



Sidock Group

ARCHITECTS-ENGINEERS-CONSULTANTS

Corporate Headquarters
45650 Grand River Avenue
Novi, Michigan 48374
Ph: (248)349-4500 • Fax: (248)349-1429

Design Studio
43155 Main Street, Suite 2306
Novi, Michigan 48375

Novi • Wyandotte • Muskegon
Lansing • Gaylord • Sault Ste. Marie

www.sidockarchitects.com
www.sidockgroup.com

Key Plan: No Scale

BIRMINGHAM FIRE STATION No. 2

CITY OF BIRMINGHAM, MICHIGAN

BIDS
DECEMBER 5, 2016

Client:
CITY OF BIRMINGHAM

Project:
BIRMINGHAM
FIRE STATION No. 2

1600 WEST MAPLE
BIRMINGHAM, MI 48009

Seal:

Date	Issued For
07/19/16	95 REVIEW
07/29/16	FINAL REVIEW
12/05/16	BIDS

Drawn: K. GILSON
Checked: S. PETERSON
Approved: S. PETERSON

Sheet Title:
COVER SHEET

Project Number: 15566

Sheet Number: CS-001

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**CODE
COMPLIANCE
CALCULATIONS**

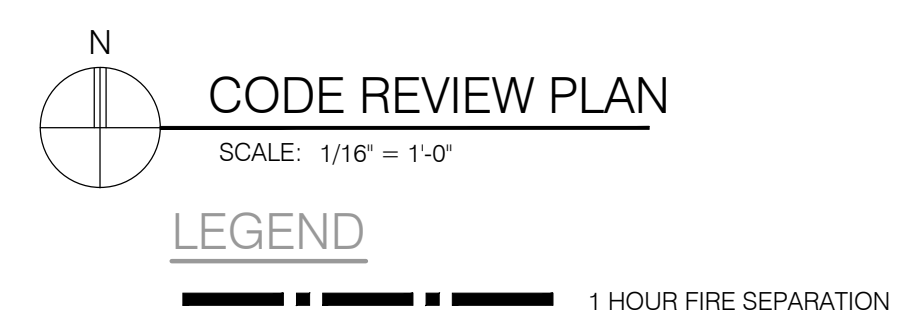
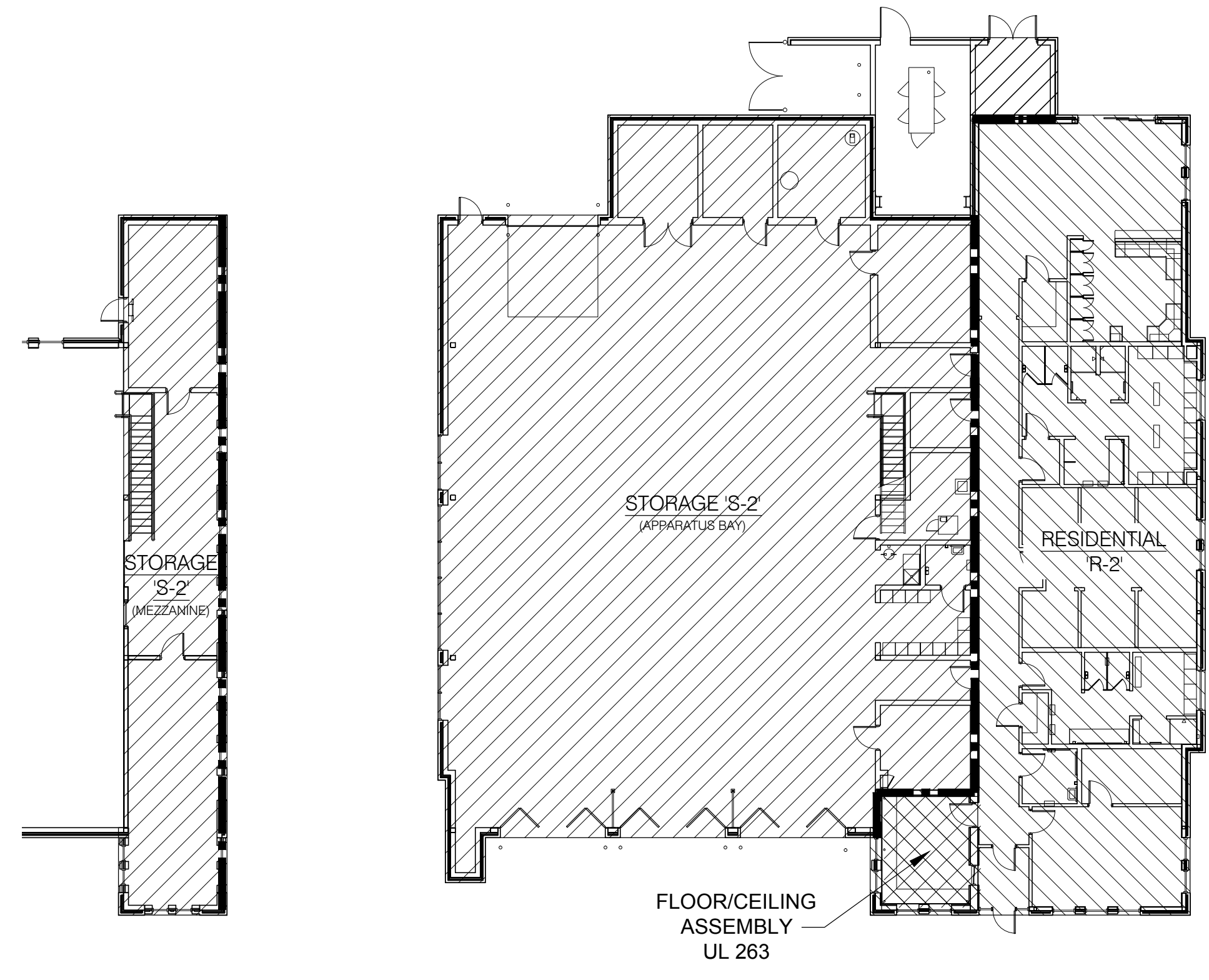
Project Number: 15566

Sheet Number: **CS-003**

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PROJECT DATA & CODE COMPLIANCE CALCULATIONS

CODE DATA			
2012 MICHIGAN BUILDING CODE, 2012 MICHIGAN MECHANICAL CODE, 2012 MICHIGAN PLUMBING CODE 2006 INTERNATIONAL FUEL GAS CODE, MICHIGAN ELECTRICAL CODE, 2014 NEC w/PART 8 STATE AMENDMENTS ICC/ANSI A117.1-2009 MICHIGAN UNIFORM ENERGY CODE			
USE GROUPS:	"R-2" / "S-2" MIXED USE, SEPARATED	MCB 302 MCB 508.4	
R-2	RESIDENTIAL (Firefighter Living Quarters)	MBC 2012 - 310.4	
S-2	STORAGE (Apparatus Bay and Support Areas)	MBC 2012 - 311.3	
CONSTRUCTION TYPE:	IIIB (FULLY SPRINKLED)	MBC TABLE 503	
ALLOWABLE BUILDING HEIGHT:	USE GROUP "R-2" 55'; 4 STORIES	USE GROUP "S-2" 55'; 3 STORIES	MCB 506.4.1
ALLOWABLE BUILDING AREA: (PER STORY)	16,000 S.F.	26,000 S.F.	MCB 508.3.2
ACTUAL BUILDING GROSS AREA:	11,133 S.F.		
BUILDING OCCUPANT LOAD CALCULATIONS:			MBC TABLE 1004.1.2
TABULAR OCCUPANCY			
USE GROUP "R-2" LIVING QUARTERS	3,400 S.F. GROSS/200 S.F. GROSS PER PERSON = 17 OCCUPANTS*		
USE GROUP "S-2" (APPARATUS BAY/MEZZANINE)	7,733 S.F. GROSS/200 S.F. GROSS PER PERSON = 39 OCCUPANTS		
NOTE: BASED ON OWNER AFFIDAVIT, ACTUAL BUILDING OCCUPANT LOAD = 6 FIREFIGHTERS (4 MALE, 2 FEMALE)			
BUILDING EGRESS:			MBC 1005
APPARATUS BAY AREA ("S-2") CORRIDORS & DOORS:			
0.30' / OCCUPANT x 39 TOTAL OCCUPANTS = 11.7' MIN. (2) 36" DOORS PROVIDED - O.K.			
LIVING QUARTERS ("R-2") CORRIDORS & DOORS:			
0.30' / OCCUPANT x 17 OCCUPANTS = 5.1' MIN. (2) 36" DOORS AND 5'-0" CORRIDORS PROVIDED - O.K.			
TRAVEL DISTANCES: (WITH SPRINKLER SYSTEM)			MBC TABLE 1016.2
OCCUPANCY:	R-2 250 FT. MAX	ACTUAL = 83 FT. - O.K.	
OCCUPANCY:	S-2 400 FT. MAX	ACTUAL = 75 FT. - O.K.	



REQUIRED PLUMBING FIXTURE CALCULATIONS							
RESIDENTIAL (R-2) AND STORAGE (S-2) AREA: TOTAL CALCULATED OCCUPANT LOAD = 56 PEOPLE; (28 MALE/ 28 FEMALE) TOTAL ACTUAL OCCUPANT LOAD = 6 PEOPLE; (4 MALE/ 2 FEMALE)*							
*PER OWNER AFFADAVIT ACTUAL OCCUPANCY BASED ON USE.							
TOILET FIXTURES REQUIRED:							
	<table border="0"> <tr> <td style="text-align: center;"><u>MALE</u></td> <td style="text-align: center;"><u>FEMALE</u></td> </tr> </table>	<u>MALE</u>	<u>FEMALE</u>				
<u>MALE</u>	<u>FEMALE</u>						
WATERCLOSETS:	<table border="0"> <tr> <td style="text-align: center;">(1 PER 10 OCCUPANTS)</td> <td style="text-align: center;">(1 PER 10 OCCUPANTS)</td> </tr> <tr> <td>4/10 = 0.4 = (1) FIXTURE REQUIRED</td> <td>2/10 = 0.2 = (1) FIXTURE REQUIRED</td> </tr> <tr> <td style="text-align: center;">(2) PROVIDED + (2) URINALS</td> <td style="text-align: center;">(2) PROVIDED + (2) UNISEX</td> </tr> </table>	(1 PER 10 OCCUPANTS)	(1 PER 10 OCCUPANTS)	4/10 = 0.4 = (1) FIXTURE REQUIRED	2/10 = 0.2 = (1) FIXTURE REQUIRED	(2) PROVIDED + (2) URINALS	(2) PROVIDED + (2) UNISEX
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LAVATORIES:	<table border="0"> <tr> <td style="text-align: center;">(1 PER 10 OCCUPANTS)</td> <td style="text-align: center;">(1 PER 10 OCCUPANTS)</td> </tr> <tr> <td>4/10 = 0.4 = (1) FIXTURE REQUIRED</td> <td>2/10 = 0.2 = (1) FIXTURE REQUIRED</td> </tr> <tr> <td style="text-align: center;">(2) PROVIDED + (1) UNISEX</td> <td style="text-align: center;">(2) PROVIDED + (1) UNISEX</td> </tr> </table>	(1 PER 10 OCCUPANTS)	(1 PER 10 OCCUPANTS)	4/10 = 0.4 = (1) FIXTURE REQUIRED	2/10 = 0.2 = (1) FIXTURE REQUIRED	(2) PROVIDED + (1) UNISEX	(2) PROVIDED + (1) UNISEX
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(2) PROVIDED + (1) UNISEX	(2) PROVIDED + (1) UNISEX						
BATHTUBS/SHOWERS: (LIVING QUARTERS)	<table border="0"> <tr> <td style="text-align: center;">(1 PER 8 OCCUPANTS)</td> <td style="text-align: center;">(1 PER 8 OCCUPANTS)</td> </tr> <tr> <td>4/8 = 0.5 = (1) FIXTURE REQUIRED</td> <td>2/8 = 0.25 = (1) FIXTURE REQUIRED</td> </tr> <tr> <td style="text-align: center;">(2) PROVIDED</td> <td style="text-align: center;">(1) PROVIDED</td> </tr> </table>	(1 PER 8 OCCUPANTS)	(1 PER 8 OCCUPANTS)	4/8 = 0.5 = (1) FIXTURE REQUIRED	2/8 = 0.25 = (1) FIXTURE REQUIRED	(2) PROVIDED	(1) PROVIDED
(1 PER 8 OCCUPANTS)	(1 PER 8 OCCUPANTS)						
4/8 = 0.5 = (1) FIXTURE REQUIRED	2/8 = 0.25 = (1) FIXTURE REQUIRED						
(2) PROVIDED	(1) PROVIDED						
DRINKING FOUNTAINS:	<table border="0"> <tr> <td style="text-align: center;">(1 PER 100 OCCUPANTS)</td> </tr> <tr> <td>6/100 = 0.06 = (1) FIXTURE REQUIRED</td> </tr> <tr> <td style="text-align: center;">(2) PROVIDED</td> </tr> </table>	(1 PER 100 OCCUPANTS)	6/100 = 0.06 = (1) FIXTURE REQUIRED	(2) PROVIDED			
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6/100 = 0.06 = (1) FIXTURE REQUIRED							
(2) PROVIDED							
SERVICE SINKS:	<table border="0"> <tr> <td style="text-align: center;">(1) FIXTURE REQUIRED</td> </tr> <tr> <td style="text-align: center;">(1) PROVIDED</td> </tr> </table>	(1) FIXTURE REQUIRED	(1) PROVIDED				
(1) FIXTURE REQUIRED							
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Tree Information

Tree #	Botanical Name	Common Name	Dia.	Condition	Comments
1	Acer saccharinum	Silver Maple	26	Good	
2	Acer platanoides	Norway Maple	16	Fair	Some trunk decay, heavy branch ends, sparse crown
3	Malus spp.	Crabapple spp.	9	Fair	In-rolled trunk seam with some decay
4	Tilia americana	Basswood	16	Good	
5	Abies concolor	White Fir	13	Good	
6	Picea abies	Norway Spruce	22	Fair	Being choked by ivy vines
7	Pinus strobus	Eastern White Pine	22	Good	Being choked by ivy vines
8	Rhamnus cathartica	Common Buckthorn	10	Fair	Numerous crooks in trunk, marginal form
9	Morus alba	White Mulberry	16	Good	
10	Rhamnus cathartica	Common Buckthorn	8	Poor	Extensive trunk decay, 30% dead
11	Acer platanoides	Norway Maple	8	Fair	Very restrictive and unbalanced crown
12	Acer platanoides	Norway Maple	20	Good	
13	Ulmus americana	American Elm	14	Good	Being choked by vines
14	Morus alba	White Mulberry	16	Fair	Flux, being choked by vines
15	Acer platanoides	Norway Maple	9	Good	
16	Gleditsia triacanthos	Honeylocust	28	Good	
17	Celtis occidentalis	Northern Hackberry	4	Good	Mower damage to trunk base
18	Gleditsia triacanthos	Honeylocust	28	Good	
19	Unknown	Unknown	9	Good	
20	Gleditsia triacanthos	Honeylocust	18	Good	
21	Gleditsia triacanthos	Honeylocust	14	Good	
22	Acer platanoides	Norway Maple	16	Good	
23	Ulmus americana	American Elm	9	Good	Hybrid
24	Acer platanoides	Norway Maple	16	Good	
25	Acer platanoides	Norway Maple	13	Good	
26	Acer platanoides	Norway Maple	9	Good	
27	Ulmus americana	American Elm	12	Good	Hybrid
28	Acer saccharinum	Silver Maple	16	Fair	Terminal leader dead, unbalanced crown
29	Acer saccharinum	Silver Maple	22	Good	
30	Crataegus spp.	Hawthorn apple	6	Good	
31	Acer saccharinum	Silver Maple	28	Good	



CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL (248) 332-7931
FAX (248) 332-8257

PROJECT
Chesterfield Fire Station
1600 W. Maple
Birmingham, MI



Engineering Department
151 Martin Street
Birmingham, MI 48012

PROJECT LOCATION
Part of the SE 1/4 of
Sections 26, Town 2 North,
Range 10 East, City of
Birmingham, Oakland
County, Michigan

SHEET
Boundary / Topography
Survey



Know what's below
Call before you dig.

REVISIONS
9-21-15 Issued Draft to Architect
10-07-15 Issued Final Survey

DRAWN BY:
RP

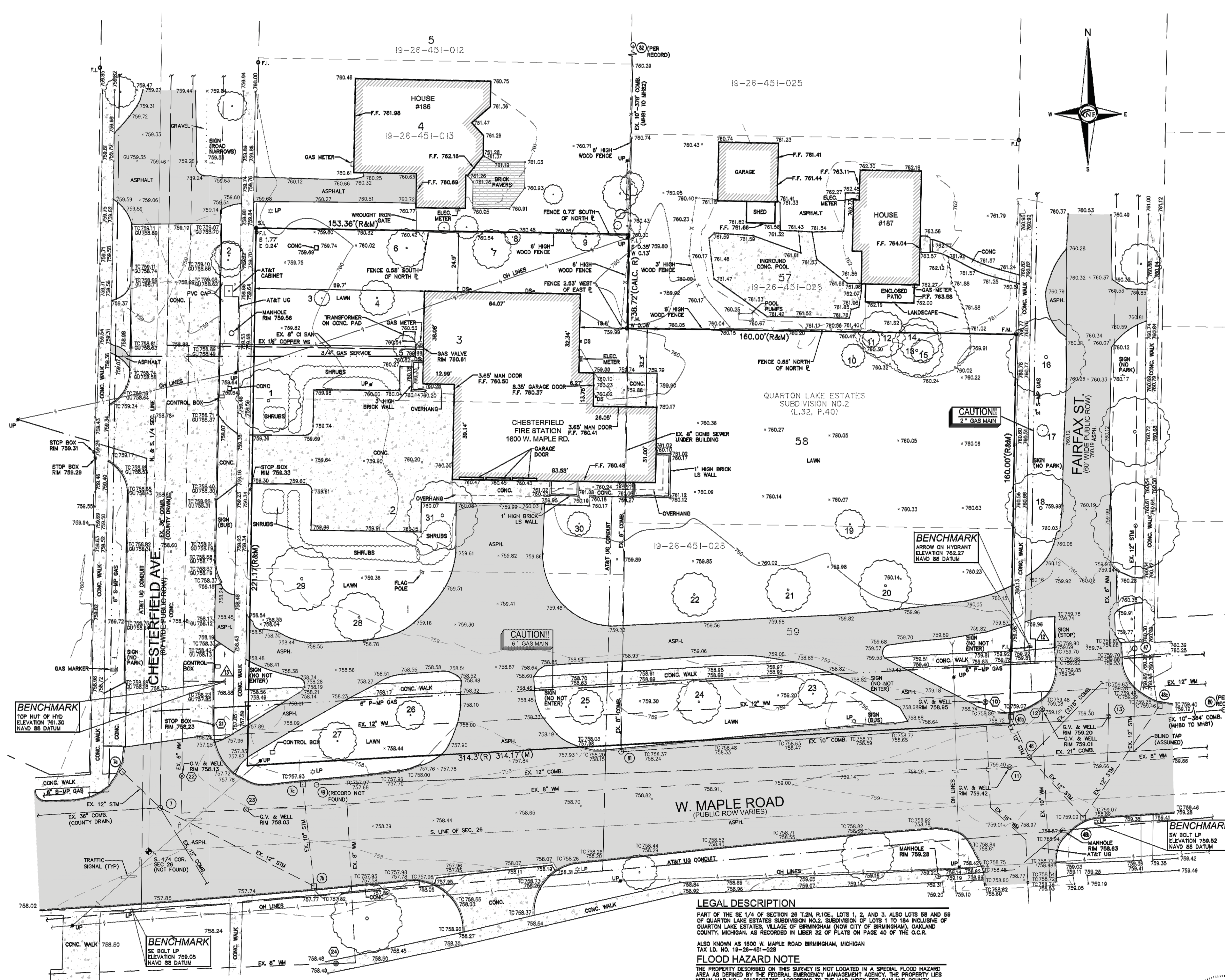
DESIGNED BY:
BB

APPROVED BY:
BB/GY

DATE:
9-22-15

SCALE: 1" = 20'

NFE JOB NO. SHEET NO.
1757 TS-001



SEWER STRUCTURE SCHEDULE

- 7 EX. COMBINATION MH
RM 758.17
12" NW INV. 752.67
12" SSE INV. 752.87
15" SSE INV. 757.87
36" N INV. 746.67
36" W INV. 746.67
- 76 EX. CATCH BASIN
RM 757.86
12" SE INV. 752.91
- 76 EX. CATCH BASIN
RM 757.31
10" N INV. 753.91
12" NW INV. 753.91
- 76 EX. CATCH BASIN
RM 757.53
10" S INV. 754.47
- 47 EX. COMBINATION MH (RECORD)
RM 780.11
12" W INV. 748.11 (RECORD)
10" E INV. 748.13 (RECORD)
12" S INV. 753.55
- 48 EX. COMBINATION MH (RECORD)
RM 759.36
12" NW INV. 753.48
12" W INV. 752.46
21" W INV. 753.08
12" E INV. 748.18
15" NE INV. 749.36
15" NE INV. 749.36
- 48 EX. CATCH BASIN (RECORD)
RM 758.76
(BULKHEAD FILLED WITH CONC.)
- 48 EX. CATCH BASIN (RECORD)
RM 758.73
(BULKHEAD FILLED WITH CONC.)
- 48 EX. CATCH BASIN (RECORD)
RM 759.10
12" SW INV. 755.20
- 48 EX. COMBINATION MH (RECORD)
RM 758.09 (RECORD)
12" E INV. 754.49 (RECORD)
- 81 EX. COMBINATION MH (RECORD)
RM 758.22 (RECORD)
10" W INV. 748.11 (RECORD)
10" E INV. 748.13 (RECORD)
12" S INV. 753.55
- 81 EX. COMBINATION MH (RECORD)
RM 759.20
10" E INV. 750.10
8" N INV. 750.30
- 82 EX. COMBINATION MH (RECORD)
RM 759.82 (RECORD)
10" E INV. 750.12 (RECORD)
10" W INV. 748.13 (RECORD)

UTILITY NOTE
THE LOCATIONS AND ELEVATIONS OF SOME OF THE EXISTING UNDERGROUND UTILITIES AS SHOWN ON THE SURVEY DRAWING WERE OBTAINED FROM MUNICIPAL AND UTILITY COMPANY RECORDS AND MAPS. THEREFORE, NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

LEGEND

	CATCH BASIN		WALL MOUNTED LIGHT
	REAR YARD BASIN		SANITARY SEWER MANHOLE
	END SECTION		END SECTION
	SANITARY SEWER MANHOLE		CLEAN OUT
	COMBINED SEWER MANHOLE		GATE VALVE & WELL
	HYDRANT		NOT FOUND
	WATER SHUT OFF WELL		ELECTRIC MANHOLE
	TELEPHONE MANHOLE		UTILITY POLE
	GUY POLE		LIGHT POLE
	PUBLIC TELEPHONE		GAS METER
	GAS VALVE		GAS MARKER
	HANDICAP PARKING SPACE		STORM SEWER
	FLAG POLE		SANITARY SEWER
			WATER MAIN
			GAS MAIN
			OVERHEAD CABLES
			UNDERGROUND CABLES

LEGAL DESCRIPTION
PART OF THE SE 1/4 OF SECTION 26 T.2N. R.10E., LOTS 1, 2, AND 3, ALSO LOTS 58 AND 59 OF QUARTON LAKE ESTATES SUBDIVISION NO. 2, SUBDIVISION OF LOTS 1 TO 184 INCLUSIVE OF QUARTON LAKE ESTATES, VILLAGE OF BIRMINGHAM (NOW CITY OF BIRMINGHAM), OAKLAND COUNTY, MICHIGAN, AS RECORDED IN LIBER 32 OF PLATS ON PAGE 40 OF THE O.C.R.
ALSO KNOWN AS 1600 W. MAPLE ROAD BIRMINGHAM, MICHIGAN
TAX I.D. NO. 19-26-451-028

FLOOD HAZARD NOTE
THE PROPERTY DESCRIBED ON THIS SURVEY IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY. THE PROPERTY LIES WITHIN MAP NO. 28122C0836P, ACCORDING TO THE MAP INDEX FOR OAKLAND COUNTY, MICHIGAN, DATED 9-29-08

SURVEY NOTES
1. ALL ELEVATIONS ARE EXISTING ELEVATIONS ON BIRMINGHAM DATUM
2. UTILITY LOCATIONS WERE OBTAINED FROM MUNICIPAL OFFICIALS AND RECORDS OF UTILITY COMPANIES, AND NO GUARANTEE CAN BE MADE TO THE COMPLETENESS, OR EXACTNESS OF LOCATION
3. TITLE WORK HAS NOT BEEN PROVIDED TO THE SURVEYOR. THE LEGAL DESCRIPTION IS BASED UPON AVAILABLE COUNTY RECORDS OBTAINED BY SURVEYOR. ALSO, THIS SURVEY MAY NOT SHOW ALL EASEMENTS OF RECORD UNLESS AN UPDATED TITLE POLICY IS FURNISHED TO THE SURVEYOR BY THE OWNER.

CERTIFICATE OF SURVEY
WE HEREBY CERTIFY THAT WE HAVE SURVEYED THE PROPERTY HEREBY DESCRIBED AND THAT WE HAVE PLACED MARKER IRONS AT THE CORNERS OF THE PARCEL OR AS INDICATED IN THE ABOVE SKETCH.
CHAD L. FINDLEY, P.S. DATE: 10-7-2015
NO: 55108



Tree Information

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SHEET
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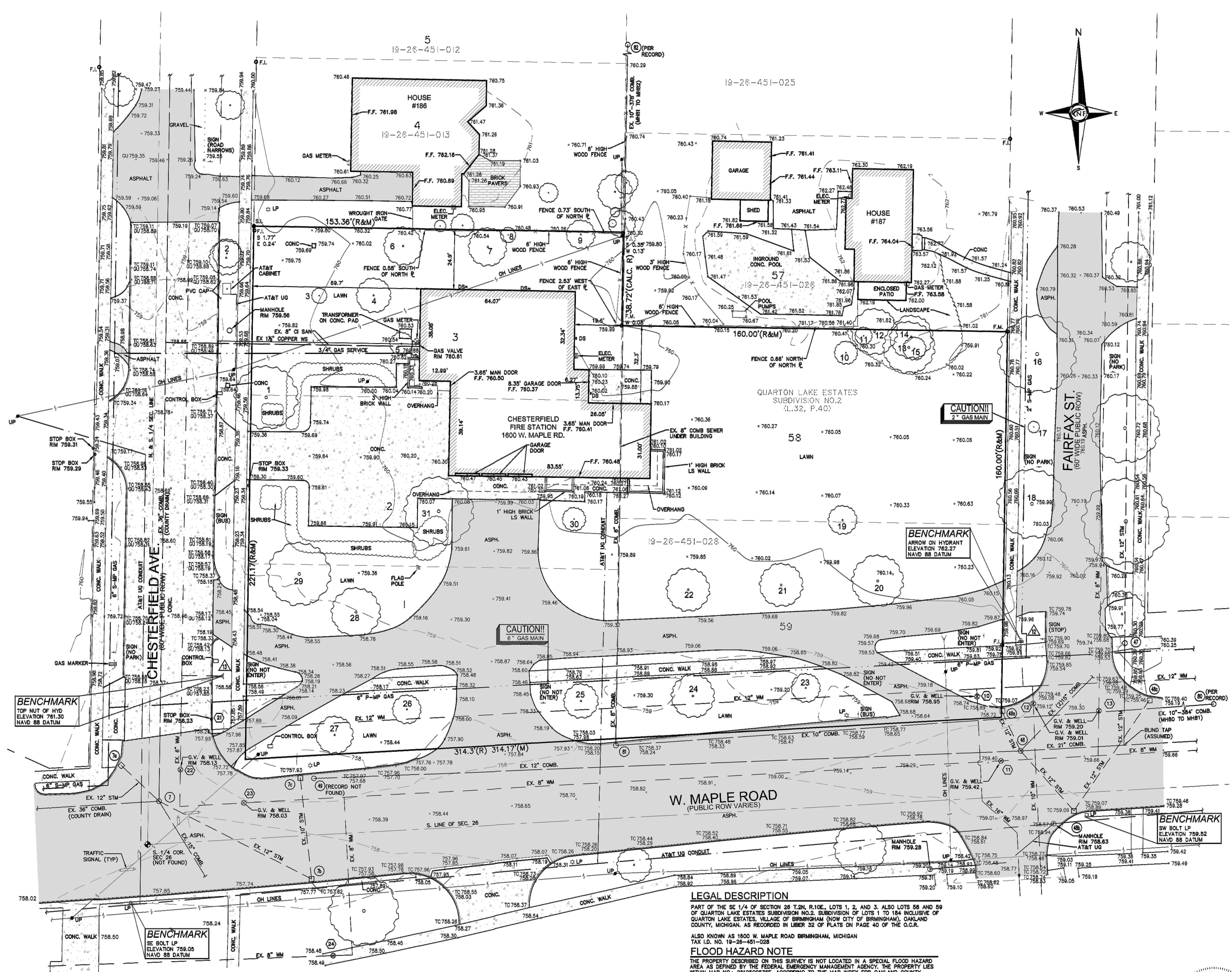
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20 10 0 10 20 30

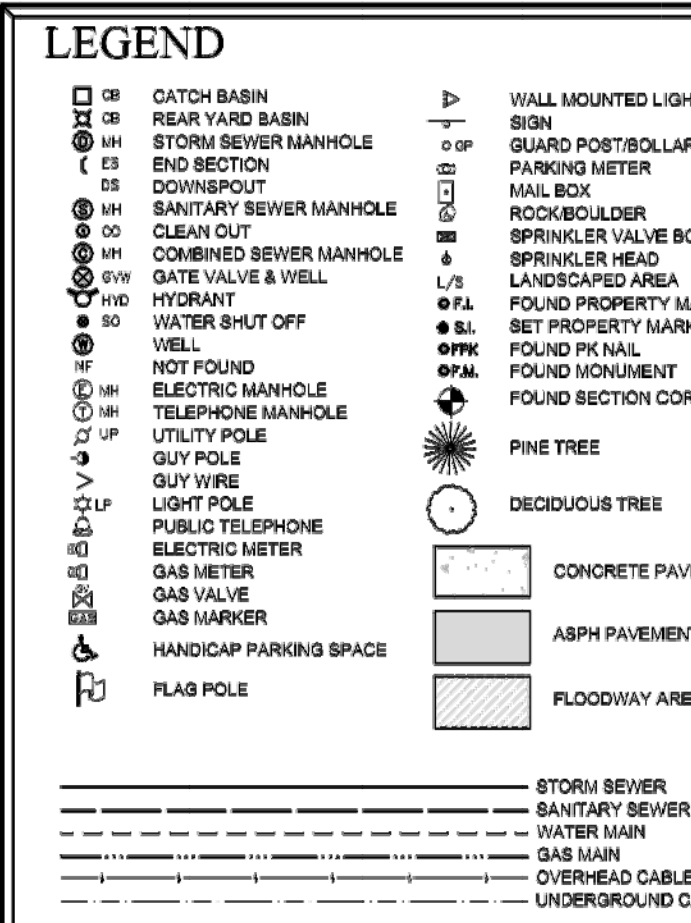
NFE JOB NO. 1757 SHEET NO. TS-001



SEWER STRUCTURE SCHEDULE

- 7 EX. COMBINATION MH RM 758.17 12" NW INV. 753.68 12" SSE INV. 752.87 15" SSE INV. 757.87 36" N INV. 746.87 36" W INV. 746.67
- 76 EX. CATCH BASIN RM 757.86 12" SE INV. 752.91
- 76 EX. CATCH BASIN RM 757.31 10" N INV. 753.91 12" NW INV. 753.91
- 76 EX. CATCH BASIN RM 757.53 10" S INV. 754.47
- 47 EX. COMBINATION MH RM 760.11 12" W INV. 748.11 (RECORD) 10" E INV. 748.13 (RECORD) 8" N INV. 753.55 12" S INV. 753.55
- 48 EX. COMBINATION MH RM 759.36 12" NW INV. 753.48 12" SE INV. 752.46 21" W INV. 753.06 12" E INV. 748.16 15" NE INV. 749.36 15" NE INV. 749.36
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- 80 EX. COMBINATION MH (RECORD) RM 759.82 (RECORD) 10" W INV. 748.11 (RECORD) 10" E INV. 748.13 (RECORD) 8" N INV. 753.55 12" S INV. 753.55
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- 82 EX. COMBINATION MH (RECORD) RM 759.82 (RECORD) 10" E INV. 750.10 8" N INV. 748.13 (RECORD) 10" W INV. 748.13 (RECORD)

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SURVEY NOTES
1. ALL ELEVATIONS ARE EXISTING ELEVATIONS ON BIRMINGHAM DATUM
2. UTILITY LOCATIONS WERE OBTAINED FROM MUNICIPAL OFFICIALS AND RECORDS OF UTILITY COMPANIES, AND NO GUARANTEE CAN BE MADE TO THE COMPLETENESS, OR EXACTNESS OF LOCATION
3. TITLE WORK HAS NOT BEEN PROVIDED TO THE SURVEYOR. THE LEGAL DESCRIPTION IS BASED UPON AVAILABLE COUNTY RECORDS OBTAINED BY SURVEYOR. ALSO, THIS SURVEY MAY NOT SHOW ALL EASEMENTS OF RECORD UNLESS AN UPDATED TITLE POLICY IS FURNISHED TO THE SURVEYOR BY THE OWNER.

CERTIFICATE OF SURVEY
WE HEREBY CERTIFY THAT WE HAVE SURVEYED THE PROPERTY HEREIN DESCRIBED AND THAT WE HAVE PLACED MARKER IRONS AT THE CORNERS OF THE PARCEL OR AS INDICATED IN THE ABOVE SKETCH.
CHAD L. FINDLEY, P.S. NO. 55108 DATE: 10-7-2015





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Corporate Headquarters
45650 Grand River Avenue
Novi, Michigan 48374
Ph: (248)349-4500 • Fax: (248)349-1429

Design Studio
43155 Main Street, Suite 2306
Novi, Michigan 48375

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Key Plan: No Scale

Client:
CITY OF BIRMINGHAM

Project:
**BIRMINGHAM
FIRE STATION No. 2**

1600 WEST MAPLE
BIRMINGHAM, MI 48009

Seal:

Date	Issued For
07/29/16	FINAL REVIEW
12/05/16	BIDS

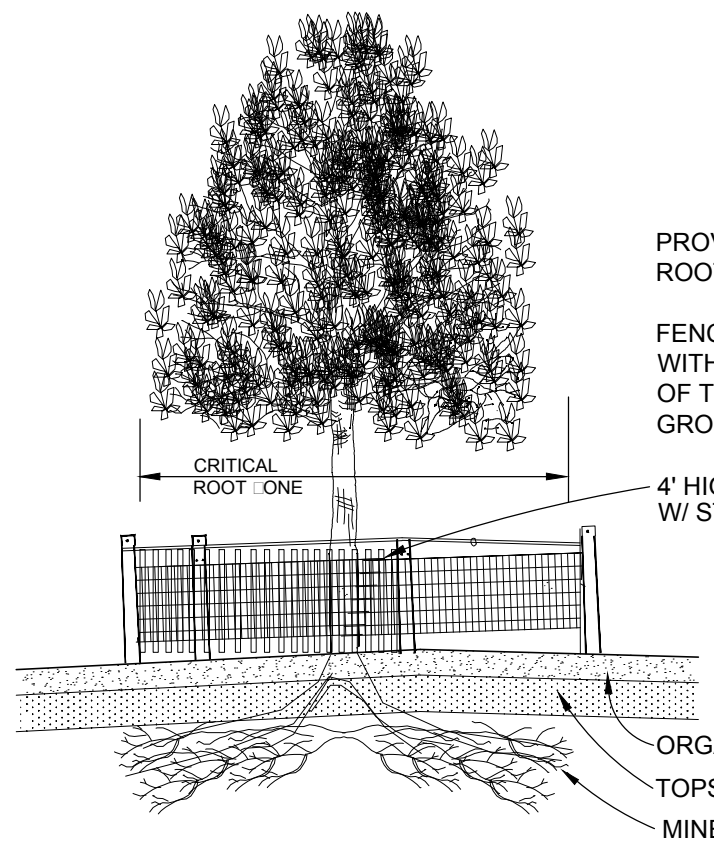
Drawn:	MJS
Checked:	CL
Approved:	SEP

Sheet Title:
DEMOLITION PLAN

Project Number: 15566

Sheet Number: **C-101**

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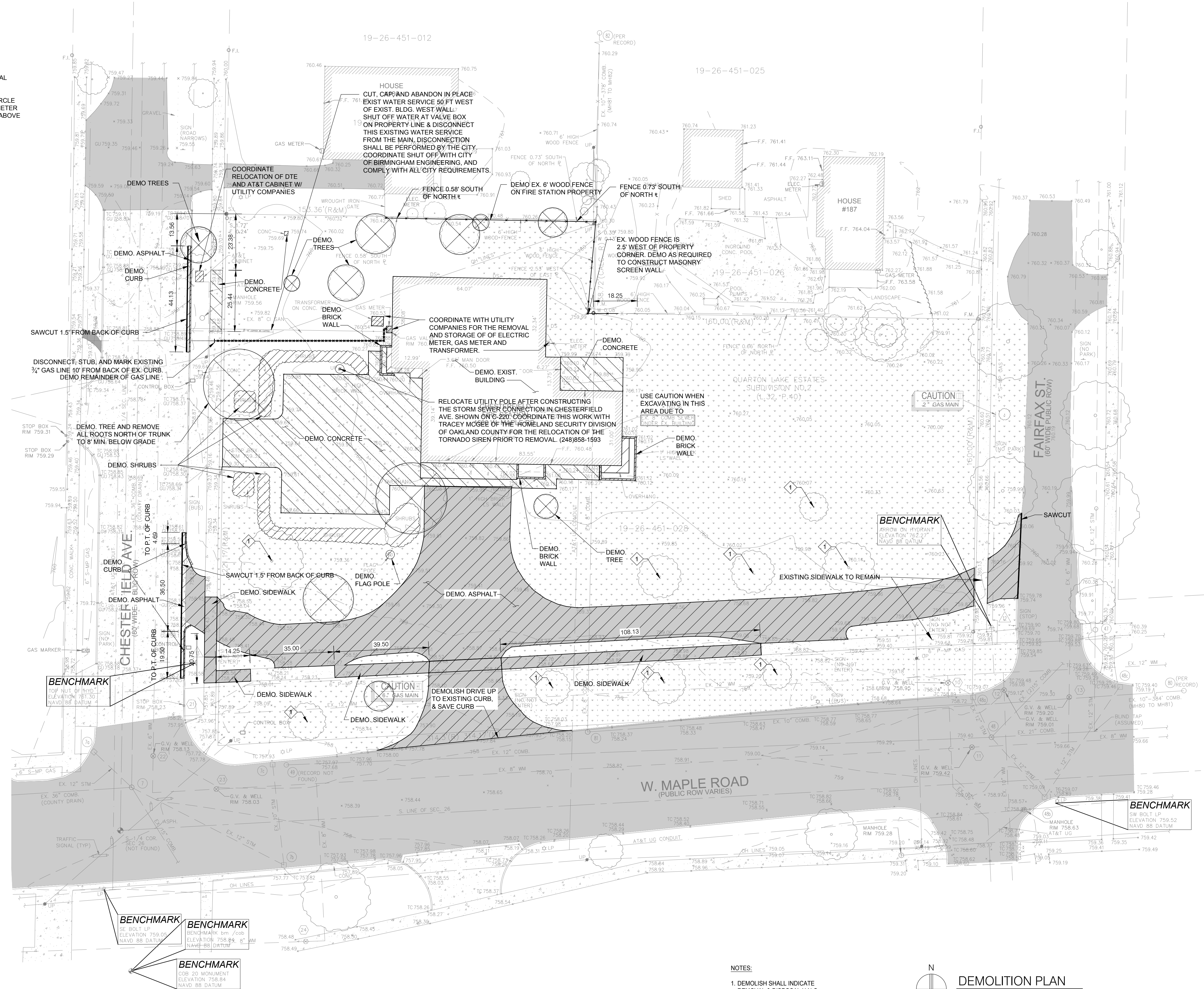


PROVIDE FENCE AROUND CRITICAL ROOT ONE OF TREE.
FENCE SHALL BE PLACED IN A CIRCLE WITH A RADIUS OF 1" PER 1" DIAMETER OF THE TREE MEASURED AT 4.5' ABOVE GROUND, AT A MINIMUM.
4" HIGH PLASTIC SNOW FENCE W/ STEEL POST - 10' O.C.

TREE PROTECTION DETAIL

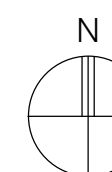
TREE PROTECTION SYMBOLS:
1 INSTALL TREE PROTECTION PER DETAIL ABOVE.

TREE PROTECTION NOTES:
TREE PROTECTION SHALL BE ERECTED PRIOR TO START OF CONSTRUCTION ACTIVITIES, AND SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE.
NO PERSON MAY CONDUCT ANY ACTIVITY WITHIN THE DRIP LINE OF ANY TREE DESIGNATED TO REMAIN, INCLUDING, BUT NOT LIMITED TO PLACING SOLVENTS, BUILDING MATERIAL, CONSTRUCTION EQUIPMENT, OR SOIL DEPOSITS WITHIN DRIP LINES.
GRADE CHANGES MUST BE MINIMAL WITHIN THE DRIP LINE OF PROTECTED TREES.
DURING CONSTRUCTION, NO PERSON SHALL ATTACH ANY DEVICE OR WIRE TO ANY REMAINING TREE.
ALL UTILITY SERVICE REQUESTS MUST INCLUDE NOTIFICATION TO THE INSTALLER THAT PROTECTED TREES MUST BE AVOIDED, ALL TRENCHING SHALL OCCUR OUTSIDE OF THE PROTECTIVE FENCING, WHERE POSSIBLE.
REGULATED TREES LOCATED ON ADJACENT PROPERTY THAT MAY BE AFFECTED BY CONSTRUCTION ACTIVITIES MUST BE PROTECTED.



NOTES:

- DEMOLISH SHALL INDICATE REMOVAL & DISPOSAL U.N.O.
- DEMO. TREE
- DEMO PAVEMENT



DEMOLITION PLAN
SCALE: 1" = 20'



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Corporate Headquarters
45650 Grand River Avenue
Novi, Michigan 48374
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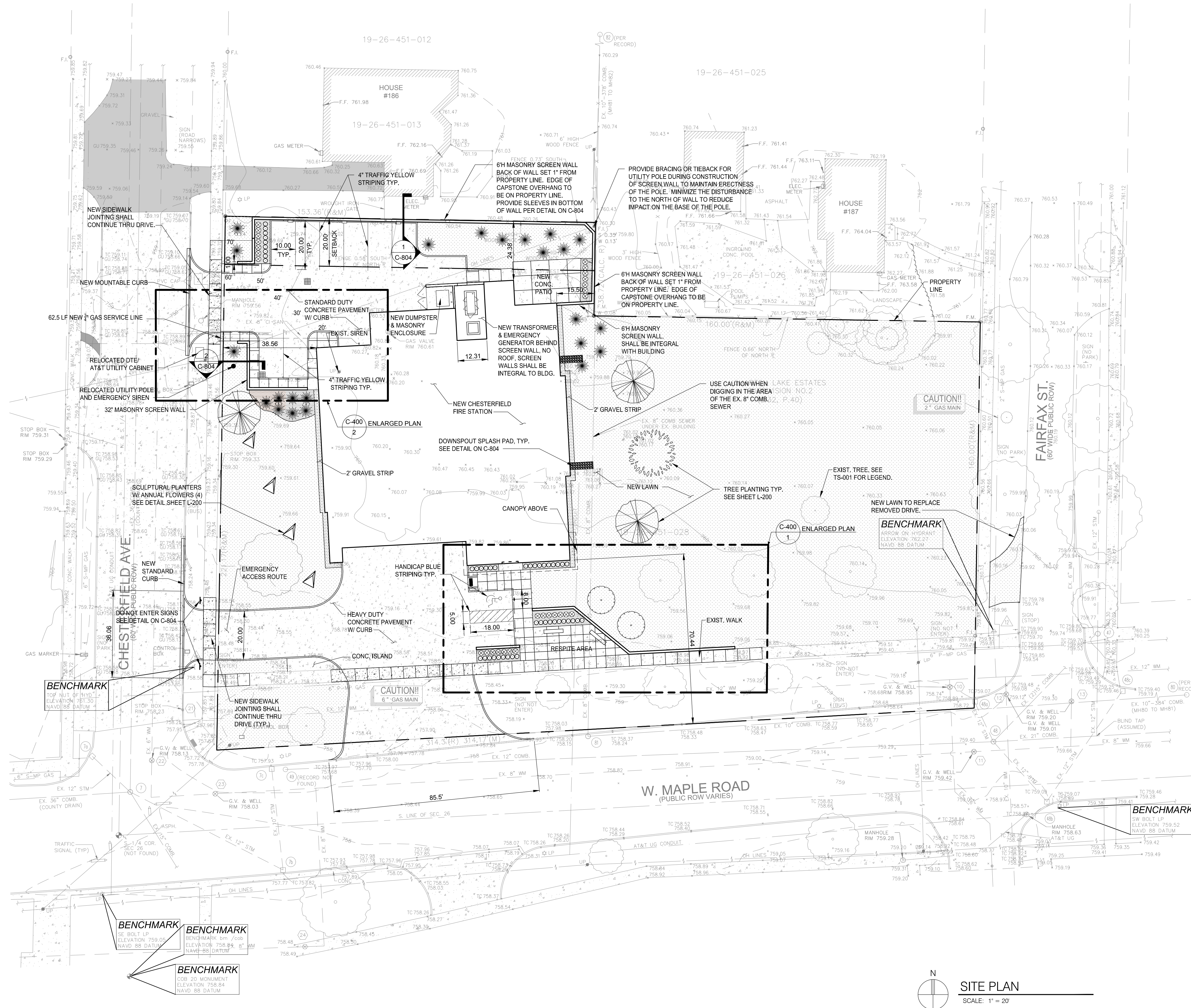
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Checked: CL
Approved: SEP

Sheet Title:
SITE PLAN

Project Number: 15566

Sheet Number: C-200



- NOTES:
1. SEE SHEET L-200 FOR LANDSCAPING AND PLANTINGS
 2. SEE SHEET C-210 FOR PAVING PLANS
 3. SEE SHEET C-220 FOR GRADING AND UTILITY PLANS
 4. SEE SHEET C-804 FOR SURFACE FEATURE DETAILS



J:\PROJECTS\15566 BIRMINGHAM FIRE STATION\CAD\05 CIVIL & SURVEY\C-200 SITE PLAN.DWG PLOT DATE: 12/22/2016 5:12:11 PM C. JOHNSON



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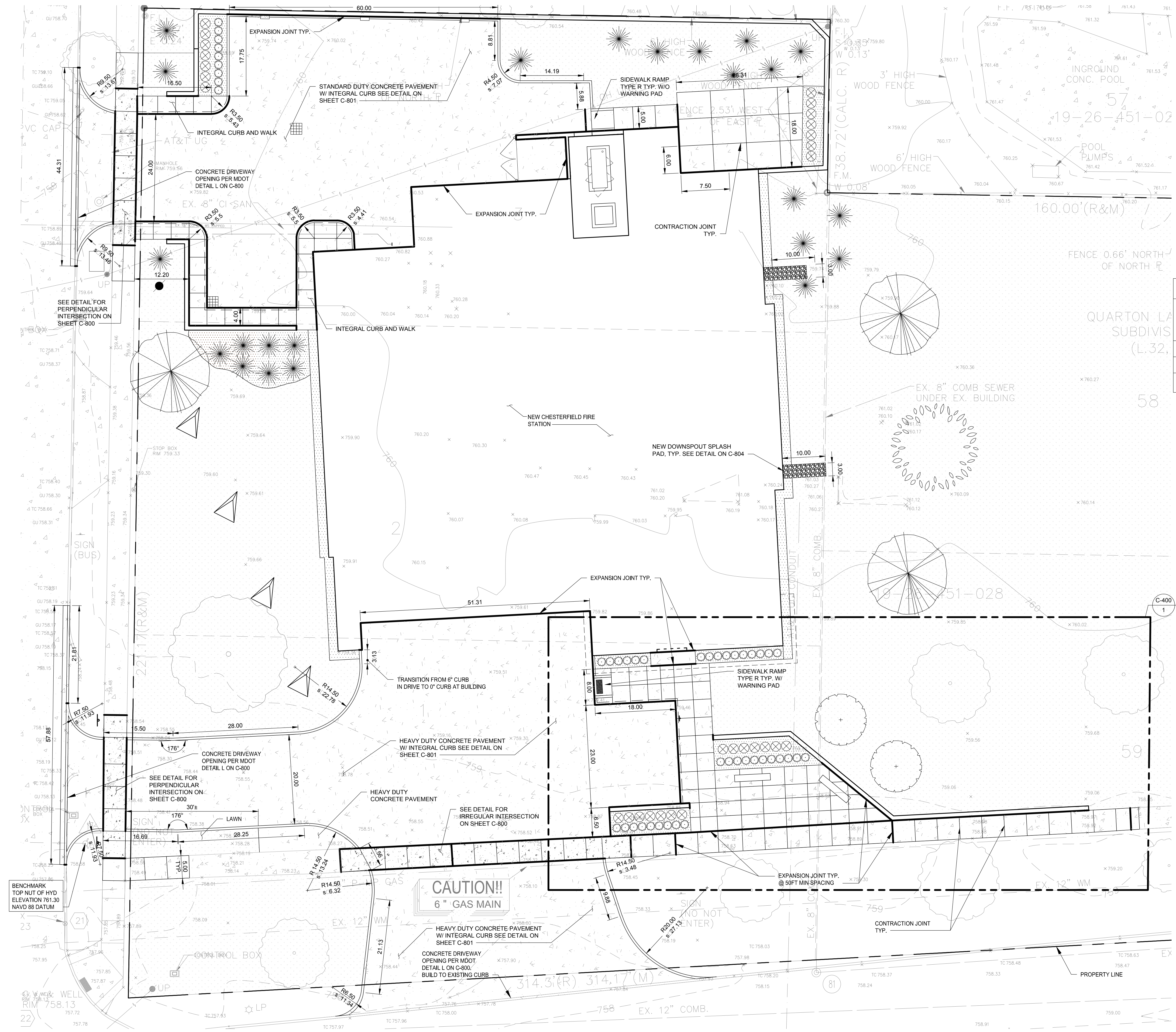
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Sheet Title:
PAVING PLAN

Project Number: **15566**

Sheet Number: **C-210**

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CONTRACTION JOINT SPACING TABLE		
SLAB THICKNESS (IN)	PANEL SIZE FOR MAX SIZE AGGREGATE LESS THAN 3/4" (FT.)	PANEL SIZE FOR MAX SIZE AGGREGATE 3/4" AND LARGER (FT.)
6	12	15
8	16	20

JOINTS SHALL BE LOCATED TO PROVIDE SQUARE PANELS OR RECTANGULAR (AT A RATIO OF 1.25 L : W MAX)

- NOTES:
1. ALL RADII ARE DIMENSIONED TO BACK OF CURB
 2. SEE SHEET C-800/C-801 FOR PAVING DETAILS
 3. SEE SHEET C-200 FOR STRIPING DETAILS
 4. SEE SHEET C-804 FOR SURFACE FEATURE DETAILS

PAVING PLAN
SCALE: 1" = 10'

J:\PROJECTS\15566 BIRMINGHAM FIRE STATION\CADD\05 CIVIL & SURVEY\C-210 PAVING PLAN.DWG PLOT DATE: 12/22/2016 4:59:29 PM CJOHNSON



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Novi, Michigan 48375

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Seal:

Date: 07/29/19 Issued For
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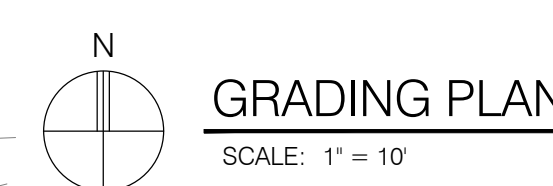
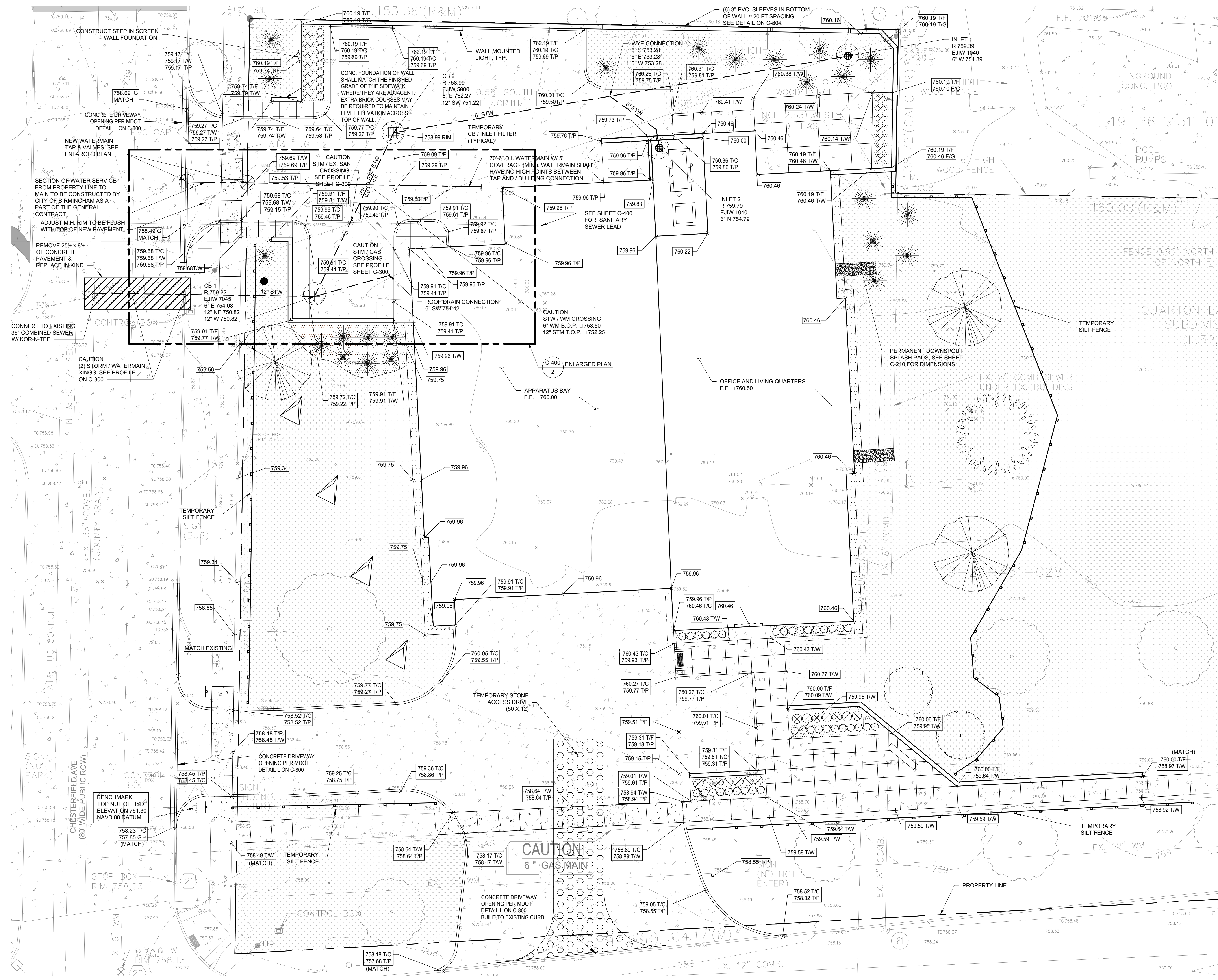
- NOTES:
- SEE SHEET C-300 FOR STORM SEWER PROFILES.
 - SEE SHEETS C-800 THRU C-806 FOR DETAILS.
 - ALL 12" STORM SEWER SHALL BE C-76, CL IV R.C.P. ALL 6" STORM SEWER SHALL BE SCH. 40 PVC. PROVIDE COMPACTED SAND BACKFILL.

Drawn: MJS
Checked: CL
Approved: SEP

Sheet Title:
**GRADING, UTILITY,
& SESC PLAN**

Project Number: 15566

Sheet Number: **C-220**



SCALE: 1" = 10'



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Corporate Headquarters
45650 Grand River Avenue
Novi, Michigan 48374
Ph: (248)349-4500 • Fax: (248)349-1429

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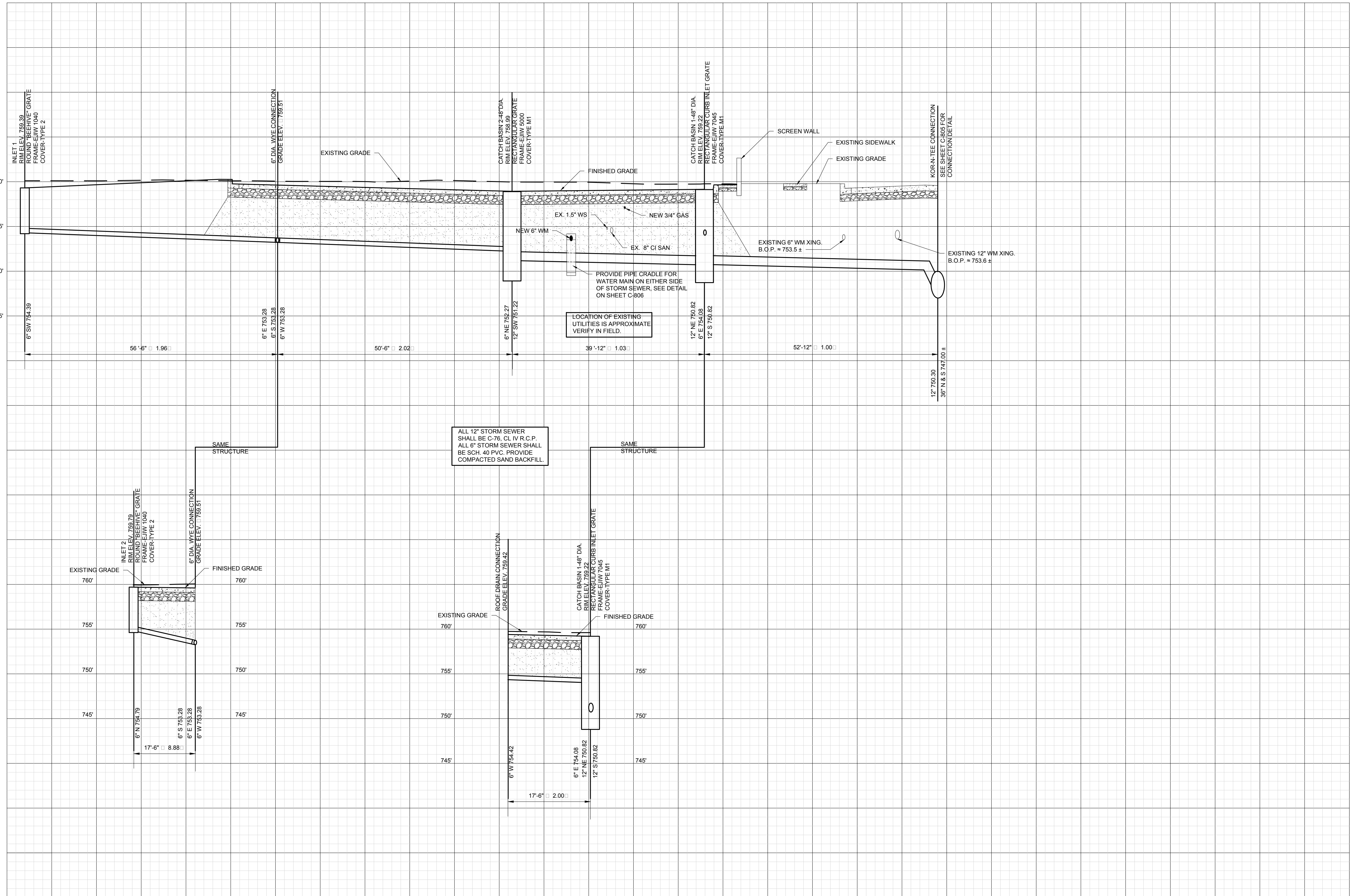
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Sheet Title:
PROFILES -
STORM SEWERS

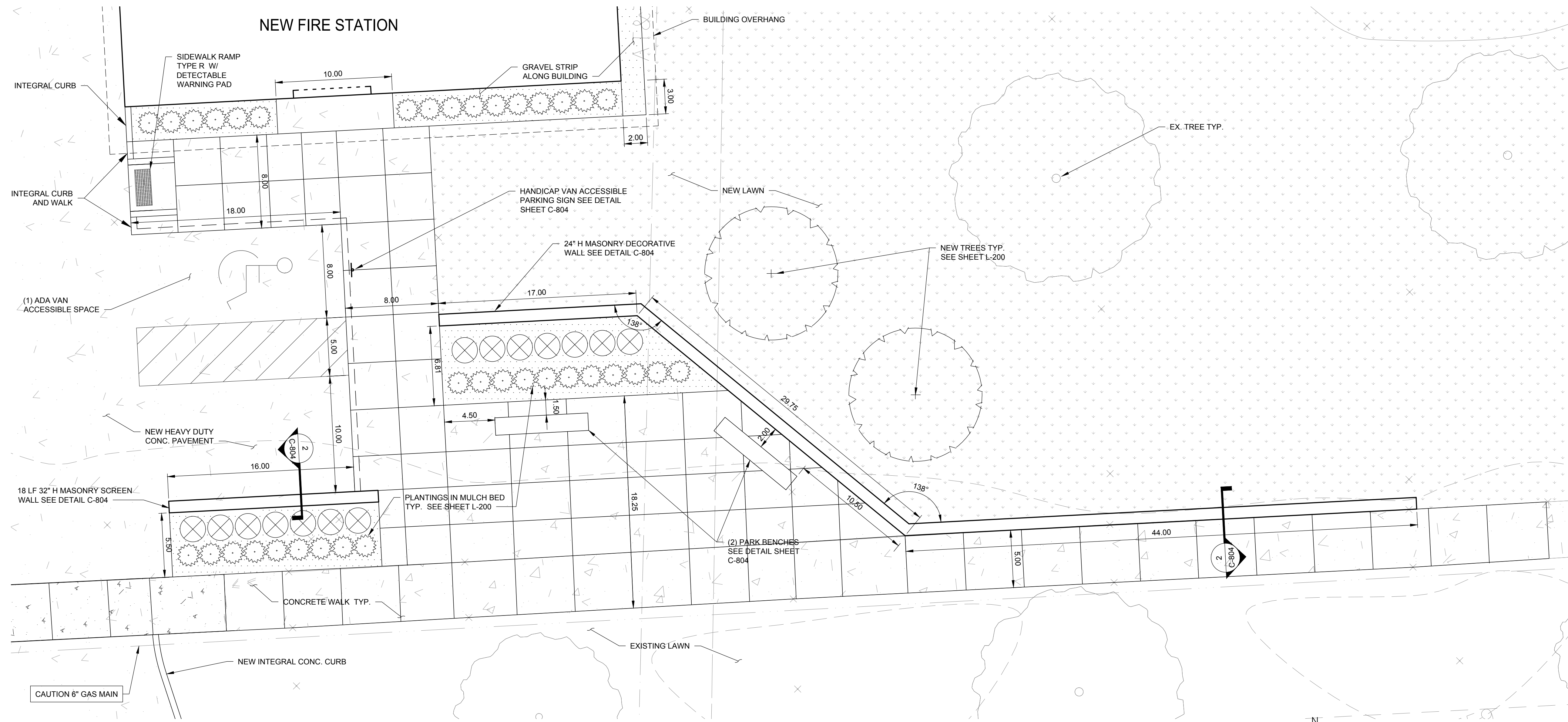
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Sheet Number: C-300

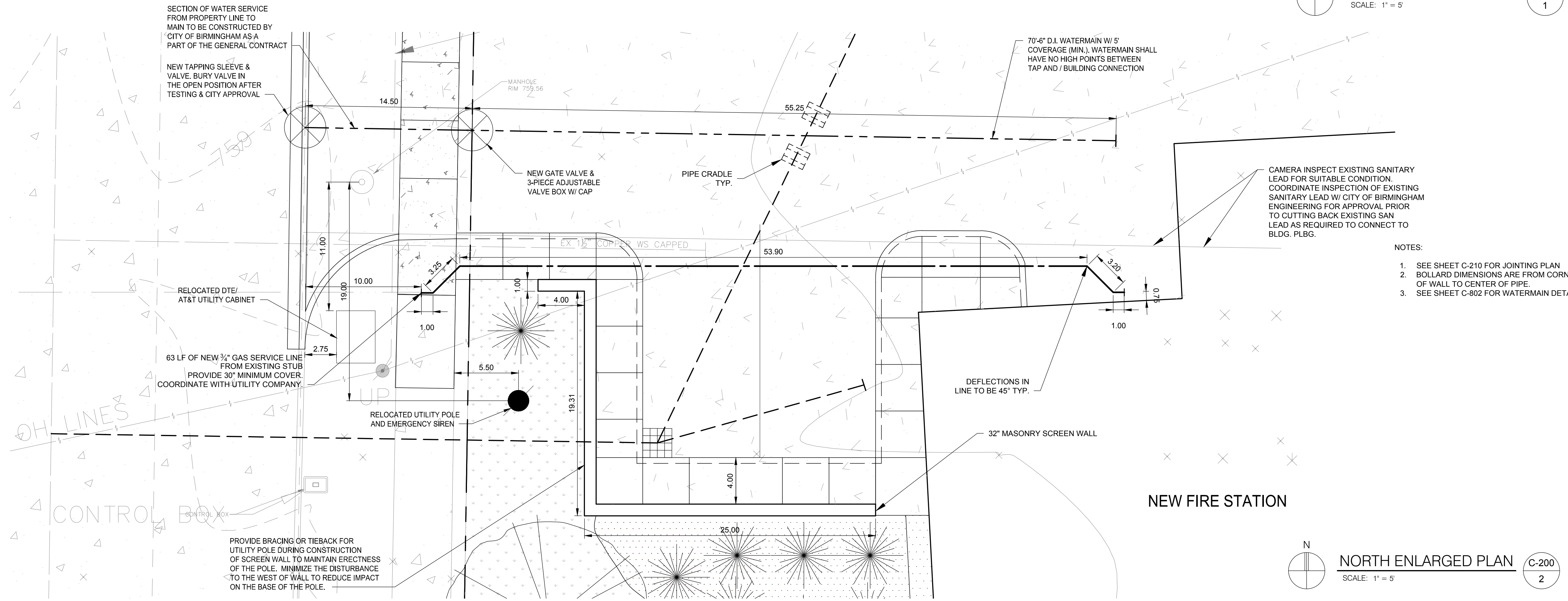
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SCALE:
HORIZONTAL SCALE: 1" □ 10'
VERTICAL SCALE: 1" □ 5'



SOUTH ENLARGED PLAN C-200
SCALE: 1" = 5'



NORTH ENLARGED PLAN C-200
SCALE: 1" = 5'

Key Plan: No Scale

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Sheet Title:
ENLARGED PLANS

Project Number: **15566**

Sheet Number: **C-400**

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Novi, Michigan 48374
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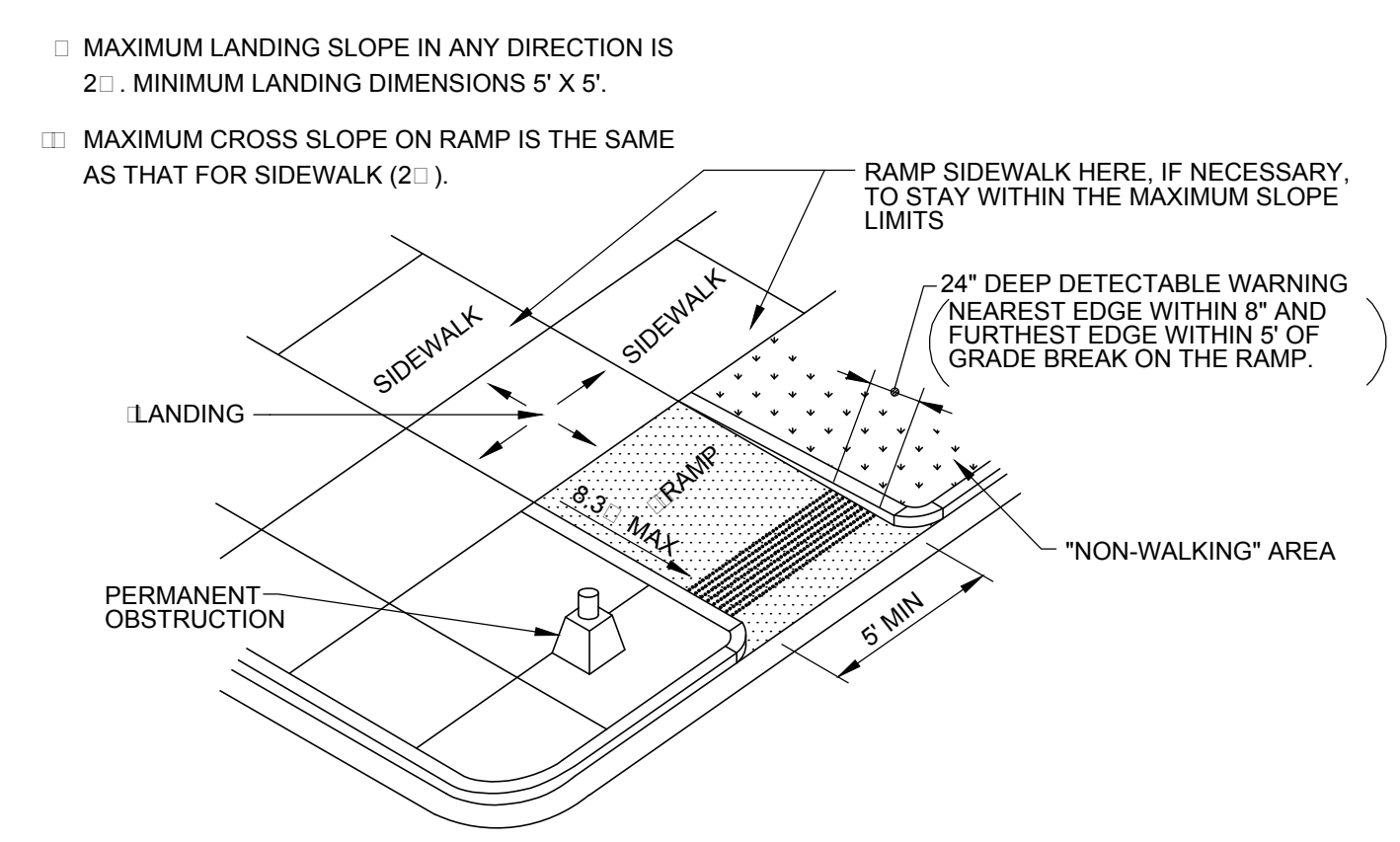
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Sheet Title:
PAVING DETAILS

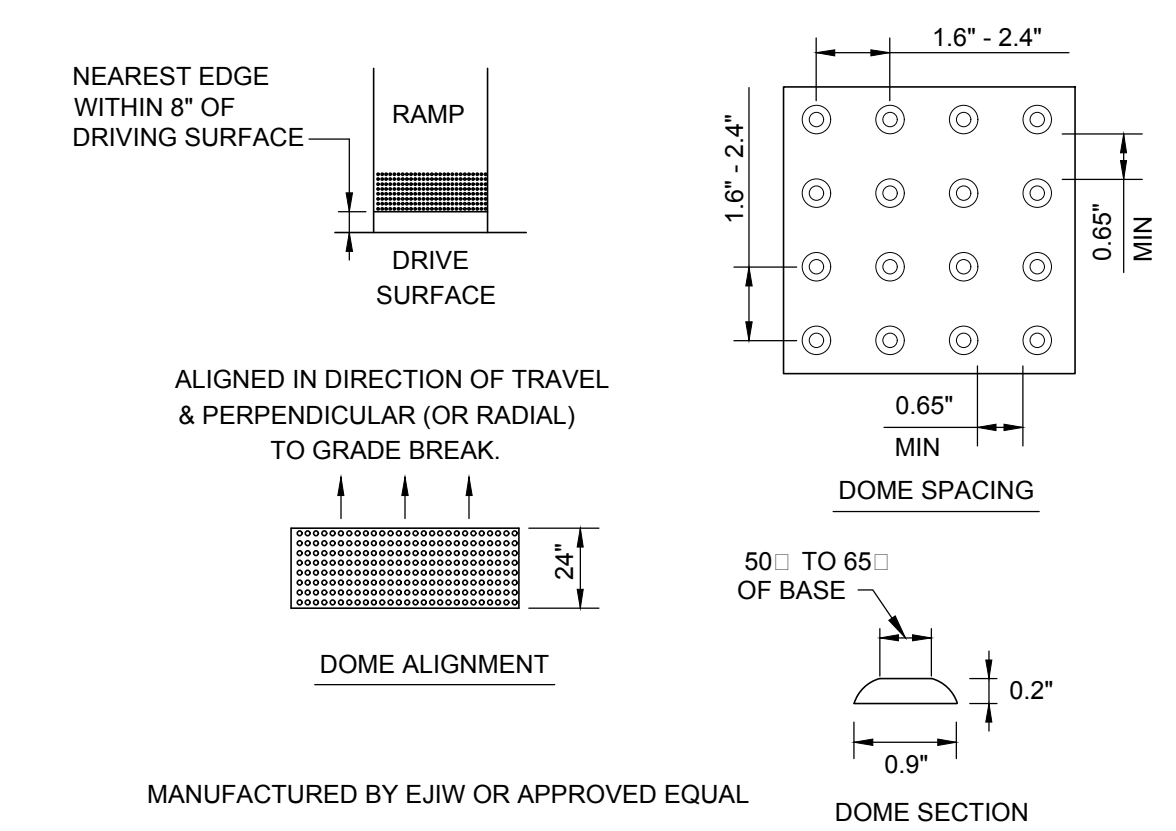
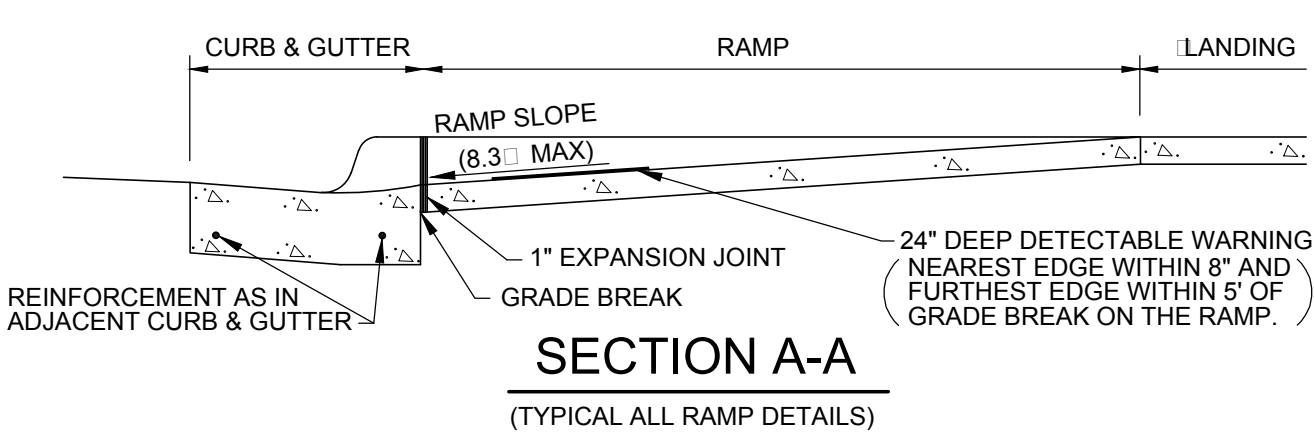
Project Number: 15566

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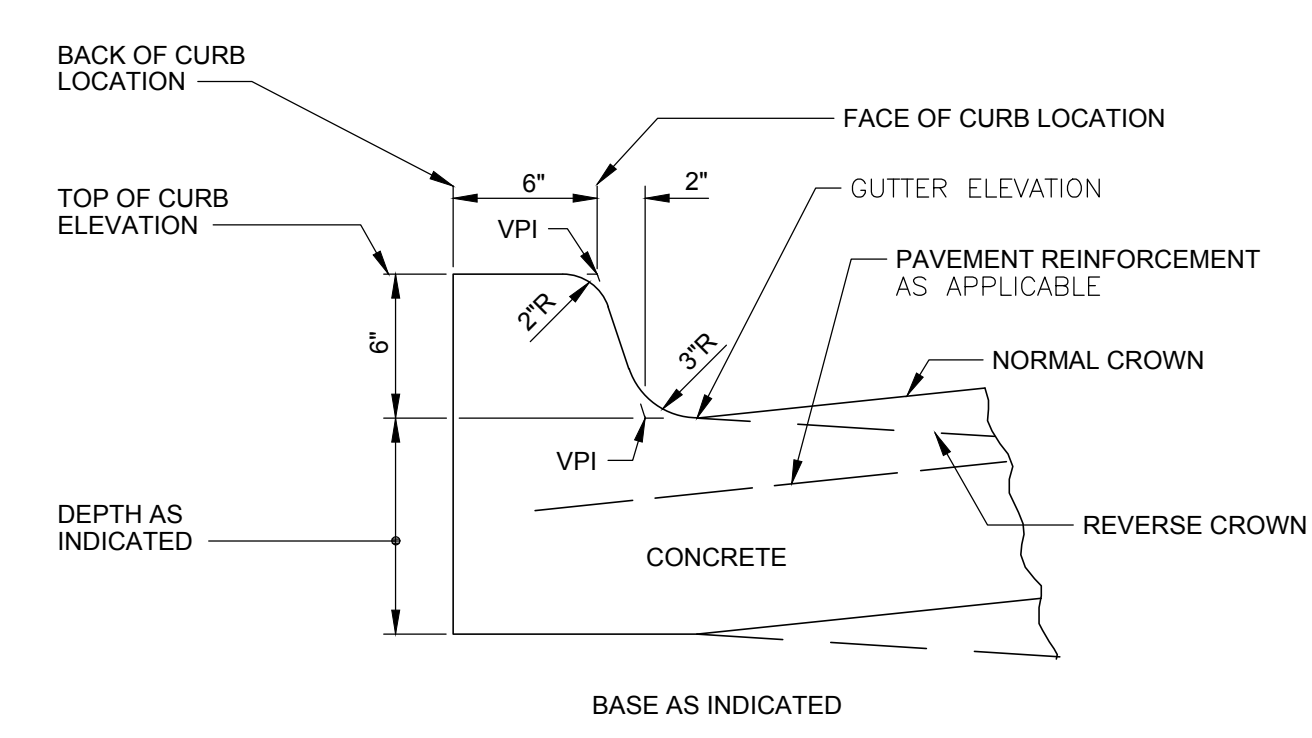
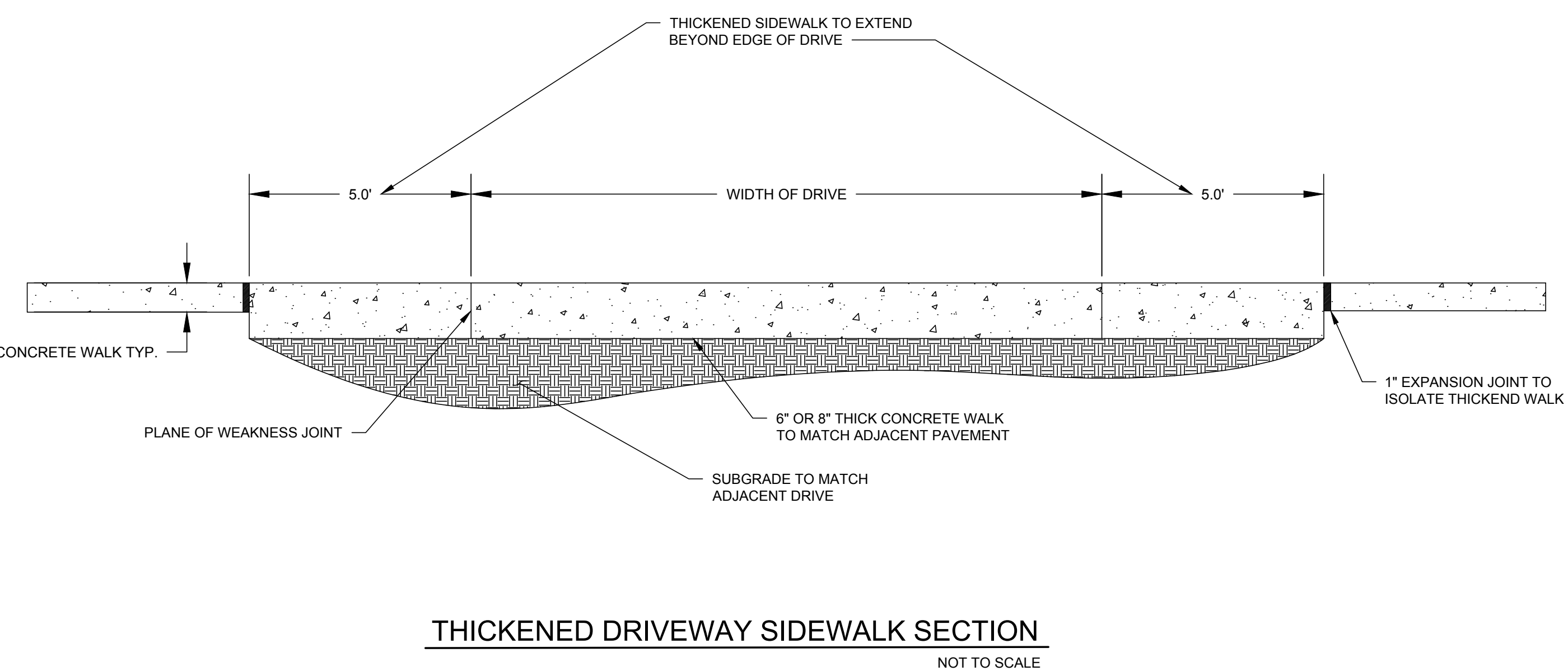
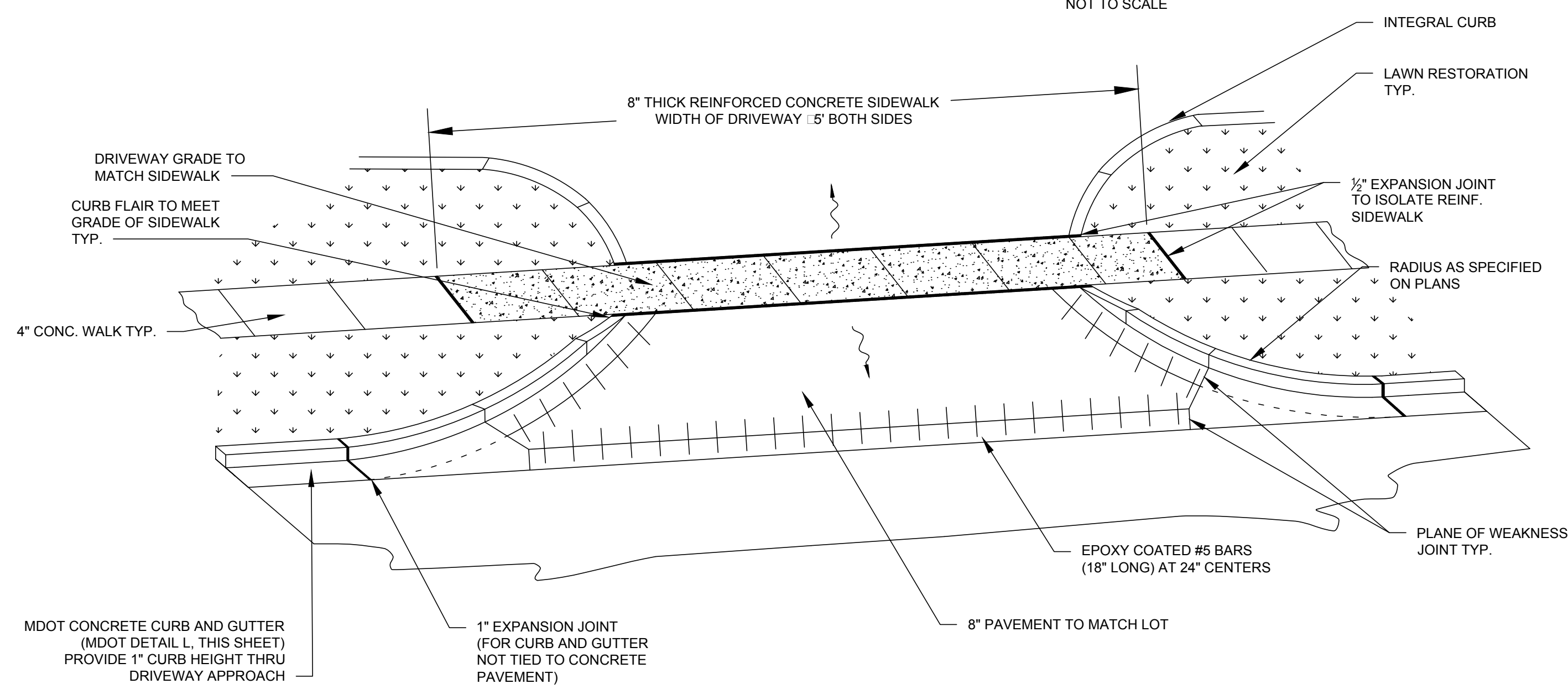
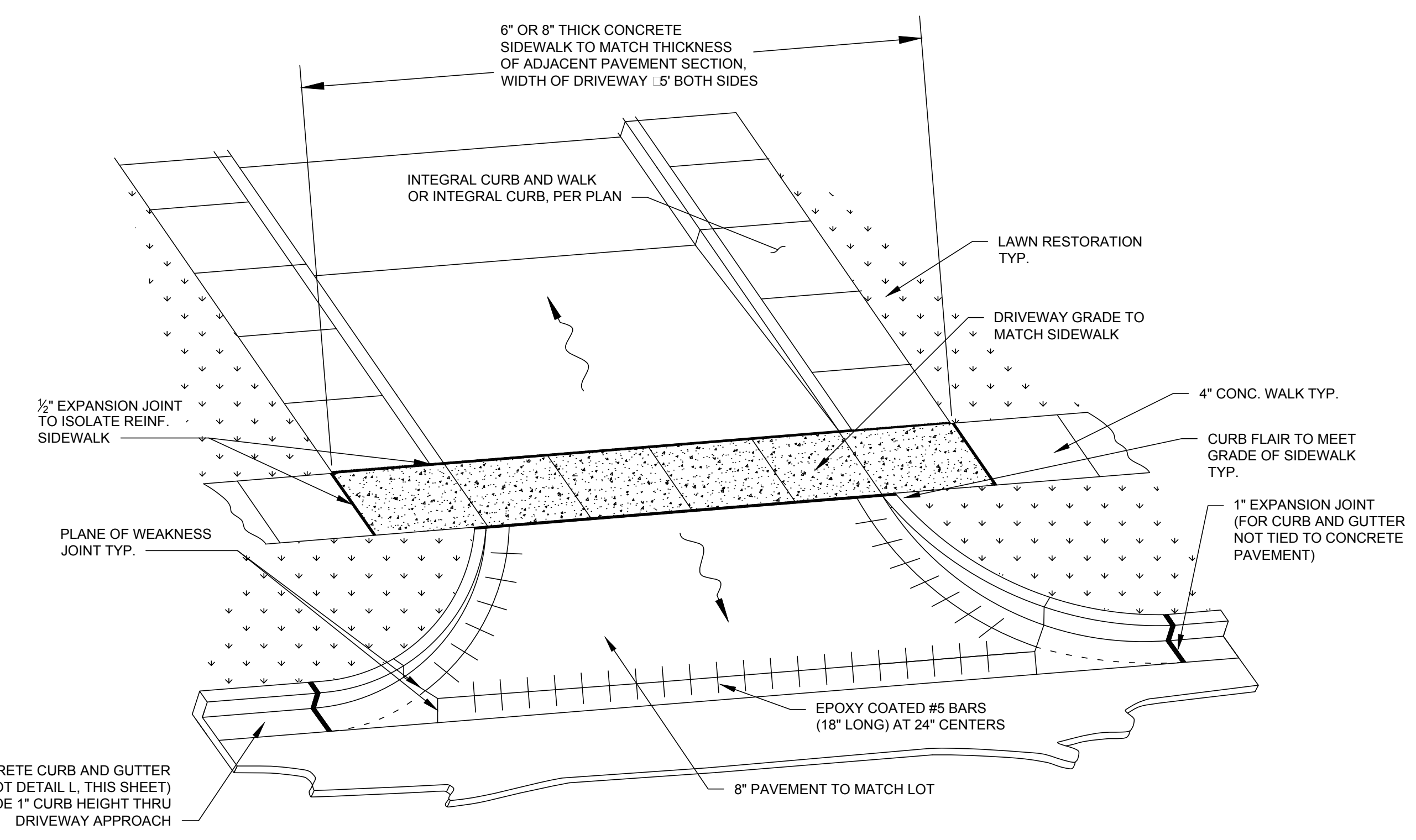
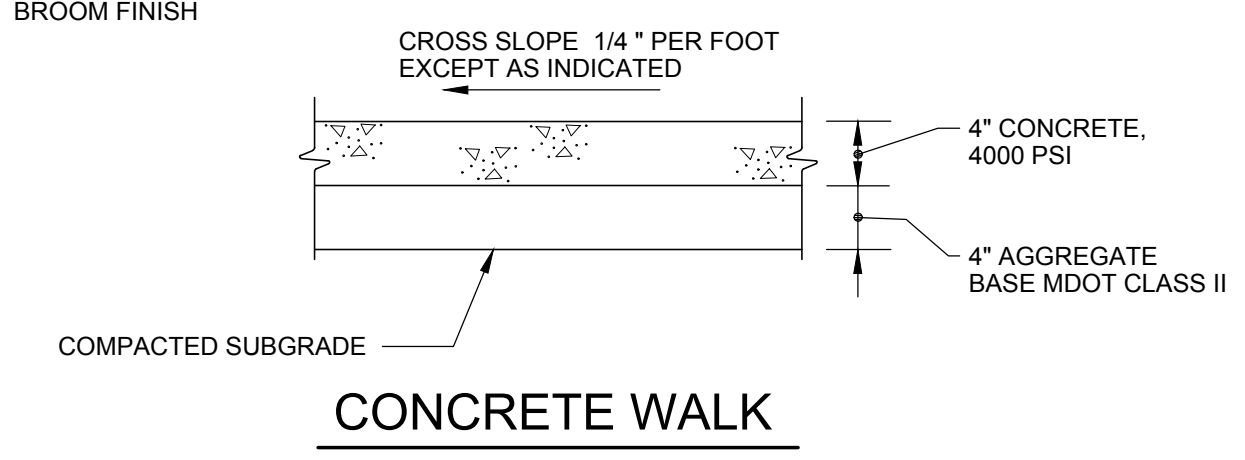


SIDEWALK RAMP TYPE R
(ROLLED SIDES)

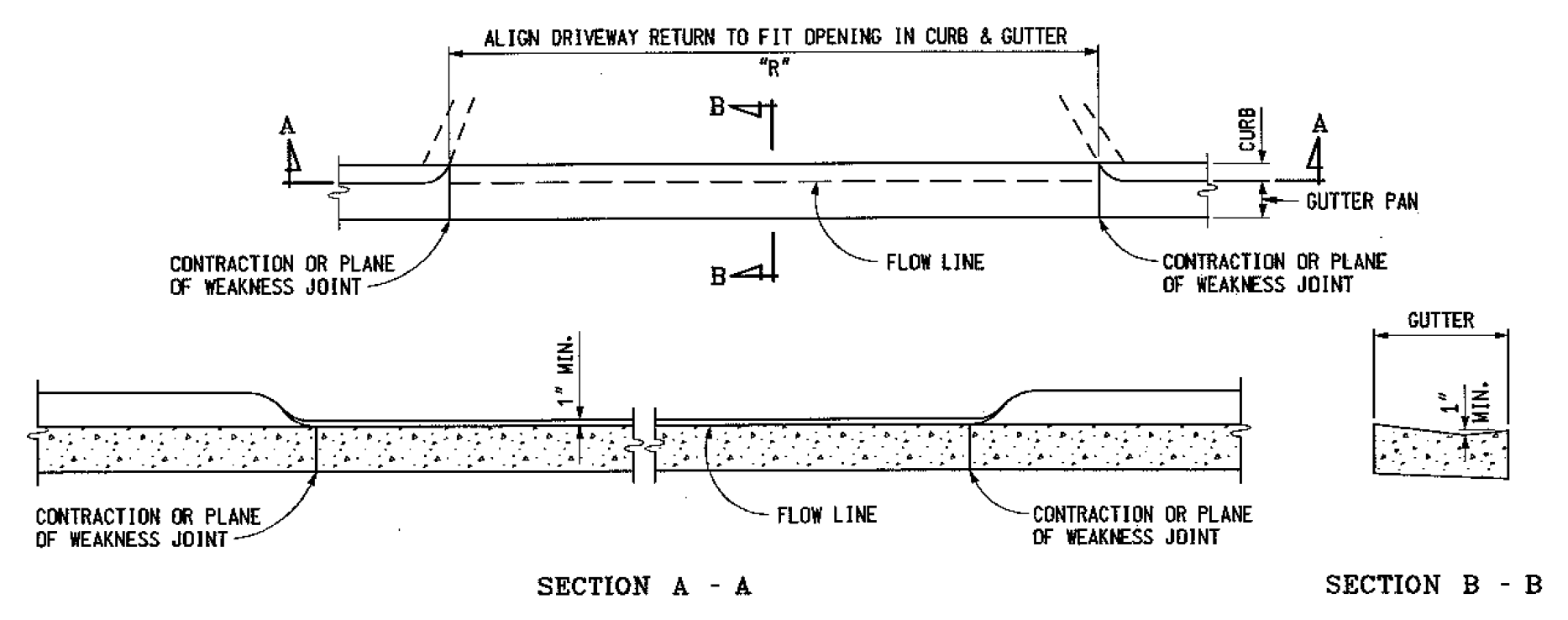
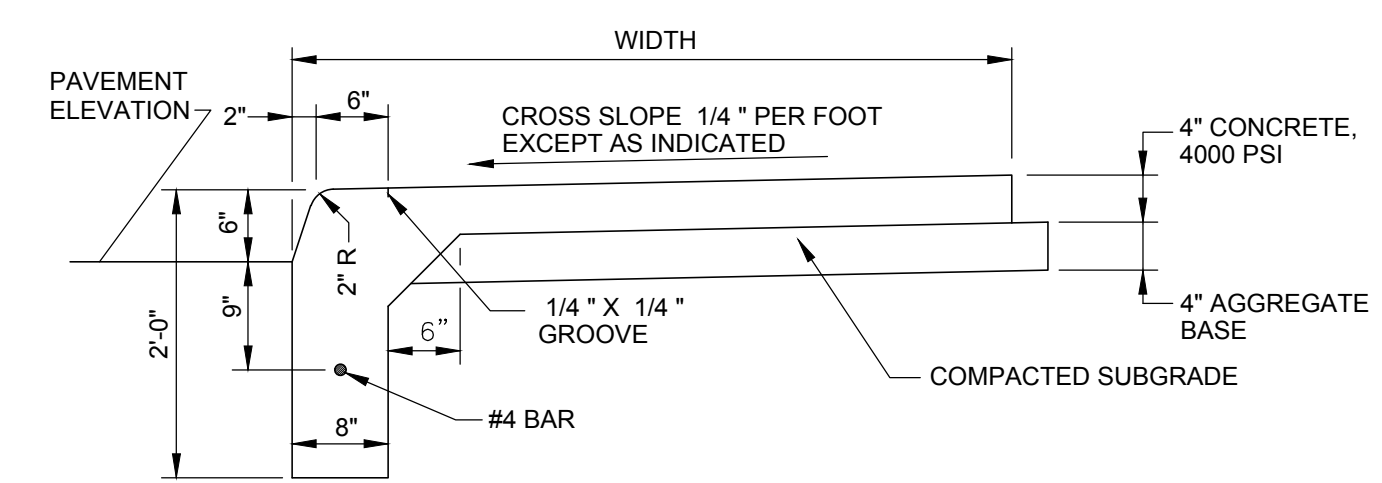


DETECTABLE WARNING DETAILS

- NOTES:
- EXPANSION JOINTS: 1/2" WIDE JOINT FILLER, FULL DEPTH:
 - AT 50 FOOT INTERVALS TRANSVERSELY.
 - AROUND EMBEDDED ITEMS SUCH AS LIGHT BASES.
 - AT ABUTTING STRUCTURES SUCH AS BUILDINGS OR CURBS.
 - CONTRACTION (PLANE OF WEAKNESS) JOINTS: 1/4" WIDE, 1" DEEP GROOVE, ARRANGE TO FORM PANELS 6' MAXIMUM IN EITHER DIRECTION.
 - TACTILE WARNING SURFACE: PROVIDE NEAR TOP OF STAIRS AND RAMP.
 - BROOM FINISH



- NOTES:
- EXPANSION JOINTS: 1/2" WIDE JOINT FILLER, FULL DEPTH:
 - AT 50 FOOT INTERVALS TRANSVERSELY.
 - AROUND EMBEDDED ITEMS SUCH AS LIGHT BASES.
 - AT ABUTTING STRUCTURES SUCH AS BUILDINGS OR CURBS.
 - CONTRACTION (PLANE OF WEAKNESS) JOINTS: 1/4" WIDE, 1" DEEP GROOVE, ARRANGE TO FORM PANELS 6' MAXIMUM IN EITHER DIRECTION.
 - TACTILE WARNING TEXTURE: PROVIDE ON RAMP AND NEAR TOP OF STAIRS.



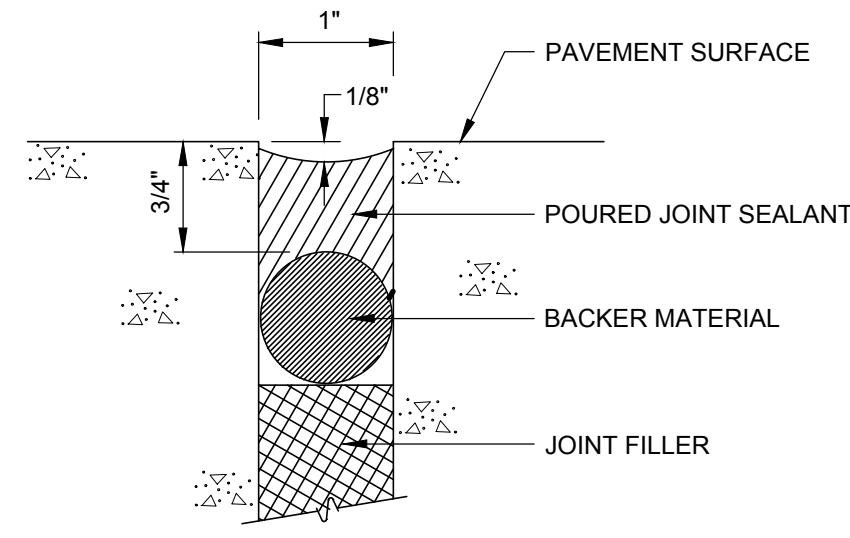
CONCRETE DRIVEWAY OPENING, MDOT DETAIL L
NOT TO SCALE

NOTE:
CONSTRUCT STREET CURB & GUTTER STRAIGHT THROUGH FIRST, THEN BUILD APPROACH TO UP TO STREET CURB.

INTEGRAL CURB

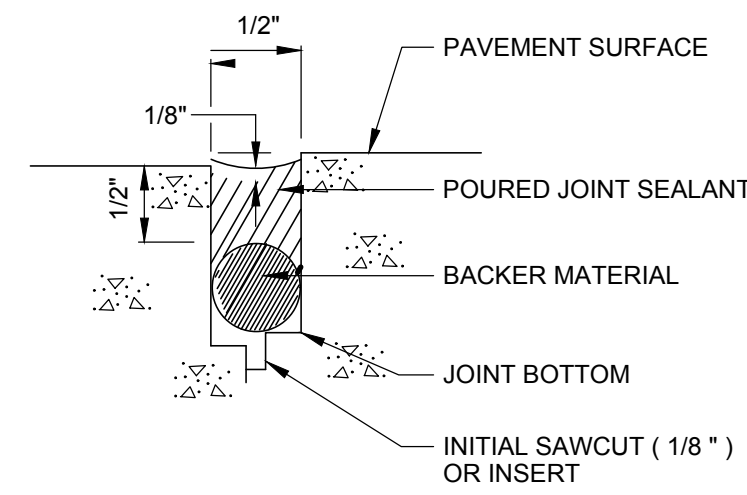
INTEGRAL CURB & WALK

NOTE:
RELIEF GROOVE: SAW CUT, INSERT, OR FORMED GROOVE, 1/8" MAX X 2 1/2" MIN.
SAW CUT 1/2" MIN INTO JOINT FILLER.

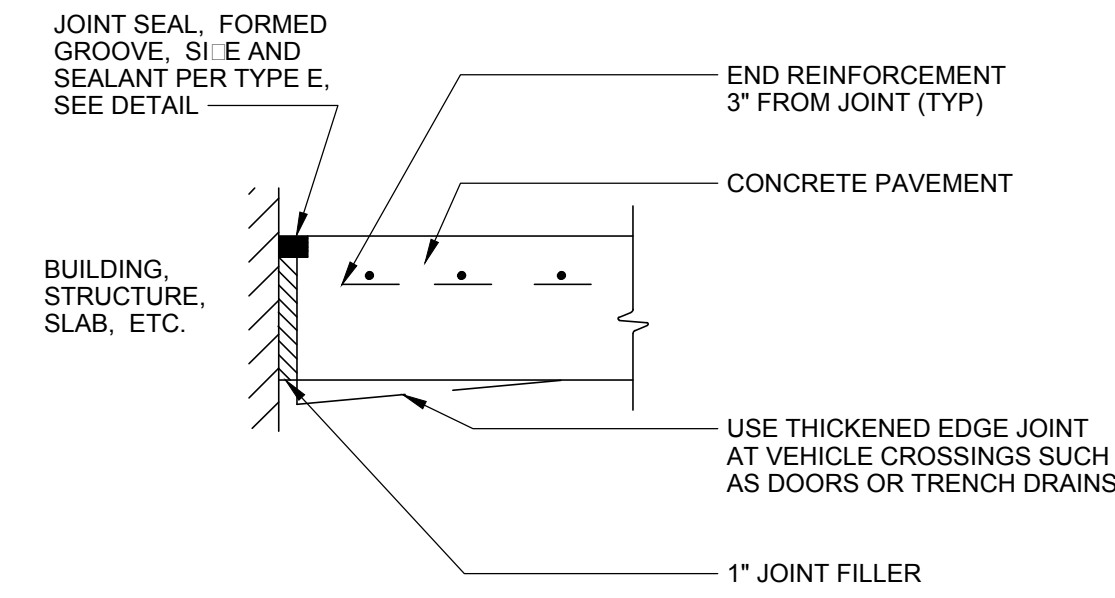


TYPE E
JOINT SEAL

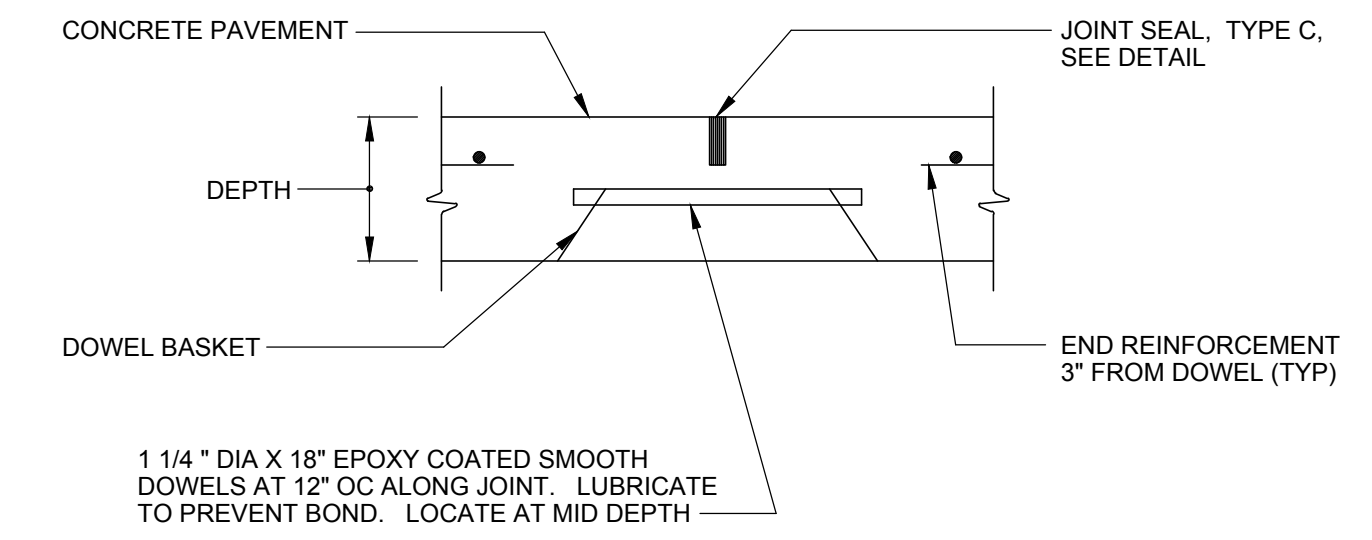
NOTE:
RELIEF GROOVE: SAW CUT, INSERT, OR FORMED GROOVE, 1/8" WIDE X 2 1/2" MIN.



TYPE C
JOINT SEAL



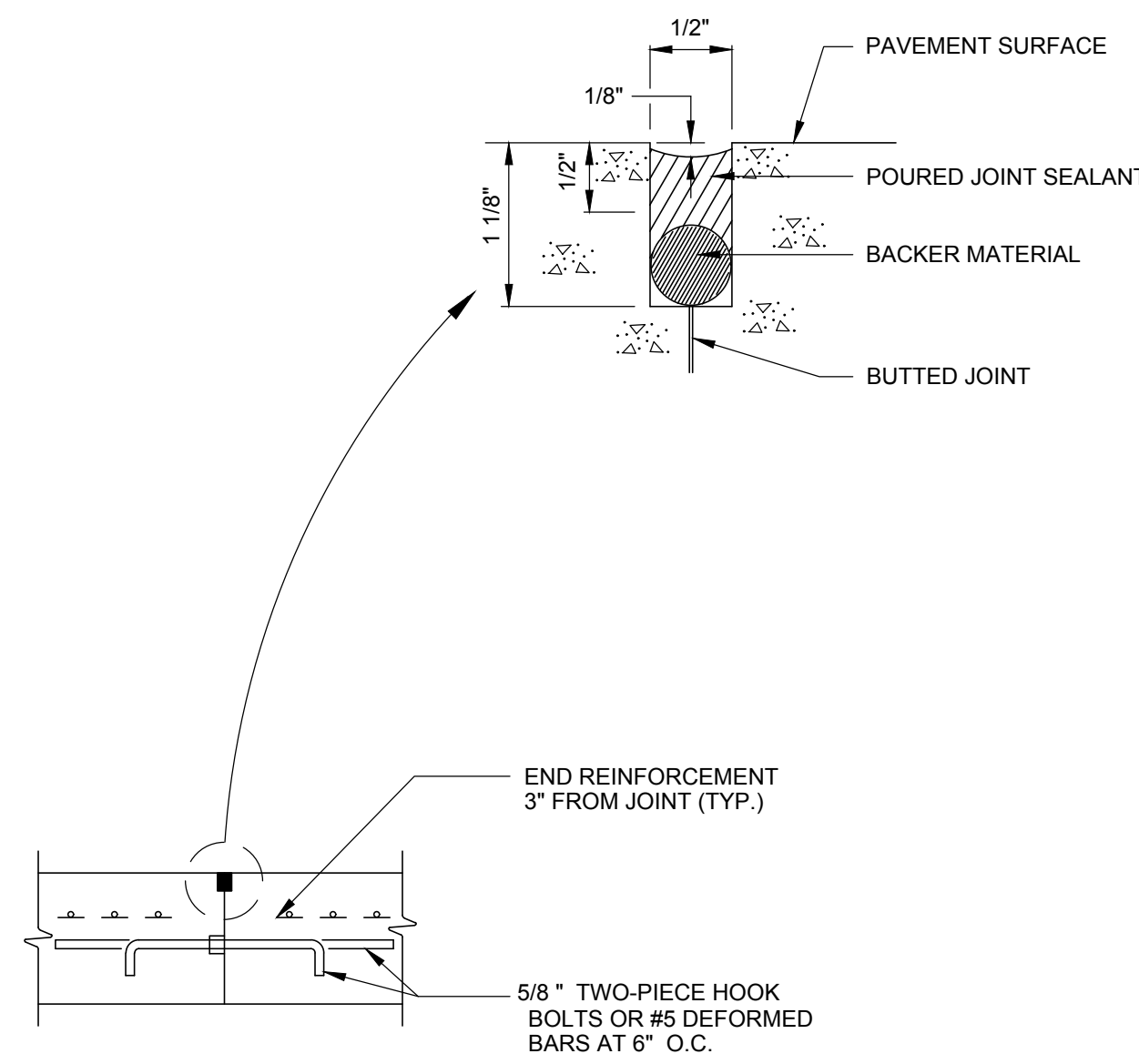
EDGE EXPANSION JOINT



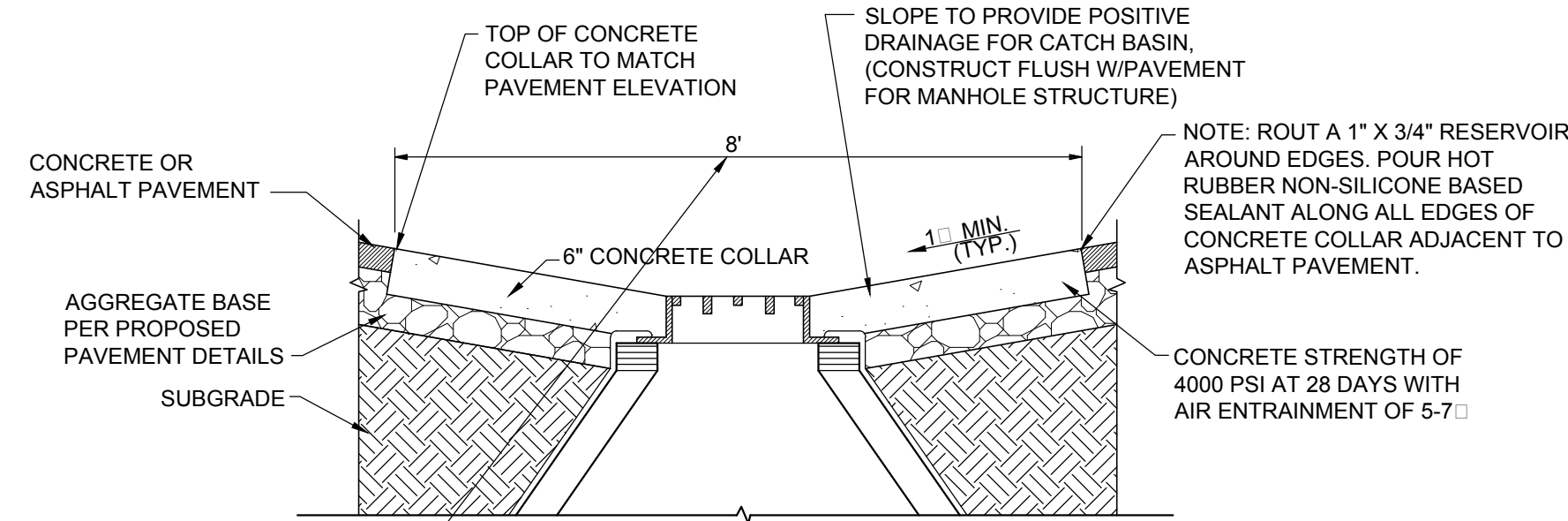
CONTRACTION JOINT

NOTES:

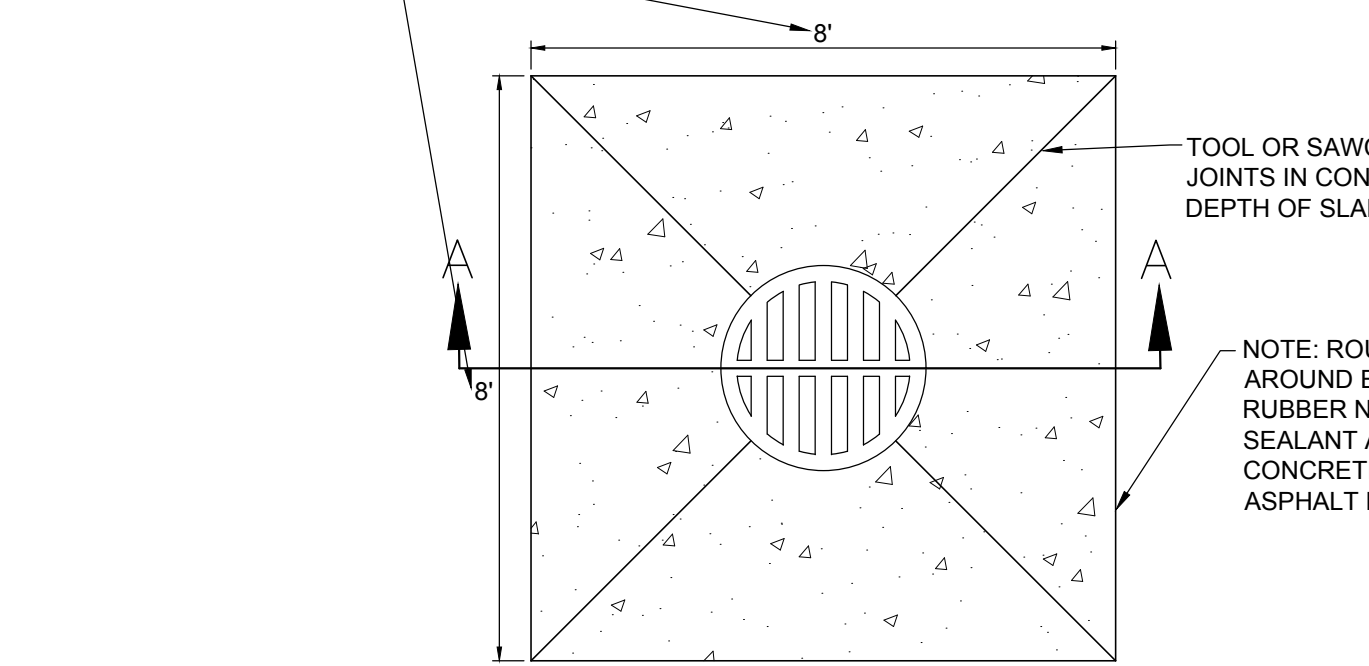
- NORMALLY END PAVING AT PLANNED JOINTS.
- IF PAVING IS UNAVOIDABLY INTERRUPTED MORE THAN 1/2 HOUR BETWEEN PLANNED JOINTS:
 - WITHIN 10' OF JOINT BEHIND, REMOVE CONCRETE, MODIFY TO TYPE "E".
 - WITHIN 10' OF JOINT AHEAD, REMOVE CONCRETE TO 10' FROM JOINT AHEAD AND PLACE THIS JOINT.
 - MORE THAN 10' FROM A JOINT, PLACE THIS JOINT.



PAVING INTERRUPTION

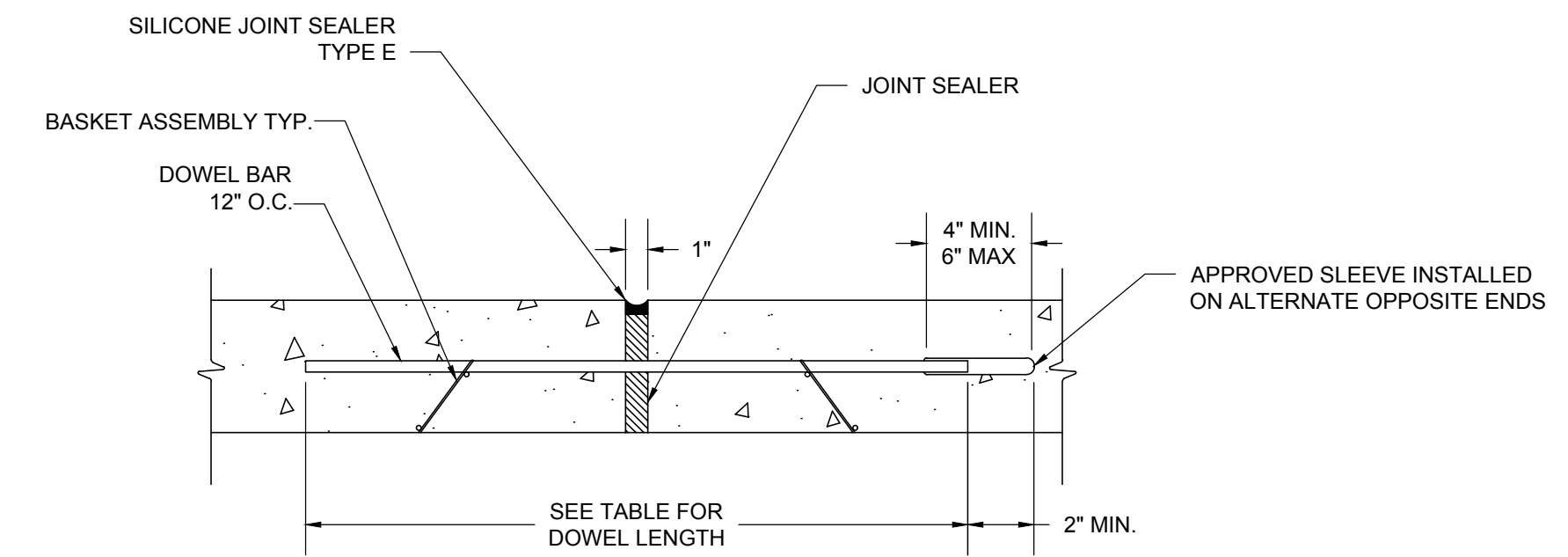


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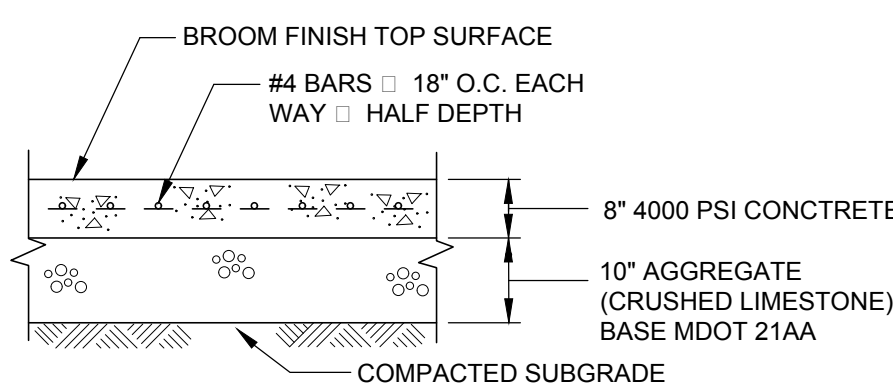
CONCRETE COLLAR AT CATCH BASIN DETAIL

NOT TO SCALE

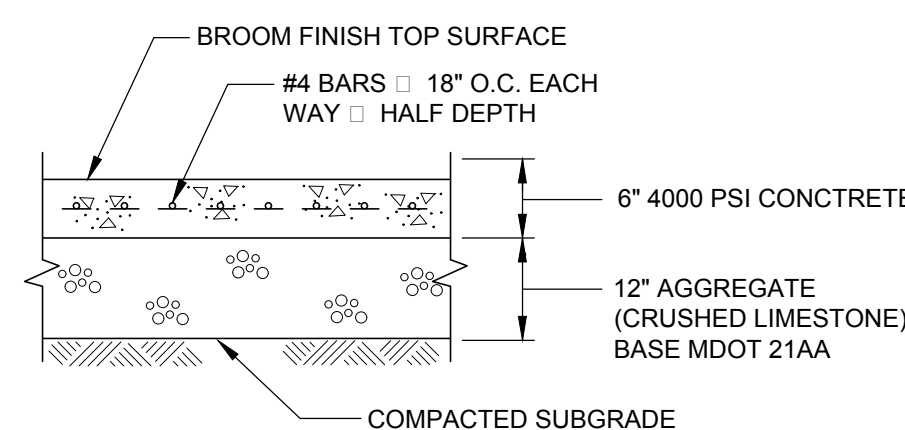


LONGITUDINAL TIE BAR LENGTH		
SLAB THICKNESS	TIE BAR DIA.	TIE BAR LENGTH
8 1/2" OR LESS	1/2"	30"
9" OR ABOVE	5/8"	30"

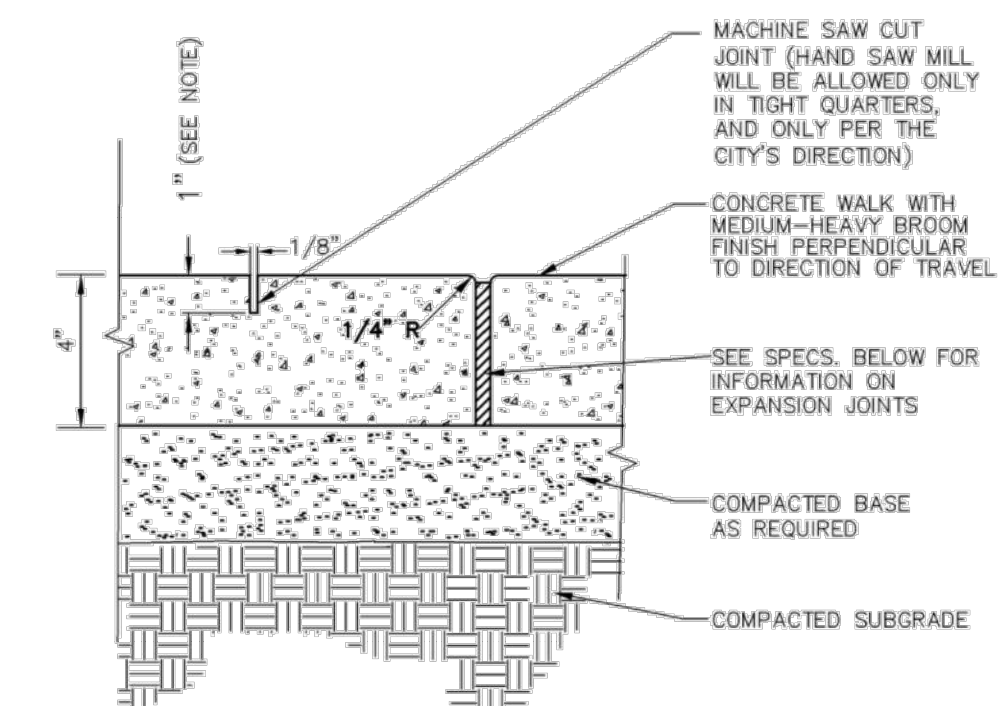
EXPANSION JOINT



HEAVY DUTY CONCRETE PAVEMENT



STANDARD DUTY CONCRETE PAVEMENT



- NOTE:
1. SAWCUT CONTROL JOINTS - 2" DEPTH, EVERY 100 SF OF PAVING MAX.
2. SQUARE PATTERN SAWCUT JOINTS, 1" DEPTH, APPROX. EVERY 2'-5"x2'-5" GRID, AS SHOWN.
3. PROVIDE EXPANSION JOINTS EVERY 400 SF OF PAVING MAX.
- EXPANSION JOINT MATERIAL SPECS:
1. EXPANSION JOINT MATERIAL: RESILIENT, NON-EXTRUDING TYPE PREMOLDED BITUMINOUS IMPREGNATED FIBERBOARD.
2. SEALANT BACKER ROD: COMPRESSIBLE ROD STOCK OF POLYETHYLENE FOAM OR OTHER FLEXIBLE, PERMANENT, DURABLE NON-ABSORPTIVE MATERIAL AS RECOMMENDED FOR COMPATIBILITY BY SEALANT MANUFACTURE. TEMPORARILY INSTALL ABOVE FIBER BOARD TO CREATE SPACE FOR JOINT SEALANT AT THE APPROPRIATE GRADE. REMOVE PRIOR TO INSTALLING JOINT SEALANT.
3. JOINT SEALANT: TWO PART POLYSULFIDE SEALANT; SELF-LEVELING, LIGHT GRAY COLOR. SUBMIT COLOR SAMPLE FOR APPROVAL. FEDERAL SPECIFICATIONS TT-5-0022E, TYPE 1, DOW CORNING #780 OR EQUAL. INSTALL AFTER REMOVING BACKER ROD TO COMPLETELY COVER FIBER BOARD.

SAWCUT AND EXPANSION JOINT
DETAIL FOR CONCRETE SIDEWALK

N.T.S.



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Client:
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Project:
BIRMINGHAM
FIRE STATION No. 2

1600 WEST MAPLE
BIRMINGHAM, MI 48009

Scale:

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Sheet Title:
PAVING DETAILS

Project Number: 15566

Sheet Number: C-801

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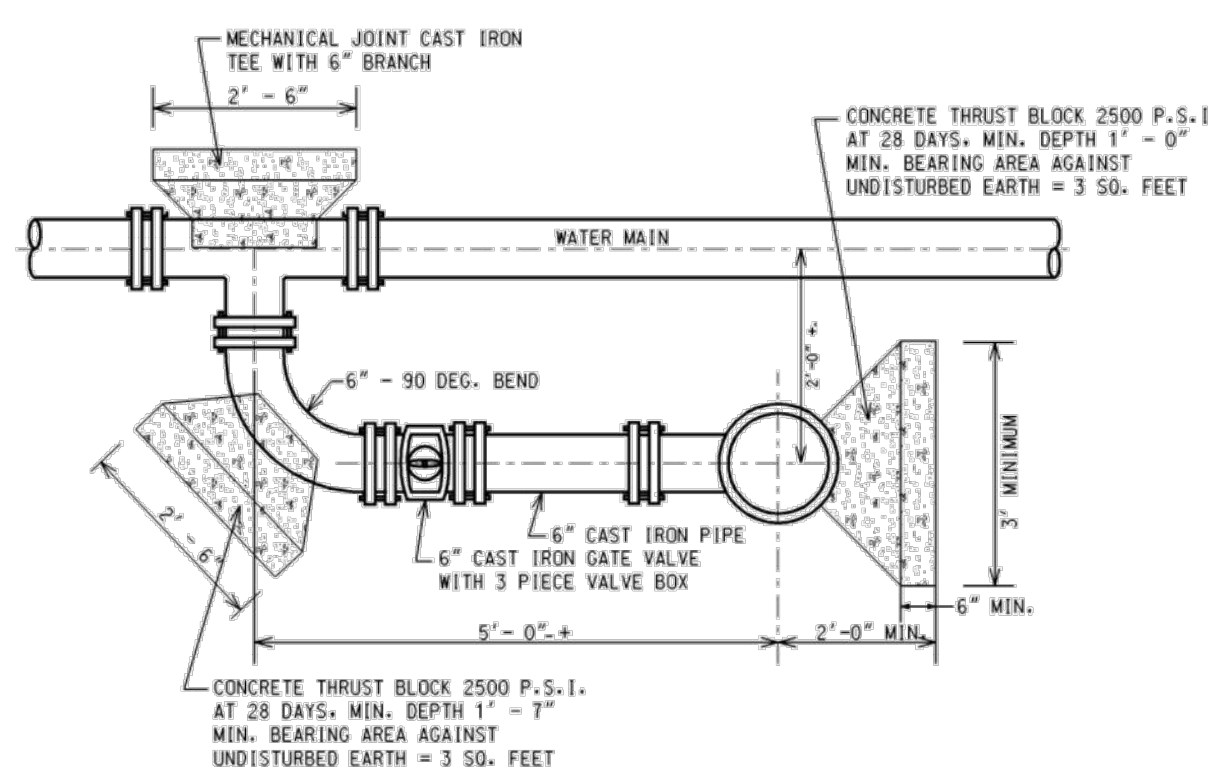
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Approved: SEP

Sheet Title:
CITY OF
BIRMINGHAM
STANDARD WATER
DETAILS

Project Number: 15566

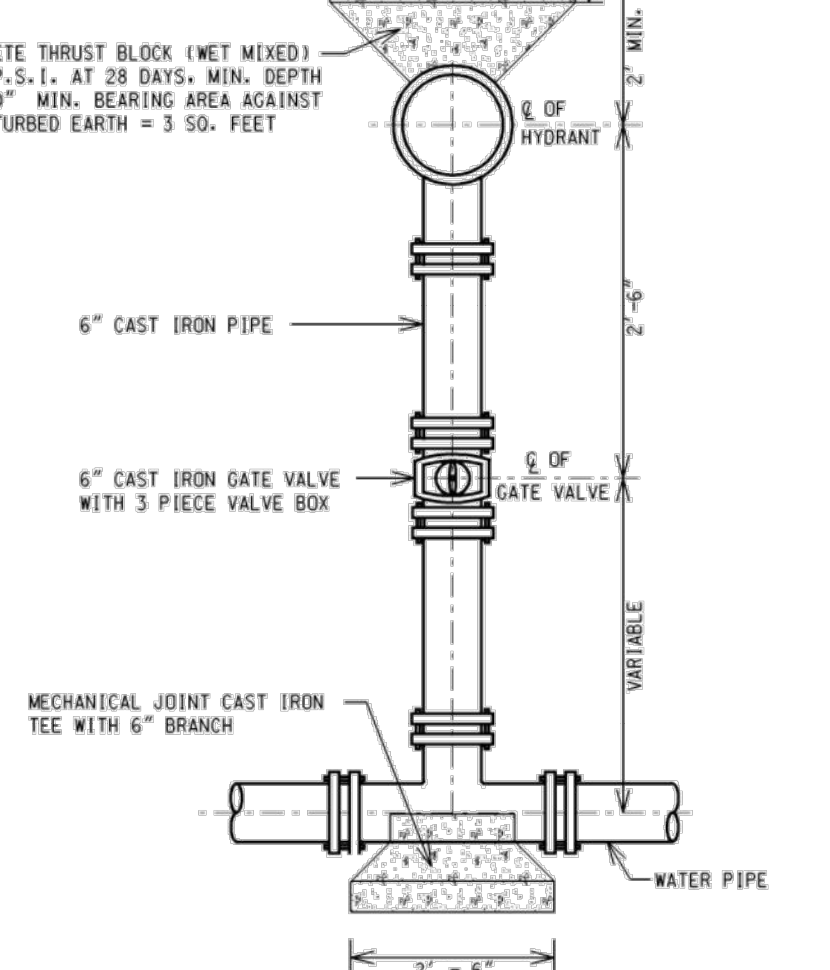
Sheet Number: C-802



"L" HYDRANT CONNECTION

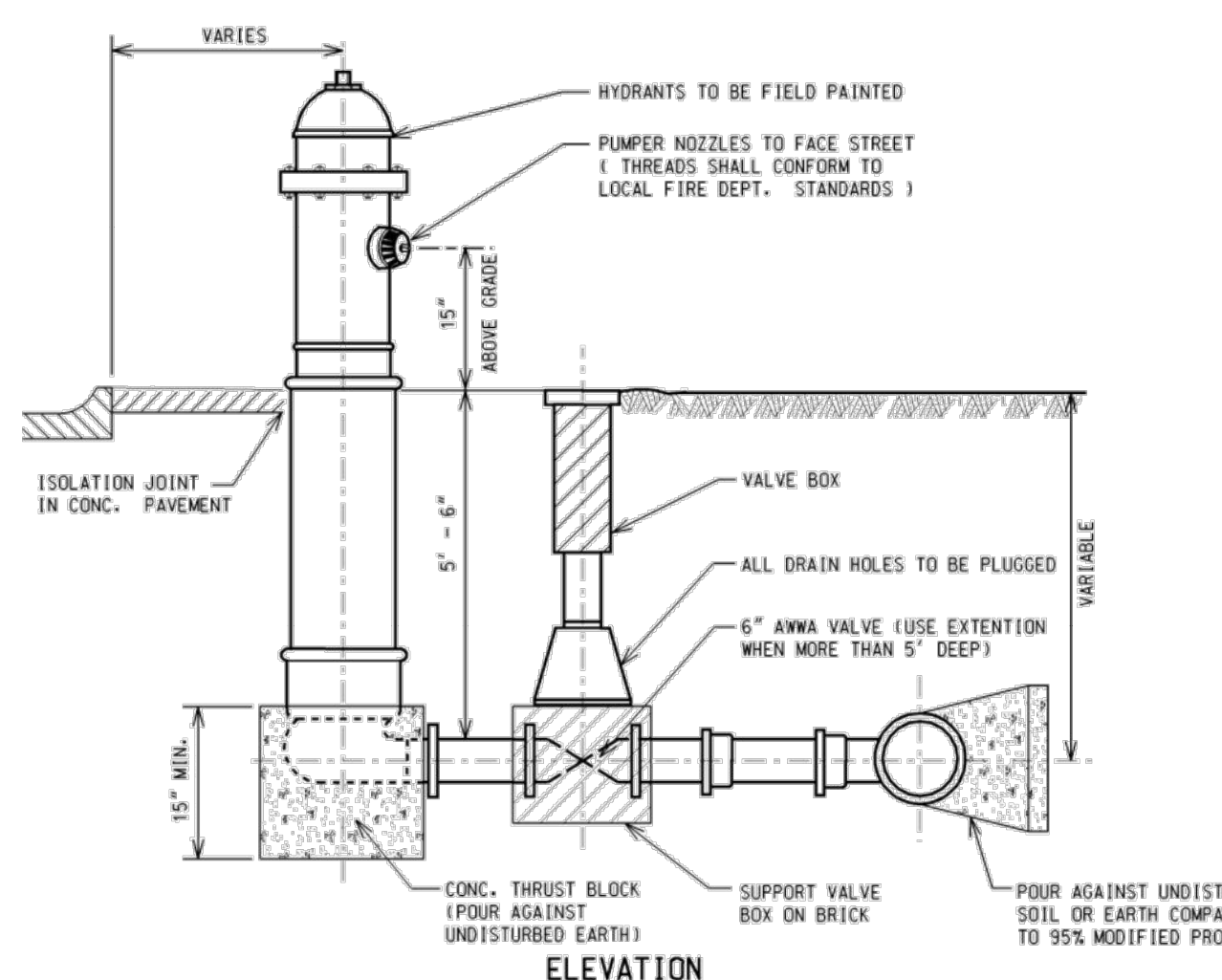
NO SCALE
W-9

NOTE: FOR CONSTRUCTION OF NEW FIRE HYDRANT TO EXISTING "L" WATERMAIN, USE 6" TAPPING SLEEVE VALVE & BOX TO MAKE CONNECTION, AND DELETE 6" CAST IRON GATE VALVE WITH 3 PIECE VALVE BOX AS SHOWN ON DETAIL.

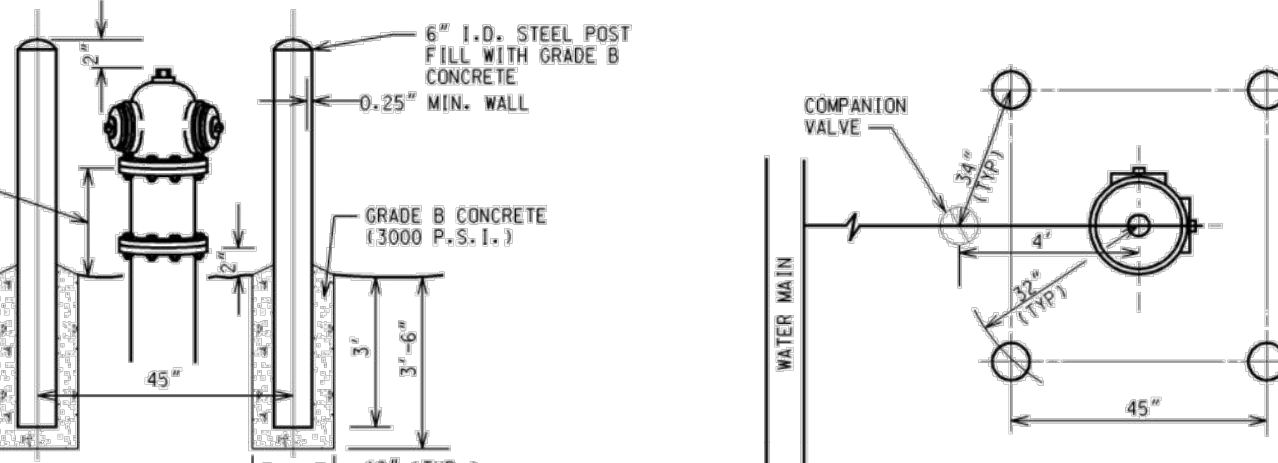


STRAIGHT HYDRANT CONNECTION

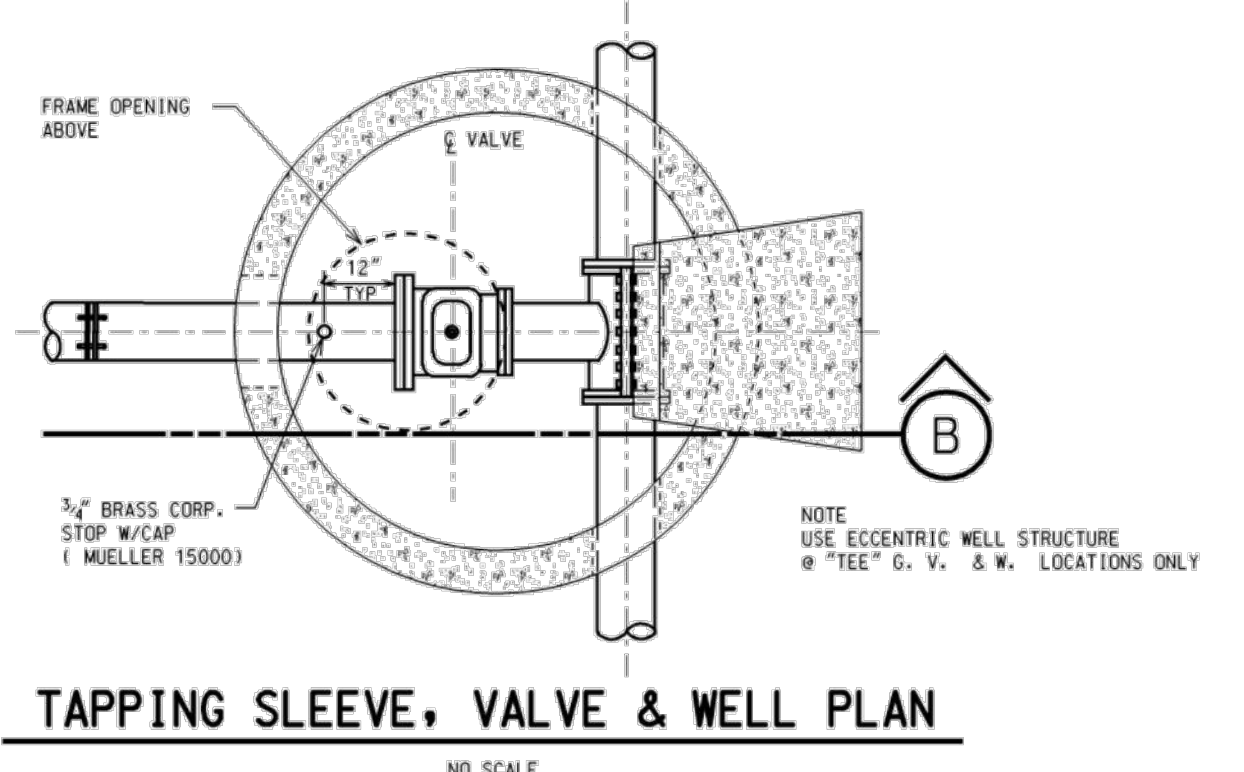
NO SCALE
W-10



ELEVATION

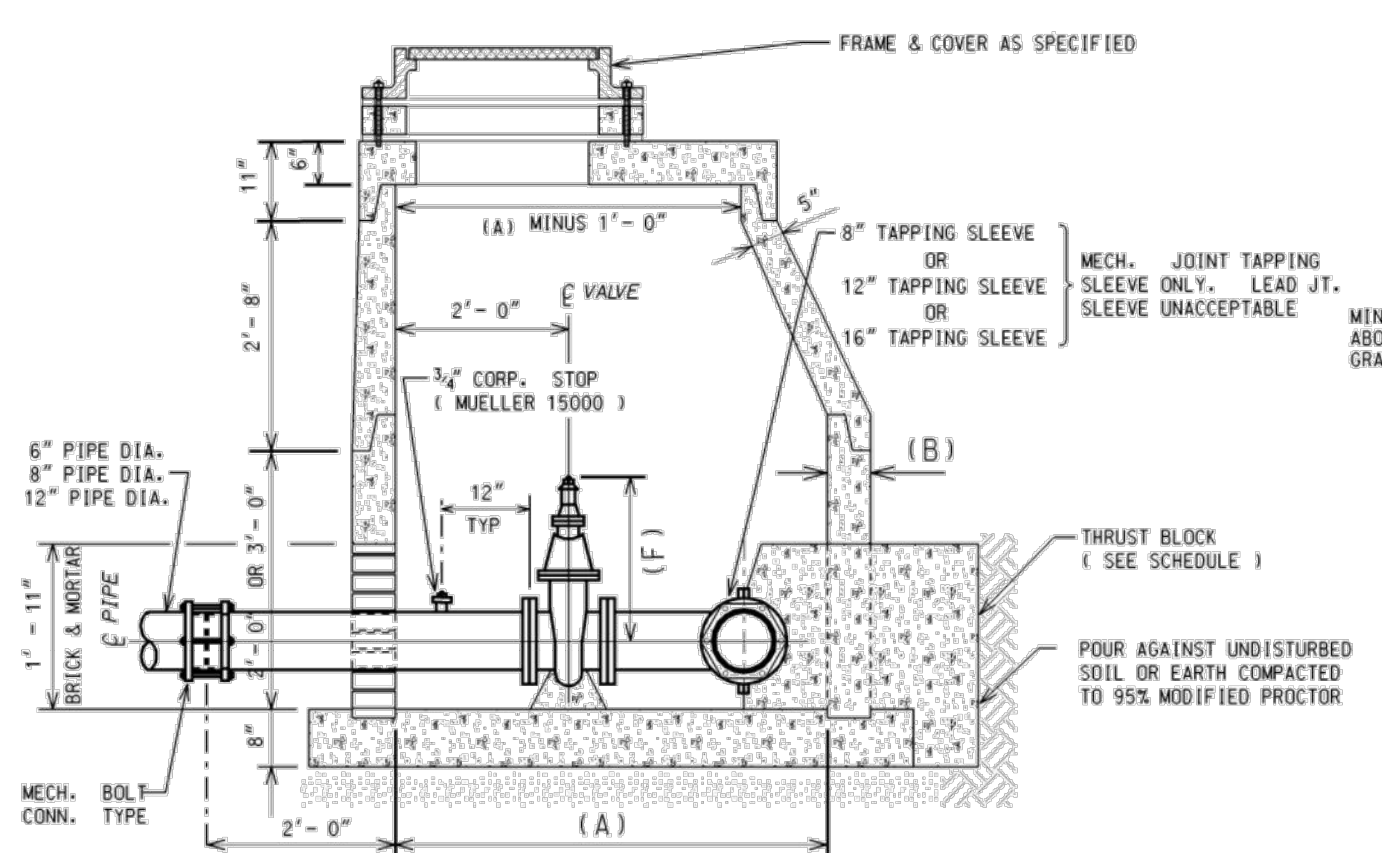


FIRE HYDRANT GUARD POSTS DETAIL



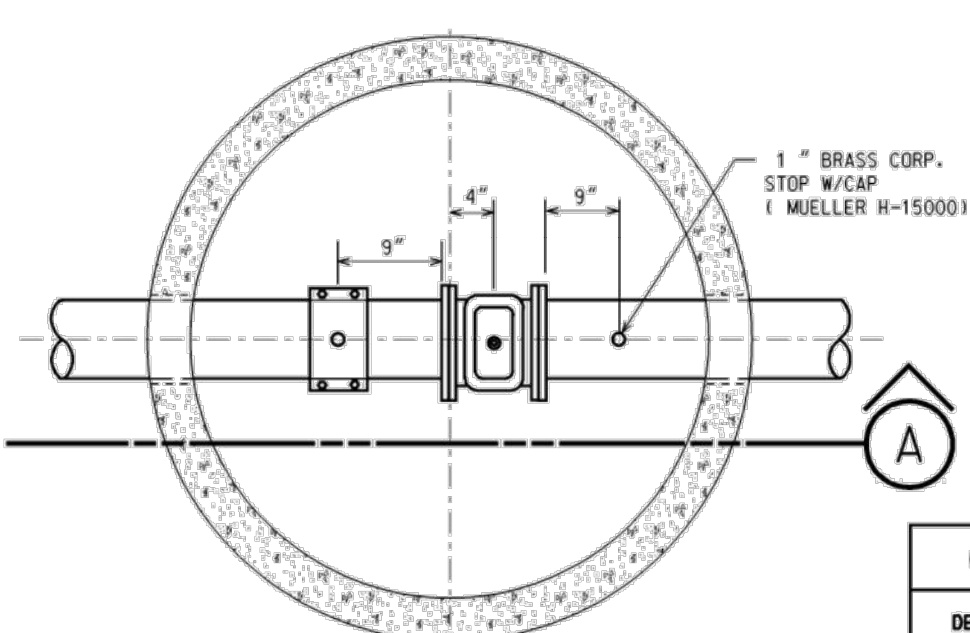
TAPPING SLEEVE, VALVE & WELL PLAN

NO SCALE



SECTION "B" TAPPING SLEEVE, VALVE & WELL

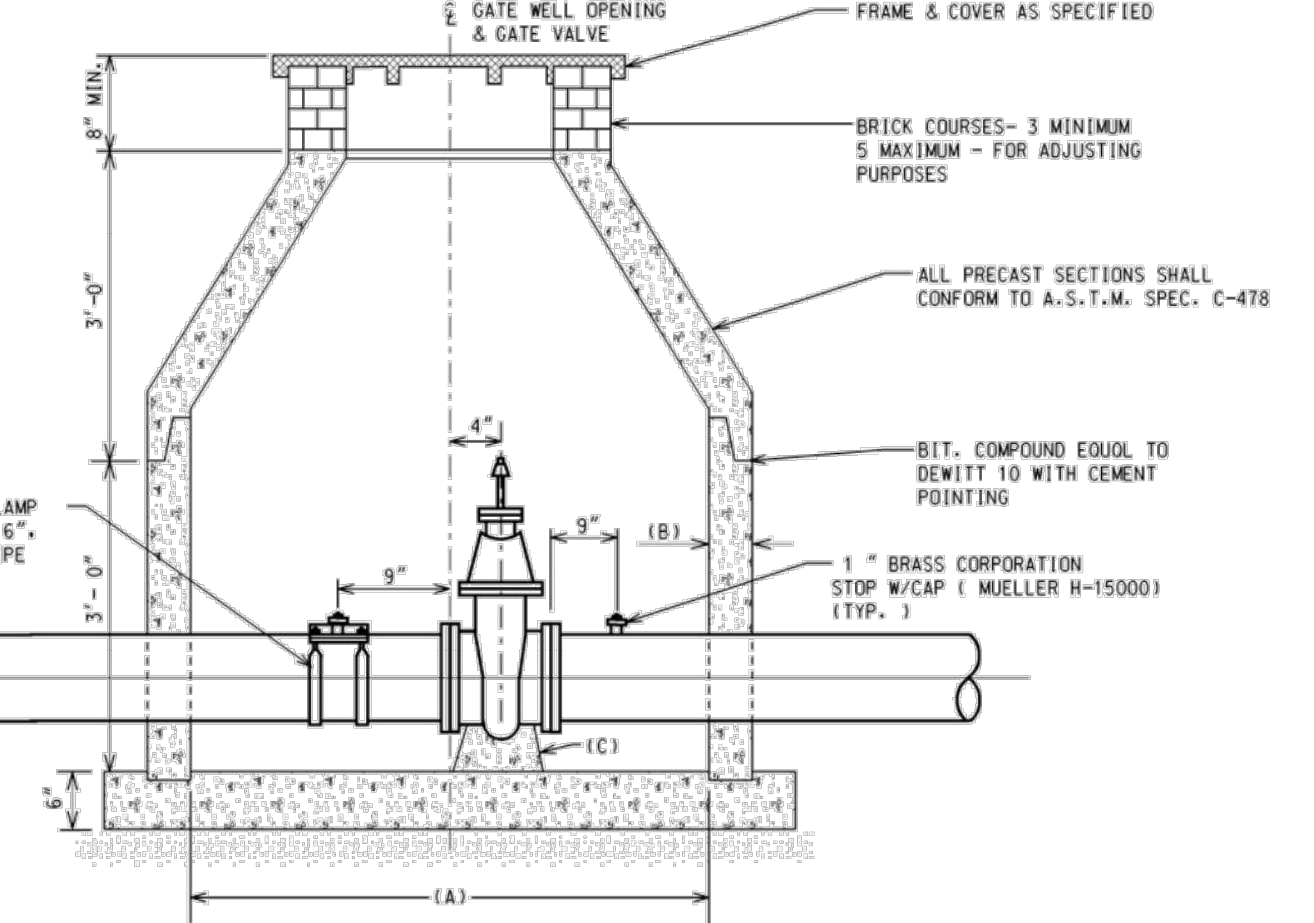
NO SCALE
W-4



GATE WELL PLAN

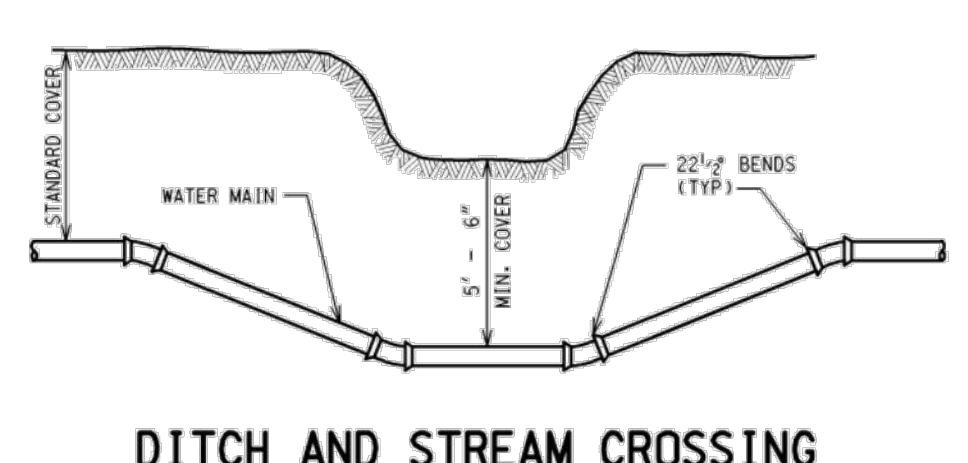
NO SCALE

DESCRIPTION	DIM.	PIPE DIA. INCHES		
		6" & 8"	12"	16"
INSIDE DIA.	A	60"	72"	72"
WALL THICK.	B	5"	7"	7"
VALVE BLOCK THICK.	C	4"	4"	4"



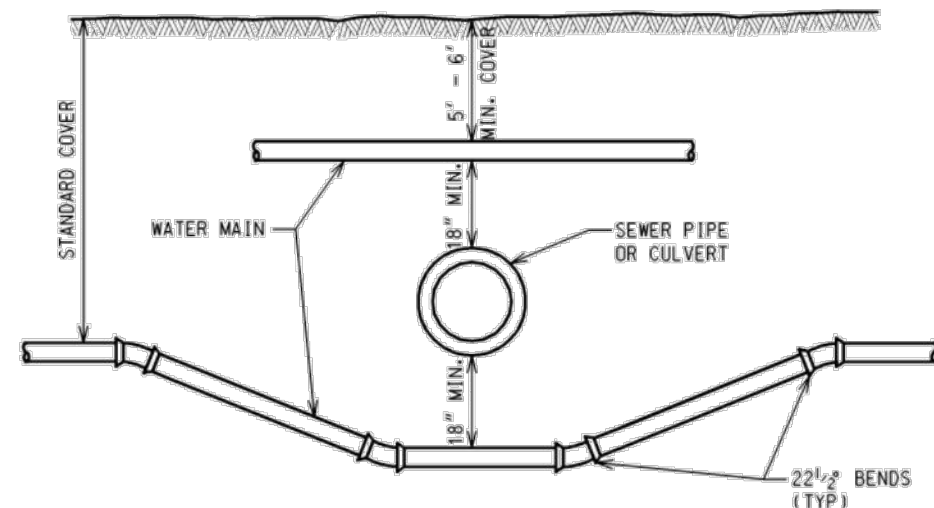
SECTION "A" GATE WELL

NO SCALE
W-1 & W-3



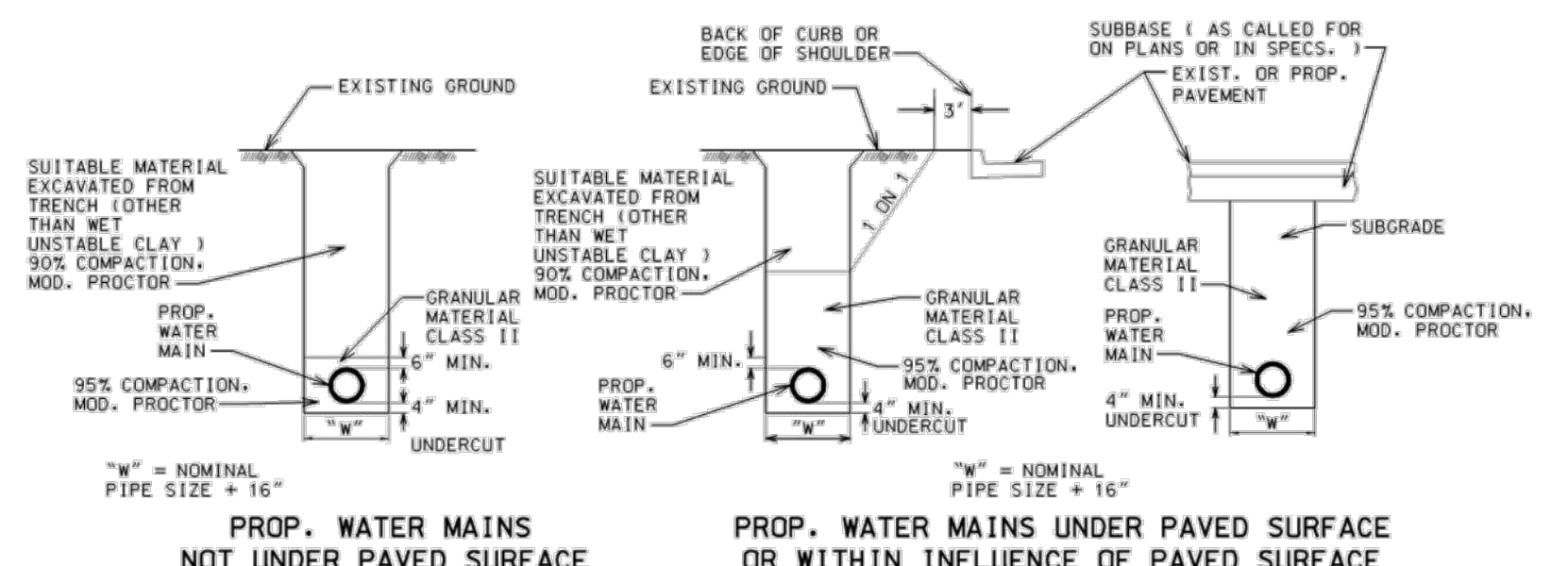
DITCH AND STREAM CROSSING

NO SCALE

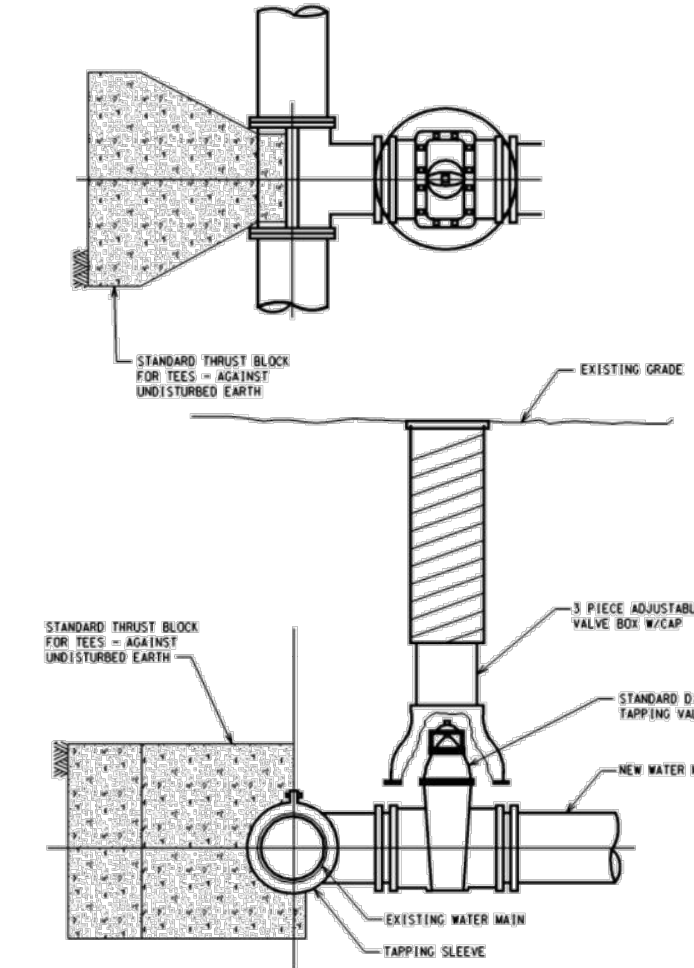


SEWER OR CULVERT CROSSING

NO SCALE

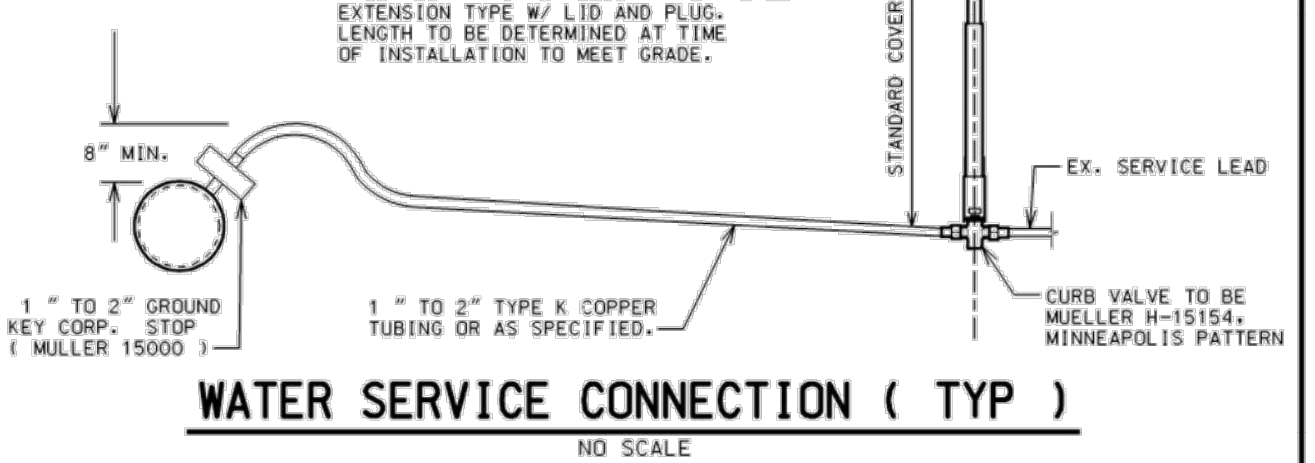


BEDDING DETAILS



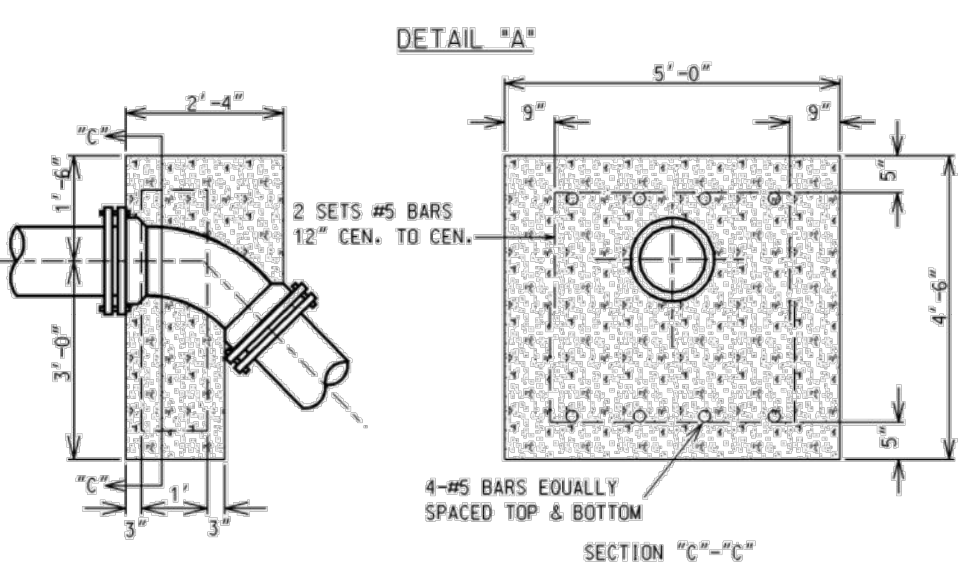
TAPPING SLEEVE & VALVE W/VALVE BOX

NO SCALE

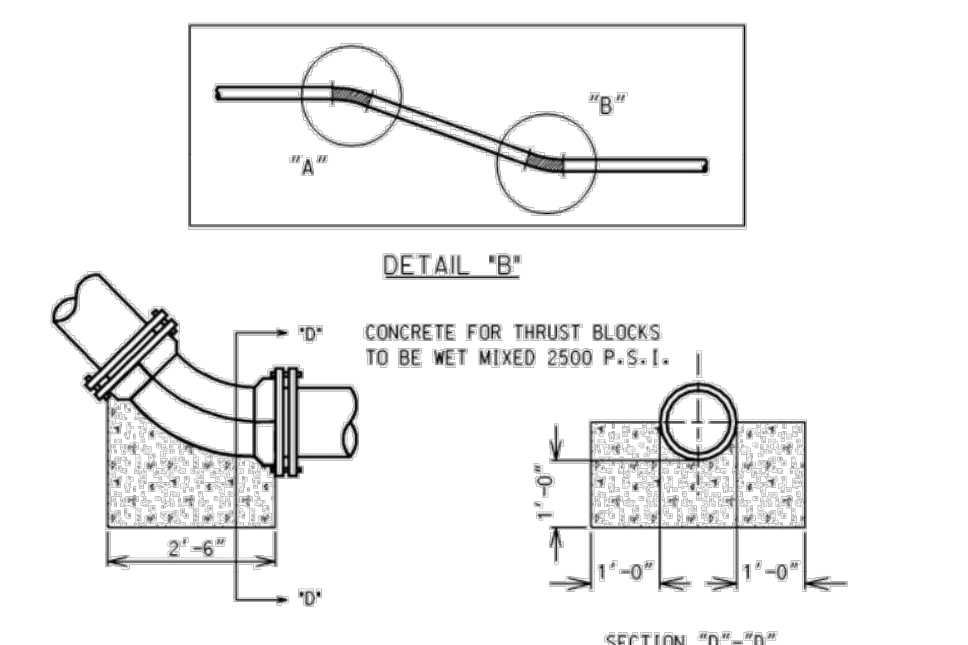


WATER SERVICE CONNECTION (TYP)

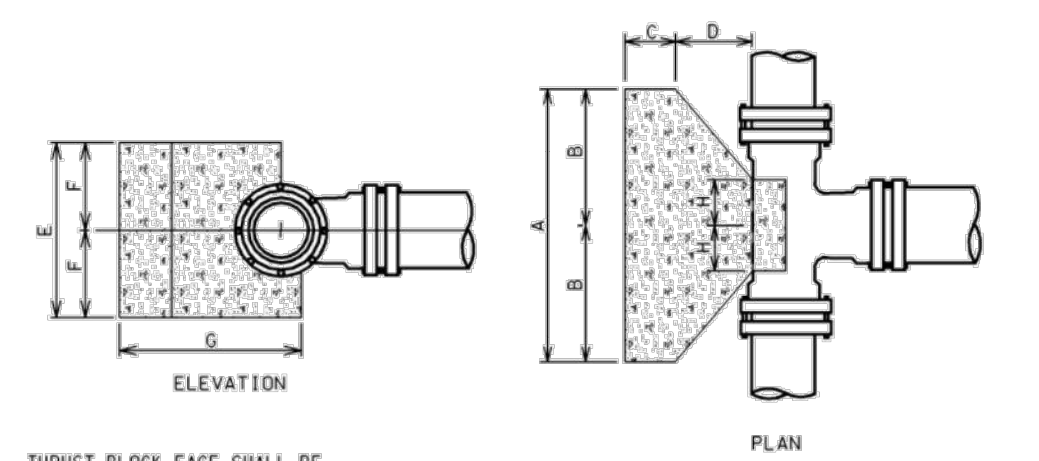
NO SCALE



DETAIL "A"



DETAIL "B"



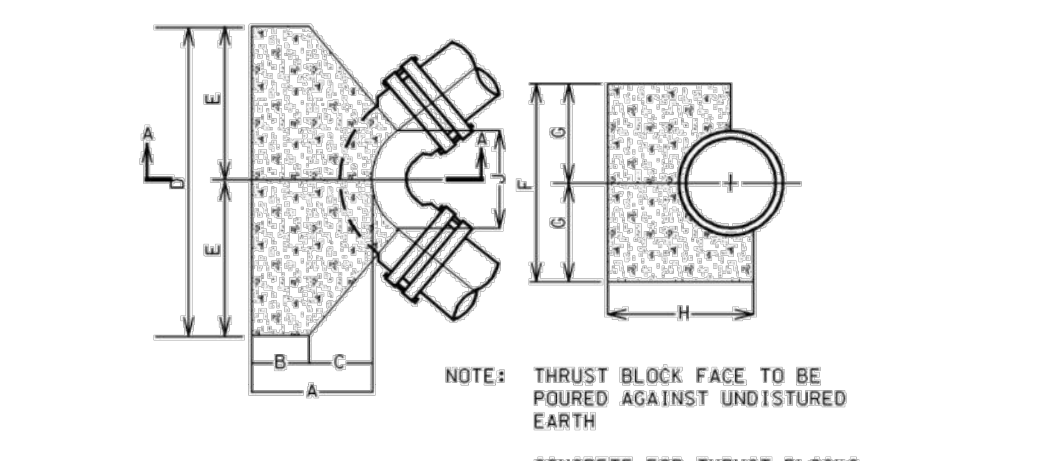
CONCRETE THRUST BLOCK FOR TEES

N. T. S.

CODE	TEE SIZE		
	8"x8"	12"x12"	16"x16"
A	3'-0"	4'-0"	5'-0"
B	1'-6"	2'-0"	2'-6"
C	0'-9"	0'-9"	1'-0"
D	1'-0"	1'-4"	1'-8"
E	2'-0"	3'-0"	4'-0"
F	1'-0"	1'-6"	2'-0"
G	2'-0"	3'-10"	3'-8"
H	0'-6"	0'-10"	1'-0"
I	0'-6"	0'-10"	1'-0"
J	0'-6"	0'-10"	1'-0"

CONCRETE THRUST BLOCK FOR BENDS

N. T. S.



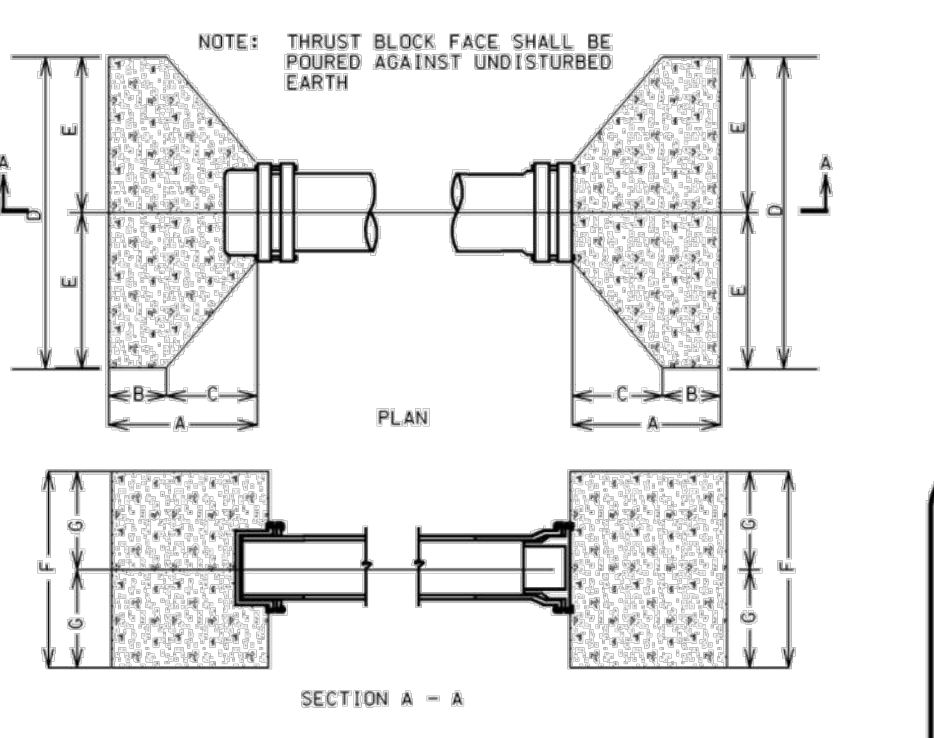
CONCRETE THRUST BLOCK FOR BENDS

N. T. S.

SIZE	ANGLE	MIN.									
		A	B	C	D	E	F	G	H	J	
6"	45°	1'-6"	0'-9"	0'-9"	1'-6"	0'-9"	1'-6"	0'-9"	1'-8"	0'-10"	
6"	90°	1'-6"	0'-9"	0'-9"	2'-0"	1'-0"	2'-0"	1'-0"	1'-8"	0'-10"	
8"	45°	1'-9"	0'-9"	1'-0"	2'-4"	1'-2"	2'-0"	1'-0"	1'-11"	1'-4"	
8"	90°	1'-9"	0'-9"	1'-0"	3'-4"	1'-8"	2'-6"	1'-3"	1'-11"	1'-2"	
12"	22-1/2°	1'-9"	0'-9"	1'-0"	2'-6"	1'-3"	2'-0"	1'-0"	2'-0"	1'-4"	
12"	45°	2'-4"	0'-9"	1'-4"	3'-6"	1'-9"	2'-6"	1'-3"	2'-4"	1'-4"	
12"	90°	2'-4"	0'-9"	1'-4"	5'-0"	2'-9"	3'-0"	1'-6"	2'-4"	1'-8"	
16"	22-1/2°	2'-8"	1'-0"	1'-8"	3'-4"	1'-8"	2'-6"	1'-3"	3'-0"	1'-2"	
16"	45°	2'-8"	1'-0"	1'-8"	5'-4"	2'-8"	3'-0"	1'-6"	3'-0"	1'-6"	
16"	90°	2'-8"	1'-0"	1'-8"	6'-0"	3'-0"	5'-0"	2'-6"	3'-0"	1'-8"	
24"	90°	4'-3"	1'-0"	3'-2"	10'-0"	5'-0"	7'-0"	3'-6"	5'-4"	2'-4"	

CONC. THRUST BLOCKS FOR PLUGS & CAPS

N. T. S.



CONC. THRUST BLOCKS FOR PLUGS & CAPS

N. T. S.

City of Birmingham
A Historic Community

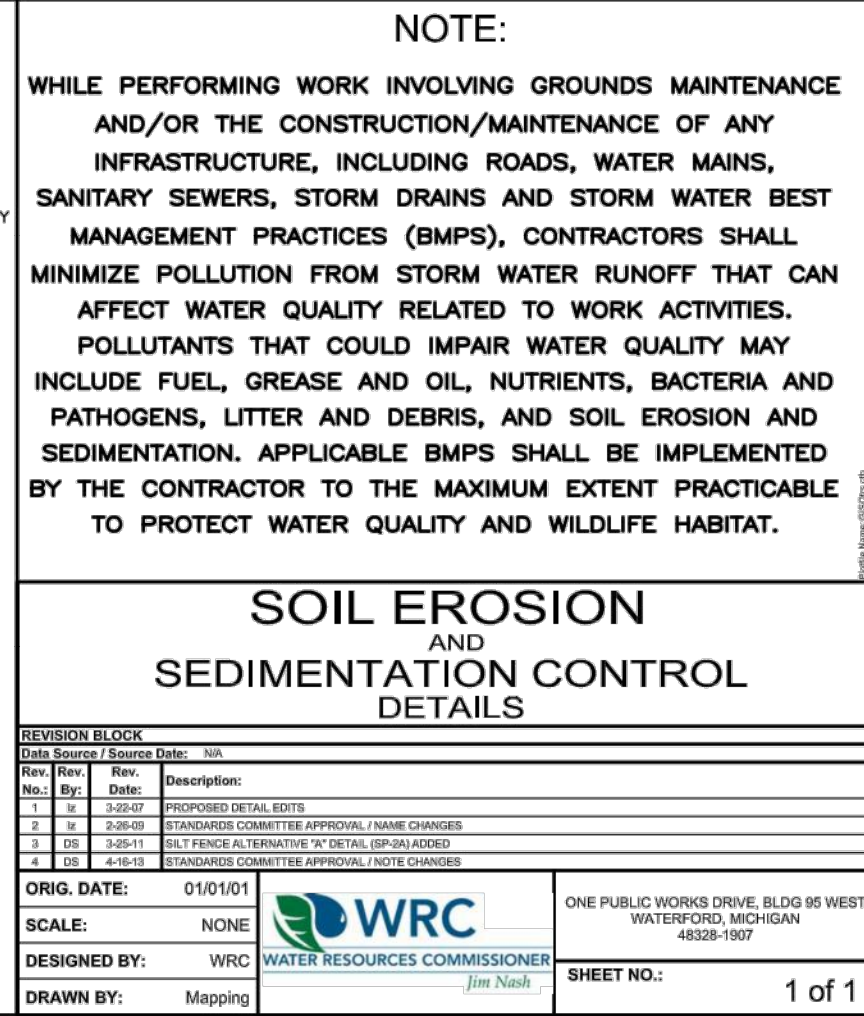
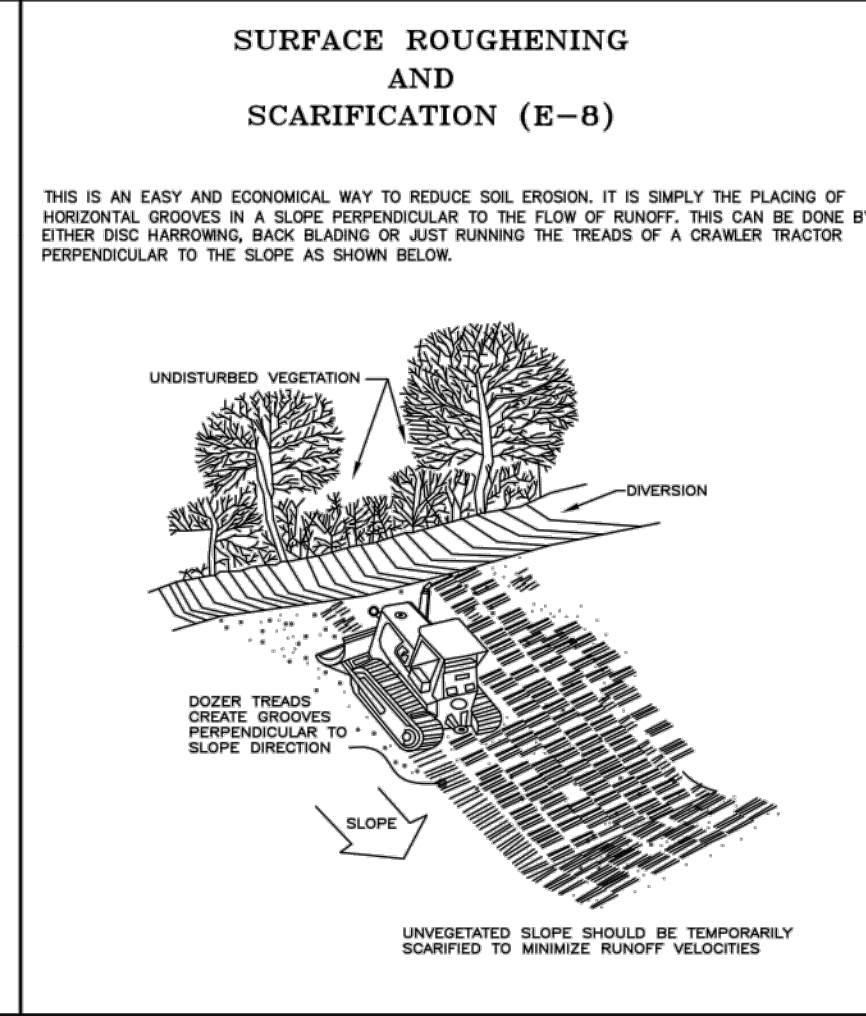
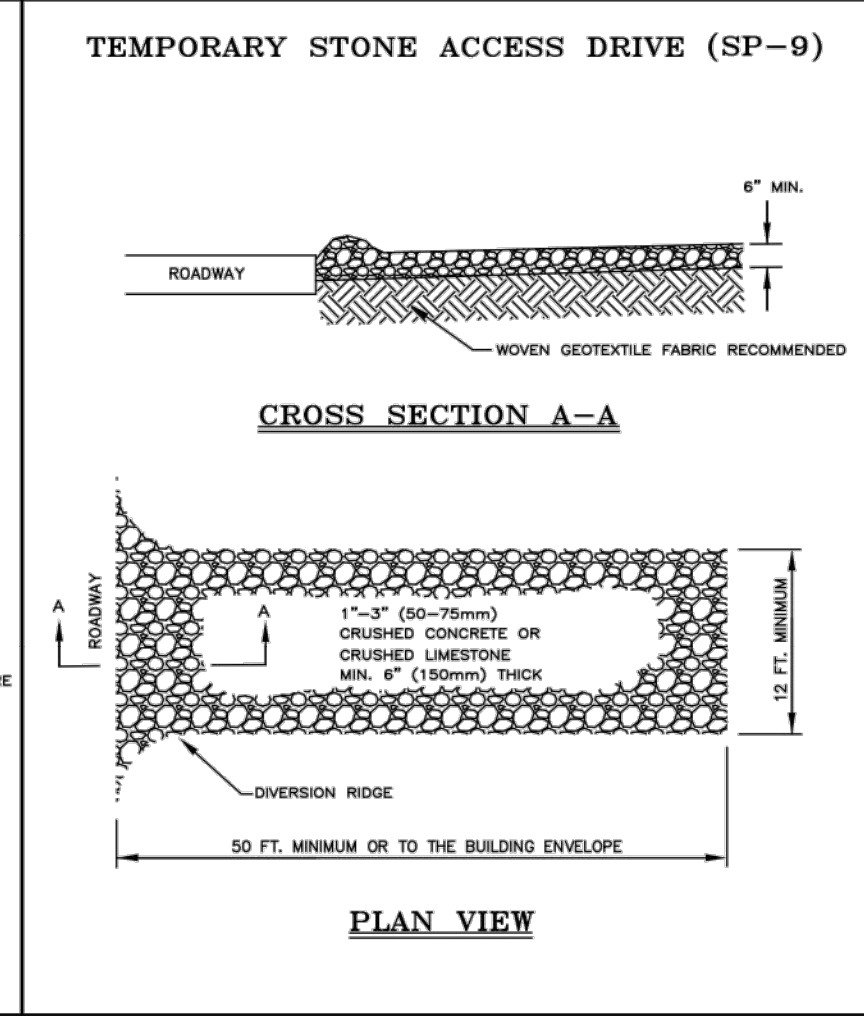
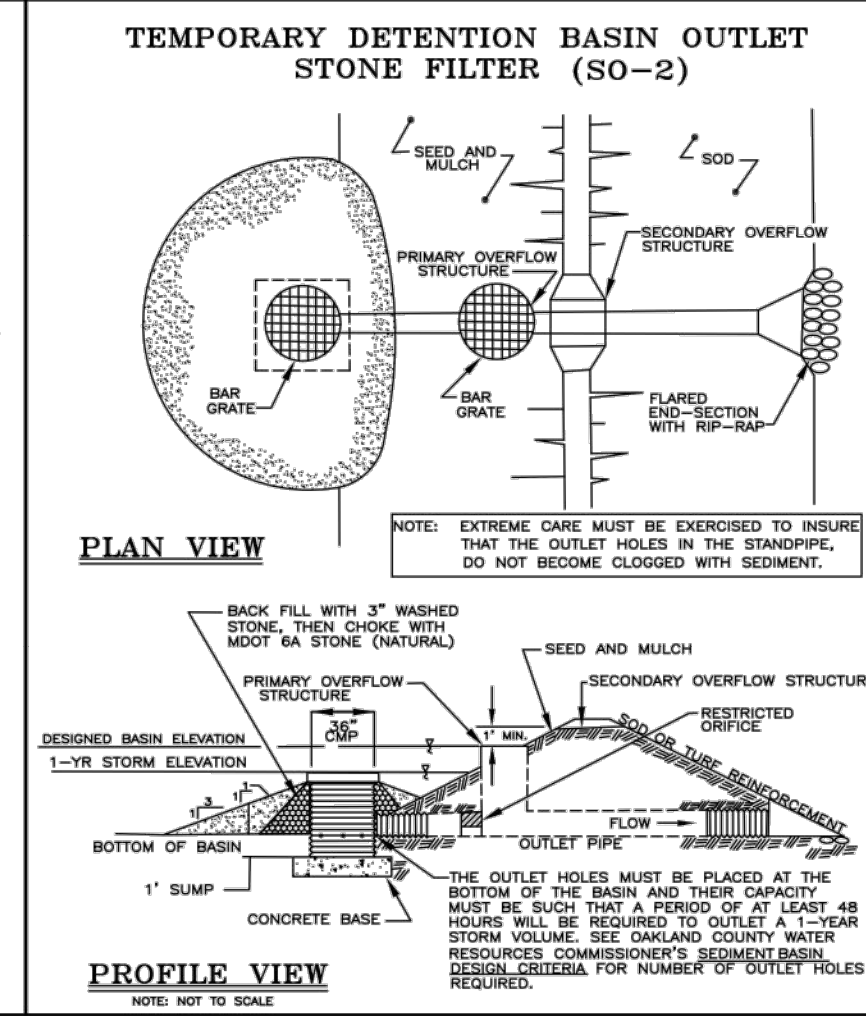
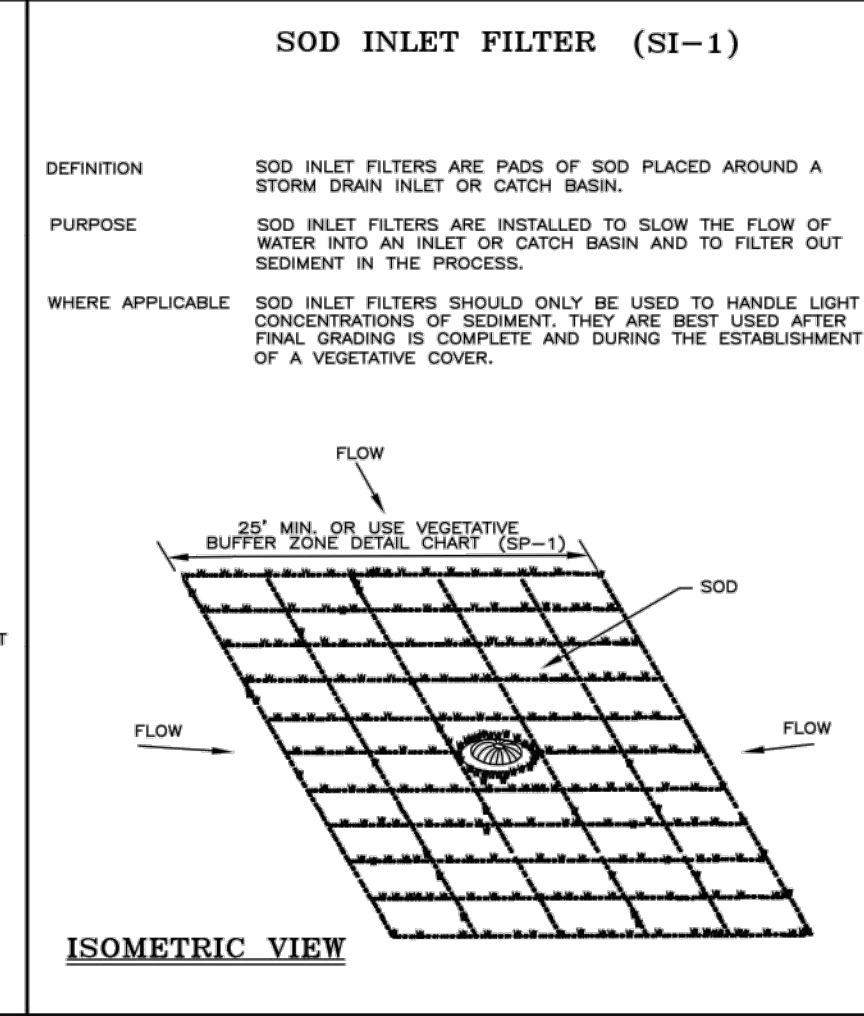
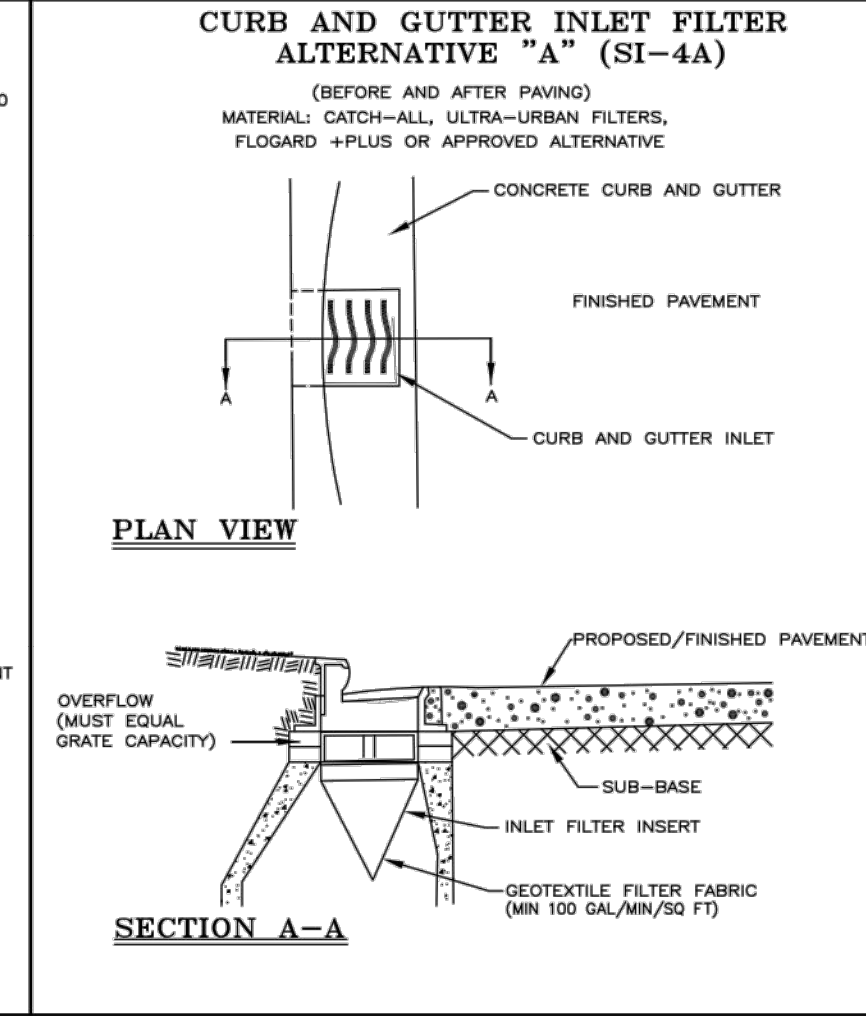
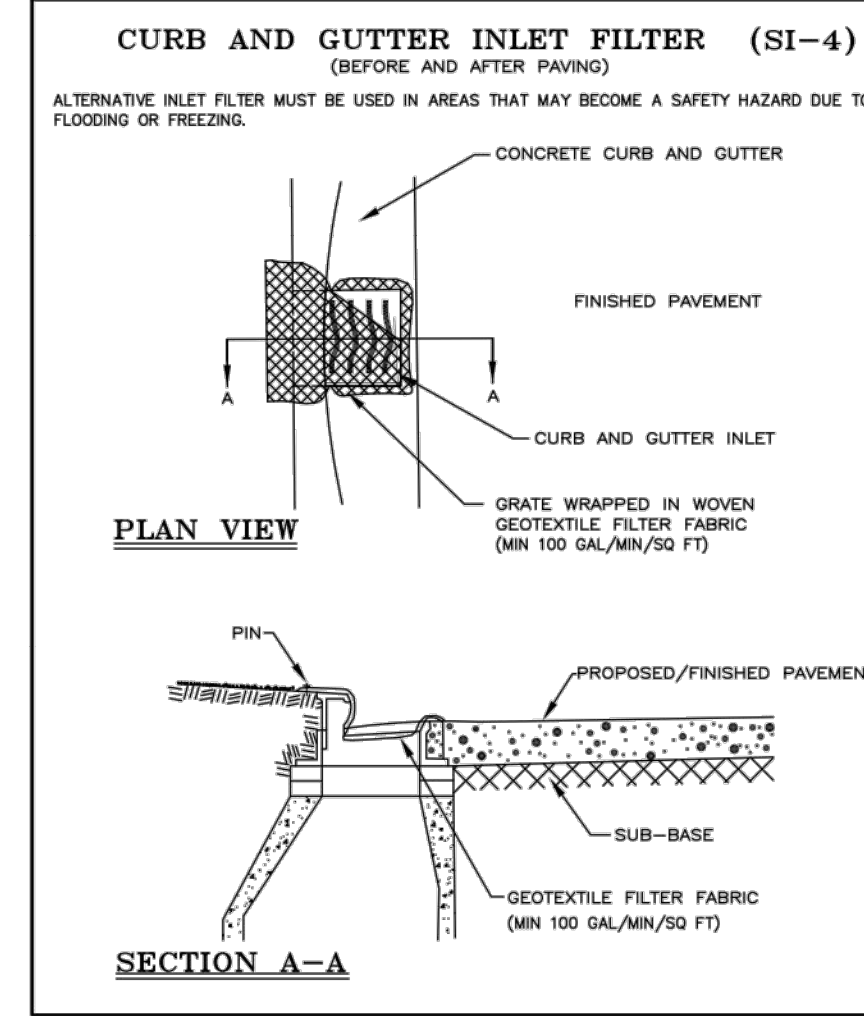
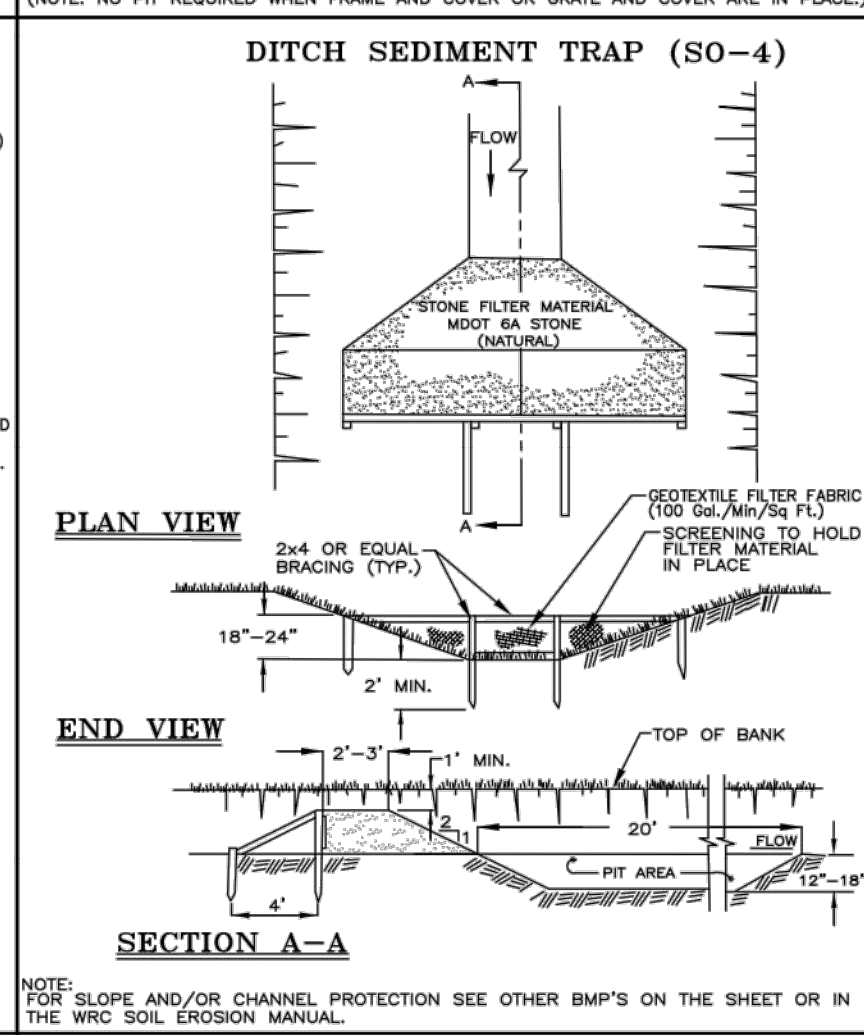
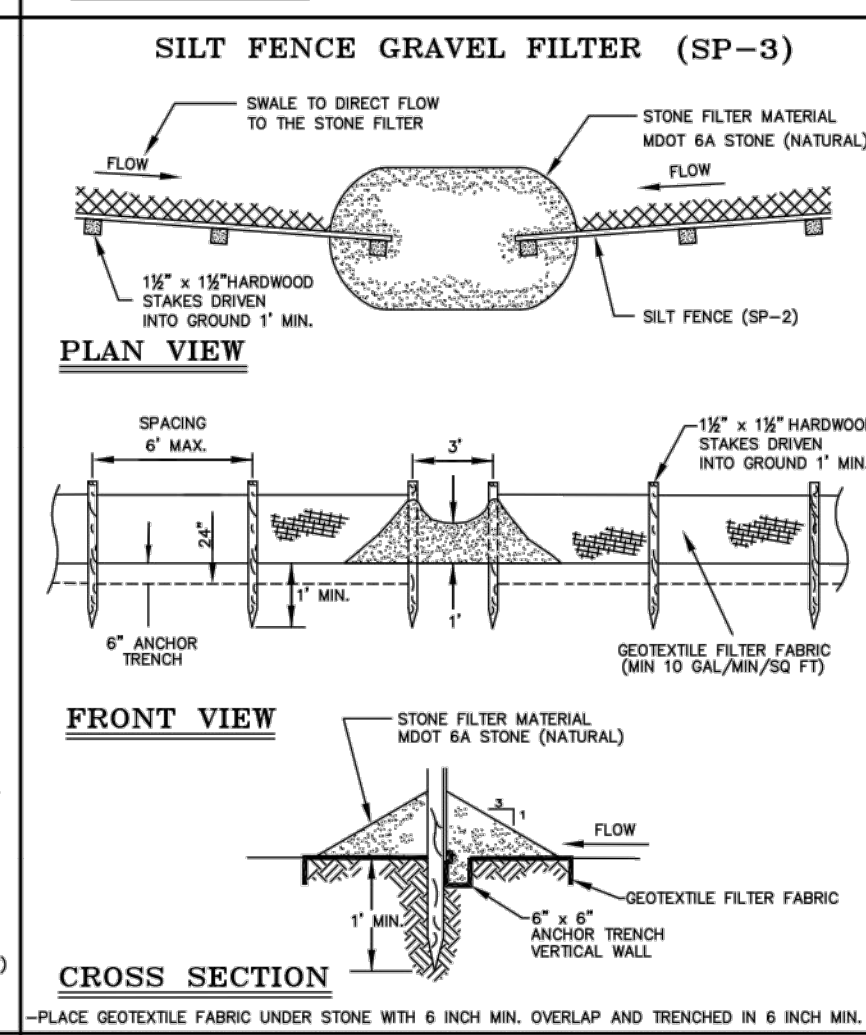
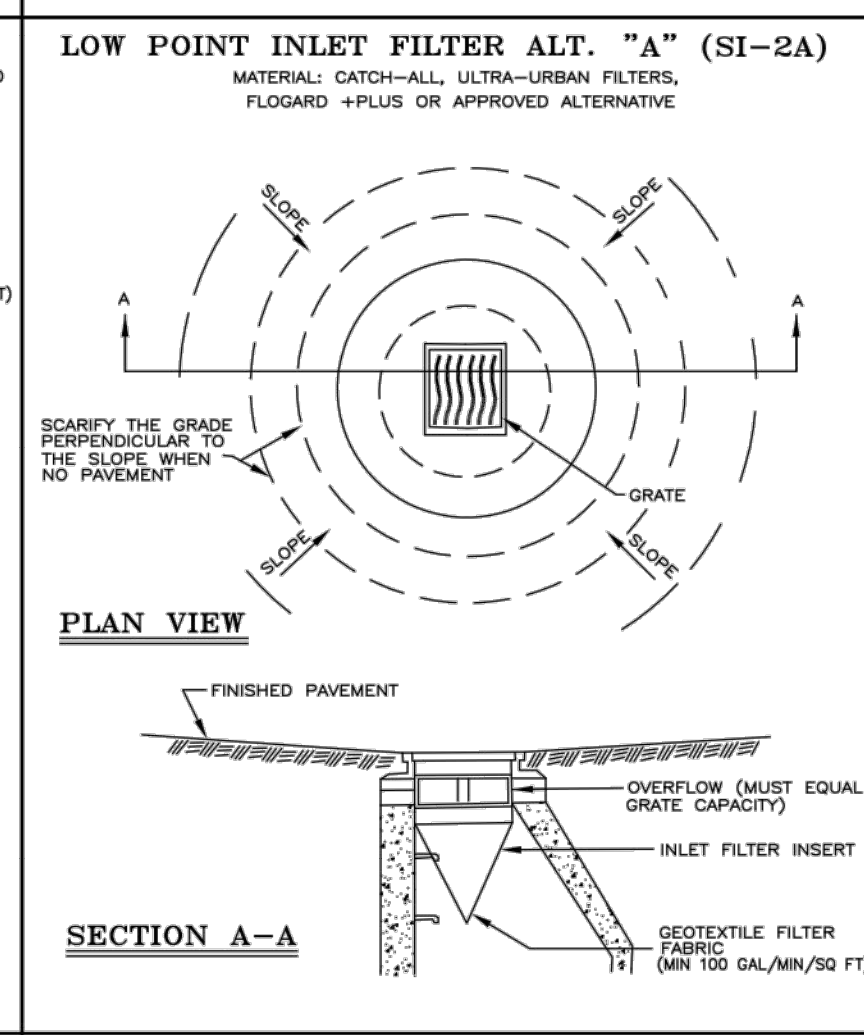
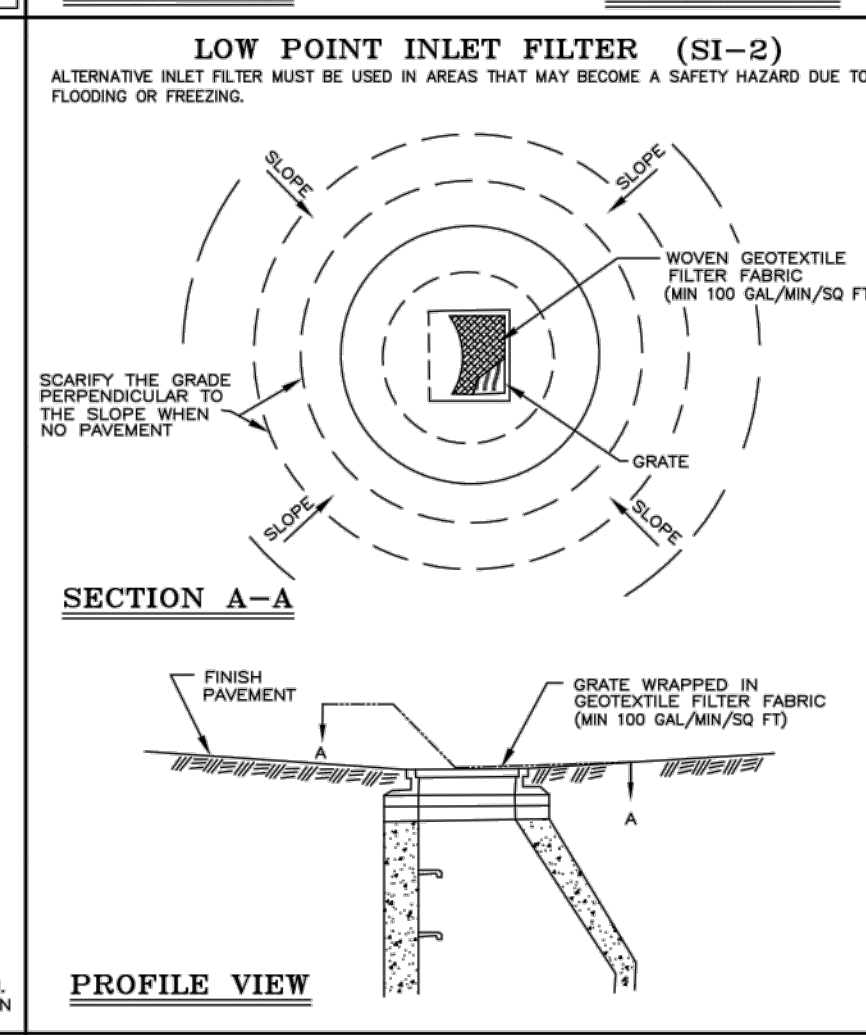
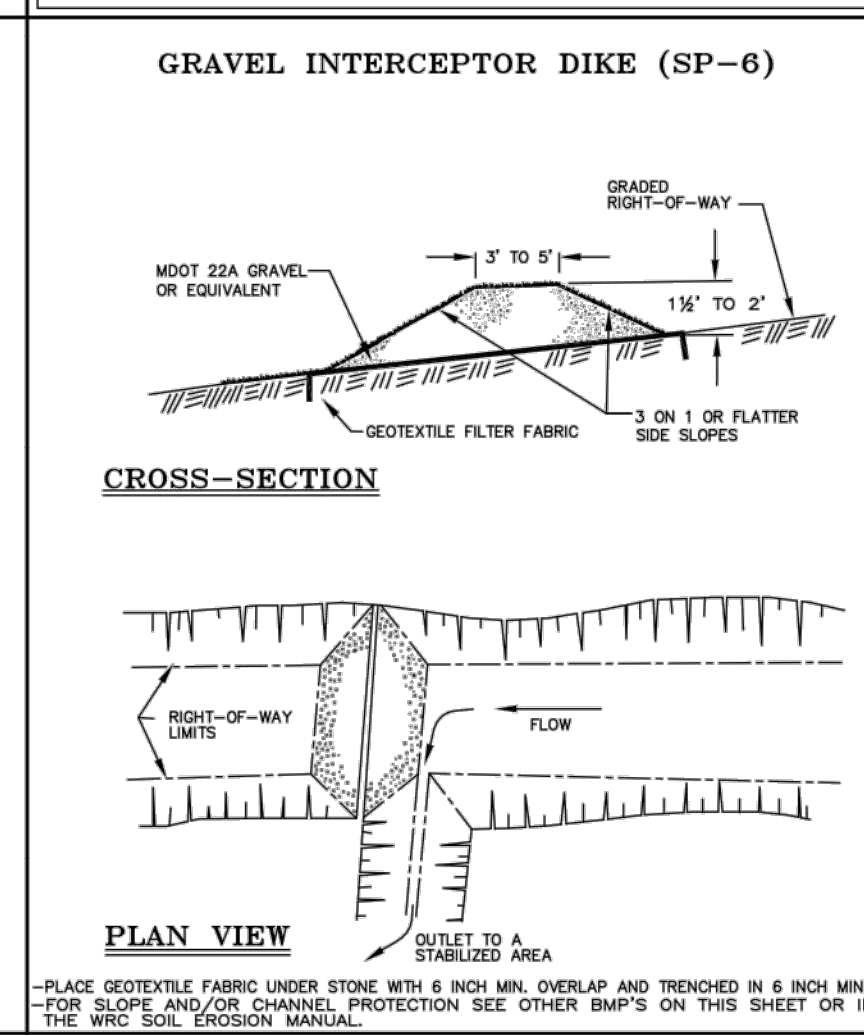
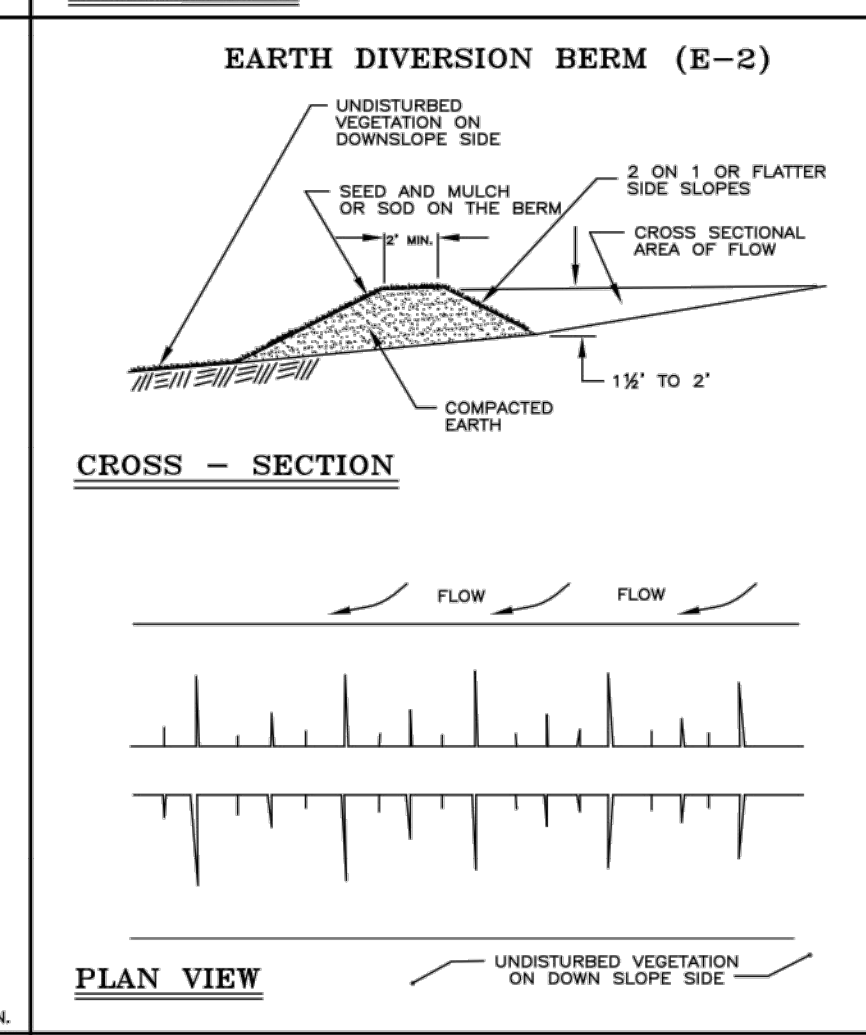
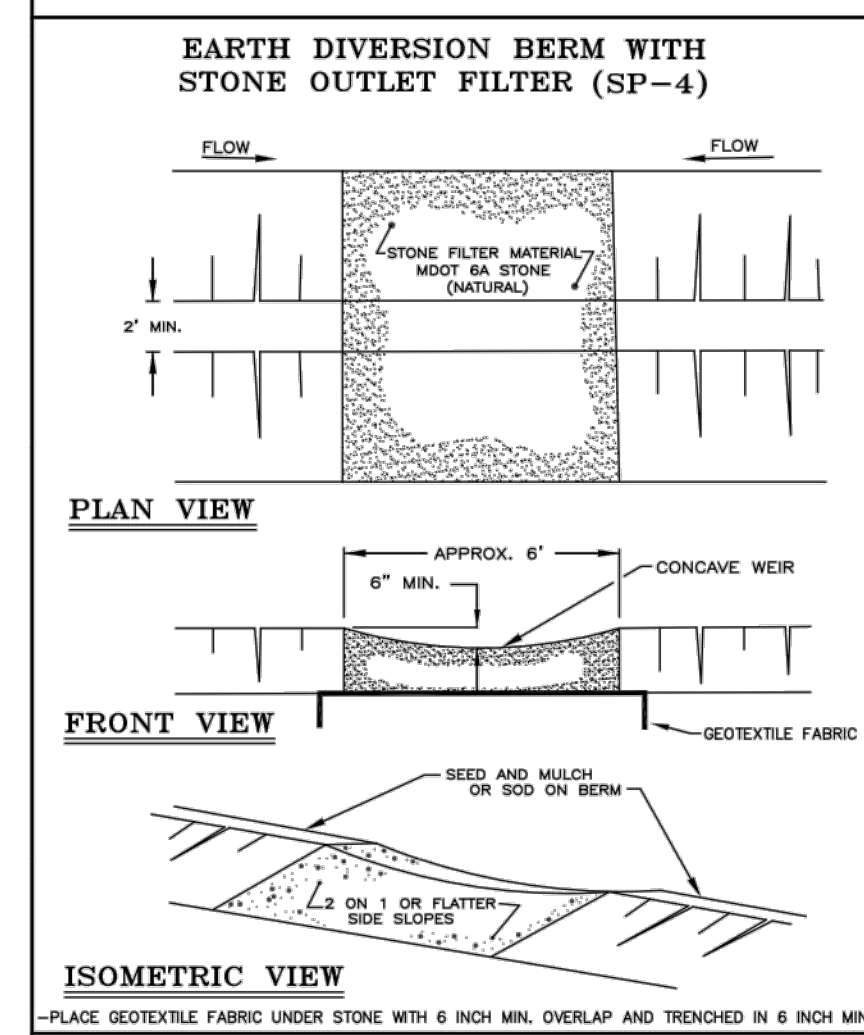
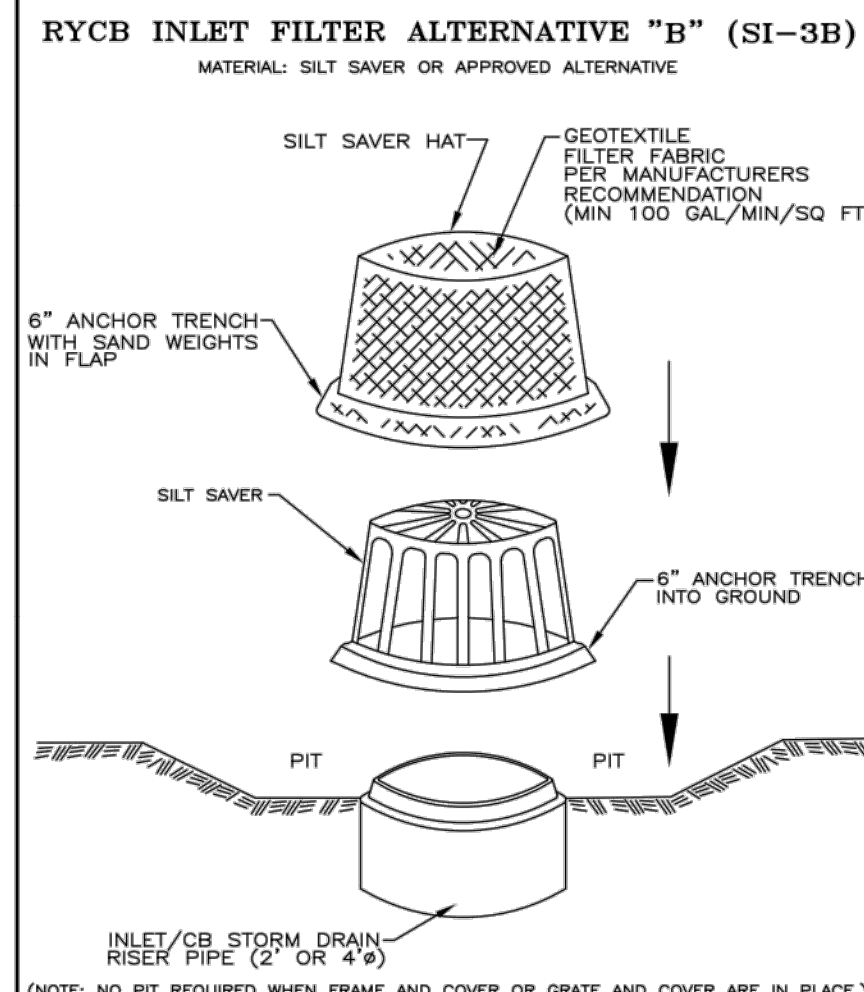
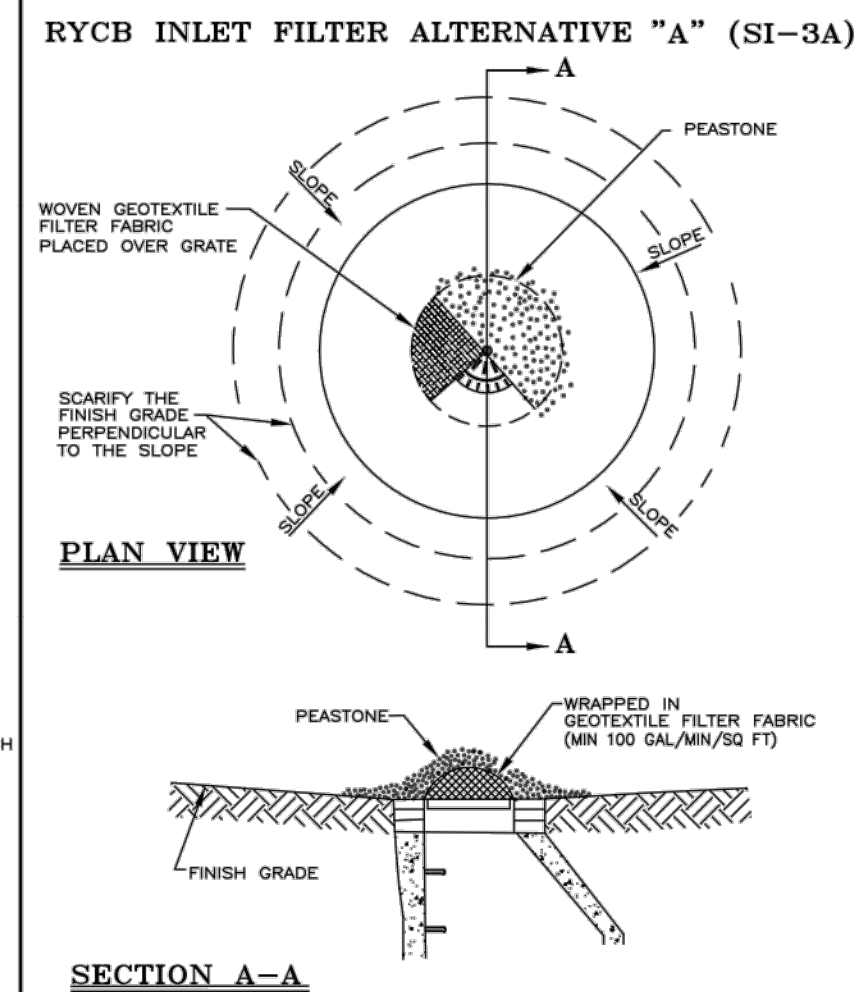
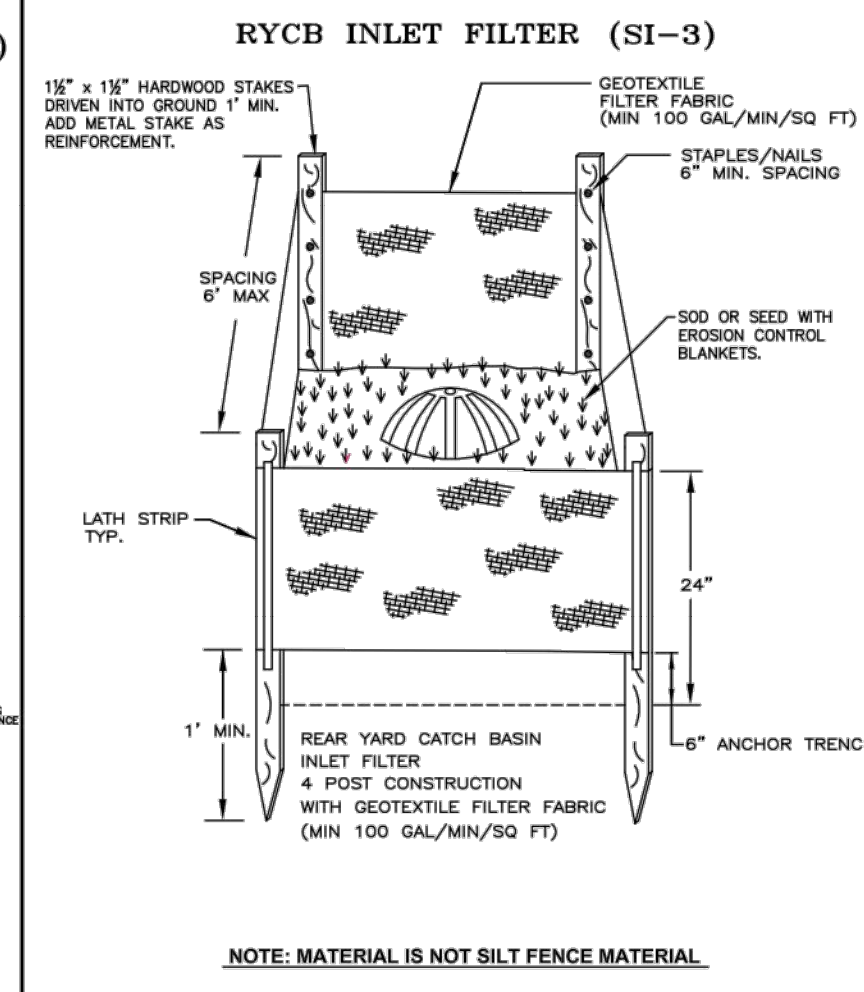
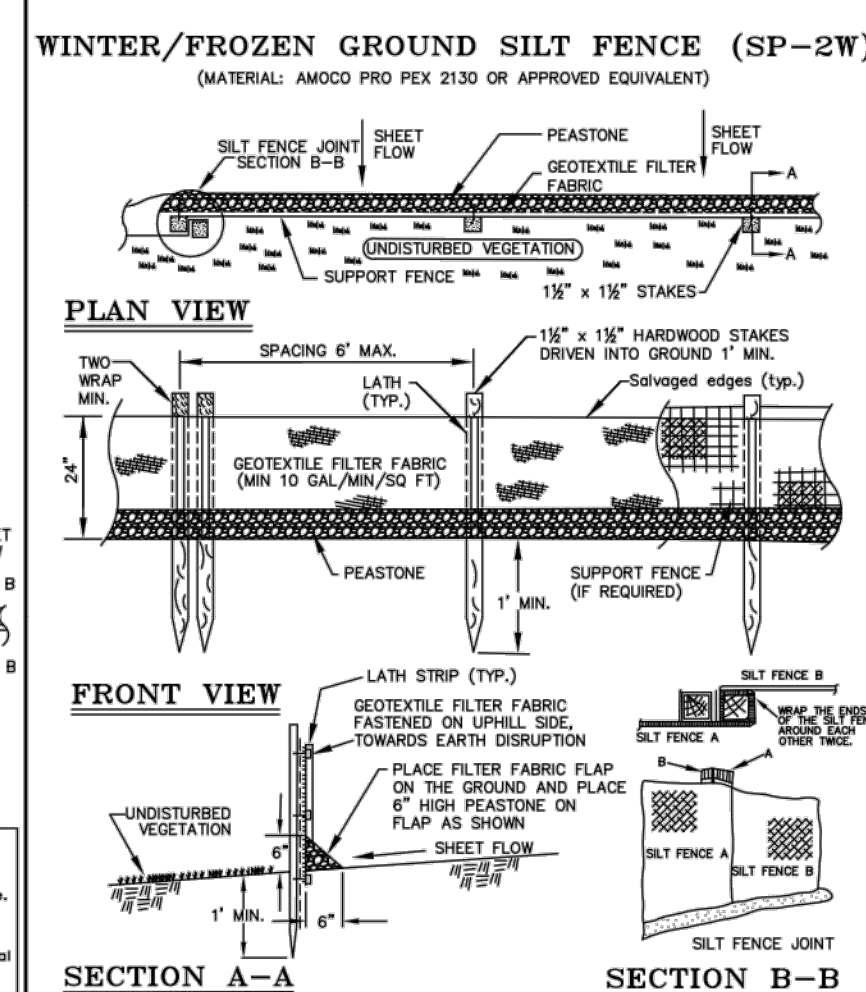
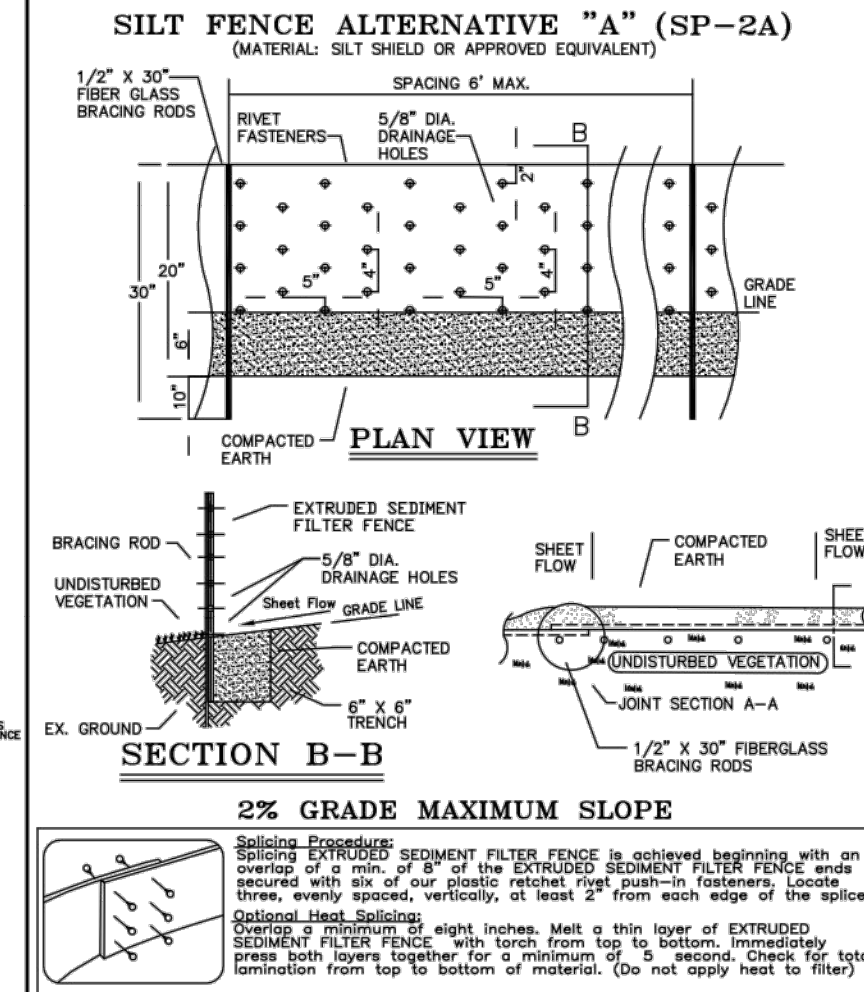
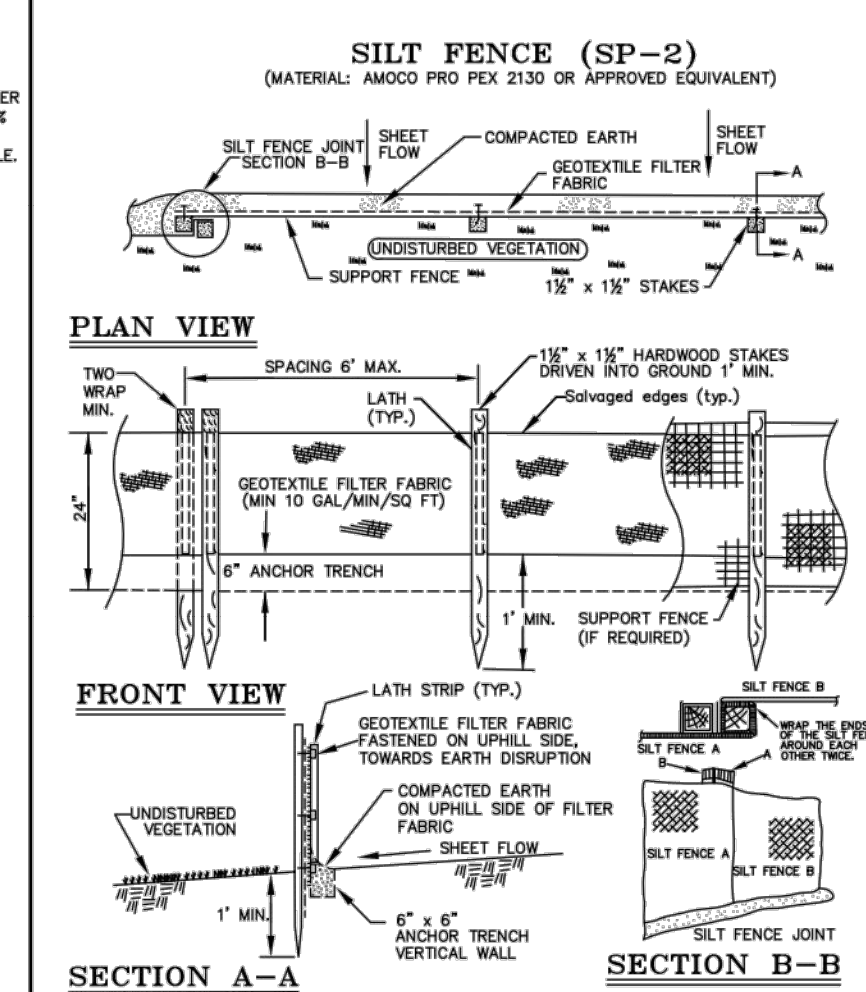
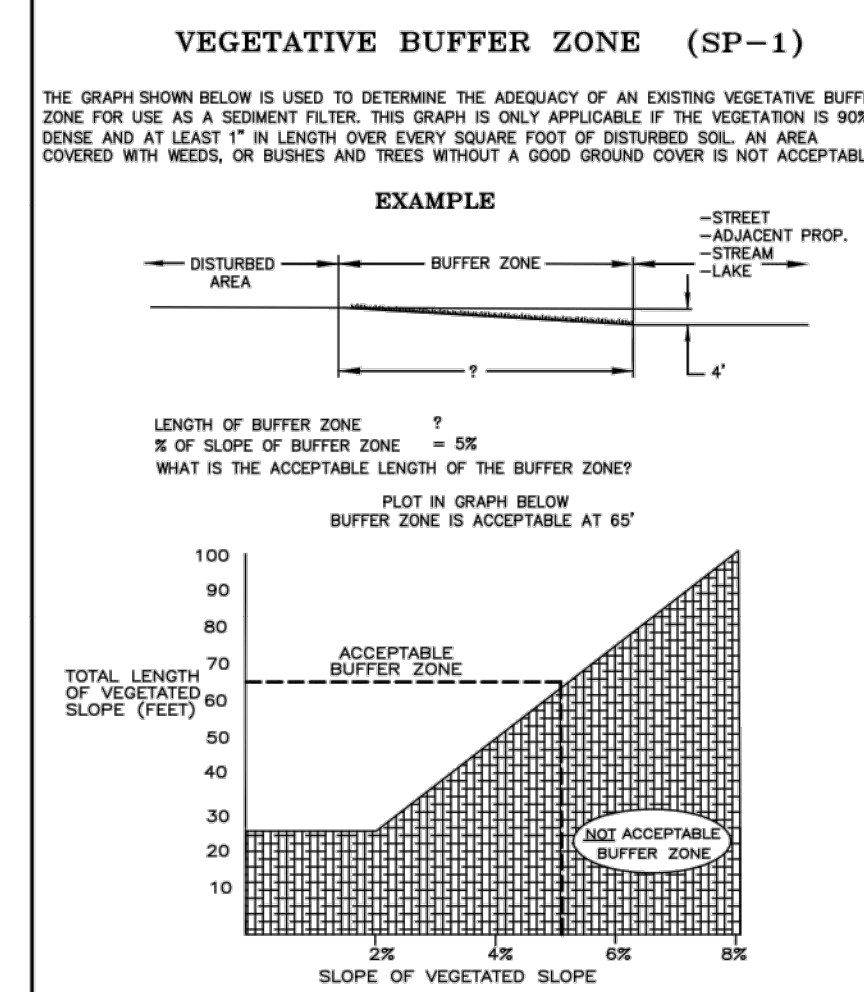
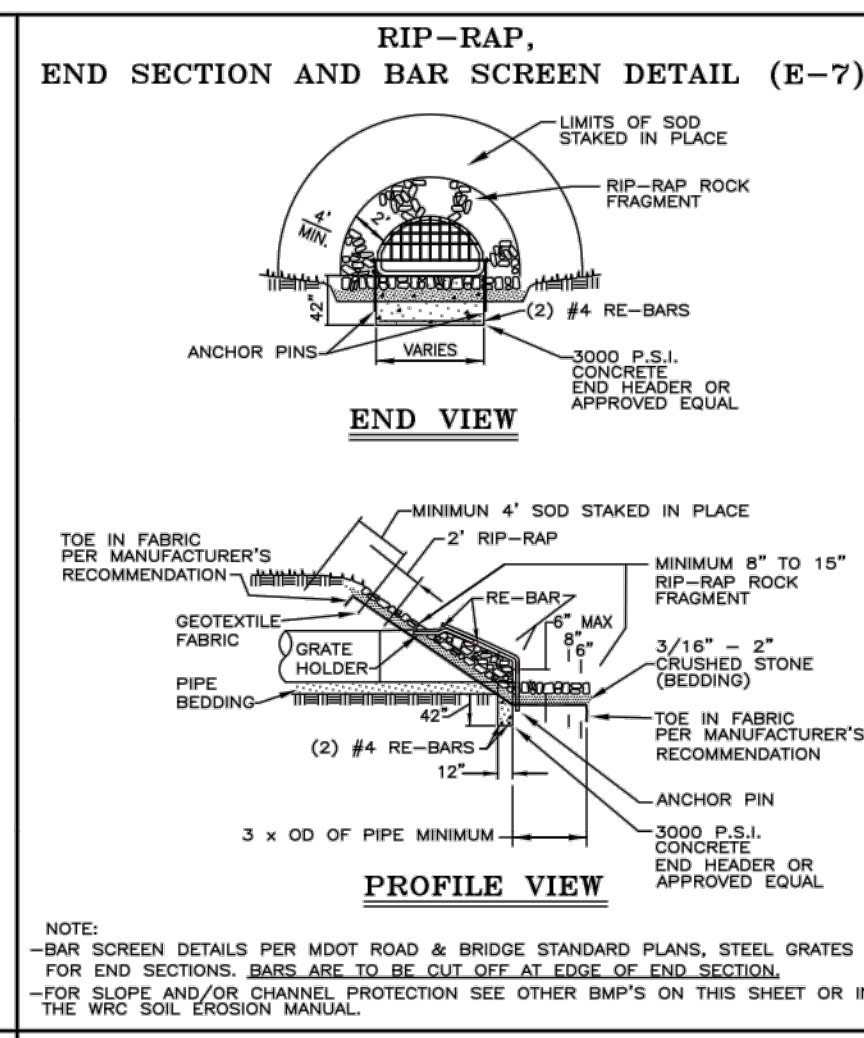
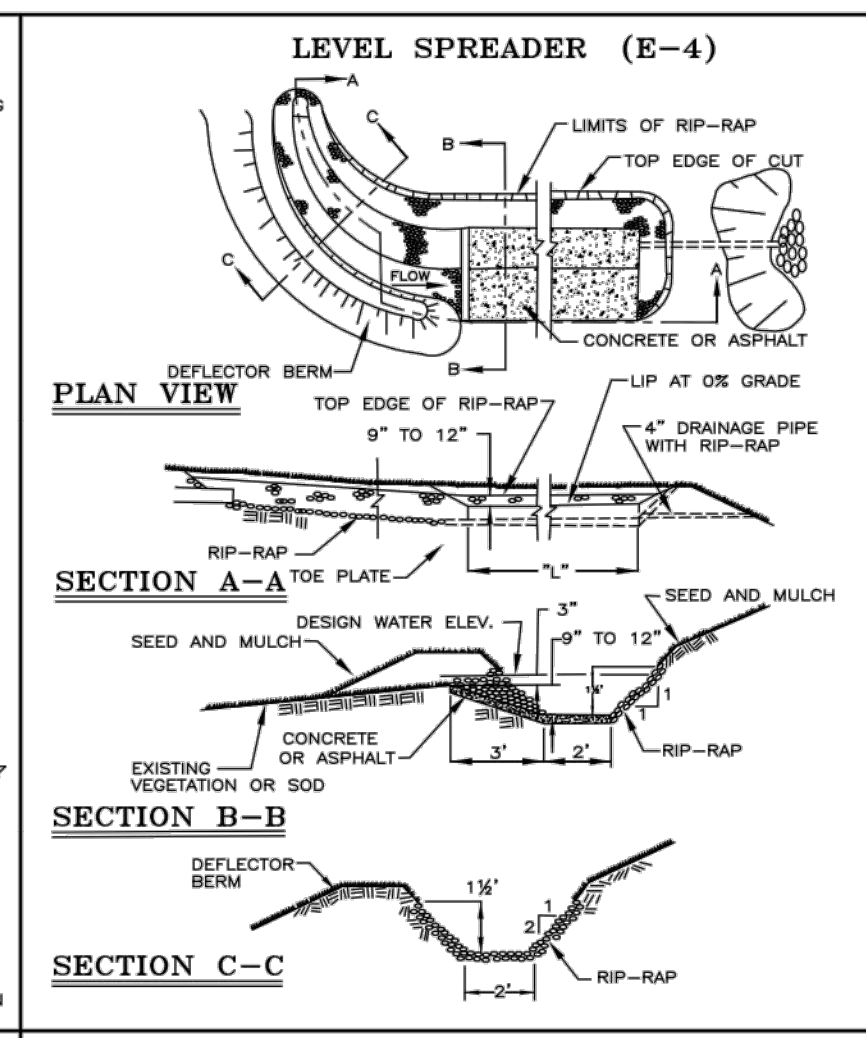
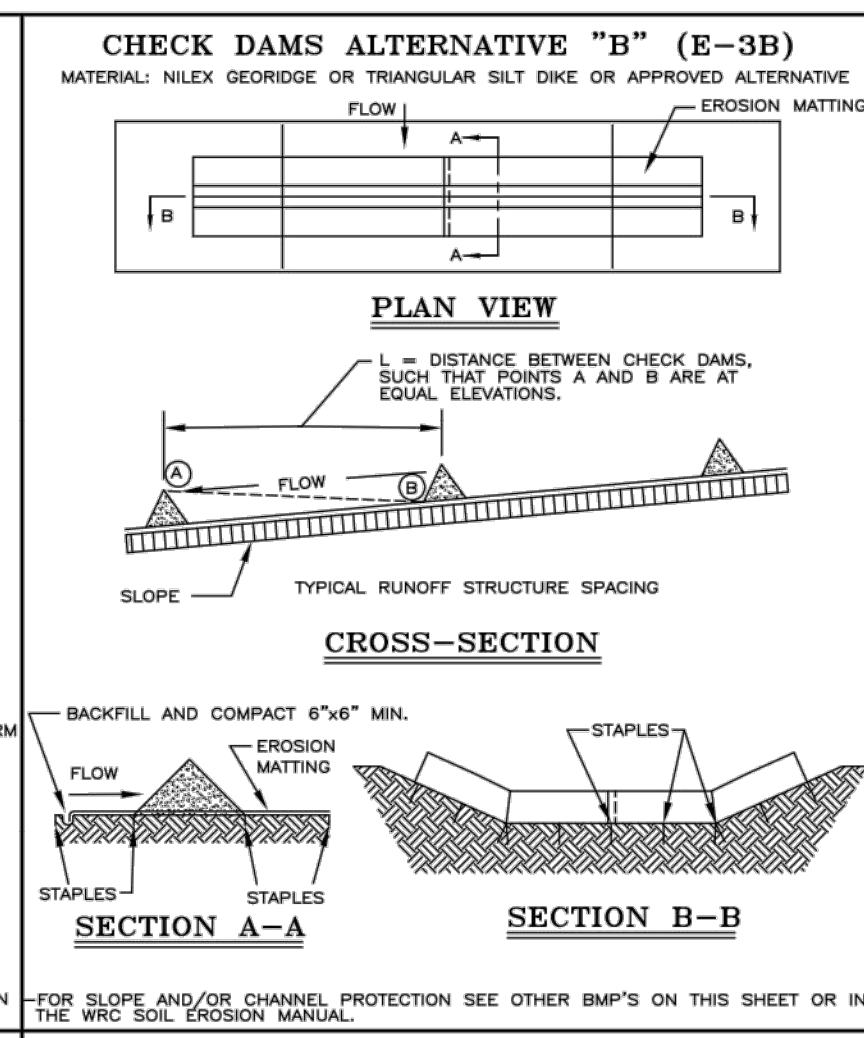
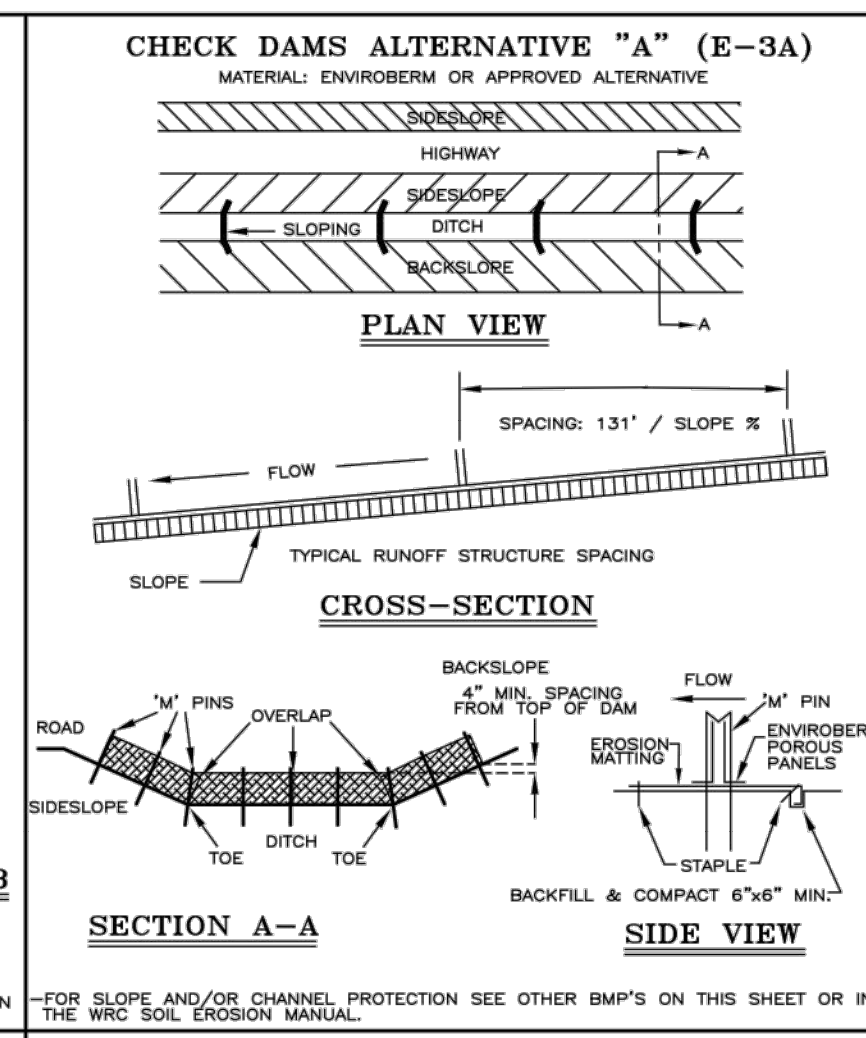
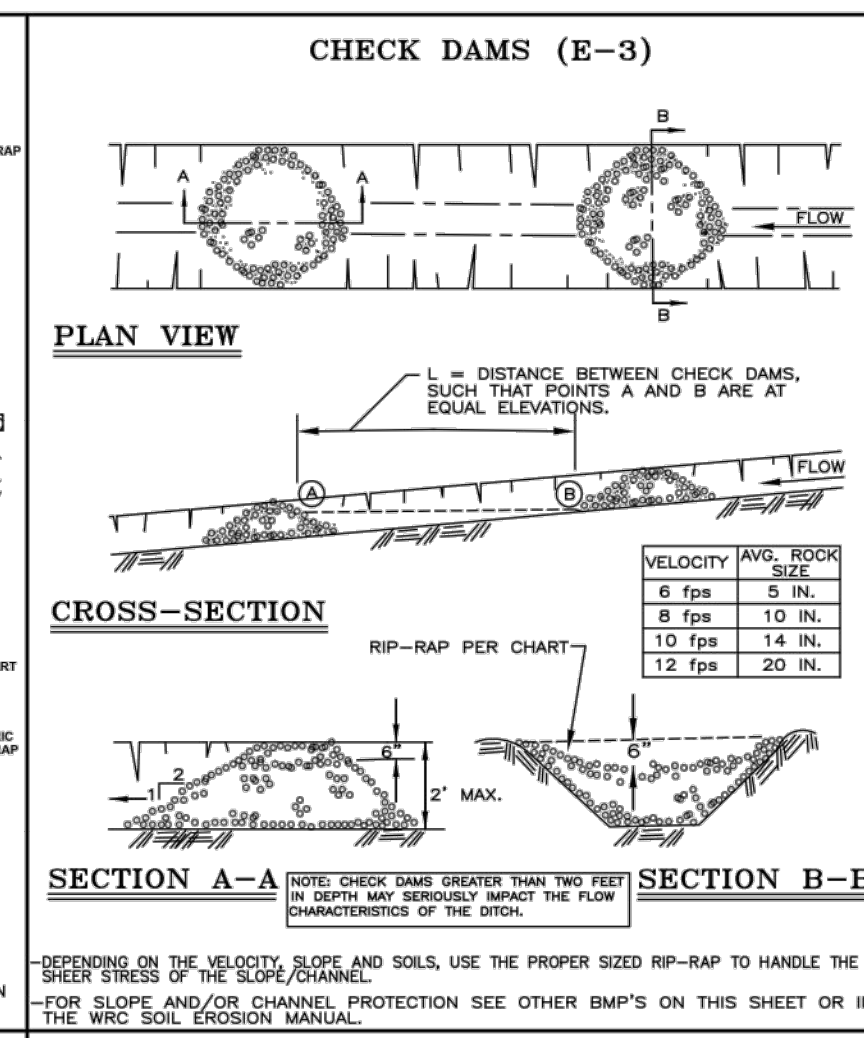
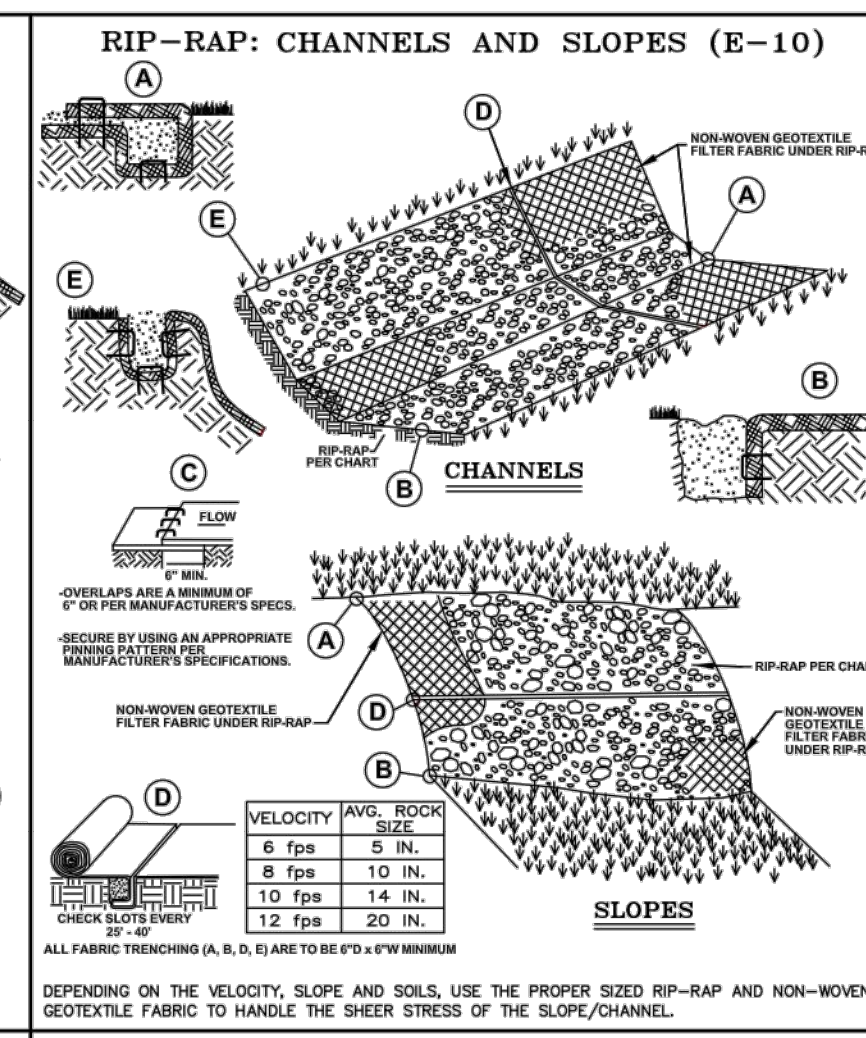
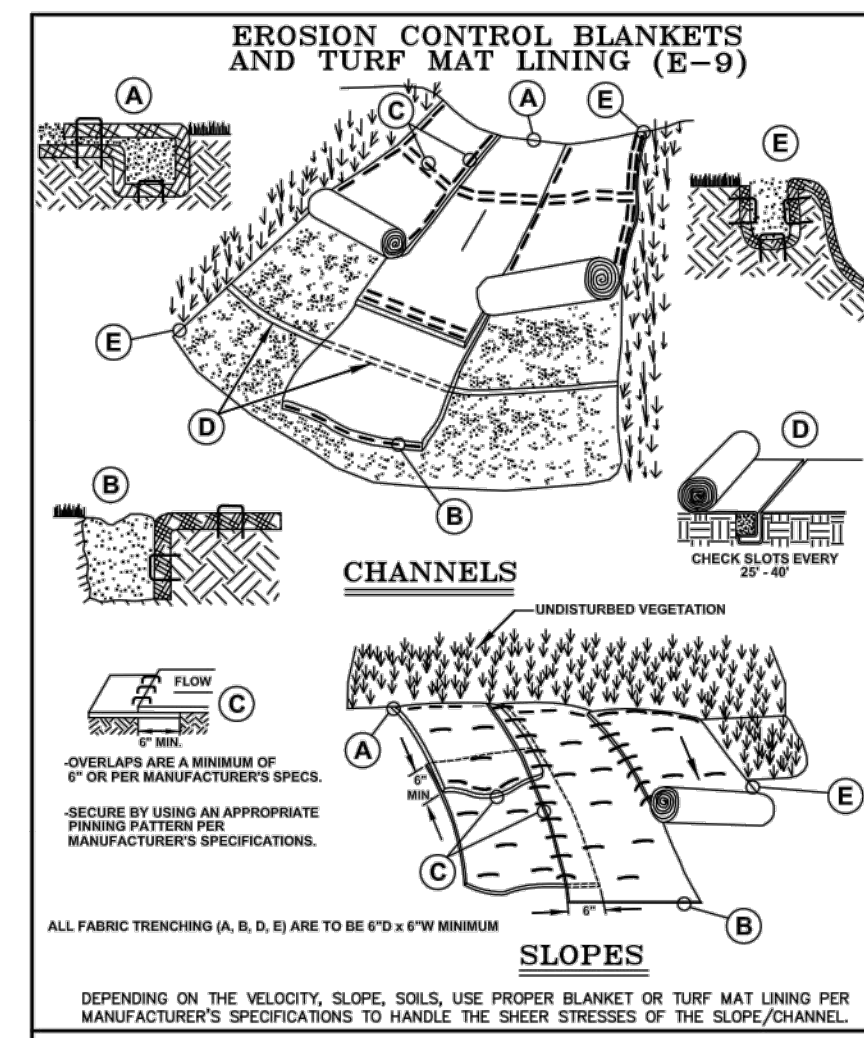
151 MARTIN STREET BIRMINGHAM, MICHIGAN 48102

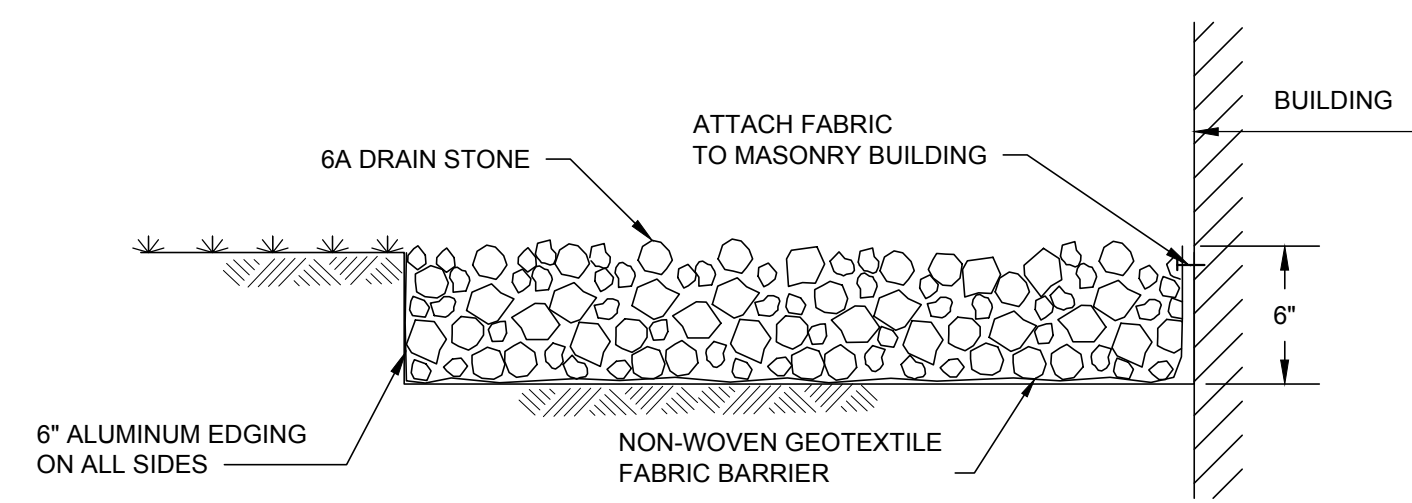
WATER MAIN STANDARD DETAILS

DATE: ADDITION AND/OR REVISION DRAWN: PROJECT NO. SHEET NO.

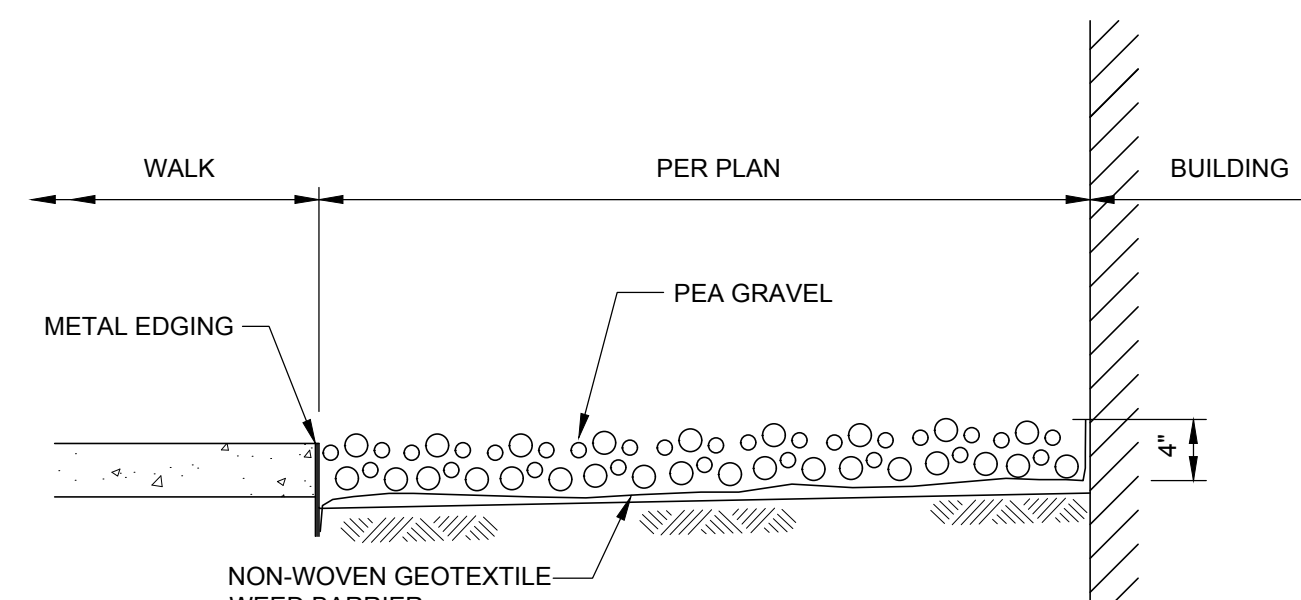
DESIGNED: DATE: APRIL 2005 WM-1

APPROVED: SCALE:

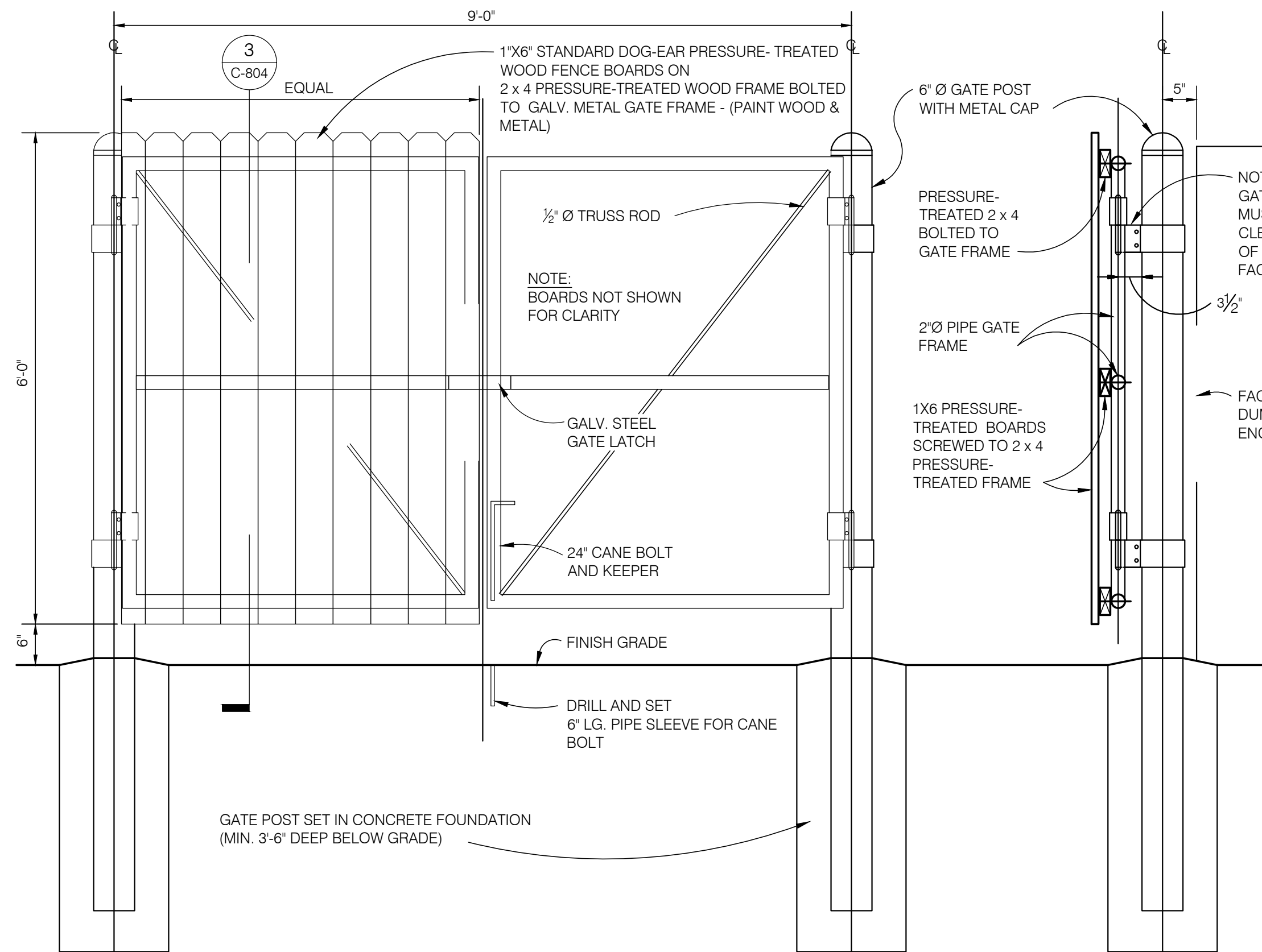




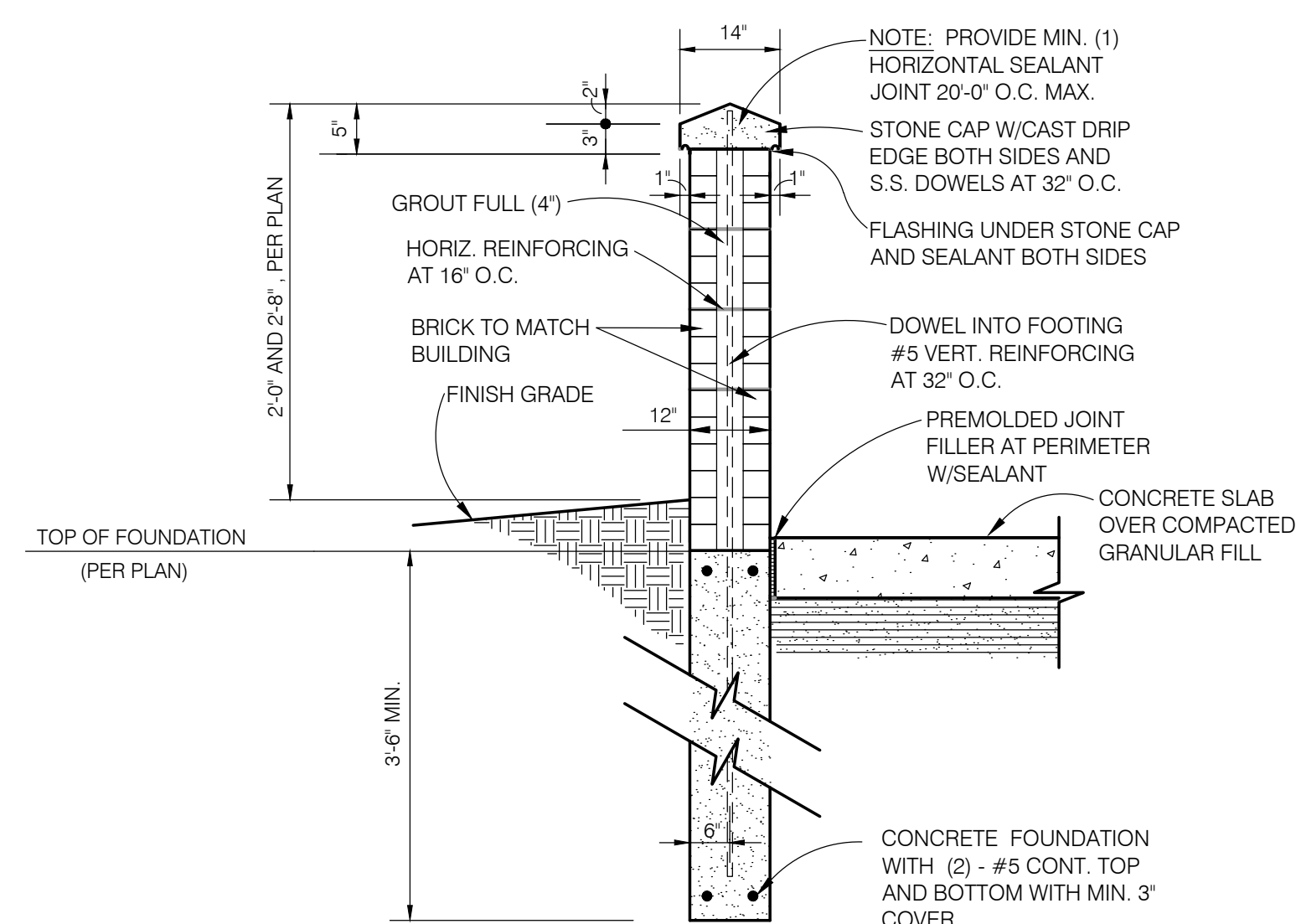
DOWNSPOUT SPLASH PAD



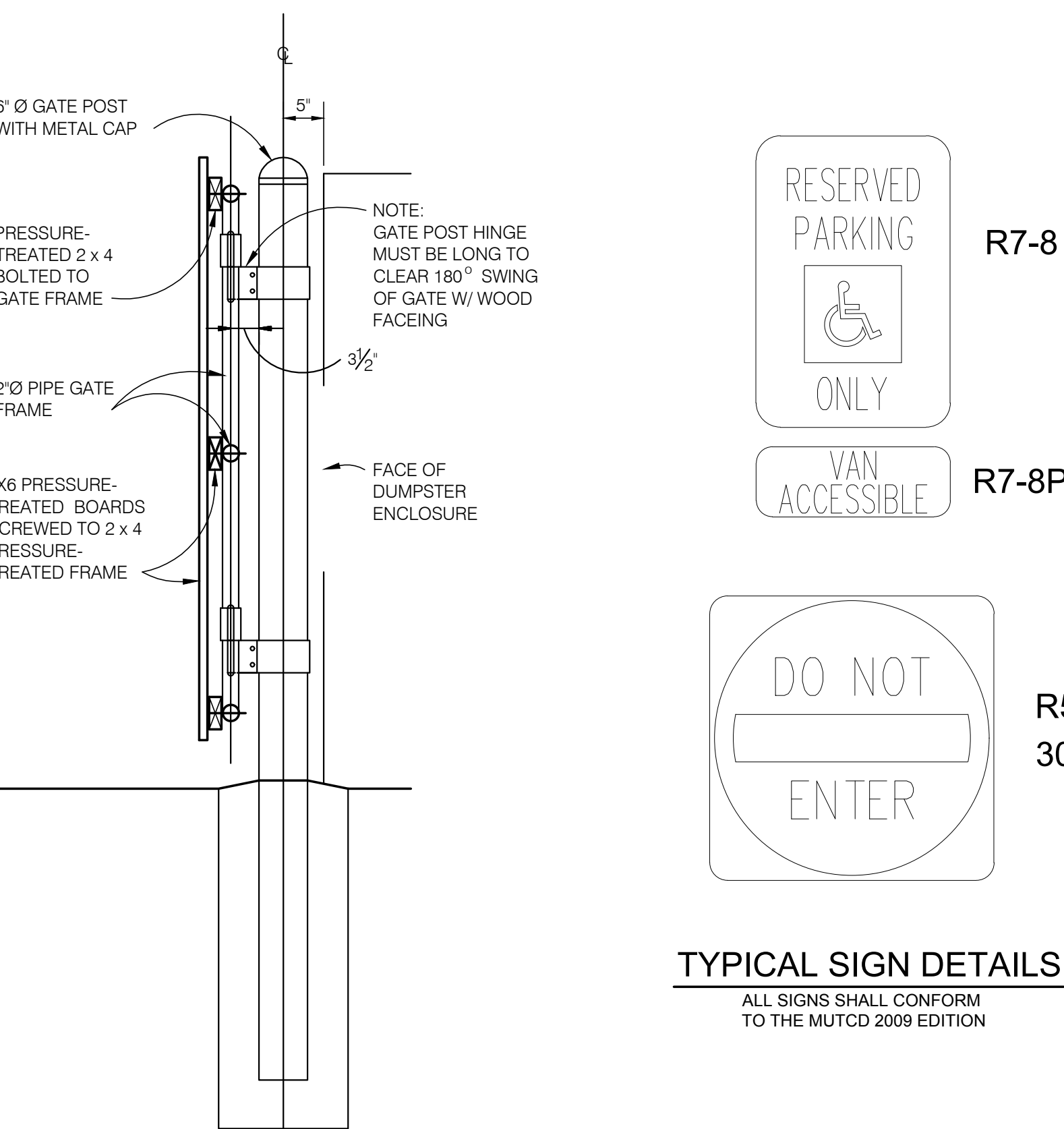
GRAVEL AREA



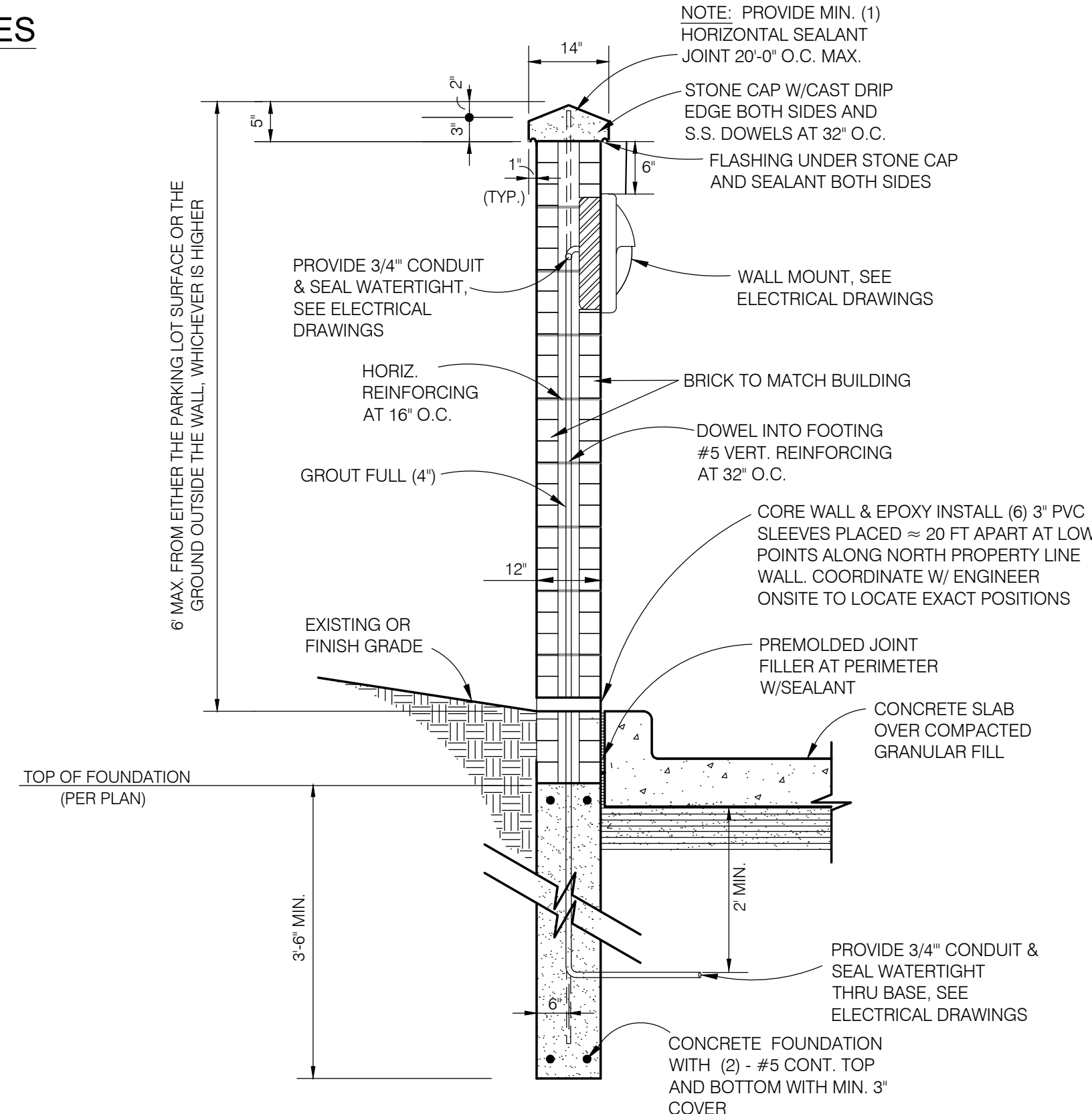
ELEVATION AT DUMPSTER ENCLOSURE GATES
NOT TO SCALE



TYP. SECTION THRU 32" MASONRY SCREEN WALL & 24" MASONRY DECORATIVE WALL
NOT TO SCALE



TYPICAL SIGN DETAILS
ALL SIGNS SHALL CONFORM TO THE MUTCD 2009 EDITION

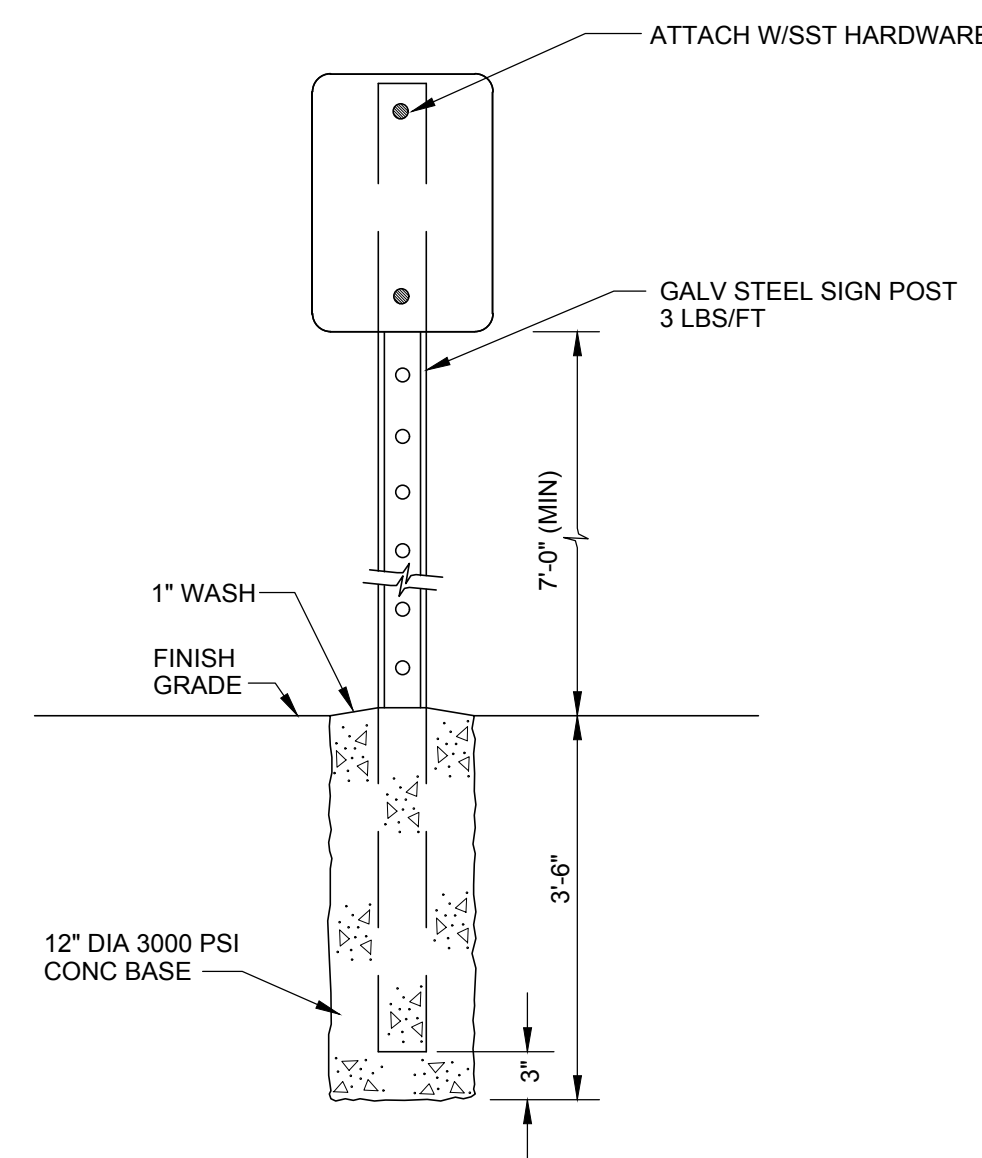


TYP. SECTION THRU 6'-0" MASONRY SCREEN WALL
NOT TO SCALE

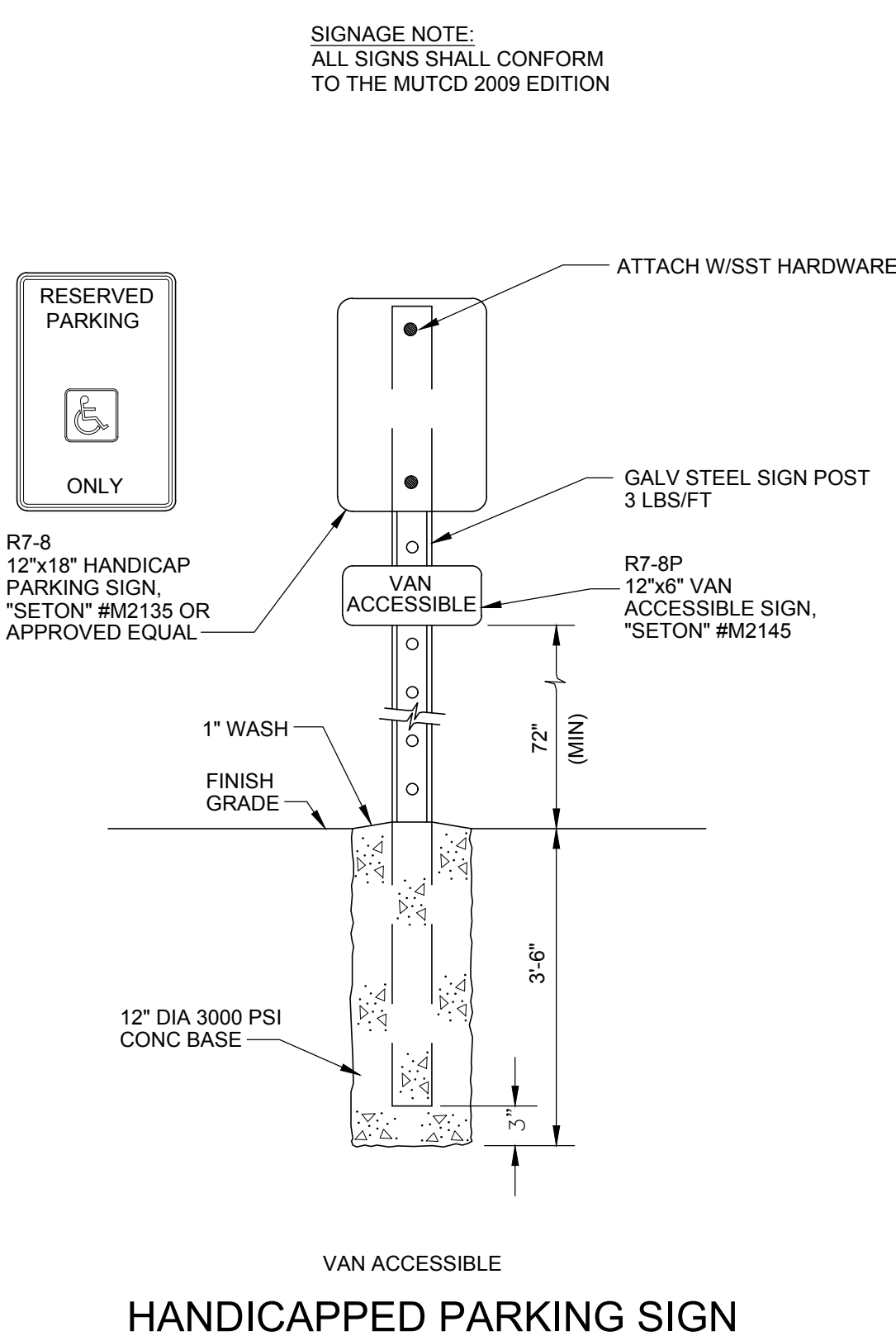
ELECTRICAL NOTE:
1. COORDINATE WALL MOUNT LIGHT FIXTURE WITH ELECTRICAL TRADE.

PAINT COLORS

Applications	Description	Vendor
Parking Meter Posts and Housings; Flag Holder; Handrails; Traffic Control Sign Backs; Pedestrian and Tall Streetlights; Bicycle Racks;	"John W. Hunter" Green DuPont Chromaone Paint. Various primers, activators, and reducers are required.	Johnson's Automotive Paint Supply
Streetlights; Sign Posts; Traffic Controllers; Irrigation Cabinets; and Pedestrian Crossing	Sherwin Williams Industrial & Marine Protective Coating, Color 0W4072	Sherwin-Williams of Royal Oak
Benches and Waste Receptacles supplied by Michigan Playground Equipment and Traffic Signal.	Sherman-Williams Poudura Powder Coating, Product #PGS8-3051, Park Bench Green.	Vendor is Sherwin-Williams of Royal Oak.
Wooden Objects, including Park Benches and Picnic Tables; and	Coronado Gloss Oil Product 31-138 "Birmingham Green" Paint.	Teknicolors
Plastic Housings for Pedestrian Crossing Signals	Krylon Fusion Hunter Green. This product bonds to plastic without sanding or priming.	Neighborhood Hardware

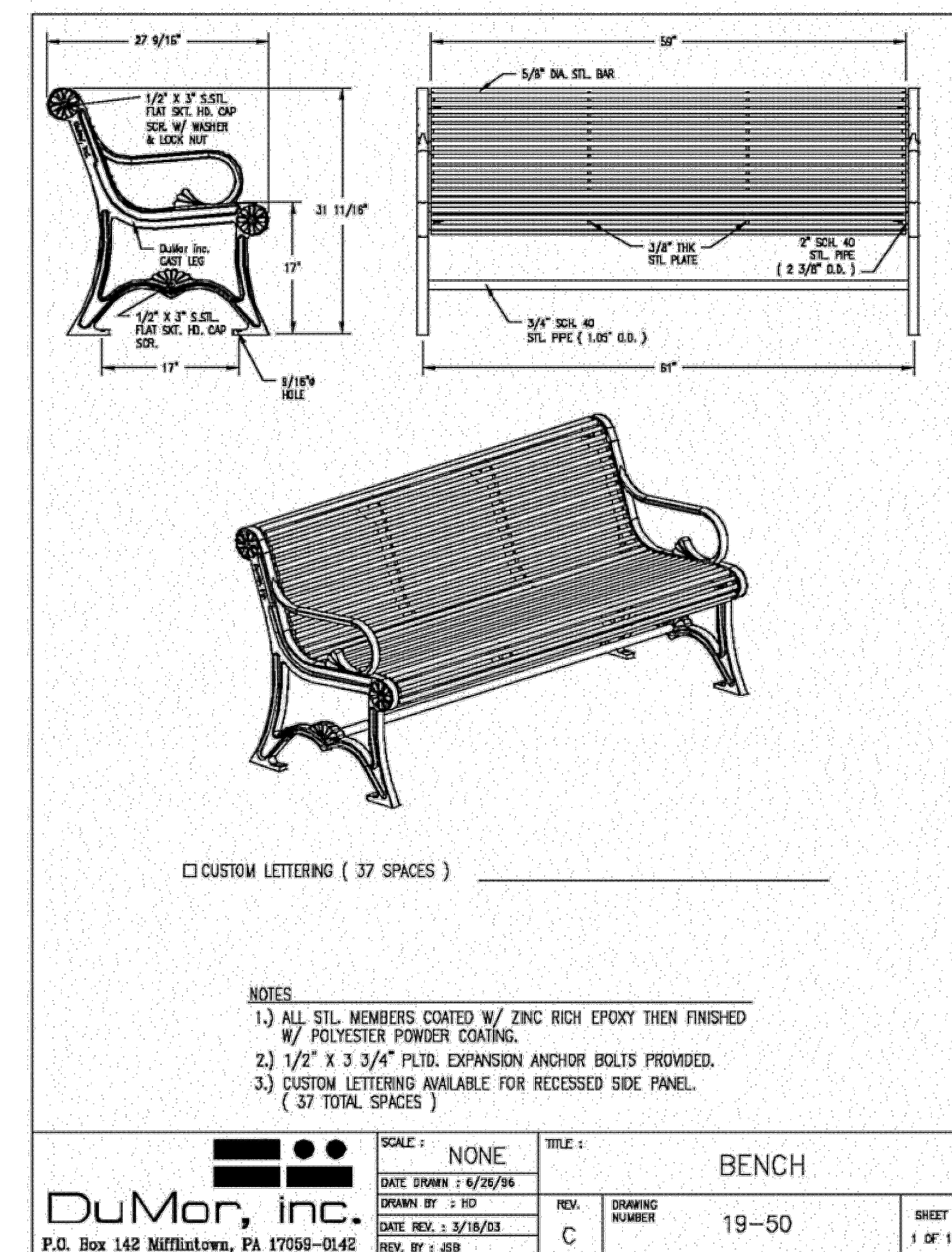
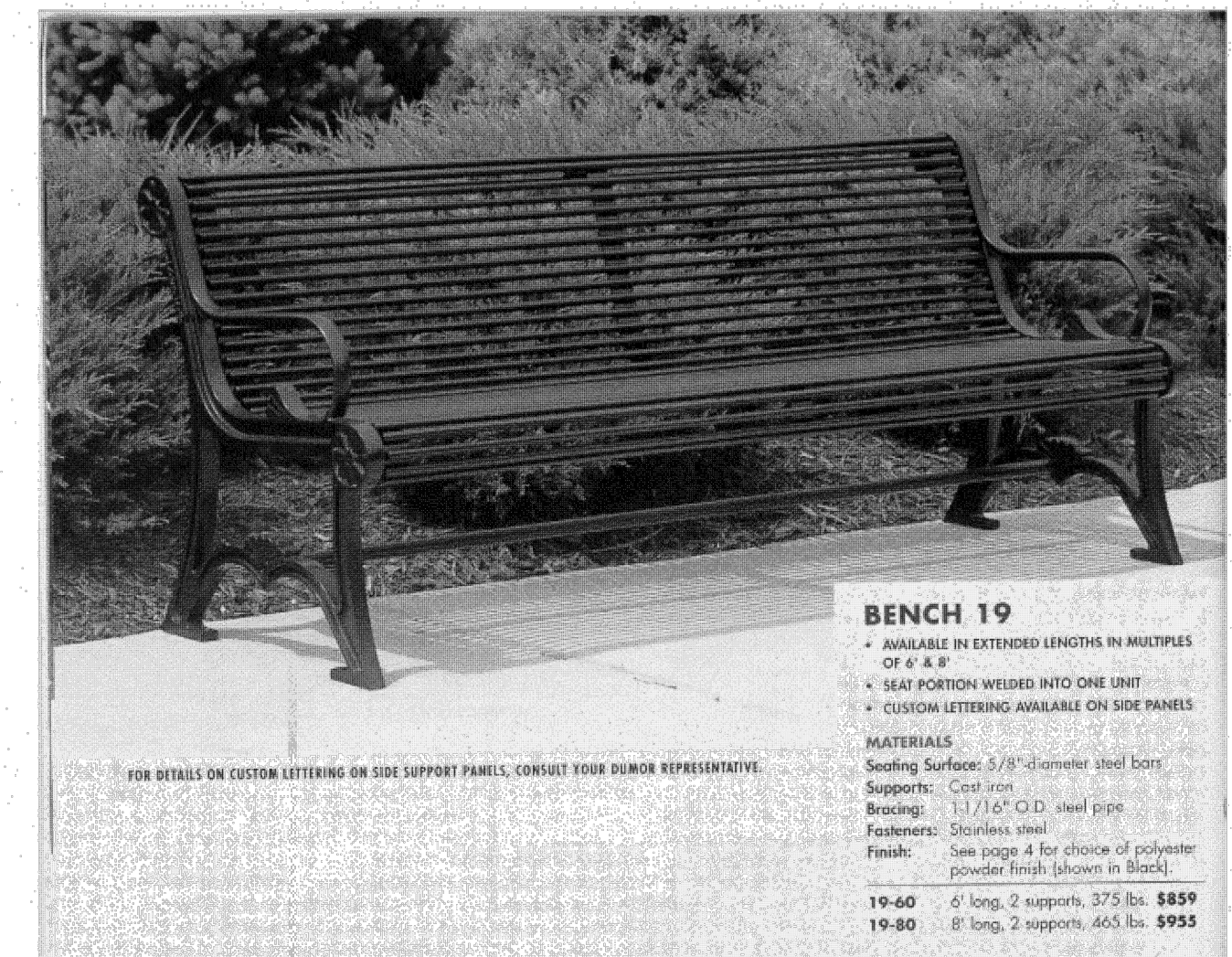


TYPICAL SIGN MOUNTING



HANDICAPPED PARKING SIGN

DOWNTOWN BENCH STANDARDS



BENCH DETAIL

BENCHES SHALL BE 8 FEET LONG, & MEET CITY OF BIRMINGHAM PARK BENCH STANDARDS. BENCH 88PL



Sidcock Group

ARCHITECTS-ENGINEERS-CONSULTANTS

Corporate Headquarters
45650 Grand River Avenue
Novi, Michigan 48374
Ph: (248)349-4500 • Fax: (248)349-1429

Design Studio
43155 Main Street, Suite 2306
Novi, Michigan 48375

Novi • Wyandotte • Muskegon
Lansing • Gaylord • Sault Ste. Marie

www.sidcockarchitects.com
www.sidcockgroup.com

Key Plan: No Scale

Client:
CITY OF BIRMINGHAM

Project:
**BIRMINGHAM
FIRE STATION No. 2**

1600 WEST MAPLE
BIRMINGHAM, MI 48009

Scale:

Date: 07/29/16 Issued For: FINAL REVIEW
Checked: 12/05/16 BIDS

Drawn: MJS
Checked: CL
Approved: SEP

Sheet Title:
SURFACE DETAILS

Project Number: 15566

Sheet Number: **C-804**

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Sidock Group

ARCHITECTS-ENGINEERS-CONSULTANTS

Corporate Headquarters
45650 Grand River Avenue
Novi, Michigan 48374
Ph: (248)349-4500 • Fax: (248)349-1429

Design Studio
43155 Main Street, Suite 2306
Novi, Michigan 48375

Novi • Wyandotte • Muskegon
Lansing • Gaylord • Sault Ste. Marie

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Key Plan: No Scale

Client:
CITY OF BIRMINGHAM

Project:
BIRMINGHAM
FIRE STATION No. 2

1600 WEST MAPLE
BIRMINGHAM, MI 48009

Seal:

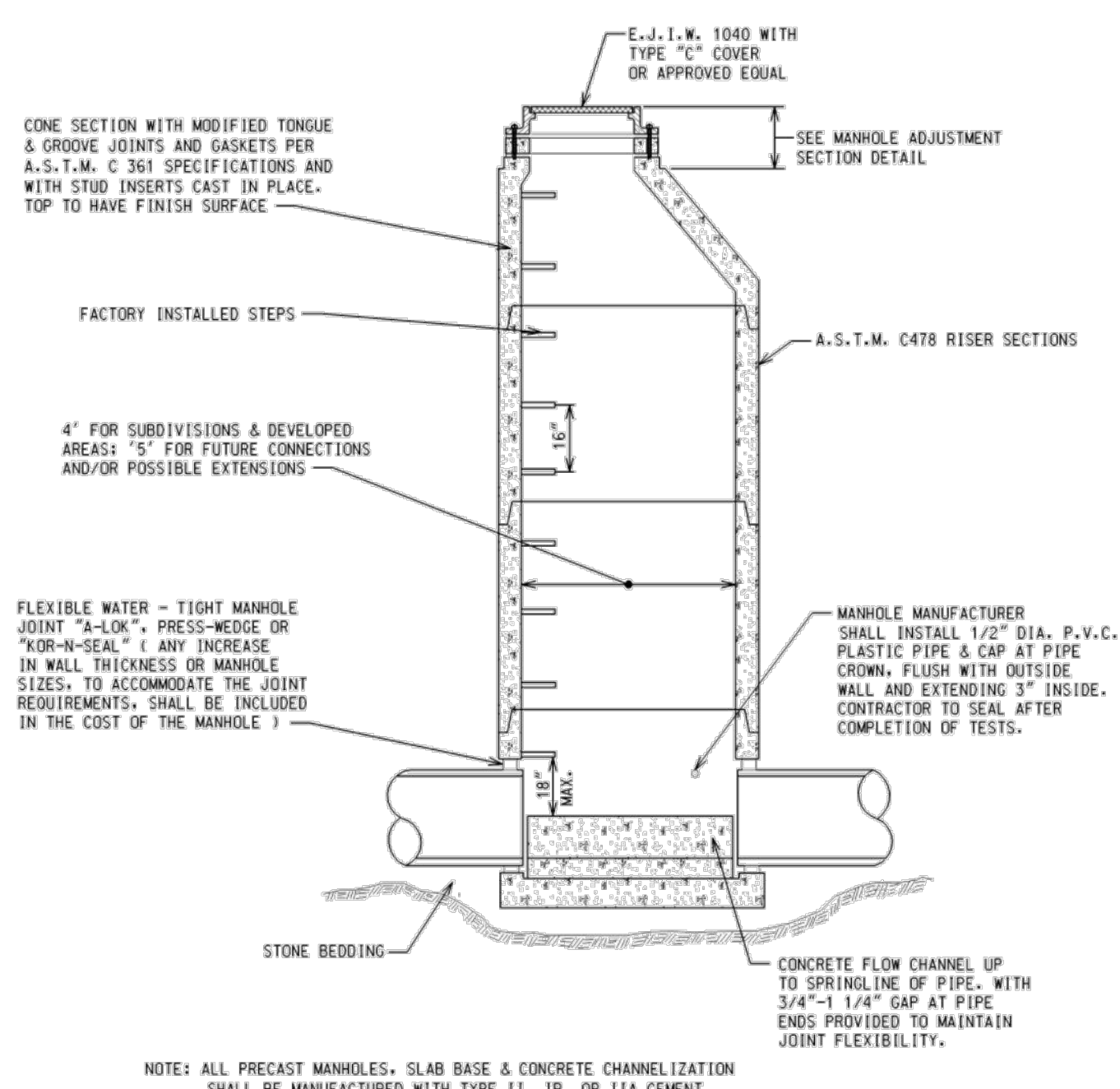
Date: 07/29/16 Issued For: FINAL REVIEW
12/05/16 BIDS

Drawn: MJS
Checked: CL
Approved: SEP

Sheet Title:
CITY OF
BIRMINGHAM
STANDARD SEWER
DETAILS

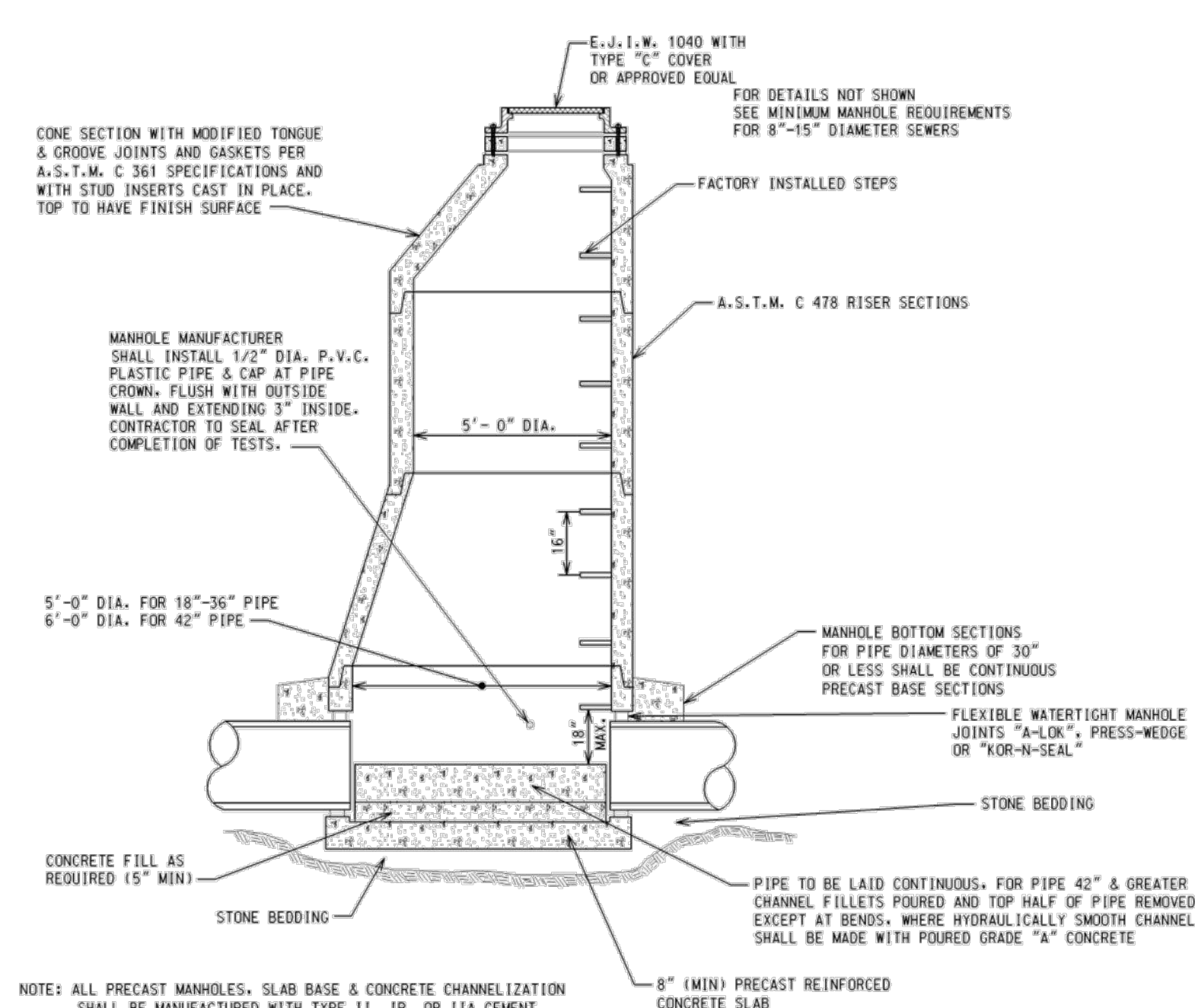
Project Number: 15566

Sheet Number: C-805



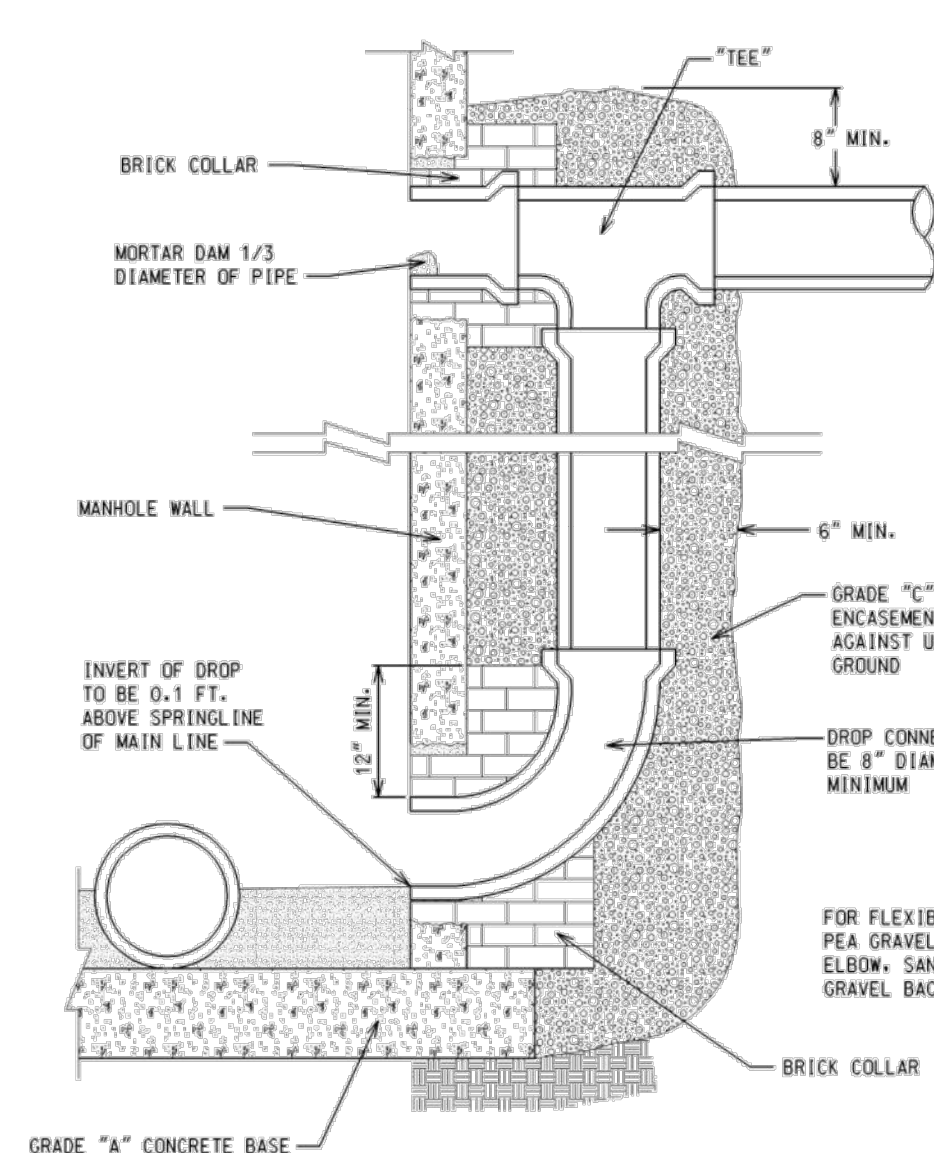
SEWER MANHOLE

(8" THRU 15" DIA. SEWERS)

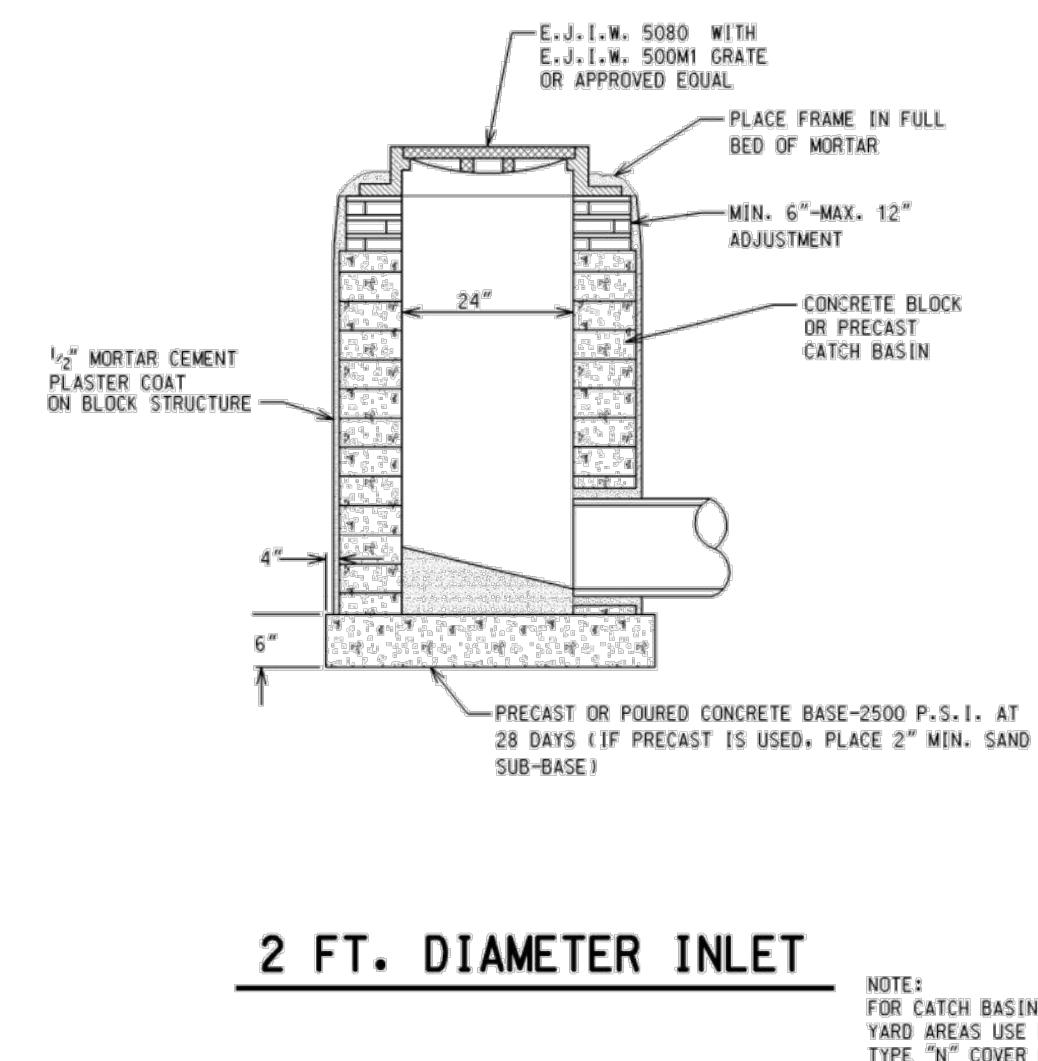


SEWER MANHOLE

(18" THRU 42" DIA. SEWERS)

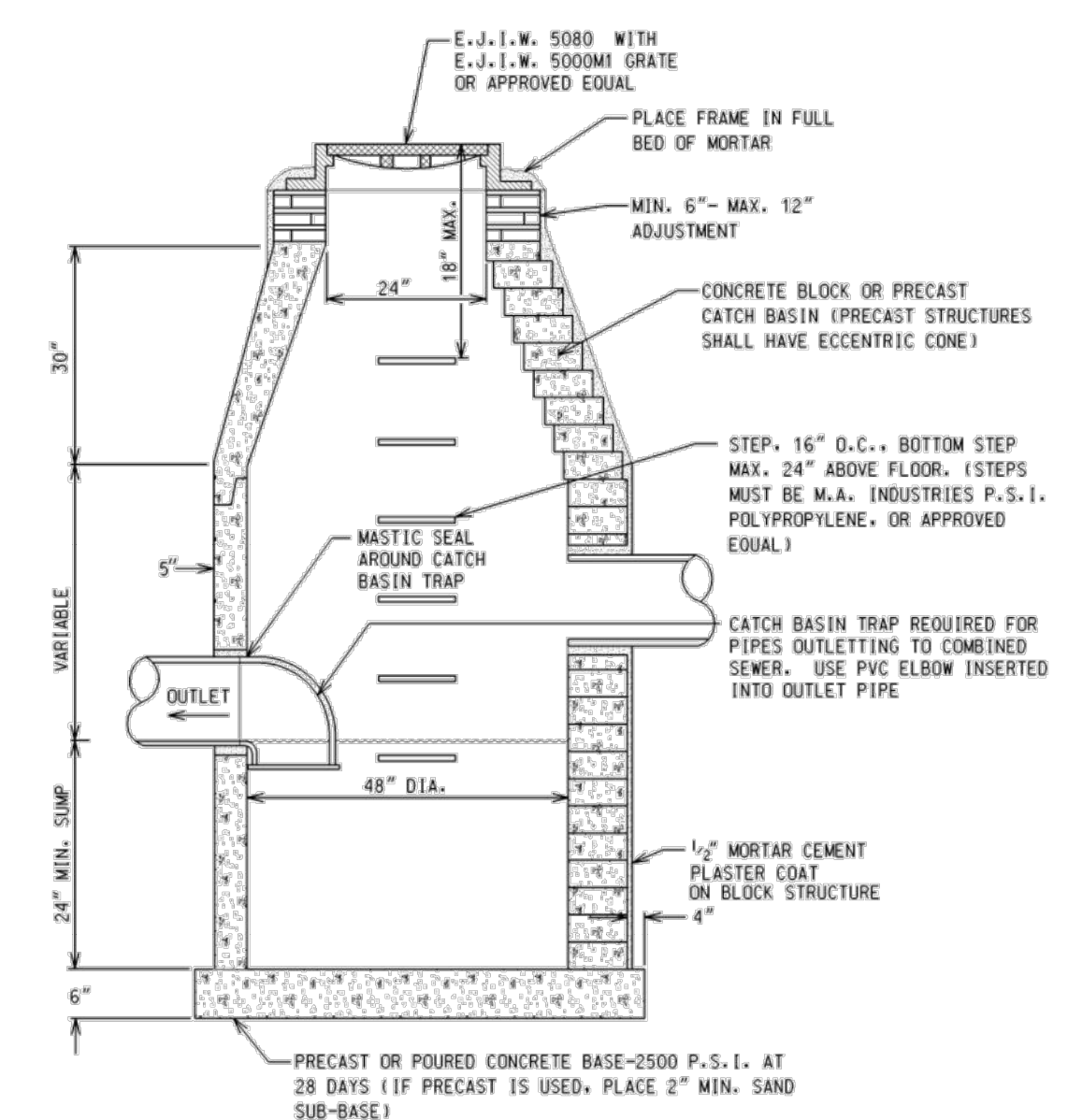


EXTERNAL DROP CONNECTION

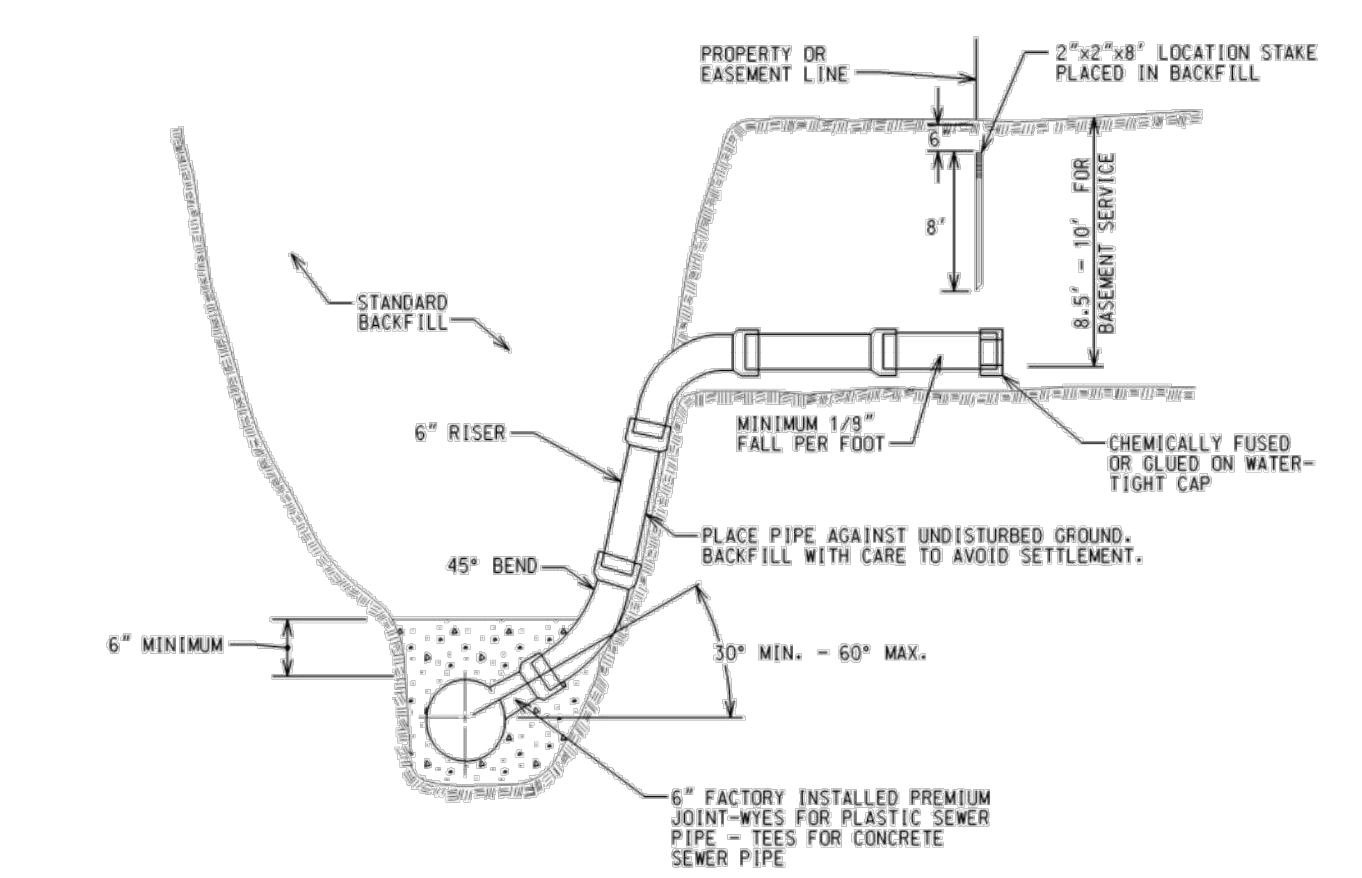


2 FT. DIAMETER INLET

NOTE: FOR CATCH BASINS OR INLETS WITHIN YARD AREAS USE E.J.I.W. 1040 WITH TYPE "N" COVER OR APPROVED EQUAL.

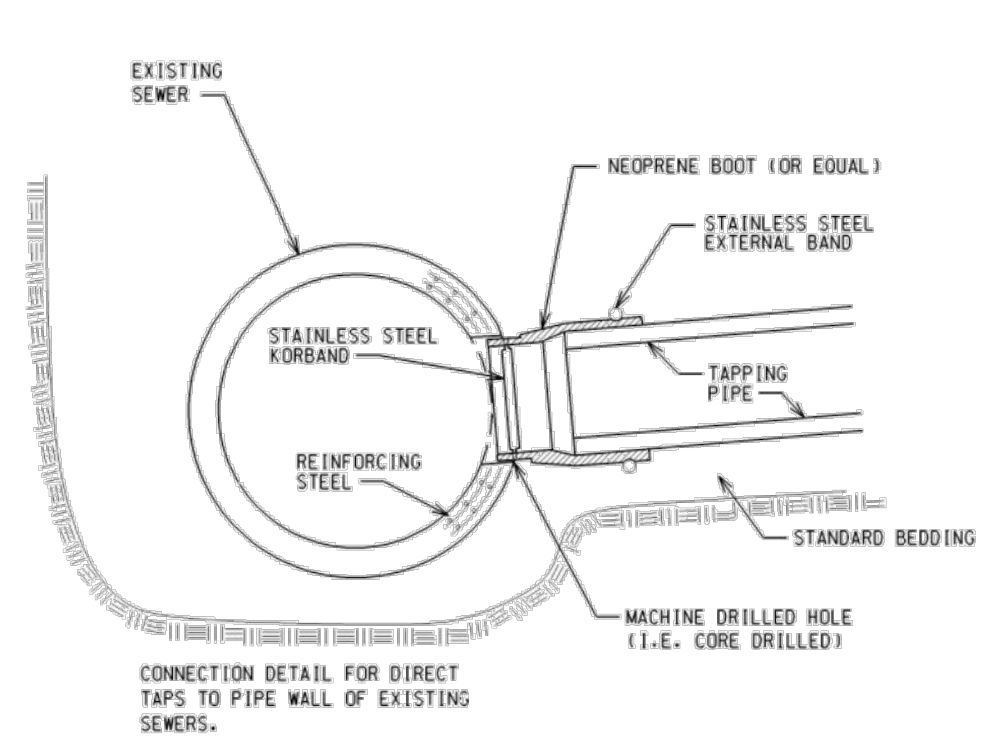


4 FT. DIAMETER CATCH BASIN



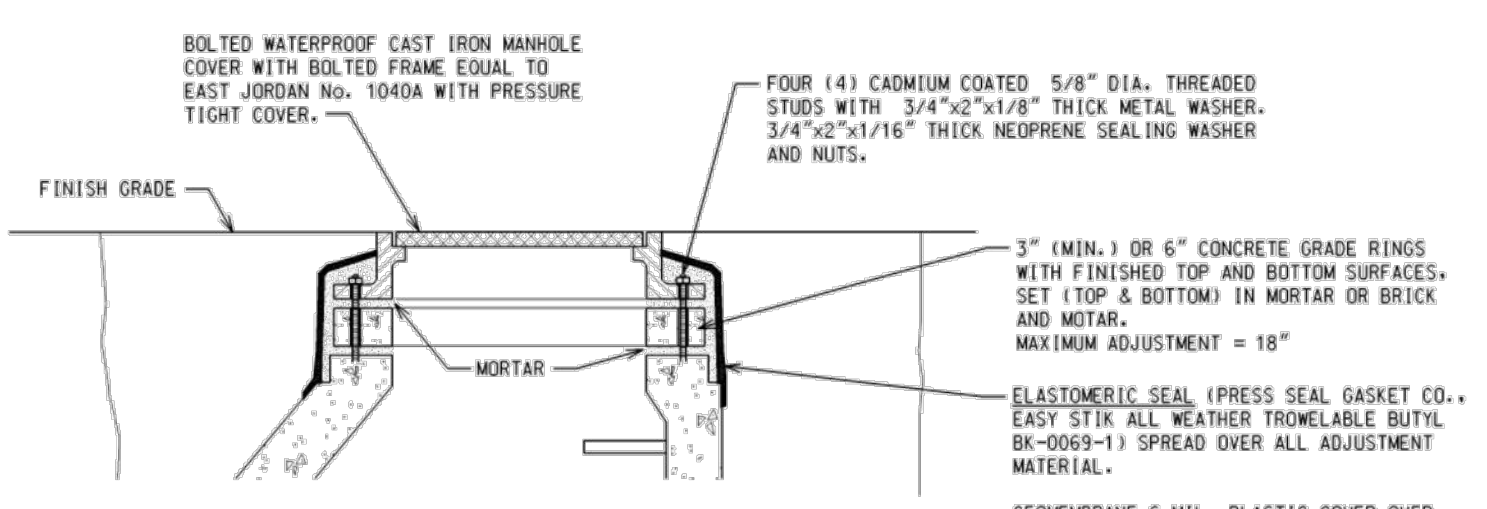
BUILDING LEAD DETAIL

0' - 15' COVER

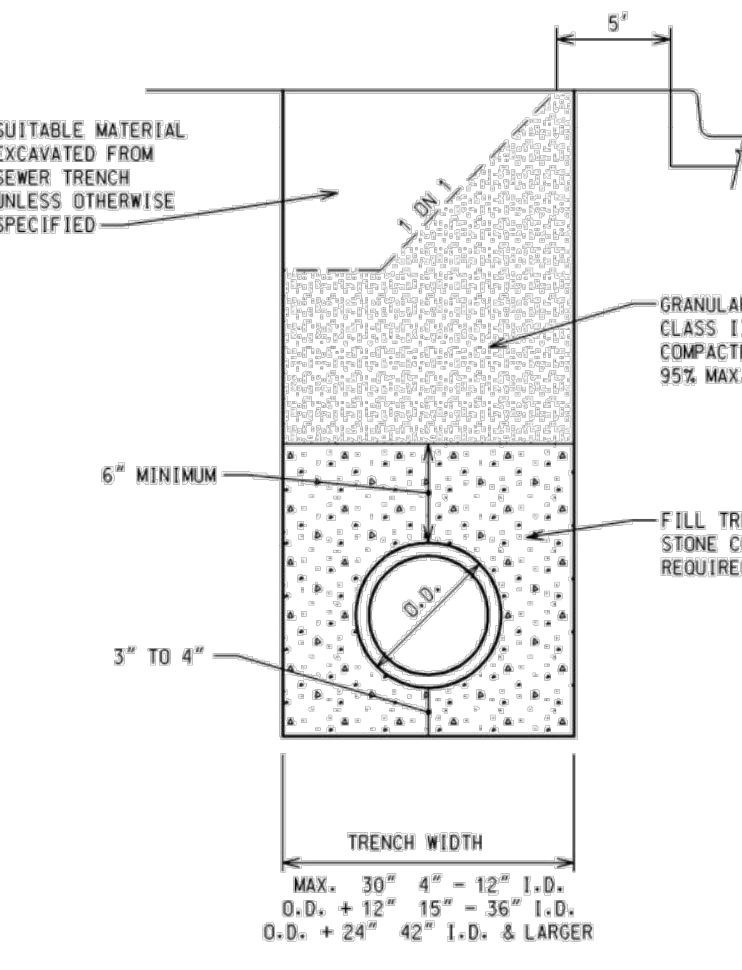


KOR-N-TEE TAP FOR CONCRETE

NO SCALE



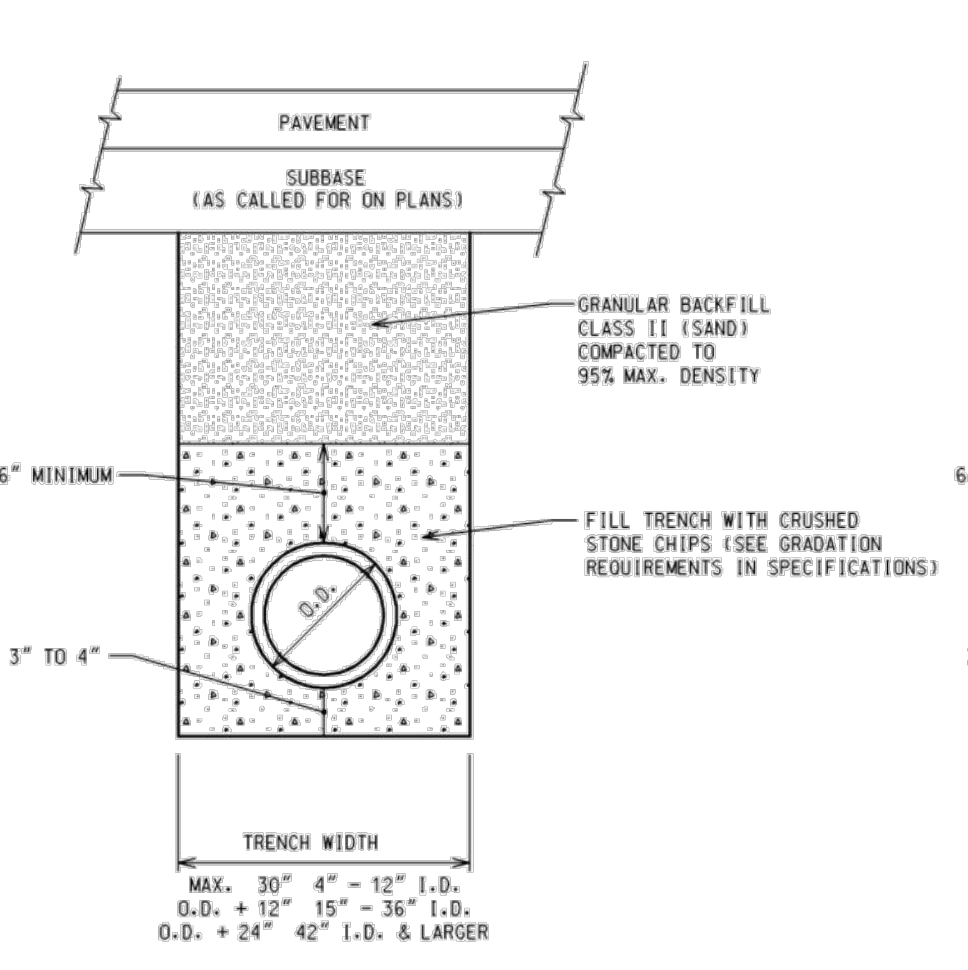
SANITARY MANHOLE ADJUSTMENT SECTION DETAIL



TRENCH DETAIL "A"

SEWER UNDER ROAD BED OR WITHIN THE INFLUENCE OF ROAD BED

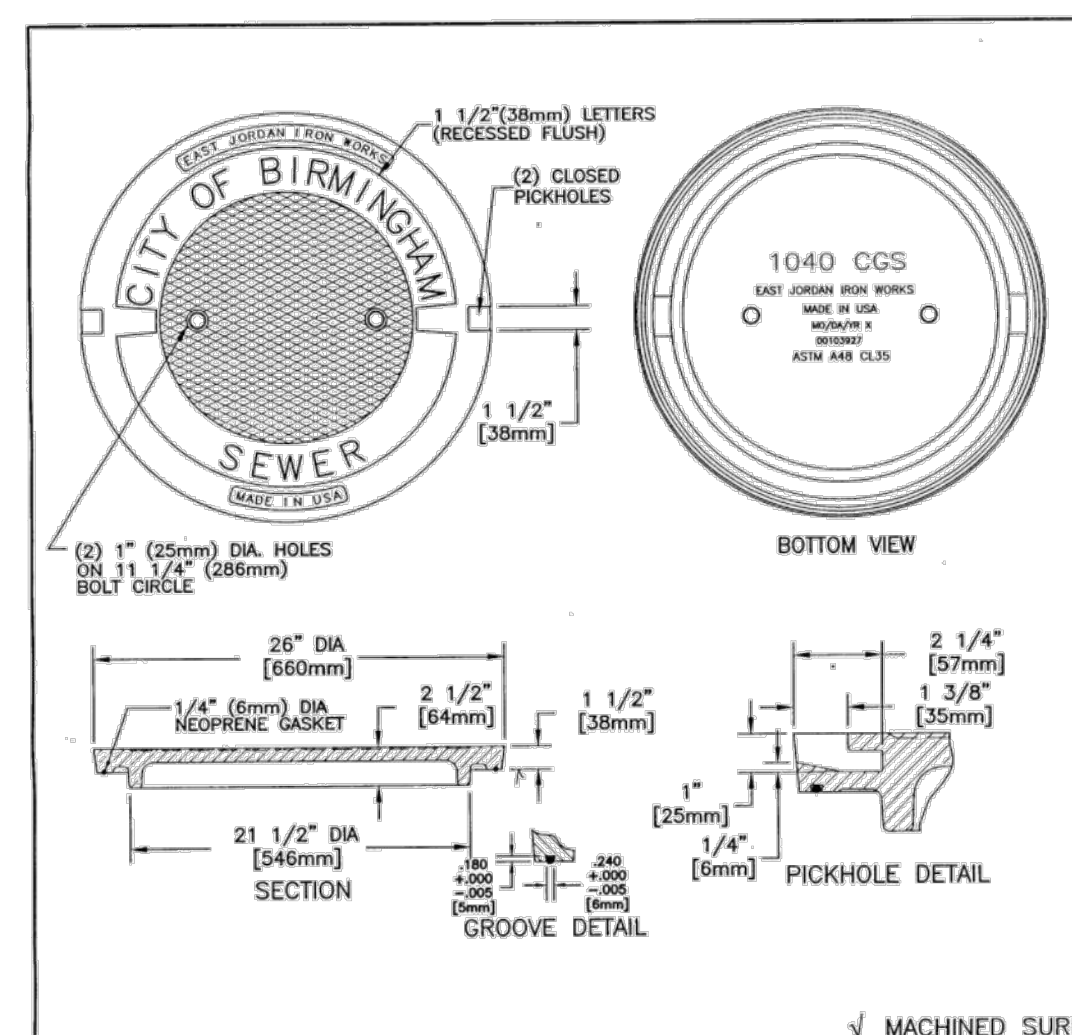
NOT TO SCALE



TRENCH DETAIL "B"

SEWER NOT UNDER ROAD BED

NOT TO SCALE



EAST JORDAN IRON WORKS, INC. P.O. BOX 439 EAST JORDAN, MI 49727 1-800-874-4100 FAX 231-536-4458	
DRAWN	DATE
DEW	04/27/02
APPROVED	DATE
SPECIAL LETTERED 2 HOLE COVER	
PRODUCT NO.	00103927
CATALOG NO.	1040CGS
REF. PRODUCT DRAWING	104237
EST. WT.	150 LBS 68kg
OPEN AREA	N/A
MAT'L SPEC.	COVER - GRAY IRON ASTM A18 CL35
LOAD RATING	HEAVY DUTY

City of Birmingham
A Walkable Community

151 MARTIN STREET BIRMINGHAM, MICHIGAN 48102

SEWER STANDARD DETAILS

DATE:	ADDITION AND/OR REVISION	DRAWN:	PROJECT NO.	SHEET NO.
		DESIGNED:	DATE	
		APPROVED:	SCALE	



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Novi, Michigan 48374
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Key Plan: No Scale

Client:
CITY OF BIRMINGHAM

Project:
**BIRMINGHAM
FIRE STATION No. 2**

1600 WEST MAPLE
BIRMINGHAM, MI 48009

Seal:

Date: 07/29/16 Issued For: FINAL REVIEW
12/05/16 BIDS

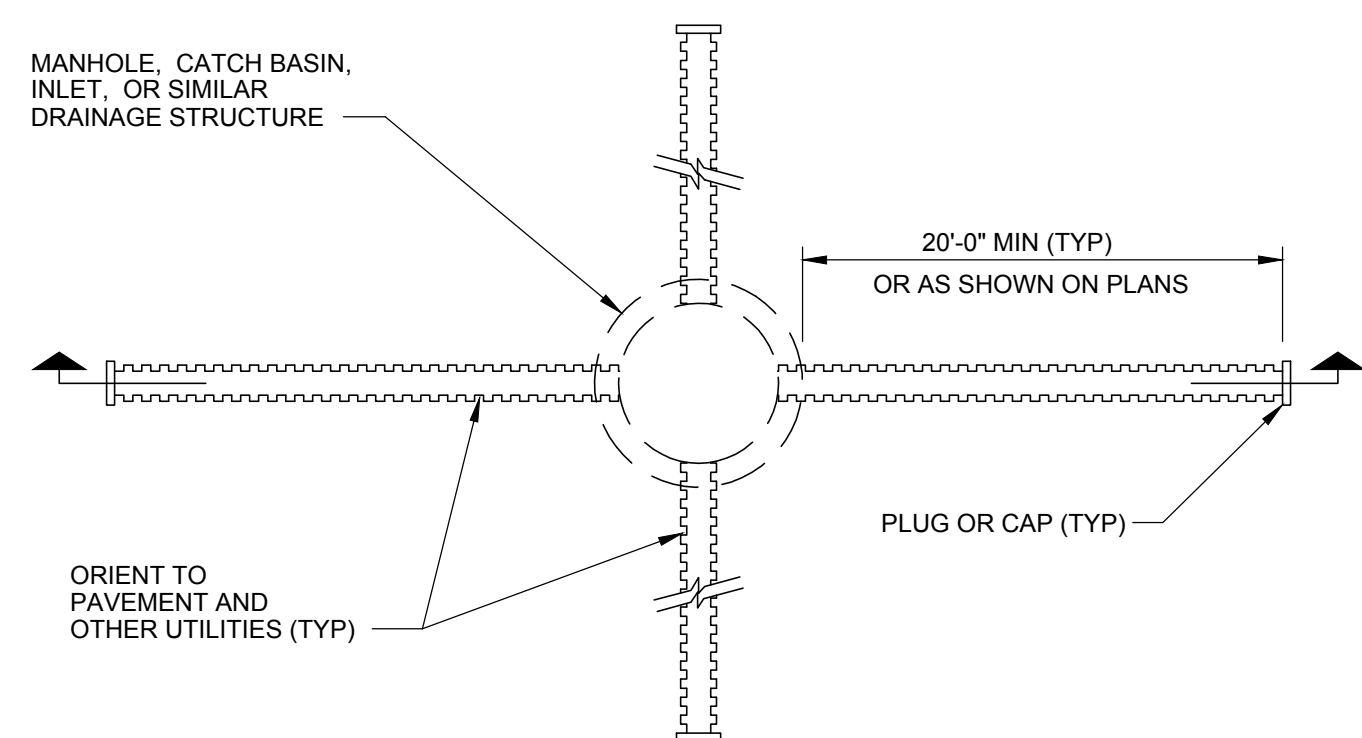
Drawn: MJS
Checked: CL
Approved: SEP

Sheet Title:
**STORM SEWER
DETAILS &
PROFILES**

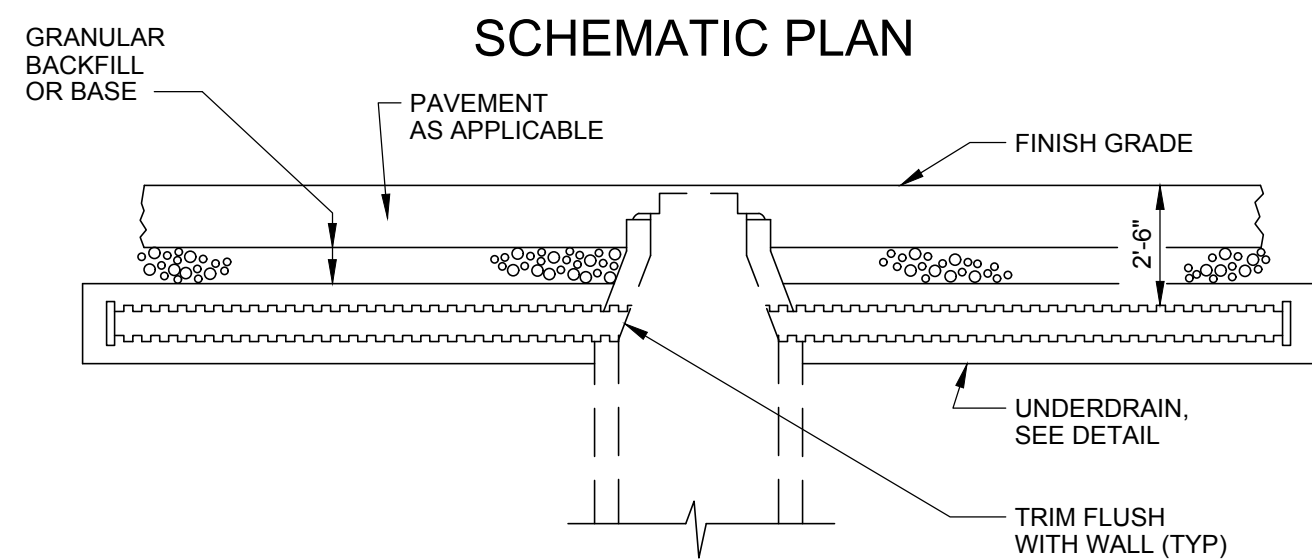
Project Number: 15566

Sheet Number: **C-806**

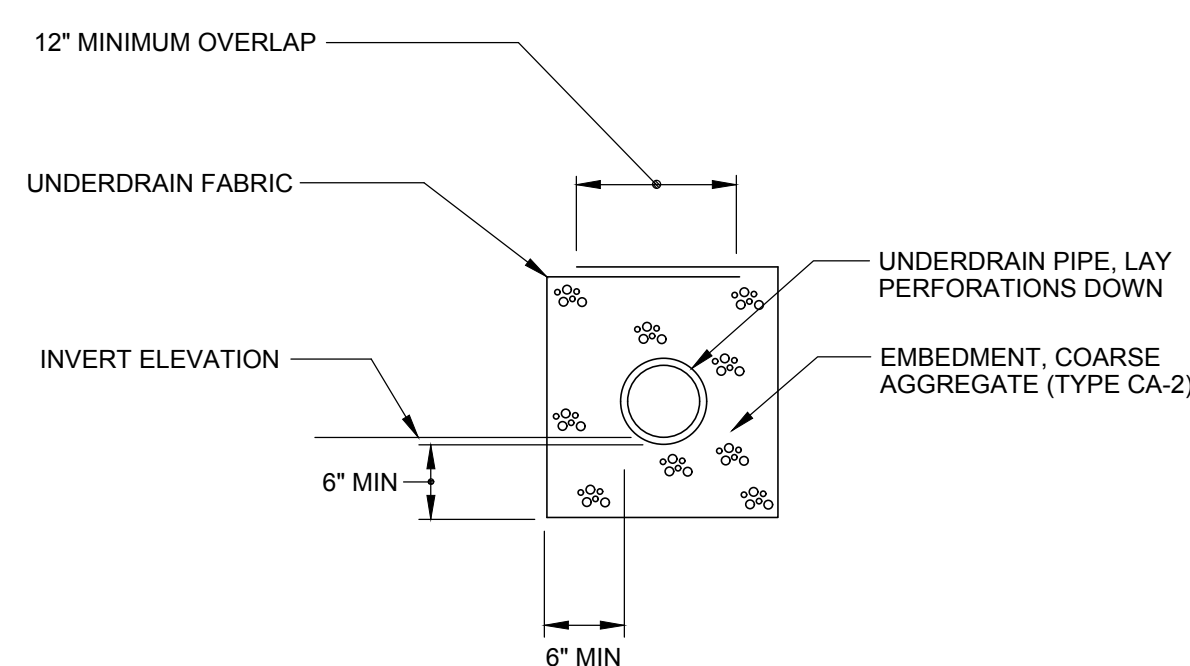
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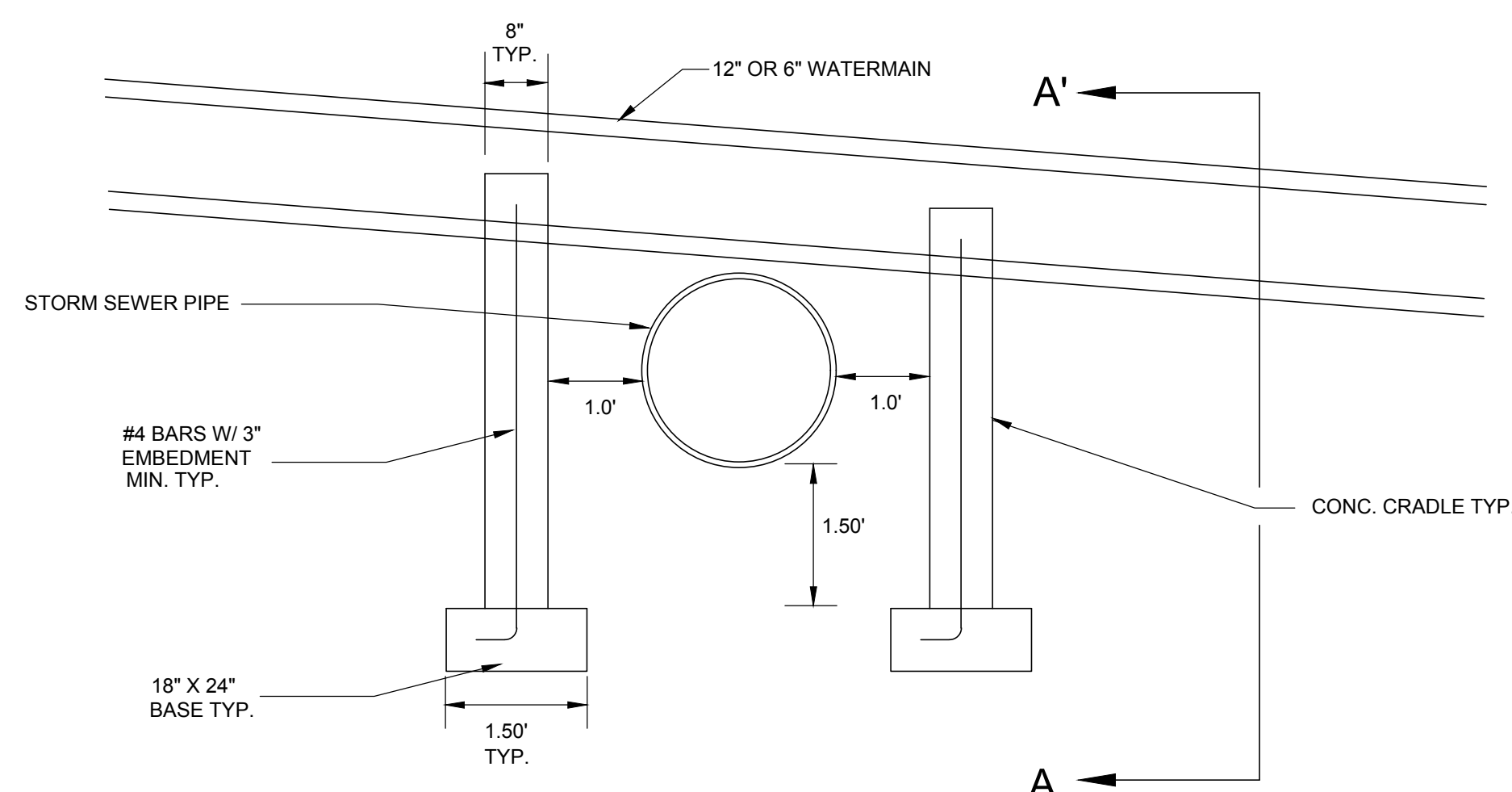
SCHEMATIC PLAN



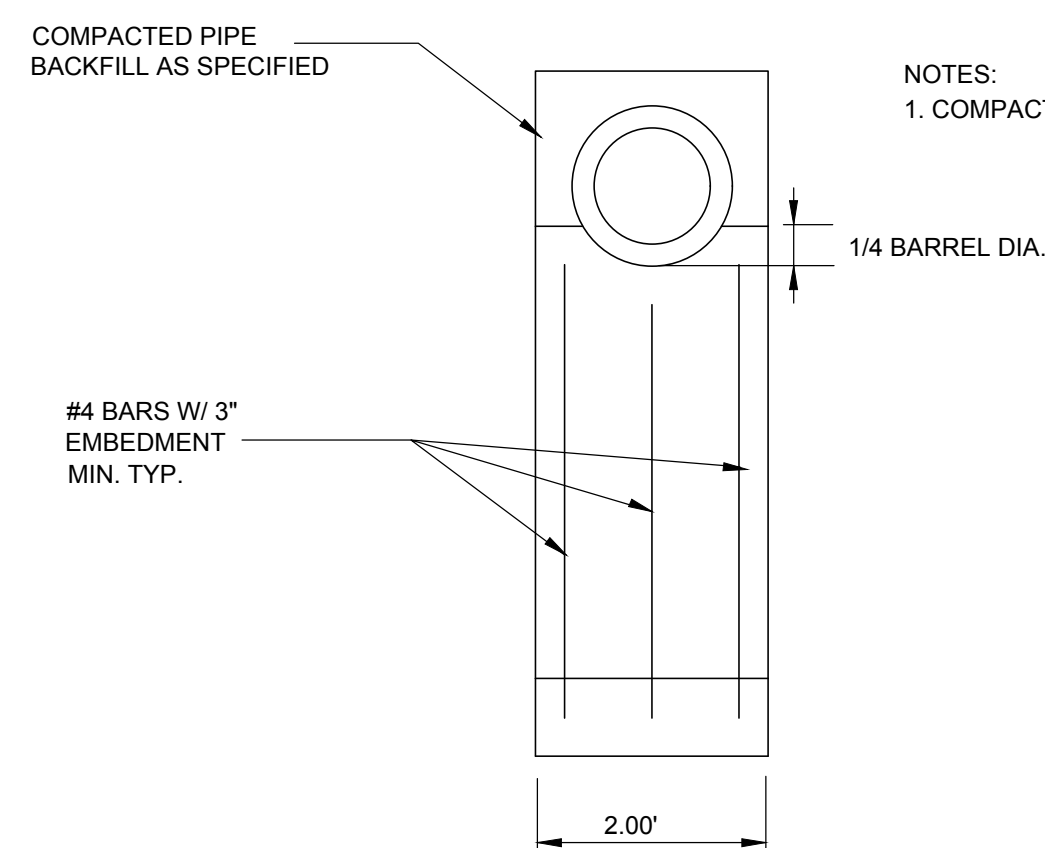
**SECTION
STUB UNDERDRAIN**



UNDERDRAIN

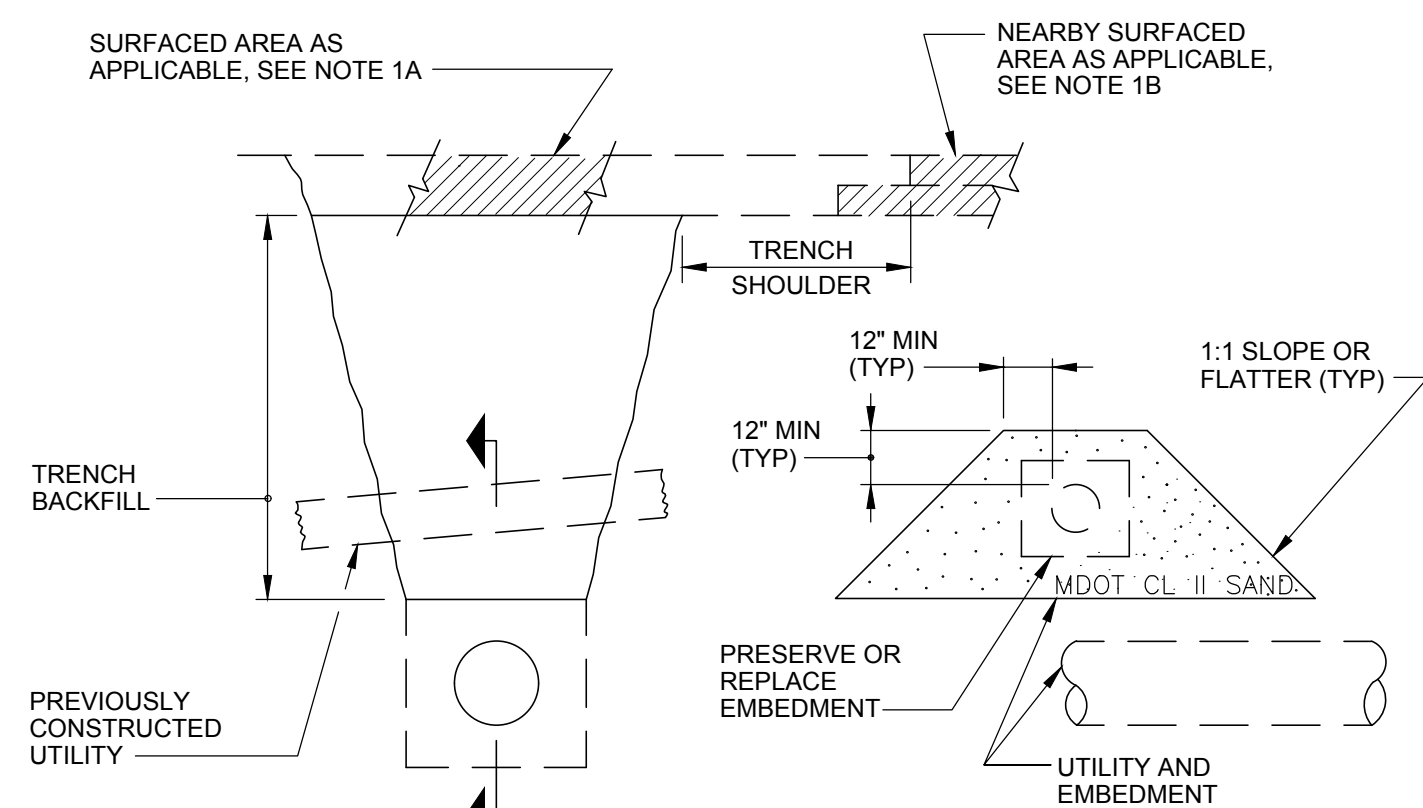


NOTES:
1. COMPACT SOIL BELOW CRADLE TO 98% MAX.



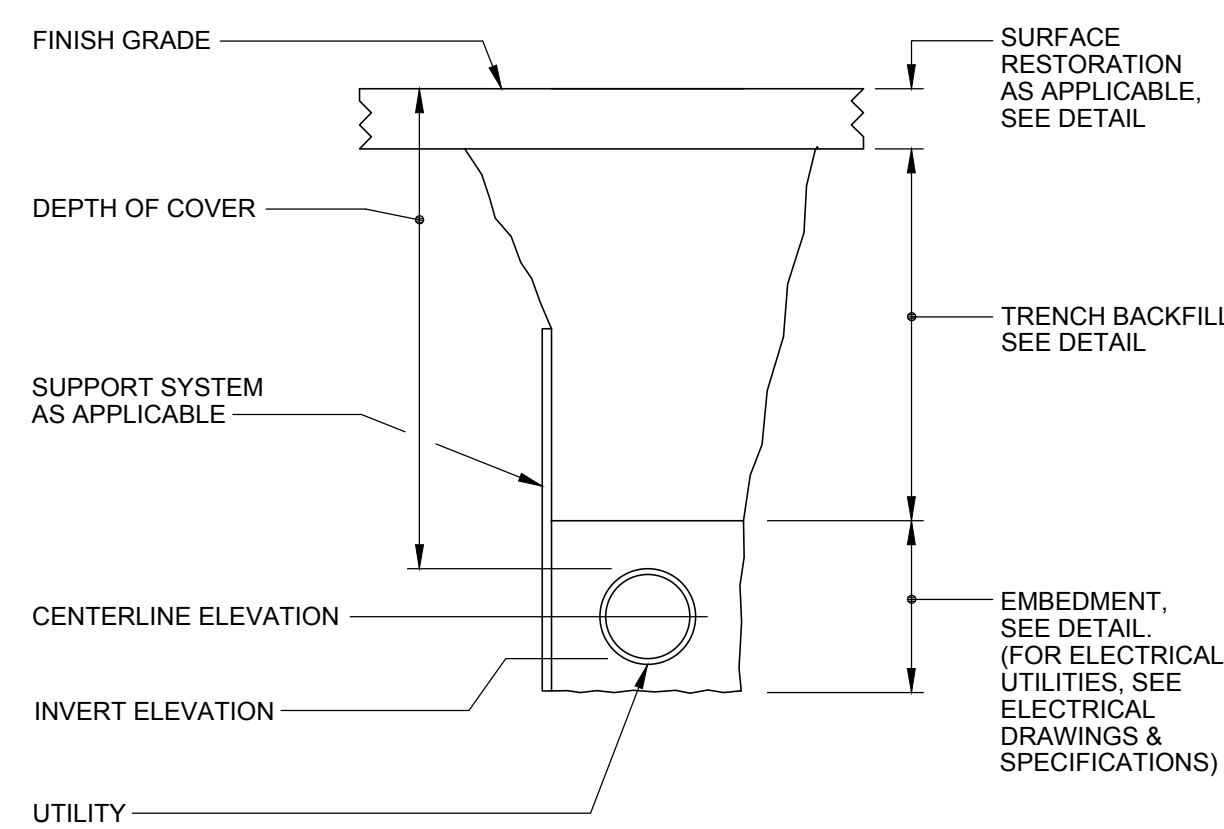
**SECTION A-A'
TYPICAL PIPE CRADLE**

- NOTES:
- TRENCH BACKFILL TYPE MDOT CLASS II SAND:
 - UNDER PORTLAND CEMENT OR ASPHALT CONCRETE, OR AGGREGATE SURFACED AREAS, SUCH AS ROADS, WALKS, PARKING LOTS, OR SHOULDERS, INCLUDING TRENCHES IN EXISTING OR FUTURE LOCATIONS.
 - WHERE TRENCH SHOULDER IS 2'-0" OR LESS.
 - UNDER PREVIOUSLY-CONSTRUCTED UTILITIES, SEE SECTION.
 - WITHIN BUILDING WALL LINES
 - TRENCH BACKFILL TYPE E:
 - ALLOWED FOR OTHER EXTERIOR AREAS IF OTHER TYPES ARE NOT INDICATED.
 - TYPE GM-2 MAY BE SUBSTITUTED.



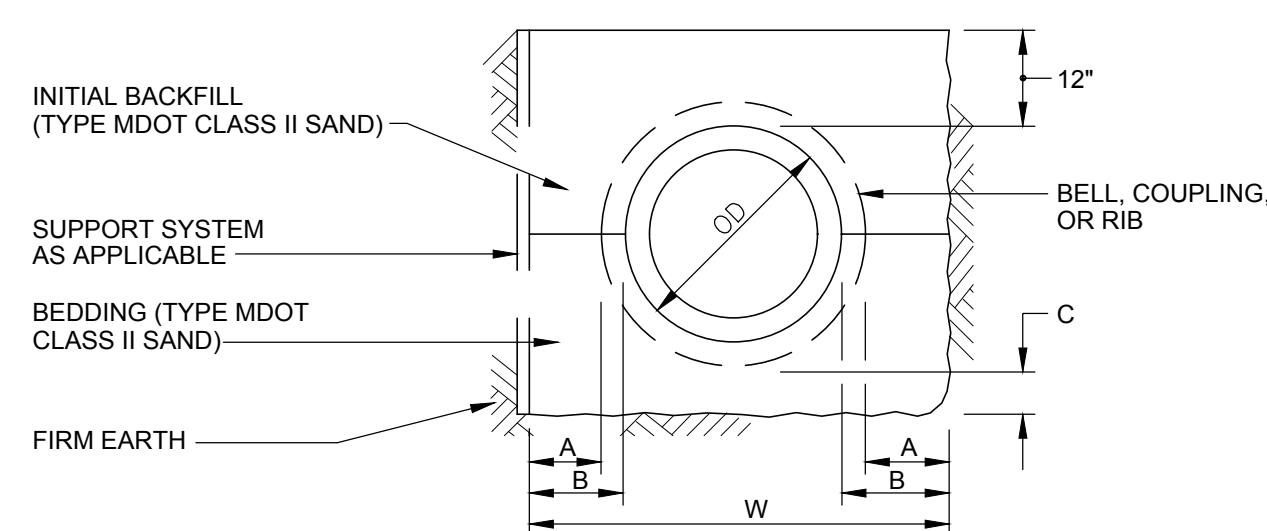
**SCHEMATIC TRENCH
SECTION
TRENCH BACKFILL**

- NOTES:
- "UTILITY" INCLUDES WATER MAINS, CULVERTS, SEWERS, OTHER SITE UNDERGROUND PIPING AND ELECTRICAL CONDUITS, CONCRETE ENCASED DUCTS, AND DIRECT BURIAL CABLES.
 - SUPPORT SYSTEM: PROVIDE AS REQUIRED FOR EXCAVATION PROTECTION, AS INDICATED, AND TO ALLOW REQUIRED COMPACTION. MAINTAIN COMPACTION DURING REMOVAL.

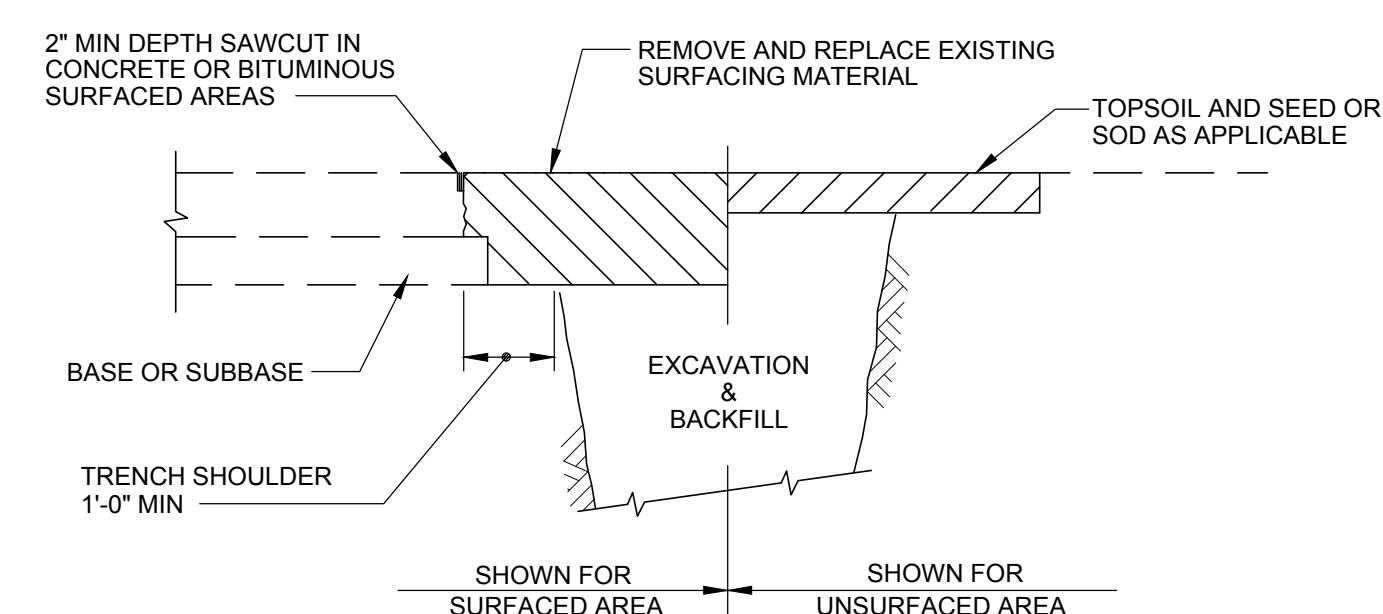


UTILITY/TRENCH

- NOTES:
- DIMENSIONS: A: 6" MIN; B: 8" MIN; W: 1/4 OD MIN IN ROCK; C: 1/8 OD 4" MIN IN EARTH; 6" MIN IN ROCK.
 - BEDDING: SHAPE TO PROVIDE FULL LENGTH SUPPORT FOR PIPE BARREL AND TO PREVENT POINT LOADING AT BELL, COUPLING, OR RIB.



EMBEDMENT



SURFACE RESTORATION



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Corporate Headquarters
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Novi, Michigan 48374
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Key Plan: No Scale

Client:
CITY OF BIRMINGHAM

Project:
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FIRE STATION No. 2**

1600 WEST MAPLE
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Seal:

Date: 07/29/16 Issued For: FINAL REVIEW
12/05/16 BIDS

Drawn: MJS
Checked: CL
Approved: SEP

Sheet Title:
LANDSCAPE PLAN

Project Number: 15566

Sheet Number: **L-200**

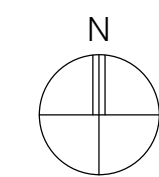
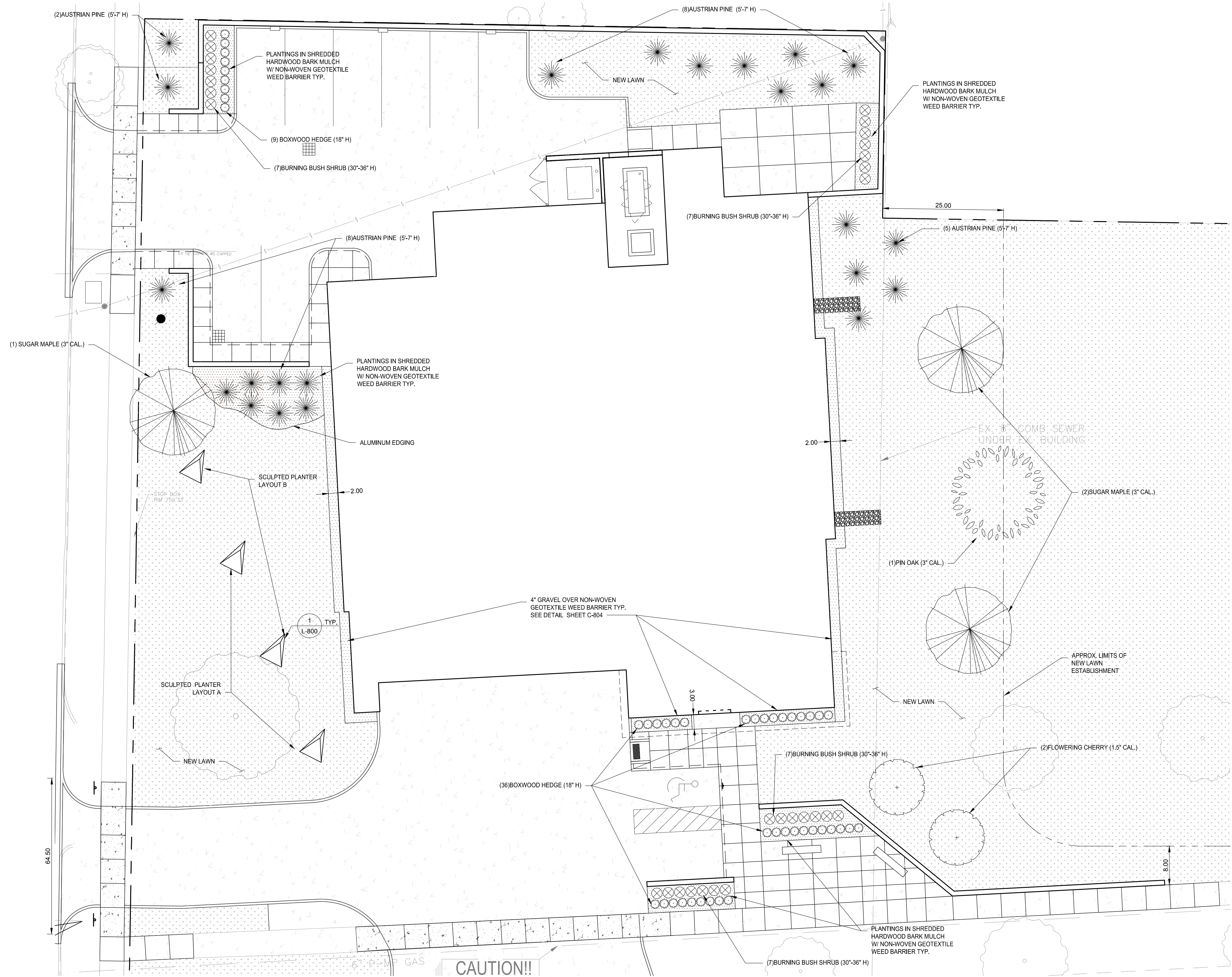
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LANDSCAPING SCHEDULE

SYMBOL	SPECIES	QUANTITY	INSTALL SIZE
○	BOXWOOD HEDGE	45	18" HIGH
⊙	AUSTRIAN PINE	23	6-7' HIGH
⊙	FLOWERING CHERRY (SINGLE STEM)	2	1.5" CAL.
⊙	SUGAR MAPLE	3	3" CAL.
⊙	PIN OAK	1	3" CAL.
⊙	BURNING BUSH - (SHRUB FORM)	28	30"-36" HIGH

NOTES:

- 1. SEE SHEET L-800 FOR LANDSCAPING DETAILS



LANDSCAPE PLAN

SCALE: 1" = 10'



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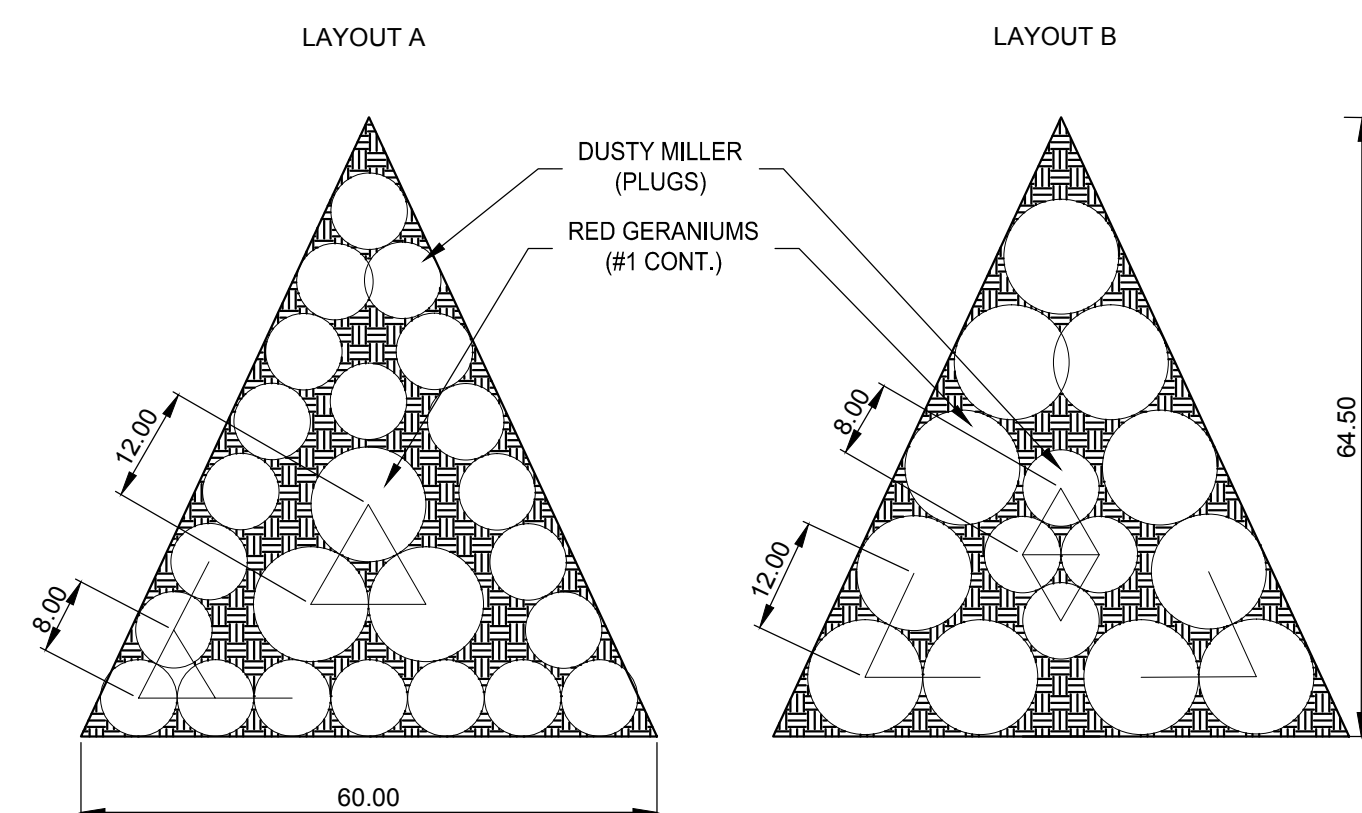
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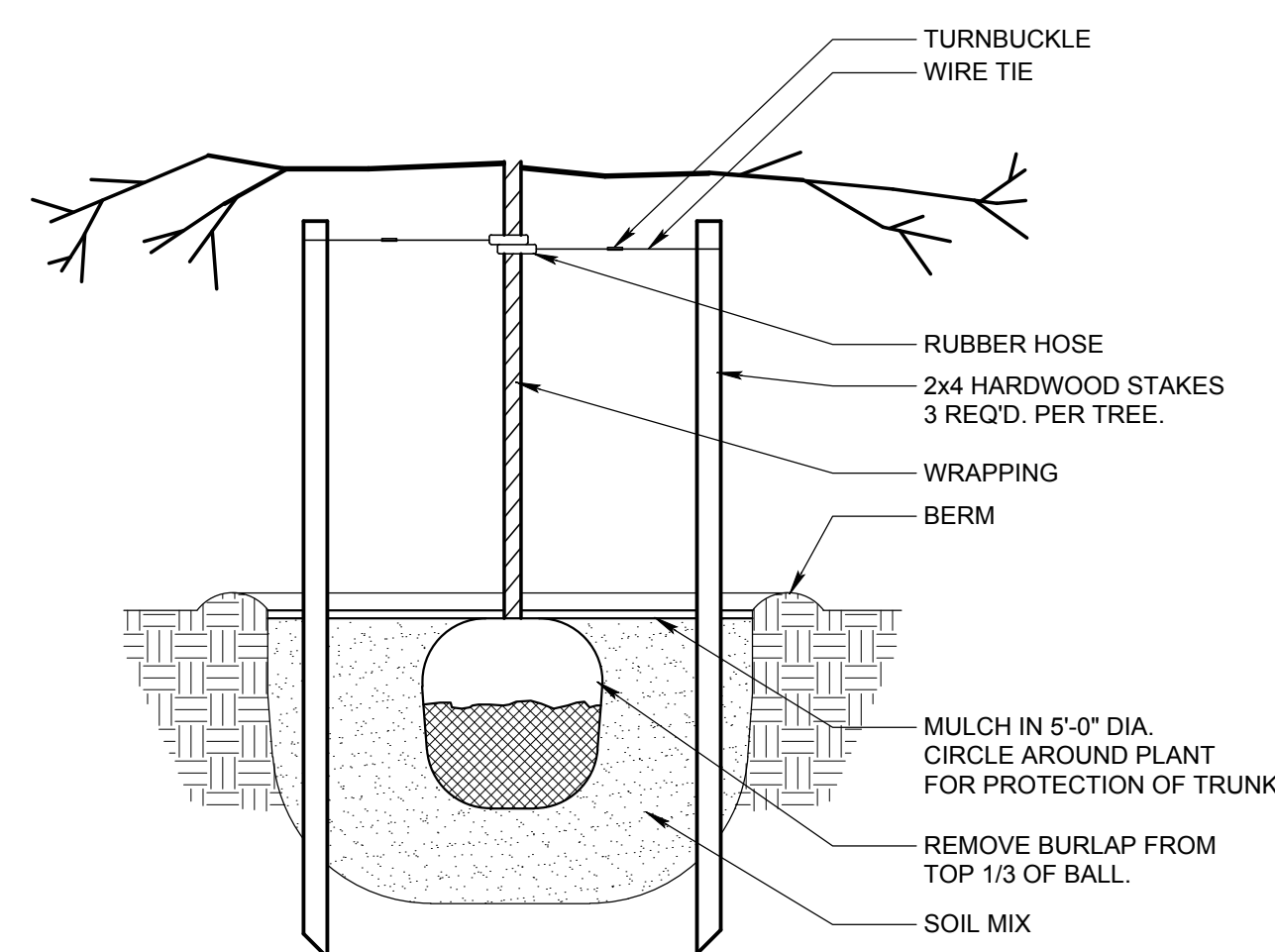


PLANT SPECIES AT SPECIFIED OFFSETS (IN) AT PERIMETER. MAINTAIN SPACING AS CLOSE AS POSSIBLE IN SUCCESSIVE INTERIOR ROWS. MINIMUM OVERLAPPING IS ACCEPTABLE TO ACHIEVE FULL BODIED, SYMMETRICAL LAYOUT.

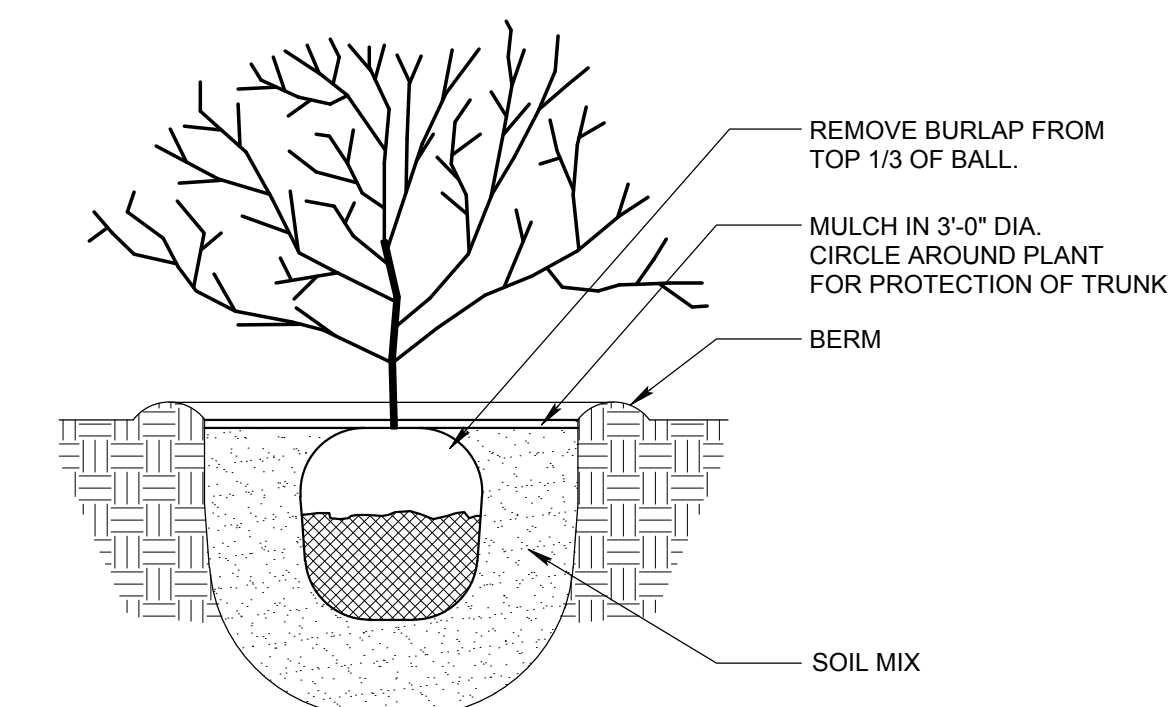
FINAL PLANT QUANTITY TO BE DETERMINED BY CONTRACTOR. DRAWING IS FOR LAYOUT PURPOSES ONLY.

SCULPTED PLANTER LAYOUT DETAIL

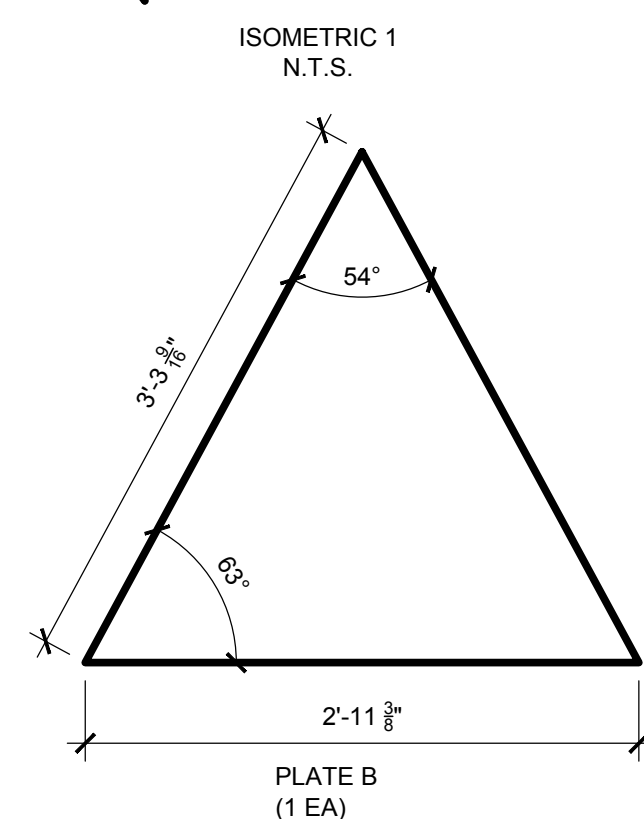
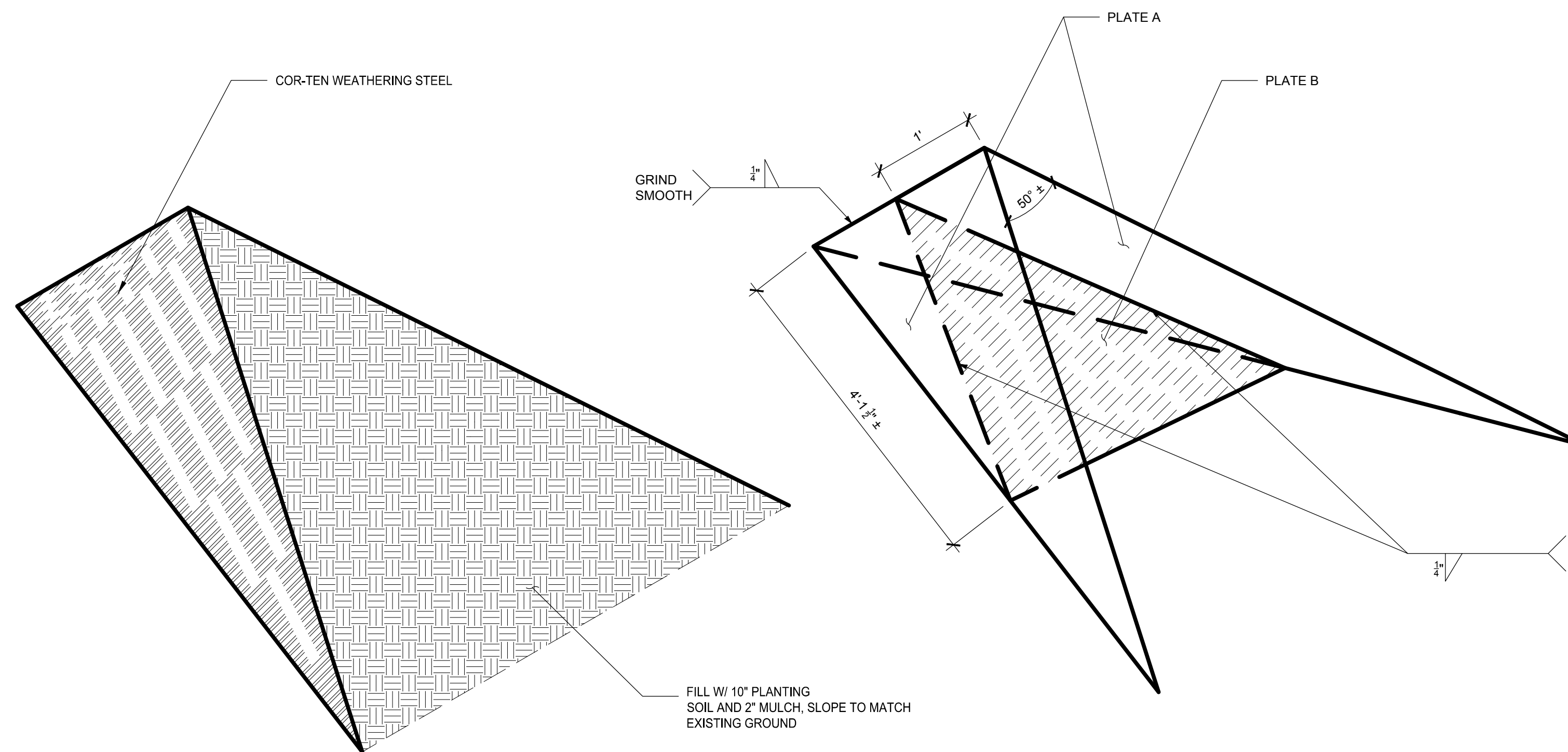
DETAIL N.T.S.



TREE PLANTING

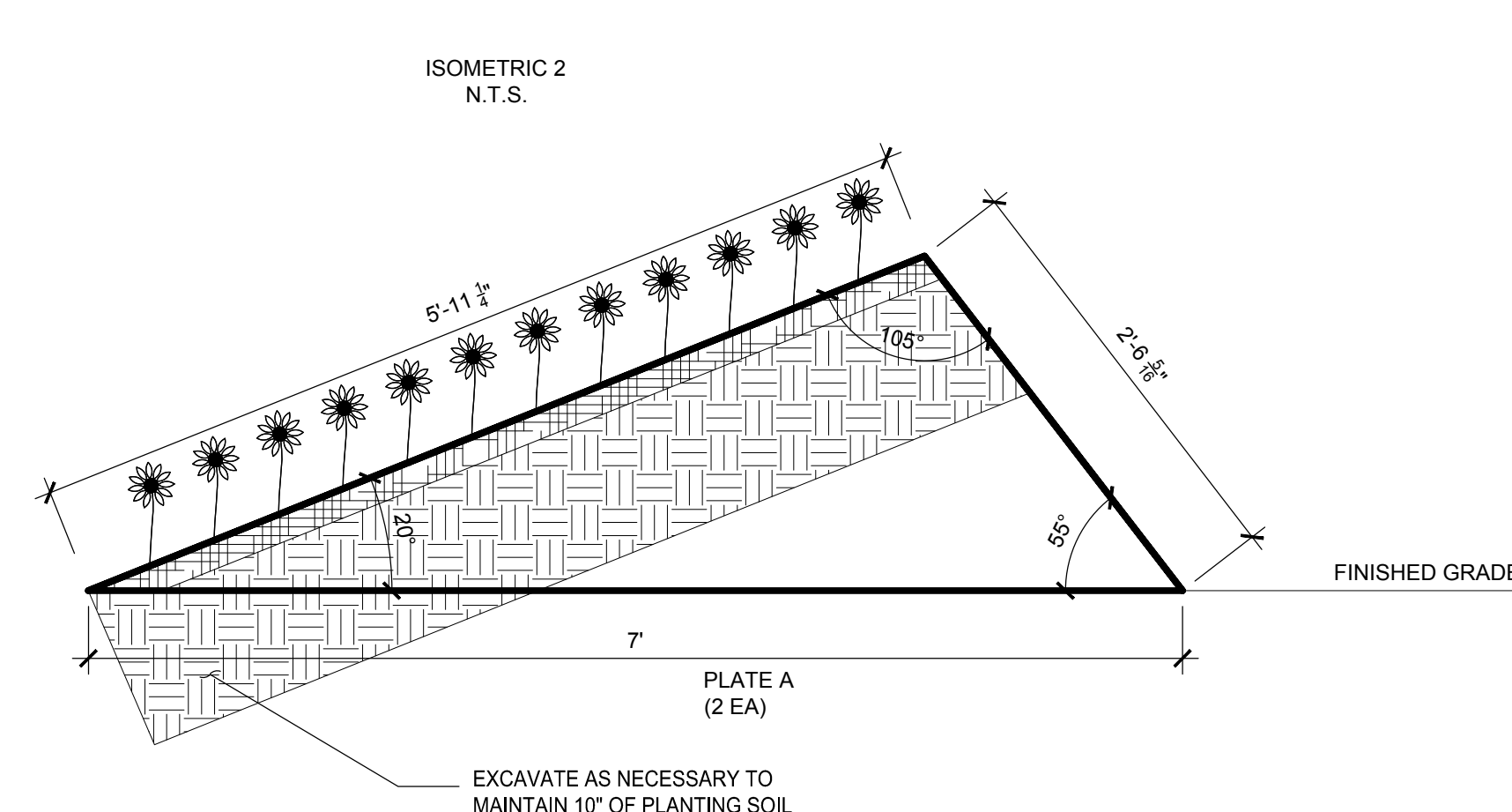


SINGLE SHRUB PLANTING



SCULPTED PLANTER PLAN

1
L-200
N.T.S.



NOTES:

1. SURFACES TO BE CONSTRUCTED FROM COR-TEN WEATHERING STEEL, WITH 1/2" t THICKNESS.
2. JOIN PLATES WITH FILLET WELDS. CONTINUOUS FOR LENGTH OF JOINT.
3. GRIND ALL EXTERIOR SEAMS FLUSH TO FINISH.

Client:
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Seal:

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Sheet Title:
**LANDSCAPE
DETAILS**

Project Number: **15566**

Sheet Number: **L-800**

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J:\PROJECTS\15566 BIRMINGHAM FIRE STATION\CAD\05 CIVIL & SURVEY\L-800 LANDSCAPE DETAILS.DWG PLOT DATE: 11/02/2017 5:02:47 PM C.JOHNSON



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Corporate Headquarters
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Novi, Michigan 48374
Ph: (248)349-4500 • Fax: (248)349-1429

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Date	Issued For
12/17/15	OWNER REVIEW
01/20/16	OWNER REVIEW
01/22/16	SPA REVIEW
03/11/16	OWNER REVIEW
04/19/16	OWNER REVIEW
04/22/16	OWNER REVIEW
07/19/16	95% REVIEW
07/29/16	FINAL REVIEW
12/05/16	BIDS

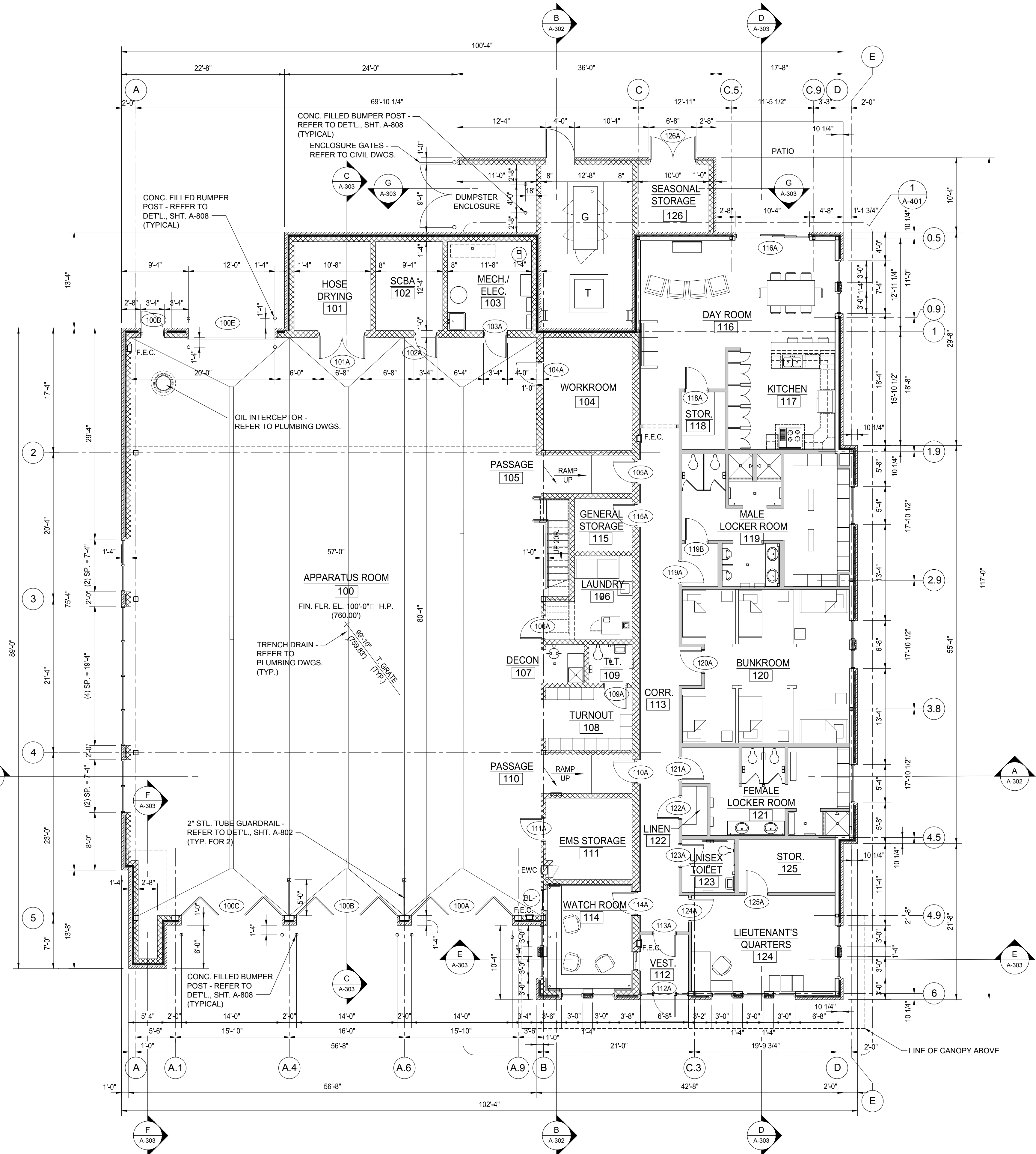
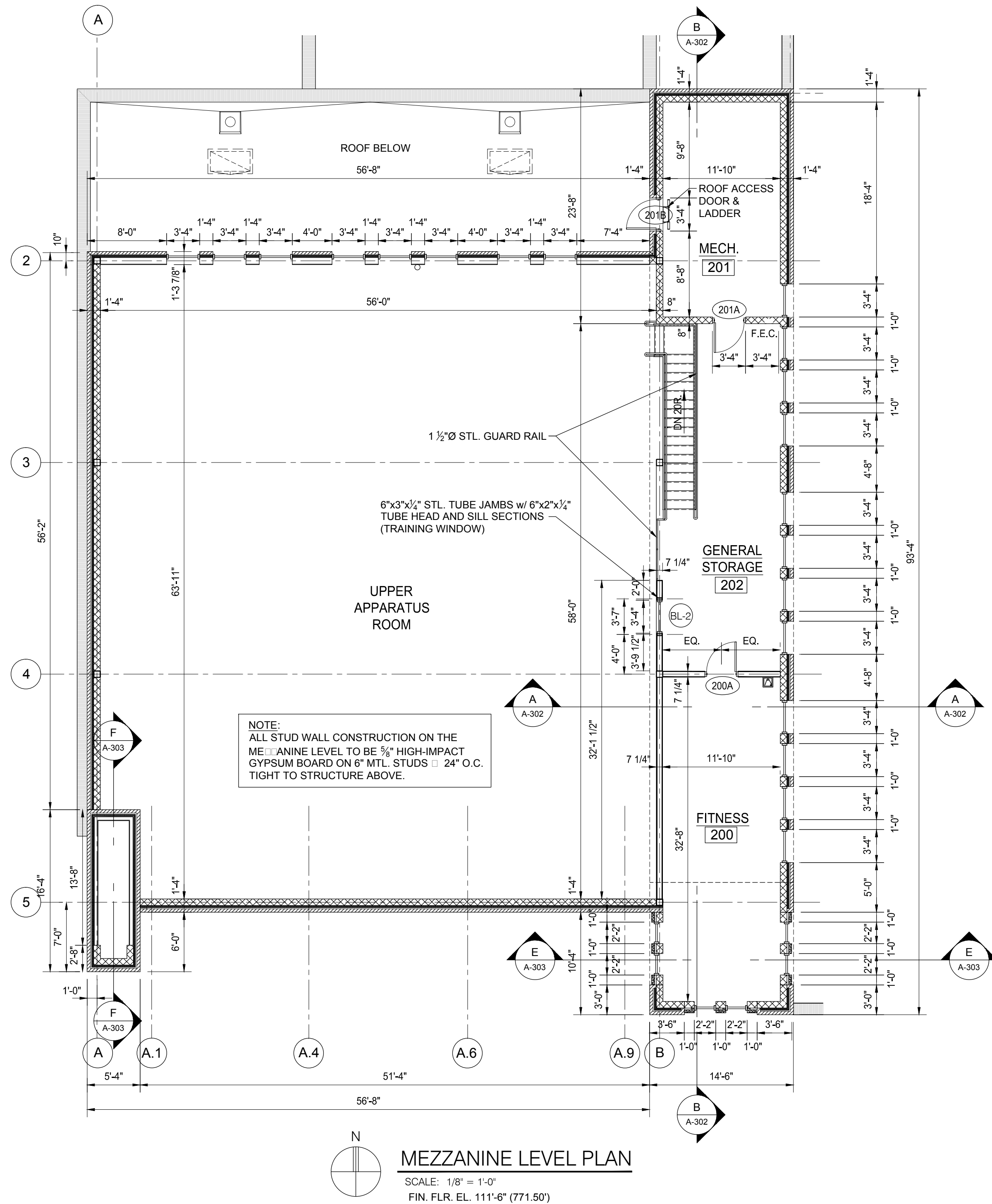
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Approved: S. PETERSON

Sheet Title:
FLOOR PLAN

Project Number: 15566

Sheet Number: A-210

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NOTE:
EXTERIOR MASONRY DIMENSIONS ARE FACE OF BRICK - REFER TO DETAILS FOR PRECAST STONE BASE AND ACCENT BANDING PROJECTIONS AND DIMENSIONS.



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Corporate Headquarters
45650 Grand River Avenue
Novi, Michigan 48374
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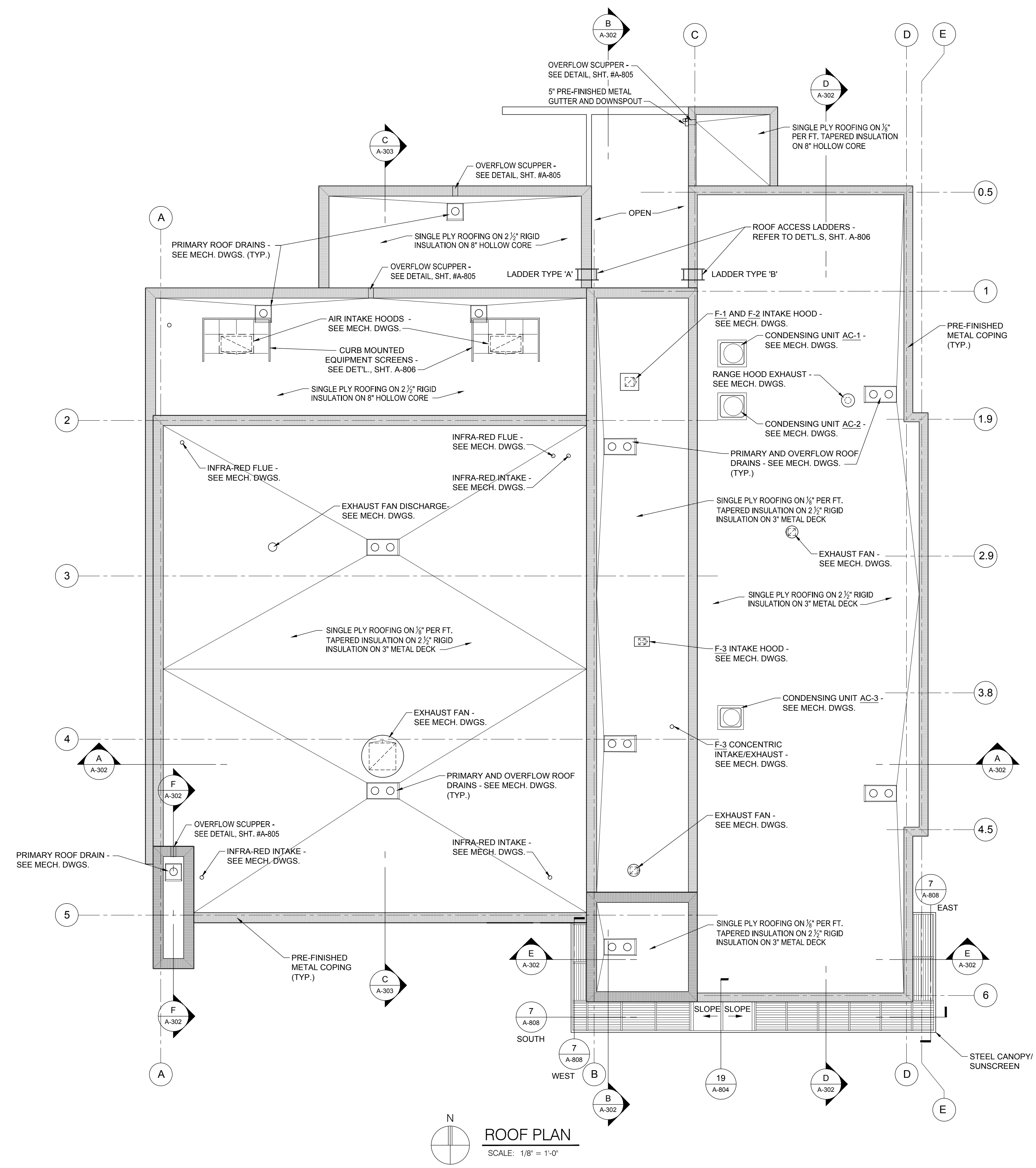
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Sheet Title:
ROOF PLAN

Project Number: 15566

Sheet Number: **A-220**

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



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Ph: (248)349-4500 • Fax: (248)349-1429

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Scale:

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01/22/16	SPA REVIEW
03/11/16	OWNER REVIEW
04/22/16	SPA REVIEW
05/11/16	ESTIMATE
07/19/16	95% REVIEW
07/29/16	FINAL REVIEW
12/05/16	BIDS

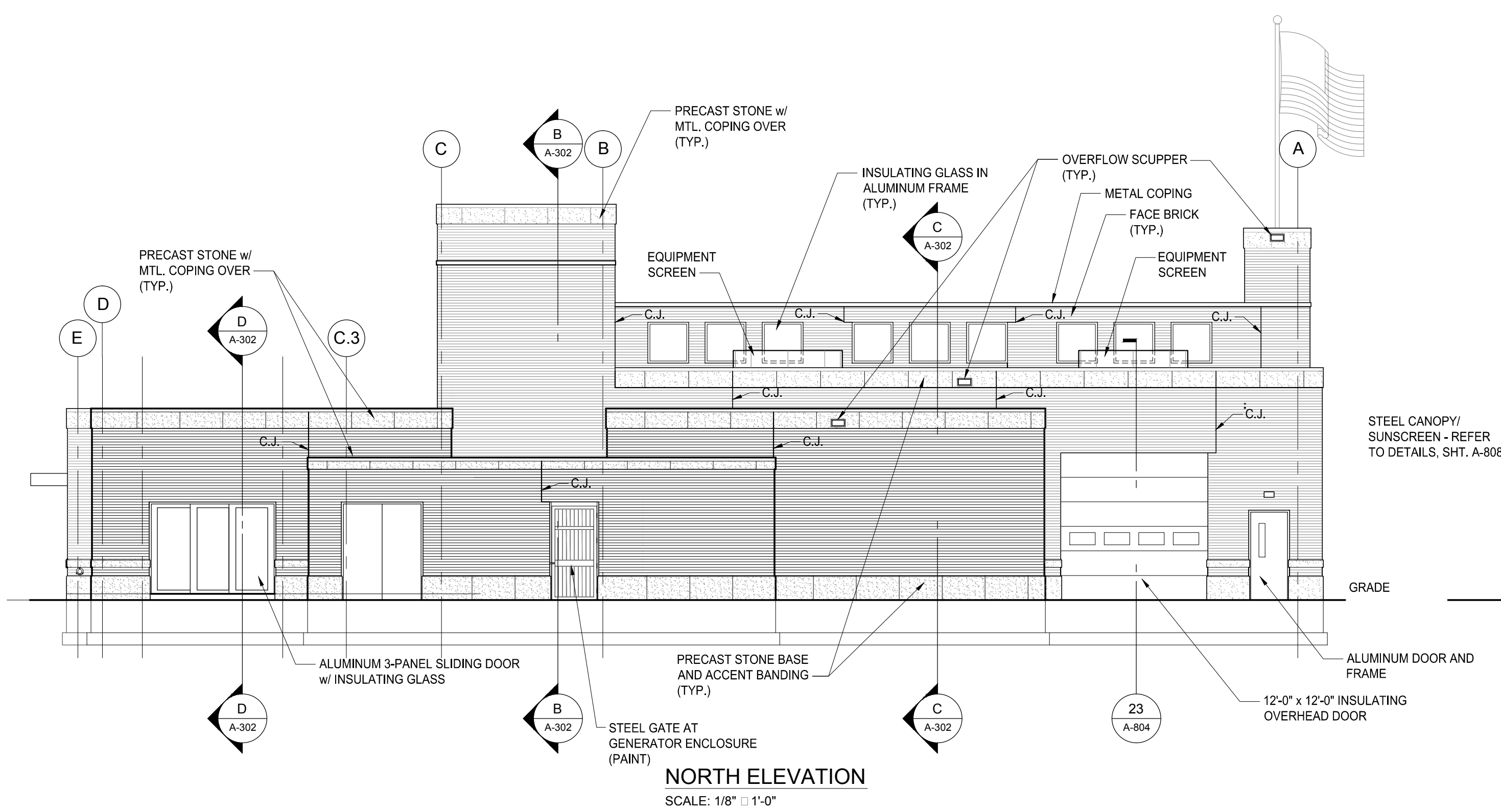
Drawn: R. MIU
Checked: S. PETERSON
Approved: S. PETERSON

Sheet Title:
EXTERIOR
ELEVATIONS

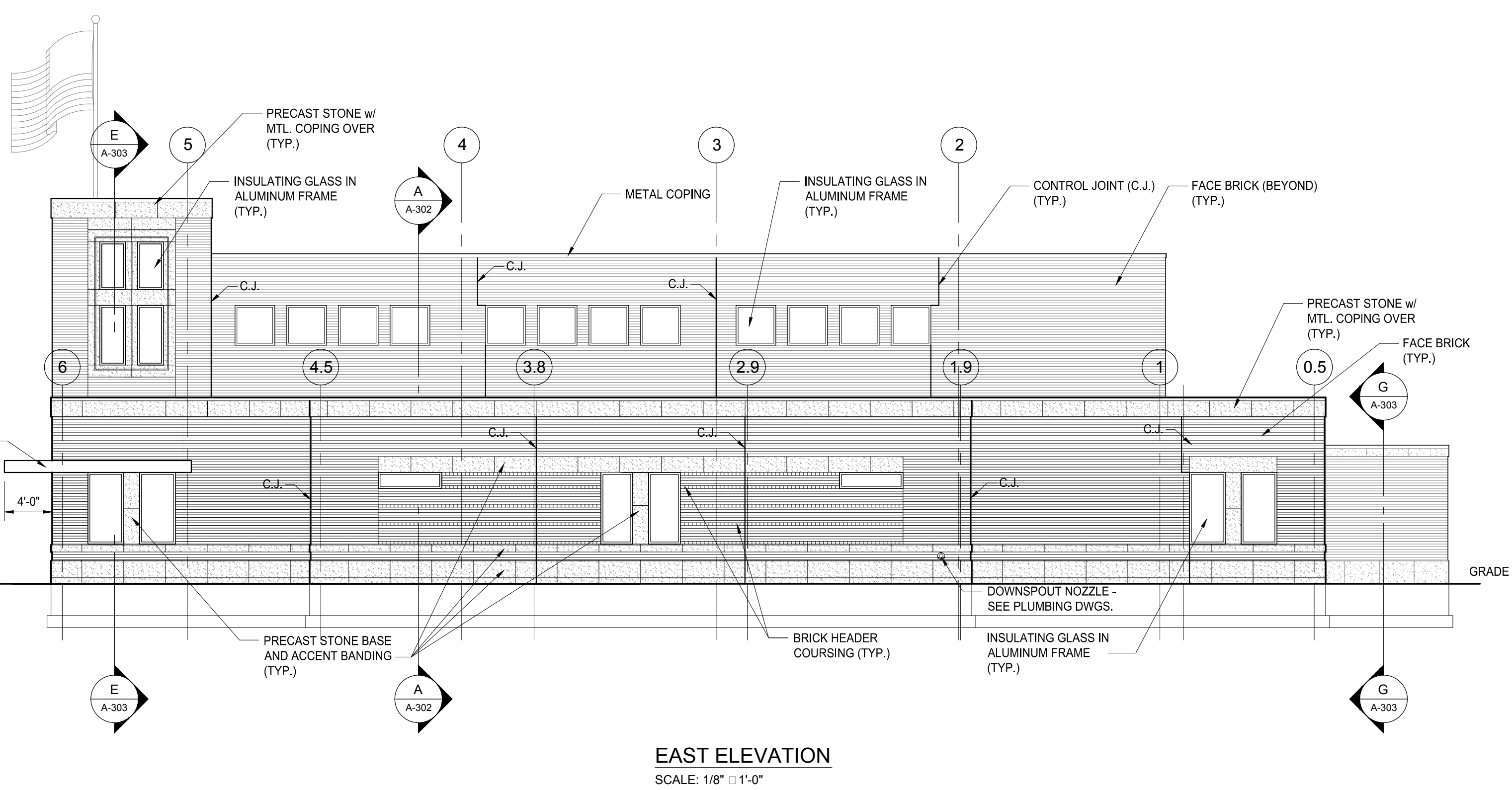
Project Number: 15566

Sheet Number: A-301

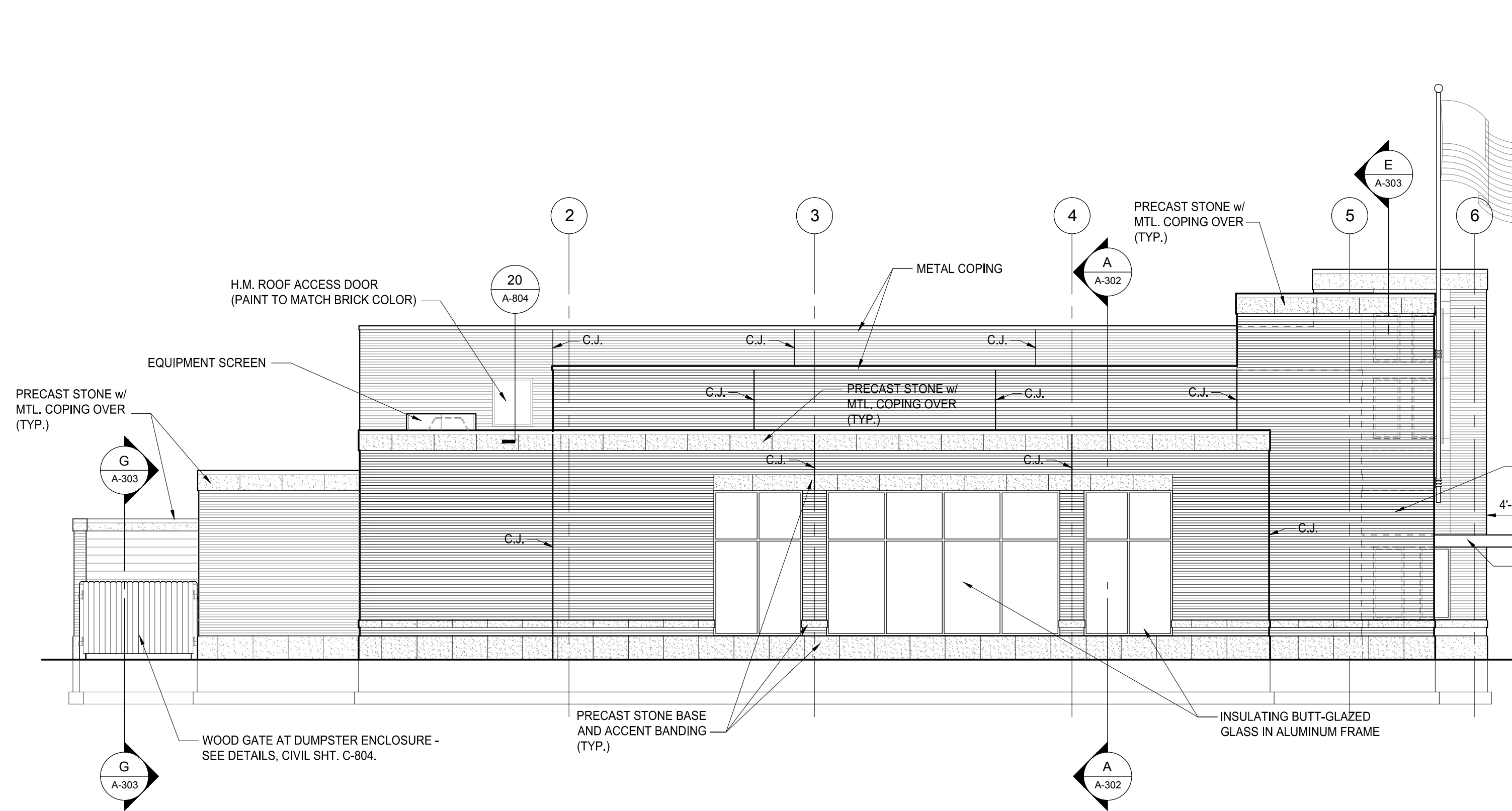
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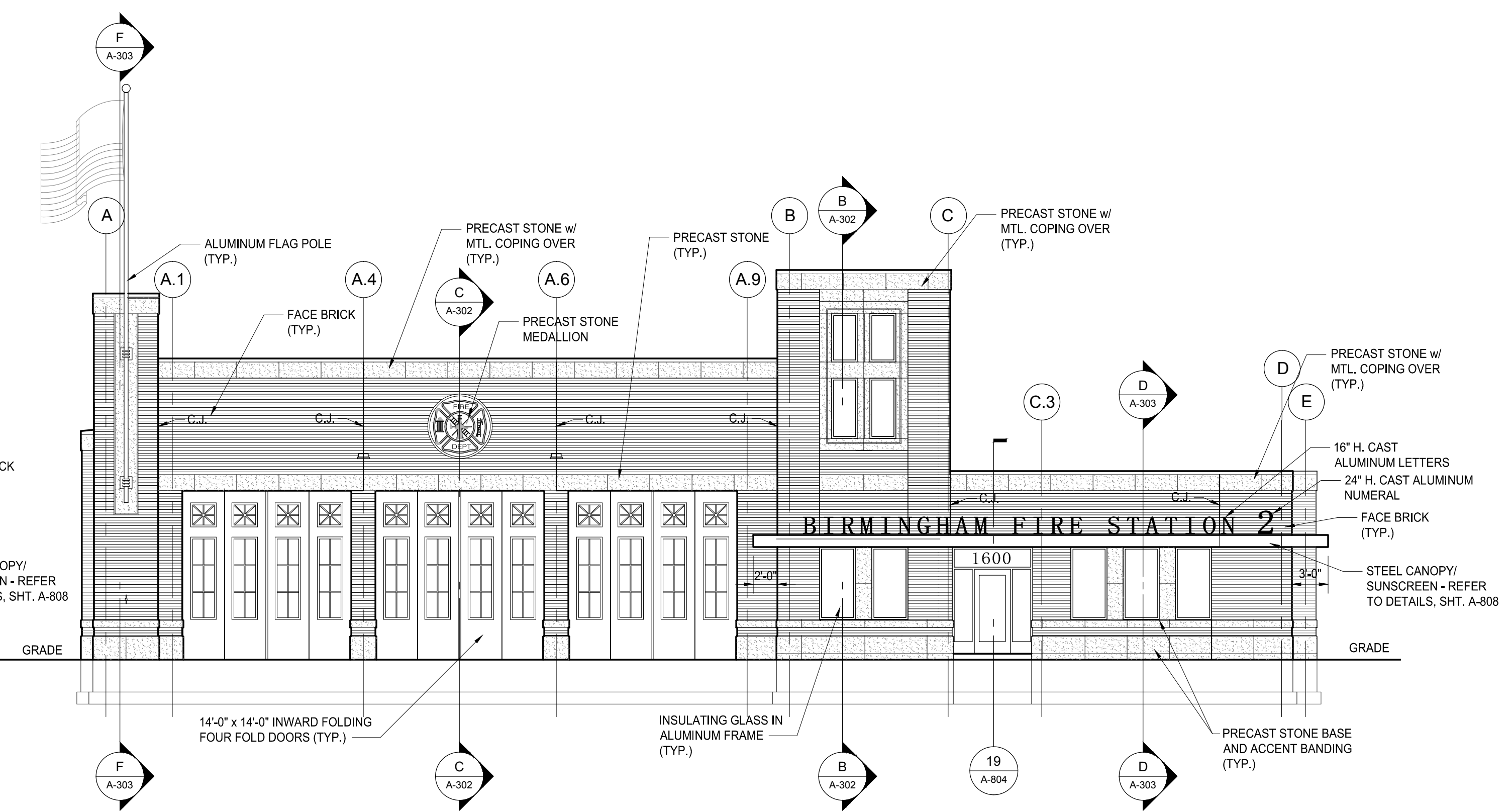
NORTH ELEVATION
SCALE: 1/8" = 1'-0"



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



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



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

NOTE:
ALL EXTERIOR ALUMINUM DOORS, WINDOWS
AND FRAMING TO BE POWDER COATED RED.
FINAL COLOR TO BE APPROVED BY ARCHITECT.



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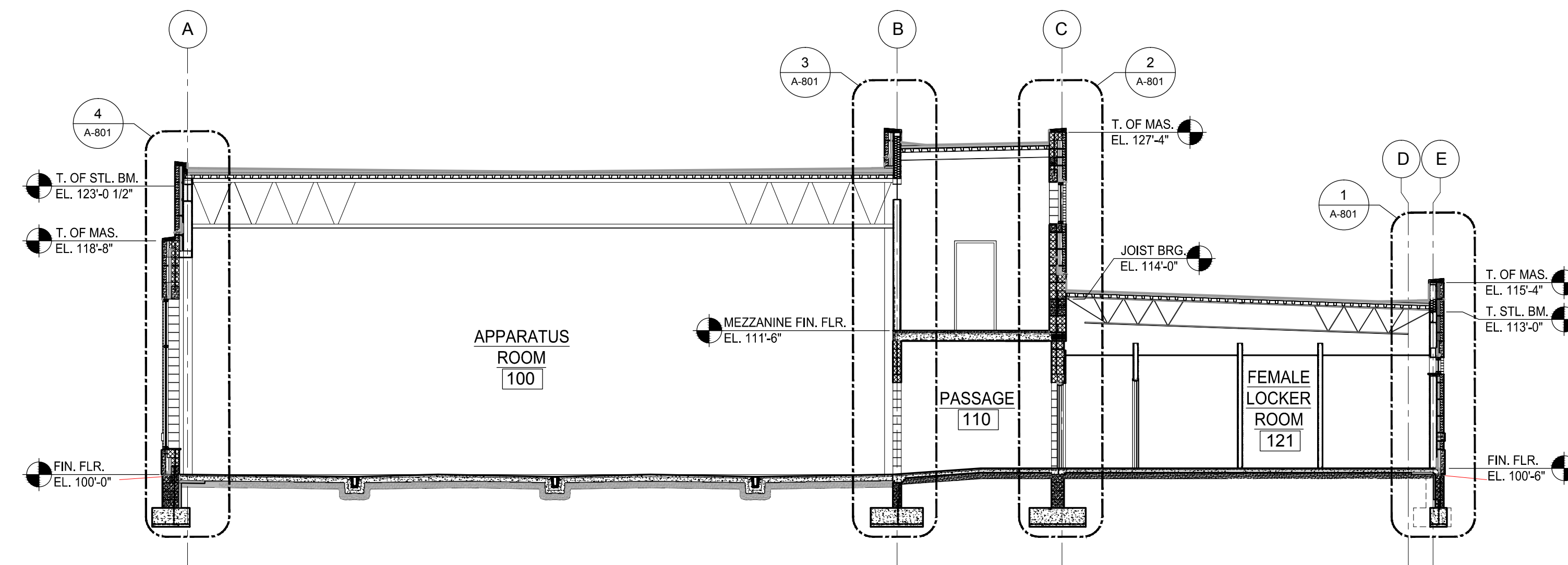
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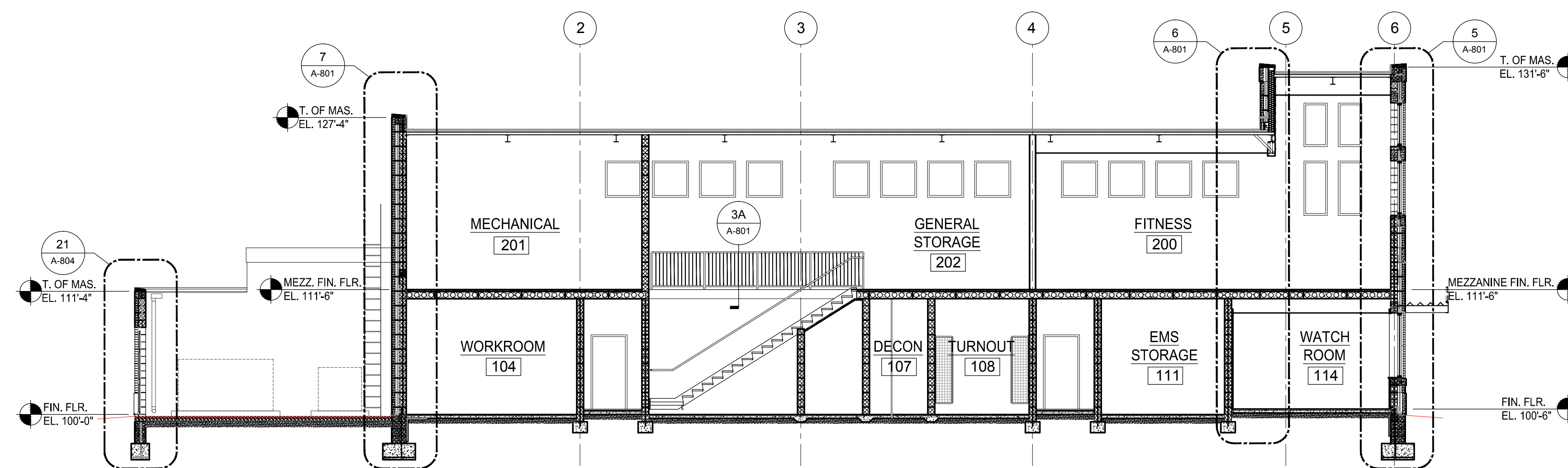
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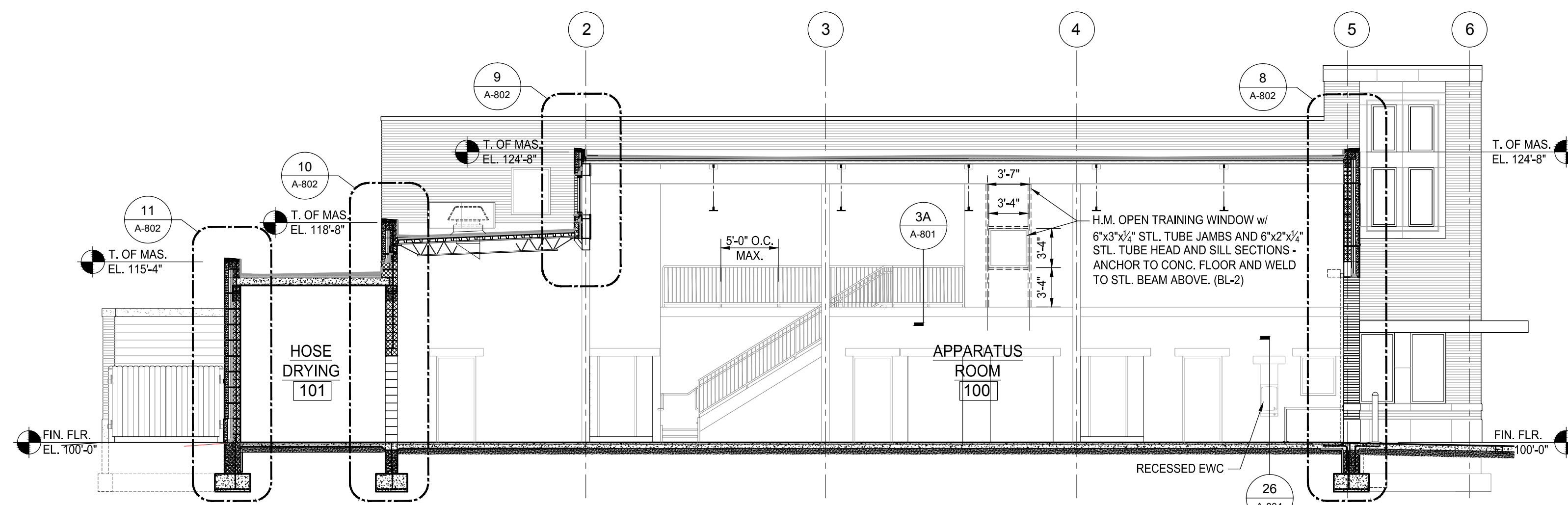
Key Plan: No Scale



A BUILDING SECTION
A-210 SCALE: 1/8" = 1'-0"



B BUILDING SECTION
A-210 SCALE: 1/8" = 1'-0"



C BUILDING SECTION
A-210 SCALE: 1/8" = 1'-0"

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07/29/16	FINAL REVIEW
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Approved: S. PETERSON

Sheet Title:
**BUILDING
SECTIONS**

Project Number: 15566

Sheet Number: **A-302**

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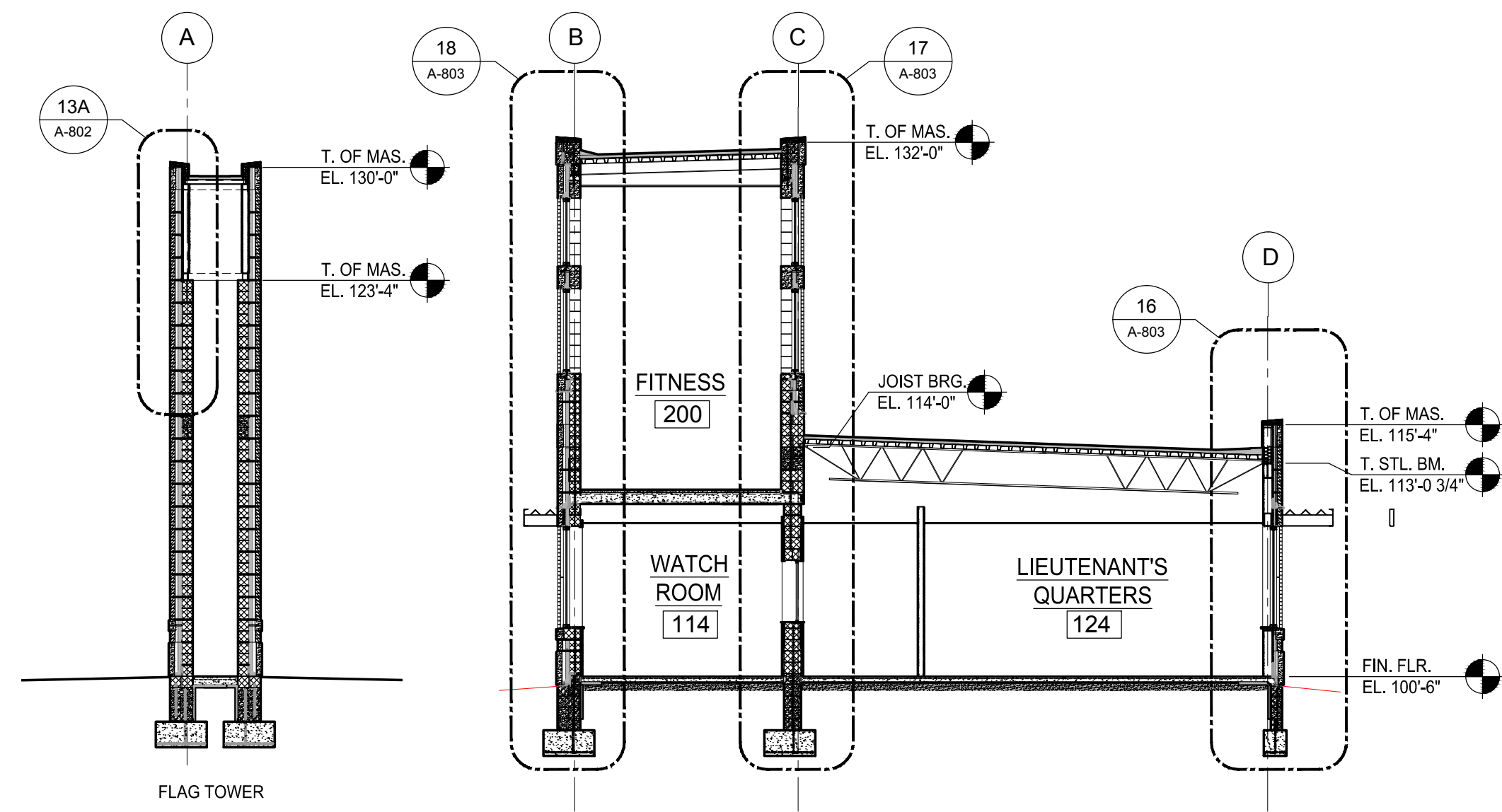
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Checked:	S. PETERSON
Approved:	S. PETERSON

Sheet Title:
**BUILDING
SECTIONS**

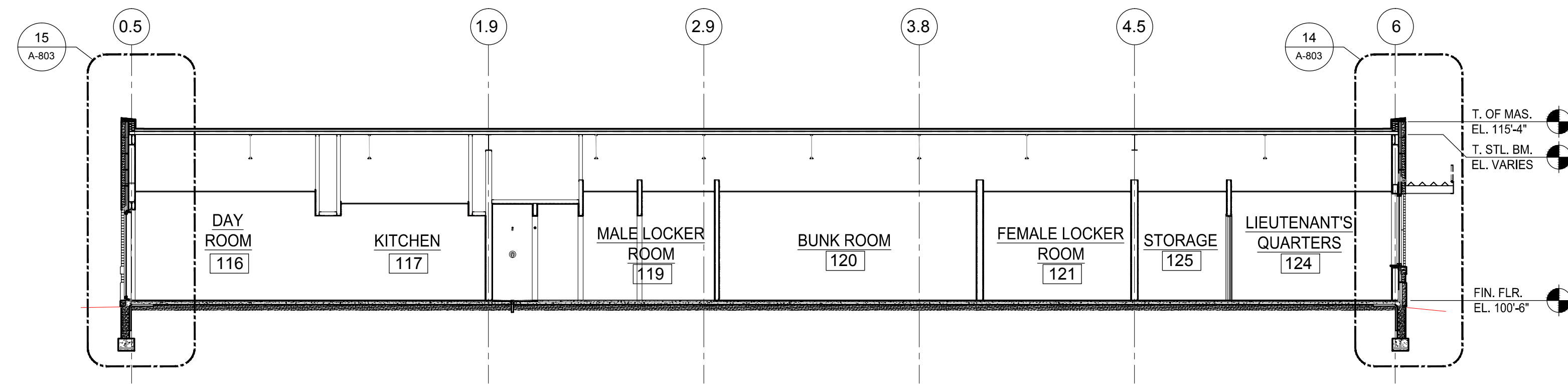
Project Number: 15566

Sheet Number: **A-303**

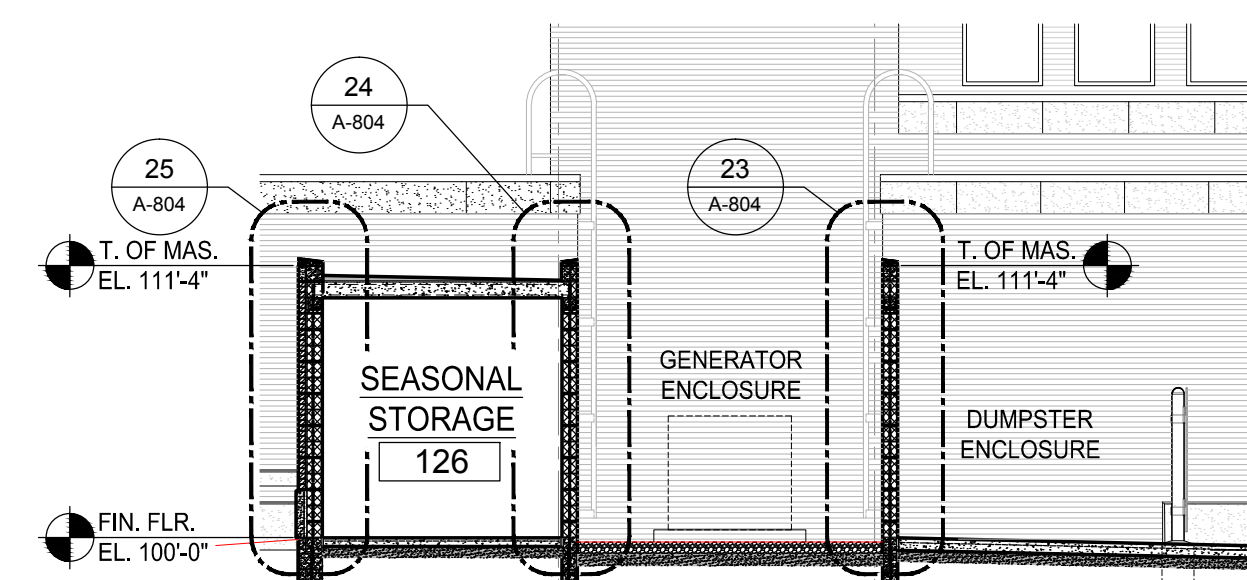
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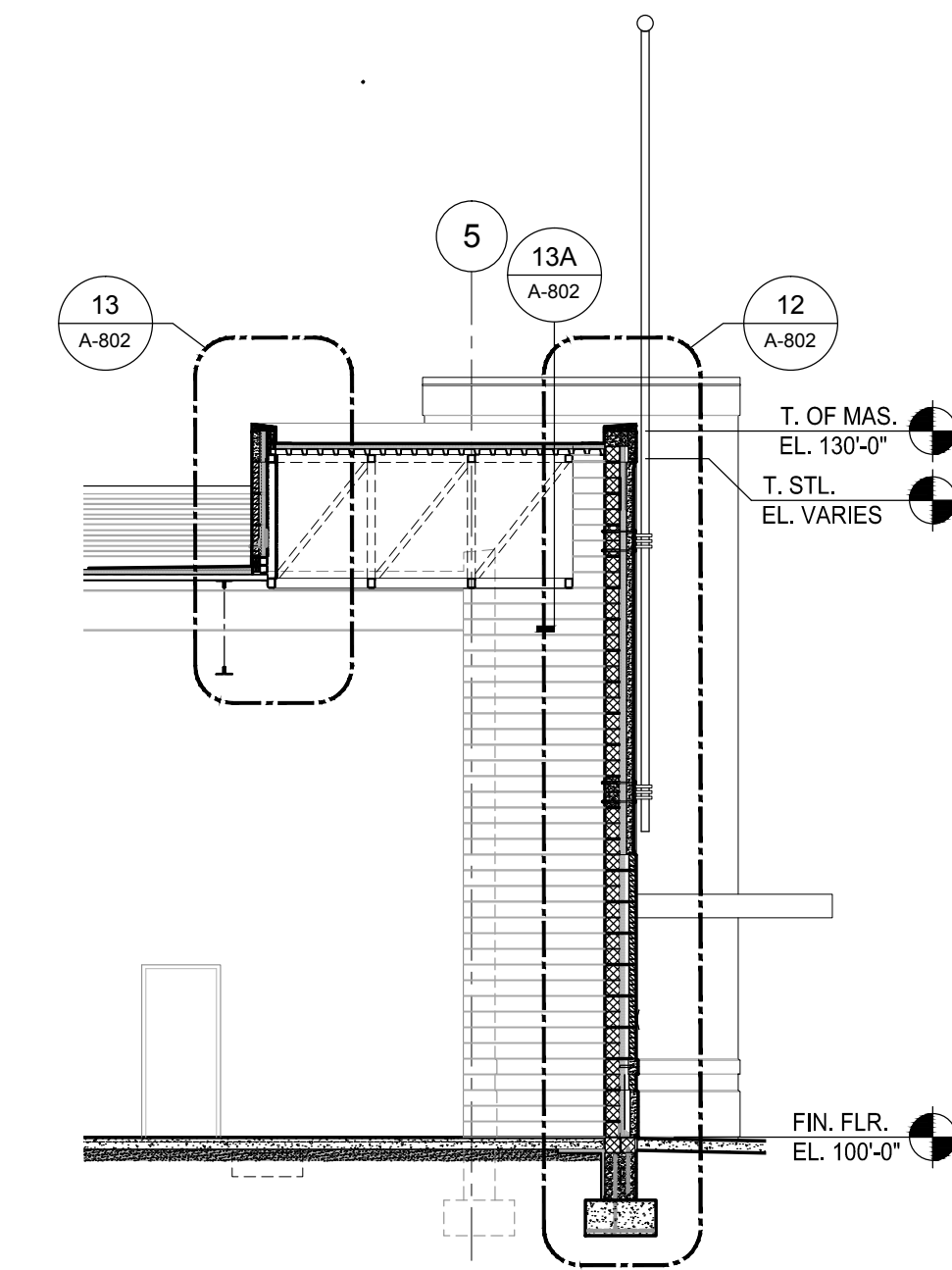
E BUILDING SECTION
A-210 SCALE: 1/8" □ 1'-0"



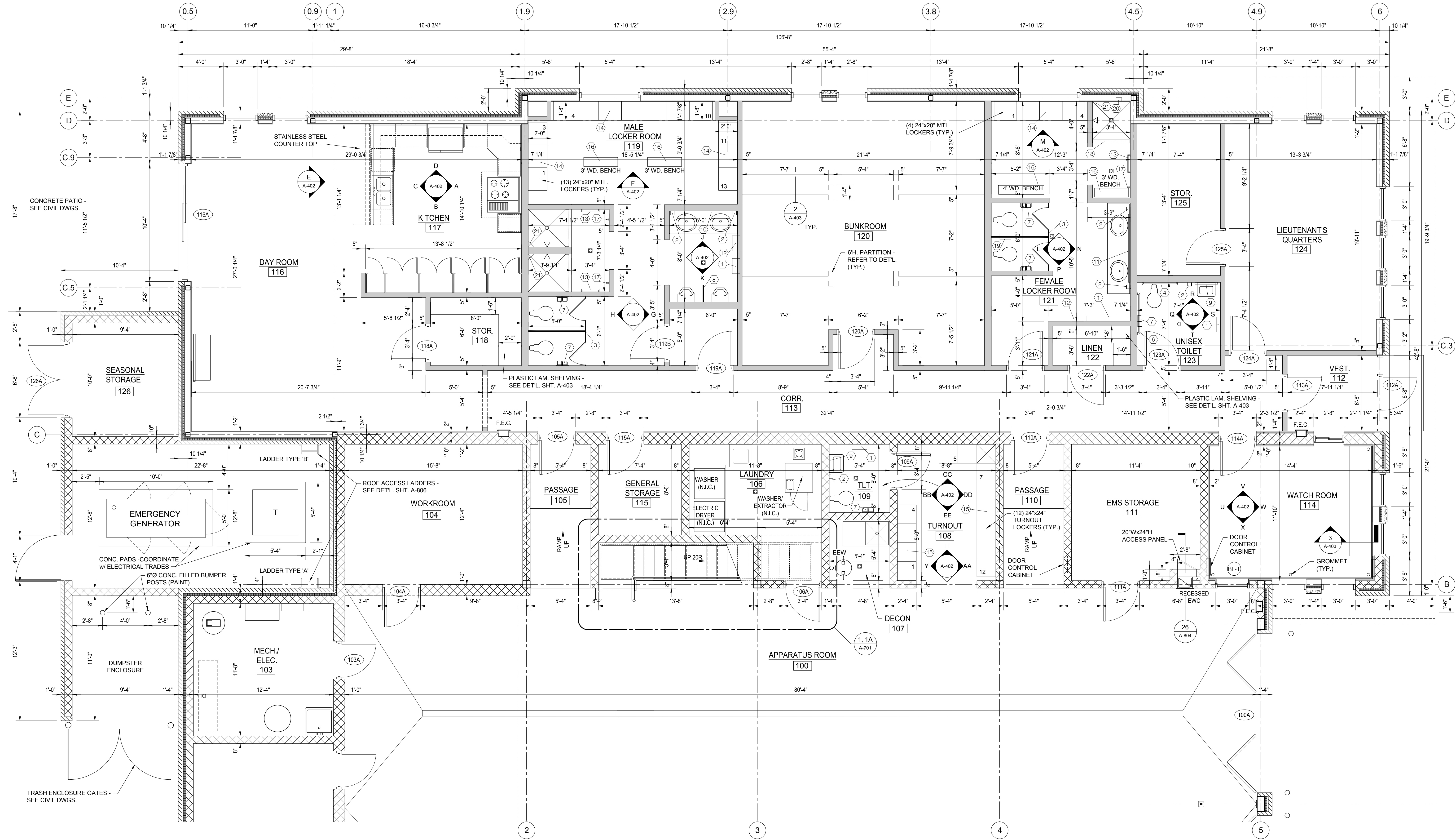
D BUILDING SECTION
A-210 SCALE: 1/8" □ 1'-0"



G BUILDING SECTION
A-210 SCALE: 1/8" □ 1'-0"



F BUILDING SECTION
A-210 SCALE: 1/8" □ 1'-0"



1 LARGE SCALE FLOOR PLAN
SCALE: 1/4" = 1'-0"

- STUD WALL CONSTRUCTION NOTES:**
- ALL NOMINAL 5" STUD WALLS - 5/8" GYPSUM BD. BOTH SIDES OF 3 3/8" MTL. STUDS @ 16" O.C. TO MIN. 6" ABOVE FINISH CEILING. BRACED TO STRUCTURE ABOVE. PROVIDE 3 1/2" ACOUSTICAL BATT INSULATION PER REFLECTED CEILING PLAN, SHT. A-610.
 - ALL NOMINAL 7 1/2" STUD WALLS - 5/8" GYPSUM BD. BOTH SIDES OF 6" MTL. STUDS @ 24" O.C. TO MIN. 6" ABOVE FINISH CEILING. BRACED TO STRUCTURE ABOVE. PROVIDE 6" ACOUSTICAL BATT INSULATION PER REFLECTED CEILING PLAN, SHT. A-610.
 - ALL ROOM SIDE GYPSUM BOARD IN MALE LOCKER ROOM #119, FEMALE LOCKER ROOM #121 AND UNISEX TOILET #123 TO BE MOISTURE RESISTANT BOARD.
 - UNLESS NOTED OTHERWISE, ALL INTERIOR VERTICAL GYPSUM WALLBOARD IS 5/8" IMPACT RESISTANT.
 - UNLESS NOTED OTHERWISE, ALL CEILINGS AND SOFFITS ARE STANDARD 5/8" GYPSUM BOARD.

ACCESSORY LEGEND

1 SEMI-RECESSED COMBINATION PAPER TOWEL DISPENSER AND WASTE RECEPTACLE	12 RECESSED HAND DRYER
2 WALL MOUNTED SOAP DISPENSER	13 18" S.S. TOWEL BAR
3 FLOOR MOUNTED TOILET PARTITION	14 24" x 20" x 72" H METAL LOCKERS - REFER TO BASE DETL. SHT. A-403
4 36" S.S. GRAB BAR	15 20" x 20" x 72" H METAL TURNOUT LOCKERS
5 18" S.S. VERTICAL GRAB BAR	16 9" WIDE WOOD BENCH - LENGTH AS NOTED
6 42" S.S. GRAB BAR	17 ROBE HOOK
7 TOILET TISSUE DISPENSER - DOUBLE	18 SHOWER CURTAIN AND ROD
8 WALL MTD. URINAL SCREEN	19 SANITARY NAPKIN DISPOSAL
9 36" HIGH x 24" WIDE MIRROR w/ S. STL. FRAME	20 RECESSED SOAP DISH @ 12" A.F.F.
10 36" HIGH x 60" WIDE MIRROR w/ S. STL. FRAME	21 CORNER SHELF @ 48" A.F.F.
11 36" HIGH x 72" WIDE MIRROR w/ S. STL. FRAME	



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Corporate Headquarters
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Key Plan: No Scale

Client:
CITY OF BIRMINGHAM

Project:
**BIRMINGHAM
FIRE STATION No. 2**

1600 WEST MAPLE
BIRMINGHAM, MI 48009

Seal:

Date	Issued For
07/19/16	95 - REVIEW
07/29/16	FINAL REVIEW
12/05/16	BIDS

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Checked: S. PETERSON
Approved: S. PETERSON

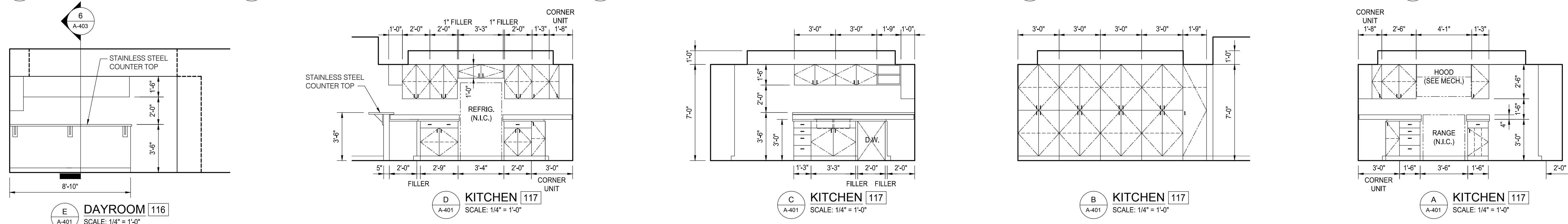
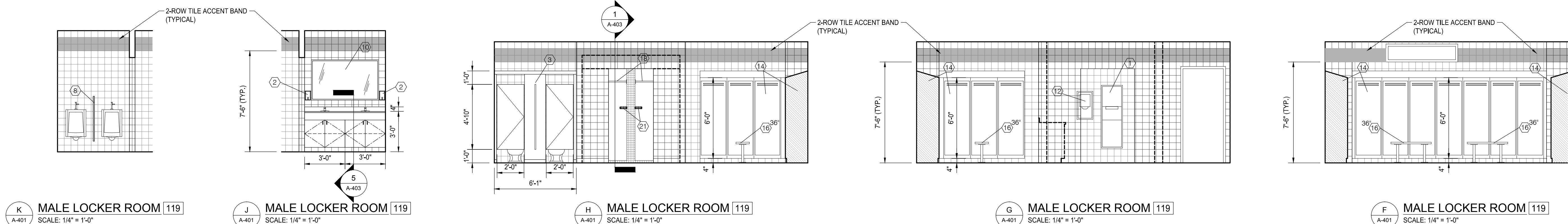
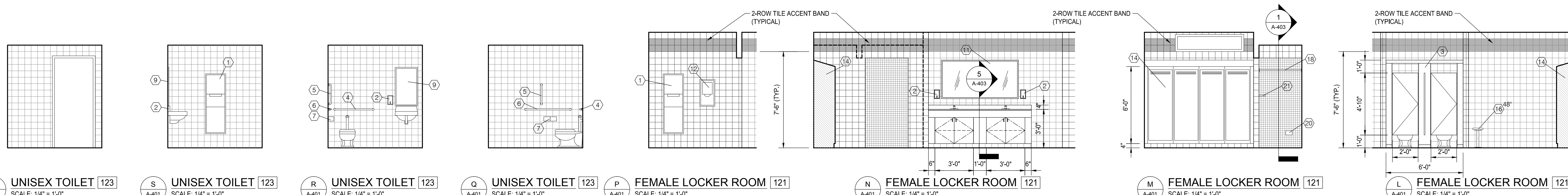
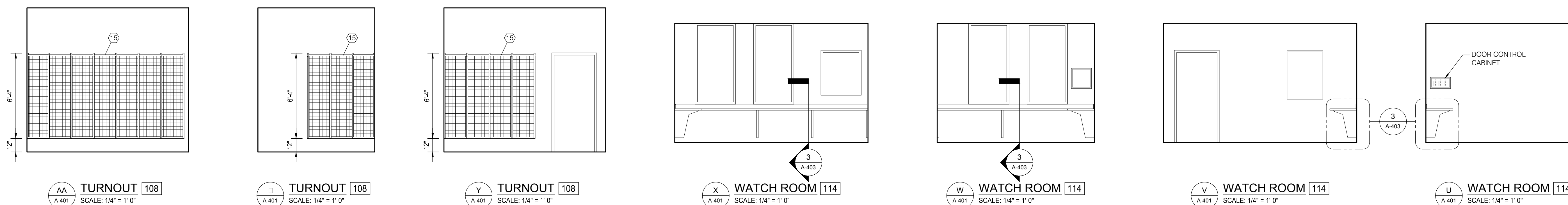
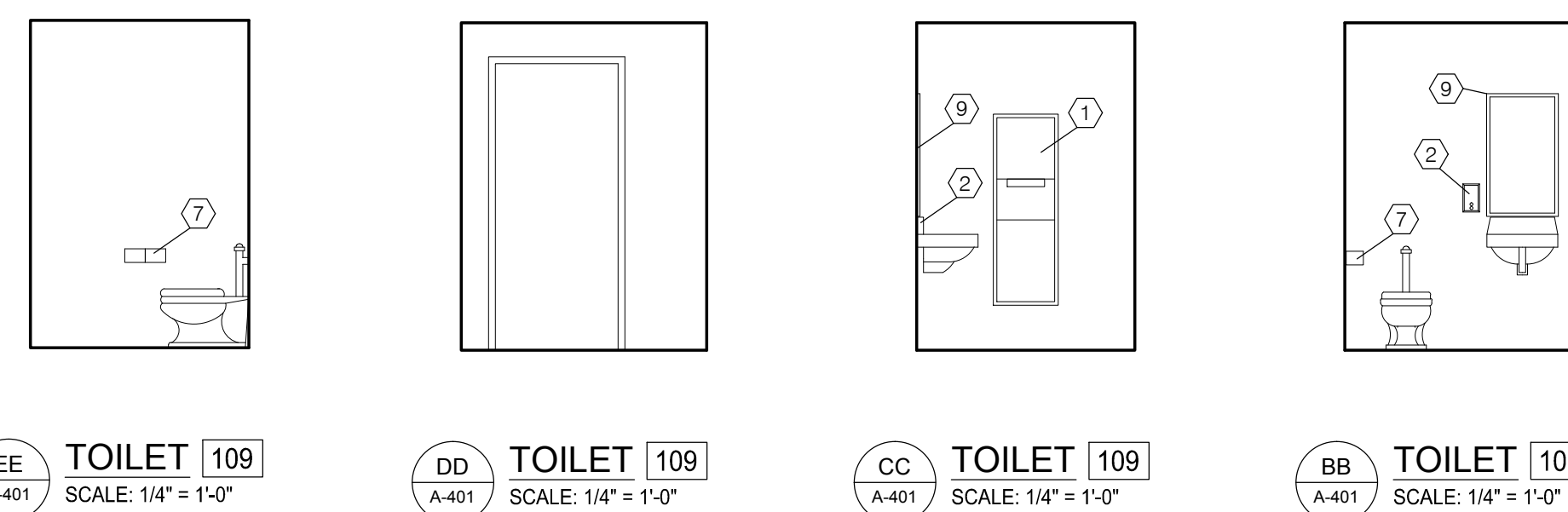
Sheet Title:
**INTERIOR
ELEVATIONS**

Project Number: 15566

Sheet Number: **A-402**

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ACCESSORY LEGEND	
1 SEMI-RECESSED COMBINATION PAPER TOWEL DISPENSER AND WASTE RECEPTACLE	12 RECESSED HAND DRYER
2 WALL MOUNTED SOAP DISPENSER	13 18" S.S. TOWEL BAR
3 FLOOR MOUNTED TOILET PARTITION	14 24" x 20" x 72"H METAL LOCKERS - REFER TO BASE DETL. SHT. A-403
4 36" S.S. GRAB BAR	15 20" x 20" x 72"H METAL TURNOUT LOCKERS
5 18" S.S. VERTICAL GRAB BAR	16 9" WIDE WOOD BENCH - LENGTH AS NOTED
6 42" S.S. GRAB BAR	17 ROBE HOOK
7 TOILET TISSUE DISPENSER - DOUBLE	18 SHOWER CURTAIN AND ROD
8 WALL MTD. URINAL SCREEN	19 SANITARY NAPKIN DISPOSAL
9 36" HIGH x 24" WIDE MIRROR w/ S. STL. FRAME	20 RECESSED SOAP DISH @ 12" A.F.F.
10 36" HIGH x 60" WIDE MIRROR w/ S. STL. FRAME	21 CORNER SHELF @ 48" A.F.F.
11 36" HIGH x 72" WIDE MIRROR w/ S. STL. FRAME	



NOTE:
ENTIRE KITCHEN IS STAINLESS STEEL CABINETS,
COUNTERTOPS, BACKSPASH AND FILLERS (TYP.)



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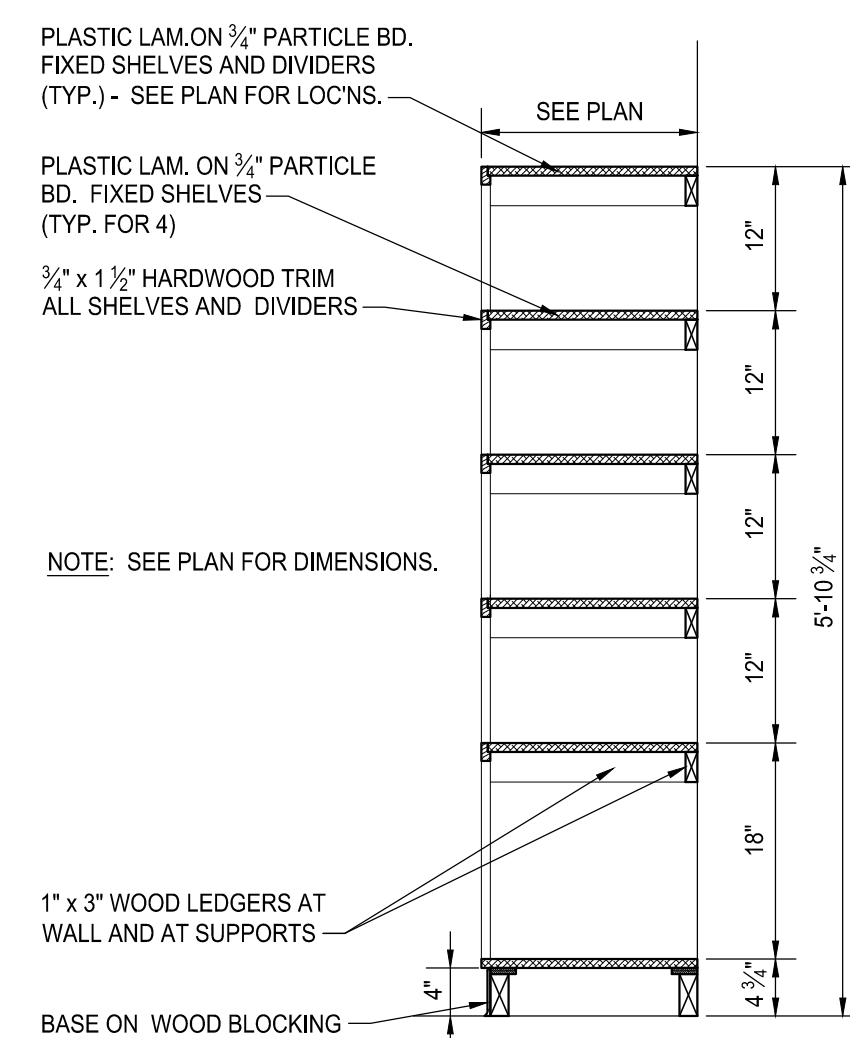
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Approved:	S. PETERSON

Sheet Title:
**INTERIOR AND
CASEWORK
DETAILS**

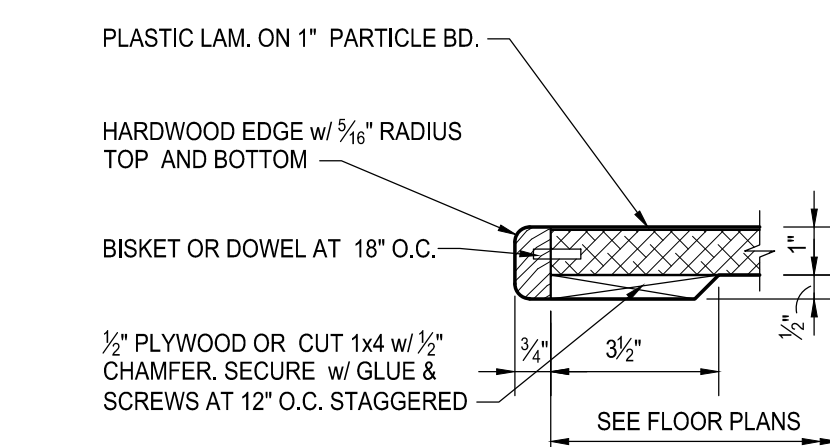
Project Number: 15566

Sheet Number: **A-403**

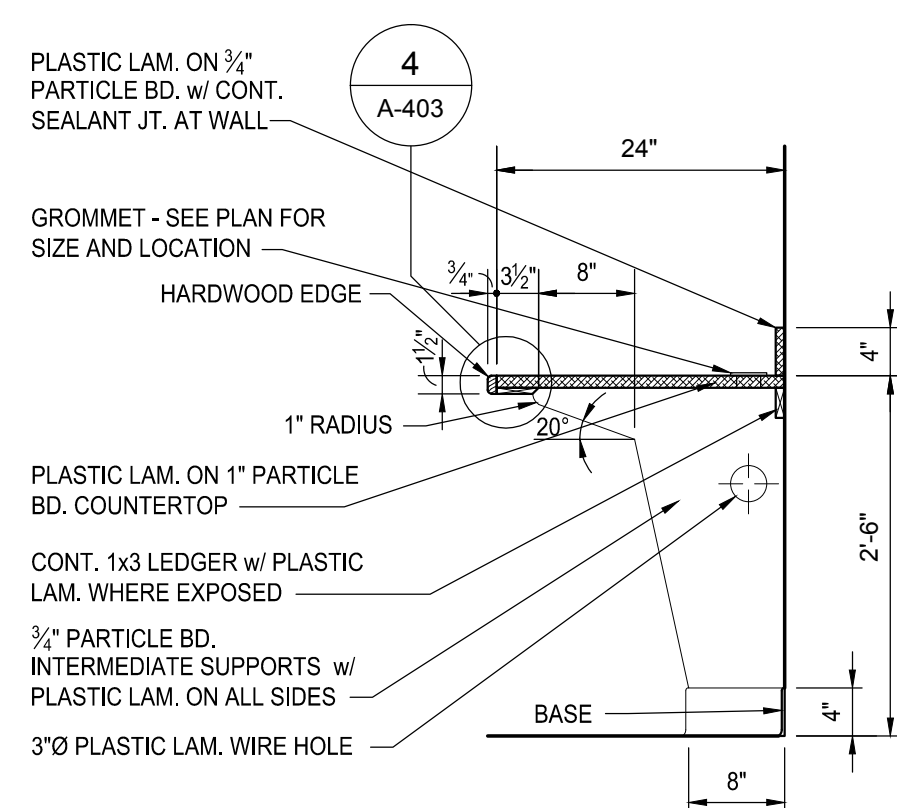
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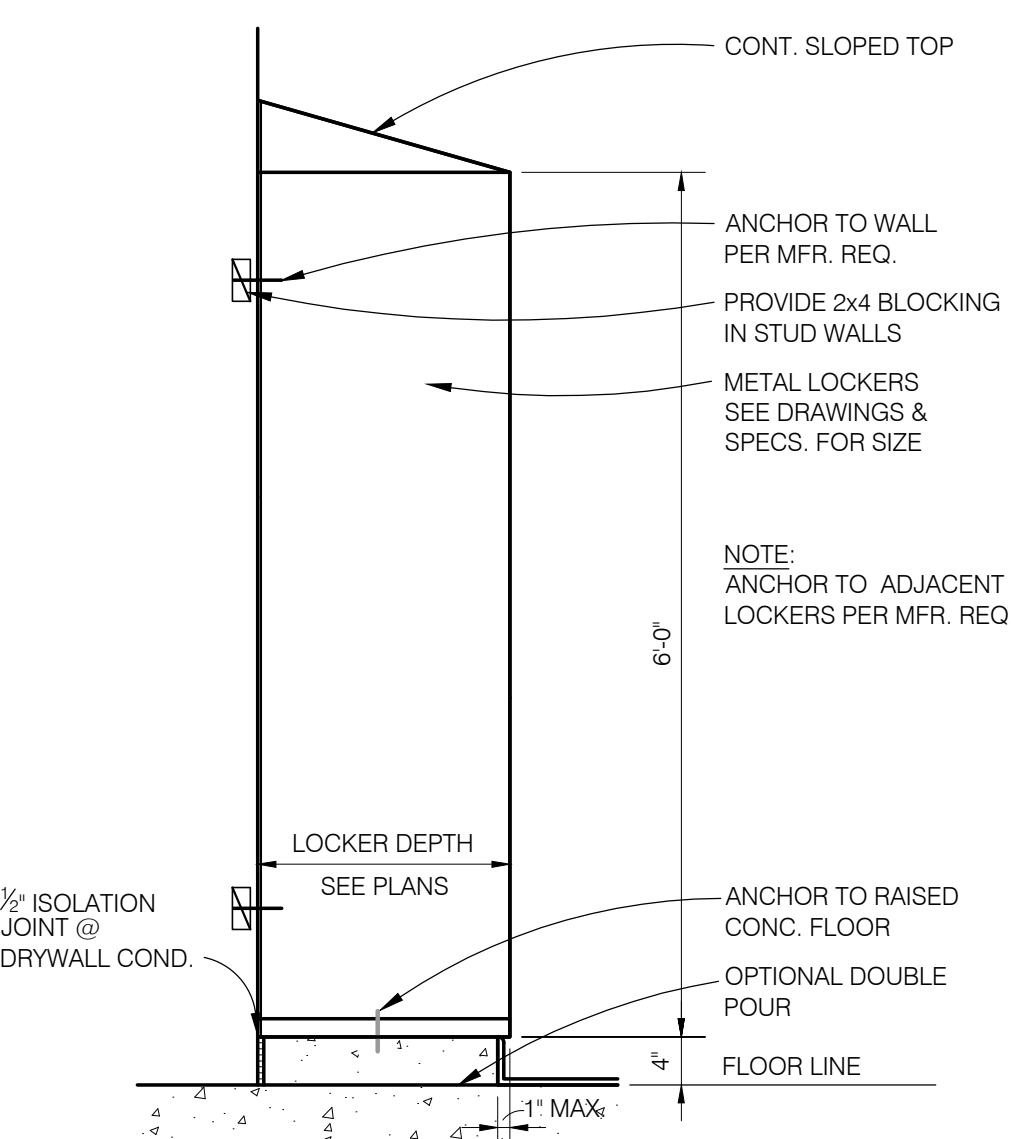
TYPICAL SECTION THRU FIXED SHELVING
SCALE: 3/4" = 1'-0"



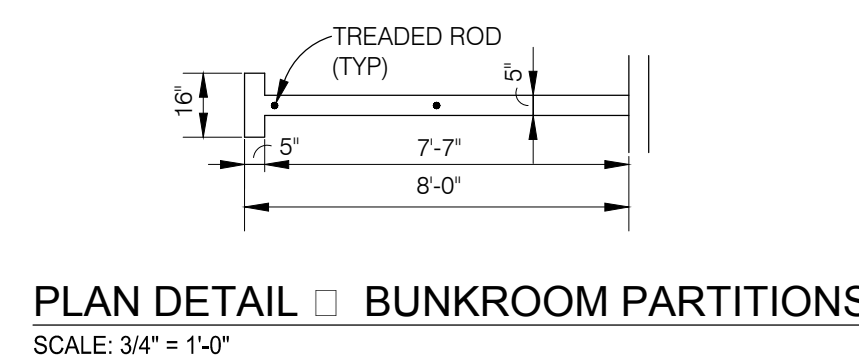
SECTION THRU WOOD EDGE
SCALE: 3" = 1'-0"



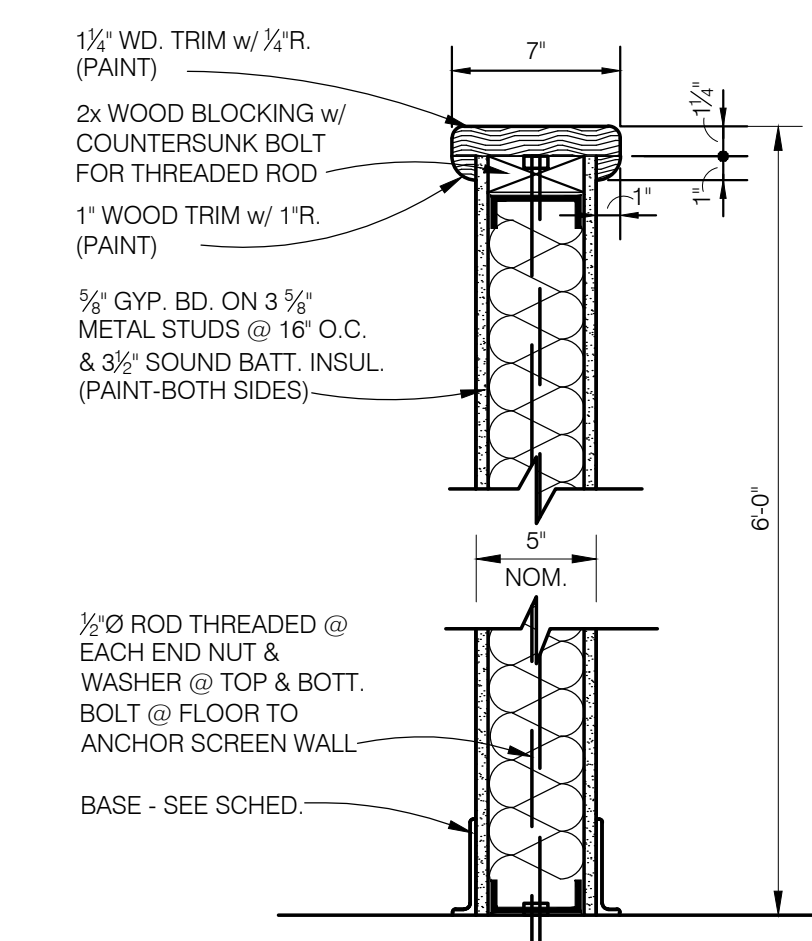
SECTION THRU WATCHROOM COUNTER
SCALE: 3/4" = 1'-0"



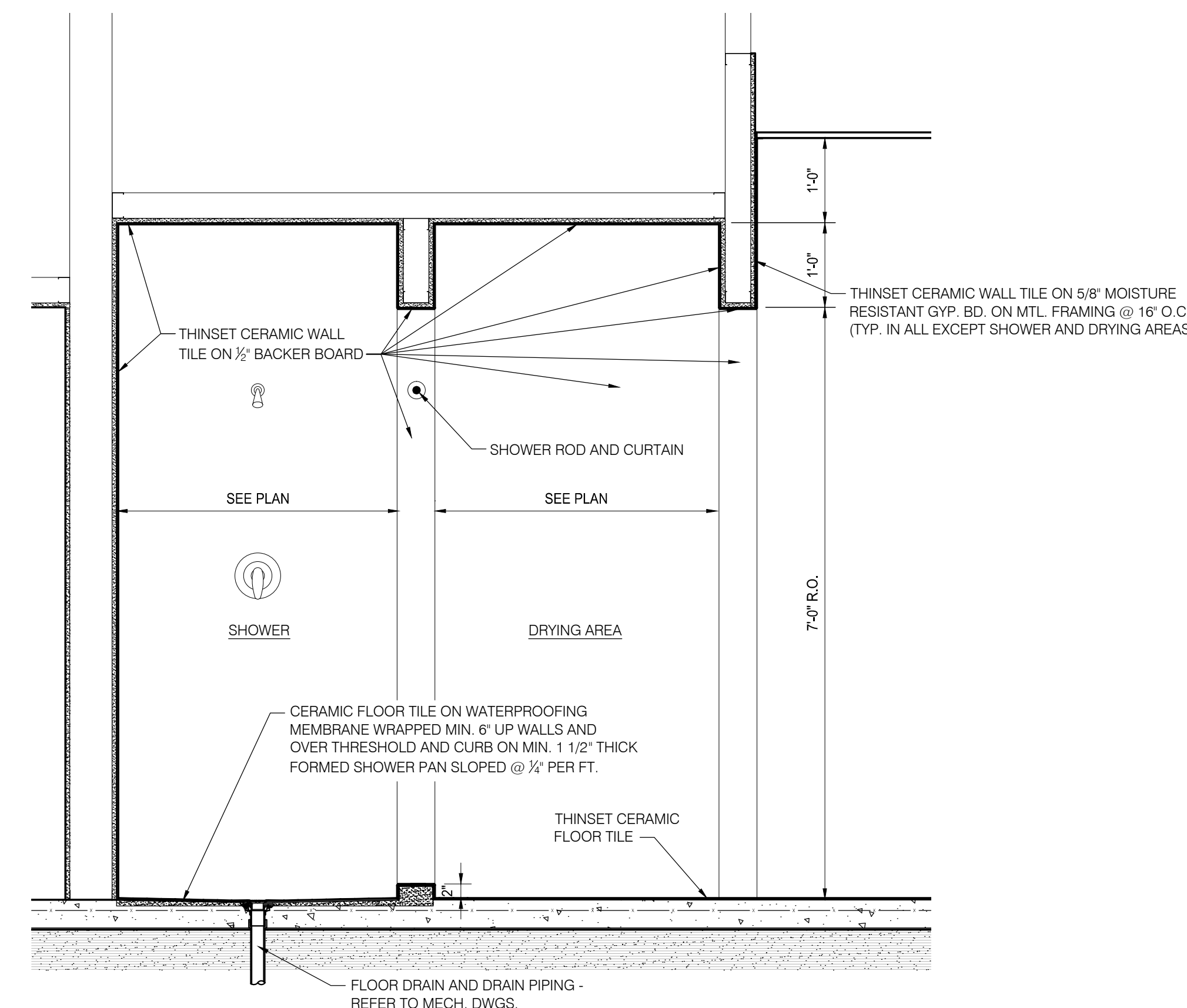
SECTION THRU TYP. LOCKERS
SCALE: 3/4" = 1'-0"



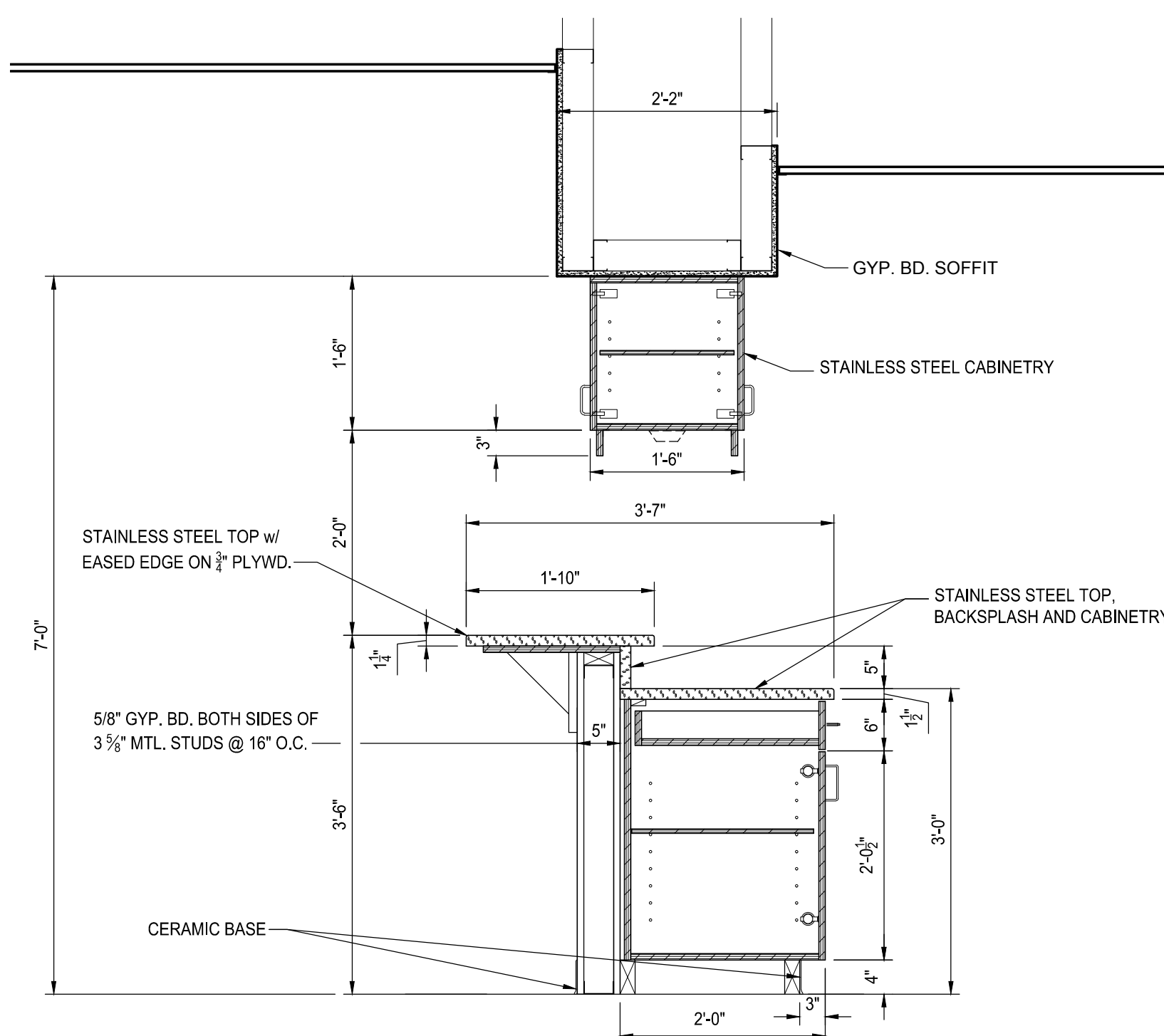
PLAN DETAIL BUNKROOM PARTITIONS
SCALE: 3/4" = 1'-0"



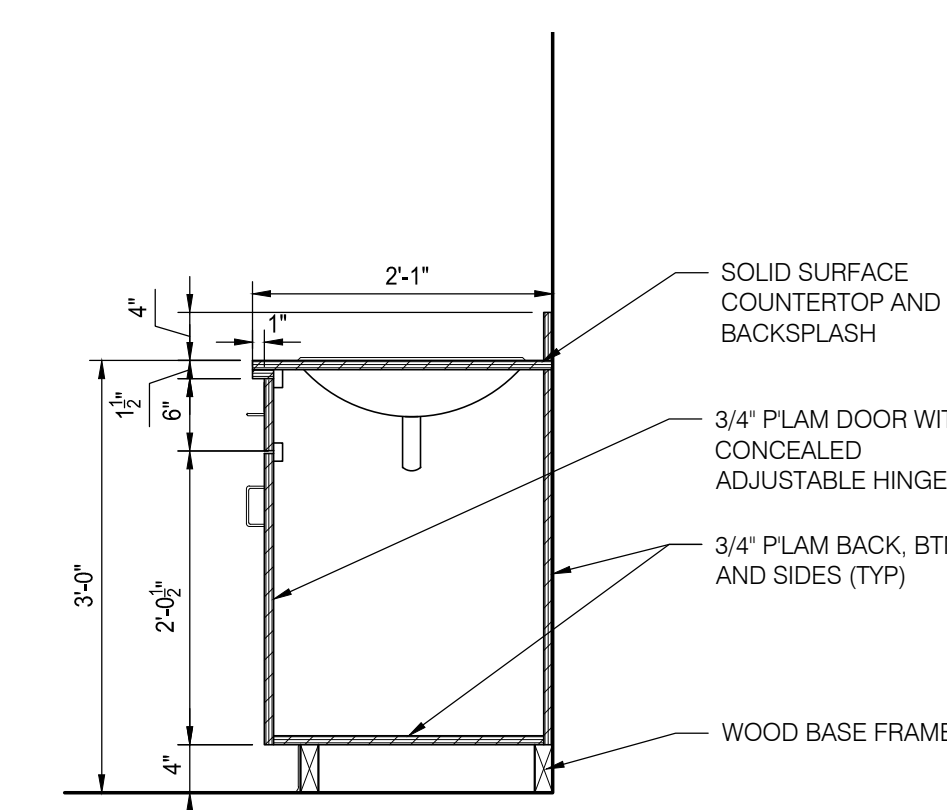
SECTION THRU BUNKROOM PARTITIONS
SCALE: 3/4" = 1'-0"



TYPICAL SHOWER SECTION
SCALE: 3/4" = 1'-0"



SECTION THRU KITCHEN SNACK BAR
SCALE: 3/4" = 1'-0"



SECTION THRU LAVATORY CABINET
SCALE: 3/4" = 1'-0"



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Corporate Headquarters
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Key Plan: No Scale

Client:
CITY OF BIRMINGHAM

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FIRE STATION No. 2

1600 WEST MAPLE
BIRMINGHAM, MI 48009

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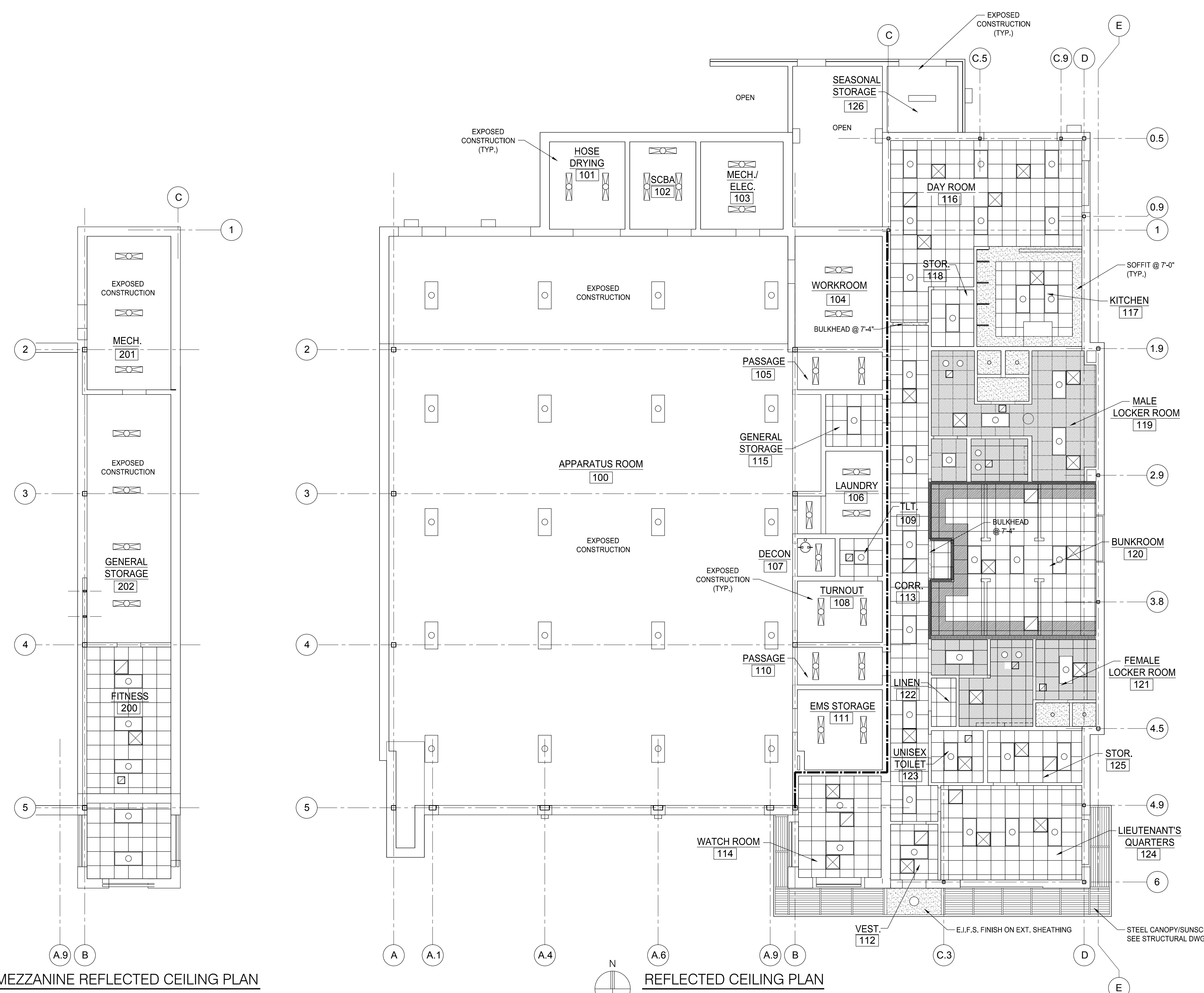
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**REFLECTED
CEILING PLAN**

Project Number: 15566

Sheet Number: **A-610**

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	PAINTED GYPSUM BOARD CEILING, HEADER OR SOFFIT - REFER TO ROOM FINISH SCHEDULE.
	2' x 2' LAY-IN CEILING SYSTEM - REFER TO ROOM FINISH SCHEDULE.
	2' x 2' MOISTURE RESISTANT LAY-IN CEILING SYSTEM - REFER TO ROOM FINISH SCHEDULE.
	6" ACOUSTIC BATT INSULATION ABOVE CEILING TILE
	3 1/2" ACOUSTIC BATT INSULATION IN 5" STUD WALLS
	6" ACOUSTIC BATT INSULATION IN 7 1/2" STUD WALLS
	SUPPLY AIR DIFFUSER - SEE MECH. DWGS.
	RETURN OR EXHAUST GRILLE - SEE MECH. DWGS.
	LAY-IN, SUSPENDED OR RECESSED LIGHTING FIXTURES - SEE ELEC. DWGS.
	1 HOUR FIRE RATING - EXTEND WALLS TIGHT TO UNDERSIDE OF STRUCTURE



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

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



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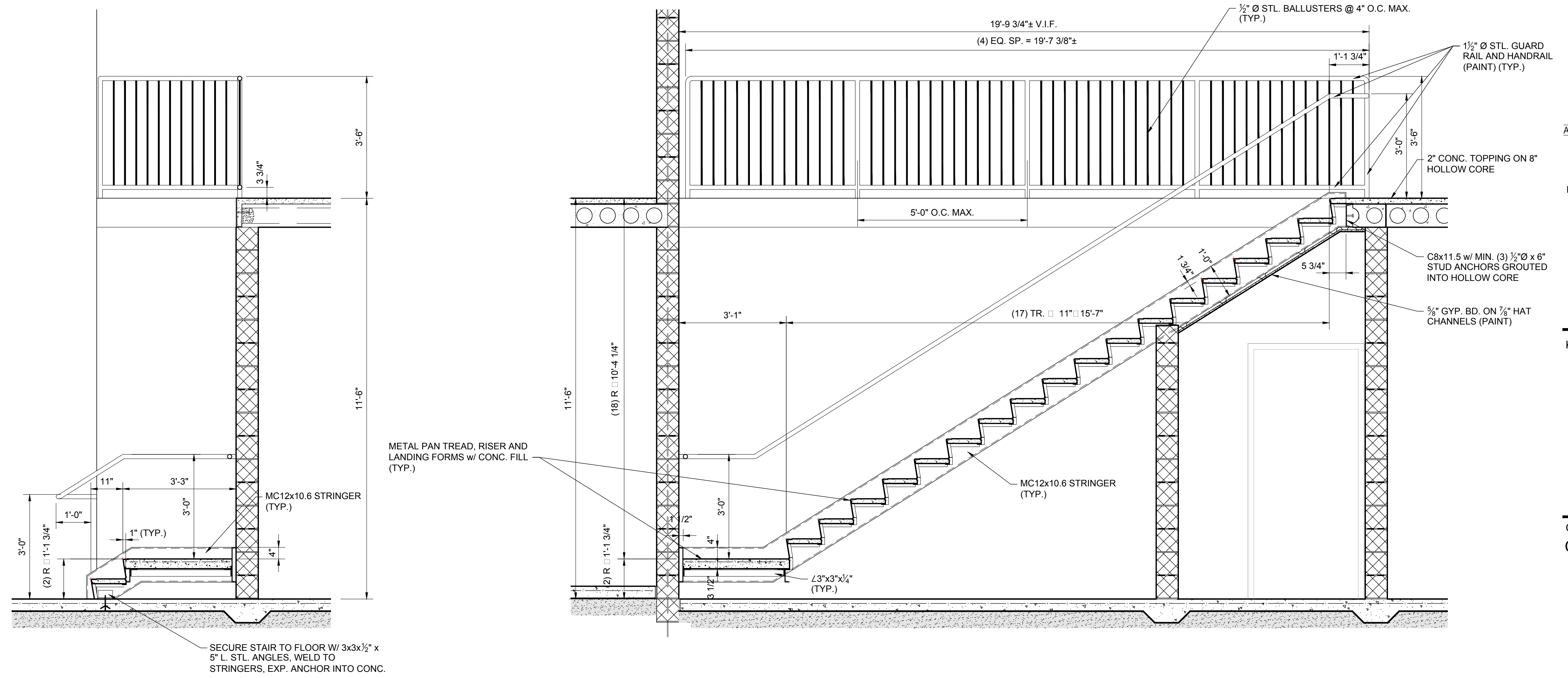
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Sheet Title:
**STAIR PLAN,
SECTIONS AND
DETAILS**

Project Number: 15566

Sheet Number: **A-701**

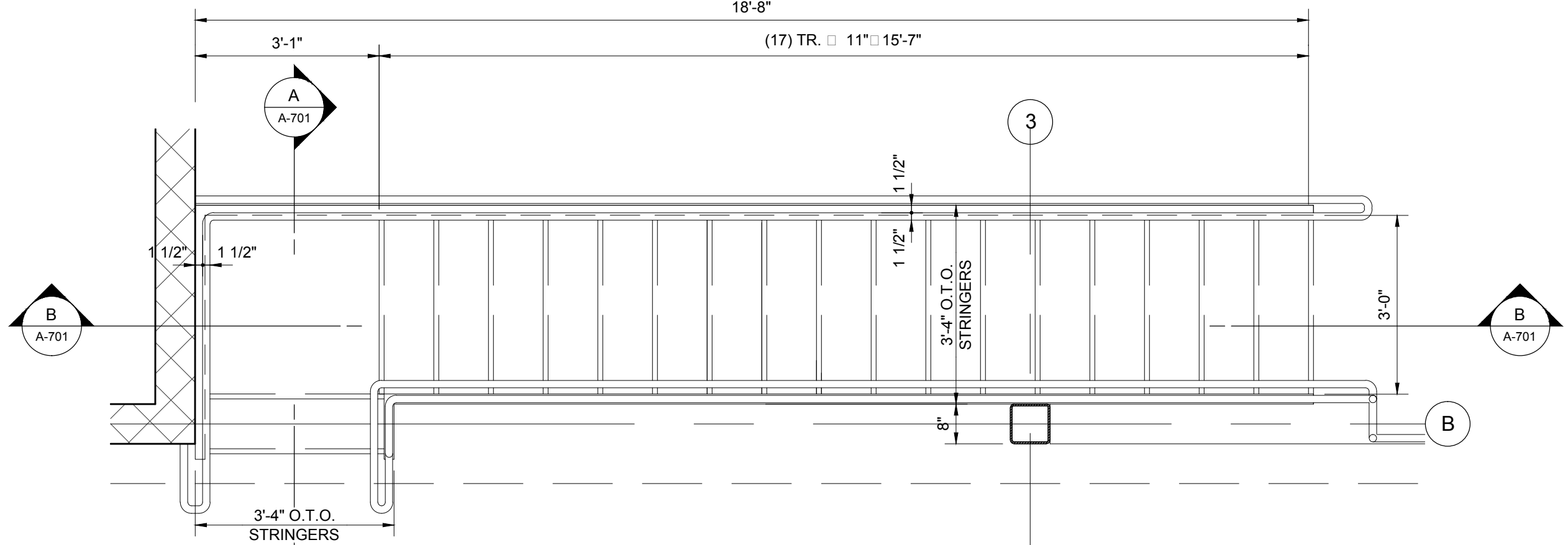
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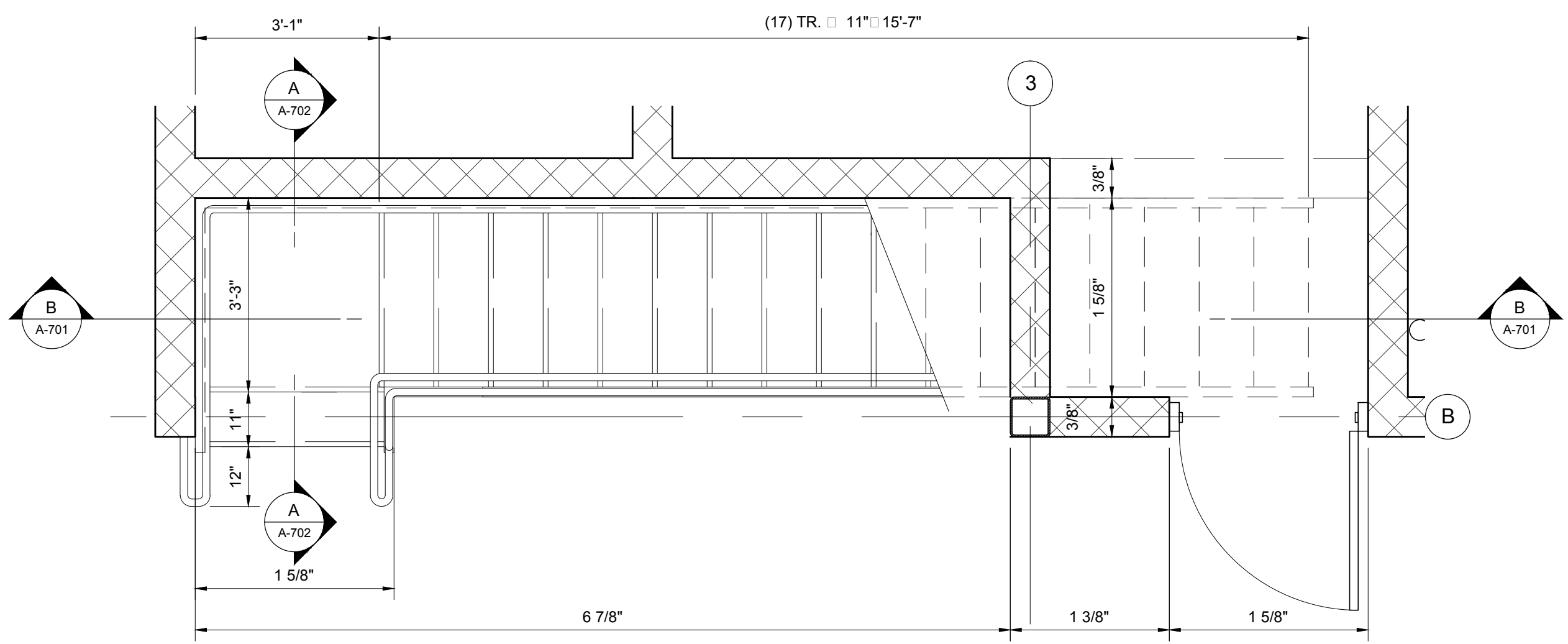
A STAIR SECTION
A-701 SCALE: 1/2" = 1'-0"

NOTE:
PAINT ALL EXPOSED STEEL SURFACES OF STAIR AND RAILINGS

B STAIR SECTION
A-701 SCALE: 1/2" = 1'-0"



1A STAIR PLAN - MEZZANINE
A-401 SCALE: 1/2" = 1'-0"



1 STAIR PLAN - FIRST FLOOR
A-401 SCALE: 1/2" = 1'-0"



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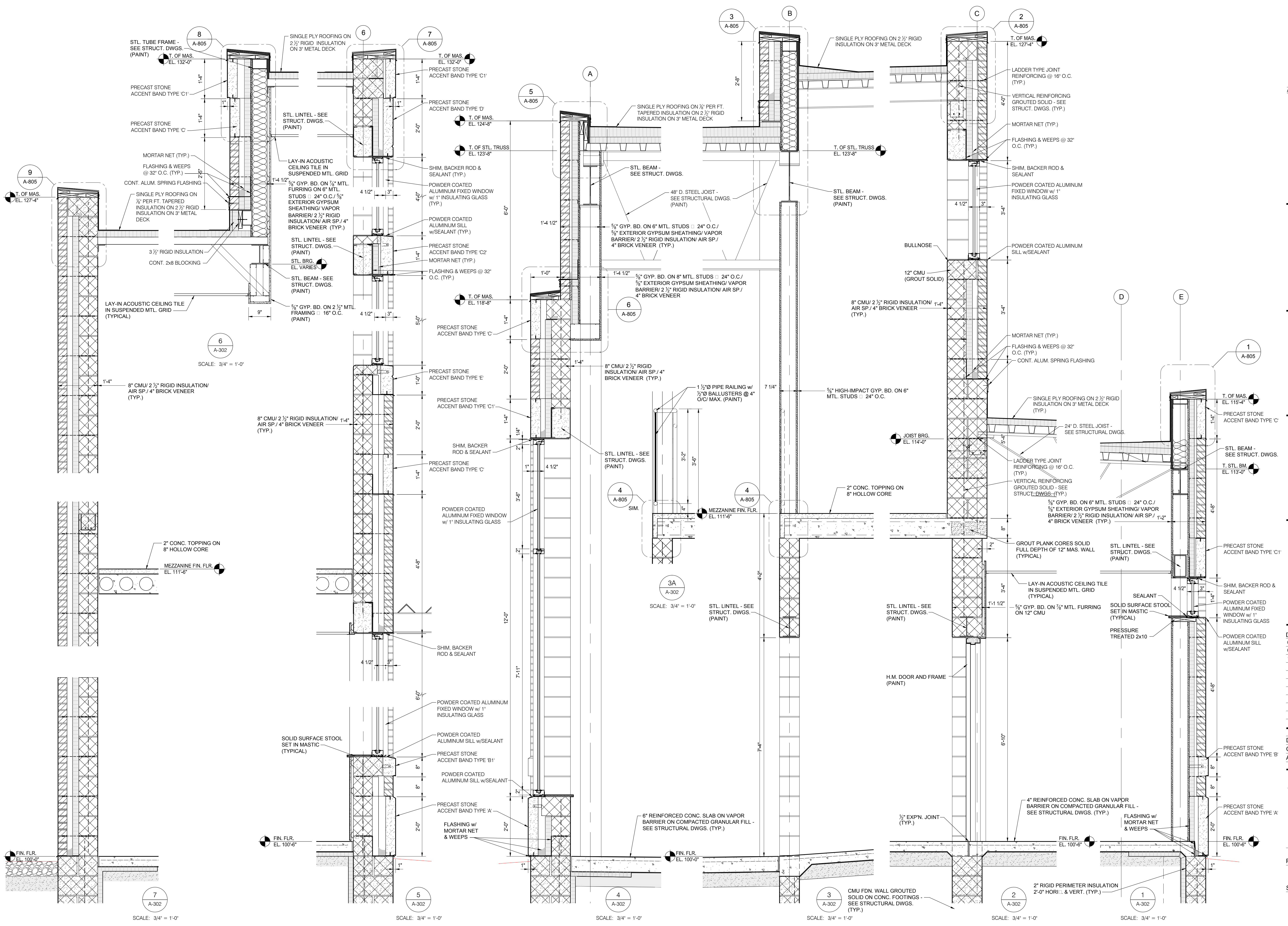
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Sheet Title:
WALL SECTIONS

Project Number: 15566

Sheet Number: **A-801**

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

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

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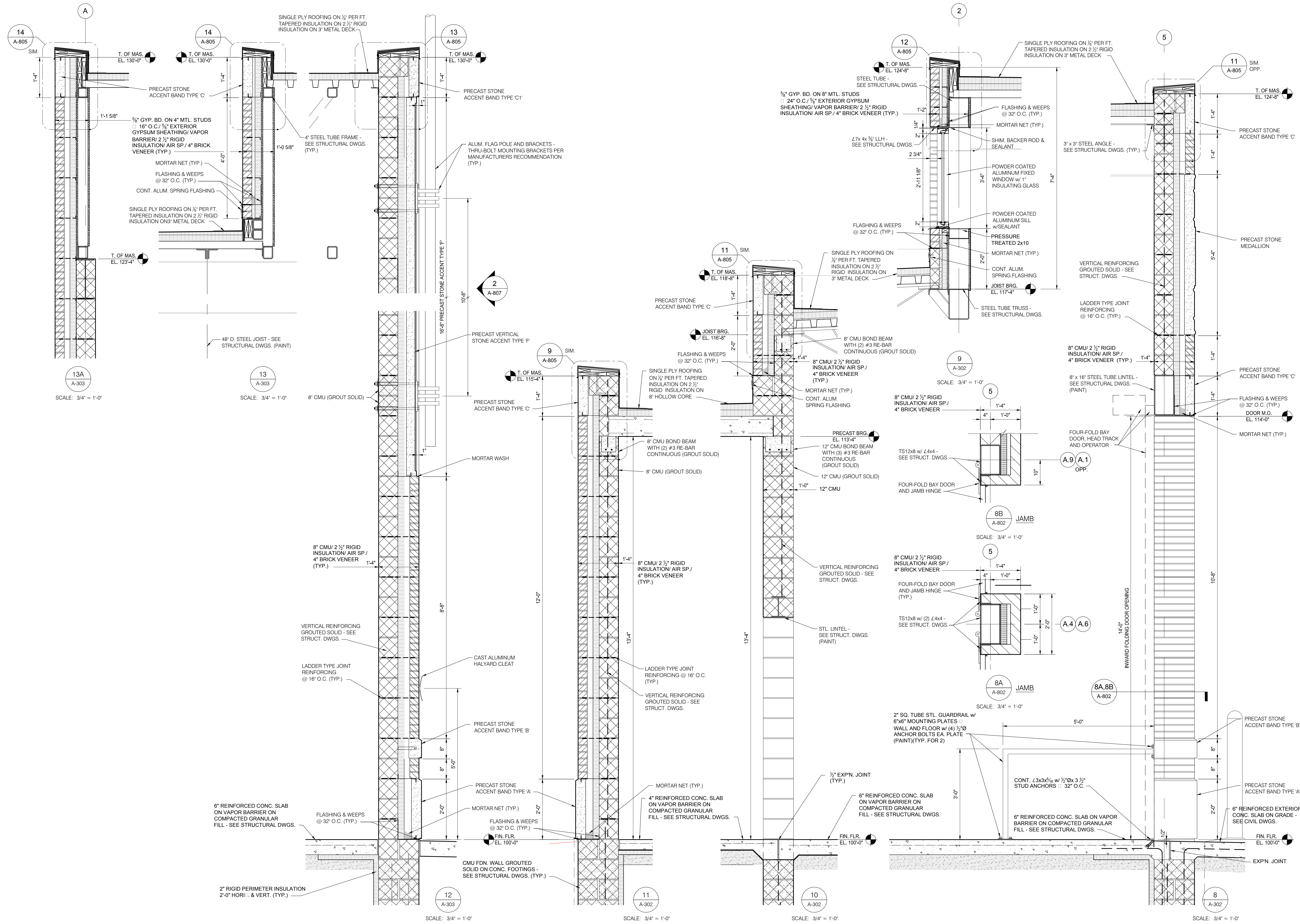
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Sheet Title: WALL SECTIONS

Project Number: 15566

Sheet Number: **A-802**

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12/05/16	BIDS

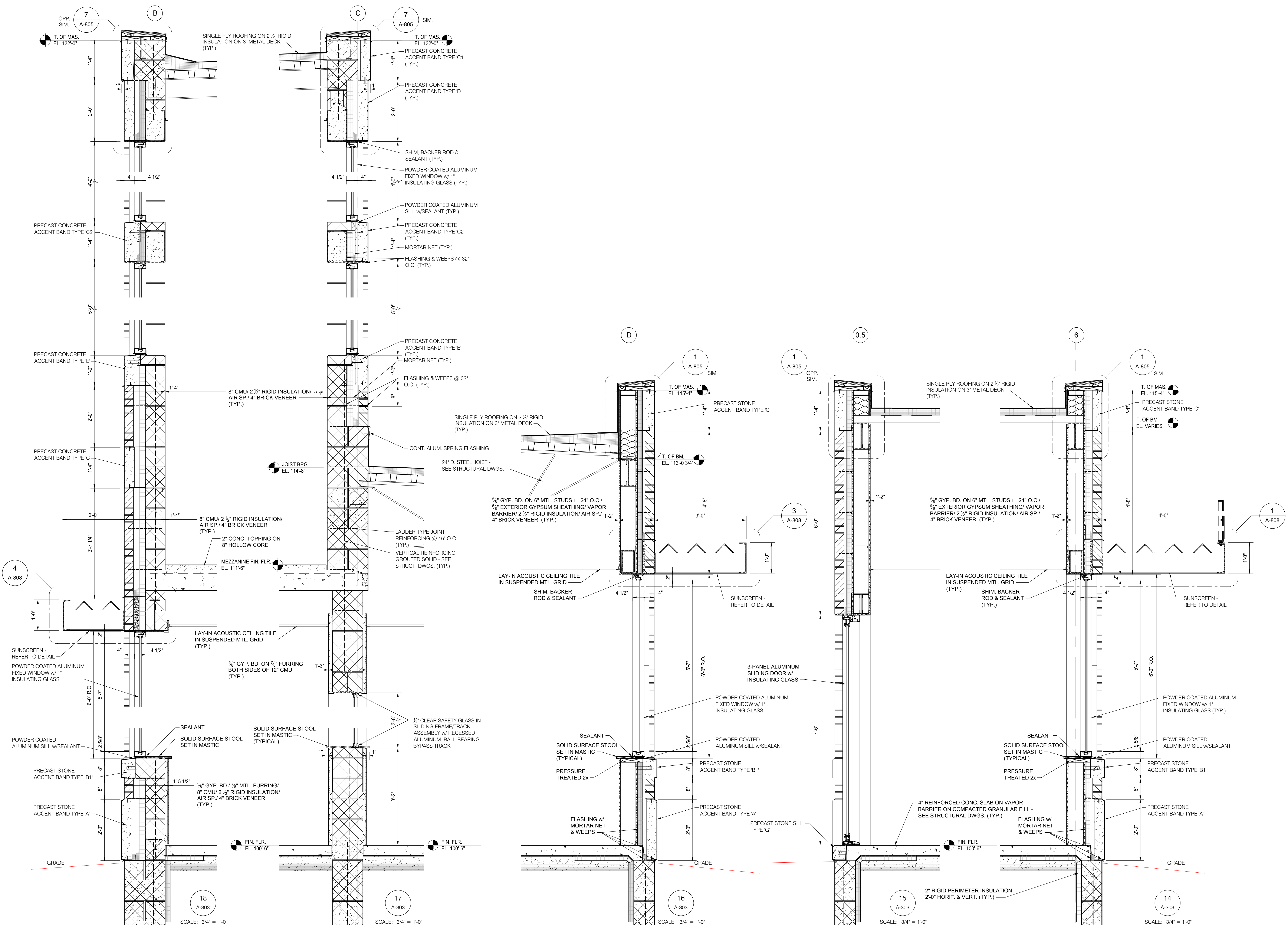
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Sheet Title:
WALL SECTIONS

Project Number: 15566

Sheet Number: **A-803**

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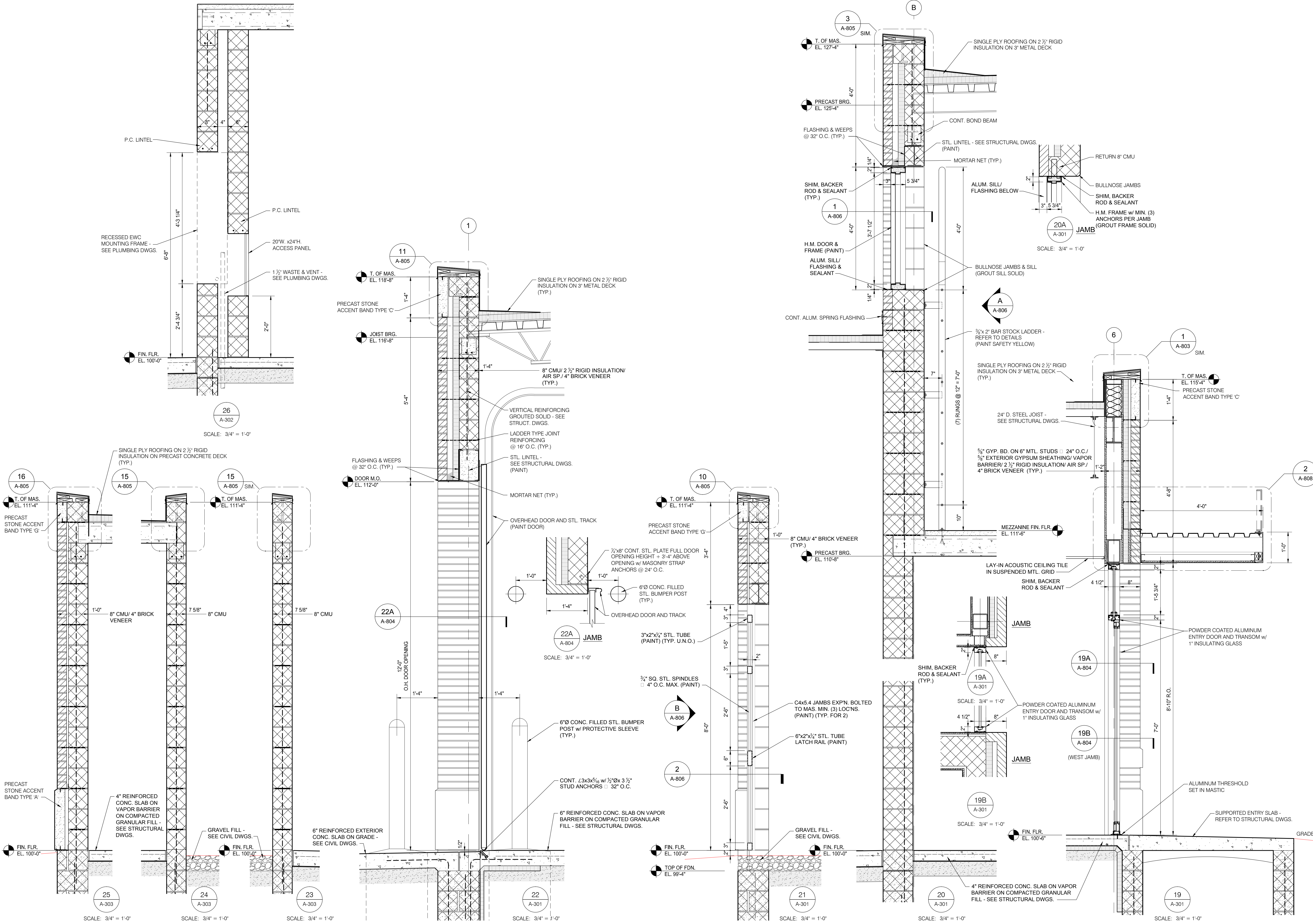
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Sheet Title:
**WALL SECTIONS
AND DETAILS**

Project Number: 15566

Sheet Number: **A-804**

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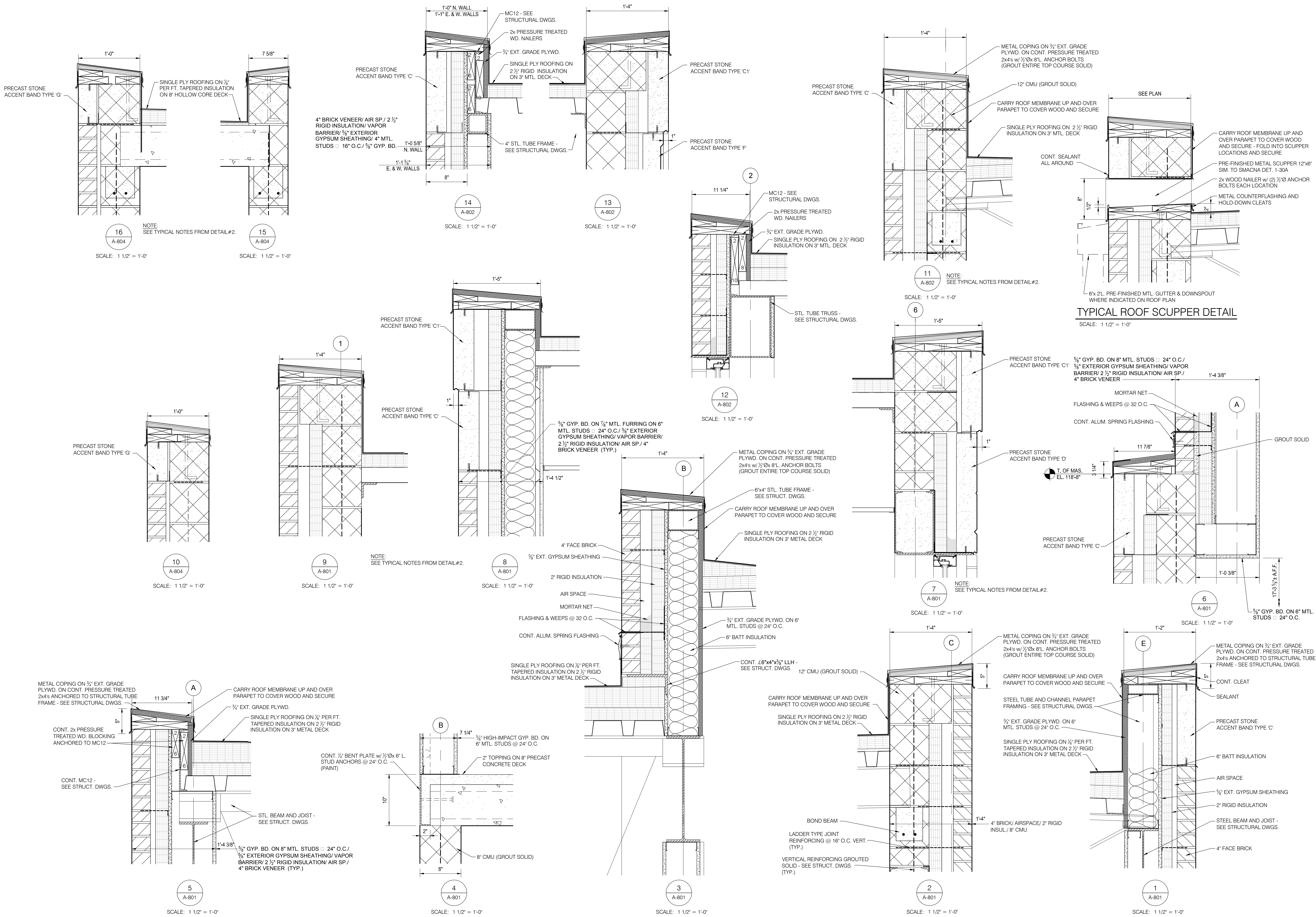
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Sheet Title:
**SECTIONS
AND DETAILS**

Project Number: 15566

Sheet Number: **A-805**

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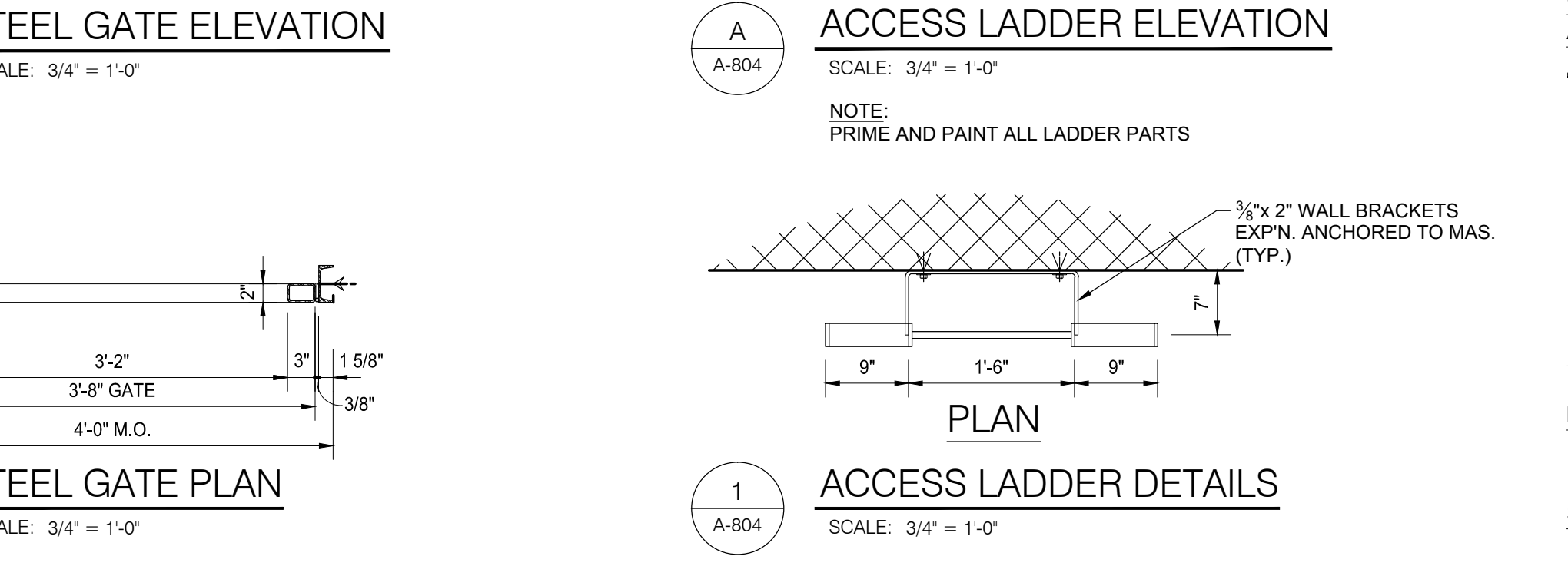
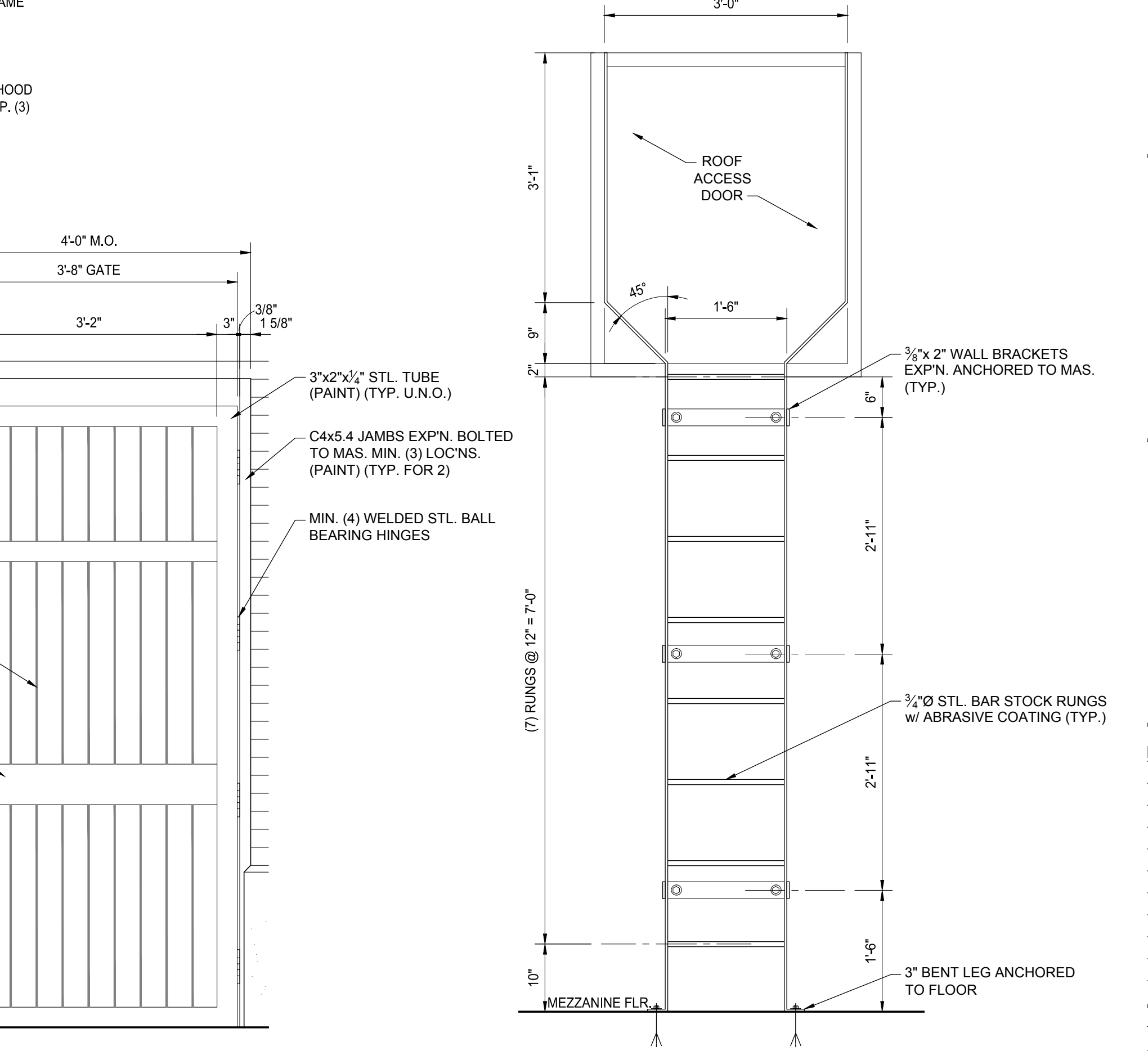
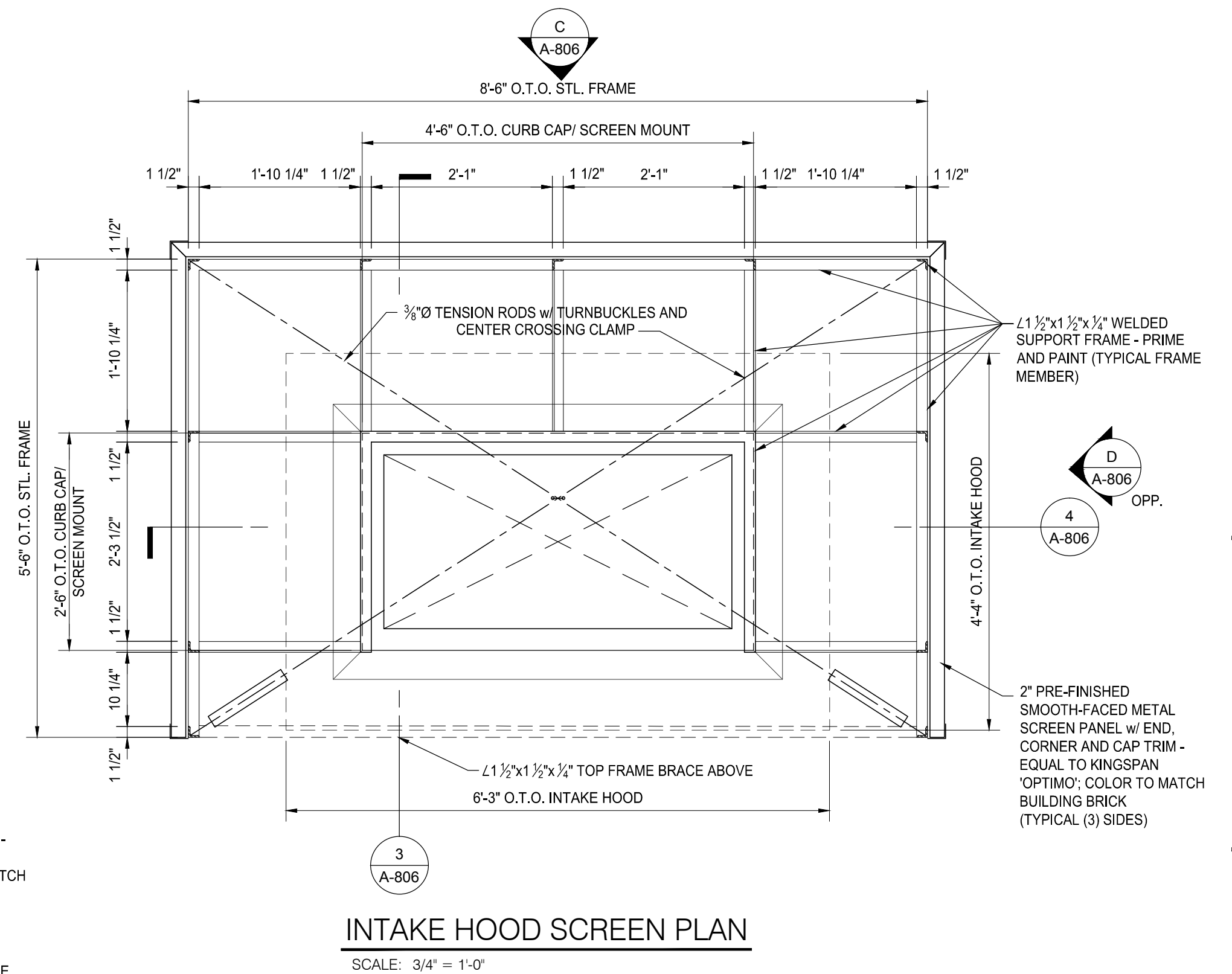
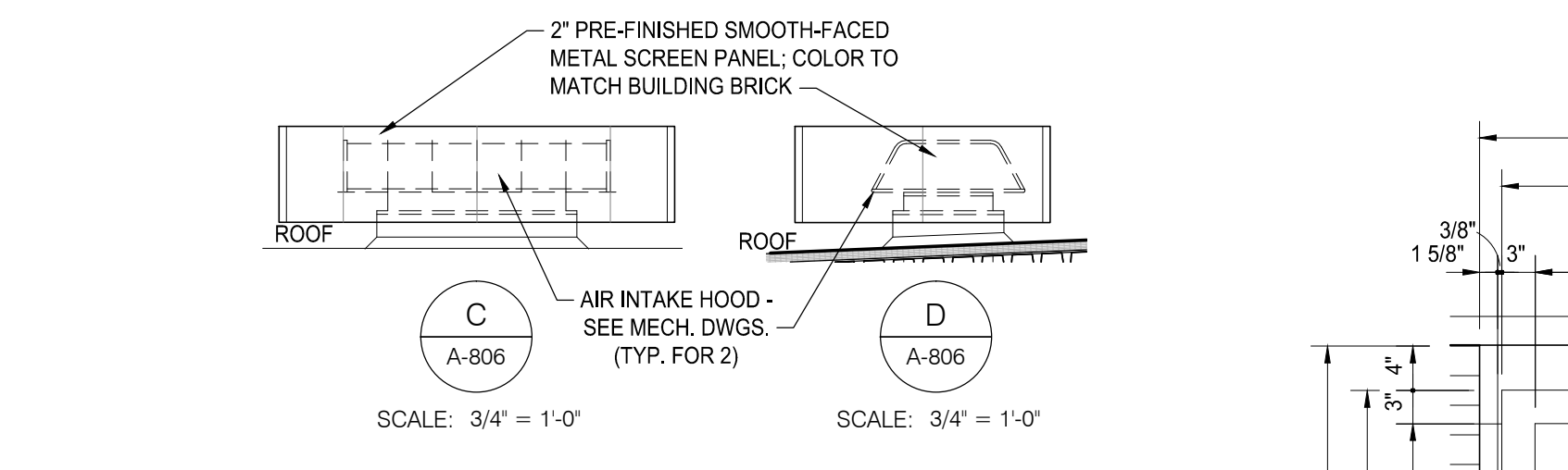
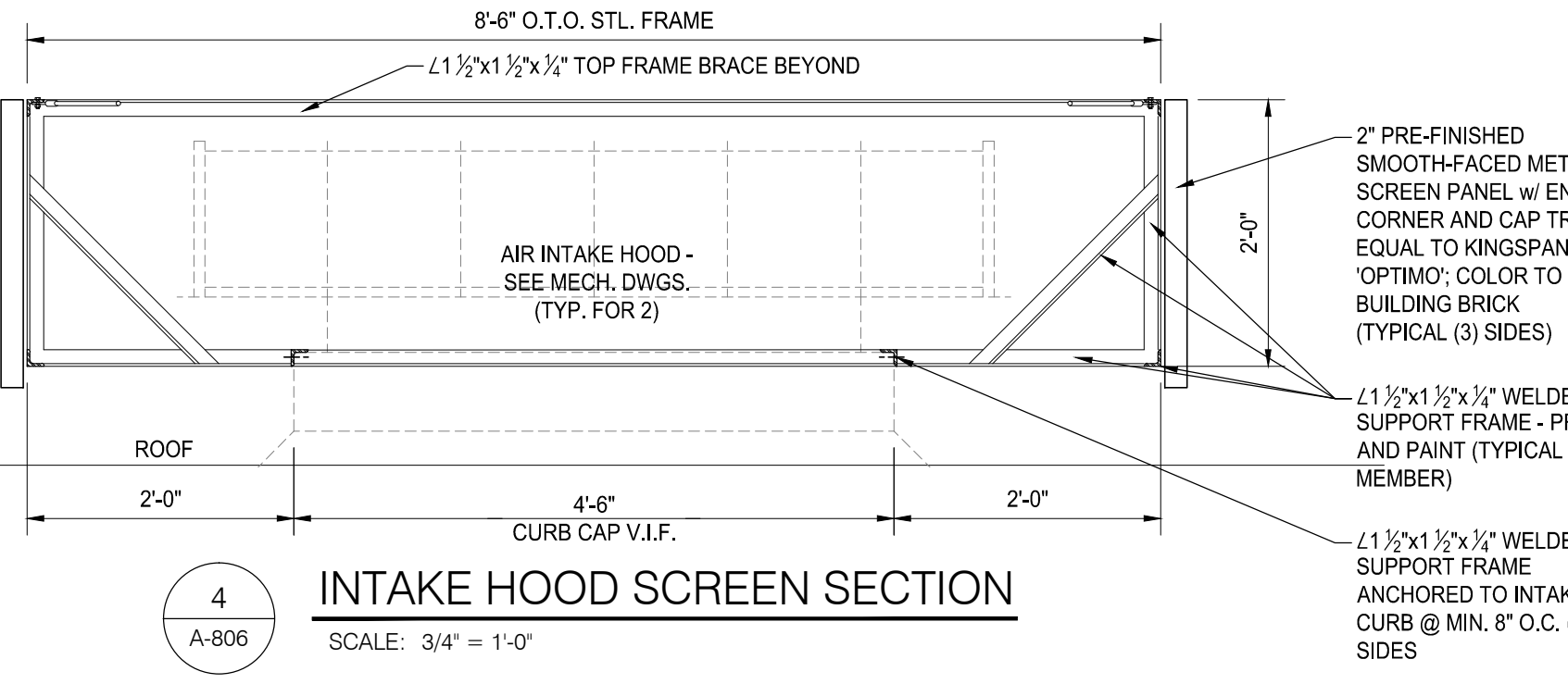
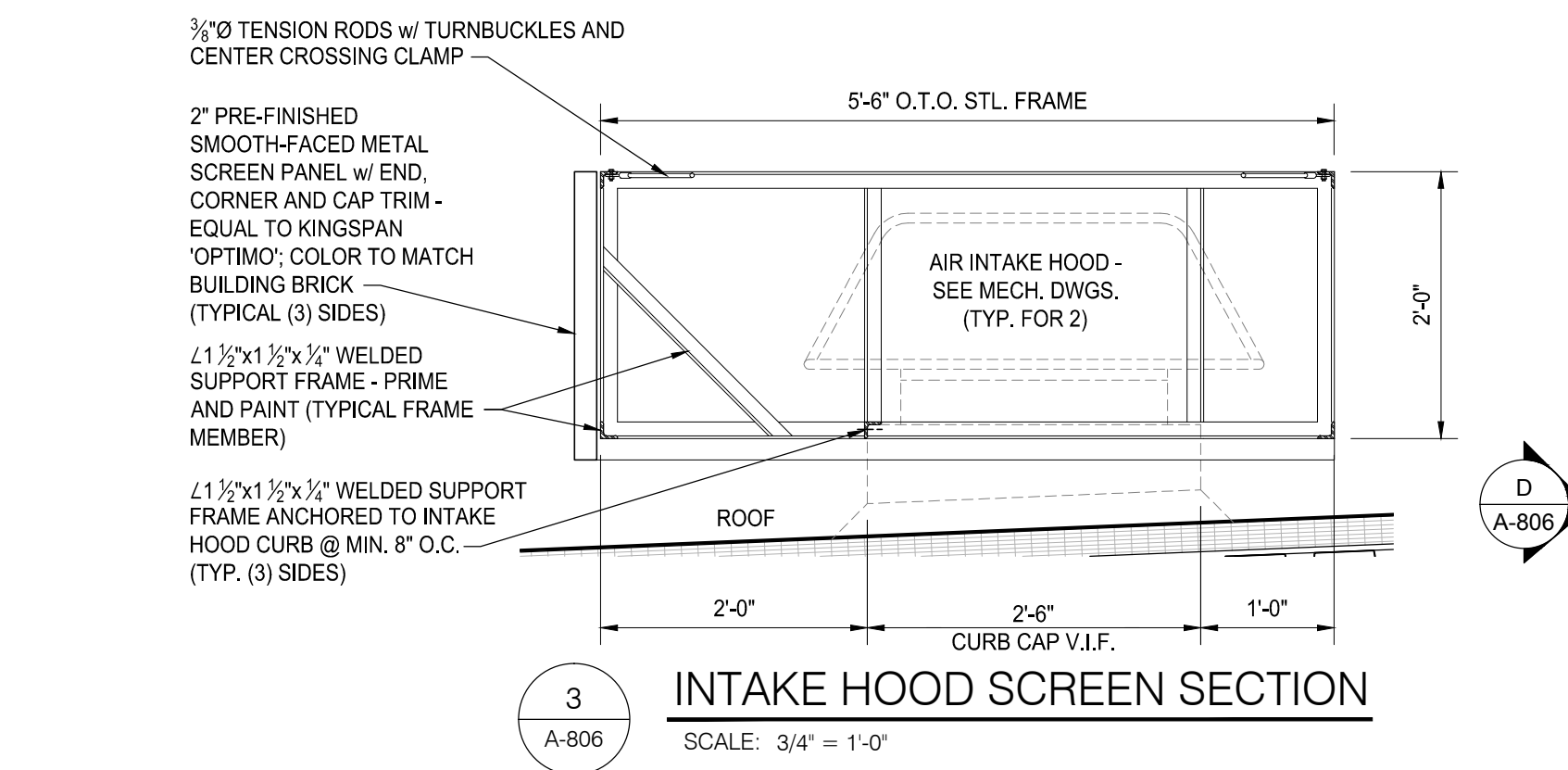
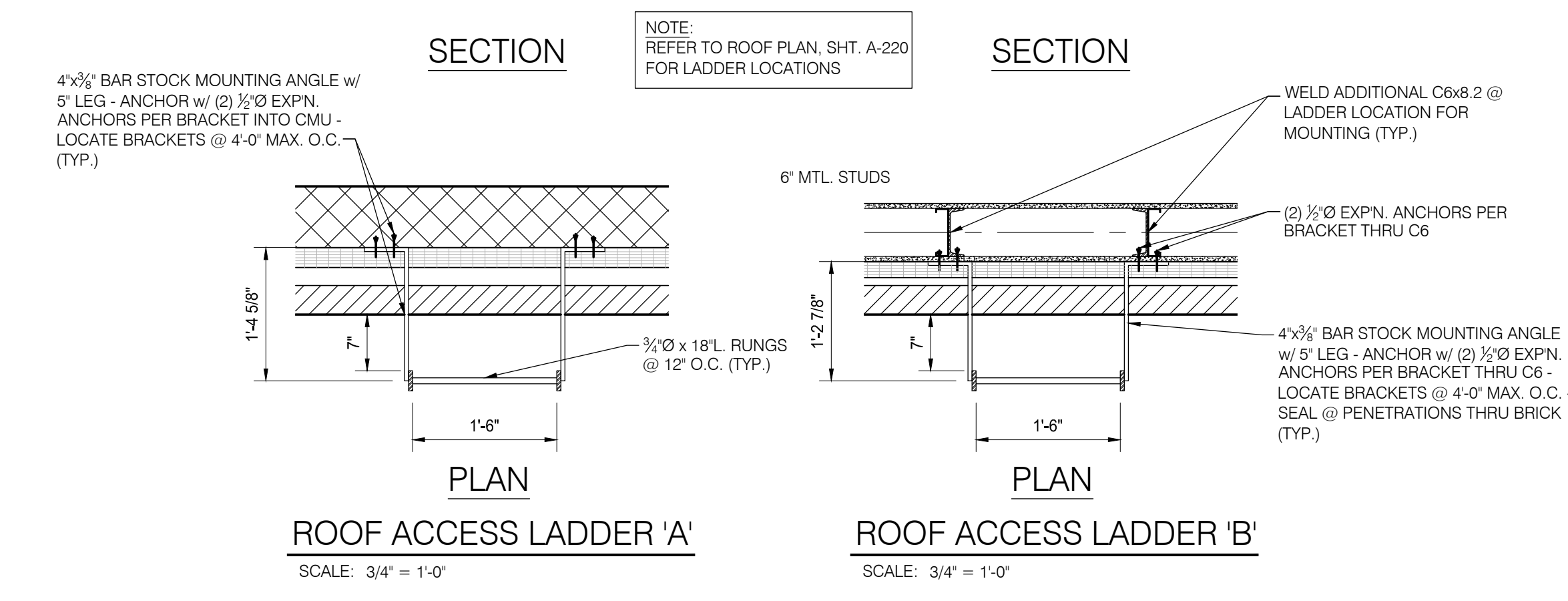
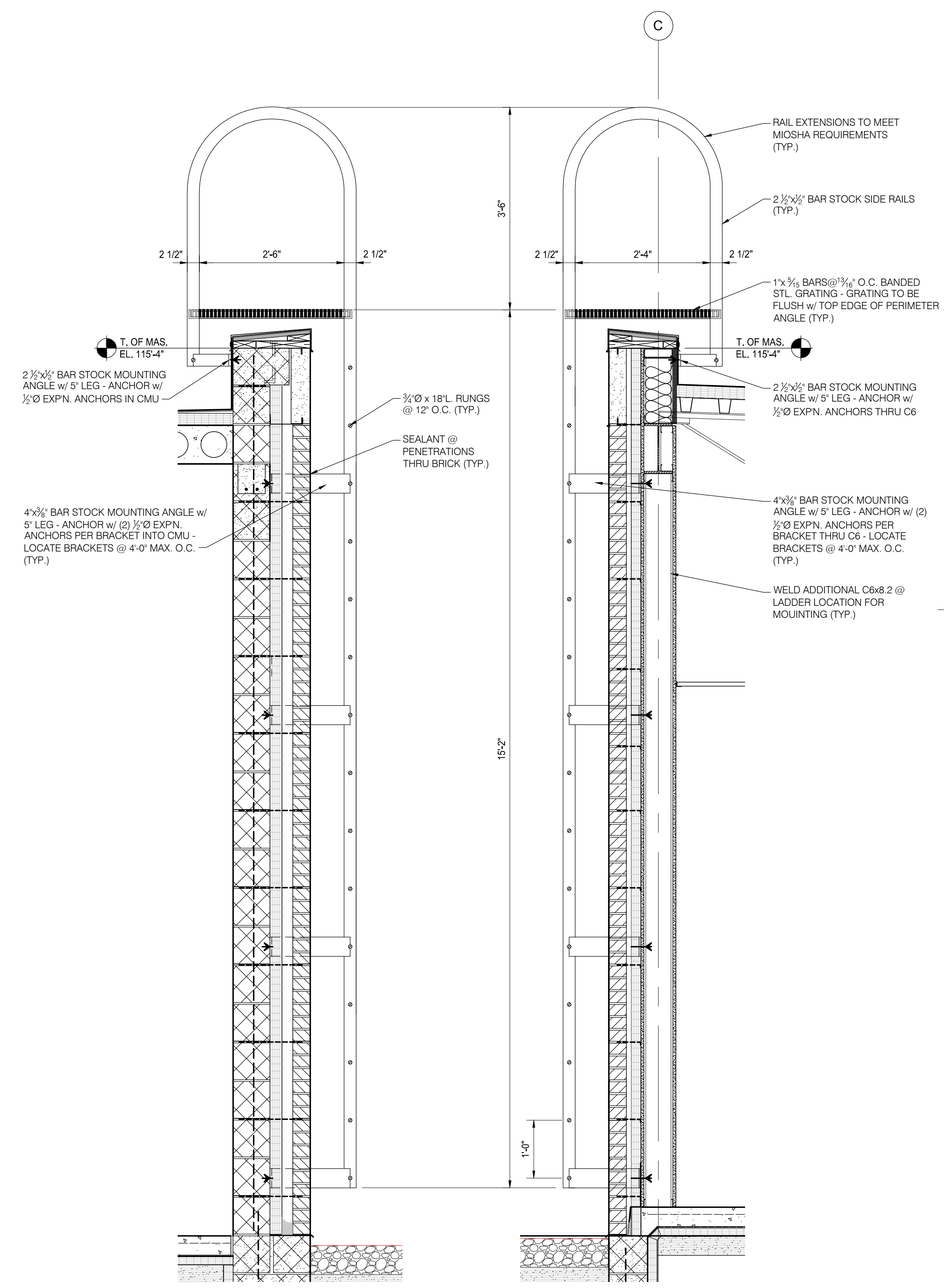
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Sheet Title:
SECTIONS
AND DETAILS

Project Number: 15566

Sheet Number: A-806

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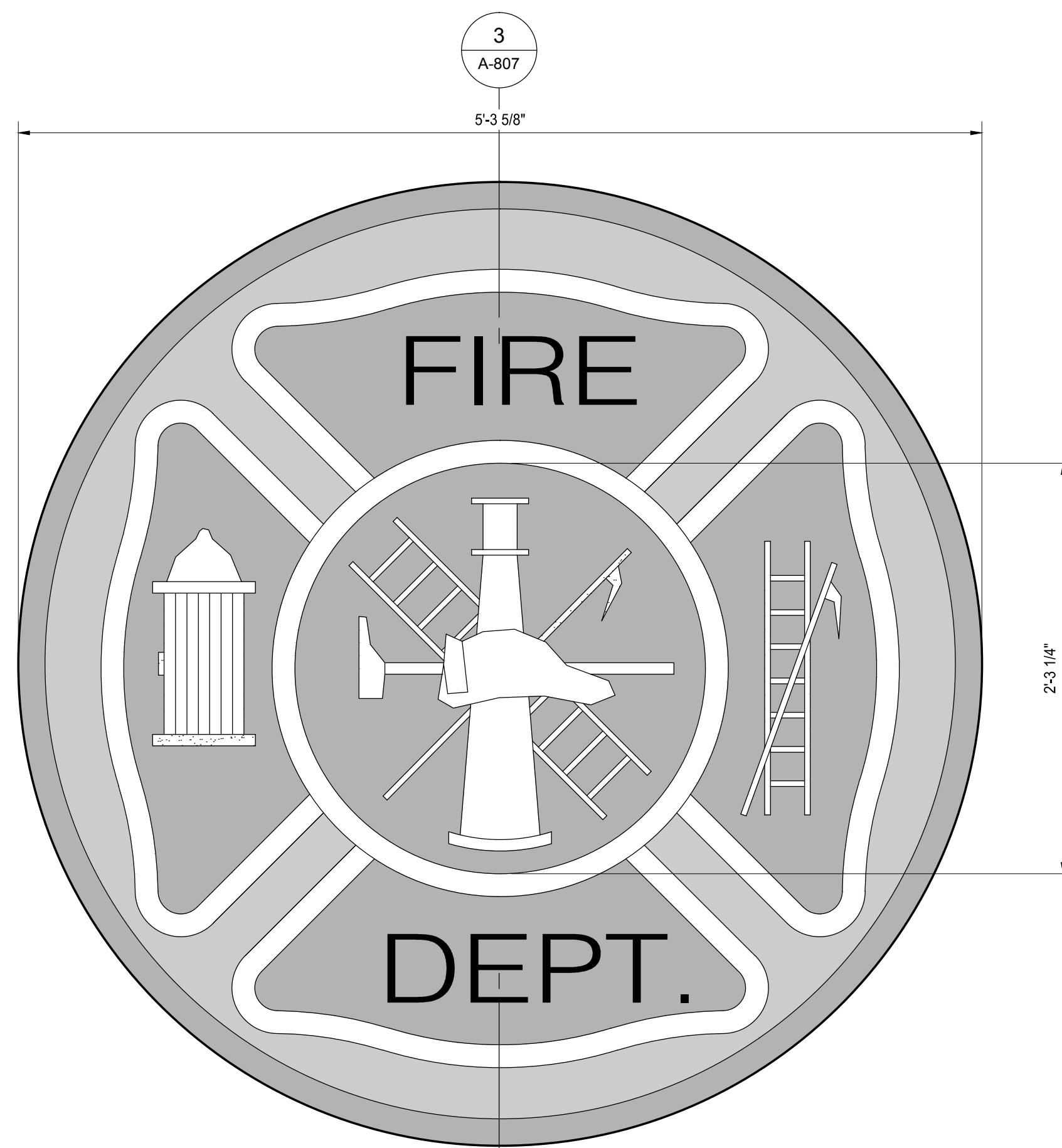
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Approved:	S. PETERSON

Sheet Title:
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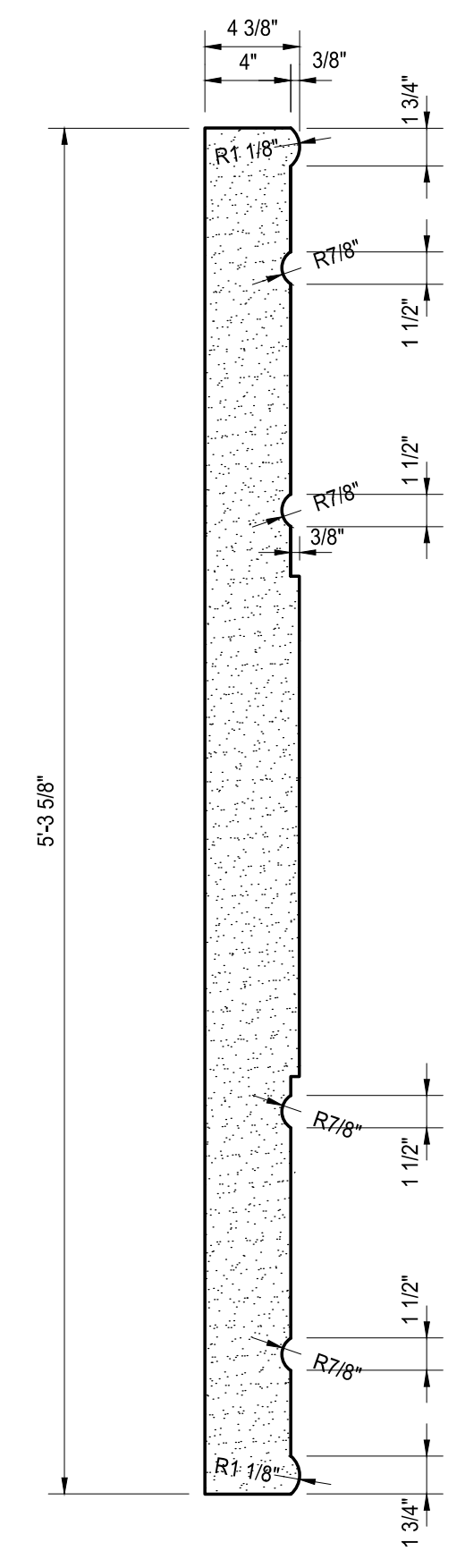
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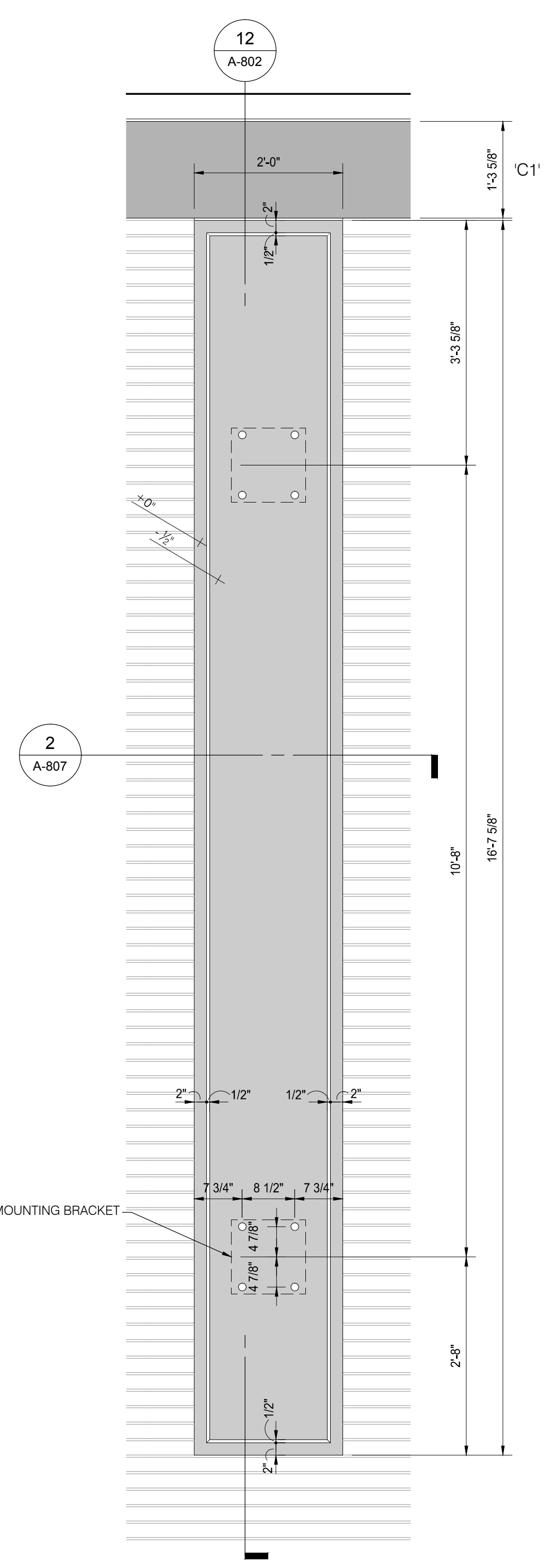
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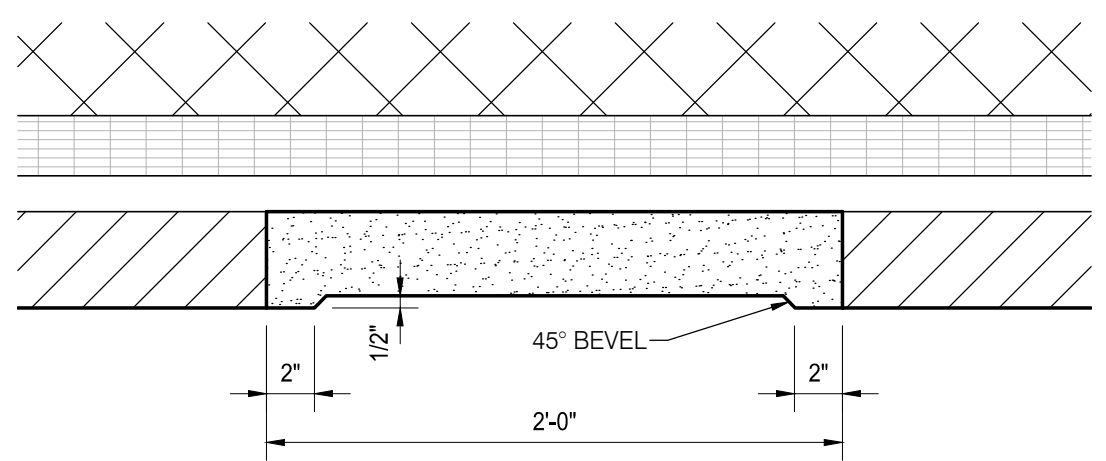
18 A-803 SIM.
14,16 A-803
MEDALLION STONE



3 A-807
SCALE: 1 1/2" = 1'-0"

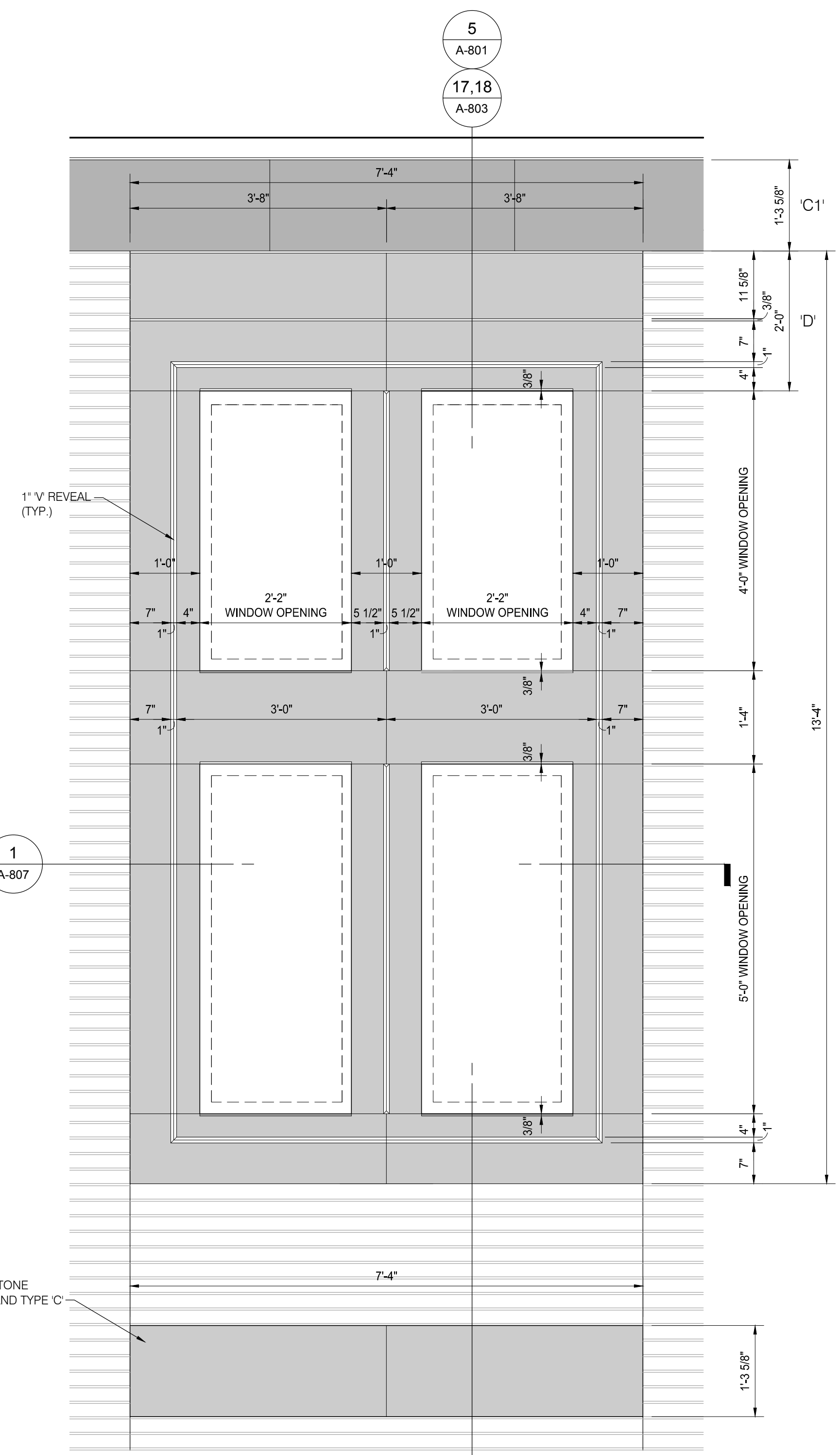


NOTE:
COORDINATE FLAGPOLE MOUNTING BRACKET ANCHOR BOLT LOCATIONS w/ FLAGPOLE SUPPLIER.

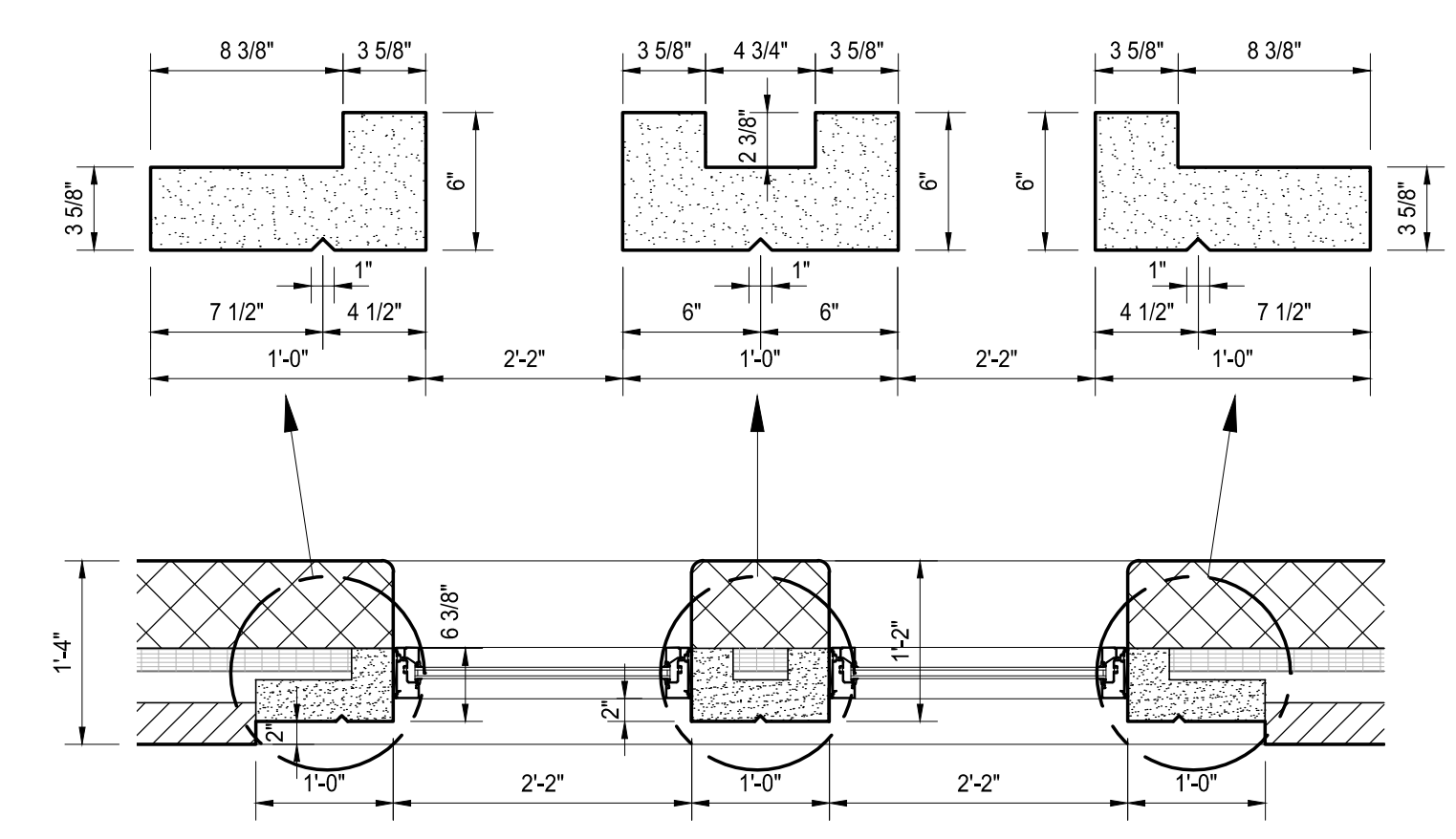


2 A-807
SCALE: 1 1/2" = 1'-0"

FLAG TOWER STONE

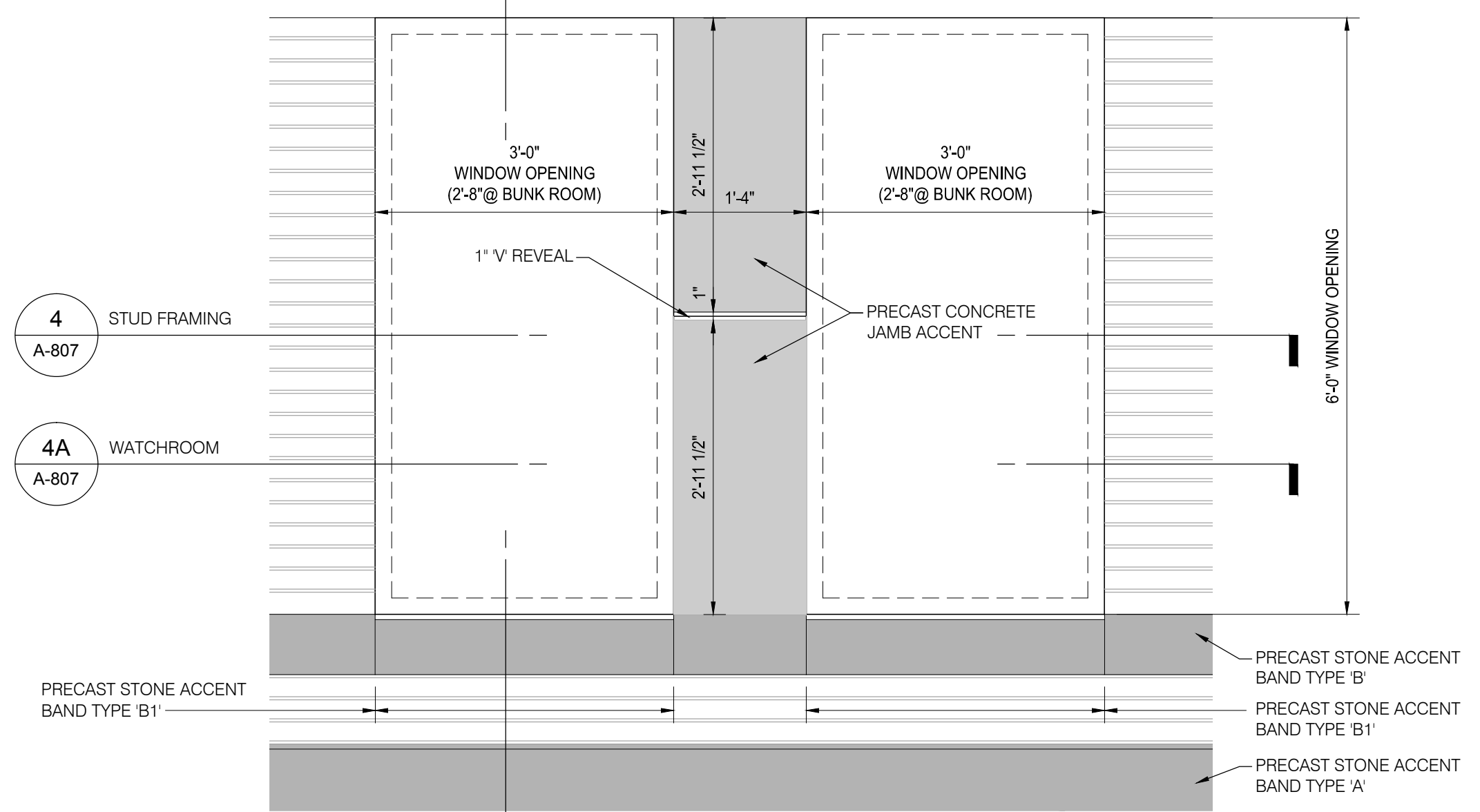


TYPICAL TOWER STONE

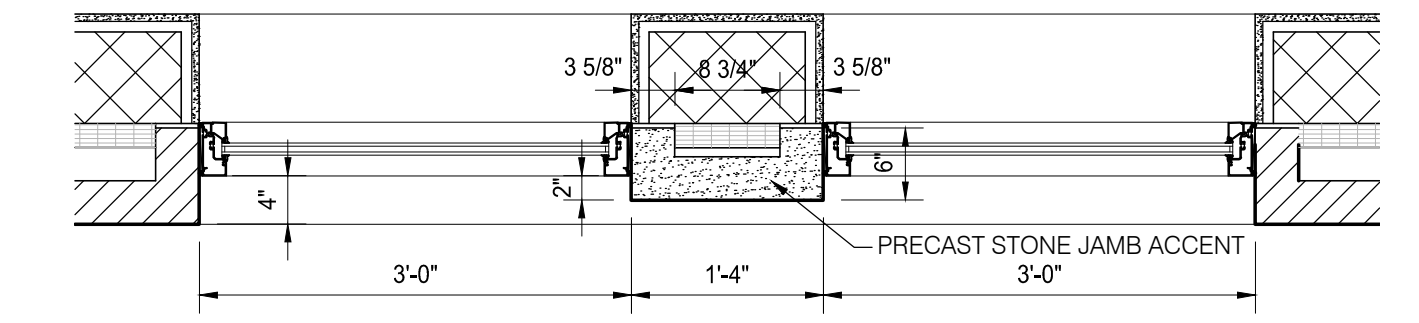


1 A-807
SCALE: 3/4" = 1'-0"

PLAN DETAIL @ TOWER WINDOWS

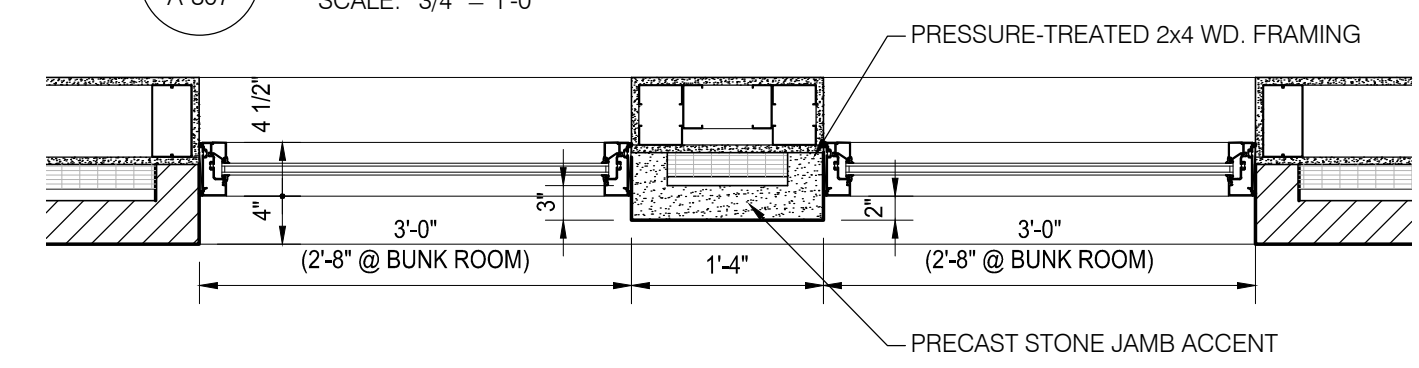


ELEVATION



4A A-807
SCALE: 3/4" = 1'-0"

PLAN DETAIL @ WATCHROOM WINDOWS



4 A-807
SCALE: 3/4" = 1'-0"

PLAN DETAIL @ STUD FRAMED WINDOWS

TYPICAL WINDOW OPENINGS



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Client:
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Project:
**BIRMINGHAM
FIRE STATION No. 2**

1600 WEST MAPLE
BIRMINGHAM, MI 48009

Seal:

Date: 07/29/16 Issued For: FINAL REVIEW
12/05/16 BIDS

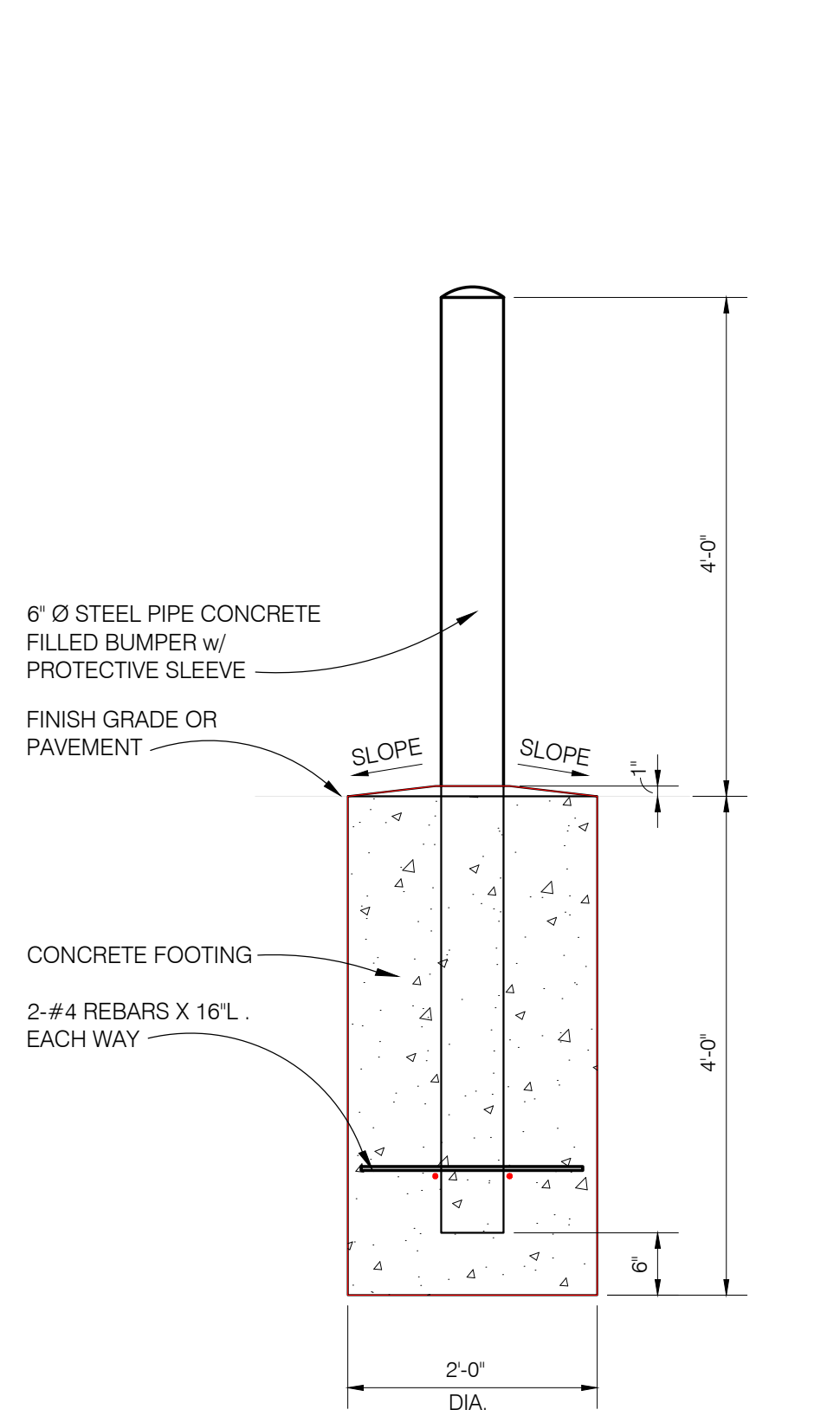
Drawn: K. GILSON
Checked: S. PETERSON
Approved: S. PETERSON

Sheet Title:
DETAILS

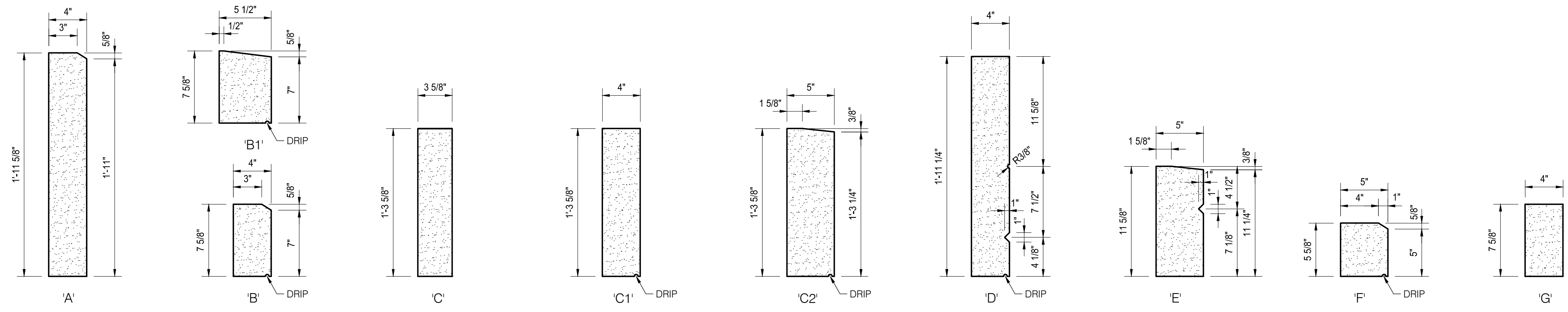
Project Number: 15566

Sheet Number: **A-808**

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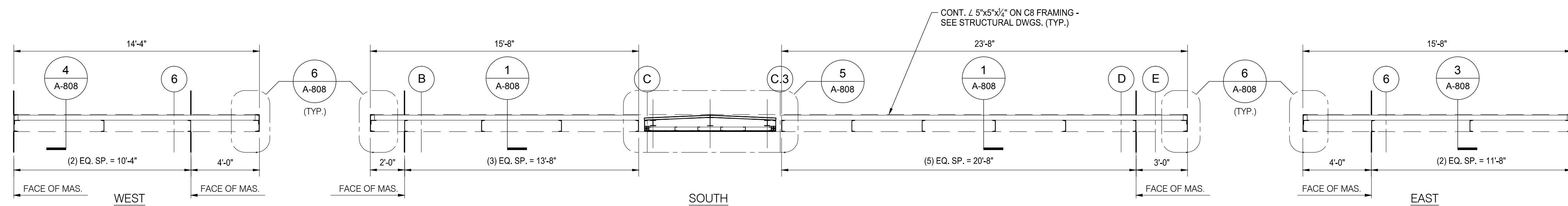


SECTION THRU TYP. BUMPER POST
SCALE: 3/4" = 1'-0"



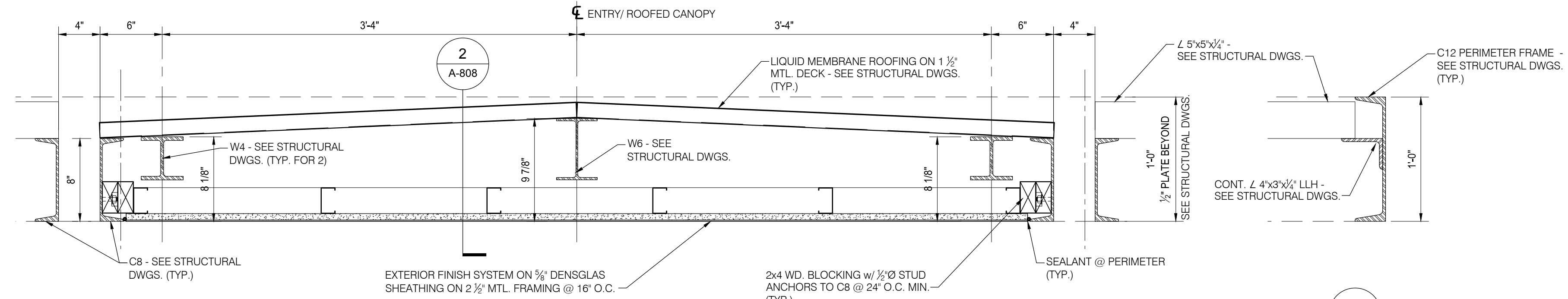
PRECAST STONE ACCENT TYPE PROFILES

SCALE: 1 1/2" = 1'-0"



SECTION THRU CANOPY

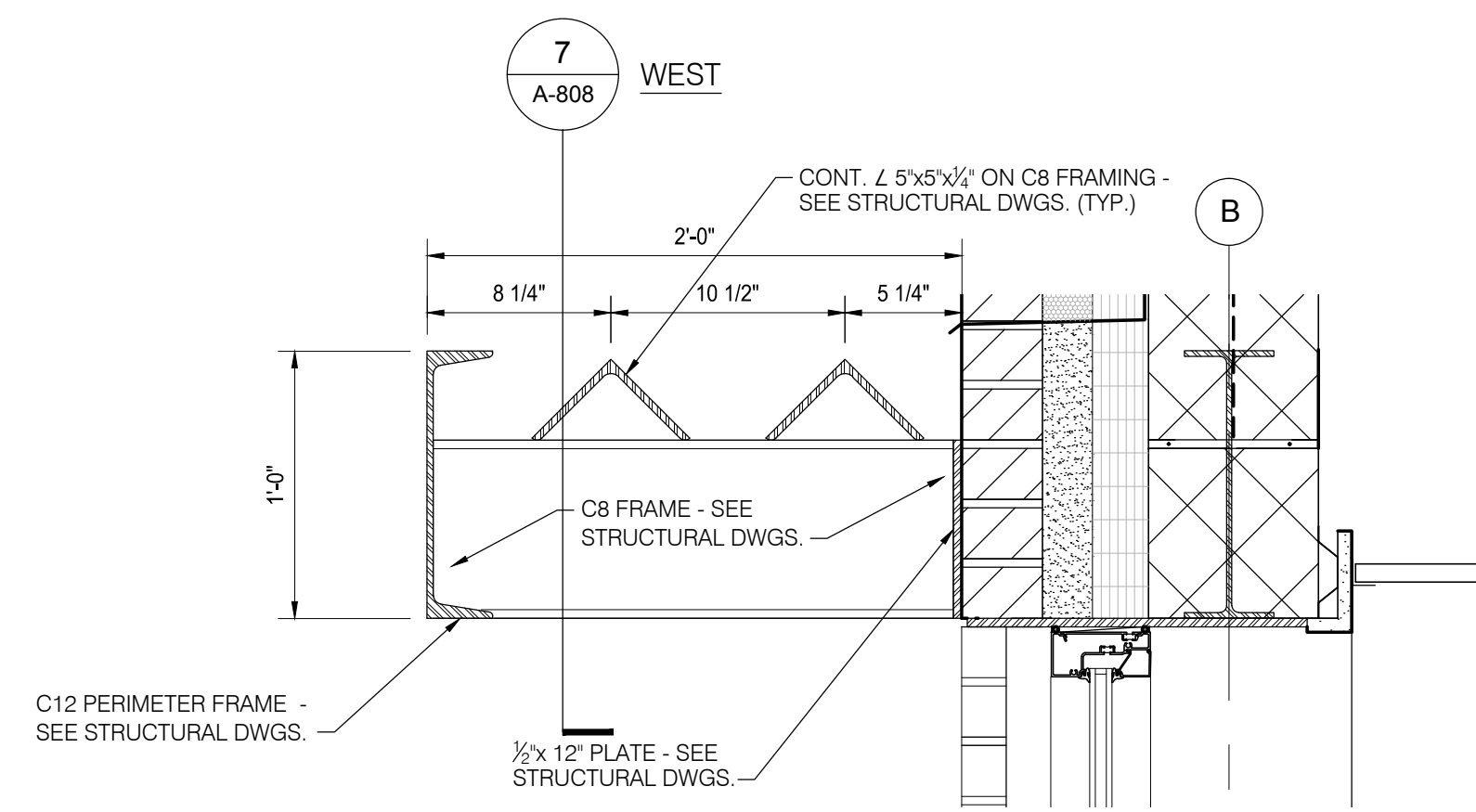
SCALE: 1/4" = 1'-0"



NOTE:
ALL EXPOSED STRUCTURAL STEEL FOR THE CANOPY/SUNSCREEN SHALL BE SHOP FABRICATED AND FINISHED - REFER TO STRUCTURAL DWGS.

2 A-808

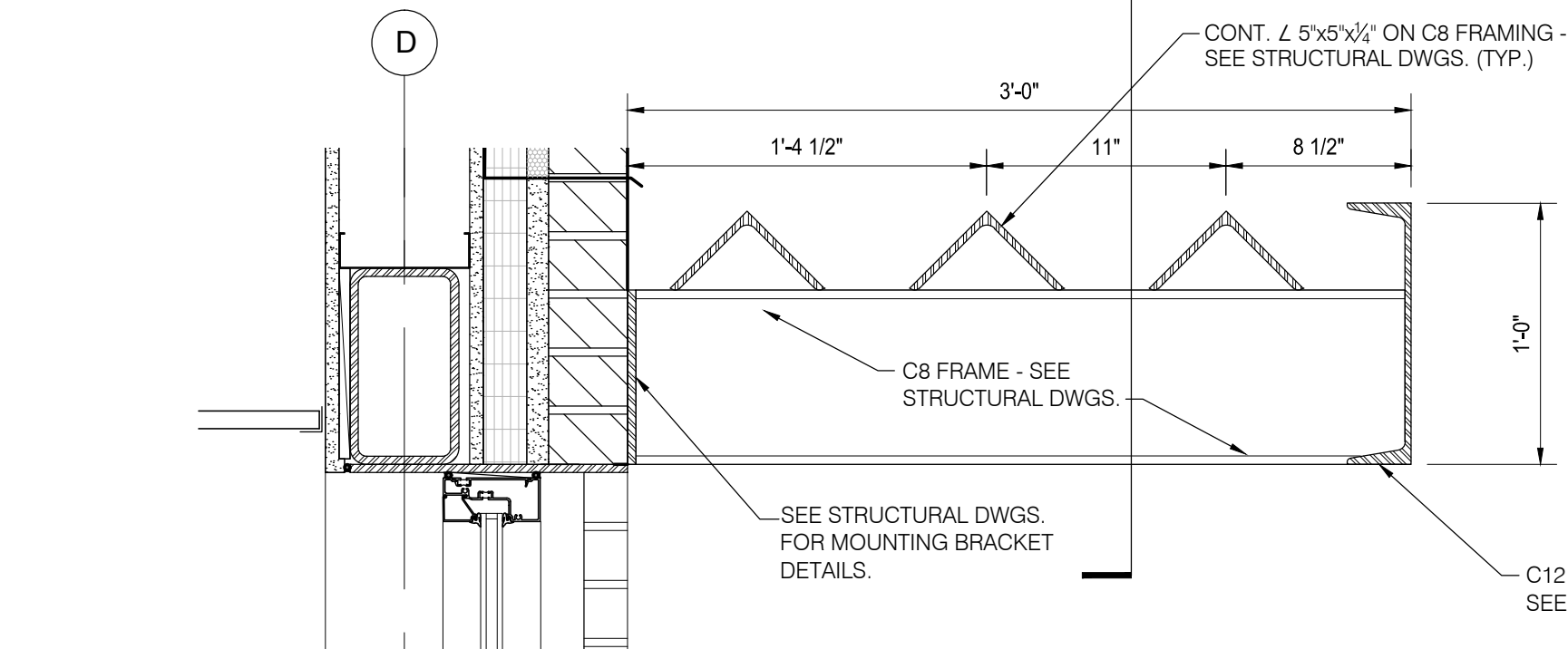
SCALE: 1 1/2" = 1'-0"



7 A-808 WEST

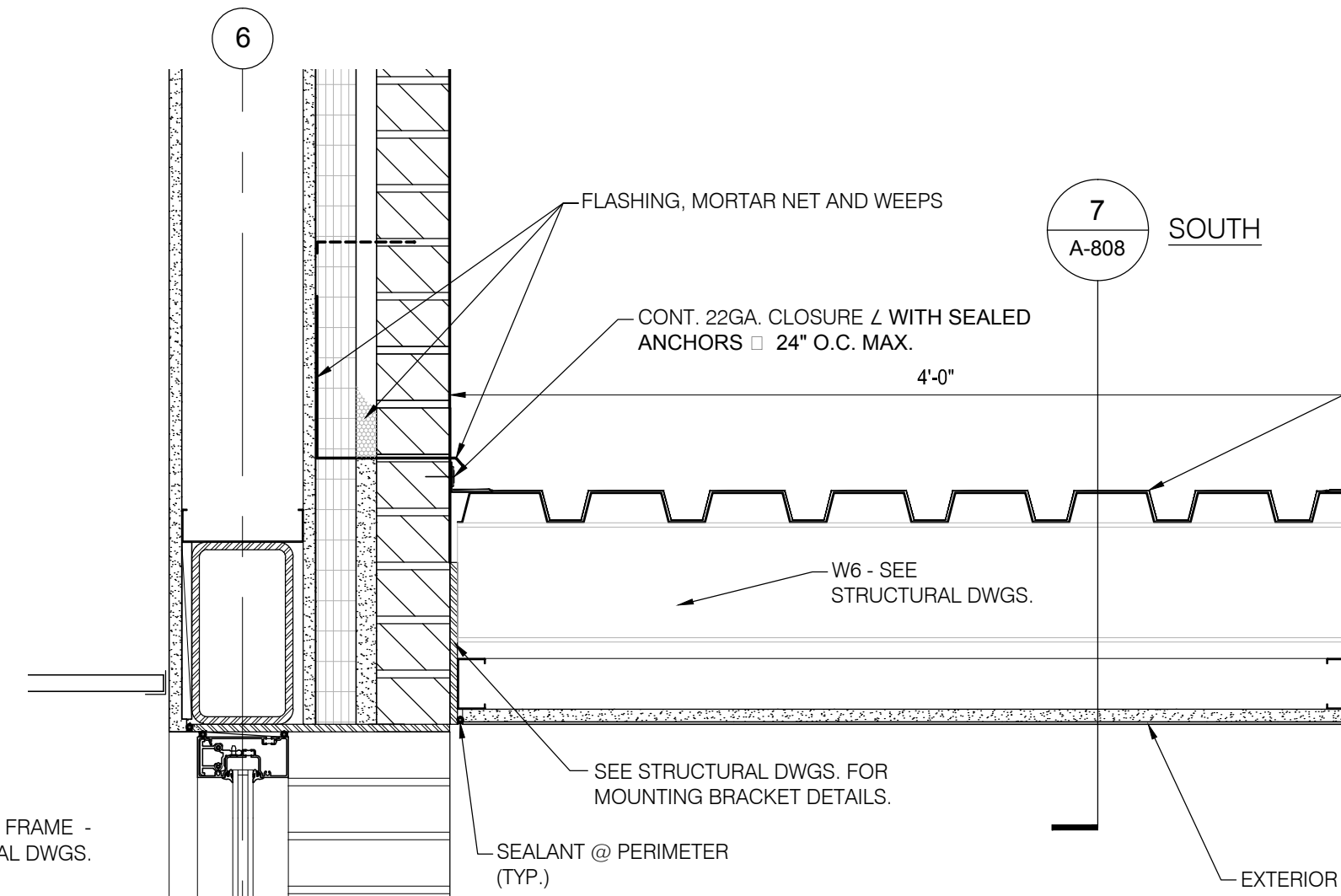
SCALE: 1 1/2" = 1'-0"

7 A-808 EAST



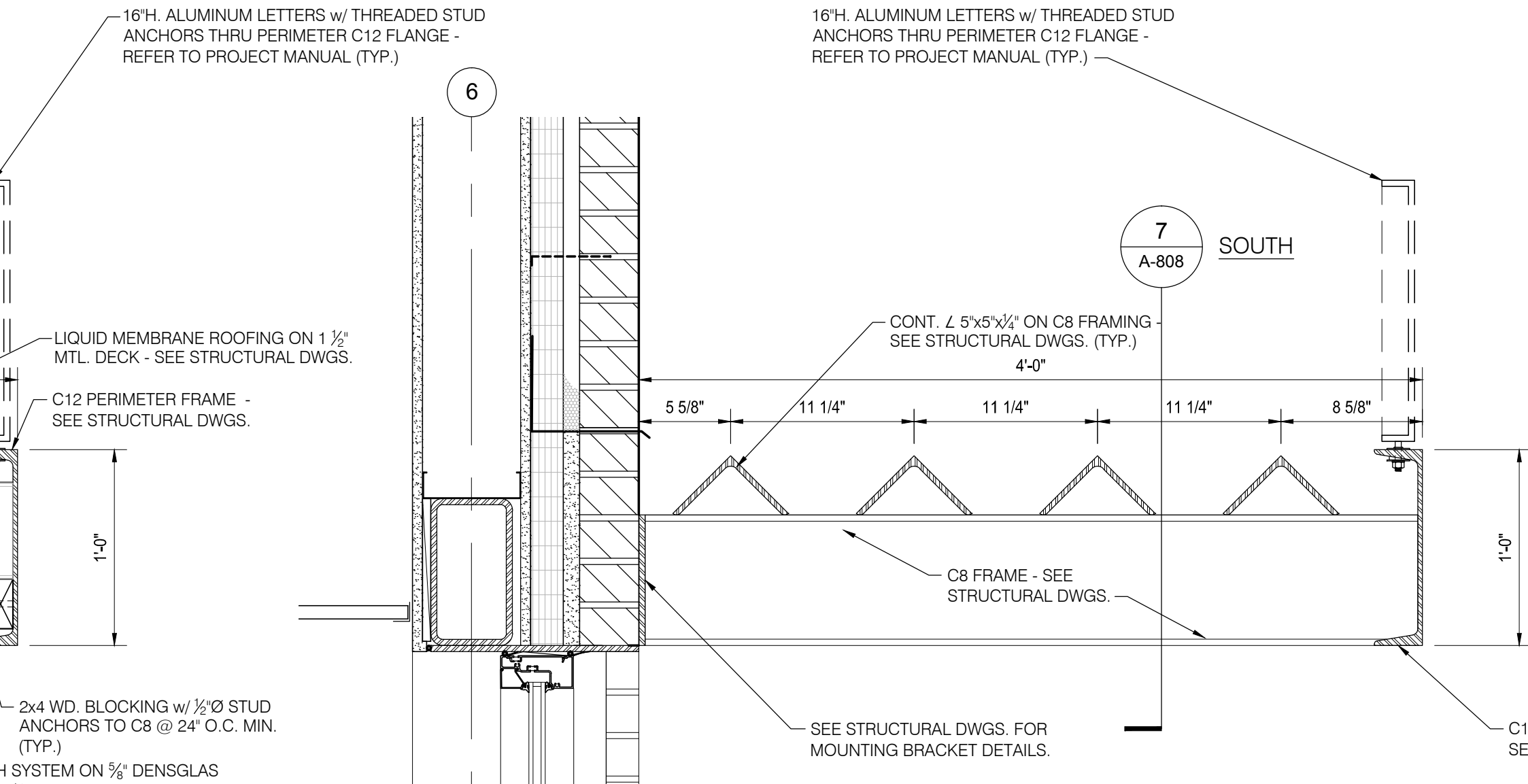
7 A-808 EAST

SCALE: 1 1/2" = 1'-0"



7 A-808 SOUTH

SCALE: 1 1/2" = 1'-0"



7 A-808 SOUTH

SCALE: 1 1/2" = 1'-0"



3 A-804

SCALE: 1 1/2" = 1'-0"

2 A-804

SCALE: 1 1/2" = 1'-0"

1 A-803

SCALE: 1 1/2" = 1'-0"



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BIRMINGHAM, MI 48009

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Drawn: K. GILSON
Checked: S. PETERSON
Approved: S. PETERSON

Sheet Title:
DOOR AND
ROOM FINISH
SCHEDULES

Project Number: 15566

Sheet Number: A-901

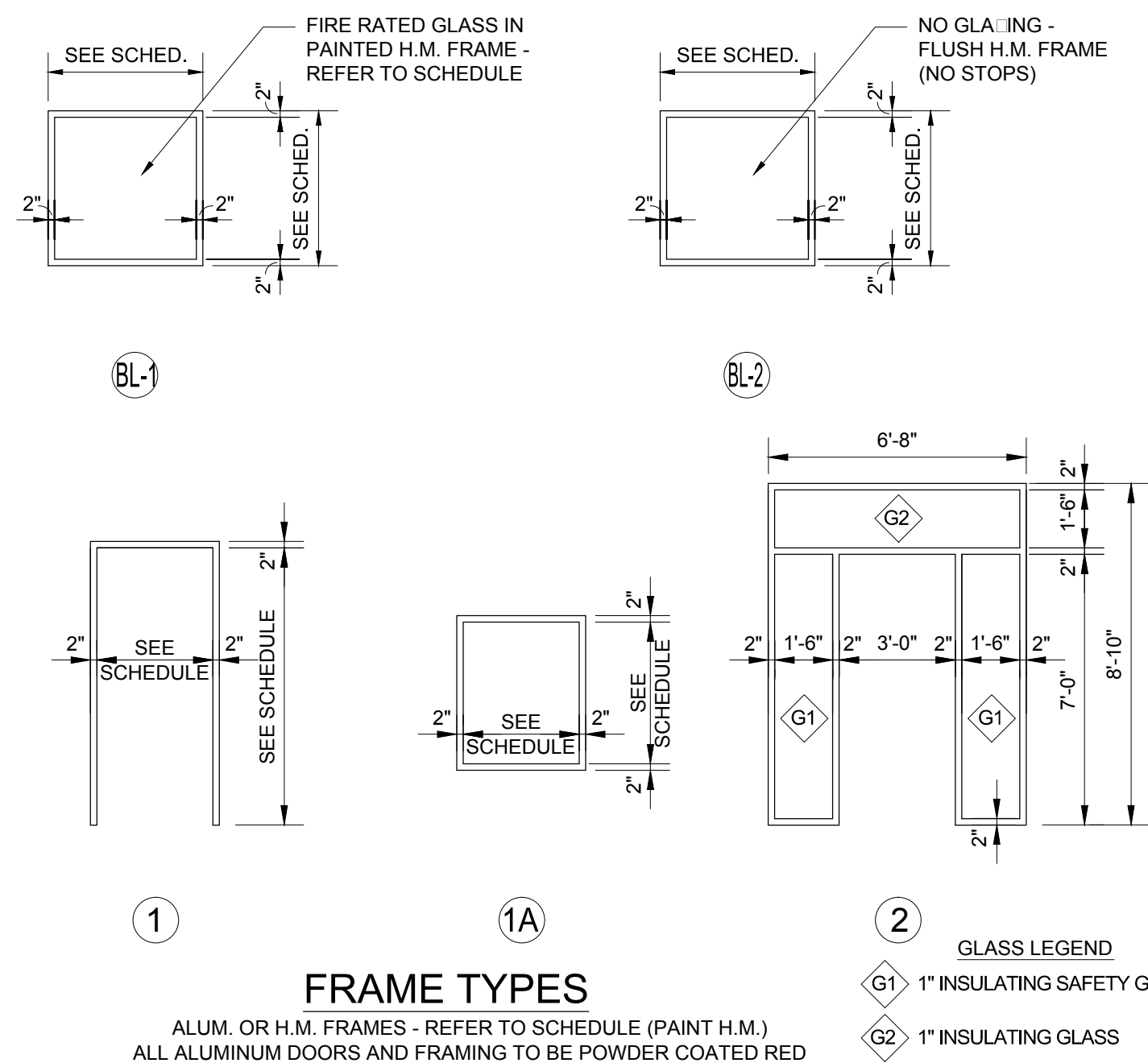
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DOOR SCHEDULE table with columns: DOOR, ROOM NAME, SIZE, DOOR (TYPE, MAT'L, GLASS), FRAME (TYPE, MAT'L, HEAD, JAMB, SILL), FIRE RATING, HARDWARE SET, REMARKS. Includes rows 100A through 201B.

DOOR SCHEDULE LEGEND:

ALUM. ALUMINUM
H.M. HOLLOW METAL
MTL. METAL
M.T. MARBLE THRESHOLD
STL. STEEL
WD. WOOD

BORROWED LITE SCHEDULE table with columns: LITE NO., GLASS, TYPE, MAT, SIZE (W, H), HEAD, JAMB, SILL, FIRE RATING (HRS.), REMARKS. Includes rows BL-1 and BL-2.



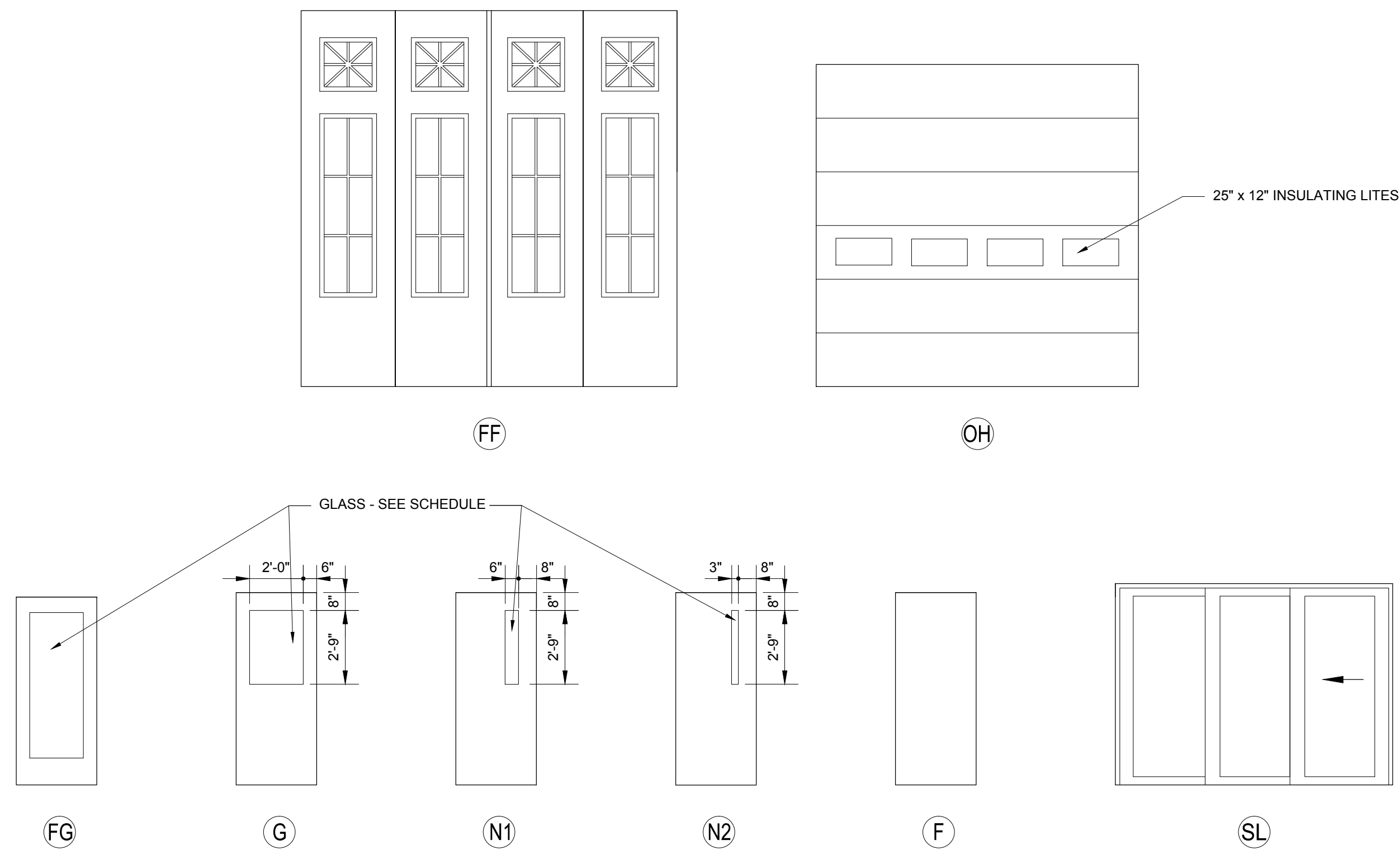
ROOM FINISH SCHEDULE table with columns: ROOM NO, ROOM NAME, FLOOR, BASE, WALLS (N, S, E, W), CEILING, HEIGHT, NOTES. Includes rows 100 through 202.

ROOM FINISH LEGEND

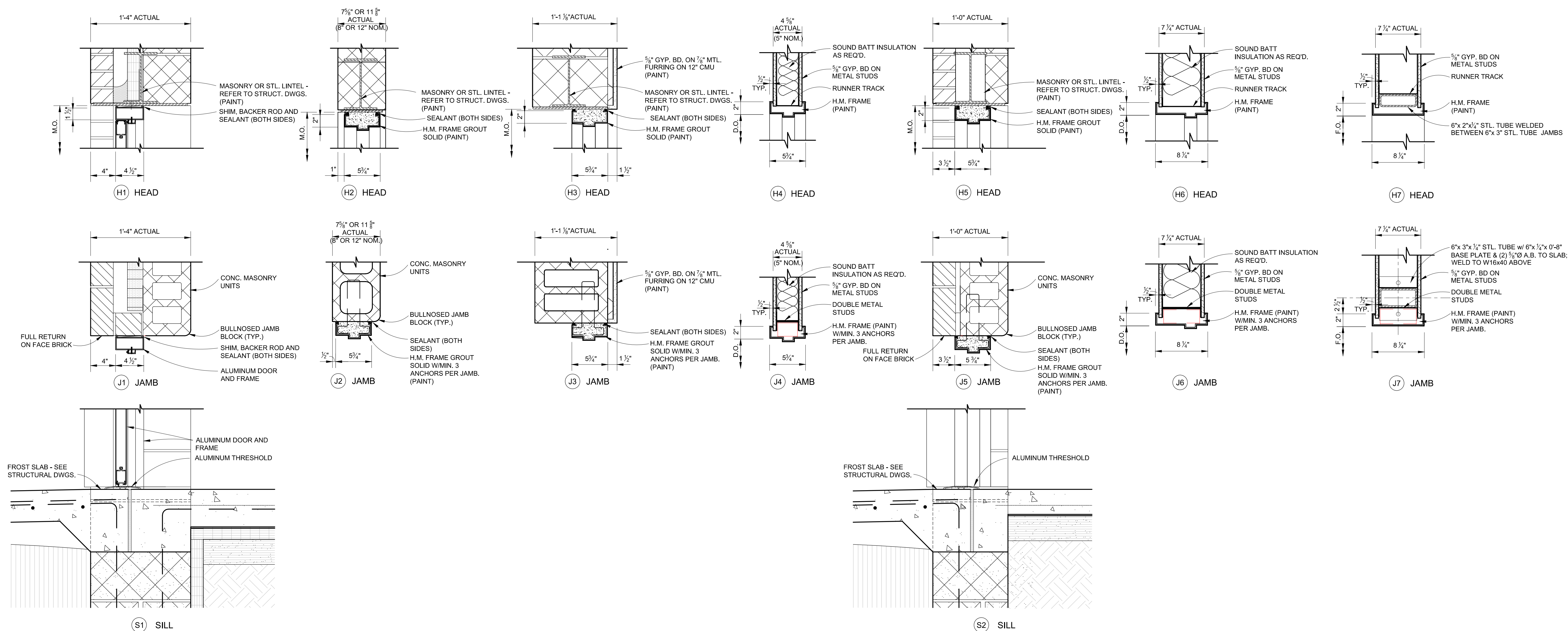
FLOORS
CONC-S CONCRETE - SEALED
CONC-EC CONCRETE - EPOXY FLOOR SYSTEM
CPT-1 CARPET TILE
CFT-1 12\"/>

GENERAL ROOM FINISH NOTES:

DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES SHALL BE AT A MAXIMUM HEIGHT OF 48\"/>
NOTE: PROVIDE TRANSITION STRIP AT ALL CHANGES IN FLOOR FINISH.
ALL TOILET ROOM FLOORS TO BE SLIP RESISTANT PER CABO ANSI A.117
ALL INTERIOR FINISHES TO HAVE A FLAME SPREAD RATING PER BOCA CODE SECTIONS 801.1, 803.2, TABLE 803.4, AND TABLE 805.1
ALL CONCEALED INSULATION TO HAVE A FLAME SPREAD RATING OF 75 (25 IF EXPOSED) OR LESS AND A MAXIMUM SMOKE DEVELOPED RATING OF 450 PER BOCA CODE SECTION 722.2, 722.3 AND 928.2.1
ALL CARPET SHALL COMPLY WITH DOC FF-1 \"PILL TEST\"



DOOR TYPES



DOOR FRAME DETAILS
SCALE: 1 1/2" = 1'-0"



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07/19/16	95 REVIEW
07/29/16	FINAL REVIEW
12/05/16	BIDS

Drawn:	J. WILKIE
Checked:	M. EAGEN
Approved:	S. PETERSON

Sheet Title:
FOUNDATION PLAN

Project Number: 15566

Sheet Number: **S-210**

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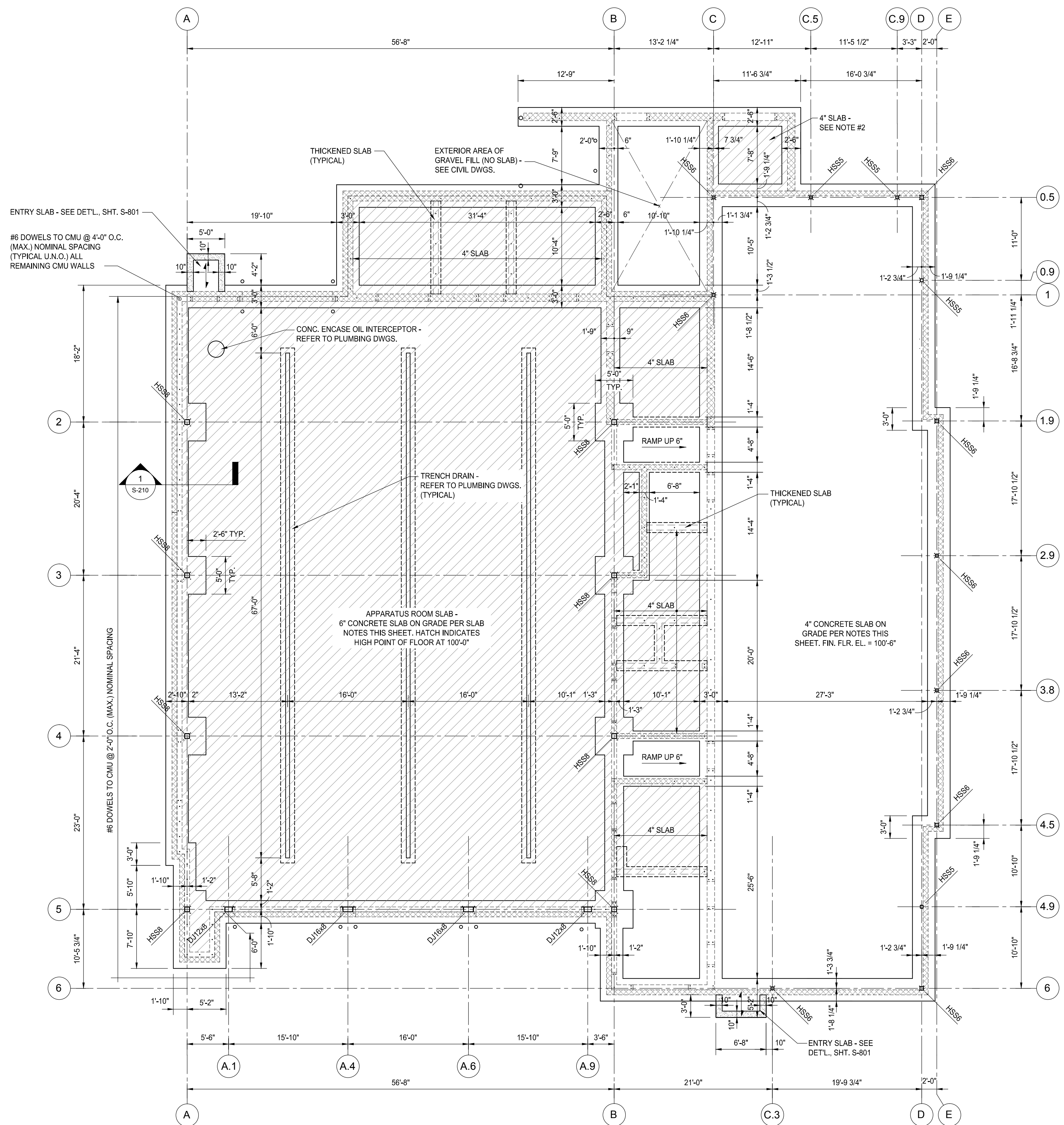
SLAB ON GRADE NOTES:

A. APPARATUS ROOM SLAB:

- TOP OF SLAB ELEVATION AT HIGH POINT = 100'-0", SLOPE SURFACE TO TRENCH DRAINS AS INDICATED ON THE PLUMBING DRAWINGS
- 6" CONCRETE SLAB ON GRADE WITH 3#/CY OF EUCLID TUF-STRAND SF, PLACED ON 8" OF CLEAN SAND SUB-BASE AS FOLLOWS:
 - PLACE AND COMPACT 1st 4" LIFT OF FILL
 - INSTALL 10 MIL STEGOWRAP VAPOR BARRIER per MANUFACTURER'S INSTRUCTIONS
 - PLACE AND COMPACT 2nd LIFT OF SUB-BASE
- WIRE MESH ALTERNATE - 6" SLAB ON GRADE WITH 6 X 6 X 2.9 X 2.9 WELDED WIRE FABRIC REINFORCING MESH, SET AND MAINTAINED AT 4" ABOVE THE PREPARED SLAB SUB-BASE.
- CONSTRUCTION/CONTRACTION JOINT SPACING SHALL NOT EXCEED 15'-0" CENTER TO CENTER AND THE ASPECT RATIO OF SLAB PANELS BETWEEN JOINTS SHALL NOT EXCEED 1.5.
- PROVIDE DIAMOND SHAPED ISOLATION JOINTS AT ALL REQUIRED COLUMN LOCATIONS WITH 1/2" PREMOLDED JOINT FILLER AND SEALANT AS INDICATED IN THE SPECIFICATIONS

B. ALL OTHER FLOOR SLABS

- TOP OF SLAB ELEVATION SHALL BE AS INDICATED
- 4" CONCRETE SLAB ON GRADE WITH 3#/CY OF EUCLID TUF-STRAND SF, PLACED ON 8" OF CLEAN SAND SUB-BASE AS FOLLOWS:
 - PLACE AND COMPACT 1st 4" LIFT OF FILL
 - INSTALL 10 MIL STEGOWRAP VAPOR BARRIER per MANUFACTURER'S INSTRUCTIONS
 - PLACE AND COMPACT 2nd LIFT OF SUB-BASE
- WIRE MESH ALTERNATE - 6" SLAB ON GRADE WITH 6 X 6 X 1.4 X 1.4 WELDED WIRE FABRIC REINFORCING MESH, SET AND MAINTAINED AT 2.5" ABOVE THE PREPARED SLAB SUB-BASE.
- CONSTRUCTION/CONTRACTION JOINT SPACING SHALL NOT EXCEED 12'-0" CENTER TO CENTER AND THE ASPECT RATIO OF SLAB PANELS BETWEEN JOINTS SHALL NOT EXCEED 1.5.



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



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FIRE STATION No. 2**

1600 WEST MAPLE
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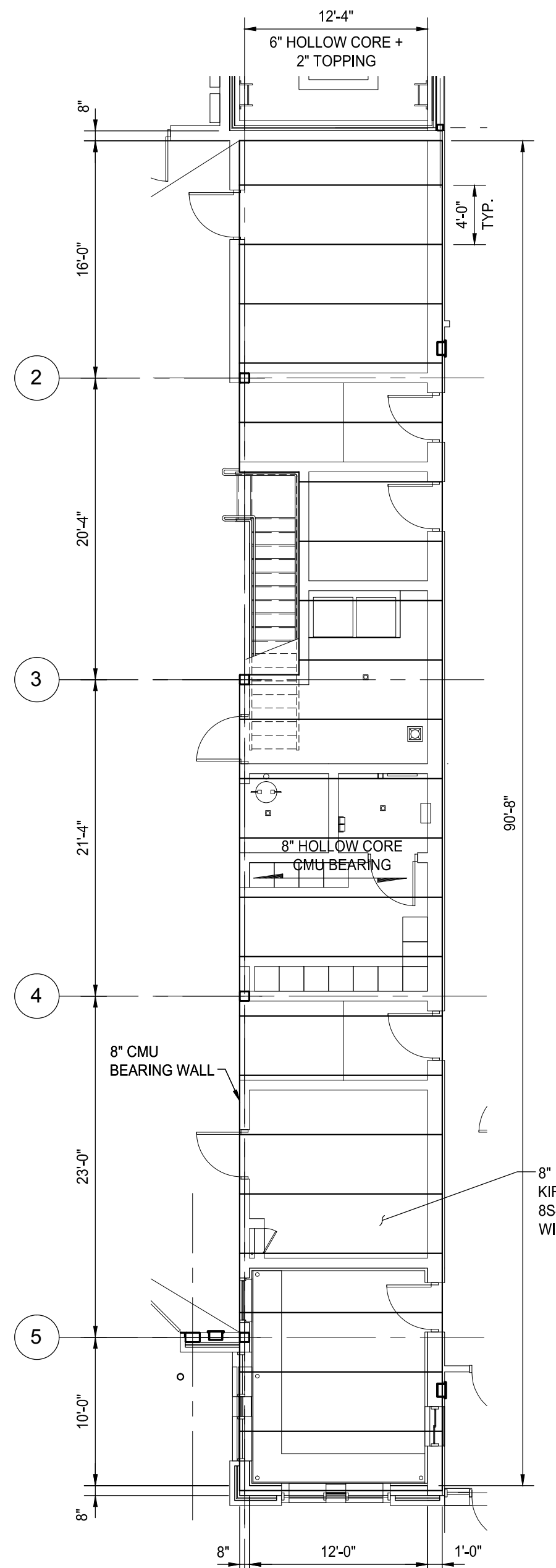
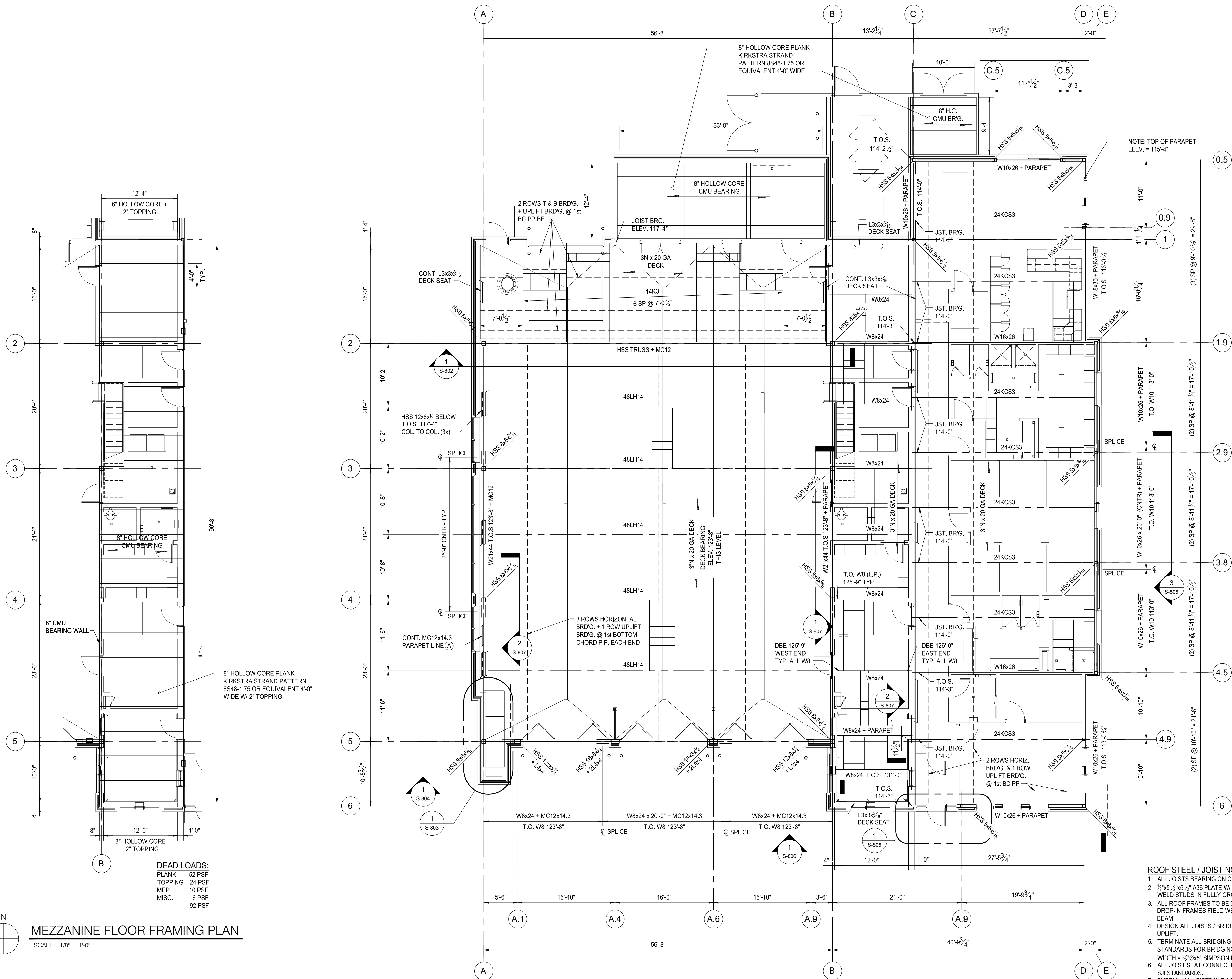
Drawn: J. WILKIE
Checked: M. EAGEN
Approved: S. PETERSON

Sheet Title:
**ROOF
FRAMING PLAN**

Project Number: 15566

Sheet Number: **S-211**

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DEAD LOADS:
PLANK 52 PSF
TOPPING 24 PSF
MEP 10 PSF
MISC. 6 PSF
92 PSF

MEZZANINE FLOOR FRAMING PLAN
SCALE: 1/8" = 1'-0"

ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"

- ROOF STEEL / JOIST NOTES:**
1. ALL JOISTS BEARING ON CMU SHALL HAVE A
 2. 1/2"x5 1/2"x5 1/2" A36 PLATE W/ (2) 3/8"x4" HEADED WELD STUDS IN FULLY GROUTED CMU.
 3. ALL ROOF FRAMES TO BE SHOP WELDED L3x3x3/16 DROP-IN FRAMES FIELD WELDED TO JOIST / ROOF BEAM.
 4. DESIGN ALL JOISTS / BRIDGING FOR 15 PSF NET UPLIFT.
 5. TERMINATE ALL BRIDGING TO STEEL / CMU PER SJI STANDARDS FOR BRIDGING. CLIPS AT CMU ANCHOR WIDTH + 1/2"x2"x5" SIMPSON HD AT GROUTED CELL.
 6. ALL JOIST SEAT CONNECTIONS SHALL CONFORM TO SJI STANDARDS.
 7. SUPPLY ALL JOISTS WITH SJI STANDARD CAMBER.



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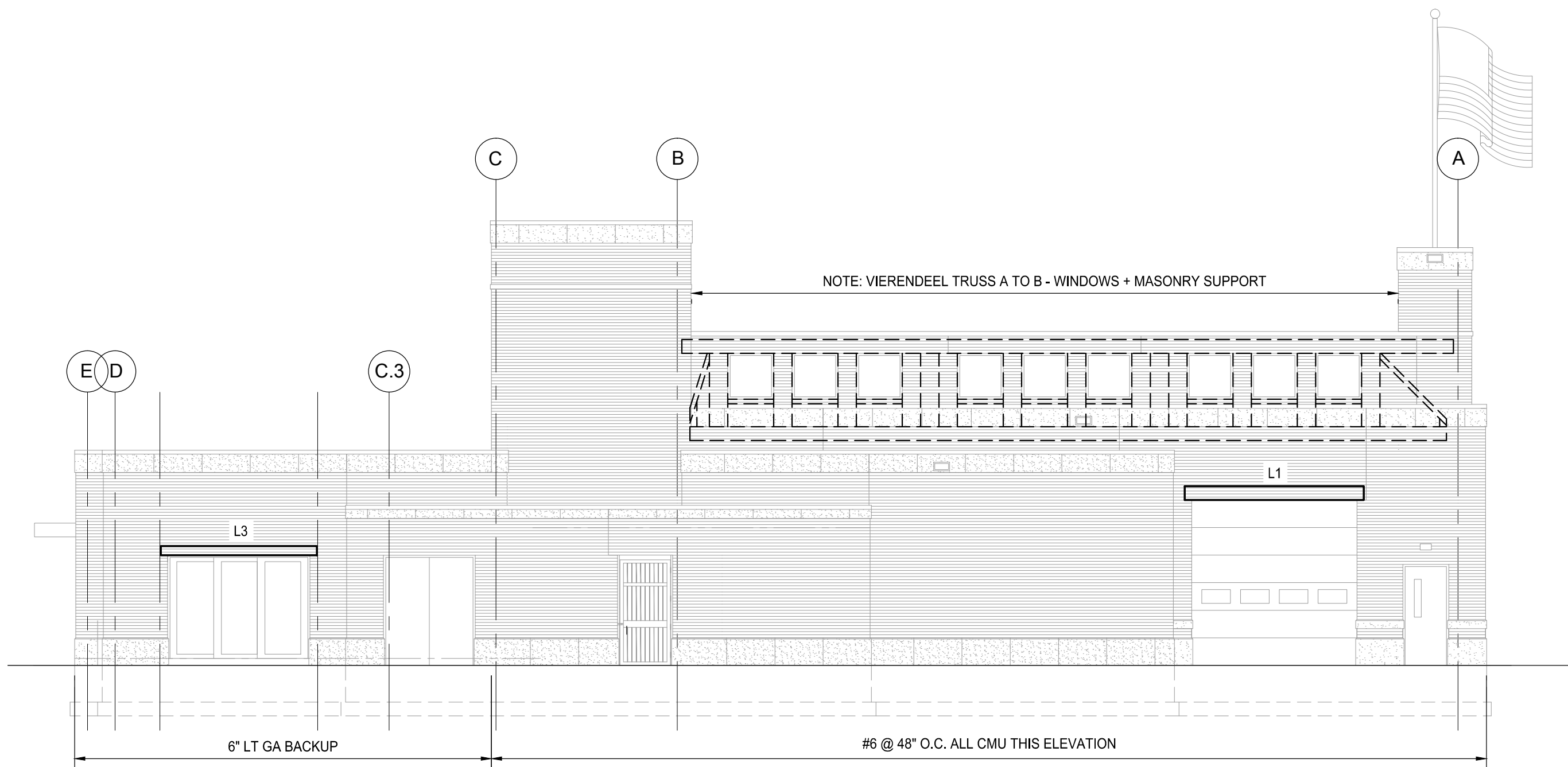
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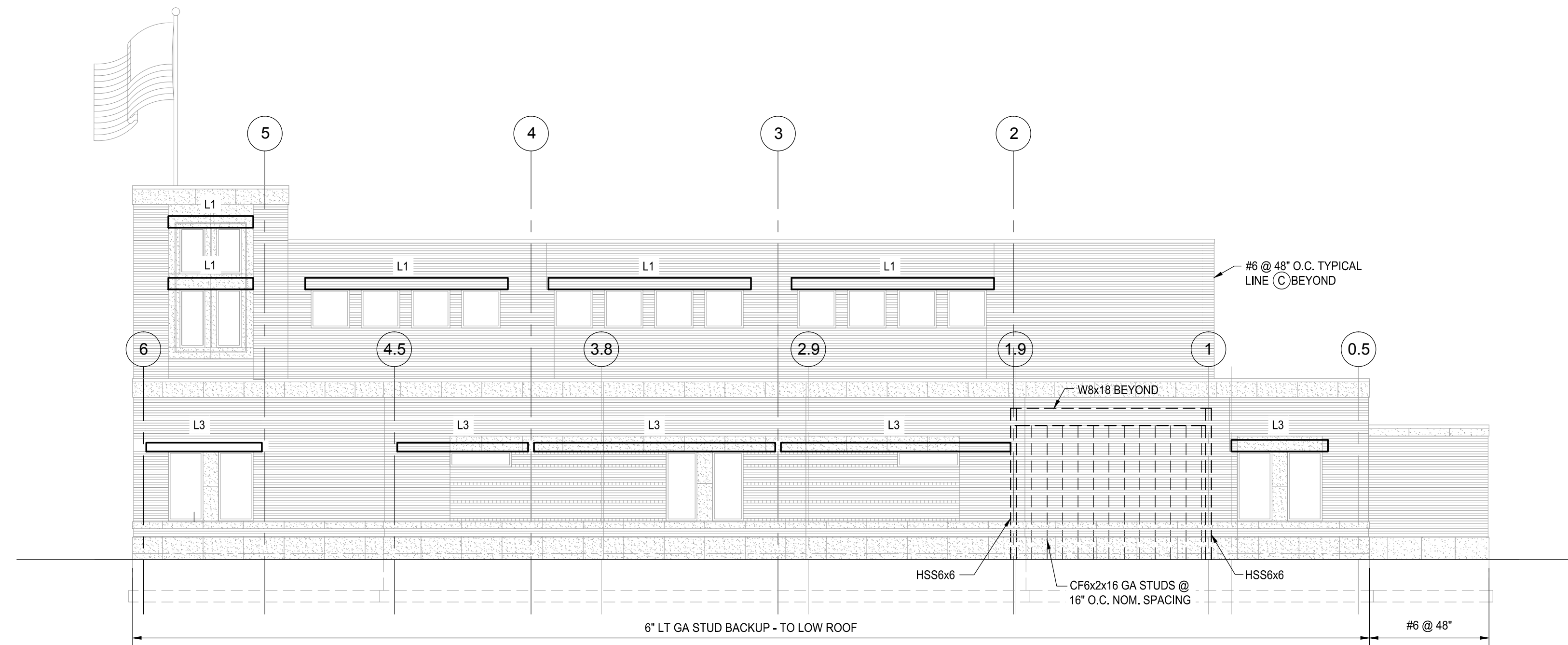
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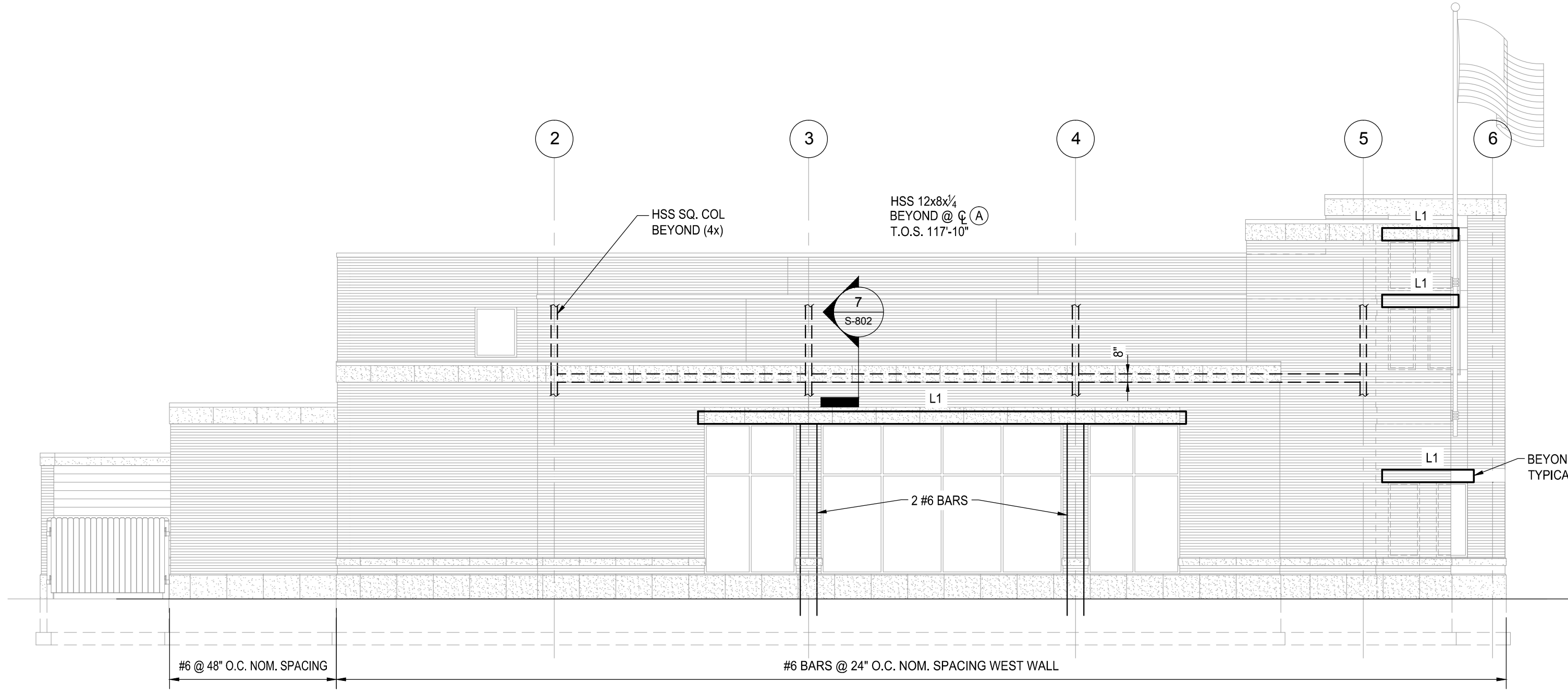
Key Plan: No Scale



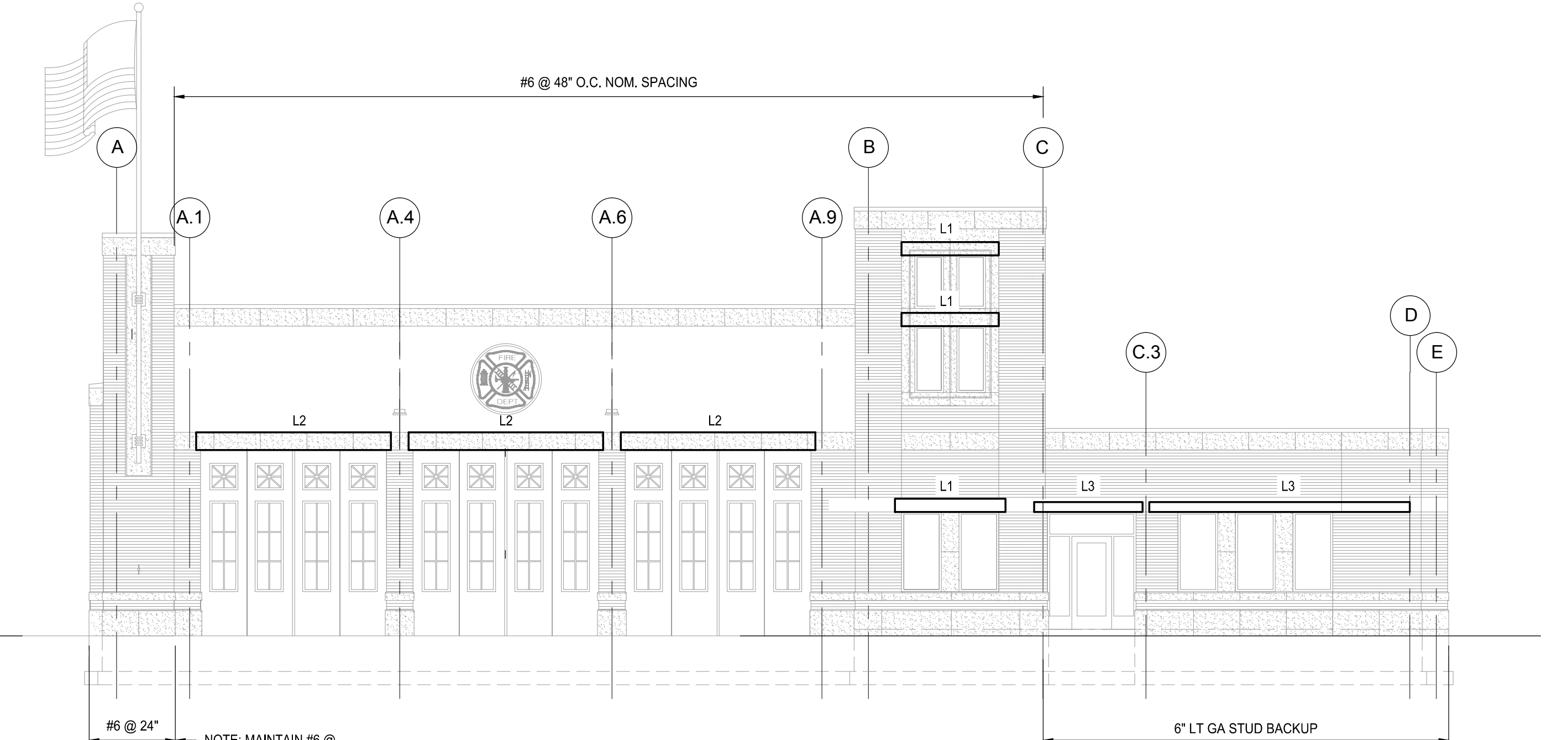
NORTH ELEVATION
SCALE: 1/8" = 1'-0"



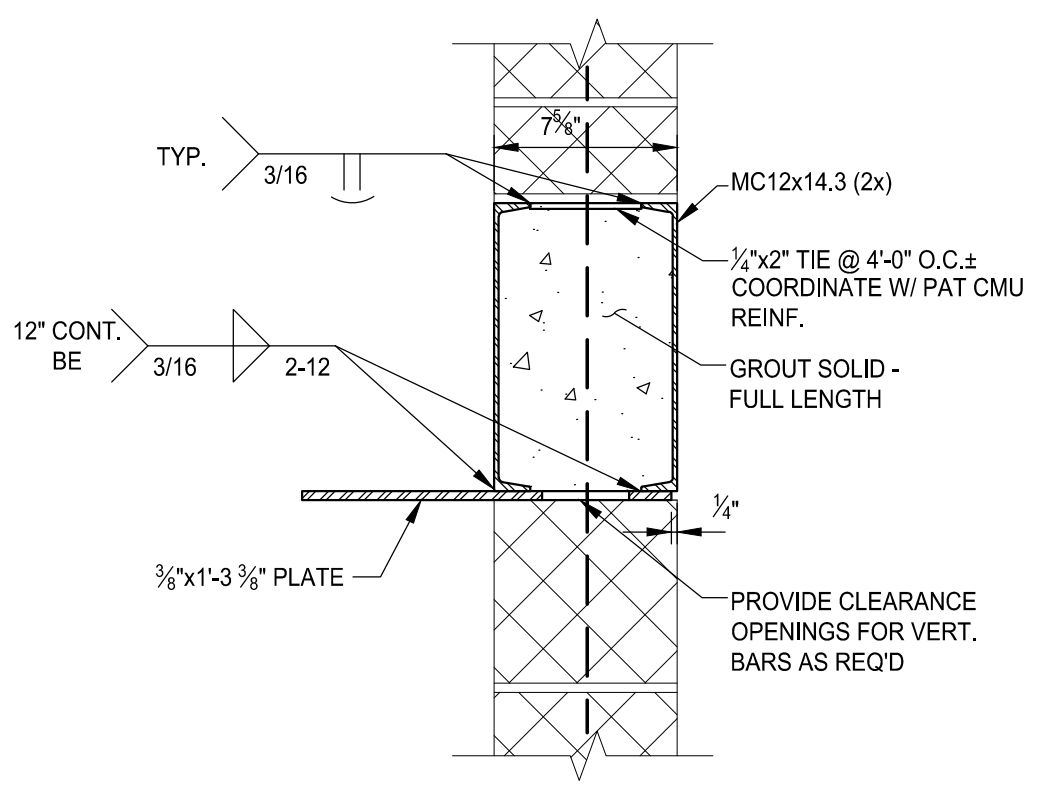
EAST ELEVATION
SCALE: 1/8" = 1'-0"



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



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



LINTEL TYPE L1
SCALE: 1 1/2" = 1'-0"

LINTEL SCHEDULE		
MARK	TYPE	REMARKS
L-1	II 2 - MC12x14.3 PL.	
L-2	HSS 16x8 PL.	
L-3	HSS 9x5 PL.	
L-4	W8x24 3/4" MAS. PL. FOR ALL INTERIOR LINTELS	COORDINATE W/ ARCHITECTURAL

- LINTEL NOTES:**
- PROVIDE 3/8" NELSON DEFORMED BAR ANCHORS ON L4 LINTELS @ SPACING TO MATCH WALL REINFORCING STEEL.
 - L4 LINTELS SHALL BEAR ON 1/2"x7x8" A36 PLATES W/ 2 - 1/2"x4" HEADED WELD STUDS.

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Date: 07/29/16
12/05/16

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Drawn: J. WILKIE
Checked: M. EAGEN
Approved: S. PETERSON

Sheet Title:
**LINTEL
ELEVATIONS &
SCHEDULE**

Project Number: 15566

Sheet Number: **S-301**

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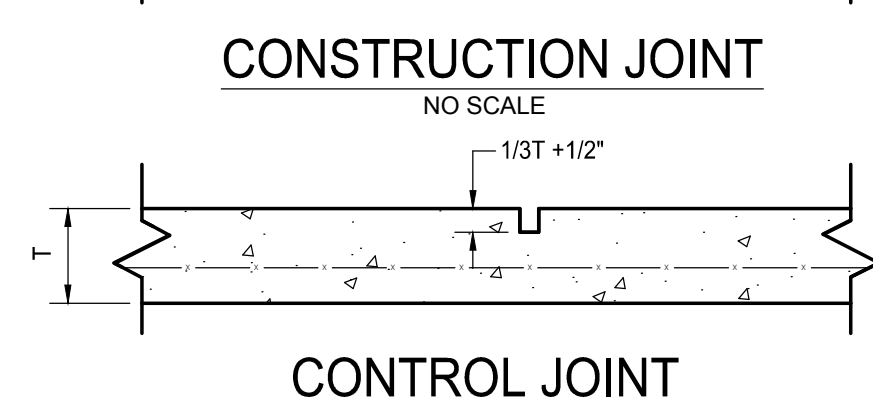
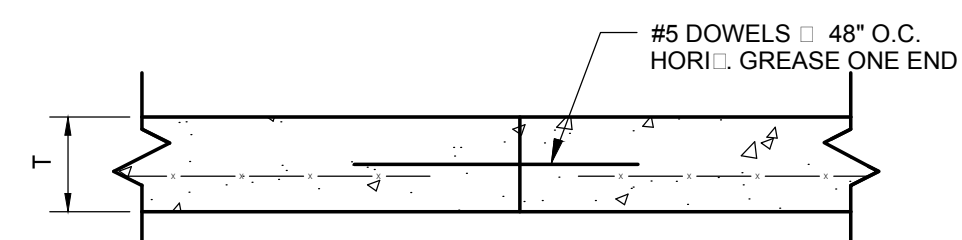
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**FOUNDATION
DETAILS**

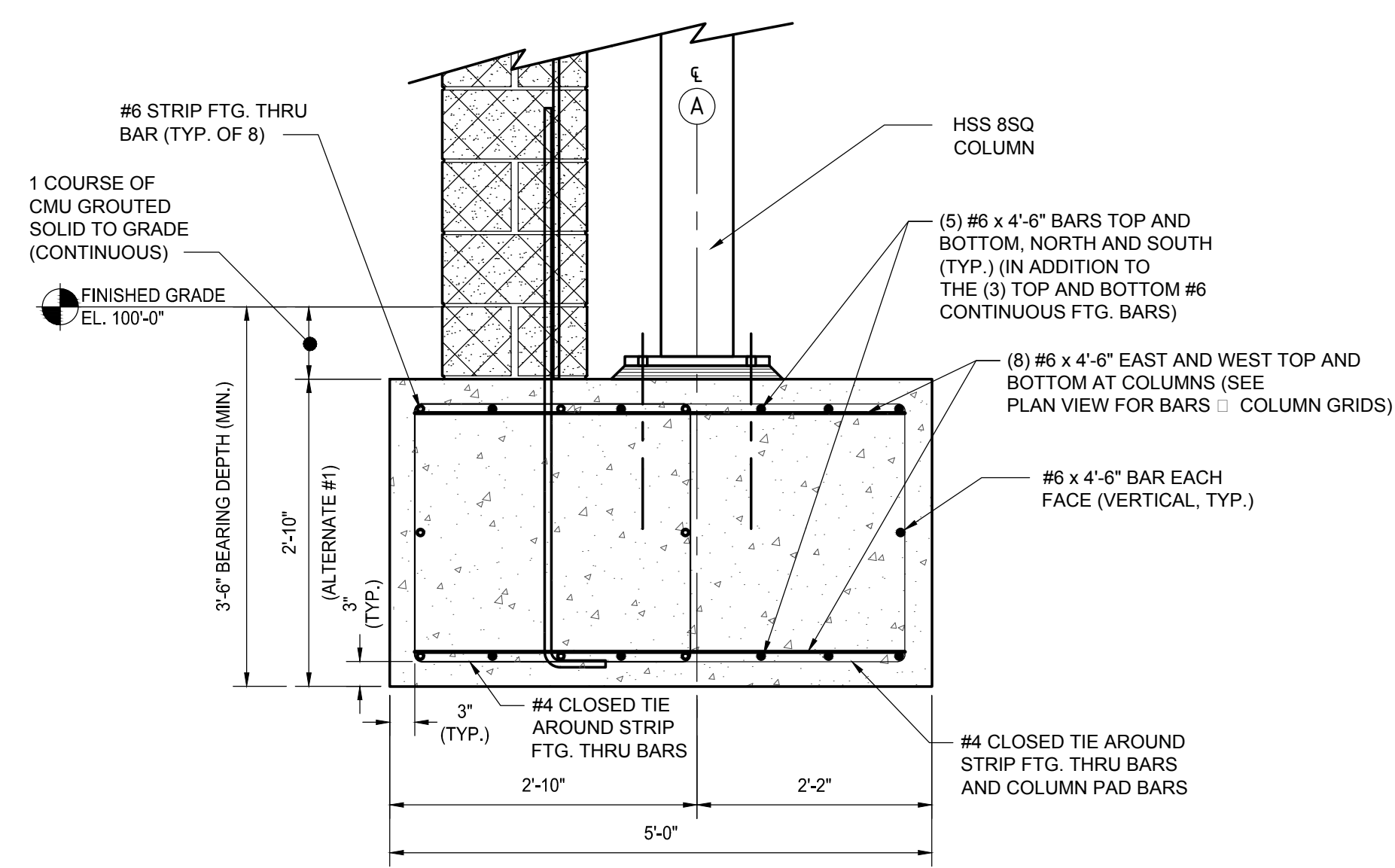
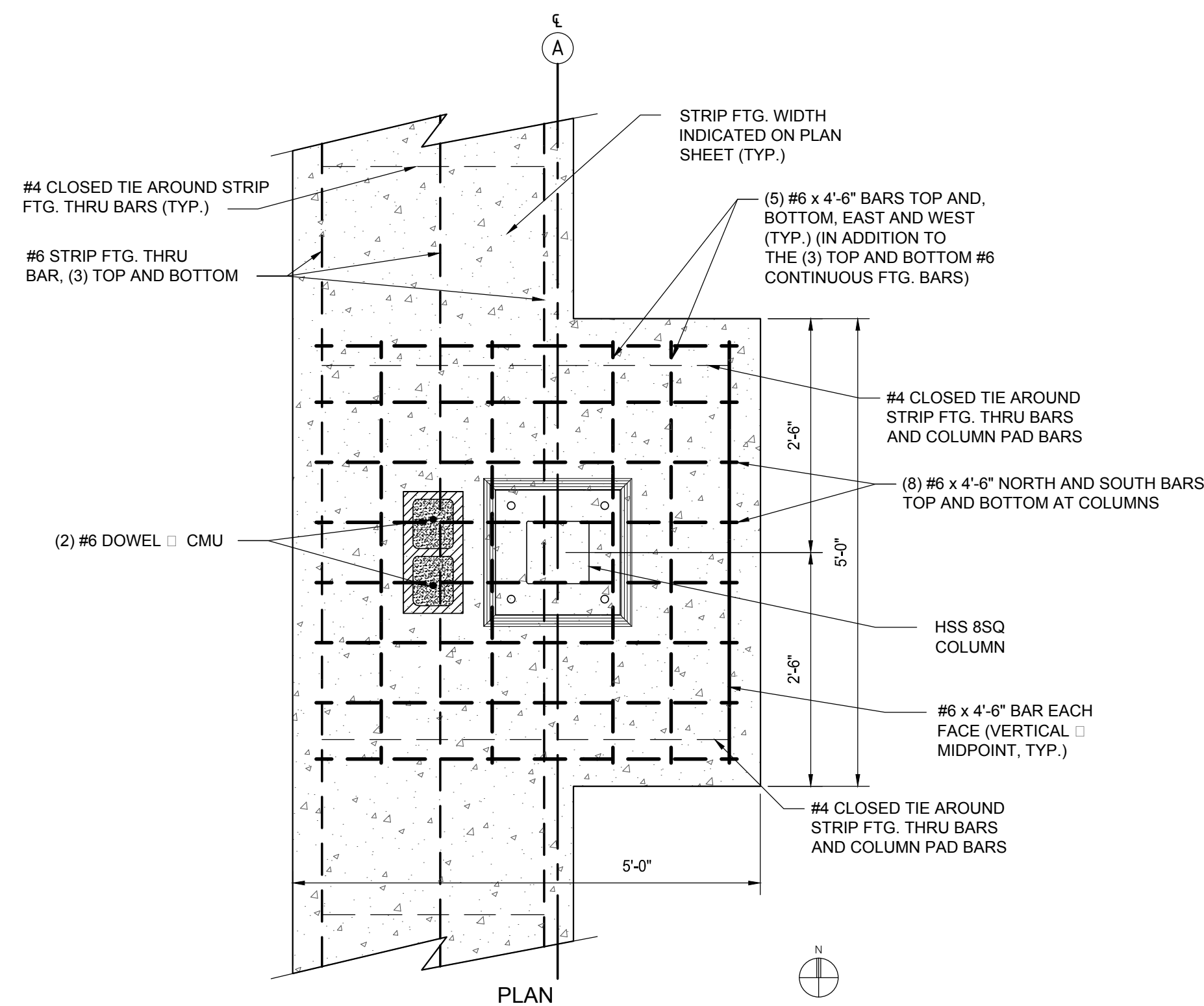
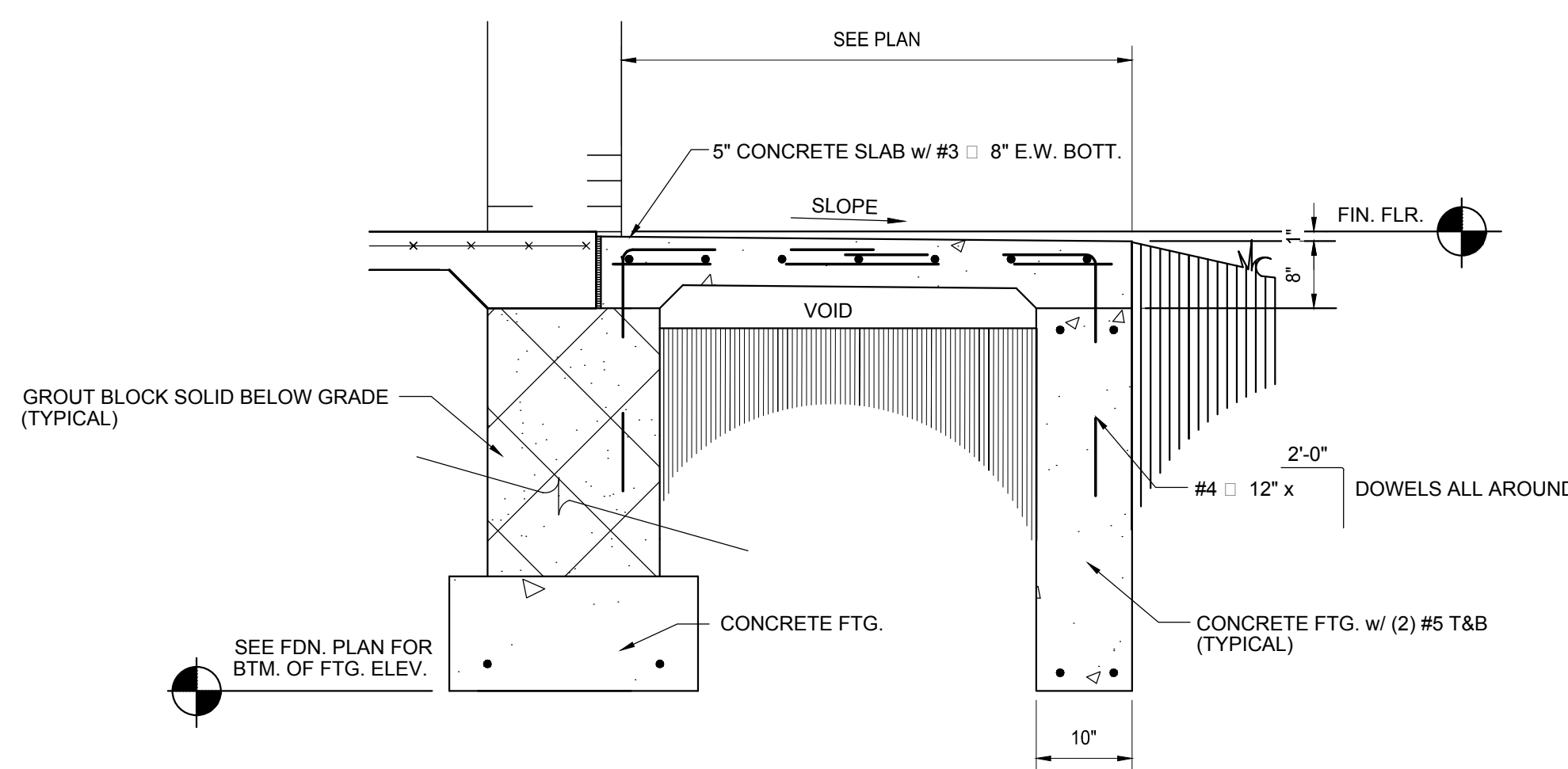
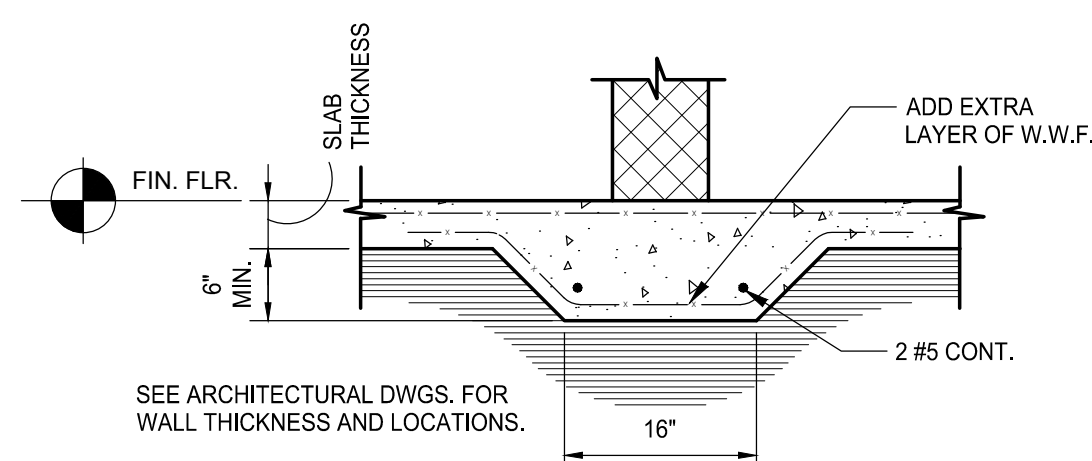
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Sheet Number: **S-801**

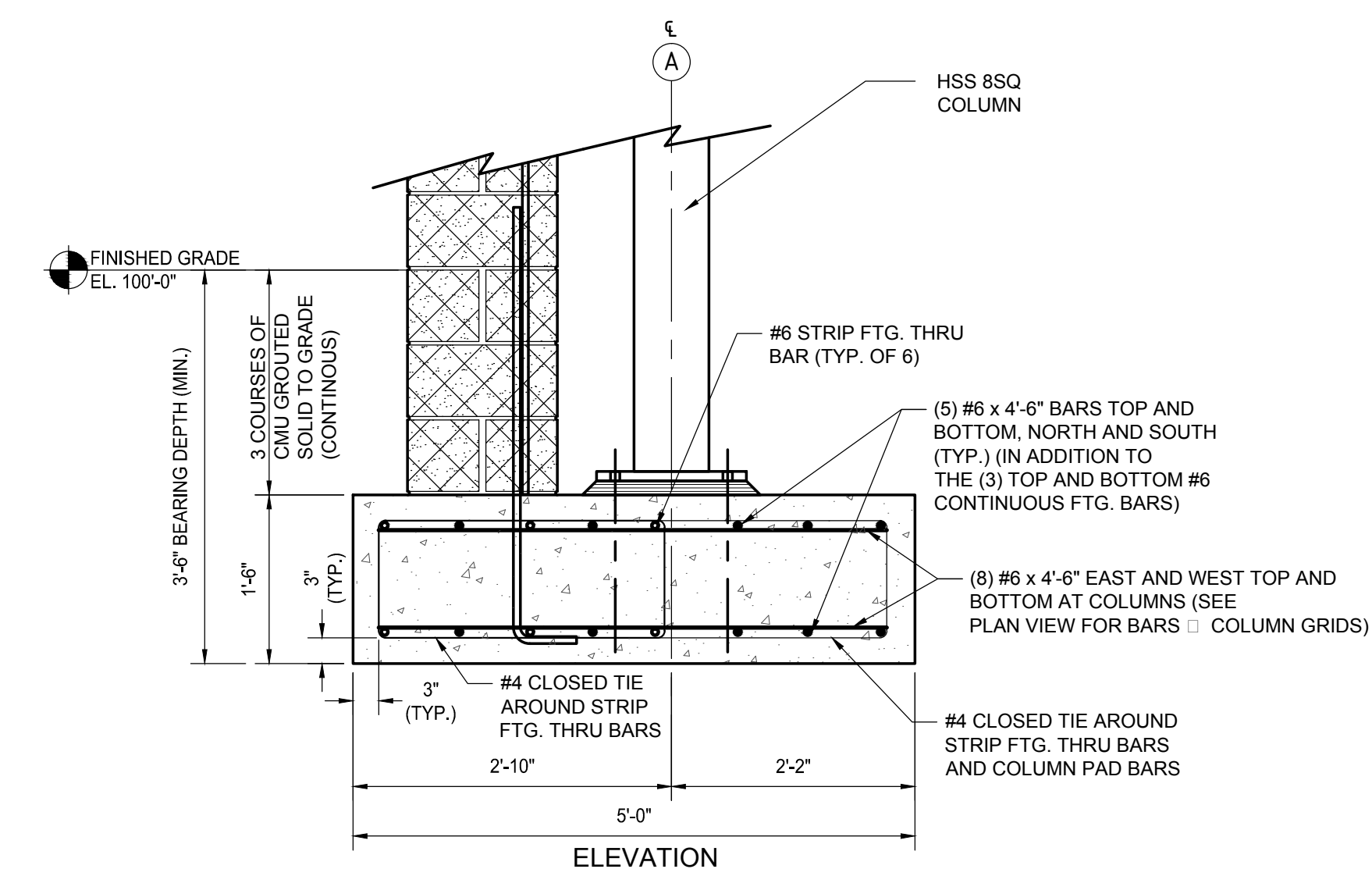
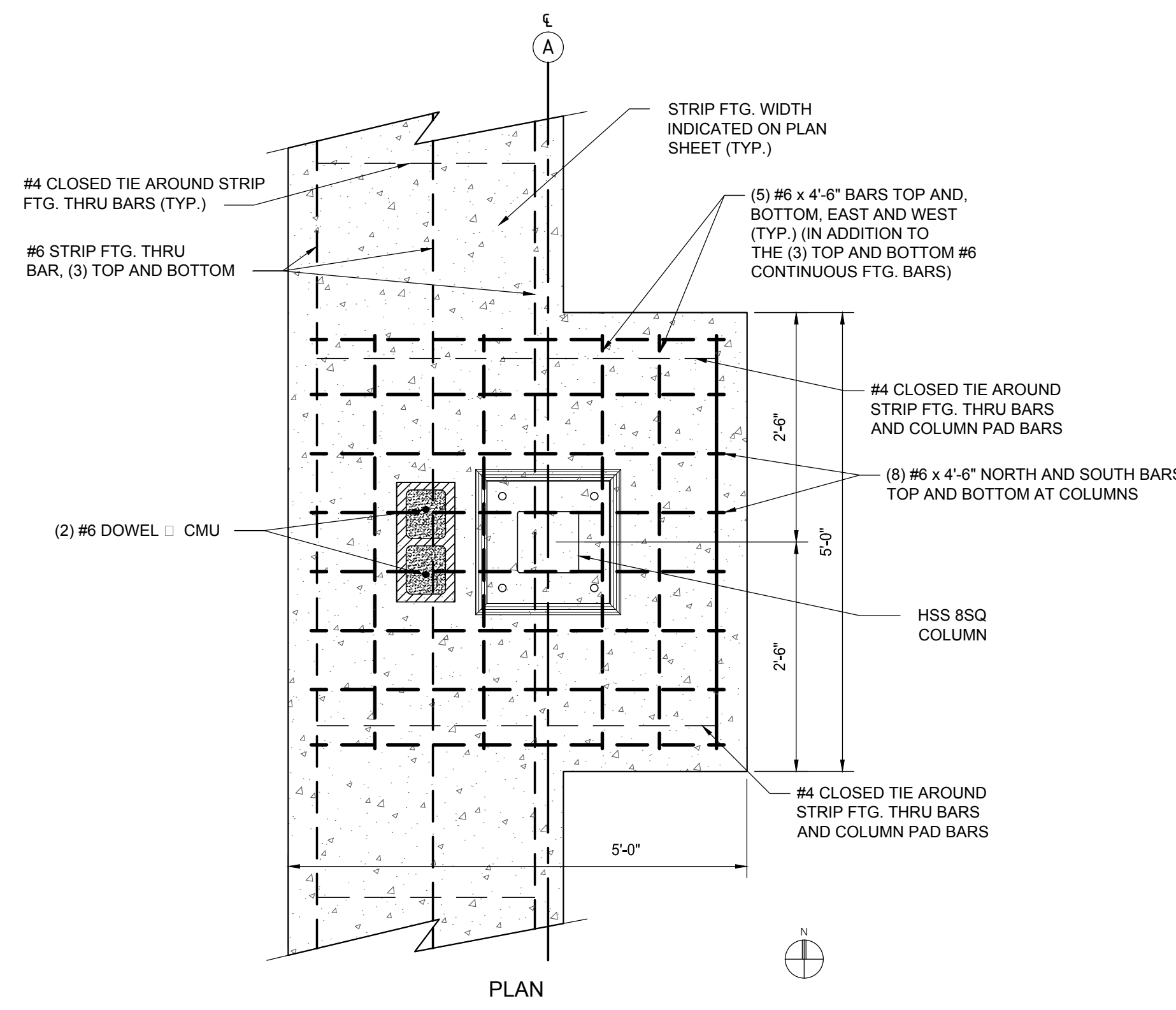
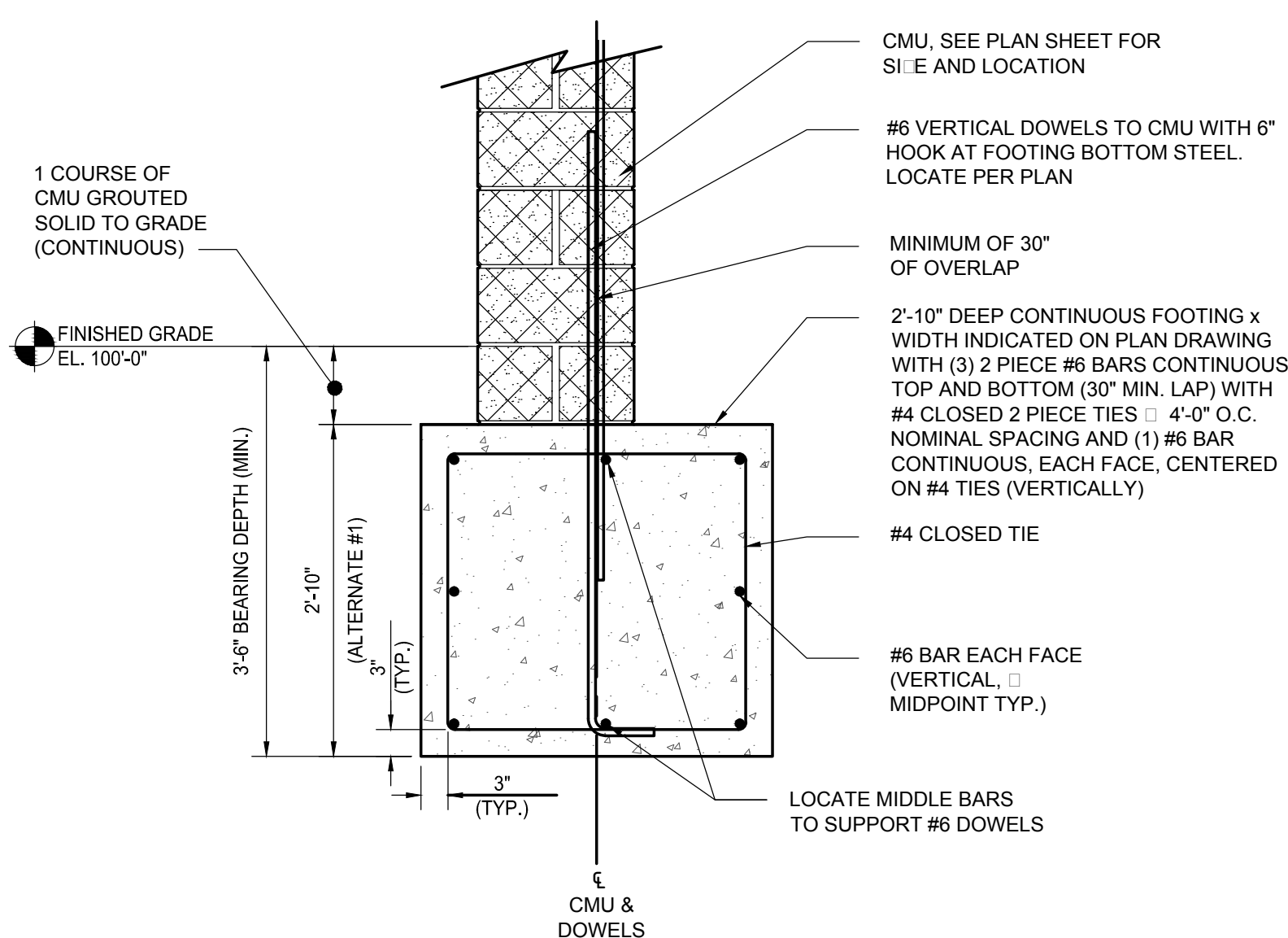
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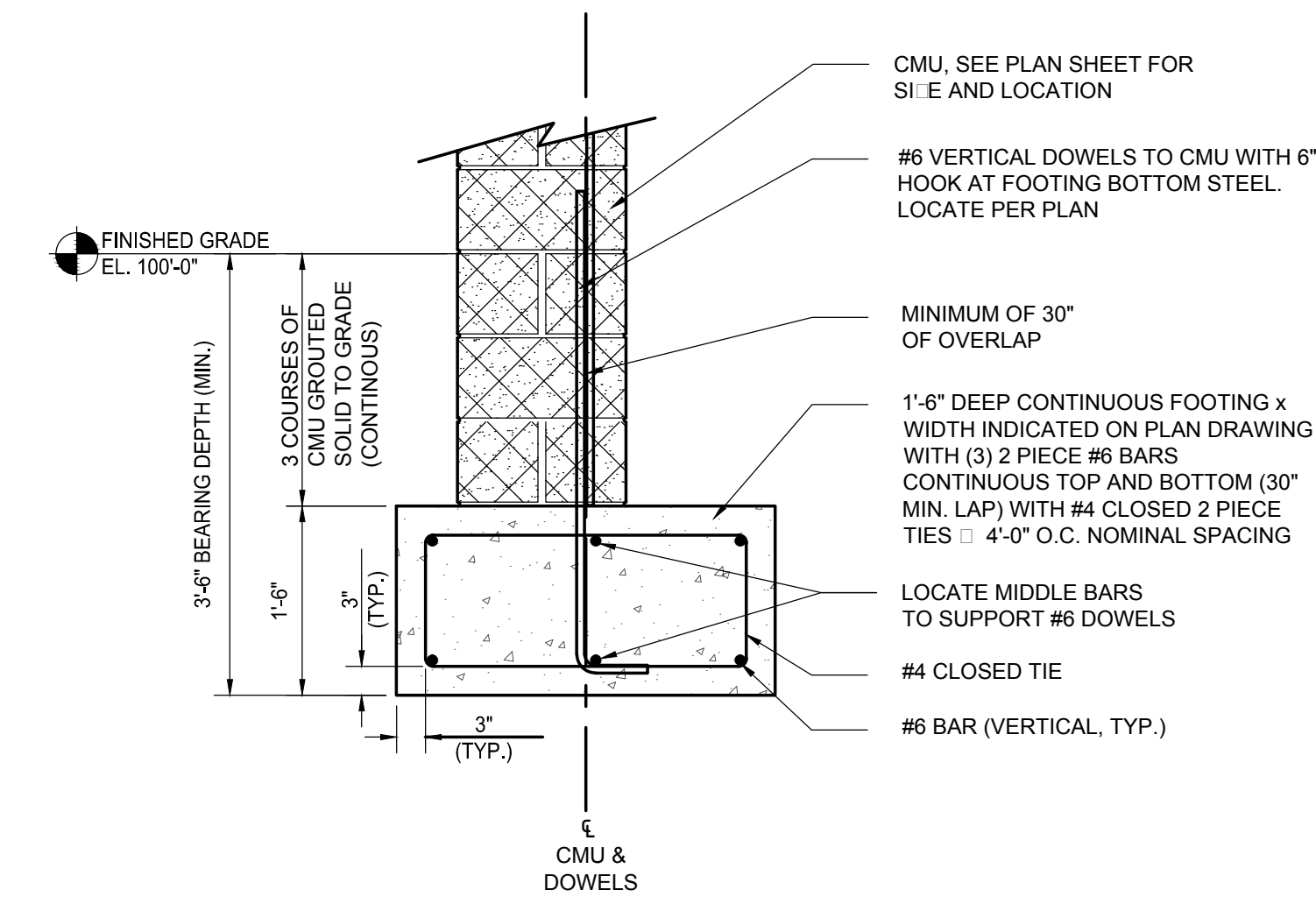
NOTE:
SAW CUT SHALL BE MADE AS SOON AS THE SURFACE
WILL ACCEPT THE SAW CUTTING OPERATION.



COLUMN PAD @ A2, A3, A4, A5 (ALTERNATE #1)
SCALE: 3/4" = 1'-0"



COLUMN PAD @ A2, A3, A4, A5 (BASE BID)
SCALE: 3/4" = 1'-0"



TYPICAL FOOTING AND REINFORCED MASONRY FOUNDATION DETAIL (BASE BID)
SCALE: 3/4" = 1'-0"



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Corporate Headquarters
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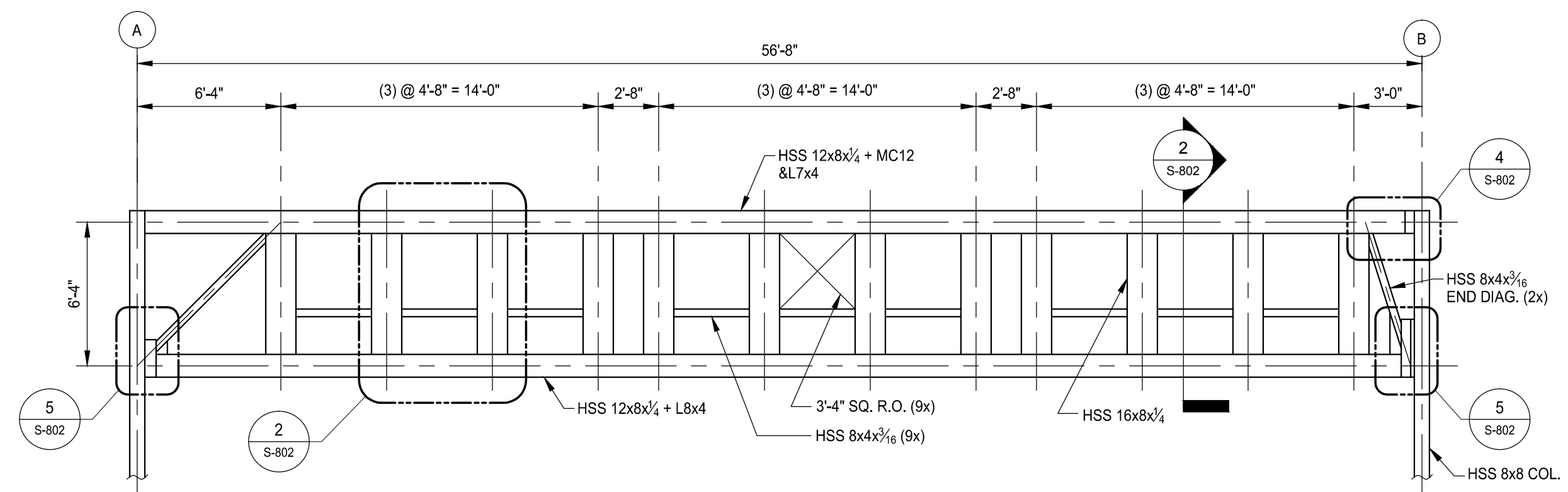
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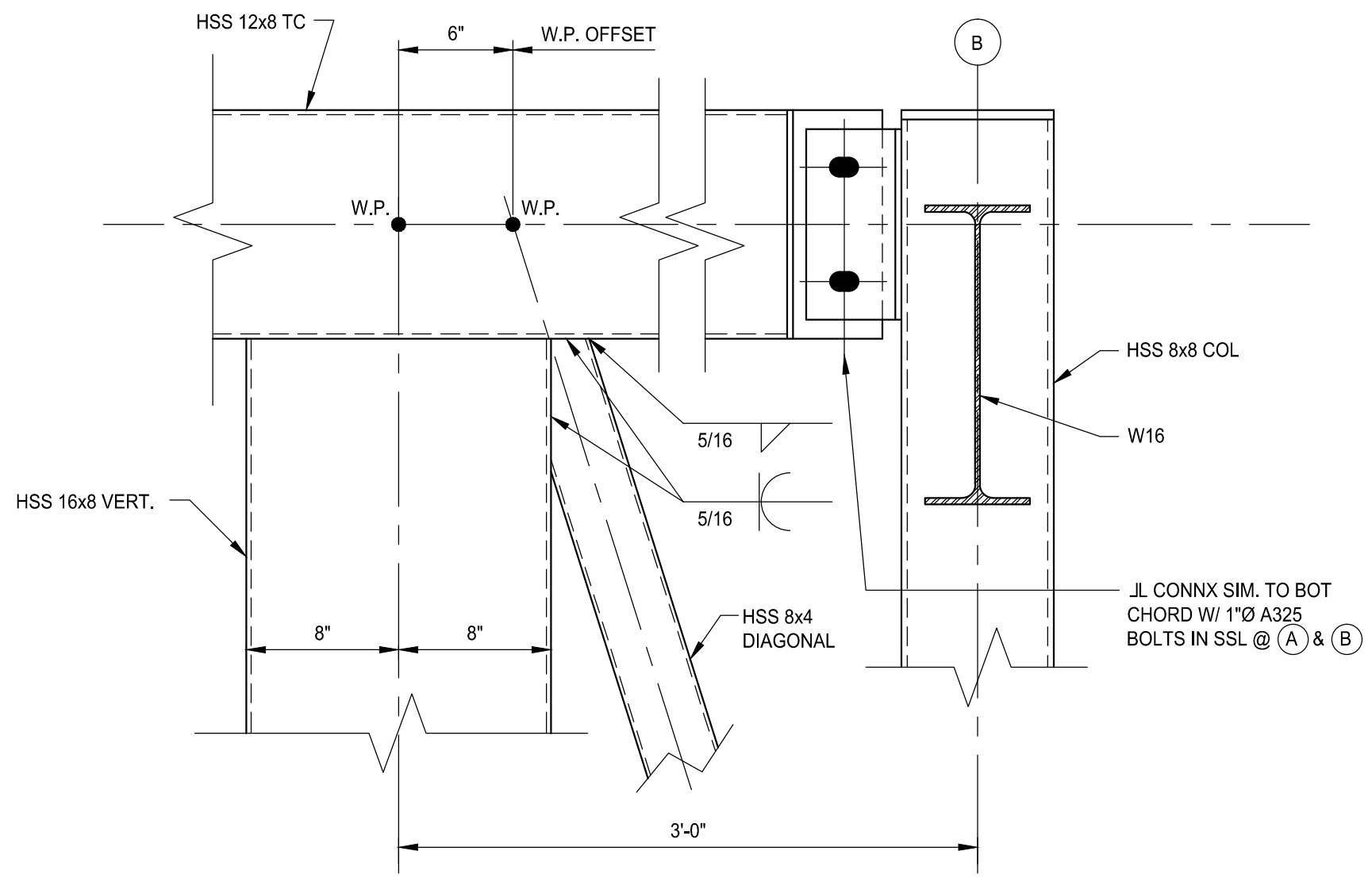
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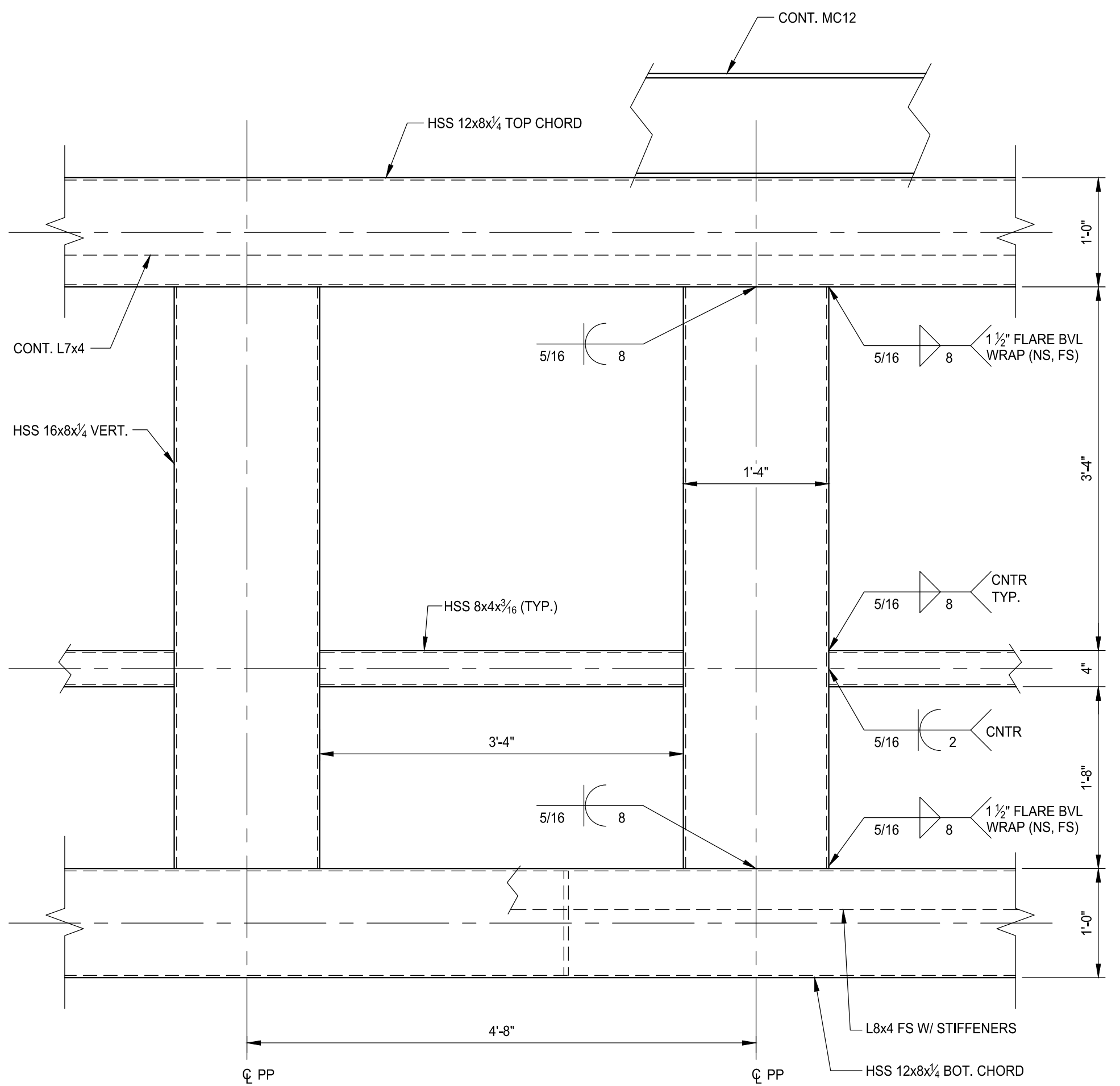
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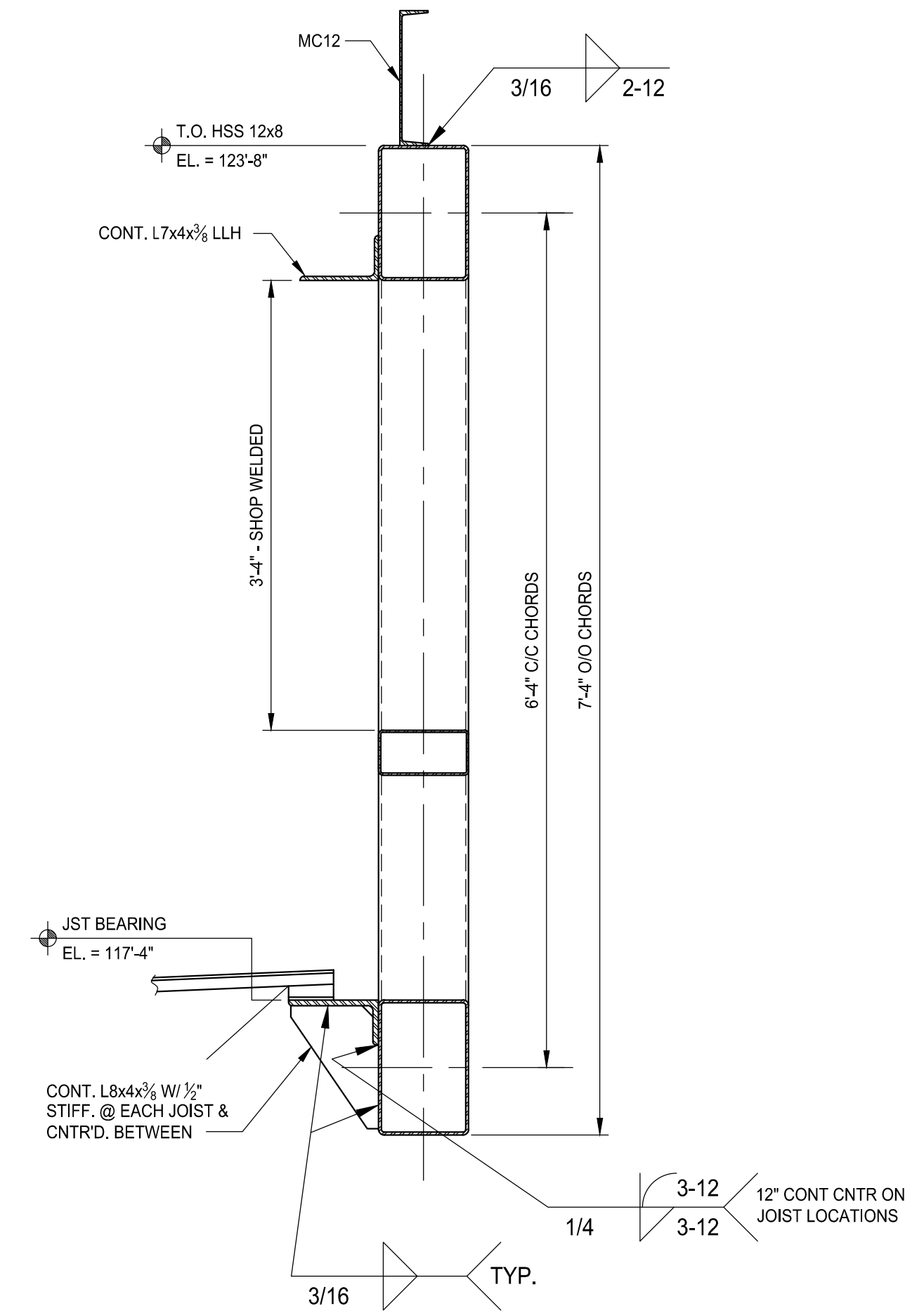
1 GRID 2 TRUSS ELEVATION - LOOKING NORTH
SCALE: 3/16" = 1'-0"



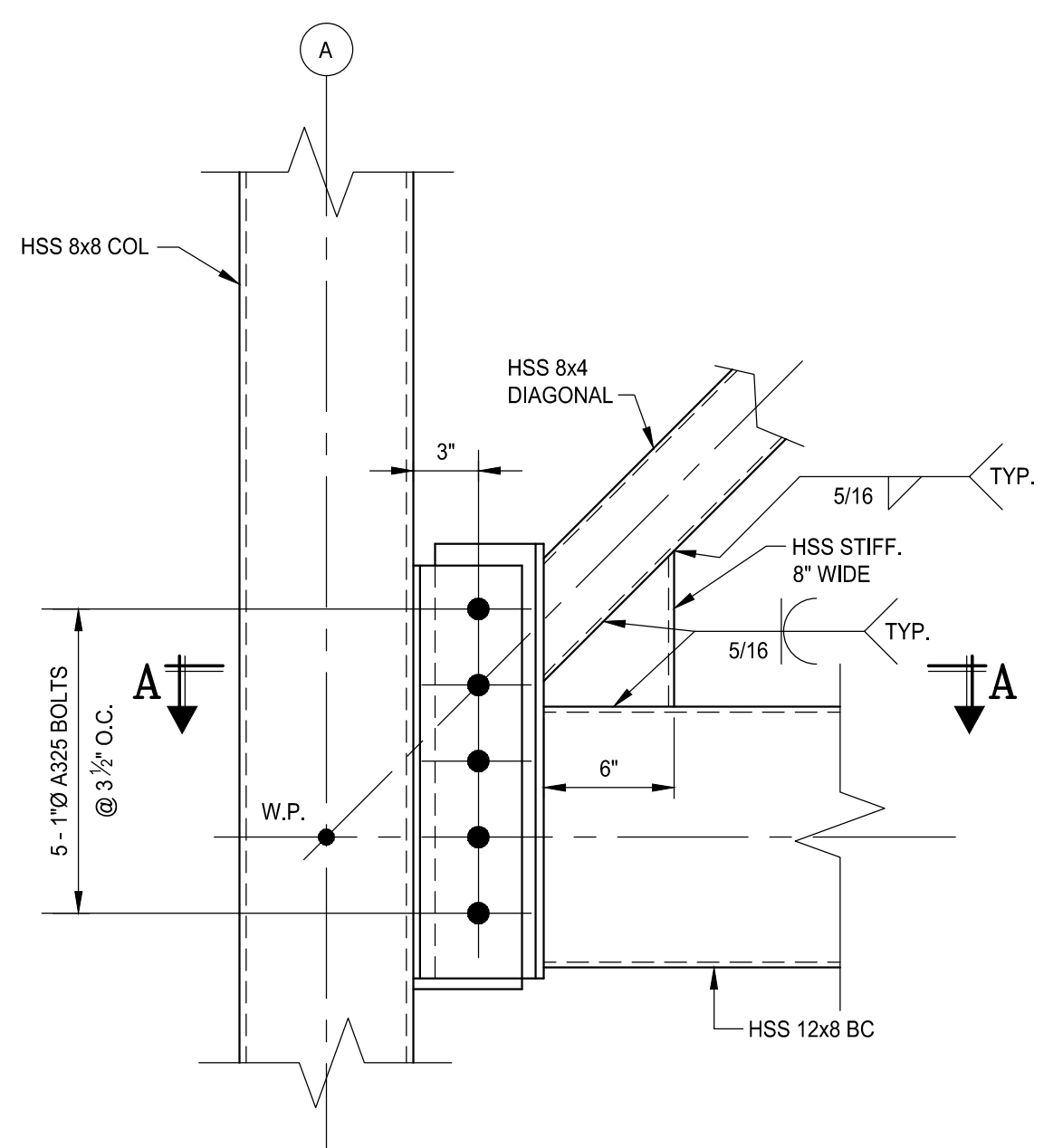
4 DETAIL
SCALE: 1 1/2" = 1'-0"



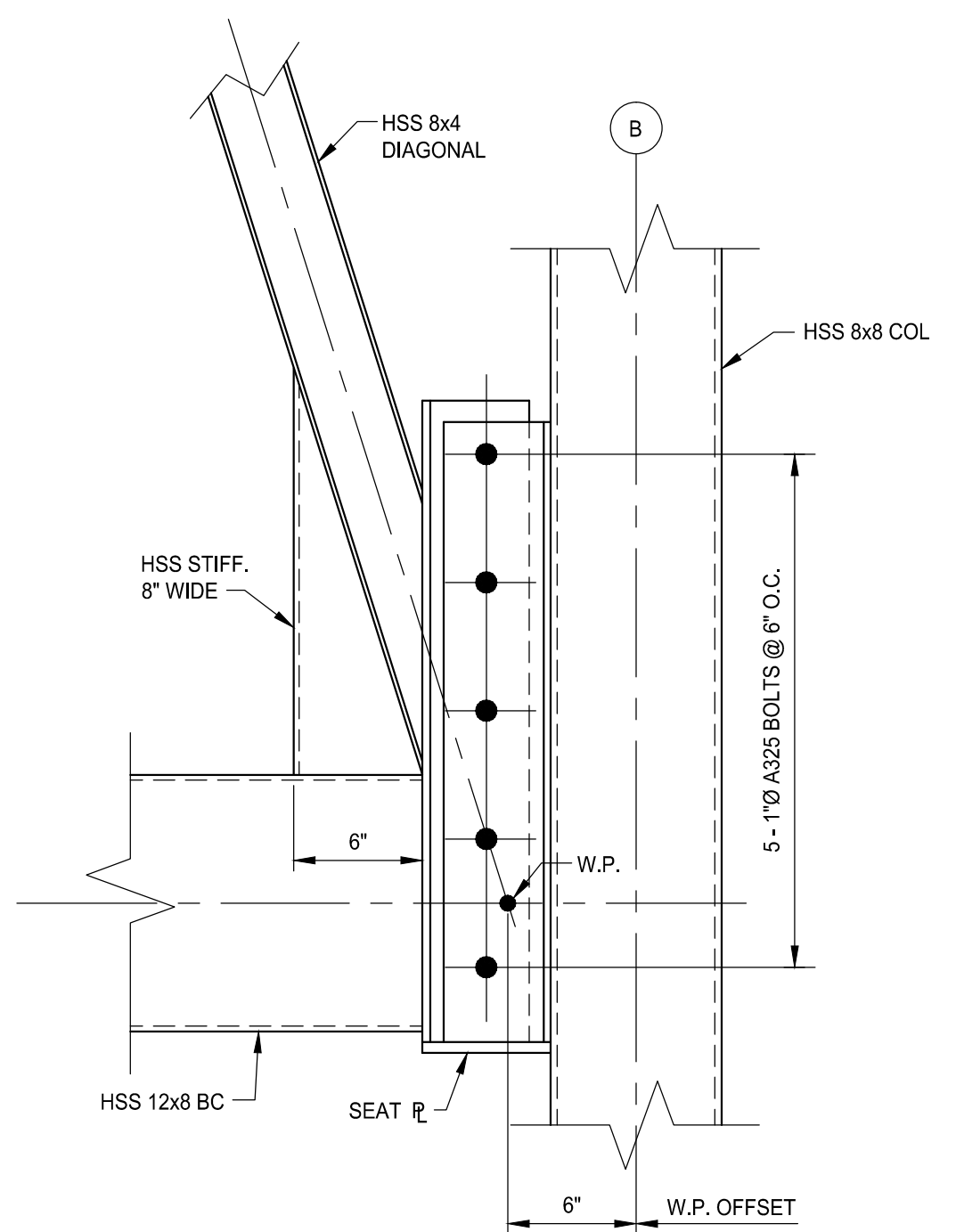
3 DETAIL
SCALE: 1" = 1'-0"



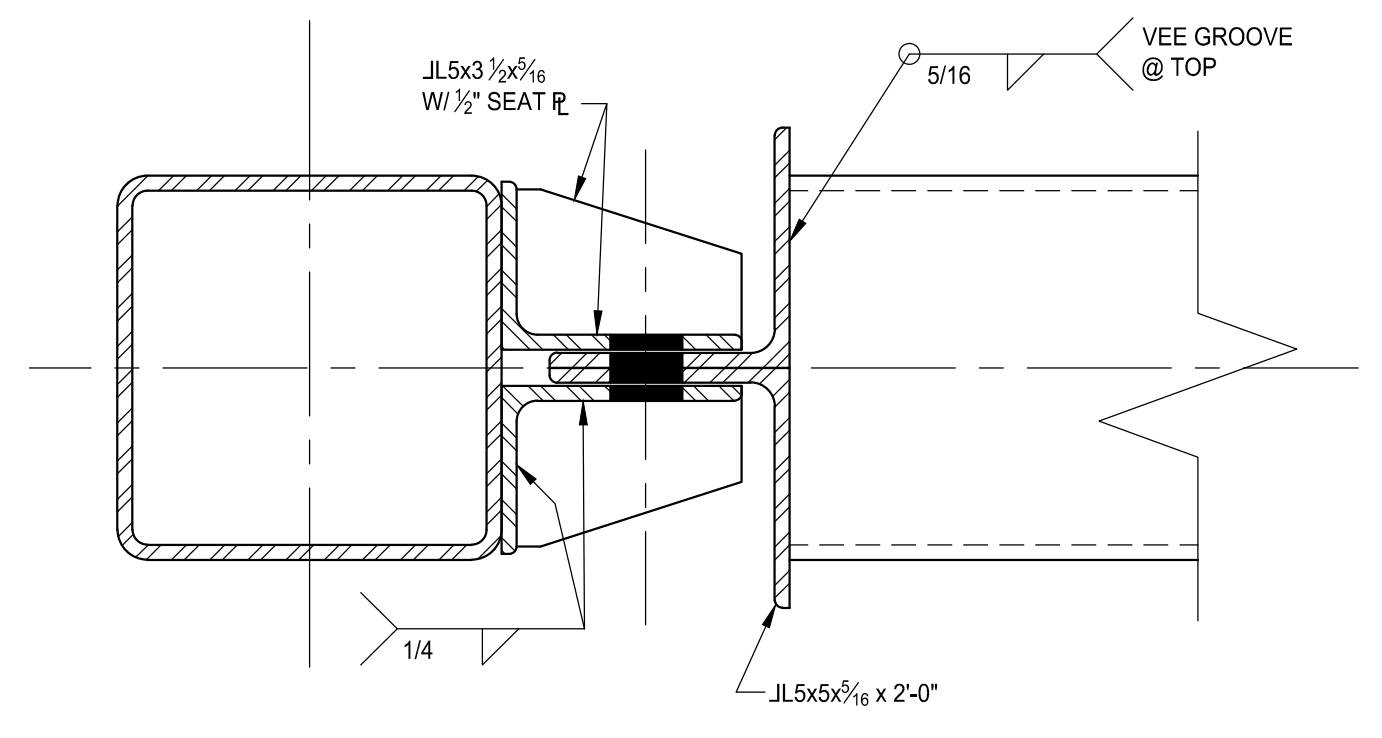
2 SECTION
SCALE: 1" = 1'-0"



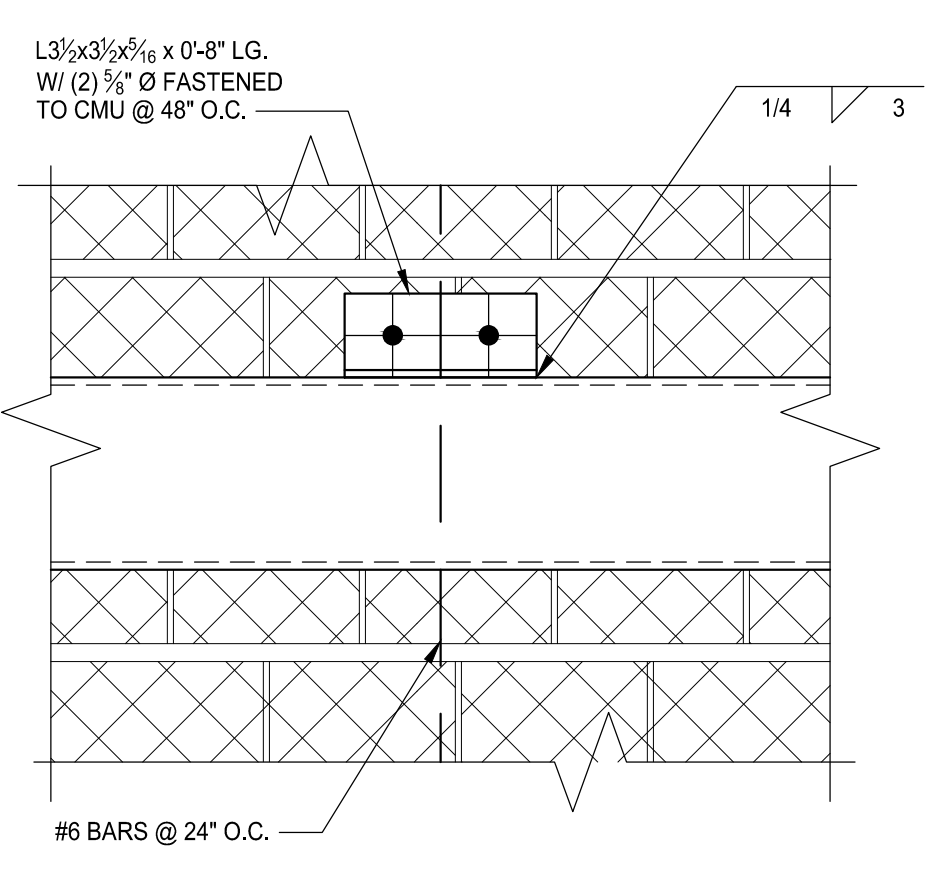
6 DETAIL
SCALE: 1 1/2" = 1'-0"



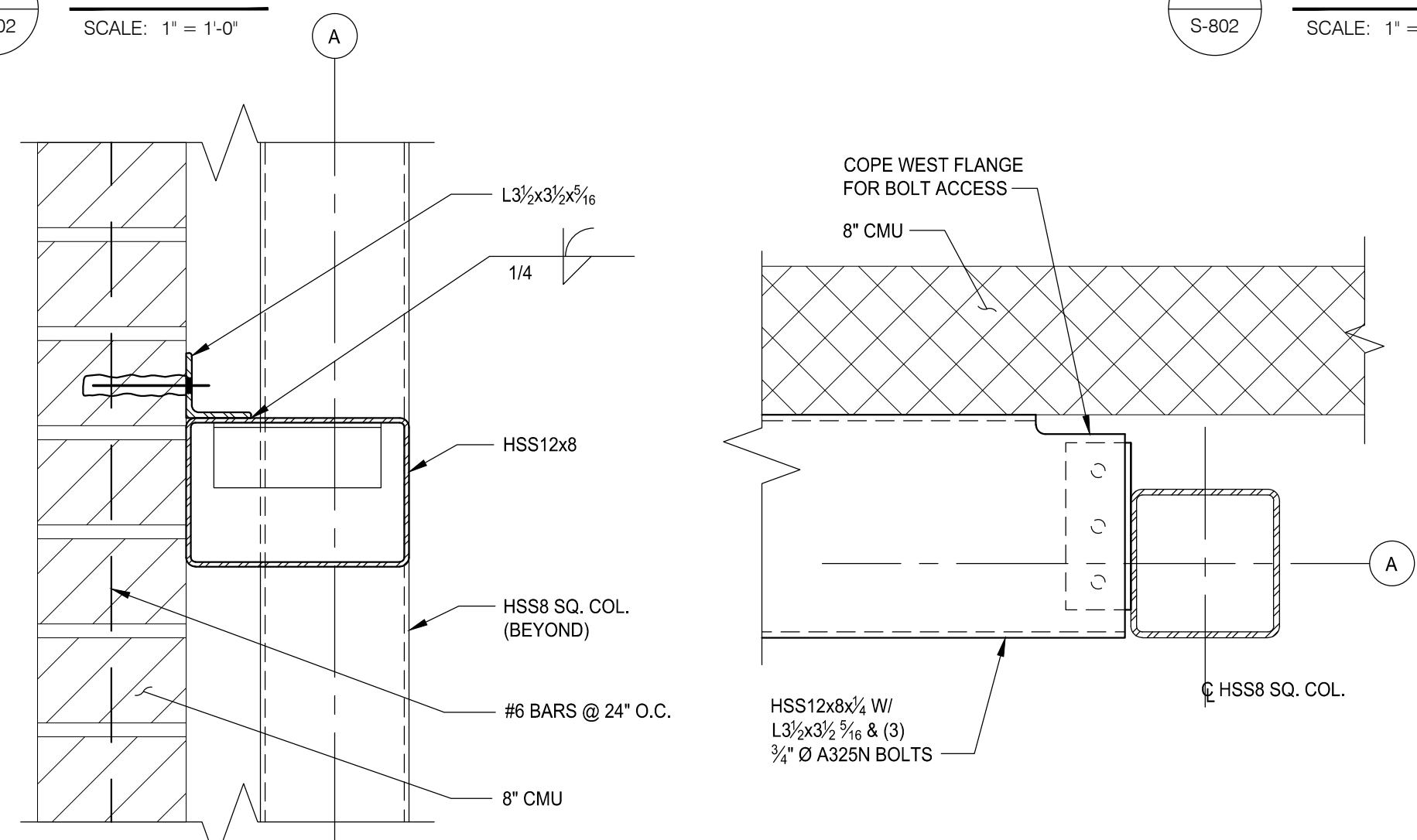
5 DETAIL
SCALE: 1 1/2" = 1'-0"



SECTION A-A
SCALE: 3" = 1'-0"



7 SECTION @ GRID (A) HEAD GIRT
SCALE: 1 1/2" = 1'-0"



7 DETAIL
SCALE: 1" = 1'-0"



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Corporate Headquarters
45650 Grand River Avenue
Novi, Michigan 48374
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Novi, Michigan 48375

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Key Plan: No Scale

Client:
CITY OF BIRMINGHAM

Project:
**BIRMINGHAM
FIRE STATION No. 2**

1600 WEST MAPLE
BIRMINGHAM, MI 48009

Seal:

Date	Issued For
07/19/16	95 - REVIEW
07/29/16	FINAL REVIEW
12/05/16	BIDS

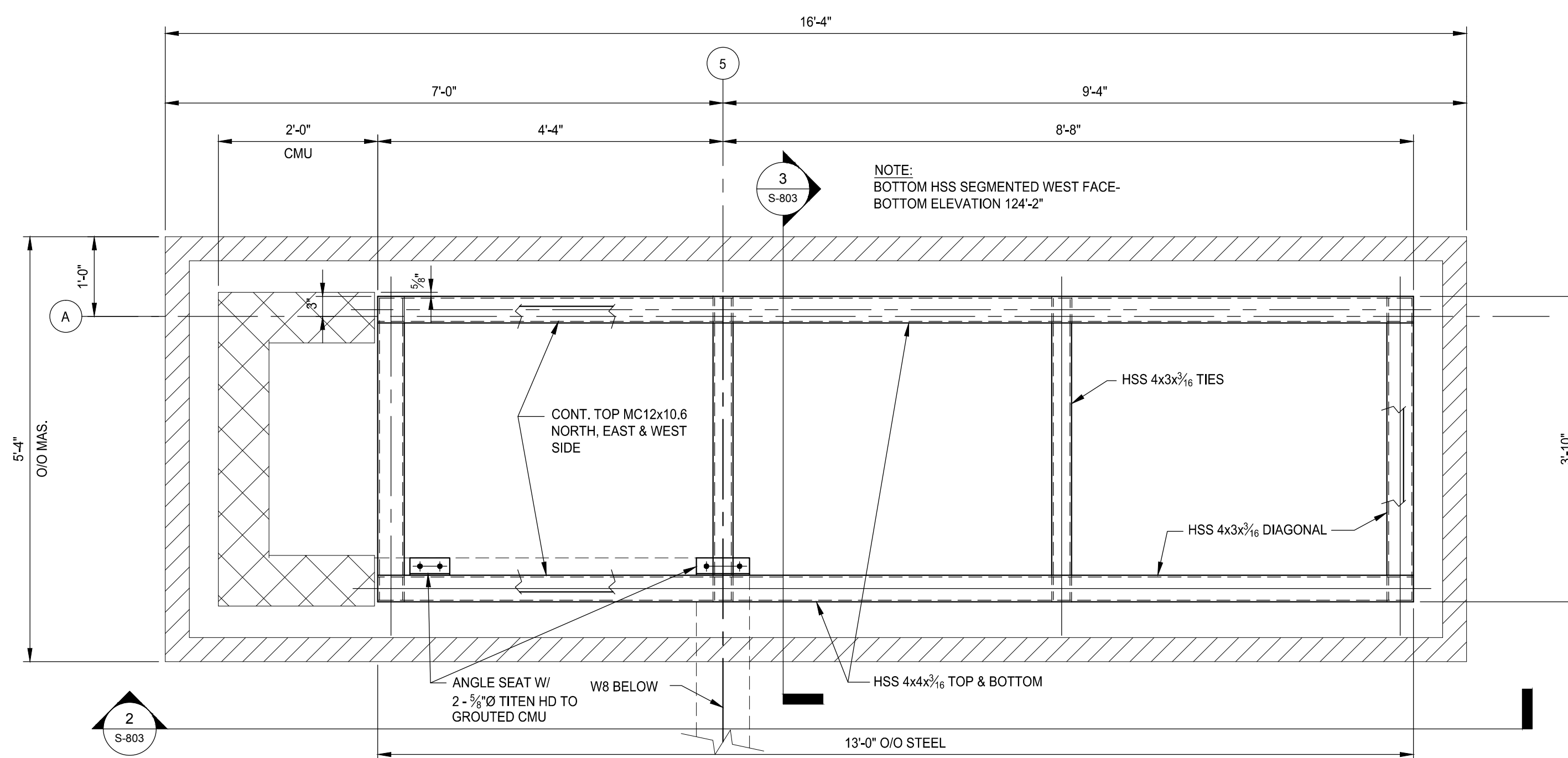
Drawn: J. WILKIE
 Checked: M. EAGEN
 Approved: S. PETERSON

Sheet Title:
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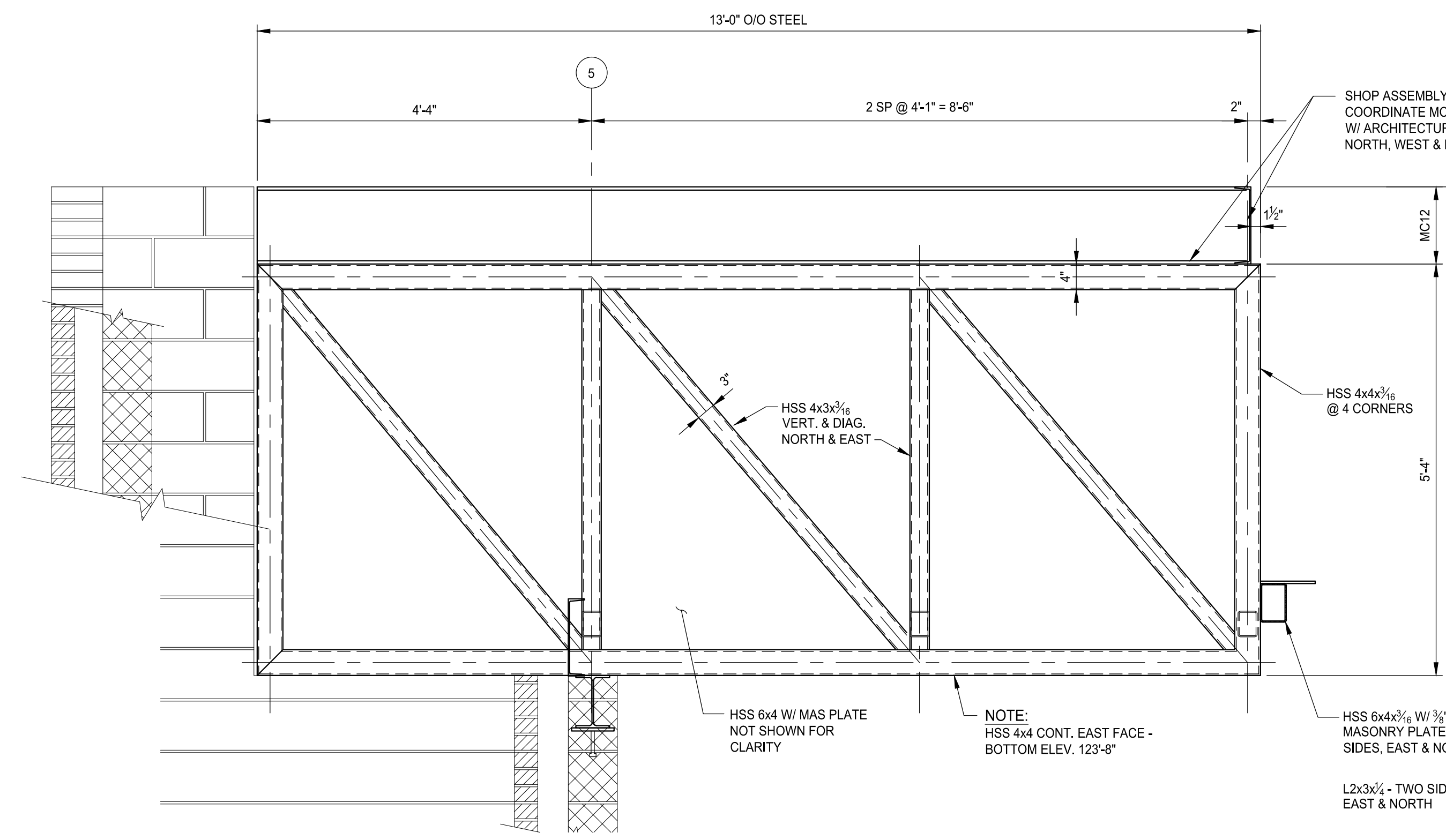
Project Number: **15566**

Sheet Number: **S-803**

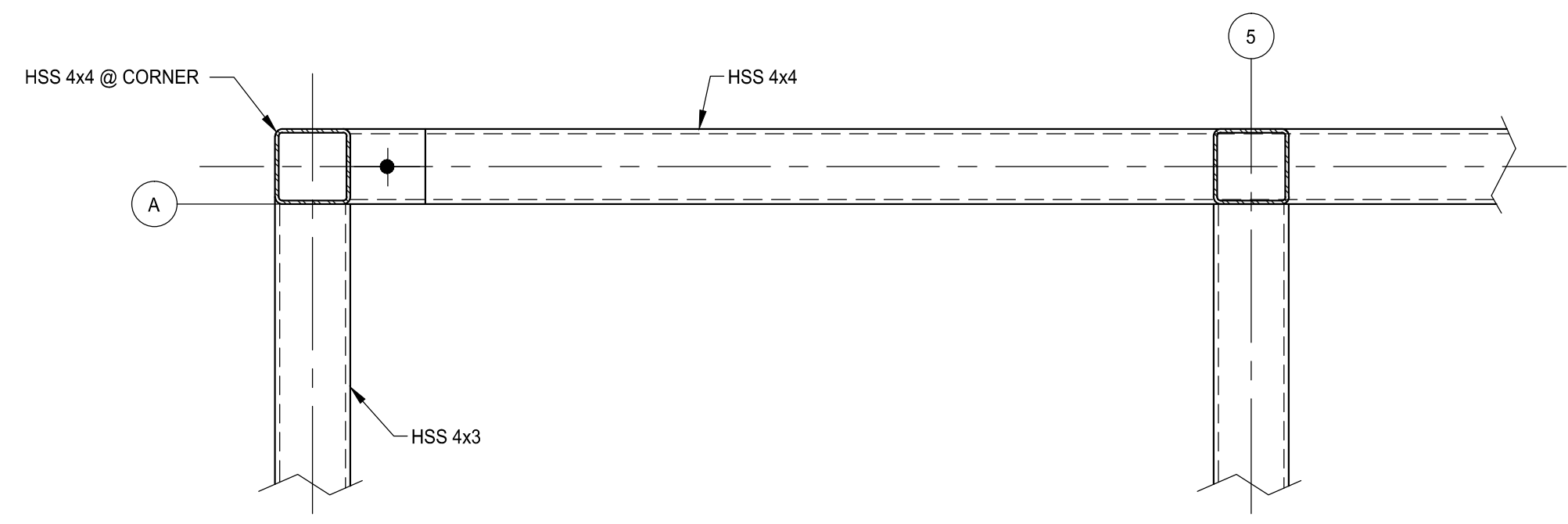
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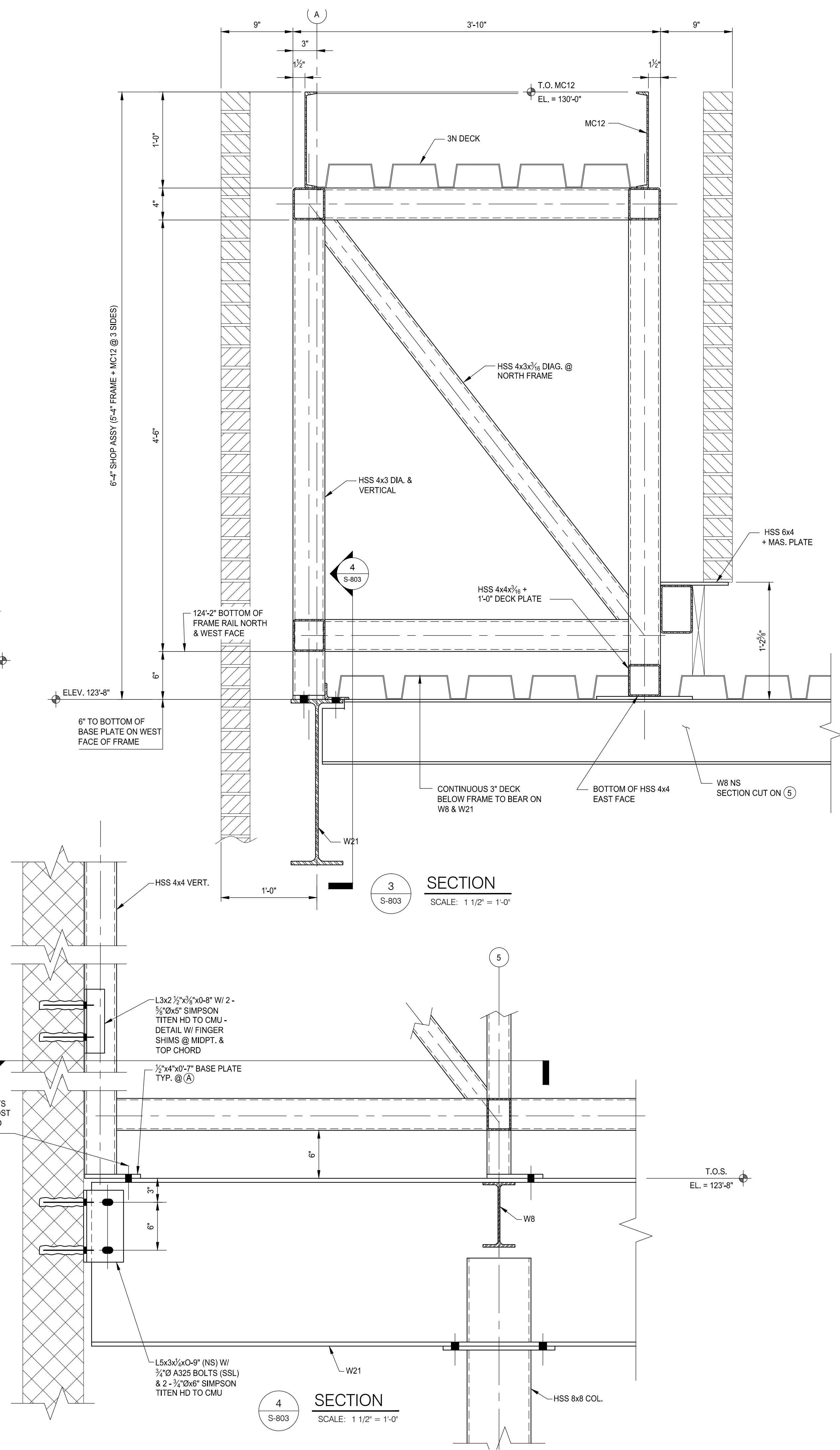
PLAN VIEW - FLAG TOWER MASONRY FRAME
 SCALE: 3/4" = 1'-0" SHOP WELDED



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



SECTION 5
 SCALE: 1 1/2" = 1'-0"



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

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



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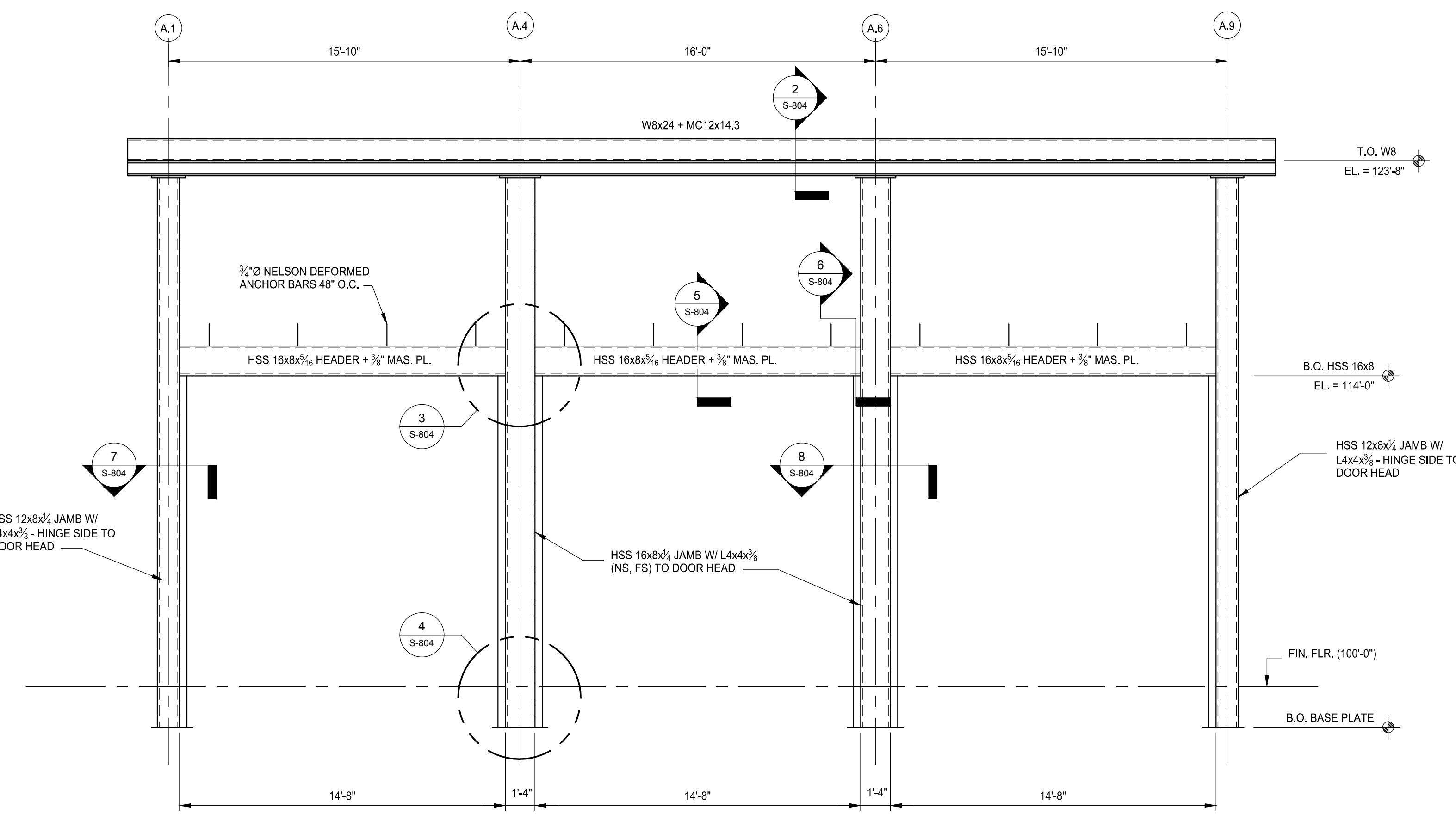
Drawn: J. WILKIE
Checked: M. EAGEN
Approved: S. PETERSON

Sheet Title:
FRAMING DETAILS

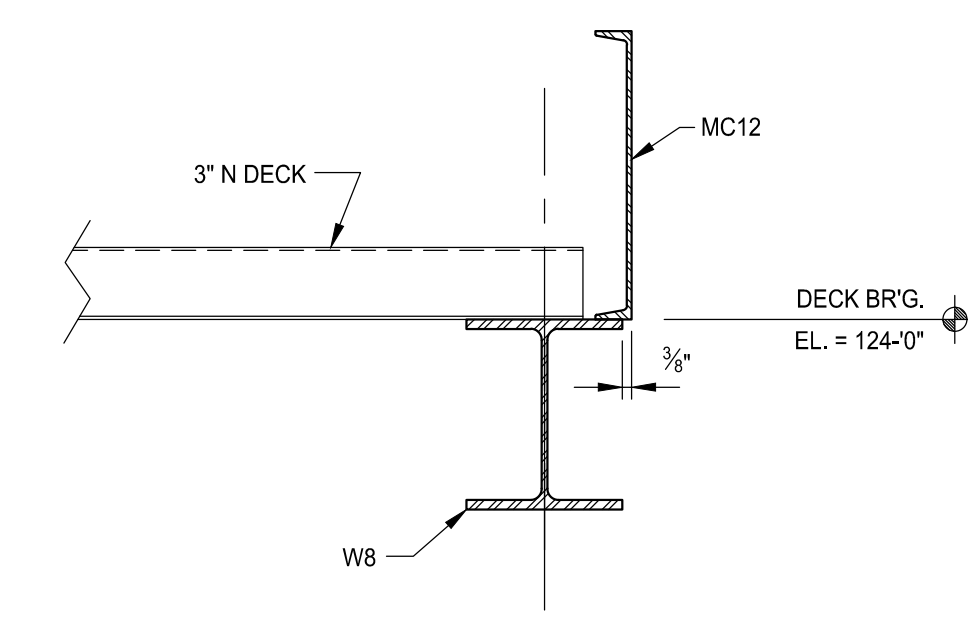
Project Number: 15566

Sheet Number: **S-804**

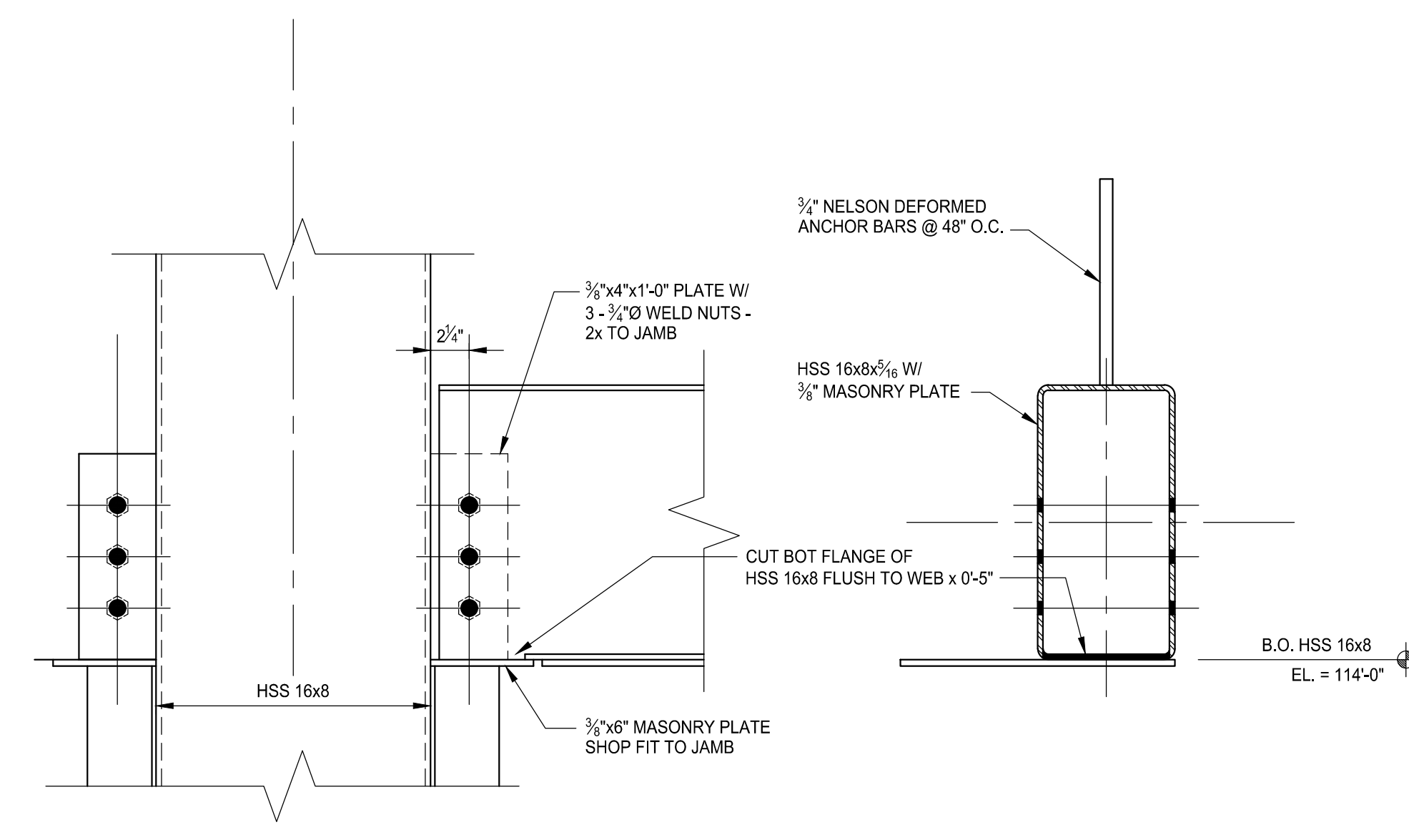
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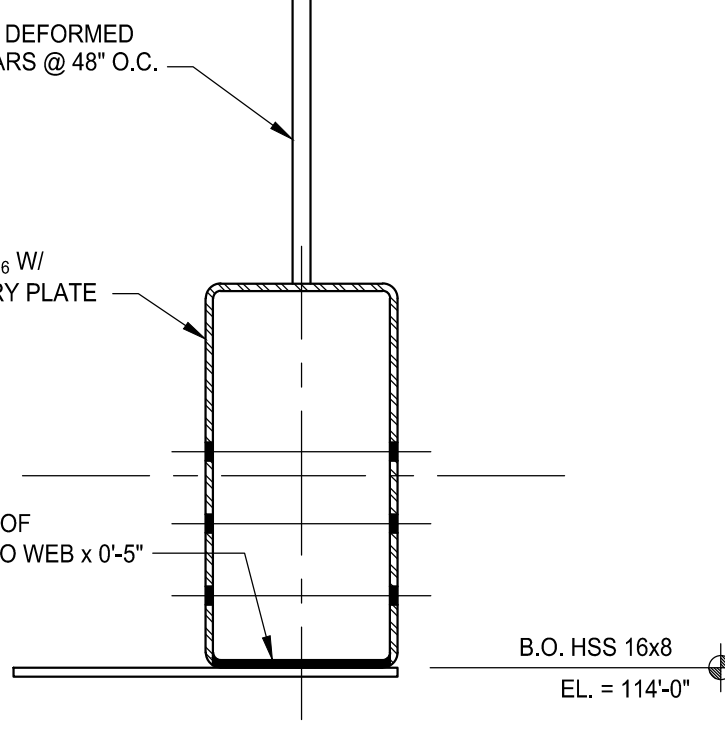
1 ELEVATION @ APPARATUS BAY SOUTH WALL FRAMING
SCALE: 1/4" = 1'-0"



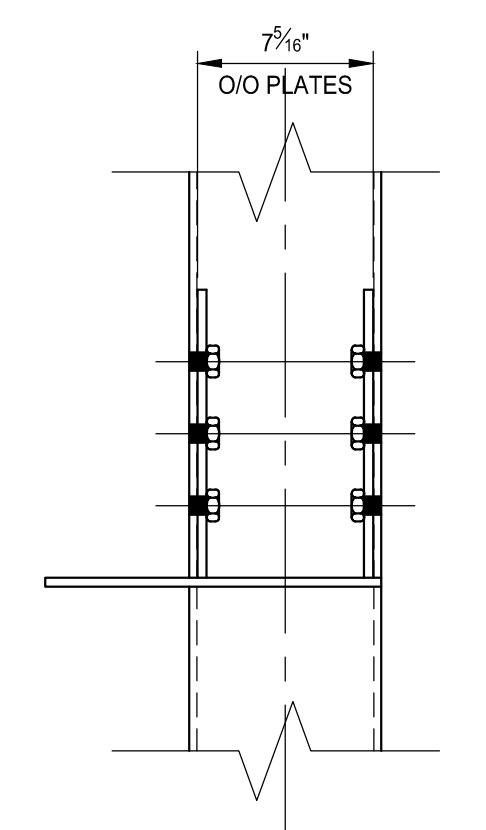
2 SECTION
SCALE: 1 1/2" = 1'-0"



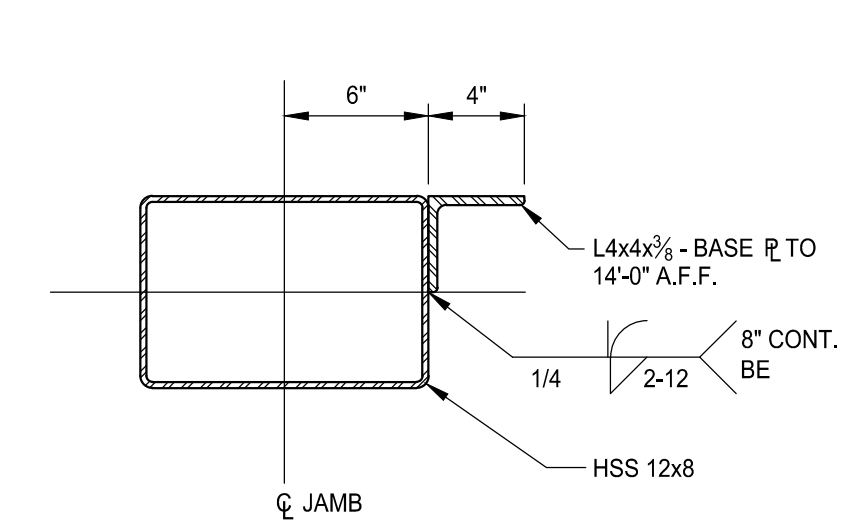
3 DETAIL
SCALE: 1 1/2" = 1'-0"



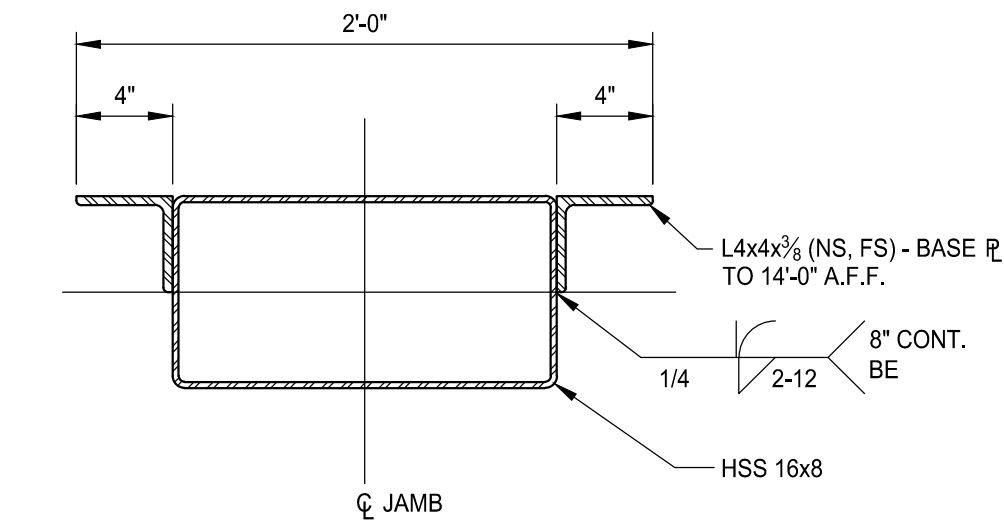
5 SECTION
SCALE: 1 1/2" = 1'-0"



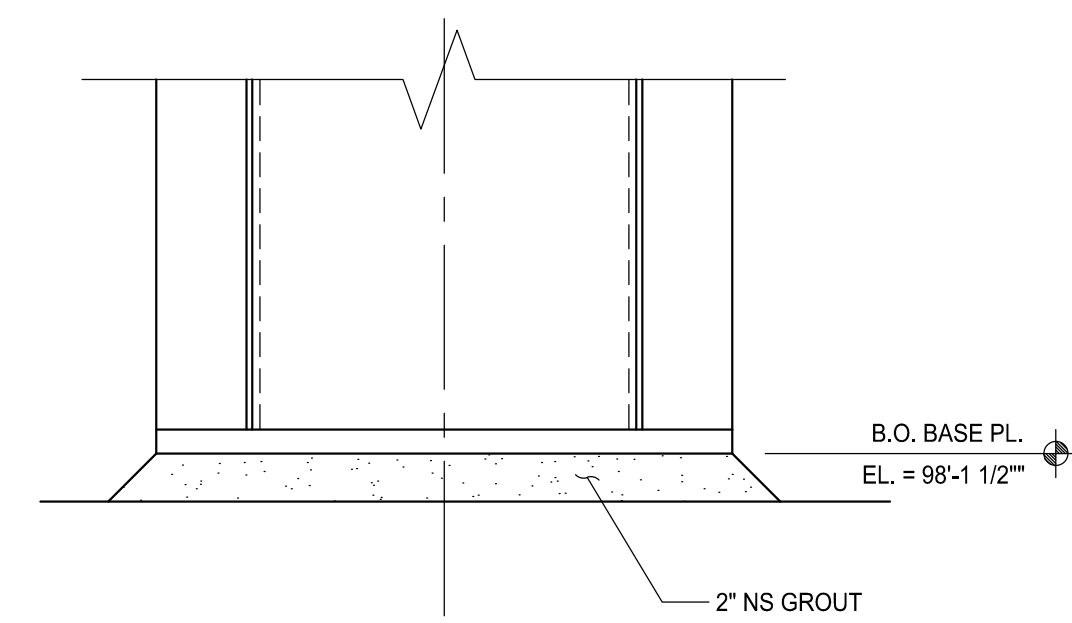
6 DETAIL
SCALE: 1 1/2" = 1'-0"



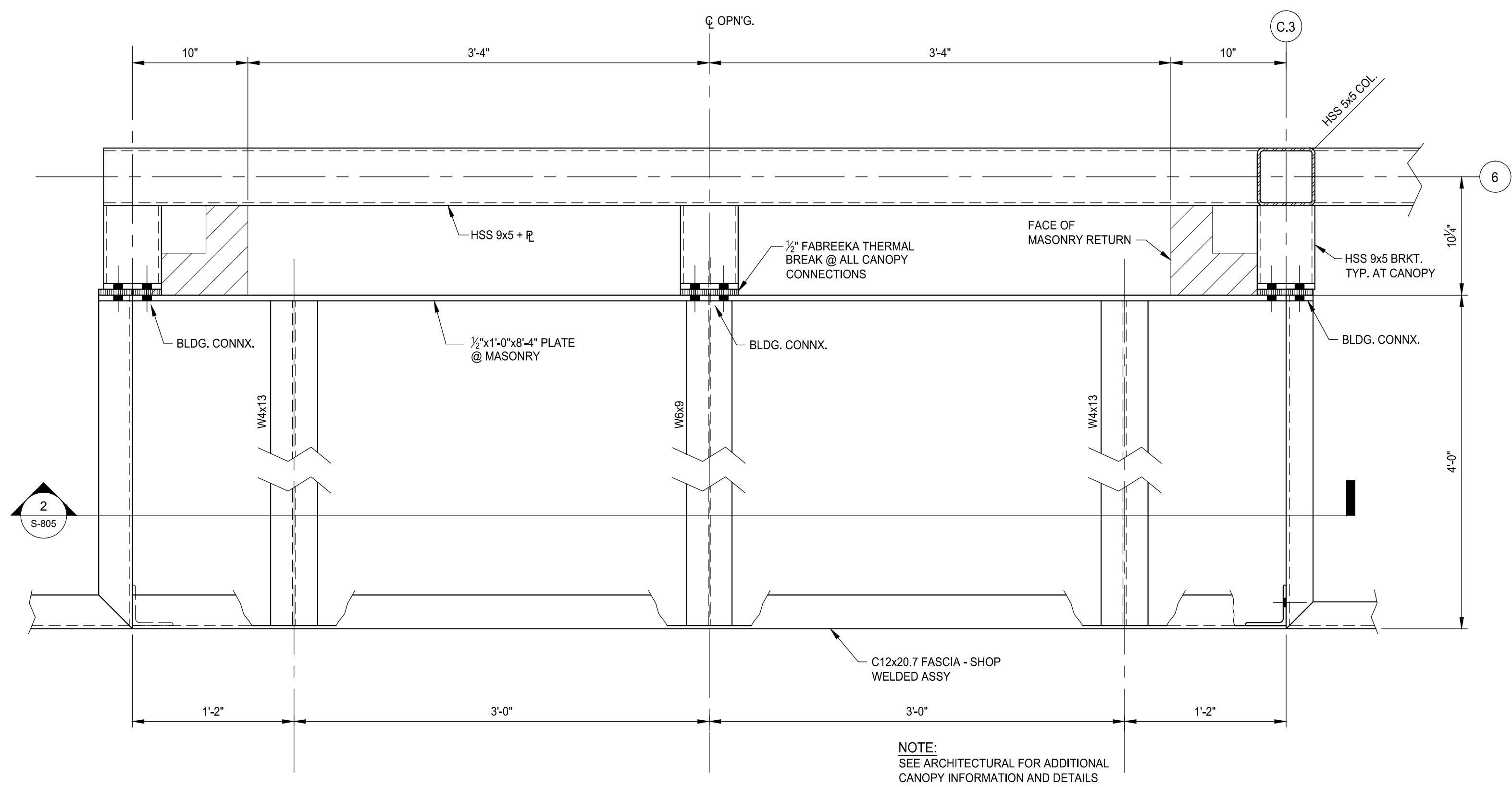
7 SECTION
SCALE: 1 1/2" = 1'-0"



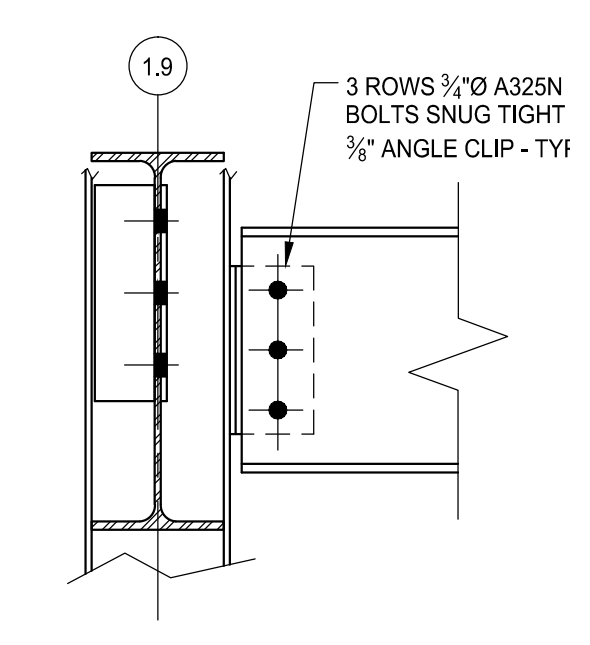
8 SECTION
SCALE: 1 1/2" = 1'-0"



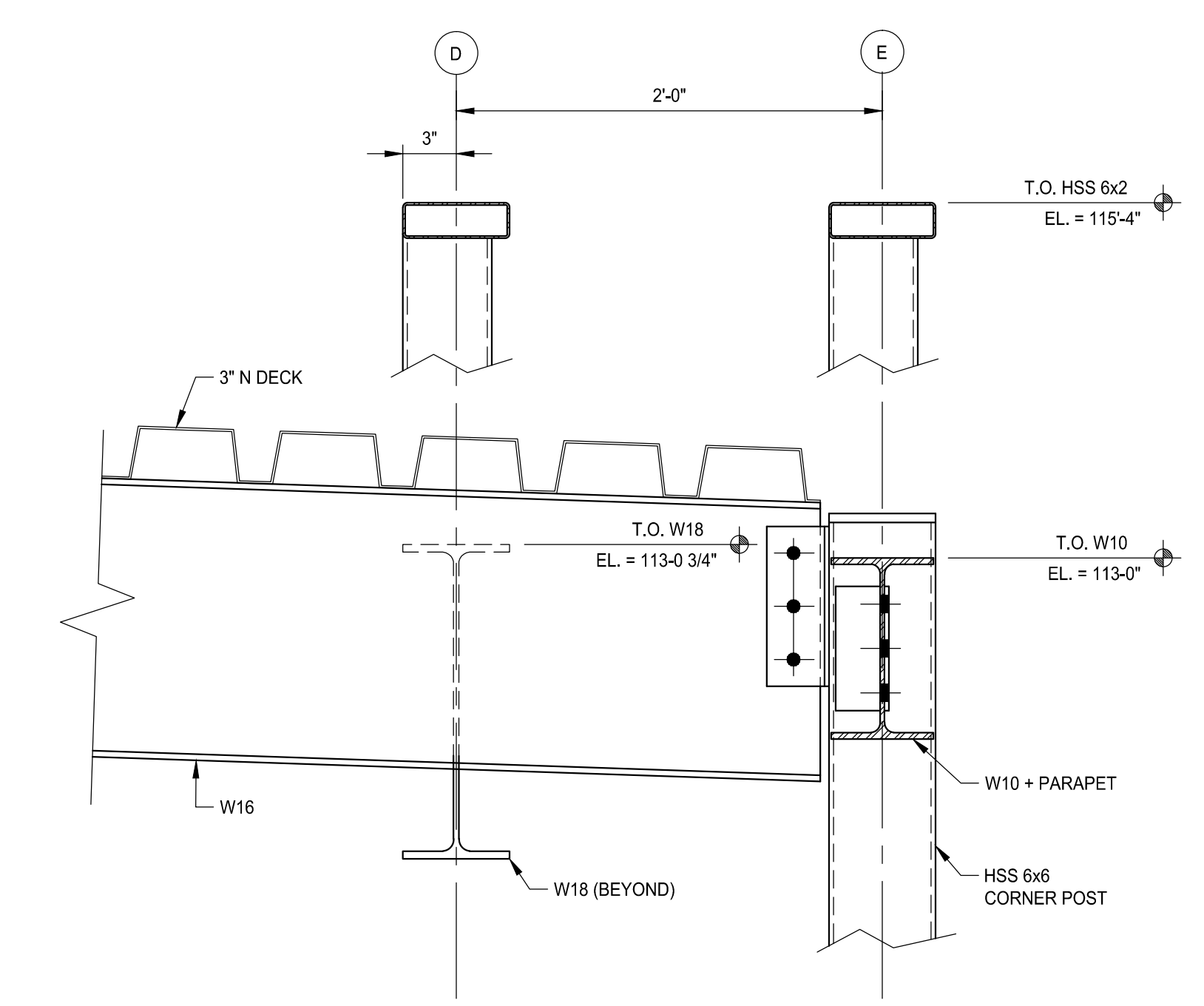
3 DETAIL
SCALE: 1 1/2" = 1'-0"



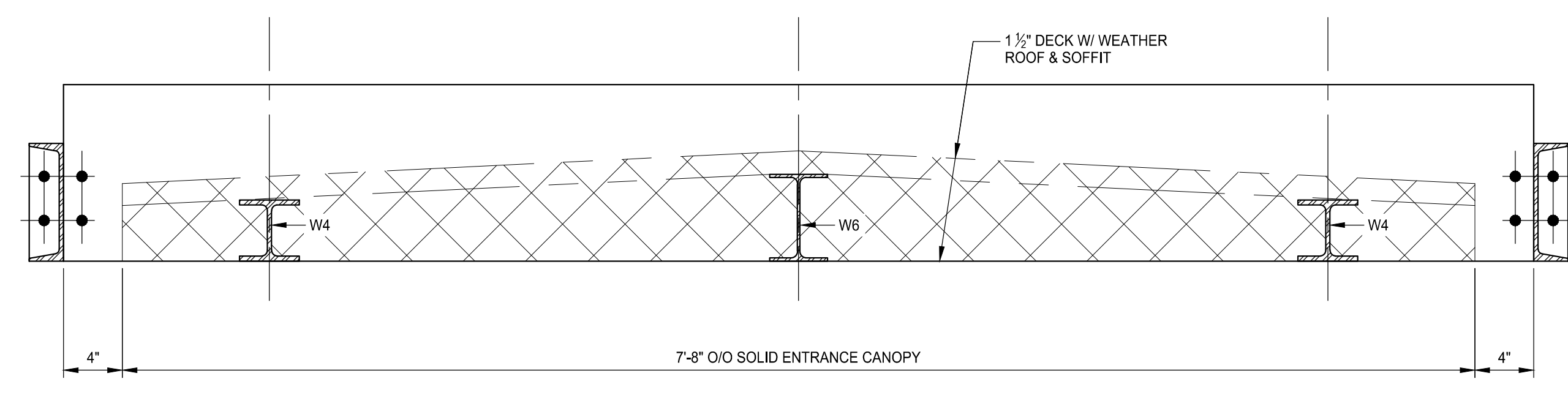
1 PLAN VIEW - ENTRY CANOPY
SCALE: 1 1/2" = 1'-0"



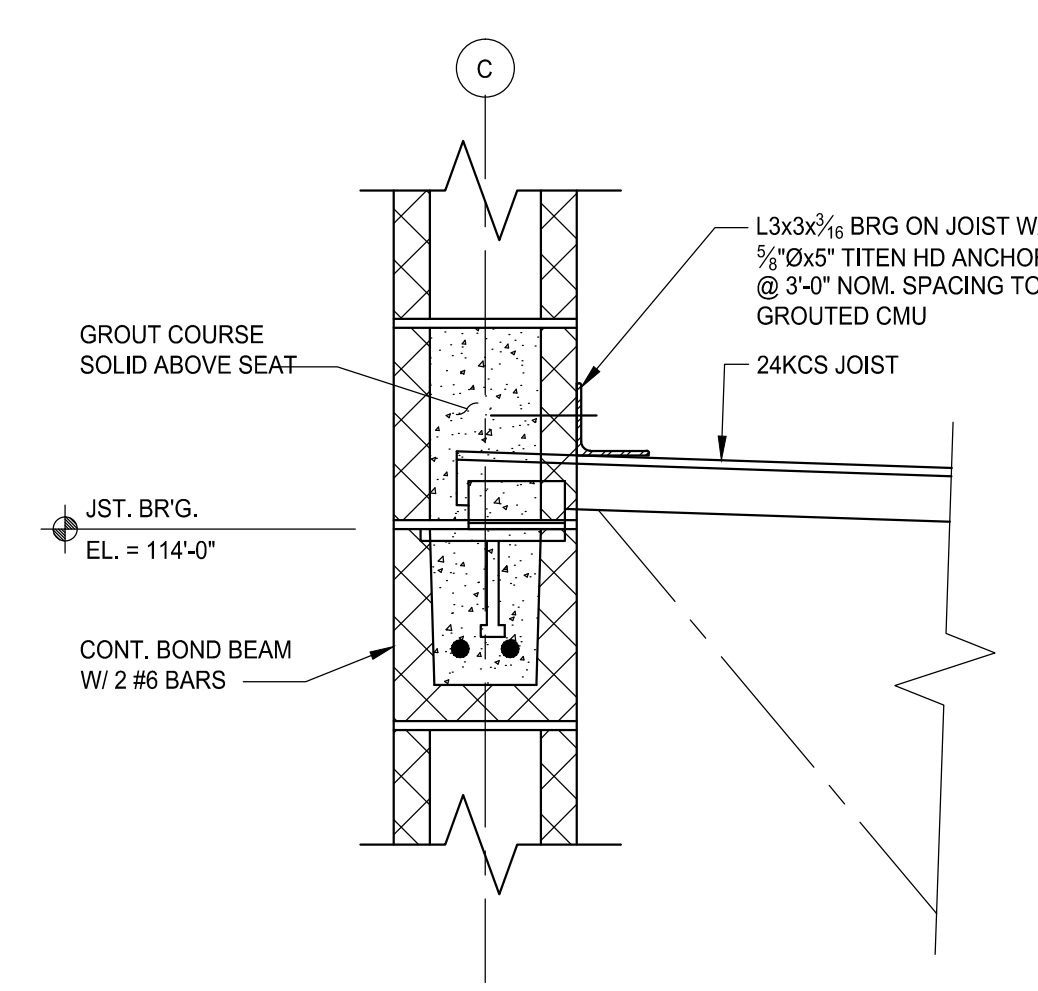
3 SECTION
SCALE: 1 1/2" = 1'-0"



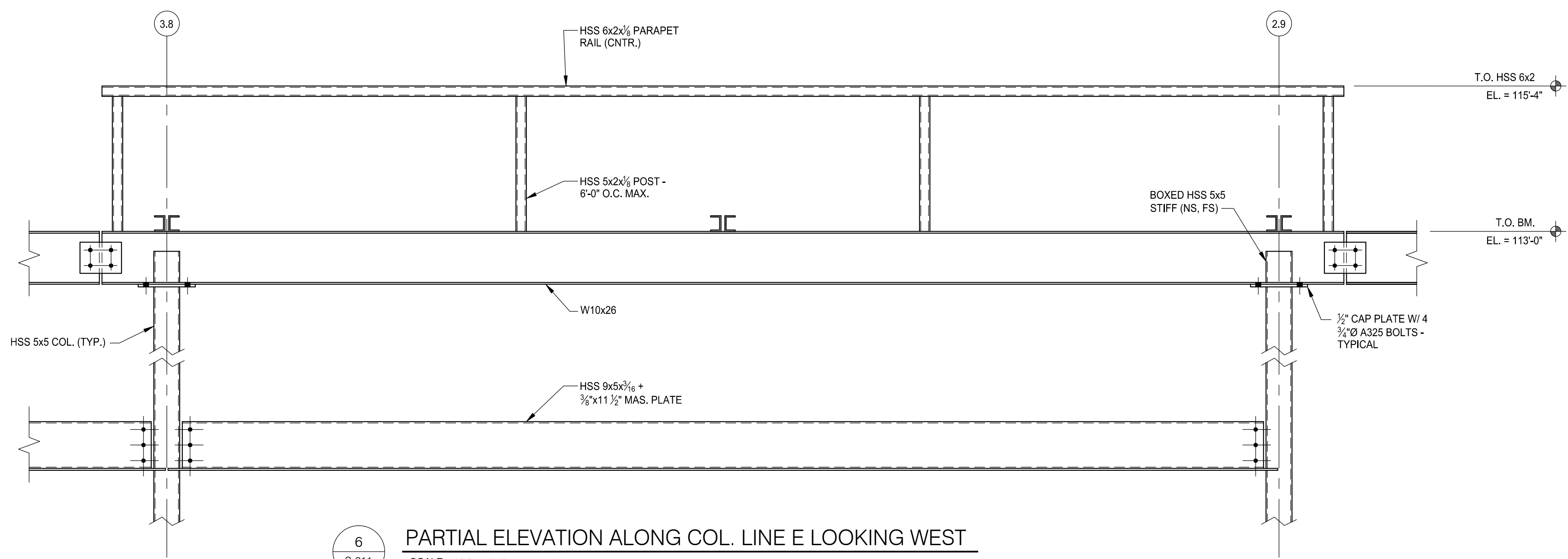
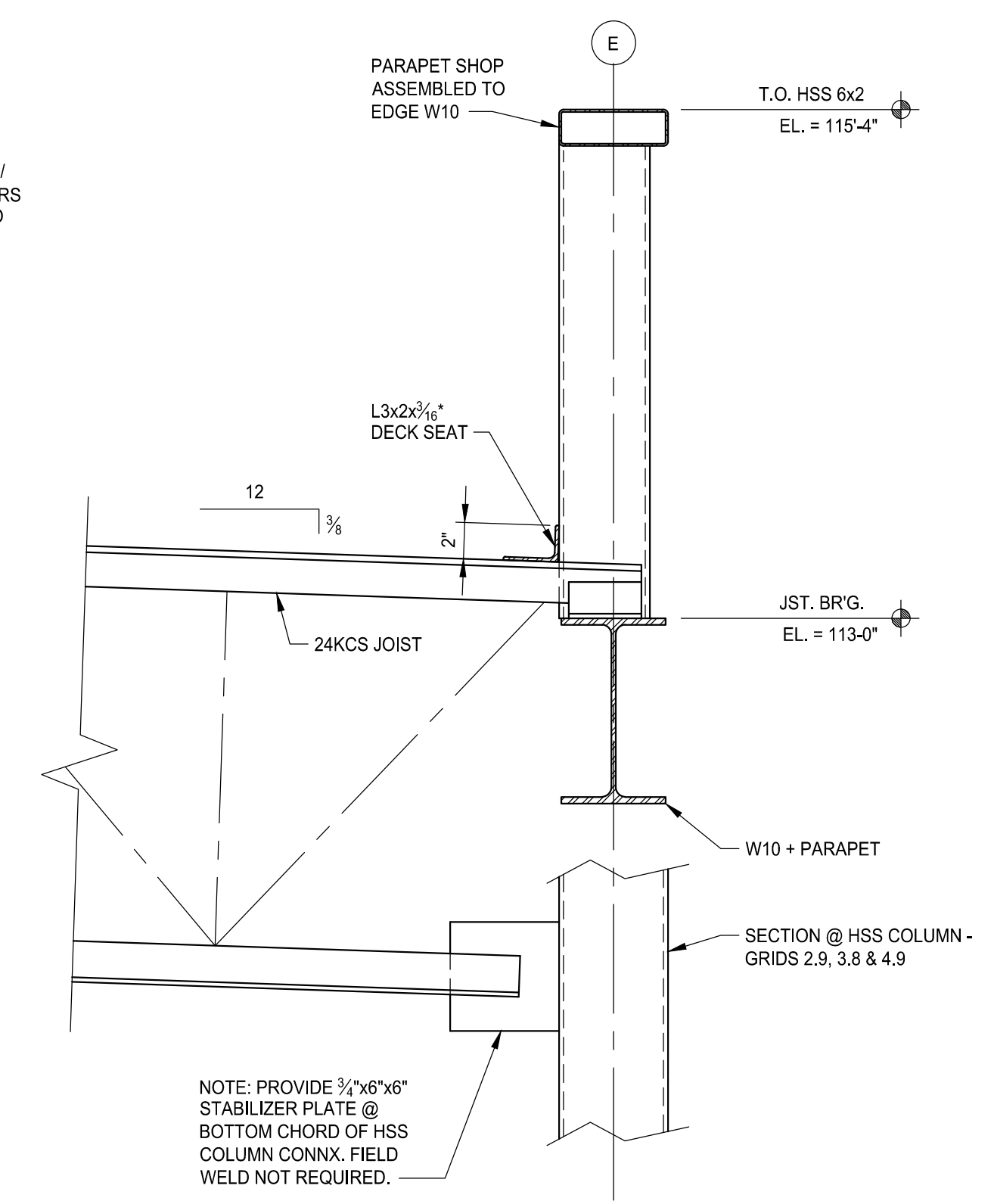
4 SECTION
SCALE: 1 1/2" = 1'-0"



2 SECTION
SCALE: 1 1/2" = 1'-0"



5 SECTION
SCALE: 1 1/2" = 1'-0"



6 PARTIAL ELEVATION ALONG COL. LINE E LOOKING WEST
SCALE: 3/4" = 1'-0"



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Corporate Headquarters
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Ph: (248)349-4500 • Fax: (248)349-1429

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Date	Issued For
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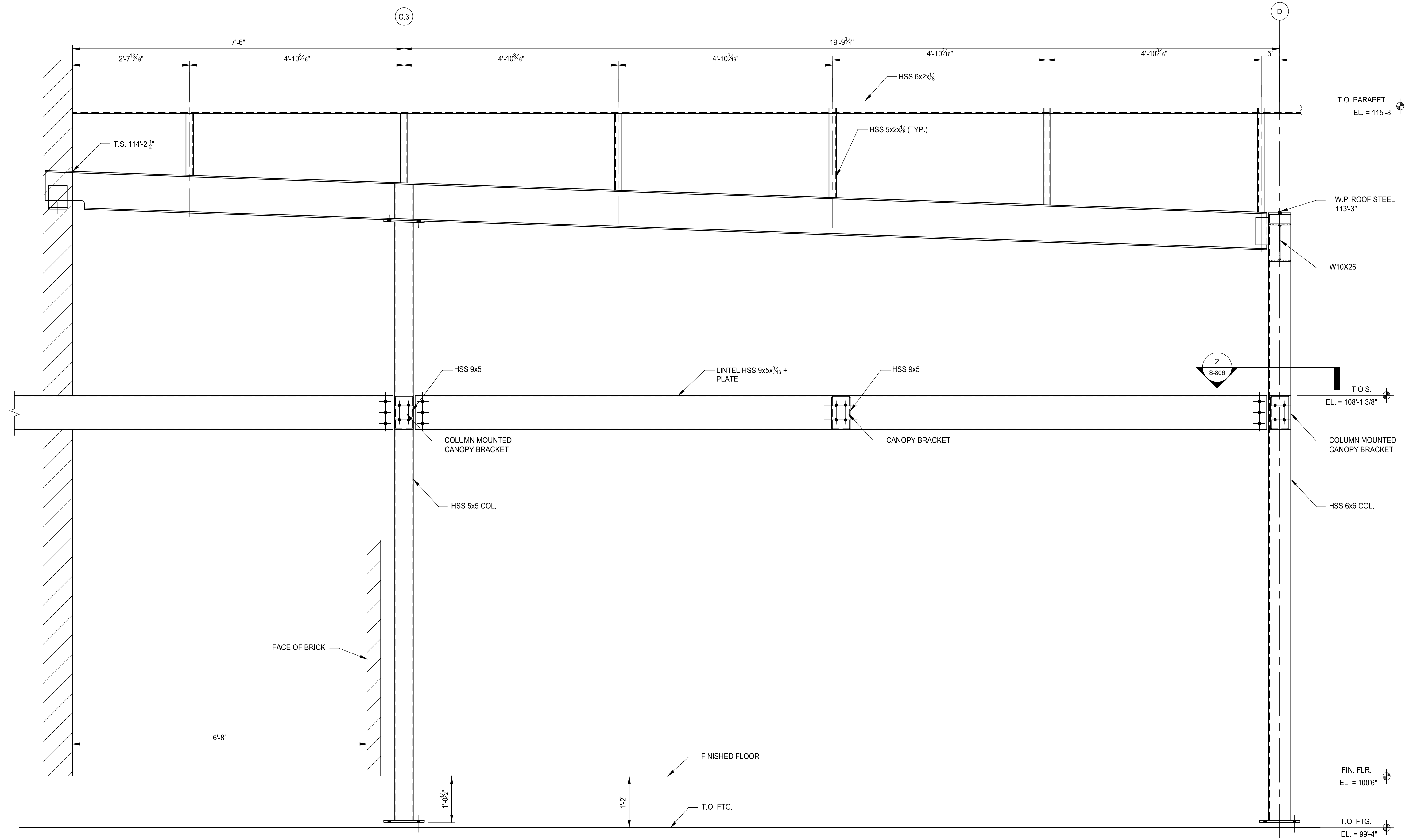
Drawn:	J. WILKIE
Checked:	M. EAGEN
Approved:	S. PETERSON

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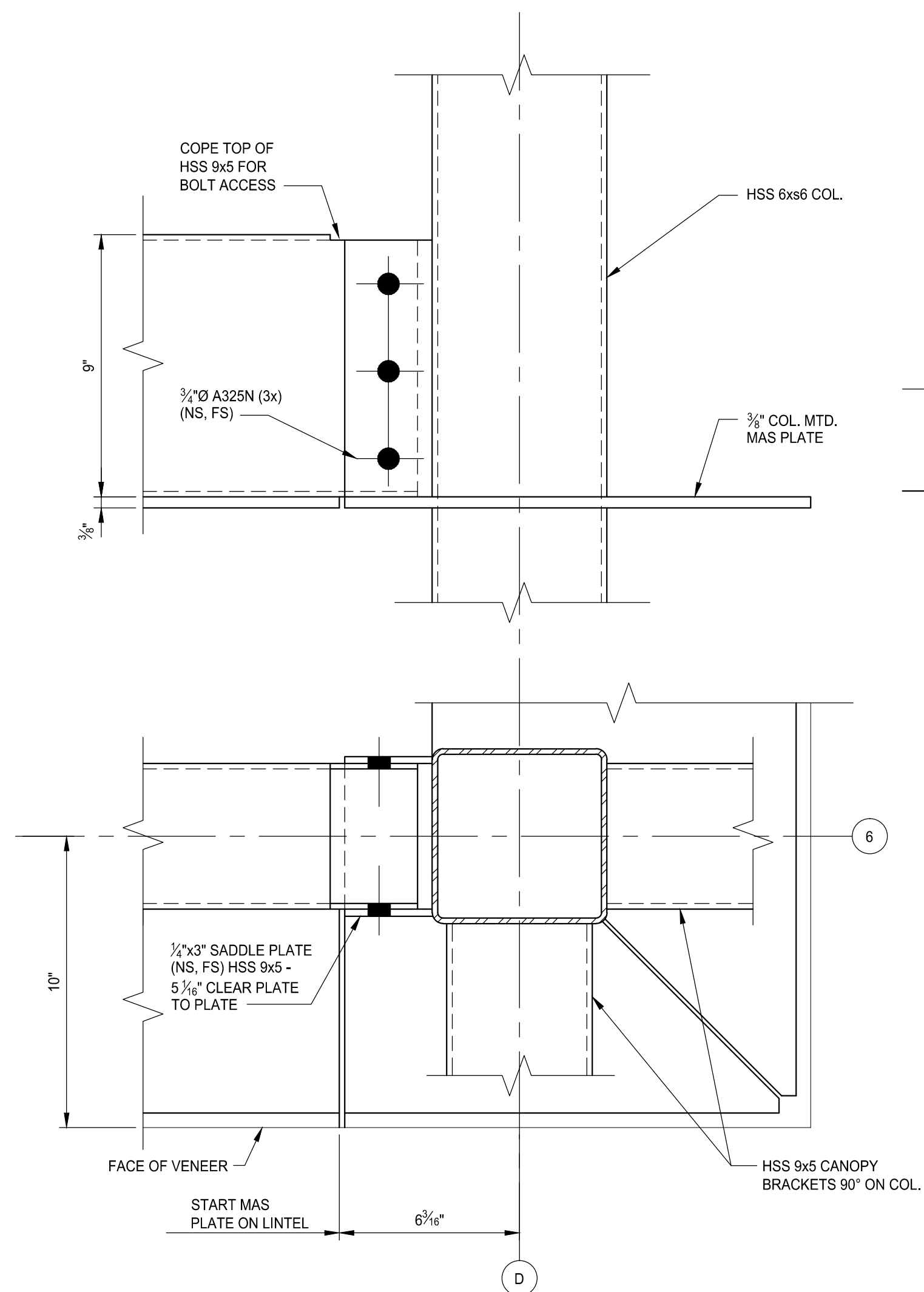
Project Number: 15566

Sheet Number: **S-806**

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1
SECTION
S-211
SCALE: 3/4" = 1'-0"



2
DETAIL
S-806
SCALE: 3" = 1'-0"



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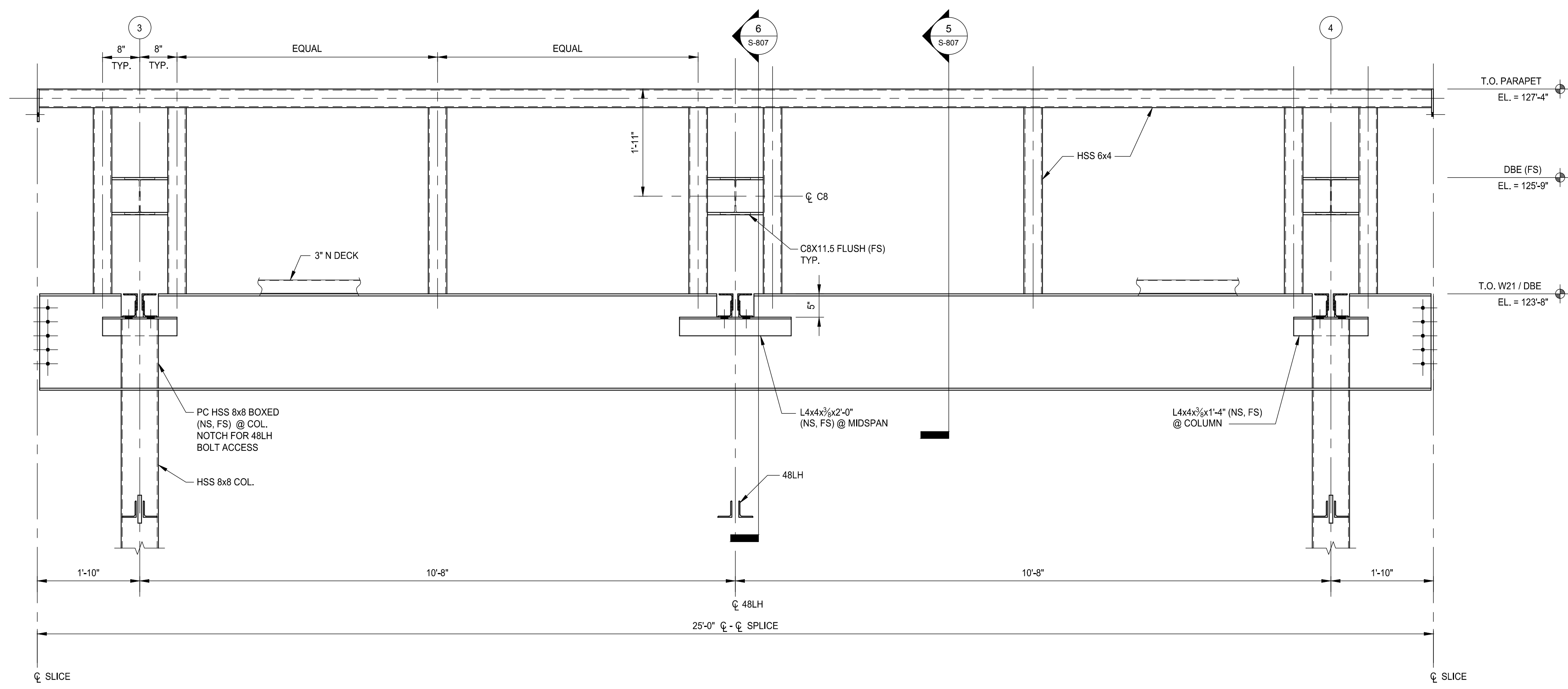
Drawn: J. WILKIE
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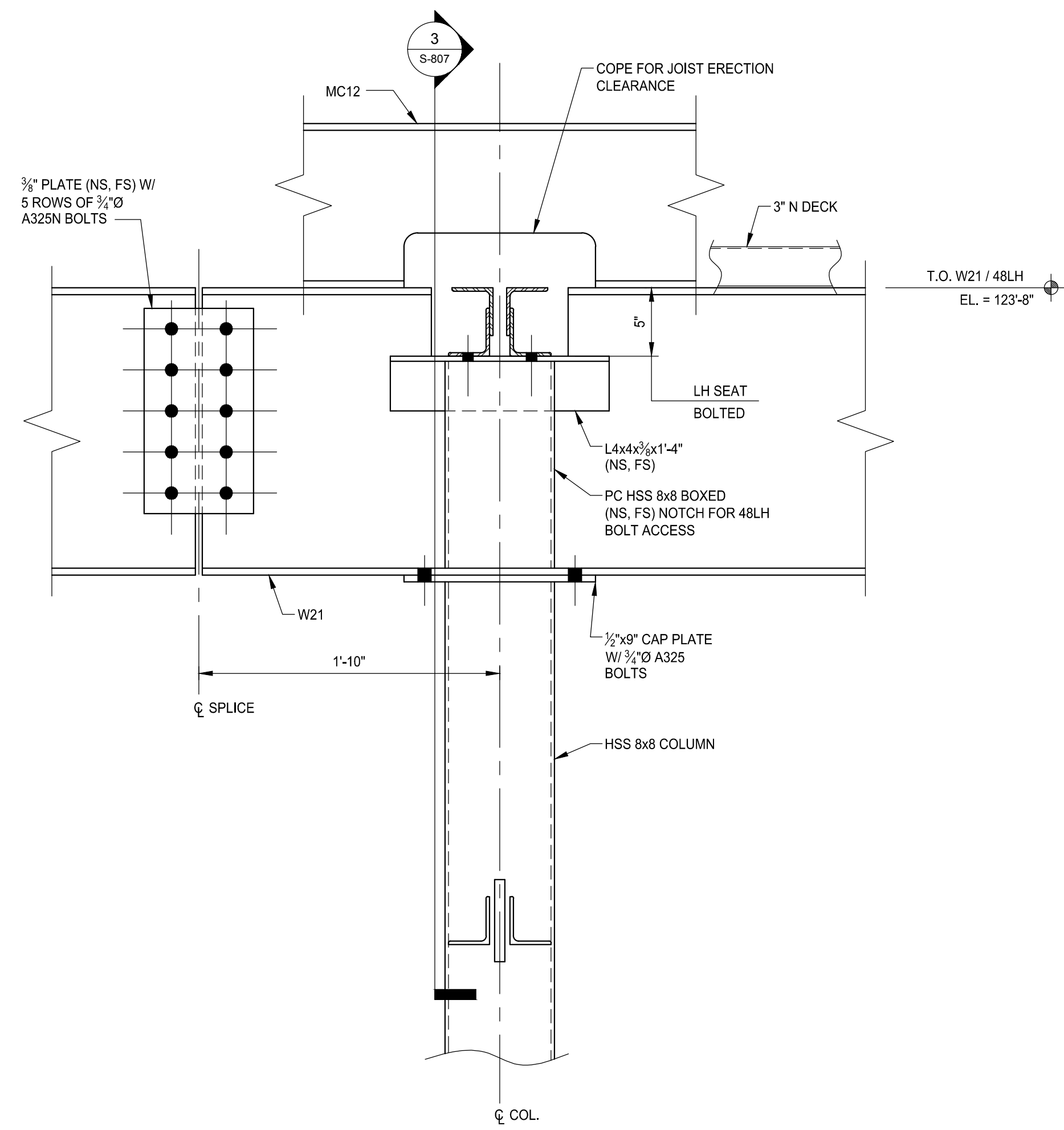
Project Number: 15566

Sheet Number: **S-807**

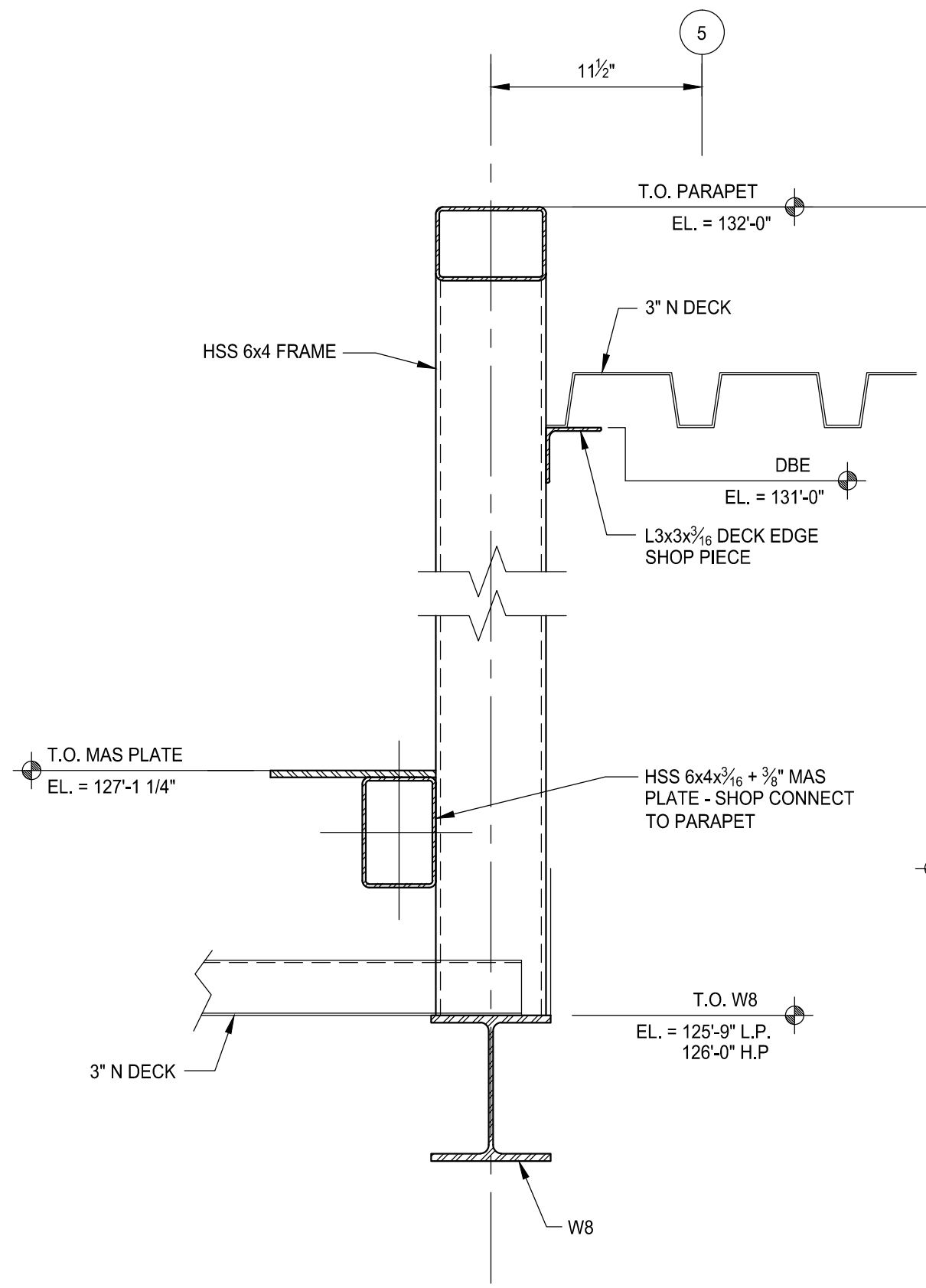
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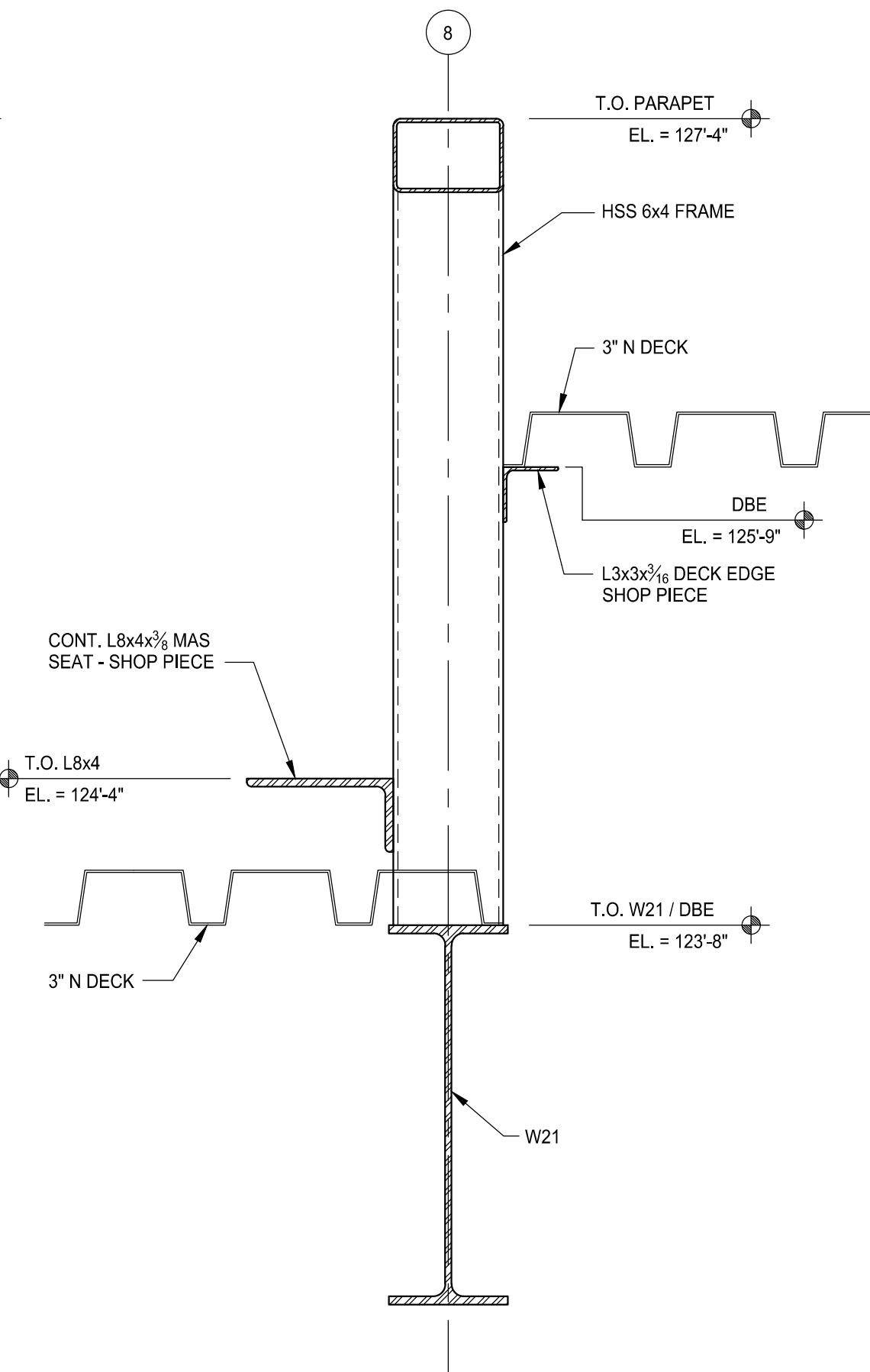
1 PARTIAL ELEVATION @ COL. LINE (B) - LOOKING EAST
SCALE: 3/4" = 1'-0"



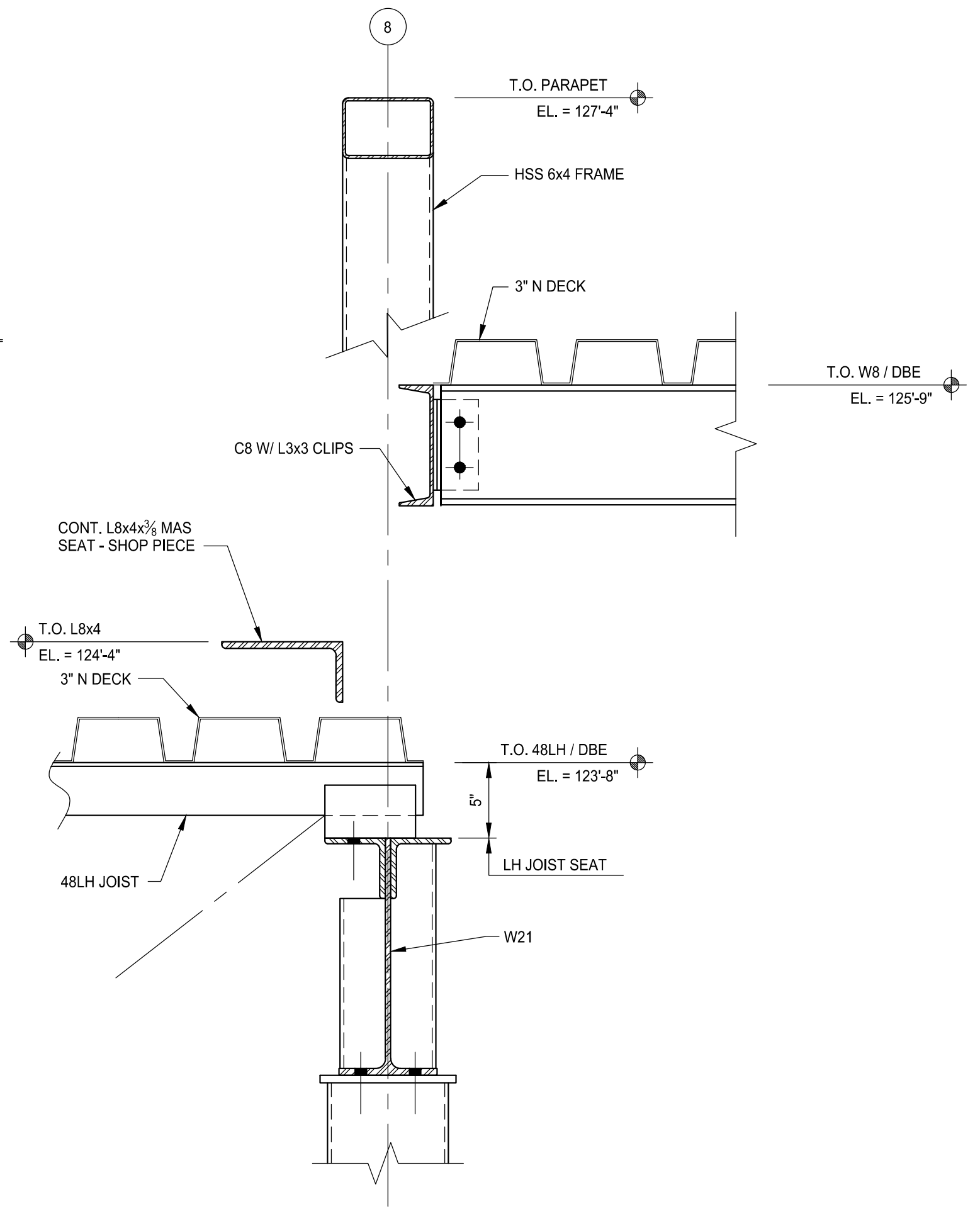
2 SECTION
SCALE: 1 1/2" = 1'-0"



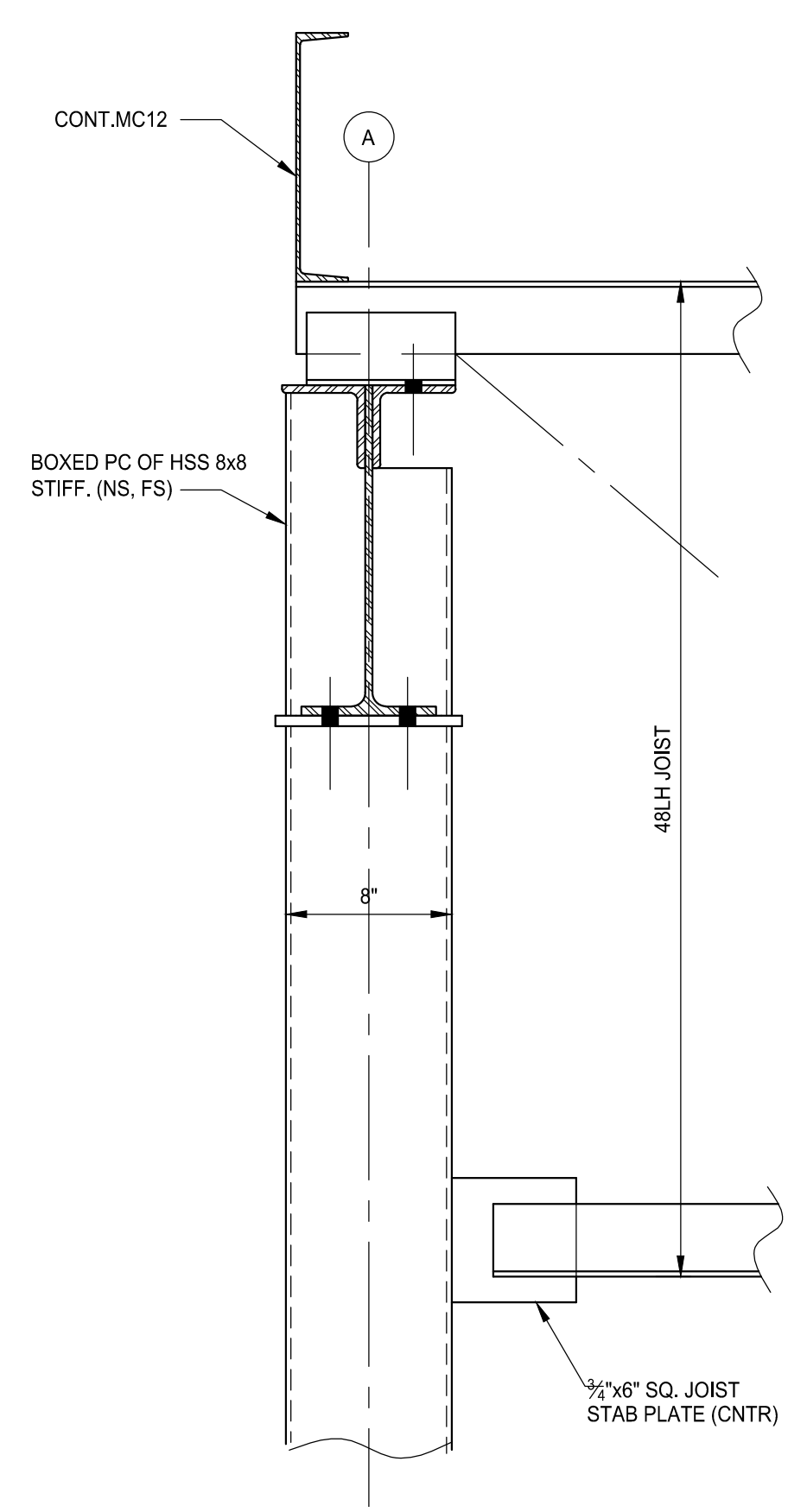
4 SECTION
SCALE: 1 1/2" = 1'-0"



5 SECTION
SCALE: 1 1/2" = 1'-0"



6 SECTION
SCALE: 1 1/2" = 1'-0"



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



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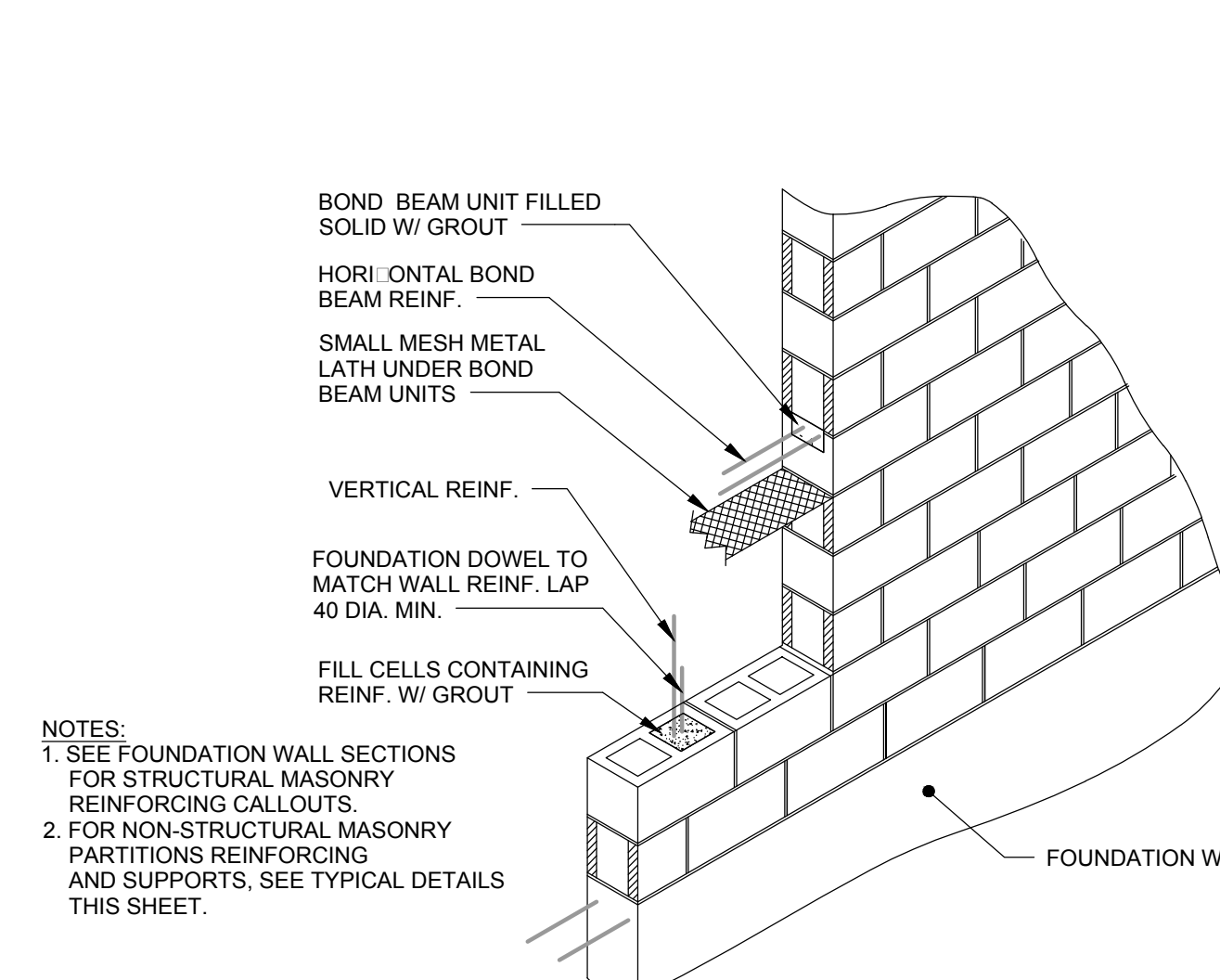
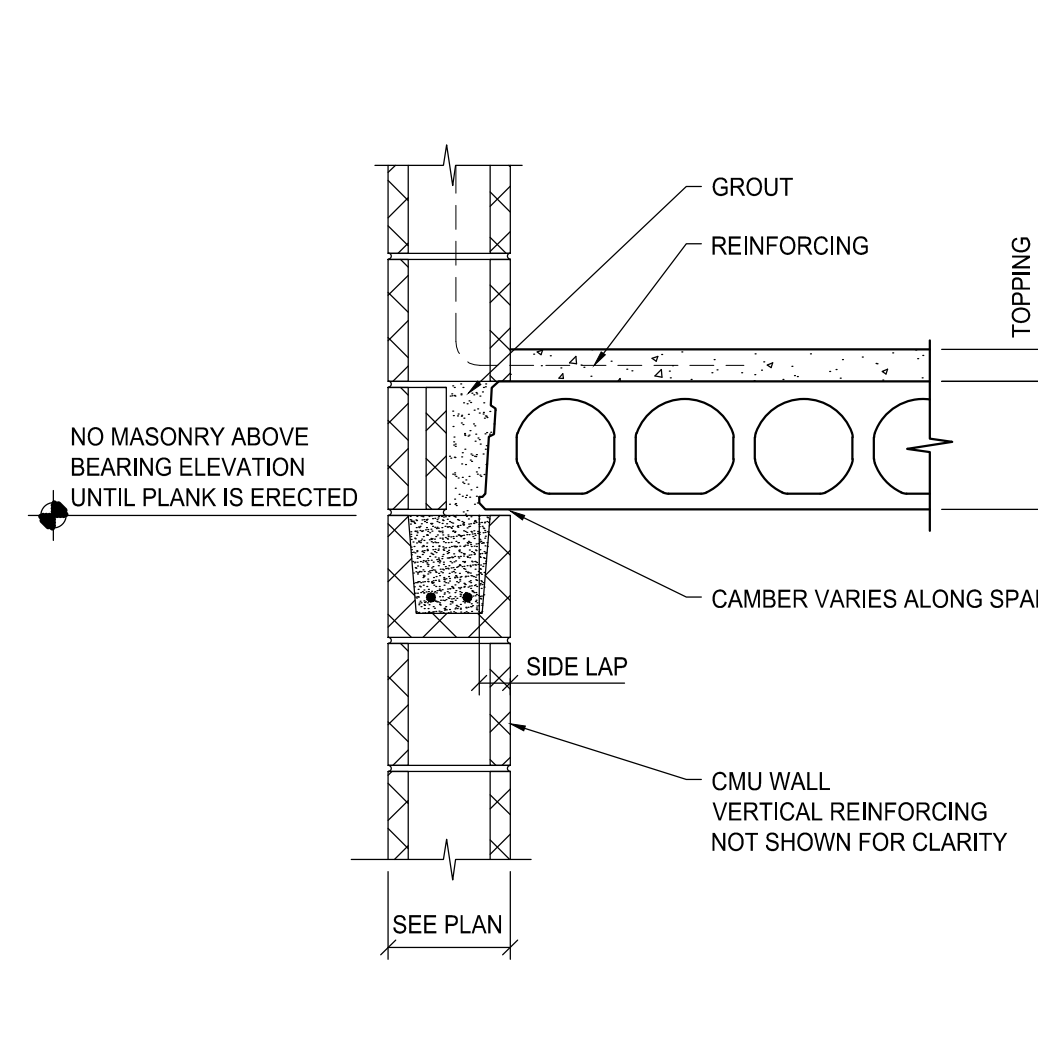
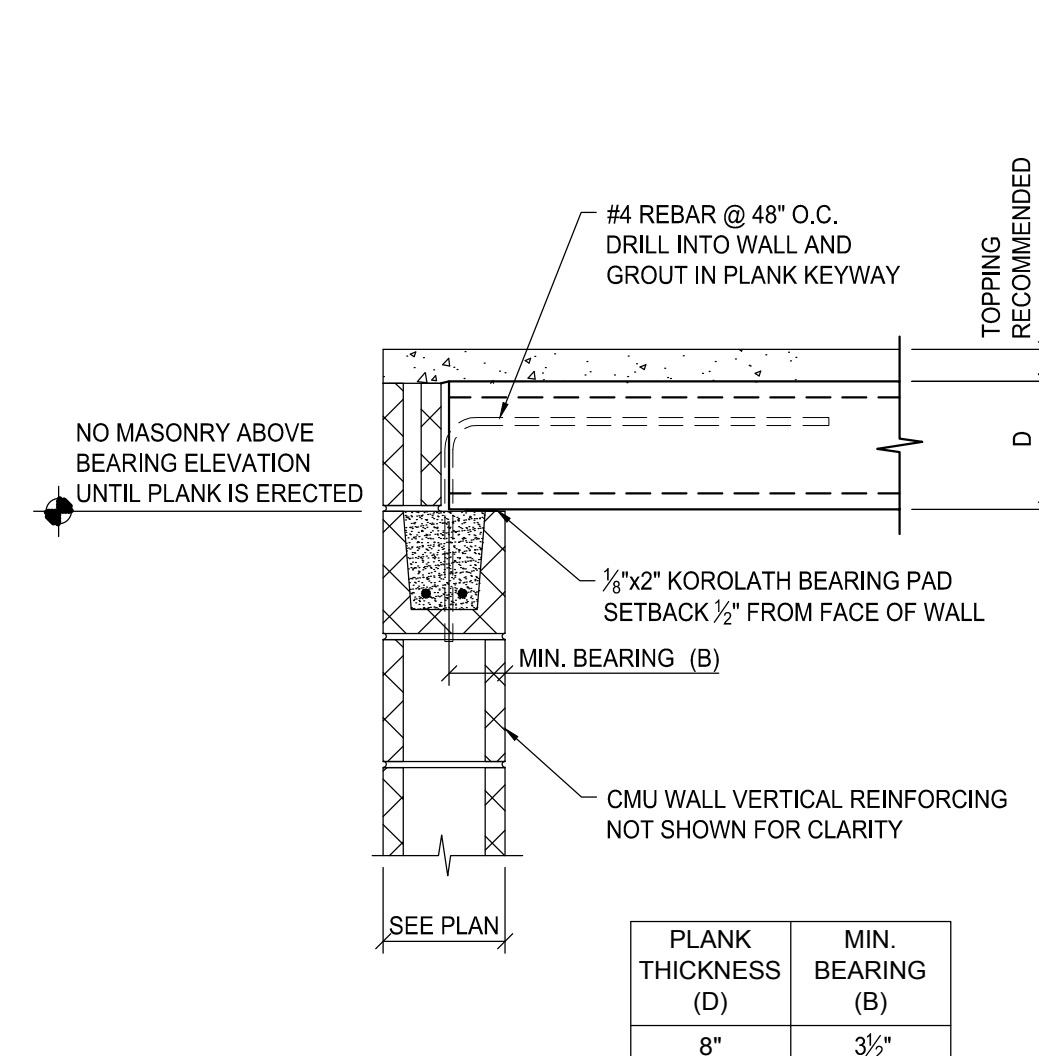
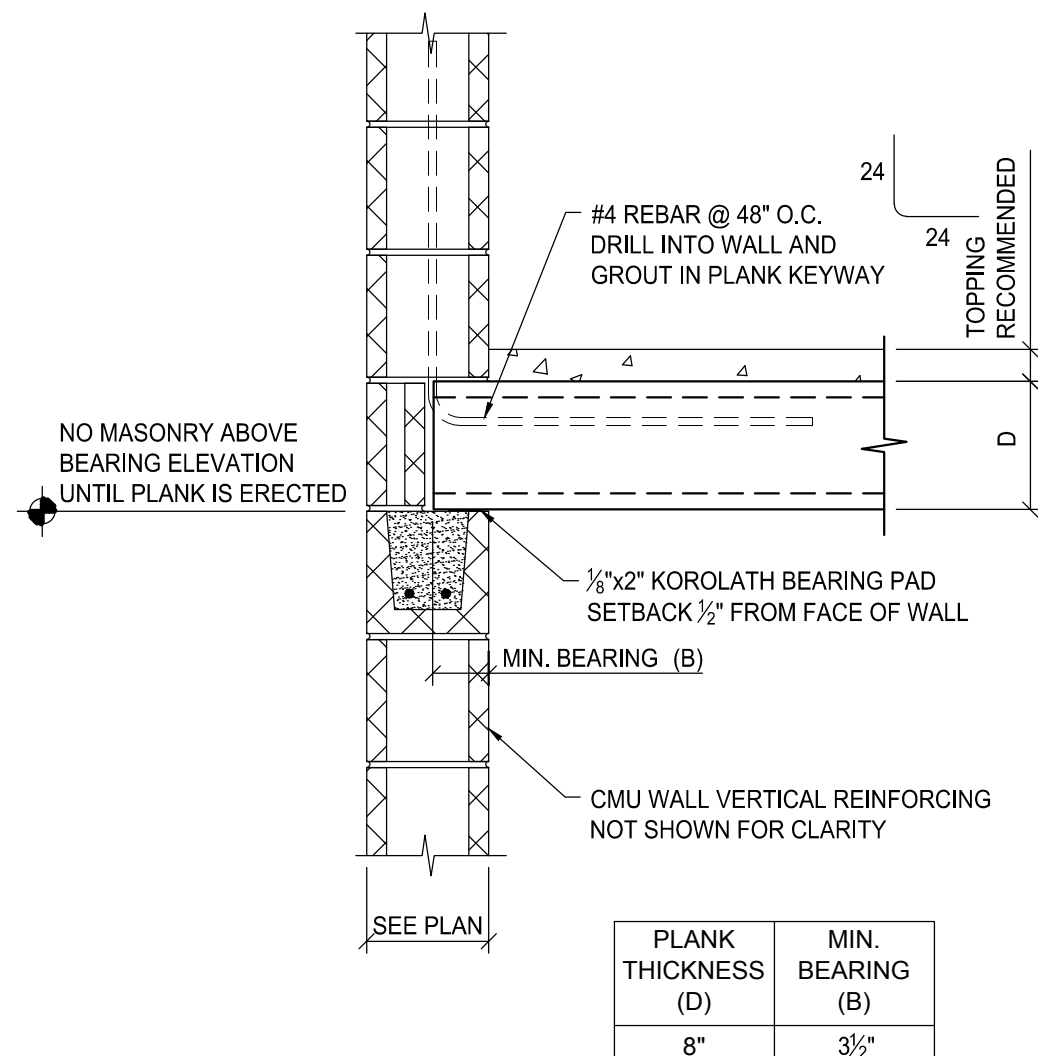
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Key Plan: No Scale



NOTES:
1. SEE FOUNDATION WALL SECTIONS FOR STRUCTURAL MASONRY REINFORCING CALLOUTS.
2. FOR NON-STRUCTURAL MASONRY PARTITIONS REINFORCING AND SUPPORTS, SEE TYPICAL DETAILS THIS SHEET.

PLANK BEARING ON CMU WALL - REBAR UP
SCALE: 1"=1'-0"

PLANK BEARING ON CMU WALL - REBAR DOWN
SCALE: 1"=1'-0"

PLANK SIDELAP AT CMU WALL
SCALE: 1"=1'-0"

TYPICAL REINFORCED HOLLOW MASONRY

PLANK THICKNESS (D)	MIN. BEARING (B)
8"	3 1/2"

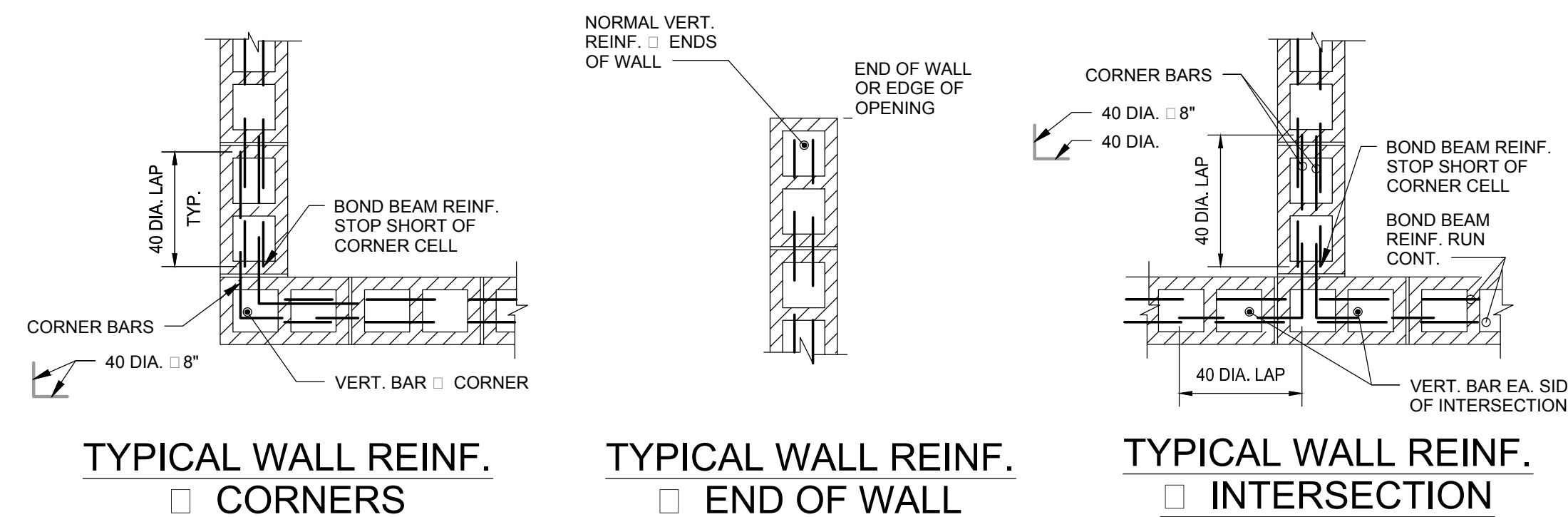
PLANK THICKNESS (D)	MIN. BEARING (B)
8"	3 1/2"

Client:
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Project:
**BIRMINGHAM
FIRE STATION No. 2**

1600 WEST MAPLE
BIRMINGHAM, MI 48009

Seal:

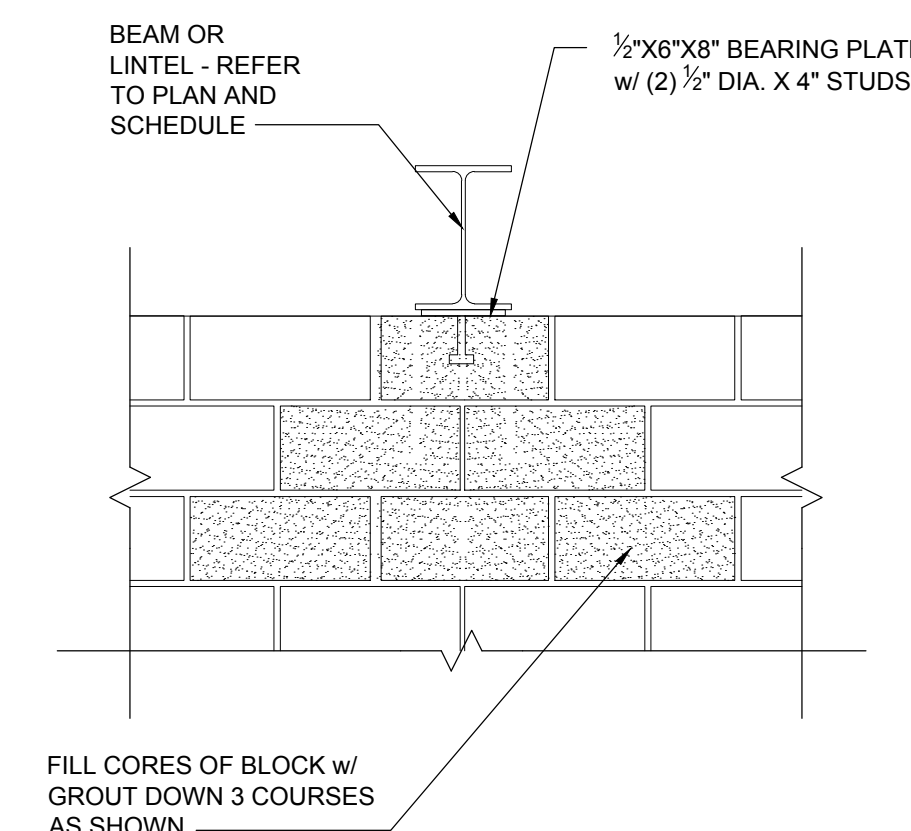
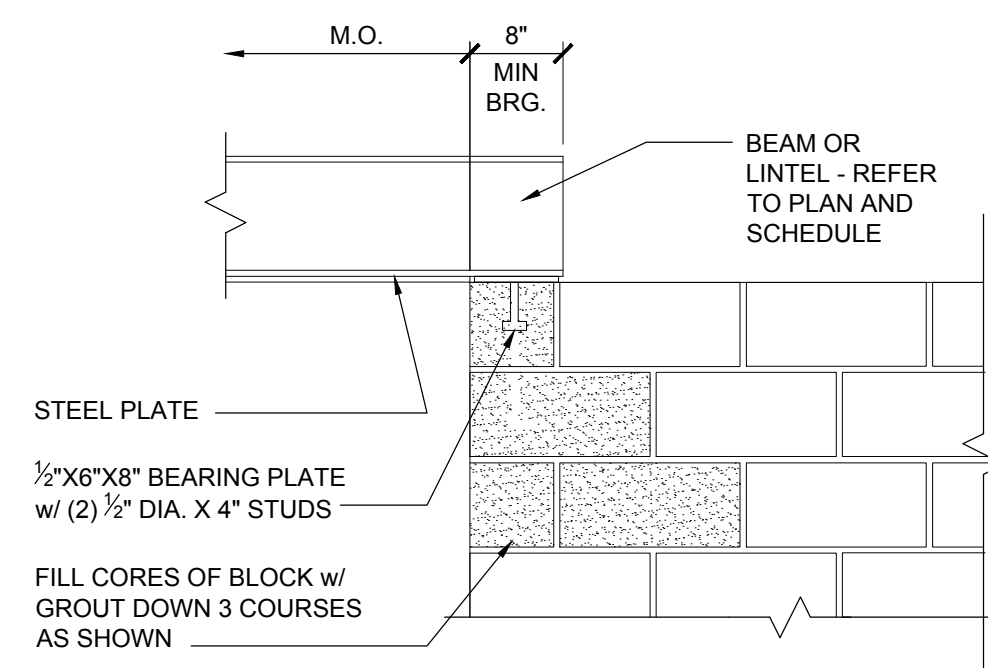


TYPICAL WALL REINF. CORNERS

TYPICAL WALL REINF. END OF WALL

TYPICAL WALL REINF. INTERSECTION

NOTES:
1. HOOK ALL REINF. THAT CANNOT BE EXTENDED.
2. GROUT ALL CELLS CONTAINING REINF., ANCHOR BOLTS OR OTHER EMBEDDED ITEMS.
3. TYPICAL REINF. SHOWN. USE MORE IF REQ'D. BY SPECIAL DETAIL.



Date: 07/29/16 Issued For: FINAL REVIEW
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Drawn: C. JOHNSON
Checked: S. PETERSON
Approved: S. PETERSON

Sheet Title:
**TYPICAL
MASONRY DETAILS**

Project Number: 15566

Sheet Number: **S-901**

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Novi, Michigan 48374
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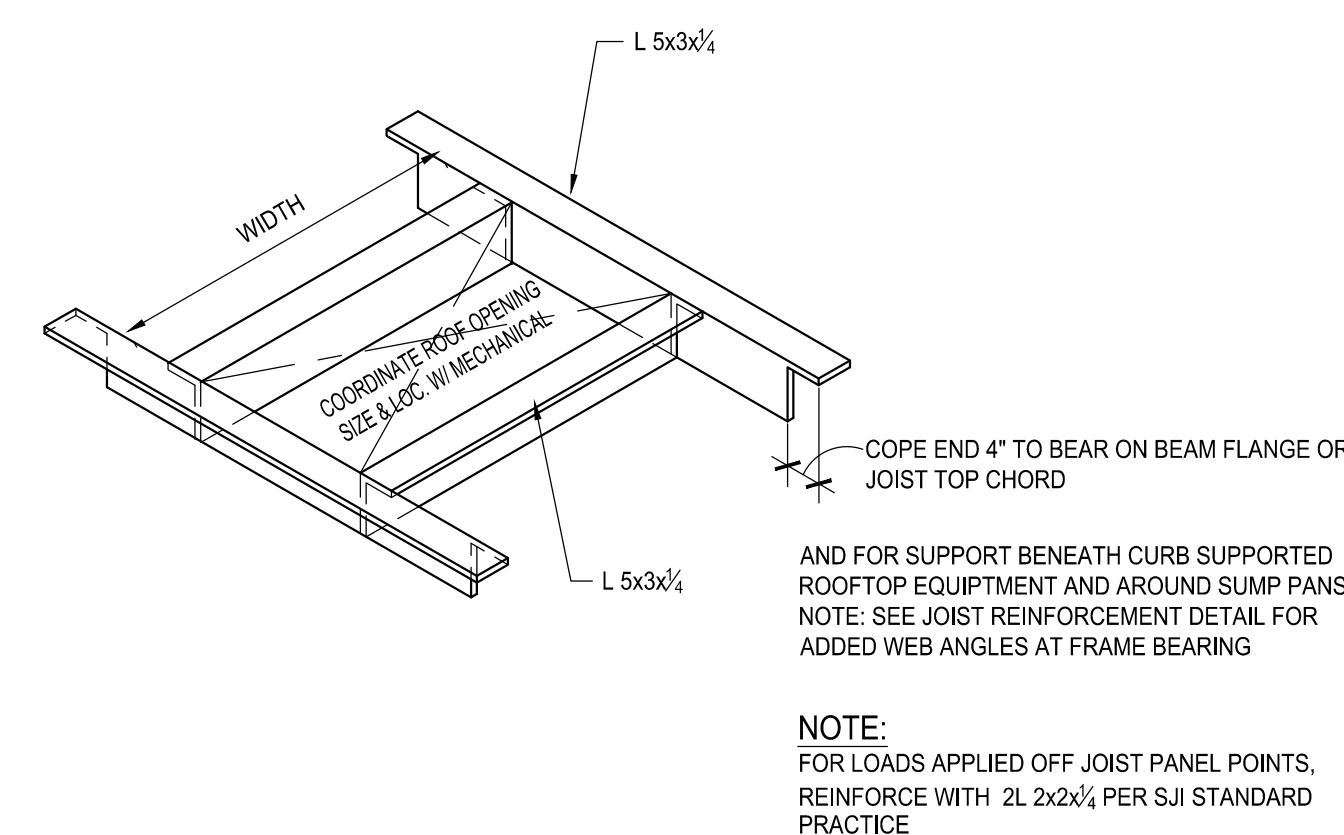
Drawn: C. JOHNSON
Checked: M. EAGEN
Approved: S. PETERSON

Sheet Title:
**BASE PLATE
DETAILS**

Project Number: 15566

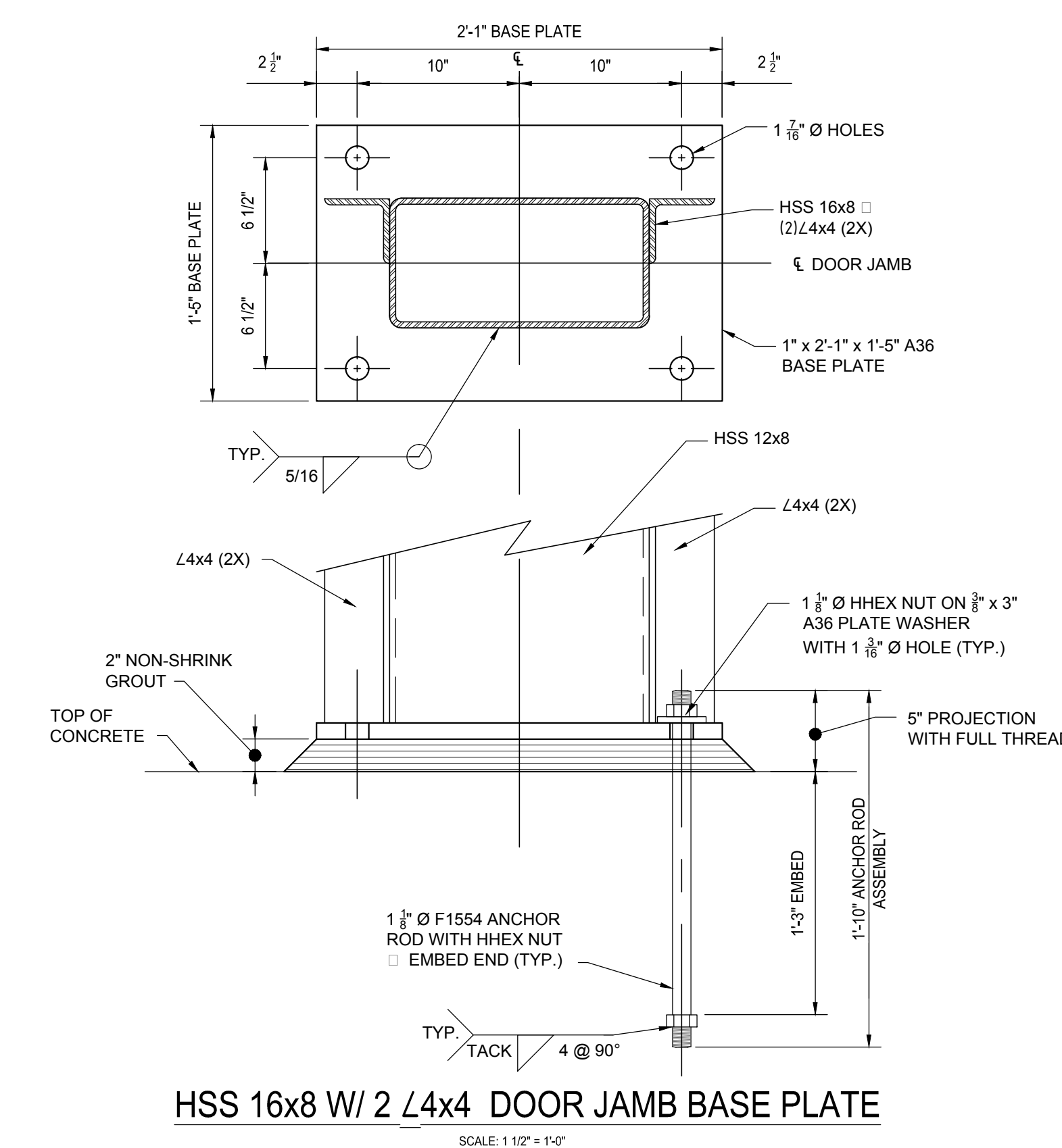
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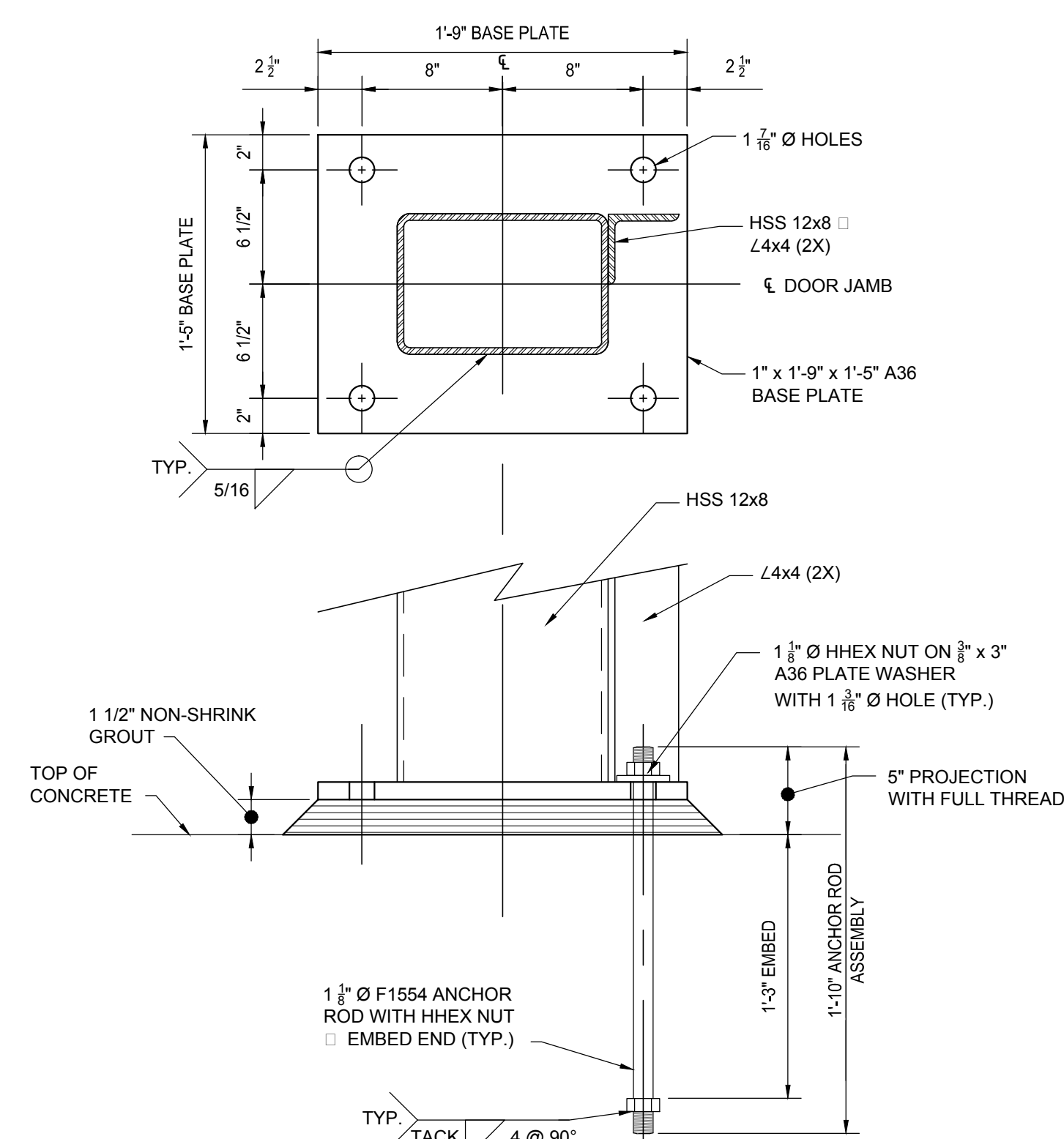
**TYPICAL ANGLE FRAME FOR
MECHANICAL OPENINGS IN ROOF**

SCALE: N.T.S.



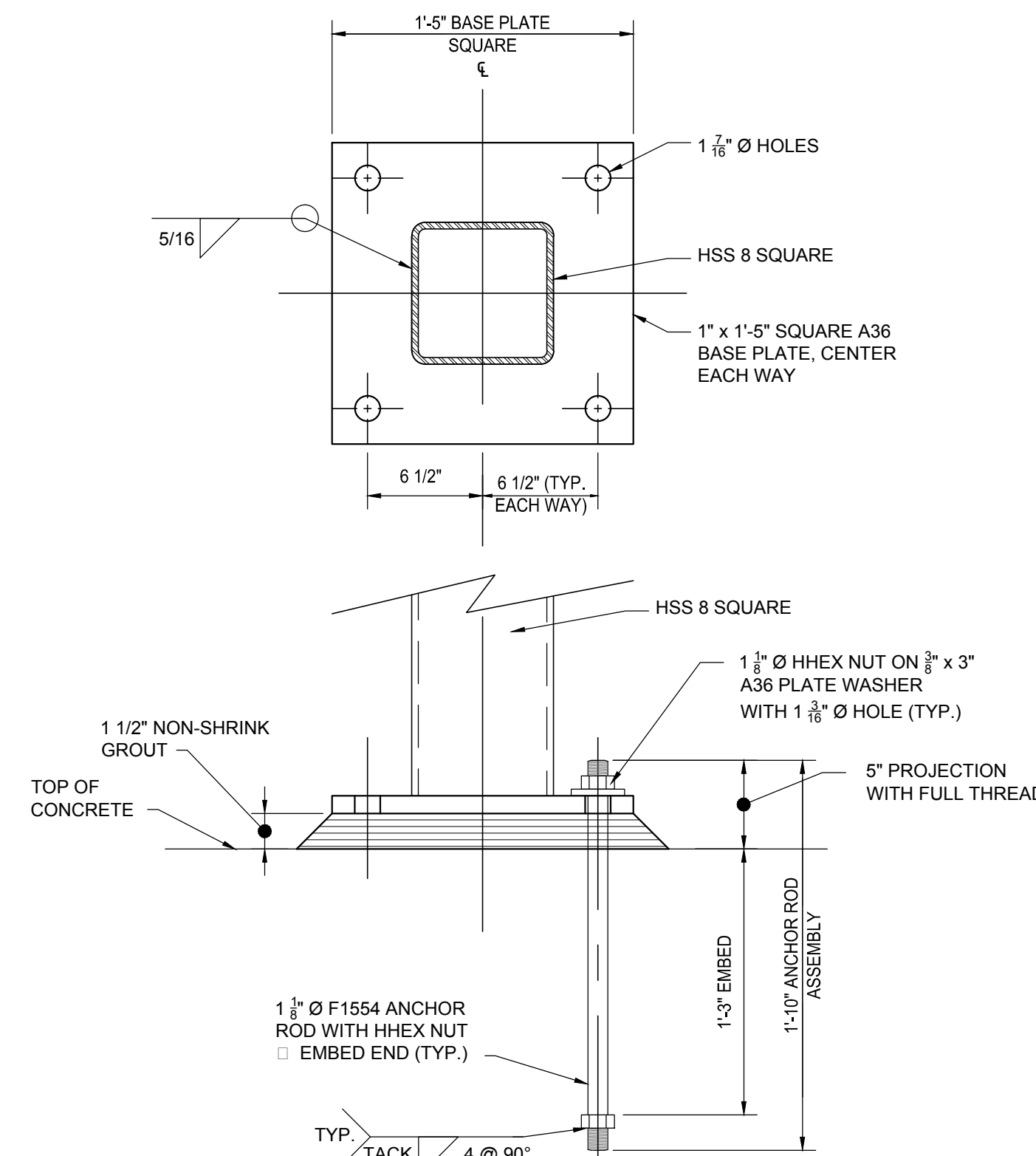
HSS 16x8 W/ 2 L4x4 DOOR JAMB BASE PLATE

SCALE: 1 1/2" = 1'-0"



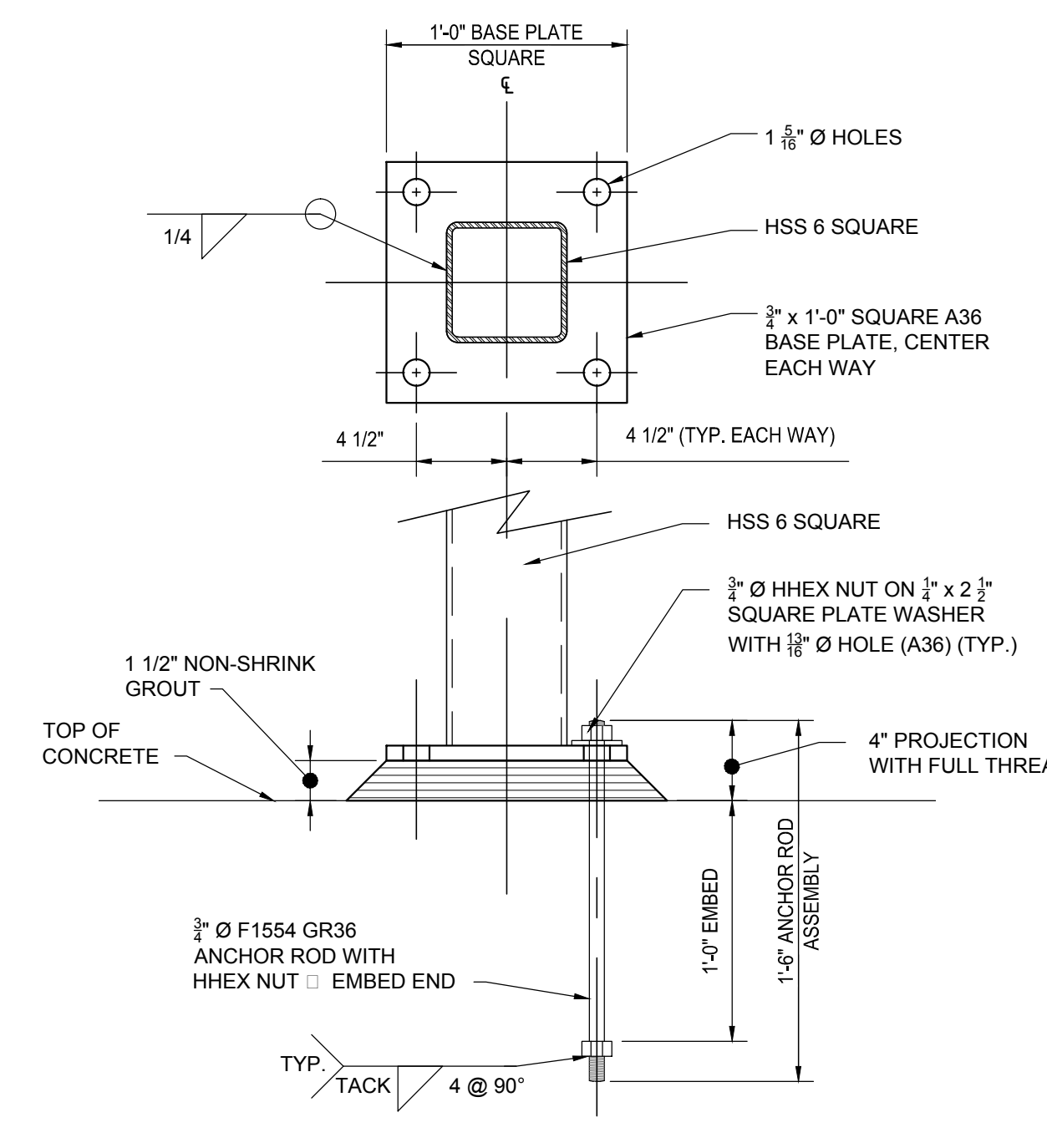
HSS 12x8 W/ L4x4 DOOR JAMB BASE PLATE

SCALE: 1 1/2" = 1'-0"



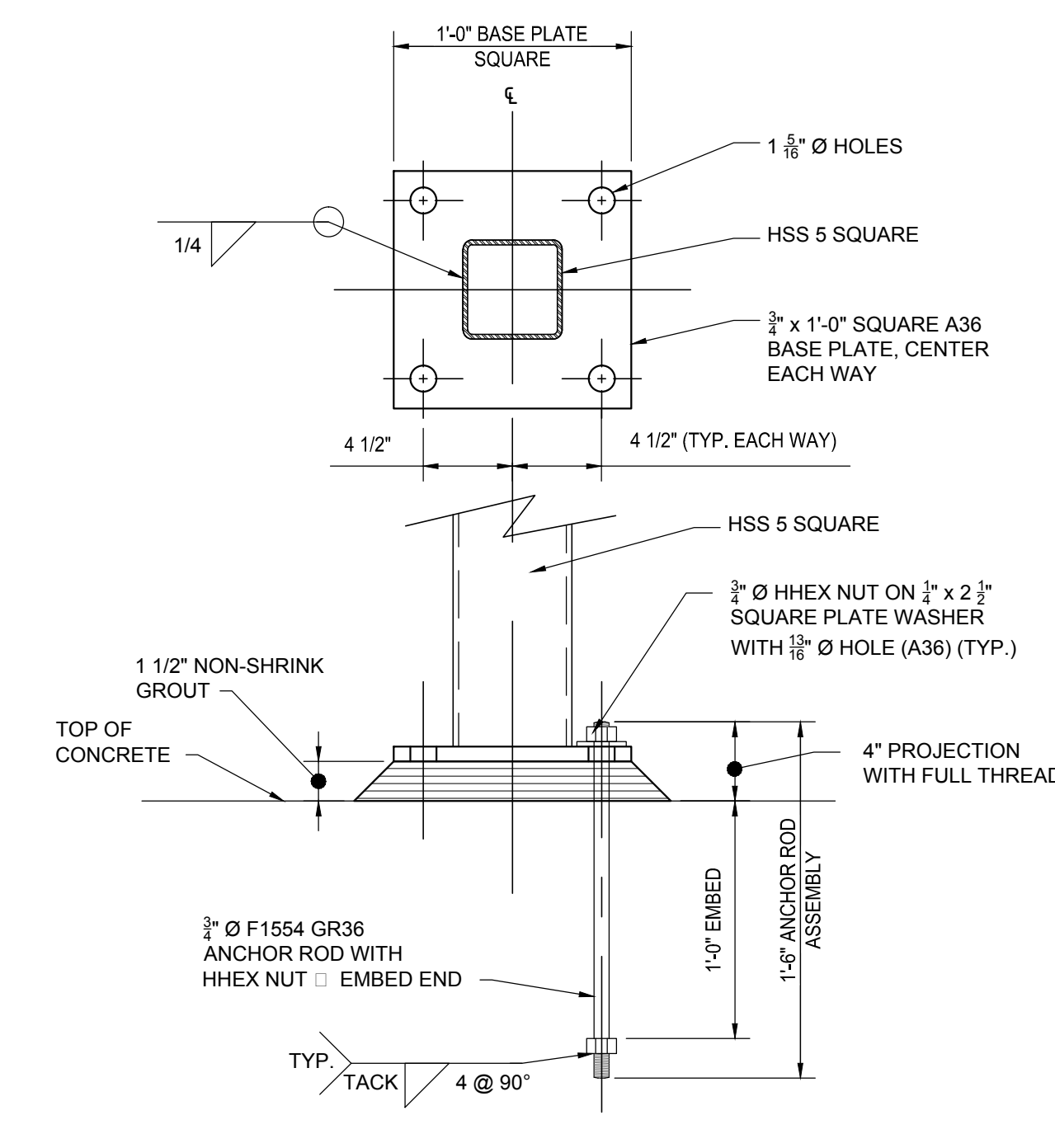
HSS 6 SQUARE BASE PLATE

SCALE: 1 1/2" = 1'-0"



HSS 6 SQUARE BASE PLATE

SCALE: 1 1/2" = 1'-0"



HSS 5 SQUARE BASE PLATE

SCALE: 1 1/2" = 1'-0"



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07/29/16	FINAL REVIEW
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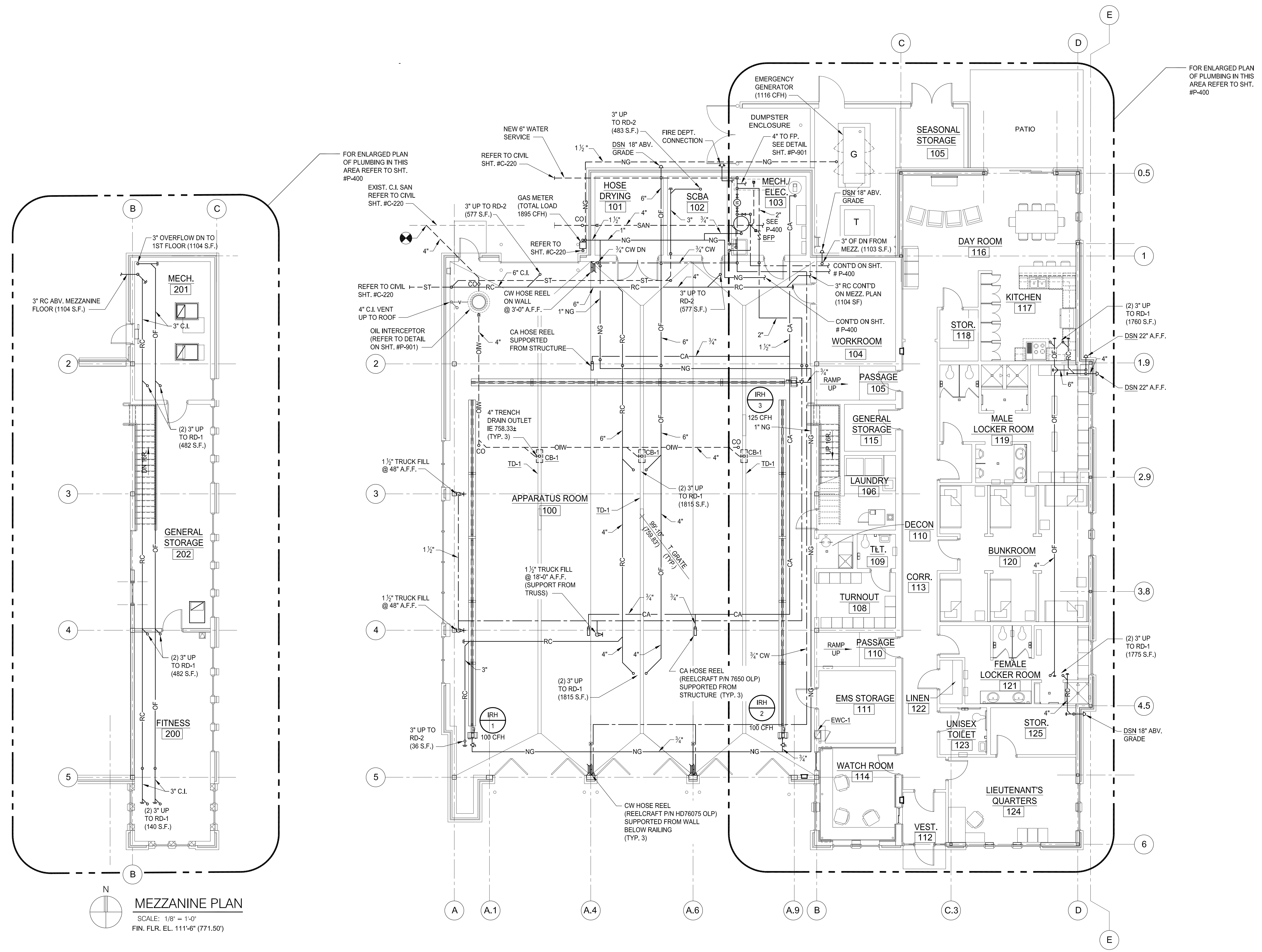
Drawn: R. McCARTHY
Checked: S. PETERSON
Approved: S. PETERSON

Sheet Title:
PLUMBING PLAN

Project Number: 15566

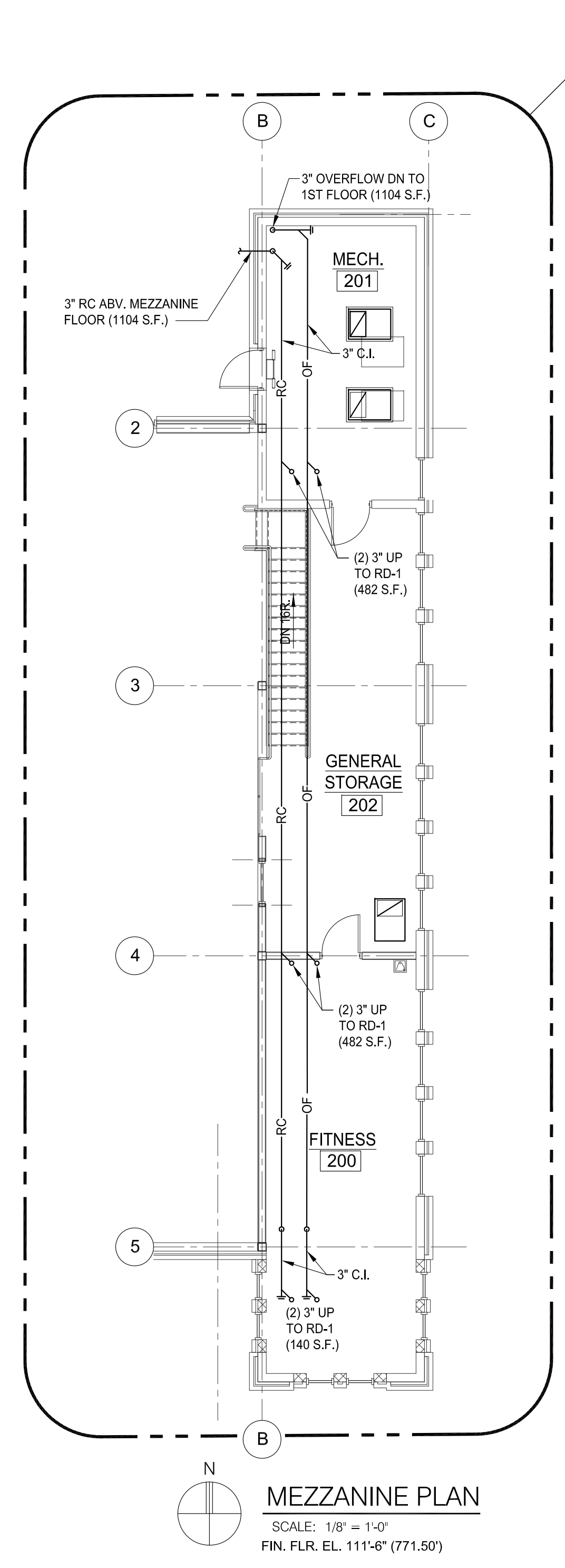
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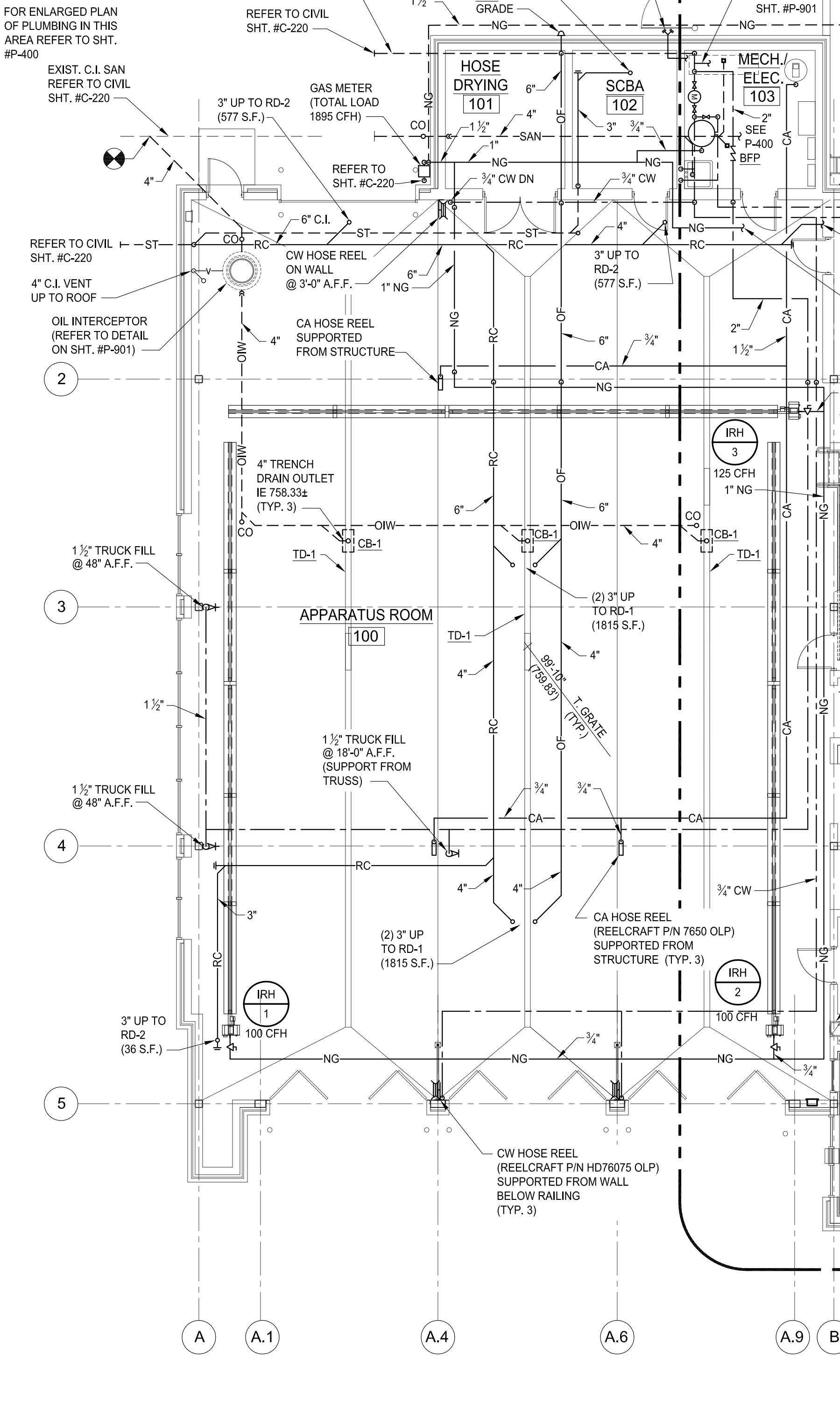


- LEGEND:**
- DOMESTIC COLD WATER PIPING
 - DOMESTIC HOT WATER PIPING
 - HWR DOMESTIC HOT WATER RETURN PIPING
 - SAN UNDERGROUND/UNDERSLAB SANITARY PIPING
 - RC RAIN CONDUCTOR PIPING (ABOVE GROUND)
 - ST STORM PIPING (UNDERGROUND)
 - OF OVERFLOW DRAIN PIPING (ABOVE GROUND)
 - V VENT PIPING
 - CA COMPRESSED AIR PIPING
 - NG NATURAL GAS PIPING
 - OIW WASTE (DRAINAGE) TO OIL INTERCEPTOR
 - PIPE UP
 - PIPE DOWN
 - || CLEANOUT
 - POINT OF NEW CONNECTION (NEW TO EXISTING)
 - ⊕ THERMOSTAT
 - ⊕ HUMIDISTAT

- ABBREVIATIONS:**
- CA COMPRESSED AIR
 - C.I. CAST IRON
 - CW DOMESTIC COLD WATER
 - HW DOMESTIC HOT WATER
 - DN DOWN
 - EXIST. EXISTING
 - CO FLOOR CLEAN OUT
 - IE INVERT ELEVATION
 - V VENT
 - VTR VENT THRU ROOF
 - W WASTE PIPE
 - AAV AIR ADMITTANCE VALVE
 - OF OVERFLOW
 - ABV. ABOVE
 - A.F.F. ABOVE FINISHED FLOOR
 - FP FIRE PROTECTION
 - CB CATCH BASIN
 - BFP BACK FLOW PREVENTER
 - WE WASHER EXTRACTOR
 - DSN DOWN SPOUT NOZZLE



MEZZANINE PLAN
SCALE: 1/8" = 1'-0"
FIN. FLR. EL. 111'-6" (771.50')



PIPING PLAN
SCALE: 1/8" = 1'-0"
APPARATUS AREA
FIN. FLR. EL. 100'-0" (760.00')

PIPING PLAN
SCALE: 1/8" = 1'-0"
LIVING QUARTERS
FIN. FLR. EL. 100'-6" (760.50')

FIRE PROTECTION NOTE
THE ENTIRE BUILDING SHALL BE PROTECTED BY A SYSTEM OF AUTOMATIC SPRINKLERS DESIGNED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF N.F.P.A.-13. THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR THE ENTIRE SYSTEM DESIGN, APPROVAL AND INSTALLATION AND SHALL SUBMIT TO THE ARCHITECT/ENGINEER FOR RECORD DESIGN DRAWINGS AND HYDRAULIC CALCULATIONS BEARING THE APPROVAL OF THE LOCAL FIRE AUTHORITY.



Sidock Group
ARCHITECTS-ENGINEERS-CONSULTANTS

Corporate Headquarters
45650 Grand River Avenue
Novi, Michigan 48374
Ph: (248)349-4500 • Fax: (248)349-1429

Design Studio
43155 Main Street, Suite 2306
Novi, Michigan 48375

Novi • Wyandotte • Muskegon
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Key Plan: No Scale

Client:
CITY OF BIRMINGHAM

Project:
**BIRMINGHAM
FIRE STATION No. 2**

1600 WEST MAPLE
BIRMINGHAM, MI 48009

Seal:

Date	Issued For
05/11/16	ESTIMATE
07/19/16	95% REVIEW
07/29/16	FINAL REVIEW
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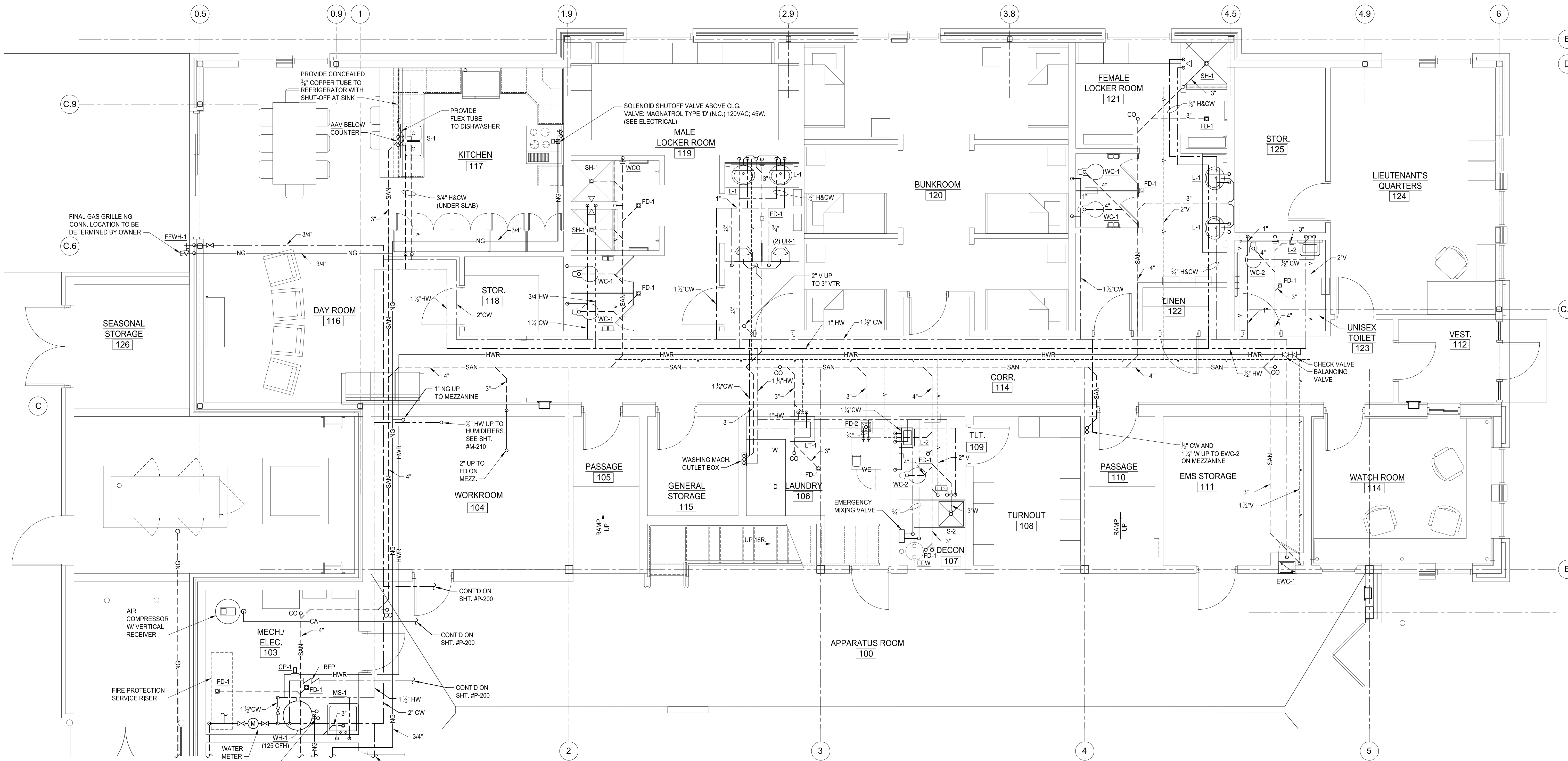
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Approved: S. PETERSON

Sheet Title:
**ENLARGED
PLUMBING PLANS**

Project Number: **15566**

Sheet Number: **P-400**

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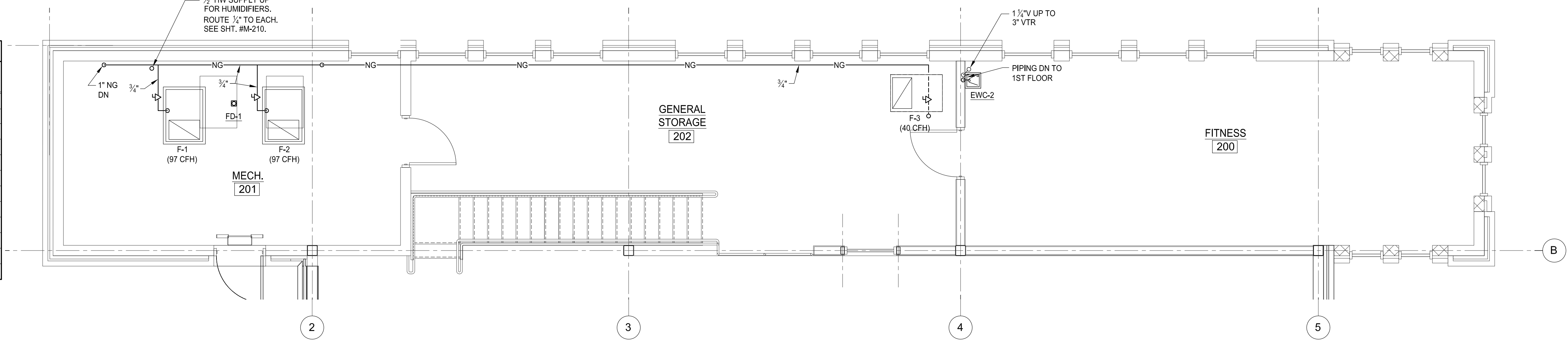


ENLARGED PLUMBING PLAN
SCALE: 1/4" = 1'-0"

DRAWING TAG	DESCRIPTION	OVERHEAD RUNOUT PIPE SIZE		PIPE SIZE IN WALL			
		CW	HW	CW	HW	WASTE	VENT
WC-1, 2	B.F. FLOOR MTD. WATER CLOSET	1"	-	1"	-	4"	2"
L-1, 2	WALL HUNG LAVATORY	1/2"	1/2"	1/2"	1/2"	1 1/4"	1 1/4"
MS-1	MOP SINK	3/4"	3/4"	3/4"	3/4"	3"	-
EWC-1, -2	ELECTRIC WATER COOLER	1/2"	-	1/2"	-	1 1/4"	1 1/4"
FPWH	FREEZE-PROOF WALL HYDRANT	3/4"	-	1/2"	-	-	-
FD-1	FLOOR DRAIN	-	-	-	-	3"	-
FD-2	FLOOR SINK	-	-	-	-	3"	-
TD-1	TRENCH DRAIN	-	-	-	-	4"	-
LT-1	LAUNDRY TUB	3/4"	3/4"	1/2"	1/2"	2"	1 1/4"
S-1	2-COMPARTMENT KITCHEN SINK	3/4"	3/4"	1/2"	1/2"	2"	1 1/4"
S-2	SCULLERY SINK	3/4"	3/4"	1/2"	1/2"	2"	1 1/4"

OTHERS AS INDICATED IN THE CONTRACT DOCUMENTS.

- PLUMBING PLAN NOTES:**
- ALL FLOOR DRAINS SHALL BE CONNECTED TO A TRAP PRIMER.
 - SLOPE ALL STORM AND SANITARY PIPING AT 1/8" PER 1'-0".
 - COORDINATE ALL PIPING LOCATED IN WALLS AND ABOVE CEILINGS WITH OTHER TRADES.



ENLARGED MEZZANINE PLUMBING PLAN
SCALE: 1/4" = 1'-0"



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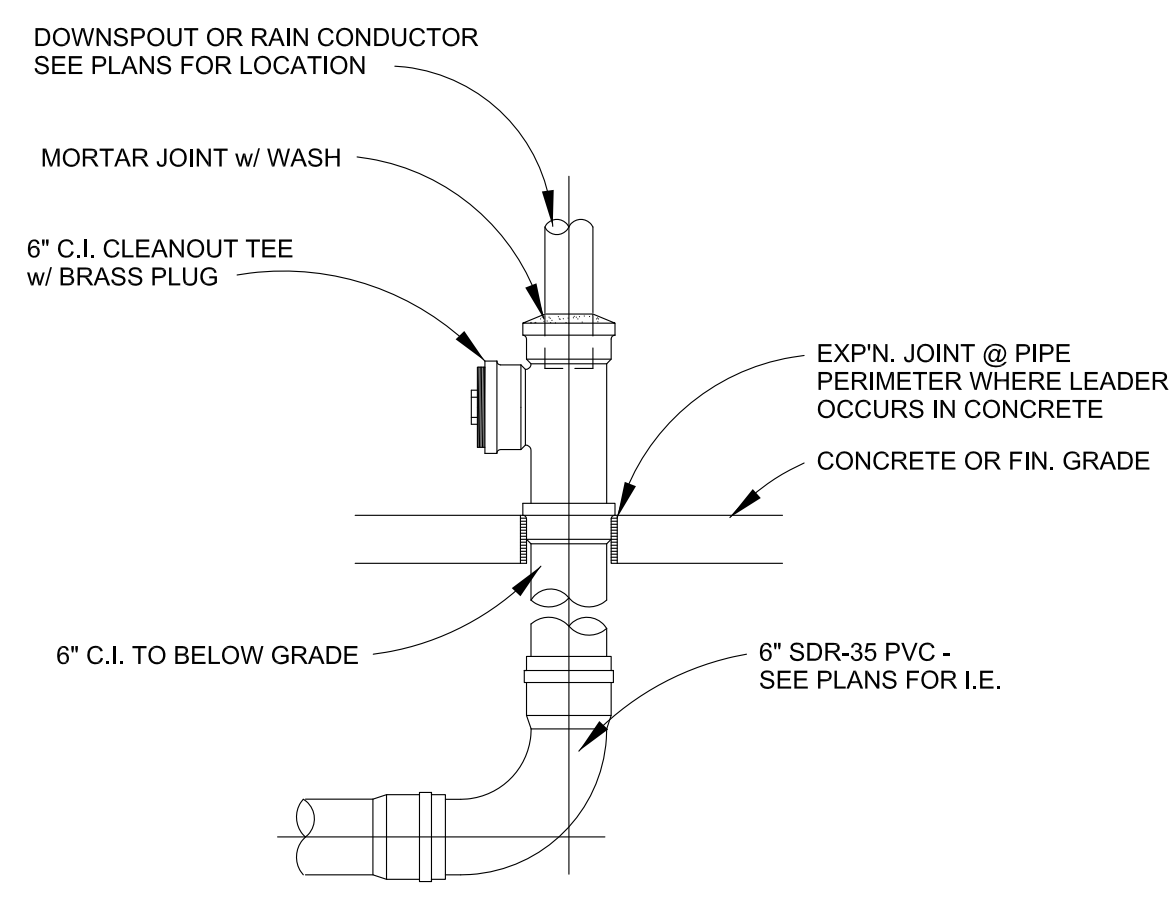
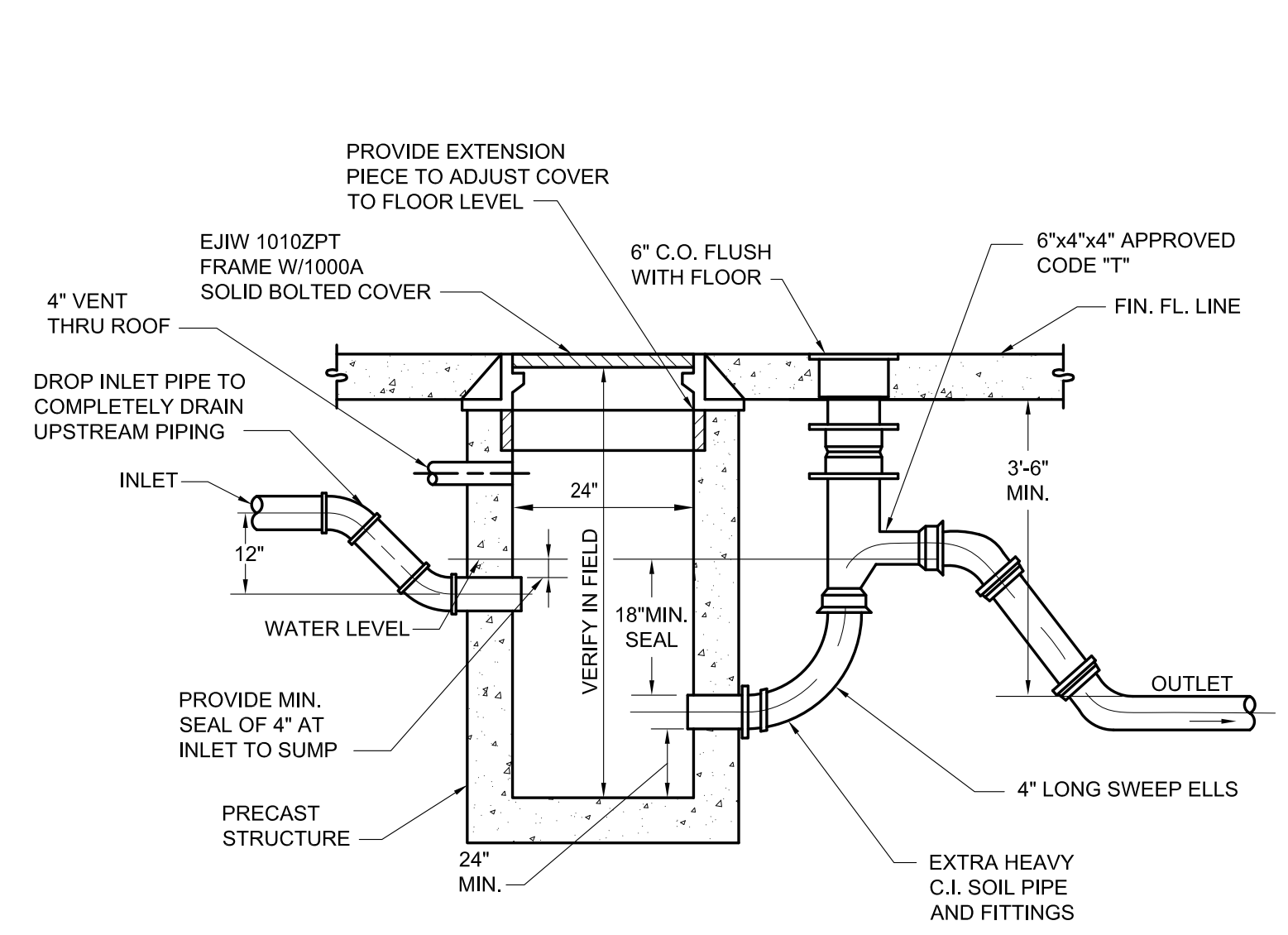
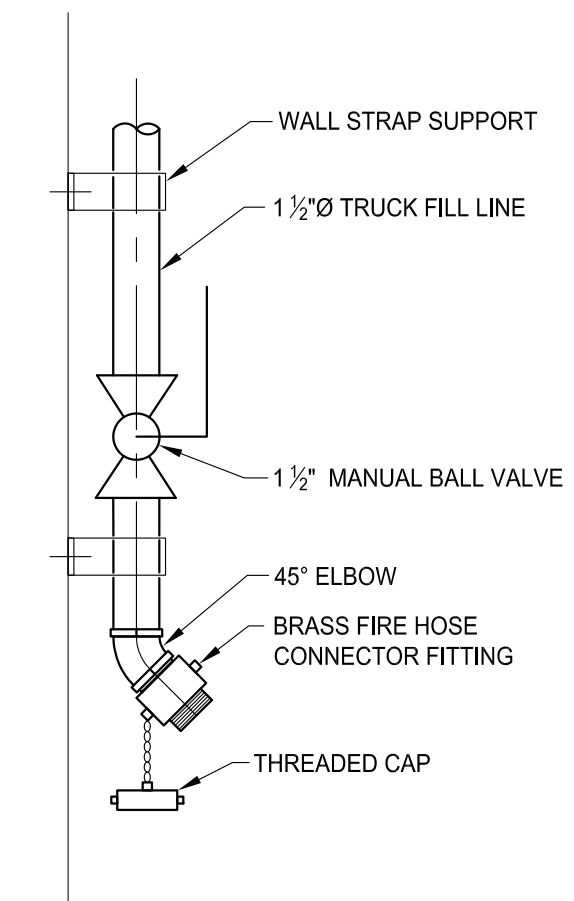
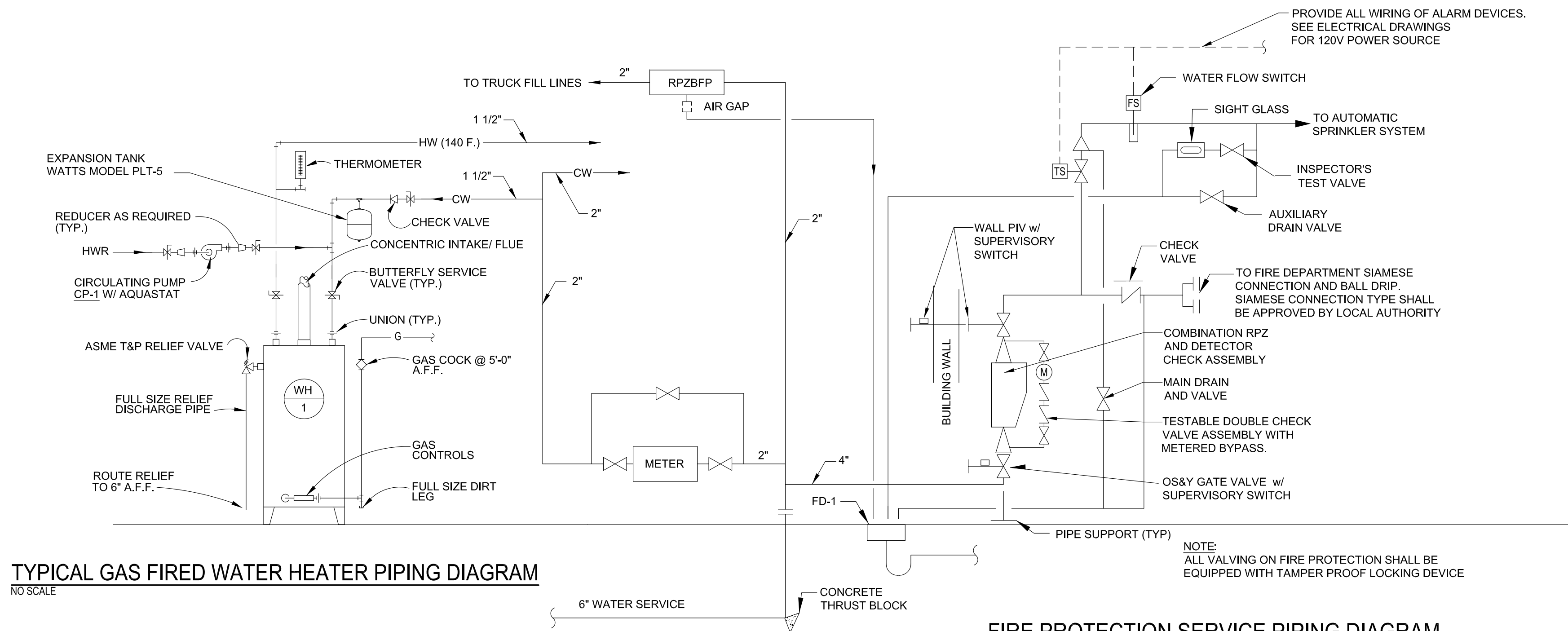
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Novi, Michigan 48374
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Novi, Michigan 48375

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Project:
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FIRE STATION No. 2

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Checked: C. MIRANDA
Approved: S. PETERSON

Sheet Title:
PIPING DETAILS

Project Number: 15566

Sheet Number: P-901

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Corporate Headquarters
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Novi, Michigan 48374
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Drawn: K. GILSON
Checked: S. PETERSON
Approved: S. PETERSON

Sheet Title:
**FURNACE
CONTROL
DIAGRAMS**

Project Number: 15566

Sheet Number: **M-910**

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SEQUENCE OF OPERATIONS
F-1/ACU-1 & F-2/ACU-2

BUILDING AUTOMATION SYSTEM INTERFACE:

THE BUILDING AUTOMATION SYSTEM (BAS) SHALL SEND THE CONTROLLER OCCUPIED BYPASS, PRE-COOL, OCCUPIED / UNOCCUPIED, HEAT / COOL MODES AND OUTSIDE AIR FLOW SETPOINT. IF A BAS IS NOT PRESENT, OR COMMUNICATION IS LOST WITH THE BAS THE CONTROLLER SHALL OPERATE USING DEFAULT MODES AND SETPOINTS.

OCCUPIED MODE:

DURING OCCUPIED PERIODS, THE SUPPLY FAN SHALL RUN CONTINUOUSLY. THE GAS HEATING AND DX COOLING SHALL STAGE TO MAINTAIN THE OCCUPIED SPACE TEMPERATURE SETPOINT.

UNOCCUPIED MODE:

WHEN THE SPACE TEMPERATURE IS BELOW THE UNOCCUPIED HEATING SETPOINT OF 60.0 DEG. F (ADJ.) THE SUPPLY FAN SHALL START AND THE GAS HEATING SHALL BE ENABLED. WHEN THE SPACE TEMPERATURE RISES ABOVE THE UNOCCUPIED HEATING SETPOINT OF 60.0 DEG. F (ADJ.) PLUS THE UNOCCUPIED DIFFERENTIAL OF 4.0 DEG. F (ADJ.) THE SUPPLY FAN SHALL STOP AND THE GAS HEATING SHALL BE DISABLED.

WHEN THE SPACE TEMPERATURE IS ABOVE THE UNOCCUPIED COOLING SETPOINT OF 85.0 DEG. F (ADJ.) THE SUPPLY FAN SHALL START AND THE DX COOLING SHALL BE ENABLED. WHEN THE SPACE TEMPERATURE FALLS BELOW THE UNOCCUPIED COOLING SETPOINT OF 85.0 DEG. F (ADJ.) MINUS THE UNOCCUPIED DIFFERENTIAL OF 4.0 DEG. F (ADJ.) THE SUPPLY FAN SHALL STOP, THE DX COOLING SHALL BE DISABLED.

OPTIMAL START:

THE BAS SHALL MONITOR THE SCHEDULED OCCUPIED TIME, OCCUPIED SPACE SETPOINTS AND SPACE TEMPERATURE TO CALCULATE WHEN THE OPTIMAL START OCCURS.

MORNING WARM-UP MODE:

DURING OPTIMAL START, IF THE SPACE TEMPERATURE IS BELOW THE OCCUPIED HEATING SETPOINT A MORNING WARM-UP MODE SHALL BE ACTIVATED. WHEN MORNING WARM-UP IS INITIATED THE UNIT SHALL ENABLE THE HEATING AND SUPPLY FAN. WHEN THE SPACE TEMPERATURE REACHES THE OCCUPIED HEATING SETPOINT (ADJ.), THE UNIT SHALL TRANSITION TO THE OCCUPIED MODE.

PRE-COOL MODE:

DURING OPTIMAL START, IF THE SPACE TEMPERATURE IS ABOVE THE OCCUPIED COOLING SETPOINT, PRE-COOL MODE SHALL BE ACTIVATED. WHEN PRE-COOL IS INITIATED THE UNIT SHALL ENABLE THE FAN AND COOLING. WHEN THE SPACE TEMPERATURE REACHES OCCUPIED COOLING SETPOINT (ADJ.), THE UNIT SHALL TRANSITION TO THE OCCUPIED MODE.

OPTIMAL STOP:

THE BAS SHALL MONITOR THE SCHEDULED UNOCCUPIED TIME, OCCUPIED SETPOINTS AND SPACE TEMPERATURE TO CALCULATE WHEN THE OPTIMAL STOP OCCURS. WHEN THE OPTIMAL STOP MODE IS ACTIVE THE UNIT CONTROLLER SHALL MAINTAIN THE SPACE TEMPERATURE TO THE SPACE TEMPERATURE OFFSET SETPOINT.

OCCUPIED BYPASS:

THE BAS SHALL MONITOR THE STATUS OF THE "ON" AND "CANCEL" BUTTONS OF THE SPACE TEMPERATURE SENSOR. WHEN AN OCCUPIED BYPASS REQUEST IS RECEIVED FROM A SPACE SENSOR, THE UNIT SHALL TRANSITION FROM ITS CURRENT OCCUPANCY MODE TO OCCUPIED BYPASS MODE AND THE UNIT SHALL MAINTAIN THE SPACE TEMPERATURE TO THE OCCUPIED SETPOINTS (ADJ.).

COOLING MODE:

THE UNIT CONTROLLER SHALL USE SPACE TEMPERATURE AND SPACE TEMPERATURE SETPOINT TO DETERMINE WHEN TO STAGE THE COOLING. WHEN THE SPACE TEMPERATURE RISES ABOVE THE SETPOINT, THE UNIT CONTROLLER SHALL STAGE THE DX COOLING AS REQUIRED TO MAINTAIN THE SPACE TEMPERATURE SETPOINT. WHEN THE SPACE TEMPERATURE FALLS BELOW THE SETPOINT THE CONTROLLER SHALL DISABLE DX COOLING.

HEATING MODE:

THE UNIT CONTROLLER SHALL USE THE SPACE TEMPERATURE AND SPACE TEMPERATURE SETPOINT TO DETERMINE WHEN TO INITIATE REQUESTS FOR HEAT. WHEN THE SPACE TEMPERATURE DROPS BELOW THE SETPOINT, THE UNIT CONTROLLER SHALL STAGE THE GAS HEAT TO MAINTAIN THE SPACE TEMPERATURE SETPOINT. ONCE THE SPACE TEMPERATURE RISES ABOVE THE SETPOINT THE GAS HEAT SHALL BE DISABLED.

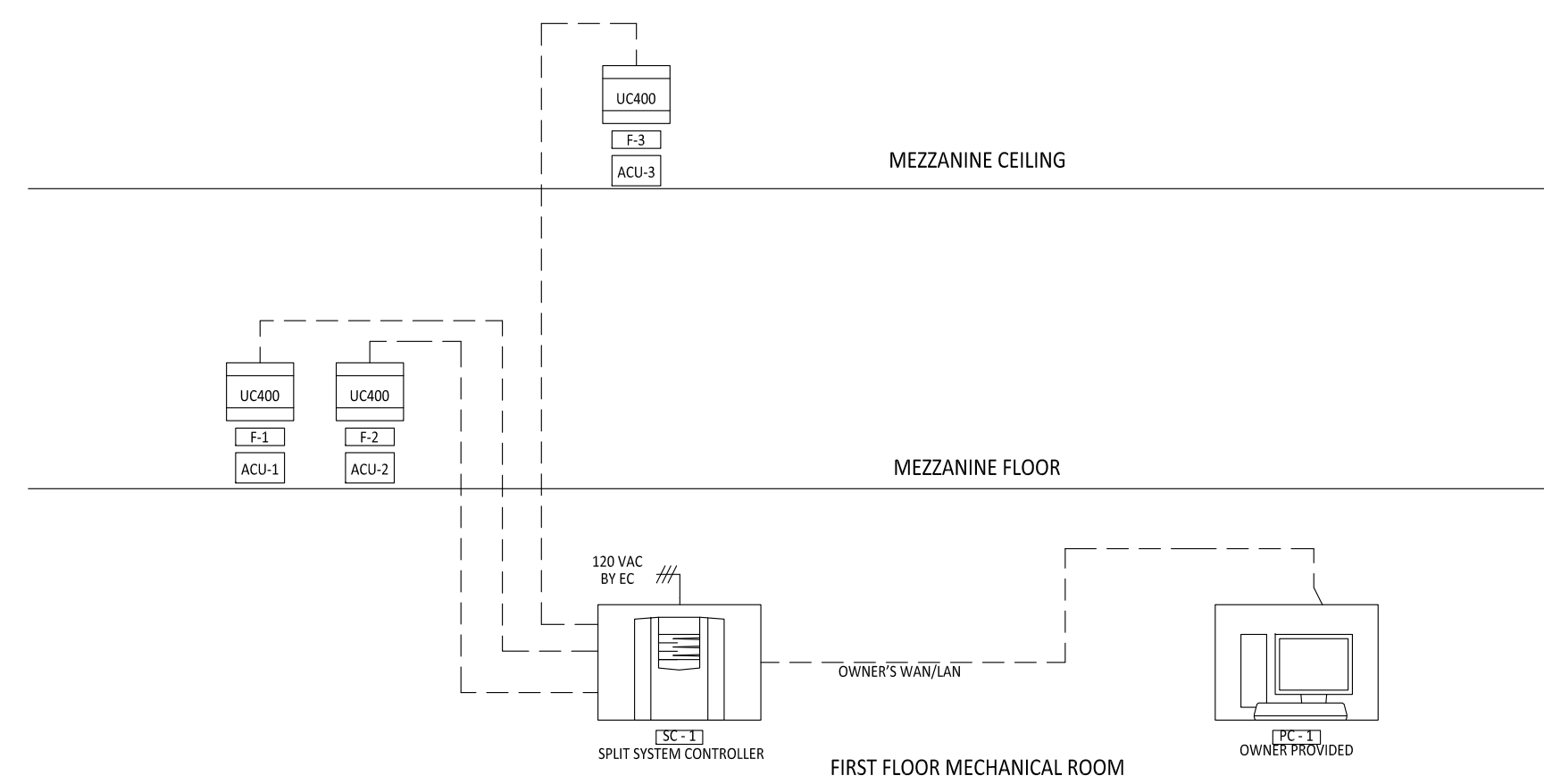
SUPPLY FAN:

THE SUPPLY FAN SHALL BE ENABLED WHILE IN THE OCCUPIED MODE AND CYCLED ON DURING THE UNOCCUPIED MODE.

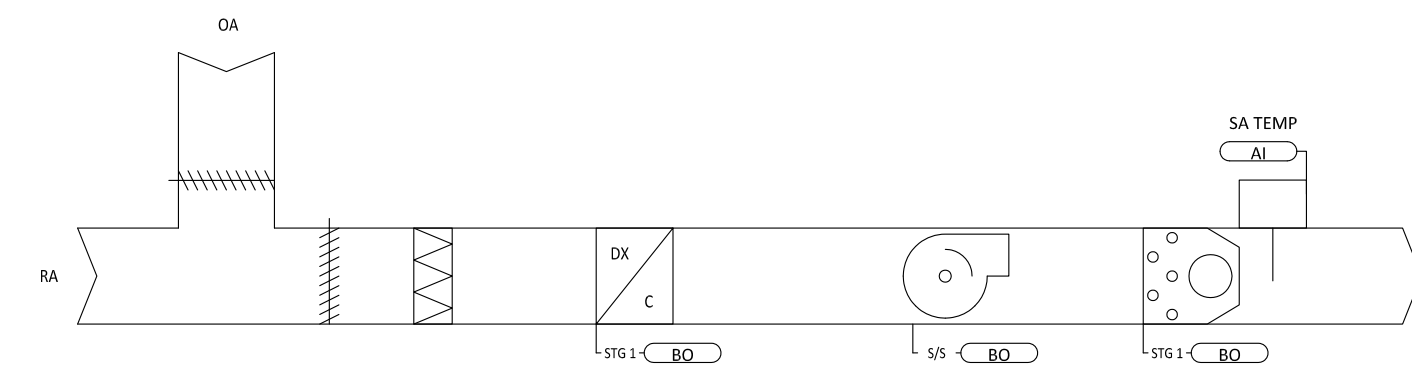
FILTER TIMER:

THE FAN-RUN TIME (HRS) SHALL BE COMPARED TO THE FILTER MAINTENANCE TIMER SETPOINT. ONCE THE SETPOINT IS REACHED A FILTER TIMER ALARM DIAGNOSTIC SHALL BE ANNUNCIATED AT THE BAS. WHEN THE DIAGNOSTIC IS CLEARED, THE FILTER-MAINTENANCE TIMER IS RESET TO ZERO, AND THE TIMER BEGINS ACCUMULATING FAN-RUN TIME AGAIN.

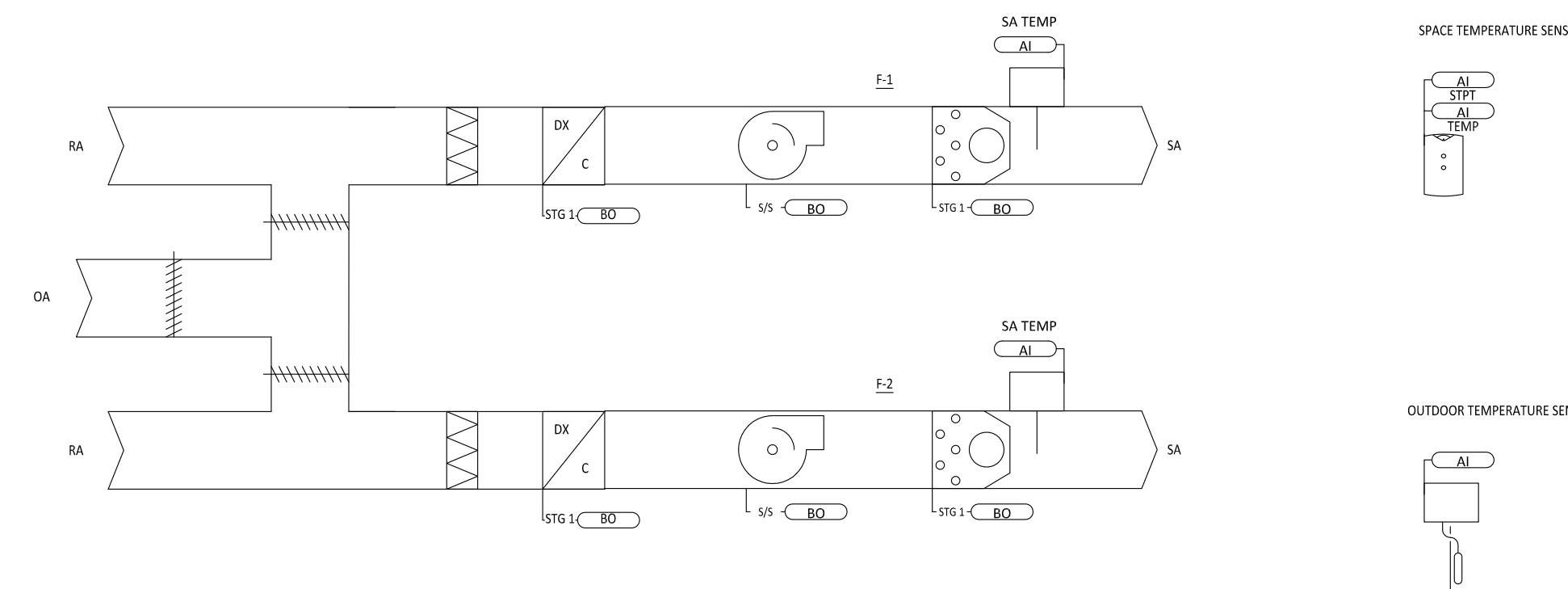
NOTE: SIMILAR SEQUENCE OF OPERATIONS FOR F-3/ACU-3.



SYSTEM CONTROL SCHEMATIC



FURNACE F-3 CONTROL DIAGRAM



FURNACE F-1 & F-2 CONTROL DIAGRAM

SPLIT SYSTEM UC400 - 1 FLOW - SYSTEM POINTS LIST																
CONTROLLER: UC400 2H2C	POINT TYPE						ALARMS									
	GRAPHIC	HARDWARE INPUT	HARDWARE OUTPUT	SOFTWARE POINT	HARDWARE INTERLOCK	WIRELESS	NETWORK	DEFAULT VALUE	HIGH ANALOG LIMIT	LOW ANALOG LIMIT	BINARY	LATCH DIAGNOSTIC	SERVO FAIL	COMMUNICATION FAIL	DIAGNOSTICS	NOTES
DISCHARGE AIR TEMPERATURE LOCAL	X	AI							X	X			X			
OUTSIDE AIR TEMPERATURE LOCAL	X	AI														
SPACE TEMPERATURE LOCAL	X	AI														
SPACE TEMPERATURE SETPOINT LOCAL	X	AI														
COMPRESSOR OUTPUT 1	X		BO													
HEATING OUTPUT 1	X		BO													
SUPPLY FAN START/STOP	X		BO													
OCCUPANCY			X													
OCCUPIED COOLING SETPOINT			X				74.0 deg. F									
OCCUPIED HEATING SETPOINT			X				70.0 deg. F									
OCCUPIED STANDBY COOLING SETPOINT			X				80.0 deg. F									
OCCUPIED STANDBY HEATING SETPOINT			X				65.0 deg. F									
UNOCCUPIED COOLING SETPOINT			X				85.0 deg. F									
UNOCCUPIED HEATING SETPOINT			X				60.0 deg. F									
OCCUPIED BYPASS TIMER			X				2.0 HRS									
HEATING MODE SETPOINT			X													
COOLING MODE SETPOINT			X													
SETPOINT OFFSET			X													
COMPRESSOR ENABLE			X				AUTO									
ECONOMIZER ENABLE			X				AUTO									
HEAT / COOL MODE			X				COOL									
FAN MODE COMMAND			X				ON									
APPLICATION MODE			X				AUTO									
EFFECTIVE OCCUPANCY	X															
EFFECTIVE HEAT / COOL MODE	X															
EFFECTIVE SPACE TEMPERATURE	X															
EFFECTIVE SPACE SETPOINT	X															
LOCAL SETPOINT	X															
HEAT OUTPUT	X		X													
COOL OUTPUT	X		X													
ALARM	X		X													
SPACE HEATING/COOLING SETPOINT	X		X													
MAINTENANCE REQUIRED	X		X				600 HRS									
BAS COMMUNICATION STATE	X		X													
GENERAL NOTES																



Sidock Group
ARCHITECTS-ENGINEERS-CONSULTANTS

Corporate Headquarters
45650 Grand River Avenue
Novi, Michigan 48374
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Checked: J. ORANCHAK
Approved: S. PETERSON

Sheet Title:
ELECTRICAL
SITE PLAN

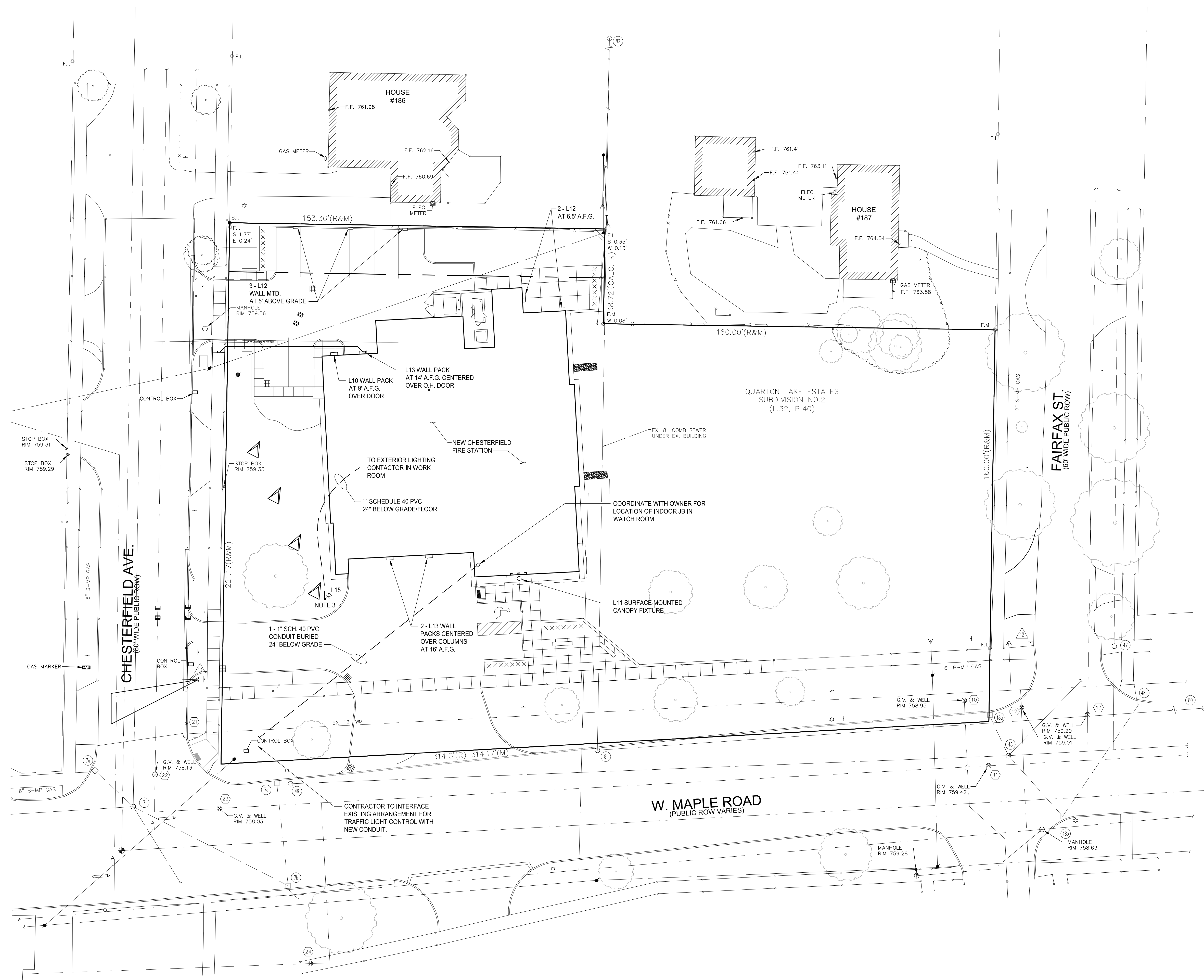
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ELECTRICAL SERVICE DEMO NOTES

1. DEMO ELECTRICAL SERVICE TO EXISTING BUILDING BEFORE DEMOLITION. PULL BACK SERVICE DROPLATERAL AND REMOVE/RELOCATE TRANSFORMER AS REQUIRED. COORDINATE WITH UTILITY.
2. PROVIDE NEW ELECTRICAL SERVICE PER DRAWINGS. COORDINATE WORK WITH UTILITY.
3. FLOODLIGHT FOR FLAG TO BE MOUNTED ON 12"x12"x3" CONCRETE PAD. PROVIDE A 1/2" NPT RGS STUB UP 4" ABOVE GRADE. TRANSITION TO 1" SCHEDULE 40 PVC FOR RUN BACK TO EXTERIOR LIGHTING CONTACTOR. PROVIDE 10' HORIZONTAL SET BACK FROM POLE.



ELECTRICAL SITE PLAN
SCALE: 1" = 20'



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Corporate Headquarters
46650 Grand River Avenue
Novi, Michigan 48374
Ph: (248)349-4500 • Fax: (248)349-1429

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Approved: J. ORANCHAK

Sheet Title:
**FLOOR PLAN -
LIGHTING**

Project Number: **15566**

Sheet Number: **EL-200**

SYMBOL LEGEND

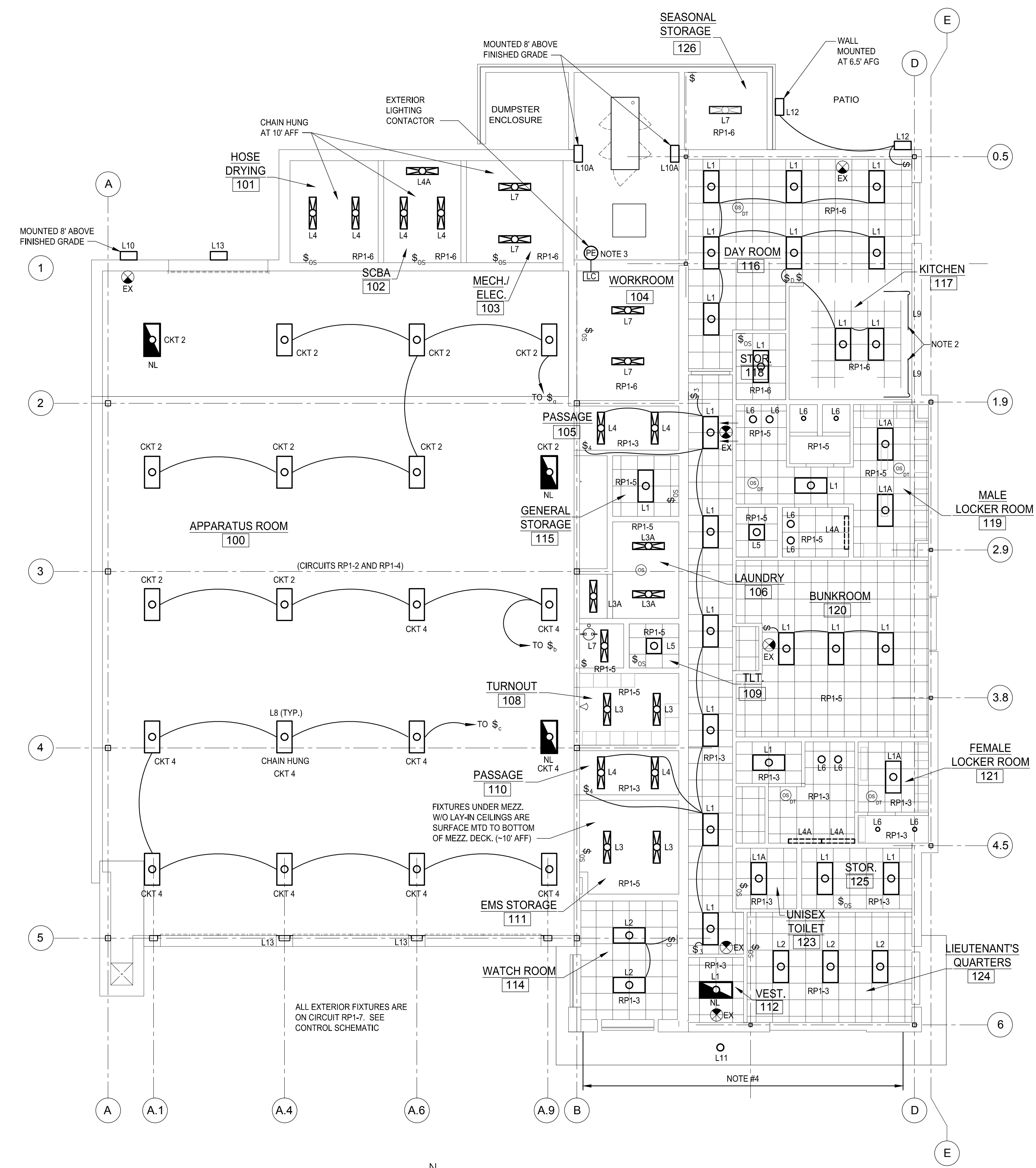
- OR ○ 2x4' LAY-IN
- OR ○ DOWNLIGHT
- INDUSTRIAL FLUORESCENT
- SINGLE POLE SWITCH
- 3-WAY SWITCH
- 4-WAY SWITCH
- DIMMER SWITCH
- 3-WAY DIMMER SWITCH
- MOMENTARY SWITCH W/ SPRINGS RETURN TO CENTER
- PIR WALL BOX OCCUPANCY SWITCH
- CEILING MOUNTED OCCUPANCY SENSOR (WITH POWER PACK IF NEEDED), DT = DUAL TECHNOLOGY
- CORNER MOUNTED PIR OCCUPANCY SENSOR
- WALL WASH DOWNLIGHT
- NL NIGHT LIGHT (CONTINUOUSLY ENERGIZED)
- EL EMERGENCY LIGHT (ON GENERATOR)
- EXIT SIGN W/ ARROWS AS REQ'D
- PHOTO-ELECTRIC CELL
- LIGHTING CONTACTOR
- RPXX-XX CIRCUIT NUMBER
- PANEL NUMBER

LIGHTING NOTES

- EXIT LIGHTING CONNECTED TO CIRCUIT RP1-1.
- CONTRACTOR TO MEASURE AND CUSTOM ORDER THE UNDER CABINET LIGHTING. TO BE SWITCHED WITH CEILING MOUNTED FIXTURES.
- PROVIDE TORX PHOTOCELL POINTING NORTH. CONTRACTOR TO INSTALL A WET LOCATION LISTED LED STRIP TO ILLUMINATE THE BUILDING WALL BEHIND THE LETTERS ON THE TOP OF THE CANOPY. WIRING BETWEEN THE XFMR AND JB DEPENDS ON INTERNAL XFMR UNIT CONFIGURATION. SEE DETAIL, THIS SHEET.
-

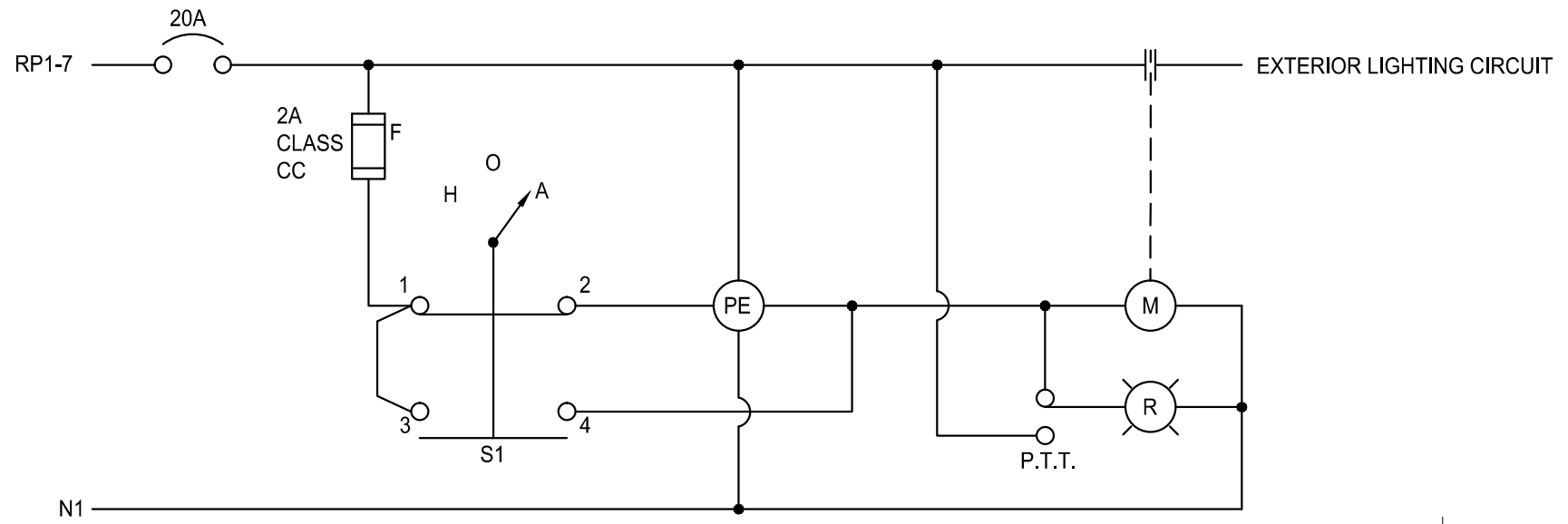
LIGHTING ENERGY CALCULATION

- FIRE STATION AREA = 11,142 S.F.
- ALLOWABLE W.S.F. PER 90.1-2007 TABLE 9.5.1 (BUILDING AREA METHOD) = 1.0 W.S.F.
- TOTAL LIGHTING POWER BUDGET = 11,142W
- INSTALLED LIGHTING POWER = 9,935W (89.2% OF ALLOWABLE)



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

MEZZANINE PLAN - LIGHTING
SCALE: 1/8" = 1'-0"

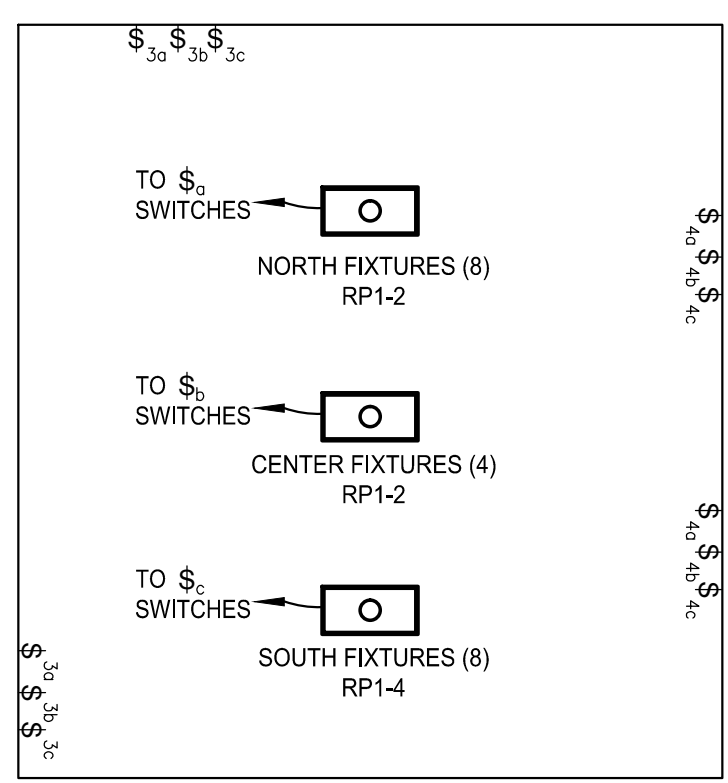


CONTACT #	HAND	OFF	AUTO
1-2			X
3-4	X		

X = CLOSED CONTACT

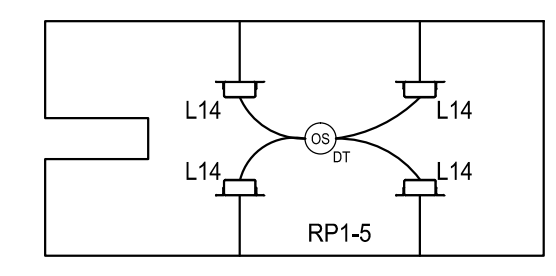
EXTERIOR LIGHTING CONTROL SCHEMATIC
SCALE: N.T.S.

- NOTES:**
- SQUARE D COMBINATION LIGHTING CONTACTOR CLASS 8903, TYPE SMG60V02CF42, NEMA 1 ENCLOSURE, 120V COIL, HOA SWITCH, CONTROL FUSE, RED PUSH-TO-TEST LED INDICATOR LIGHT

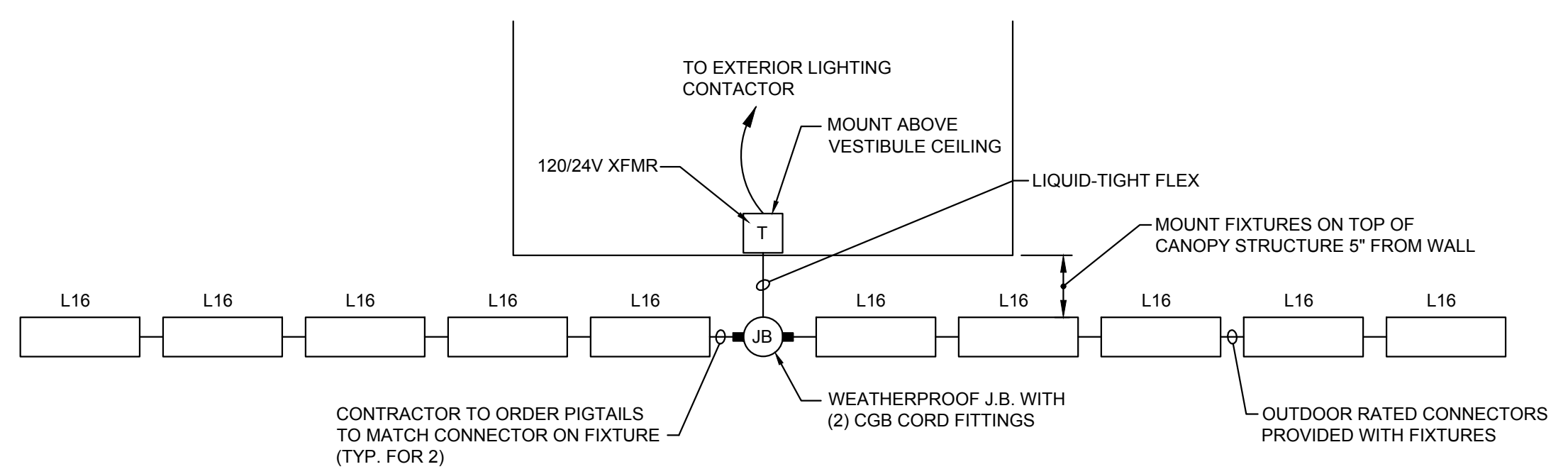


APPARATUS ROOM SWITCHING
SCALE: N.T.S.

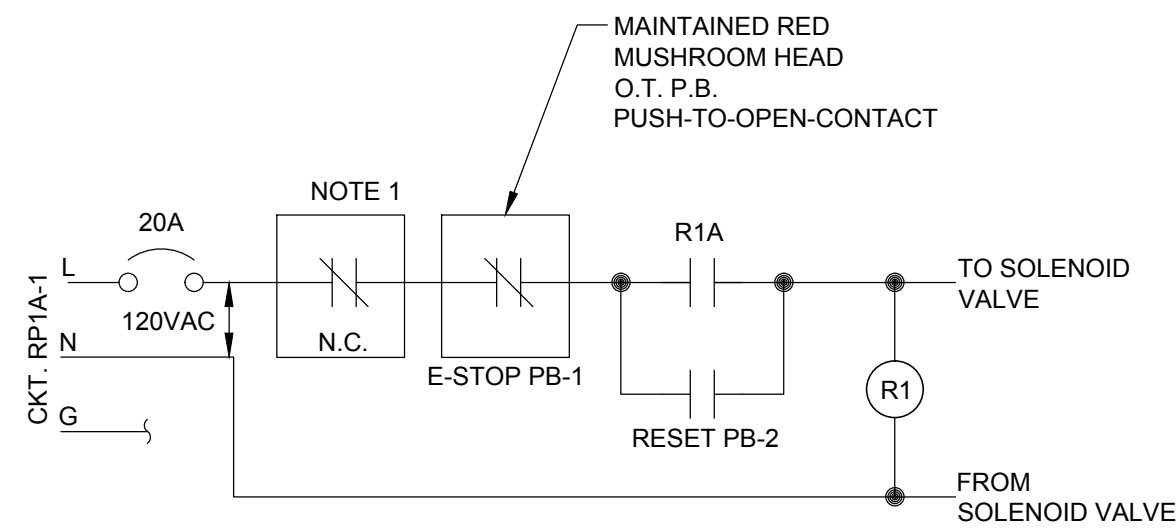
- NOTES:**
- SWITCH a OPERATE THE NORTH LIGHTS.
 - SWITCH b OPERATES THE CENTER LIGHTS.
 - SWITCH c OPERATES THE SOUTH LIGHTS.



BUNKHOUSE NIGHTLIGHTS
SCALE: N.T.S.



CANOPY UPLIGHTING DETAIL
SCALE: N.T.S.

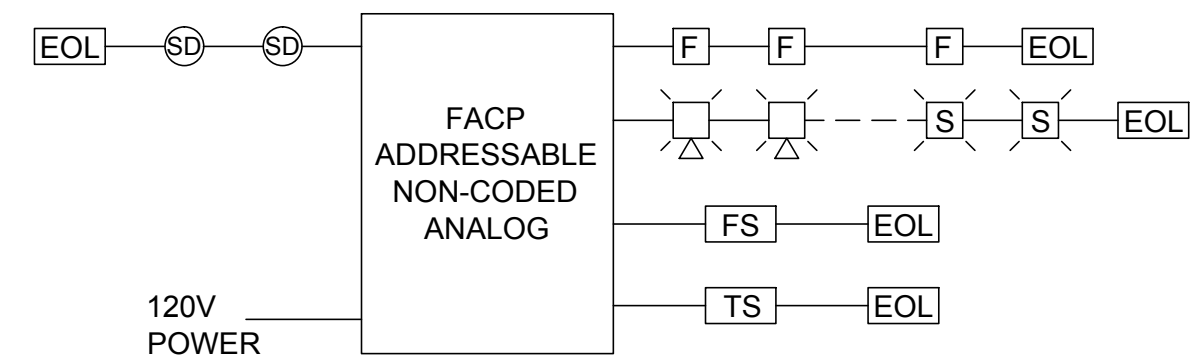


GAS STOVE E-STOP CONTROL SCHEMATIC

SCALE: N.T.S.

NOTES:

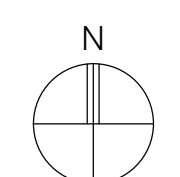
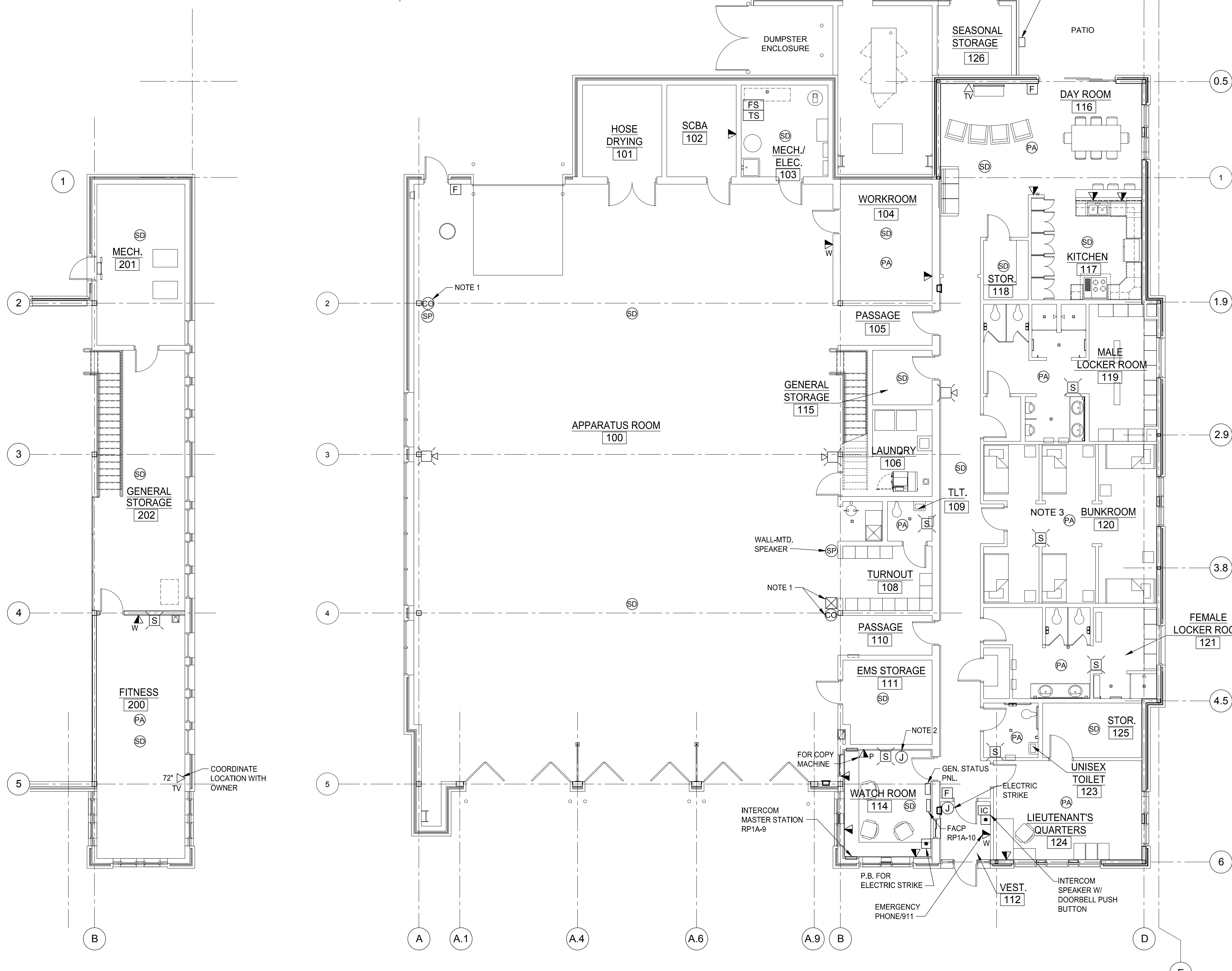
1. N.C. CONTACT OPENS ON STATION MASTER ALARM, DROPS OUT R1 AND DE-ENERGIZES (CLOSES) GAS SOLENOID VALVE. PUSHING THE E-STOP P.B. ALSO DE-ENERGIZES R1 AND CLOSSES THE GAS VALVE. IF STATION MASTER ALARM HAS CLEARED AND THE E-STOP P.B. IS PULLED OUT, PUSHING PB-2 WILL OPEN THE GAS VALVE. PB-2 MUST BE PUSHED TO RESET THE GAS VALVE AFTER ANY POWER LOSS, ANY MASTER STATION ALARM OR MANUAL E-STOP (PB-1).
2. STATION MASTER ALARM CONTACT BY OWNER. CONTRACTOR TO WIRE CIRCUIT.
3. PB-1 AND PB-2 ARE SQUARE D CLASS 900, TYPE K H.D. OPERATORS, CONTACT BLOCKS ARE AS REQUIRED. PB-2 IS A GREEN, FULLY GUARDED MOMENTARY P.B.
4. PROVIDE ENGRAVED LABELS FOR P.B.'S. "E-STOP" FOR PB-1 AND "PUSH TO RESET" FOR PB-2. PROVIDE NEMA 1 ENCLOSURE FOR PUSH BUTTONS AND R1. R1 TO BE SQUARE D CLASS 8501, TYPE KP12-V20 WITH 10A DPDT CONTACTS, OCTAL SOCKET AND 120VAC COIL.



NOTE: FIRE ALARM CONTRACTOR TO ADJUST QUANTITIES AND LOCATIONS PER THE LATEST CODE AND AHJ

FIRE ALARM RISER DIAGRAM

SCALE: N.T.S.



FLOOR PLAN - COMMUNICATION SYSTEMS

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

SYMBOL LEGEND

- ▽ SINGLE GANG BOX w/ 3/4" C. STUB TO ABOVE CLG. FOR TELCO/DATA JACK
- ▽ SINGLE GANG BOX w/ 3/4" STUB UP TO ABOVE CEILING SPACE FOR DATA JACK TO PRINTER
- ▽ SINGLE GANG BOX w/ 3/4" STUB UP TO ABOVE CEILING SPACE FOR TV VIDEO JACK. COORDINATE ELEVATION AND DETAILS W/ OWNER
- ▽ SINGLE GANG BOX w/ 3/4" STUB UP TO ABOVE CEILING SPACE FOR WALL MOUNTED TELEPHONE
- SP PA SPEAKERS (OR PA)
- ICM INTERCOM MASTER
- CM CO MONITOR
- FACP FIRE ALARM CONTROL PANEL
- F FIRE ALARM PULL STATION
- S FIRE ALARM HORN STROBE
- S FIRE ALARM STROBE
- EOL END OF LINE DEVICE
- FS FIRE ALARM FLOW SWITCH
- TS FIRE ALARM TAMPER SWITCH
- SD SMOKE DETECTOR
- JR JUNCTION BOX (ROUTER IN CLG.)
- MANUAL STARTER
- COMBINATION STARTER
- Φ SIMPLEX CLOCK RECEPTACLE

ELECTRICAL NOTES

1. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR. SEE CONTROL SCHEMATIC ON DRAWING EP-902.
2. JB FOR INTERFACE CONTACT WITH STATION MASTER FIRE ALARM. SEE CONTROL SCHEMATIC ON THIS SHEET. N.O. CONTACT CLOSURES UPON STATION ALARM.
3. OVERHEAD LIGHTING CONTROL AND PA SYSTEM CONTROLLED BY WESTNET SYSTEM. ALERTING STROBE AT EACH BED. COORDINATE WITH OWNER.



Sidock Group

ARCHITECTS-ENGINEERS-CONSULTANTS

Corporate Headquarters
45650 Grand River Avenue
Novi, Michigan 48374
Ph: (248)349-4500 • Fax: (248)349-1429

Design Studio
43155 Main Street, Suite 2306
Novi, Michigan 48375

Novi • Wyandotte • Muskegon
Lansing • Gaylord • Sault Ste. Marie

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Key Plan: No Scale

Client:
CITY OF BIRMINGHAM

Project:
**BIRMINGHAM
FIRE STATION No. 2**

1600 WEST MAPLE
BIRMINGHAM, MI 48009

Seal:

Date	Issued For
07/19/16	95 - REVIEW
07/29/16	FINAL REVIEW
12/05/16	BIDS

Drawn: R. McCARTHY
Checked: J. ORANCHAK
Approved: J. ORANCHAK

Sheet Title:
**FLOOR PLAN -
MISCELLANEOUS
SYSTEMS**

Project Number: 15566

Sheet Number: **EC-200**

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Novi, Michigan 48374
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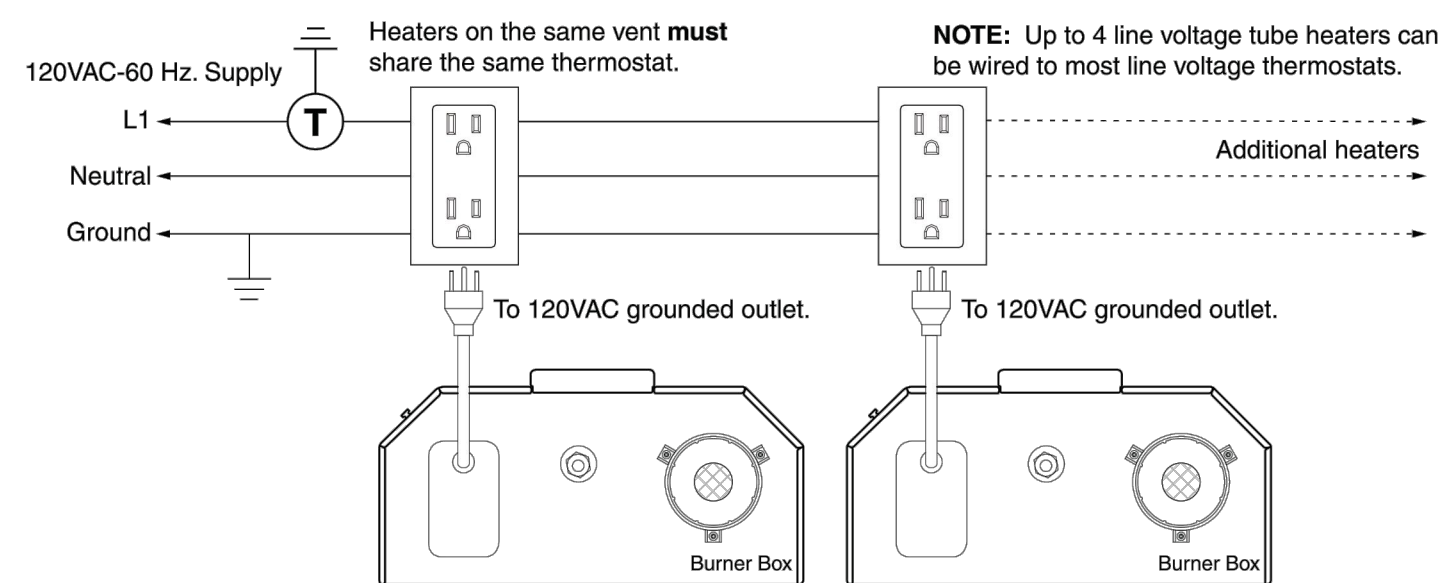
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Sheet Title:
FLOOR PLAN -
POWER

Project Number: 15566

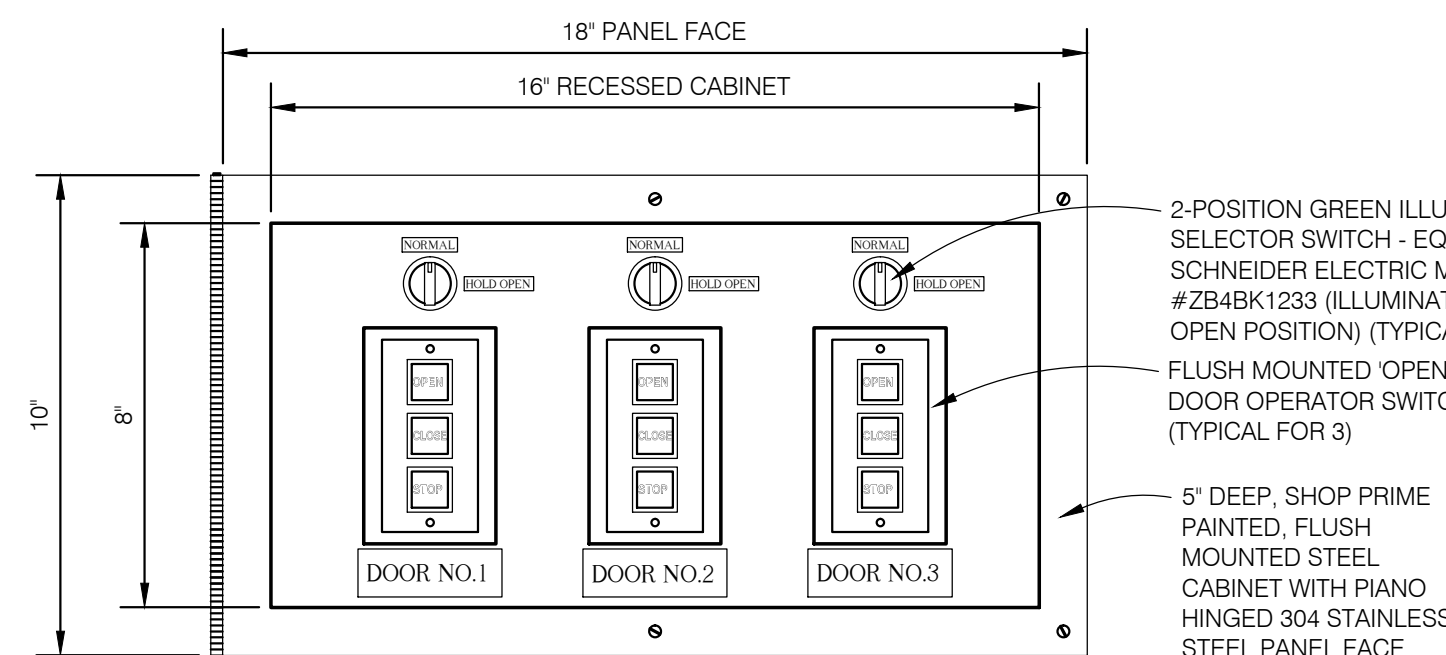
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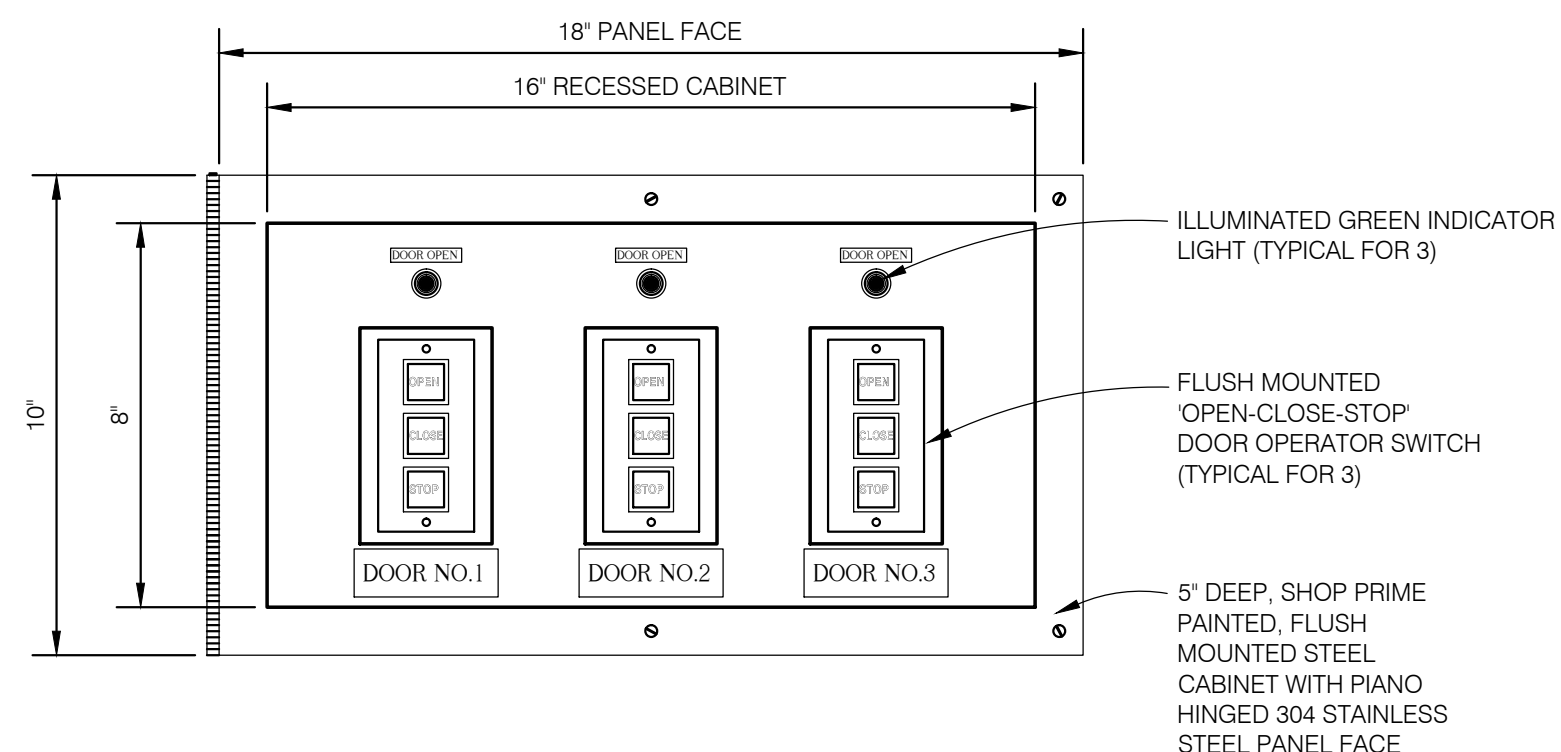
INFRA-RED TUBE HEATERS WIRING DIAGRAM

SCALE: NTS



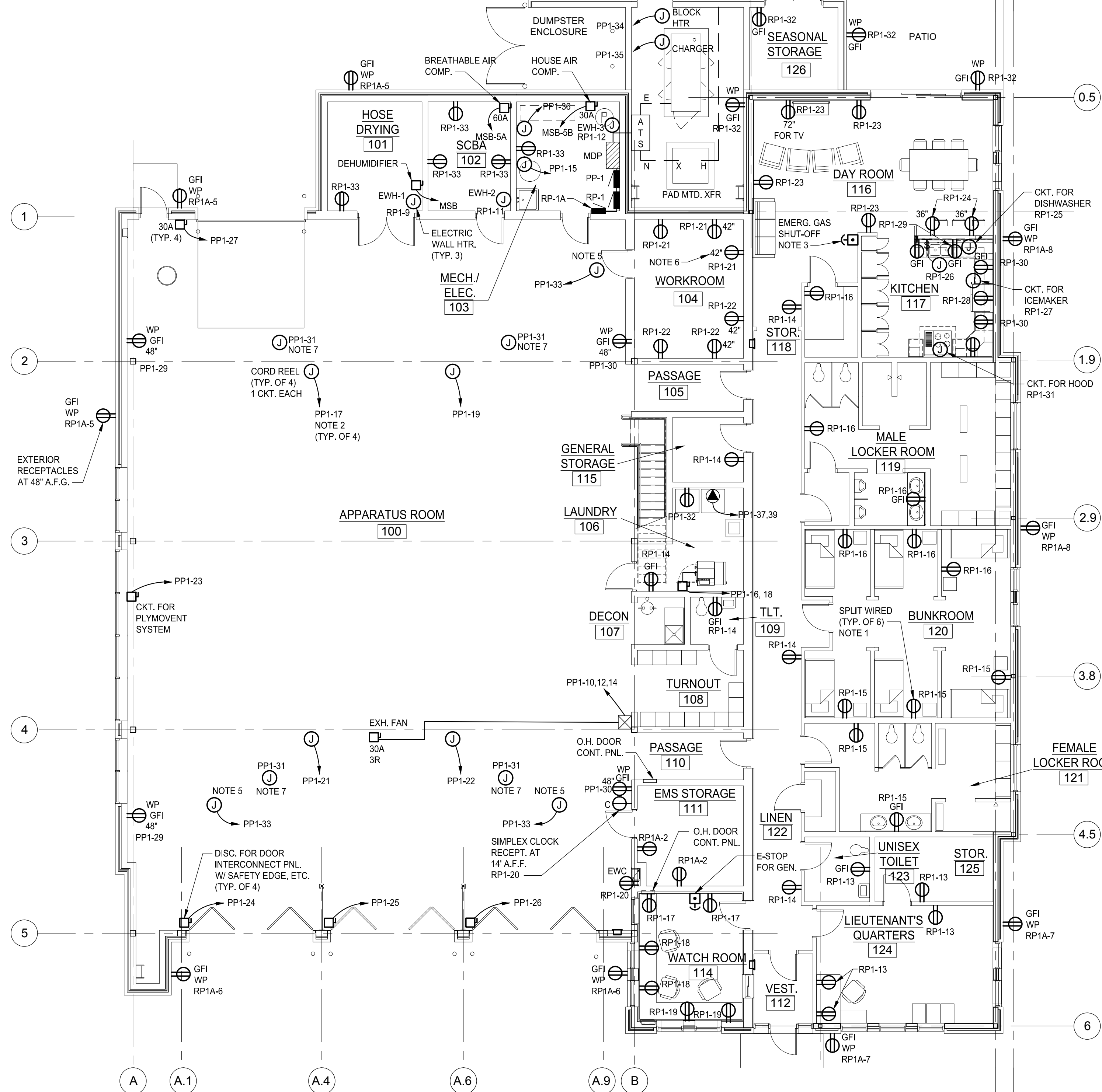
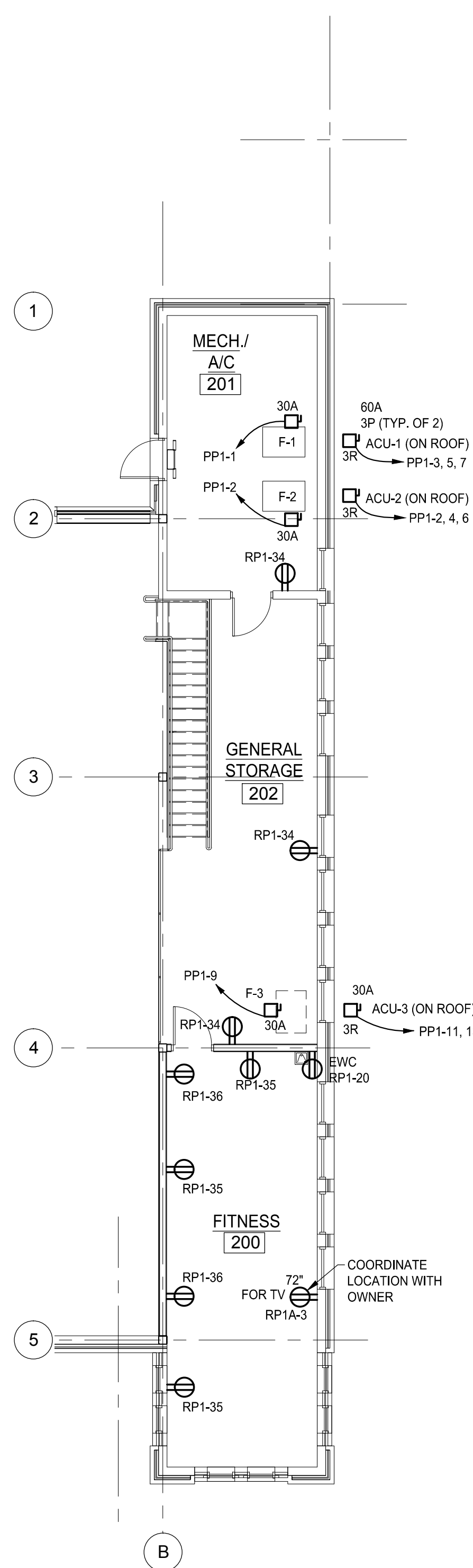
APPARATUS ROOM O.H. DOOR CONTROL PANEL

SCALE: 3" = 1'-0" PROVIDE BLACK LAMINATED PHENOLIC PLASTIC SWITCH TAGS w/ WHITE LETTERING (TYPICAL)



WATCH ROOM O.H. DOOR CONTROL PANEL

SCALE: 3" = 1'-0"



FLOOR PLAN - POWER

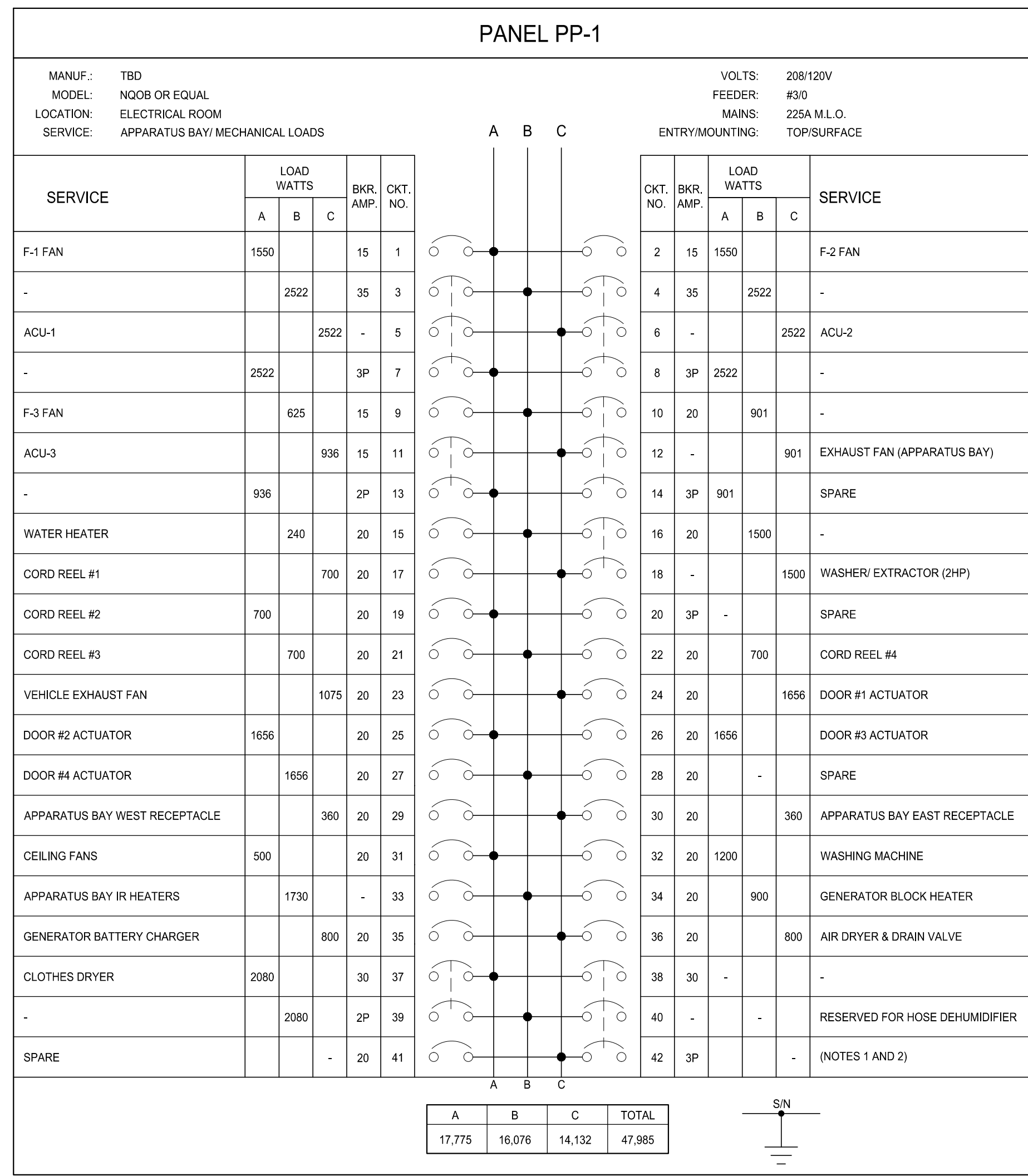
SCALE: 1/8" = 1'-0"

SYMBOL LEGEND

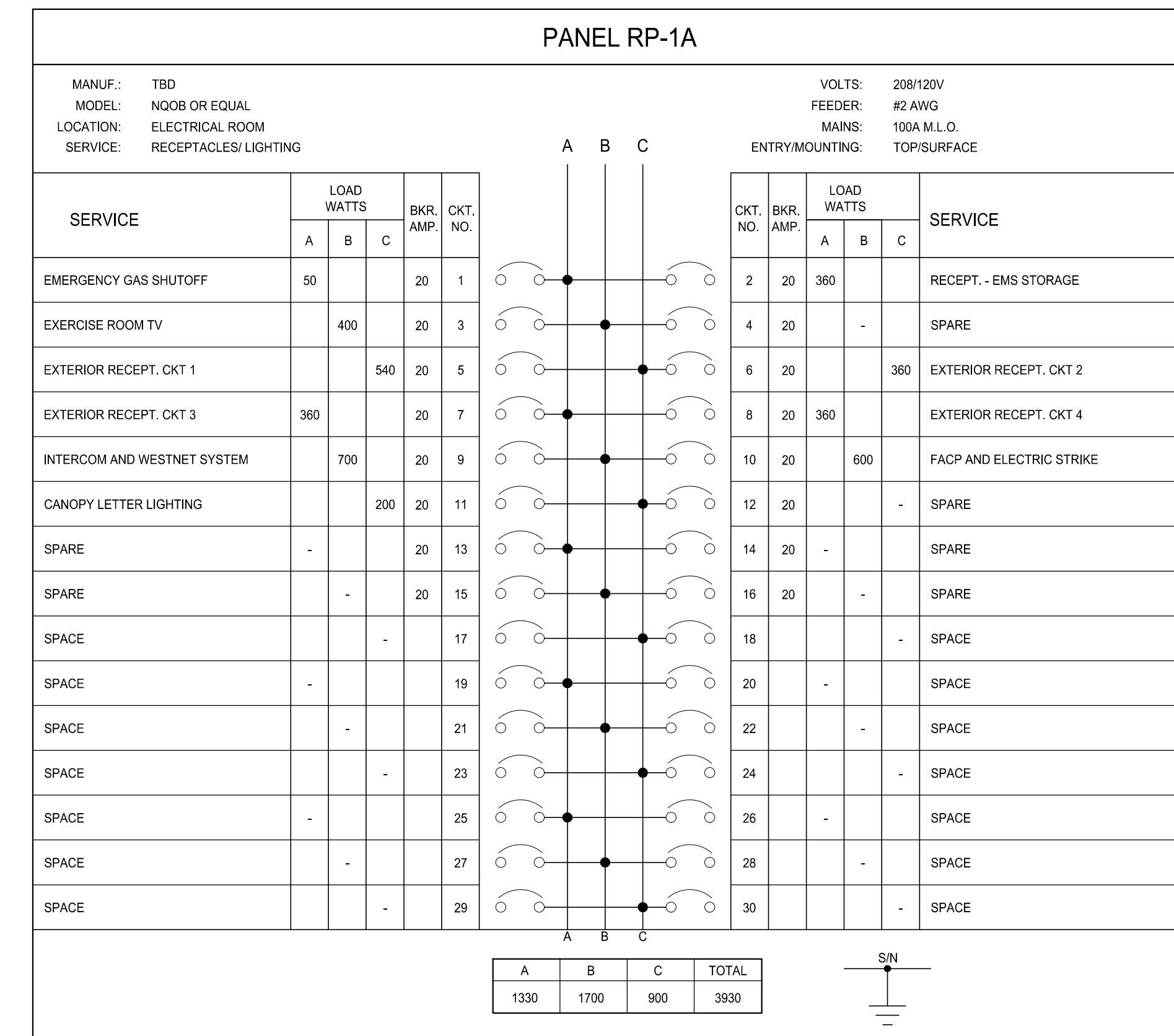
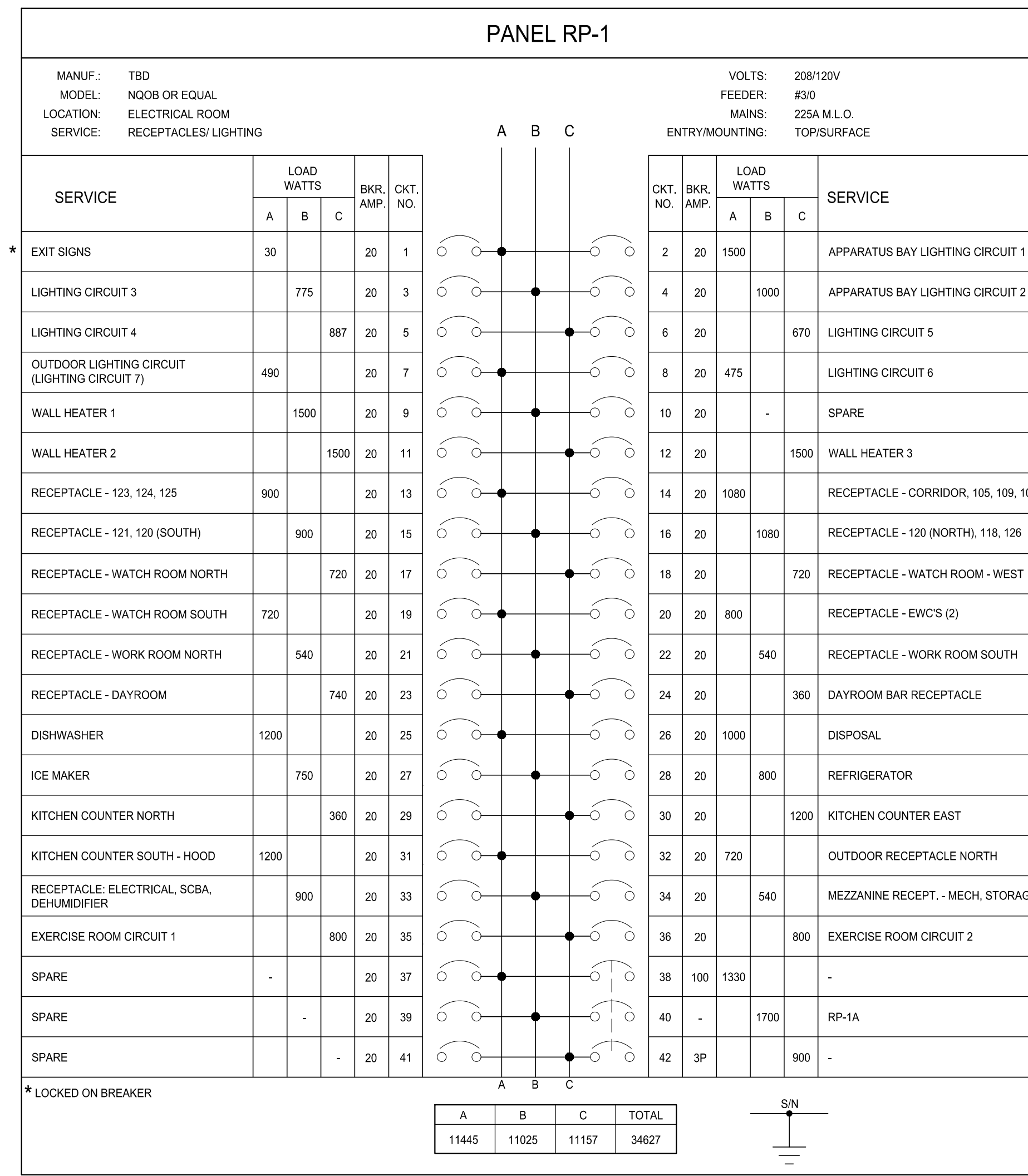
- MAIN DISTRIBUTION PANEL 208/120V
RECEPTACLE PANEL 208/120V
POWER PANEL 208/120V
TRANSFORMER
MANUAL STARTER
COMBINATION STARTER
DISCONNECT SWITCH (UNFUSED)
DISCONNECT SWITCH (FUSED)
CONTROL PANEL
VFD
DUPLEX RECEPTACLE
GROUND FAULT RECEPTACLE
QUAD RECEPTACLE
MOMENTARY TOGGLE SWITCH
SINGLE POLE SWITCH
POWER CIRCUIT NUMBER
RECEPTACLE PANEL NUMBER, IMPLIED (RP-) PREFIX UNLESS NOTED
EMERGENCY STOP PUSH BUTTON
SPECIAL RECEPTACLE (DRYER)
PUSH BUTTON

ELECTRICAL NOTES

- 1. SPLIT WIRED RECEPTACLE FOR NIGHTSTAND LIGHT, ONE SWITCH TO RECEPTACLE, OTHER SWITCH TO CEILING LIGHT. SEE EL-200.
2. REEL - MOUNTED DROP CORD WITH MECHANICS LIGHT AND RECEPTACLE. COORDINATE LOCATION WITH OWNER. A STATION ALARM OR MANUAL EMERGENCY STOP P.B. CLOSURES GAS VALVE SERVING RANGE. SEE SCHEMATIC ON EC-200.
3. ELECTRICAL CONTRACTOR TO INTERCONNECT THE INDIVIDUAL DOOR CONTROL PANELS WITH THE APPARATUS BAY AND WATCH ROOM DOOR CONTROL PANELS.
4. ELECTRICAL CONTRACTOR TO PROVIDE 120V CIRCUIT AND INTERCONNECTING WIRING BETWEEN HEATERS AND LINE VOLTAGE THERMOSTATS. HEATERS AND THERMOSTATS BY MECHANICAL CONTRACTOR. COORDINATE WORK WITH MECHANICAL CONTRACTOR.
5. COORDINATE LOCATION OF BENCH TOP RECEPTACLES (42") WITH OWNER. REMAINING RECEPTACLES IN ROOM ARE 18" AFF.
6. CEILING FANS. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE INTERCONNECTION WIRING FROM FANS TO CONTROL SWITCH.
7. IF CSST IS USED IN THE GAS PIPING SYSTEM, IT SHALL BE BONDED PER THE IFG CODE.



NOTES:
 1. SINGLE POLE OR MULTI-POLE AS REQUIRED.
 SPARE THE UNUSED PANELBOARD SPACES WITH 20A 1-P BREAKERS.
 2. MAY ALSO POWER THE HOSE DEHUMIDIFIER FROM ONE OF THE SPARE SWITCHES ON THE MDP.



Sidock Group
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Corporate Headquarters
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 Checked: J. ORANCHAK
 Approved: J. ORANCHAK

Sheet Title:
PANEL SCHEDULES

Project Number: **15566**

Sheet Number: **EP-901**

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Corporate Headquarters
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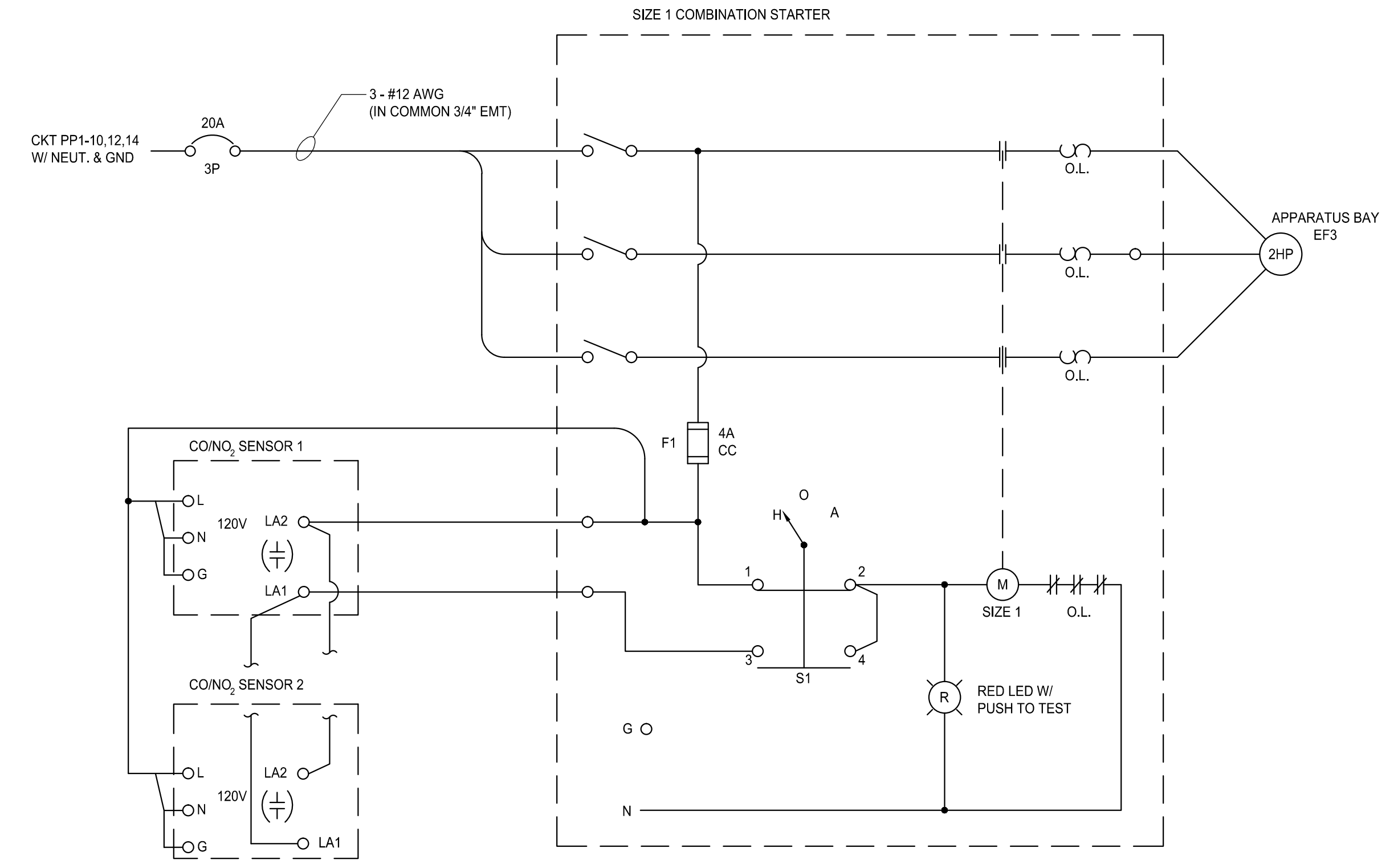
Sheet Title:
**ELECTRICAL
ONE LINE
DIAGRAMS**

Project Number: 15566

Sheet Number: **EP-902**

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FIXTURE SCHEDULE					
SYMBOL	DESCRIPTION	MODEL	VOLTS/WATTS	SOURCE	COMMENTS
L1	2' x 4' RECESSED LENSED LED TROFFER	LITHONIA 2TL4-30L-FW-A19-EZ1-LP840-GLR OR EQUAL BY COOPER/METALUX, PHILLIPS/DAYBRITE	120V/25W	4000°K, 3000 LUMEN	A19 LENS, FUSED DIMMING (0-10V) 1% DRIVER, SINGLE FUSE
L1A	2' x 4' RECESSED LENSED LED TROFFER	LITHONIA 2TL4-40L-FW-A19-EZ1-LP840-GLR OR EQUAL BY COOPER/METALUX, PHILLIPS/DAYBRITE	120V/32W	4000°K, 4000 LUMEN	A19 LENS, FUSED DIMMING (0-10V) 1% DRIVER, SINGLE FUSE
L2	2' x 4' RECESSED LED VOLUMETRIC TROFFER	LITHONIA 2RTL4-40L-FW-A19-EZ1-LP840-GLR OR EQUAL BY COOPER/METALUX, PHILLIPS/DAYBRITE	120V/38.5W	4000°K, 4000 LUMEN	FUSED DIMMING (0-10V) 1% DRIVER, SINGLE FUSE
L3	LENSED LED STRIPLIGHT	LITHONIA ZL2N-48-5000LM-MDD-MVOLT-40K-80CRI-WH-GLR OR EQUAL BY COOPER/METALUX, PHILLIPS/DAYBRITE	MVOLT/72W	4000°K, 5000 LUMEN	48", MEDIUM DIFFUSE DRIVER, 80 CRI, WHITE FINISH, SINGLE FUSE
L3A	SAME AS L3 BUT 2000 LUMENS	LITHONIA ZL2N-48-2000LM-MDD-MVOLT-40K-80CRI-WH-GLR OR EQUAL BY COOPER/METALUX, PHILLIPS/DAYBRITE	MVOLT/734W	4000°K, 2000 LUMEN	48", MEDIUM DIFFUSE DRIVER, 80 CRI, WHITE FINISH, SINGLE FUSE
L4	4' WALL BRACKET/SURFACE LED	LITHONIA WL4-40L-EZ1-LP840-GLR OR EQUAL BY COOPER/METALUX, PHILLIPS/DAYBRITE	MVOLT/39.5W	4000°K, 4000 LUMEN	48" WALL/SURFACE MOUNT. DIMMING (0-10V) 1% DRIVER, SINGLE FUSE
L4A	SAME AS L4 BUT 2000 LUMENS	LITHONIA WL4-20L-EZ1-LP840-GLR OR EQUAL BY COOPER/METALUX, PHILLIPS/DAYBRITE	MVOLT/118.7W	4000°K, 2000 LUMEN	48" WALL/SURFACE MOUNT. DIMMING (0-10V) 1% DRIVER, SINGLE FUSE
L5	2'x2' RECESSED LENSED LED TROFFER	LITHONIA 2TL2-33L-FW-A19-EZ1-LP840-GLR OR EQUAL BY COOPER/METALUX, PHILLIPS/DAYBRITE	MVOLT/29W	4000°K, 3300 LUMEN	A19 LENS, FUSED DIMMING (0-10V) 1% DRIVER, SINGLE FUSE
L6	6" LENSED LED DOWNLIGHT	LITHONIA EVO-40/10-6-DFRAMF-120-EZ1-SF OR EQUAL BY COOPER/PORTFOLIO, PHILLIPS/OMEGA	120V/40W	4000°K, 1000 LUMEN	DEAD FRONT REGRESSED ANTIMICROBIAL LENS, DIMMING (0-10V) 1% DRIVER, SINGLE FUSE
L7	48" VAPOR RESISTANT, ROUGH SERVICE	LITHONIA VAP-4000LM-PCL-MD-MVOLT-GZ10-40K-80CRI-SF OR EQUAL BY COOPER/METALUX, PHILLIPS/DAYBRITE	MVOLT/144W	4000°K, 4000 LUMEN	CLEAR GASKETED POLYCARBONATE LENS, MEDIUM DISTRIBUTION, 80CRI, DIMMING (0-10V) 10% DRIVER, SINGLE FUSE
L8	HIGH BAY LED	LITHONIA IBL-12L-WD-120-LP840-GLR-CS3W OR EQUAL BY COOPER, PHILLIPS	120V/125W	4000°K, 12000 LUMEN	WIDE DISTRIBUTION, SINGLE FUSE, 80 CRI, W/CORD AND TWIST-LOCK RECEPTACLE
L9	LED UNDERCABINET LIGHT	LUCIFER LIGHTING FLS-1-XXX-B-C-C OR ENGINEER APPROVED EQUAL	120V/1.5W PER FT.	COOL	CONTRACTOR TO MEASURE AND ORDER FOUR LENGTHS AS SHOWN ON LIGHTING PLAN. PROVIDE INTERCONNECTING CABLES AND POWER SUPPLY AS REQUIRED (POWER SUPPLY IS PSA-40-100CC-JB-1)
L10	ARCHITECTURAL WALLPACK	LITHONIA WSTLED-2-10A700/40K-SR4-120-SF-DBXD OR EQUAL BY COOPER/LUMARK, PHILLIPS/GARDCO	120V/47W	4000°K, 3851 LUMEN	SINGLE FUSE, FORWARD THROW OPTICS (SR4)
L10A	SAME AS L10 BUT W/ SR2 OPTICS	LITHONIA WSTLED-2-10A700/40K-SR2-120-SF-DBXD OR EQUAL BY COOPER/LUMARK, PHILLIPS/GARDCO	120V/47W	4000°K, 3851 LUMEN	SINGLE FUSE, ROADWAY OPTICS (SR2)
L11	OUTDOOR LED CANOPY FIXTURE, SURFACE MOUNT	LITHONIA OLCFM-15-DBB OR EQUAL BY COOPER/LUMARK, PHILLIPS/GARDCO	120V/16.6W	4000°K, 1077 LUMEN	
L12	ARCHITECTURAL ROUGH SERVICE LED	LITHONIA VGR2C-40LED-120-DBBT-SF OR EQUAL BY COOPER/LUMARK, PHILLIPS/GARDCO	120V/40W	4000°K, 940 LUMEN	POLYCARBONATE LENS, 120V OPERATION, SINGLE FUSE, DARK BRONZE FINISH W/ RK1 T20BIT
L13	ARCHITECTURAL LED WALLPACK	LITHONIA KAXWLED-P1-40K-R4-120-SF OR EQUAL BY COOPER/LUMARK, PHILLIPS/GARDCO	120V/28W	4000°K, 3415 LUMEN	FORWARD THROW OPTICS, SINGLE FUSE
L14	LED LOUVERED NIGHTLIGHT	KIRLIN MNT-07912-120V-HW-37 OR ENGINEERS APPROVED EQUAL	120V/6W	4000°K, 35 LUMEN	DARK BRONZE FINISH, 120V OPERATION, HIGHER LIGHT OUTPUT
L15	LED FLOODLIGHT (FOR FLAGPOLE)	LITHONIA DSXF2LED-4-A530/40K-MSP-120-THK-SF-FV-DBXD OR EQUAL BY COOPER/LUMARK, PHILLIPS/GARDCO	120V/74W	4000°K, 6933 LUMEN	KNUCKLE MOUNT w/ 1/2" NPT PIPE, SINGLE FUSE, FULL VISOR, DARK BRONZE FINISH
L16	OUTDOOR LED STRIP	CELESTIAL LIGHTING SERPENS-GX-W40-A-49	120V/175W (XFMR)	4000°K, 366 LUMEN	UL WET LOCATION LISTED (IP68 RATED), FACTORY SUPPLIED OUTDOOR RATED CONNECTORS, SER-FX-120-300 POWER TRANSFORMER, ANGLE MOUNTING BRACKET
EX	LED EXIT SIGN	LITHONIA LQM-S-W-3R-120/277 OR EQUAL BY COOPER/SURE-LITE, PHILLIPS/MCPHILBIN	120V/5W	RED LED	RED STENCIL LETTERS, WHITE HOUSING

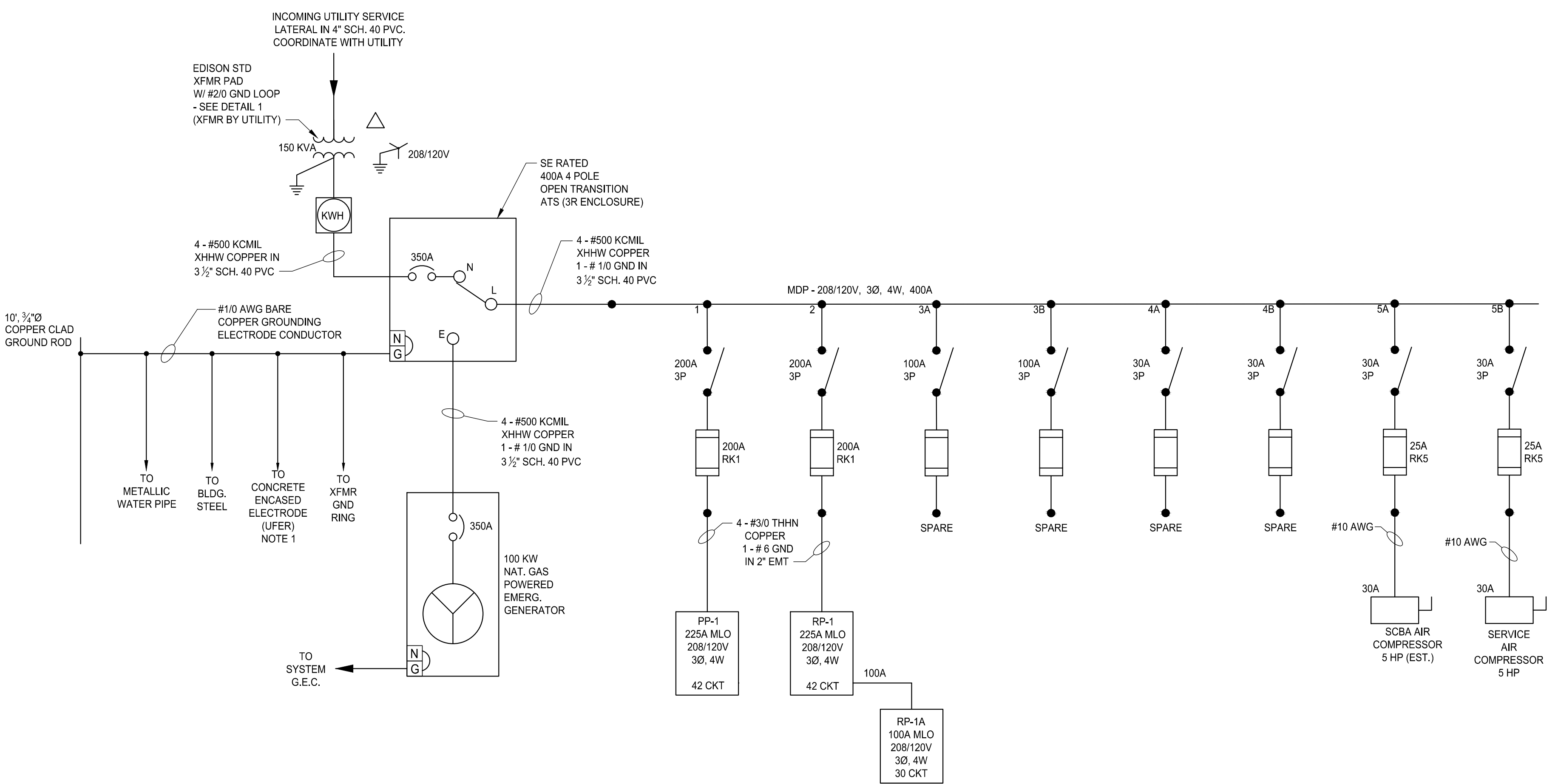


CONTACT #	HAND	OFF	AUTO
1-2	X		
3-4			X

X = CLOSED CONTACT

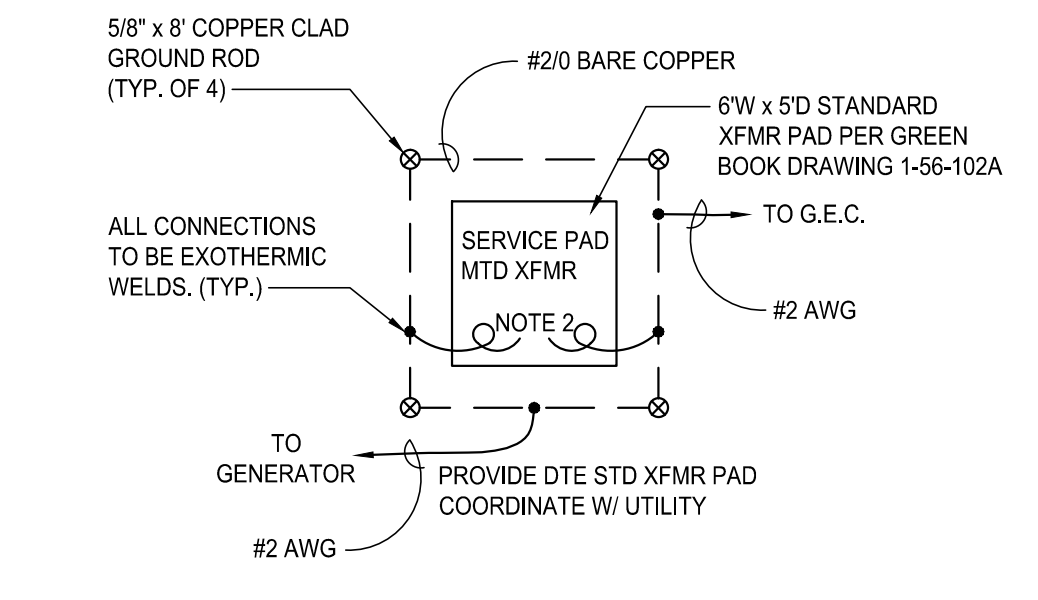
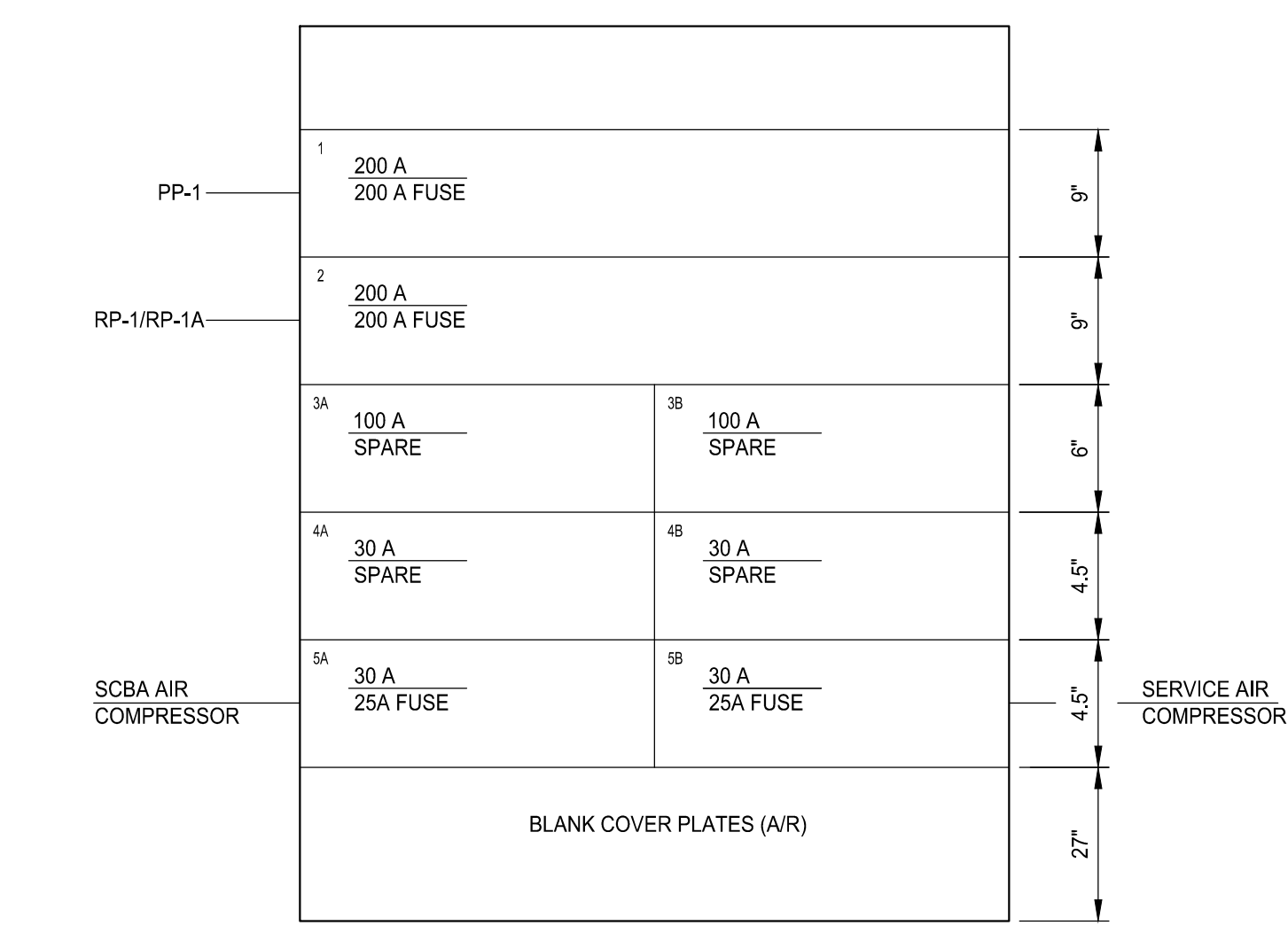
CO/NO₂ MONITORING CONTROL SCHEMATIC

SCALE: N.T.S.



ONE LINE DIAGRAM

SCALE: NOT TO SCALE



DETAIL 1

SCALE: NOT TO SCALE

ELECTRICAL NOTES

- PROVIDE 20' MINIMUM BARE COPPER WIRE IN BUILDING FOOTING. ALL NON-ACCESSIBLE GROUNDING CONNECTIONS TO BE EXOTHERMIC WELDS.
- PROVIDE 3' PITGALLS, #2AWG BARE COPPER.