



EXISTING SQFT: 197,132  
 REMODELED SQFT: 2,266  
 EXPANSION SQFT: 3,232  
 TOTAL SQFT: 5,498

PROTO CYCLE: 07/30/21  
 DATE: 09/08/21  
 PROTO: 192 GROCERY EXP

PUYALLUP, WA  
 STORE NO.: 2403-278

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**UNDER SEPARATE PERMIT**  
 • FIRE SPRINKLER SYSTEM

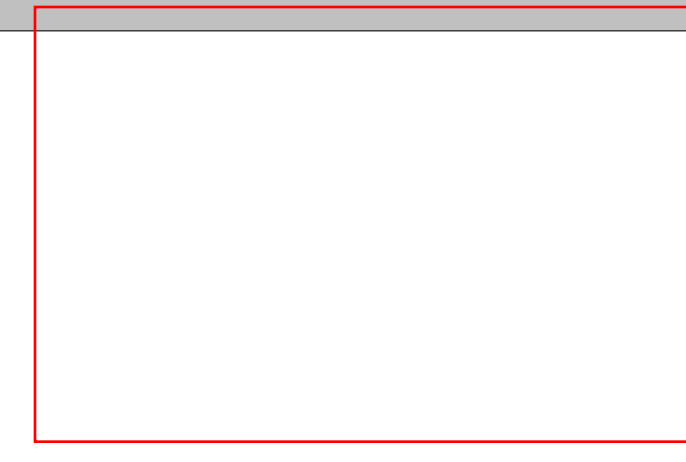
**BUILDING CODE SUMMARY**

<b>NAME OF PROJECT</b>	PUYALLUP, WA
<b>STREET ADDRESS</b>	310 31ST AVENUE SE, PUYALLUP, WA 98374
<b>PROPOSED USE</b>	RETAIL
<b>CODES</b>	2018 WASHINGTON STATE BUILDING CODE 2018 WASHINGTON STATE MECHANICAL CODE 2018 WASHINGTON STATE PLUMBING CODE 2018 WASHINGTON STATE ELECTRICAL CODE 2018 WASHINGTON STATE ENERGY CODE 2018 WASHINGTON STATE FIRE CODE 2018 WASHINGTON STATE FIRE CODE ICC A117.1-IBC CHAPTER 11
<b>OCCUPANCY</b>	M - MERCANTILE; WHOLESALE OR RETAIL STORE (MAIN USE) SECTION 309.1 S1 - STORAGE AREA; MOTOR VEHICLE STATION AND RECEIVING AND STOCKROOMS (MIXED USE) SECTION 311.2 A2 - ASSEMBLY USE; BREAKROOM AND FOOD TENANT (ACCESSORY TO MAIN USE) SECTION 303.1 B - BUSINESS; NON FOOD TENANT (ACCESSORY TO MAIN USE) SECTION 304.1
<b>TYPE OF CONSTRUCTION</b>	I-B UNPROTECTED (SPRINKLERED) PER SECTION 602.2 AND TABLES 601 AND 602
<b>FIRE PROTECTION</b>	BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM AND IS SURROUNDED ON ALL SIDES BY 60 FEET MINIMUM OF PERMANENT OPEN SPACE. UNLIMITED AREA CRITERIA IS APPLICABLE.

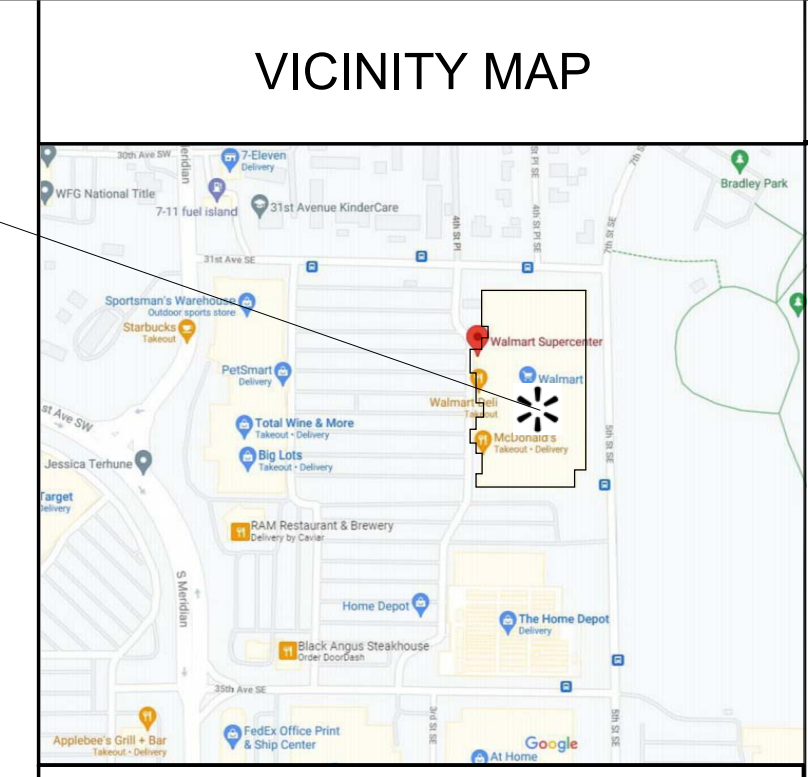
<b>OCCUPANT LOAD:</b>	<b>BUILDING AREAS:</b>
RETAIL: 157,384 / 30 = 5,246	EXISTING AREA: 197,132 SF
OFFICES: 4,346 / 100 = 44	PROPOSED EXPANSION: 3,232 SF
STORAGE: 38,642 / 300 = 129	TOTAL PROPOSED AREA: 200,364 SF
GARDEN CENTER: 19,489 / 30 = 650	
TOTAL OCCUPANT LOAD: 6,069	

<b>EGRESS WIDTHS REQUIRED:</b>	
RETAIL: 5,246 x 2 = 1,050 INCHES	
OFFICES: 44 x 2 = 9 INCHES	
STORAGE: 129 x 2 = 26 INCHES	
GARDEN CENTER: 650 x 2 = 130 INCHES	
TOTAL WIDTH REQUIRED: 1,215 INCHES	

<b>EGRESS WIDTHS PROVIDED:</b>	
RETAIL/GARDEN CENTER: 1,384 INCHES	
OFFICES: 68 INCHES	
STORAGE: 101 INCHES	
TOTAL WIDTH PROVIDED: 1,553 INCHES	



WALMART #02403  
 310 31ST AVENUE SE,  
 PUYALLUP, WA 98374



**GENERAL NOTES**

- BUILDING IS FULLY SPRINKLERED AS REQUIRED BY CONTRACT DOCUMENTS. SUBMIT FIRE SPRINKLER SYSTEM DRAWINGS AND CALCULATIONS TO AUTHORITIES HAVING JURISDICTION (FIRE DEPARTMENT, FIRE MARSHAL, ETC.). OBTAIN ALL APPROVALS PRIOR TO FABRICATION OR INSTALLATION.
- OWNER WILL PROVIDE, OR HAS ALREADY PROVIDED, FIRE EXTINGUISHERS IN ACCORDANCE WITH NFPA 10. AUTHORITY HAVING JURISDICTION WILL APPROVE FINAL FIRE EXTINGUISHER LOCATIONS.
- WALMART'S ALARM CENTRALS ENGINEERING TEAM HAS CONTACTED THE AUTHORITY HAVING JURISDICTION FOR FIRE-PLAN DATA ABOUT STATE AND LOCAL REQUIREMENTS THAT DIFFER FROM THE NATIONALLY PUBLISHED CODES AND STANDARDS. A COMPLETE SITE SPECIFIC SUBMITTAL IS BEING MADE DIRECTLY TO THE AUTHORITY HAVING JURISDICTION. QUESTIONS SHOULD BE DIRECTED TO 1-800-550-9924, OPTION 3.
- THE MAXIMUM STORAGE HEIGHT IS TWELVE FEET EXCEPT IN THE GENERAL MERCHANDISE RECEIVING AREA IMMEDIATELY ADJACENT TO THE DOCK DOORS. THE STOCKROOM WILL HAVE A STACKING HEIGHT OF 15 FEET OF CLASS 1-V COMMODITIES IN FIXED, SINGLE AND DOUBLE ROW RACKS. THE STACKING HEIGHT OF THE ROLLING RACK AREA WILL NOT EXCEED 12 FEET.
- REINSTALL ALL FIRE EXTINGUISHERS IMMEDIATELY FOLLOWING COMPLETION OF FINAL FINISH TO MOUNTING SURFACE.
- REFER TO GENERAL CONTRACTOR PERMIT, REGISTRATION, NOTIFICATION INSPECTION & INSTALLER CERTIFICATION (GCPRI) REPORT LOCATED IN GC PERMIT INFORMATION FOLDER ON OWNER'S DOCUMENT DELIVERY WEBSITE.

**GENERAL SCOPE OF WORK**

- DOORS: REPAIR/REPLACE AS NOTED.
- PICKUP STORAGE (RIGHT SIDE): REMODEL/INSTALL NEW EQUIPMENT AND WALK-IN AS NOTED
- ONLINE PICKUP: IMPLEMENT PICKUP 2.0 AND REMODEL EXISTING PICKUP AREA IF EXISTING
- ROOF: INSTALL EQUIPMENT AS SHOWN
- FLOORING: REPAIR / REPLACE AS NOTED
- PICKUP EXTERIOR: REPAINT PARKING AND ACCESS STRIPING AS NOTED. INSTALL NEW SITE DIRECTIONAL SIGNAGE AS NOTED.

<b>ARCHITECTURAL/STRUCTURAL:</b>	<b>ELECTRICAL/MECHANICAL/PLUMBING ENGINEER:</b>	<b>STRUCTURAL ENGINEER (RACKING):</b>	<b>BUILDING REVIEW:</b>	<b>PLANNING AND ZONING REVIEW:</b>	<b>MECHANICAL/ELECTRICAL/PLUMBING REVIEW:</b>	<b>FIRE SPRINKLER &amp; ALARM REVIEW:</b>	<b>HEALTH REVIEW:</b>	<b>STORE MANAGER:</b>
WD PARTNERS ARCHITECT OF RECORD 7007 DISCOVERY BLVD DUBLIN, OHIO 43017 PHONE: (614) 634-7000	WD PARTNERS ENGINEER OF RECORD 7007 DISCOVERY BLVD DUBLIN, OHIO 43017 PHONE: (614) 634-7000	JOHNSTON BURKHOLDER ASSOCIATES, LLC 930 CENTRAL STREET KANSAS CITY, MISSOURI 64105 PHONE: (816) 412-4200	CITY OF PUYALLUP PERMIT CENTER 333 S MERIDIAN 2ND FLOOR PUYALLUP, WA 98371 253-841-5481	CITY OF PUYALLUP PLANNING SERVICES 333 S MERIDIAN 2ND FLOOR PUYALLUP, WA 98371 253-864-4165	CITY OF PUYALLUP PERMIT CENTER 333 S MERIDIAN 2ND FLOOR PUYALLUP, WA 98371 253-841-5481	CITY OF PUYALLUP FIRE PREVENTION DIVISION 333 S MERIDIAN 2ND FLOOR PUYALLUP, WA 98371 253-864-4171	TACOMA-PIERCE COUNTY HEALTH DEPARTMENT 3629 SOUTH D ST TACOMA, WA 98418 253-649-1706	JASON VAN NESS WALMART STORE NO. 2403-278 310 31ST AVENUE SE, PUYALLUP, WA 98374 PHONE: (253) 770-4399



7007 DISCOVERY BLVD  
 DUBLIN, OH 43017  
 614.634.7000 T  
 WDPARTNERS.COM

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CONSULTANTS

WALMART #02403  
 310 31ST AVENUE SE, PUYALLUP, WA 98374  
 STORE NO. 2403-278  
 JOB NUMBER: WALGPP0402 | PHOTO: 192 GROCERY EXP

**ISSUE BLOCK**

1	PR#1	01/25/22
2	PR#2	03/18/22
3	ADR#2	05/11/22

CHECKED BY: SME  
 DRAWN BY: MA/AK/SH  
 PROTO CYCLE: 07/30/21  
 DOCUMENT DATE: 09/08/21

REGISTERED ARCHITECT  
 CHRISTOPHER K. DOERSCHLAG  
 STATE OF WASHINGTON  
 05/12/2022

DOCUMENTS THAT DO NOT HAVE THE ARCHITECT OR ENGINEER OF RECORD SEAL AND SIGNATURE SHALL BE CONSIDERED NOT FOR CONSTRUCTION

**COVER SHEET**

SHEET: C1



**RESPONSIBILITY MATRIX**

THE PURPOSE OF THIS DOCUMENT IS TO PROVIDE AN EASY ACCESS TO SOME OF THE IMPORTANT INFORMATION NEEDED FOR THIS PROJECT. THIS MATRIX IS NOT AN INCLUSIVE SCOPE OF WORK AND DOES NOT REPLACE THE REQUIREMENTS IDENTIFIED IN THE REST OF THE CONTRACT DOCUMENTS.

ITEM DESCRIPTION	FURNISHED BY	INSTALLED BY	COORDINATION TASK	CONTACT	PHONE & EMAIL	LOCATION IN DOCUMENTS
NEW AUTO SLIDING DOOR PACKAGES, INCLUDING NEW PICKUP OR EXPANSION DOORS.	OWNER	OWNER	GC TO CONFIRM DOOR MANUFACTURER'S ROUGH OPENING AND DRAWINGS DIMENSIONS BEFORE DOORS CAN BE BUILT AND SHIPPED. DOOR PRODUCTION DOES NOT BEGIN UNTIL ROUGH OPENINGS ARE CONFIRMED.	STANLEY ACCESS TECHNOLOGIES RECORD-USA	STANLEY ACCESS TECHNOLOGIES, FARMINGTON, CT CONTACT: CARLA MESSINA, NATIONAL ACCOUNTS PROJECT MANAGER, (860) 891-0267 RECORD-USA MONROE, NC CONTACT: DAVID PICKERS, VP OF DIRECT SALES, (704) 315-7392	REF SPECIFICATION 01600 FOR LONG LEAD TIMES
REPLACEMENT OF EXISTING AUTO SLIDING DOOR INCLUDING PICK-UP & OTHER LOCATIONS	OWNER	OWNER	STANLEY DISPATCHES TECHNICIAN TO CONFIRM EXISTING CONDITIONS AND ROUGH OPENINGS	STANLEY ACCESS TECHNOLOGIES RECORD-USA	STANLEY ACCESS TECHNOLOGIES, FARMINGTON, CT CONTACT: CARLA MESSINA, NATIONAL ACCOUNTS PROJECT MANAGER, (860) 891-0267 RECORD-USA MONROE, NC CONTACT: DAVID PICKERS, VP OF DIRECT SALES, (704) 315-7392	
SALVAGE PICKUP REFRIDGERATION EQUIPMENT	N/A	N/A	PROPAK: 1. GC TO REMOVE REFRIDGERATED EQUIPMENT. PROPAK TO DE-COMMISSION EQUIPMENT AND REMOVE REFRIDGERANT. 2. GC TO PALLETIZE EQUIPMENT AND CONTACT PROPAK FOR REMOVAL. HUSSMANN 1. HUSSMANN TO DE-COMMISSION AND SALVAGE REFRIDGERATED CASES TO BE RE-USED FOR NEW OGP ACTIVATIONS. 2. GC RESPONSIBLE FOR ALL OTHER SCOPE DUE TO OGP CASE REMOVAL, INCLUDING REMOVAL OF DOOR FRAMES AS NEEDED.	PROPAK HUSSMANN	PROPAK CONTACT: DONALD PARTAIN - walmart@propak.com HUSSMANN CONTACT: RANDY BADSKY - Randy.Badsky@Husmann.com	SPEC SECT 02023



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DUBLIN, OH 43017  
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THIS DRAWING HAS BEEN PREPARED FOR THE PROJECT SHOWN AND IS NOT TO BE REUSED IN ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT. ANY REUSE OF THIS DRAWING FOR ANY OTHER PROJECT WILL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO THE ARCHITECT. THE ARCHITECT ASSUMES NO LIABILITY FOR ANY DAMAGES, INCLUDING CONSEQUENTIAL DAMAGES, THAT MAY BE INCURRED AS A RESULT OF THE REUSE OF THIS DRAWING FOR ANY OTHER PROJECT.

CONSULTANTS

**Walmart**  
PUYALLUP, WA  
310 31ST AVENUE SE, PUYALLUP, WA 98374  
STORE NO. 2405-278  
JOB NUMBER: WMLGPP0402 | PHOTO: 192, GROCERY EXP

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CHECKED BY: AP  
DRAWN BY: MA/AK/SH  
PROTO CYCLE: 07/30/21  
DOCUMENT DATE: 09/08/21

6729 REGISTERED ARCHITECT  
CHRISTOPHER K. DOERSCHLAG  
STATE OF WASHINGTON  
*[Signature]*  
09/15/2021

DOCUMENTS THAT DO NOT HAVE THE ARCHITECT OR ENGINEER OF RECORD SEAL AND SIGNATURE SHALL BE CONSIDERED NOT FOR CONSTRUCTION

**RESPONSIBILITY MATRIX**

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS. EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT HIMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

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CONSULTANTS

Walmart logo and address: PUYALLUP, WA 310 31ST AVENUE SE. PUYALLUP, WA 98374 STORE NO. 24052278

ISSUE BLOCK table with columns for issue number, description, and date.

CHECKED BY: SME DRAWN BY: MA/AK/SH

REGISTERED ARCHITECT: CHRISTOPHER K. DOERSCHLAG, STATE OF WASHINGTON

ABBREVIATION LEGEND

Table with columns for ABBR, GENERAL ABBREVIATIONS, and DEFINITION.

DEFINITION LEGEND

FINAL MERCHANDISE PLAN - FINALIZED MERCHANDISE PRINT FROM WM ALSO REFERRED TO AS THE DEAL BOX COPY

SITE VERIFICATION REQUIREMENTS:

- 1. THE ARCHITECT HAS MADE A SCOPE VISIT WITH MEASUREMENTS AND PHOTOGRAPHS OF EXISTING CONDITIONS AND THE ARCHITECTURAL DRAWINGS INDICATE EXISTING CONDITIONS...

GENERAL CONSTRUCTION REQUIREMENTS:

- 1. ALL WORK SHALL BE DONE IN A SAFE AND WORKMANLIKE MANNER AND IN STRICT ACCORDANCE WITH THE LOCAL AND/OR STATE (IF APPLICABLE) BUILDING CODES, NATIONAL ELECTRIC CODE, ADA-ADAAG AND OTHER ADOPTED ACCESSIBILITY STANDARDS, OSHA, AND ALL APPLICABLE CODES, REGULATIONS, ORDINANCES AND AUTHORITIES HAVING JURISDICTION (AHJ).

DEMOLITION REQUIREMENTS:

- 1. ALL DEMOLITION SHALL BE CARRIED OUT IN A SAFE MANNER AND IN STRICT ACCORDANCE WITH OSHA REGULATIONS.

SIGNAGE LEGEND

- 1. REQUIRED ACCESSIBLE ELEMENTS SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AT THE FOLLOWING LOCATIONS: A. ACCESSIBLE ENTRANCES WHERE NOT ALL ENTRANCES ARE ACCESSIBLE...

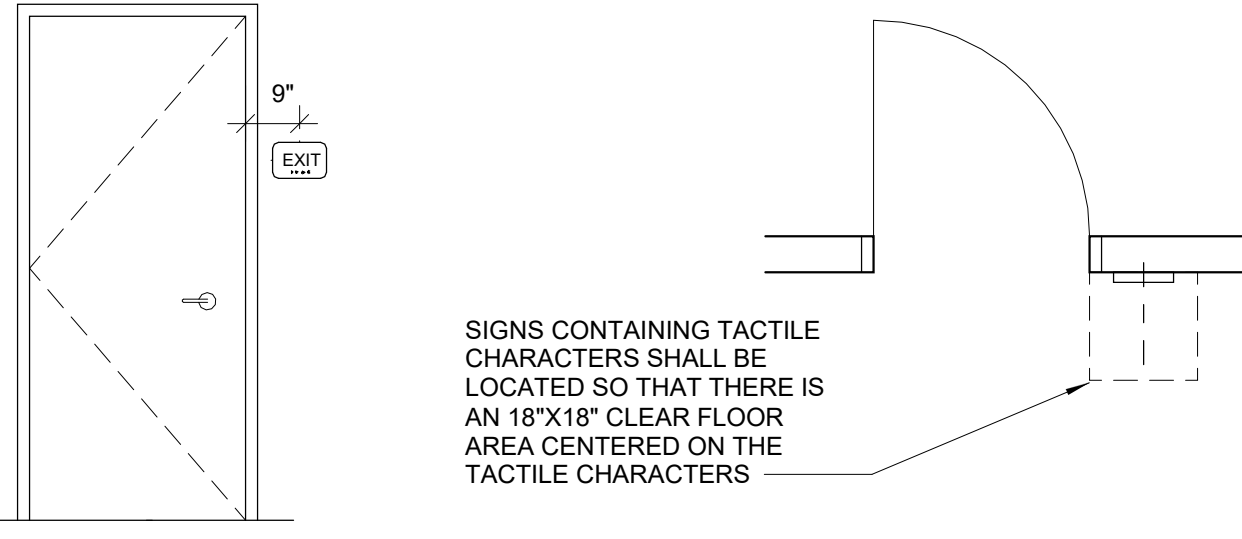
SYMBOLS LEGEND

- X-XX REFERENCE AT KEYNOTE INDICATOR KEYNOTE INDICATOR
- SALES IN ADDITION TO THE ROOM FINISH SCHEDULE, A KEYNOTE OR BLOCK OF KEYNOTES ATTACHED TO THE ROOM NAME TAG APPLY TO THE ENTIRE ROOM
- AB PARTITION TYPE INDICATOR

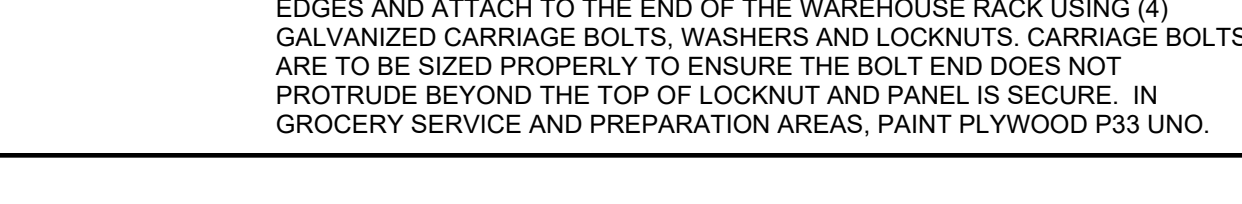
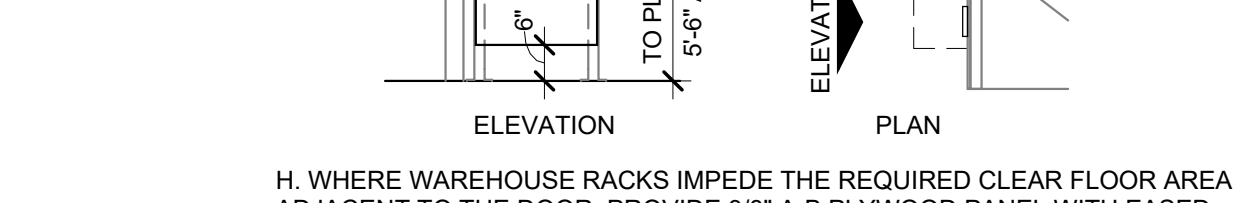
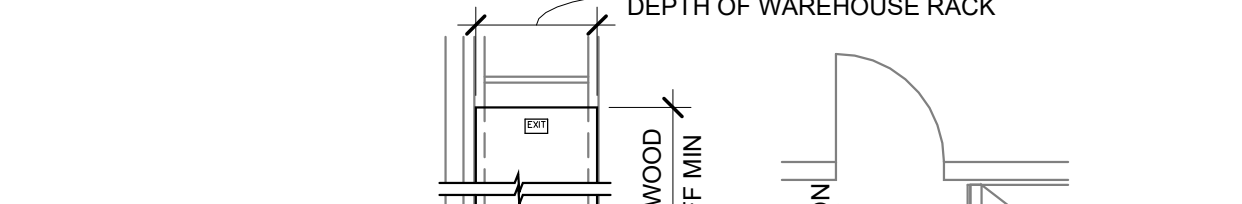
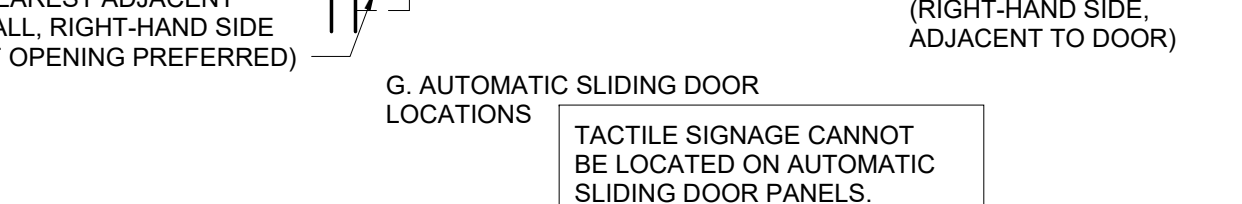
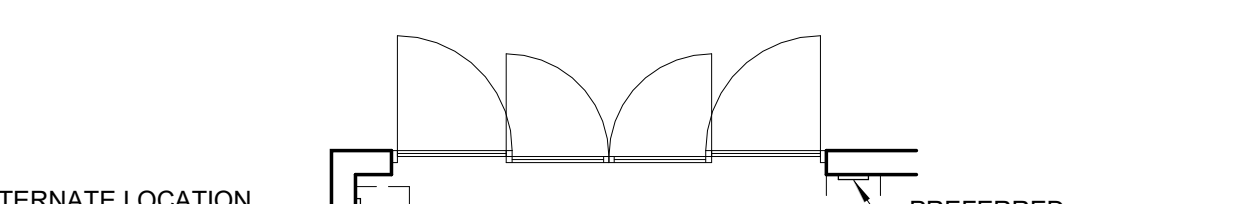
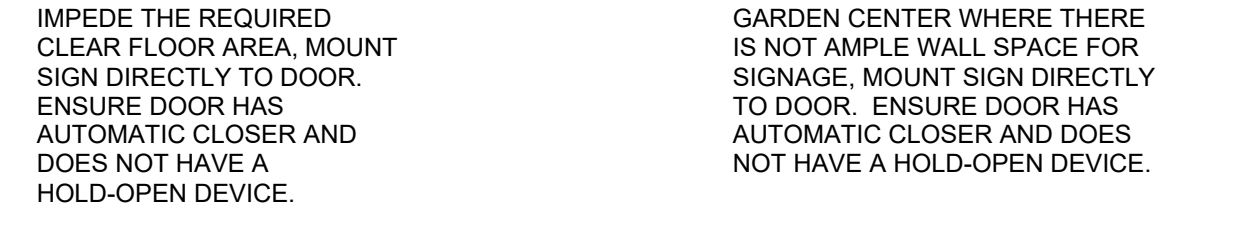
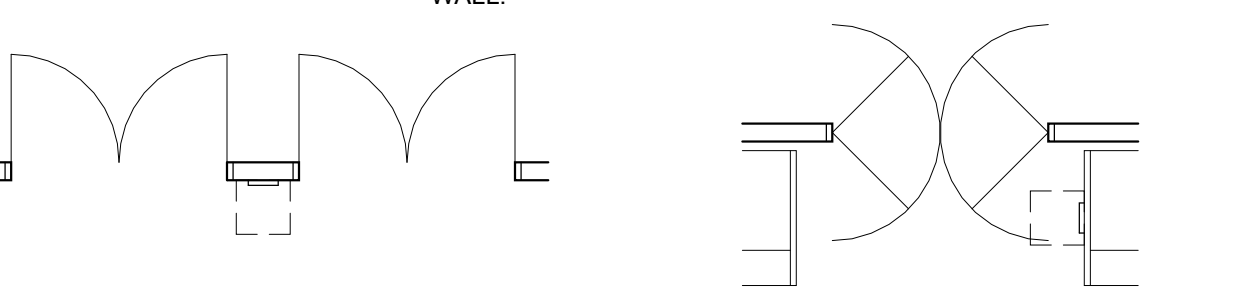
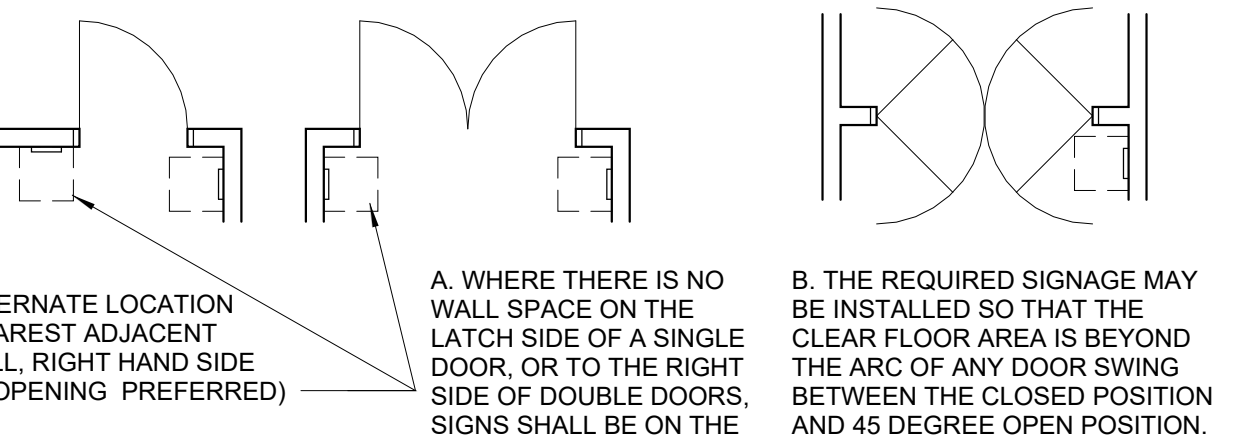
TACTILE EXIT SIGN

- 1. A TACTILE SIGN STATING "EXIT" AND COMPLYING WITH ICC 117.1 SHALL BE PROVIDED ADJACENT TO EACH DOOR TO AN EXIT PASSAGEWAY AND THE EXIT DISCHARGE. REF FLOOR PLANS FOR LOCATIONS.

PREFERRED SOLUTION



ALTERNATE SOLUTIONS



EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT AS-BUILT CONDITIONS. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELVES WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

**ENVELOPE COMPLIANCE SUMMARY**

2018 WSEC Compliance Form for Commercial Buildings including Group R2, R3 & R4 over 3 stories and all R1 Administered by: ©2022 NEEA. All rights reserved

Project & Applicant Information	Project Title	WALGP0402_2403-278_WA_Puyallup - 2018 WSEC - 2018 WSEC	For Building Department Use:	Date: Jun 24, 2022
	Project Address	310 31st AVE SE Puyallup, WA 98374		
	Applicant Name	Christian L. Poite		
	Applicant Phone	614-634-7481		
	Applicant Email	chris.lpoite@wdpartners.com		

General Occupancy	All Commercial	General Building Use Type	Retail, General Sales	Building Cond. Floor Area	200,364	
Project Scope	Building Addition	Space Conditioning Category:	Fully Conditioned	Project Cond. Floor Area	3,232	
	Alteration			Floors Above Grade	0	
Envelope Project Description					Compliance Method	Compliance Method 1 - General

Envelope Compliance Scope and Method	Scope	Space Conditioning Category	Compliance Method	WWR/SRR per Category	UA Calculation Adjustment	Fenestration Alternates	Compliance Verification
	Building Addition	Fully Conditioned	Component performance	0.97% / 0%	None selected	No alternates selected	COMPLIES

Air Barrier Testing: Air barrier testing not included. Air Barrier Comments: Building consists of painted fully grouted CMU walls.

Project Title	WALGP0402_2403-278_WA_Puyallup - 2018 WSEC - 2018 WSEC	Date	Jun 24, 2022
Scope & Space Conditioning	BUILDING ADDITION - FULLY CONDITIONED	Compliance Verification	COMPLIES
Window-to-wall Ratio	0.97%	Skylight-to-roof-ratio	0%
Vertical Fenestration Alternate	No alternates selected		

Opaque Envelope Assemblies									
Roof/Ceiling	Location in Documents	Assembly ID	Assembly Location	Cavity	Insulation R-Values		U-Factor	Net Area (SF)	
Insulation entirely above deck	OPI Detail 2	946	Exterior		Continuous (% penetration)	2nd Layer (MB Roof)	U-0.026	3,169	
U-Factor Source: Computed					U-Factor Source Description: Comcheck				
Is this assembly exterior or interior?: Exterior									
Walls	Location in Documents	Assembly ID	Assembly Location	Cavity	Continuous (% penetration)	Insulated Wall Furring	U-Factor	Net Area (SF)	
Mass (concrete masonry) - Commercial	OPI Detail 2	South Wall	Yes		R-9.8 (< 0.04%)	No	U-0.085	1,128	
Is CMU wall eligible for wall insulation exception?: No									
Space type enclosed by CMU walls: (Select One)									
Does assembly include wall furring?: No									
U-Factor Source: Computed					U-Factor Source Description: Inverse of CMU r-value from NCMA plus insulation vendor r-value				
Mass (concrete masonry) - Commercial	OPI Detail 2	North Wall	Yes		R-9.8 (< 0.04%)	No	U-0.085	776	
Is CMU wall eligible for wall insulation exception?: No									
Space type enclosed by CMU walls: (Select One)									
Does assembly include wall furring?: No									
U-Factor Source: Computed					U-Factor Source Description: Inverse of CMU r-value from NCMA plus insulation vendor r-value				
Mass (concrete masonry) - Commercial	OPI Detail 2	East Wall	Yes		R-9.8 (< 0.04%)	No	U-0.085	1,743	
Is CMU wall eligible for wall insulation exception?: No									
Space type enclosed by CMU walls: (Select One)									
Does assembly include wall furring?: No									
U-Factor Source: Computed					U-Factor Source Description: Inverse of CMU r-value from NCMA plus insulation vendor r-value				
Mass (concrete masonry) - Commercial	OPI Detail 2	West Wall	Yes		R-9.8 (< 0.04%)	No	U-0.085	543	
Is CMU wall eligible for wall insulation exception?: No									
Space type enclosed by CMU walls: (Select One)									
Does assembly include wall furring?: No									
U-Factor Source: Computed					U-Factor Source Description: Inverse of CMU r-value from NCMA plus insulation vendor r-value				
Slab-on-grade Floors	Location in Documents	Assembly ID	Assembly Location	Slab Edge	Under Slab	F-Factor	Perimeter Length (SF)		
Unheated slab	Sheet S1	946	At grade level	R-10	R-10	F-0.54	184		
Slab Insulation Method: 2 ft vertical (from top of slab downward)				F-Factor Source: WSEC Appendix A					
F-Factor Source Description:									
Fenestration & Opaque Door Assemblies									
Glazed Doors	Location in Documents	Assembly ID	Assembly Location	Orientation	Shading (PF)	Fenestration SHGC	Fenestration U-Factor	Rough Opening (SF)	
Sliding glass door	Sheet OPI Detail 2	946A	Exterior	North Facing	PF = 0.2	SHGC=0.230	U-0.400	41	
U-Factor & SHGC Source: NFRC Rating							U-Factor Source Description:		
Is this assembly exterior or interior?: Exterior									

Project Title	WALGP0402_2403-278_WA_Puyallup - 2018 WSEC - 2018 WSEC	Date	Jun 24, 2022
U x A Calculation	BUILDING ADDITION - FULLY CONDITIONED	COMPLIES	
Opaque Envelope Assemblies			
Roof/Ceiling	Assembly ID	Roof/Ceiling Assembly U-Factor	Net Area (SF)
Insulation entirely above deck	946	0.026	3,169.0
U x A	82.4	0.027	3,169.0 (1)
Walls	Assembly ID	Wall Assembly U-Factor	Net Area (SF)
Mass (concrete masonry) - Commercial	South Wall	0.085	1,128.0 (1)
Mass (concrete masonry) - Commercial	North Wall	0.085	776.0 (1)
Mass (concrete masonry) - Commercial	East Wall	0.085	1,743.0 (1)
Mass (concrete masonry) - Commercial	West Wall	0.085	543.0 (1)
U x A	95.9	0.104	1,128.0 (1)
	66.0	0.104	776.0 (1)
	148.2	0.104	1,743.0 (1)
	46.2	0.104	543.0 (1)
U x A	117.3		80.7
	181.3		56.5
Slab on Grade Floors	Assembly ID	F-Factor	Perimeter Length (LF)
Unheated slab	946	0.54	184.0 (1)
U x A	99.4	0.54	184.0 (1)
U x A	99.4		99.4
Glazed Doors	Assembly ID	Door Assembly U-Factor	Rough Opening (SF)
Sliding glass door	946A	0.400	41.0 (1)
U x A	16.4	0.40	41.0 (1)
U x A	16.4		16.4
Proposed Area	7,584	Proposed UxA	554
Target Area	7,584	Target UxA	637

Project Title	WALGP0402_2403-278_WA_Puyallup - 2018 WSEC - 2018 WSEC	Date	Jun 24, 2022
SHGC x A Calculation	BUILDING ADDITION - FULLY CONDITIONED	COMPLIES	
Fenestration and Opaque Door Assemblies			
Glazed Doors - North Facing	Assembly ID	PF	Glazed Door SHGC
Sliding glass door	946A	PF = 0.2	0.230
Rough Opening (SF)	41.0 (1)	SHGC x A	9.4
U x A	20.9	Glazed Door SHGC	0.51
U x A	20.9	Rough Opening (SF)	41.0 (1)
Proposed Area	41	Proposed SHGC x A	9
Target Area	41	Target SHGC x A	21

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 WALGP0402 | PHOTO: 192 GROCERY EXP

ISSUE BLOCK		
2	PR#2	03/18/22
4	ADD#6	6/23/2022

CHECKED BY: Checker  
 DRAWN BY: Author  
 PHOTO CYCLE: 07/30/21  
 DOCUMENT DATE: 09/08/21

*Christopher K. Doerschlag*  
 REGISTERED ARCHITECT  
 CHRISTOPHER K. DOERSCHLAG  
 STATE OF WASHINGTON  
 07/07/2022

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**ENVELOPE COMPLIANCE**

SHEET: **N2**

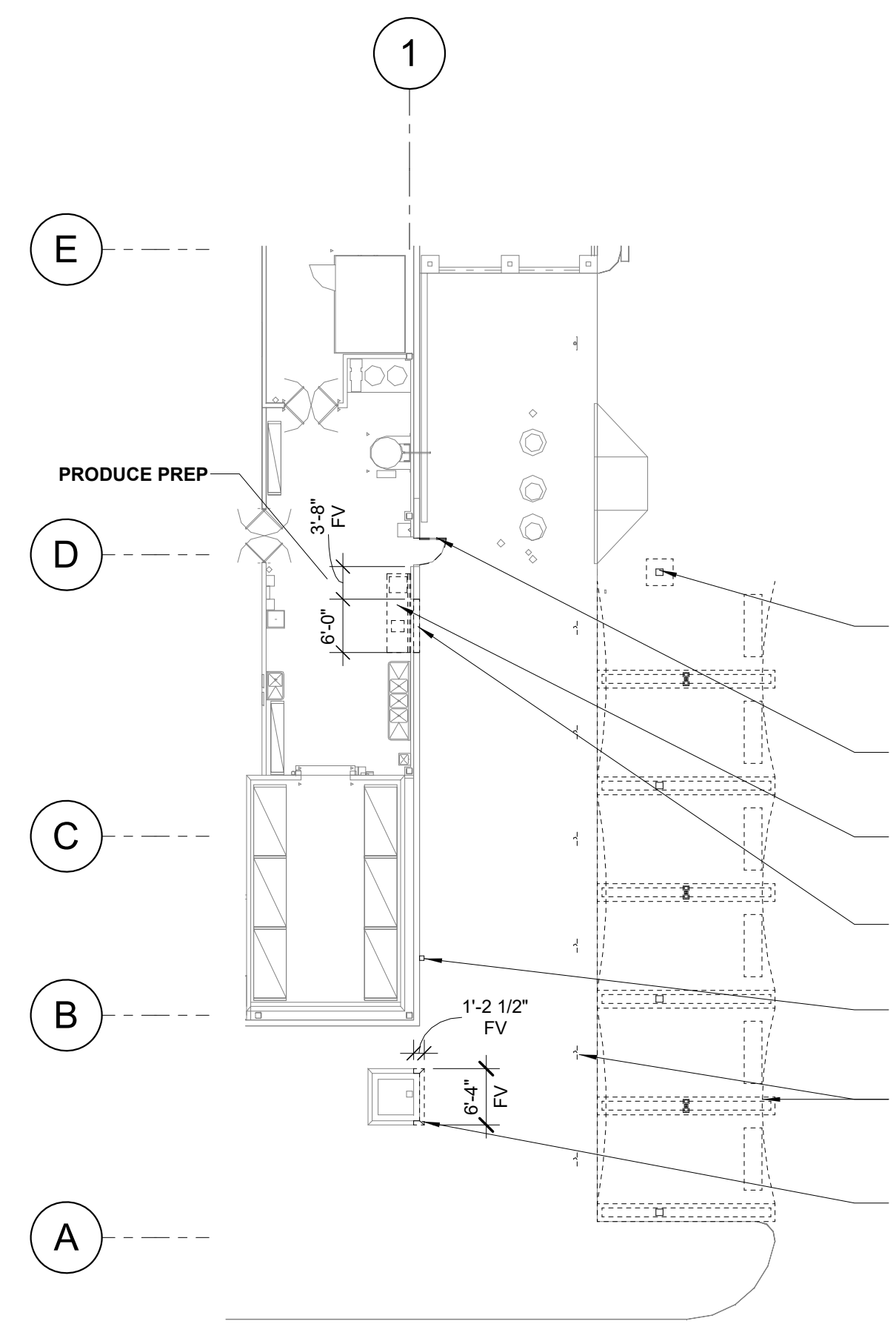
EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS. EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELVES WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

**SHEET NOTES**

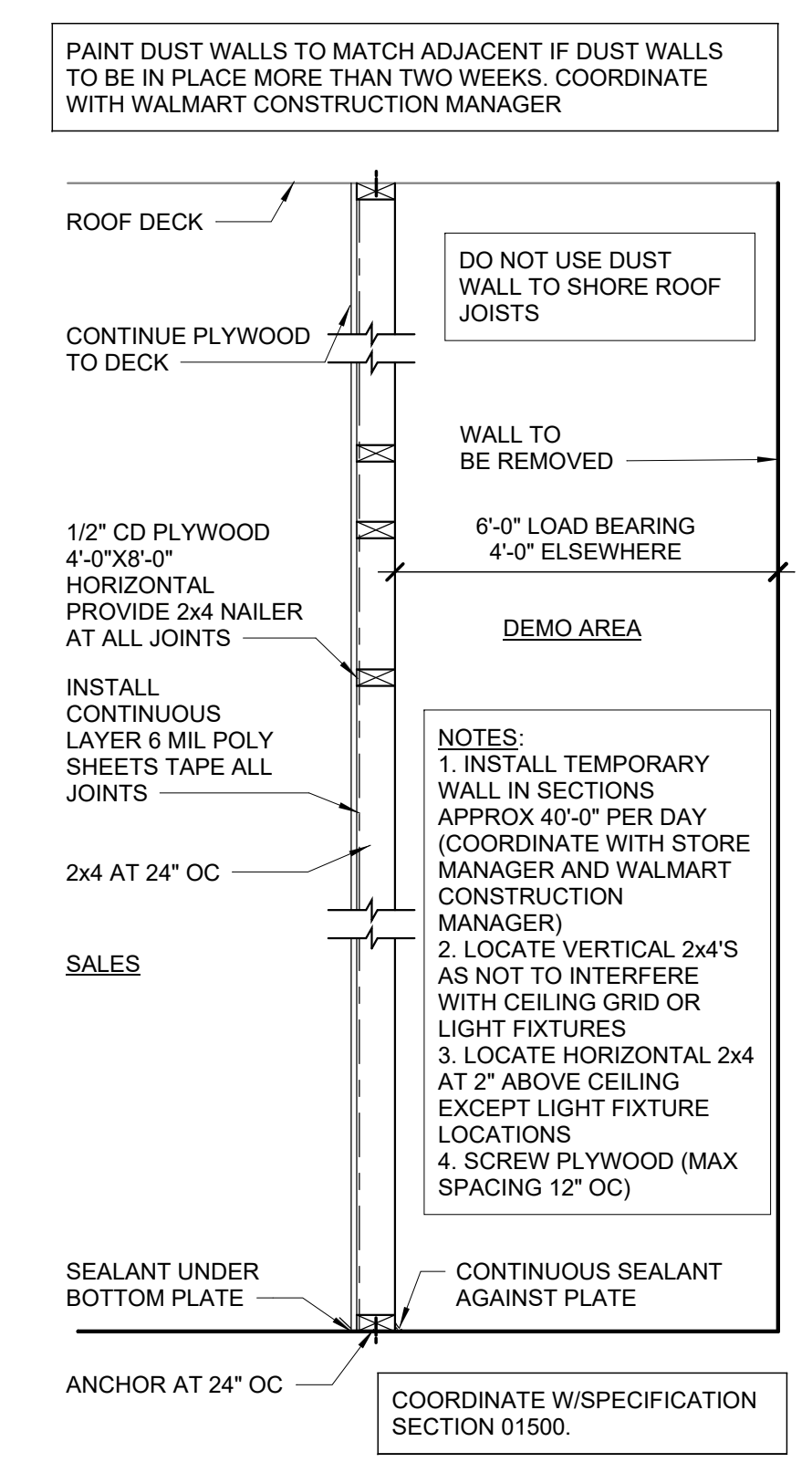
- DEMOLITION INCLUDES BUT IS NOT LIMITED TO ITEMS SHOWN DASHED. REF DEMOLITION REQUIREMENT NOTE ON N1 SHEET
- REMOVE ALL DOORS SHOWN DASHED. REFER TO ENLARGED PLANS AND DOOR SCHEDULE FOR DOOR AND FRAME REPLACEMENT.

**DEMOLITION LEGEND**

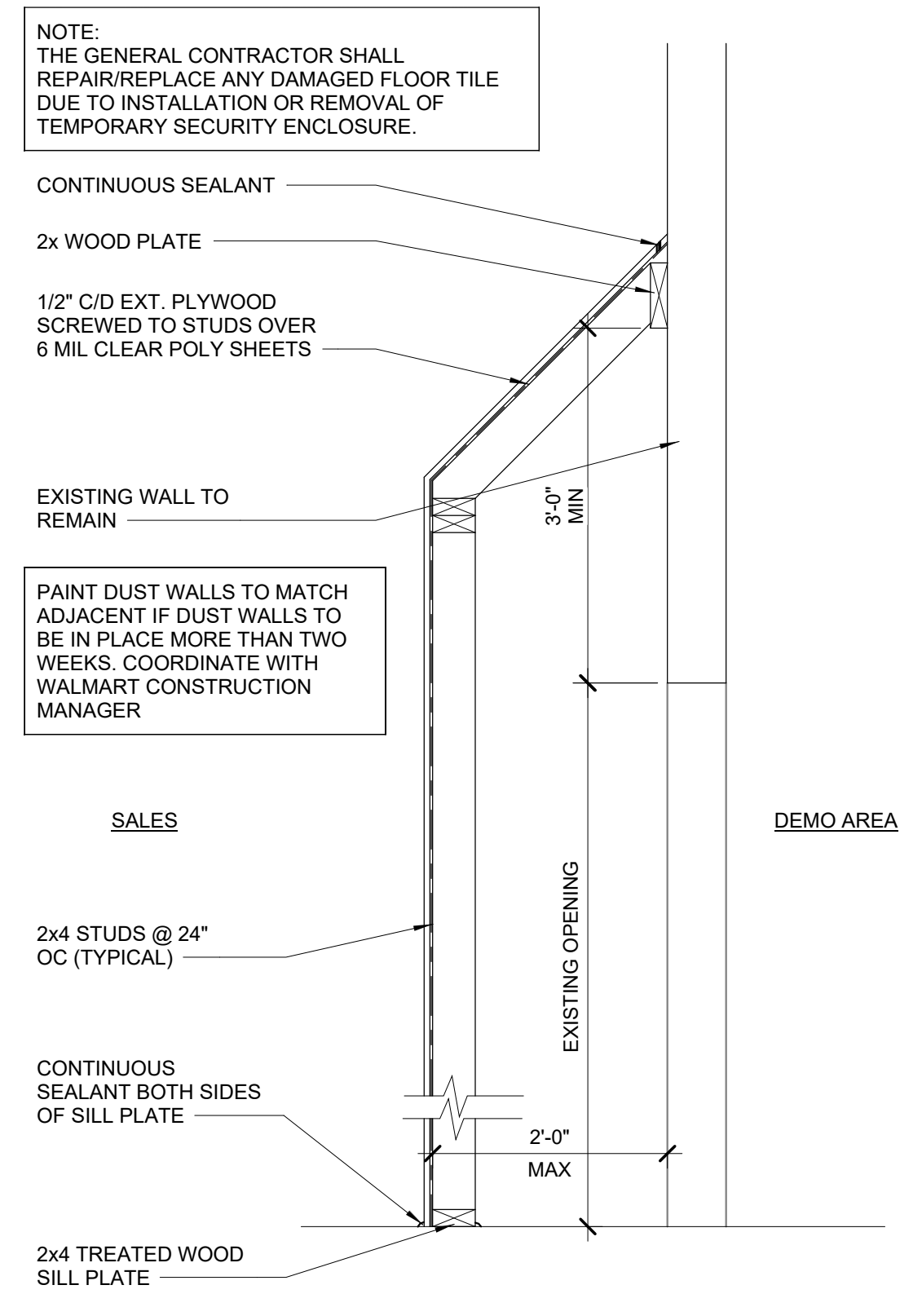
	EXISTING TO REMAIN
	DEMOLISH/REMOVE
	RELOCATE



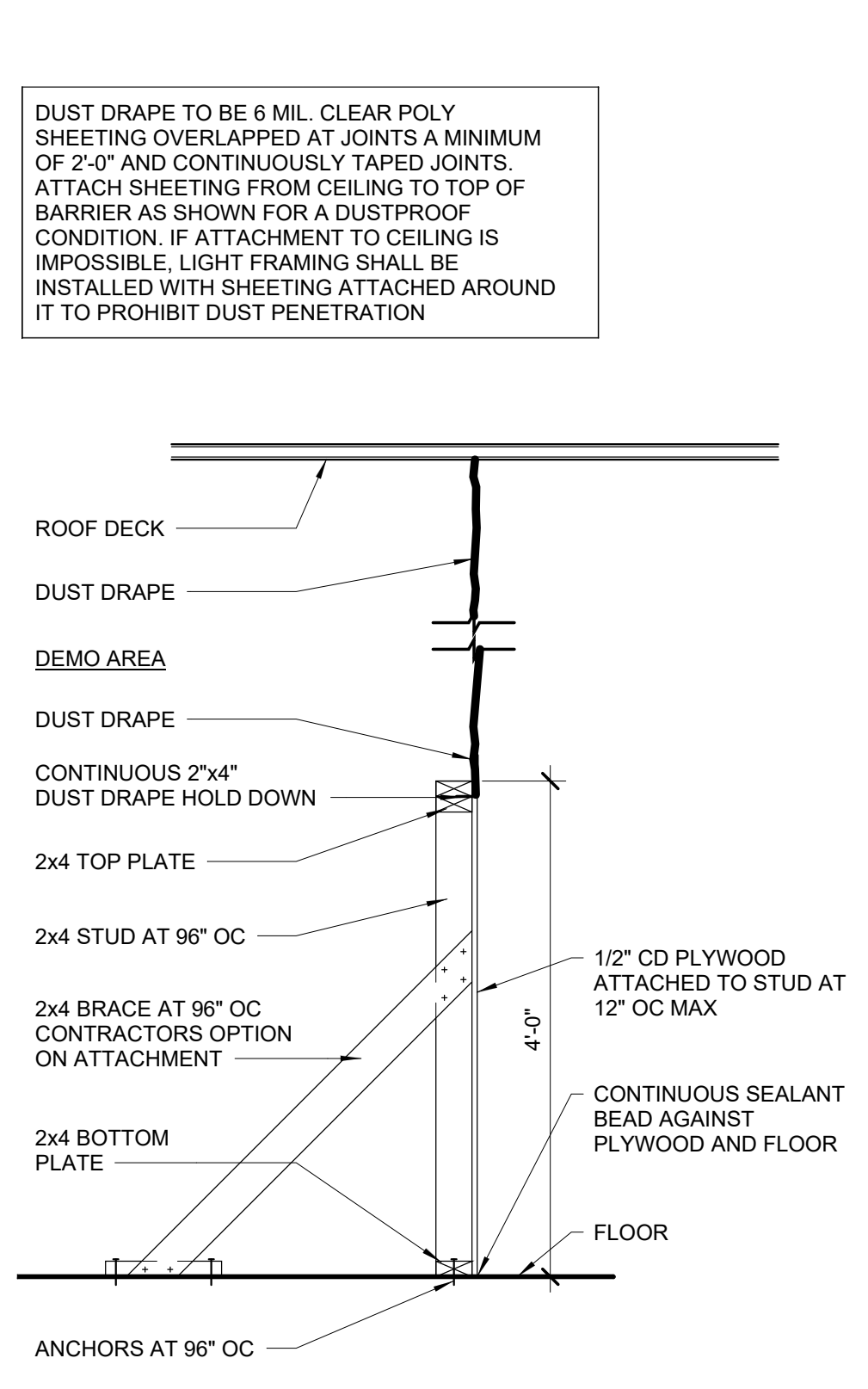
**3 ENLARGED DEMOLITION PLAN**  
1/16" = 1'-0"



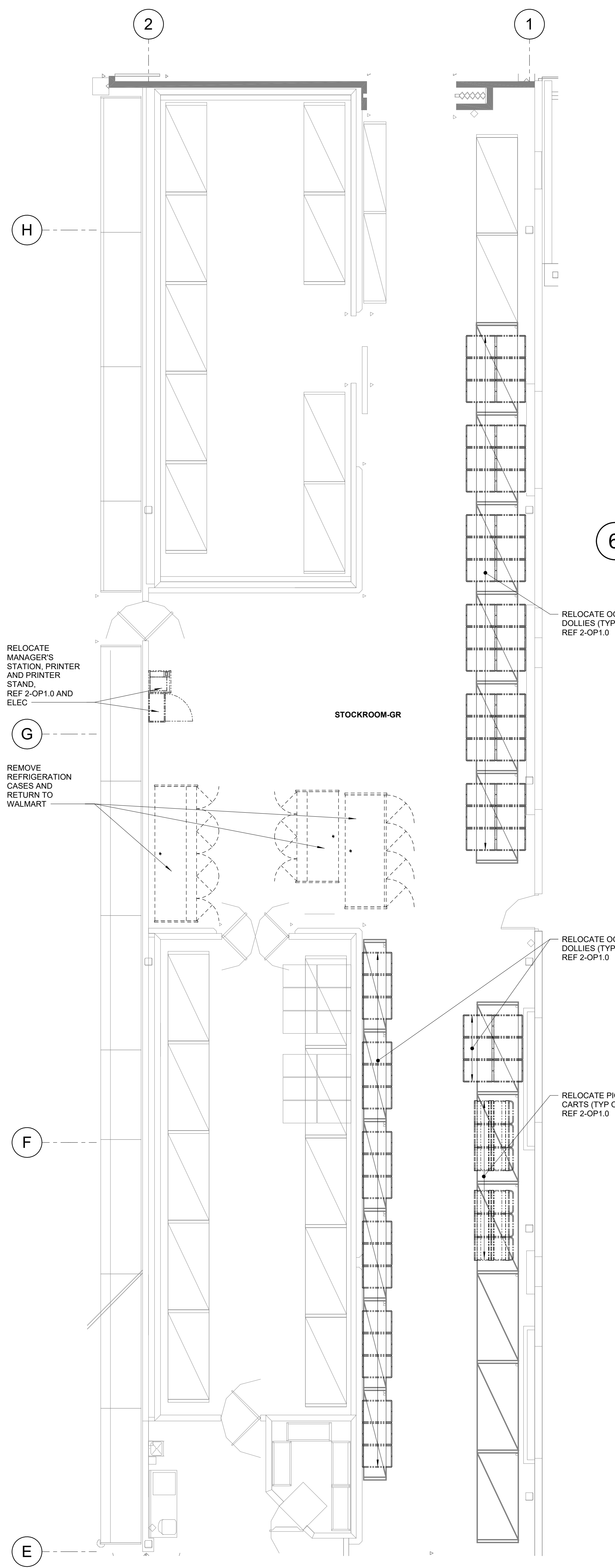
**4 DUST WALL SECTION**  
3/4" = 1'-0"



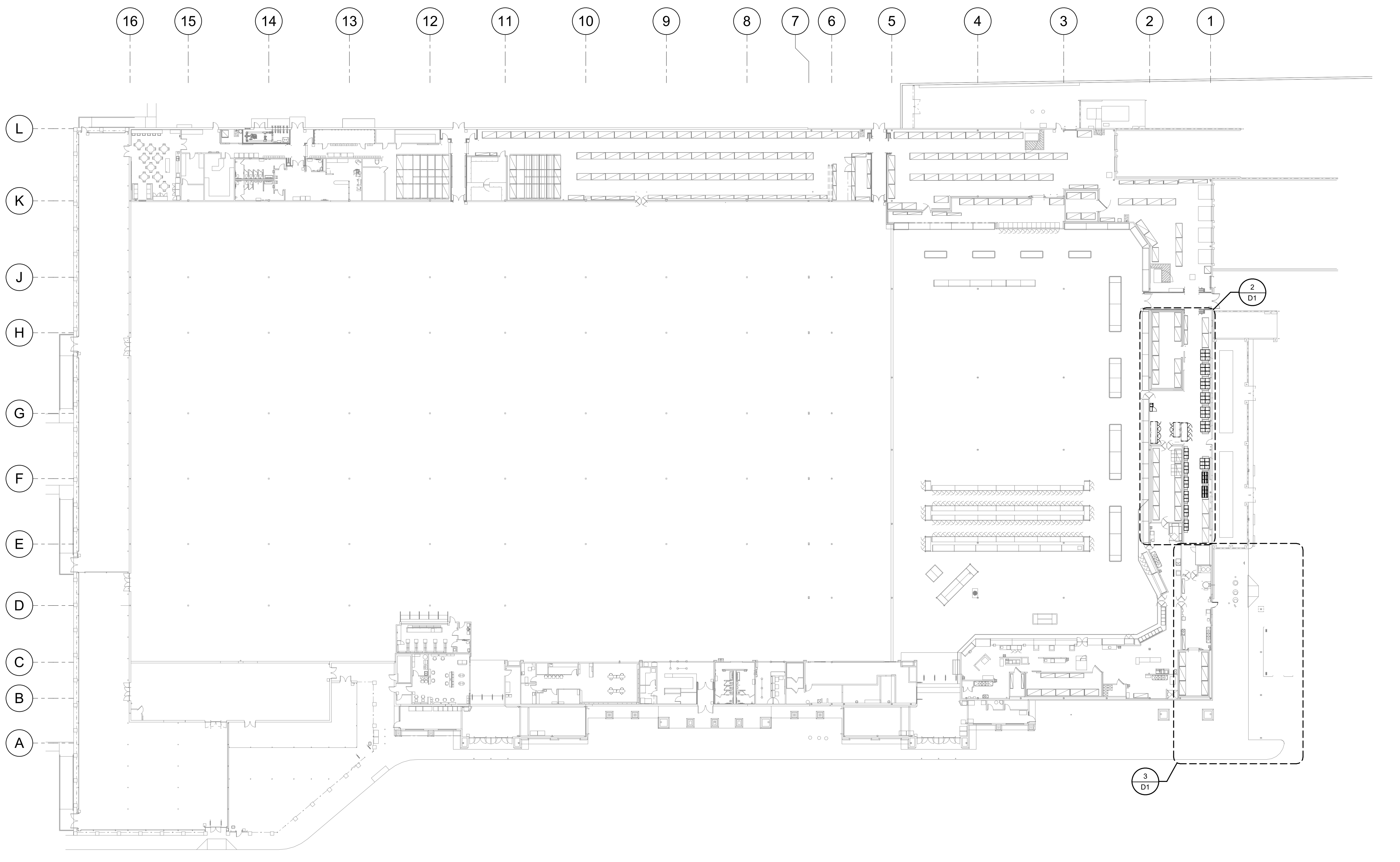
**5 SECURITY ENCLOSURE**  
3/4" = 1'-0"



**6 TEMPORARY BARRIER/DUST DRAPE**  
3/4" = 1'-0"



**2 ENLARGED DEMOLITION PLAN**  
3/16" = 1'-0"



**1 DEMOLITION PLAN**  
1" = 30'-0"

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KEYNOTES

10.44 PROVIDE TACTILE "EXIT" SIGN, REF N1.

SHEET NOTES

- 1. NOT USED.
- 2. NOT USED.
- 3. RELOCATION AND SETUP OF GONDOLAS AND/OR RACKING AS INDICATED ON FXS SHEETS WILL BE PERFORMED BY OTHERS. ANCHORING OF UPRIGHTS TO BE PERFORMED BY GENERAL CONTRACTOR.



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 614.634.7000 T

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NO.	DESCRIPTION	DATE	BY

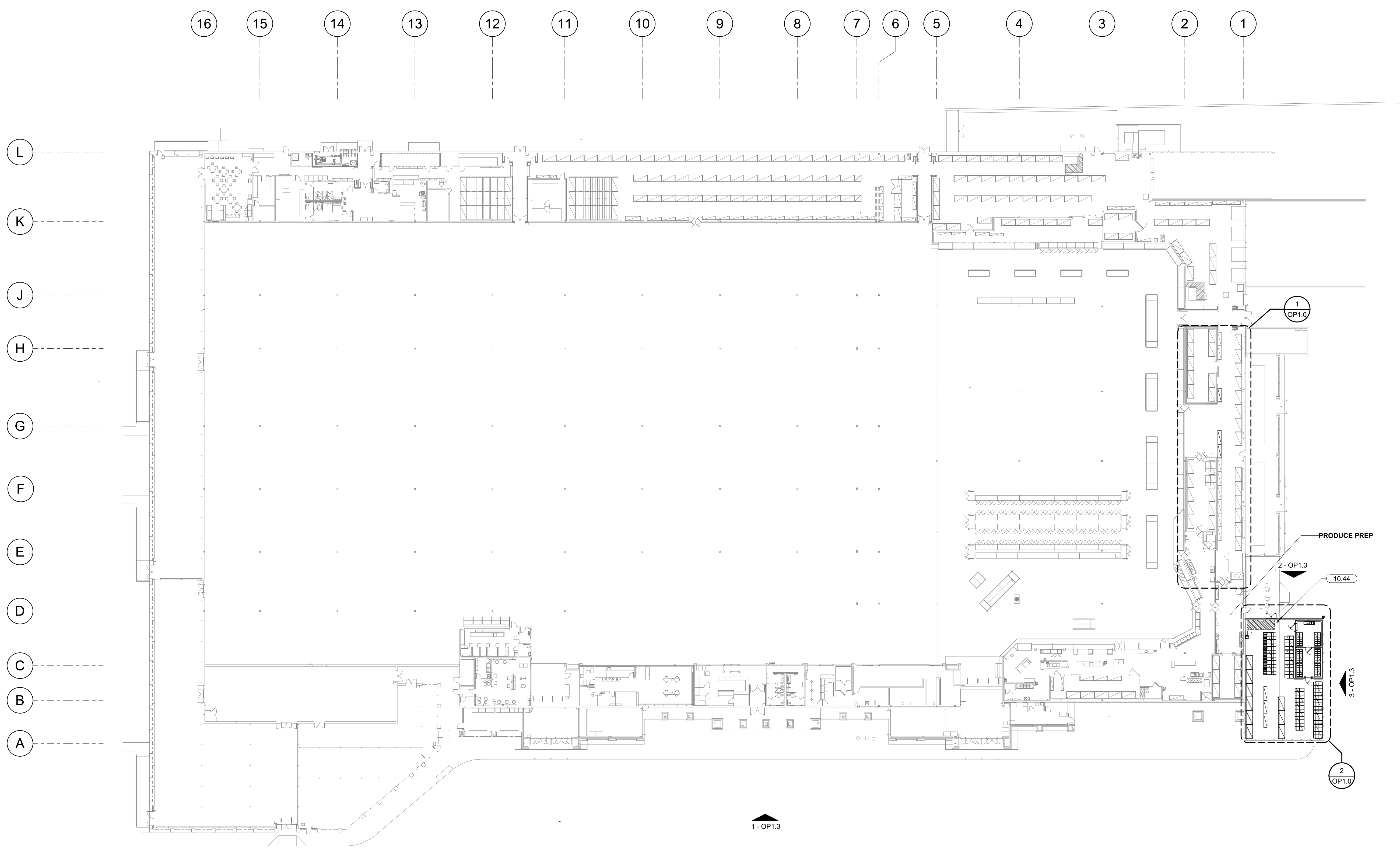
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 STATE OF WASHINGTON  
  
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FLOOR PLAN

SHEET: A1



1 FLOOR PLAN  
 1" = 30'-0"

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**SHEET NOTES**

1. INSTALL MOLDED PIPE FLASHING AT ALL NEW PIPE OR CONDUIT PENETRATIONS THROUGH ROOF. REF. MECHANICAL FOR LOCATIONS. REF. 4-A4

**ROOF LEGEND**



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4	ADD#6	6/23/2022

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PROTO CYCLE: 07/30/21  
DOCUMENT DATE: 09/08/21

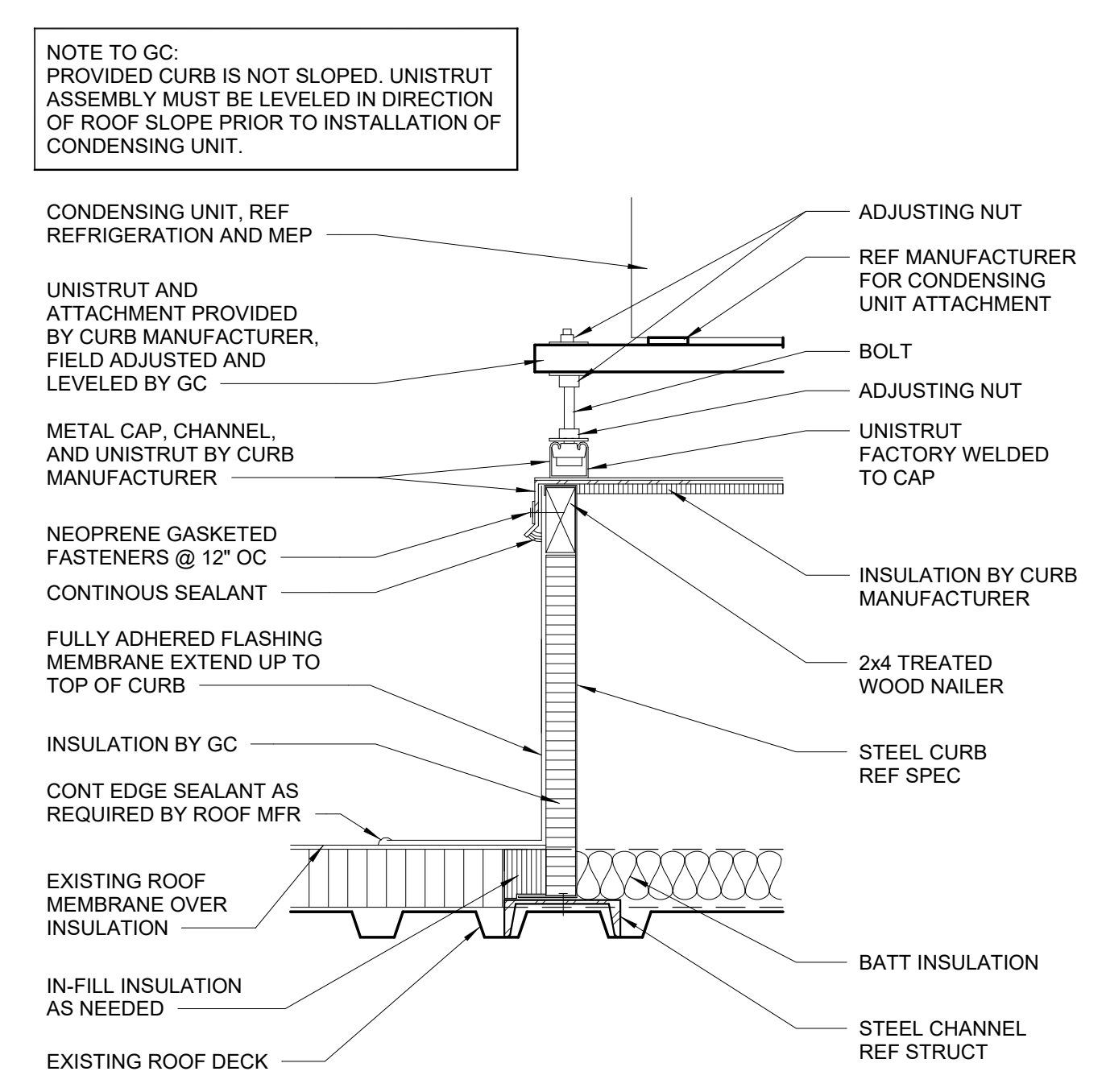
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STATE OF WASHINGTON  
07/07/2022

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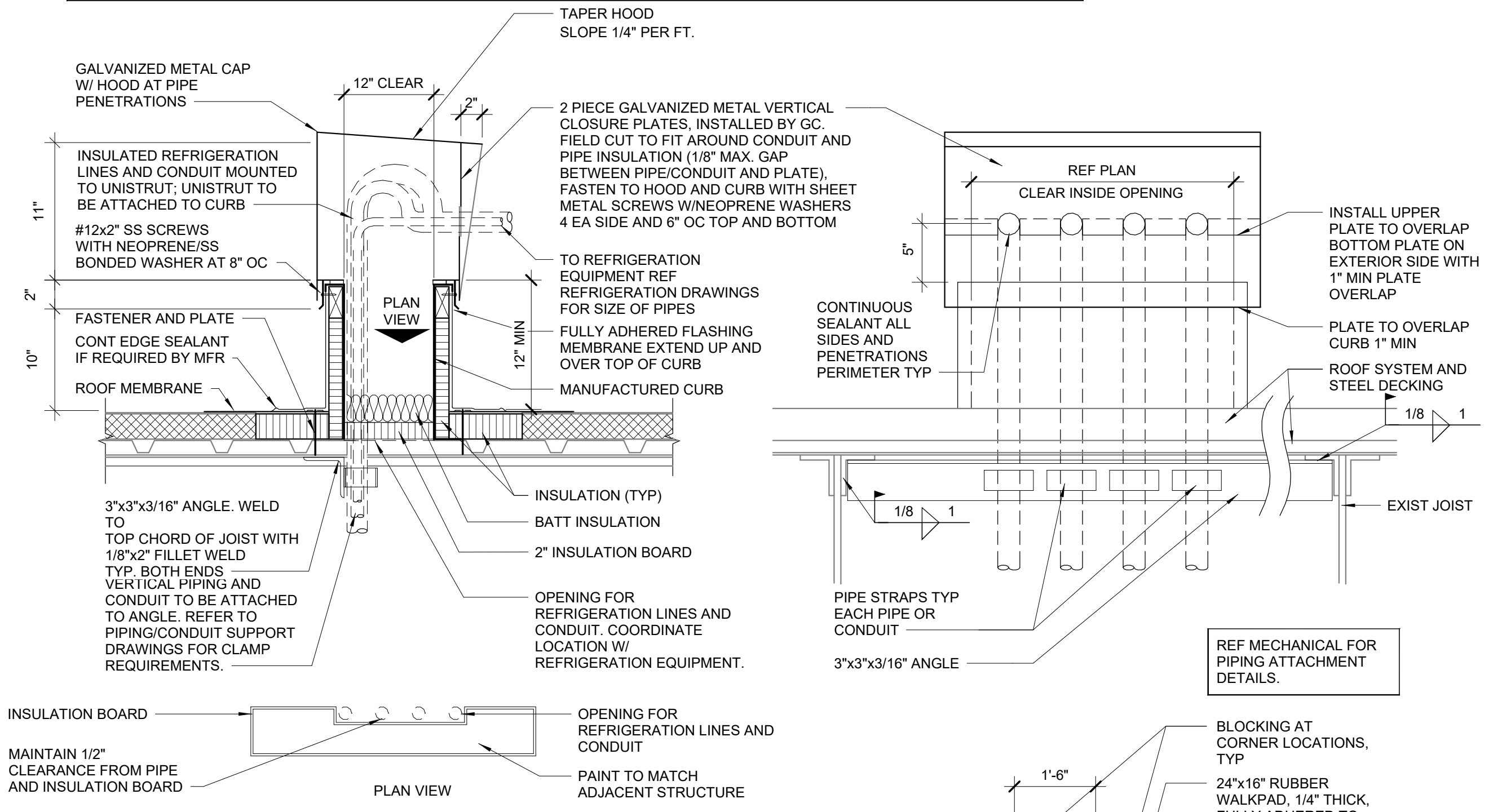
**ROOF PLAN AND DETAILS**

SHEET: **A4**

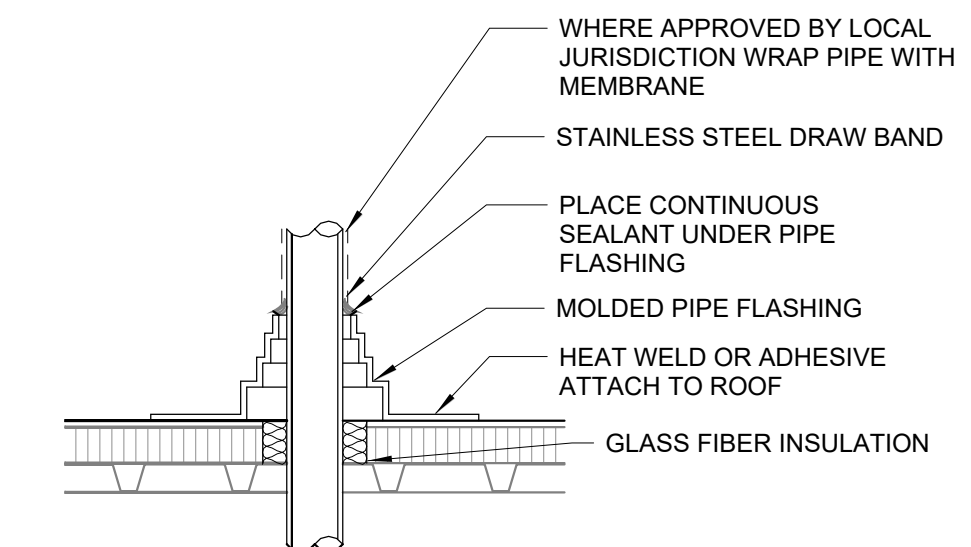
**INSTALLATION NOTES:**  
1. THE ROOF PENETRATION CURB, HOOD AND CLOSURE PLATES ARE FURNISHED BY OWNER AND INSTALLED BY GENERAL CONTRACTOR  
2. ALL HOOD PENETRATIONS SHALL BE THROUGH THE VERTICAL CLOSURE PLATES ONLY. PIPING AND CONDUIT SHALL BE INSTALLED BY THE TRADE CONTRACTORS WITH THE PIPE AND CONDUIT CENTERLINES 5" ABOVE THE TOP OF THE ROOF CURB WITH A MINIMUM OF 1" BETWEEN THE PIPE AND CONDUIT EXTERNAL SURFACE  
3. THE GENERAL CONTRACTOR SHALL CUT AND INSTALL THE VERTICAL CLOSURE PLATES AFTER ALL PIPING AND CONDUITS ARE INSTALLED AND SEAL ALL PENETRATIONS AS NOTED IN THE DETAIL AND PROVIDE CONTINUOUS SEALANT AT THE PERIMETER JOINT BETWEEN THE CLOSURE PLATES AND HOOD AND CURB WHERE THE CLOSURE PLATES OVERLAP. REF SEALANT SPECIFICATION. EXPANDING FOAM SEALANT SHALL NOT BE USED WHERE SEALANT IS EXPOSED TO THE EXTERIOR.  
4. EXTEND EXTERIOR REFRIGERANT AND WATER LINE EXTERNAL PVC INSULATION JACKET 1" INSIDE HOOD METAL CLOSURE PLATES.



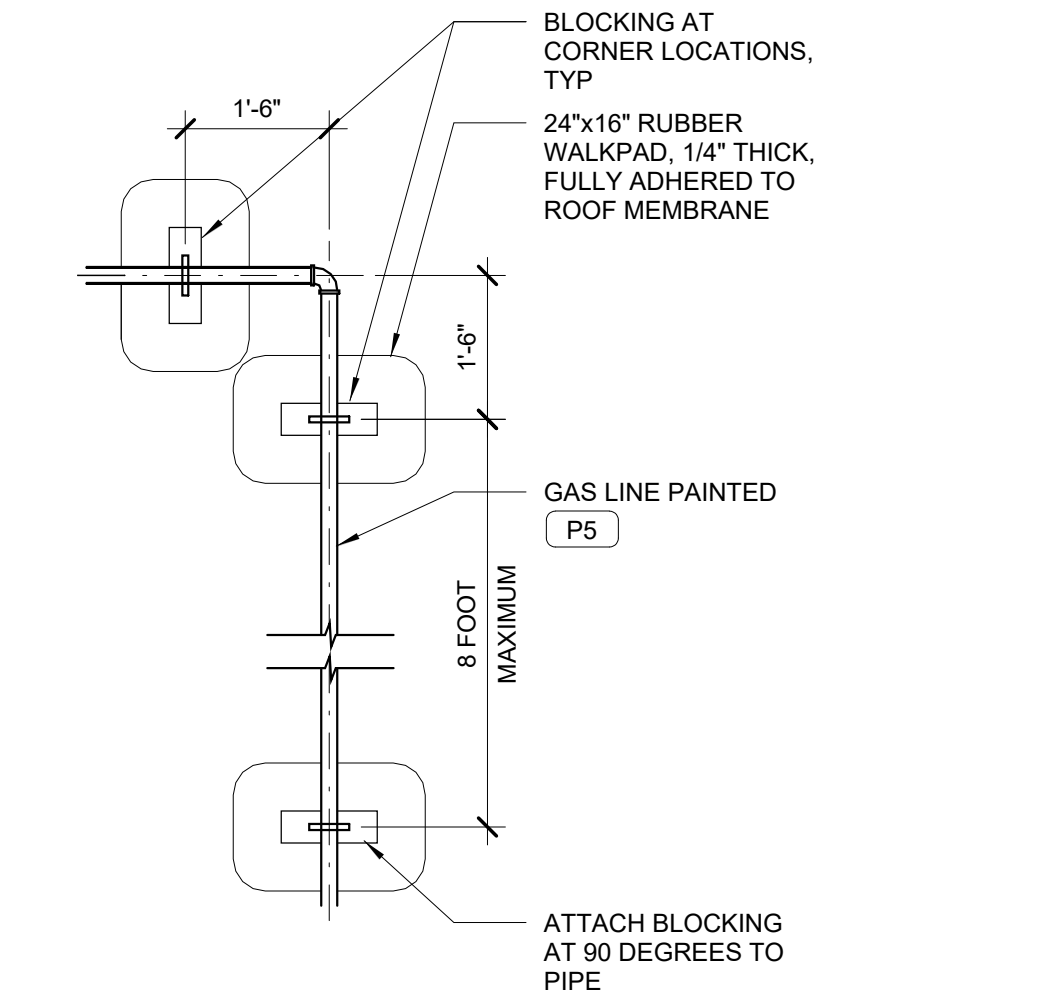
**7 CONDENSER UNIT CURB**  
1/12" = 1'-0"



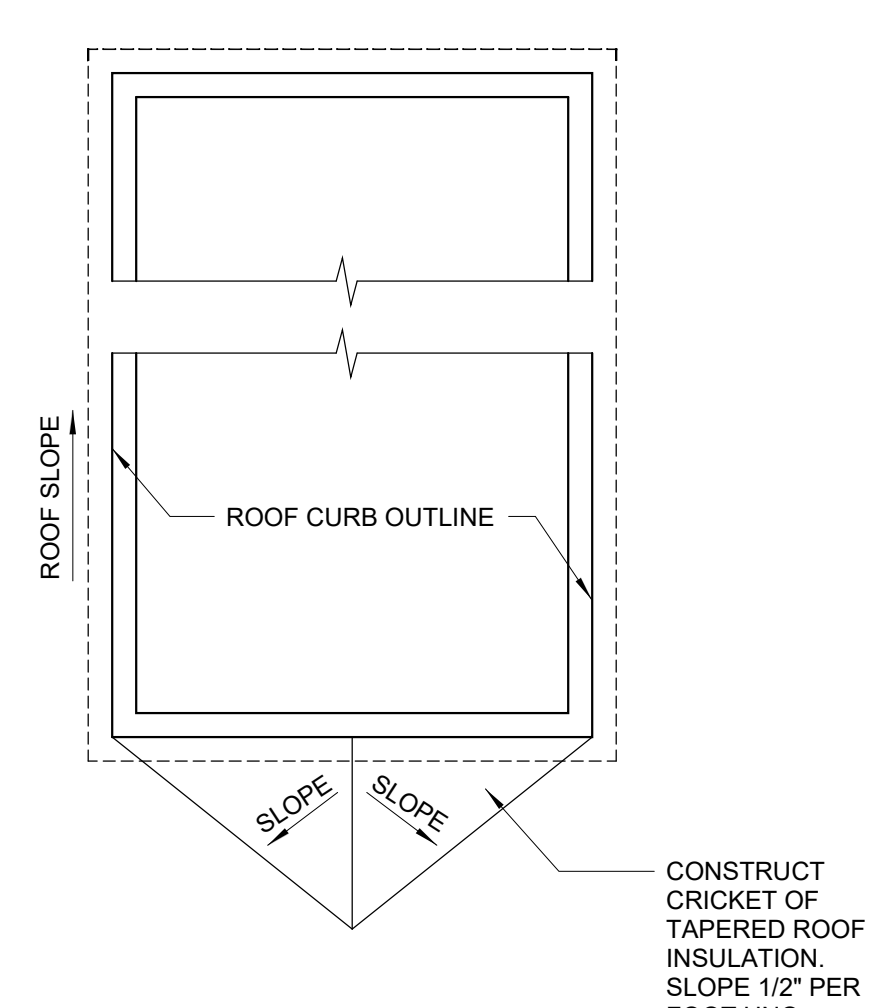
**6 REFRIGERATION LINE ROOF PENETRATION**  
1" = 1'-0"



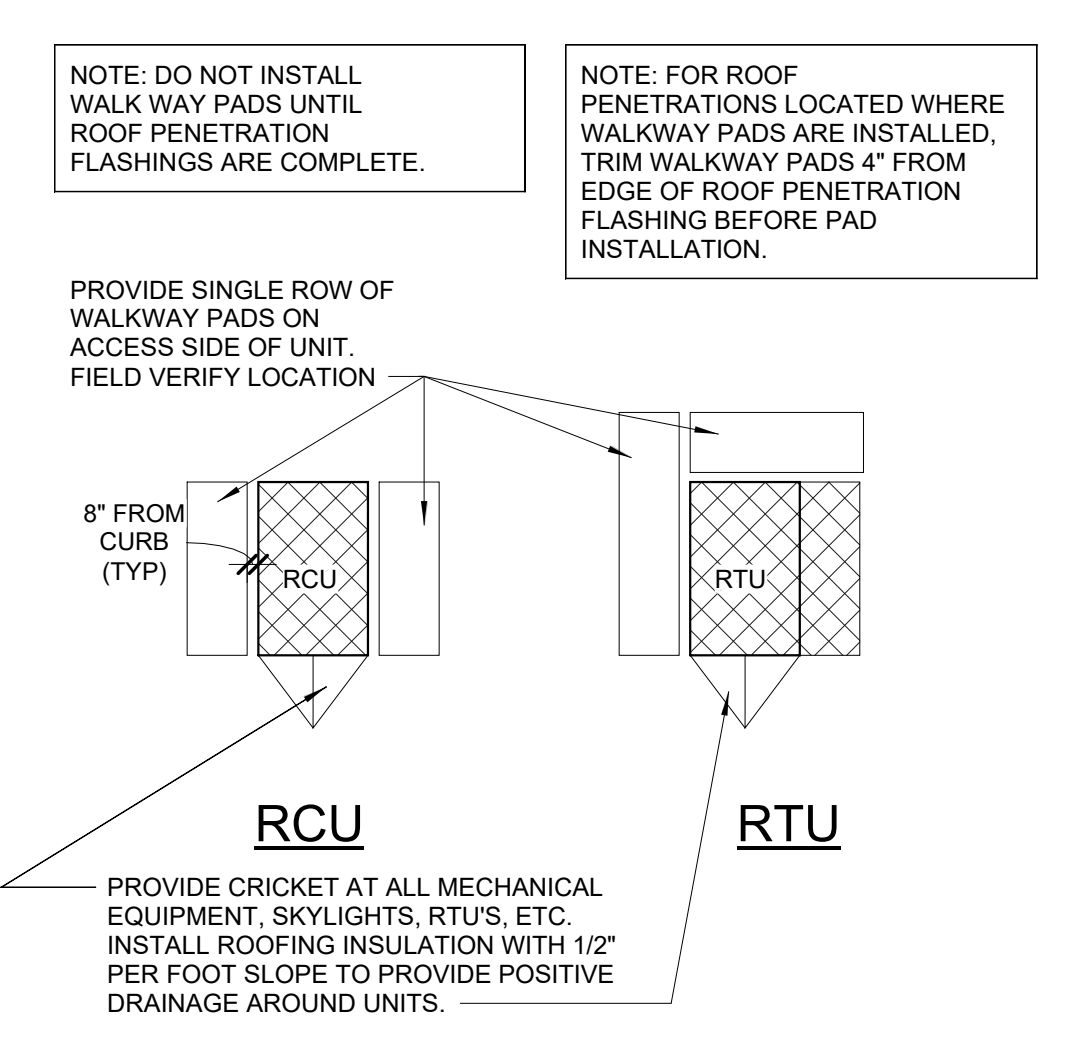
**5 ROOF PENETRATION**  
1" = 1'-0"



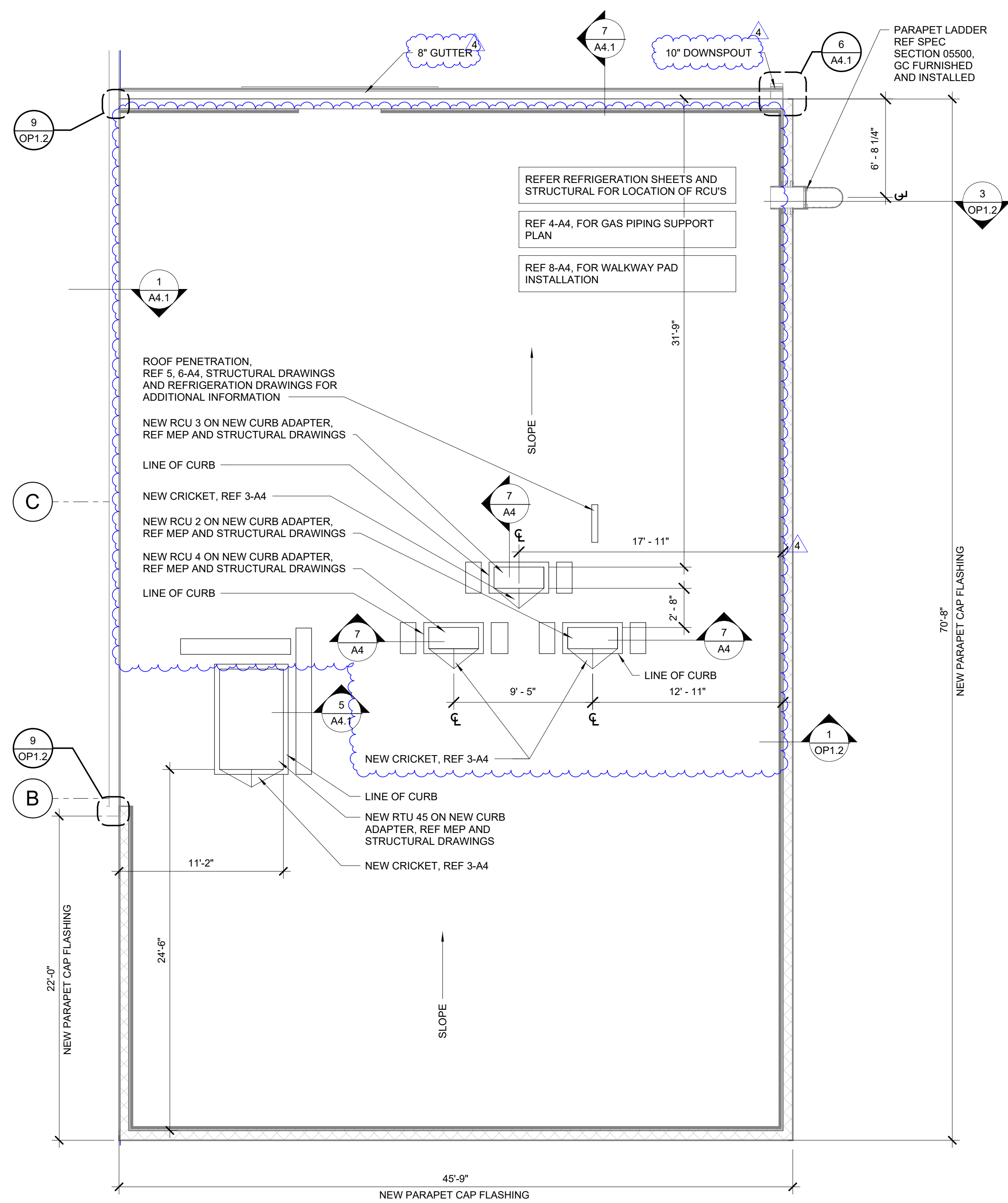
**4 PIPING SUPPORT PLAN**  
1/2" = 1'-0"



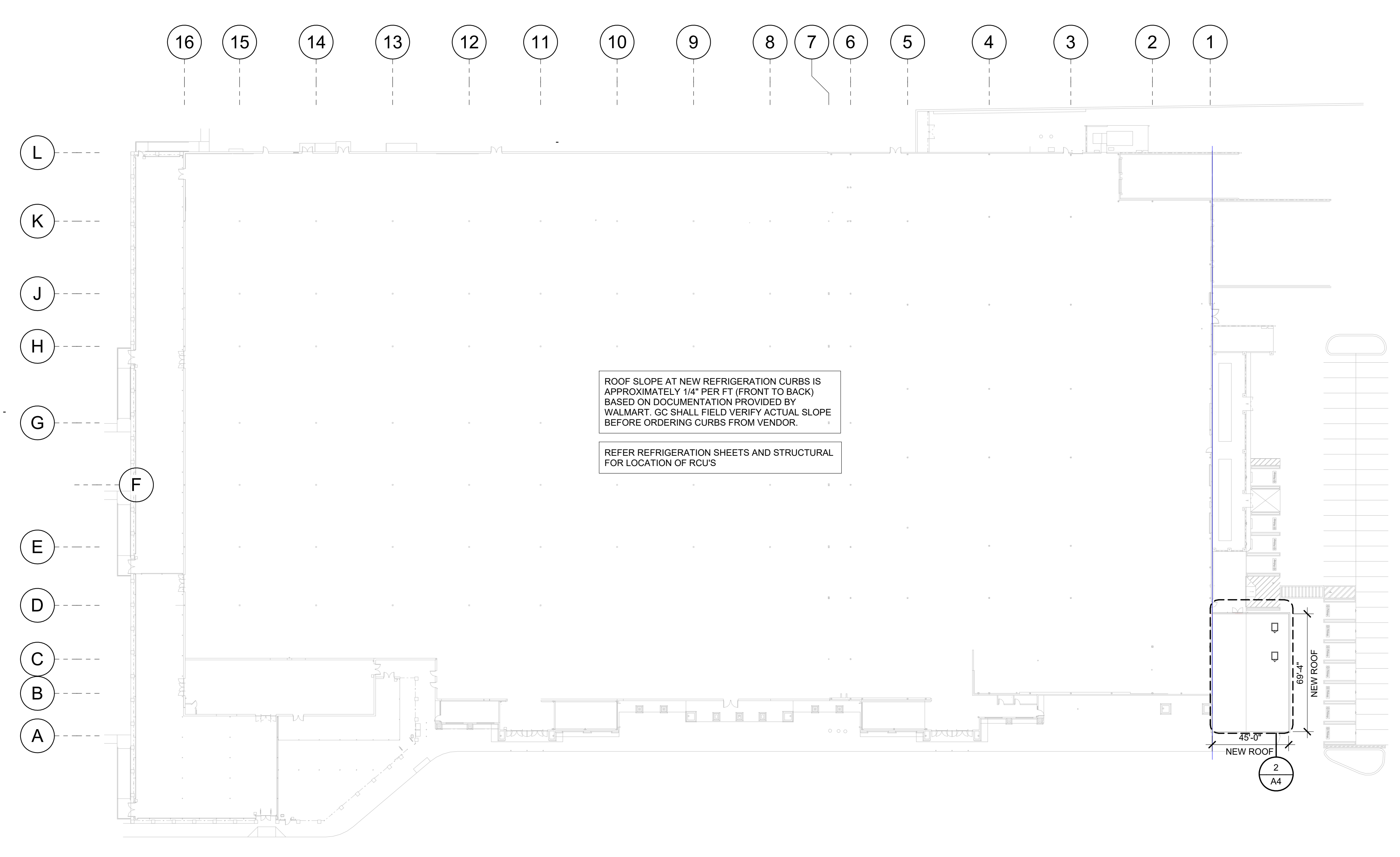
**3 CRICKET DETAIL**  
1/2" = 1'-0"



**8 PAD LAYOUT (TYP ALL UNITS)**  
12" = 1'-0"



**2 ENLARGED PARTIAL ROOF PLAN**  
3/16" = 1'-0"



**1 ROOF PLAN**  
1" = 40'-0"

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3	ADD#2	05/11/22
4	ADD#6	6/23/2022

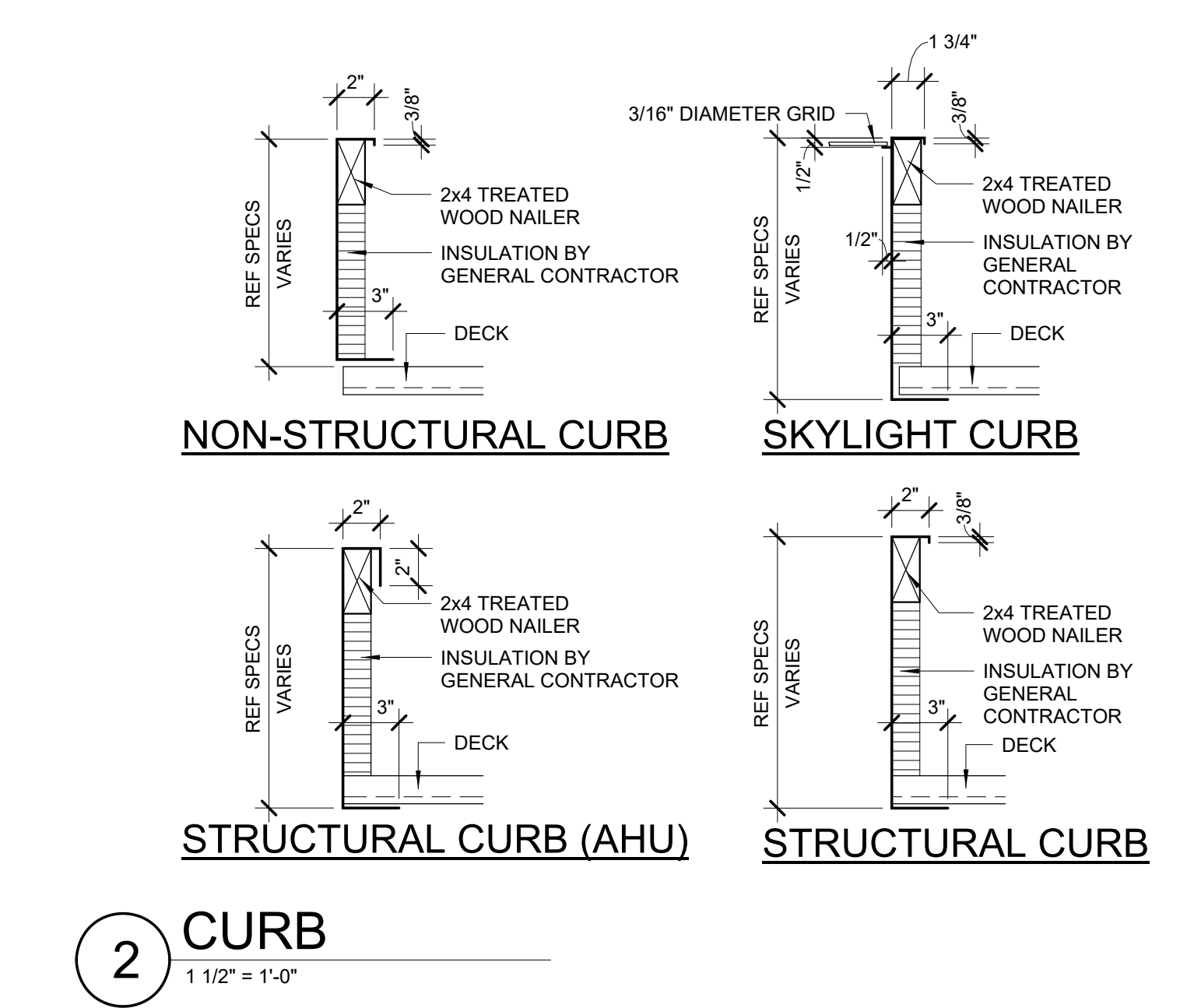
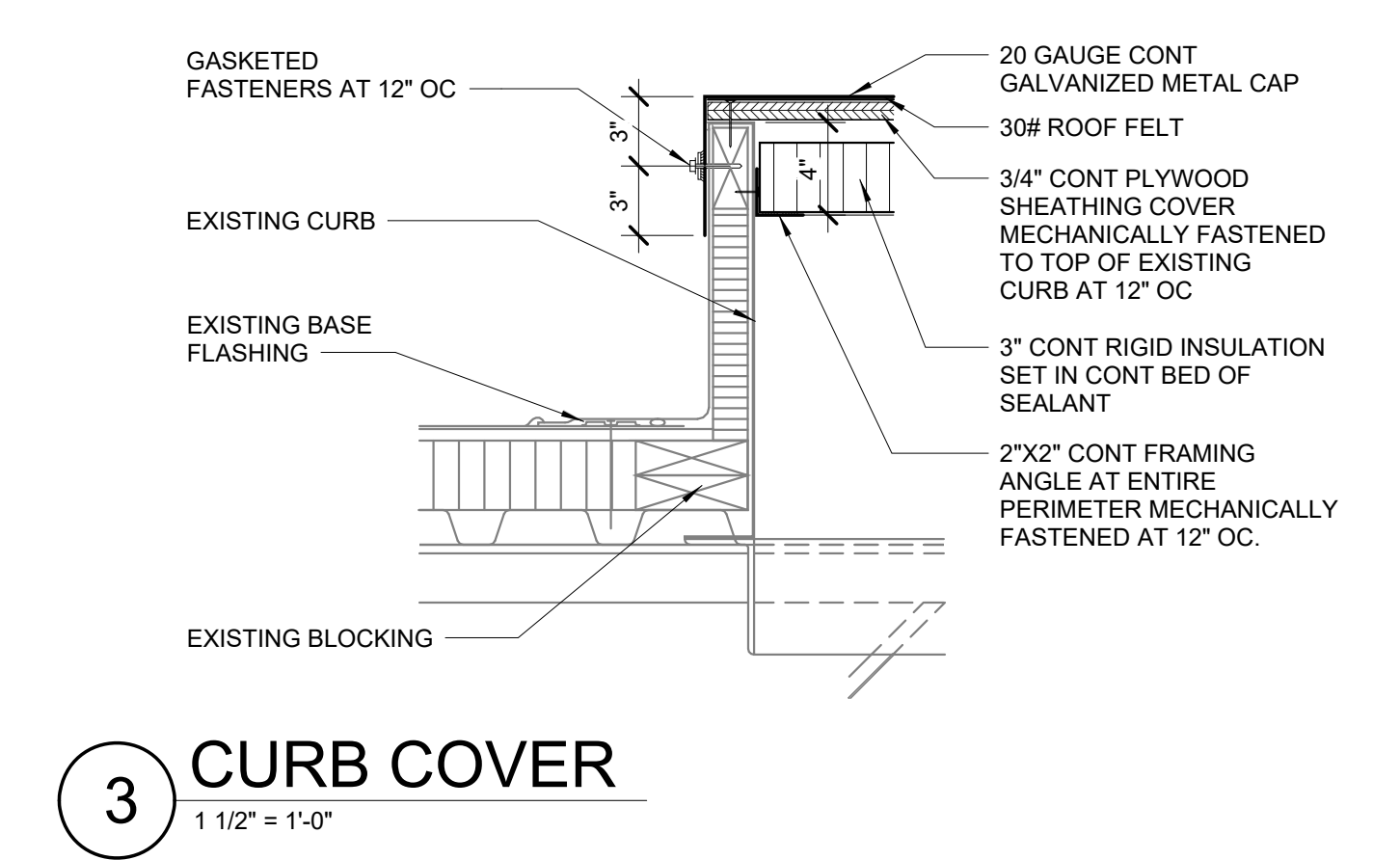
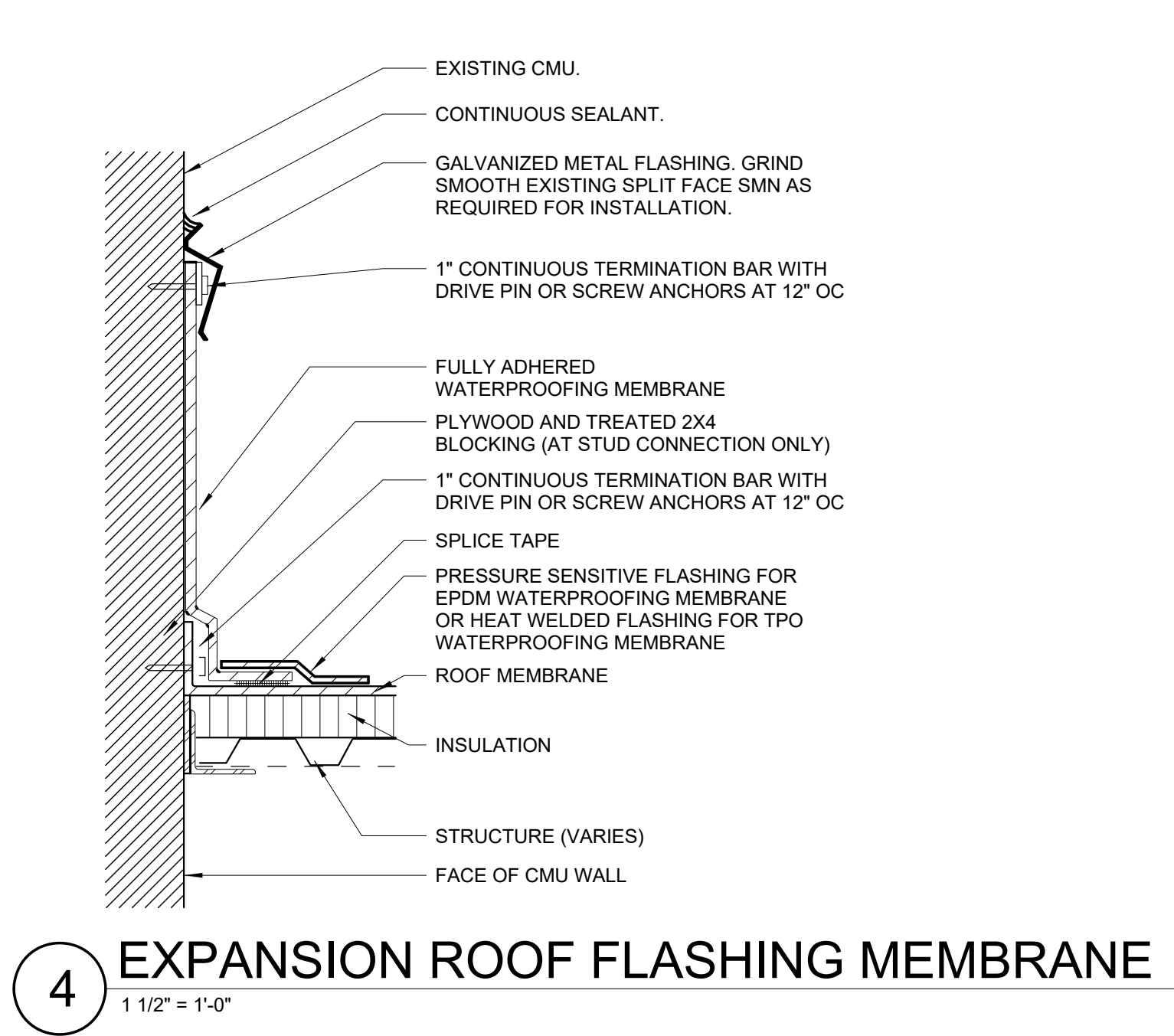
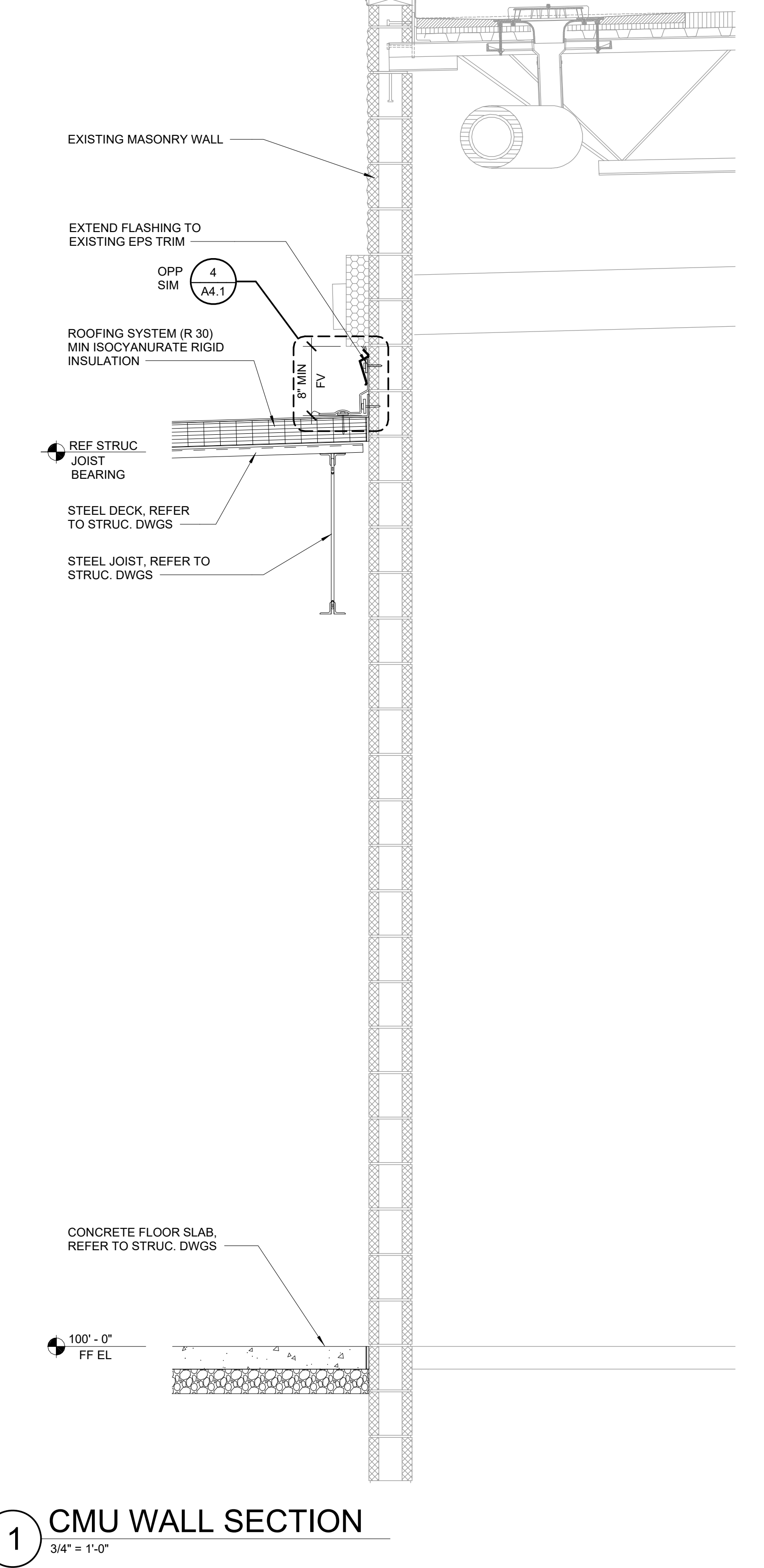
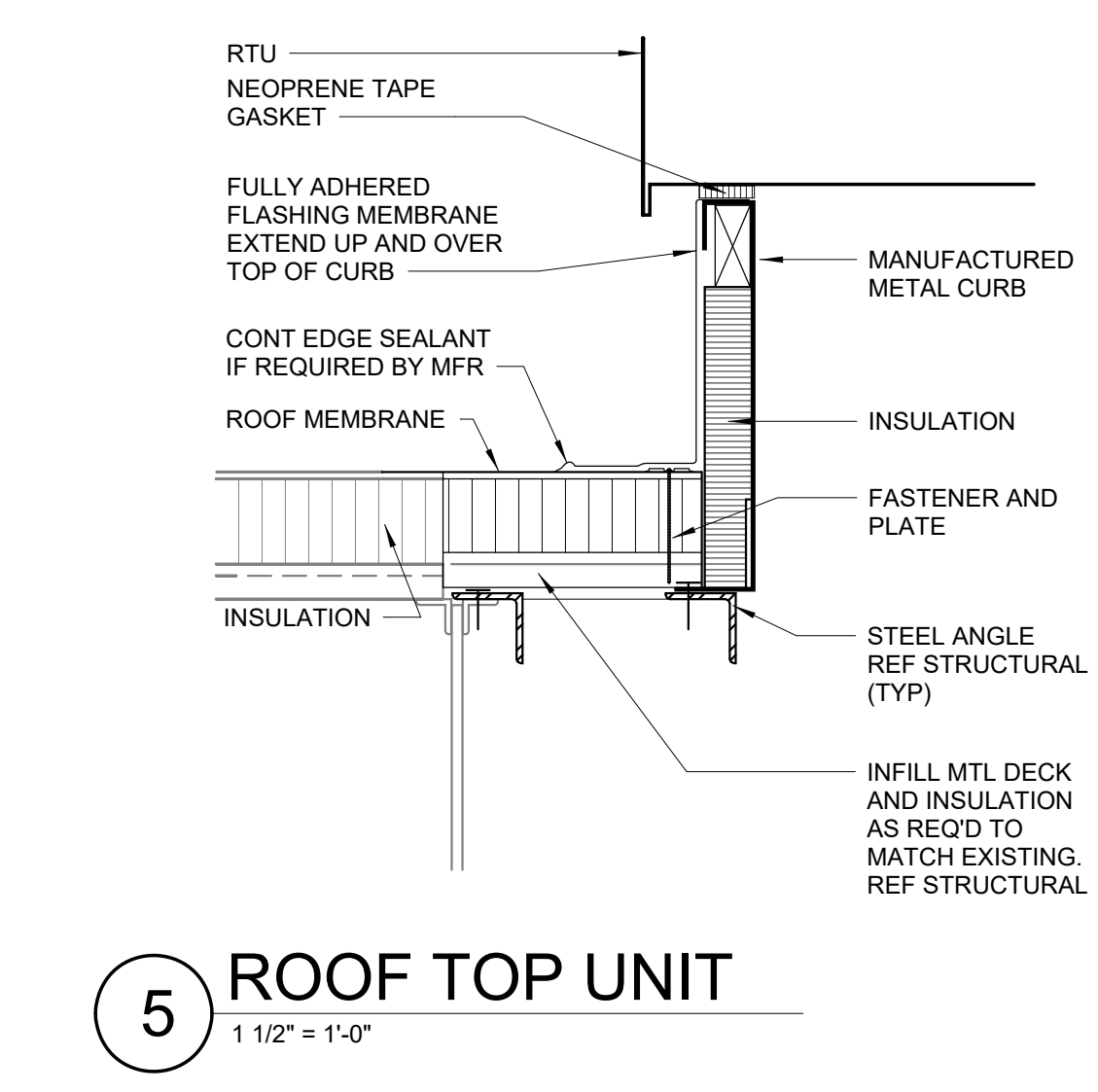
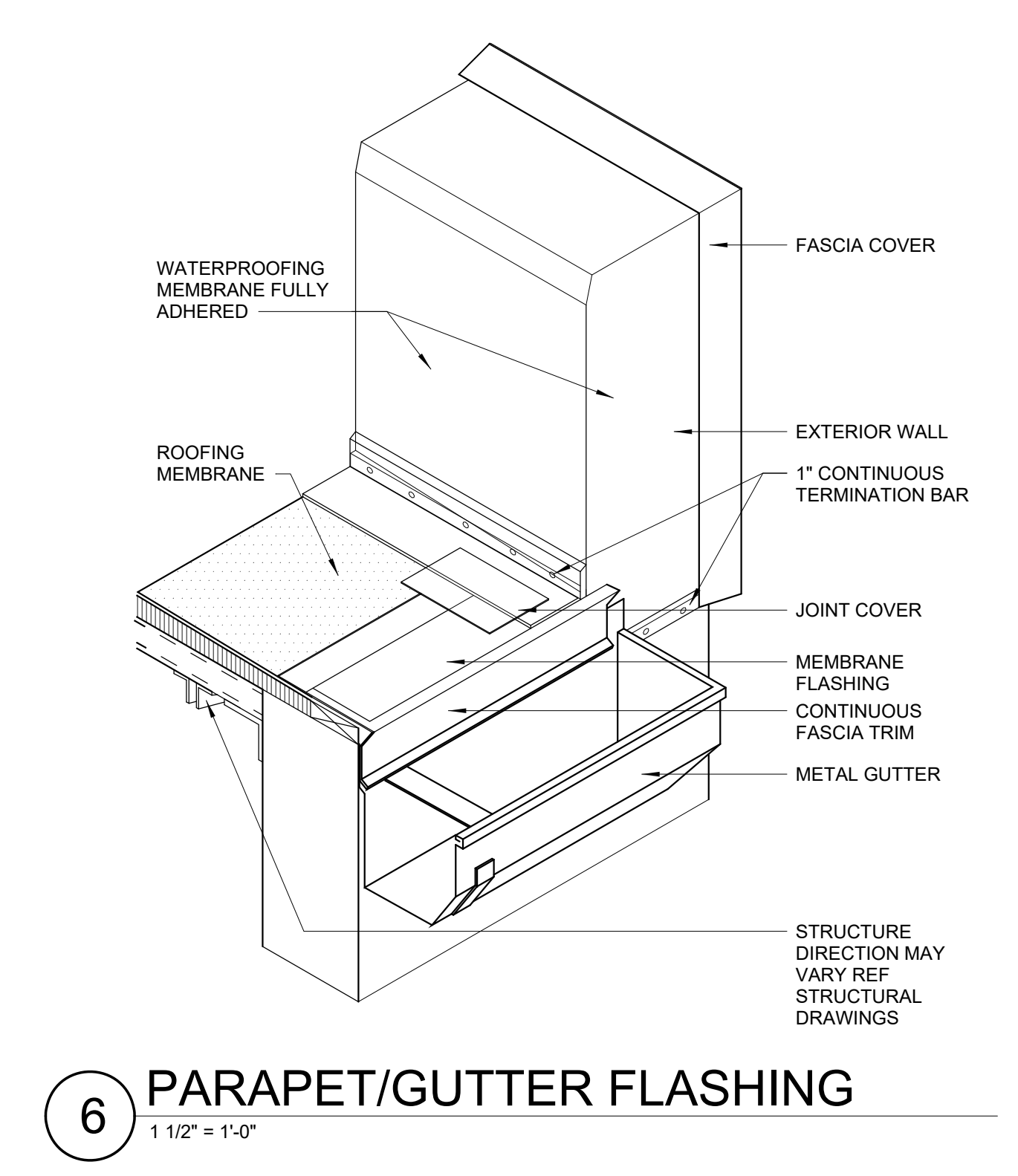
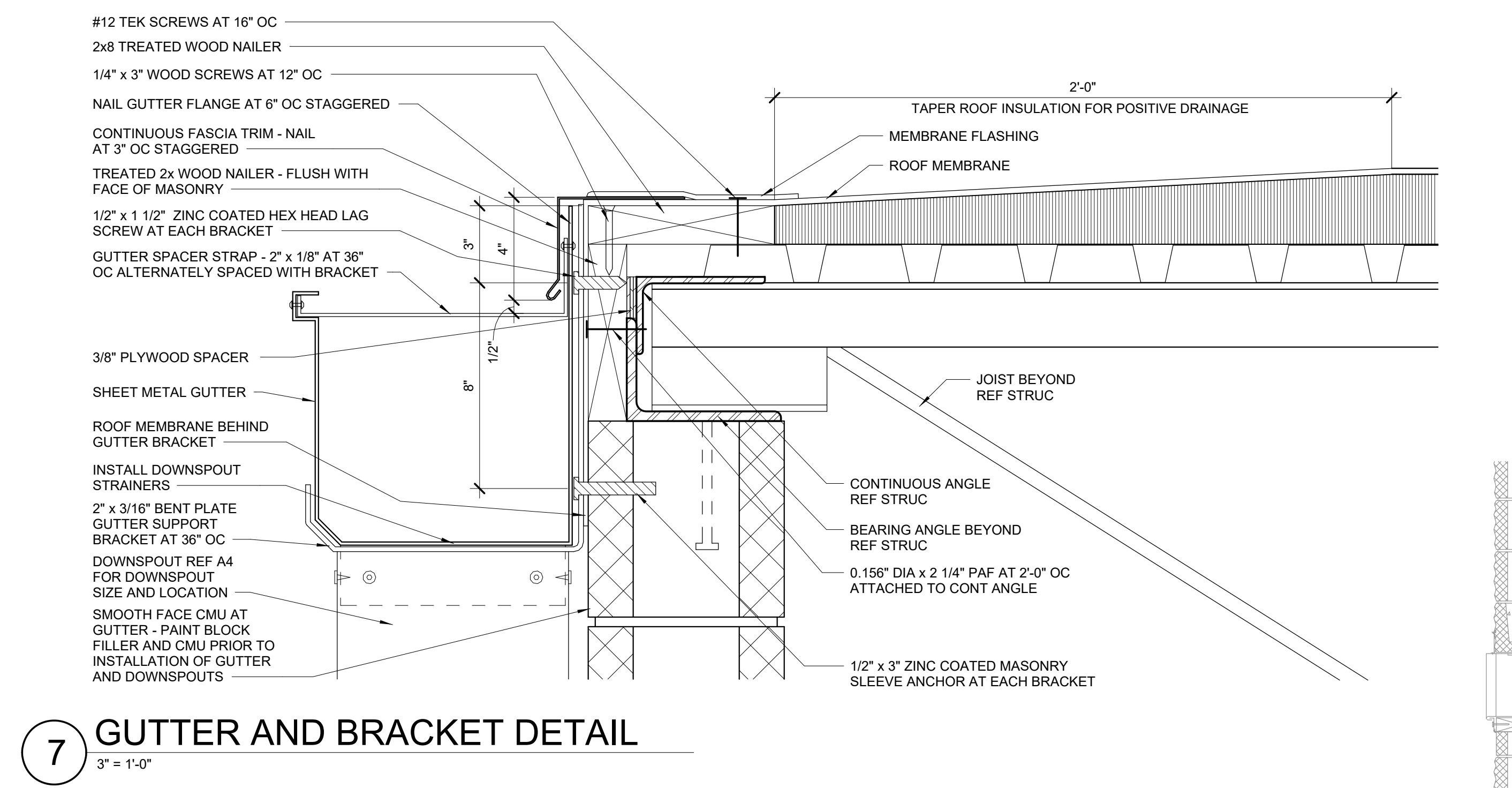
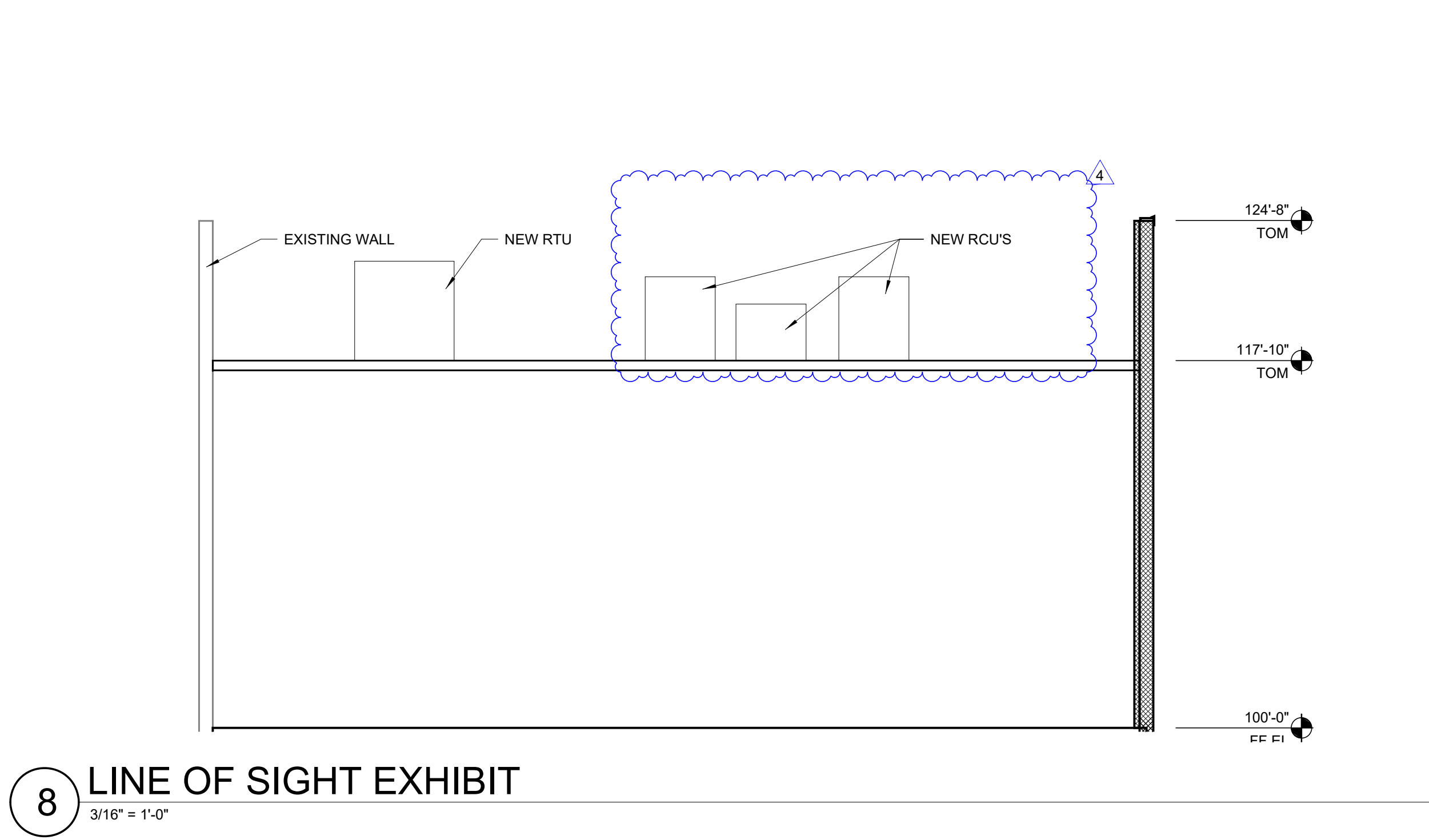
CHECKED BY: SME  
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PROTO CYCLE: 07/30/21  
DOCUMENT DATE: 09/08/21

*Chris K. Doerschlag*  
REGISTERED ARCHITECT  
CHRISTOPHER K. DOERSCHLAG  
STATE OF WASHINGTON  
07/07/2022

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EXPANSION WALL SECTION & ROOF DETAILS

SHEET: A4.1



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STATE OF WASHINGTON  
*Chris*  
09/15/2021

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PARTITION TYPES AND WALL DETAILS

SHEET: A6.1

PARTITION TYPES	PARTITION NOTES																		
	<ol style="list-style-type: none"> <li>STUDS CONTINUE TO DECK UNO. REF CAPTURE TRACK DETAILS.</li> <li>USE 1/2" GYPSUM BOARD ON NON-RATED PARTITIONS UNO.</li> <li>NOT USED.</li> <li>CONTINUE FINISH MATERIAL TO A MINIMUM OF 4" ABOVE SUSPENDED CEILING SYSTEMS UNO.</li> <li>WHERE NO CEILING IS INDICATED CONTINUE FINISH TO DECK UNO. MAINTAIN CLEARANCE BELOW STRUCTURE PER CAPTURE TRACK DETAILS.</li> <li>NOT USED.</li> <li>MAXIMUM HEIGHT OF NON LOAD BEARING WALL ABOVE HEADER TO BE 14'-0"</li> <li>REF SPECIFICATIONS FOR LATERAL BRACING OF STUD PARTITIONS.</li> <li>NOT USED.</li> <li>USE GYPSUM BOARD BEHIND ALL FRP BOARD UNO.</li> <li>WHERE NO CEILING IS SCHEDULED, STOP 1/2" PLYWOOD SUBSTRATE AT 10'-0" AFF.</li> <li>PROVIDE FIRE BLOCKING AT FLOOR AND ROOF LEVELS, CONCEALED SPACES BETWEEN AT-RWAY STRINGERS, PENETRATIONS IN FLOOR/CEILING ASSEMBLIES AND OTHER LOCATIONS AS REQUIRED BY CODE.</li> <li>NOT USED.</li> <li>ON RESTROOMS WALLS RECEIVING PORCELAIN TILE, UPPER (PAINTED) PORTION IS TO BE WATER RESISTANT GYPSUM BOARD IN LIEU OF GLASS-MAT BACKER MATERIAL.</li> <li>WHEN MODIFYING OR BUILDING ANY NEW FIRE RATED PARTITIONS, ENSURE ALL PENETRATIONS AND JOINTS ARE SEALED IN ACCORDANCE WITH THE SPECIFICATIONS.</li> <li>PROPERLY SEAL ALL EXISTING PENETRATIONS IN EXISTING FIREWALL TO ACHIEVE X HOUR RATING.</li> <li>WALLS WITH AN UNSUPPORTED LENGTH GREATER THAN THE LIMITS LISTED IN THE SPECIFICATIONS ARE TO BE BRACED ABOVE THE CEILING AND AT NO GREATER THAN THE MAXIMUM UNSUPPORTED LENGTH</li> <li>FOR PARTITION WALL FRAMING DAMAGE, REFERENCE 3-A6.1</li> </ol>																		
<b>PARTITION LEGEND</b>																			
<p><b>DETAIL:</b></p> <p><b>PLAN:</b></p> <p>LETTER INDICATES PARTITION TYPE REF PLANS AND SHEET A6</p> <p>NUMBER INDICATES STUD HEIGHT NO NUMBER INDICATES STUD HEIGHT TO BOTTOM OF ROOF DECK TYP</p> <p>NUMBER INDICATES STUD SIZE AS FOLLOWS:</p> <table border="1"> <tr> <td>1 - 1 5/8" METAL</td> <td>6 - 6" METAL</td> </tr> <tr> <td>2 - 2 1/2" METAL</td> <td>8 - 6" CMU</td> </tr> <tr> <td>3 - 3 5/8" METAL</td> <td>12 - 12" CMU</td> </tr> </table> <p>*REF SPECS FOR STUD GAUGE AND SPACING</p> <table border="1"> <tr> <td></td> <td>COOLER/FREEZER WALL (NEW)</td> </tr> <tr> <td></td> <td>EXISTING 1 HOUR RATED GYPSUM BOARD TO REMAIN</td> </tr> <tr> <td></td> <td>EXISTING PARTITION OR WALL TO REMAIN</td> </tr> <tr> <td></td> <td>EXISTING WALL TO BE DEMOLISHED</td> </tr> <tr> <td></td> <td>EXISTING CHAIN LINK FENCE</td> </tr> <tr> <td></td> <td>CMU WALL (NEW)</td> </tr> </table>		1 - 1 5/8" METAL	6 - 6" METAL	2 - 2 1/2" METAL	8 - 6" CMU	3 - 3 5/8" METAL	12 - 12" CMU		COOLER/FREEZER WALL (NEW)		EXISTING 1 HOUR RATED GYPSUM BOARD TO REMAIN		EXISTING PARTITION OR WALL TO REMAIN		EXISTING WALL TO BE DEMOLISHED		EXISTING CHAIN LINK FENCE		CMU WALL (NEW)
1 - 1 5/8" METAL	6 - 6" METAL																		
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	EXISTING 1 HOUR RATED GYPSUM BOARD TO REMAIN																		
	EXISTING PARTITION OR WALL TO REMAIN																		
	EXISTING WALL TO BE DEMOLISHED																		
	EXISTING CHAIN LINK FENCE																		
	CMU WALL (NEW)																		

**3 REPLACEMENT FRAMING DETAIL**  
1/2" = 1'-0"

**2 CONTROL JOINT AT DOOR JAMB**  
12" = 1'-0"

**1 HEADER CONNECTION DETAIL**  
1 1/2" = 1'-0"

**INTERIOR NON-LOAD BEARING PARTITION HEADER SCHEDULE**

HEADER LENGTH	HEADER MEMBERS	HEADER TRACKS	JAMB STUDS
UP TO 4'-0"	(2) C3 5/8x1 1/4"x20 GA	(2) C3 5/8x20 GA	(2) C3 5/8x1 1/4"x20 GA
UP TO 10'-0"	(2) C8x1 5/8"x18 GA	(2) C8x18 GA	(2) C8x1 5/8"x18 GA
OVER 10'-0" & UP TO 14'-0"	(2) C8x1 5/8"x18 GA	(2) C6x18 GA	(2) C6x1 5/8"x18 GA
OVER 14'-0" & UP TO 18'-0"	(2) C8x1 5/8"x16 GA	(2) C6x16 GA	(2) C6x1 5/8"x16 GA
OVER 18'-0" & UP TO 20'-0"	(2) C10x1 5/8"x16 GA	(2) C6x16 GA	(2) C6x1 5/8"x16 GA
OVER 20'-0" & UP TO 24'-0"	(2) C12x1 5/8"x16 GA	(2) C6x16 GA	(2) C6x1 5/8"x16 GA

**NOTES:**

- MAX WALL HEIGHT ABOVE HEADER ASSEMBLY IS 14'-0"
- SPLICING OF HEADER AND JAMB MEMBERS IS NOT PERMITTED.
- MAX SPAN FOR OPENINGS TO RECEIVE INFILL BELOW THE HEADER IS 10'-0"
- JAMBS NOT TO DECK ARE TO BE BRACED IN ACCORDANCE WITH THE PARTITION BRACING DETAILS. 3 5/8" JAMBS BEYOND 13'-4" ARE TO BE BRACED ABOVE THE OPENING AND SUCH THAT THE MAXIMUM UNBRACED LENGTH IS NOT EXCEEDED.
- FRAMING MEMBERS ARE NOT SIZED FOR VERTICAL LOAD OTHER THAN THAT OF THE PORTION OF WALL ABOVE THE OPENING.

**SECTION-A**

**SECTION-B**

**DETAIL-C**

**DETAIL-D**

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS. EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT HIMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

NEW DOOR AND FRAME SCHEDULE

Table with columns: MARK, ROOM NAME, NEW/ETR, TYPE, MATERIAL, QTY, WIDTH, HEIGHT, GLASS, ETR, TYPE, MATERIAL, HEAD, JAMB, THRESHOLD, FIRE RATING (MIN), NOTES. Includes rows for 909A (PRODUCE PREP) and 946C (PICKUP STORAGE).

GENERAL FINISH NOTES

- 1. PAINT ALL METAL DOOR FRAMES VISIBLE TO CUSTOMER (EXCEPT DOORS IN CMU WALLS) WITH EPOXY PAINT. PREP SURFACE TO BE PAINTED PER SPECIFICATIONS.
2. PAINT ALL HM DOORS AND FRAMES LOCATED IN NEWLY PAINTED WALLS AS INDICATED.
3. AT ROOMS SCHEDULED TO RECEIVE NEW PAINT: OMIT PAINT AT WALLS CONCEALED BY HALF-GONDOLAS, WALL STANDARDS OR WAREHOUSE RACKING WITH PEG-BOARD BACKING.
4. AT EXPOSED PAINTED STRUCTURE OR DECK, PAINT NEW CONDUIT, DUCTWORK AND FIRE SPRINKLER PIPING (FIRE SPRINKLER HEADS TO REMAIN UNPAINTED) TO MATCH ADJACENT STRUCTURE OR DECK.
5. FOR PROTECTIVE WALL SURFACING WAINSCOT, INSTALL OUTSIDE CORNER TRIM, REFERENCE SPECIFICATIONS.
6. WHERE NEW PROTECTIVE SURFACING WAINSCOT IS TO BE INSTALLED, REMOVE EXISTING LAMINATE AND/OR FINISHES TO BASE SUBSTRATE PRIOR TO INSTALLATION OF NEW. INSTALLATION OF NEW PROTECTIVE SURFACING OVER EXISTING IS NOT ACCEPTABLE. NO EXCEPTIONS.

GENERAL DOOR NOTES

- 1. ALL DOORS SCHEDULED AS NEW ARE TO RECEIVE COMPLETE NEW HARDWARE SETS AS LISTED IN SPECIFICATIONS.
2. REFERENCE ELEVATIONS ON A2 FOR EXTERIOR DOOR COLORS.
3. SCHEDULED WIDTH AND HEIGHT INDICATE FINISHED OPENING SIZE AT ALL OVERHEAD AND COILING DOOR LOCATIONS.
4. SCHEDULED WIDTH AND HEIGHT INDICATE ROUGH OPENING SIZE AT ALL AUTOMATIC SLIDING DOOR LOCATIONS.
5. INSTALL DRIP CAP AT ALL NEW EXTERIOR DOORS.

FINISH KEY

Table with columns: MARK, FINISH, COLOR, DESCRIPTION. Lists various materials like AC1 (ACOUSTICAL CEILING TILE), CT43 (PORCELAIN WALL TILE), FRP1 (FIBERGLASS REINFORCED PLASTIC), etc.

DOOR SCHEDULE NOTES

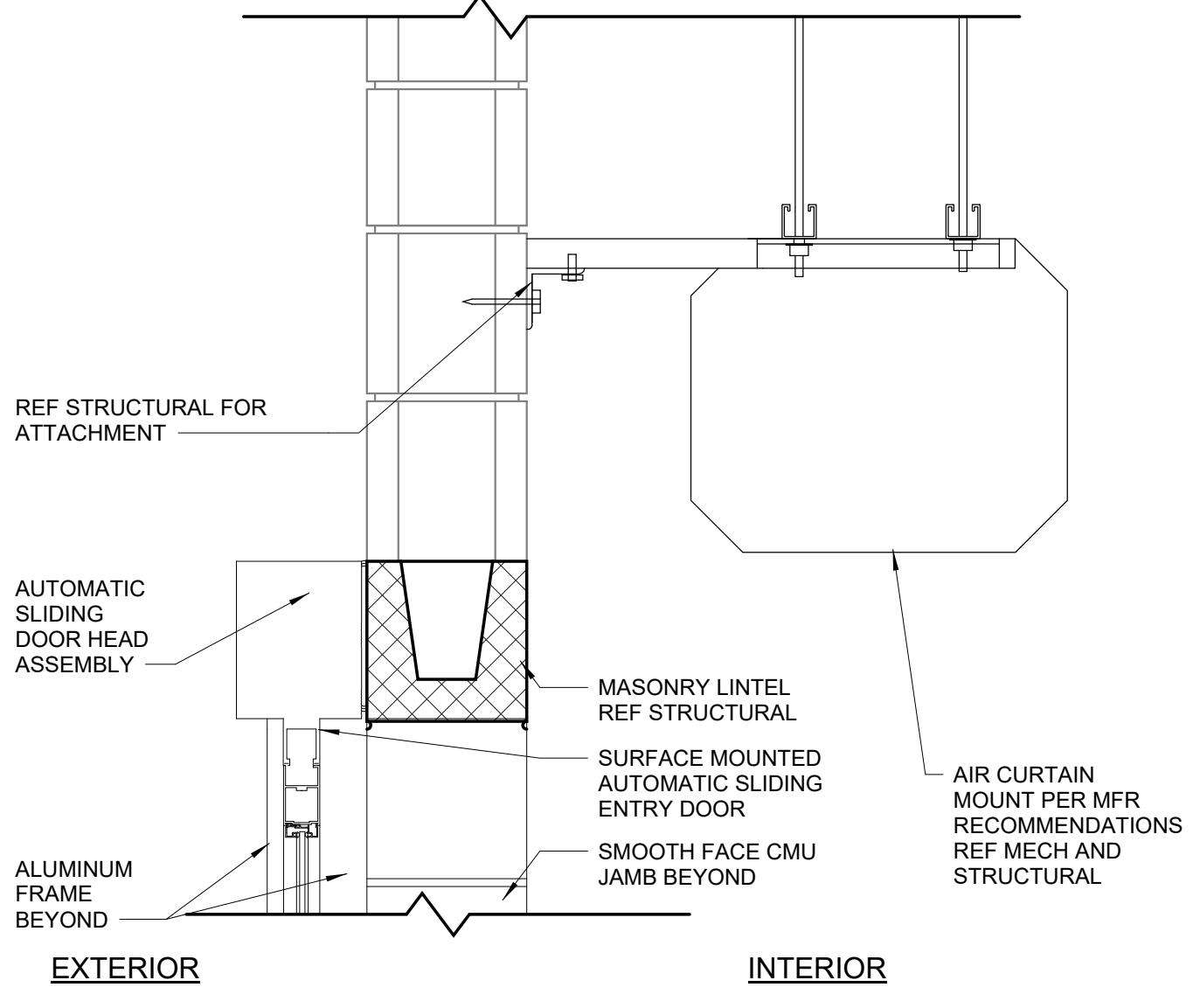
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MATERIAL KEY

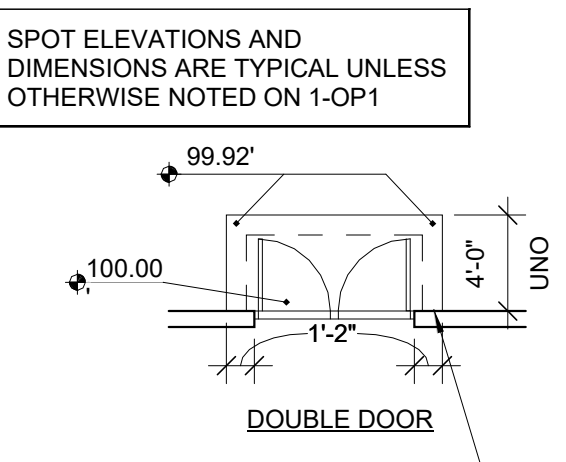
Table with columns: MARK, DESCRIPTION. Lists materials like AC (ACRYLIC), AL (ALUMINUM LINK), ALUM (ALUMINUM), CL (CHAIN LINK), HM-STL (HOLLOW METAL-STEEL), OM (ORNAMENTAL METAL), PLAST (PLASTIC), STL (STEEL), STL-P (STEEL PIPE), STL-BP (STEEL BENT PLATE), TEMP (TEMPERED).

MATERIAL KEY

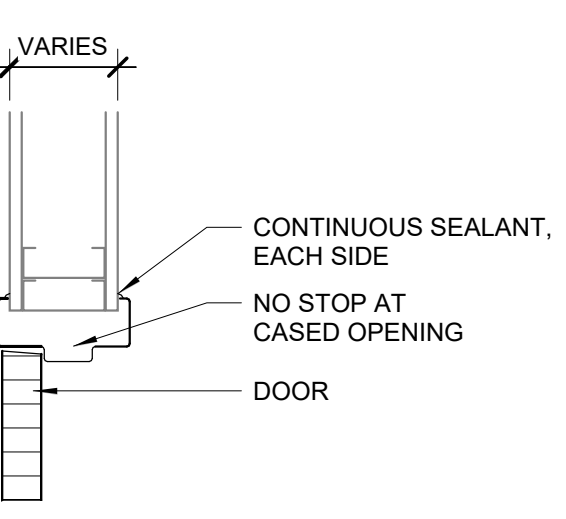
Table with columns: MARK, DESCRIPTION. Lists materials like A (CONCRETE), B (GLASS AND ALUMINUM FRAME), C (SMOOTH FACE CMU), D (SPLIT FACE CMU), E (CHAIN LINK), ETR (EXISTING TO REMAIN), F (EXPOSED STRUCTURE), G (GYPSUM BOARD), H (METAL SHEET), J (SHADE CLOTH), L (PLYWOOD), M (ORNAMENTAL FENCE), N (COOLER/FREEZER PANEL), P (TRANSLUCENT WALL PANEL), Q (FIBERGLASS ROOF PANELS).



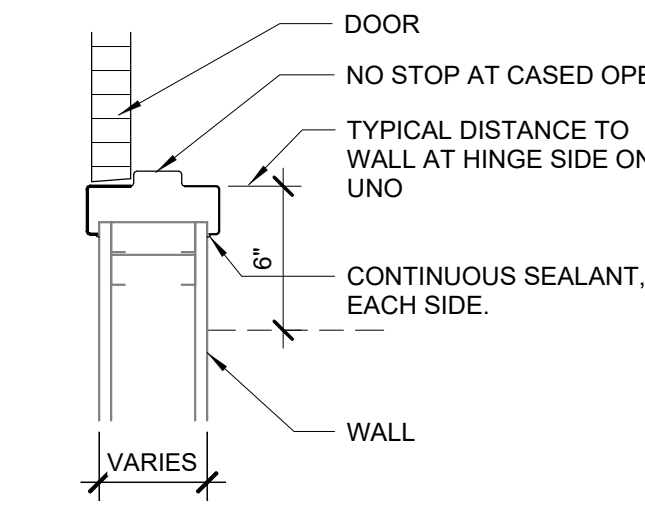
9 HEAD - AIR CURTAIN AT SURFACE MOUNTED DOOR 1 1/2" = 1'-0"



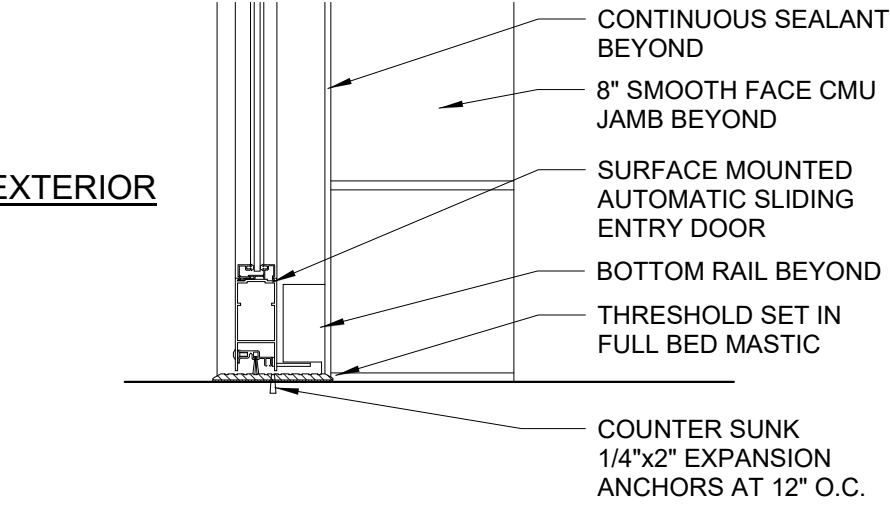
10 STOOP PLANS TYPICAL 1/8" = 1'-0"



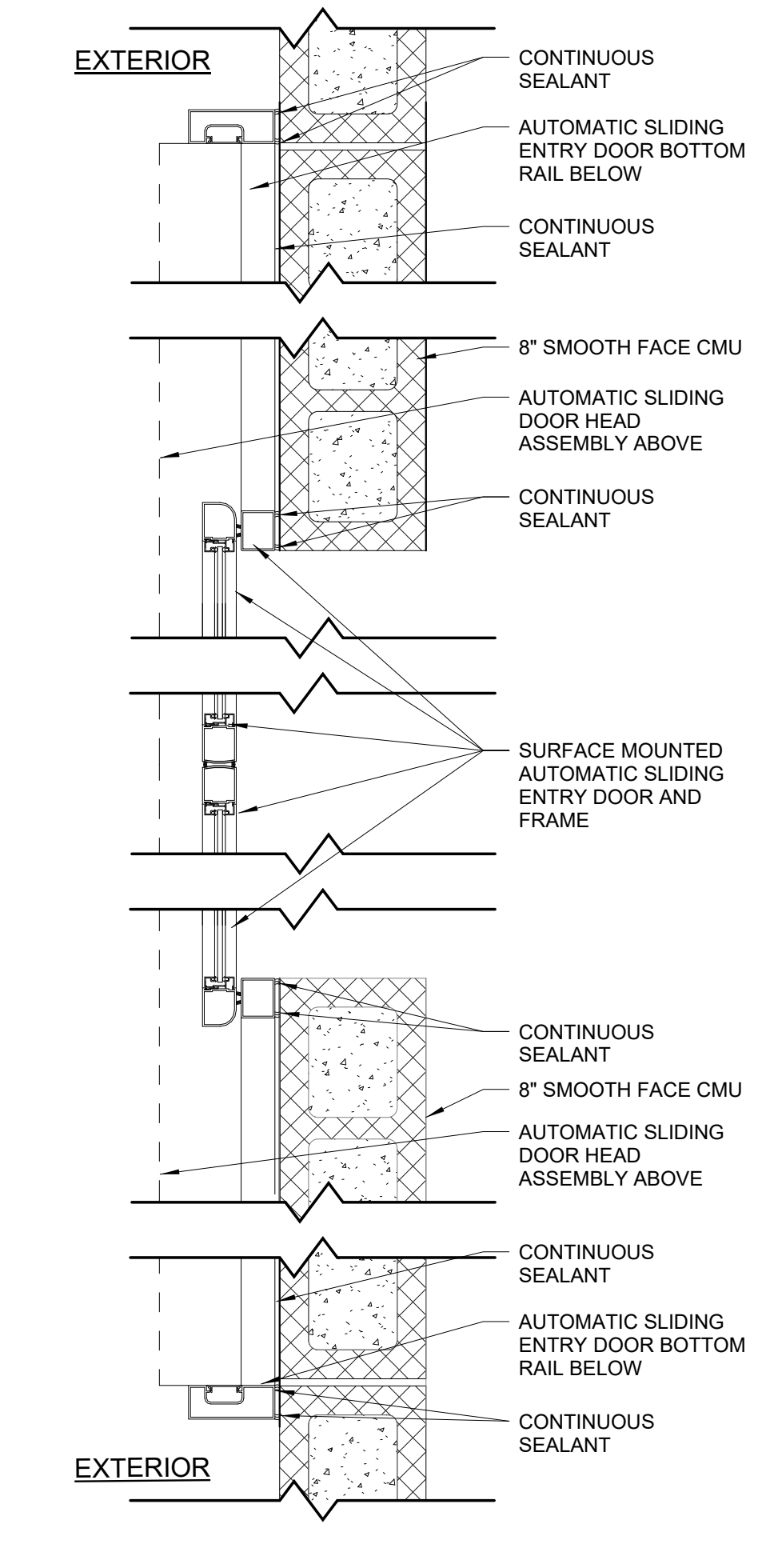
8 HEAD 1 1/2" = 1'-0"



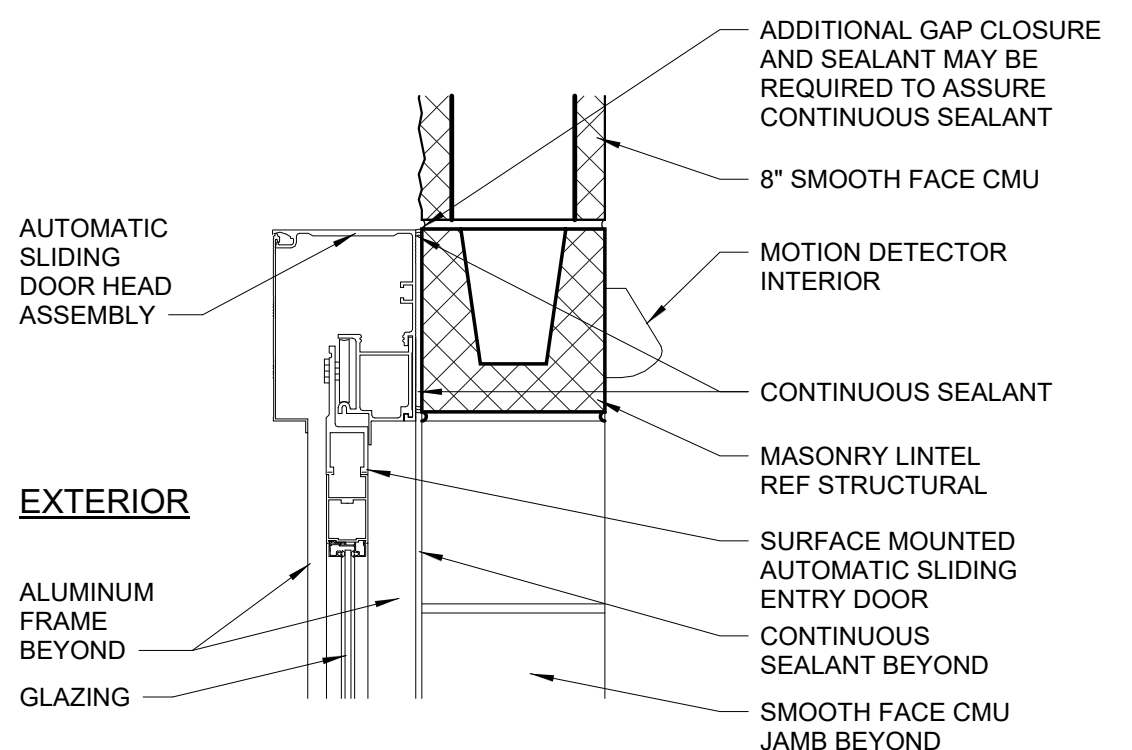
7 JAMB 1 1/2" = 1'-0"



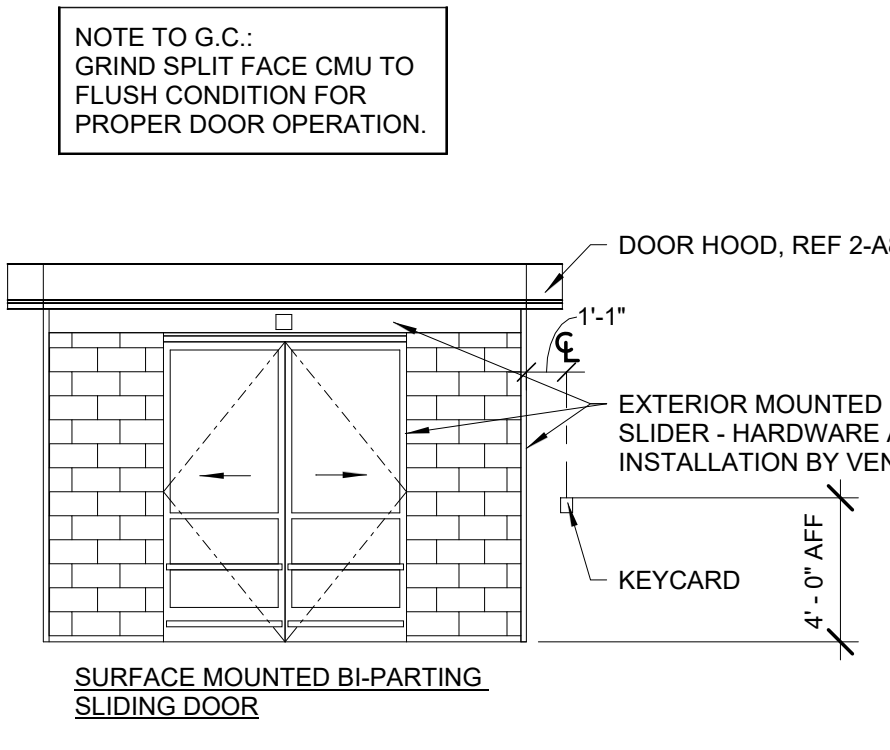
6 THRESHOLD 1 1/2" = 1'-0"



4 SLIDING DOOR JAMB EXTERIOR MOUNTED 1 1/2" = 1'-0"

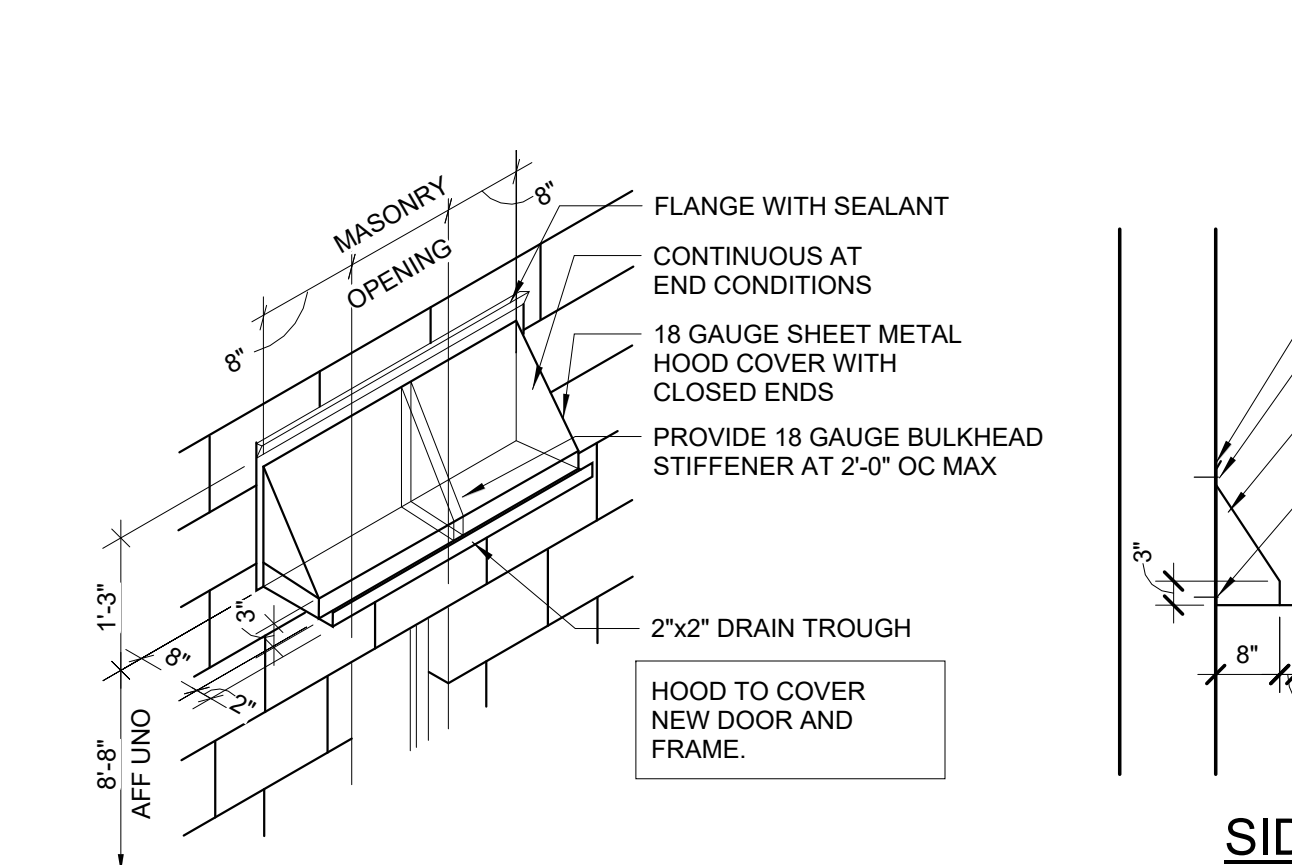


3 SLIDING DOOR HEAD EXTERIOR MOUNTED 1 1/2" = 1'-0"

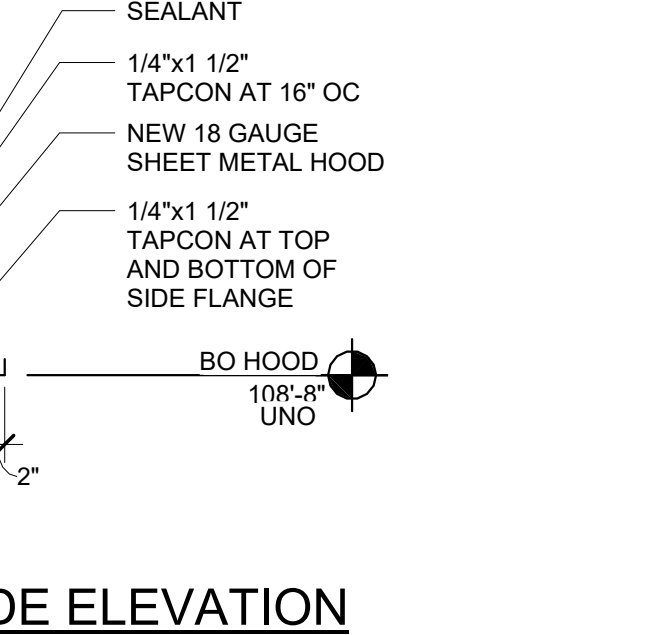


5 SLIDING DOOR ELEVATION 3/16" = 1'-0"

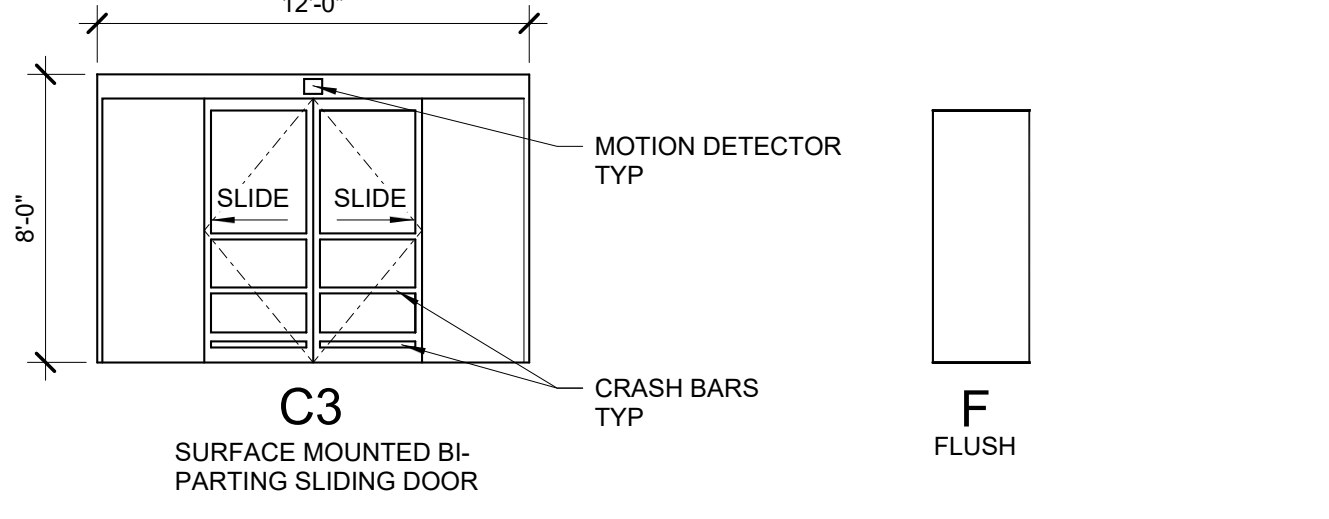
Table titled 'DOOR HARDWARE SCHEDULE' listing items for Doors 909A (Produce Prep) and Doors 946C (Pickup Storage). Items include: 1-1/2" (H-11) Butts, 1 ea. (E-2) Alarm Exit Device, 1 ea. (T-9) Threshold, 1 ea. (W-3) Door Bottom Weatherstrip, 1 ea. (W-1) Jamb & Head Weatherstrip, 1 ea. (M-9) Drip Cap, 1 ea. (L-1) Keyed Cylinder, 1 ea. (L-2) Locking Device.



2 DOOR HOOD 1/2" = 1'-0"



1 DOOR TYPES 3/16" = 1'-0"



1 DOOR TYPES 3/16" = 1'-0"

Walmart logo and address: 7007 DISCOVERY BLVD, DUBLIN, OH 43017, 614.634.7000. Includes website URL WDPARTNERS.COM.

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CONSULTANTS: WDM CONSULTANTS

Walmart logo and address: PUYALLUP, WA, 310 31ST AVENUE SE, PUYALLUP, WA 98374, STORE NO. 24052278. Includes photo credit: WALGPP0402 | PHOTO: 192 GROCERY EXP.

ISSUE BLOCK table with columns: #, PR#, DATE. Row 1: 2, PR#2, 03/18/22.

CHECKED BY: SME, DRAWN BY: MA/AK/SH, PHOTO CYCLE: 07/30/21, DOCUMENT DATE: 09/08/21.

REGISTERED ARCHITECT: CHRISTOPHER K. DOERSCHLAG, STATE OF WASHINGTON. Date: 03/21/2022.

DOCUMENTS THAT DO NOT HAVE THE ARCHITECT OR ENGINEER OF RECORD SEAL AND SIGNATURE SHALL BE CONSIDERED NOT FOR CONSTRUCTION.

DOOR SCHEDULE, FINISHES AND DETAILS

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT 'AS-BUILT' CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS. EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT HIMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

WALK-IN COMPONENTS AND DOOR LEGEND			
WDS NUMBER	QTY.	DESCRIPTION	NOTES
R0620.001	3	SWING DOOR (42X90)	
R0700.000	2	PUSH THROUGH VESTIBULE (42X90)	
R5003.000	5	WALK-IN PANELS	10,11

**EQUIPMENT NOTES**

- REFERENCE SHEET OP1.0 FOR EQUIPMENT LOCATION.
- FINISHES FOR OWNER SUPPLIED EQUIPMENT ARE SPECIFIED PER BID ALIGNMENT BETWEEN OWNER AND OEM.
- EQUIPMENT INSTALLED BY EQUIPMENT SUPPLIER.
- RELOCATED EQUIPMENT IS SHOWN DASHED.
- RETIROFIT DOORS/SLDS PROVIDED BY OWNER AND INSTALLED BY EQUIPMENT SUPPLIER.
- SCALE STAND FURNISHED BY OEM AND INSTALLED BY GC.

**GENERAL EQUIPMENT NOTES**

- ALL EQUIPMENT IS SUPPLIED BY OWNER, INSTALLED BY THE GENERAL CONTRACTOR. GENERAL CONTRACTOR TO MAKE FINAL UTILITY CONNECTIONS, UNLESS OTHERWISE NOTED.
- REFERENCE SPECIFICATIONS FOR REFRIGERATED AND HOT DISPLAY CASES FOR SUPPLIED BY, INSTALLED BY, AND FINAL CONNECT BY.
- REFERENCE SPEC. APPENDIX A FOR MANUFACTURER AND MODEL NUMBERS NOT LISTED IN EQUIPMENT LEGENDS.
- OWNER TO SUPPLY SS FIXTURES BY WIN-HOLT.

**SHEET NOTES**

- ALL EQUIPMENT SHOWN DASHED TO BE FURNISHED BY WALMART UNO.
- ALL STEEL RACKS TO BE FURNISHED BY WALMART AND ANCHORED BY CONTRACTOR. REFER TO RACK ANCHORAGE PLAN FOR STEEL RACK AND/OR GONDOLA SHELVING FIXTURE ANCHORING REQUIREMENTS.
- REPAIR BOLT HOLES AND SPALLS RESULTING FROM MERCHANDISE FIXTURE AND/OR STORAGE RACK RELOCATION OR REMOVAL. REF SPEC 03905. FILL ALL BOLT HOLES AND SPALLS RESULTING FROM FIXTURE AND/OR STORAGE RACK RELOCATION OR REMOVAL IN NON-CUSTOMER ACCESSIBLE AREAS WITH NON-SHRINK GROUT.
- STUD WALL DIMENSIONS ARE TO THE FACE OF THE STUDS.
- WALLS AND INFILL OF EXISTING OPENINGS ARE TO MATCH THE CONSTRUCTION AND FINISHES OF ADJACENT EXISTING WALLS.
- ROUTE ALL UTILITY SERVICE LINES (PIPES AND CONDUIT) WITHIN EXISTING ADJACENT STUD WALLS WHEREVER POSSIBLE. ON COOLER/FREEZER PANELS IN FOOD PREP AREAS WHERE UTILITIES MUST BE EXPOSED, CONTRACTOR TO HAVE THE OPTION OF THE FOLLOWING:
  - SURFACE MOUNT UTILITIES WITH NON-CORROSIVE ANCHORS; SEAL BOTH SIDES OF PIPE/CONDUIT TO PANEL CONTINUOUSLY WITH SEALANT.
  - INSTALL UTILITIES 1/2" OFF FACE OF PANEL TO ALLOW FOR CLEANING; USE ONLY NON-CORROSIVE ANCHORS; APPLY CONTINUOUS SEALANT ALONG EDGES AND JOINTS.
  - COVER UTILITIES WITH 20 GAUGE STAINLESS STEEL BENT PLATES MOUNTED TO WALL WITH NON-CORROSIVE ANCHORS; APPLY CONTINUOUS SEALANT ALONG EDGES AND JOINTS.
- RELOCATION AND SETUP OF GONDOLAS AND/OR RACKING AS INDICATED ON FXS SHEETS WILL BE PERFORMED BY OWNER. ANCHORING OF UPRIGHTS TO BE PERFORMED BY GENERAL CONTRACTOR. ON SPECIAL PROJECTS, RELOCATION AND SETUP OF GONDOLAS AND/OR RACKING AS INDICATED ON THIS SHEET WILL BE PERFORMED BY GC.
- REMOVAL OF GONDOLAS AND/OR RACKING AS INDICATED ON FXS SHEETS WILL BE PERFORMED BY GC.
- REMOVE ALL DASHED DOORS AND/OR RACKING AS INDICATED ON THIS SHEET WILL BE PERFORMED BY GC.
- LOCATE ALL 4" DEEP RACKS 6" FROM WALLS AND COLUMNS UNO.
- LOCATE ALL RACKS LESS THAN 4" DEEP 3" FROM WALLS AND COLUMNS UNO.
- ALL CONCRETE STOOPS SLOPE 1:48 (2%) AWAY FROM BUILDING. SLOPE SURROUNDING GRADE 1:20 (5%) MAXIMUM TO MEET WITH FRONT AND SIDE EDGES OF EACH CONCRETE STOOP.
- ALL EXTERIOR SIDEWALK JOINTS TO BE FILLED WITH SEALANT. REF SPECIFICATIONS.
- REF CIVIL AND MEP FOR LOCATION OF GREASE INTERCEPTOR.
- ALL EXIT SIGNS AND EMERGENCY LIGHT ARE SHOWN ON SHEET E1, (SYMBOL LEGEND ON E3), AND WILL BE SUBJECT TO INSPECTION FROM THE FIRE MARSHAL HAVING AUTHORITY PRIOR TO FINAL APPROVALS.
- PROVIDE 30"x48" CLEAR AND LEVEL FLOOR SPACE AT EACH FIRE EXTINGUISHER LOCATION. ALL CONTROLS SHALL BE 48" MAXIMUM AFF.
- COORDINATE QUANTITY AND LOCATION OF FIRE EXTINGUISHERS REQUIRED WITH AHJ.



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THIS DRAWING WAS PREPARED FOR THE PROJECT AND SITE SPECIFIC CONDITIONS. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

CONSULTANTS

**Walmart**  
PUYALLUP, WA  
310 31ST AVENUE SE, PUYALLUP, WA 98374  
STORE NO. 24052278  
JOB NUMBER: WALGP0402 | PHOTO: 192 GROCERY EXP

**DEMO NOTES**

- SALES FLOOR TO BE ACCESSIBLE TO CUSTOMERS DURING NON-CONSTRUCTION HOURS. REMOVE CONSTRUCTION FENCING AND DUST WALLS INTERFERING WITH CUSTOMER CIRCULATION OR ACCESS.
- DEMOLITION INCLUDES BUT IS NOT LIMITED TO ITEMS SHOWN DASHED.
- REMOVE ALL DOORS SHOWN DASHED. REFER TO DOOR SCHEDULE FOR DOOR AND FRAME REPLACEMENT.
- COORDINATE REMOVAL AND DISPOSAL OF EXISTING FIXTURES WITH MECHANICAL SERVICES CONSTRUCTION MANAGER.
- REMOVAL OF GONDOLAS AND/OR RACKING AS INDICATED ON FXS SHEETS WILL BE PERFORMED BY OTHERS.

**KEYNOTES**

- 3.13 6" WIDE X 6" HIGH CONTINUOUS CONCRETE CURB WITH SMOOTH HAND TOWEL FINISH AT BASE OF WALK-IN BOX.
- 5.20 STEEL PROTECTOR ANGLE. REF 4-OP1.1 AND 6-OP1.1
- 5.54 32" GALVANIZED STEEL BOLLARD, 4" OD FURNISHED BY OWNER, INSTALLED BY GC. SURFACE MOUNTED. REF 12-OP1.1
- 16.05 INSTALL INSECT CONTROL UNIT TYPE NOTED BESIDES UNIT. REFER TO N1 FOR LEGEND AND NOTES.

**INSECT CONTROL UNIT LEGEND**

FINAL NUMBER OF UNITS RECEIVED IS DETERMINED BY THE WALMART FOOD SAFETY & HEALTH PEST MANAGEMENT AND PEST ELIMINATION SERVICES PROVIDER

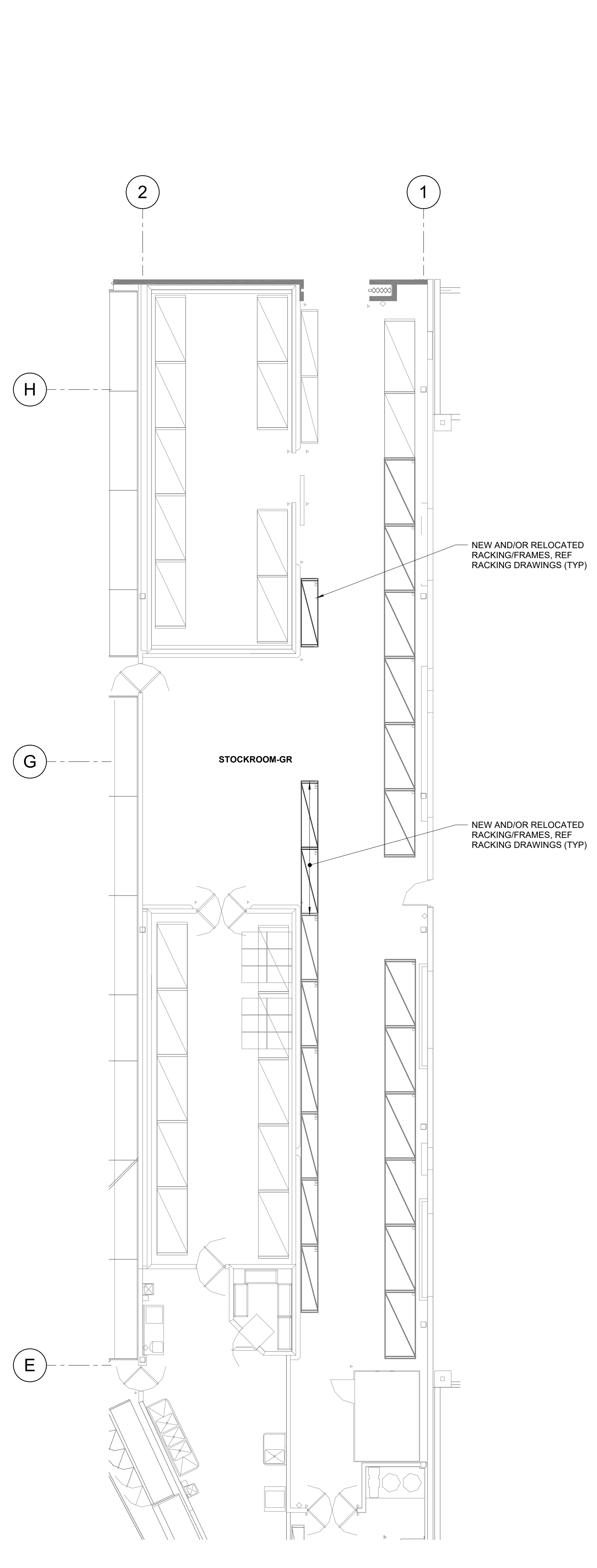
TYPE	TOTAL	D
D	1	

- NOTES:**
- ALL UNITS TO BE INSTALLED BY THE PEST ELIMINATION SERVICES PROVIDER.
  - UNITS ARE NOT TO BE INSTALLED ABOVE ANY FOOD SERVICE/PREP EQUIPMENT.
  - UNITS ARE TO BE INSTALLED (INDICATED WITH BROWN RECEPTACLES AND COVERS) AS INSTRUCTED WITHIN THE CONSTRUCTION DOCUMENTS. REFERENCE ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR PROPER LOCATION.

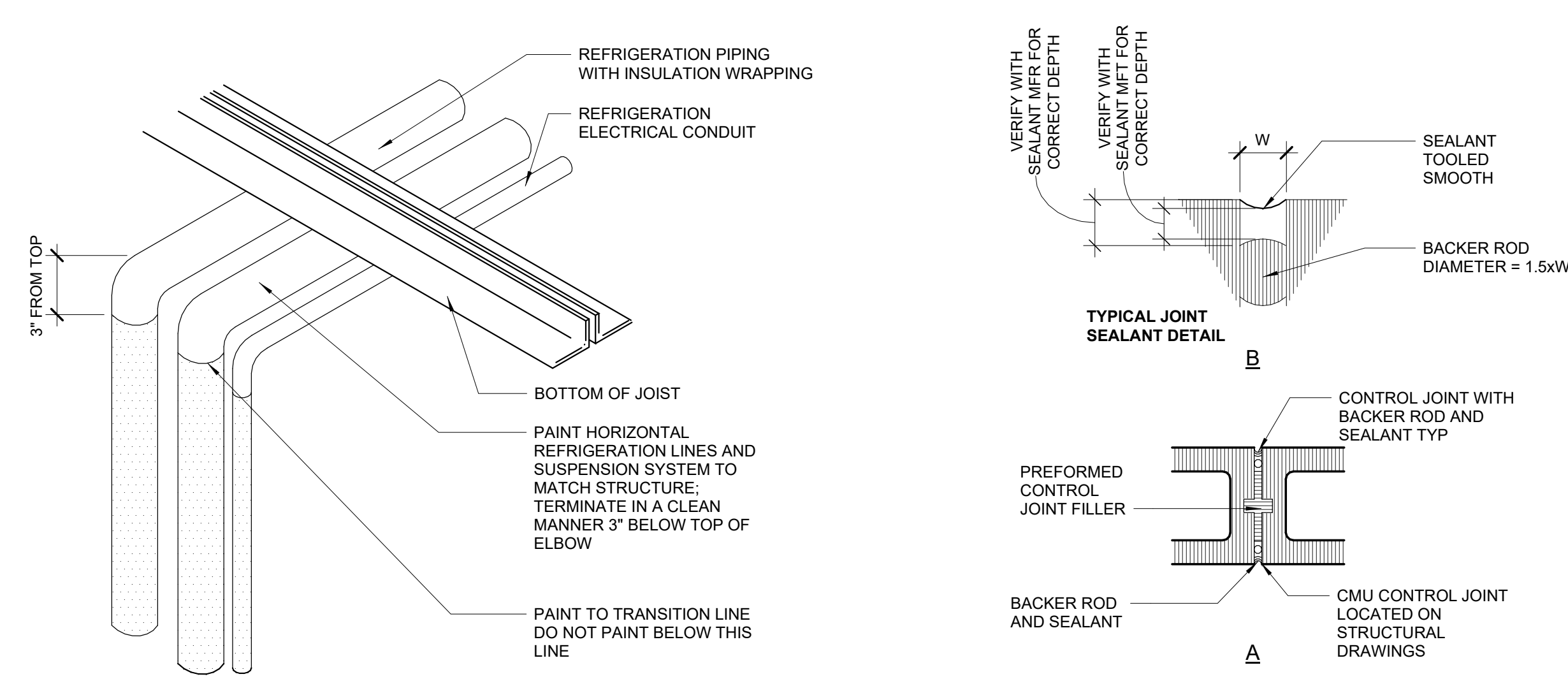
**LEGEND**

- EXISTING
- NEW
- REMOVE
- RELOCATE
- AREA OF DEMOLITION

- 946 PICKUP STORAGE**
- WALLS**
    - EXISTING WALLS TO REMAIN. NEW WALLS DO NOT PAINT. REF SPECIFICATIONS FOR FINISH.
  - FLOOR**
    - REF STRUCTURAL AND SPECS FOR NEW SLAB.
    - EO ALL ETR. SCRAPE CLEAN THE SLAB TO REMOVE ADHESIVE AND DIRT. PATCH AND REPAIR CONCRETE IN ACCORDANCE WITH SECTION 03905.
    - TRANSITION BETWEEN EXISTING FLOORING AS REQUIRED IF MORE THAN ONE FLOORING TYPE EXISTS. REPAIR CONCRETE AS REQUIRED AT LOCATIONS OF DEMOLISHED WALLS AND FIXTURES IN ACCORDANCE WITH SECTION 03905.
  - CEILING**
    - OPEN TO STRUCTURE.
  - EXTERIOR PICKUP FREEZER/COOLER**
  - WALLS**
    - NEW FREEZER/COOLER BOX PANELS ARE TO HAVE WHITE ENAMEL FINISH EXTERIOR, NATURAL GALVANIZED INTERIOR, AND WHITE ENAMEL FINISH CEILING UNO ON PLAN.
  - FLOOR**
    - INSTALL NEW EXPOSED CONCRETE SLAB. REF SPEC SECTION 03314 AND STRUC (TYP). POLISH TO MATCH ADJACENT.
    - AT INTERIOR BASES OF FREEZER/COOLER BOXES WITH SEALED CONCRETE FLOORS. INSTALL CONTINUOUS SILICONE CALK BEAD WITH FINGER COVE WHERE WALL PANELS MEET CONCRETE SLAB.
    - TRANSITION BETWEEN EXISTING FLOORING AS REQUIRED IF MORE THAN ONE FLOORING TYPE EXISTS. REPAIR CONCRETE AS REQUIRED AT LOCATIONS OF DEMOLISHED WALLS AND FIXTURES IN ACCORDANCE WITH WITH SECTION 03905.
  - CEILING**
    - CEILING HEIGHT INDICATED IS TO THE TOP OF WALK-IN COOLER/FREEZER BOX (SUBTRACT 5' FOR INTERIOR HT)

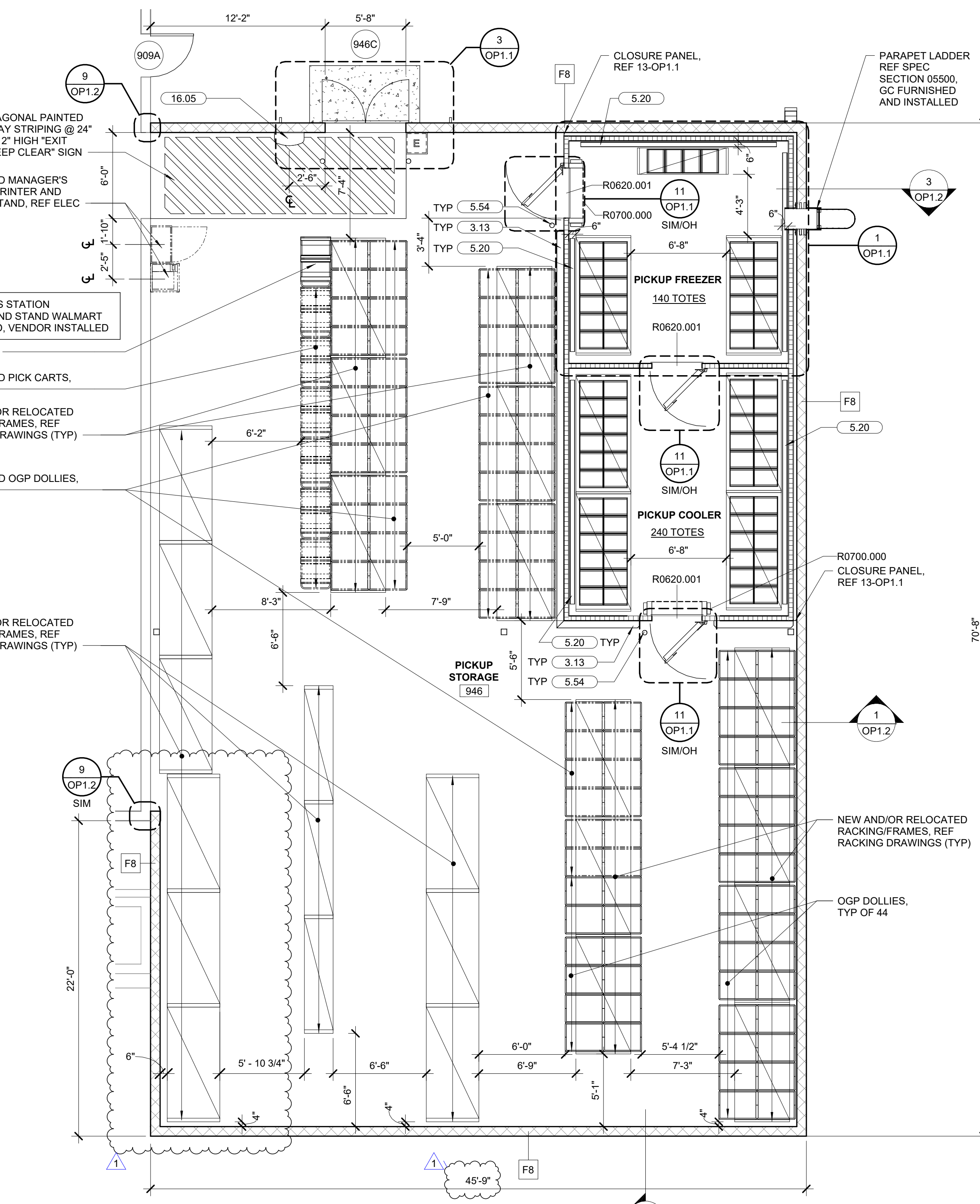


1 STOCKROOM - GR ENLARGED PLAN  
1/8" = 1'-0"



4 REFRIGERATION DROP LINES  
1 1/2" = 1'-0"

3 CONTROL JOINT  
1 1/2" = 1'-0"



2 ENLARGED EXPANSION FLOOR PLAN  
3/16" = 1'-0"

- AT EXPOSED PAINTED STRUCTURE OR DECK PAINT NEW CONDUIT, DUCTWORK AND FIRE SPRINKLER PIPING (FIRE SPRINKLER HEADS TO REMAIN UNPAINTED) TO MATCH ADJACENT STRUCTURE OR DECK.
- SLOPE ALL EXTERIOR SLABS AWAY FROM BUILDING SLOPE. ALL SLOPES SHALL BE A MIN 1:100 (1%) AND SHALL NOT EXCEED 1:48 (2%). ALL SLABS SHALL MEET BUILDING AT ELEVATIONS 100.00 (UNO) WHERE SLAB EDGE MEETS PAVING. COORDINATE TOP OF SLAB WITH CIVIL DRAWINGS.
- NOTE: ELECTRICAL FIRE PROTECTION PIPING & PLUMBING WILL GO THRU EXISTING OPENING. IF AN OPENING EXISTS. REF MEP. IF ONE DOES NOT EXIST, REF STRUCTURAL.
- NOTE: ALL PIPING PENETRATIONS THRU WALL ONLY. COORDINATE WITH VENDOR IF ANY PENETRATIONS ARE REQUIRED THRU THE ROOF. REF MEP.
- REF TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING SITE-RELATED SCOPE OF WORK.
- NOTE: ARCHITECTURAL FINISH FLOOR=100.00' CIVIL FINISH FLOOR=REF CIVIL. ALL EXTERIOR DOORS=100.00' UNO.
- NOTE: PROVIDE CONT. BACKER ROD AND SEALANT FROM SIDES OF CMU AT JUNCTURE OF NEW AND EXISTING CMU WALLS.
- NEW LOCATION OF RACK BEAMS AND UPRIGHT FRAMES PER FXS SHEETS. REF SHEET NOTES.
- FOR ENLARGED WALK IN PLAN. REF 2-OP1.1
- NOTE: FOR REFRIGERATION LINE DETAIL, REF 4-OP1.0
- NOTE: NEW LINERS ONLY INSTALLED ON WALK-IN WALLS. NEW LINERS WILL NOT BE INSTALLED ON WALK-IN CEILING. ALL CEILING JOINTS TO BE SEALED BY THE PANEL VENDOR.
- NEW EVAPORATORS TO BE FURNISHED BY RACK MANUFACTURER AND INSTALLED BY CONTRACTOR.
- REF 4-A8 , FOR NEW SLIDER DOOR
- REF SHEET OP1.1 FOR PROTECTION ANGLE DETAILS

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**ISSUE BLOCK**

NO.	DESCRIPTION	DATE
1	PR#1	01/25/22

CHECKED BY: SME  
DRAWN BY: KRA/KSH  
PROTO CYCLE: 07/30/21  
DOCUMENT DATE: 09/08/21

REGISTERED ARCHITECT  
CHRISTOPHER K. DOERSCHLAG  
STATE OF WASHINGTON

02/10/2022

DOCUMENTS THAT DO NOT HAVE THE ARCHITECT OR ENGINEER OF RECORD SEAL AND SIGNATURE SHALL BE CONSIDERED NOT FOR CONSTRUCTION

EXTERIOR EXPANSION FLOOR PLANS AND DETAILS

SHEET: OP1.0

STIPULATION FOR REUSE  
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JOB NUMBER: WALGPP002 | PHOTO: 192 GROCERY EXP

ISSUE BLOCK		
3	ADD2	05/11/22

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DOCUMENT DATE: 09/08/21

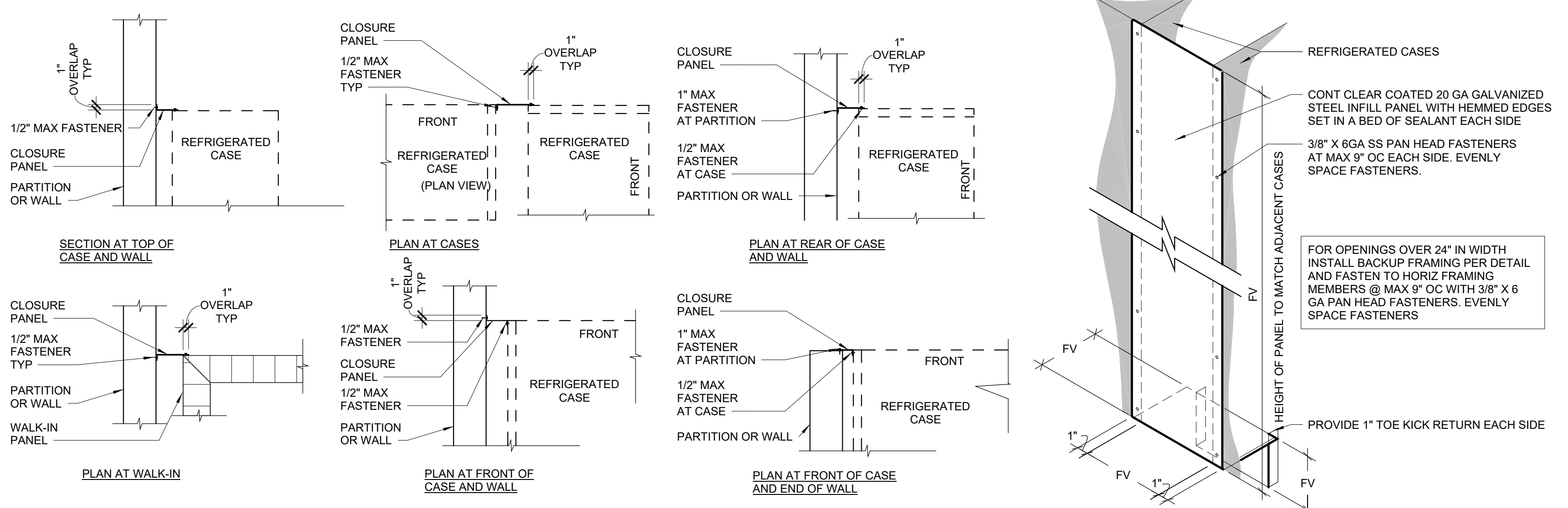
REGISTERED ARCHITECT  
CHRISTOPHER K. DOERSCHLAG  
STATE OF WASHINGTON  
05/12/2022

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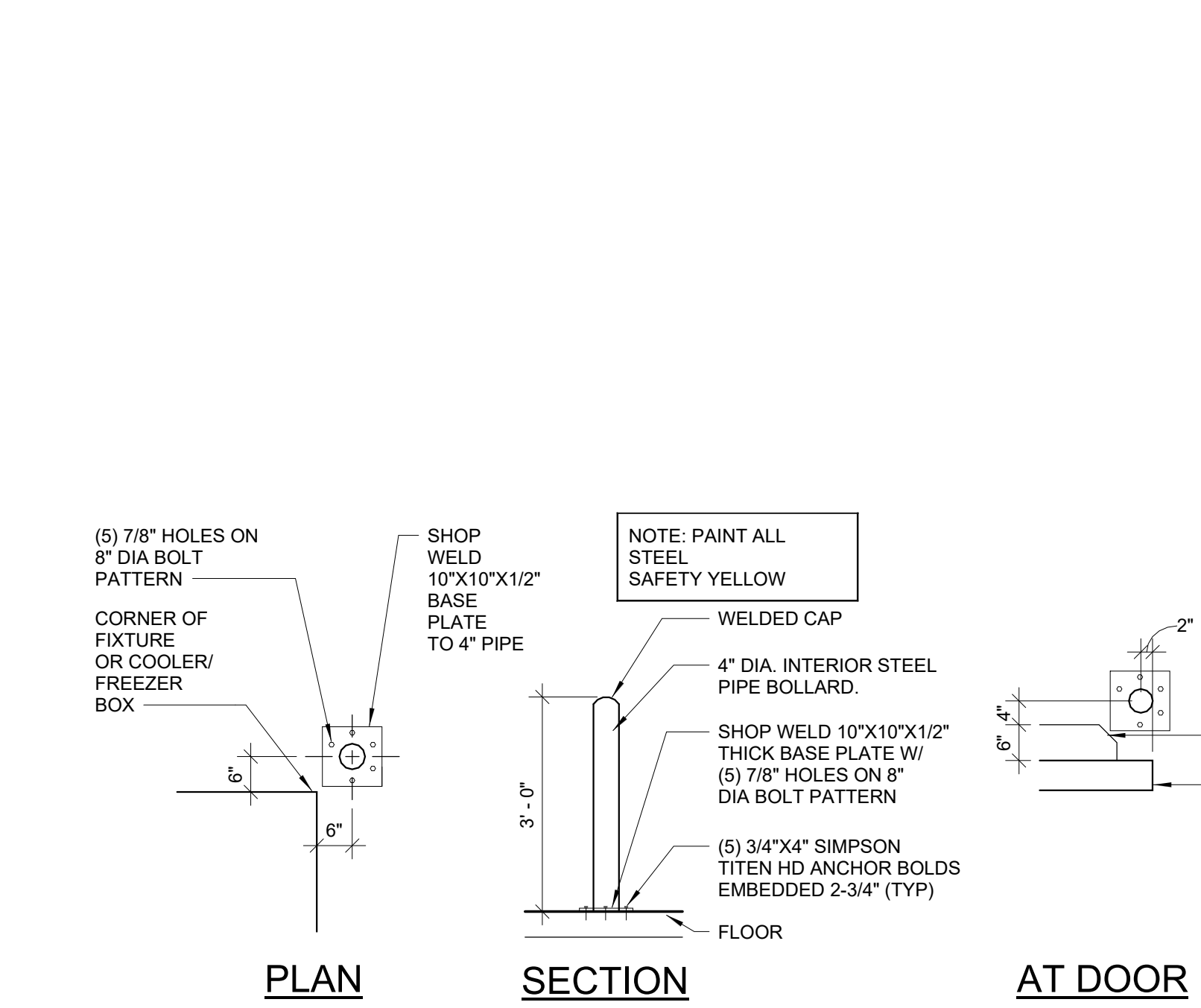
ENLARGED WALK-IN PLANS AND DETAILS

SHEET: OP1.1

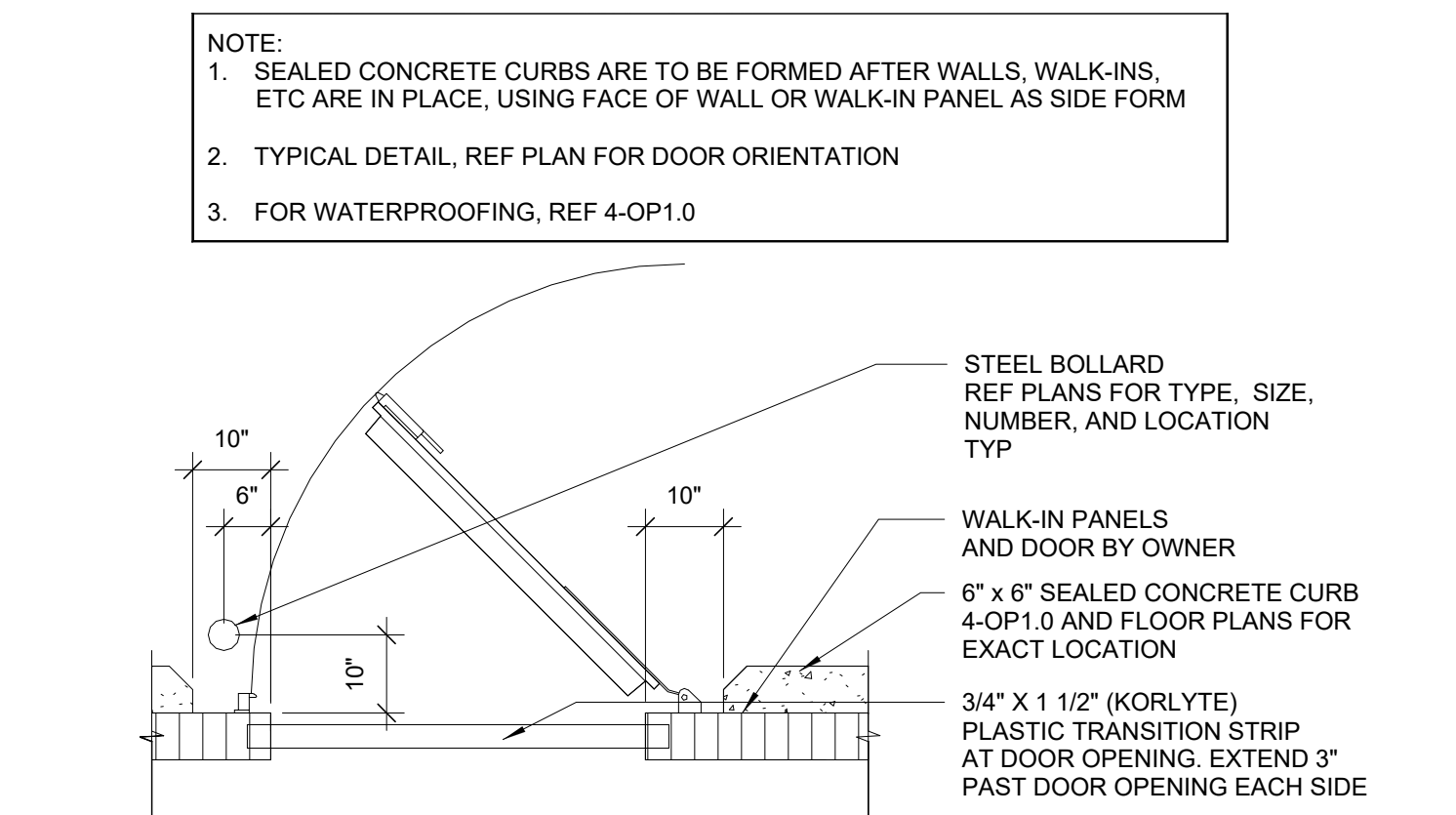
- NOTES:
- REFRIGERATION CONTRACTOR TO PROVIDE GALVANIZED CLOSURE PANELS AT ALL VERTICAL GAPS AND AT ALL HORIZONTAL GAPS 5/2" OR LOWER AFF BETWEEN REFRIGERATED CASE, WALLS, AND/OR EQUIPMENT.
  - PROVIDE STAINLESS STEEL CLOSURE PANELS LOCATED IN PREP AREAS.
  - REF FLOOR PLANS FOR ALL PARTITION TYPES AND LOCATIONS.
  - EASE EXPOSED EDGES TO SMALL UNIFORM RADIUS.
  - SET CLOSURE PANEL IN A BED OF SEALANT EACH SIDE.
  - FASTEN CLOSURE PANELS WITH #6 PAN HEAD SCREWS AT 9" OC.
  - CLOSURE PANELS TO BE FASTENED ONLY TO THE BACK OF THE REFRIGERATED CASE OR END PANEL SKINS AS INDICATED IN THE DRAWINGS.



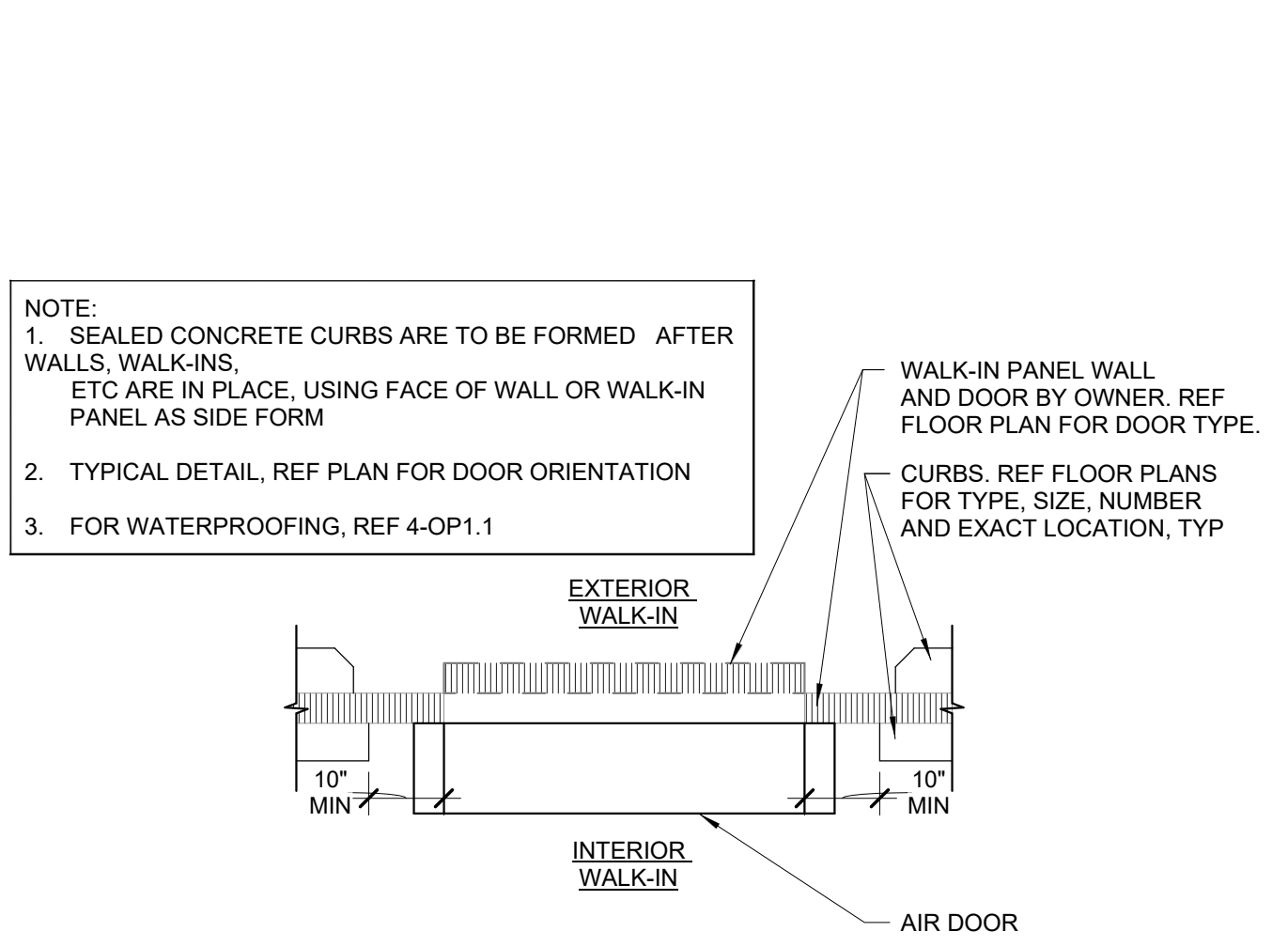
13 CLOSURE PANEL DETAIL  
3/4" = 1'-0"



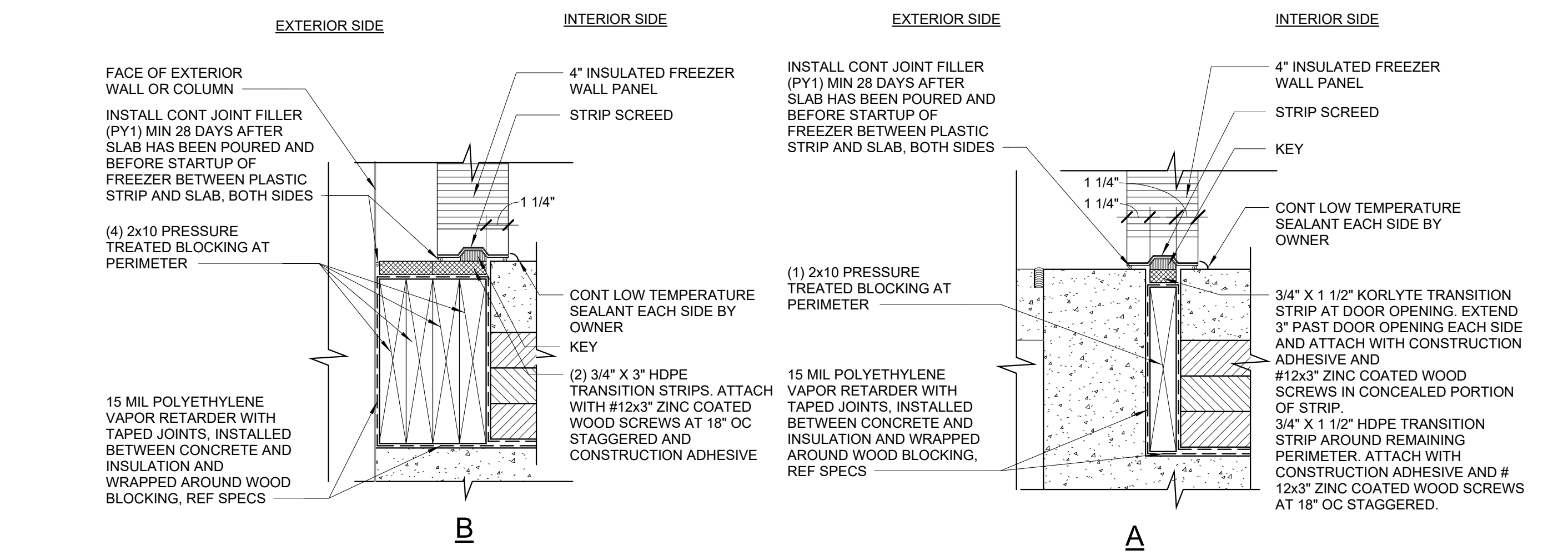
12 SLAB MOUNTED BOLLARD DETAIL  
1/2" = 1'-0"



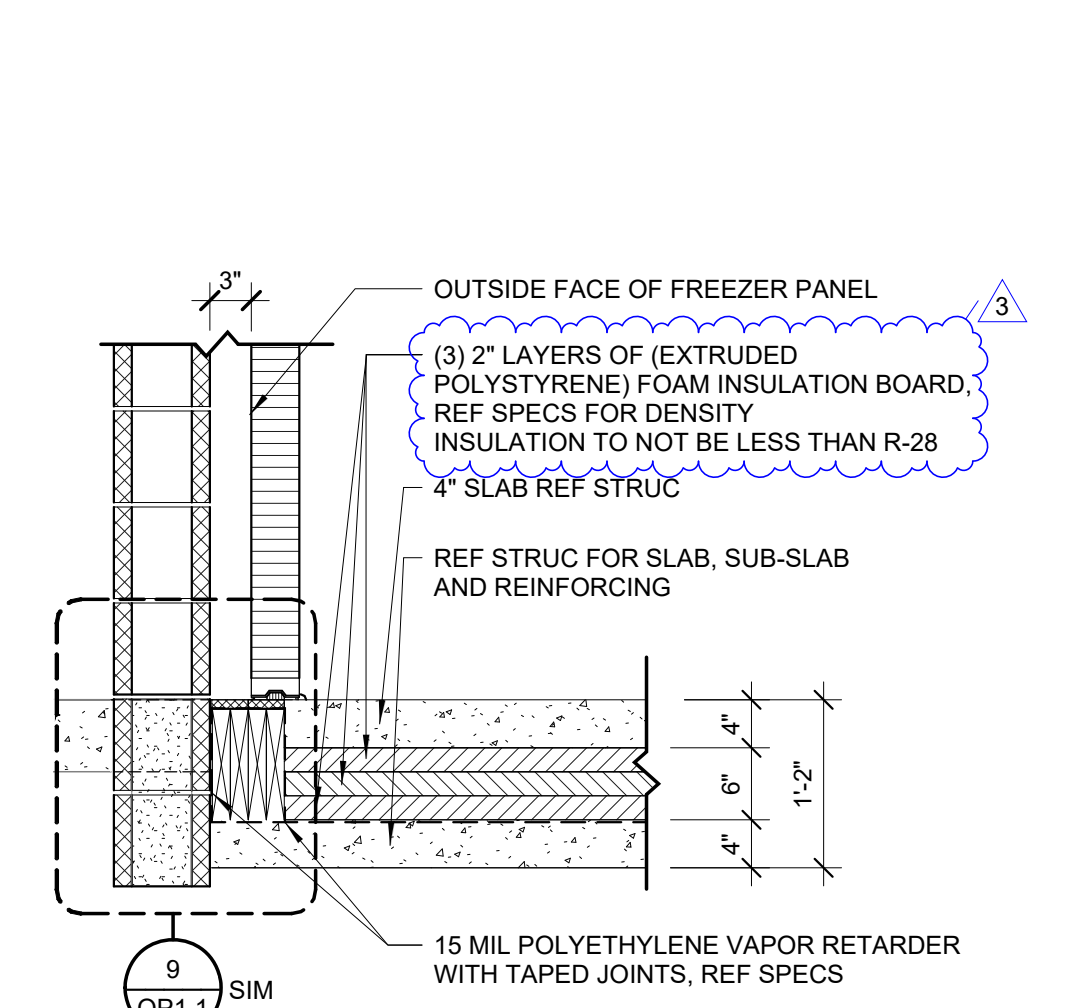
11 SINGLE ACTING DOOR AT WALK-IN  
1/2" = 1'-0"



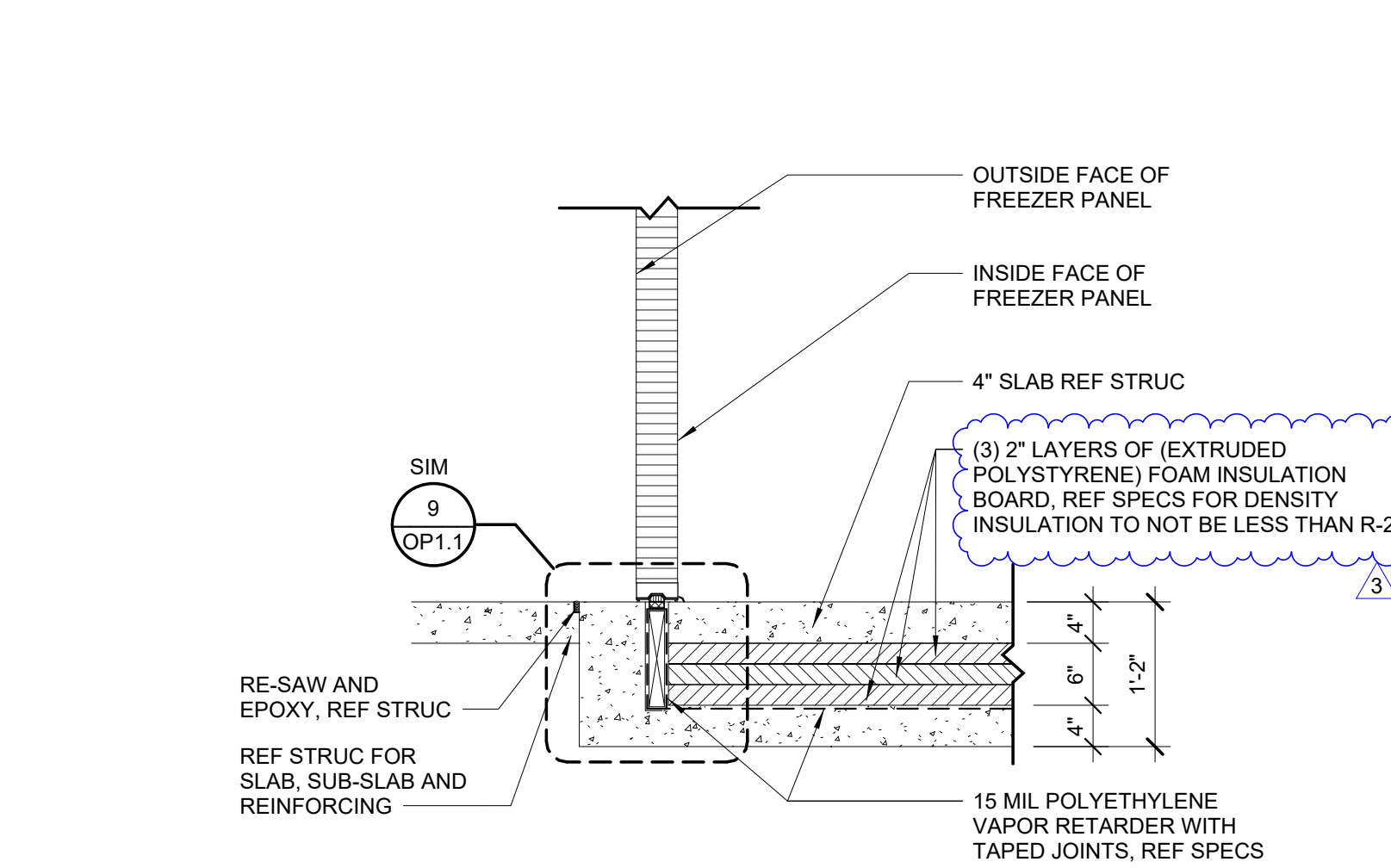
10 PUSH THROUGH VESTIBULE (HCR) DOOR AT WALK-IN  
1/2" = 1'-0"



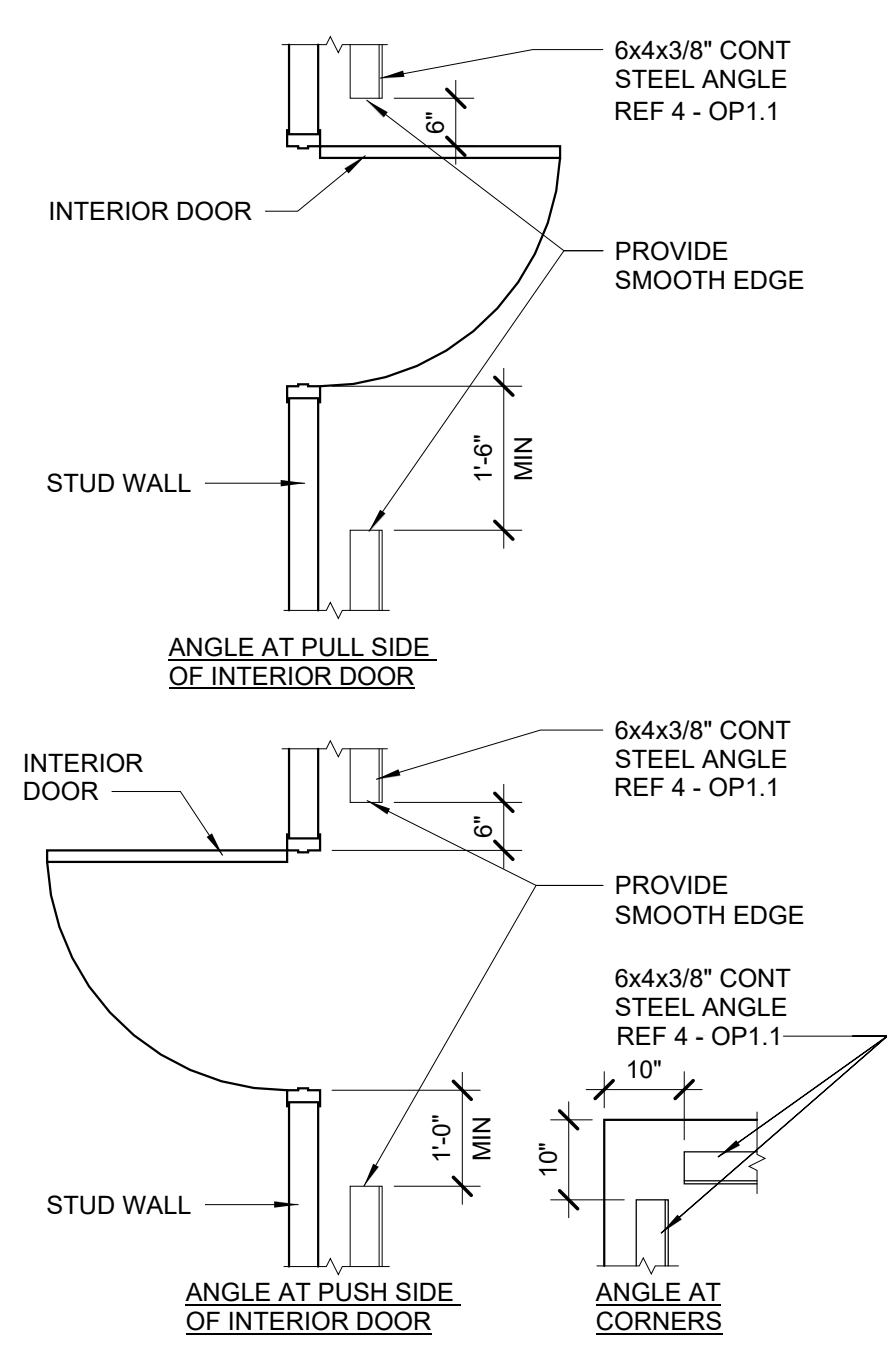
9 ENLARGED DETAIL AT PLASTIC TRANSITION STRIP  
1" = 1'-0"



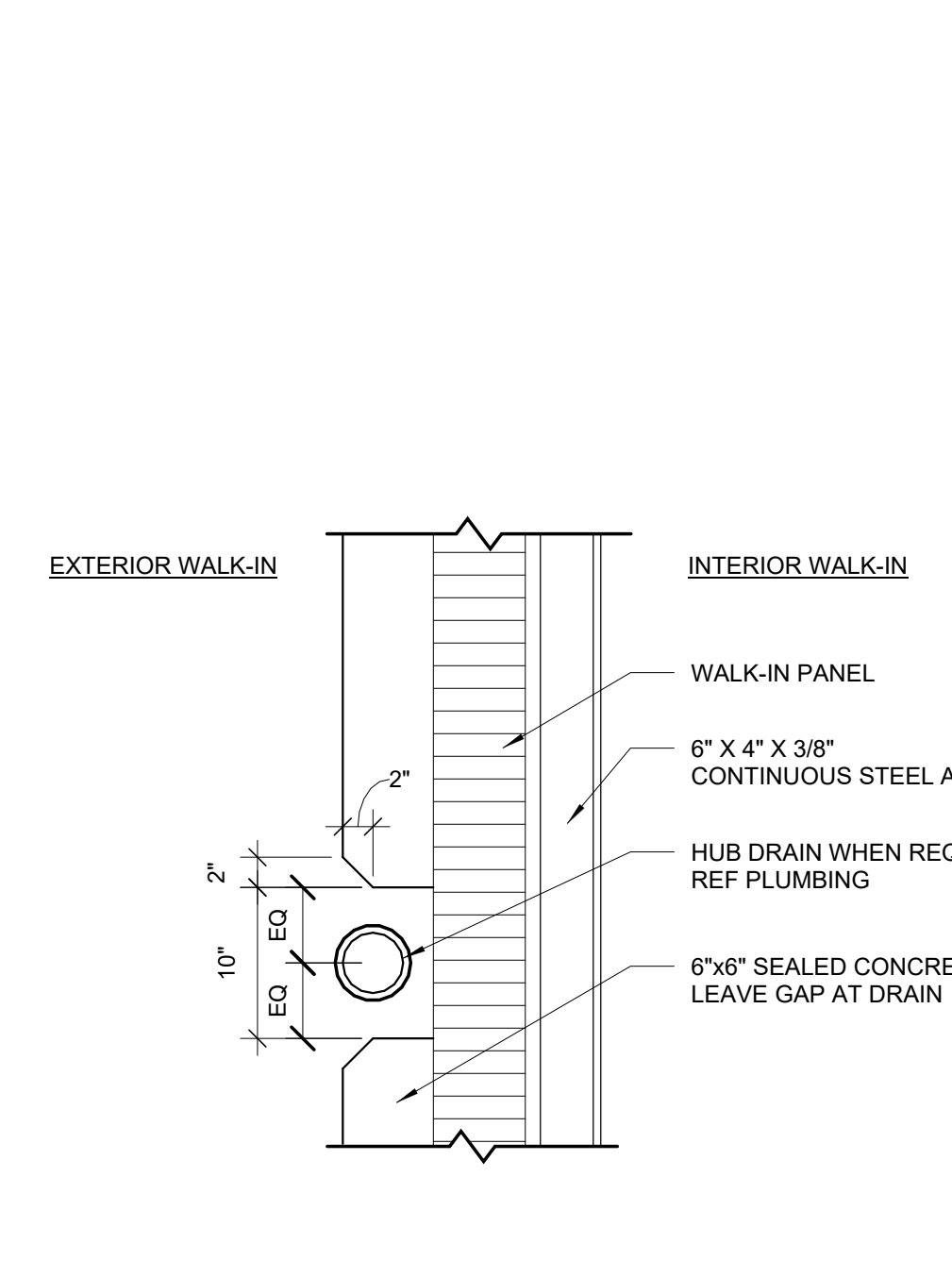
8 INSULATED FREEZER SLAB AT EXTERIOR WALL  
3/4" = 1'-0"



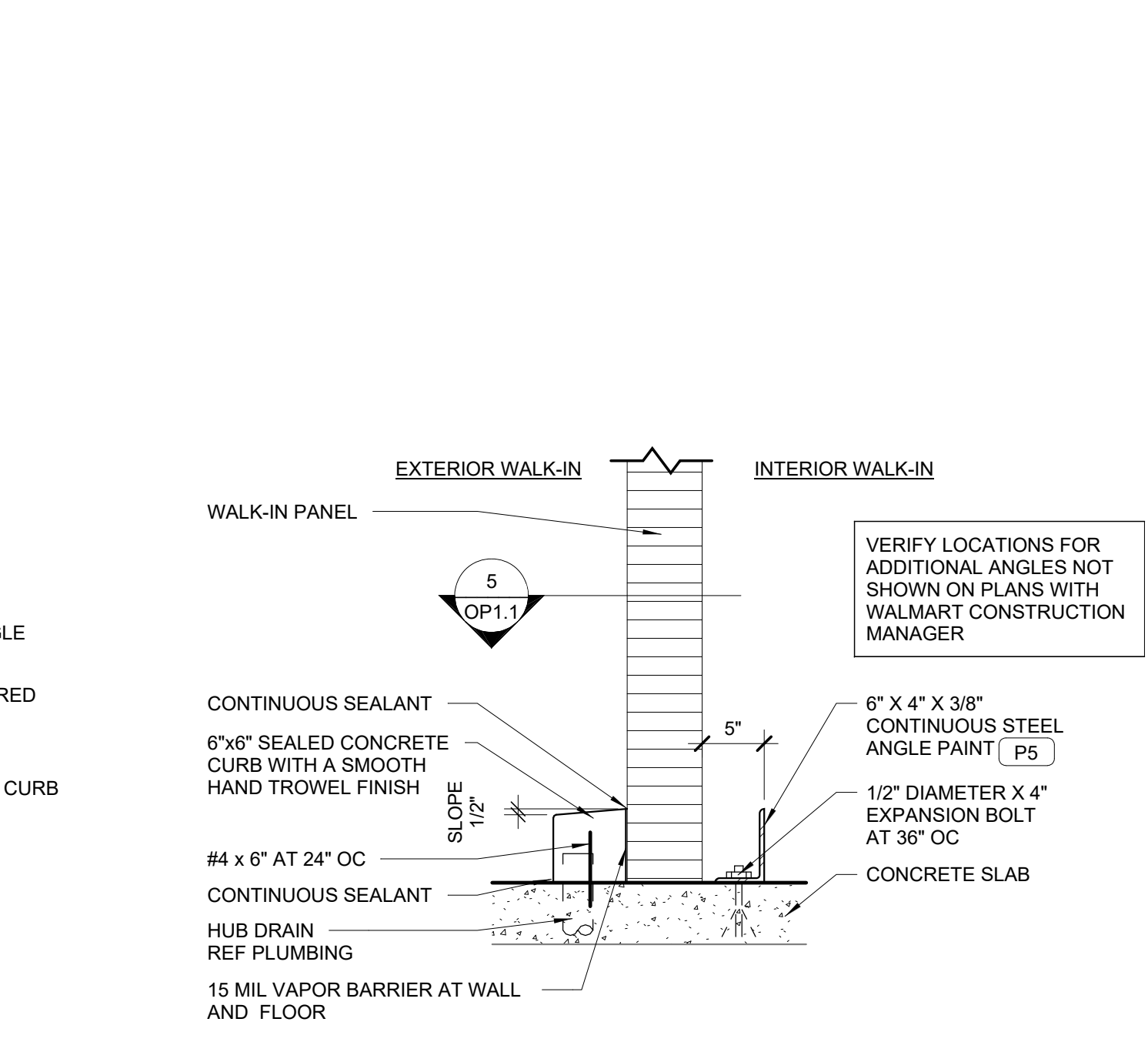
7 INSULATED FREEZER SLAB  
3/4" = 1'-0"



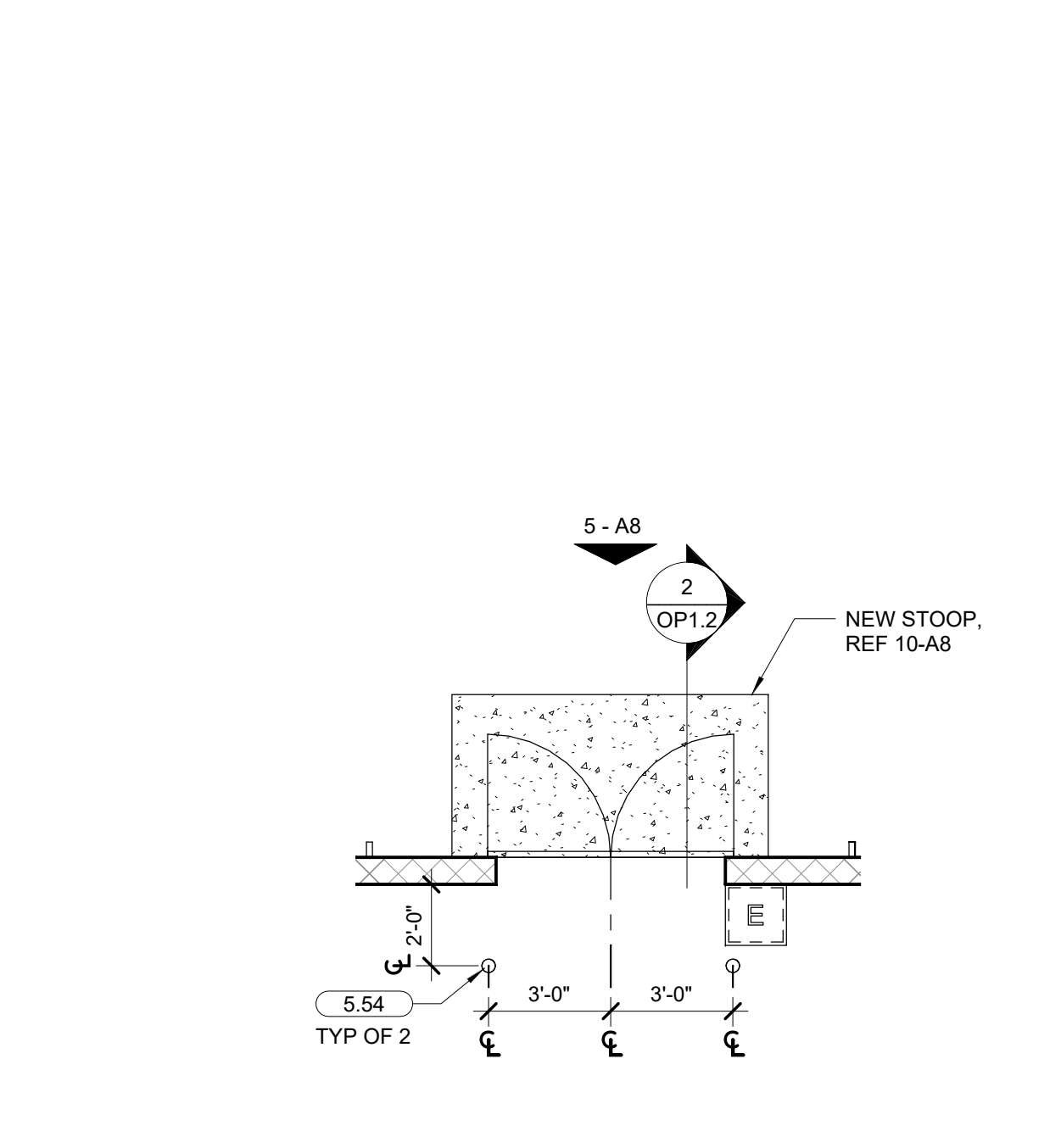
6 PROTECTOR ANGLE  
1/2" = 1'-0"



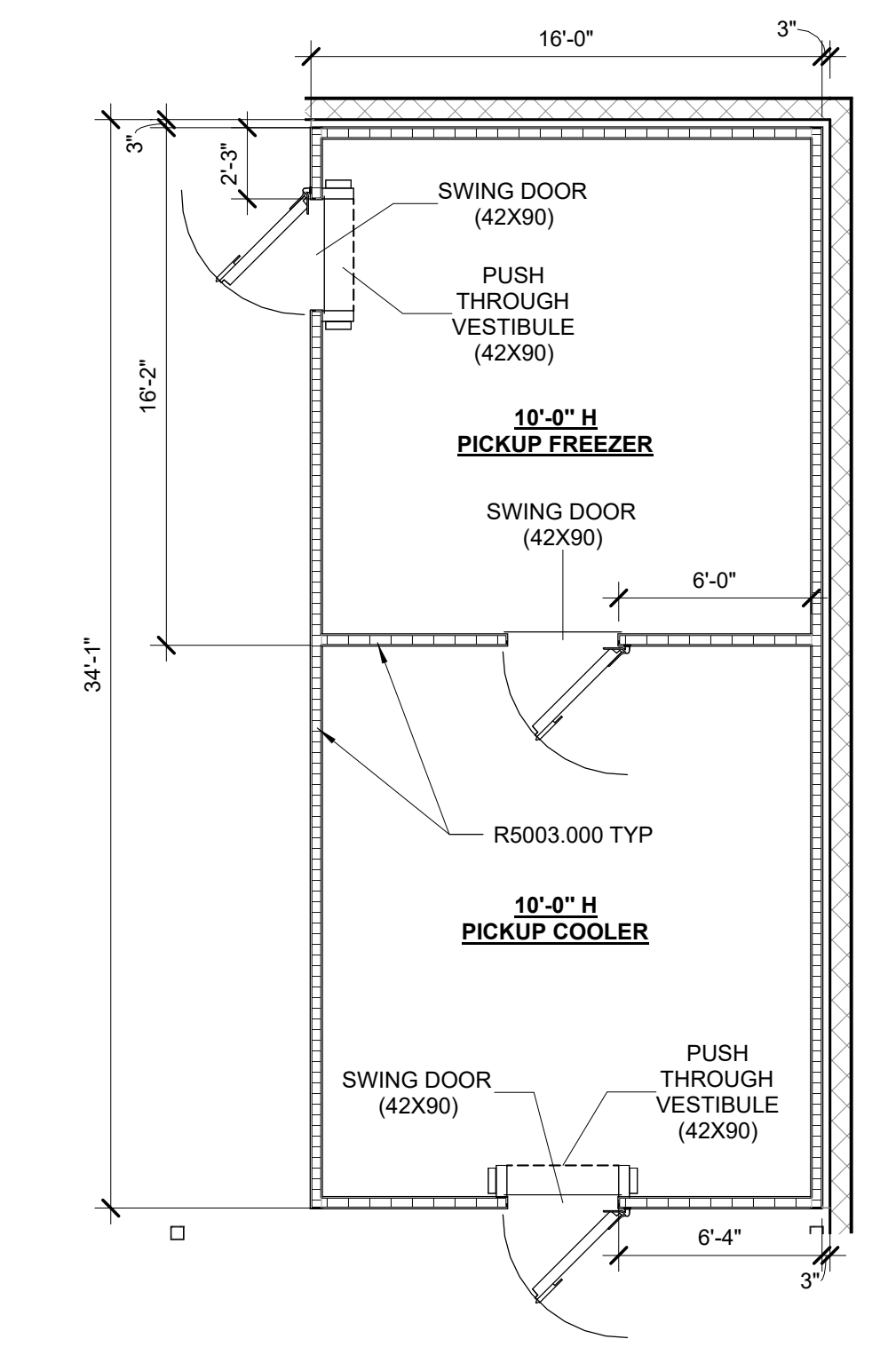
5 CURB/FUNNEL DRAIN  
1" = 1'-0"



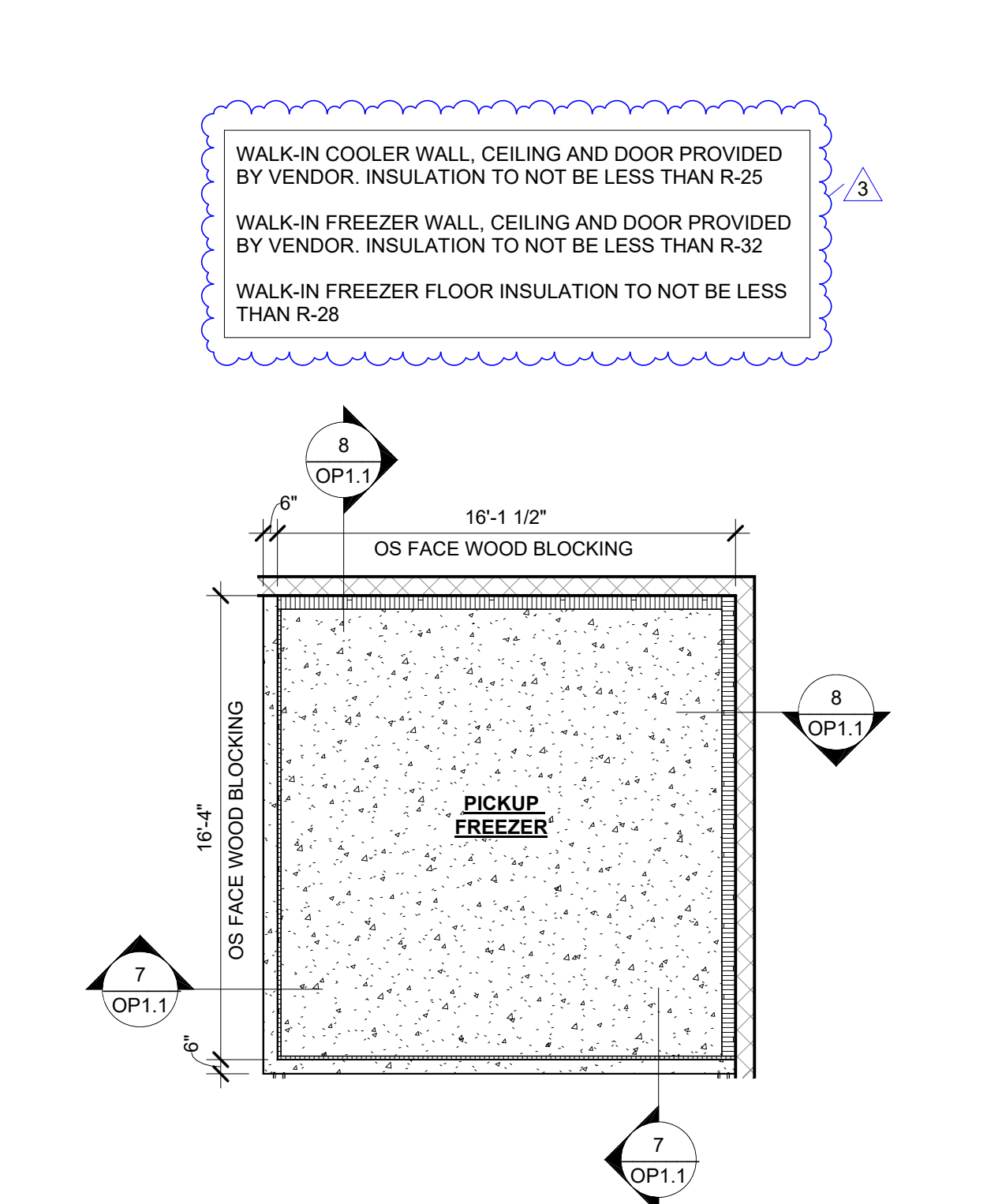
4 CURB & PROTECTOR ANGLE  
1" = 1'-0"



3 ENLARGED BOLLARD PLAN  
1/4" = 1'-0"



2 WALK-IN PLAN  
3/16" = 1'-0"



1 FREEZER UNDERSLAB PLAN  
3/16" = 1'-0"

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT AS-BUILT CONDITIONS. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS. EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELVES WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

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3	ADDR2	05/11/22
4	ADDR6	6/23/2022

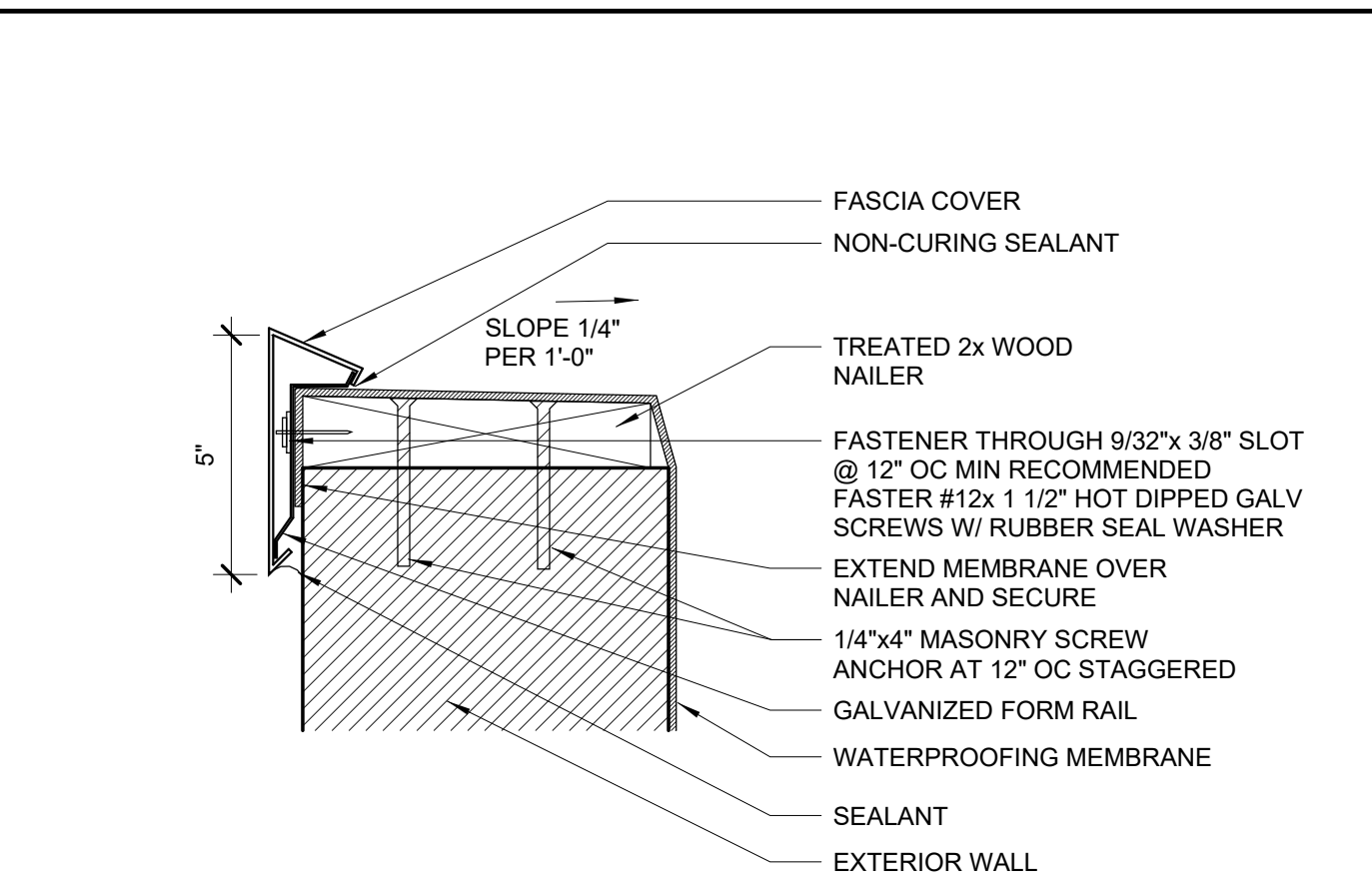
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07/07/2022

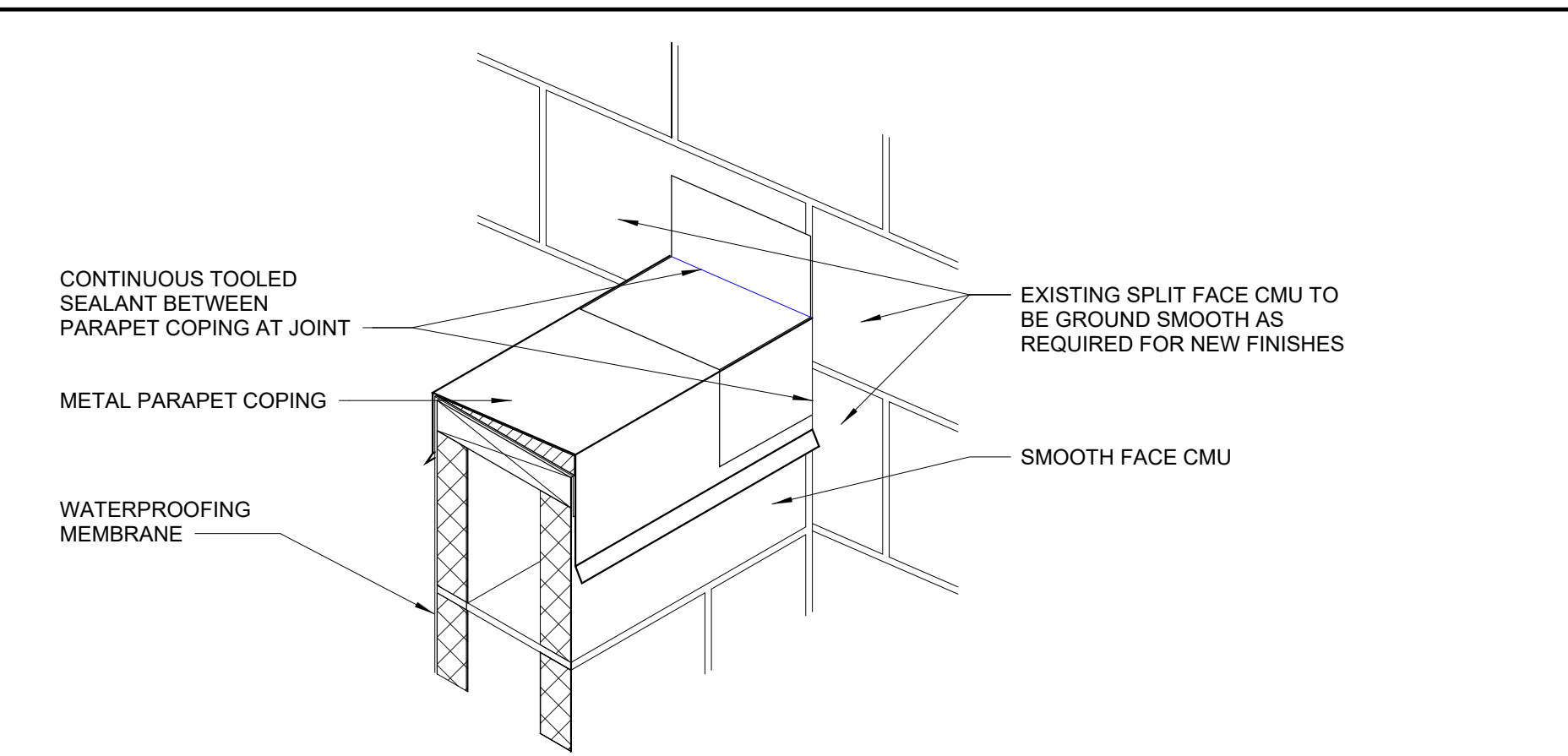
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EXPANSION WALL SECTIONS AND DETAILS

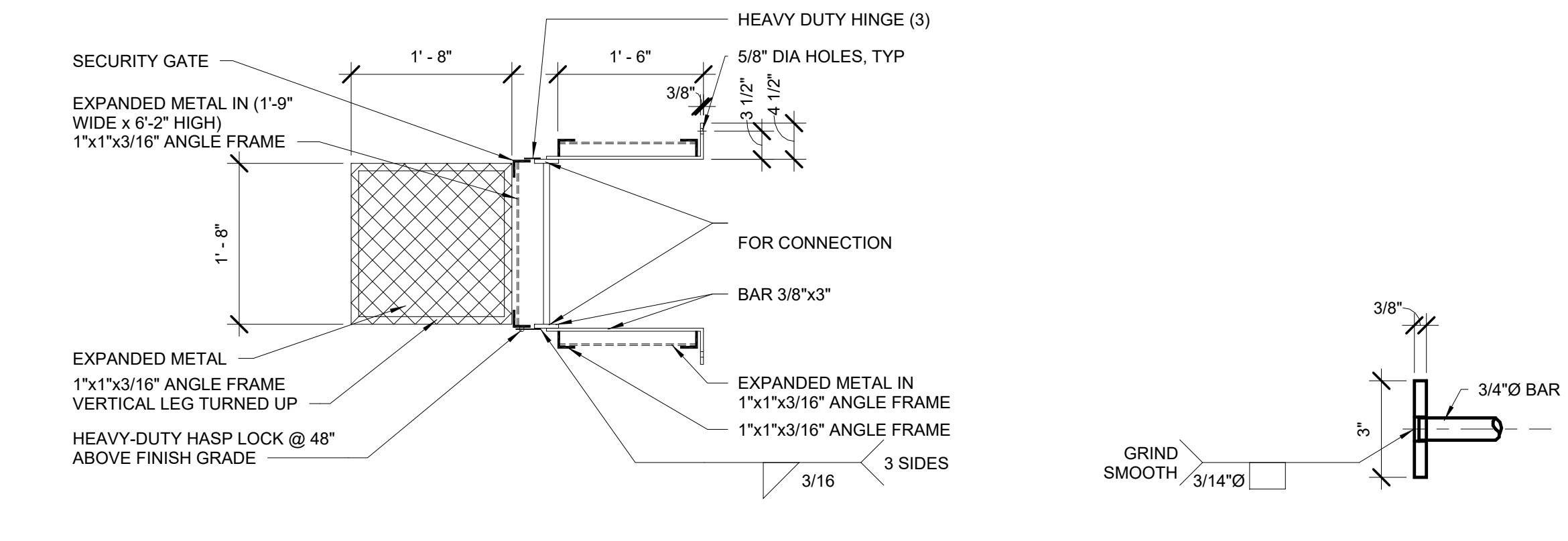
SHEET: OP1.2



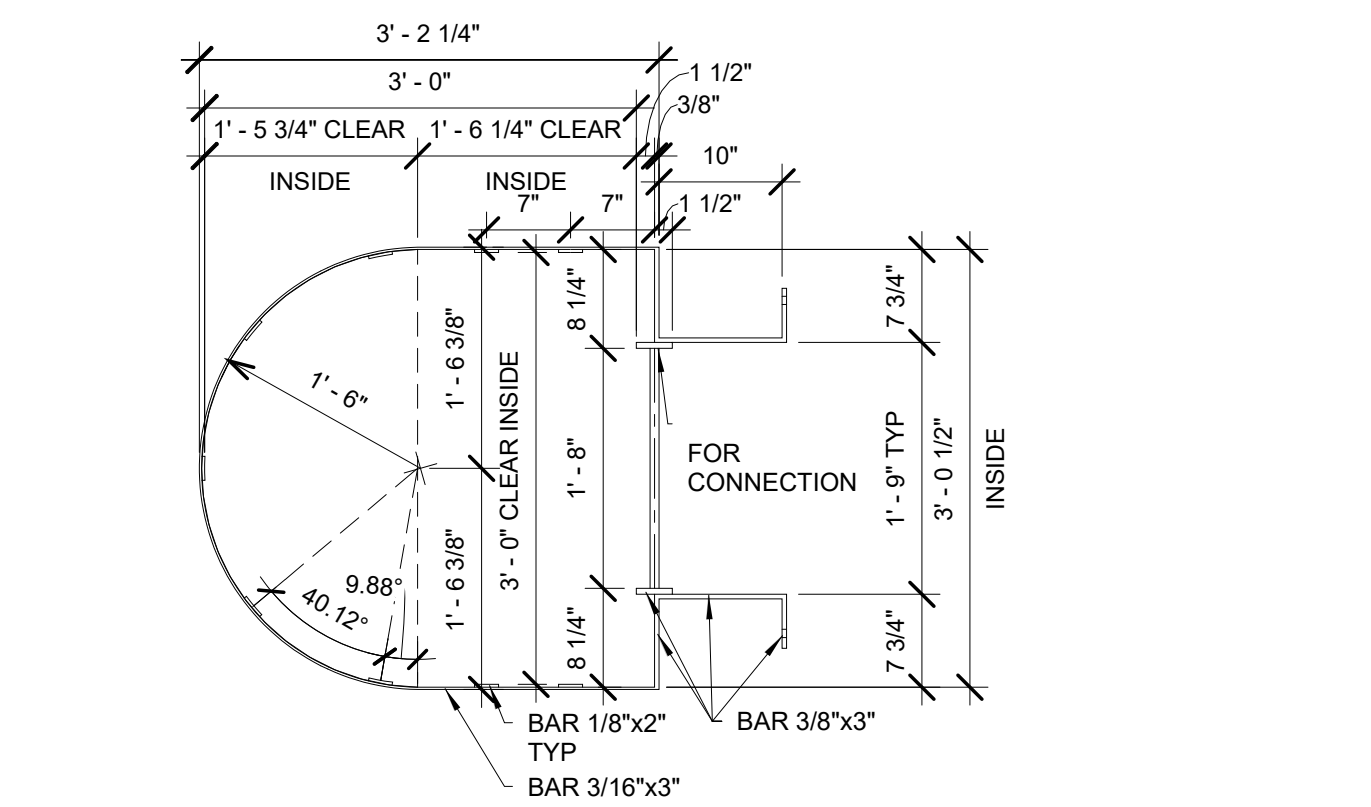
**8 ROOF PARAPET CAP FLASHING**  
3/4" = 1'-0"



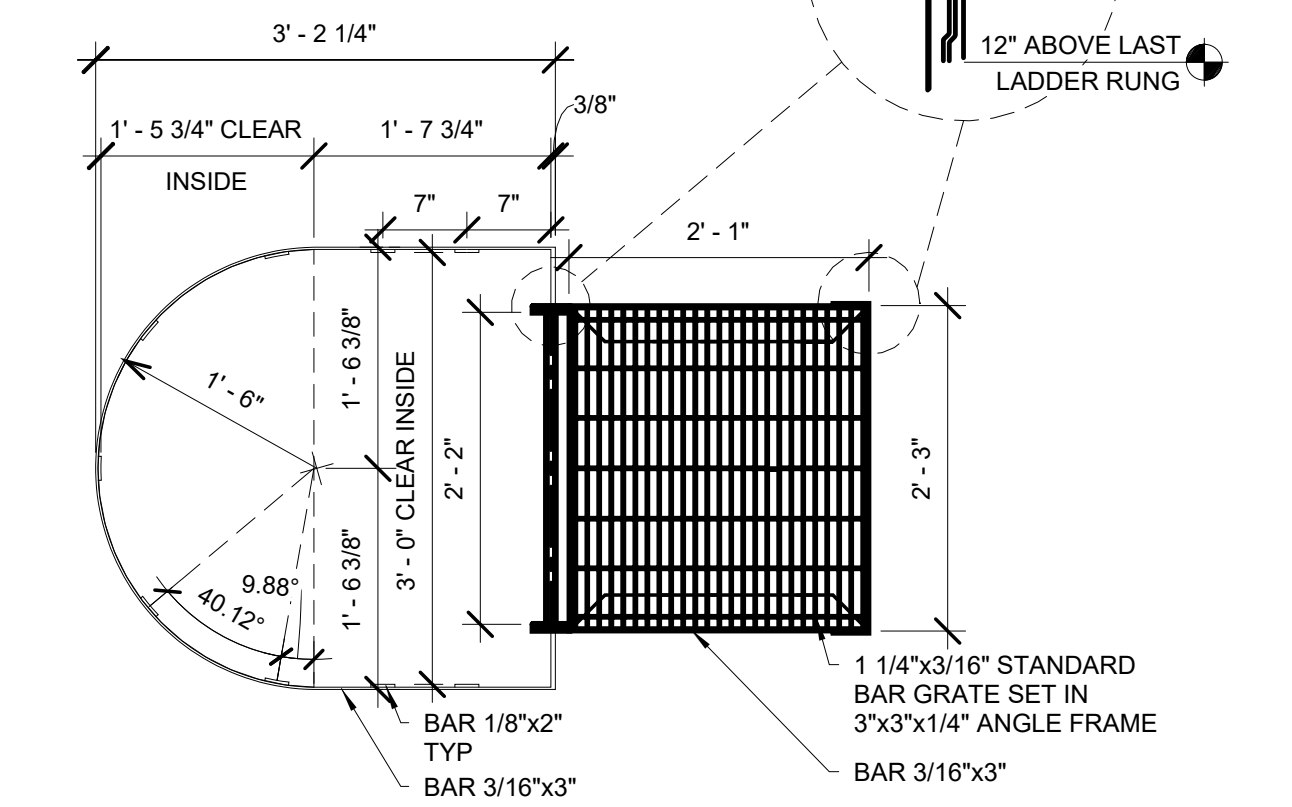
**9 PARAPET CAP FLASHING AT WALL**  
1 1/2" = 1'-0"



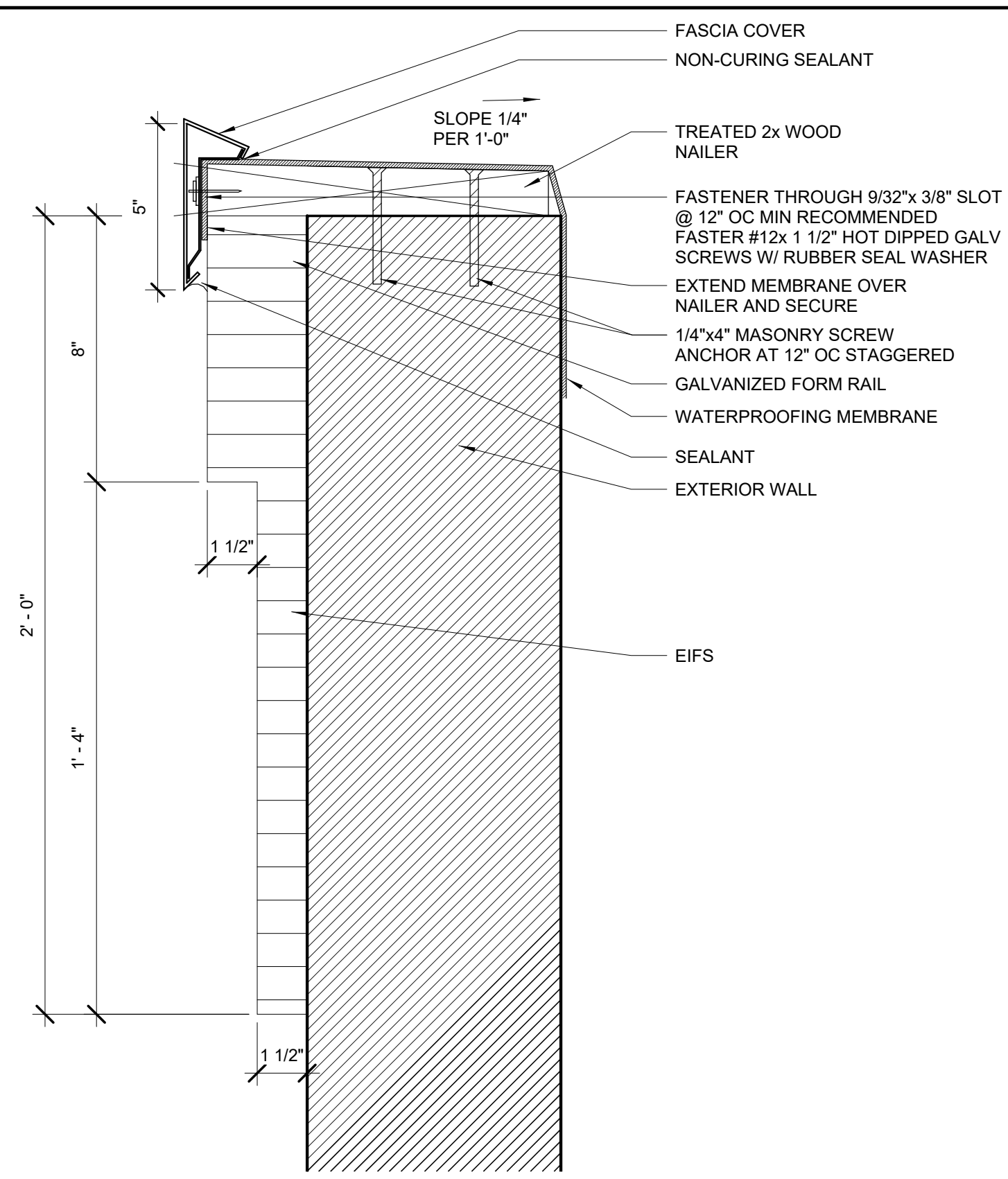
**5 ROOF LADDER SECTION**  
3/4" = 1'-0"



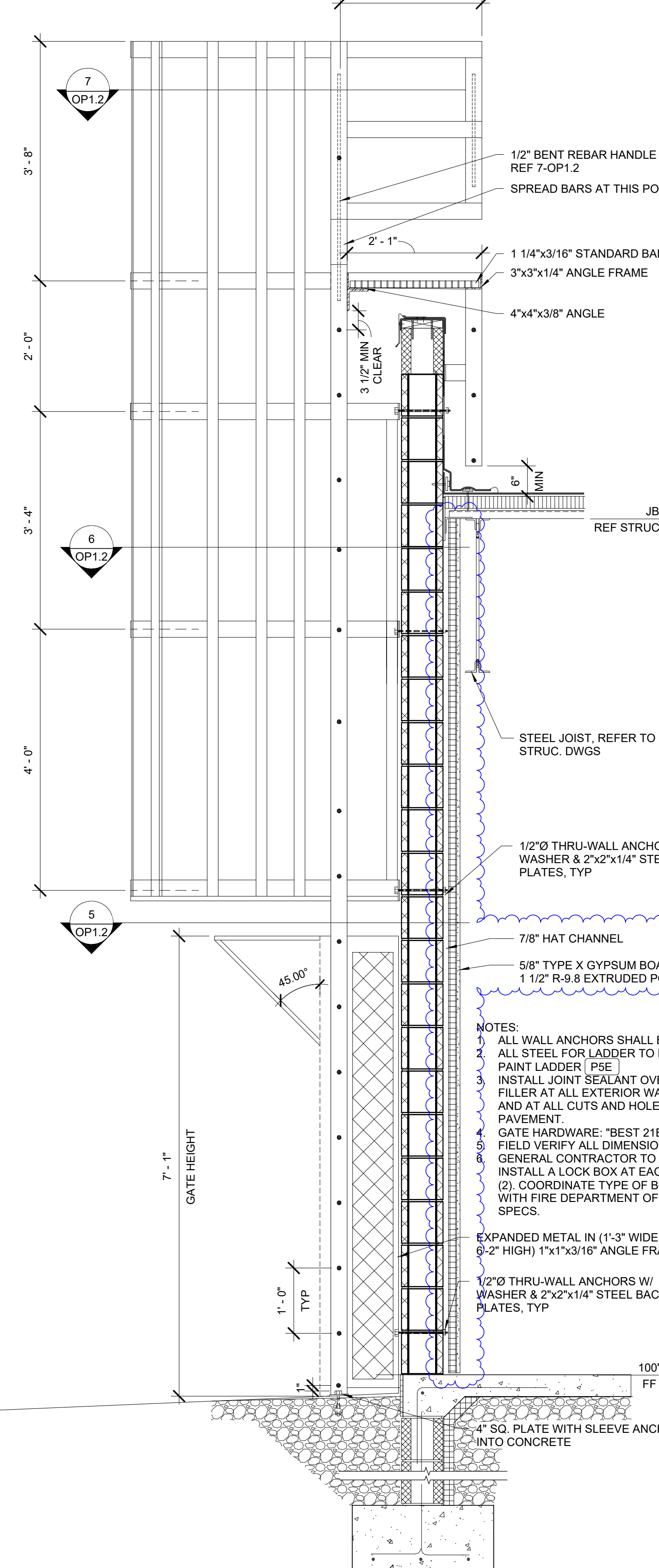
**6 ROOF LADDER SECTION**  
3/4" = 1'-0"



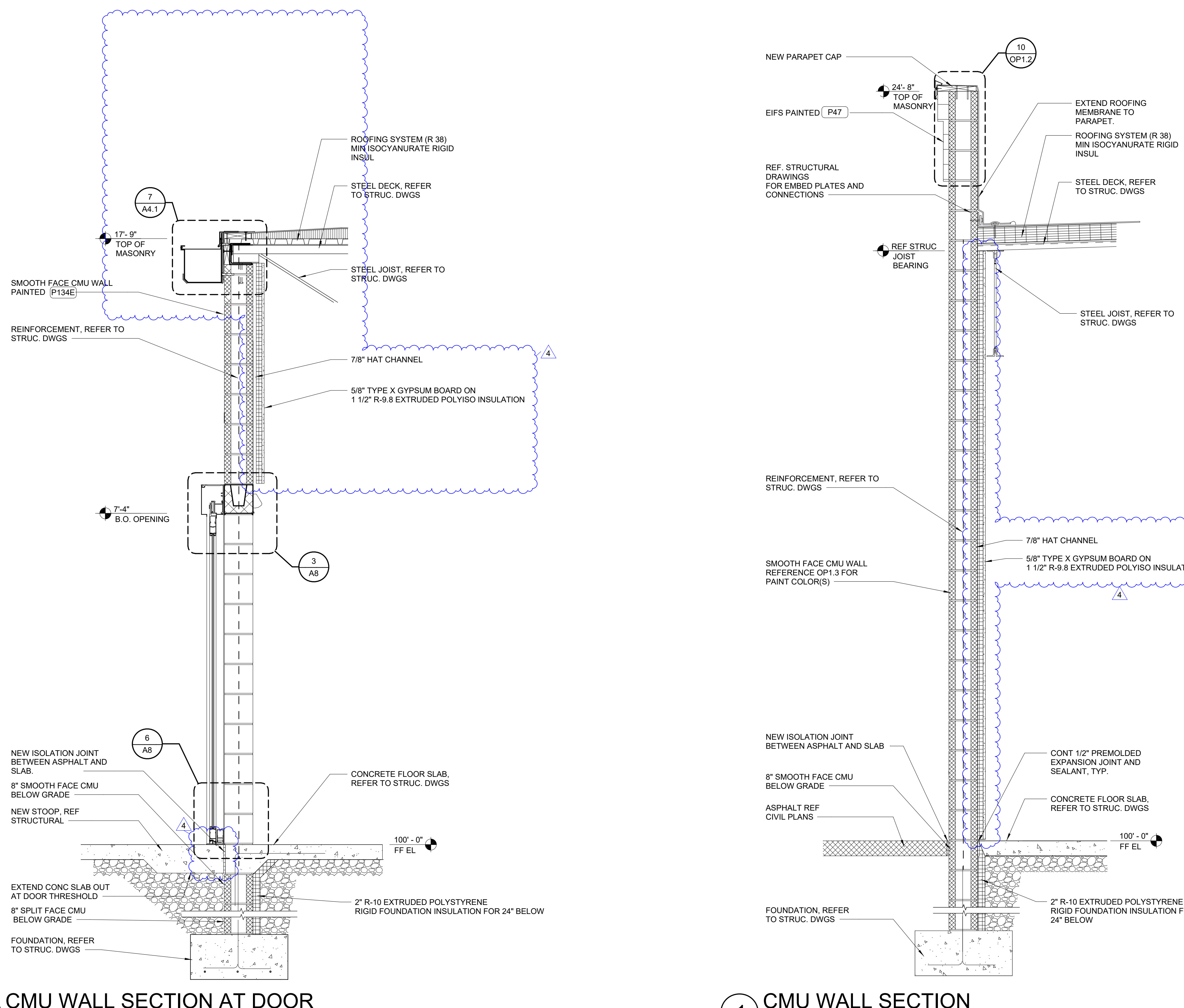
**7 ROOF LADDER SECTION**  
3/4" = 1'-0"



**10 ROOF PARAPET CAP FLASHING**  
3/4" = 1'-0"



**3 ROOF LADDER WALL SECTION**  
3/4" = 1'-0"



**1 CMU WALL SECTION**  
3/4" = 1'-0"

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**306.5 Equipment and appliances on roofs or elevated structures.** Where equipment requiring access or appliances are located on an elevated structure or the roof of a building such that personnel will have to climb higher than 16 feet (4877 mm), an interior or exterior means of access shall be provided. Such access shall not require climbing over obstructions greater than 30 inches (762 mm) in height or walking on roofs having a slope greater than 4 units vertical in 12 units horizontal (33 percent slope). Such access shall not require the use of portable ladders. Where access involves climbing over parapet walls, the height shall be measured to the top of the parapet wall. Permanent ladders installed to provide the required access shall comply with the following minimum design criteria:

1. The side railing shall extend above the parapet or roof edge not less than 42 inches (1067 mm).
2. Ladders shall have rung spacing not to exceed 12 inches (305 mm) on center. The uppermost rung shall be a maximum of 24 inches below the upper edge of the roof hatch, roof or parapet, as applicable.
3. Ladders shall have a toe spacing not less than 7 inches (178 mm) deep.
4. There shall be a minimum of 18 inches (457 mm) between rails.
5. Rungs shall have a minimum 0.75-inch (19 mm) diameter and be capable of withstanding a 300-pound (136.1 kg) load.
6. Ladders over 30 feet (9144 mm) in height shall be provided with offset sections and landings capable of withstanding 100 pounds (48.2 kg/m<sup>2</sup>) per square foot. Landing dimensions shall be not less than 18 inches (457 mm) and not less than the width of the ladder served. A guard rail shall be provided on all open sides of the landing. Landing dimensions shall be not less than 18 inches and not less than the width of the ladder served. A guardrail shall be provided on all open sides of the landing.
7. Climbing clearances. The distance from the centerline of the rungs to the nearest permanent object on the climbing side of the ladder shall be a minimum of 30 inches measured perpendicular to the rungs. This distance shall be maintained from the point of ladder access to the bottom of the roof hatch. A minimum clear width of 15 inches shall be provided on both sides of the ladder measured from the midpoint of and parallel with the rungs except where cages or wells are installed.
8. Landing required. The ladder shall be provided with a clear and unobstructed bottom landing area having a minimum dimension of 30 inches by 30 inches centered in front of the ladder.
9. Ladders shall be protected against corrosion by approved means.
10. Access to ladders shall be provided at all times.



KEYNOTES

- 13.10 3/8" NET OPENING. COORDINATE WITH CEILING GRID ACCESS WHEN APPLICABLE
- 13.11 HATCH AREA INDICATES PROPOSED CEILING GRID ACCESS

GENERAL NOTES

- ROUTE CONDUITS, UTILITIES, AND SUPPORTS 6" MIN AWAY FROM WALK-IN PANEL EDGES TO ALLOW FOR NET INSTALLATION
- ATTACH BOTTOM WEB OF NET @ 24" OC THROUGH INTEGRAL GROMMETS WITH #10 X 3" WOOD SCREWS AND #10 WASHERS 3/4" FROM EDGE OF WALK-IN PANEL
- CONTINUE STRAP FROM WALK-IN PANEL TO JOIST PANEL POINT OR GIRDER AT CORNERS. ADDITIONAL STRAP REQUIRED.
- REF SPECIFICATION 13300 FOR VERTICAL BARRIER NETTING SYSTEM AND COMPONENTS.

SHEET NOTES

- INSTALLATION SHALL NOT COMMENCE UNTIL WALK-INS AND ALL WORK ABOVE IS INSTALLED. GC SHALL COORDINATE INSTALLATION WITH OWNER CONSTRUCTION MANAGER AND ALL TRADES AND WORK BY OTHERS.
- MEASURE, CUT, AND INSTALL ALL NETTING AND ACCESSORIES PER MANUFACTURER'S INSTRUCTION MANUAL. NETTING MAY LEAN INWARD (TOWARDS CENTER OF WALK-IN BOX), BUT SHALL NOT LEAN OUTWARD (BEYOND PARALLEL TO FACE OF BOX).
- WHERE DUCTS OR PIPING REQUIRE PENETRATION OF NETTING, CUT NETTING AROUND DUCTS OR PIPES AND LASH NETTING ACCORDINGLY.
- EXISTING SAFETY NETTING MAY BE MODIFIED FOR NEW ITEMS LOCATED ABOVE EXISTING BOX, INCLUDING DUCTWORK, CONDUITS, REFRIGERATION LINES, ETC. REF 3-GA3.4. EXISTING SAFETY NET SYSTEM MAY NOT BE USED OR MODIFIED FOR NEW BOXES REPLACING EXISTING BOXES.



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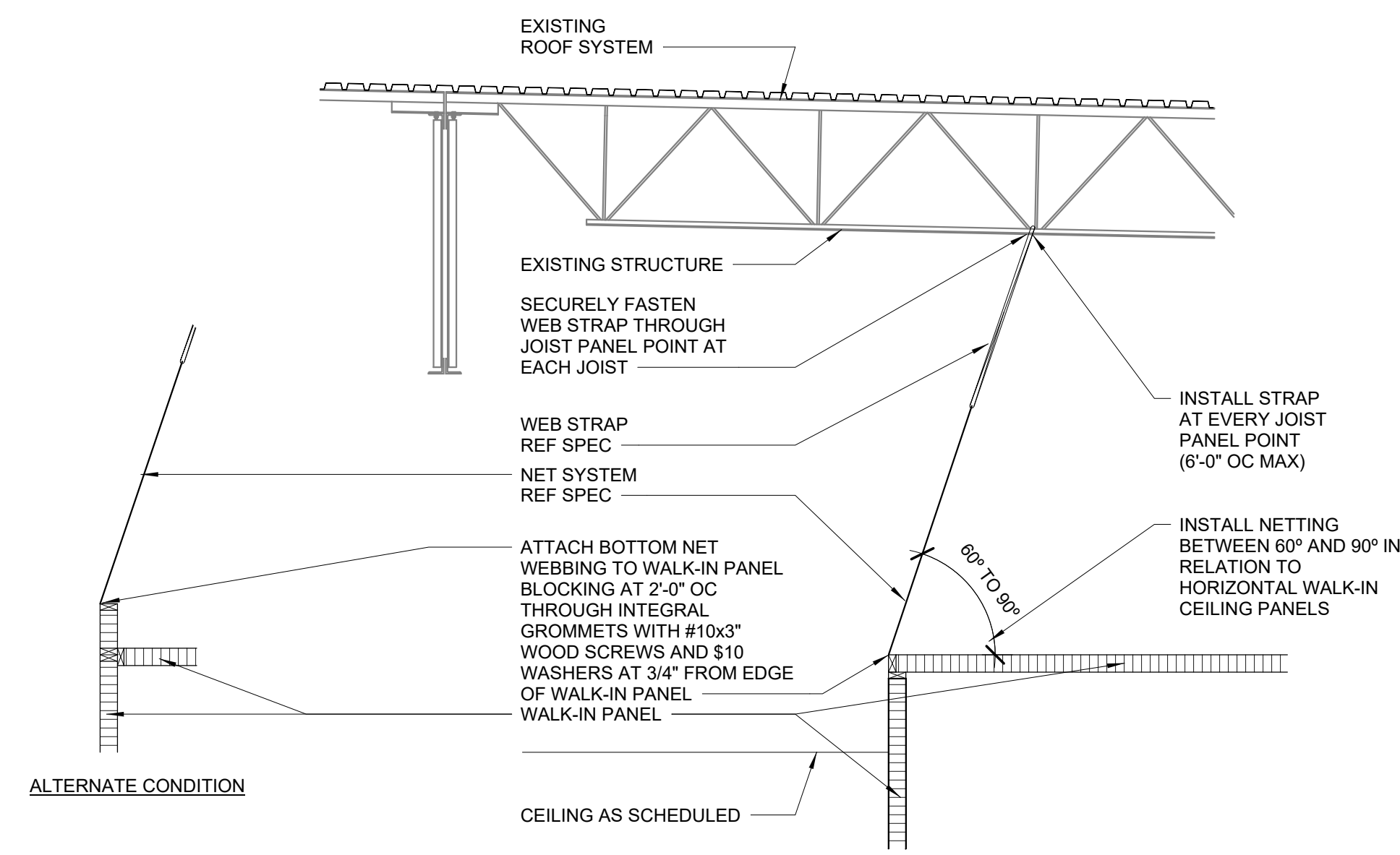
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09/15/2021

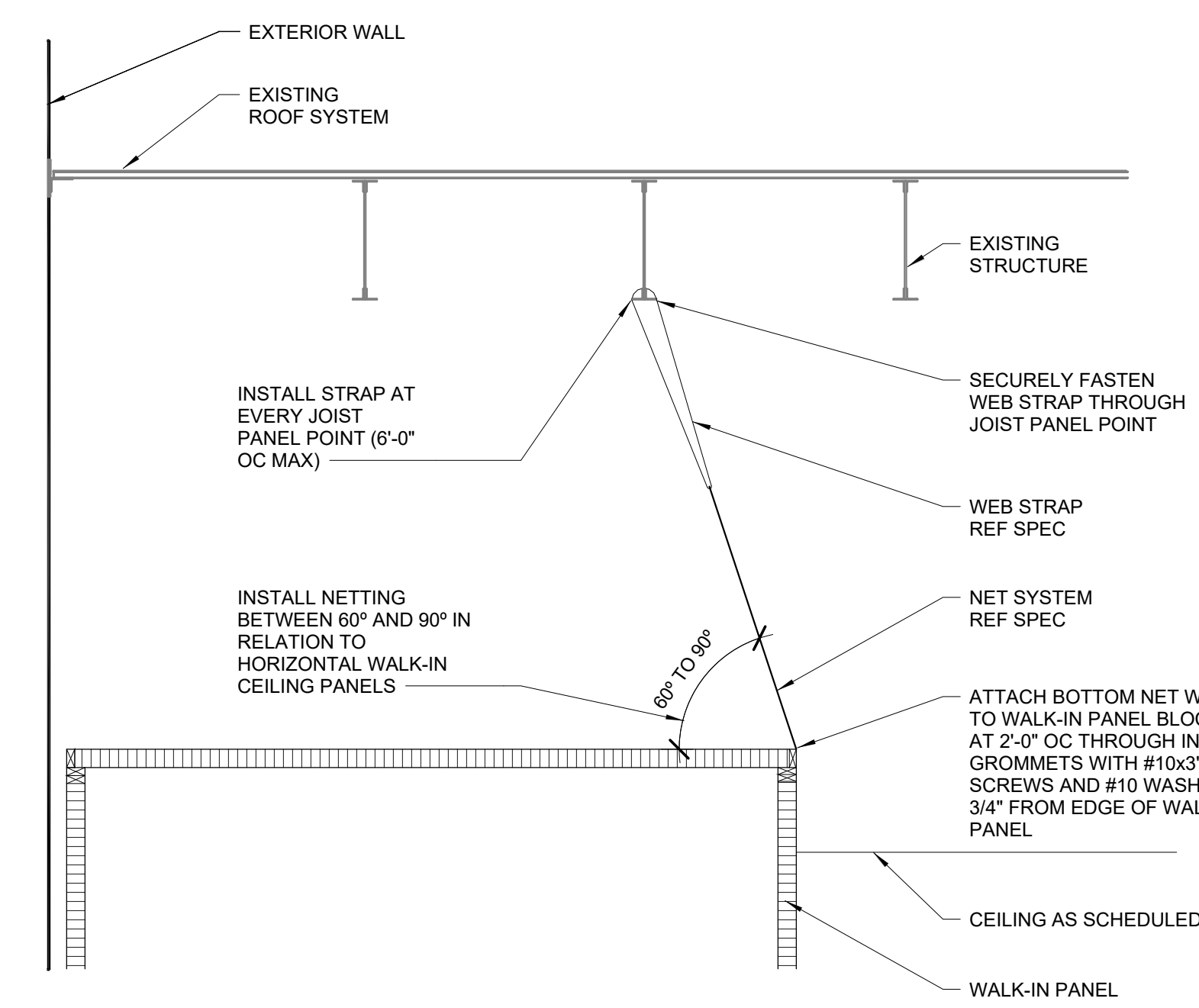
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EDGE PROTECTION

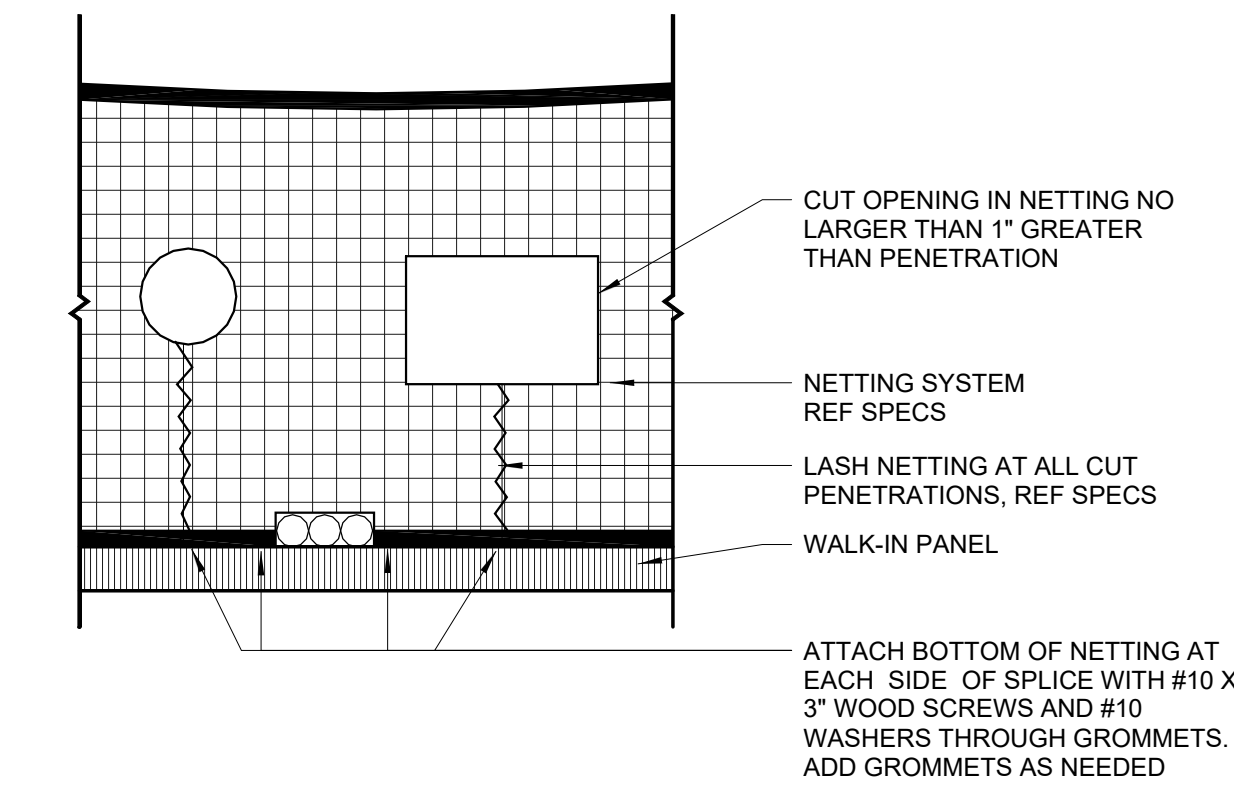
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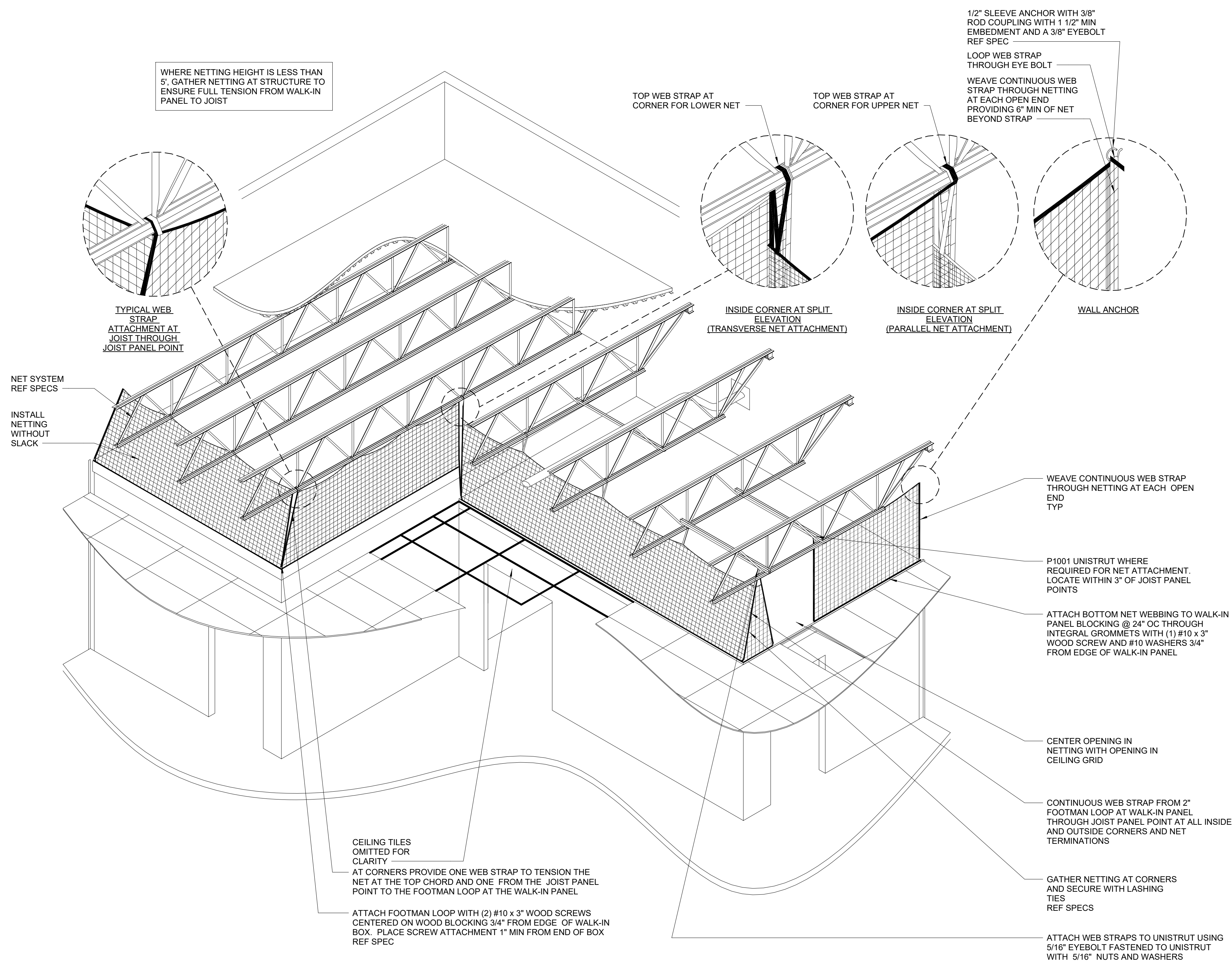
5 NET SYSTEM ATTACHMENT PERPENDICULAR TO STRUCTURE  
3/8" = 1'-0"



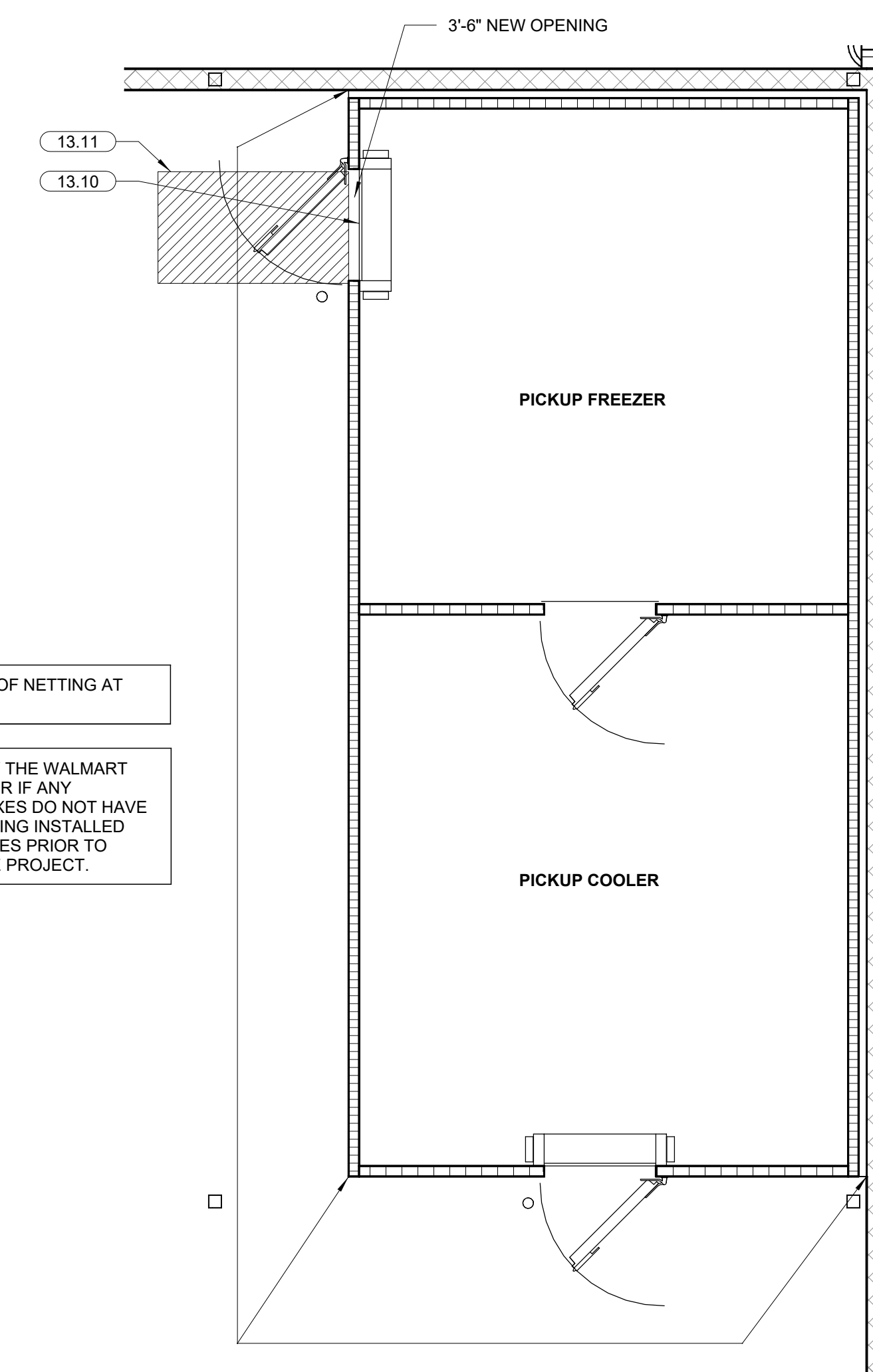
4 NETTING PENETRATION  
3/8" = 1'-0"



3 NETTING PENETRATION  
1/2" = 1'-0"



2 NET SYSTEM ON WALK-IN BOX  
1/4" = 1'-0"



1 SAFETY NET PLAN  
1/4" = 1'-0"

LINE INDICATES EXTENT OF NETTING AT TOP OF WALK-IN

CONTRACTOR TO NOTIFY THE WALMART CONSTRUCTION MANAGER IF ANY EXISTING TO REMAIN BOXES DO NOT HAVE EDGE PROTECTION NETTINGS INSTALLED ABOVE THE WALK-IN BOXES PRIOR TO COMMENCEMENT OF THE PROJECT.

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT AS-BUILT CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

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GENERAL NOTES

- GENERAL 1. FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE THE WORK SHOWN OR IMPLIED BY THESE DRAWINGS... 2. EXISTING CONDITIONS SHOWN MAY NOT REFLECT EXACT 'AS-BUILT' CONDITIONS...

- FOOTINGS 1. FOOTING DESIGNS ARE BASED ON A NET ALLOWABLE SOIL BEARING PRESSURE OF 3,000 PSF... 2. EXTERIOR FOOTINGS SHALL BEAR AT OR BELOW MINIMUM BEARING DEPTH...

- CONCRETE SLABS ON GRADE 1. SLABS ON-GRADE ARE UNREINFORCED CONCRETE UNLESS NOTED OTHERWISE... 2. PROVIDE SAW CUT JOINTS AT 12'-0" OC MAXIMUM SPACING UNLESS NOTED OTHERWISE...

Table with 3 columns: STRUCTURAL STEEL, YIELD, ASTM SPECIFICATION. Rows include plates, channels, angles, and various steel shapes.

- STRUCTURAL STEEL SHALL MEET THE FOLLOWING MINIMUM YIELD STRENGTH AND SPECIFICATIONS... 1. STEEL JOISTS AND JOIST GIRDERS SHALL BE REPORTED PRIOR TO ADDING LOAD TO FRAMING...

- STEEL JOISTS AND JOIST GIRDERS 1. EXISTING STEEL JOISTS AND JOIST GIRDERS ARE ASSUMED TO BE IN GOOD CONDITION AND IN COMPLIANCE WITH THE STEEL JOIST INSTITUTE SPECIFICATIONS...

- STEEL ROOF DECK 1. ROOF DECK SHALL BE PAINTED TYPE 'B' (WIDE RIB) AS SHOWN ON THE STRUCTURAL PLAN OR DETAILS... 2. WHEN THE ROOF DECK IS WELDED, WELDING RODS SHALL BE E 6022...

- LIGHT GAUGE STEEL FRAMING 1. FOR 18 GAUGE AND LIGHTER FRAMING, CONNECTIONS SHALL BE MADE USING SELF-DRILLING, SELF-TAPPING SCREWS OR POWDER ACTUATED FASTENERS...

- MASONRY 1. CONCRETE MASONRY UNITS SHALL MEET ASTM SPECIFICATION C 90... 2. MORTAR SHALL BE A PREBLENDED DRY MIX CONFORMING TO ASTM C 1714...

- POST-INSTALLED ANCHORS 1. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS... 2. WHERE THE DRAWINGS INDICATE GROUT TO BE ADDED TO MASONRY WALLS...

- SUBGRADE AND BASE 1. PRIOR TO PLACEMENT OF SLABS IN SLAB REMOVAL AREAS, EXPOSED SUBGRADE SHALL BE COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY...

- EXISTING CONDITIONS SHOWN ON ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT 'AS-BUILT' CONDITIONS... EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS...

DESIGN LOADS

- 1. BUILDING CODE A. BUILDING CODE 2018 WASHINGTON STATE BUILDING CODE (ASCE 7-16)

- 2. GRAVITY LOADS A. ROOF DEAD LOAD 17.8 PSF (PER EXISTING DRAWINGS) B. ROOF LIVE LOADS 1. ROOF 20 PSF (MIN OR SNOW LOAD)

- C. ROOF SNOW LOADS 1. GROUND SNOW LOAD (Pg) 20 PSF 2. IMPORTANCE FACTOR (I) 1.0

- 3. LATERAL LOADS A. WIND LOADS 1. BASIC WIND SPEED (3-SECOND GUST) 97 MPH 2. WIND EXPOSURE CATEGORY C

- B. SEISMIC LOADS (SERVICE) 1. 5% DAMPED MAPPED ACCELERATION PARAMETER (Sa) 1.261 2. 1-SEC PERIOD MAPPED ACCELERATION PARAMETER (S1) 0.435

- 5. SITE CLASS 6. RISK CATEGORY 7. IMPORTANCE FACTOR (Ie) 1.0 8. SEISMIC DESIGN CATEGORY D 9. SEISMIC RESISTING SYSTEM SPECIAL REINFORCED MASONRY SHEAR WALLS

ABBREVIATIONS

- LLV LONG LEG VERTICAL LONGITUDINAL MAX MAXIMUM MECH MECHANICAL MFR MANUFACTURER MIN MINIMUM

ABBREVIATIONS

- AB ANCHOR BOLT ACI AMERICAN CONCRETE INSTITUTE AFF ABOVE FINISHED FLOOR AISI AMERICAN INSTITUTE OF STEEL CONSTRUCTION

FOUNDATION SUBSURFACE PREP NOTE

UNLESS SPECIFICALLY INDICATED OTHERWISE IN THE DRAWINGS AND/OR SPECIFICATIONS, THE LIMITS OF THIS SUBSURFACE PREPARATION ARE CONSIDERED TO BE THAT PORTION OF THE SITE DIRECTLY BENEATH AND 5 FEET BEYOND THE BUILDING AND APPURTENANCES.

EXISTING FOUNDATIONS, SLABS, PAVEMENTS, AND BELOW-GRADE STRUCTURES SHALL BE REMOVED FROM THE BUILDING AREA. REMOVE SURFACE VEGETATIONS, TOPSOIL, ROOT SYSTEMS, ORGANIC MATERIAL, EXISTING FILL, AND SOFT OR OTHERWISE UNSATISFACTORY MATERIAL FROM THE BUILDING AREA.

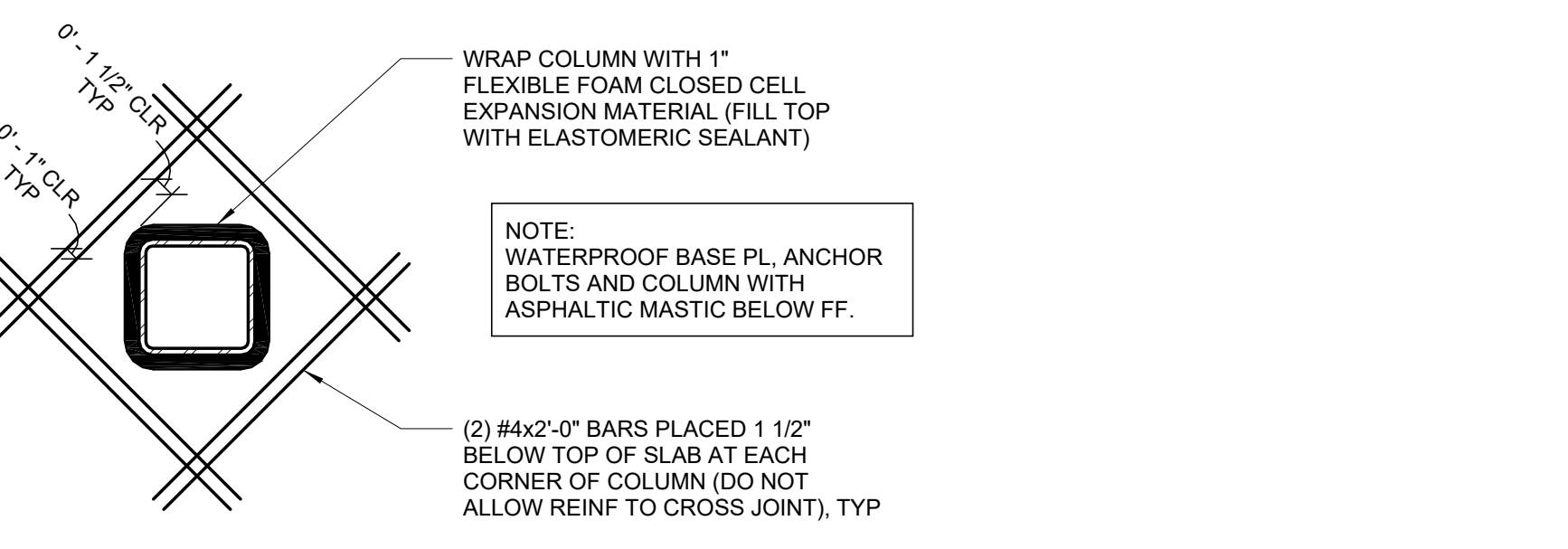
THE SITE SHALL BE STRIPPED OF EXISTING PAVEMENT AND PROOF ROLLED FOR EXCESSIVE SOFT SPOTS. THE STRUCTURAL FILL MAY HAVE TO BE IMPORTED AND SHALL MEET THE STRUCTURAL FILL GRADATIONS AS DESCRIBED IN SECTION 3.4 OF THIS REPORT.

THE FOUNDATION SYSTEM SHALL BE ISOLATED SPREAD FOOTINGS AT COLUMNS AND CONTINUOUS SPREAD FOOTINGS AT WALLS.

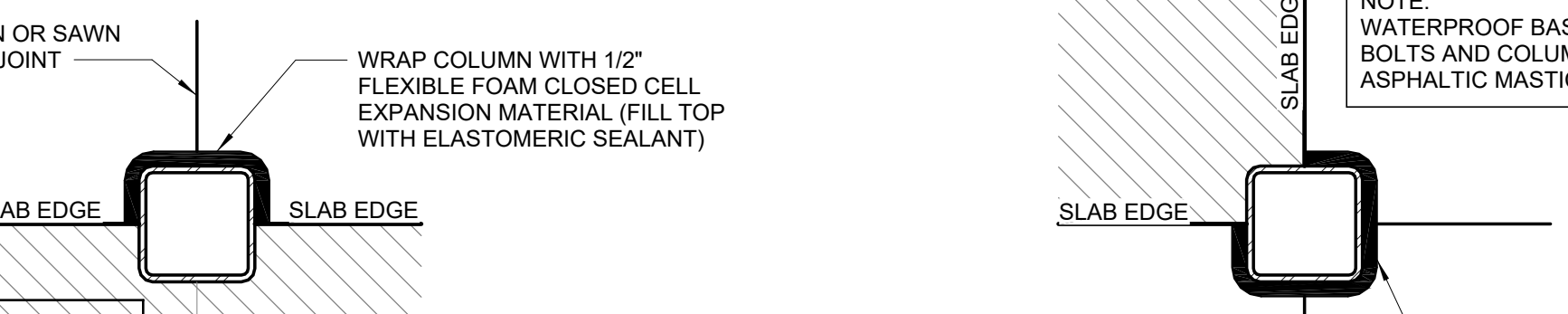
THIS FOUNDATION SUBSURFACE PREPARATION DOES NOT CONSTITUTE A COMPLETE SITE WORK SPECIFICATION. IN CASE OF CONFLICT, INFORMATION COVERED IN THIS PREPARATION SHALL TAKE PRECEDENCE OVER THE W.A. MART SPECIFICATIONS.

STEEL REINF LAP SCHEDULE

Table with 4 main columns for concrete lap splice (Class B) (in) for f'c = 3,000psi, 4,000psi, 4,500psi, 5,000psi. Includes CMU Lap Splice column.



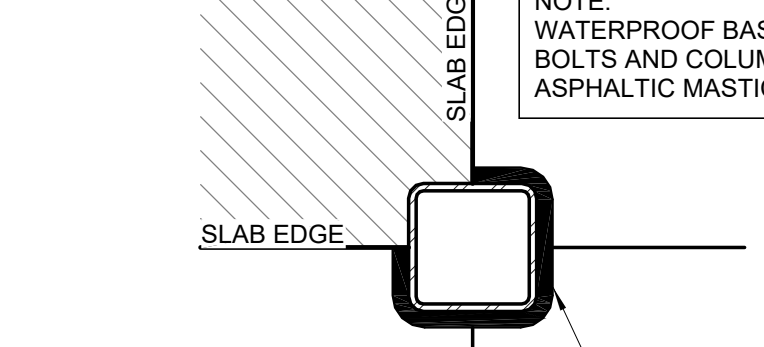
5E - NO JOINT INTERSECTION



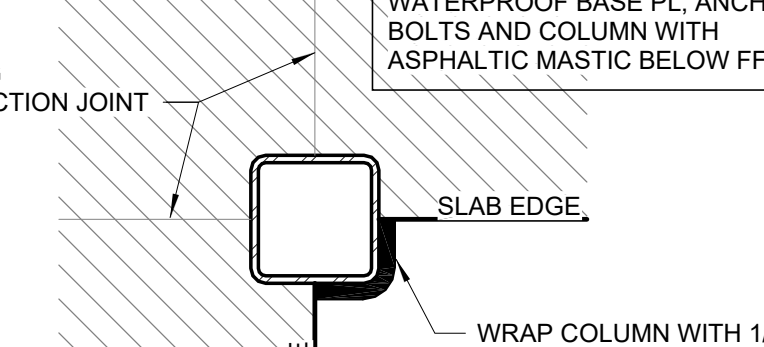
5C - TWO CORNERS EXPOSED



5A - STANDARD COLUMN



5D - THREE CORNERS EXPOSED



5B - ONE CORNER EXPOSED

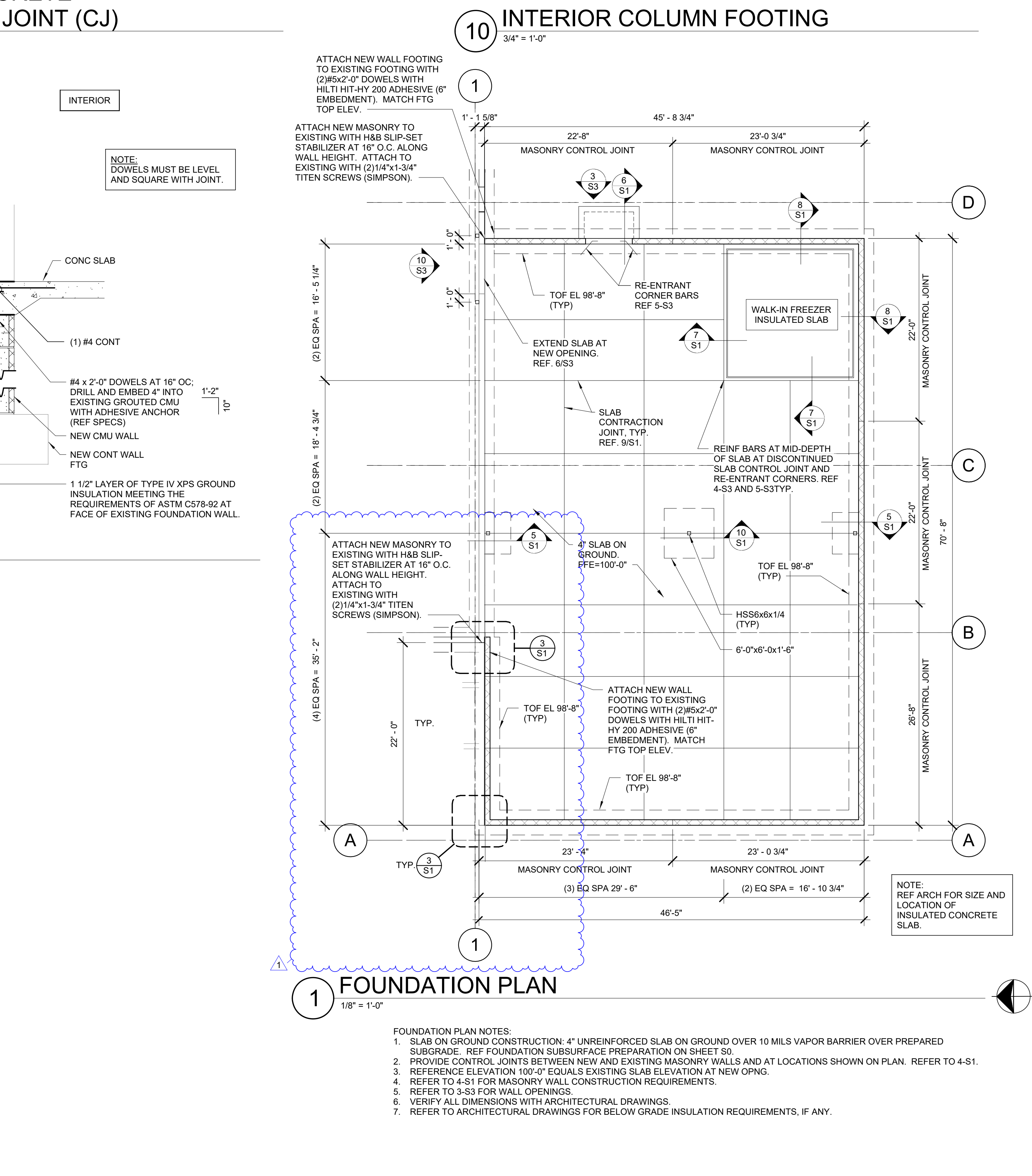
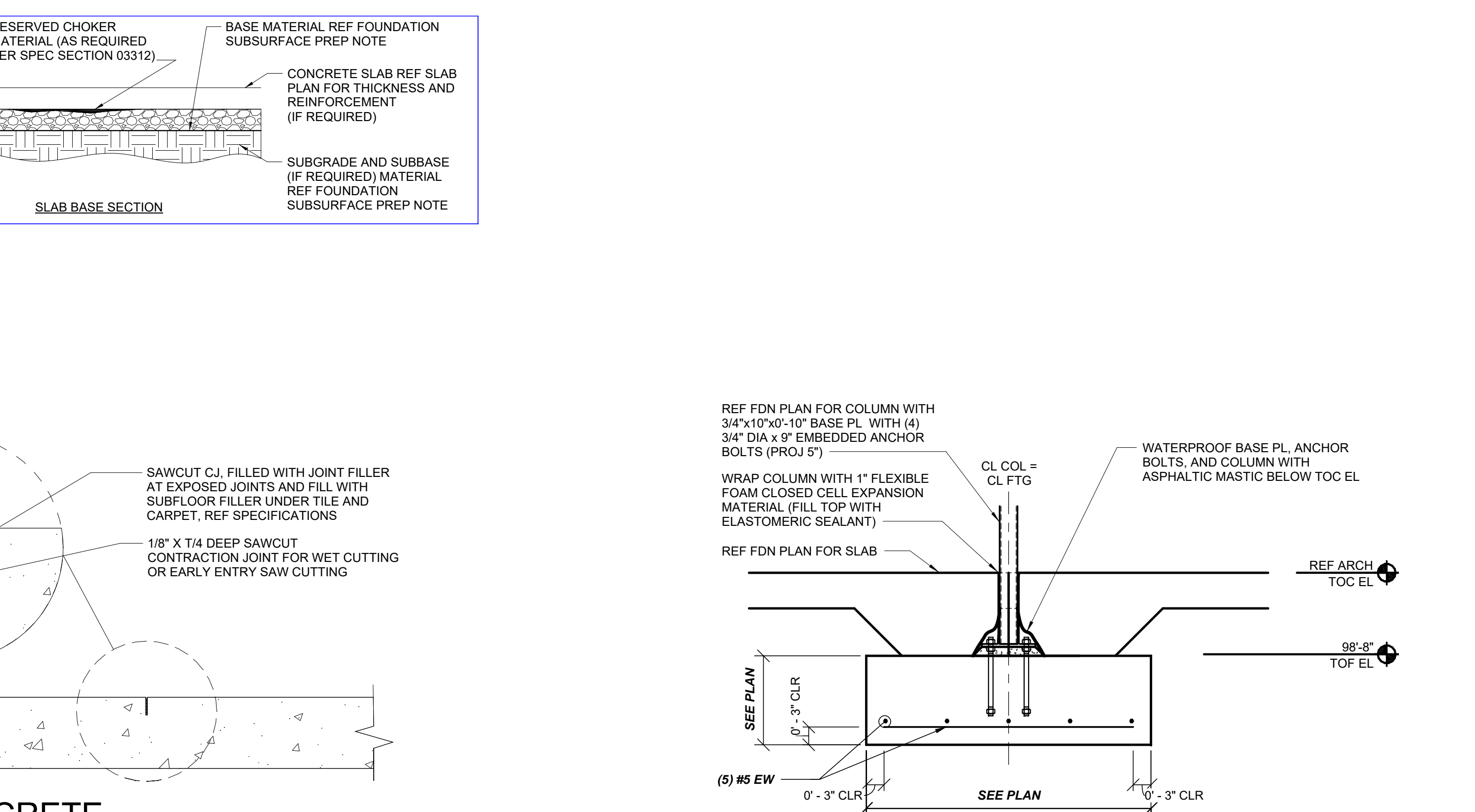
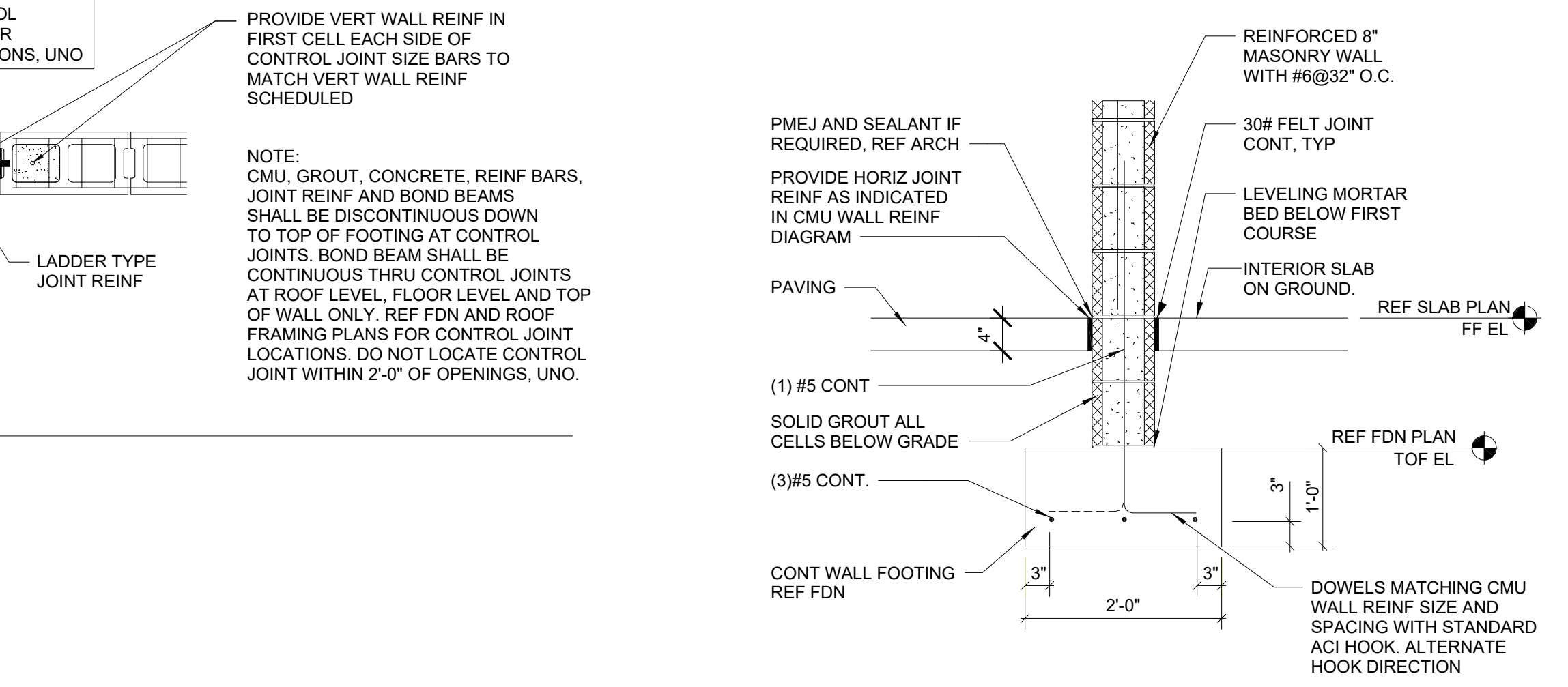
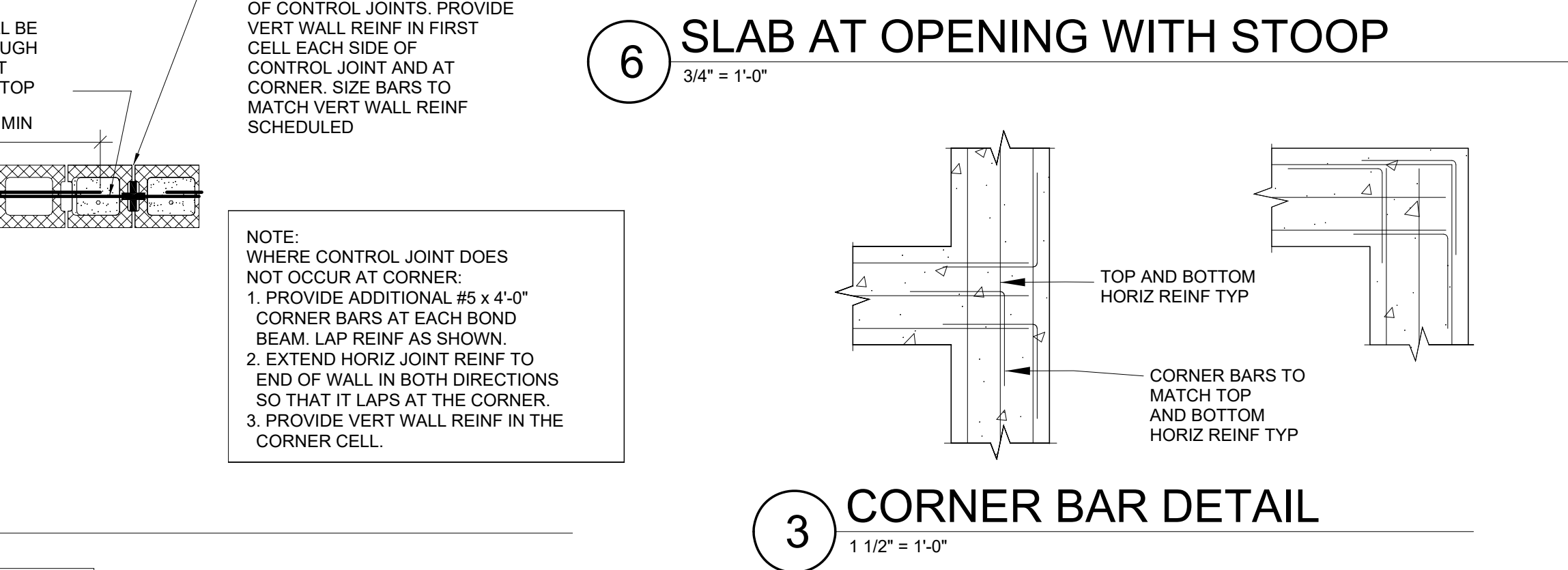
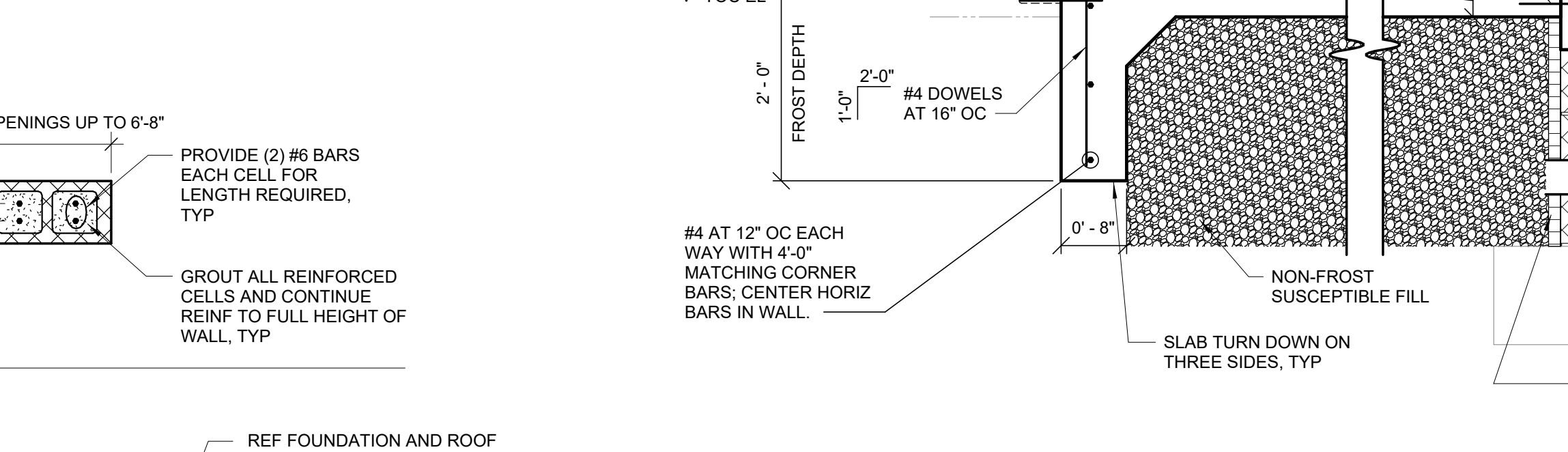
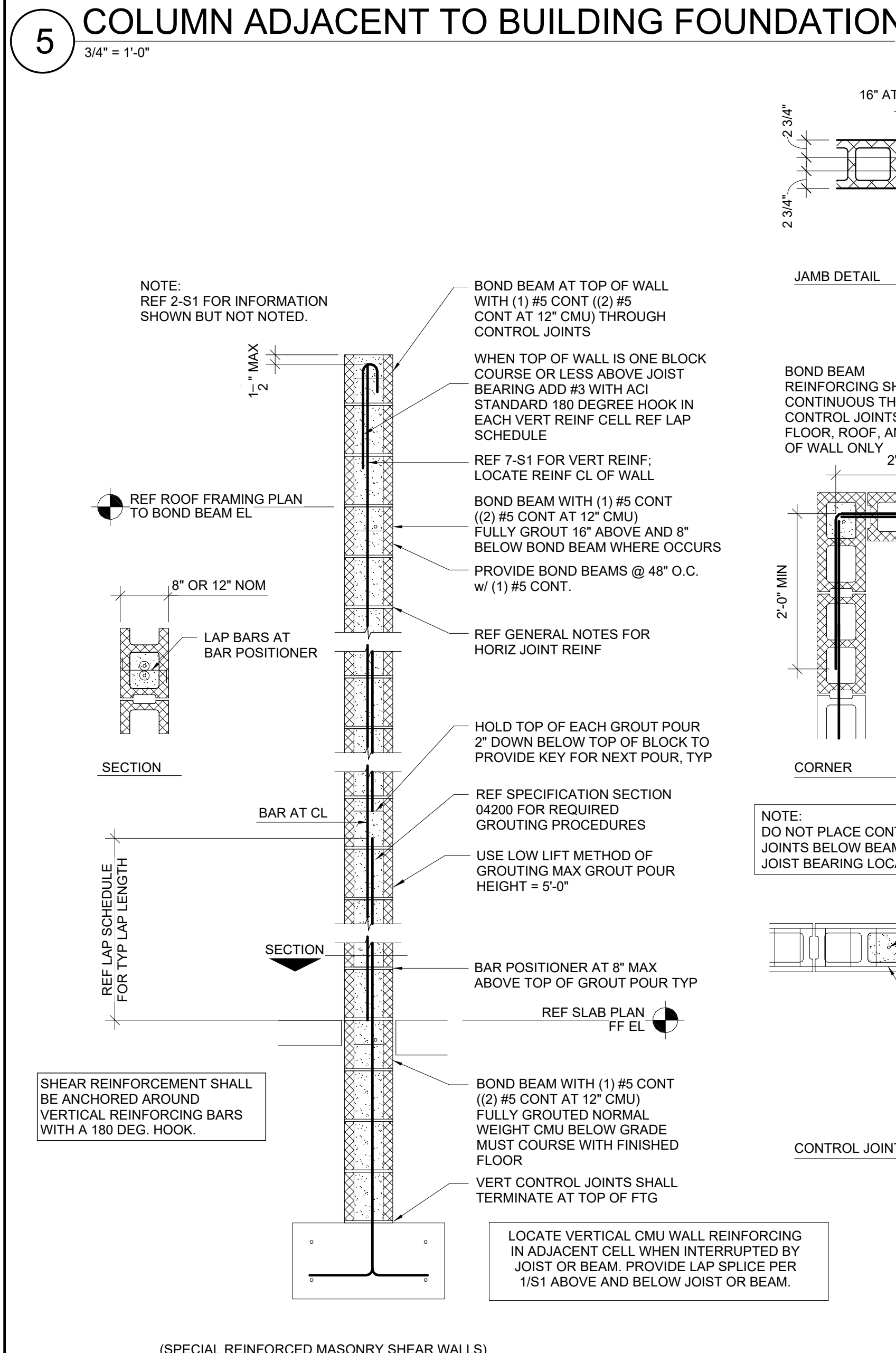
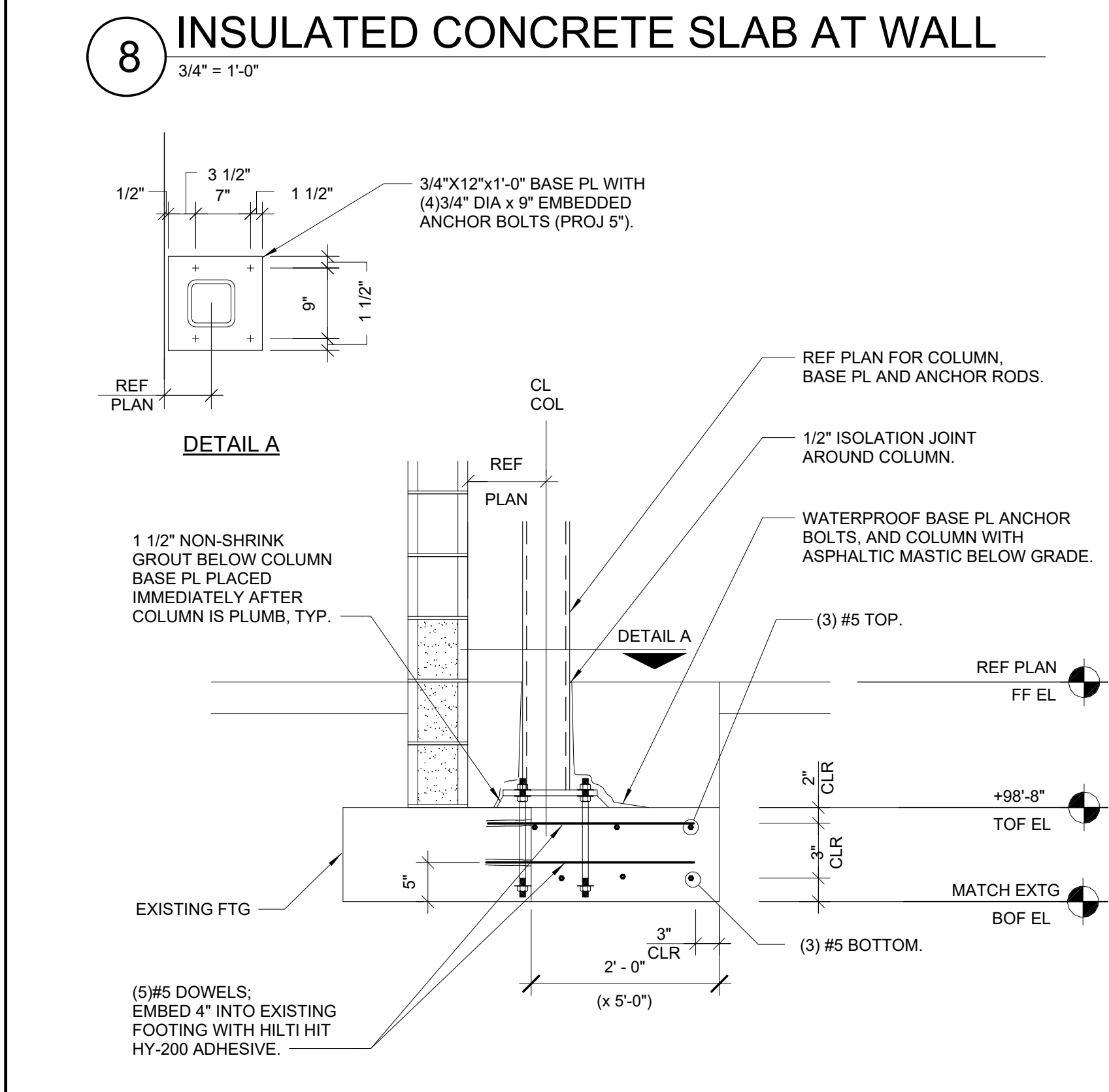
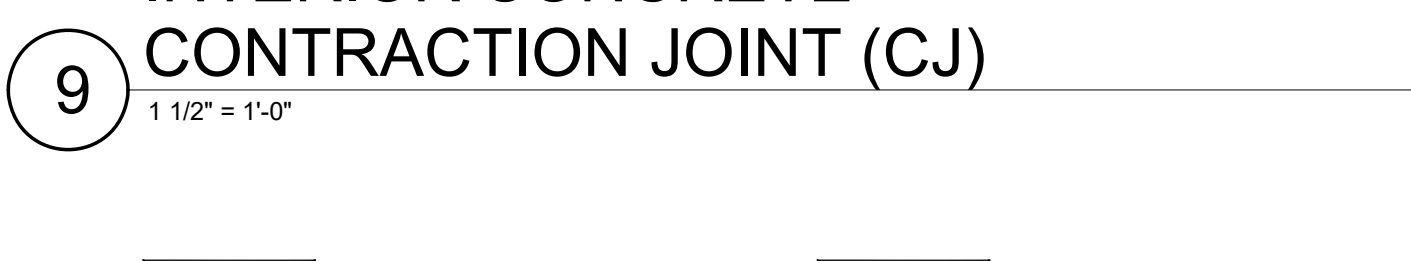
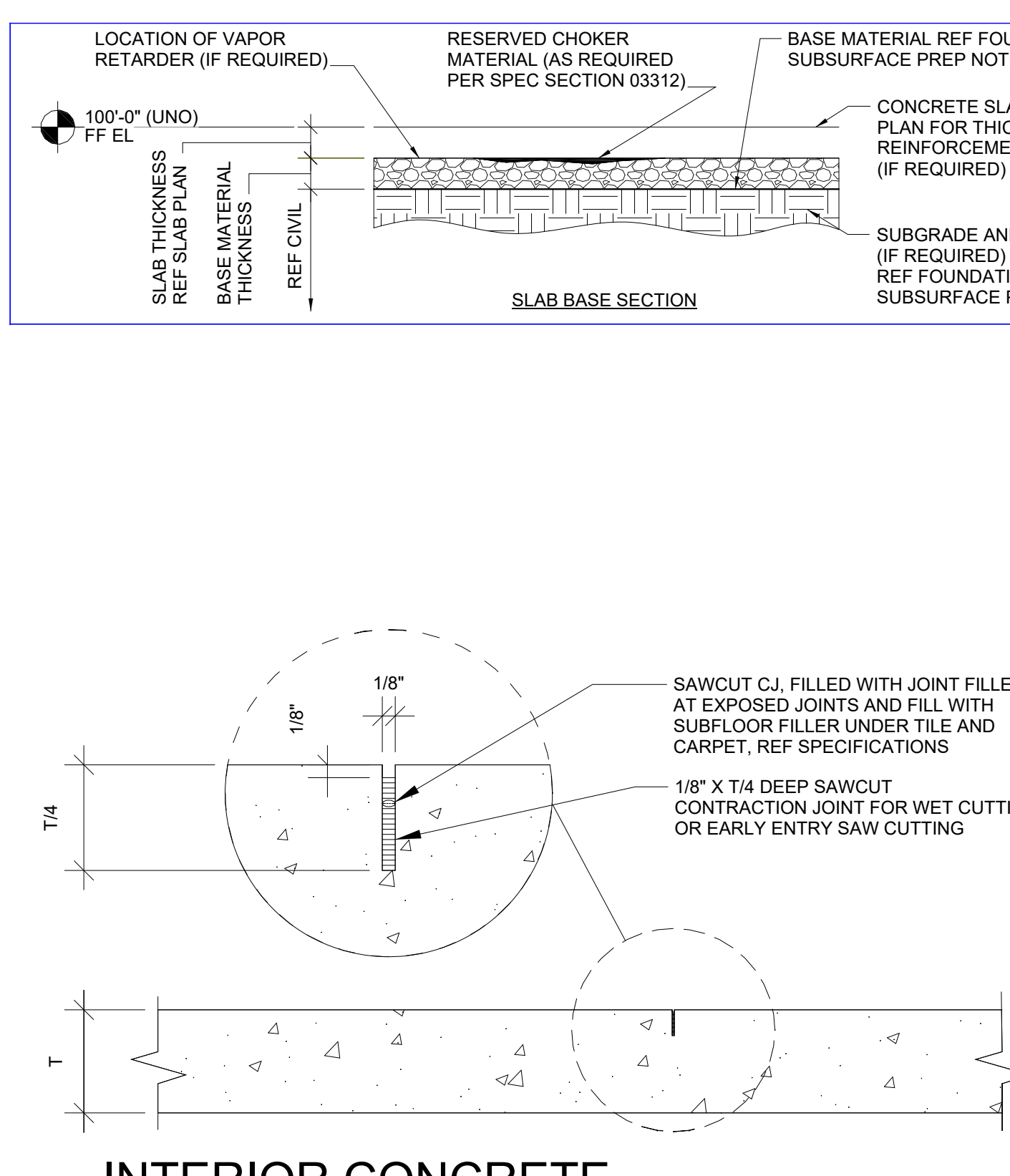
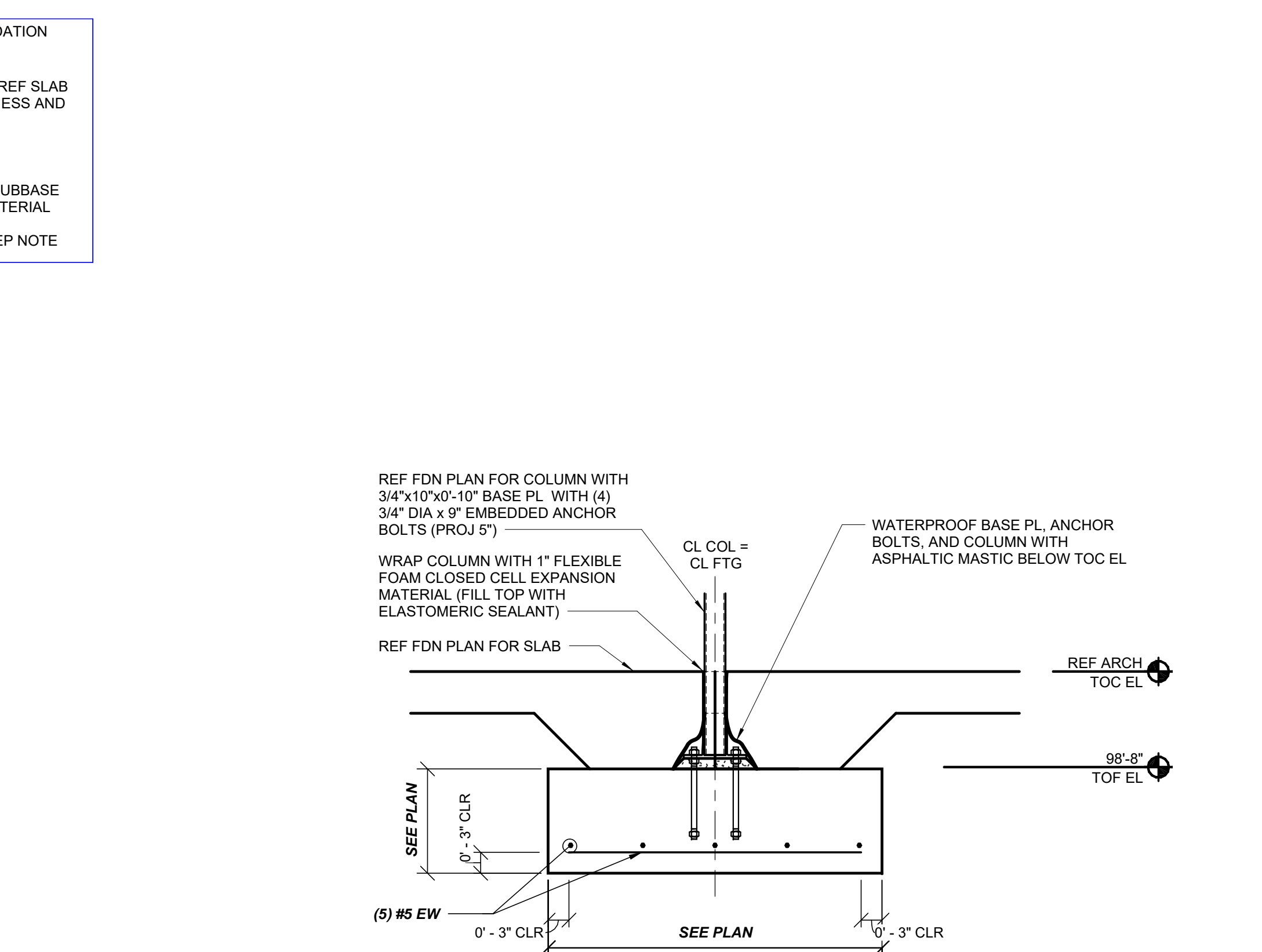
NOTE TO BIDDERS EXISTING CONDITIONS MAY NOT REFLECT EXACT 'AS-BUILT' CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS.

STATEMENT OF SPECIAL INSPECTIONS SPECIAL INSPECTIONS ARE REQUIRED. REFER TO APPENDIX B OF THE PROJECT SPECIFICATIONS FOR THE FOLLOWING INFORMATION REGARDING THE REQUIREMENTS OF SPECIAL INSPECTIONS:

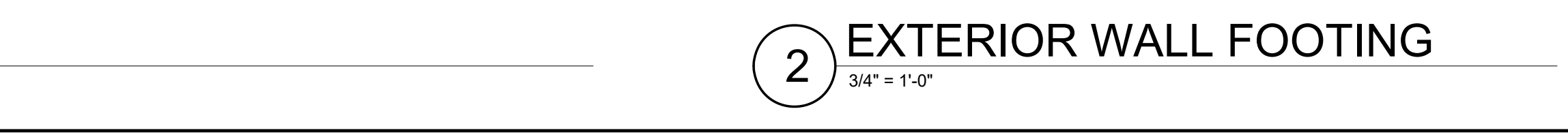
- 1. THE MATERIALS, SYSTEMS, COMPONENTS AND WORK REQUIRED TO HAVE SPECIAL INSPECTIONS. 2. THE TYPE AND EXTENT OF EACH SPECIAL INSPECTION. 3. THE TYPE AND EXTENT OF EACH TEST.

- SPECIAL INSPECTIONS REQUIRED FOR THIS PROJECT INCLUDE: - STEEL CONSTRUCTION (1705.2) - CONCRETE CONSTRUCTION (1705.3) - MASONRY CONSTRUCTION (1705.4) - SOILS (1705.6) - POST-INSTALLED ANCHORS (PER MANUF RESEARCH REPORTS)





- FOUNDATION PLAN NOTES:**
- SLAB ON GROUND CONSTRUCTION: 4\"/>

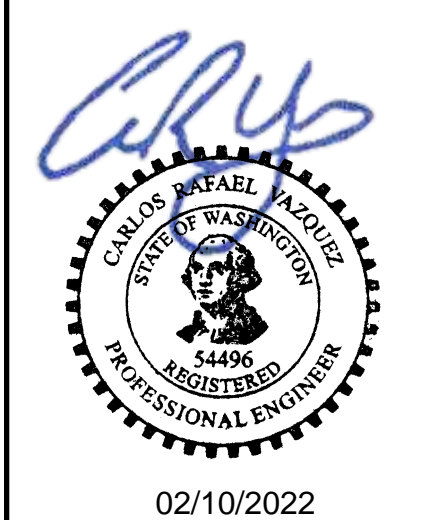


STIPULATION FOR REUSE  
 THIS DRAWING HAS BEEN PREPARED FOR THE PROJECT AND SITE SPECIFIC CONDITIONS ONLY. IT IS THE USER'S RESPONSIBILITY TO VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

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1	PR#1	01/25/22

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 PROTO CYCLE: 07/30/21  
 DOCUMENT DATE: 09/08/21



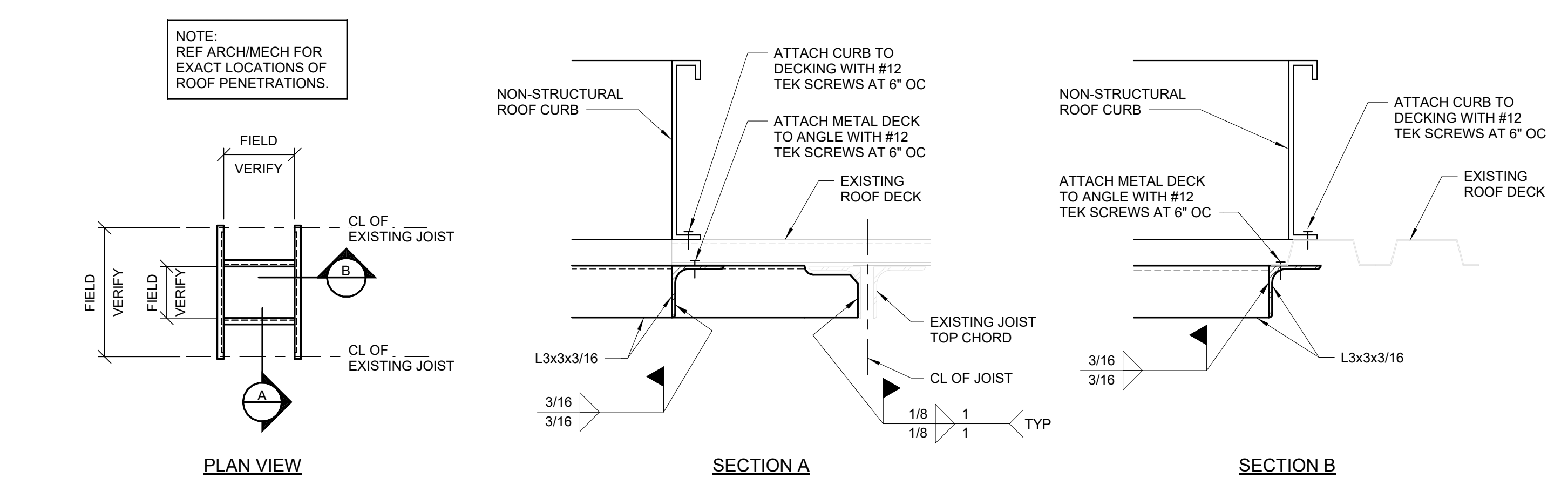
02/10/2022

DOCUMENTS THAT DO NOT HAVE THE ARCHITECT OR ENGINEER OF RECORD SEAL AND SIGNATURE SHALL BE CONSIDERED NOT FOR CONSTRUCTION

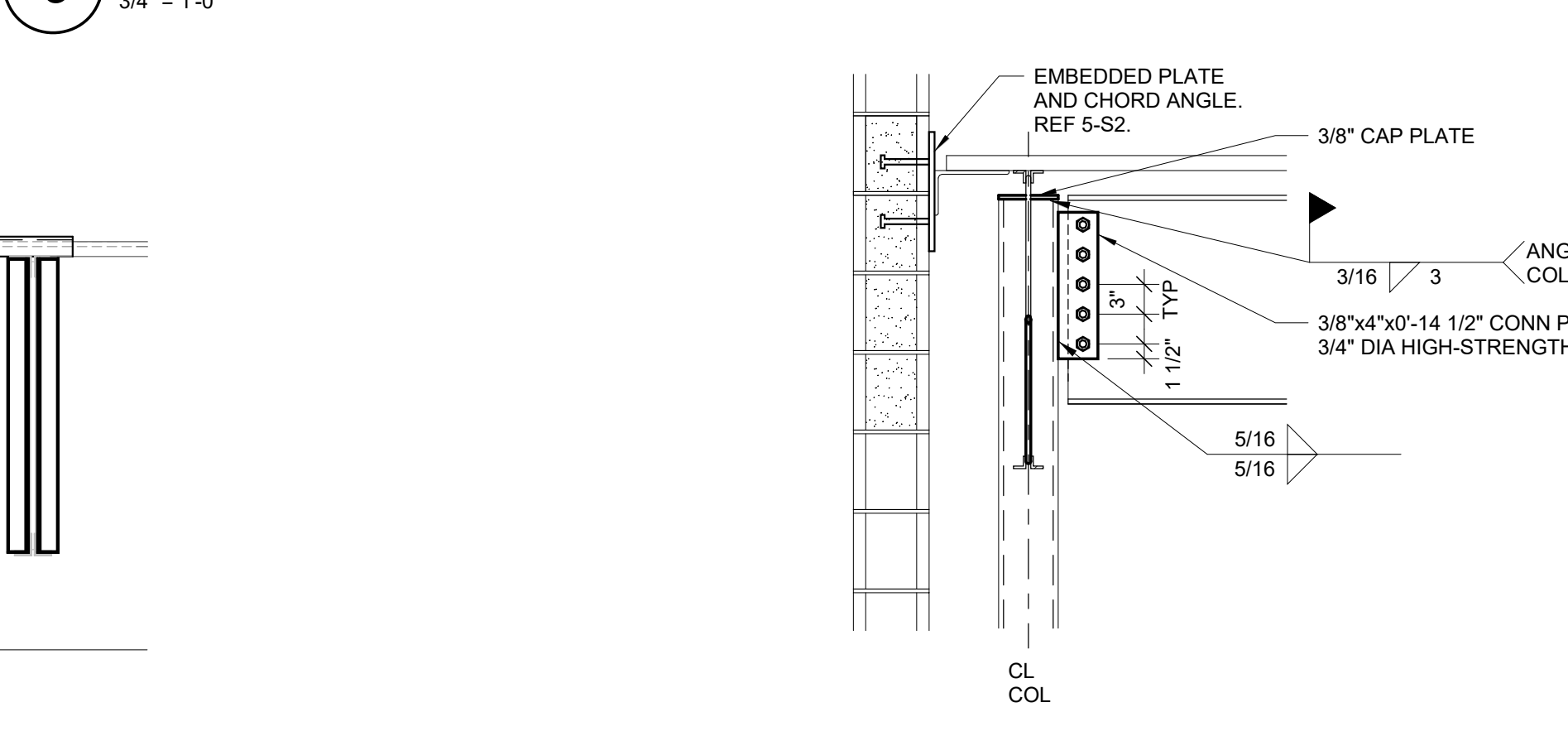
**ROOF FRAMING PLAN AND DETAILS**

SHEET: **S2**

### 10 OPENING IN ROOF LARGER THAN 10"x10"

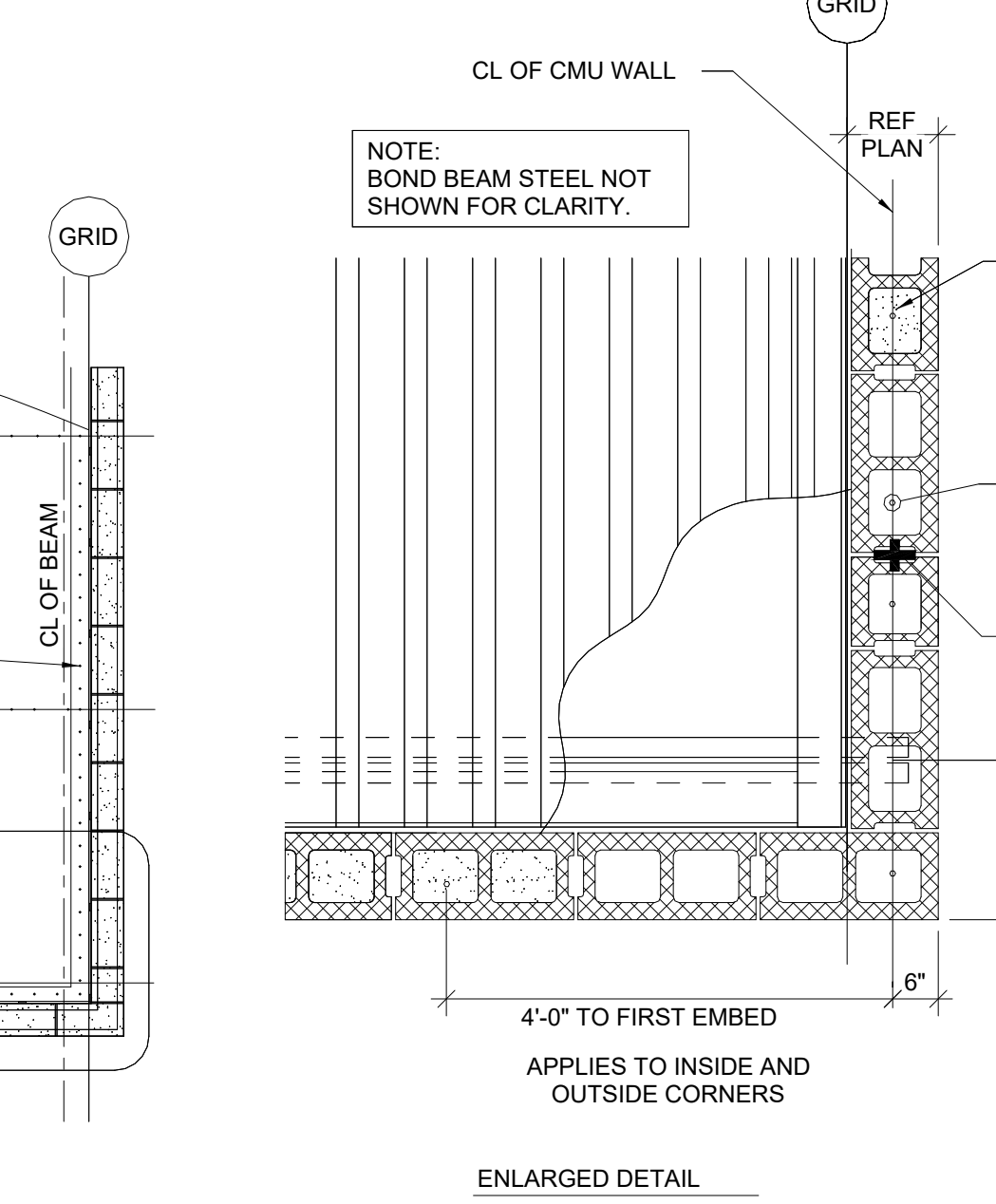


### 9 JOIST REINFORCING AT CONCENTRATED LOAD



### 8 RCU ROOF CURB SUPPORT

3/4" = 1'-0"



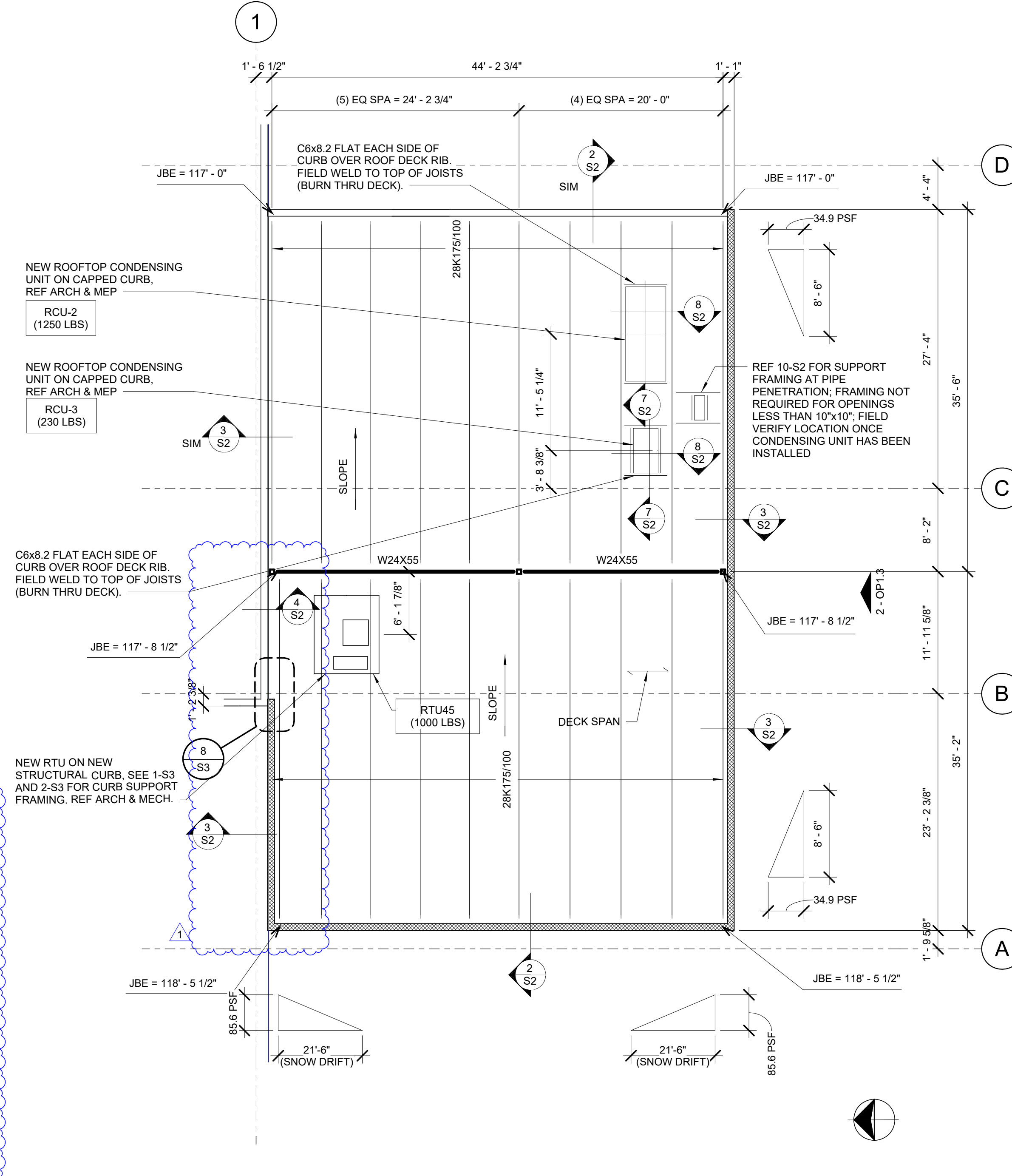
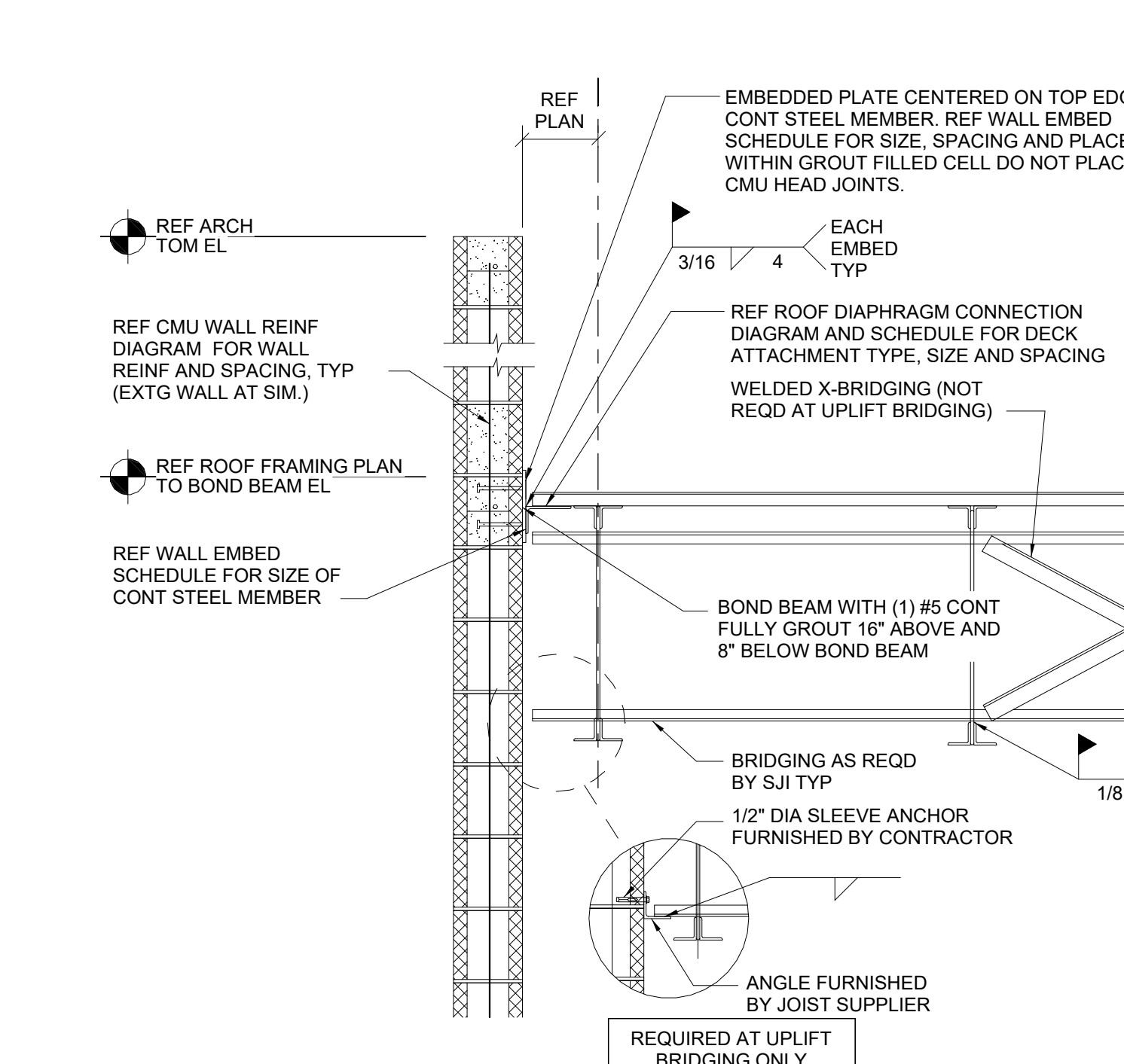
### 7 RCU CURB SUPPORT

3/4" = 1'-0"



### 4 COLUMN ADJACENT TO BUILDING WALL

3/4" = 1'-0"



### 1 ROOF FRAMING PLAN

1/8" = 1'-0"

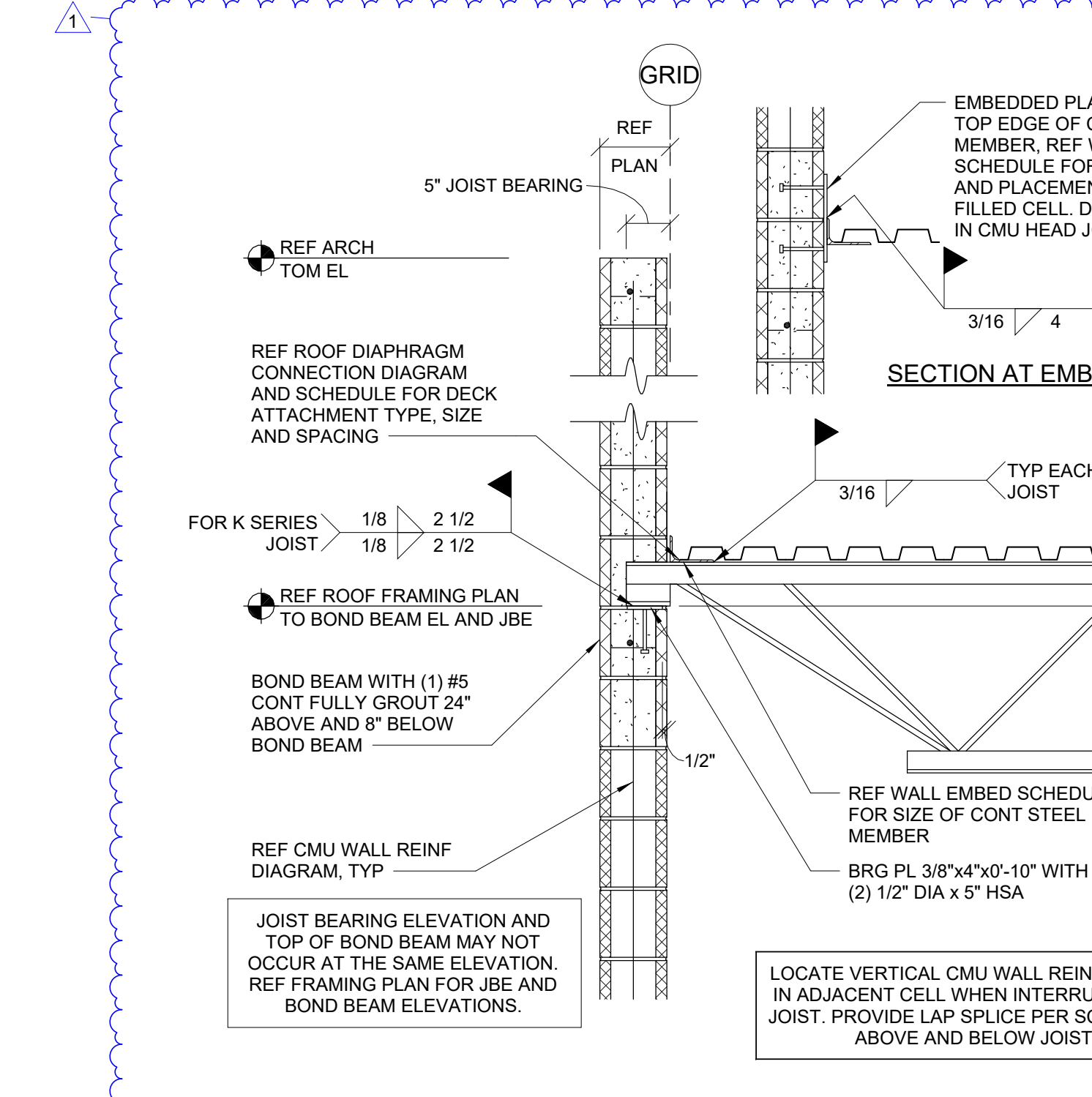
ROOF FRAMING PLAN NOTES:  
 1. ROOF CONSTRUCTION: 1-1/2"x20 GA WIDE RIB (TYPE B) STEEL DECK OVER OPEN WEB STEEL JOISTS. REFER TO 6-S2 FOR ATTACHMENT.  
 2. STEEL JOIST MANUFACTURER SHALL PROVIDE TOP AND BOTTOM CHORD BRIDGING COMPLYING WITH STEEL JOIST INSTITUTE SPECIFICATIONS.  
 3. JOIST LIVE LOAD DEFLECTION LIMIT IS L/240.  
 4. PROVIDE 2 1/2" JOISTS SEATS AT ALL JOISTS UNLESS NOTED.  
 5. STEEL JOIST DESIGNATIONS GIVE THE TOTAL DEPTH AND SERIES FOLLOWED BY THE TOTAL UNIFORM LOAD (PLF)/UNIFORM LIVE (OR SNOW) LOAD (PLF). THESE UNIFORM LOADS DO NOT INCLUDE THE EFFECTS OF WIND PRESSURES. THE JOIST MANUFACTURER SHALL DESIGN THE JOISTS FOR THESE UNIFORM LOADS, AND FOR THE NON-UNIFORM, CONCENTRATED, AND/OR AXIAL LOADS PROVIDED ON THE DRAWINGS.  
 6. THE NET UPLIFT WIND DESIGN PRESSURE SHALL BE 24.5 PSF (ULTIMATE).  
 7. ALL WORK BY GENERAL CONTRACTOR UNLESS NOTED.

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT AS-BUILT CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELVES WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

### 3 SIDE WALL SECTION

3/4" = 1'-0"



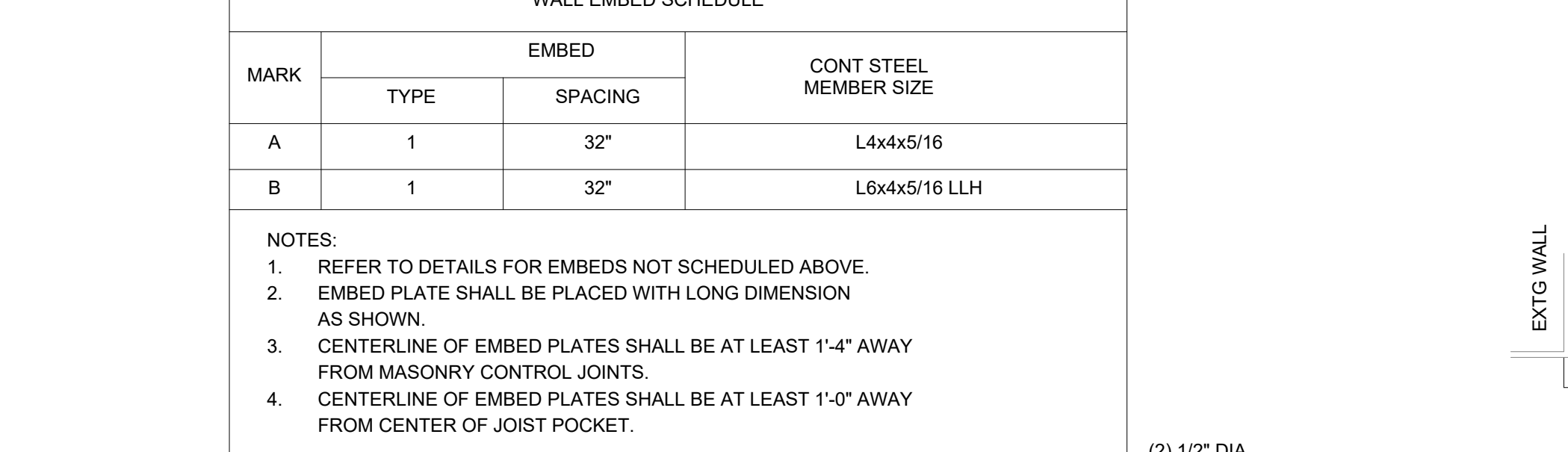
### 2 FRONT WALL SECTION

3/4" = 1'-0"



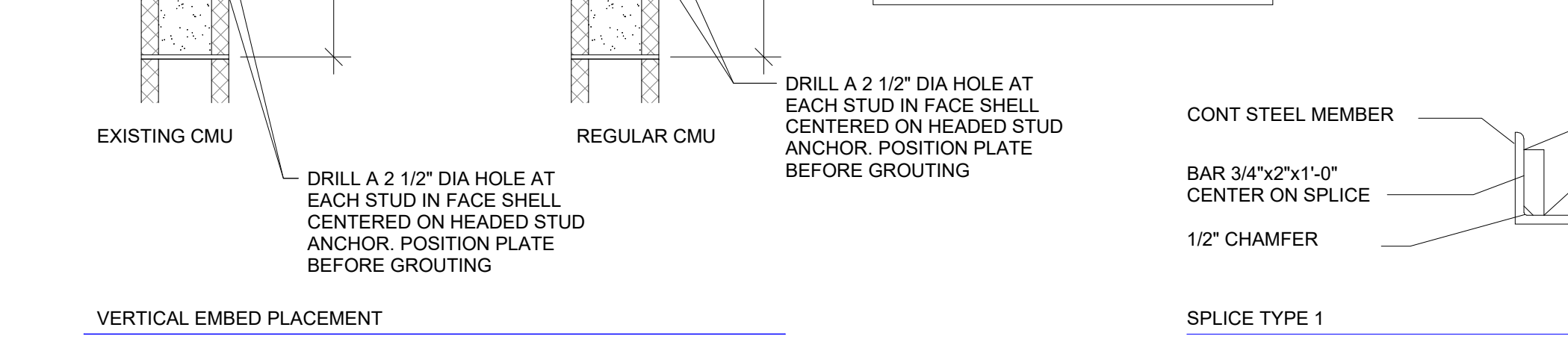
### 6 ROOF DIAPHRAGM CONNECTION DIAGRAM AND SCHEDULE

3/4" = 1'-0"



WALL EMBED SCHEDULE			
MARK	EMBED TYPE	EMBED SPACING	CONT STEEL MEMBER SIZE
A	1	32"	L4x4x5/16
B	1	32"	L6x4x5/16 LLH

NOTES:  
 1. REFER TO DETAILS FOR EMBEDS NOT SCHEDULED ABOVE.  
 2. EMBED PLATE SHALL BE PLACED WITH LONG DIMENSION AS SHOWN.  
 3. CENTERLINE OF EMBED PLATES SHALL BE AT LEAST 1'-4" AWAY FROM MASONRY CONTROL JOINTS.  
 4. CENTERLINE OF EMBED PLATES SHALL BE AT LEAST 1'-0" AWAY FROM CENTER OF JOIST POCKET.



### 5 WALL EMBED SCHEDULE AND DETAILS

1" = 100'-0"



STIPULATION FOR REUSE  
 THIS DRAWING WAS PREPARED FOR THE PROJECT IDENTIFIED BY THE PROJECT NUMBER AND TITLE. IT IS TO BE USED ONLY FOR THE PROJECT IDENTIFIED. ANY REUSE OF THIS DRAWING FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF WDPARTNERS IS STRICTLY PROHIBITED. WDPARTNERS SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS IN THIS DRAWING. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL INFORMATION AND CONDITIONS. WDPARTNERS SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO PERSONS OR PROPERTY ARISING FROM THE USE OF THIS DRAWING.

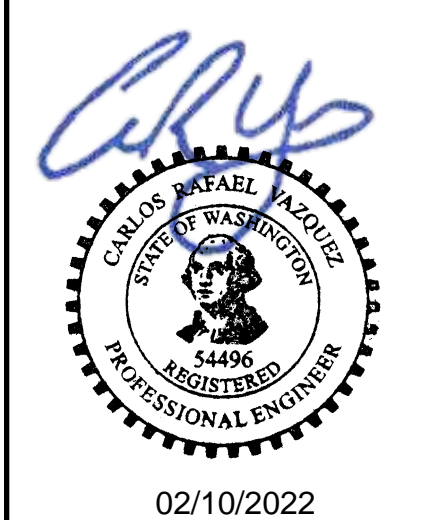
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1	PR#1	01/25/22

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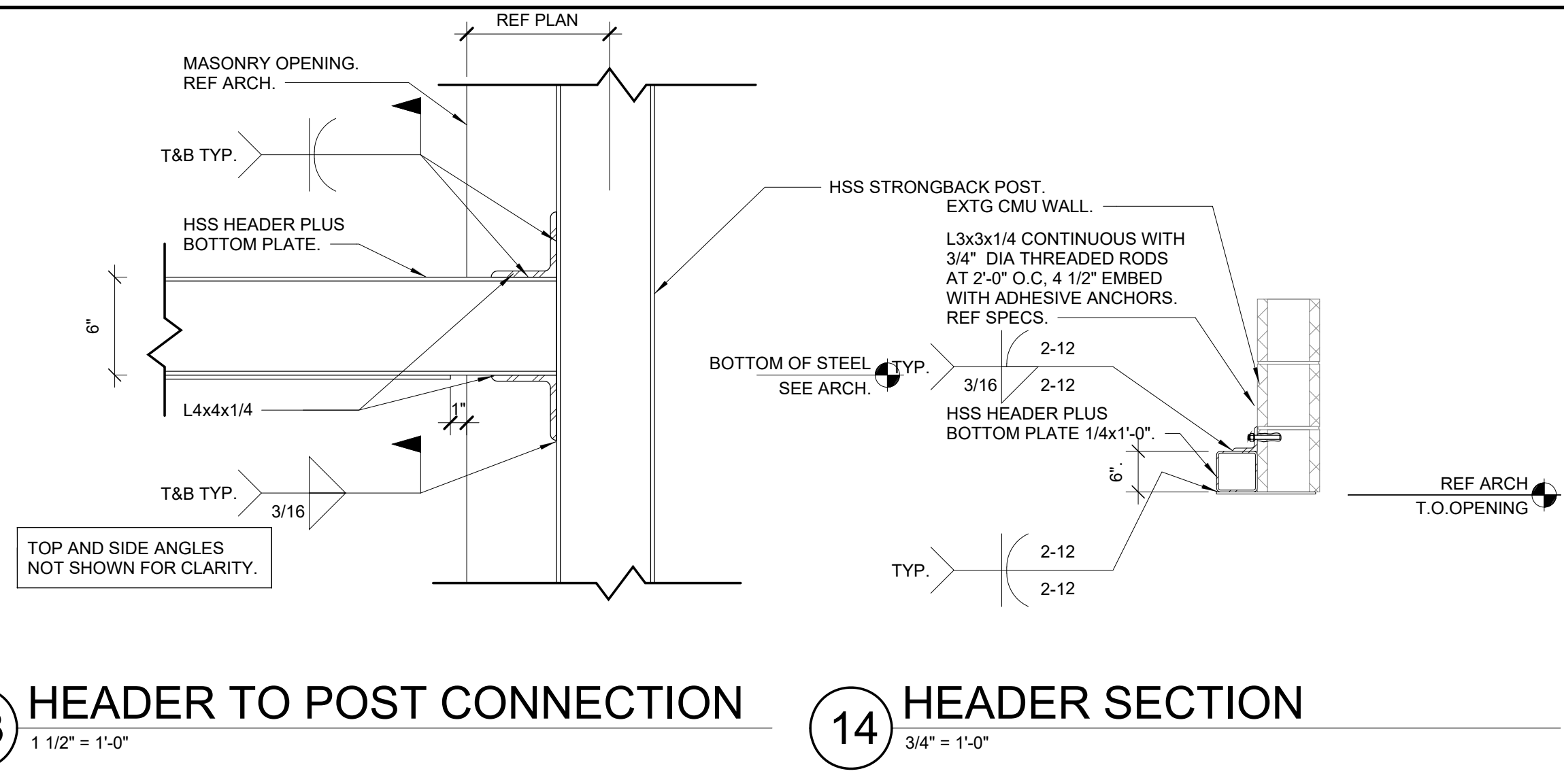


02/10/2022

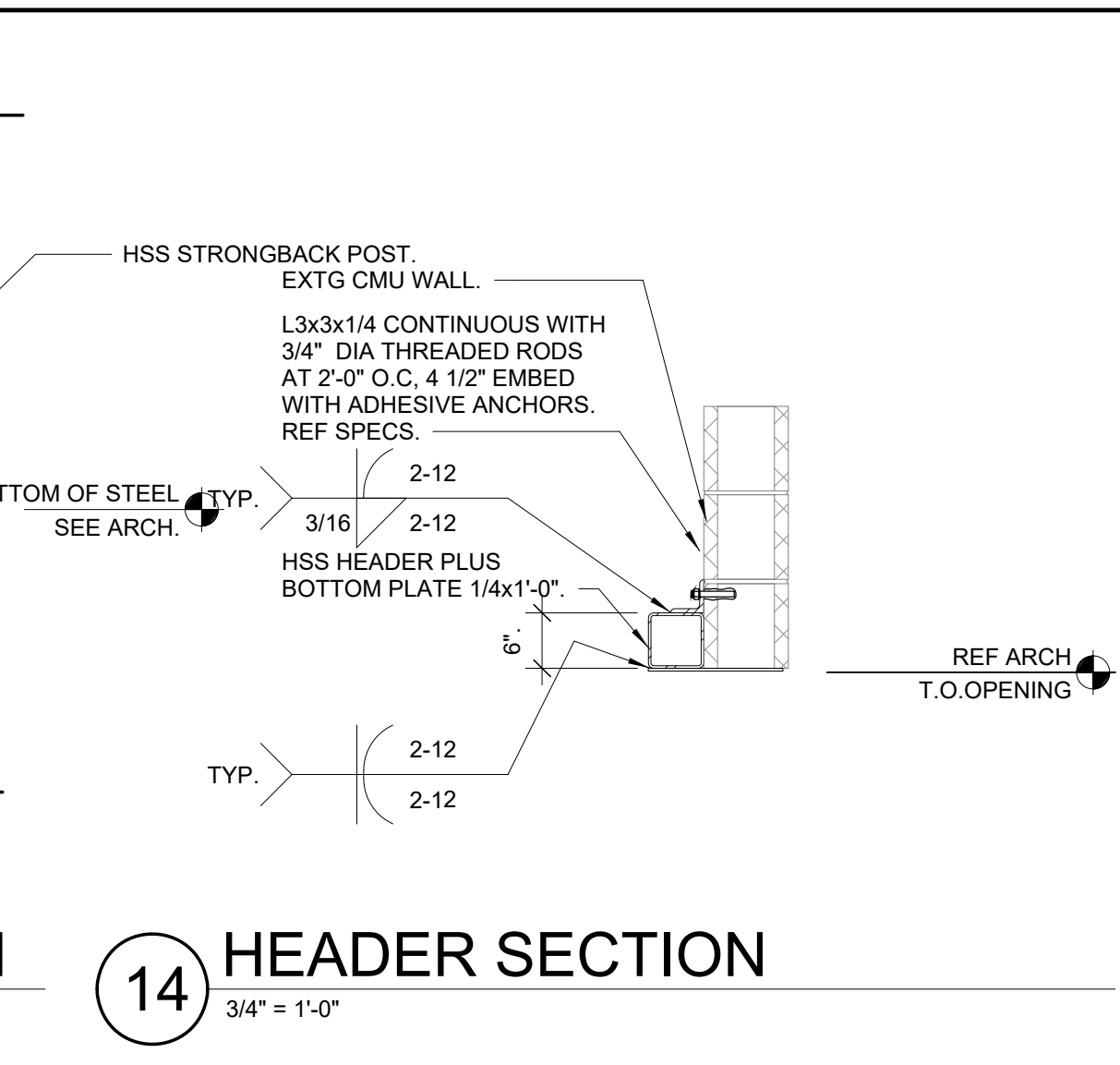
DOCUMENTS THAT DO NOT HAVE THE ARCHITECT OR ENGINEER OF RECORD SEAL AND SIGNATURE SHALL BE CONSIDERED NOT FOR CONSTRUCTION

STRUCTURAL DETAILS

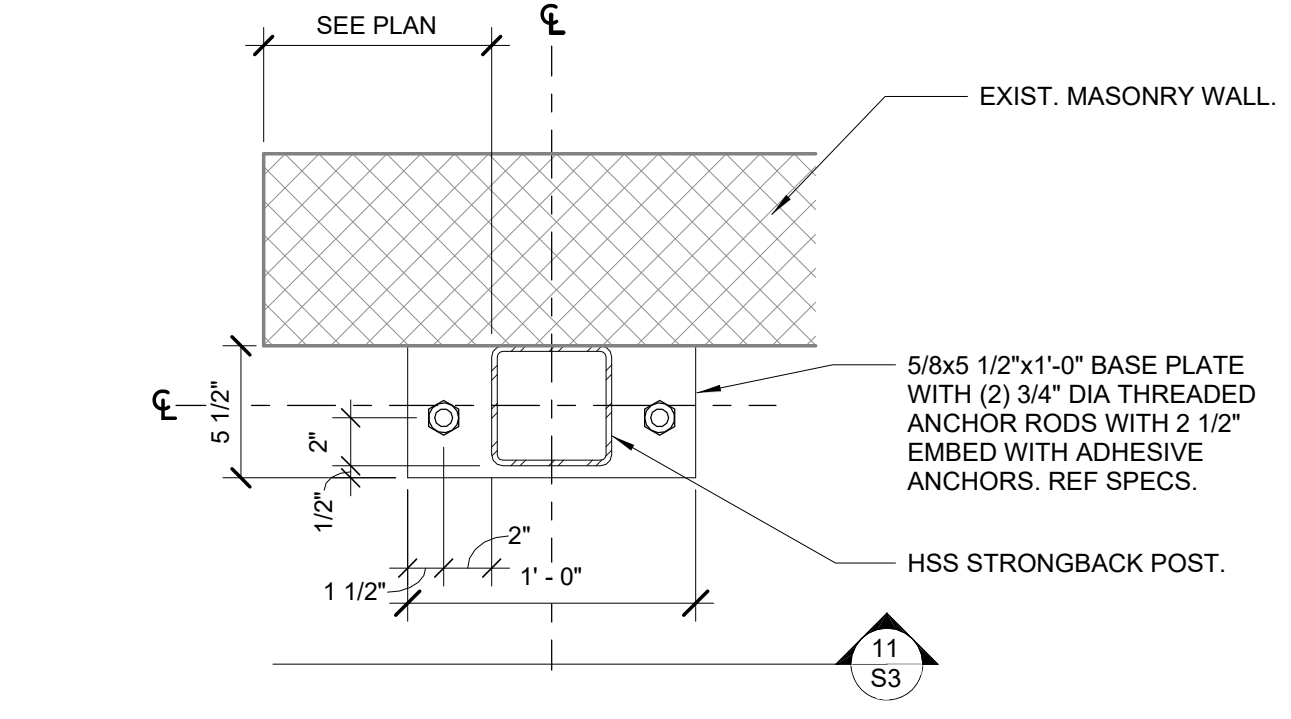
SHEET: S3



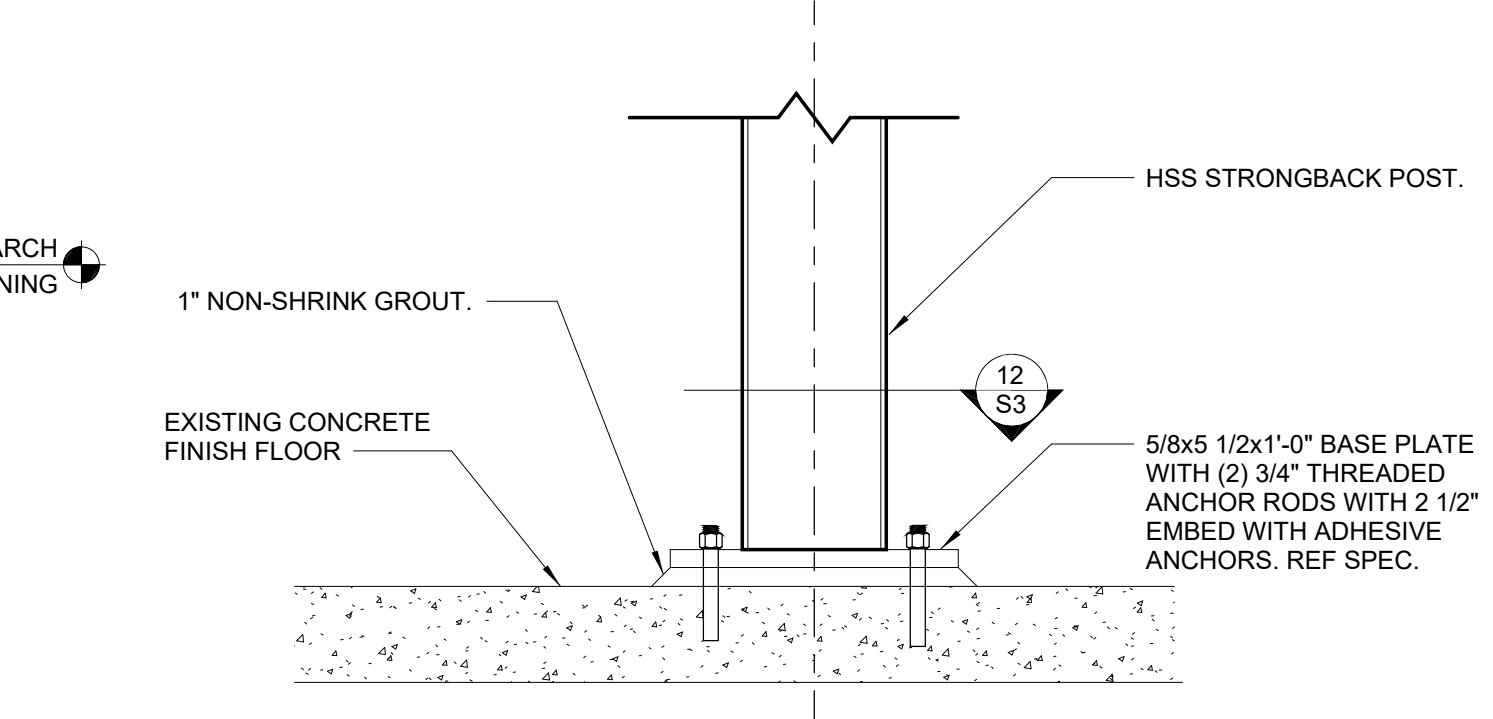
13 HEADER TO POST CONNECTION  
 1 1/2" = 1'-0"



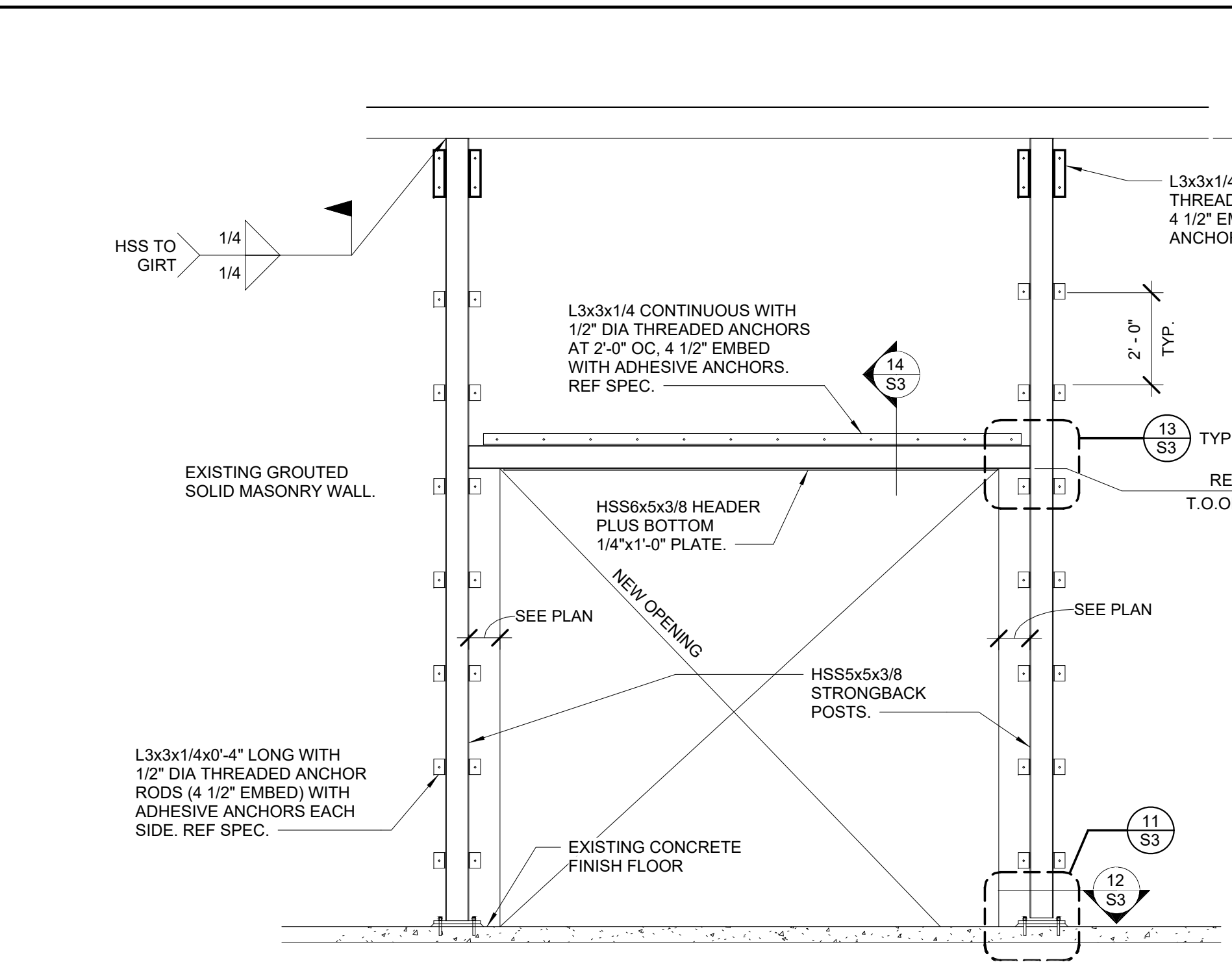
14 HEADER SECTION  
 3/4" = 1'-0"



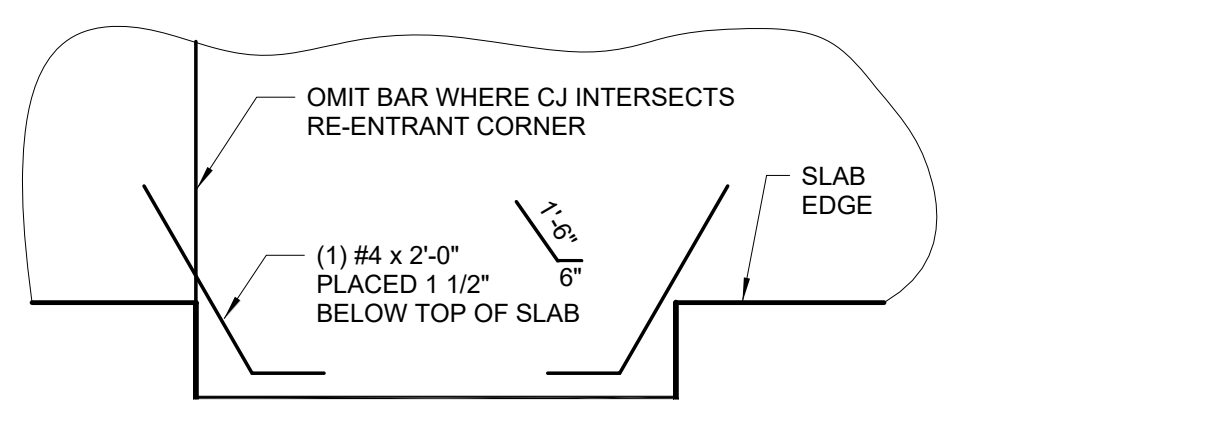
12 BASE PLATE  
 1 1/2" = 1'-0"



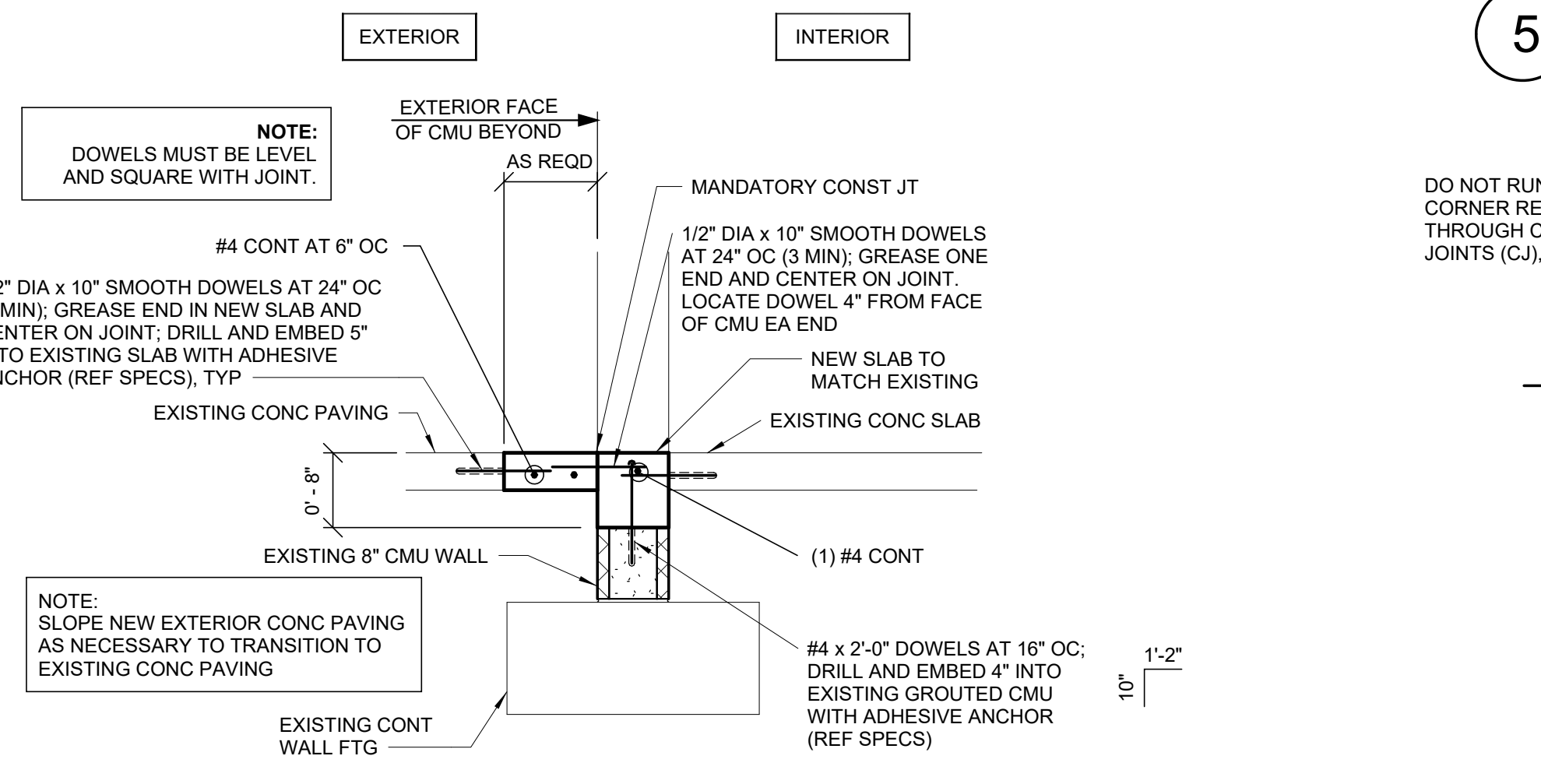
11 OPENING FRAME BASE PLATE  
 1 1/2" = 1'-0"



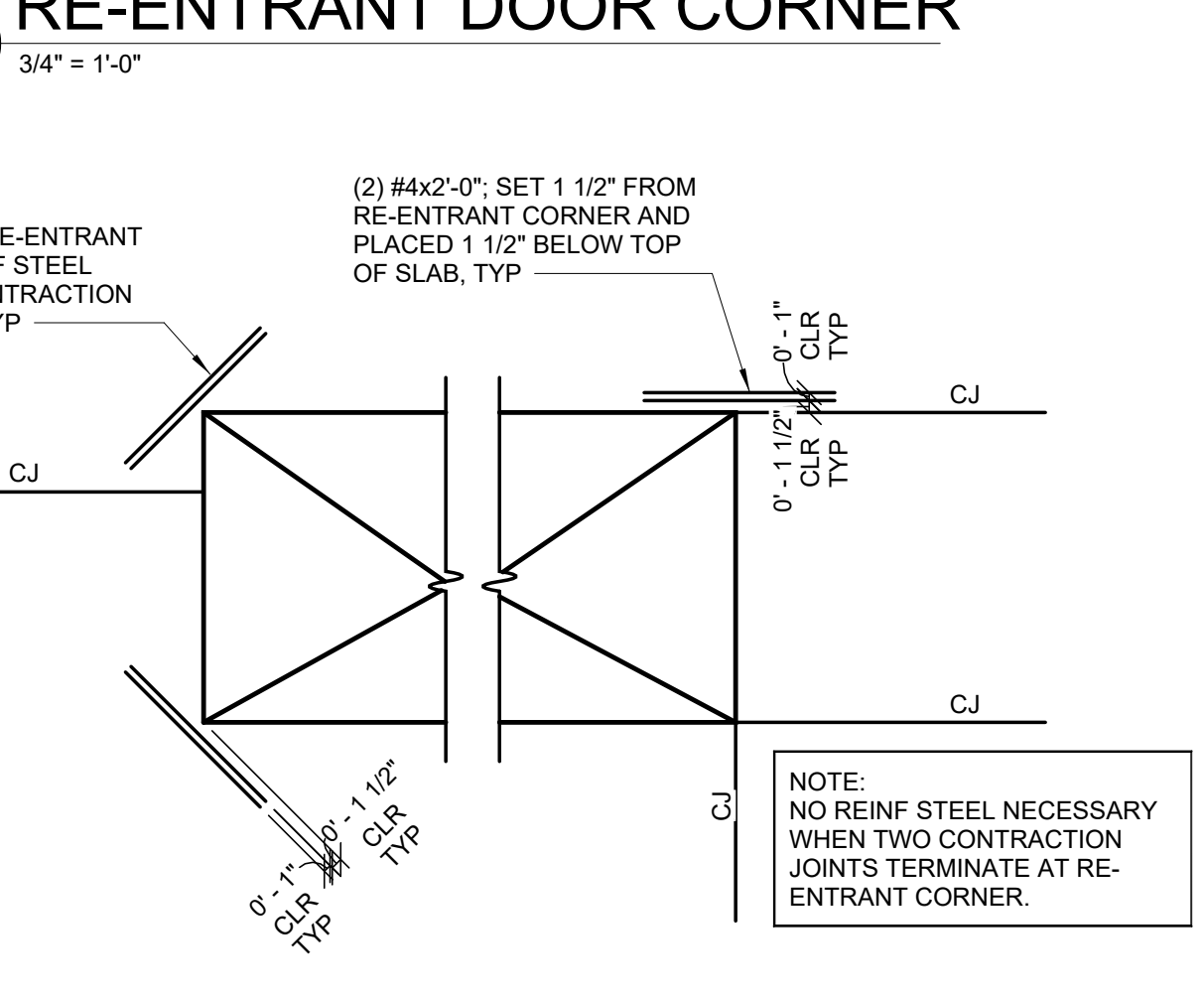
10 DOOR OPENING STRONGBACK ELEVATION  
 3/8" = 1'-0"



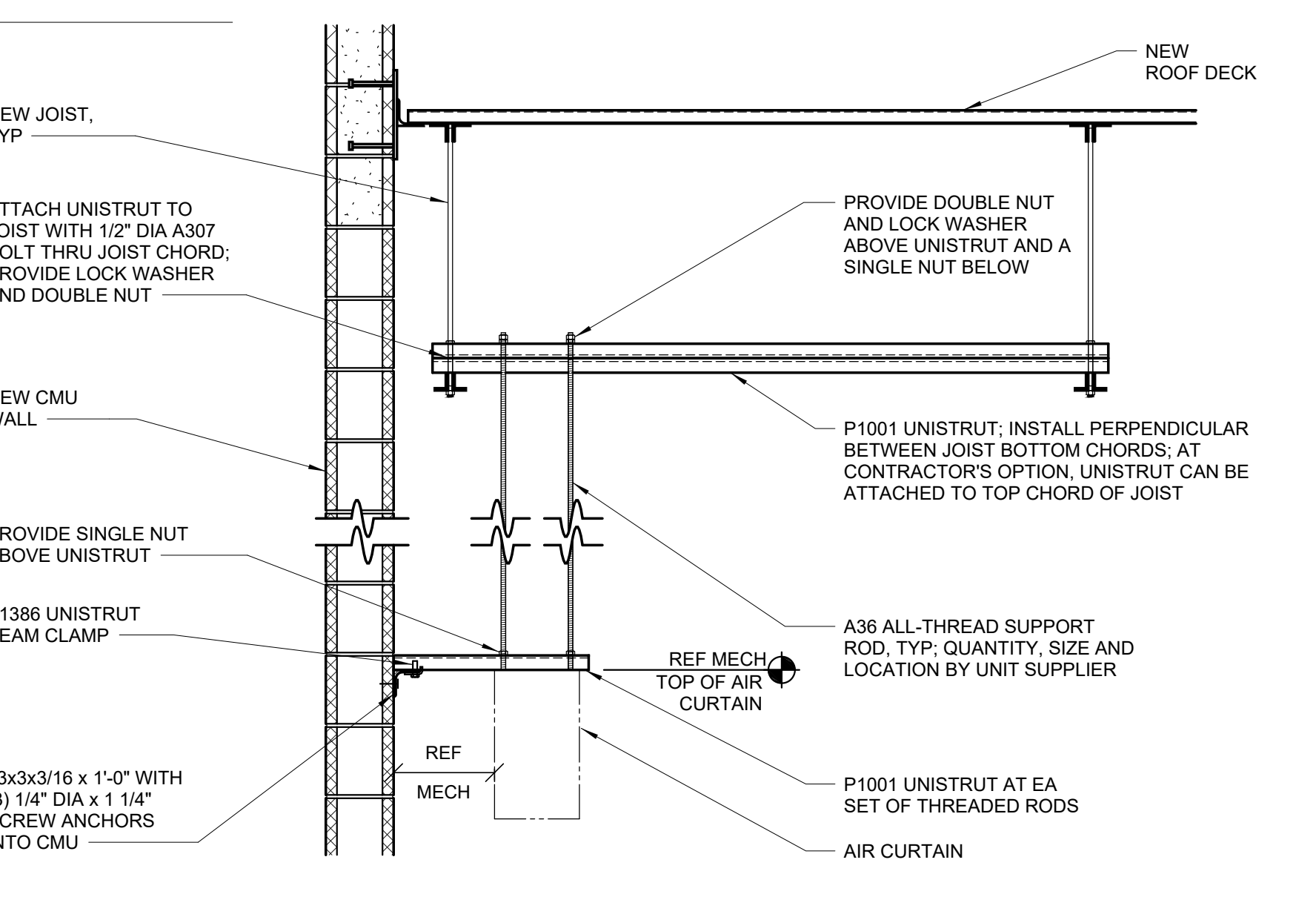
5 RE-ENTRANT DOOR CORNER  
 3/4" = 1'-0"



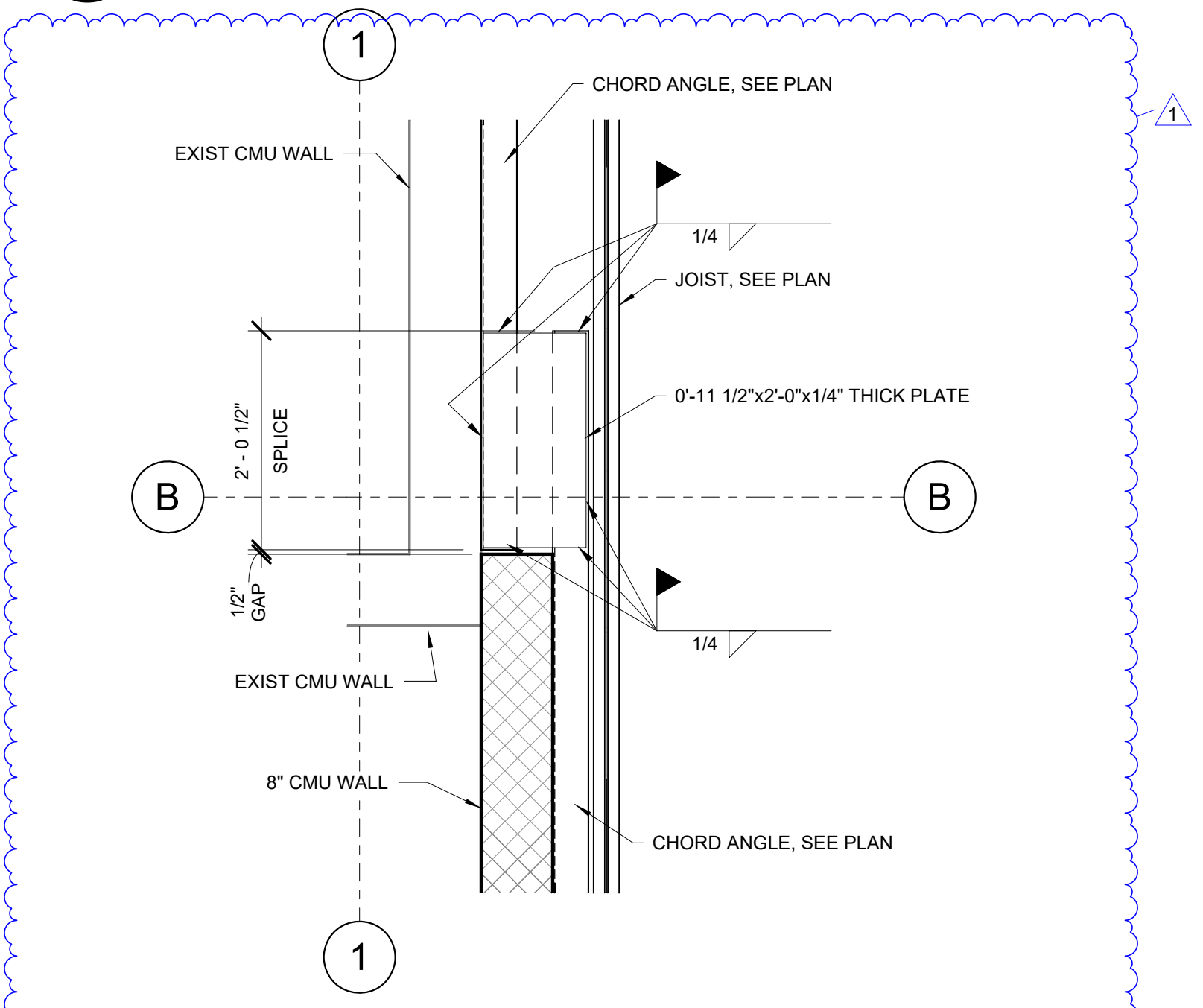
6 SLAB INFILL AT NEW OPNG  
 3/4" = 1'-0"



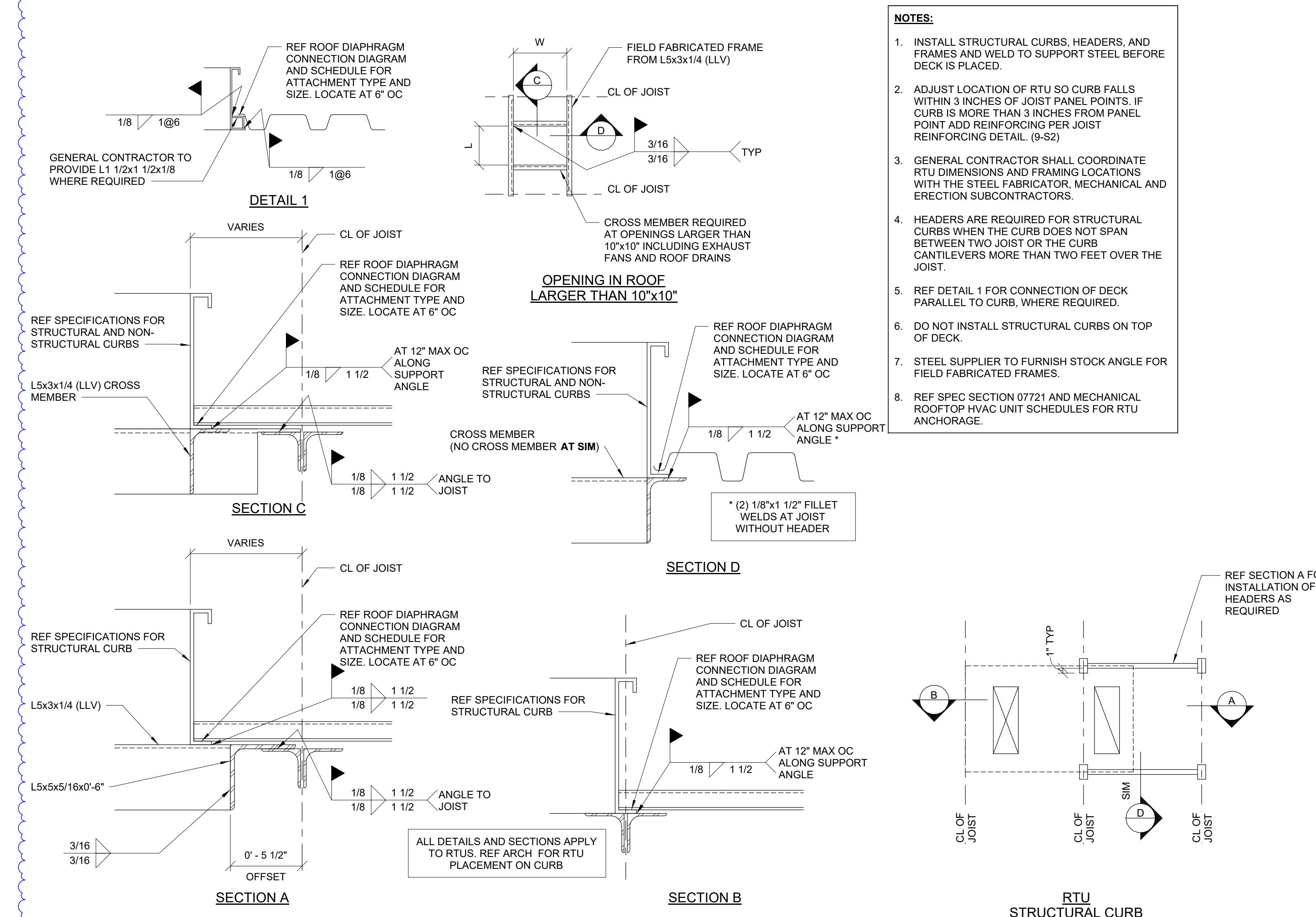
4 RE-ENTRANT CORNER REINFORCING  
 NTS



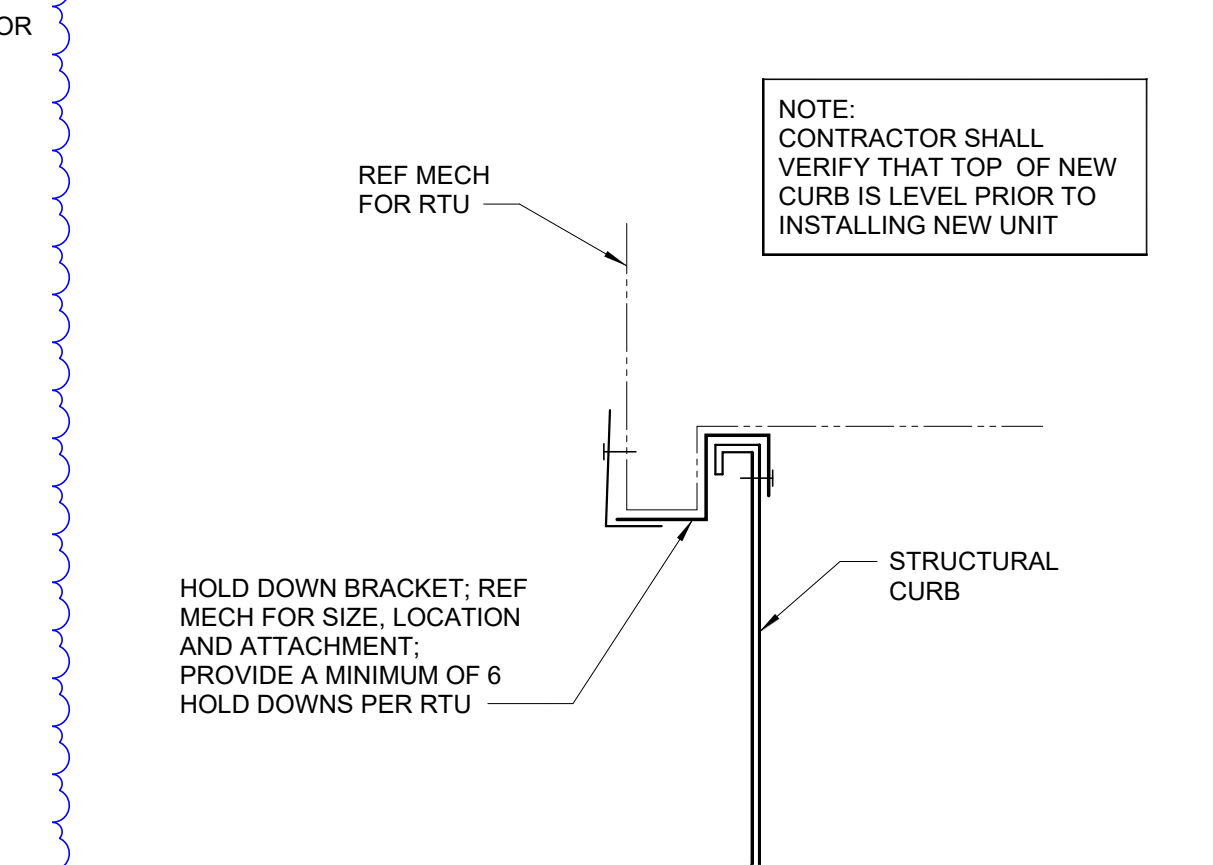
7 AIR CURTAIN SUPPORT  
 3/4" = 1'-0"



8 CHORD SPLICE DETAIL  
 3/4" = 1'-0"



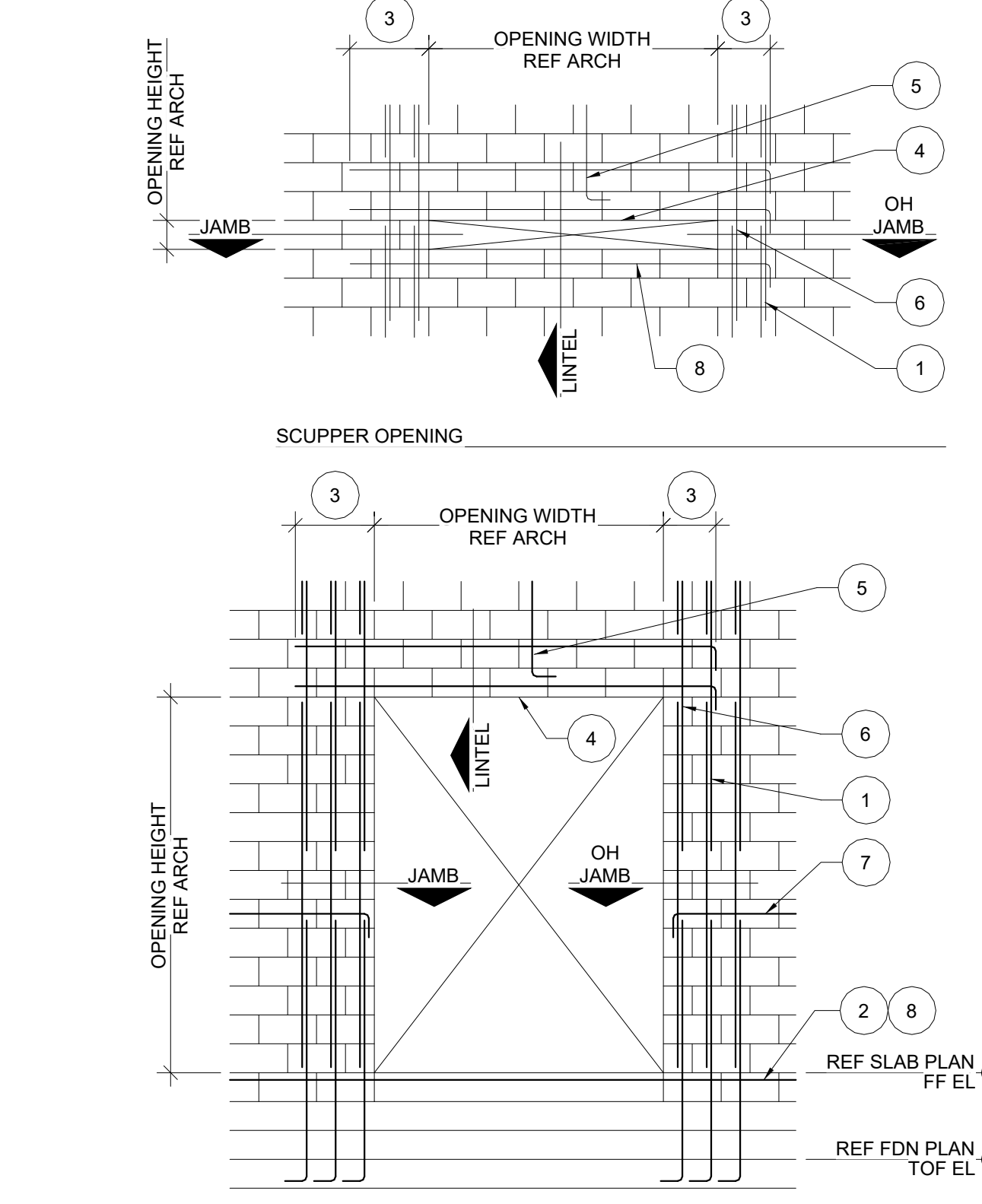
2 RTU SUPPORT FRAMING PLAN  
 1:6



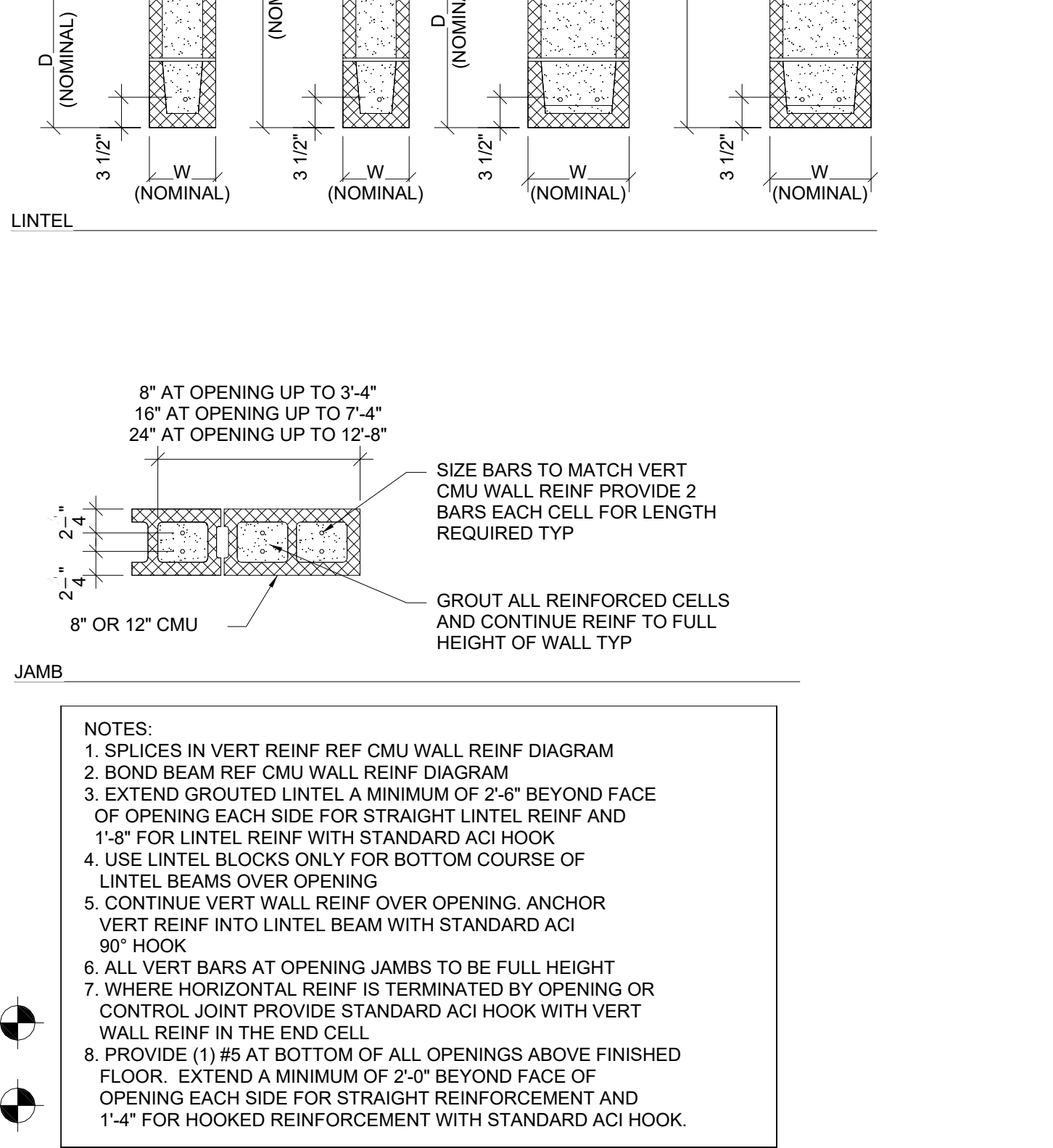
1 RTU TO CURB ATTACHMENT  
 1/8" = 1'-0"

CMU LINTEL SCHEDULE

WIDTH (W)	CLEAR SPAN	DEPTH (D)	LINTEL REINF
8"	UP TO 7'-4"	1'-4"	(1) #6 BOTTOM
8"	UP TO 12'-8"	2'-8"	(1) #6 T&B
12"	UP TO 6'-0"	2'-0"	(2) #6 BOTTOM
12"	UP TO 12'-8"	4'-0"	(2) #6 T&B

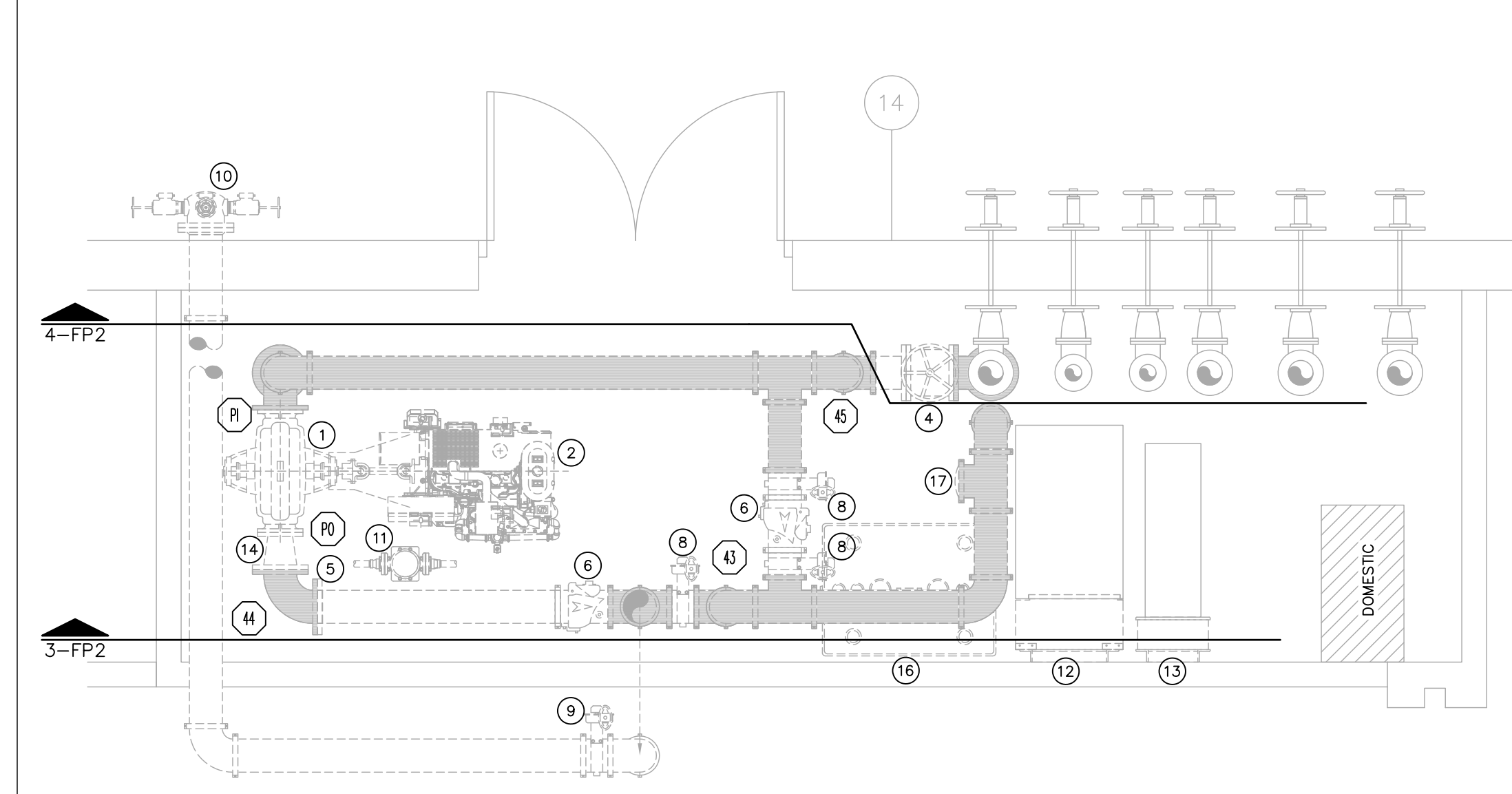


3 TYP MASONRY WALL OPENING DIAGRAM AND SCHEDULE  
 3/4" = 1'-0"

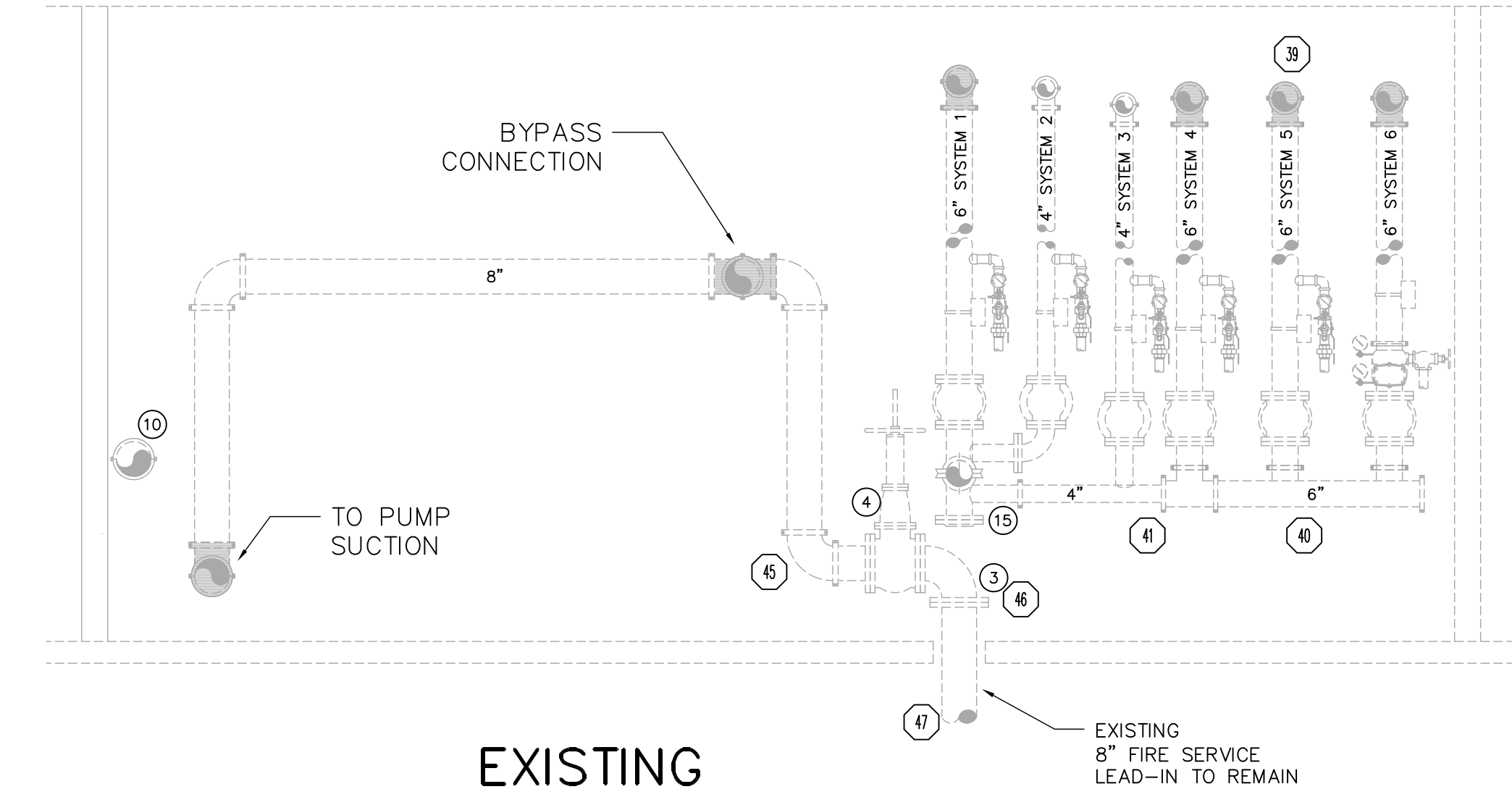




PROTECTION CRITERIA LEGEND				
OCCUPANCY CLASSIFICATION	DISCHARGE PRESSURE (# OPERATING SPRINKLERS - DESIGN AREA)	HOSE ALLOWANCE (GPM)	MAXIMUM SPRINKLER SPACING (SQ. FT)	DESIGN BASIS
PICKUP COOLERS/FREEZERS (MISCELLANEOUS STORAGE)	MINIMUM 0.4/2000 SQ FT OR ENTIRE AREA	500	100	GROUP A PLASTICS TO 10'-0" ON RACKS UNDER A MAXIMUM 20' CEILING; NFPA 13: TABLE 13.2.1 WITH SECTION 23.4.4.2.4 AND 23.4.4.2.5
PICKUP STORAGE	12 PSI (2 AS-25/1L) 7 PSI (12 AS-45/3L)	250	96	GROUP A PLASTICS STORAGE TO 8'-0" (22'-0" CEILING HEIGHT), 4'-0"; UL LLC TECHNICAL REPORT PROJECT 4789705078, NC27954 - TABLE 2 SUMMARY OF TESTS, TEST SRR-12092002/12102002

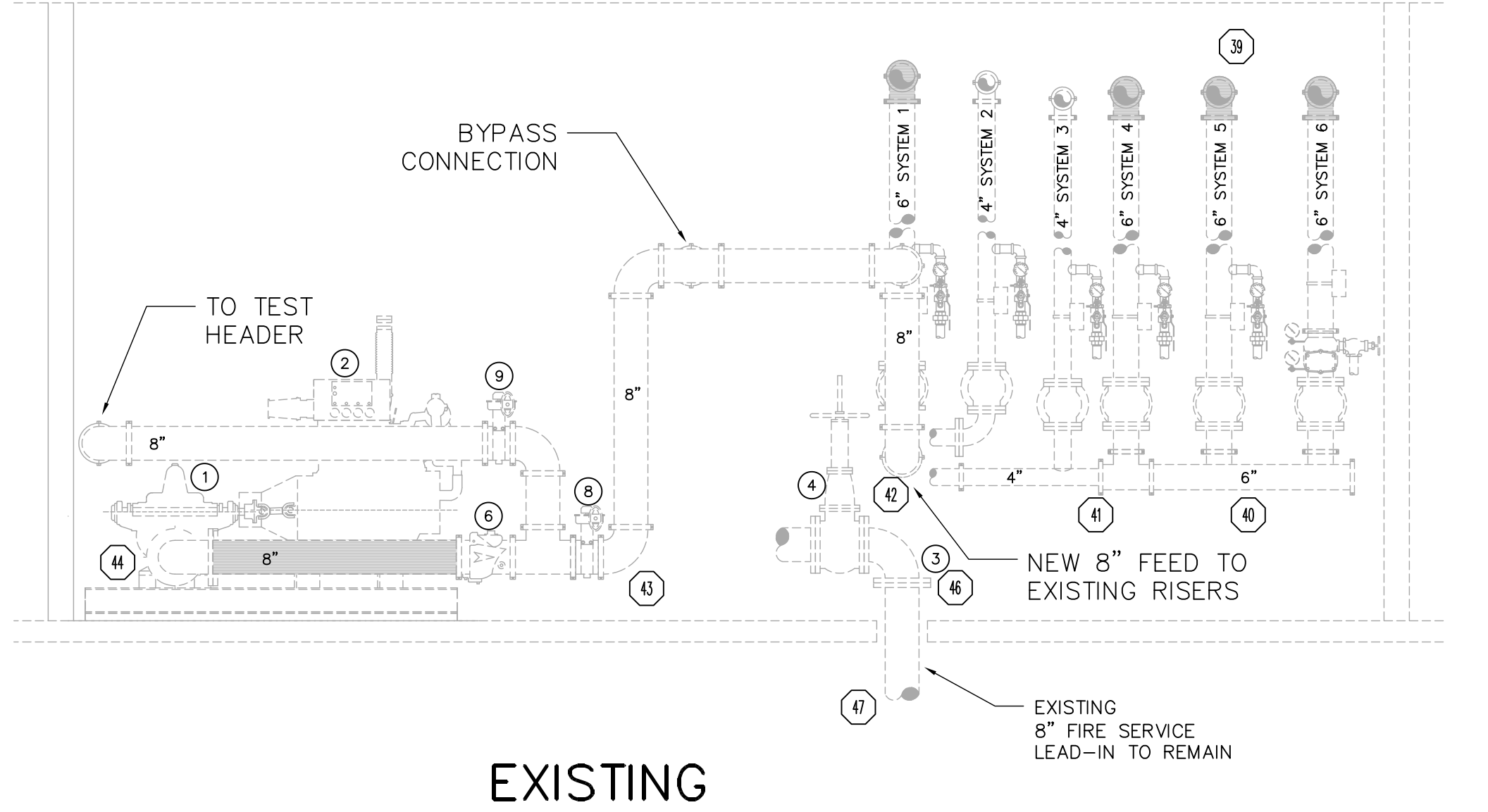


**5 EXISTING FIRE PUMP ROOM**  
NOT TO SCALE

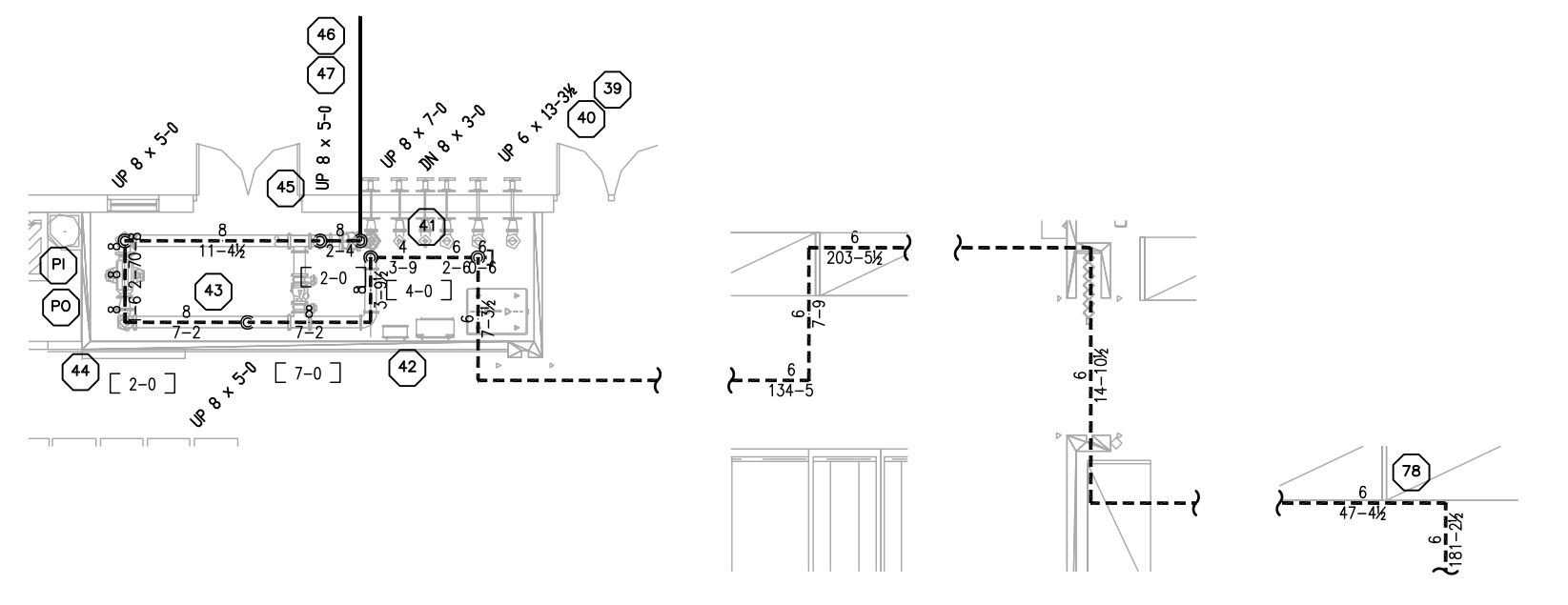


**4 EXISTING FIRE PUMP ROOM SECTION**  
NOT TO SCALE

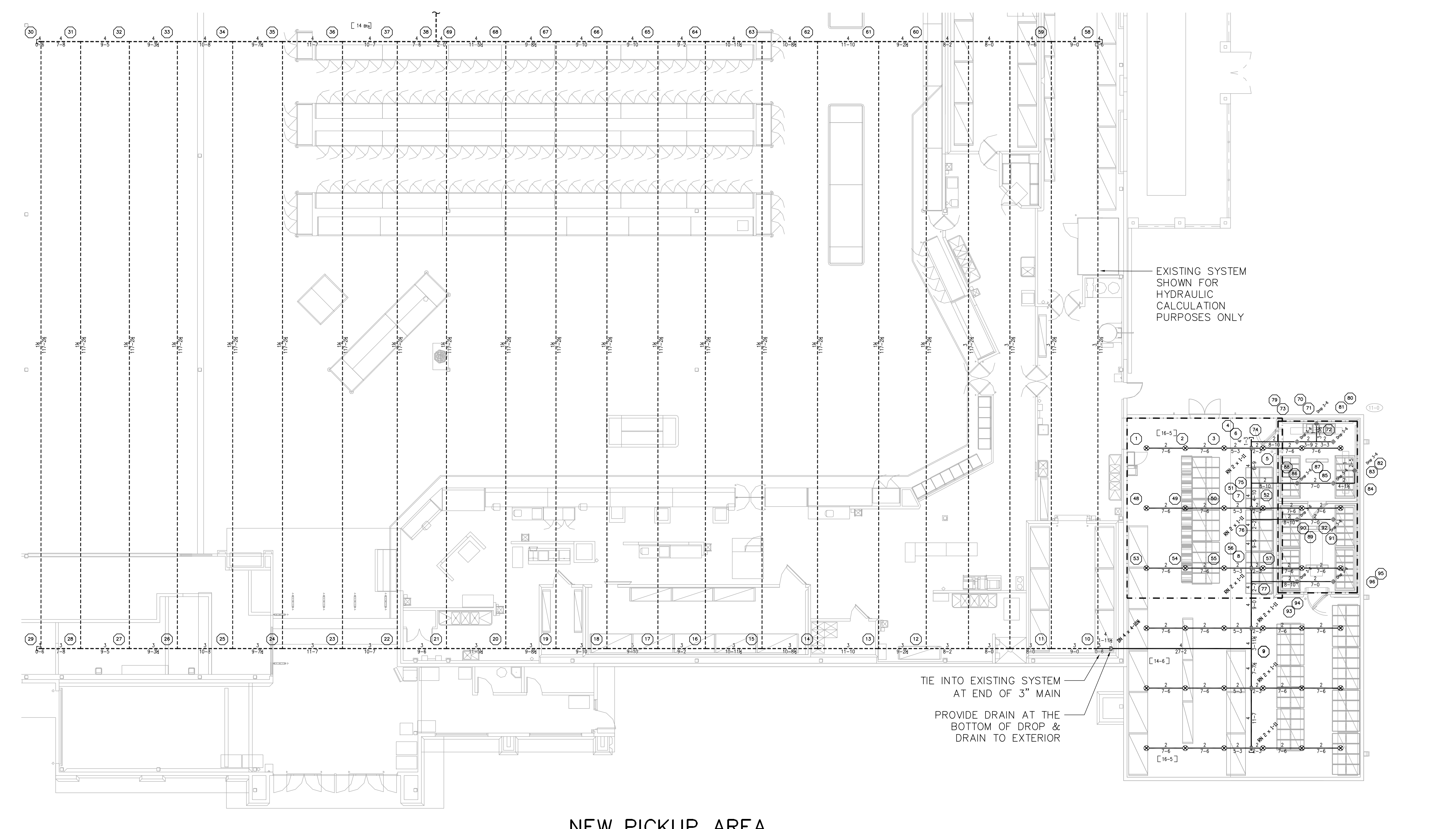
- LEGEND:**
- 80 PSI @ 1500 GPM FIRE PUMP PROVIDED BY OWNER INSTALLED BY CONTRACTOR
  - 86 HP DIESEL MOTOR PROVIDED BY OWNER INSTALLED BY CONTRACTOR
  - 8" FLANGE 90° ELL
  - 8" OS&Y VALVE WITH TAMPER SWITCH
  - 8" GROOVED FLANGE
  - 8" CHECK VALVE
  - NOT USED
  - 8" BUTTERFLY VALVE WITH TAMPER SWITCH, NORMALLY OPEN
  - 8" BUTTERFLY VALVE WITH TAMPER SWITCH, NORMALLY CLOSED
  - TEST HEADER PROVIDED BY OWNER INSTALLED BY CONTRACTOR
  - JOCKEY PUMP PROVIDED BY OWNER INSTALLED BY CONTRACTOR
  - FIRE PUMP CONTROLLER PROVIDED BY OWNER INSTALLED BY CONTRACTOR
  - JOCKEY PUMP CONTROLLER PROVIDED BY OWNER INSTALLED BY CONTRACTOR
  - 8x6 CONCENTRIC REDUCER PROVIDED BY OWNER INSTALLED BY CONTRACTOR
  - 6" WELD ASSEMBLY W/ OUTLETS TO MATCH EXISTING PIPING
  - 115 GAL DOUBLE-HALL DIESEL FUEL TANK PROVIDED BY OWNER INSTALLED BY CONTRACTOR
  - 8" GROOVE TEE, CAP OFF FOR FUTURE USE



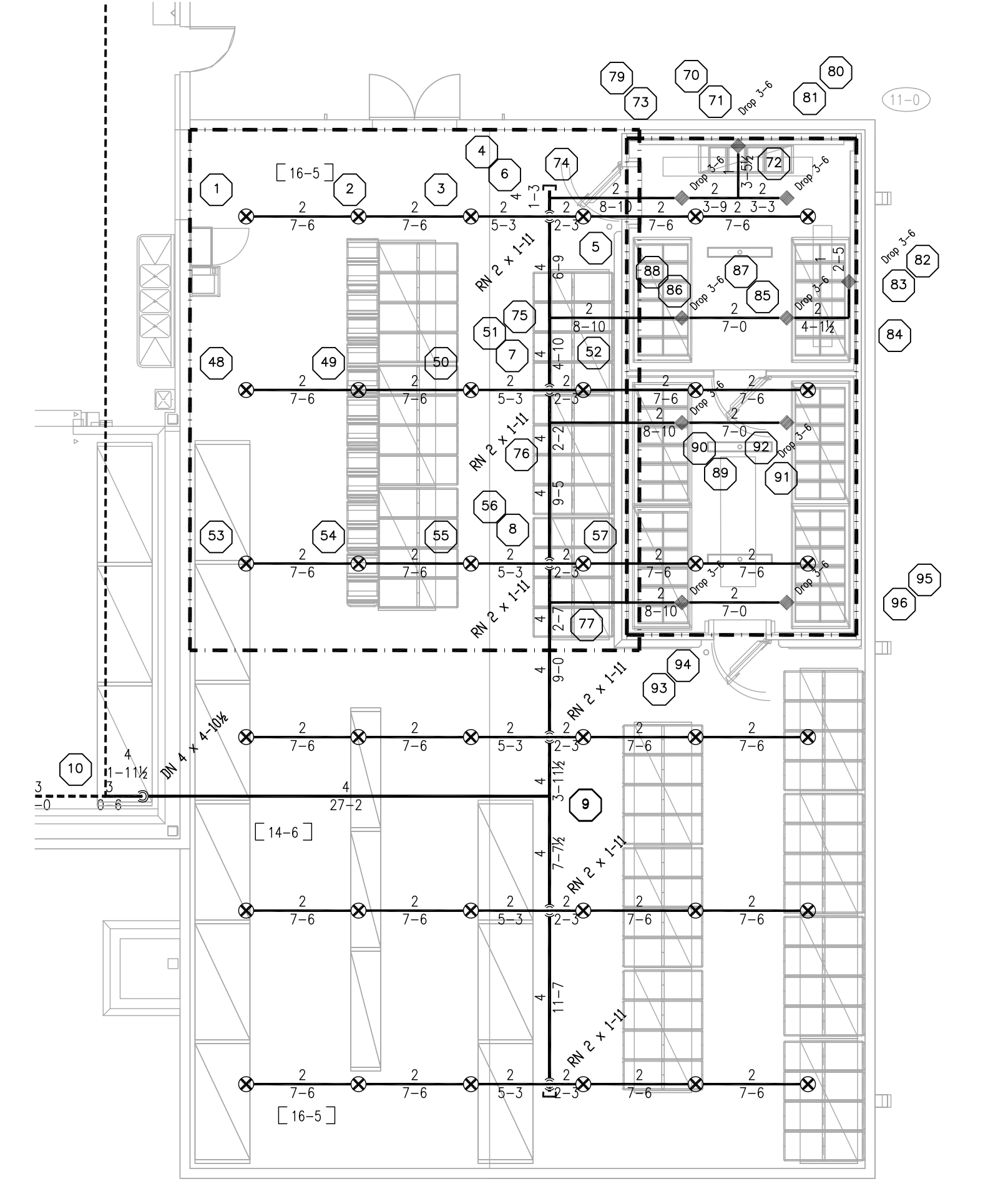
**3 EXISTING FIRE PUMP ROOM SECTION**  
NOT TO SCALE



**1 NEW PICKUP AREA FIRE SPRINKLER PLAN**  
SCALE: 3/32" = 1"



**1 NEW PICKUP AREA FIRE SPRINKLER PLAN**  
SCALE: 3/32" = 1"



**2 NEW PICKUP FIRE SPRINKLER PLAN DETAIL**  
SCALE: 1/8" = 1"

HYDRAULIC DESIGN		HYDRAULIC DESIGN		HYDRAULIC DESIGN	
SYSTEM #:	AREA # PICKUP STORAGE	SYSTEM #:	AREA # PICKUP STORAGE	SYSTEM #:	AREA # PICKUP COOLERS
SPRINKLERS CALCULATED:	2 SPRINKLERS	SPRINKLERS CALCULATED:	12 SPRINKLERS	SPRINKLERS CALCULATED:	10 SPRINKLERS
MINIMUM PRESSURE:	12 PSI	MINIMUM PRESSURE:	7 PSI	SPRINKLER DENSITY REQ'D:	0.4 GPM/SQ. FT.
AREA OF DISCHARGE:	2 SPRINKLERS	AREA OF DISCHARGE:	12 SPRINKLERS	AREA OF DISCHARGE:	2000 SQ. FT.
HOSE ALLOWANCE:	250 GPM	HOSE ALLOWANCE:	250 GPM	HOSE ALLOWANCE:	500 GPM
SPRINKLER SYSTEM DEMAND @ 40:	118 GPM	SPRINKLER SYSTEM DEMAND @ 40:	572 GPM	SPRINKLER SYSTEM DEMAND @ 40:	801 GPM
DEMAND PRESSURE @ 40:	25 PSI	DEMAND PRESSURE @ 40:	45 PSI	DEMAND PRESSURE @ 40:	74 PSI
CALC FILE:	PUYALLUP AREA 1	CALC FILE:	PUYALLUP AREA 1	CALC FILE:	PUYALLUP AREA 2

NFPA 13 - WHERE THE TOTAL DESIGN DISCHARGE FROM THESE OPERATING SPRINKLERS IS LESS THAN THE MINIMUM REQUIRED DISCHARGE DETERMINED BY MULTIPLYING THE REQUIRED DESIGN DENSITY TIMES THE REQUIRED MINIMUM DESIGN AREA, AN ADDITIONAL FLOW SHALL BE ADDED AT THE POINT OF CONNECTION OF THE BRANCHLINE TO THE CROSS MAIN FURTHEST FROM THE SOURCE TO INCREASE THE OVERALL DEMAND, NOT INCLUDING THE HOSE ALLOWANCE, TO THE MINIMUM REQUIRED DISCHARGE AS DETERMINED ABOVE.

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**telgrian**  
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JOB NUMBERS: WALSCH0402 PROJECT: 193

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CHECKED BY: DW  
DRAWN BY: BY  
PROTO CYCLE: 06/25/21  
DOCUMENT DATE: 09/03/21

DRAWING REVIEWED BY  
**Benjamin R. Young, CET**  
MSCE  
WATERBASED POTENTIAL LAIWOV - LEVEL IV  
WATERBASED INJECTION & TESTING - LEVEL II  
SPECIAL HAZARDOUS SUPPRESSION SYSTEMS - LEVEL I  
CERTIFICATION NUMBER: 116209

DOCUMENTS THAT DO NOT HAVE THE ARCHITECT OR ENGINEER OF RECORD SEAL AND SIGNATURE SHALL BE CONSIDERED NOT FOR CONSTRUCTION

**FIRE SPRINKLER REMODEL PIPING PLAN**

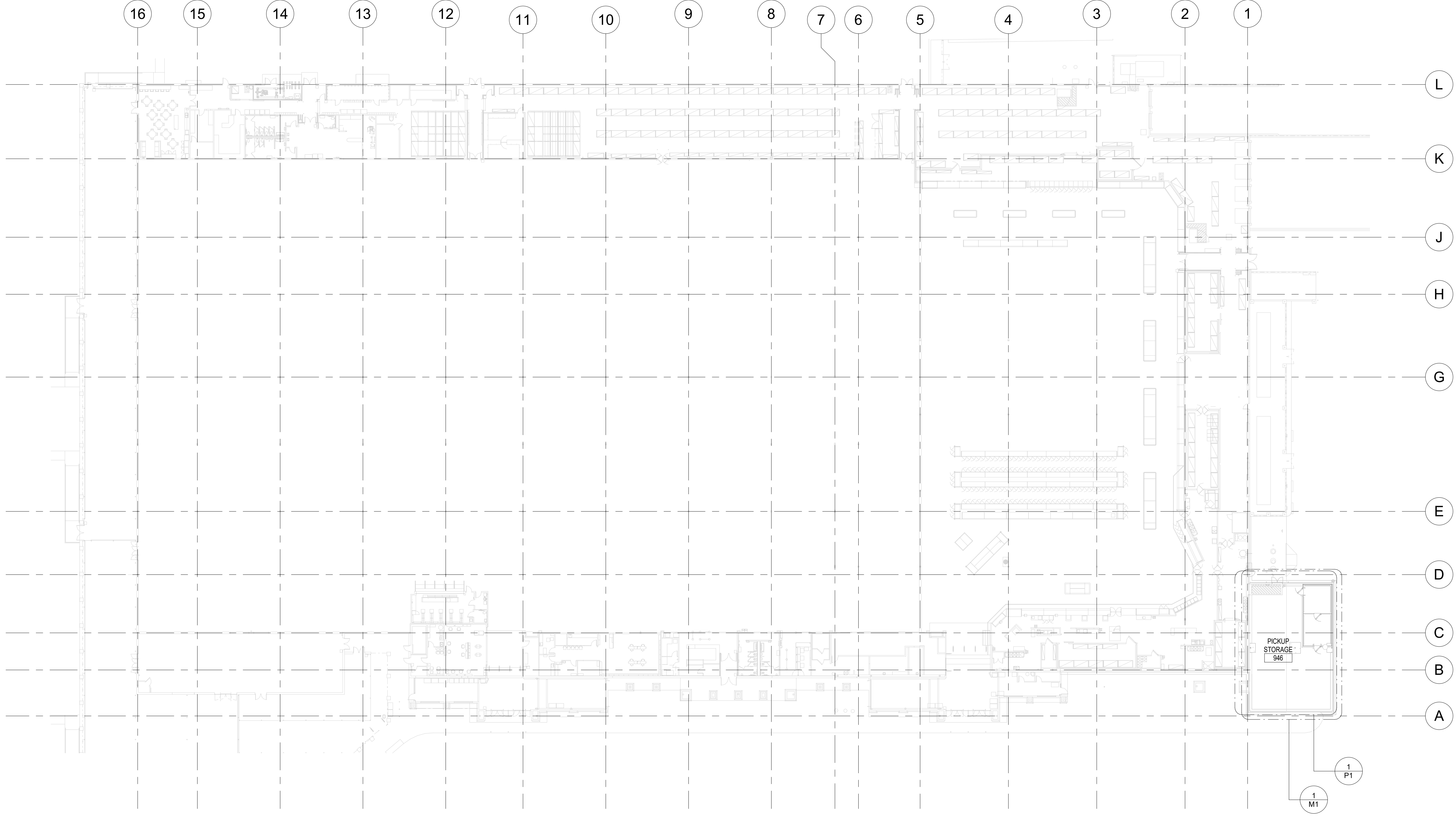
SHEET  
**FP2**

GENERAL NOTES

24 HOURS PRIOR TO SHUTTING DOWN ANY REFRIGERATION SYSTEMS, HVAC SYSTEMS OR ENERGY MANAGEMENT CONTROLS SYSTEMS, SEND EMAIL TO NSRM@WALMART.COM THE E-MAIL SHALL STATE WHAT, WHY, AND WHEN IT IS BEING SHUT DOWN AND HOW LONG IT IS ANTICIPATED TO BE SHUT DOWN. THEN SEND A FOLLOW UP EMAIL TO NSRM@WALMART.COM AFTER THE WORK IS COMPLETE AND THE SYSTEM IS BACK UP AND RUNNING.

19.20.13

- 1. GENERAL NOTES ARE APPLICABLE TO ALL MECHANICAL AND PLUMBING DRAWINGS. 2. PROVIDE ALL MATERIALS FOR A COMPLETE INSTALLATION IN ALL RESPECTS AND READY FOR INTENDED USE AND IN STRICT ACCORDANCE WITH STATE AND LOCAL CODES AND MANUFACTURERS RECOMMENDATIONS. 3. STORE MUST BE KEPT IN OPERATION ARRANGE ALL WORK TO KEEP DISRUPTIONS TO STORE OPERATIONS TO A MINIMUM. COORDINATE WITH EXISTING AND NEW CONSTRUCTION. PAY ALL NECESSARY FEES AND PERMITS. 4. IF NEW CONSTRUCTION DISRUPTS EXISTING UNDERGROUND SERVICES (GAS, SEWER, DOMESTIC WATER, FIRE SPRINKLER, ETC.), PROVIDE ALL MATERIALS AND LABOR AS REQUIRED TO MAINTAIN THEIR PROPER OPERATION. 5. CONTRACTOR IS RESPONSIBLE FOR UTILIZING OWNER APPROVED ROOFING CONTRACTORS FOR CUTTING AND PATCHING ROOF. 6. NOT USED. 7. CONTRACTOR SHALL INSTALL OWNER FURNISHED RTU CURB AND TEMPORARY COVER CURB PER ARCH DETAIL (IF USED). RTUS SHALL BE FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR. CURB ADAPTOR (IF USED) SHALL BE FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR. RTU SHALL BE SET ON ROOF CURB. DO NOT SET RTU DIRECTLY ON ROOF. COORDINATE RTU INSTALLATION WITH WALMART CONSTRUCTION MANAGER AND AES AS REQUIRED FOR RTU/AHU CURB ADAPTERS. 8. REPLACE FILTERS ON NEW RTU NO MORE THAN ONE DAY PRIOR TO STARTING TEST & BALANCE PROCEDURES. FILTERS SHALL BE 2" THICK EQUAL TO FARR 3030. 9. LABEL RTU WITH 6" BLACK PERMANENT PAINT STENCIL AND LABEL SENSOR WITH 2" HIGH BLACK PERMANENT PAINT STENCIL. NUMBER THE SENSOR TO CORRESPOND WITH RTU IT CONTROLS. LOCATE LABEL FOR UNIT NEAR ITS DISCONNECT SO IT IS READABLE FROM ROOF HATCH. 10. IF RTUS ARE INSTALLED BEFORE ROOFING IS COMPLETED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE WHICH OCCURS DURING THE ROOFING PROCESS, INCLUDING TAR ON COILS. 11. ROOFTOP UNIT CONDENSATE SHALL BE ROUTED TO DRAIN WITH THE SLOPE OF THE ROOF. 12. MECHANICAL FAILURE OF NEW ROOFTOP UNITS PRIOR TO ACCEPTANCE BY OWNER, SHALL BE REPAIRED OR REPLACED BY CONTRACTOR THROUGH WARRANTY AGREEMENT WITH MANUFACTURER. 13. IF APPLICABLE, COORDINATE ALL NEW GAS PIPING AND ROOF EQUIPMENT WITH EXISTING GAS PIPING, SKYLIGHTS, AND ROOF EQUIPMENT. FIELD VERIFY EXISTING CONDITIONS. 14. ROOFTOP UNITS BEING ADDED TO EXISTING ROOF STRUCTURE SHALL BE INSTALLED WHEN THE UNITS ARRIVE AT THE JOB SITE. REFERENCE ARCHITECTURAL/STRUCTURAL SHEETS FOR DETAILS. 15. INSTALL VTR'S A MINIMUM OF 24" AND FLUES A MINIMUM OF 36" FROM ROOF EDGE AND/OR PARAPET WALLS. INSTALL VTR'S, FLUES AND EXHAUST FANS A MINIMUM OF 10 FT FROM OUTSIDE AIR INTAKE OF ROOF TOP UNITS. INSTALL EXHAUST FANS AND ROOF TOP UNITS A MINIMUM OF 10 FT FROM ROOF EDGE OR A MINIMUM OF 60" FROM PARAPET WALLS THAT ARE AT LEAST 42" HIGH. 16. COORDINATE LOCATION OF DUCTWORK AND DIFFUSERS WITH LIGHT FIXTURES TO PREVENT EXCESSIVE SHADOWING OF THE SALES OR STOCK FLOORS. LIGHT FIXTURE LOCATIONS TAKE PRECEDENCE. FIELD VERIFY STRUCTURAL CONDITIONS BEFORE FABRICATION OF DUCTWORK. 17. FLEXIBLE DUCT CONNECTIONS TO NEW OR RELOCATED DIFFUSERS AND GRILLES ARE PROHIBITED. INSPECT CONDITION OF EXISTING DUCT AND REPLACE DAMAGED DUCT WITH EQUIVALENT TYPE OF DUCT AS REQUIRED. 18. DUCT SIZES SHOWN ON DRAWINGS ARE NET FREE AREA. CONTRACTOR'S OPTION. ROUND DUCTWORK OF EQUIVALENT FREE AREA MAY BE USED IN LIEU OF RECTANGULAR. INCREASE RECTANGULAR SHEET METAL SIZE AS REQUIRED FOR LINER. REFER TO SPECIFICATIONS FOR THE INSULATION THICKNESS. 19. DUCT SUPPORT AND GRILLE DETAIL IS APPLICABLE THROUGHOUT THE STORE. DO NOT USE FASTENERS THAT PENETRATE ROOF DECK. 20. TYPICAL BRANCH DUCT FITTING DETAIL IS APPLICABLE THROUGHOUT THE STORE. 21. EXISTING PIPE SIZES AND LOCATIONS HAVE NOT BEEN FIELD VERIFIED. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY LOCATION AND SIZE OF ALL EXISTING PIPING THAT IS BEING CONNECTED TO OR MODIFIED, AND TO VERIFY THAT PROPER SLOPES AND ELEVATIONS ARE AVAILABLE. MAINTAIN MINIMUM SLOPE OF 1/8" PER FOOT FOR SAN SEWER PIPING 4" OR LARGER, MAINTAIN MINIMUM SLOPE OF 1/4" PER FOOT FOR SAN SEWER PIPING SMALLER THAN 4". REF ARCH. FOR TRENCHING REQUIREMENTS. 22. NOT USED. 23. PLUMBING CONTRACTOR SHALL VERIFY EXISTING SEWER AND VENT PIPE SIZE AND ELEVATION AND SHALL VERIFY THAT PROPER SLOPES ARE AVAILABLE BEFORE CUTTING FLOOR SLAB FOR NEW SEWER PIPING. 24. NOT USED. 25. PLUMBING CONTRACTOR SHALL PROVIDE ONE YEAR WARRANTY FOR PROPER SEWER SYSTEM OPERATION. 26. SANITARY DRAINAGE LINES AND FITTINGS (DRAIN, WASTE AND VENT) SHALL BE CAST IRON, COATED INSIDE AND OUTSIDE, WHERE PERMITTED BY LOCAL CODES. PVC-DWV PLASTIC SCHEDULE 40 MAY BE USED IN LIEU OF CAST IRON. ALL PHOTOLAB PLUMBING SHALL BE PVC. 27. NOT USED. 28. PROVIDE AUTOMATIC TRAP PRIMERS ON FLOOR DRAINS IF REQUIRED BY LOCAL PLUMBING CODES. 29. ALL FLOOR CLEANOUTS SHALL BE INSTALLED FLUSH WITH FLOOR FINISH MATERIAL OR FLUSH WITH CONCRETE SLAB IF NO FLOOR FINISH MATERIAL IS CALLED OUT FOR ON ARCHITECTURAL DRAWINGS. 30. LOCATE ALL FLOOR CLEAN-OUTS OUT OF TRAFFIC WAYS, WHILE MAINTAINING ACCESSIBILITY. LOCATE PER DIMENSIONS IF SHOWN ON PLANS. 31. FLOOR CUTS SHALL BE STRAIGHT AND CLEAN, REPLACE REMOVED SLAB WITH CONCRETE FLUSH AND SMOOTH WITH ADJACENT FLOOR SLAB. REFERENCE ARCHITECTURAL SHEETS. COORDINATE WITH GENERAL CONTRACTOR. 32. CAP ALL PIPING OPENINGS DURING CONSTRUCTION UNTIL FINAL CONNECTIONS TO EQUIPMENT AND ACCESSORIES ARE MADE. 33. CUT AND PATCH EXISTING CONCRETE FLOOR SLAB FOR INSTALLATION OF NEW UNDERGROUND PLUMBING PIPE. MATCH EXISTING CONSTRUCTION. 34. DO NOT INSTALL PIPING WITHIN COOLER PANELS. INSTALL EXPOSED PIPING IN PREP AREAS A MINIMUM OF 1" FROM PANEL WALL AND 6" ABOVE FINISHED FLOOR TO ALLOW FOR CLEANING. USE ONLY NON-CORROSIVE MATERIALS FOR SPACERS AND ANCHORS. 35. PROVIDE ESCUTCHEON PLATES FOR PLUMBING PENETRATIONS THROUGH GROCERY CEILINGS AND WALLS. 36. PROVIDE AIR TIGHT SEAL AROUND PIPING PENETRATIONS THROUGH COOLER/FREEZER WALLS AND CEILINGS. FINISH WITH ESCUTCHEON PLATE. 37. PROVIDE HEAT TAPE AND INSULATION ON ALL WATER AND DRAIN PIPING EXPOSED TO FREEZING. 38. INSTALL CONTINUOUS SEALANT JOINT AT ALL EXTERIOR WALL PENETRATIONS. 39. AT CONTRACTOR'S OPTION (U.N.O.), IN LIEU OF COPPER WATER PIPING, PEX OR AQUATHERM PIPING MAY BE USED. REFER TO EQUIVALENT NOMINAL PIPE SIZES SCHEDULE AND SPECIFICATIONS. 40. PROVIDE SEISMIC BRACING BASED ON APPROPRIATE SEISMIC ZONE REQUIREMENTS PER SMACNA PUBLISHED SEISMIC DETAILS, LOCAL AND NATIONAL CODES. CONTRACTOR'S RESPONSIBILITY INCLUDES STRUCTURAL ENGINEER'S CERTIFICATION ON DETAILS SUBMITTED FOR PERMITTING. 41. BUILDING COMPONENTS ABANDONED BY THE SCOPE OF WORK SHALL BE SECURED TO PREVENT FALLING, LOOSENING, OR CREATING DAMAGE OF ANY KIND IN THE FUTURE.



STIPULATION FOR REUSE THIS DRAWING HAS BEEN PREPARED FOR THE DESIGN AND CONSTRUCTION OF THE PROJECT AND SHALL BE REUSED ONLY WITH THE SAME CONTRACTOR AND FOR THE SAME PROJECT. IT IS THE USER'S RESPONSIBILITY TO OBTAIN NECESSARY PERMISSIONS FROM THE ORIGINAL OWNER AND CONTRACTOR FOR REUSE OF THIS DRAWING FOR ANY OTHER PROJECT. THE USER SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMISSIONS AND FOR THE PROTECTION OF ALL RIGHTS IN THE ORIGINAL PROJECT BY THE OWNER AND CONTRACTOR.

CONSULTANTS

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09/15/2021

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MECHANICAL AND PLUMBING PLAN

SHEET: MP1

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT AS-BUILT CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS. EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT HIMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

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2	PR#2	03/18/22
4	ADD#6	07/07/22

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ENLARGED PLUMBING PLAN, DETAILS AND SCHEDULE

SHEET: P1

### KEYNOTES

- 15.403 CONNECT TO EXISTING SANITARY PIPE OF EQUAL OR LARGER SIZE. VERIFY SIZE, LOCATION, ELEVATION, AND FLOW DIRECTION AT SITE.
- 15.404 CONNECT TO EXISTING VENT PIPE OF EQUAL OR LARGER SIZE. VERIFY SIZE AND LOCATION AT SITE.
- 15.422 EXISTING PIPING TO REMAIN (VERIFY LOCATION IN FIELD)
- 15.429 CUT AND PATCH EXISTING CONCRETE FLOOR SLAB FOR INSTALLATION OF NEW UNDERGROUND PLUMBING PIPE. MATCH EXISTING CONSTRUCTION AND FINISHES.
- 15.442 REMOVE FIXTURE INCLUDING P-TRAP AND CAP ABANDONED UNDER SLAB WASTE PIPING A MINIMUM OF 8" BELOW FINISHED FLOOR. IT IS NOT REQUIRED TO DEMO UNDER SLAB WASTE PIPING BACK TO ACTIVE MAIN.

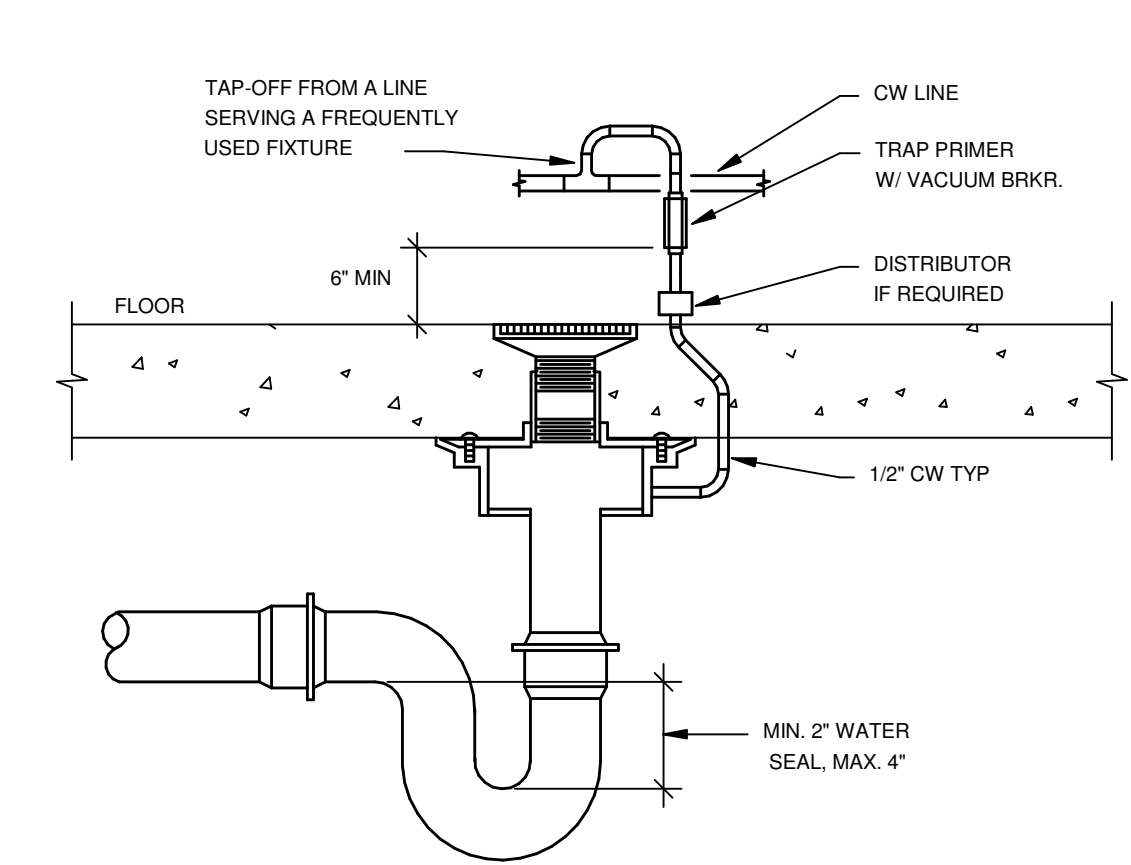
FLOOR DRAIN SCHEDULE			
MARK	MANUFACTURER	MODEL	DESCRIPTION
FD2			HUB DRAIN SAME AS SANITARY WASTE PIPING MATERIAL UNLESS NOTED OTHERWISE ON PLANS

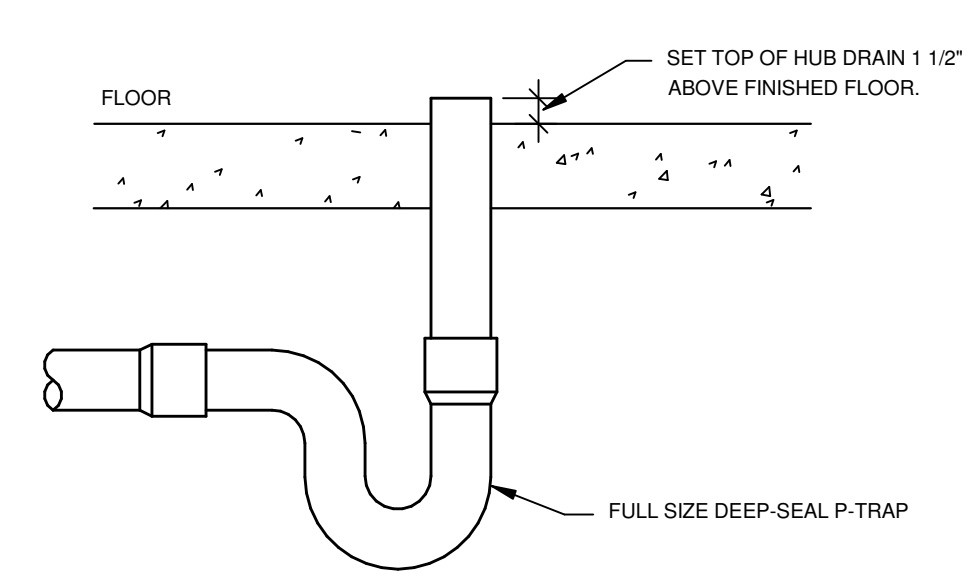
CLEANOUT SCHEDULE			
MARK	MANUFACTURER	MODEL	DESCRIPTION
FCO1	ZURN SIOLX CHIEF MIFAB JAY R. SMITH JOSAM WATTS OATEY	Z1400 852 C1100 4231 55000 CO 200-FX-4 74000	CAST IRON OR PVC BODY, ROUND EXTRA HEAVY-DUTY CAST OR DUCTILE IRON TOP, POLYPROPYLENE OR ABS PLUG, ADJUSTABLE TO FINISH SURFACE.

GENERAL INFORMATION (AS APPLICABLE):  
1. REFER TO PLANS FOR DRAIN OUTLET SIZE.  
2. LOAD CLASSIFICATIONS: LIGHT DUTY <2000 LBS, MEDIUM DUTY 2000 TO 4999 LBS, HEAVY DUTY 5000 TO 7499 LBS, EXTRA HEAVY DUTY 7500 TO 9999 LBS.

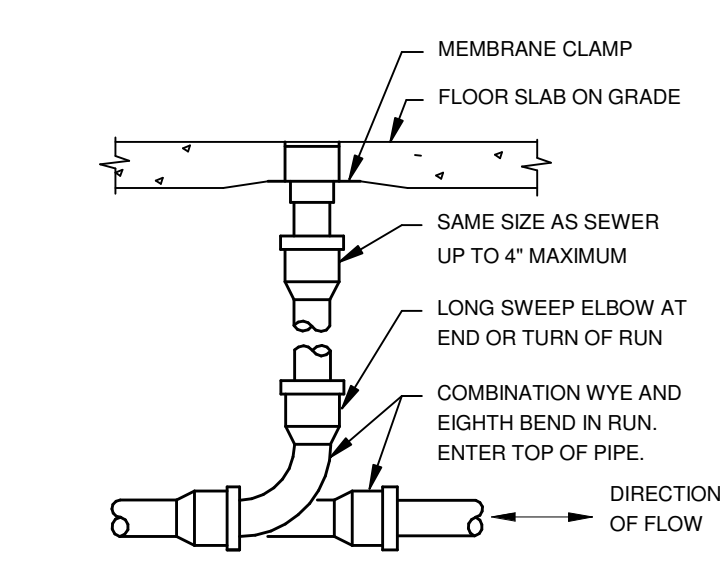
**ROOF DRAIN CALCULATIONS**  
Roof area: 3230 Sqft  
Rain fall rate: 1.5"  
GPM = 3230 sqft x 1.5712 (in/ft) x 1.60 (min/hr) x 7.48 gal/soft = 50.3 gal  
Per 2018 Uniform plumbing code table 1103.3 (for 1/2" slope) required outer size is 6", 8" provided size (Equivalent Diameter) is : 8.56 inches  
Per 2018 Uniform plumbing code table 1103.1, size of downspout required is 2", 10" provided size (Equivalent Diameter) is : 10.70 inches



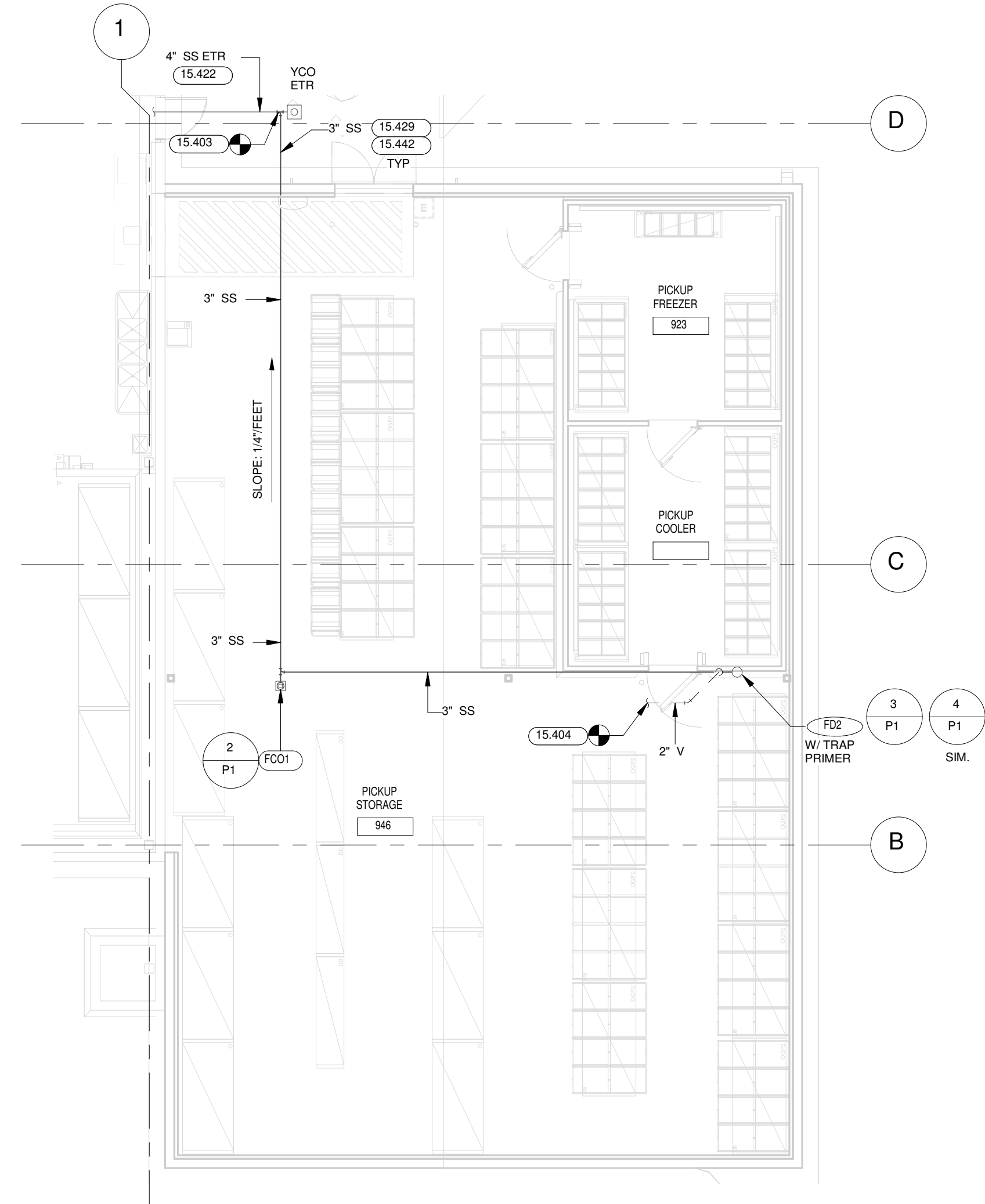
**4 WATER SUPPLIED TRAP PRIMER**  
NTS



**3 HUB DRAIN**  
NTS



**2 FLOOR CLEANOUT**  
NTS



**1 OGP AREA PLUMBING PLAN**  
1/8" = 1'-0"

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND FIELD SURVEY. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. CONTRACTOR SHALL COORDINATE NEW WORK AND CONDITIONS WITH ALL OTHER TRADES AND EXISTING CONDITIONS.  
EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL APPLICABLE CODES AND REGULATIONS IN THE AREA AND FIELD. THIS SHALL BE ALLOWED IN THE EVENT OF DISCREPANCIES BETWEEN THE DRAWINGS AND FIELD CONDITIONS. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. CONTRACTOR SHALL COORDINATE NEW WORK AND CONDITIONS WITH ALL OTHER TRADES AND EXISTING CONDITIONS.

KEYNOTES

15.711 REFER TO ARCHITECTURAL ROOF PLAN AND STRUCTURAL PLANS FOR DETAILS OF ROOF CURB INSTALLATION.

RETRO CURB NOTE

OWNER SHALL FURNISH AND THE CONTRACTOR SHALL INSTALL RETRO CURB (AS MANUFACTURED BY AES INDUSTRIES INC., CONTACT CHAD BURST, 1-800-796-4922) FOR NEW ROOF TOP UNITS. CONTRACTOR SHALL COORDINATE WITH AES EXACT CURB SIZE NEEDED. RETRO CURB SELECTION AND INSTALLATION SHALL BE ADJUSTED FOR ROOF SLOPE TO MAINTAIN LEVEL RTU INSTALLATION AND ABSOLUTE CONDENSATE DRAINAGE. ROUTE NEW CONDENSATE TO DRAIN AWAY FROM UNIT, DOWN SIDE SLOPE OF ROOF. SEE SPECIFICATION FOR ADDITIONAL INFORMATION.

CURB VENDOR TO PROVIDE SIGNED AND SEALED SEISMIC CALCULATIONS FOR CURB CONSTRUCTION AND FOR THE UNIT ATTACHMENT TO CURB.



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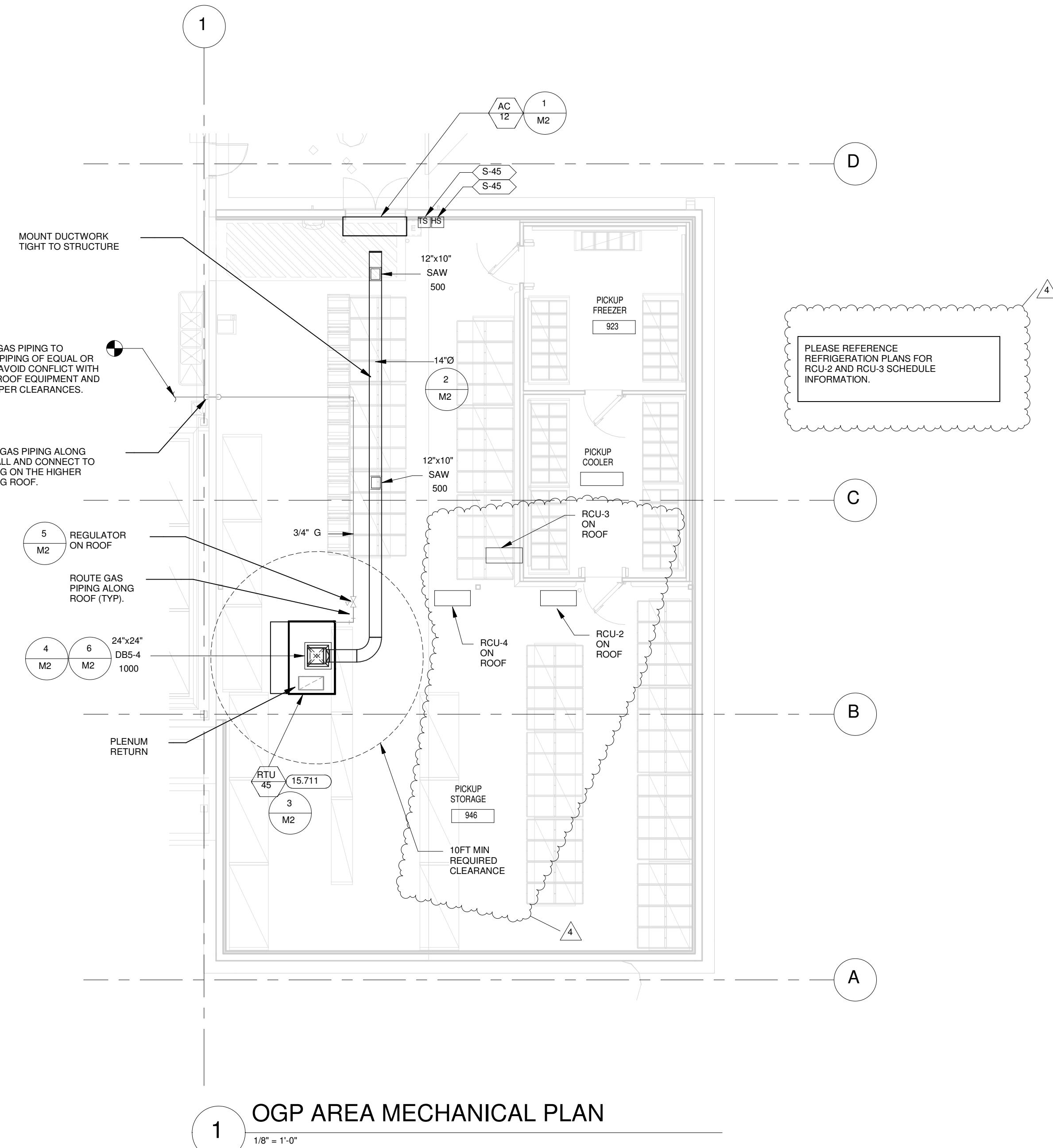


07/07/2022

DOCUMENTS THAT DO NOT HAVE THE ARCHITECT OR ENGINEER'S RECORDS SEAL AND SIGNATURE SHALL BE CONSIDERED NOT FOR CONSTRUCTION.

ENLARGED MECHANICAL PLAN

SHEET: M1



1 OGP AREA MECHANICAL PLAN 1/8" = 1'-0"

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT FIELD CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING THIS SET. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND CONSTRUCTION WITH ALL OTHER TRADES AND EXISTING CONDITIONS.

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THIS RELATED FIELD. THE FAILURE TO ALLOWANCE HEREIN WITH THIS KNOWLEDGE AND THE RESULTING LIABILITY OF THE CONTRACTOR SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY. CONTRACTOR SHALL BE ALLOWED TO REFUSE WORK IF CONDITIONS ARE NOT AS SHOWN ON THE DRAWINGS.





**BAS EQUIPMENT SALVAGE REQUIREMENTS**

ALL DEMOLISHED NOVAR BAS EQUIPMENT SHALL BE RETURNED TO WALMART MECHANICAL SERVICES CONSTRUCTION MANAGER. EQUIPMENT TO BE RETURNED INCLUDES: EXECUTIVE CONTROLLER(S), (BMS), (CWS), (CMS), ETC. PROVIDE DOCUMENTATION FOR ALL EQUIPMENT REMOVED IN ACCORDANCE WITH SPECIFICATIONS AND REQUIRED CLOSE-OUT DOCUMENTS.

**WIRE LEGEND**

WIR-1010 (TAN CABLE 18-2, 20-2 TWISTED PAIR)
WIR-2020 (BLUE CABLE 22-2 TWISTED PAIR)
BELDEN 8719 (16-2 TWISTED PAIR)
BELDEN 8771 (22-3 TWISTED PAIR)
BELDEN 9418 (18-4 W/DRAIN GROUND)
BELDEN 1120A (18-3 TWISTED PAIR)

**NOTES:**

- ALL CABLE WIR-2020 UNLESS NOTED OTHERWISE.
- ALL CABLE FURNISHED AND INSTALLED BY BAS CONTRACTOR.

**GENERAL BAS NOTES**

- TEMPERATURE AND CO2 SENSOR MOUNTING: PROVIDE 1" CONDUIT AND INSTALL BAS CABLE FROM SENSOR TO CONTROL MODULE. MOUNT SENSOR ON BOX. ALL SENSORS TO BE MOUNTED AT 6" UNLESS NOTED OTHERWISE. SENSORS ON SALES FLOOR SHALL BE INSTALLED ON THE BACK SIDE OF COLUMN. DO NOT INSTALL SENSORS IN HVAC SUPPLY AIR PATH OR IN DIRECT SUNLIGHT. REF MECHANICAL DRAWINGS FOR EXACT LOCATIONS.
- GYPSUM BOARD WALLS: PROVIDE A 4" SQUARE RECESSED BOX WITH A SINGLE GANG PLASTER RING FLUSH MOUNTED VERTICALLY.
- BLOCK WALLS AND COLUMNS: PROVIDE A 2"x4" BOX SURFACE MOUNTED VERTICALLY.
- INSULATE BEHIND SENSORS MOUNTED ON EXTERIOR WALLS WITH 1/2" POLYSTYRENE SPACER.
- MOUNT CO2 SENSORS 6" ABOVE TEMPERATURE SENSORS.
- TERMINATIONS SHALL BE MADE IN ACCORDANCE WITH BAS SUPPLIER INSTALLATION INSTRUCTIONS. NO FOIL OR UNUSED WIRE(S) SHALL BE EXPOSED AFTER APPLICATION OF HEAT SHRINK.
- CABLE: PROVIDE CABLE ACCORDING TO DRAWINGS. NO DEVIATION FROM DRAWINGS WILL BE ACCEPTED. CABLES SHALL HAVE EACH END LABELED INDICATING WHERE THE OPPOSITE END TERMINATES. CABLE SHALL BE INSTALLED IN CONDUIT OR CABLE TRAY IN FINISHED AREAS OF BUILDING EXCEPT HVAC CABLE IN SALES FLOOR AREA AT BAR JOISTS.
- MINOR CHANGES IN MATERIALS OR TERMINATION POINTS SHALL NOT INCREASE CONTRACT COST.
- ROUTE BAS CONDUITS IN CONCEALED LOCATIONS (IN WALLS, PIPE RACKS AND/OR CHASES). PROVIDE A TRANSITION FROM THE PVC UNDERSLAB BAS CONDUIT TO EMT OR FLEX. BAS CABLES SHALL BE RUN IN CONDUIT FULL LENGTH, BENEATH REFRIGERATED CASES. BAS CABLES AT BAR JOIST LEVEL IN OPEN SALES AREA AND THE STOCKROOM CAN BE EXPOSED.
- DEMOLITION: COORDINATE WITH ARCHITECTURAL DEMOLITION PLANS THE EXTENT OF BAS DEMOLITION. REMOVE CONDUIT AND WIRES ALL THE WAY BACK TO ORIGINATING JUNCTION BOXES OR DEVICES. DEMOLITION SHALL NOT AFFECT ACTIVE CIRCUITS.
- BAS CONTRACTOR SHALL PROVIDE ASSISTANCE TO THE BAS SUPPLIER ON PERFORMING EQUIPMENT TESTS ON POWER SWITCHING PANELS AS NECESSARY.
- DIMMING CONTROL WIRING MUST TERMINATE IN HOME RUN FIXTURES ONLY. AS SHOWN ON EIMS PLANS. PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. DO NOT MODIFY THE LISTED FIXTURE'S WIRING HARNESS OR TERMINATE CONTROL WIRING IN THE ADJACENT FIXTURES.
- DO NOT INSTALL EQUIPMENT OR CONDUITS DIRECTLY UNDER SKYLIGHT WELLS UNLESS INDICATED OTHERWISE ON PLANS.
- WHERE GROUPED CONDUITS ARE INSTALLED WITHIN THE JOIST SPACE, COORDINATE WITH SPRINKLER CONTRACTOR PRIOR TO INSTALLATION IN ORDER TO MAINTAIN REQUIRED CLEARANCES FROM SPRINKLERS.
- 24 HOURS PRIOR TO SHUTTING DOWN HVAC SYSTEMS OR ENERGY MANAGEMENT CONTROLS SYSTEMS, SEND EMAIL TO NSRM@WALMART.COM. THE EMAIL SHALL STATE WHAT, WHY, AND WHEN IT IS BEING SHUT DOWN AND HOW LONG IT IS ANTICIPATED TO BE SHUT DOWN. THEN SEND A FOLLOW UP EMAIL TO NSRM@WALMART.COM AFTER THE WORK IS COMPLETE AND THE SYSTEM IS BACK UP AND RUNNING.



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CONSULTANTS

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310 31ST AVENUE SE, PUYALLUP, WA 98374  
STORE NO. 2403 - 278  
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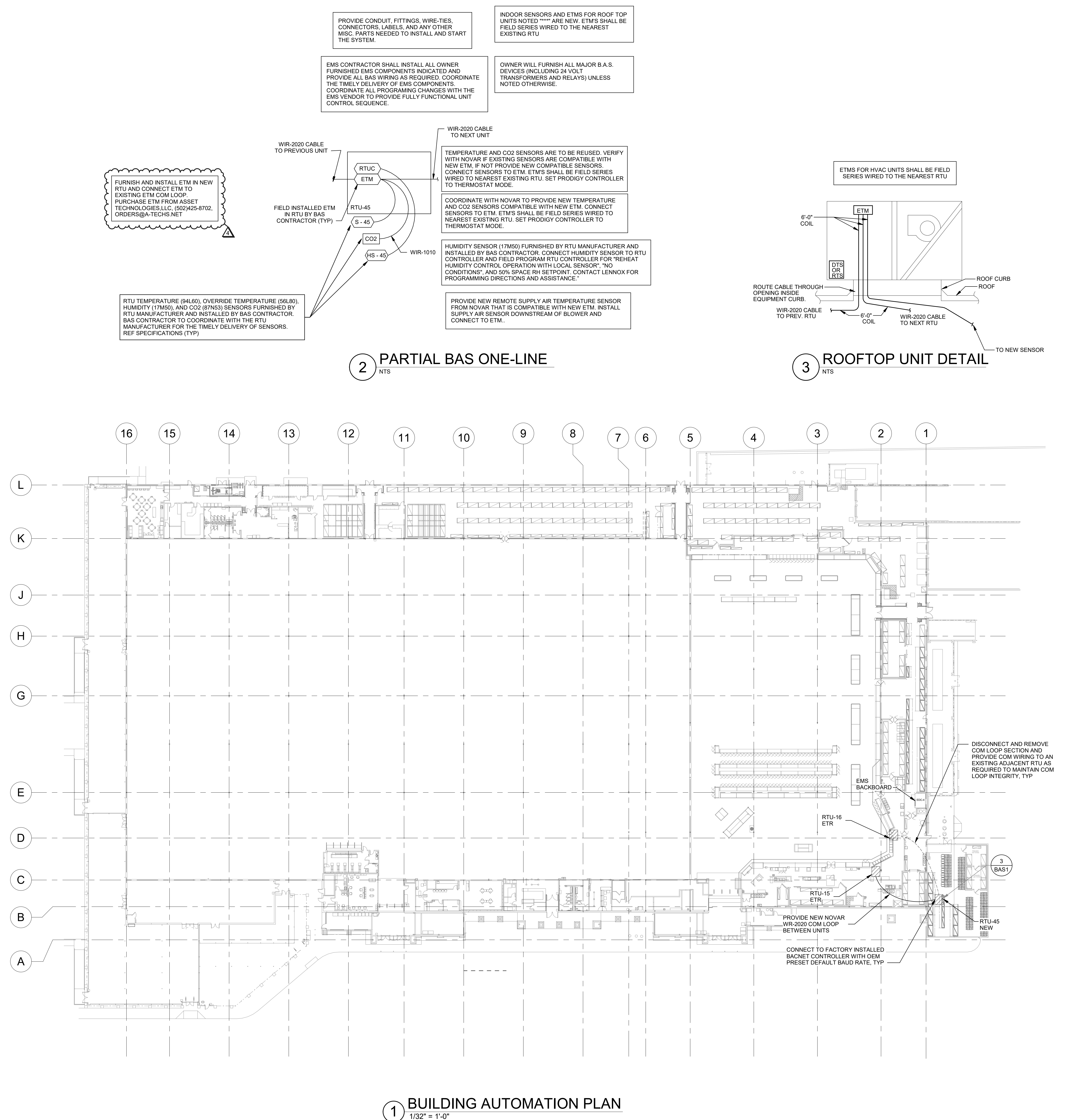


07/07/2022

DOCUMENTS THAT DO NOT HAVE THE ARCHITECT OR ENGINEER OF RECORD SEAL AND SIGNATURE SHALL BE CONSIDERED NOT FOR CONSTRUCTION

**BUILDING AUTOMATION SYSTEM PLAN**

SHEET:  
**BAS1**



PROVIDE CONDUIT, FITTINGS, WIRE-TIES, CONNECTORS, LABELS, AND ANY OTHER MISC. PARTS NEEDED TO INSTALL AND START THE SYSTEM.

INDOOR SENSORS AND ETMS FOR ROOF TOP UNITS NOTED \*\*\*\* ARE NEW. ETMS SHALL BE FIELD SERIES WIRED TO THE NEAREST EXISTING RTU

EMS CONTRACTOR SHALL INSTALL ALL OWNER FURNISHED EMS COMPONENTS INDICATED AND PROVIDE ALL BAS WIRING AS REQUIRED. COORDINATE THE TIMELY DELIVERY OF EMS COMPONENTS. COORDINATE ALL PROGRAMMING CHANGES WITH THE EMS VENDOR TO PROVIDE FULLY FUNCTIONAL UNIT CONTROL SEQUENCE.

OWNER WILL FURNISH ALL MAJOR B.A.S. DEVICES (INCLUDING 24 VOLT TRANSFORMERS AND RELAYS) UNLESS NOTED OTHERWISE.

FURNISH AND INSTALL ETM IN NEW RTU AND CONNECT ETM TO EXISTING ETM COM LOOP. PURCHASE ETM FROM ASSET TECHNOLOGIES, LLC. (502)425-8702. ORDERS@A-TECHS.NET

TEMPERATURE AND CO2 SENSORS ARE TO BE REUSED. VERIFY WITH NOVAR IF EXISTING SENSORS ARE COMPATIBLE WITH NEW ETM. IF NOT PROVIDE NEW COMPATIBLE SENSORS. CONNECT SENSORS TO ETM. ETMS SHALL BE FIELD SERIES WIRED TO NEAREST EXISTING RTU. SET PRODIGY CONTROLLER TO THERMOSTAT MODE.

COORDINATE WITH NOVAR TO PROVIDE NEW TEMPERATURE AND CO2 SENSORS COMPATIBLE WITH NEW ETM. CONNECT SENSORS TO ETM. ETMS SHALL BE FIELD SERIES WIRED TO NEAREST EXISTING RTU. SET PRODIGY CONTROLLER TO THERMOSTAT MODE.

HUMIDITY SENSOR (17M50) FURNISHED BY RTU MANUFACTURER AND INSTALLED BY BAS CONTRACTOR. CONNECT HUMIDITY SENSOR TO RTU CONTROLLER AND FIELD PROGRAM RTU CONTROLLER FOR REHEAT HUMIDITY CONTROL OPERATION WITH LOCAL SENSOR. "NO CONDITIONS" AND 50% SPACE RH SETPOINT. CONTACT LENNOX FOR PROGRAMMING DIRECTIONS AND ASSISTANCE.

PROVIDE NEW REMOTE SUPPLY AIR TEMPERATURE SENSOR FROM NOVAR THAT IS COMPATIBLE WITH NEW ETM. INSTALL SUPPLY AIR SENSOR DOWNSTREAM OF BLOWER AND CONNECT TO ETM.

ETMS FOR HVAC UNITS SHALL BE FIELD SERIES WIRED TO THE NEAREST RTU

**2 PARTIAL BAS ONE-LINE**

**3 ROOFTOP UNIT DETAIL**

**1 BUILDING AUTOMATION PLAN**  
1/32" = 1'-0"

NOTE: ALL WORK ON THIS SHEET IS TO BE COMPLETED BY A WALMART APPROVED CONTRACTOR

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT AS-BUILT CONDITIONS. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELVES WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

AIR-COOLED ROOFTOP UNITS

RTU CONTROLLER SHALL COMMUNICATE DIRECTLY TO THE BAS

ALL RTU ZONE SETPOINTS FROM THE BAS ARE AS FOLLOWS

Table with columns: MARK, AREA SERVED, (2) SCHEDULE, OCCUPIED COOLING SETPOINT, HEATING SETPOINT, UNOCCUPIED COOLING SETPOINT, HEATING SETPOINT, HUMIDITY SETPOINT, NOTES. Includes notes for RTU 45 and RTU 46.

DEHUMIDIFICATION OPERATION (FOR UNITS WITH HUMIDITY SETPOINT IN RTU ZONE SETPOINTS SCHEDULE) WHEN THE SPACE HUMIDITY EXCEEDS SCHEDULED RH SETPOINT...

SUPPLY FAN OPERATION FOR RTUS IDENTIFIED IN THE MECHANICAL SCHEDULE TO BE "CONT" FAN CONTROL, THE BAS SHALL ENERGIZE THE SUPPLY FAN TO OPERATE CONTINUOUSLY...

FOR RTUS IDENTIFIED IN THE MECHANICAL SCHEDULE TO BE "AUTO" FAN CONTROL, THE OEM CONTROLLER SHALL ENERGIZE THE SUPPLY FAN TO OPERATE ONLY ON A CALL FOR HEATING OR COOLING.

FOR RTUS WITH VARIABLE SPEED FAN OPERATION, THE FAN SPEED SHALL BE CONTROLLED BY THE OEM CONTROLLER BASED ON AMOUNT OF OPERATING COMPRESSOR CAPACITY. VARIABLE SPEED FAN CONTROL SHALL RANGE LINEARLY OR IN DISCRETE STAGES...

OUTSIDE AIR DAMPER OPERATION WHEN THE SUPPLY FAN IS OFF, THE OUTSIDE AIR DAMPER SHALL GO TO THE 0% OPEN POSITION.

UNLESS OPERATING IN ECONOMIZER MODE, WHEN THE SUPPLY FAN IS ON THE OUTSIDE AIR DAMPER SHALL GO TO THE MINIMUM POSITION SET BY TEST AND BALANCE PER THE OUTSIDE AIR QUANTITY ON THE MECHANICAL SCHEDULE AND IS ADJUSTABLE FROM 0 TO 100%.

ECONOMIZER COOLING OPERATION (ECONOMIZER ENABLED) UPON AN ECONOMIZER ENABLE SIGNAL FROM THE BAS TO THE OEM CONTROLLER AND A CALL FOR COOLING BASED ON SPACE TEMPERATURE SENSOR INPUT TO THE OEM CONTROLLER...

IF THE SPACE TEMPERATURE INCREASES TO >= 0.5 DEG ABOVE SPACE COOLING SETPOINT AND THE ECONOMIZER DAMPER HAS BEEN 100% OPEN FOR A MINIMUM OF 10 MINUTES, THE OEM CONTROLLER SHALL ENERGIZE FIRST STAGE MECHANICAL COOLING AND MAINTAIN THE OUTSIDE AIR DAMPER AT THE 100% OPEN POSITION.

IF THE SPACE TEMPERATURE CONTINUES TO INCREASE AFTER MECHANICAL COOLING IS ENERGIZED, THE OEM CONTROLLER SHALL CONTINUE TO ENERGIZE ADDITIONAL STAGES OF MECHANICAL COOLING IN 0.5 DEG F INCREMENTS OF SPACE TEMPERATURE, IF AVAILABLE.

IF THE CUTOFF TEMPERATURE FOR ANY STAGE OF COOLING IS NOT REACHED WITHIN 15 MINUTES, THE NEXT STAGE OF COOLING SHALL BE ENERGIZED TO SATISFY THE CUTOFF TEMPERATURE.

COOLING STAGES SHALL DE-ENERGIZE AS THE COMPRESSOR CUTOFF TEMPERATURES ARE SATISFIED IN 0.5 DEGREE INCREMENTS.

Table with columns: STAGE #, ON, OFF. Rows for Economizer stages 1, 2, 3 & 4.

COOLING OPERATION (ECONOMIZER DISABLED)

IF THERE IS NO ECONOMIZER ENABLE SIGNAL FROM THE BAS TO THE OEM CONTROLLER AND UPON A CALL FOR COOLING BASED ON THE SPACE TEMPERATURE SENSOR INPUT TO THE OEM CONTROLLER, THE OEM CONTROLLER SHALL ENERGIZE FIRST STAGE MECHANICAL COOLING AND MODULATE THE OUTSIDE AIR DAMPER TO THE MINIMUM POSITION.

IF THE SPACE TEMPERATURE CONTINUES TO INCREASE AFTER MECHANICAL COOLING IS ENERGIZED, THE OEM CONTROLLER SHALL CONTINUE TO ENERGIZE ADDITIONAL STAGES OF MECHANICAL COOLING IN 0.5 DEG INCREMENTS OF SPACE TEMPERATURE, IF AVAILABLE.

IF THE CUTOFF TEMPERATURE FOR ANY STAGE OF COOLING IS NOT REACHED WITHIN 15 MINUTES, THE NEXT STAGE OF COOLING SHALL BE ENERGIZED TO SATISFY THE CUTOFF TEMPERATURE.

COOLING STAGES SHALL DE-ENERGIZE AS THE COMPRESSOR CUTOFF TEMPERATURES ARE SATISFIED IN 0.5 DEGREE INCREMENTS.

Table with columns: STAGE #, ON, OFF. Rows for Cooling stages 1, 2, 3, 4.

HEATING OPERATION UPON A CALL FOR HEATING BASED ON THE SPACE TEMPERATURE SENSOR INPUT TO THE OEM CONTROLLER, THE OEM CONTROLLER SHALL ENERGIZE FIRST STAGE HEATING AND MODULATE THE OUTSIDE AIR DAMPER TO THE MINIMUM POSITION.

IF THE SPACE TEMPERATURE CONTINUES TO DECREASE AFTER ENERGIZING HEATING, THE OEM CONTROLLER SHALL CONTINUE TO ENERGIZE ADDITIONAL STAGES HEATING IN 0.5 DEG INCREMENTS OF SPACE TEMPERATURE, IF AVAILABLE.

IF THE CUTOFF TEMPERATURE FOR ANY STAGE OF HEATING IS NOT REACHED WITHIN 15 MINUTES, THE NEXT STAGE OF HEATING SHALL BE ENERGIZED TO SATISFY THE CUTOFF TEMPERATURE.

HEATING STAGES SHALL DE-ENERGIZE AS THE HEATER CUTOFF TEMPERATURES ARE SATISFIED IN 0.5 DEGREE INCREMENTS.

Table with columns: STAGE #, ON, OFF. Rows for Heating stages 1, 2, 3, 4.

SMOKE DETECTORS

FOR UNITS EQUIPPED WITH SMOKE DETECTORS (DUCT MOUNTED OR SPACE MOUNTED) THE SMOKE DETECTOR SHALL SHUT-DOWN THE UNIT UPON SMOKE DETECTOR ACTIVATION. IF REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION...

RTU PROTECTION

ALL EQUIPMENT SAFETY SEQUENCES, I.E. COMPRESSOR RESET, GAS BURNER RESET, ETC SHALL BE CONTROLLED BY THE OEM CONTROLLER.

ALARMS

THE RTU CONTROLLER SHALL COMMUNICATE ALL RTU ERROR CODES TO THE BAS.

Table with columns: ERROR CODE, FROM OEM CONTROLLER TO BAS. Rows for Smoke Alarm, Air Flow Switch, Input Error, Zone Sensor Problem.

COMMUNICATION DATA POINT LIST

THE RTU CONTROLLER AND BAS SHALL TRANSFER THE COMMUNICATION DATA POINTS BASED ON THE FOLLOWING SCHEDULE.

Large table with columns: OBJECT ID, OBJECT NAME, UNITS. Divided into sections: LENNOX BACnet COMMUNICATION DATA POINT LIST, FROM BAS TO RTU CONTROLLER - ANALOG OUTPUTS, FROM RTU CONTROLLER TO BAS - ANALOG INPUTS.

ECONOMIZER OPERATION (BACNET CONTROLLER WITH MUNTERS AHUS COMMUNICATING TO CONTROLLER)

THE BAS SHALL SEND AN ECONOMIZER ENABLE SIGNAL TO THE OEM CONTROLLER WHEN BOTH OF FOLLOWING OUTSIDE AIR CONDITIONS ARE MET:

OUTSIDE DRY BULB TEMPERATURE > 5 DEG F AND < 68 DEG F
OUTSIDE DEWPOINT TEMPERATURE > 5 DEG DP AND < 48 DEG DP

ECONOMIZER OPERATION (ES1 WITHOUT MUNTERS AHUS AND ENTHALPY WIRE FROM EXISTING CONTROLLER)

THE ES1 SHALL SEND AN ECONOMIZER ENABLE SIGNAL TO THE RTU OEM CONTROLLER WHEN AN ECONOMIZER ENABLE SIGNAL IS RECEIVED FROM THE LINGO XE/EP2 CONTROLLER THRU XIO-44-B ON BACNET.

THE LINGO XE/EP2 CONTROLLER SHALL SEND AN ECONOMIZER ENABLE SIGNAL WHEN BOTH THE FOLLOWING OUTSIDE AIR CONDITIONS ARE MET:

OUTSIDE DRY BULB TEMPERATURE > 5 DEG F AND < 68 DEG F
OUTSIDE DEWPOINT TEMPERATURE > 5 DEG DP AND < 48 DEG DP

ECONOMIZER OPERATION (XCM2OR WITHOUT MUNTERS AHUS AND ENTHALPY WIRE FROM EXISTING CONTROLLER)

THE XCM2OR SHALL SEND AN ECONOMIZER ENABLE SIGNAL TO THE RTU OEM CONTROLLER WHEN AN ECONOMIZER ENABLE SIGNAL IS RECEIVED FROM THE LINGO XE/EP2 CONTROLLER ON INPUT TERMINAL D11.

THE LINGO XE/EP2 CONTROLLER SHALL SEND AN ECONOMIZER ENABLE SIGNAL WHEN BOTH THE FOLLOWING OUTSIDE AIR CONDITIONS ARE MET:

OUTSIDE DRY BULB TEMPERATURE > 5 DEG F AND < 68 DEG F
OUTSIDE DEWPOINT TEMPERATURE > 5 DEG DP AND < 48 DEG DP

ECONOMIZER OPERATION (WITHOUT MUNTERS AHUS OR OUTDOOR DEWPOINT SENSOR COMMUNICATING TO CONTROLLER (LIQUOR BOX))

UPON AN ECONOMIZER ENABLE SIGNAL FROM THE OEM CONTROLLER BASED ON THE OUTDOOR SINGLE ENTHALPY SENSOR 18mA SETTING AND A CALL FOR COOLING BASED ON SPACE TEMPERATURE SENSOR INPUT TO THE OEM CONTROLLER...

IF THE SPACE TEMPERATURE INCREASES TO >= 0.5 DEG ABOVE SPACE COOLING SETPOINT, THE OEM CONTROLLER SHALL ENERGIZE FIRST STAGE MECHANICAL COOLING AND MODULATE THE DAMPERS TO MAINTAIN 65 F SUPPLY AIR TEMPERATURE.

IF THE SPACE TEMPERATURE CONTINUES TO INCREASE AFTER MECHANICAL COOLING IS ENERGIZED, THE OEM CONTROLLER SHALL CONTINUE TO ENERGIZE ADDITIONAL STAGES OF MECHANICAL COOLING IN 0.5 DEG F INCREMENTS OF SPACE TEMPERATURE, IF AVAILABLE.

IF THE CUTOFF TEMPERATURE FOR ANY STAGE OF COOLING IS NOT REACHED WITHIN 15 MINUTES, THE NEXT STAGE OF COOLING SHALL BE ENERGIZED TO SATISFY THE CUTOFF TEMPERATURE.

COOLING STAGES SHALL DE-ENERGIZE AS THE COMPRESSOR CUTOFF TEMPERATURES ARE SATISFIED IN 0.5 DEGREE INCREMENTS.



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CONSULTANTS

Walmart logo, PUYALLUP, WA 98374, 310 31ST AVENUE SE, PUYALLUP, WA 98374, STORE NO. 2403 - 278, WALGPP402, PHOTO: 10Z GROCERY EXP, JOB NUMBER:

ISSUE BLOCK table with columns for Issue No., Description, Status, Date.

CHECKED BY: RRN
DRAWN BY: VM
PROTO CYCLE: 07/30/21
DOCUMENT DATE: 09/08/21



DOCUMENTS THAT DO NOT HAVE THE ARCHITECT OR ENGINEER OF RECORD SEAL AND SIGNATURE SHALL BE CONSIDERED NOT FOR CONSTRUCTION

BUILDING AUTOMATION SYSTEM

SHEET: BAS2

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT AS-BUILT CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WORKERS WITH THIS KNOWLEDGE.

### BAS EQUIPMENT SALVAGE REQUIREMENTS

11.02.19  
ALL DEMOLISHED NOVAR BAS EQUIPMENT SHALL BE RETURNED TO WALMART MECHANICAL SERVICES CONSTRUCTION MANAGER. EQUIPMENT TO BE RETURNED INCLUDES: EXECUTIVE CONTROLLER(S), IOM(S), CIM(S), COM(S), ETC. PROVIDE DOCUMENTATION FOR ALL EQUIPMENT REMOVED IN ACCORDANCE WITH SPECIFICATIONS AND REQUIRED CLOSE-OUT DOCUMENTS.

### GENERAL REFRIGERATION BAS NOTES

- 03.12.19
- BAS CONTRACTOR SHALL CONTACT THE BAS SUPPLIER(S) TO OBTAIN A CURRENT MODULE CONFIGURATION PRINTOUT BEFORE TERMINATING SENSOR LEADS AT INPUT MODULES. THE REQUEST FOR THE CONFIGURATION PRINTOUT SHALL BE MADE PRIOR TO THE INSTALLATION OF BAS CABLES. WIRING TERMINATIONS SHALL BE LANDED ACCORDING TO THE BAS SUPPLIER CONFIGURATION SHEETS.
  - BAS CONTRACTOR SHALL PROVIDE COMPLETED REFRIGERATION SENSOR INPUT VERIFICATION FORMS TO THE BAS SUPPLIER(S) AT THE BEGINNING OF THE REFRIGERATION EQUIPMENT STARTUP. BAS INSTALLER SHALL PROVIDE ASSISTANCE TO THE BAS SUPPLIER(S) FOR SPOT CHECKING OF SENSORS FOR ACCURACY.
  - ALL BAS CABLE ON THE SALES FLOOR SHALL BE ROUTED IN CONDUIT AND CONCEALED FROM VIEW AND ROUTED ALONGSIDE OTHER PIPING OR CONDUIT AS MUCH AS POSSIBLE.
  - BAS CONTRACTOR SHALL BE PRESENT AND AVAILABLE TO RESOLVE ISSUES AND PROVIDE REFRIGERATION STARTUP ASSISTANCE UNTIL RELEASED BY THE BAS SUPPLIER AND WALMART MECHANICAL CONSTRUCTION MANAGER.
  - DURING THE REFRIGERATION STARTUP, BAS CONTRACTOR SHALL COMPLETE ALL UNRESOLVED REFRIGERATION WORK PRIOR TO WORKING ON OTHER BAS INSTALLATION ITEMS.
  - WHEN THE BAS SUPPLIER IS NOT SCHEDULED TO PERFORM THE ON SITE REFRIGERATION STARTUP, THE BUILDING AUTOMATION CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL CHECKS AND TEST TO ENSURE A FULLY FUNCTIONAL REFRIGERATION CONTROL SYSTEM. CONTACT THE BAS SUPPLIER FOR THE BLANK TEST VERIFICATION FORMS AND INSTRUCTIONS FOR COMPLETING. ALL COMPLETED TEST VERIFICATION FORMS SHALL BE RETURNED TO THE WALMART MECHANICAL CONSTRUCTION MANAGER.
  - REFER TO ARCHITECTURAL DRAWINGS FOR PIPING INSTALLATION AND SEALING REQUIREMENTS FOR DEVICES SHOWN ON COOLER/FREEZER PANELS. DO NOT INSTALL PIPING WITHIN COOLER/FREEZER PANELS.
  - ROUTE ALL UTILITY SERVICE LINES (PIPES AND CONDUIT) WITHIN STUD WALLS WHEREVER POSSIBLE ON COOLER/FREEZER PANELS IN FOOD PREP AREAS WHERE UTILITIES MUST BE EXPOSED, CONTRACTOR TO HAVE THE OPTION OF THE FOLLOWING:
    - SURFACE MOUNT UTILITIES WITH NON-CORROSIVE ANCHORS. SEAL BOTH SIDES OF PIPE/CONDUIT TO PANEL CONTINUOUSLY WITH SEALANT.
    - INSTALL UTILITIES 1/2" OFF FACE OF PANEL TO ALLOW FOR CLEANING. USE ONLY NON-CORROSIVE MATERIALS FOR SPACERS AND ANCHORS.
    - COVER UTILITIES WITH 20 GAUGE STAINLESS STEEL BENT PLATES MOUNTED TO WALL WITH NON-CORROSIVE ANCHORS. APPLY CONTINUOUS SEALANT ALONG EDGES AND JOINTS.
  - REFERENCE ARCHITECTURAL DEMOLITION PLANS FOR FULL EXTENT OF DEMOLITION WORK REQUIRED.

### REFRIG BAS SYMBOLS

EZE	REFRIGERATION NETWORK GATEWAY
ES1	REFRIGERATION EXECUTIVE CONTROLLER
BAS	BUILDING AUTOMATION SYSTEM
TEMP	TEMPERATURE
VFD	VARIABLE FREQUENCY DRIVE
BACKBOARD	BACKBOARD
LTA-X	REFRIGERATION CIRCUIT
P	PRESSURE TRANSDUCER
S	TEMPERATURE SENSOR
DTS	DUAL TEMP SWITCH
RIB	RELAY IN BOX
C-##	CONTACTOR
RIB/C-##	RELAY IN BOX & CONTACTOR PANEL
LDP	LEAK DETECTION PANEL
DXL	CPC DXL CASE/CIRCUIT CONTROLLER
CLCD	CPC CONTROL LINK CASE DISPLAY
MF16	CPC MULTIFLEX 16AI
MF ESR	CPC MULTIFLEX ELECTRONIC STEPPER REGULATOR
AIB XM-101	DANFOSS INPUT MODULE
EKC	DANFOSS CASE MANAGEMENT SYSTEM MODULE/ENCLOSURE
AK2-CM	DANFOSS COMMUNICATIONS MODULE
KE2	KE2 RE2 COIL CONTROLLER
KE2S	KE2 NETWORK SWITCH
XCM	EMERSON X-LINE RCU CONTROLLER
CIM	NOVAR CASE INPUT MODULE
CMS	NOVAR CASE MANAGEMENT SYSTEM
RCC	NOVAR REFRIGERATION CASE/CIRCUIT CONTROLLER
MinIQ XIO	NOVAR INPUT/OUTPUT MODULE
SSC	SPORLAN REFRIGERATION CASE/CIRCUIT CONTROLLER
SGR	SPORLAN GATEWAY ROUTER
SNS	SPORLAN NETWORK SWITCH
---	NEW EQUIPMENT
---	EXISTING EQUIPMENT
---	FACILITY INSTALLED EQUIPMENT
---	EQUIPMENT TO BE DEMOLISHED

STIPULATION FOR REUSE  
THIS DRAWING WAS PREPARED FOR USE BY A REFRIGERATION CONTRACTOR FOR THE PROJECT SHOWN ON THESE SHEETS. IT IS THE RESPONSIBILITY OF THE USER TO OBTAIN ALL NECESSARY PERMITS AND TO VERIFY ALL REGULATORY REQUIREMENTS FOR THE PROJECT. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND TO VERIFY ALL REGULATORY REQUIREMENTS FOR THE PROJECT. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND TO VERIFY ALL REGULATORY REQUIREMENTS FOR THE PROJECT.

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DOCUMENT DATE: 09/08/21

WILLIAM R. KRANER  
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Jul 07, 2022

BUILDING AUTOMATION SYSTEM REFRIGERATION PLANS  
novar.

SHEET: BAS3

### XIO-80 (XIO-02)

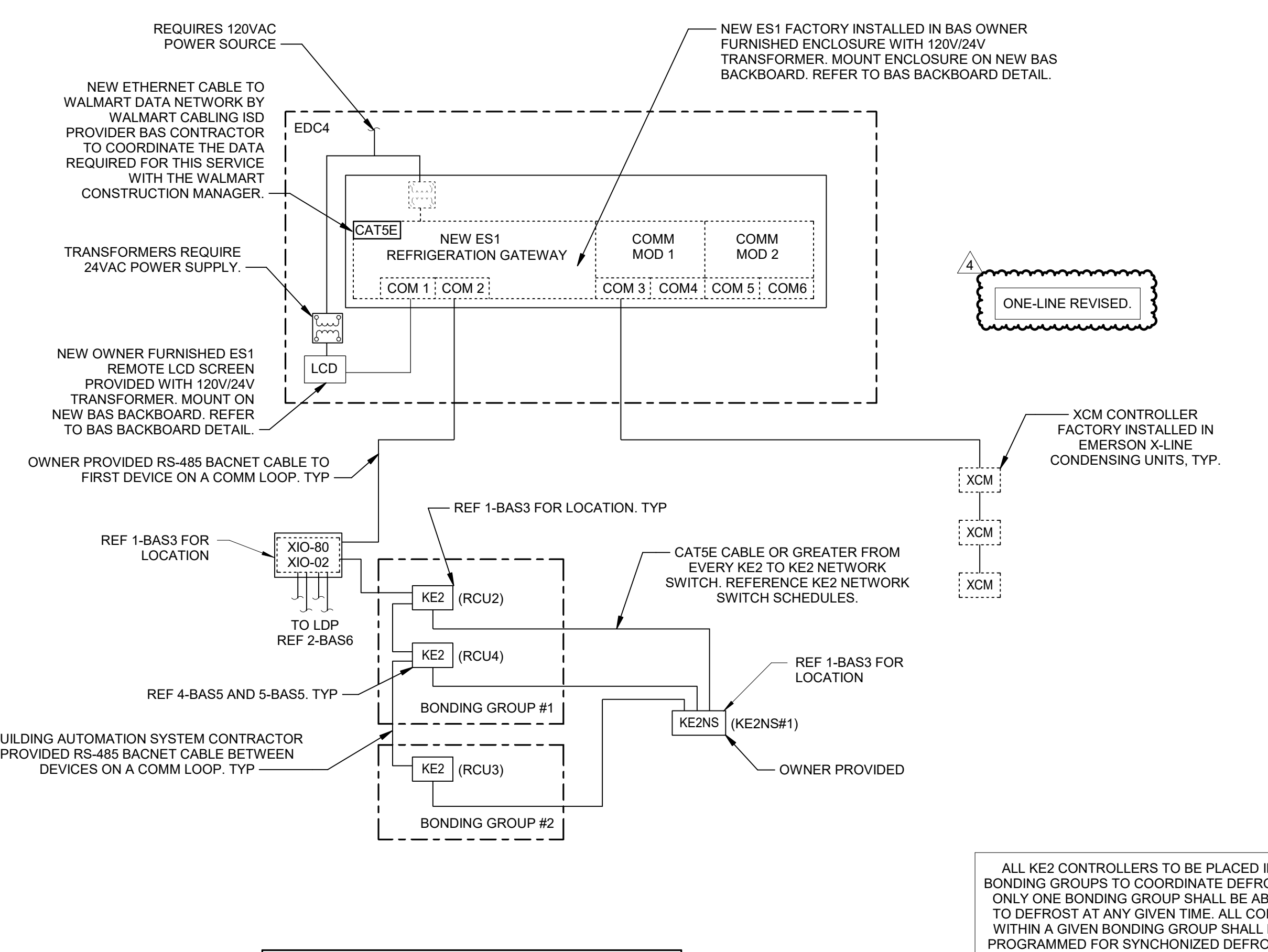
UNIVERSAL INPUTS/ANALOG OUTPUTS

U1/A1	LDP PICKUP COOLER (AI)
U2/A2	LDP PICKUP COOLER (DI)
U3/A3	LDP PICKUP FREEZER (AI)
U4/A4	LDP PICKUP FREEZER (DI)
U5/A5	SPARE
U6/A6	SPARE
U7/A7	SPARE
U8/A8	SPARE

### KE2 NETWORK SWITCH #1 (PART # 21001)

INPUT1	SPARE
INPUT2	RCU2
INPUT3	RCU3
INPUT4	RCU4
INPUT5	SPARE
INPUT6	SPARE
INPUT7	SPARE
INPUT8	SPARE

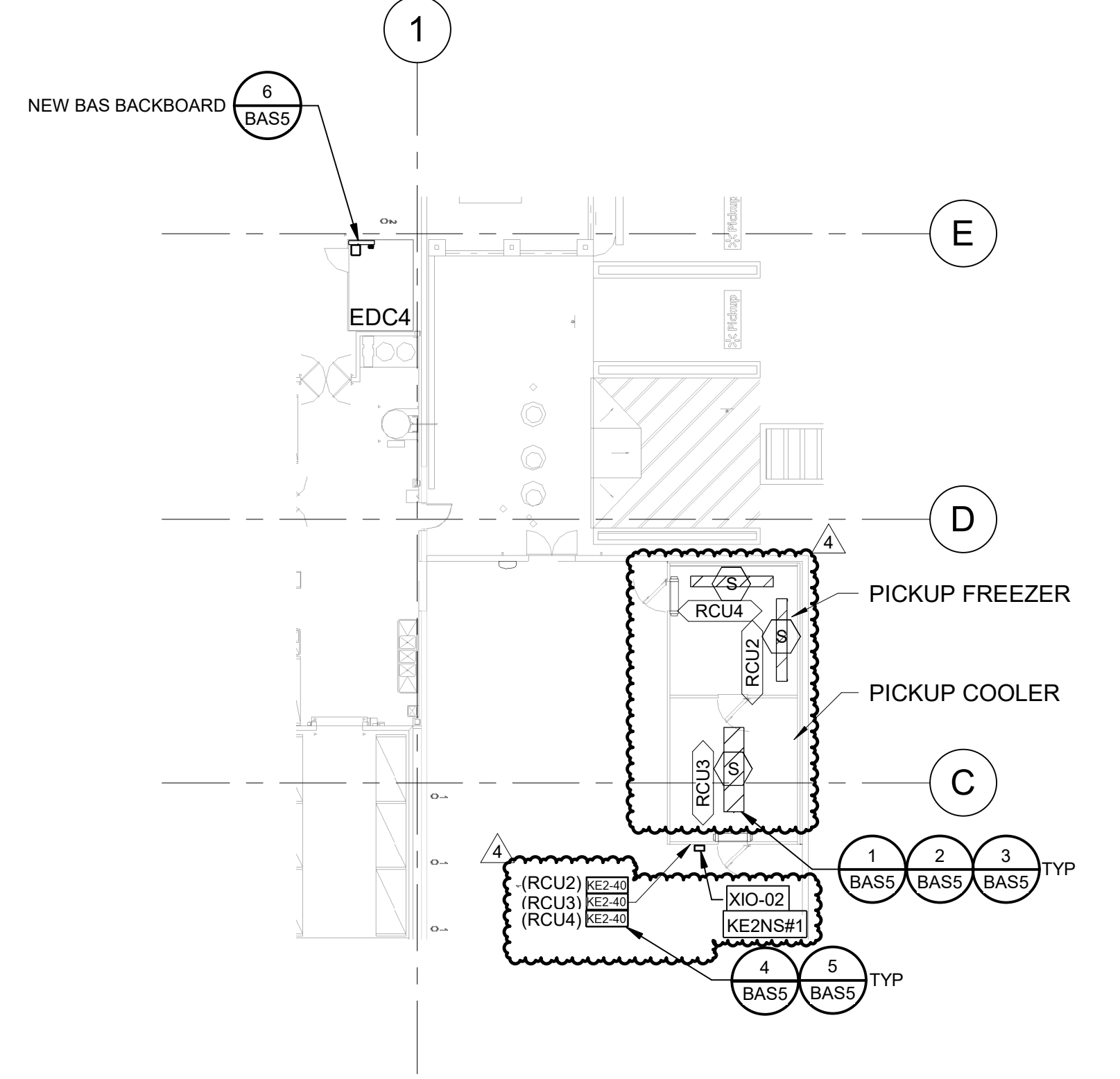
KE2 NETWORK SWITCH REQUIRES 120V POWER. PROVIDE DUPLEX RECEPTACLE FOR EACH SWITCH SHOWN.



ES1 COMMUNICATION PORT	
COM1	LCD / BACNET LOOP
COM2	XIO/KE2
COM MODULE 1 COMMUNICATION PORT	
COM3	XCM
COM4	OPEN

### 2 REFRIGERATION BAS ONE-LINE DIAGRAM (NOVAR/SPORLAN)

NOTE: 1.) NOT ALL CONNECTIONS SHOWN ON THIS SCHEDULE ARE PRESENT AT EACH REFRIGERATION GATEWAY. REFER TO ONE-LINE DIAGRAM FOR CONNECTIONS SPECIFIC TO EACH REFRIGERATION GATEWAY.



### 1 PICKUP REFRIGERATION BAS PLAN

1/16" = 1'-0"

24 HOURS PRIOR TO SHUTTING DOWN ANY REFRIGERATION SYSTEMS, HVAC SYSTEMS OR BUILDING AUTOMATION CONTROL SYSTEMS, SEND EMAIL TO NSR@WALMART.COM. THE EMAIL SHALL STATE WHAT, WHY, AND WHEN IT IS BEING SHUT DOWN AND HOW LONG IT IS ANTICIPATED TO BE SHUT DOWN. THEN SEND A FOLLOW UP EMAIL TO NSR@WALMART.COM AFTER THE WORK IS COMPLETE AND THE SYSTEM IS BACK UP AND RUNNING.

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT 'AS-BUILT' CONDITIONS. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELVES WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.



**STIPULATION FOR REUSE**  
 THIS DRAWING WAS PREPARED FOR USE ON A SPECIFIC PROJECT AND SITE. IT IS NOT TO BE REUSED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF THE CONSULTANT. ANY REUSE OF THIS DRAWING FOR ANY OTHER PROJECT IS AT THE USER'S SOLE RISK. THE CONSULTANT ASSUMES NO LIABILITY FOR DAMAGES OF ANY KIND, INCLUDING CONSEQUENTIAL DAMAGES, ARISING FROM THE REUSE OF THIS DRAWING FOR ANY OTHER PROJECT. THIS AGREEMENT SHALL BE GOVERNED BY THE LAWS OF THE STATE OF ARIZONA.

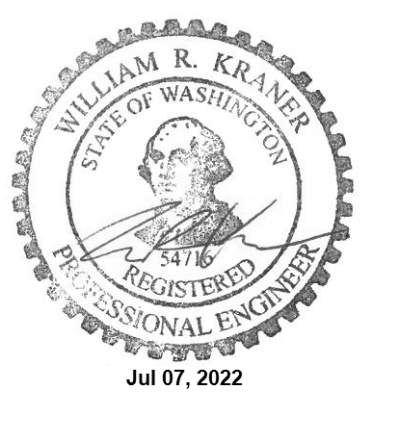
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**BUILDING AUTOMATION SYSTEM REFRIGERATION SCHEDULES**

SHEET: **BAS4**

**RCU2 DISCHARGE AIR TEMPERATURE AND DEFROST PARAMETERS**

CIRCUIT #	APPLICATION	MODEL NUMBER	MANUFACTURER	EQUIPMENT TAG NUMBER	EQUIPMENT CUTSHEET DATE	DISCHARGE AIR TEMP SETTINGS FOR CASES/ RETURN AIR TEMP SETTING FOR WALK IN BOXES			DEFROST					DEFROST SCHEDULE	
						MANUFACTURER TARGET (°F)	OPERATING SETPOINT (°F)	DUAL TEMP TARGET (°F)	SUPERHEAT SETPOINT (°F)	DEFROST TYPE	FREQUENCY PER DAY	MAX DURATION (MIN)	TERMINATION TEMP (°F)		DRIP TIME (MIN)
RCU2	1/2 Pickup Freezer W.I.	--	Krack	--	--	-10	-10	-	6-10	EL	##	45	55	3	##

**RCU3 DISCHARGE AIR TEMPERATURE AND DEFROST PARAMETERS**

CIRCUIT #	APPLICATION	MODEL NUMBER	MFR	EQUIPMENT TAG NUMBER	EQUIPMENT CUTSHEET DATE	DISCHARGE AIR TEMP SETTINGS FOR CASES/ RETURN AIR TEMP SETTING FOR WALK IN BOXES			DEFROST					DEFROST SCHEDULE	
						MANUFACTURER TARGET (°F)	OPERATING SETPOINT (°F)	DUAL TEMP TARGET (°F)	SUPERHEAT SETPOINT (°F)	DEFROST TYPE	FREQUENCY PER DAY	MAX DURATION (MIN)	TERMINATION TEMP (°F)		DRIP TIME (MIN)
RCU3	Pickup Cooler W.I.	--	Krack	--	--	34	34	-	6-10	EL	##	45	50	0	##

**RCU4 DISCHARGE AIR TEMPERATURE AND DEFROST PARAMETERS**

CIRCUIT #	APPLICATION	MODEL NUMBER	MFR	EQUIPMENT TAG NUMBER	EQUIPMENT CUTSHEET DATE	DISCHARGE AIR TEMP SETTINGS FOR CASES/ RETURN AIR TEMP SETTING FOR WALK IN BOXES			DEFROST					DEFROST SCHEDULE	
						MANUFACTURER TARGET (°F)	OPERATING SETPOINT (°F)	DUAL TEMP TARGET (°F)	SUPERHEAT SETPOINT (°F)	DEFROST TYPE	FREQUENCY PER DAY	MAX DURATION (MIN)	TERMINATION TEMP (°F)		DRIP TIME (MIN)
RCU4	1/2 Pickup Freezer W.I.	--	Krack	--	--	-8	-8	-	6-10	EL	##	45	55	3	##

**NOTES:**  
 1) Case TXV Target Superheat shall be set per RCM Cutsheets. TYP of all cases.  
 2) Walk-In Coil TXV Target Superheat shall be set per RSM recommendations. TYP of all Walk-In Coils.

BAS WILL ALLOW ONLY TWO DEFROST CIRCUITS PER REFRIGERATION SYSTEM TO RUN CONCURRENTLY. DEFROST PANELS ARE SIZED FOR THE TWO LARGEST DEFROST CIRCUITS PER REFRIGERATION SYSTEM OCCURRING ON EACH PANEL PLUS ALL CONTINUOUS LOAD. NON-COINCIDENT DEFROST LOADS ARE NOT INCLUDED IN THE TOTAL

## - TEMPERATURE AND DEFROST CONTROLLED VIA KE2

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELVES WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

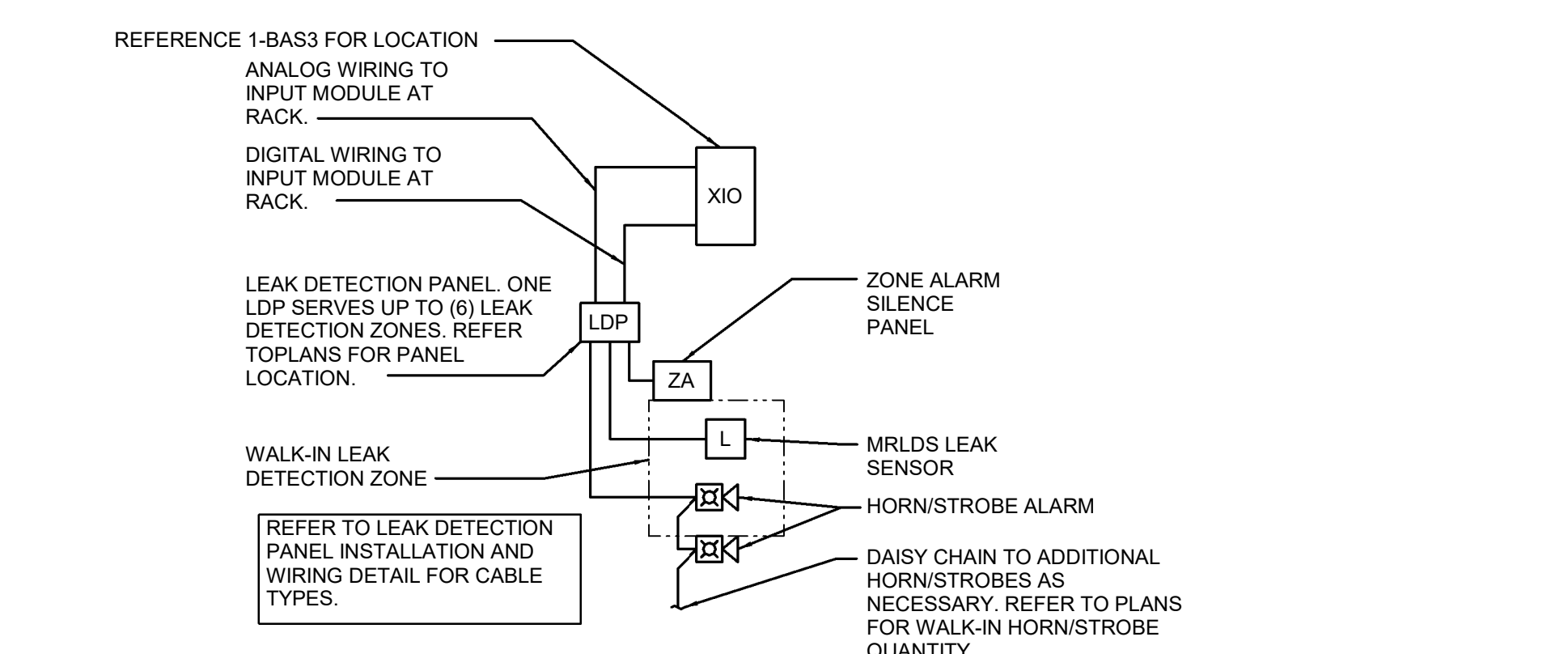
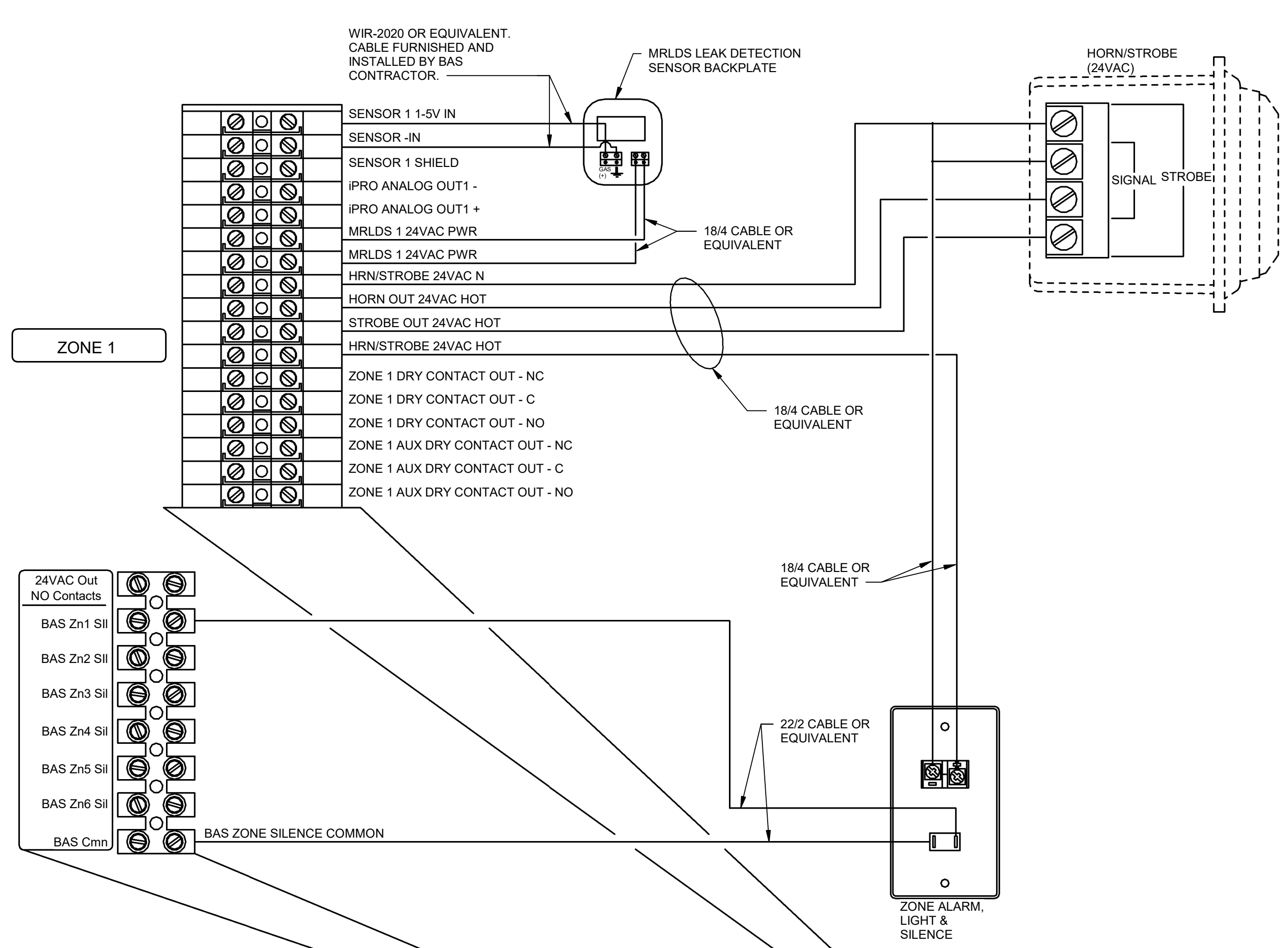


**LEAK DETECTION SYMBOLS**

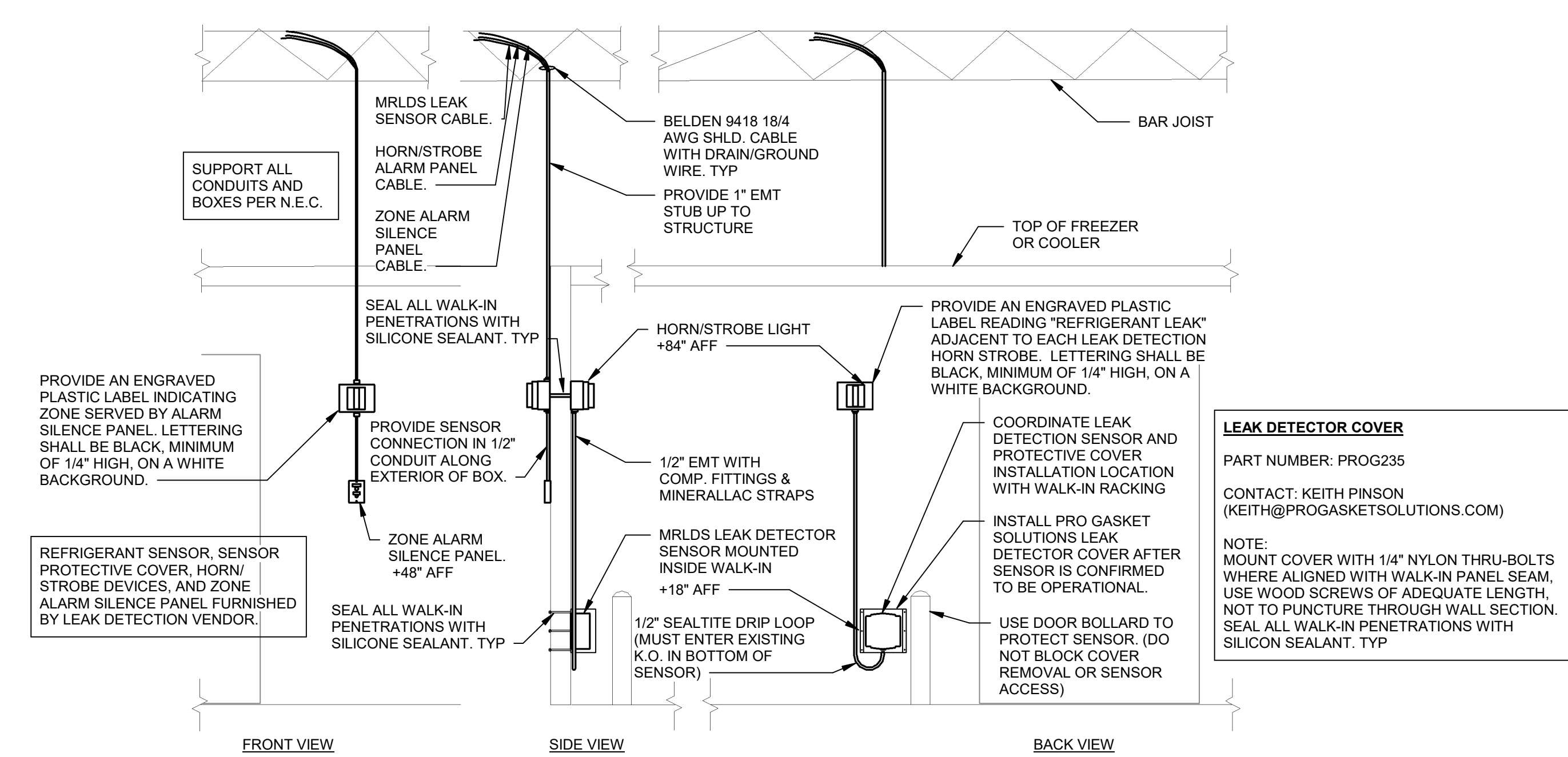
12-28-12	AUDIO/VISUAL ALARM
HS	HORN AND STROBE INDICATOR
LDP	LEAK DETECTION PANEL
L	LEAK DETECTION SENSOR
ZA	ZONE ALARM SILENCE PANEL

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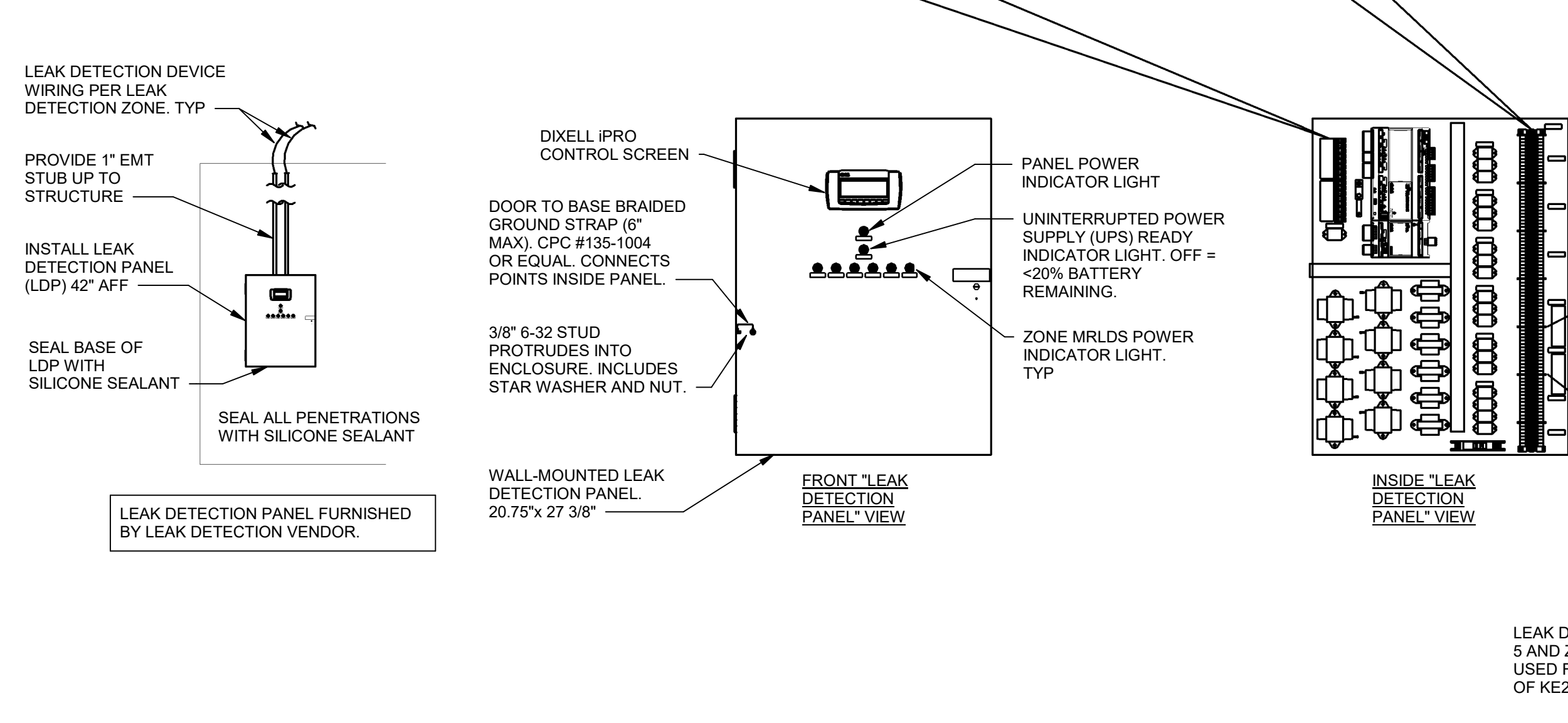
**REPEAT PER ZONE**



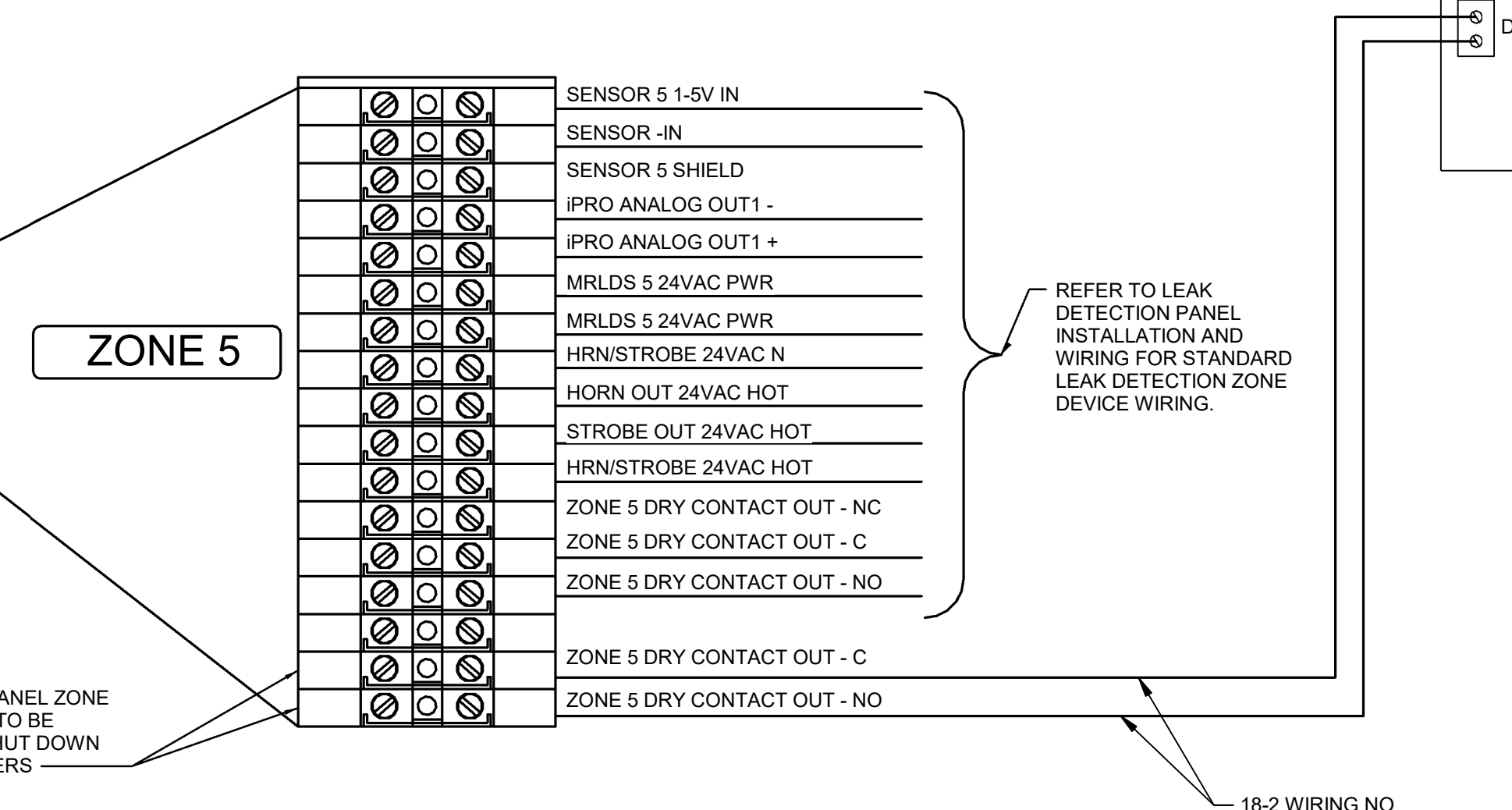
**5 LEAK DETECTION ZONE DEVICES ONE-LINE DIAGRAM**



**4 COOLER/FREEZER LEAK DETECTION DEVICE MOUNTING**



**TYPICAL OF ZONE 5 AND ZONE 6 ONLY**



**3 LEAK DETECTION PANEL INSTALLATION AND WIRING TO KE2 CONTROLLERS**

**LEAK ALARM AND CONTROL SEQUENCE OF OPERATIONS**

11.02.15

REFRIGERANT LEAK CONTROL SEQUENCE OF OPERATION FOR COOLERS AND FREEZERS:

THE LEAK DETECTION CONTROL MODULES, UPON REGISTERING A CONCENTRATION THAT IS: ONE-HALF OF THE IDLH OR AT THE OEL, WHICHEVER IS LESS, SHALL:

- ACTIVATE VISUAL AND AUDIBLE ALARMS FOR THE ZONE INDICATING THE LEAK
- ENABLE AN AUTOMATIC SHUTDOWN OF THE LHSV AND EPR TO ISOLATE THE REFRIGERANT FLOW IN THE CIRCUIT IN ALARM.

AUDIBLE / VISUAL DEVICES INSIDE COOLERS AND FREEZERS SHALL BE INSTALLED IN WEATHERPROOF JUNCTION BOXES, REFERENCE LEAK DETECTOR INSTALLATION DETAIL.

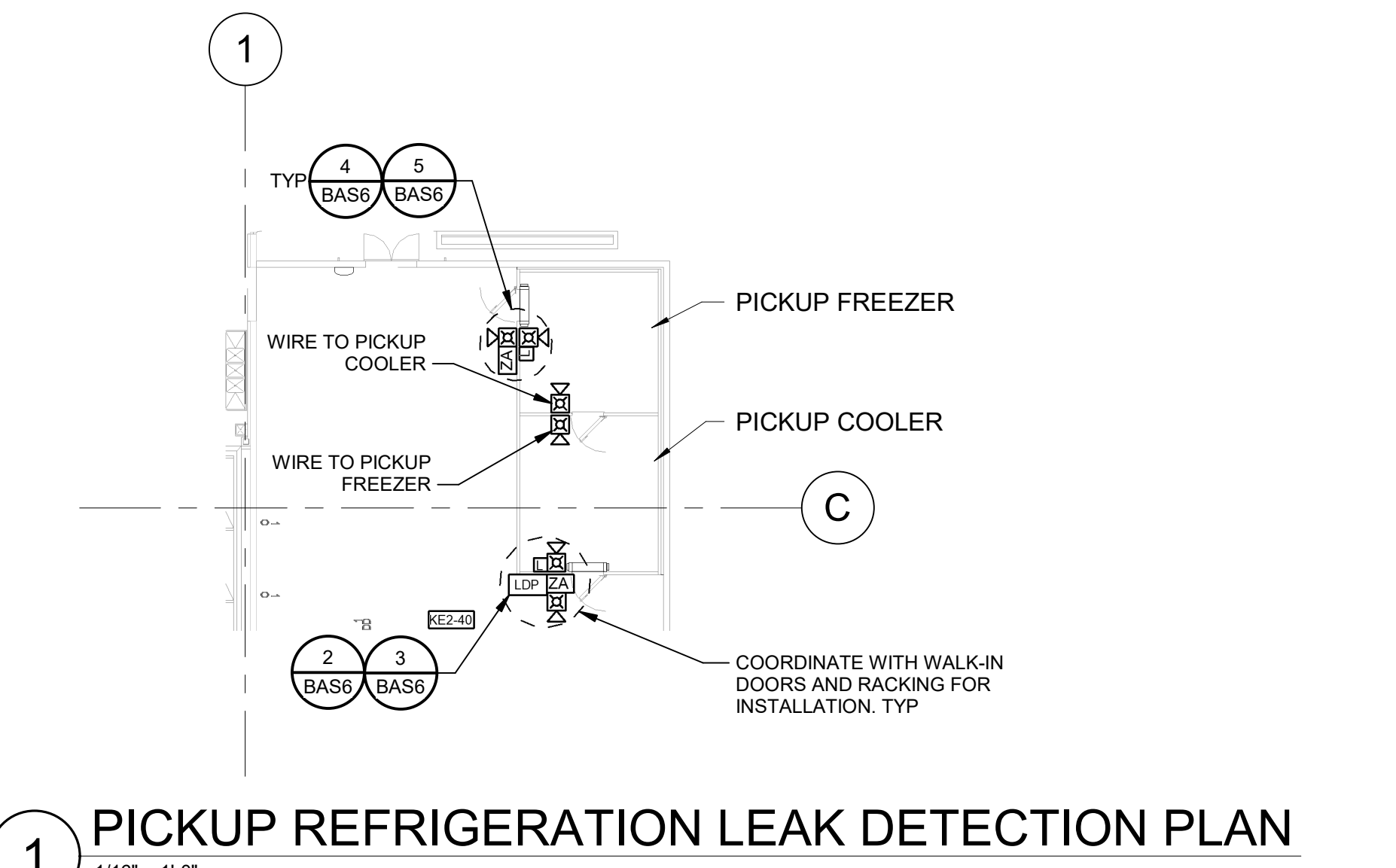
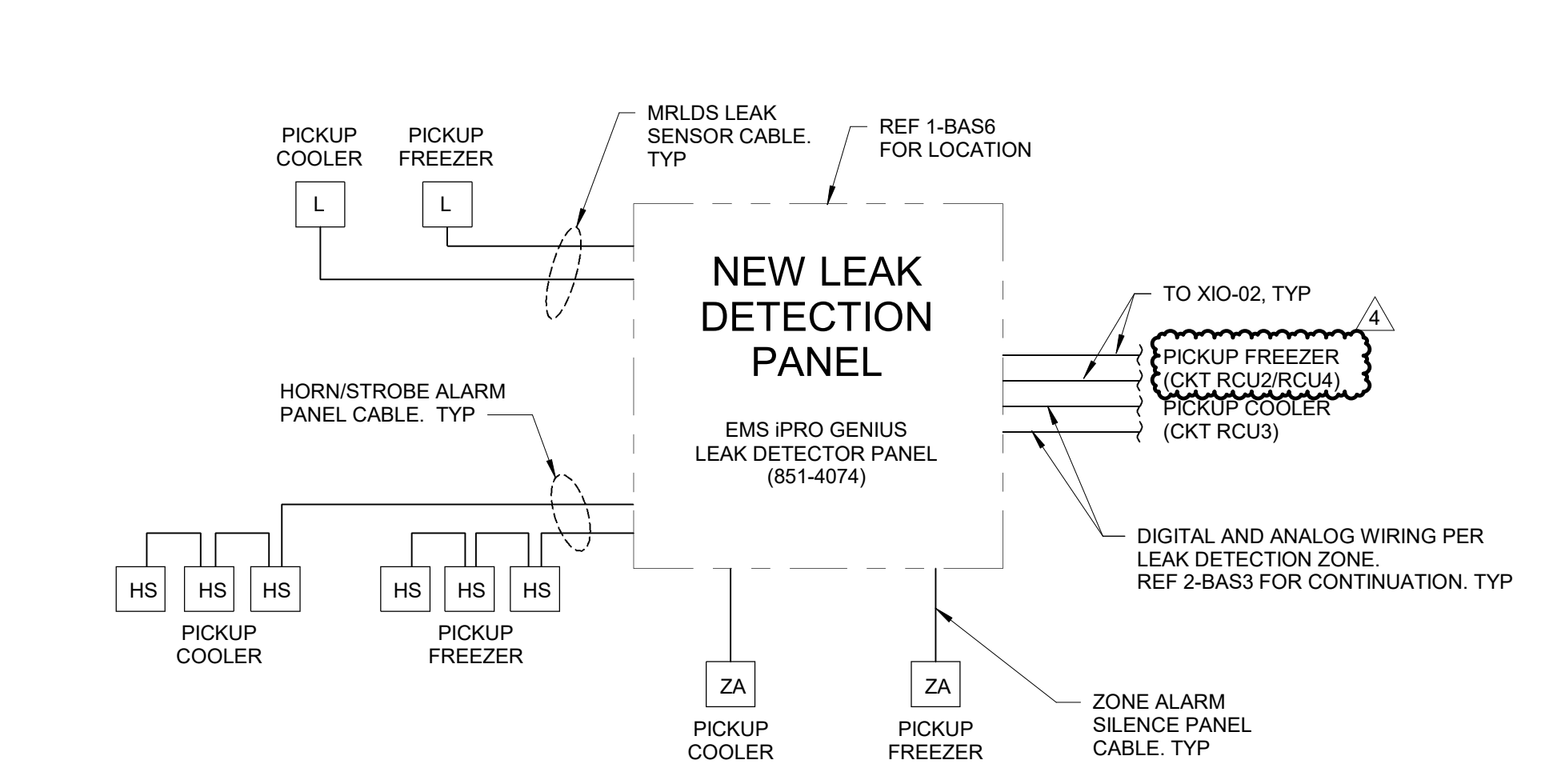
AUDIBLE / VISUAL DEVICES SHALL ANNUNCIATE AT A SOUND PRESSURE LEVEL THAT IS A MINIMUM OF 15 DBA ABOVE THE AMBIENT NOISE LEVEL.

**LEGEND**

OEL: OCCUPATIONAL EXPOSURE LIMIT    TWA: TIME WEIGHTED AVERAGE    LHSV: LIQUID LINE SOLENOID VALVE

IDLH: IMMEDIATELY DANGEROUS TO LIFE OR HEALTH    SPL: SOUND PRESSURE LEVEL    EPR: EVAPORATOR PRESSURE REGULATOR

**2 LEAK DETECTION AND ALARM ONE-LINE DIAGRAM**



EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELVES WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

STIPULATION FOR REUSE  
THIS DRAWING WAS PREPARED FOR USE ON A SPECIFIC PROJECT AT THE SITE. IT CONTAINS INFORMATION THAT IS SPECIFIC TO THAT PROJECT. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE WRITTEN PERMISSION OF THE DESIGNER.

Walmart

PUYALLUP, WA

310 31ST AVENUE SE, PUYALLUP, WA 98374

STORE NO. 2403-278

WALGPR042    PHOTO: 192, GROCERY EXP

**ISSUE BLOCK**

4	ADD#6	07/07/22

CHECKED BY: ROP

DRAWN BY: JVG

PROTO CYCLE: 07/30/21

DOCUMENT DATE: 09/08/21



BUILDING AUTOMATION SYSTEM REFRIG LEAK DETECTION PLAN

SHEET: BAS6

08/20/21 10:04:00 AM  
 3700 - RD1 - REFRIGERATION DEMO PLAN - 2403-278

**GENERAL NOTES**

REFER TO SHEET R1 FOR GENERAL NOTES.

**PICKUP REFRIGERATION  
 EQUIPMENT SALVAGE  
 REQUIREMENTS**

DO NOT INCLUDE SALVAGE CREDIT FOR OGP REFRIGERATION EQUIPMENT IN THIS PROJECT BID.

RECOVER ALL REFRIGERANT FROM THE EXISTING REFRIGERATION EQUIPMENT TO BE REMOVED. RECOVERED REFRIGERATION EQUIPMENT SHALL BE USED TO CHARGE NEW REFRIGERATION EQUIPMENT OR SHALL BE STORED IN REFRIGERANT CYLINDERS. RECOVERED REFRIGERANT SHALL BE PLACED IN REFRIGERATION RACK HOUSE AND CLEARLY LABELED AND DATED FOR FUTURE USE.

CAREFULLY DOCUMENT THE AMOUNTS OF REFRIGERANT REMOVED FROM DEMOLISHED EQUIPMENT IN ACCORDANCE WITH WALMART'S POLICIES AND APPLICABLE LAWS, CODES, AND REGULATIONS FOR REFRIGERANT RECOVERY AND HANDLING.

OGP EQUIPMENT TO BE REMOVED WILL BE PREPARED AND PALLETIZED FOR SALVAGE BY THE GENERAL CONTRACTOR AND WILL BE SALVAGED BY OWNER'S DESIGNATED SALVAGE VENDOR IN ACCORDANCE WITH PROJECT SPECIFICATIONS.

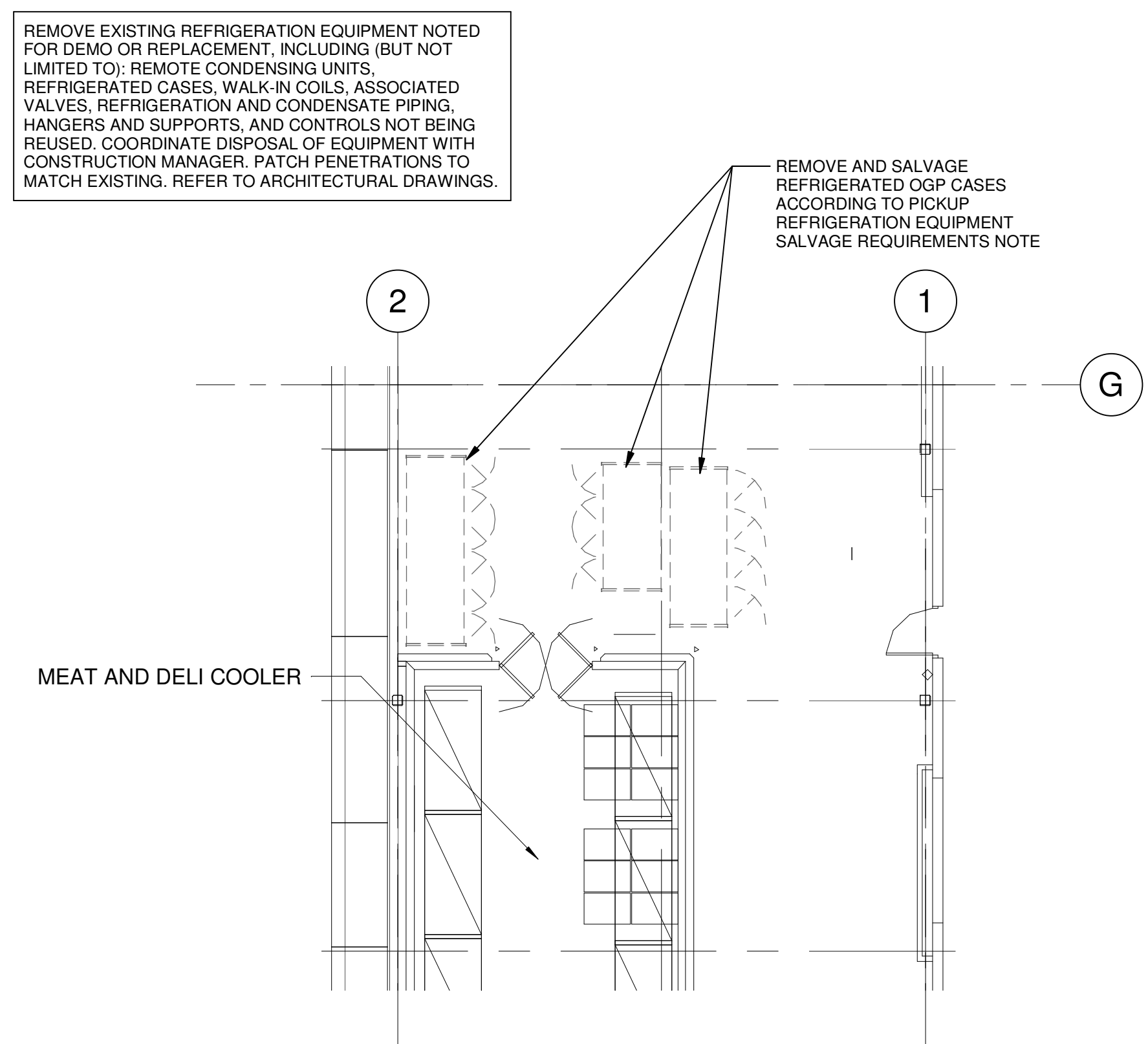
**STIPULATION FOR REUSE**  
 THIS DRAWING IS PREPARED FOR USE IN A SPECIFIC PROJECT AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF WILLIAM R. KRANER PROFESSIONAL ENGINEERS, INC. ANY REUSE OF THIS DRAWING WITHOUT THE WRITTEN PERMISSION OF WILLIAM R. KRANER PROFESSIONAL ENGINEERS, INC. SHALL BE CONSIDERED A VIOLATION OF THE LAW.

**CONSULTANTS**

**Walmart\***  
**PUYALLUP, WA**  
 310 31ST AVENUE SE, PUYALLUP, WA 98374  
 STORE NO. 2403-278  
 WALGPR402 PHOTO: 192 GROCERY EXP  
 -JOB NUMBER-

**ISSUE BLOCK**


CHECKED BY: RCP  
 DRAWN BY: JVG  
 PROTO CYCLE: 07/30/21  
 DOCUMENT DATE: 09/08/21



**1 REFRIGERATION DEMO PLAN**  
 1/8" = 1'-0"

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT 'AS-BUILT' CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELVES WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

**REFRIGERATION  
 DEMO PLAN**

SHEET:  
**RD1**



24 HOURS PRIOR TO SHUTTING DOWN ANY REFRIGERATION SYSTEMS, HVAC SYSTEMS OR BUILDING AUTOMATION CONTROLS SYSTEMS, SEND EMAIL TO NSRM@WALMART.COM. THE E-MAIL SHALL STATE WHAT, WHY, AND WHEN IT IS BEING SHUT DOWN AND HOW LONG IT IS ANTICIPATED TO BE SHUT DOWN. THEN SEND A FOLLOW UP EMAIL TO NSRM@WALMART.COM AFTER THE WORK IS COMPLETE AND THE SYSTEM IS BACK UP AND RUNNING.

### REFRIGERATION SYMBOLS

XXX	CIRCUIT NUMBER (CIRCUIT INFO)
XXX	MODEL NUMBER
CO	CLEANOUTS (CO)
---	CONDENSATE DRAIN LINE (CD)
↔	CONNECT TO EXISTING
↔	CONTINUATION
X XX	DETAIL NUMBER (DETAIL REFERENCE)
▨	EVAPORATOR COIL
○	ISOLATION VALVE
○	ELBOW - TURNED DOWN
○	ELBOW TURNED UP
(XX.XXX)	REFRIGERATION KEYNOTE REFERENCE
---	REFRIGERATION PIPING (ABOVE)
---	REFRIGERATION PIPING (BELOW)
---	REFRIGERATION EQUIPMENT (DEMO)
ETR	EXISTING TO REMAIN
(TYP)	TYPICAL

### EPA CLEAN AIR ACT

COMPLY WITH CLEAN AIR ACT, TITLE VI, SECTION 608 AND CODE OF FEDERAL REGULATION TITLE 40, PART 82 WHEN ADDING OR REMOVING REFRIGERATED EQUIPMENT. RECORD ALL EQUIPMENT IDENTIFICATION NUMBERS, MODEL AND SERIAL NUMBERS, THE AMOUNT OF REFRIGERANT RECOVERED FROM EACH UNIT, THE DATE OF DECOMMISSIONING, COMPANY NAME AND SIGNATURE OF ON-SITE SUPERVISOR.

### GENERAL NOTES

- PLANS INDICATE GENERAL ROUTING OF REFRIGERANT LINES. WITH A SINGLE LINE SHOWN INDICATING BOTH SUCTION AND LIQUID LINE ROUTING FOR EACH SYSTEM.
- REFRIGERATION SYSTEM INSTALLATION SHALL BE IN COMPLETE CONFORMANCE WITH SPECIFICATIONS, AND WITH ALL REQUIREMENTS OF REFRIGERATION EQUIPMENT MANUFACTURER.
- REFRIGERATION DRAWINGS ARE PROVIDED AS AN AID TO BIDDERS AND TO INDICATE DESIRED ROUTING OF REFRIGERATION LINES. CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR CORRECT INSTALLATION OF PIPING AND ACCESSORIES TO PROVIDE A COMPLETE AND FULLY OPERATING SYSTEM.
- REFER TO SPECIFICATION 15600 FOR INSULATION THICKNESS. INSIDE DIAMETER OF INSULATION SHALL MATCH PIPE DIAMETER TO MINIMIZE AIR GAPS BETWEEN PIPING AND INSULATION. PROVIDE FACTORY PRE-MANUFACTURED FITTINGS AT ALL TRAPS AND ELBOWS. WHERE PRE-MANUFACTURED FITTINGS ARE UNAVAILABLE MITER CUT ALL FITTINGS TO ENSURE PROPER SEAL BETWEEN INSULATION SEGMENTS.
- PIPE INSULATION SHALL BE BLACK, UNLESS OTHERWISE STATED ON PLANS OR SPECIFICATIONS.
- COORDINATE REFRIGERATION DEMOLITION ISSUES WITH THE ARCHITECTURAL DRAWINGS. REFER TO ARCHITECTURAL PLANS FOR REFRIGERATION EQUIPMENT DEMOLITION AND COOLER REPAIR AND REMODELING.
- REFRIGERATION SYSTEM SHALL REMAIN OPERATIONAL DURING REMODELING. DURING THE PHASING OF OLD TO NEW SYSTEMS, BOTH NEW AND OLD REFRIGERATION SYSTEMS MAY BE REQUIRED TO OPERATE AT THE SAME TIME FOR A SHORT PERIOD.
- WHERE NEW REFRIGERATED EQUIPMENT IS INDICATED ON THE DRAWINGS, PROVIDE DEMOLITION, REMOVAL, AND TEMPORARY STORAGE OF OLD EQUIPMENT PER WALMART MECHANICAL SERVICES CONSTRUCTION MANAGER'S INSTRUCTIONS, AND REFRIGERATION DEMO NOTES.
- COORDINATE REMOVAL AND DISPOSAL OF EXISTING EVAPORATORS, REFRIGERATED CASES, AND CONDENSING UNITS, WITH WALMART MECHANICAL SERVICES CONSTRUCTION MANAGER.
- REMOVE COPPER LINES, EVAPORATORS, AND CONDENSING LINES FROM COOLERS/FREEZERS BEING REMOVED FROM SITE. COORDINATE WITH WALK-IN PANEL VENDOR FOR TIME LINE OF REPLACEMENT. REFERENCE SPECIFICATION FOR CONTACT INFORMATION.
- WALK-IN PANEL VENDOR SHALL PROPERLY PREPARE ALL COOLER/FREEZER PANELS, GLASS DOORS, SLIDER OR SWING DOORS, PALLETTES, AND PREPARE THE EQUIPMENT TO SHIP OFF SITE.
- COORDINATE WITH FIRE PROTECTION CONTRACTOR FOR THE REMOVAL OF SPRINKLERS FOR ALL REMOVED COOLER/FREEZER BOXES.
- COORDINATE WITH ELECTRICAL CONTRACTOR FOR THE REMOVAL OF ALL REMOVED COOLER/FREEZER BOXES ELECTRICAL WIRING DEVICES.
- COORDINATE WITH BAS CONTRACTOR FOR THE REMOVAL OF ALL REMOVED COOLER/FREEZER BOXES EMS WIRING AND DEVICES.
- EXISTING REFRIGERATION PIPING MAY BE RE-USED UNLESS OTHERWISE NOTED ON PLANS. REFER TO SCHEDULES FOR PIPE SIZE REQUIREMENTS.
- BUILDING COMPONENTS ABANDONED BY THE SCOPE OF WORK SHALL BE SECURED TO PREVENT FALLING, LOOSENING, OR CREATING DAMAGE OF ANY KIND IN THE FUTURE.
- IF ANY RACK SYSTEMS WILL BE OPENED TO ADD OR REPLACE CASES, EVAPORATORS, ETC. THEN 24 TO 48 HOURS AFTER THE WORK IS COMPLETED AND ALL FINAL ADJUSTMENTS HAVE BEEN MADE, PROVIDE AND CHANGE LIQUID LINE FILTER CORES, OIL SYSTEM FILTER USING SPORLAN OF STYLE FILTER, AND REPLACE SUCTION FILTERS. FILTERS ARE TO BE RATED FOR WAX REMOVAL. CONTRACTOR TO PROPERLY DISPOSE OF OIL AND COMPONENTS REPLACED. REFER TO SPECIFICATION 15600.
- REFER TO GROCERY ARCHITECTURAL DRAWINGS FOR ADDITIONAL WORK BY REFRIGERATION CONTRACTOR.
- COMPLETE ASSET TAGGING PROCESS FOR ALL NEW REFRIGERATED CASES. REFER TO SPECIFICATIONS.
- UPON START-UP OF ALL NEW REFRIGERATED EQUIPMENT, CONSTRUCTION MANAGER SHALL REQUEST THE BUILDING PERFORMANCE REPORT FOR ALL RACKS AND SUCTION GROUPS WHERE WORK IS PERFORMED. ANY DEVIATIONS NOTED ON THE REPORT MUST BE CORRECTED PRIOR TO PROJECT CLOSE OUT. REQUEST VIA EMAIL AT B.PTEAM1@WAL-MART.COM

### KEYNOTES

- 15.603 AT ALL POINTS WHERE SUCTION LINES RISE, PROVIDE A SUCTION LINE TRAP AT THE BASE OF THE RISER.
- 15.606 CONDENSATE DRAIN; PITCH DRAIN LINES DOWN APPROXIMATELY 1" PER 10' TOWARD DRAIN. PROVIDE COPPER PIPING WITH ELECTRIC HEAT TAPE AND INSULATION ON ALL CONDENSATE LINES EXPOSED TO FREEZING TEMPERATURES.
- 15.607 SEE SCHEDULES FOR EVAPORATOR TYPES, SIZES, AND CAPACITIES; CONTROL METHOD; AND ALL REFRIGERATION PIPING SIZES, ETC.
- 15.608 END CONDENSATE LINE OVER RECEPTOR WAIR GAP. CONTRACTOR SHALL ENSURE FLOOR DRAIN(S) AND DRAIN LINE(S) SERVING WALK-IN ARE FREE OF OBSTRUCTIONS AND FUNCTION PROPERLY. WHERE EXTENSIVE DAMAGE EXISTS AND/OR PROPER DRAINAGE CANNOT BE OBTAINED COORDINATE WITH WALMART MECHANICAL CONSTRUCTION MANAGER.
- 15.610 PROVIDE 0.020" PVC JACKET ON ALL REFRIGERATION LINES EXTERIOR TO BUILDING.
- 15.612 PROVIDE INTERMEDIATE SUCTION LINE TRAP IN WALL OR VOID SPACE. INTERMEDIATE TRAP SHOULD BE PLACED AT THE MIDPOINT OF ANY SUCTION LINE RISE WHICH EXCEEDS 16 FEET.
- 15.617 COORDINATE REFRIGERATION LINE PENETRATIONS THROUGH ROOF. REINFORCE ROOF STRUCTURE AS NECESSARY. CUT ROOF OPENING FOR THE REFRIGERATION PIPE. PENETRATION AND SUPPLY ROOF CURB WITH WEATHERTIGHT SHEETMETAL COVER. PROPERLY FLASH, PATCH, AND REPAIR ROOF AS REQUIRED FOR NEW PENETRATION. COORDINATE EXACT SIZE AND LOCATION OF ROOF PENETRATIONS WITH STRUCTURAL DRAWINGS.
- 15.620 INSTALL VERTICAL SUCTION DOUBLE RISER IN THIS LOCATION. REFER TO VERTICAL SUCTION DOUBLE RISER DETAIL, AND PIPING SCHEDULES FOR SIZES.
- 15.637 REFRIGERATION CONTRACTOR SHALL INSTALL REFRIGERATION MANUFACTURER-FURNISHED LIQUID LINE SOLENOID VALVE IN A SERVICE ACCESSIBLE LOCATION AT CASE/EVAPORATOR. INSTALL CONTROL WIRING FROM SOLENOID VALVE BACK TO CIRCUIT CONTROLLER OR CONDENSING UNIT. REFER TO REFRIGERATION SUBMITTALS/SCHEDULES AND BAS PLANS FOR EXACT REQUIREMENTS. REFER TO SPECIFICATIONS FOR ASSET TAGGING REQUIREMENTS.

KEYNOTES REMOVED:  
15.601  
15.602

#### PIPING SCHEDULE RCU2

PIPE DESIGNATION	HORIZONTAL SUCTION	VERTICAL SUCTION RISER AS REQUIRED**	LIQUID	ESTIMATED TOTAL LENGTH***
RCU2	1 3/8	5/8 & 7/8	1/2	64

\* RISER SIZE IS SHOWN EVEN WHERE A RISER IS NOT EXPECTED. THIS IS FOR REFERENCE ONLY AND TO BE USED IN THE EVENT THAT A PIPING CONFLICT CAUSES THE NEED FOR A RISER. IF UNEXPECTED RISER LENGTH EXCEEDS 4 FEET, IT MUST BE APPROVED BY ENGINEER OF RECORD.

\*\* TWO LISTED SIZES INDICATES A VERTICAL SUCTION DOUBLE RISER.

\*\*\* ESTIMATED TOTAL LENGTH INCLUDES HORIZONTAL AND VERTICAL PIPE SECTIONS. THIS IS ONLY AN ESTIMATE AND ACTUAL LENGTH WILL VARY. NOT TO BE USED FOR BIDDING PURPOSES.

#### PIPING SCHEDULE RCU3

PIPE DESIGNATION	HORIZONTAL SUCTION	VERTICAL SUCTION RISER AS REQUIRED**	LIQUID	ESTIMATED TOTAL LENGTH***
RCU3	7/8	1/2 & 5/8	1/2	33

\* RISER SIZE IS SHOWN EVEN WHERE A RISER IS NOT EXPECTED. THIS IS FOR REFERENCE ONLY AND TO BE USED IN THE EVENT THAT A PIPING CONFLICT CAUSES THE NEED FOR A RISER. IF UNEXPECTED RISER LENGTH EXCEEDS 4 FEET, IT MUST BE APPROVED BY ENGINEER OF RECORD.

\*\* TWO LISTED SIZES INDICATES A VERTICAL SUCTION DOUBLE RISER.

\*\*\* ESTIMATED TOTAL LENGTH INCLUDES HORIZONTAL AND VERTICAL PIPE SECTIONS. THIS IS ONLY AN ESTIMATE AND ACTUAL LENGTH WILL VARY. NOT TO BE USED FOR BIDDING PURPOSES.

#### PIPING SCHEDULE RCU4

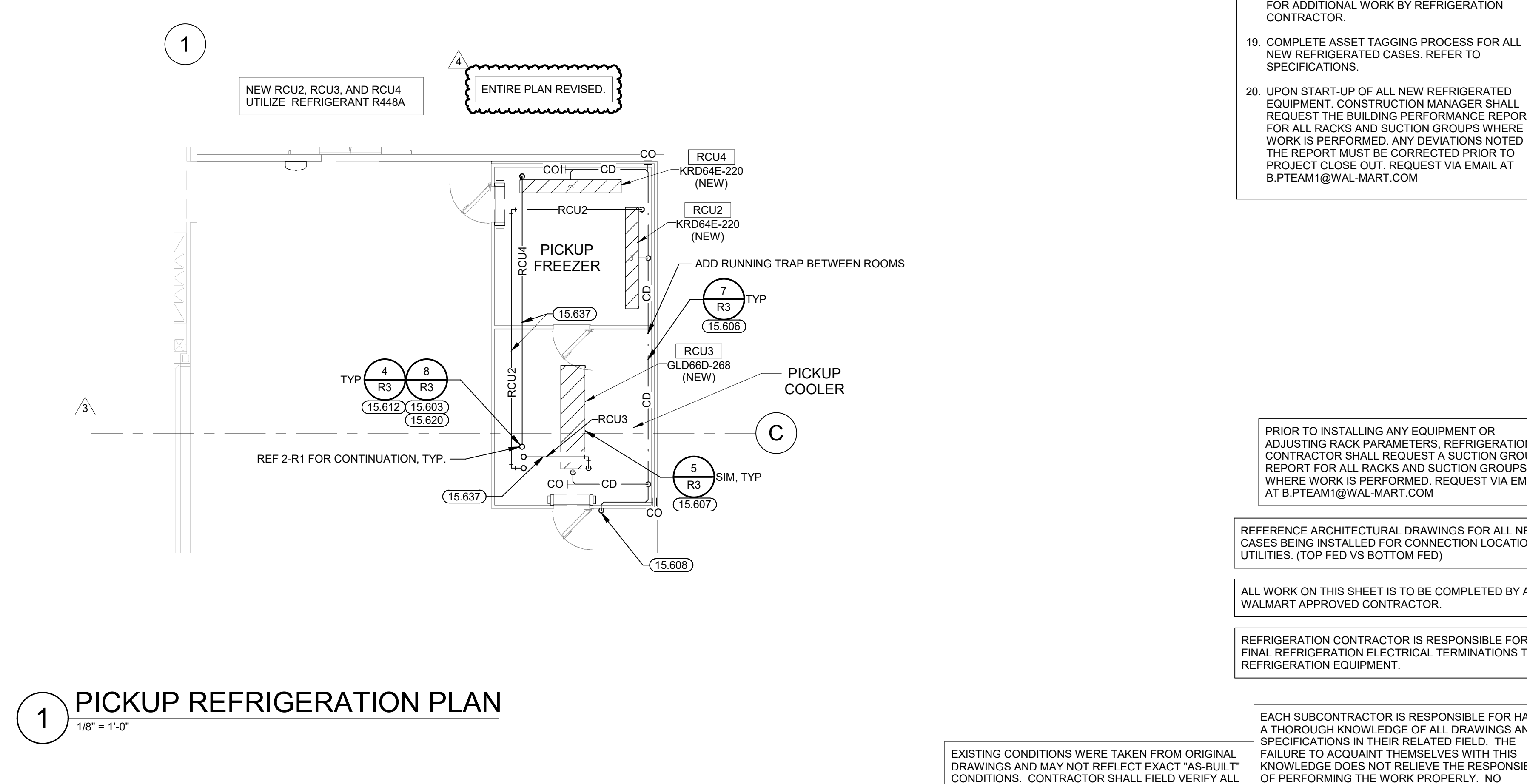
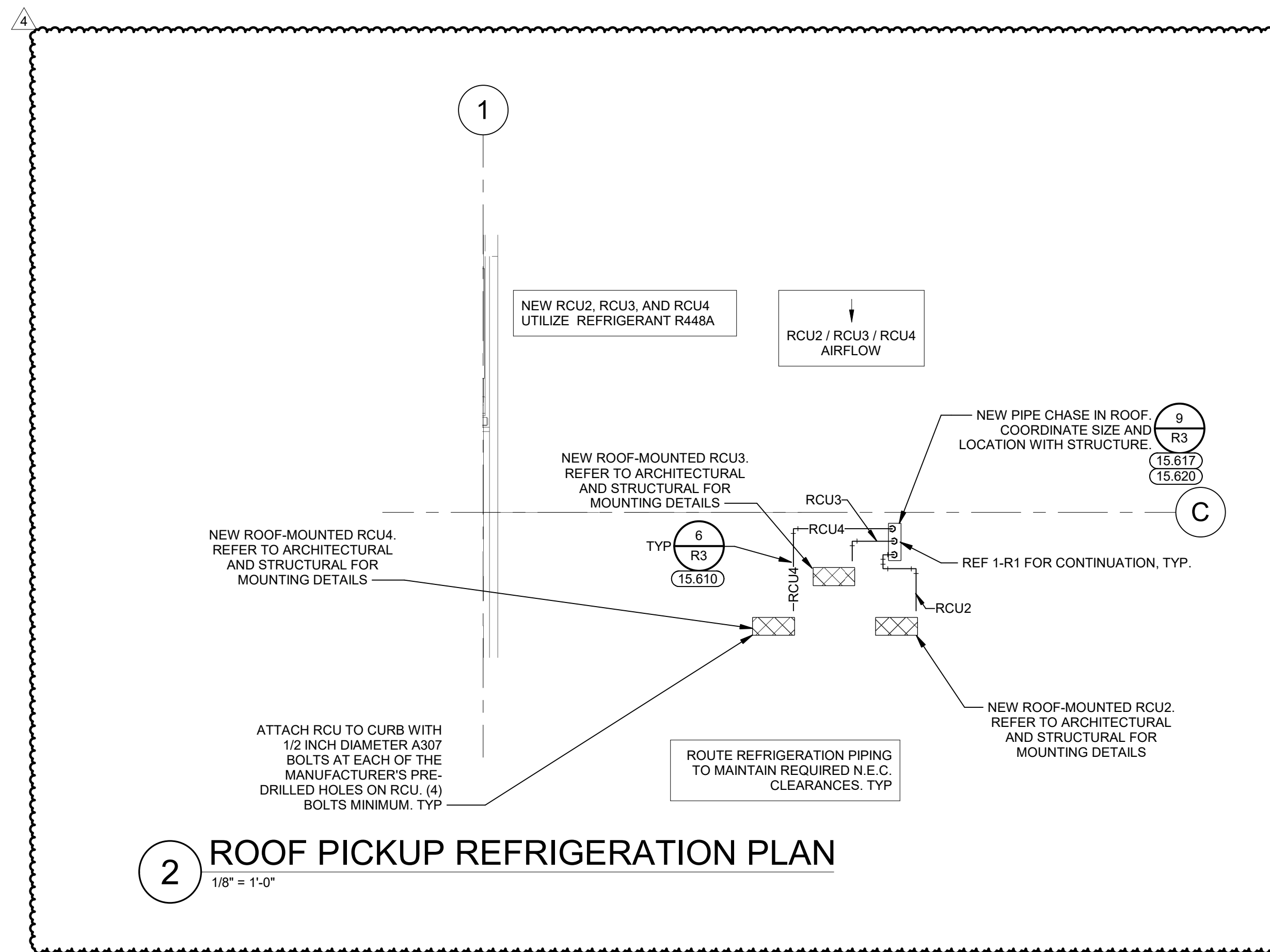
PIPE DESIGNATION	HORIZONTAL SUCTION	VERTICAL SUCTION RISER AS REQUIRED**	LIQUID	ESTIMATED TOTAL LENGTH***
RCU4	1 3/8	5/8 & 7/8	1/2	67

\* RISER SIZE IS SHOWN EVEN WHERE A RISER IS NOT EXPECTED. THIS IS FOR REFERENCE ONLY AND TO BE USED IN THE EVENT THAT A PIPING CONFLICT CAUSES THE NEED FOR A RISER. IF UNEXPECTED RISER LENGTH EXCEEDS 4 FEET, IT MUST BE APPROVED BY ENGINEER OF RECORD.

\*\* TWO LISTED SIZES INDICATES A VERTICAL SUCTION DOUBLE RISER.

\*\*\* ESTIMATED TOTAL LENGTH INCLUDES HORIZONTAL AND VERTICAL PIPE SECTIONS. THIS IS ONLY AN ESTIMATE AND ACTUAL LENGTH WILL VARY. NOT TO BE USED FOR BIDDING PURPOSES.

ALL RCU2, RCU3 AND RCU4 PIPING SHOWN IS NEW



William R. Kraner  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF WASHINGTON  
LICENSE NO. 47426-0004  
ISSUED 08/16/2017  
RENEWED 08/16/2022  
EXPIRES 08/16/2025

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CONSULTANTS

Walmart\*  
PUYALLUP, WA  
310 31ST AVENUE SE, PUYALLUP, WA 98374  
STORE NO. 2403-278  
JOB NUMBER: WALGPM402 PROTO: 192 GROCERY EXP

#### ISSUE BLOCK

NO.	DESCRIPTION	DATE
3	ADD#2	05/11/22
4	ADD#6	07/07/22

CHECKED BY: ROP  
DRAWN BY: JVG  
PROTO CYCLE: 07/30/21  
DOCUMENT DATE: 09/08/21



PRIOR TO INSTALLING ANY EQUIPMENT OR ADJUSTING RACK PARAMETERS, REFRIGERATION CONTRACTOR SHALL REQUEST A SUCTION GROUP REPORT FOR ALL RACKS AND SUCTION GROUPS WHERE WORK IS PERFORMED. REQUEST VIA EMAIL AT B.PTEAM1@WAL-MART.COM

REFERENCE ARCHITECTURAL DRAWINGS FOR ALL NEW CASES BEING INSTALLED FOR CONNECTION LOCATION OF UTILITIES. (TOP FED VS BOTTOM FED)

ALL WORK ON THIS SHEET IS TO BE COMPLETED BY A WALMART APPROVED CONTRACTOR.

REFRIGERATION CONTRACTOR IS RESPONSIBLE FOR ALL FINAL REFRIGERATION ELECTRICAL TERMINATIONS TO REFRIGERATION EQUIPMENT.

PICKUP REFRIGERATION PLAN

SHEET: R1

REFRIGERATION SCHEDULE SYSTEM RCU2												Refrig. BAS: Novar		Condenser Type: Air		HR Media: N/A		SG1 Liq Temp °F: 103		SG2 Liq Temp °F: N/A		DESIGN DB °F: 96		ASHRAE Weather Station Location: MCHORD AFB, WA												
Format: Supercenter		Store#: 2403		System Type: Remote Condensing Unit		Refrigerant: R448A		System Elec: 208V/220V 3ph 60Hz		Sat. Cond. Temp °F: 111		HR Use: N/A		SG1 Comp RGT °F: 30		SG2 Comp RGT °F: N/A		DESIGN WB °F: 68		EXTERIOR DRY BULB (DB) °F: (Based on 5 yr Extreme DB) 96																
Proto Size: Remodel		City/State: Puyallup, WA		Consultant: William R. Kraner, P.E.		Estimated Refrigerant Charge		Defrost Elec: 208V 1Ph/3Ph 60Hz		Cond Design TD °F: 15		HR Water GPM: N/A						DESIGN INTERIOR DRY BULB °F: 75		EXTERIOR WET BULB (WB) °F: (Based on 0.4% Monthly Max MCWB) 68																
ProtoCycle Date: 7/30/2021		Date Prepared: 9/8/2021		Prepared by: James Van Grouw		Rack and Condenser (bs) --		Sys Pilot Elec: N/A		Evap. Superheat °F: 10		Est. Summer THR MBH: N/A						DESIGN INTERIOR RH % : 55%		ASHRAE PUBLISHED YEAR: 2017																
				Specifications Section: 15610 v4.0 - DX		Fixture and Field Piping (bs) --		Cond. Elec: N/A		Est. Winter THR MBH: N/A										DESIGN ELEVATION (FT): 322																
Equip Information			Case Fixture Length / Quantity								Walk-In Box Size			FIXTURE ELECTRICAL INFORMATION												MISC INFORMATION										
CKT #	Tag Number	Cutsheet Date	FT/# of Doors	1 Dv/2'	2 Dv/4'	3 Dv/6'	4 Dv/8'	5 Dv/10'	6 Dv/12'	L	W	H	Case / Coil Model #	Case / Coil Manufacturer	Application	LSHX Model #	Evaporator Coil TXV / Distributor	Sub-Circuit Load (MBH)	Circuit Load (MBH)	Evap. SST	Case/ Walk-in Air Temp	Circuit Control Valves		Defrost Type	Defrost Heaters		Fans		Lights Amps (120v)	Anti-Sweat Amps (120v)	Drain Pan Amps (120v)	Comments				
RCU2										18	16	10	KRD64E-220-TDAK	Krack	1/2 Pickup Freezer W.I.	HX-6	TXV	**	16.6	-16	-10	EPR	LLSV	EL	Amps	Voltage	Amps	Voltage	209	208/3	3.6	208/1	(120v)	(120v)	(120v)	NEW EVAP
																		Suction Group #1 Required Capacity:		16.6		-21		(°F) Suction Temperature												

General Notes:  
 1.) New Remote Condensing Unit coordinated with Hussmann.  
 2.) Temperature and defrost controlled via KE2.

REFRIGERATION SCHEDULE SYSTEM RCU3												Refrig. BAS: Novar		Condenser Type: Air		HR Media: N/A		SG1 Liq Temp °F: 103		SG2 Liq Temp °F: N/A		DESIGN DB °F: 96		ASHRAE Weather Station Location: MCHORD AFB, WA												
Format: Supercenter		Store#: 2403		System Type: Remote Condensing Unit		Refrigerant: R448A		System Elec: 208V/220V 3ph 60Hz		Sat. Cond. Temp °F: 111		HR Use: N/A		SG1 Comp RGT °F: 50		SG2 Comp RGT °F: N/A		DESIGN WB °F: 68		EXTERIOR DRY BULB (DB) °F: (Based on 5 yr Extreme DB) 96																
Proto Size: Remodel		City/State: Puyallup, WA		Consultant: William R. Kraner, P.E.		Estimated Refrigerant Charge		Defrost Elec: 208V 1Ph/3Ph 60Hz		Cond Design TD °F: 15		HR Water GPM: N/A						DESIGN INTERIOR DRY BULB °F: 75		EXTERIOR WET BULB (WB) °F: (Based on 0.4% Monthly Max MCWB) 68																
ProtoCycle Date: 7/30/2021		Date Prepared: 9/8/2021		Prepared by: James Van Grouw		Rack and Condenser (bs) --		Sys Pilot Elec: N/A		Evap. Superheat °F: 10		Est. Summer THR MBH: N/A						DESIGN INTERIOR RH % : 55%		ASHRAE PUBLISHED YEAR: 2017																
				Specifications Section: 15610 v4.0 - DX		Fixture and Field Piping (bs) --		Cond. Elec: N/A		Est. Winter THR MBH: N/A										DESIGN ELEVATION (FT): 322																
Equip Information			Case Fixture Length / Quantity								Walk-In Box Size			FIXTURE ELECTRICAL INFORMATION												MISC INFORMATION										
CKT #	Tag Number	Cutsheet Date	FT/# of Doors	1 Dv/2'	2 Dv/4'	3 Dv/6'	4 Dv/8'	5 Dv/10'	6 Dv/12'	L	W	H	Case / Coil Model #	Case / Coil Manufacturer	Application	LSHX Model #	Evaporator Coil TXV / Distributor	Sub-Circuit Load (MBH)	Circuit Load (MBH)	Evap. SST	Case/ Walk-in Air Temp	Circuit Control Valves		Defrost Type	Defrost Heaters		Fans		Lights Amps (120v)	Anti-Sweat Amps (120v)	Drain Pan Amps (120v)	Comments				
RCU3										18	16	10	GLD66D-288-TDAA	Krack	Pickup Cooler W.I.	HX-3	TXV	**	15.0	28	34	EPR	LLSV	EL	Amps	Voltage	Amps	Voltage	209	208/3	3.0	208/1	(120v)	(120v)	(120v)	NEW EVAP
																		Suction Group #1 Required Capacity:		15.0		26		(°F) Suction Temperature												

General Notes:  
 1.) New Remote Condensing Unit coordinated with Hussmann.  
 2.) Temperature and defrost controlled via KE2.

REFRIGERATION SCHEDULE SYSTEM RCU4												Refrig. BAS: Novar		Condenser Type: Air		HR Media: N/A		SG1 Liq Temp °F: 103		SG2 Liq Temp °F: N/A		DESIGN DB °F: 96		ASHRAE Weather Station Location: MCHORD AFB, WA												
Format: Supercenter		Store#: 2403		System Type: Remote Condensing Unit		Refrigerant: R448A		System Elec: 208V/220V 3ph 60Hz		Sat. Cond. Temp °F: 111		HR Use: N/A		SG1 Comp RGT °F: 30		SG2 Comp RGT °F: N/A		DESIGN WB °F: 68		EXTERIOR DRY BULB (DB) °F: (Based on 5 yr Extreme DB) 96																
Proto Size: Remodel		City/State: Puyallup, WA		Consultant: William R. Kraner, P.E.		Estimated Refrigerant Charge		Defrost Elec: 208V 1Ph/3Ph 60Hz		Cond Design TD °F: 15		HR Water GPM: N/A						DESIGN INTERIOR DRY BULB °F: 75		EXTERIOR WET BULB (WB) °F: (Based on 0.4% Monthly Max MCWB) 68																
ProtoCycle Date: 7/30/2021		Date Prepared: 7/7/2022		Prepared by: James Van Grouw		Rack and Condenser (bs) --		Sys Pilot Elec: N/A		Evap. Superheat °F: 10		Est. Summer THR MBH: N/A						DESIGN INTERIOR RH % : 55%		ASHRAE PUBLISHED YEAR: 2017																
				Specifications Section: 15610 v4.0 - DX		Fixture and Field Piping (bs) --		Cond. Elec: N/A		Est. Winter THR MBH: N/A										DESIGN ELEVATION (FT): 322																
Equip Information			Case Fixture Length / Quantity								Walk-In Box Size			FIXTURE ELECTRICAL INFORMATION												MISC INFORMATION										
CKT #	Tag Number	Cutsheet Date	FT/# of Doors	1 Dv/2'	2 Dv/4'	3 Dv/6'	4 Dv/8'	5 Dv/10'	6 Dv/12'	L	W	H	Case / Coil Model #	Case / Coil Manufacturer	Application	LSHX Model #	Evaporator Coil TXV / Distributor	Sub-Circuit Load (MBH)	Circuit Load (MBH)	Evap. SST	Case/ Walk-in Air Temp	Circuit Control Valves		Defrost Type	Defrost Heaters		Fans		Lights Amps (120v)	Anti-Sweat Amps (120v)	Drain Pan Amps (120v)	Comments				
RCU4										18	16	10	KRD64E-220-TDAK	Krack	1/2 Pickup Freezer W.I.	HX-6	TXV	**	16.6	-16	-8	EPR	LLSV	EL	Amps	Voltage	Amps	Voltage	209	208/3	3.6	208/1	(120v)	(120v)	(120v)	NEW EVAP
																		Suction Group #1 Required Capacity:		16.6		-19		(°F) Suction Temperature												

General Notes:  
 1.) New Remote Condensing Unit coordinated with Hussmann.  
 2.) Temperature and defrost controlled via KE2.

ALL EVAPORATORS AND VALVES SHOWN FOR RCU2, RCU3 AND RCU4 ARE NEW

\*\* - FACTORY INSTALLED AND SIZED BY OEM

OWNER FURNISHED WALK-IN EVAPORATOR COIL SCHEDULE					
Manufacturer	VENDOR	Type	VOLTAGE	QTY	NOTES
KRACK	HUSSMANN CORPORATION	GLD66D-288	208 V	1	
KRACK	HUSSMANN CORPORATION	KRD64E-220	208 V	2	

GENERAL INFORMATION (ALL COILS):  
 1. COILS FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR.  
 2. INFORMATION CONTAINED WITHIN THIS SCHEDULE IS FOR OWNER'S PURCHASING REPRESENTATIVE. REFER TO REFRIGERATION SCHEDULE(S) FOR SPECIFIC INFORMATION REGARDING EQUIPMENT.  
 3. SUPPLIER SHALL VERIFY PRODUCT REQUIREMENTS INCLUDING BUT NOT LIMITED TO LIQUID TO SUCTION HEAT EXCHANGER, EXPANSION DEVICE TYPE, ELECTRICAL REQUIREMENTS, ETC. WITH REFRIGERATION SCHEDULE(S).

NOTES:  
 A. EVAPORATOR COIL SHALL BE FURNISHED WITH FACTORY INSTALLED VALVES, SENSORS, TRANSDUCERS, AND ALL OTHER APPURTENANCES, AS OUTLINED IN THE 15690 EQUIPMENT SPECIFICATION, INCLUDING: ELECTRONIC EXPANSION VALVE (EEV), SCHRADER VALVES (TWO IN THE SUCTION LINE, ONE IN THE LIQUID LINE, UPSTREAM OF THE EEV), SUCTION PRESSURE TRANSDUCER, AIR TEMPERATURE SENSOR, SUCTION TEMPERATURE SENSOR, DEFROST TERMINATION TEMPERATURE SENSOR AND ALL OTHER COMPONENTS. REFER TO DETAILS FOR FIELD INSTALLED CONTROL WIRING BETWEEN EVAPORATOR COIL AND WALK-IN UNIT CONTROLLER.

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

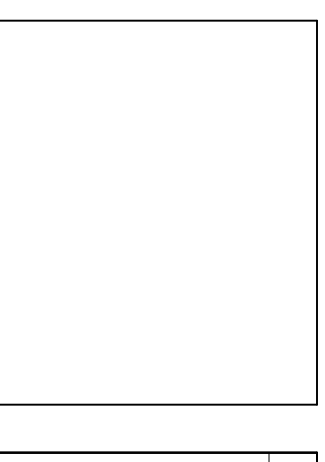
EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELVES WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

REFRIGERATION SCHEDULES

SHEET: R2



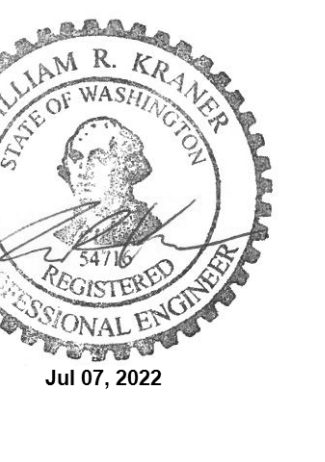
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 310 31ST AVENUE SE, PUYALLUP, WA 98374  
 STORE NO. 2403-278  
 WALGPM402 PROTO: 192, GROCERY EXP

ISSUE BLOCK	
ADD#	DATE
4	07/07/22

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 DRAWN BY: JVG  
 PROTO CYCLE: 07/30/21  
 DOCUMENT DATE: 09/08/21



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CONSULTANTS

Walmart  
 PUYALLUP, WA  
 310 31ST AVENUE SE, PUYALLUP, WA 98374  
 STORE NO. 2403-278  
 WALGPM402 PROJECT: 192 GROCERY EXP

ISSUE BLOCK

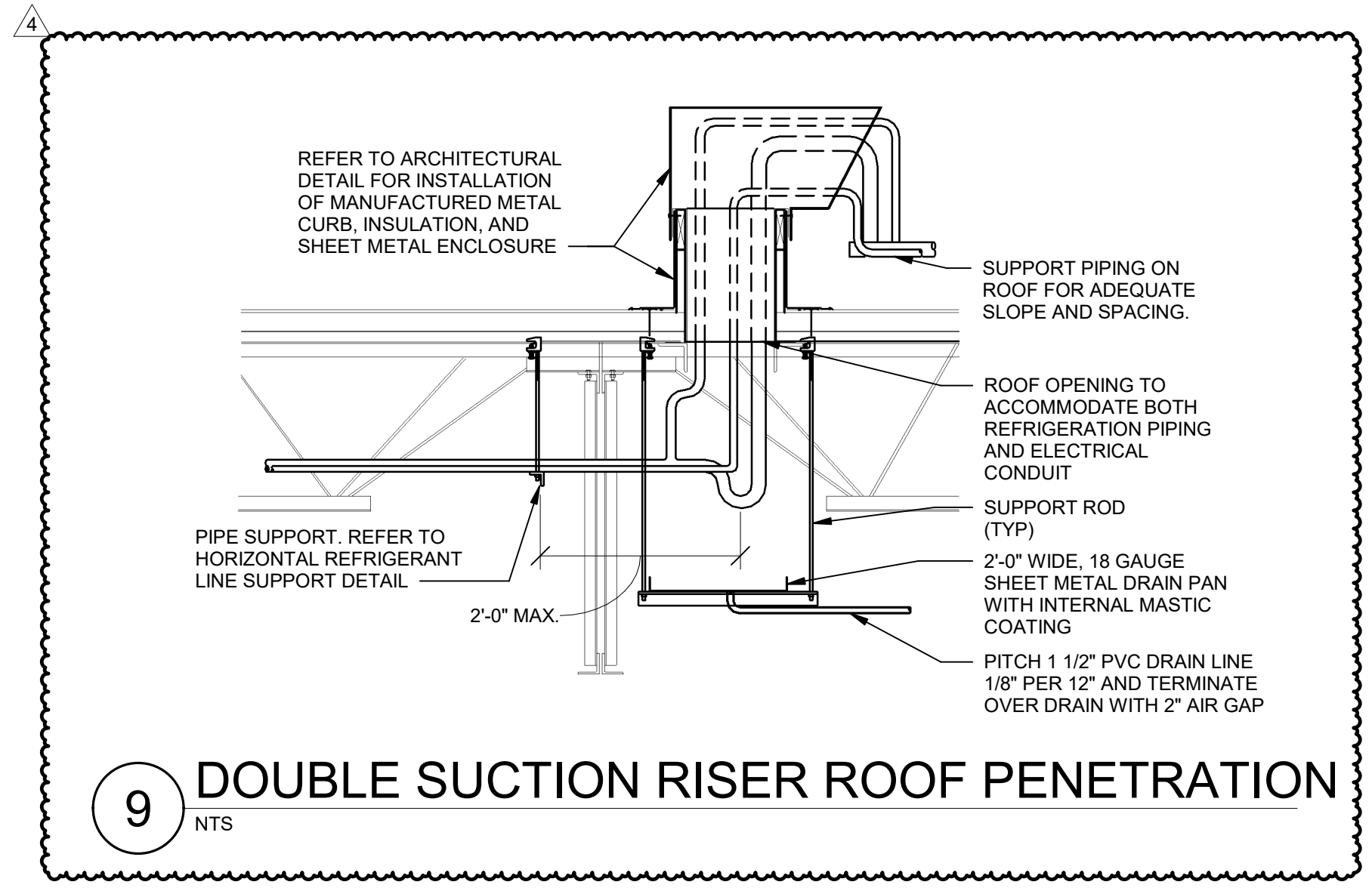
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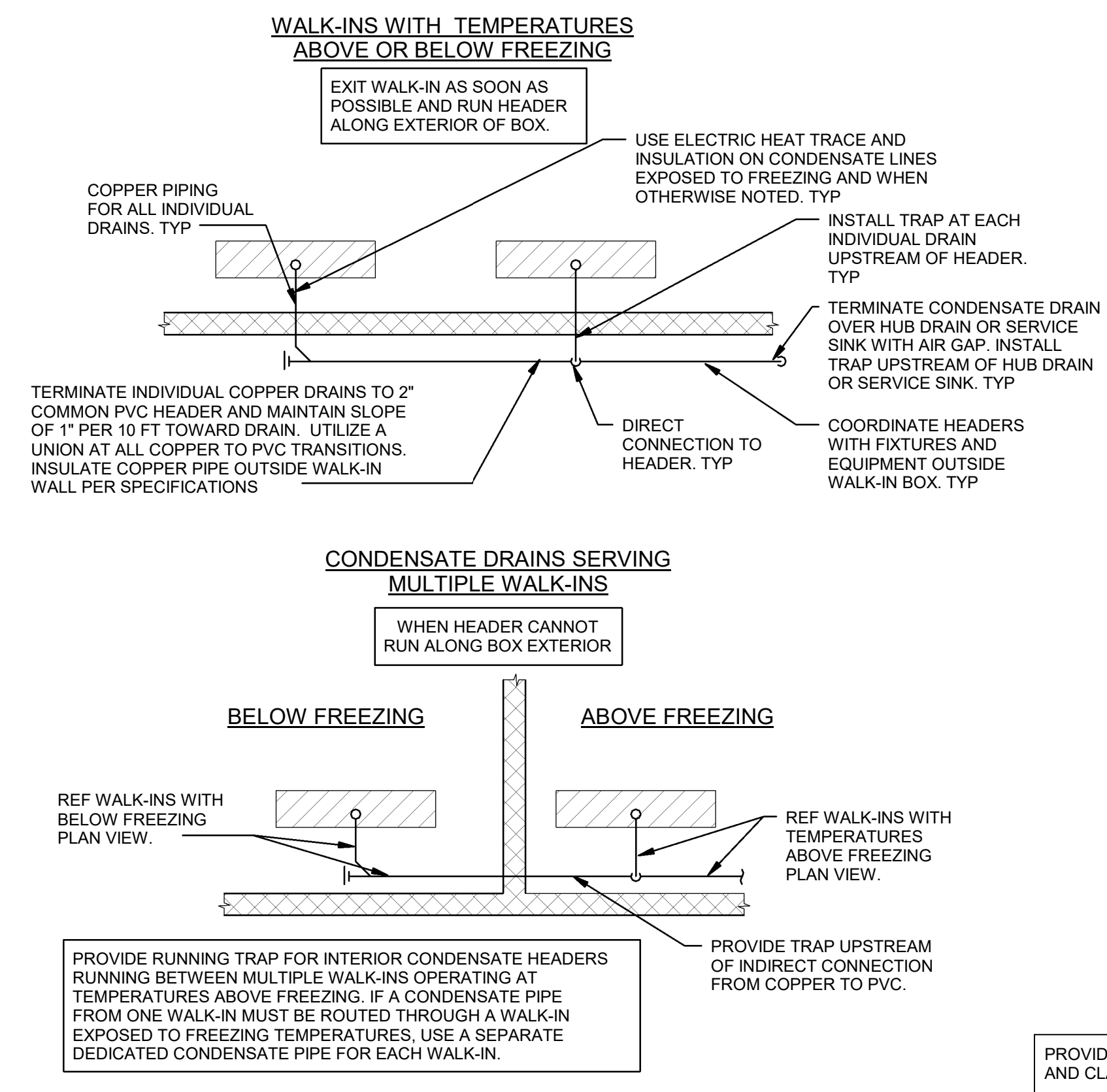


REFRIGERATION  
 DETAILS

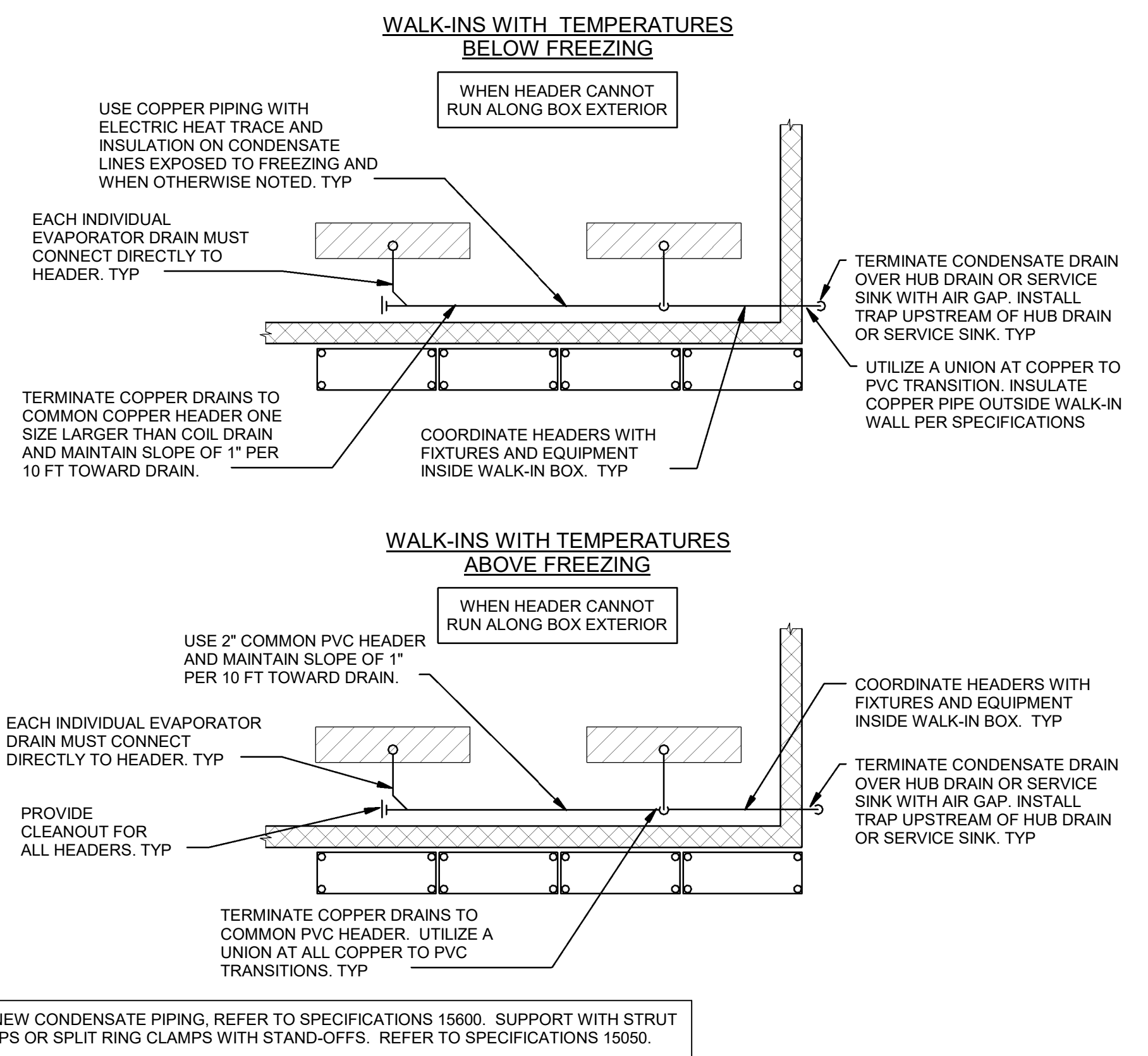
SHEET:  
 R3



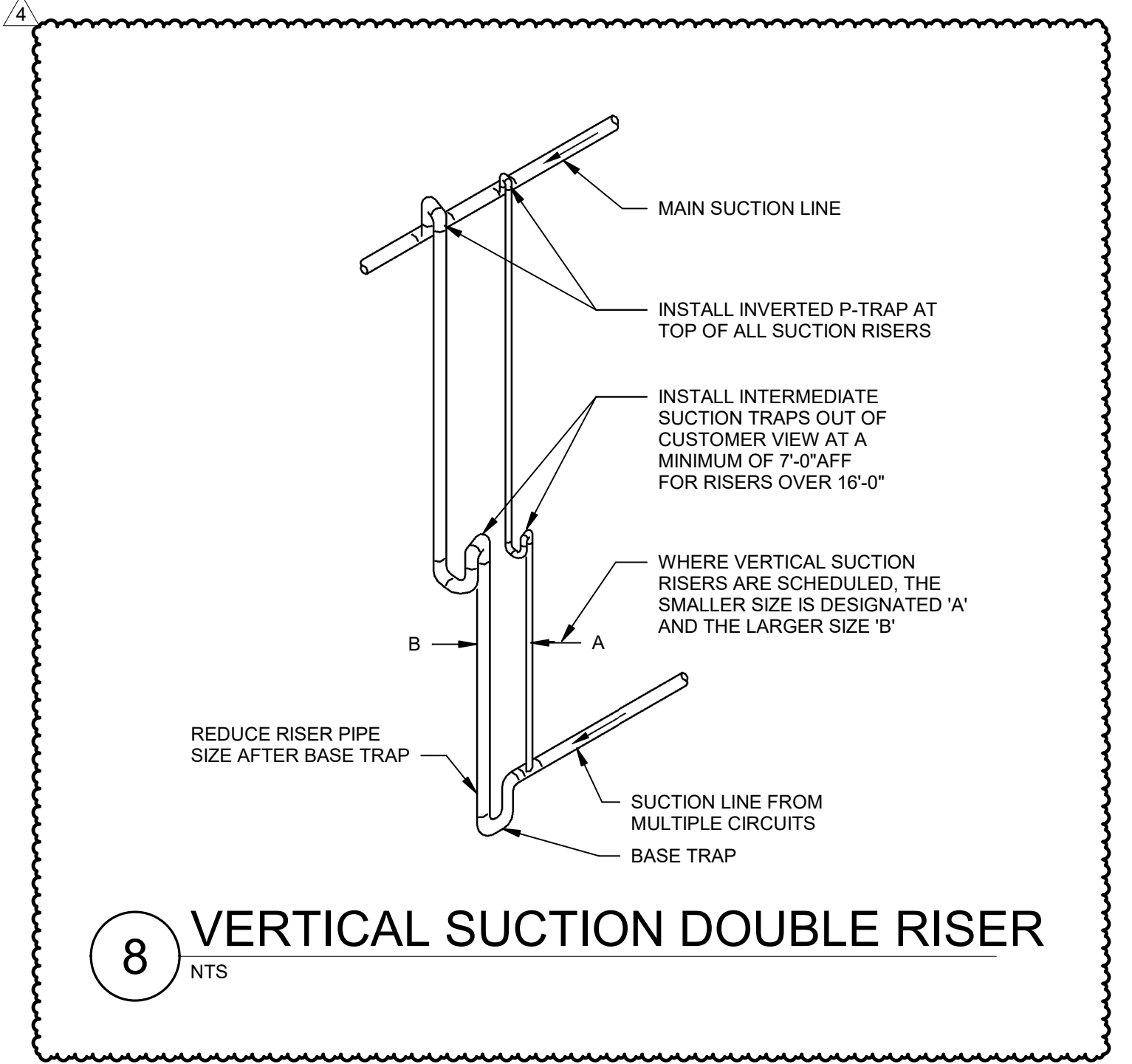
9 DOUBLE SUCTION RISER ROOF PENETRATION  
 NTS



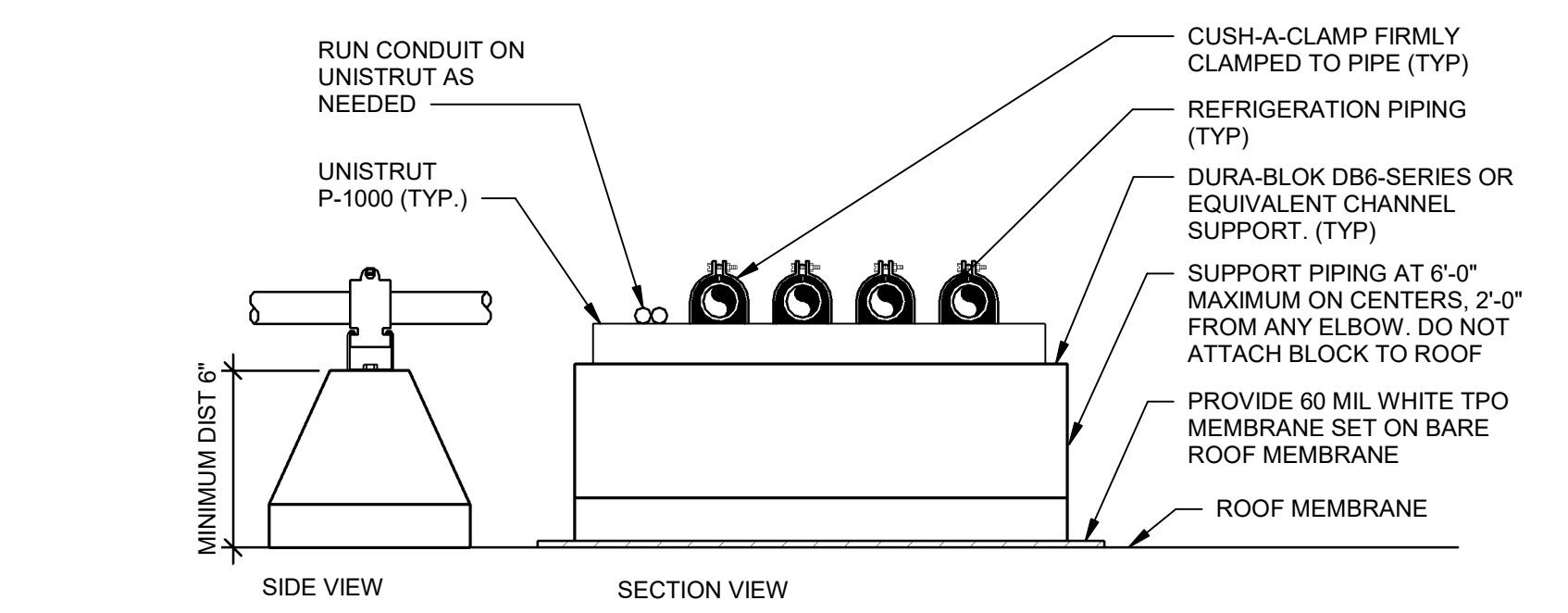
7 EVAPORATOR COIL CONDENSATE PIPING  
 NTS



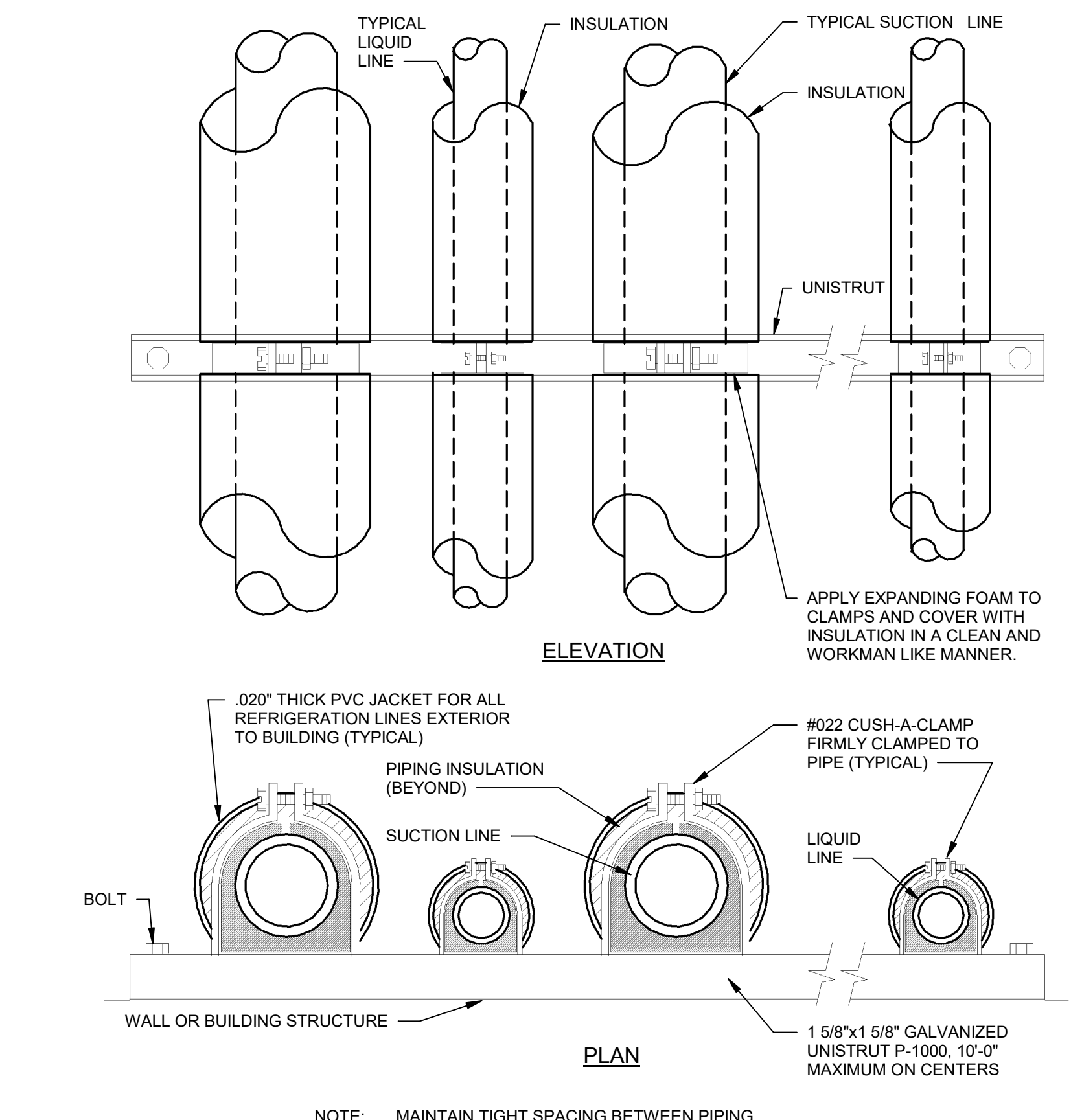
5 EVAPORATOR FAN/COIL UNIT WITH CONTROL VALVES  
 NTS



8 VERTICAL SUCTION DOUBLE RISER  
 NTS



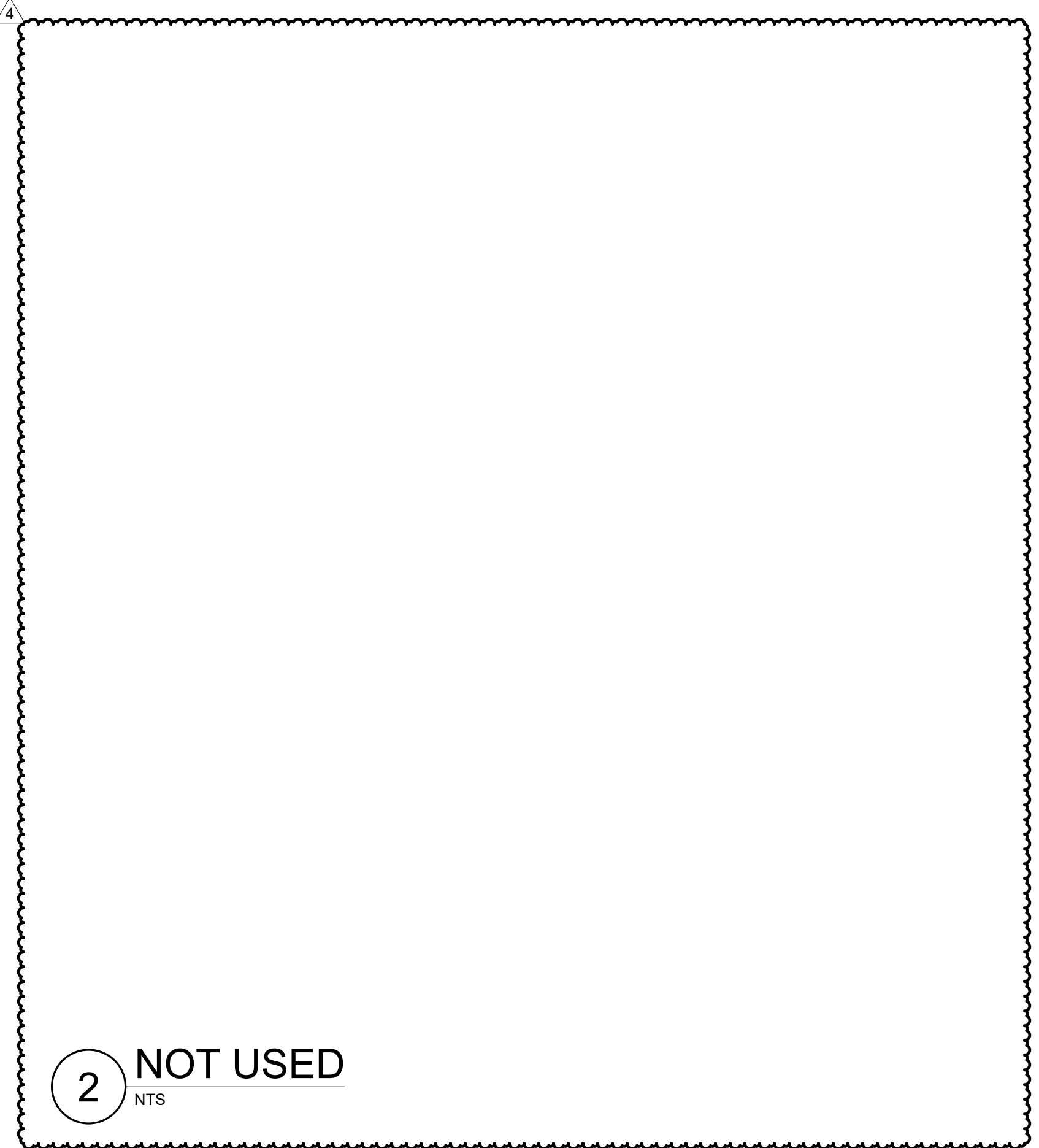
6 REFRIGERATION PIPING SUPPORT (ON ROOF)  
 NTS



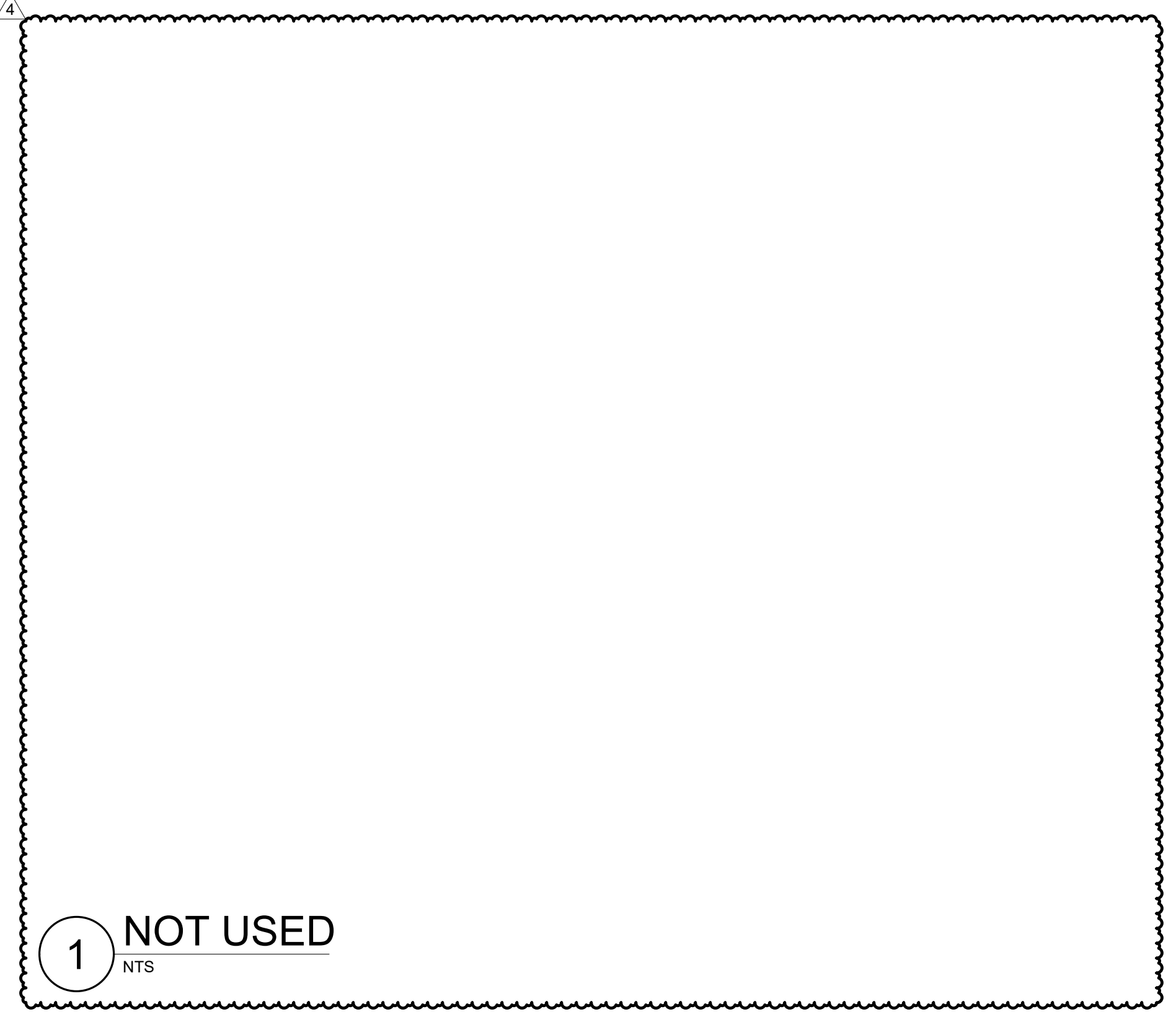
4 VERTICAL REFRIGERANT LINE SUPPORT  
 NTS



3 NOT USED  
 NTS



2 NOT USED  
 NTS

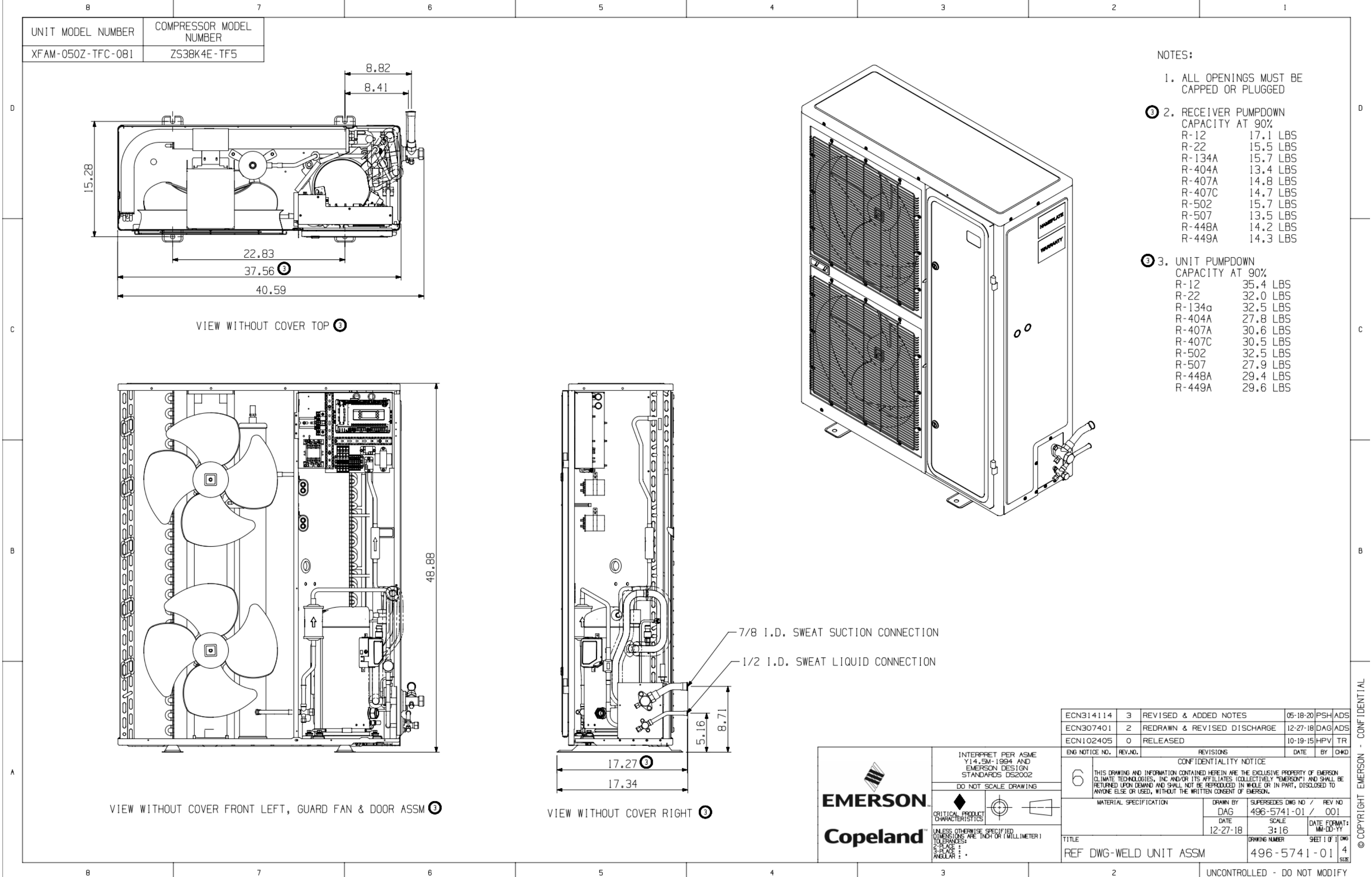


1 NOT USED  
 NTS

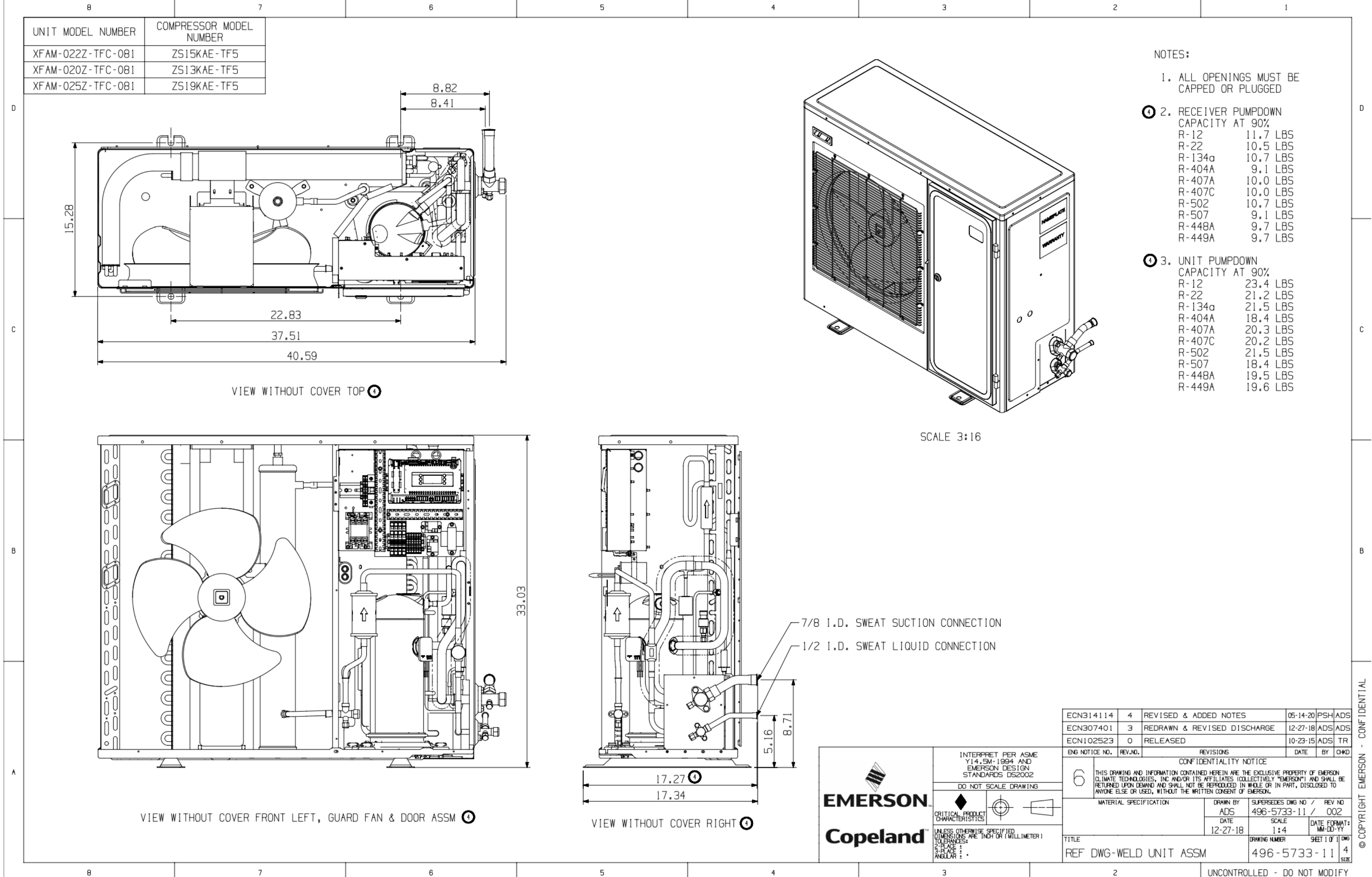
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<b>HUSSMANN®</b>											CUSTOMER: Walmart									
STORE: #2403											CONTACT: Keith Exler									
LOCATION: Puyallup, Washington, USA											SALESMAN: Keith Exler									
QUOTE / JOB #: CRM146377											ENGINEER: Josh Lurk									
DNO	SYS #	REFRIGERATOR/UNIT COOLER			DIS AIR TMP	RECD CAP (MBH)	EVP TMP	DEF TYP	DEF TER	WEIGHT LBS	UNIT SIZES SHEET	DESIGN CONDITIONS		REF TYPE	CONDENSING UNIT		CONDENSING UNIT DATA		UNIT MCA	UNIT MOPD
		SIZE	MODEL	DESCRIPTION								MID POINT SST	COND DEG F		MODEL#	CAP MBH	COMP KW	COND T		
	RCU2	16 x 16 x 10	KRD64E-220TDAK	Pickup Freezer W.I.	-10	16.60	-18	EL	333	40.6Lx17.3Wx48.9H	-21	96 AMBIENT	R448A	XFAM-0502-TFC-081	19.8	111	208-230V/3P/60Hz	28.8	45	
			KE2	SHIP LOOSE INCLUDES: (1) EE 120V LLSV (1) 7/8 SUCTION FILTER																
	RCU3	18 x 16 x 10	GLD6D-268TDA	Pickup Cooler W.I.	34	15.00	28	EL	226	40.6Lx17.3Wx35H	28	96 AMBIENT	R448A	XFAM-0222-TFC-081	17.6	111	208-230V/3P/60Hz	14.3	20	
			KE2	SHIP LOOSE INCLUDES: (1) EE 120V LLSV (1) 7/8 SUCTION FILTER																
	RCU2	16 x 16 x 10	KRD64E-220TDAK	Pickup Freezer W.I.	-8	16.60	-16	EL	333	40.6Lx17.3Wx48.9H	-19	96 AMBIENT	R448A	XFAM-0502-TFC-081	20.8	111	208-230V/3P/60Hz	28.8	45	
			KE2	SHIP LOOSE INCLUDES: (1) EE 120V LLSV (1) 7/8 SUCTION FILTER																

**RCU2/RCU4**



**RCU3**



3/7/2023 1:08:04 PM 3740 - RA - REFRIGERATION SUBMITTALS - 2403-278

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CONSULTANTS

**Walmart\***  
**PUYALLUP, WA**  
 310 31ST AVENUE SE, PUYALLUP, WA 98374  
 STORE NO. 2403-278  
 WALGPP402  
 PROTO. 192.GROCCERY EXP  
 JOB NUMBER:

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NOTE: THE INFORMATION ON THIS SHEET IS SUPPLIED BY THE OEM AND DESCRIBES THE COMPRESSORS, RACKS, AND REFRIGERATION CONTRACTOR. REFER TO THE REFRIGERATION CONTRACTOR FOR ALL INFORMATION WITH ODM BEFORE INSTALLATION.

REFRIGERATION SUBMITTALS

OEM SUBMITTALS REVISED.

SHEET: **R4**

### ELECTRICAL SYMBOLS LEGEND

SYMBOL	DESCRIPTION
	LIGHT FIXTURE (WALL MOUNTED/CEILING MOUNTED)
	LIGHT FIXTURE
	LIGHT FIXTURE, NIGHT LIGHT
	VOLUMETRIC LIGHT FIXTURE
	TRACK LIGHTING
	EXIT FIXTURE (WALL MOUNTED/CEILING MOUNTED)
	EMERGENCY LIGHT (WALL MOUNTED/CEILING MOUNTED)
	EMERGENCY LIGHT REMOTE HEADS (WALL MOUNTED/CEILING MOUNTED)
	SINGLE POLE SWITCH
	3-WAY SWITCH
	4-WAY SWITCH
	KEYED SWITCH
	DIMMER SWITCH
	VARIABLE SPEED SWITCH
	MANUAL MOTOR SWITCH
	SINGLE POLE OCCUPANCY SENSOR SWITCH
	DOUBLE POLE OCCUPANCY SENSOR SWITCH
	CEILING MOUNTED OCCUPANCY SENSOR SWITCH, FOUR-DIRECTION SENSING
	WALL MOUNTED OCCUPANCY SENSOR SWITCH, ONE-DIRECTION SENSING
	RECEPTACLE, DUPLEX
	RECEPTACLE, DUPLEX, MOUNTED HORIZONTALLY
	RECEPTACLE, GFI
	RECEPTACLE, DUPLEX FLUSH FLOOR
	RECEPTACLE, DUPLEX ISOLATED GROUND FLUSH FLOOR
	RECEPTACLE, DOUBLE DUPLEX
	RECEPTACLE, DUPLEX ISOLATED GROUND
	RECEPTACLE, DOUBLE DUPLEX, ISOLATED GROUND
	RECEPTACLE, SIMPLEX TWIST LOCK, L5-15R, UNO
	RECEPTACLE, SIMPLEX TWIST LOCK, ISOLATED GROUND, L5-15R, UNO
	RECEPTACLE, DUPLEX TWIST LOCK, L5-15R, UNO
	RECEPTACLE, DUPLEX TWIST LOCK ISOLATED GROUND, L5-15R, UNO
	RECEPTACLE, SPECIAL
	RECEPTACLE, SIMPLEX
	RECEPTACLE, PLUG-MOLD
	JUNCTION BOX (WALL MOUNTED/CEILING MOUNTED)
	THERMOSET (WALL MOUNTED/CEILING MOUNTED)
	ALARM JUNCTION BOX, (WALL MOUNTED/CEILING MOUNTED)
	ALARM JUNCTION BOX, FOR REMOTE TEST/RESET (WALL MOUNTED/CEILING MOUNTED)
	SMOKE DETECTOR
	NON-FUSED DISCONNECT
	FUSED DISCONNECT
	EQUIPMENT CONNECTION POINT (PROVIDED WITH EQUIPMENT)
	CIRCUIT, CONCEALED IN WALLS OR CEILING, C INDICATES EXISTING WIRING
	CIRCUIT, CONCEALED IN SLAB FLOOR, E INDICATES EXISTING WIRING
	CIRCUIT, EXPOSED, E INDICATES EXISTING WIRING
	LOW VOLTAGE WIRING
	CONDUIT SLEEVE
	FLUSH MOUNTED PANELBOARD
	SURFACE MOUNTED PANELBOARD
	TELEPHONE / DATA BOX FOR ISD
	LOW VOLTAGE CABLE BOX FOR OTHER
	TELEPHONE, FLUSH FLOOR
	MOTOR
	TELEPOWER POLE
	PUSH BUTTON
	BUZZER
	SAIL SWITCH
	JUNCTION BOX
	HORN / STROBE
	DOOR HOLD OPEN
	TIME CLOCK

ABBREVIATIONS	
a, b, c	LOWER CASE LETTERS INDICATE SWITCHING CONFIGURATION
ABF	ABOVE FINISHED GRADE
AFG	ABOVE FINISHED GRADE
C	CONDUIT
CCT	CIRCUIT
CF	CEILING FAN
CW	CASH WRAP
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
ETR	EXISTING TO REMAIN
EW	ELECTRIC WATER COOLER
G	GROUND
GC	GENERAL CONTRACTOR
GFEP	GROUND FAULT EQUIPMENT PROTECTION
GFI	GROUND FAULT CIRCUIT INTERRUPTER
HD	HAND DRYER
IG	ISOLATED GROUND
LCU	LIGHTING CONTROL UNIT
NL	NIGHT LIGHT
NFS	NOT TO SCALE
REC	REFRIGERATION ELECTRICAL CONTRACTOR
RC	REFRIGERATION CONTRACTOR
RH	RADIANT HEATER
SC	SECURITY CAMERA
TR	TAMPER RESISTANT
TYP	TYPICAL
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
WH	WATER HEATER
WP	WEATHER PROOF
WR	WEATHER RESISTANT

### GENERAL LIGHTING NOTES

- EXIT SIGN MOUNTING
  - WALL FIXTURE: CENTER 12" ABOVE DOOR OPENING.
  - CEILING FIXTURE: ON CEILING OR AT HEIGHT SPECIFIED ON DRAWINGS.
  - PENDANT FIXTURE: MATCH HEIGHT OF EXISTING PENDANT MOUNTED EXIT SIGNS. IF STORE DOES NOT HAVE PENDANT MOUNTED EXIT SIGNS, THEN PENDANT MOUNT SIGN 24" BELOW BOTTOM OF BAR JOIST.
  - VERIFY MOUNTING HEIGHT WITH A.H.J.
  - COORDINATE LOCATIONS OF EXIT SIGNS TO ENSURE STORE SIGNAGE DOES NOT OBSTRUCT THEIR VIEW.
  - THE USE OF TRITIUM BASED RADIOACTIVE EXIT SIGNAGE IS PROHIBITED.
- EMERGENCY LIGHT FIXTURE INSTALLATION
  - WALL FIXTURE: 12" BELOW FINISHED CEILING OR 4" IN AREAS OF EXPOSED STRUCTURE, UNLESS NOTED OTHERWISE.
  - PENDANT FIXTURE: BOTTOM CHORD OF BAR JOIST OR AT HEIGHT SPECIFIED ON DRAWINGS.
  - REMOTE HEAD FIXTURE: HEADS CENTERED ABOVE DOOR OPENING 4'-0". UNLESS NOTED OTHERWISE AND BATTERY PACK MOUNTED ON INTERIOR SIDE OF WALL 12" BELOW FINISHED CEILING OR AT BAR JOIST IN AREAS OF EXPOSED STRUCTURE.
  - REFER TO MANUFACTURER'S WRITTEN INSTRUCTIONS, ALLOW BATTERY TO CHARGE CONTINUOUSLY FOR A MINIMUM OF 24 HOURS BEFORE INITIAL TESTING.
  - AFTER EMERGENCY LIGHT HAS BEEN POWERED, DO NOT TURN OFF FOR EXTENDED PERIODS OF TIME.
- EXIT SIGNS, EMERGENCY LIGHTS AND NIGHT LIGHTS SHALL NOT BE SWITCHED.
- IN AREAS OF OPEN STRUCTURE, MOUNT STRIP FIXTURE TO BOTTOM CHORD OF BAR JOIST, UNLESS NOTED OTHERWISE.
- PROVIDE SEPARATE BOXES FOR GANGED SWITCHES ON SEPARATE BRANCH CIRCUITS.
- FIXTURES DENOTED WITH "A.N.P." ARE TO BE FASTENED ON UNISTRUT CHANNELS MOUNTED TO THE BOTTOM SIDE OF THE TOP CHORD OF BAR JOISTS. LOCATE THE FIXTURES RUNNING PERPENDICULAR TO BAR JOISTS WITHIN BAR JOISTS WEBBING SPACES. DO NOT FASTEN FIXTURE OR UNISTRUT CHANNELS TO ROOF DECK.

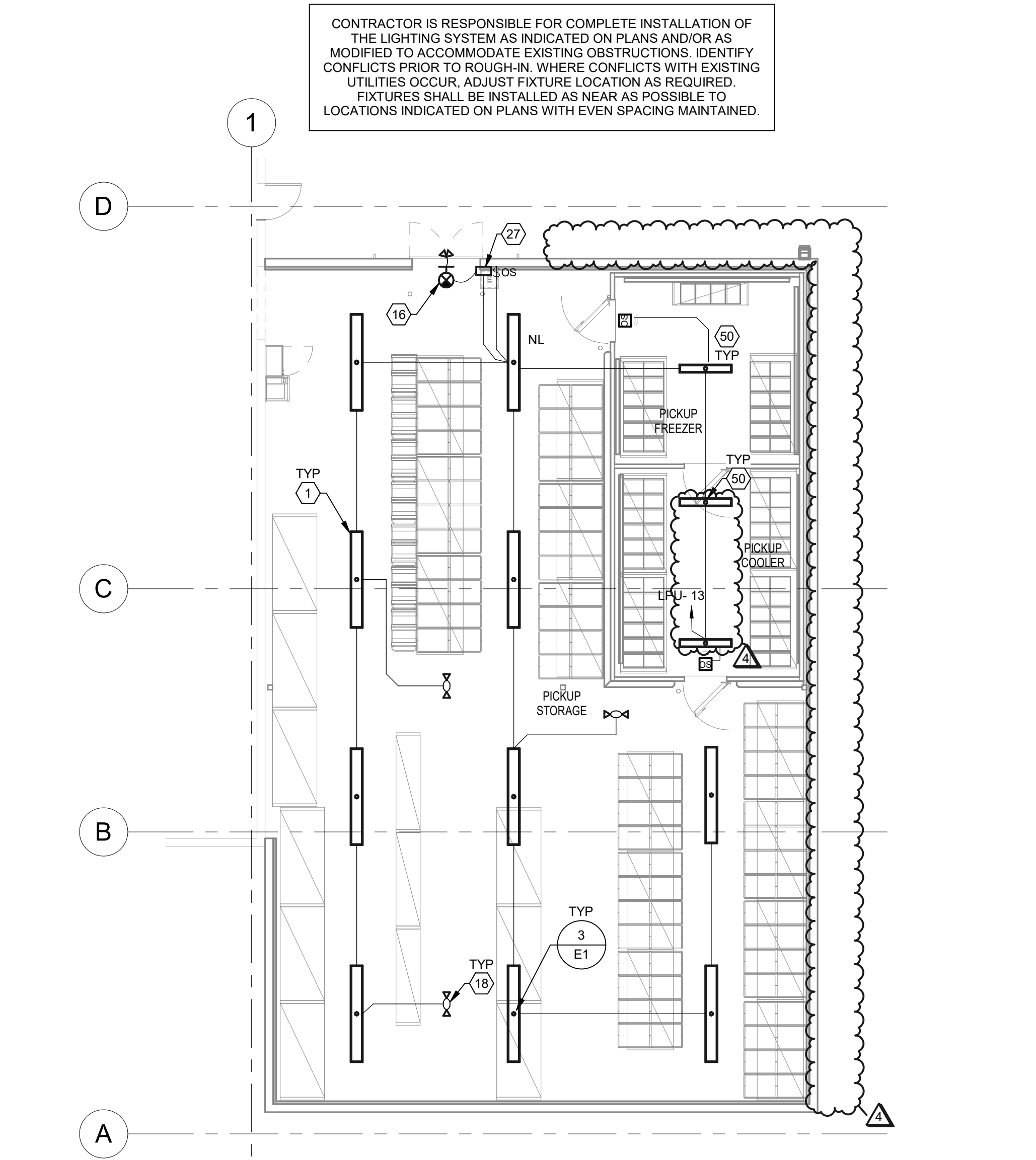
### OCCUPANCY SENSOR NOTES

- OCCUPANCY SENSORS IN RESTROOMS SHALL BE PROGRAMMED FOR AUTOMATIC ON AND MAXIMUM AVAILABLE TIME DELAY SETTINGS.
- OCCUPANCY SENSORS IN DELI, PRODUCE, AND BAKERY PREP AREAS SHALL BE PROGRAMMED WITH MAXIMUM AVAILABLE TIME DELAY SETTINGS.
- OCCUPANCY SENSORS IN WALK-IN COOLERS/FREEZERS SHALL BE LOW TEMPERATURE RATED, WALL MOUNTED 6" ABOVE DOOR. ADJUST AIMING FOR MAXIMUM COVERAGE, 10 MINUTE TIME DELAY.
- ALL OTHER OCCUPANCY SENSORS SHALL BE PROGRAMMED WITH THE MINIMUM AVAILABLE TIME DELAY SETTING UNLESS NOTED OTHERWISE.
- ALL SINGLE-POLE OCCUPANCY SENSORS SHALL BE PROGRAMMED FOR MANUAL ON LIGHTING CONTROL UNLESS NOTED OTHERWISE.
- ALL BLEVEL OCCUPANCY SENSORS SHALL BE PROGRAMMED FOR AUTOMATIC ON LIGHTING CONTROL FOR 50% OF FIXTURES AND WITH MANUAL ON MODE FOR REMAINING FIXTURES.
- WHERE TWO OCCUPANCY SENSORS ARE SHOWN IN THE SAME LOCATION WIRE FOR PARALLEL OPERATION.

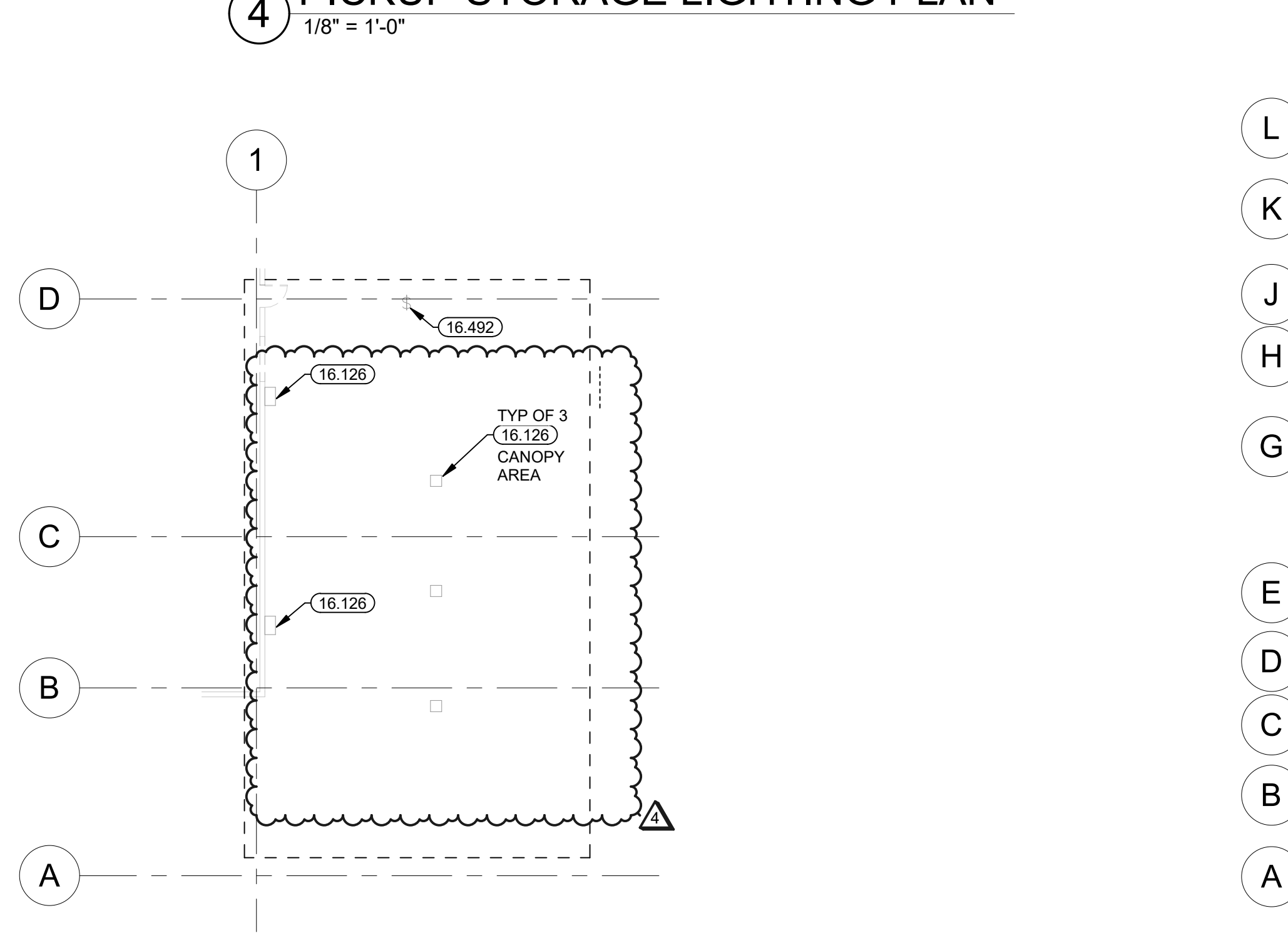
### LIGHT FIXTURE SCHEDULE

TYPE	SUPPLIED BY	DESCRIPTION	VENDOR / MANUFACTURER	MODEL	VOLTAGE	INPUT VA	COLOR TEMP	LIGHT SOURCE	LAMP QTY	MOUNTING
1	OW	8' STRIP (WIRELESS DIM)	ACUITY BRANDS LIGHTING INC.	CLX L96 1000DLM HEF RDL MVOLT EDHN 40K 80CRI	120/277	67 VA	4000K	INTEGRAL LED	-	SURFACE
18	OW	EMERGENCY LIGHT	REXEL USA INC.	EVH061DP-W/M	120/277	3 VA	-	INTEGRAL LED	-	WALL / CEILING
27	OW	EMERGENCY LIGHT - REMOTE HEADS	REXEL USA INC.	EVH061DP-S-W/M W/ EVDOW	120/277	3 VA	-	INTEGRAL LED	-	WALL
50	OW	4" SEALED STRIP	LSI INDUSTRIES INC.	W/M EGS 4-LED 8L DA 5 UNV DIM 40 980 SL	120/277	50 VA	4000K	INTEGRAL LED	-	SURFACE

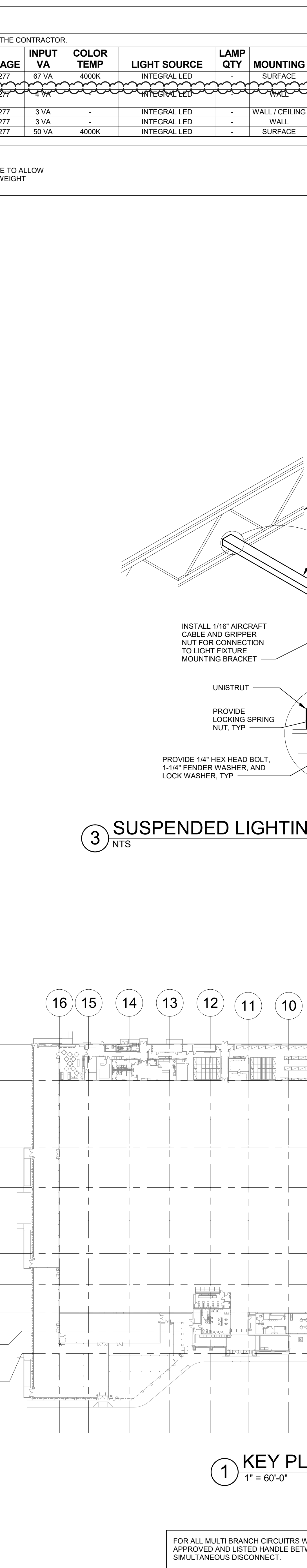
LIGHT FIXTURE NOTES (APPLIES TO ALL LIGHT FIXTURES):  
 A. SUPPORT ALL RECESSED OR LAY-IN LIGHT FIXTURES DIRECTLY FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE, WITH A MINIMUM OF TWO 12-GAUGE STEEL WIRES LOCATED AT DIAGONALLY OPPOSITE CORNERS. FIXTURE SUPPORT WIRES MAY BE SLIGHTLY LOOSE TO ALLOW THE FIXTURE TO SEAT IN THE GRID SYSTEM. ATTACH LIGHT FIXTURES TO THE SUSPENDED CEILING SYSTEM TO RESIST 100 PERCENT OF THE FIXTURE WEIGHT ACTING IN ANY DIRECTION. COMPLETE IN ACCORDANCE WITH APPLICABLE BUILDING CODE REQUIREMENTS.



**4 PICKUP STORAGE LIGHTING PLAN**  
1/8" = 1'-0"



**2 PICKUP STORAGE LIGHTING DEMO PLAN**  
1/16" = 1'-0"



FOR ALL MULTI BRANCH CIRCUITS WITH SHARED NEUTRAL PROVIDE APPROVED AND LISTED HANDLE BETWEEN CIRCUIT BREAKERS FOR SIMULTANEOUS DISCONNECT.

### KEYNOTES

- EXISTING LIGHTING FIXTURES NOT SHOWN AS EXISTING TO REMAIN AND ARE NOT AFFECTED BY THE SCOPE OF WORK ON THIS PROJECT. THIS INCLUDES ALL GENERAL LIGHTING, EGRESS LIGHTING AND EXIT LIGHTING.
- EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACCURATELY REFLECT EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY RECONSTRUCT WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.
- EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACCURATELY REFLECT EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY RECONSTRUCT WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.
- REMOVE OR RELOCATE EXISTING ELECTRICAL EQUIPMENT, CONDUIT AND CONDUCTORS AS INDICATED ON THE DRAWINGS, OR ONLY AS REQUIRED BY DEMOLITION. REMOVE ALL PANELBOARDS, DISCONNECT SWITCHES, BOXES, RELAYS, TIME SWITCHES, LIGHTS, DEVICES, ETC., WHICH WILL NOT BE REUSED.
  - SALES FLOOR: REMOVE UNUSED POWER DROP CONDUIT, CONDUCTORS AND RELATED DEVICES SERVING SALES AREA GONDOLAS BEING RELOCATED OR REMOVED. EXISTING CONDUIT AND CONDUCTORS MAY BE REUSED FOR NEW POWER DROPS WHERE SIZE, RATING, AND CONDITION MEET REQUIREMENTS INDICATED ON PLANS AND ALL U.I. RATINGS. REMOVE ALL UNUSED CONDUIT AND CONDUCTORS BACK TO POINT OF ORIGIN WHENEVER FEASIBLE. IF CIRCUIT IS NOT REUSED, REMOVE CIRCUIT BREAKER AND REPLACE WITH FILLER PLATE. EXCEPTION: DISTRIBUTION AND POWER SWITCH BREAKERS SHALL BE ETR AS "SPARE"; PROVIDE HANDLE LOCK OFF DEVICE TO LOCK "SPARE" CIRCUIT BREAKER IN THE "OFF" POSITION. UPDATE TYPED CIRCUIT IDENTIFICATION SCHEDULE AS "SPACE" OR "SPARE".
  - CONDUIT AND WIRING TO BE ABANDONED IN CEILING SPACES AND OTHER NON-PUBLIC AREAS (I.E. THROUGH STOCKROOM AREA); CUT WIRING LOOSE AND REMOVE FROM RACEWAY(S), LEAVING RACEWAY(S) IN PLACE. CONDUIT TO BE ABANDONED IN WALLS OR FLOORS SHALL BE REMOVED BACK TO FINISHED SURFACE AND CAPPED INSIDE. REPAIR SURFACE(S) TO MATCH ADJACENT.
  - ALL CIRCUIT BREAKERS SERVING BRANCH CIRCUITS TO BE REMOVED SHALL ALSO BE REMOVED. REMOVE CIRCUIT BREAKER AND REPLACE WITH FILLER PLATE. EXCEPTION: DISTRIBUTION AND POWER SWITCH BREAKERS SHALL BE ETR AS "SPARE"; PROVIDE HANDLE LOCK OFF DEVICE TO LOCK "SPARE" CIRCUIT BREAKER IN THE "OFF" POSITION. UPDATE TYPED CIRCUIT IDENTIFICATION SCHEDULE AS "SPACE" OR "SPARE".
  - DEMOLISHED FLUORESCENT LIGHT FIXTURES: REFER TO SELECTIVE SITE DEMOLITION PHASE AND DISPOSAL OF LIGHT FIXTURE.
  - BUILDING COMPONENTS ABANDONED BY THE SCOPE OF WORK SHALL BE SECURED TO PREVENT FALLING, LOOSENING, OR CREATING DAMAGE OF ANY KIND IN THE FUTURE.
  - DATA AND PHONE CONDUIT INSTALLATION MILESTONE DATE: ALL RACEWAY AND CONDUIT SLEEVES FOR DATA AND PHONE CABBING TO BE INSTALLED 3 WEEKS PRIOR TO CONTRACT SUBSTANTIAL COMPLETION DATE.
  - ETHERNET CABLE
    - FURNISH AND INSTALL JUNCTION BOXES AS SHOWN ON PLANS. PROVIDE CONDUIT AS REQUIRED BY LOCAL CODES AND/OR ORDINANCES.
    - ETHERNET CABLE IS FURNISHED BY OTHERS.
    - ELECTRICAL CONTRACTOR SHALL INSTALL CABLE IN POWER POLES.
    - ELECTRICAL CONTRACTOR SHALL INSTALL OTHER CABLE AS DIRECTED BY WALMART CONSTRUCTION MANAGER.

### GENERAL NOTES

- FURNISH AND INSTALL ALL MATERIALS, EQUIPMENT, AND LABOR, FOR A COMPLETE INSTALLATION IN ALL RESPECTS. READY FOR INTENDED USE AND IN STRICT ACCORDANCE WITH NEC, NESC, STATE, AND LOCAL CODES, AND MANUFACTURER'S RECOMMENDATIONS. PAY ALL NECESSARY FEES AND PERMITS.
  - NO CIRCUITRY SHALL BE ALLOWED TO BE ROUTED ACROSS THE ROOF OR THE EXTERIOR SIDE OF THE BUILDING.
  - ALL EQUIPMENT SHALL BE UL LISTED WHERE APPLICABLE.
  - ARRANGE ALL WORK TO MINIMIZE DISRUPTIONS TO STORE OPERATIONS. COORDINATE ALL WORK WITH WALMART CONSTRUCTION MANAGER AND STORE MANAGER.
  - CONTRACTOR SHALL VERIFY ALL WALL FINISH THICKNESS BEFORE INSTALLING BOXES. FURNISH AND INSTALL EXTENDED BOXES OR BOX EXTENDERS WHERE REQUIRED.
  - CONTRACTOR SHALL VERIFY THAT ALL AFFECTED PANELBOARDS HAVE CIRCUIT BREAKERS PROPERLY COVERED AND THAT ALL TRIM IS IN GOOD CONDITION, ALLOWING NO ACCESS TO LIVE PARTS.
- PROVIDE SEALS AT RACEWAY PENETRATIONS AS FOLLOWS:
  - FIRE RATED WALLS: SEAL PER SPECIFICATIONS FOR FIRE STOPPING.
  - NEUTRALIZATION AREA: SEAL PER MECHANICAL DETAIL.
  - FREESTER/COOLER BOXES: SEAL WITH EXPANDING FOAM SEALANT.
  - EXTERIOR: REFER TO ARCHITECTURAL DOCUMENTS FOR SEALING REQUIREMENTS AT ALL EXTERIOR MOUNTED DEVICES, FIXTURES, ENCLOSURES, AND RACEWAY PENETRATIONS.
- PROVIDE A SEPARATE EQUIPMENT GROUNDING CONDUCTOR (SIZE PER NEC) IN PVC TYPE CONDUIT, POWER AND LIGHTING CIRCUITS, ISOLATED GROUND CIRCUITS, OR AS SHOWN ON PLANS. CONDUIT SHALL BE SIZED PER NEC BASED ON THWIM 600 VOLT COPPER SINGLE CONDUCTORS, PLUS THE EQUIPMENT GROUNDING CONDUCTOR.
- WIRING DEVICES: DEVICE MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO CENTER OF OUTLET BOX UNLESS NOTED OTHERWISE ON PLANS. COORDINATE THE STANDARD MOUNTING HEIGHTS WITH MASONRY:
  - SWITCHES +44"
  - RECEPTACLES -20"
  - VOLUME/ DATA +20"
- WIRING SHALL INCLUDE FINAL CONNECTION TO ALL EQUIPMENT IN CONFORMANCE WITH EQUIPMENT SUPPLIER WIRING DIAGRAMS.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING AN UPDATED AND COMPLETE TYPED CIRCUIT IDENTIFICATION SCHEDULE FOR EVERY PANELBOARD AFFECTED BY THIS PROJECT.
- NEW OVERCURRENT PROTECTIVE DEVICES INSTALLED IN EXISTING PANELBOARDS OR DISTRIBUTION BOARDS SHALL MATCH THE TYPE AND AIC RATING OF EXISTING OVERCURRENT PROTECTIVE DEVICES.
- BRANCH CIRCUIT CONDUCTORS SHALL BE MINIMUM #12 AWG UNLESS NOTED OTHERWISE IN SCHEDULES, WHERE 20A BRANCH CIRCUITS HAVE #8 AND LARGER WIRE SPECIFIED, #10 AWG WIRE SHALL BE USED FOR THE FINAL CONNECTION (15-FT MAXIMUM).
- WHERE BRANCH CIRCUITS ARE GROUPED, SIZE CONDUIT AND DERATE CURRENT CARRYING CAPACITIES PER NEC.
- PROVIDE UL LISTED HANDLE TIES ON ALL MULTIWIRE BRANCH CIRCUITS PER NEC REQUIREMENTS.
- SUPPORTS FROM STRUCTURE: NO ATTACHMENT OF ANY TYPE SHALL BE MADE TO BRIDGING OR JOIST WEB MEMBERS. UTILIZE ONLY THE TOP AND BOTTOM CHORDS FOR SUPPORTING THE ELECTRICAL SYSTEM INSTALLATIONS.
- DEVICES SHOWN ON COOLER/FREEZER PANELS SHALL BE SURFACE MOUNTED UNLESS NOTED OTHERWISE. SEAL DEVICES TO COOLER/FREEZER PANELS WITH SILICONE SEALANT.
- SURFACE MOUNTED CONDUIT ON COOLER/FREEZER PANELS OR IN FOOD PREP AREAS SHALL BE INSTALLED WITH GALVANIZED 1/2" STANDOFF CONDUIT HANGERS TO ALLOW FOR CLEANING.
- ONLY FEEDER CIRCUITS NOTED ON THE ONE LINE DIAGRAM AND BRANCH CIRCUITS NOTED BY LEGEND SHALL BE INSTALLED UNDER SLAB. PROVIDE EXTERIOR COATED GRC BENDS ON ALL CONDUIT RUNS THAT HAVE 45 DEGREE BENDS OR GREATER. REFER TO SPECIFICATION SECTION 16.100 FOR UNDER SLAB.
- SEISMIC ZONE REQUIREMENTS: PROVIDE EXPANSION COUPLINGS AND BRACING FOR ELECTRICAL EQUIPMENT AS REQUIRED BY LOCAL CODES.
- EXISTING ELECTRICAL AND ALARM:
  - WHERE DEMOLITION OR NEW CONSTRUCTION INTERRUPTS EXISTING ELECTRICAL CIRCUITS FEEDING EXISTING EQUIPMENT, DEVICES, OR LIGHTING TO REMAIN, BUT NOT SHOWN ON DRAWINGS, PROVIDE LABOR AND MATERIALS TO REWORK CIRCUITRY, AS REQUIRED, TO MAINTAIN EXISTING OPERATION.
  - IF DEMOLITION OR NEW CONSTRUCTION WILL DISRUPT EXISTING UNDERGROUND SERVICES (ELECTRICAL, TELEPHONE, PARKING LOT LIGHTING CIRCUITRY, ETC.) PROVIDE ALL MATERIALS AND LABOR AS REQUIRED TO REROUTE, SLEEVE, OR OTHERWISE REWORK THESE SERVICES TO MAINTAIN THEIR EXISTING OPERATION.
  - EXERCISE CAUTION AROUND ALARM AND SECURITY CABLES DURING DEMOLITION AND CONSTRUCTION. PROTECT ALARM AND SECURITY CABLES FROM ACCIDENTAL DAMAGE SO THAT SYSTEMS REMAIN OPERATIONAL AT ALL TIMES.
  - DISPOSE OF ALL REMOVED MATERIALS, UNLESS OTHERWISE NOTED.
- EXISTING ELECTRICAL DEMOLITION:
  - GENERAL: REMOVE OR RELOCATE EXISTING ELECTRICAL EQUIPMENT, CONDUIT AND CONDUCTORS AS INDICATED ON THE DRAWINGS, OR ONLY AS REQUIRED BY DEMOLITION.
  - REMOVE ALL PANELBOARDS, DISCONNECT SWITCHES, BOXES, RELAYS, TIME SWITCHES, LIGHTS, DEVICES, ETC., WHICH WILL NOT BE REUSED.
  - SALES FLOOR: REMOVE UNUSED POWER DROP CONDUIT, CONDUCTORS AND RELATED DEVICES SERVING SALES AREA GONDOLAS BEING RELOCATED OR REMOVED. EXISTING CONDUIT AND CONDUCTORS MAY BE REUSED FOR NEW POWER DROPS WHERE SIZE, RATING, AND CONDITION MEET REQUIREMENTS INDICATED ON PLANS AND ALL U.I. RATINGS. REMOVE ALL UNUSED CONDUIT AND CONDUCTORS BACK TO POINT OF ORIGIN WHENEVER FEASIBLE. IF CIRCUIT IS NOT REUSED, REMOVE CIRCUIT BREAKER AND REPLACE WITH FILLER PLATE. EXCEPTION: DISTRIBUTION AND POWER SWITCH BREAKERS SHALL BE ETR AS "SPARE"; PROVIDE HANDLE LOCK OFF DEVICE TO LOCK "SPARE" CIRCUIT BREAKER IN THE "OFF" POSITION. UPDATE TYPED CIRCUIT IDENTIFICATION SCHEDULE AS "SPACE" OR "SPARE".
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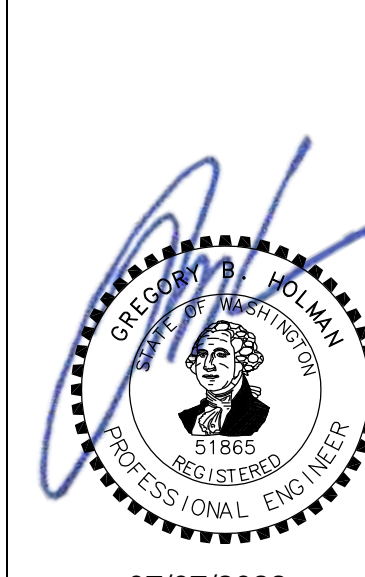
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CONSULTANTS  
Walmart  
PUYALLUP, WA  
310 31ST AVENUE SE, PUYALLUP, WA 98374  
STORE NO. 2403 - 278  
JOB NUMBER: WJALGPR02 | PHOTO: 192 GROCERY EXP

ISSUE BLOCK		
4	ADD#6	07/07/22

CHECKED BY: SG  
 DRAWN BY: SI  
 PHOTO CYCLE: 07/30/21  
 DOCUMENT DATE: 09/08/21



DOCUMENTS THAT DO NOT HAVE THE ARCHITECT OR ENGINEER OF RECORD SEAL AND SIGNATURE SHALL BE CONSIDERED NOT FOR CONSTRUCTION

### ELECTRICAL PLANS, DETAILS AND SCHEDULES

SHEET: **E1**

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CONSULTANTS

Walmart logo and address: 310 31ST AVENUE SE, PUYALLUP, WA 98374. STORE NO. 2403 - 278. WALGPM042 - PHOTO: 102 GROCERY EXP

ISSUE BLOCK table with columns for PR#, Description, and Date. Includes entries for PR#1, PR#2, and ADD#2.

CHECKED BY: SG
DRAWN BY: NS
PROTO CYCLE: 07/30/21
DOCUMENT DATE: 09/08/21



05/12/2022

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ELECTRICAL COMPLIANCE REPORT

LIGHTING COMPLIANCE SUMMARY

2018 WSEC Compliance Form for Commercial Buildings including Group R2, R3 & R4 over 3 stories and all R1. Project Title: WALGPM042\_2403-278\_WA\_Puyallup - 2018 WSEC. Date: Mar 16, 2022.

General Project Types table with columns for Building Addition, Alteration, and Compliance Method. Compliance Method 1 - General.

Lighting Compliance Scope and Method table. Compliance Verification: COMPLIES.

Lighting Power Calculation table. Compliance Method: Space by space. Compliance Verification: COMPLIES.

Proposed Lighting Power Density table. Total Proposed Watts (LPD + Display LPD): 820. Compliance Status: COMPLIES.

Proposed Fixtures Details table. Lists fixture types, IDs, quantities, and locations. Compliance Verification: COMPLIES.

Lighting, Motor and Electrical Requirements List, pg 1 of 10

2018 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1. Administered by 62022 NEEA. All rights reserved.

Table of requirements for lighting, motor, and electrical systems. Includes sections for Lighting Scope and Lighting Controls.

Lighting, Motor and Electrical Requirements List, pg 2 of 10

2018 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1. Administered by 62022 NEEA. All rights reserved.

Table of requirements for lighting, motor, and electrical systems. Includes sections for Lighting Controls and Occupant Sensor Controls.

Lighting, Motor and Electrical Requirements List, pg 3 of 10

2018 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1. Administered by 62022 NEEA. All rights reserved.

Table of requirements for lighting, motor, and electrical systems. Includes sections for Daylight Responsive Controls and Supplemental Task Lighting.

Lighting, Motor and Electrical Requirements List, pg 4 of 10

2018 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1. Administered by 62022 NEEA. All rights reserved.

Table of requirements for lighting, motor, and electrical systems. Includes sections for Exterior Lighting and Lighting Controls.

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT AS-BUILT CONDITIONS... CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD... CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.



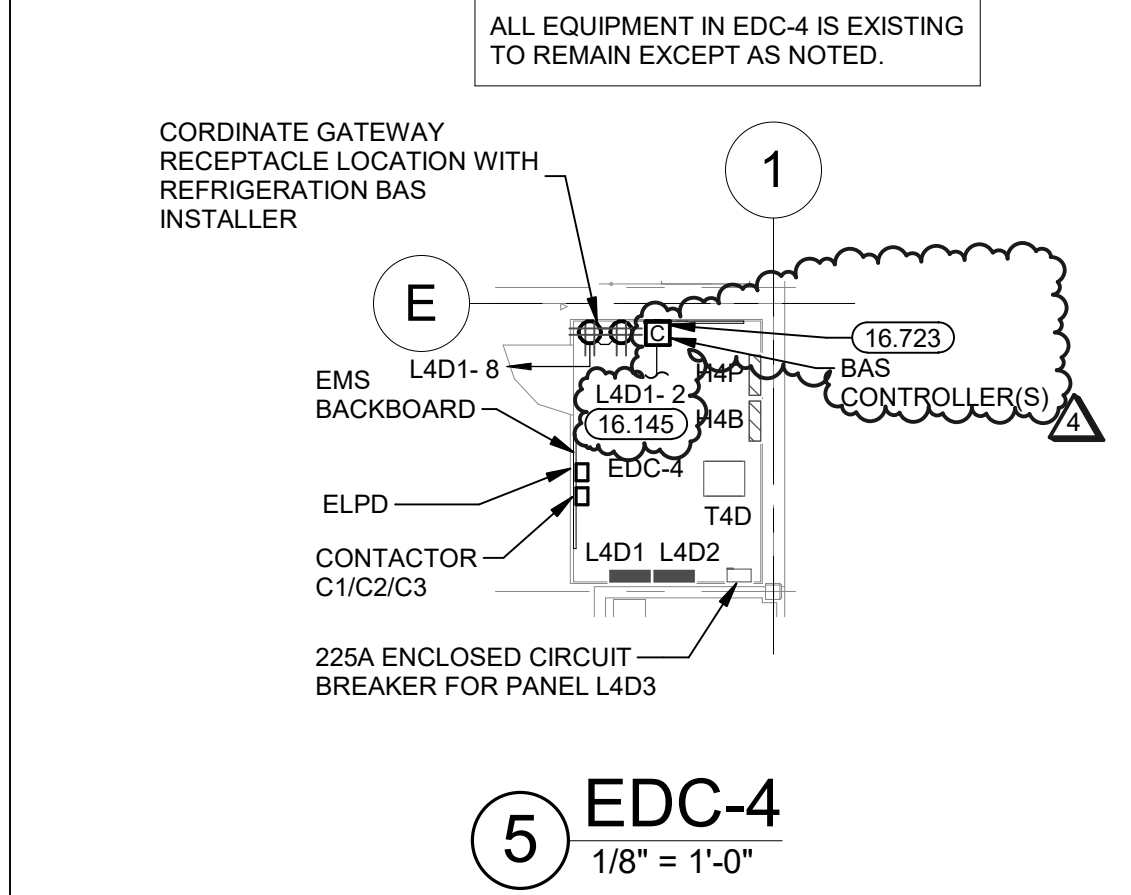
**GENERAL REFRIGERATION ELECTRICAL NOTES**

- COORDINATE ALL WORK WITH REFRIGERATION CONTRACTOR (R.C.) PRIOR TO INSTALLATION.
- REFRIGERATED CASES: E.C. SHALL PROVIDE CONDUIT AND WIRE FOR REFRIGERATED CASE FANS, LIGHTS AND ANTI-SWEAT HEATERS, AND (IF APPLICABLE) ELECTRICAL DEFROST. PROVIDE ADEQUATE CONDUCTOR LENGTH TO ALLOW TERMINATION. NEATLY BUNDLE CIRCUITS AND CLEARLY TAG AND LABEL EACH CIRCUIT WITH BRANCH CIRCUIT DESIGNATION AND REFRIGERATION SYSTEM NUMBER FOR FINAL TERMINATION AT CASE BY R.C. REF CASE CONNECTION WIRING DETAIL.
- IF NEW CASES ARE PROVIDED WITH A FACTORY INSTALLED TERMINAL STRIP AND JUMPERS FOR CONNECTION TO A SINGLE CIRCUIT FOR 120V CASE LOADS, R.C. SHALL REMOVE FACTORY INSTALLED JUMPERS AS REQUIRED TO UTILIZE EXISTING SEPARATE 120V FAN/LIGHT/ANTI-SWEAT CIRCUITS AS INDICATED ON PLANS AND/OR PANELBOARD SCHEDULES. ANY EXISTING ANTI-SWEAT CONTROL (SWEATMISER) SHALL BE BY-PASSED. CASES UTILIZING ELECTRICAL DEFROST WILL BE PROVIDED WITH SEPARATE 208V TERMINATIONS AT THE TERMINAL STRIP FOR CONNECTION TO THE 208V ELECTRIC DEFROST CIRCUIT. R.C. SHALL MAKE FINAL TERMINATIONS OF 120V AND 208V POWER CIRCUITS AT CASE TERMINAL STRIP. REFER TO CASE CONNECTION SCHEMATIC ON REFRIGERATION SHEETS.
- WALK-IN UNITS: PROVIDE CONDUIT AND WIRE FOR EVAPORATOR COIL FANS (CF) AND (IF APPLICABLE) ELECTRIC DEFROST (ED). PROVIDE ADEQUATE CONDUCTOR LENGTH TO ALLOW TERMINATION. NEATLY BUNDLE CIRCUITS AND CLEARLY TAG AND LABEL EACH CIRCUIT WITH BRANCH CIRCUIT DESIGNATION AND REFRIGERATION SYSTEM NUMBER FOR FINAL TERMINATION AT CASE BY R.C. REF EVAPORATOR COIL WIRING DETAIL.
- ROUTE REFRIGERATED CASE AND WALK-IN UNIT COIL FAN, LIGHTS, ANTI-SWEAT AND DEFROST BRANCH CIRCUITS TO WIREWAYS PROVIDED AT REFRIGERATION EQUIPMENT AND/OR PANELBOARDS AS REQUIRED.
- REFRIGERATED CASE WIRING COMPARTMENT REPRESENTED ON DRAWING BY JUNCTION BOX.
- KEEP PENETRATIONS THROUGH WALK-IN UNITS TO A MINIMUM. ROUTE ALL CONDUITS SERVING FREEZERS AND COOLERS ON INSIDE OF BOX.
- ALL CONDUITS INSTALLED ON TOP OF WALK-IN UNITS SHALL BE A MINIMUM OF 6" FROM ANY EDGE TO ALLOW SPACE FOR EDGE PROTECTION NETTING. DO NOT ROUTE CONDUITS ABOVE THE CEILING GRID ACCESS UNLESS CONDUITS ARE INSTALLED IN JOIST SPACE. REF ARCH.
- UNDERSLAB CIRCUITS SHALL NOT BE ROUTED UNDER WALK-IN FREEZERS AND SHALL BE ROUTED ABOVE REFRIGERANT LINES WHERE THEY CROSS.
- CIRCUITS FOR REFRIGERATED CASES SERVED BY UNDERSLAB REFRIGERATION PIPING ARE TO BE ROUTED UNDERSLAB AND EXTENDED TO THE FIRST CASE IN EACH SYSTEM. WIRING AND CONDUIT FOR SLAVE WIRING BETWEEN CASES SHALL BE PROVIDED BY R.C. REFER TO UNDERSLAB CASE CONNECTION WIRING DETAIL.
- ALL UNDERSLAB CONDUITS SHALL BE 3/4" MIN.
- CIRCUITS FOR REFRIGERATED CASES SERVED BY OVERHEAD REFRIGERATION PIPING ARE TO BE ROUTED DOWN FROM STRUCTURE AT THE SAME LOCATION AS THE REFRIGERATION PIPING AND EXTENDED TO THE FIRST CASE IN EACH SYSTEM. WIRE AND CONDUIT FOR SLAVE WIRING BETWEEN CASES SHALL BE PROVIDED BY THE R.C. REFER TO OVERHEAD CASE CONNECTION WIRING DETAIL.
- ON GROUPS OF THREE OR MORE REFRIGERATED CASES WITH ELECTRIC DEFROST, R.C. SHALL CONNECT CASES TO CREATE A THREE-PHASE HEATER CIRCUIT. HEATER LOADS SHALL BE BALANCED BETWEEN PHASES AS EVENLY AS POSSIBLE. REF CASE DEFROST WIRING DETAIL.
- PROVIDE A SEPARATE NEUTRAL FOR EACH NEW BRANCH CIRCUIT SERVING REFRIGERATED CASES OR WALK-IN UNITS AS INDICATED ON PLANS.
- PROVIDE CIRCUIT BREAKER LOCKING DEVICE (LOCK-OFF FOR MAINTENANCE) ON NEW AND/OR EXISTING CIRCUIT BREAKERS SERVING REFRIGERATED CASES.
- REFERENCE ARCHITECTURAL DEMOLITION PLANS FOR FULL EXTENT OF DEMOLITION WORK REQUIRED.

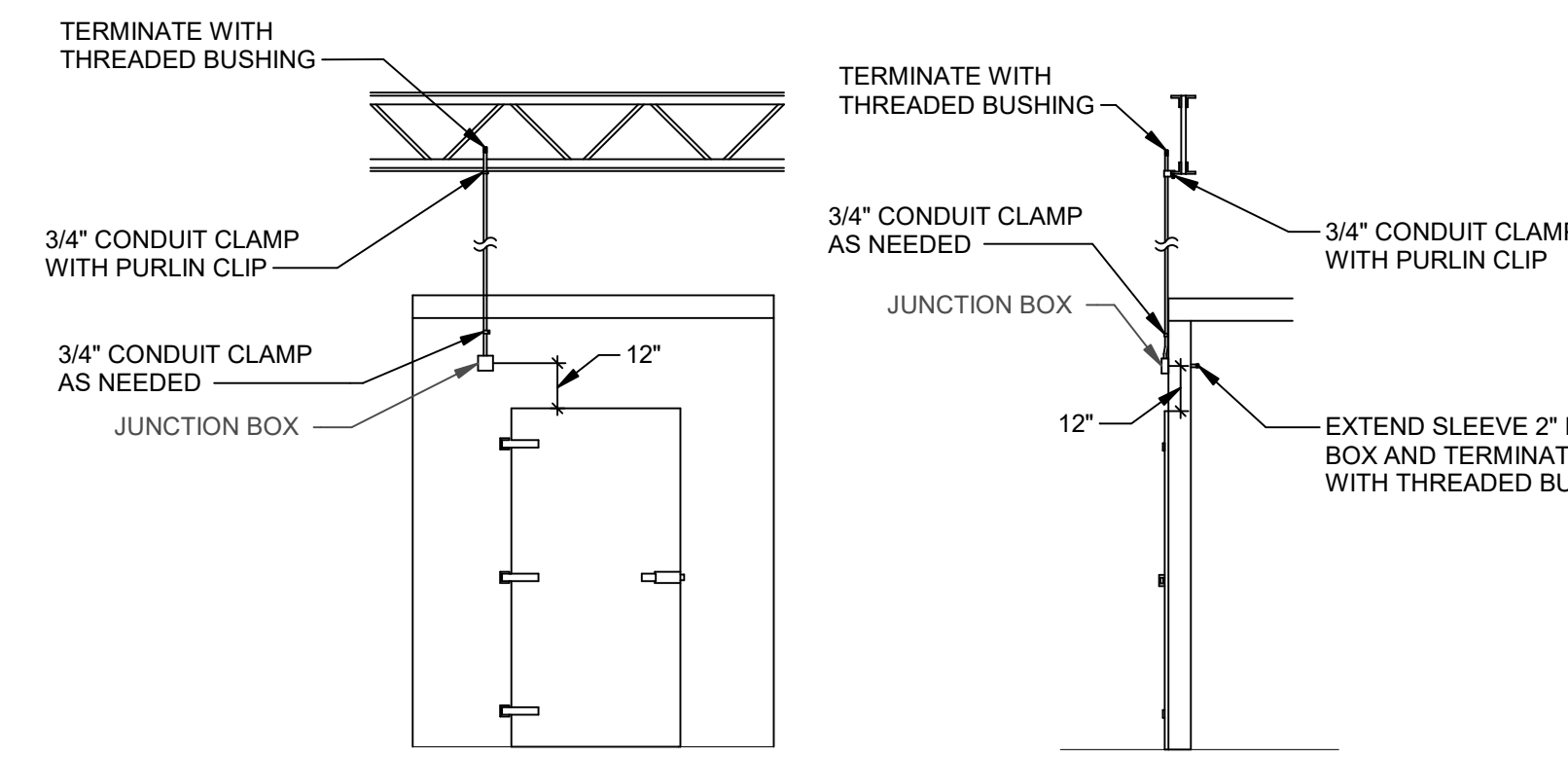
**VOICE/DATA ROUGH-IN SCHEDULE**

- ROUGH-IN NOTES:**
- FLUSH MOUNT JUNCTION BOX AT +20" (UNO) WITH (1) 3/4" CONDUIT STUBBED 12" ABOVE LAY-IN CEILING.
  - FLUSH MOUNT JUNCTION BOX AT +20" (UNO) WITH (1) 3/4" CONDUIT ROUTED TO NEAREST ACCESSIBLE CEILING SPACE.
  - SURFACE MOUNT JUNCTION BOX AT +66" (UNO) WITH (1) 3/4" CONDUIT STUBBED TO ACCESSIBLE CEILING SPACE.

- SCHEDULE GENERAL NOTES:**
- ALL JUNCTION BOXES SHALL BE DOUBLE GANG WITH SINGLE GANG PLASTER RING UNLESS NOTED OTHERWISE ON SCHEDULE.
  - ALL JUNCTION BOXES TO BE ROUGHED IN AT SCHEDULED HEIGHT UNLESS NOTED OTHERWISE ON DRAWINGS.
  - ALL CONDUITS SHALL BE TERMINATED WITH BUSHINGS.
  - PROVIDE PULL WIRE WITH EACH EMPTY RACEWAY (JUNCTION BOX/CONDUIT) INSTALLED.
  - CONDUIT RUNS SHALL HAVE NO MORE THAN 90 DEGREES OF TRANSITION BETWEEN PULL BOXES.
  - WHERE CONDUIT(S) TRAVERSE AREAS WITH CEILINGS OPEN TO STRUCTURE, CONDUIT(S) SHALL BE CONCEALED AS WELL AS POSSIBLE FROM VIEW FROM CUSTOMER AREA.
  - FOR CONDUIT RUNS SCHEDULED WITH 1-1/2" OR LARGER CONDUIT UTILIZE LARGE RADIUS SWEEPS AT POINTS OF TRANSITION.
  - ACCESSIBLE CEILING SPACE SHALL BE CONSIDERED 12 INCHES ABOVE A LAY-IN CEILING OR ABOVE BAR JOIST ACCESSIBLE BY A SCISSOR LIFT FOR AREAS OPEN TO STRUCTURE.

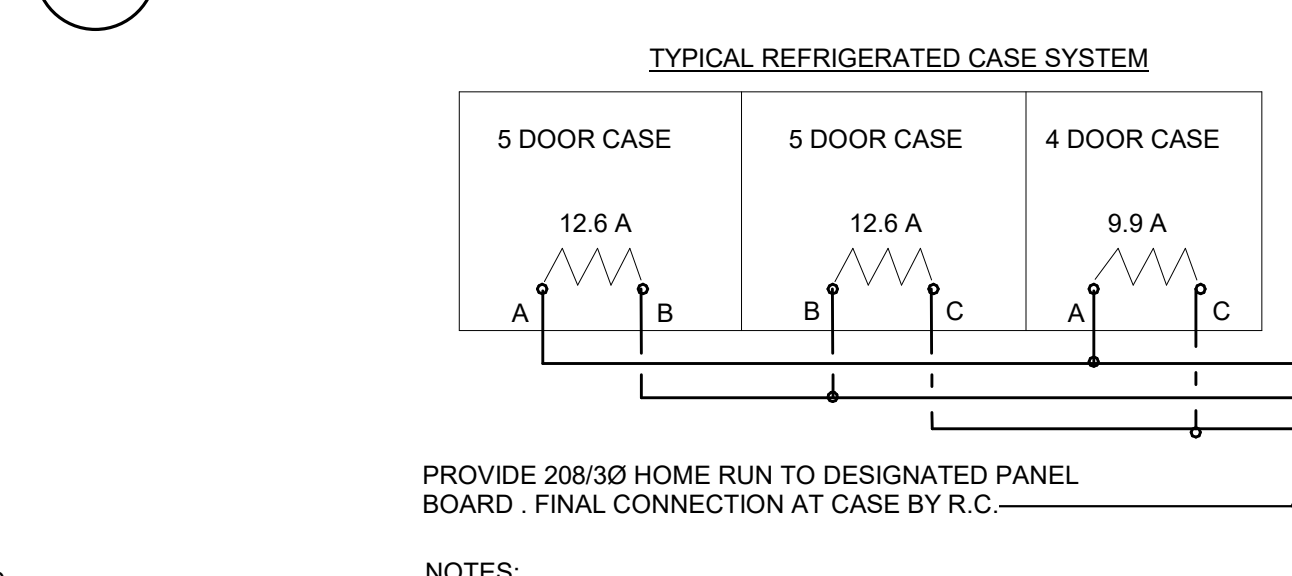


5 EDC-4  
1/8" = 1'-0"



4 AP REPEATER  
NTS

**6 EVAPORATOR COIL WIRING**



NOTES:  
ON SYSTEMS WITH UNEQUAL LOADS, REC (REFRIGERATION ELECTRICAL CONTRACTOR) SHALL ARRANGE CONNECTIONS FOR MAXIMUM BALANCE

CALCULATION OF 3Ø UNBALANCED LOAD  
A LOAD = (12.6 A + 9.9 A) x 866 = 19.5 A  
B LOAD = (12.6 A + 12.6 A) x 866 = 21.8 A (HIGH LEG)  
C LOAD = (12.6 A + 9.9 A) x 866 = 19.5 A

3 CASE DEFROST WIRING  
NTS

**GENERAL POWER NOTES**

- TELEPOWER POLE(S); MOUNT JUNCTION BOX(ES) TO TOP SIDE OF BOTTOM CHORD OF BAR JOIST. INSTALL FURNISHED POWER POLE AND TERMINATE WIRING TO JUNCTION BOX. PROVIDE UNISTRUT SUPPORTS AND HARDWARE TO SECURE TELEPOWER POLE PLUMB TO BUILDING STRUCTURE. REF POWER POLE CONNECTION DETAIL.
- PROVIDE LIQUID-TIGHT FLEXIBLE METAL CONDUIT AND WIRING FROM DISCONNECT SWITCH OR JUNCTION BOX TO EQUIPMENT KNOCKOUT OR ELECTRICAL CONNECTION POINT.
- WHERE EQUIPMENT NAMEPLATE PROTECTIVE DEVICE RATING DIFFERS FROM SIZE PROVIDED, NOTIFY WALMART CONSTRUCTION MANAGER IMMEDIATELY TO COORDINATE RESOLUTION.
- ELECTRONIC FIRE PROTECTION/SECURITY ALARM BOXES AND CONDUITS SHOWN ON POWER PLANS SHALL BE PROVIDED UNDER THIS CONTRACT. IN ADDITION, UNLESS NOTED OTHERWISE, THE FOLLOWING GENERAL NOTES APPLY:  
A. ALL ALARM JUNCTION BOXES SHALL BE 4" X 4" X 1/8" MINIMUM.  
B. ALARM RACEWAYS SHALL BE 3/4" MINIMUM WITH PULL WIRE AND INSULATING BUSHINGS AT END OF VERTICAL RACEWAY RUN.  
C. VERTICAL RACEWAYS FROM ALARM BOXES SHALL BE EITHER CONCEALED INSIDE WALL OR SURFACE MOUNTED (TO MATCH JUNCTION BOX MOUNTING). ALL VERTICAL RUNS SHALL BE TURNED 90 DEGREES AT TOP SIDE OF BOTTOM CHORD OF BAR JOIST AND EXTENDED HORIZONTALLY TO A LOCATION ACCESSIBLE BY VERTICAL FLOOR TYPE LIFT.
- UPON COMPLETION OF ELECTRICAL INSTALLATION AND PRIOR TO ENERGIZING CIRCUIT:  
A. INSPECT WIRE AND CABLE FOR PHYSICAL DAMAGE.  
B. PERFORM CONTINUITY TEST.  
C. VERIFY PROPER PHASING CONNECTION TO ALL THREE PHASE MOTOR LOADS.

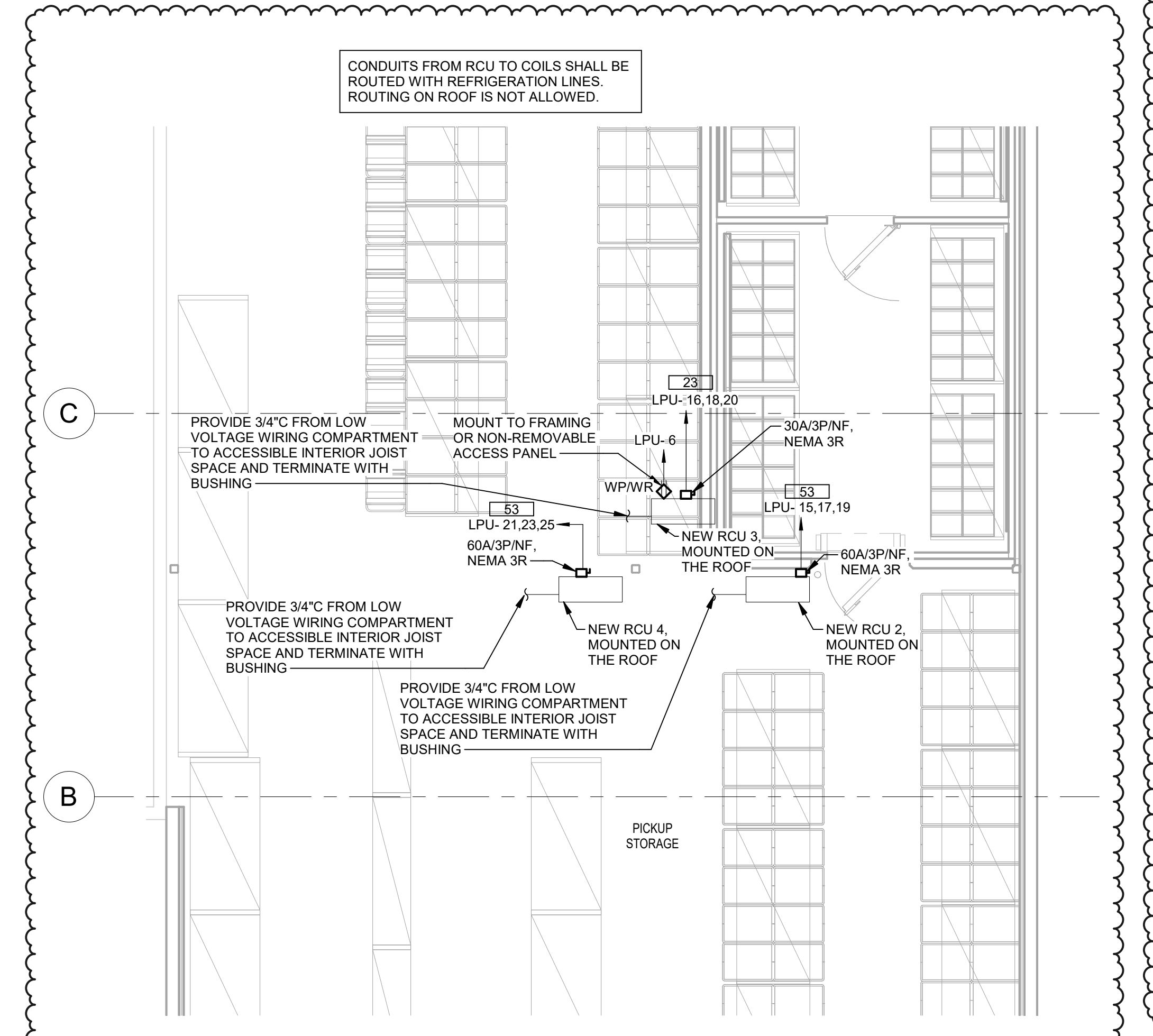
**KEYNOTES**

- CONNECT CIRCUIT(S) TO EXISTING BRANCH CIRCUITRY. MINIMUM WIRE SIZE AND PANELBOARD CIRCUIT ARE NOTED. VERIFY SIZE, RATING AND CONDITION OF EXISTING BRANCH CIRCUIT AND WIRE PRIOR TO USE TO ENSURE THAT THEY MEET REQUIRED SIZE AND ALL U.L. RATINGS AND REPLACE AS REQUIRED.
- AUTOMATIC DOOR OPERATOR. VERIFY LOCATION WITH MANUFACTURER'S RECOMMENDATIONS PRIOR TO INSTALLATION. ALL DOOR CONTROLS INCLUDING LOW VOLTAGE ROUGH-IN CONDUIT, BACKBOXES AND WIRING BY OTHERS.
- ROOF TOP UNIT IS PROVIDED WITH A HACR RATED CIRCUIT BREAKER AND GFI DUPLEX RECEPTACLE. ALL CIRCUITRY SHALL BE ROUTED IN CONDUIT WITHIN UNIT TO THE TERMINATION POINT.
- CONDUIT SHALL BE PROVIDED UNDER THIS CONTRACT. IN ADDITION, UNLESS NOTED OTHERWISE, THE FOLLOWING GENERAL NOTES APPLY:  
A. ALL ALARM JUNCTION BOXES SHALL BE 4" X 4" X 1/8" MINIMUM.  
B. ALARM RACEWAYS SHALL BE 3/4" MINIMUM WITH PULL WIRE AND INSULATING BUSHINGS AT END OF VERTICAL RACEWAY RUN.  
C. VERTICAL RACEWAYS FROM ALARM BOXES SHALL BE EITHER CONCEALED INSIDE WALL OR SURFACE MOUNTED (TO MATCH JUNCTION BOX MOUNTING). ALL VERTICAL RUNS SHALL BE TURNED 90 DEGREES AT TOP SIDE OF BOTTOM CHORD OF BAR JOIST AND EXTENDED HORIZONTALLY TO A LOCATION ACCESSIBLE BY VERTICAL FLOOR TYPE LIFT.
- FURNISH AND INSTALL NEW CIRCUIT BREAKER (#X#P) IN EXISTING PANELBOARD INDICATED. E.C. SHALL MATCH MANUFACTURER, TYPE AND AIC RATINGS OF EXISTING CIRCUIT BREAKERS.  
E.C. SHALL COORDINATE WITH GENERAL CONTRACTOR AND ARCHITECTURAL DEMOLITION PLANS THE EXTENT OF ELECTRICAL DEMOLITION REMOVE UNUSED DEVICES, BOXES, CONDUITS, AND WIRING BACK TO ORIGINATING JUNCTION BOXES OR PANELBOARDS. REFER TO POWER PLANS FOR CIRCUITRY TO BE REUSED. DEMOLITION SHALL NOT AFFECT ACTIVE CIRCUITS. IF CIRCUIT IS DEMOLISHED, THE WAY TO PANELBOARD, REMOVE CIRCUIT BREAKER AND REPLACE WITH FILLER PLATE. UPDATE TYPEWRITTEN CIRCUIT DIRECTORY IDENTIFYING CIRCUITS AS "SPACE". COORDINATE EXACT REQUIREMENTS WITH EXISTING CONDITIONS PRIOR TO BID.
- INSECT CONTROL: PROVIDE BROWN DEVICE AND WAYS TO CONTROL.
- AIR DOOR AND CONTROL PANEL: PROVIDE POWER FROM DISCONNECT TO AIR DOOR CONTROL PANEL. PROVIDE AND INSTALL ALL INTERCONNECT WIRING BETWEEN THE CONTROL PANEL, AIR CURTAIN AND DOOR INTERLOCK SWITCH PER MANUFACTURER'S INSTRUCTIONS.
- INSTALL FURNISHED ALARM JUNCTION BOX AT +66" PENETRATE COOLER WALL, AND ROUTE VERTICAL RACEWAY UP EXTERIOR SIDE OF COOLER WALL TO STRUCTURE. MINIMIZE EXPOSED CONDUIT ROUTED INSIDE COOLER BOXES. COORDINATE EXACT LOCATION WITH FIRE ALARM INSTALLER PRIOR TO ROUGH-IN. SEAL CONDUIT SLEEVE AND SLEEVE PENETRATION WITH SILICONE SEALANT AFTER CABLING IS INSTALLED.
- AP REPEATER: PROVIDE 3/4" CONDUIT FROM JUNCTION BOX TO STRUCTURE. PROVIDE 1" CONDUIT FROM BACK OF BOX EXTENDED 2" INTO COOLER POSITION JUNCTION BOX SO THAT SLEEVE IS 12" ABOVE DOOR ON NON ACTIVE SIDE OF DOOR OR 12" ABOVE ROLL SEAL ON OPPOSITE SIDE OF CONTROLS. TERMINATE EACH CONDUIT END WITH THREADED BUSHINGS. SEAL CONDUIT SLEEVE AND SLEEVE PENETRATION WITH SILICONE SEALANT AFTER CABLING IS INSTALLED.
- SURFACE MOUNT WP JUNCTION BOX ON WALL 24" BELOW COOLER/FREEZER BOX CEILING FOR CONDENSATE DRAIN HEAT TRACE TAPE. PROVIDE LIQUID-TIGHT FLEXIBLE METAL CONDUIT CONNECTION TO HEAT TAPE.
- JUNCTION BOX PROVIDED WITH COOLER/FREEZER PANEL FOR CONNECTION TO LIGHTS, DOOR HEATERS AND/OR HEATED VENTS. PROVIDE WEATHERPROOF EXTENSION AND COVERPLATE FOR RECESSED JUNCTION BOXES AS REQUIRED. FINAL TERMINATIONS BY R.C.
- REFRIGERATION BUILDING AUTOMATION SYSTEM CONTROLLER AND/OR LEAK DETECTION PANEL FURNISHED AND INSTALLED BY OTHERS. PROVIDE POWER AS INDICATED INCLUDING HANDLE LOCK-ON/OFF DEVICE AT BREAKERS). FINAL TERMINATIONS AT BAS/LEAK DETECTION PANELS BY R.C.
- ROUTE COIL FAN (CF) AND/OR ELECTRIC DEFROST (ED) CIRCUITS FROM THE BAS CONTROLLER. FINAL TERMINATIONS AT ENCLOSURE BY R.C.

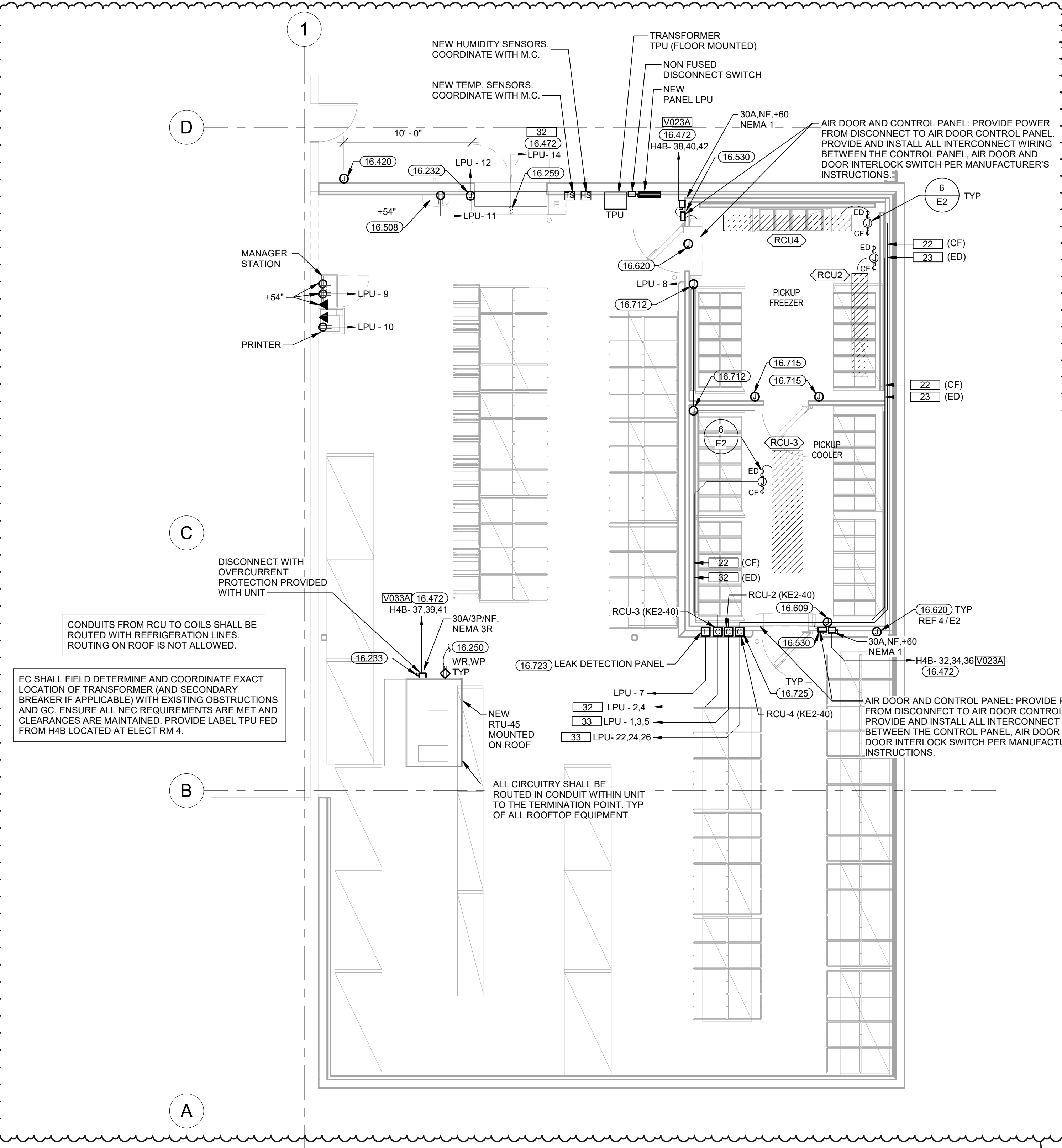
**FEEDER SCHEDULE**

ALL CONDUIT AND CONDUCTOR SIZES ARE BASED ON EMT WITH 40% FULLY RATED TERMINATIONS AND TYPE THREENTHRY-2 INSULATION. FOR NON-EMT CONDUIT OR TERMINATIONS OR INSULATION TYPES RATED LESS THAN 75%, MODIFY SIZES ACCORDING TO NEC.

XXXX	FEEDER OR GROUND SIZE	TEMPERATURE
22	(2)#12, (1)#12 G, 1/2" C	
23	(3)#12, (1)#12 G, 1/2" C	
32	(2)#10, (1)#10 G, 1/2" C	
33	(3)#10, (1)#10 G, 1/2" C	
33	(3)#8, (1)#8 G, 3/4" C	
V033A	(3)#8, (1)#8 G, 3/4" C	
V033A	(3)#8, (1)#8 G, 3/4" C	



7 ROOF RCU POWER PLAN  
3/16" = 1'-0"



2 PICKUP STORAGE POWER PLAN  
3/16" = 1'-0"



1 PICKUP STORAGE POWER DEMO PLAN  
3/32" = 1'-0"

FOR ALL MULTI BRANCH CIRCUITS WITH SHARED NEUTRAL, PROVIDE APPROVED AND LISTED HANDLE BETWEEN CIRCUIT BREAKERS FOR SIMULTANEOUS DISCONNECT.

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELVES WITH THIS KNOWLEDGE WILL RENDER THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED REGARDLESS OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

**Walmart**  
PUYALLUP, WA  
310 31ST AVENUE SE, PUYALLUP, WA 98374  
STORE NO. 2403 - 27B  
JOB NUMBER: WAL98PM02 PHOTO: 152 GROCERY EXP

**ISSUE BLOCK**

NO.	DATE	DESCRIPTION	STATUS
2	03/18/22		
4	07/07/22		

CHECKED BY: SG  
DRAWN BY: SI  
PROTO CYCLE: 07/30/21  
DOCUMENT DATE: 09/08/21

07/07/2022

DOCUMENTS THAT DO NOT HAVE THE ARCHITECT OR ENGINEER OF RECORD SEAL AND SIGNATURE SHALL BE CONSIDERED NOT FOR CONSTRUCTION

**PICKUP STORAGE POWER PLAN, NOTES AND DETAILS**

SHEET: E2





### POWER INTERRUPTION NOTE

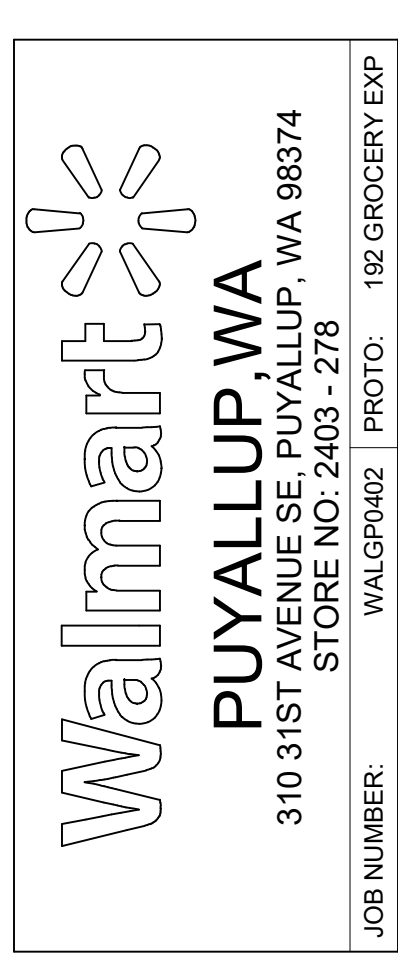
COORDINATE ALL WORK THAT REQUIRES POWER INTERRUPTIONS TO THE STORE WITH THE STORE MANAGER AND THE WALMART CONSTRUCTION MANAGER. A MINIMUM OF 48 HOURS IN ADVANCE OF ALL STORE POWER INTERRUPTIONS. IN ADDITION, IF THE MAIN ELECTRICAL SWITCHGEAR REQUIRES WORK AND DOES NOT HAVE A MAIN SERVICE DISCONNECTING MEANS, COORDINATE WITH THE UTILITY COMPANY A MINIMUM OF TWO WEEKS IN ADVANCE OF THE STORE POWER INTERRUPTION. IF STORE IS NOT OPEN 24 HOURS PER DAY, ALL STORE POWER INTERRUPTIONS ARE TO BE ACCOMPLISHED AFTER NORMAL STORE BUSINESS HOURS. PROVIDE TEMPORARY POWER AS REQUIRED PER SPECIFICATIONS. INSTALLATION OF NEW EQUIPMENT SHALL BE COMPLETED AND THE POWER SYSTEM TESTED AND RE-ENERGIZED PRIOR TO THE TIME ESTABLISHED BY THE STORE MANAGER AND THE WALMART CONSTRUCTION MANAGER.

### PANELBOARD NOTES ( )

- TERMINATE GROUND ON ISOLATED GROUND BUS.
- INSTALL LOCKING DEVICE (LOCK-OFF FOR MAINTENANCE). LOCKING DEVICE SHALL BE UL LISTED. MANUFACTURER SHALL MATCH EXISTING PANELBOARD MANUFACTURER.
- INSTALL LOCKING DEVICE (LOCK-ON FOR CRITICAL LOAD).
- GFI BREAKER FOR PERSONNEL PROTECTION (5MA).
- GFI BREAKER FOR EQUIPMENT PROTECTION (30MA).
- CONDUCTOR SIZE HAS BEEN INCREASED FOR VOLTAGE DROP. SIZE EQUIPMENT GROUNDING CONDUCTOR PROPORTIONATELY PER NEC.
- REFER TO ONE-LINE DIAGRAM FOR AVAILABLE FAULT CURRENT FOR INTERRUPT RATING.
- REFER TO ONE-LINE DIAGRAMS FOR WIRE SIZES.
- FACTORY WIRED TO LOAD.
- BREAKER SHALL BE HIGH MAGNETIC TYPE.
- BREAKER REMOVAL - FIELD VERIFY CIRCUIT BREAKER IS NOT SERVING AN EXISTING LOAD. IF NO EXISTING LOAD, REMOVE CIRCUIT BREAKER AND PROVIDE FILLER PLATE. IF BREAKER IS SERVING A LOAD, IDENTIFY LOAD SERVED. UPDATE CIRCUIT IDENTIFICATION SCHEDULE AS "SPARE" OR INDICATE LOAD SERVED.
- DUAL TAP SOLENOID OPERATED BREAKER. CONNECT EMERGENCY NIGHT LIGHTING TO UNSWITCHED TERMINATION.
- EXISTING CIRCUIT AND/OR CIRCUIT BREAKER.
- ROUTE CIRCUIT THROUGH CONTACTOR.
- PROVIDE INTERLOCK WIRING WITH EXHAUST HOOD ANSUL SYSTEM.
- RELOCATED CIRCUIT FROM EXISTING PANELBOARD.
- PROVIDE BLANK CIRCUIT BREAKER FILLER PLATE FOR EXPOSED SPACE IN PANELBOARD.
- PROVIDE UL LISTED OVERCURRENT DEVICE TO COORDINATE AND MAINTAIN MANUFACTURER'S SERIES RATED SYSTEM.
- EXISTING CIRCUIT BREAKER TO REMAIN. VERIFY CONDITION OF CIRCUIT BREAKER TO ENSURE THAT IT IS OPERATIONAL AND MEETS ALL U.L. RATINGS.
- ROUTE CIRCUIT THROUGH EXISTING LCU CABINET UTILIZING EXISTING RELAY AND CONTROLS. UPDATE LCU IDENTIFICATION SCHEDULE WITH LOAD IDENTIFICATION.
- SOLENOID OPERATED CIRCUIT BREAKER. REFER TO ENERGY MANAGEMENT PLANS FOR CIRCUIT BREAKER CONTROL.
- EXISTING LOAD - TRACE EXISTING CIRCUIT. IDENTIFY LOAD AND UPDATE CIRCUIT IDENTIFICATION SCHEDULE FOR LOAD SERVED. IF CIRCUIT IS NOT IN USE, REFER TO PANELBOARD NOTE (11).
- ROUTE CIRCUIT THROUGH ENCLOSED GFI BREAKER FOR PERSONNEL PROTECTION (5MA).
- SPARE - FIELD VERIFY CIRCUIT BREAKER IS NOT SERVING AN EXISTING LOAD. IF NO EXISTING LOAD, PROVIDE LOCK OFF DEVICE TO LOCK SPARE BREAKER IN THE OFF POSITION. IF BREAKER IS SERVING A LOAD, IDENTIFY LOAD SERVED. UPDATE CIRCUIT IDENTIFICATION SCHEDULE AS "SPARE" OR INDICATE LOAD SERVED.
- EXISTING LOAD - TRACE EXISTING CIRCUIT. IDENTIFY LOAD AND UPDATE CIRCUIT IDENTIFICATION SCHEDULE FOR LOAD SERVED. IF CIRCUIT IS NOT IN USE, REFER TO PANELBOARD NOTE (24).
- DEFROST LOAD. DEFROST LOAD IS NOT SIMULTANEOUSLY OPERATING WITH RCU LOAD SO NOT INCLUDED IN LOAD CALCULATION.
- PROVIDE SUB-FEED BREAKER PANELBOARD.

STIPULATION FOR REUSE: THIS DRAWING IS NOT BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF THE DESIGNER. ANY REUSE OF THIS DRAWING FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF THE DESIGNER SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO THE DESIGNER.

CONSULTANTS: WALMART STORE # 98374



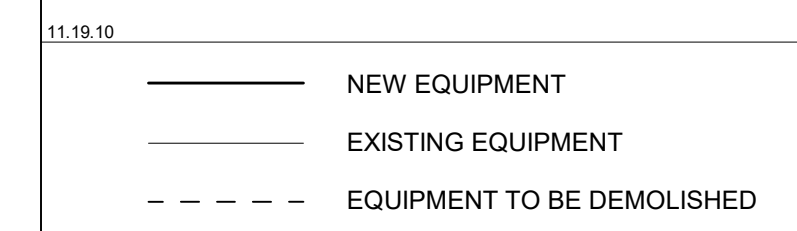
#### ISSUE BLOCK

2	PRJ2	03/18/22
4	ADD#6	07/07/22

CHECKED BY: SG  
DRAWN BY: SI  
PROTO CYCLE: 07/30/21  
DOCUMENT DATE: 09/08/21



### ONE-LINE DIAGRAM LEGEND



NOTE: ALL OF THE ELECTRICAL DEVICES SHOWN ON THE RISER DIAGRAM ARE EXISTING AND ARE BASED UPON AS-BUILT DRAWINGS. E.C. SHALL VERIFY THE EXACT EXISTING CONDITIONS, SIZES AND LOCATIONS OF EQUIPMENT PRIOR TO BEGINNING THIS RISER. THIS RISER IS SHOWN FOR INFORMATIONAL PURPOSES ONLY AND ANY NEW DEVICES ARE SHOWN IN BOLD AND ARE NOTED. DURING CONSTRUCTION, THE STORE SHALL STAY OPEN FOR BUSINESS. ANY NECESSARY POWER DOWNTIME SHALL BE SCHEDULED AND APPROVED BY WALMART CONSTRUCTION MANAGER.

### FEEIDER SCHEDULE

ALL CONDUIT AND CONDUCTOR SIZES ARE BASED ON EMT WITH 40% FILL, 75% RATED TERMINATIONS AND TYPE THHN/THWN-2 INSULATION. FOR NON-EMT CONDUIT OR TERMINATIONS OR INSULATION TYPES RATED LESS THAN 75%, MOOPLY SIZES ACCORDING TO NEC.	FEEDER OR GROUND SIZE
154	(4)#10, (1)#6 G, 1-1/2" C
G6	#6 COPPER GROUND, 3/4" C
V073A	(3)#3, (1)#6 G, 1-1/4" C

### Ex. Panel: H4B

Location: Supply From: Mounting: Surface Enclosure: NEMA 1  
Volts: 480Y/277 V Phases: 3 Wires: 4  
A.I.C. Rating: 18KA Mains Type: MLO Mains Rating: 600A MCB Rating:

CKT	Notes	Circuit Description	P	CB	AMP	A kVA	B kVA	C kVA	AMP	P	Circuit Description	Notes	CKT		
1		TRANSFORMER T4D 112.5 KVA 480/3	3	175	133.1	36.88	10.28			37.1	50	3	805 PAN WASHER 37.1 A, 480/3	13	2
3														4	4
5														6	6
7		PANEL H4P 480/277/3	3	150	62.1	17.21	9.70	36.88	10.28		35.0	45	3	3	8
9														10	10
11		BALER 10 HP, 480/3	3	30	14.0	3.88	12.19	17.21	9.70		44.0	60	3	13	14
13														14	14
15		BALER 10 HP, 480/3	3	30	14.0	3.88	12.19	17.21	9.70		44.0	60	3	13	16
17														18	18
19		COMPACTOR 10 HP, 480/3	3	30	14.0	3.88	12.19	3.88	12.19		44.0	60	3	13	22
21														24	24
23														26	26
25		BALER 10 HP, 480/3	3	30	14.0	3.88	11.90	3.88	9.60		36.4	70	3	20	30
27														32	32
29		COMPACTOR 10 HP, 480/3	3	30	14.0	3.88	3.60	3.88	3.60		13.0	20	3	20	36
31														38	38
33														40	40
35														42	42
37															
39		RTU-45	3	30	21.6	5.99	3.60	5.99	3.60		13.0	20	3	20	34
41															

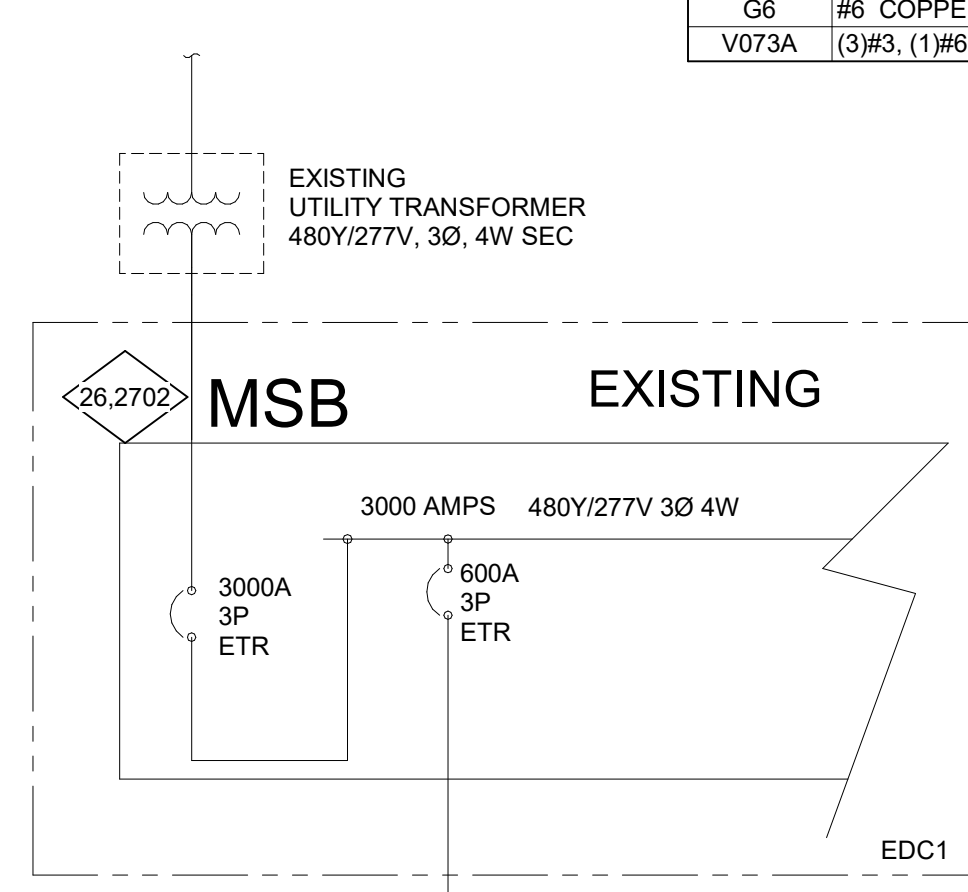
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Kitchen -	179640 VA	85.00%	151696 VA	
Lighting -	2740 VA	125.00%	3425 VA	
MISC -	227462 VA	100.00%	227462 VA	
Receptacle -	1880 VA	100.00%	1880 VA	

### Ex. Panel: L4D1

Location: Supply From: Mounting: Surface Enclosure: NEMA 1  
Volts: 208Y/120 V Phases: 3 Wires: 4  
A.I.C. Rating: 10KA Mains Type: MCB Mains Rating: 600A MCB Rating: 100A

CKT	Notes	Circuit Description	P	CB	AMP	A kVA	B kVA	C kVA	AMP	P	Circuit Description	Notes	CKT		
1		EPTV	3	20	3.0	0.36	0.50	0.36	0.00		4.2	20	2		
3		SPARE	3	20	3.0				0.00	0.00	SPARE	24	4		
5		SPARE	3	20	--						SPARE	24	6		
7		SPARE	3	20	--	0.00	0.72				GATEWAY RECEPTACLE	19	8		
9		NOI SCALE/MTI WRAPPER	3	20	11.0			1.32	0.36		3.0	20	13	10	
11		SEAFOOD W/DRAPER	3	20	12.5				1.50	0.36	3.0	20	13	12	
13		SEAFOOD RECEPTACLES	3	20	6.1	0.73	0.00				2.0	20	1	14	
15		SPARE	3	20	--				0.00	0.00	2.0	20	1	16	
17		SPARE	3	20	--						2.0	20	1	18	
19														20	20
21		COMPRESSOR HSE PANEL	3	20	4.7	0.56	1.67	0.56	1.67		13.9	20	3	13	22
23														24	24
25														26	26
27		COMPRESSOR HSE PANEL	3	20	4.7	0.56	0.00	0.56	0.00		0.56	0.00		28	28
29														30	30

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Kitchen -	3550 VA	90.00%	3195 VA	
MISC -	8870 VA	100.00%	8870 VA	
Receptacle -	2160 VA	100.00%	2160 VA	



### New Panel: LPU

Location: PICKUP STORAGE 946 Supply From: TPU Mounting: Surface Enclosure: NEMA 1  
Volts: 208Y/120 V Phases: 3 Wires: 4  
A.I.C. Rating: 10KA Mains Type: MCB Mains Rating: 150A MCB Rating:

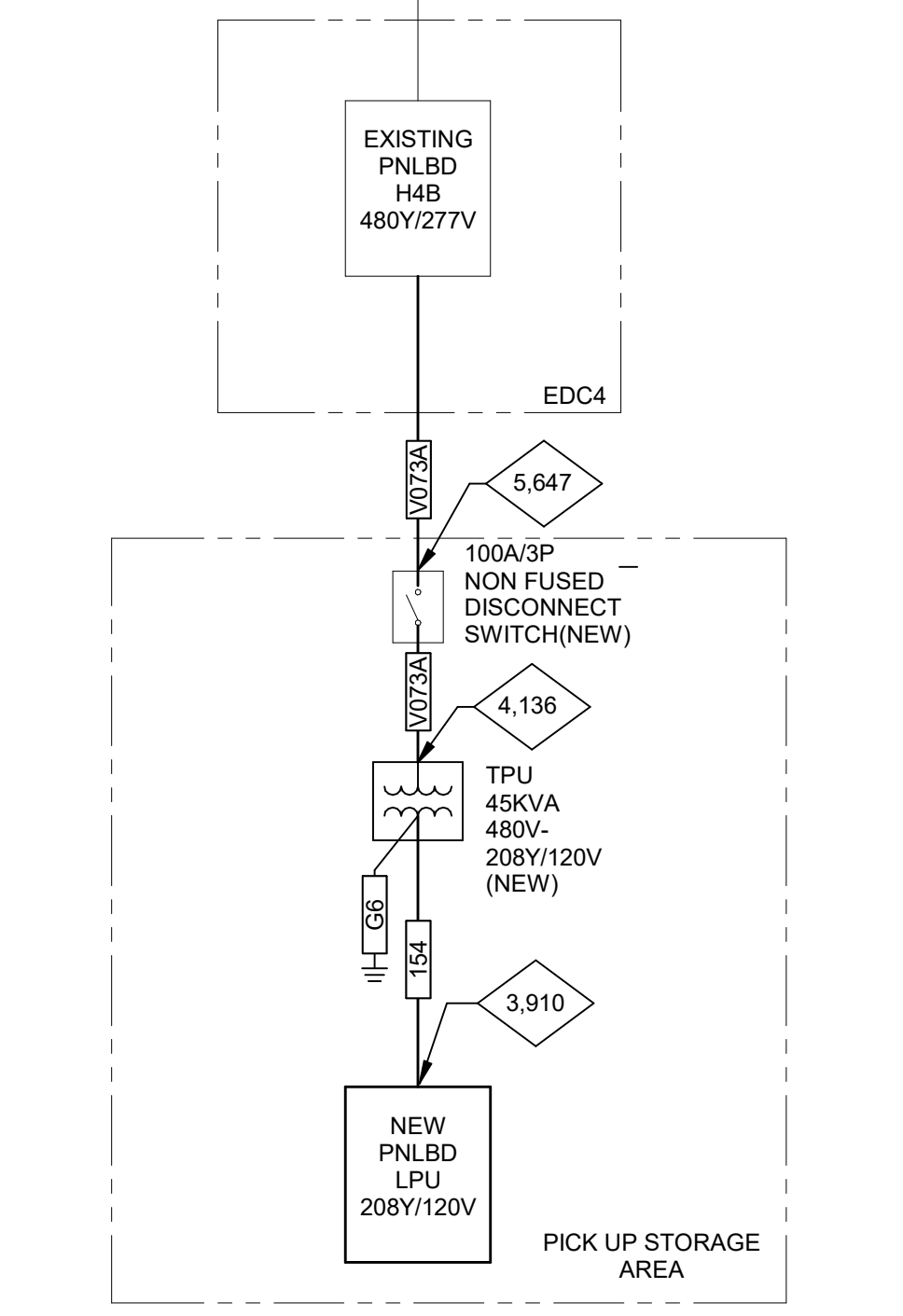
CKT	Notes	Circuit Description	P	CB	AMP	A kVA	B kVA	C kVA	AMP	P	Circuit Description	Notes	CKT		
1		COOLER DEFROST, FAN CONTROLLER (RCU3)	3	30	3.6	0.43	0.31	0.43	0.31		3.0	30	2		
3		RCU MAINTENANCE RECEPTACLE	3	30	3.6			0.43	0.18		3.0	30	4		
5		RCU DEFROST, DEFROST & MEAT TRICE	3	30	3.6	0.36	0.72				2.0	30	6		
7		PRINTERS	3	30	6.0						6.7	20	8		
9		MANAGERS STATION	3	30	6.0						6.7	20	10		
11		INSECT CONTROL	3	30	1.5						5.0	20	12		
13		PICKUP STORAGE LIGHTING	3	30	6.0	0.82	1.92				2.77	1.37	14	14	
15														16	16
17		RCU3	3	45	23.0	2.77	1.37	2.77	1.37		11.4	20	3	18	
19														20	20
21														22	22
23		FREEZER DEFROST, FAN CONTROLLER (RCU4)	3	45	23.0	2.77	0.43	2.77	0.43		3.6	30	3	24	
25		SPACE	3	45	23.0	2.77	0.43							26	26
27		SPACE				0.00	0.00	0.00	0.00					28	28
29		SPACE				0.00	0.00	0.00	0.00					30	30
31		SPACE				0.00	0.00	0.00	0.00					32	32
33		SPACE				0.00	0.00	0.00	0.00					34	34
35		SPACE				0.00	0.00	0.00	0.00					36	36
37		SPACE				0.00	0.00	0.00	0.00					38	38
39		SPACE				0.00	0.00	0.00	0.00					40	40
41		SPACE				0.00	0.00	0.00	0.00					42	42

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting -	2740 VA	125.00%	3425 VA	
MISC -	25619 VA	100.00%	25619 VA	
Receptacle -	1880 VA	100.00%	1880 VA	

### MSB LOAD SUMMARY

LOAD TYPE	CONNECTED LOAD
ADDED LIGHTING:	0.82KVA
ADDED HVAC:	20.73KVA
ADDED MISC LOADS:	59.30KVA
ADDED RECEPTACLE LOADS:	3.20KVA
ADDED KITCHEN LOADS:	0.00KVA
ADDED MOTOR LOADS:	0.00KVA
ADDED TOTAL:	84.05KVA
REMOVED TOTAL LOADS:	10.81KVA
TOTAL LOAD:	73.24KVA
EXISTING PEAK DEMAND LOAD:	976.25KVA
781 KVA (@125%)	
TOTALS:	1049.49KVA
(KVA*1000)/((480V)(√3))	1262.38AMPS
EXISTING SERVICE SIZE	3000AMPS

COORDINATE ALL CHANGES TO EXISTING ELECTRICAL SERVICE AND METERING WITH UTILITY COMPANY.  
STORE ADDRESS: WALMART #2403 GENERAL REMODEL 310 31ST AVE SE PUYALLUP, WA 98374  
UTILITY COMPANY: PUGET SOUND ENERGY CONTACT: TISHA HELMER (425) 462-3588



### PARTIAL ONE-LINE DIAGRAM

FAULT LABEL	FAULT LOCATION	A.F.C. (VA)	FEEDER SIZE	WIRE SIZE (KVA)	G VALUE (OR %) (FT)	CONDUCTOR LENGTH (FT)	VOLTAGE L-L (V)	NUMBER OF PHASES	NUMBER OF SETS	CALCULATED FAULT VALUE (A)	CONDUIT & CONDUCTOR	CONN. LOAD (AMPS)	VOLTAGE DROP (%)	VOLTAGE DROP TOTAL
1	MSB	26702	750	2	24137	40	480	3	7	29166	COPPER	1284	0.09%	0.09%
2	H4B	26106	350	3	19704	690	480	3	2	9854	COPPER	422	2.77%	2.86%
4	SWITCH	9854	3	4774	100	480	3	1	1	5647	COPPER	70	0.65%	3.51%
5	TPU	5647	3	4774	15	480	3	1	1	4196	COPPER	70	0.10%	3.60%
6	RCU	4196	3	4572	15	200	3	1	1	3736	COPPER	70	0.10%	3.49%
7	RCU-2	3910	8	1557	55	200	3	1	1	1818	COPPER	23	0.60%	4.56%
8	RCU-3	3910	12	617	35	200	3	1	1	1373	COPPER	11	0.62%	4.37%
9	RCU-4	3910	8	1557	55	200	3	1	1	1818	COPPER	23	0.60%	4.56%
10	HCR DEFROST	3952	8	1567	110	480	3	1	1	2117	COPPER	11	0.41%	3.77%
11	HCR DEFROST	3952	8	1567	145	480	3	1	1	2298	COPPER	11	0.52%	3.96%
12	KE2-40	3910	10	981	52	200	3	1	1	1308	COPPER	3	0.17%	3.93%
13	KE2-40	3910	10	981	55	200	3	1	1	1359	COPPER	3	0.18%	3.97%
14	RTU-45	3952	8	1567	140	480	3	1	1	2236	COPPER	22	0.65%	3.71%

\*\* VOLTAGE DROP (%) - POINT TO POINT CALCULATION  
\*\*\* VOLTAGE DROP TOTAL - TOTAL VOLTAGE DROP BACK TO SERVICE

### 20A WIRE SIZING SCHEDULE

ALL WIRE SIZES SHOWN ON PANEL SCHEDULES ARE INTENDED TO BE MINIMUM ACCEPTABLE SIZE.

THE FOLLOWING SCHEDULE IS TO BE USED TO SIZE WIRE FOR 20 AMP CIRCUITS (120 AND 277 VOLT) LENGTHS (IN FEET) ARE INTENDED TO BE MAXIMUM.

120 VOLT	#12	#10
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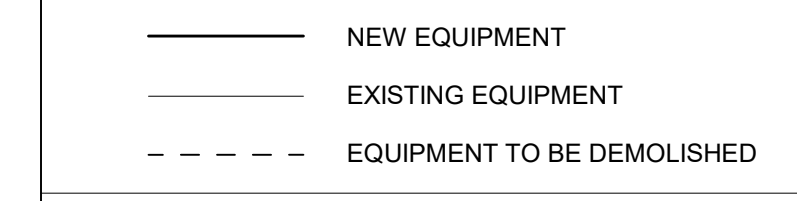
### POWER INTERRUPTION NOTE

COORDINATE ALL WORK THAT REQUIRES POWER INTERRUPTIONS TO THE STORE WITH THE STORE MANAGER AND THE WALMART CONSTRUCTION MANAGER. A MINIMUM OF 48 HOURS IN ADVANCE OF ALL STORE POWER INTERRUPTIONS. IN ADDITION, IF THE MAIN ELECTRICAL SWITCHGEAR REQUIRES WORK AND DOES NOT HAVE A MAIN SERVICE DISCONNECTING MEANS, COORDINATE WITH THE UTILITY COMPANY A MINIMUM OF TWO WEEKS IN ADVANCE OF THE STORE POWER INTERRUPTION. IF STORE IS NOT OPEN 24 HOURS PER DAY, ALL STORE POWER INTERRUPTIONS ARE TO BE ACCOMPLISHED AFTER NORMAL STORE BUSINESS HOURS. PROVIDE TEMPORARY POWER AS REQUIRED PER SPECIFICATIONS. INSTALLATION OF NEW EQUIPMENT SHALL BE COMPLETED AND THE POWER SYSTEM TESTED AND RE-ENERGIZED PRIOR TO THE TIME ESTABLISHED BY THE STORE MANAGER AND THE WALMART CONSTRUCTION MANAGER.

### PANELBOARD NOTES ( )

- 1. TERMINATE GROUND ON ISOLATED GROUND BUS.
- 2. INSTALL LOCKING DEVICE (LOCK-OFF FOR MAINTENANCE). LOCKING DEVICE SHALL BE UL LISTED. MANUFACTURER SHALL MATCH EXISTING PANELBOARD MANUFACTURER.
- 3. INSTALL LOCKING DEVICE (LOCK-ON FOR CRITICAL LOAD).
- 4. GFI BREAKER FOR PERSONNEL PROTECTION (5MA).
- 5. GFI BREAKER FOR EQUIPMENT PROTECTION (30MA).
- 6. CONDUCTOR SIZE HAS BEEN INCREASED FOR VOLTAGE DROP. SIZE EQUIPMENT GROUNDING CONDUCTOR PROPORTIONATELY PER NEC.
- 7. REFER TO ONE-LINE DIAGRAM FOR AVAILABLE FAULT CURRENT FOR INTERRUPT RATING.
- 8. REFER TO ONE-LINE DIAGRAMS FOR WIRE SIZES.
- 9. FACTORY WIRE TO LOAD.
- 10. BREAKER SHALL BE HIGH MAGNETIC TYPE.
- 11. BREAKER REMOVAL - FIELD VERIFY CIRCUIT BREAKER IS NOT SERVING AN EXISTING LOAD, IF NO EXISTING LOAD, REMOVE CIRCUIT BREAKER AND PROVIDE FILLER PLATE. IF BREAKER IS SERVING A LOAD, IDENTIFY LOAD SERVED. UPDATE CIRCUIT IDENTIFICATION SCHEDULE AS "SPARE" OR INDICATE LOAD SERVED.
- 12. DUAL TAP SOLENOID OPERATED BREAKER. CONNECT EMERGENCY NIGHT LIGHTING TO UNSWITCHED TERMINATION.
- 13. EXISTING CIRCUIT AND/OR CIRCUIT BREAKER.
- 14. ROUTE CIRCUIT THROUGH CONTACTOR.
- 15. PROVIDE INTERLOCK WIRING WITH EXHAUST HOOD ANSUL SYSTEM.
- 16. RELOCATED CIRCUIT FROM EXISTING PANELBOARD.
- 17. PROVIDE BLANK CIRCUIT BREAKER FILLER PLATE FOR EXPOSED SPACE IN PANELBOARD.
- 18. PROVIDE UL LISTED OVERCURRENT DEVICE TO COORDINATE AND MAINTAIN MANUFACTURER'S SERIES RATED SYSTEM.
- 19. EXISTING CIRCUIT BREAKER TO REMAIN. VERIFY CONDITION OF CIRCUIT BREAKER TO ENSURE THAT IT IS OPERATIONAL AND MEETS ALL U.L. RATINGS.
- 20. ROUTE CIRCUIT THROUGH EXISTING LCU CABINET UTILIZING EXISTING RELAY AND CONTROLS. UPDATE LCU IDENTIFICATION SCHEDULE WITH LOAD IDENTIFICATION.
- 21. SOLENOID OPERATED CIRCUIT BREAKER. REFER TO ENERGY MANAGEMENT PLANS FOR CIRCUIT BREAKER CONTROL.
- 22. EXISTING LOAD - TRACE EXISTING CIRCUIT. IDENTIFY LOAD AND UPDATE CIRCUIT IDENTIFICATION SCHEDULE FOR LOAD SERVED. IF CIRCUIT IS NOT IN USE, REFER TO PANELBOARD NOTE (11).
- 23. ROUTE CIRCUIT THROUGH ENCLOSED GFI BREAKER FOR PERSONNEL PROTECTION (5MA).
- 24. SPARE - FIELD VERIFY CIRCUIT BREAKER IS NOT SERVING AN EXISTING LOAD. IF NO EXISTING LOAD, PROVIDE LOCK OFF DEVICE TO LOCK SPARE BREAKER IN THE OFF POSITION. IF BREAKER IS SERVING A LOAD, IDENTIFY LOAD SERVED. UPDATE CIRCUIT IDENTIFICATION SCHEDULE AS "SPARE" OR INDICATE LOAD SERVED.
- 25. EXISTING LOAD - TRACE EXISTING CIRCUIT. IDENTIFY LOAD AND UPDATE CIRCUIT IDENTIFICATION SCHEDULE FOR LOAD SERVED. IF CIRCUIT IS NOT IN USE, REFER TO PANELBOARD NOTE (24).
- 26. DEFROST LOAD. DEFROST LOAD IS NOT SIMULTANEOUSLY OPERATING WITH RCU LOAD SO NOT INCLUDED IN LOAD CALCULATION.
- 27. PROVIDE SUB-FEED BREAKER PANELBOARD.

### ONE-LINE DIAGRAM LEGEND

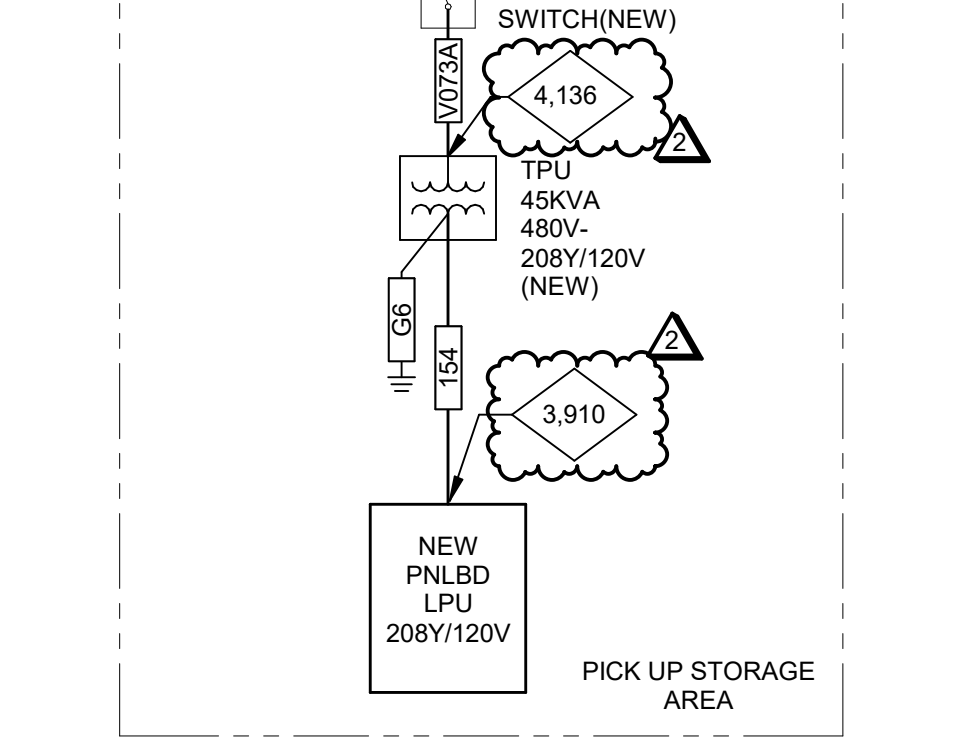
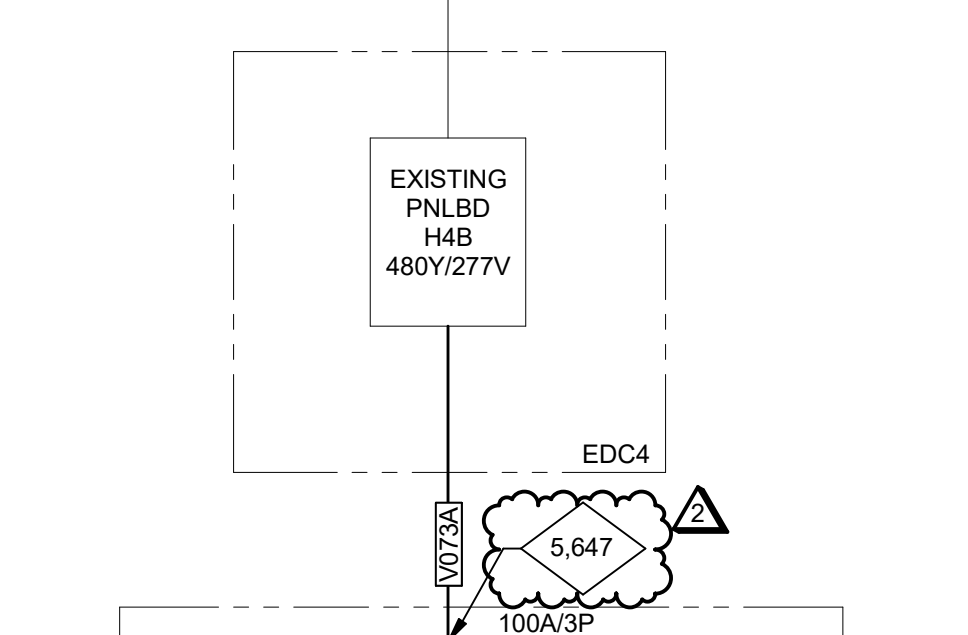
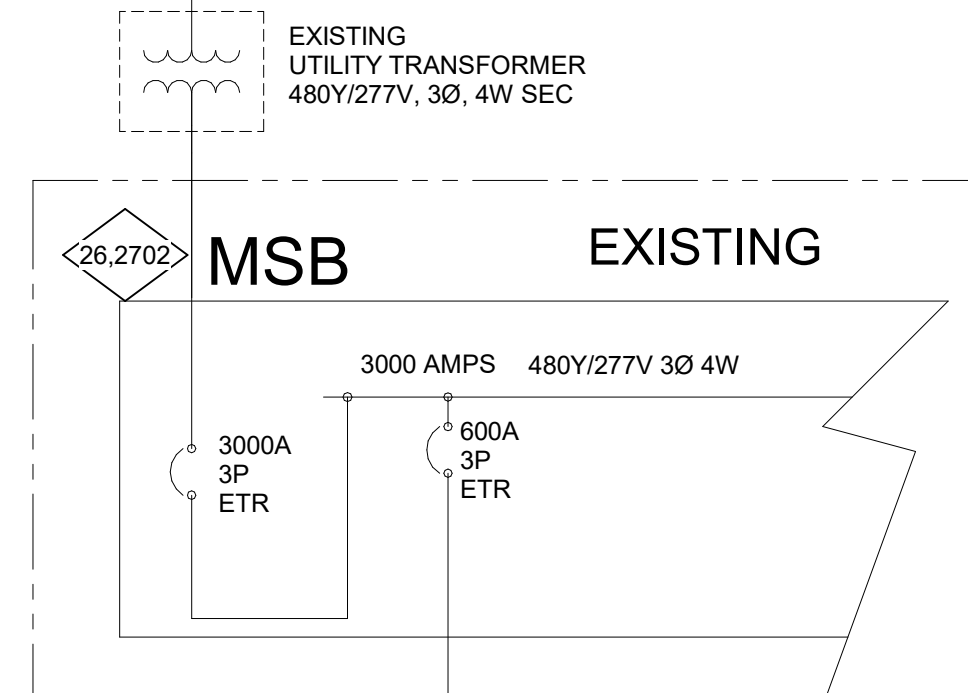


NOTE: ALL OF THE ELECTRICAL DEVICES SHOWN ON THE RISER DIAGRAM ARE EXISTING AND ARE BASED UPON AS-BUILT DRAWINGS. E.C. SHALL VERIFY THE EXACT EXISTING CONDITIONS, SIZES AND LOCATIONS OF EQUIPMENT PRIOR TO BEGINNING THIS RISER. THIS RISER IS SHOWN FOR INFORMATIONAL PURPOSES ONLY AND ANY NEW DEVICES ARE SHOWN IN BOLD AND ARE NOTED. DURING CONSTRUCTION, THE STORE SHALL STAY OPEN FOR BUSINESS. ANY NECESSARY POWER DOWNTIME SHALL BE SCHEDULED AND APPROVED BY WALMART CONSTRUCTION MANAGER.

### FEEDER SCHEDULE

ALL CONDUIT AND CONDUCTOR SIZES ARE BASED ON BMT WITH 40% FILL, 75% RATED TERMINATIONS AND TYPE THHN/TWN-2 INSULATION. FOR NON-BMT CONDUIT OR TERMINATIONS OR INSULATION TYPES RATED LESS THAN 75% JOCKEY SIZES ACCORDING TO NEC.

XXX	FEEDER OR GROUND SIZE
154	(4)#10, (1)#6 G, 1-1/2" C
G6	#6 COPPER GROUND, 3/4" C
V073A	(3)#3, (1)#6 G, 1-1/4" C



### PARTIAL ONE-LINE DIAGRAM

1 NTS

### Ex. Panel: H4B

Location: PICKUP STORAGE 946  
Supply From: TPU  
Mounting: Surface  
Enclosure: NEMA 1

Volts: 480Y/277 V  
Phases: 3  
Wires: 4

A.I.C. Rating: 18KA  
Mains Type: MLO  
Mains Rating: 600A  
MCB Rating:

CKT	Notes	Circuit Description	P	CB	AMP	A	B	C	AMP	CB	P	Circuit Description	Notes	CKT
1		TRANSFORMER T4D 112.5 KVA 480/3	3	175	133.1	36.88	10.28	36.88	10.28	37.1	50	B05 PAN WASHER 37.1 A, 480/3	13	2
3												D56 FRYER W/BSKT LIFT 35.0 A, 480/3		4
5		PANEL H4P 480/277/3	3	150	62.1	17.21	9.70	17.21	9.70	35.0	45	SHUNT-TRIP BREAKER	13	6
7												D58 FRYER 44.0 A, 480/3		8
9												SHUNT-TRIP BREAKER		10
11												D58 FRYER 44.0 A, 480/3	13	12
13		BALER 10 HP, 480/3	3	30	14.0	3.88	12.19	3.88	12.19	44.0	60	SHUNT-TRIP BREAKER		14
15												D58 FRYER 44.0 A, 480/3	13	16
17												SHUNT-TRIP BREAKER		18
19												D58 FRYER 44.0 A, 480/3	13	20
21		COMPACTOR 10 HP, 480/3	3	30	14.0	3.88	12.19	3.88	12.19	44.0	60	SHUNT-TRIP BREAKER		22
23												SHUNT-TRIP BREAKER		24
25												D58 FRYER 44.0 A, 480/3	13	26
27		BALER 10 HP, 480/3	3	30	14.0	3.88	10.38	3.88	9.64	39.3	70	TRANSFORMER TPU		28
29												SHUNT-TRIP BREAKER		30
31		COMPACTOR 10 HP, 480/3	3	30	14.0	3.88	3.60	3.88	3.60	13.0	20	HCR AIR DOOR -480V/3 PHASE	2	32
33												SHUNT-TRIP BREAKER		34
35												D58 FRYER 44.0 A, 480/3	13	36
37												SHUNT-TRIP BREAKER		38
39		RTU-45	3	30	21.6	5.99	3.60	5.99	3.60	13.0	20	HCR AIR DOOR -480V/3 PHASE	2	40
41												SHUNT-TRIP BREAKER		42

Phase A: 139.84 KVA 505.3 A  
Phase B: 137.54 KVA 496.9 A  
Phase C: 136.80 KVA 493.9 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Kitchen -	179640 VA	85.00%	116766 VA	
Lighting -	2740 VA	125.00%	3425 VA	
MISC -	230102 VA	100.00%	230102 VA	Total Conn. Load: 414.182 KVA
Receptacle -	1700 VA	100.00%	1700 VA	Total Est. Demand: 351.993 KVA
				Total Conn.: 498 A
				Total Est. Demand: 423 A

### New Panel: LPU

Location: PICKUP STORAGE 946  
Supply From: TPU  
Mounting: Surface  
Enclosure: NEMA 1

Volts: 208Y/120 V  
Phases: 3  
Wires: 4

A.I.C. Rating: 10KA  
Mains Type: MCB  
Mains Rating: 150A  
MCB Rating:

CKT	Notes	Circuit Description	P	CB	AMP	A	B	C	AMP	CB	P	Circuit Description	Notes	CKT
1												COOLER DEFROST, FAN CONTROLLER	2,26	2
3	2,26	FREEZER DEFROST, FAN CONTROLLER	3	45	7.2	0.86	0.30	0.86	0.30	2.5	30	COOLER DEFROST, FAN CONTROLLER	2,26	4
5												COOLER DOOR HEATER & HEAT TRACE	2	6
7		LEAK DETECTION PANEL	1	20	3.0	0.36	0.72	0.36	0.72	6.0	20	COOLER DOOR HEATER & HEAT TRACE	2	8
9		MANGERS STATION	1	20	6.0			0.72	0.80	6.0	20	1 PRINTER		10
11		INSECT CONTROL	1	20	1.5			0.18	0.60	5.0	20	1 AUTOMATIC DOOR		12
13		PICKUP STORAGE LIGHTING	1	20	6.8	0.82	1.92	16.0	25	16.0	25	1 AIR CURTAIN	2	14
15												3 RCU-3		16
17	2,27	RCU-2	3	100	49.6	5.96	1.74	5.96	1.74	14.5	30	3 RCU-3	2,27	18
19												SPACE		20
21		SPACE										SPACE		22
23		SPACE										SPACE		24
25		SPACE										SPACE		26
27		SPACE										SPACE		28
29		SPACE										SPACE		30
31		SPACE										SPACE		32
33		SPACE										SPACE		34
35		SPACE										SPACE		36
37		SPACE										SPACE		38
39		SPACE										SPACE		40
41		SPACE										SPACE		42

Phase A: 12.68 KVA 106.6 A  
Phase B: 10.38 KVA 87.4 A  
Phase C: 9.64 KVA 80.3 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting -	2740 VA	125.00%	3425 VA	
MISC -	28280 VA	100.00%	28280 VA	Total Conn. Load: 32 KVA
Receptacle -	1700 VA	100.00%	1700 VA	Total Est. Demand: 33.385 KVA
				Total Conn.: 91 A
				Total Est. Demand: 93 A

### Ex. Panel: L4D1

Location:  
Supply From:  
Mounting: Surface  
Enclosure: NEMA 1

Volts: 208Y/120 V  
Phases: 3  
Wires: 4

A.I.C. Rating: 10KA  
Mains Type: MCB  
Mains Rating: 100A  
MCB Rating:

CKT	Notes	Circuit Description	P	CB	AMP	A	B	C	AMP	CB	P	Circuit Description	Notes	CKT
1		LPTV	1	20	3.0	0.36	0.00	0.36	0.00	--	20	1 SPARE	24	2
3		LPTV	1	20	3.0	--	--	--	--	--	20	1 SPARE	24	4
5		SPARE	1	20	--	--	--	0.00	0.00	--	20	1 SPARE	24	6
7	24	SPARE	1	20	--	0.00	0.72	--	--	--	20	1 GATEWAY RECEPTACLE	19	8
9		M04 SCALE/M11 WRAPPER	1	20	11.0	--	--	1.32	0.36	3.0	20	1 R/O WATER FILTRATION	13	10
11		R04 SCALE/POS WRAPPER	1	20	12.5	--	--	3.0	0.36	3.0	20	1 R/O WATER FILTRATION	13	12
13		SEAFOOD RECEPTACLES	1	20	6.1	0.73	0.00	--	--	--	20	1 SPARE	24	14
15	24	SPARE	1	20	--	--	--	0.00	0.00	--	20	1 SPARE	24	16
17	24	SPARE	1	20	--	--	--	0.00	0.00	--	20	1 SPARE	24	18
19												UH-1		20
21		COMPRESSOR HSE PANEL	3	20	4.7	0.56	1.67	0.56	1.67	13.9	20	3 UH-1	13	22
23												SPACE		24
25												SPACE		26
27		COMPRESSOR HSE PANEL	3	20	4.7	0.56	0.00	0.56	0.00	--	--	SPACE		28
29												SPACE		30

Phase A: 4.60 KVA 38.3 A  
Phase B: 4.83 KVA 40.3 A  
Phase C: 4.65 KVA 38.8 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Kitchen -	3550 VA	90.00%	3195 VA	
MISC -	8370 VA	100.00%	8370 VA	Total Conn. Load: 14.08 KVA
Receptacle -	2160 VA	100.00%	2160 VA	Total Est. Demand: 13.725 KVA
				Total Conn.: 59 A
				Total Est. Demand: 39 A

### MSB LOAD SUMMARY

LOAD TYPE	CONNECTED LOAD
ADDED LIGHTING:	0.82KVA
ADDED HVAC:	41.04KVA
ADDED MISC LOADS:	57.30KVA
ADDED RECEPTACLE LOADS:	3.02KVA
ADDED KITCHEN LOADS:	0.00KVA
ADDED MOTOR LOADS:	0.00KVA
ADDED TOTAL:	102.18KVA
REMOVED TOTAL LOADS:	10.81KVA
TOTAL LOAD:	91.37KVA
EXISTING PEAK DEMAND LOAD:	976.25KVA
781 KVA(@125%)	
TOTALS:	1067.62KVA
(KVA*1000)/(480V)(V3):	1284.18AMPS
EXISTING SERVICE SIZE	3000AMPS

NOTE: EXISTING SERVICE LOAD HAS BEEN CALCULATED PER NEC 220.87

COORDINATE ALL CHANGES TO EXISTING ELECTRICAL SERVICE AND METERING WITH UTILITY COMPANY.

STORE ADDRESS: WALMART #2403 GENERAL REMODEL  
310 31ST AVE SE  
PUYALLUP, WA 98374

UTILITY COMPANY: PUGET SOUND ENERGY  
CONTACT: TISHA HELMER  
PHONE: (425) 462-3588

FAULT LABEL	FAULT LOCATION	A.F.C. (A)	FEEDER XFMR SIZE	KVA	C VALUE (OR %Z)	CONDUCTOR LENGTH (FT)	VOLTAGE L-L (V)	NUMBER OF SETS	CALCULATED FAULT VALUE (A)	CONDUIT & CONDUCTOR	CONN. LOAD (AMPS)	VOLTAGE DROP (%)	VOLTAGE DROP TOTAL	
1	MSB	26762	750		241.7	40	480	3	26108	COPPER	1284	0.09%	0.09%	
2	H4B	26108	350		19704	690	480	3	2	9854	COPPER	422	2.77%	2.86%
4	SWITCH	9854	3	45	4774	100	480	3	1	8647	COPPER	70	0.65%	3.51%
5	TPU	8647	3		4774	15	480	3	1	4136	COPPER	70	0.10%	3.60%
6	LPU	4136	110		8926	15	208	3	1	391				

DESIGN LOADS	
1. BUILDING CODE	2018 WASHINGTON STATE BUILDING CODE (2018 WASBC)
2. GRAVITY LOADS	
A. REFER TO MANUFACTURER'S RATED LOADS.	
3. LATERAL LOADS	
A. SEISMIC LOADS	
1. 5% DAMPED SPECTRAL RESPONSE COEFF (S <sub>ds</sub> )	1.009 g
2. 1-SEC PERIOD SPECTRAL RESPONSE COEFF (S <sub>d1</sub> )	0.541 g
3. SEISMIC DESIGN CATEGORY	D
4. SEISMIC SITE CLASS	D (DEFAULT)
5. NON-BUILDING STRUCTURAL SYSTEM AND SEISMIC RESISTING SYSTEM	STEEL STORAGE RACKS
6. RESPONSE MODIFICATION FACTOR (R)	4.0
7. OVERSTRENGTH FACTOR (O <sub>o</sub> )	2.0
8. IMPORTANCE FACTOR (I <sub>p</sub> )	
- STORAGE AREA EQUIVALENT LATERAL FORCE	1.0 (NO PUBLIC ACCESS)
9. ANALYSIS PROCEDURE	
10. DESIGN BASE SHEAR (PER RMI 2.6.2)	0.252W (NO PUBLIC ACCESS)
- STORAGE AREA RACKS	

**SPECIAL INSPECTIONS REQUIRED**

SPECIAL INSPECTION AS REQUIRED BY SECTION 1704 OF THE 2018 WASHINGTON STATE BUILDING CODE OR BY THE ENGINEER OF RECORD:

**PERIODIC SPECIAL INSPECTIONS:**

1. POST INSTALLED ANCHORS - MECHANICAL - USED FOR THE ANCHORAGE OF STORAGE RACK OR SALES FLOOR SHELVING FIXTURES, PER SECTION 1705.3, TABLE 1705.3(a,b) AND 1705.3, TABLE 1705.3(a,b) OF THE 2018 WASHINGTON STATE BUILDING CODE FOR EACH ANCHOR LISTED IN THE "ANCHOR BOLT DETAIL" ON SHEET FXS1.

**NOTES:**

1. SPECIAL INSPECTIONS NOTED ABOVE SHALL BE PROVIDED BY, BUT NOT LIMITED TO, THE OWNER'S CONSTRUCTION TESTING LABORATORY (CTL). REFERENCE SPECIFICATIONS FOR DETAILS.

**GENERAL NOTES**

1.0 GENERAL

1.1 ALL FIXTURES SHALL BE DESIGNED TO MEET ALL BUILDING CODE REQUIREMENTS INCLUDING SECTION 2209.1 OF THE 2018 WASBC.

1.2 JOHNSTON BURKHOLDER ASSOCIATES HAS DESIGNED THE BASE ANCHORAGE FOR THE FIXTURES SHOWN ON THIS INSTALLATION DRAWING TO RESIST DESIGN SEISMIC LATERAL FORCES FOR THE BUILDING CODES NOTED IN THE "DESIGN LOADS" TABLE ON THIS SHEET. INSTALLATION OF THE FIXTURES SHALL MEET THE LAYOUT SHOWN ON THE FIXTURE LAYOUT PLAN, PROVIDED BY OWNER.

2.0 SLAB AND FOUNDATION

2.1 SLAB ON GRADE IS ASSUMED TO HAVE A MINIMUM OF 2,500 PSI COMPRESSIVE STRENGTH.

2.2 THE SLAB ON GRADE IS ASSUMED TO BE A MINIMUM OF 4 INCHES THICK, UNREINFORCED AND PLACED OVER A MINIMUM OF 4 INCHES OF DRAINAGE FILL.

2.3 THE SLAB ON GRADE IS DESIGNED TO BEAR ON A NET SOIL BEARING CAPACITY OF 500 PSF MINIMUM.

3.0 MATERIAL FOR RACKS AND ANCHORAGE

3.1 ALL ANCHORS TO THE SLAB SHALL BE AS NOTED ON THESE PLANS.

3.2 OWNER IS TO PROVIDE MAINTENANCE PER RMI 1.4.1.

3.3 FIXTURE INSTALLER SHALL OBTAIN OUT-OF-PLUMB INSTALLATION TOLERANCE FROM FIXTURE SUPPLIER PRIOR TO INSTALLATION PER RMI, SECTION 1.4.11.1.

3.4 NO FIELD WELDING IS PERMITTED. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS, IN AN APPROVED SHOP. USE E70xx WELD RODS OR EQUAL TO TENSILE STRENGTH OF BASE METAL OF WELDMENTS. PER AWS D1.1 OR D1.3.

3.5 PROVIDE 6" AT 120" TALL RACKS AND 4 1/2" AT RACKS LESS THAN 120" (OR EQUAL TO 5% OF THE UPRIGHT FRAME HEIGHT) MINIMUM CLEARANCE BETWEEN OTHER RACK FIXTURES OR ADJACENT BUILDING ELEMENTS PER ASCE 7-16, SECTION 15.5.3.3.4.

**RACK FIXTURE SCHEDULE**

FIXTURE MARK	FIXTURE DESCRIPTION	TOP SHELF HEIGHT	FRAME MARK	MAX SHELF LOAD (LBS)
DD	STORAGE RACK	72"	FRAME : 24-72 075A	1200
O	STORAGE RACK	72"	FRAME : 44-72 075A	1200
OGP2	STORAGE RACK	90"	FRAME : 46-90 OGP	600
OGP5	STORAGE RACK	90"	FRAME : 22-90 OGP	120

**RACK FRAME & ANCHORAGE SCHEDULE**

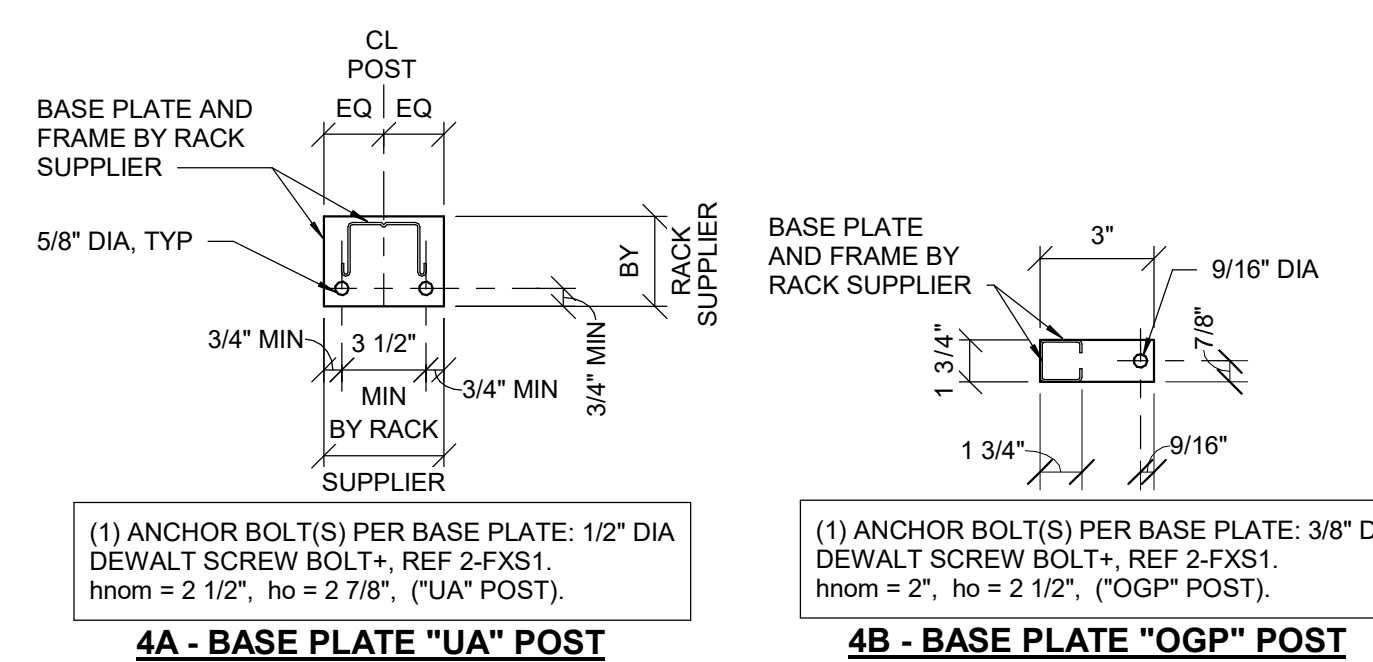
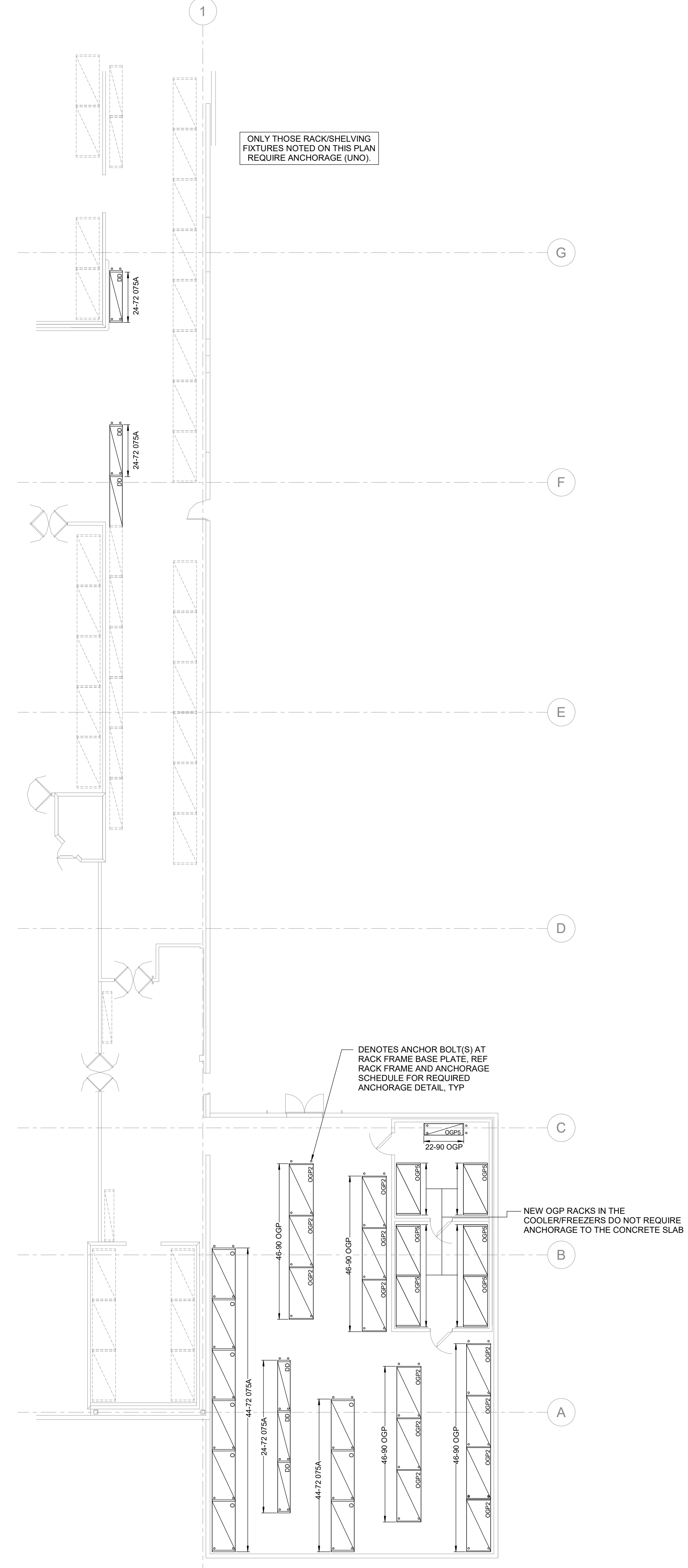
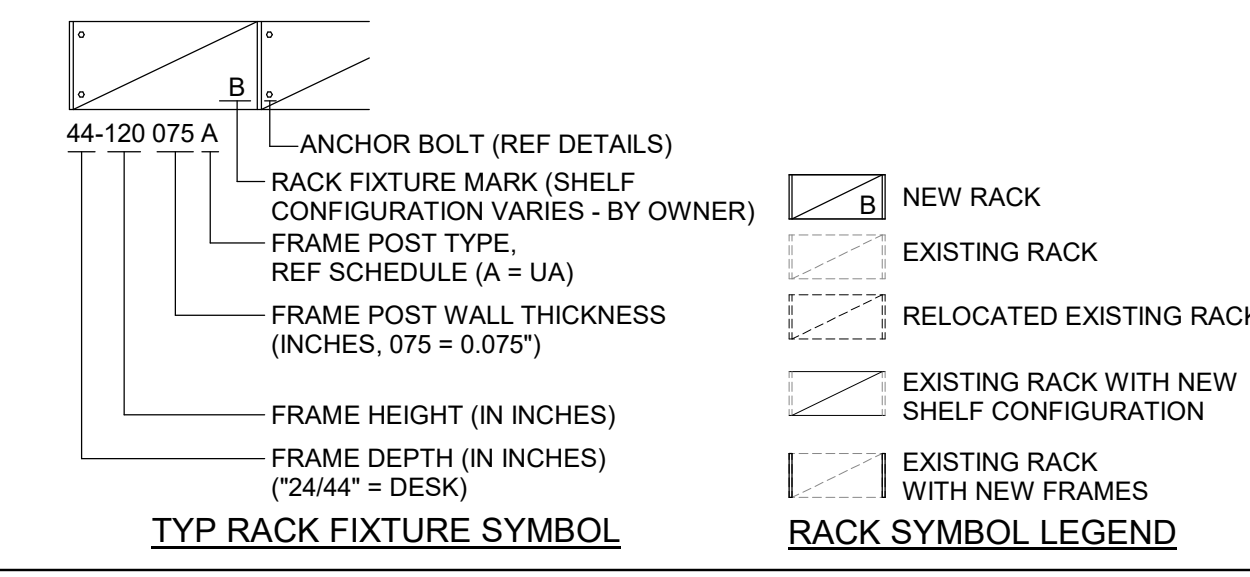
FRAME MARK	ANCHOR DETAIL	FRAME COUNT
22-90 OGP	3-FXS1 & 4B-FXS1	2
24-72 075A	3-FXS1 & 4A-FXS1	8
44-72 075A	3-FXS1 & 4A-FXS1	11
46-90 OGP	3-FXS1 & 4B-FXS1	18

**ANCHORAGE BILL OF MATERIALS**

USAGE	MATERIAL TYPE	COUNT
ANCHOR	DEWALT SCREW BOLT+ - 1/2" DIAMETER x 3" (#PFM1411380)	38
ANCHOR	DEWALT SCREW BOLT+ - 3/8" DIAMETER x 2 1/2" (#PFM1411220)	40

**NOTES:**

1. ANCHOR BOLTS AS NOTED ARE FURNISHED BY AND INSTALLED BY THE GENERAL CONTRACTOR (GC).



**4A - BASE PLATE "UA" POST**

(1) ANCHOR BOLT(S) PER BASE PLATE: 1/2" DIA DEWALT SCREW BOLT+, REF 2-FXS1. hnom = 2 1/2", ho = 2 7/8", (UA) POST.

**4B - BASE PLATE "OGP" POST**

(1) ANCHOR BOLT(S) PER BASE PLATE: 3/8" DIA DEWALT SCREW BOLT+, REF 2-FXS1. hnom = 2", ho = 2 1/2", (OGP) POST.

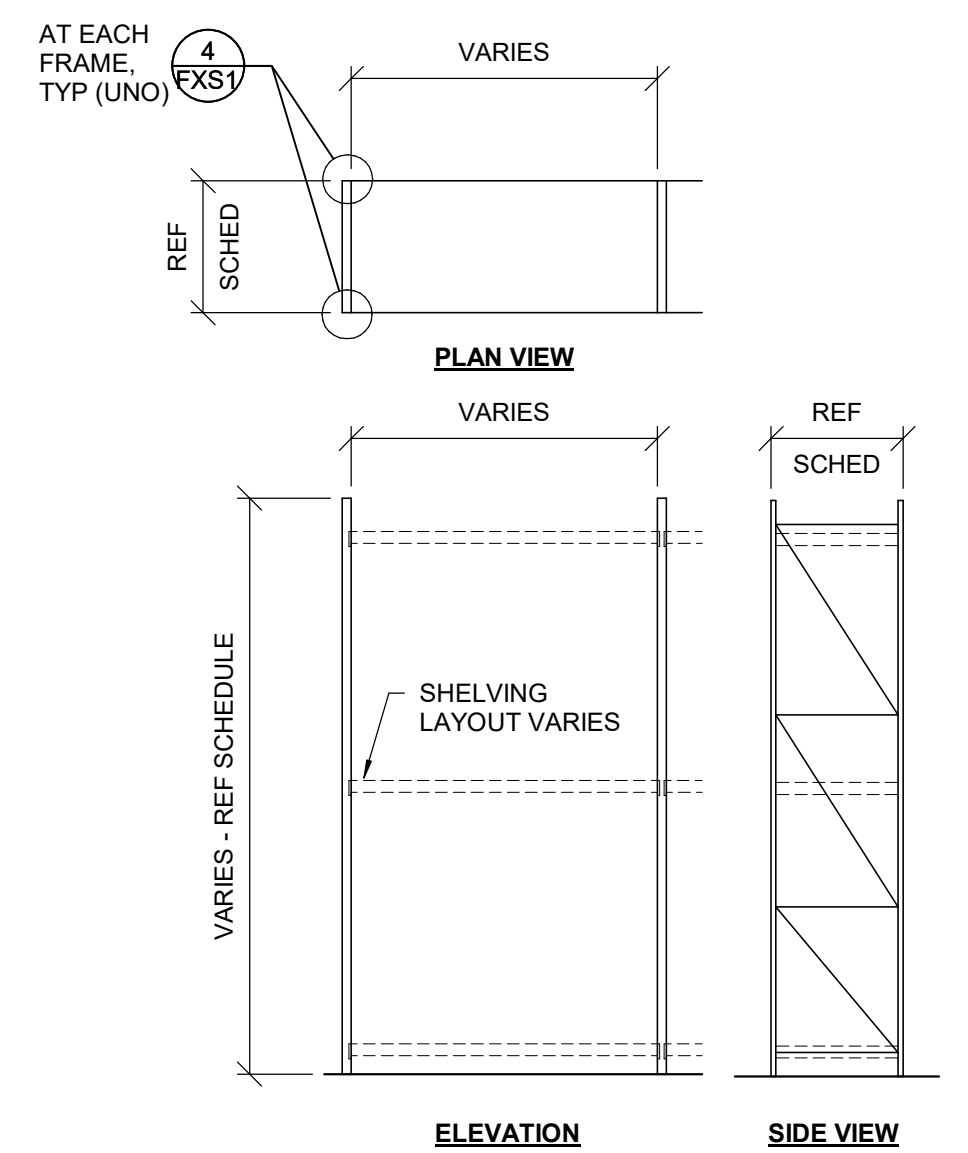
**NOTES:**

1. PROVIDE SIZE AND QUANTITY OF ANCHORS AS NOTED ABOVE AT EACH UPRIGHT FRAME POST.

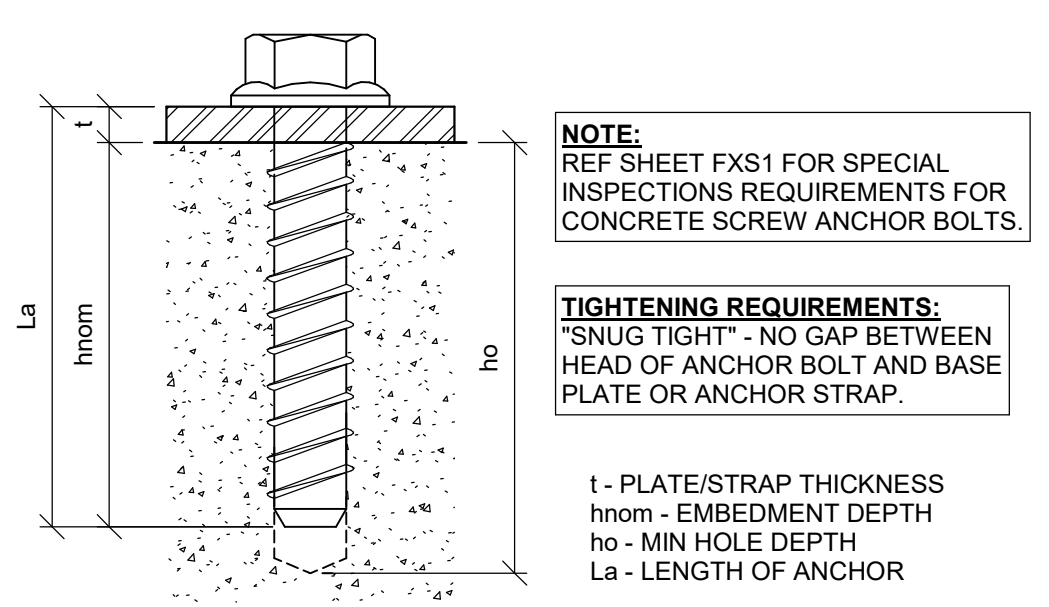
2. WHEN BASE PLATE CONTAINS GREATER NUMBER OF BOLT HOLES THAN ANCHORS SPECIFIED. ADDITIONAL HOLES IN BASE PLATE NEED NOT BE FILLED WITH ANCHOR BOLTS.

3. PROVIDE WASHERS AS REQUIRED TO ESTABLISH REQUIRED EMBEDMENT DEPTH "hnom".

④ TYPICAL ANCHOR AT RACK FRAMES  
1 1/2" = 1'-0"



③ STORAGE AREA RACK FIXTURE ELEVATIONS  
3/16" = 1'-0"



② ANCHOR BOLT DETAIL  
NTS

① FIXTURE ANCHORAGE PARTIAL PLAN  
1" = 10'-0"

**STIPULATION FOR REUSE**

THIS DRAWING IS INTENDED FOR THE SPECIFIC PROJECT AND SITE ONLY. IT IS NOT TO BE REUSED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF JOHNSTON BURKHOLDER ASSOCIATES. ANY REUSE OF THIS DRAWING FOR ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF JOHNSTON BURKHOLDER ASSOCIATES IS STRICTLY PROHIBITED AND WILL BE CONSIDERED A VIOLATION OF THE PROFESSIONAL ENGINEERING AND ARCHITECTURE ACTS AND THE ETHICS OF THE PROFESSION.

**CONSULTANTS**

**JOHNSTON BURKHOLDER ASSOCIATES**  
CONSULTING STRUCTURAL ENGINEERS  
310 31ST AVENUE SE, PUYALLUP, WA 98374  
PHONE: (253) 841-9900  
FAX: (253) 841-9901

**Walmart**  
**PUYALLUP, WA**  
310 31ST AVENUE SE, PUYALLUP, WA 98374  
STORE NO: 2403278  
JOB NUMBER: WALGPR02 | PHOTO: 192

**ISSUE BLOCK**

NO.	DESCRIPTION	DATE

CHECKED BY: BBB  
DRAWN BY: GMB  
PROTO CYCLE: 06/25/21  
DOCUMENT DATE: 09/03/21  
JBA PROJECT NO: 2135202403

**JOHNSTON BURKHOLDER ASSOCIATES**  
PROFESSIONAL ENGINEER  
9/7/21

**FIXTURE ANCHORAGE PLAN, NOTES AND DETAILS**

SHEET: **FXS1**

THE QUANTITIES (COUNT) OF ITEMS LISTED IN THIS SCHEDULE MAY NOT ACCURATELY REPRESENT THE ACTUAL QUANTITY REQUIRED TO COMPLETE THE SCOPE OF WORK INCLUDED IN THE CONTRACT DOCUMENTS. ACTUAL QUANTITY (COUNT) OF OWNER SUPPLIED ITEMS SHALL BE DETERMINED THROUGH A THOROUGH REVIEW AND ACCOUNTING OF THE CONTRACT DRAWINGS.

OWNER SUPPLIED ITEMS				
WDS #	VENDOR SAP #	Family	TYPE	MODEL
ACUTY BRANDS LIGHTING INC				
EL0016	1000041247	26_Lighting_Exit_Wall_Aculty_LQM	Type16	RED: LQM S W 1 R 120/277 EL N SD90 M6 GREEN: LQM S W 1 G 120/277 EL N SD90 M6
EL0001	1000041247	26_Lighting_Surface_Strip_Aculty_CLX	Type1	CLX L96 10000LM HEF RDL MVOLT EOHN 40K 80CRI PLR1G AETCD WH
AES INDUSTRIES INC				
MD0011	1000059359	23_HVAC_Supply_Drop_Box_2-4Way1	Drop_Box_DB5_4Way	ADB-1-10-4
ECOLAB INC				
FR2026	1000057606	FURN - Insect Control Unit D	Default	STEALTH MAXIMA
EMERSON CLIMATE TECHNOLOGIES RETAIL				
RB0006	1000214394	23_Refrigeration_EMS_Hom_Strobe_Emerson	Hom Strobe	868STR
RB0009	1000214394	23_Refrigeration_EMS_Leak_Detection_Panel_Emerson	LDP	
RB0013	1000214394	23_Refrigeration_EMS_Leak_Detection_Sensor_Emerson	MRLDS	MRLDS
RB0016	1000214394	23_Refrigeration_EMS_Leak_Detection_Zone_Alarm_Emerson	Zone Alarm	
HAINES JONES & CADBURY LLC HJC				
GR1000	1000121534	GROCERY - Edge Protection	GROCERY - Edge Protection	[209-045-06][70-WS-EncNet5][V42]
HUSSMANN CORPORATION				
RCR043	1000048206	23_Refrigerator_Condensing_Unit_Hussmann	Condensing Unit	
RE0336	1000048208	23_Refrigeration_Evaporator_Coil_Krack_GL_D_Hussmann	GL66D-268	GL66D-268
RE0378	1000048208	23_Refrigeration_Evaporator_Coil_Krack_KR_E_Hussmann	KR64E-220	KR64E-220
KPS GLOBAL LLC				
RD620.001	1000713318	DOOR - Walkin Door Swing	42x90	VARIIES
RD700.000	1000713318	DOOR - Walkin HGR	42x90	PCAV
LENNOX INDUSTRIES INC				
MR0476	1000185327	23_HVAC_RTU_Lennox_Strategos_SGH	5_TON_480V_150MBH	SGH060H4EX1G
LSI INDUSTRIES INC				
EL0050	1000077474	26_Lighting_Sealed_Strip_LSI_EG3	Type50	IWM EG3 4 LED 6L DA S UNV DIM 40 980 SL
NOVAR				
	1000211094	23_Refrigeration_EMS_ES1_LCD_XFMR_Refrigeration_Gateway_Novar	Novar ES1 w/ XFMR	ES1
	1000211094	23_Refrigeration_EMS_ES1_LCD_XFMR_Refrigeration_Gateway_Novar	Novar xcm.LCD w/ XFMR	xcm.LCD
	1000211094	23_Refrigeration_EMS_Evap_Controller_Enclosure_KE2	KE2 Evap 40A (20178/20844)	20178/20844
RB0031	1000211094	23_Refrigeration_EMS_XIO_Enclosure_Novar	1 XIO Enclosure	
ORBIS				
PU1075	TBD	PICKUP - Tote	Default	CR2416-10, 3H (NPL-678)
REXEL USA INC				
EL0027	1000046047	26_Lighting_Emergency_Battery_Rexel_EVHC	Type27	EVHC6IDP-0-WM W/ EVODW
EL0018	1000046047	26_Lighting_Emergency_Ceiling_Rexel_EVHC	Type18	EVHC6IDP-WM
STANLEY ACCESS TECHNOLOGIES LLC				
PU1142	1000152469	PICKUP - Surface Mtd_Bi-Parting Door_Solid	144"	DURA-GLIDE 2000 SERIES
STAR GUARD LLC				
EX5005	1000144099	PROTECT - Bollard	INT-4" FLOOR MOUNTED GALV 32"H-OW	UNKNOWN

SHEET NOTES

1. THE QUANTITIES (COUNT) OF ITEMS PURCHASED BY OWNER AS SCHEDULED ON THIS "OWNER SUPPLIED ITEMS" SHEET MAY NOT ACCURATELY REPRESENT THE ACTUAL QUANTITY REQUIRED TO COMPLETE THE SCOPE OF WORK INCLUDED IN THE CONTRACT DOCUMENTS. ACTUAL QUANTITY (COUNT) OF OWNER SUPPLIED ITEMS SHALL BE DETERMINED THROUGH A THOROUGH REVIEW AND ACCOUNTING OF THE CONTRACT DRAWINGS.
2. REFERENCE APPENDIX A IN THE SPECIFICATIONS TO DETERMINE WHO IS RESPONSIBLE FOR THE INSTALLATION OF OWNER FURNISHED PRODUCTS.

MATERIAL VENDOR LIST

VENDOR	VENDOR SAP #
EQUIPMENT VENDOR LIST	
VENDOR	VENDOR SAP #
ACUTY BRANDS LIGHTING INC	1000041247
AES INDUSTRIES INC	1000059359
ECOLAB INC	1000057606
EMERSON CLIMATE TECHNOLOGIES RETAIL	1000214394
HAINES JONES & CADBURY LLC HJC	1000121534
HUSSMANN CORPORATION	1000048208
KPS GLOBAL LLC	1000713318
LENNOX INDUSTRIES INC	1000185327
LSI INDUSTRIES INC	1000077474
NOVAR	1000211094
ORBIS	TBD
REXEL USA INC	1000046047
STANLEY ACCESS TECHNOLOGIES LLC	1000152469
STAR GUARD LLC	1000144099



7007 DISCOVERY BLVD  
DUBLIN, OH 43017  
614.634.7000 T

WDPARTNERS.COM

THIS INFORMATION IS INTENDED FOR THE CONSTRUCTION TEAM ONLY. IT IS NOT TO BE USED FOR ANY OTHER PURPOSES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AGENCIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AGENCIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AGENCIES.

CONSULTANTS

**Walmart**  
PUYALLUP, WA  
310 31ST AVENUE SE, PUYALLUP, WA 98374  
STORE NO. 24052278  
JOB NUMBER: WALGP0402 PHOTO: 182 GROCERY EXP

ISSUE BLOCK

ADD#	DATE
4	ADD#6 6/23/2022

CHECKED BY: SME  
DRAWN BY: MA/AK/SR  
PROTO CYCLE: 07/30/21  
DOCUMENT DATE: 09/08/21

*Christopher K. Doerschlag*  
REGISTERED ARCHITECT  
CHRISTOPHER K. DOERSCHLAG  
STATE OF WASHINGTON  
07/07/2022

DOCUMENTS THAT DO NOT HAVE THE ARCHITECT OR ENGINEER OF RECORD SEAL AND SIGNATURE SHALL BE CONSIDERED NOT FOR CONSTRUCTION

OWNER SUPPLIED ITEMS

SHEET: OS1

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACCURATELY REPRESENT THE ACTUAL QUANTITY REQUIRED TO COMPLETE THE SCOPE OF WORK SHALL BE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

# WALMART SUPERCENTER

PICKUP EXPANSION

02403-278, 310 31ST AVE SE

CITY OF PUYALLUP, COUNTY OF PIERCE, STATE OF WASHINGTON  
CONSTRUCTION DOCUMENTS

## CONTACTS

### PROPERTY OWNER

WAL-MART STORES INC.  
702 S.W. 8TH ST.  
BENTONVILLE, AR 72716  
PHONE: 1-800-925-6278

### ENGINEER

GALLOWAY & COMPANY, INC.  
6162 S. MILLOW DRIVE, SUITE 320  
GREENWOOD VILLAGE, COLORADO 80111  
TEL: (303) 770-8894  
FAX: (303) 770-3636  
ATTN: BRANDON ALLEY, PE  
EMAIL: [brandonalley@gallowaycs.com](mailto:brandonalley@gallowaycs.com)

### PREPARED BY

GALLOWAY & COMPANY, INC.  
6162 S. MILLOW DRIVE, SUITE 320  
GREENWOOD VILLAGE, COLORADO 80111  
TEL: (303) 770-8894  
FAX: (303) 770-3636  
ATTN: MAGGIE CURBER  
EMAIL: [maggiecurber@gallowaycs.com](mailto:maggiecurber@gallowaycs.com)

## AGENCY CONTACTS

### DEVELOPMENT & PLANNING SERVICES

DEVELOPMENT ENGINEERING  
333 S. MERIDIAN  
PUYALLUP, WA 98371  
CONTACT: JOSH KUBITZA, ACP  
TEL: (253) 284-0270

### BUILDING DIVISION

CITY OF PUYALLUP  
333 S. MERIDIAN  
PUYALLUP, WA 98371  
TEL: (253) 864-4165

Add Construction Sequence. See COP Standards Section 501.6 for guidance. [Civil Plans, CS0]



VICINITY MAP  
1"=200'

SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
CS0	COVER SHEET
CS1	PICKUP DEMOLITION & SITE PLAN
CS1A	HORIZONTAL CONTROL PLAN
CS2	SITE SIGNAGE PLAN
CS3	SITE DETAILS
CS4	GRADING PLAN
CS5	SEDIMENT & EROSION CONTROL INITIAL PLAN
CS6	SEDIMENT & EROSION CONTROL INTERIM & FINAL PLAN
CS7	UTILITY PLAN
L1.0	LANDSCAPE PLAN
L1.1	LANDSCAPE NOTES & DETAILS
R1.0	IRRIGATION PLAN

Remove other Limits of Disturbance Tables from the civil plans and keep this one. [Civil Plans, CS0]

LIMITS OF DISTURBANCE TABLE		
TOTAL LOD = 34,640 SF / 0.7953 ACRES		
	EXISTING	PROPOSED
PERVIOUS AREA WITHIN LOD	1747 SF / 0.0401 ACRES	8,112 SF / 0.1862 ACRES
IMPERVIOUS AREA WITHIN LOD	32879 SF / 0.7548 ACRES	26,528 SF / 0.6091 ACRES

OUT = 37.13 CU. YD.  
FILL = 226.60 CU. YD.  
NET = 189.47 CU. YD. FILL

Existing = 34,626 when totaling areas in the table.  
Proposed = 34,646. Revise to ensure totals are consistent with total given [Civil Plans, CS0]

NOTE: CONTRACTOR MUST COORDINATE WORK WITH UTILITY COMPANY AND CITY PRIOR TO BEGINNING WORK AND IS RESPONSIBLE FOR ALL MATERIALS, LABOR, REPAIRS, ETC. TO COMPLETE WORK AND RESTORE AREA TO SAME STATE PRIOR TO STARTING WORK.

CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL INFORMATION FOR FINAL ACCEPTANCE OF WORK FOR ANY LOCAL, STATE OR FEDERAL AGENCY, UTILITY, DISTRICT OR ANY OTHER AGENCY OR DISTRICT HAVING APPROVAL AUTHORITY OVER WORK. THIS INFORMATION MAY INCLUDE, BUT IS NOT LIMITED TO, AS-BUILT PLANS, CERTIFICATIONS, INSPECTIONS AND REPORTS.

CONTRACTOR RESPONSIBLE FOR AS-BUILT DRAWINGS, TESTS, REPORTS AND/OR ANY OTHER CERTIFICATIONS OR INFORMATION REQUIRED FOR ACCEPTANCE OF WORK FROM CITY, UTILITY DISTRICTS OR ANY OTHER GOVERNING AGENCY.

UNLESS OTHERWISE NOTED, CONTRACTOR TO PROTECT LANDSCAPING IN PLACE AND REPLACE TO MATCH IF DISTURBED. CONTRACTOR TO MAINTAIN AND RESTORE IRRIGATION AS NECESSARY TO MAINTAIN IRRIGATION TO EXISTING LANDSCAPING.

NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.

SURVEYOR TO OBTAIN AUTOCAD FILE FROM ENGINEER AND VERIFY ALL HORIZONTAL CONTROL DIMENSIONING PRIOR TO CONSTRUCTION STARTING. SURVEYOR MUST VERIFY ALL BENCHMARK, BASES OF BEARING AND DATUM INFORMATION TO ENSURE IMPROVEMENTS WILL BE AT THE SAME HORIZONTAL AND VERTICAL LOCATIONS SHOWN ON THE DESIGN CONSTRUCTION DRAWINGS. PRIOR TO CONSTRUCTION STARTING ANY DISCREPANCY MUST BE REPORTED TO OWNER AND ENGINEER PRIOR TO CONTINUATION OF ANY FURTHER STAKING OR CONSTRUCTION WORK.

NOTE: LENGTHS OF STORM/SANITARY SEWER ARE THE HORIZONTAL DISTANCES FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE UNLESS OTHERWISE NOTED. THEREFORE, LENGTHS SHOWN ARE APPROXIMATE AND COULD VARY DUE TO VERTICAL ALIGNMENT AND STRUCTURE WIDTHS.

## CAUTION - NOTICE TO CONTRACTOR

1. ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.

2. WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POT-HOLING OR ALTERNATE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.

## PROPERTY DESCRIPTION

LOCATED IN THE CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON, IN THE NORTHEAST CORNER OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 3, TOWNSHIP 19 NORTH, RANGE 4 EAST OF THE WILLAMETTE MERIDIAN.

Add parcel numbers to site and adjacent sites. [Civil Plans, CS0]

## VERTICAL DATUM

VERTICAL DATUM IS BASED UPON A GPS OBSERVATION USING AN OPUS SOLUTION TO DETERMINE THE ELEVATION OF THE PROJECT SITE AND IS BASED ON THE NAVD83 DATUM.

## BENCHMARK

THE PROJECT BENCHMARK IS A SET REBAR AND CAP ON THE SOUTHWEST SIDE OF THE PROJECT IN AN ISLAND. PROJECT BENCHMARK ELEVATION = 445.81'

CITY OF PUYALLUP BUILDING PERMIT NUMBER:  
B-21-0905

## CITY OF PUYALLUP GENERAL NOTES:

- ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRE-CONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE APPROVED ENGINEERING PLANS. REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF, CONTACT ENGINEERING SERVICES AT (253-841-2668) TO SCHEDULE THE MEETING. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN SET OF APPROVED PLANS AT THE MEETING.
- AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT THE CONTRACTOR SHALL OBTAIN A PUNCH LIST PREPARED BY THE CITY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND PROVISION OF SANITARIAN SERVICE.
- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE STANDARD SPECIFICATIONS), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE CITY STANDARDS).
- A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
- ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE CITY PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
- THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
- ANY STRUCTURE AND/OR OBSTRUCTION THAT REQUIRES REMOVAL OR RELOCATION RELATING TO THIS PROJECT SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
- LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE TRUE ELEVATIONS AND LOCATIONS OF HIDDEN UTILITIES. ALL VISIBLE ITEMS SHALL BE THE ENGINEER'S RESPONSIBILITY.
- THE CONTRACTOR SHALL INSTALL, REPLACE, OR RELOCATE ALL SIGNS, AS SHOWN ON THE PLANS OR AS AFFECTED BY CONSTRUCTION, PER CITY STANDARDS.
- POWERS, STREET LIGHT, CABLE, AND TELEPHONE LINES SHALL BE IN A TRENCH LOCATED WITHIN A 10-FOOT UTILITY EASEMENT ADJACENT TO PUBLIC RIGHT-OF-WAY. RIGHT-OF-WAY CROSSINGS SHALL HAVE A MINIMUM HORIZONTAL SEPARATION FROM OTHER UTILITIES (SEWER, WATER, AND STORM) OF 5 FEET.
- ALL CONSTRUCTION SURVEYS FOR EXTENSIONS OF PUBLIC FACILITIES SHALL BE DONE UNDER THE DIRECTION OF A WASHINGTON STATE LICENSED LAND SURVEYOR OR A WASHINGTON STATE LICENSED PROFESSIONAL CIVIL ENGINEER. CITY OF PUYALLUP - CITY STANDARDS SECTION 2 REVISED 06/09/2012 2-4.
- DURING CONSTRUCTION, ALL PUBLIC STREETS ADJACENT TO THIS PROJECT SHALL BE KEPT CLEAN OF ALL MATERIAL DEPOSITS RESULTING FROM ON-SITE CONSTRUCTION, AND EXISTING STRUCTURES SHALL BE PROTECTED AS DIRECTED BY THE CITY.
- CERTIFIED RECORD DRAWINGS ARE REQUIRED PRIOR TO PROJECT ACCEPTANCE.
- A NOTES STATEMENT GENERAL PERMIT MAY BE REQUIRED BY THE DEPARTMENT OF ECOLOGY FOR THIS PROJECT. FOR INFORMATION CONTACT THE DEPARTMENT OF ECOLOGY, SOUTHWEST REGION OFFICE AT (360)407-6300.
- ANY OCCURRENCE OR DAMAGE TO CRITICAL AREAS AND ASSOCIATED BUFFERS, OR SIGNIFICANT TREES DESIGNATED FOR PRESERVATION AND PROTECTION SHALL BE INITIATED IN ACCORDANCE WITH A MITIGATION PLAN REVIEWED AND APPROVED BY THE CITY'S PLANNING DIVISION. PREPARATION AND IMPLEMENTATION OF THE MITIGATION PLAN SHALL BE AT THE DEVELOPER'S EXPENSE.

Galloway  
1926 Wood Dale, Suite 107  
Puyallup, WA 98446  
TEL: (253) 864-4165  
WWW.GALLOWAYCS.COM

THIS DRAWING WAS PREPARED FOR PUYALLUP, WA PROJECT NO. 02403-278 PROJECT DATE ON 06/07/2023, AND IT IS NOT VALID FOR ANY OTHER PROJECT. THIS DRAWING IS AN UNCONTROLLED DRAWING UNLESS INDICATED OTHERWISE. ALL REVISIONS SHALL BE MADE BY THE ORIGINAL DESIGNER OR BY THE LIAISON OFFICER. THIS DRAWING SHALL BE USED ONLY AS A REFERENCE TO THE ORIGINAL PROJECT.



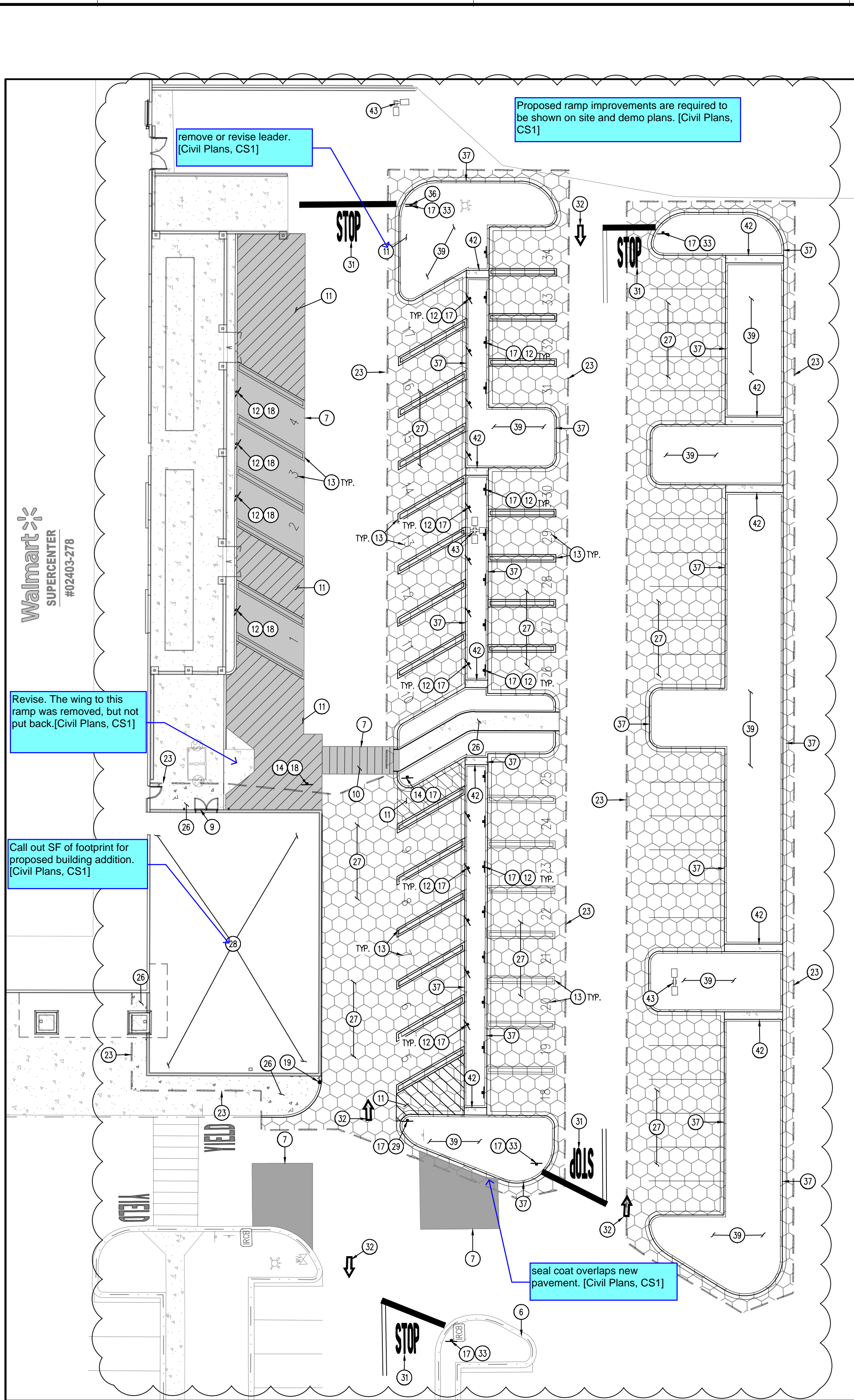
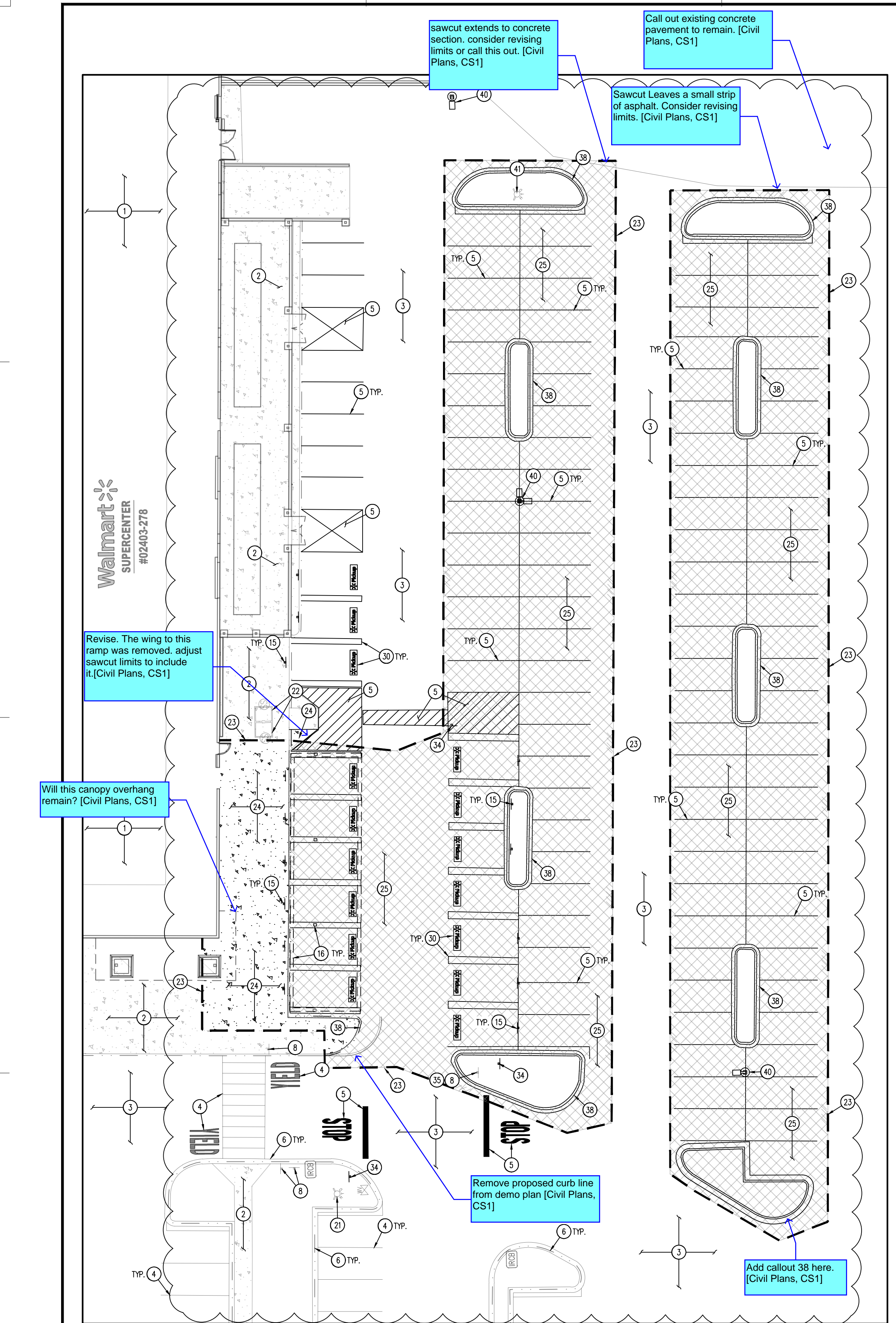
Walmart  
PUYALLUP, WA  
310 31ST AVE SE  
STORE NO: 02403-278  
JOB NUMBER: WDP0202403-278 PHOTO: PICKUP ENTINCMNT

## ISSUE BLOCK

ADD#2	05/12/22
CCD#1	09/01/22

CHECKED BY: RCJ  
DRAWN BY: JRC  
PROTO CYCLE: -  
DOCUMENT DATE: 09/08/21

COVER SHEET  
SHEET: CS0



DEMOLITION PLAN  
APPROX. 1" = 20'

SITE PLAN  
APPROX. 1" = 20'

PARKING TABLE		
PARKING COUNT BASED ON AVAILABLE AERIAL IMAGERY.		
	EXISTING	PROPOSED
BUILDING AREA (SF)	197,132	200,394
STANDARD STALLS	612	574
COMPACT STALLS	211	211
ADA STALLS	18	18
PICKUP STALLS	16	31
TOTAL PARKING STALLS	857	834
PARKING RATIO	4.34 SPACES / 1,000 SF	4.16 SPACES / 1,000 SF

The number on C1 is 200.364. Confirm which is correct. [Civil Plans, CS1]

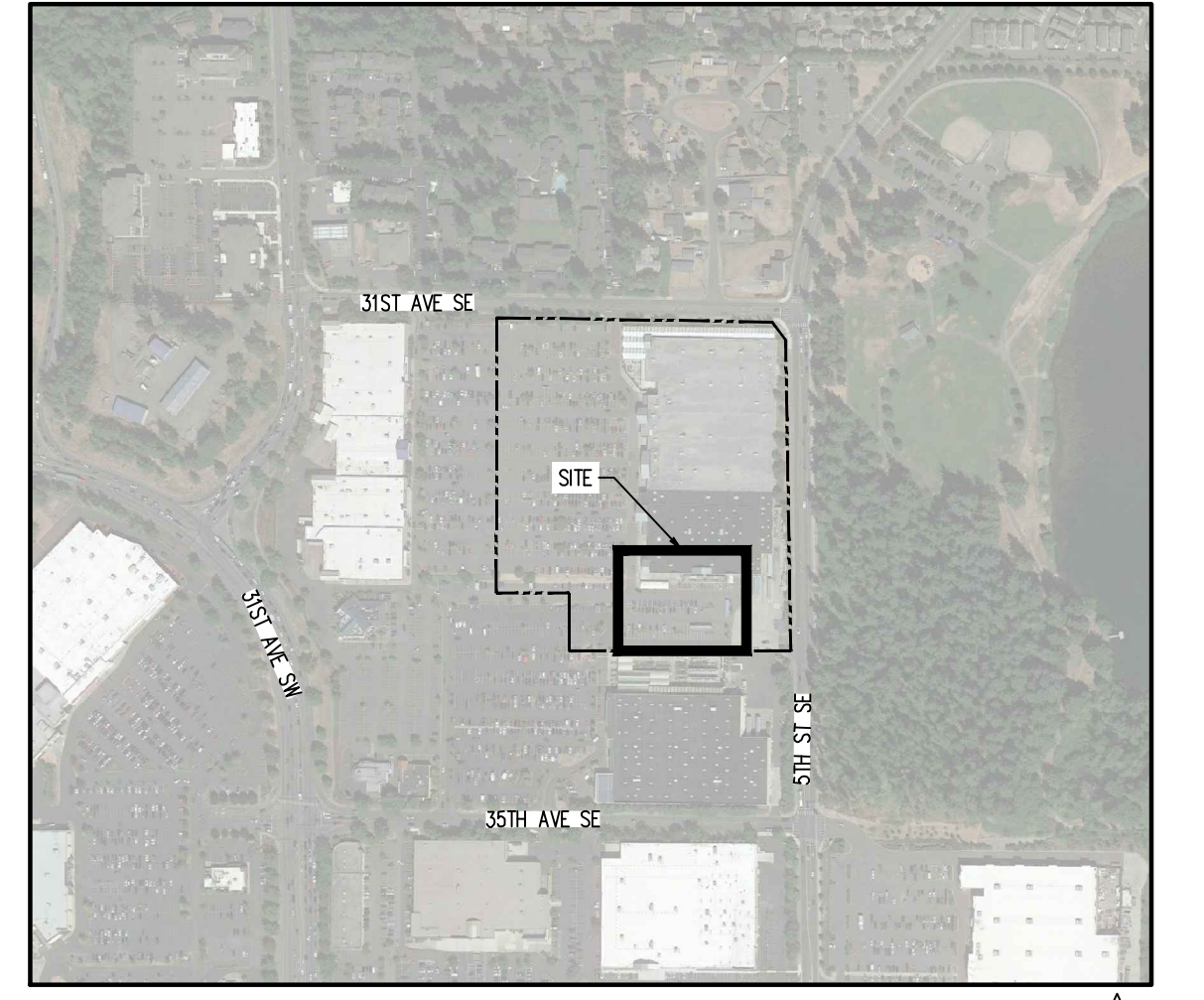
DEMOLITION NOTES

- THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL AND DISPOSAL (IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES) ALL STRUCTURES, PAIS, WALLS, FLOORS, FOUNDATIONS, PARKING, DRAINAGE STRUCTURES, UTILITIES, ETC. SUCH THAT THE IMPROVEMENTS SHOWN ON THE PROPOSED PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERGOTT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL FOR THE SPECIFICATIONS. PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED.
- THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
- THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY THEMSELVES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
- THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE OPEN FOR THE CONVIENENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR MARKING ON-SITE LOCATIONS OF EXISTING UTILITIES.
- ALL EXISTING SEWERS, PIPING AND UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY UNEXPECTED FEATURES. NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH THE WORK. UTILITIES DETERMINED TO BE ABANDONED AND LEFT IN PLACE SHALL BE GROUTED IF UNDER BUILDING.
- CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC. (AND OTHER APPROPRIATE BEST MANAGEMENT PRACTICES) AS APPROVED BY CITY AND OWNER. SHOULD REMOVE AND/OR RELOCATING ACTIVITIES DAMAGE EXISTING FACILITIES TO REMAIN. THE CONTRACTOR SHALL PROVIDE NEW MATERIALS/ STRUCTURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, EXCEPT FOR MATERIALS DESIGNED TO BE RELOCATED ON THIS PLAN. ALL OTHER CONSTRUCTION MATERIALS SHALL BE NEW DAMAGE TO ALL EXISTING CONDITIONS TO REMAIN WILL BE REPLACED AT CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL LIMIT SAW-CUT & PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THESE CONSTRUCTION PLANS. BUT IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 72 HOURS MANUAL NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION.
- ALL EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME THE DRAWINGS WERE PREPARED AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE HE COMMENCES ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGE DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY. THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED BY THE CONTRACTOR AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
- THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONTRACT DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, COPIES OF ANY REQUIRED CONSTRUCTION PERMITS, AND EROSION CONTROL PLANS AND INSPECTION REPORTS (SWPPP).
- ANY DISCREPANCIES OR OMISSIONS IN THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER/ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER. NO MODIFICATION WILL BE GIVEN TO CHANGE ORDERS FOR WHICH THE OWNER AND ENGINEER WERE NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM.
- CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST OSHA STANDARDS FOR EXCAVATION AND TRENCHING PROCEDURES. CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BRACING, ETC. AS NECESSARY FOR THESE OPERATIONS, AND SHALL COMPLY WITH ALL OSHA PERFORMANCE CRITERIA.
- DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED AND USED BY THE OWNER OR OTHERS DURING OCCUPIED HOURS EXCEPT WHEN SUCH INTERRUPTS HAVE BEEN AUTHORIZED IN WRITING BY THE OWNER AND THE LOCAL MUNICIPALITIES. INTERRUPTS SHALL ONLY OCCUR AFTER ACCEPTABLE TEMPORARY SERVICE HAS BEEN PROVIDED.
- ANY RECYCLED MATERIAL TO BE STOCKPILED ON THE SITE SHALL BE STORED IN AS SMALL AN AREA AS PRACTICAL AND THE LOCATION OF ANY STOCKPILE SHALL BE WELL CLEAR OF THE BUILDING PAD AREA AND THE LOCATION MUST BE PRE-APPROVED BY THE ENGINEER AND OWNER PRIOR TO STOCKPIPING.
- QUANTITIES SHOWN HERE ARE APPROXIMATE AND ARE PROVIDED FOR CONVIENENCE ONLY AND NOT FOR BID PURPOSES. CONTRACTOR SHALL VERIFY QUANTITIES NECESSARY TO REMAIN FACILITIES SHOWN.
- ASBESTOS OR HAZARDOUS MATERIAL, IF FOUND ON SITE, SHALL BE REMOVED BY A LICENSED HAZARDOUS MATERIAL CONTRACTOR. REFERENCE ARCHITECTURAL PLANS FOR LIMITS OF BUILDING DEMOLITION.

SITE & DEMOLITION SCHEDULE

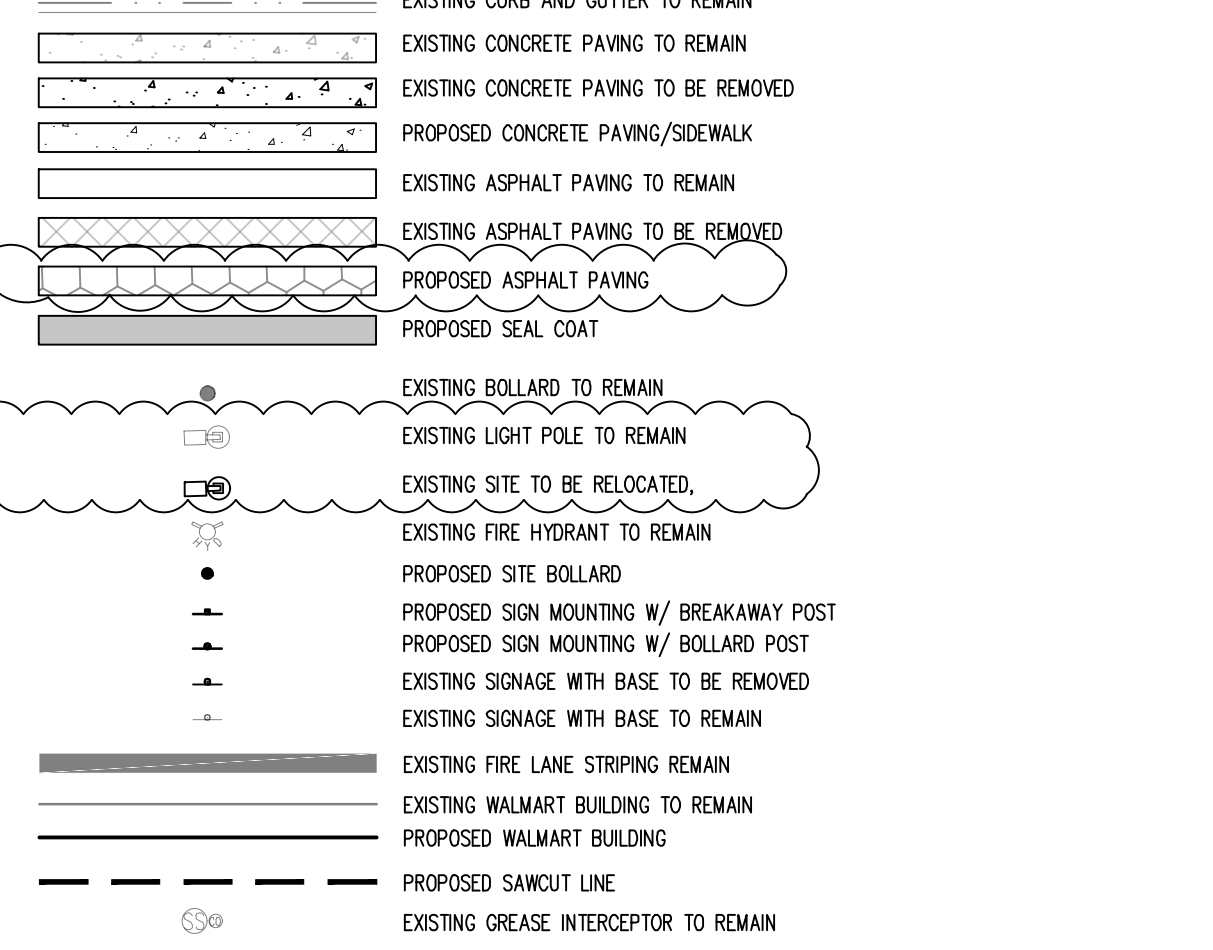
- EXISTING WALMART BUILDING TO REMAIN.
- EXISTING CONCRETE PAVEMENT/SIDEWALK TO REMAIN.
- EXISTING ASPHALT PAVEMENT TO REMAIN.
- EXISTING PARKING LOT STRIPING & PAVEMENT MARKING TO REMAIN.
- EXISTING PARKING LOT STRIPING & PAVEMENT MARKING TO BE REMOVED.
- EXISTING CURB AND GUTTER TO REMAIN.
- PROPOSED SEAL COAT OF EXISTING PAVEMENT.
- EXISTING SIGNAGE WITH BASE TO REMAIN.
- PROPOSED PICKUP DOOR (REF. ARCH. PLANS).
- PROPOSED ASSOCIATE PATH CROSSWALK STRIPING (REF. SITE DETAILS).
- PROPOSED 4" SOLID YELLOW PAINTED STRIPES AT 45° @ 2'-0" O.C.
- PROPOSED PICKUP SIGNAGE (REF. SITE DETAILS).
- PROPOSED PICKUP STALL STRIPING AND PICKUP NUMBER MARKING (REF. SITE DETAILS).
- PROPOSED R1-SB - "STOP HERE FOR PEDESTRIANS" SIGNAGE (REF. SITE DETAILS).
- EXISTING PICKUP SIGNAGE & BASE TO BE REMOVED.
- EXISTING CANOPY, COLUMNS, AND FOOTINGS TO BE REMOVED.
- PROPOSED SIGN MOUNTING & BASE WITH BREAKAWAY POST (REF. SITE DETAILS).
- PROPOSED SIGN MOUNTING AND BASE WITH BOLLARD (REF. SITE DETAILS).
- PROPOSED SITE BOLLARD (REF. SITE DETAILS).
- EXISTING LIGHT POLE AND BASE TO REMAIN.
- EXISTING FIRE HYDRANT TO REMAIN.
- EXISTING GREASE INTERCEPTOR TO REMAIN AND BE PROTECTED DURING CONSTRUCTION.
- PROPOSED SAWCUT LINE.
- EXISTING CONCRETE SIDEWALK TO BE REMOVED.
- EXISTING ASPHALT TO BE REMOVED.
- PROPOSED CONCRETE SIDEWALK (REF. SITE DETAILS).
- PROPOSED ASPHALT PAVEMENT (REF. SITE DETAILS).
- PROPOSED BUILDING EXPANSION (REF. ARCH. PLANS).
- PROPOSED "ONE WAY ONLY" SIGNAGE (REF. SITE DETAILS).
- EXISTING PICKUP STALL STRIPING & NUMBERING MARKING TO BE REMOVED.
- PROPOSED STOP BAR AND STOP TEXT (REF. SITE DETAILS).
- PROPOSED OPEN ARROW PAVEMENT MARKING (REF. SITE DETAILS).
- EXISTING 30"x30" STOP SIGN (REF. SITE DETAILS).
- EXISTING SIGNAGE WITH BASE TO BE REMOVED.
- EXISTING PICKUP DIRECTIONAL SIGNAGE TO BE REMOVED (REF. SITE SIGNAGE PLAN).
- PROPOSED DO NOT ENTER SIGN (REF. SITE DETAILS).
- PROPOSED CURB AND GUTTER.
- EXISTING CURB AND GUTTER TO BE REMOVED.
- PROPOSED LANDSCAPING (REF. LANDSCAPE PLANS L1.0 AND L1.1).
- EXISTING SITE LIGHT AND POST TO BE RELOCATED. LIGHT AND POST TO BE SALVAGED, BASE TO BE REMOVED.
- EXISTING FIRE HYDRANT TO BE PROTECTED DURING CONSTRUCTION.
- PROPOSED 2' CHASE.
- PROPOSED SITE LIGHT WITH YELLOW BASE (REF. ELECTRICAL SHEET E1.2)

Combine notes 21 and 41 [Civil Notes, CS1]



KEY MAP  
APPROX. 1" = 500'

LEGEND

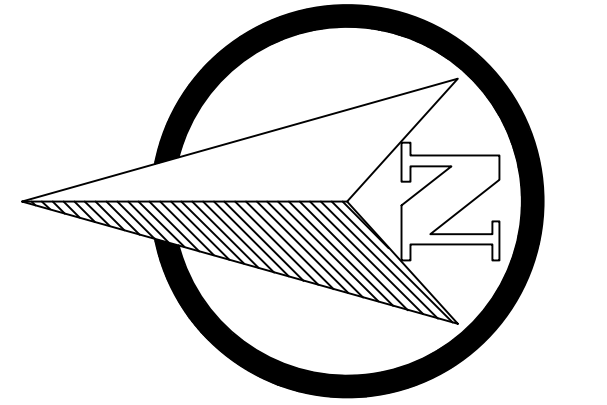


SITE NOTES

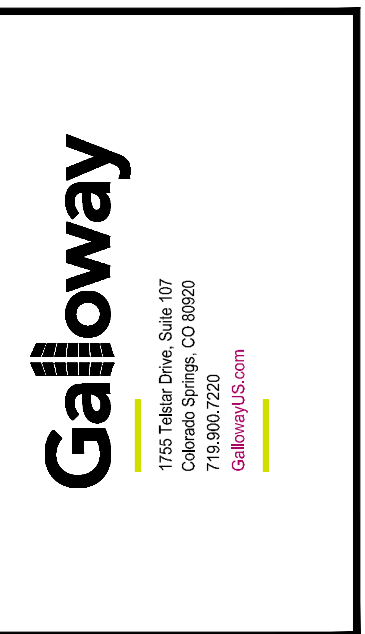
- ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY/COUNTY REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
- CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF VESTIBULES, SLOPE PAVING, SIDEWALKS, DOT POPOLES, TRUCK DOCKS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
- ALL DIMENSIONS ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
- EXISTING STRUCTURES WITH CONSTRUCTION LIMITS ARE TO BE ABANDONED, REMOVED OR RELOCATED AS NECESSARY. ALL COSTS SHALL BE INCLUDED IN BASE BID.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS (UNLESS OTHERWISE NOTED ON PLANS) INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES REQUIREMENTS AND PROJECT SITE WORK SPECIFICATIONS AND SHALL BE APPROVED BY SDCI. ALL COSTS SHALL BE INCLUDED IN BASE BID.
- THE SITE WORK FOR THIS PROJECT SHALL MEET OR EXCEED "THE SITE SPECIFIC SPECIFICATIONS".

CAUTION - NOTICE TO CONTRACTOR

- ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE FIELD LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
- WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POT-HOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.



GRAPHIC SCALE  
1 inch = 20 ft.



STIPULATION FOR REUSE  
THIS DRAWING WAS PREPARED FOR THE PROJECT OF 31ST AVENUE SE, PUYALLUP, WA. DATE OF THE DRAWING IS 09/08/2012. THIS DRAWING IS NOT TO BE REUSED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF GALLOWAY PROFESSIONAL ENGINEERS. ANY REUSE OF THIS DRAWING WITHOUT THE WRITTEN PERMISSION OF GALLOWAY PROFESSIONAL ENGINEERS WILL BE AT THE USER'S RISK.



**Walmart**  
SUPERCENTER  
#02403-278  
310 31ST AVE SE  
PUYALLUP, WA 98466  
STORE NO: 02403-278  
JOB NUMBER: WDP02403-278 (PHOTO: PICKUP, ENTICEMENT)

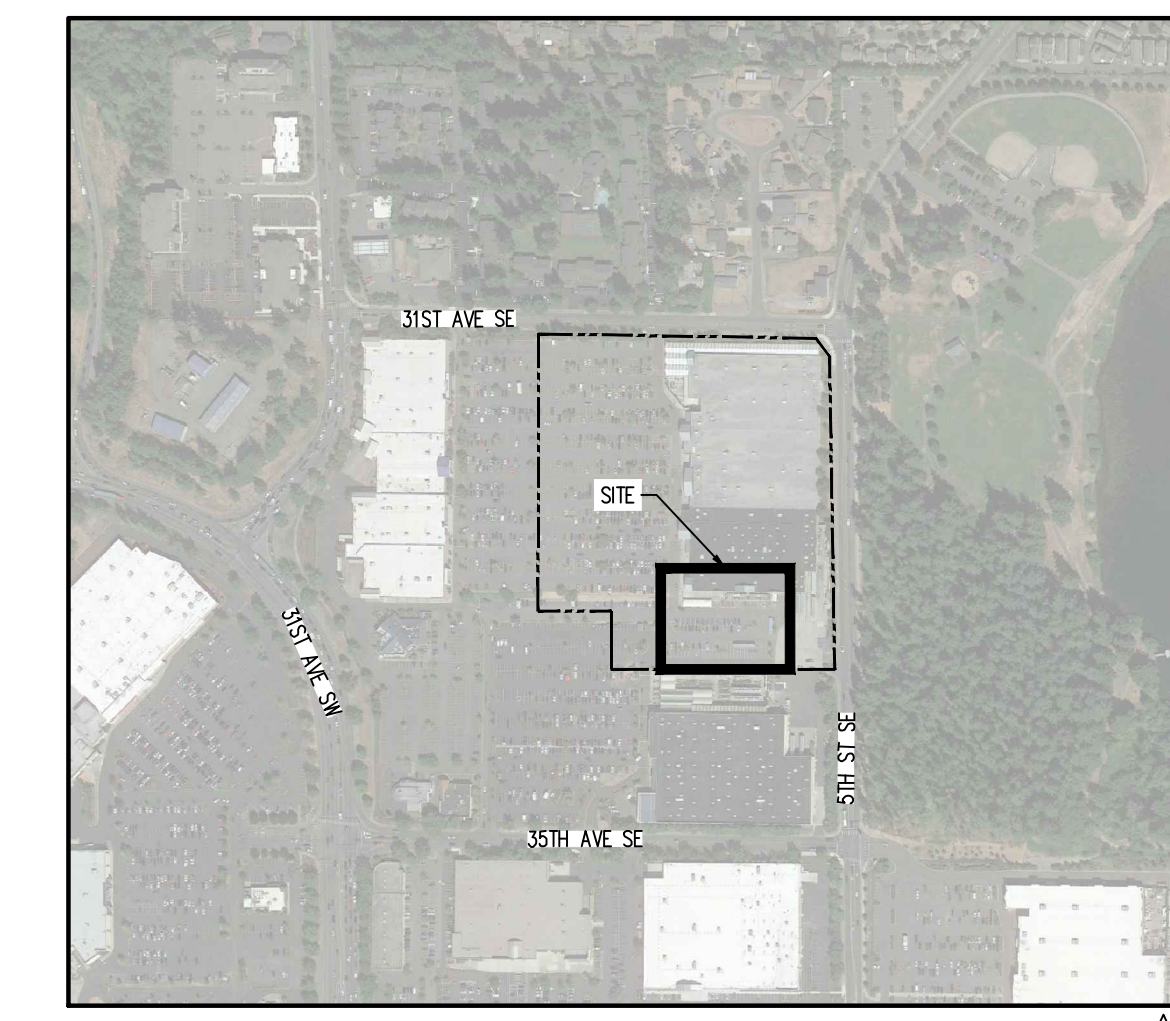
ISSUE BLOCK

PR#1	01/25/22
------	----------

CHECKED BY: RJC  
DRAWN BY: JRC  
PROTO CYCLE:  
DOCUMENT DATE: 09/08/21

PICKUP DEMOLITION & SITE PLAN

SHEET:  
**CS1**



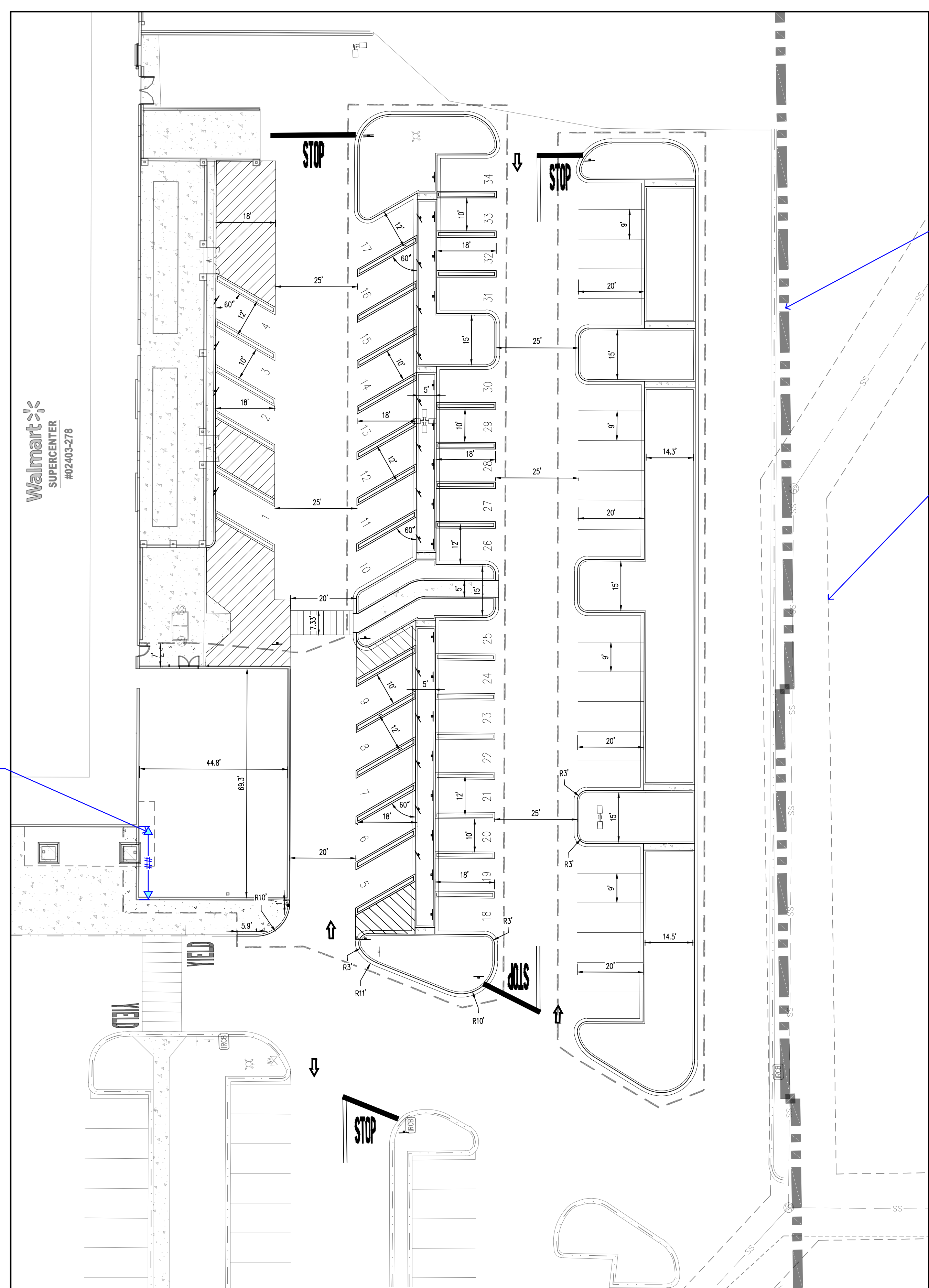
KEY MAP  
APPROX. 1" = 500'

LEGEND

- PROPERTY BOUNDARY LINE
- PROPOSED SAWCUT LINE
- EXISTING BUILDING
- EXISTING CURB AND GUTTER TO REMAIN
- PROPOSED CURB AND GUTTER
- EXISTING ASPHALT PAVEMENT TO REMAIN
- EXISTING CONCRETE PAVEMENT TO REMAIN
- PROPOSED CONCRETE PAVEMENT
- PROPOSED SIGN
- PROPOSED BOLLARD

SITE NOTES

1. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY/COUNTY REGULATIONS AND CODES AND D.S.H.A. STANDARDS.
2. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF VESTIBULES, SLOPE PAVING, SIDEWALKS, EXIT PORCHES, TRUCK DOCKS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
3. ALL DIMENSIONS ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
4. EXISTING STRUCTURES WITHIN CONSTRUCTION LIMITS ARE TO BE ABANDONED, REMOVED OR RELOCATED AS NECESSARY. ALL COST SHALL BE INCLUDED IN BASE BID.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, (UNLESS OTHERWISE NOTED ON PLANS) INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES REQUIREMENTS AND PROJECT SITE WORK SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE BID.
6. THE SITE WORK FOR THIS PROJECT SHALL MEET OR EXCEED "THE SITE SPECIFIC SPECIFICATIONS".



HORIZONTAL CONTROL PLAN  
APPROX. 1" = 20'

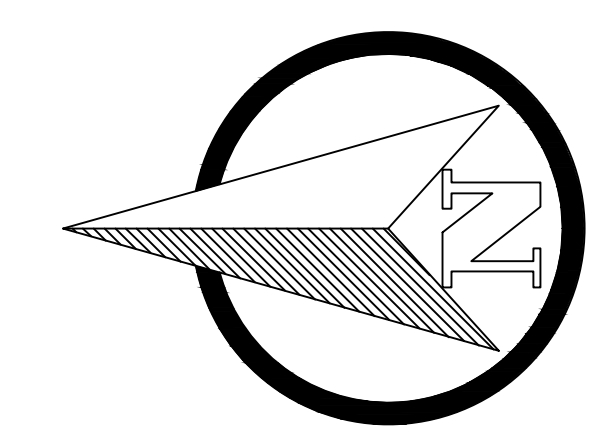
Horizontal control is required for proposed ADA ramp improvements at driveway. ( Civil Plans, CS1A)

Provide bearing and dimensions for property boundary (Civil Plans, CS1A)

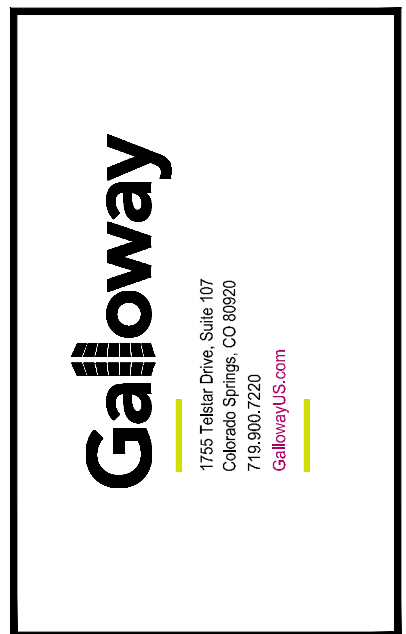
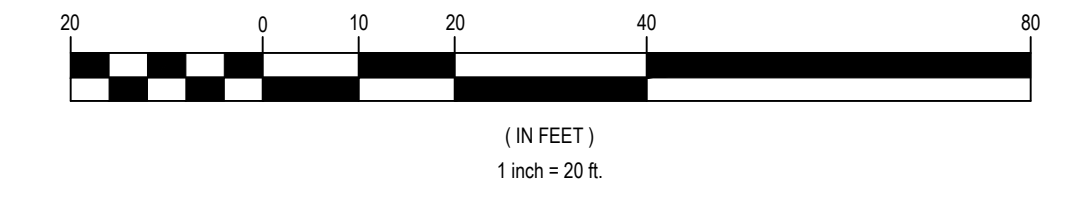
Callout easement with type and dimensions (Civil Plans, CS1A)

add dimension here (Civil Plans, CS1A)

Call out the location that is used to set the location for your improvements.



GRAPHIC SCALE



STIPULATION FOR REUSE: THIS DRAWING WAS PREPARED FOR PUYALLUP, WA AND IS NOT TO BE REUSED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF GALLOWAY. ANY REUSE OF THIS DRAWING FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF GALLOWAY IS STRICTLY PROHIBITED AND WILL BE CONSIDERED A VIOLATION OF THE LAW.

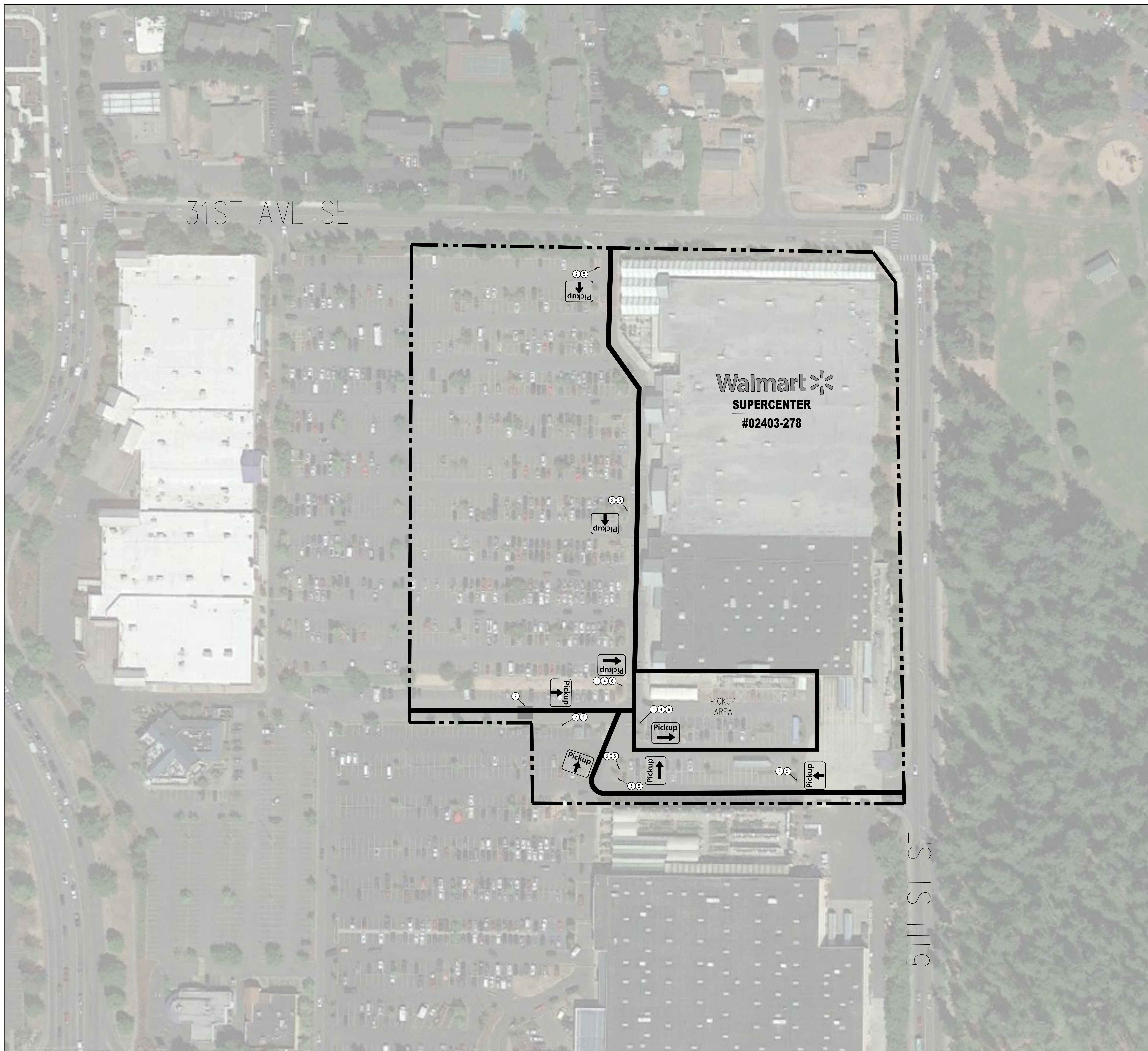


Walmart  
PUYALLUP, WA  
310 31ST AVE SE  
STORE NO. 02403-278  
JOB NUMBER: WDP02403-278 PHOTO: PICKUP ENTINCMNT

ISSUE BLOCK		
PR#	DATE	DESCRIPTION
PR#1	01/25/22	

CHECKED BY: RCJ  
DRAWN BY: JRC  
PROTO CYCLE: -  
DOCUMENT DATE: 09/08/21

HORIZONTAL CONTROL PLAN  
SHEET: CS1A



31ST AVE SE

Walmart  
**SUPERCENTER**  
 #02403-278

PICKUP AREA

5TH ST SE

**SIGNAGE & STRIPING SCHEDULE NOTES**

- ① PROPOSED PICKUP SIGNAGE, LEFT. SEE DETAIL SHEET CS3 FOR SIGNAGE AND LOCATION DETAILS.
- ② PROPOSED PICKUP SIGNAGE, STRAIGHT. SEE DETAIL SHEET CS3 FOR SIGNAGE AND LOCATION DETAILS.
- ③ PROPOSED PICKUP SIGNAGE, RIGHT. SEE DETAIL SHEET CS3 FOR SIGNAGE AND LOCATION DETAILS.
- ④ PROPOSED PICKUP SIGNAGE TO BE MOUNTED TO EXISTING SIGN POST. (REF. SITE DETAILS)
- ⑤ NEW SIGN MOUNTING AND BASE WITH BREAK AWAY POST.
- ⑥ EXISTING SIGNAGE TO BE REMOVED AND PROPERLY DISPOSED OF AND BASE TO BE REUSED AND LEFT IN PLACE.
- ⑦ EXISTING PICKUP PAVEMENT MARKING TO BE REMOVED AND RECEIVE SEALCOAT.

**SITE SIGNAGE LEGEND**

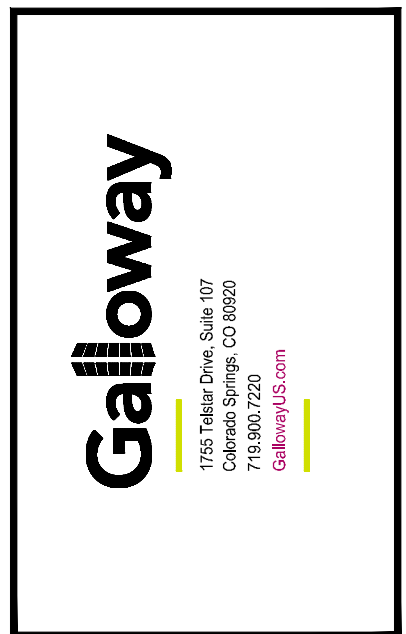
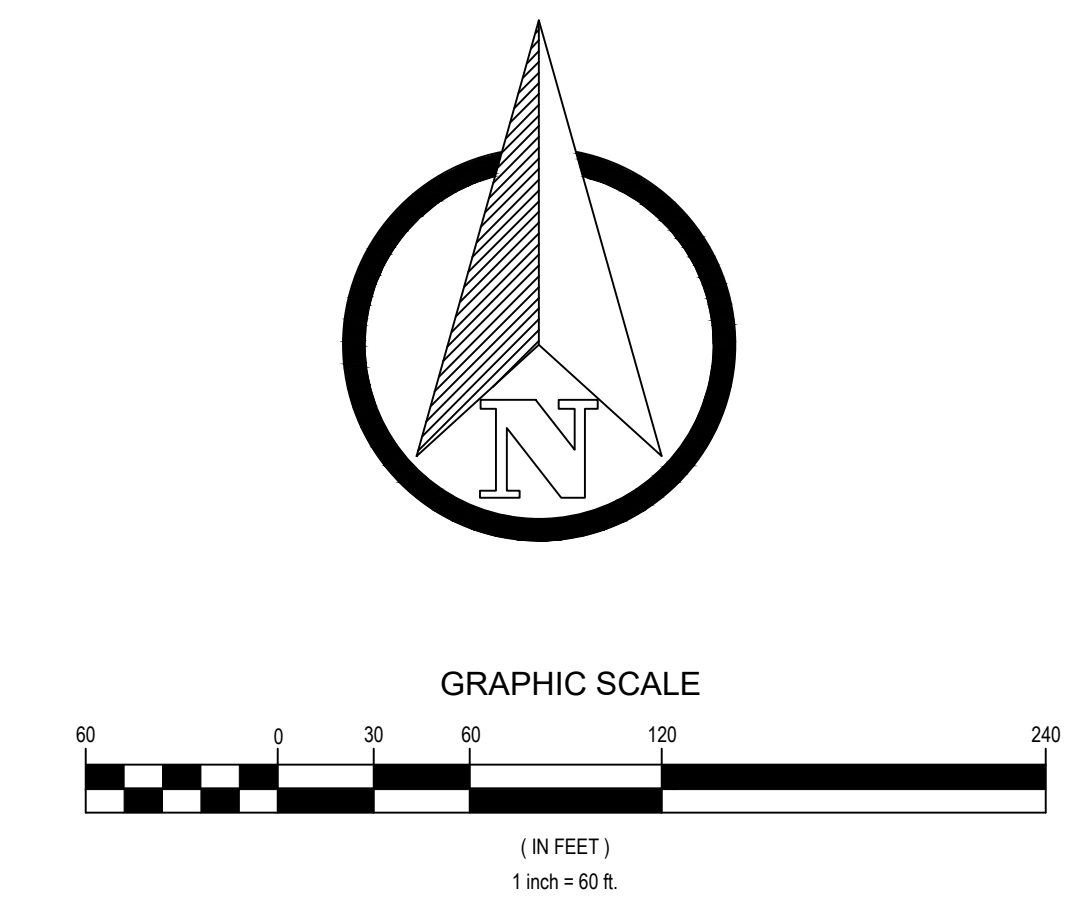
- PROPERTY LINE
- PROPOSED PATH OF TRAVEL FOR PICKUP CUSTOMER.
- PROPOSED PICKUP AREA
- PROPOSED LIMITS OF SEAL COAT

**SITE SIGNAGE NOTES**

1. THIS PLAN WAS PREPARED BASED ON AN AERIAL CAPTURED 08/14/2020. THIS PLAN IS FOR ILLUSTRATIVE PURPOSES ONLY. ACTUAL FIELD CONDITIONS MAY VARY SIGNIFICANTLY FROM THIS DRAWING.
2. REFERENCE SITE DETAILS FOR SIGN LOCATION & VESTIBULE CROSSWALK DETAILS FOR SITE SIGNAGE OFFSETS.

PICKUP EXTERIOR SIGN SCHEDULE		
DESCRIPTION	DIMENSIONS	QUANTITY
WAITING SPACES LEFT	18 X 24	-
WAITING SPACES RIGHT	18 X 24	-
WAITING SPACES AHEAD	18 X 24	-
RESERVED WAITING	18 X 24	-
PICKUP LEFT PHARMACY RIGHT	18 X 24	-
PICKUP RIGHT PHARMACY LEFT	18 X 24	-
STOP THANKS FOR ORDERING	18 X 36	-
PICKUP HOURS	18 X 36	-
RESERVED	18 X 18	34
PHONE NUMBER	8 X 18	34
VERTICAL PICKUP	18 X 36	34
PICKUP LEFT	18 X 24	1
PICKUP AHEAD	18 X 24	5
PICKUP RIGHT	18 X 24	2

ALL PICKUP WAYFINDING AND STALL SIGNS ARE WALMART SUPPLIED AND CONTRACTOR INSTALLED. CONTRACTOR TO PLACE SIGN ORDER AT LEAST 3 WEEKS IN ADVANCE. ORDER SHALL BE SENT VIA EMAIL TO GETTY THOMAS (Getty.Thomas@walmart.com) AND BRAD KEENER (Bradley.Keener@walmart.com). REQUEST SHALL CONTAIN A DELIVERY ADDRESS, DESIRED DELIVERY DATE, AND ANY SITE SPECIFIC SIGN SIZE AND/OR COLORS BASED ON APPROVED PLANS.



STIPULATION FOR REUSE:  
 THIS DRAWING WAS PREPARED FOR WALMART, WA. THIS DRAWING IS THE PROPERTY OF GALLOWAY AND IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF GALLOWAY. ANY REUSE OF THIS DRAWING WITHOUT THE WRITTEN PERMISSION OF GALLOWAY IS PROHIBITED BY THE LAW.



Walmart  
 PUYALLUP, WA  
 310 31ST AVE SE  
 STORE NO: 02403-278  
 JOB NUMBER: WDP020403.278 (PROTO: PICKUP) ENTICEMENT

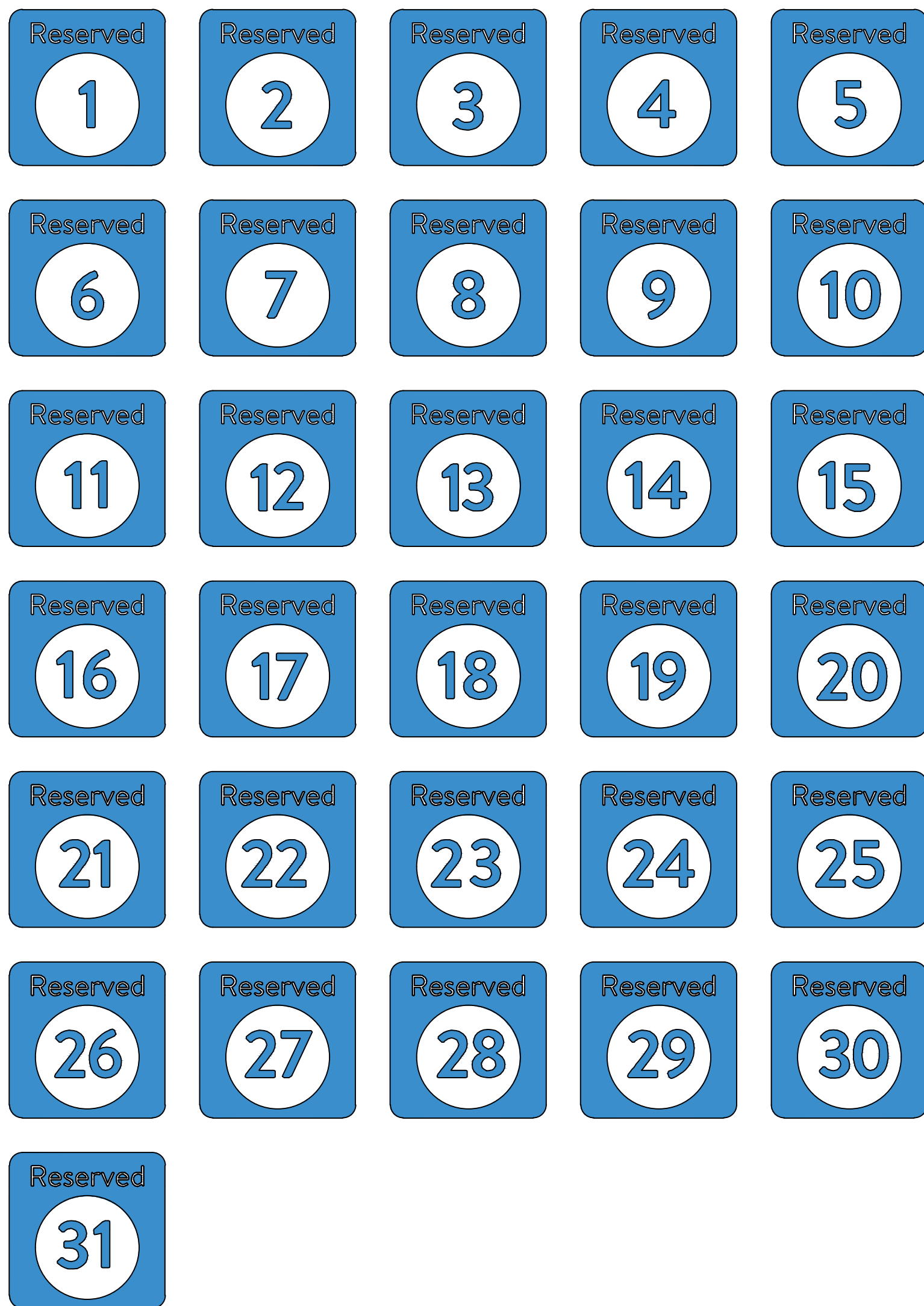
ISSUE BLOCK		
PR#	DATE	DESCRIPTION
△ PR#1	01/25/22	

CHECKED BY: RCJ  
 DRAWN BY: JRC  
 PROTO CYCLE: -  
 DOCUMENT DATE: 09/08/21

**SITE SIGNAGE PLAN**

SHEET: CS2





Reserved  
 1  
 2  
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 31

Stall Designation Signs  
 18" x 18" 2.25 SF

Logo Signs (Large)  
 Also Pickup Hours sign size  
 36" x 18"

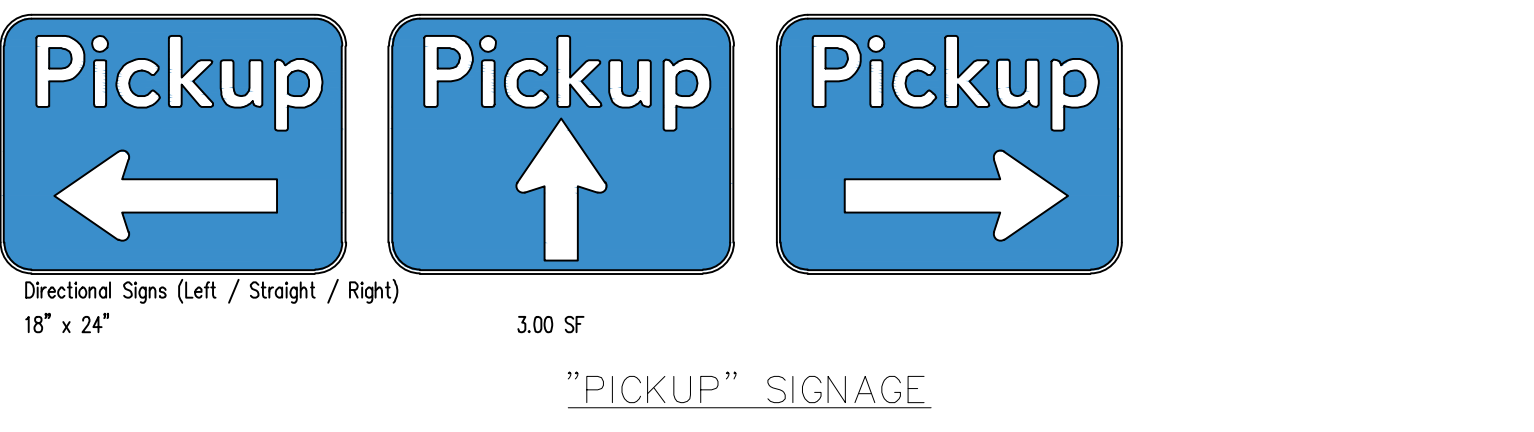
Logo Signs (Small)  
 18" x 8" 1.00 SF

For pickup, please call:  
 555-555-5555

Call In Sign  
 18" x 8" 1.00 SF

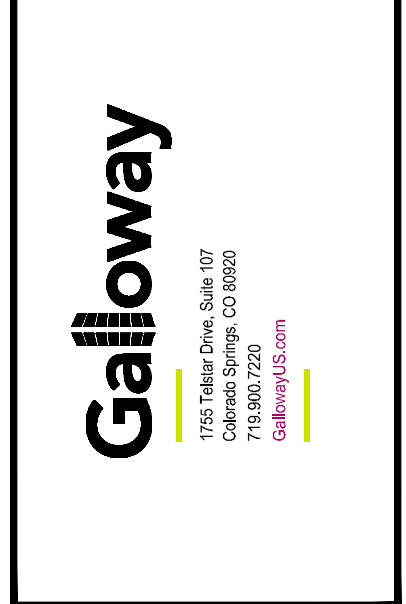
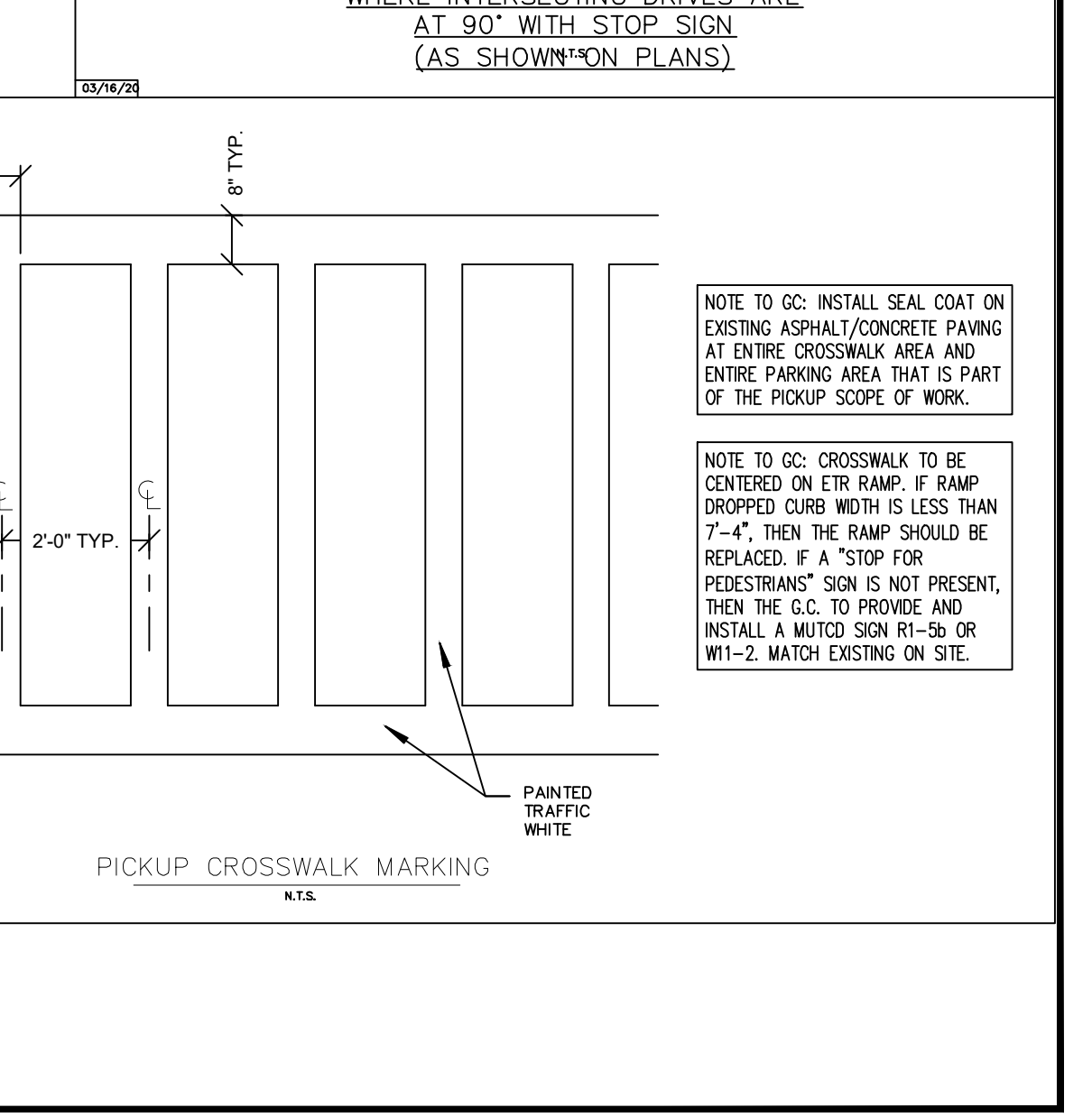
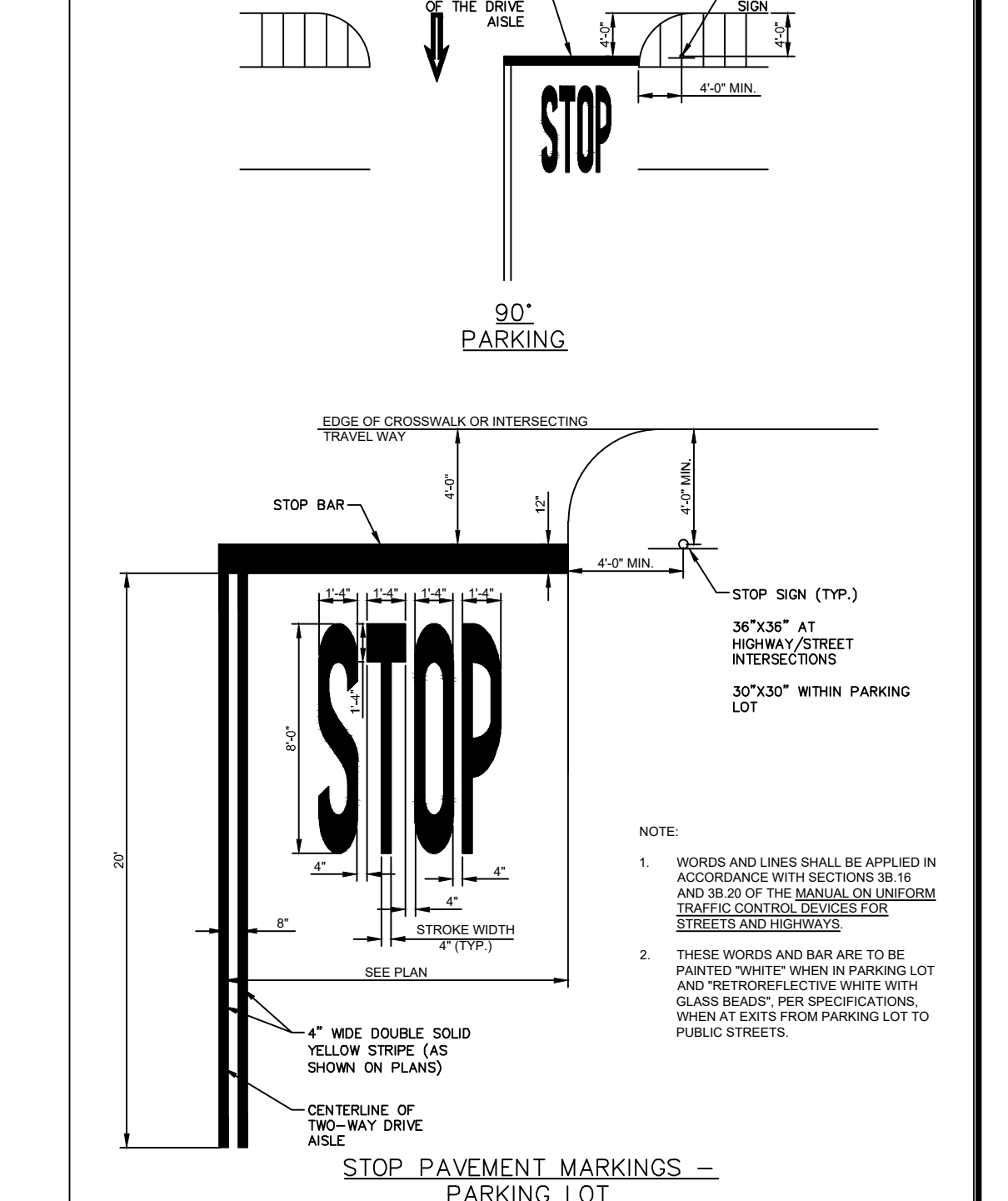
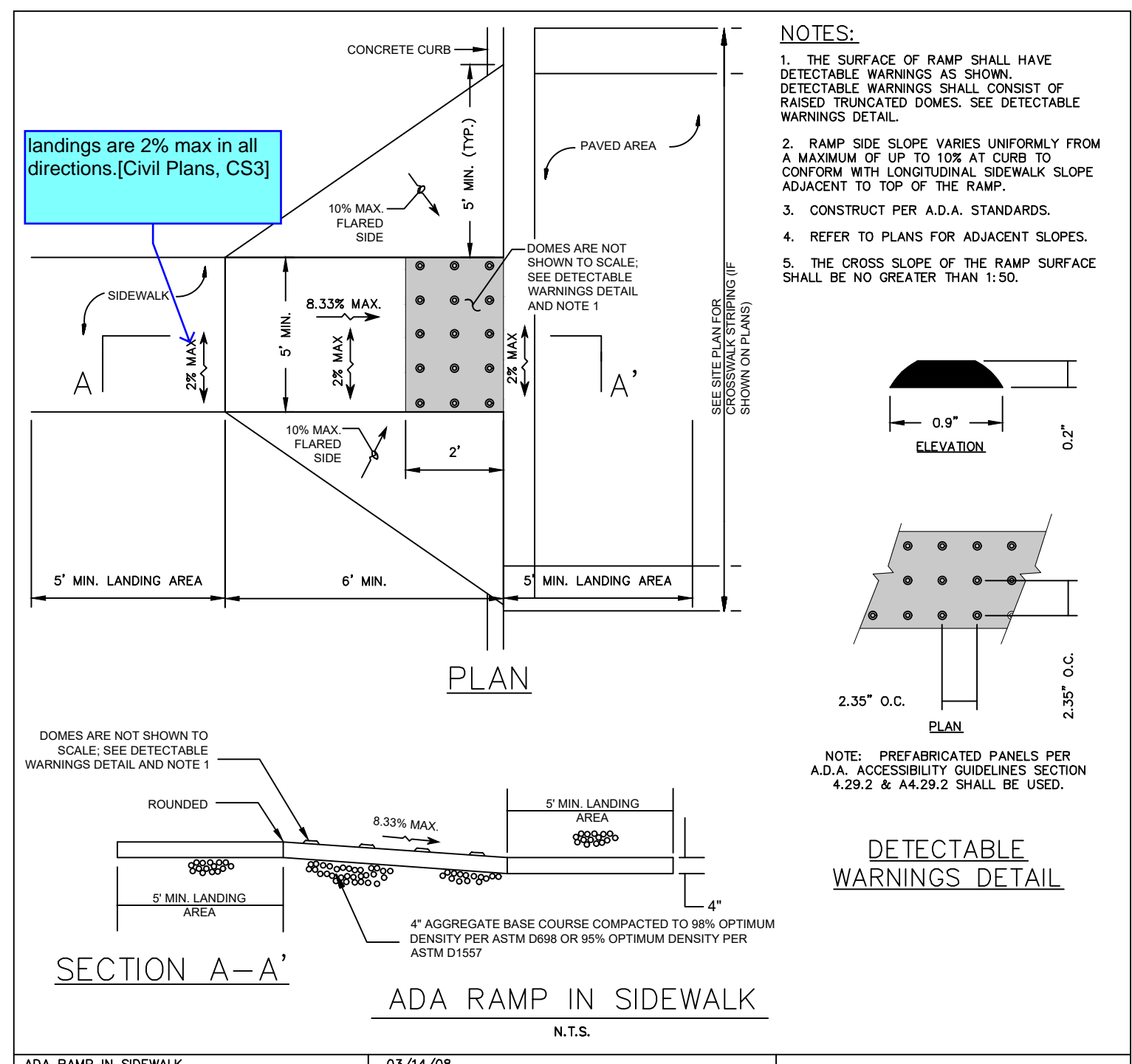
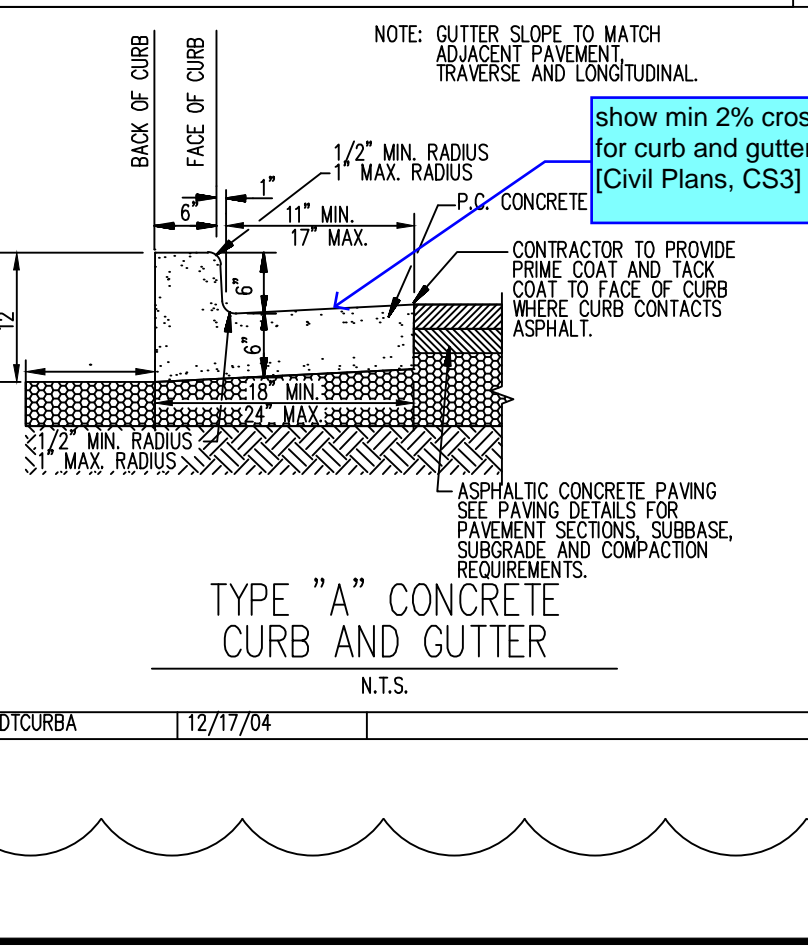
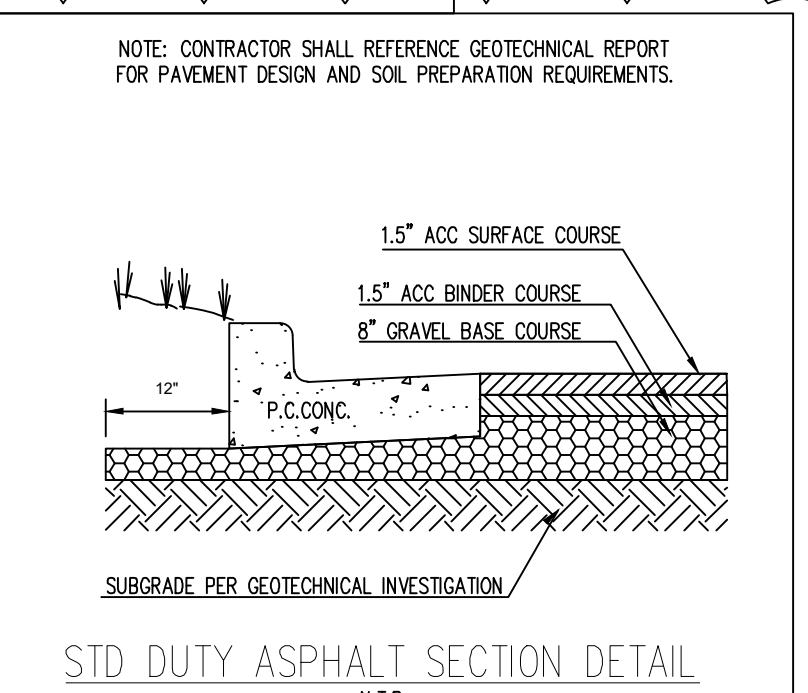
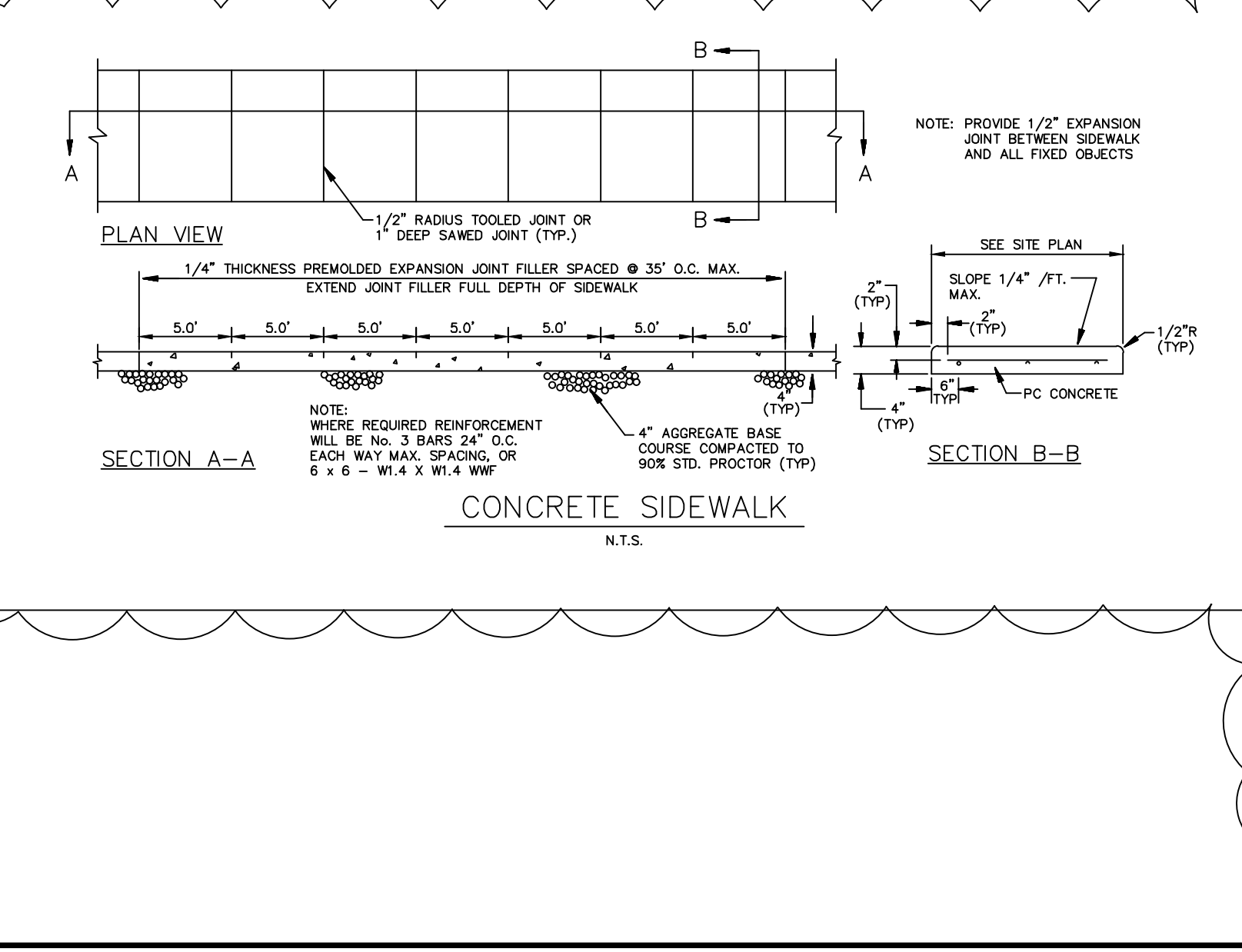
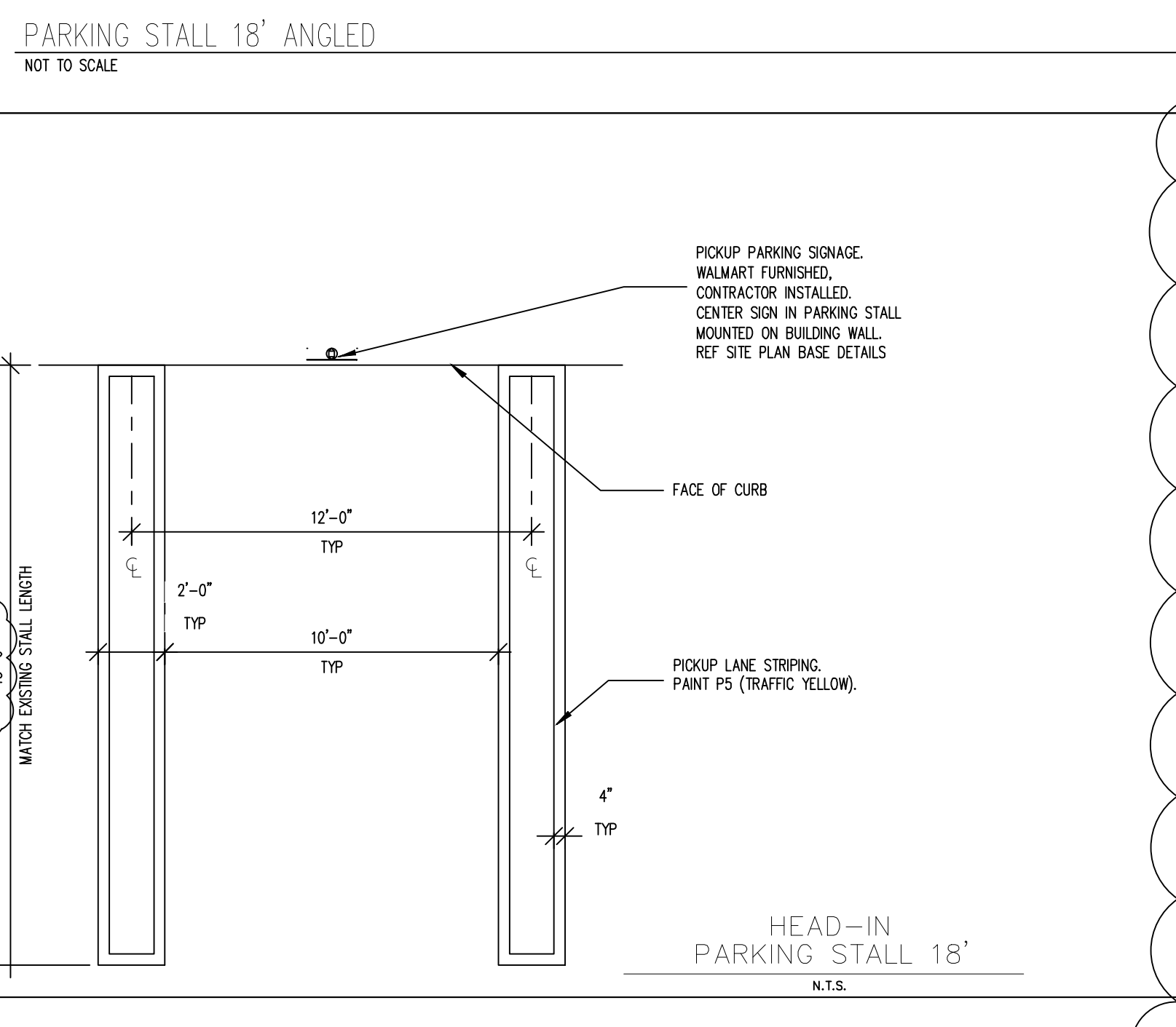
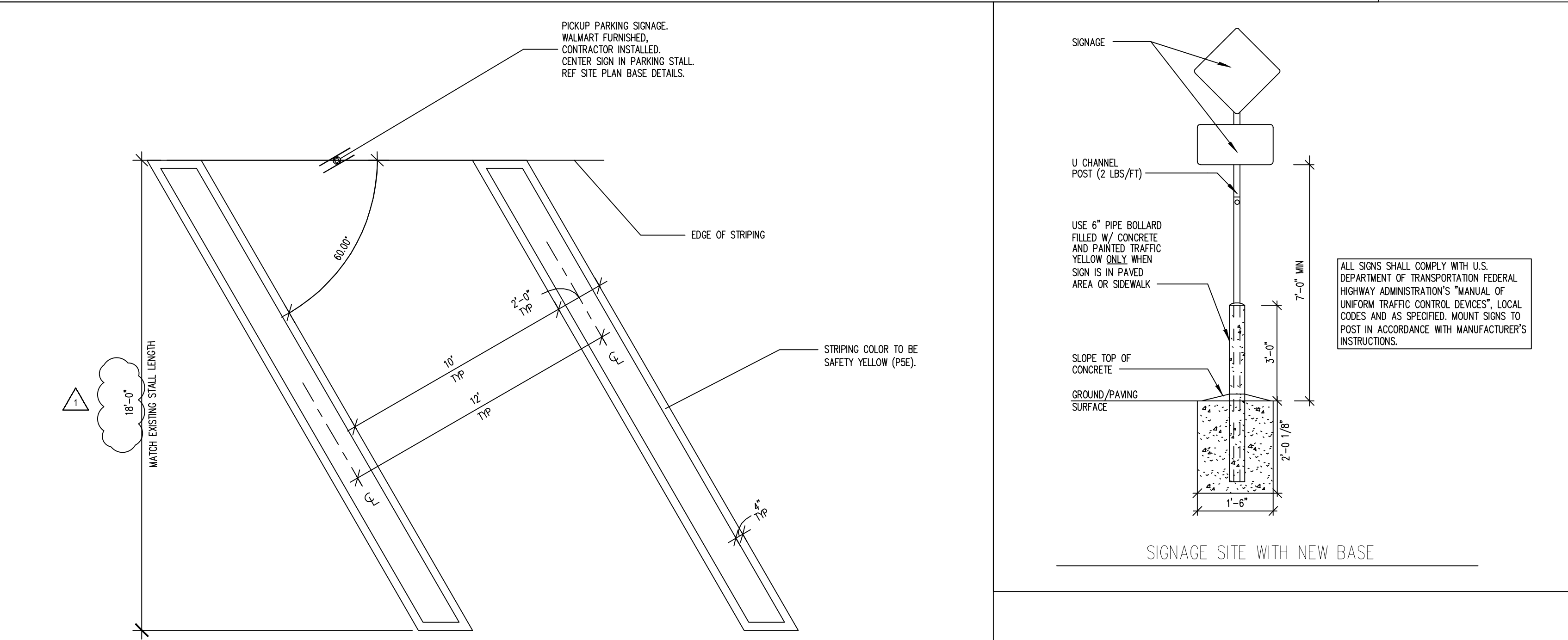
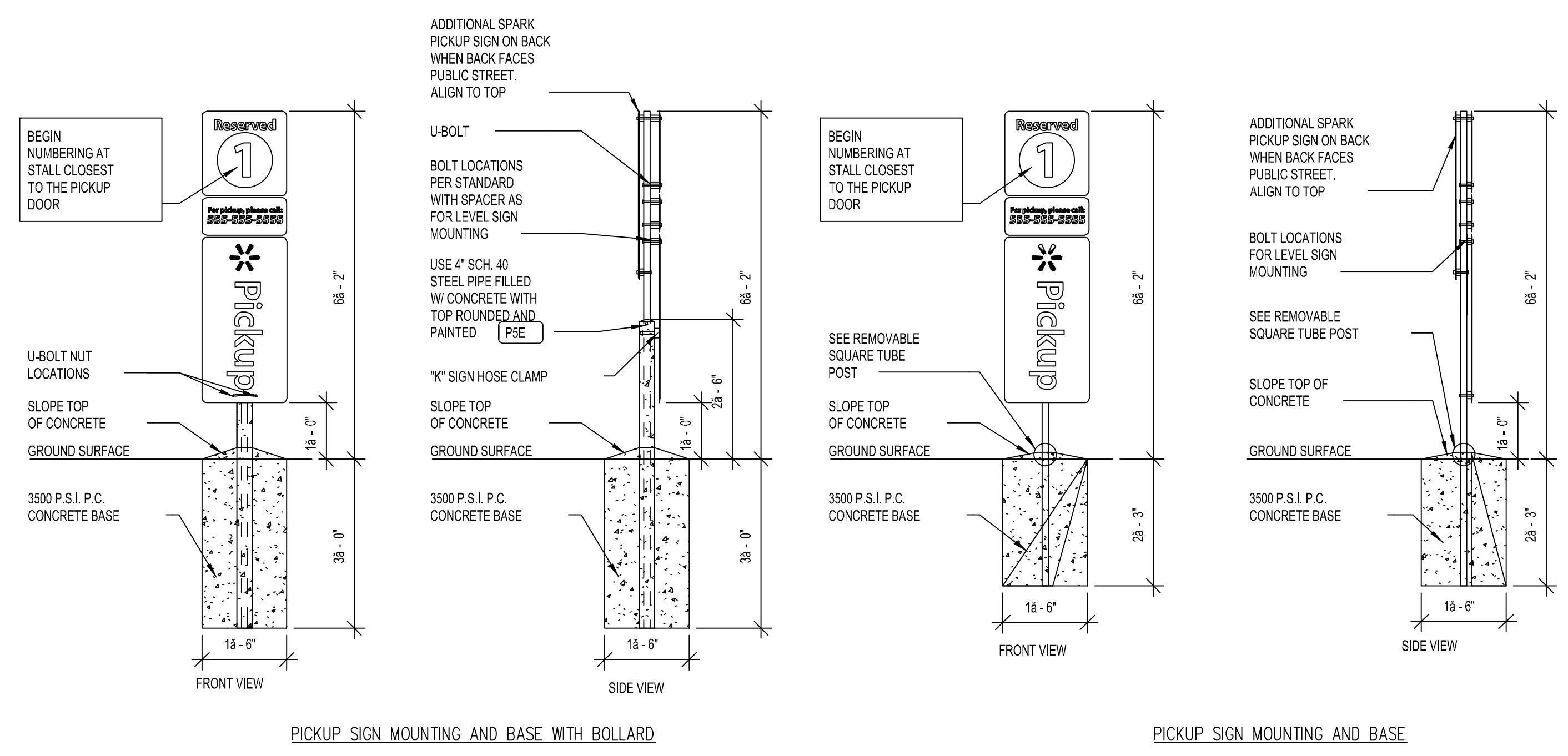
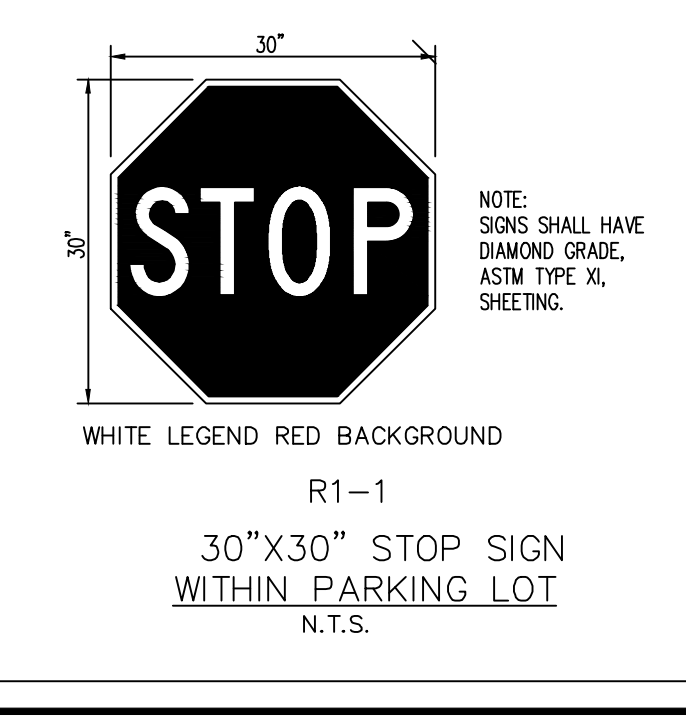
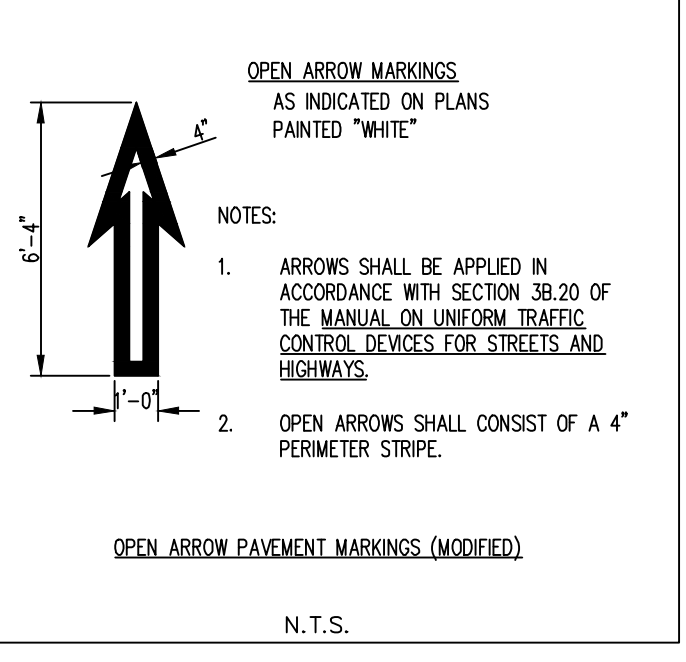
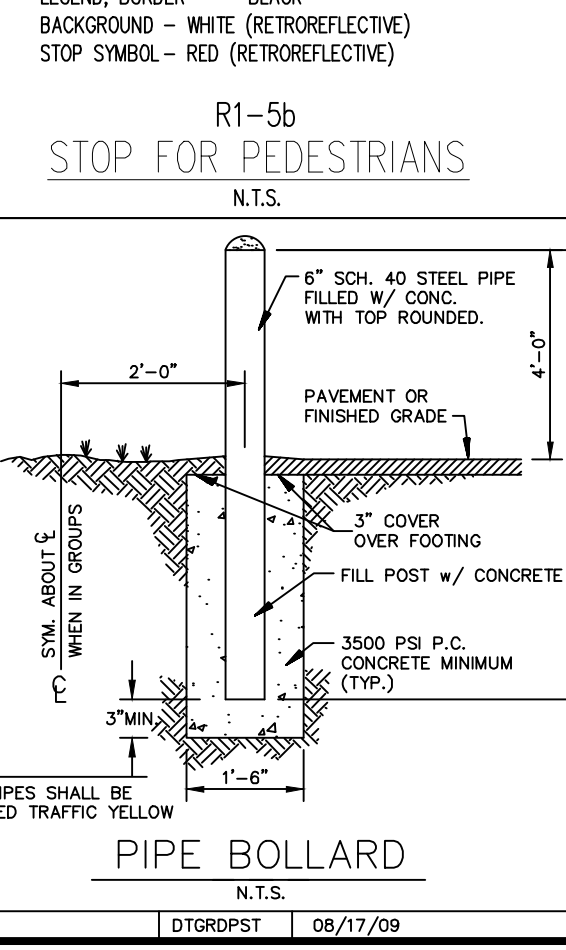
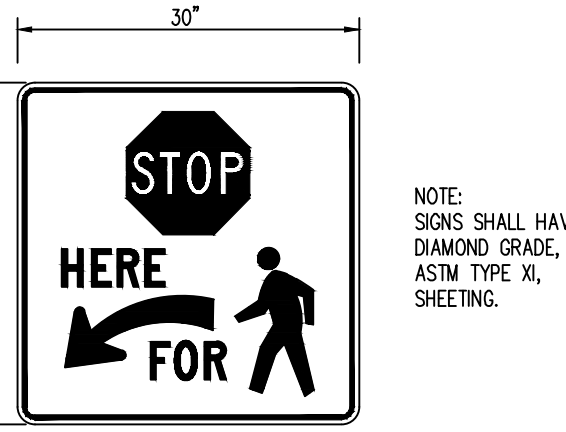
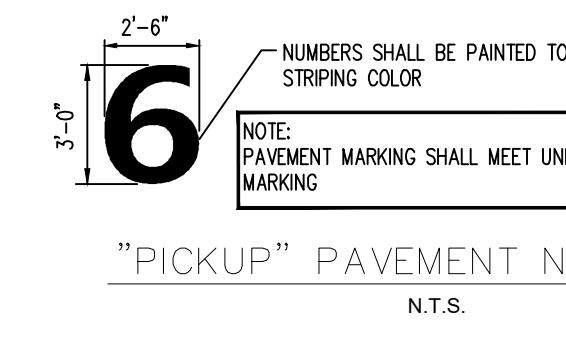
For pickup, please call:  
 555-555-5555

Parking Stall Placard



**FINISH LEGEND**

P76	WALMART BLUE SIGN/76
P5E	SAFETY YELLOW



STIPULATION FOR REUSE  
 THIS DRAWING WAS PREPARED FOR THE PROJECT OF PUYALLUP, WA. IT IS NOT TO BE REUSED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF THE ENGINEER. THE ENGINEER'S LIABILITY IS LIMITED TO THE PROFESSIONAL ENGINEERING ACT AND THE PRACTICE THEREOF.



Walmart  
 PUYALLUP, WA  
 310 31ST AVE SE  
 STORE NO: 07403-278  
 JOB NUMBER: WDP02406.230 PHOTO: PICKUP ENTICEMENT

ISSUE BLOCK

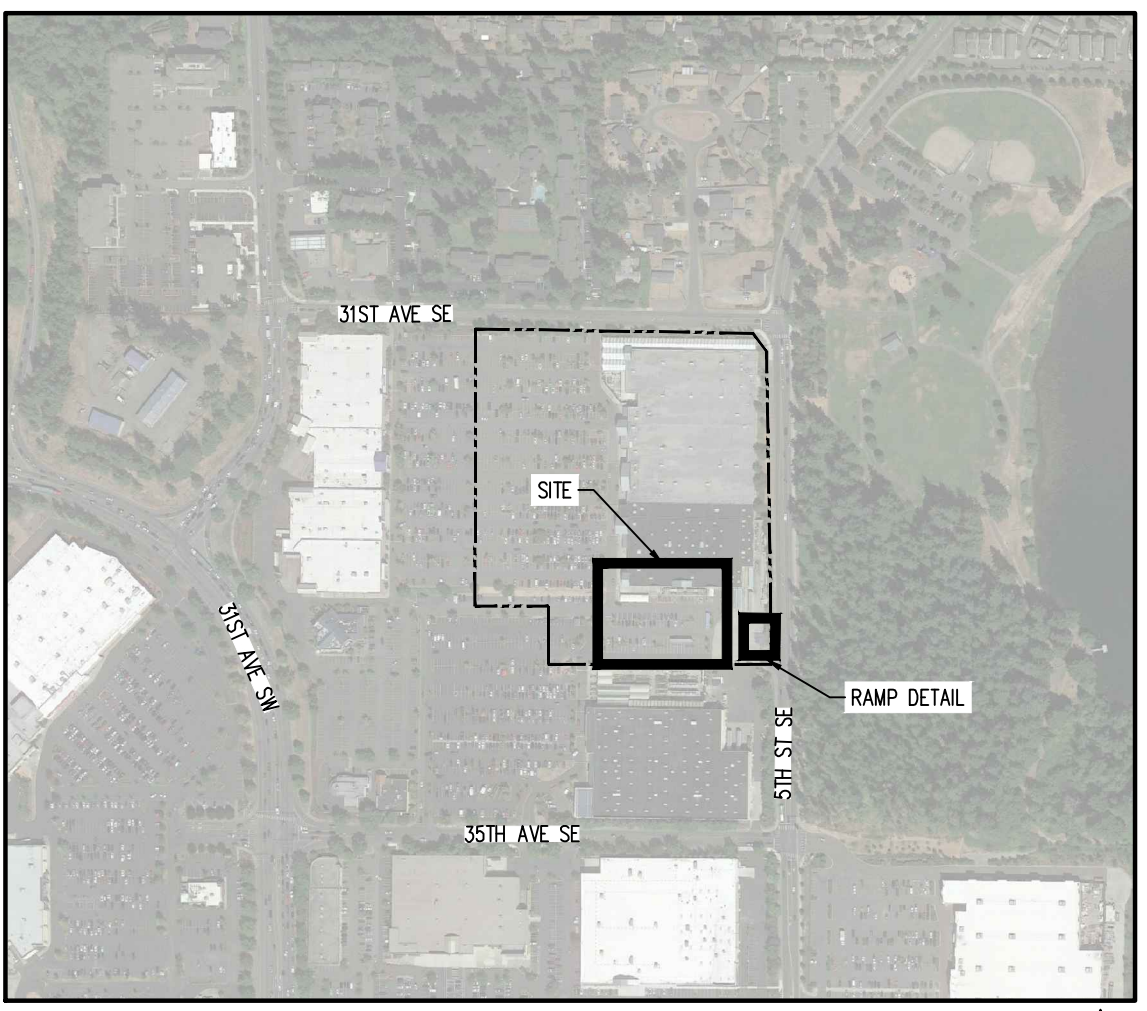
PR#1	01/25/22

CHECKED BY: RCJ  
 DRAWN BY: JRC  
 PROTO CYCLE: -  
 DOCUMENT DATE: 09/08/21

SITE DETAILS

SHEET: CS3

show all existing utilities on Plans. [Civil Plans, CS4]



KEY MAP  
APPROX. 1" = 500'

THIS DRAWING WAS PREPARED FOR PUYALLUP, WA. DATE ON 09/07/2022. AND IT IS NOT TO BE USED FOR ANY OTHER PROJECTS WITHOUT THE WRITTEN PERMISSION OF GALLOWAY ENGINEERS. UNLESS INDICATED OTHERWISE, ALL DIMENSIONS AND ELEVATIONS ARE TO BE TAKEN FROM THE CENTERLINE OF THE ROAD UNLESS OTHERWISE NOTED.



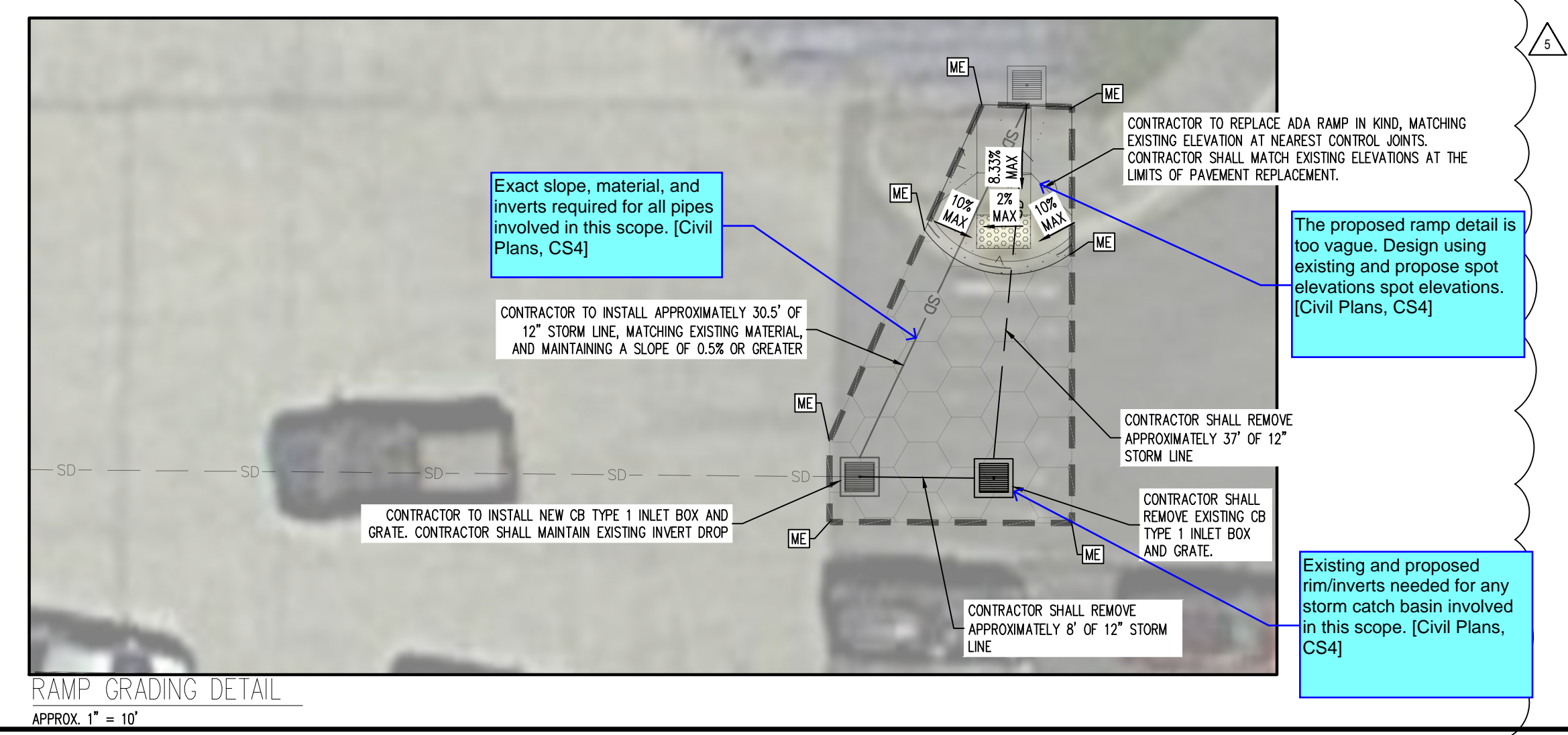
ISSUE BLOCK		
PR#1	01/25/22	
CCD#1	09/01/22	

CHECKED BY: RCJ  
DRAWN BY: JRC  
PROTO CYCLE: -  
DOCUMENT DATE: 09/08/21



OVERALL GRADING PLAN  
APPROX. 1" = 10'

Include City Standard Stormwater Notes per COP Standard Section 207. [Civil Plans, CS4]



RAMP GRADING DETAIL  
APPROX. 1" = 10'

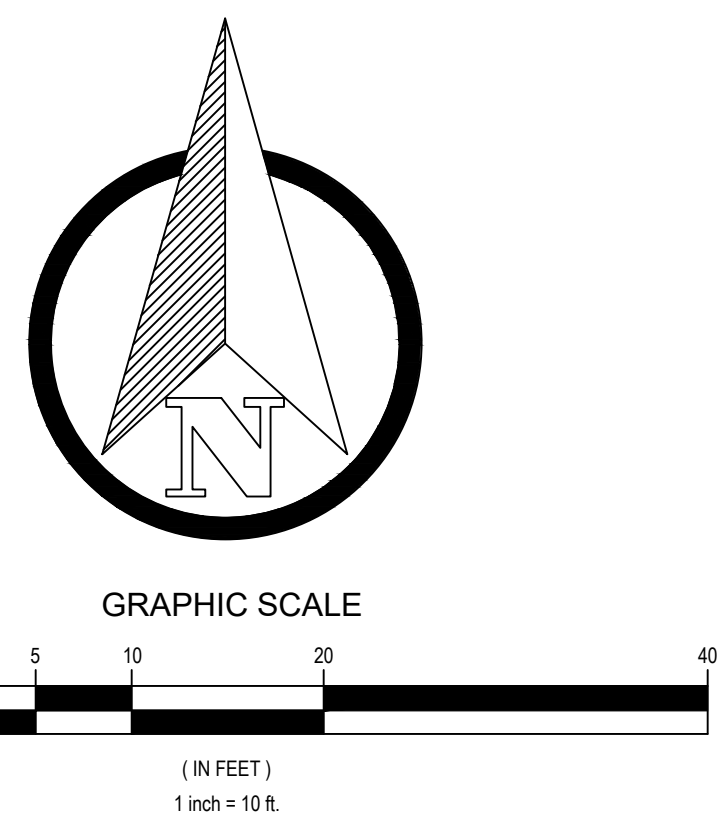
GRADING LEGEND

---	PROPERTY BOUNDARY LINE
- - - -	PROPOSED SAMUIT LINE
---	EXISTING MAJOR CONTOUR
- - - -	EXISTING MINOR CONTOUR
---	PROPOSED MAJOR CONTOUR
- - - -	PROPOSED MINOR CONTOUR
15.00	PROPOSED SPOT ELEVATION
TBC	PROPOSED TOP OF CURB ELEVATION
FL	PROPOSED FLOWLINE ELEVATION
FF	FINISHED FLOOR
FG	FINISHED GRADE
ME	MATCH EXISTING
2.00%	EXISTING SLOPE
2.00%	PROPOSED SLOPE
SM	EXISTING STORM MANHOLE
SI	EXISTING STORM INLET

- NOTES
- ALL GRADES SHOWN ARE TO FLOWLINE UNLESS OTHERWISE NOTED.
  - ALL PEDESTRIAN SIDEWALKS SHALL NOT EXCEED 2% CROSS SLOPE OR 5% LONGITUDINAL.

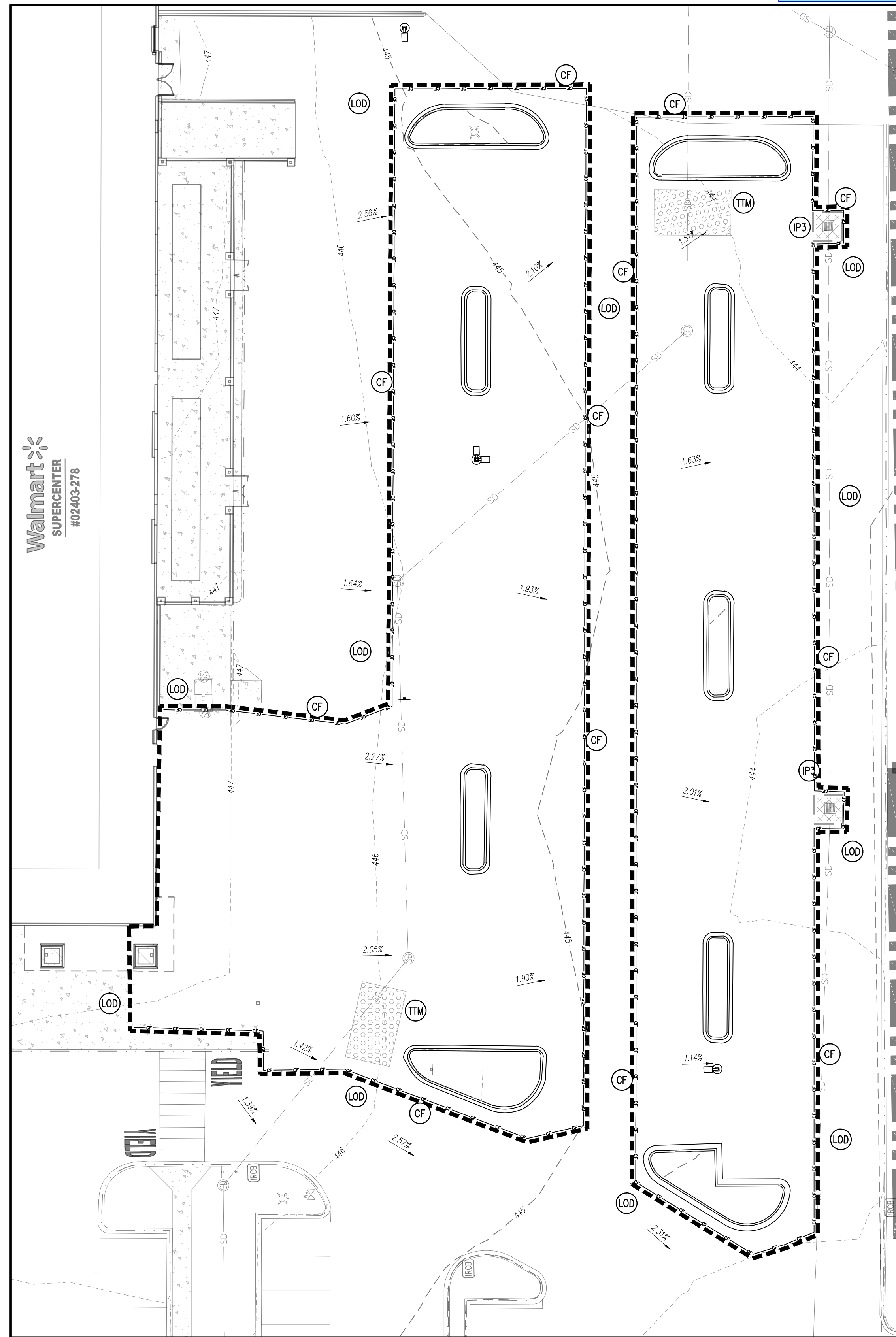
CAUTION - NOTICE TO CONTRACTOR

- ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
- WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POT-HOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.

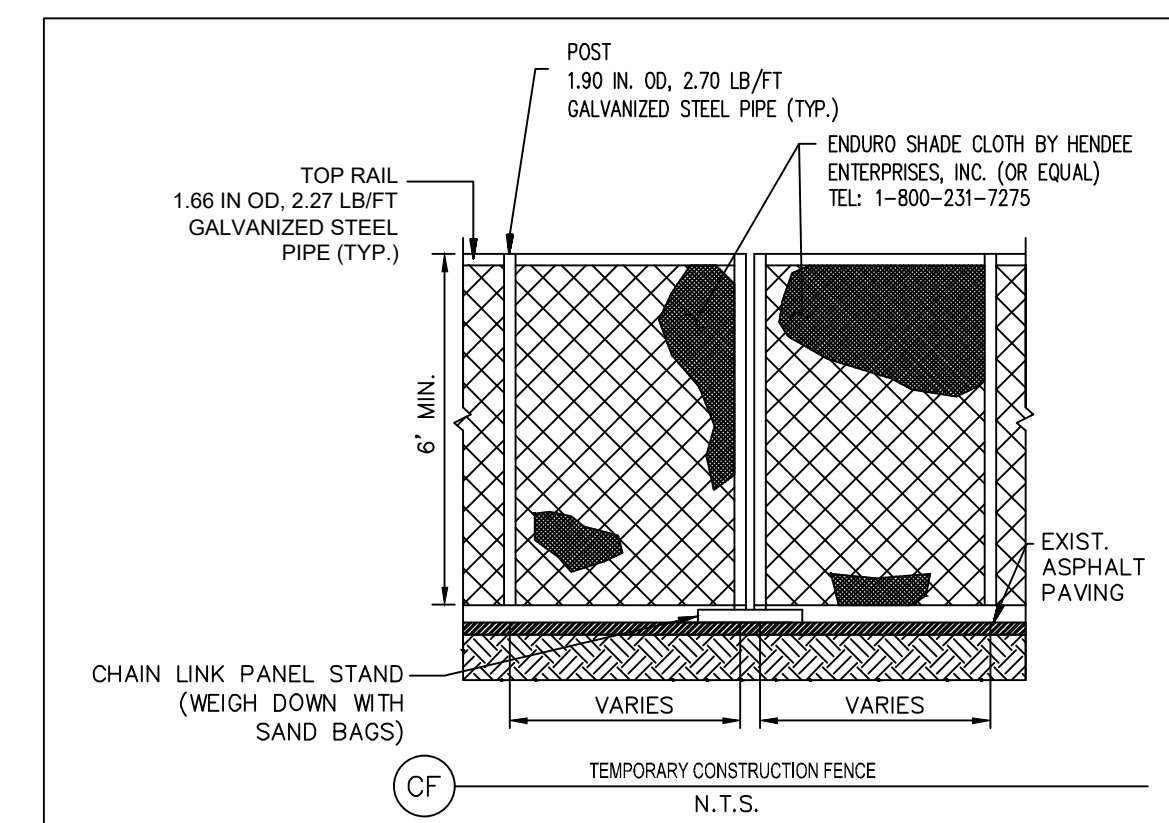
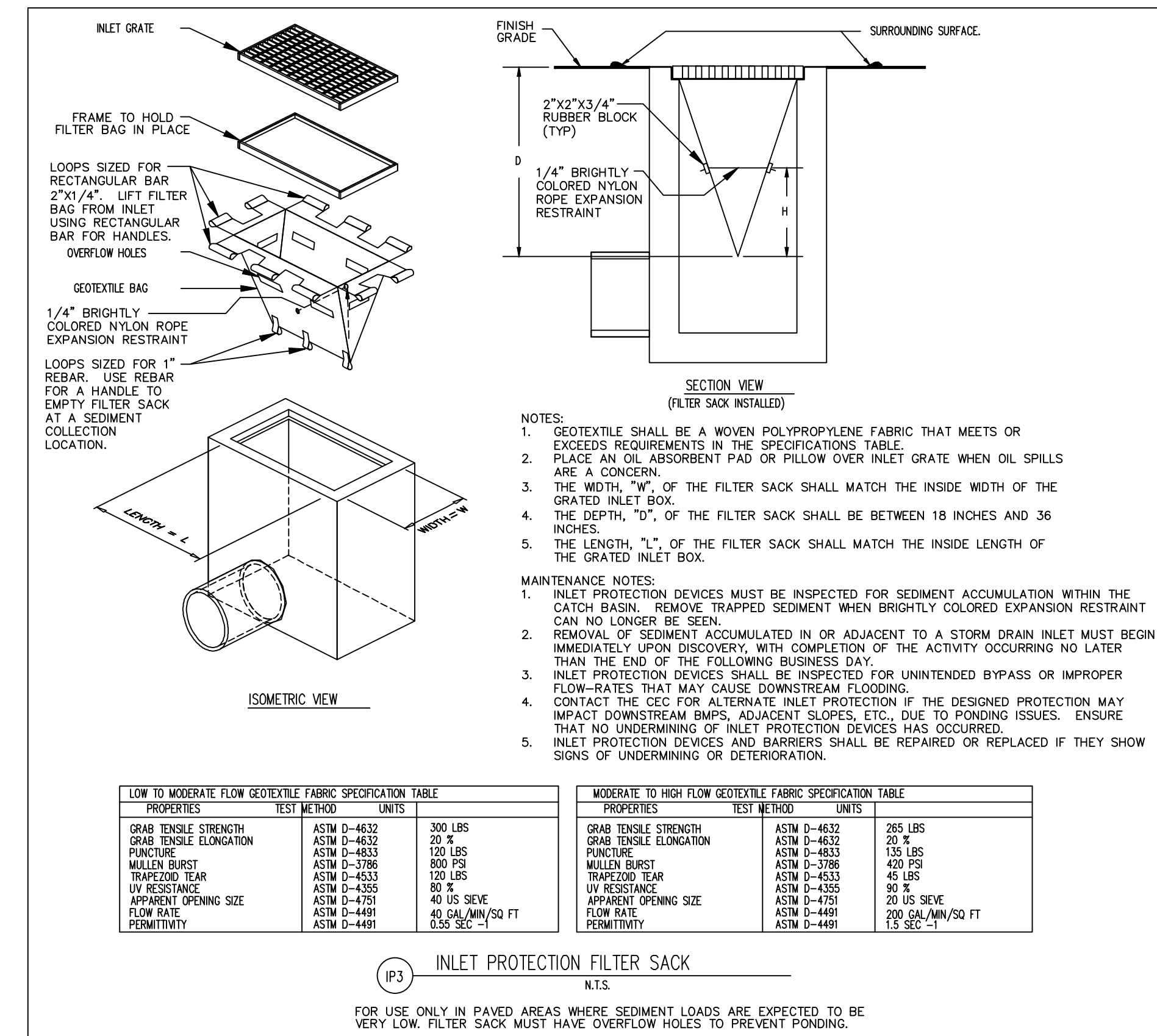


Include COP Standard Grading, Erosion, and Sedimentation Control Notes from COP Standards Section 505, [Civil Plans, CSS]

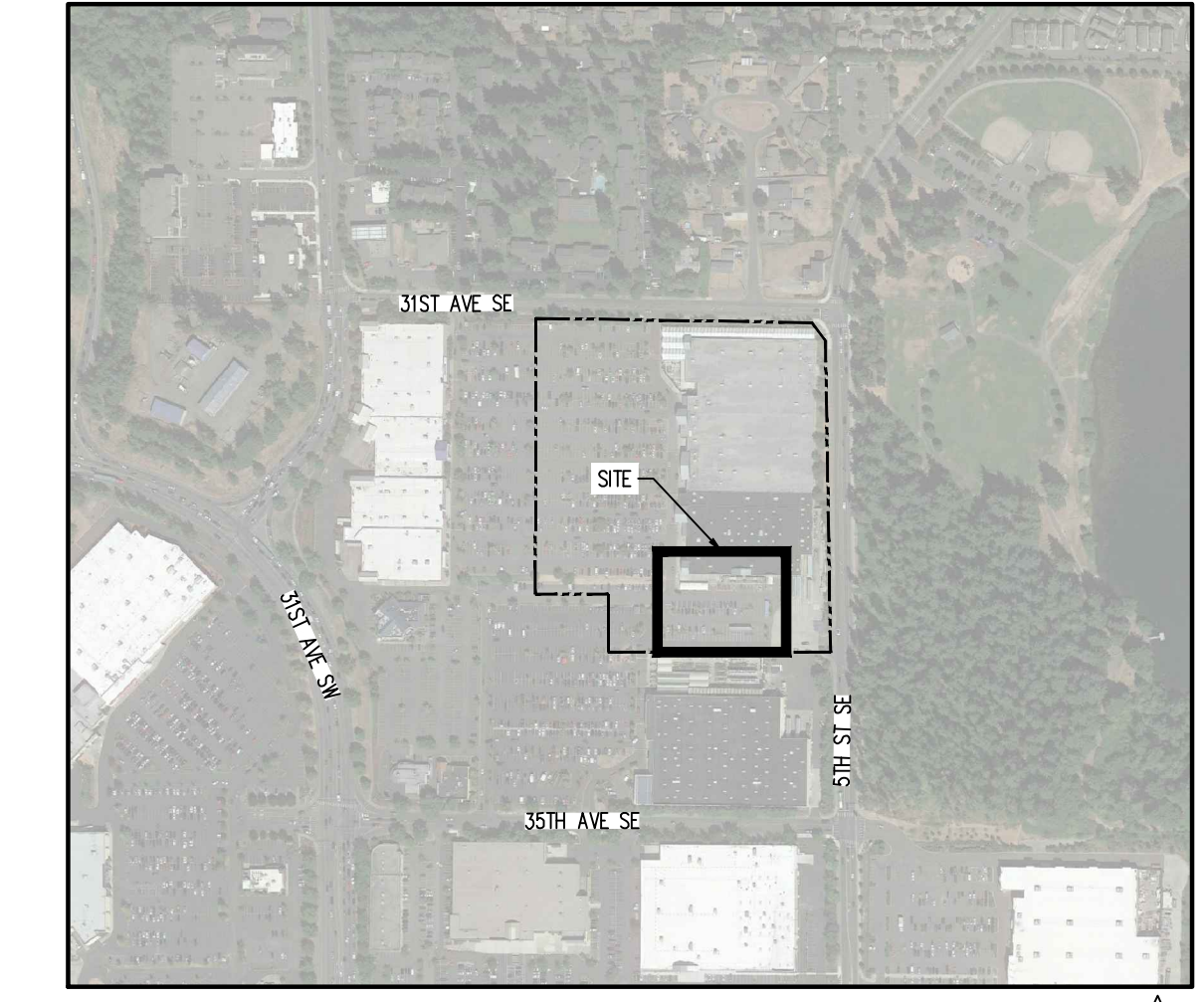
show all existing utilities on Plans. [Civil Plans, CSS]



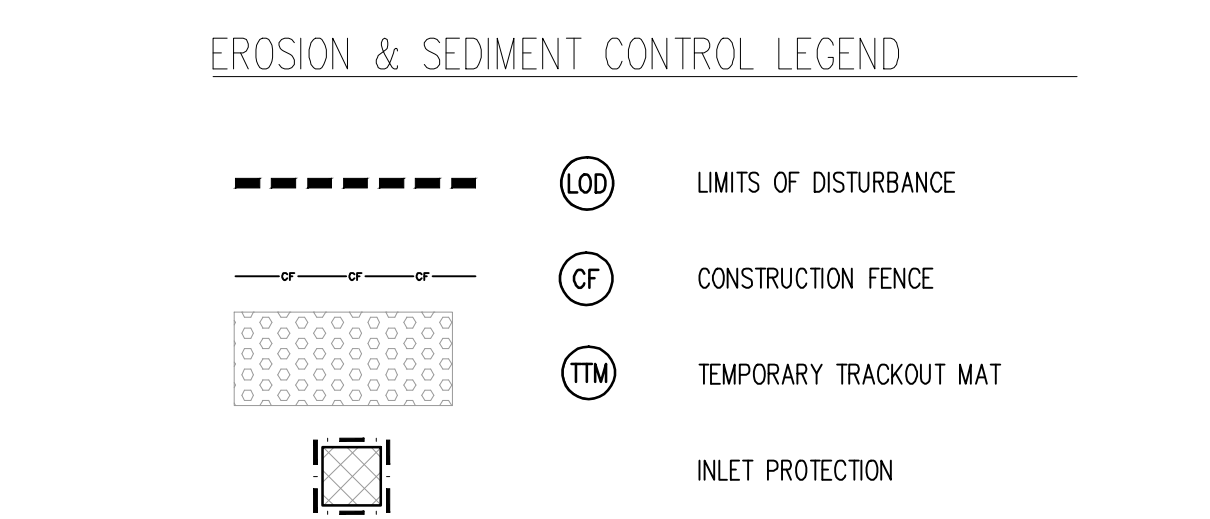
EROSION & SEDIMENT CONTROL PLAN  
SCALE: 1"=20'



LAST REVISED: MAY 2016  
CEC STANDARD DETAIL



KEY MAP  
APPROX. 1" = 500'

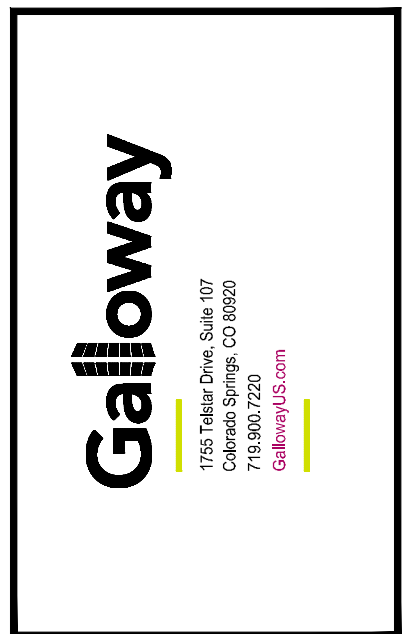
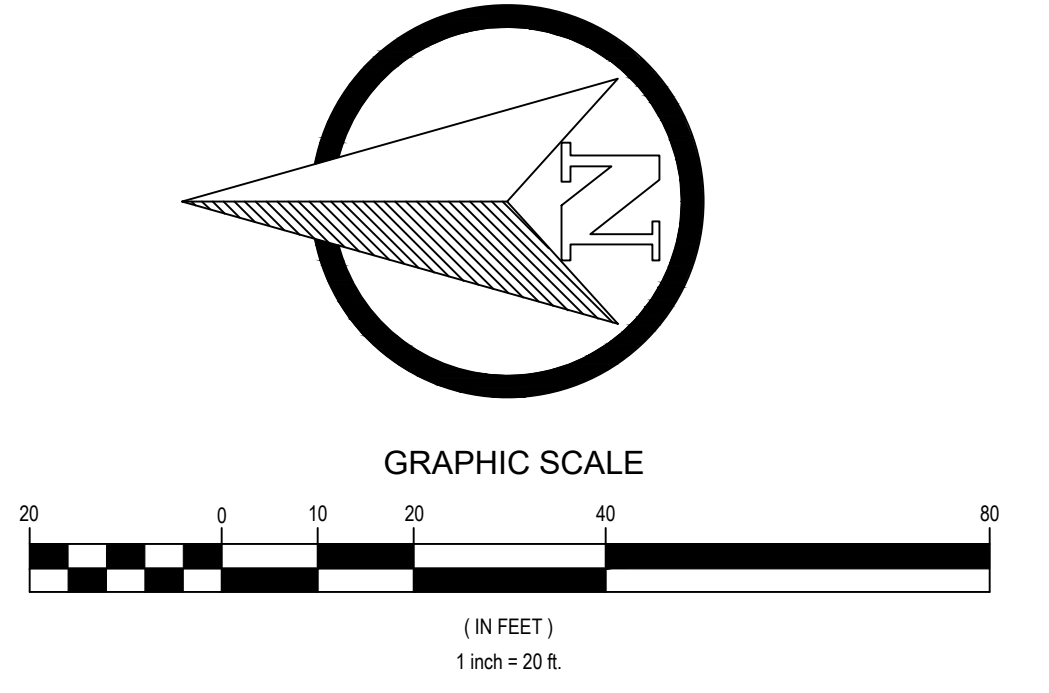


LIMITS OF DISTURBANCE TABLE		
TOTAL LOD = 34,640 SF / 0.7953 ACRES		
	EXISTING	PROPOSED
PERVIOUS AREA WITHIN LOD	1747 SF / 0.0401 ACRES	8,112 SF / 0.1862 ACRES
IMPERVIOUS AREA WITHIN LOD	32879 SF / 0.7548 ACRES	26,528 SF / 0.6091 ACRES

Remove all Limits of disturbance tables except for on the cover page. [Civil Plans, CSS, CS6]

**CONSTRUCTION EXIT NOTICE**  
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**SWPPP NOTE:**  
CONTRACTOR SHALL PREVENT ANY EROSION AND/OR SEDIMENTATION TRANSPORT FROM BEING RELEASED FROM THE REPAIR AREAS THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL UTILIZE BMP'S (STRAW MATS, SILT DIKE ON PAVEMENT, ETC.) AS NECESSARY TO PREVENT RUNOFF FROM THE REPAIR AREAS.



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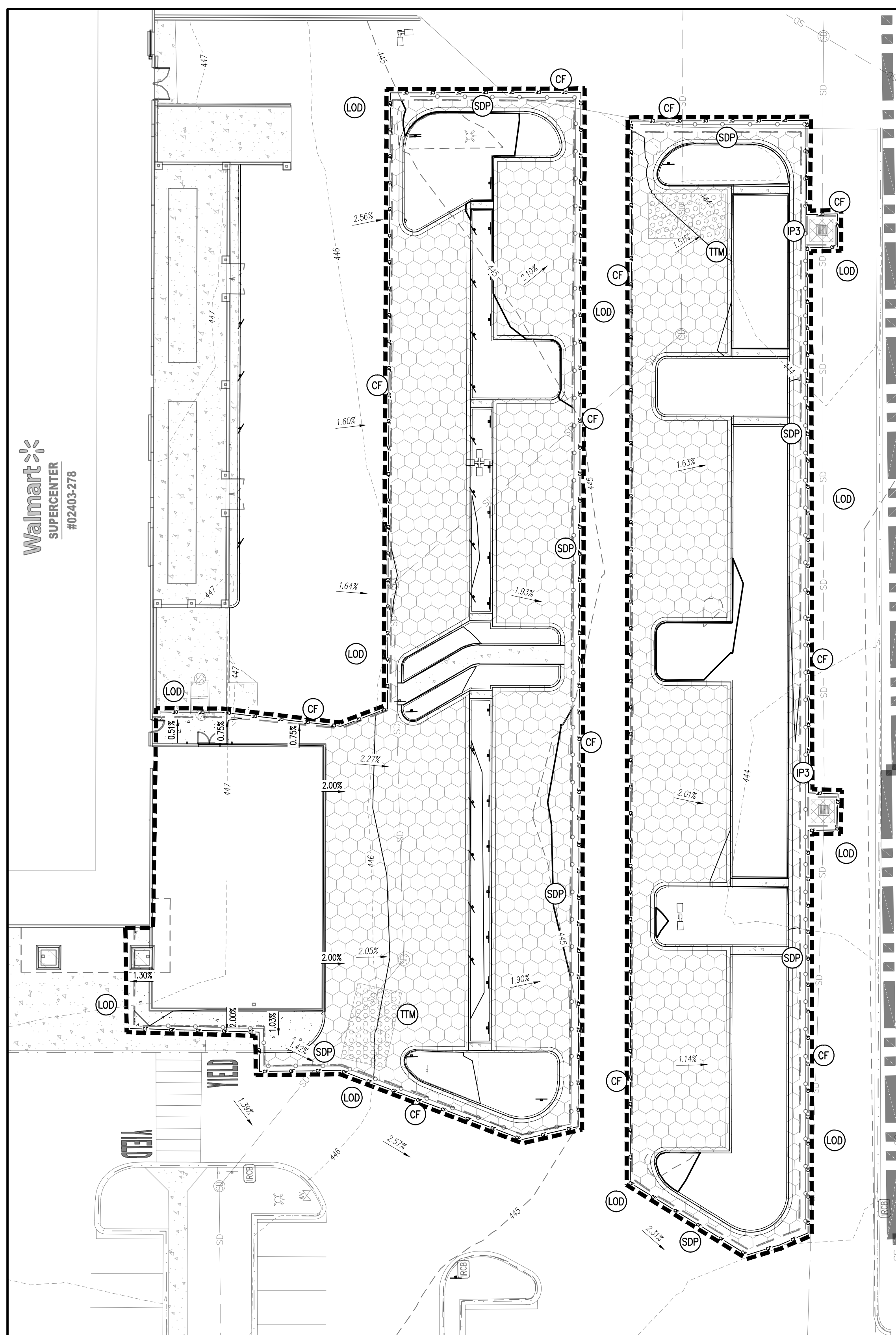
**Walmart SUPERCENTER #02403-278**  
310 31ST AVE SE  
PUYALLUP, WA 99002  
STORE NO: 02403-278  
JOB NUMBER: WDP002403-278 (PHOTO: PICKUP ENTICEMENT)

ISSUE BLOCK		
PR#	DATE	DESCRIPTION
PR#1	01/25/22	

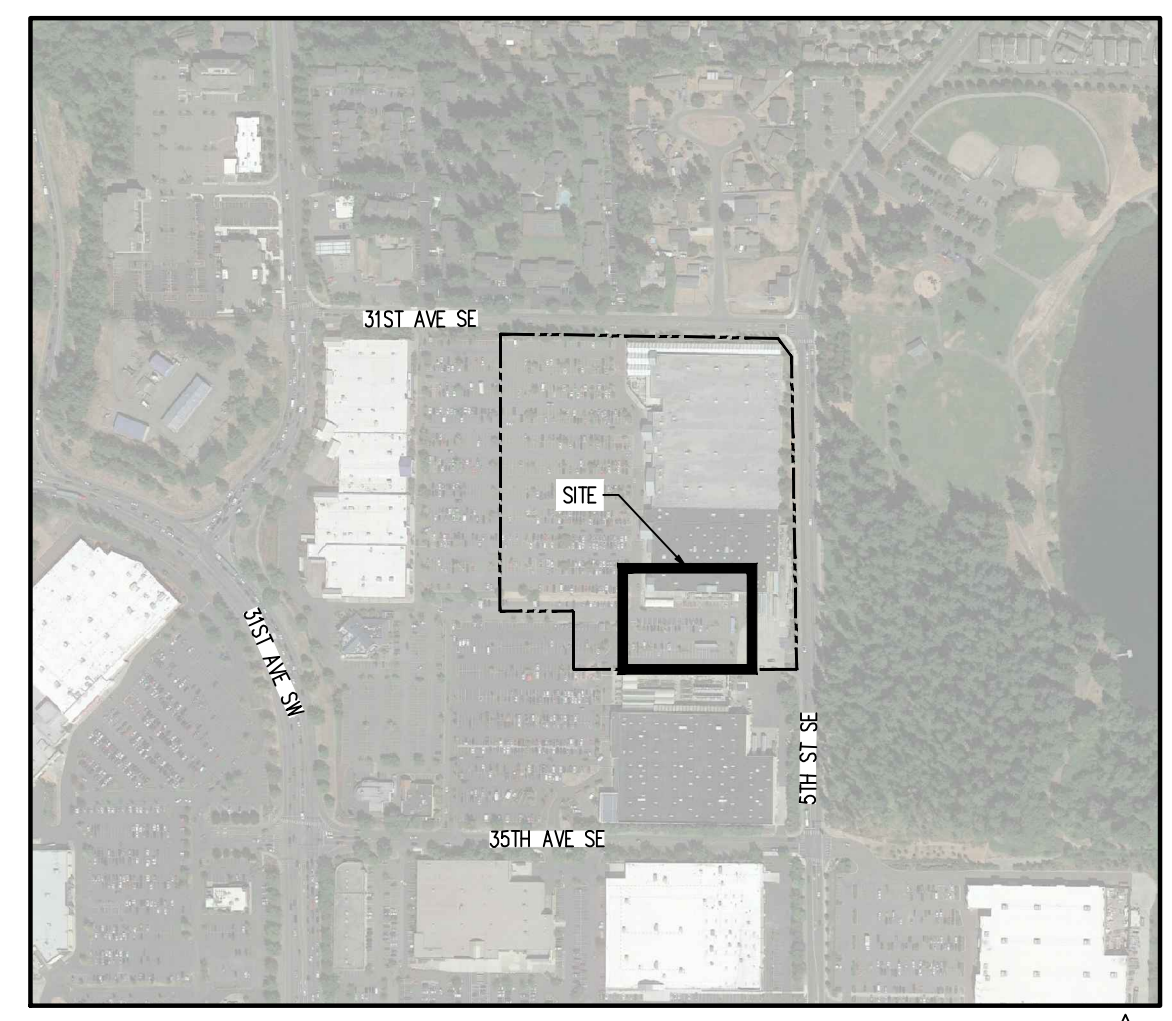
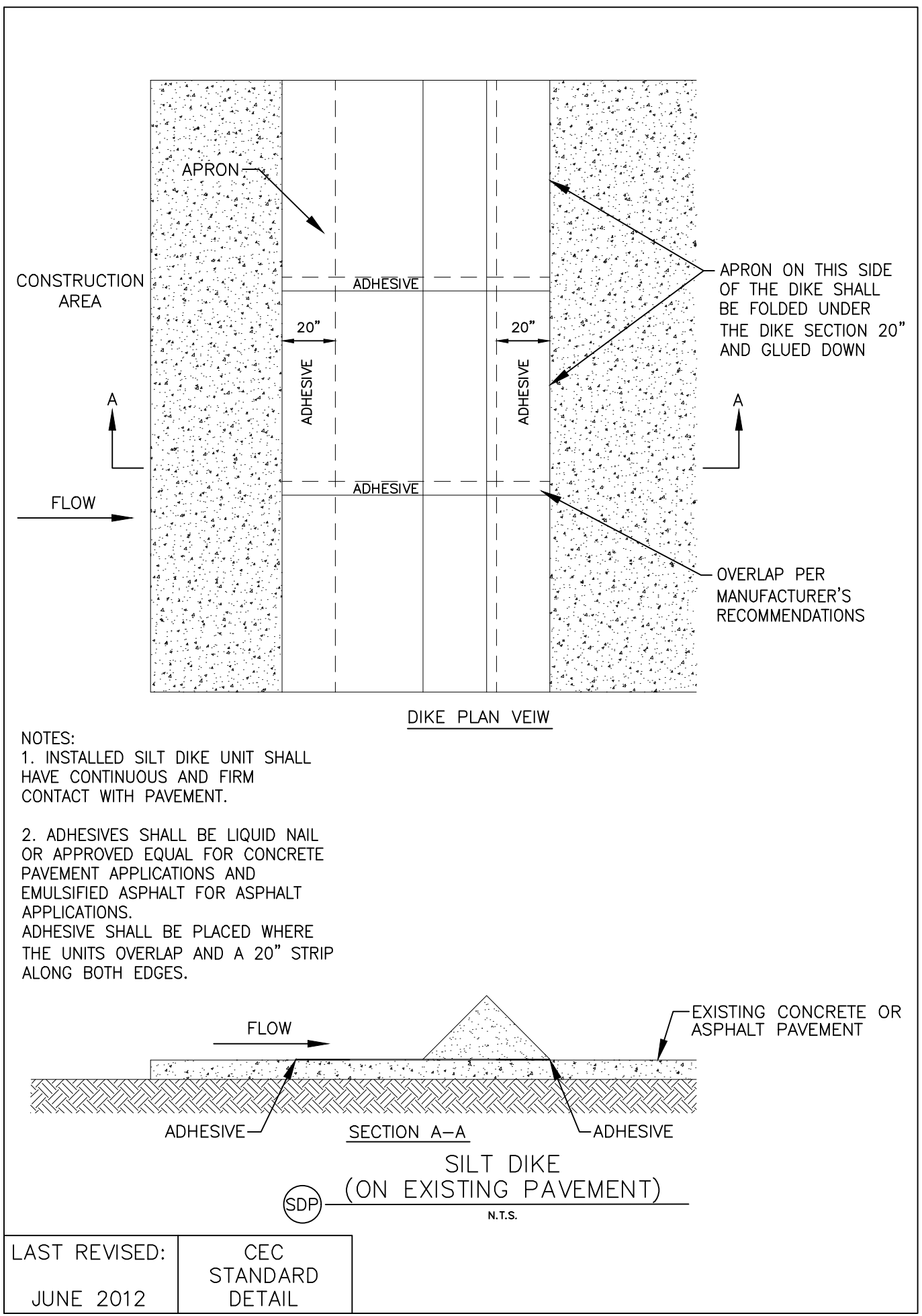
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PROTO CYCLE: -  
DOCUMENT DATE: 09/08/21

**EROSION & SEDIMENT CONTROL PLAN (INITIAL)**  
SHEET: CS5

show all existing utilities on Plans. [Civil Plans, CS6]



EROSION & SEDIMENT CONTROL PLAN  
SCALE: 1"=20'

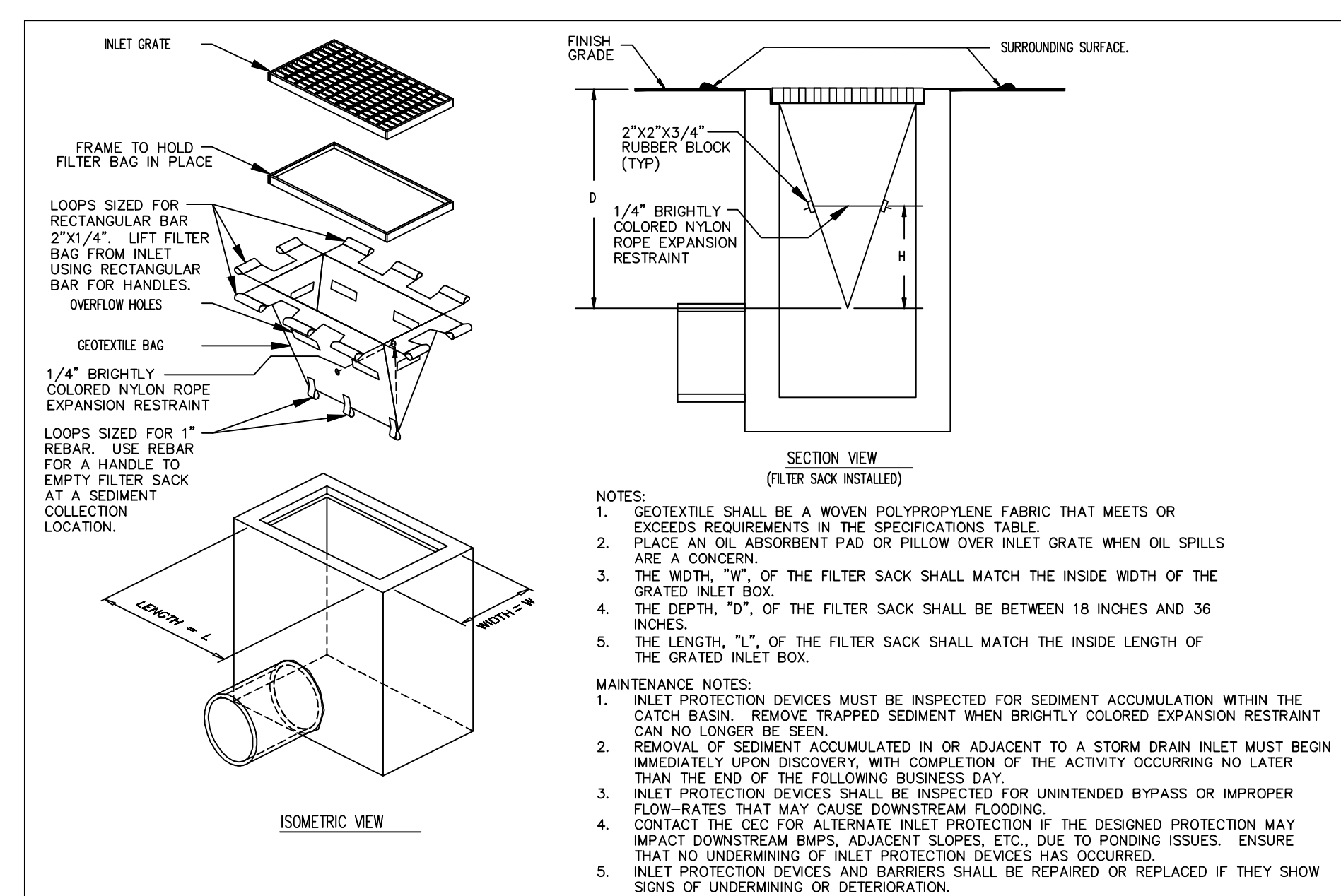


EROSION & SEDIMENT CONTROL LEGEND

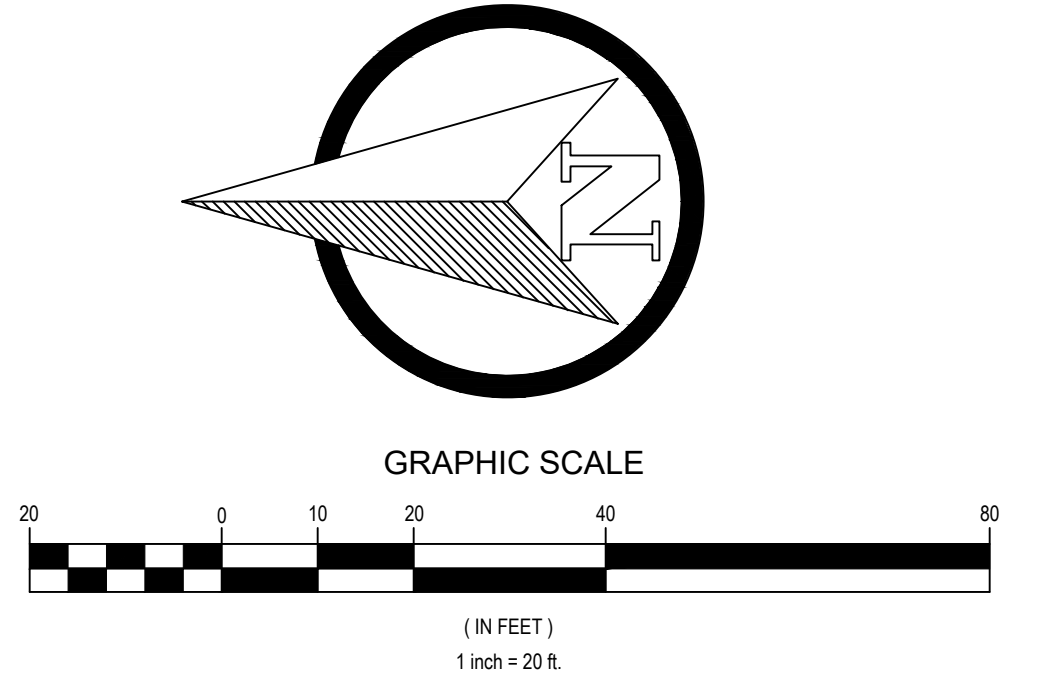
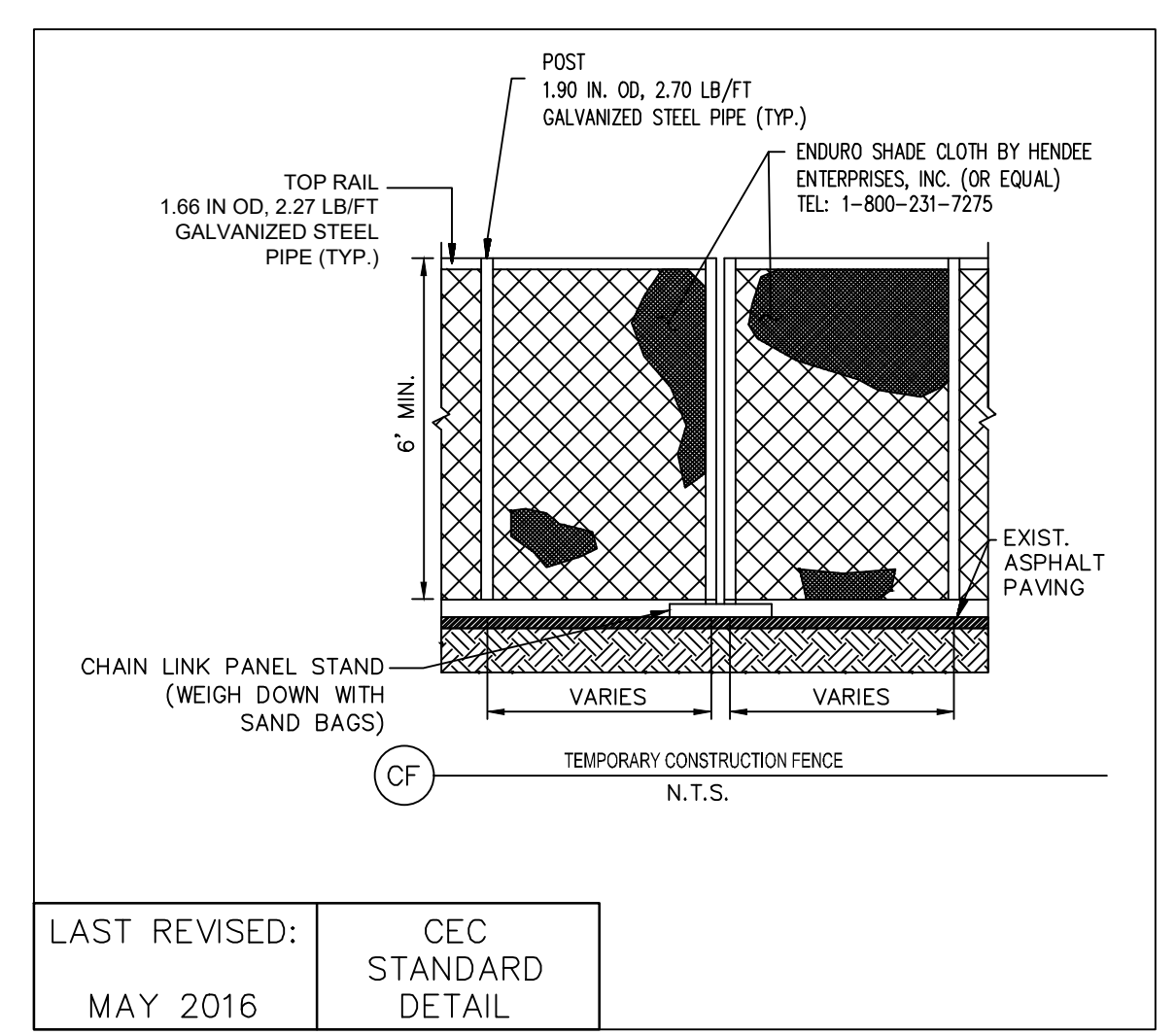
- LIMITS OF DISTURBANCE
- INLET PROTECTION
- SILT DIKE ON PAVEMENT
- CONSTRUCTION FENCE
- TEMPORARY TRACKOUT MAT
- PROPOSED ASPHALT PAVEMENT

LIMITS OF DISTURBANCE TABLE

	EXISTING	PROPOSED
TOTAL LOD = 34,640 SF / 0.7953 ACRES		
PERVIOUS AREA WITHIN LOD	1747 SF / 0.0401 ACRES	8,112 SF / 0.1862 ACRES
IMPERVIOUS AREA WITHIN LOD	32879 SF / 0.7548 ACRES	26,528 SF / 0.6091 ACRES



LOW TO MODERATE FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE			MODERATE TO HIGH FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE		
PROPERTIES	TEST METHOD	UNITS	PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS	GRAB TENSILE STRENGTH	ASTM D-4632	265 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %	GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4633	120 LBS	PUNCTURE	ASTM D-4633	120 LBS
MILION SERT	ASTM D-3706	600 PSI	MILION SERT	ASTM D-3706	400 PSI
TWAZZOD TEAR	ASTM D-4533	120 LBS	TWAZZOD TEAR	ASTM D-4533	45 LBS
UV RESISTANCE	ASTM D-4202	%	UV RESISTANCE	ASTM D-4202	40 %
APARENT OPENING SIZE	ASTM D-4751	40 US SIEVE	APARENT OPENING SIZE	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4461	61 GAL/MIN/50 FT	FLOW RATE	ASTM D-4461	300 GAL/MIN/50 FT
PERMITIVITY	ASTM D-4461	0.55 SEC -1	PERMITIVITY	ASTM D-4461	15 SEC -1



**Galloway**  
1926 Grand Oaks Blvd SE  
Puyallup, WA 98446  
360.835.1000  
www.galloway.com

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**Walmart**  
SUPERCENTER  
#02403-278

310 31ST AVE SE  
PUYALLUP, WA  
STORE NO: 02403-278  
JOB NUMBER: WDP0202403-278 PHOTO: PICKUP ENTINCMNT

ISSUE BLOCK

NO.	DESCRIPTION	DATE
1	PR#1	01/25/22

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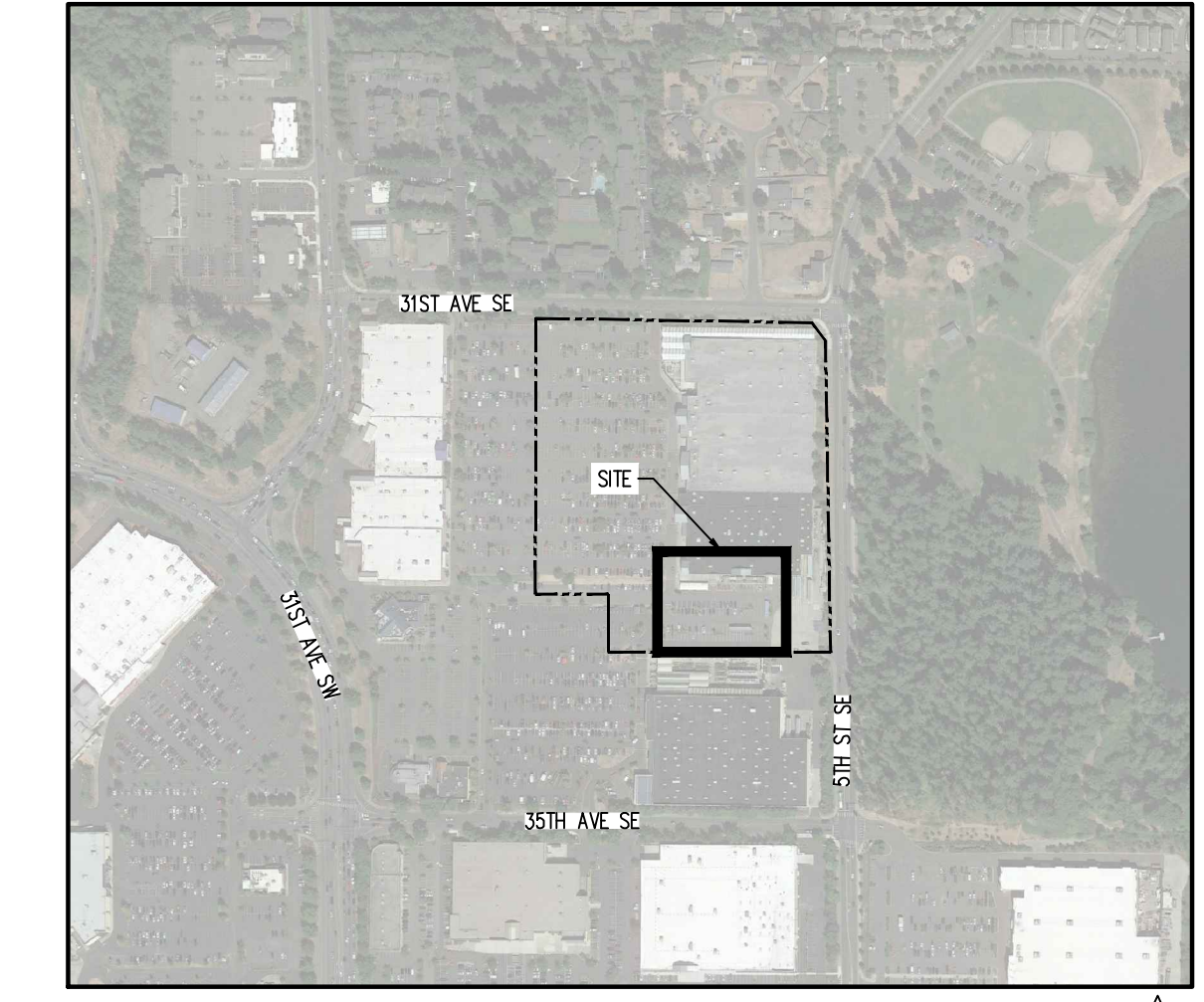
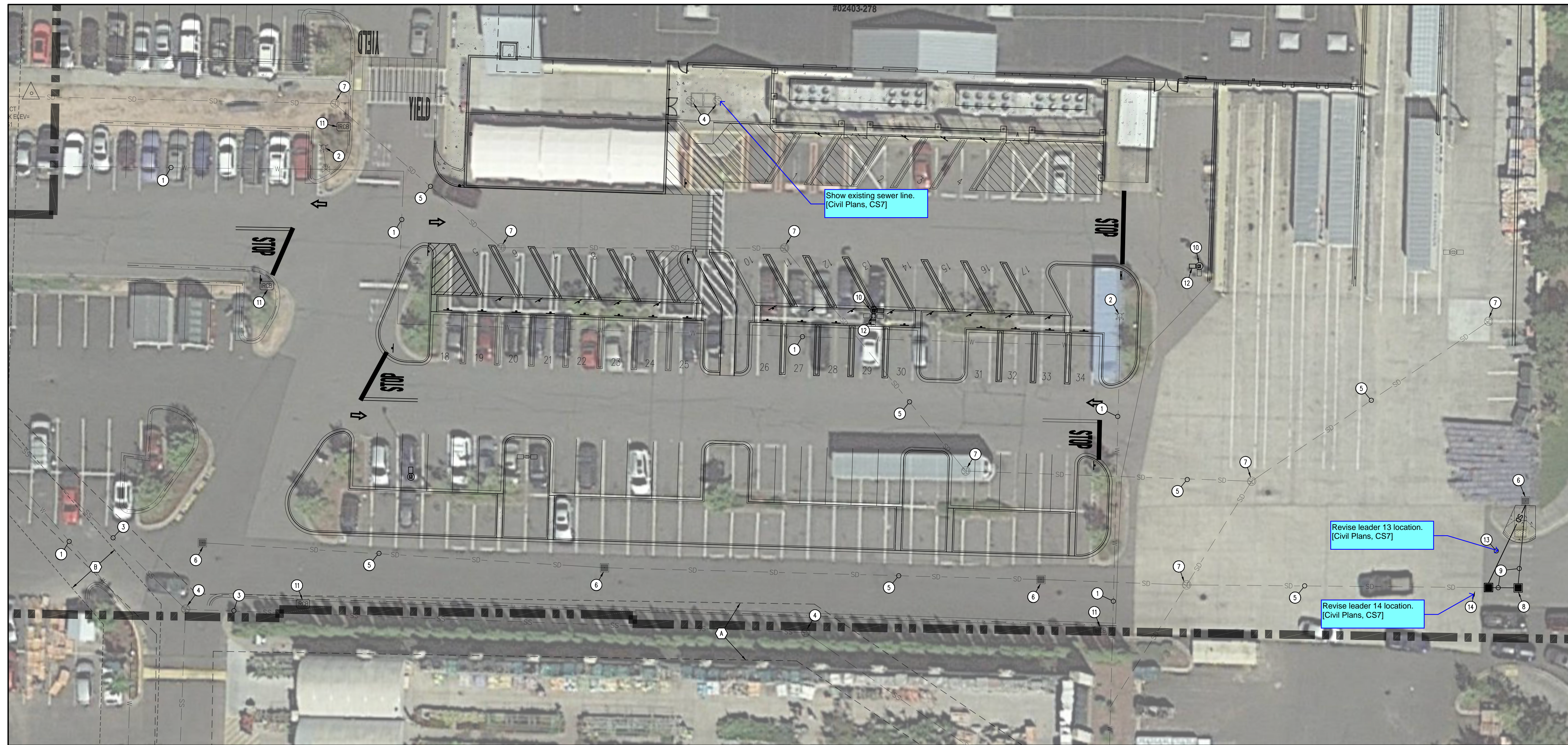
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**EROSION & SEDIMENT CONTROL PLAN (INTERIM/FINAL)**

SHEET: CS6



KEY MAP  
APPROX. 1" = 500'

**LEGEND**

---	EXISTING CURB AND GUTTER TO REMAIN
-X-	EXISTING FENCE/GAARDRAIL TO REMAIN
-E-	EXISTING EASEMENT
-SS-	EXISTING SANITARY SEWER LINE TO REMAIN
-UE-	EXISTING UNDERGROUND ELECTRIC LINE TO REMAIN
-W-	EXISTING WATER LINE TO REMAIN
-SD-	EXISTING STORM SEWER LINE TO REMAIN
-G-	EXISTING GAS LINE TO REMAIN
-C-	PROPOSED GAS LINE
---	EXISTING CONCRETE PAVING TO REMAIN
---	PROPOSED CONCRETE PAVING/SIDEWALK
---	EXISTING ASPHALT PAVING TO REMAIN
---	EXISTING BOLLARD TO REMAIN
---	EXISTING STORM INLET TO REMAIN
---	EXISTING FIRE HYDRANT TO REMAIN
---	EXISTING SANITARY SEWER CLEANOUT TO REMAIN
---	EXISTING SANITARY SEWER MANHOLE TO REMAIN
---	EXISTING WATER VALVE TO REMAIN
---	EXISTING WALMART BUILDING TO REMAIN
---	EXISTING LIGHT POLE TO REMAIN
---	PROPOSED STORM SEWER CLEANOUT
SD	PROPOSED STORM LINE

**SCHEDULE**

1	EXISTING WATER LINE TO REMAIN.
2	EXISTING FIRE HYDRANT TO REMAIN.
3	EXISTING SANITARY SEWER LINE TO REMAIN.
4	EXISTING SANITARY SEWER MANHOLE TO REMAIN.
5	EXISTING STORM SEWER LINE TO REMAIN.
6	EXISTING STORM INLET TO REMAIN.
7	EXISTING STORM MANHOLE TO REMAIN.
8	EXISTING STORM INLET TO BE REMOVED.
9	EXISTING STORM LINE TO BE REMOVED.
10	EXISTING SITE LIGHT TO BE REMOVED.
11	EXISTING IRRIGATION CONTROL BOX TO REMAIN.
12	PROPOSED SITE LIGHT.
13	PROPOSED 12" STORM LINE.
14	PROPOSED CB TYPE 1 STORM INLET.

**EASEMENT SCHEDULE**

A	20' SANITARY EASEMENT (RECEPTION NO. 9502281042)
B	20' WATERLINE EASEMENT (RECEPTION NO. 9610150317)

NOTE: LENGTHS OF STORM/SANITARY SEWER ARE THE HORIZONTAL DISTANCES FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE UNLESS OTHERWISE NOTED. THEREFORE, LENGTHS SHOWN ARE APPROXIMATE AND COULD VARY DUE TO VERTICAL ALIGNMENT AND STRUCTURE WIDTHS.

SURVEYOR TO OBTAIN AUTOCAD FILE FROM ENGINEER AND VERIFY ALL HORIZONTAL CONTROL DIMENSIONING PRIOR TO CONSTRUCTION STAKING. SURVEYOR MUST VERIFY ALL BENCHMARK, BASIS OF BEARING AND DATUM INFORMATION TO ENSURE IMPROVEMENTS WILL BE AT THE SAME HORIZONTAL AND VERTICAL LOCATIONS SHOWN ON THE DESIGN CONSTRUCTION DRAWINGS. PRIOR TO CONSTRUCTION STAKING ANY DISCREPANCY MUST BE REPORTED TO OWNER AND ENGINEER PRIOR TO CONTINUATION OF ANY FURTHER STAKING OR CONSTRUCTION WORK.

CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL INFORMATION FOR FINAL ACCEPTANCE OF WORK FOR ANY LOCAL, STATE OR FEDERAL AGENCY, UTILITY DISTRICT OR ANY OTHER AGENCY OR DISTRICT HAVING APPROVAL AUTHORITY OVER WORK. THIS INFORMATION MAY INCLUDE, BUT IS NOT LIMITED TO, AS-BUILT PLANS, CERTIFICATIONS, INSPECTIONS AND REPORTS.

NOTE: CONTRACTOR MUST COORDINATE WORK WITH UTILITY COMPANY AND CITY PRIOR TO BEGINNING WORK AND IS RESPONSIBLE FOR ALL MATERIALS, LABOR, REPAIRS, ETC. TO COMPLETE WORK AND RESTORE AREA TO SAME STATE PRIOR TO STARTING WORK.

NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.

UNLESS OTHERWISE NOTED, CONTRACTOR TO PROTECT LANDSCAPING IN PLACE AND REPLACE TO MATCH IF DISTURBED. CONTRACTOR TO CAP AND REINSTALL IRRIGATION AS NECESSARY TO MAINTAIN IRRIGATION TO EXISTING LANDSCAPING.

CONTRACTOR RESPONSIBLE FOR AS-BUILT DRAWINGS, TESTS, REPORTS AND/OR ANY OTHER CERTIFICATES OR INFORMATION AS REQUIRED FOR ACCEPTANCE OF WORK FROM CITY, UTILITY DISTRICTS OR ANY OTHER GOVERNING AGENCY.

**BENCHMARK**  
SITE BENCHMARK: ELEVATION = 445.61' NAVD88, SET MAG NAIL

**CAUTION - NOTICE TO CONTRACTOR**

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- WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POT-HOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.

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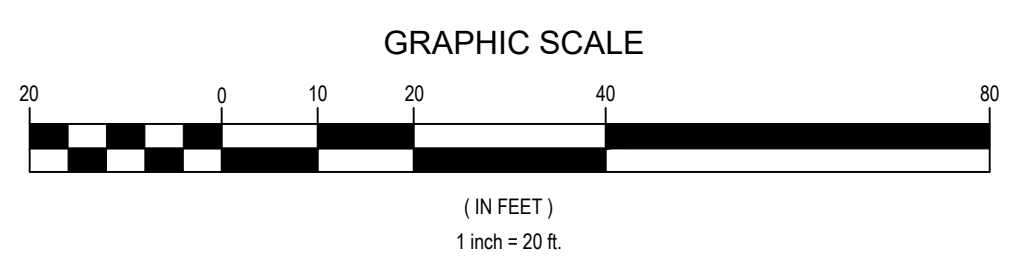
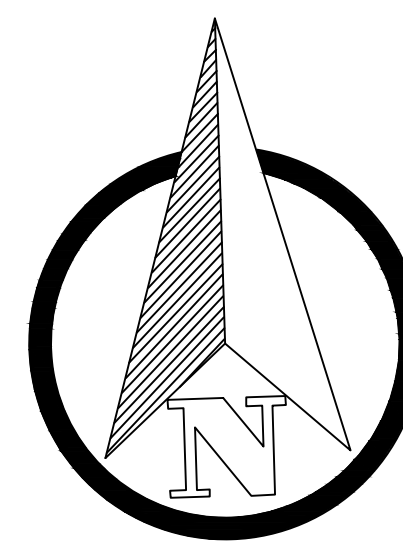
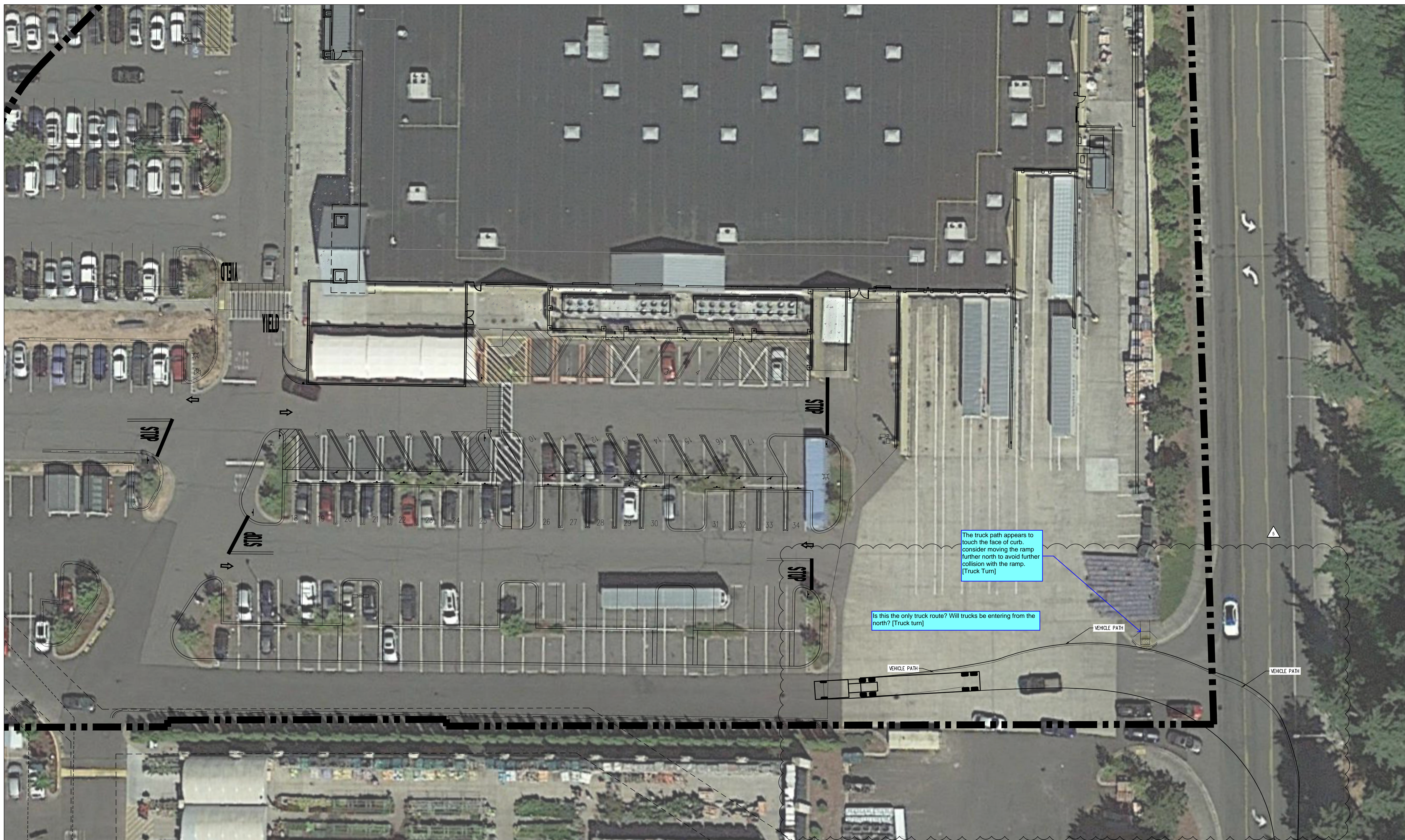


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STORE NO. 09403-278  
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△	PR#1	01/25/22
△	CCD#1	09/01/22

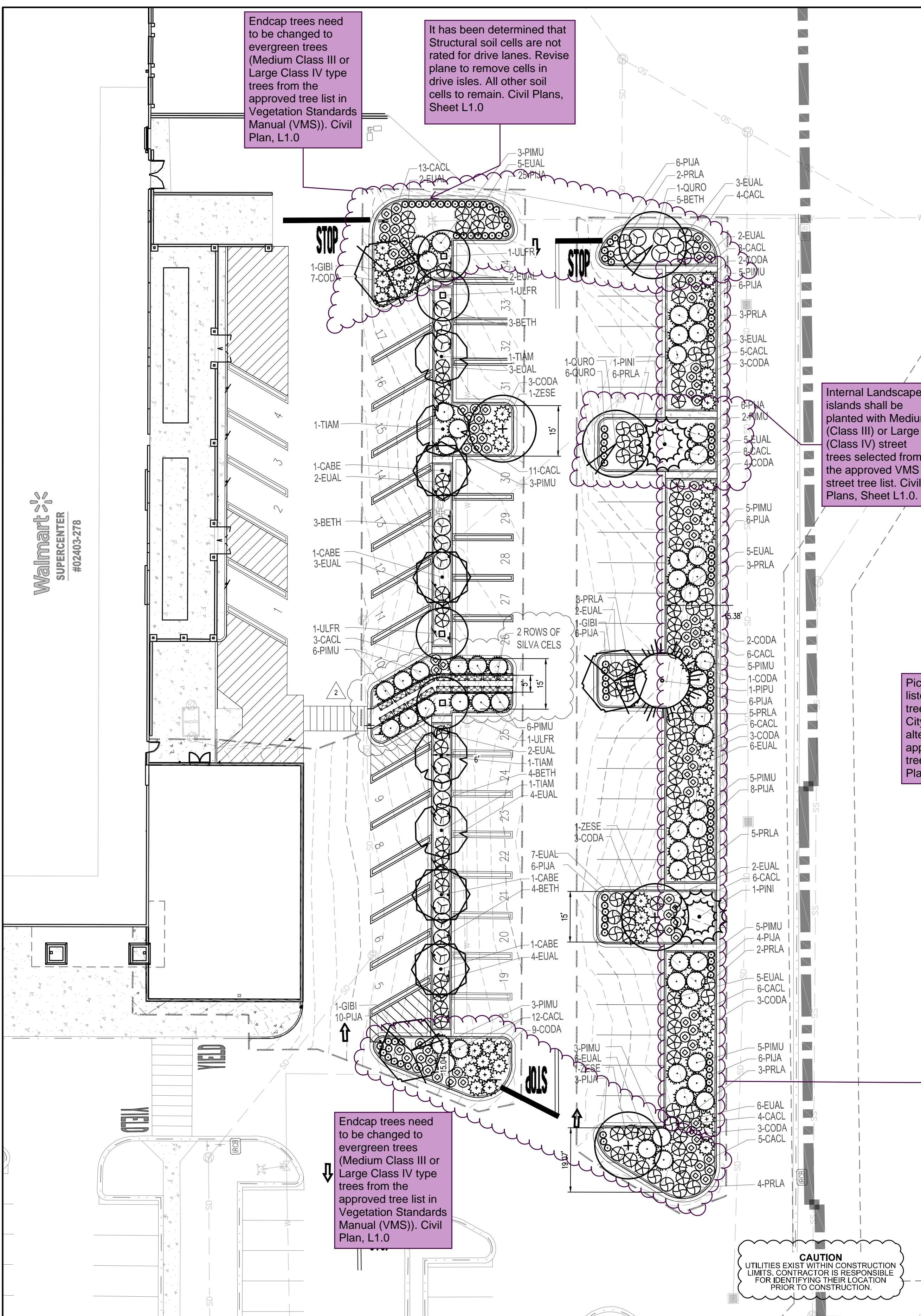
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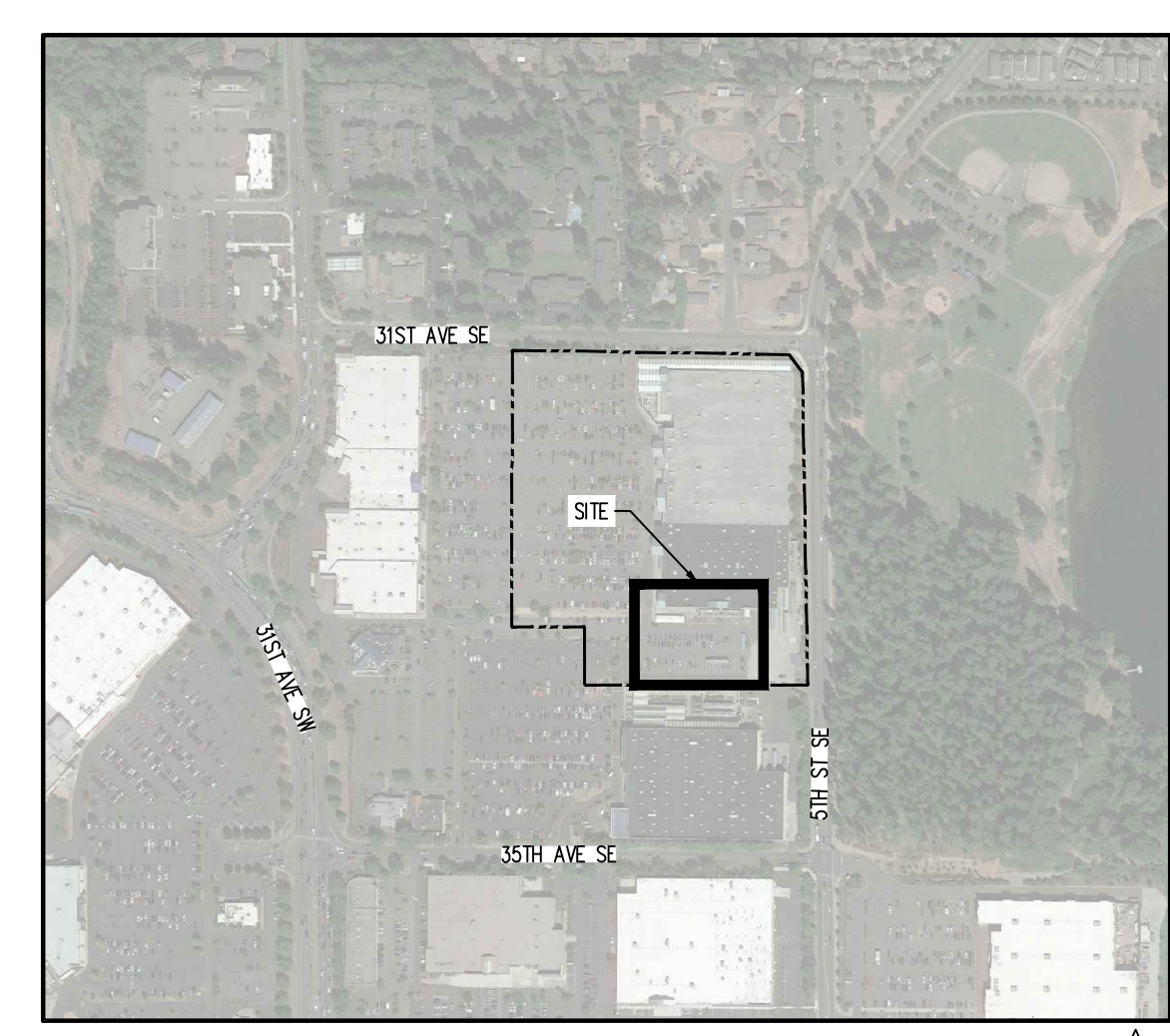


**PLANTING LEGEND**

QTY	LEGEND	ABBREV.	BOTANIC NAME	COMMON NAME	PLANTING SIZE (MINIMUM)	MATURE SIZE (V,L,L,M,H)	WATER USE	MATURE COVERAGE (SF)	SUN/SHADE
<b>DECIDUOUS TREES</b>									
4	CABE		CARPINUS BETULUS 'FASTIGIATA'	PYRAMIDAL EUROPEAN HORNBEAM	2" CAL. B&B	35'X25'	M		SUN
3	GIBI		GINKGO BILOBA 'AUTUMN GOLD'	AUTUMN GOLD GINKGO	2" CAL. B&B	40'X30'	M		SUN
4	QURO		QUERCUS ROBUR 'FASTIGIATA'	COLUMNAR ENGLISH OAK	2" CAL. B&B	40'X20'	M		SUN
4	TIAM		TILIA AMERICANA 'BOULEVARD'	AMERICAN LINDEN	2" CAL. B&B	50'X25'	L/M		SUN
4	ULFR		ULMUS 'FRONTIER'	FRONTIER ELM	2" CAL. B&B	40'X30'	M		SUN
3	ZESE		ZELKOVA SERRATA 'GREEN VASE'	GREEN VASE ZELKOVA	2" CAL. B&B	40'X30'	M		SUN/PART SHADE
<b>EVERGREEN TREES</b>									
2	PINI		PINUS NIGRA	AUSTRIAN PINE	6" HEIGHT B&B	50'X20'	L	630	SUN/PART SHADE
1	PIPU		PICEA PUNGENS	COLORADO BLUE SPRUCE	6" HEIGHT B&B	60'X25'	L	491	SUN/PART SHADE
<b>DECIDUOUS SHRUBS</b>									
19	BETH		Berberis thunbergii 'atropurpurea nana'	CRIMSON PYGMY BARBERRY	#5 CONT. 18-24"	4'X4'	M	247	SUN/PART SHADE
92	CACL		Caryopteris x clandonensis	BLUE MIST SPIREA	#5 CONT. 18-24"	3'X3'	VL	920	SUN
76	EDAL		Euonymus alatus 'compacta'	DWARF BURNING BUSH	#5 CONT. 18-24"	5'X4'	L/M	988	SUN/PART SHADE
39	PRLA		Prunus laurocerasus 'nana'	DWARF ENGLISH LAUREL	#5 CONT. 18-24"	5'X5'	VL	780	SHADE
<b>EVERGREEN SHRUBS</b>									
43	CODA		Cotoneaster dammeri 'coral beauty'	CORAL BEAUTY COTONEASTER	#5 CONT. 18-24"	1'X5'	M	860	SUN/PART SHADE
56	PIMU		Pinus mugo 'mops'	MOPS MUGO PINE	#5 CONT. 18-24"	5'X6'	L	1960	SUN
104	PIJA		Pieris japonica 'mountain fire'	MOUNTAIN FIRE PIERIS	#5 CONT. 18-24"	2'X2'	M	520	SUN
<b>TOTAL MATURE COVERAGE:</b> 7,422 SF									
<b>MISC</b>									
8,107 SF			ROCK COBBLE MULCH	2"-4" ROCK COBBLE MULCH WITH WOOD MULCH RING AROUND ALL PLANT MATERIAL, SEE PLANTING NOTES & DETAILS	MULCH		N/A		
AS NEEDED			WOOD MULCH	DARK BROWN SHREDDED HARDWOOD MULCH	MULCH		N/A		

**Tree Removal / Replacement Chart**

Existing trees to be removed:	18
Proposed Trees:	22



KEY MAP  
APPROX. 1" = 500'

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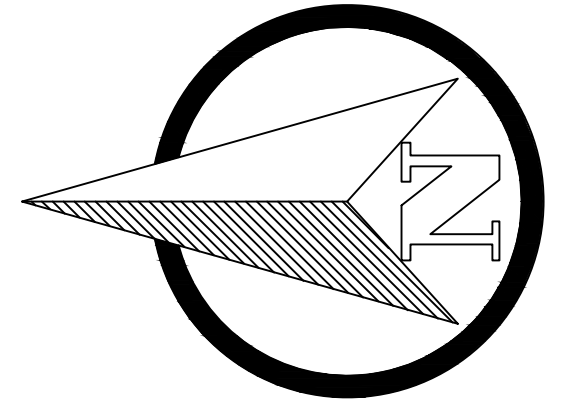
LANDSCAPE PLAN  
APPROX. 1" = 20'

**LANDSCAPE CALCULATION TABLE**

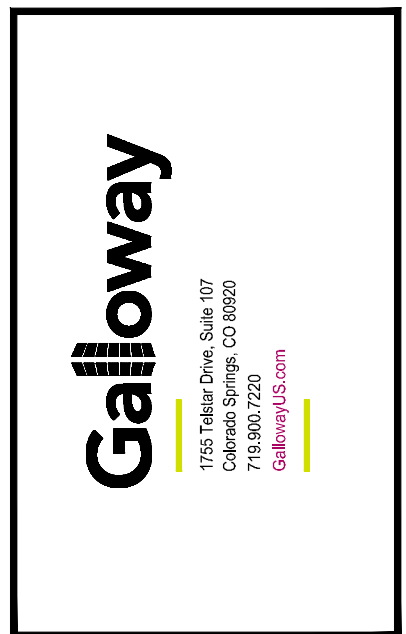
REQUIREMENT	REQUIRED	PROVIDED
PERIMETER LANDSCAPE ISLANDS	12' WIDE 200 SF 1 TREE	12' WIDE 200 SF 1 TREE
INTERNAL LANDSCAPE ISLANDS	15' WIDE 500 SF 2 TREES	15' WIDE 500 SF 2 TREES
HEAD TO HEAD PARKING LANDSCAPE	5' WIDE 1 TREE PER 20 LF	5' WIDE 12 TREES FOR 237 LF
COVERAGE	90% AFTER 3 YEARS	90% OF 8,246 SF = 7,422 SF OF COVERAGE, SEE PLANTING LEGEND

**UTILITY NOTES**

- THE LANDSCAPE CONTRACTOR IS REQUIRED TO CONTACT THE COUNTY PUBLIC WORKS DEPARTMENT AND ANY OTHER PUBLIC OR PRIVATE AGENCY NECESSARY FOR UTILITY LOCATION PRIOR TO ANY CONSTRUCTION.
- THIS DRAWING IS A PART OF A COMPLETE SET OF BID DOCUMENTS, SPECIFICATIONS, ADDITIONAL DRAWINGS, AND EXHIBITS. UNDER NO CIRCUMSTANCES SHOULD THESE PLANS BE USED FOR CONSTRUCTION PURPOSES WITHOUT EXAMINING ACTUAL LOCATIONS OF UTILITIES ON-SITE, AND REVIEWING ALL RELATED DOCUMENTS.
- THE LOCATION OF THE ALL UNDERGROUND UTILITIES ARE LOCATED ON THE ENGINEERING DRAWINGS FOR THIS PROJECT. THE MOST CURRENT REVISION IS HERE IN MADE PART OF THIS DOCUMENT. UNDERGROUND UTILITIES EXIST THROUGHOUT THIS SITE AND MUST BE LOCATED PRIOR TO ANY CONSTRUCTION ACTIVITY. WHERE UNDERGROUND UTILITIES EXIST, FIELD ADJUSTMENT MAY BE NECESSARY AND MUST BE APPROVED BY A REPRESENTATIVE OF THE OWNER. NEITHER THE OWNER NOR THE LANDSCAPE ARCHITECT ASSUMES ANY RESPONSIBILITY WHATSOEVER, IN RESPECT TO THE CONTRACTORS ACCURACY IN LOCATING THE INDICATED PLANT MATERIAL, AND UNDER NO CIRCUMSTANCES SHOULD THESE PLANS BE USED WITHOUT REFERENCING THE ABOVE MENTIONED DOCUMENTS.



GRAPHIC SCALE  
(IN FEET)  
1 inch = 20 ft.



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#02403-278

310 31ST AVE SE  
PUYALLUP, WA  
STORE NO: 02403-278  
JOB NUMBER: WDP0202403-278 PHOTO: PICKUP ENTINCMNT

**ISSUE BLOCK**

PR#1	01/25/22
PR#2	05/23/22

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PROTO CYCLE: -  
DOCUMENT DATE: 09/08/21

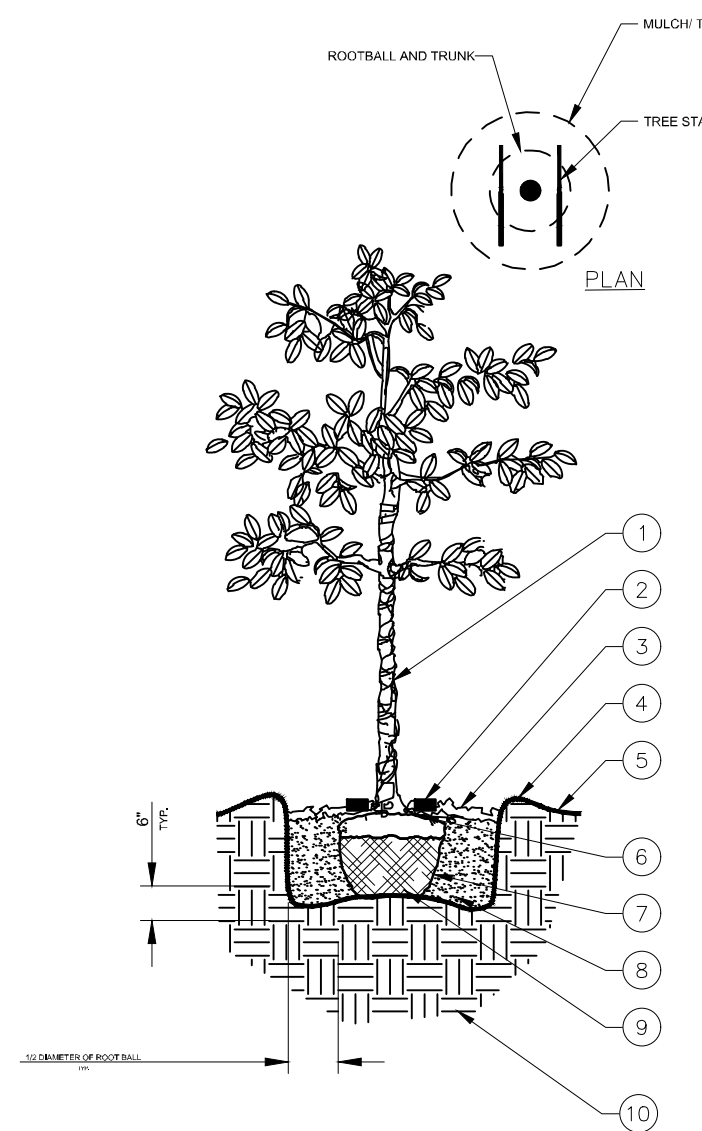
**LANDSCAPE PLAN**

SHEET: L1.0

PLANTING NOTES

GENERAL

- 1. ALL WORK SHALL CONFORM TO ALL APPLICABLE STATE AND LOCAL CODES, STANDARDS, AND SPECIFICATIONS.
2. ALL PLANT MATERIAL QUANTITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN TAKEOFFS AND QUANTITY CALCULATIONS FOR COMPLETE COVERAGE OF ALL PLANTING BEDS AT THE SPACING SHOWN...



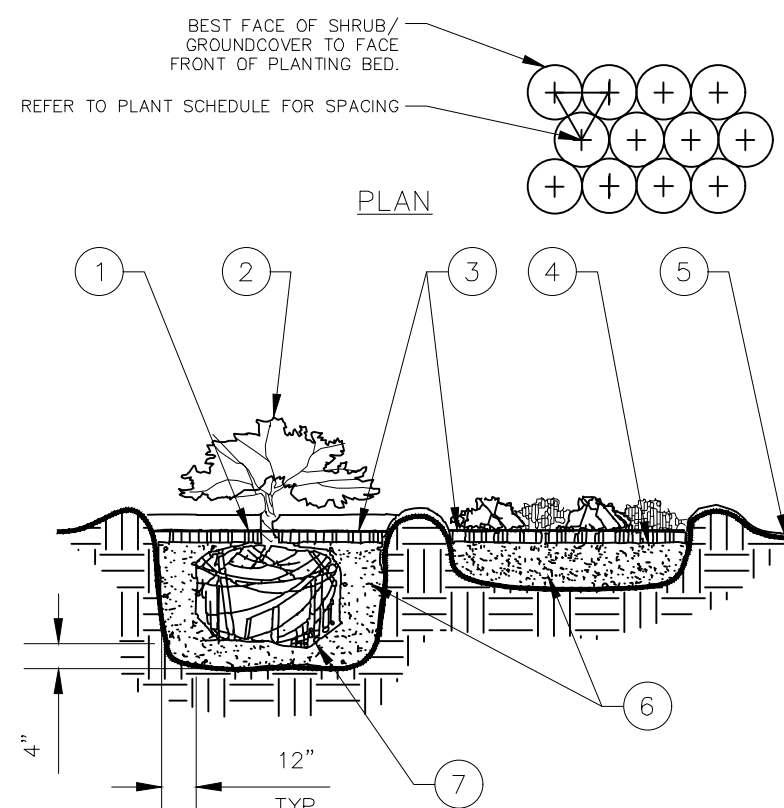
- 1. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.
2. REMOVE BURGLAR WIRE AND STRAPS ANYTHING THAT COULD GRIEVE TREE OR RESTRICT ROOT GROWTH ON UPPER 10' ROOTBALL.
3. SEE LANDSCAPE NOTES FOR THE TYPE OF MULCH MATERIAL TO USE.
4. PRUNE TREE AS DIRECTED BY LANDSCAPE ARCHITECT.

FINISH GRADING AND SOIL PREPARATION

- 1. CONTRACTOR SHALL CONTRACT AND OBTAIN FINISH GRADES AS RECOMMENDED BY THE GEOTECHNICAL REPORT. ALL LANDSCAPE AREAS SHALL HAVE POSITIVE DRAINAGE AWAY FROM STRUCTURES AT THE MINIMUM SLOPE SPECIFIED IN THE REPORT...
2. AFTER FINISH GRADES HAVE BEEN ESTABLISHED, CONTRACTOR SHALL HAVE SOIL SAMPLES TESTED BY AN ESTABLISHED SOIL TESTING LABORATORY FOR THE FOLLOWING: GENERAL SOIL FERTILITY, PH, ORGANIC MATTER CONTENT, SALTY (CEC), LIME, SODIUM ADSORPTION RATIO (SAR) AND BORON CONTENT...

PLANTING

- 17. REFER TO SPECIFICATIONS FOR INFORMATION NEEDED FOR IMPLEMENTATION OF PLANTING PLANS.
18. ALL PLANT MATERIAL SHALL BE CONTAINER GROWN OR BALLED AND BUR LAPPED AS INDICATED IN THE PLANT LIST.
19. ALL DECIDUOUS TREES SHALL HAVE A STRAIGHT TRUNK WITH FULL, WELL-SHAPED HEADS ALL EVERGREENS SHALL HAVE A STRAIGHT TRUNK UNLESS OTHERWISE SPECIFIED. TREES WITH CENTRAL LEADERS WILL NOT BE ACCEPTED IF LEADER IS DAMAGED OR REMOVED. PRUNE ALL DAMAGED TWIGS AFTER PLANTING.
20. ALL PLANTS WITHIN A SPECIES SHALL HAVE SIMILAR SIZE AND SHALL BE HEALTHY, VIGOROUS, AND A FORM TYPICAL FOR THE SPECIES...



- 1. TOP OF SHRUB ROOTBALLS TO BE PLANTED 1"-2" HIGH WITH SOIL MOUNDING UP TO THE TOP OF ROOTBALL.
2. WHEN USED IN MASSES- PRUNE ALL SHRUBS TO ACHIEVE A UNIFORM MASS HEIGHT.
3. 4" MINIMUM OF HARDWOOD MULCH COMPACTED OR AS SPECIFIED.
4. EXCAVATE ENTIRE BED SPECIFIED FOR GROUNDCOVER BED.
5. 4" MINIMUM OF TOPSOIL TO BRING TO FINISHED GRADE (SEE GRADING PLAN).
6. PREPARED PLANTING SOIL AS SPECIFIED. NOTE: WHEN GROUND-COVERS AND SHRUBS USED IN MASSES- ENTIRE BED TO BE AMENDED WITH PLANTING MIX AS SPECIFIED IN THE PLANTING SPECIFICATION.
7. SCARIFY ROOTBALL SIDES AND BOTTOM.

MULCHING

- 37. AFTER ALL PLANTING IS COMPLETE, THE CONTRACTOR SHALL INSTALL A MINIMUM 4" THICK LAYER OF MULCH AS SPECIFIED IN THE PLANTING LEGEND. INSTALL A 4" THICK RING OF SHREDDED HARDWOOD MULCH AROUND ALL PLANT MATERIAL IN ROCK MULCH BEDS WHERE LANDSCAPING IS SHOWN ON THE PLANS. WOOD MULCH RINGS SHALL BE EQUAL TO THE DIAMETER OF THE CONTAINER OR EQUAL TO THE SPREAD OF THE PLANT, WHICHEVER IS GREATER. TREE WOOD MULCH RING SIZE SHALL BE INDUSTRY STANDARD WIDTH.
38. ALL MULCH SHALL BE HARVESTED IN A SUSTAINABLE MANNER FROM A LOCAL SOURCE.
39. INSTALL WEED BARRIER FABRIC UNDER ALL ROCK MULCH SHRUB BEDS AND PARKING ISLANDS AS SPECIFIED ON THE PLANS ONLY. NO LANDSCAPE FABRIC SHALL BE USED IN WOOD MULCH AREAS. NO PLASTIC WEED BARRIERS SHALL BE SPECIFIED.
40. ABSOLUTELY NO EXPOSED GROUND SHALL BE LEFT SHOWING ANYWHERE ON THE PROJECT AFTER MULCH HAS BEEN INSTALLED.

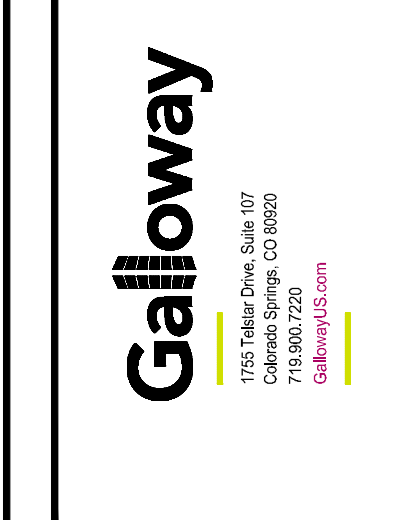
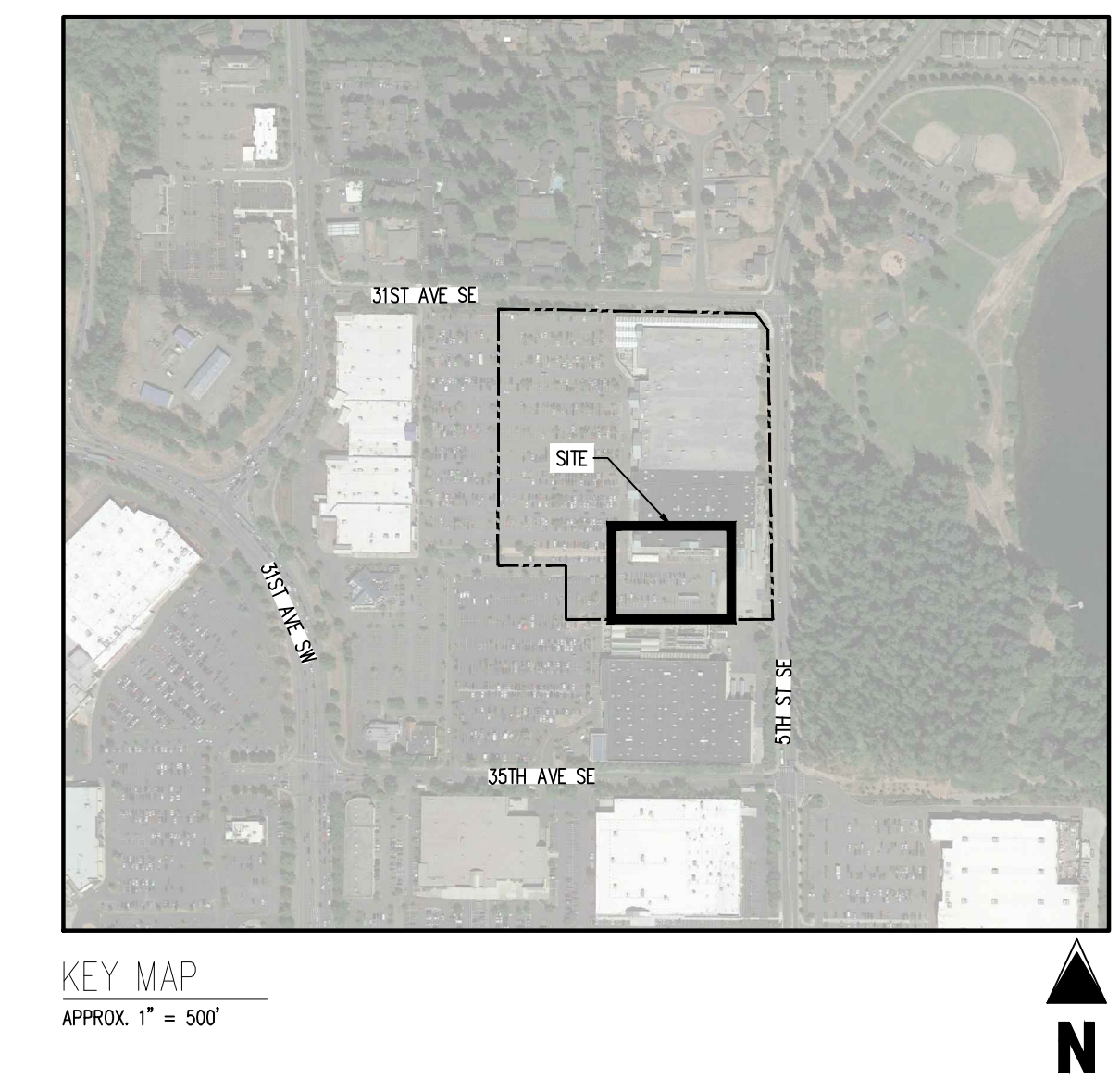
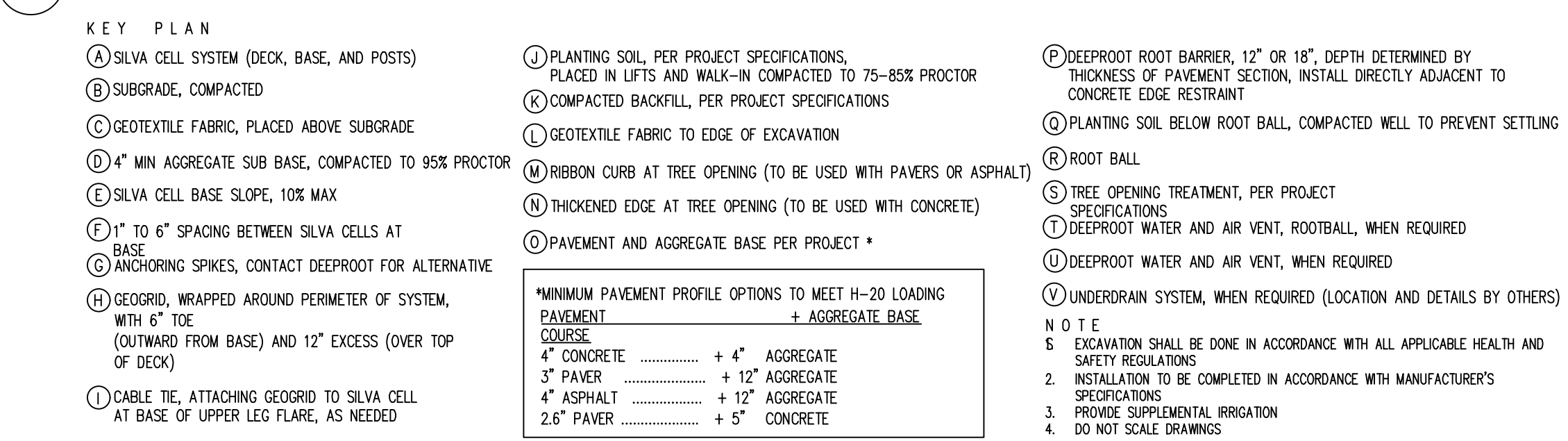
TREE PROTECTION NOTES:

- 1. USE CITY OF PUYALLUP, WA TREE PROTECTION NOTES. TREE PROTECTION NOTES BELOW SHALL BE USED FOR FURTHER INTEGRATION.
2. 'PROTECTED ZONE' FOR EXISTING TREES BEFORE BEGINNING ANY DEMOLITION OR CONSTRUCTION OPERATIONS: THE CONTRACTOR SHALL INSTALL TEMPORARY FENCING AROUND ALL EXISTING TREES WITHIN THE CONSTRUCTION ZONE THAT ARE TO BE SAVED. THE FENCE SHALL BE INSTALLED NO CLOSER TO THE TREE THAN THE EDGE OF THE TREE'S PROTECTED ZONE...
3. TEMPORARY MULCH TO ALLEVIATE SOIL COMPACTION IN ANTICIPATED AREAS OF HIGH CONSTRUCTION TRAFFIC AND ONLY WHERE FENCING CANNOT BE SET FIVE FEET OUTSIDE OF THE DRIPLINE...
4. NECESSARY WORK: WHEN IT BECOMES NECESSARY TO ENTER THE 'PROTECTED ZONE', SUCH AS FOR FINE GRADING, IRRIGATION INSTALLATION, AND PLANTING OPERATIONS, THE CONTRACTOR SHALL STRICTLY ADHERE TO THE FOLLOWING RULES:
A. EVERY EFFORT SHALL BE MADE TO PRESERVE THE EXISTING GRADE AROUND PROTECTED TREES IN AS WIDE AN AREA AS POSSIBLE.

1 TREE PLANTING DETAIL (14" OR GREATER) SCALE: NOT TO SCALE

2 "TREE FROG" TREE STAKING SCALE: NOT TO SCALE

4 SILVA CELL SYSTEM 2X NOT TO SCALE



STIPULATION FOR REUSE: THIS DRAWING HAS BEEN REUSED FOR THE PROJECT AT THE LOCATION AND DATE SHOWN ON THIS DRAWING. ANY REUSE OF THIS DRAWING FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER IS PROHIBITED.



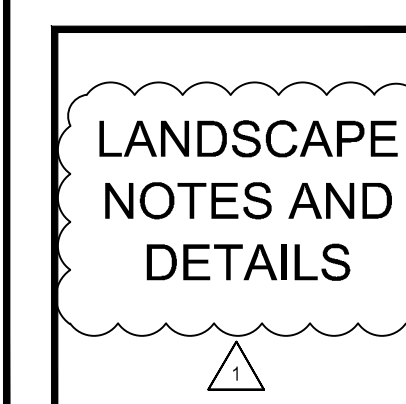
Walmart logo and address: 310 31ST AVE SE, PUYALLUP, WA. STORE NO: 09403-978. JOB NUMBER: WDP020403-23. PHOTO: PICKUP. ENTICEMENT.

ISSUE BLOCK table with columns for issue number, description, and date. Includes entries for PR#1 (01/25/22) and PR#2 (05/23/22).

CHECKED BY: KES
DRAWN BY: EDN
PROTO CYCLE: -
DOCUMENT DATE: 09/08/21

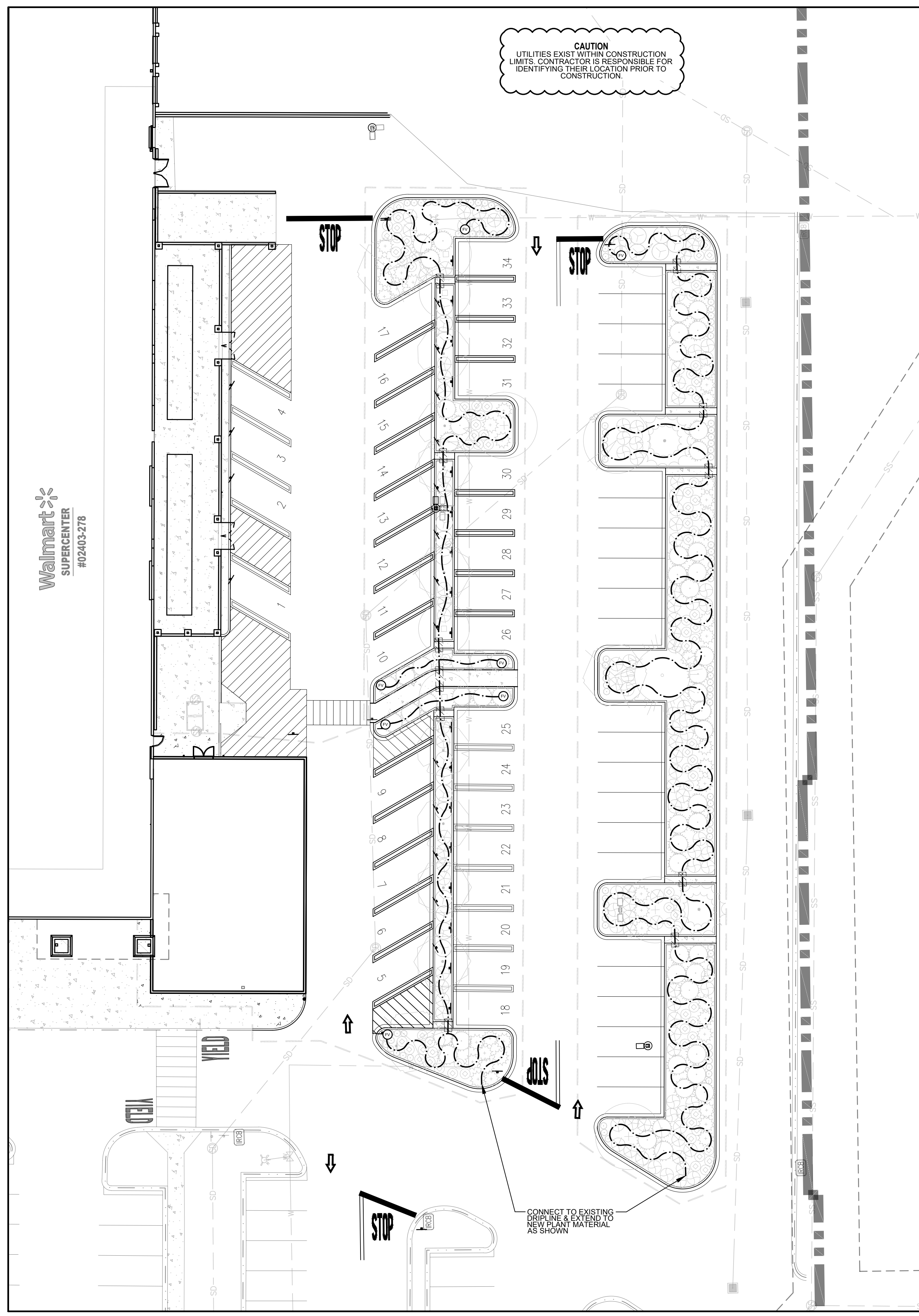
CAUTION - NOTICE TO CONTRACTOR

- 1. ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE FIELD LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
2. WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POT-HOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.



SHEET: L1.1





IRRIGATION PLAN  
APPROX. 1" = 20'

IRRIGATION LEGEND

Table with 5 columns: SYMBOL, MANUF., MODEL NO., DESCRIPTION, REMARKS/DETAIL. Includes entries for DRIP SYSTEM (Rainbird, Inboro) and MAIN LINE/LATERALS & SLEEVES (any approved).

GENERAL IRRIGATION NOTES

- 1. IRRIGATION DESIGN IS NOT AN EXACT SCIENCE... 2. REFER TO SPECIFICATIONS... 3. THE IRRIGATION CONTRACTOR SHALL MEET WITH THE OWNER'S REPRESENTATIVE... 4. THE IRRIGATION CONTRACTOR SHALL VERIFY ALL DIMENSIONS... 5. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL GRADE DIFFERENCES... 6. THE CONTRACTOR SHALL MAKE NO SUBSTITUTIONS... 7. THE IRRIGATION SYSTEM DESIGN IS BASED ON THE MINIMUM OPERATING PRESSURE AND THE MAXIMUM FLOW DEMAND SHOWN ON THE POINT OF CONNECTION... 8. ALL CONSTRUCTION SHALL CONFORM TO CITY, COUNTY, STATE, AND FEDERAL REQUIREMENTS... 9. THE IRRIGATION CONTRACTOR SHALL VERIFY THE STATIC & OPERATING WATER PRESSURE PRIOR TO CONSTRUCTION... 10. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT IF AVAILABLE WATER PRESSURE EXCEEDS 5 PSI HIGHER OR LOWER THAN AVAILABLE WATER PRESSURE... 11. NO MORE THAN 90% OF AVAILABLE MINIMUM STATIC WATER PRESSURE WAS USED IN PREPARATION OF THESE PLANS... 12. SUPPLY LINE AND METER TO BE PROVIDED BY GENERAL CONTRACTOR... 13. INSTALL ALL MATERIALS AND EQUIPMENT AS SHOWN ON THE PLANS AND DETAILS... 14. WHEN INSTALLING IRRIGATION PIPE AND EQUIPMENT NEXT TO HARDSCAPE... 15. THE IRRIGATION CONTRACTOR SHALL COORDINATE 120 V A.C. ELECTRICAL POWER TO CONTROLLERS... 16. THE RAIN SENSOR SHALL BE LOCATED NEAR THE IRRIGATION CONTROLLER... 17. ALL VALVE CONTROL WIRE SHALL BE AWG 14 TYPE UF-800 VOLT TEST, DIRECT BURIAL... 18. CONTRACTOR SHALL PROVIDE #10 COMMON WIRE, DIRECT BURIAL, TO ALL REMOTE CONTROL VALVES.

UTILITY NOTES

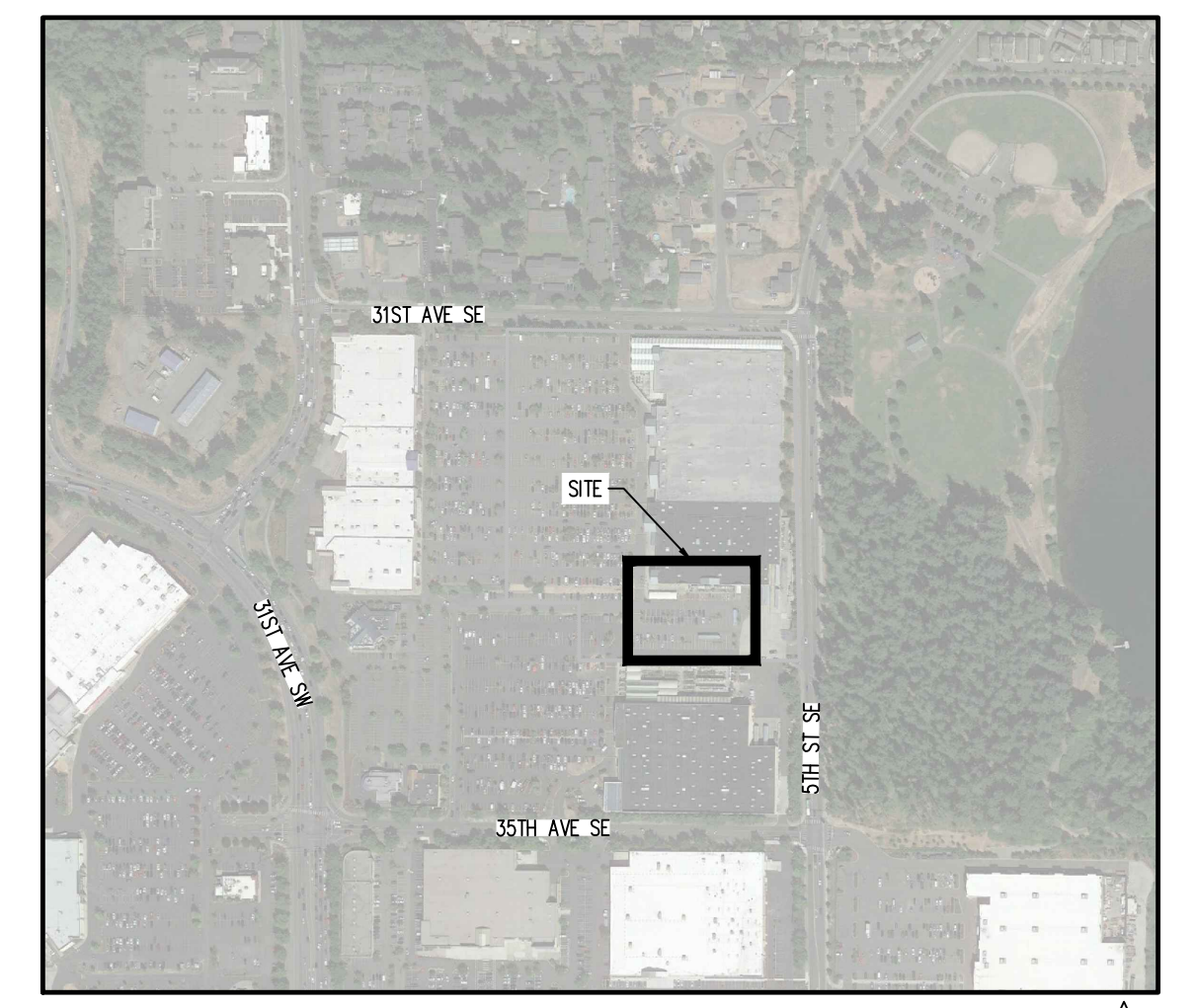
- 1. THE LANDSCAPE CONTRACTOR IS REQUIRED TO CONTACT THE COUNTY PUBLIC WORKS DEPARTMENT... 2. THIS DRAWING IS A PART OF A COMPLETE SET OF BID DOCUMENTS... 3. THE LOCATION OF THE ALL UNDERGROUND UTILITIES ARE LOCATED ON THE ENGINEERING DRAWINGS FOR THIS PROJECT...

IRRIGATION DISCLAIMER

- 1. IRRIGATION DESIGN IS NOT AN EXACT SCIENCE... 2. CONTRACTOR SHALL INSTALL MAINLINES 12" FROM PAVEMENT EDGE... 3. THE IRRIGATION CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL ABOVE-GRADE AND VISIBLE IRRIGATION EQUIPMENT... 4. THE IRRIGATION SYSTEM DESIGN IS BASED ON THE MINIMUM OPERATING PRESSURE AND THE MAXIMUM FLOW DEMAND SHOWN ON THE DRAWINGS... 5. ALL PRESSURIZED MAINLINES, VALVES, DRIP, AND ROTOR AND SPRAY HEADS SHALL BE INSTALLED A MINIMUM OF 5' AWAY FROM ANY BUILDING FOUNDATION... 6. REFER TO THIS SHEET FOR IRRIGATION NOTES AND IRRIGATION DETAILS.

CONTRACTOR NOTE

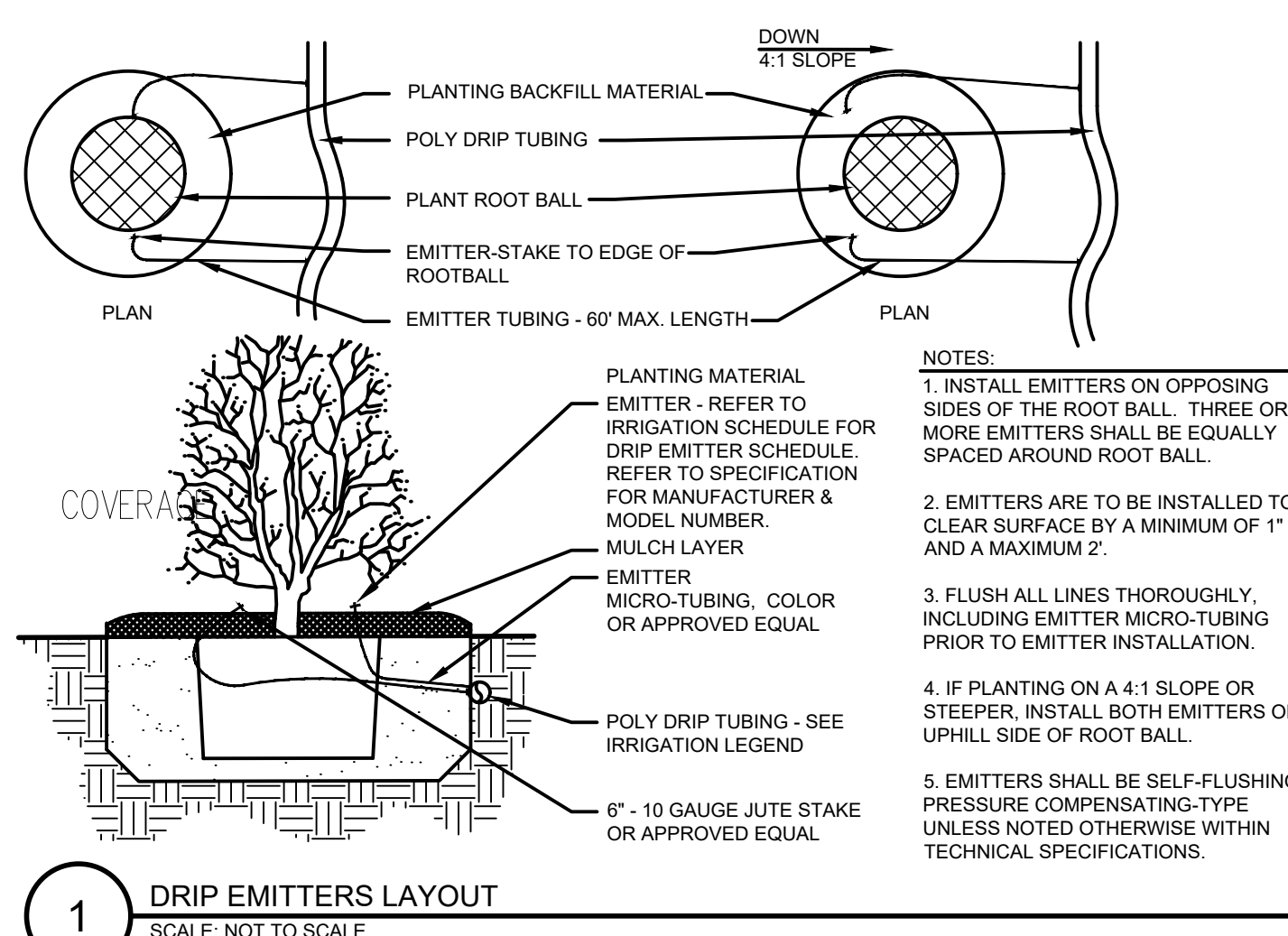
- 1. CONTRACTOR TO ENSURE IRRIGATION SYSTEM IS IN PLACE AND OPERATIONAL PRIOR TO INSTALLATION... 2. CONTRACTOR TO RETROFIT AND EXTEND THE EXISTING IRRIGATION SYSTEM TO NEWLY ADDED PLANT MATERIAL... 3. ALL IRRIGATION EQUIPMENT AND COMPONENTS USED SHALL MATCH THE EXISTING IRRIGATION SYSTEM... 4. CONTRACTOR TO ENSURE THE RETROFITTED IRRIGATION SYSTEM IS OPERATIONAL UPON COMPLETION... 5. CONTACT THE LANDSCAPE ARCHITECT WITH ANY QUESTIONS REGARDING THIS RETROFIT.



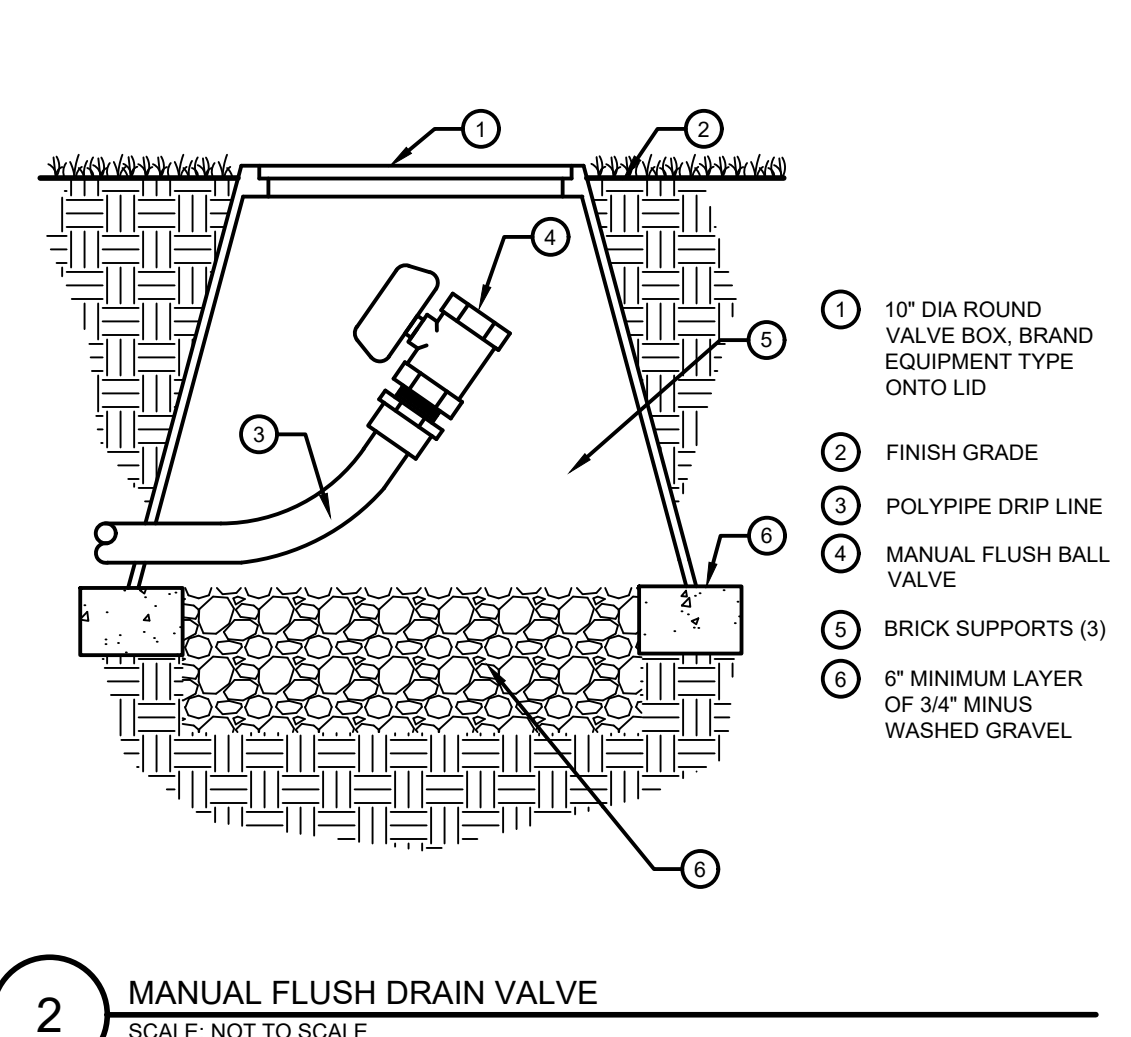
KEY MAP  
APPROX. 1" = 500'

CAUTION - NOTICE TO CONTRACTOR

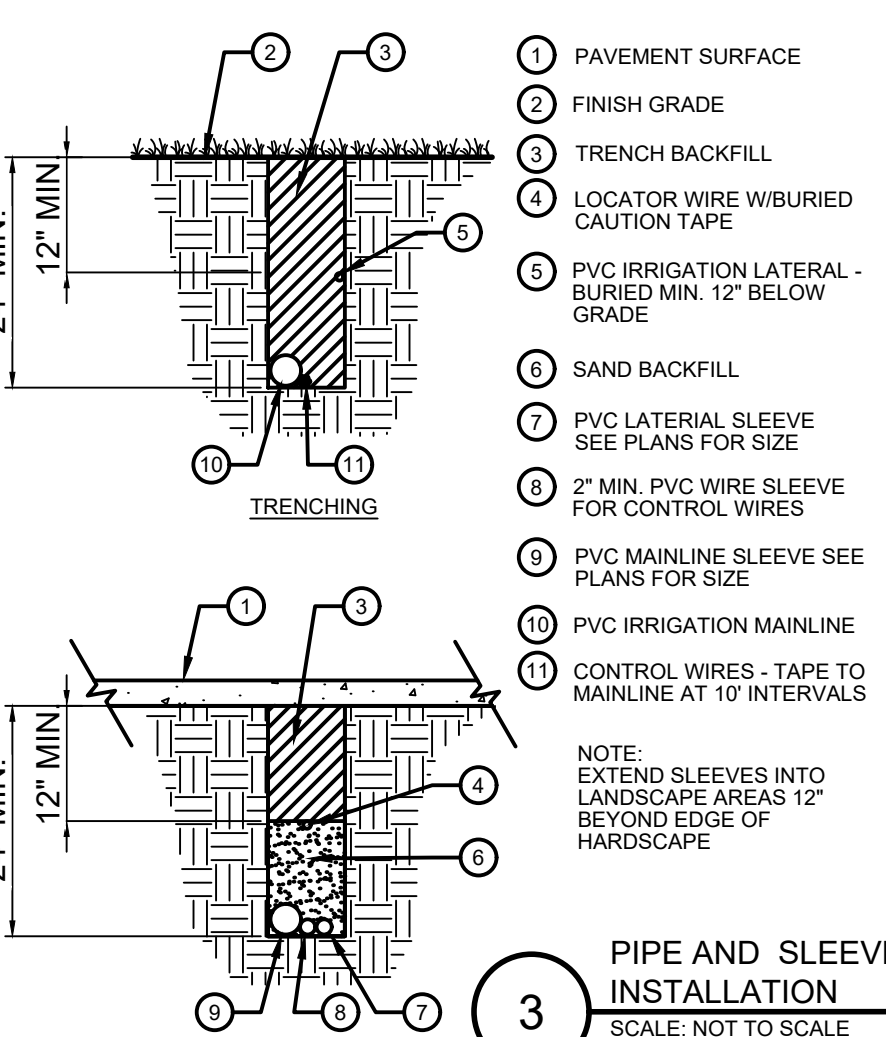
- 1. ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY... 2. WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY...



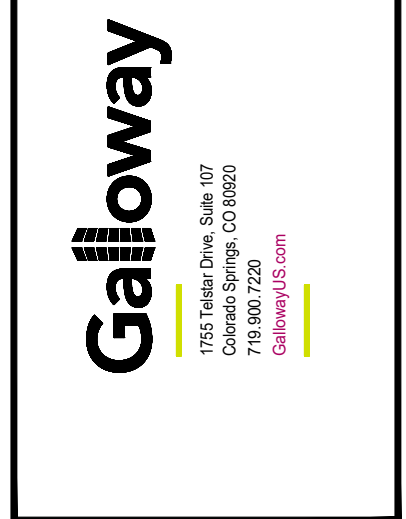
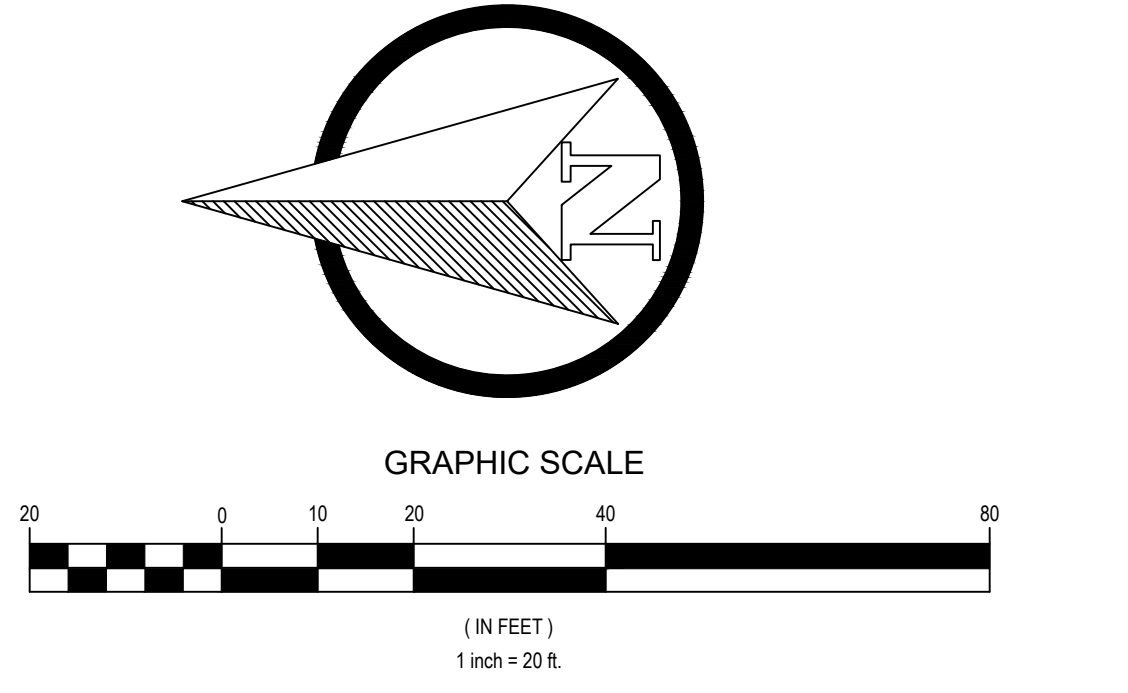
1 DRIP EMITTERS LAYOUT  
SCALE: NOT TO SCALE



2 MANUAL FLUSH DRAIN VALVE  
SCALE: NOT TO SCALE



3 PIPE AND SLEEVE INSTALLATION  
SCALE: NOT TO SCALE



STIPULATION FOR REUSE: THIS DRAWING IS PREPARED FOR THE PROJECT SPECIFIC SITE AT PUYALLUP, WA...



Walmart SUPERCENTER #02403-278  
310 31ST AVE SE  
PUYALLUP, WA  
STORE NO: 02403-278  
JOB NUMBER: WDP02403-278

ISSUE BLOCK  
PR#1 01/25/22

CHECKED BY: KES  
DRAWN BY: EDN  
PROTO CYCLE: 1  
DOCUMENT DATE: 09/08/21

IRRIGATION PLAN

SHEET:  
IR1.0