



VICINITY MAP

7 BREW COFFEE

LEE'S SUMMIT, MO

22033 7BLS

PERMIT SET

APRIL 22, 2022

SHEET INDEX

GENERAL

G0.0 COVER SHEET
G0.1 GENERAL NOTES & SCHEDULES

CIVIL

C-001 GENERAL NOTES
C-101 DEMOLITION PLAN
C-201 SITE PLAN
C-301 GRADING PLAN
C-401 UTILITY PLAN
C-501 EROSION CONTROL PLAN
C-701 DETAILS

STRUCTURAL

S0.0 GENERAL NOTES
S1.0 FOUNDATION & DETAILS
S1.1 FRAMING PLANS
S1.2 ELEVATIONS & SECTIONS
S1.3 TRUSS SHEET
S2.1 DETAILS
S3.1 DRIVE-THRU CANOPY
S3.2 CANOPY DETAILS

ARCHITECTURAL

A1.1 FLOOR PLANS
A1.2 ROOF PLAN / EGRESS PLAN
A1.3 REFLECTED CEILING PLANS
A2.1 EXTERIOR ELEVATIONS
A2.2 EXTERIOR ELEVATIONS
A3.1 SECTIONS AND DETAILS
A3.2 SECTIONS AND DETAILS
A4.1 DOORS AND WINDOWS
A5.1 RESTROOMS
A6.1 TRASH ENCLOSURE DETAILS

SITE UTILITIES

SU1.1 SITE UTILITIES PLAN

MECHANICAL

M1.1 PLUMBING PLAN
M2.1 HVAC PLAN
M3.1 SCHEDULES AND DETAILS

ELECTRICAL

E1.1 ELECTRICAL PLAN
E1.2 SCHEDULES AND DETAILS

BUILDING SUPPLIER



DREW RODIGER
PROJECT MANAGER
C: 417-425-4546
E: DREW@CMCMOD.COM

LEE LOVEALL
OWNER/DESIGN
CONSULTANT
C: 417-353-1865
E: LEE@CMCMOD.COM

BUILDING CODE INFORMATION

AUTHORITY HAVING JURISDICTION: CITY OF LEE'S SUMMIT
APPLICABLE BUILDING CODES: 2018 IBC, 2017 NEC, 2010 ADA, 2018 INTERNATIONAL FIRE CODE.
CURRENT ZONING: CP-2, PLANNED COMMUNITY COMMERCIAL
USE GROUPS: B, BUSINESS
CONSTRUCTION TYPE: V-B
BUILDING LIMITATIONS: ALLOWABLE HEIGHT: 2 STORIES, 40' (BASED ON B USE GROUP, IBC 2018, 504.3)
ACTUAL HEIGHT: 2 STORIES, 19'-8"
ALLOWABLE AREA: 9,000 S.F. (BASED ON B USE GROUP, IBC 2018, 506.2)
ACTUAL AREAS: 723 S.F. TOTAL (SERVING AREA - 468 S.F., MECHANICAL ACCESS - 131 S.F., COOLER - 124 S.F.)
OTHER CODE ITEMS: SEE EGRESS PLAN FOR ADDITIONAL ITEMS

PROJECT DESCRIPTION

PREFABRICATED FREESTANDING BUILDING WITH ACCOMPANYING WALK-IN COOLER DELIVERS COFFEE, TEA, AND ENERGY DRINKS TO CUSTOMERS VIA DRIVE-THROUGH LANES. NO INTERIOR OR EXTERIOR DINING COMPONENT IS PROVIDED; THE INTERIOR IS ONLY OCCUPIED BY STAFF. DRINK ITEMS ARE THE ONLY ITEMS OFFERED ON THE MENU.

GENERAL NOTES

ALL CONSTRUCTION SHALL FOLLOW THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5831. WHERE DISCREPANCIES EXIST BETWEEN THESE PLANS AND THE DESIGN AND CONSTRUCTION MANUAL, THE DESIGN AND CONSTRUCTION MANUAL SHALL PREVAIL.

THE CONTRACTOR SHALL CONTACT THE CITY'S DEVELOPMENT SERVICES ENGINEERING INSPECTION TO SCHEDULE A PRE-CONSTRUCTION MEETING WITH A FIELD ENGINEERING INSPECTOR PRIOR TO ANY LAND DISTURBANCE WORK AT (816) 969-1200.

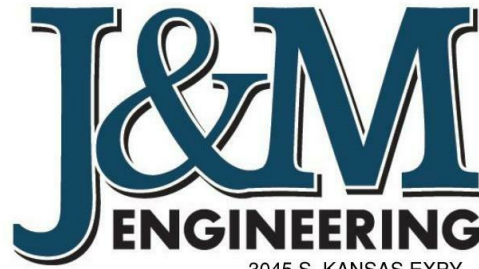
CONSULTANTS

CIVIL ENGINEER:



8040 NORTH OAK TRAFFICWAY
KANSAS CITY, MO 64118
(816) 468-5858

STRUCTURAL ENGINEER:



3045 S. KANSAS EXPY.
SPRINGFIELD, MO 65907
PHONE: 417.708.9315
www.jandmstructural.com

MECHANICAL ELECTRICAL PLUMBING ENGINEER:



2225 WEST CHESTERFIELD
BOULEVARD, SUITE 200
SPRINGFIELD, MO 65807
(417) 877-1700

TORGERSON
DESIGN PARTNERS
ARCHITECTURE / REAL ESTATE / DEVELOPMENT

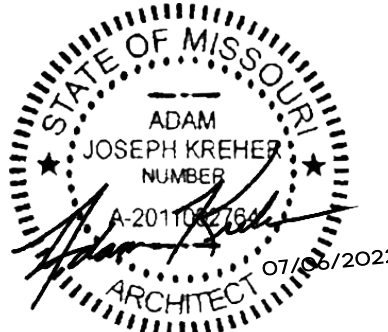


116 NORTH 2ND AVENUE - OZARK, MO 65721 - P (417) 581-8889 - F (417) 581-9002
ARCHITECTURAL CORPORATION MISSOURI LICENSE NUMBER: A-203001427



7 BREW COFFEE
LEE'S SUMMIT, MO

1430 NE DOUGLAS ST.
LEE'S SUMMIT, MO 64086



ARCHITECT OF RECORD:

NAME: ADAM KREHER
LICENSE NO. 2011002764

PROJECT NUMBER:
220333 7BLS

REVISION: A ADD 001 6/17/22

B ADD 002 7/5/22

G0.0

COVER SHEET

DATE: APRIL 22, 2022

EQUIPMENT AND FIXTURE SCHEDULE						
ITEM NO.	QTY.	MANUFACTURER	PRODUCT	PRODUCT NO.	SIZE	NOTES
EQ-1	1	NOLAKE	REMOTE WALK-IN COOLER	KOBB77104-C	675 CUBIC SF	
EQ-2	1	BUNN WATER HEATER	HOT WATER MACHINE	HSX- ELEMENT		
EQ-3	2	LA MARZOCCO	ESPRESSO MACHINE	LINEA PB (AV)- 3		
EQ-4	1	LA MARZOCCO	ESPRESSO MACHINE	LINEA PB (AV)- 4		
EQ-5	2	MANITOWOC	ICE MAKER HEADS	IYF 1800 C		REMOTE CONDENSOR - IF 1800C
EQ-6	1	MANITOWOC	ICE MAKER BIN	LB 1760	60"	
EQ-7	27	TORRANI	SYRUP RACK			
EQ-8	3	VITAMIX	BLENDER			
EQ-9	4	EAGLE GROUP	STAINLESS STEEL STORAGE SHELVING	(1) SS 1872 - PZ86S (2) SS 1424 - PZ86S (3) SS 1436 - PZ86S (4) SS 1436 - PZ86S		
EQ-10	2	SPACEMAN	CHILLER MACHINE	6695-C		
EQ-11	3	MAZZER	COFFEE BEAN GRINDER	ROBUR S NERO		
EQ-12	1	MAZZER	DECAF COFFEE BEAN GRINDER	SUPER JOILY PRO V (E) NERO		
EQ-13	1	RUBBERMAID	TRASH CONTAINER			
EQ-14	1	ATOSA	REACH-IN COOLER	MCF8723GR		
EQ-15	3	LA CROSSR	MOBILE ICE BINS	513034 CL-24(CCCAB-31		
EQ-16	1	CONTINENTAL	UNERCOUNTER COOLER	SW36NGD-U		
EQ-17	3	STRONGWAY	AIR CURTAIN	49947		
EQ-18	3		RAPID RINSER			

EQUIPMENT SCHEDULE NOTES:

- a. ALL EQUIPMENT TO BE INSTALLED BY A LICENSED INSTALLER AND THE MANUFACTURERS SPECIFICATIONS.

GENERAL SCHEDULE NOTES:

THE ITEMS IDENTIFIED ON THE FINISH MATERIALS SCHEDULE, EQUIPMENT AND FIXTURE SCHEDULES HAVE BEEN SELECTED AND APPROVED FOR THE USE ON 7 BREW COFFEE PROJECTS AS "STANDARDS". ITEMS SPECIFIED MAY OR MAY NOT ACTUALLY APPEAR ON THE DRAWINGS. THE DESCRIPTIONS ARE TO IDENTIFY THE PRODUCTS AND NOT TO DETERMINE THE INCLUSION OR USE OF ANY PARTICULAR ITEM.

FINISH MATERIALS SCHEDULE			
SYMBOL	ITEM	DESCRIPTION	REMARKS
FRP-1	MEG-WALLS	WHITE	MEG PANELS
MP-1	METAL SIDING	CUSTOM COLOR: ZINC GRAY FINISH: SMOOTH	EXTERIOR SIDING
MP-2	BRAKE METAL	COLOR: SLATE BLUE FINISH: SMOOTH	METAL ROOF, COPING AND CANOPY COLUMNS
MP-3	BRAKE METAL	COLOR: MATTE BLACK FINISH: SMOOTH	METAL SOFFIT AND COPING
MP-4	BRAKE METAL	COLOR: ZINC GRAY FINISH: SMOOTH	METAL COPING AT SIDE WALLS
MP-5	BRAKE METAL	COLOR: COLONIAL RED FINISH: SMOOTH	METAL COPING
PL-1	DECORATIVE PANEL	NICHIIHA MODERN BRICK COLOR: MIDNIGHT FIBER CEMENT PANEL	EXTERIOR FINISH
PL-2	DECORATIVE PANEL	NICHIIHA CANYON BRICK COLOR: SHALE BROWN FIBER CEMENT PANEL	EXTERIOR FINISH
WC-1	DECORATIVE WALL COVERING	CUSTOM VINYL WALL COVERING	COOLER WALLS
VT-1	RESILIENT VINYL FLOORING	PROTECT-ALL FLOORING COLOR: LIGHT GRAY	SERVICE AREA AND TOILET
VB-1	RESILIENT VINYL BASE	PROTECT-ALL BASE COLOR: LIGHT GRAY	SERVICE AREA AND TOILET

FINISH MATERIALS SCHEDULE NOTES:

- a. PROVIDED BY 7 BREW AND INSTALLED BY GENERAL CONTRACTOR.
b. ALL MATERIALS AND WORK PROVIDED AND INSTALLED BY GENERAL CONTRACTOR.
c. PROVIDE A MINIMUM OF TWO (2) COATS PAINT OVER ONE (1) COAT PRIMER ON ALL EXPOSED GYP BD IN SERVICE AREA AND TOILET
d. CEILING AND WALL TO BE SATIN FINISH. DOORS AND DOOR FRAMES TO BE SEMI-GLOSS.

GENERAL CONSTRUCTION PROCEDURES

- ALL CONSTRUCTION SHALL BE EXECUTED IN STRICT COMPLIANCE WITH ALL LOCAL CODES AND ORDINANCES. GENERAL CONTRACTOR SHALL COMPLY WITH ALL CONSTRUCTION REGULATIONS AND PROCEDURES ESTABLISHED BY THE LANDLORD.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING APPLICATION FOR AND PROCURING ALL PERMITS AND CERTIFICATES AS MIGHT BE REQUIRED BY GOVERNING AGENCIES AND SHALL BEAR THE COST FOR SUCH PERMITS AND CERTIFICATES. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS OF THE SITE.
- EVERY EFFORT HAS BEEN MADE TO ASSURE ACCURATE CONSTRUCTION DOCUMENTS, BUT IF A CONFLICT EXISTS THE GENERAL CONTRACTOR SHALL CONTACT THE ARCHITECT IMMEDIATELY FOR CLARIFICATION. THESE DOCUMENTS INDICATE THE DESIGN INTENT AND IF EXISTING CONDITIONS ARE IN CONFLICT THE GENERAL CONTRACTOR SHALL CONTACT THE ARCHITECT IMMEDIATELY FOR CLARIFICATION.
- THE GENERAL CONTRACTOR SHALL MAINTAIN DIRECT SUPERVISION OVER ALL SUBCONTRACTORS AND SHARE RESPONSIBILITY FOR THEIR PERFORMANCE AND QUALITY OF WORK. A LIST OF ALL SUBCONTRACTORS SHALL BE PROVIDED TO THE OWNER AND THE ARCHITECT. A COPY OF THIS LIST SHALL BE POSTED ON THE JOB SITE.
- ALL SIGNAGE AND MOUNTING DEVICES SHALL BE PROVIDED, AND ALL SIGNAGE APPROVALS OBTAINED, BY OWNERS SIGN CONTRACTOR. GENERAL CONTRACTOR SHALL PROVIDE ELECTRICAL POWER AS REQUIRED AND INSURE SUFFICIENT SPACE AND CLEARANCE IS PROVIDED FOR PROPER INSTALLATION. SIGNAGE CONTRACTOR SHALL APPLY FOR AND SECURE ALL APPROVALS REQUIRED BY ALL LOCAL GOVERNING AGENCIES AND SUPPLY ANY DRAWINGS OR GRAPHIC REPRESENTATIONS REQUIRED BY LANDLORD.
- ALL CONCEALED WOOD BLOCKING USED IN CONSTRUCTION SHALL BE FIRE-RETARDANT TREATED (IF APPLICABLE).
- GENERAL CONTRACTOR SHALL PERFORM AND/OR CAUSE TO BE PERFORMED ALL WORK IN A FIRST-CLASS WORKMANLIKE MANNER AND IN ACCORDANCE WITH EACH TRADE'S ESTABLISHED PROCEDURES AND MANUFACTURER'S RECOMMENDATIONS FOR PRODUCT USE AND INSTALLATION.
- ALL PRODUCTS USED ON THIS PROJECT SHALL BE FIRST QUALITY, NEW AND FREE OF ASBESTOS OR OTHER ENVIRONMENTALLY UNSAFE SUBSTANCES.
- MILLWORK, BASE, DESIGNATED TRIM, ETC. SHALL BE PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR WHERE INDICATED ON THE DRAWINGS AND/OR SCHEDULES.
- GENERAL CONTRACTOR SHALL CONTACT ARCHITECT PRIOR TO CONSTRUCTION START DATE TO CONFIRM THAT HE/SHE HAS LATEST APPROVED CONSTRUCTION DOCUMENTS FOR THIS LOCATION.

SUSTAINABILITY GUIDELINES

THE FOLLOWING GUIDELINES TO BE USED BY GENERAL CONTRACTOR ARE VOLUNTARY IN NATURE. IT IS HIGHLY RECOMMENDED THAT THE GENERAL CONTRACTOR FOLLOW THESE GUIDELINES TO THE EXTENT IT IS FEASIBLE.

- IMPROVE INDOOR AIR QUALITY:
 - REDUCE CONSTRUCTION DUST AND AIR PARTICULATES WITH DUST CONTAINMENT SYSTEMS AND/OR SHUT OFF CIRCULATING AIR.
 - CHANGE HVAC FILTERS AT THE CONCLUSION OF THE JOB.
 - USE LOW V.O.C. PAINTS, ADHESIVES, SEALANTS, ETC

PREFABRICATED BUILDING

THIS BUILDING IS BEING FABRICATED IN A CONTROLLED ENVIRONMENT AND TRANSFERRED TO THE JOB SITE. CJD ENGINEERING GROUP HAS BEEN ENGAGED TO CONDUCT 3rd PARTY INSPECTIONS OF ALL FABRICATION WITHIN THE 7 BREW COFFEE WAREHOUSE. THE INSPECTION WILL INCLUDE STRUCTURAL, FRAMING, BUILDING, PLUMBING AND ELECTRICAL.

TYPICAL SYMBOL LEGEND

DETAIL DESIGNATION DETAIL NUMBER 12/A3.4	SHEET NUMBER	ELEVATION HEIGHT T.O. WALL 106'-0"
SQUARE FOOTAGE ROOM TAG 101 150 SF	ROOM NAME 101 ROOM NUMBER	ELEVATION TAG 1 A1.1 1 1
DOOR TAG 101		CEILING HEIGHT 0'-0"
SECTION CUT TAG 1 101		WINDOW TAG W1
ROOF SLOPE 12 2		REVISION DELTA 1
WALL TYPE/ PARTITION TYPE W1		GRID BUBBLE 0
WALL PARTITION		ENLARGED DETAIL 1 101
EXISTING WALL		FINISH TAG PT-1

MATERIAL INDICATION

CONCRETE		FINISHED WOOD	
DIMENSIONAL LUMBER		GYPSUM BOARD	
RIGID INSULATION		PLYWOOD	
BATT OR BLOWN INSULATION		GLASS	
EARTH/BACKFILL		CMU	

ABBREVIATIONS

ACCOUST. ADD A.F.F. AF AL ALT. ALUM. ANCH. ARCH. @ B.B B.F. BD BKT. BLDG. BLK'G BM B.O. BRG BSMT C.S. CAB. C.C CEM. CF CFCI CI CLG C.O. COL CONC CONF CONN CONSTR CONT CONTR COORD CORR CTR CYL ¢ C.W. DP DBL DEG D.F. DEMO DIA. DIA.O DIAG DIM D.O. DTL DR D.S. EA ELEC ELEV ELEV E.W.C. EQUIP EXIST'G EXP EXT F.B.O. F.D. F.E. F.E.C. F.E.B. FIN F.G. FL FLASH'G FLR F.O.M FND	ACOUSTICAL ADDITIONAL ABOVE FINISH FLOOR AS FURNISHED AS INSTALLED ALTERNATE ALUMINUM ANCHOR ARCHITECT AT BOTTOM OF BEAM BOTTOM OF FOOTING BOARD BRACKET BUILDING BLOCKING BENCH MARK BOTTOM OF BEARING BASEMENT COUNTERSUNK H HIGH CENTER-TO-CENTER CEMENT CONTRACTOR FURNISHED CONTRACTOR INSTALLED CONTRACTOR INSTALLED CLEAN OUT COLUMN CONCRETE CONFERENCE CONNECTION CONSTRUCTION CONTINUOUS CONTRACTOR COORDINATE CORRUGATED/ CORRIDOR CENTER CYLINDER CENTERLINE COLD WATER DEEP DOUBLE DEGREE DRINKING FOUNTAIN DEMOLITION DIAGONAL DIMENSION DO-OVER DETAIL DOOR DOWNSPOUT EACH ELECTRICAL ELEVATION (VIEW) ELEVATOR ELECTRIC WATER COOLER EQUIPMENT EXISTING EXPOSED EXTERIOR / EXTENSION FURNISHED BY OTHERS FLOOR DRAIN FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FIRE EXTINGUISHER BRACKET FINISH FINISH GRADE FLOW LINE FLASHING FLOOR FACE OF MASONRY FOUNDATION	FR FRM FURN F.R.T. FTG FUR GA GAL GALV GC G.I. GLAZ GOV'T G.S. GEN GYPSUM HDWR H.C. HOL HORIZ H HT. HTG. HTR H.W. I.D. INSUL INT. INV JNT JSTS K.E.S. LAM LAV LG L.H.B. L.H.R.B. LIN LVR MAS MATL MAX MEZZ MFRD MFR MID MIN MISC MK M.O. MTD MTL MULL NON NTS O.A. O.C. OD OFCI OFOI O/H O/ OPN'G OPP PART P.E.M.B. PERIM P.G. PLAM PLAS PL PLUMB'G PLY P.P PR PVC Q.T. R	FIRE RETARDANT FRAME FURNISHED FIRE RETARDANT TREATED FOOTING FURRING GAUGE GALLON GALVANIZED GENERAL CONTRACTOR GLAZING GOVERNMENT GRAVEL STOP GENERAL GYPSUM HARDWARE HOLLOW CORE HOLLOW HORIZONTAL HIGH HEIGHT HEATING HEATER HOT WATER INSIDE DIAMETER INSULATION INTERIOR INVERT JOINT JOISTS KITCHEN EQUIPMENT SUPPLIER LAMINATE LAVATORY LONG LEFT HAND BEVEL LEFT HAND REVERSE BEVEL LINEAR / LINEAL LOUVER MASONRY MATERIAL MAXIMUM MEZZANINE MANUFACTURED MANUFACTURER MIDDLE MINIMUM MISCELLANEOUS MARK MASONRY OPENING MOUNTED METAL MULLION NONMINIMAL NOT TO SCALE OVERALL ON CENTER OUTSIDE DIAMETER OWNER FURNISHED CONTRACTOR INSTALLED OWNER FURNISHED OWNER INSTALLED OVERHEAD OPENING OPPOSITE PARTITION PRE-ENGINEERED METAL BUILDING PERIMETER PRESENT GRADE PLASTIC LAMINATE PLASTIC PROPERTY LINE PLUMBING PLYWOOD POWER POLE PAIR POLYVINYL CHLORIDE QUARRY TILE RADIUS	RCP RE R.H.B. R.H.R.B. RL RM R.O. RES. REQ'D REQMT R.T.V. REG SAF SAN SCHED S.C. SECT SHT SIM SPEC STND STD STL STOR STRUCT SURF SUSP SYST S.W. TYP. T.O. UN.O VCP VEST VERT VOL V.T.R. VCT W W/ WD W.D. WDW WRB WWF W.P. WT	REINFORCED CONCRETE PIPE REFER RIGHT HAND BEVEL RIGHT HAND REVERSE BEVEL RAIN LEADER ROOM ROUGH OPENING RESILIENT TILE REQUIRED REQUIREMENT ROTARY-TURBINE VENT REGULAR SAFETY SANITARY SCHEDULE SOLID CORE SECTION SHEET SIMILAR SPECIFICATION STANDARD STUD STEEL STORAGE STRUCTURE / STRUCTURAL SURFACE SUSPENDED SYSTEM STORM WATER TYPICAL TOP OF UNLESS NOTED OTHERWISE VITRIFIED-CLAY-PIPE VESTIBULE VERTICAL VOLUME VENT-THRU-ROOF VINYL COMPOSITION TILE WIDE WITH WOOD WINDOW DIMENSION WINDOW WEATHER RESISTANT BARRIER WELDED WIRE FABRIC WEATHER PROOF WEIGHT
---	--	--	--	--	---




ARCHITECT OF RECORD:

NAME: ADAM KREHER

LICENSE NO. 2011002764

PROJECT NUMBER:
220333 7BL5

REVISION:  ADD 001
6/17/22

G0.1

GENERAL NOTES &
SCHEDULES
DATE: APRIL 22, 2022



FLOOD STATEMENT:
THE ACCURACY OF ANY FLOOD HAZARD DATA SHOWN HEREON IS SUBJECT TO MAP SCALE UNCERTAINTY AND TO ANY OTHER UNCERTAINTY IN LOCATION OR ELEVATION ON THE REFERENCED FLOOD INSURANCE RATE MAP. THE SURVEYED PROPERTY LIES WITHIN FLOOD HAZARD ZONE "X, NON-SHADED" AS SAID PROPERTY PLOTS BY SCALE ON THE FLOOD INSURANCE RATE MAP CITY OF LEE'S SUMMIT, COMMUNITY PANEL NO. 29095C0409C, EFFECTIVE ON 01/20/2017.

<p><u>DATUM BENCHMARK:</u></p> <p>DATUM IS U.S. SURVEY FEET AND REFERS TO NAVD80</p> <p>DATUM DERIVED FROM CONNECTIONS TO NATIONAL CORS</p> <p>NETWORK VIA GPS STATIC SESSIONS ON PROJECT</p> <p>CONTROL PROCESSED WITH THE NATIONAL GEODETIC</p> <p>SURVEY'S OPUS PROJECTS UTILITY. ORTHOMETRIC</p> <p>HEIGHT WAS CALCULATED USING THE GEOID12B MODEL.</p>	<p><u>BENCHMARKS:</u></p> <p>JA-43: 3" ALUM DISK STAMPED JA-43 ON THE WEST SIDE OF</p> <p>DOUGLAS AND 44± SOUTH OF THE S.E. BOUNDARY CORN</p> <p>OF THE SURVEY. ELEV= 10.1</p> <p>BS#60: FOUND "SQUARE" CUT ON THE BACK OF CURB ON THE SO</p> <p>SIDE OF A PRIVATE DRIVE ON THE NORTH SIDE OF LOT 3</p>
---	---

INFORMATION OF ABOVE GROUND OBSERVABLE EVIDENCE, AND/OR THE SCALING AND PLOTTING OF EXISTING UTILITY MAPS. DRAWINGS AVAILABLE TO THE SURVEYOR AT THE TIME OF SURVEY. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. FURTHERMORE, THE SURVEYOR

SAFETY NOTICE TO CONTRACTOR:


WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

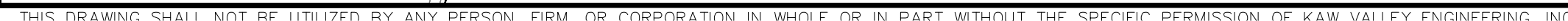
DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER KAW VALLEY ENGINEERING, INC. NOR ANY PERSONNEL CAN OR DO WARRANTY THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE KAW VALLEY ENGINEERING PERSONNEL INSPECT AND CONTROL THE PHYSICAL CONSTRUCTION ON A CONTEMPORARY BASIS AT THE SITE.

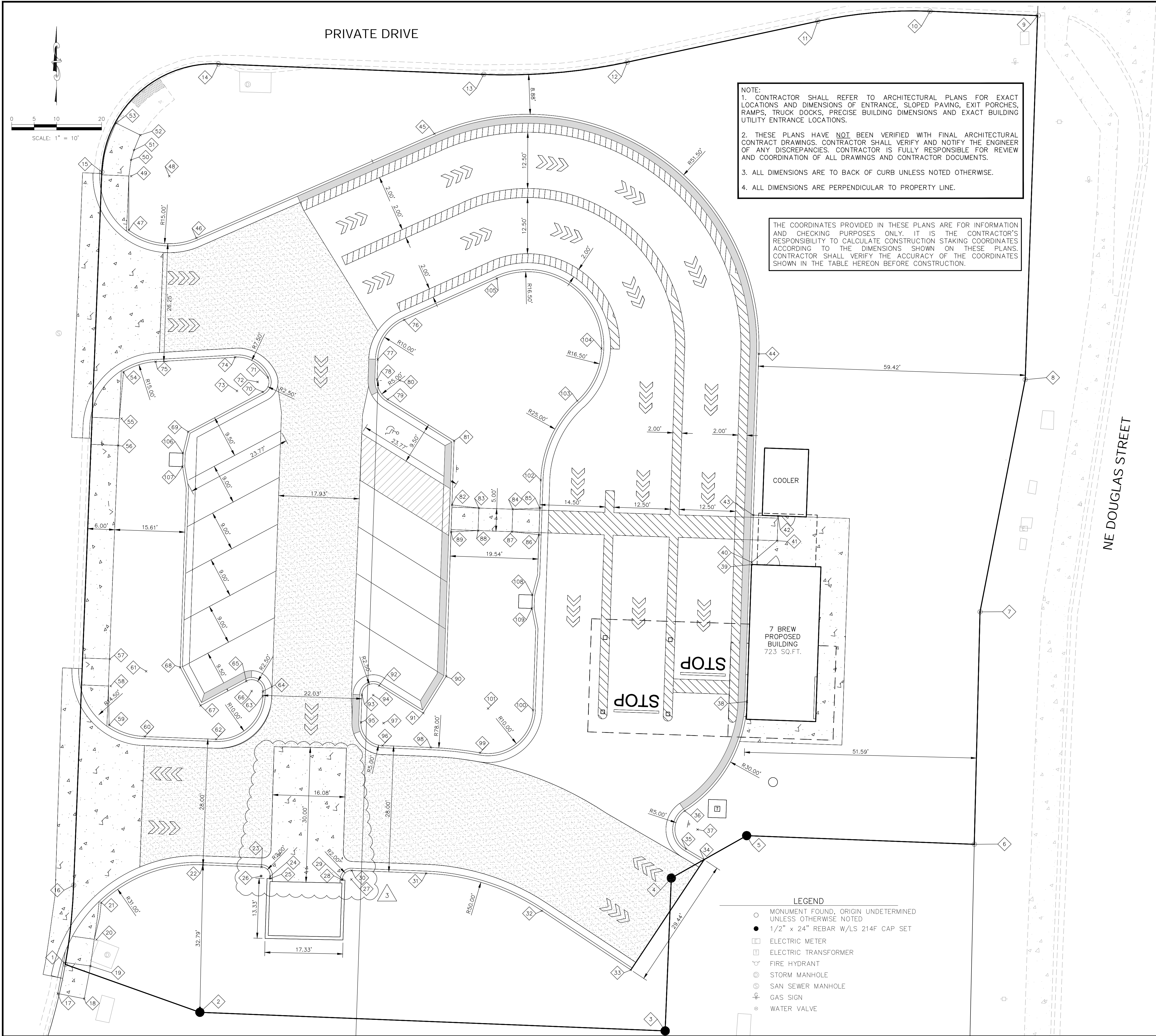
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND IS NOT NECESSARILY IDENTICAL TO THE ACTUAL LOCATION AND/OR ELEVATION OF THE UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND/OR ELEVATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR

Know what's **below.**
Call before you dig.

<div>7 BREW</div> <div>1410 N.E. DOUGLAS STREET</div> <div>LEE'S SUMMIT, MO. 64086</div>		<div></div> <div>KAW VALLEY ENGINEERING</div> <div>KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/23</div>		<div></div> <div>MARTIN T. ARLING ENGINEER MO # 2009002355</div>		<table><tr><th>REV</th><th>DATE</th><th>DESCRIPTION</th><th>DSN</th><th>DWN</th><th>CHK</th></tr><tr><td>4</td><td>07/05/22</td><td>PER CITY COMMENTS</td><td>MTA</td><td>JNG</td><td></td></tr><tr><td>3</td><td>06/22/22</td><td>PER CITY COMMENTS</td><td>MTA</td><td>JNG</td><td></td></tr><tr><td>2</td><td>05/06/22</td><td>PER OWNER COMMENTS</td><td>MTA</td><td>JNG</td><td></td></tr><tr><td>1</td><td>04/08/22</td><td>CHECK SET</td><td>MTA</td><td>JNG</td><td></td></tr><tr><td>0</td><td>03/02/22</td><td>INITIAL ISSUE</td><td>ARM</td><td>JNG</td><td></td></tr></table>		REV	DATE	DESCRIPTION	DSN	DWN	CHK	4	07/05/22	PER CITY COMMENTS	MTA	JNG		3	06/22/22	PER CITY COMMENTS	MTA	JNG		2	05/06/22	PER OWNER COMMENTS	MTA	JNG		1	04/08/22	CHECK SET	MTA	JNG		0	03/02/22	INITIAL ISSUE	ARM	JNG	
								REV	DATE	DESCRIPTION	DSN	DWN	CHK																														
								4	07/05/22	PER CITY COMMENTS	MTA	JNG																															
								3	06/22/22	PER CITY COMMENTS	MTA	JNG																															
								2	05/06/22	PER OWNER COMMENTS	MTA	JNG																															
1	04/08/22	CHECK SET	MTA	JNG																																							
0	03/02/22	INITIAL ISSUE	ARM	JNG																																							
PROJ. NO.		B21D4397																																									
DESIGNER		DRAWN BY																																									
4397DEMO		JNG																																									
CFN																																											
4397DEMO																																											
SHEET		REV																																									
C100		4																																									





NOTE:
1. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRANCE, SLOPED PAVING, EXIT PORCHES, RAMPS, TRUCK DOCKS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
2. THESE PLANS HAVE NOT BEEN VERIFIED WITH FINAL ARCHITECTURAL CONTRACT DRAWINGS. CONTRACTOR SHALL VERIFY AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES. CONTRACTOR IS FULLY RESPONSIBLE FOR REVIEW AND COORDINATION OF ALL DRAWINGS AND CONTRACTOR DOCUMENTS.
3. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS NOTED OTHERWISE.
4. ALL DIMENSIONS ARE PERPENDICULAR TO PROPERTY LINE.

THE COORDINATES PROVIDED IN THESE PLANS ARE FOR INFORMATION AND CHECKING PURPOSES ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALCULATE CONSTRUCTION STAKING COORDINATES ACCORDING TO THE DIMENSIONS SHOWN ON THESE PLANS. CONTRACTOR SHALL VERIFY THE ACCURACY OF THE COORDINATES SHOWN IN THE TABLE HEREON BEFORE CONSTRUCTION.

COORDINATE TABLE				COORDINATE TABLE			
	NORTHING	EASTING	DESCRIPTION		NORTHING	EASTING	DESCRIPTION
1	1008966.45	2823007.09	PL	61	1009031.62	2823025.07	RP
2	1008955.80	2823037.01	PL	62	1009016.49	2823040.61	BC
3	1008951.67	2823140.48	PL	63	1009026.11	2823050.98	BC
4	1008985.64	2823141.83	PL	64	1009027.11	2823051.02	BC
5	1008995.08	2823158.59	PL	65	1009029.42	2823047.35	BC
6	1008993.15	2823209.21	PL	66	1009027.21	2823048.53	RP
7	1009044.83	2823210.47	PL	67	1009023.99	2823037.17	BC
8	1009096.44	2823220.54	PL	68	1009032.49	2823032.63	BC
9	1009177.36	2823223.28	PL	69	1009084.84	2823034.40	BC
10	1009178.30	2823199.35	PL	70	1009093.71	2823051.03	BC
11	1009176.11	2823174.40	PL	71	1009096.90	2823052.15	BC
12	1009167.01	2823132.03	PL	72	1009095.91	2823049.85	RP
13	1009164.28	2823100.12	PL	73	1009093.93	2823045.26	RP
14	1009166.62	2823041.11	PL	74	1009101.42	2823044.84	BC
15	1009142.59	2823015.20	PL	75	1009100.42	2823027.16	BC
16	1008984.04	2823008.93	PL	76	1009109.72	2823082.46	BC
17	1008959.98	2823005.41	SW	77	1009100.93	2823076.56	BC
18	1008958.84	2823011.30	SW	78	1009096.47	2823076.41	BC
19	1008966.09	2823012.66	SW	79	1009092.06	2823078.76	BC
20	1008971.96	2823014.03	SW	80	1009096.30	2823081.41	RP
21	1008980.19	2823015.08	SW	81	1009082.84	2823093.55	BC
22	1008988.58	2823037.71	BC	82	1009068.58	2823093.07	SW
23	1008988.09	2823050.70	BC	83	1009067.88	2823099.04	SW
24	1008986.02	2823052.63	BC	84	1009067.63	2823106.58	SW
25	1008985.53	2823052.62	BC	85	1009067.89	2823112.60	SW
26	1008986.09	2823050.63	RP	86	1009061.97	2823112.40	SW
27	1008985.33	2823070.69	RP	87	1009062.63	2823106.42	SW
28	1008985.20	2823068.69	BC	88	1009062.89	2823098.88	SW
29	1008985.37	2823068.69	BC	89	1009062.59	2823092.86	SW
30	1008987.33	2823070.77	BC	90	1009030.49	2823091.78	BC
31	1008986.70	2823087.29	BC	91	1009022.31	2823086.68	BC
32	1008978.37	2823113.06	BC	92	1009028.43	2823076.86	BC
33	1008965.24	2823132.83	BC	93	1009026.40	2823073.04	BC
34	1008989.75	2823149.13	BC	94	1009026.31	2823075.54	RP
35	1008992.15	2823145.10	BC	95	1009020.25	2823072.83	BC
36	1009000.58	2823144.84	BC	96	1009015.09	2823077.64	BC
37	1008996.44	2823147.65	BC	97	1009020.08	2823077.83	RP
38	1009024.86	2823158.67	BC	98	1009014.68	2823088.35	BC
39	1009055.33	2823159.70	BC	99	1009013.48	2823099.30	BC
40	1009055.82	2823159.72	SW	100	1009022.98	2823111.08	BC
41	1009060.63	2823165.38	SW	101	1009023.32	2823101.08	RP
42	1009066.14	2823165.57	SW	102	1009074.10	2823112.81	BC
43	1009066.32	2823160.07	SW	103	1009091.72	2823120.94	BC
44	1009102.16	2823161.28	BC	104	1009103.34	2823126.30	BC
45	1009151.08	2823089.17	BC	105	1009118.96	2823103.06	BC
46	1009127.92	2823036.24	BC	106	1009080.09	2823033.24	BC
47	1009129.67	2823021.21	BC	107	1009077.09	2823033.14	BC
48	1009141.66	2823030.22	RP	108	1009048.58	2823110.94	BC
49	1009141.68	2823021.72	SW	109	1009045.58	2823110.84	BC
50	1009145.27	2823021.69	SW				
51	1009147.47	2823022.34	SW				
52	1009150.80	2823023.76	SW				
53	1009153.47	2823018.38	SW				
54	1009098.15	2823020.03	SW				
55	1009087.78	2823019.60	SW				
56	1009081.80	2823018.84	SW				
57	1009034.34	2823017.01	SW				
58	1009028.33	2823017.17	SW				
59	1009019.65	2823016.84	SW				
60	1009017.10	2823024.75	BC				

COORDINATE
TABLE LEGEND

BC = BACK OF CURB
SW = EDGE OF SIDEWALK
RP = RADIUS POINT
PL = PROPERTY LINE

COORDINATE
TABLE LEGEND
BC = BACK OF CURB
SW = EDGE OF SIDEWALK
RP = RADIUS POINT
PL = PROPERTY LINE

7 BREW
1410 N.E. DOUGLAS STREET
LEE'S SUMMIT, MO. 64086

CONSTRUCTION PLANS
DIMENSION PLAN

PROJ. NO. B21D4397
DESIGNER MTA DRAWN BY JNG
CFN 4397DIM
SHEET C300 REV 4

8040 N. OAK TRAFFICWAY
KANSAS CITY, MISSOURI 64118
PH: (816) 461-6651
lic@kvweng.com | www.kvweng.com

K&W VALLEY ENGINEERING
KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842.
EXPIRES 12/31/23

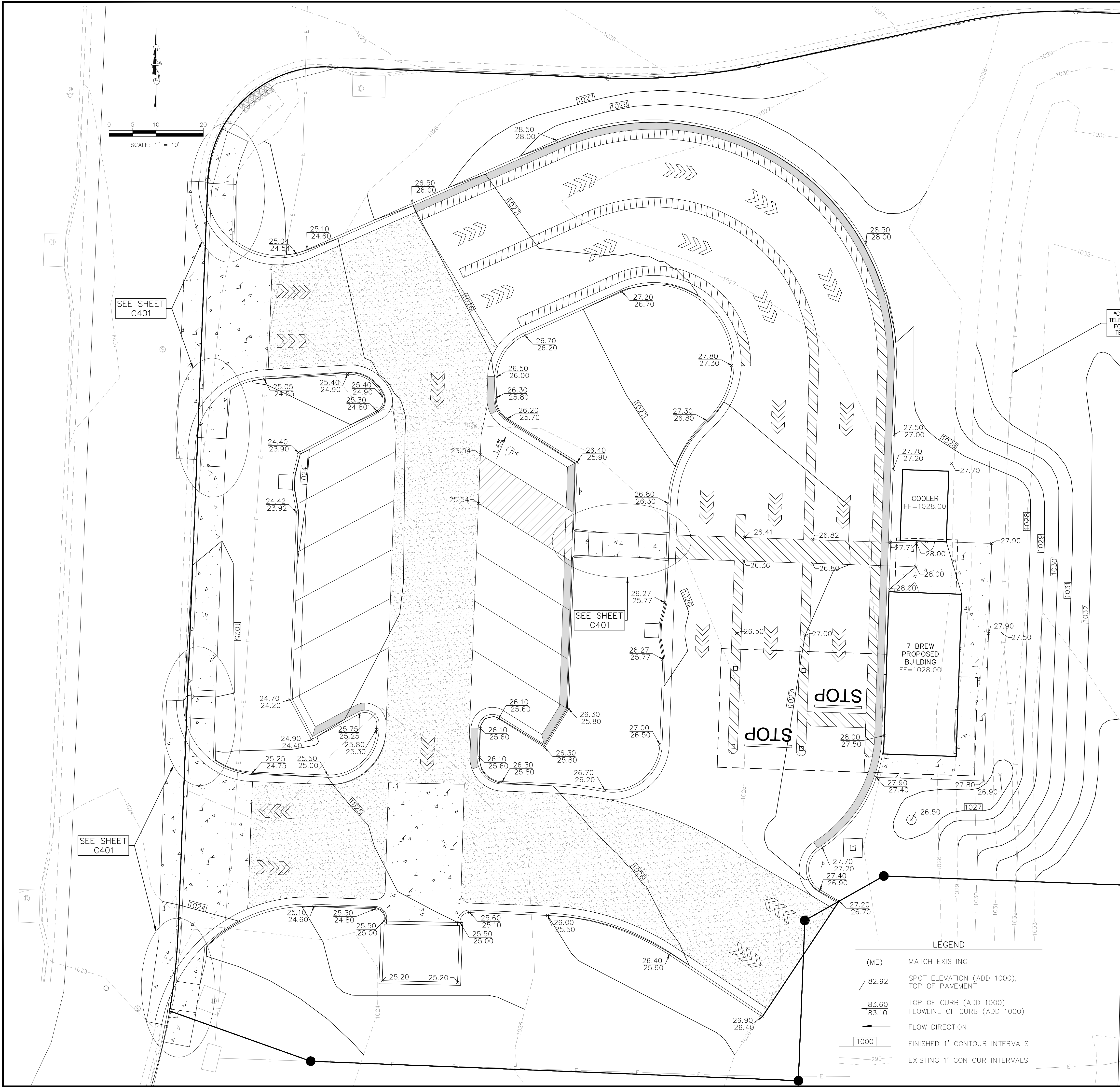
STATE OF MISSOURI
MARTIN T. ARLING
NUMBER
PE-2009002955
07/23/22

MARTIN T. ARLING
ENGINEER
MO # 2009002955

PER CITY COMMENTS
07/05/22
PER CITY COMMENTS
06/22/22
PER OWNER COMMENTS
05/06/22
CHECK SET
04/08/22
INITIAL ISSUE
03/02/22

REV DATE DESCRIPTION
4 07/05/22
3 06/22/22
2 05/06/22
1 04/08/22
0 03/02/22

MTA JNG
MTA JNG
MTA JNG
MTA JNG
ARM JNG
DSN DWN
CHK



IF DISCREPANCIES EXIST BETWEEN THE GRADING NOTES AND THE RECOMMENDATIONS OUTLINED IN THE PROJECT GEOTECHNICAL REPORT, THE RECOMMENDATIONS OUTLINED IN THE GEOTECHNICAL REPORT SHALL GOVERN.

- NOTE:
1. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRANCE, SLOPED PAVING, EXIT PORCHES, RAMPS, TRUCK DOCKS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
 2. THESE PLANS HAVE NOT BEEN VERIFIED WITH FINAL ARCHITECTURAL CONTRACT DRAWINGS. CONTRACTOR SHALL VERIFY AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES. CONTRACTOR IS FULLY RESPONSIBLE FOR REVIEW AND COORDINATION OF ALL DRAWINGS AND CONTRACT DOCUMENTS.

THE COORDINATES PROVIDED ON THIS PLAN ARE FOR INFORMATION AND CHECKING PURPOSES ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALCULATE CONSTRUCTION STAKING COORDINATES ACCORDING TO THE DIMENSIONS SHOWN ON THESE PLANS. CONTRACTOR SHALL VERIFY THE ACCURACY OF THE COORDINATES SHOWN HEREON BEFORE CONSTRUCTION.

UTILITY STATEMENT:
THE UNDERGROUND UTILITIES SHOWN HEREON ARE FROM FIELD SURVEY INFORMATION OF ONE-CALL LOCATED UTILITIES, FIELD SURVEY INFORMATION OF ABOVE GROUND OBSERVABLE EVIDENCE, AND/OR THE SCALING AND PLOTTING OF EXISTING UTILITY MAPS AND DRAWINGS AVAILABLE TO THE SURVEYOR AT THE TIME OF SURVEY. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. FURTHERMORE, THE SURVEYOR DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES BY EXCAVATION UNLESS OTHERWISE NOTED ON THIS SURVEY.

SAFETY NOTICE TO CONTRACTOR:
IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

WARRANTY / DISCLAIMER:
THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER KAW VALLEY ENGINEERING, INC NOR ITS PERSONNEL CAN OR DO WARRANTY. THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE KAW VALLEY ENGINEERING PERSONNEL INSPECT AND CONTROL THE PHYSICAL CONSTRUCTION ON A

CAUTION - NOTICE TO CONTRACTOR:
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.



3
EXTENSIVE
REVISIONS TO
THIS SHEET

*COORDINATE WITH
TELEPHONE COMPANY
FOR LOWERING OF
TELEPHONE LINE*

- LEGEND
- (ME) MATCH EXISTING
 - 82.92 SPOT ELEVATION (ADD 1000), TOP OF PAVEMENT
 - 83.60 TOP OF CURB (ADD 1000)
 - 83.10 FLOWLINE OF CURB (ADD 1000)
 - FLOW DIRECTION
 - [1000] FINISHED 1' CONTOUR INTERVALS
 - 290 EXISTING 1' CONTOUR INTERVALS

4	07/05/22	PER CITY COMMENTS	MTA	JNG	DSN	DWN	CHK
3	06/22/22	PER CITY COMMENTS	MTA	JNG			
2	05/06/22	PER OWNER COMMENTS	MTA	JNG			
1	04/08/22	CHECK SET	MTA	JNG			
0	03/02/22	INITIAL ISSUE	ARM	JNG			
REV	DATE	DESCRIPTION					

STATE OF MISSOURI
MARTIN T. ARLING
NUMBER
PE-2009002955
PROFESSIONAL ENGINEER

MARTIN T. ARLING
ENGINEER
MO # 2009002955

8040 N. OAK TRAFFICWAY
KANSAAS CITY, MISSOURI 64118
PH: (816) 452-1238 | 452-6651
tcd@kaveng.com | www.kaveng.com

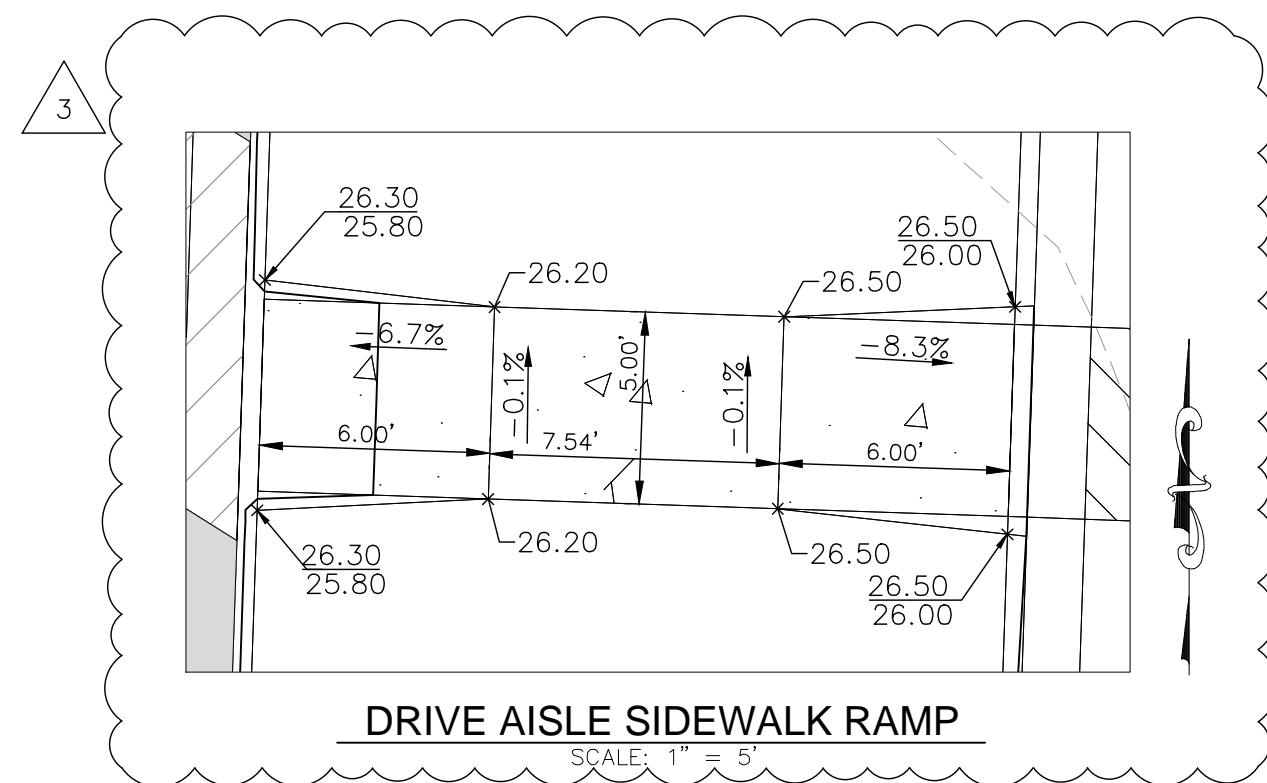
KAW VALLEY ENGINEERING
KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842.
EXPIRES 12/31/23

7 BREW
1410 N.E. DOUGLAS STREET
LEE'S SUMMIT, MO. 64086

CONSTRUCTION PLANS
GRADING PLAN

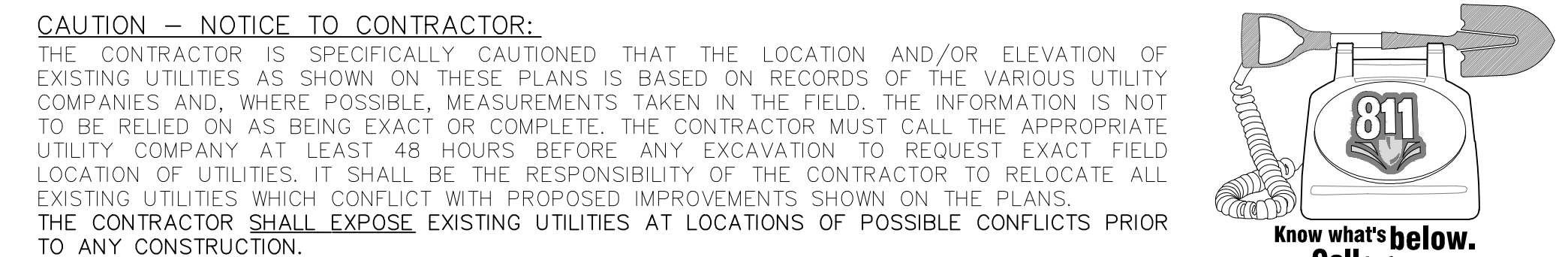
PROJ. NO. B21D4397
DESIGNER MTA DRAWN BY JNG
CFN 4397GP
SHEET C400 REV 4

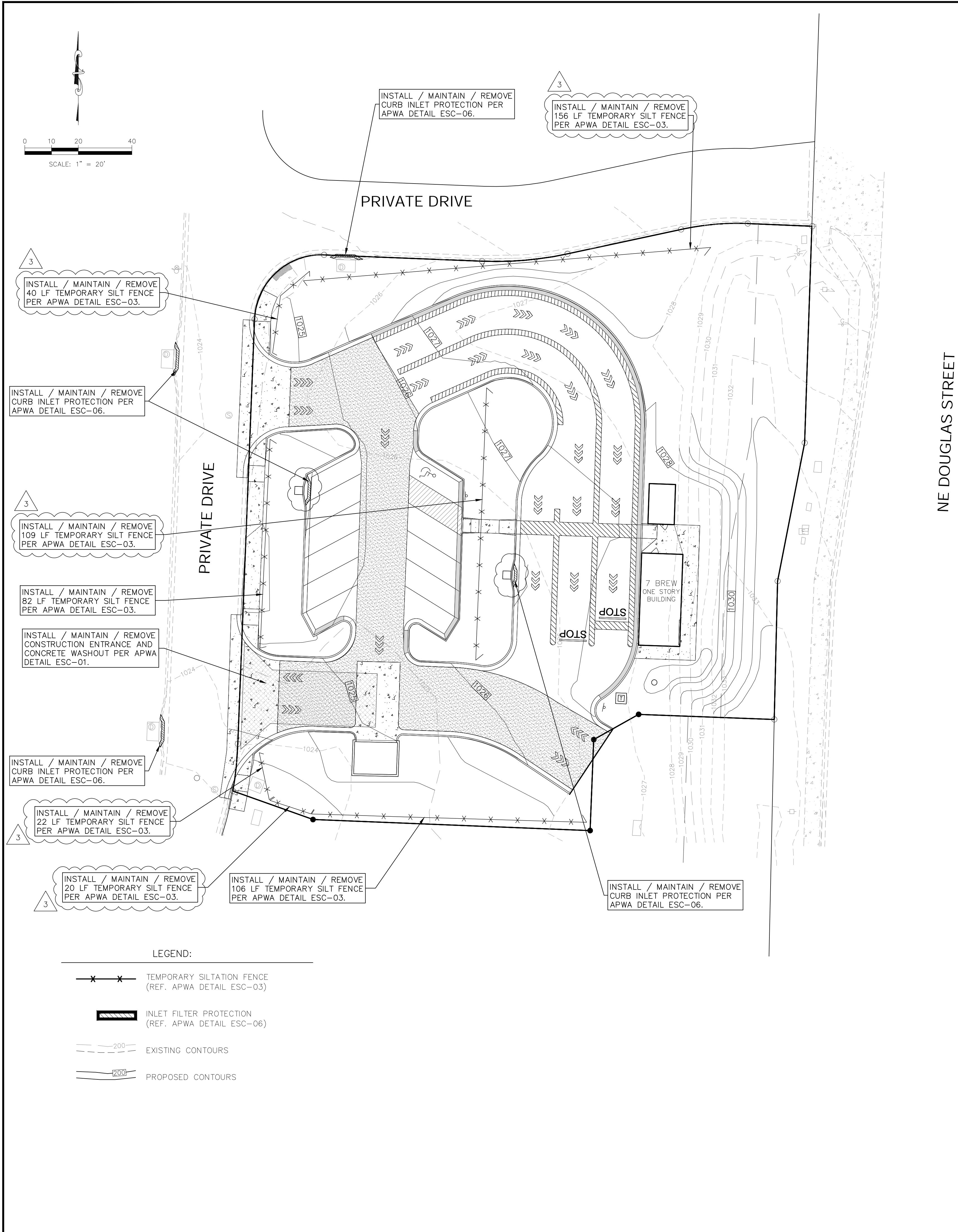
1. THE CONSTRUCTION AREA SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL AND ORGANIC MATTER FROM ALL AREAS TO BE OCCUPIED BY BUILDING AND PAVING. TOPSOIL FOR REPLACEMENT ON SLOPES MAY BE STOCKPILED ON SITE. EXCESS TOPSOIL MAY BE WASTED IN FILL SLOPES PROVIDED THAT NO TOPSOIL WILL BE WASTED WITHIN 10 FEET OF THE EDGE OF THE BUILDING OR PARKING AREA. BURNING OF TIMBER WILL NOT BE PERMITTED UNLESS APPROVAL IS OBTAINED FROM GOVERNING OFFICIALS. STRIPPING EXISTING TOPSOIL AND ORGANIC MATTER SHALL BE TO A MINIMUM DEPTH OF 6 INCHES.
2. AREAS TO RECEIVE FILL SHALL BE SCARIFIED AND THE TOP 8-INCH DEPTH COMPACTED TO 95% STANDARD PROCTOR DENSITY. ANY UNSUITABLE AREAS SHALL BE UNDERCUT AND REPLACED WITH SUITABLE MATERIAL BEFORE ANY FILL MATERIAL CAN BE APPLIED.
3. OFF-SITE FILL MATERIAL SHALL HAVE A PLASTICITY INDEX OF 25 OR LESS, A LIQUID LIMIT OF 45 OR LESS AND CONTAIN NO ROCK LARGER THAN FOUR INCHES. OFF-SITE FILL MATERIAL SHALL BE APPROVED BY THE OWNER PRIOR TO BRINGING ON SITE.
4. EARTHWORK UNDER THE BUILDING SHALL COMPLY WITH THE PROJECT ARCHITECTURAL PLANS. OTHER FILL MATERIAL SHALL BE MADE IN LIFTS NOT TO EXCEED EIGHT INCHES DEPTH COMPACTED TO 95% STANDARD PROCTOR DENSITY. FILL MATERIAL MAY INCLUDE ROCK FROM ON-SITE EXCAVATION IF CAREFULLY PLACED SO THAT LARGE STONES ARE WELL DISTRIBUTED AND VOIDS ARE COMPLETELY FILLED WITH SMALLER STONES, EARTH, SAND OR GRAVEL TO FURNISH A SOLID EMBANKMENT. NO ROCK LARGER THAN THREE INCHES IN ANY DIMENSION NOR ANY SHALE SHALL BE PLACED IN THE TOP 12 INCHES OF EMBANKMENT.
5. AREAS THAT ARE TO BE CUT TO SUBGRADE LEVELS SHALL BE PROOF ROLLED WITH A MODERATELY HEAVY LOADED DUMP TRUCK OR SIMILAR APPROVED CONSTRUCTION EQUIPMENT TO DETECT UNSUITABLE SOIL CONDITIONS.
6. IN ALL AREAS OF EXCAVATION, IF UNSUITABLE SOIL CONDITIONS ARE ENCOUNTERED, A QUALIFIED GEOTECHNICAL ENGINEER SHALL RECOMMEND TO THE OWNER THE METHODS OF UNDERCUTTING AND REPLACEMENT OF PROPERLY COMPACTED, APPROVED FILL MATERIAL. ALL PROOFROLLING AND UNDERCUTTING SHOULD BE PERFORMED DURING A PERIOD OF DRY WEATHER.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
8. ALL SLOPES ARE TO BE 3:1 OR FLATTER UNLESS OTHERWISE INDICATED.
9. ALL SLOPES EXCEEDING 3:1 SHALL BE PROTECTED BY RIP RAP, CONCRETE PAVING, OR OTHER METHODS INDICATED ON THESE PLANS, THAT WILL PREVENT EROSION AND PLACED SUCH THAT THE SURFACE IS FLUSH WITH SURROUNDING GROUND AND SHAPED TO CHANNEL WATER IN DIRECTIONS INDICATED.
10. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND FOUR INCHES OF TOPSOIL APPLIED. IF ADEQUATE TOPSOIL IS NOT AVAILABLE ON-SITE, THE CONTRACTOR SHALL PROVIDE TOPSOIL, APPROVED BY THE OWNER, AS NEEDED. THE AREA SHALL THEN BE SEEDED, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.
11. CONTRACTOR SHALL USE SILT FENCE, BALES OF HAY OR OTHER MEANS OF CONTROLLING EROSION ALONG THE EDGE OF THE PROPERTY OR OTHER BOTTOM OF SLOPE LOCATIONS.
12. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS.
13. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
14. IT IS NOT THE DUTY OF THE ENGINEER OR THE OWNER TO REVIEW THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE AT ANY TIME DURING CONSTRUCTION.
15. HANDICAP STALLS SHALL MEET ADA REQUIREMENTS AND SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION AT THE BUILDING ENTRY AND ACCESSIBLE PARKING STALLS. SLOPES EXCEEDING 2.0% WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
16. PIPE LENGTHS ARE CENTER TO CENTER OF STRUCTURE OR TO END OF END SECTIONS.



**Know what's below.
Call before you dig.**

7 BREW											
1410 N.E. DOUGLAS STREET											
LEE'S SUMMIT, MO. 64086											
CONSTRUCTION PLANS											
GRADING PLAN NOTES											
PROJ. NO.						B21D4397					
DESIGNER			MTA			DRAWN BY			JNG		
CFN						4397GP					
SHEET			C401			REV			4		





EROSION CONTROL NOTES:

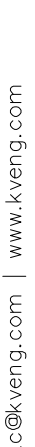
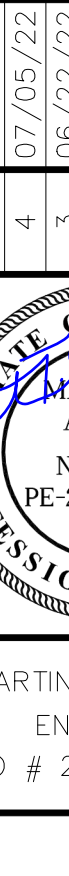
TEMPORARY SEEDING

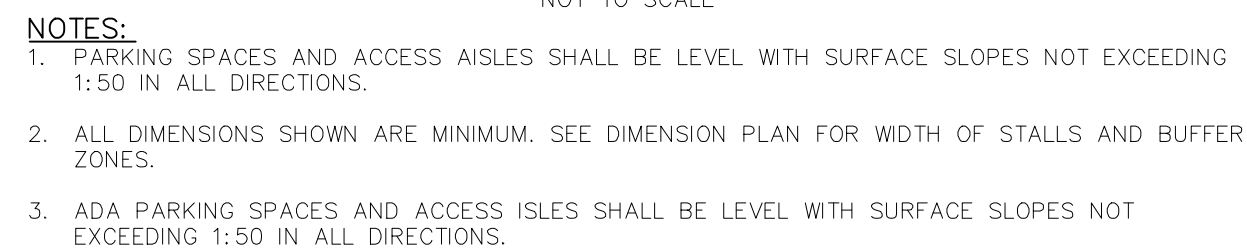
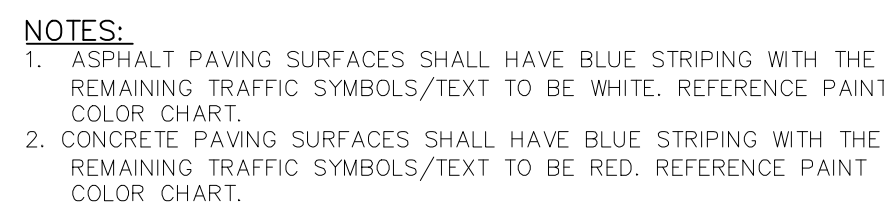
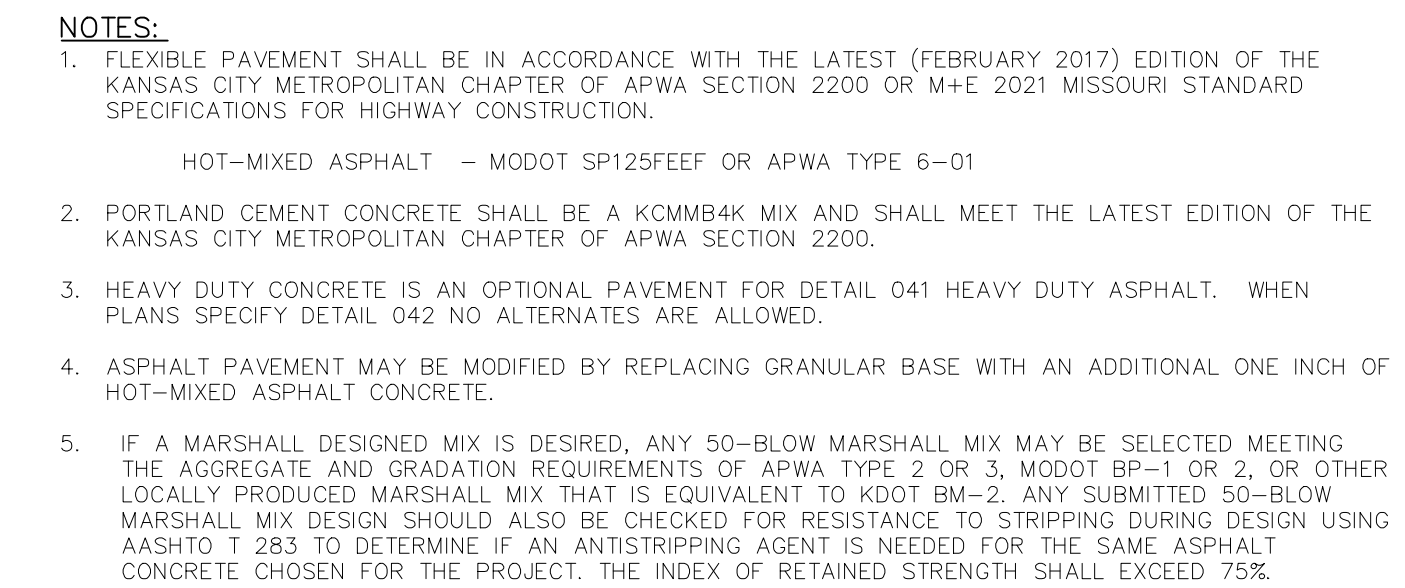
PERMANENT SEEDING

SAFETY NOTICE TO CONTRACTOR:

WARRANTY / DISCLAIMER:

CAUTION – NOTICE TO CONTRACTOR:



7 BREW 1410 N.E. DOUGLAS STREET LEE'S SUMMIT, MO. 64086		PROJ. NO.		B21D04397		CONSTRUCTION PLANS EROSION CONTROL PLAN		 KAW VALLEY ENGINEERING KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/23				MARTIN T. ARLING ENGINEER MO # 2009002955		<table><tr><th>REV</th><th>DATE</th><th>DESCRIPTION</th></tr><tr><td>0</td><td>03/02/22</td><td>INITIAL ISSUE</td></tr><tr><td>1</td><td>04/08/22</td><td>CHECK SET</td></tr><tr><td>2</td><td>05/06/22</td><td>PER OWNER COMMENTS</td></tr><tr><td>3</td><td>06/22/22</td><td>PER CITY COMMENTS</td></tr><tr><td>4</td><td>07/05/22</td><td>PER CITY COMMENTS</td></tr></table>		REV	DATE	DESCRIPTION	0	03/02/22	INITIAL ISSUE	1	04/08/22	CHECK SET	2	05/06/22	PER OWNER COMMENTS	3	06/22/22	PER CITY COMMENTS	4	07/05/22	PER CITY COMMENTS						
												REV	DATE			DESCRIPTION																							
0	03/02/22	INITIAL ISSUE																																					
1	04/08/22	CHECK SET																																					
2	05/06/22	PER OWNER COMMENTS																																					
3	06/22/22	PER CITY COMMENTS																																					
4	07/05/22	PER CITY COMMENTS																																					
DESIGNER		MTA		DRAWN BY		JNG																																	
CFN		4397ECF																																					
SHEET		C600		REV		4																																	

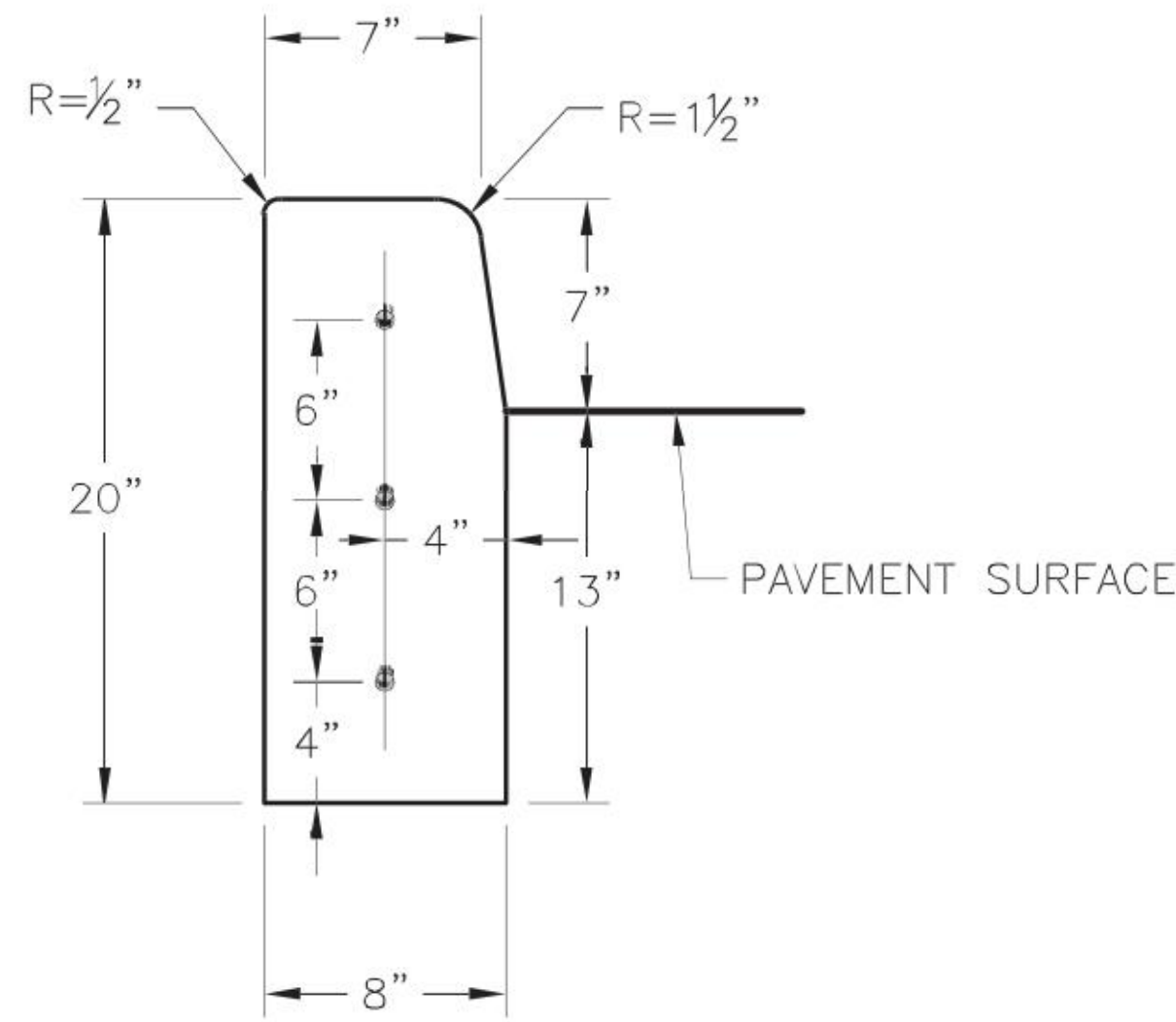


1. SUBGRADE MUST BE OF STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
2. 1.5% CROSS SLOPE MUST BE MAINTAINED THROUGH DRIVEWAYS.
3. KCMMB 4K CONCRETE MIX SHALL BE REQUIRED FOR ALL SIDEWALKS/SHARED-USE PATHS.
4. ALL SIDEWALK/SHARED-USE PATHS SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG).
5. AN ISOLATION JOINT SHALL BE PLACED AT A MAXIMUM OF 100 FT. CONSTRUCTION JOINTS SHALL BE PLACED THE SAME WIDTH OF SIDEWALK/SHARED-USE PATHS, BUT NO GREATER THAN 10 FT.
6. AN ISOLATION JOINT SHALL BE PLACED WHERE THE SIDEWALK/SHARED-USE PATHS MEETS A RESIDENTIAL DRIVEWAY.
7. SHARED-USE PATHS WIDTH SHALL BE 10 FT. WIDE.
8. SIDEWALK/SHARED-USE PATHS FINISHING SHALL BE FULL BROOM FINISH OR AS DIRECTED BY CITY INSPECTOR.
9. WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.

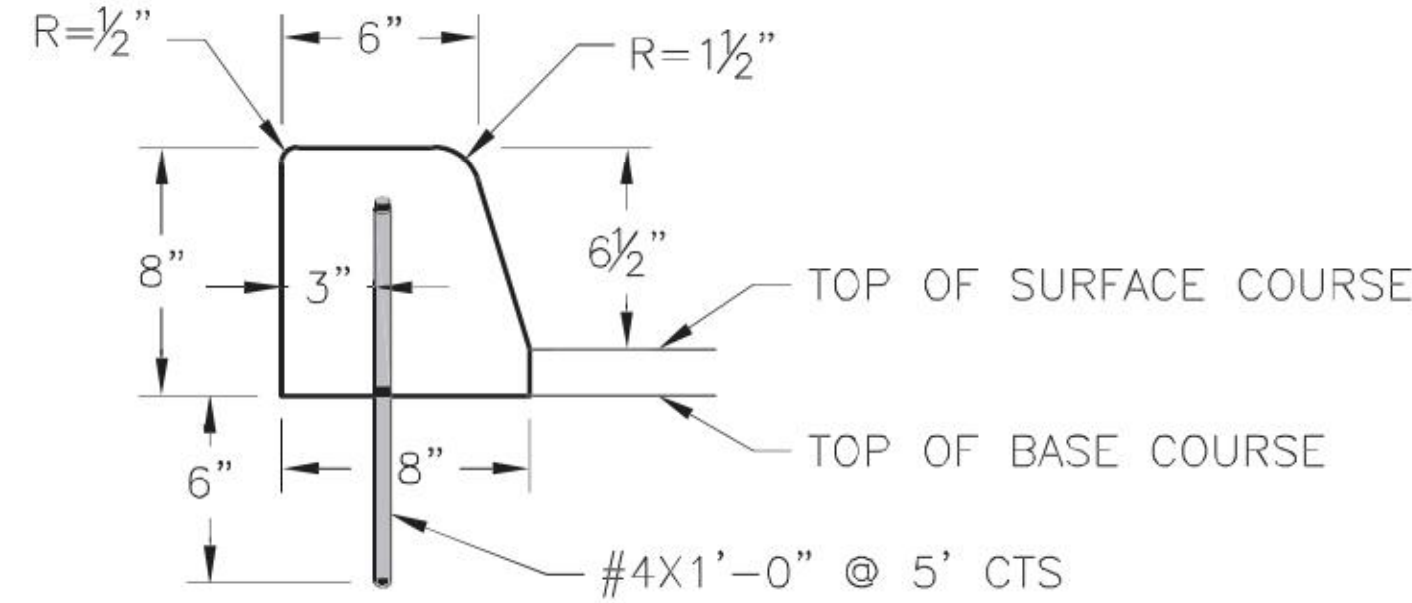


GEN-2

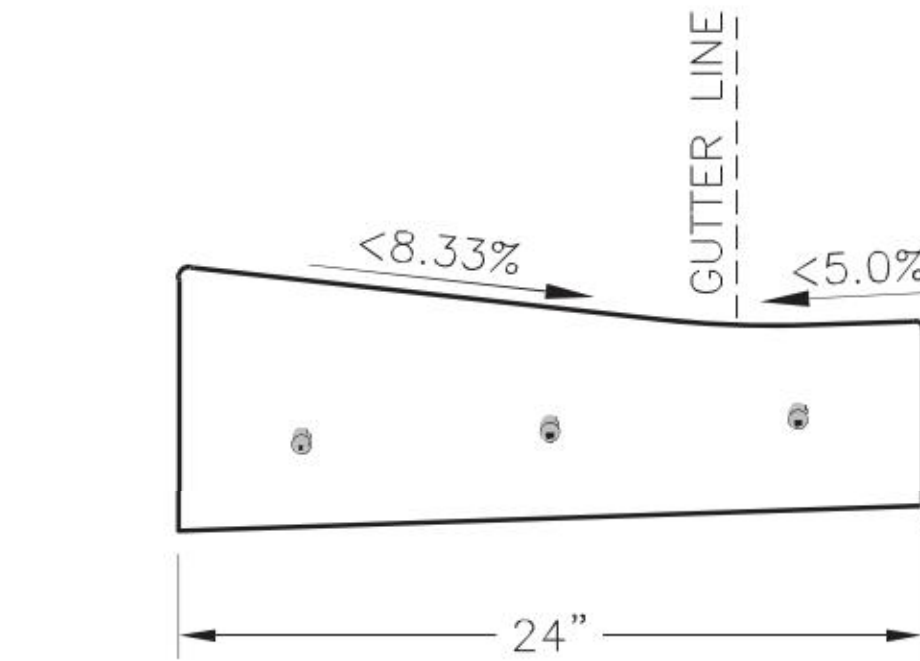
7 BREW 1410 N.E. DOUGLAS STREET LEE'S SUMMIT, MO. 64086		 KAW VALLEY ENGINEERING <small>KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/23</small>				CONSTRUCTION PLANS DETAIL SHEET	
PROJ. NO. B21D4397		DESIGNER MTA DRAWN BY JNG		CFN 4397DET		SHEET C700 REV 4	
8040 N. OAK TRAFFICWAY KANSAS CITY, MISSOURI 64118 PH. (816) 468-3858 FAX (816) 468-6651 kceengineering.com www.tarling.com		MARTIN T. ARLING ENGINEER MO # 2009002955		07/05/22 06/22/22 05/06/22 04/08/22 03/02/22		PER CITY COMMENTS PER CITY COMMENTS PER OWNER COMMENTS CHECK SET INITIAL ISSUE	
		REV		DATE		DESCRIPTION	
						DSN DWN CHK	



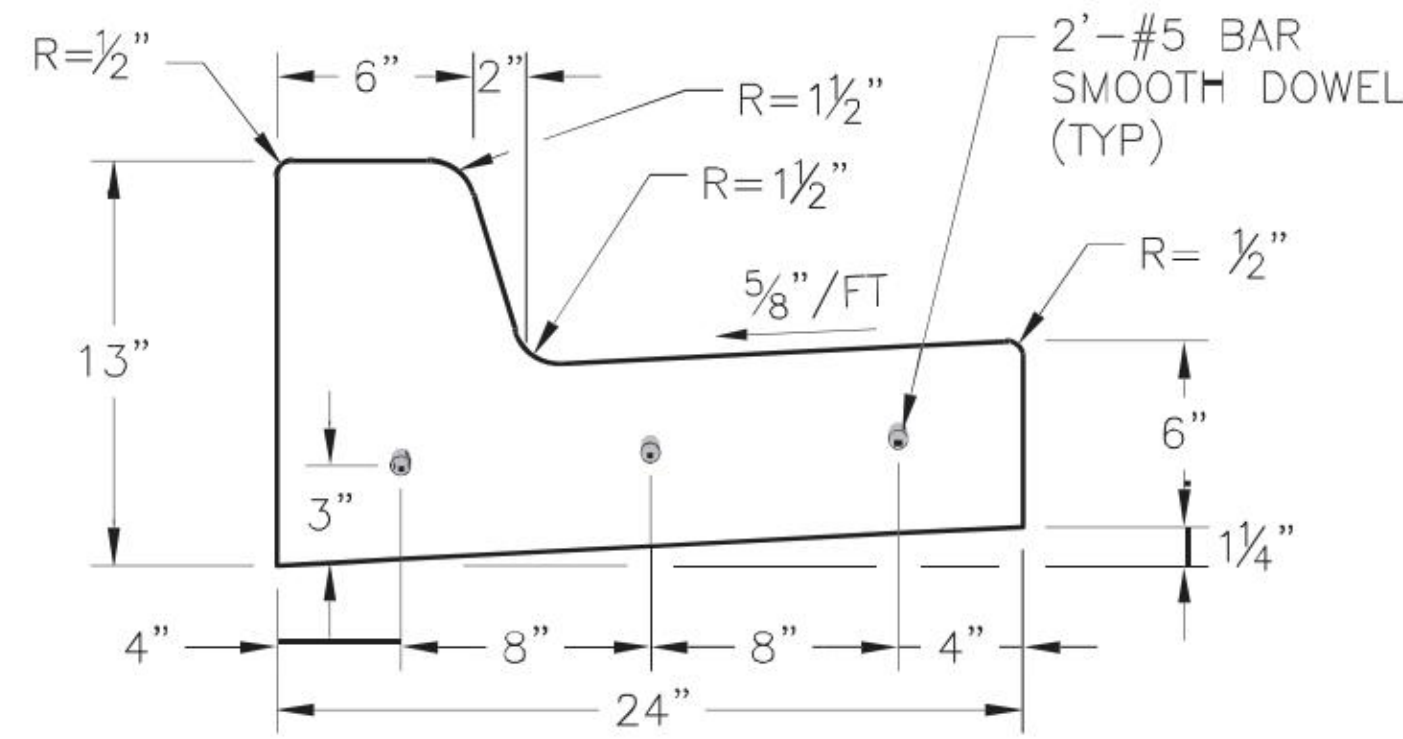
STRAIGHT CURB
(TYPE C-1)



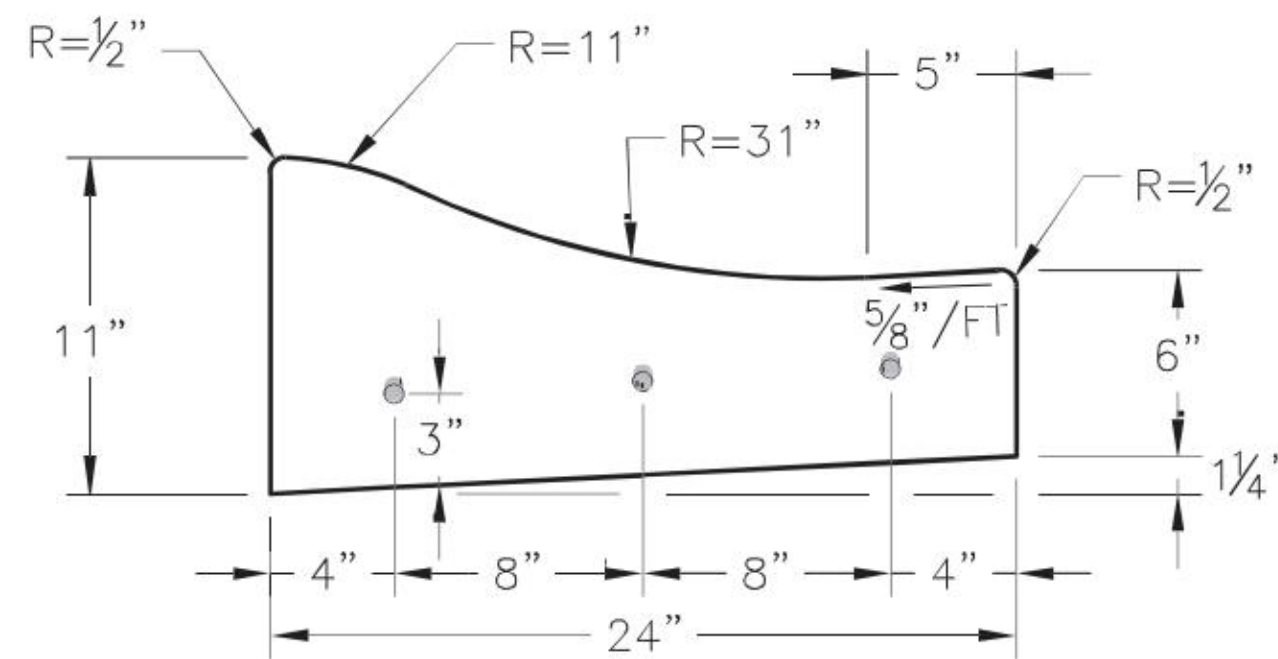
DOWELLED CURB
(TYPE DC)



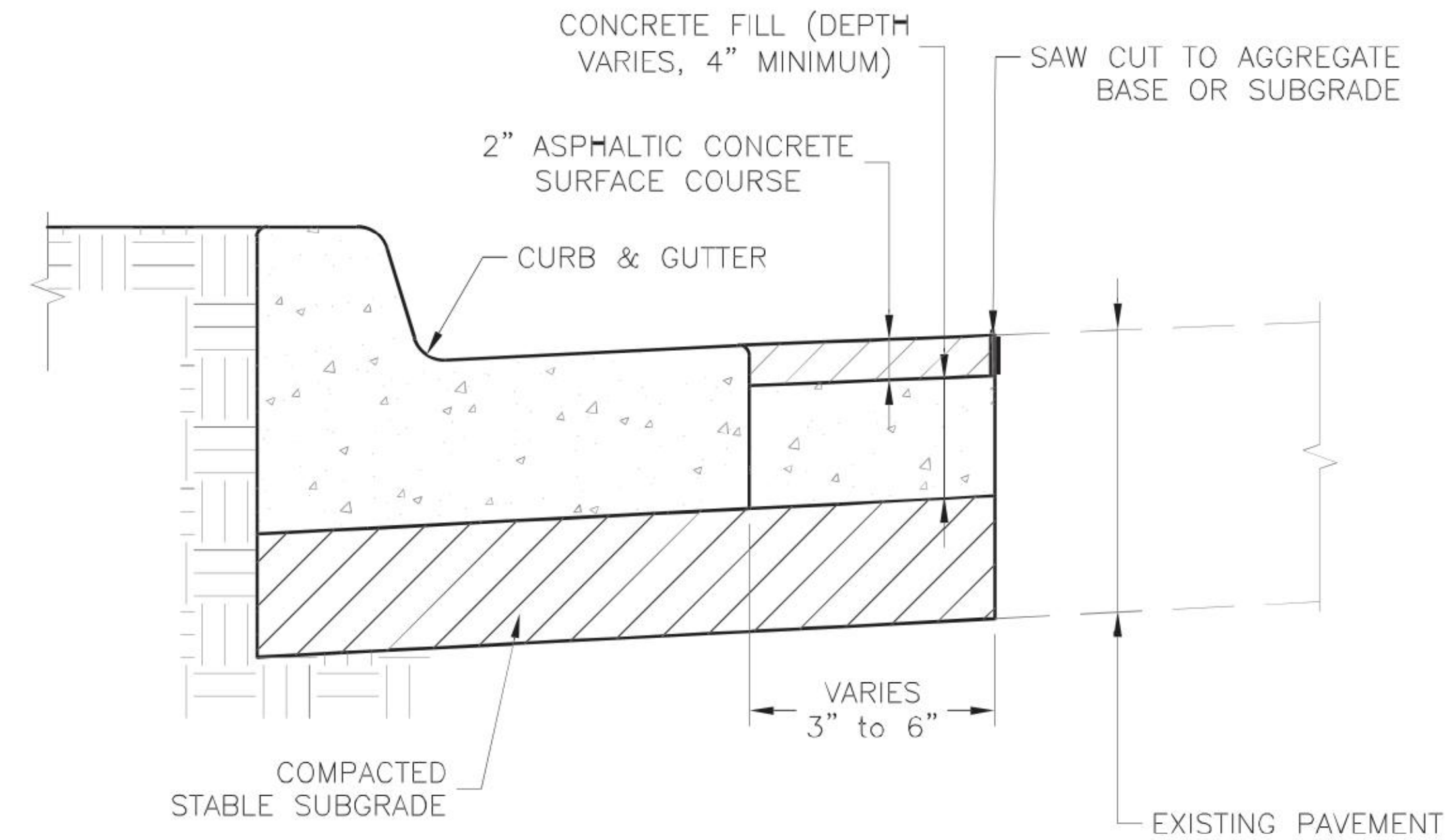
CURB & GUTTER DETAIL AT RAMP
(ADA SLOPE REQUIREMENTS)



STRAIGHT BACK CURB & GUTTER
(TYPE CG-1)



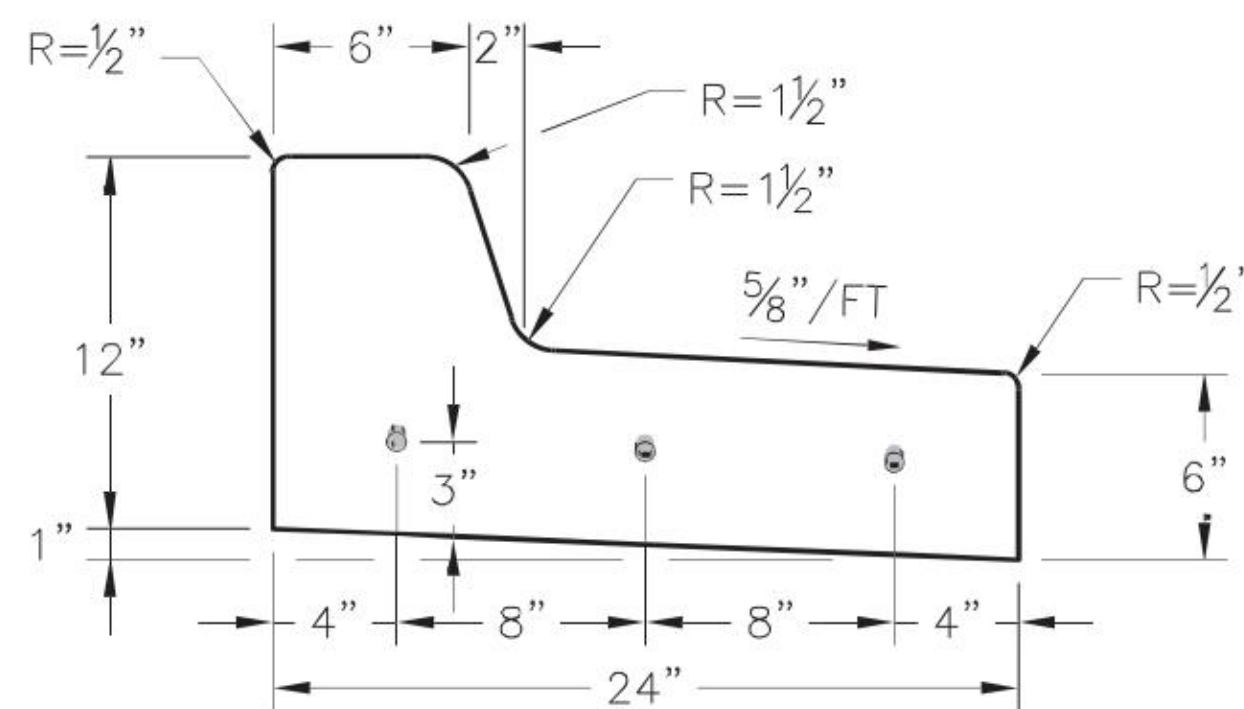
ROLL BACK CURB & GUTTER
(TYPE CG-2)



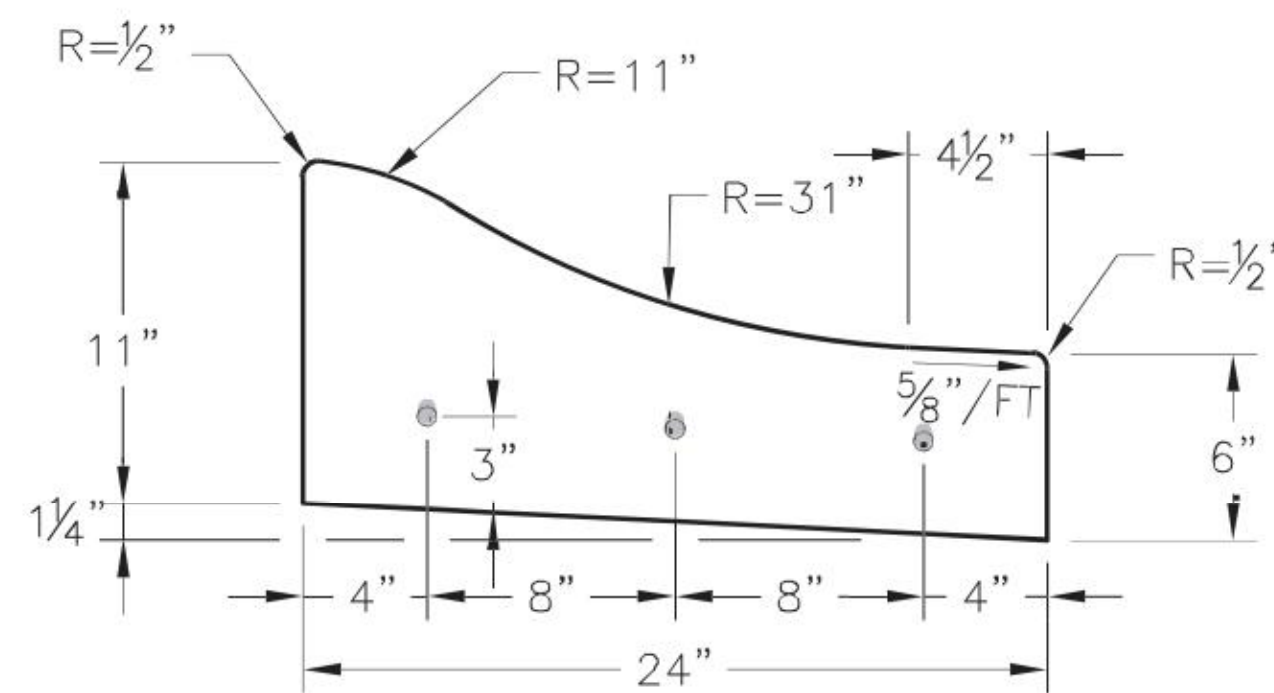
CURB REPLACEMENT DETAIL

GENERAL NOTES

- 3/4" ISOLATION JOINTS WITH 3 (2'-#5 BAR) SMOOTH DOWELS SHALL BE PLACED AT RADIUS POINTS AND AT 150' INTERVALS. THESE DOWEL BARS SHALL BE GREASED AND WRAPPED ON ONE END WITH EXPANSION TUBES.
- 3" DEEP CONTRACTION JOINTS SHALL BE INSTALLED AT APPROXIMATELY 10' INTERVALS. THESE JOINTS SHALL PASS ACROSS THE ENTIRE CURB SECTION.
- CONCRETE FILL SHALL HAVE UNIFORM AND SMOOTH FINISH
- KCMMB 4K CONCRETE SHALL BE USED FOR ALL CURB.
- ASPHALTIC CONCRETE SURFACE COURSE SHALL CONFORM TO STANDARD SPECIFICATIONS SECTION 2205.2.
- CURBS FOR NEW STREETS SHALL BE BUILT ON ASPHALT OR AGGREGATE BASE AS SHOWN IN TYPICAL SECTION DETAIL.
- WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.
- ALL DOWELS & TIE BARS SHALL BE EPOXY COATED.



STRAIGHT BACK DRY CURB & GUTTER
(TYPE CG-1 DRY)



ROLL BACK DRY CURB & GUTTER
(TYPE CG-2 DRY)

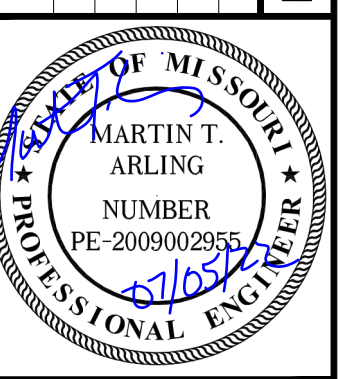
LEE'S SUMMIT
MISSOURI

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
Sheet Name: CURB & GUTTER DETAIL

Drawn By: MJF
Checked By: DL
Date: 05/2021
Proj. #:

GEN-4

REV	DATE	DESCRIPTION
4	07/05/22	PER CITY COMMENTS
3	06/22/22	PER CITY COMMENTS
2	05/06/22	PER OWNER COMMENTS
1	04/08/22	CHECK SET
0	03/02/22	INITIAL ISSUE
MTA	MTA	MTA
JNG	JNG	JNG
DSN	DSN	DSN
DWN	DWN	DWN
CHK	CHK	CHK



MARTIN T. ARLING
ENGINEER
MO # 2009002955

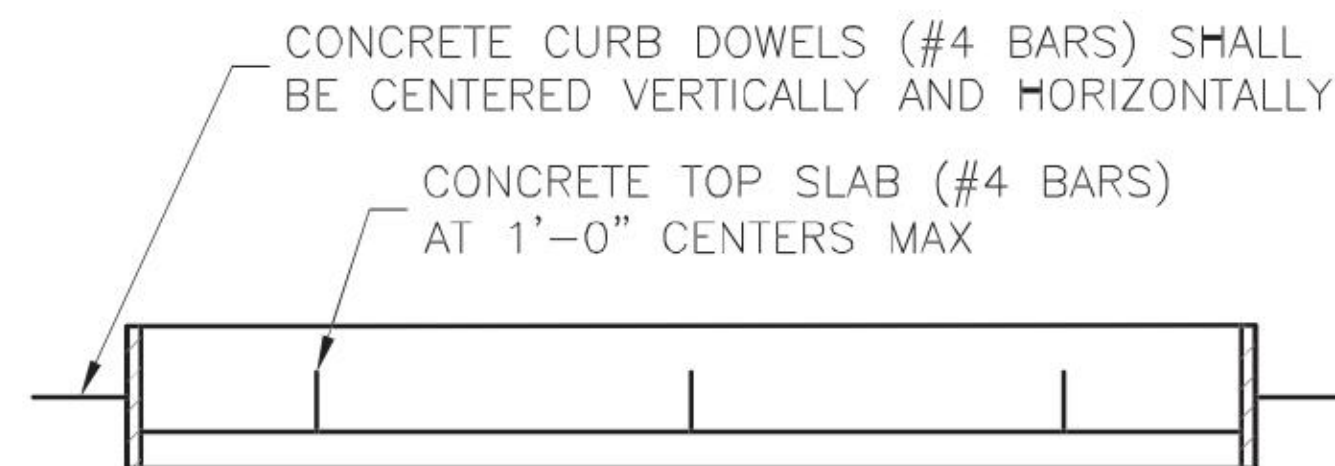
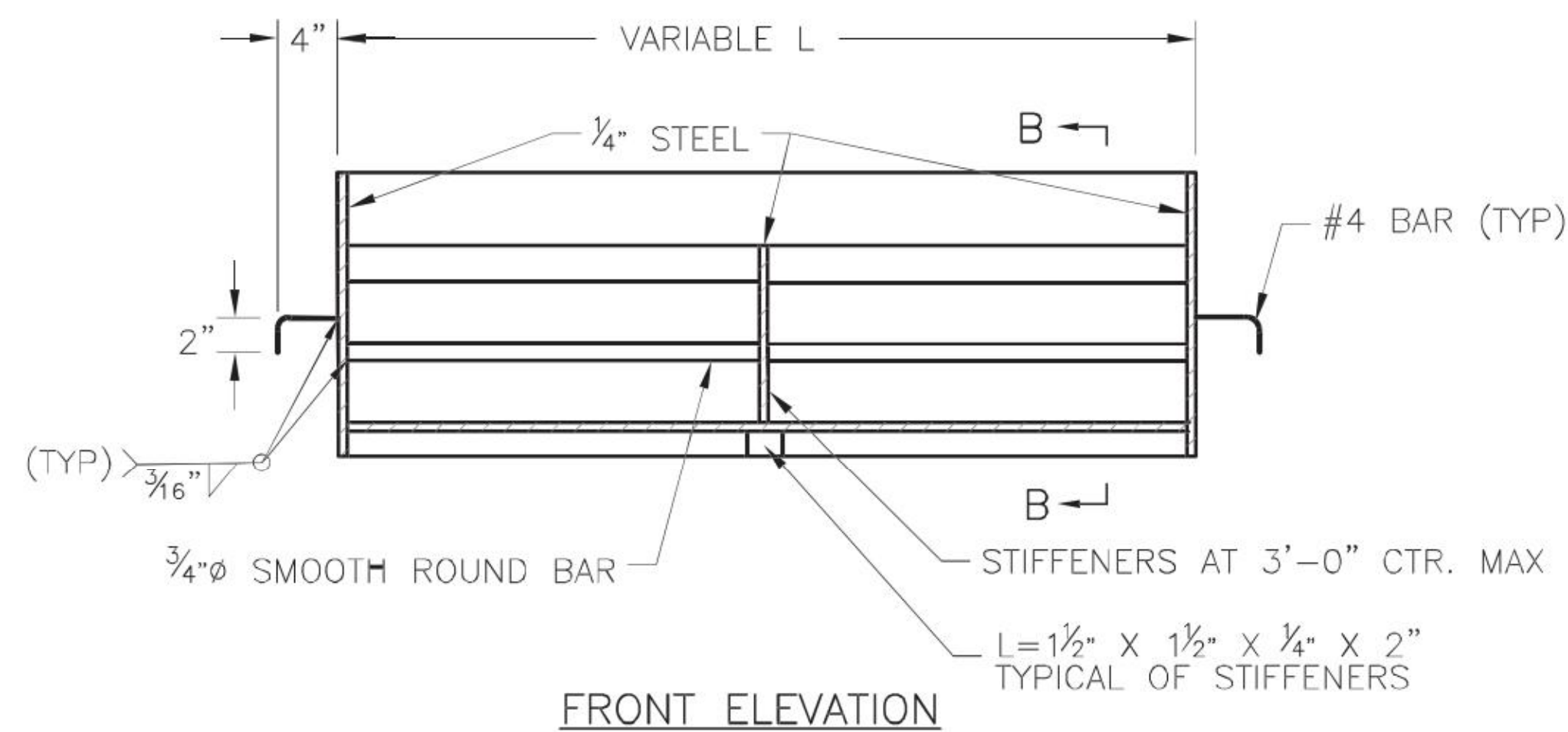
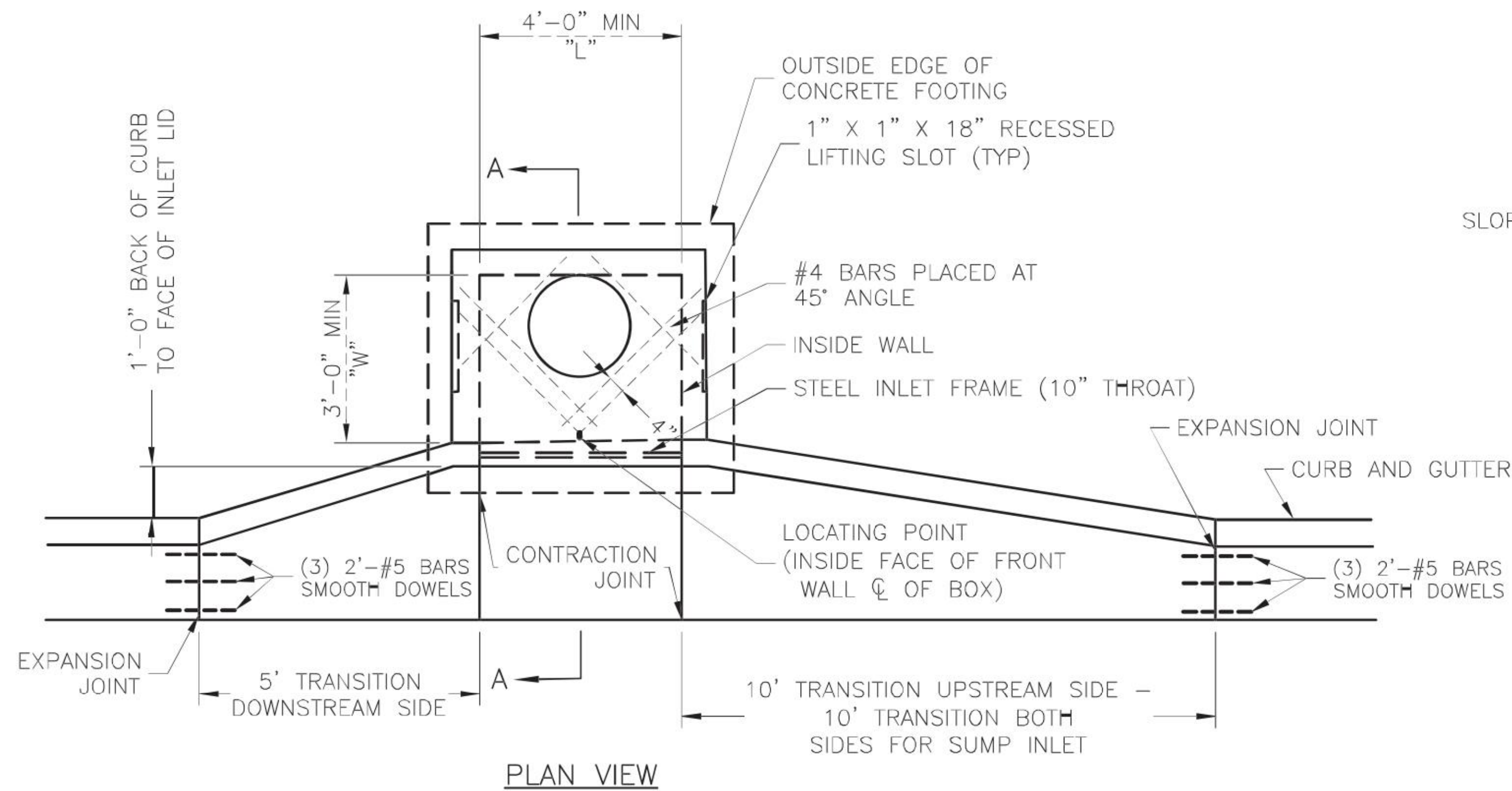
8040 N. OAK TRAILWAY
KANSAS CITY, MISSOURI 64118
PH: (816) 461-6651
www.kawvalley.com
KAW VALLEY ENGINEERING
KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842.
EXPIRES 12/31/23

7 BREW
1410 N.E. DOUGLAS STREET
LEE'S SUMMIT, MO. 64086
CONSTRUCTION PLANS
DETAIL SHEET

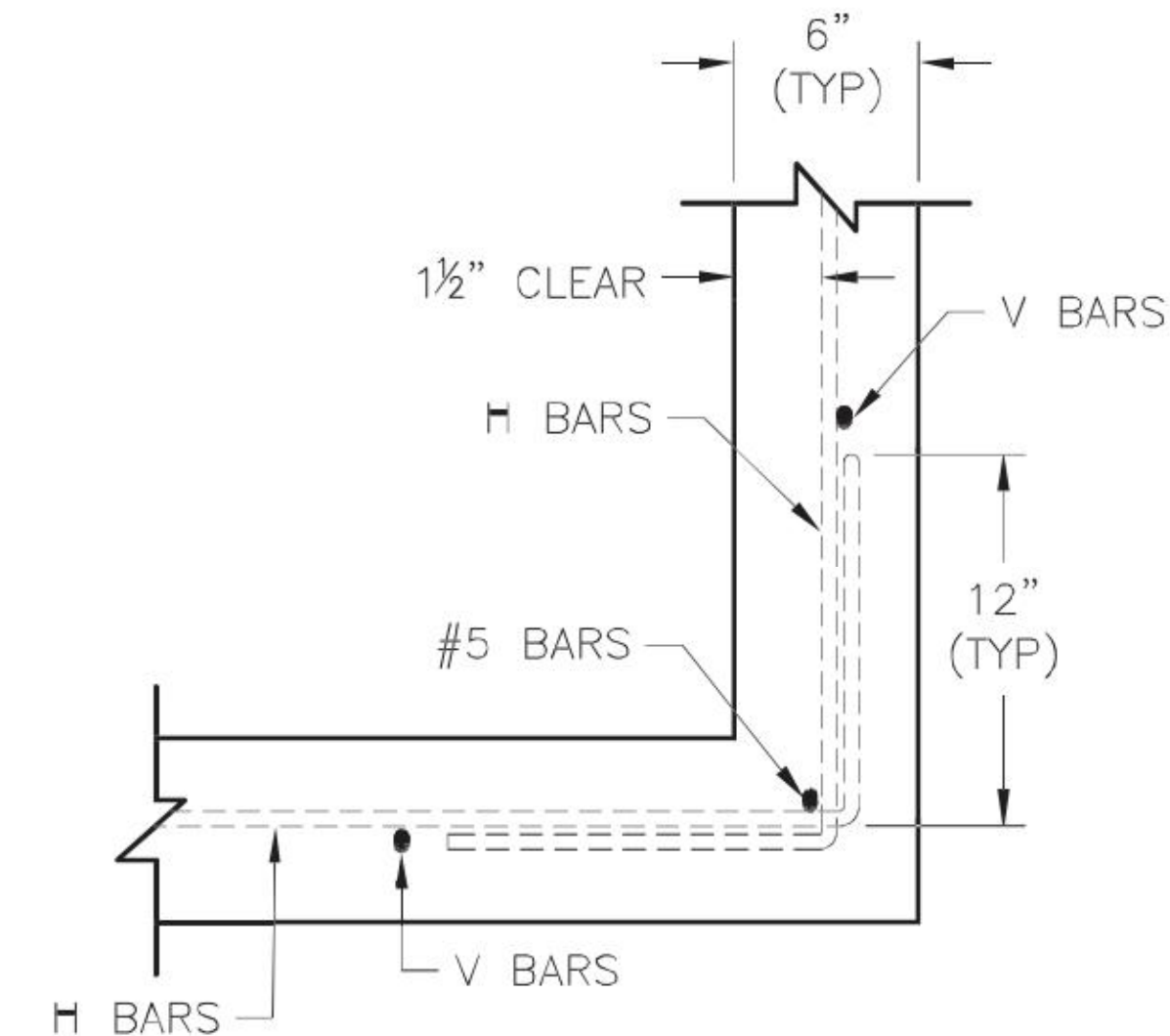
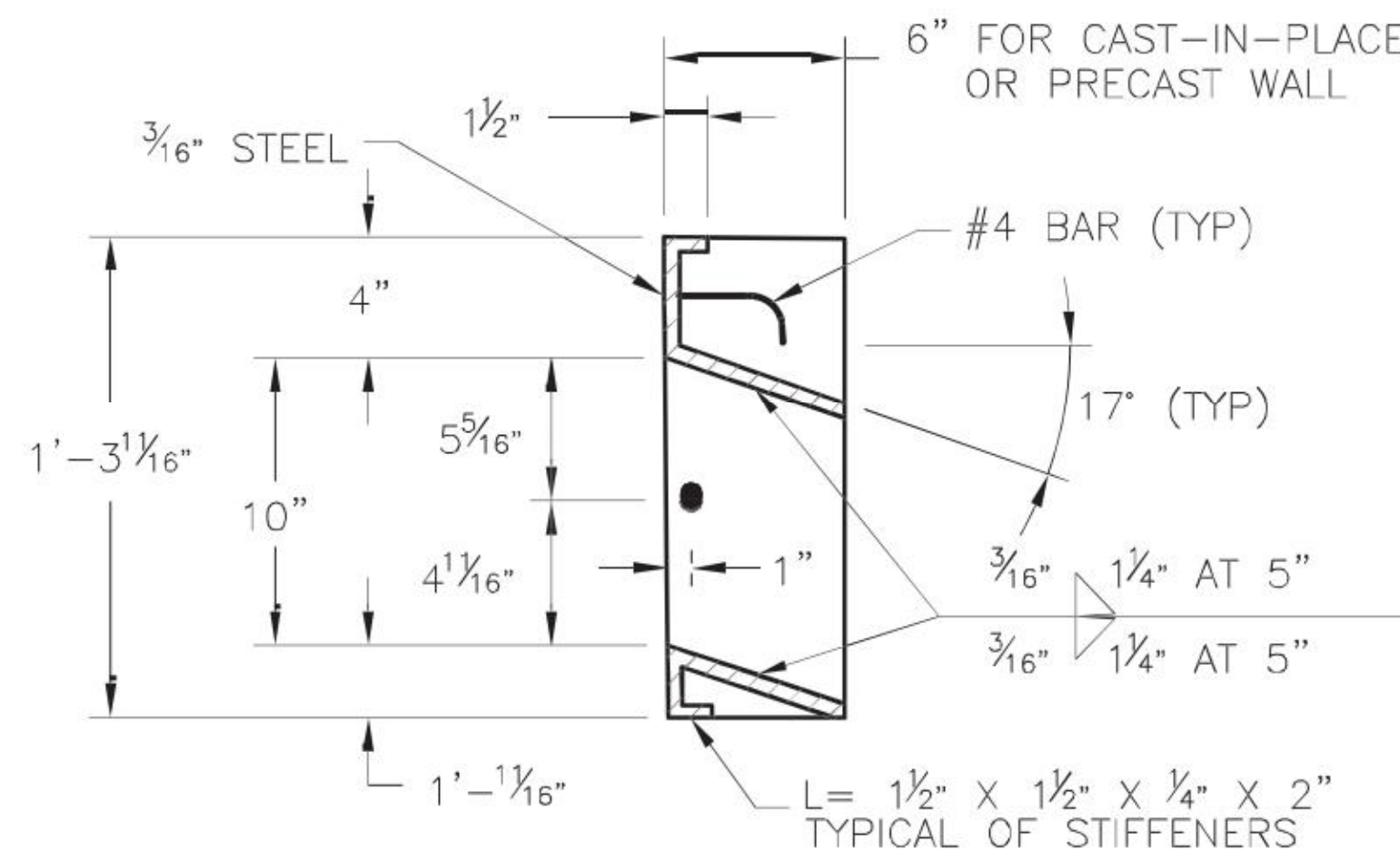
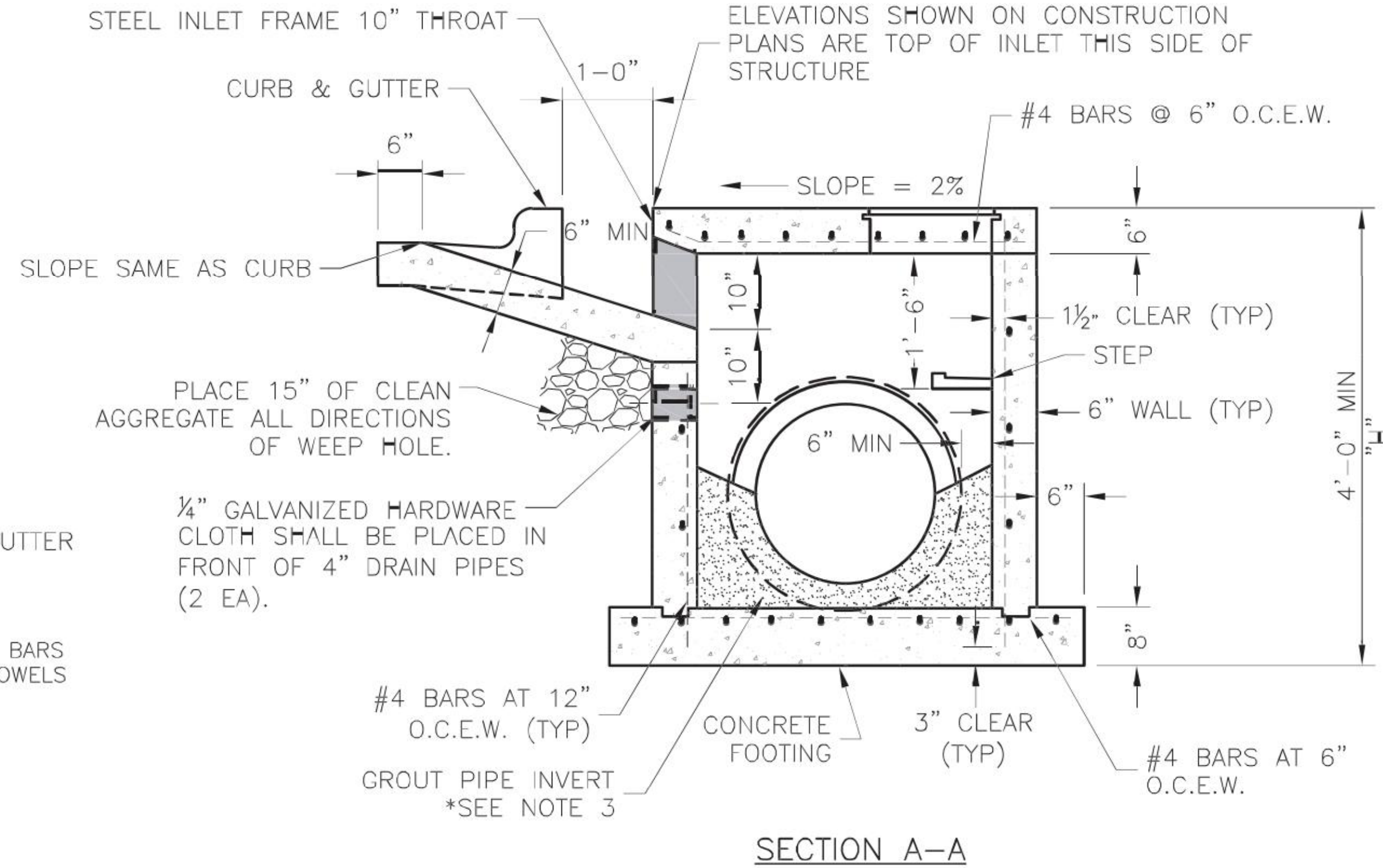
PROJ. NO.	B21D4397
DESIGNER	MTA
DRAWN BY	JNG
CFN	4397DET
SHEET	REV
C701	4



THIS DRAWING SHALL NOT BE UTILIZED BY ANY PERSON, FIRM, OR CORPORATION IN WHOLE OR IN PART WITHOUT THE SPECIFIC PERMISSION OF KAW VALLEY ENGINEERING, INC.



CURB INLET
NOT TO SCALE 160



GENERAL NOTES:

1. THE FIRST DIMENSION LISTED IN THE CONSTRUCTION NOTES IS THE "L" DIMENSION. THE SECOND DIMENSION IS THE "W" DIMENSION.
2. FLOW LINES LISTED ON THE PROJECT PLANS ARE LISTED AT THE INSIDE FACE OF THE WALL.
3. FLOOR OF INLET GROUTED AND SHAPED TO MATCH PIPE INVERT TO PROVIDE SMOOTH FLOW.
4. LOCATE MH RING AND COVER ON BLANK WALL IF POSSIBLE.
5. STEPS SHALL BE SPACED AT 1'-4" O.C. VERTICALLY ON BLANK WALL IF POSSIBLE.
6. BEVEL ALL EXPOSED EDGES WITH 3/4" CHAMFER OR 1/2" TOOLED EDGE.
7. ON-GRADE INLETS SHALL CONFORM TO THE STREET GRADE AND SUMP INLETS SHALL BE LEVEL.
8. PRECAST LIDS SHALL BE PINNED, SEALED WITH NON-SHRINKABLE GROUT AND REMOVABLE FOR FUTURE MAINTENANCE.
9. LIFTING RINGS SHALL BE REMOVED AND SEALED WITH NON-SHRINKABLE GROUT
10. FOR RING AND COVER SEE THE STORMWATER APPROVED PRODUCT LIST.

LEE'S SUMMIT
MISSOURI

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO

Project: Sheet Name:

Drawn By: MJF
Checked By: DL
Date: 05/2021
Proj. #:

STM-1

7 BREW
1410 N.E. DOUGLAS STREET
LEE'S SUMMIT, MO. 64086
CONSTRUCTION PLANS
DETAIL SHEET

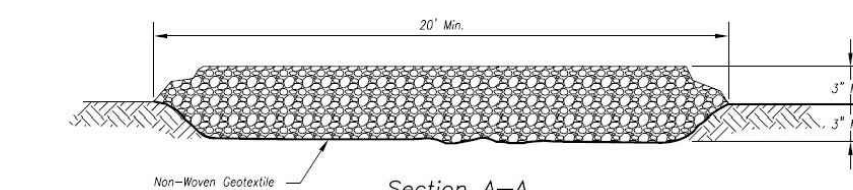
PROJ. NO.	B21D4397
DESIGNER	MTA
DRAWN BY	JNG
CFN	4397DET
SHEET	C703
REV	4



MARTIN T. ARLING
ENGINEER
MO # 2009002955

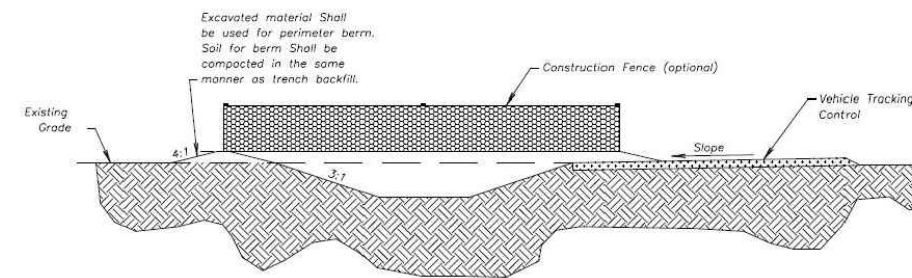
8040 N. OAK TRAILWAY
KANSAS CITY, MISSOURI 64118
PH: (816) 451-6651
KAW VALLEY ENGINEERING
KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842.
EXPIRES 12/31/23

4	07/05/22	PER CITY COMMENTS	MTA	JNG	CHK
3	06/22/22	PER CITY COMMENTS	MTA	JNG	DWN
2	05/06/22	PER OWNER COMMENTS	MTA	JNG	
1	04/08/22	CHECK SET	MTA	JNG	
0	03/02/22	INITIAL ISSUE	MTA	JNG	
REV	DATE	DESCRIPTION	DSN		

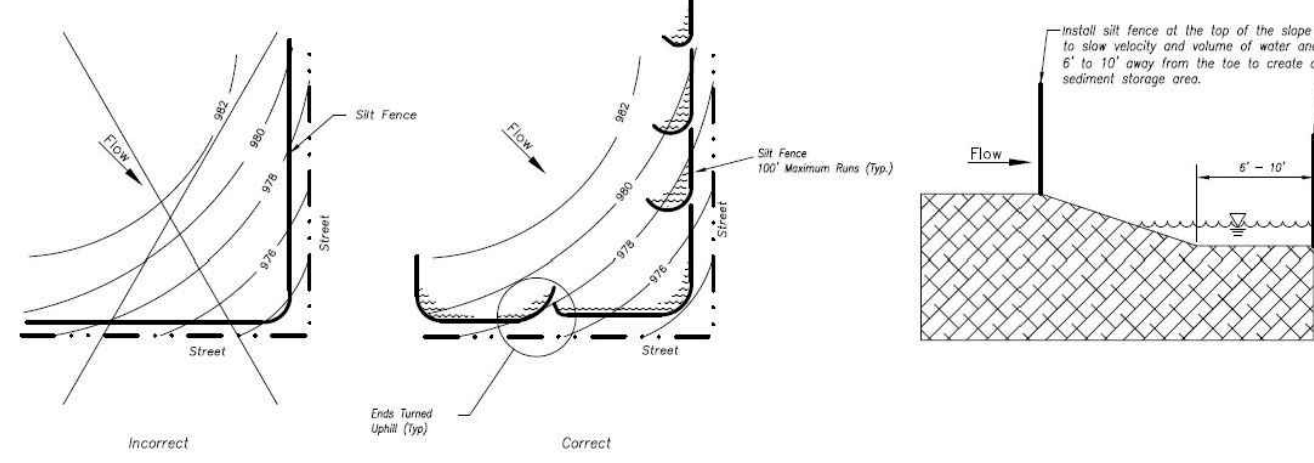


1. RESHAPE ENTRANCE AS NEEDED TO MAINTAIN FUNCTION AND INTEGRITY OF INSTALLATION. TOP DRESS WITH CLEAN AGGREGATE AS NEEDED.

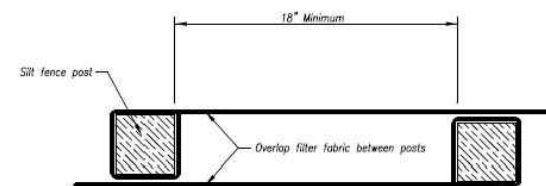
1. CONCRETE WASHOUT MATERIALS SHALL BE REMOVED ONCE THE MATERIALS HAVE FILLED THE SUBSURFACE PIT SHALL BE REMOVED TO A MINIMUM OF 75%.
2. CONCRETE WASHOUT AREA SHALL BE ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.
3. EXCESS WASTED WATER, WASTED PIECES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT TUB OR DISH AND DISPOSED OF AT AN APPROPRIATE LOCATION.
4. CONCRETE WASHOUT AREAS SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
5. EXISTING WASHOUT AREAS ARE REMOVED, EXCAVATIONS SHALL BE FILLED WITH SUITABLE COMPACTED BACKFILL AND TOPSOIL, ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE CONCRETE WASHOUT AREAS SHALL BE REPAIRED TO ORIGINAL CONDITION.




AMERICAN PUBLIC WORKS ASSOCIATION <small>Greater City Member Chapter</small>  <small>AMERICAN PUBLIC WORKS ASSOCIATION</small>		KANSAS CITY METRO CHAPTER
CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT		STANDARD DRAWING NUMBER ESC-01 ADOPTED: 10/24/2016

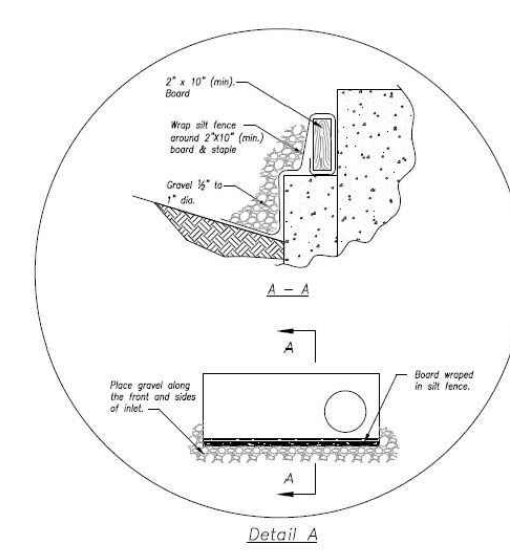
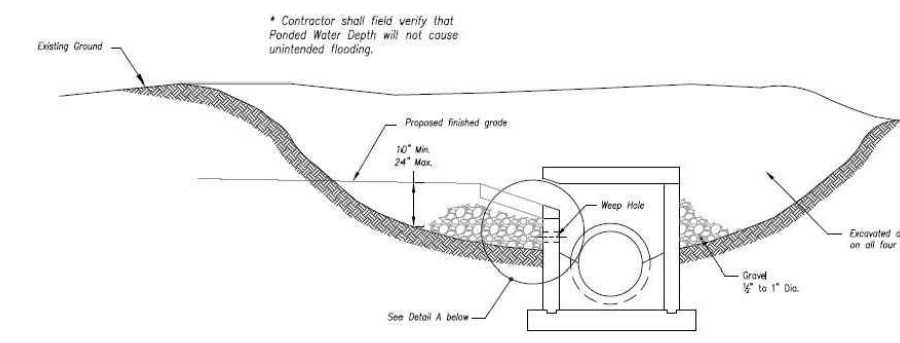


Not to Scale



Not to Scale

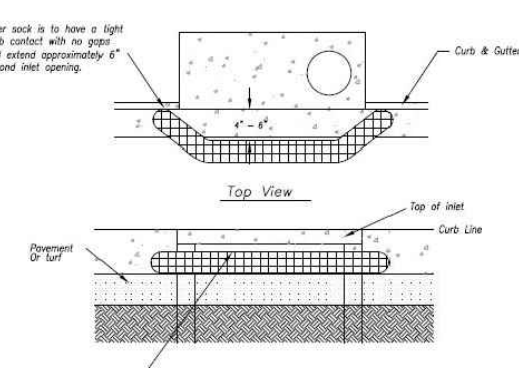
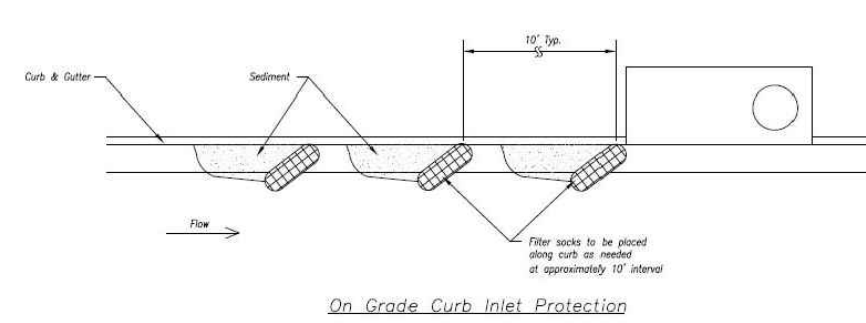
AMERICAN PUBLIC WORKS ASSOCIATION Kansas City Metro Chapter  AMERICAN PUBLIC WORKS ASSOCIATION		KANSAS CITY METRO CHAPTER
SILT FENCE	STANDARD DRAWING NUMBER ESC-03 ADOPTED: 12/15/03	



(Open Box and Prior to Pouring)

1. IMMEDIATELY FOLLOWING INLET CONSTRUCTION AND PRIOR TO CONSTRUCTION OF CURB AND INLET THROAT, PROTECT INLET OPENING BY INSTALLING 2" X 10" (MIN.) BOARD WRAPPED IN SILT FENCE. STRUCTURES SHALL HAVE EXCAVATED STORAGE AREAS FOR ALL FORDS TO ALLOW SETTLING OF SEDIMENT (EARLY STAGE CURB INLET).
2. WHEN INLET IS COMPLETED AND CURB POURED, FILTER SOCKS OR APPROVED EQUAL SHOULD BE USED (LATE STAGE CURB INLET). STRAW WATTLES ARE NOT APPROVED FOR CURB INLET USE.
3. CONTRACTOR TO FIELD VERIFY PONDING WATER SHALL NOT CREATE A TRAFFIC HAZARD.

1. REMOVE DEPOSITED SEDIMENT FROM EXCAVATED STORAGE AREAS WHEN AVAILABLE STORAGE HAS BEEN REDUCED BY 20%.
2. REMOVE DEPOSITED SEDIMENT FROM FILTER SOCKS OR SIMILAR WHEN ANY ACCUMULATION OF SEDIMENT IS VISIBLE.
3. REPAIR OR REPLACE AS NECESSARY TO MAINTAIN FUNCTION AND INTEGRITY OF INSTALLATION.






LATE STAGE CURB INLET

(After Pouring Curb and Inlet Throat)

LATE STAGE CURB INLET

(After Pouring Curb and Inlet Throat)

AMERICAN PUBLIC WORKS ASSOCIATION Kansas City Metro Chapter  KANSAS CITY METRO CHAPTER		STANDARD DRAWING NUMBER ESC-06 ADOPTED: 12/14/04
CURB INLET PROTECTION		

7 BREW 1410 N.E. DOUGLAS STREET LEE'S SUMMIT, MO. 64086		 KAW VALLEY ENGINEERING KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/23		8040 N. OAK TRAILWAY KANSAS CITY, MISSOURI 64118 PH. (816) 468-3558 FAX (816) 468-6651 ack@kve.com www.kve.com				MARTIN T. ARLING ENGINEER MO # 2009002955							
CONSTRUCTION PLANS DETAIL SHEET															
PROJ. NO.		B21D4397													
DESIGNER		MTA		DRAWN BY		JNG									
CFN		4397DET													
SHEET		C704		REV		4									

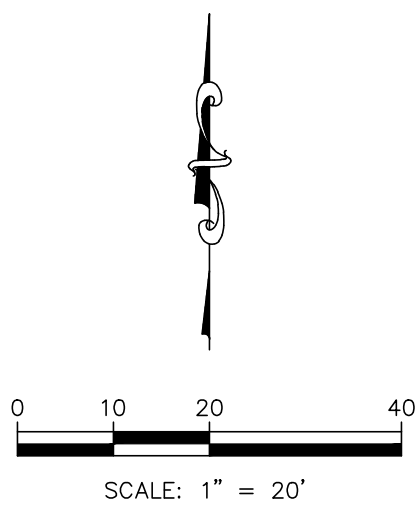
LANDSCAPING NOTES:

1. LOCATE ALL UTILITIES BEFORE LANDSCAPE CONSTRUCTION BEGINS.
2. NOTIFY OWNER REPRESENTATIVE OF ANY LAYOUT DISCREPANCIES.
3. ALL EXTERIOR GROUND WITHIN THE LIMITS OF THE CONTRACT, EXCEPT FOR SURFACES OCCUPIED BY BUILDINGS, STRUCTURES,PAVING, AND AS DIRECTED ON THE DRAWINGS AS UNDISTURBED, SHALL BE FILLED WITH SIX INCHES (6") OF TOPSOIL.
4. ALL DISTURBED AREAS NOT DESIGNATED FOR OTHER PLANTING SHALL BE SOODED. SOD SHALL CONSIST OF 90% TURF TYPE TALL FESCUE 10% BLUEGRASS.
5. QUANTITIES INDICATED IN PLANT LIST ARE FOR CONVENIENCE ONLY; CONTRACTOR IS RESPONSIBLE FOR PLANT QUANTITIES AS ILLUSTRATED ON THE PLAN.
6. SHREDDED HARDWOOD MULCH SHALL BE USED AS THREE INCH (3") TOP DRESSING IN ALL PLANT BEDS AND AROUND ALL TREES. SINGLE TREES OR SHRUBS SHALL BE MULCHED TO THE OUTSIDE EDGE OF SAUCER OR LANDSCAPE ISLAND (SEE PLANTING DETAILS).
7. FERTILIZE ALL PLANTS AT THE TIME OF PLANTING WITH TIME-RELEASE FERTILIZER(3-4 SLOW-RELEASE TABLETS/PELLETS).
8. IF LEANING OCCURS WITHIN ONE YEAR, TREES SHALL BE RE-STAKED (SEE PLANTING DETAILS).
9. CONTRACTOR SHALL STAKE ALL PLANT MATERIALS PRIOR TO INSTALLATION FOR THE PURPOSE OF DETERMINING CONFLICTS WITH ROCK, UTILITIES, ETC. NO PLANTS CAN BE PLANTED DIRECTLY ON ROCK OR UTILITIES. NOTIFY ARCHITECT/ENGINEER/OWNER AT ONCE IF ANY CONFLICTS OCCUR. CONTRACTOR WILL BE REQUIRED TO ADJUST PLANT LOCATIONS AT NO ADDITIONAL COST.
10. CONTRACTOR IS RESPONSIBLE FOR WATERING ALL SOD UNTIL ROOTS HAVE KNITTED INTO SOIL AND OWNER HAS OCCUPIED THE BUILDING.
11. PROVIDE "GATOR" BAGS ON ALL TREES. REFILL AS NECESSARY UNTIL OWNER OCCUPIES THE BUILDING.
12. ALL TREES SHALL BE 3" CALIPER, EVERGREEN TREES SHALL BE 8' TALL AND SHRUBS SHALL BE 18" HEIGHT AT TIME OF PLANTING

IRRIGATION PERFORMANCE SPECIFICATION:

- THE FOLLOWING CRITERIA SHALL BE CONSIDERED MINIMUM STANDARDS FOR DESIGN AND INSTALLATION OF LANDSCAPE IRRIGATION SYSTEM:
1. GENERAL - IRRIGATION SYSTEM TO INCLUDE DRIP IRRIGATION OF SHRUB BEDS ADJACENT TO BUILDINGS; SPRAY HEADS IN THE PARKING ISLANDS, AND ROTORS AROUND THE PERIMETER OF THE PARKING LOTS. HEADS SHALL THROW AWAY FROM BUILDING AND AVOID SPRAYING OVER SIDEWALKS.
 2. IRRIGATION SYSTEM SHALL CONFORM TO ALL INDUSTRY STANDARDS AND ALL FEDERAL, STATE AND LOCAL LAWS GOVERNING DESIGN AND INSTALLATION.
 3. WATER LINE TYPE, SIZE LOCATION, PRESSURE AND FLOW SHALL BE FIELD VERIFIED PRIOR TO SYSTEM DESIGN AND INSTALLATION.
 4. ALL MATERIALS SHALL BE FROM NEW STOCK FREE OF DEFECTS AND CARRY A MINIMUM ONE YEAR WARRANTY FROM THE DATE OF SUBSTANTIAL COMPLETION.
 5. THE IRRIGATION SYSTEM SHALL BE DESIGNED AND INSTALLED IN SUCH A WAY THAT ALL SYSTEM COMPONENTS OPERATE WITHIN THE GUIDELINES ESTABLISHED BY THE MANUFACTURER.
 6. LAWN AREA AND SHRUB BEDS SHALL BE ON SEPARATE CIRCUITS.
 7. PROVIDE WATER TAP, METER SET, METER VAULT AND ALL OTHER OPERATIONS NECESSARY TO PROVIDE WATER FOR IRRIGATION SHALL CONFORM TO LOCAL WATER GOVERNING AUTHORITY GUIDELINES AND STANDARDS.
 8. BACKFLOW PREVENTION SHALL BE PROVIDED IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS.
 9. IRRIGATION CONTROLLER TO BE LOCATED IN UTILITY ROOM INSIDE BUILDING, AS IDENTIFIED BY OWNER.
 10. IRRIGATION CONTROLLER STATIONS SHALL BE LABELED TO CORRESPOND WITH THE CIRCUIT IT CONTROLS.
 11. CONTRACTOR SHALL PROVIDE TO THE OWNER WRITTEN OPERATION INFORMATION FOR ALL SYSTEM COMPONENTS.
 12. CONTRACTOR SHALL PROVIDE TO THE OWNER ALL KEYS, ACCESS TOOLS, WRENCHES AND ADJUSTING TOOLS NECESSARY TO GAIN ACCESS, ADJUST AND CONTROL THE SYSTEM.
 13. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO THE OWNER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
 14. AN AUTOMATIC RAIN SHUT-OFF OR MOISTURE DEVICE SHALL BE INSTALLED.
 15. INSTALL SCHEDULE 40 PVC SLEEVES UNDER ALL CURBS, PAVING AND SIDEWALKS. SLEEVES TO BE TWICE THE SIZE OF THE LINE IT HOUSES.
 16. INSTALL MANUAL DRAIN VALVES AT LOWEST POSSIBLE ELEVATION ON IRRIGATION MAIN TO ALLOW GRAVITY DRAINING OF MAIN DURING WINTER MONTHS. PROVIDE QUICK COUPLERS AT MULTIPLE LOCATIONS TO ALLOW FOR EASY "BLOWING OUT" OF LATERAL AND MAIN LINES.
 17. ZONES OR NOZZLES SHALL BE DESIGNED WITH MATCHED PRECIPITATION RATES.
 18. MINIMUM LATERAL DEPTH IS 15" AND MAIN DEPTH IS 18".
 19. SUBMIT DESIGN DRAWING WITH BID TO ALLOW OWNER TO EVALUATE SYSTEM. INCLUDE CUT SHEETS OF ALL COMPONENTS AND ZONE TABLE ILLUSTRATING FLOWS AND ANTICIPATED PRESSURE AT FURTHEST HEAD.
 20. AN "AS-BUILT" SCALED DRAWING SHALL BE PROVIDED TO THE OWNER BY THE CONTRACTOR AND SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
 - AS CONSTRUCTED LOCATION OF ALL COMPONENTS
 - COMPONENT NAME, MANUFACTURER, MODEL INFORMATION, SIZE AND QUANTITY
 - PIPE SIZE AND QUANTITY
 - INDICATION OF SPRINKLER HEAD SPRAY PATTERN
 - CIRCUIT IDENTIFICATION SYSTEM
 - DETAILED METHOD OF WINTERIZING SYSTEM

SUBMIT AS-BUILT DRAWING IN FULL SIZE DRAWING FORM AS WELL AS PDF ELECTRONIC FORMAT. (SCANNING FULL SIZE COPY OF PLAN IS ACCEPTABLE IF IT CAN BE PRINTED TO SCALE)



L=39.25'
R=25.00'
CB=N 47°10'05" E
CD=35.34'

PRIVATE DRIVE

PRIVATE DRIVE

LANDSCAPE WORKSHEET

NE DOUGLAS STREET

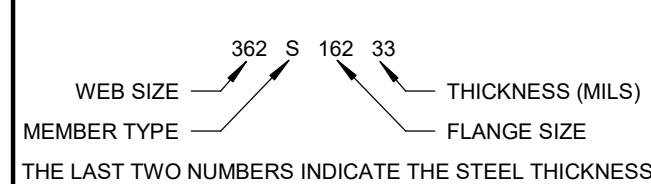


LOADING TABLE AND CODE INFORMATION			
BUILDING CODE 2018 IBC			
1. DEAD LOADS			
A. ROOF DEAD LOAD		20	PSF
B. TYPICAL ATTIC / FLOOR DEAD LOAD		50	PSF
2. COLLATERAL LOADS (NON-REDUCIBLE)			
A. ROOF COLLATERAL LOAD		10	PSF
3. LIVE LOADS			
A. ROOF LIVE LOAD (W/ TRIBUTARY REDUCTION)		20	PSF
B. TYPICAL FLOOR LIVE LOAD		40	PSF
C. STAIRS AND CORRIDORS FLOOR LIVE LOAD		100	PSF
4. SNOW LOAD			
A. GROUND SNOW LOAD, Pg		20	PSF
B. FLAT ROOF SNOW LOAD, Pf		20	PSF
C. SNOW EXPOSURE FACTOR, Ce		1.0	
D. SNOW LOAD IMPORTANCE FACTOR		1.0	
E. THERMAL FACTOR, Ct		1.0	
F. SNOW DRIFT		PER CODE	
5. WIND LOAD			
A. ULTIMATE WIND SPEED, Vult		109	MPH
B. RISK CATEGORY			
C. WIND IMPORTANCE FACTOR		1.0	
D. WIND EXPOSURE CATEGORY		C	
E. INTERNAL PRESSURE COEFFICIENT		±0.18	
6. SEISMIC DESIGN CRITERIA			
A. RISK CATEGORY		II	
B. SEISMIC IMPORTANCE FACTOR, Ie		1.0	
C. SPECTRAL RESPONSE ACCELERATIONS AND COEFFICIENTS			
i. Ss		0.100	
ii. Sd1		0.068	
iii. Sds		0.106	
iv. Sd1		0.109	
D. SITE CLASS		D	
E. SEISMIC DESIGN CATEGORY		B	
F. BASIS SEISMIC FORCE-RESISTING SYSTEM		LFWS	ELB
G. ANALYSIS PROCEDURE		FSF	
H. RESPONSE MODIFICATION COEFFICIENT, R		4	
I. SYSTEM OVERSTRENGTH FACTOR,		3	
J. DEFLECTION AMPLIFICATION FACTOR, Cd		4	

COLD-FORMED STEEL NOTES

PRODUCT IDENTIFICATION

THE AMERICAN IRON AND STEEL INSTITUTE STANDARDS ARE USED IN THIS PACKAGE. ANY MANUFACTURER WHOSE PRODUCT GEOMETRIES MEETS OR EXCEED AISI STANDARDS ARE ACCEPTABLE.



- COLD-FORMED STEEL FABRICATION AND INSTALLATION SHALL BE IN ACCORDANCE WITH AISI "STANDARD FOR COLD-FORMED STEEL FRAMING - GENERAL PROVISIONS".
- WELDING OF COLD-FORMED STEEL SHALL BE IN ACCORDANCE WITH THE STANDARD CODE OF ARC AND GAS WELDING IN BUILDING CONSTRUCTION. AXIALLY LOADED STUDS SHALL BE POSITIONED DIRECTLY UNDER JOIST BEARING POINTS WHENEVER POSSIBLE.
- STUDS SHALL NOT BE SPLICED.
- PROVIDE MANUFACTURER'S STANDARD BRIDGING AS NOTED ON STUD TABLES (4 MAX U.N.O.).
- PROVIDE DOUBLE STUDS, MINIMUM AT ALL PARTITION ENDS, EACH SIDE OF OPENINGS, AND WHERE INDICATED ON DRAWINGS.
- PROVIDE DEFLECTION TRACK OR CLIPS AT HEADS OF ALL NON LOAD-BEARING WALLS.
- MINIMUM TRACK SIZE SHALL MATCH STUD SIZE U.N.O. SEE STANDARD LIGHT GAGE DETAILS AND STUD CHARTS FOR ADDITIONAL INFORMATION.
- ALIGN WEB PUNCHOUTS IN STUD WALLS. WEB PUNCHOUTS MUST BE LOCATED A MINIMUM OF 10" AWAY FROM THE STUD END.
- MINIMUM YIELD STRENGTH FOR 18 AND 20 GA COLD-FORMED MEMBERS SHALL BE 33 KSI. MINIMUM YIELD STRENGTH FOR 16 GA AND HEAVIER COLD-FORMED MEMBERS SHALL BE 50 KSI.
- HEADERS AND BULKHEADS SHALL BE FORMED FROM UNPUNCHED MEMBERS.
- STUDS SHALL NOT BE NOTCHED, SPLICED, OR COPED WITHOUT WRITTEN APPROVAL OF ENGINEER.
- CUTTING OF STUDS SHALL BE DONE BY SAWING, SHEARING, OR PLASMA CUTTING. OTHER METHODS OF CUTTING ARE NOT PERMITTED WITHOUT APPROVAL OF ENGINEER.
- SEE SPECIFICATIONS FOR ADDITIONAL STRUCTURAL COLD-FORMED FRAMING REQUIREMENTS. SEE SPECIFICATION SECTION 0520 FOR ADDITIONAL REQUIREMENTS FOR COLD-FORMED DRYWALL COMPONENTS. ALL MATERIALS AND WORK SHALL CONFORM TO THE CODE LISTED IN THESE DRAWINGS. THESE NOTES GIVE MINIMUM REQUIREMENTS. WHERE CONFLICTS ARISE BETWEEN THE CODE, THE DRAWINGS, AND THE STRUCTURAL NOTES, THE MORE STRINGENT REQUIREMENT SHALL CONTROL.

ADDITIONAL COLD-FORMED STEEL NOTES

- CONTRACTOR SHALL PROVIDE LIGHT GAGE FRAMING SHOP DRAWING SUBMITTAL. SUBMITTAL SHALL INCLUDE LIGHT GAGE FRAMING PLANS, DETAILS, SECTIONS AND ACCESSORIES.
- LIMIT STUD/HEADER DEFLECTIONS TO L/800 FOR MEMBERS SUPPORTING BRICK VENEER AND L/360 FOR ALL OTHERS.
- SUBMITTAL SHALL INCLUDE INTERIOR AND EXTERIOR STUDS AND CEILING/SOFT MEMBERS.
- COORD DEFLECTION TRACK AT NON-LOADING BEARING WALLS AND FIRE-RATED PARTITIONS. W/ ARCH. TRACK (OR CLIPS) SHALL ALLOW 3/4" VERTICAL MOVEMENT UP OR DOWN.
- PROVIDE DEFLECTION CLIPS AT TOP OF ALL EXTERIOR NON-LOAD BEARING JAMB MEMBERS. PUNCHOUTS SHALL ALIGN AND SHALL NOT BE LOCATED WITHIN 10" OF BASE.

STATEMENT OF SPECIAL INSPECTIONS

- SPECIAL INSPECTIONS ARE REQUIRED FOR THIS STRUCTURE IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE FOR THE ITEMS NOTED IN THE TABLE ON THIS SHEET.
- TESTING SHALL BE PERFORMED BY A QUALIFIED TESTING LABORATORY RETAINED BY THE OWNER AND APPROVED BY THE ENGINEER.
- A LETTER OF SUBSTANTIAL COMPLETION SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT BY THE SPECIAL INSPECTION PROVIDER PRIOR TO THE FINAL INSPECTION.

IBC TABLE 1705.6 REQUIRED VERIFICATION AND INSPECTION OF SOILS		
VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	—	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	—	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	—	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	—
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	—	X

SCHEDULE - SPECIAL INSPECTIONS

ABBREVIATIONS

- A.B.= ANCHOR BOLT
- ACI= AMERICAN CONCRETE INSTITUTE
- AISC= AMERICAN INSTITUTE OF STEEL CONSTRUCTION
- AISI= AMERICAN IRON AND STEEL INSTITUTE
- ARCH= ARCHITECTURE/ARCHITECT
- ASTM= AMERICAN SOCIETY FOR TESTING AND MATERIALS
- A.W.= AFTER WELDING
- AWSS= AMERICAN WELDING SOCIETY
- BAR= REBAR
- B.O.= BOTTOM OF
- B.O.A.= BACK OF ANGLE
- B.O.F.= BOTTOM OF FINISHING
- B.O.S.= BOTTOM OF STEEL
- BRG= BEARING
- BTM= BOTTOM
- CANT= CANTILEVERED
- C.I.P.= CAST-IN-PLACE
- C.J.P.= COMPLETE JOINT PENETRATION WELD
- CL= CENTERLINE
- CLR= CLEAR
- CMU= CONCRETE MASONRY UNIT
- COL= COLUMN
- CONC= CONCRETE
- CONN= CONNECTION
- CONT= CONTINUOUS
- D.B.= DECK BEARING
- D.B.A.= DEFORMED BAR ANCHOR
- D.E.= DECK EDGE
- DIA= DIAMETER
- DL= DEAD LOAD
- DTL= DETAIL
- DWG= DRAWING
- EX= EXISTING
- EACH= EACH
- E.F.= EACH FACE
- EL= ELEVATION
- EPS= EXPANDED POLYSTYRENE
- EQ= EQUAL
- E.W.= EACH WAY
- EXT= EXTERIOR
- EXT= CONCRETE COMPRESSIVE STRENGTH
- F.F.= FINISHED FLOOR
- FND= FOUNDATION
- F.O.W.= FACE OF WALL
- F.S.= FAR SIDE
- FTG= FOOTING
- F.V.= FIELD VERIFY
- GAGE/ GAUGE
- GALV= GALVANIZED
- G.B.= GENERAL CONTRACTOR
- G.C.= GENERAL CONTRACTOR
- (H)= HIGH
- H&L= HIGH & LOW
- H.A.S.= HEADED ANCHOR STUD
- HORIZ= HORIZONTAL
- IBC= INTERNATIONAL BUILDING CODE
- ID.= INSIDE DIAMETER
- INFO= INFORMATION
- INT= INTERIOR
- J.B.= JOIST BEARING
- J.B.E.= JOIST BEARING ELEVATION
- KIP= 1000 POUNDS
- KSI= KIPS PER SQUARE INCH
- (L)= LOW
- LE= LENGTH
- LB= POUND
- LGFS= LIGHT-GAGE STEEL FRAMING
- LL= LIVE LOAD
- LLH= LONG LEG HORIZONTAL
- LLV= LONG LEG VERTICAL
- LONG= LONGITUDINAL
- LP= LAYOUT POINT
- LVL= LAMINATED VENEER LUMBER
- LG= LIGHTWEIGHT
- MAX= MAXIMUM
- MECH= MECHANICAL
- MEP= MECHANICAL, ELECTRICAL, PLUMBING
- MFR= MANUFACTURER
- MIL= THOUSANDS OF AN INCH
- MIN= MINIMUM
- MISC= MISCELLANEOUS
- MTL= METAL
- N.I.C.= NOT IN CONTRACT
- N.S.= NEAR SIDE
- N.T.S.= NOT TO SCALE
- N.W.= NORMAL WEIGHT
- O.C.= ON CENTER
- O.D.= OUTSIDE DIAMETER
- OPP= OPPOSITE
- OPF= OPPOSITE HAND
- PAF= POWDER ACTUATED FASTENER
- P.C.F.= POUNDS PER CUBIC FOOT
- PEMB= PRE-ENGINEERED METAL BUILDING
- PLF= POUNDS PER LINEAR FOOT
- PPT= PRESERVATIVE PRESSURE TREATED
- PSF= POUNDS PER SQUARE FOOT
- PSI= POUNDS PER SQUARE INCH
- PT= POST TENSIONED
- REIN= REINFORCING
- REQ= REQUIRE
- RTU= ROOF TOP UNIT
- S.C.= SLIP CRITICAL
- SCH= SCHEDULE
- SDI= STEEL DECK INSTITUTE
- SIM= SIMILAR
- SJI= STEEL JOIST INSTITUTE
- SNOW= SNOW LOAD
- S.O.G.= SLAB ON GRADE
- STAND= STANDARD
- STL= STEEL
- T.= THICKNESS
- TAB= TOP AND BOTTOM
- T.O.= TOP OF
- T.O.F.= TOP OF FOOTING
- T.O.P.= TOP OF PEDESTAL
- T.O.S.= TOP OF STEEL
- T.O.W.= TOP OF WALL
- TYP= TYPICAL
- UL= ULTIMATE LOAD
- U.N.O.= UNLESS NOTED OTHERWISE
- VERT= VERTICAL
- VLD= VERTICAL LEG DOWN
- W.= WIDTH
- WL= WIND LOAD
- W.P.= WORK POINT
- WWF= WELDED WIRE FABRIC
- (#)= QUANTITY

POST-INSTALLED ANCHOR NOTES

- CONTINUOUS INSPECTIONS ARE REQUIRED FOR POST INSTALLED ANCHOR BOLTS INCLUDING TYPE, SIZE, LENGTH, DRILLING METHOD, HOLE CLEANING PROCEDURES, AND ANCHOR INSTALLATION AND SETTING PROCEDURES.
- ADHESIVE ANCHORS SHALL BE INSTALLED BY AN ADHESIVE ANCHOR INSTALLER WHO HAS BEEN CERTIFIED BY ACI AND TRAINED BY THE MANUFACTURER.
- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD
1. MATERIAL VERIFICATION OF COLD-FORMED STEEL DECK:			
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	—	X	APPLICABLE ASTM MATERIAL STANDARDS
B. MANUFACTURER'S CERTIFIED TEST REPORTS	—	X	
2. INSPECTION OF WELDING:			
A. COLD-FORMED STEEL DECK:			
a. FLOOR AND ROOF DECK WELDS.	—	X	AWS D1.3
B. REINFORCING STEEL:			
a. VERIFICATION OF WELDABILITY OF REINF STEEL OTHER THAN ASTM A 706.	—	X	
b. REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCEMENT.	X	—	AWS D1.4 ACI 318 SECTION 3.5.2
c. SHEAR REINFORCEMENT.	X	—	
d. OTHER REINFORCING STEEL.	—	X	

CONCRETE NOTES

- CONCRETE FOR FOUNDATIONS, FOOTINGS AND INTERIOR SLABS ON GRADE SHALL BE AS FOLLOWS:
 - 28-DAY COMPRESSIVE STRENGTH: 3000 PSI
 - MAXIMUM WATER TO CEMENT RATIO: 0.52
 - SUMP: 4" ±1"
- CONCRETE FOR EXTERIOR USES, SIDEWALKS, RETAINING WALLS, BASEMENT WALLS, AND EXTERIOR SLABS ON GRADE SHALL BE AS FOLLOWS:
 - 28-DAY COMPRESSIVE STRENGTH: 4000 PSI
 - MAXIMUM WATER TO CEMENT RATIO: 0.45
 - SUMP: 4" ±1"
 - AIR-ENTRAINMENT: 0.06 ±1%
 - AIR-ENTRAINING ADMIXTURE SHALL CONFORM TO ASTM C260
- CONCRETE FOR ELEVATED SLABS ON METAL DECK SHALL BE AS FOLLOWS:
 - 28-DAY COMPRESSIVE STRENGTH: 4000 PSI
 - MAXIMUM WATER TO CEMENT RATIO: 0.45
 - SUMP: 4" ±1"
- NO LIME SAND FINE AGGREGATE MAY BE USED IN CONCRETE EXPOSED TO WEATHER, VIEW, OR IN HORIZONTAL APPLICATIONS.
- ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 LAP FABRIC 9" ON SIDES AND ENDS. MAINTAIN WIRE 1" TO 2" BELOW TOP SURFACE OF SLABS ON GRADE. PROVIDE CHAIRS, BOLSTERS OR OTHER APPROVED MEANS TO PROPERLY LOCATE REINFORCING.
- IF ADDITIONAL FLOWABILITY IS REQUIRED FOR PLACEMENT OF ANY CONCRETE MIX, A WATER-REDUCING ADDITIVE CONFORMING TO ASTM C494, TYPE A, D, E OR F SHALL BE USED. NO ADDITIONAL WATER MAY BE ADDED TO THE MIX AT THE SITE. SLUMP FOR CONCRETE CONTAINING WATER-REDUCING OR HIGH-RANGE WATER-REDUCING ADMIXTURE SHALL NOT EXCEED 8" AFTER ADMIXTURE IS ADDED TO CONCRETE WITH A 2'-4" SLUMP.
- INTERIOR SLABS SHALL HAVE SMOOTH TROWELED FINISH AND EXTERIOR SLABS SHALL HAVE LIGHT BROOM FINISH. UNO. ALL SLABS SHALL HAVE A CURING COMPOUND COMPLYING WITH ASTM C309 APPLIED TO SURFACE. EXCEPTIONS ARE WHERE FLOOR FINISHES REQUIRE SCRATCH FINISH AND WHERE CURING COMPOUNDS ARE NOT COMPATIBLE WITH ADHESIVES, ETC.
- CONTRACTOR SHALL COORDINATE ALL CONCRETE SEALERS, CURING COMPOUNDS, ETC TO ENSURE COMPATIBILITY WITH FLOORING ADHESIVES FOR FLOORING INDICATED IN THE FLOOR PLANS AND FLOOR FINISH PLANS AS APPLICABLE.
- TESTING OF FRESH CONCRETE SHALL BE DONE BY A QUALIFIED TESTING LABORATORY RETAINED BY THE OWNER AND APPROVED BY THE ENGINEER. TESTING SHALL INCLUDE:
 - SUMP
 - AIR CONTENT
 - CONCRETE TEMPERATURE
 - 28 DAY COMPRESSIVE STRENGTH
 - NOTE ANY WATER OR ADMIXTURES ADDED ON-SITE
- REFER TO ASTM C172 AND C94. PERFORM ONE SLUMP AND ONE AIR CONTENT TEST FOR EACH DAYS POUR AND ADDITIONAL TESTS WHEN THE CONCRETE CONSISTENCY SEEMS TO HAVE CHANGED. OBTAIN OPINION OF THE INSPECTOR. REFER TO ASTM C143, C173 AND C231. PERFORM TEMPERATURE TESTS HOURLY WHEN THE AMBIENT AIR TEMPERATURE BELOW 40 DEGREES F OR ABOVE 80 DEGREES F AND ONE TEMPERATURE TEST FOR EACH SET OF COMPRESSIVE STRENGTH SPECIMENS. REFER TO ASTM C1064. PERFORM ONE COMPRESSIVE-STRENGTH TEST FOR EACH DAYS POUR AND AN ADDITIONAL TEST FOR EACH 50 CUBIC YARD MORE THAN THE FIRST 25 CUBIC YARD. TEST ONE SPECIMEN AT 7 DAYS AND 2 SPECIMENS AT 28 DAYS.
- WHERE FOOTINGS, WALLS, OR OTHER STRUCTURAL ELEMENTS INTERSECT, CORNER OR TEE, PROVIDE CORNER BARS WITH REQUIRED LAP LENGTHS TO PROVIDE CONTINUITY OF HORIZONTAL STEEL REINFORCING UNO.
- PROVIDE A MINIMUM OF 3" COVER FOR ANCHOR BOLTS AND LOCATE HORIZONTAL REINFORCEMENT TO THE OUTSIDE FOR ANCHOR BOLT CONTAINMENT, UNO.
- PROVIDE TEMPORARY SHORING AND BRACING OF ALL STRUCTURAL AND MISCELLANEOUS ELEMENTS UNTIL CONCRETE HAS OBTAINED 80% OF DESIGN STRENGTH AND ALL PERMANENT BRACING ELEMENTS ARE INSTALLED.
- UNLESS NOTED OTHERWISE, PROVIDE CONSTRUCTION JOINTS IN SLABS ON GRADE AT APPROXIMATELY 10 FEET IN EACH DIRECTION. PROVIDE CONTROL JOINTS IN SLABS ON GRADE AT APPROXIMATELY 10 FEET ON CENTER IN EACH DIRECTION. JOINTS SHALL FORM NEARLY SQUARE SHAPES. CONTRACTOR SHALL COORDINATE JOINT LOCATIONS WITH LAYOUT AS SHOWN IN THE FLOOR PLANS AND FLOOR FINISH PLANS AS APPLICABLE.
- WHERE DOWELS, BOLTS OR INSERTS ARE CALLED TO BE ANCHORED TO CAST-IN OR PRECAST CONCRETE ELEMENTS USING EPOXY ADHESIVES, USE ANCHORAGE SYSTEM EQUAL TO "HLTI" HIT RE 500 INJECTION ADHESIVE. FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS. ALTERNATE ANCHORAGE SYSTEMS MAY BE USED WITH ENGINEER'S PRIOR APPROVAL.
- SAWN CONTROL JOINTS SHALL BE PLACED AS SOON AS CONCRETE IS ABLE TO BE SAWN WITHOUT PULLING OUT AGGREGATE FROM FLOOR. SLABS SHALL NOT BE LEFT OVERNIGHT, OR ANY REASONABLE AMOUNT OF TIME, WITHOUT SAWING JOINTS. WEATHER IS CRITICAL TO SCHEDULE OF SAWN JOINTS. IF LARGE AREAS OF SLAB ARE POURED AT ONE TIME, SEVERAL SAWS MAY BE REQUIRED TO PROVIDE JOINTS IN TIME TO PREVENT SHRINKAGE CRACKING. PROPER JOINTING OF SLAB IS CRITICAL. REFER TO ACI MANUAL OF CONCRETE PRACTICE FOR PROPER JOINTING TECHNIQUES.
- DETAILING MATERIALS AND INSTALLATION OF CONCRETE REINFORCING STEEL SHALL MEET REQ. AS SET FORTH BY CRSI AND THE AMERICAN CONCRETE INSTITUTE AND THE APPLICABLE BUILDING CODE. SHOP DRAWINGS SHALL BE SUBMITTED INDICATING COMPLETE INFORMATION REQUIRED FOR CONSTRUCTION OF THE REINFORCED CONCRETE ELEMENTS. SHOP DRAWINGS SHALL INCLUDE LAYOUT AND DIMENSIONS OF REINFORCING INCLUDING ANY OPENINGS, CONVENTIONAL REINFORCEMENT DETAILS, CONNECTION DETAILS, PROCEDURES AND SEQUENCES ETC.
- WHEN PLACING CONCRETE IN HOT WEATHER, REFER TO ACI 301. WHEN PLACING CONCRETE IN COLD WEATHER, REFER TO ACI 308.1.

GENERAL FOUNDATION & SLAB ON GRADE NOTES (NO SPECS, NO GEOTECH)

- IN AREA OF THE STRUCTURE, EXISTING ORGANIC MATERIAL, UNSUITABLE SOIL, ABANDONED FOOTINGS AND ANY OTHER EXISTING UNSUITABLE MATERIALS SHALL BE REMOVED. ANY FILL MATERIAL REQUIRED AT THE SITE SHALL BE OF A SIMILAR TYPE SOIL THAT IS PRESENT AT THE SITE EXHIBITING LIQUID LIMIT VALUES BELOW 50 AND PLASTIC INDEX VALUES BELOW 10. ROCKS GREATER THAN 6 IN. IN SIZE SHALL BE EXCLUDED FROM STRUCTURAL FILL LIFTS. FILL MATERIAL SHALL BE PLACED IN LOOSE LIFTS NO GREATER THAN 8 INCHES IN DEPTH AND SHALL BE EXCLUDED FROM 95% OF MAXIMUM DENSITY BASED ON STANDARD PROCTOR DENSITIES (ASTM D-698). ADEQUATE FIELD DENSITY AND MOISTURE CORRELATION TESTS SHALL BE PERFORMED TO ENSURE COMPLIANCE WITH REQUIREMENTS.
- TESTING OF CONTROLLED STRUCTURAL FILL SHALL BE DONE BY A QUALIFIED TESTING LABORATORY RETAINED BY THE OWNER. SEE STRUCTURAL DRAWINGS FOR REQUIRED TESTING. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WORK WITH INSPECTOR.
 - AFTER STRIPPING SITE AND PRIOR TO PLACEMENT OF ANY FILL, NOTIFY SPECIAL INSPECTOR/TESTING AGENCY FOR INSPECTION OF SOIL CONDITIONS. INSPECTION SHALL INCLUDE PROOF ROLLING SITE WITH HEAVY EQUIPMENT PROVIDED BY THE CONTRACTOR.
 - AFTER EXCAVATION FOR FOUNDATIONS AND PRIOR TO PLACEMENT OF STEEL REINFORCEMENT OR CONCRETE, NOTIFY SPECIAL INSPECTOR/TESTING AGENCY FOR INSPECTION OF SOIL CONDITIONS. WHEN SOIL OF INADEQUATE STRENGTH IS NOTED, CONTRACTOR SHALL FURTHER DEEPEEN EXCAVATIONS UNTIL SUITABLE BEARING CONDITIONS ARE VERIFIED BY TESTING. OVEREXCAVATIONS MAY BE BACKFILLED WITH SUITABLE COMPACTED ENGINEERED FILL TO A SUITABLE GRANULAR BASE OR STRUCTURAL CONCRETE BACKFILL.
- EXTERIOR FOOTINGS SHALL BEAR AT MIN. DEPTHS AS NOTED IN FOOTING SECTIONS AND PLANS, 30" BELOW EXTERIOR FINISH GRADE, OR INTO APPROVED BEARING STRATA, WHICHEVER DEPTH IS GREATER. NOTE THAT FOOTING BEARING ELEVATIONS GIVEN ON THE PLANS ARE ESTIMATED DEPTHS ONLY. WHERE UNSUITABLE SOIL IS ENCOUNTERED, FOOTING DEPTHS MAY VARY. EXCAVATION FOR FOOTINGS SHALL BE CUT TO ACCURATE SIZE AND DIMENSIONS AS SHOWN ON PLANS. ALL SOIL BELOW SLABS AND FOOTINGS SHALL BE PROPERLY COMPACTED AND SUBGRADE BROUGHT TO A REASONABLE TRUE AND LEVEL PLANE BEFORE PLACING CONCRETE.
 - CONTINUOUS FOOTINGS AND INDIVIDUAL FOOTINGS ARE DESIGNED FOR A NET ALLOWABLE SOIL BEARING OF:
 - CONTINUOUS FOOTINGS: 1500 PSF
 - INDIVIDUAL FOOTINGS: 1500 PSF
 - FOR EITHER NATURALLY OCCURRING SOIL OR COMPACTED ENGINEERED FILL.
- TYPICAL SLABS ON GRADE
 - THICKNESS: 4" THICK NORMAL WEIGHT CONCRETE
 - REINFORCING: 6x6-W1 4xW1.4 WELDED WIRE FABRIC (WWF)
 - VAPOR BARRIER: 15 MIL. (ASTM E1745 CLASS A)
 - SUBGRADE: A MINIMUM OF 4" OF FREE-DRAINING GRANULAR BASE, COMPACTED PER RECOMMENDATIONS OF GEOTECHNICAL ENGINEER.
 - MAINTAIN REINFORCING 1"-2" BELOW TOP SURFACE OF SLABS ON GRADE. PROVIDE BOLSTERS, CHAIRS OR OTHER MEANS APPROVED IN WRITING BY THE ENGINEER TO PROPERLY LOCATE REINFORCING. GRANULAR BASE SHALL BE #57 STONE OR APPROVED EQUAL UNLESS OTHERWISE INDICATED IN GEOTECHNICAL REPORT. REFER TO ASTM D448 FOR GRADATION.
 - IN SOME CASES 1.5 POUNDS (MIN.) OF POLYPROPYLENE FIBRILLATED FIBERS PER CUBIC YARD REINFORCING MAY BE SUBSTITUTED FOR THE WWF REINFORCING. ANY VISIBLE FIBERS REMAINING AFTER CONCRETE HAS CURED SHALL BE TORCHED OFF. THIS SUBSTITUTION IS NOT ALWAYS APPROPRIATE AND SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
- DRAINAGE FILL SHALL BE A FREE-DRAINING GRANULAR MATERIAL. USE #57 STONE OR EQUAL. REFER TO ASTM D448 FOR GRADATION. CONTRACTOR IS RESPONSIBLE TO MAINTAIN EXCAVATIONS AND BRACKILL MATERIALS AT AN APPROPRIATE MOISTURE CONTENT FOR PROPER SOIL BEARING CAPACITY AND COMPACTION. CONTRACTOR SHALL COORDINATE WITH THE CIVIL / SITE DRAWINGS TO DETERMINE WHETHER FOUNDATION DRAINS AROUND PERIMETER OF BUILDING AND/OR UNDER THE SLAB-ON-GRADE SHALL BE REQUIRED AND, IF SO, SHALL RUN TO DAYLIGHT OR EXTENDED TO THE STORM SEWER. AT RETAINING WALLS FILTER FABRIC SHALL BE PLACED AT THE INTERFACE BETWEEN THE DRAINAGE FILL AND EITHER NATURAL OR COMPACTED SUBGRADE. PERFORATED DRAINS SHALL ALSO BE WRAPPED WITH FILTER FABRIC.
- ELEMENTS WITH TRIBUTARY AREAS GREATER THAN 700 SQUARE FEET SHALL BE PERMITTED TO BE DESIGNED USING THE PROVISIONS FOR MWFRS.

COMPONENTS AND CLADDING WIND PRESSURE

- BUILDING ELEMENTS SHALL BE DESIGNED FOR THE APPROPRIATE COMPONENTS AND CLADDING WIND PRESSURES GIVEN IN THE TABLES BELOW BASED ON THE ELEMENT'S ZONE AND EFFECTIVE WIND AREA. PRESSURES PROVIDED ARE ULTIMATE AND ARE UNFACTORED.
- ZONE 2, 3 AND 5 PRESSURES SHALL BE APPLIED WITHIN 1'-4" OF ALL WALL AND ROOF EDGES AND CORNERS PER ASCE 7-10 FIGURES 30.4-1 & 30.4-2A.

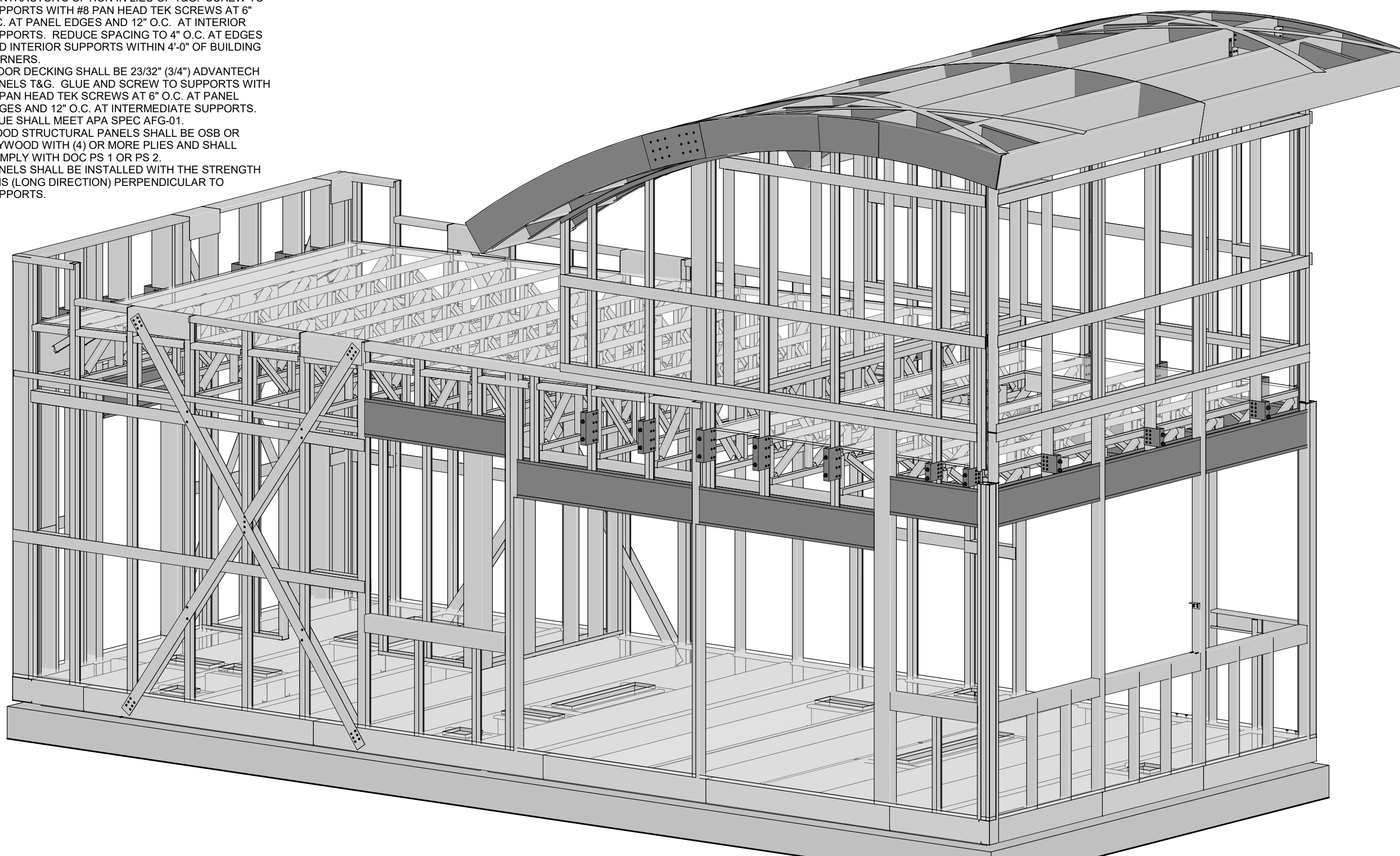
ROOF C&C PRESSURES			
GROSS UPLIFT			
OPEN WEB JOISTS	ZONE 1	27 PSF	
	ZONE 2	32 PSF	
	ZONE 3	32 PSF	
METAL DECK	ZONE 1	29 PSF	
	ZONE 2	49 PSF	
	ZONE 3	73 PSF	
NET UPLIFT			
OPEN WEB JOISTS	ZONE 1	24 PSF	
	ZONE 2	29 PSF	
	ZONE 3	29 PSF	
METAL DECK	ZONE 1	27 PSF	
	ZONE 2	47 PSF	
	ZONE 3	71 PSF	

WALL C&C PRESSURES		
EFFECTIVE WIND AREA (FT²)	ZONE 4 NEG. PRESSURE	ZONE 5 NEG. PRESSURE
10	41 PSF	50 PSF
20	39 PSF	47 PSF
50	37 PSF	42 PSF
100	34 PSF	39 PSF
500+	31 PSF	31 PSF

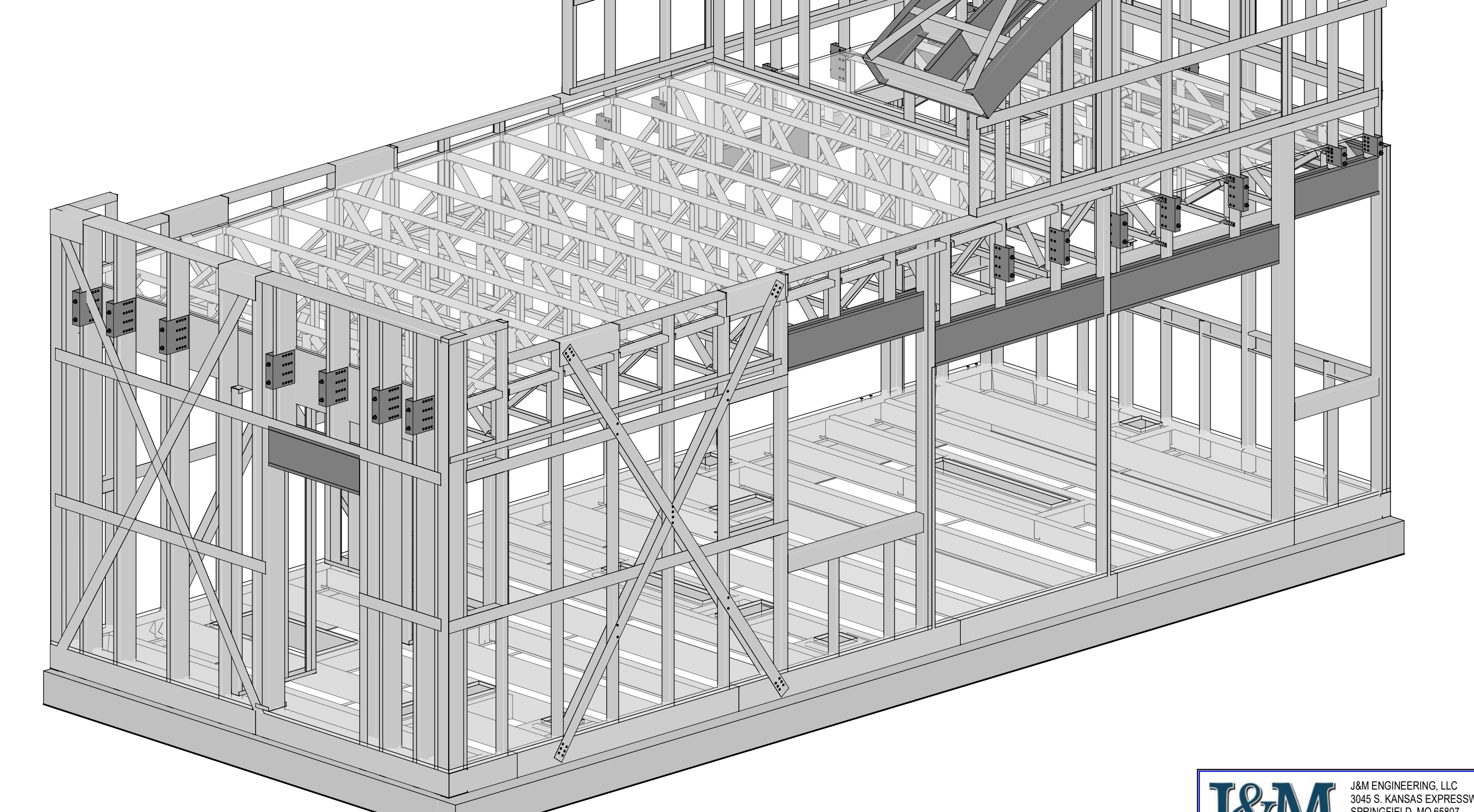
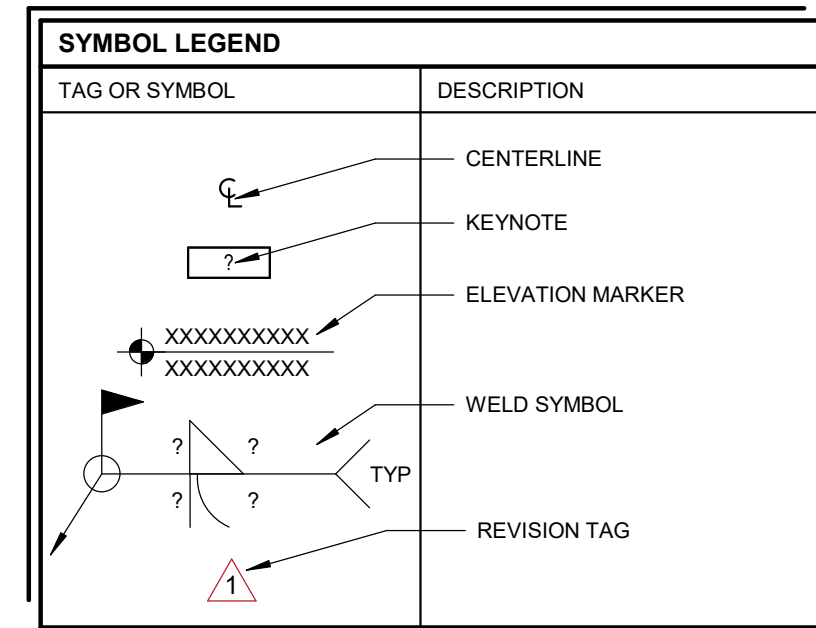
WOOD SHEATHING & DECKING NOTES ANCHORED TO LIGHT GAUGE

- TYPICAL WALL SHEATHING SHALL BE 7/16" (1/2") APA RATED 24/16 STRUCTURAL, 1 EXPOSURE, 1 PANELS. SCREW TO SUPPORTS WITH #8 PAN HEAD TEK SCREWS AT 8" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. PROVIDE LIGHT GAUGE BLOCKING AT ALL PANEL EDGES. SEE SHEAR WALL SCHEDULE FOR REQUIREMENTS AT SHEAR WALLS.
- ROOF DECKING SHALL BE 19/32" (5/8") STRUCTURAL, 1 EXPOSURE, 1 APA RATED 40/20 TONGUE AND GROOVE PANELS. "H" CLIPS MAY BE USED AT THE CONTRACTOR'S OPTION IN LIEU OF T&G. SCREW TO SUPPORTS WITH #8 PAN HEAD TEK SCREWS AT 8" O.C. AT PANEL EDGES AND 12" O.C. AT INTERIOR SUPPORTS. REDUCE SPACING TO 4" O.C. AT EDGES AND INTERIOR SUPPORTS WITHIN 4'-0" OF BUILDING CORNERS.
- FLOOR DECKING SHALL BE 23/32" (3/4") ADVANTECH PANELS T&G. GLUE AND SCREW TO SUPPORTS WITH #8 PAN HEAD TEK SCREWS AT 8" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. GLUE SHALL MEET APA SPEC AF-01.
- WOOD STRUCTURAL PANELS SHALL BE OSB OR PLYWOOD WITH (4) OR MORE PLYS AND SHALL COMPLY WITH DOC PS 1 OR PS 2.
- PANELS SHALL BE INSTALLED WITH THE STRENGTH AXIS (LONG DIRECTION) PERPENDICULAR TO SUPPORTS.

ISOMETRIC VIEWS FOR REFERENCE ONLY



ISOMETRIC VIEW FRONT SIDE (MODULAR BUILDING)



ISOMETRIC VIEW BACK SIDE (MODULAR BUILDING)

BUILDING SUPPLIER / ERECTOR CREATIVE MODULAR CONSTRUCTION

TORGERSON
DESIGN PARTNERS
ARCHITECTURE / REAL ESTATE / DEVELOPMENT

CMC
CREATIVE MODULAR CONSTRUCTION

7 BREW COFFEE
LEE'S SUMMIT, MO

LEE'S SUMMIT, MISSOURI 64086

STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER
JOHN CHARLES MILLER
NUMBER E-29518

6.22.2022

ENGINEER OF RECORD:
JOHN C. MILLER
E-29518
E-2011011004

PROJECT NUMBER:
220337BL5

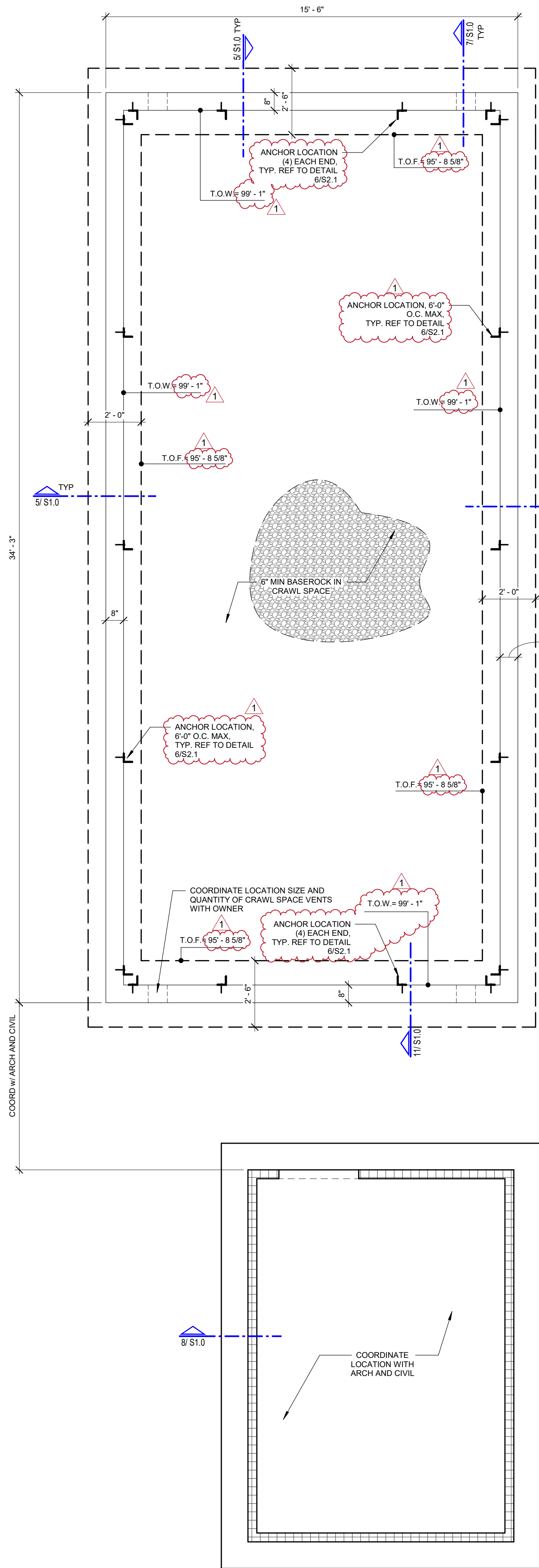
REVISION:

S0.0
GENERAL NOTES

DATE: 04/22/2022



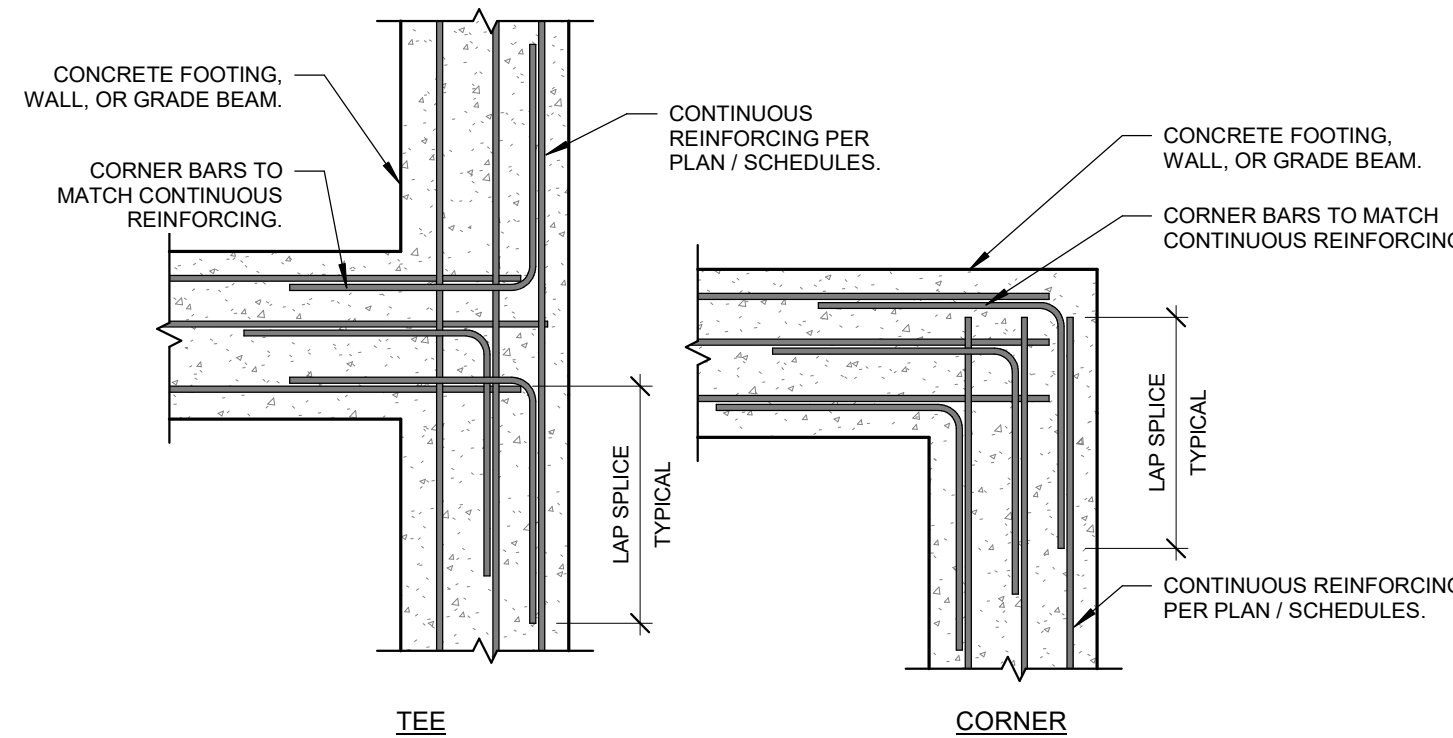
J&M ENGINEERING, LLC
3045 S. KANSAS EXPRESSWAY
SPRINGFIELD, MO 65807
PHONE: 417.708.9315
www.jandmstructural.com
E-2011011004



1 FLOOR PLAN
3/8" = 1'-0"

BAR SIZE	STRAIGHT DOWEL DEVELOPMENT LENGTHS (INCHES)								
	TENSION						COMPRESSION		
	OTHER BARS			TOP BARS					
	3000 PSI CONCRETE	4000 PSI CONCRETE	5000 PSI CONCRETE	3000 PSI CONCRETE	4000 PSI CONCRETE	5000 PSI CONCRETE	3000 PSI CONCRETE	4000 PSI CONCRETE	5000 PSI CONCRETE
#3	17	15	13	22	19	17	9	8	8
#4	22	19	17	29	25	22	11	10	9
#5	28	24	22	36	31	28	14	12	12
#6	33	29	26	43	37	33	17	15	14
#7	48	42	37	63	54	49	20	17	16
#8	55	48	43	72	62	55	22	19	18
#9	62	54	48	81	70	63	25	22	21
#10	70	61	54	91	79	70	28	25	23
#11	78	67	60	101	87	78	31	27	25

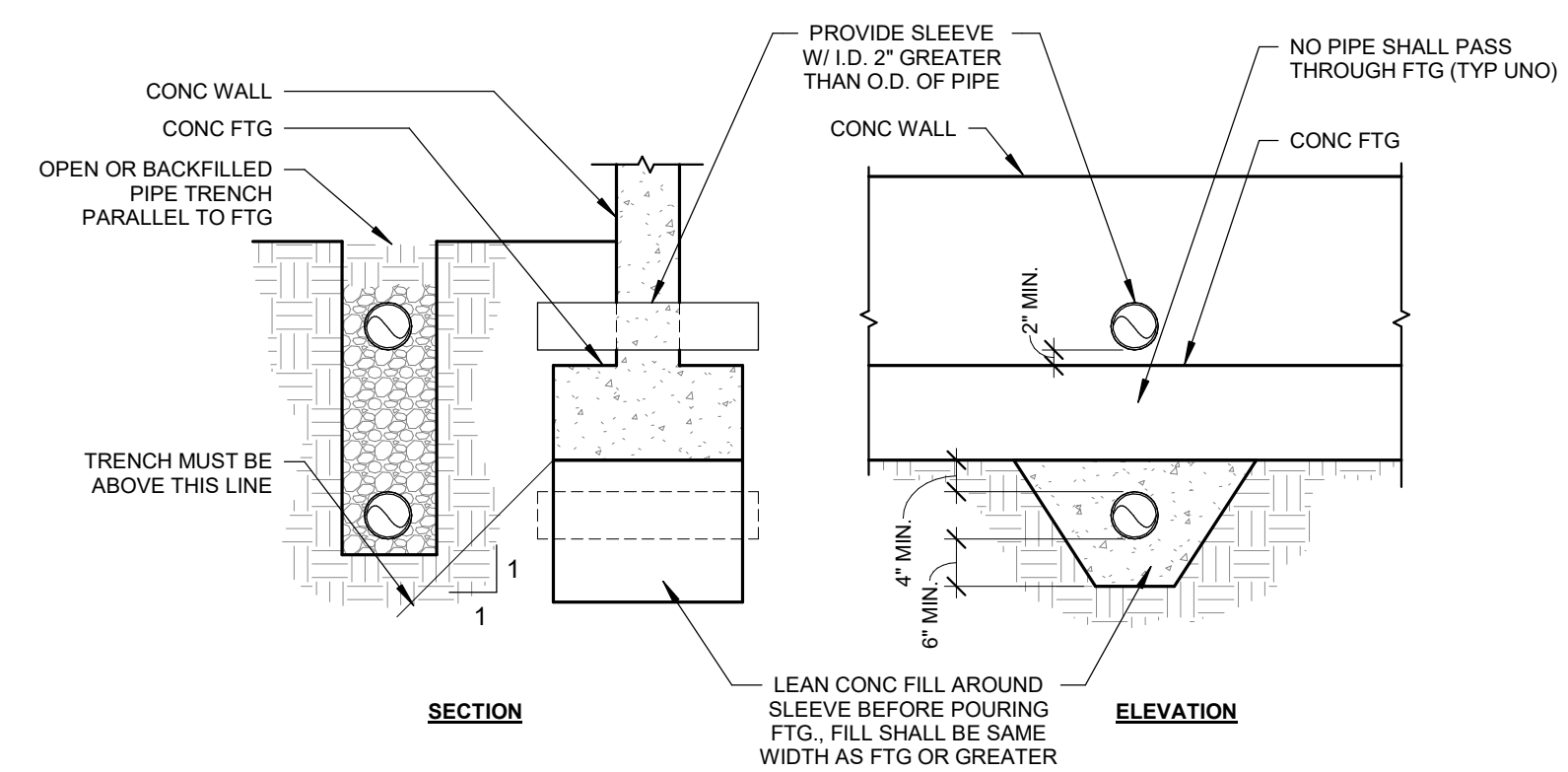
- NOTES:
- TOP BARS ARE HORIZONTAL REINFORCEMENT PLACED SO THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCEMENT.
 - LAP SPLICE LENGTHS ARE BASED ON BARS SPACED AT (2) BAR DIAMETERS OR MORE ON CENTER W/ (1) BARS DIAMETER MINIMUM ON CONCRETE COVER. NOTIFY ENGINEER IF SPACING IS LESS THAN (2) BAR DIAMETERS.



2 TYPICAL CORNER BAR REINFORCING
3/4" = 1'-0"

BAR SIZE	LAP SPLICE LENGTHS (INCHES)								
	TENSION (CLASS B SPLICE)						COMPRESSION		
	OTHER BARS			TOP BARS					
	3000 PSI CONCRETE	4000 PSI CONCRETE	5000 PSI CONCRETE	3000 PSI CONCRETE	4000 PSI CONCRETE	5000 PSI CONCRETE	3000 PSI CONCRETE	4000 PSI CONCRETE	5000 PSI CONCRETE
#3	22	19	17	28	24	22	12		
#4	29	25	22	37	32	29	15		
#5	36	31	28	47	40	36	19		
#6	43	37	33	56	48	43	23		
#7	63	54	49	81	70	63	27		
#8	72	62	55	93	80	72	30		
#9	81	70	63	105	91	81	34		
#10	91	79	70	118	102	91	38		
#11	101	87	78	131	113	101	43		

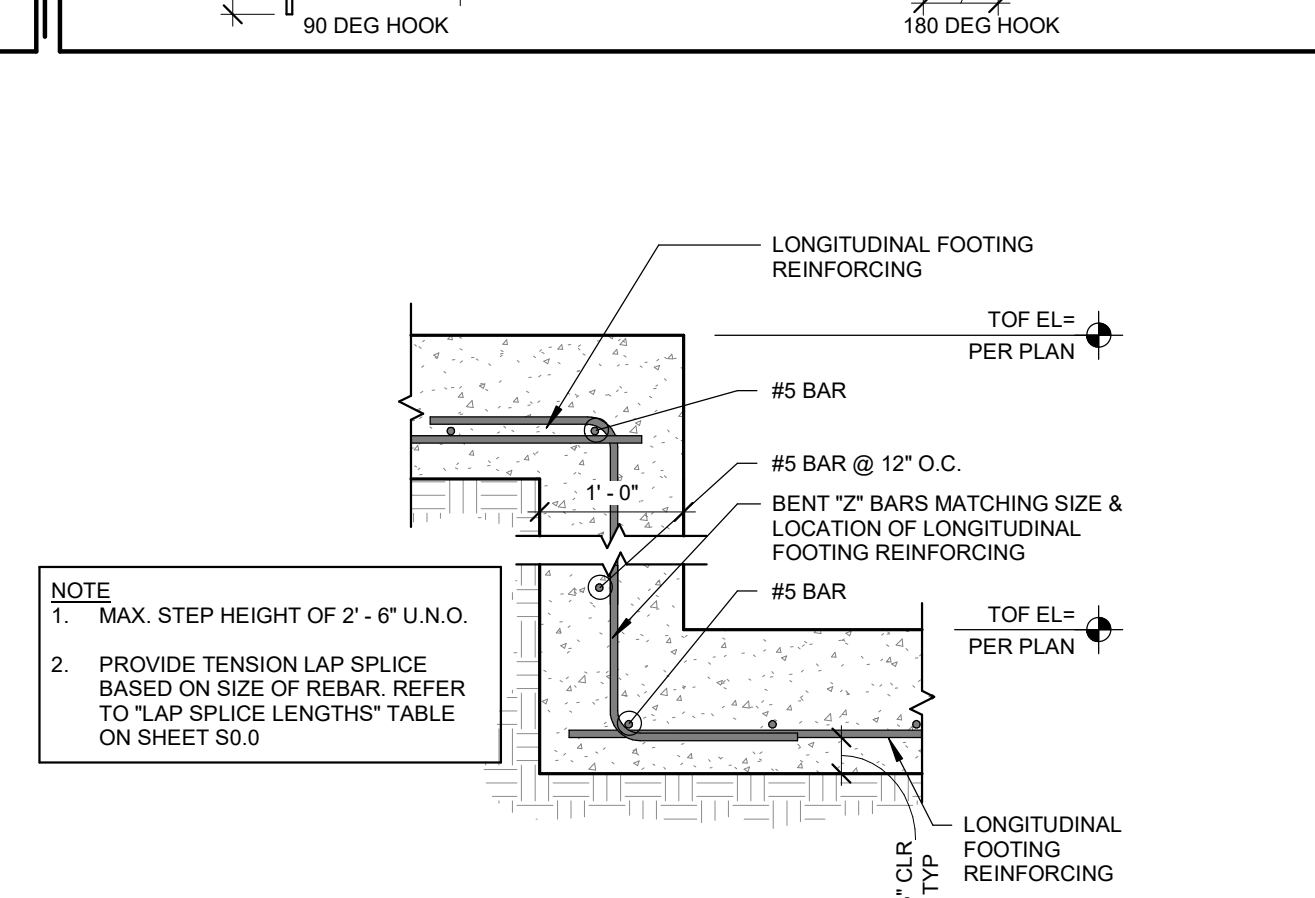
- NOTES:
- TOP BARS ARE HORIZONTAL REINFORCEMENT PLACED SO THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCEMENT.
 - LAP SPLICE LENGTHS ARE BASED ON BARS SPACED AT (2) BAR DIAMETERS OR MORE ON CENTER W/ (1) BAR DIAMETER MINIMUM OF CONCRETE COVER. NOTIFY ENGINEER IF SPACING IS LESS THAN (2) BAR DIAMETERS.



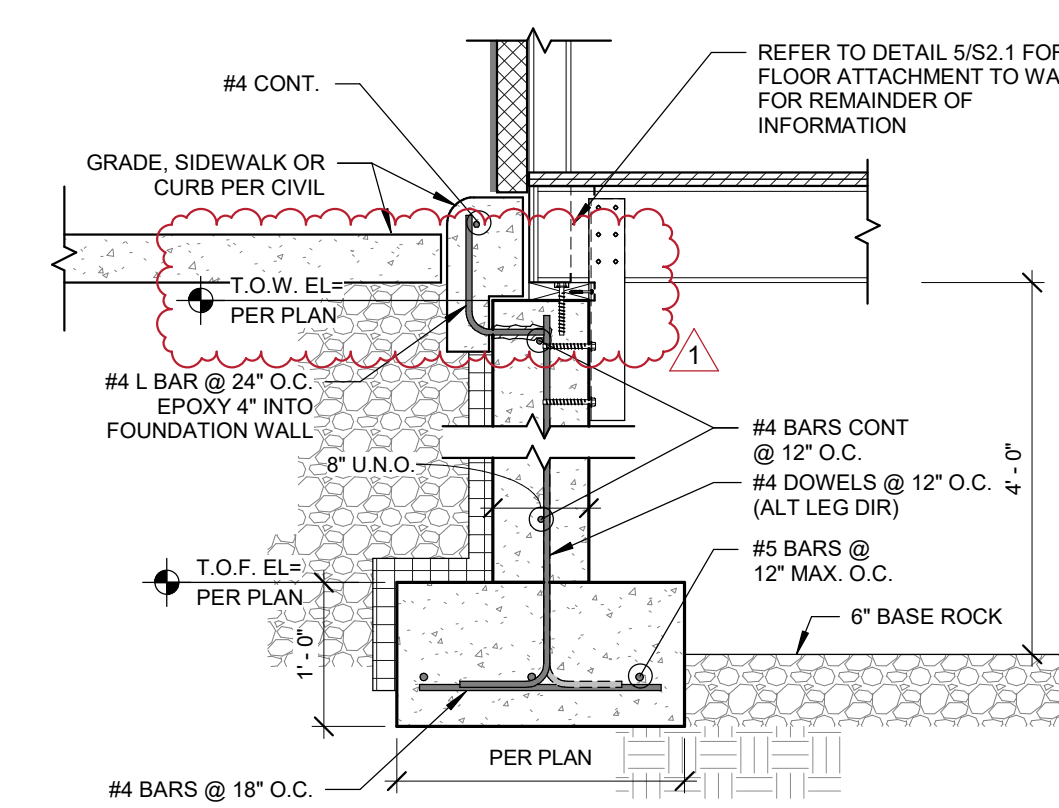
3 PIPE PENETRATION DETAIL
1/2" = 1'-0"

BAR SIZE	HOOKED DOWEL DEVELOPMENT LENGTHS IN TENSION (INCHES)					
	EMBEDMENT			EXTENSION		MINIMUM RADIUS OF BEND (INCHES)
	3000 PSI CONCRETE	4000 PSI CONCRETE	5000 PSI CONCRETE	90 DEG HOOK	180 DEG HOOK	
#3	8	7	6	4.5	2.5	1.50
#4	11	9	8	6.0	2.5	2.00
#5	14	12	11	7.5	2.5	2.50
#6	16	14	13	9.0	3.0	3.00
#7	19	17	15	10.5	3.5	3.50
#8	22	19	17	12.0	4.0	4.00
#9	25	21	19	13.5	4.5	5.64
#10	28	24	22	15.2	5.1	6.35
#11	31	27	24	16.9	5.6	7.05

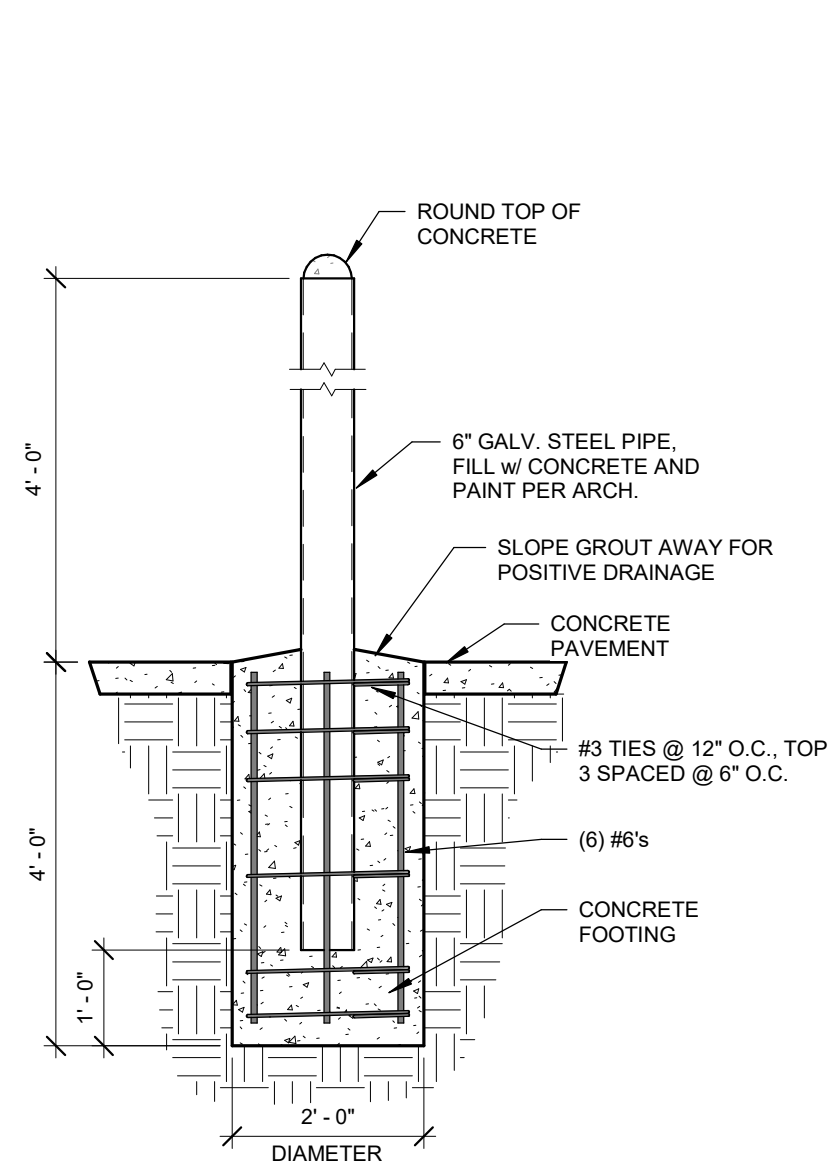
- NOTES:
- TOP BARS ARE HORIZONTAL REINFORCEMENT PLACED SO THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCEMENT.
 - LAP SPLICE LENGTHS ARE BASED ON BARS SPACED AT (2) BAR DIAMETERS OR MORE ON CENTER W/ (1) BAR DIAMETER MINIMUM OF CONCRETE COVER. NOTIFY ENGINEER IF SPACING IS LESS THAN (2) BAR DIAMETERS.



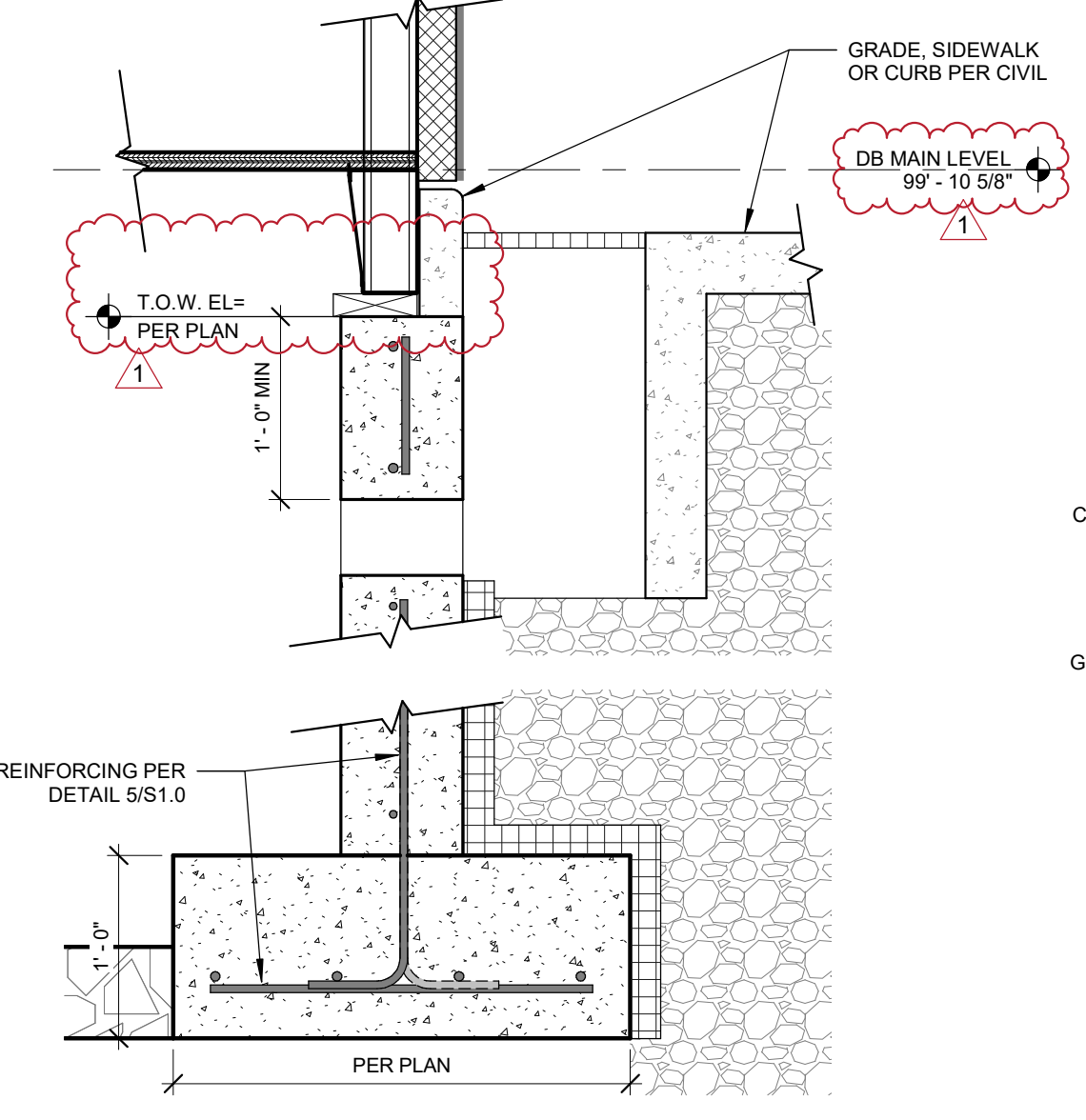
4 TYPICAL FOOTING STEP
3/4" = 1'-0"



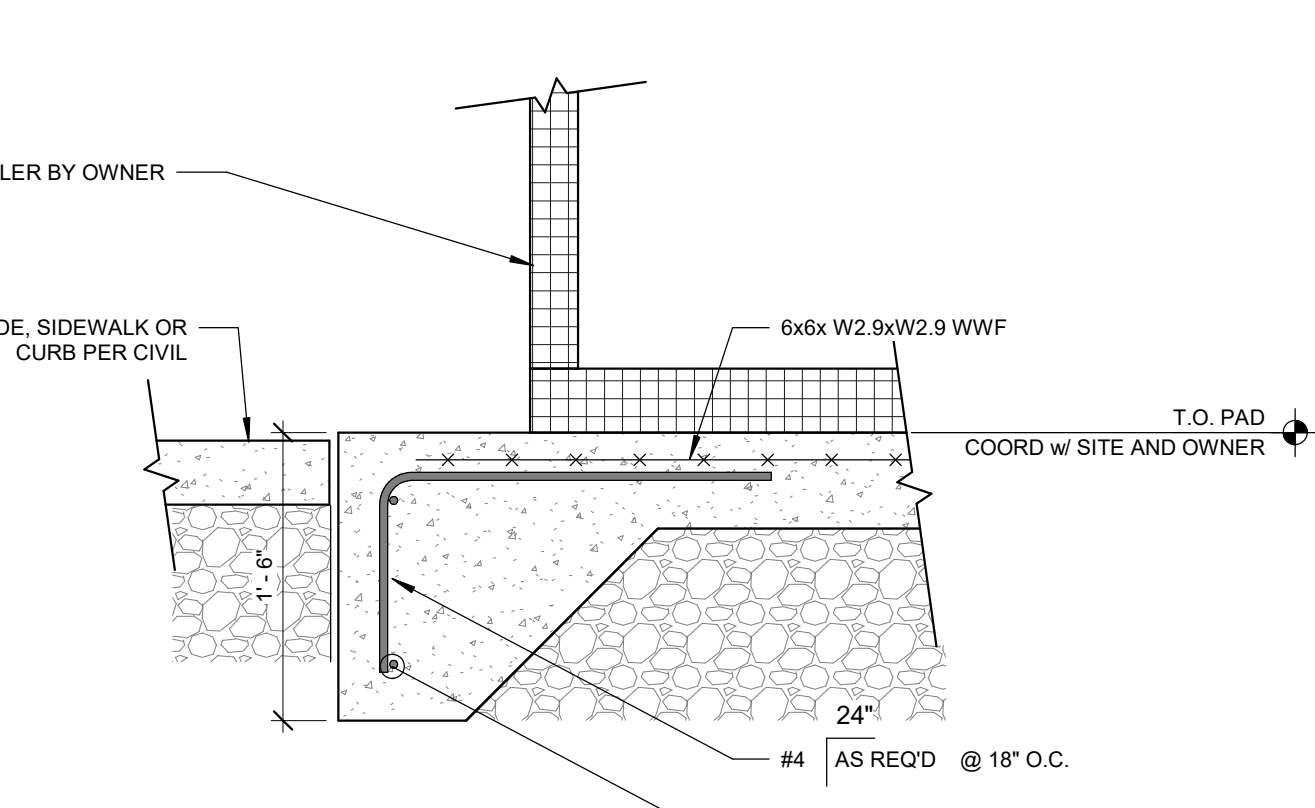
5 TYPICAL EXTERIOR STEM WALL
3/4" = 1'-0"



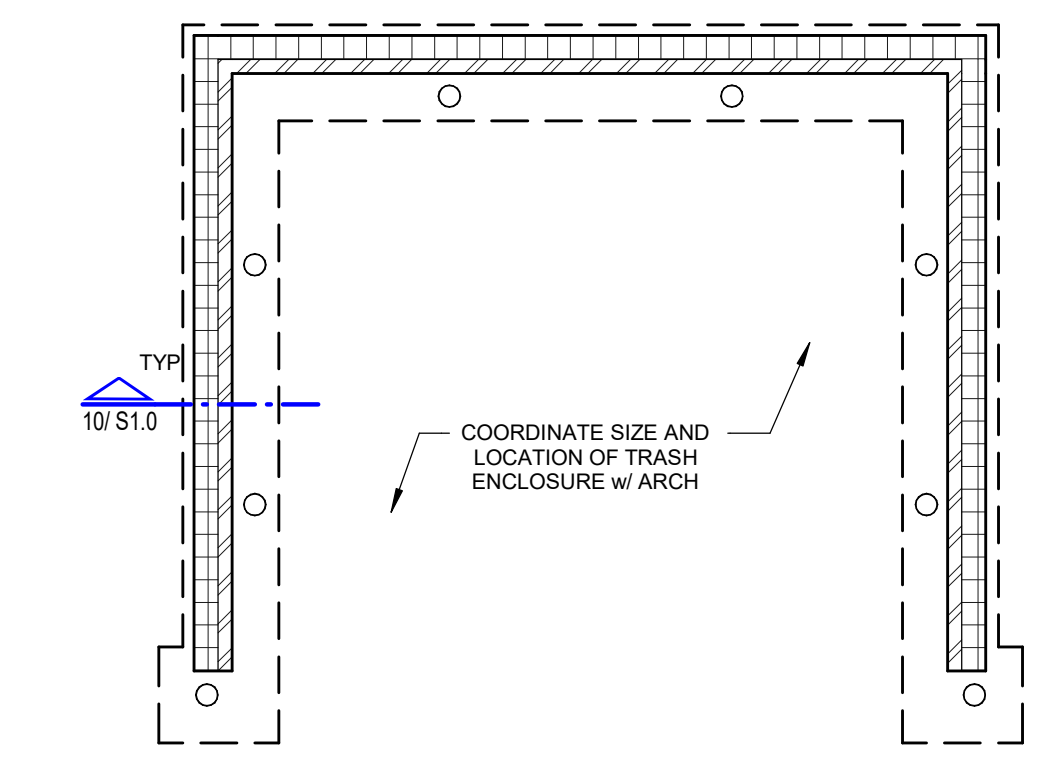
6 BOLLARD DETAIL
1/2" = 1'-0"



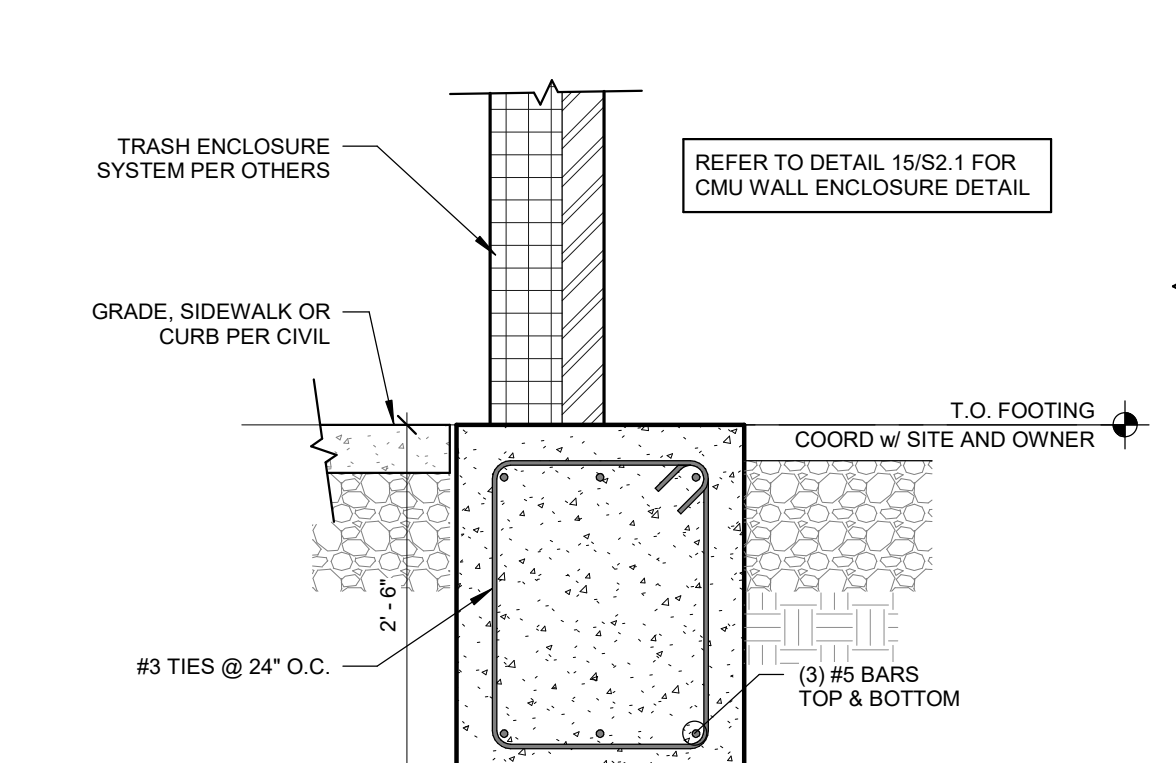
7 SECTION FOR CRAWSPACE VENT
1" = 1'-0"



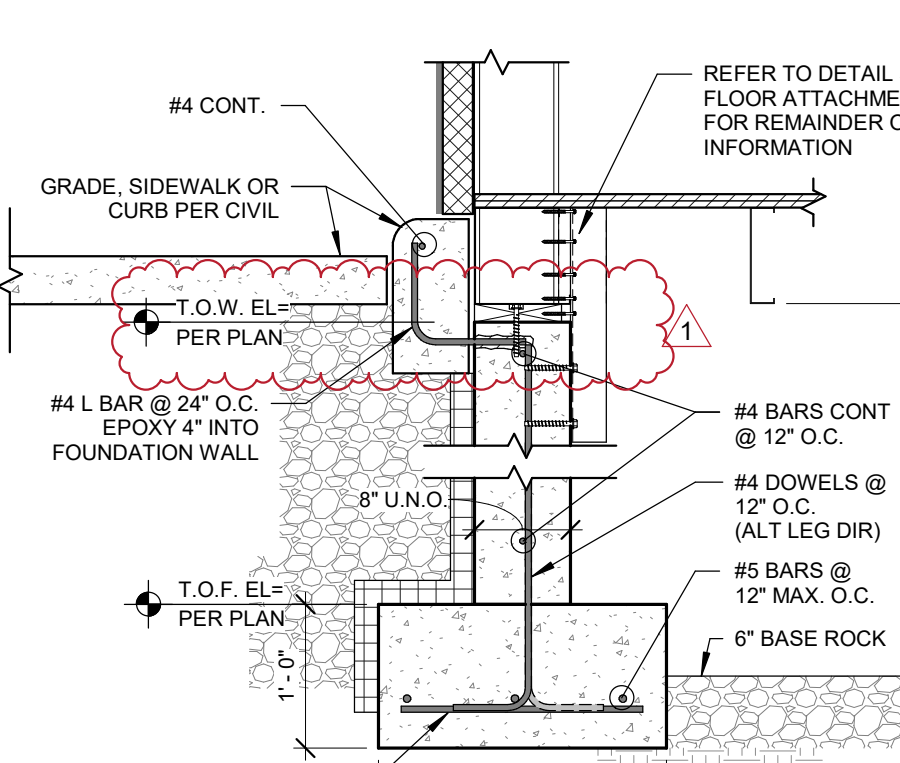
8 COOLER PAD DETAIL
1" = 1'-0"



9 TRASH ENCLOSURE PLAN
1/4" = 1'-0"



10 TRASH ENCLOSURE FOUNDATION
3/4" = 1'-0"



11 EXTERIOR STEM WALL NO OVERHANG
3/4" = 1'-0"



1. MECHANICAL EQUIPMENT WEIGHTS AND LOCATIONS ARE ESTIMATED ONLY. COORDINATE ALL RTU EQUIPMENT LOCATIONS AND CURBS WITH MEP AND ARCH.
2. COORDINATE ROOF OPENINGS WITH MEP AND ARCH. PROVIDE SUPPLEMENTAL FRAMING PER NOTES AND DETAILS AT OPENINGS.
3. MECHANICAL HANGERS AND OTHER ITEMS SUPPORTED FROM TRUSS FRAMING ARE TO BE SUPPORTED AT PANEL POINTS ONLY.
4. PROVIDE (2) 3/4" BOLTS AT EACH LIFTING POINT LOCATION.

KEYNOTE	DESCRIPTION
05.100	7/840" x 2" x 12" 14 GA FLOOR JOIST SPACING @ 24" O.C. MAX.
05.102	16 GA STUD WITH A TOP AND BOTTOM 16 GA TRACK WITH 2" VERTICAL LEGS.
05.104	12 GA CLIP.
05.108	12"x 2" 12" 14 GA ROOF JOIST SPACED @ 24" O.C. MAX.
05.109	PROVIDE FLOOR JOIST BOX FRAME AT ALL OPENINGS, MATCH GA OF FLOOR JOIST.
05.111	18" 18" x 2" 12" 14 GA JOIST, @ ROOF DECK BEARING
05.112	ALL EXACT MEMBER SIZES PER MODULAR BUILDING SUPPLIERS ENGINEERING.
05.113	HEADER PER MODULAR BUILDING SUPPLIERS ENGINEERING.

TORGERSON
DESIGN PARTNERS
ARCHITECTURE / REAL ESTATE / DEVELOPMENT

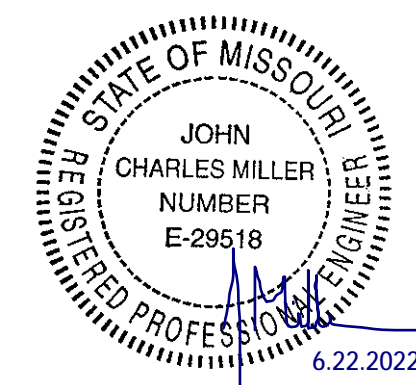


116 NORTH 2ND AVENUE · OZARK, MO 65721 · P (417) 581-8889 · F (417) 581-9002
ARCHITECTURAL CORPORATION MISSOURI LICENSE NUMBER: A-2010011427



7 BREW COFFEE

LEE'S SUMMIT, MO



ENGINEER OF RECORD:
JOHN C. MILLER
E-29518
E-2011011004

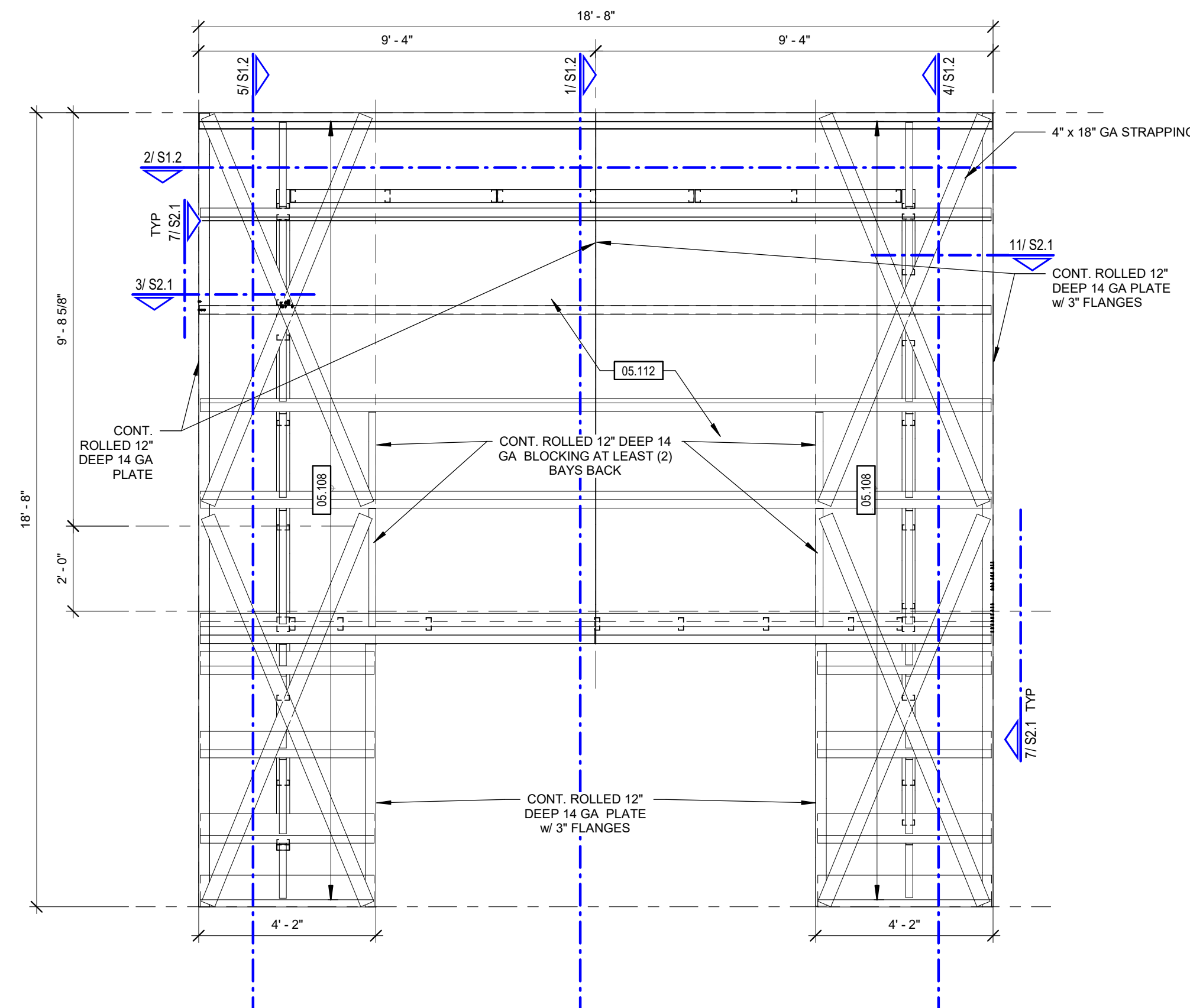
PROJECT NUMBER:
22033 7BLS

REVISION:

S1.1

FRAMING PLANS

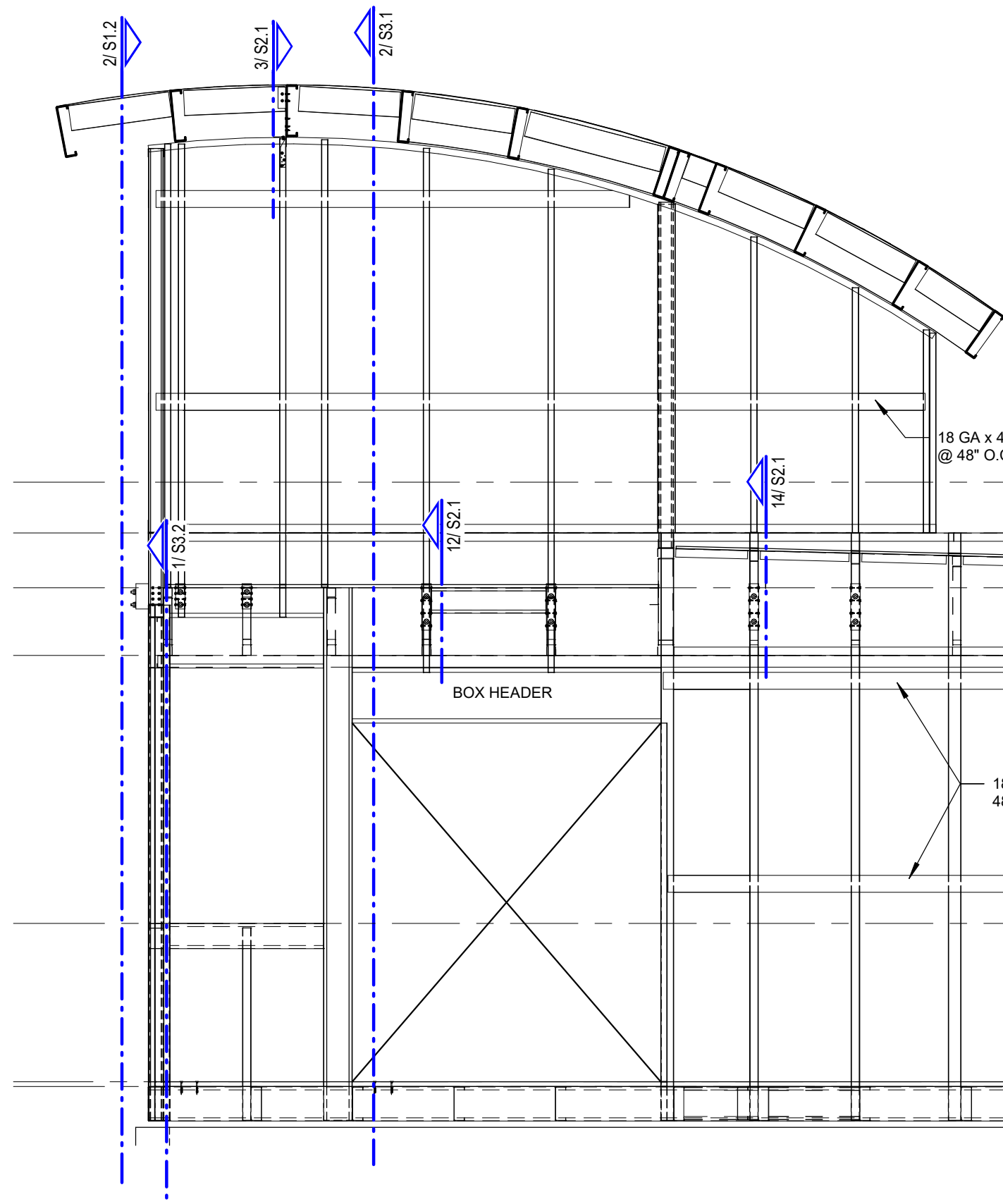
DATE: 04/22/2022



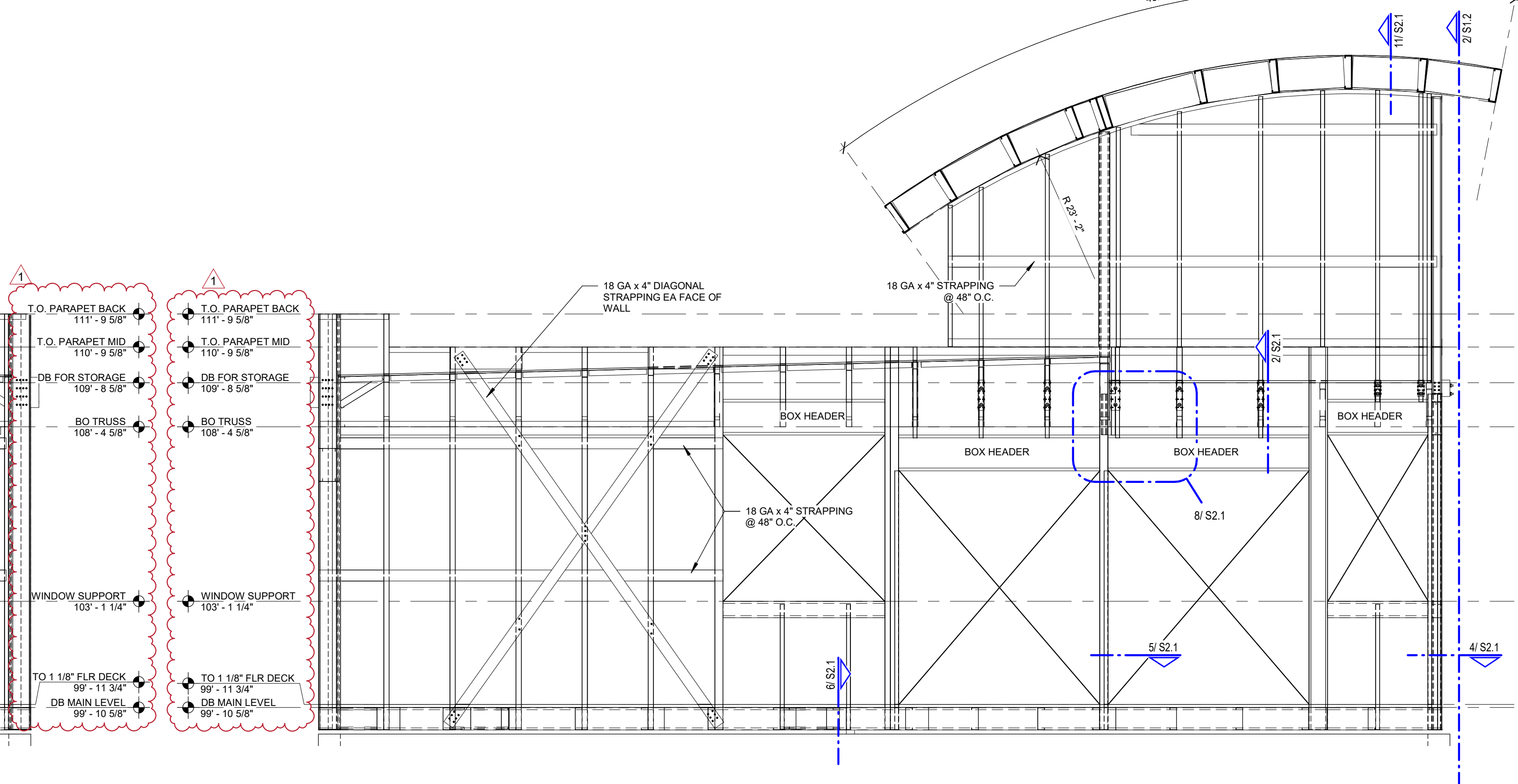
1 FLOOR PLAN
3/8" = 1'-0"

2 ROOF AND STORAGE

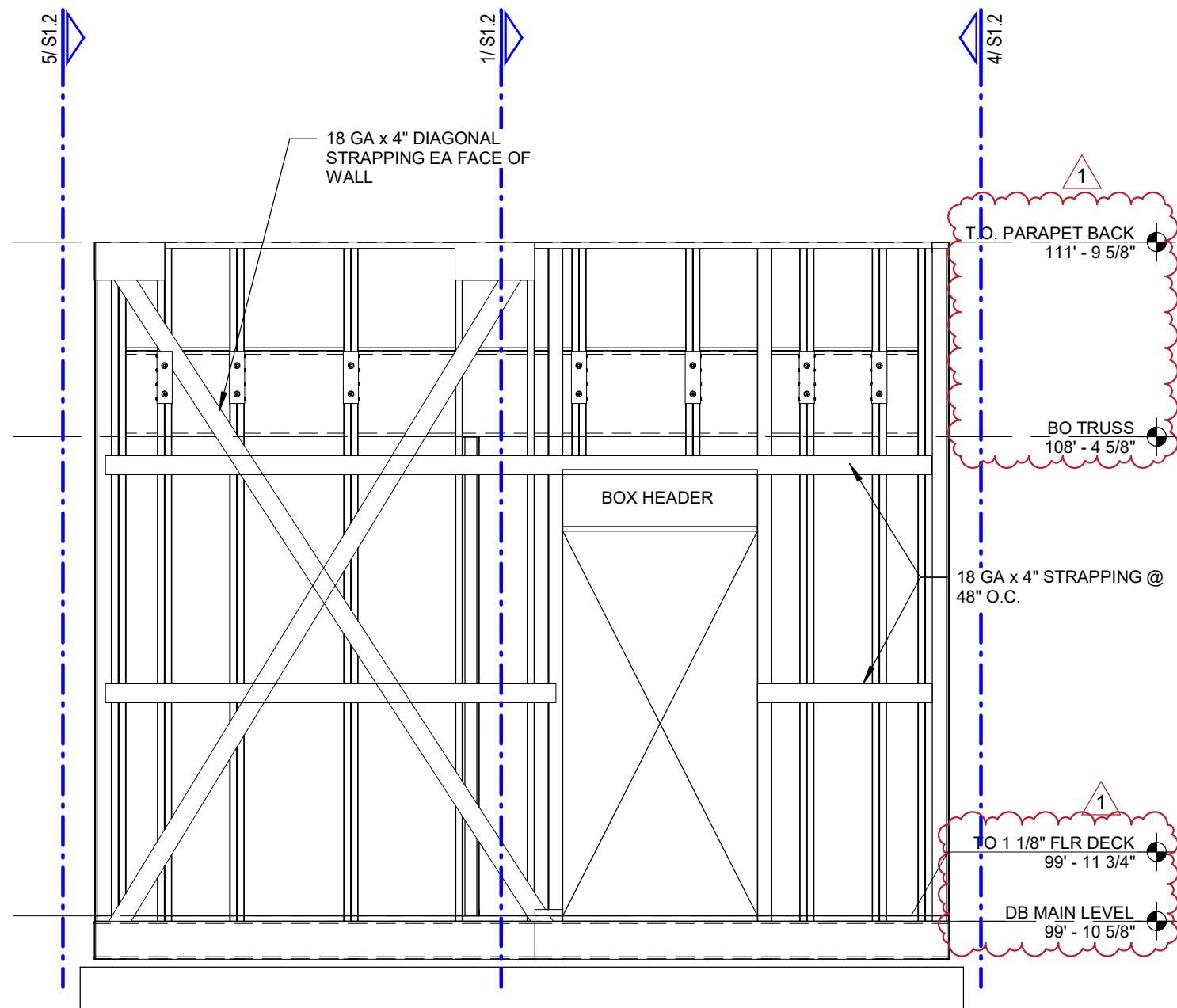
3 ARC ROOF CANOPY
3/8" = 1'-0"



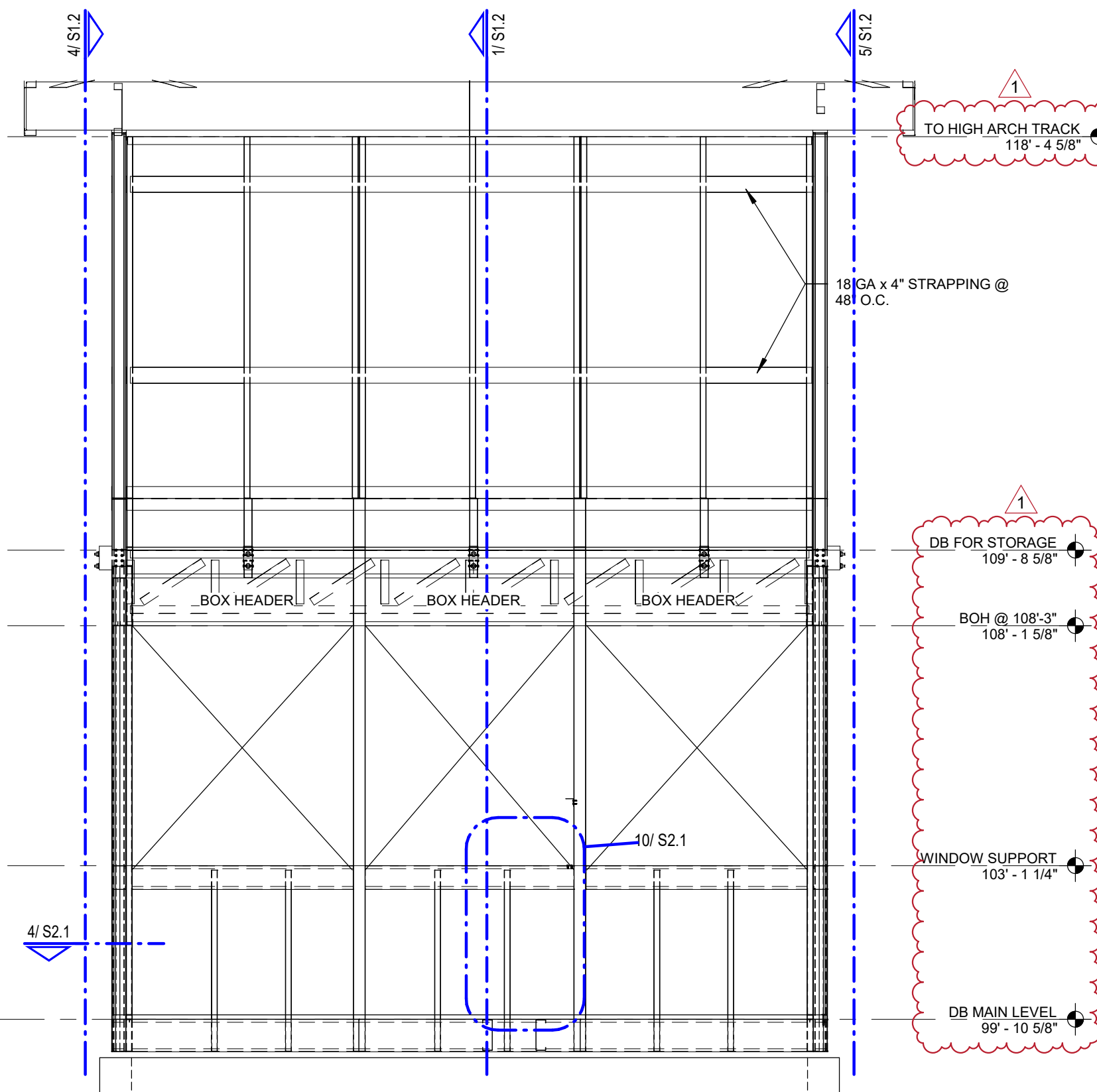
5 MILK SIDE ELEVATION
3/8" = 1'-0"



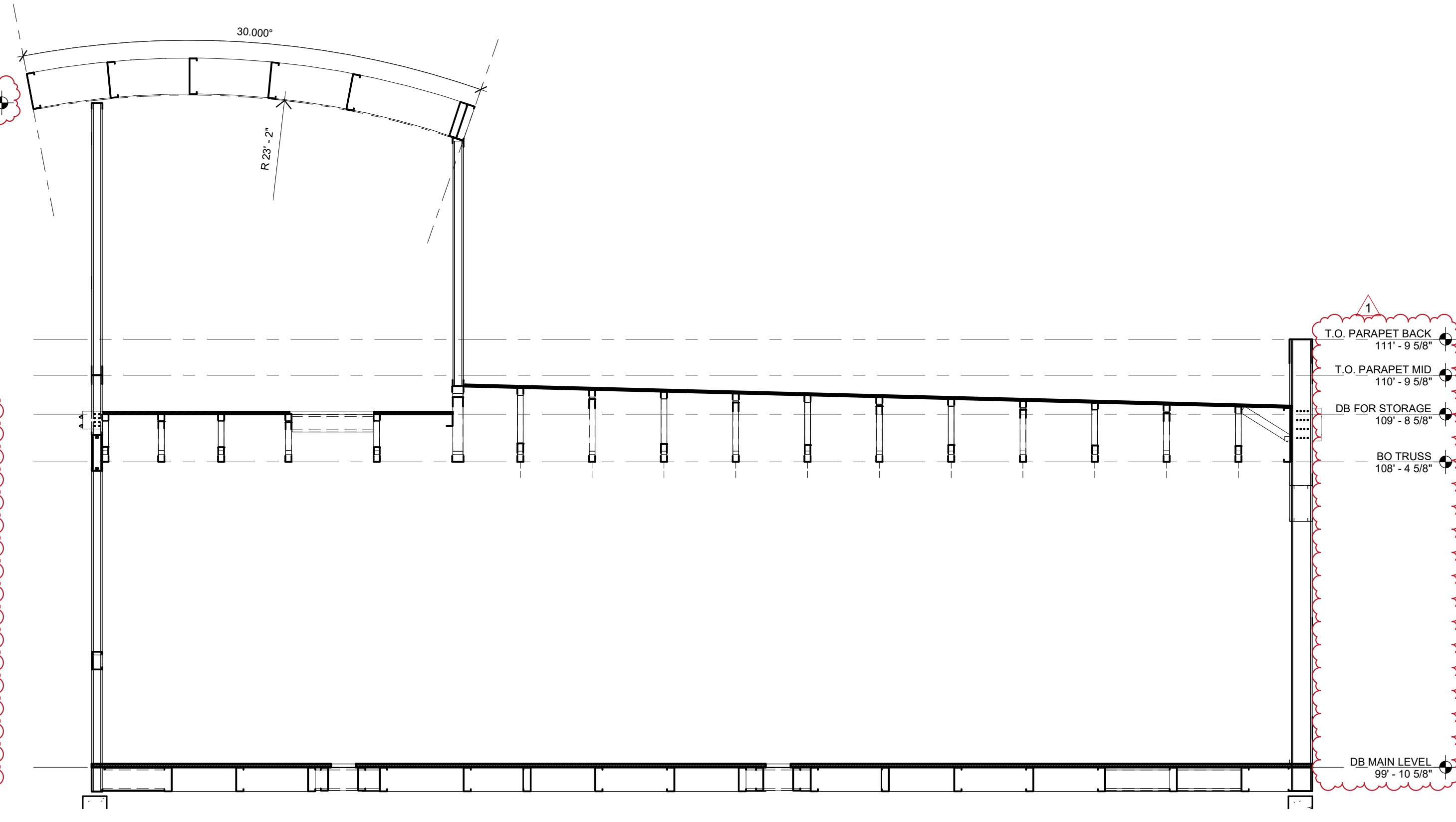
4 SHOT SIDE ELEVATION
3/8" = 1'-0"



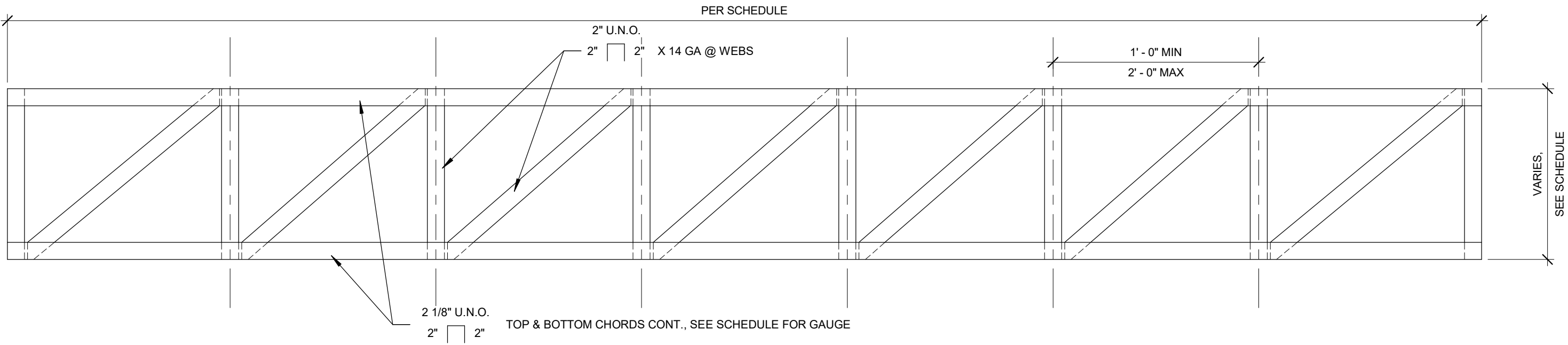
3 SHORT ENDWALL ELEVATION
3/8" = 1'-0"



2 ENDWALL ELEVATION
3/8" = 1'-0"

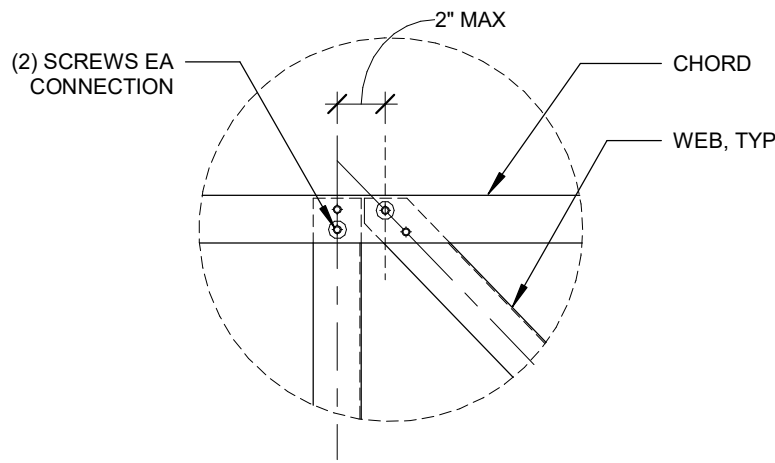


1 LONGITUDINAL MIDDLE SECTION
3/8" = 1'-0"

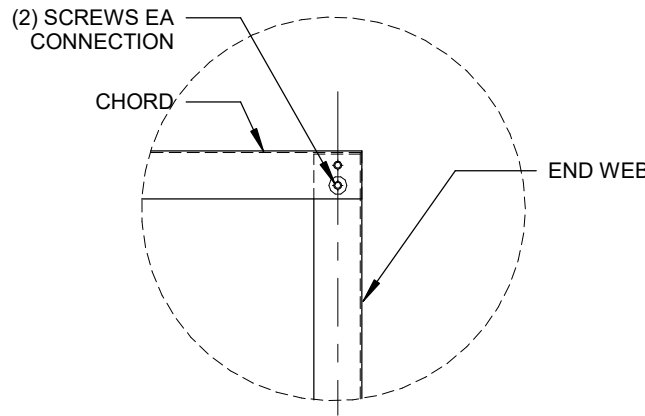


TRUSS	DEPTH	WEB WIDTH	LENGTH	CHORD GAUGE
T1	18 9/16"	2.5"	14' - 4 5/8"	14
T2	19 3/16"	2.5"	14' - 4 5/8"	14
T3	19 13/16"	2.5"	14' - 4 5/8"	14
T4	20 7/16"	2.5"	14' - 4 5/8"	14
T5	21 1/16"	2.5"	14' - 4 5/8"	14
T6	21 11/16"	2.5"	14' - 4 5/8"	14
T7	22 5/16"	2.5"	14' - 4 5/8"	14
T8	22 15/16"	2.5"	14' - 4 5/8"	14
T9	23 1/2"	2.5"	14' - 4 5/8"	14
T10	24 1/8"	2.5"	14' - 4 5/8"	14
T11	24 3/4"	2.5"	14' - 4 5/8"	14
T12	25 3/8"	2.5"	14' - 4 5/8"	14
T13	16"	2.5"	14' - 11 3/4"	14

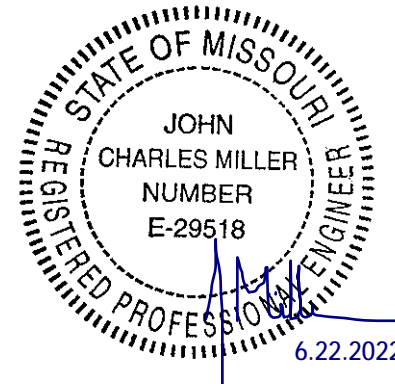
1 TYPICAL LONG TRUSS ELEVATION
1" = 1'-0"



2 TYPICAL TRUSS MEMBER CONNECTION
1 1/2" = 1'-0"



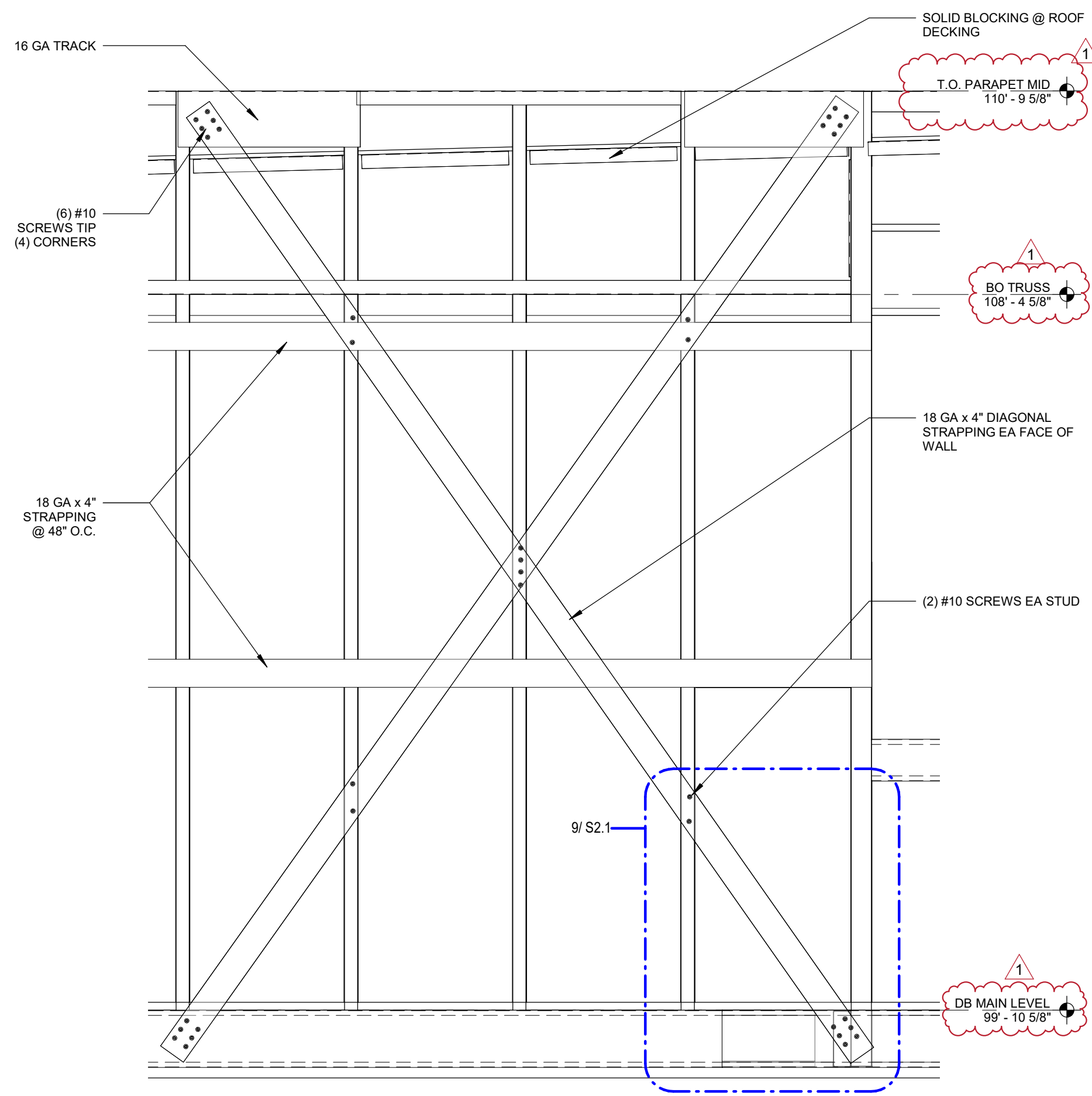
3 TYPICAL TRUSS END MEMBER CONNECTION
1 1/2" = 1'-0"



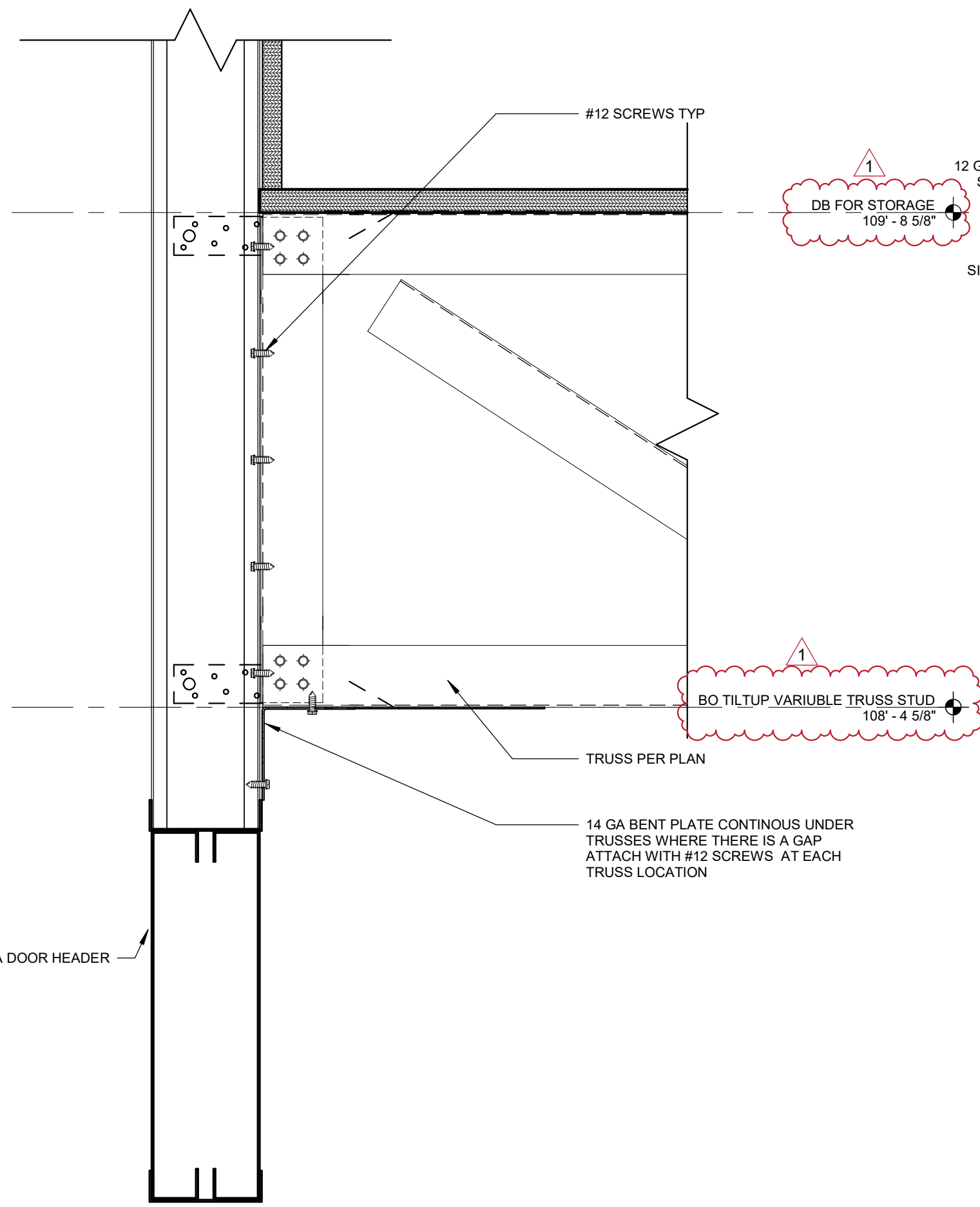
ENGINEER OF RECORD:
JOHN C. MILLER
E-29518
E-2011011004

PROJECT NUMBER:
22033 7BLS

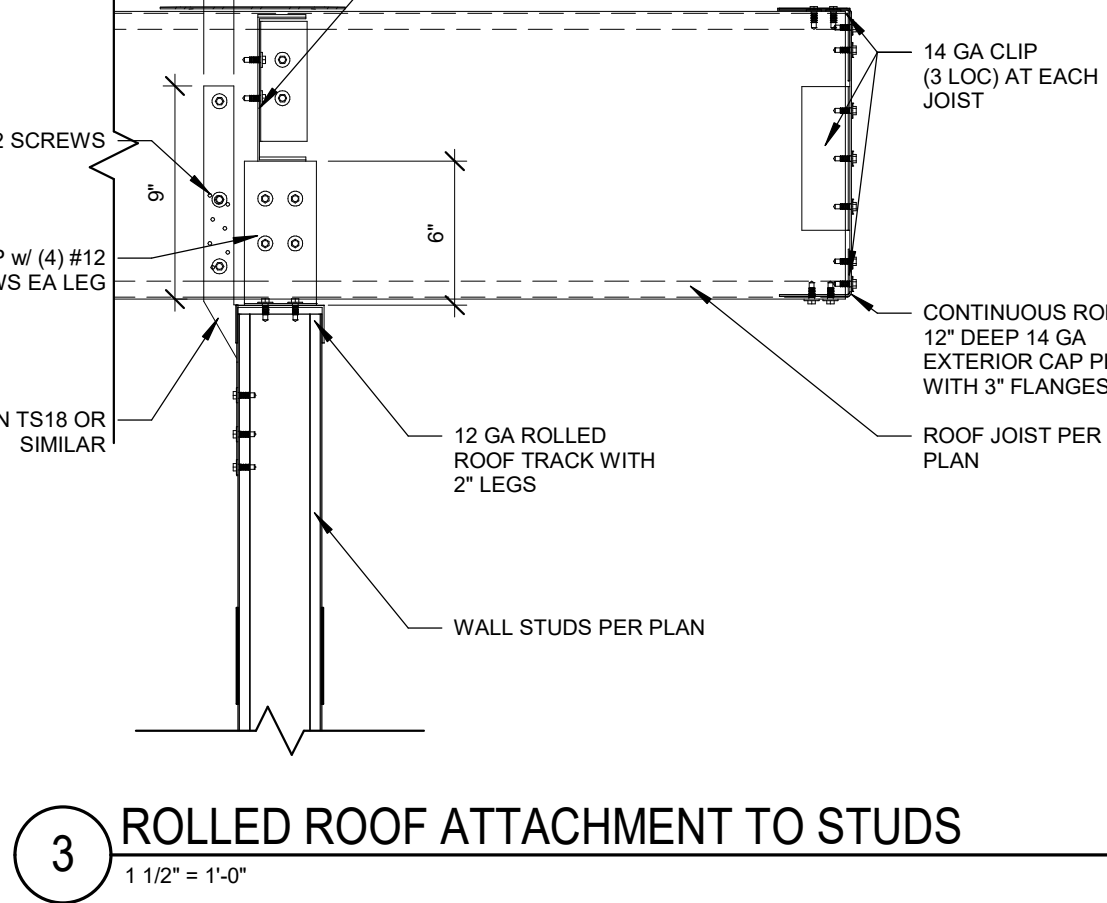
REVISION:



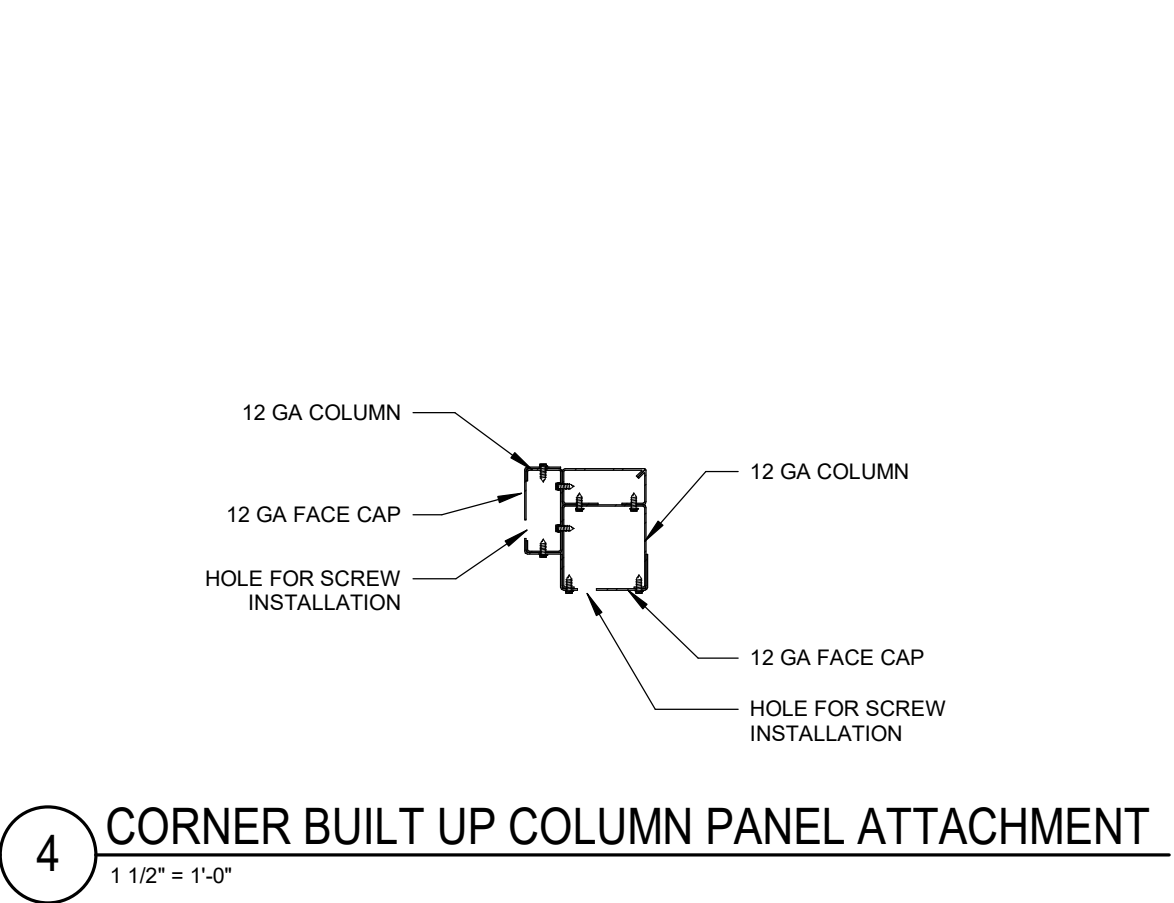
1 STRAP BRACING ELEVATION
3/4" = 1'-0"



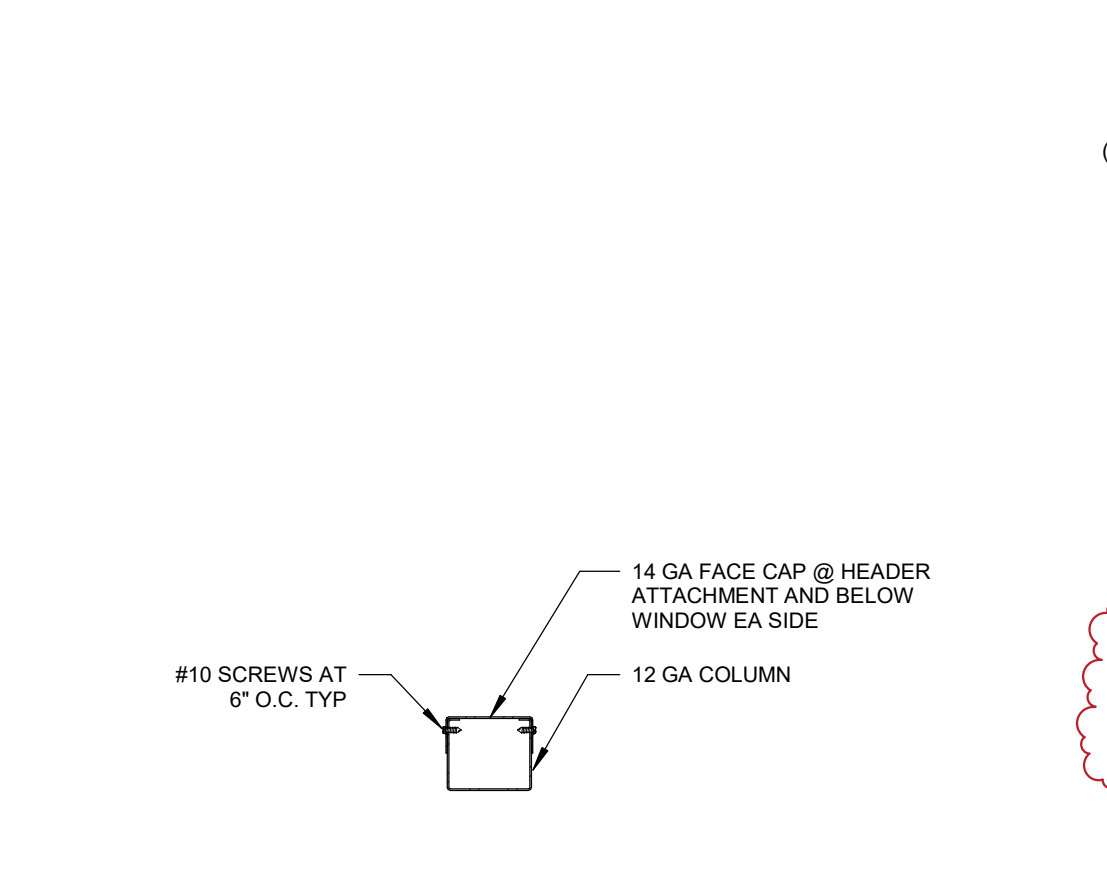
2 SECTION AT TRUSS TO HEADER
3" = 1'-0"



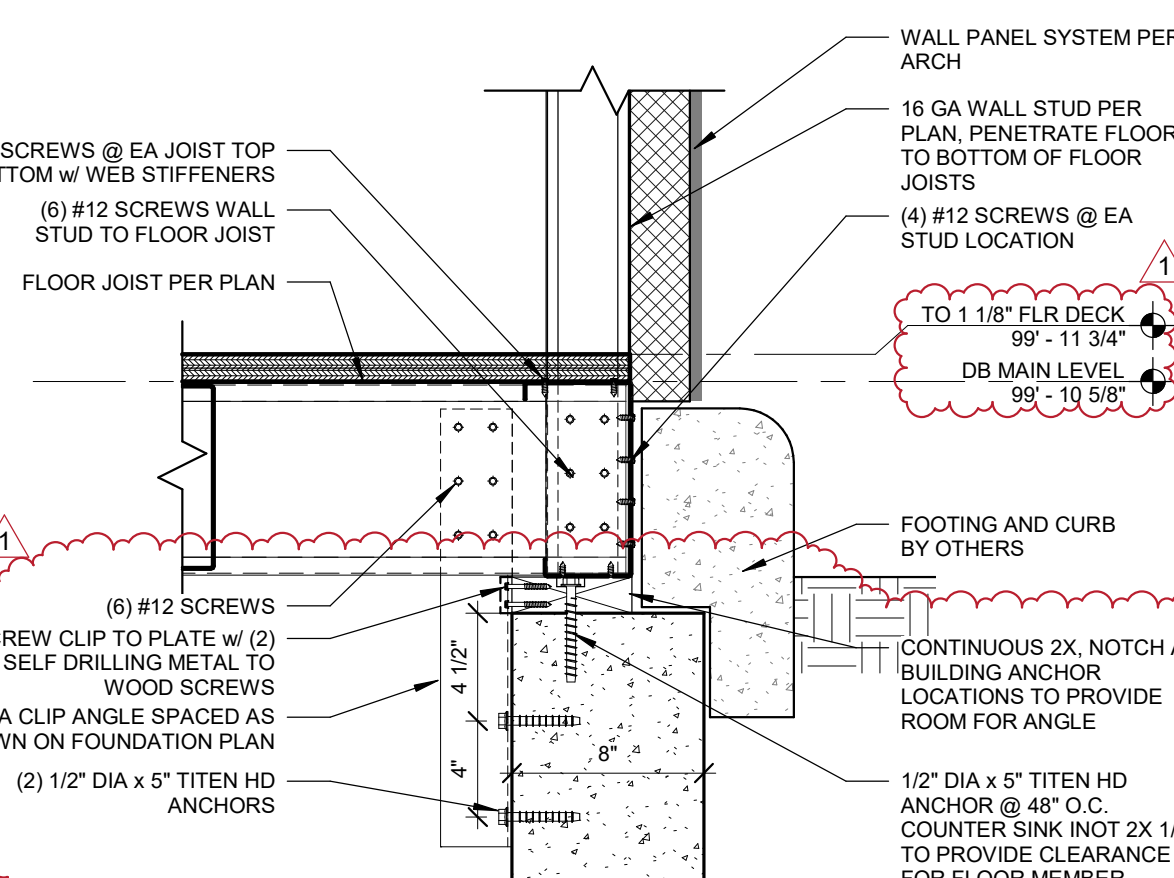
3 ROLLED ROOF ATTACHMENT TO STUDS
1 1/2" = 1'-0"



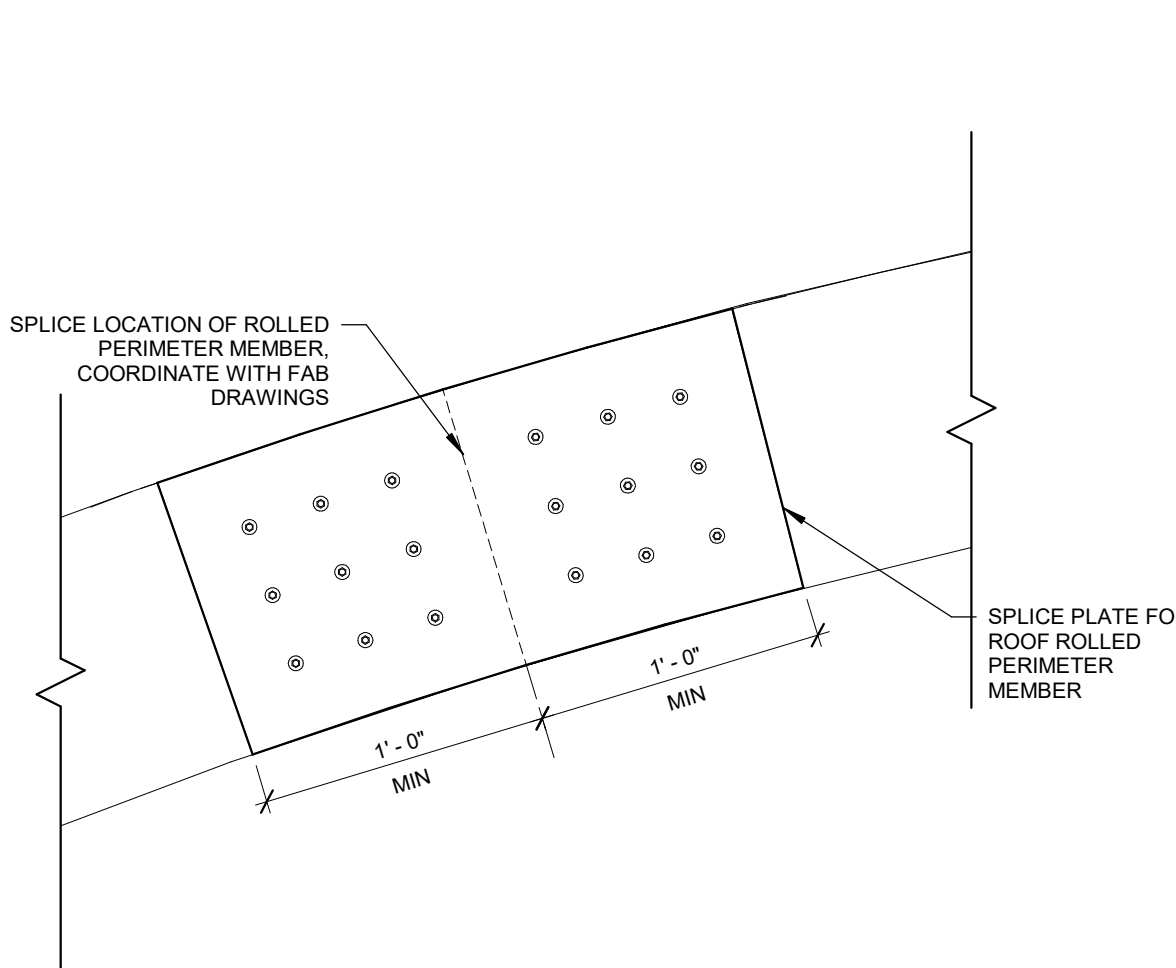
4 CORNER BUILT UP COLUMN PANEL ATTACHMENT
1 1/2" = 1'-0"



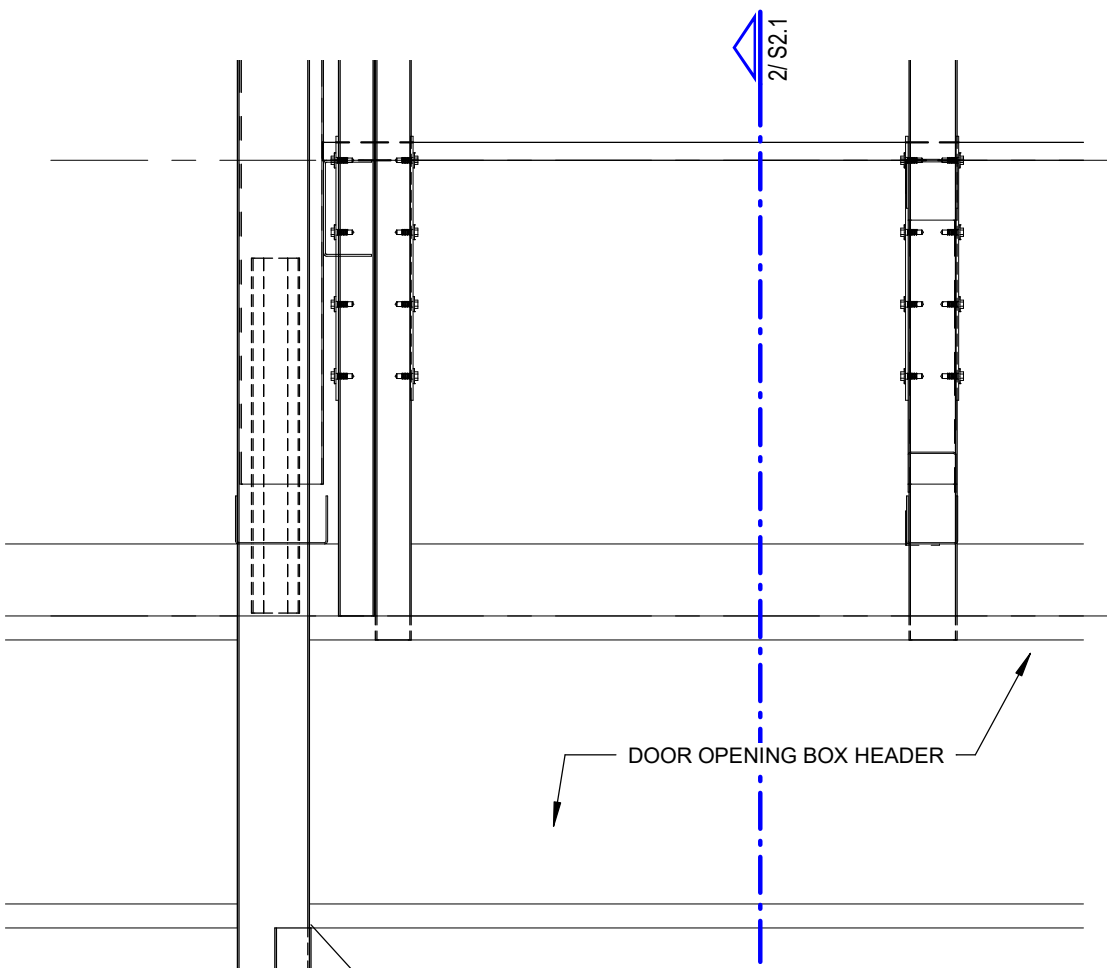
5 COLUMN BTW WINDOW PANEL ATTACHMENT
1 1/2" = 1'-0"



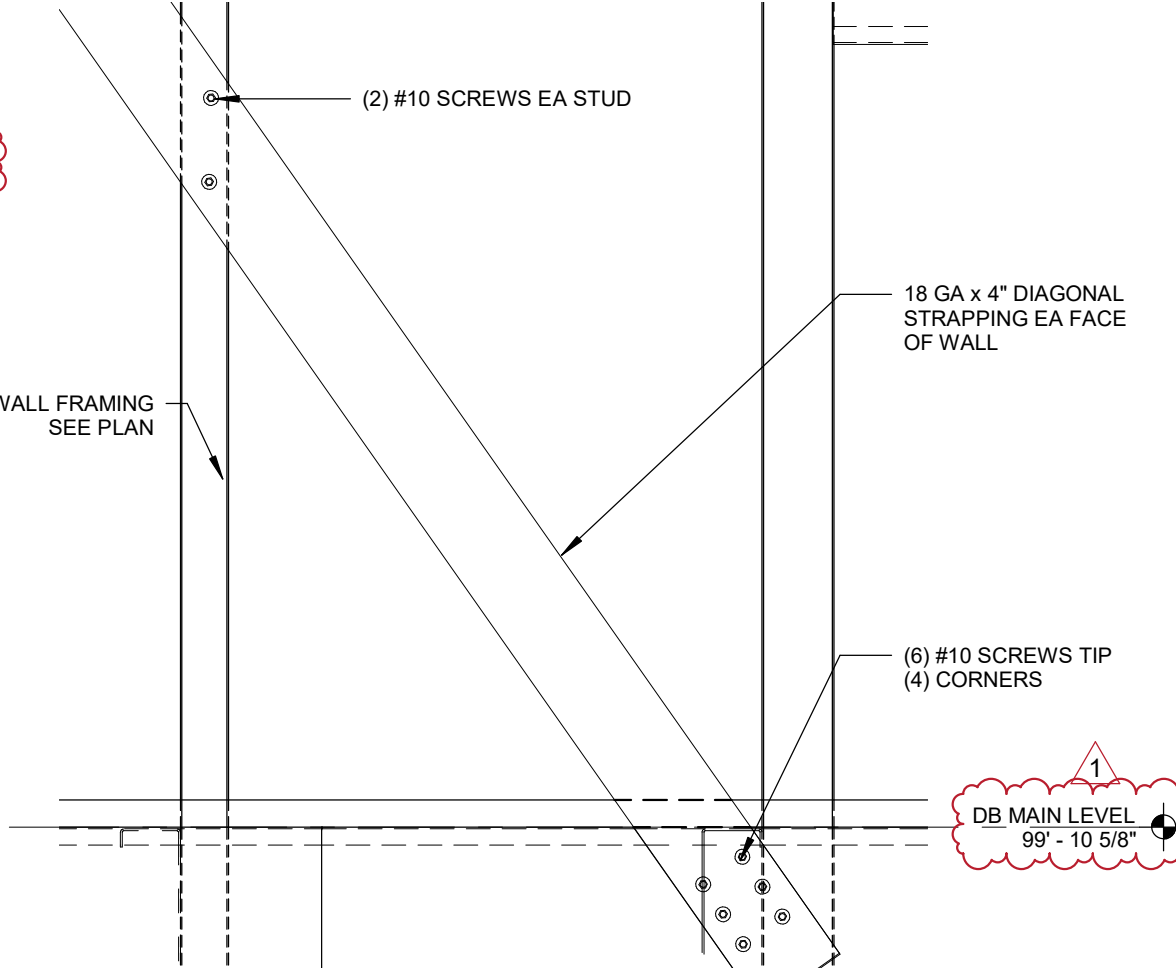
6 FLOOR ATTACHMENT TO WALL
1 1/2" = 1'-0"



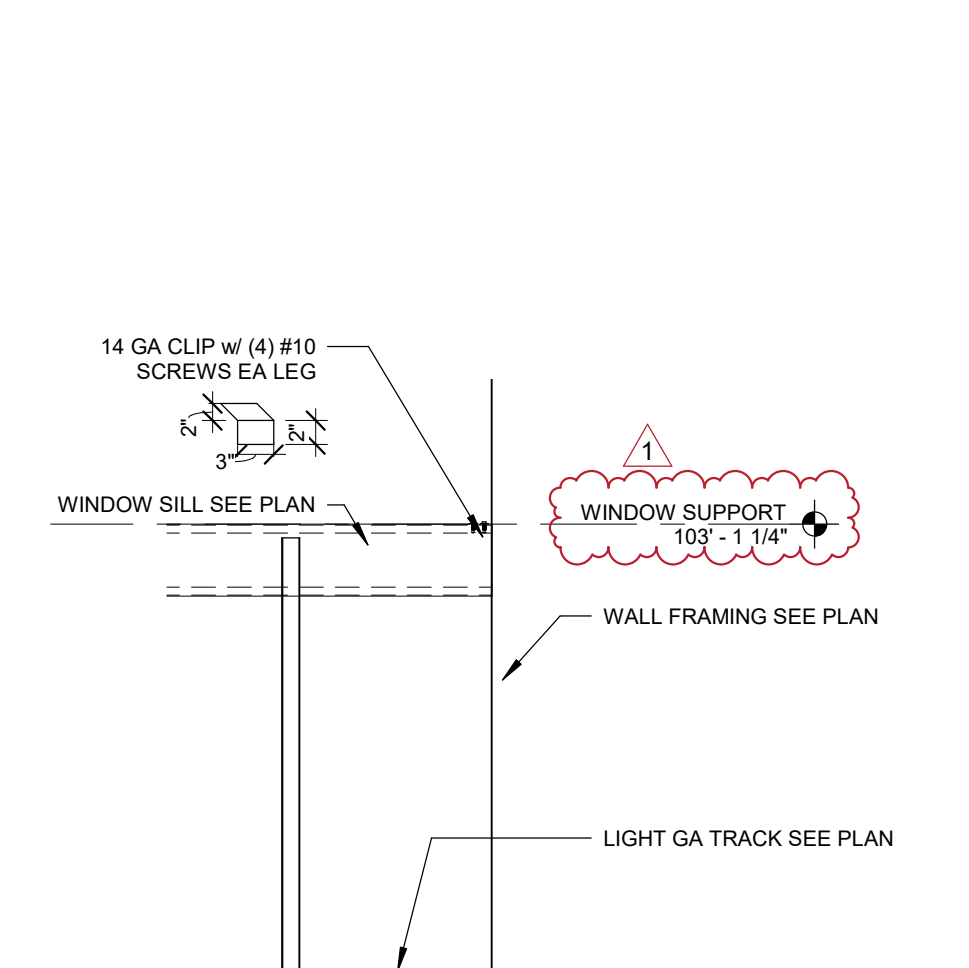
7 SPLICE DETAIL
1 1/2" = 1'-0"



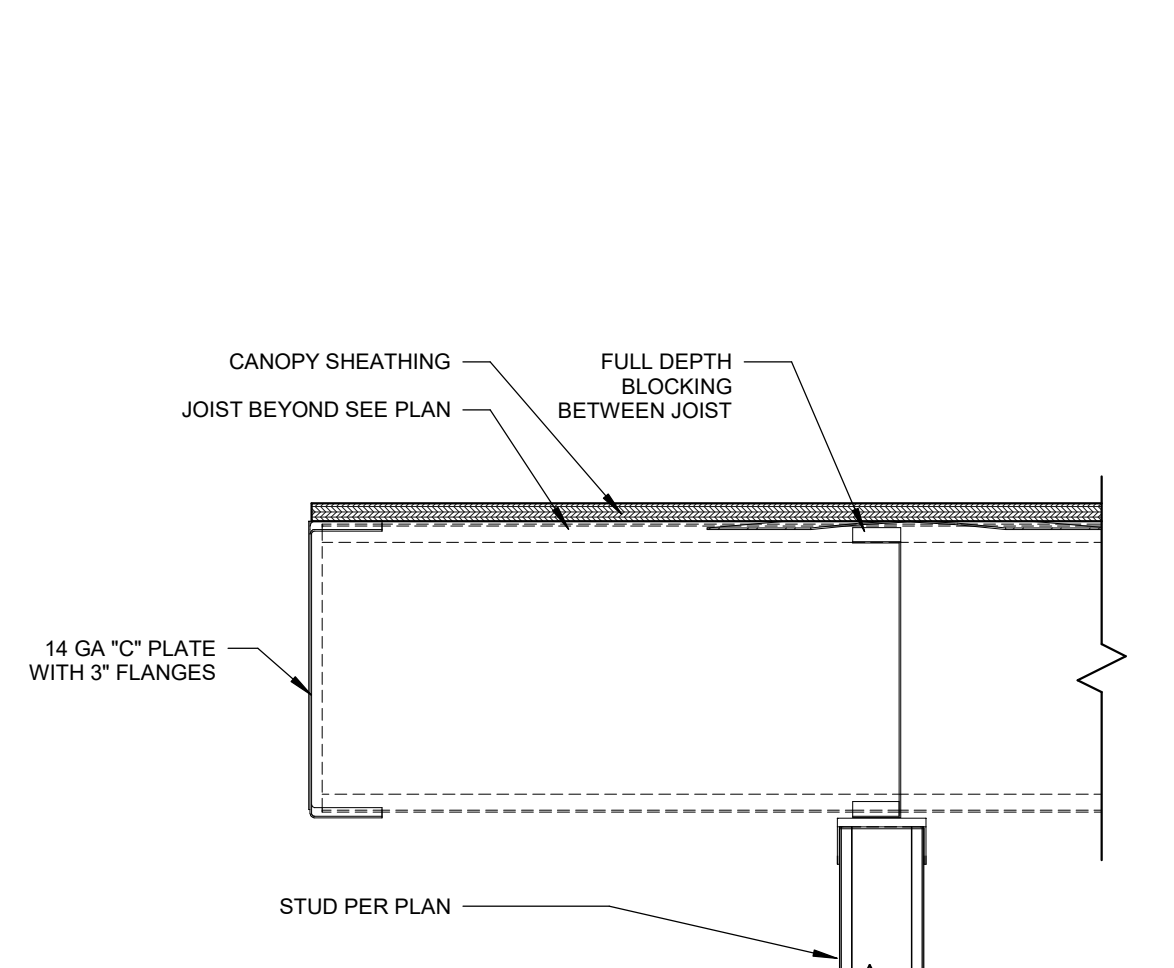
8 DETAIL AT HEADER SUPPORT
1 1/2" = 1'-0"



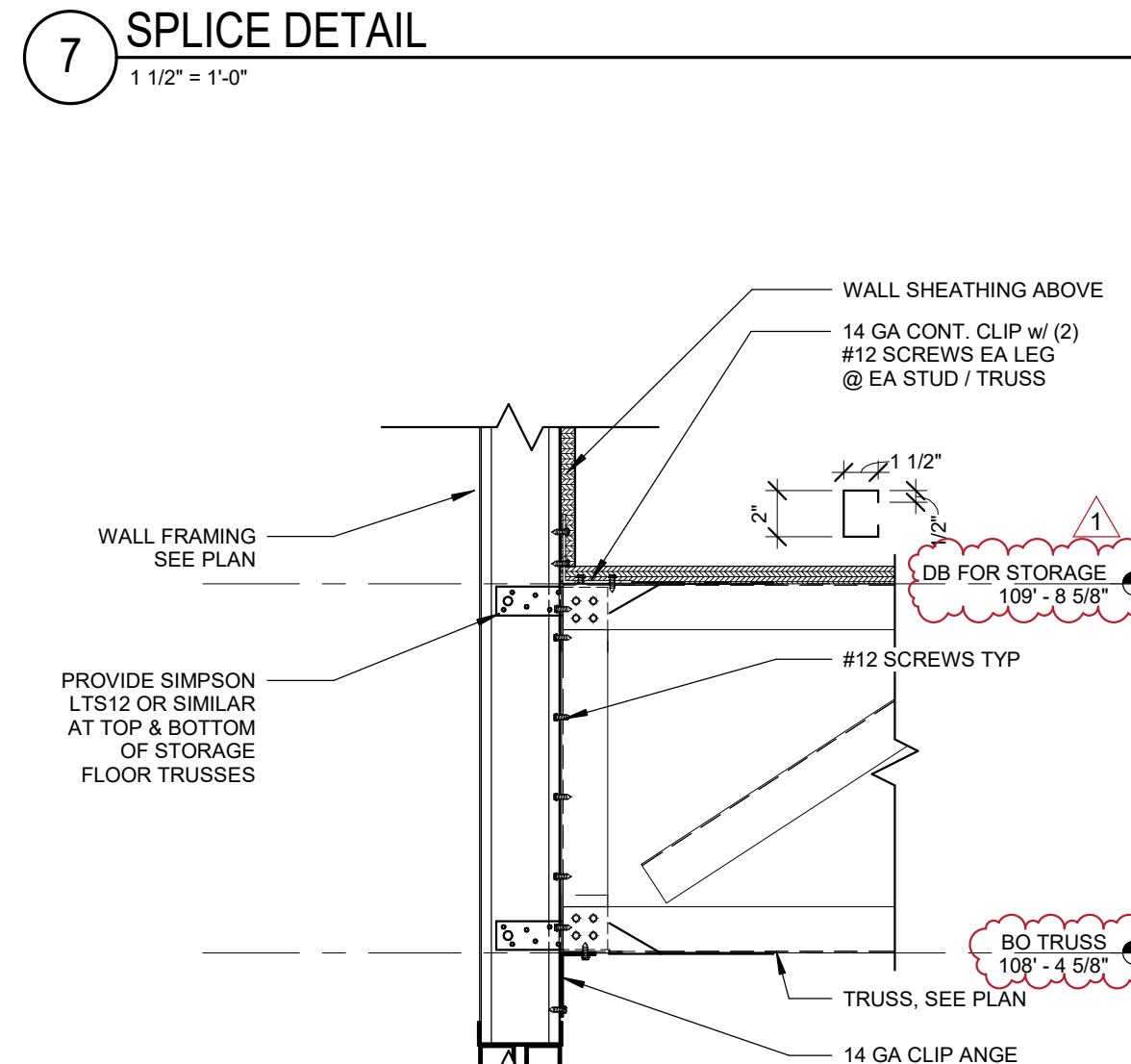
9 SECTION @ DIAGONAL STRAPPING
1 1/2" = 1'-0"



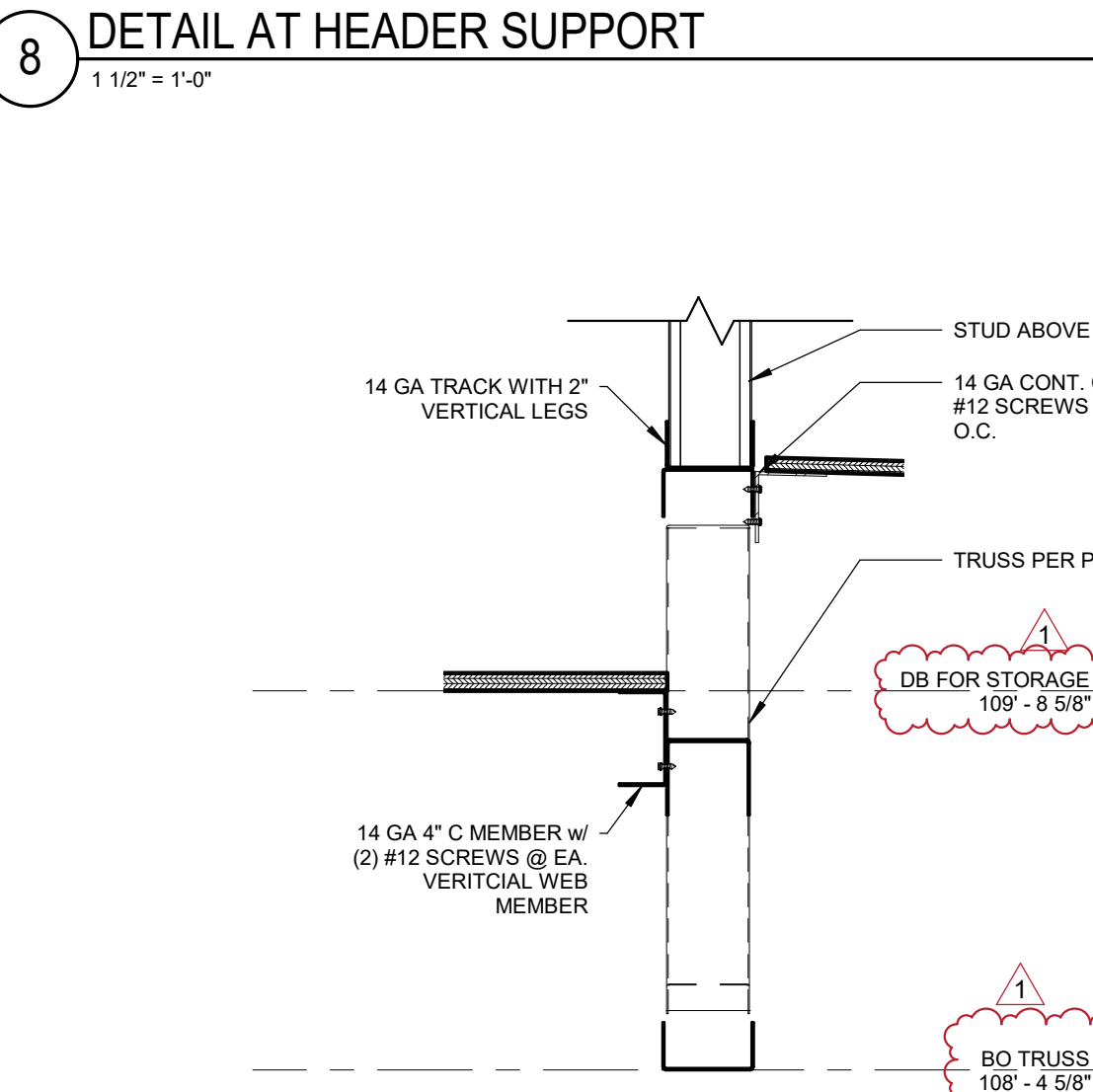
10 SECTION @ SILL TO JAMB
3/4" = 1'-0"



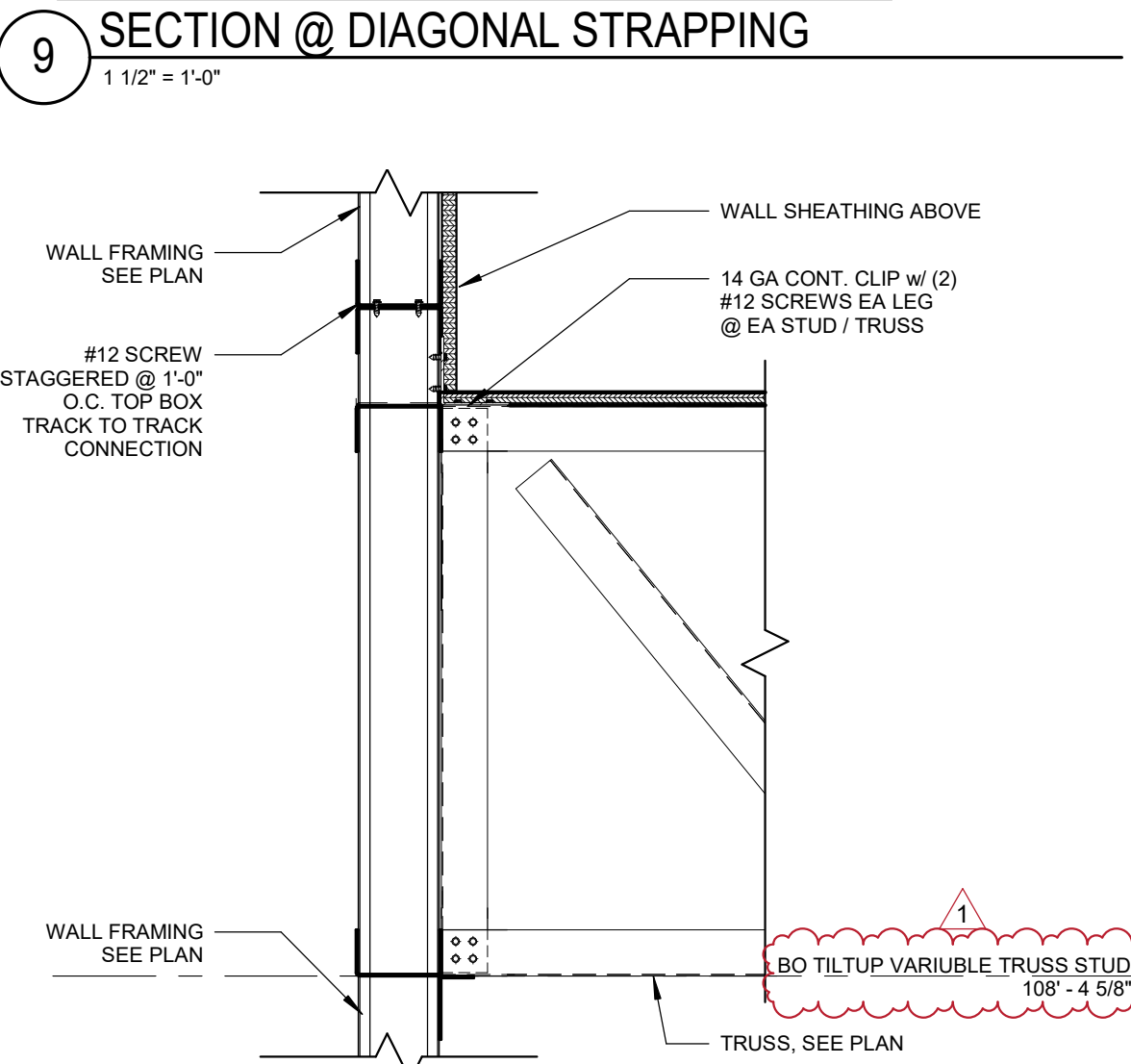
11 SECTION AT CANOPY BLOCKING
1 1/2" = 1'-0"



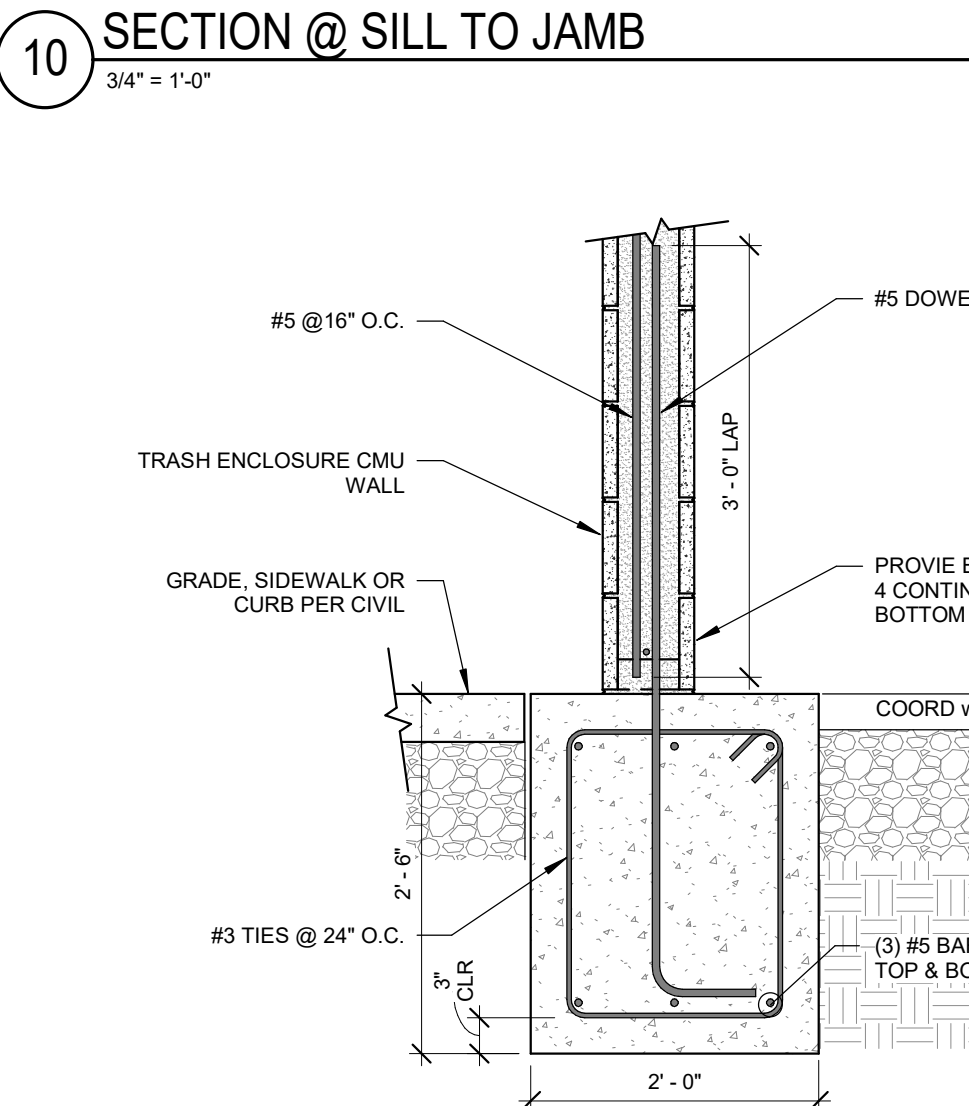
12 SECTION @ TOP BOX TO LOWER BOX CONNECTION
1 1/2" = 1'-0"



13 SECTION AT FLOOR TRANSITION TO ROOF
1 1/2" = 1'-0"

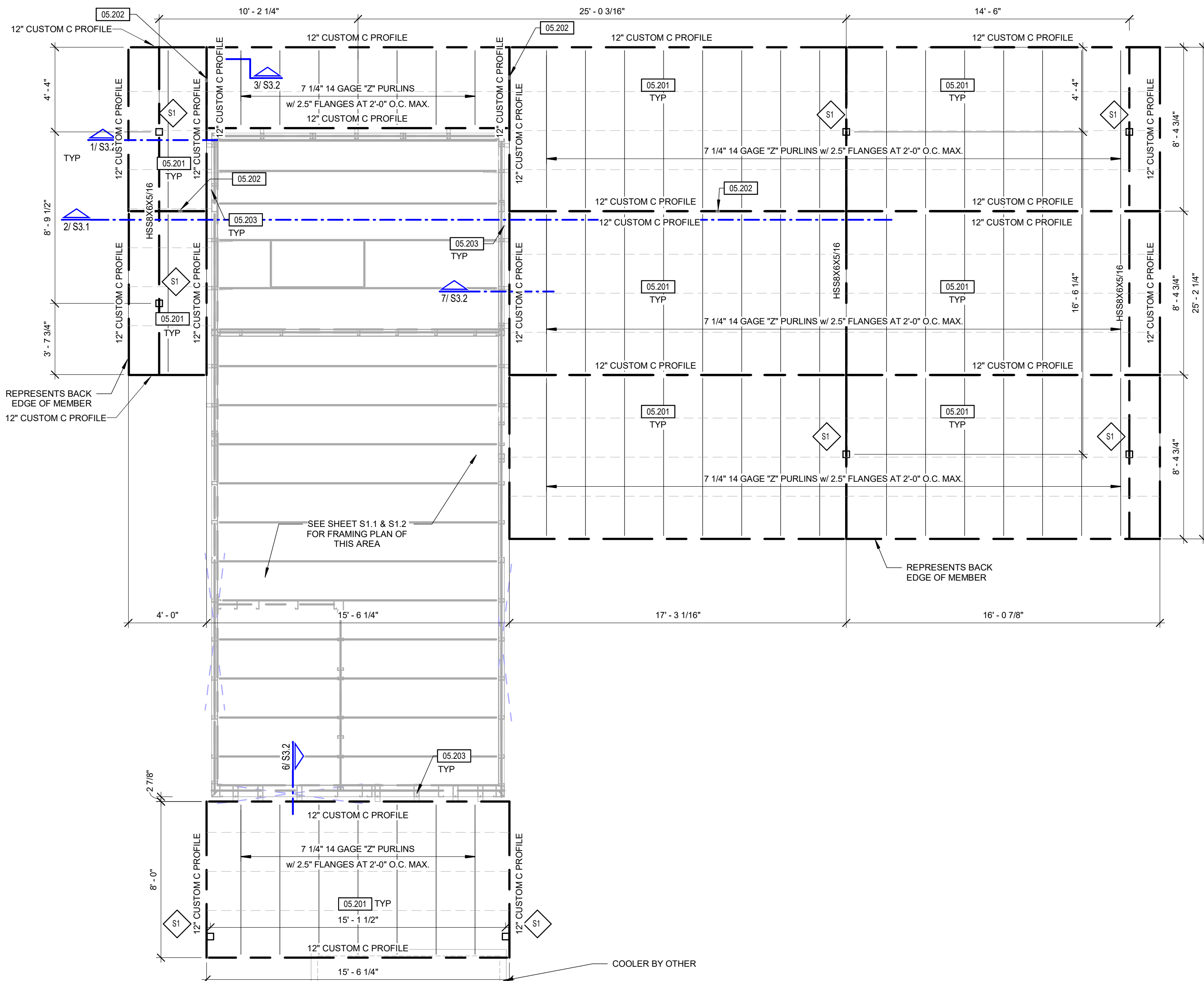


14 TYPICAL TRUSS TO WALL CONNECTION
1 1/2" = 1'-0"

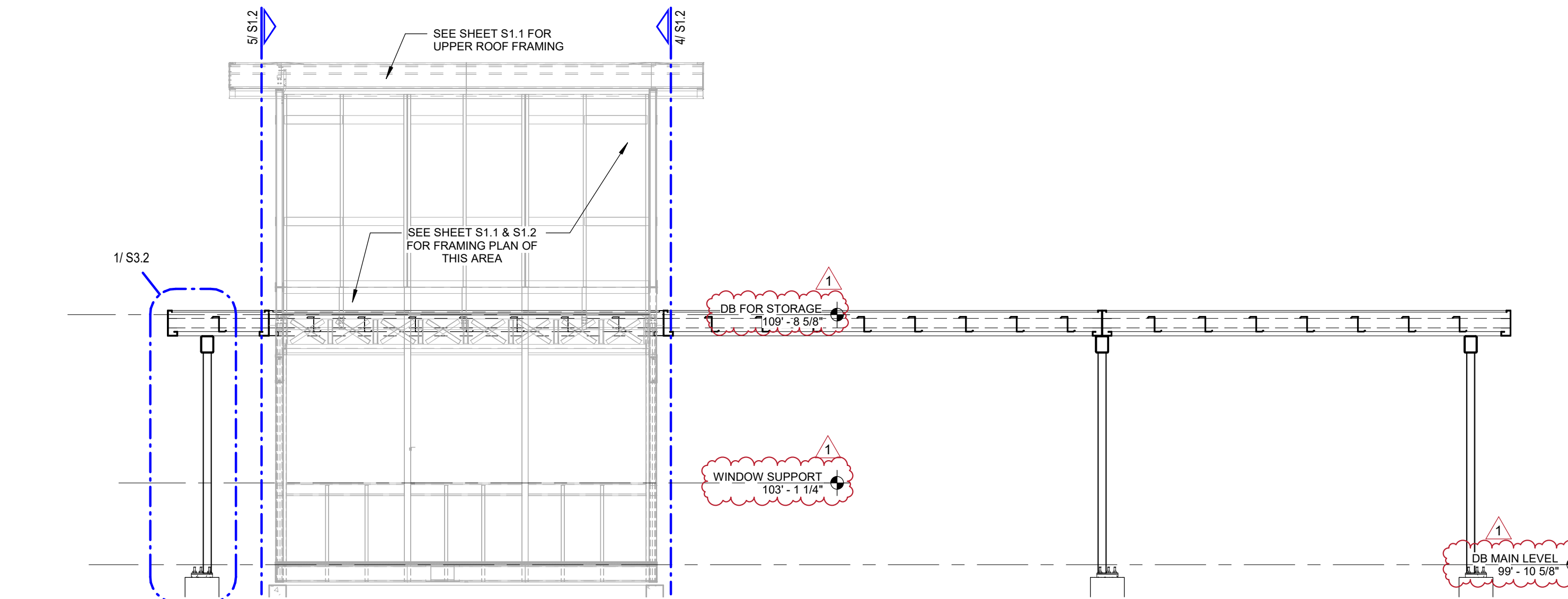


15 CMU TRASH ENCLOSURE FOUNDATION (ALT)
3/4" = 1'-0"

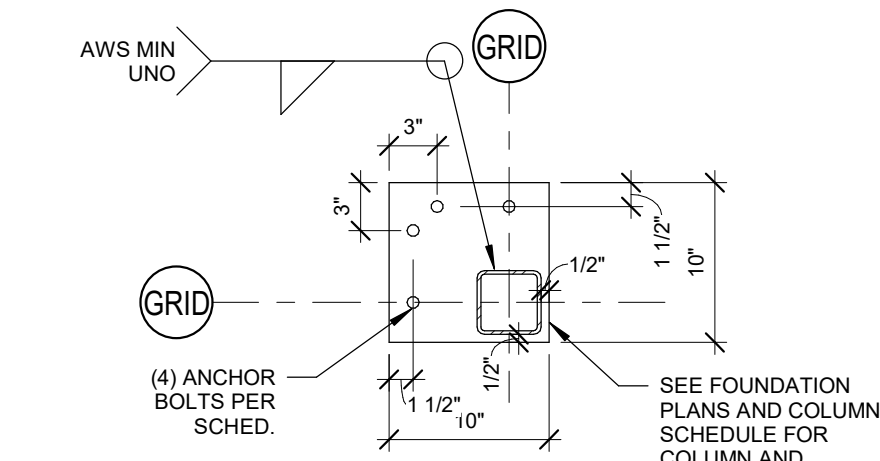




1 ROOF AND STORAGE WITH BASE CANOPY ADDITION
1/4" = 1'-0"



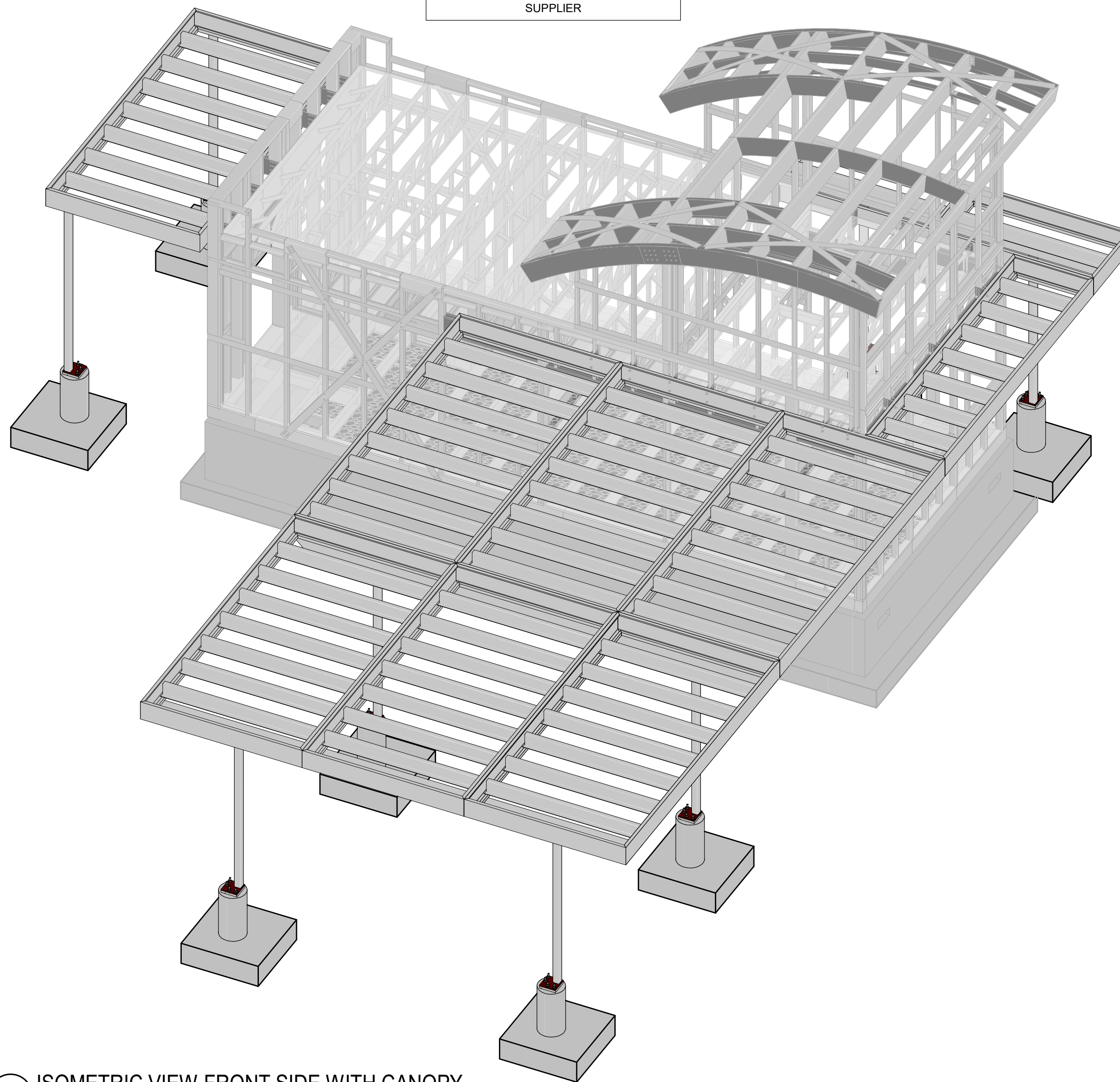
2 CROSS SECTION WITH CANOPY
1/4" = 1'-0"



CANOPY BASEPLATE

ISOMETRIC VIEWS FOR REFERENCE ONLY

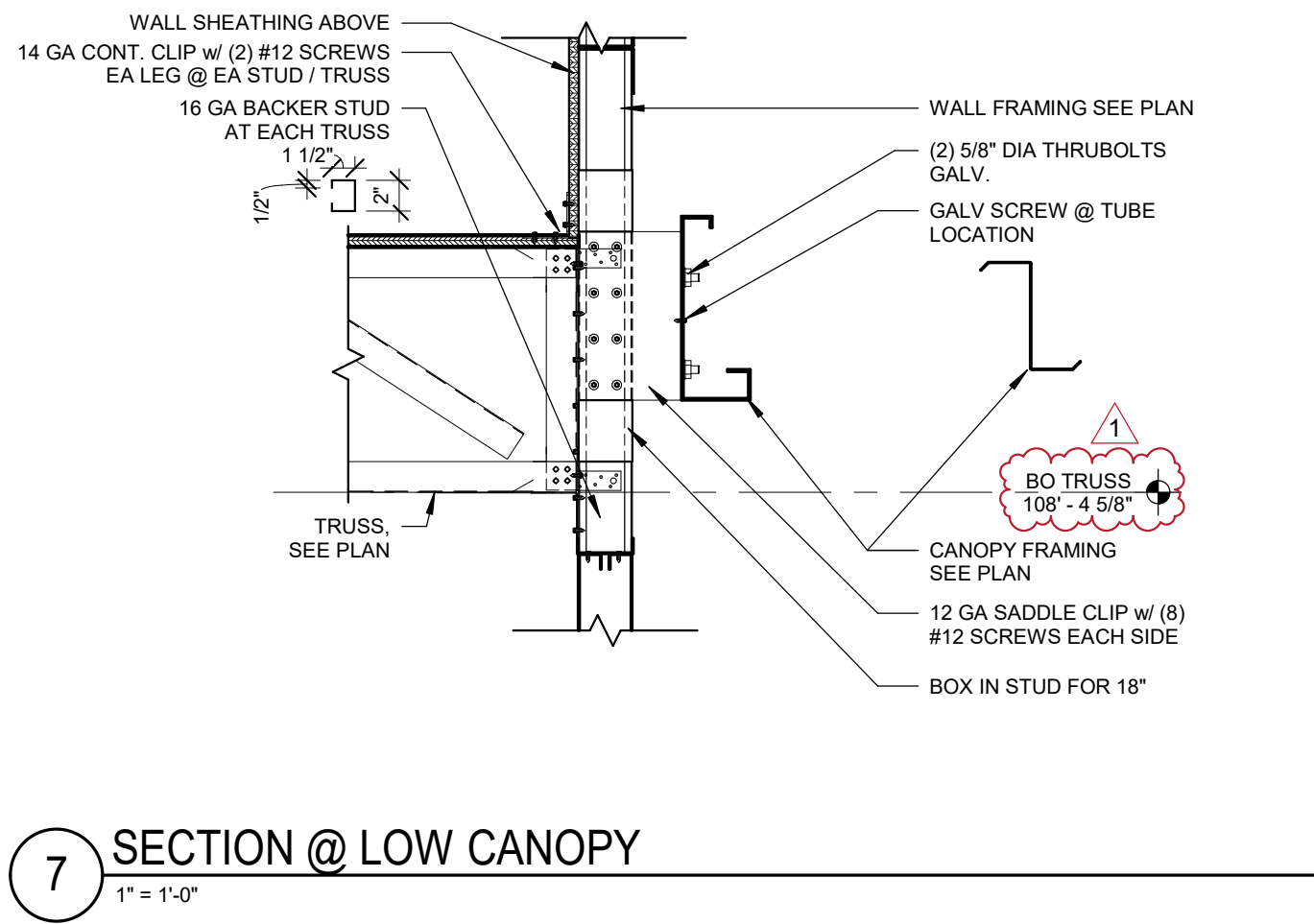
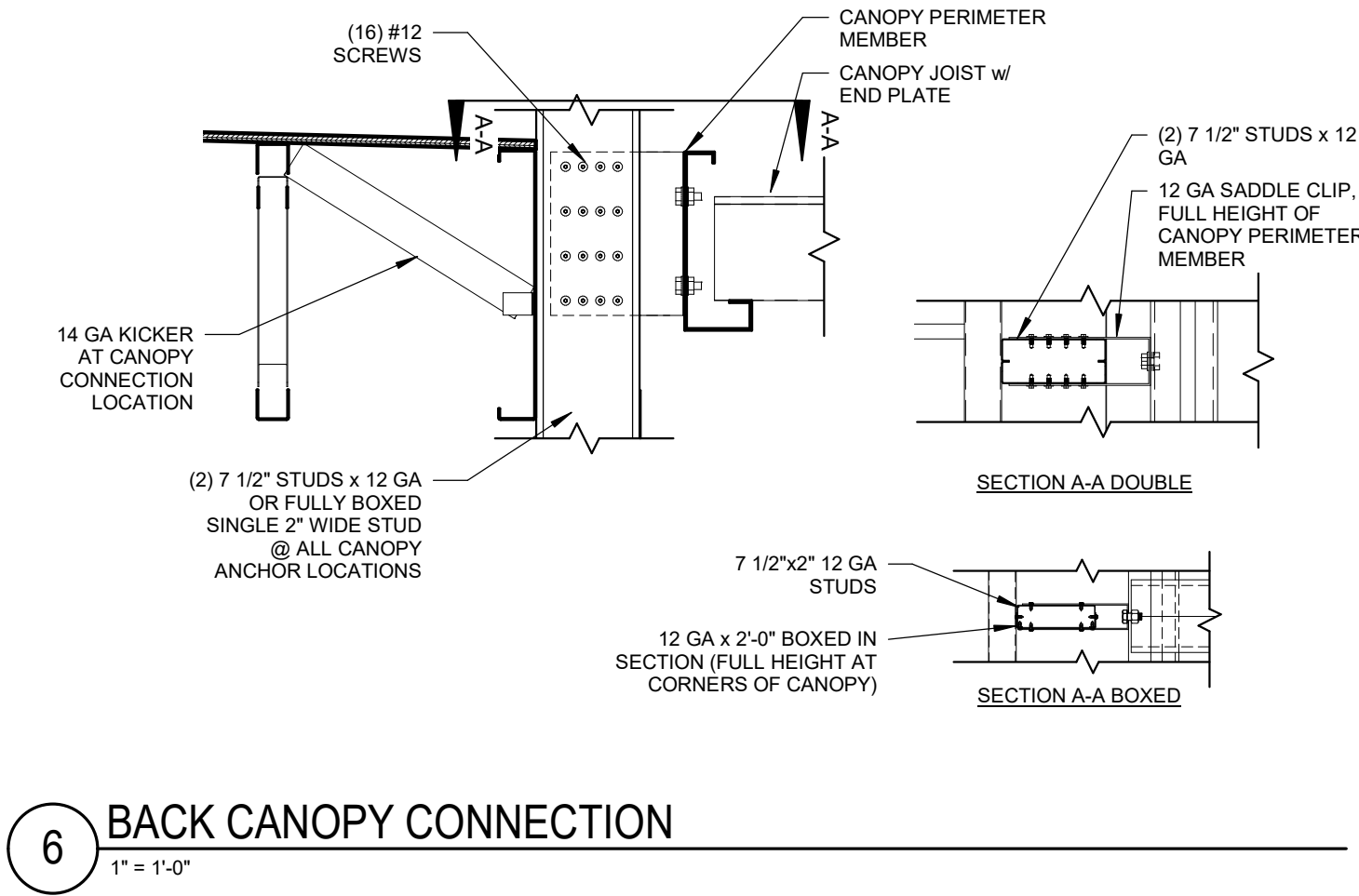
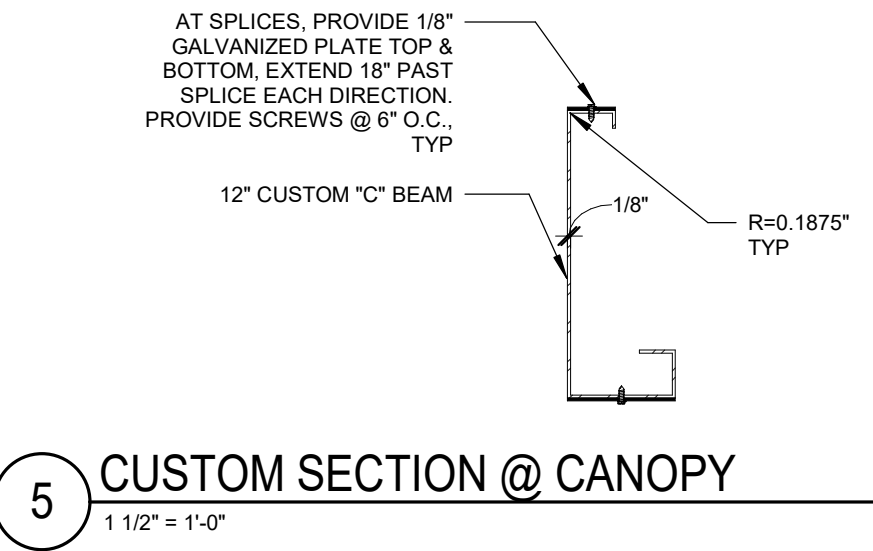
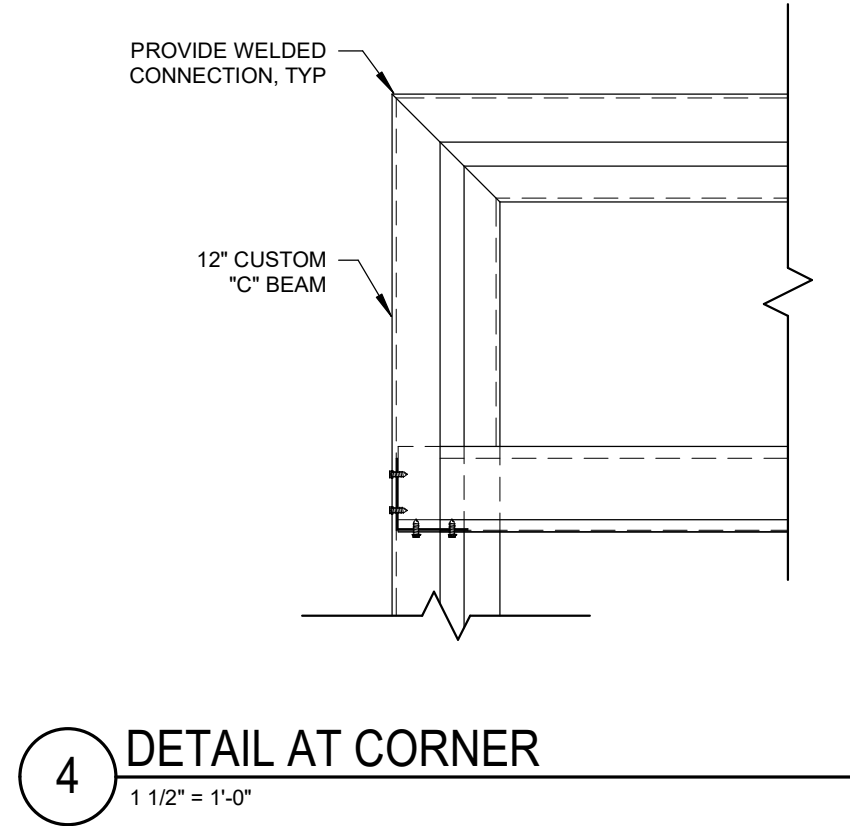
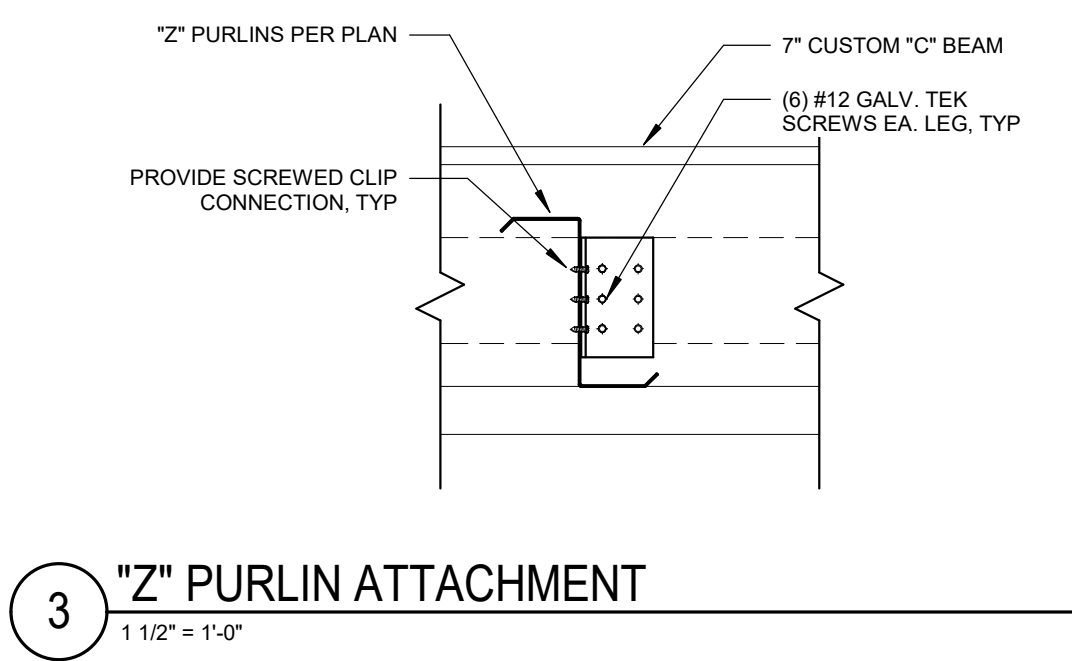
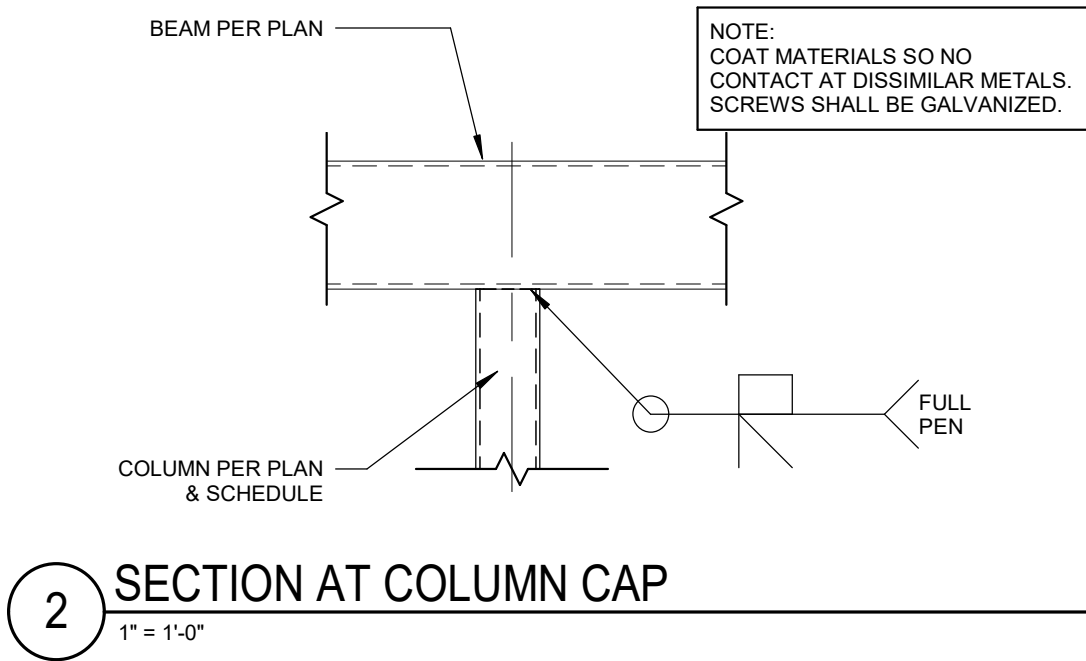
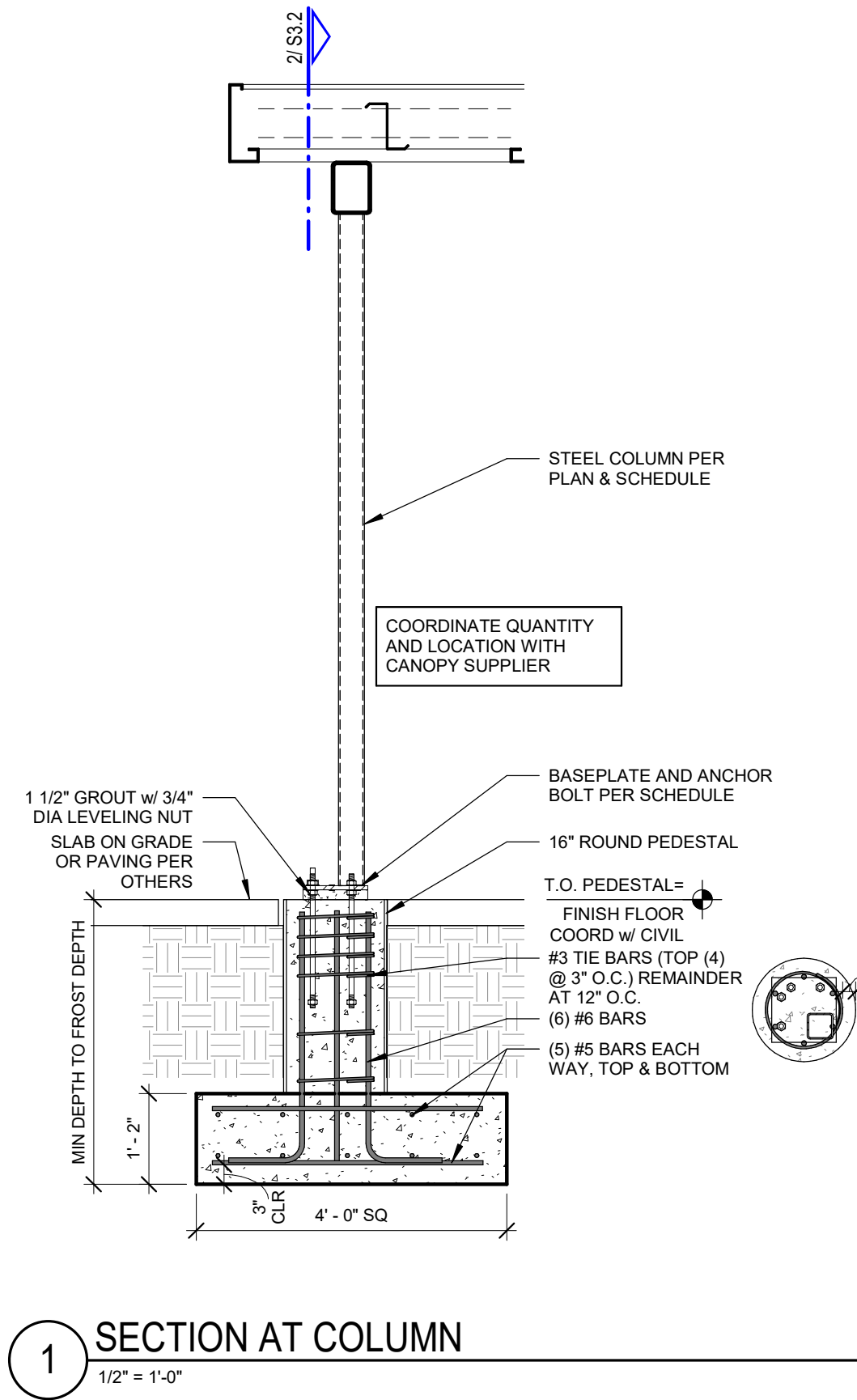
COORDINATE EXACT SIZE AND SHAPE OF CANOPY WITH OWNER AND CANOPY SUPPLIER

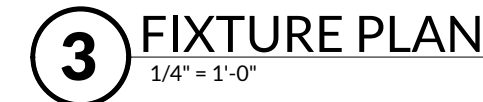
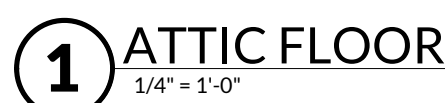


3 ISOMETRIC VIEW FRONT SIDE WITH CANOPY

KEYNOTE	DESCRIPTION
05.201	PROVIDE STRAP BRIDGING @ 24" O.C. w/ BLOCKING PIECES EACH END.
05.202	PLACE "C" PROFILE BACK TO BACK, ATTACH w/ (3) SCREWS AT 12" MAX. ON CENTER.
05.203	ANCHOR CHANNEL TO WALL w/ (4) #12 GALV. TEK SCREWS @ EACH STUD.

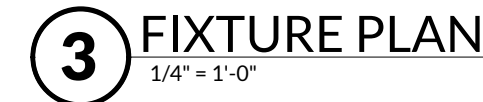
TYPE	COLUMN SIZE	BASE PLATE TYPE & SIZE	ANCHOR BOLT SIZE	NOTES
MARK	S1	HSS4X4X1/4	5/8"x10" SQ	(4) 3/4" DIA w/ 18" EMBEDMENT





1. CONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF THE LANDLORDS CRITERIA PRIOR TO CONSTRUCTION. FAILURE TO ACCOUNT HIMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE HIM FROM ANY RESPONSIBILITY.

2. CONTRACTOR SHALL THOROUGHLY VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING AND CONSTRUCTION. ALL DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THESE DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE ARCHITECT.



EGRESS LEGEND

PATH OF EGRESS TRAVELED: - - - - ->

SPACE OCCUPANCY:

ROOM NAME
101

SF
468

FUNCTION
KITCHEN

100 OCC.

ROOM NAME AND NUMBER

ROOM AREA, SQUARE FOOTAGE

USE GROUP PER IBC SECTION 3

OCCUPANCY: AREA OF SPACE/AREA ALLOWANCES PER IBC TABLE 1004.1.2

DOOR EXIT CAPACITY:

DOOR EXIT
000 OCC.

00" REQ.

00" PROVIDED

EXIT TYPE (DOOR, STAIR, ETC)

NUMBER OF OCCUPANTS USING THE EXIT.

EGRESS WIDTH REQUIRED FOR NUMBER OF OCCUPANTS USING THE EXIT PER IBC SECTION 1005.

EGRESS WIDTH PROVIDED.

EGRESS LOADING INFORMATION

OCCUPANCY LOADING CALCULATIONS
PER IBC 2018: TABLE 1004.1.2

KITCHENS: 200 S.F. PER OCCUPANT
STORAGE: 300 S.F. PER OCCUPANT

#	ROOM	OCCUPANCY	CALCULATION	OCCUPANTS
101	SERVICE AREA	KITCHEN	468 SF/200 SF	3
104	COOLER	STORAGE	124 SF/300 SF	1
201	MECH. ACCESS ROOM	STORAGE	131 SF/300 SF	1

EXIT CAPACITY:
EGRESS WIDTH REQUIRED: 5 OCCUPANTS X 0.2" PER OCCUPANT REQUIRED = 1.0"
EGRESS WIDTH PROVIDED: 36"
EGRESS WIDTH OF 0.2" PER OCCUPANT USED FOR DOORS PER IBC TABLE 1005.

NUMBER OF EXITS REQUIRED:
(1) EXIT REQUIRED FOR PER STORY FOR LESS THAN 49 OCCUPANTS PER IBC TABLE 1006.2.1.
(1) EXIT PROVIDED.

MAXIMUM TRAVEL DISTANCE:
200'-0" PER IBC TABLE 1017.2
ACTUAL MAX TRAVEL DISTANCE TO EXIT: 32'-0"

DEAD END CORRIDOR:
20'-0" MAX LENGTH OF DEAD END CORRIDOR PER IBC SECTION 1018

RESTROOM LOADING

OCCUPANCY:
5 OCCUPANTS

RESTROOM FIXTURES REQUIRED/PROVIDED - USE GROUP: BUSINESS

TOILET COUNT:

- = 1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50

LAVATORY COUNT:

- = 1 PER 40 FOR THE FIRST 80 AND 1 PER 80 FOR THE REMAINDER EXCEEDING 80

TUB/ SHOWERS:

- = NOT REQUIRED

DRINKING FOUNTAINS:

- = 1 PER 100

OTHER:

- = 1 SERVICE SINK

PLUMBING FIXTURE COUNT PER IBC TABLE 2902.1

TOILET COUNT:

- = 1 WATER CLOSET REQUIRED / 25 WATER CLOSETS PROVIDED
- = 1 UNISEX WATER CLOSET PROVIDED

LAVATORY COUNT:

- = 1 REQUIRED / 40 SINKS PROVIDED

DRINKING FOUNTAIN COUNT:

- = 1 REQUIRED / 100 DRINKING FOUNTAINS PROVIDED
- = 1 REQUIRED WATER WILL BE PROVIDED FOR FREE UPON REQUEST.

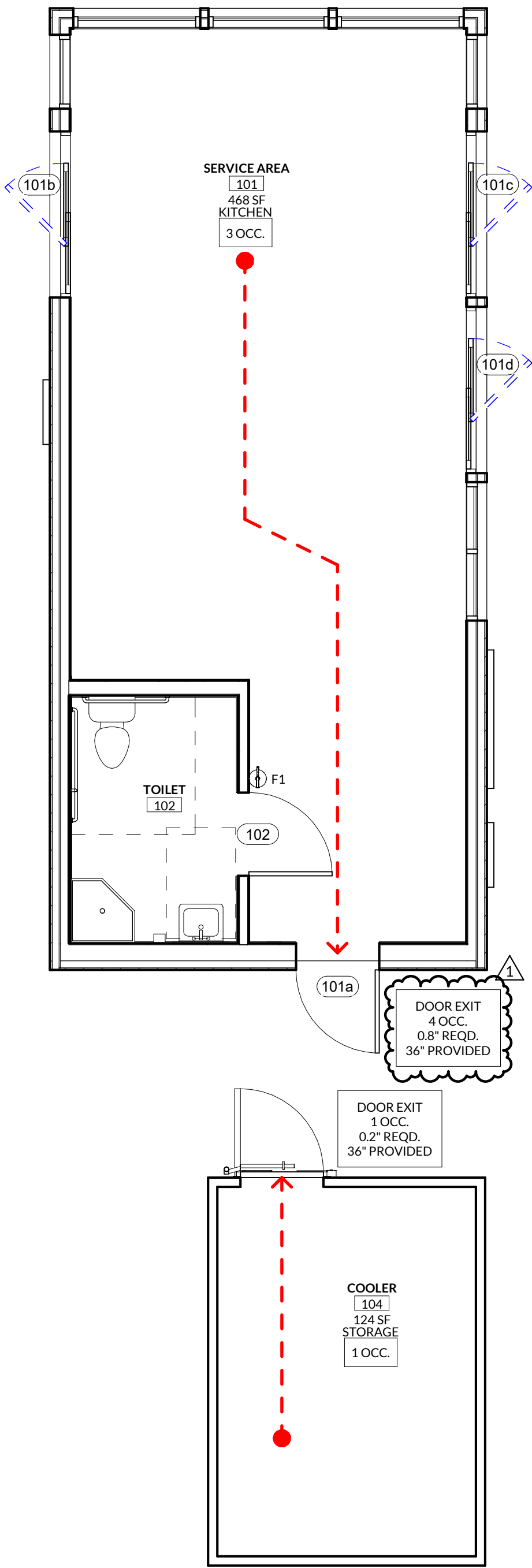
SERVICE SINK COUNT:

- = 1 REQUIRED / 1 PROVIDED

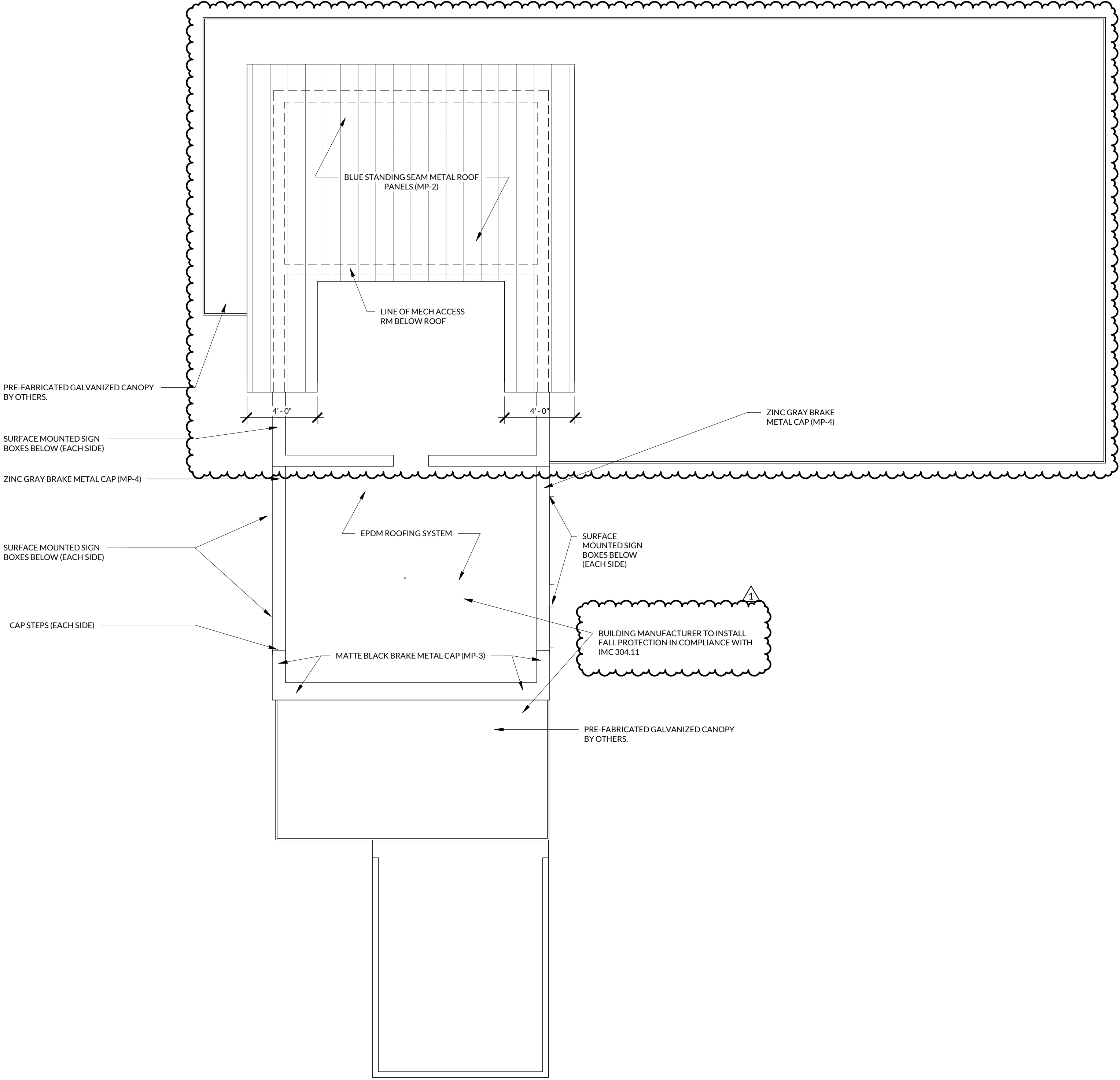
FIRE EXTINGUISHER NOTES

F1 10 LBS, ABC FIRE EXTINGUISHER ON WALL MOUNTED BRACKET. MOUNT HANDLE @ 4'-0".

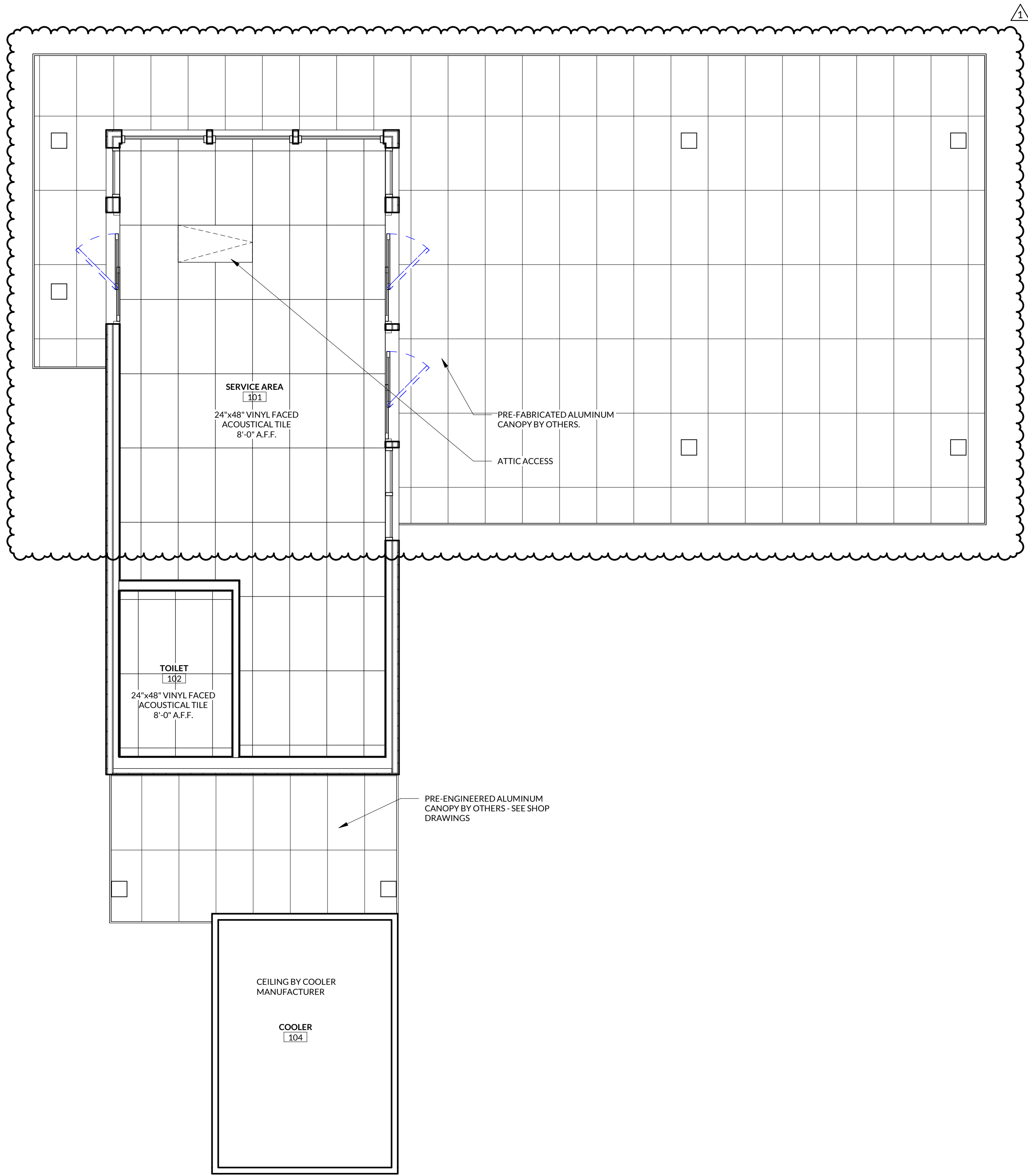
75'-0" RADIUS FROM FIRE EXTINGUISHER @ F1 (NOT SHOWN, ENCOMPASSES ENTIRE BUILDING)



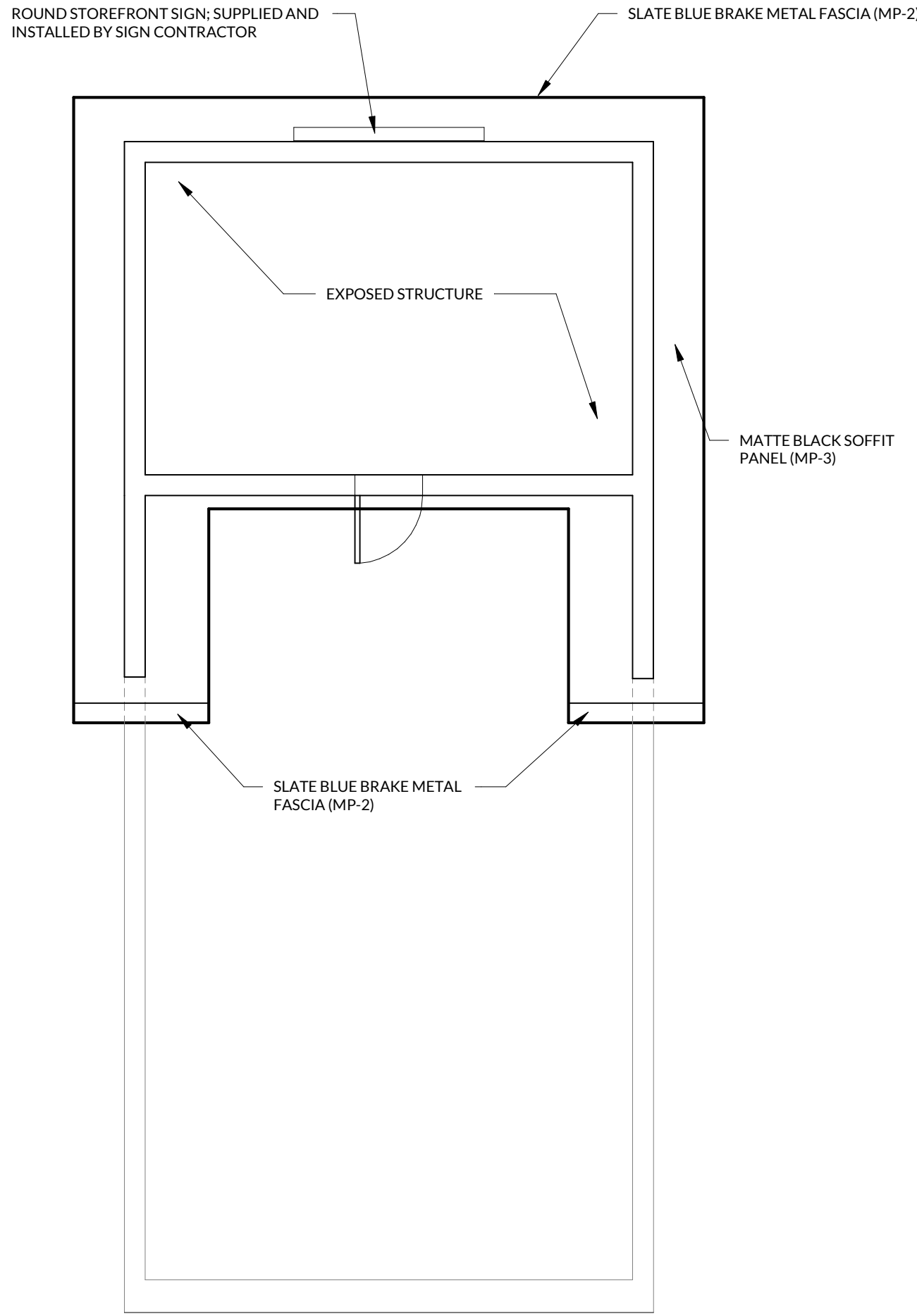
1 EGRESS PLAN
1/4" = 1'-0"



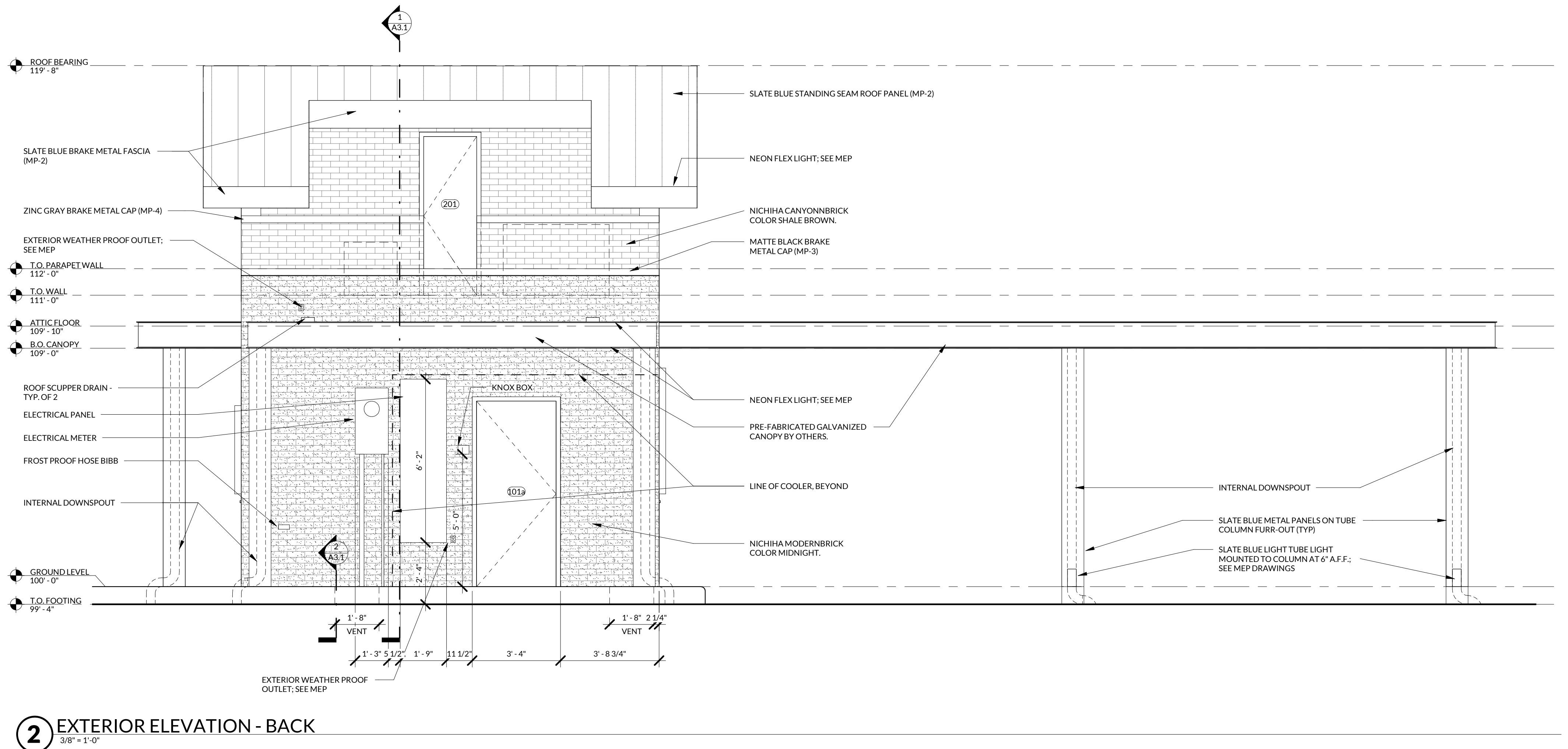
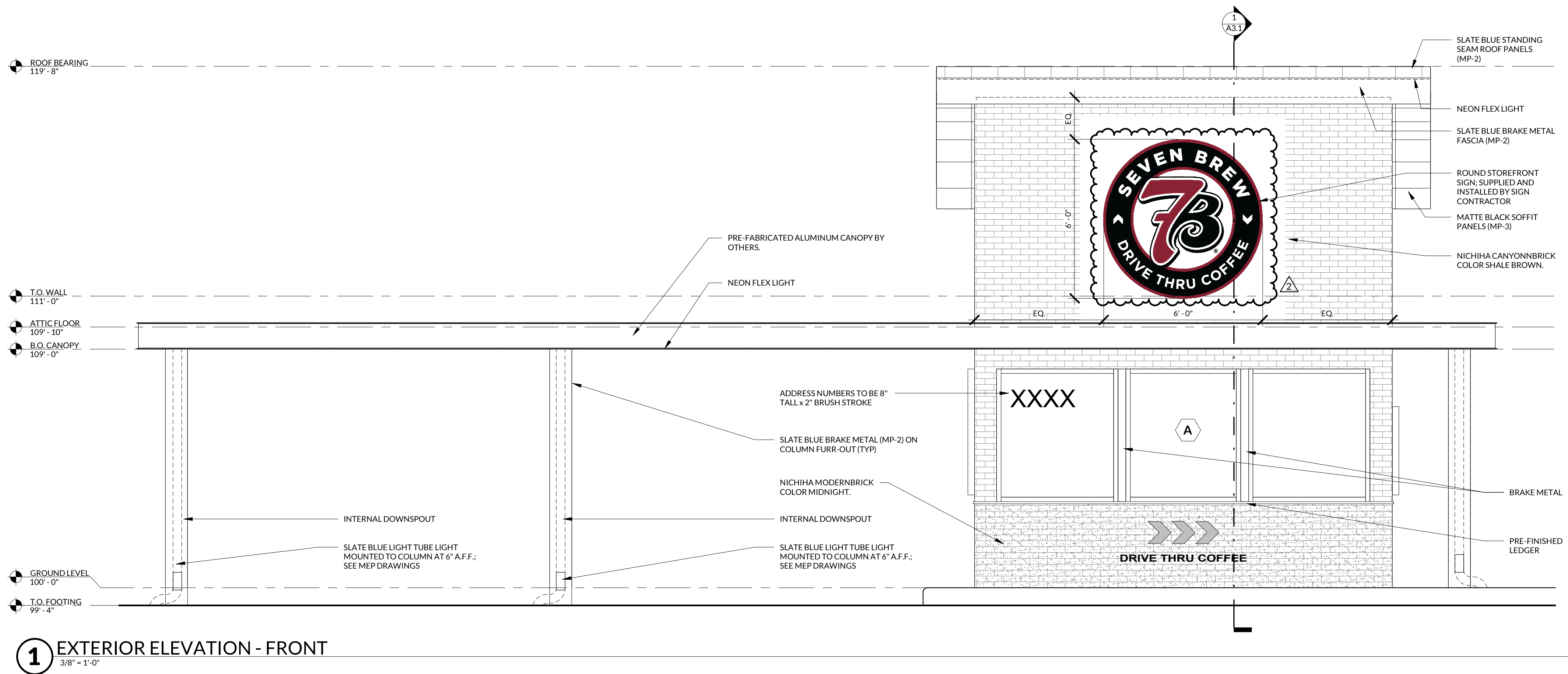
2 ROOF PLAN
1/4" = 1'-0"



1 RCP - GROUND LEVEL
1/4" = 1'-0"

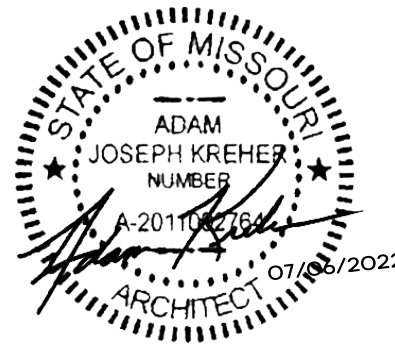


2 RCP - ATTIC FLOOR
1/4" = 1'-0"



7 BREW COFFEE
LEE'S SUMMIT, MO

143 ONE DOUGLAS ST.
LEE'S SUMMIT, MO 64086



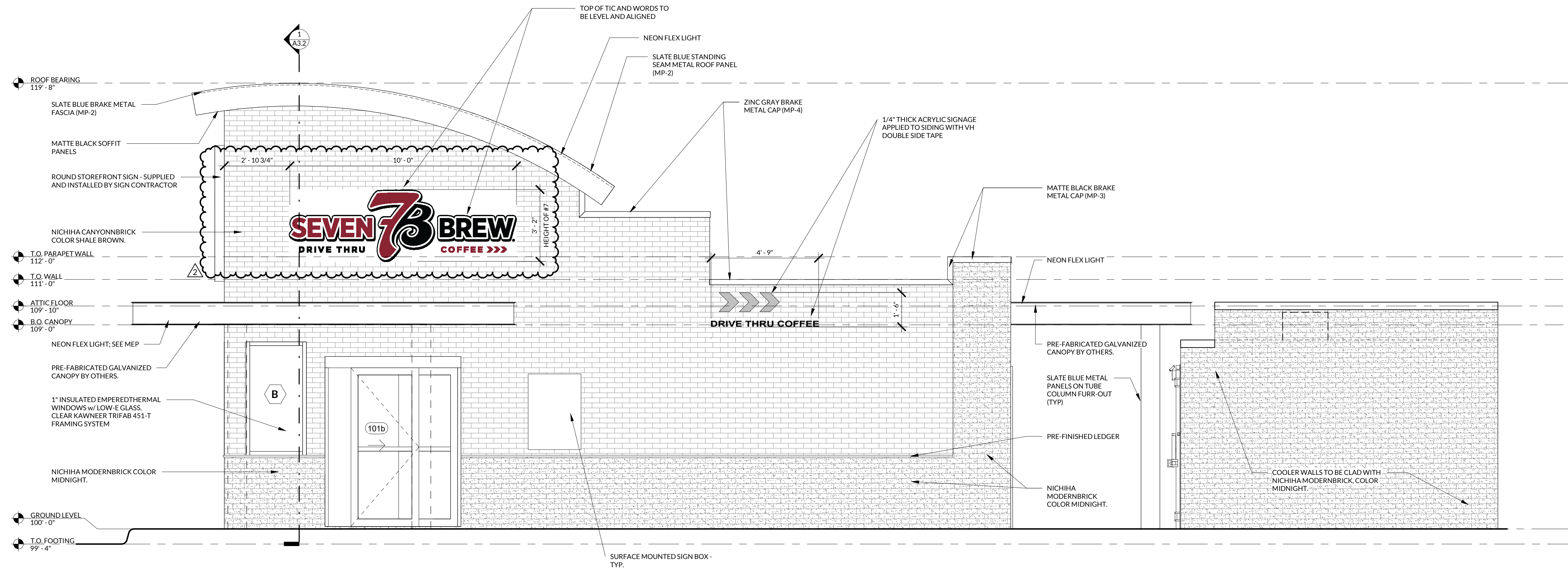
ARCHITECT OF RECORD:
NAME: ADAM KREHER
LICENSE NO. 2011002764

PROJECT NUMBER:
22033 7BLS

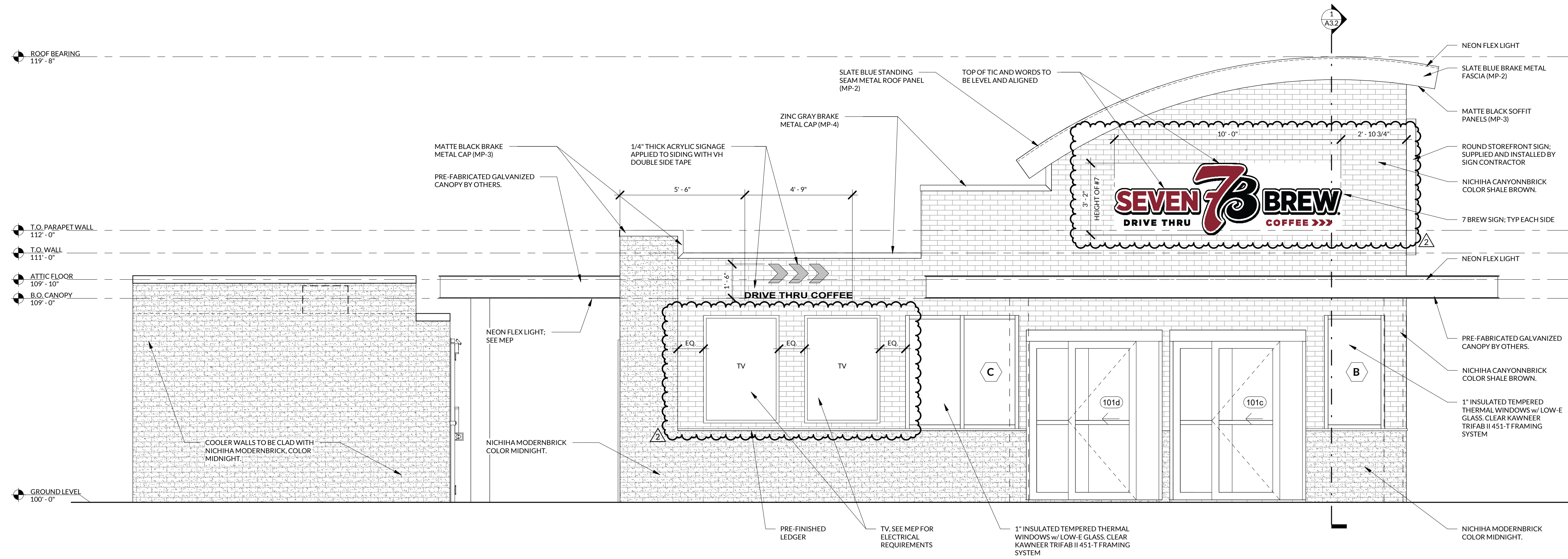
REVISION: ADD 001 6/17/22
 ADD 002 7/5/22

A2.1

EXTERIOR
ELEVATIONS
DATE: APRIL 22, 2022



1 EXTERIOR ELEVATION - RIGHT SIDE
3/8" = 1'-0"



2 EXTERIOR ELEVATION - LEFT SIDE
3/8" = 1'-0"

7 BREW COFFEE
LEE'S SUMMIT, MO

143 ONE DOUGLAS ST.
LEE'S SUMMIT, MO 64086



ARCHITECT OF RECORD:
NAME: ADAM KREHER
LICENSE NO. 2011002764

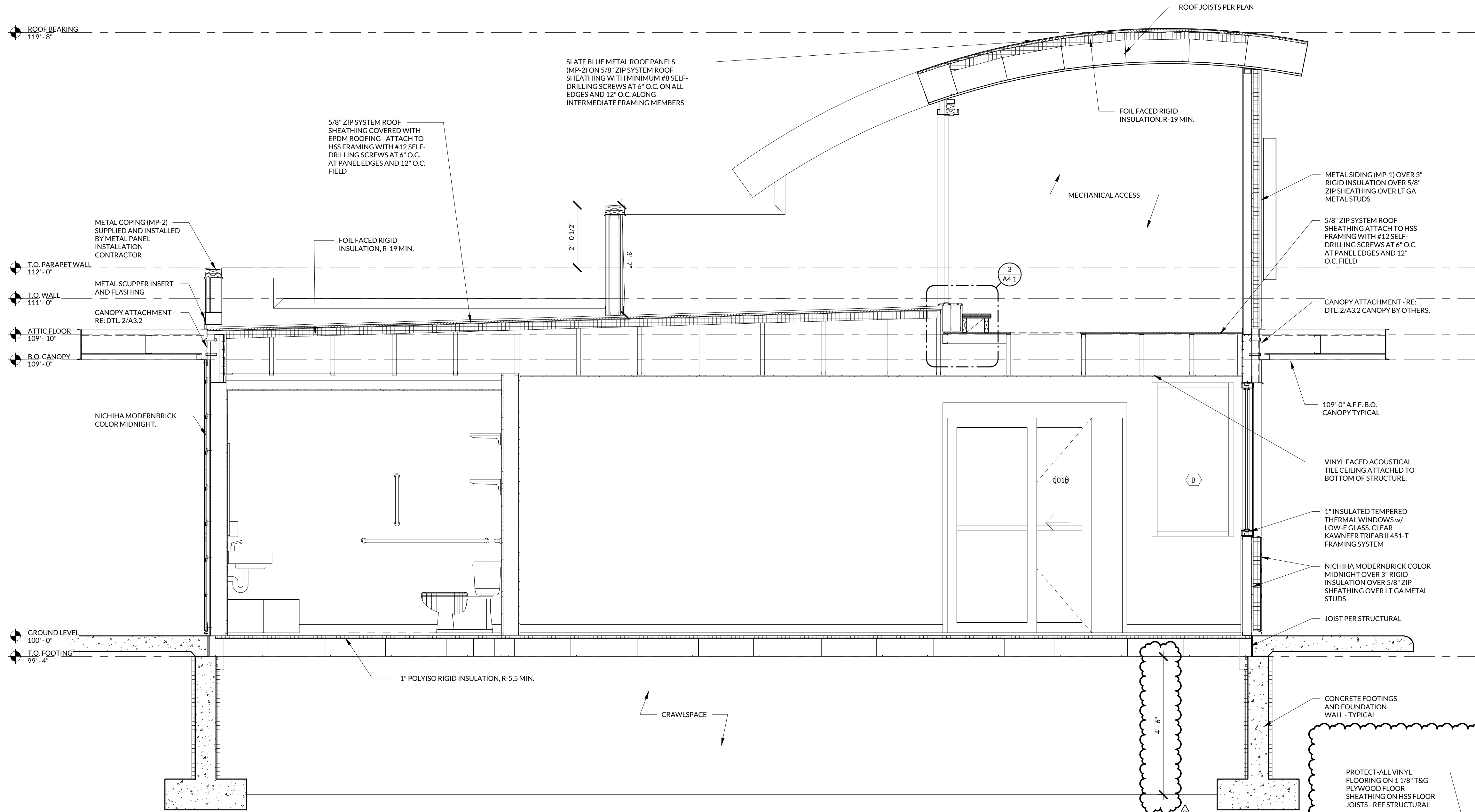
PROJECT NUMBER:
22033 7BLS

REVISION:
ADD 001 6/17/22
ADD 002 7/5/22

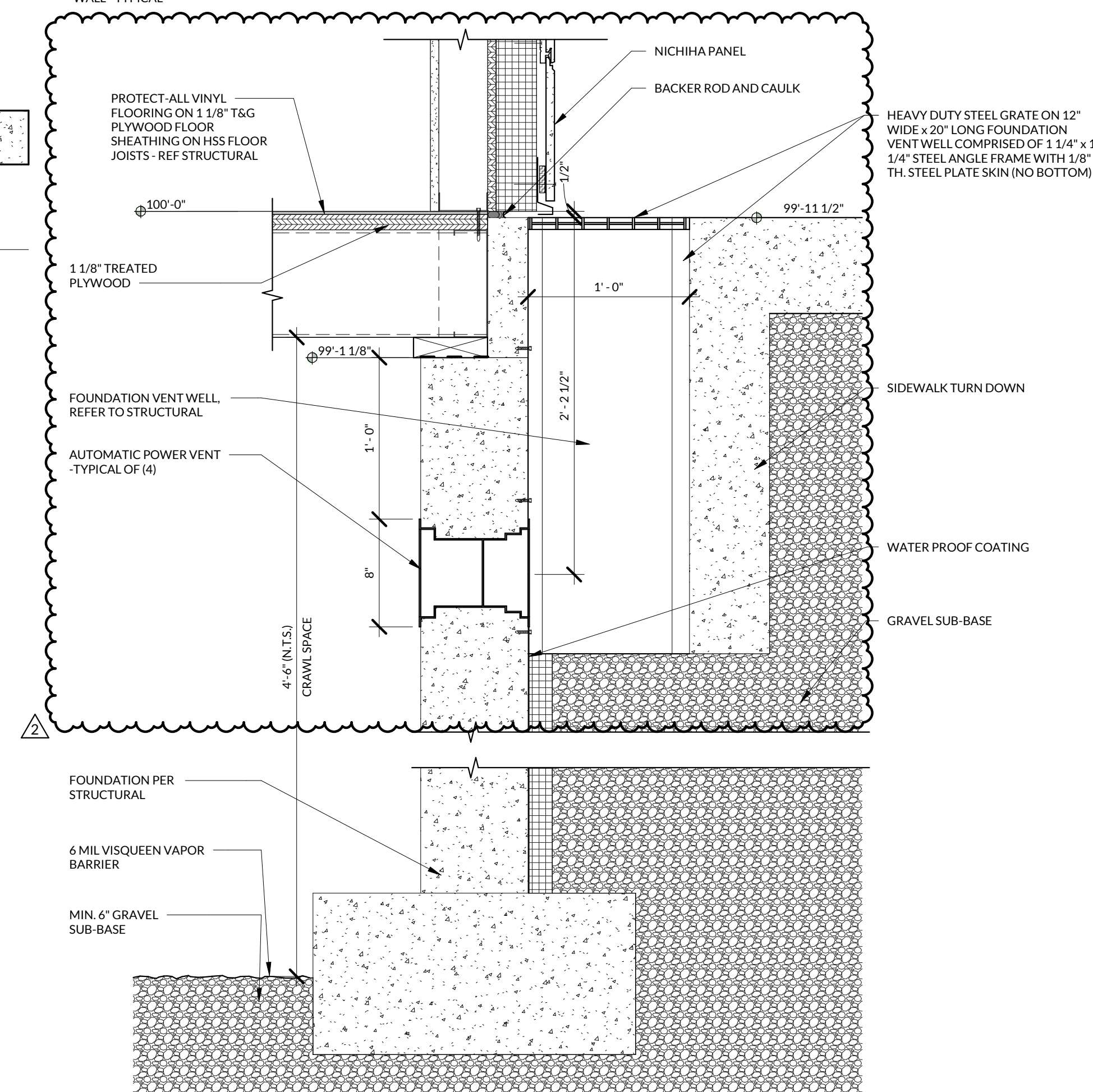
A2.2

EXTERIOR
ELEVATIONS

DATE: APRIL 22, 2022



1 BUILDING SECTION
1/2" = 1'-0"



2 FOUNDATION VENT WELL DETAIL
1 1/2" = 1'-0"

7 BREW COFFEE
LEE'S SUMMIT, MO

1430 ONE DOUGLAS ST.
LEE'S SUMMIT, MO 64086

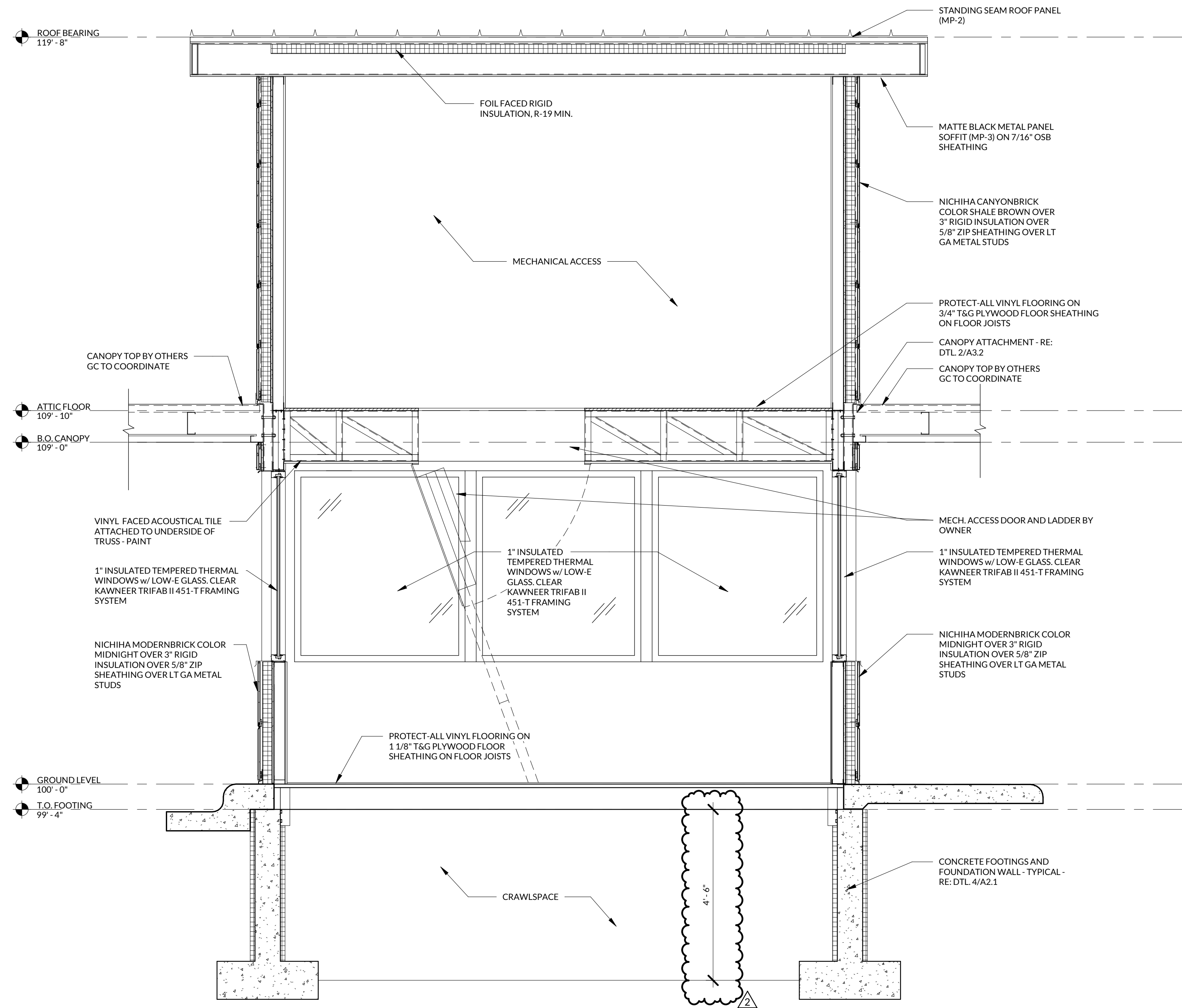


ARCHITECT OF RECORD:
NAME: ADAM KREHER
LICENSE NO. 2011002764

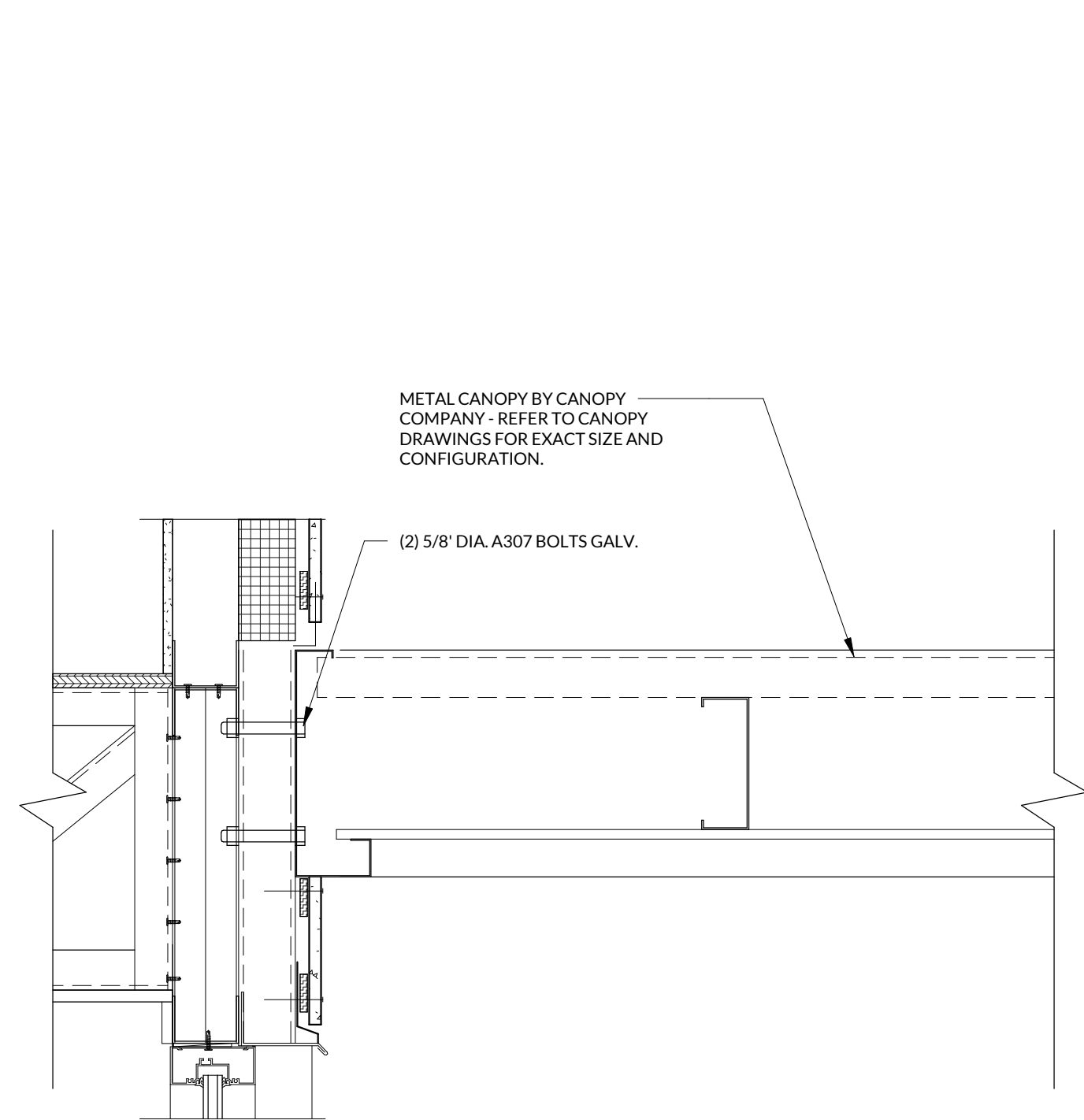
PROJECT NUMBER:
220337BLS

REVISION: **1** ADD 001
6/17/22

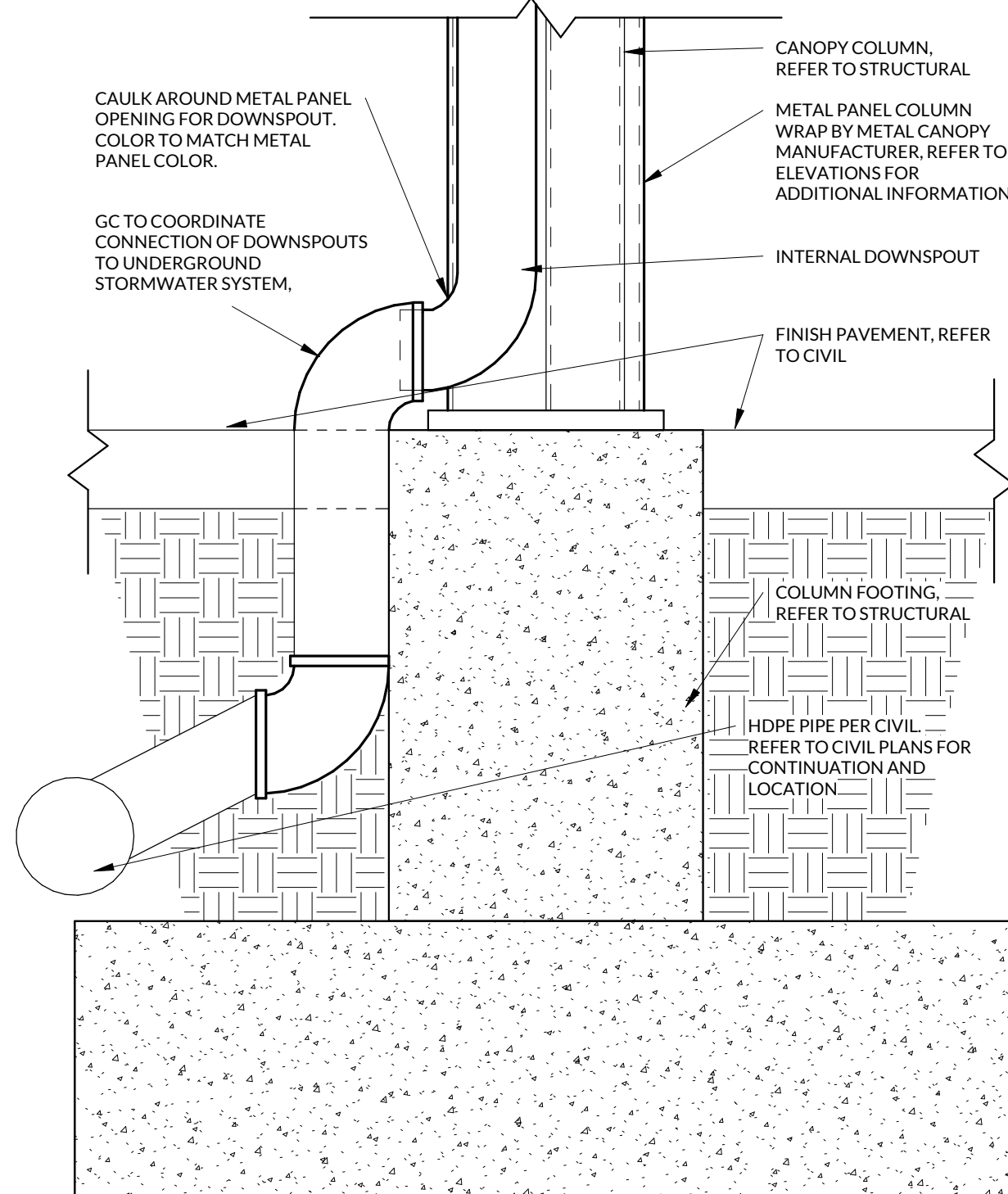
2 ADD 002
7/5/22



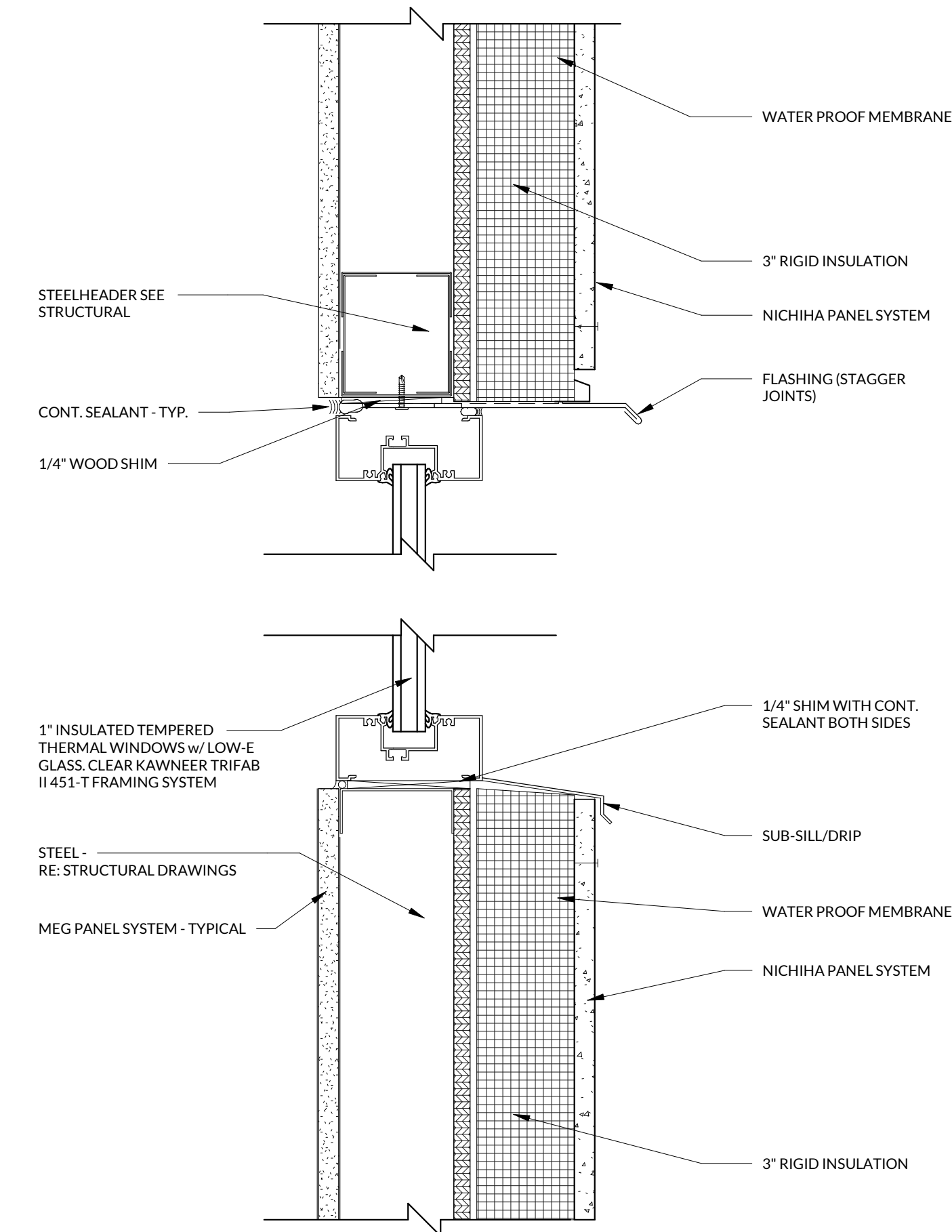
1 BUILDING SECTION
1/2" = 1'-0"



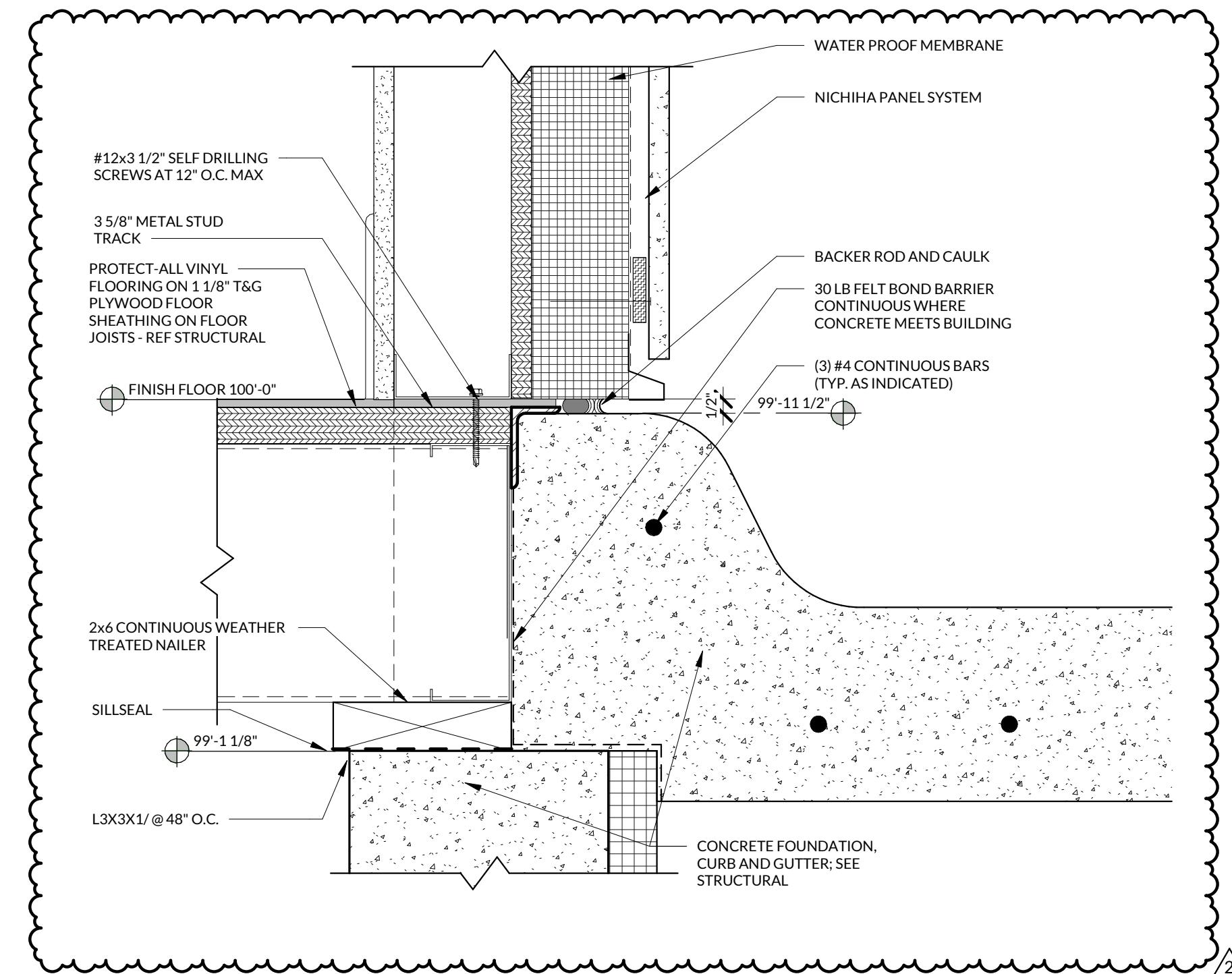
2 DETAIL - CANOPY CONNECTION DETAIL
1 1/2" = 1'-0"



3 DETAIL - DOWNSPOUT COLLECTION CONNECTION
1 1/2" = 1'-0"



4 ENLARGED WALL SECTION AT WINDOW
3" = 1'-0"



7 BREW COFFEE
LEE'S SUMMIT, MO

1430 NE DOUGLAS ST.
LEE'S SUMMIT, MO 64086



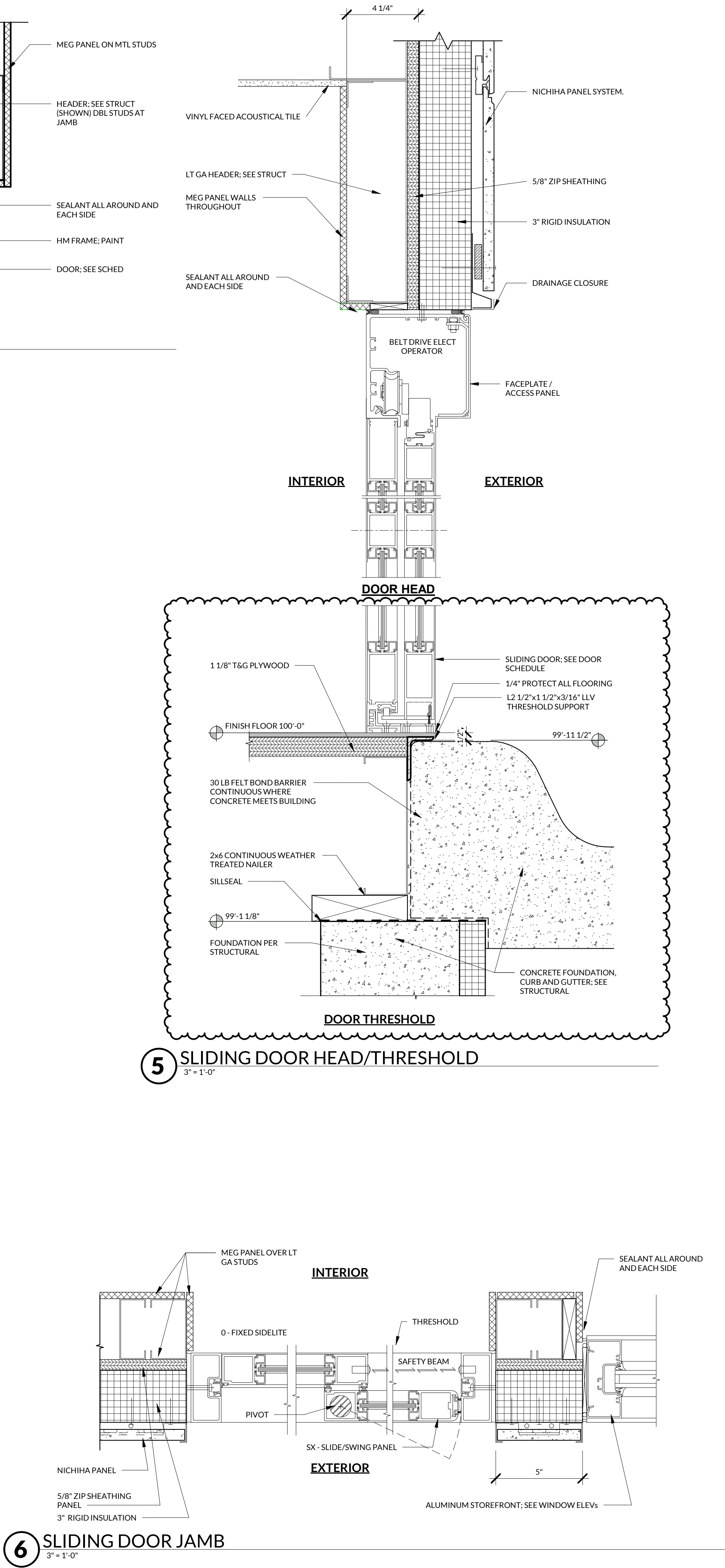
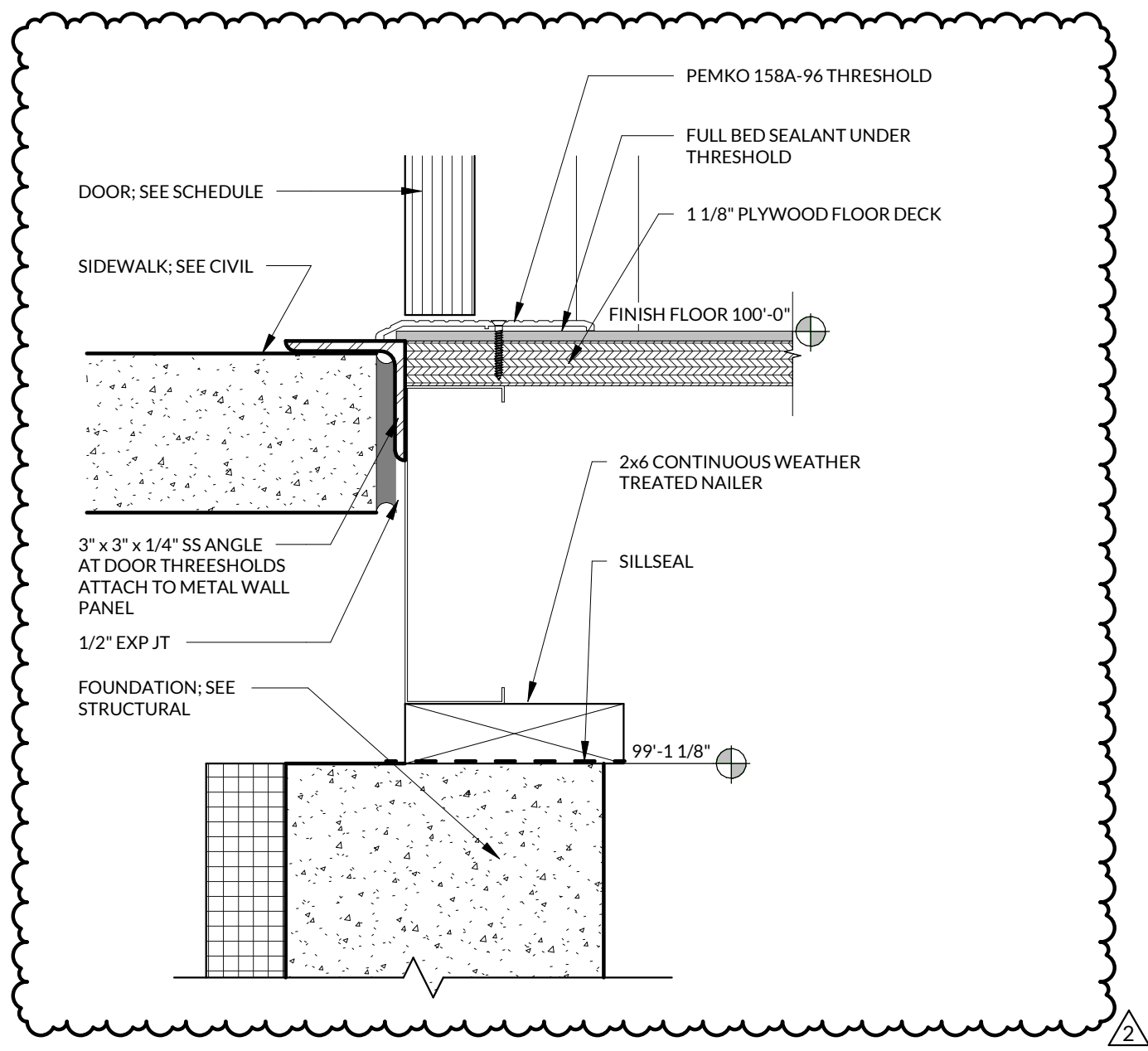
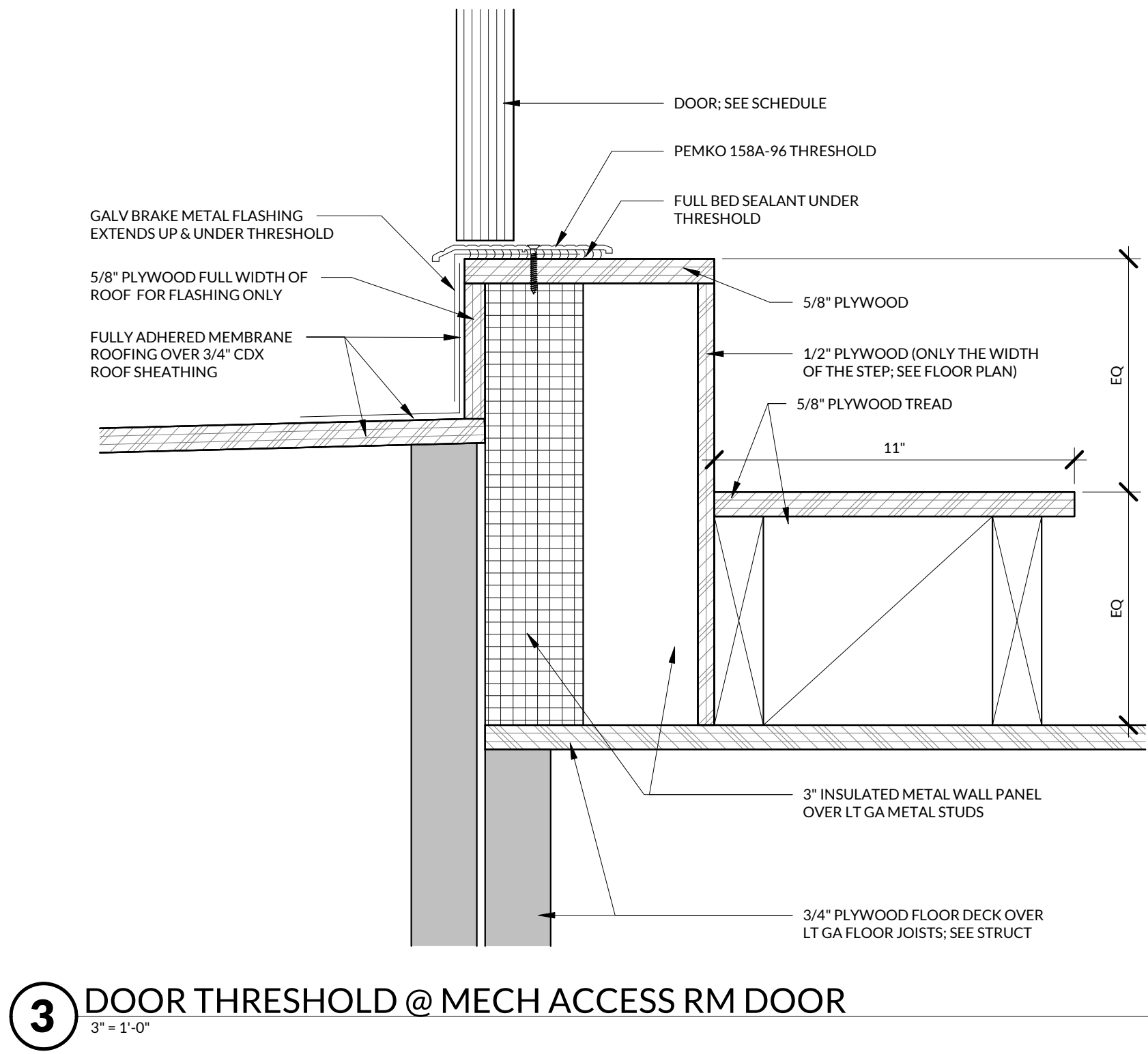
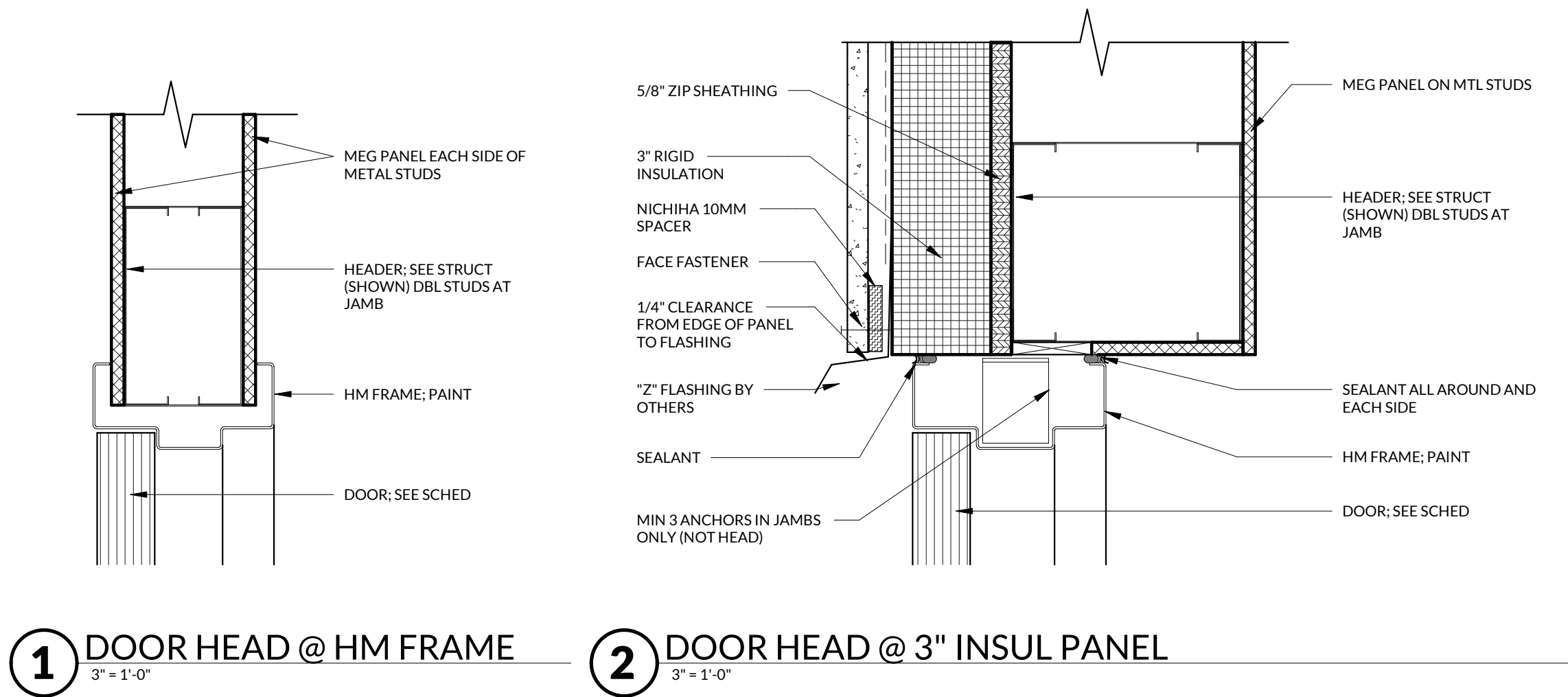
ARCHITECT OF RECORD:
NAME: ADAM KREHER
LICENSE NO. 2011002764

PROJECT NUMBER:
220337BLS

REVISION: **A** ADD 002
7/5/22

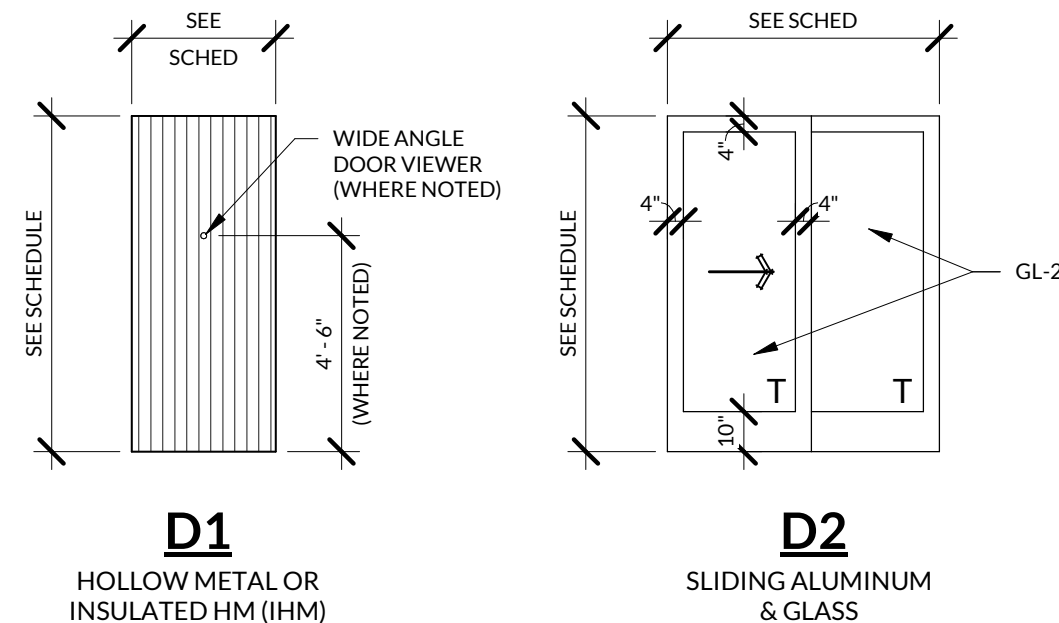
A3.2

SECTIONS AND
DETAILS
DATE: APRIL 22, 2022

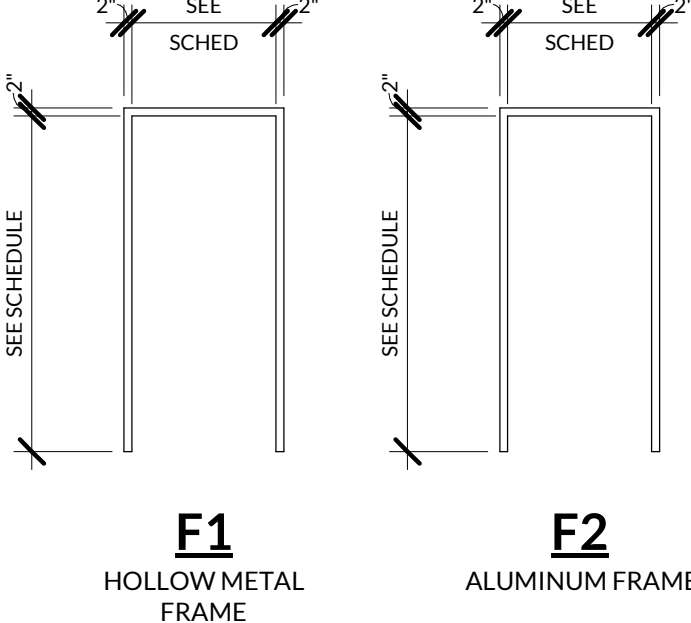


DOOR SCHEDULE											
DOOR NUMBER	ROOM	SIZE	DOOR		FRAME		DETAILS			FIRE RATING	HARDWARE SET
			TYPE	MATERIAL	TYPE	MATERIAL	HEAD	JAMB	THRESHOLD		
101a	SERVICE AREA	3'-0"x7'-0"	D1	HM	F1	HM	2/A4.1	2/A4.1 SIM.	--		1
101b	SERVICE AREA	6'-0"x7'-6"	D2	ALUM	F2	ALUM	3/A2.2	3/A2.2	--		4
101c	SERVICE AREA	6'-0"x7'-6"	D2	ALUM	F2	ALUM	3/A2.2	3/A2.2	--		4
101d	SERVICE AREA	6'-0"x7'-6"	D2	ALUM	F2	ALUM	3/A2.2	3/A2.2	--		4
102	TOILET	3'-0"x7'-0"	D1	HM	F1	HM	1/A4.1	1/A4.1 SIM.	--		2
201	MECH. ACCESS ROOM	2'-0"x6'-0"	D1	IHM	F1	HM	2/A4.1	2/A4.1 SIM.	--		3

DOOR ELEVATIONS



FRAME ELEVATIONS



DOOR SCHEDULE NOTES:

- REFER TO DOOR SCHEDULE FOR HARDWARE SETS
- PAINT TO MATCH ADJACENT FINISHES
- REFER TO CODE COMPLIANCE DOOR NOTES (BELOW) FOR ADDITIONAL REQUIREMENTS.

CODE COMPLIANCE DOOR NOTES:

- ALL EXIT DOORS SHALL CONFORM TO THE FOLLOWING PROVISIONS OF THE INTERNATIONAL BUILDING CODE (IBC) AND THE STATE OF MISSOURI ACCESSIBILITY CODE:
- THE EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF ANY SPECIAL KNOWLEDGE OR EFFORT WHEN THE BUILDING IS OCCUPIED.
 - ALL HAND-ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 34" TO 48" A.F.F. AND SHALL BE OPERATED WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE.
 - DOOR LEADING TO UNSEX TOILET ROOM SHALL BE IDENTIFIED WITH A 12" DIAMETER CIRCLE WITH A TRIANGLE SUPERIMPOSED ON THE CIRCLE AND WITHIN THE 12" DIAMETER. SIGN/SYMBOL SHALL BE MOUNTED ON THE WAL ON THE LATCH SIDE OF THE DOOR AND 60" A.F.F. AND NO MORE THAN 8" FROM THE EDGE OF THE DOOR TO THE EDGE OF THE SIGN.

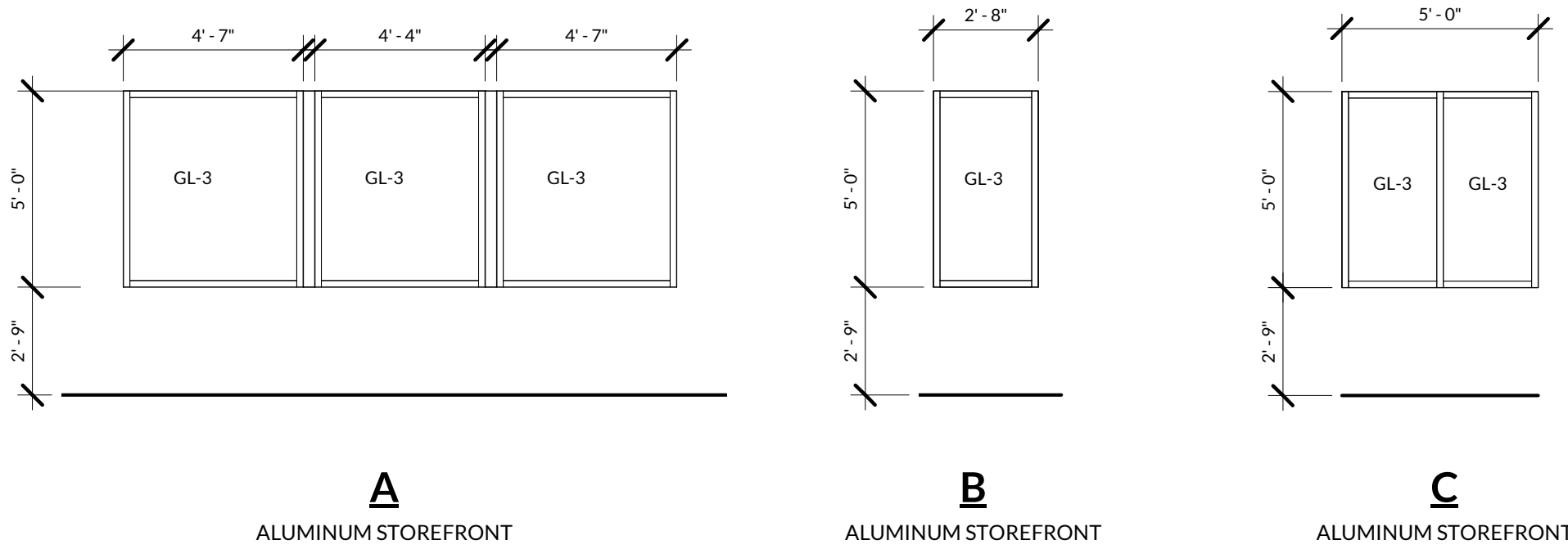
GENERAL NOTES

- ALL GLAZING FOR EXTERIOR DOOR OR WINDOW FRAMES SHALL BE INSULATED
- ALL GLAZING FOR INTERIOR DOOR OR WINDOW FRAMES SHALL BE UNINSULATED, SINGLE PANE

DOOR & FRAME FINISH LEGEND

- AL = ALUM DOOR OR FRAME
- HM = HOLLOW METAL DOOR OR FRAME
- F1 = PAINTED
- F2 = PRE-FINISHED; CLEAN & PROTECT

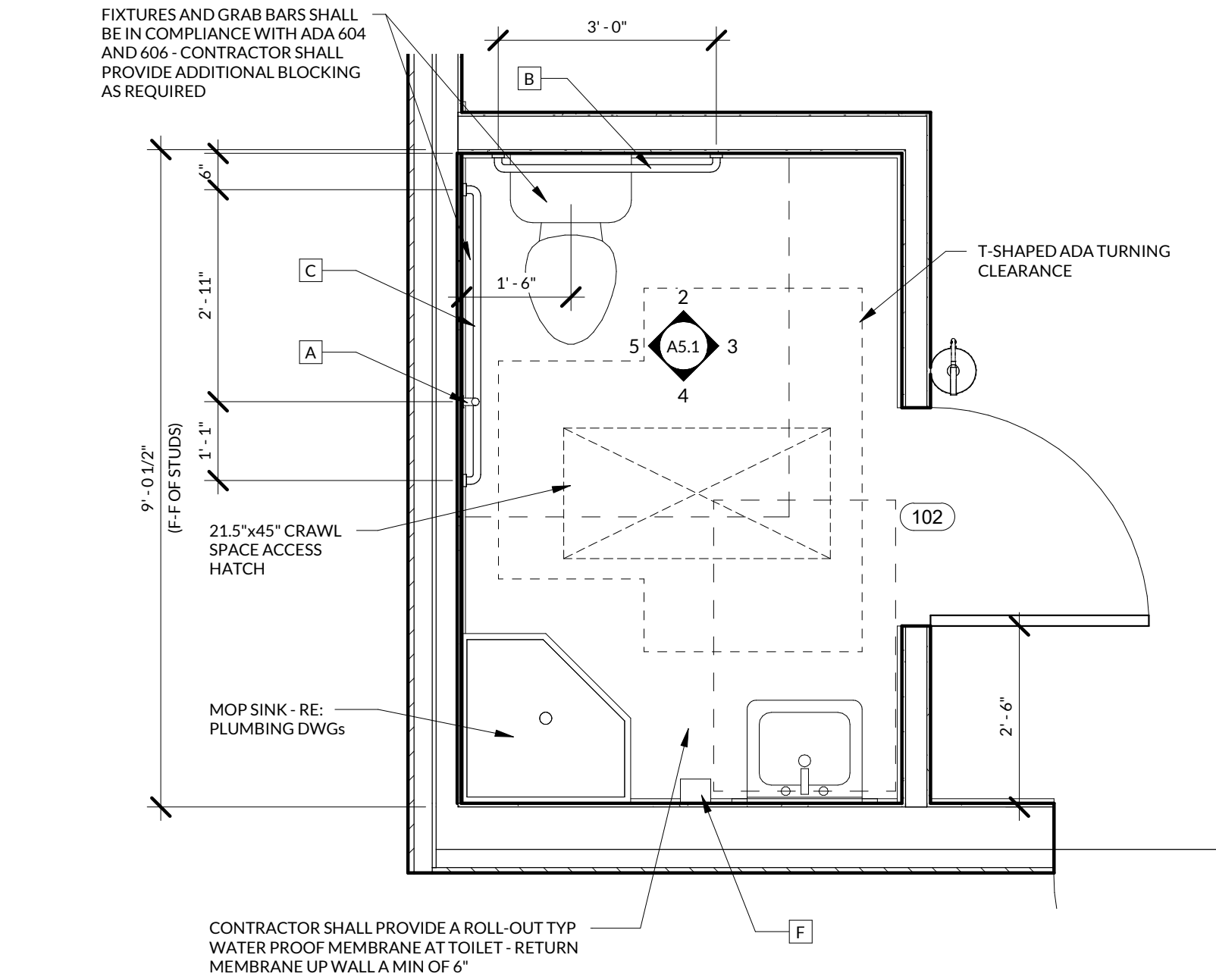
WINDOW ELEVATIONS



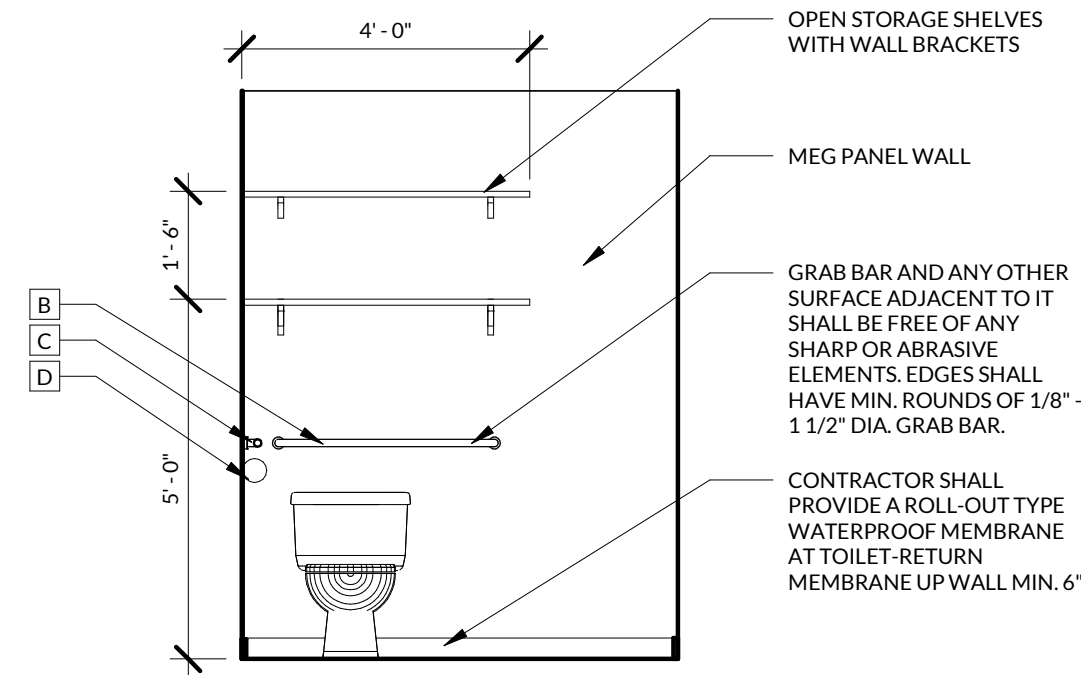
ARCHITECT OF RECORD:
NAME: ADAM KREHER
LICENSE NO. 2011002764

PROJECT NUMBER:
220337BLS

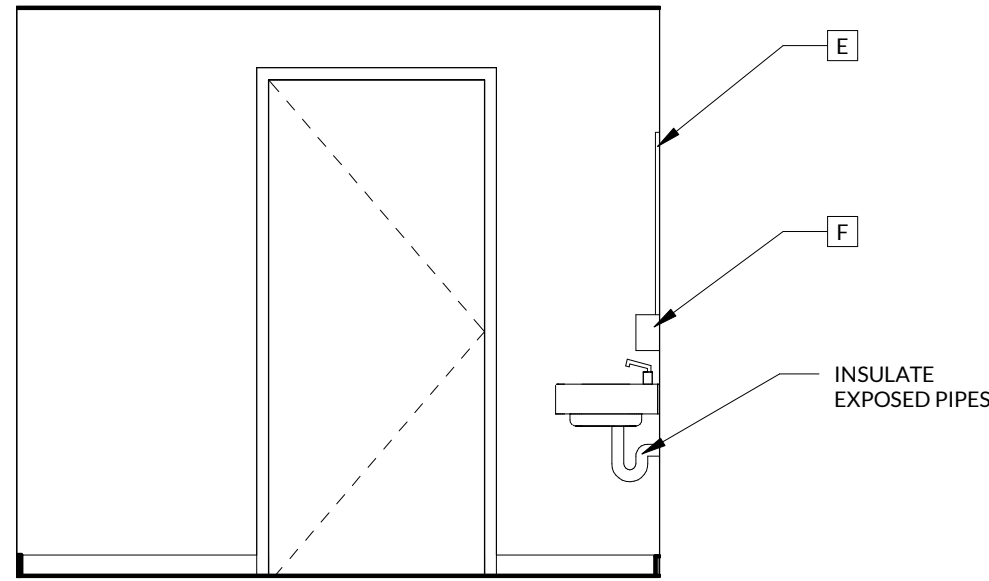
REVISION: ADD 002
7/5/22



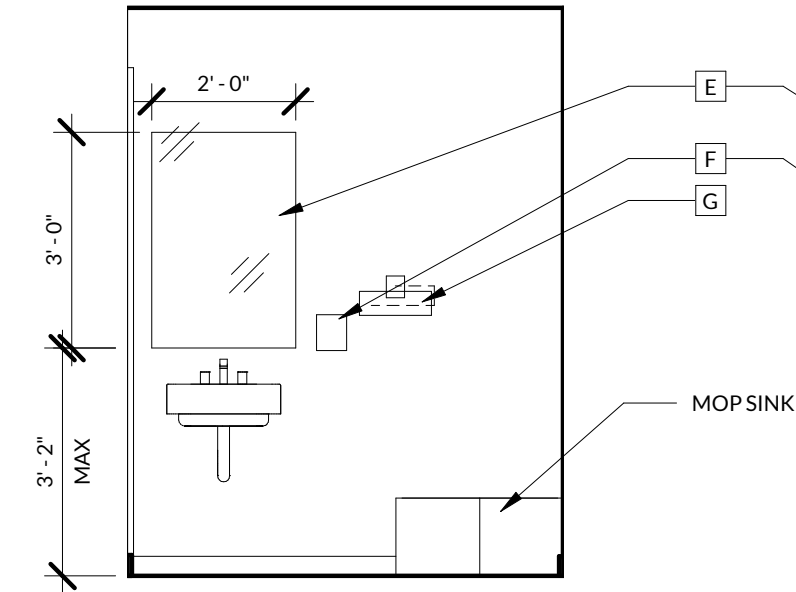
1 ENLARGED RESTROOM PLAN
1/2" = 1'-0"



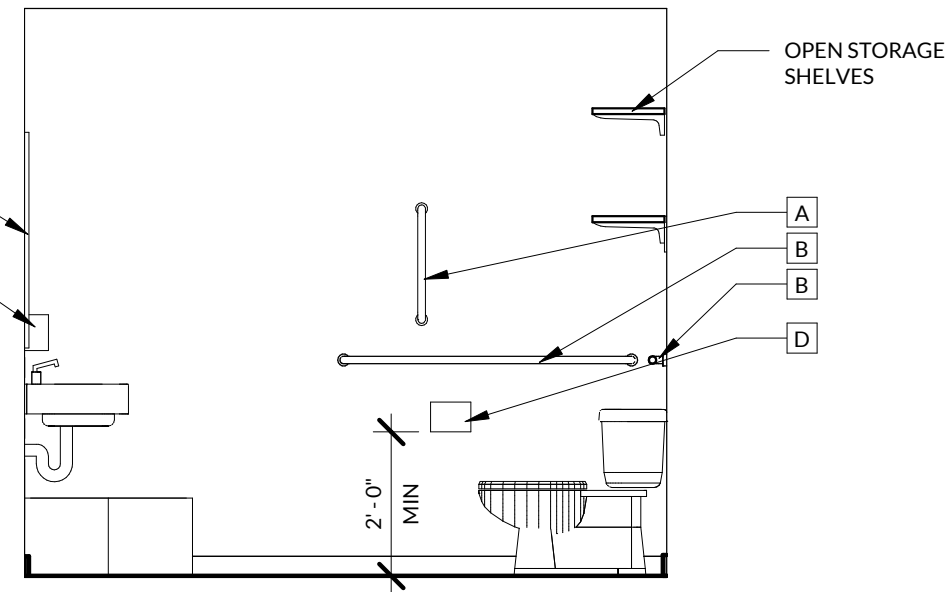
2 RR 102 - NORTH ELEVATION
3/8" = 1'-0"



3 RR 102 - EAST ELEVATION
3/8" = 1'-0"

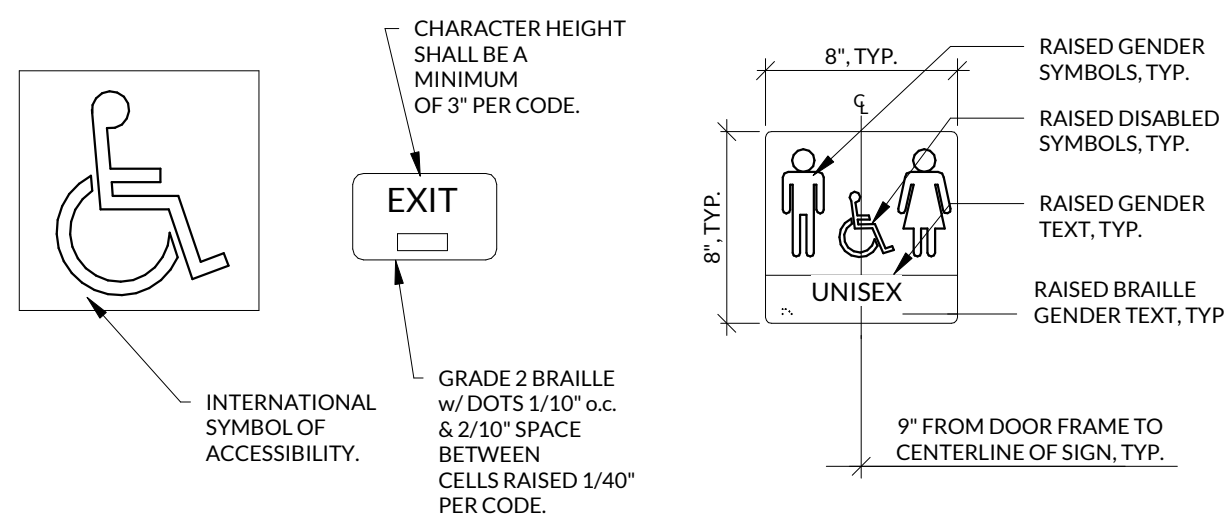


4 RR 102 - SOUTH ELEVATION
3/8" = 1'-0"



5 RR 102 - WEST ELEVATION
3/8" = 1'-0"

RESTROOM SIGNAGE



NOTES:

- SIGNS SHALL CONFORM TO ANSI OR LOCAL ACCESSIBILITY GUIDELINES WHICHEVER IS MORE STRINGENT.
- ALL BUILDINGS AND ENTRANCES THAT ARE ACCESSIBLE AND USABLE BY PERSONS WITH DISABILITIES SHALL BE IDENTIFIED WITH A MINIMUM OF ONE INTERNATIONAL SYMBOL OF ACCESSIBILITY.
- G.C. TO PROVIDE TACTILE "EXIT" SIGNS AT ALL GRADE LEVEL EXIT DOORS PER CODE.
- SIGNS TO BE INSTALLED ON THE LATCH SIDE OF THE DOOR, OR IF NO SPACE ON THE NEAREST WALL PREFERABLY ON THE RIGHT. SIGNAGE SHALL HAVE NON GLARE FINISH W/ A CONTRASTING BACKGROUND.

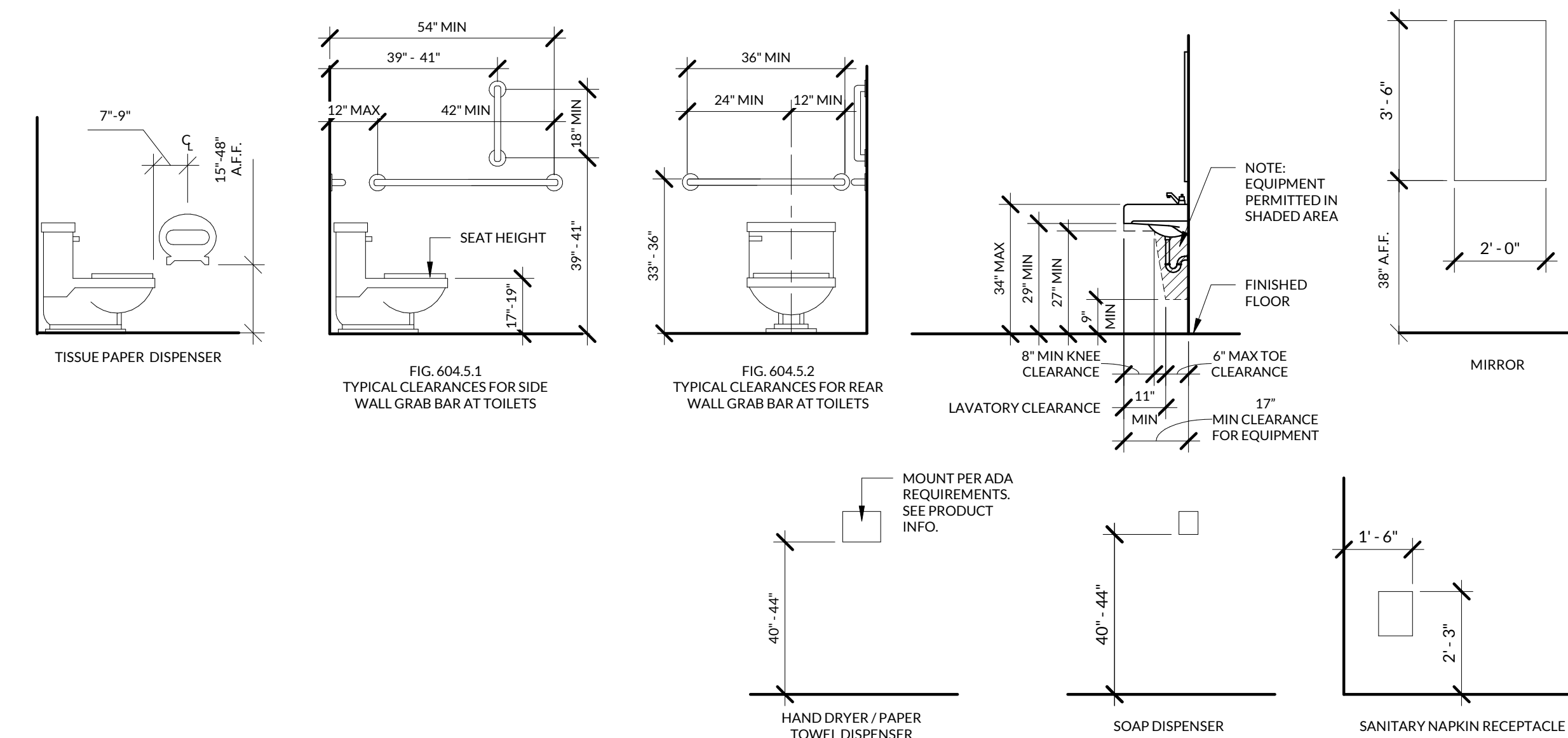
RESTROOM SCHEDULE

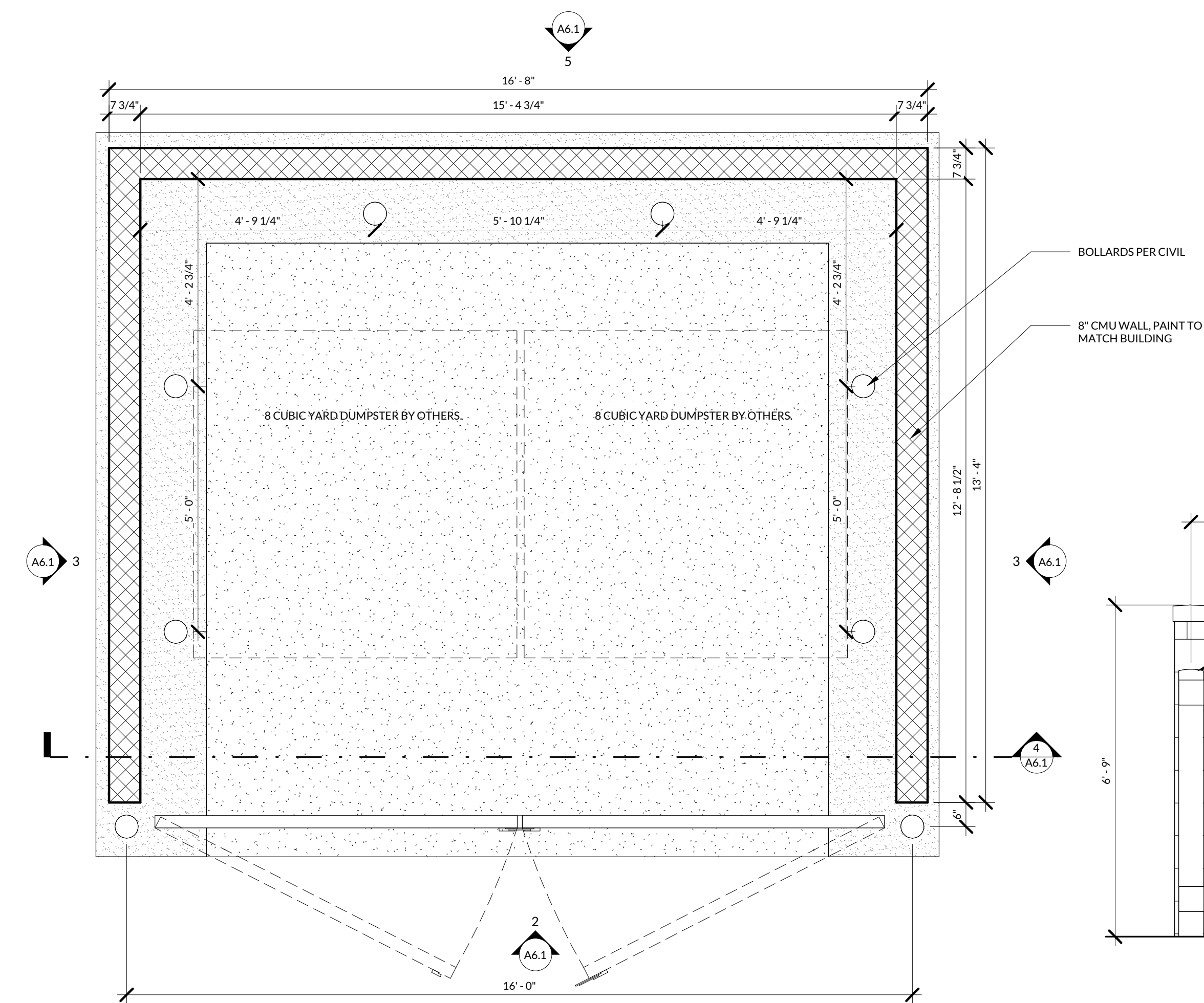
MARK	ITEM	DESCRIPTION	NOTES
A	18" STRAIGHT GRAB BAR	EQ. TO BOBBRICK B-5806x18, VERTICAL	FINISH TO BE STAINLESS STEEL
B	36" STRAIGHT GRAB BAR	EQ. TO BOBBRICK B-5806x36, HORIZONTAL	FINISH TO BE STAINLESS STEEL
C	48" STRAIGHT GRAB BAR	EQ. TO BOBBRICK B-5806x48, HORIZONTAL	FINISH TO BE STAINLESS STEEL
D	TOILET PAPER DISPENSER		FINISH TO BE STAINLESS STEEL
E	MIRROR	EQ. TO BOBBRICK B-165 2436	FINISH TO BE STAINLESS STEEL
F	SOAP DISPENSER		FINISH TO BE STAINLESS STEEL
G	PAPER TOWEL DISPENSER		FINISH TO BE STAINLESS STEEL

NOTES:

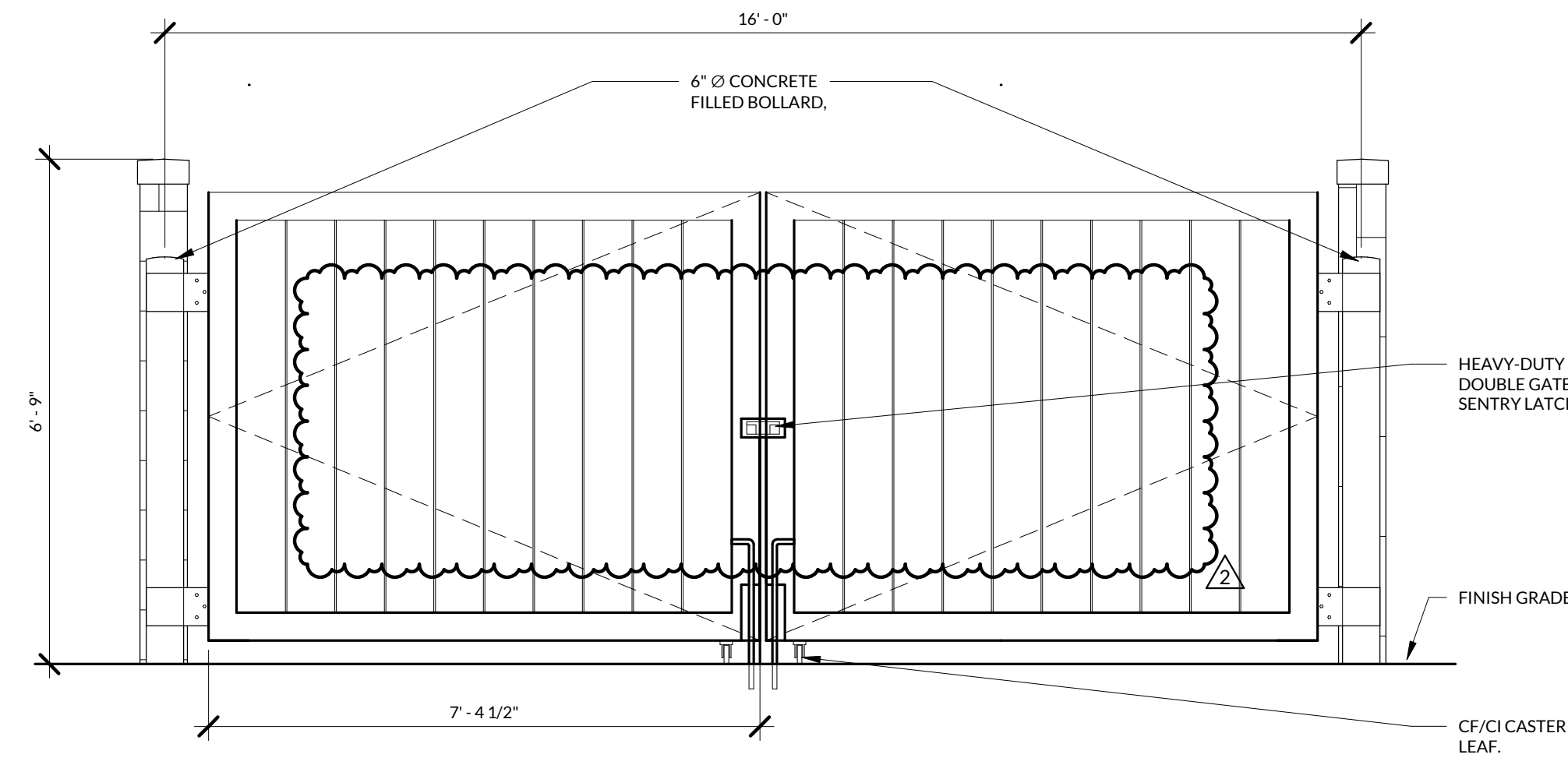
- MOUNTING HEIGHT TO COMPLY WITH ADA REQUIREMENTS. CONTRACTOR IS TO PROVIDE ALL BLOCKING NECESSARY FOR PROPER INSTALLATION. INSTALL PER MANF. RECOMMENDATIONS.
- EQUIPMENT SHOWN MAY NOT REFLECT APPEARANCE OF FINAL EQUIPMENT SELECTION.
- ALL EQUIPMENT SHALL BE EQUAL TO THAT SPECIFIED CONTRACTOR TO SUBMIT SHOP DRAWINGS/ CUT SHEETS FOR APPROVAL ON FINAL SELECTION.
- ALL DIMENSIONS TO BE VERIFIED WITH PRODUCT REQUIREMENTS. INSTALL PER MANF. RECOMMENDATIONS.

RESTROOM CLEARANCE AND MOUNTING HEIGHTS

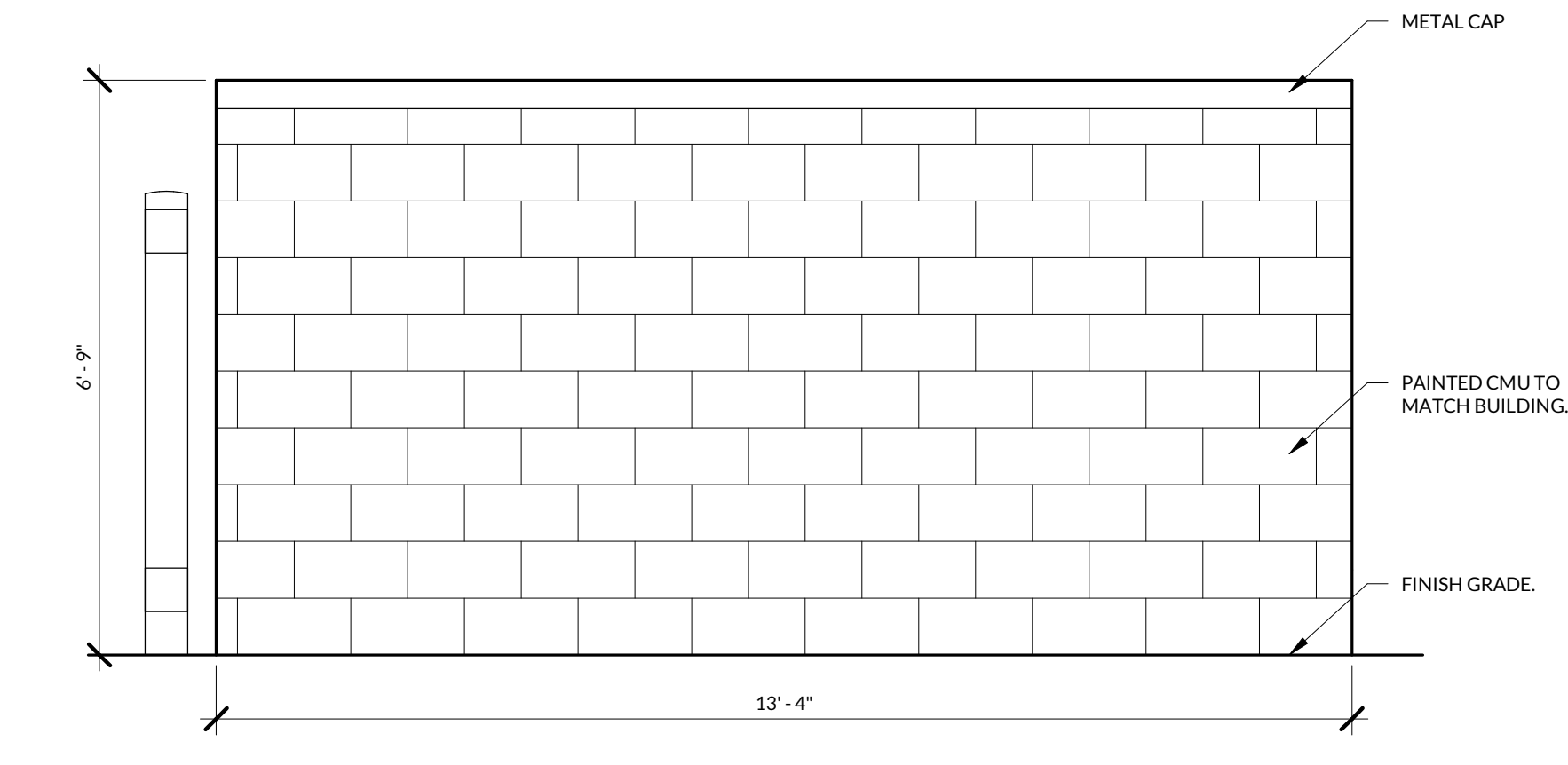




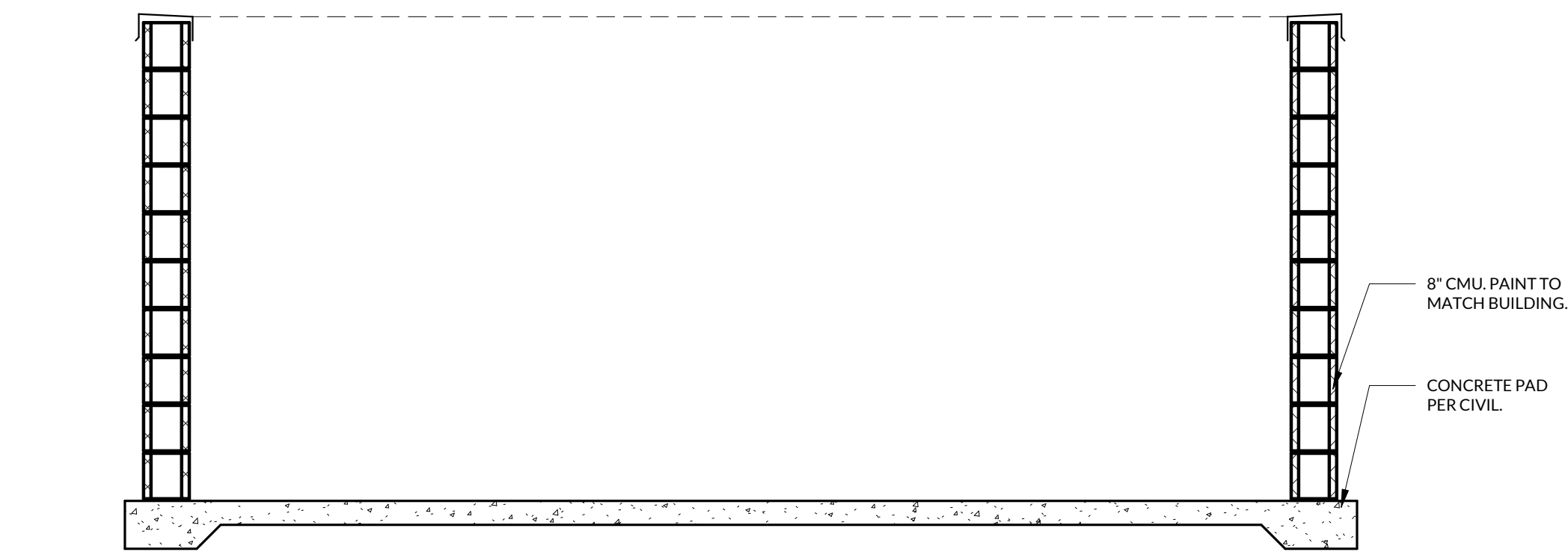
1 TRASH ENCLOSURE
1/2" = 1'-0"



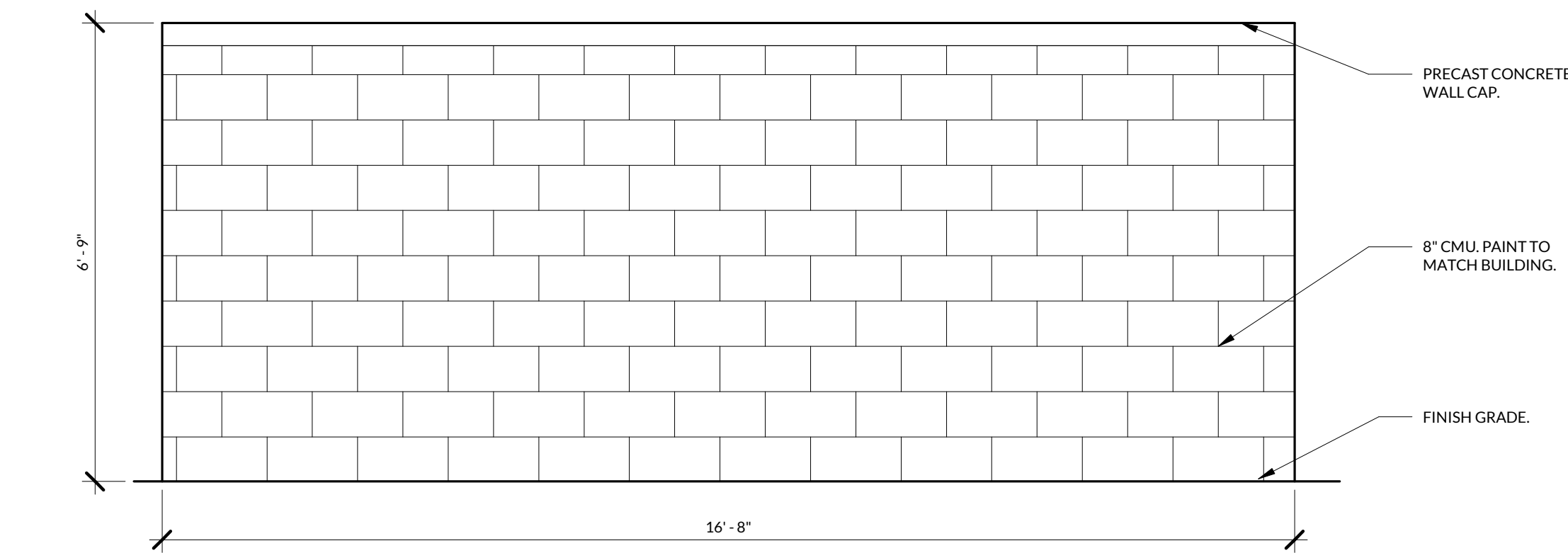
2 TRASH ENCLOSURE - FRONT ELEVATION
1/2" = 1'-0"



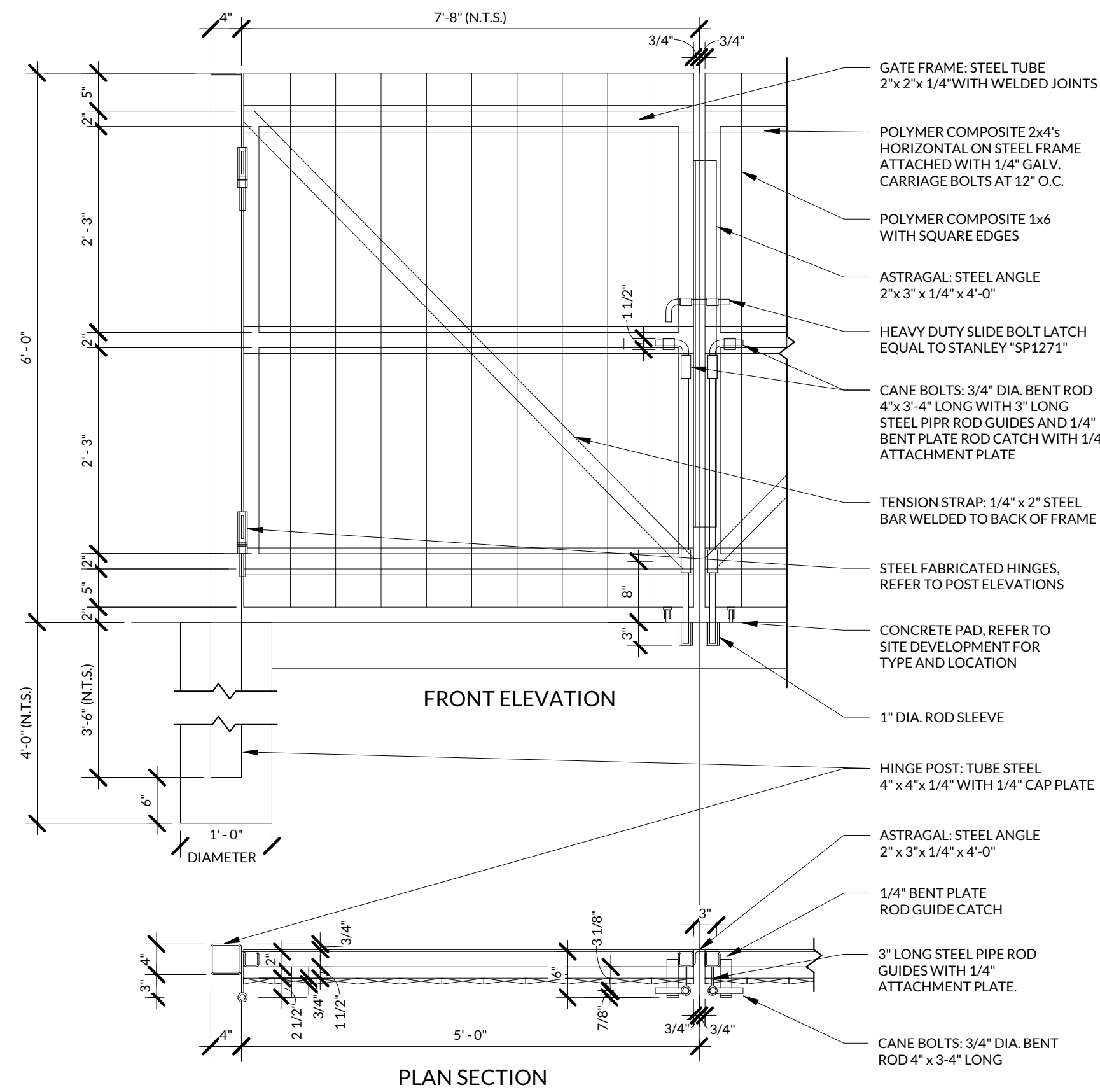
3 TRASH ENCLOSURE - SIDE ELEVATION
1/2" = 1'-0"



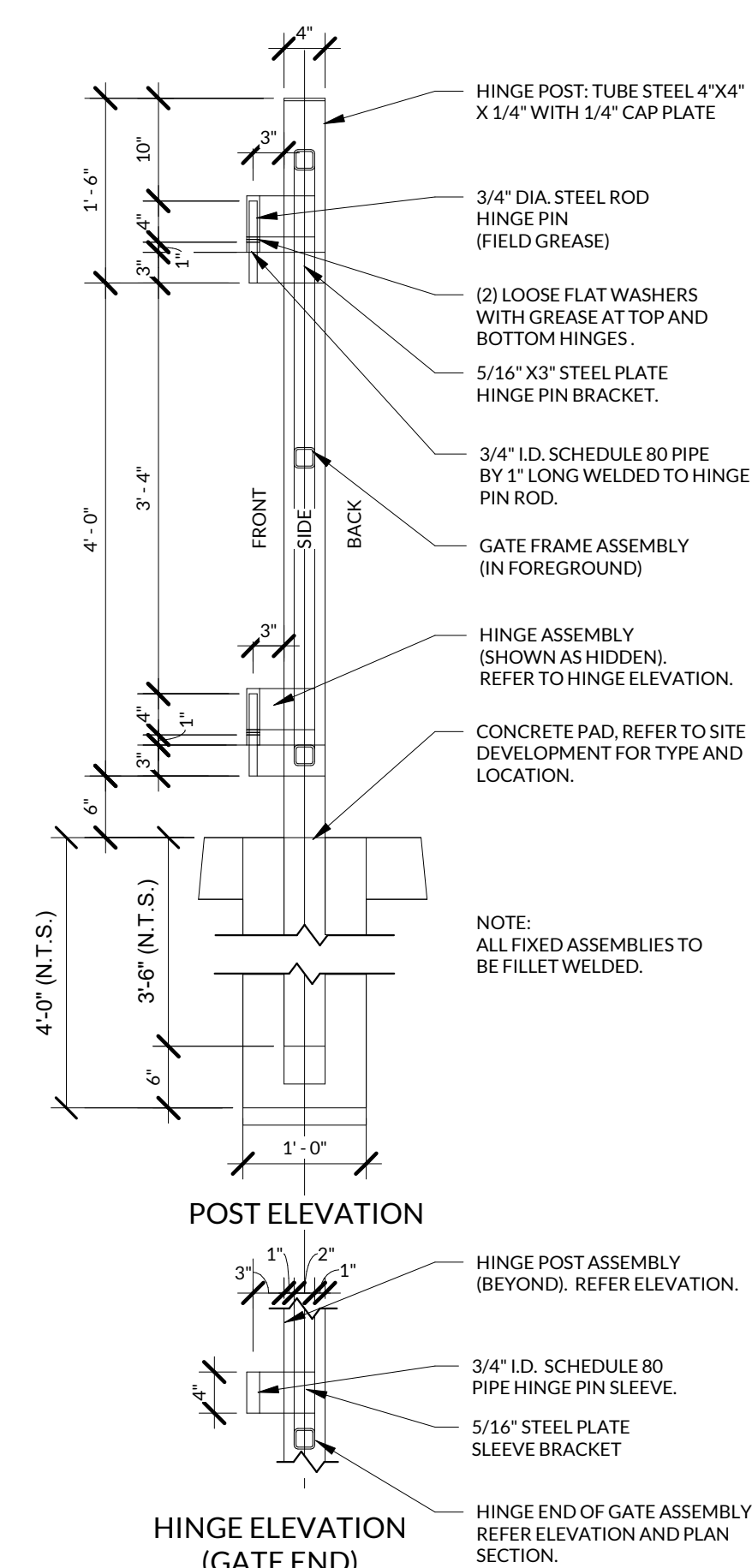
4 TRASH ENCLOSURE - SECTION DETAIL
1/2" = 1'-0"



5 TRASH ENCLOSURE - BACK ELEVATION
1/2" = 1'-0"



6 TRASH ENCLOSURE GATE DETAILS
3/4" = 1'-0"



7 BREW COFFEE
LEE'S SUMMIT, MO

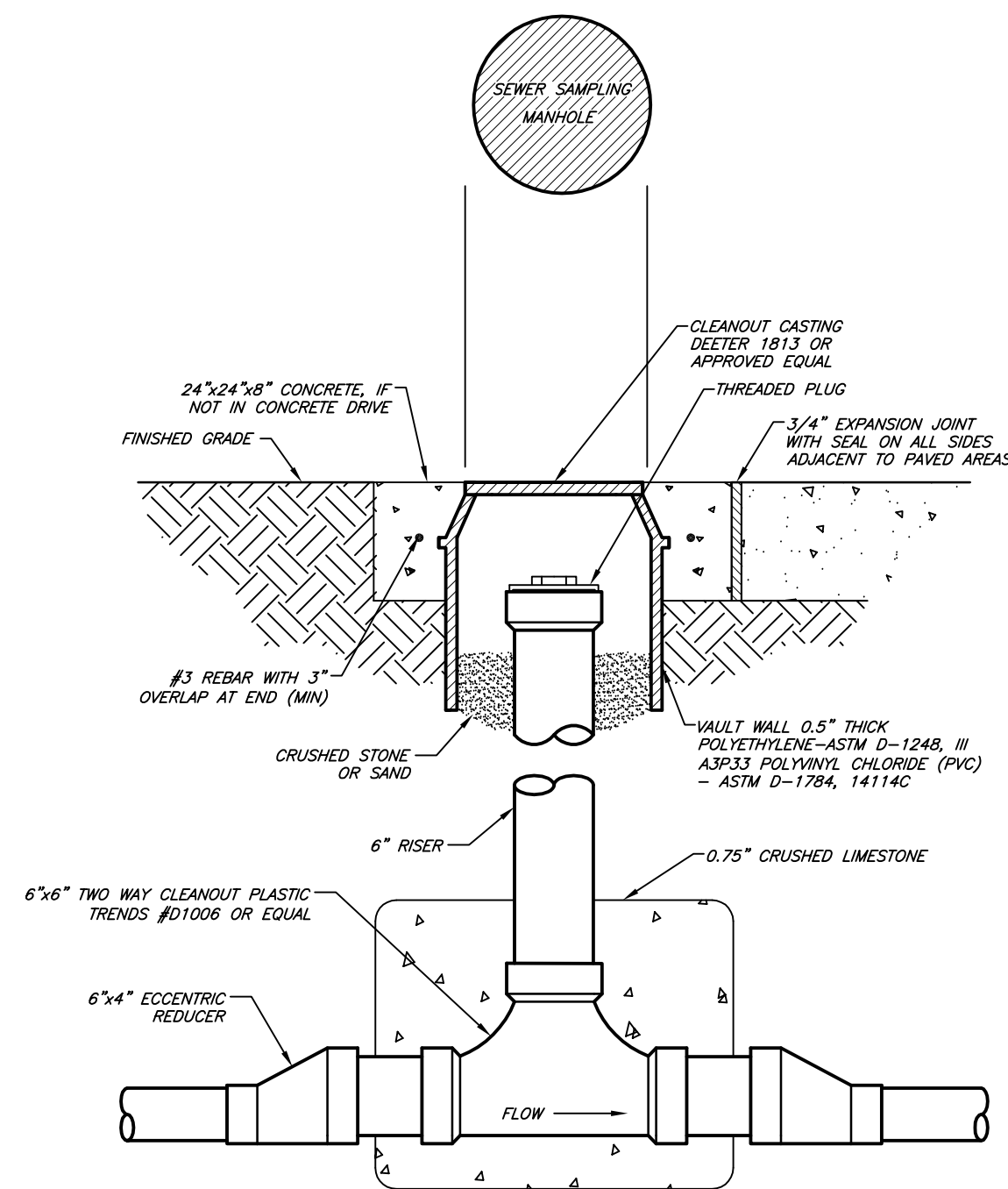
1430 NE DOUGLAS ST.
LEE'S SUMMIT, MO 64086



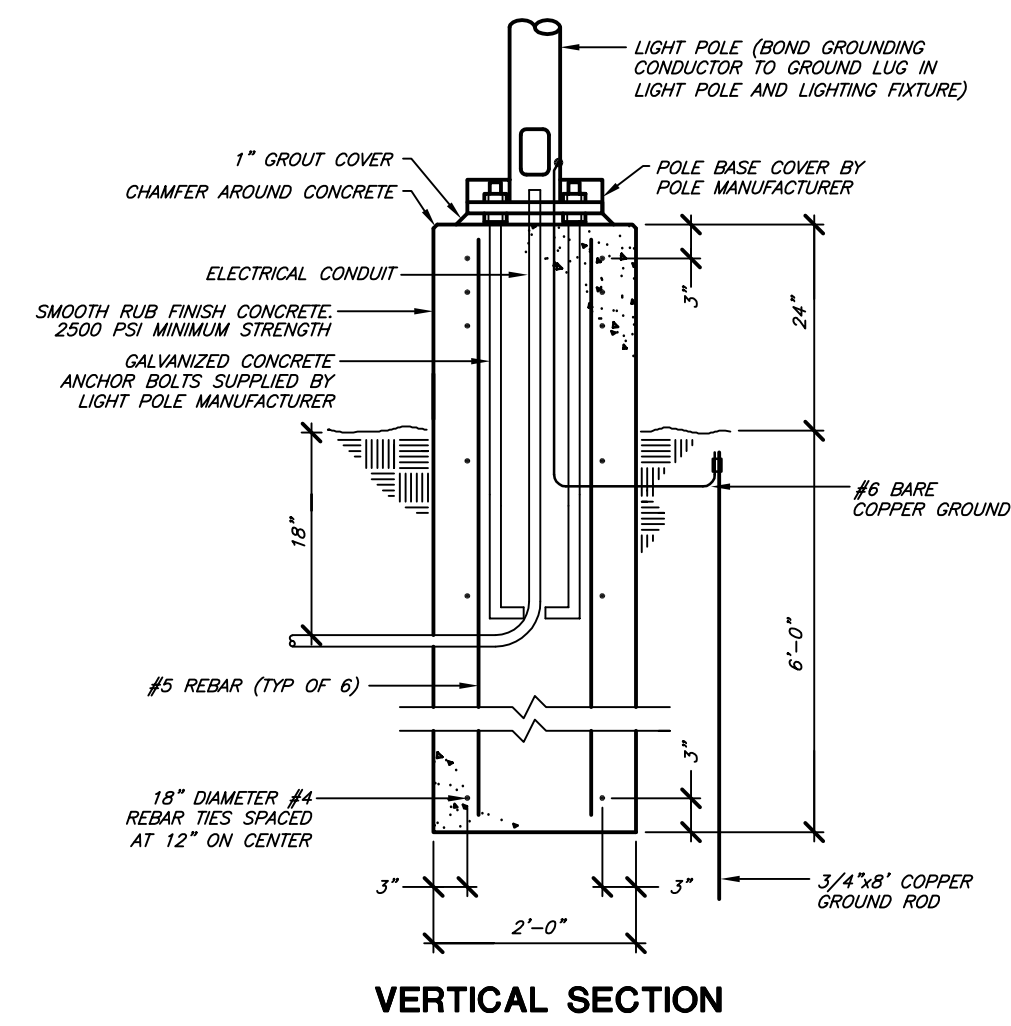
ARCHITECT OF RECORD:
NAME: ADAM KREHER
LICENSE NO. 2011002764

PROJECT NUMBER:
220337BLS

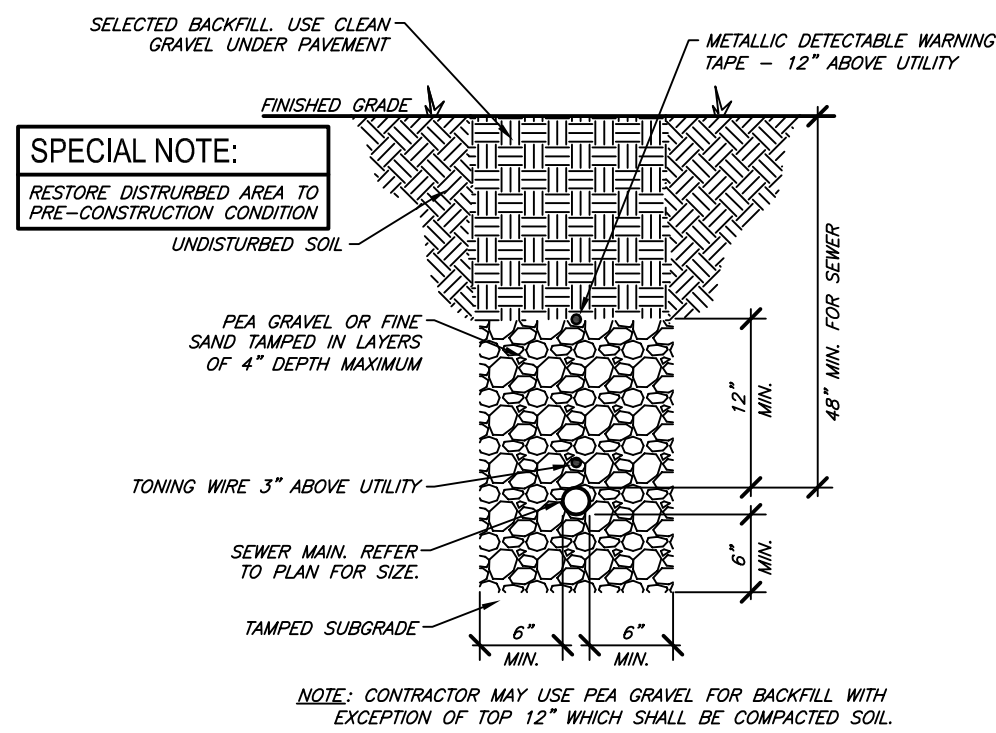
REVISION: **A** ADD 002
7/5/22



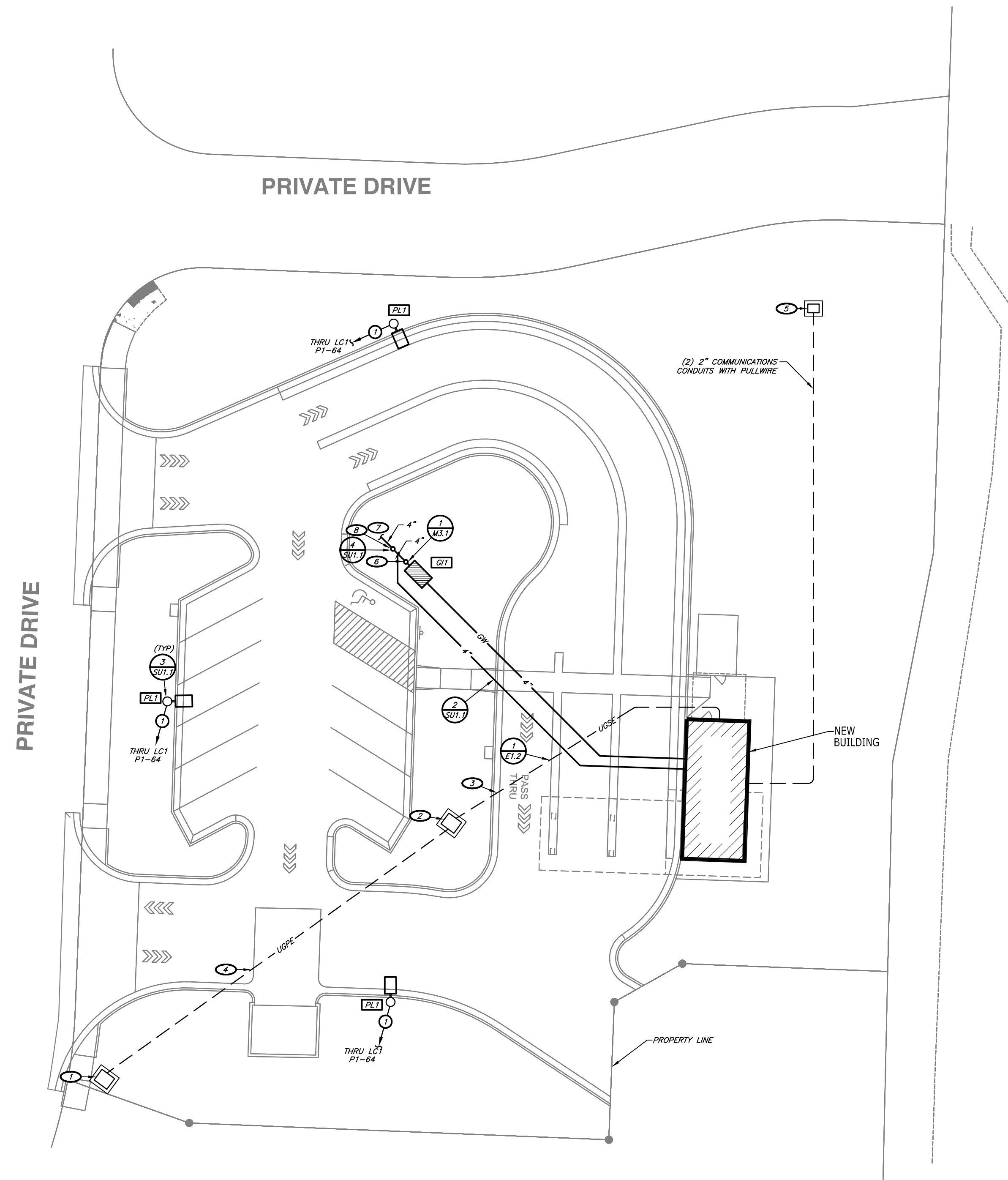
4 FINISH GRADE SAMPLING MANHOLE DETAIL
NO SCALE



3 LIGHT POLE CONCRETE BASE
NO SCALE



2 SEWER TRENCH DETAIL
NO SCALE



1 SITE PLAN
1" = 20'-0"
NORTH

KEYNOTES:

- EXISTING PRIMARY JUNCTION BOX IN THIS AREA. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH UTILITY COMPANY.
- PADMOUNT 120/240-VOLT SINGLE-PHASE TRANSFORMER BY UTILITY COMPANY. CONCRETE PAD BY CONTRACTOR. EXACT LOCATION SHALL BE FIELD DETERMINED/COORDINATED.
- SECONDARY CONDUIT AND CONDUCTORS BY CONTRACTOR. FIELD COORDINATE EXACT ROUTINGS.
- PRIMARY CONDUITS AND CONDUCTORS BY UTILITY COMPANY. VERIFY EXACT ROUTING, TERMINATION LOCATION, AND REQUIREMENTS WITH THE UTILITY COMPANY. COORDINATE WITH UTILITY COMPANY FOR CONDUCTOR/CONDUIT SIZES.
- PROVIDE 18x18 2-BOLT, OPEN BOTTOM, HEAVY DUTY PULL BOX EQUIVALENT TO HUBBELL-QUAZTE MODEL DT12123250. "COMMUNICATIONS" SHALL BE INSCRIBED ON THE LID. INSTALL TOP OF BOX FLUSH WITH FINISH GRADE. PROVIDE EXTENSION AS REQUIRED TO MATCH CONDUIT BURIAL DEPTH. VERIFY/COORDINATE EXACT SERVICE LOCATION AND ALL REQUIREMENTS WITH SERVICE PROVIDER(S) PRIOR TO CONDUIT AND COMMUNICATION BOX INSTALLATION.
- 4" WASTE UP TO FINISH GRADE CLEANOUT.
- REFER TO CIVIL PLAN FOR CONTINUATION.
- 4" WASTE UP TO SAMPLING MANHOLE.

CONDUIT & CONDUCTOR SCHEDULE:

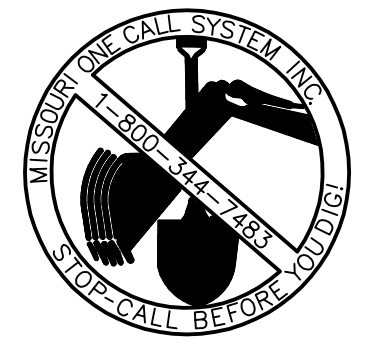
- (2) #10 AND (1) #10 GROUND IN 0.75" CONDUIT.

GENERAL NOTES:

- UTILITY ROUTINGS ARE DIAGRAMMATIC. ADJUST EXACT ROUTING TO ACCOMMODATE FIELD CONDITIONS. REFER TO CIVIL AND PUBLIC IMPROVEMENT PLANS FOR NEW SEWER, WATER AND STORMWATER PIPING.
- REFER TO CIVIL AND PUBLIC IMPROVEMENT PLANS FOR LOCATION AND COORDINATION OF ALL EASEMENTS.
- REVIEW ALL CIVIL AND PUBLIC IMPROVEMENT PLANS AND COORDINATE ALL WORK WITH DIFFERENT DISCIPLINES. REVIEW AND OBTAIN APPROVAL FROM CITY UTILITIES AND CITY OF SPRINGFIELD PRIOR TO PERFORMING ANY UTILITY WORK.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID. NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS. PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL AND CIVIL DRAWINGS FOR DIMENSIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING TEMPORARY TELEPHONE, ELECTRICAL AND WATER SERVICES REQUIRED DURING CONSTRUCTION, AND SHALL PAY ALL ASSOCIATED COSTS.
- THE CONTRACTOR SHALL CONTACT EVERGY AT (888) 471-5275 AND ARRANGE FOR ELECTRICAL SERVICES AS INDICATED ON DRAWINGS. THE CONTRACTOR SHALL INCLUDE ALL FEES, CHARGES, ETC. INCURRED BY THE UTILITY COMPANY INTO BID. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AS REQUIRED BY THE LOCAL AUTHORITIES FOR SERVICE INSTALLATION. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF LOCAL AUTHORITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH TELECOMMUNICATIONS AND CABLE TELEVISION SERVICE PROVIDERS TO FACILITATE AND SCHEDULE INSTALLATION OF SERVICES. CONTRACTOR SHALL COORDINATE WITH OWNED FOR SERVICE PROVIDER CONTACT. THE OWNER SHALL BE RESPONSIBLE FOR ALL COSTS, CHARGES, FEES, ETC. INCURRED BY SERVICE PROVIDERS. PROVIDE ALL MATERIALS AS REQUIRED BY LOCAL AUTHORITIES FOR SERVICE INSTALLATION. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF LOCAL AUTHORITIES.
- ALL SITE ELECTRICAL INSTALLATIONS AND CONSTRUCTION SHALL BE PER THE MOST RECENT REVISIONS OF THE NATIONAL ELECTRIC SAFETY CODE (NEC) AND THE NATIONAL ELECTRIC CODE (NEC) STANDARDS AND SPECIFICATIONS.
- COORDINATE ALL TRANSFORMER LOCATIONS WITH OTHER UTILITIES INDICATED ON CIVIL PLANS.
- REFER TO CIVIL PLANS FOR ALL SITE SANITARY SEWER WORK.

SITE UTILITIES SYMBOLS:

— OHE —	OVERHEAD ELECTRIC
--- UGPE ---	UNDERGROUND PRIMARY ELECTRIC
--- UGSE ---	UNDERGROUND SECONDARY ELECTRIC
--- UGT ---	UNDERGROUND TELECOMMUNICATIONS
--- UGC ---	UNDERGROUND CABLE TV



CJD LLC
Engineering | Energy | Innovation
2225 West Chesterfield Boulevard, Suite 200, Springfield, MO 65807
P: 417.877.1700 F: 417.324.7735 www.cjd-eng.com
Missouri State Certificate of Authority #2005026903

Special Notice: Drawings prepared by CJD LLC are instruments of service for use solely with respect to this project. CJD LLC retains ownership and all common law, statutory law and other reserved rights including copyrights. This drawing shall not be reused in part or in full for any other work without prior written consent by CJD and appropriate compensation to CJD LLC. Whenever changes to the design without prior written approval from CJD LLC, those are at their own risk and CJD LLC shall not be responsible for any damages, liabilities or costs resulting directly or indirectly from such changes to the fullest extent of the law.

TORGERSON
DESIGN PARTNERS
ARCHITECTURE / INTERIOR DESIGN / LANDSCAPE ARCHITECTURE

7 BREW COFFEE
LEE'S SUMMIT, MO



ENGINEER OF RECORD:
NAME: RYAN JONES
LICENSE NO. PE-2004017193
PROJECT NUMBER:
21334 7BSM
REVISION:

SU1.1
SITE UTILITIES
PLAN
DATE: APRIL 26, 2022

116 NORTH 2ND AVENUE - OZARK, MO 65721 - P (417) 581-8889
F (417) 581-9002
ARCHITECTURAL CORPORATION MISSOURI LICENSE NUMBER: A-2010011427

1410 NE DOUGLAS STREET
LEE'S SUMMIT, MO 64086

TUBE ARCHITECTURAL DS-WS05
LED Wall Mounts



Fixture Type:
Catalog Number:
Project:
Location:

PRODUCT DESCRIPTION
The latest energy efficient LED technology in an appealing cylindrical profile delivers accent and wall wash lighting. Comes in various light distribution and beam angle options.

FEATURES

- High performance exterior rated LED wall mount light
- Fixture can install upside down to alter light distribution
- Solid aluminum construction
- 5 year warranty

SPECIFICATIONS

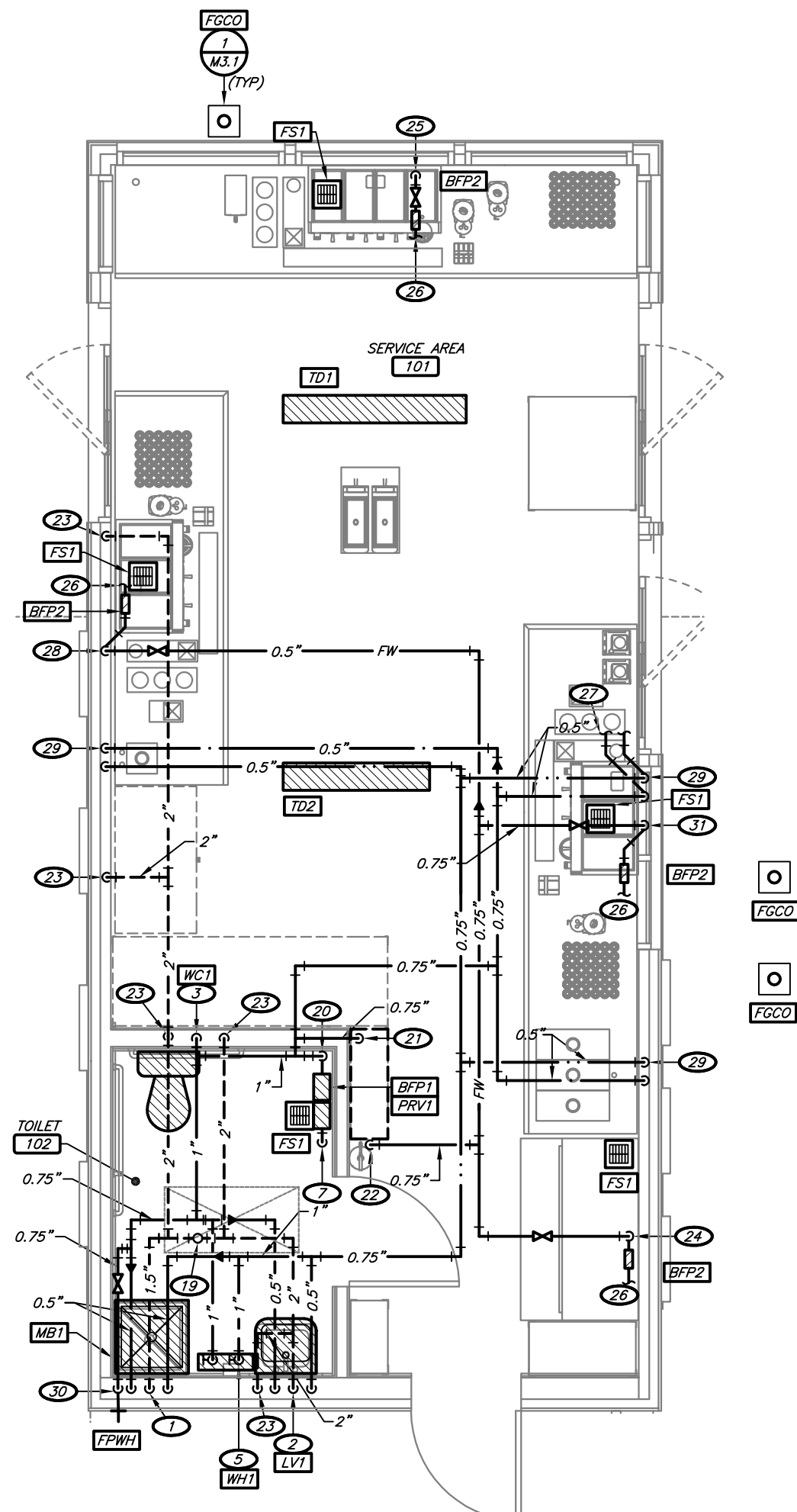
Input: Universal voltage 120V-277VAC, 50/60Hz
Dimming: Electronic low voltage (ELV): 100%-5%
0-10V, 0-5V, 1-5V

Light Sources: High output 3 Step Mac Adam Ellipse COB
Rated life of 60,000 hours at L70

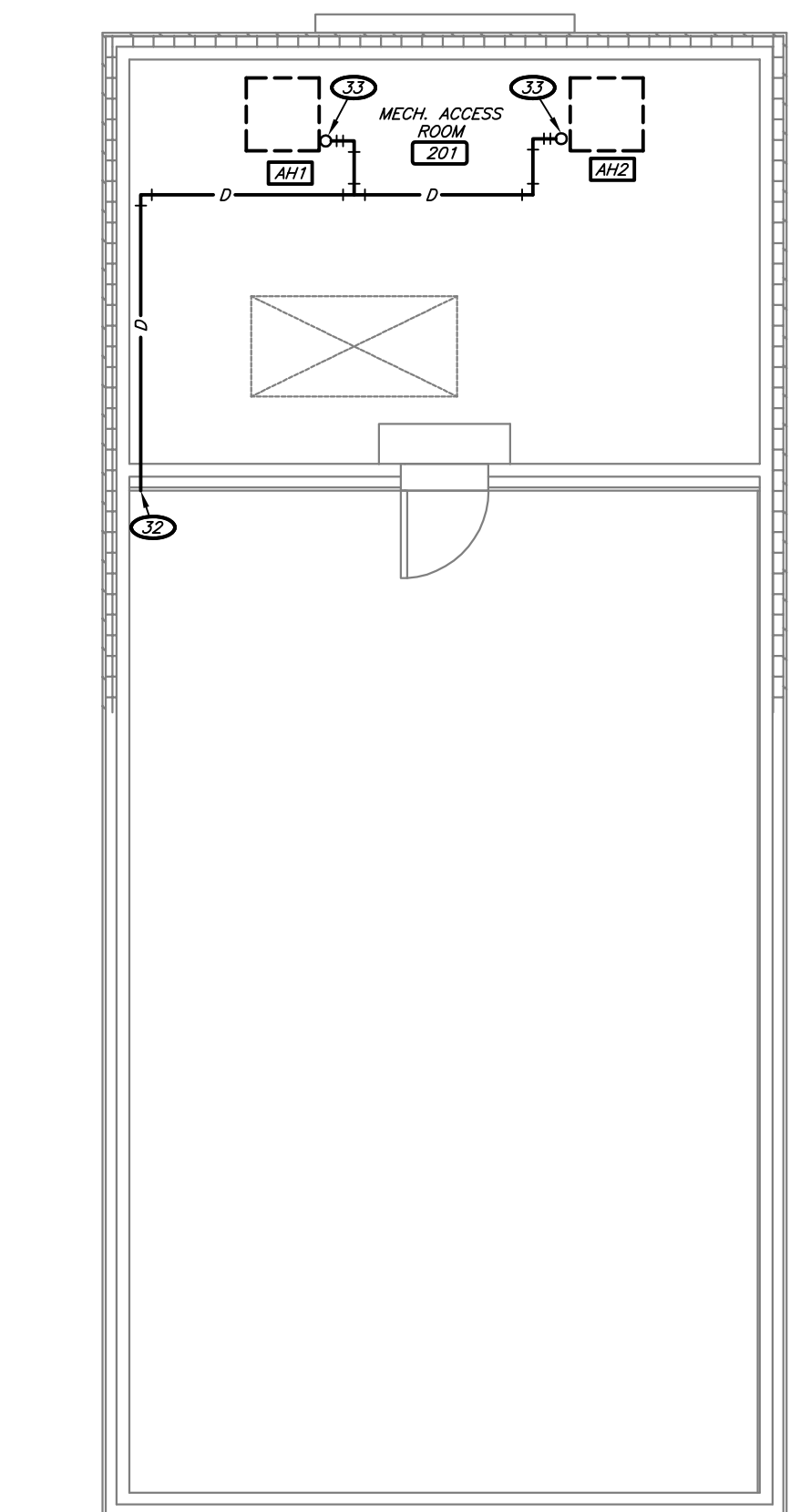
Finish: Electrostatically powder coated, white, black, bronze and graphite
Standards: IP65 rated, ETL & ETL-vert location listed
Energy Star: 2.2 rated, Title 24 (AS 2008) Compliant

Operating Temp: 13°F to 122°F (-20°C to 50°C)

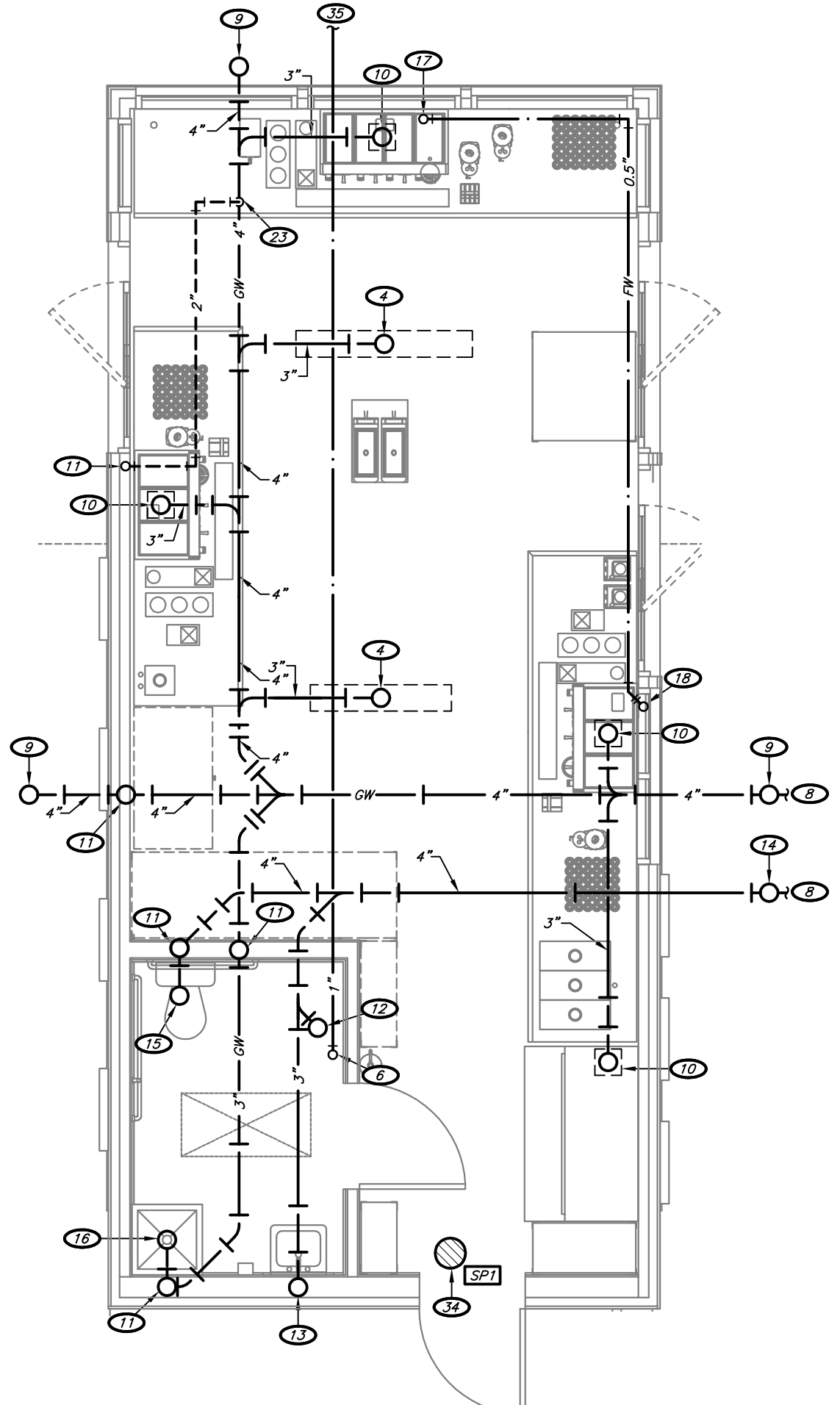
ORDERING NUMBER		Beam	Beam Angle	Color Temp	CRI	Reference Output Lumen	Output lm/cw	Efficiency lm/w	Light Distribution	Finish
DS-WS05	5° 250°	Straight up or down	1975	2700K	90	1620	100.0	70		Black White Brass Gun
		1975	2700K	90	1620	100.0	70			
		1975	2700K	90	1620	100.0	70			
		1975	2700K	90	1620	100.0	70			
		1975	2700K	90	1620	100.0	70			
DS-WS05	10° 170°	Straight up or down	1975	2700K	90	1620	100.0	70		Black White Brass Gun
		1975	2700K	90	1620	100.0	70			
		1975	2700K	90	1620	100.0	70			
		1975	2700K	90	1620	100.0	70			
		1975	2700K	90	1620	100.0	70			
DS-WS05	15° 110°	Straight up or down	1975	2700K	90	1620	100.0	70		Black White Brass Gun
		1975	2700K	90	1620	100.0	70			
		1975	2700K	90	1620	100.0	70			
		1975	2700K	90	1620	100.0	70			
		1975	2700K	90	1620	100.0	70			
DS-WS05	20° 70°	Straight up or down	1975	2700K	90	1620	100.0	70		Black White Brass Gun
		1975	2700K	90	1620	100.0	70			
		1975	2700K	90	1620	100.0	70			
		1975	2700K	90	1620	100.0	70			
		1975	2700K	90	1620	100.0	70			



2 GROUND LEVEL PLUMBING PLAN
1/4" = 1'-0"



3 ROOF AND ATTIC PLUMBING PLAN
1/4" = 1'-0"



1 UNDERSLAB PLUMBING PLAN
1/4" = 1'-0"



GREASE INTERCEPTOR CALCULATION
VOLUME OF 3-COMPARTMENT SINK: 7800 CUBIC IN.
VOLUME OF MOP BASIN: 3760 CUBIC IN.
VOLUME OF RINSER SINK: 770 CUBIC IN.
VOLUME OF RINSER SINK: 1000 CUBIC IN.
VOLUME OF RINSER SINK: 770 CUBIC IN.
TOTAL: 16100 CUBIC IN.
— CONVERSIONS TO GALLONS: 70 GALLONS
GREASE INTERCEPTOR IS SIZED FOR 75-GPM.

KEYNOTES:

- 1.5" VENT, 0.5" HOT AND COLD WATER DOWN TO MOP BASIN.
- 1.5" VENT, 0.5" HOT AND COLD WATER DOWN TO LAVATORY.
- 0.5" COLD WATER DOWN TO WATER CLOSET.
- 3" TRAPPED GREASE WASTE UP TO TRENCH DRAIN.
- 1" HOT AND COLD WATER DOWN TO TANKLESS WATER HEATER.
- 1" WATER SERVICE UP. REFER TO 2/M1.1 FOR CONTINUATION.
- 1" WATER SERVICE DOWN. REFER TO 1/M1.1 FOR CONTINUATION.
- REFER TO SU1.1 DRAWINGS FOR CONTINUATION.
- 4" GREASE WASTE UP TO FINISH GRADE CLEANOUT.
- 3" TRAPPED GREASE WASTE UP TO FLOOR SINK.
- 2" VENT UP.
- 3" TRAPPED WASTE UP TO FLOOR SINK.
- 2" WASTE UP TO LAVATORY.
- 4" WASTE UP TO FINISH GRADE CLEANOUT.
- 4" WASTE UP TO WATER CLOSET.
- 3" TRAPPED GREASE WASTE UP TO MOP BASIN.
- 0.5" FILTERED WATER UP TO BEVERAGE EQUIPMENT.
- 0.5" FILTERED WATER UP.
- 2" VENT UP TO 3" VENT THROUGH ROOF.
- 1" COLD WATER DOWN TO BACKFLOW PREVENTER AND PRESSURE REDUCING VALVE.
- 0.75" COLD WATER DOWN TO WATER FILTER. COORDINATE CONNECTION REQUIREMENTS WITH EQUIPMENT PROVIDER.
- 0.75" FILTERED WATER DOWN TO WATER FILTER. COORDINATE CONNECTION REQUIREMENTS WITH EQUIPMENT PROVIDER.
- 2" VENT DOWN.
- PROVIDE 0.5" FILTERED WATER WITH SHUT-OFF VALVE TO ICE MAKER WITH BACKFLOW PREVENTER. PROVIDE 0.75" INDIRECT DRAIN FROM ICE-MAKER TO FLOOR SINK AS REQUIRED.
- 0.5" FILTERED WATER DOWN.
- CONNECT FILTERED WATER PIPING TO KITCHEN EQUIPMENT. PROVIDE BACKFLOW PREVENTER AS REQUIRED.
- 0.5" HOT AND COLD WATER ROUTED IN OWNER PROVIDED COUNTER TO SINK.
- PROVIDE 0.5" FILTERED WATER WITH SHUT-OFF VALVE TO ESPRESSO MAKER WITH BACKFLOW PREVENTER.
- 0.5" HOT AND COLD WATER DOWN TO SINK. TERMINATE WASTE PIPING AT ADJACENT FLOOR SINK.
- 0.75" COLD WATER DOWN TO FREEZE-PROOF WALL HYDRANT.
- 0.75" COLD WATER DOWN. TEE OFF 0.5" FILTERED WATER WITH SHUT-OFF VALVE TO ESPRESSO MAKER WITH BACKFLOW PREVENTER. CONTINUE 0.5" FILTERED WATER UNDERSLAB. REFER TO 1/M1.1 FOR CONTINUATION. SHOWN OFF-SET FOR CLARITY.
- CONDENSATE SHALL PENETRATE THROUGH WALL AND DISCHARGE ONTO ROOF SURFACE.
- CONDENSATE UP TO AIR HANDLER.
- COORDINATE SUMP PUMP LOCATION WITH OWNER.
- REFER TO CIVIL DRAWINGS FOR CONTINUATION.

PLUMBING SYMBOLS:

- GW GREASE WASTE PIPING BELOW SLAB
- GW GREASE COMBINATION WASTE AND VENT PIPING
- GW GREASE WASTE PIPING ABOVE SLAB
- GW GREASE COMBINATION WASTE AND VENTING PIPING ABOVE SLAB
- RD ROOF DRAIN PIPING ABOVE SLAB
- ORD OVERFLOW ROOF DRAIN PIPING ABOVE SLAB
- ORD SANITARY WASTE PIPING BELOW SLAB
- SW SANITARY COMBINATION WASTE AND VENT PIPING
- SW SANITARY WASTE PIPING ABOVE SLAB
- SW SANITARY COMBINATION WASTE AND VENT PIPING ABOVE SLAB
- FW DOMESTIC COLD WATER PIPING
- FW DOMESTIC FILTERED COLD WATER PIPING
- FW DOMESTIC HOT WATER PIPING
- D PLUMBING VENT PIPING
- D CONDENSATE DRAIN PIPING
- D SHUT-OFF VALVE
- UNION
- TEE / ELBOW DOWN WITH VALVE IN VERTICAL PIPE
- FREEZEPROOF WALL HYDRANT / HOSE BIBB
- BACKFLOW PREVENTER
- FLOOR DRAIN / FLOOR SINK
- FINISH GRADE CLEANOUT
- FINISH FLOOR CLEANOUT



7 BREW COFFEE
LEE'S SUMMIT, MO

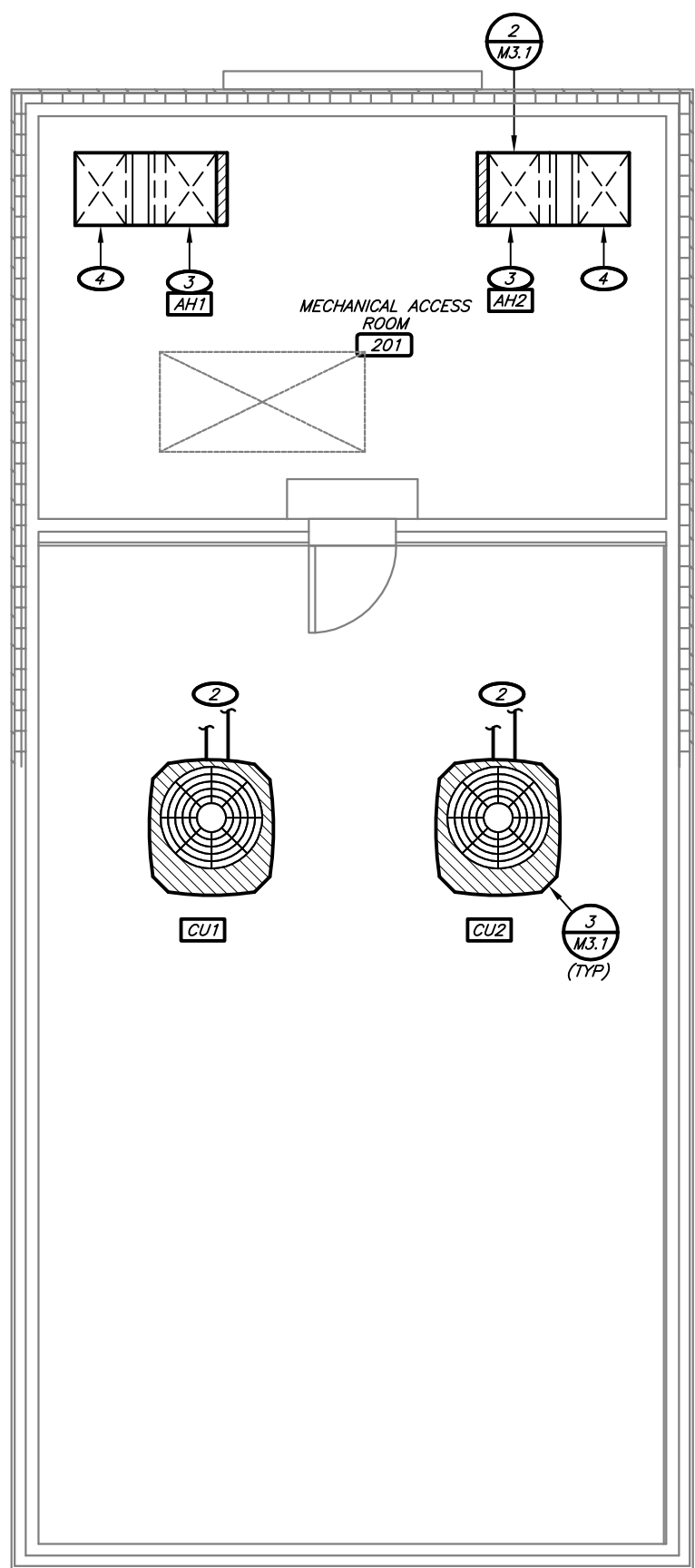


ENGINEER OF RECORD:
NAME: RYAN JONES
LICENSE NO. PE-2004017193
PROJECT NUMBER:
21334 7BSM
REVISION:

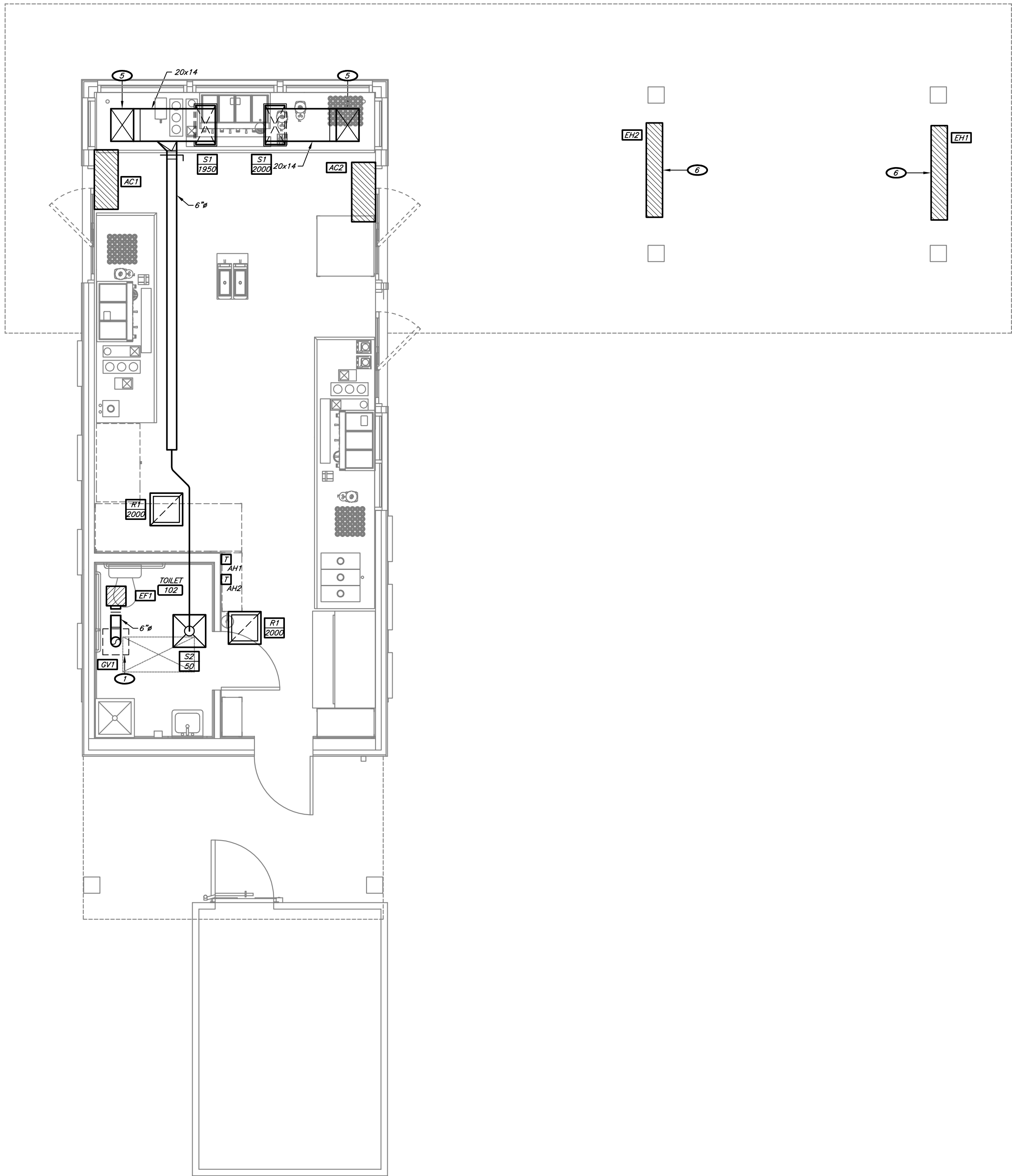
M1.1
PLUMBING PLAN

DATE: APRIL 26, 2022

CJD LLC
Engineering | Energy | Innovation
2225 West Chesterfield Boulevard, Suite 200, Springfield, MO 65807
P: 417.877.1700 P: 417.324.7735 www.cjd-eng.com
Missouri State Certificate of Authority #2005026903
Special Notice: Drawings prepared by CJD LLC are instruments of service for use solely with respect to this project. CJD LLC retains ownership and all common law, statutory and other reserved rights including copyrights. This drawing shall not be re-used in part or in full for any other work without prior written consent by and appropriate compensation to CJD LLC. Whenever changes to the design without prior written approval from CJD LLC, those in all their own and assumed full responsibility for any damages, liabilities or costs resulting directly or indirectly from such changes to the fullest extent of the law.



2 PARTIAL ROOF AND ATTIC HVAC PLAN
1/4" = 1'-0"
NORTH



1 GROUND LEVEL HVAC PLAN
1/4" = 1'-0"
NORTH

KEYNOTES:

6" EXHAUST DUCT UP TO GRAVITY VENTILATOR (WITH 8" CURB).

PROVIDE REFRIGERANT LINE ASSOCIATED AIR HANDLER. SIZE AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

20x14 SUPPLY DOWN TO AIR HANDLER TRANSITION AS REQUIRED AND PROVIDE FLEXIBLE CONNECTION. 20x16 RETURN DUCT UP TO BOTTOM OF AIR HANDLER FROM BELOW TRANSITION TO UNIT AS REQUIRED.

20x14 SUPPLY DOWN. REFER TO 1/M2.1 FOR CONTINUATION.

20x14 SUPPLY UP. REFER TO 2/M2.1 FOR CONTINUATION.

ELECTRIC HEATER. COORDINATE MOUNTING HEIGHT WITH OWNER.

HVAC SYMBOLS:

FLEXIBLE DUCTWORK

CEILING RETURN/EXHAUST GRILLE

CEILING SUPPLY DIFFUSER

TEMPERATURE SENSOR

DUCTWORK (WIDTH/HEIGHT) WITH DAMPER

FLEXIBLE CONNECTION

DIFFUSER TYPE AND CFM

RECTANGULAR TO ROUND TAKE-OFF

TORGERSON

DESIGN PARTNERS

ARCHITECTURE / INTERIOR DESIGN / DEVELOPMENT

116 NORTH 2ND AVENUE - OZARK, MO 65721 - P (417) 581-8889
F (417) 581-9002
ARCHITECTURAL CORPORATION MISSOURI LICENSE NUMBER: A-2010011427

7 BREW COFFEE
LEE'S SUMMIT, MO

1410 NE DOUGLAS STREET
LEE'S SUMMIT, MO 64086



ENGINEER OF RECORD:
NAME: RYAN JONES
LICENSE NO. PE-2004017193
PROJECT NUMBER:
21334 7BSM
REVISION:

CJD LLC

Engineering | Energy | Innovation
2225 West Chesterfield Boulevard, Suite 200, Springfield, MO 65807
P: 417.877.1700 P: 417.324.7735 www.cjd-eng.com
Missouri State Certificate of Authority #2005026903

Special Notice:

Drawings prepared by CJD LLC are instruments of service for use solely with respect to this project. CJD LLC retains ownership and all common law, statutory and other reserved rights including copyrights. This drawing shall not be reused in part or in full for any other work without prior written consent by and appropriate compensation to CJD LLC. Whenever changes to design without prior written approval from CJD LLC, those in all their own and assumed full responsibility for any damages, liabilities or costs resulting directly or indirectly from such changes to the fullest extent of the law.

M2.1
HVAC PLAN

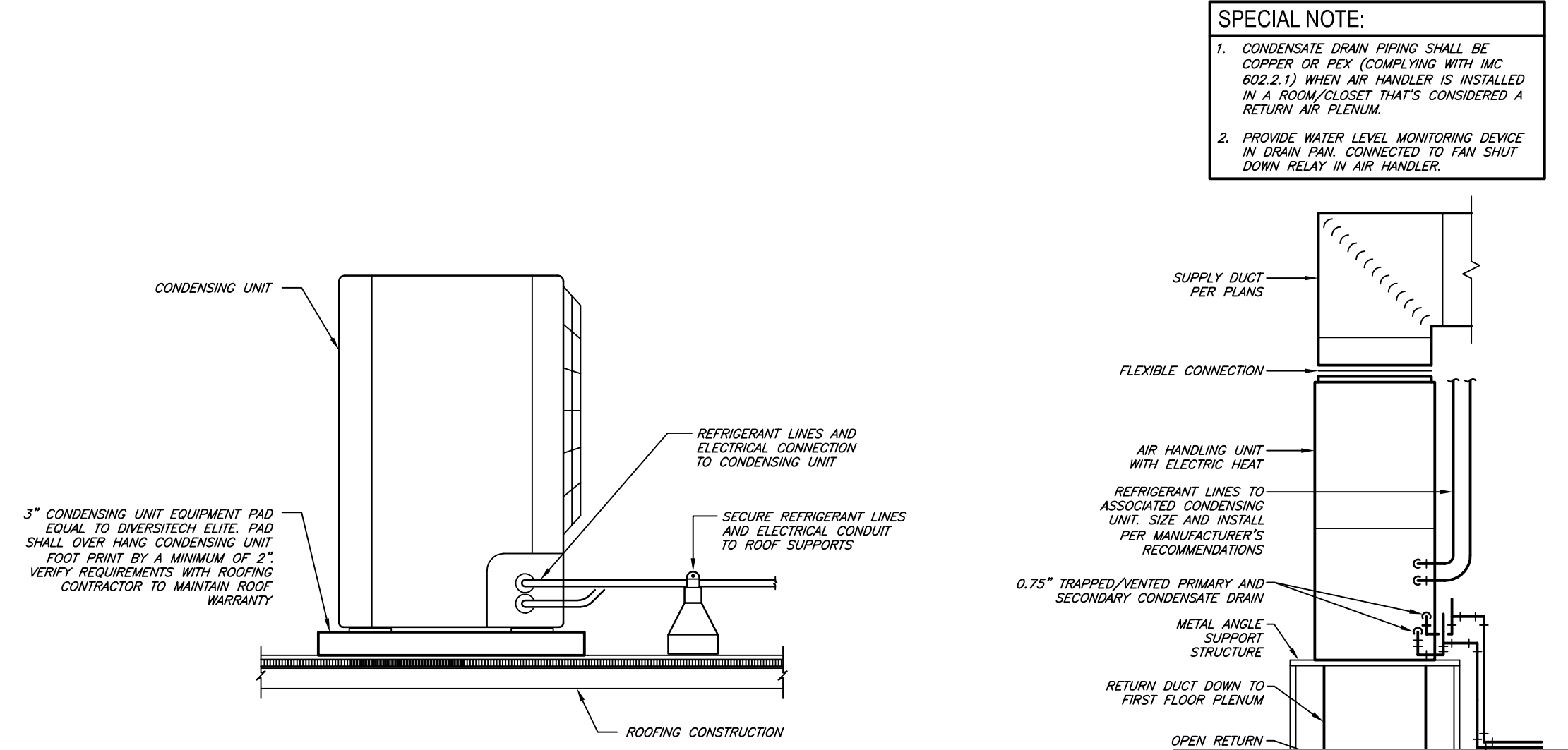
DATE: APRIL 26, 2022

PIPING MATERIAL SCHEDULE													
SYSTEM	PIPING					FITTINGS		MAXIMUM WORKING		FIELD TEST		NOTES	
	SIZE	TYPE	SCHEDULE	GRADE	ASTM	MATERIAL	MATERIAL	TYPE	PRESSURE (PSI)	TEMP (DEG F)	PRESSURE (PSI)		TIME (HOURS)
DOMESTIC WATER ABOVE AND BELOW GRADE	0.5"-2"	PEX	-	-	A877	PEX	BRONZE	MJ	120	40-180	150	1	-
GREASE WASTE AND VENT ABOVE GRADE	ALL	DWV	40	-	2665	PVC	PVC	DR/SW	10 FT	50-180	10 FT	1	1
GREASE WASTE BELOW GRADE	ALL	DWV	40	-	2665	PVC	PVC	DR/SW	10 FT	50-180	10 FT	1	1
SANITARY WASTE BELOW GRADE	ALL	DWV	40	-	2665	PVC	PVC	DR/SW	10 FT	50-180	10 FT	1	1
SANITARY WASTE & VENT ABOVE GRADE	ALL	DWV	40	-	2665	PVC	PVC	DR/SW	10 FT	50-180	10 FT	1	1
TEMPERATURE & PRESSURE RELIEF DRAIN	ALL	M	-	-	B88	COPPER	COPPER	DR/SJ	10 FT	40-70	10 FT	1	-
NOTES:													
1. USE OF CELLULAR CORE DWV PIPING IS STRICTLY PROHIBITED.													
ABBREVIATIONS:													
CJ	- CAST IRON	DR	- DRAINAGE FITTING			NH	- NO-HUB						
CS	- CARBON STEEL	DWV	- DRAINAGE WASTE AND VENT			SJ	- 95-5 TIN-ANTIMONY SOLDER JOINT						
CW	- CONTINUOUS WELD	MJ	- MALLEABLE IRON			SS	- STANDARD STRENGTH / SERVICE WEIGHT						
DI	- DUCTILE IRON	MJ	- MECHANICAL JOINT			SW	- SOLVENT WELD						

PLUMBING FIXTURE & EQUIPMENT SCHEDULE										
MARK	DESCRIPTION	MANUFACTURER	MODEL NUMBER	ACCESSORIES	PIPING CONNECTION SIZES				NOTES	EQUIVALENT MANUFACTURERS
					COLD WATER	HOT WATER	WASTE	VENT		
BFP1	BACK FLOW PREVENTER	WATTS	LF009	LEAD FREE BRONZE CONSTRUCTION, TWO IN LINE INDEPENDENT CHECK VALVES, REPLACEABLE CHECK SEATS WITH AN INTERMEDIATE RELIEF VALVE, AND BALL VALVE TEST COCKS	1"	-	-	-	-	FEBCO
BFP2	BACKFLOW PREVENTER	WATTS	SD-3	DUAL CHECK VALVE WITH ATMOSPHERIC PORT AND STRAINER FOR CARBONATED BEVERAGE MACHINES	0.5"	-	-	-	-	FEBCO
TD1	FLOOR DRAIN	-	-	CUSTOM STAINLESS STEEL TRENCH DRAIN BY OWNER	-	-	SEE PLAN	SEE PLAN	2	ZURN
TD2	FLOOR DRAIN	-	-	CUSTOM STAINLESS STEEL TRENCH DRAIN BY OWNER	-	-	SEE PLAN	SEE PLAN	2	ZURN
FGCO	FINISH GRADE CLEANOUT	ZURN	ZN1400-HD	-	-	-	SEE PLAN	-	-	SIOUX CHIEF, SMITH, WAGE
FPWH	FREEZE-PROOF WALL HYDRANT	JAY R. SMITH	#5609	NICKEL BRONZE-FACE, KEY OPERATED, INTEGRAL VACUUM BREAKER	0.75"	-	-	-	3	SMITH, WOODFORD
FS1	FLOOR SINK	JAY R. SMITH	#3161	CAST IRON RECEPTOR, A.R.E. INTERIOR 12"x12" NICKEL BRONZE STRAINER, SEDIMENT BUCKET	-	-	3"	SEE PLAN	1	-
GI1	GREASE INTERCEPTOR	SCHIER	GB-75	75 GPM, 125 GALLON CAPACITY, 616 lbs. GREASE CAPACITY, PEDESTRIAN RATED COVER, PROVIDE 24" COVER RISER.	-	-	4"	-	-	SUBMIT FOR APPROVAL
LV1	WALL HUNG ADA LAVATORY	AMERICAN STANDARD	#355.012	#2385.130 FAUCET, WITH SINGLE METAL LEVER HANDLE #723.018, 1.25" TALLPIPE AND TRAP, SUPPLIES AND STOP VALVES, INSULATE WITH PROWRAP SEAMLESS MOLDED CLOSED CELL VINYL INSULATION, PROVIDE WATTS LF0566 MIXING VALVE.	0.5"	0.5"	2"	1.5"	1,3	CRANE, KOHLER, TOTO, ZURN
MB1	MOP BASIN	FIAT	MSB-2424	830-AA FAUCET, 839-AA HOSE AND BRACKET, 889-CC MOP HANGER, MSG2424 WALL GUARD	0.5"	0.5"	3"	1.5"	1	STERN WILLIAMS
PRV1	PRESSURE REDUCING VALVE	CASH ACME	EB25	SET TO MAX DELIVERY PRESSURE OF 80-PSI	SEE PLAN	-	-	-	-	FEBCO, WILKINS
WC1	ADA FLUSH TANK WATER CLOSET	AMERICAN STANDARD	2467.016	1.6 GALLON FLUSH, 16.5" HIGH ELONGATED BOWL, FLOOR MOUNTED, TANK TYPE, VITREOUS CHINA, OPEN FRONT SEAT WITH CHECK HINGE AND LEVER COVER, CHROME PLATED ANGLE STOP AND RISER, HANDLE ON WIDE SIDE OF FIXTURE.	0.5"	-	4"	2"	1,4	ELIJER, KOHLER, TOTO
NOTES: 1. ACCESSORIES SHALL BE SAME MANUFACTURER AS FIXTURE / EQUIPMENT UNLESS NOTED OTHERWISE. 2. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT. 3. INSTALL ACCESSORIES AS RECOMMENDED BY MANUFACTURER FOR ADA COMPLIANCE. 5. FIELD COORDINATE/VERIFY FRAMING ROUGH-IN DIMENSIONS WITH ASSOCIATED CONTRACTOR BEFORE ORDERING. 6. PROVIDE WALL CARRIER OR BRACKET AS RECOMMENDED BY MANUFACTURER FOR WALL MOUNTED INSTALLATION.										

PUMP SCHEDULE																	
MARK	MANUFACTURER	SERIES	INLET	DISCH.	GPM	HEAD (FT.)	NPSH	TYPE	WORKING CLASS	H.P.	RPM	VOLTAGE/ PHASE	CONST.	FLUID TYPE	FLUID TEMP.	NOTES/ ACCESS.	EQUIVALENT MANUFACTURERS
SP1	ZOELLER	1043-0006	-	1"	35	20	-	SUMP	-	1/3	-	115V	CI	WATER	40-140	1	LITTLE GIANT, WEIL
NOTES/ACCESSORIES:																	
1. PROVIDE ZOELLER 30-0152 CHECK VALVE INSTALLED ON PUMP DISCHARGE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.																	
ABBREVIATIONS:																	
NPSH - NET POSITIVE SUCTION HEAD			CDW - CONDENSER WATER			BCFI - BRONZE FITTED CAST IRON			AS - AQUASTAT KIT								
HW - HEATING HOT WATER			AB - ALL BRONZE			BSES - BASE MOUNTED END SUCTION			IL - IN-LINE								
CHW - CHILLED/HOT WATER			DHW - DOMESTIC HOT WATER			AI - ALL IRON											

WATER HEATER SCHEDULE								
MARK	MANUFACTURER	MODEL #	TYPE	GALLON CAPACITY	RECOVERY GPM @ 85F	KW	VOLTAGE/ PHASE	ACCESSORIES
WH1	RHEEM	RTEX-18	ELEC	-	-	18.0	240V	1,2,3
ACCESSORIES:								
1. THERMAL EXPANSION TANK EQUIVALENT TO AMTROL MODEL ST-5								
2. DRAIN VALVE WITH THREADED HOSE CONNECTION								
3. PRESSURE & TEMPERATURE RELIEF VALVE								



3 ROOF MOUNTED CONDENSING UNIT DETAIL
NO SCALE

GRAVITY VENTILATOR SCHEDULE										
MARK	MANUFACTURER	MODEL #	SERVICE	CFM	DELTA P (STATIC)	THROAT AREA MIN (SQ.FT.)	FACE AREA MIN (SQ.FT.)	FACE VELOCITY (FPM)	NOTES AND ACCESSORIES	
GV1	COOK	PR8	EXHAUST	75	0.1"	0.394	1.38	54.3	1,2,3,4	
NOTES AND ACCESSORIES: 1. FACTORY FABRICATED INSULATED ROOF CURB WITH CUSTOM HEIGHT OF 14" MINIMUM ABOVE FINISH ROOF SURFACE. 2. PROVIDE COUNTER BALANCE BACKDRAFT DAMPER. 3. PROVIDE ANTI-CONDENSATE COATING. 4. PROVIDE BIRD SCREEN.										

AIR HANDLER/COIL/CONDENSING UNIT SCHEDULE												
AIR HANDLER												
MARK	MANUFACTURER	MODEL #	SA (CFM)	OA (CFM)	EXTERNAL STATIC	ELEC HEAT (KW/STAGES)	VOLTAGE/ PHASE	MCA	MOCP	NOTES		
AH1	OMNIGUARD	BCSE60	1810	-	0.5"	14.4/1	240/1	96	100	1,2,3,4,5		
AH2	OMNIGUARD	BCSE60	1810	-	0.5"	14.4/1	240/1	96	100	1,2,3,4,5		
AIR HANDLER NOTES: 1. EXTERNAL STATIC PRESSURE INCLUDES WET COIL, EXCLUDES FILTER LOSS. 2. PROVIDE FRONT ACCESSIBLE FILTER RACK AND 2" FILTER EQUAL TO FARR 3030 WITH MERV 7 MINIMUM RATING. 3. PROVIDE SINGLE POINT POWER CONNECTION WITH CIRCUIT BREAKER DISCONNECTING MEANS. 4. PROVIDE ENERGY STAR RATED 7 DAY PROGRAMMABLE THERMOSTAT 5. PROVIDE WATER LEVEL MONITORING DEVICE IN DRAIN CONNECTED TO FAN SHUT DOWN RELAY IN AIR HANDLER.												
COIL / CONDENSING UNIT												
MARK	MANUF	EVAP. COIL MODEL #	COND. UNIT MODEL #	ENTERING AIR DEW/BW	SENSIBLE MBH	TOTAL MBH	VOLTAGE/ PHASE	MCA	MOCP	NOTES		
CU1	OMNIGUARD	WI-AHU	4AC16L60P-50	80 / 67	45.4	60.5	240V	29.6	50	1,2,3		
CU2	OMNIGUARD	WI-AHU	4AC16L60P-50	80 / 67	45.4	60.5	240V	29.6	50	1,2,3		
COIL / CONDENSING UNIT NOTES: 1. PROVIDE REFRIGERANT LINE SET(S) SIZED PER MANUFACTURER'S RECOMMENDATIONS. 2. PROVIDE ALL REFRIGERATION SYSTEM ACCESSORIES REQUIRED BY MANUFACTURER FOR GIVEN LINE SET ROUTING. 3. PROVIDE LOW AMBIENT CRANK CASE HEATER (10 DEG. F)												

AIR CURTAIN SCHEDULE												
MARK	MANUFACTURER	MODEL #	MOUNTING	HEATING (KW)	AMCA LAB AIRFLOW (SCFM)	NOZZLE WIDTH	MAX. VELOCITY @ NOZZLE (FPM)	VOLTAGE/ PHASE	MCA	MOCP	NOTES	
AC1	STRONGWAY	49947	WALL	-	816	36"	3,937	120V	2.9	15	1 THRU 8	
AC2	STRONGWAY	49947	WALL	-	816	36"	3,937	120V	2.9	15	1 THRU 8	
NOTES:												
1. PROVIDE FACTORY INSTALLED DISCONNECT.												
2. FACTORY INSTALLED UNIT MOUNTED CONTROLS WITH TWO SPEED CONTROL.												
3. MAGNETIC DOOR LMT SWITCH.												
4. FACTORY MOUNTED MOTOR CONTROL PANEL.												
5. CLEANABLE FILTER.												
6. FIELD COORDINATE EXACT MOUNTING REQUIREMENTS AND PROVIDE ALL REQUIRED ACCESSORIES												
7. UNIT SHALL BE RATED FOR OUTDOOR CONDITIONS												
8. COORDINATE FINISH WITH OWNER.												

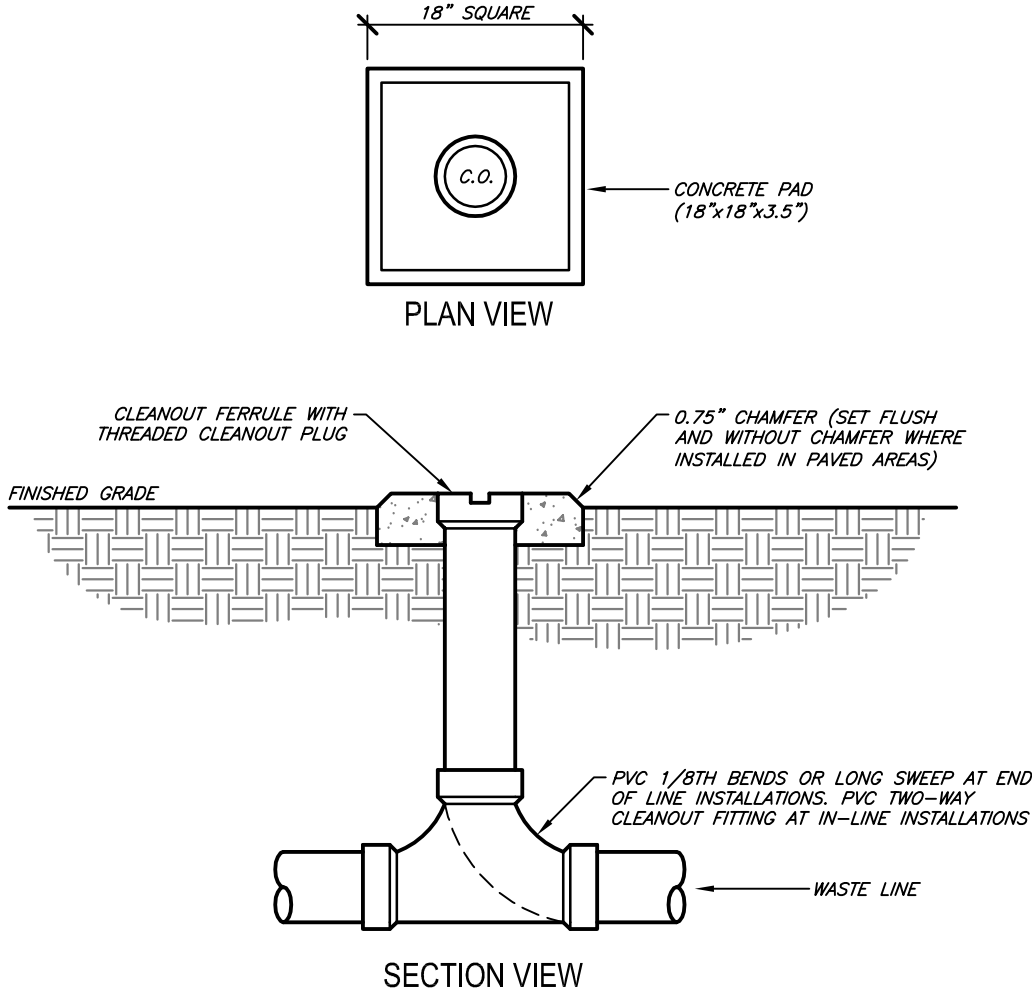
FAN SCHEDULE										
MARK	MANUFACTURER	MODEL #	CFM	ESP (IN. W.C.)	MOUNTING	FINISH	DAMPER	VOLTAGE/ PHASE	MOTOR HP/WATTS	NOTES
EFF	COOK	GC-146	75	0.25"	CEILING	STD	-	120V1	31W	1,2,3
NOTES: 1. FACTORY MOUNTED DISCONNECTING MEANS. 2. GRAVITY BACKDRAFT DAMPER. 3. PROVIDE BIRD SCREEN.										

ELECTRIC HEATER SCHEDULE										
MARK	MANUFACTURER	MODEL #	MOUNTING	FINISH	CFM	HEATING (WATTS)	VOLTAGE/ PHASE	MCA	MOCP	NOTES
EH1	INFRA TECH	CL3024SS	SUSPENDED	ARCH	-	3000	240V1	12.5	20	1
EH2	INFRA TECH	CL3024SS	SUSPENDED	ARCH	-	3000	240V1	12.5	20	1
EH3	INFRA TECH	CL3024SS	SUSPENDED	ARCH	-	3000	240V1	12.5	20	1
NOTES: 1. PROVIDE FACTORY MOUNTED DISCONNECTING MEANS.										

AIR DEVICE SCHEDULE												
MARK	MANUFACTURER	MODEL #	DUCT CONNECTION SIZE	SERVICE	MODULE SIZE	FRAME	FINISH	DAMPER	MAX. NC	THROW (FT)	DELTA P (STATIC)	NOTES
S1	OWNER PROVIDED		12x24: 0-2000 CFM	SUPPLY	-	SURFACE	WHITE	-	30	20	0.1"	-
S2	OWNER PROVIDED		6": 0-75 CFM	SUPPLY	-	SURFACE	WHITE	-	30	20	0.1"	-
R1	OWNER PROVIDED		22x22: 0-2000 CFM	RETURN	-	SURFACE	WHITE	-	30	-	0.1"	-
NOTES:												

SPECIAL NOTE:

- CONDENSATE DRAIN PIPING SHALL BE COPPER OR PEX (COMPLYING WITH IMC 602.2.1) WHEN AIR HANDLER IS INSTALLED IN A ROOM/CLOSET THAT'S CONSIDERED A RETURN AIR PLENUM.
- PROVIDE WATER LEVEL MONITORING DEVICE IN DRAIN PAN CONNECTED TO FAN SHUT DOWN RELAY IN AIR HANDLER.



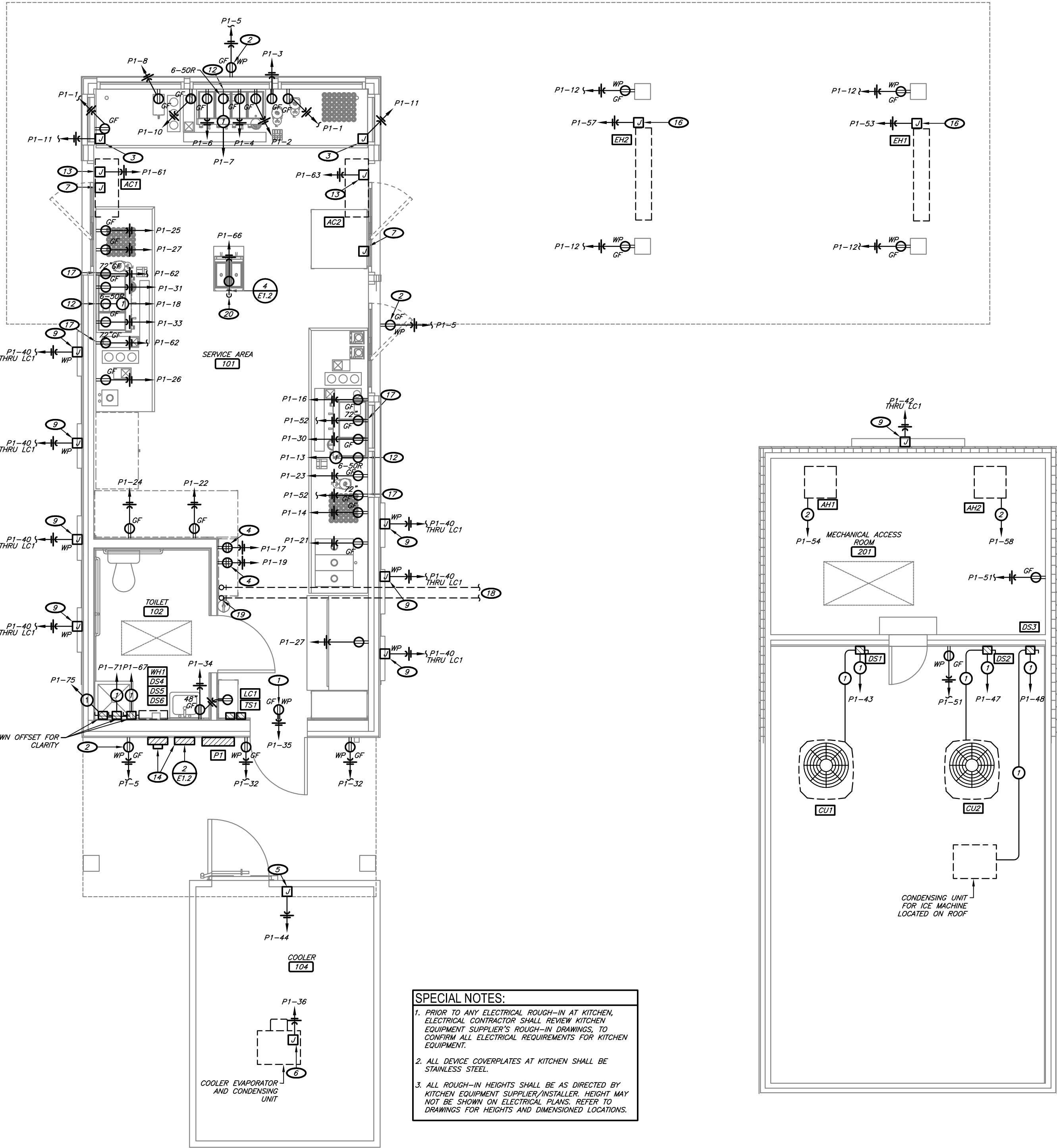
1 FINISH GRADE CLEANOUT DETAIL
NO SCALE

GENERAL MECHANICAL NOTES:

- GENERAL
- GENERAL MECHANICAL NOTES APPLY TO ALL MECHANICAL SHEETS.
 - CID ENGINEERING LLC, BEING THE AUTHOR OF THESE CONSTRUCTION DOCUMENTS, RESERVES THE RIGHT OF FINAL INTERPRETATION AS TO THEIR INTENT AND MEANING. ANY ADDITIONAL WORK OR COSTS RESULTING FROM THE CONTRACTOR'S OWN INTERPRETATION AS TO THE INTENT OR MEANING WITHOUT CONSULTATION WITH CID ENGINEERING LLC SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO COST TO OWNER OR A/E.
 - THE INTENT OF THE WORK INDICATED ON THESE CONSTRUCTION DOCUMENTS IS TO PROVIDE A FULLY FUNCTIONING SYSTEM IN COMPLETE WORKING ORDER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THE CONTRACTOR'S SUPPLIERS TO INCLUDE ALL ACCESSORIES, COMPONENTS, PARTS, ETC. THAT MAY NOT BE INDICATED ON THESE CONSTRUCTION DOCUMENTS TO PROVIDE BUILDING CODE COMPLIANT SYSTEMS AND EQUIPMENT THAT OPERATE SATISFACTORILY AS DESIGNED AND INTENDED.
 - DRAWINGS ARE NOT SET UP SPECIFICALLY ACCORDING TO TRADE AND EACH CONTRACTOR AND SUB-CONTRACTOR OR TRADE IS REQUIRED TO REVIEW THE CONSTRUCTION DOCUMENTS AS A WHOLE AND PROVIDE ANY MISC. ITEMS, MATERIALS, WORK, ETC. REQUIRED TO COMPLETE THE WORK AS SHOWN ON ALL DOCUMENTS. THIS REQUIREMENT APPLIES TO ALL TRADES: STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING REQUIREMENTS AND RELATED WORK ARE SHOWN THROUGHOUT THE DOCUMENTS AND SHOULD BE REVIEWED WITH EACH FOR OVERALL SCOPE OF WORK.
 - ALL MECHANICAL WORK SHALL BE PERFORMED BY LICENSED PLUMBING AND MECHANICAL CONTRACTORS AND SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF THE 2018 INTERNATIONAL BUILDING, PLUMBING, MECHANICAL, ELECTRICAL, AND PLUMBING, AND ALL APPLICABLE LOCAL CODES AS ADOPTED BY LOCAL AUTHORITIES.
 - THE CONTRACTOR SHALL INCLUDE ALL PERMIT AND INSPECTION FEES IN BID.
 - THE PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO CIVIL, STRUCTURAL, AND ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS FOR DIMENSIONS. FIELD VERIFY ALL DIMENSIONS.
 - PIPING AND DUCTWORK LAYOUTS ARE DIAGRAMMATIC. FIELD COORDINATE EXACT LOCATIONS AND ROUTINGS WITH STRUCTURE, LIGHT FIXTURES, CONDUITS, ETC. FINAL RESULT SHALL BE EQUIVALENT TO THAT INDICATED ON DRAWINGS.
 - COOPERATE CLOSELY WITH ALL OTHER TRADES TO EXPEDITE CONSTRUCTION AND AVOID INTERFERENCES AND CONFLICTS BEFORE ANY PIPING, DUCTWORK, CONDUIT, ETC. IS INSTALLED. IT SHALL BE COORDINATED CAREFULLY BETWEEN ALL TRADES.
 - MAINTAIN ALL CLEARANCES REQUIRED BY PLUMBING AND HVAC EQUIPMENT. COORDINATE WITH ELECTRICAL CONTRACTOR TO MAINTAIN ALL CLEARANCES REQUIRED FOR EQUIPMENT. DO NOT ROUTE PIPING, DUCTWORK, ETC. ABOVE ELECTRICAL PANELS.
 - DRAWINGS REPRESENT FINAL RESULT. REMOVE, RELOCATE, MODIFY EXISTING EQUIPMENT, DUCTWORK, PIPING, ETC. AS REQUIRED. FIELD VERIFY EXISTING CONDITIONS AND EXACT REQUIREMENTS. NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS.
 - IF CONTRACTOR WISHES TO INCORPORATE PRODUCTS OTHER THAN THOSE NAMED IN SPECIFICATIONS IN HIS BID OR PRODUCTS BY MANUFACTURERS OTHER THAN THOSE LISTED AS APPROVED MANUFACTURERS, THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST FOR REVIEW AND APPROVAL OF PROPOSED SUBSTITUTIONS TO CID ENGINEERING LLC NOT LESS THAN FIVE WORKING DAYS PRIOR TO BID DATE. APPROVAL OR ACCEPTANCE OF PROPOSED SUBSTITUTION OF MANUFACTURERS OR ITEMS IS FOR THE PURPOSES OF BIDDING ONLY AND DOES NOT RELIEVE THE PROPOSED SUBSTITUTION FROM THE SUBMITTAL/SHOP DRAWING REVIEW AND DOES NOT CONSTITUTE PRIOR APPROVAL OF PROPOSED SUBSTITUTIONS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COSTS OF LARGER WIRING, CONDUIT, ENCLOSURES, CONTROL, AND OVERCURRENT PROTECTIVE DEVICES, ETC. RESULTING FROM SUBSTITUTION OF EQUIPMENT OTHER THAN THAT WHICH WAS THE BASIS OF DESIGN AT NO COST TO OWNER OR A/E.
 - THE CONTRACTOR SHALL PROVIDE ELECTRIC SHOP DRAWINGS/SUBMITTALS OF ALL FIXTURES AND EQUIPMENT FURNISHED UNDER THIS CONTRACT.
 - THE CONTRACTOR SHALL PERFORM A PRELIMINARY FUNCTIONAL TEST AND BALANCE FOR ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT. THE CONTRACTOR SHALL THEN OBTAIN THE SERVICES OF AN INDEPENDENT FIRM CERTIFIED WITH ASSOCIATED AIR BALANCING COUNCIL OR NATIONAL ENVIRONMENTAL BALANCING BUREAU TO PERFORM THE HVAC SYSTEM TESTING AND BALANCING IN ACCORDANCE WITH ASHRAE OR NEBB NATIONAL STANDARDS.
 - THE CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT, ACCESSORIES, AND MATERIAL FURNISHED BY HIM FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE AGAINST ALL DEFECTS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING COSTS TO CUT, PATCH AND REPAIR EXISTING WALL, FLOOR AND CEILING CONSTRUCTION AS REQUIRED TO INSTALL NEW PLUMBING FIXTURES, DUCTWORK, EQUIPMENT, PIPING, ETC. ARE INCLUDED IN THE BID PRICE.

GENERAL MECHANICAL NOTES:

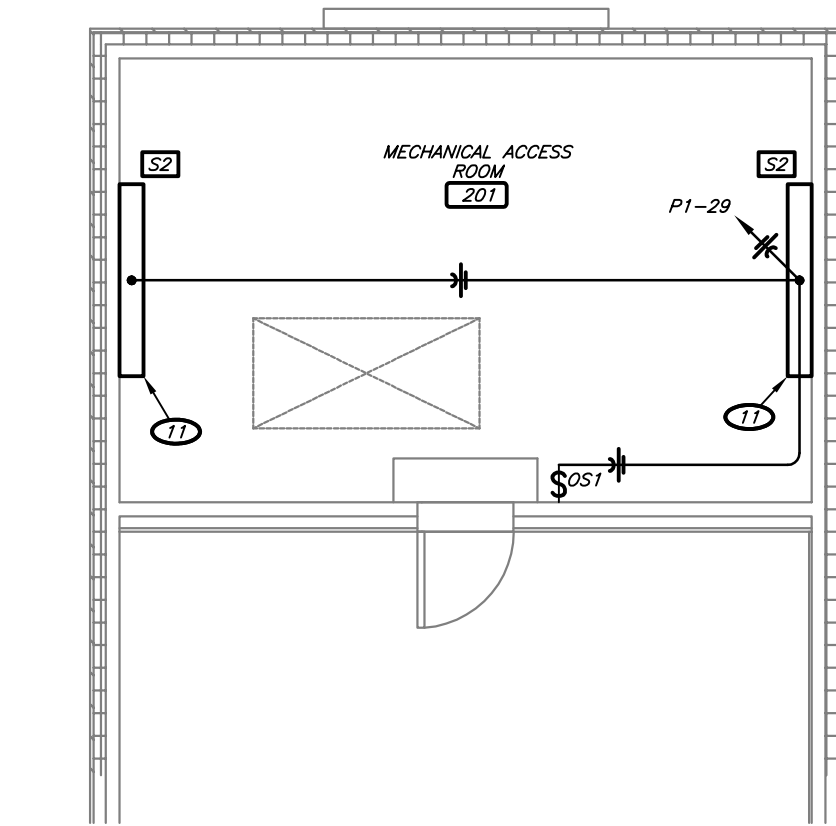
- PRODUCTS
- ALL SHUTOFF VALVES ON DOMESTIC WATER SHALL BE BRONZE FULL-PORT BALL VALVE TYPE.
 - P-TRAPS SHALL INCLUDE INTEGRAL CLEANOUT.
 - DUCT CONSTRUCTION:
ALL DUCTWORK SHALL BE FABRICATED OF G90 GALVANIZED STEEL AND INSTALLED IN ACCORDANCE WITH THE SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE MANUAL. ALL SUPPLY AND RETURN AIR DUCT PRESSURE CLASSES SHALL BE THE SAME AS THE EXTERNAL STATIC PRESSURE OF THE EQUIPMENT SUPPLYING THE DUCT. THE EQUIPMENT ESP SHALL BE THE PRESSURE CLASS FOR THE ENTIRE SUPPLY DUCT SYSTEM.
CONCEALED ROUND SUPPLY AIR DUCT - 3" PRESSURE CLASS OR LESS. GALVANIZED SNAP-LOCK PIPE WITH TRANSVERSE JOINTS AND CONNECTIONS SEALED. WRAP SUPPLY AND OUTSIDE AIR DUCTS WITH SPECIFIED INSULATION.
CONCEALED ROUND RETURN AND EXHAUST DUCT - 3" PRESSURE CLASS OR LESS. GALVANIZED SNAP-LOCK PIPE WITH TRANSVERSE JOINTS AND CONNECTIONS SEALED WITH SPECIFIED INSULATION.
RECTANGULAR SUPPLY AND RETURN AIR DUCT - 3" PRESSURE CLASS OR LESS. GALVANIZED SHEET METAL LINE SUPPLY, RETURN, OUTDOOR AIR AND MAKE-UP AIR DUCTWORK WITH SPECIFIED INSULATION.
FLEXIBLE DUCTWORK: FLEXMASTER USA TYPE BB, UL 181 CLASS 1 RATED PRE-INSULATED ACoustical FLEX DUCT WITH MECHANICAL LOCK HELIX CONSTRUCTION



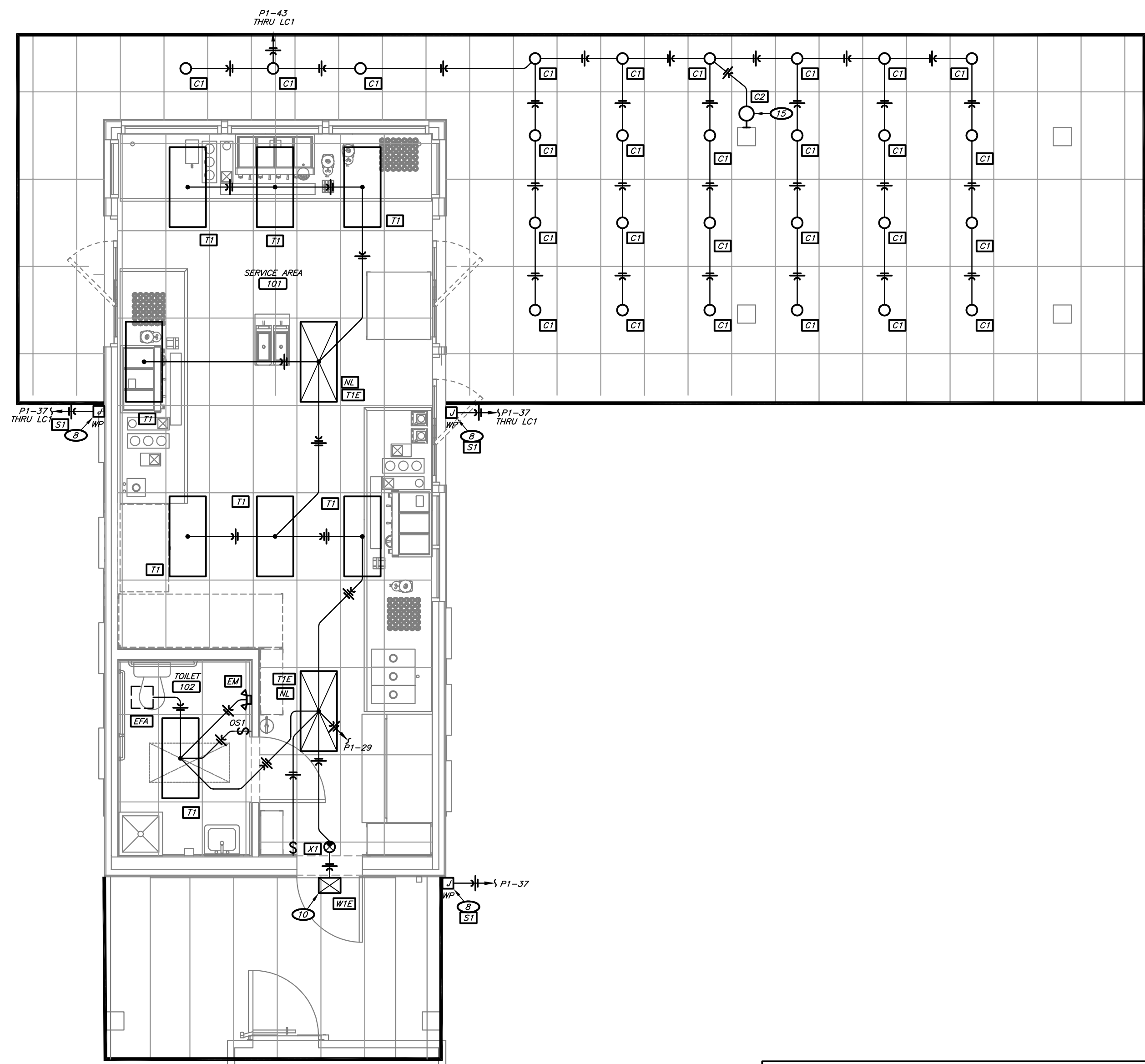
3 GROUND LEVEL POWER PLAN
1/4" = 1'-0"



2 ROOF AND ATTIC POWER PLAN
1/4" = 1'-0"



4 PARTIAL ROOF AND ATTIC LIGHTING PLAN
1/4" = 1'-0"



1 GROUND LEVEL LIGHTING PLAN
1/4" = 1'-0"



ELECTRICAL SYMBOLS:

- SIMPLEX RECEPTACLE; 2P, 3W, 20A, 125V
- 14-30 SIMPLEX RECEPTACLE; NEMA CONFIGURATION AS INDICATED
- 42" DUPLEX RECEPTACLE; 2P, 3W, 20A, 125V
- 42" DUPLEX RECEPTACLE; MOUNTED 6" ABOVE FINISHED FLOOR
- AC DUPLEX RECEPTACLE; MOUNTED 6" ABOVE COUNTERTOP BACKSPASH
- GF DUPLEX RECEPTACLE W/ GROUND FAULT INTERRUPTER
- WP DUPLEX RECEPTACLE; WEATHERPROOF
- DOUBLE DUPLEX RECEPTACLE WITH COMMON FACEPLATE
- TELECOMMUNICATIONS OUTLET; ROUGH-IN JUNCTION BOX OR PLASTER RING ONLY. MAY BE USED FOR VOICE, DATA, FAX, MODEM, OR ANY COMBINATION THEREOF. CABLE, COVER PLATE & JACKS PROVIDED BY OTHERS.
- CABLE TV OUTLET; ROUGH-IN JUNCTION BOX OR PLASTER RING ONLY. CABLE, COVER PLATE & JACKS PROVIDED BY OTHERS.
- EXIT LIGHT; WALL MOUNTED / CEILING MOUNTED
- EMERGENCY LIGHT
- EXIT/EMERGENCY LIGHT
- LED LIGHT FIXTURE
- NIGHT LIGHT FIXTURE
- LIGHT SWITCH
- 3-WAY LIGHT SWITCH
- OCCUPANCY SENSOR LIGHT SWITCH
- CEILING MOUNTED OCCUPANCY SENSOR
- JUNCTION BOX
- LIGHTING & POWER PANELBOARD
- CONDUIT CONCEALED IN CEILING OR WALL
- CONDUIT BELOW GRADE
- HOME RUN; TICK MARKS INDICATE NUMBER OF WIRES, ARROWS INDICATE NUMBER OF CIRCUITS
- GROUND WIRE
- FEEDER PER SCHEDULE
- DISCONNECT SWITCH

KEYNOTES:

1. INSTALL RECEPTACLE IN CRAWL SPACE FOR SUMP PUMP. VERIFY LOCATION AND MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH-IN.
2. RECEPTACLE TO BE MOUNTED ABOVE CANSOPY. VERIFY LOCATION AND MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH-IN.
3. PROVIDE JUNCTION BOX AND POWER FOR HORTON SLIDING DOOR.
4. RECEPTACLES FOR SECURITY AND AUDIO.
5. PROVIDE JUNCTION BOX AND POWER FOR COOLER CONTROLS/LIGHTS. FIELD VERIFY EXACT LOCATION AND REQUIREMENTS.
6. PROVIDE JUNCTION BOX AND POWER FOR COOLER EVAPORATOR. FIELD VERIFY EXACT LOCATION AND REQUIREMENTS.
7. PROVIDE JUNCTION BOX FOR OUTDOOR HEATER CONTROLS 6" ABOVE SLIDING GLASS DOOR. COORDINATE ROUGH-IN AND WIRING REQUIREMENTS WITH OWNER.
8. PROVIDE JUNCTION BOX FOR POWER CONNECTION TO BUILDING LED TAPE LIGHT. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION AND LINEAR FOOTAGE OF FIXTURE. CONNECT POWER TO LED STRIPS PER MANUFACTURE'S INSTRUCTION.
9. PROVIDE WEATHER PROOF JUNCTION BOX AND TOGGLE SWITCH LOCATED ON SIGN IN CONCEALED LOCATION FOR EXTERIOR SIGNAGE PER REQ. COORDINATE EXACT LOCATION OF JUNCTION BOX WITH THE SIGNAGE PROVIDER PRIOR TO INSTALLATION. CONTRACTOR SHALL PULL ALL WIRING TO THE JUNCTION BOXES AND MAKE FINAL CONNECTIONS. COORDINATE ALL REQUIREMENTS WITH THE SIGNAGE PROVIDER.
10. INSTALL FIXTURE 12" ABOVE TOP OF DOOR. FIELD VERIFY EXACT LOCATION WITH OWNER.
11. INSTALL FIXTURE 7" ABOVE FINISH FLOOR. FIELD VERIFY MOUNTING HEIGHT WITH OWNER.
12. RECEPTACLE FOR ESPRESSO MACHINE. PROVIDE CORD AND PLUG CONNECTION.
13. POWER CONNECTION FOR AIR CURTAIN. COORDINATE ROUGH-IN, WIRING REQUIREMENTS, AND MOUNTING HEIGHT WITH OWNER.
14. CT CABINET AND METER.
15. COORDINATE INSTALLATION HEIGHT WITH ARCHITECT
16. POWER CONNECTION FOR ELECTRIC HEATER. COORDINATE INSTALLATION HEIGHT WITH OWNER.
17. RECEPTACLE FOR IPAD. COORDINATE INSTALLATION HEIGHT WITH OWNER.
18. REFER TO 1/SU1.1 FOR CONTINUATION.
19. (2) 2" COMMUNICATION CONDUITS WITH PULL-WIRE. COORDINATE TERMINATION WITH OWNER PRIOR TO INSTALLATION.
20. COORDINATE LOCATION AND RECEPTACLE TYPE WITH EQUIPMENT PROVIDER.

CONDUIT & CONDUCTOR SCHEDULE:

1. (2) #8 AND (1) #10 GROUND, IN 0.75" CONDUIT.
2. (2) #3 AND (1) #8 GROUND IN 1.25" CONDUIT.

7 BREW COFFEE
LEE'S SUMMIT, MO

1410 NE DOUGLAS STREET
LEE'S SUMMIT, MO 64086



ENGINEER OF RECORD:
NAME: RYAN JONES
LICENSE NO. PE-2004017193
PROJECT NUMBER:
21334 7BSM
REVISION:

E1.1
ELECTRICAL PLAN

DATE: APRIL 26, 2022

CJD LLC
Engineering | Energy | Innovation
2225 West Chesterfield Boulevard, Suite 200, Springfield, MO 65807
P: 417.877.1700 F: 417.324.7735 www.cjd-eng.com
Missouri State Certificate of Authority #2005026903
Special Notice: Drawings prepared by CJD LLC are instruments of service for use solely with respect to this project. CJD LLC retains ownership and all common law, statutory and other reserved rights including copyright. This drawing shall not be re-used in part or in full for any other work without prior written consent by and appropriate compensation to CJD LLC. Without changing the design without prior written approval from CJD LLC, reuse or other use of this drawing is prohibited for any damage, liability or costs resulting directly or indirectly from such changes to the fullest extent of the law.

