT REQUIREMENTS WITH SEPARATE ELECTRICAL CONTRACTOR. ALARM WIRING REQUIREMENTS FOR THE FIRE PROTECTION AND ALARM SYSTEM ARE TO BE INCLUDED IN THIS WORK.
- WHEN COMPLETED, THE ENTIRE SPRINKLER SYSTEM SHALL BE TESTED IN ACCORDANCE WITH CHAPTER 25 OF NFPA 13 AND AS REQUIRED BY THE RULES AND REGULATIONS OF THE AUTHORITIES HAVING JURISDICTION. ALL SYSTEMS MUST BE FREE OF LEAKS AND ANY OTHER DEFECTS.
- ALL EQUIPMENT AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE(1) YEAR AFTER ACCEPTANCE BY THE OWNER AND ARCHITECT, AGAINST DEFECTIVE MATERIALS AND LABOR AND IMPROPER DESIGN.
- CONTRACTOR SHALL MAKE AN ALLOWANCE FOR A MINIMUM OF 5% ADDITIONAL SPRINKLER HEADS TO BE INSTALLED AS TO PROVIDE ADEQUATE COVERAGE DUE TO ANY OBSTRUCTIONS, DUCTWORK, PIPING, ETC. INSTALLED DURING CONSTRUCTION WHICH MAY ALTER THE ORIGINAL SPRINKLER DESIGN.
- FURNISH SPRINKLER CABINETS OF FINISHED STEEL AND HINGED COVER SIMILAR TO POTTER-ROEMER FIG. 6162 WITH SPACE FOR A MINIMUM OF 6 SPARE SPRINKLER HEADS PLUS SPRINKLER WRENCH FOR EACH TYPE. SUITABLE FOR WALL MOUNTING. FURNISH SIX (6) EXTRA SPRINKLER HEADS, WITH A MINIMUM OF (2) OF EACH TYPE. THIS SHALL ALSO INCLUDE ESCUTCHEONS.
- INSTALL SPRINKLER PIPING TO PROVIDE FOR SYSTEM DRAINAGE IN ACCORDANCE WITH NFPA 13.
- INSTALL SPRINKLER PIPING ACCORDING TO NFPA 13 VIBRATION ISOLATION AND SEISMIC RESTRAINTS.
- CONTRACTOR TO PAY FOR AND SUPPLY ALL DUMPSTERS FOR DEBRIS REMOVAL, COORDINATE AND OBTAIN APPROVAL FOR DUMPSTER LOCATIONS ON SITE AND DEBRIS REMOVAL ROUTES WITH THE CONSTRUCTION MANAGER.
- INSTALL NON-COMBUSTIBLE HOODS OR SHIELDS ABOVE IMPORTANT ELECTRICAL EQUIPMENT FOR PROTECTION FROM SPRINKLER DISCHARGE PER NFPA 13, 8.14.10.2.
- WHERE WORK BETWEEN THESE DRAWINGS AND ARCHITECTURAL PLANS ARE IN CONFLICT, ADVISE ARCHITECT AND ENGINEER PRIOR TO INSTALLATION OF SPRINKLER WORK.
- ALL SPRINKLER DRAINS SHALL RUN TO SAFE LOCATIONS TO PREVENT OVERFLOW OF DRAINS.
- PORTABLE FIRE EXTINGUISHERS, IF REQUIRED (OF REQUIRED CLASS AND CAPACITY) ARE NOT PART OF THIS CONTRACT.
- ALL PIPING SYSTEMS SHOWN ON THESE DRAWINGS ARE DIAGRAMMATIC AND EVERY ATTEMPT HAS BEEN MADE TO INDICATE OFFSETS AND PIPING ARRANGEMENTS TO SUIT ACTUAL INSTALLATION REQUIREMENTS. HOWEVER, SPRINKLER CONTRACTOR SHALL COORDINATE WITH THE G.C. AND ALL OTHER TRADES WHEN LAYING OUT HIS WORK TO ENSURE CONFLICT AVOIDANCE.
- AS THE ACTUAL LIFE SPAN OF THE SPRINKLER SYSTEM IS DEPENDENT ON MANY VARIABLES, INCLUDING BUT NOT LIMITED TO WATER QUALITY AND ATMOSPHERIC CONDITIONS, THE ENGINEER ASSUMES NO LIABILITY OR RESPONSIBILITY OF THE LIFE SPAN OF THE SPRINKLER SYSTEM DUE TO MICRO-BIOLOGICALLY INFLUENCED CORROSION (MIC). THE SPRINKLER CONTRACTOR AND/OR THE GENERAL CONTRACTOR SHALL HAVE THE SPRINKLER SYSTEM TESTED AND TREATED (IF NECESSARY) FOR PROTECTION AGAINST MICRO-BIOLOGICALLY INFLUENCED CORROSION (MIC).
- INSTALLATION OF THE SPRINKLER SYSTEM SHALL NOT BE STARTED UNTIL DRAWINGS, SPECIFICATIONS, CALCULATIONS, ETC. HAVE BEEN APPROVED BY DSA.
- STORAGE AREAS CONTAINING CORROSSIVE CHEMICALS SHALL HAVE CORROSSION RESTISTANT SPRINKLERS OF THE SAME ORIENTATION, TEMPERATURE, AND K-FACTOR INSTALLED.
- THE INSTALLING CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, CALCULATIONS, AND TECHINCAL SUBMITALS FOR REVIEW PRIOR TO INSTALLATION.

NOTES:

- ALARM CHECK VALVE VICTAULIC MODEL 751 OR APPROVED EQUAL.
- BACKFLOW PREVENTER LF757DCDA SERIES WATTS - 6" DCDA OR APPROVED EQUAL.
- THE BACKFLOW PREVENTER VALVES SHALL BE ELECTRICALLY SUPERVISED BY A TAMPER SWITCH INSTALLED IN ACCORDANCE WITH NFPA 72 AND SEPERATED ANNUNCIATED.
- ALL VALVES CONTROLLING THE WATER SUPPLY FOR AUTOMATIC SPRINKLER SYSTEMS, PUMPS, WATER FLOW SWITCHES ON ALL SPRINKLER SYSTEMS SHALL BE ELCTRICALLY SUPERVISED BY THE FIRE ALARM SYSTEM.
- 4" DOUBLE DETECTOR CHECK ASSEMBLY (DCDA). DEVICE MUST BE INSTALLED AS PER AHJ APPROVED DOCUMENTS INCLUDING BUT NOT LIMITED TO THE STATE OF CALIFORNIA DSA.

DSA File No.:

DSA Application No.:

Agency Approval

General Notes

NET POSITIVE
consulting
engineers
www.npceing.com
project no. 1101



Consultant

Mission Oaks HS Aquatic Complex
Tulare Joint Union High School District
Tulare, CA 93274

Project

FIRE PROTECTION - PROJECT INFORMATION
Drawing

darden ARCHITECTURE
PLANNING
INTERIORS
architects www.dardenarchitects.com
6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051



Architect

No.	Revision/Submission	Date
1	REVISION_01	05/31/2023

Revision

Designed Designer Copyright 2022 Darden Architects

Scale: Drawn By: Author

Project Number: 2180 Checked IChecker

Date: 01/20/2023 Reviewer Approver

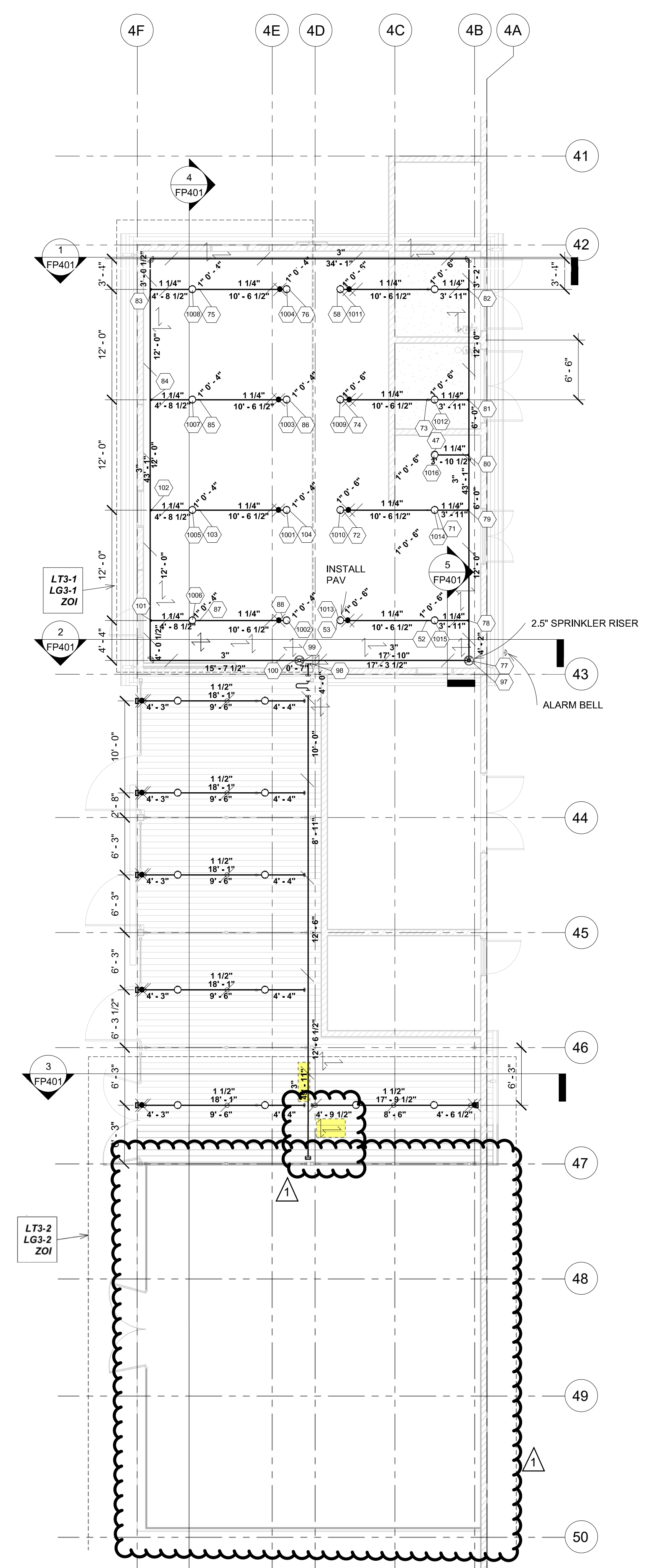
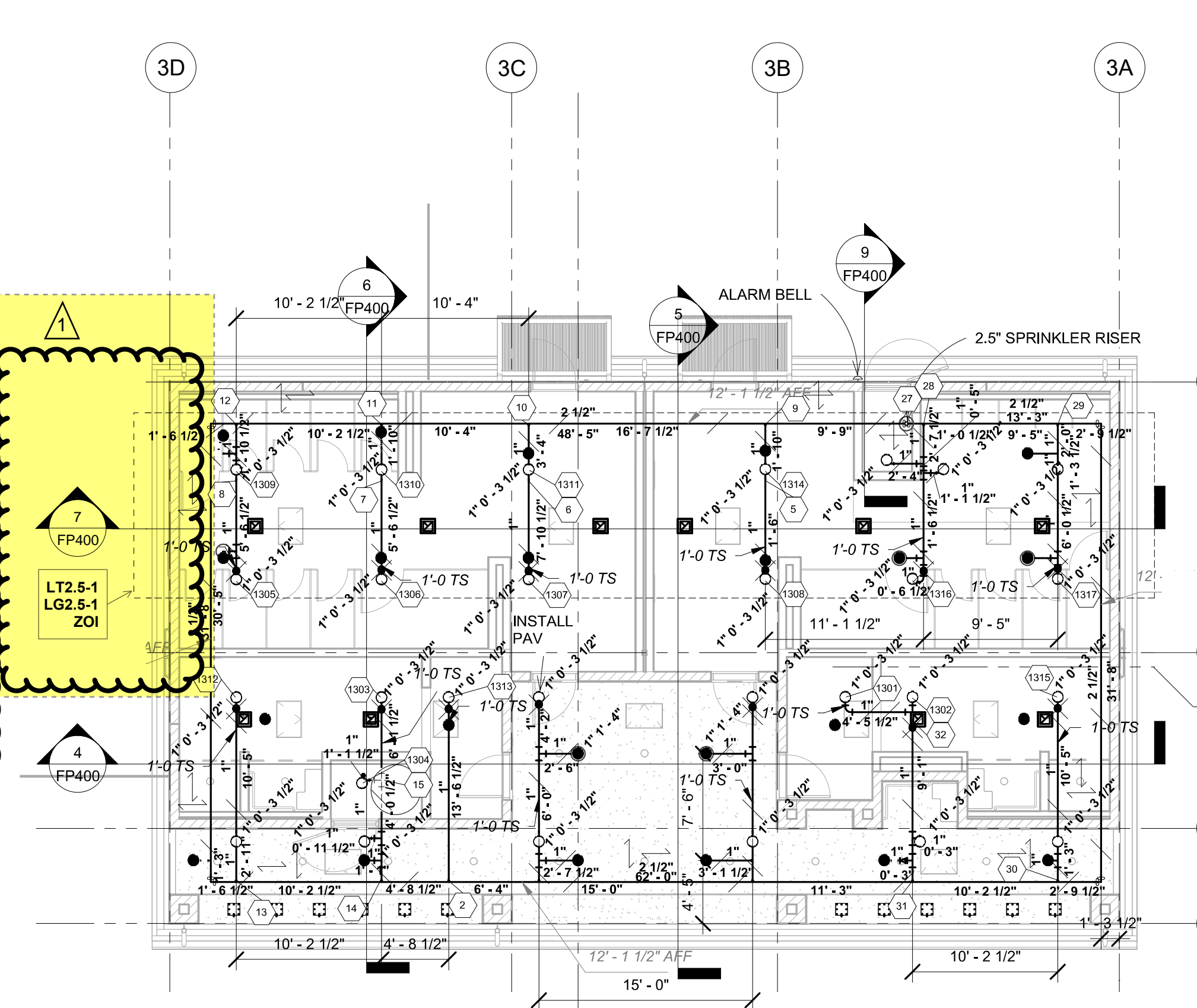
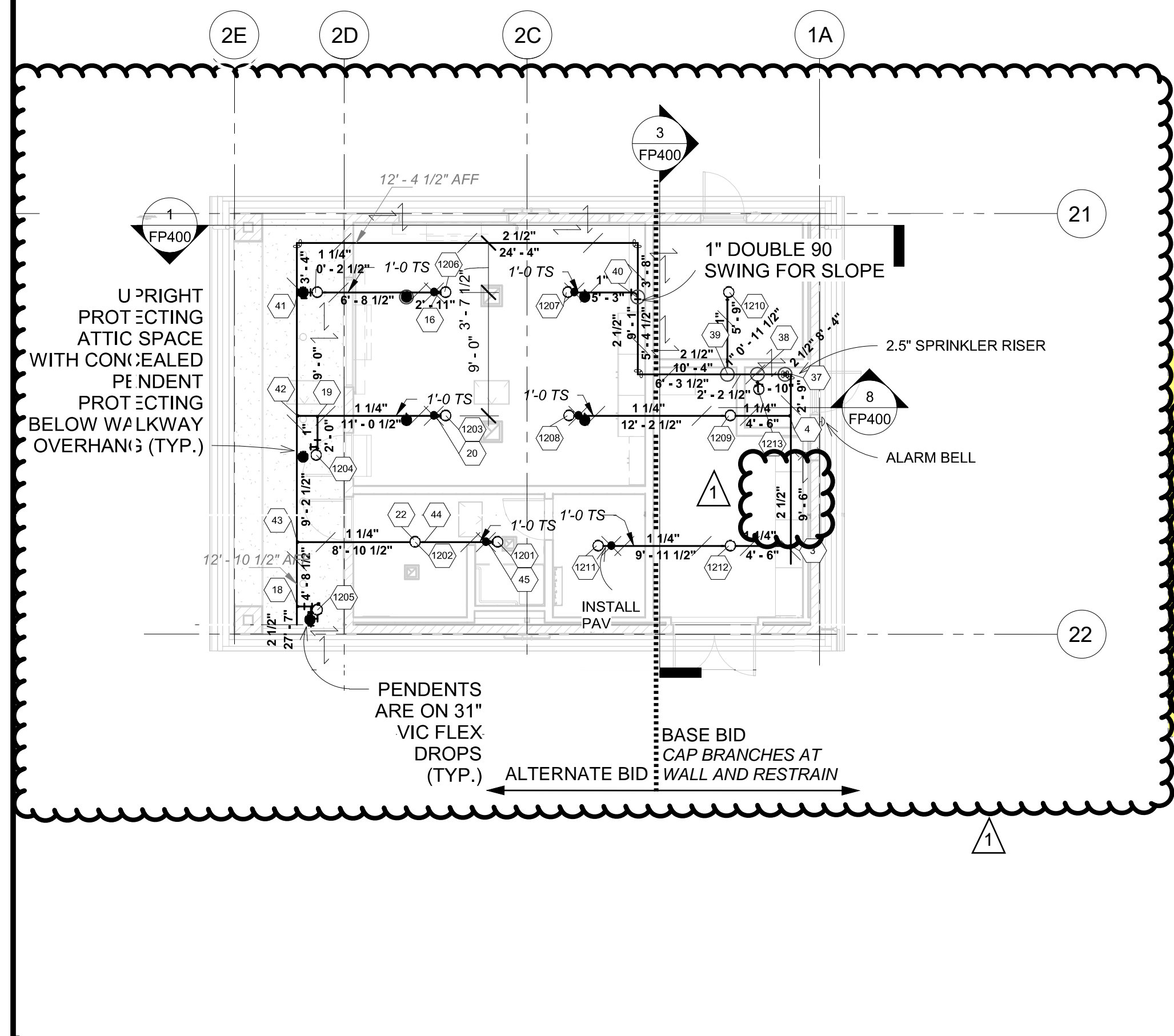
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- SYMBOLS LEGEND**
- PIPE DIAMETER, CUT LENGTH, AND SECTION LENGTHS
 - PIPE DIAMETER AND CUT LENGTH
 - PIPE HANGER
 - PIPE CHANGE IN ELEVATION
 - LATERAL SWAY BRACE
 - LONGITUDINAL SWAY BRACE
 - 4-WAY SWAY BRACE
 - FLEX DROP
 - HYDRAULIC NODE
 - ALARM BELL
 - BRANCHLINE RESTRAINT
 - BUILDING SEISMIC SEPARATION
 - PIPE HANGER - STEEL

DSA File No.: _____
 DSA Application No.: _____
 Agency Approval _____

• SPRINKLERS IN POOL EQUIPMENT, CHLORINE, AND ACID SPACES SHALL ALL BE CORROSION RESISTANT



GENERAL NOTES

1. All Unistruts shall have the Unistrut Defender Finish.
2. All Rods, Nuts and Screws shall be stainless steel.

NET POSITIVE
consulting engineers
www.NPENG.com
project no. 1101

Consultant

Mission Oaks HS Aquatic Complex
 Tulare Joint Union High School District
 Tulare, CA 93274

Project

FIRE PROTECTION - PIPING PLANS
 Drawing

darden ARCHITECTURE
 PLANNING
 INTERIORS
 www.dardenarchitects.com
 6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051

Architect

No.	Revision/Submission	Date
1	REVISION_01	05/31/2023

Revision	
Designed By: WC	Copyright 2022 Darden Architects
Scale: 1/8" = 1'-0"	Drawn By: CC
Project Number: 2180	Checked/Checker
Date: 01/20/2023	Reviewed By DSA

FP100

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 Mission Oaks Aquatic Center2 - Submittals\Drawings\22-014 - Mission Oaks Aquatic Ctr - FP - R1.rvt

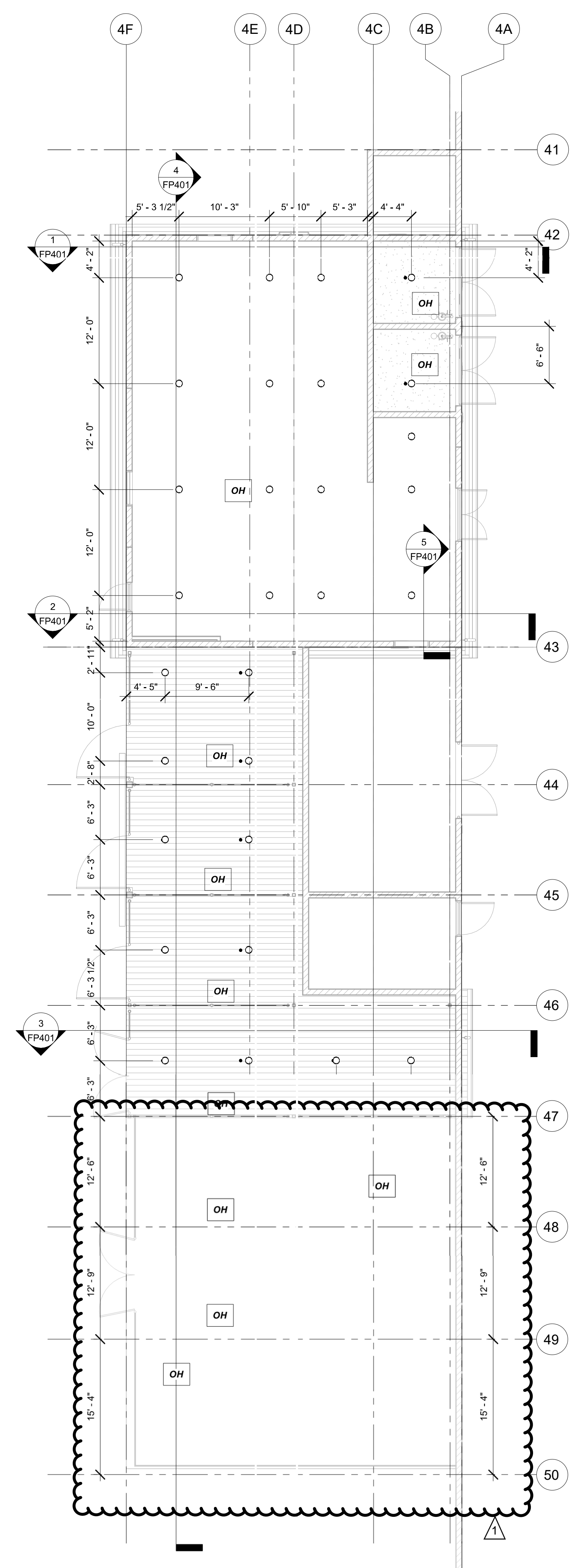
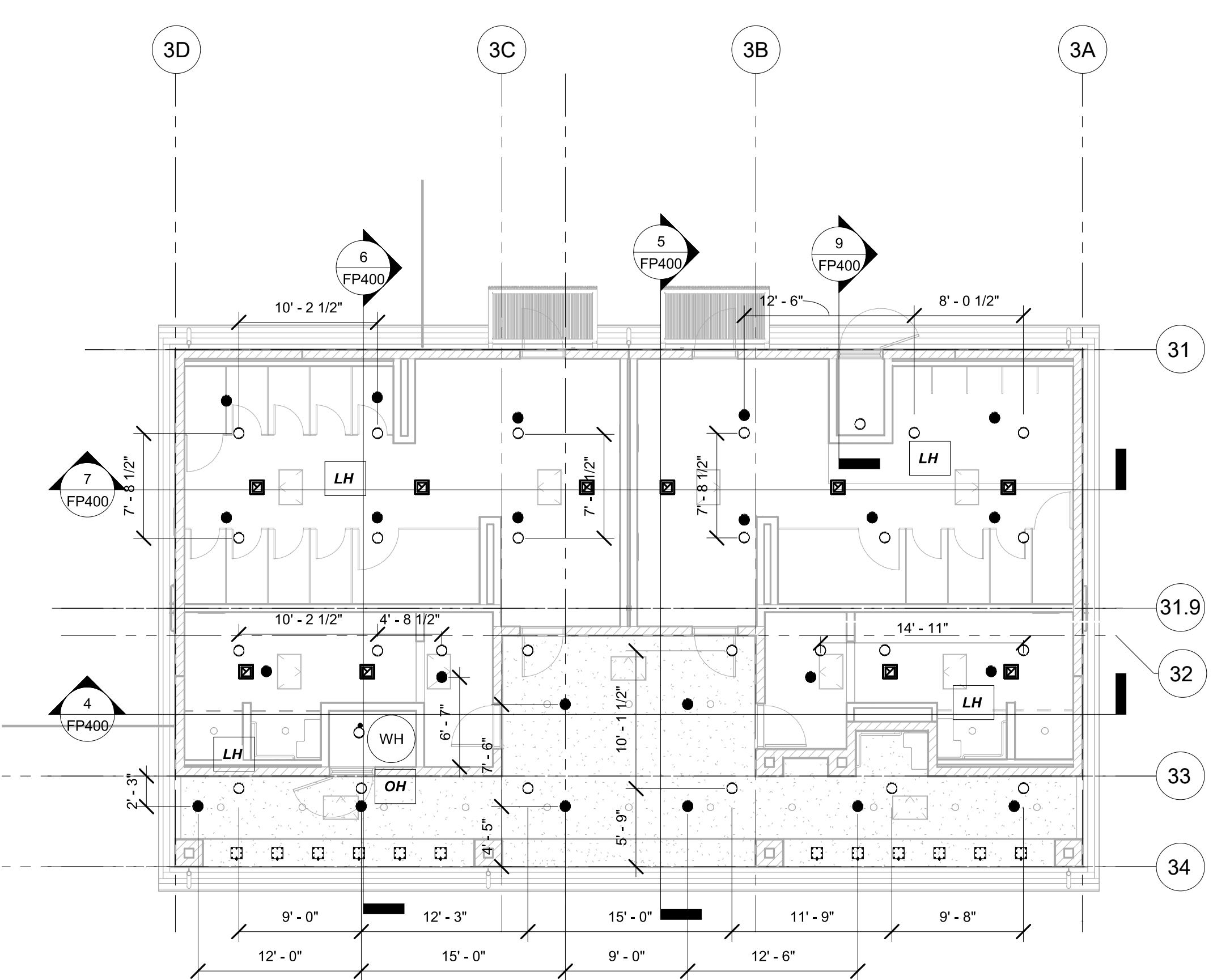
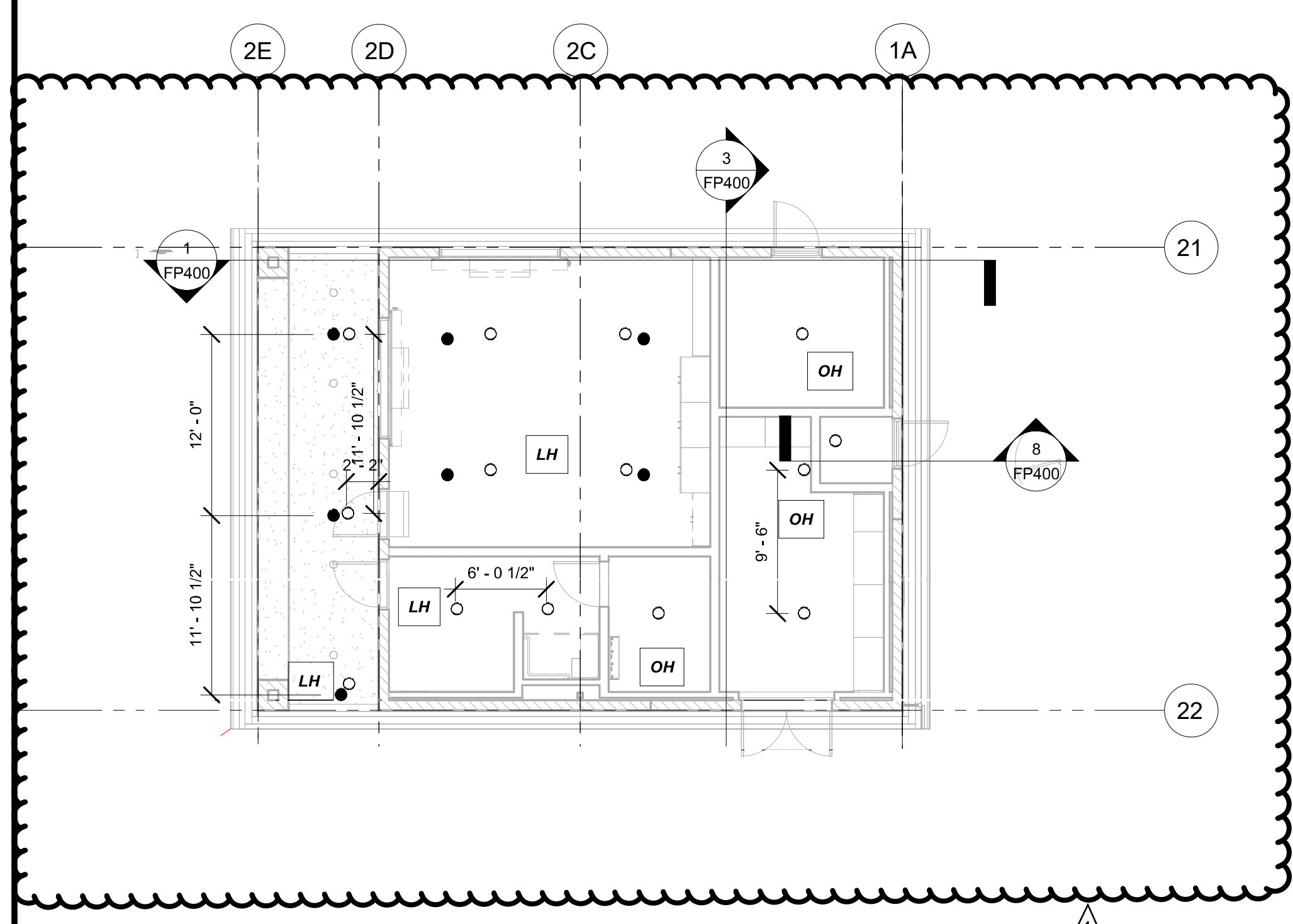
SYMBOLS LEGEND

- PIPE DIAMETER, CUT LENGTH, AND SECTION LENGTHS
- PIPE DIAMETER AND CUT LENGTH
- PIPE HANGER
- PIPE CHANGE IN ELEVATION
- LATERAL SWAY BRACE
- LONGITUDINAL SWAY BRACE
- 4-WAY SWAY BRACE
- FLEX DROP
- HYDRAULIC NODE
- ALARM BELL
- BRANCHLINE RESTRAINT
- BUILDING SEISMIC SEPARATION
- PIPE HANGER - STEEL

SPRINKLER SCHEDULE								
Sprinkler Symbol	Count	Manufacturer	Model	Orifice Size	K-Factor	Temperature Rating	Sprinkler Orientation	Finish
○	14	VICTAULIC Inc.	V2704	1/2"	5.6	200 °F	Upright	Brass
●	7	VICTAULIC Inc.	V3802	1/2"	5.6	155 °F	Pendent	White

SPRINKLER SCHEDULE								
Sprinkler Symbol	Count	Manufacturer	Model	Orifice Size	K-Factor	Temperature Rating	Sprinkler Orientation	Finish
○	28	VICTAULIC Inc.	V2704	1/2"	5.6	200 °F	Upright	Brass
●	23	VICTAULIC Inc.	V3802	1/2"	5.6	155 °F	Pendent	White

SPRINKLER SCHEDULE								
Sprinkler Symbol	Count	Manufacturer	Model	Orifice Size	K-Factor	Temperature Rating	Sprinkler Orientation	Finish
○	29	VICTAULIC Inc.	V2704	1/2"	5.6	200 °F	Upright	Brass



DSA File No.: _____
 DSA Application No.: _____
 Agency Approval: _____

GENERAL NOTES

1. All Unistruts shall have the Unistrut Defender Finish.
2. All Rods, Nuts and Screws shall be stainless steel.

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consulting
engineers

www.NPCEng.com
project no. 1101

Consultant

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 Tulare Joint Union High School District
 Tulare, CA 93274

FIRE PROTECTION - REFLECTED CEILING PLANS
 Drawing

ARCHITECTURE
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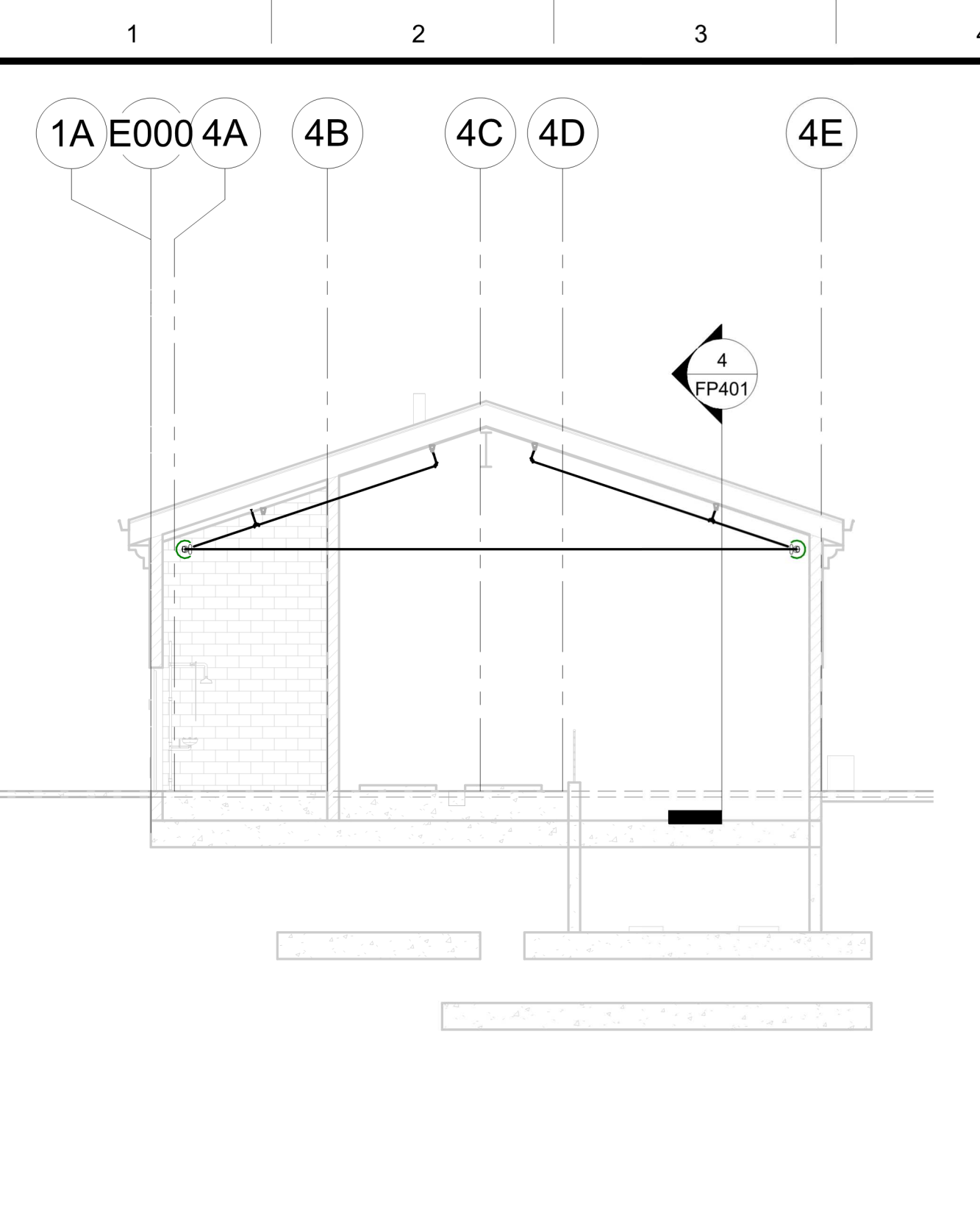
Architect

No.	Revision/Submission	Date
REVISION_01		05/31/2023
Revision		
Designed By: WC		Copyright © 2022 Darden Architects
Scale: 1/8" = 1'-0"	Drawn By: CC	FP200
Project Number: 2180	Checked By: NP	
Date: 01/20/2023	Reviewed By: DSA	

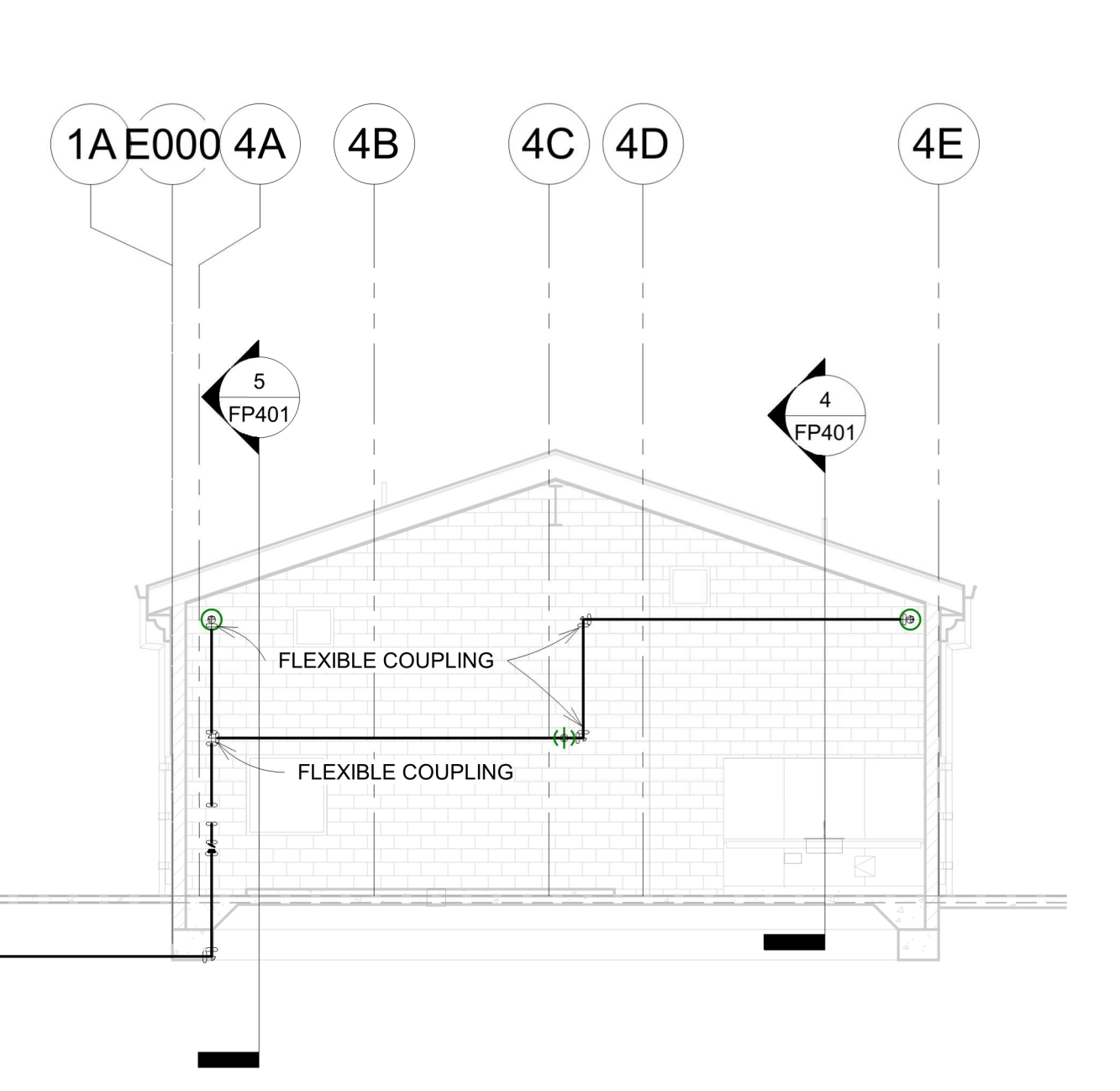
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CONSTRUCTION SET

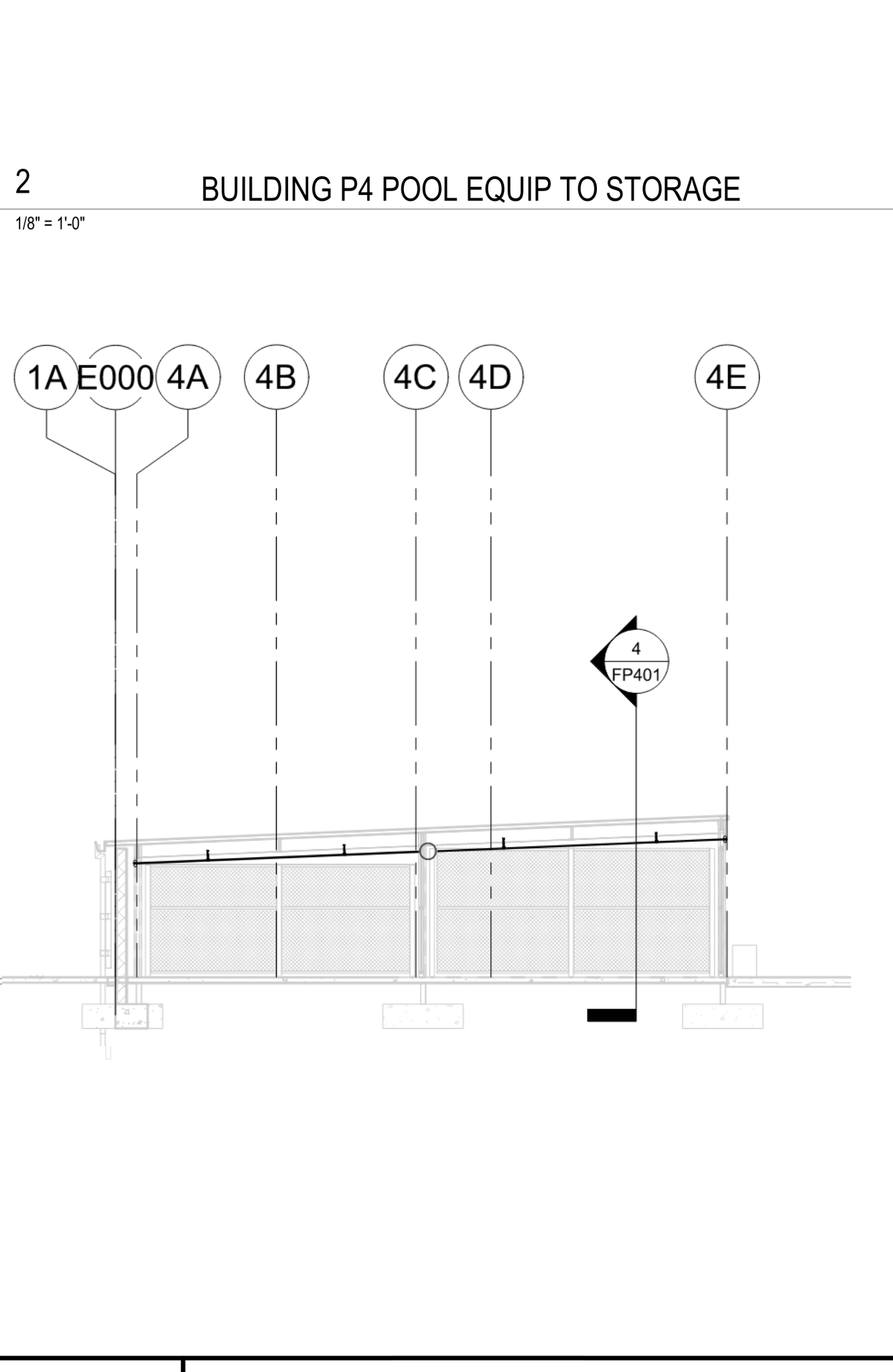
APPROVED
 DIV. OF THE STATE ARCHITECTS
 APP: 02-190251, INC.
 REVIEWED FOR
 SS ID: FLS ID: ACS ID
 DATE: 08/28/2023



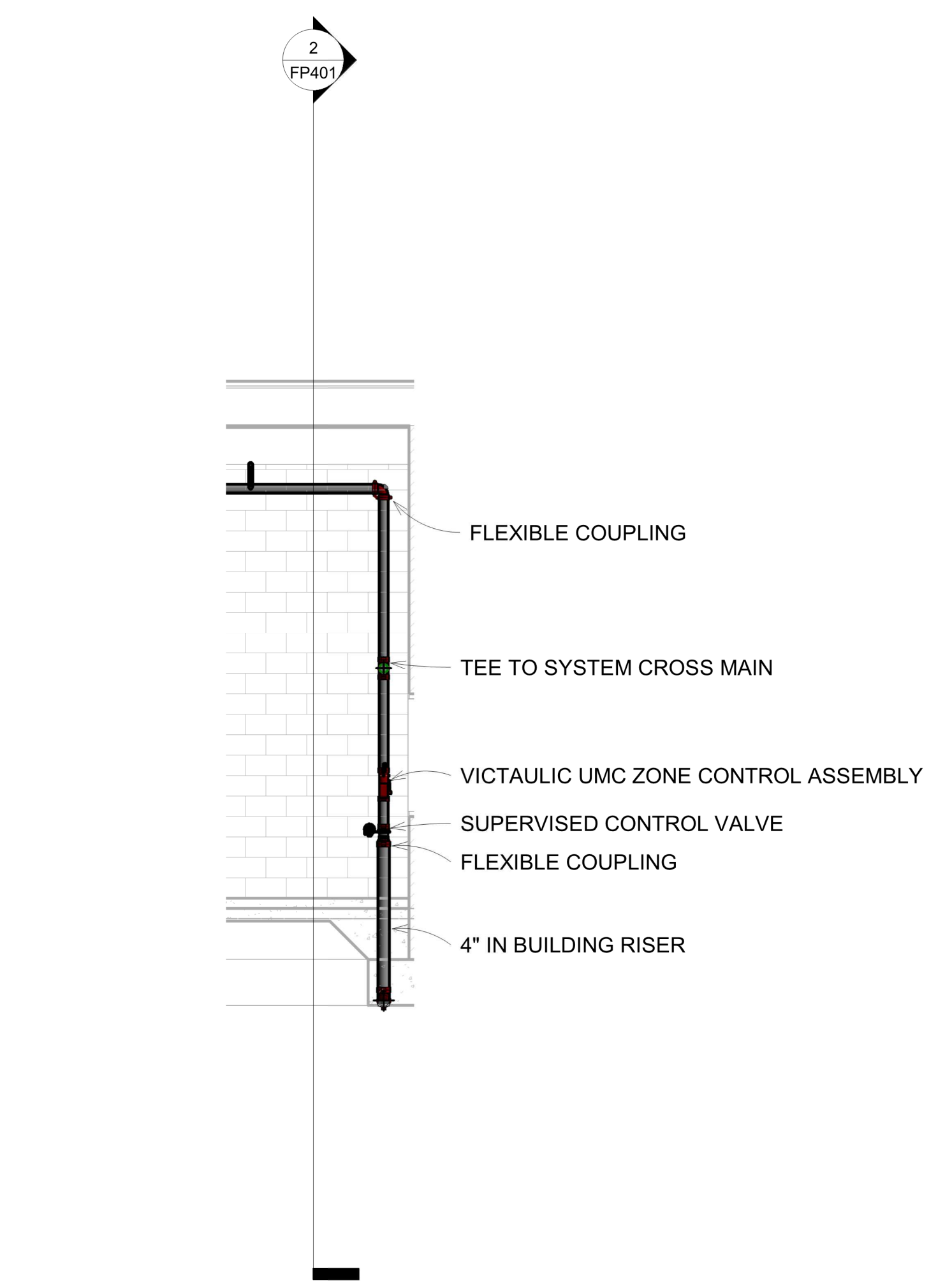
1 BUILDING P4 NORTH POOL EQUIPMENT
 1/8" = 1'-0"



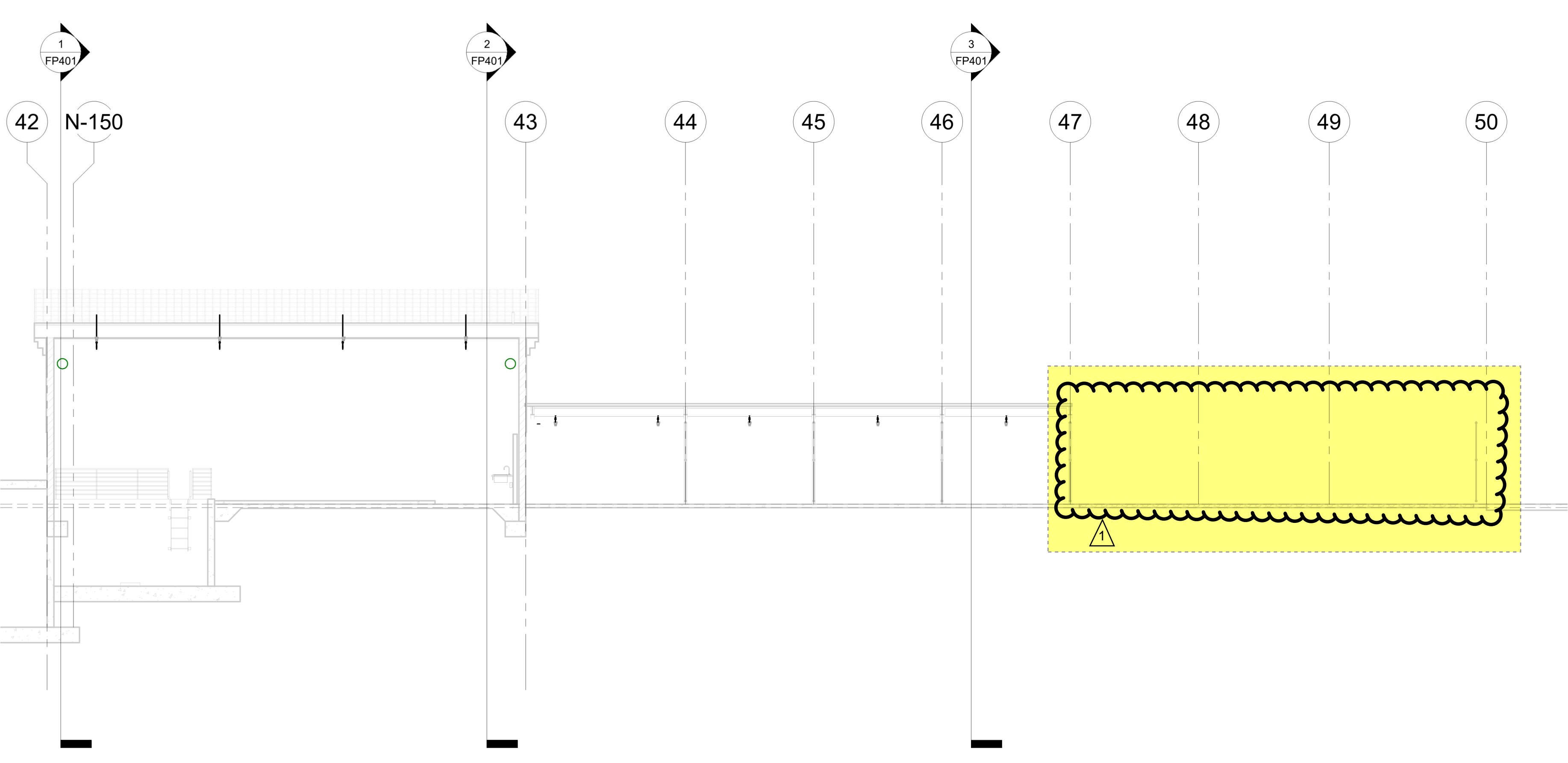
2 BUILDING P4 POOL EQUIP TO STORAGE
 1/8" = 1'-0"



3 BUILDING P4 STORAGE
 1/8" = 1'-0"



5 BUILDING P4 RISER
 1/4" = 1'-0"



4 BUILDING P4 WEST STORAGE
 1/8" = 1'-0"

DSA File No.:

DSA Application No.:

Agency Approval

GENERAL NOTES

- All Unistruts shall have the Unistrut Defender Finish.
- All Rods, Nuts and Screws shall be stainless steel.

General Notes

NET POSITIVE
 consulting
 engineers
 www.npceng.com
 project no. 1101

Consultant

Mission Oaks HS Aquatic Complex
 Tulare Joint Union High School District
 Tulare, CA 93274

Project

FIRE PROTECTION - BLDG. P4 SECTION VIEWS
 Drawing

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Architect

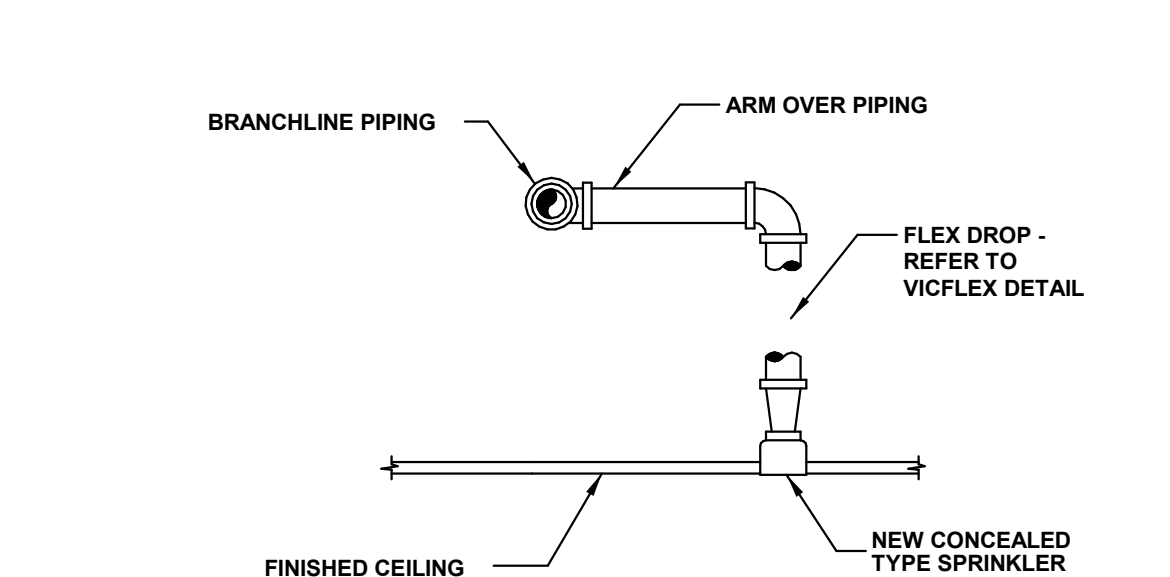
No.	Revision/Submission	Date

Revision

Designed By: WC
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 Scale: As indicated
 Drawn By: CC
 Project Number: 2180
 Checked By: NP
 Date: 01/20/2023
 Reviewed By: DSA

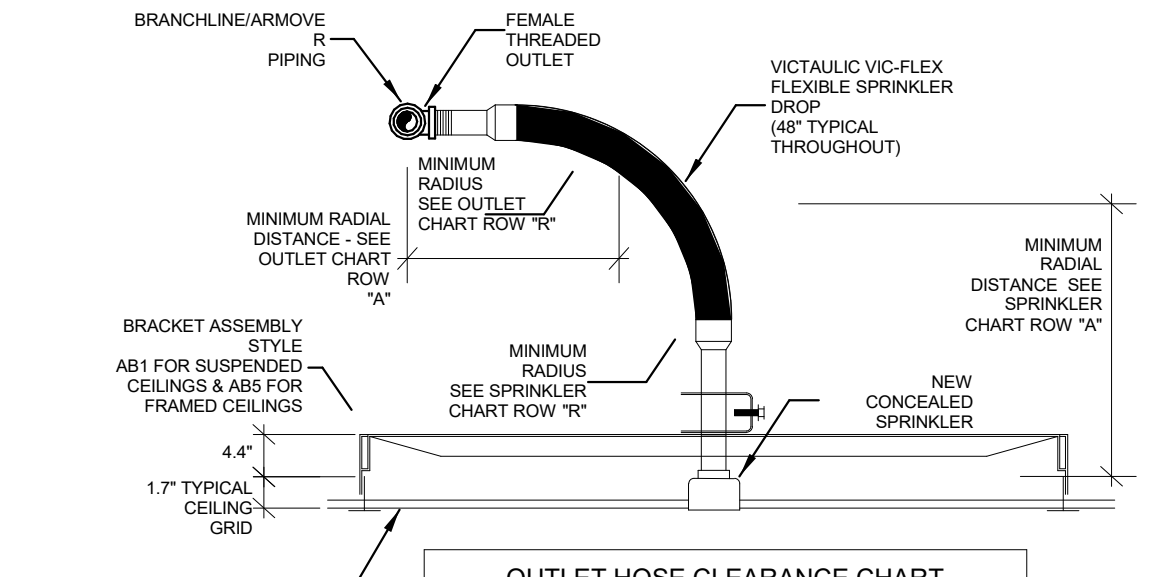
FP401

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 Darden - Mission Oaks High School Aquatics Center\07 - INBOX\2023-06-02 - Fire Sprinkler
 Revision\2023-06-02 - Mission Oaks Aquatic Ctr. - FP - RI.rvt



TYPICAL PENDANT SPRINKLER HEAD INSTALLATION DETAIL
N.T.S.

ALL PENDENT AND CONCEALED PENDENTS ON PROJECT SHALL BE INSTALLED USING 31" VIC FLEX FLEXIBLE SPRINKLER DROPS.



OUTLET HOSE CLEARANCE CHART

DIMENSIONS	INCHES	INCHES	INCHES	INCHES	INCHES
R MINIMUM BEND RADIUS	3	4	5	6	7
A MINIMUM	9.4	10.4	11.4	12.4	13.4

SPRINKLER HOSE CLEARANCE CHART

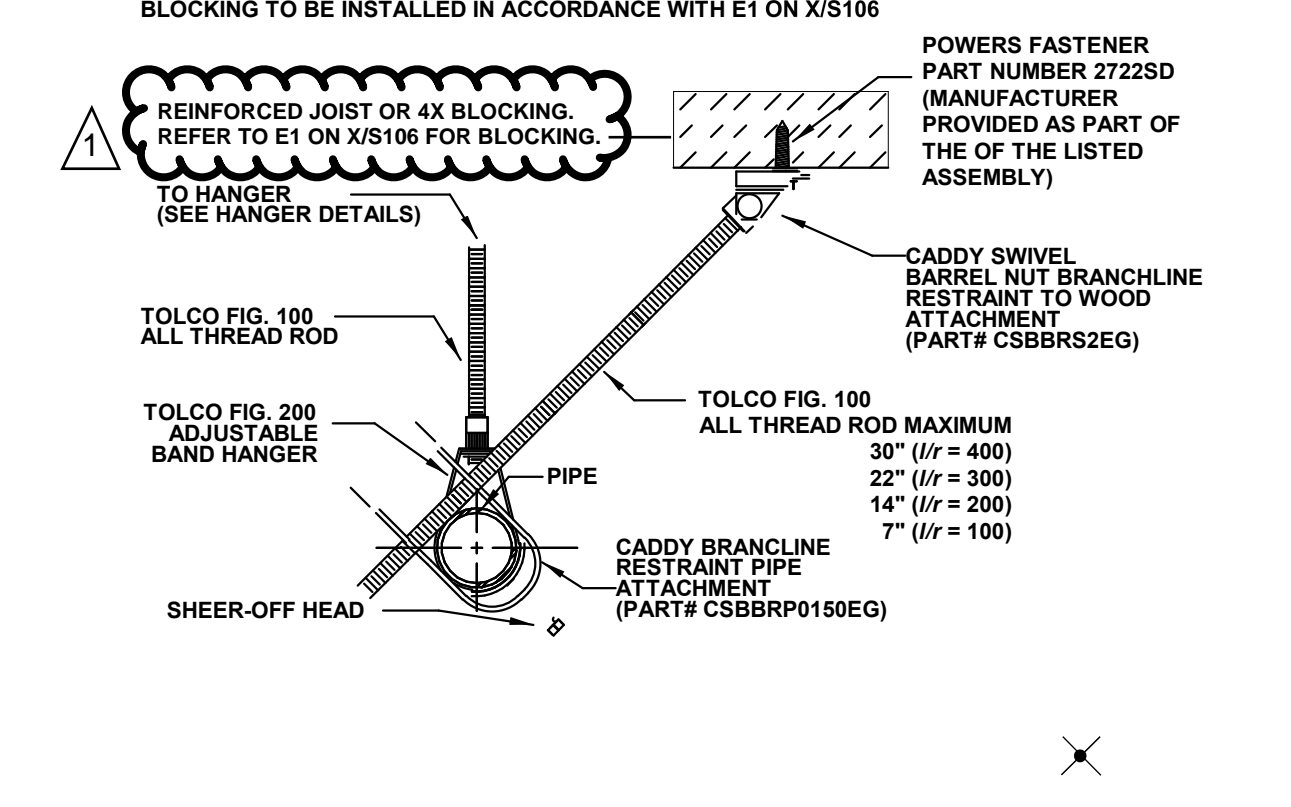
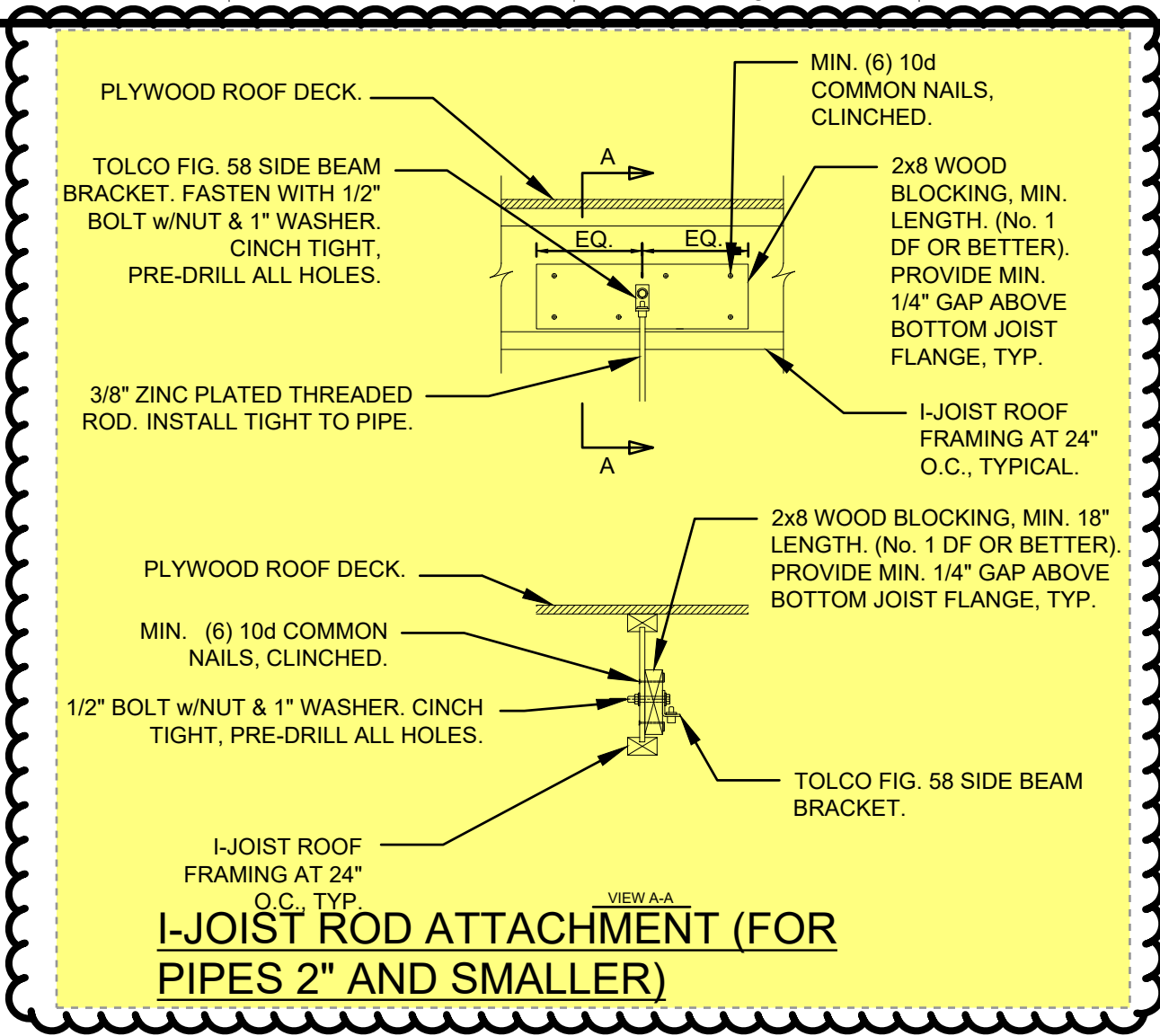
DIMENSIONS	INCHES	INCHES	INCHES	INCHES	INCHES
R MINIMUM BEND RADIUS	2	3	4	5	7
A MINIMUM	10.1	11.1	12.1	13.1	14.1

CAUTION

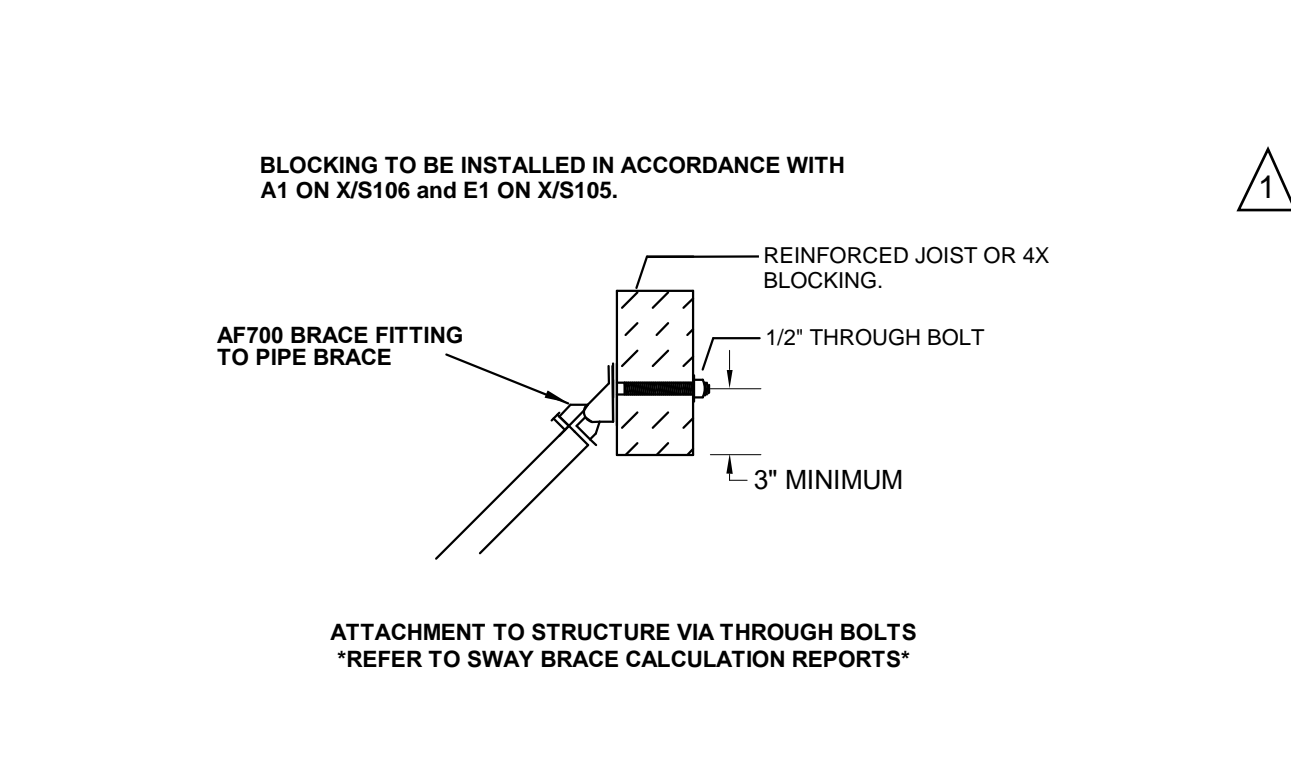
RELOCATION OF THIS DEVICE SHOULD ONLY BE PERFORMED BY QUALIFIED AND/OR LICENSED INDIVIDUALS THAT ARE AWARE OF THE ORIGINAL SYSTEM DESIGN CRITERIA, HYDRAULIC CRITERIA, SPRINKLER HEAD LISTING PARAMETERS, AND KNOWLEDGE OF THE STATE AND LOCAL CODES INCLUDING NFPA 13 INSTALLATION STANDARDS. RELOCATION OF THE DEVICE WITHOUT THIS KNOWLEDGE COULD ADVERSELY AFFECT THE PERFORMANCE OF THE FIRE PROTECTION AND LIFE SAFETY SYSTEM.

TO BE INSTALLED ON ALL FLEX DROP ANCHORS. SIMILAR VERBAGE FROM MANUFACTURER, NFPA OR OTHER SOURCE IS ACCEPTABLE. STICKER MUST BE LARGE ENOUGH TO BE LEGIBLE WHILE STILL FITTING ON BRACKET STANCHIONS.

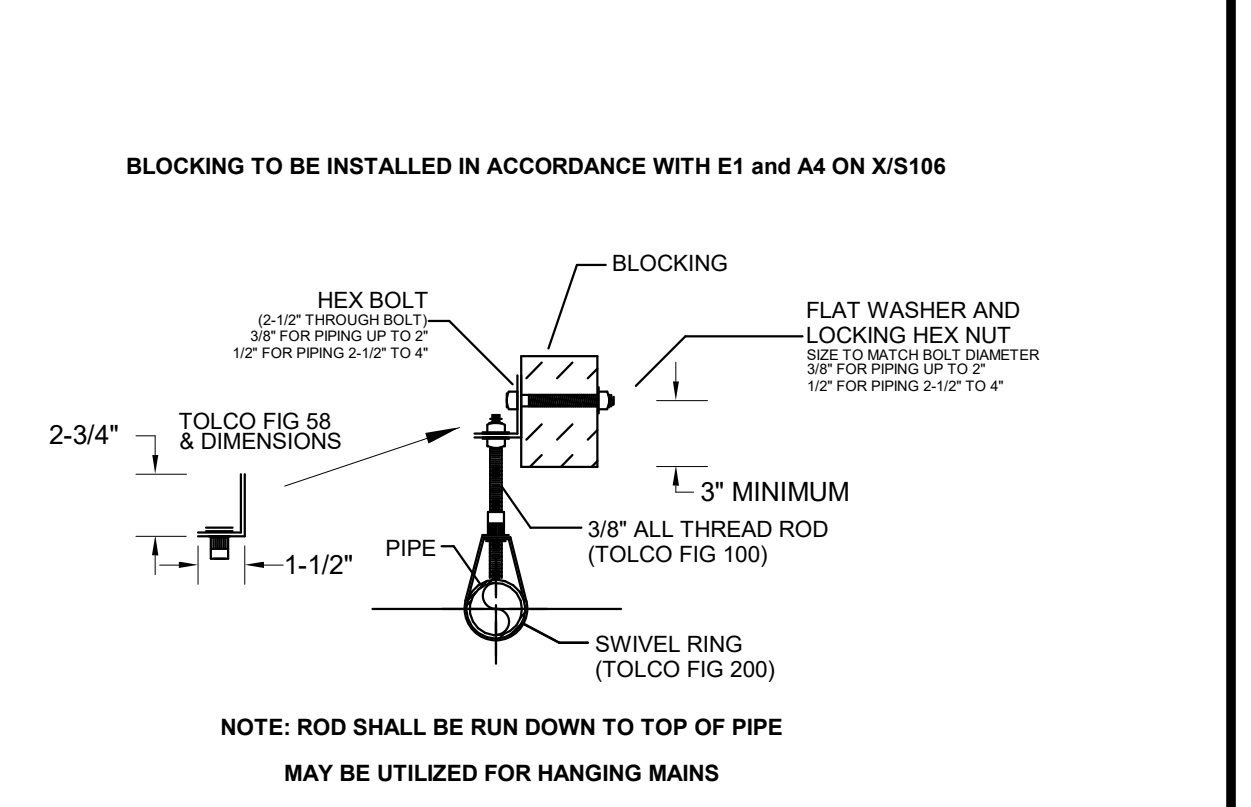
VIC-FLEX LABEL DETAIL
N.T.S.



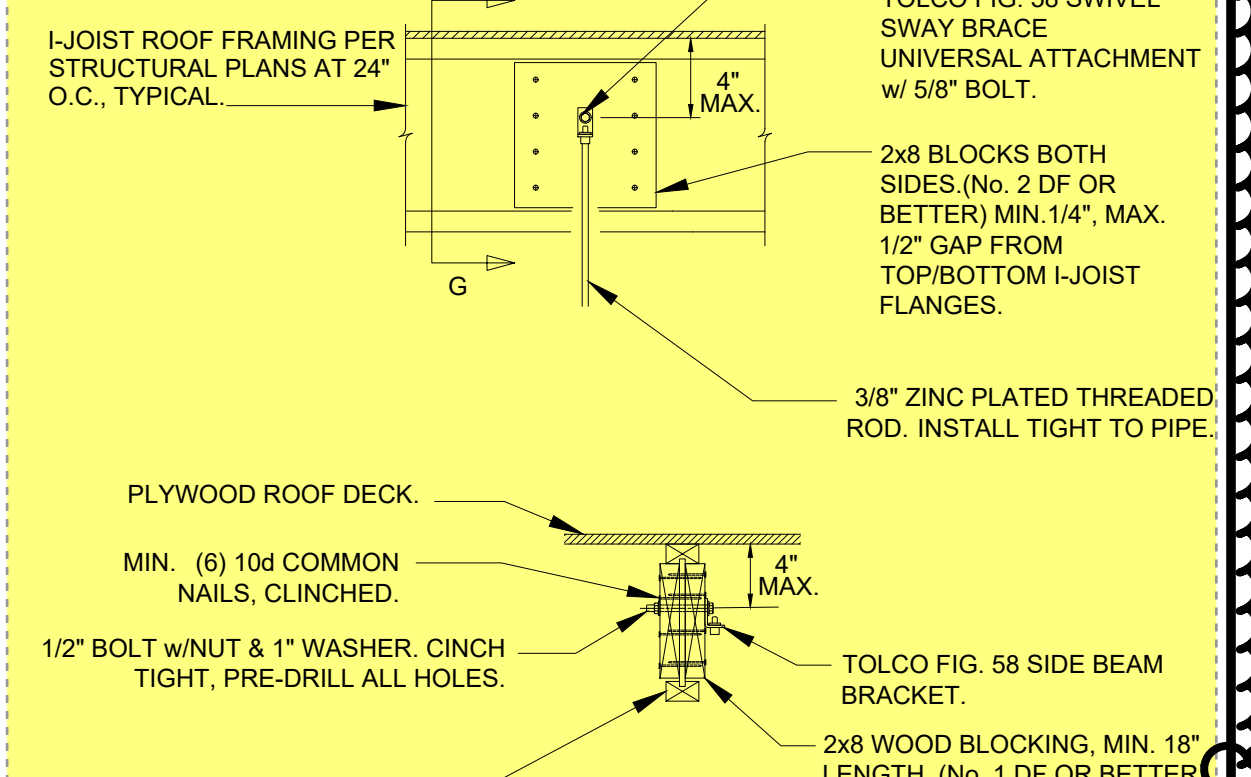
CADDY BRANCHLINE RESTRAINT SYSTEM TO STEEL DETAIL
N.T.S.



CADDY BRANCHLINE RESTRAINT SYSTEM TO WOOD STRUCTURE DETAIL
N.T.S.

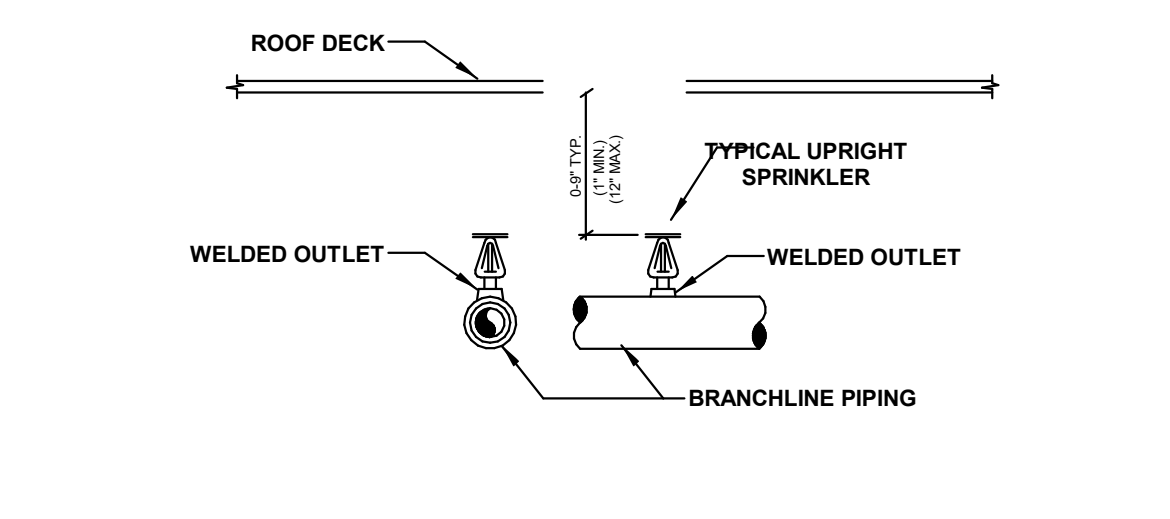


TOLCO FIG 58 THREADED SIDE BEAM BRACKET
N.T.S.

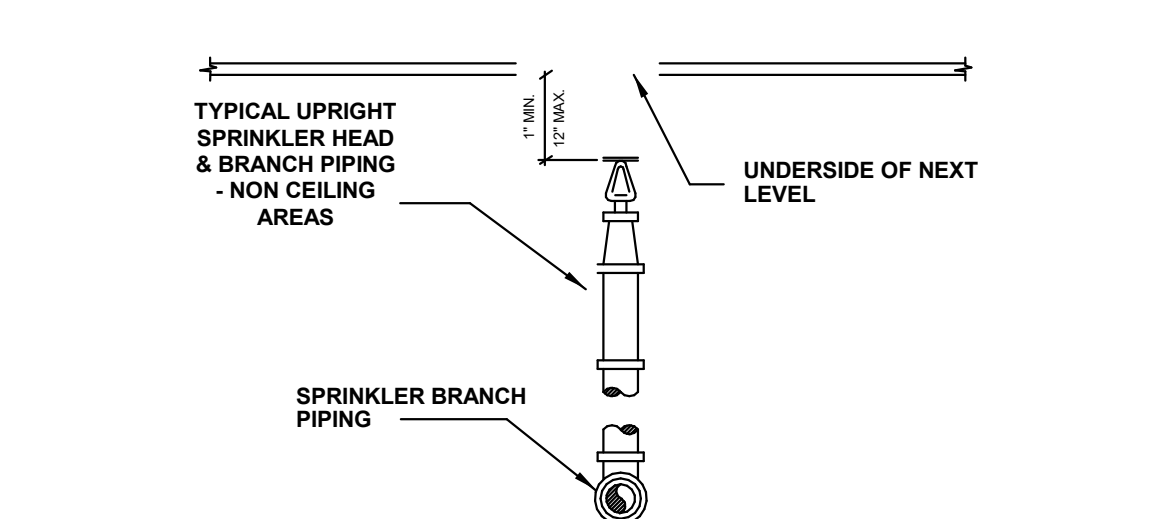


I-JOIST ROD ATTACHMENT (FOR PIPES 4" AND SMALLER)
N.T.S.

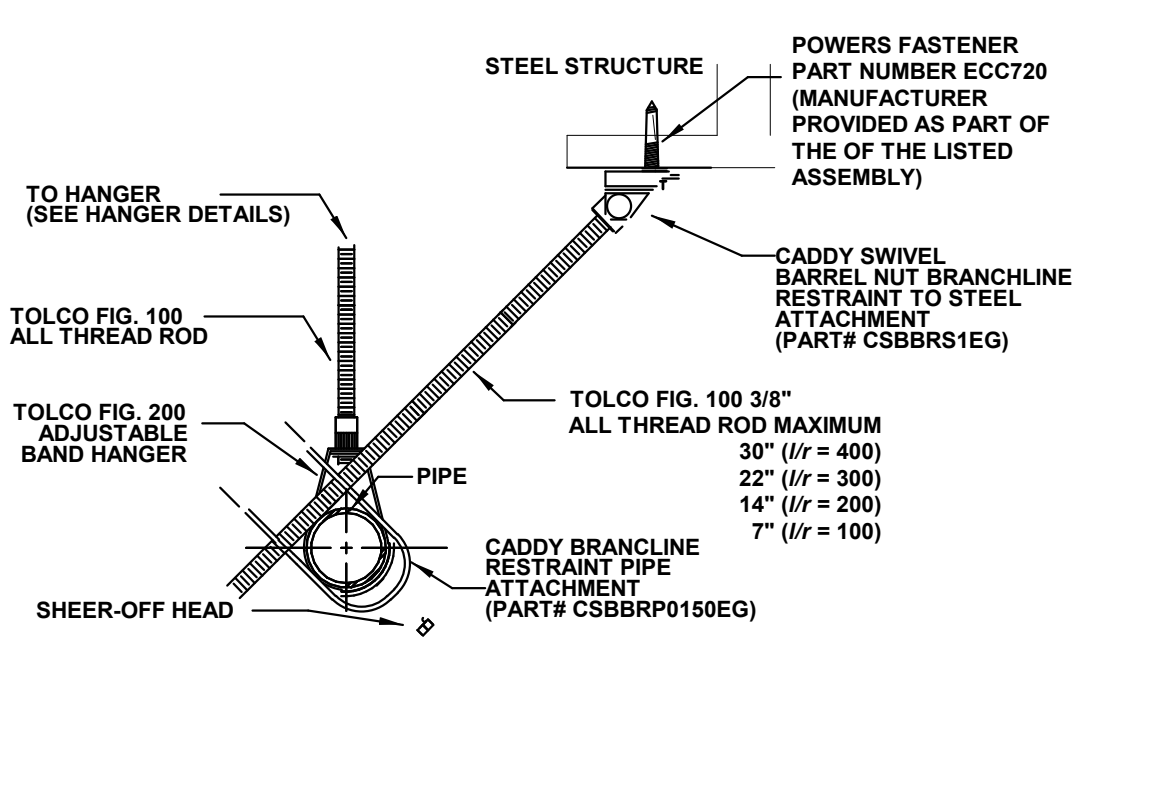
DSA File No.:
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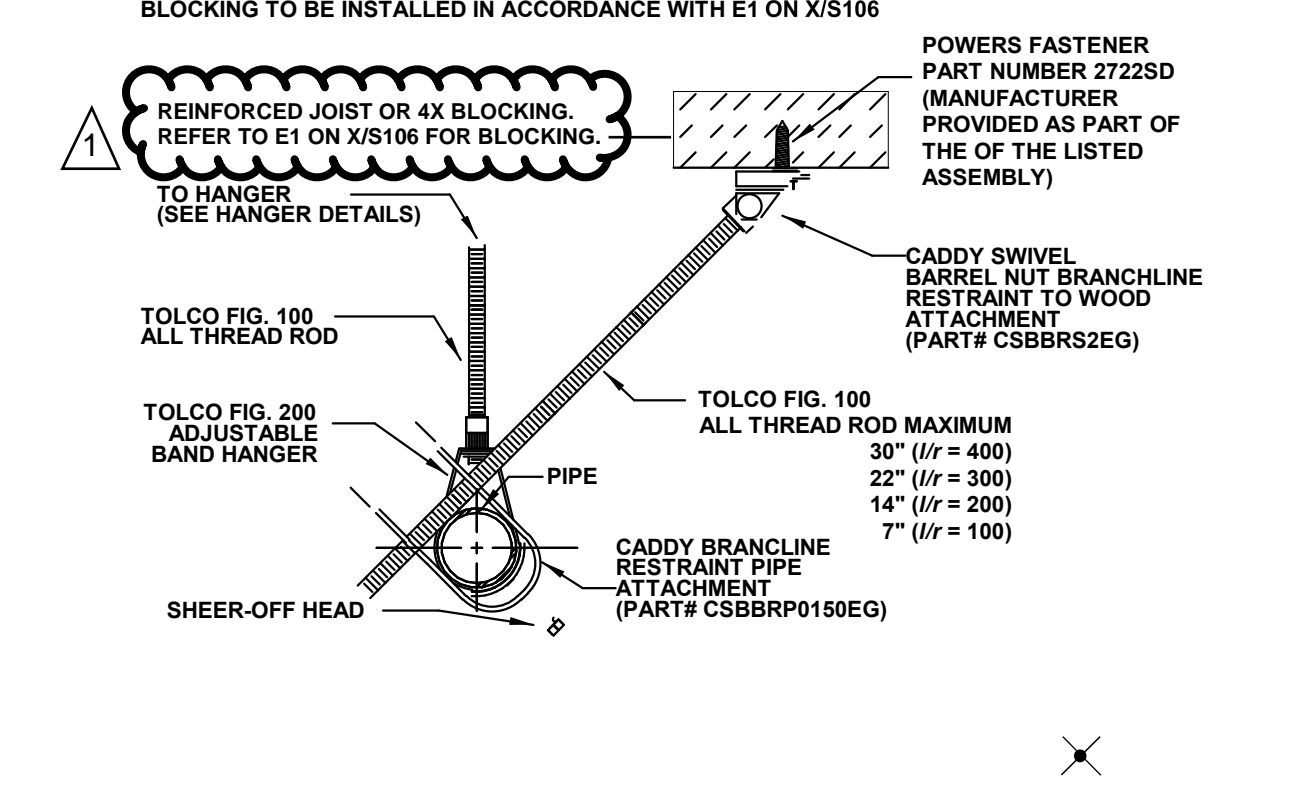
UPRIGHT SPRINKLER ON BRANCHLINE DETAIL
N.T.S.



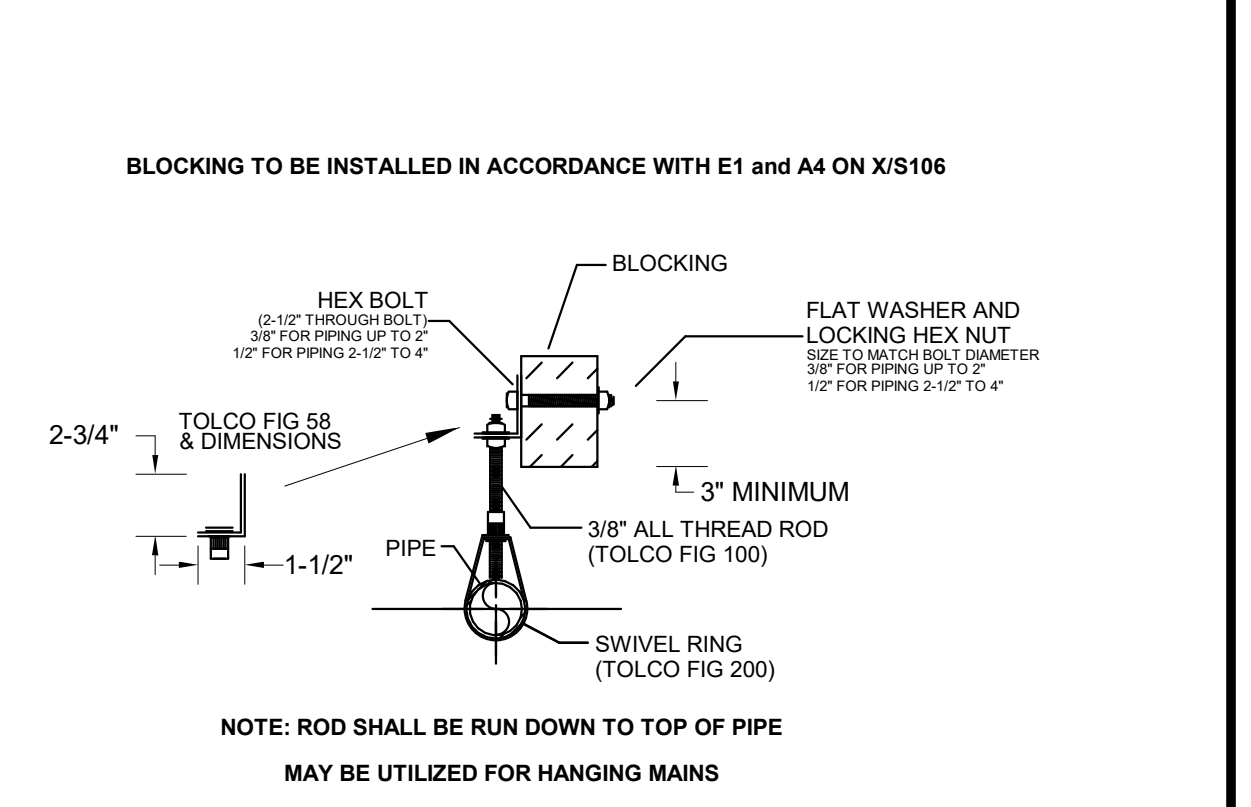
TYPICAL UPRIGHT SPRINKLER INSTALLATION DETAIL
N.T.S.



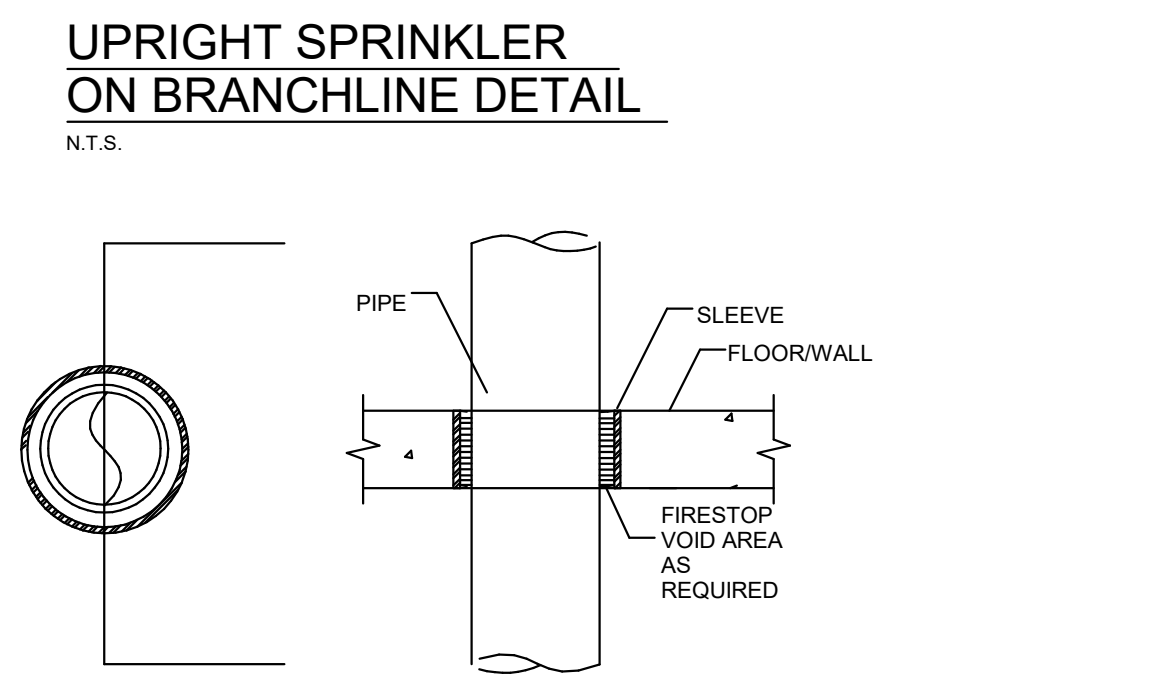
BUILDING SEISMIC SEPARATION
N.T.S.



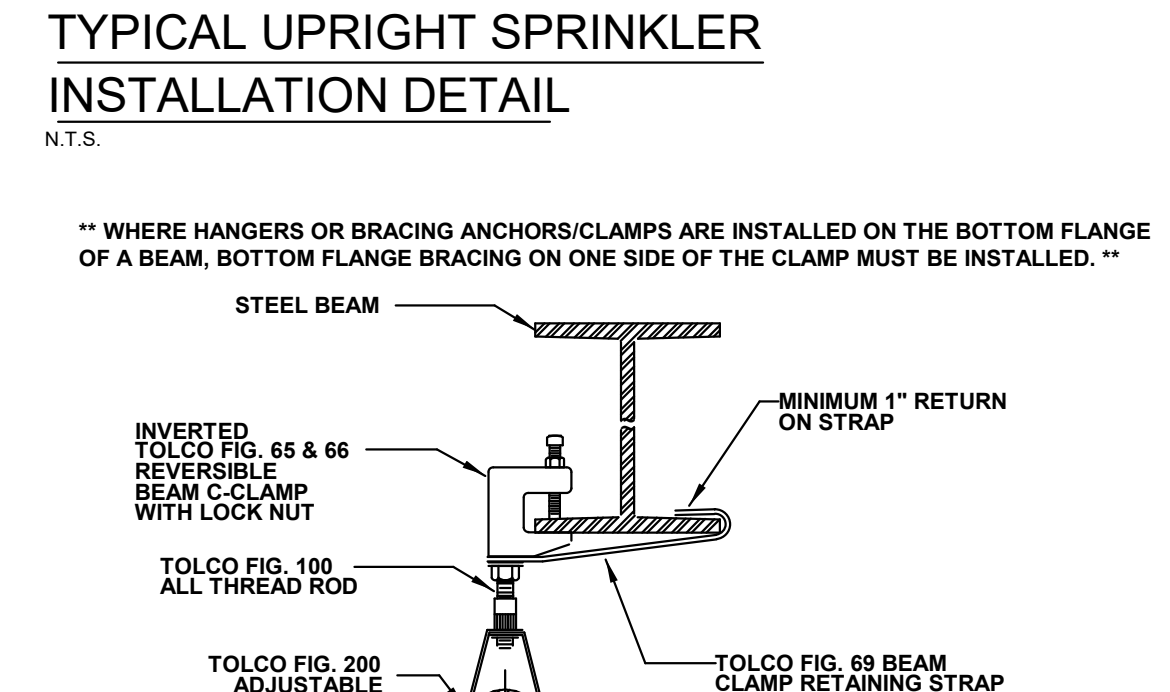
SWAY BRACE ATTACHMENT TO STRUCTURE
N.T.S.



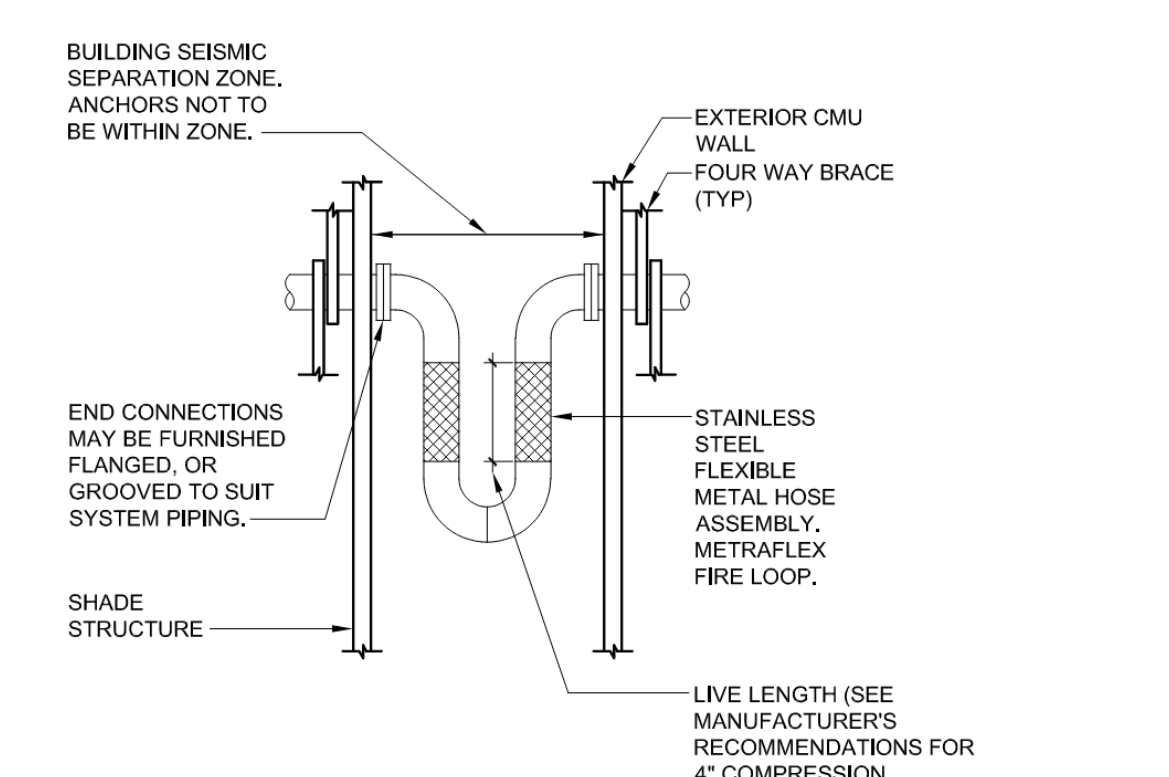
TOLCO FIG 58 SWIVEL SWAY BRACE UNIVERSAL ATTACHMENT w/ 5/8" BOLT
N.T.S.



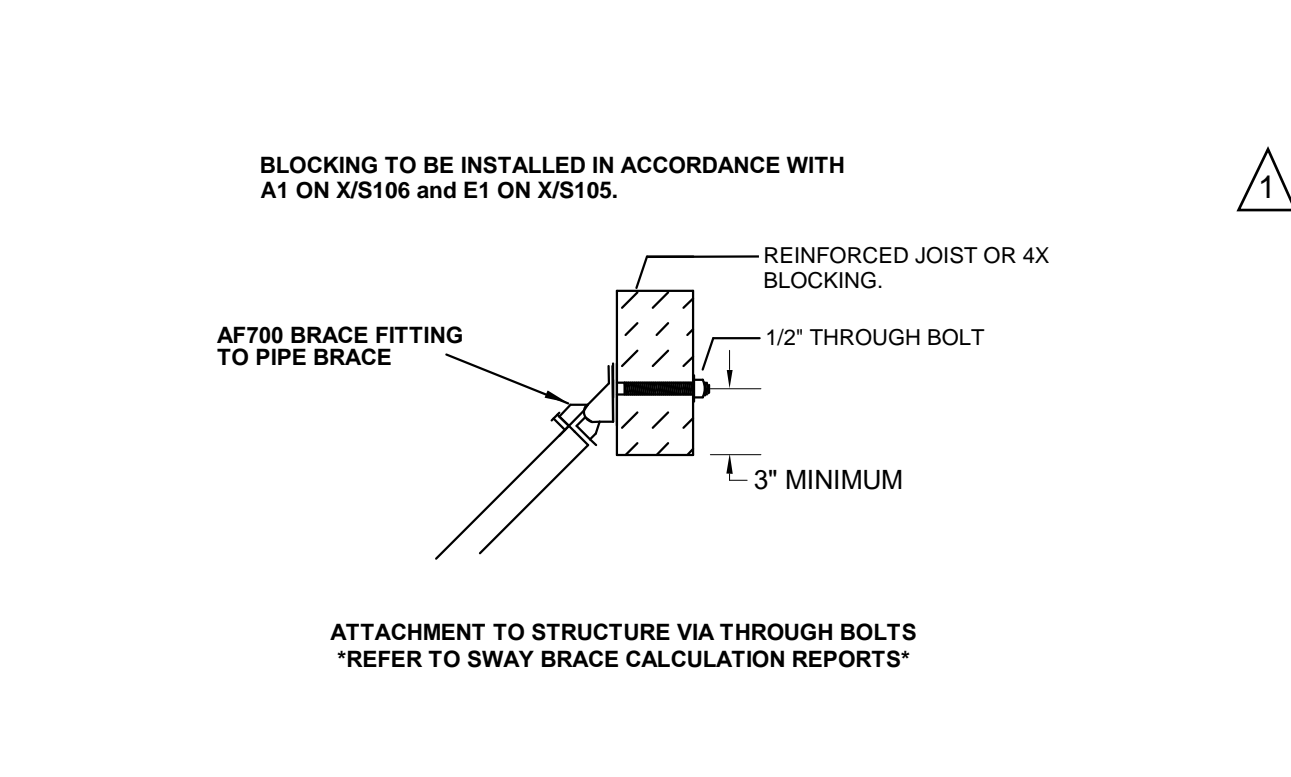
TYPICAL SLEEVE PENETRATION INSTALLATION DETAIL AND REQUIREMENTS
N.T.S.



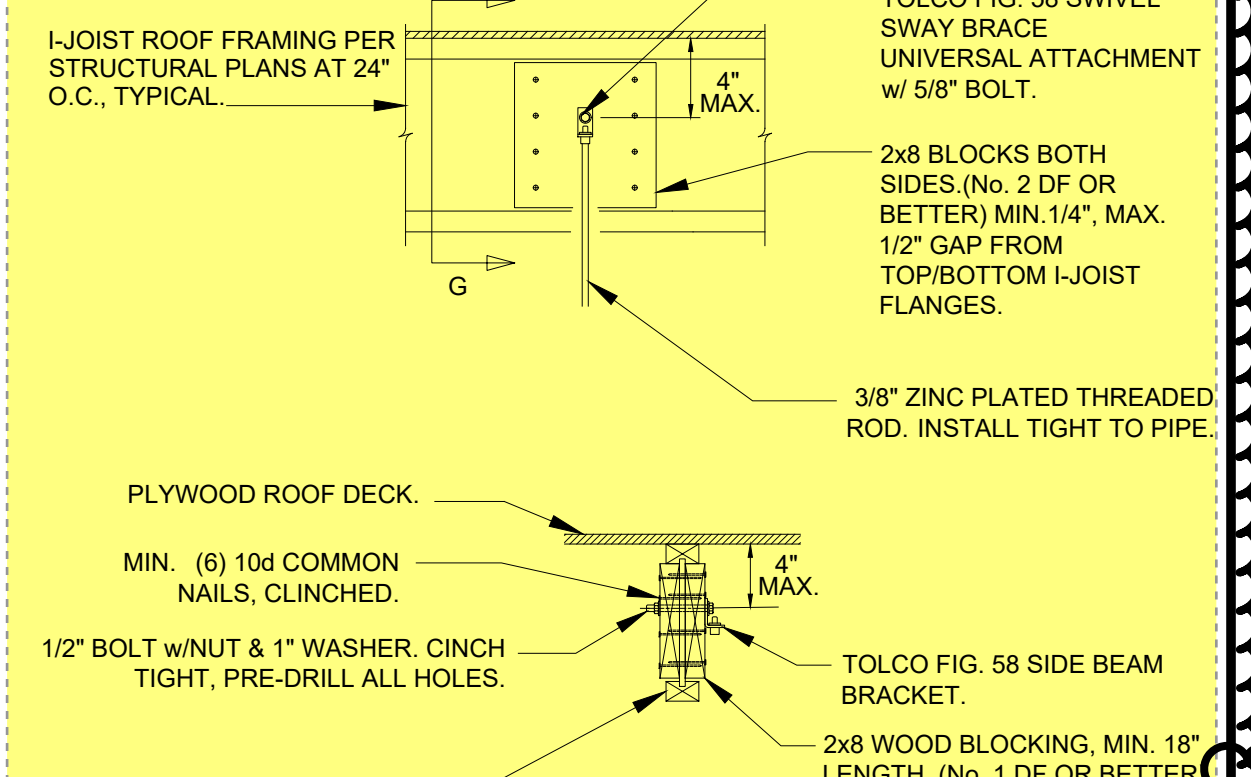
REVERSIBLE BEAM C-CLAMP WITH RETAINING STRAP (BEAM)
N.T.S.



BUILDING SEISMIC SEPARATION
N.T.S.



SWAY BRACE ATTACHMENT TO STRUCTURE
N.T.S.



TOLCO FIG 58 SWIVEL SWAY BRACE UNIVERSAL ATTACHMENT w/ 5/8" BOLT
N.T.S.

GENERAL NOTES

- All Unistruts shall have the Unistrut Defender Finish.
- All Rods, Nuts and Screws shall be stainless steel.

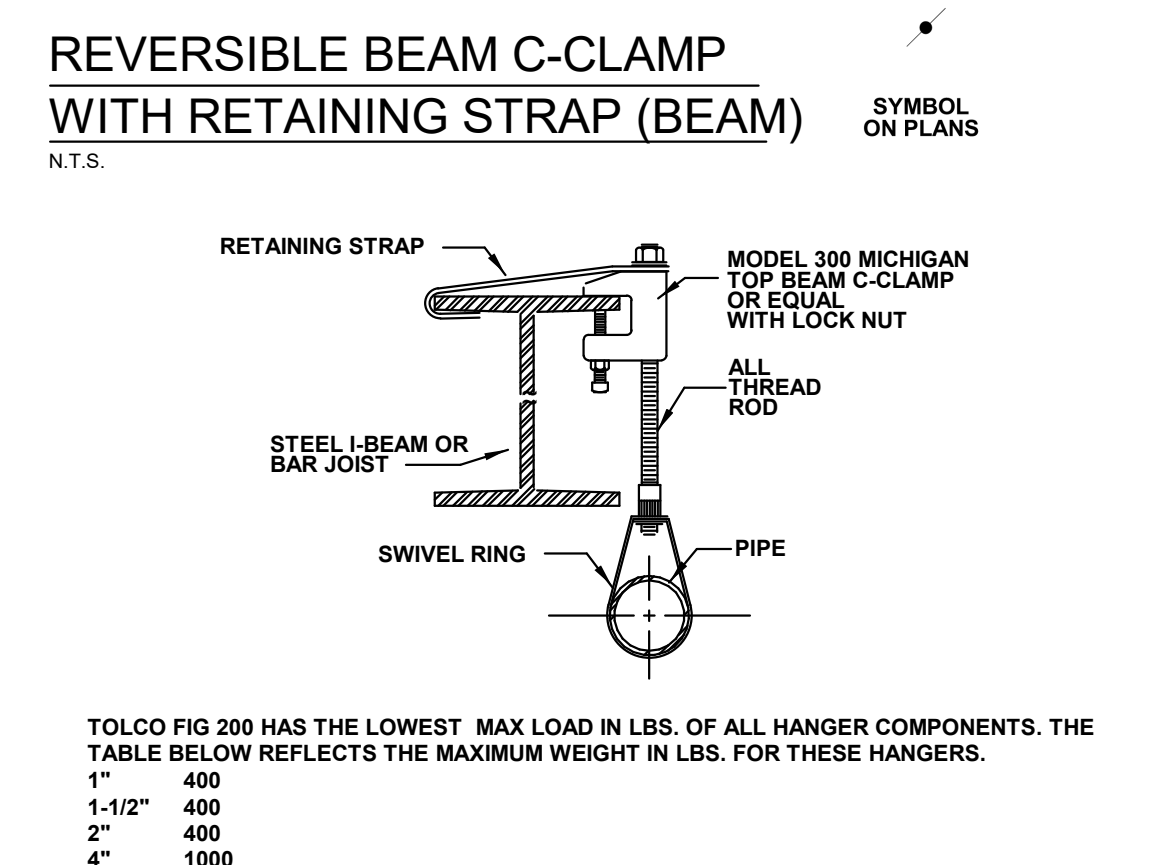
WET SYSTEM RISER SHALL BE A VICTUALIC UMC RISER CONTROL ASSEMBLY WITH 705W SUPERVISED CONTROL VALVE.

FDC IS A REMOTE FREE STANDING FDC CONNECTED TO UNDERGROUND FIRE SERVICE. FDC SHALL BE LOCATED IMMEDIATELY AFTER DDCA.

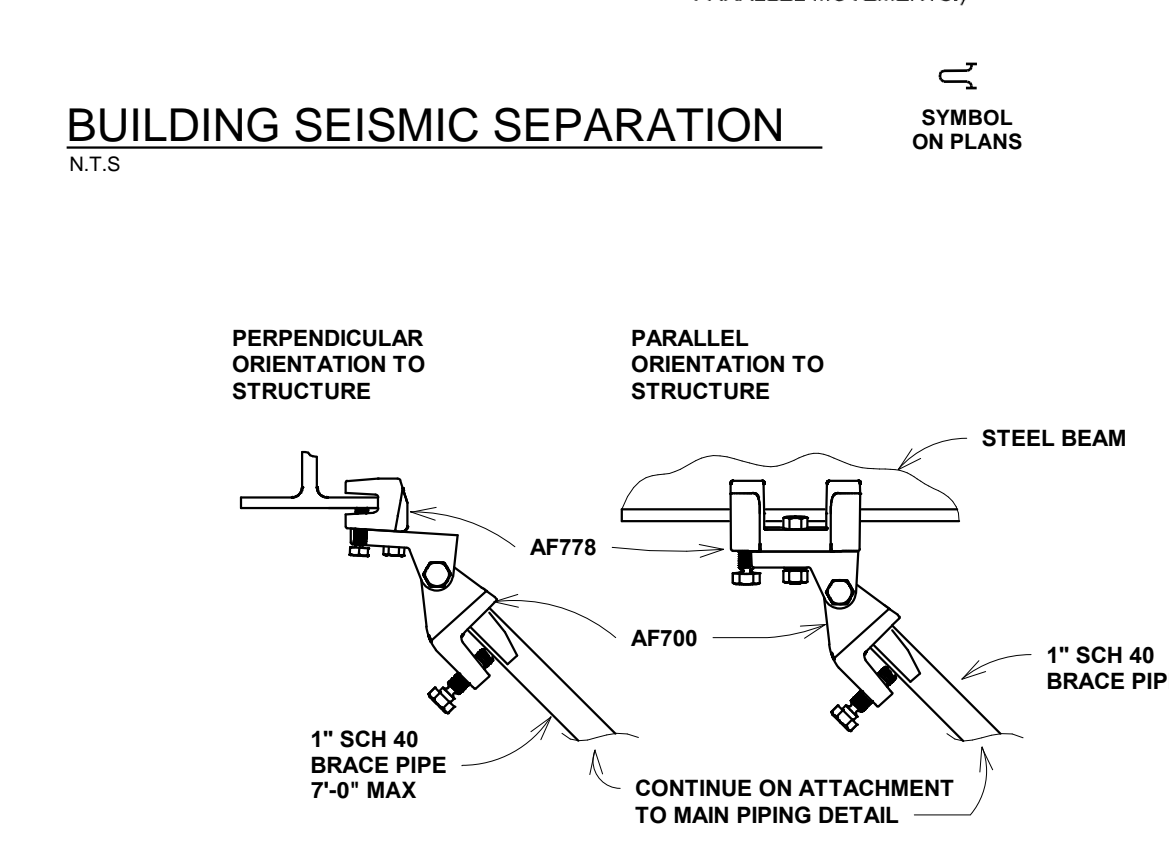
SUPERVISED CONTROL VALVES AND VANE STYLE WATERFLOW SWITCH SHALL ALL BE SUPERVISED BY THE BASE BUILDING FIRE ALARM SYSTEM

A 24V ALARM BELL SHALL BE INSTALLED ON THE EXTERIOR WALL OF THE RISER LOCATION

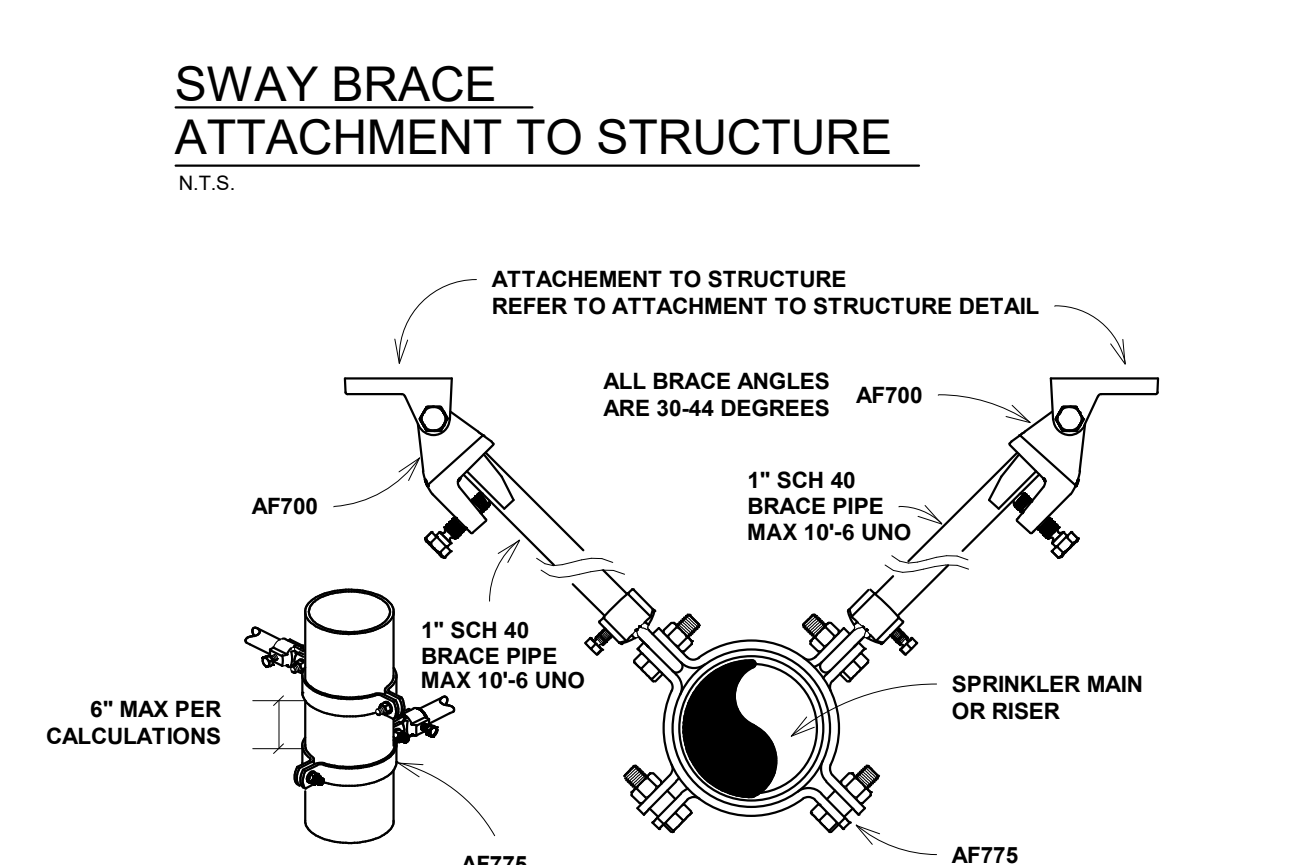
SYSTEM INSPECTOR'S TEST AND DRAIN IS ATTACHED TO THE RISER AND SHALL BE PIPED TO THE EXTERIOR OF THE BUILDING VIA A MAIN DRAIN. THIS SHALL TERMINATE OVER A SPLASH BLOCK WITH A 1/2" OUTLET COMPLETED WITH A 1/2" SMOOTH OUTLET (BROKEN SPRINKLER).



TOP BEAM C-CLAMP WITH RETAINING STRAP (BEAM)
N.T.S.



AFCON FIG 700 / 778 ATTACHMENT TO STEEL BAR JOIST
N.T.S.



AFCON FIG 700 / 775 4-WAY SWAY BRACE ATTACHMENT
N.T.S.

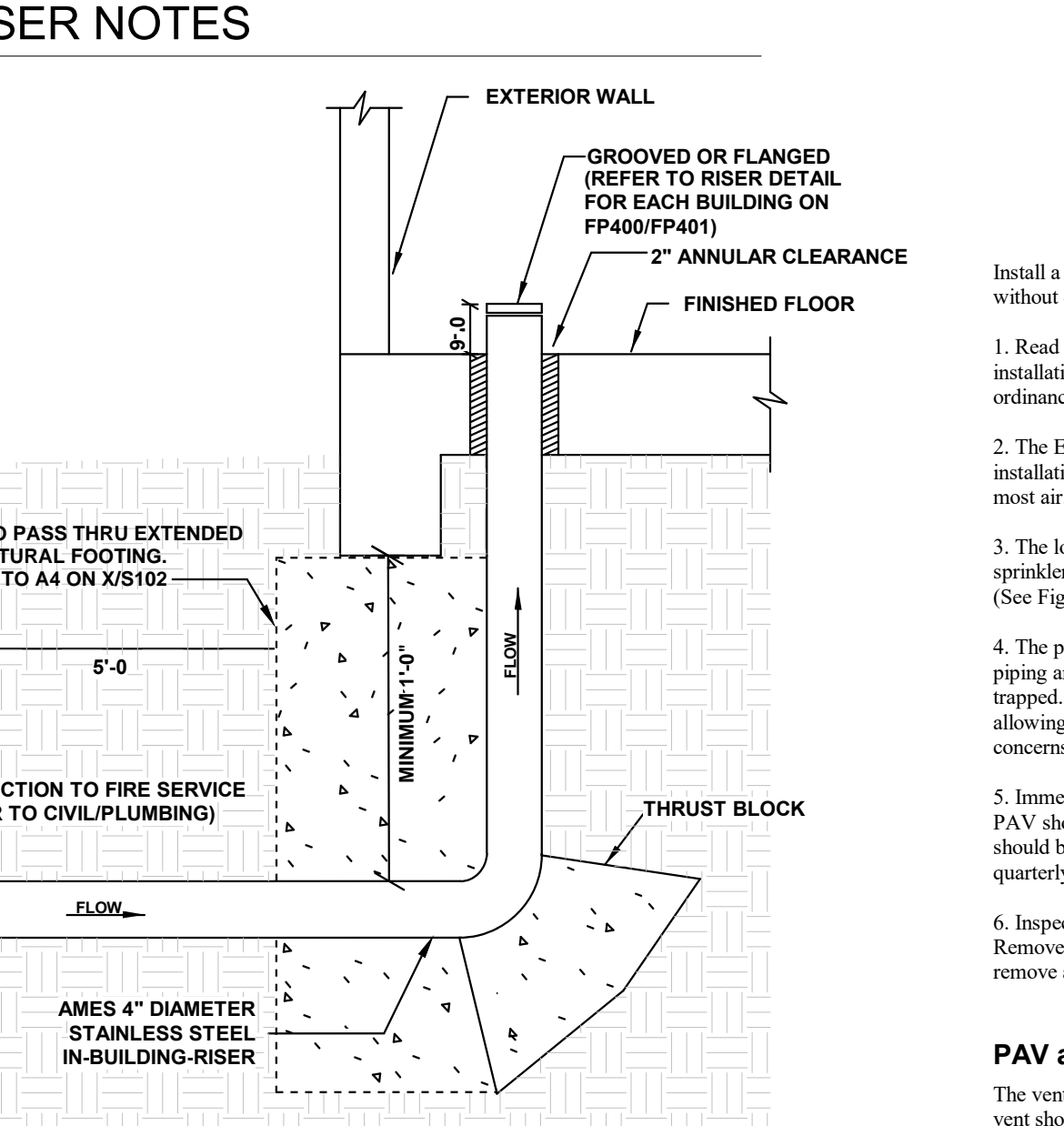
TABLE 9.2.2.1-1(a) MAXIMUM DISTANCE BETWEEN HANGERS (FT-IN)

NOMINAL PIPE SIZE	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	6"	8"
STEEL PIPE	N/A	12-0	12-0	15-0	15-0	9-0	9-0	9-0	9-0	9-0
THREADED LIGHTWALL	N/A	12-0	12-0	12-0	12-0	9-0	N/A	N/A	N/A	N/A
COPPER TUBE	8-0	8-0	10-0	12-0	12-0	9-0	N/A	N/A	N/A	N/A
CPVC	5-6	6-0	6-6	7-0	8-0	9-0	N/A	N/A	N/A	N/A

FIGURE 9.2.2.2.2 DISTANCE FROM SPRINKLER TO HANGER

38" MAX FOR 1" DIA.
48" MAX FOR 1 1/4" DIA. OR LARGER
IF GREATER THAN 48" MAX FOR 1" DIA.
IF GREATER THAN 60" FOR 1 1/4" DIA. OR LARGER

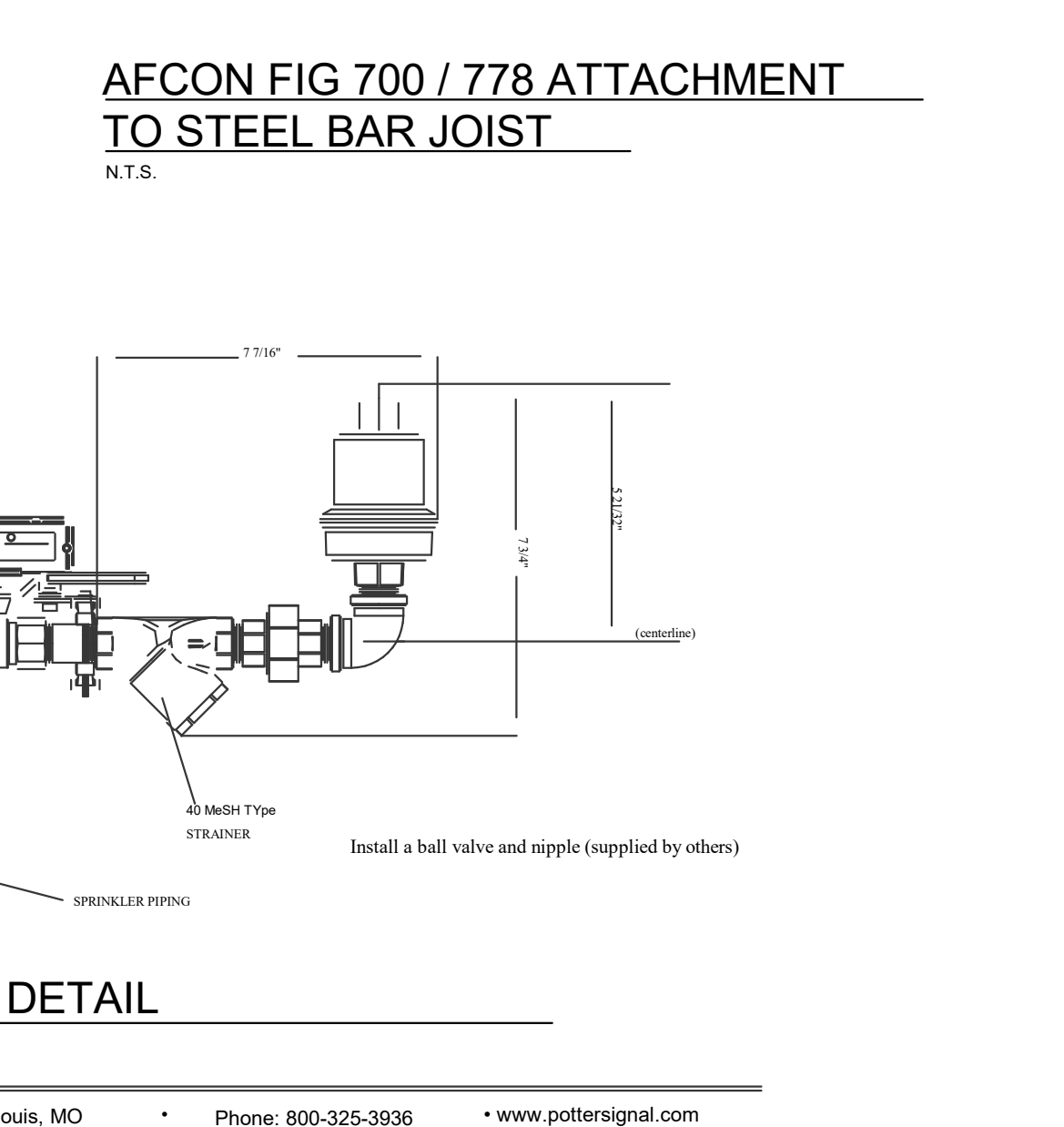
PROJECT HANGER SPACING TABLE (EXCEEDING NFPA)
N.T.S.



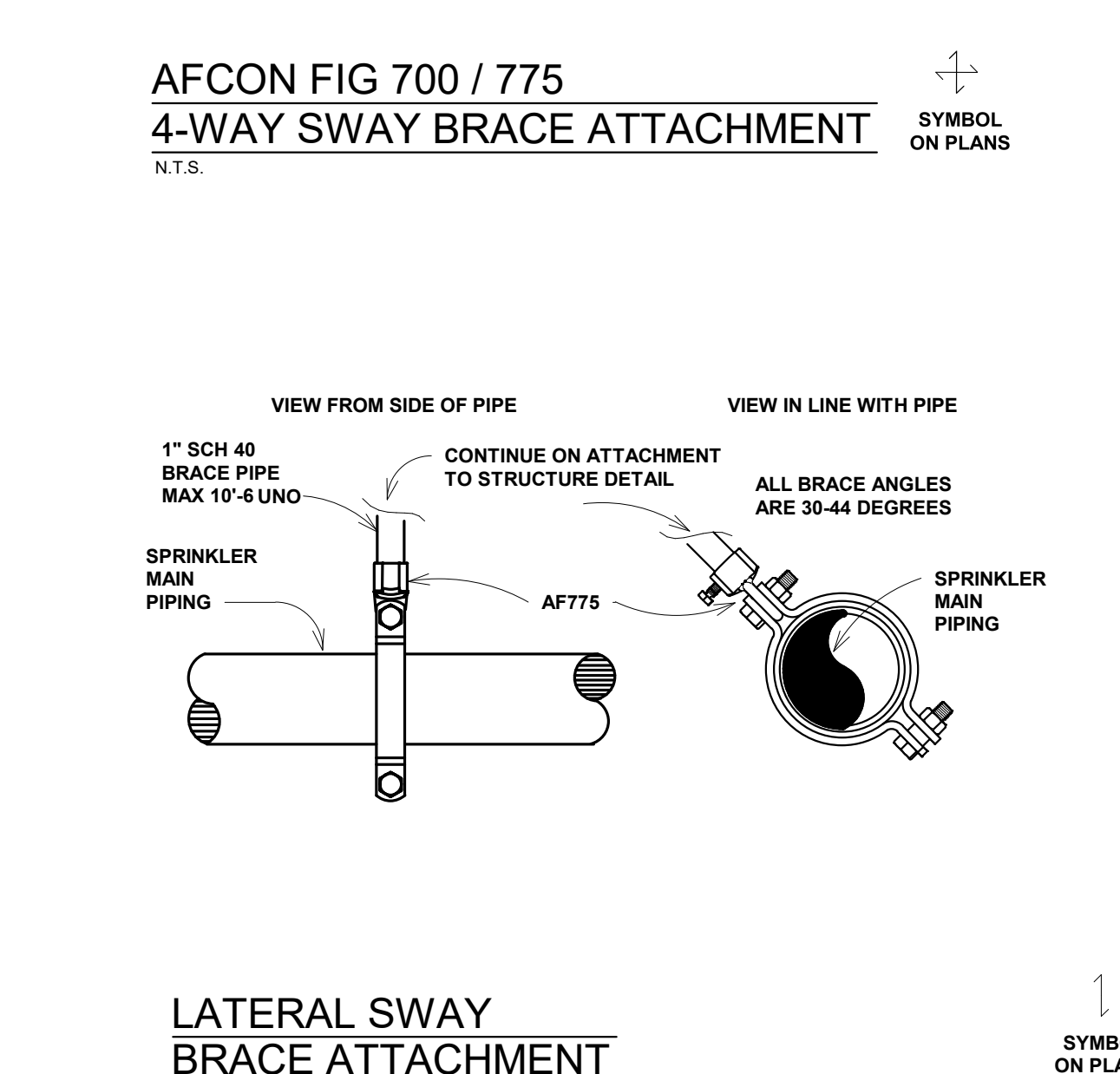
RISER NOTES

Install a ball valve in line with the PAV to assist in servicing the strainer without disabling the sprinkler system.

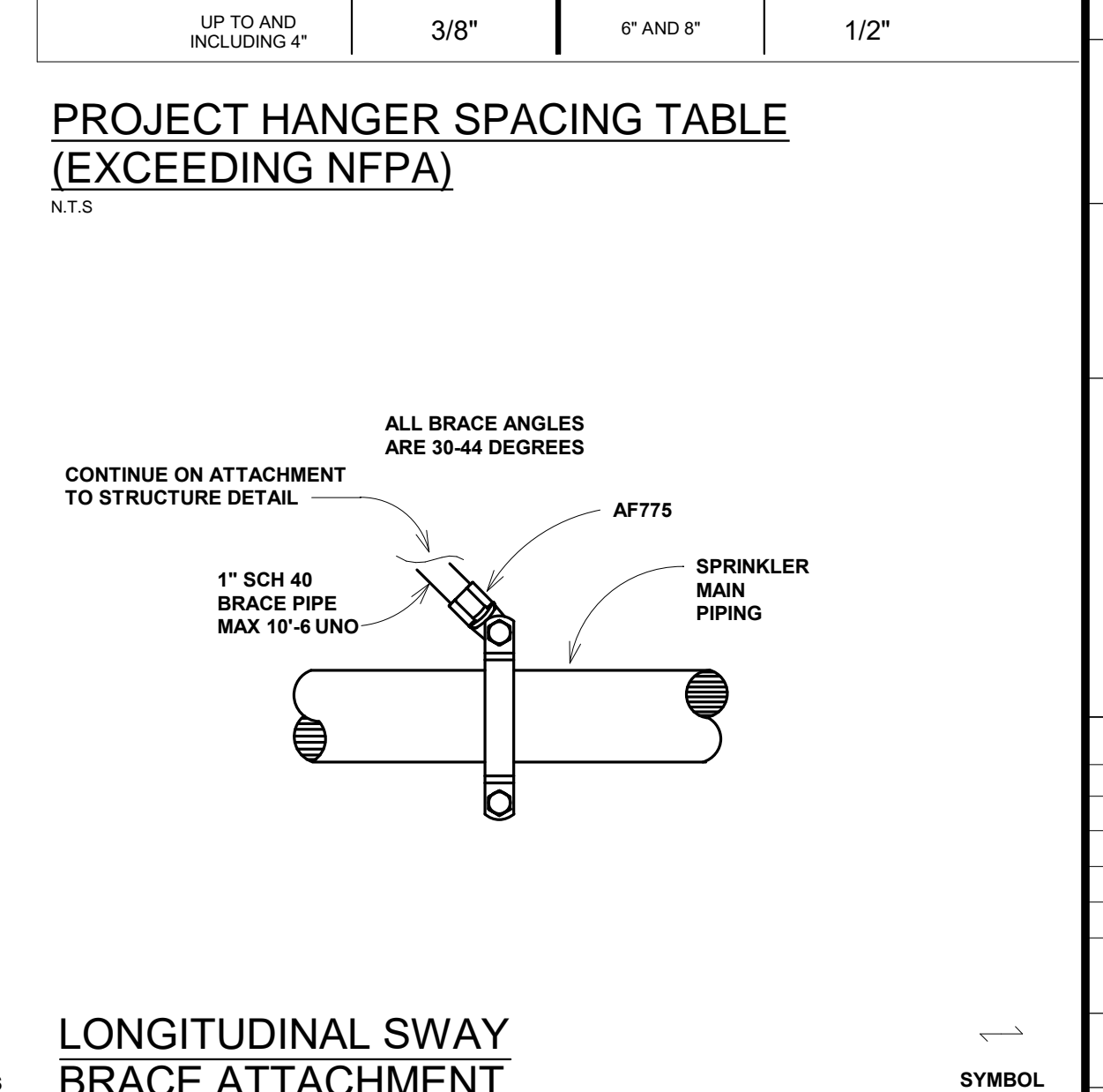
- Read and understand the instructions provided before you proceed with installation. The PAV shall be installed in accordance with local ordinances and the applicable NFPA 13, NFPA 13A, or NFPA 13R standard.
- The Engineer of Record should select the Model PAV, Potter Air Vent installation location. Usually at a point in the system that will vent the most air. Refer to piping plans for location.
- The location of the PAV must not interfere with the spray pattern of any sprinkler head. The connection point must be off the top of the pipe. (See Fig. 1)
- The piping must be level or pitch back toward the fire sprinkler system piping and arranged in such a manner that water will not become trapped. The outlet of the PAV contains a 1/2" male NPT threaded connection allowing the device to be piped to a drain or other suitable location if there are concerns about inadvertent water discharge.
- Immediately after installation and filling of the fire sprinkler system, the PAV should be inspected for leaks and proper operation. The unit should be inspected periodically. Thereafter the manufacturer recommends quarterly or more frequently.
- Inspection should include removal and cleaning of the strainer screen. Remove the screen and flush with clean water. Use a wire brush if necessary to remove any particles trapped in the screen.



AIR VENT DETAIL
N.T.S.



LONGITUDINAL SWAY BRACE ATTACHMENT
N.T.S.



LATERAL SWAY BRACE ATTACHMENT
N.T.S.

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Consultant

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Tulare Joint Union High School District
Tulare, CA 93274

Project

FIRE PROTECTION - DETAILS
Drawing

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Architect

No.	Revision/Submission	Date

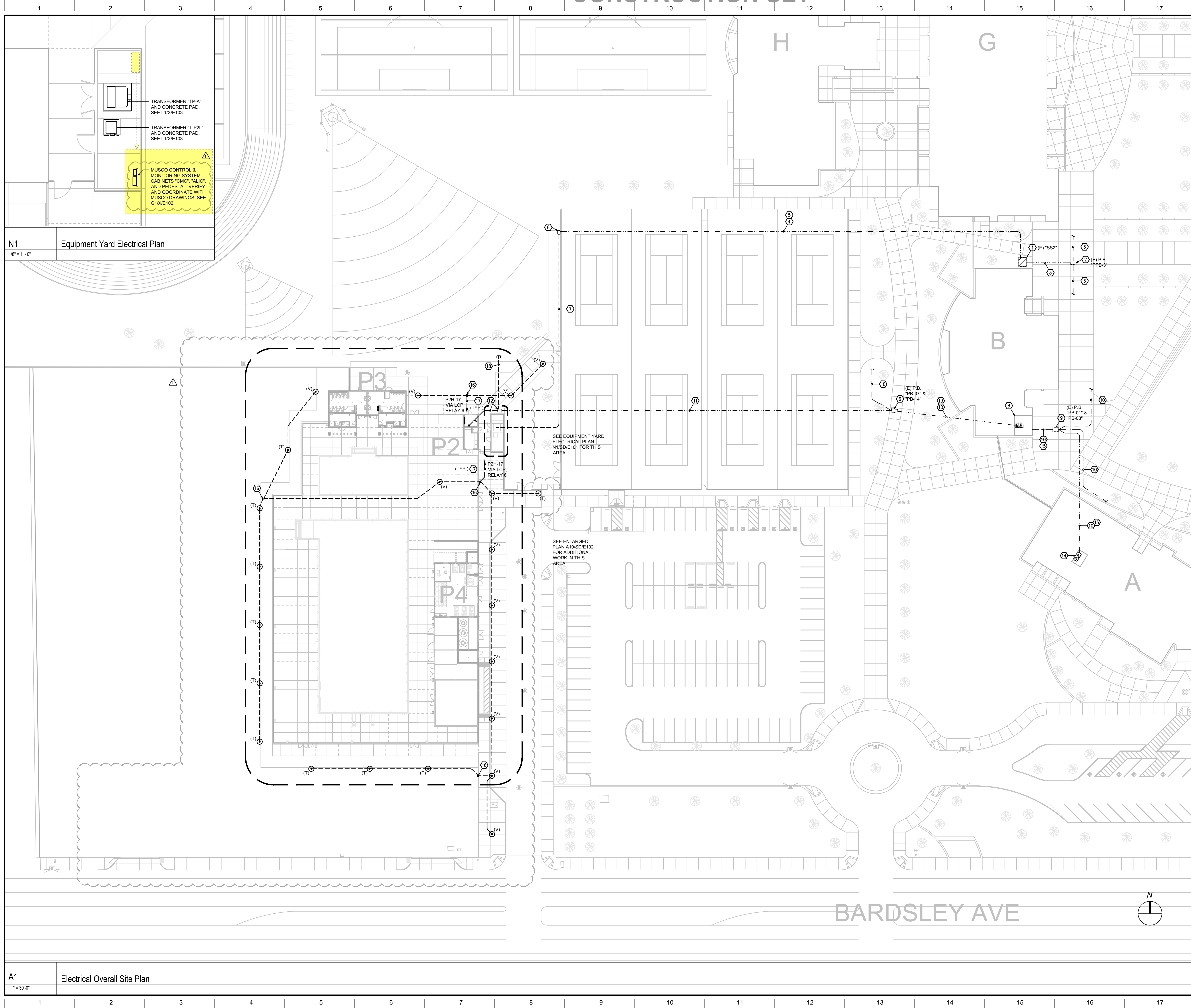
Revision

Designed By: WC
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Drawn By: KS
Project Number: 2180
Checked By: CC
Date: 01/20/2023
Reviewed By: CC

FP500

CONSTRUCTION SET

APPROVED BY THE STATE ARCHITECT
 APP: 02-120251, INC.
 REVIEWED FOR
 SS ID: PLS ID: ACS ID
 DATE: 08/28/2023



N1 Equipment Yard Electrical Plan
 1/8" = 1'-0"

A1 Electrical Overall Site Plan
 1" = 30'-0"

DSA File No.: 54-H11
 DSA Application No.: 02-120251
 Agency Approval

- ### KEYNOTES
- EXISTING PAD MOUNTED MEDIUM VOLTAGE SECTIONALIZING SWITCH, 600A 15KV.
 - EXISTING POWER PULL BOX.
 - EXISTING POWER FEEDERS.
 - EXISTING SPARE 4" POWER CONDUIT STUB WITH PULL ROPE.
 - PROVIDE MV CONDUCTORS PER POWER SINGLE LINE DIAGRAM L10X/E103.
 - 3 FT. x 5 FT. VAULT WITH SPRING-ASSIST BOLT-DOWN STEEL LIDS WITH "HIGH VOLTAGE" MARKING. SEE DETAIL M10X/E106.
 - POWER MV FEEDER AND SPARE 4" C. PER POWER SINGLE LINE DIAGRAM L10X/E103.
 - EXISTING DATA MDF AND LOW VOLTAGE SYSTEMS HEAD END EQUIPMENT AT EXISTING BUILDING DATA/ELECTRICAL ROOM. CONNECT DATA AND LOW VOLTAGE SYSTEMS. SEE LOW VOLTAGE SINGLE LINE DIAGRAM A11X/E105.
 - EXISTING LOW VOLTAGE SYSTEMS PULL BOX(ES).
 - EXISTING LOW VOLTAGE SYSTEMS CONDUITS AND CABLING.
 - EXISTING (2) 4" SPARE CONDUITS STUB FROM EXISTING PULL BOX "PB-07". EXISTING (3) 2" & (1) 1 1/2" SPARE CONDUITS STUB FROM EXISTING PULL BOX "PB-14".
 - INTERCEPT EXISTING CONDUITS AND RISE INTO B3042 VAULT. RUN (1) 4" C., (2) 2" C., AND (1) 1 1/2" C. TO NEW BUILDING "P2" ELECTRICAL ROOM. PULL NEW FIBER OPTIC AND COMMISSIONAL CABLES PER LOW VOLTAGE SINGLE LINE DIAGRAM A11X/E105.
 - PULL NEW FIBER OPTIC AND COMMISSIONAL CABLES THROUGH EXISTING CONDUITS. CABLING PER LOW VOLTAGE SINGLE LINE DIAGRAM A11X/E105.
 - EXISTING FIRE ALARM CONTROL PANEL AT EXISTING BUILDING DATA/ELECTRICAL ROOM. CONNECT FIRE ALARM. SEE FIRE ALARM PLANS.
 - PULL FIRE ALARM CABLES THROUGH EXISTING CONDUIT.
 - B1017 H-20 RATED PULL BOX WITH BOLT-DOWN STEEL LID LABELLED "LIGHTING" PER DETAIL M14X/E106.
 - 1" C. 2#8, #10G.
 - STUB (1) 4" C., (2) 2" C., (1) 1 1/2" C. AS SHOWN.

- ### POWER & SYSTEMS NOTES
- ALL WORK AT THE POOLS AND RELATED POOL EQUIPMENT SHALL CONFORM WITH CEC ARTICLE 680. REFER TO AQUATIC DESIGN GROUP DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL ELECTRICAL WORK (E.G. POOL LIGHTING, TIMING EQUIPMENT, GROUNDING, ETC.) AT THE POOLS AND RELATED EQUIPMENT ROOMS.
 - ALL RACEWAYS, COUPLINGS, STRAPS, ANCHORS, AND WIRING IN POOL EQUIPMENT ROOM, ACID, CHLORINE, AND POOL EQUIPMENT ENCLOSURE SHALL CONFORM TO CEC ARTICLE 680.14 AND SHALL BE UL LISTED AND ETL VERIFIED FOR SUCH USE. THE EXPOSED ELECTRICAL INSTALLATION SHALL BE FINISHED WITH PVC ANTI-CORROSIVE COATINGS. ALL UNISTRUTS SHALL HAVE A DEFENDER FINISH.
 - ALL CONDUIT PENETRATIONS THROUGH CMU WALLS SHALL BE PER DETAIL E11X/S104.

HD
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 www.hardin-davidson.com
 Consultant

Mission Oak HS Aquatic Complex
 Tulare Joint Union High School District
 Tulare, CA 93274
 Project

SITE DEVELOPMENT
 ELECTRICAL OVERALL SITE PLAN
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 Architect

No.	Revision/Submission	Date
1	REVISION_01	05/31/2023

Revision	
Designed By: SD	Copyright 2022 Darden Architects
Scale: As indicated	Drawn By: HDE
Project Number: 2180	Checked By: SD
Date: 08/02/2022	Reviewed By: SD

SD/E101

8/16/2023 4:24:02 PM
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CONSTRUCTION SET

APPROVED BY THE STATE ARCHITECT
 APP: 02-120251, INC.
 REVIEWED FOR
 SS ID: ACS ID
 DATE: 08/28/2023

DSA File No.:
 54-H11

DSA Application No.:
 02-120251

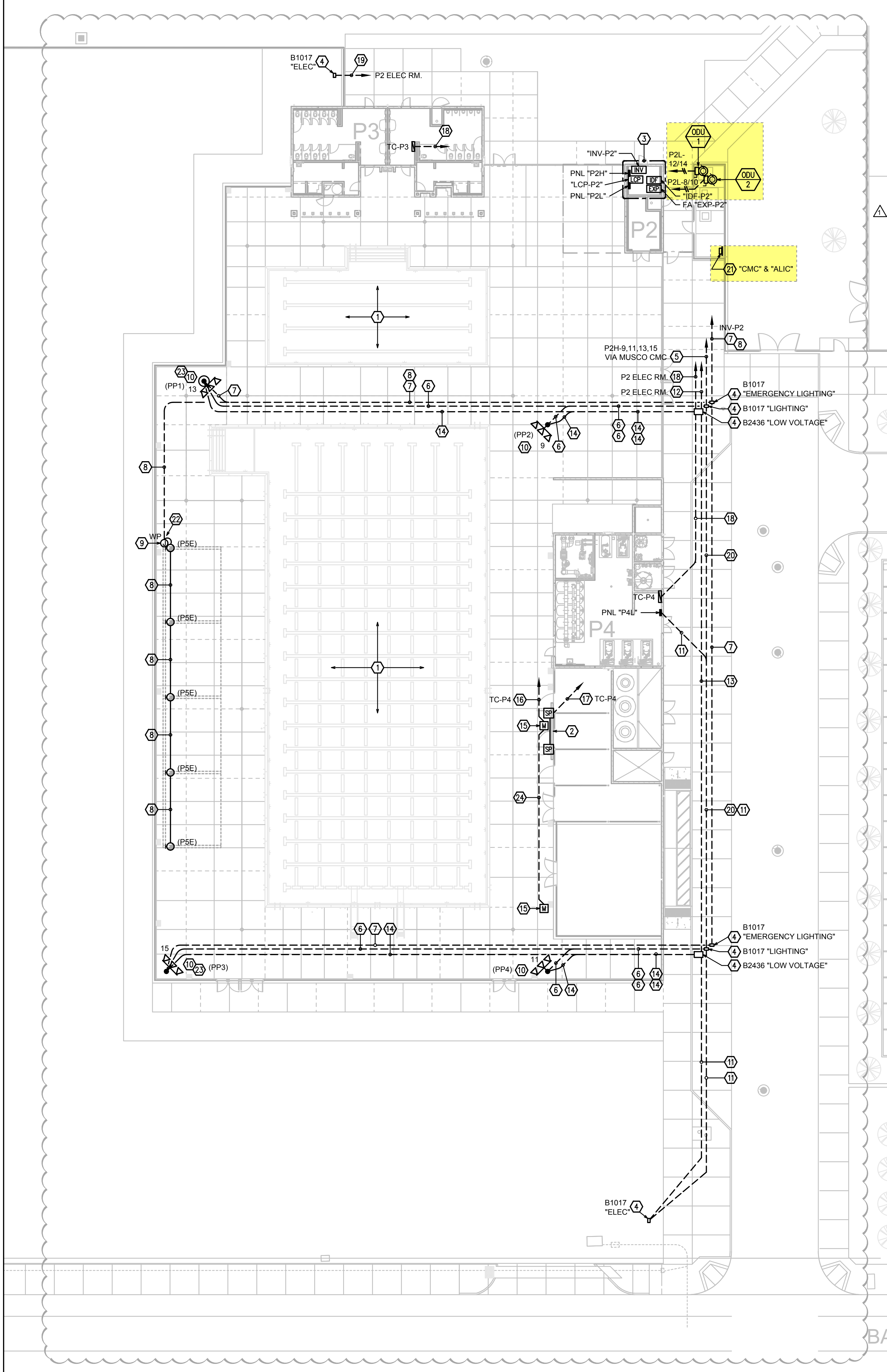
Agency Approval

KEYNOTES

1. PROVIDE POOL GROUNDING, LIGHTING, AND TIMING SYSTEM INSTALLATION PER POOL DRAWINGS AND CEC 800.
2. SCOREBOARD: PROVIDE (2) AUDIO SYSTEM SPEAKERS ABOVE SCOREBOARD. SEE SHEET PE102 FOR ADDITIONAL DEVICES. PROVIDE POWER AND TIMING SYSTEM INSTALLATION PER POOL DRAWINGS. SEE ALSO ARCHITECTURAL ELEVATIONS.
3. REFER TO ENLARGED ELECTRICAL ROOM ELECTRICAL PLAN M10P/E105. REFER TO STRUCTURAL DETAILS 61X/6102 FOR CONDUITS PASSING BELOW OR ADJACENT TO A FOOTING AND 61X/6102 FOR CONDUITS PENETRATING FOOTINGS.
4. H-20 RATED PULL BOX WITH EXTENSION AND BOLT-DOWN STEEL LID PER DETAIL M14X/E106. SIZE AND LABEL INDICATED ON PLANS.
5. 2" TC 12#10, 1#10G. TO MUSCO LIGHTING CONTROL & MONITORING CABINET "CMC" FOR DECK LIGHTING AND POOL LIGHTING CIRCUITS.
6. 1" TC 3#10, 1#10G. FROM MUSCO POLE LIGHTS TO MUSCO CMC.
7. 1" TC 2#10, 1#10G. TO EMERGENCY LIGHTING INVERTER "INV-P2" NORMALLY ON CIRCUIT BREAKER VIA MUSCO "CMC" AND "ALIC".
8. 1" TC 2#10, 2#14 (VIOLET/GRAY DIMMING), 1#10G. TO EMERGENCY LIGHTING INVERTER "INV-P2" NORMALLY ON CIRCUIT BREAKER VIA MUSCO "CMC" AND "ALIC".
9. WEATHERPROOF J-BOX FOR SHADE STRUCTURE LIGHTING CONNECTION.
10. MUSCO LIGHT POLE PER MANUFACTURER DRAWINGS. PROVIDE ONE-REACH 4-PORT P&E EXTENDER AND CONNECT SIEMENS FIBER/COPPER CABLES. MOUNT EXTENDER INSIDE POLE AND ENSURE IT IS ACCESSIBLE VIA THE HANDHOLE. INSTALL CAMERA AND WAP AT POLE. DROP (2) CAT6 CABLES FROM WAP LOCATION AND (1) CAT6 CABLE FROM CAMERA LOCATION AND CONNECT TO EXTENDER.
11. 1-1/2" C. SPARE FOR FUTURE MARQUEE SIGN.
12. 2" C. TO ELEC ROOM W/ (4) ONE-REACH SIEMENS FIBER/COPPER CABLES AT EACH MUSCO POLE FOR CAT6A PORT EXTENDERS. (2) 2" C. SPARE.
13. 2" C. W/ (2) SIEMENS FIBER/COPPER CABLES AT EACH MUSCO POLE FOR CAT6A PORT EXTENDERS. (2) 2" C. SPARE.
14. 1-1/2" C. TO MUSCO POLE W/ (1) 4-PORT CAT6A EXTENDER. 1-1/2" C. SPARE.
15. PROVIDE XLR MIC INPUT AND HYDREL BRASS BOX IN TOMBSTONE. REFER TO DETAIL AND POOL SPECIFICATIONS. POWER AND TIMING OUTLETS SHOWN IN POOL DRAWINGS.
16. 1-1/4" C. TO TC-P4. PULL (2) SHIELDED, OSP MIC CABLES HOME TO AUDIO CABINET IN STORAGE ROOM IN BUILDING P2.
17. 1-1/4" C. TO TC-P4. PULL (2) 102 SHIELD SPEAKER CABLES HOME TO AUDIO CABINET IN STORAGE ROOM IN BUILDING P2.
18. (2) 2" C. W/ LOW VOLTAGE CABLES PER A11X/E105. 2" C. SPARE.
19. STUBS FOR FUTURE: 2" C. TO PANEL "P2H"; 2" C. TO PANEL "P2L"; 2" C. TO ELEC RM.
20. 2" C. #10, 1#10G. FROM MUSCO POLE LIGHTS TO MUSCO CMC. 2" C. SPARE.
21. PEDESTAL MOUNTED MUSCO CONTROLLER CABINET "CMC" AND MUSCO AUXILIARY LIGHTING INTERFACE CABINET "ALIC" MOUNT PER DETAIL G11X/E102 & G18X/E102. SEE CONNECTIONS DIAGRAM G6X/E102.
22. RISE AT SHADE STRUCTURE COLUMN AND RUN SURFACE TO EACH LIGHT ALONG STRUCTURAL MEMBERS.
23. MUSCO POLE EQUIPPED WITH (2) 400W LED FLOOD LIGHTS ON EMERGENCY CIRCUIT.
24. 1-1/4" C. W/ SHIELDED, OSP MIC CABLE.

POOL ELECTRICAL NOTES

1. NOTE THAT NOT ALL ELECTRICAL WORK FOR THE POOL COMPLEX IS SHOWN ON THE E SHEETS. INCLUDE ALL ELECTRICAL SCOPE SHOWN IN THE POOL DESIGN DRAWINGS, INCLUDING DRAWINGS AND SPECIFICATIONS BY AQUATIC DESIGN GROUP IN BID.
2. REFER TO SWIMMING POOL SYSTEM SHEETS FOR ADDITIONAL ELECTRICAL WORK AT POOL AND DECK.
3. REFER TO SWIMMING POOL MECHANICAL ROOM SYSTEM SHEETS FOR ADDITIONAL ELECTRICAL WORK REQUIRED AT MECHANICAL ROOM.
4. VERIFY ALL POOL EQUIPMENT LOCATIONS WITH SWIMMING POOL SHEETS PRIOR TO ROUGH-IN.
5. ALL RACEWAYS, COUPLINGS, STRAPS, ANCHORS, AND WIRING IN POOL EQUIPMENT ROOM, ACID, CHLORINE, AND POOL EQUIPMENT ENCLOSURE SHALL CONFORM TO CEC ARTICLE 680.14 AND SHALL BE UL LISTED AND ETL VERIFIED FOR SUCH USE. THE EXPOSED ELECTRICAL INSTALLATION SHALL BE FINISHED WITH PVC ANTI-CORROSIVE COATINGS. ALL UNITS SHALL HAVE A DEFENDER FINISH.
6. ALL CONDUIT PENETRATION THROUGH CMU WALLS SHALL BE PER DETAIL E11X/6104.



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Mission Oak HS Aquatic Complex
 Tulare Joint Union High School District
 Tulare, CA 93274

Project

SITE DEVELOPMENT
 ENLARGED ELECTRICAL SITE PLAN

Drawing

darden architects
 ARCHITECTURE
 PLANNING
 INTERIORS
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Architect

(Professional Architect Seal: Darden Architects, No. C23724, State of California)

No.	Revision/Submission	Date
1	REVISION_01	05/31/2023

Revision	
Designed By:	SD
Copyright	2022 Darden Architects
Scale:	As indicated
Drawn By:	HDE
Project Number:	2180
Checked By:	SD
Date:	08/02/2022
Reviewed By:	SD

A10 Enlarged Electrical Site Plan
 1" = 20'-0"

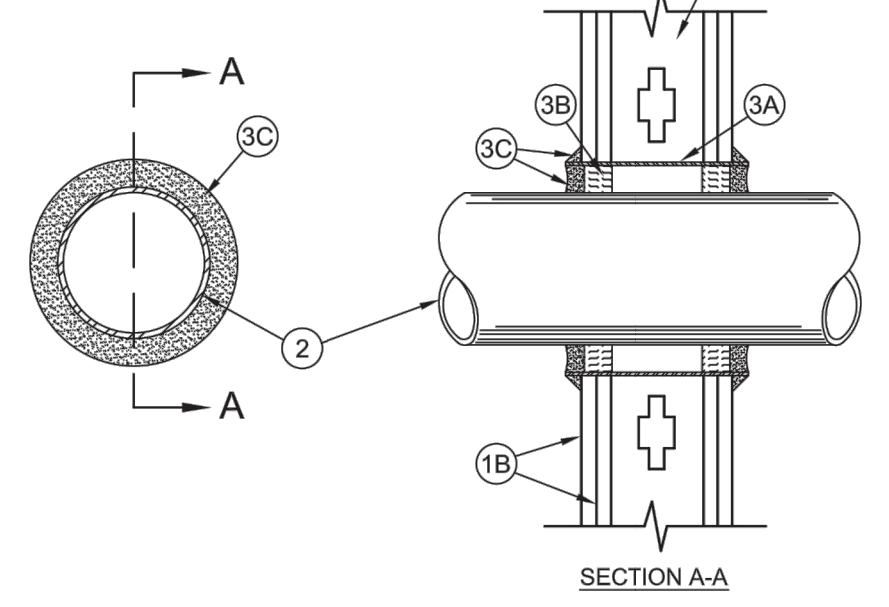
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CONSTRUCTION SET

APPROVED BY THE ARCHITECT
APP: 02-120251, INC.
REVISION FOR
08/02/2022
DATE: 08/28/2023

System No. W-L-1003

February 14, 2008
F Rating - 1 and 2 Hr (See Item 1)
T Rating - 0 Hr

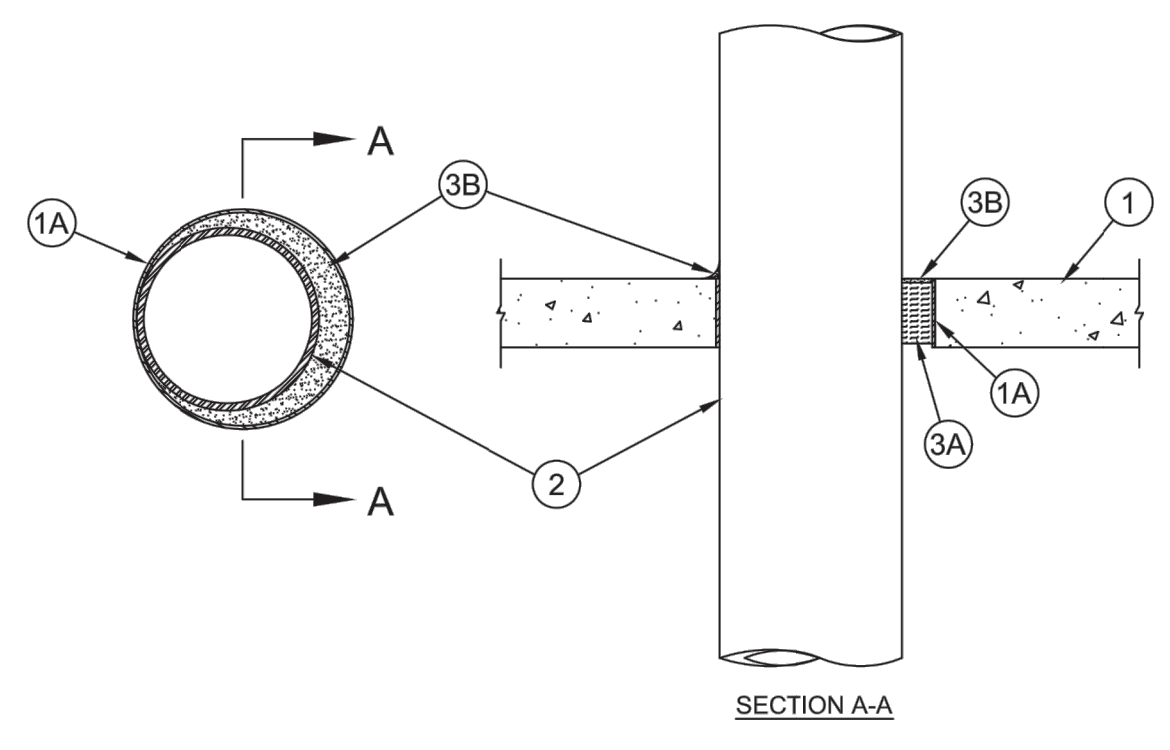


SECTION A-A

- Wall Assembly** - The 1 or 2 hr fire-rated gypsum board/wall assembly shall be constructed of the materials and in the manner described in the individual U300, U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs** - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3.1/2 in. (89 mm) wide by 1.3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.
 - Gypsum Board** - Nom 5/8 in. (16 mm) thick, 4 ft. (1.2 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400 or V400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 1 1/2 in. (38 mm).
- The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
- Through Penetrant** - One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The space between pipe, conduit or tubing and the fire stop sleeve (Item 3A) shall be min 0.1 in. (spiral contact) to max 2-3/8 in. (60 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
 - Steel Pipe** - Nom 1 1/2 in. (38 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
 - Iron Pipe** - Nom 1 1/2 in. (38 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 1 1/2 in. (38 mm) diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.
 - Conduit** - Nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing.
 - Copper Tubing** - Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
 - Copper Pipe** - Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
- Firestop System** - Installed symmetrically on both sides of wall assembly. The details of the firestop system shall be as follows:
 - Steel Sleeve** - Cylindrical sleeve fabricated from min 0.019 in. thick (0.48 mm) galv sheet steel into steel sleeve on both sides of the longitudinal seam. Length of steel sleeve to be equal to thickness of wall plus 1 to 4 in. (25 to 102 mm) such that, when installed, the ends of the sleeve will project approx 1/2 to 2 in. (13 to 51 mm) beyond the surface of the wall on both sides of the wall assembly.
 - Packing Material** - Min 1 in. (25 mm) thickness of mineral wool batt insulation firmly packed into steel sleeve on both sides of the wall assembly as permanent foam. Packing material to be recessed min 1/2 in. (13 mm) from end of steel sleeve (flush with or recessed into gypsum board surface) on both sides of wall assembly.
 - Packing Material** - (Not shown) - As an alternate to Item B, nom 1 in. (25 mm) thick polyurethane backer rod may be used. The backer rod is to be recessed within the steel sleeve a min of 1 in. (25 mm) from each surface of wall.
 - Fill Void or Cavity Materials** - **Caulk or Sealant** - When mineral wool batt insulation is used, caulk or sealant applied to fill the steel sleeve to a min depth of 1/2 in. (13 mm) on both sides of wall assembly. When backer rod is used, a min thickness of 1 in. (25 mm) of caulk or sealant is required flush with both sides of wall. A nom 1/4 in. (6 mm) diam continuous bead of caulk or sealant shall be applied around the circumference of the sleeve at its edges from the gypsum board surface on both sides of the wall assembly.

System No. C-AJ-1366

December 04, 2008
F Rating - 2 Hr
T Rating - 0 Hr
L Rating At 400 F - 1 CFM/50 B
L Rating At 400 F - 2 CFM/50 B



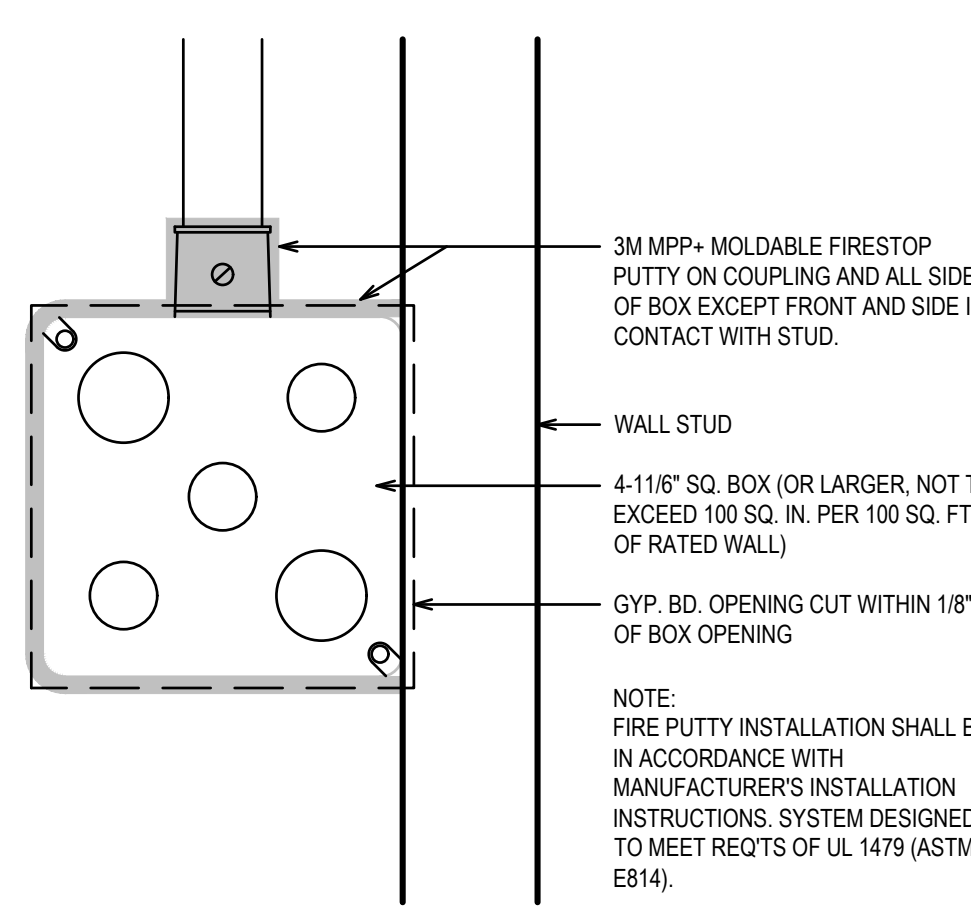
SECTION A-A

- Floor or Wall Assembly** - Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete floor or min 3 in. (76 mm) thick, reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 10 in. (254 mm).
- See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.**
- Steel Sleeve (Optional)** - Nom 10 in. (254 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe sleeve cast into concrete floor or wall. Sleeve to be flush with top and bottom surfaces of floor or both surfaces of wall.
 - Steel Pipe** - Nom 8 in. (203 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
 - Iron Pipe** - Nom 8 in. (203 mm) diam (or smaller) cast iron or ductile iron pipe.
 - Conduit** - Nom 6 in. (152 mm) diam (or smaller) rigid steel conduit.
 - Conduit** - Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing.
 - Copper Tubing** - Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tube.
 - Copper Pipe** - Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.
- Firestop System** - The details of the firestop system shall be as follows:
 - Packing Material** - Min 2 in. (51 mm) thickness of min 4 pcf (64 kg/m³) mineral wool batt insulation firmly packed into opening as a permanent foam. Packing material to be recessed from top surface of floor or both surfaces of wall to accommodate the required thickness of fill material.
 - Fill Void or Cavity Materials** - **Caulk** - Min 1/2 in. (13 mm) thickness of caulk applied within the annulus, flush with top surface of floor or both surfaces of wall. Min 1/2 in. (13 mm) diam bead of caulk applied to the penetrant/concrete interface at the contact location on the top surface of floor or both surfaces of wall.

System No. E1

No Scale

Conduit Penetration Fire Stop Detail

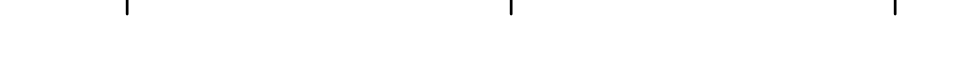


NOTE: FIRE PUTTY INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. SYSTEM DESIGNED TO MEET REQTS OF UL 1479 (ASTM E814).

System No. A1

No Scale

Electrical Box in Fire Rated Wall Detail



ELECTRICAL GENERAL NOTES:

- ALL WORK SHALL MEET THE LATEST ADOPTED ADDITIONS OF THE CALIFORNIA CODE OF REGULATIONS, TITLE 24 AND ALL OTHER APPLICABLE REGULATIONS, WHICH INCLUDE:
 - CALIFORNIA BUILDING CODE 2019
 - CALIFORNIA ELECTRICAL CODE 2019
 - NON RESIDENTIAL CEC ENERGY STANDARDS 2019
- NOTHING IN THE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.
- IT IS THE INTENTION OF THESE PLANS AND SPECIFICATIONS TO COVER EVERYTHING REQUIRED TO PROVIDE FOR COMPLETE AND OPERATIVE SYSTEMS. THE CONTRACTOR IS TO FURNISH LABOR, MATERIAL, TRANSPORTATION, EQUIPMENT, MISCELLANEOUS SERVICES, ETC. REQUIRED TO ACCOMPLISH THIS RESULT. ANYTHING WHICH MAY BE REASONABLY CONSTRUED AS A NECESSARY PART OF THE INSTALLATION IS TO BE INCLUDED, WHETHER OR NOT SPECIFICALLY SHOWN OR MENTIONED.
- THE CONTRACTOR SHALL EXAMINE THE SITE AND EXISTING CONDITIONS AND MAKE ALLOWANCES IN THE BID FOR ANY CONDITIONS NOT SHOWN ON THE ELECTRICAL DOCUMENTS.
- THE PLANS AND SPECIFICATIONS ARE INTENDED TO BE USED AS CONSTRUCTION GUIDELINES AND ARE NOT THE TOTAL INSTRUMENT OF CONTRACT DOCUMENTS. IT IS NOT THE INTENTION OF ANY CONSTRUCTION PLANS TO DIVIDE WORK AMONG DIFFERENT TRADES. VERIFY THE SCOPE OF WORK WITH THE ARCHITECT AND THE GENERAL CONTRACTOR.
- ELECTRICAL ROUTING IS DIAGRAMMATIC ONLY. ACTUAL ROUTING & PHYSICAL CONDITIONS MAY VARY. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL ROUTING, CONNECTIONS, & PROVISION OF ALL APPURTENANCES NECESSARY FOR A COMPLETE & OPERATING SYSTEM.
- ELECTRICAL EQUIPMENT SHALL HAVE AN APPROVED TESTING LABORATORY LABEL ATTACHED (UL, CSA ETC) PER CEC 110.2.
- PROVIDE LABELING AND DIRECTORIES FOR ALL SWITCHBOARDS AND PANELBOARDS PER CEC 408.4.
- ELECTRICAL EQUIPMENT SHALL HAVE A SHORT CIRCUIT CURRENT RATING CAPABLE OF WITHSTANDING THE AVAILABLE SHORT CIRCUIT CURRENT PER CEC 110.9.
- PROVIDE MINIMUM 30" WIDE x 78" HIGH x 36" DEEP WORK CLEARANCES IN FRONT OF PANELS, SERVICE OR EQUIPMENT RATED AT 120/208/208/4W PER CEC 110.2b.
- PROVIDE MINIMUM 30" WIDE x 78" HIGH x 42" DEEP WORK CLEARANCES IN FRONT OF PANELS, SERVICE OR EQUIPMENT RATED AT 277/480/30/4W PER CEC 110.2b.
- ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUIT OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL BE MOUNTED BETWEEN 15" AFF AND 48" AFF AND SHALL COMPLY WITH CBC SECTION 11B-308. THE LOW REACH SHALL BE MEASURED TO THE BOTTOM OF THE OUTLET BOX AND THE HIGH REACH SHALL BE MEASURED TO THE TOP OF THE OUTLET BOX. IF THE REACH IS OBSTRUCTED (E.G. BY CASEWORK, COUNTERS, ETC.), RECEPTACLES SHALL BE LOCATED WITHIN THE REACH RANGES SPECIFIED IN CBC 11B-308.2.2 AND 11B-308.3.2.
- CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF A ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES, OR COOLING, HEATING AND VENTILATING EQUIPMENT SHALL BE MOUNTED BETWEEN 15" AFF AND 48" AFF AND SHALL COMPLY WITH CBC SECTION 11B-308. THE LOW REACH SHALL BE MEASURED TO THE BOTTOM OF THE OUTLET BOX AND THE HIGH REACH SHALL BE MEASURED TO THE TOP OF THE OUTLET BOX. IF THE REACH IS OBSTRUCTED (E.G. BY CASEWORK, COUNTERS, ETC.), SWITCHES AND CONTROLS SHALL BE LOCATED WITHIN THE REACH RANGES SPECIFIED IN CBC 11B-308.2.2 AND 11B-308.3.2.
- ALL WALL AND SURFACE MOUNTED FIXTURES PROTRUDING IN THE PATH OF TRAFFIC (PO) OR COMMON PEDESTRIANWAYS SHALL COMPLY WITH CBC 11B-307.2, OR SHALL BE MOUNTED LESS THAN 27" AFF OR GREATER THAN 80" AFF, OR SHALL BE PROVIDED WITH A BARRIER CONFORMING TO CBC 11B-307.4.
- EMERGENCY EGRESS LIGHTING SHALL PROVIDE A MINIMUM LUMINANCE OF 1 FOOTCANDLE AT THE WALKING SURFACE FOR A MINIMUM OF 90 MINUTES.
- FIRE ALARM EQUIPMENT SHALL BE SERVED BY DEDICATED FIRE ALARM BRANCH CIRCUITS PER NFPA 72 10.6.5.1.2. THE CIRCUIT NUMBER SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM EQUIPMENT PER NFPA 72 10.6.5.2.1. THE CIRCUIT BREAKER SHALL BE EQUIPPED WITH RED HANDLE AND LOCK-ON DEVICE, AND PERMANENTLY IDENTIFIED AS "FIRE ALARM CIRCUIT" PER NFPA 72 10.6.5.2.2, 10.6.5.2.3, 10.6.5.2.4, AND 10.6.5.4.
- WIRING FOR 120/208V AND 277/480V SYSTEMS SHALL BE MIN. #12 AWG THHN/THWN-2 COPPER.
- FEEDERS SIZE #4 AND LARGER SHALL BE MEGGER TESTED. TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER.
- COLOR/FINISHES/MATERIALS FOR ALL ELECTRICAL DEVICES, PLATES, LIGHT FIXTURES, ETC. SHALL BE CHOSEN BY THE ARCHITECT.
- PROVIDE PERMANENT LOCK-OPEN DEVICES ON CIRCUIT BREAKERS SERVING ELECTRIC WATER HEATERS TO MEET THE REQUIREMENTS OF CEC 422.31.
- CONTRACTOR SHALL EXTEND ALL SIGNAL AND FIRE ALARM SYSTEMS AS REQUIRED. MODIFY HEAD-IN EQUIPMENT TO ACCOMMODATE NEW DEVICES AS REQUIRED. VERIFY THE CONDITION AND EXPANDABILITY OF ALL HEAD-IN EQUIPMENT PRIOR TO BID AND MODIFY ACCORDINGLY.
- CALL US UNDERGROUND ALERT AND VERIFY WITH DISTRICT THE DESIRED ROUTING AND LOCATIONS OF UNDERGROUND CONDUITS AND STRUCTURES PRIOR TO TRENCHING.
- EXISTING EQUIPMENT TO BE REMOVED AND/OR REPLACED SHALL BE DELIVERED TO THE DISTRICT MAINTENANCE DEPARTMENT OR DISPOSED OF, AT THE DISCRETION OF THE DISTRICT.
- ALL CONDUITS UNDER CONCRETE OR ASPHALT WILL HAVE 3/4" MINIMUM COVER OF ROCK FREE NATIVE SOIL, METALLIC WARNING TAPE AT 12" AND NO ENCASMENT REQUIRED. ALL CONDUITS THAT HAVE CONDUCTORS WITH A POTENTIAL OF 250 VOLT TO GROUND OR GREATER, THAT ARE NOT UNDER ASPHALT AND/OR CONCRETE SHALL REQUIRE 1,500 PSI CONCRETE ENCASMENT, METALLIC WARNING TAPE AT 12" AND A MINIMUM COVER FROM TOP OF ENCASMENT OF 2". ALL CONDUITS THAT HAVE CONDUCTORS WITH A POTENTIAL OF LESS THAN 250 VOLTS TO GROUND, THAT ARE NOT UNDER ASPHALT AND/OR CONCRETE WILL HAVE 3/4" MINIMUM COVER OF NATIVE SOIL, METALLIC WARNING TAPE AT 12" AND NO ENCASMENT REQUIRED.
- INSTALL GALVANIZED RIGID STEEL RISERS & ELBOWS WHERE THEY OCCUR. WRAP GALVANIZED RIGID STEEL BELOW GRADE. PVC SHALL NOT BE INSTALLED ABOVE GRADE.
- CONDUIT INSTALLED ABOVE GRADE SHALL BE MIN. 3/4" TRADE SIZE. CONDUIT BELOW GRADE SHALL BE MIN. 1" TRADE SIZE.
- PROVIDE (4) 1" CONDUIT STUBS FROM NEW ELECTRICAL PANEL TO ACCESSIBLE ATTIC SPACE FOR FUTURE USE.
- CIRCUIT BREAKERS SERVING FIRE ALARM EQUIPMENT SHALL HAVE A RED HANDLE AND LOCK-ON DEVICE.
- HOLES ARE NOT ALLOWED THROUGH TOP PLATES OF BEARING WALLS AND SHEAR WALLS.
- INCLUDE FIRE STOP SYSTEMS REQUIRED FOR ALL WORK AFFECTED BY FIRE RATED ASSEMBLIES.
- INCLUDE ALL WORK REQUIRED TO INVESTIGATE, DEMOLISH, & RECONNECT EXISTING ITEMS.
- ALL LOW VOLTAGE EQUIPMENT SHALL BE DEENERGIZED PRIOR TO DEMO WORK. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO LIFE EQUIPMENT.
- LEAN CONCRETE SHALL BE USED AS BACK FILL WHERE UTILITY TRENCHES EXTEND FROM THE EXTERIOR TO THE INTERIOR LIMITS OF THE BUILDING. LEAN CONCRETE SHALL HAVE A MINIMUM DISTANCE OF 2 FEET LATERALLY ON EACH SIDE OF THE EXTERIOR BUILDING LINE AND A MINIMUM OF 6 INCHES ABOVE FOOTING PENETRATION.

LIGHTING GENERAL NOTES:

- THE CONTRACTOR SHALL PROVIDE A COMPLETE SYSTEM OF LIGHT FIXTURES AND CONTROLS THAT COMPLY WITH THE REQUIREMENTS OF CALIFORNIA ENERGY COMMISSION TITLE 24.
- PROVIDE A COMPLETE AND OPERATIONAL CONTROLS PACKAGE IN LIGHTING AREAS. PROVIDE WALL SWITCHES, SENSORS, POWER PACKS, MISCELLANEOUS APPURTENANCES, FACTORY CABLING, AND FACTORY COMMISSIONING.
- AN EQUAL SUBSTITUTE PACKAGE BY ANOTHER MANUFACTURER MAY BE ACCEPTABLE. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL REQUIRED COMPONENTS. ADDITIONAL WIRING FOR DIMMING OPERATION OF LIGHT FIXTURES, AND ANYTHING ELSE NEEDED FOR A COMPLETE AND OPERATIONAL SYSTEM, SUBMIT SUBSTITUTE PACKAGE, INCLUDING SHOP DRAWINGS, TO ENGINEER FOR REVIEW AND APPROVAL. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY RESULT IN REJECTION OF SUBSTITUTE COMPONENTS.
- THE PLANS GENERALLY SHOW THE LOCATION OF SWITCHES, SENSORS, CONTROL MODULES ETC. ACTUAL LOCATIONS AND INSTALLATION REQUIREMENTS SHALL BE DETERMINED BY THE MANUFACTURER. SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL.
- PROVIDE FACTORY COMMISSIONING, TO INCLUDE COMPLETE CONTROL WIRING/ CALIBRATION/ PROGRAMMING OF LIGHTING CONTROL COMPONENTS.
- LIGHTING SYSTEM ACCEPTANCE TESTING IS REQUIRED AS PER TITLE 24. THE CONTRACTOR SHALL INCLUDE ACCEPTANCE TESTING COSTS IN BID. THE CONTRACTOR IS RESPONSIBLE TO MAKE ANY ADJUSTMENTS NECESSARY TO ACHIEVE ACCEPTANCE.
- LIGHTING FIXTURE COLORS, WHEN NOT SPECIFIED, SHALL BE SELECTED BY THE ARCHITECT'S OFFICE. DO NOT SUBMIT COLORS THAT HAVE NOT BEEN APPROVED BY THE ARCHITECT.

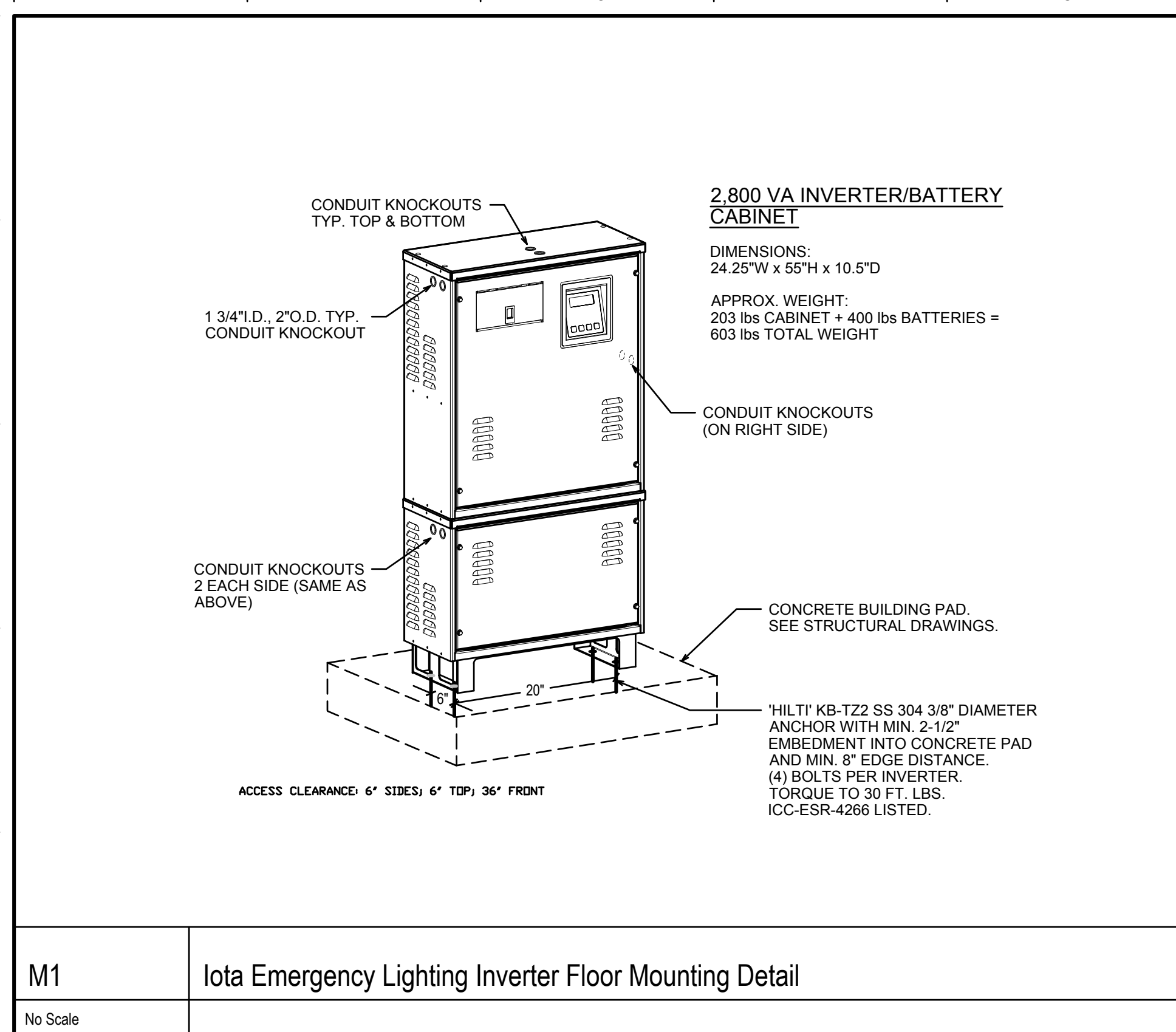
LOW VOLTAGE GENERAL NOTES:

- THE ELECTRICAL CONTRACTOR SHALL CONTACT EACH ELECTRONICS SYSTEM VENDOR AND THOROUGHLY INVESTIGATE THE EXPANDABILITY OF ALL EXISTING SYSTEMS. THE CONTRACTORS BID SHALL INCLUDE ALL REQUIRED COMPONENTS, PROGRAMMING, CABLING, UPGRADES, AND RELATED LABOR AND MATERIALS TO INTEGRATE THE WORK SHOWN IN DIVISIONS 26, 27, 28 DRAWINGS AND SPECIFICATIONS AND PROVIDE FOR FULLY FUNCTIONAL LOW VOLTAGE SYSTEMS.
- EXISTING PULL BOX LOCATIONS ARE DIAGRAMMATIC. FIELD VERIFY EXACT LOCATIONS. ADD CONDUITS TO EXISTING PULL BOXES WHERE INDICATED. REPAIR ANY DAMAGE INCURRED.
- DISCONNECT, REMOVE, REPAIR, AND DETERMINE EXISTING CABLING AS REQUIRED TO INSTALL NEW CABLING IN EXISTING CONDUITS.
- ELECTRONICS SYSTEMS CABLING SHALL BE RUN IN CONDUIT WHERE ATTIC SPACES ARE INACCESSIBLE AND WHERE OPEN CEILINGS OCCUR. CABLING INSTALLED IN ACCESSIBLE ATTIC SPACES SHALL BE RUN ON J-HOOKS.
- TERMINAL CABINETS SHALL BE WEGMANN RMC SERIES, OR EQUAL, W/ MOUNTING PANELS / PLYWOOD BACK BOARD. INSTALL ALL REQUIRED TERMINAL STRIPS, PUNCH DOWN BLOCKS, ETC.
- INSTALL NYLON PULL LINE WITH ALL CABLE RUNS IN UNDERGROUND CONDUITS.

ELECTRICAL SYMBOLS SCHEDULE:

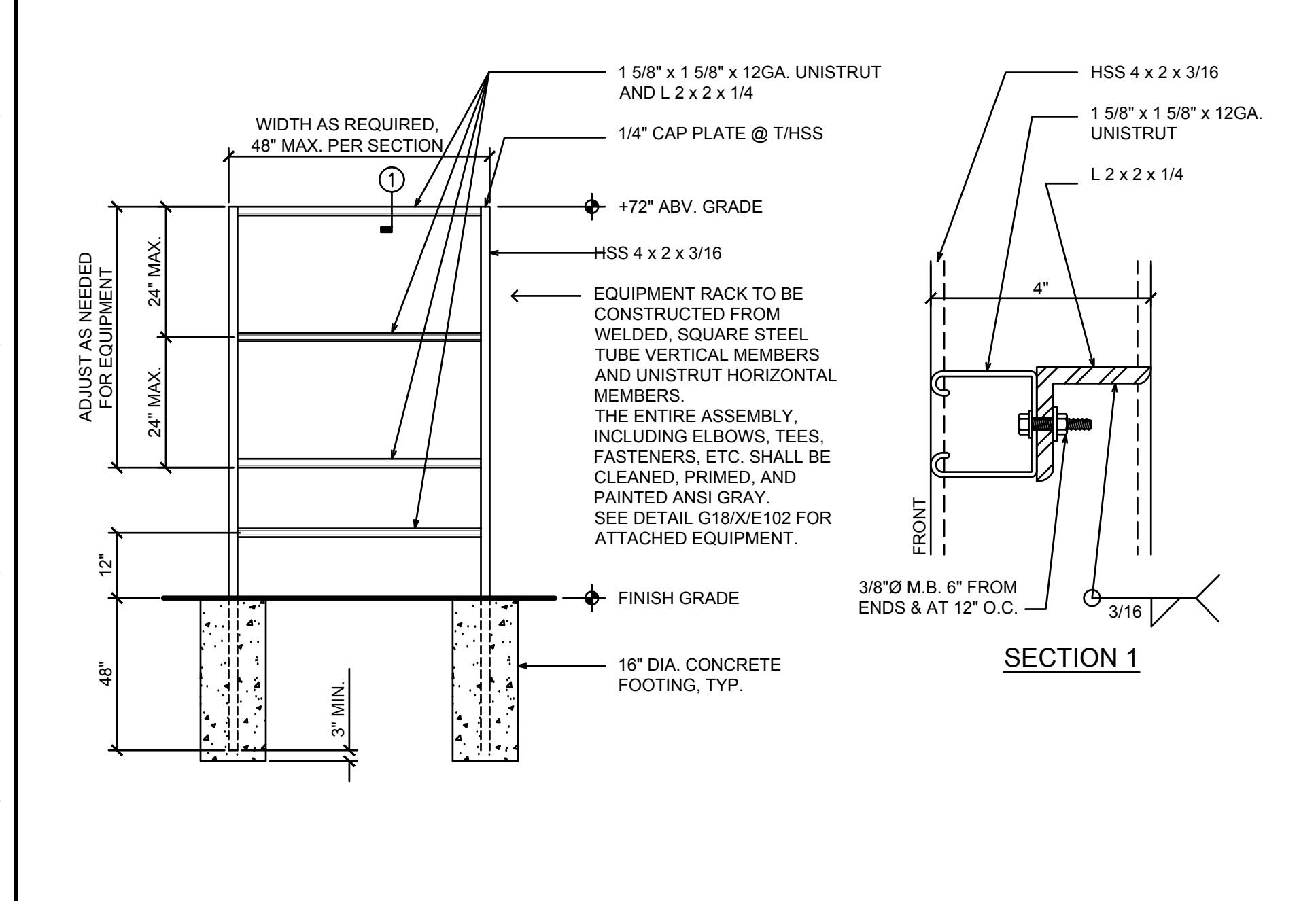
SYMBOL	DESCRIPTION	NOTES
	POLE WITH POST TOP AREA LUMINAIRE	
	POLE WITH SINGLE AREA LUMINAIRE	
	POLE WITH DOUBLE AREA LUMINAIRES	
	LAY-IN LIGHT FIXTURE	
	SURFACE CEILING LIGHT	
	RECESSED DOWN LIGHT	
	WALL LIGHT	
	EXIT SIGN, CEILING	ARROWS INDICATE CHEVRON DIRECTIONS
	EXIT SIGN, WALL	ARROWS INDICATE CHEVRON DIRECTIONS
	EXIT SIGN, WALL, LOW LEVEL PER CBC 1013.7	ARROWS INDICATE CHEVRON DIRECTIONS
	FIXTURE TYPE 'A'	REFER TO FIXTURE SCHEDULE
	FIXTURE ON EMERGENCY POWER	PROVIDE UNSWITCHED HOT CONDUCTOR
	INVERTER	
	LOW VOLTAGE DRIVER	
	SWITCH AT 48" AFF TO TOP OF BOX	20A 277V QUIET TOGGLE
	WALL MOUNTED DUAL TECH OCCUPANCY SENSOR SWITCH, 0-10V DIMMING, AT 48" AFF TO TOP OF BOX	ROUGH IN WITH 1G BOX PER SWITCH W/ RING, 1" TO ACCESSIBLE ATTIC SPACE
	WALL MOUNTED ULTRASONIC OCCUPANCY SENSOR SWITCH, W/ SEPARATE EXHAUST FAN RELAY, AT 48" AFF TO TOP OF BOX	ROUGH IN WITH 1G BOX PER SWITCH W/ RING, 1" TO ACCESSIBLE ATTIC SPACE
	UL924 EMERGENCY CONTROL RELAY, 20A DIMMING OVERRIDE, FUNCTIONAL DEVICES INC DESIGN	MOUNT IN ACCESSIBLE ATTIC OR INCONSPICUOUS LOCATION, HIGH ON WALL, WHEN NO CEILING
	DIGITAL ON/OFF SWITCH, AT 48" AFF TO TOP OF BOX	nLIGHT AIR SYSTEM
	DIGITAL DIMMER SWITCH, AT 48" AFF TO TOP OF BOX	nLIGHT AIR SYSTEM
	DIGITAL DIMMER SWITCH W/ INTEGRAL OCCUPANCY SENSOR AND PHOTOSENSOR AT 48" AFF TO TOP OF BOX	nLIGHT AIR SYSTEM
	DIGITAL "FRESCO" GRAPHICAL TOUCHSCREEN DIMMING CONTROLLER AT 48" AFF TO TOP OF BOX	nLIGHT AIR SYSTEM, ROUGH IN WITH 1G BOX & RING, 1" TO ACCESSIBLE ATTIC. CONNECT TO LOCAL 120V POWER.
	DIGITAL OCCUPANCY SENSOR W/ PHOTOSENSOR DUAL-TECHNOLOGY CEILING MOUNT	nLIGHT AIR SYSTEM nCMS PTD 10
	DIGITAL OCCUPANCY SENSOR W/ PHOTOSENSOR DUAL-TECHNOLOGY WALL MOUNT	nLIGHT AIR SYSTEM, ROUGH IN WITH 1G BOX & RING, 1" TO ACCESSIBLE ATTIC
	DIGITAL GATEWAY	nLIGHT AIR SYSTEM, PROVIDE (1) GATEWAY AT EACH BUILDING AND CONNECT TO LAN. PROVIDE BOUTLET AT GATEWAY LOCATION FOR GATEWAY POWER SUPPLY.
	DIGITAL BRIDGE	nLIGHT SYSTEM, PROVIDE (1) BRIDGE FOR EACH (6) nLIGHT ZONES. PROVIDE OUTLET IN CEILING FOR BRIDGE POWER SUPPLY.
	DIMMING POWER PACK VERIFY 0-10V, 2- OR 3-WIRE, M.V. OR ELV BY FIXTURE	nLIGHT AIR SYSTEM, MOUNT IN ACCESSIBLE ATTIC OR INCONSPICUOUS, HIGH ON WALL, WHEN NO CEILING
	DIMMING POWER PACK W/ EMERGENCY CONTROL RELAY, VERIFY 0-10V, 2- OR 3-WIRE, M.V. OR ELV BY FIXTURE	nLIGHT AIR SYSTEM, MOUNT IN ACCESSIBLE ATTIC OR INCONSPICUOUS, HIGH ON WALL, WHEN NO CEILING
	DMX CONTROLLER PACK	nLIGHT SYSTEM, MOUNT IN ACCESSIBLE ATTIC OR INCONSPICUOUS, HIGH ON WALL, WHEN NO CEILING
	RECEPTACLE RELAY CONTROLLED BY OCCUPANCY SENSOR	nLIGHT AIR SYSTEM, MOUNT IN ACCESSIBLE ATTIC OR INCONSPICUOUS, HIGH ON WALL, WHEN NO CEILING. (1) RELAY PER CIRCUIT IN EACH CONTROLLED AREA.
	PRIMARY DAYLIGHT ZONE BOUNDARY	
	SECONDARY DAYLIGHT ZONE BOUNDARY	
	TERMINAL CABINET	
	DATA OUTLET (RJ-45 CAT6) WITH 2 JACKS AT 48" AFF, U.O.N.	4-11/16" SQ. BOX, 1G RING, MODULAR PLATE, & 1" TO ACCESSIBLE ATTIC SPACE. PULL CABLING TO RESPECTIVE PATCH PANEL AND TERMINATE JACKS AT EACH END. REFER TO SPECIFICATIONS.
	(1) DATA JACKS (RJ-45 CAT6) FOR WIRELESS ACCESS POINT	
	WALL MOUNT ANALOG TELEPHONE OUTLET AT 48" AFF, U.O.N.	1G BOX, 1G RING, MODULAR PLATE, & 1" TO ACCESSIBLE ATTIC SPACE.
	WALL MOUNT DATA/TELEPHONE OUTLET AT 48" AFF, U.O.N.	4-11/16" SQ. BOX, 1G RING, MODULAR PLATE, & 1" TO ACCESSIBLE ATTIC SPACE. PULL CABLING TO RESPECTIVE PATCH PANEL AND TERMINATE JACKS AT EACH END. REFER TO SPECIFICATIONS.
	"MAIN DISTRIBUTION FRAME"/"MAIN CROSS-CONNECT"	
	"INTERMEDIATE DISTRIBUTION FRAME"/"HORIZONTAL CROSS-CONNECT"	
	"TEL SYSTEM HEAD END"	INSTALL AT BACK OF IDF CABINET
	"TEL SYSTEM TERMINAL BLOCK"	
	INTRUSION DOOR/WINDOW CONTACT	PROVIDE 12" TO ACCESSIBLE ATTIC SPACE ACCESSIBLE ATTIC SPACE
	INTRUSION PIR MOTION SENSOR AT CEILING	ROUGH IN WITH 1G BOX & 1/2" TO ACCESSIBLE ATTIC SPACE
	INTRUSION LONG RANGE MOTION SENSOR AT CEILING	ROUGH IN WITH 1G BOX & 1/2" TO ACCESSIBLE ATTIC SPACE
	INTRUSION AUDIO DETECTOR AT WALL	ROUGH IN WITH 1G BOX & 1/2" TO ACCESSIBLE ATTIC SPACE
	INTRUSION GLASS BREAK SENSOR AT CEILING	ROUGH IN WITH 1G BOX & 1/2" TO ACCESSIBLE ATTIC SPACE
	INTRUSION STAFF PANIC BUTTON	ROUGH IN WITH 1G BOX & 1/2" TO ACCESSIBLE ATTIC SPACE
	INTRUSION KEY PAD AT 48" AFF TO TOP OF BOX	ROUGH IN WITH 1G BOX & 1/2" TO ACCESSIBLE ATTIC SPACE
	SURVEILLANCE (CCTV) CAMERA EXACT LOCATIONS DETERMINED IN FIELD PER OWNER	JUNCTION BOX WITH 1" TO ACCESSIBLE ATTIC SPACE. PROVIDE (2) CAT6 CABLES TO EACH CAMERA. VERIFY REQUIREMENTS AND LOCATIONS PRIOR TO ROUGH-IN.
	SURVEILLANCE (CCTV) DVR	REFER TO SPECIFICATIONS
	"INTRUSION SYSTEM MAIN PANEL"	
	"INTRUSION SYSTEM TERMINAL BLOCK"	

SYMBOL	DESCRIPTION	NOTES
	SWITCHBOARD	REFER TO POWER SINGLE LINE DIAGRAM.
	POWER PANEL	REFER TO PANEL SCHEDULE AND E13X/E103.
	JUNCTION BOX	4-11/16" SQUARE BOX & COVER PLATE MIN.
	DISCONNECT SWITCH, FUSIBLE	DISCONNECT FUSING TO BE PER NAMEPLATE DATA.
	COMBINATION STARTER/DISCONNECT SWITCH	REFER TO MECH. PLANS & SPECS.
	MOTOR	REFER TO MECH. PLANS & SPECS.
	EXHAUST FAN, CEILING MOUNTED	REFER TO MECH. PLANS & SPECS.
	SINGLE CONVENIENCE OUTLET AT 15" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, NEMA GROUNDED TAMPER RESISTANT
	DUPLEX CONVENIENCE OUTLET AT 15" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, NEMA GROUNDED TAMPER RESISTANT, LEVITON #FD20-W
	QUADPLEX CONVENIENCE OUTLET AT 15" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, NEMA GROUNDED TAMPER RESISTANT, LEVITON #FD20-W
	GFI DUPLEX OUTLET AT 15" AFF TO BOTTOM OF BOX, U.O.N.	20A SPEC. GRADE, NEMA GROUNDED TAMPER RESISTANT, LEVITON #GFI20-W
	WEATHERPROOF, GFI DUPLEX OUTLET AT 15" AFF TO BOTTOM OF BOX, U.O.N. W/ WEATHERPROOF IN USE, METAL, LOCKABLE TYPE COVER	20A SPEC. GRADE, NEMA GROUNDED TAMPER RESISTANT, LEVITON #GFI20-W
	DUPLEX CONVENIENCE OUTLET AT 15" AFF TO BOTTOM OF BOX, U.O.N. SPLIT-WIRED WITH UNSWITCHED AND SWITCHED BY OCCUPANCY SENSOR	20A SPEC. GRADE, NEMA GROUNDED TAMPER RESISTANT, LEVITON #FD20-W/WH CODE COMPLIANT MARKING REQUIRED
	QUADPLEX CONVENIENCE OUTLET, CONTROLLED AT 15" AFF TO BOTTOM OF BOX, U.O.N. BY ONE UNSWITCHED AND ONE SWITCHED BY OCCUPANCY SENSOR	20A SPEC. GRADE, NEMA GROUNDED TAMPER RESISTANT, LEVITON #FD20-W/WH CODE COMPLIANT MARKING REQUIRED
	SPECIAL EQUIPMENT OUTLET AT 15" AFF TO BOTTOM OF BOX, U.O.N.	VERIFY REQTS W/ EQUIPMENT VENDOR TAMPER RESISTANT
	POWER POLE, 2-COMPARTMENT FLOOR BOX	4-GANG BOX WITH CAST ALUMINUM TRIM PLATES
	CORD REEL, DUPLEX OUTLET (DO), QUAD OUTLET (QO), DROP LIGHT (DL) W/ NEMA 5-20R OUTLET. SEE ARCHITECTURAL FOR INSTALLATION.	VERIFY LOCATION PRIOR TO ROUGH-IN. HUBBELL #HBL2513 SERIES W/ 25 FT CORD RATED FOR 20A AT 120V 10 W/ NEMA 5-20R OUTLET. SEE ARCHITECTURAL FOR INSTALLATION.
	12" CU GROUND BUS BAR	WITH #6 GREEN GROUND WIRE TO G.E.C.
	PUBLIC ADDRESS SPEAKER, CEILING MOUNTED	HOMERUN SPEAKER CABLE TO PA TERMINAL BLOCK
	PUBLIC ADDRESS SPEAKER, WALL MOUNTED	HOMERUN SPEAKER CABLE TO PA TERMINAL BLOCK
	WP OUTDOOR PUBLIC ADDRESS SPEAKER	HOMERUN SPEAKER CABLE TO PA TERMINAL BLOCK
	PUBLIC ADDRESS SPEAKER & WIRELESS LOCK COMBINATION, WALL MOUNTED	HOMERUN SPEAKER CABLE TO PA TERMINAL BLOCK
	WALL CLOCK	REFER TO SPECIFICATIONS
	MENU BOARD INPUT STATION w/ OUTLET w/ (1) HDMI JACK, AND DATA OUTLET w/ (2) DATA JACKS.	VERIFY LOCATION PRIOR TO ROUGH-IN. PROVIDE 4 11/16" SQ DEEP BOX W/ 2-GANG RING. INSTALL 2" CONDUIT TO TV MENU BOARD LOCATION. HDMI CABLE ORIGINATES FROM TV MENU BOARD LOCATION. PULL DATA TO IDF. (DETAIL A10X/E107)
	TV MENU BOARD LOCATION w/ OUTLET w/ (1) HDMI JACK, AND DATA OUTLET w/ (2) DATA JACKS.	VERIFY LOCATION PRIOR TO ROUGH-IN. PROVIDE 4 11/16" SQ DEEP BOX W/ 2-GANG RING. INSTALL 2" CONDUIT TO ACCESSIBLE ATTIC SPACE. PULL HDMI CABLE TO MENU BOARD INPUT STATION. PULL DATA TO IDF. (DETAIL A10X/E107)
	AV SYSTEM WALL SPEAKER	VERIFY LOCATION PRIOR TO ROUGH-IN. REFER TO SPECIFICATIONS.
	(2) XLR MICROPHONE INPUTS AND 3.5mm TRS INPUT	
	POOL AREA AUDIO SYSTEM SPEAKER	VERIFY LOCATION PRIOR TO ROUGH-IN.
	ASSISTIVE LISTENING SYSTEM ANTENNA	VERIFY LOCATION PRIOR TO ROUGH-IN.
	WIRELESS MICROPHONE ANTENNA	VERIFY LOCATION PRIOR TO ROUGH-IN.
	"P.A. SYSTEM HEAD END"	
	"P.A. SYSTEM TERMINAL BLOCK"	
	FIRE/SMOKE DAMPER	PROVIDE 120V F.A. CIRCUIT TO DAMPER VIA DEDICATED F.A. RELAY
<		



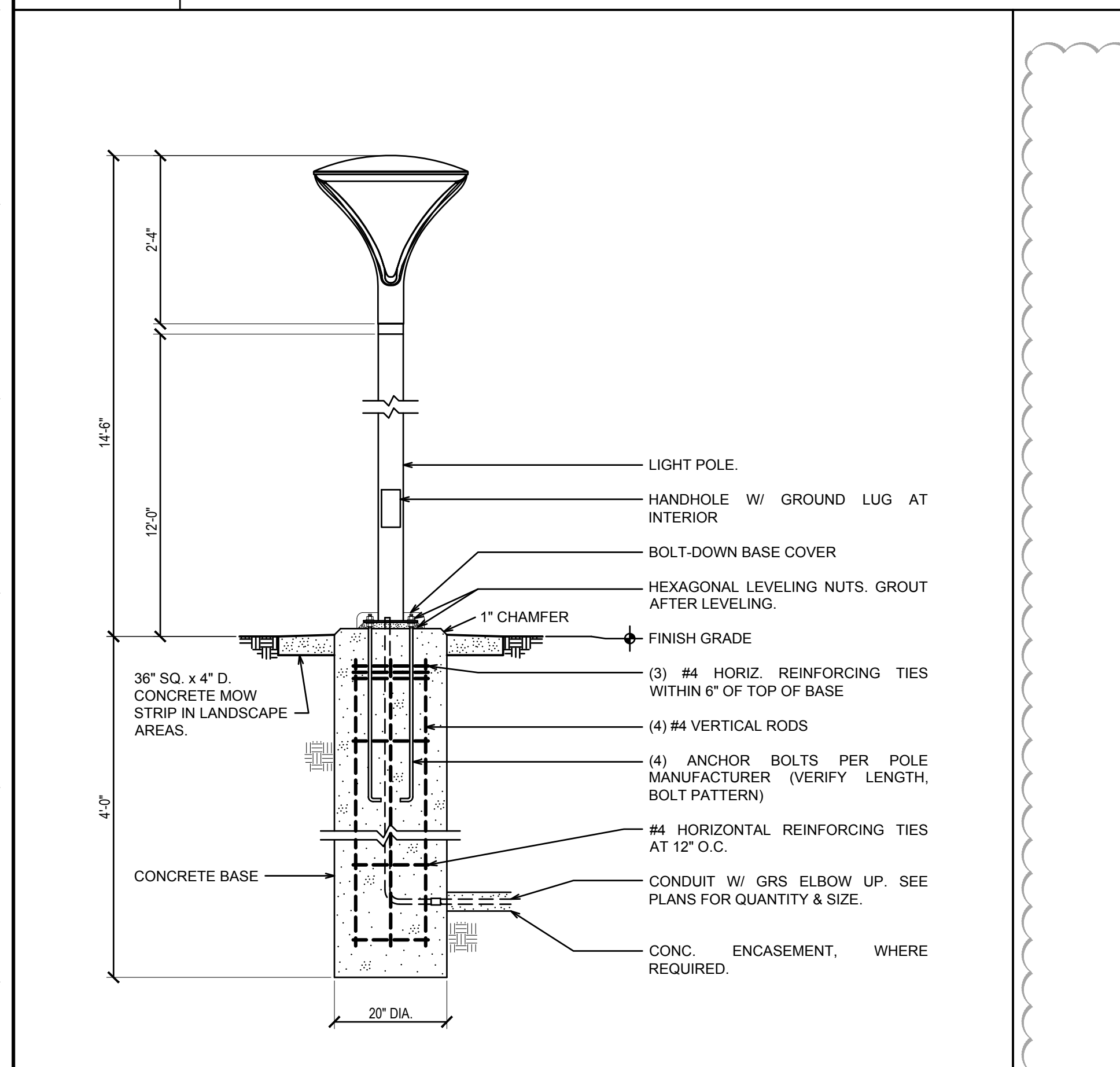
M1 Iota Emergency Lighting Inverter Floor Mounting Detail

No Scale



G1 Free Standing Equipment Pedestal Detail

No Scale



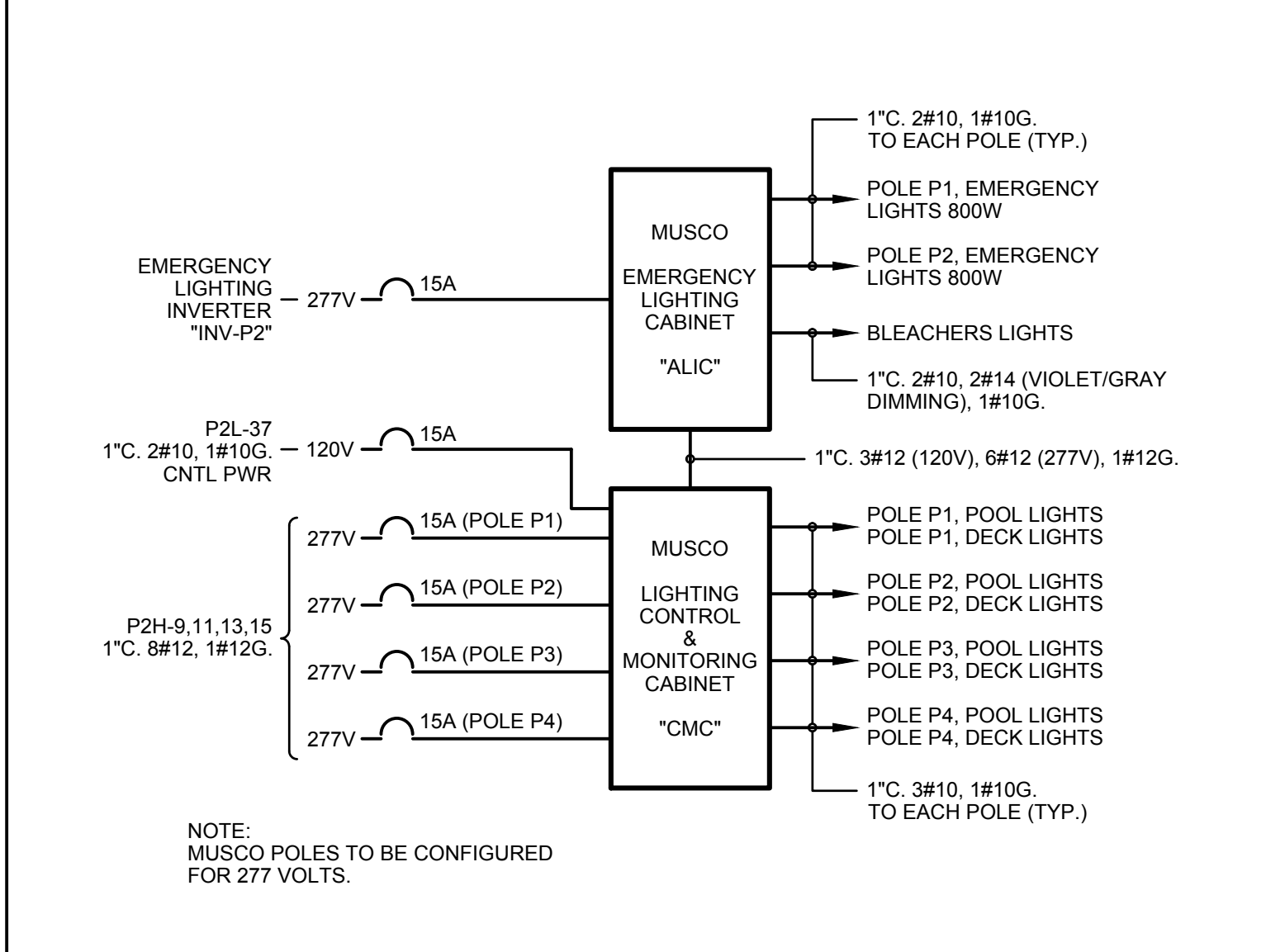
A1 Pedestrian Area Pole Light Concrete Base Detail

No Scale

TYPE OF SPACE	MANUAL ON/OFF OVERSEER DIMMING SWITCH	AUTOMATIC DAYLIGHT DIMMING WHEN AVAILABLE	OCCUPANCY SENSOR ON 10/70%	OCCUPANCY SENSOR SENSITIVE TO 15MIN. AFTER 10MIN. OCCUPANCY	GATEWAY OPEN HOURS SCHEDULE ON	GATEWAY CLOSED & HOLIDAY HOURS SCHEDULE OFF	GATEWAY SHADOWING SWITCHES DURING OPEN HOURS	COLOR TOUCHSCREEN WITH AT LEAST 4 SCENES	REMOTE CONTROL CONTROL DRAKE SWITCH	15MIN. RESPONSE CAPABLE	ASTRONOMIC TIMELOCK ON/OFF	ASTRONOMIC TIMELOCK DIMMING	ASTRONOMIC TIMELOCK AIR RELAYS
ENTRY / LOBBY	X	X	X	X	X	X	X	X	X	X	X	X	X
CORRIDOR	X	X	X	X	X	X	X	X	X	X	X	X	X
OFFICE	X	X	X	X	X	X	X	X	X	X	X	X	X
CLASSROOM	X	X	X	X	X	X	X	X	X	X	X	X	X
CONFERENCE ROOM	X	X	X	X	X	X	X	X	X	X	X	X	X
MULTI-PURPOSE	X	X	X	X	X	X	X	X	X	X	X	X	X
GYMNASIUM	X	X	X	X	X	X	X	X	X	X	X	X	X
CAFETERIA	X	X	X	X	X	X	X	X	X	X	X	X	X
KITCHEN	X	X	X	X	X	X	X	X	X	X	X	X	X
KITCHENETTES IN OFFICES	X	X	X	X	X	X	X	X	X	X	X	X	X
COPY ROOMS	X	X	X	X	X	X	X	X	X	X	X	X	X
LARGE RESTROOM	X	X	X	X	X	X	X	X	X	X	X	X	X
STAIRWELLS	X	X	X	X	X	X	X	X	X	X	X	X	X
STORAGE <100 S.F.	X	X	X	X	X	X	X	X	X	X	X	X	X
ELECTRICAL ROOM	X	X	X	X	X	X	X	X	X	X	X	X	X
OTHER	X	X	X	X	X	X	X	X	X	X	X	X	X
BUILDING >10,000 S.F.	X	X	X	X	X	X	X	X	X	X	X	X	X
BUILDING EXTERIOR	X	X	X	X	X	X	X	X	X	X	X	X	X
PEDESTRIAN WALKS	X	X	X	X	X	X	X	X	X	X	X	X	X
PARKING LOT	X	X	X	X	X	X	X	X	X	X	X	X	X

L6 Lighting Control Matrix

No Scale



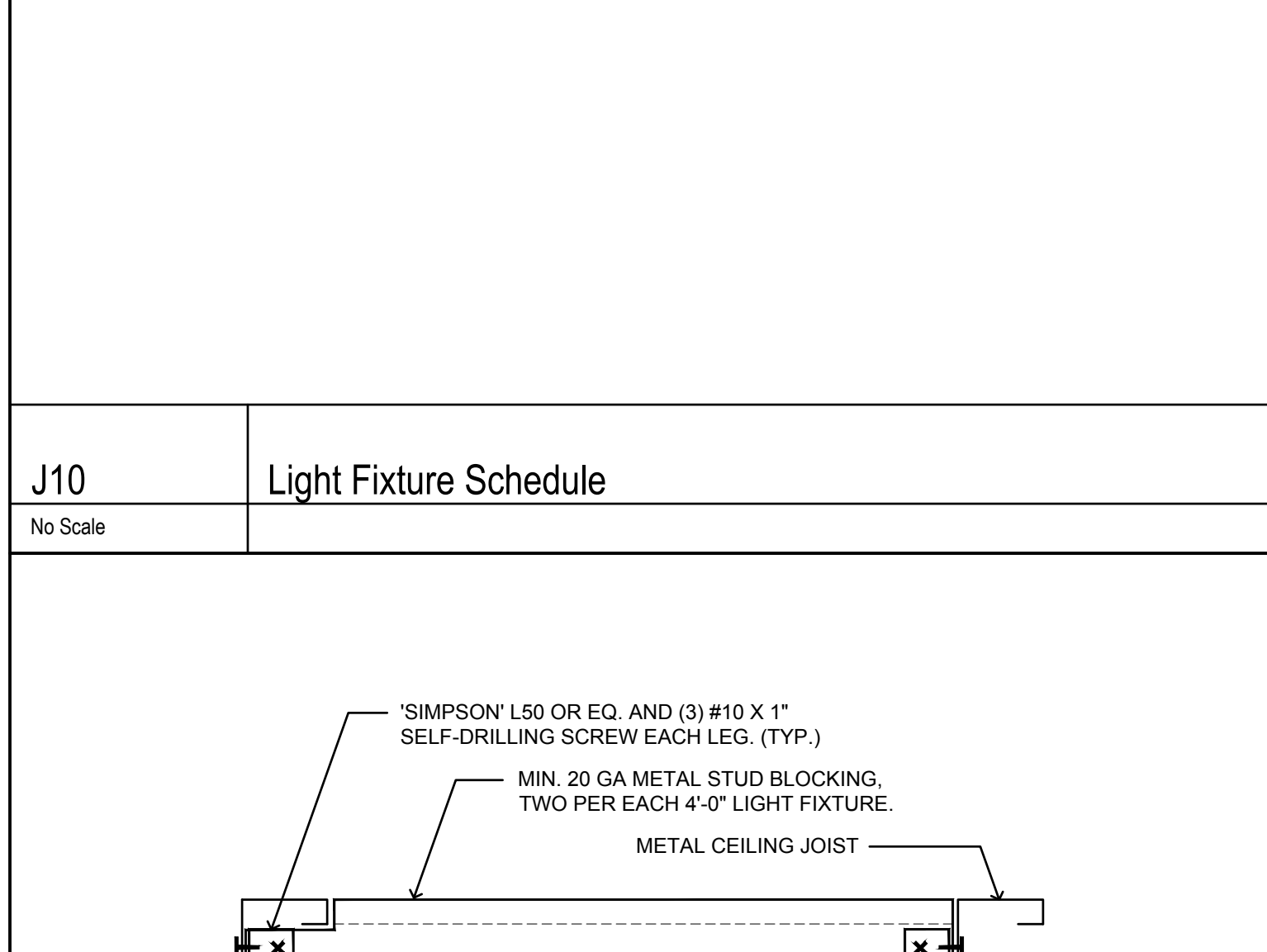
G6 MUSCO Control & Monitoring Cabinet Connections Diagram

No Scale

TYPE	MANUFACTURER	CATALOG NO.	LAMPING	WATTS	VOLTS	MOUNTING	DETAIL	REMARK
A4	PRUDENTIAL	BPR03 REC FLSH LED35-90 S0 4' TMW SAL LP SC UNV X3 DM01	LED	31.2	120-277V	FLUSH	MFG'R	
A12	PRUDENTIAL	BPR03 REC FLSH LED35-90 S0 12' TMW SAL LP SC UNV X3 DM01	LED	93.6	120-277V	FLUSH	MFG'R	
A12E	PRUDENTIAL	BPR03 REC FLSH LED35-90 S0 12' TMW SAL LP SC UNV X3 DM01 EMC	LED	93.6	120-277V	FLUSH	MFG'R	SECTION SHOWN ON PLANS CONNECTED TO EM INVERTER
A20E	PRUDENTIAL	BPR03 REC FLSH LED35-90 S0 20' TMW SAL LP SC UNV X3 DM01 EMC	LED	156.0	120-277V	FLUSH	MFG'R	SECTION SHOWN ON PLANS CONNECTED TO EM INVERTER
AP4	PRUDENTIAL	BPR03 REC FLSH LED35-90 S0 4' TMW WWF LP SC UNV X3 DM01	LED	31.2	120-277V	FLUSH	MFG'R	
AP8	PRUDENTIAL	BPR03 REC FLSH LED35-90 S0 8' TMW WWF LP SC UNV X3 DM01	LED	62.4	120-277V	FLUSH	MFG'R	
AP12	PRUDENTIAL	BPR03 REC FLSH LED35-90 S0 12' TMW WWF LP SC UNV X3 DM01	LED	93.6	120-277V	FLUSH	MFG'R	
AP16E	PRUDENTIAL	BPR03 REC FLSH LED35-90 S0 16' TMW WWF LP SC UNV X3 DM01 EMC	LED	125.6	120-277V	FLUSH	MFG'R	SECTION SHOWN ON PLANS CONNECTED TO EM INVERTER
C	LUMINAIRE	VPF8 4FT MIN10 50W 35K MVOLT OP WHT	LED	50.0	120-277V	SURFACE	E14/X/E102	
CE	LUMINAIRE	VPF8 4FT MIN10 50W 35K MVOLT OP WHT	LED	50.0	120-277V	SURFACE	E14/X/E102	SAME AS ABOVE BUT CONNECTED TO EM INVERTER
CEB	LUMINAIRE	VPF8 4FT MIN10 50W 35K MVOLT OP WHT EMB310	LED	50.0	120-277V	SURFACE	E14/X/E102	WITH 90 MINUTE EMERGENCY BATTERY PACK
CS	LUMINAIRE	VPF8 4FT MIN10 50W 35K MVOLT OP WHT OCC	LED	50.0	120-277V	SURFACE	E14/X/E102	INTEGRAL OCC SENSOR
C2	LUMINAIRE	VPF8 2FT MIN10 15W 35K MVOLT OP WHT	LED	15.0	120-277V	SURFACE	N/A	(15 LBS.)
D	GOTHAM	EV06SH 35/25 DFRAMF 5MO MVOLT E210 90CRI	LED	24.7	120-277V	RECESSED	A14/X/E102	
P1	GOTHAM	EV06VR 40/25 AR LSS MD PCL MVOLT E210 90CRI SNKL	LED	24.7	120-277V	RECESSED	A14/X/E102	
P1E	GOTHAM	EV06VR 40/25 AR LSS MD PCL MVOLT E210 90CRI SNKL	LED	24.7	120-277V	RECESSED	A14/X/E102	SAME AS ABOVE BUT CONNECTED TO EM INVERTER
P2	LUMINAIRE	FFW1212 MIN10 25W 40K MVOLT OP [COLOR]	LED	25.0	120-277V	WALL	A10/X/E102	(12 LBS.)
P2E	LUMINAIRE	FFW1212 MIN10 25W 40K MVOLT OP [COLOR]	LED	25.0	120-277V	WALL	A10/X/E102	SAME AS ABOVE BUT CONNECTED TO EM INVERTER
P3	LUMINAIRE	VPF8 2FT MIN10 15W 35K MVOLT OP [COLOR]	LED	15.0	120-277V	SURFACE	N/A	(15 LBS.)
P4	LUMENPUSE	(2) LOG RO 277 48 27K WWLFP UMP S1 DIM CRC ETC & DRIVER	LED	68.0	277	SIGN	N/A	(14 LBS.) INSTALL (2) LUMINAIRES PER SIGN IN CHANNEL. INSTALL (1) DRIVER AT INTERIOR OF EACH SIGN BOX.
P5E	LUMINAIRE	SPC4 N8 12 MIN1 10W 40K MVOLT OP [COLOR]	LED	10.0	120-277V	COLUMN	N/A	(9 LBS.) CONNECTED TO EM INVERTER
T	LITHONIA	RADPT LED P5 40K PATH MVOLT PT4 PIR [COLOR] w/ 12 FT POLE	LED	123.0	120-277V	POLE	A1/X/E102	PEDESTRIAN POLE LIGHT
V	LITHONIA	RADPT LED P5 40K SYM MVOLT PT4 PIR [COLOR] w/ 12 FT POLE	LED	123.0	120-277V	POLE	A1/X/E102	

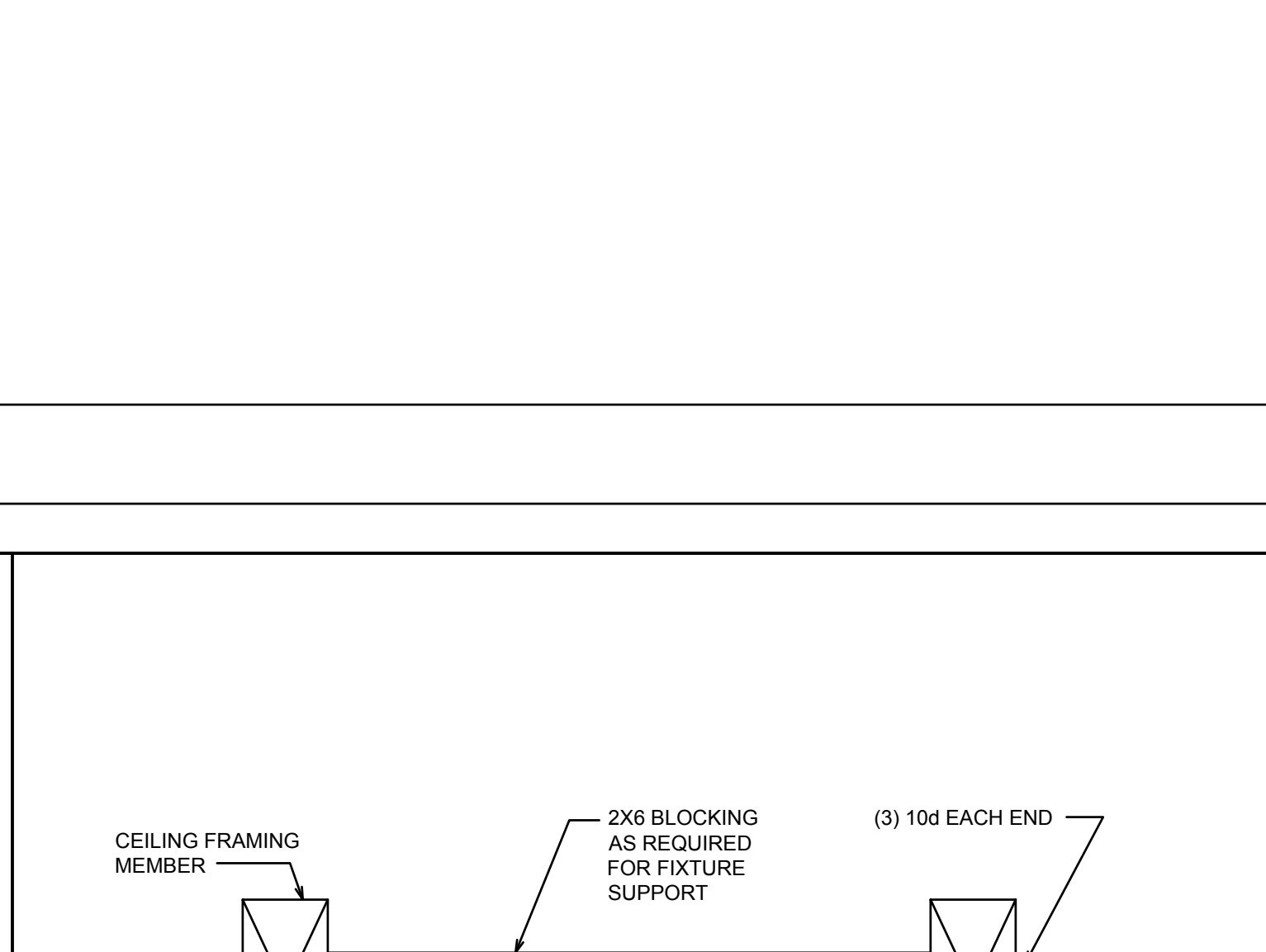
J10 Light Fixture Schedule

No Scale



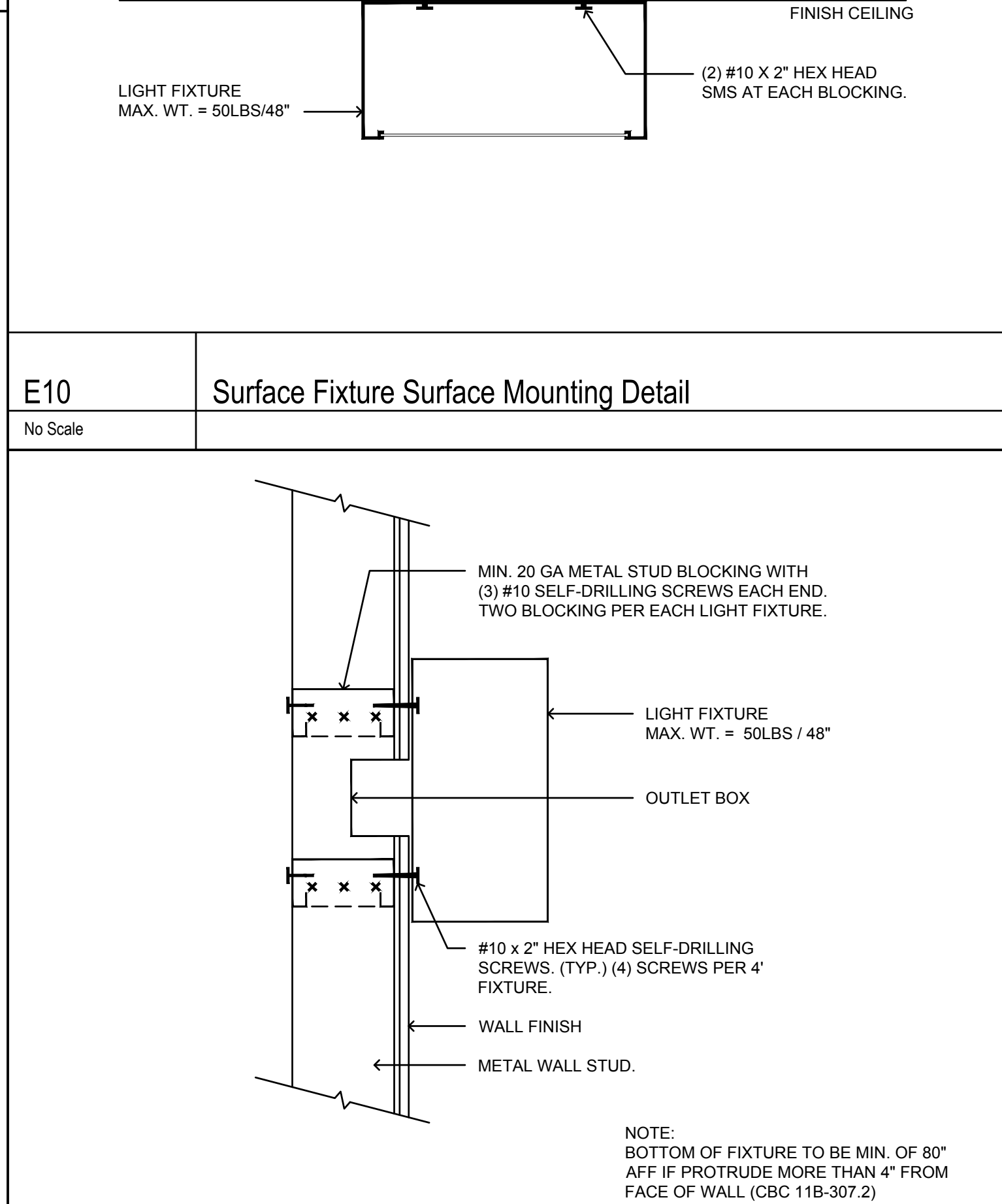
E10 Surface Fixture Surface Mounting Detail

No Scale



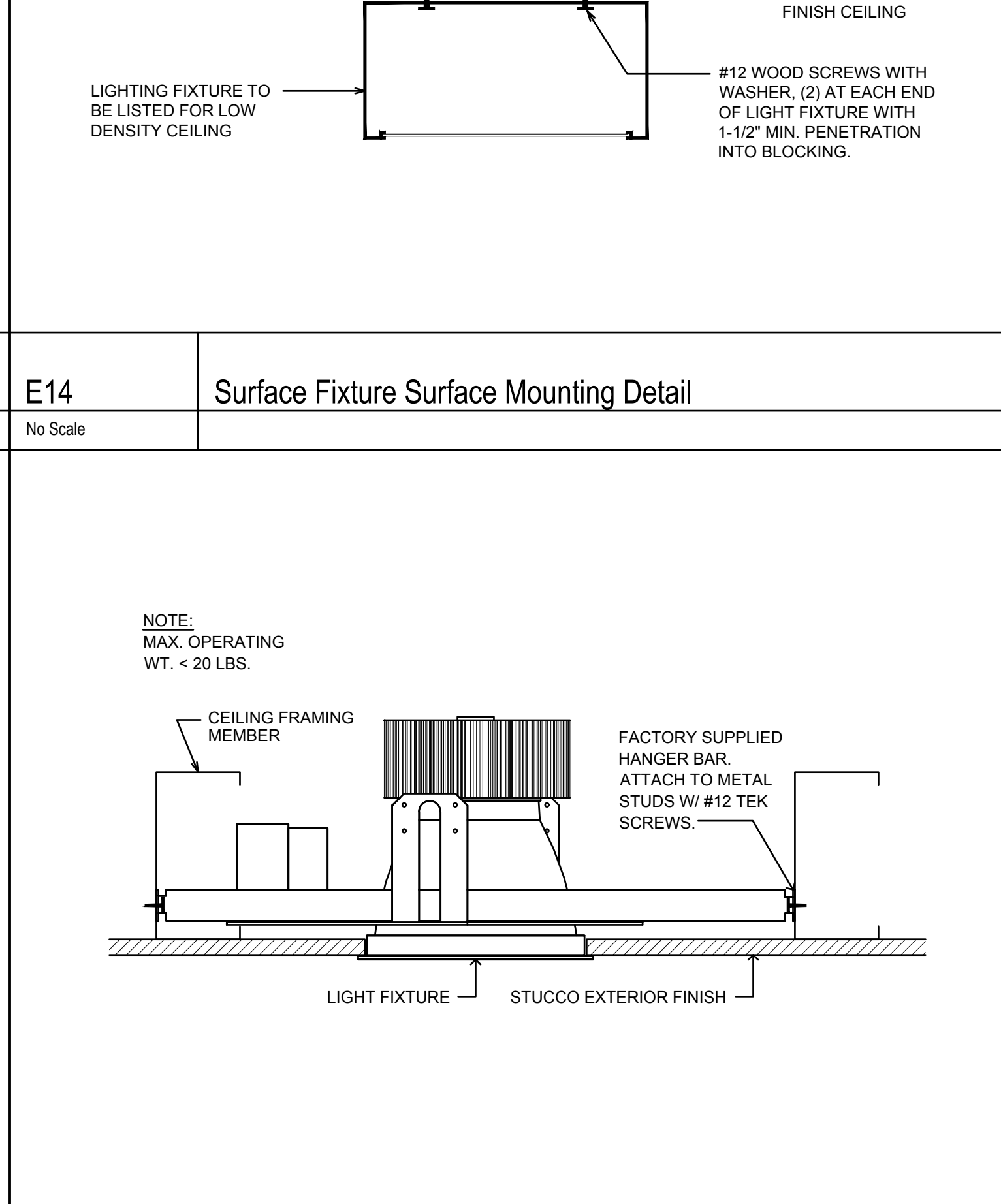
E14 Surface Fixture Surface Mounting Detail

No Scale



A10 Wall Fixture Surface Mounting Detail

No Scale



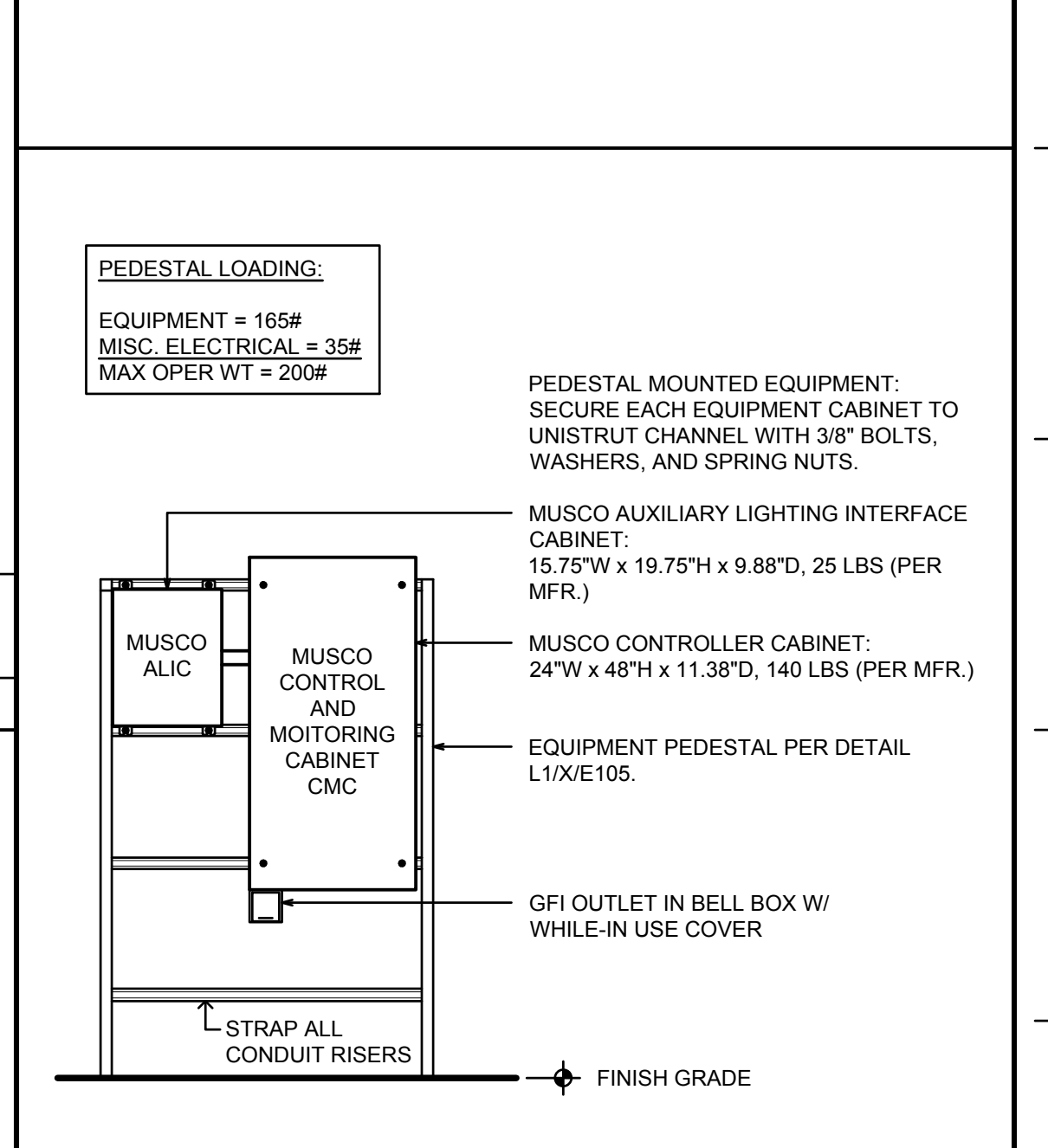
A14 Downlight Fixture Recessed Mounting Detail

No Scale

DSA File No.: 54-H11

DSA Application No.: 02-120251

Agency Approval



G18 Equipment Attachment Detail

No Scale

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Consultant

Mission Oak HS Aquatic Complex
Tulare Joint Union High School District
Tulare, CA 93274

Project

TYPICAL INFORMATION
LIGHTING SYSTEMS - FIXTURE SCHEDULE AND DETAILS

Drawing

darden architects
ARCHITECTURE PLANNING INTERIORS
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Architect

No.	Revision/Submission	Date
1	REVISION_01	05/31/2023

Revision

Designed By: SD Copyright 2022 Darden Architects

Scale: As indicated Drawn By: HDE

Project Number: 2180 Checked By: SD

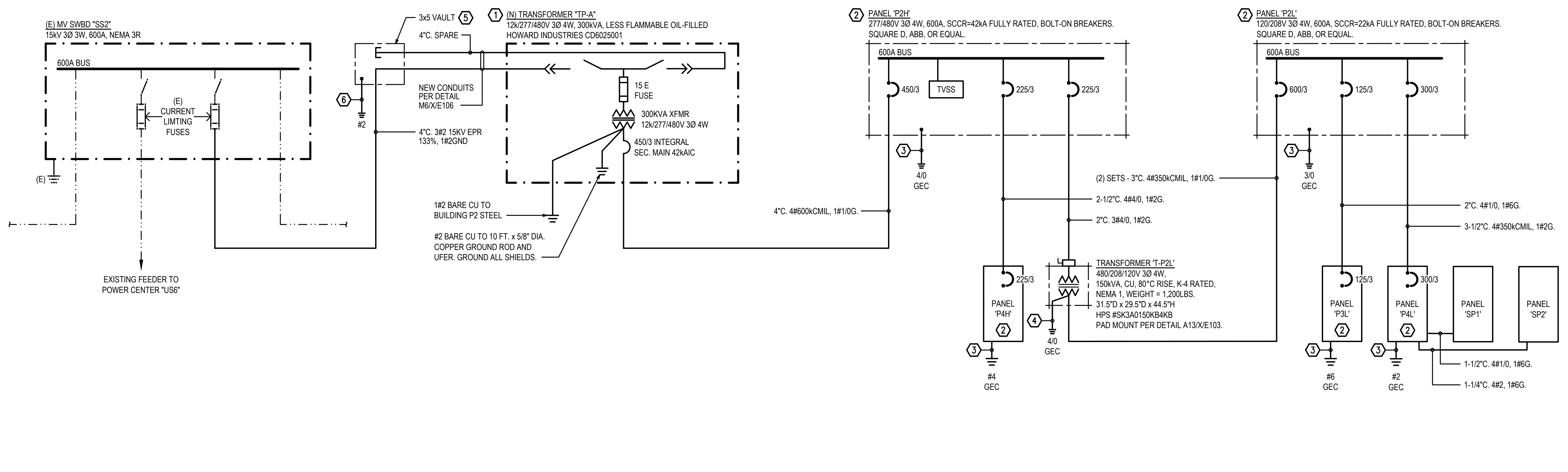
Date: 08/02/2022 Reviewed By: SD

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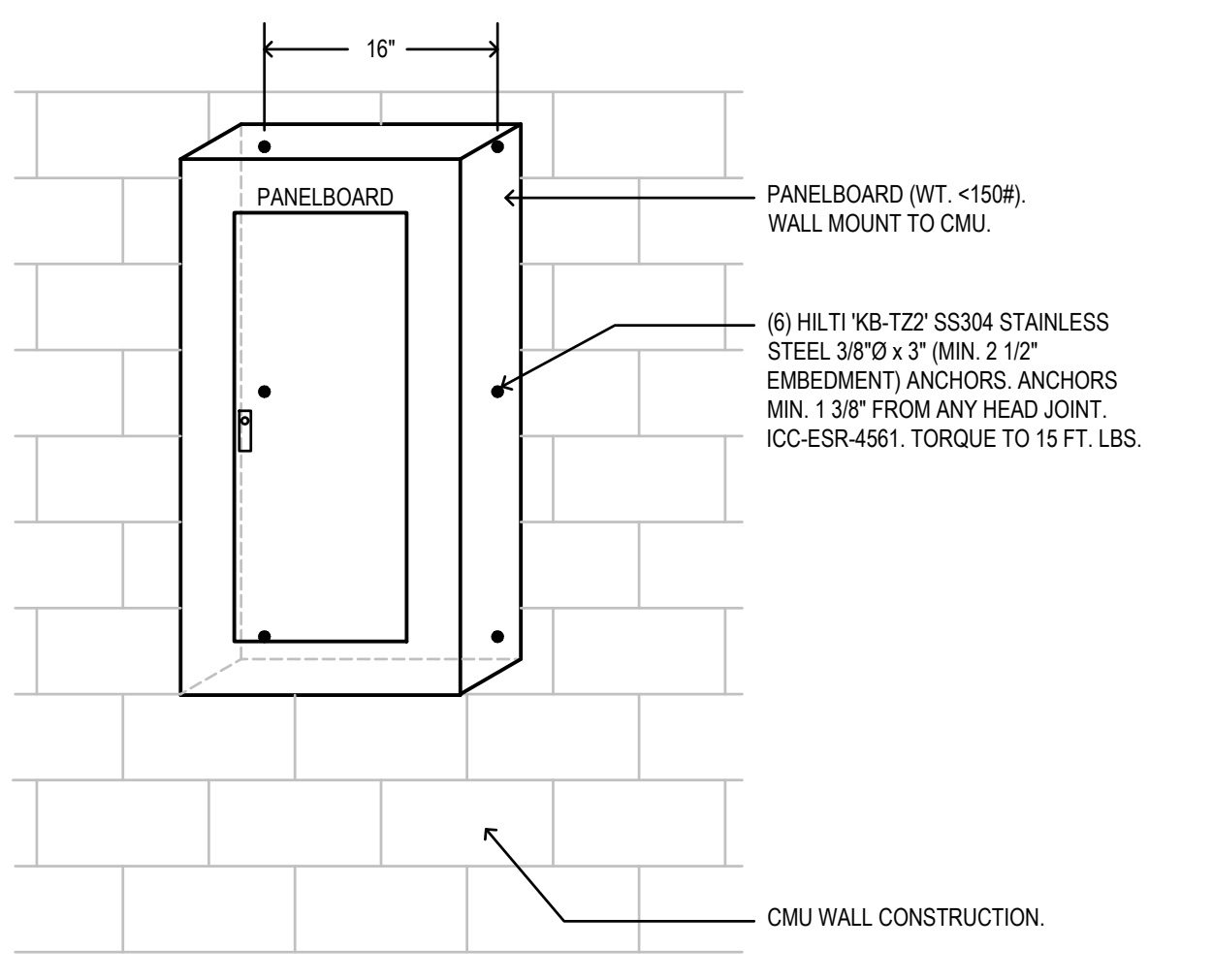
DSA File No.: 54-H11
 DSA Application No.: 02-120251
 Agency Approval

- ### KEYNOTES
1. MEDIUM VOLTAGE TRANSFORMER AND CONCRETE PAD PER ASX/E103. 63.0"W x 67.0"D x 72.0"H; OPERATING WEIGHT = 5,174 LBS.
 2. PANELBOARD, MOUNT PER DETAIL E13X/E103 AT METAL FRAMED WALLS. MOUNT PER G5X/E103 AT CMU WALLS.
 3. GROUND TRANSFORMER PER G9X/E103. GEC SIZE NOTED ON PLANS.
 4. GROUND TRANSFORMER PER A9X/E103. GEC SIZE NOTED ON PLANS.
 5. 3x5 CONCRETE VAULT WITH SPRING-ASSIST, BOLT-DOWN STEEL LIDS.
 6. 5'8" x 10' FT. CU. CLAD GROUND ROD. BOND ALL STEEL COMPONENTS AT VAULT, INCLUDING THE LIDS, WITH #2 CU.

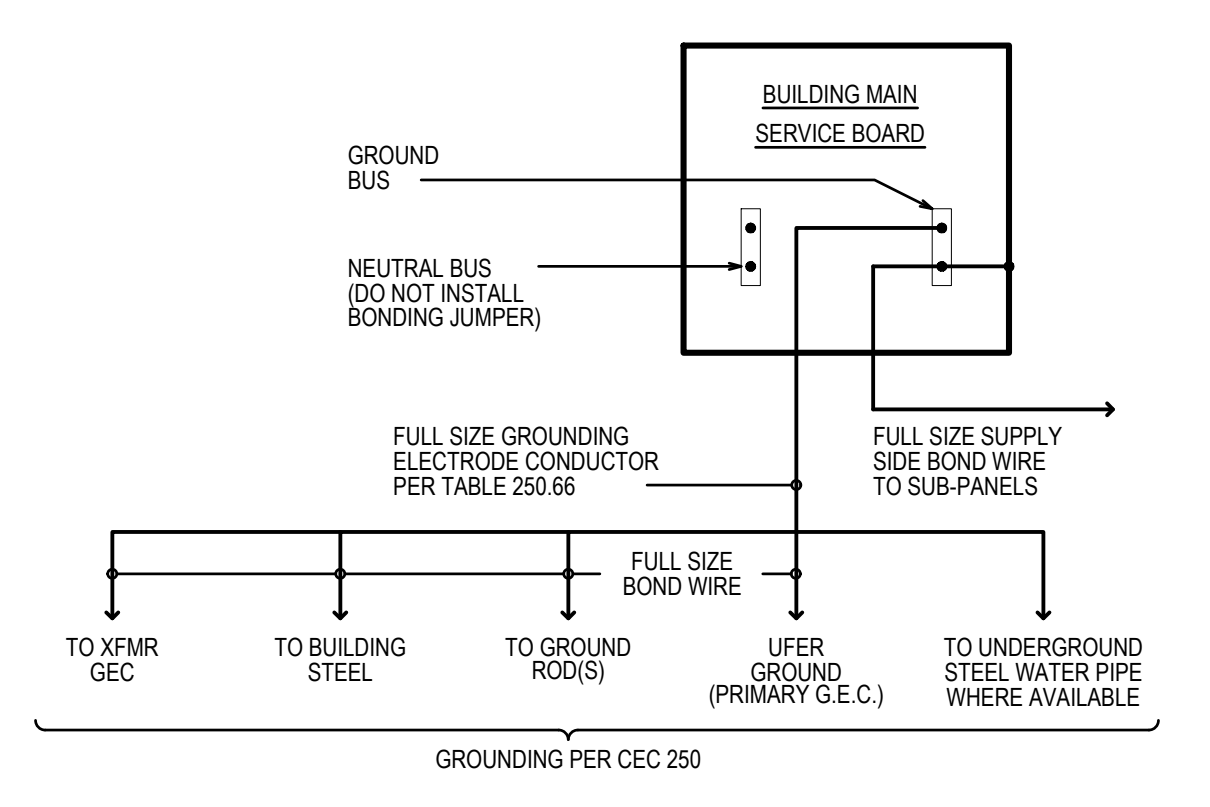


NOTE:
 ALL PANELBOARDS SHALL BE FULLY RATED FOR THE SHORT CIRCUIT CURRENT RATING LISTED. SERIES RATINGS ARE NOT PERMITTED.

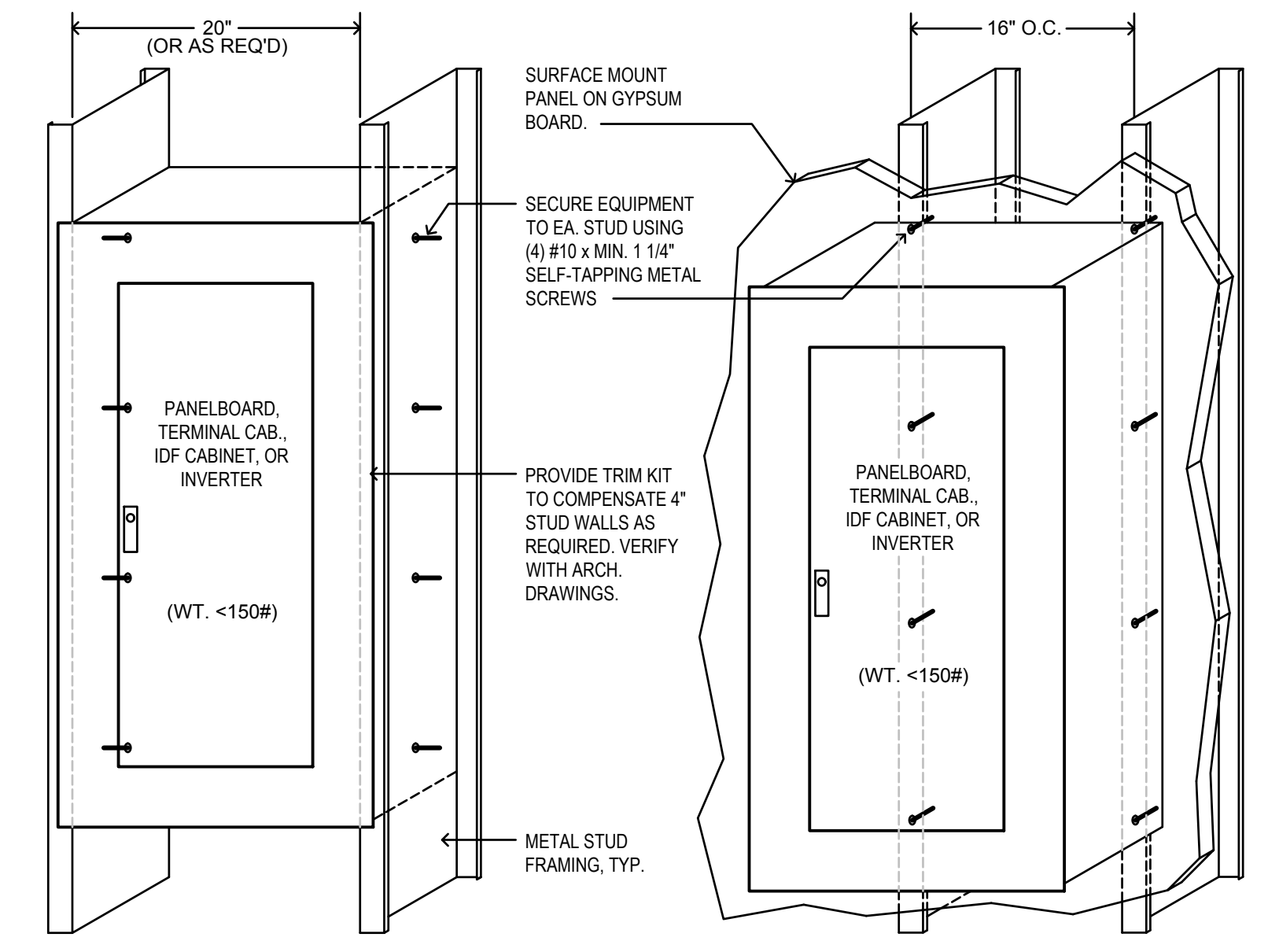
L1 Power Single Line Diagram
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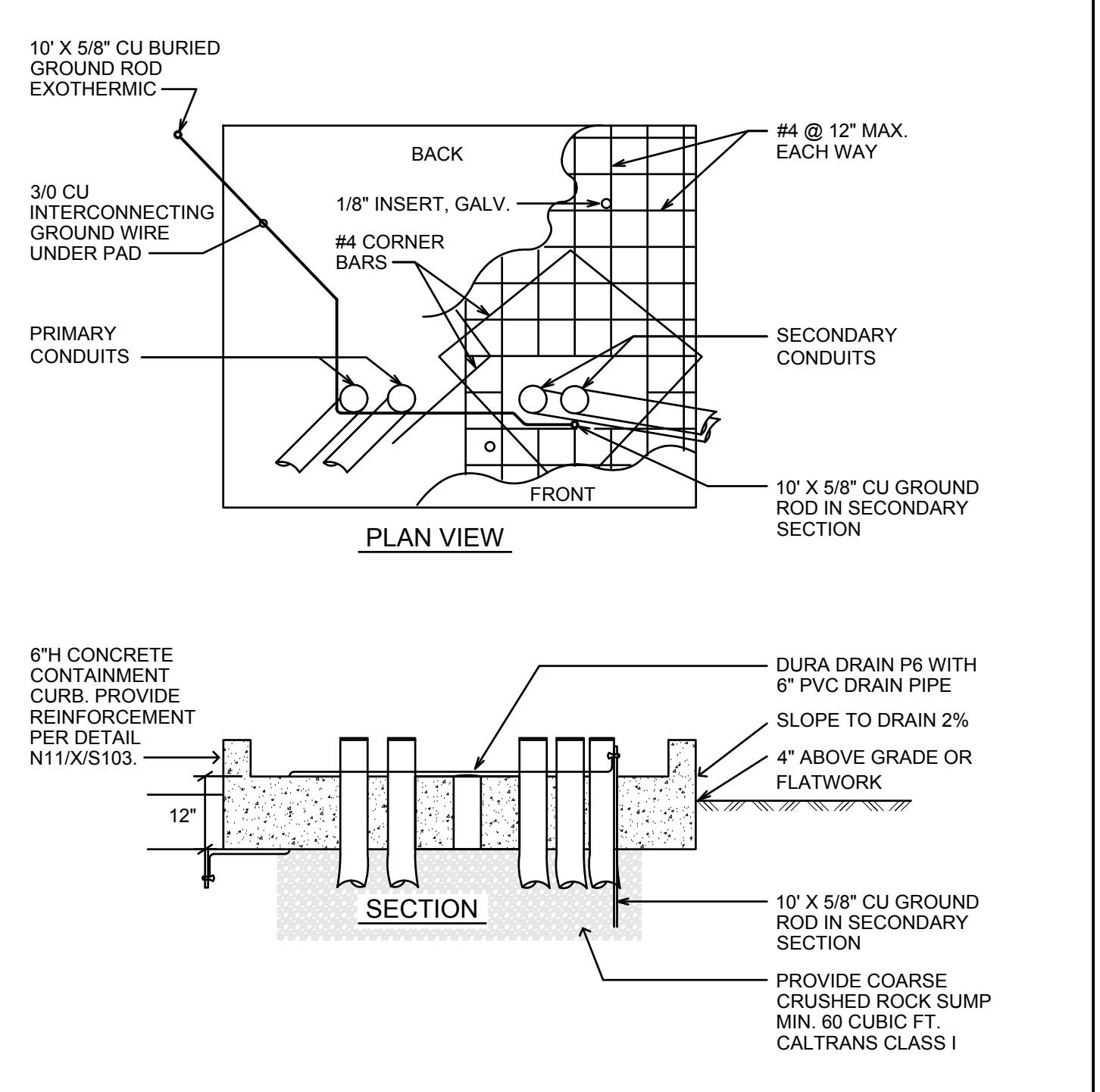
G5 Panel Mounting Detail (CMU Wall)
 No Scale



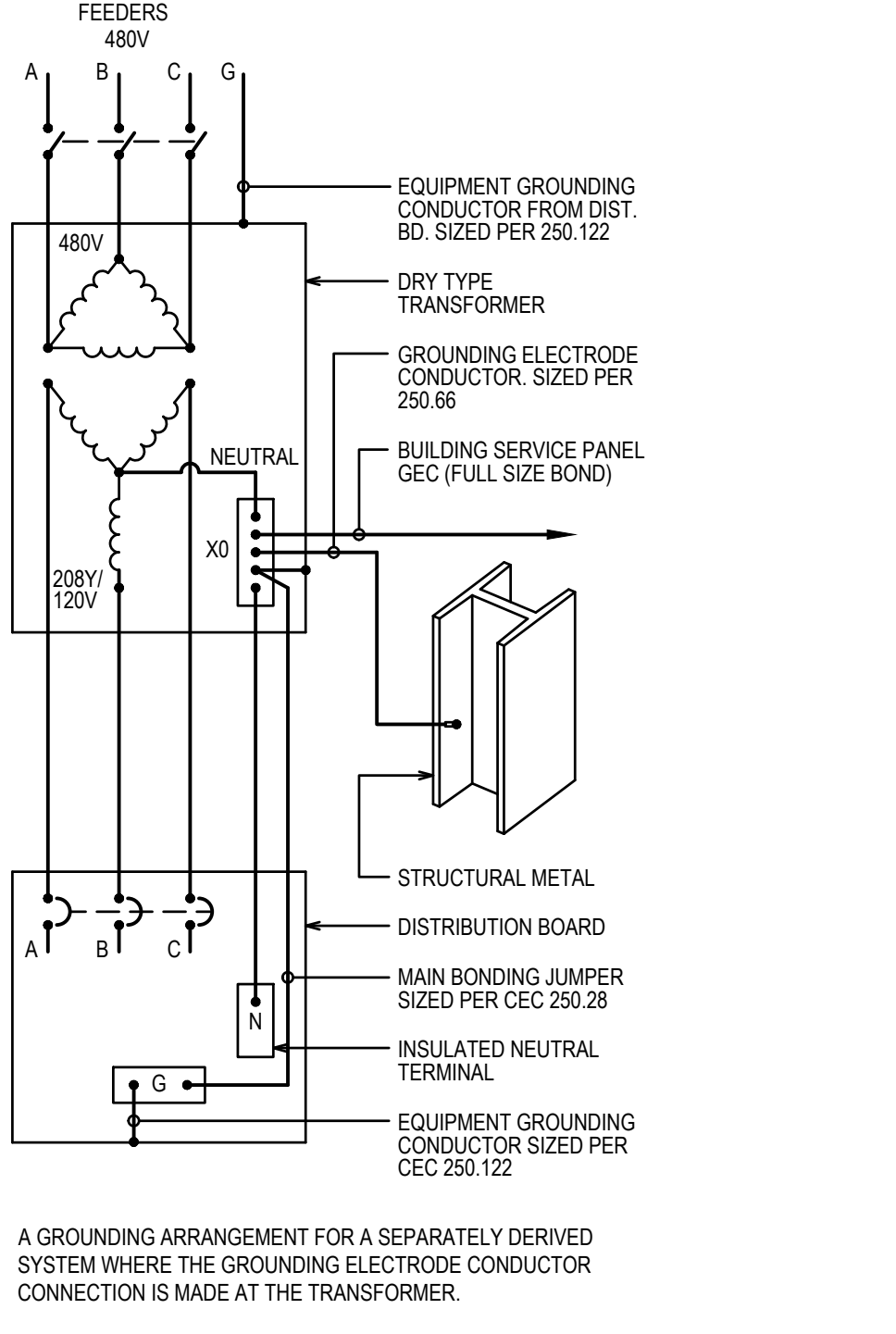
G9 Building Service Grounding Detail
 No Scale



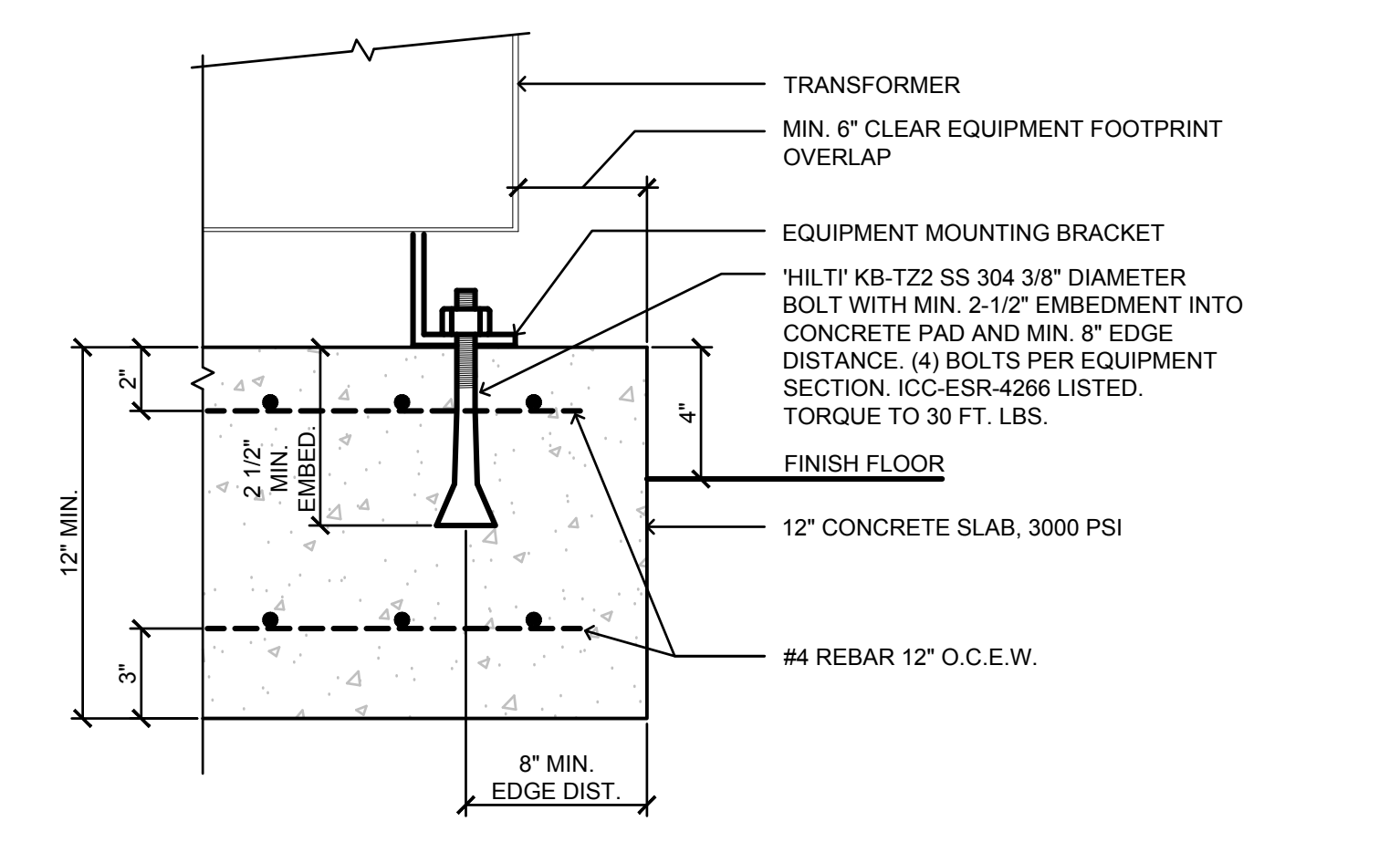
E13 Electrical Panel Mounting Detail
 No Scale



A5 Oil Filled Transformer Pad Detail
 No Scale



A9 Transformer Grounding Detail
 No Scale



A13 Transformer Concrete Pad Mounting Detail
 No Scale

HD
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REGISTERED PROFESSIONAL ENGINEER
 C. SCOTT DAVIDSON
 E1785
 ELECTRICAL
 STATE OF CALIFORNIA

Mission Oak HS Aquatic Complex
 Tulare Joint Union High School District
 Tulare, CA 93274
 Project

TYPICAL INFORMATION
 POWER SYSTEMS - SINGLE LINE DIAGRAM AND DETAILS
 Drawing

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 Architect

REGISTERED ARCHITECT
 DARDEN ARCHITECTS
 No. C23724
 STATE OF CALIFORNIA

No.	Revision/Submission	Date
1	REVISION_01	05/31/2023

Revision		
Designed By:	SD	Copyright 2022 Darden Architects
Scale:	As indicated	Drawn By: HDE
Project Number:	2180	Checked By: SD
Date:	08/02/2022	Reviewed By: SD

X/E103

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CONSTRUCTION SET

APPROVED
BY THE STATE ARCHITECT
APP: 02-120251, INC.
REVIEWED FOR
68 ID PLS ID ACS ID
DATE: 08/28/2023

PANEL "P2H" SCHEDULE									
277/480V 3Φ 4W 42KAIC					INDOOR / SURFACE				
CKT. NO.	DESCRIPTION	BREAKER AMPS POLES	VA	Φ	VA	BREAKER AMPS POLES	DESCRIPTION	CKT. NO.	
1	EM LIGHTING INVERTER AND EM LIGHTS	15 1	1913	A		15 3	SPARE	2	
3	LIGHTS - INTERIOR	15 1	115	B				4	
5	LIGHTS - EXTERIOR (BLDG. P2 & P3)	15 1	571	C				6	
7	LIGHTS - EXTERIOR (BLDG. P4)	15 1	536	A		20 1	SPARE	8	
9	LIGHTS - POOL POLE (NORTHEAST)	15 1	2670	B		20 1	SPARE	10	
11	LIGHTS - POOL POLE (SOUTHEAST)	15 1	2670	C		20 1	SPARE	12	
13	LIGHTS - POOL POLE (NORTHWEST)	15 1	2670	A			SPACE ONLY	14	
15	LIGHTS - POOL POLE (SOUTHWEST)	15 1	2670	B			SPACE ONLY	16	
17	LIGHTS - SITE AND PARKING LOT	15 1	2706	C			SPACE ONLY	18	
19	SPACE ONLY			A			SPACE ONLY	20	
21	SPACE ONLY			B			SPACE ONLY	22	
23	SPACE ONLY			C			SPACE ONLY	24	
25	SPACE ONLY			A			SPACE ONLY	26	
27	SPACE ONLY			B			SPACE ONLY	28	
29	SPACE ONLY			C			SPACE ONLY	30	
31	SPACE ONLY			A			SPACE ONLY	32	
33	SPACE ONLY			B			SPACE ONLY	34	
35	SPACE ONLY			C			SPACE ONLY	36	
37	TRANSFORMER "T-P2L"	175 3	33485	A	21652	250 3	PANEL "P4H"	38	
39	----	-- --	34511	B	21052	-- --	----	40	
41	----	-- --	29228	C	21052	-- --	----	42	
LOAD SUMMARY:			Φ A 60256 VA		BUSING: 600A				
			Φ B 61018 VA		MAIN: 450A				
			Φ C 56227 VA						
CONNECTED LOAD:			177.5 KVA						
MAX CURRENT:			220 A						

PANEL "P3L" SCHEDULE									
120/208V 3Φ 4W 22KAIC					INDOOR / SURFACE				
CKT. NO.	DESCRIPTION	BREAKER AMPS POLES	VA	Φ	VA	BREAKER AMPS POLES	DESCRIPTION	CKT. NO.	
1	OUTLETS - GIRLS & GIRLS SHOWER	20 1	540	A	564	20 1	LIGHTS - BOYS, BOYS SHOWER, FIRE RISER	2	
3	OUTLETS - EXTERIOR	20 1	360	B	564	20 1	LIGHTS - GIRLES, GIRLS SHOWER, CUST.	4	
5	HAND DRYER - GIRLS SHOWER	20 1	2000	C		20 1	SPARE	6	
7	HAND DRYER - GIRLS	20 1	2000	A		20 1	SPARE	8	
9	HAND DRYER - GIRLS	20 1	2000	B		20 1	SPARE	10	
11	OUTLETS - BOYS & BOYS SHOWER	20 1	540	C		20 1	SPARE	12	
13	OUTLETS - EXTERIOR	20 1	360	A			SPACE ONLY	14	
15	HAND DRYER - BOYS SHOWER	20 1	2000	B			SPACE ONLY	16	
17	HAND DRYER - BOYS	20 1	2000	C			SPACE ONLY	18	
19	HAND DRYER - BOYS	20 1	2000	A			SPACE ONLY	20	
21	SWIMSUIT SPINNER	20 1	500	B			SPACE ONLY	22	
23	SPARE	20 1		C			SPACE ONLY	24	
25	SPARE	20 1		A			SPACE ONLY	26	
27	SPARE	20 1		B			SPACE ONLY	28	
29	SPARE	20 1		C			SPACE ONLY	30	
31	WATER HEATER & CIRC. PUMP	20 1	1217	A			SPACE ONLY	32	
33	WATER HEATER & CIRC. PUMP	20 1	1217	B			SPACE ONLY	34	
35	SPACE ONLY			C			SPACE ONLY	36	
37	SPACE ONLY			A			SPACE ONLY	38	
39	SPACE ONLY			B			SPACE ONLY	40	
41	* FIRE SPRINKLER BELL	20 1	180	C	2400	40 1	EXHAUST FAN EF-1	42	
LOAD SUMMARY:			Φ A 6681 VA		BUSING: 125A				
			Φ B 6641 VA		MAIN: 125A				
			Φ C 7120 VA						
CONNECTED LOAD:			20.4 KVA						
MAX CURRENT:			59 A						

PANEL "P4H" SCHEDULE									
277/480V 3Φ 4W 42KAIC					INDOOR / SURFACE / STAINLESS STEEL, NEMA 4X				
CKT. NO.	DESCRIPTION	BREAKER AMPS POLES	VA	Φ	VA	BREAKER AMPS POLES	DESCRIPTION	CKT. NO.	
1	LIGHTS - INTERIOR	15 1	600	A	18005	100 3	COMPETITION POOL CIRC. PUMP	2	
3	SPARE	20 1		B	18005	-- --	----	4	
5	SPARE	20 1		C	18005	-- --	----	6	
7	SPACE ONLY			A	3047	20 3	LEARNING POOL CIRC. PUMP	8	
9	SPACE ONLY			B	3047	-- --	----	10	
11	SPACE ONLY			C	3047	-- --	----	12	
13	SPACE ONLY			A			SPACE ONLY	14	
15	SPACE ONLY			B			SPACE ONLY	16	
17	SPACE ONLY			C			SPACE ONLY	18	
19	SPACE ONLY			A			SPACE ONLY	20	
21	SPACE ONLY			B			SPACE ONLY	22	
23	SPACE ONLY			C			SPACE ONLY	24	
25	SPACE ONLY			A			SPACE ONLY	26	
27	SPACE ONLY			B			SPACE ONLY	28	
29	SPACE ONLY			C			SPACE ONLY	30	
31	SPACE ONLY			A			SPACE ONLY	32	
33	SPACE ONLY			B			SPACE ONLY	34	
35	SPACE ONLY			C			SPACE ONLY	36	
37	SPACE ONLY			A			SPACE ONLY	38	
39	SPACE ONLY			B			SPACE ONLY	40	
41	SPACE ONLY			C			SPACE ONLY	42	
LOAD SUMMARY:			Φ A 21652 VA		BUSING: 225A				
			Φ B 21052 VA		MAIN: 225A				
			Φ C 21052 VA						
CONNECTED LOAD:			63.8 KVA						
MAX CURRENT:			78 A						

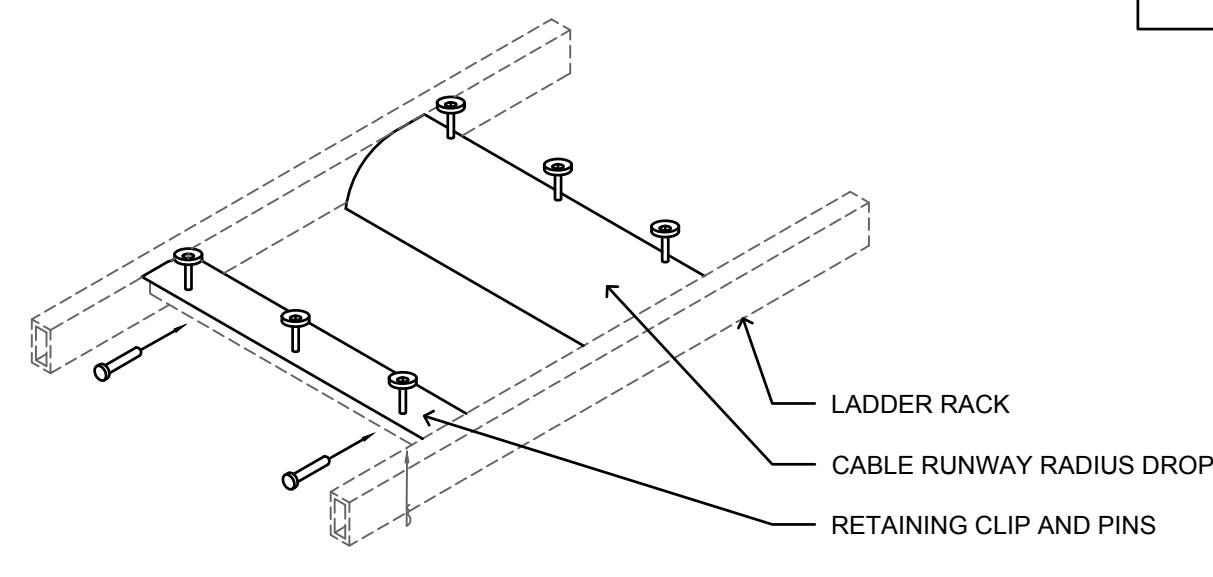
DSA File No.: 54-H11
DSA Application No.: 02-120251
Agency Approval

PANEL "P2L" SCHEDULE									
120/208V 3Φ 4W 22KAIC					INDOOR / SURFACE				
CKT. NO.	DESCRIPTION	BREAKER AMPS POLES	VA	Φ	VA	BREAKER AMPS POLES	DESCRIPTION	CKT. NO.	
1	SPARE	20 1		A	720	20 1	SPARE	2	
3	SPARE	20 1		B	720	20 1	SPARE	4	
5	SPARE	20 1		C	720	20 1	SPARE	6	
7	SPARE	20 1		A	1098	15 2	IDU/ODU-2	8	
9	SPARE	20 1		B	1098	-- --	----	10	
11	OUTLETS - STORAGE	20 1	720	C	798	15 2	IDU/ODU-1	12	
13	SPARE	20 1		A	798	-- --	----	14	
15	SPARE	20 1		B	798	-- --	----	16	
17	SPARE	20 1		C	798	-- --	----	18	
19	SPARE	20 1		A	360	20 1	OUTLETS - EXTERIOR	20	
21	SPARE	20 1		B	360	20 1	OUTLETS - ELECT.	22	
23	SPARE	20 1		C	360	20 1	OUTLETS - ELECT.	24	
25	SPARE	20 1		A	360	20 1	OUTLETS - ELECT.	26	
27	SPARE	20 1		B	360	20 1	OUTLETS - ELECT.	28	
29	SPARE	20 1		C	360	20 1	OUTLETS - ELECT.	30	
31	SPARE	20 1		A	360	20 1	OUTLETS - ELECT.	32	
33	SPARE	20 1		B	720	20 1	OUTLETS - ELECT.	34	
35	SPARE	20 1		C	720	20 1	OUTLETS - ELECT.	36	
37	MUSCO CAB. CONTROL POWER - ELEC YARD	15 1	250	A	360	20 1	IDF-P2	38	
39	POOL AREA AUDIO SYSTEM CAB. - TEAM RM	20 1	500	B	500	20 2	IDF-P2 208V OUTLET	40	
41	SPARE	20 1		C	500	-- --	----	42	
43	SPARE	20 1		A	6681	125 3	PANEL "P3L"	44	
45	SPARE	20 1		B	6641	-- --	----	46	
47	SPARE	20 1		C	7120	-- --	----	48	
49	SPARE	20 1		A	23218	300 3	PANEL "P4L"	50	
51	SPARE	20 1		B	24332	-- --	----	52	
53	* FIRE ALARM PANEL & SPRINKLER BELL	20 1	360	C	18290	-- --	----	54	
LOAD SUMMARY:			Φ A 33485 VA		BUSING: 600A				
			Φ B 34511 VA		MAIN: 600A				
			Φ C 29228 VA						
CONNECTED LOAD:			97.2 KVA						
MAX CURRENT:			288 A						

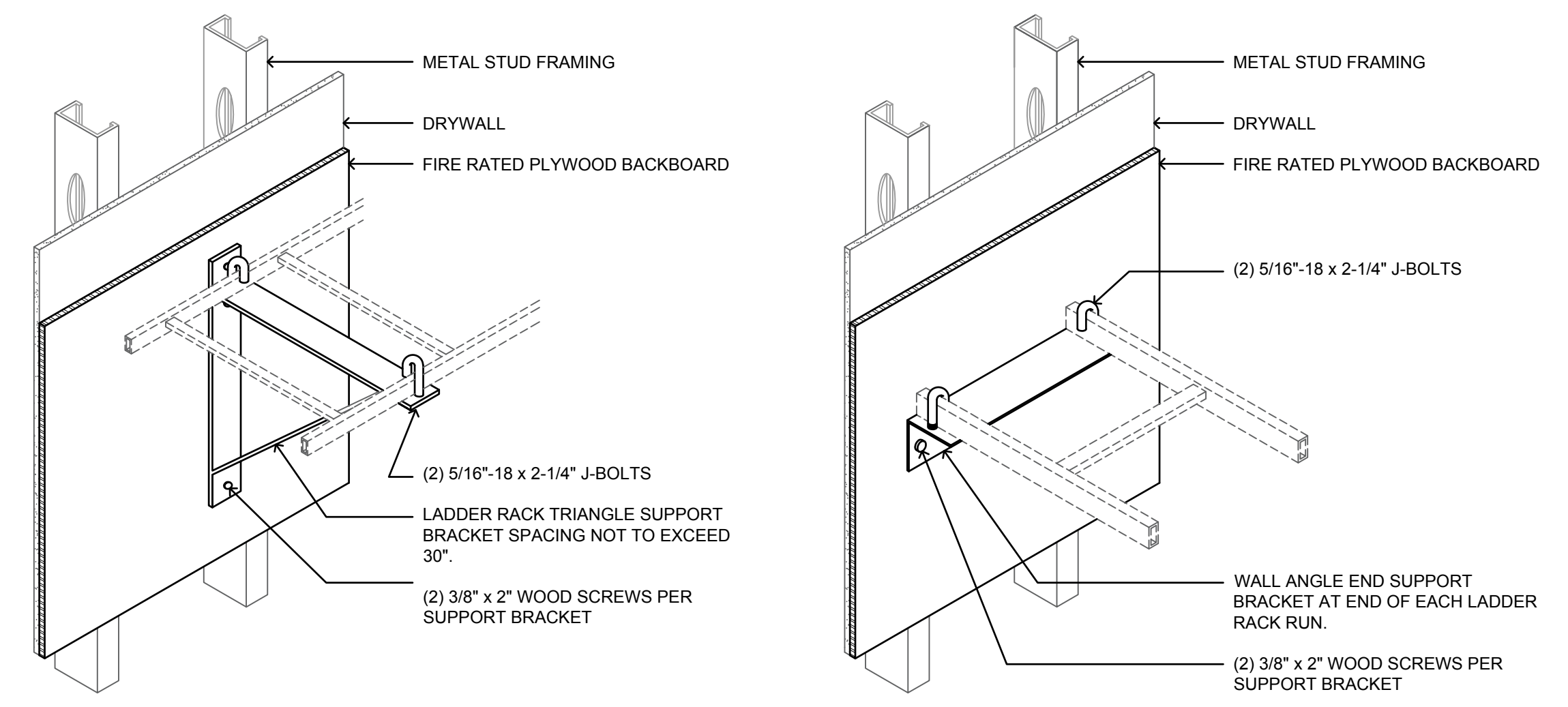
PANEL "P2L" SCHEDULE									
120/208V 3Φ 4W 22KAIC					INDOOR / SURFACE				
CKT. NO.	DESCRIPTION	BREAKER AMPS POLES	VA	Φ	VA	BREAKER AMPS POLES	DESCRIPTION	CKT. NO.	
1	SPARE	20 1		A	20	20 1	SPARE	2	
3	SPARE	20 1		B	480	20 1	WATER HEATER WH-3	4	
5	SPARE	20 1		C	696	20 1	EXHAUST FAN EF-2	6	
7	SPARE	20 1		A	1098	15 2	IDU/ODU-2	8	
9	SPARE	20 1		B	1098	-- --	----	10	
11	OUTLETS - STORAGE	20 1	720	C	798	15 2	IDU/ODU-1	12	
13	OUTLETS - CUST. & STAFF	20 1	540	A	798	-- --	----	14	
15	HAND DRYER - STAFF	20 1	2000	B		20 1	SPARE	16	
17	OUTLETS - SNACK BAR	20 1	540	C		20 1	SPARE	18	
19	OUTLETS - SNACK BAR	20 1	540	A	360	20 1	OUTLETS - EXTERIOR	20	
21	REFRIGERATOR - SNACK BAR	20 1	1000	B	360	20 1	OUTLETS - ELECT.	22	
23	REFRIGERATOR - SNACK BAR	20 1	1000	C	360	20 1	OUTLETS - ELECT.	24	
25	OUTLETS - SNACK BAR COUNTER	20 1	360	A	360	20 1	OUTLETS - ELECT.	26	
27	OUTLETS - SNACK BAR COUNTER	20 1	360	B	360	20 1	OUTLETS - ELECT.	28	
29	OUTLETS - SNACK BAR COUNTER	20 1	360	C	360	20 1	OUTLETS - ELECT.	30	
31	FLY FAN FF-2 (NORTH) - SNACK BAR	20 1	612	A	360	20 1	OUTLETS - ELECT.	32	
33	FLY FAN FF-2 (WEST) - SNACK BAR	20 1	612	B	720	20 1	OUTLETS - ELECT.	34	
35	FLY FAN FF-1 (WEST) - SNACK BAR	20 1	612	C	720	20 1	OUTLETS - ELECT.	36	
37	MUSCO CAB. CONTROL POWER - ELEC YARD	15 1	250	A	360	20 1	IDF-P2	38	
39	POOL AREA AUDIO SYSTEM CAB. - TEAM RM	20 1	500	B	500	20 2	IDF-P2 208V OUTLET	40	
41	SPARE	20 1		C	500	-- --	----	42	
43	SPARE	20 1		A	6681	125 3	PANEL "P3L"	44	
45	SPARE	20 1		B	6641	-- --	----	46	
47	SPARE	20 1		C	7120	-- --	----	48	
49	SPARE	20 1		A	23218	300 3	PANEL "P4L"	50	
51	SPARE	20 1		B	24332	-- --	----	52	
53	* FIRE ALARM PANEL & SPRINKLER BELL	20 1	360	C	18290	-- --	----	54	
LOAD SUMMARY:			Φ A 35537 VA		BUSING: 600A				
			Φ B 38963 VA		MAIN: 600A				
			Φ C 32436 VA						
CONNECTED LOAD:			106.9 KVA						
MAX CURRENT:			325 A						

PANEL "P4L" SCHEDULE									
120/208V 3Φ 4W 22KAIC					INDOOR / SURFACE / STAINLESS STEEL, NEMA 4X				
CKT. NO.	DESCRIPTION	BREAKER AMPS POLES	VA	Φ	VA	BREAKER AMPS POLES	DESCRIPTION	CKT. NO.	
1	OUTLETS - STORAGES & EXTERIOR	20 1	540	A	76.8	20 1	EXHAUST FAN EF-4	2	
3	OUTLETS - STORAGES	20 1	540	B	1920	30 1	EXHAUST FAN EF-5	4	
5	OUTLETS - STORAGES	20 1	540	C	76.8	20 1	EXHAUST FAN EF-3	6	
7	OUTLET - POOL EQUIPMENT	20 1	180	A	4160	40 2	WATER HEATER WH-2	8	
9	OUTLET - POOL EQUIPMENT	20 1	180	B	4160	-- --	----	10	
11	OUTLETS - EXTERIOR	20 1	720	C		20 1	SPARE	12	
13	SPARE	20 1		A	20	20 1	SPARE	14	
15	SPARE	20 1		B	20	20 1	SPARE	16	
17	SPARE	20 1		C	20	20 1	SPARE	18	
19	SPARE	20 1		A			SPACE ONLY	20	
21	SPARE	20 1		B			SPACE ONLY	22	
23	SPARE	20 1							

- | | | |
|--|--|---|
| <p>PLYWOOD INSTALLATION NOTES:</p> <ol style="list-style-type: none"> 1. INSTALL 3/4" FIRE RESISTANT PAINTED PLYWOOD BACKBOARD AT INTERIOR OF ROOM WHERE SHOWN. 2. SECURE PLYWOOD TO METAL WALL STUDS WITH FLUSH #10 x 3" FLAT HEAD WOOD SMS AT 8" CENTERS. | <p>LADDER RACK NOTES:</p> <ol style="list-style-type: none"> 1. THE MAXIMUM CABLE WEIGHT FOR THIS SYSTEM SHALL NOT EXCEED 50 POUNDS PER LINEAR FOOT. 2. THE COMBINED WEIGHT OF THE CABLE AND LADDER RACK SYSTEM SHALL NOT EXCEED 75 POUNDS PER LINEAR FOOT. | <p>GROUNDING NOTES:</p> <ol style="list-style-type: none"> 1. BOND ALL LADDER RACK SECTIONS AND RACKS TOGETHER AND TO TMGB. SEE DETAILS L11/X/E105 & L14/X/E105. 2. REMOVE PAINT FROM COMPONENTS PRIOR TO ATTACHING GROUND LUGS. |
|--|--|---|

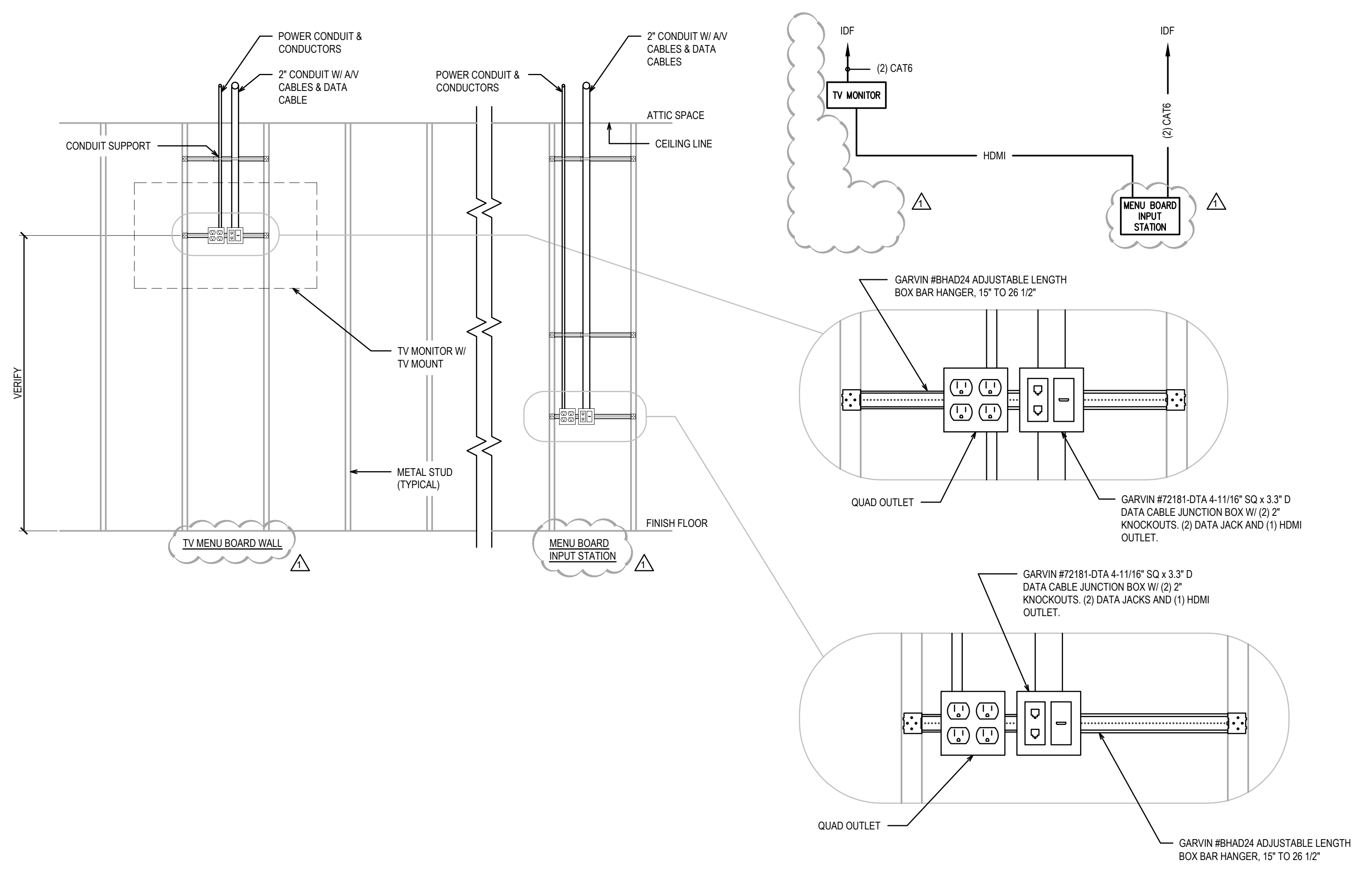


LADDER RACK CABLE TRANSITION



LADDER RACK WALL SUPPORT

J1 Ladder Rack Installation Detail
No Scale



A1 TV Menu Board Detail - ALTERNATE BID
No Scale

DSA File No.: 54-H11
DSA Application No.: 02-120251
Agency Approval

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Mission Oak HS Aquatic Complex
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Tulare, CA 93274
Project

TYPICAL INFORMATION
POWER AND LOW VOLTAGE SYSTEMS - DETAILS
Drawing

darden architects ARCHITECTURE PLANNING INTERIORS
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No.	Revision/Submission	Date
1	REVISION_01	05/31/2023
Revision		
Designed By:	SD	Copyright 2022 Darden Architects
Scale:	As indicated	Drawn By: HDE
Project Number:	2180	Checked By: SD
Date:	08/02/2022	Reviewed By: SD

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FIRE ALARM GENERAL NOTES:

1. FIRE ALARM SYSTEM: ADDRESSABLE, CLASS B, AUTOMATIC.
2. ALL WORK SHALL CONFORM TO THE 2016 EDITION OF NFPA 72, AND THE 2019 EDITION OF CBC, CEC, AND CFC.
3. INSTALLATION OF THE FIRE ALARM SYSTEM (FAS) SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATIONS, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAS BEEN APPROVED BY DSA.
4. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR. (THE LOCAL FIRE AUTHORITY MAY WITNESS THE TEST).
5. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR THE INSTALLATION.
6. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT/ENGINEER OF THE PROJECT.
7. DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND/OR TESTING.
8. ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, UL, OR OTHER LAB TESTING CRITERIA APPROVED TYPE OF MATERIALS SHALL BE IDENTIFIED WITHIN THE SPECIFICATION WITHIN THE FIRE ALARM SECTION.
9. MICROPHONE ASSOCIATED WITH EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS (EVAC) SHALL BE ACCESSIBLE FOR USE, INSTALLED IN COMPLIANCE WITH CBC SECTIONS 11B-305 AND 11B-308.
10. WALL MOUNTED VISUAL NOTIFICATION DEVICES SHALL HAVE THEIR ENTIRE LENS WITHIN AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR.
11. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 100" MAXIMUM FROM FINISHED FLOOR AND NO CLOSER THAN 6" TO A HORIZONTAL STRUCTURE.
12. AUDIBLE DEVICES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 DECEBELS (dBA) ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR 5 dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, IN EVERY SPACE WITHIN A BUILDING THAT MAY BE OCCUPIED AND BE INTELLIGIBLE.
13. AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN, PRIOR TO "EVAC" ANNOUNCEMENT. THE CARBON MONOXIDE SIGNAL SHALL SOUND A FOUR-PULSE TEMPORAL PATTERN PER NFPA 72, 18.4.3.2.
14. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
15. VISUAL DEVICES SHALL NOT EXCEED 2 FLASHES PER SECOND AND SHALL NOT BE SLOWER THAN 1 FLASH PER SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELA. VISUAL DEVICES WITHIN 50' FROM EACH OTHER SHALL BE SYNCHRONIZED.
16. UNDERGROUND AND EXTERIOR CONDUITS SHALL HAVE WATER-TIGHT FITTINGS AND WIRE APPROVED FOR WET LOCATIONS.
17. ALL FIRE ALARM WIRING SHALL BE FLP OR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND SHALL BE THHN OR THWN.
18. PER CEC STANDARDS, ALL WIRING SHALL BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPICE WIRE. ANY CONNECTION SHALL BE BY LUG CONNECTION AT A DEVICE OR AT A FATC TERMINAL BLOCK ONLY. ALL BOXES TO BE SIZED PER CEC.
19. SMOKE DETECTORS SHALL NOT BE CLOSER THAN 12" FROM FIRE SPRINKLERS NOR 36" FROM SUPPLY AIR DIFFUSERS. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION, NEWLY INSTALLED FIRE ALARM DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.
20. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY, OR OPEN RUN ABOVE CEILINGS, UNDER FLOORS, AND IN WALLS IN A NEAT AND PROTECTED MANNER AS INDICATED ON DESIGN DOCUMENTS. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS. OWNER STANDARDS MAY BE MORE STRINGENT.
21. FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS' SPECIFICATIONS. ANY SINGLE DEVICE SHALL NOT EXCEED THE WEIGHT OF 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
22. A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A LOCKING DEVICE WITH RED MARKING PER NFPA 72, SECTION 10.6.5.4 AND 10.6.5.2 TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL". CIRCUIT ID TO BE LABELED AT THE FIRE PANEL/EXTENDERS.
23. THE INSTALLING CONTRACTOR SHALL PROVIDE A RECORD OF COMPLETION IN COMPLIANCE WITH NFPA 72, SECTION 7.5.6.
24. CONTROL PANELS AND REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48".
25. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC 901.6.2.
26. SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTIONS WITH FINAL TEST. FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72. THE SUPERVISING STATIONS SHALL BE LISTED AS EITHER ULXF (CENTRAL STATION) OR ULJIS (REMOTE AND PROPRIETARY BY UNDERWRITERS LABORATORY (UL)) OR SHALL COMPLY WITH THE REQUIREMENTS OF STANDARD FM 3011. A COPY OF ALL DEVICES REPORTED TO THE CENTRAL STATION SHALL BE PROVIDED TO THE OWNERS ELECTRONICS DEPARTMENT.

27. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.
28. ALL WIRING IS SHOWN DIAGRAMMATICALLY. SUBJECT TO DSA APPROVAL, CONTRACTOR MAY VARY SEQUENCE OF CIRCUITRY; HOWEVER, ALL CIRCUITS SHALL BE CONTINUOUS AND SUPERVISED.
29. ALL CONNECTIONS SHALL BE PROPERLY LABELED BY CONDUCTOR AND SHALL HAVE STA-KON LUG CONNECTORS. PANDUIT TAG (TIE WRAP) SEPARATELY.
30. FIRE ALARM TERMINAL CABINETS SHALL HAVE SUFFICIENT SPACE, TERMINAL BOARDS AND SCREW TERMINAL CONNECTORS TO ALLOW CONNECTION OF ALL CONDUCTORS SHOWN. PROVIDE BARRIER TO SEPARATE FIRE ALARM SYSTEM WHEN TERMINAL CABINET IS SHARED WITH NON-FIRE ALARM SYSTEMS. CONTRACTOR SHALL BE REQUIRED TO SUBMIT WITH HIS OTHER SHOP DRAWINGS DETAILED DRAWINGS OF HIS PROPOSED CONNECTIONS AT EACH FIRE ALARM TERMINAL CABINET PRIOR TO COMMENCING ANY WORK.
31. ALL NAC CIRCUIT CONDUCTORS SHALL BE #12 AWG, STRANDED (19 STRANDS OR LESS) COPPER, UNLESS OTHERWISE NOTED.
32. SET END-OF-LINE RESISTORS IN DISTRIBUTION TERMINAL CABINETS.
33. BATTERIES SHALL BE STAMPED WITH DATE OF MANUFACTURE.
34. INSTALLATION OF FAS EQUIPMENT SHALL BE BY AN AUTHORIZED ENGINEERED SYSTEM DISTRIBUTOR FOR THE EQUIPMENT SPECIFIED BY THE MANUFACTURER FOR SALES, SERVICE, INSTALLATION AND MAINTENANCE. PROVIDE CERTIFICATIONS WITH EQUIPMENT SUBMITTALS. SUBMITTALS BY FIRMS NOT FULFILLING THIS REQUIREMENT WILL BE AUTOMATICALLY REJECTED.
35. THE FAS INSTALLER SHALL BE NICET LEVEL 2 CERTIFIED.
36. THE FAS INSTALLER SHALL PROVIDE ALL FACTORY WARRANTIES TO THE OWNER AT THE CLOSE UP OF THE PROJECT.
37. THE FAS INSTALLER SHALL PROVIDE WRITTEN CERTIFICATION USING NFPA 72 INSPECTION AND TESTING FORMS AND SHALL CERTIFY THAT THE INSTALLATION, TESTING, AND OPERATION CONFORM IN ALL RESPECTS TO THE REQUIREMENTS AS SET FORTH IN TITLE 19 OF THE CALIFORNIA CODE OF REGULATIONS AND PART 3, ARTICLE 760 OF TITLE 24 OF THE C.C.R. AND C.B.C. SECTION 907. THE CONTRACTOR SHALL SUBMIT THE COMPLETED FAS CERTIFICATION AND DESCRIPTION FORM TO DIVISION OF STATE ARCHITECT.
38. INCLUDE ALL DEMOLITION OF EXISTING FIRE ALARM SYSTEM WHETHER SPECIFICALLY SHOWN OR NOT. REMOVE ALL CABLING & UNUSED EXPOSED RACEWAY & OUTLETS. BLANK OFF ALL UNUSED WALL & HARD CEILING OUTLETS. REMOVE ALL UNUSED OUTLETS IN TEE-BAR CEILING & REPLACE ACOUSTIC TILES. RETURN ALL DEVICES, APPLIANCES, & CONTROL PANELS TO OWNER IF REQUESTED BY OWNER DURING CONSTRUCTION.
39. WHEN FIRE ALARM WORK WILL DISABLE PORTIONS OF THE EXISTING FAS, PROVIDE ALL REQUIRED OVERTIME AND FIRE WATCH IN SCOPE OF WORK.
40. WHERE FIRE ALARM DEVICES ARE BEING INSTALLED IN OTHERWISE INACCESSIBLE AREAS, PROVIDE AN ALLOWANCE FOR THE INSTALLATION OF ACCESS PANELS AND ALL WORK ASSOCIATED WITH THE INSTALLATION. THE CONTRACTOR SHALL CUT ALL THE OPENINGS. THE SIZE OF THE ACCESS PANEL SHALL BE DETERMINED BY THE MAN ACCESS REQUIREMENTS. PROVIDE PAINT GRADE ACCESS DOORS AND PAINT TO MATCH THE COLOR & SHEEN OF THE EXISTING CEILING.
41. FIRE ALARM SYSTEM INSPECTION, TESTING, AND MAINTENANCE SHALL COMPLY WITH NFPA 72, CHAPTER 14.
42. PROVIDE FIRE ALARM RECORD DOCUMENTS CABINET NFPA 72, 7.7.2.
 - EVERY NEW FIRE ALARM SYSTEM SHALL PROVIDE A DOCUMENTATION CABINET, INSTALLED AT THE SYSTEM CONTROL PANEL OR OTHER APPROVED LOCATION.
 - THE DOCUMENTATION CABINET SHALL BE PROMINENTLY LABELED, "FIRE ALARM SYSTEM RECORD DOCUMENTS".
 - ALL RECORD AND TESTING DOCUMENTATION SHALL BE STORED IN THE CABINET.
 - CONTENTS SHALL BE ACCESSIBLE BY AUTHORIZED PERSONNEL ONLY.
 - WHERE CABINET IS INSTALLED IN A LOCATION OTHER THAN THE SYSTEM CONTROL UNIT, ITS LOCATION SHALL BE IDENTIFIED AT THE SYSTEM CONTROL UNIT.

- PROVIDE SYSTEM DOCUMENTS AS APPLICABLE:
- RECORD DRAWINGS/AS-BUILTS
 - EQUIPMENT OUT SHEETS & CA-SFM LISTINGS
 - ALTERNATIVE MEANS AND METHODS
 - PERFORMANCE BASED DESIGN DOCUMENTATION (NFPA 72, 7.3.7)
 - SYSTEM RECORD OF COMPLETION & ANY SUPPLEMENTAL INSPECTION AND TESTING DOCUMENTATION (NFPA 72, 7.8.2)
 - EMERGENCY RESPONSE PLAN (NFPA 72, 7.3.1)
 - EVALUATION DOCUMENTATION (NFPA 72, 7.3.9)
 - RISK ANALYSIS DOCUMENTATION (NFPA 72, 7.3.8)
 - SOFTWARE & FIRMWARE CONTROL DOCUMENTATION (NFPA 72, 23.2.2)

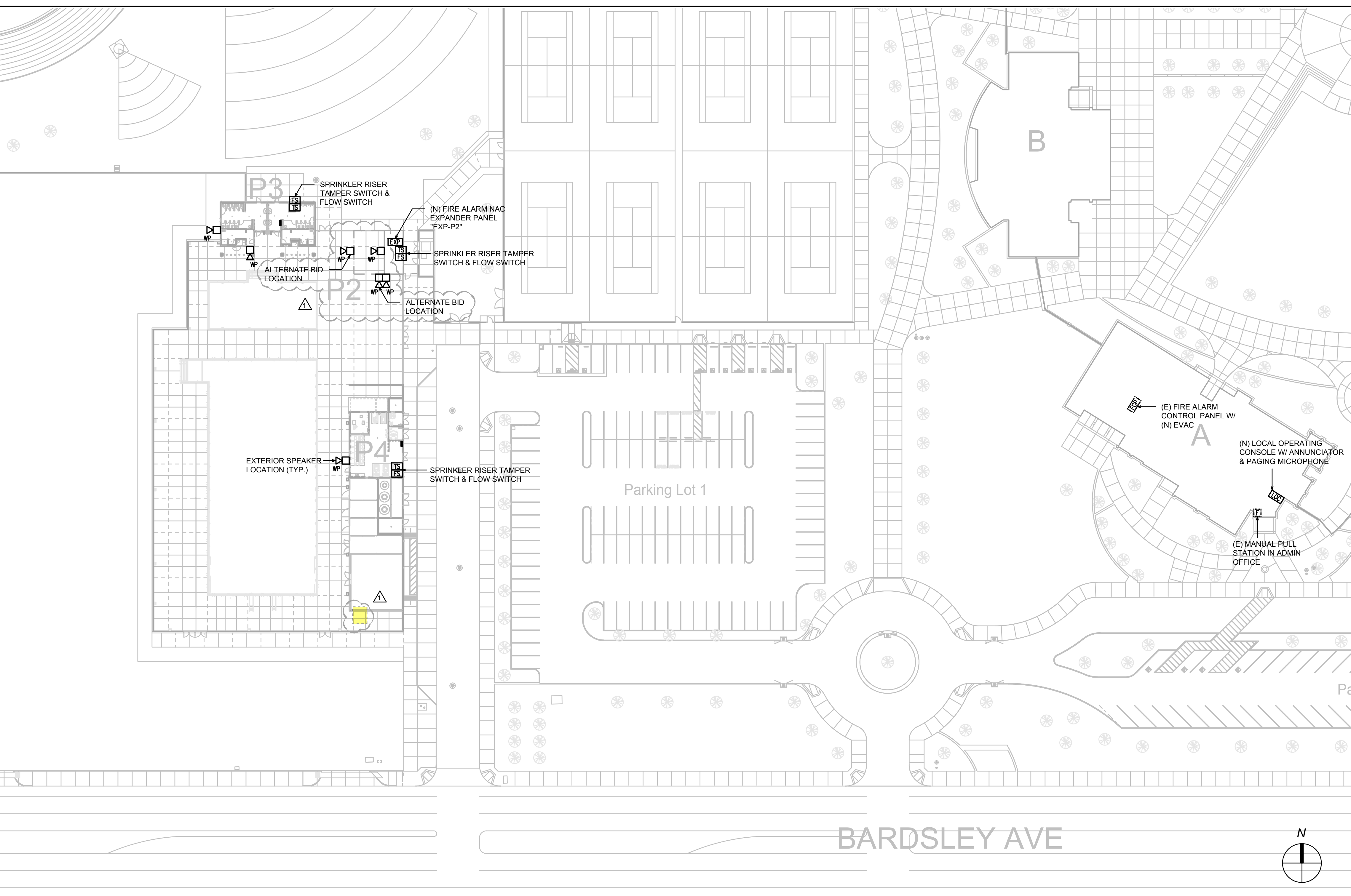
FIRE ALARM SYMBOLS SCHEDULE:

SYMBOL	NAME	DESCRIPTION	CSFM LISTING
	(E) FIRE ALARM CONTROL PANEL W/ (N) EMERGENCY VOICE/ALARM COMMUNICATION	EDWARDSUTC #E3T3 W/ (N) 3-ASU4, 3-2A40	7165-1657-0186
	(N) LOCAL OPERATING CONSOLE W/ ANNUNCIATOR & PAGING MICROPHONE	EDWARDSUTC #3-6AN W/ 3-ANINCPU, 3-LCD, 3-REMICA, SIGA-CT1, 3-12SR	7120-1657-0193 7300-1657-0121
	NAC EXPANDER PANEL	EDWARDSUTC #E3P10A	7300-1657-0229
	SMOKE DETECTOR, PHOTOELECTRONIC DETECTOR BASE	EDWARDSUTC #SIGA-PD EDWARDSUTC #SIGA-SB	7272-1657-0331 7300-1657-0120
	CEILING HEAT DETECTOR, 135°F DETECTOR BASE	EDWARDSUTC #SIGA-HD EDWARDSUTC #SIGA-SB	7270-1657-0333 7300-1657-0120
	MONITOR MODULE	EDWARDSUTC #SIGA-MM1	7300-1657-0121
	RELAY MODULE	EDWARDSUTC #SIGA-CR	7300-1657-0121
	VISIBLE NAC DEVICE, WALL MTD (as INDICATED ON PLANS)	EATON/WHEELLOCK #ELSTR	7135-0785-0504
	SPEAKER/VISIBLE NAC DEVICE, WALL MTD (WATTS & as INDICATED ON PLANS)	EATON/WHEELLOCK #ELSPSTR	7320-0785-0505
	EXTERIOR SPEAKER, W.P., WALL MTD (WATTS INDICATED ON PLANS)	EATON/WHEELLOCK #ET-1010-R	7320-0785-0105
	SPRINKLER POST INDICATOR VALVE	SPECIFIED BY FIRE PROTECTION ENG.	
	SPRINKLER RISER TAMPER SWITCH	SPECIFIED BY FIRE PROTECTION ENG.	
	SPRINKLER RISER FLOW SWITCH	SPECIFIED BY FIRE PROTECTION ENG.	
	SPRINKLER RISER BELL	SPECIFIED BY FIRE PROTECTION ENG.	

FIRE ALARM CABLE SCHEDULE:

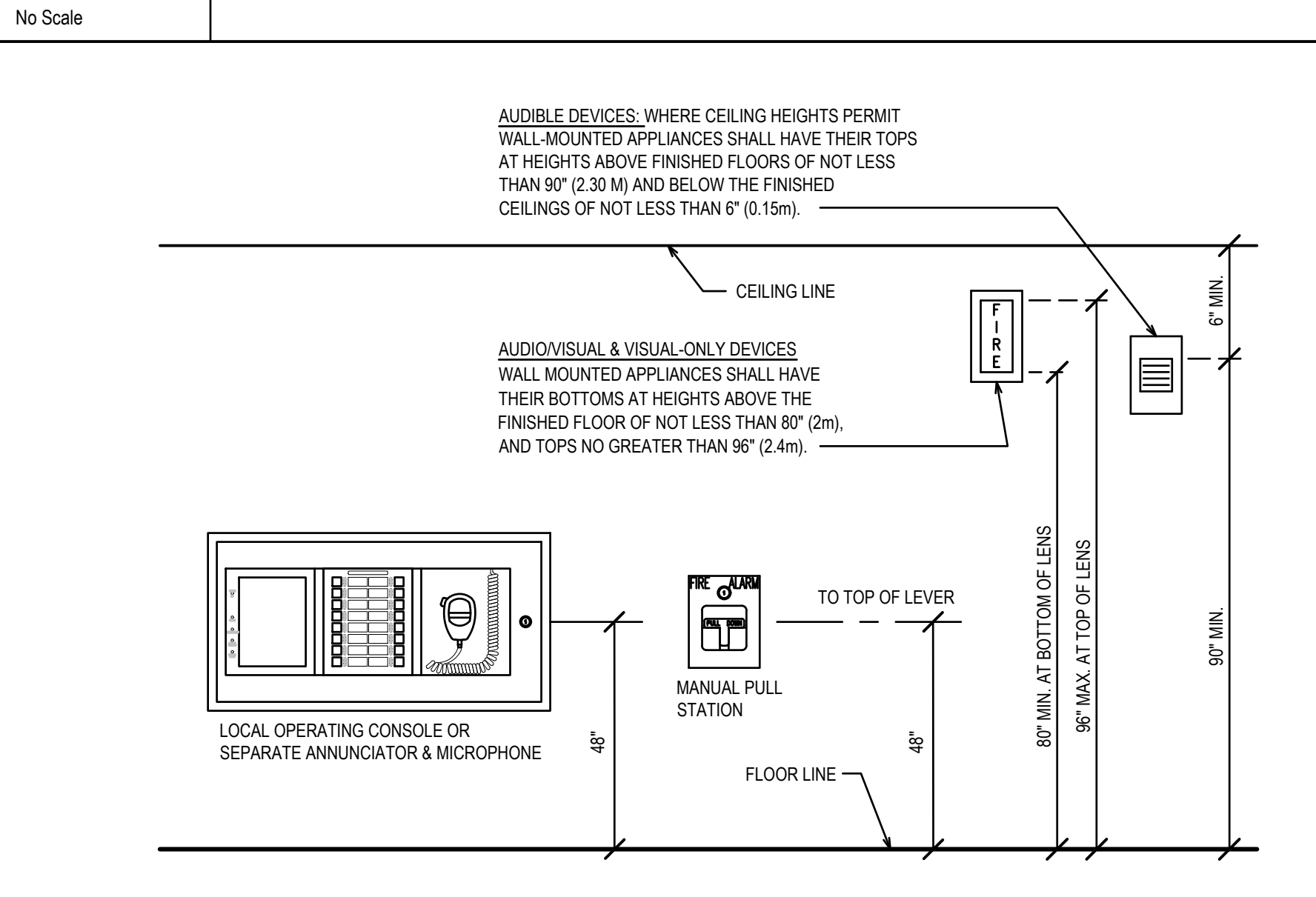
SYMBOL	NAME	DESCRIPTION
A	SIGNALING LINE CIRCUIT (SLC) CABLE WEST PENN #0990	16/2 TWISTED PAIR, STRANDED, LOW CAPACITANCE FA POWER LIMITED, RISER CABLE (FPLR)
AW	SIGNALING LINE CIRCUIT (SLC) CABLE, OSP WEST PENN #AQ225	16/2 TWISTED PAIR, STRANDED, AQUASEAL FA POWER LIMITED CABLE (FPL)
B	NOTIFICATION APPLIANCE CKT (NAC) CABLE WEST PENN #9985	12/2 TWISTED PAIR, STRANDED FA POWER LIMITED, RISER CABLE (FPLR)
C	EM. VOICE/ALARM COMM. (EVIAC) CABLE WEST PENN #H995	14/2 SHIELDED TWISTED PAIR, STRANDED FA POWER LIMITED CABLE (FPL)
CW	EM. VOICE/ALARM COMM. (EVIAC) CABLE, OSP WEST PENN #AQ295	14/2 SHIELDED TWISTED PAIR, STRANDED, AQUASEAL FA POWER LIMITED CABLE (FPL)
D	INITIATING DEVICE CIRCUIT (IDC) CABLE WEST PENN #9945	14/2 TWISTED PAIR, STRANDED FA POWER LIMITED, RISER CABLE (FPLR)
DW	INITIATING DEVICE CKT (IDC) CABLE, OSP WEST PENN #AQ226	14/2 TWISTED PAIR, STRANDED, AQUASEAL FA POWER LIMITED CABLE (FPL)
G	POWER CABLE WEST PENN #9985	12/2 TWISTED PAIR, STRANDED FA POWER LIMITED, RISER CABLE (FPLR)
M	MICROPHONE CABLE, POTTER FA SYSTEMS WEST PENN #3270	22/6 SHIELDED TWISTED PAIRS, STRANDED COMMUNICATIONS RISER CABLE (CMR)
MW	MICROPHONE CABLE, OSP, POTTER FA SYSTEMS WEST PENN #AQ3186	22/6 SHIELDED TWISTED PAIRS, STRANDED, AQUASEAL COMMUNICATIONS MULTI-PURPOSE CABLE (CM)

ACTION	INITIATION CONDITION	FIRE SPRINKLER TAMPER SWITCH POST INDICATOR VALVE	SMOKE, HEAT, OR DUCT DETECTOR, FIRE SPRINKLER FLOW SWITCH	POWER LOSS, SHORT CIRCUIT, GROUND FAULT
ANNUNCIATE TROUBLE				
ANNUNCIATE ALARM				
ANNUNCIATE SUPERVISORY				
INITIATE VISUAL NOTIFICATION APPLIANCES				
INITIATE EVAC SPEAKER APPLIANCES				
TRANSMIT TO CENTRAL STATION				
CLOSE FIRE/SMOKE DAMPER				
SHUT-DOWN FVAC UNITS				
DOOR RELEASE				
ACCESS CONTROL OVERRIDE				



A1 Fire Alarm System Reference Site Plan
1" = 40' - 0"

E13 Fire Alarm Sequence of Operations Matrix



A13 Fire Alarm Wall Mounted Devices Elevation
No Scale

DSA File No.: 54-H11
DSA Application No.: 02-120251

Agency Approval

Hardin-Davidson Engineering
356 Pollasky Ave., Suite 200, Clovis, CA 93616
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www.hardin-davidson.com

Consultant

Mission Oak HS Aquatic Complex
Tulare Joint Union High School District
Tulare, CA 93274

Project

TYPICAL INFORMATION
FIRE ALARM SYSTEM - SYMBOLS, NOTES, AND DETAILS

Drawing

ARCHITECTURE PLANNING INTERIORS
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Architect

No.	Revision/Submission	Date
1	REVISION_01	05/31/2023

Revision

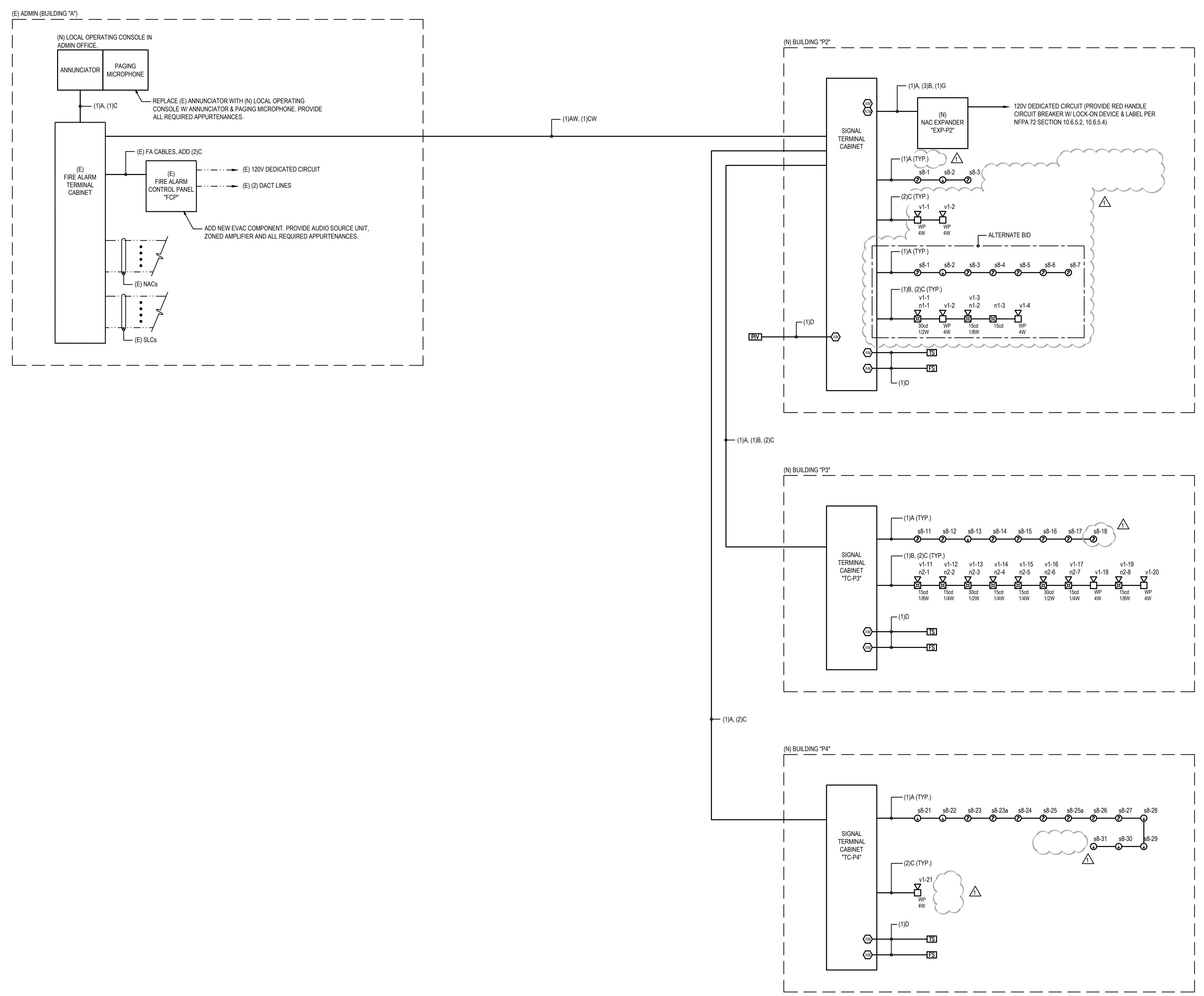
Designed By: SD Copyright 2022 Darden Architects

Scale: As indicated Drawn By: HDE
Project Number: 2180 Checked By: SD
Date: 08/02/2022 Reviewed By: SD

X/E201

Sheet: _____ of: _____

DSA File No.: 54-H11
DSA Application No.: 02-120251
Agency Approval



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Consultant

Mission Oak HS Aquatic Complex
Tulare Joint Union High School District
Tulare, CA 93274

Project

TYPICAL INFORMATION
FIRE ALARM SYSTEM - SINGLE LINE DIAGRAM
Drawing

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Architect

No.	Revision/Submission	Date
1	REVISION_01	05/31/2023
Revision		
Designed By:	SD	Copyright 2022 Darden Architects
Scale:	As indicated	Drawn By: HDE
Project Number:	2180	Checked By: SD
Date:	08/02/2022	Reviewed By: SD

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Sheet: _____ of: _____

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A1 Fire Alarm System Single Line Diagram

DSA File No.:
54-H11

DSA Application No.:
02-120251

Agency Approval

BATTERY CALCULATION

(E) F.A. Control Panel 'FCP'

POWER REQUIREMENTS

	CURRENT [A]	
	SUPERVISORY	ALARM
(E) Panel overhead	0.8313	1.0398
(E) NAC Circuits	-	3.1480
3-ASU/4 (Audio Source Unit)	0.0800	0.0800
3-ZA40B (Audio Amplifier)	0.0620	1.1200
3-ANNCP/3 (Annunciator CPU)	0.1440	0.1440
3-LCD (Display Module)	0.0400	0.0420
3-REMICA (Remote Microphone)	0.0640	0.0640
SGA-CT1 (Single Input Module)	0.0003	0.0004
AUDIO Circuit 1	-	0.3147
TOTALS	1.2216	5.9529

BATTERY CAPACITY

SUPERVISORY POWER (24 HOURS)	= 24 Hr * 1.22155A =	29.317 Ahr
ALARM POWER (15 MINUTES)	= 0.25 Hr * 5.9529100 =	1.488 Ahr
TOTAL POWER REQUIREMENT		30.805 Ahr
MINIMUM BATTERY CAPACITY (includes 25% safety factor)		39 Ahr

VOICE EVACUATION SPEAKER VOLTAGE DROP

Volt Drop Common Parameters

Volts: Volts
Wire Size: AWG
Wire Resistance: 3.26 ohm/Kft

Type	INDOOR				OUTDOOR				CIRCUIT LENGTH			
	Wattage Tap	1/8 W	1/4 W	1/2W	1W	2W	1W	2W	4W	8W	Total Watts	Max Length
vf	2	4	2						5	22.25	4083	2485

BATTERY CALCULATION

NAC Expander 'EXP-P2'

POWER REQUIREMENTS

	CURRENT [A]	
	SUPERVISORY	ALARM
Panel Overhead	0.070	0.180
NAC Circuits	-	0.192
TOTALS	0.070	0.372

BATTERY CAPACITY

SUPERVISORY POWER (24 HOURS)	= 24 Hr * 0.07A =	1.680 Ahr
ALARM POWER (15 MINUTES)	= 0.25 Hr * 0.446A =	0.093 Ahr
TOTAL POWER REQUIREMENT		1.773 Ahr
MINIMUM BATTERY CAPACITY (includes 25% safety factor)		7 Ahr

VOLTAGE DROP CALCULATION

NAC Circuit 'n2'

VD = Voltage Drop [V]
I = Current [A] (0.192A)
K = 12.9 (Copper Constant)
L = Distance to Load [ft.] (385')
CM = Circular Mils (#12 AWG = 6530)
V = Voltage [V] (24VDC)

$$VD = \frac{K * I * 2L}{CM} = \frac{12.9 * 0.192 * 2 * 385}{6530} = 0.292 \text{ V}$$

$$VD\% = \frac{VD}{24} = 1.2\%$$

ALTERNATE BID

BATTERY CALCULATION

(E) F.A. Control Panel 'FCP'

POWER REQUIREMENTS

	CURRENT [A]	
	SUPERVISORY	ALARM
(E) Panel overhead	0.8313	1.0398
(E) NAC Circuits	-	3.1480
3-ASU/4 (Audio Source Unit)	0.0800	0.0800
3-ZA40B (Audio Amplifier)	0.0620	1.1200
3-ANNCP/3 (Annunciator CPU)	0.1440	0.1440
3-LCD (Display Module)	0.0400	0.0420
3-REMICA (Remote Microphone)	0.0640	0.0640
SGA-CT1 (Single Input Module)	0.0003	0.0004
AUDIO Circuit 1	-	3.7182
TOTALS	1.2216	9.3564

BATTERY CAPACITY

SUPERVISORY POWER (24 HOURS)	= 24 Hr * 1.22155A =	29.317 Ahr
ALARM POWER (15 MINUTES)	= 0.25 Hr * 9.3564A =	2.339 Ahr
TOTAL POWER REQUIREMENT		31.656 Ahr
MINIMUM BATTERY CAPACITY (includes 25% safety factor)		40 Ahr

VOICE EVACUATION SPEAKER VOLTAGE DROP

Volt Drop Common Parameters

Volts: Volts
Wire Size: AWG
Wire Resistance: 3.26 ohm/Kft

Type	INDOOR				OUTDOOR				CIRCUIT LENGTH			
	Wattage Tap	1/8 W	1/4 W	1/2W	1W	2W	1W	2W	4W	8W	Total Watts	Max Length
vf	3	4	3						5	22.875	3971	2485

BATTERY CALCULATION

NAC Expander 'EXP-P2'

POWER REQUIREMENTS

	CURRENT [A]	
	SUPERVISORY	ALARM
Panel Overhead	0.070	0.180
NAC Circuits	-	0.266
TOTALS	0.070	0.446

BATTERY CAPACITY

SUPERVISORY POWER (24 HOURS)	= 24 Hr * 0.07A =	1.680 Ahr
ALARM POWER (15 MINUTES)	= 0.25 Hr * 0.446A =	0.112 Ahr
TOTAL POWER REQUIREMENT		1.792 Ahr
MINIMUM BATTERY CAPACITY (includes 25% safety factor)		7 Ahr

VOLTAGE DROP CALCULATION

NAC Circuit 'n1'

VD = Voltage Drop [V]
I = Current [A] (0.074A)
K = 12.9 (Copper Constant)
L = Distance to Load [ft.] (115')
CM = Circular Mils (#12 AWG = 6530)
V = Voltage [V] (24VDC)

$$VD = \frac{K * I * 2L}{CM} = \frac{12.9 * 0.074 * 2 * 115}{6530} = 0.034 \text{ V}$$

$$VD\% = \frac{VD}{24} = 0.1\%$$

VOLTAGE DROP CALCULATION

NAC Circuit 'n2'

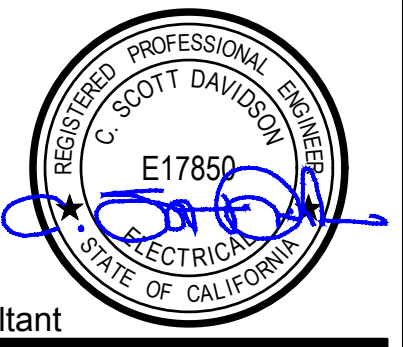
VD = Voltage Drop [V]
I = Current [A] (0.192A)
K = 12.9 (Copper Constant)
L = Distance to Load [ft.] (385')
CM = Circular Mils (#12 AWG = 6530)
V = Voltage [V] (24VDC)

$$VD = \frac{K * I * 2L}{CM} = \frac{12.9 * 0.192 * 2 * 385}{6530} = 0.292 \text{ V}$$

$$VD\% = \frac{VD}{24} = 1.2\%$$



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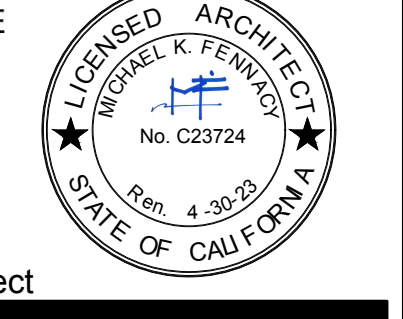


Mission Oak HS Aquatic Complex
Tulare Joint Union High School District
Tulare, CA 93274

TYPICAL INFORMATION
FIRE ALARM SYSTEM - CALCULATIONS



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No.	Revision/Submission	Date
1	REVISION_01	05/31/2023

Revision

Designed By: SD Copyright 2022 Darden Architects

Scale: As indicated Drawn By: HDE
Project Number: 2180 Checked By: SD
Date: 08/02/2022 Reviewed By: SD

X/E203

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BUILDING P2 Electrical Power Distribution Certificate of Compliance. Includes project information, general information, project scope, and compliance results.

BUILDING P2 Electrical Power Distribution Certificate of Compliance. Includes project information, general information, project scope, and compliance results.

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Mission Oak HS Aquatic Complex Tulare Joint Union High School District Tulare, CA 93274 Project. TYPICAL INFORMATION TITLE 24 COMPLIANCE FORMS - ELECTRICAL POWER DISTRIBUTION Drawing.

Darden Architects logo and contact information: 6790 N. West Ave., Fresno, CA 93711. Phone: 559.448.8051. Architect. Includes revision table and drawing title X/E301.

BUILDING P4

STATE OF CALIFORNIA
CALIFORNIA ENERGY COMMISSION
NIRCC-ELC-4
CERTIFICATE OF COMPLIANCE
Project Name: Mission Oak HS Aquatic Complex
Project Address: Mission Oak HS Aquatic Complex
Report Page: (Page 1 of 5)
Date Prepared: 7/20/2023

A. GENERAL INFORMATION

01 Project Location (City): Tulare
02 Occupancy Types Within Project:
 Office Retail Warehouse Home/Metal School Support Areas
 Parking Garage High-Rise Residential Reconfigurable Healthcare Facilities Other (write in): See Table 1

B. PROJECT SCOPE

This table includes electrical systems that are within the scope of the permit application.

01	02	03	04	05
Electrical Service Designation/Description	Scope of Work ¹	Rating (kVA)	Utility Provided Metering System Exception to §130.5(a) ²	System subject to CA Elec Code Article 517 Exception to §130.5(a)(a) ³
PZH	New electrical service equipment and meter	210	<input type="checkbox"/>	<input type="checkbox"/>
05	Demand Response Controls	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections §130.2, §130.3, and §130.3.2, and compliance documents NRCC-MCH, NRCC-CT and NRCC-LD will indicate when demand response controls are required.		

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

01	02	03	04	05
Service Electrical Metering (§130.5(a)) (See Table F)	Separation for Monitoring (§130.5(b)) (See Table G)	Voltage Drop (§130.5(c)) (See Table H)	Controlled Receptacles (See Table I)	
Yes AND	Yes AND	Yes AND	Yes AND	COMPLIES

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401
Registration Provider: Energysoft
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STATE OF CALIFORNIA
CALIFORNIA ENERGY COMMISSION
NIRCC-ELC-4
CERTIFICATE OF COMPLIANCE
Project Name: Mission Oak HS Aquatic Complex
Project Address: Mission Oak HS Aquatic Complex
Report Page: (Page 2 of 5)
Date Prepared: 7/20/2023

D. EXCEPTIONAL CONDITIONS

This table includes new or replacement electrical service systems OR equipment to demonstrate compliance with §130.5(c).
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

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

F. SERVICE ELECTRICAL METERING

This table includes new or replacement electrical service systems OR equipment to demonstrate compliance with §130.5(c).

01	02	03	04	05
Electrical Service Designation/Description	Rating (kVA)	Instantaneous Demand (kW)	Historical Peak Demand (kW)	Stacking kWh for use defined period
PZH	210	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401
Registration Provider: Energysoft
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CALIFORNIA ENERGY COMMISSION
NIRCC-ELC-4
CERTIFICATE OF COMPLIANCE
Project Name: Mission Oak HS Aquatic Complex
Project Address: Mission Oak HS Aquatic Complex
Report Page: (Page 3 of 5)
Date Prepared: 7/20/2023

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(d). Any load types that are not included in the service do not need to be shown.

01	02	03	04	05
Lighting including exit, egress and exterior HVAC systems and components	All lighting in aggregate	Method 1	X/E104	<input type="checkbox"/>
PZH	All lighting in aggregate <td>Method 1 <td>X/E104</td> <td><input type="checkbox"/></td> </td>	Method 1 <td>X/E104</td> <td><input type="checkbox"/></td>	X/E104	<input type="checkbox"/>

H. VOLTAGE DROP

This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with §130.5(f). For alterations, only the altered circuits must demonstrate compliance per §141.03(a)(2)(ii).

01	02	03	04	05
Electrical Service Designation/Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method	Location of Voltage Drop Calculations ¹	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector
PZH	<input checked="" type="checkbox"/> Voltage drop less than 5% <input type="checkbox"/> Permitted by CA Elec Code (Exception to §130.5(f))	Attached ¹		<input type="checkbox"/>

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401
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CALIFORNIA ENERGY COMMISSION
NIRCC-ELC-4
CERTIFICATE OF COMPLIANCE
Project Name: Mission Oak HS Aquatic Complex
Project Address: Mission Oak HS Aquatic Complex
Report Page: (Page 4 of 5)
Date Prepared: 7/20/2023

I. VOLTAGE DROP

FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsibility".

J. CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(d). Both controlled and uncontrolled receptacles must be provided in office areas, lobbies, conference rooms, kitchen areas in office spaces, copy rooms and hotel/motel guest rooms.

01	02	03	04	05
Room name or Description	Location/Type of Controlled Receptacles	Shut-Off Controls	Permanent Durable Marking Will be Used	Location of Requirements in Construction Documents
				Pass Fail

K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks: These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCC/

Yes	No	Form/Title	Field Inspector
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-ELC-01-E - Must be submitted for all buildings	<input type="checkbox"/>

L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no Certificates of Acceptance applicable to electrical power distribution requirements.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401
Registration Provider: Energysoft
Report Generated: 2022-07-20 17:41:32

DSA File No.: 54-H11

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120251 INC.
REVIEWED FOR
DATE: 01/31/2023

DSA Application No.: 02-120251

Agency Approval

STATE OF CALIFORNIA
CALIFORNIA ENERGY COMMISSION
NIRCC-ELC-4
CERTIFICATE OF COMPLIANCE
Project Name: Mission Oak HS Aquatic Complex
Project Address: Mission Oak HS Aquatic Complex
Report Page: (Page 5 of 5)
Date Prepared: 7/20/2023

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: C. Scott Davidson
Signature Date: 2022-07-20
Address: 356 Pollasky Ave., Suite 200
Clovis, CA 93612
Phone: 559-323-4995

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I, the undersigned, certify that I am the owner of the building and I am responsible for the building design or system design identified on this Certificate of Compliance (responsible designer).

Responsible Designer Name: C. Scott Davidson
Signature Date: 2022-07-20
Address: 356 Pollasky Ave., Suite 200
Clovis, CA 93612
Phone: 559-323-4995

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401
Registration Provider: Energysoft
Report Generated: 2022-07-20 17:41:32

STATE OF CALIFORNIA
CALIFORNIA ENERGY COMMISSION
NIRCC-ELC-4
CERTIFICATE OF COMPLIANCE
Project Name: Mission Oak HS Aquatic Complex
Project Address: Mission Oak HS Aquatic Complex
Report Page: (Page 5 of 5)
Date Prepared: 7/20/2023

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: C. Scott Davidson
Signature Date: 2022-07-20
Address: 356 Pollasky Ave., Suite 200
Clovis, CA 93612
Phone: 559-323-4995

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I, the undersigned, certify that I am the owner of the building and I am responsible for the building design or system design identified on this Certificate of Compliance (responsible designer).

Responsible Designer Name: C. Scott Davidson
Signature Date: 2022-07-20
Address: 356 Pollasky Ave., Suite 200
Clovis, CA 93612
Phone: 559-323-4995

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401
Registration Provider: Energysoft
Report Generated: 2022-07-20 17:41:32

STATE OF CALIFORNIA
CALIFORNIA ENERGY COMMISSION
NIRCC-ELC-4
CERTIFICATE OF COMPLIANCE
Project Name: Mission Oak HS Aquatic Complex
Project Address: Mission Oak HS Aquatic Complex
Report Page: (Page 5 of 5)
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STATE OF CALIFORNIA
CALIFORNIA ENERGY COMMISSION
NIRCC-ELC-4
CERTIFICATE OF COMPLIANCE
Project Name: Mission Oak HS Aquatic Complex
Project Address: Mission Oak HS Aquatic Complex
Report Page: (Page 5 of 5)
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Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401
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Report Generated: 2022-07-20 17:41:32

STATE OF CALIFORNIA
CALIFORNIA ENERGY COMMISSION
NIRCC-ELC-4
CERTIFICATE OF COMPLIANCE
Project Name: Mission Oak HS Aquatic Complex
Project Address: Mission Oak HS Aquatic Complex
Report Page: (Page 5 of 5)
Date Prepared: 7/20/2023

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Address: 356 Pollasky Ave., Suite 200
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Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401
Registration Provider: Energysoft
Report Generated: 2022-07-20 17:41:32

Hardin-Davidson Engineering
356 Pollasky Ave., Suite 200, Clovis, CA 93612
559.323.4995 tel • 559.323.4928 fax
www.hardin-davidson.com

Mission Oak HS Aquatic Complex
Tulare Joint Union High School District
Tulare, CA 93274

TYPICAL INFORMATION
TITLE 24 COMPLIANCE FORMS -
ELECTRICAL POWER DISTRIBUTION Drawing

ARCHITECTURE PLANNING INTERIORS
www.dardenarchitects.com
6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051

No.	Revision/Submission	Date

Revision

Designed By: SD Copyright 2022 Darden Architects

Scale: As indicated Drawn By: HDE
Project Number: 2180 Checked By: SD
Date: 08/02/2022 Reviewed By: SD Sheet: _____ of: _____

X/E302

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BUILDING P2

Indoor Lighting NRC-114 CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE Mission Oak HS Aquatic Complex

Indoor Lighting NRC-114 CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE Mission Oak HS Aquatic Complex

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Indoor Lighting NRC-114 CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE Mission Oak HS Aquatic Complex

Agency Approval DSA File No.: 02-120251

Indoor Lighting NRC-114 CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE Mission Oak HS Aquatic Complex

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Agency Approval DSA File No.: 02-120251

BUILDING P3

Indoor Lighting NRC-114 CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE Mission Oak HS Aquatic Complex

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Agency Approval DSA File No.: 02-120251

Indoor Lighting NRC-114 CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE Mission Oak HS Aquatic Complex

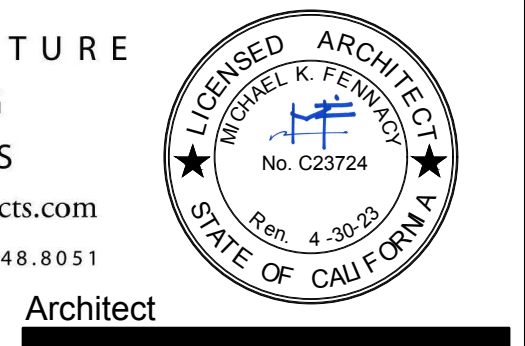
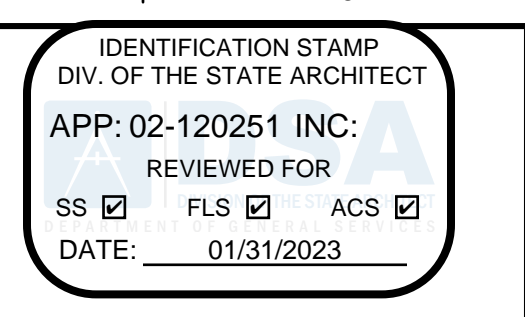
Indoor Lighting NRC-114 CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE Mission Oak HS Aquatic Complex

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Indoor Lighting NRC-114 CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE Mission Oak HS Aquatic Complex

Agency Approval DSA File No.: 02-120251

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Hardin-Davidson Engineering 356 Pollack Ave., Suite 200, Clovis, CA 93612

Mission Oak HS Aquatic Complex Tulare Joint Union High School District

TYPICAL INFORMATION TITLE 24 COMPLIANCE FORMS - INDOOR LIGHTING

Darden Architects ARCHITECTURE PLANNING INTERIORS

Revision table with columns for No., Revision/Submission, Date, and Revision.

Scale: As indicated Drawn By: HDE Project Number: 2180 Checked By: SD Date: 08/02/2022

Sheet: X/E303 of: _____

BUILDING P4

STATE OF CALIFORNIA
INDOOR LIGHTING

CERTIFICATE OF COMPLIANCE

Project Name: Mission Oak HS Aquatic Complex
Report Page: (Page 1 of 7)
Date Prepared: 7/20/2023

A. GENERAL INFORMATION

01 Project Location (City): Tulare
02 Climate Zone: 13
03 Occupancy Types Within Project (select all that apply): Warehouse, Retail, High-Rise Residential, Warehouse, Hotel/Motel, School, Support Areas, Parking Garage, Recreable, Healthcare

B. PROJECT SCOPE

04 Total Conditioned Floor Area (ft²): 1,643
05 Total Unconditioned Floor Area (ft²): 0

06 Calculation Method: Area (ft²)
07 Area Category Method: 1643

08 Calculation Method: Area (ft²)
09 Area Category Method: 0

Total Area of Work (ft²): 1643

Registration Number: CA Building Energy Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003
Registration Provider: Energysoft
Report Generated: 2022-07-20 17:41:32

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES WITH EXCEPTIONAL CONDITIONS" refer to Table D for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(d)(1)	Allowed Lighting Power per §140.6(b) (Watts)	Adjusted Lighting Power per §140.6(a) (Watts)	Compliance Results
01	02	03	04
05	06	07	08
09	OS must be = OS 1648.6		
Conditioned	657.2	0	657.2
Unconditioned	0	0	0
Controls Compliance (See Table Q for Details)			COMPLIES

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all permanent designed lighting and all portable lighting in offices.

Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixtures	Small Aperture B Color Change	Watts per luminaire	How is Wattage determined	Total Number of Luminaires	Excluded per §140.6(a)(3)	Design Watts	Field Inspector
C	50w LED Light	No	No	50	CEC Default	10	No	500	Pass

Registration Number: CA Building Energy Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003
Registration Provider: Energysoft
Report Generated: 2022-07-20 17:41:32

F. INDOOR LIGHTING FIXTURE SCHEDULE

CS	Slow LED Light	No	No	50	CEC Default	2	No	100		
Total Designed Watts: CONDITIONED SPACES: 500										

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces. When a control having a * is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.

Building Level Controls	01	02	03
Mandatory Demand Response §110.2(c)		Shut-off controls §130.1(c)	Field Inspector
Not Required <= 10,000 SF		See Area/Space Level Controls	Pass

Registration Number: CA Building Energy Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003
Registration Provider: Energysoft
Report Generated: 2022-07-20 17:41:32

I. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls	05	06	07	08	09	10	11	12
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Daylighting §140.6(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)(1)	Field Inspector
Pool Equipment room	All Other Space Types	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	Pass
Acid & Chlorine rooms	All Other Space Types	Manual ON/OFF	Exempt*	Exempt*	N/A	N/A	No	Pass
Storage rooms	All Other Space Types	Manual ON/OFF	Exempt*	Exempt*	N/A	N/A	No	Pass

LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

This table includes lighting power allowances for conditioned and unconditioned spaces. When a control having a * is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.

Conditioned Spaces	01	02	03	04	05	06
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	Area Category / PAF
Pool Equipment Rooms	All Other Space Types	0.4	1,643	657.2	No	No

Registration Number: CA Building Energy Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003
Registration Provider: Energysoft
Report Generated: 2022-07-20 17:41:32

J. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

TOTALS	1,643	657.2	See Tables J, or F for detail
--------	-------	-------	-------------------------------

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

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

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

Registration Number: CA Building Energy Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003
Registration Provider: Energysoft
Report Generated: 2022-07-20 17:41:32

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection has been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/nonresidential_documents/NRC/

Yes	No	Form/Title	Field Inspector
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRC-LTI-01-E - Must be submitted for all buildings	Pass
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRC-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	Pass
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRC-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room or a theater to be recognized for compliance.	Pass
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRC-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	Pass
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRC-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	Pass

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection has been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/ettca/providers.html>

Yes	No	Form/Title	Field Inspector
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRC-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	Pass
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRC-LTI-03-A - Must be submitted for automatic daylight controls.	Pass
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRC-LTI-04-A - Must be submitted for demand responsive lighting controls.	Pass
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRC-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF)	Pass

Registration Number: CA Building Energy Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003
Registration Provider: Energysoft
Report Generated: 2022-07-20 17:41:32

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: C. Scott Davidson
Signature Date: 2022-07-20
Company: Hardin-Davidson Engineering
Address: 356 Pollasky Ave., Suite 200
City/State/Zip: Clovis, CA 93612
Phone: 559-323-4995

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I verify the following under penalty of perjury, under the laws of the State of California:

- The information provided on this Certificate of Compliance is true and correct.
- I am eligible under Division 9 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
- The energy features and performance specifications, materials, components, and manufactured items for the building design or system design identified on this Certificate of Compliance conform to the requirements of the 2019 Title 24, Part 6 of the California Code of Regulations.
- The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with the building permit application.
- I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) used for the building, and made available to the enforcement agency for all applicable inspections. Furthermore that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner or occupant.

Responsible Designer Name: C. Scott Davidson
Signature Date: 2022-07-20
Company: Hardin-Davidson Engineering
Address: 356 Pollasky Ave., Suite 200
City/State/Zip: Clovis, CA 93612
Phone: 559-323-4995

Registration Number: CA Building Energy Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003
Registration Provider: Energysoft
Report Generated: 2022-07-20 17:41:32

DSA File No.: 54-H11

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120251 INC.
REVIEWED FOR:
SS FLS ACS
DATE: 01/31/2023

Agency Approval

DSA Application No.: 02-120251

MISSION OAK HS AQUATIC COMPLEX

Tulare Joint Union High School District
Tulare, CA 93274

TYPICAL INFORMATION

TITLE 24 COMPLIANCE FORMS - INDOOR LIGHTING

Architect: Darden Architects

Scale: As indicated
Project Number: 2180
Date: 08/02/2022

Drawn By: HDE
Checked By: SD
Reviewed By: SD

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Sheet: X/E304 of

Hardin-Davidson Engineering
356 Pollasky Ave., Suite 200, Clovis, CA 93612
559.323.4995 tel • 559.323.4928 fax
www.hardin-davidson.com

Darden Architects
ARCHITECTURE PLANNING INTERIORS
www.dardenarchitects.com
6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051

Professional Engineer Seal: C. Scott Davidson, E17850, State of California

Professional Architect Seal: Darden Architects, No. C23724, State of California

Revision Table:

No.	Revision/Submission	Date

1/20/2023 4:07:15 PM Z:\Clients\Darden Architects\22068 - Tulare USD Mission Oak HS Aquatic Complex\CAD Files\22068 - Elec_baccheck.dwg

BUILDING P2

Outdoor Lighting NRC-104 CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE Mission Oak HS Aquatic Complex Report Page: (Page 1 of 7) Date Prepared: 7/20/2022

C. COMPLIANCE RESULTS Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance are an applicable Table referenced below.

F. OUTDOOR LIGHTING FIXTURE SCHEDULE For new or altered lighting systems demonstrating compliance with §160.7, all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the table below.

H. OUTDOOR LIGHTING CONTROLS This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (if unaltered) and luminaires which are removed and reinstated (with only do not need to be included in the table even if they are within the spaces covered by the permit application.

LIGHTING POWER ALLOWANCE (per §160.7) This table includes areas using allowance calculations per §160.7, General Hardship Allowance per §160.7.2, while "Use it or lose it" Allowance per §160.7.2.3.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only) This section does not apply to this project.

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete.

RESPONSIBLE PERSON'S DECLARATION STATEMENT I verify the following under penalty of perjury, under the laws of the State of California:

BUILDING P3

Outdoor Lighting NRC-104 CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE Mission Oak HS Aquatic Complex Report Page: (Page 1 of 7) Date Prepared: 7/20/2022

C. COMPLIANCE RESULTS Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance are an applicable Table referenced below.

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N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only) This section does not apply to this project.

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete.

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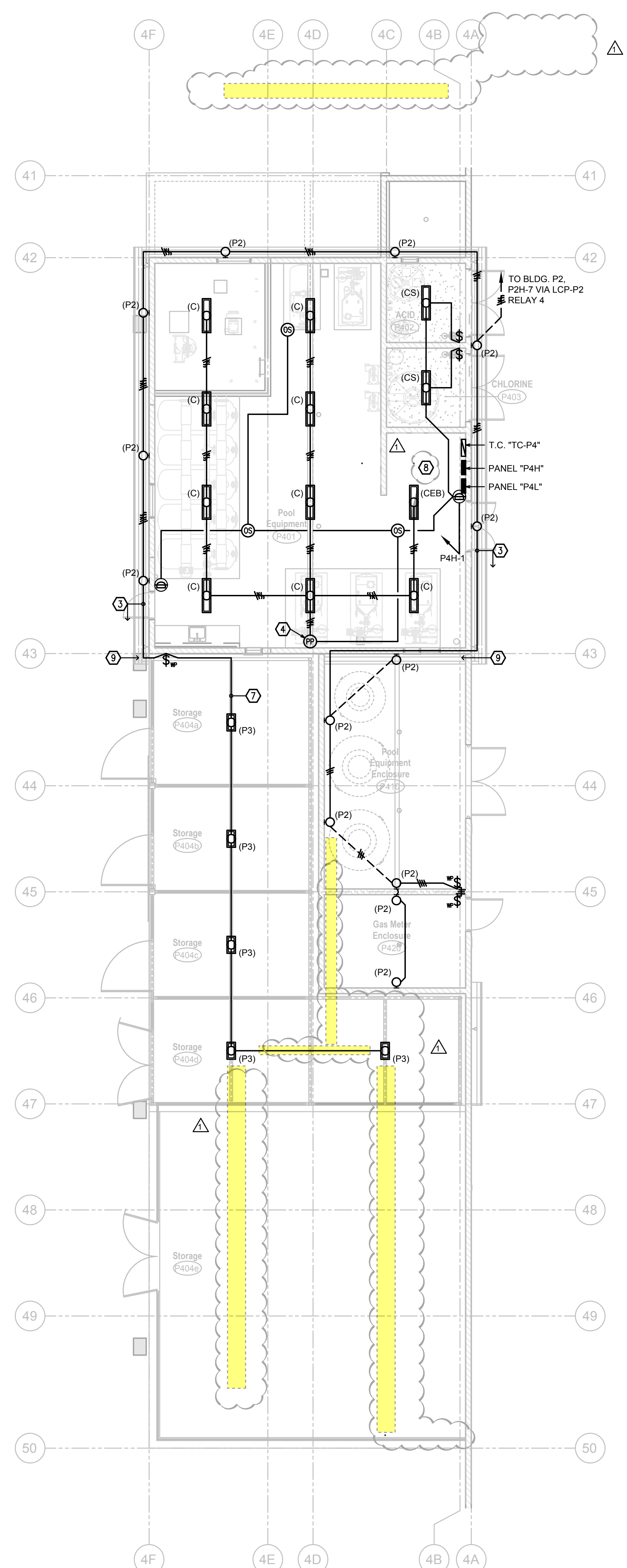
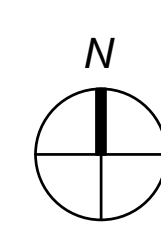
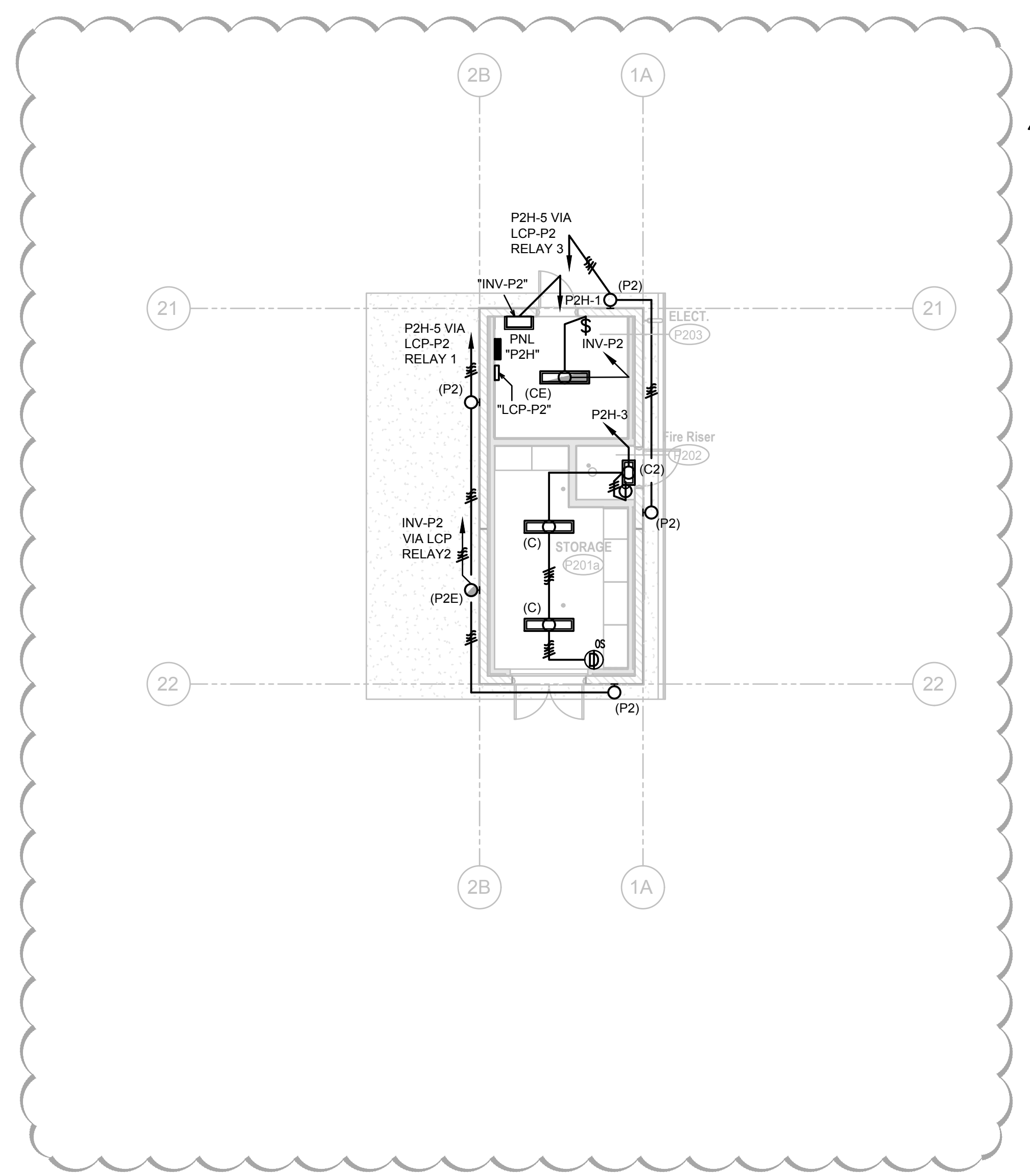
DSA File No.: 54-H11 IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 02-120251 INC. REVIEWED FOR DATE: 01/31/2023

Hardin-Davidson Engineering 356 Pollack Ave., Suite 200, Clovis, CA 93612 559.323.4995 tel • 559.323.4928 fax www.hardin-davidson.com

Mission Oak HS Aquatic Complex Tulare Joint Union High School District TULARE, CA 93274

TYPICAL INFORMATION TITLE 24 COMPLIANCE FORMS - OUTDOOR LIGHTING Drawing No. Revision/Submission Date

1/20/2023 4:07:20 PM Z:\Clients\Darden Architects\2068 - Tulare USD Mission Oak HS Aquatic Complex\CAD Files\2068 - Elec - backcheck.dwg



DSA File No.: 54-H11

DSA Application No.: 02-120251

Agency Approval

KEYNOTES

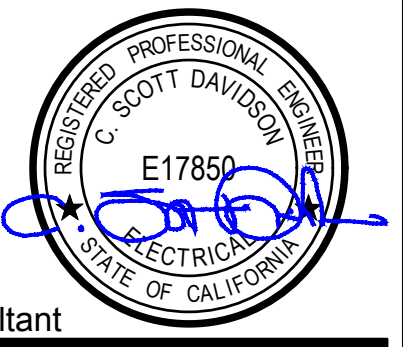
1. WALL MOUNTED HINGED CABINET MOUNTED HIGH ON WALL. PROVIDE (1) DIMMING POWER PACK AND (1) EM DIMMING POWER PACK. PROVIDE BARRIER FOR 277V EM CIRCUIT.
2. WALL MOUNTED HINGED CABINET MOUNTED HIGH ON WALL. PROVIDE (2) DIMMING POWER PACKS AND (1) EM DIMMING POWER PACK. PROVIDE BARRIER FOR 277V EM CIRCUIT.
3. CONTROLLED SWITCH LEG WITHOUT DIMMING CONDUCTORS FROM THIS POINT ON. LIGHTS IN STORAGE AND EQUIPMENT AREAS ONLY AVAILABLE WHEN THE EXTERIOR LIGHTING RELAY IS ON.
4. MOUNT POWER PACK IN PVC ENCLOSURE AT 48" AFF.
5. **NOT USED.**
6. NOT USED.
7. RUN SURFACE TO EACH LIGHT ALONG STRUCTURAL BEAM.
8. **ALL PANELS, TERMINAL CABINETS, AND OTHER ENCLOSURES IN THIS ROOM SHALL BE STAINLESS STEEL, NEMA 4X.**
9. SEISMIC SEPARATION. PROVIDE LISTED SEISMIC DEFLECTION/EXPANSION FITTINGS ON CONDUITS CROSSING THE SEPARATION.

LIGHTING NOTES

1. THE CONTRACTOR SHALL INSTALL A COMPLETE AND OPERATIONAL LIGHTING SYSTEM FULLY CONFORMING WITH THE CALIFORNIA ENERGY COMMISSION'S TITLE 24 REQUIREMENTS.
2. THE SPECIFIED LIGHTING COMPONENTS ARE PARTS OF A DIGITAL, WIRED, PROGRAMMABLE SYSTEM BASED ON THE LITHONIA LIGHT PRODUCT LINE.
3. THE SYSTEM IS CONTROLLED AND PROGRAMMED THROUGH AN LIGHT GATEWAY. THE GATEWAY REQUIRES A 120V OUTLET AT THE ELECTRONICS BACKBOARD. THE GATEWAY CONNECTS TO OWNERS LAN WITH A CAT 5e CABLE.
4. EACH ROOM/AREA SHALL BE CONNECTED TO LIGHT BRIDGES WITH CAT 5e CABLES. EACH BRIDGE REQUIRES A 120V OR 277V CONNECTION TO THE NORMAL LIGHTING CIRCUIT IN THE ATTIC SPACE. WIRE THE OUTLET(S) TO A 120V CIRCUIT AT BUILDING PANEL. THE BRIDGES ARE THEN CONNECTED TOGETHER AND TO THE LIGHT GATEWAY WITH CAT 5e CABLES TO COMPLETE THE NETWORK.
5. EACH FIXTURE REQUIRES LINE VOLTAGE, UNSWITCHED POWER, AND HAS A BUILT-IN LIGHT CONTROLLER.
6. SOME LOADS SUCH AS DOWNLIGHTS AND SIGNS ARE WIRED TO AND CONTROLLED BY AN LIGHT POWER PACK WITH DIMMING CAPABILITY. POWER PACKS REQUIRE LINE VOLTAGE, UNSWITCHED POWER. VERIFY THE DIMMING PROTOCOL OF DIMMING FIXTURES.
7. LIGHTING AND DEVICE CONTROL IS ACCOMPLISHED BY CONNECTING COMPONENTS SUCH AS FIXTURES, POWER PACKS, SWITCHES, AND SENSORS IN EACH ROOM/AREA TOGETHER WITH FACTORY CAT 5e CABLES. INTERCONNECT CABLING IS NOT ALL DEPICTED ON THE PLAN IN ORDER TO KEEP THE DRAWING UNCLUTTERED.
8. THE CONTRACTOR SHALL FURNISH SYSTEM PROGRAMMING BY THE FACTORY'S AUTHORIZED PERSONNEL OR THE FACTORY'S APPROVED THIRD PARTY VENDOR TO ENSURE COMPLIANCE WITH TITLE 24. THE CONTRACTOR SHALL NOT ATTEMPT PROGRAMMING UNLESS AUTHORIZED BY THE FACTORY.
9. ANY PROPOSED SUBSTITUTE SYSTEM MUST MEET ALL THE REQUIREMENTS OF TITLE 24.
10. IN THE AREA OF GYPSUM BOARD CEILING, LOW VOLTAGE LIGHTING CONTROL WIRING SHALL BE INSTALLED CONCEALED IN CONDUIT.
11. CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS AFTER INSTALLATION AND BEFORE PROJECT COMPLETION.
12. LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT). A LISTING OF CERTIFIED ATT'S CAN BE FOUND AT [HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM](https://www.energy.ca.gov/programs-and-topics/programs/acceptance-test-technician-certification-provider-program). ACCEPTANCE, THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDING OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE LIGHTING SYSTEM CONFORMS AND PASSES THE REQUIRED ACCEPTANCE CRITERIA.
13. ALL RACEWAYS, COUPLINGS, STRAPS, ANCHORS, AND WIRING IN POOL EQUIPMENT ROOM, ACID, CHLORINE, AND POOL EQUIPMENT ENCLOSURE SHALL CONFORM TO CEC ARTICLE 680.14 AND SHALL BE UL LISTED AND ETL VERIFIED FOR SUCH USE. THE EXPOSED ELECTRICAL INSTALLATION SHALL BE FINISHED WITH PVC ANTI-CORROSIVE COATINGS. ALL UNISTRUTS SHALL HAVE A DEFENDER FINISH.
14. ALL CONDUIT PENETRATIONS THROUGH CMU WALLS SHALL BE PER DETAIL E10X/104.

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Tulare, CA 93274

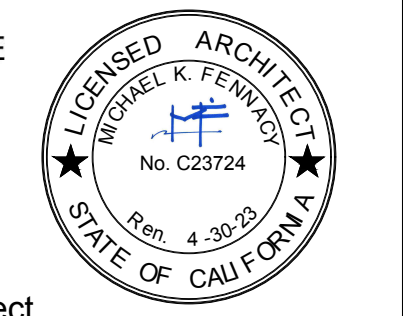
Project

BUILDINGS P2, P3, P4
LIGHTING PLANS

Drawing

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1	REVISION_01	05/31/2023

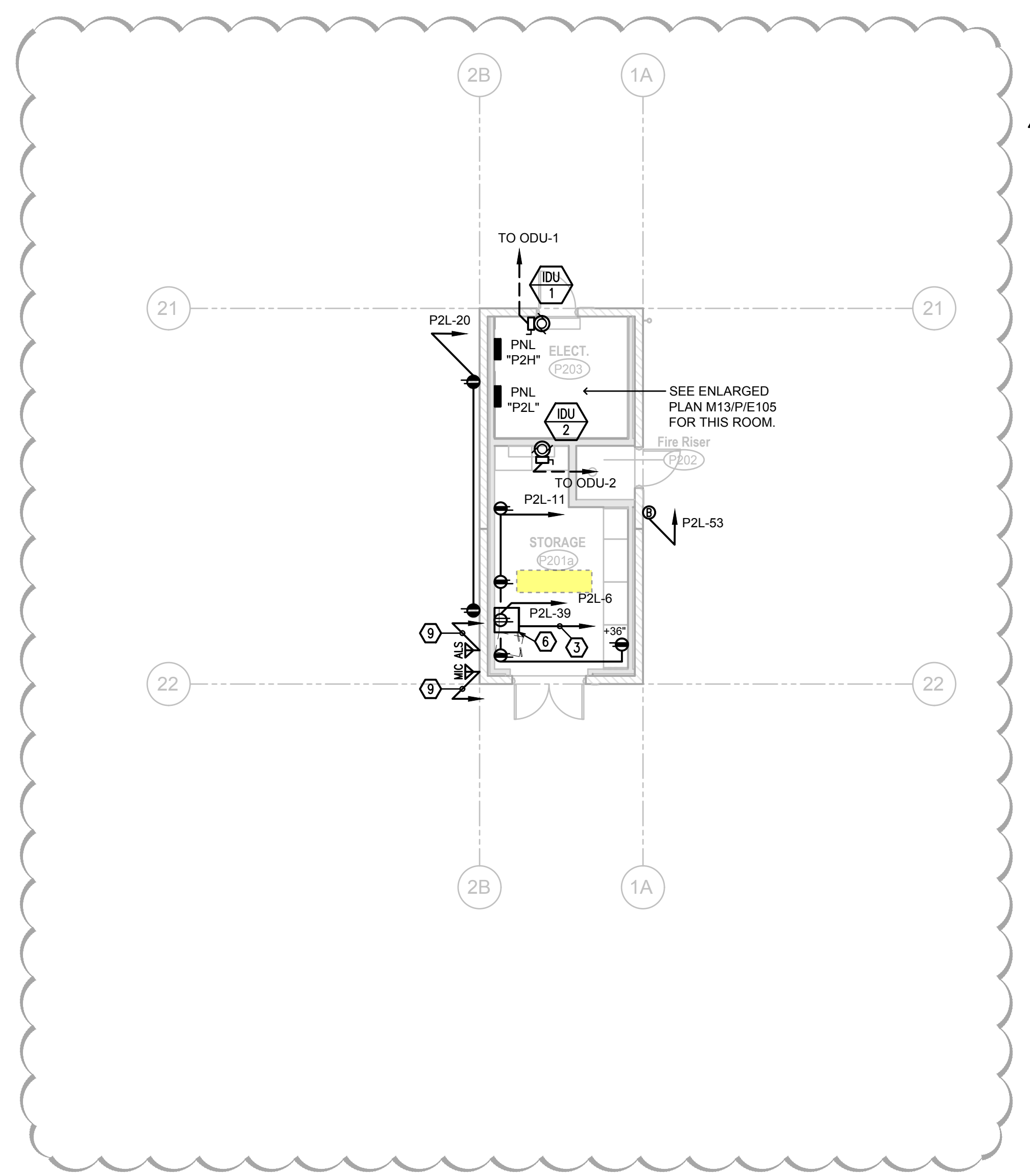
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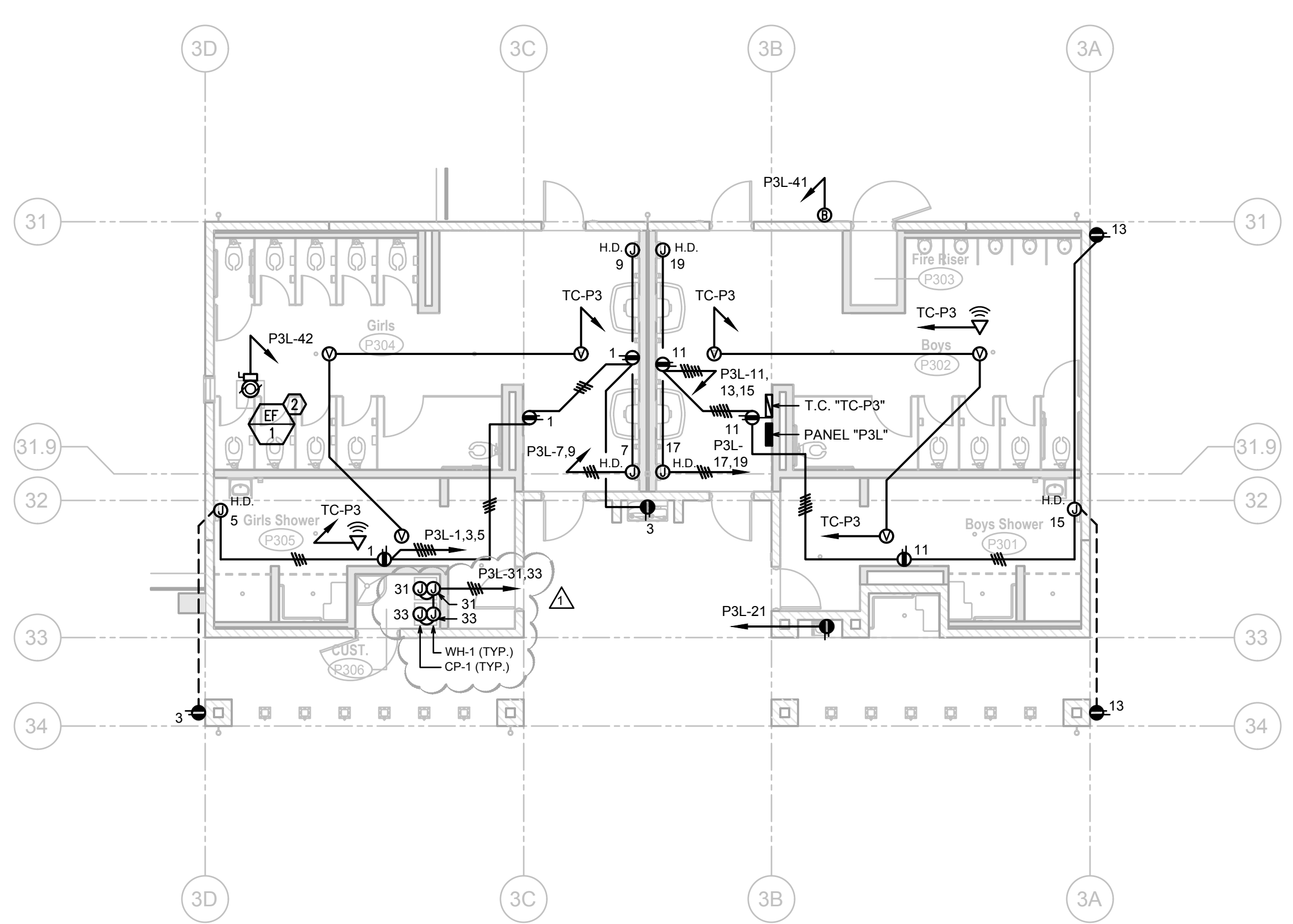
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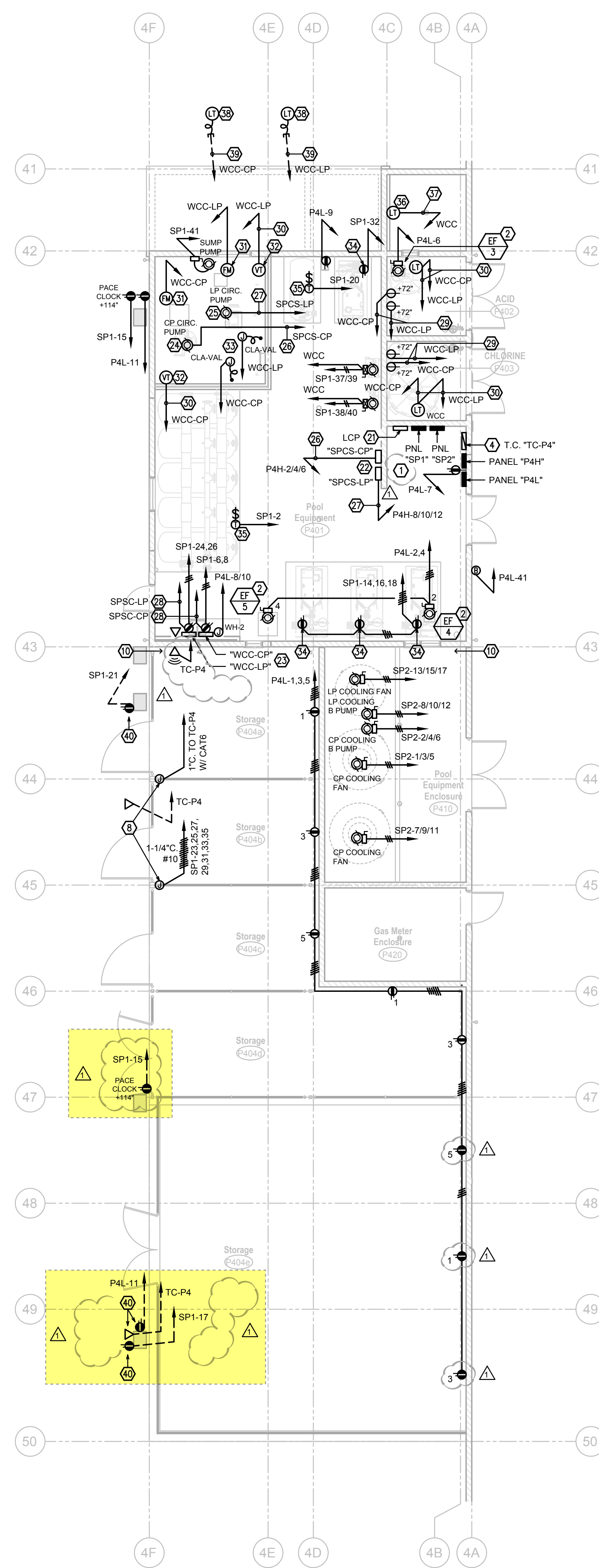
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APP: 02-120251, INC.
REVISED FOR PLS ID ACS ID
68 ID DATE 08/28/2023



J1 Power & Datacomm Plan - Building P2
1/8" = 1'-0"



A1 Power & Datacomm Plan - Building P3
1/8" = 1'-0"



A9 Power & Datacomm Plan - Building P4
1/8" = 1'-0"

DSA File No.: 54-H11

DSA Application No.: 02-120251

Agency Approval

KEYNOTES

1. ALL PANELS, TERMINAL CABINETS, AND OTHER ENCLOSURES IN THIS ROOM SHALL BE STAINLESS STEEL, NEMA 4X.
2. CONNECT EXHAUST FAN AND INTERLOCK CONTROL AS PER MECHANICAL PLANS.
3. 2"C. TO ELECTRICAL ROOM.
4. 24"W x 24"H x 8"D HIGHED TERMINAL CABINET WITH LOCK HASP.
5. FURNISH AND INSTALL A COMPLETE AND OPERATIONAL AUDIO VISUAL SYSTEM, INCLUDING: SAMSUNG UN60JUB600 OR CURRENT EQUIVALENT TV MONITOR, TV MONITOR MOUNT, EPSON ELPS02 SPEAKERS, AND ALL CABLING, BALLANS, SETUP, CALIBRATION, AND REQUIRED APPURTENANCES. SEE DETAIL A3X/E107.
6. PROVIDE A COMPLETE AND OPERATIONAL POOL AREA AUDIO SYSTEM CONSISTING OF THE FOLLOWING MINIMUM COMPONENTS:
 - CFI CUBESIT FAK: 24"X24"X18" GLASS WINDOW, OPERATING WEIGHT W/ EQUIPMENT = 188 LBS. MOUNT CABINET PER L1XE105.
 - POWER DISTRIBUTION UNIT W/ INTEGRAL SURGE SUPPRESSOR
 - SHURE RSCM10 8-CHANNEL MIXER, RACK MOUNT KIT
 - DBX #231S DUAL CHANNEL 31 BAND 1/3 OCTAVE GRAPHIC EQUALIZER, RACK MOUNT KIT
 - ATLAS SCP700 700 WATT AMPLIFIER, RACK MOUNT KIT
 - SHURE AUXS2458 W (2) WIRELESS MICS & RECEIVER, RACK MOUNT KIT, REMOTE MOUNT ANTENNA AT SOUTHWEST CORNER OF ROOF
 - (3) SHURE #5858 WIRED MICS W/ W/ 20 FT. CABLES
 - WILLIAMS AV #M 558-24 PRO KIT ALS TRANSCIVER WITH REMOTE ANTENNA AT SOUTHWEST CORNER OF ROOF. (1) PORTABLE TRANSMITTER, (2) PORTABLE RECEIVERS, (2) EAR BUDS, (6) NECK LOOPS, (2) 12-BAY CHARGERS, RACK MOUNT KIT
 - (2) ATLAS FS12T-68 SPEAKERS MOUNTED AT SCOREBOARD WITH CABLES TO AUDIO CABINET. SEE ARCHITECTURAL PLANS.
 - (2) TOMBSTONE INPUT STATIONS EACH WITH (2) XLR MIC INPUTS AND (1) 1/8" TRS INPUT. SEE SITE PLAN FOR LOCATIONS.
 - ALL REQUIRED CABLING AND INTERCONNECTS.
7. 1"C. W/ (2) SHIELDED MICROPHONE CABLES AND TRS AUDIO CABLE.
8. RISE CONDUITS AT BACK OF SCOREBOARD. CONNECT POWER AND DATA.
9. 1"C. TO AUDIO SYSTEM CABINET.
10. SEISMIC SEPARATION: PROVIDE LISTED SEISMIC DEFLECTION/ EXPANSION FITTINGS ON CONDUITS CROSSING THE SEPARATION.
21. POOL LIGHTS CONTACTOR PANEL. SEE SHEET MR-1.
22. SMART PUMP CONTROL VARIABLE SPEED DRIVE SYSTEM "SPCS-CP" AND "SPCS-LP".
23. WATER CHEMISTRY CONTROLLER "WCC-CP" AND "WCC-LP".
24. CONNECT CIRCULATION PUMP: 480V 3Ø, 50HP TO CIRCUIT P4H-2/4/6 WITH 1 1/4"C. 3Ø, 1#0G.
25. CONNECT CIRCULATION PUMP: 480V 3Ø, 7.5HP TO CIRCUIT P4H-8/10/12 WITH 3/4"C. 3Ø, 1#0G.
26. 1 1/4"C. 3Ø, 1#0G.
27. 3/4"C. 3Ø, 1#10G.
28. 3/4"C. 4Ø, 1#12G.
29. 1/2"C. 2Ø, 1#12G.
30. 1/2"C. 1Ø, 2TSP.
31. CONNECT FLOW METER.
32. CONNECT VACUUM TRANSMITTER.
33. CONNECT CLA-VAL SOLENOID.
34. VERIFY OUTLET LOCATION FOR HEATER PRIOR TO ROUGH-IN.
35. 120V-24VAC TRANSFORMER PER FILTRATION CONTROLLER SPECS.
36. CONNECT BACKWASH PIT LEVEL SENSOR.
37. 1/2"C. 1Ø, 2.
38. STUB INTO SURGE CHAMBER NEAR STILLING PIPE AND CONNECT LEVEL.
39. 1"C. 1Ø, 2TSP.
40. MOUNT DEVICE ON THE COLUMN.

POWER & SYSTEMS NOTES

1. ALL WORK AT THE POOLS AND RELATED POOL EQUIPMENT SHALL CONFORM WITH CEC ARTICLE 680. REFER TO AQUATIC DESIGN GROUP DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL ELECTRICAL WORK (E.G., POOL LIGHTING, TIMING EQUIPMENT, GROUNDING, ETC.) AT THE POOLS AND RELATED EQUIPMENT ROOMS.
2. ALL RACEWAYS, COUPLINGS, STRAPS, ANCHORS, AND WIRING IN POOL EQUIPMENT ROOM, ACID, CHLORINE, AND POOL EQUIPMENT ENCLOSURE SHALL CONFORM TO CEC ARTICLE 680.14 AND SHALL BE UL LISTED AND ETL VERIFIED FOR SUCH USE. THE EXPOSED ELECTRICAL INSTALLATION SHALL BE FINISHED WITH PVC ANTI-CORROSIVE COATINGS. ALL UNISTRUTS SHALL HAVE A DEFENDER FINISH.
3. ALL CONDUIT PENETRATIONS THROUGH CMU WALLS SHALL BE PER DETAIL E110S/104.

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Project

BUILDINGS P2, P3, P4
POWER & DATACOMM PLANS

Drawing

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1	REVISION_01	05/31/2023

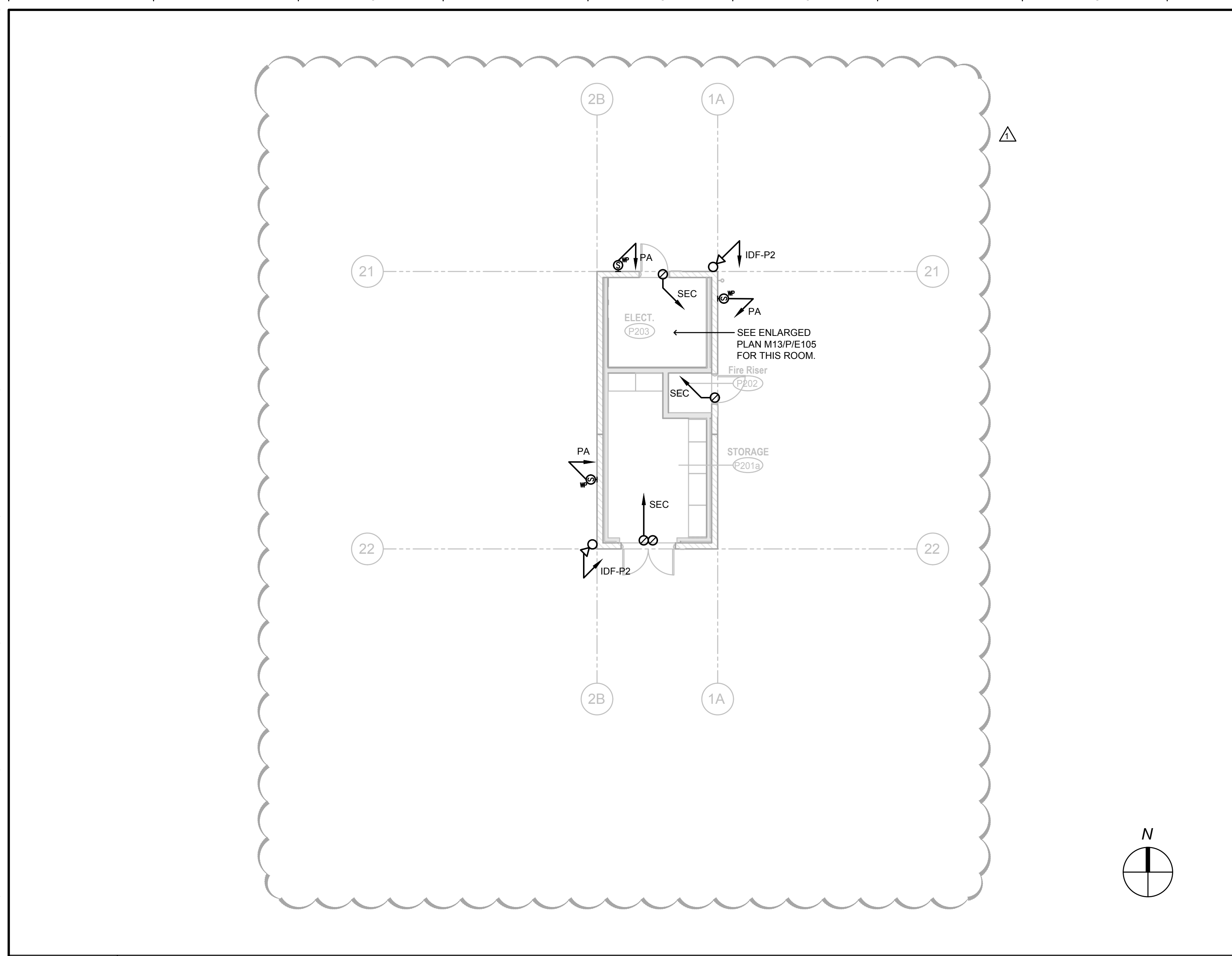
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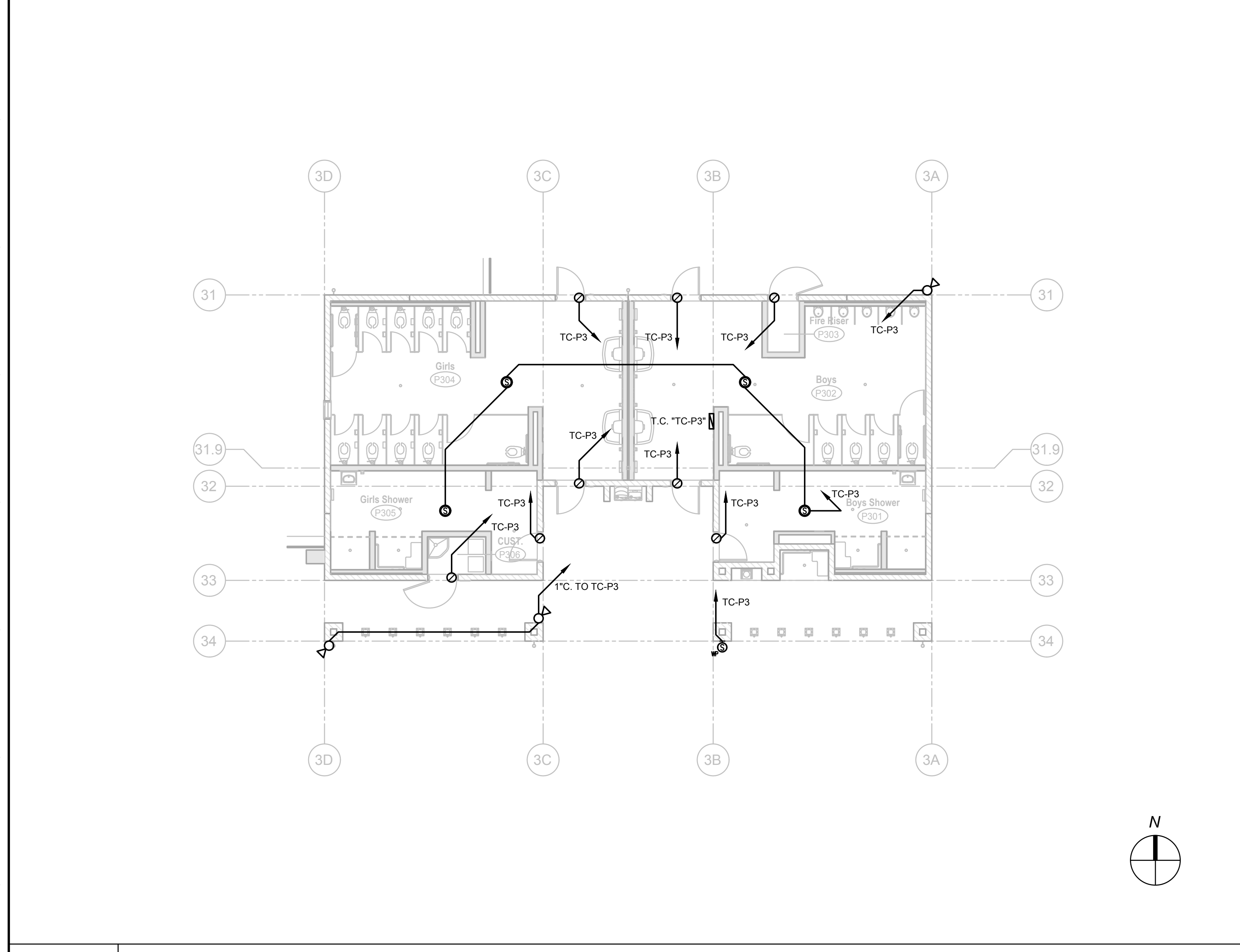
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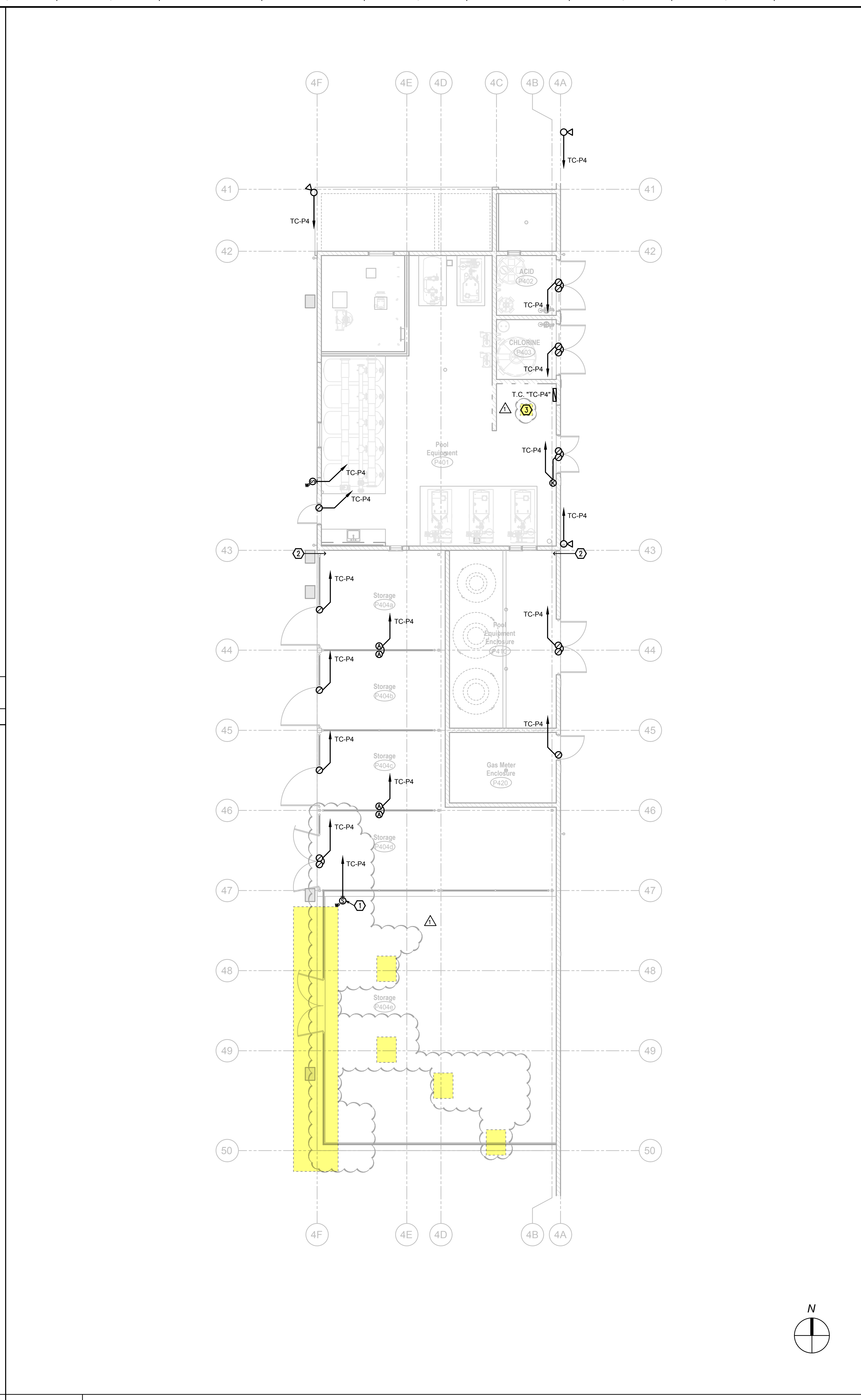
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J1 PA & Intrusion Systems Plan - Building P2
1/8" = 1'-0"



A1 PA & Intrusion Systems Plan - Building P3
1/8" = 1'-0"



A9 PA & Intrusion Systems Plan - Building P4
1/8" = 1'-0"

DSA File No.: 54-H11
DSA Application No.: 02-120251
Agency Approval

- KEYNOTES**
1. MOUNT DEVICE ON THE STEEL PLATE. SEE ARCHITECTURAL DETAIL N11PIA04
 2. SEISMIC SEPARATION. PROVIDE LISTED SEISMIC DEFLECTION/ EXPANSION/ FITTINGS ON CONDUITS CROSSING THE SEPARATION.
 3. ALL PANELS, TERMINAL CABINETS, AND OTHER ENCLOSURES IN THIS ROOM SHALL BE STAINLESS STEEL, NEMA 4X.

- POWER & SYSTEMS NOTES**
1. ALL WORK AT THE POOLS AND RELATED POOL EQUIPMENT SHALL CONFORM WITH CEC ARTICLE 680. REFER TO AQUATIC DESIGN GROUP DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL ELECTRICAL WORK (E.G. POOL LIGHTING, TIMING EQUIPMENT, GROUNDING, ETC.) AT THE POOLS AND RELATED EQUIPMENT ROOMS.
 2. ALL RACEWAYS, COUPLINGS, STRAPS, ANCHORS, AND WIRING IN POOL EQUIPMENT ROOM, ACID, CHLORINE, AND POOL EQUIPMENT ENCLOSURE SHALL CONFORM TO CEC ARTICLE 680.14 AND SHALL BE UL LISTED AND ETL VERIFIED FOR SUCH USE. THE EXPOSED ELECTRICAL INSTALLATION SHALL BE FINISHED WITH PVC ANTI-CORROSIVE COATINGS. ALL UNISTRUTS SHALL HAVE A DEFENDER FINISH.
 3. ALL CONDUIT PENETRATIONS THROUGH CMU WALLS SHALL BE PER DETAIL E11X/S104.

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Tulare Joint Union High School District
Tulare, CA 93274

Project

BUILDINGS P2, P3, P4
PA & INTRUSION SYSTEMS PLANS

Drawing

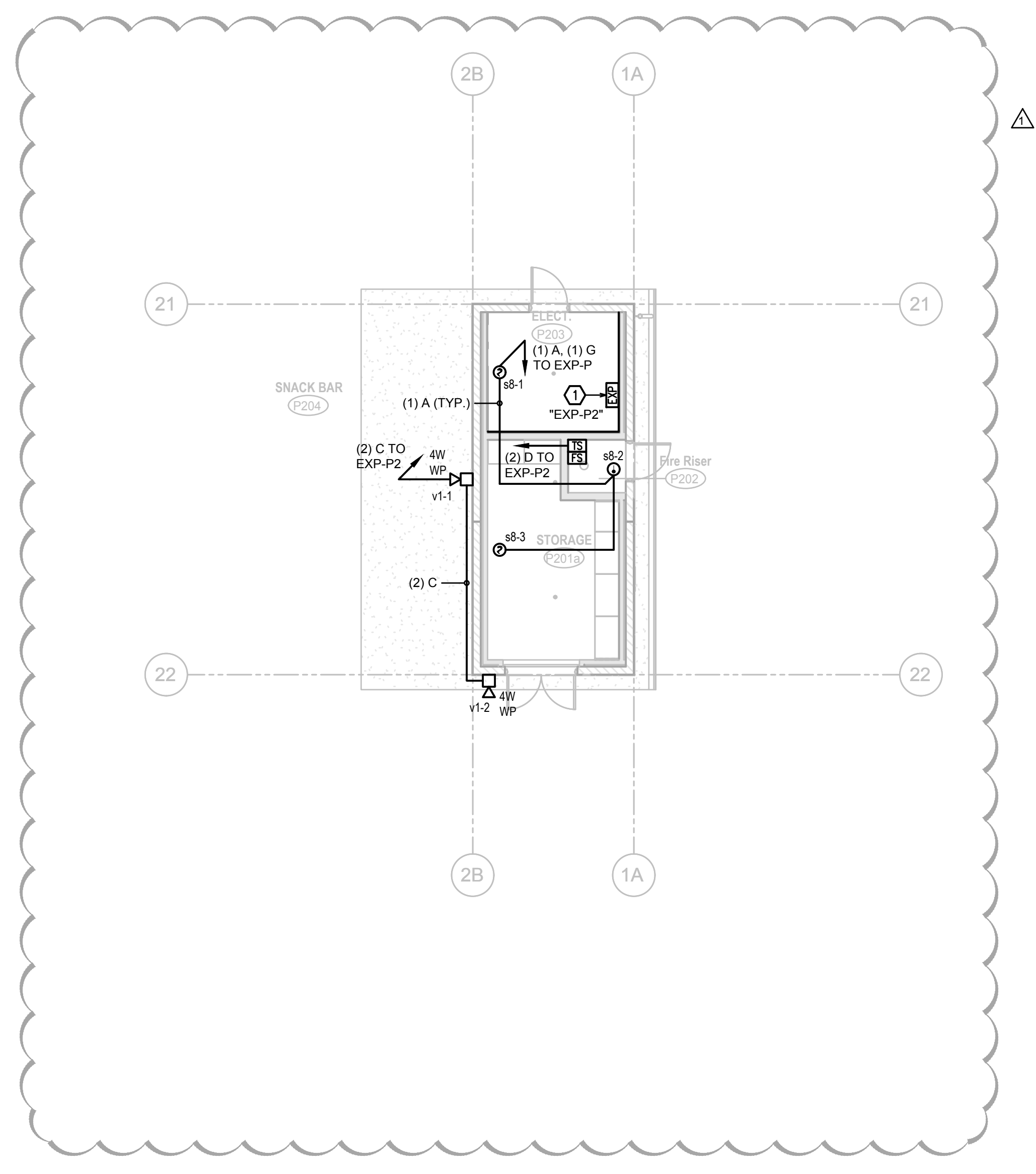
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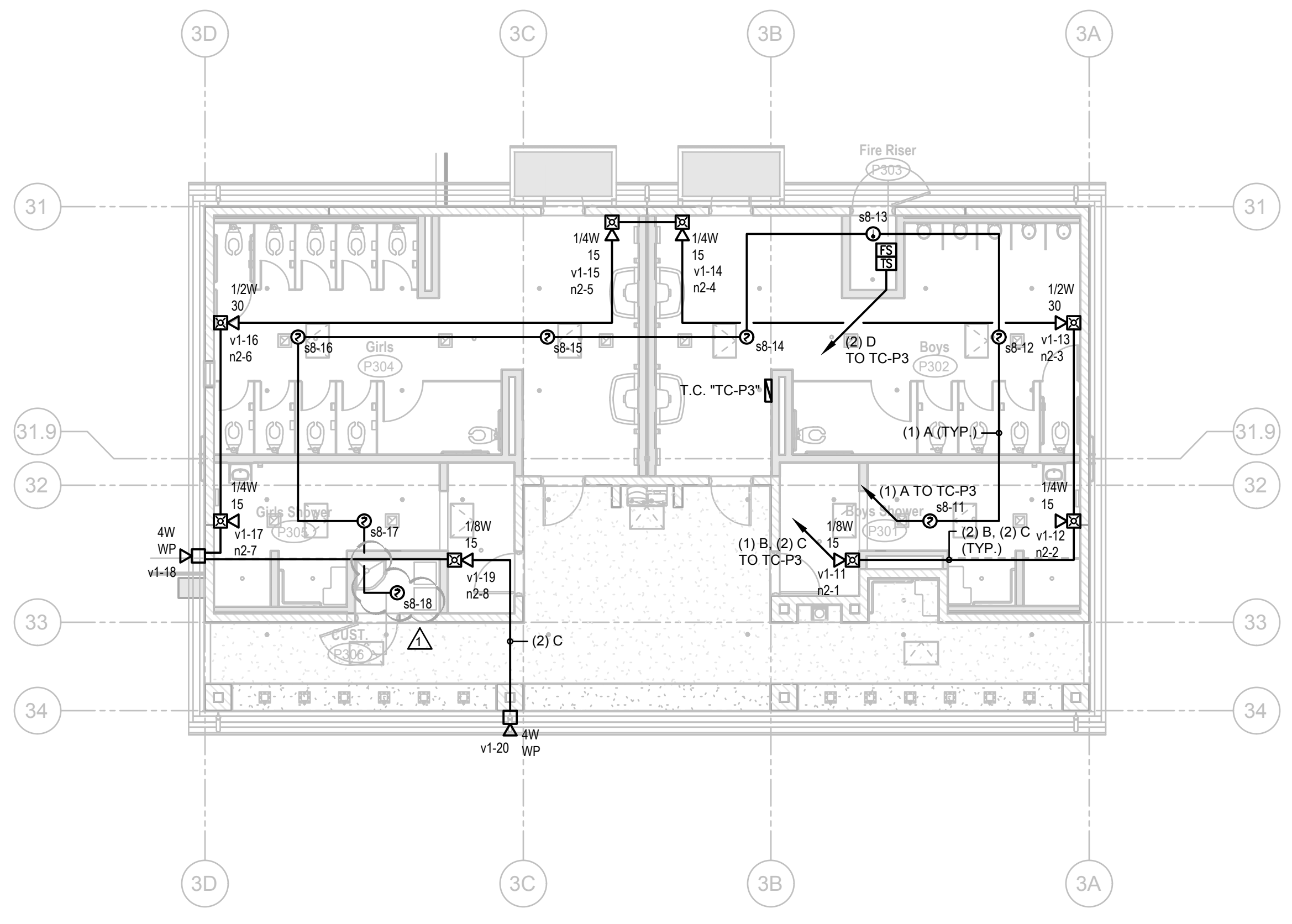
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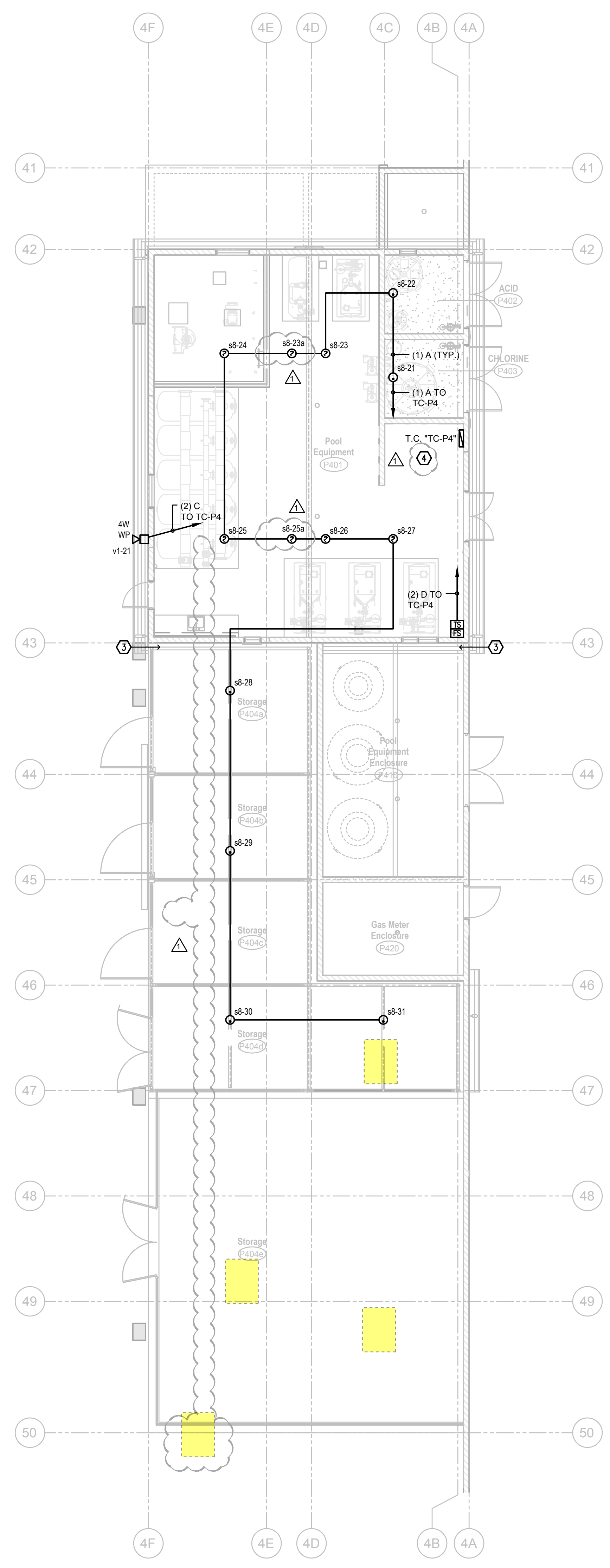
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J1 Fire Alarm Plan - Building P2
1/8" = 1'-0"



A1 Fire Alarm Plan - Building P3
1/8" = 1'-0"



A9 Fire Alarm Plan - Building P4
1/8" = 1'-0"

DSA File No.: 54-H11
DSA Application No.: 02-120251
Agency Approval

- KEYNOTES**
1. INSTALL FIRE ALARM NAC EXPANDER PANEL. CONNECT TO DEDICATED 120V CIRCUIT. CONNECT FA PER FIRE ALARM SINGLE LINE DIAGRAM AT 1X/20X.
 2. NOT USED.
 3. SEISMIC SEPARATION. PROVIDE LISTED SEISMIC DEFLECTION/EXPANSION/FITTINGS ON CONDUITS CROSSING THE SEPARATION.
 4. ALL PANELS, TERMINAL CABINETS, AND OTHER ENCLOSURES IN THIS ROOM SHALL BE STAINLESS STEEL, NEMA 4X.

- POWER & SYSTEMS NOTES**
1. ALL WORK AT THE POOLS AND RELATED POOL EQUIPMENT SHALL CONFORM WITH CEC ARTICLE 680. REFER TO AQUATIC DESIGN GROUP DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL ELECTRICAL WORK (E.G. POOL LIGHTING, TIMING EQUIPMENT, GROUNDING, ETC.) AT THE POOLS AND RELATED EQUIPMENT ROOMS.
 2. ALL RACEWAYS, COUPLINGS, STRAPS, ANCHORS, AND WIRING IN POOL EQUIPMENT ROOM, ACID, CHLORINE, AND POOL EQUIPMENT ENCLOSURE SHALL CONFORM TO CEC ARTICLE 680.14 AND SHALL BE UL LISTED AND ETL VERIFIED FOR SUCH USE. THE EXPOSED ELECTRICAL INSTALLATION SHALL BE FINISHED WITH PVC ANTI-CORROSIVE COATINGS. ALL UNISTRUTS SHALL HAVE A DEFENDER FINISH.
 3. ALL CONDUIT PENETRATIONS THROUGH CMU WALLS SHALL BE PER DETAIL E11X/S104.

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Project

BUILDINGS P2, P3, P4
FIRE ALARM PLANS
Drawing

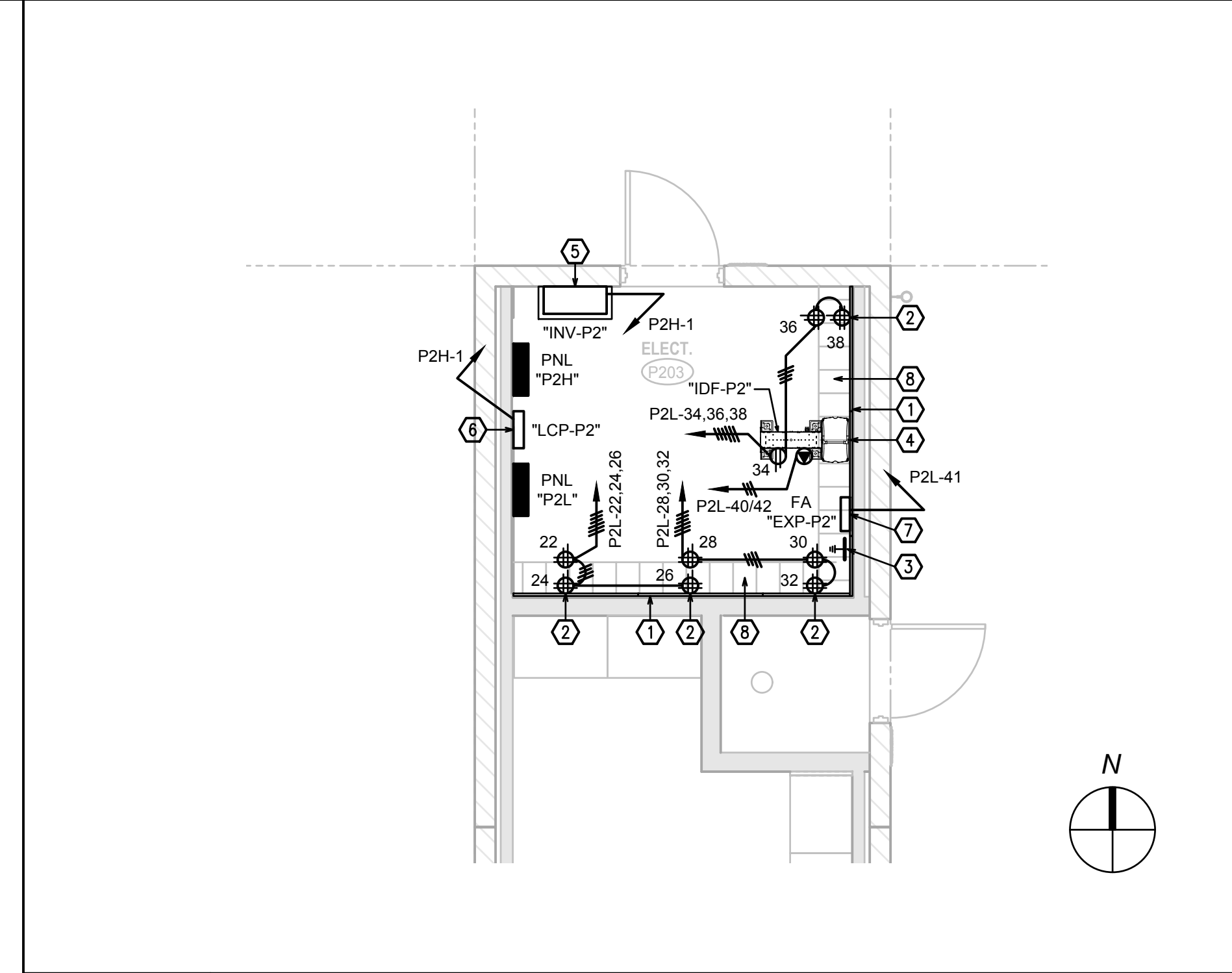
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P/E104

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M13 Enlarged Electrical Room Electrical Plan - Building P2
1/4" = 1' - 0"

DSA File No.: 54-H11
DSA Application No.: 02-120251
Agency Approval

- KEYNOTES**
1. 3/4" THICK x 8FT HIGH, FIRE-RESISTANT PLYWOOD BACKBOARD, PAINTED WITH FIRE RESISTANT PAINT. SECURE PLYWOOD TO METAL STUDS WITH #10 x MIN. 1 1/4" SELF-TAPPING METAL SCREWS AT 8" CENTERS.
 2. MOUNT OUTLETS AT BACKBOARD AT -24" AFF. AND -72" AFF.
 3. PROVIDE TELECOM GROUND BUS PER DETAIL L11X/E105 AND L15X/E105.
 4. 2-POST RACK AND CABLE MANAGEMENT SECTION PER DETAIL L6X/E105.
 5. EMERGENCY LIGHTING INVERTER "INV-P2". 90 MINUTES RUNTIME. IOTA #15C-2800-277IN-277OUT-BYPASS-0841PZ7710AMPION. SEE DETAIL M1X/E102 FOR MOUNTING.
 6. EXTERIOR LIGHTS LIGHTING CONTROL PANEL "LCP-P2". LITHONIA ARP-INTENC16-NLT-16FCR-MVOLT-2VB-HLK-SM-DTC.
 7. FIRE ALARM NAC EXPANDER PANEL. CONNECT TO DEDICATED 120V 20A CIRCUIT. CIRCUIT BREAKER TO BE EQUIPPED WITH RED HANDLE LOCK-ON DEVICE AND LABEL READING "FIRE ALARM CIRCUIT. DO NOT TURN OFF". CONNECT FA. SEE FIRE ALARM PLANS.
 8. LADDER RACK SYSTEM PER DETAIL J1X/E107.

- POWER & SYSTEMS NOTES**
1. ALL WORK AT THE POOLS AND RELATED POOL EQUIPMENT SHALL CONFORM WITH CEC ARTICLE 680. REFER TO AQUATIC DESIGN GROUP DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL ELECTRICAL WORK (E.G. POOL LIGHTING, TIMING EQUIPMENT, GROUNDING, ETC.) AT THE POOLS AND RELATED EQUIPMENT ROOMS.
 2. ALL RACEWAYS, COUPLINGS, STRAPS, ANCHORS, AND WIRING IN POOL EQUIPMENT ROOM, ACID, CHLORINE, AND POOL EQUIPMENT ENCLOSURE SHALL CONFORM TO CEC ARTICLE 680.14 AND SHALL BE UL LISTED AND ETL VERIFIED FOR SUCH USE. THE EXPOSED ELECTRICAL INSTALLATION SHALL BE FINISHED WITH PVC ANTI-CORROSIVE COATINGS. ALL UNSTRUTS SHALL HAVE A DEFENDER FINISH.
 3. ALL CONDUIT PENETRATIONS THROUGH CMU WALLS SHALL BE PER DETAIL E1X/S104.

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BUILDINGS P2, P3, P4
ENLARGED ELECTRICAL PLANS

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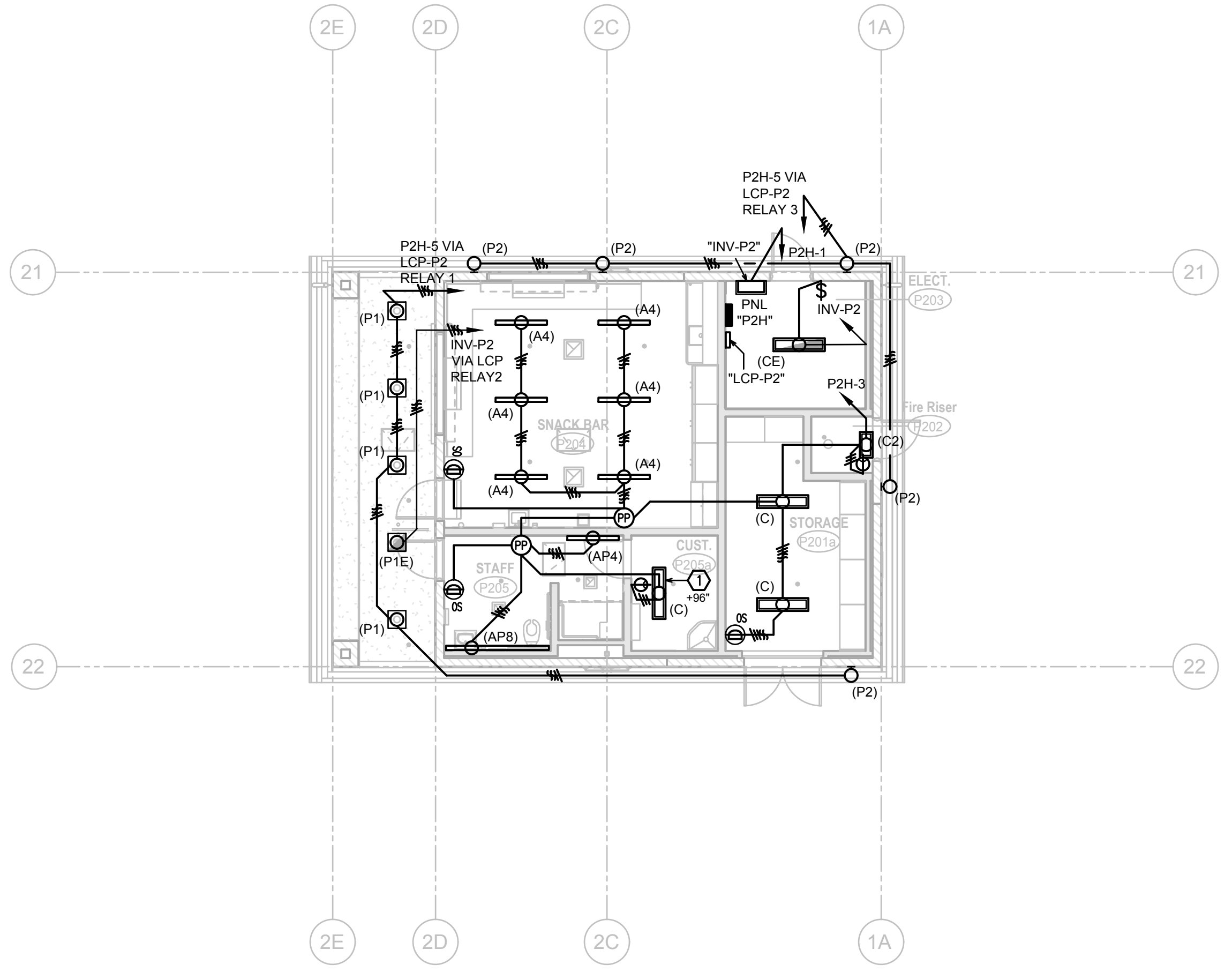
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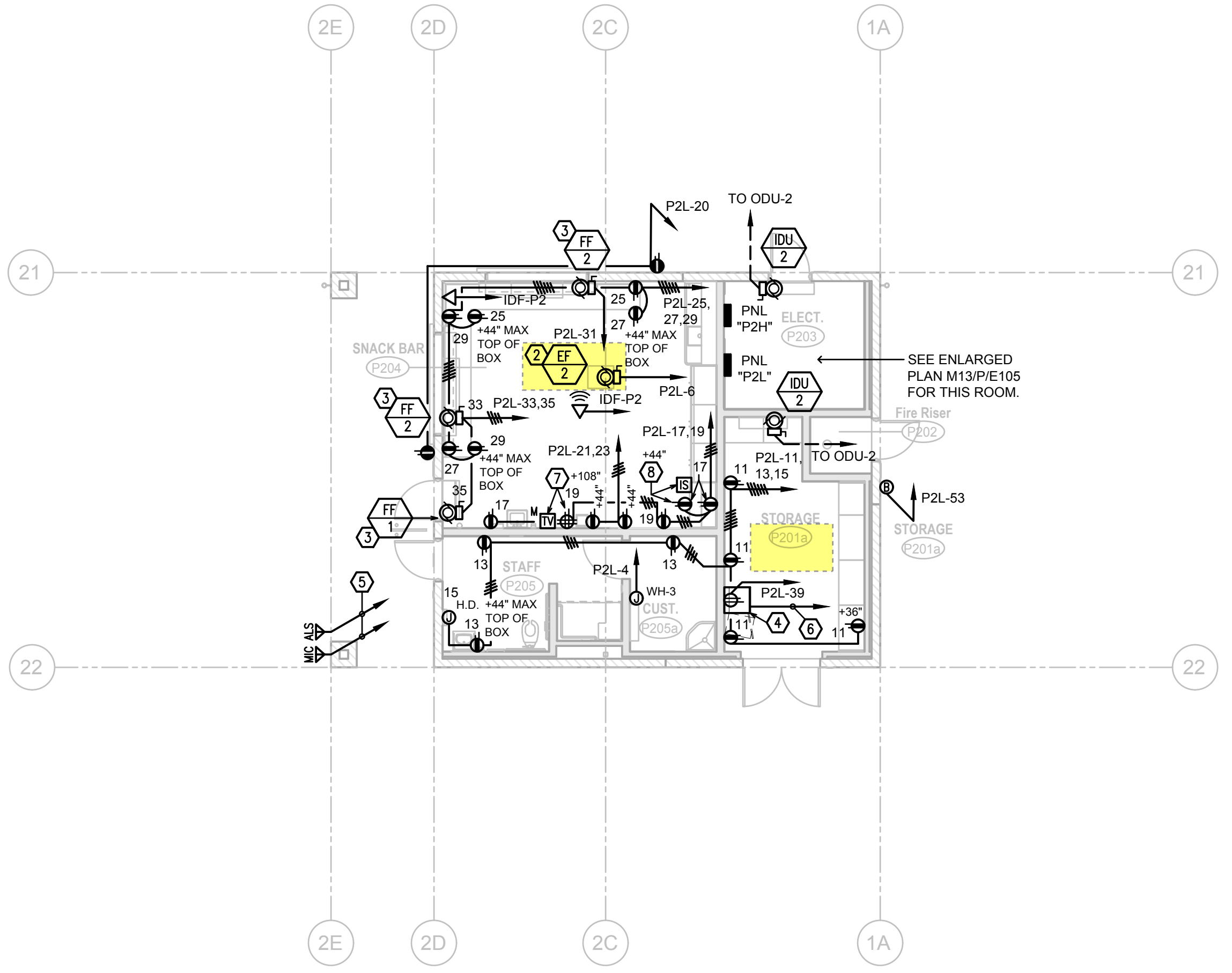
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REVISED FOR PLS ID ACS ID
SS ID _____ DATE _____ 08/28/2022

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DSA Application No.: 02-120251
Agency Approval

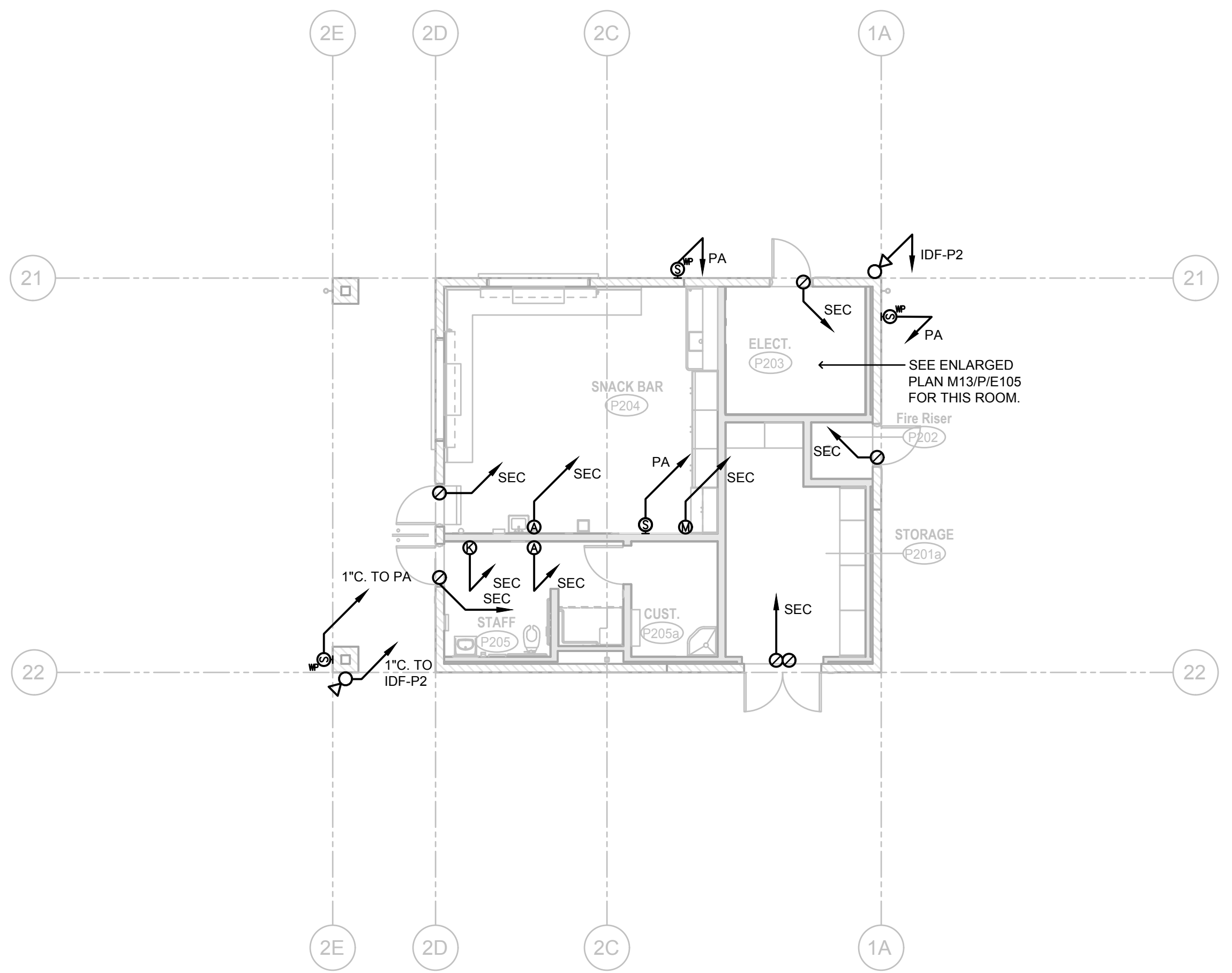
- KEYNOTES**
1. MOUNT LIGHT FIXTURE ON CENTER OF WALL AT +96" AFF. MOUNT PER DETAIL A10X/E102.
 2. CONNECT ROOF EXHAUST FAN AND INTERLOCK CONTROL AS PER MECHANICAL PLANS.
 3. CONNECT TO FLY FAN AND CONTROLS PER MANUFACTURER. VERIFY LOCATION AND HEIGHT WITH MANUFACTURER INFORMATION PRIOR TO ROUGH-IN. PROVIDE ALL REQUIREMENT PER MANUFACTURER.
 4. PROVIDE A COMPLETE AND OPERATIONAL POOL AREA AUDIO SYSTEM CONSISTING OF THE FOLLOWING MINIMUM COMPONENTS:
 - CPI CUBE IT RACK, 24"X24"X18", GLASS WINDOW, OPERATING WEIGHT W/ EQUIPMENT = 180 LBS. MOUNT CABINET PER L1X/E105.
 - POWER DISTRIBUTION UNIT W/ INTEGRAL SURGE SUPPRESSOR
 - SHURE #SCM810 8-CHANNEL MIXER, RACK MOUNT KIT
 - SBX #2315 DUAL CHANNEL 31 BAND 1/3 OCTAVE GRAPHIC EQUALIZER, RACK MOUNT KIT
 - ATLAS #CP700 700 WATT AMPLIFIER, RACK MOUNT KIT
 - SHURE #MX248S9 W/ (2) WIRELESS MICS & RECEIVER, RACK MOUNT KIT, REMOTE MOUNT ANTENNA AT SOUTHWEST CORNER OF ROOF
 - (3) SHURE #SM58 WIRED MICS W/ (4) 20 FT. CABLES
 - WILLIAMS AV #PM 558-24 PRO KIT ALS TRANSDUCER WITH REMOTE ANTENNA AT SOUTHWEST CORNER OF ROOF. (1) PORTABLE TRANSMITTER, (24) PORTABLE RECEIVERS, (24) EAR BUDS, (6) NECK LOOPS, (2) 12-BAY CHARGERS, RACK MOUNT KIT
 - (2) ATLAS FS12T-66 SPEAKERS MOUNTED AT SCOREBOARD WITH CABLES TO AUDIO CABINET. SEE ARCHITECTURAL PLANS.
 - (2) TOMSTONE INPUT STATIONS EACH WITH (2) XLR MIC INPUTS AND (1) 1/8" TRS INPUT. SEE SITE PLAN FOR LOCATIONS
 - ALL REQUIRED CABLING AND INTERCONNECTS.
 5. 1" C. TO AUDIO SYSTEM CABINET.
 6. 2" C. TO ELECTRICAL ROOM.
 7. TV MONITOR MENU BOARD LOCATION PER DETAIL A10X/E107.
 8. TV MONITOR MENU BOARD INPUT STATION PER DETAIL A10X/E107.
 9. INSTALL FIRE ALARM NAC EXPANDER PANEL. CONNECT TO DEDICATED 120V CIRCUIT. CONNECT FA PER FIRE ALARM SINGLE LINE DIAGRAM A10X/E202.



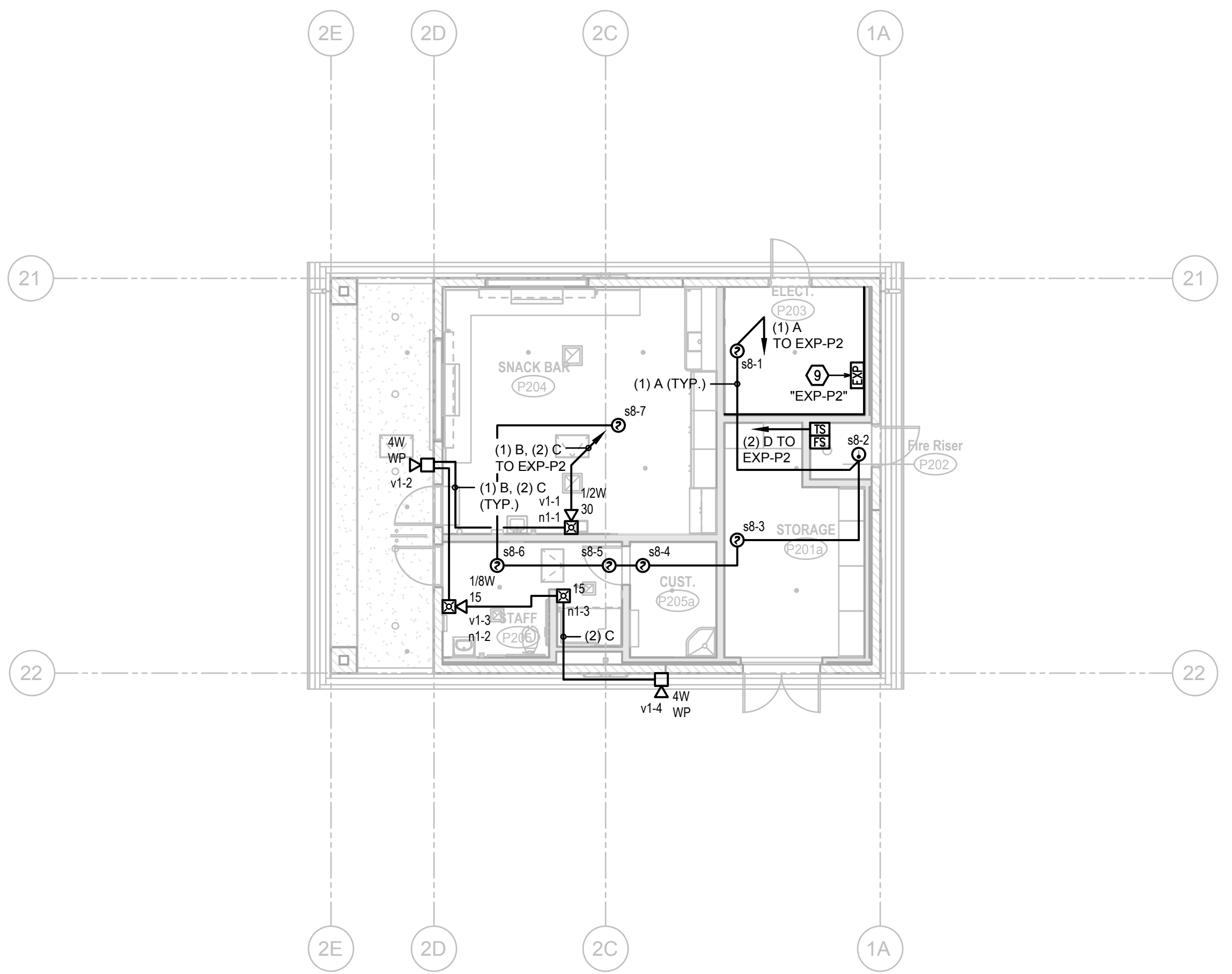
J1 Lighting Plan - Building P2
1/8" = 1'-0"



J1 Power & Datacomm Plan - Building P2
1/8" = 1'-0"



A1 PA & Intrusion Systems Plan - Building P2
1/8" = 1'-0"



A9 Fire Alarm Plan - Building P2
1/8" = 1'-0"

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Mission Oak HS Aquatic Complex
Tulare Joint Union High School District
Tulare, CA 93274

Project

BUILDINGS P2 - ALTERNATE BID
LIGHTING, POWER & DATACOMM, PA & INTRUSION SYSTEMS,
AND FIRE ALARM PLANS

Drawing

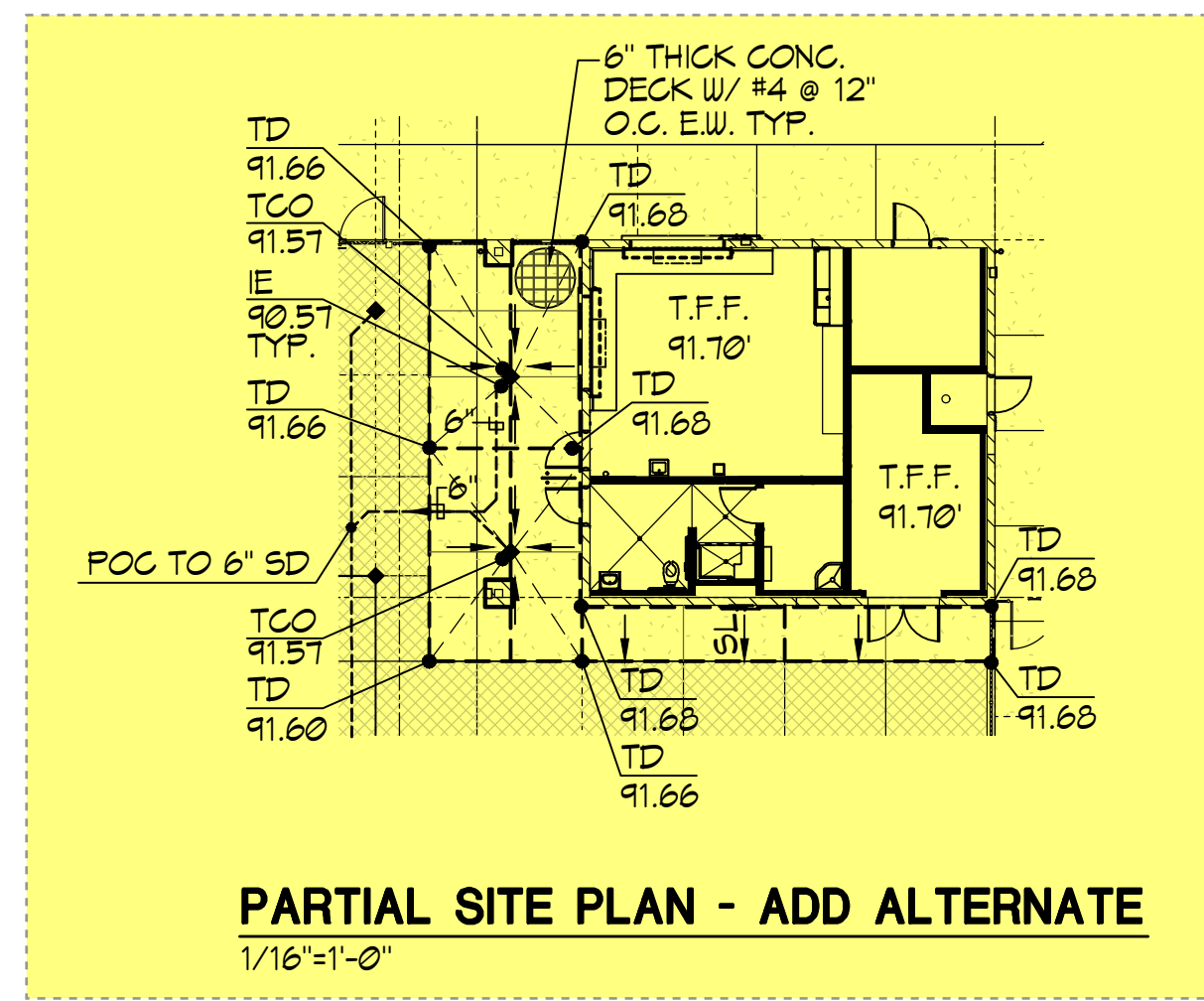
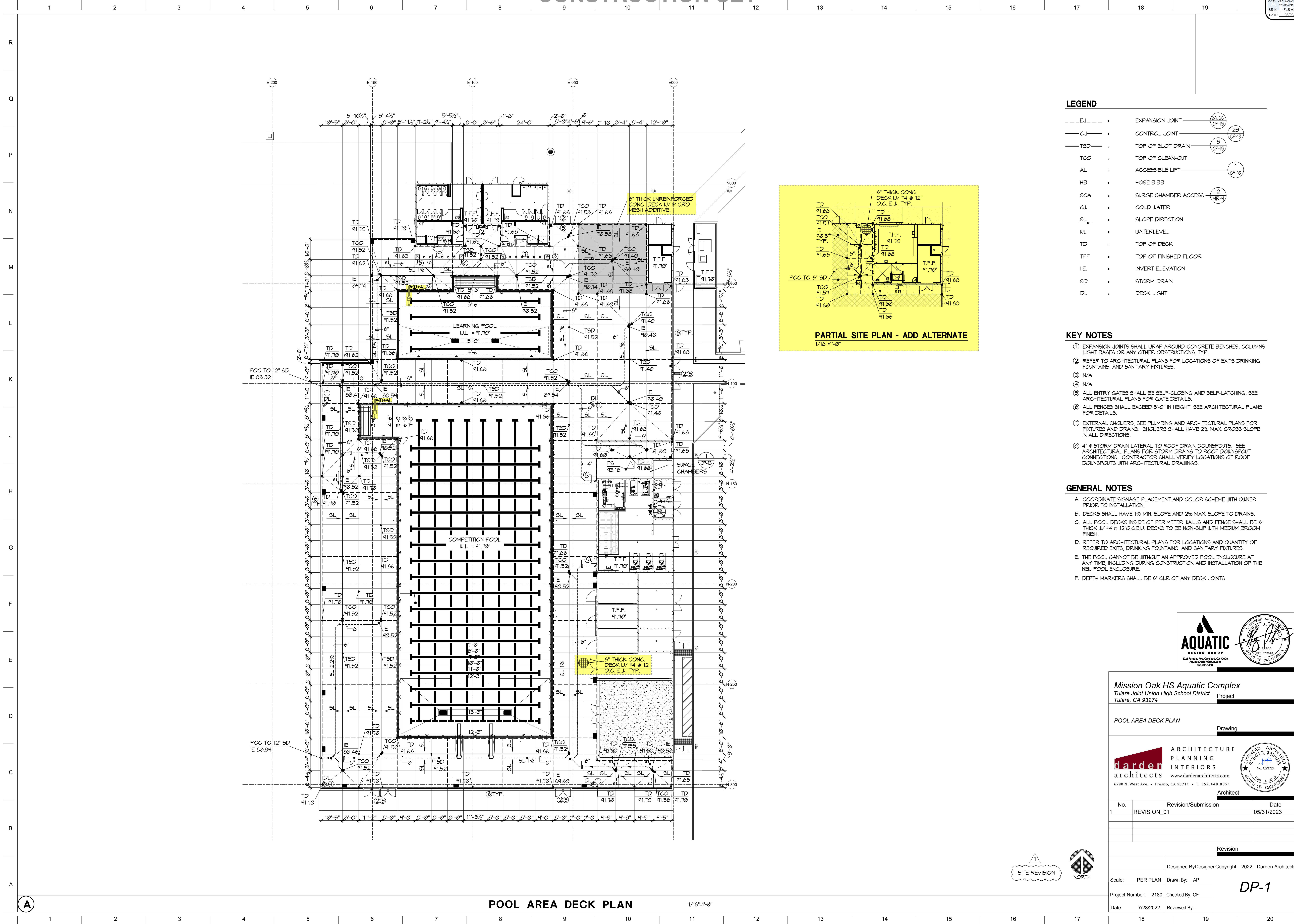
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Architect

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1	REVISION_01	05/31/2023
Revision		
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Project Number:	2180	Checked By: SD
Date:	08/02/2022	Reviewed By: SD

P/E106

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LEGEND

---EJ---	=	EXPANSION JOINT	(2A) 2C (CF-15)
---CJ---	=	CONTROL JOINT	(2B) (CF-15)
---TSD---	=	TOP OF SLOT DRAIN	(3) (CF-15)
TCO	=	TOP OF CLEAN-OUT	(1) (CF-10)
AL	=	ACCESSIBLE LIFT	(1) (CF-10)
HB	=	HOSE BIBB	
SCA	=	SURGE CHAMBER ACCESS	(2) (VR-4)
CW	=	COLD WATER	
SL	=	SLOPE DIRECTION	
WL	=	WATERLEVEL	
TD	=	TOP OF DECK	
TFF	=	TOP OF FINISHED FLOOR	
IE	=	INVERT ELEVATION	
SD	=	STORM DRAIN	
DL	=	DECK LIGHT	

- KEY NOTES**
- ① EXPANSION JOINTS SHALL WRAP AROUND CONCRETE BENCHES, COLUMNS LIGHT BASES, OR ANY OTHER OBSTRUCTIONS. TYP.
 - ② REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF EXITS, DRINKING FOUNTAINS, AND SANITARY FIXTURES.
 - ③ N/A
 - ④ N/A
 - ⑤ ALL ENTRY GATES SHALL BE SELF-CLOSING AND SELF-LATCHING. SEE ARCHITECTURAL PLANS FOR GATE DETAILS.
 - ⑥ ALL FENCES SHALL EXCEED 5'-0" IN HEIGHT. SEE ARCHITECTURAL PLANS FOR DETAILS.
 - ⑦ EXTERNAL SHOWERS, SEE PLUMBING AND ARCHITECTURAL PLANS FOR FIXTURES AND DRAINS. SHOWERS SHALL HAVE 2% MAX. GROSS SLOPE IN ALL DIRECTIONS.
 - ⑧ 4" Ø STORM DRAIN LATERAL TO ROOF DRAIN DOWNSPOUTS. SEE ARCHITECTURAL PLANS FOR STORM DRAINS TO ROOF DOWNSPOUT CONNECTIONS. CONTRACTOR SHALL VERIFY LOCATIONS OF ROOF DOWNSPOUTS WITH ARCHITECTURAL DRAWINGS.

- GENERAL NOTES**
- A. COORDINATE SIGNAGE PLACEMENT AND COLOR SCHEME WITH OWNER PRIOR TO INSTALLATION.
 - B. DECKS SHALL HAVE 1% MIN. SLOPE AND 2% MAX. SLOPE TO DRAINS.
 - C. ALL POOL DECKS INSIDE OF PERIMETER WALLS AND FENCE SHALL BE 6" THICK W/ #4 @ 12" O.C. E.W. DECKS TO BE NON-SLIP WITH MEDIUM BROOM FINISH.
 - D. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS AND QUANTITY OF REQUIRED EXITS, DRINKING FOUNTAINS, AND SANITARY FIXTURES.
 - E. THE POOL CANNOT BE WITHOUT AN APPROVED POOL ENCLOSURE AT ANY TIME, INCLUDING DURING CONSTRUCTION AND INSTALLATION OF THE NEW POOL ENCLOSURE.
 - F. DEPTH MARKERS SHALL BE 6" CLR OF ANY DECK JOINTS

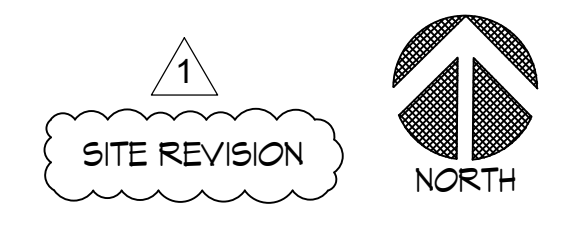


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POOL AREA DECK PLAN
Drawing



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POOL AREA DECK PLAN 1/16"=1'-0"

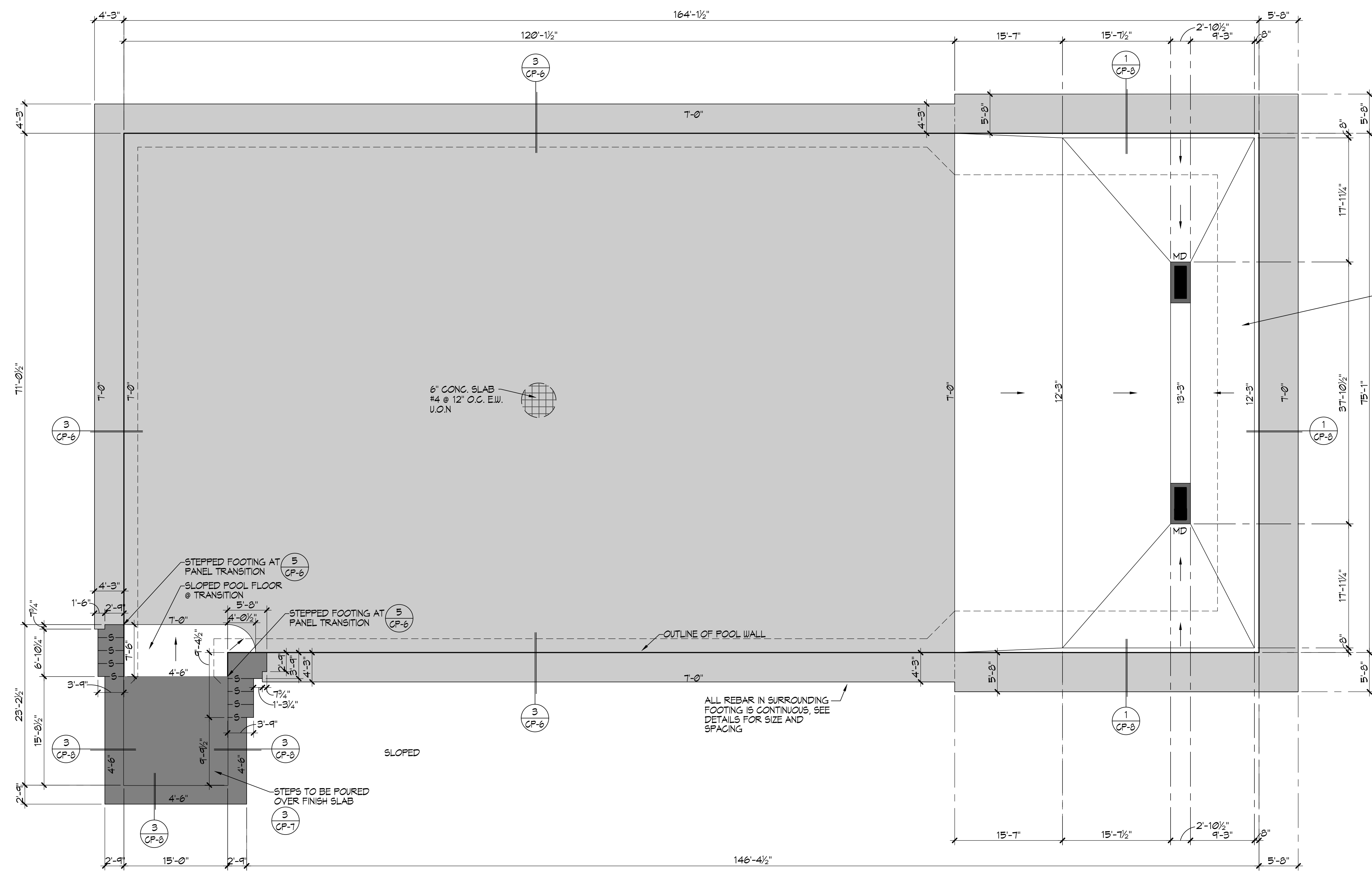
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SWIMMING POOL DATA

SURFACE AREA	=	12,610 SQ. FT.
PERIMETER	=	517 FT.
DEPTH	=	3'-6" TO 13'-3"
VOLUME	=	771,582 GAL.
6 HR TURNOVER	=	2,144 GPM

GENERAL NOTES

1. CONTRACTOR TO COORDINATE ALL DIMENSIONS WITH MANUFACTURERS SHOP DRAWINGS AND INSTALLATION RECOMMENDATIONS.
2. CONTRACTOR TO COORDINATE WITH MANUFACTURER TO MEET ALL NECESSARY SLAB & FOOTING FINISH TOLERANCES AND PROVIDE REQUIRED FOOTING TRANSITIONS.
3. CONTRACTOR TO COORDINATE WITH MANUFACTURER TO PROVIDE THE NECESSARY CONCRETE FINISHES ACROSS ALL CONCRETE SURFACES AND MEET REQUIRED EDGE TOLERANCES ACROSS TOP AND BOTTOM OF SLOPED TRANSITIONS TO MINIMIZE LINER WRINKLING OR DEFORMATION.



SLOPED POOL FLOOR AT DIVING WELL

ALL REBAR IN SURROUNDING FOOTING IS CONTINUOUS, SEE DETAILS FOR SIZE AND SPACING



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COMPETITION POOL SLAB PLAN Drawing

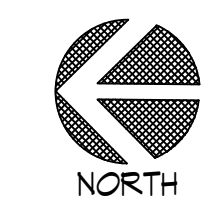
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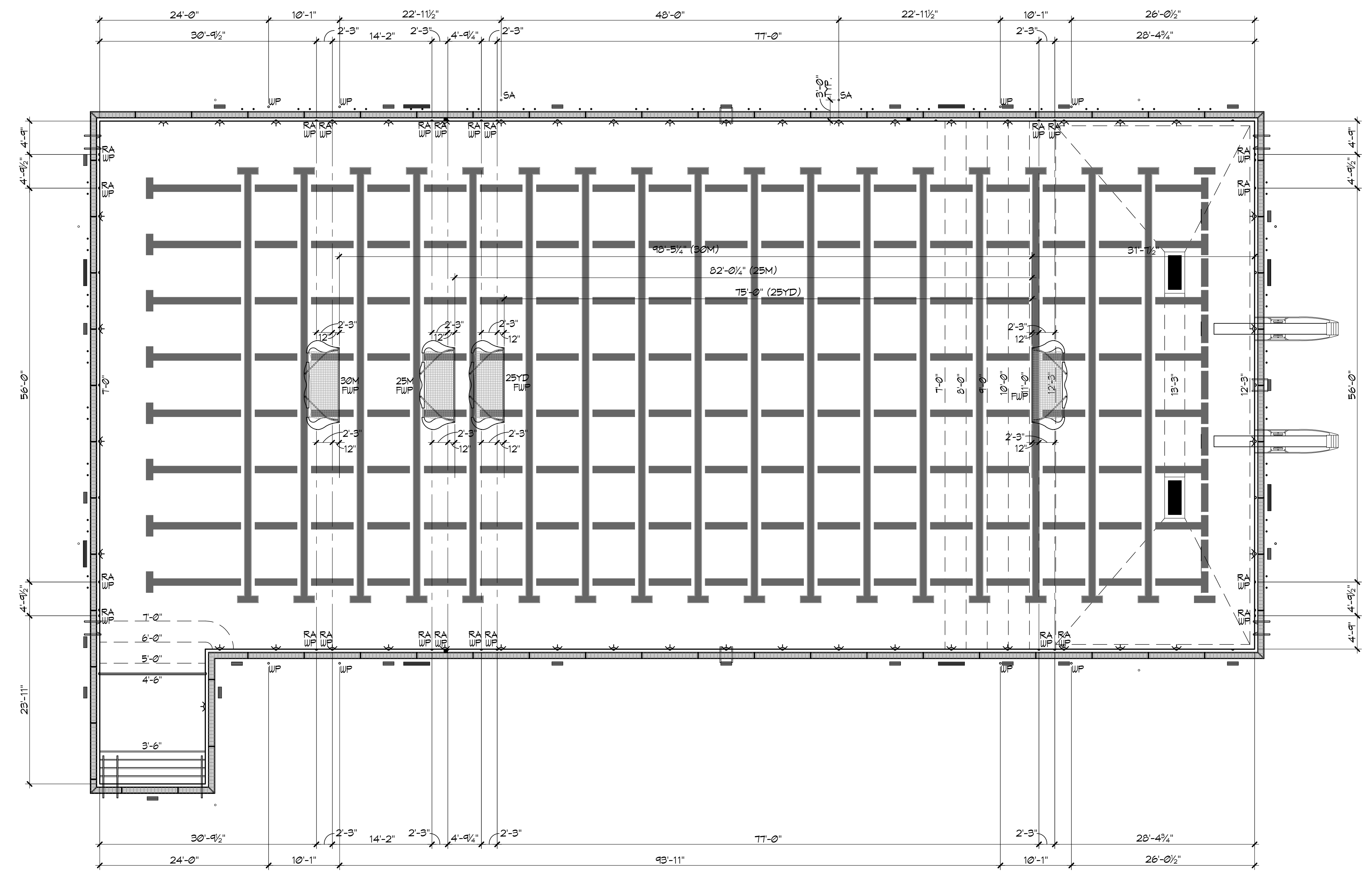
COMPETITION POOL SLAB PLAN 1/8"=1'-0"



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LEGEND

- RA = ROPE ANCHOR 5 (CP-13)
- WP = WATER POLO ANCHOR 3 (CP-10)
- SA = STANCHION ANCHOR 2 (CP-10)
- FWP = FLOATING WATER POLO 4 (CP-10)



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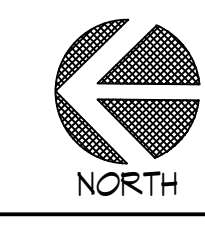
COMPETITION POOL WATERPOLO PLAN
 Drawing



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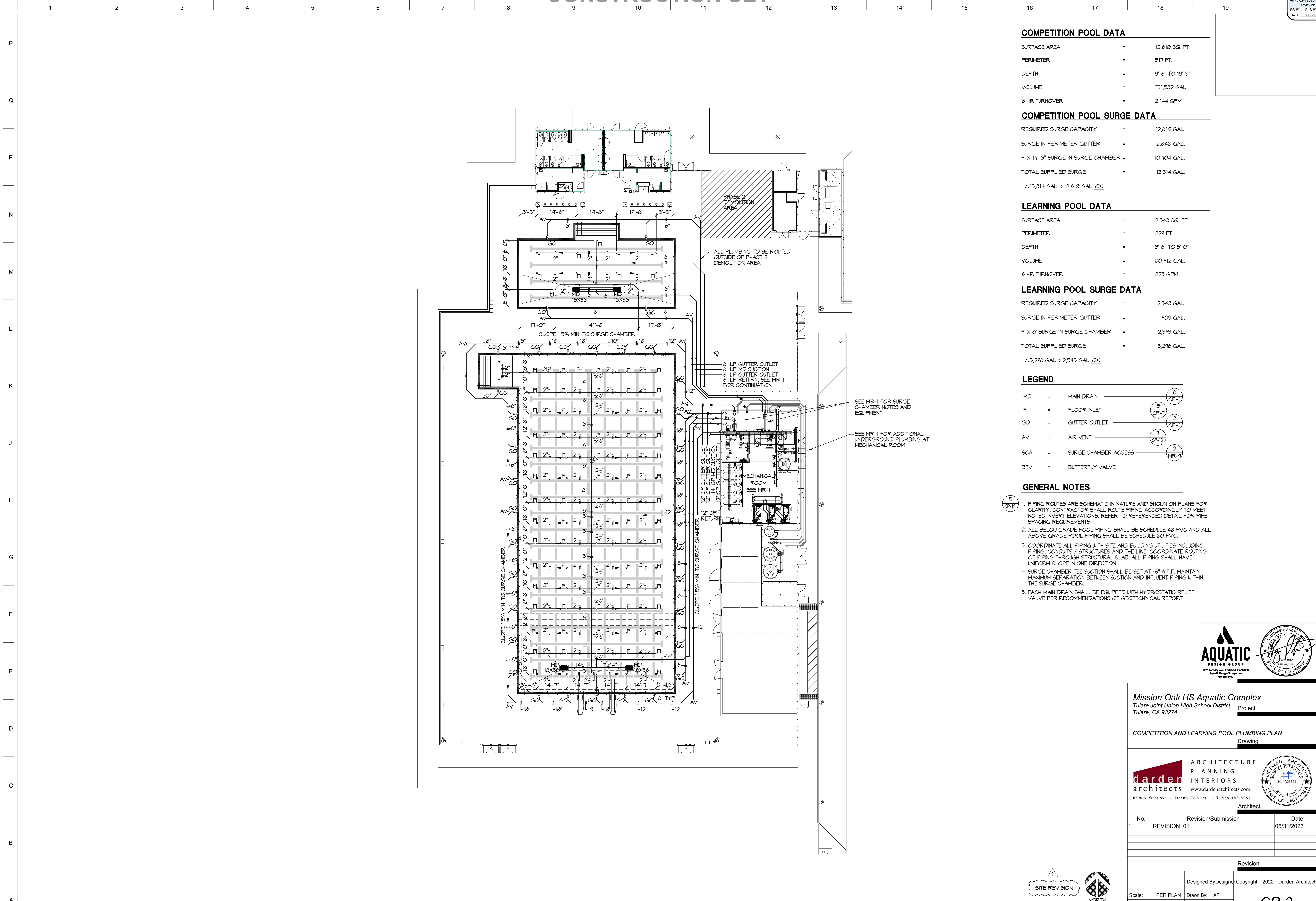
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COMPETITION POOL WATERPOLO PLAN

1/8"=1'-0"

CP-2



COMPETITION POOL DATA

SURFACE AREA	=	12,610 SQ. FT.
PERIMETER	=	511 FT.
DEPTH	=	3'-6" TO 13'-3"
VOLUME	=	771,582 GAL.
6 HR TURNOVER	=	2,144 GPM

COMPETITION POOL SURGE DATA

REQUIRED SURGE CAPACITY	=	12,610 GAL.
SURGE IN PERIMETER GUTTER	=	2,049 GAL.
9' X 17'-6" SURGE IN SURGE CHAMBER	=	10,704 GAL.
TOTAL SUPPLIED SURGE	=	13,314 GAL.
∴ 13,314 GAL. > 12,610 GAL. OK		

LEARNING POOL DATA

SURFACE AREA	=	2,543 SQ. FT.
PERIMETER	=	229 FT.
DEPTH	=	3'-6" TO 5'-0"
VOLUME	=	80,912 GAL.
6 HR TURNOVER	=	225 GPM

LEARNING POOL SURGE DATA

REQUIRED SURGE CAPACITY	=	2,543 GAL.
SURGE IN PERIMETER GUTTER	=	993 GAL.
9' X 8' SURGE IN SURGE CHAMBER	=	2,393 GAL.
TOTAL SUPPLIED SURGE	=	3,296 GAL.
∴ 3,296 GAL. > 2,543 GAL. OK		

LEGEND

MD	=	MAIN DRAIN	
FI	=	FLOOR INLET	
GO	=	GUTTER OUTLET	
AV	=	AIR VENT	
SCA	=	SURGE CHAMBER ACCESS	
BFV	=	BUTTERFLY VALVE	

GENERAL NOTES

1. PIPING ROUTES ARE SCHEMATIC IN NATURE AND SHOWN ON PLANS FOR CLARITY. CONTRACTOR SHALL ROUTE PIPING ACCORDINGLY TO MEET NOTED INVERT ELEVATIONS. REFER TO REFERENCED DETAIL FOR PIPE SPACING REQUIREMENTS.
2. ALL BELOW GRADE POOL PIPING SHALL BE SCHEDULE 40 PVC AND ALL ABOVE GRADE POOL PIPING SHALL BE SCHEDULE 80 PVC.
3. COORDINATE ALL PIPING WITH SITE AND BUILDING UTILITIES INCLUDING PIPING, CONDUITS / STRUCTURES AND THE LIKE. COORDINATE ROUTING OF PIPING THROUGH STRUCTURAL SLAB. ALL PIPING SHALL HAVE UNIFORM SLOPE IN ONE DIRECTION.
4. SURGE CHAMBER TEE SUCTION SHALL BE SET AT +6" A.F.F. MAINTAIN MAXIMUM SEPARATION BETWEEN SUCTION AND INFLUENT PIPING WITHIN THE SURGE CHAMBER.
5. EACH MAIN DRAIN SHALL BE EQUIPPED WITH HYDROSTATIC RELIEF VALVE PER RECOMMENDATIONS OF GEOTECHNICAL REPORT



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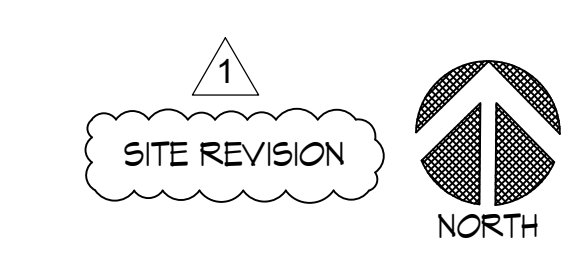
COMPETITION AND LEARNING POOL PLUMBING PLAN
Drawing

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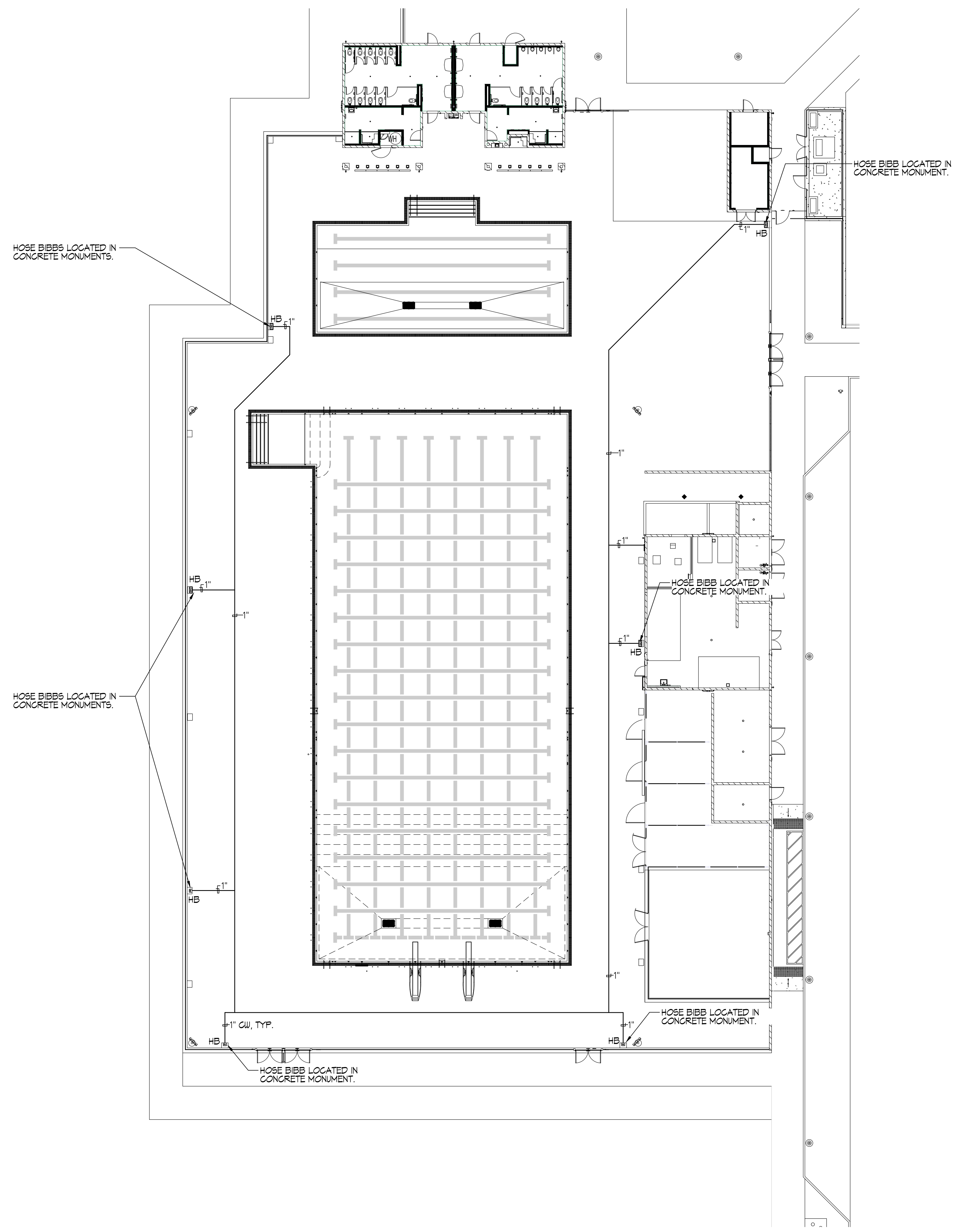


CONSTRUCTION SET

APPROVED
BY THE STATE ARCHITECT
APP: 02-190251, INC.
REVIEWED FOR
SS ID: PLS ID: ACS ID
DATE: 08/28/2023

LEGEND

- HB = HOSE BIBB
- CW = COLD WATER



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DECK HOSE BIBB PLAN
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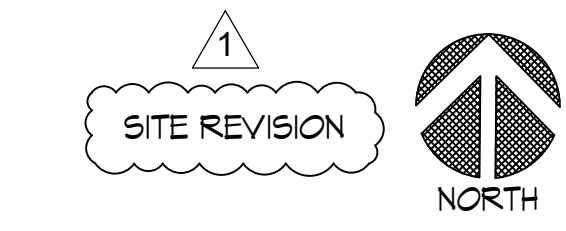
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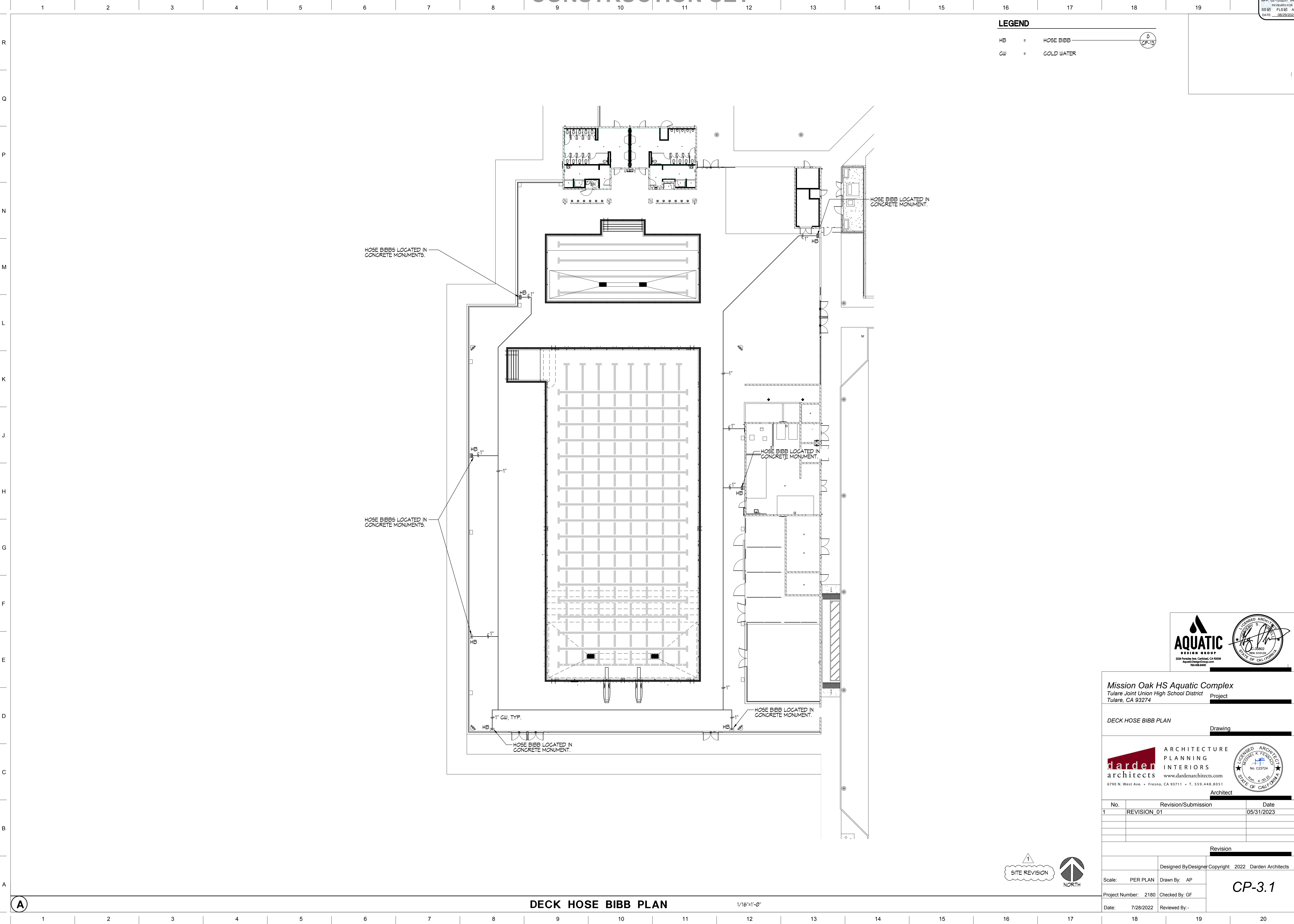
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CP-3.1



DECK HOSE BIBB PLAN 1/16"=1'-0"



TIMING SYSTEM NOTES/EQUIPMENT

NOTE: THE CONTRACTOR SHALL SUPPLY AND INSTALL DECK PLATE BOXES, WALL PLATE BOXES, WALL PLATE JUNCTION BOXES, CONDUIT, WIRING AND ALL TIMING EQUIPMENT AS SHOWN FOR THE 'COLORADO' TIME SYSTEM OR EQUAL. OWNER TO FURNISH SCOREBOARD, CONTRACTOR TO INSTALL PER PLANS AND MANUFACTURER INSTRUCTIONS.

QTY	MODEL	DESCRIPTION
1	GEN1-TMR	INTUITIVE SOFTWARE INTERFACE WITH MODERN WINDOWS USER INTERFACE AND TOUCHSCREEN FRIENDLY. FLEXIBLE USER INTERFACE OPTIONS WITH ETHERNET CONNECTIVITY TO THE TIMER. ADVANCED DIAGNOSTICS, INTELLIGENT BUS SYSTEM, ROBUST SAFEGUARDS. TIMER WILL CONTINUE TO RUN AND FINISH RACE WITHOUT USER INTERFACE. WET-PLUGGABLE TITANIUM CONNECTIONS. INTEGRATED 2.4 GHz WIRELESS TO SCOREBOARDS, FACILITY NETWORK CONNECTIVITY.
1	R-600-302	GEN1 LAPTOP
2	START-FPM-2	CHAMPION SERIES START SYSTEM WITH WIRED MICROPHONE, VOLUME CONTROL ON EACH MICROPHONE INPUT, EXTERNAL CONNECTIONS FOR ADDITIONAL STROBE LIGHTS, LED BATTERY INDICATION LIGHT, AC/DC POWER CAPABILITIES AND AN EXTERNAL 360° STROBE, TRIPOD OR TABLE TOP OPTIONS.
16	SP-6/45	6 WATT INDIVIDUAL BLOCK SPEAKER
2	START-FPM-2	FLAG POLE MOUNTING KIT FOR STARTER
16	SP-6/45	6 WATT INDIVIDUAL BLOCK SPEAKER
16	TP-18G	AQUAGRIP GUTTERING TOUCHPADS (18" X 22") US PATENT 5,702,749
2	CAD-TP#6	TOUCHPAD CADDY FOR GUTTERING TOUCHPADS. HOLDS UP TO TEN TOUCHPADS. SOME ASSEMBLY REQUIRED.
16	4000-0040	SPECIAL SIZE TOUCHPAD BRACKETS
1	TP-GEN1-12	TWELVE-LANE TOUCHPAD SYSTEM FOR THE GEN 1
1	CHSP-1-12	TIMING SYSTEM (SERIAL) INCLUDES AN TWELVE-LANE CABLE HARNESS, ONE PUSHBUTTON PER LANE, ONE SPARE, VACUUM PUMP AND TOUCHPAD METER.
1	R-015-101-0	SCOREBOARD CABLE, 0 METER
1	R-015-115-0	TIMER CABLE, 0 METER
2	R-015-106-0	STARTER CABLE, 0 METER
1	R-015-115-15	TIMER CABLE, 15 METER
4	TDPI-02	START DECK NODE
2	TDPI-0C5	SCOREBOARD DECK NODE
3	R-1004-0544	GEN1 WALL PLATE (15X15)
1	TDPI-K1	KIT-SCOREBOARD BUS HEAD & TAIL NODE INSTALLATION
1	TDPI-K1	KIT-TIMING BUS HEAD & TAIL NODE INSTALLATION
1	WPI-F4	WPI-YDS FIBER & LEGACY CONNECT

QTY	MODEL	DESCRIPTION
1	WITC-2	WIRELESS TABLE TOP CONTROLLER
1	CASE-WITC	CASE FOR THE WIRELESS TABLE TOP CONTROLLER
1	WHG-1	WIRELESS HANDHELD CONTROLLER
1	WA-3	WIRELESS ADAPTER, 2.4 GHz
16	RJPL-24X32	CTS RELAY JUDGING PLATFORM 24"X32" W/ BUILT-IN LED LIGHT FOR START
2	CAD-RJPL-2	CADDY- 24" WIDTH RELAY JUDGING PLATFORMS (HOLDS 10)
1	CP-11	PROVIDE LED MATRIX DISPLAY SCOREBOARD INCLUDING ALL POWER REQUIREMENTS, BONDING AND STRUCTURAL SUPPORTS. THE SCOREBOARD SHALL HAVE FULL COLOR AND VIDEO CAPABILITIES. YES 10mm 320H x 576W SMD, FA, OD DISPLAY ACTIVE AREA: 125.98(H) x 226.77(W)
1	CP-11	PROVIDE SEVEN (7) DEDICATED 20 AMP CIRCUIT TO BE TERMINATED INTO SCOREBOARD LOAD CENTER
1	CP-11	MASTER ON/OFF SCOREBOARD SWITCH WITH PILOT LIGHT W/ LOCKABLE ENCLOSURE
1	CP-11	SCOREBOARD DATA CONNECTION BOX CONNECT TO TIMING/WALL BOX LOCATION W/ 1" PVC CONDUIT.
1200'	R-015-131	TIMING BUS CABLE- 1 CONDUCTOR
1200'	R-015-126	SCOREBOARD BUS CABLE- 4 CONDUCTOR
2	SP-1400	FACE CLOCK - WALL MOUNTED SHOT CLOCK (19 lbs.) SEE ARCHITECTURAL AND STRUCTURAL PLANS FOR ATTACHMENT TO SHADE STRUCTURE
1	DC-1500	FACE CLOCKS

- FUNCTIONS:**
- 4 DIGIT FACE CLOCK
 - 10" RED DIGITS - VIEWABLE UP TO 400 FEET
 - HIGH INTENSITY LED - INDOOR/OUTDOOR
 - "FLASH-PROOF" PROTECTIVE LENS
 - INTERNAL RECHARGEABLE BATTERY
 - INTERNAL HORN
 - FEET AND HANDLE
- FUNCTIONS:**
- SIMPLE PAGE CLOCK
 - CUMULATIVE SPLIT DISPLAY
 - LAP SPLIT DISPLAY
 - LAP COUNTER
 - LAP SPLIT DISPLAY WITH TURN SPEED
 - RELAY EXCHANGES DISPLAY
 - START REACTION DISPLAY
 - HAND TURN SPEED
 - BREAK OUT SPEED DISPLAY
 - BREAK OUT SPEED DISPLAY WITH START REACTION
 - TIME DISPLAY FOR REPETITIVE SETS
 - SINGLE LANE TIMER
 - MID-RACE TIMING DISPLAY
 - WATERPOLO SHOT CLOCK
 - WATERPOLO GAME CLOCK

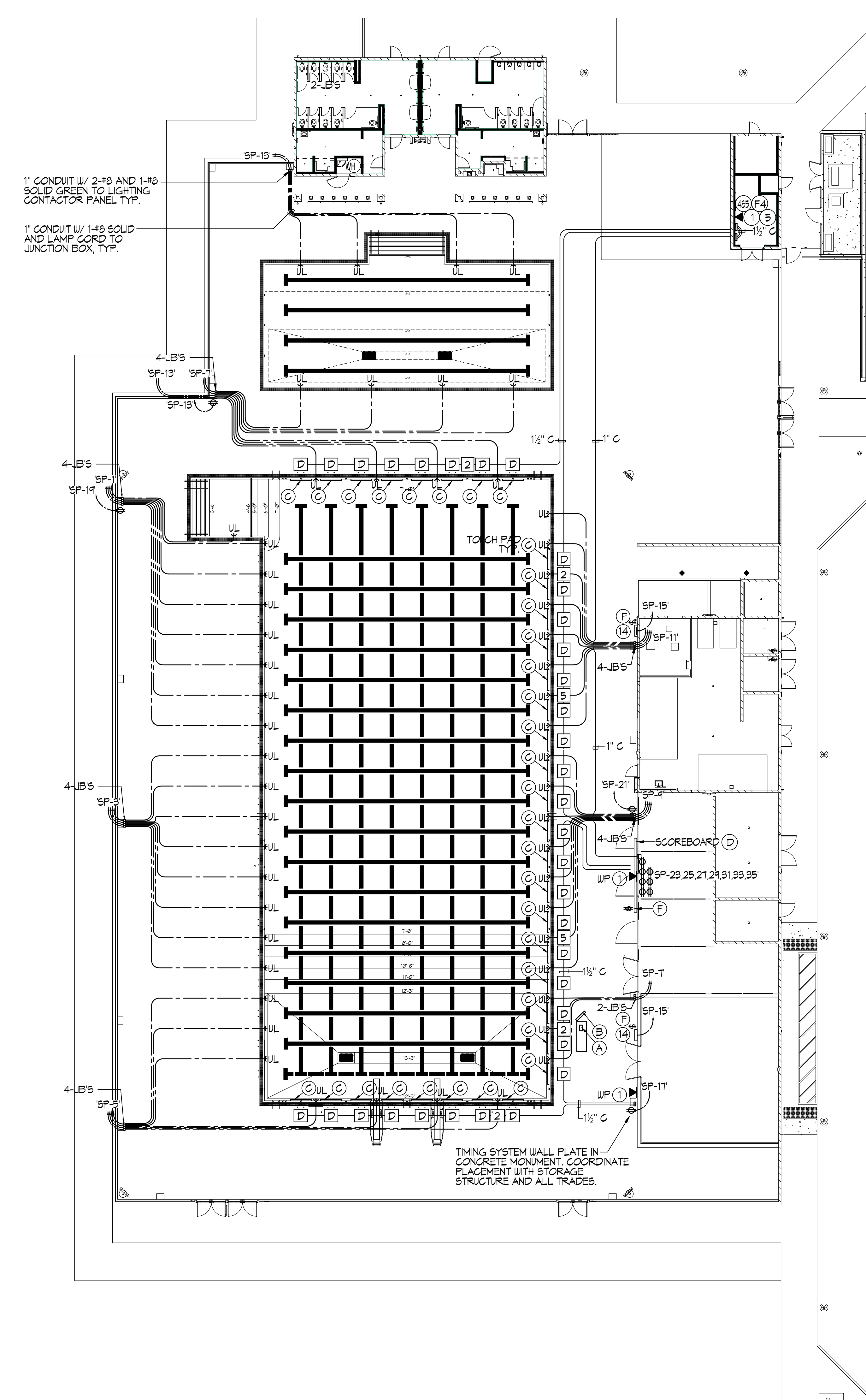
NOTE: MOST FUNCTIONS REQUIRE ADDITIONAL INPUT DEVICES, I.E. TOUCHPAD, RELAY JUDGING PLATFORM, START SYSTEM, PUSHBUTTON

KEY NOTES

DESCRIPTION	QUANTITY	UNIT
ETHERNET DROP-BY OTHERS	3	COUNT
WALL PLATE FIBER CONNECTION	1	COUNT
WALL PLATE RS-485 CONNECTION	1	COUNT
FACE CLOCK	2	COUNT
WALL PLATE TIMER NODE	3	COUNT
TIMING DECK NODE (4"X4"X6" PVC BOX)	34	COUNT
START DECK NODE (4"X4"X6" PVC BOX)	4	COUNT
SCOREBOARD DECK NODE (4"X4"X6" PVC BOX)	2	COUNT

LEGEND

JB	=	JUNCTION BOX	2	CP-12
WP	=	WALL PLATE	3	CP-12
RP	=	RACING PLATFORM	5	CP-10
SB	=	SCOREBOARD	1	CP-11
UL	=	UNDERWATER LIGHT	4	CP-12



1" CONDUIT W/ 2#8 AND 1#8 SOLID GREEN TO LIGHTING CONTACTOR PANEL TYP.

1" CONDUIT W/ 1#8 SOLID AND LAMP CORD TO JUNCTION BOX, TYP.

TIMING SYSTEM WALL PLATE IN CONCRETE MONUMENT. COORDINATE PLACEMENT WITH STORAGE STRUCTURE AND ALL TRADES.

UNDERWATER LIGHTING AND TIMING PLAN

1/16"=1'-0"

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UNDERWATER LIGHTING AND TIMING PLAN
Drawing

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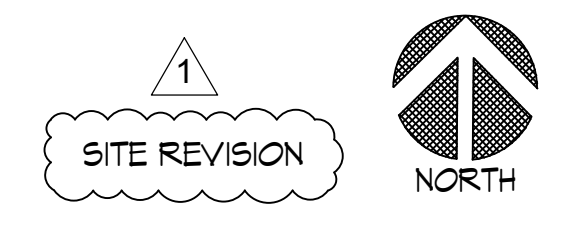
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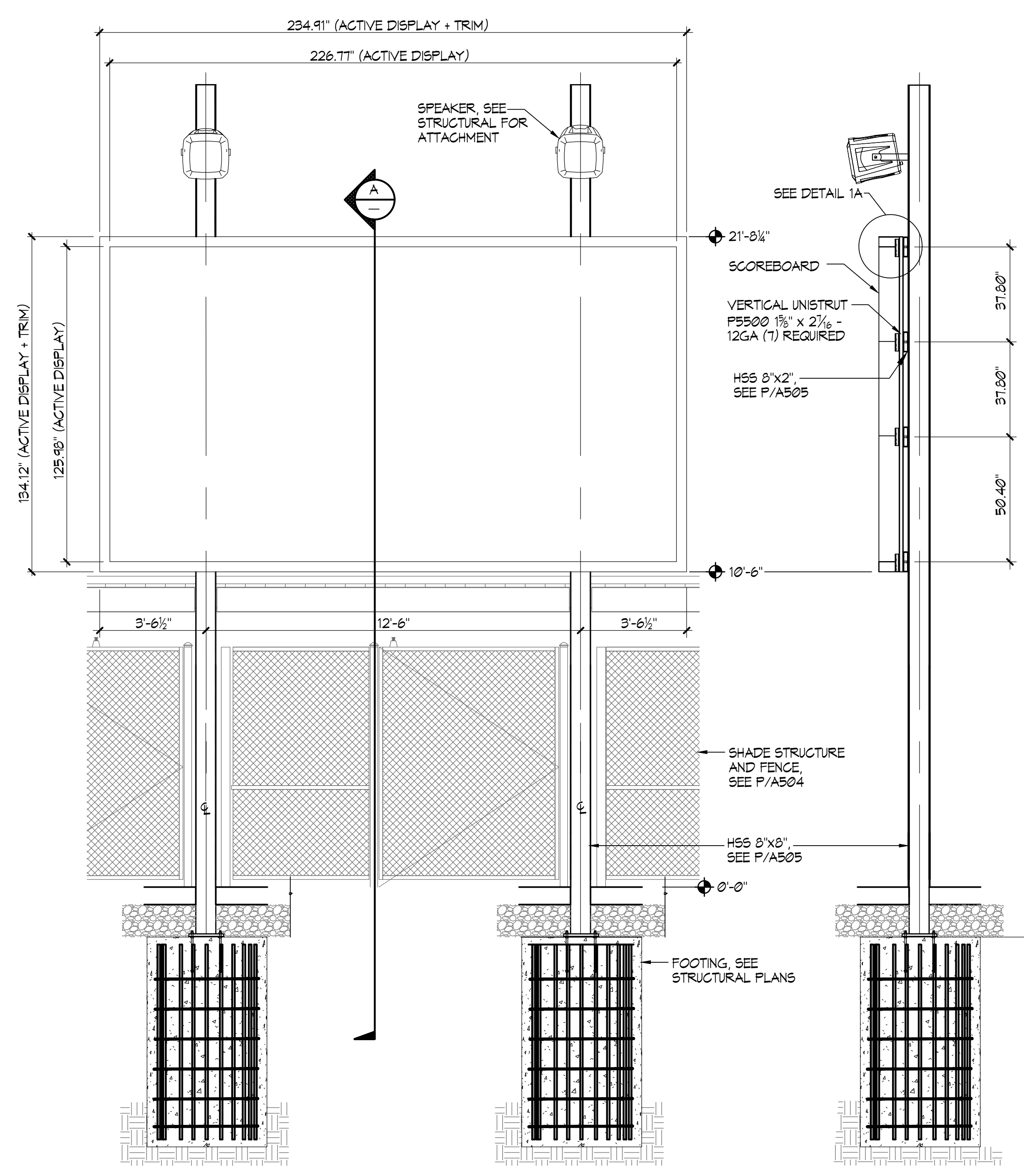
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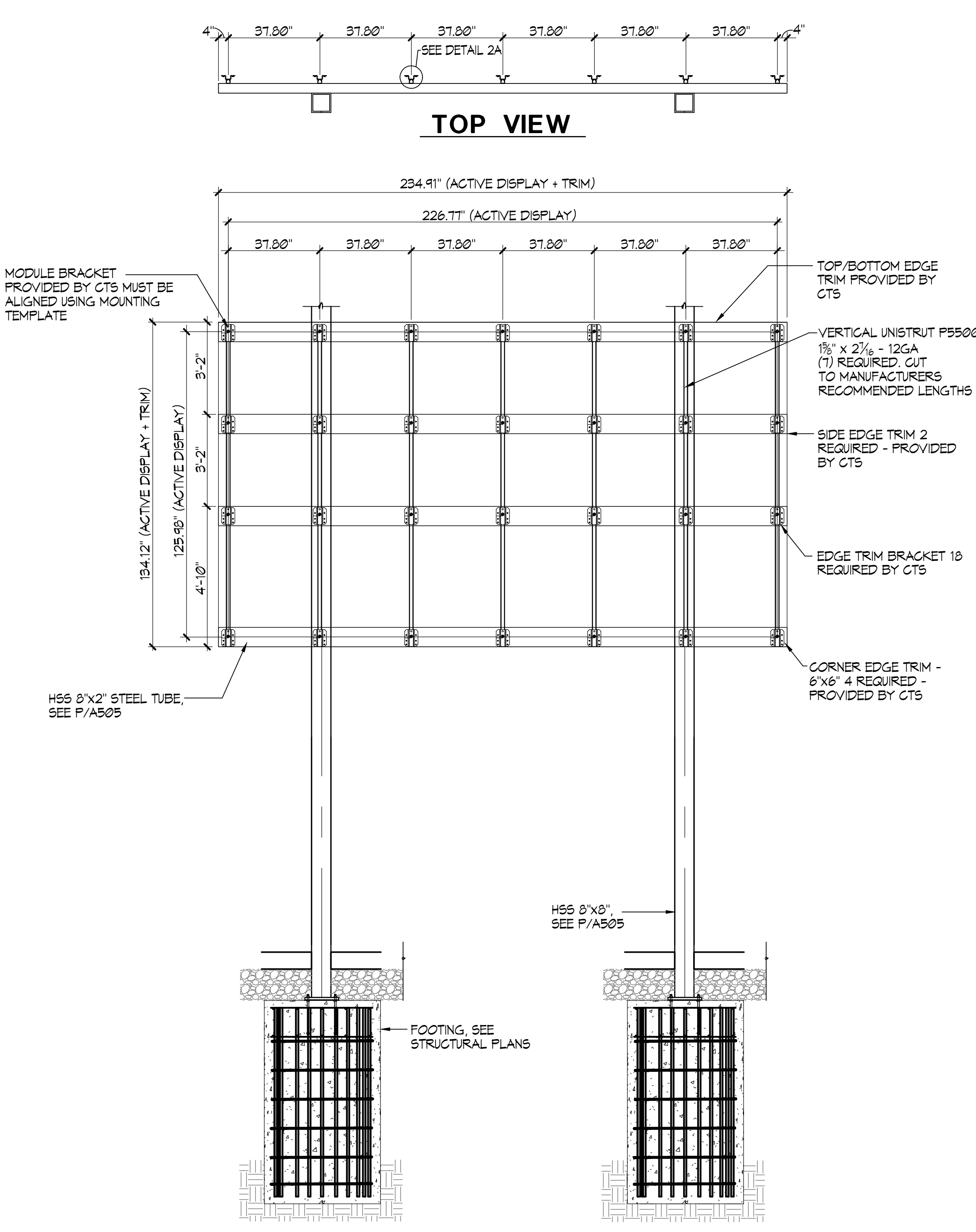


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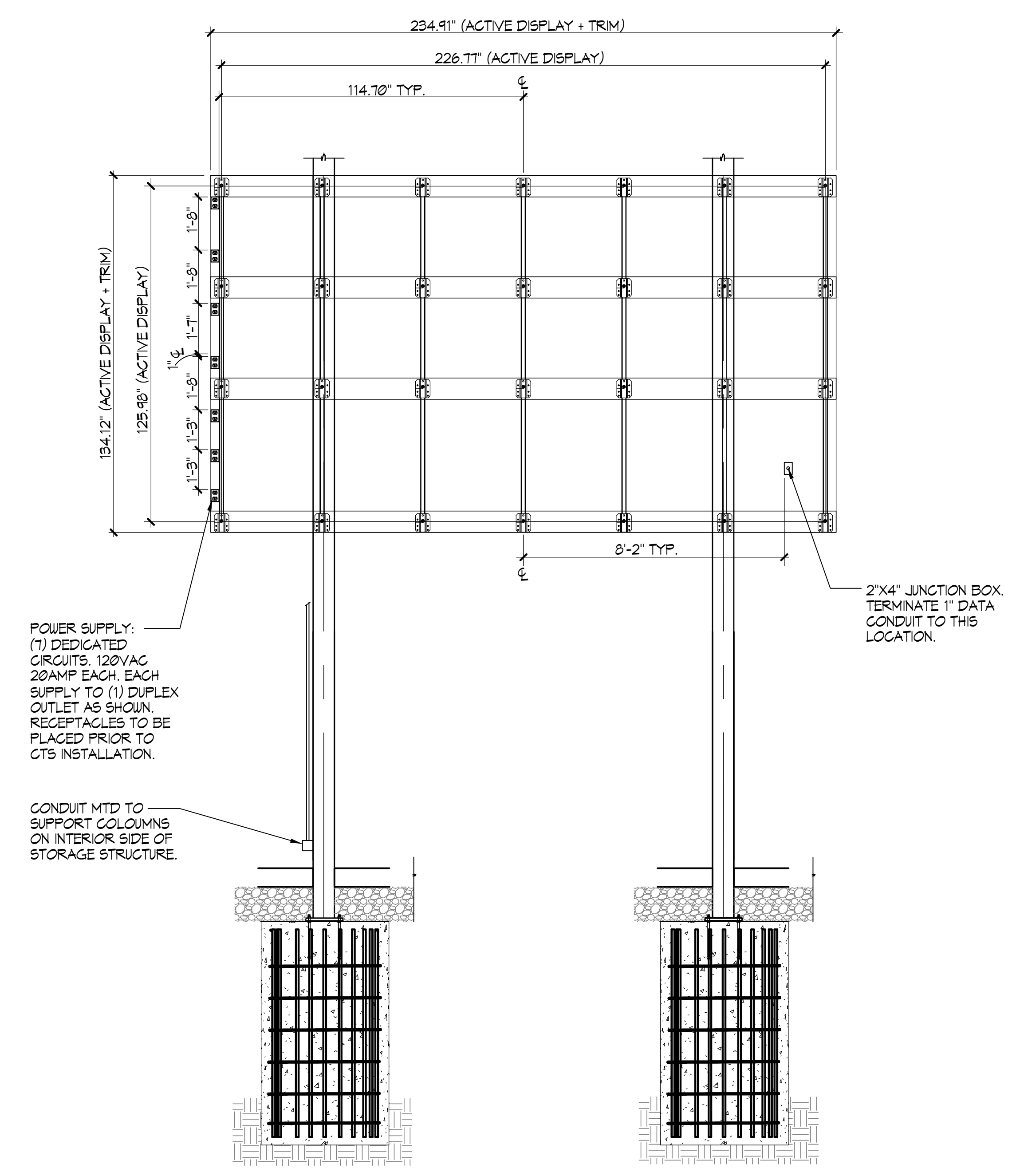


FRONT VIEW
 3/8"=1'-0"

SECTION A
 3/8"=1'-0"



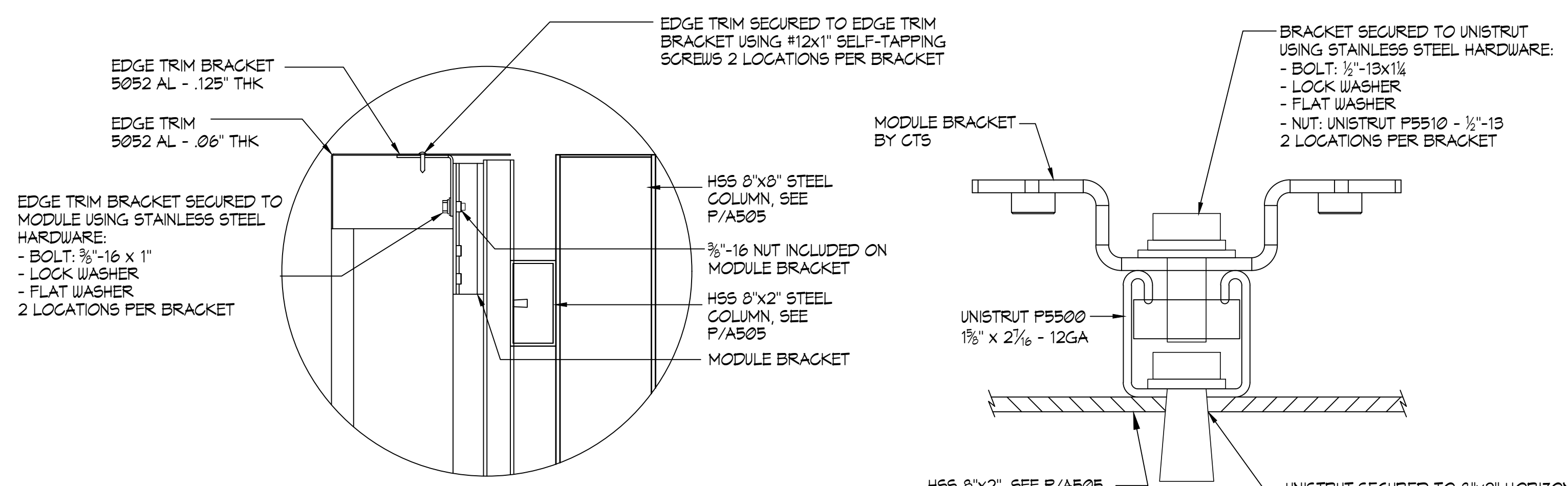
REAR VIEW
 3/8"=1'-0"



OUTLET LAYOUT
 3/8"=1'-0"

- EACH 2-PLEX RECEPTACLE SHALL BE 120V MIN. 20 AMP
- RECEPTACLES TO BE PLACED BEFORE CTS INSTALLATION.
- SINGLE GANG WALL BOX WITH BLANK PLATE FOR DATA CABLE, ONE PER DISPLAY.
- EACH CIRCUIT SHALL BE DEDICATED 120V, MIN. 20 AMPS. CALIFORNIA ELECTRIC CODE REQUIRES A MEANS OF DISCONNECTING SIGNS AT THE LOCATION OF THE SIGN. SCOREBOARD SHALL BE WIRED IN ACCORDANCE WITH NATIONAL ELECTRIC CODE ART. 600-6.
- IT IS EXTREMELY IMPORTANT THAT THE CIRCUITS USED TO POWER THE SCOREBOARD NOT BE SHARED WITH OTHER DEVICES. THE SCOREBOARD IS SENSITIVE TO "NOISE" ON AC POWER LINES.
- DISPLAY SHALL BE EARTH GROUNDED. NUMBER AND LENGTHS OF RODS SHALL MEET CALIFORNIA ELECTRIC CODE.
- DISPLAY MAXIMUM POWER CONSUMPTION: 6,326 WATTS

- SPECIFICATIONS:**
- GENERAL:**
- ALL STEEL CONSTRUCTION
 - FINISH TO BE BLACK POWDER COAT / ENAMEL PAINT
 - DIMENSIONS ARE SUBJECT TO CHANGE DUE TO DETAILED DESIGN CONSIDERATIONS. ONLY APPROVED SHOP DRAWINGS SHALL BE USED FOR CONSTRUCTION.
 - DISPLAY MUST BE EARTH GROUNDED. NUMBER AND LENGTHS OF RODS SHALL MEET CALIFORNIA ELECTRIC CODE.
 - DESIGN AND CONSTRUCTION OF FRAME MOUNTING STRUCTURE IS TO BE DONE BY OTHERS AND MUST MEET ALL LOCAL AND NATIONAL BUILDING CODES.
- SYSTEM WEIGHTS:**
- DISPLAY - APPROXIMATELY 2100 LBS.
 - FRAME AND EDGE TRIM - APPROXIMATELY 300 LBS.
 - DISPLAY MOUNTING CHANNELS SHALL BE ALIGNED USING TEMPLATE.



1A DETAIL
 NO SCALE

2A DETAIL
 NO SCALE

SCOREBOARD DETAILS

AS NOTED



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DETAILS Drawing

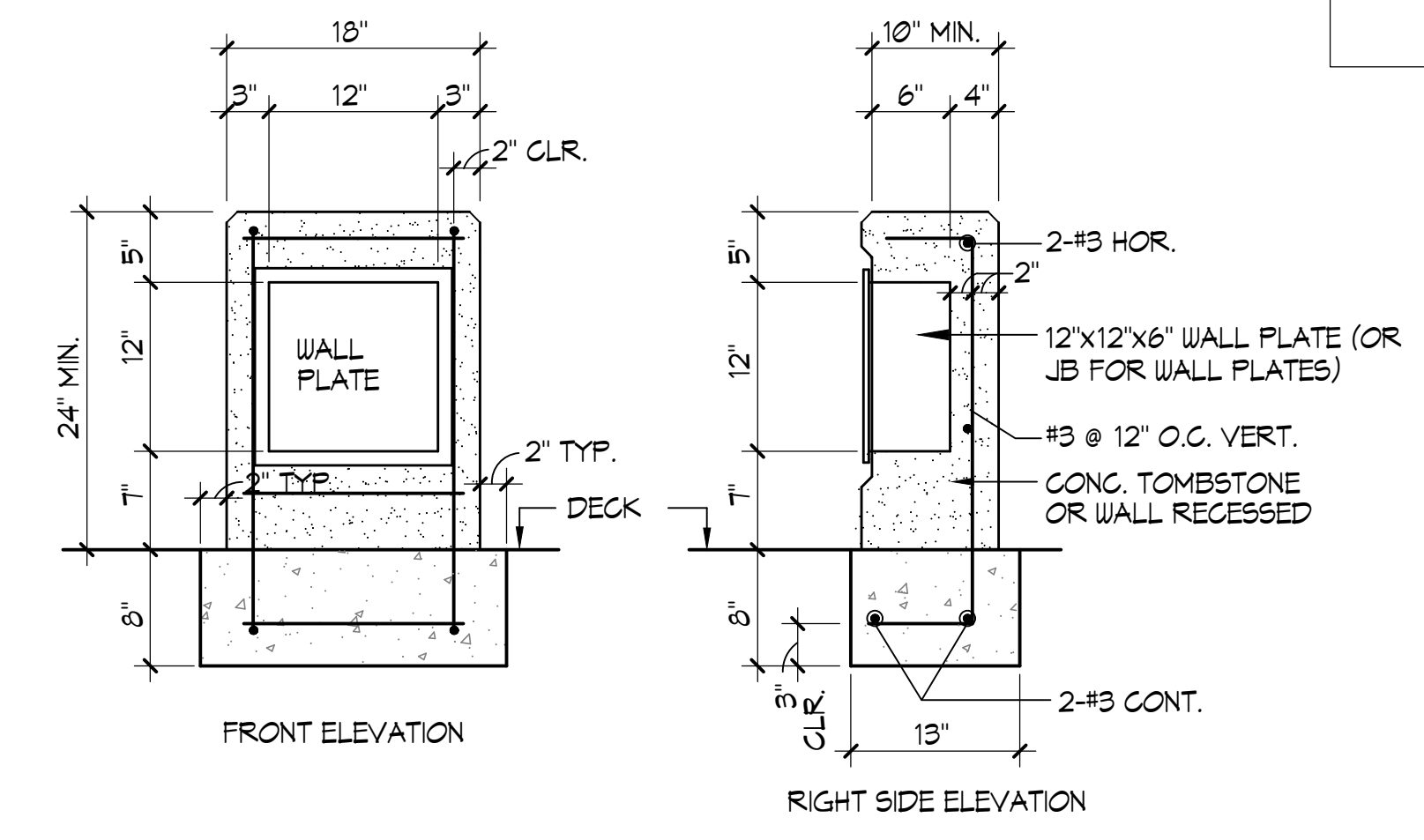
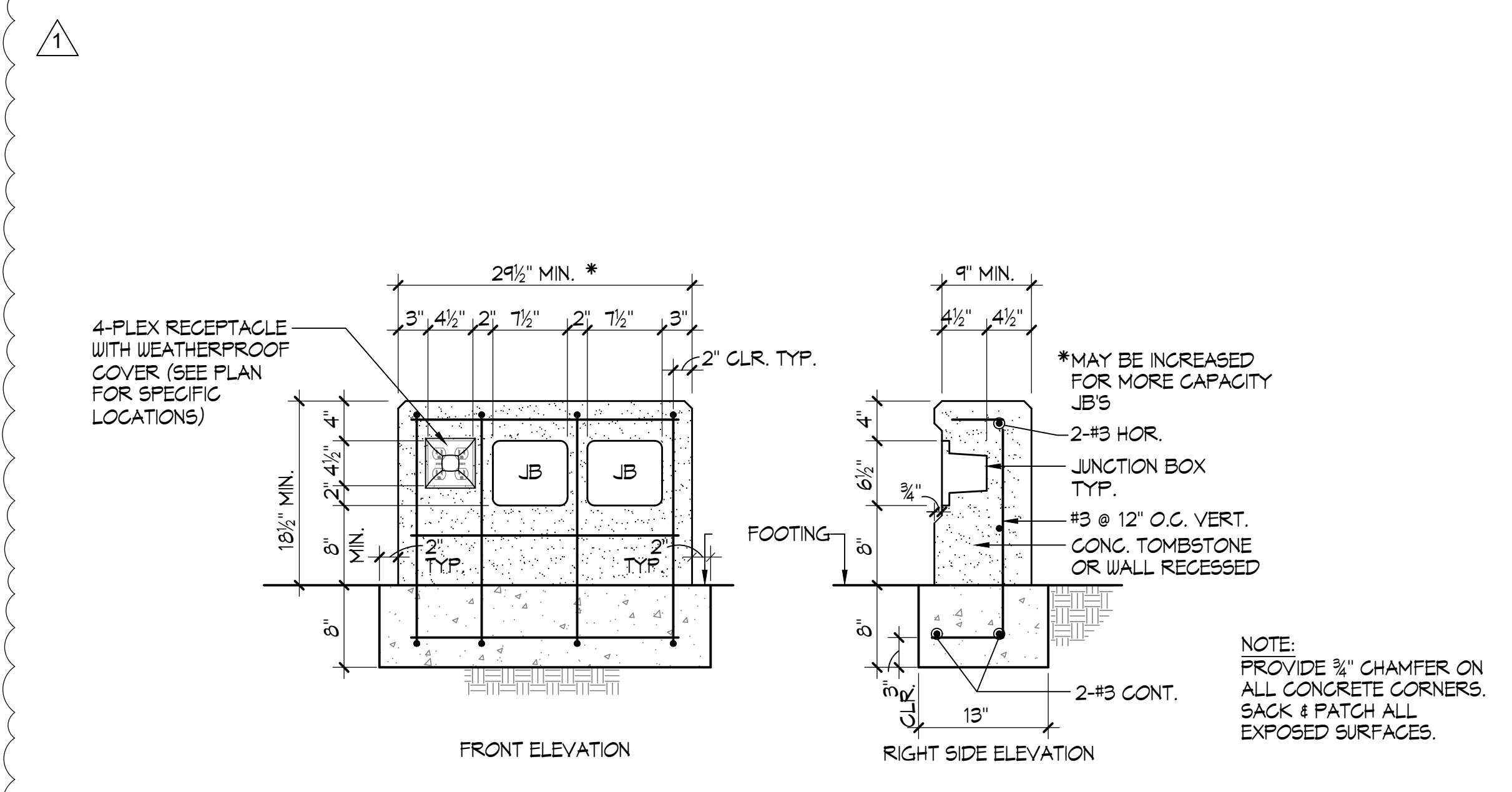
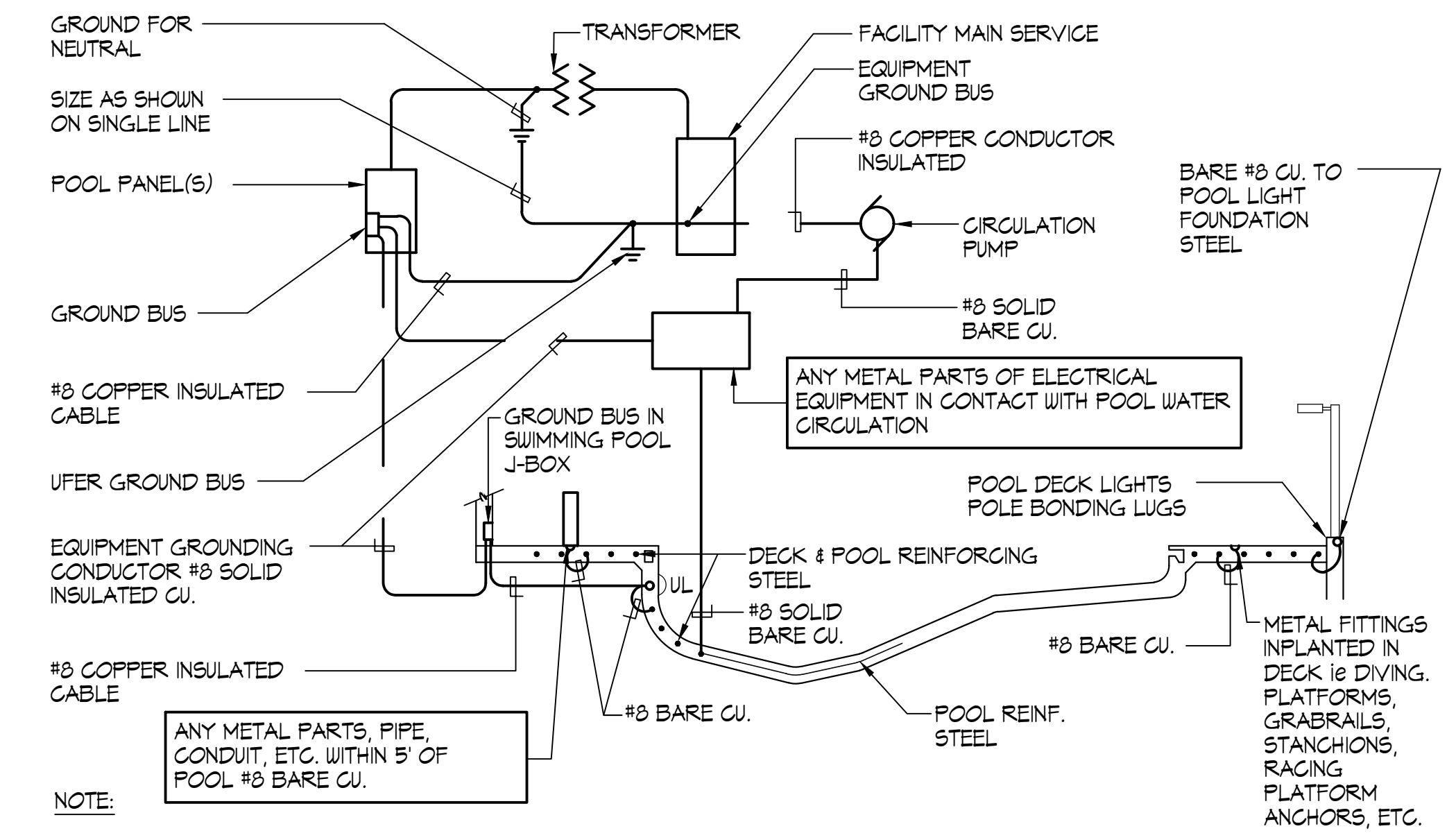
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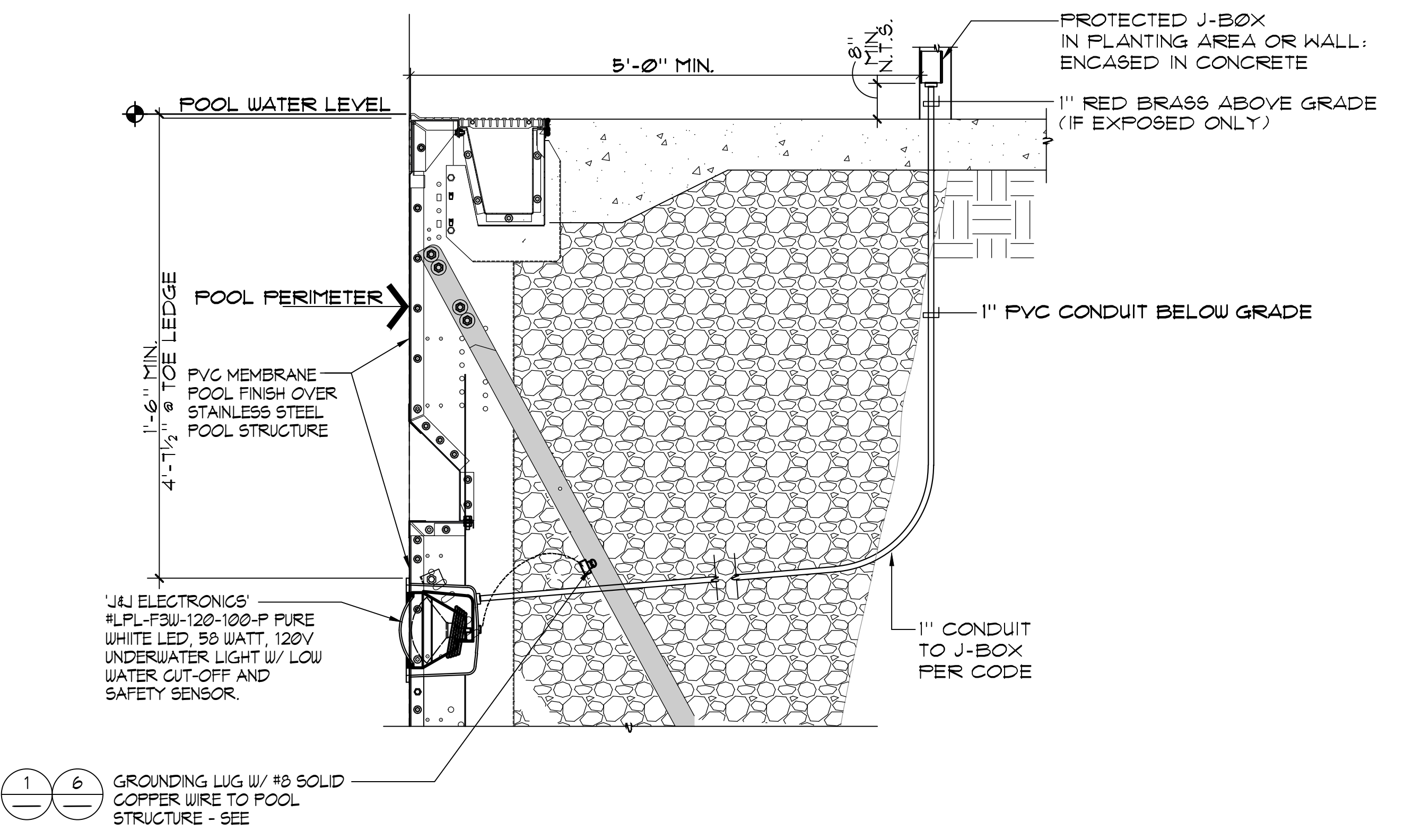
CP-11



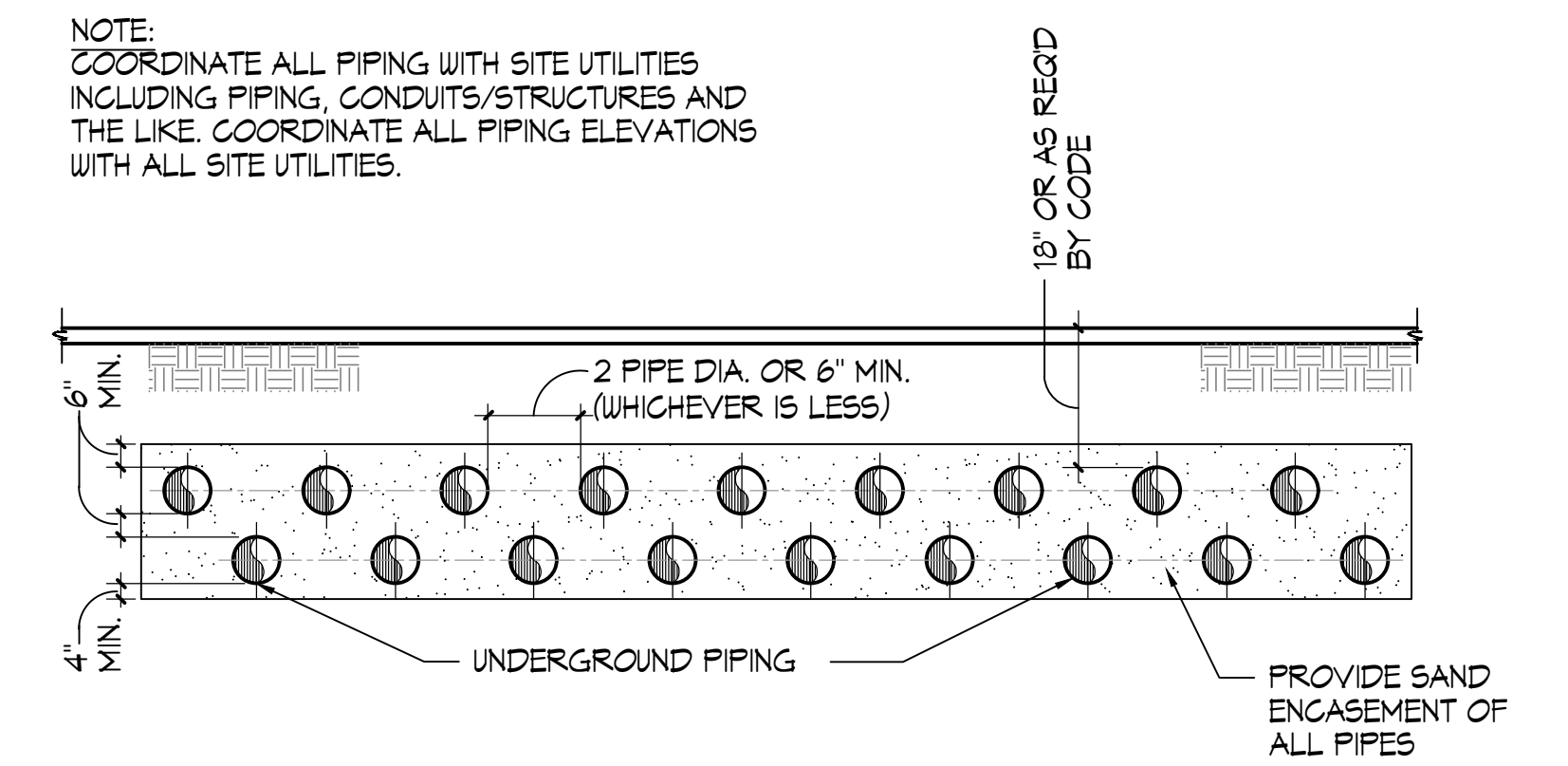
1 TYPICAL POOL BONDING AND GROUND DETAIL NO SCALE

2 UNDERWATER LIGHT JUNCTION BOX SURROUND DETAIL 1"=1'-0"

3 TIMING SYSTEM WALL PLATE CONCRETE SURROUND DETAIL 1"=1'-0"

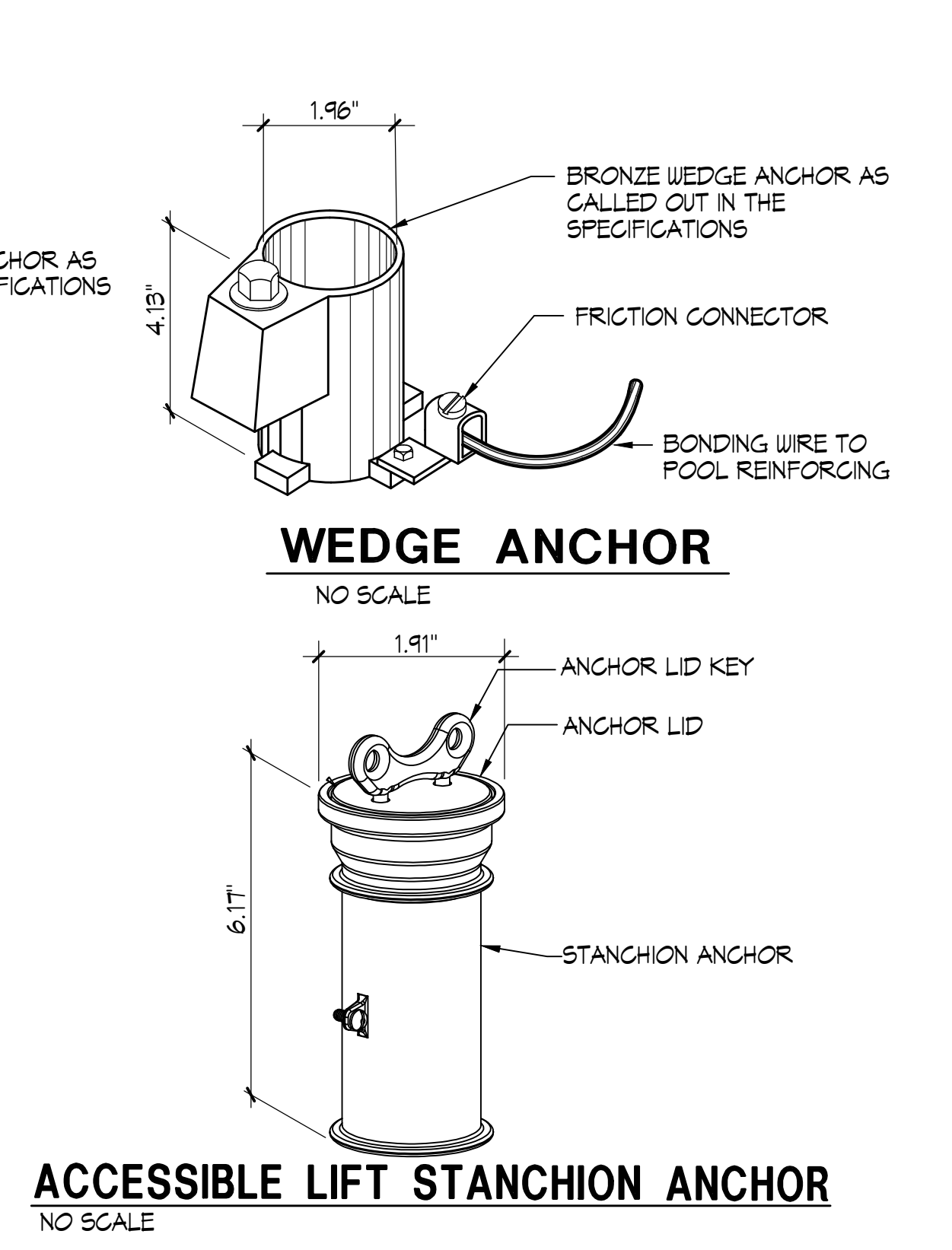
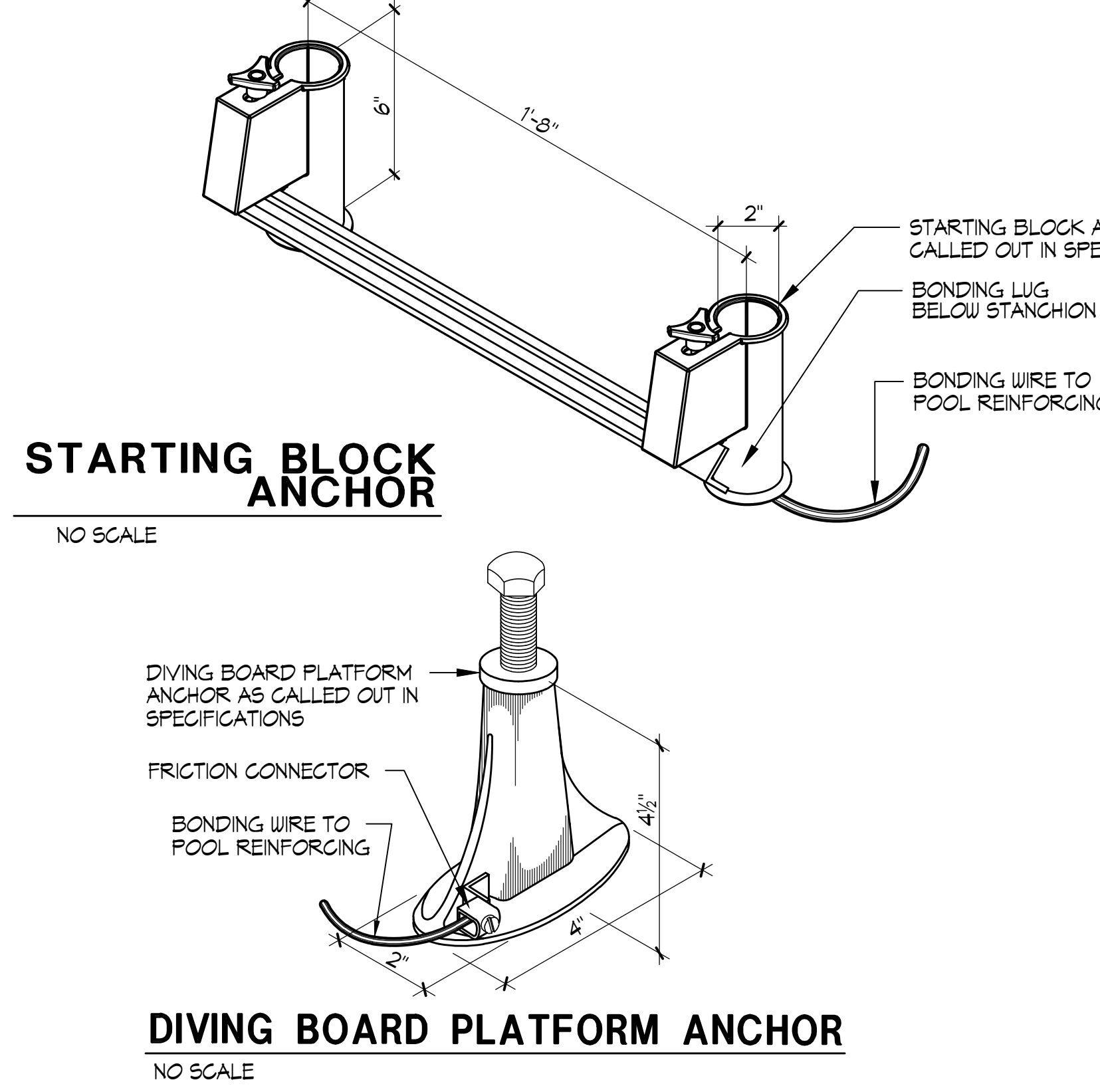
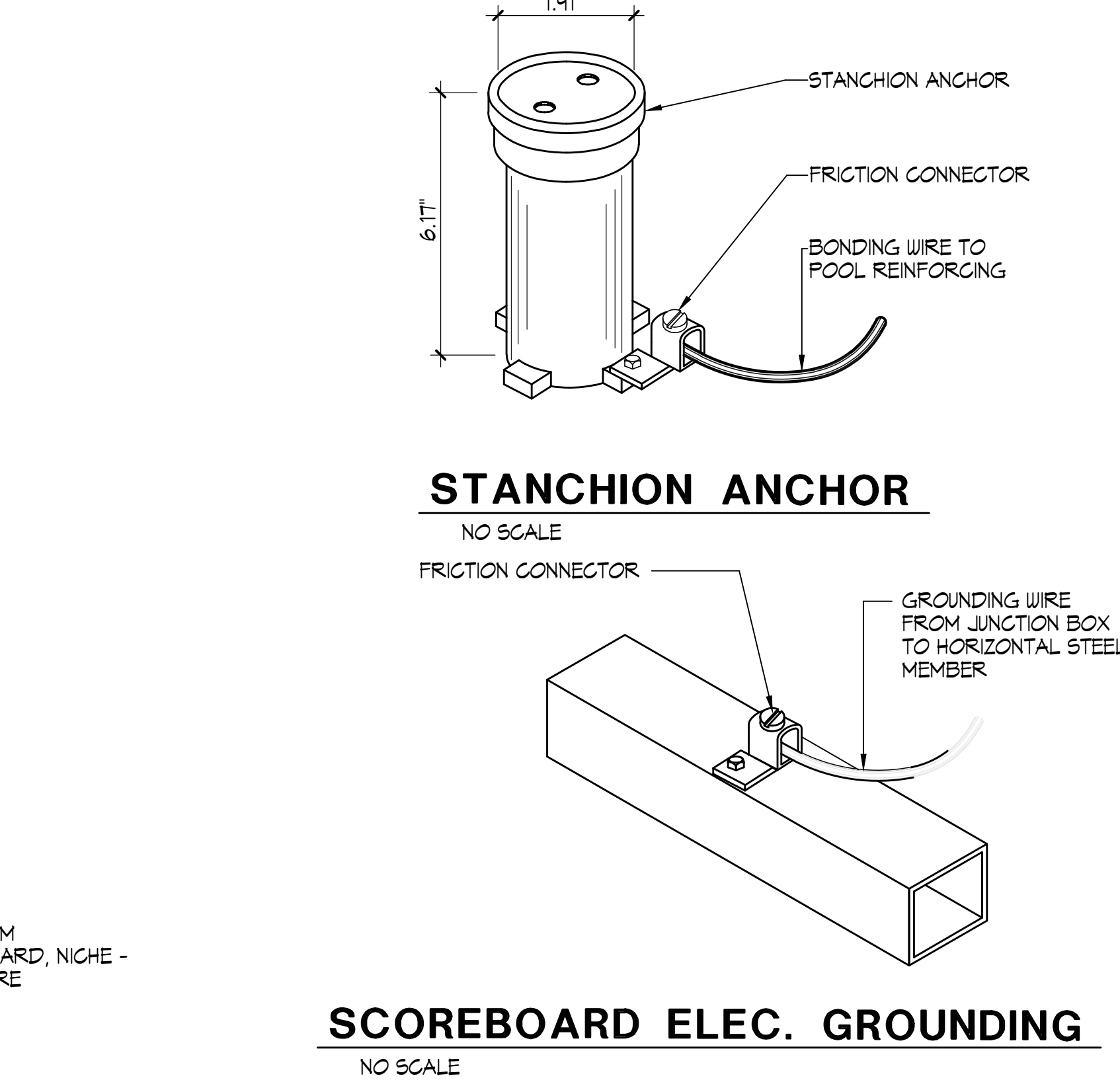
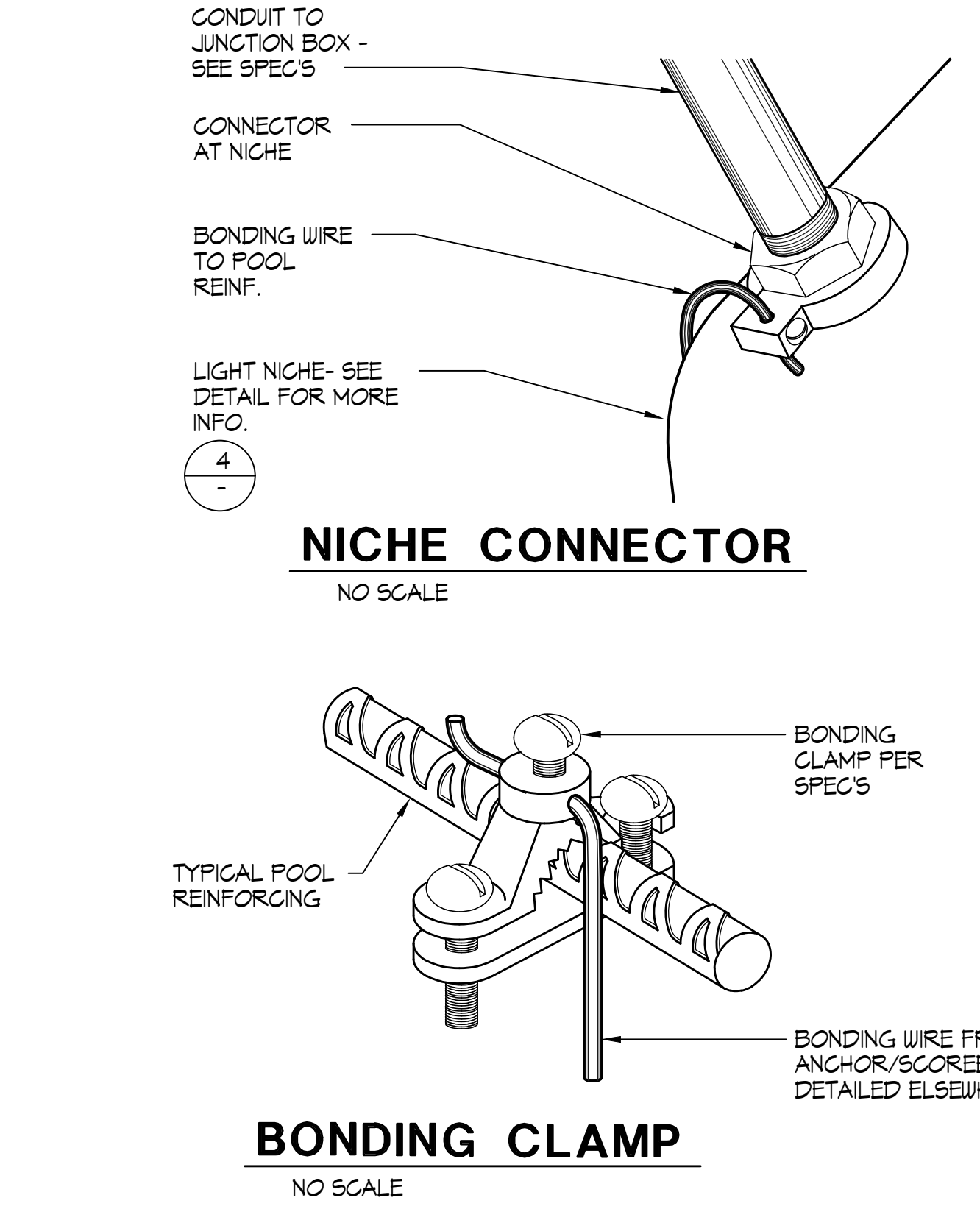


- UNDERWATER LIGHT NOTES:**
- ALL CONDUITS IN POOL LIGHTING SYSTEM TO BE A MINIMUM OF 1".
 - CONDUITS TO POOL J-BOXES SHALL BE MINIMUM 2-#8 & #8 (SEE UNDERWATER LIGHT PLAN) SOLID UNBROKEN TO MAIN PANEL ISOLATED GROUND BUSS. THIS BUSS IS TO BE CONNECTED WITH SOLID INSULATED #8 COPPER WIRE TO UFER & COLDWATER GROUNDING LUG ON GROUNDING BUSS. UPSIZE CONDUITS AS REQUIRED FOR HOMERUNS EXCEEDING 100'.
 - ALL BRASS POOL J-BOXES SHALL BE FLUSH MOUNTED IN WALLS. IF FLUSH MOUNTING IS NOT POSSIBLE THEN MOUNTING SHALL BE SURFACE MOUNTED AND CONCRETE ENCASED.
 - CONDUITS WHERE ALLOWED BY CODE SHALL BE P.V.C. (POLYVINYL CHLORIDE) FROM WET NICHES TO BRASS J-BOXES TO LIGHTING PANEL. ALL CONDUITS IN FREE AIR SPACE AND ALL RISERS SHALL BE RED BRASS TYPICAL. PVC CONDUITS SHALL BE SOLVENT WELDED WITH PURPLE PRIMER AND GRAY HEAVY BODIED GLUE.
 - LIGHTING CONTACTORS SHALL BE "ALLEN-BRADLEY" #500 L, OR EQUAL MOUNTED IN A NEMA 12 HINGED COVER - LOCKABLE ENCLOSURE. CONTACTORS TO BE SWITCHED BY MOMENTARY SWITCH EQUAL TO "HUBBELL" #1851 MOUNTED IN J-BOX IN MECHANICAL EQUIPMENT ROOM. REFER TO ELECTRICAL PLANS FOR LOCATION OF OWNER COORDINATED REMOTE UNDERWATER LIGHT SWITCH.
 - BRASS POOL J-BOXES SHALL BE "HYDREL" #1119, 1/2" HUBS OR EQUAL. (NO DIE CAST BOXES).
 - STRINGS SHALL BE PULLED IN ALL CONDUITS PRIOR TO PLACEMENT OF CONCRETE.
 - LOCAL COUNTY OR CITY CODES SHALL BE ADHERED TO. SPECIFICATIONS TO BE IN ACCORDANCE WITH SECTION 600 OF LATEST N.E.C. BOOK.
 - PROVIDE PULL BOXES AS MAY BE REQUIRED FOR RUNS EXCEEDING 150 FT. OR DUE TO CHANGES IN GRADE OR DIRECTION.
 - CONTRACTOR SHALL TEST UNDERWATER POOL LIGHT GFC CIRCUITS AND PROVIDE LETTER TO OWNER/DSA UPON SUCCESSFUL TEST.
 - SEAL CONDUIT OPENING IN LIGHT NICHE WITH SILICON CAULKING AFTER LIGHT IS INSTALLED.
 - PRIOR TO LIGHT INSTALLATION, PROVIDE MINIMUM 10 PSI PRESSURE TEST ON ALL POOL LIGHT CONDUITS FOR FOUR (4) HOURS OBSERVED BY INSPECTOR OF RECORD. MAINTAIN PRESSURE UNTIL ALL DECKS ARE POURED.



4 UNDERWATER LIGHT 1"=1'-0"

5 STACKED UNDERGROUND PIPING NO SCALE



6 BONDING DETAILS NO SCALE

7 BONDING DETAILS NO SCALE

8 BONDING DETAILS NO SCALE



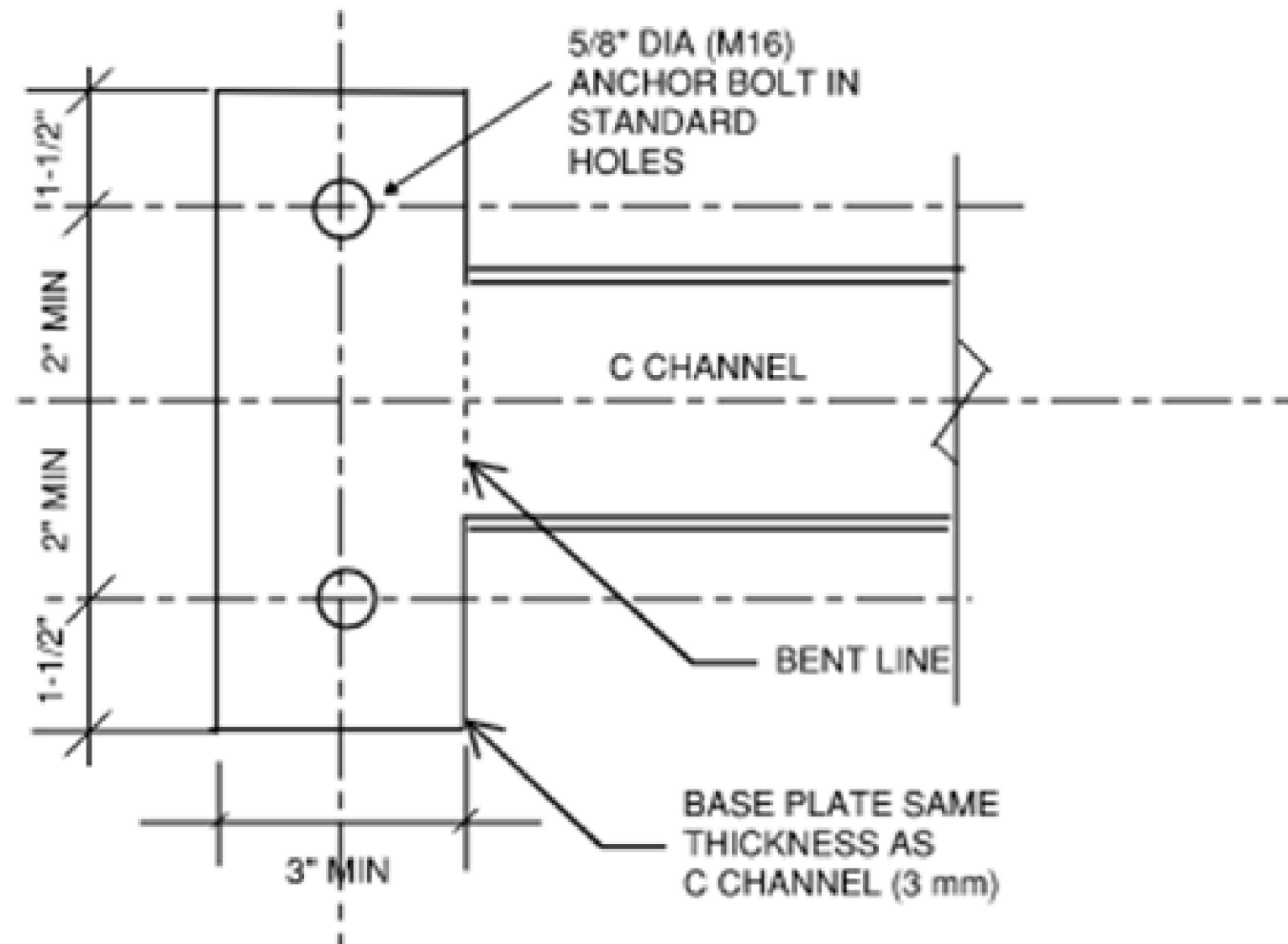
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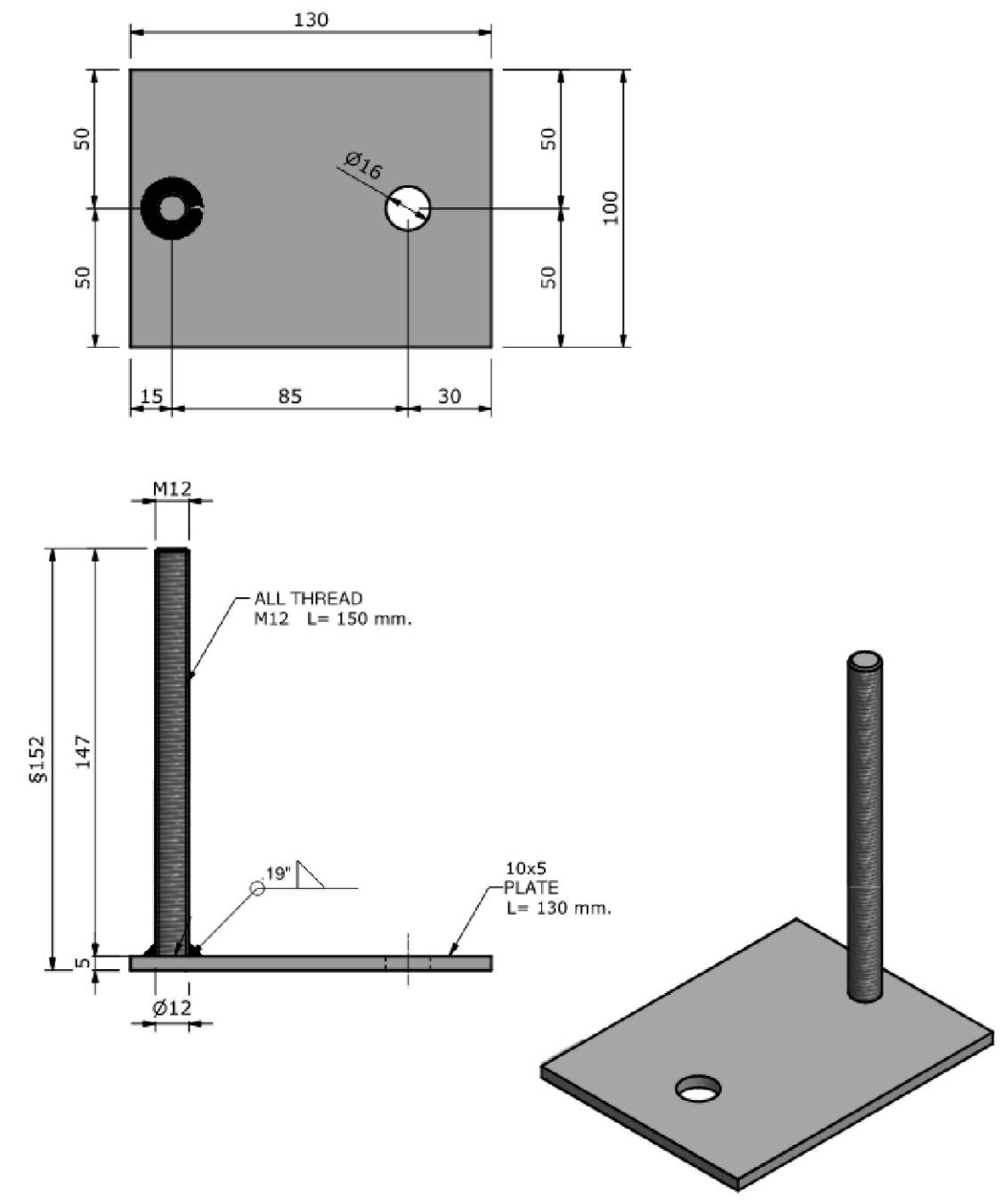
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1	REVISION_01	05/31/2023
Revision		
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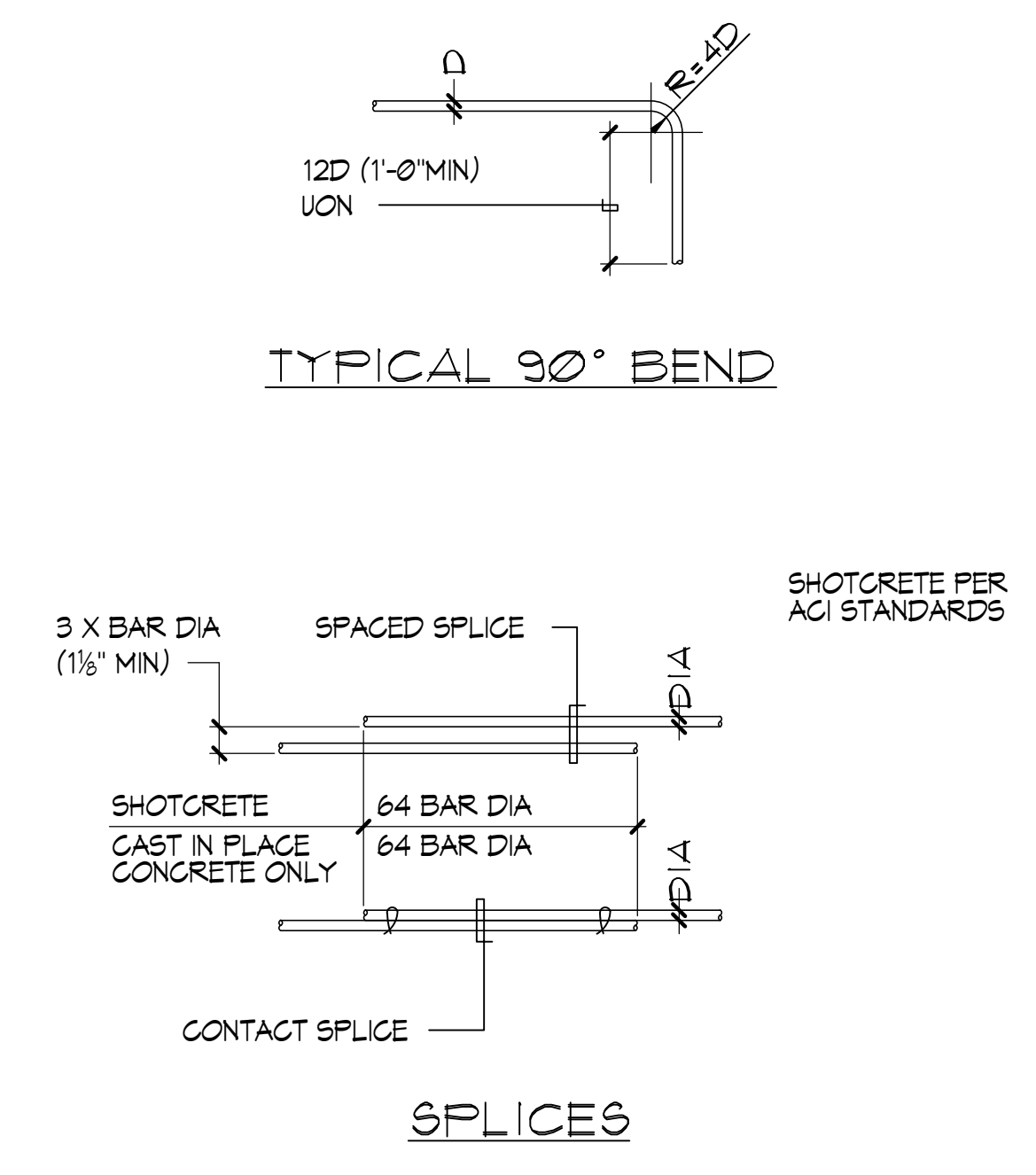
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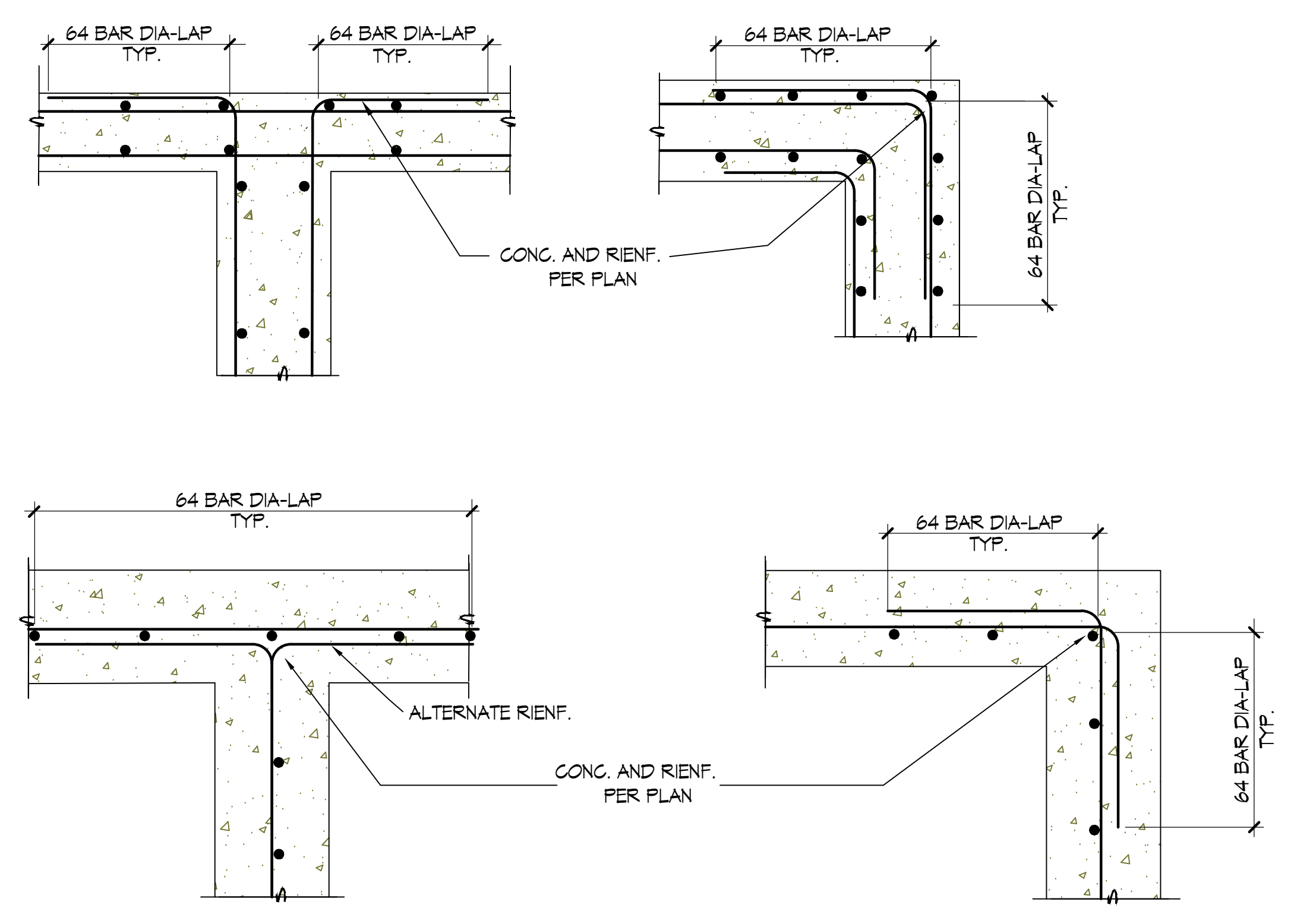
1 DOUBLE ANCHOR BOLT LAYOUT NO SCALE



2 OFFSET PLATE NO SCALE



3 REINFORCEMENT DETAILS NO SCALE



4 REBAR PLACEMENT AT CORNERS



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DETAILS Drawing

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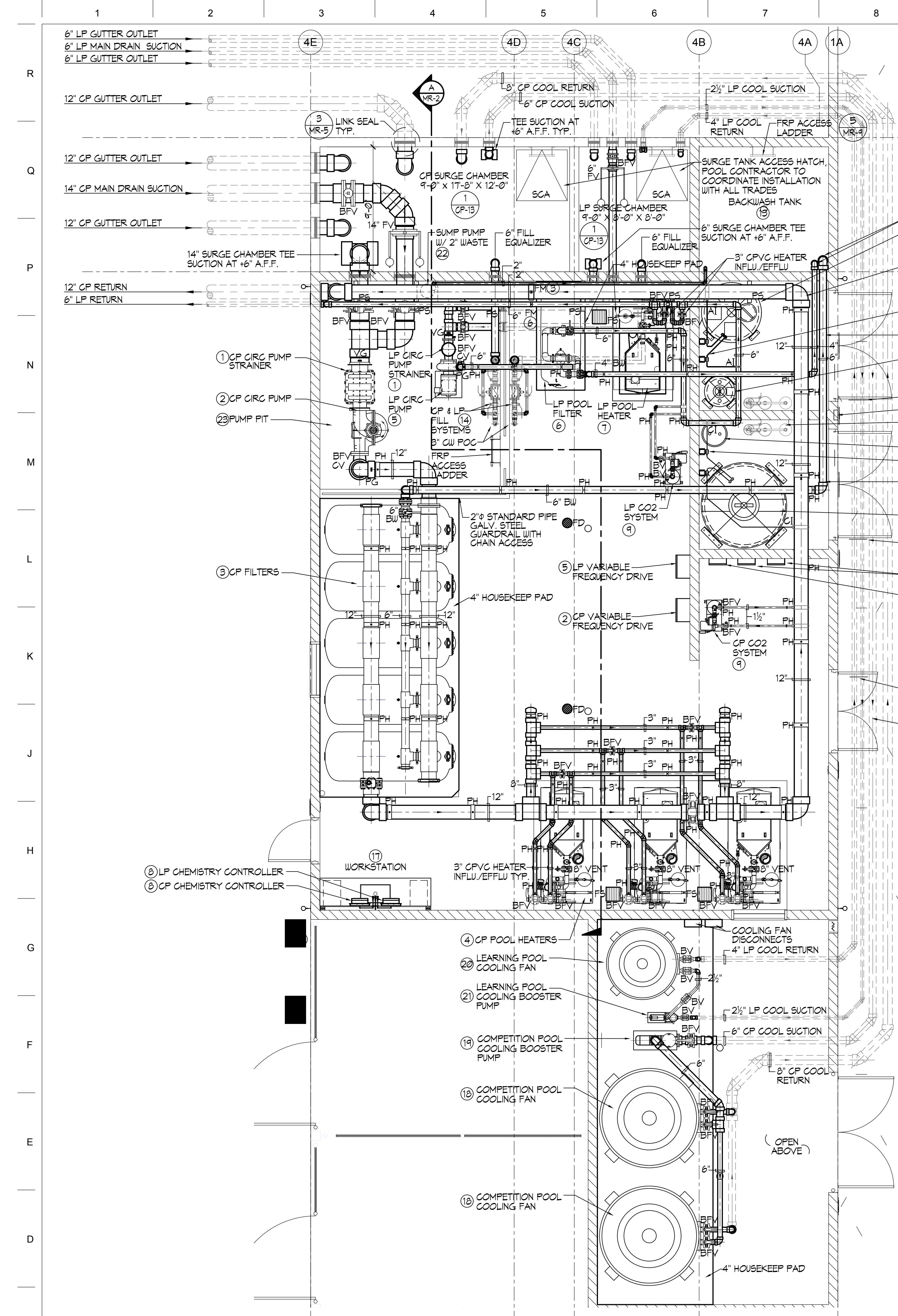
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EQUIPMENT LIST

- 1 COMPETITION POOL STRAINER, EQVOQA PRO-STRAINER...
2 COMPETITION POOL CIRCULATION PUMP, PACO COUNTER-CLOCKWISE...
3 COMPETITION POOL FILTER, EKO2 SYSTEMS GEN 2...
4 COMPETITION POOL HEATER, INDIRECT FIRED POOL HEATING PACKAGE SYSTEM...
5 LEARNING POOL CIRCULATION PUMP, PACO #30121...
6 LEARNING POOL FILTER, EKO2 SYSTEMS GEN 2...
7 LEARNING POOL HEATER, INDIRECT FIRED POOL HEATING PACKAGE SYSTEM...
8 WATER CHEMISTRY CONTROLLER(S)...
9 CARBON DIOXIDE STORAGE FEED SYSTEM...
10 CHLORINE STORAGE/FEED SYSTEM, CHEM-TAINER...
11 ACID STORAGE/FEED SYSTEM, CHEM-TAINER...
12 ELECTRICAL: PROVIDE ALL ELECTRICAL WIRING...
13 BACKWASH TANK, 4'-4" X 8'-0" X 8'-4" HIGH CONCRETE TANK...
14 COMPETITION POOL & THERAPY POOL FILL SYSTEM(S)...
15 EYEWASH/SHOWER, HAWS MODEL #830W/C...
16 LIGHTING CONTROL PANEL: REFER TO MCC PANEL...
17 LEARNING POOL COOLING FAN: GLACIER POOLS GPC230...
18 LEARNING POOL COOLING FAN: GLACIER POOLS GPC230...
19 LEARNING POOL COOLING FAN: GLACIER POOLS GPC230...
20 LEARNING POOL COOLING FAN: GLACIER POOLS GPC230...
21 LEARNING POOL COOLING FAN: GLACIER POOLS GPC230...
22 SUMP PUMP, HYDROMATIC 3W SERIES...
23 PUMP PIT, 13'-0" X 15'-0" X 8'-0" DEEP...

LEGEND

- FM = FLOWMETER
CI = CHLORINE INJECTION
AI = ACID INJECTION
PG/VG = VACUUM / PRESSURE GAUGE
PH = PIPE HANGER
PS = PIPE SUPPORT
SCA = SURGE CHAMBER ACCESS
BV = BALL VALVE
BFV = BUTTERFLY VALVE
CV = CHECK VALVE
BW = BACKWASH
FS = FLOOR SINK
FD = FLOOR DRAIN
IE = INVERT ELEVATION
CP = COMPETITION POOL
LP = LEARNING POOL

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.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED...
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL...

THREE PHASE MOTOR LOADS AT 460V

Table with 2 columns: Equipment Name, Amps. Includes Competition Pool Circulation Pump (65 AMPS) and Learning Pool Circulation Pump (11 AMPS).

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25, 1617A.1.26.

MECHANICAL ANCHORAGE

- 1. EXPANSION OR WEDGE ANCHORS INTO CONCRETE. HILTI KB TZ 2 (ICC ESR-4266) TO BE INSTALLED IN ACCORDANCE WITH ICC REPORT AND MANUFACTURER'S RECOMMENDATIONS.
2. EXPANSION OR WEDGE ANCHORS INTO MASONRY. HILTI KB TZ 2 (ICC ESR-4561) TO BE INSTALLED IN ACCORDANCE WITH ICC REPORT AND MANUFACTURER'S RECOMMENDATIONS.
3. UNDERCUT ANCHORS INTO CONCRETE. HILTI HDA (ICC ESR-1546) TO BE INSTALLED IN ACCORDANCE WITH ICC REPORT AND MANUFACTURER'S RECOMMENDATIONS.
4. HEAVY DUTY SLEEVE ANCHORS INTO CONCRETE. HILTI HSL-3 (ICC ESR-1545) TO BE INSTALLED IN ACCORDANCE WITH ICC REPORT AND MANUFACTURER'S RECOMMENDATIONS.
5. FASTENERS SHALL BE STAINLESS STEEL.
6. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON AND SHIFT THE HOLE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM OF 2 ANCHOR DIAMETERS OR 1 INCH, WHICHEVER IS LARGER, OF SOUND CONCRETE BETWEEN THE DOUGEL AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. IF THE ANCHOR OR DOUGEL MAY NOT BE SHIFTED AS NOTED ABOVE, THE STRUCTURAL ENGINEER WILL DETERMINE A NEW LOCATION.
7. LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH MECHANICAL ANCHORS.
8. ANCHORS SHALL BE PROOF-TESTED BY OWNER'S TESTING AND INSPECTION AGENCY.
9. TEST ANCHORS NO SOONER THAN 24 HOURS AFTER INSTALLATION.
10. APPLY TEST LOAD BY ANY METHOD THAT WILL EFFECTIVELY MEASURE THE TENSION OF THE ANCHOR SUCH AS DIRECT PULL WITH A HYDRAULIC JACK, TORQUE WRENCH, OR CALIBRATED SPRING LOADING DEVICES, ETC.
11. REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED, PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY A BASE PLATE OR OTHER FIXTURE. IF RESTRAINT IS FOUND, LOOSEN AND SHIM OR REMOVE THE FIXTURE PRIOR TO TESTING.
12. UNLESS OTHERWISE NOTED, PROVIDE MINIMUM EMBEDMENT OF ANCHORS AS SHOWN IN TABLES BELOW.
13. TEST 50% OR ALTERNATE BOLTS IN A GROUP, INCLUDING AT LEAST ONE-HALF THE ANCHORS IN EACH GROUP OF ANCHORS PER ONE OF THE FOLLOWING METHODS AND IN ACCORDANCE WITH CBC 1910A.5.
A. HYDRAULIC RAM METHOD: APPLY PROOF TEST LOAD WITHOUT REMOVING THE NUT. IF IT IS NOT POSSIBLE TO TEST WITH THE NUT INSTALLED, REPLACE THE NUT WITH A THREADED COUPLER TO THE LOAD. ANCHOR IS ACCEPTABLE IF NO MOVEMENT IS OBSERVED FOR A MIN. OF 15 SECONDS AT THE TEST LOAD (CBC 1910A.5.3). MOVEMENT MAY BE DETERMINED WHEN THE WASHER UNDER THE NUT BECOMES LOOSE.
B. TORQUE WRENCH METHOD: TEST ANCHORS TO THE TORQUE LOAD INDICATED IN THE TABLE WITH ONE-HALF TURN OF THE NUT.
14. IF ANY ANCHOR FAILS TESTING, REPLACE ANCHOR AND TEST ADDITIONAL ANCHORS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE TESTS PASS, THEN RESUME INITIAL TESTING FREQUENCY.

HEATER/GAS PIPING INSTALLATION NOTE

GAS FIRED POOL HEATER(S) INSTALLED ON A GAS SUPPLY SYSTEM UTILIZING A 2 PSI OR 5 PSI SUPPLY. GAS PRESSURE SHALL REQUIRE A REGULATOR TO REDUCE THE SUPPLY PRESSURE. A PROPERLY SIZED AND INSTALLED LOCK-UP-TYPE HIGH GAS PRESSURE REGULATOR (HGPR) SHALL BE USED TO REDUCE THE GAS PRESSURE AT THE UNIT INLET TO A MINIMUM OF 4" TO A MAXIMUM OF 11" WATER COLUMN.

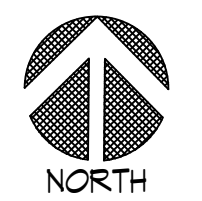
GENERAL NOTES

- 1. THE PIPING SYSTEM SHALL HAVE DIRECTION OF FLOW ARROWS INDICATED ON THE PIPES.
2. PUBLIC POOLS SHALL HAVE A FLOW DIAGRAM OF THE POOL'S PIPING SYSTEM WITH OPERATION INSTRUCTIONS.
3. THE FLOW DIAGRAM AND INSTRUCTIONS SHALL BE AVAILABLE ON THE PREMISES AT ALL TIME.
4. ALL MECHANICAL ROOM FLOORS SHALL BE SLOPED A MIN 1/8" PER FOOT TO FLOOR DRAINS PER CBC 3122B. SEE ARCHITECTURAL SHEETS FOR SPOT ELEVATIONS AND SLOPES.
5. ALL FILL SYSTEMS WILL BE PROTECTED WITH A BACKFLOW PREVENTION DEVICE IN ACCORDANCE WITH CHAPTER 6 OF THE CALIFORNIA BUILDING CODE.

WEDGE OR EXPANSION ANCHOR EMBEDMENT DEPTH AND TEST LOAD

Table with 4 columns: Size, Min. Embed (in#), Torque Load (FT-LBS) for HILTI KB TZ 2 (ESR-4266), and Min. Embed (in#), Torque Load (FT-LBS) for KB TZ 2 (ESR-4561).

MECHANICAL ROOM PLAN
1/4" = 1'-0"



Mission Oak HS Aquatic Complex
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Tulare, CA 93274

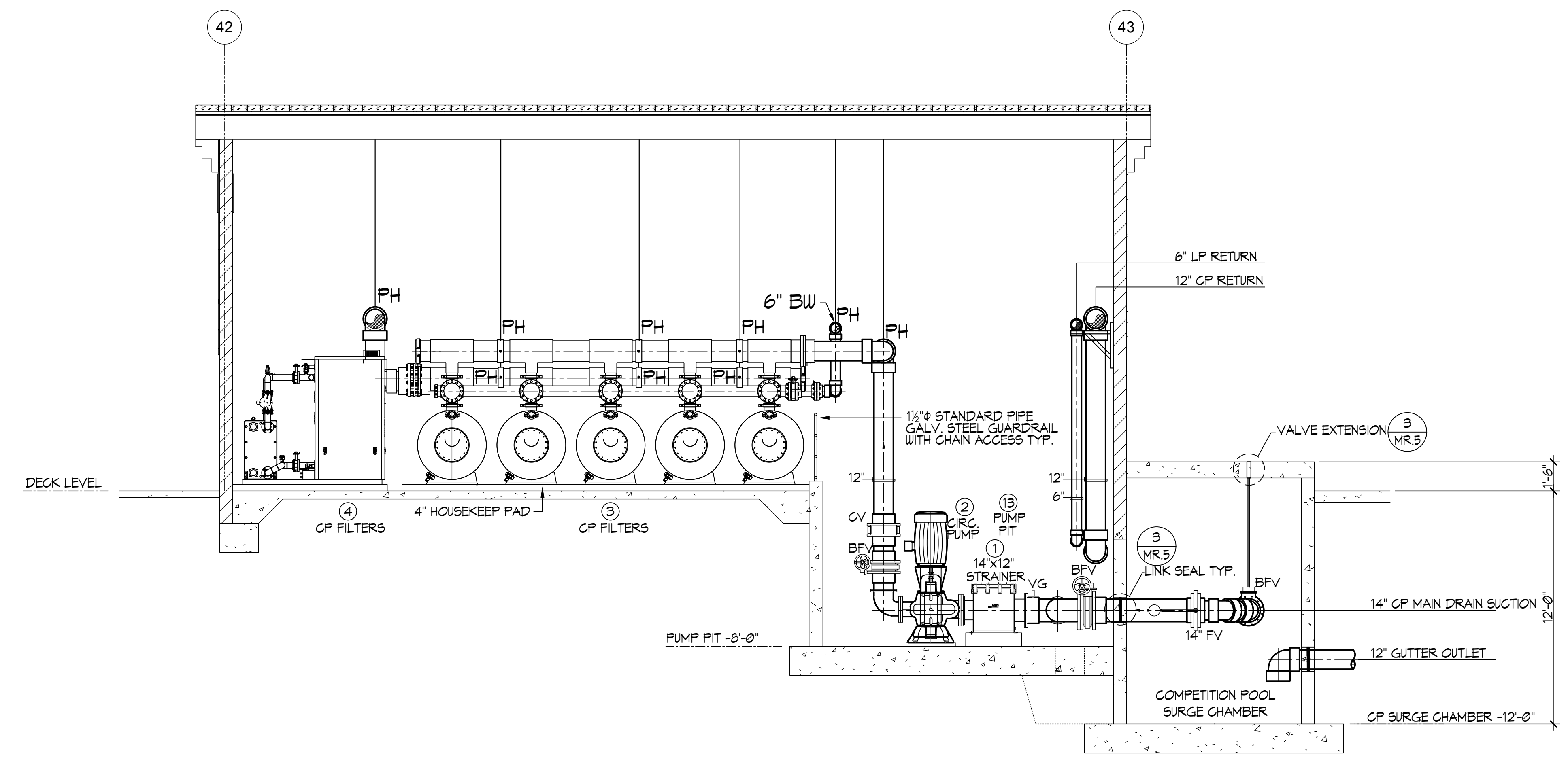
MECHANICAL ROOM PLAN
Drawing

DARDEN ARCHITECTS logo and contact information: 6790 N. West Ave., Fresno, CA 93711

Revision table with columns: No., Revision/Submission, Date, and a signature line for AP.

MR-1

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- NOTES:
1. REFER TO MECHANICAL PLANS FOR HEATER VENTING, EXHAUST DUCTING, FLUE TERMINUS AND PENETRATION(S) THROUGH BUILDING STRUCTURE.
 2. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING LAYOUT AND CONSTRUCTION REQUIREMENTS.
 3. SEE SHEET MR.1 FOR EQUIPMENT LIST.

MECHANICAL ROOM SECTION

1/4"=1'-0"



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 Tulare, CA 93274

MECHANICAL ROOM SECTION
 Drawing

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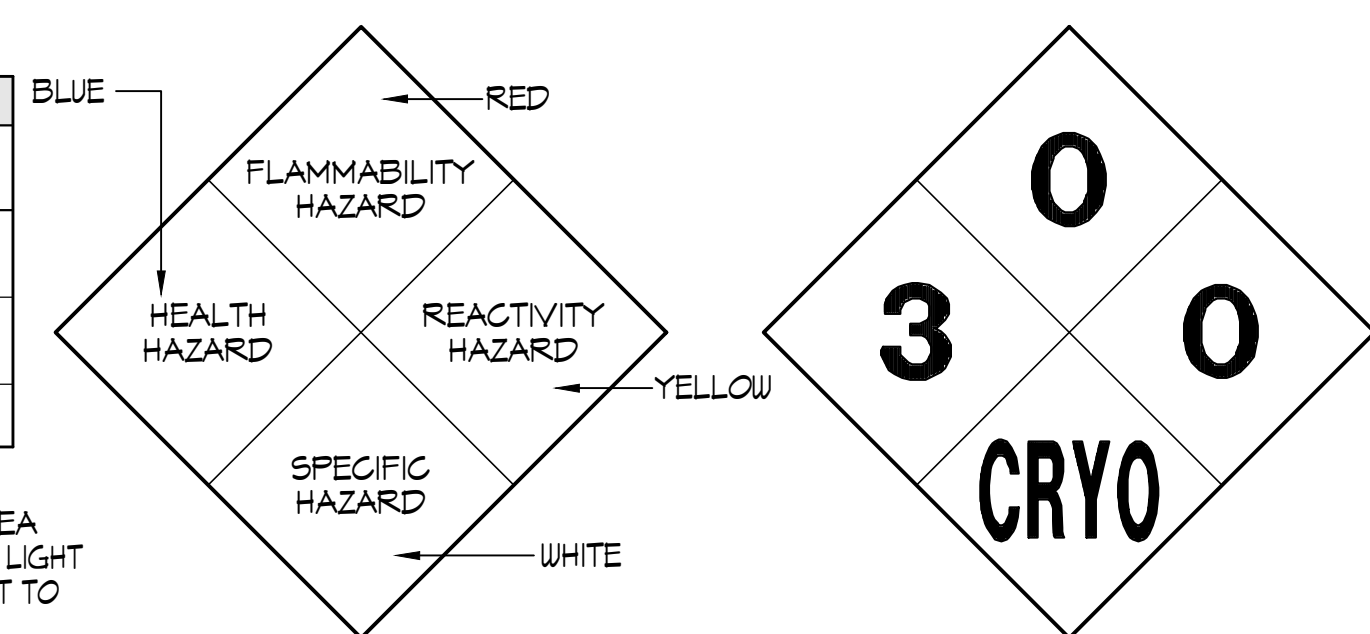
MR-2

CHEMICAL CLASSIFICATION TABLE										
COMMON NAME	CHEMICAL NAME	% COMP.	CAS #	FORM	QUANT. STORED (NOT USED)	QUANT. IN USE (USE-CLOSED)	MAXIMUM ALLOWABLE QUANTITY	LOCATION (STORAGE & USE)	HAZ. CLASSES	JUSTIFICATION
SODIUM HYPOCHLORITE	SODIUM HYPOCHLORITE	12.5%	7681-52-9	LIQUID	0 GAL.	500 GAL.	500 GAL.	CHEM. ROOM	CORROSIVE LIQUID	MSDS
MURIATIC ACID	HYDROCHLORIC ACID	25%	7647-01-0	LIQUID	0 GAL.	150 GAL.	500 GAL.	CHEM. ROOM	CORROSIVE LIQUID	MSDS
CARBON DIOXIDE	CARBON DIOXIDE	100%	124-38-9	LIQUID	0 lbs.	600 lbs.	600 lbs.	CHEM. ROOM	CRYOGENIC INERT	MSDS

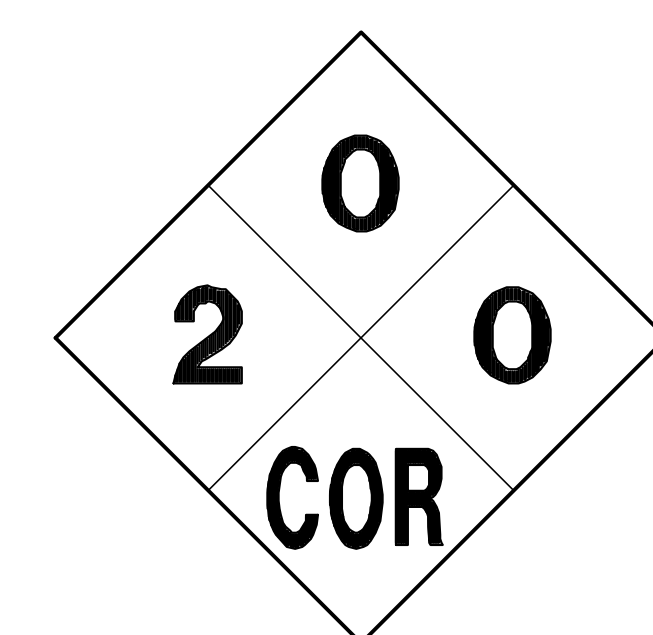
QUANTITIES OF CHEMICALS DO NOT EXCEED THE QUANTITIES LISTED IN CBC TABLES 307.1 (1) AND 307.1 (2). FOR CARBON DIOXIDE GAS SEE TABLE 112.2(b) OF THE NFPA-1. 6,000 FT³ ALLOWABLE OR 600 lbs. STORAGE PER CONTAINED AREA. PROVIDE HARD WIRED CO₂ DETECTOR ANALOG SENSOR TECHNOLOGY MODEL #AF1 KIT SENSOR AND STROBE UNITS 120V HARD WIRED W/ STROBE LIGHT AND AUDIBLE ALARM. SENSOR MOUNTED 18 INCHES A.F.F. AND ALARM LEVEL BETWEEN 10-16 INCHES AND WITHIN VISIBLE EYESIGHT OF DOOR. TO BE SET TO DETECT CO₂ GAS IN LEVELS IN EXCESS OF THE PEL. PROVIDE IN EACH ROOM CONTAINING CO₂.

RATING EXPLANATION GUIDE			
RATING	HEALTH HAZARD	FLAMMABILITY HAZARD	SPECIFIC HAZARD
4	CAN BE LETHAL	EXTREMELY FLAMMABLE. IGNITES AT BELOW 73° F.	OXIDIZER: OX ACID: ACID
3	CAN CAUSE SERIOUS OR PERMANENT INJURY	IGNITES AT ABOVE 73° F. BELOW 100° F.	ACID: ACID CORROSIVE: COR
2	CAN CAUSE TEMPORARY INCAPACITATION OR RESIDUAL INJURY	IGNITES AT ABOVE 100° F. BELOW 200° F.	ALKALI: ALK USE NO WATER: -W-
1	CAN CAUSE SIGNIFICANT IRRITATION	IGNITES AT ABOVE 200° F.	RADIATION HAZARDS: POLYMERIZES: P
0	NO HAZARD	WILL NOT BURN	STABLE

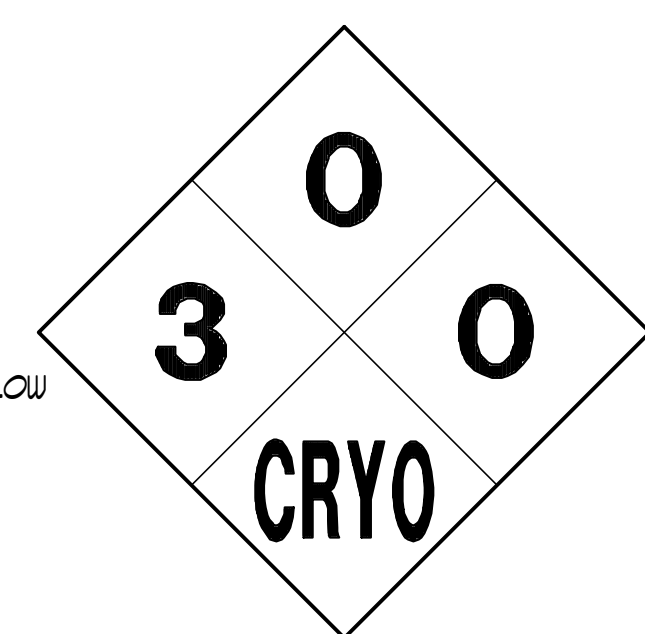
NOTES:
1. CONFIRM SIGNAGE WITH LOCAL FIRE MARSHALL AND/OR BUILDING CODES PRIOR TO INSTALLATION. SIGNS SHALL CONFORM TO NFPA 704.
2. SIGNS SHALL BE SIZES AND COLORS PER CODE MOUNTED AT +60" A.F.F. ON DOORS AT CHEMICAL ROOMS.



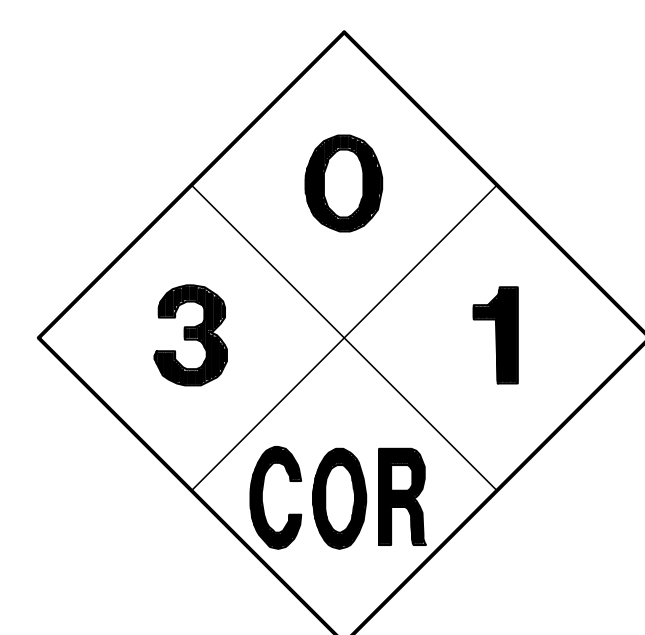
LEGEND



SODIUM HYPOCHLORITE

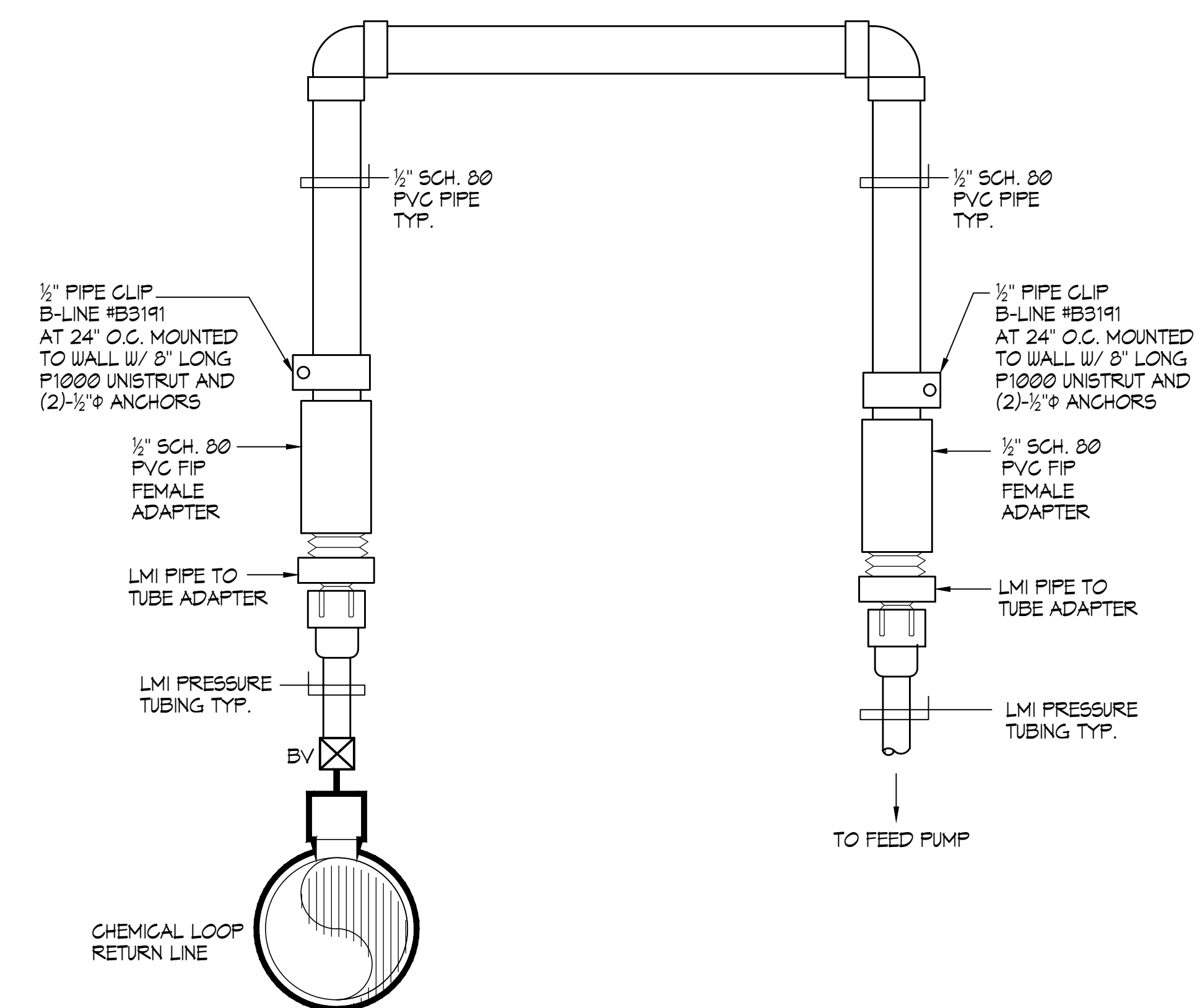
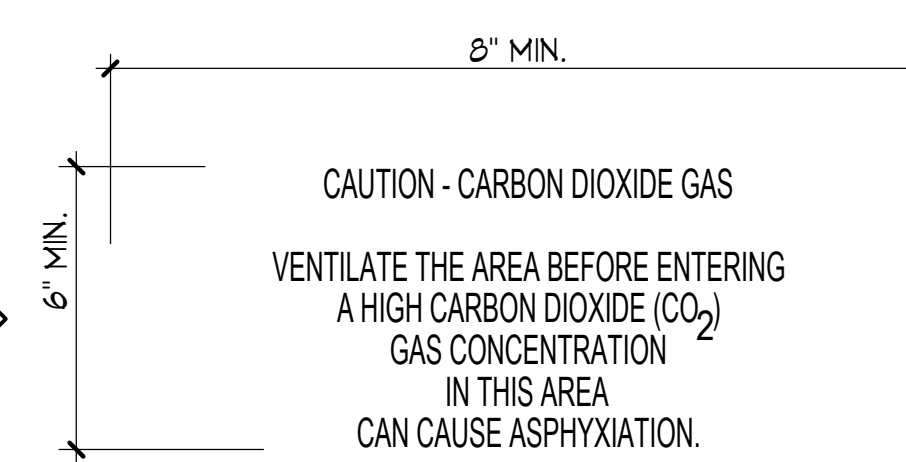


CARBON DIOXIDE



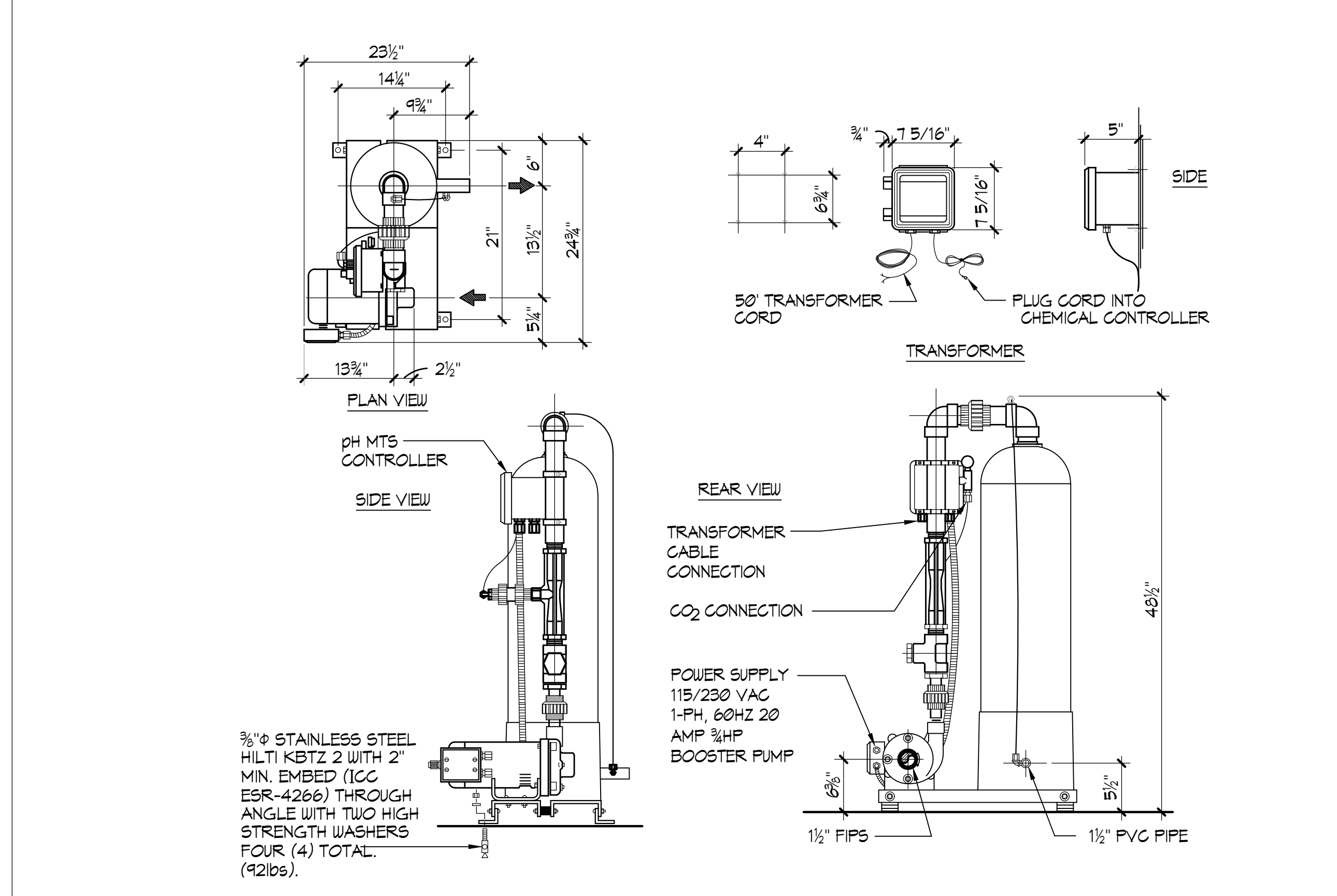
MURIATIC ACID

SIGN SHALL BE POSTED AT ROOM ENTRANCE. SIGN SHALL BE NOT LESS THAN 8" IN LENGTH AND 6" IN HEIGHT AND INDICATE:

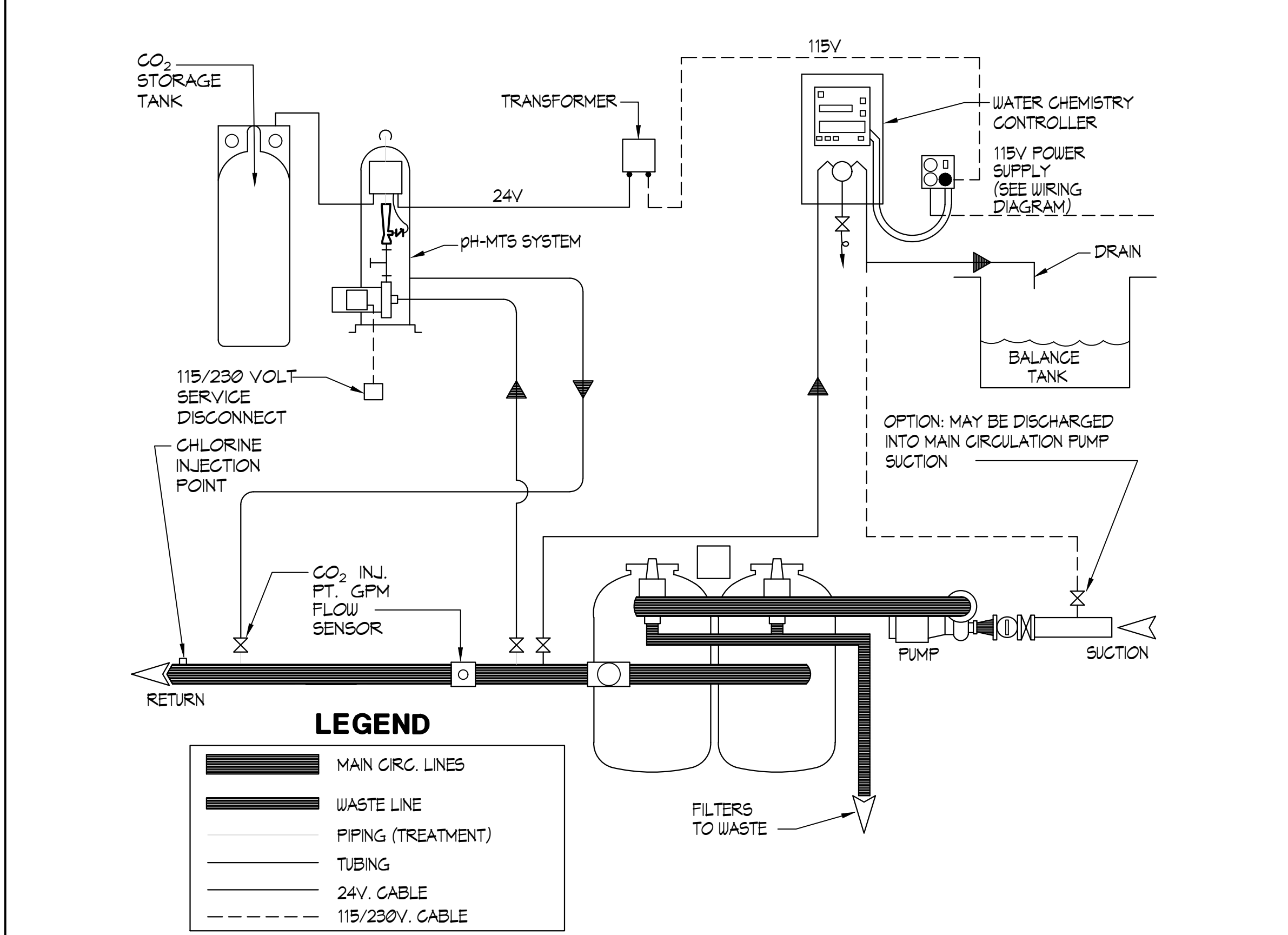


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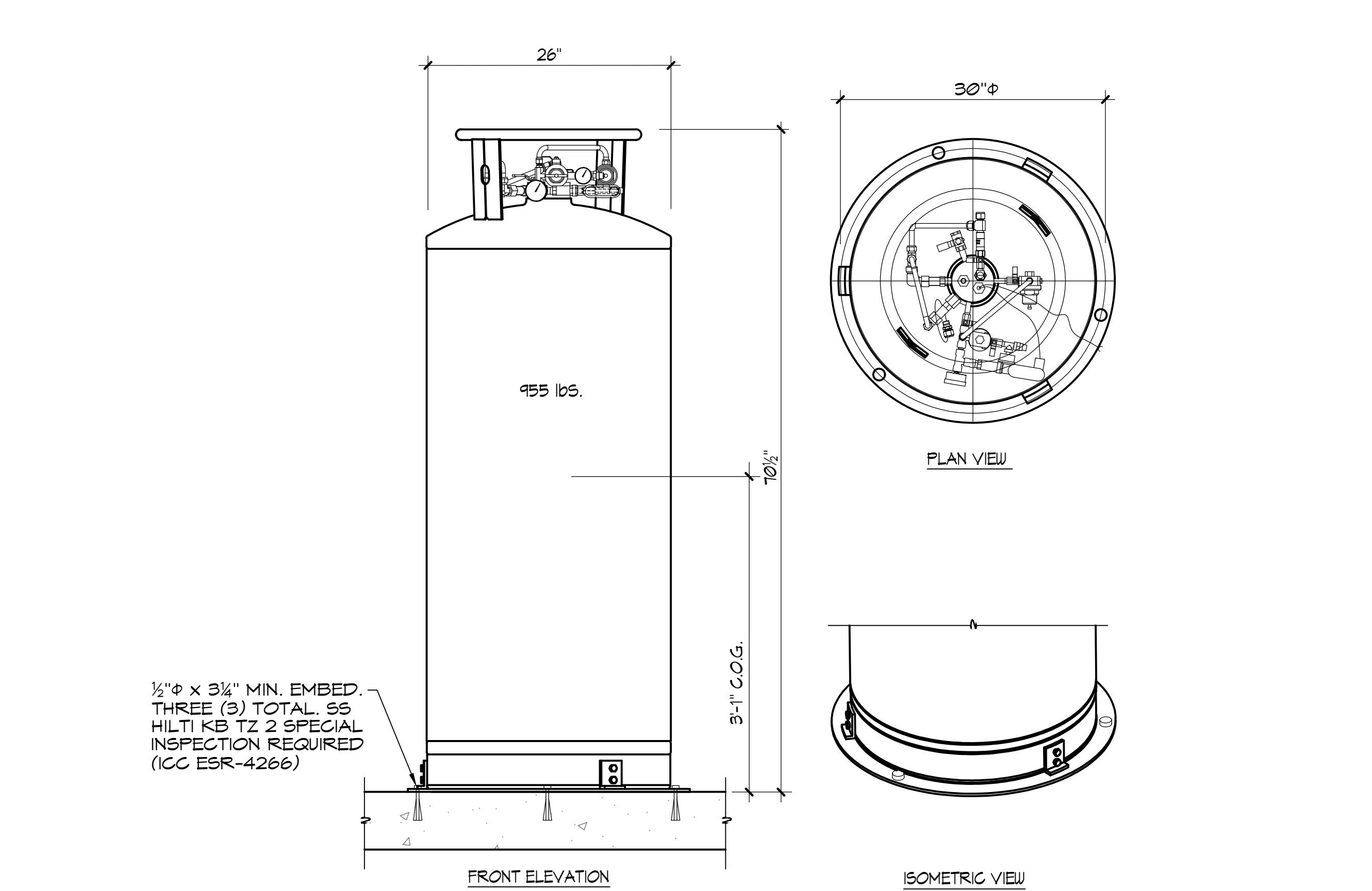
1 HAZARDOUS INFORMATION SIGNAGE NO SCALE



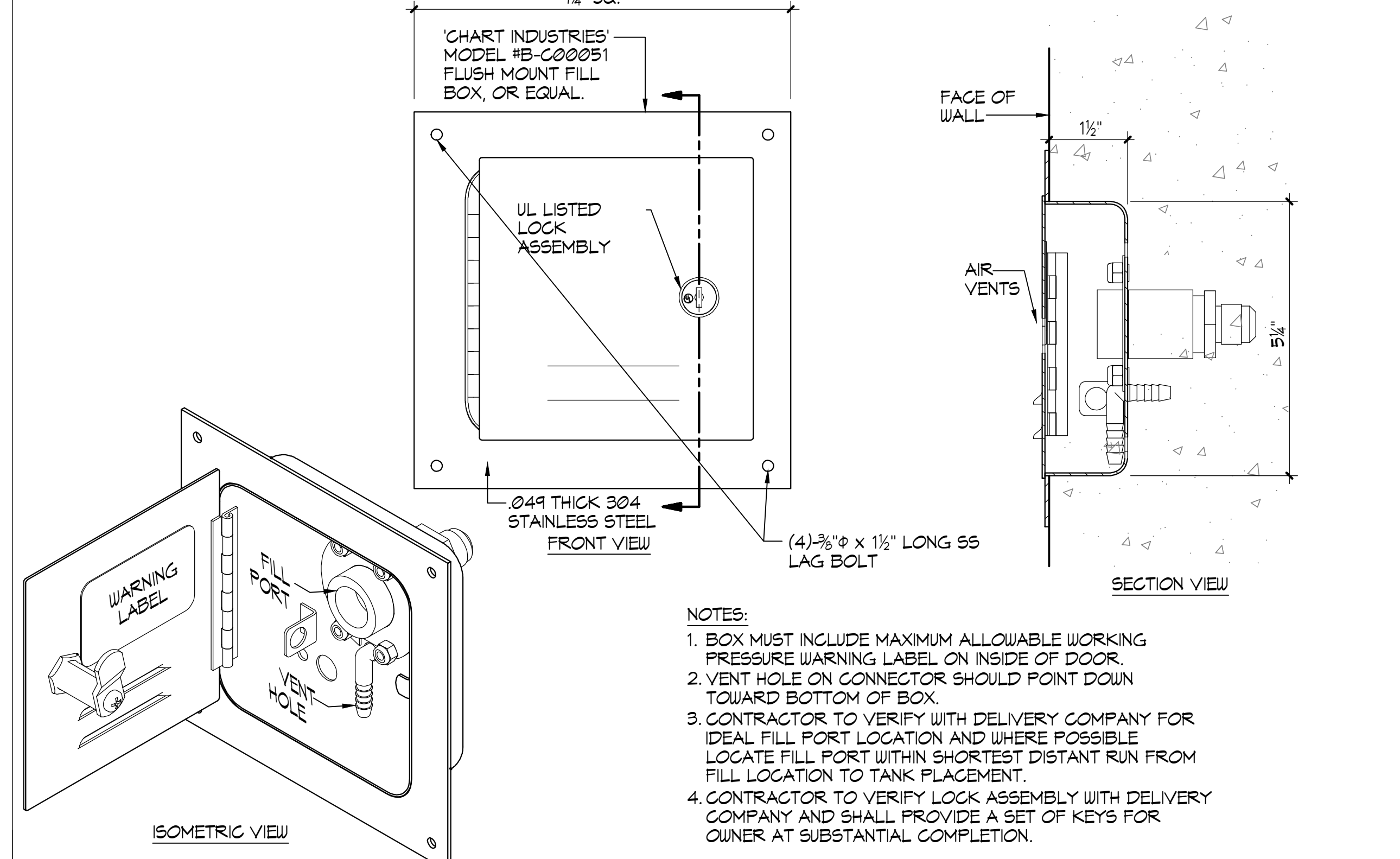
4 TYPICAL CARBON DIOXIDE pH-MTS INSTALLATION NO SCALE



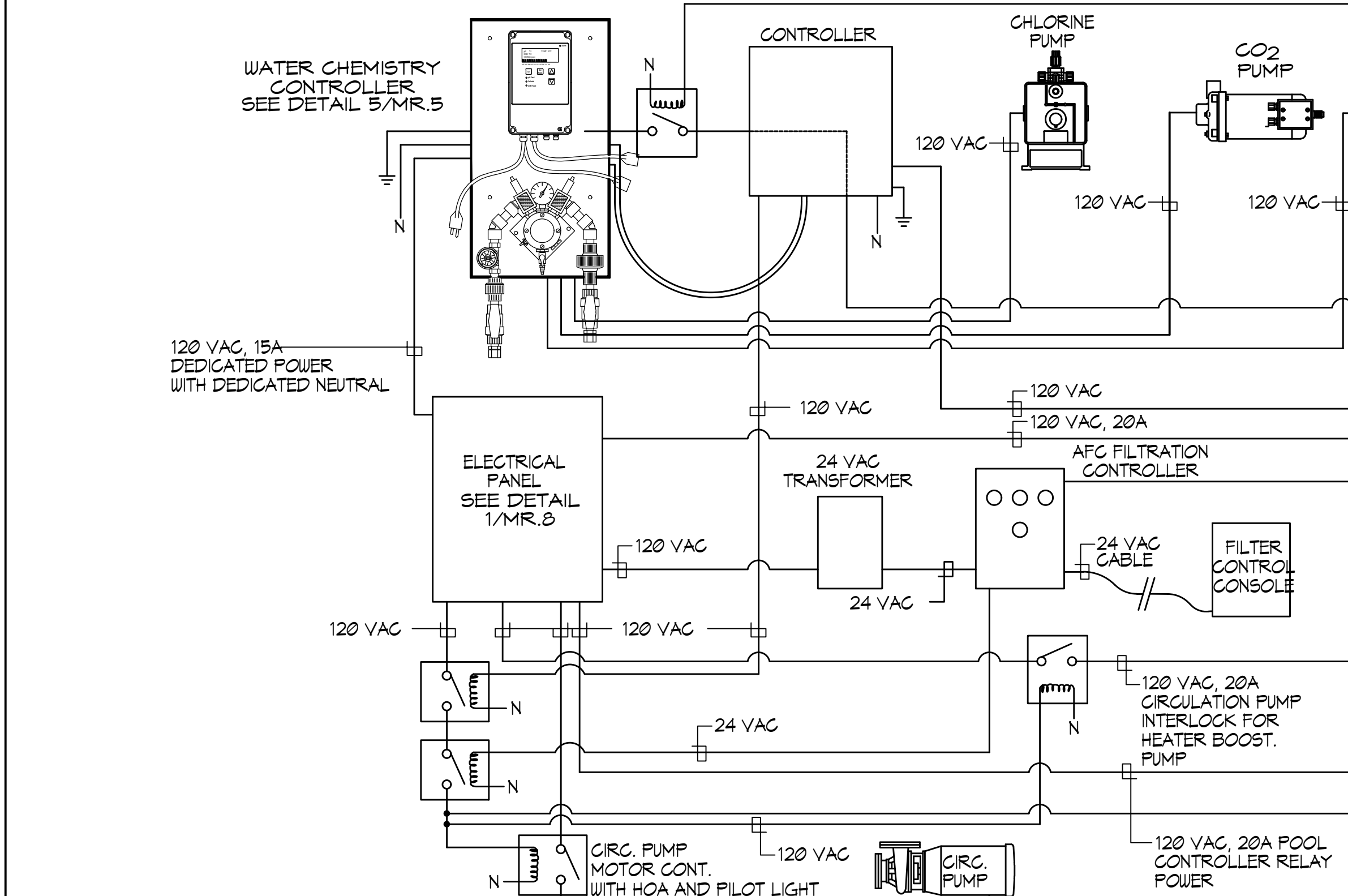
2 CHEMICAL FEED PIPING DETAIL NO SCALE



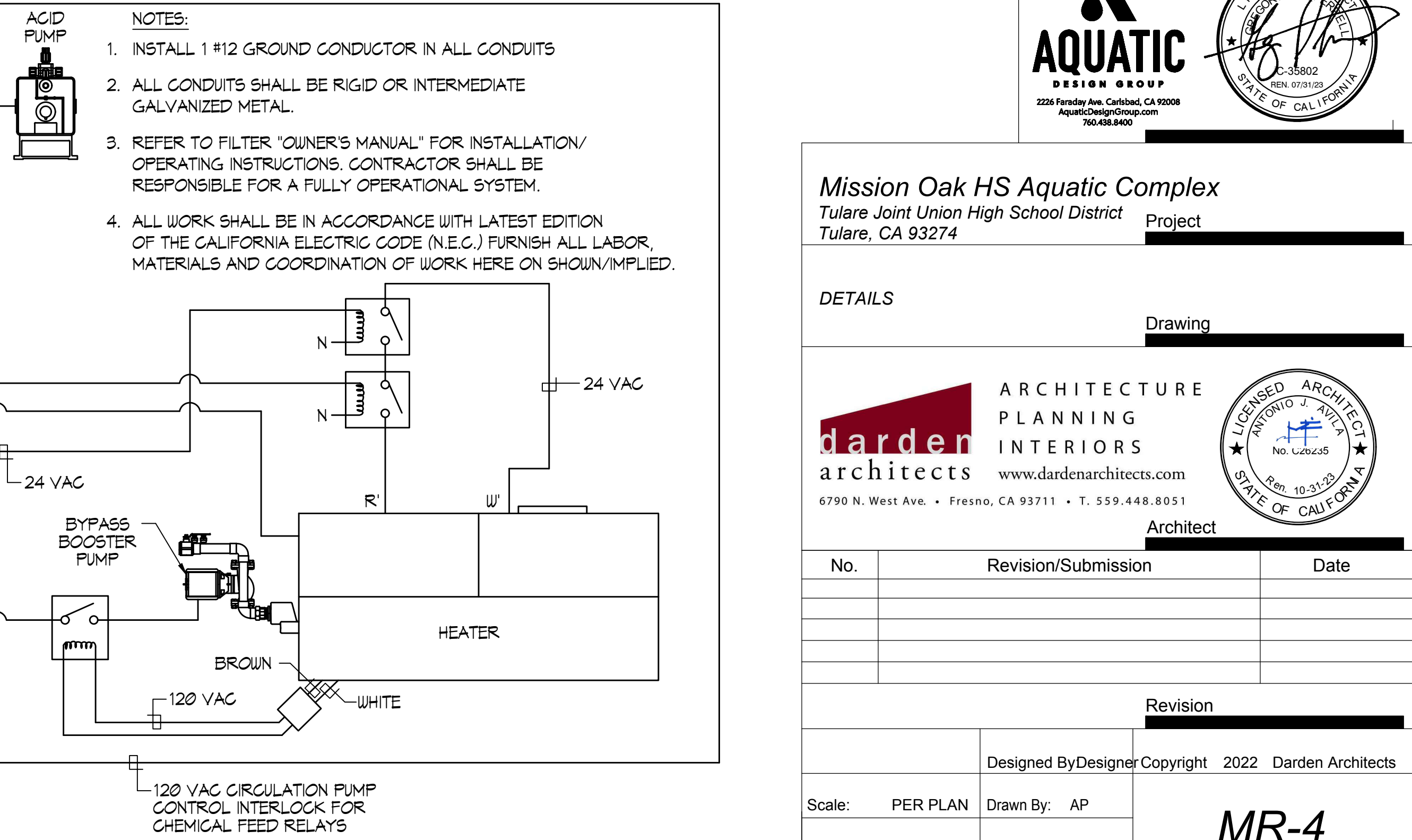
3 CARBON DIOXIDE pH MTS CONTROLLER NO SCALE



7 POOL MECHANICAL ELECTRICAL INTERCONNECTION DIAGRAM NO SCALE



5 CO2 TANK ANCHORAGE DETAIL NO SCALE



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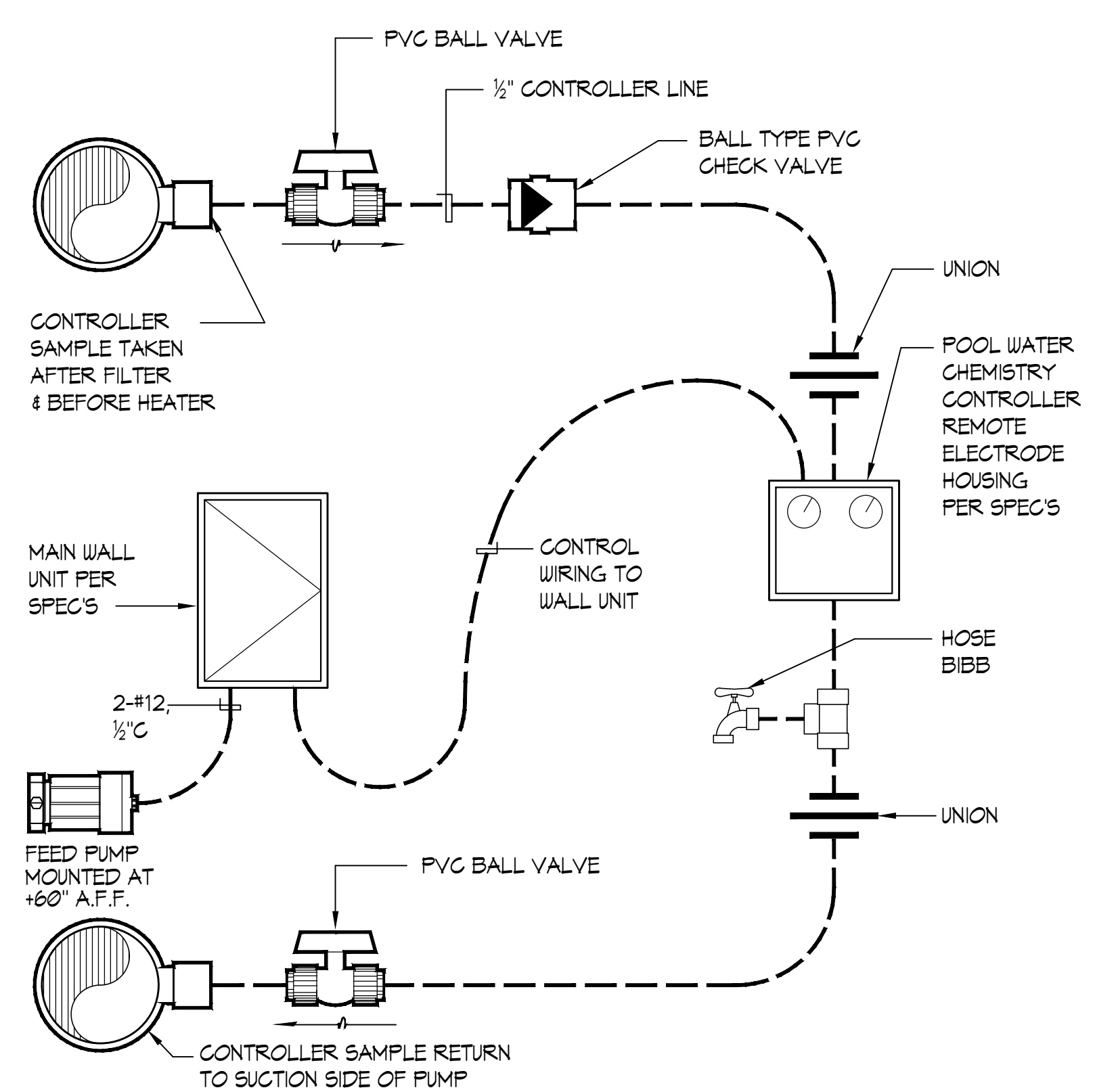
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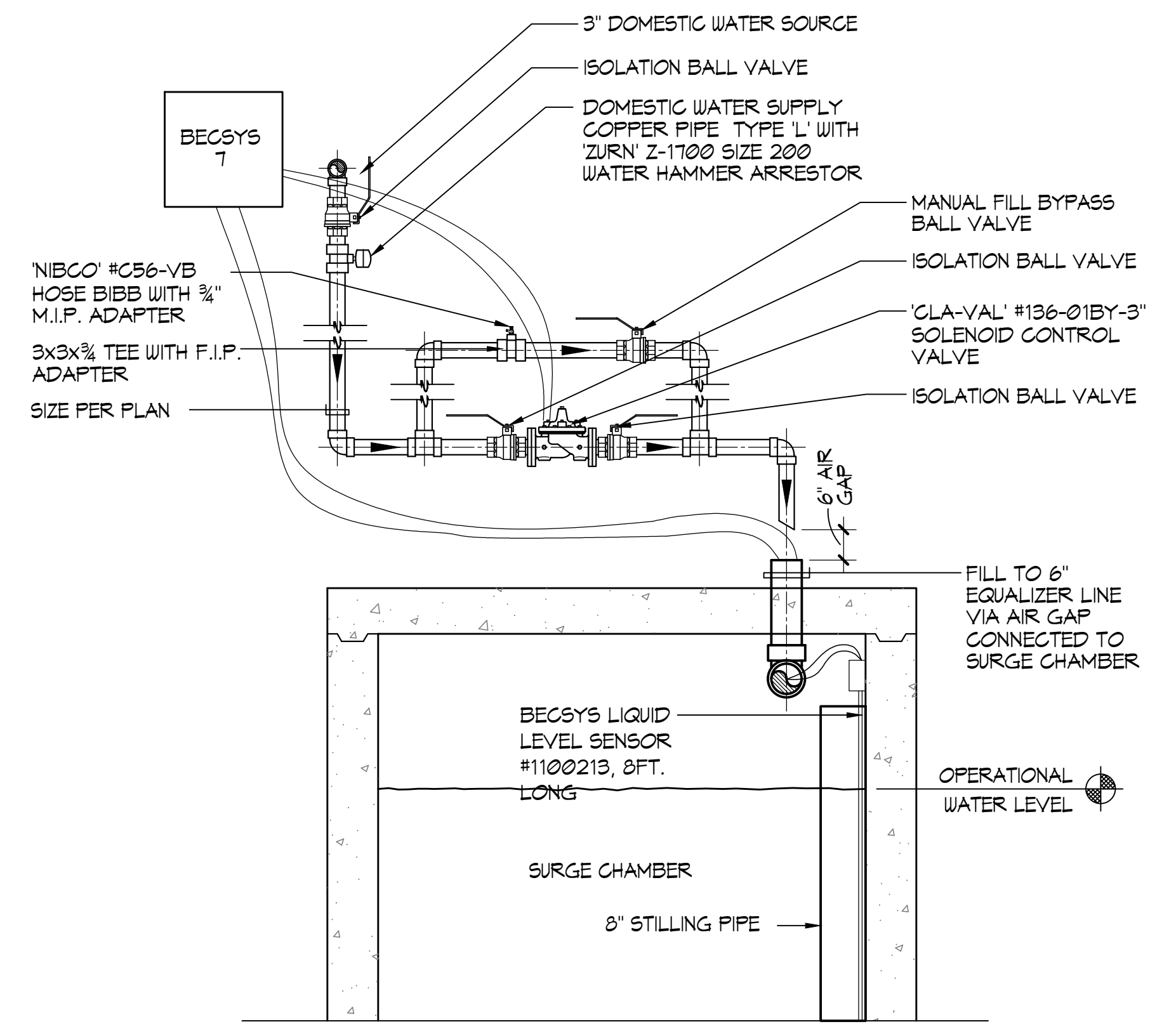
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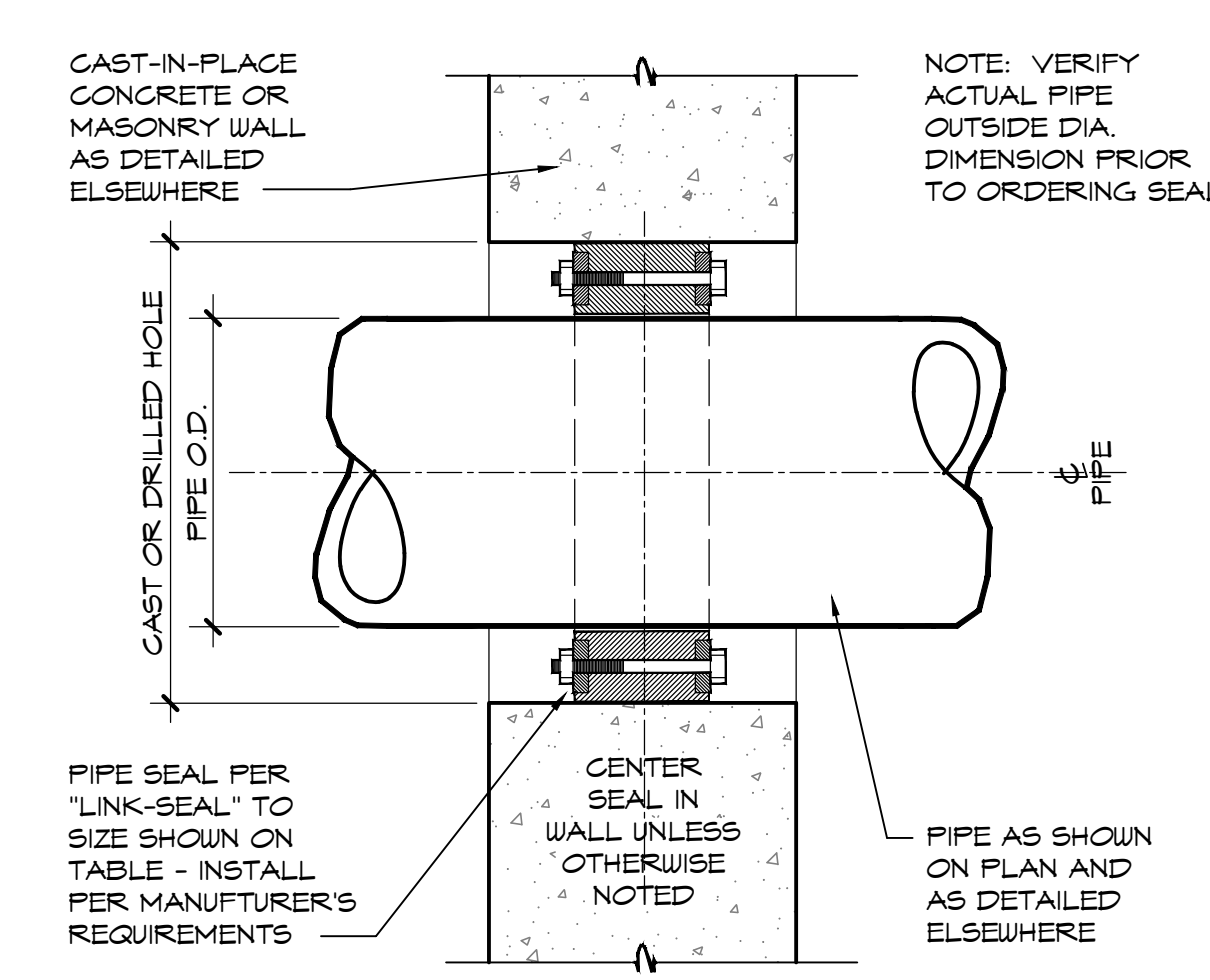
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1 WATER CHEMISTRY CONTROLLER SCHEMATIC NO SCALE



2 AUTOMATIC/MANUAL WATER MAKE-UP SCHEMATIC NO SCALE



3 PIPE SEAL TO WALL / FLOOR NO SCALE

Table with columns: PIPE SIZE (NOMINAL), OUTSIDE DIAMETER (PIPE O.D.), CAST-IN-PLACE CONCRETE OR MASONRY WALL AS DETAILED ELSEWHERE, PIPE O.D., CENTER SEAL IN WALL UNLESS OTHERWISE NOTED, PIPE AS SHOWN ON PLAN AND AS DETAILED ELSEWHERE, LINK SEAL NO., and # OF LINKS PER SEAL.

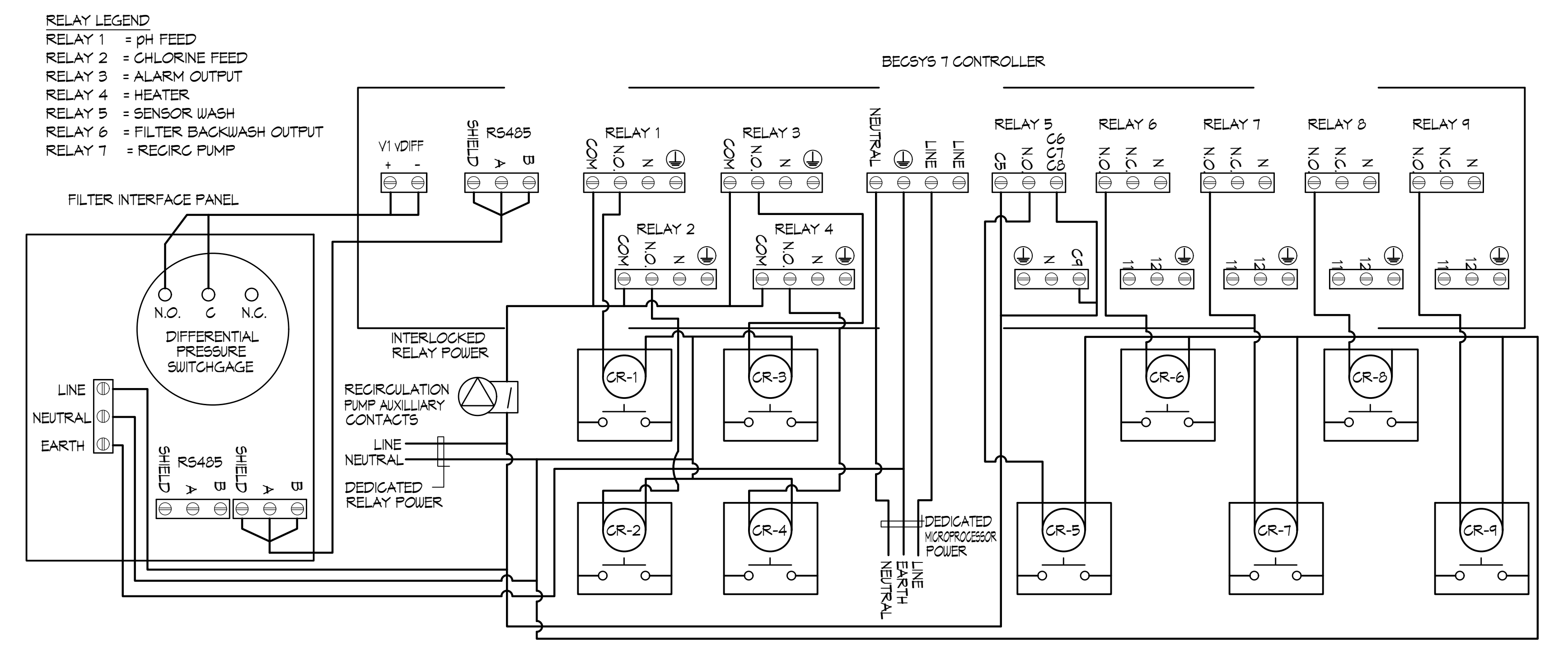
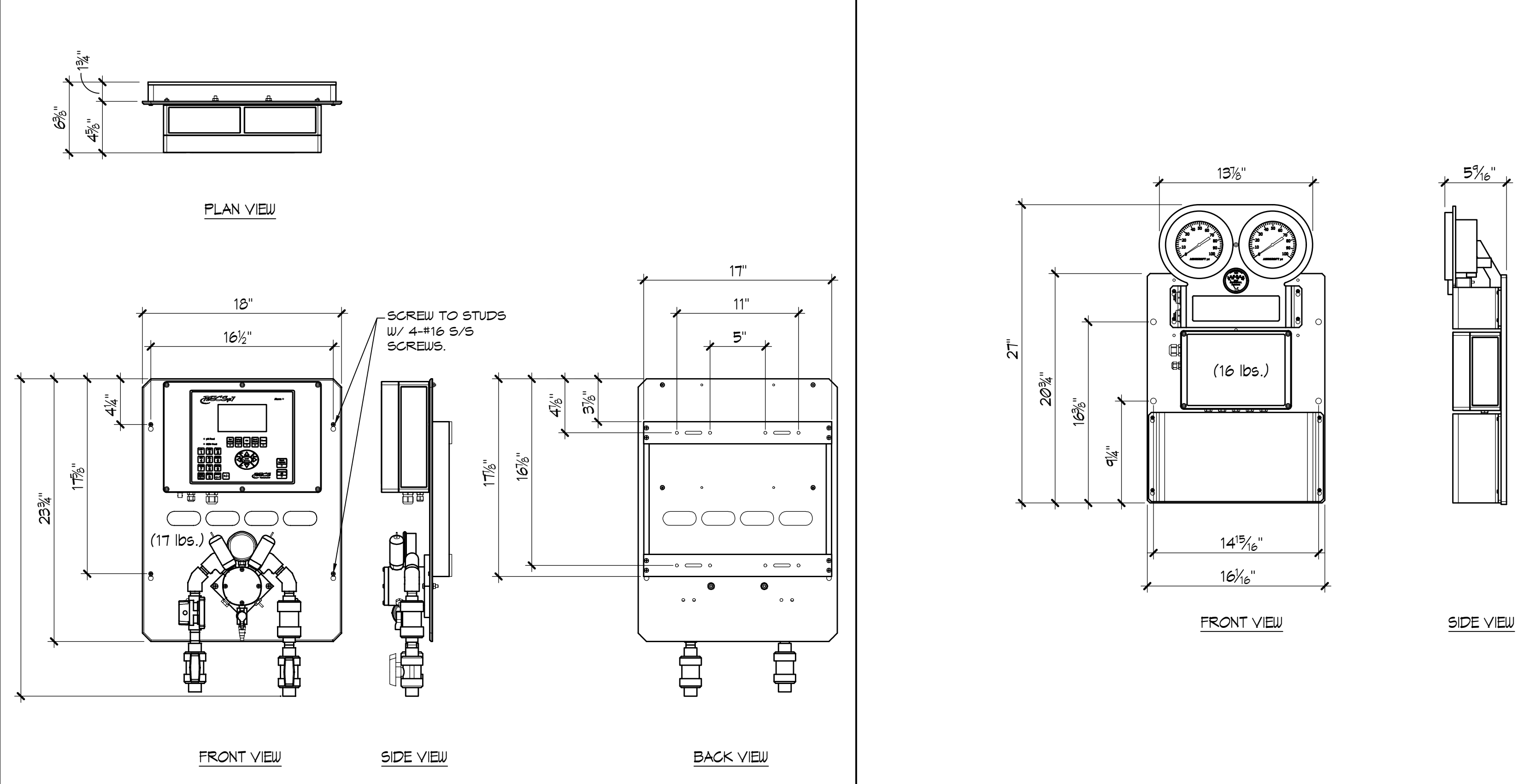
Panel Schedule for SP1. Includes columns for Description, Voltage (120/208V 3PH 4W), Location (MECHANICAL EQUIP. RM.), and various electrical specifications.

4 PANEL SCHEDULE

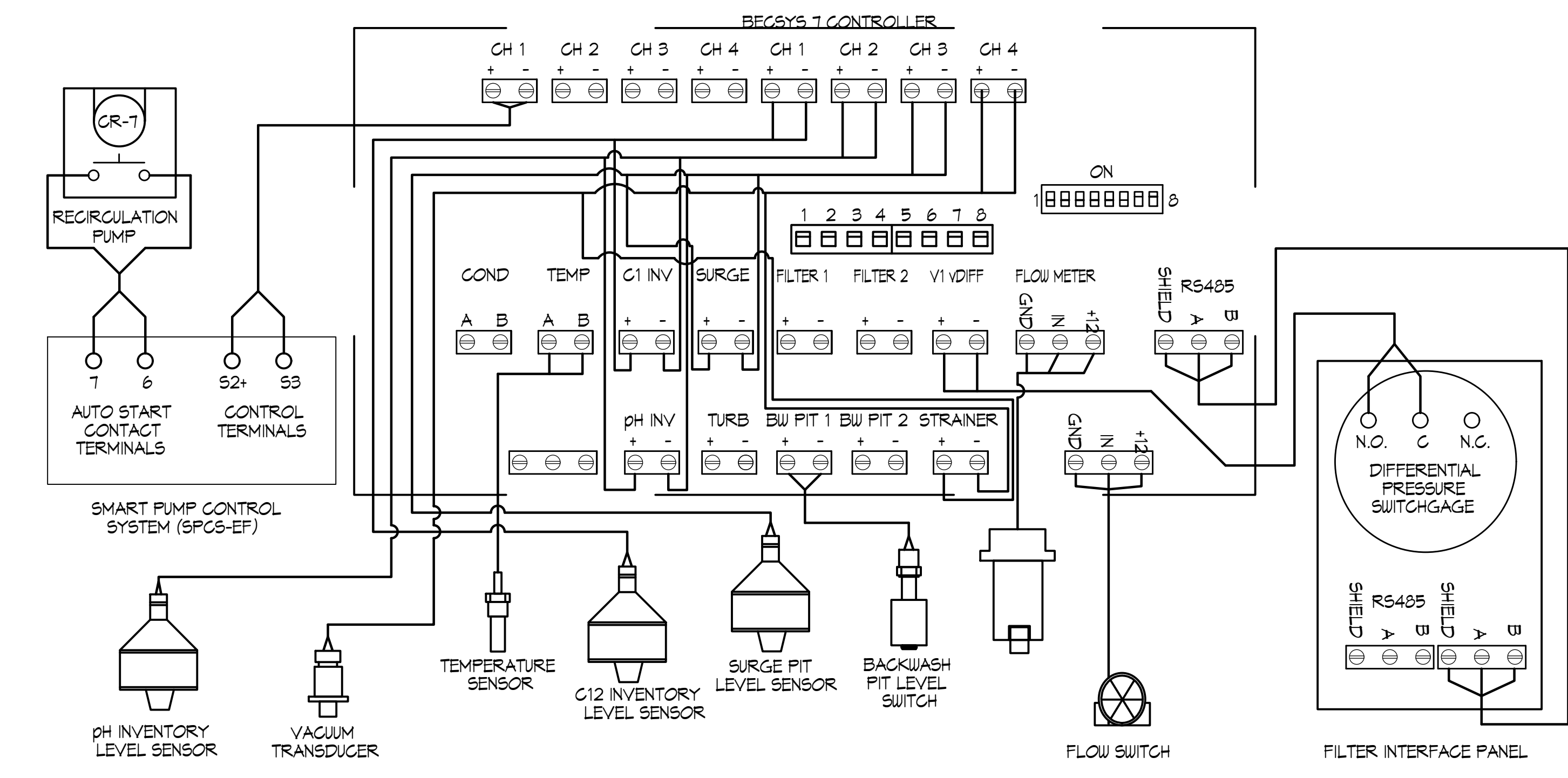
Panel Schedule for SP2. Includes columns for Description, Voltage (120/208V 3PH 4W), Location (MECHANICAL EQUIP. RM.), and various electrical specifications.

5 BECSYS 7 WATER CHEMISTRY CONTROLLER

6 BECSYS FILTER INTERFACE



7 BECSYS 7 CONTROLLER NO SCALE



8 BECSYS 7 CONTROLLER NO SCALE

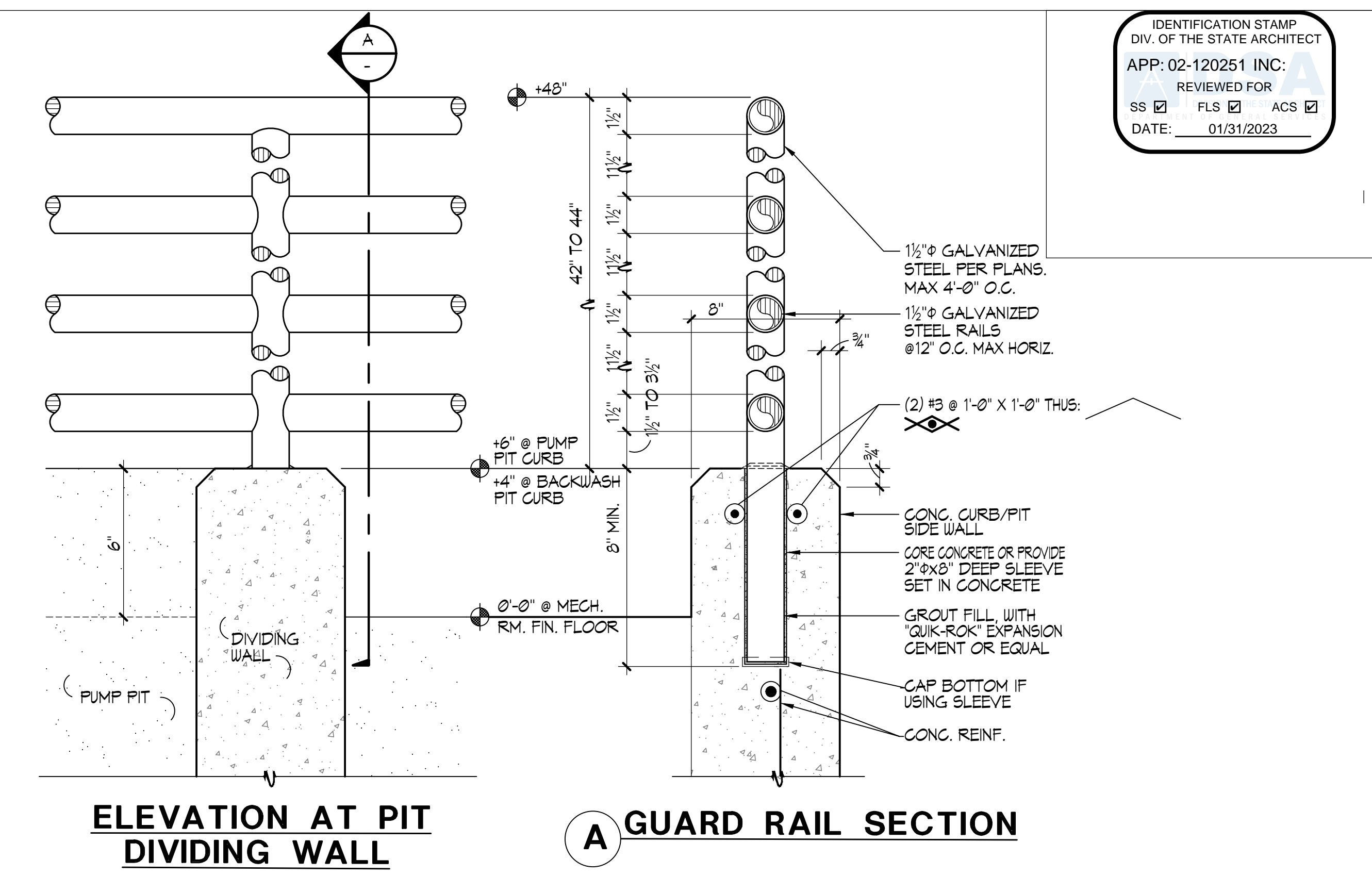
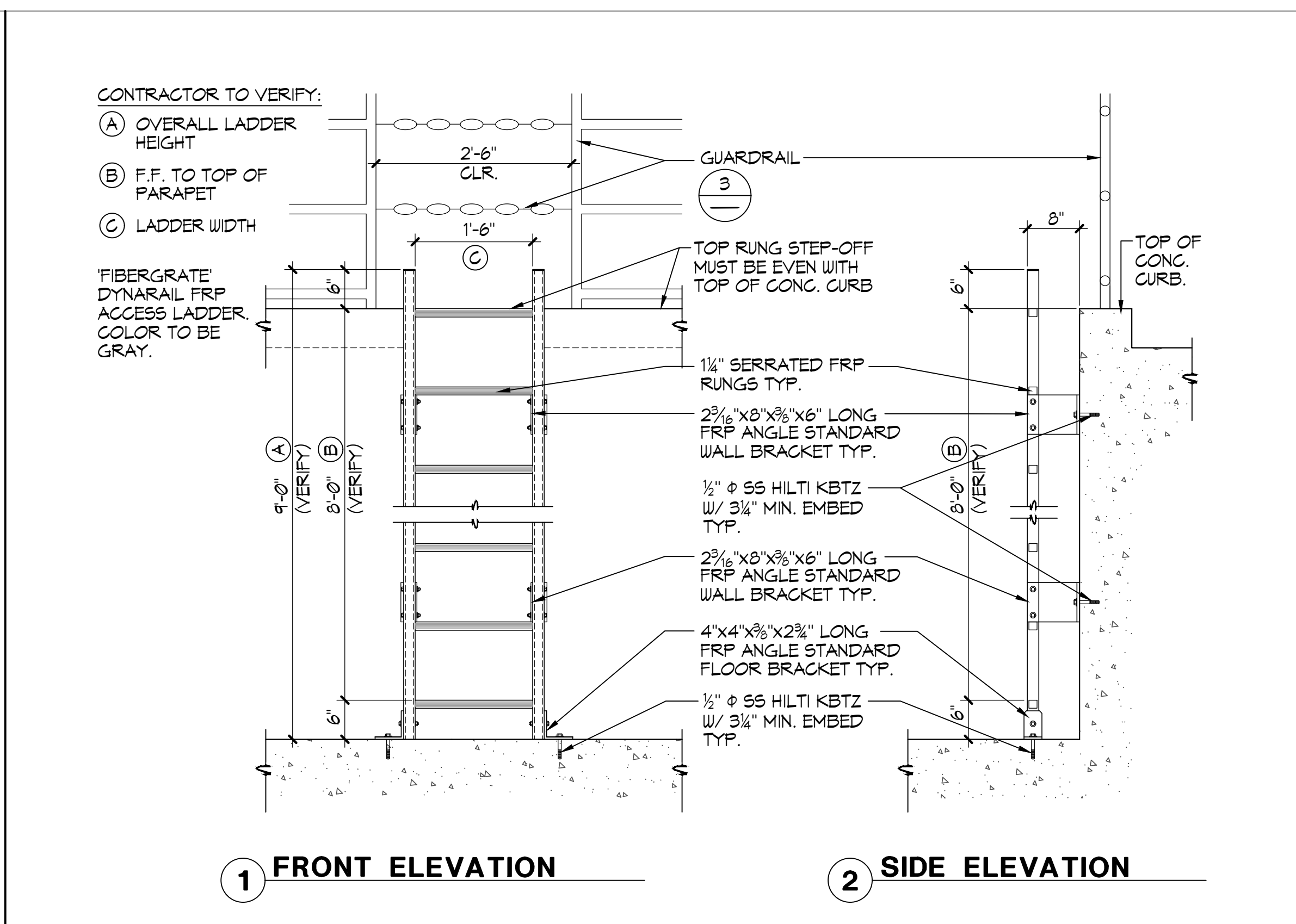
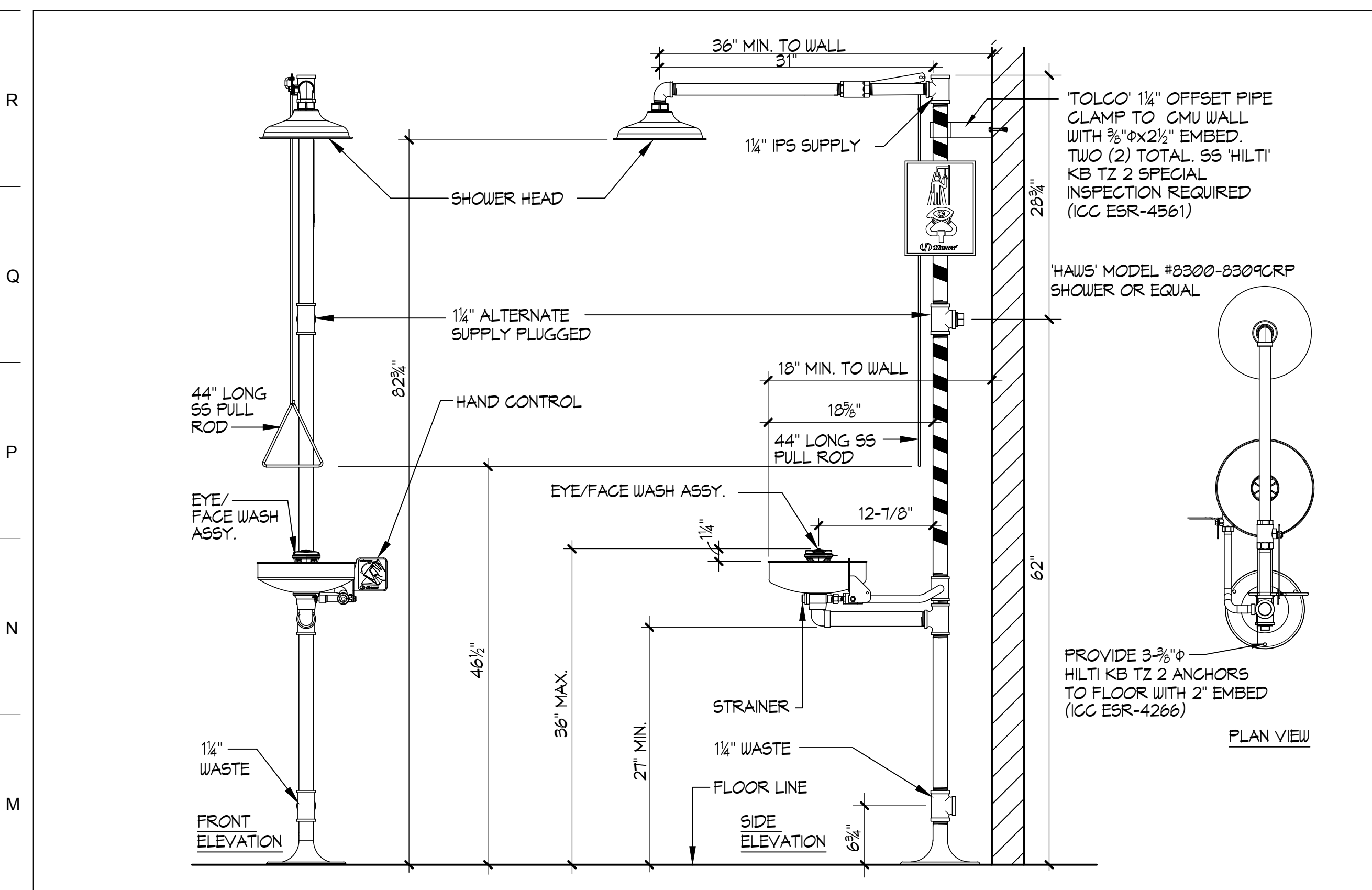


Mission Oak HS Aquatic Complex
Tulare Joint Union High School District
Tulare, CA 93274

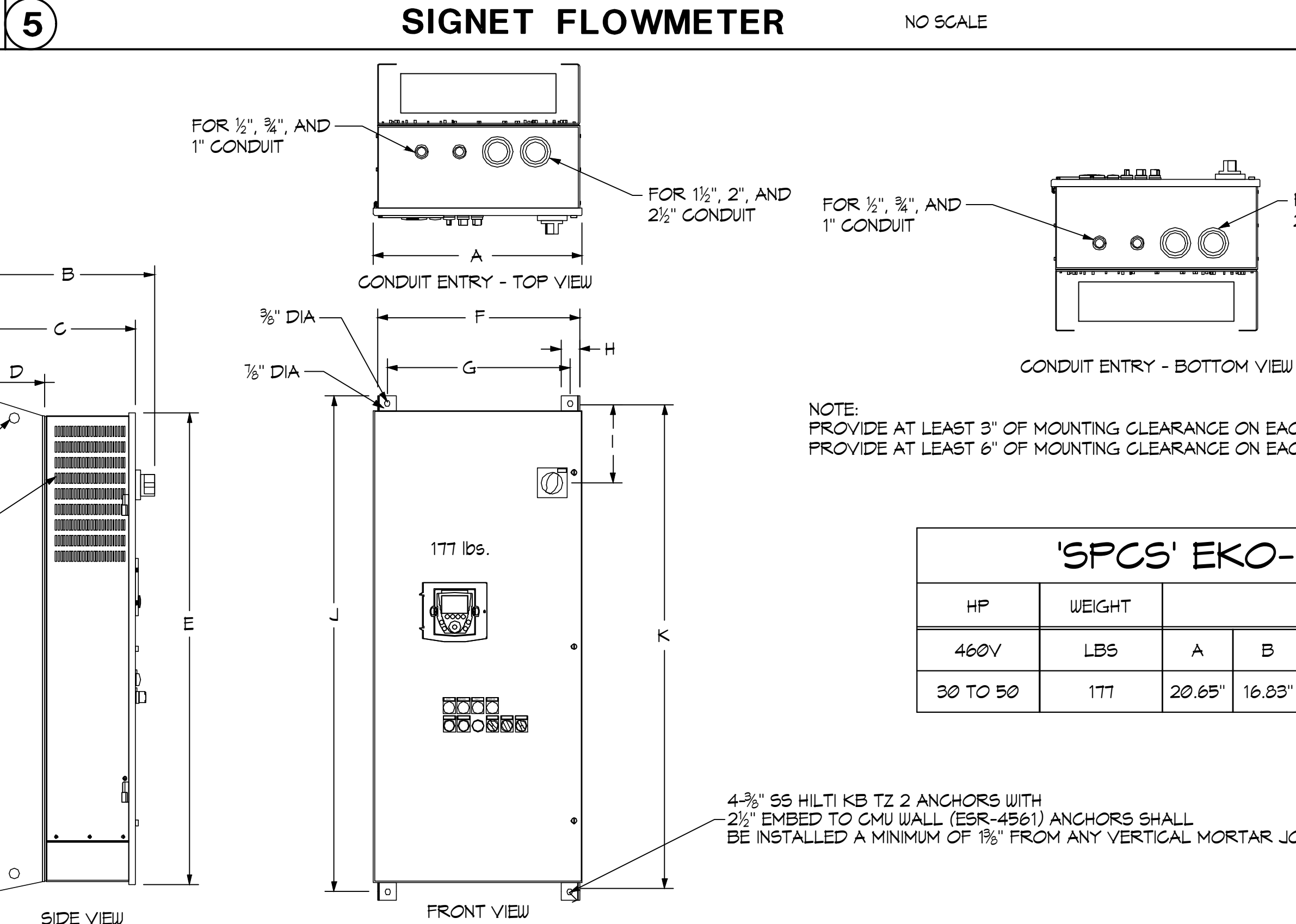
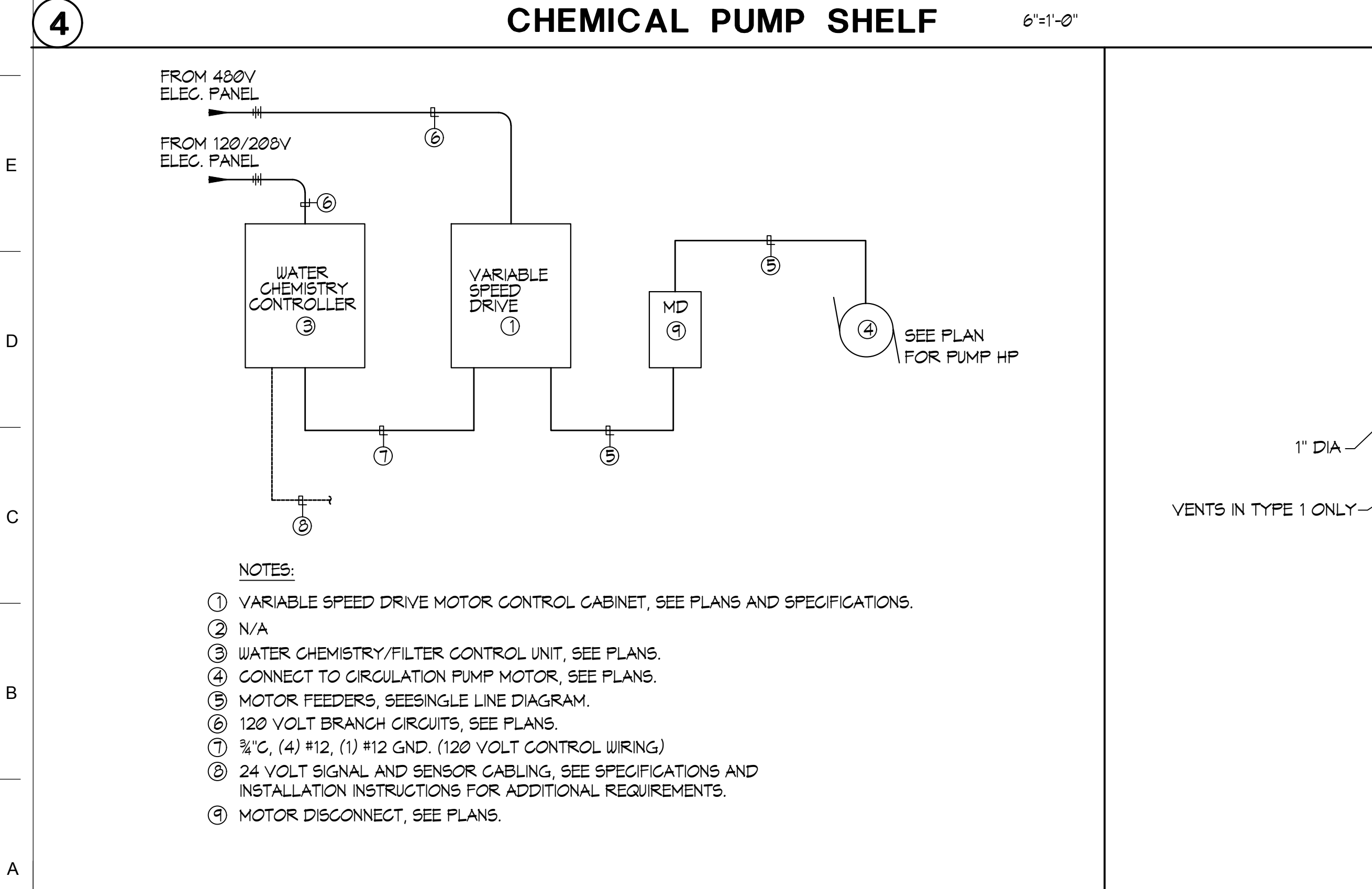
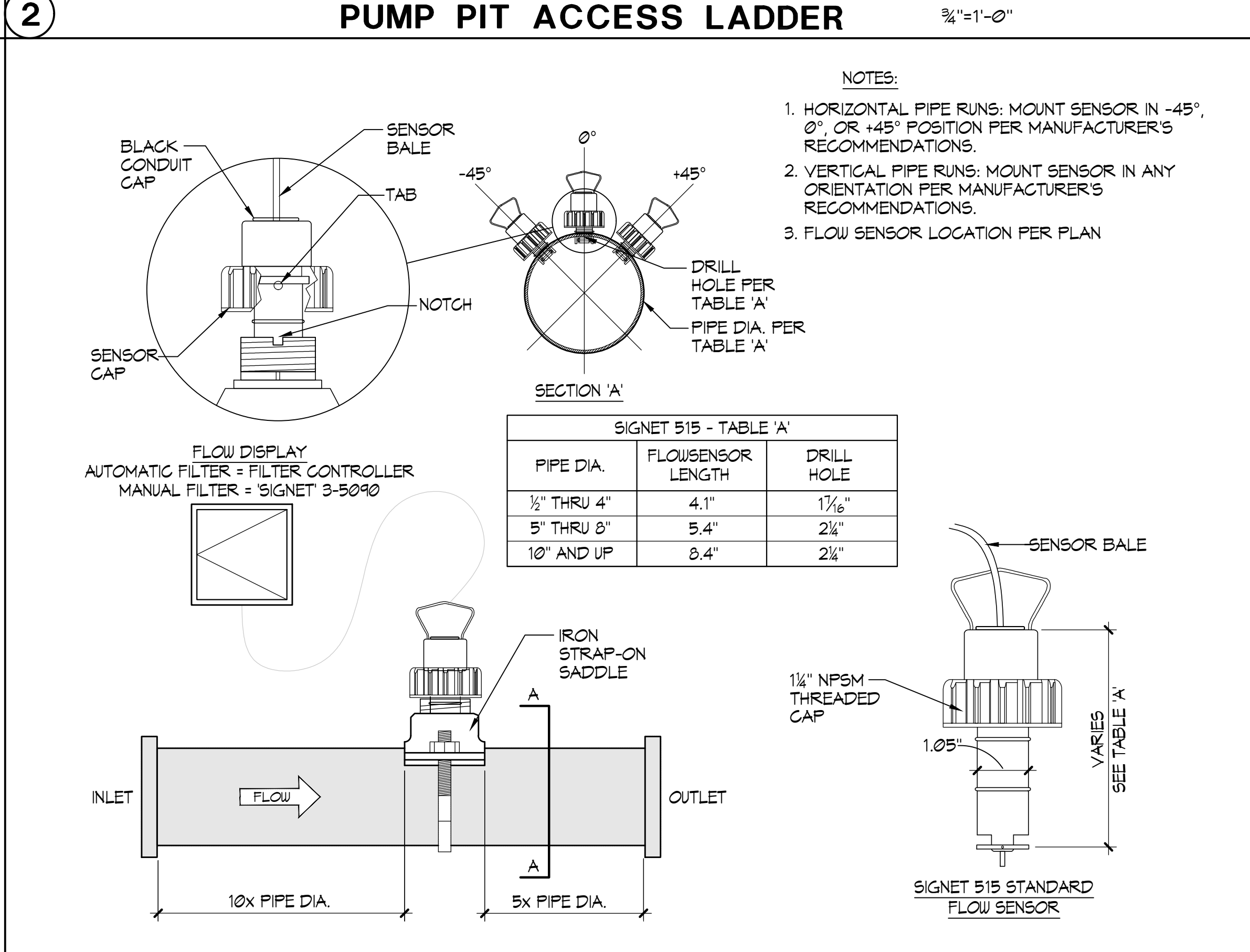
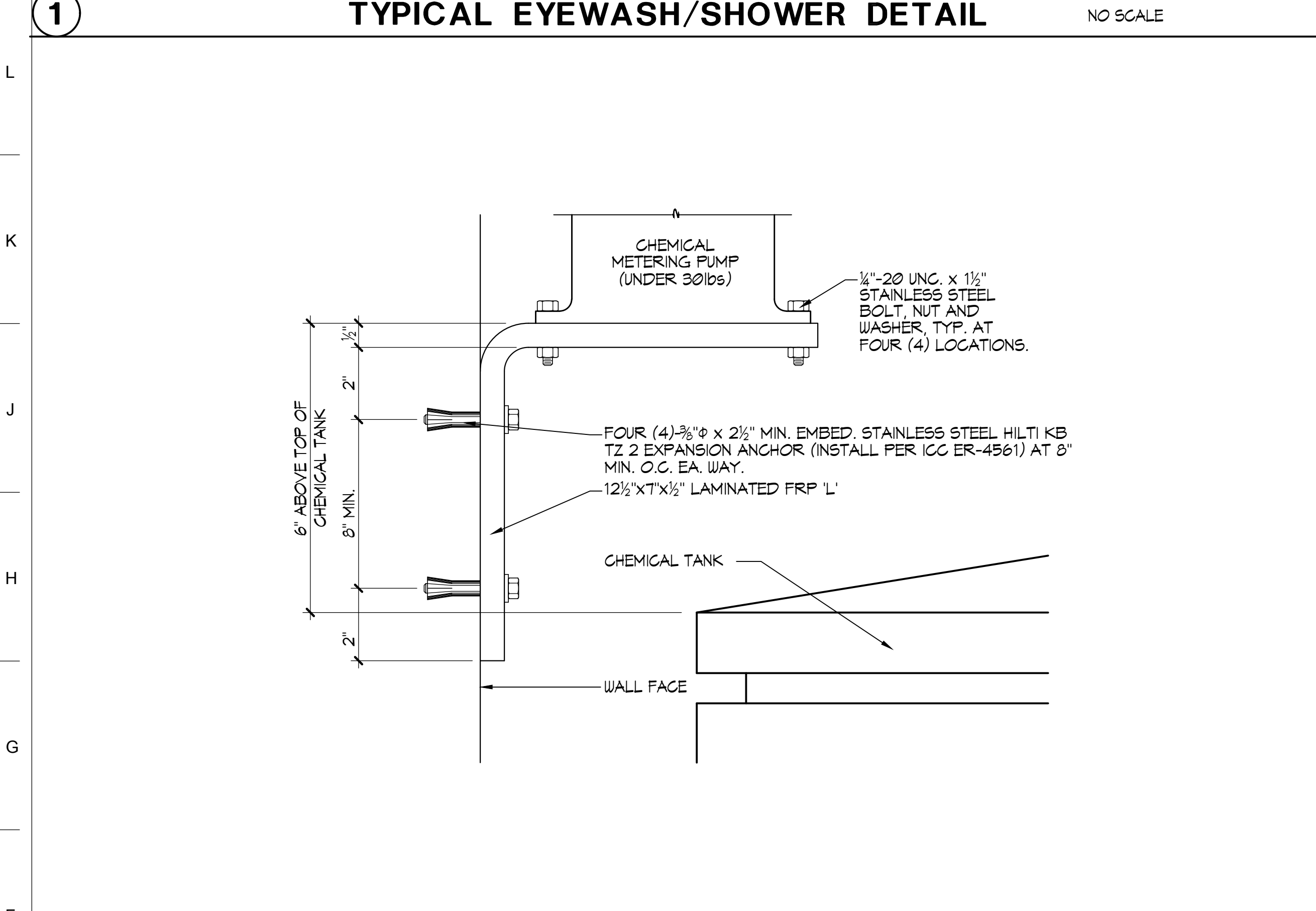
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Revision table with columns: No., Revision/Submission, Date, and a signature line for the architect.

MR-5



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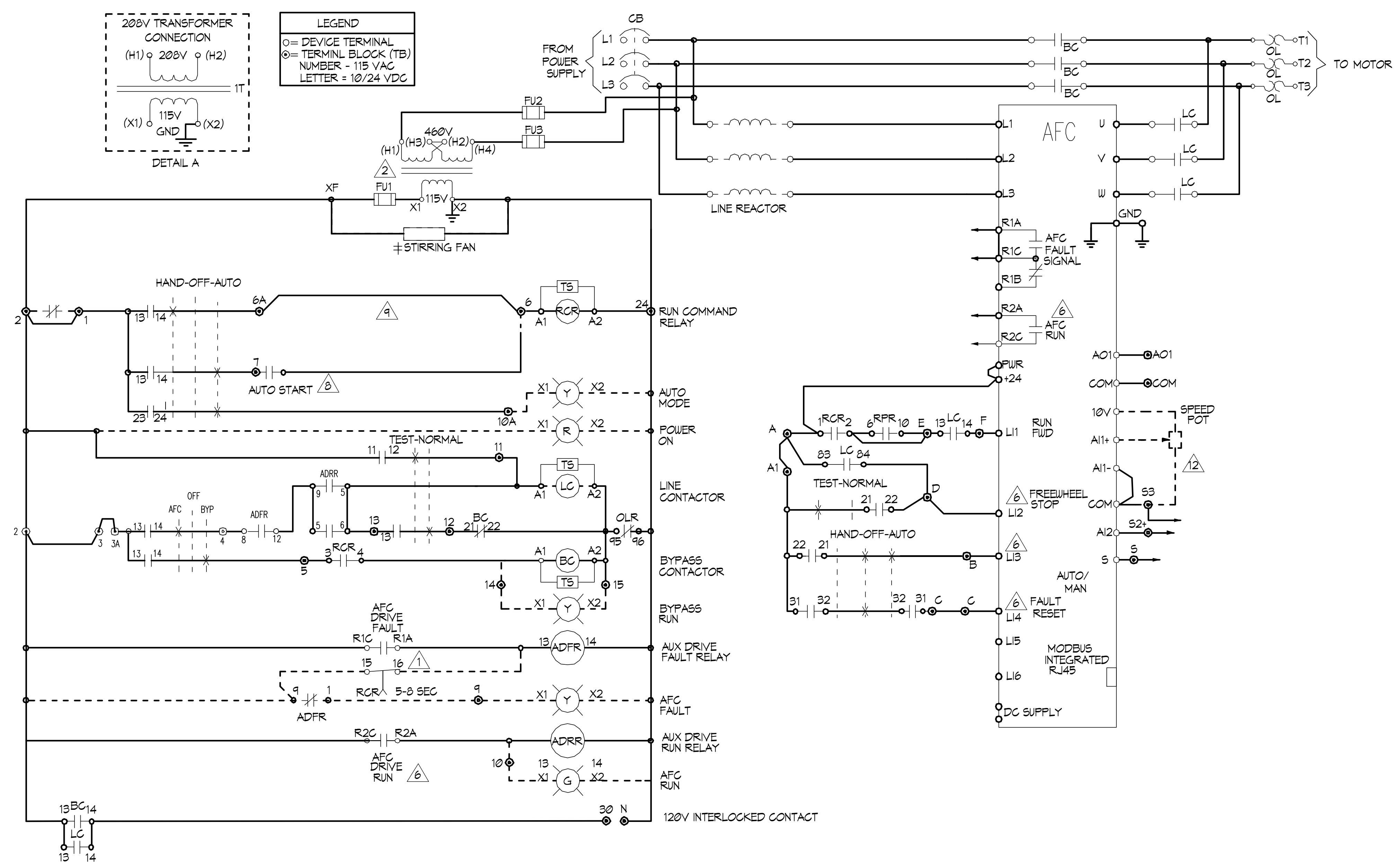
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Project Number: 2180 Checked By: GF
Date: 7/28/2022 Reviewed By: -

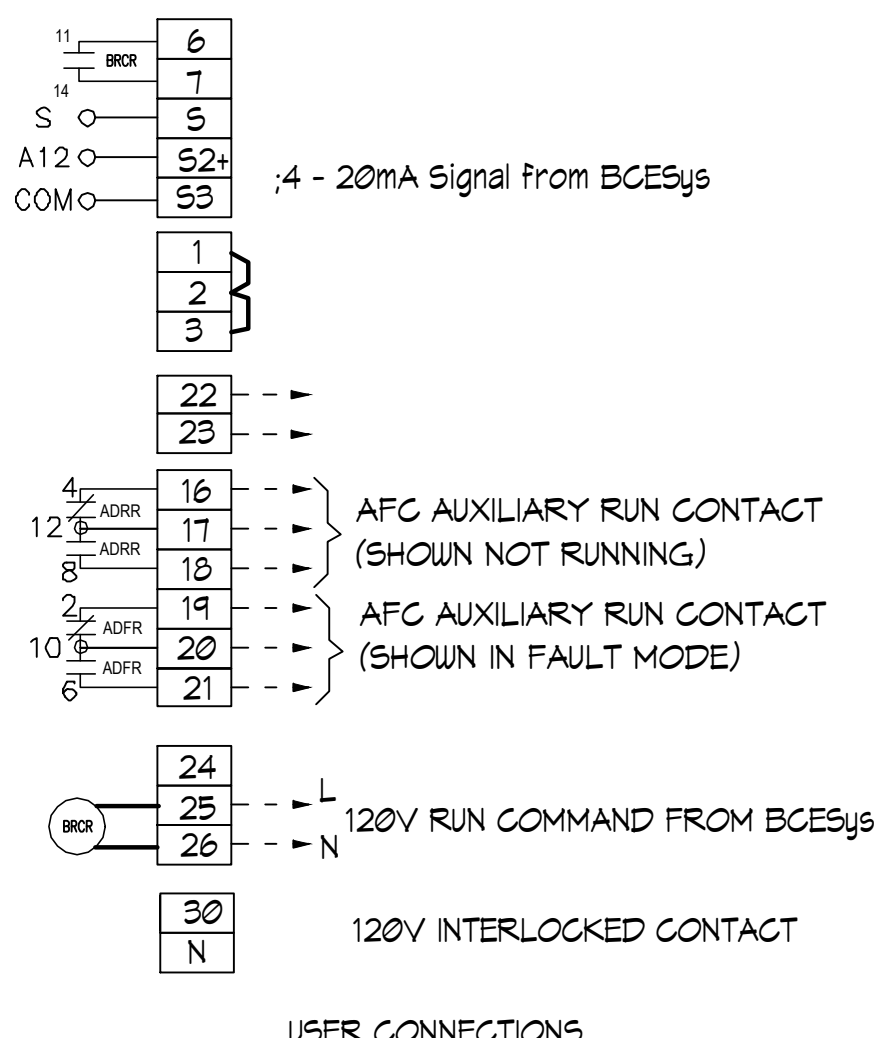
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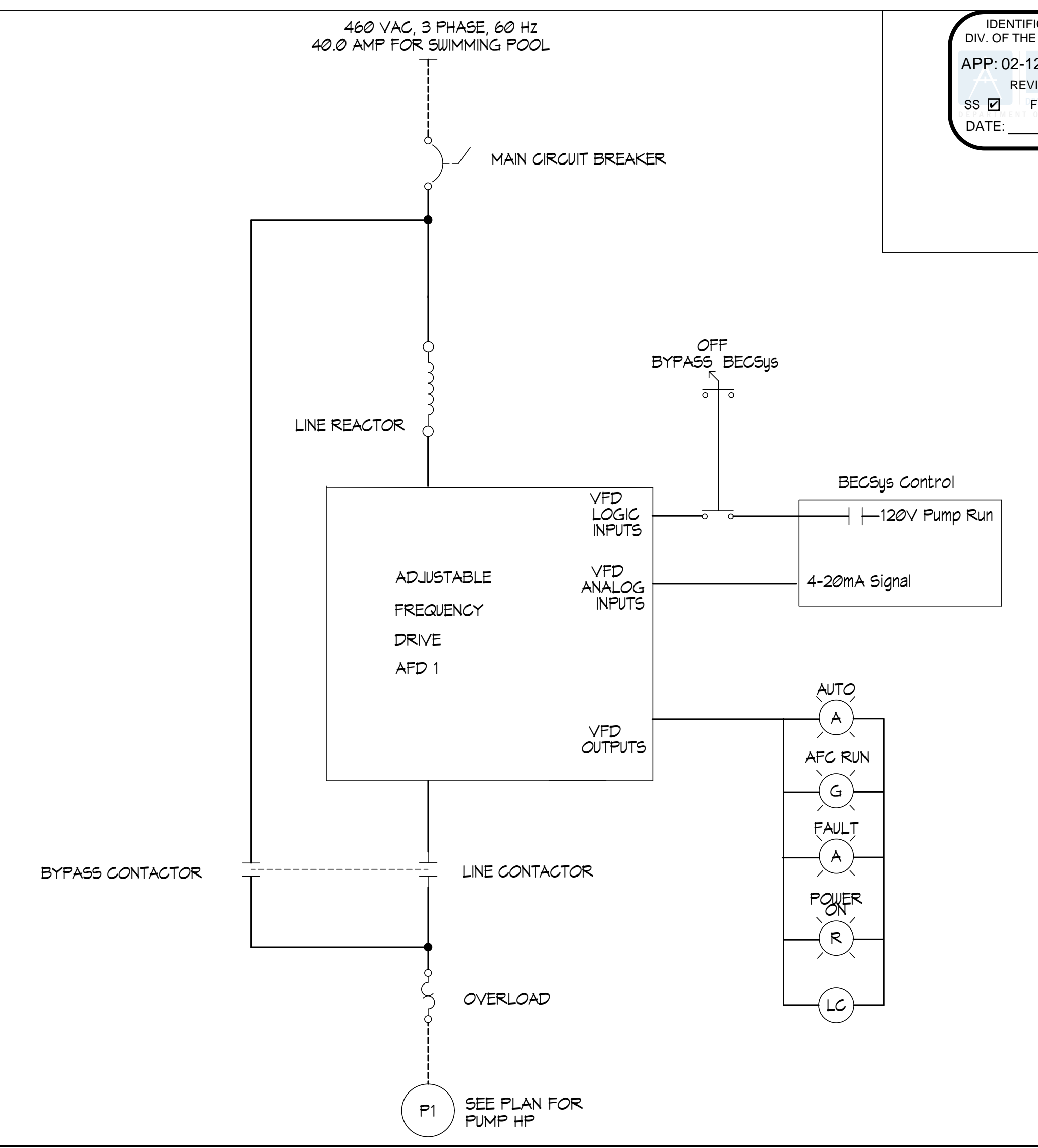
EKO-FLEX ATV61 FACTORY CONFIGURATION				
MENU	No	SUB-MENU	DESCRIPTION	CODE ADJ.
SIM	1.1	---	2/3 WIRE CONTROL	LOC 2C
SIM	1.1	---	PUMPS FANS	CFG PnP
SIM	1.1	---	STANDARD MOT. FREQ. (HZ)	BFF 60
SIM	1.1	---	ACCELERATION (SEC)	ACC 10
SIM	1.1	---	DECELERATION (SEC)	DEC 10
SIM	1.1	---	LOW SPEED (HZ)	LSP 3
SIM	1.3	---	SWITCHING FREQ. (HZ)	SCR 0
I-O	1.5	---	2 WIRE TYPE	tcl LEL
I-O	1.5	A12 CONFIG.	A12 MIN. VALUE (mA)	Cr12 4
I-O	1.5	R2 CONFIG.	R2 ASSIGN - DRIVE RUNNING	r2c run
CLL	1.6	---	REF. 1 CHAN	FR1 HMI
CLL	1.6	---	---	FR1 A1
CLL	1.6	---	PROFILE	CHCF SEP
FUN	1.7	STOP CONFIG.	FREEWHEEL STOP ASSIGN	rst L12
FUN	1.7	REFERENCE SWITCH	REF. 1B SWITCHING	rCb L13
FUN	1.7	REFERENCE SWITCH	REF. 1B CHAN	FR1b A12
FLI	1.8	FAULT RESET	FAULT RESET	rSF L14
FLI	1.8	CATCH ON THE FLY	CATCH ON THE FLY	FLR YES
FLI	1.8	OUTPUT PHASE LOSS	OUTPHASE LOSS	PDL NO
COM	1.9	FORCED LOCAL	FORCED LOCAL ASSIGN.	FLI L14

DESCRIPTION	TYPE 1	TYPE 12K	TYPE 3R
STIRRING FANS	10-100 HP 460V, 7.5-50HP 208/230V	10-100 HP 460V, 7.5-50HP 208/230V	NA
VENTILATION FAN	NA	NA	ALL HP
SPACE HEATER	NA	NA	ALL HP

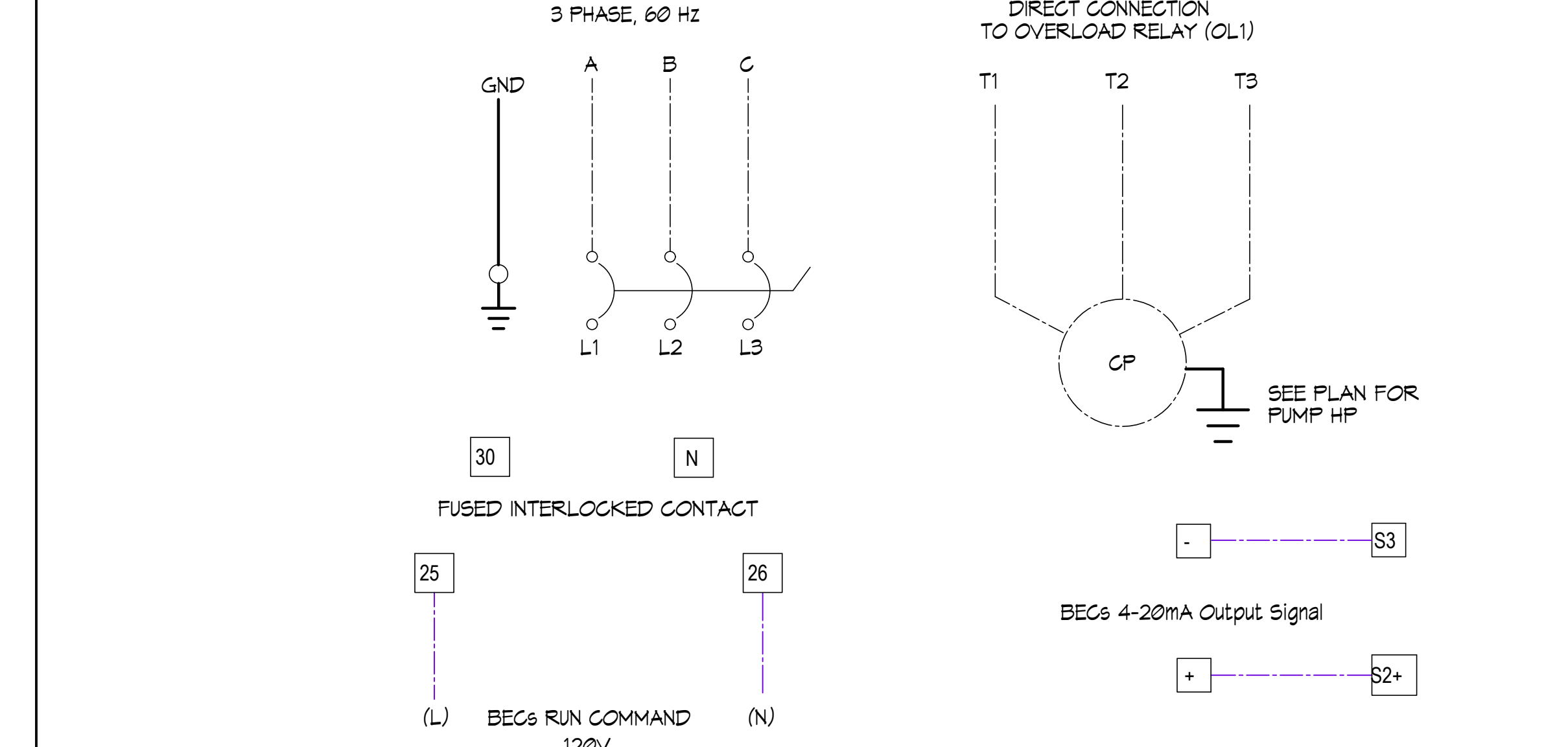


- NOTES:
- 1. RCR TIMED CONTACT USED ONLY IF LINE CONTACTOR IS SUPPLIED
 - 2. CONTROL TRANSFORMER SHOWN FOR 460V PRIMARY. FOR 230V PRIMARY, JUMPER H2-H3 IS USED
 - 3. PROGRAMMED I/O SEE CONTROLLER FUNCTION CONFIGURATION TABLE
 - 4. BECS RUN COMMAND RELAY (BRGR)
 - 5. JUMPER USED WHEN START-STOP PUSH BUTTONS NOT USED.

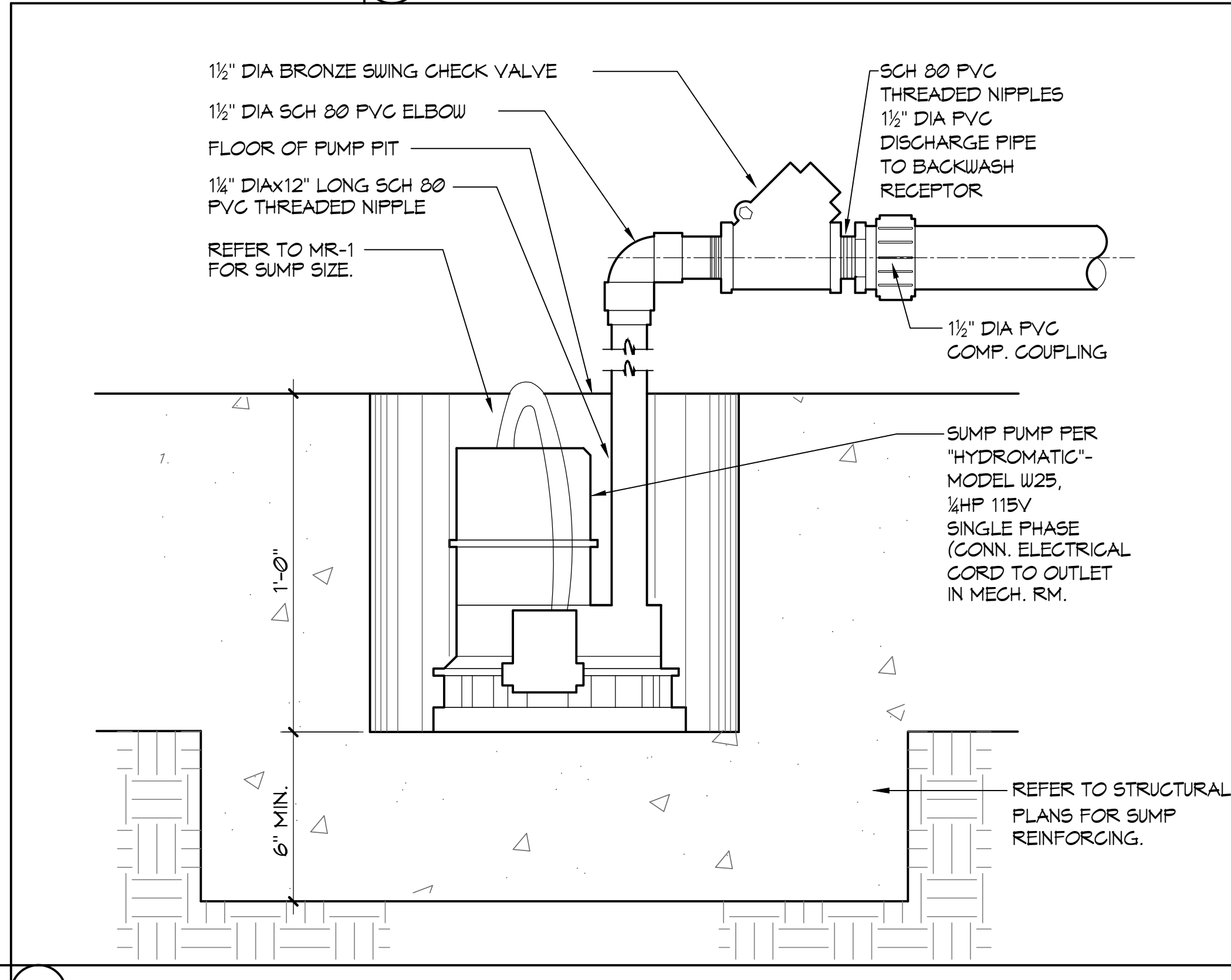
'SPCS' EKO-FLEX VARIABLE FREQUENCY DRIVE SYSTEM SCHEMATIC NO SCALE



'SPCS' EKO-FLEX SINGLE LINE DIAGRAM NO SCALE



'SPCS' EKO-FLEX FIELD CONNECTION DIAGRAM NO SCALE



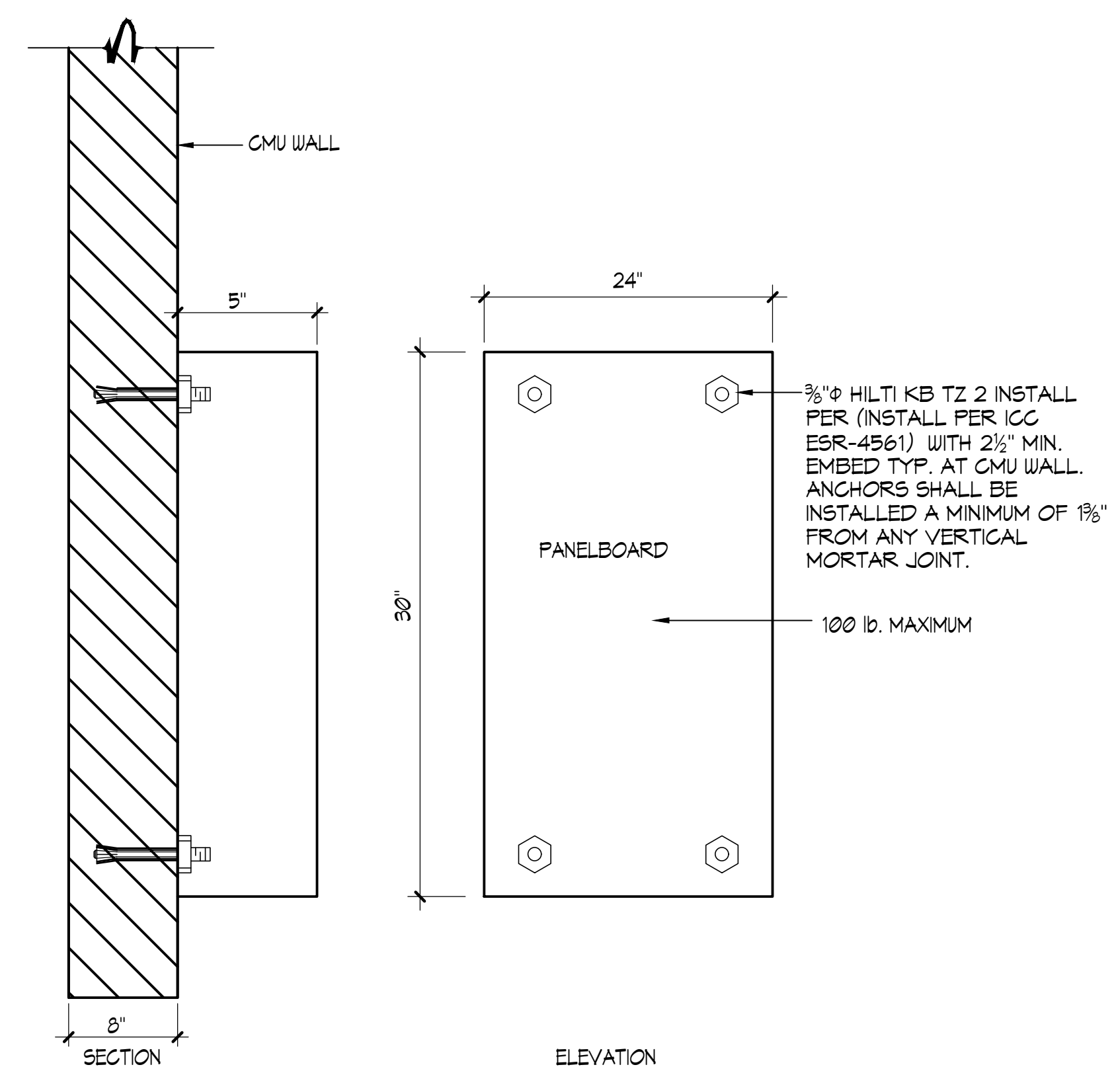
SUMP PUMP AT PUMP PIT NO SCALE



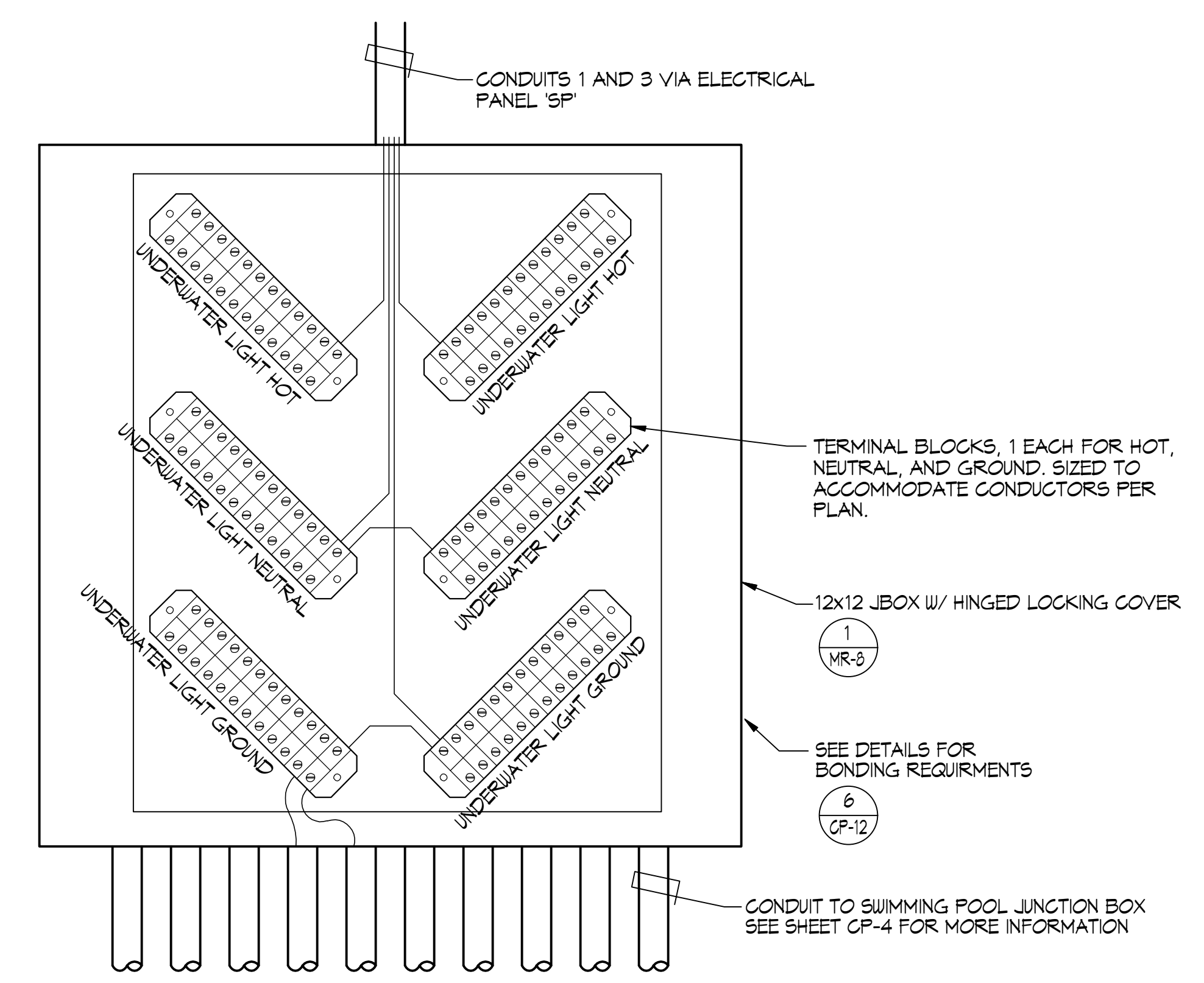
Mission Oak HS Aquatic Complex
Tulare Joint Union High School District
Tulare, CA 93274

DETAILS		
Drawing		
Architect		
No.	Revision/Submission	Date
Revision		
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Date: 7/28/2022	Reviewed By: -	

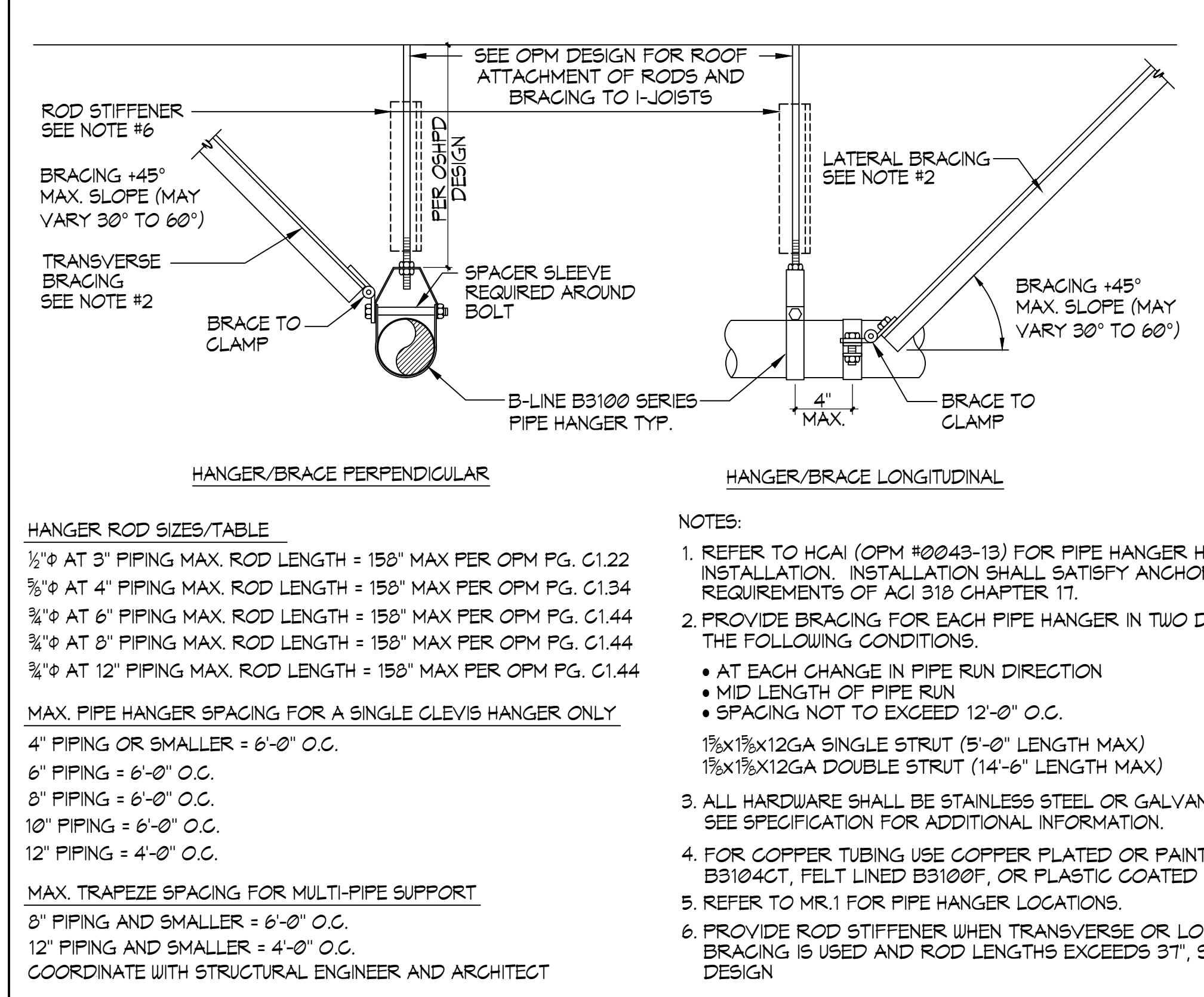
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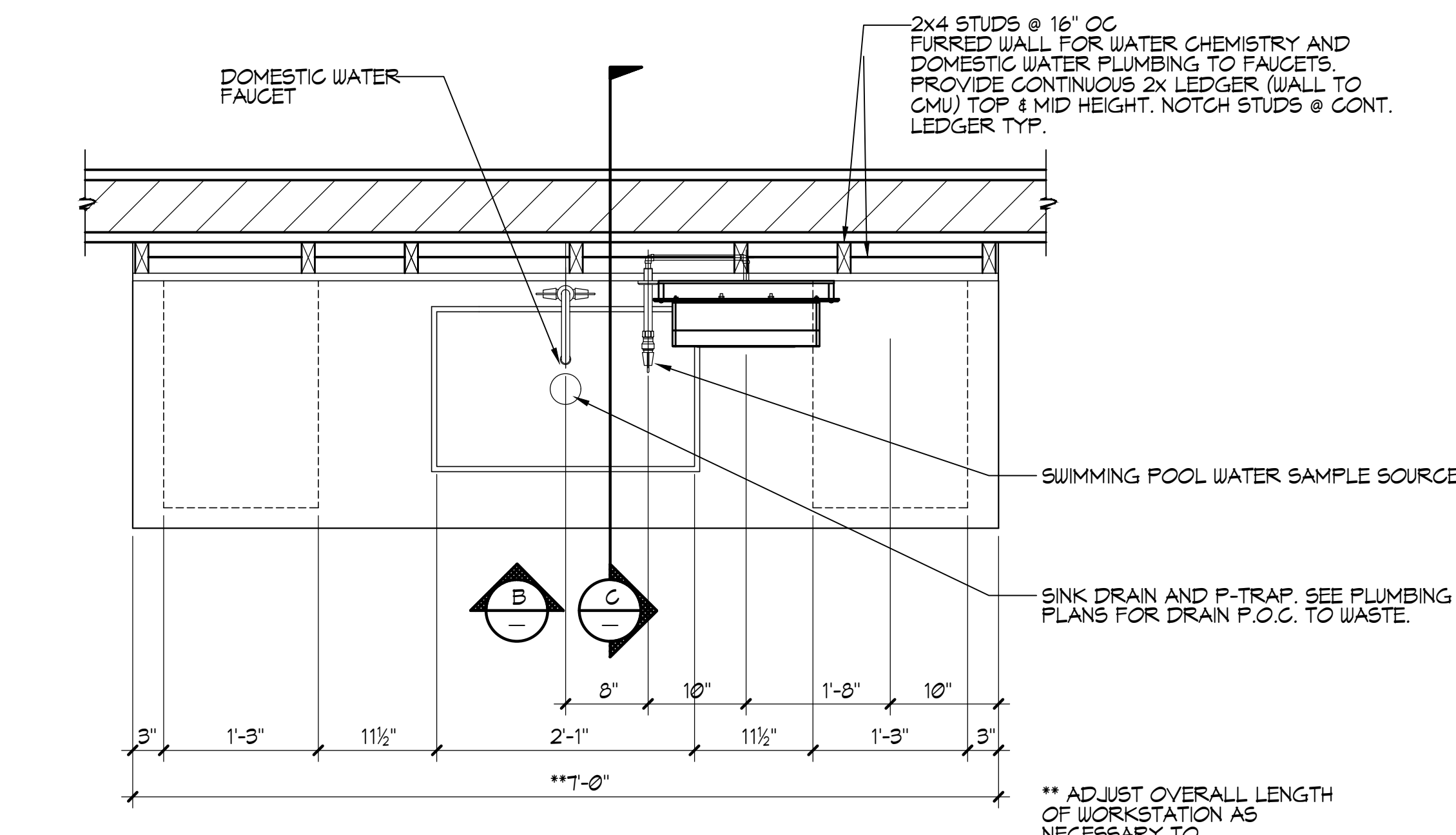
1 PANELBOARD MOUNTING DETAIL NO SCALE



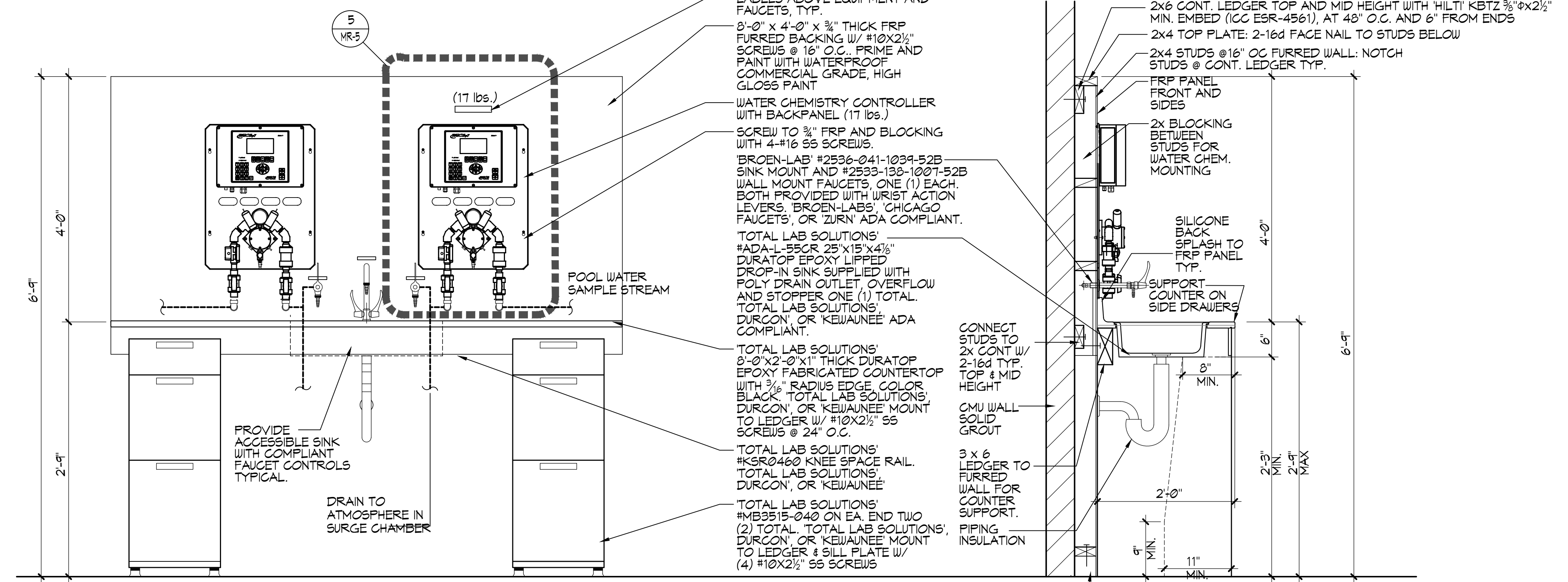
2 UNDERWATER LIGHT CONTACTOR PANEL NO SCALE



3 'UNISTRUT' PIPING HANGER / SUPPORT DETAILS NO SCALE

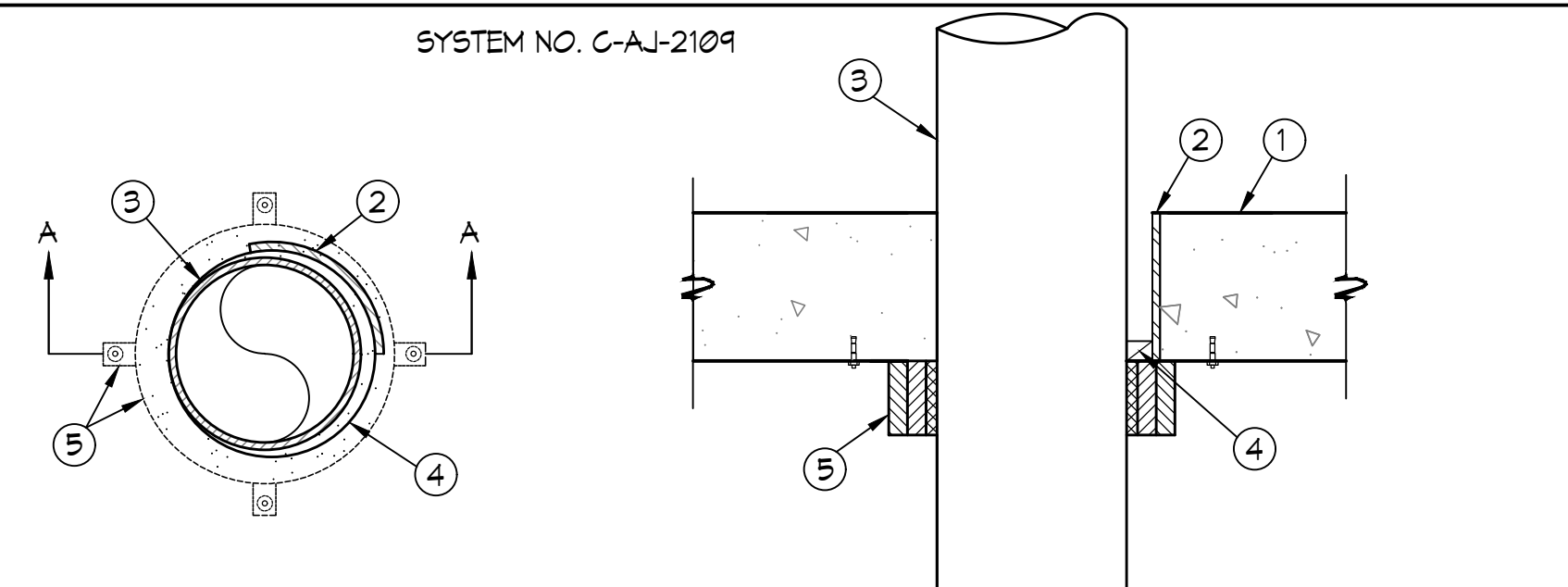


A PLAN VIEW



B FRONT ELEVATION **C** SIDE SECTION

POOL OPERATOR WORKSTATION DESK DETAIL



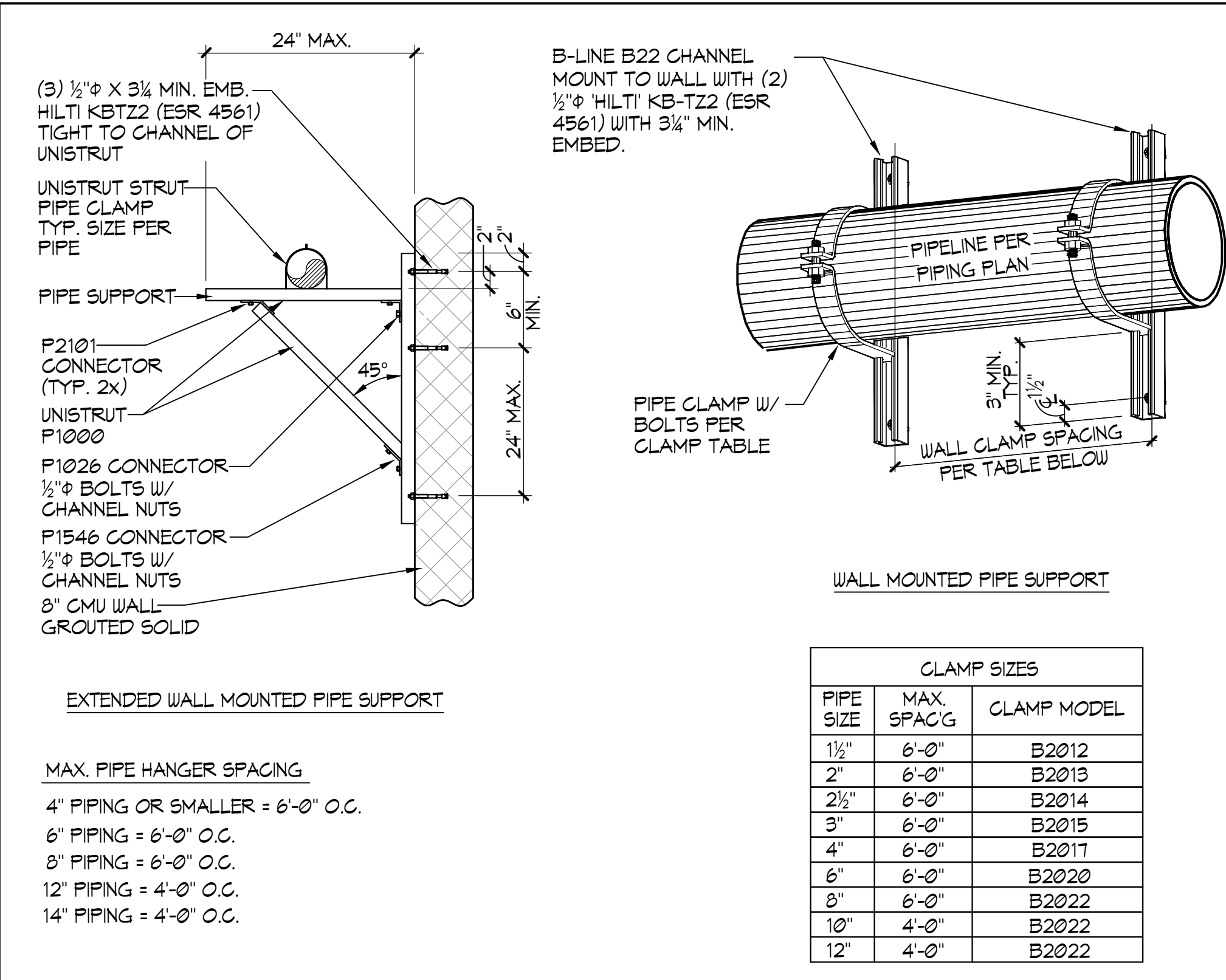
PVC PIPE	NOM. PIPE DIAM. IN	F RATING HR
PVC, CPVC	GREATER THAN 6	2
PVC, CPVC, ABS, FRPP	6 OR SMALLER	3

PVC PIPE	NOM. PIPE DIAM. IN	T RATING HR
PVC, CPVC, ABS, FRPP	1 1/2, 2, 3	2
PVC, CPVC, ABS, FRPP	4	3
PVC, CPVC, ABS, FRPP	6	3
PVC, CPVC	GREATER THAN 6	0
ABS **	6	0

+ INDICATES SOLID CORE ABS ONLY
 ** INDICATES CELLULAR CORE ABS ONLY

- FLOOR OR WALL ASSEMBLY - MIN. 4 1/2" THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 pcf) CONCRETE WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS. * MAX. DIAM. OF OPENING IS 12" SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
- STEEL SLEEVE - (OPTIONAL) - NOM. 12" DIAM SCHEDULE 40 (OR HEAVIER) STEEL PIPE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY. FLUSH WITH FLOOR OR WALL SURFACES A MAX. OF 3" ABOVE THE FLOOR. IF THE STEEL SLEEVE EXTENDS ABOVE THE FLOOR, THE T RATING OF THE FIRESTOP SYSTEM IS 0 HR AND A MIN. 1/4" ANNUAL SPACE IS REQUIRED BETWEEN THE THROUGH PENETRANT (ITEM 3) AND THE PERIPHERY OF THE OPENING. THE W RATING DOES NOT APPLY WHEN THE STEEL SLEEVE IS USED.
- THROUGH PENETRANTS - ONE NONMETALLIC PIPE TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. FOR MAX. 6" DIAM. PIPES, THE ANNUAL SPACE BETWEEN THE PIPE AND THE PERIPHERY OF OPENING SHALL BE MIN. 0" TO MAX. 1/2". FOR NOM. 8" AND 10" DIAM. PIPES THE ANNUAL SPACE BETWEEN THE PIPE AND THE PERIPHERY OF OPENING SHALL BE MIN. 0" TO MAX. 1/4". IF THE STEEL SLEEVE EXTENDS ABOVE THE FLOOR (ITEM 2), A MIN. 1/4" ANNUAL SPACE IS REQUIRED BETWEEN THE THROUGH PENETRANT (ITEM 3) AND THE PERIPHERY OF THE OPENING. PIPE TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. FOR SYSTEMS WITH A W RATING, THE MAX. ANNUAL SPACE IS 1/2". THE T RATINGS ARE DEPENDENT ON THE SIZE AND/OR TYPE OF PIPE AS SHOWN IN THE TABLE BELOW. THE FOLLOWING TYPES AND SIZES OF NONMETALLIC PIPES MAY BE USED:
 - POLYVINYL CHLORIDE PIPE (PVC) - NOM. 10" DIAM. (OR SMALLER) SCHEDULE 40 SOLID CORE OR CELLULAR CORE PVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEMS. FOR SYSTEMS WITH A W RATING, THE NOM. DIAM. OF PIPE SHALL NOT EXCEED 8".
 - CHLORINATED POLYVINYL CHLORIDE (CPVC) PIPE - NOM. 10" DIAM. (OR SMALLER) SDR13.5 CPVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) PIPING SYSTEMS. FOR SYSTEMS WITH A W RATING, THE NOM. DIAM. OF PIPE SHALL NOT EXCEED 6".
 - ACRYLONITRILE BUTADIENE STYRENE (ABS) PIPE - NOM. 6" DIAM. (OR SMALLER) SCHEDULE 40 SOLID-CORE OR CELLULAR CORE ABS PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEM.
 - FLAME RESISTANT POLYPROPYLENE (FRPP) PIPE - NOM. 6" DIAM. (OR SMALLER) SCHEDULE 40 FRPP PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEMS.

5 PIPE PENETRATION THRU 1-HR OR 2-HR WALL DETAIL NO SCALE



PIPE SIZE	MAX. SPACING	CLAMP MODEL
1 1/2"	6'-0"	B2012
2"	6'-0"	B2013
2 1/2"	6'-0"	B2014
3"	6'-0"	B2015
4"	6'-0"	B2017
6"	6'-0"	B2020
8"	6'-0"	B2022
10"	4'-0"	B2022
12"	4'-0"	B2022

6 WALL MOUNTED PIPE SUPPORT NO SCALE



Mission Oak HS Aquatic Complex
Tulare Joint Union High School District
Tulare, CA 93274

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Scale: PER PLAN Drawn By: AP
 Project Number: 2180 Checked By: GF
 Date: 7/28/2022 Reviewed By: -

MR-8

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 = 94 MPH (Exposure C); Vasd = 73 MPH (Exposure C)
 - Risk Category = II
 - See Pole Foundation Schedule for maximum pole wind forces.

Seismic Design Data:

- Ie = 1.0
- Risk Category = II (Self Supporting Poles)
- Ss = 0.587
- Si = 0.229
- Site Class = D
- Ss = 0.521
- Su = 0.327
- Seismic Design Category = D
- Basic Seismic-Force-Resisting System = Non-Building Structure, not similar to buildings
- Cs = 0.141 (STRENGTH LEVEL)
- R = 1.5
- Ω = 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 4-33B, 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 5'-0" min. from adjacent structures below 50'-0" A.G.L., unless noted otherwise.

CONSTRUCTION SET

LIGHT POLE FOUNDATIONS

Reference geotechnical report prepared by Technicon Engineering Services, Inc., Dated May 17, 2022; Project no. 220239.001.

Allowable Vertical soil Capacity - 70DL² (Skin Friction - D=pier diameter (FT), L=embedment length (FT)).

Allowable Lateral Bearing capacity: 175 PSF/FT to maximum 2,100 PSF (Values may be increased 1/2 for wind and seismic loading).

A representative of Technicon Engineering Services, Inc. should be available at the time of the foundation installation to verify the soil design parameters and to provide assistance if any problems arise in foundation installation.

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 reanalyzed 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 pier.

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 caving 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 3,000 psi. Batch plant inspection not required.

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

Use Type II/V Portland cement or as directed by the Geotechnical Engineer.

Portland Cement ASTM C-150.

Aggregate ASTM C-33. 1" maximum aggregate size. 3/8" max agg. size acceptable where pump mixes are used at unreinforced concrete backfill. 3/8" 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 freefall 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 D1.1-15 specification for GMAW fillet utilizing E70S-X filler metal or SAW fillet utilizing F7XX-EXXX or FBXX-EXXX 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 hot 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 G/MD1.

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(a). Batch Plant Inspection Not Required - 1705A.3.3.2 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 - 1704A2.5 Welding - 1705A.2.5, DSA IR 17-3 and AWS D1.1. 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 CWI 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

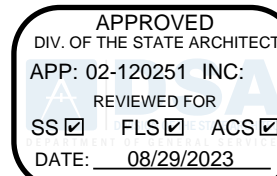
MT1 NOTES, FOUNDATION DETAIL

MS1 70A POLE DETAILS

MD1 ATTACHMENT DETAILS

MD2 ATTACHMENT DETAILS

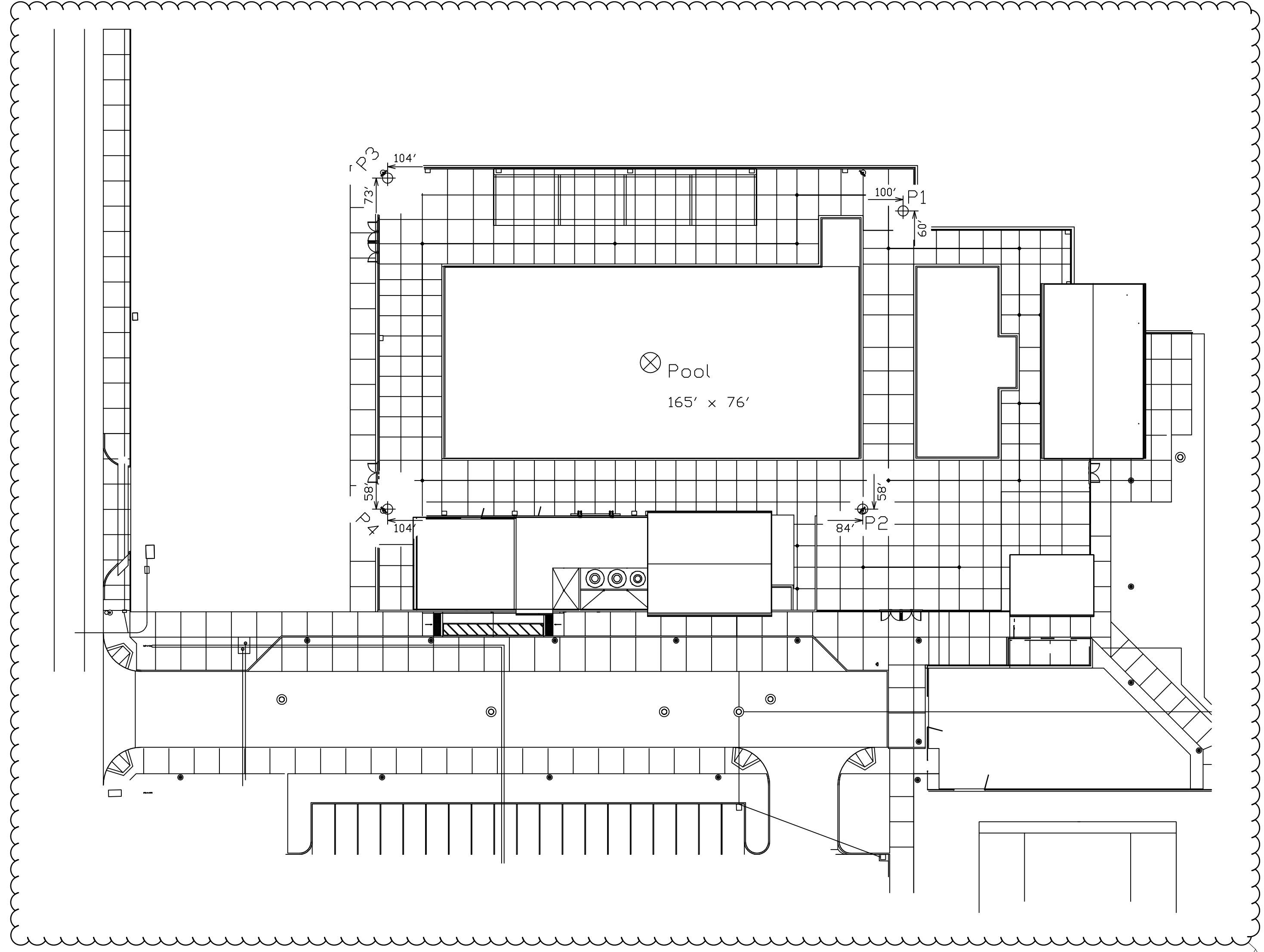
MD3 ATTACHMENT DETAILS



Mission Oak H.S. Pool
FIELD LIGHTING
Tulare, CA

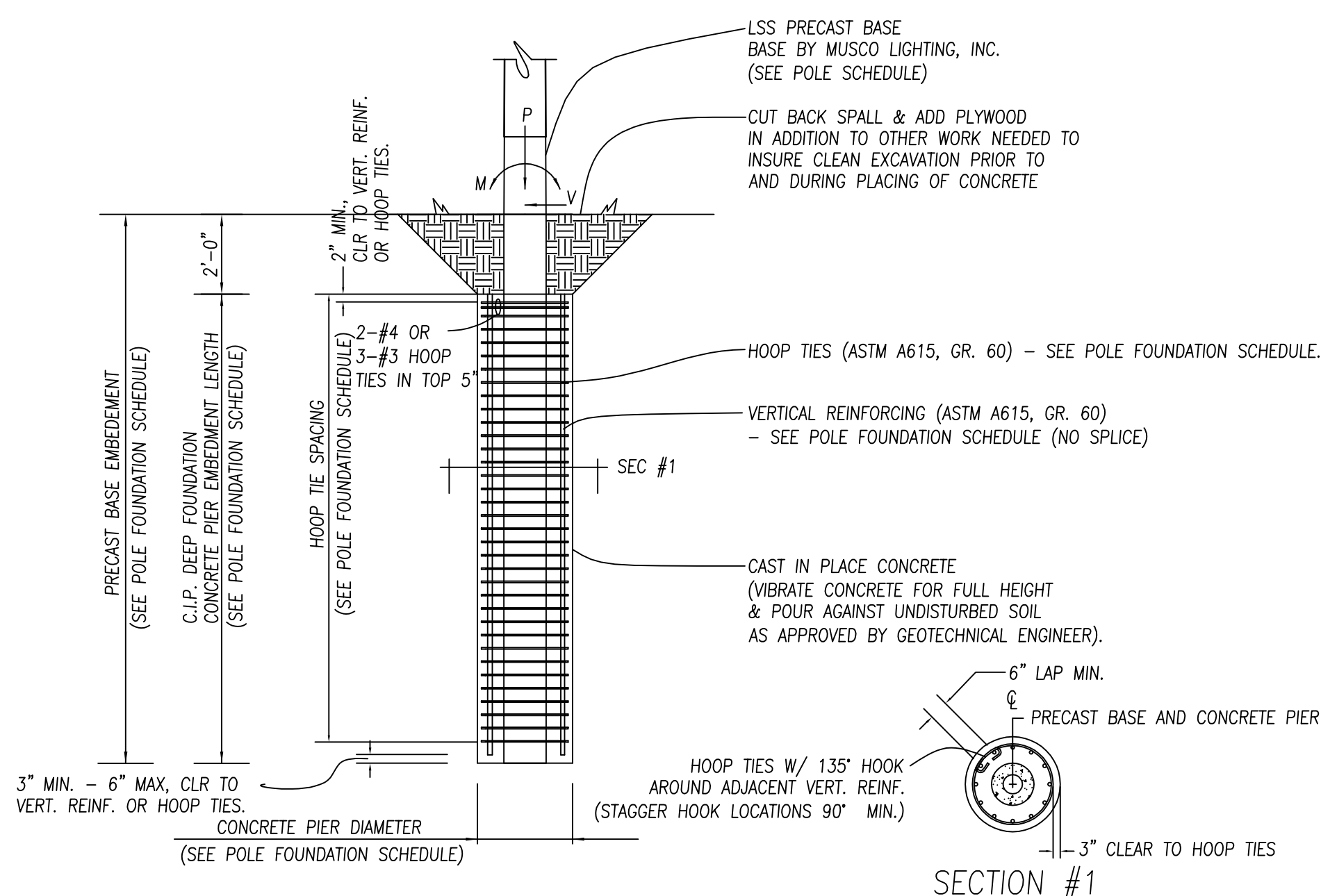


MUSCO Lighting
CORPORATE OFFICE:
P.O. Box 808
100 1st Avenue West
Oskaloosa, Iowa 52577
800/825-6020



POLE ORIENTATION PLAN
N.T.S.

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



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

POLE TYPE-# OF FIXTURES (MAX) (LSS=LIGHT STRUCTURE)	MARK (SEE POLE ORIENTATION PLAN)	WIND OR SEISMIC (SEISMIC FORCE 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**	DIAMETER INCHES	EMBEDMENT FEET (SEE NOTE BELOW)	VERTICAL REINFORCING (ASTM A615, GR 60)		HOOP TIE SIZE & SPACING (ASTM A615, GR 60)
LSS70A-5	P1-P4	SEISMIC	19,200	398	2,685	36"	10'-0"	8-#8	#4 @ 6" O.C.	12'-0"
		WIND	52,800	1,148	1,610					

*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.
Note: Final Embedment to be determined in the field by the Geotechnical Engineer of Record

DRAWING TITLE: NOTES, FOUNDATION DETAIL
SCALE: SEE PLAN
DRAWING NO. MT1
1 OF 5

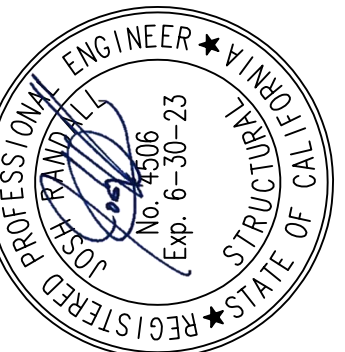
PROJECT NO. 219340
DATE: 06/27/2022
DRAWN BY: Bryce Miles

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BRANDING TITLE: POLE DETAIL

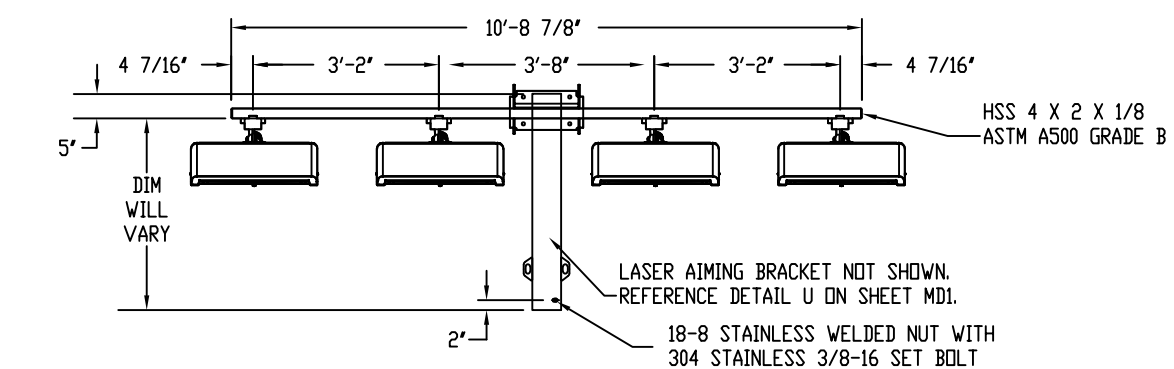
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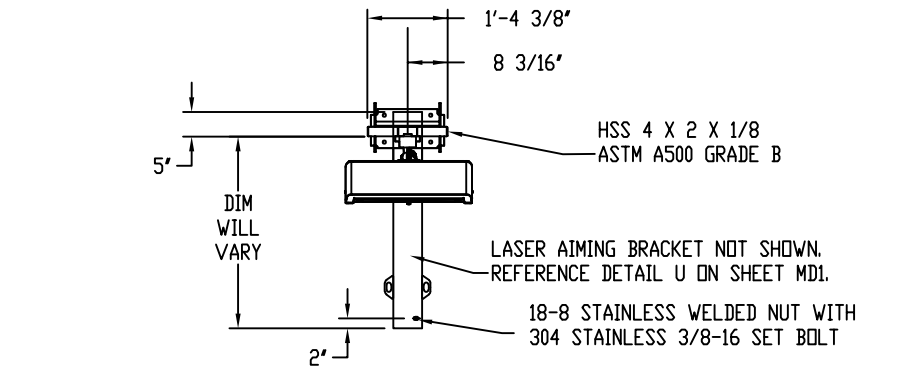
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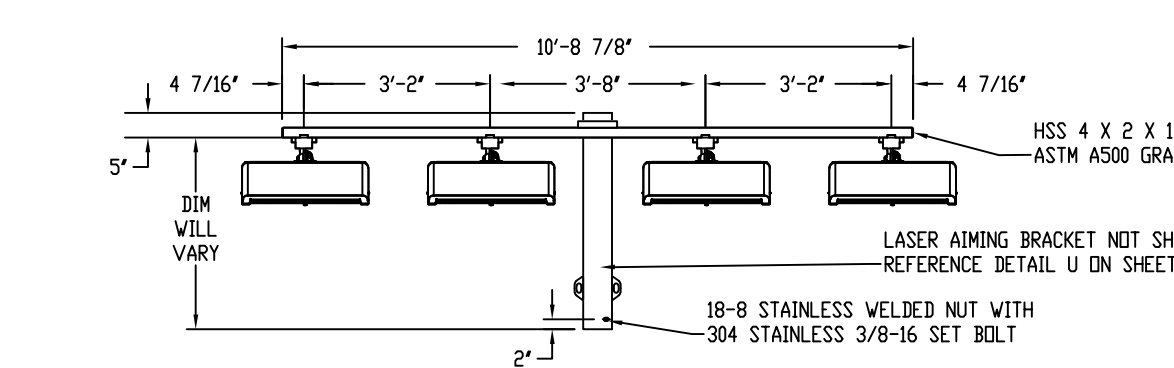
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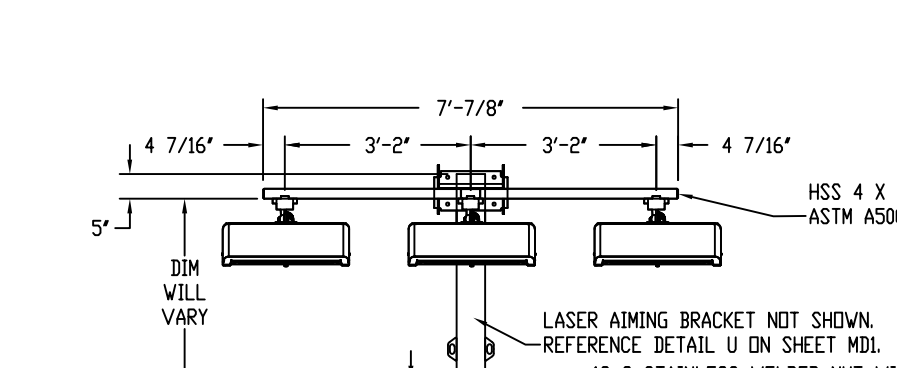
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N.T.S. DSA-B4C-WEDGE4_A



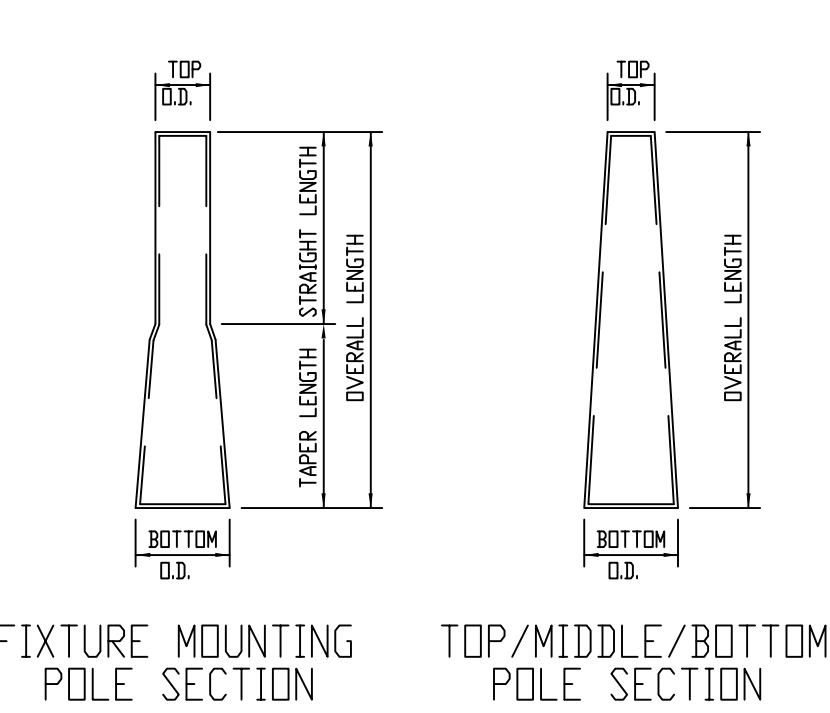
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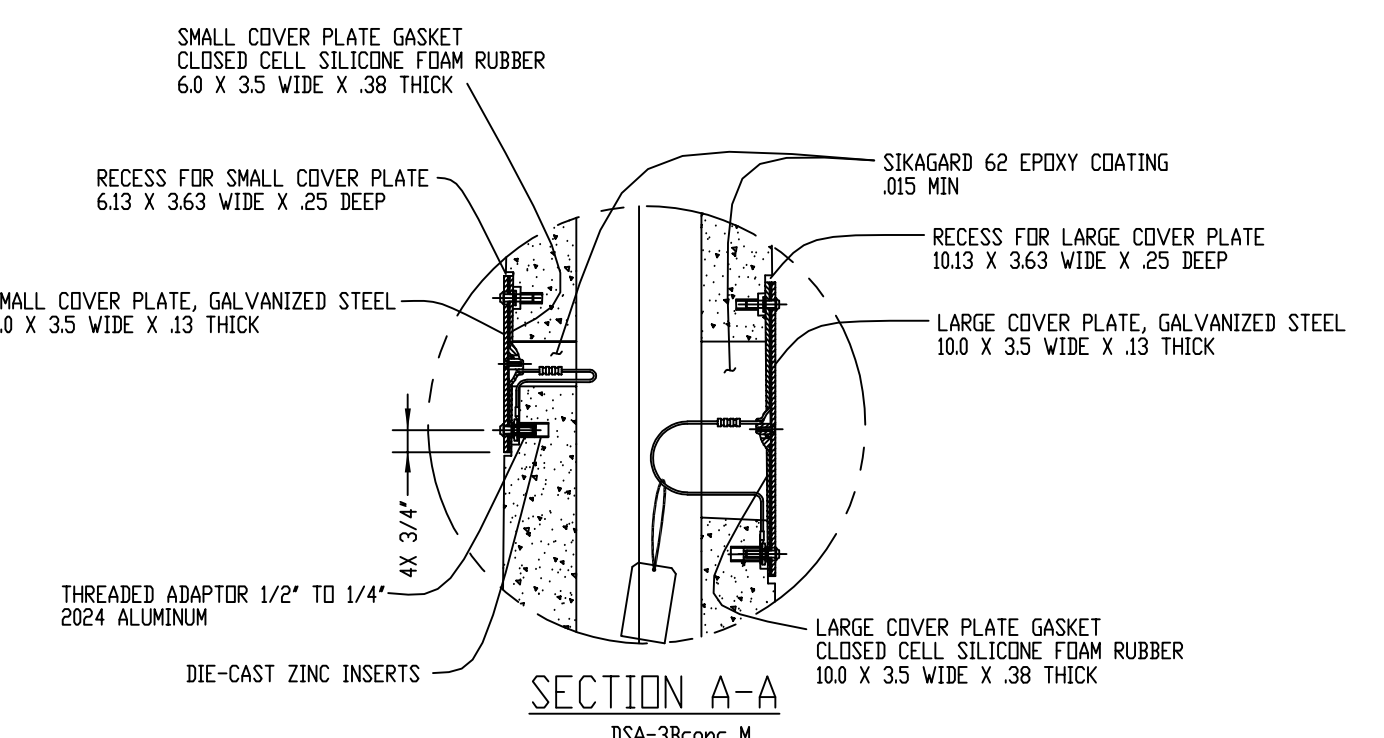
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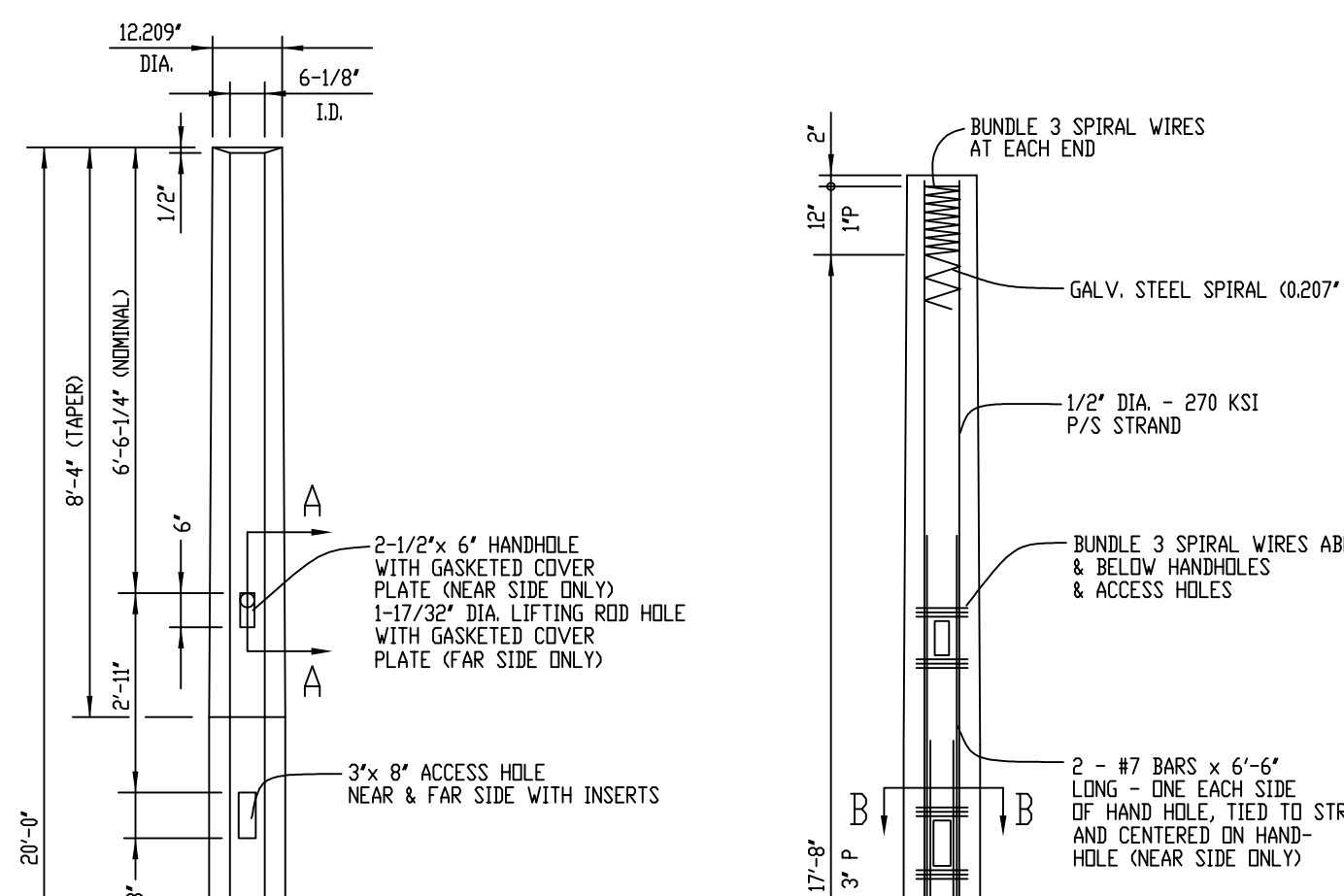
E 3 FIXTURE CONFIGURATION
N.T.S. DSA-B3C-WEDGE4_A



FIXTURE MOUNTING POLE SECTION
TOP/MIDDLE/BOTTOM POLE SECTION
POLE ORIENTATION

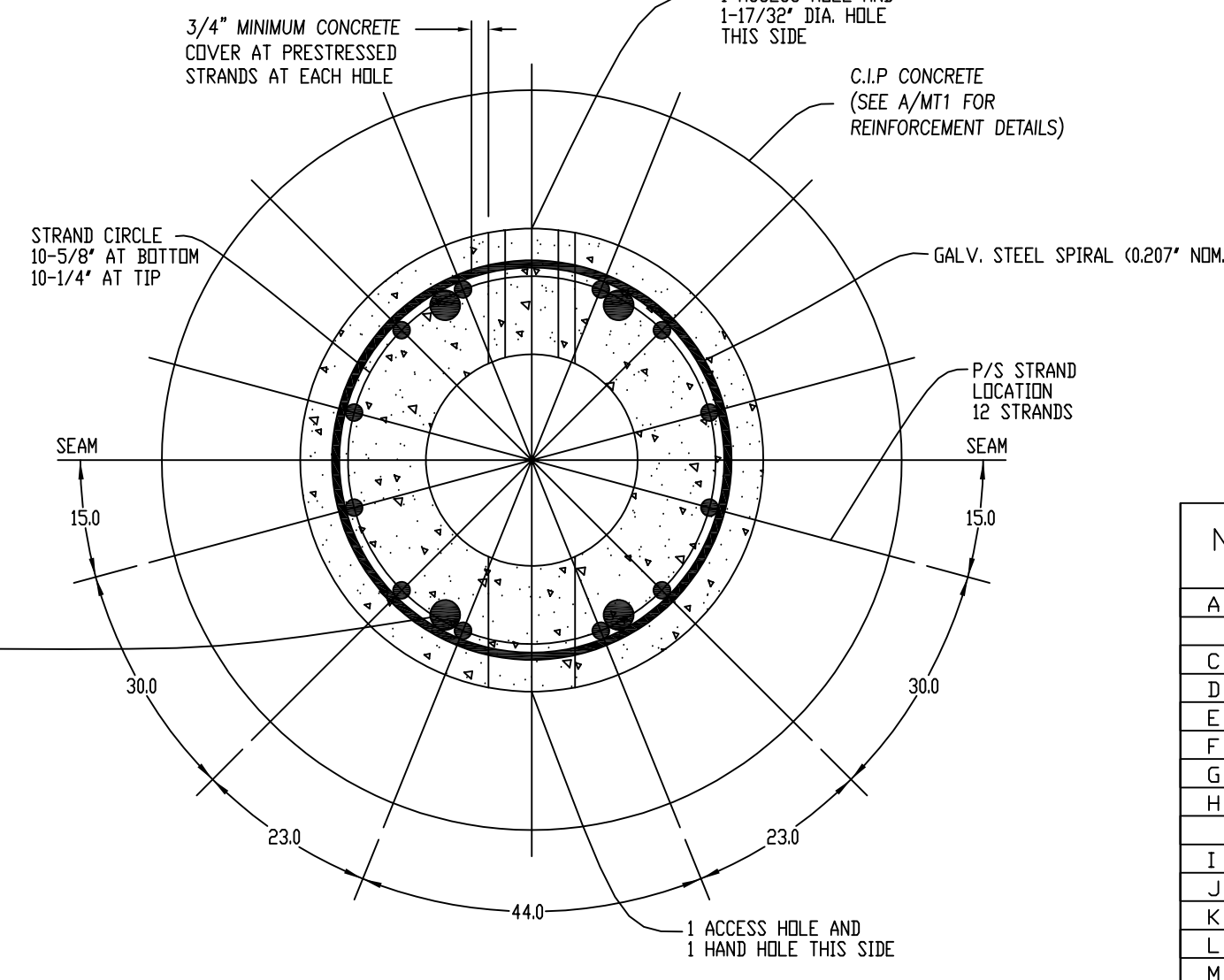


SECTION A-A
DSA-3Bconc_M



SPECIFICATIONS	
BASE LENGTH	20'-0"
DESIGN MOMENT CAPACITY	88 FT-K
SHIPPING WEIGHT	2690 LBS
PRODUCTION WEIGHT	2470 LBS
VOLUME OF CONCRETE	0.62 CU YD
28 DAY CONC. STRENGTH	9,500 PSI
NUMBER OF STRANDS	12
INITIAL PULL PER STRAND	26.5 KIPS
TIP WALL THICKNESS	3"
BUTT WALL THICKNESS	3-5/8"
PRESTRESS LOSS/STRAND	4.8 KIPS
FINAL STRAND FORCE	21.7 KIPS
RELEASE STRENGTH	5,500 PSI

- NOTES:
- MATERIAL SPECIFICATIONS:
PRESTRESS STRANDS: ASTM A416 GR 270 (LOW RELAXATION)
MILD REINFORCING: ASTM A615 GR 60
SPIRAL WIRE: ASTM A1064 Fy=70 KSI
CEMENT: ASTM C150, TYPE III
AGGREGATE: ASTM C33
(SIZE NOT TO EXCEED 3/4")
 - EPoxy COAT ENDS OF BASE (T AND B) WITH SIKAGARD 62
 - MARK - DATE, TYPE & 'BOTTOM' NEAR BOTTOM OF BASE.
 - STRANDS TO BE PRETENSIONED - (BONDED FULL LENGTH)
 - "P" = PITCH OF SPIRALS
 - EPoxy COAT INSIDE SURFACES AT EACH HOLE WITH SIKAGARD 62 .015 MIN.



PLAN SECTION B-B

A TYPE 3B PRECAST BASE DETAIL
N.T.S. DSA-3Bconc_M

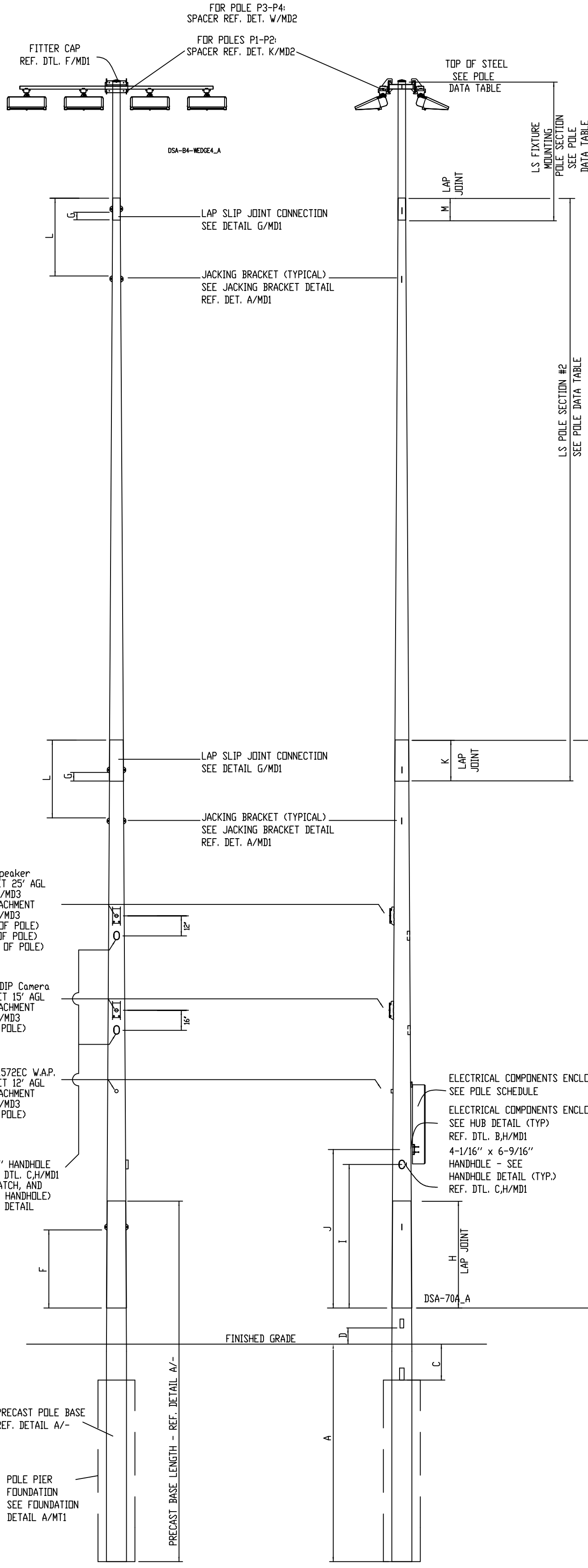
NOTATION	DIMENSION
A	12'-0"
C	2'-0" NOM.
D	1'-0" NOM.
E	2'-0 5/8" NOM.
F	4'-4" NOM.
G	1'-6"
H	5'-11 3/8" NOM. 5'-3 3/4" MIN.
I	7'-7 1/2" NOM.
J	8'-9 1/2" NOM.
K	3'-7 1/4" NOM. 1'-10 1/4" MIN.
L	4'-7" NOM.
M	1'-8" NOM. 11 1/2" MIN.

1. CONTAINS COMBINED EPA OF LIGHT FIXTURES, CROSS ARM AND MISCELLANEOUS FIXTURE MOUNTING APPARATUS.
FIXTURE WEIGHT 520 LBS. THIS INCLUDES THE WEIGHT OF FIXTURE, CROSS ARM & MISC. MOUNTING APPARATUS.
ELECTRICAL BALLAST BOX WEIGHT 20 LBS PER FIXTURE SERVICED.

POLE SCHEDULE						
SITE LOCATION	POLE MARK	REFERENCE LOCATION	POLE TYPE	FIXTURE CONFIGURATION	TOTAL EPA	BALLAST BOX REQUIREMENTS
SEE SITE PLAN (BY OTHERS)	P4 P1-P2 P3	SEE POLE ORIENTATION PLAN	LSS70A	4/1 - SEE DETAIL B,C/M/SI 4 - SEE DETAIL B/M/SI 3/1 - SEE DETAIL E,C/M/SI	14.3	SEE DETAIL O, P/M/SI SEE DETAIL O/M/SI SEE DETAIL O/M/SI

POLE DATA TABLE											
POLE TYPE	PIECE MARK	MAX NUMBER OF X-ARMS	POLE SECTION	TOP O.D. (INCHES)	BTM O.D. (INCHES)	OVERALL LENGTH	STRAIGHT LENGTH	TAPER LENGTH	THICKNESS (INCHES)	TOP OF STEEL NOMINAL	ASTM REFERENCE
LSS70A	LS-2000	2	FIXTURE MOUNTING	4.750'	5.081'	5'-3"	3'-7"	1'-8"	.120	70'-1 3/4"	A513 (Fy=38ksi)
	MP-1TQSA		#2	4.596'	9.630'	35'-11 1/2"	-----	35'-11 1/2"	.120	-----	A595A (Fy=55 ksi) or A572, Gr 55 or 65
	MP-3BT-D		#1	8.886'	13.400'	32'-2 7/8"	-----	32'-2 7/8"	.179	-----	A595A (Fy=55 ksi) or A572, Gr 55 or 65
	MP-3BDSA		PRECAST BASE								

FOR PRECAST MEMBER PROPERTIES SEE PRECAST BASE DETAIL A/-
DSA-7M0T_J

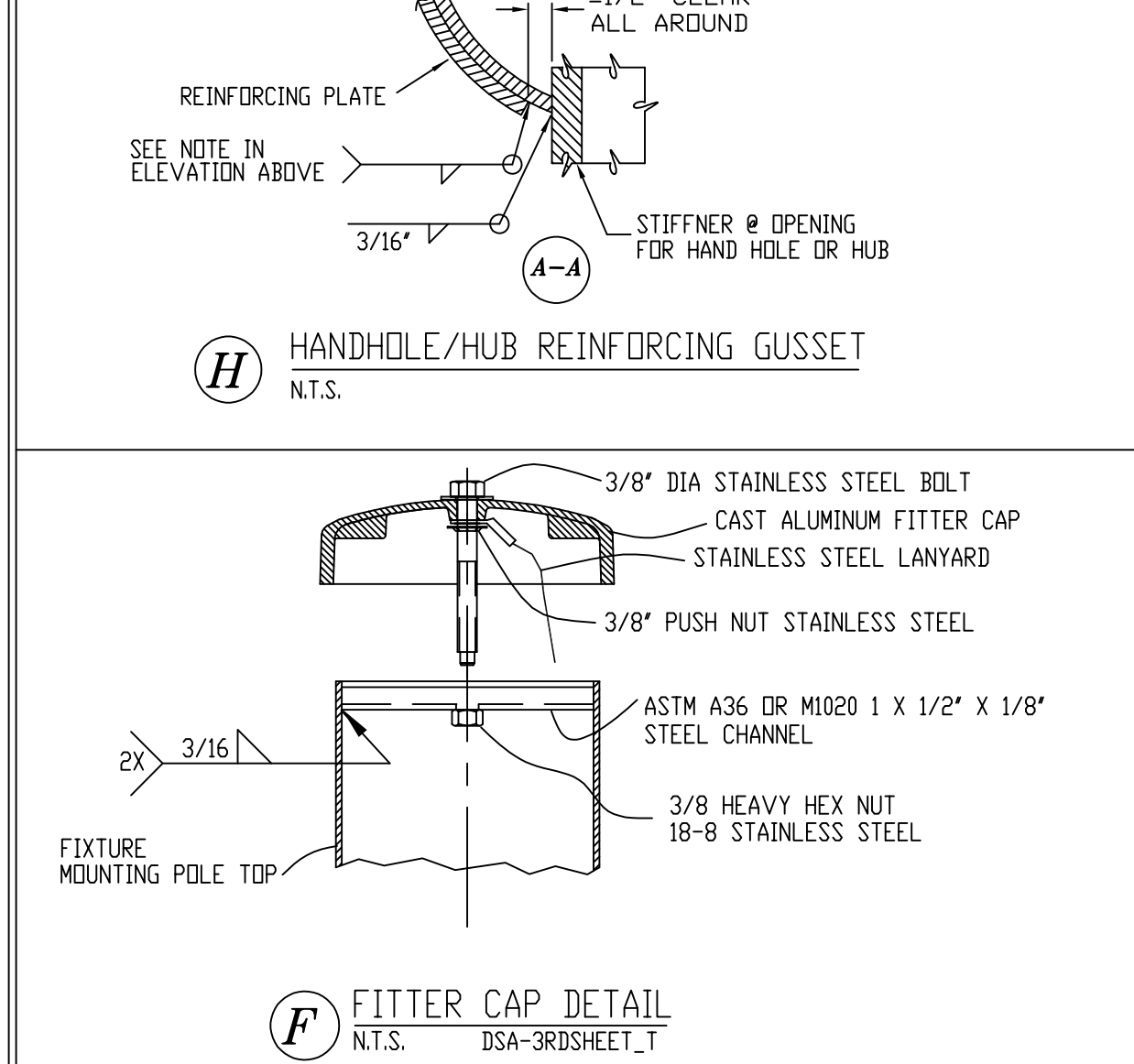
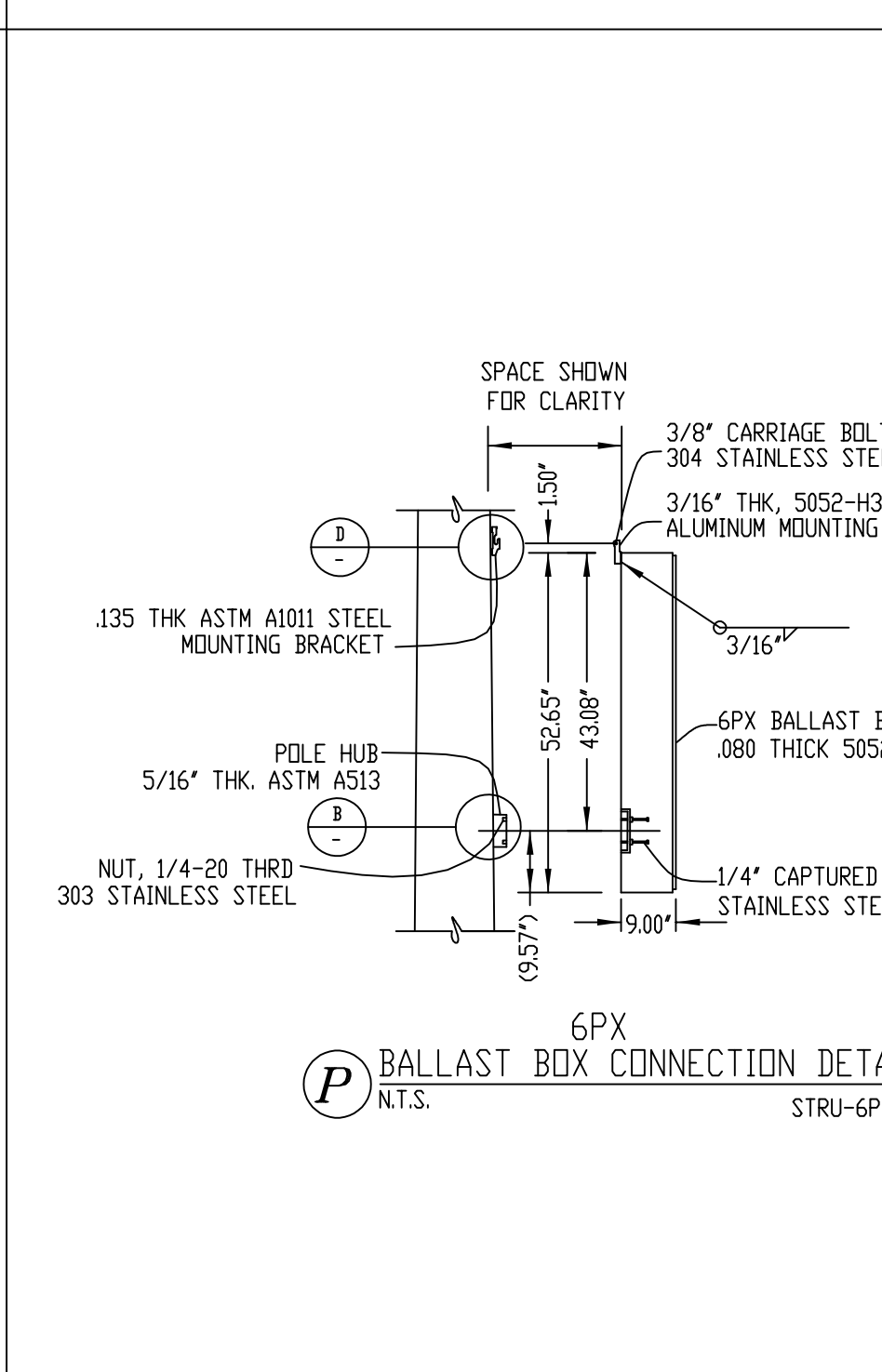
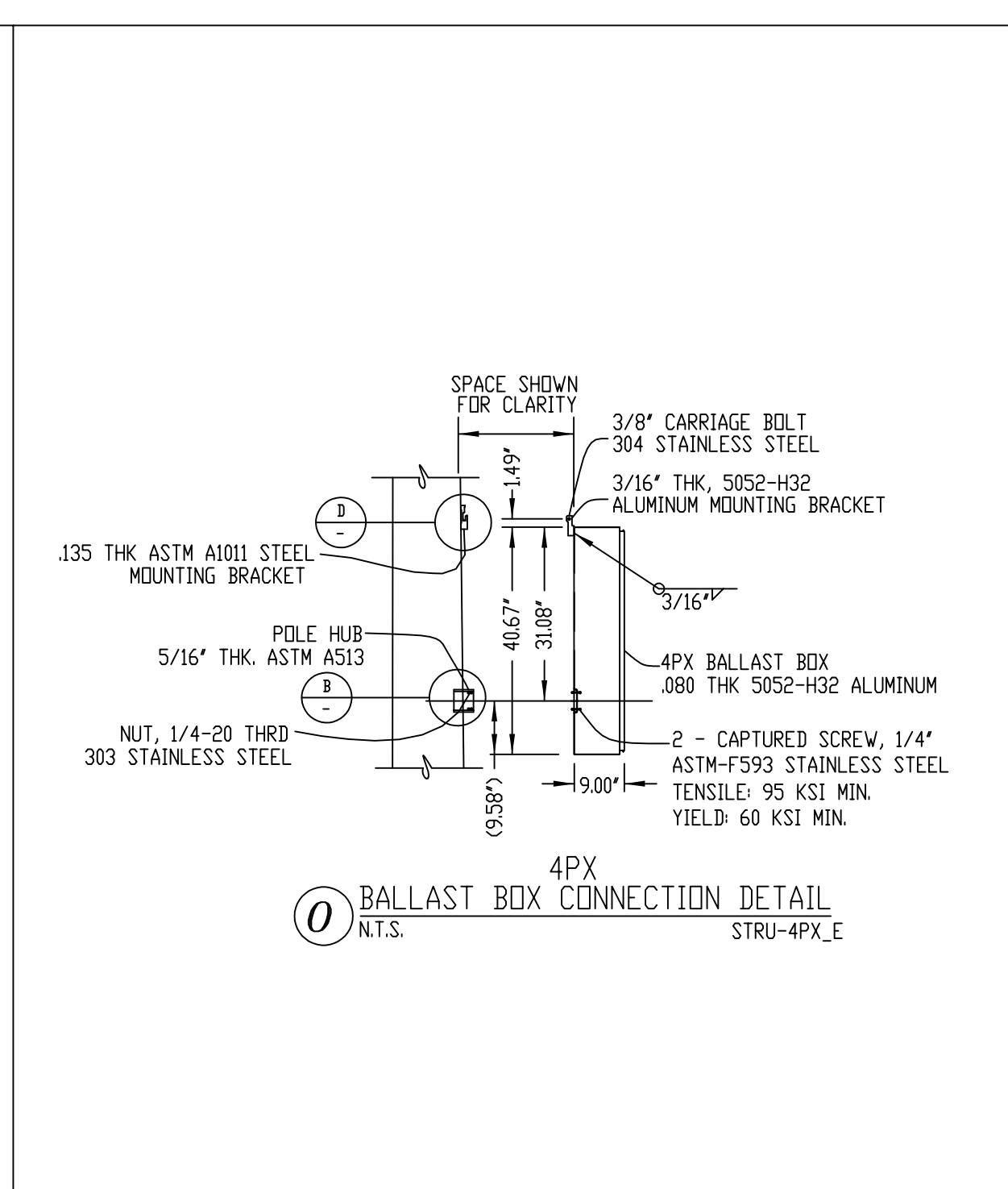
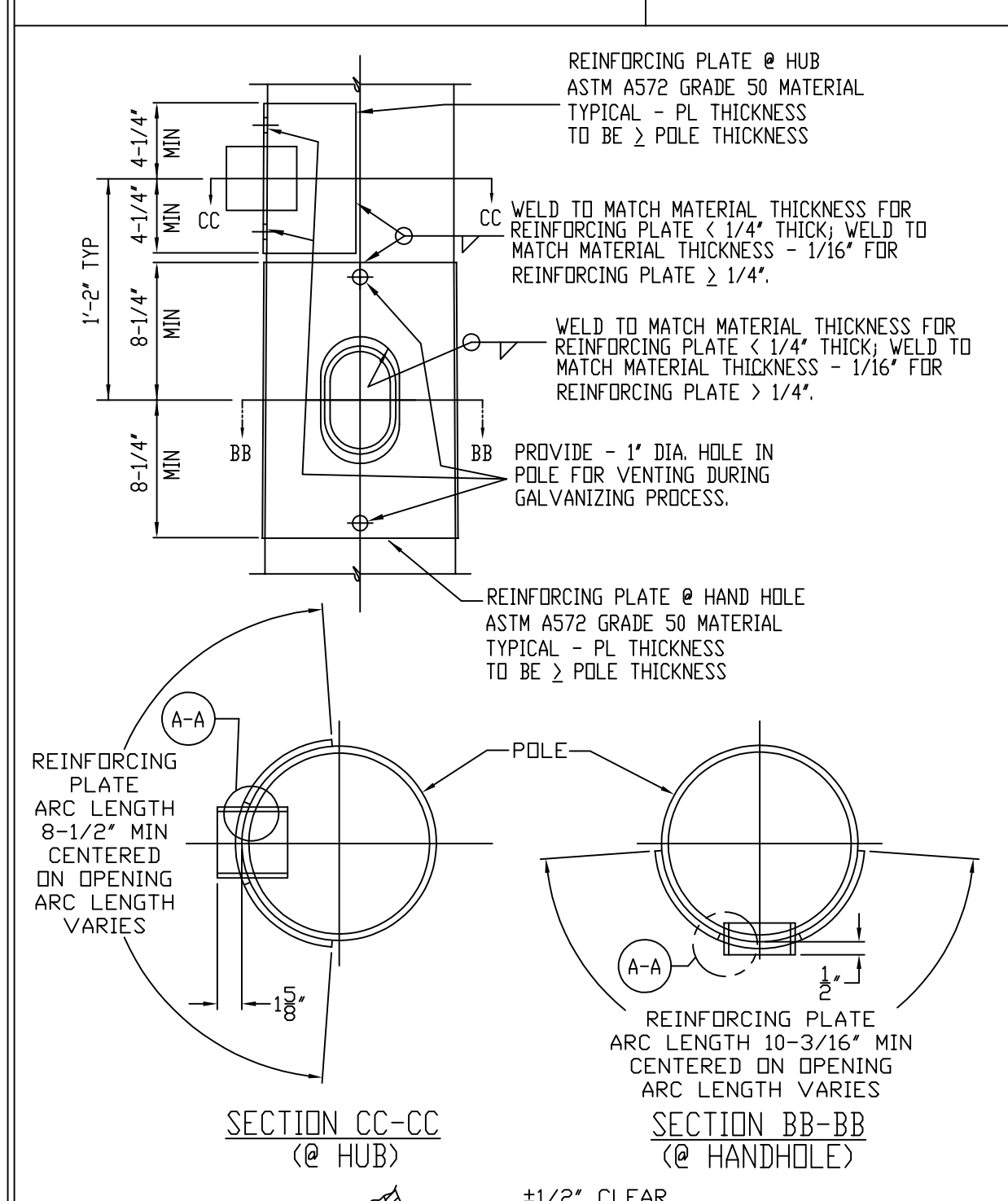
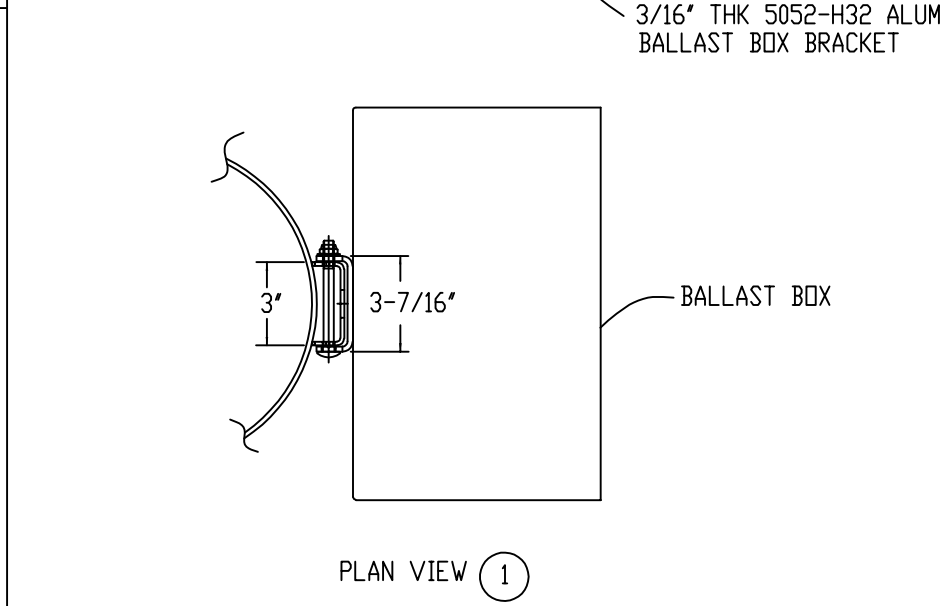
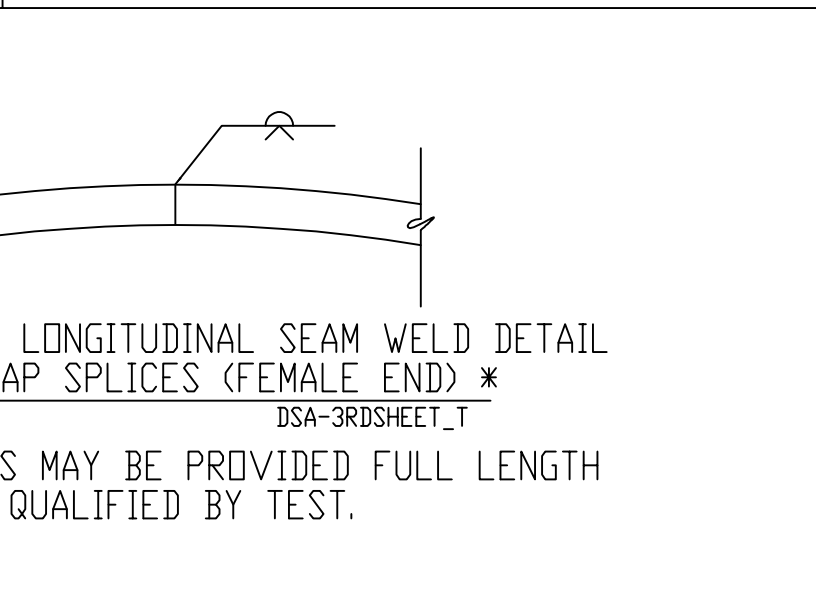
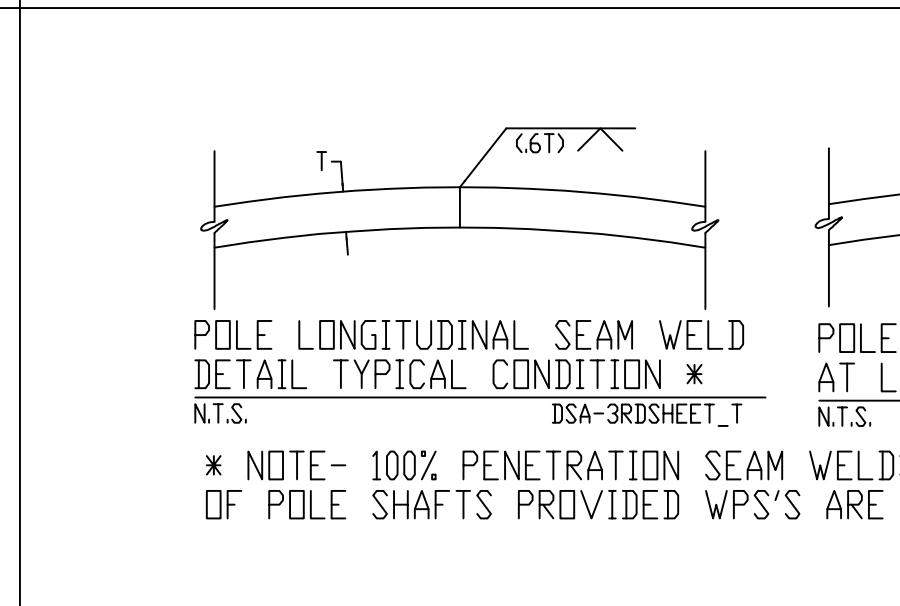
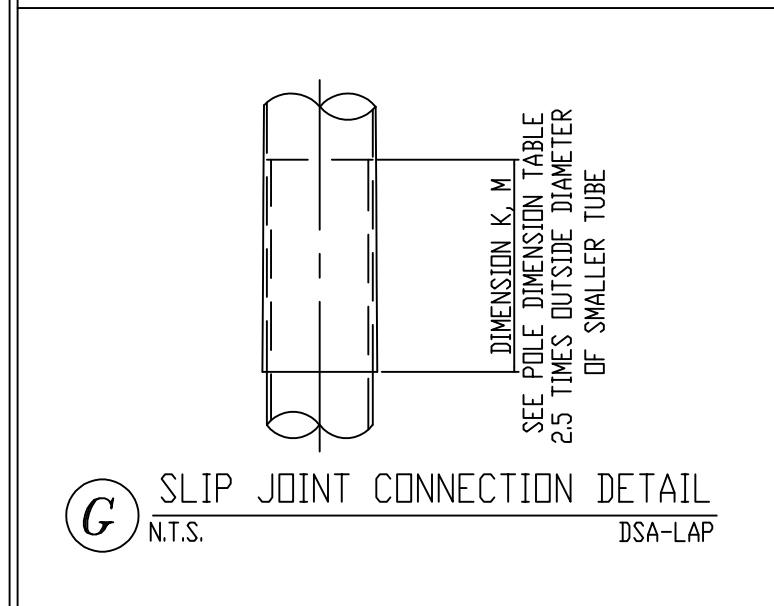
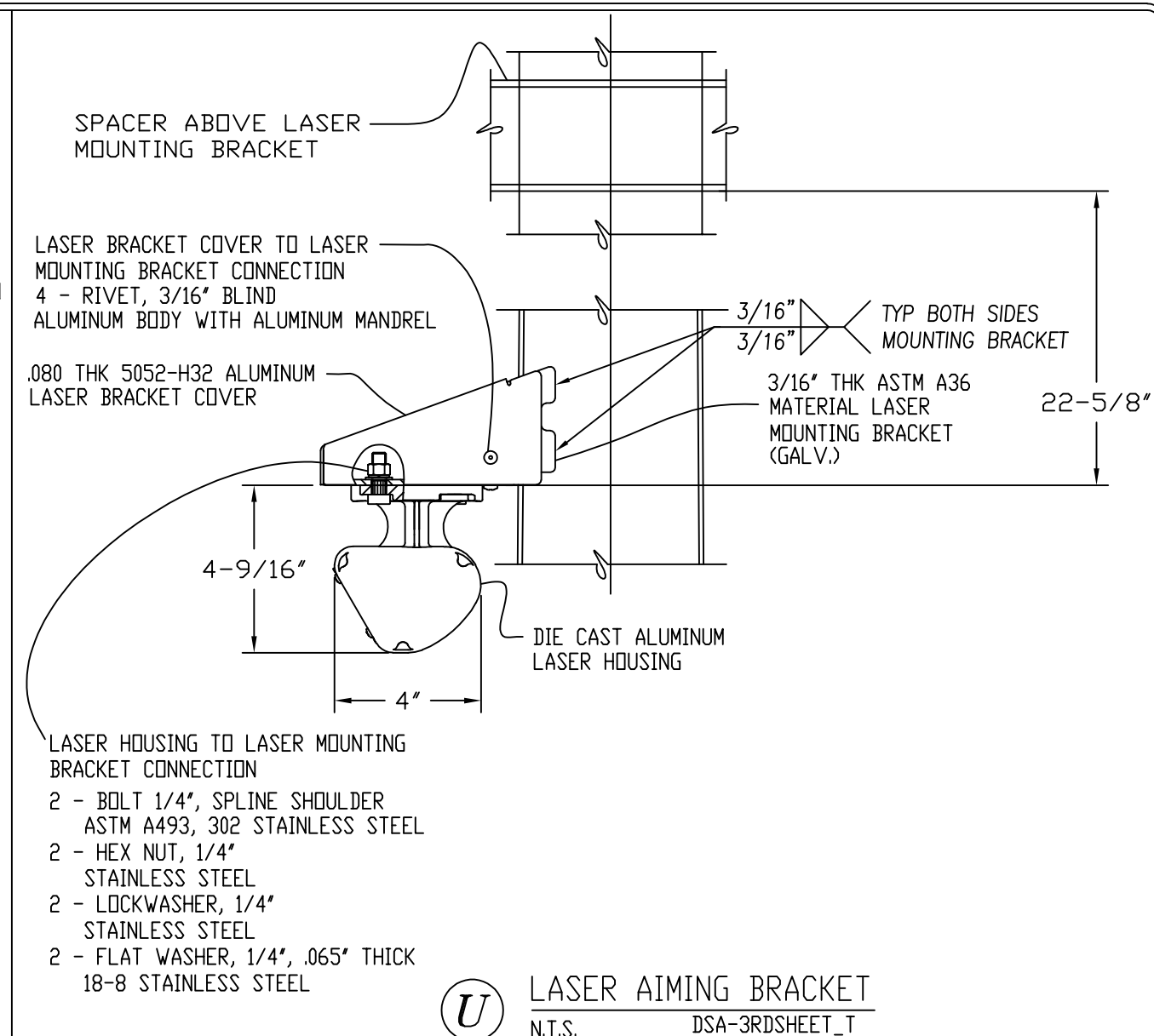
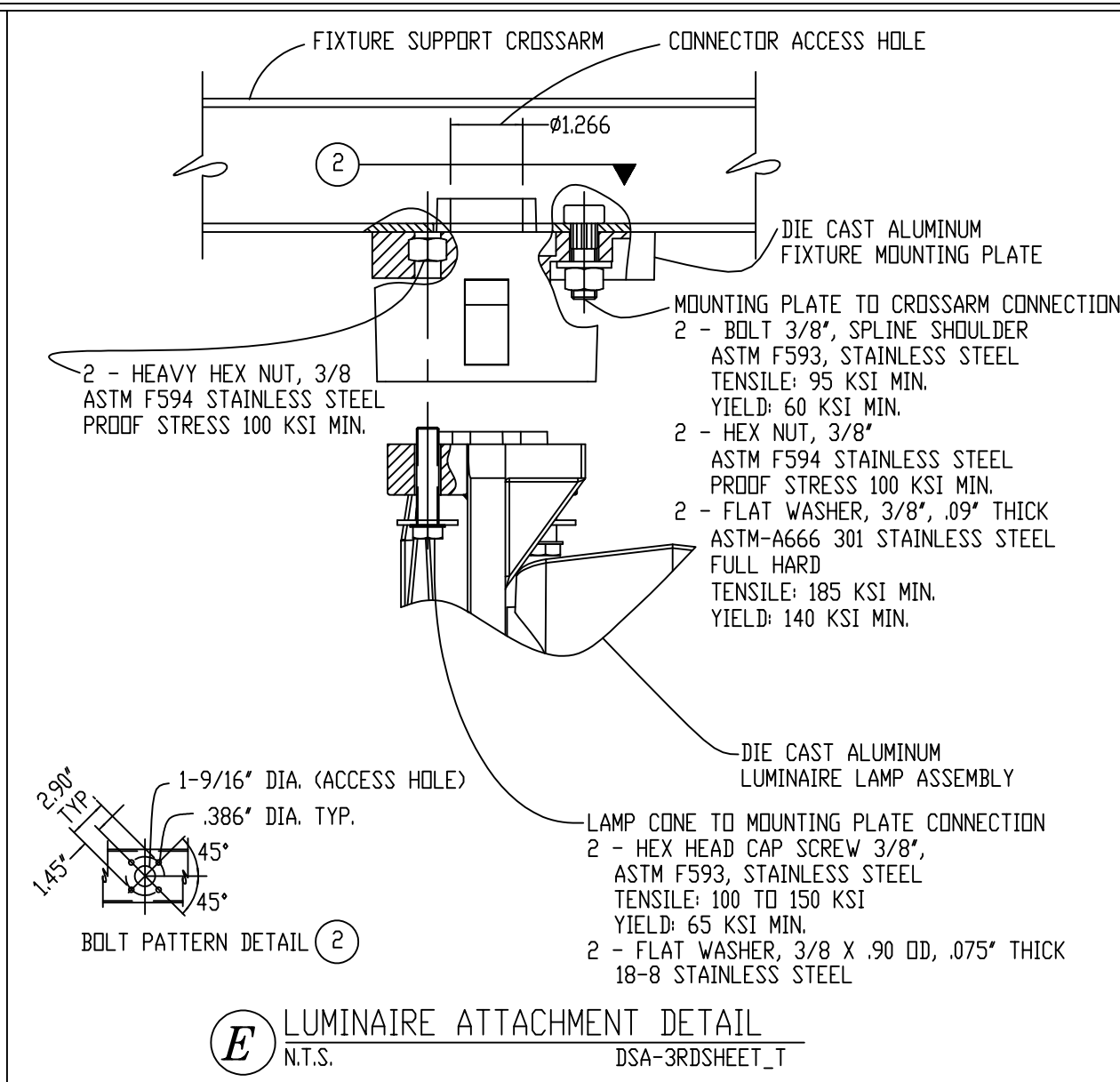
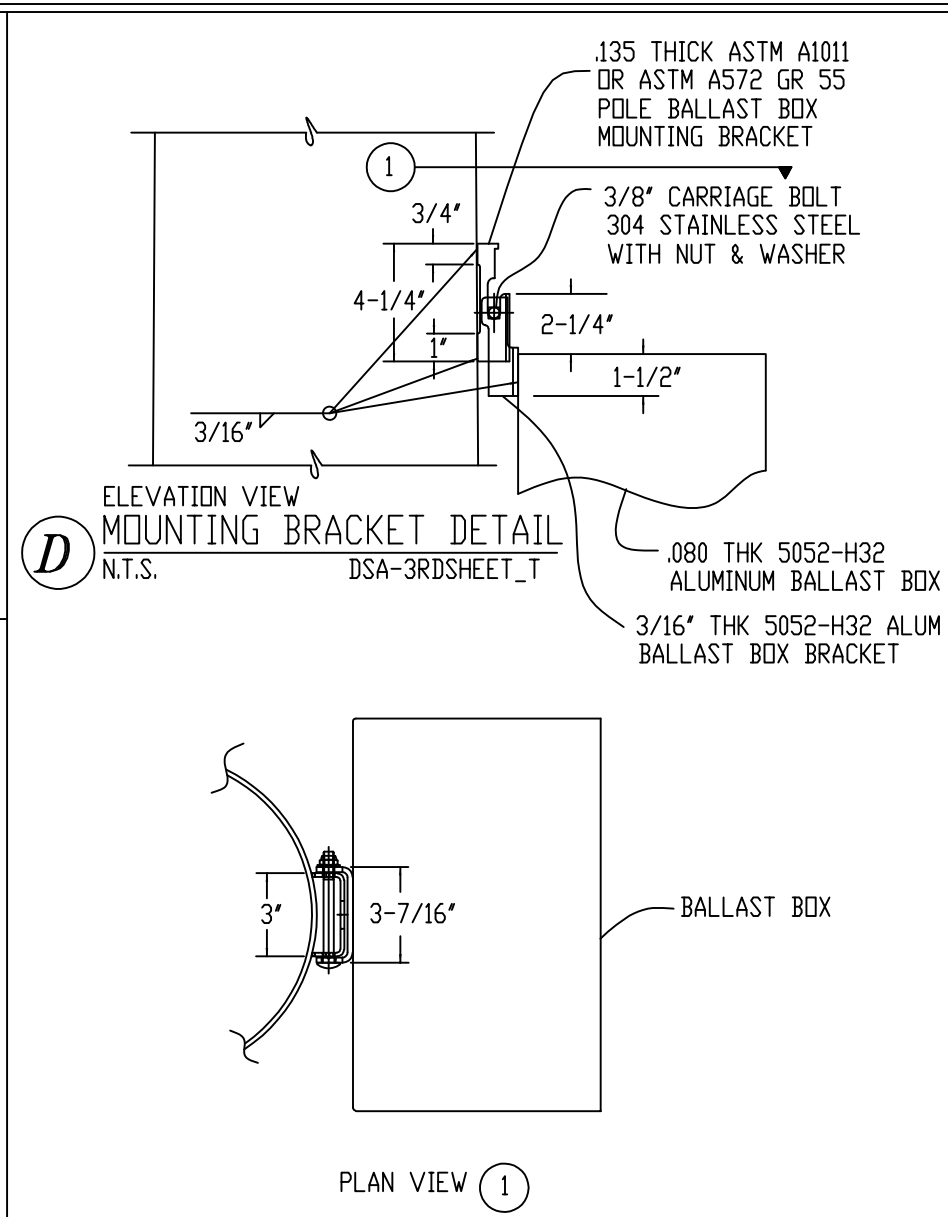
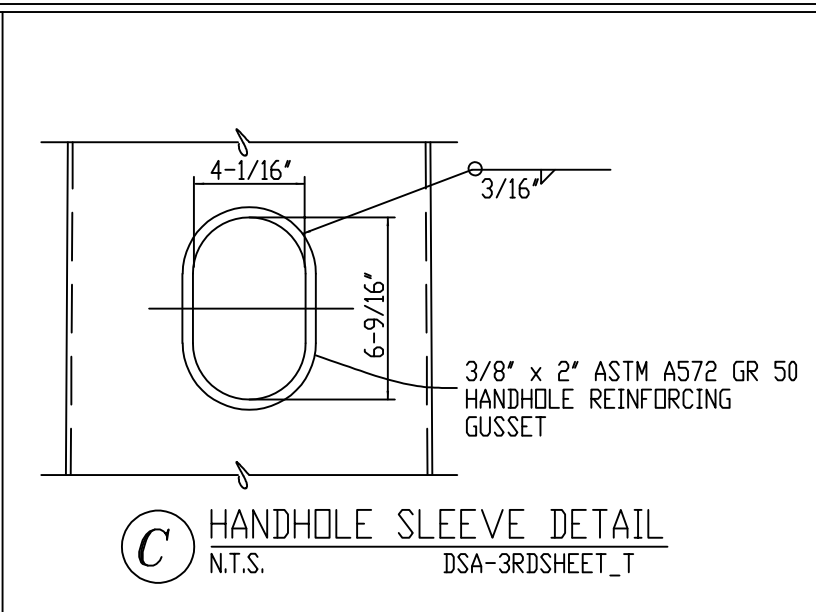
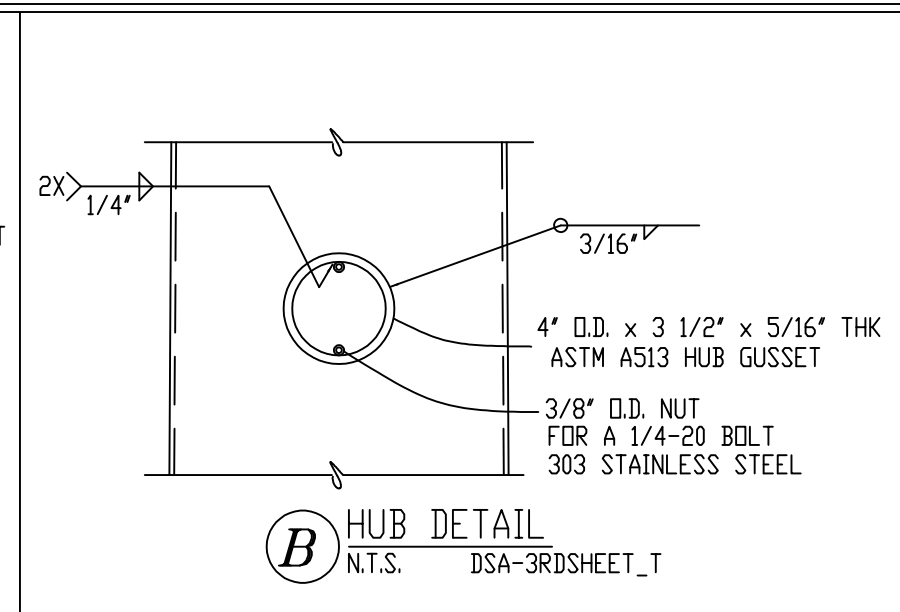
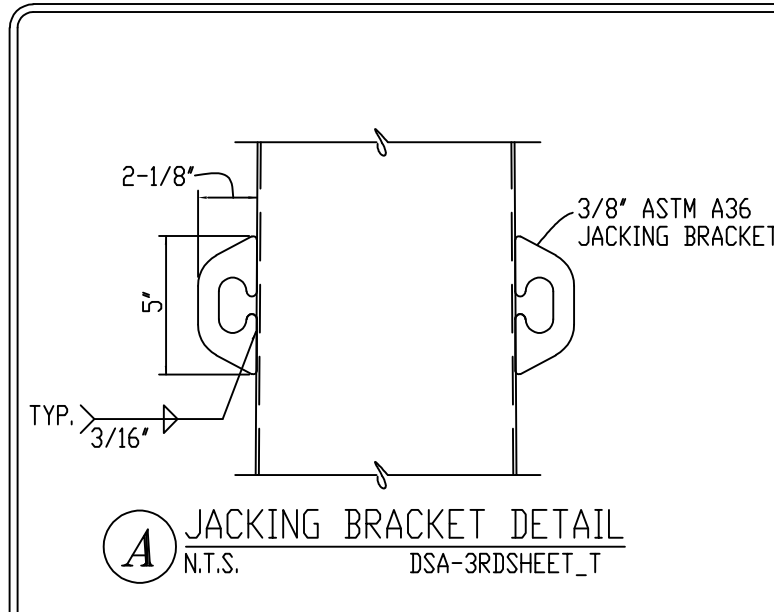


LSS70A POLE FRONT VIEW
N.T.S.
LSS70A POLE SIDE VIEW
N.T.S. DSA-70ABASE_A

CONSTRUCTION SET

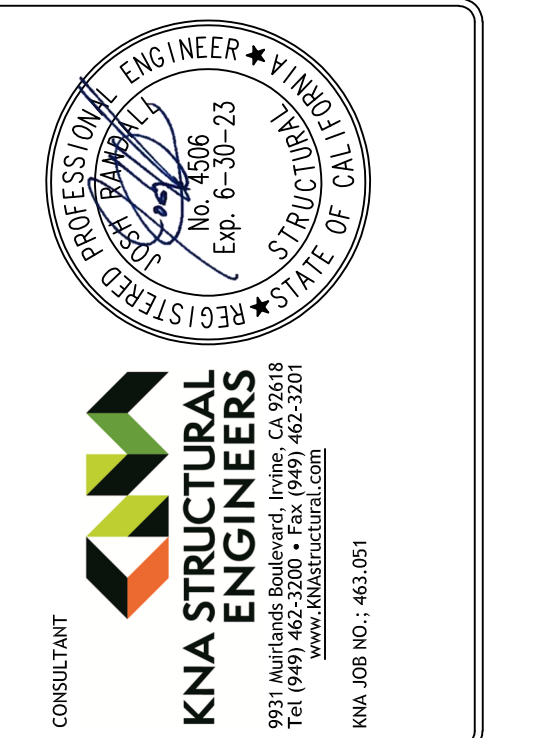
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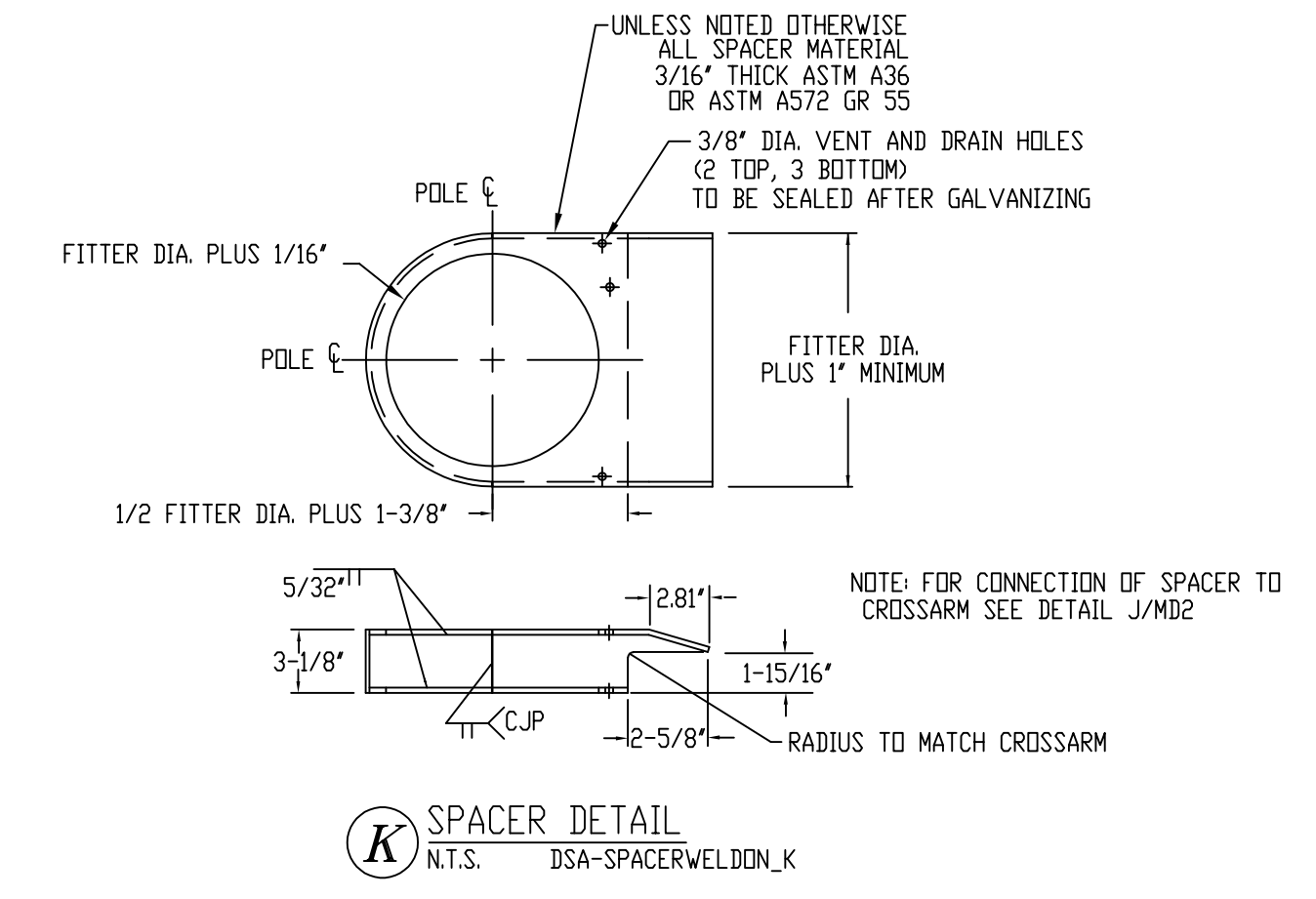
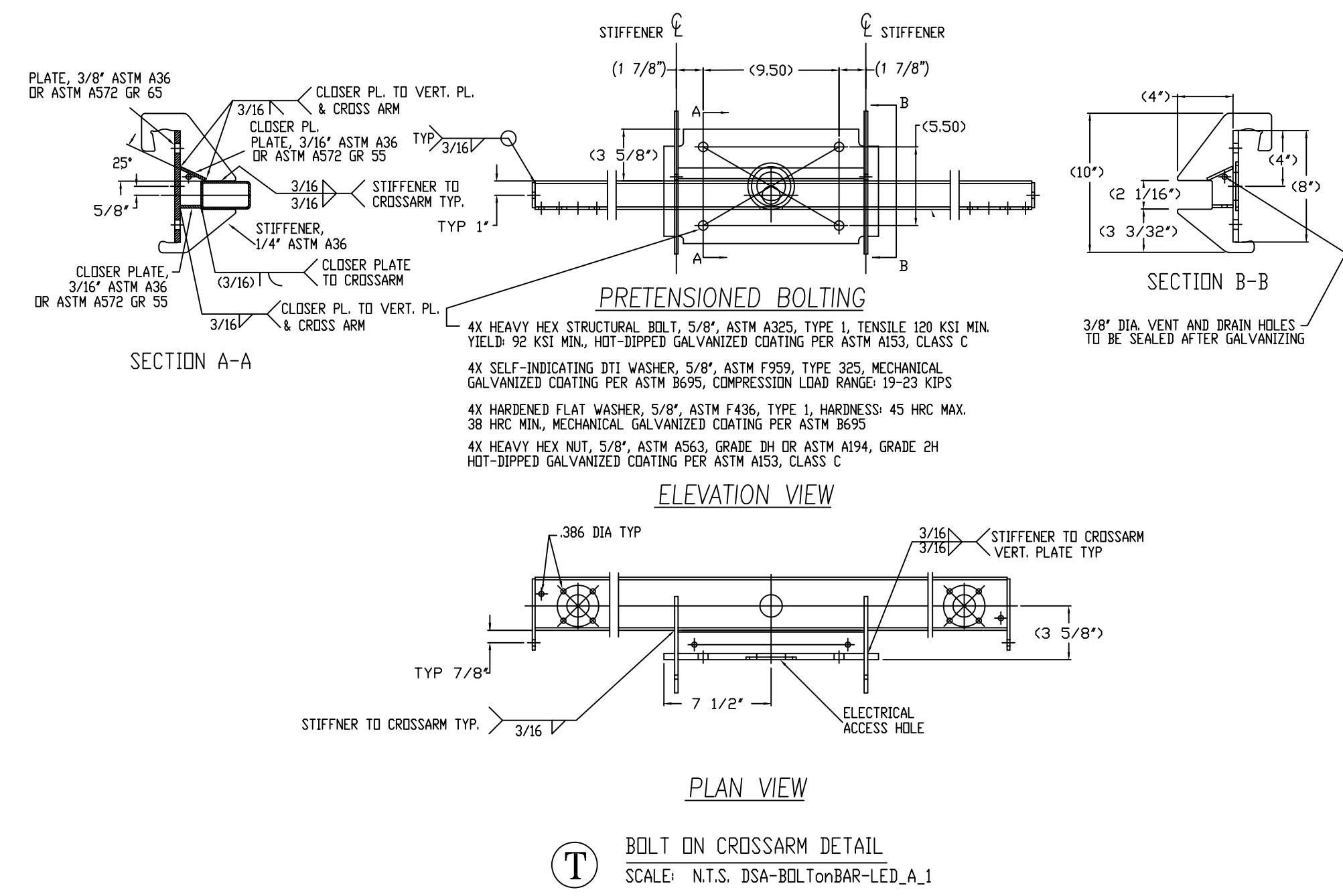
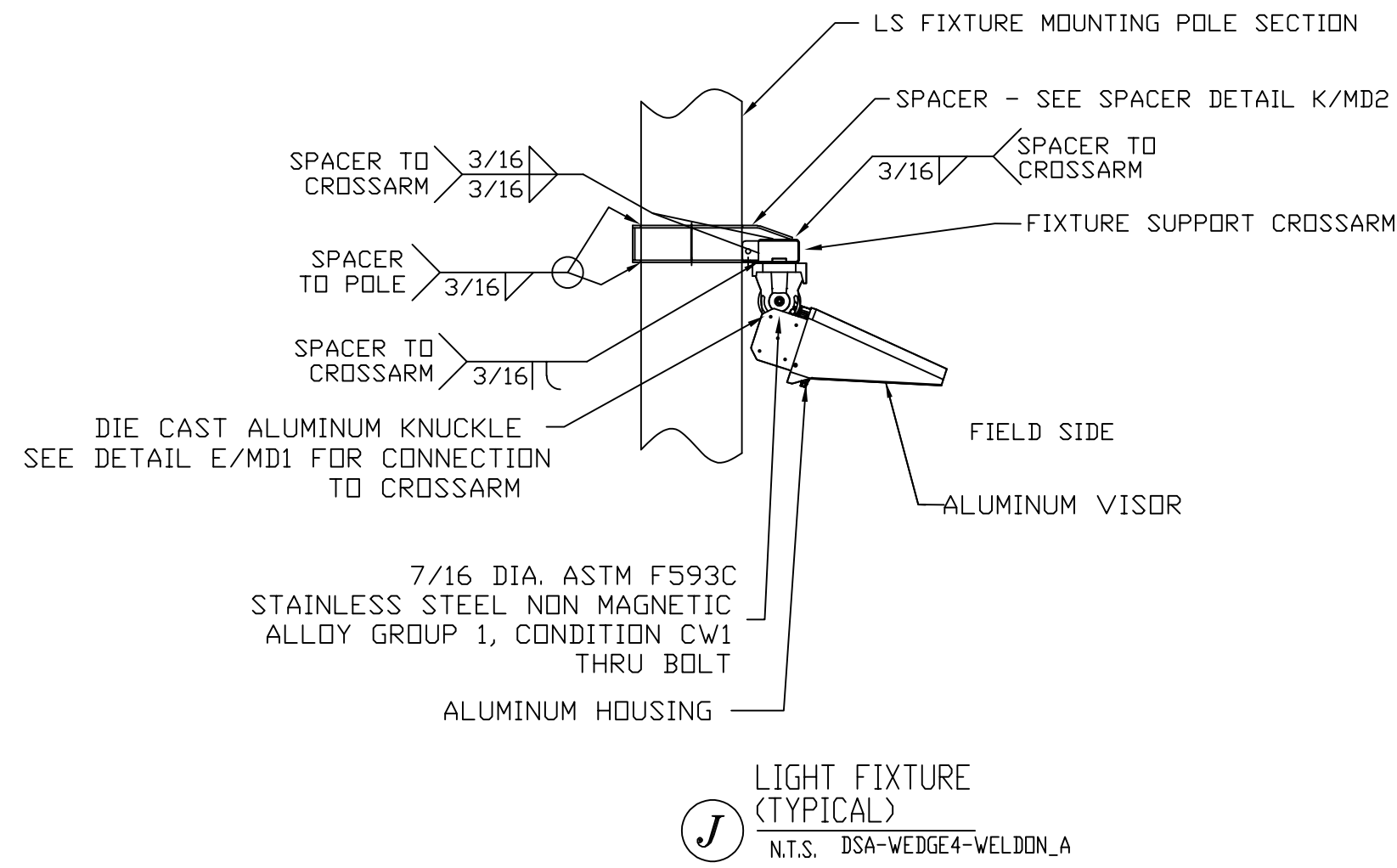
DRAWING TITLE: ATTACHMENT DETAILS	SCALE: SEE PLAN
REVISIONS:	REFERENCE:

PROJECT NO.	219340
DATE:	06/27/2022
DRAWN BY:	Bryce Miles
DRAWING NO.	MD1

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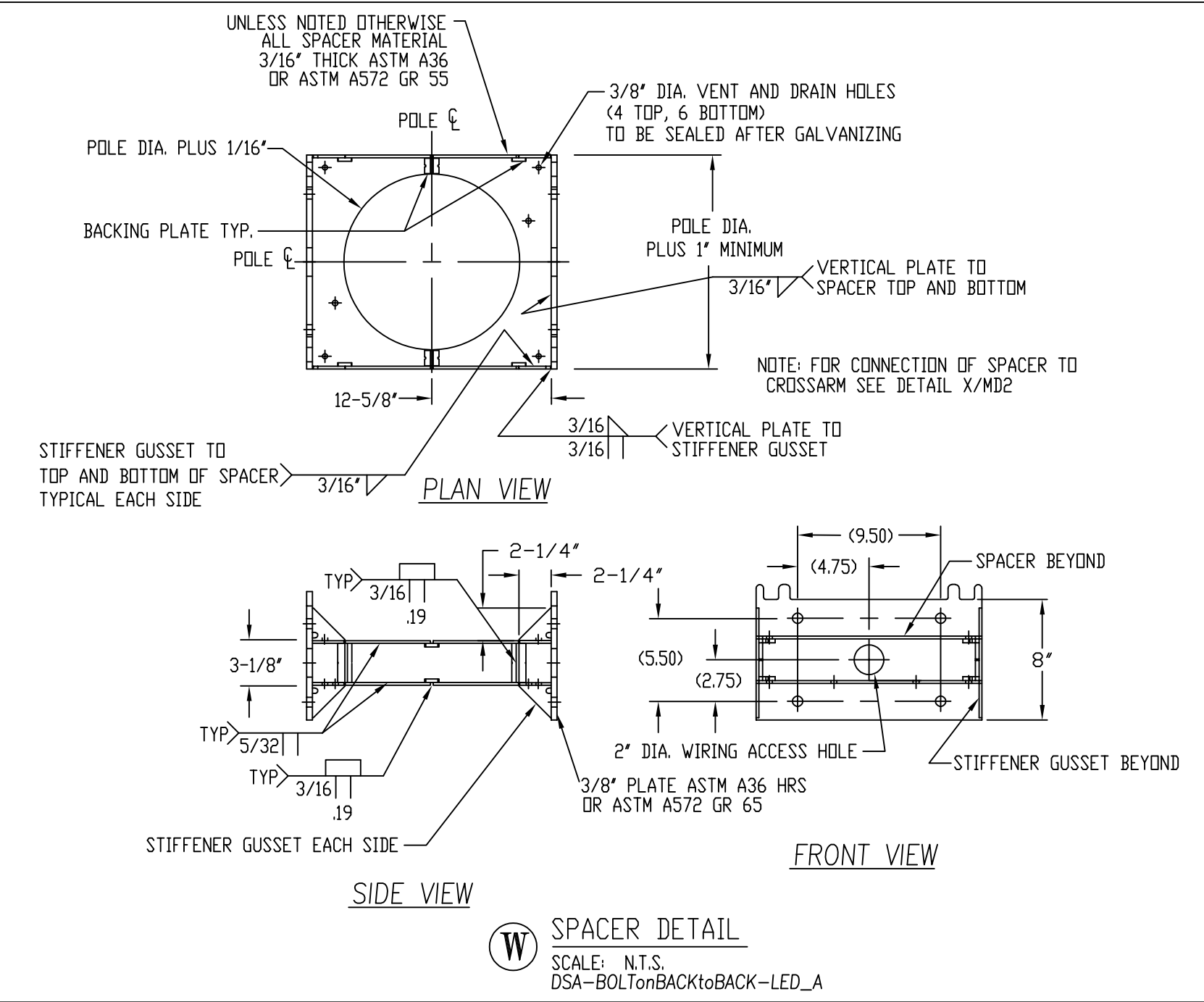
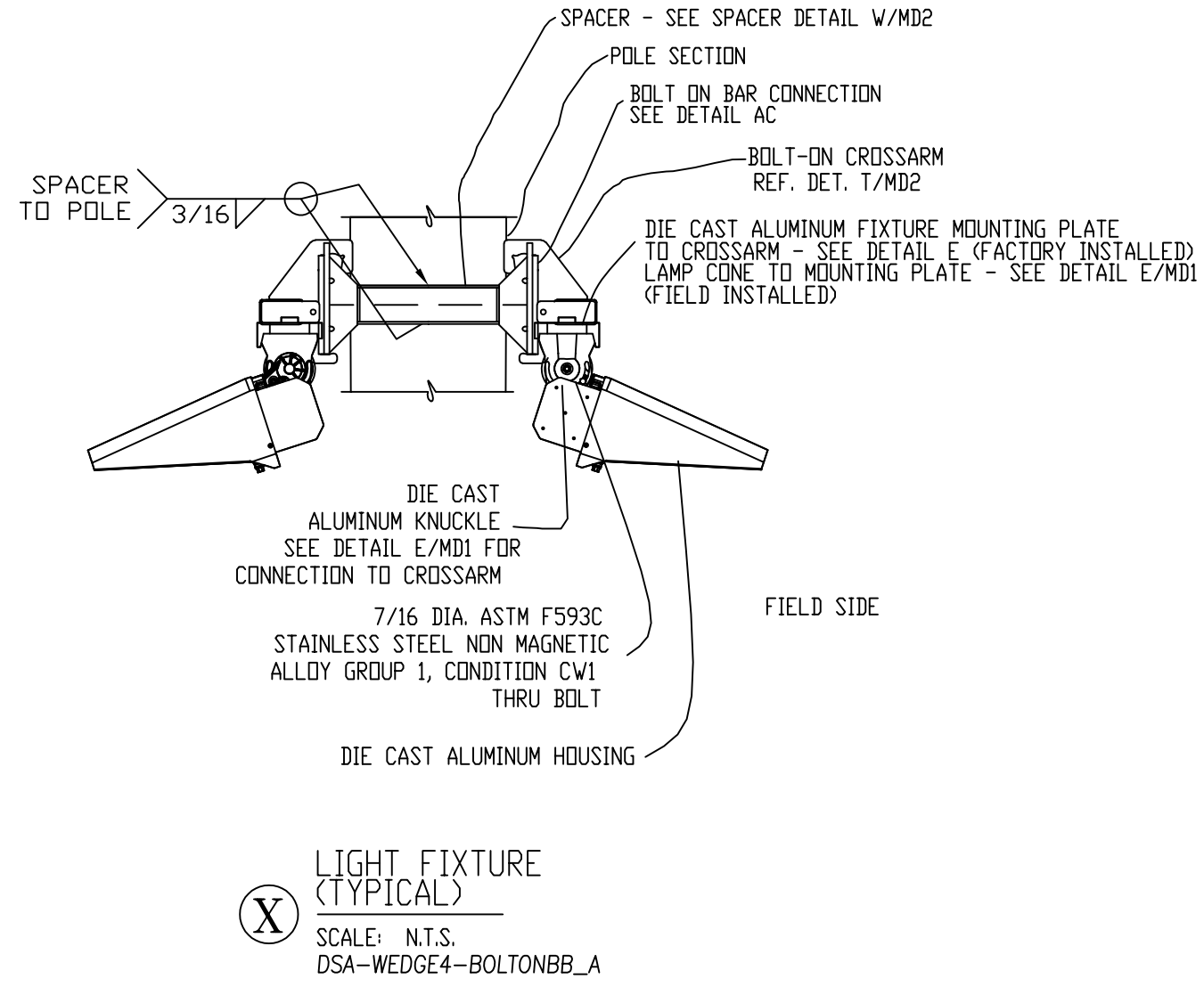
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Exp. 6-30-23
REGISTERED PROFESSIONAL ARCHITECT
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Exp. 6-30-23
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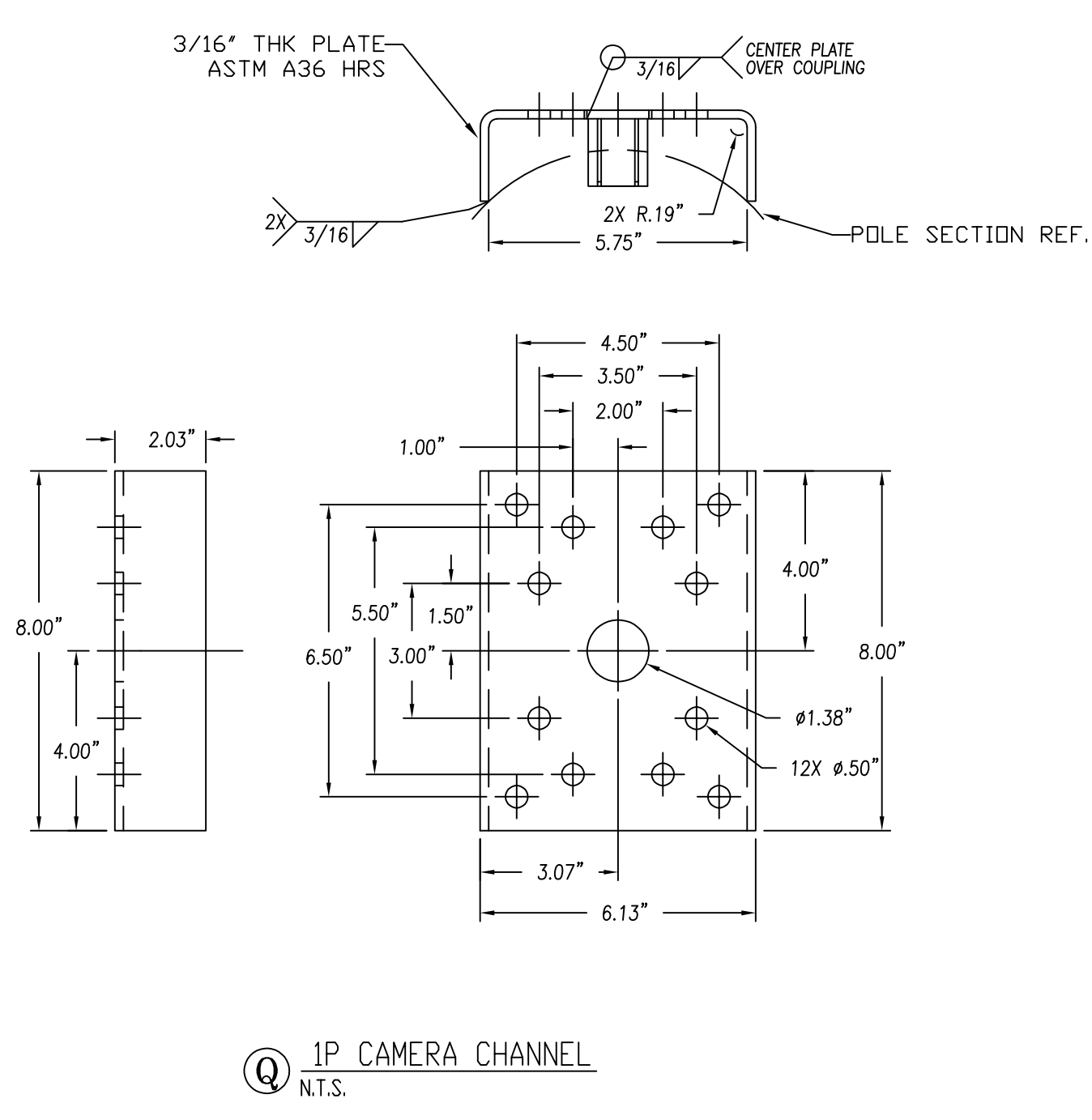
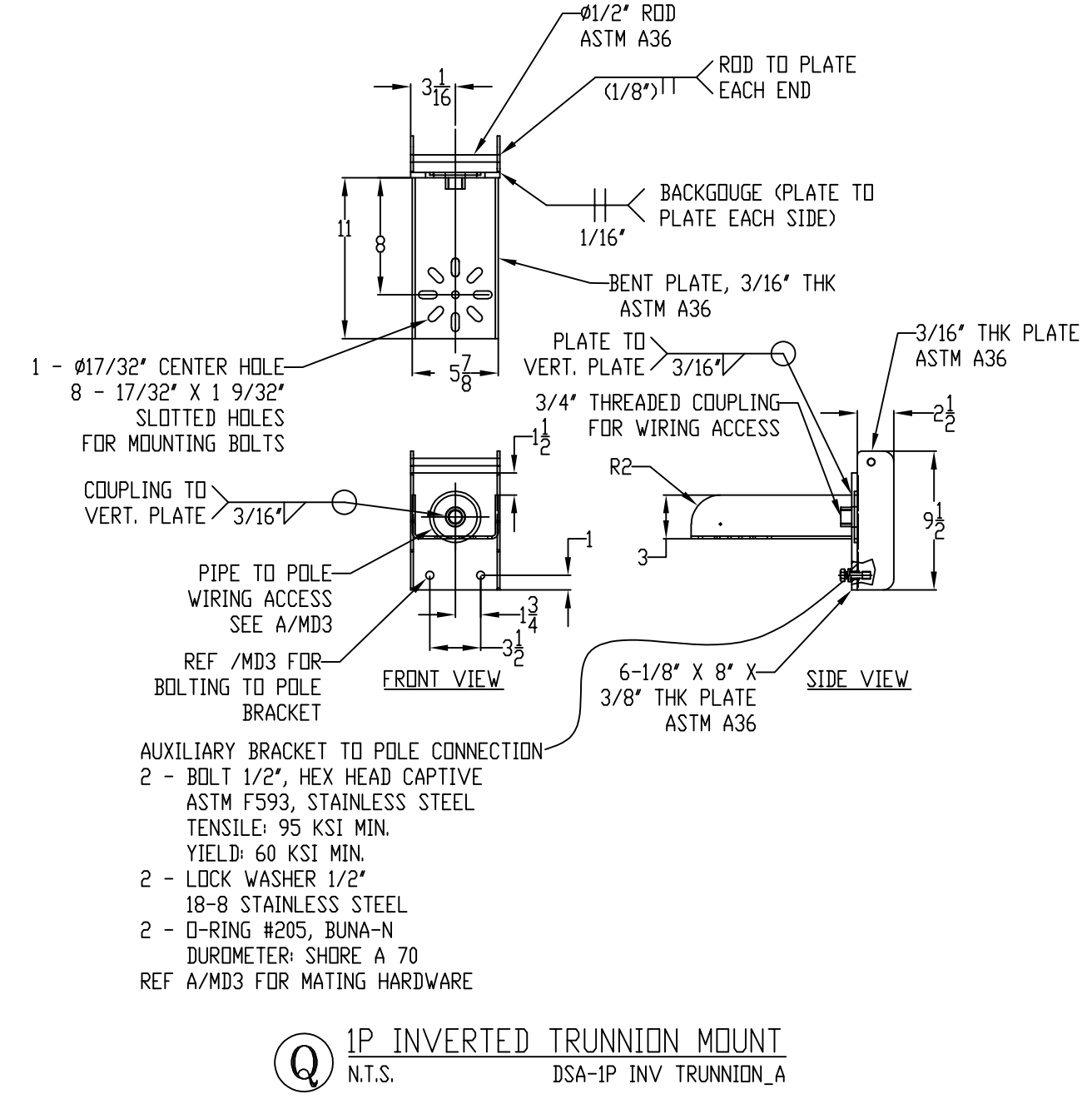
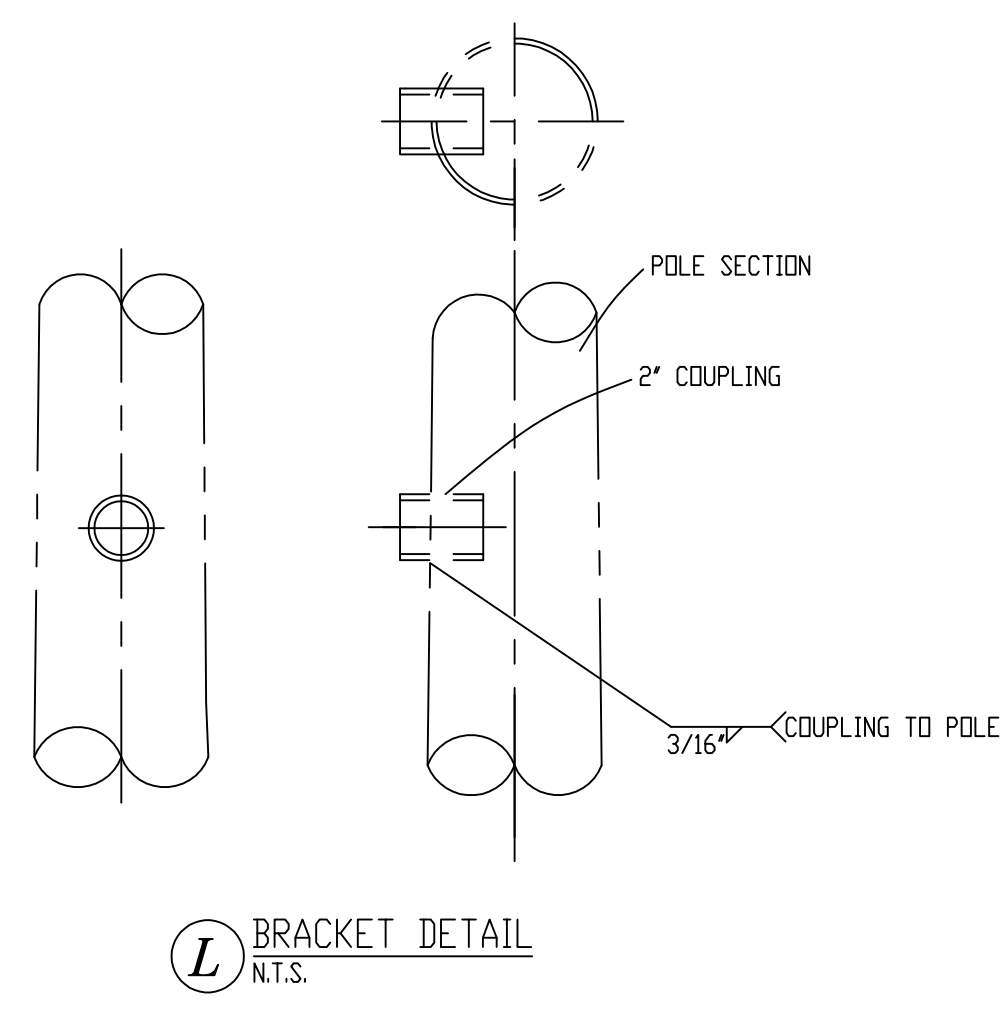
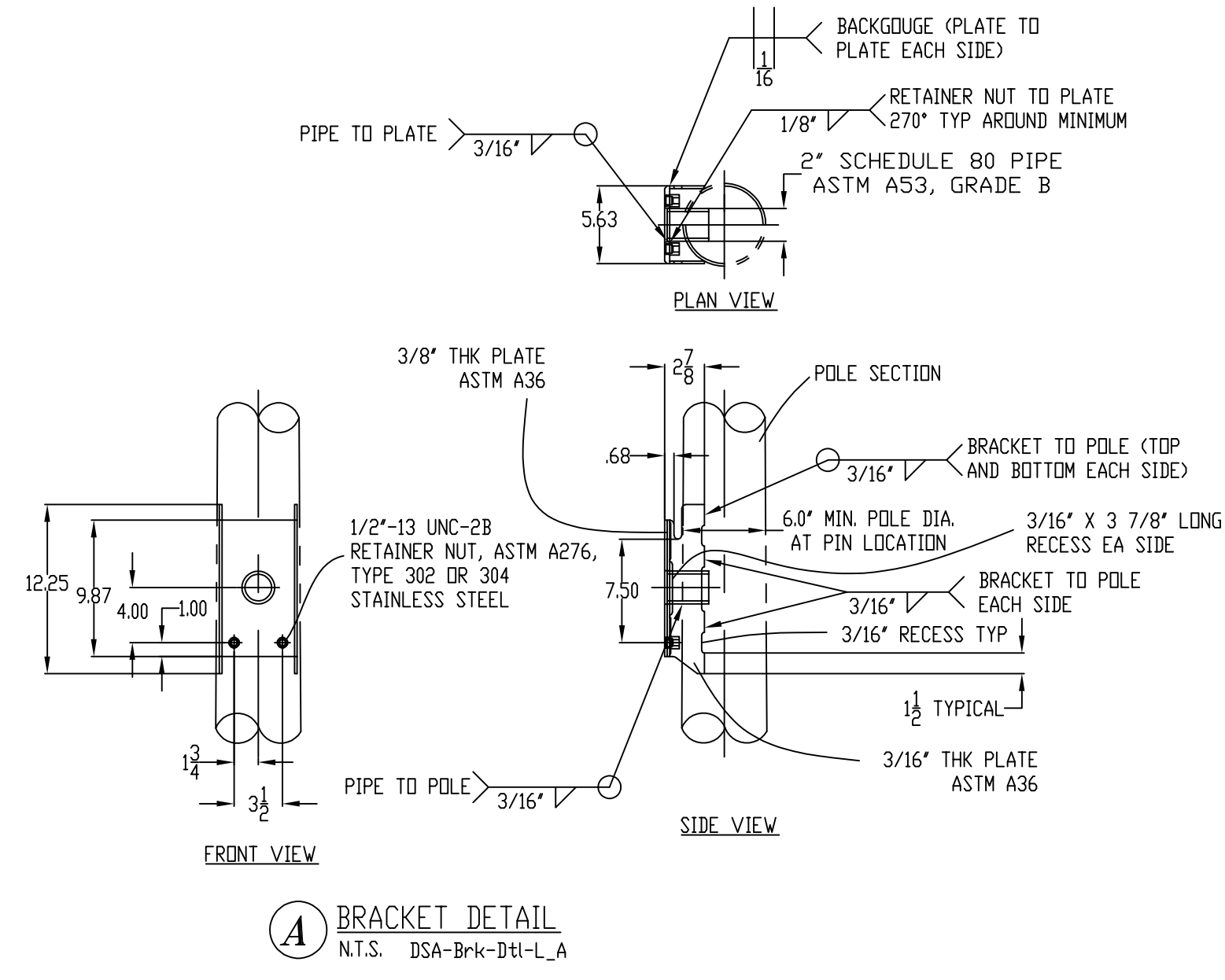
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REVISIONS:	REFERENCE:
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DRAWN BY: Bryce Miles	
DRAWING NO. 4 OF 5	MD2

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REFERENCE:	

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DRAWN BY: Bryce Miles

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