

Firestone

COMPLETE AUTO CARE™

NEW FIRESTONE STORE

3561 SW MARKET ST., JACKSON COUNTY

LEE'S SUMMIT, MO 64082

REVISION LOG		
REV	DATE	DESCRIPTION
▲	ADD#1	04/16/20
▲	CB#1	06/30/20
▲		
▲		
▲		

DCB TRACKING		
2020 ER PROTOTYPE WITH APPLICABLE CCBS THROUGH DCB # 2019-037, 2020-038		
DCB #	ISSUED UNDER	DATE
2019-001 - 037	PERMIT	03/26/20
2020-001 - 018		
--	BID	- / - / -
2020-018 - 023	ADD#1	04/16/20
2020-024 - 038	CB#1	06/30/20
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RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
07/10/2020

CODE DATA SUMMARY	
APPLICABLE CODES	2018 INTERNATIONAL BUILDING CODE (IBC) 2018 INTERNATIONAL MECHANICAL CODE (IMC) 2018 INTERNATIONAL PLUMBING CODE (IPC) 2017 NATIONAL ELECTRICAL CODE (NEC) 2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) 2018 INTERNATIONAL FIRE CODE (IFC) NFPA ANSI A117.1 - 2017
BUILDING INFORMATION (2020 ER-LAYOUT)	ONE STORY METAL BUILDING, MERCHANDISING, AUTO SERVICE (MINOR REPAIR), INCIDENTAL STORAGE AREA.
SHOWROOM AREA	802 SF
ACCESSORY AREA (OFFICE, RESTROOMS)	531 SF
SERVICE AREA	3,421 SF
INVENTORY AREA	1,508 SF
GROSS TOTAL	6,262 SF
Chapter 3 - OCCUPANCY CLASSIFICATION (MIXED)	309.1 Occupancy Group M (Mercantile) - Showroom 311.2 Occupancy Group S-1 (Moderate Hazard) - Inventory 311.2 Occupancy Group S-1 (Moderate Hazard) - Service Areas
Chapter 5- GENERAL BUILDING HEIGHTS AND BUILDING AREAS	Table 504.3: Construction Type V-B Group M - Allowable area = 36,000 SF, Allowable height = 60' Group S-1 - Allowable area = 36,000 SF, Allowable height = 60' Provided: 6,262 SF 23'-8" height
Chapter 6 - TYPES OF CONSTRUCTION	602.5 Type V-B Table 601 - Type V-B- Groups M & S-1 Structural Frame: 0 hour rating Floor and Roof Construction: 0 hour rating Exterior Bearing Walls: 0 hour rating Table 602 -Type V-B - Exterior wall based on fire separation distance: All sides >10'- 0 hour rating
Chapter 7 - FIRE RATED CONSTRUCTION	705.2.2 Projections from walls of Type V Construction shall be of any approved material. 720.2 Concealed insulation materials shall have a flame spread index of not more than 25 and a smoke-developed index of not more than 450.
Chapter 9 - FIRE PROTECTION SYSTEM	903.2.9.1- Group S-1- Repair Garages- An automatic sprinkler system shall be provided throughout all buildings used as repair garages in accordance with Section 406, as shown: 1. Buildings having two or more stories above grade plan, including basements, with a fire area containing a repair garage exceeding 10,000 square feet. 2. Buildings not more than one story above grade plane, with a fire area containing a repair garage exceeding 12,000 square feet. 3. Buildings with repair garages servicing vehicles parked in basements. 4. A group S-1 fire area used for repair of commercial motor vehicles where the fire area exceeds 5,000 square feet. 903.2.9.2 - Bulk storage of tires. Buildings and structures where the area for the storage of tires exceed 20,000 cubic feet shall be equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1. Proposed tire storage = < 20,000 CU. FT. OF TIRES. Tire Storage- On tread, in single and double row fixed stacks without solid shelves and 5 tiers. A FIRE PROTECTION SYSTEM AND FIRE ALARM SYSTEM WILL BE PROVIDED.
Chapter 10 - MEANS OF EGRESS	Occupant load: Table 1004.1.2, Gross Floor Areas: 6,262 SF Showroom (Mercantile 802 SF/60 gross) = 14 occupants Accessory (Break area & office 531 SF/150 gross) = 4 occupants Service Area (3,421 SF/300 gross) = 12 occupants Inventory (Storage 1,508 SF/300 gross) = 5 occupants TOTAL OCCUPANTS for means of egress = 35 occupants Egress width: 1005.3.2, Egress width @ grade level doors = 0.20" per occupant, 35 occupants X 0.20 = 7" of egress width required Provided exit width - (3) doors = 111" (#01, #07, #16)
Chapter 11- ACCESSIBILITY	1103.2.9 - Equipment spaces frequented only by personnel for maintenance, repair or monitoring of equipment are not required to be accessible. 1104.1- Accessible routes within the site shall be provided from public transportation stops, accessible parking, accessible passenger loading zones; and public streets or sidewalks to the accessible building entrance served. 1104.3.1- Employee work areas. Common use Circulation paths within employee work areas shall be accessible. 1105.1- Public Entrances, At least 60 percent of all public entrances shall be accessible. Table 1106.1 - Accessible parking - 1 per 25 spaces.
Chapter 12 - INTERIOR ENVIRONMENT	Ventilation and Temperature control shall conform to the IMC. 1209.2.1 Toilet room floors shall have smooth, hard, nonabsorbent surface that extends upward onto the walls at least 4". 1209.2.2 Walls within 2 feet of urinals and water closets shall have a smooth, hard, nonabsorbent surface to 4 feet above the floor, and except for structural elements, the materials used in such walls shall be of a type that is not adversely affected by moisture. Accessories such as grab bars, towel dispensers, T.P. dispensers, etc., provided on or in walls, shall be installed and sealed to protect structural elements from moisture.

GENERAL NOTES	
1. ALL ITEMS SHALL FULLY COMPLY WITH IBC ACCESSIBILITY GUIDELINES SECTION 1101.2 ACCESSIBLE BUILDINGS: NEW CONSTRUCTION	6. THE OWNER WILL EMPLOY THE SERVICES OF ONE OR MORE SPECIAL INSPECTORS TO PROVIDE SPECIAL INSPECTIONS DURING CONSTRUCTION FOR THE REQUIRED SPECIAL INSPECTION ITEMS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF THE CONTRACT DOCUMENTS. THE OWNER SHALL BE NOTIFIED OF ANY UNFORESEEN CONDITIONS WHICH MAY AFFECT PROGRESS OR COST OF WORK PERFORMED.	7. A VESTIBULE IS NOT INCLUDED ON THIS PROJECT BASED ON EXCEPTION 4 OF THE 2018 INTERNATIONAL ENERGY CONSERVATION CODE SECTION C402.5.7. DOORS THAT OPEN DIRECTLY FROM A SPACE LESS THAN 3,000 SQUARE FEET IN AREA.
3. FIRE EXTINGUISHERS SHALL BE LOCATED PER DIRECTION OF FIRE DEPARTMENT. REFER GENERAL NOTE #4 AND SHEET LS1 FOR REQUIRED F.E. LOCATIONS.	8. FIRE PROTECTION - a. APPROVAL OF SPRINKLER DRAWINGS IS REQUIRED BY BRIDGESTONE CONSTRUCTION MANAGER.
4. G.C. SHALL PROVIDE, INSTALL AND CERTIFY (4) DRY CHEMICAL (A, B, C) @ 10 lbs. FIRE EXTINGUISHERS. LOCATE 1 SALES, 1 BREAK AREA, 1 INVENTORY AT DOOR TO SERVICE (INVENTORY SIDE), AND 1 SERVICE AT DOOR TO INVENTORY (SERVICE SIDE). MINIMUM AMOUNT OF FIRE EXTINGUISHERS WILL BE REQUIRED WHETHER OR NOT CODE REQUIRES. IF CODE REQUIRES MORE THAN STATED HEREIN, G.C. SHALL FURNISH AND INSTALL THE ADDITIONAL REQUIRED.	b. NO MAIN LINES RUN WITHIN THE PLAN AREA OF THE OPEN OR UP POSITION OF THE OVERHEAD DOOR.
5. ALL SIGNAGE, SHELVING, AND ALARMS SHALL BE DEFERRED SUBMITTALS UNDER SEPARATE PERMIT SUBMISSION.	c. FIRE SPRINKLER TEST PIPE TO BE DIRECTED TO HARDSCAPE TO AVOID WASH OUT OF OTHER TYPE MATERIAL.
	d. FIRE SPRINKLER MONITORING REQUIRED, WITH MINIMUM (1) MANUAL PULL STATION FOR FIRE SPRINKLER MONITORING.
	e. ALL AUXILIARY DRAINS AND PIPING ARE TO BE ROUTED OUT THRU SERVICE BAYS.
9. DISTRICT/STORE MANAGER/NSC TO PROVIDE MAIL BOX TYPE AND LOCATION TO THE GENERAL CONTRACTOR'S SUPERINTENDENT APPROXIMATELY 2 WEEKS BEFORE TURNOVER FOR GC TO IMPLEMENT AS FIELD CHANGE ORDER.	

BUILDING DRAWING INDEX							BUILDING DRAWING INDEX						
SHT.	TITLE	DWG. DATE	REV. NO.	REV. DATE	FOR LEASE DOC.	FOR PERMIT	SHT.	TITLE	DWG. DATE	REV. NO.	REV. DATE	FOR LEASE DOC.	FOR PERMIT
GENERAL INFORMATION (FOR REFERENCE)							STRUCTURAL DRAWINGS						
T1	TITLE SHEET	03/26/20	2	06/30/20	- / - / -	03/26/20	S1	GENERAL NOTES	03/26/20	2	06/30/20	- / - / -	03/26/20
N1	GENERAL INFORMATION	03/26/20	1	04/16/20	- / - / -	03/26/20	S2	FOUNDATION PLAN AND NOTES	03/26/20	2	06/30/20	- / - / -	03/26/20
LS1	LIFE SAFETY PLAN	03/26/20	1	04/16/20	- / - / -	03/26/20	S3	FOUNDATION DETAILS	03/26/20	2	06/30/20	- / - / -	03/26/20
PSL1	PHOTOMETRIC SITE LIGHTING	03/26/20	1	04/16/20	- / - / -	03/26/20							
STORE PLANNING (FOR REFERENCE)							FIRE PROTECTION DRAWINGS						
F1	FIXTURE PLAN & NOTES	03/26/20	2	06/30/20	- / - / -	03/26/20	FP1	FIRE SPRINKLER PLAN	03/26/20	2	06/30/20	- / - / -	03/26/20
F2	SHOWROOM FIXTURE PLAN & ELEVATIONS	03/26/20	2	06/30/20	- / - / -	03/26/20	FP2	FIRE SPRINKLER NOTES AND DETAILS	03/26/20	1	04/16/20	- / - / -	03/26/20
ARCHITECTURE DRAWINGS							FIRE ALARM DRAWINGS						
A1	METAL BUILDING PLAN & NOTES	03/26/20	2	06/30/20	- / - / -	03/26/20	FA1	FIRE ALARM PLAN AND MATRIX	03/26/20	2	06/30/20	- / - / -	03/26/20
A1.1	FLOOR PLAN & NOTES	03/26/20	2	06/30/20	- / - / -	03/26/20	FA2	FIRE ALARM NOTES, PROGRAMMING AND CALCULATIONS	03/26/20	1	04/16/20	- / - / -	03/26/20
A1.2	ENLARGED PLAN DETAILS	03/26/20	2	06/30/20	- / - / -	03/26/20	FA3	FIRE ALARM DETAILS	03/26/20	1	04/16/20	- / - / -	03/26/20
A2	REFLECTED CEILING & FINISH PLAN	03/26/20	2	06/30/20	- / - / -	03/26/20	FA4	FIRE ALARM CONTROL PANEL LAYOUT	03/26/20	1	04/16/20	- / - / -	03/26/20
A3	ROOF PLAN & DETAILS	03/26/20	2	06/30/20	- / - / -	03/26/20							
A4	EXTERIOR ELEVATIONS & DETAILS	03/26/20	2	06/30/20	- / - / -	03/26/20	BURGLAR ALARM DRAWINGS						
A5	BUILDING SECTIONS & DETAILS	03/26/20	2	06/30/20	- / - / -	03/26/20	BA1	INTRUSION ALARM PLAN AND MATRIX	03/26/20	1	04/16/20	- / - / -	03/26/20
A5.1	WALL SECTIONS	03/26/20	1	04/16/20	- / - / -	03/26/20	BA2	INTRUSION ALARM NOTES AND CALCULATIONS	03/26/20	1	04/16/20	- / - / -	03/26/20
A6	WALL SECTIONS & DETAILS	03/26/20	2	06/30/20	- / - / -	03/26/20	BA3	INTRUSION ALARM CONTROL PANEL LAYOUT AND DETAILS	03/26/20	1	04/16/20	- / - / -	03/26/20
A6.1	TRASH/TIRE ENCLOSURE DETAILS	03/26/20	2	06/30/20	- / - / -	03/26/20							
A7	INTERIOR ELEVATIONS, SECTIONS & DETAILS	03/26/20	2	06/30/20	- / - / -	03/26/20	MECHANICAL DRAWINGS						
A8	ROOM FINISH & DOOR SCHEDULES	03/26/20	2	06/30/20	- / - / -	03/26/20	M1	MECHANICAL PLAN AND NOTES	03/26/20	1	04/16/20	- / - / -	03/26/20
DEFERRED SHOP DRAWING SUBMITTALS							M2	MECHANICAL DETAILS	03/26/20	1	04/16/20	- / - / -	03/26/20
THE FOLLOWING SUBMITTALS ARE TO BE SUBMITTED BY THE GENERAL CONTRACTOR TO THE AUTHORITY HAVING JURISDICTION FOR APPROVAL PRIOR TO FABRICATION OR INSTALLATION. SUBMITTALS ARE TO BE SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE STATE OF MISSOURI OR AS REQUIRED BY THE AHJ. REFER SPECIFICATIONS.							M3	MECHANICAL EQUIPMENT SCHEDULES	03/26/20	1	04/16/20	- / - / -	03/26/20
COPIES SUBMITTALS							PLUMBING DRAWINGS						
3	FIRE ALARM						P1	PLUMBING PLAN AND NOTES	03/26/20	1	04/16/20	- / - / -	03/26/20
3	FIRE PROTECTION						P2	ENLARGED RESTROOM PLUMBING PLANS	03/26/20	1	04/16/20	- / - / -	03/26/20
							P3	AIR PIPING PLAN AND NOTES	03/26/20	1	04/16/20	- / - / -	03/26/20
							P4	OIL PIPING DETAILS	03/26/20	1	04/16/20	- / - / -	03/26/20
							P5	PLUMBING DETAILS	03/26/20	2	06/30/20	- / - / -	03/26/20
							P6	PLUMBING SCHEDULES AND RISERS	03/26/20	1	04/16/20	- / - / -	03/26/20
ELECTRICAL DRAWINGS							E1	ELECTRICAL SYMBOLS, NOTES AND SCHEDULES	03/26/20	2	06/30/20	- / - / -	03/26/20
							E2	LIGHTING PLAN	03/26/20	2	06/30/20	- / - / -	03/26/20
							E3	POWER PLAN	03/26/20	2	06/30/20	- / - / -	03/26/20
							E4	ELECTRICAL DETAILS	03/26/20	1	04/16/20	- / - / -	03/26/20
							E5	ONE-LINE DIAGRAM, PANEL SCHEDULES AND NOTES	03/26/20	2	06/30/20	- / - / -	03/26/20
							ESL1	SITE LIGHTING PLAN	03/26/20	1	04/16/20	- / - / -	03/26/20

1/2" DENSGLASS GOLD IS AN ACCEPTED APPROVED ALTERNATE TO 1/2" EXTERIOR GRADE PLYWOOD.

- SUBCONTRACTOR NOTES
- THE SUB CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
 - THE SUBCONTRACTOR SHALL EXAMINE ENTIRE SET PRIOR TO SUBMITTING BID.

ALL RFI'S AND SUBMITTALS SHALL BE SENT TO
BSRO_Submittals_RFI@sgadesingnrgroup.com.

DEVELOPER CONTACT: FS LEE'S SUMMIT, LLC JASON HOROWITZ 9010 OVERLOOK BLVD BRENTWOOD, TN 37027 PHONE: 615.370.0670	ARCHITECTURAL CONTACT: SGA DESIGN GROUP, P.C. OLIVIA GOOD 1437 SOUTH BOULDER AVE, SUITE 550 TULSA, TULSA COUNTY, OK 74119 PHONE: 918.587.8600	STRUCTURAL: WALLACE ENGINEERING - STRUCTURAL CONSULTANTS, INC. CARRIE JOHNSON MO STATE CERTIFICATE OF AUTHORITY #001268 123 N. MARTIN LUTHER KING JR. BLVD. TULSA, TULSA COUNTY, OK 74103 PHONE: 918.584.5858 FAX: 918.584.8689	FIRE PROTECTION CODE CONSULTANTS, INC. WILLIAM B. SMITH MO ST. CERTIFICATE OF AUTHORITY: #000419 2043 WOODLAND PARKWAY, SUITE 300 ST. LOUIS, ST. LOUIS COUNTY, MO 63143 PHONE: 314.991.2633	FIRE ALARM/BURGLAR ALARM: CODE CONSULTANTS, INC. JACOB P. HEMKE MO ST. CERTIFICATE OF AUTHORITY: #000419 14817 WEST 95TH ST. LENEXA, JOHNSON COUNTY, KS 66215 PHONE: 913.322.5150 FAX: 913.322.5155	MECHANICAL/PLUMBING/ELECTRICAL: ACERTUS CONSULTING GROUP, LLC RANDALL A. NELSON 14817 WEST 95TH ST. LENEXA, JOHNSON COUNTY, KS 66215 PHONE: 913.322.5150 FAX: 913.322.5155	TENANT CONTACT: BRIDGESTONE RETAIL OPERATIONS, LLC BRANT HEFLIN 200 4TH AVE. SOUTH NASHVILLE, TN 37201 PHONE: 615.937.9345
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SGA Design Group, P.C.
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www.sgadesigngroup.com
Certificate of Authority #A-2008031944
Architecture

Firestone
COMPLETE AUTO CARE

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STIPULATION OF REUSE
THIS DRAWING WAS PREPARED FOR USE ON A SPECIFIC SITE AT LEE'S SUMMIT, MO. DATE ON 06/30/20 AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR REUSE ON ANY OTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. ANY REUSE OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

NEW FCAC STORE
2020 ER
3561 SW MARKET ST
JACKSON COUNTY
LEE'S SUMMIT, MISSOURI 64082

MITCH GARRETT
NUMBER A-007541
6/30/2020

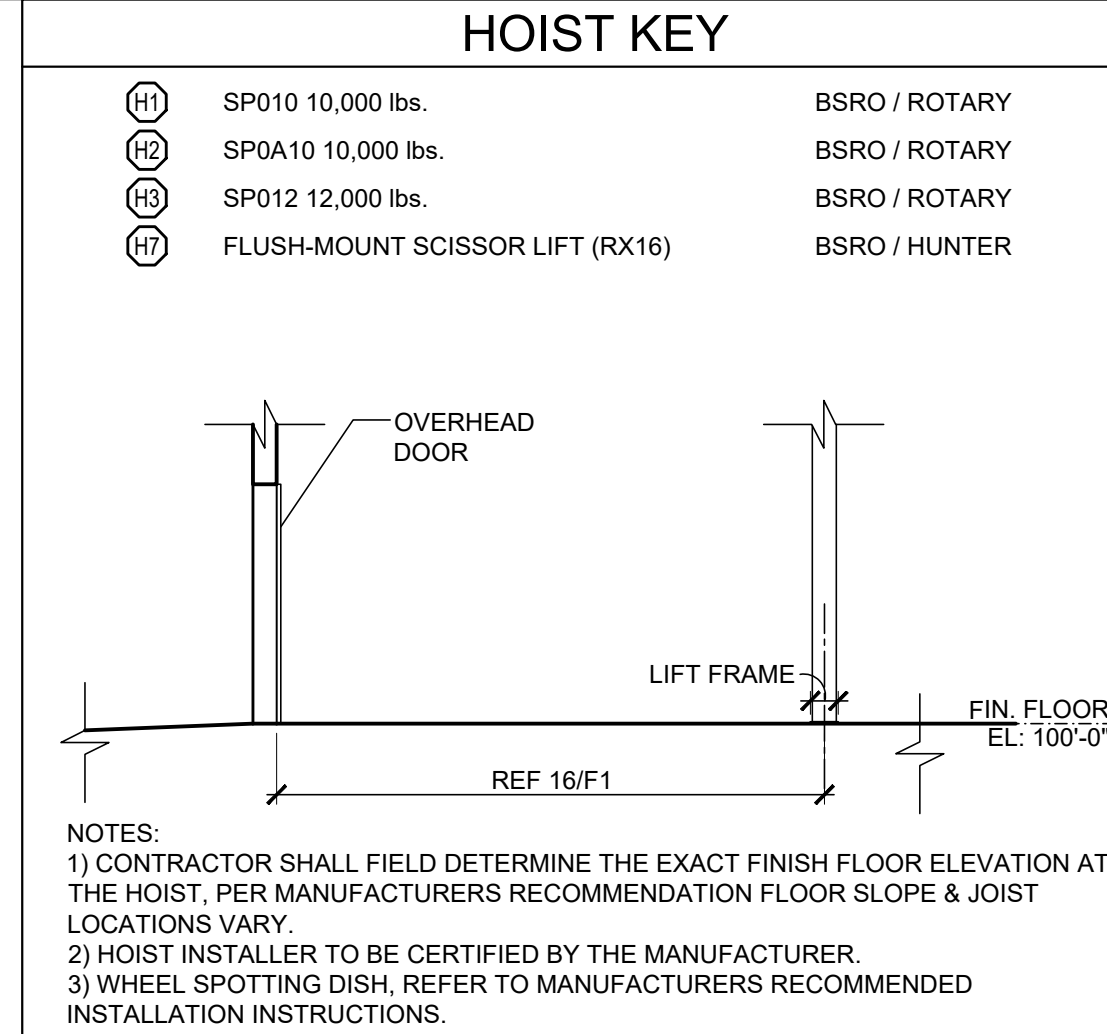
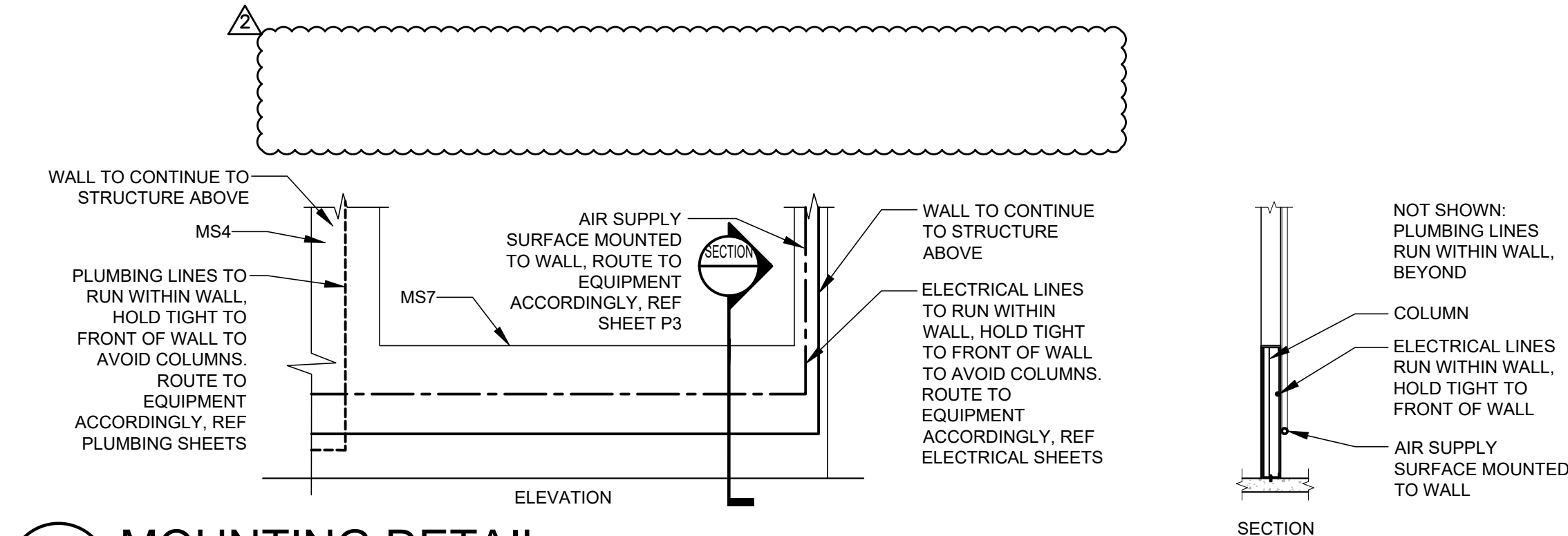
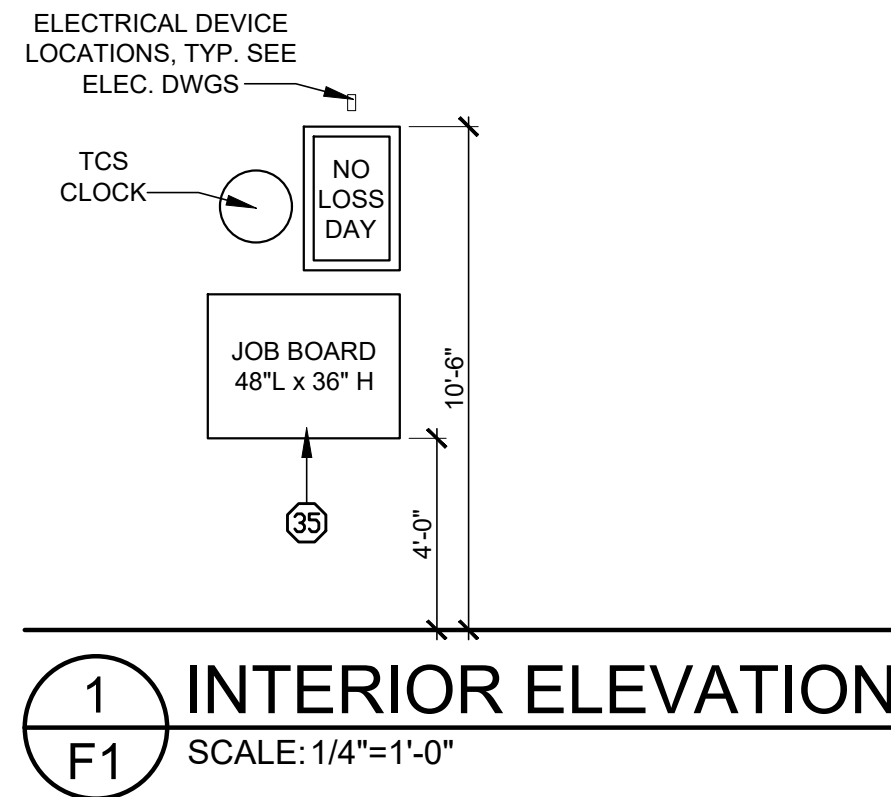
Digitally signed by Mitch Garrett
DN: cn=Garrett, o=SGA Design Group, c=US
Date: 2020.06.30 14:28:05Z
Mitchell Ray Garrett - ARCHITECT
MOP A-007541

ISSUE BLOCK

▲	04/16/20	ADD #1
▲	06/30/20	CB#1

PROPERTY NO.: 160085
6 DIGIT NO.: 906983
4 DIGIT NO.: 78C9
AOR PROJECT NUMBER: 1955B71
TO PERMIT: DATE: 03/26/2020
TO BID: DATE: ###-##-##
KMP

SHEET TITLE:
TITLE SHEET
SHEET NUMBER:
T1



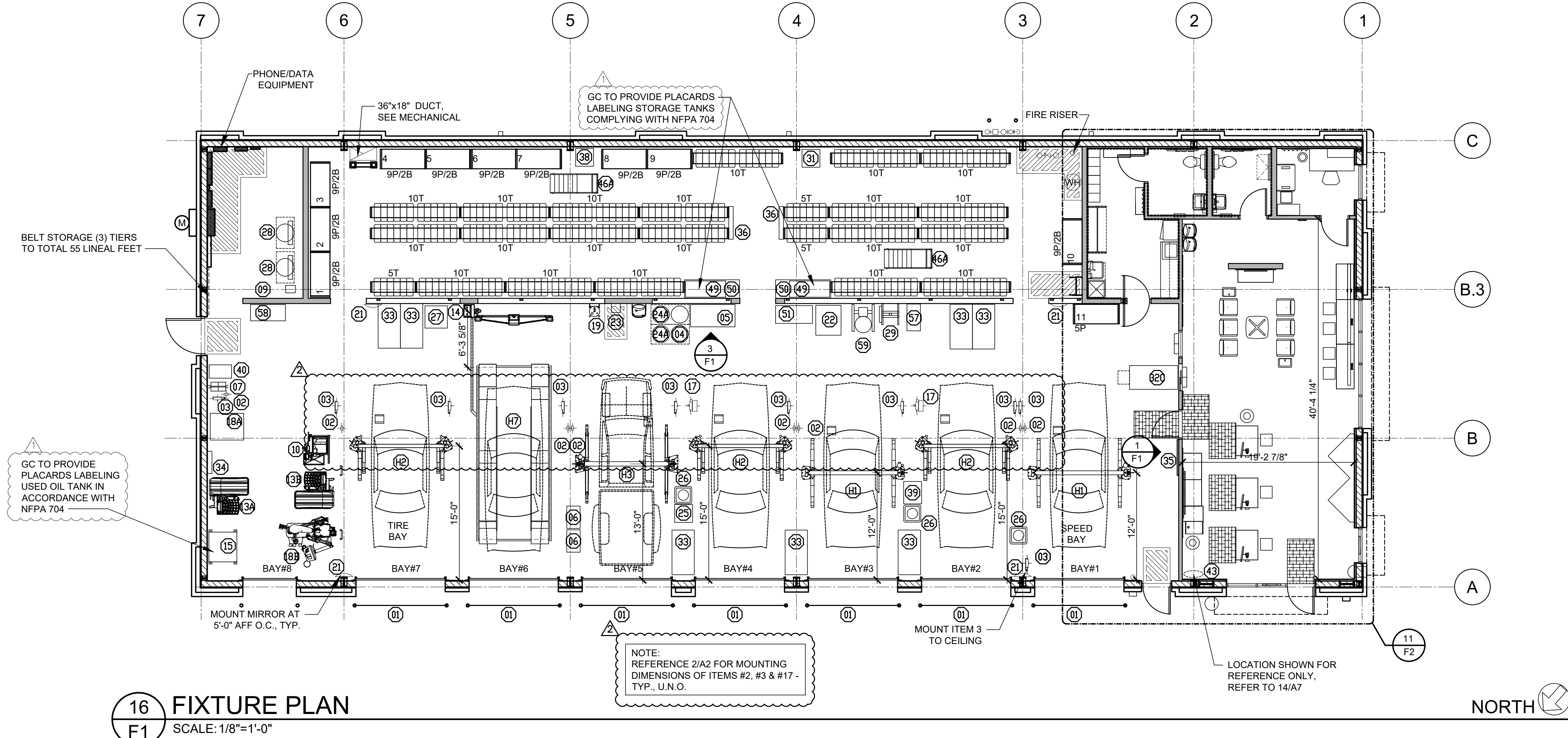
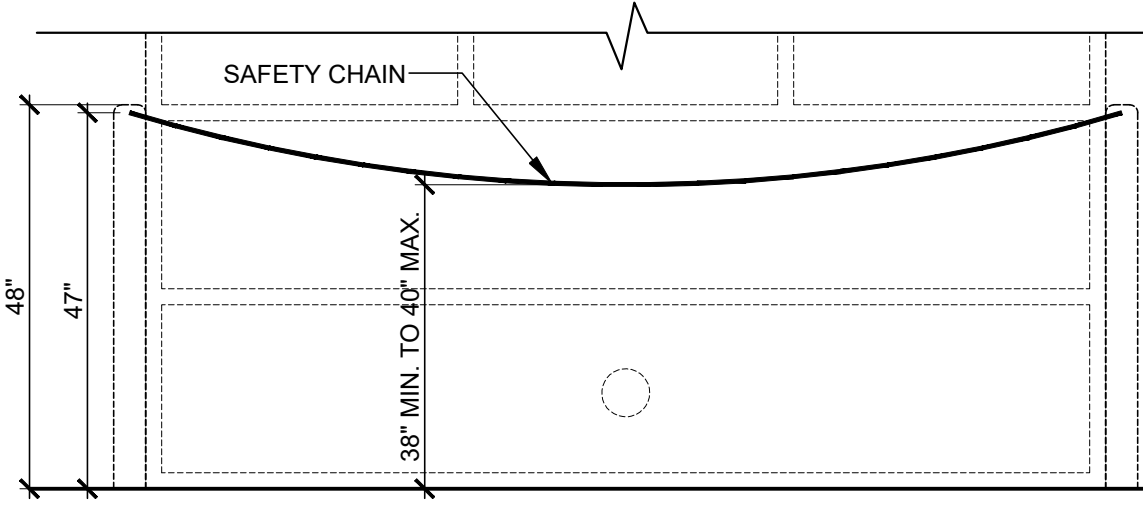
INVENTORY COUNT	
1,182 - UNITS/TIRES (5 TIERS OF TIRES)	
475 - LF PARTS	

BUILDING AREAS	S.F.
SHOWROOM AREA	802
SERVICE AREA	3,421
INVENTORY AREA	1,508
ACCESSORY USE AREAS	531
FACADE UPGRADES	0
TOTAL BUILDING	6,262

SHOP EQUIPMENT KEY:		
FURNISHED BY BSRO U.N.O. ALL ITEMS INSTALLED BY G.C. REFER TO P3/P4/E2/E3/E4/E5 SHEETS FOR FURTHER REQUIREMENTS.		
#	QTY	DESCRIPTION
01	7	SETS (BANNER/ BRACKETS/CHAIN) SEE 20/F1 & 15/A7
02	8	O.H. CORD REEL LIGHT
03	11	O.H. AIR HOSE REEL
04	1	USED OIL FILTER CONTAINER (MOBILE)
05	1	SERVICE BENCH
06	2	BRAKE TOOL STAND (MOBILE)
07	1	FLAT REPAIR STATION
09	1	AIR DRYER
10	1	BRAKE SHOP (INSTALLED BY HUNTER)
13A	1	ELECTRONIC WHEEL BALANCER (INST. BY HUNTER), GSP9700 ROAD FORCE
13B	1	ELECTRONIC WHEEL BALANCER (INST. BY HUNTER), GSP9200 NON-ROAD FORCE
14	1	WHEEL ALIGNMENT COMPUTER (FLOOR MTD INSTALLED BY HUNTER)
15	1	USED OIL TANK / BENCH
17	2	HEAVY DUTY CORD REEL
18A	1	RIM CLAMP TIRE CHANGER
18B	1	TIRE CHANGER TCR1S REVOLUTION (INSTALLED BY HUNTER)
19	1	GAS CADDIE (25 GAL) SEE A1 FOR TOX ALERT OVERRIDE NOTE AT MVS DESK
21	4	MIRROR
22	1	BATTERY RACK
23	1	EYE WASH
24A	2	SPILL SKID 6"X26"X52"L
25	1	COOLANT FLUSH MACHINE (MOBILE)
26	3	USED OIL RECEPTOR (MOBILE)
27	1	USED TIRE CART (MOBILE)
28	2	5 HP COMPRESSOR
29	1	SHOP PRESS
31	1	ELECTRICAL SYSTEM TESTER (MOBILE)
32C	1	65" MVS DESK
33	7	MECHANIC'S TOOL CABINETS (MOBILE)
34	1	WHEEL WEIGHT RACK
35	1	JOB BOARD 48" LONG
36	2	1 OF EACH NUT & BOLT BIN
38	1	STRUT COMPRESSOR (MOBILE)
39	1	REFRIGERANT CHARGER (MOBILE)
40	1	TIRE TEST TANK
43	1	SATELLITE DISH - VENDOR SUPPLIED REFER 14/A7
46A	2	5 TIER ROLLING LADDER
49	2	STACKABLE 2 TANK OIL SYSTEM
50	2	120/120 GALLON CONTAINMENT PAN
51	1	ECOBIX OIL RACK
57	1	LOCKABLE TOOL CABINET
58	1	SPEED SCRUB 2001E
59	1	PROCUIT WARTHOG RMS
H1	2	SP010 10,000 LBS. (SEE HOIST KEY)
H2	3	SP0A10 10,000 LBS. (SEE HOIST KEY)
H3	1	SP012 12,000 LBS. (SEE HOIST KEY)
H7	1	ALIGNMENT RACK IN RECESSED SLAB (SEE HOIST KEY - INST. BY HUNTER)

SERVICE SAFETY CHAINS

GC TO INSTALL A BSRO PROVIDED YELLOW PLASTIC CHAIN AT ALL OVERHEAD DOORS ON THE OUTSIDE OF BUILDING. GC TO FURNISH AND INSTALL 1" LONG AND 1/4" DIA. CLOSED EYE BOLT HOOK ON BOLLARDS AT EVERY OVERHEAD DOOR MOUNTED 47" AFF (1" BELOW TOP OF BOLLARD). MOUNT BETWEEN THE WALL AND BACK SIDE OF BOLLARD THROUGH 1/4" HOLE IN BOLLARD AND BOLTED ON THE INSIDE PRIOR TO FILLING BOLLARD WITH CONCRETE. GC TO FURNISH A SPRING LOADED SNAP HOOK ON BOTH ENDS OF THE CHAIN. GC TO CUT THE CHAIN TO LENGTH SO THAT CENTER HANGS BETWEEN 38" AND 40" AFF (ALMOST HORIZONTAL) SO THAT THE APPEARANCE IS CONSISTENT AT ALL DOOR OPENINGS. GC TO FURNISH AND INSTALL A 1" LONG AND 1/4" DIA. CLOSED EYE SCREW HOOK AT 60" AFF INTO THE WOOD BUCK ON THE DRIVERS SIDE OF EVERY DOOR TO STORE THE LOOSE END OF THE CHAIN WITH THE SPRING LOADED SNAP HOOK. THIS ALLOWS THE OVERHEAD DOOR TO BE CLOSED AND STORED INSIDE THE BUILDING.



RELEASE FOR CONSTRUCTION

SGA Design Group, P.C.

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Tulsa, Oklahoma 74119-3809
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07/10/2020

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Architecture

AS NOTED ON PLANS REVIEW

Lee's Summit, Missouri

THIS DRAWING IS THE PROPERTY OF BRIDGESTONE RETAIL OPERATIONS, LLC AND IS LOANED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED IN ANY WAY BEYOND THE INTERESTS OF BRIDGESTONE RETAIL OPERATIONS, LLC. ANY REUSE OR REPRODUCTION OF THIS DRAWING WITHOUT THE WRITTEN PERMISSION OF BRIDGESTONE RETAIL OPERATIONS, LLC IS STRICTLY PROHIBITED. BRIDGESTONE RETAIL OPERATIONS, LLC ASSUMES NO LIABILITY FOR ANY ERRORS OR OMISSIONS IN THIS DRAWING. BRIDGESTONE RETAIL OPERATIONS, LLC IS NOT RESPONSIBLE FOR ANY DAMAGE TO PERSONS OR PROPERTY ARISING FROM THE USE OF THIS DRAWING.

BRIDGESTONE

COMPLETE AUTO CARE

100% Satisfaction Guarantee

NEW FCAC STORE

2020 ER

3561 SW MARKET ST

JACKSON COUNTY

LEE'S SUMMIT, MISSOURI 64082

STATE OF MISSOURI

MITCH GARRETT

NUMBER A-007541

06/30/2020

Digitally signed by Mitch Garrett
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Mitchell Garrett
MITCHELL RAY GARRETT - ARCHITECT
MOP A-007541

ISSUE BLOCK

1	04/16/20	ADD #1
2	06/30/20	CB#1

PROPERTY NO.: 160085

6 DIGIT NO.: 906983

4 DIGIT NO.: 78C9

AOR PROJECT NUMBER: 1955B71

TO PERMIT: DATE: 03/26/2020

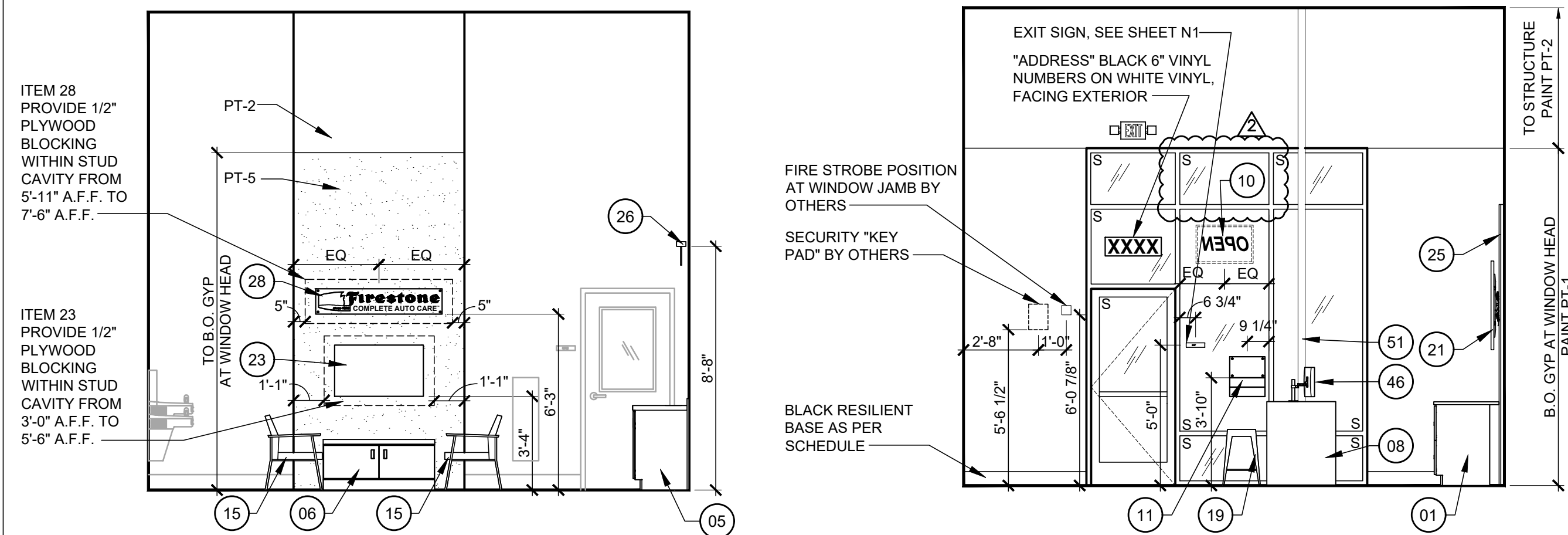
TO BID: DATE: ###-##-

KMP

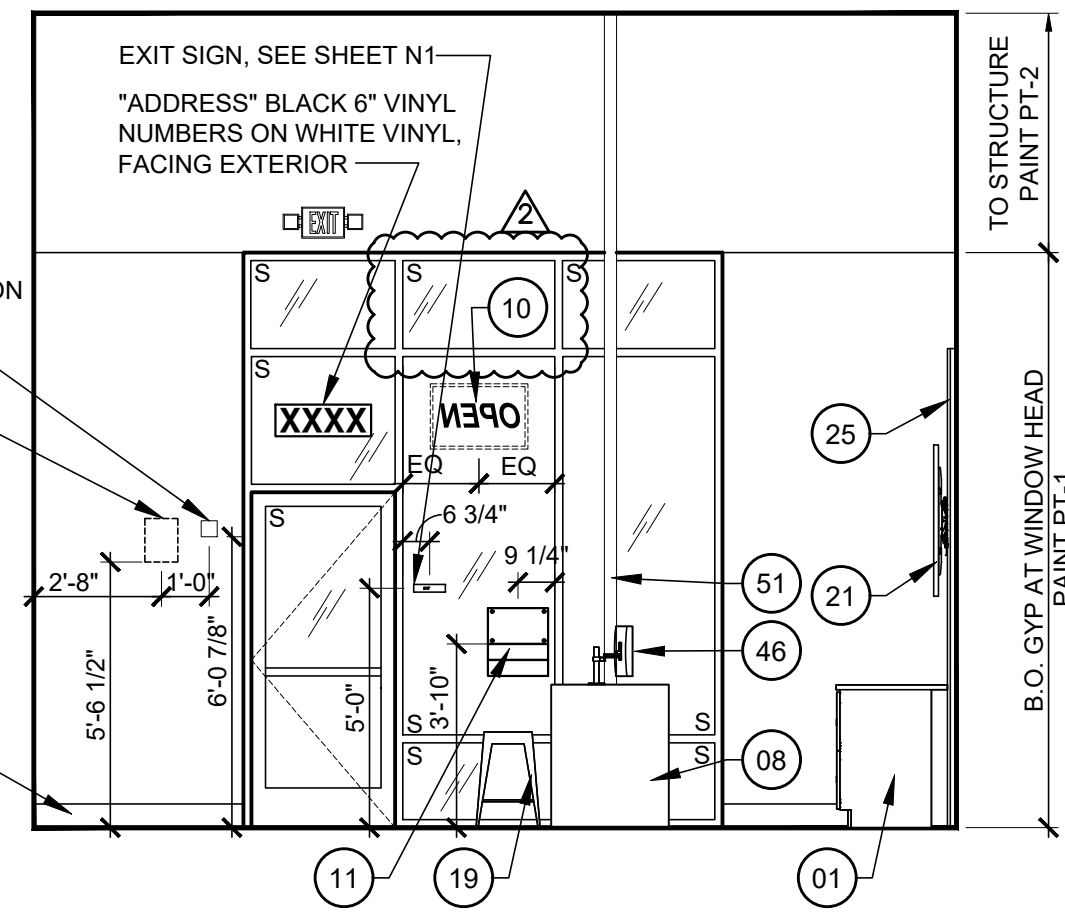
SHEET TITLE: FIXTURE PLAN & NOTES

SHEET NUMBER: F1

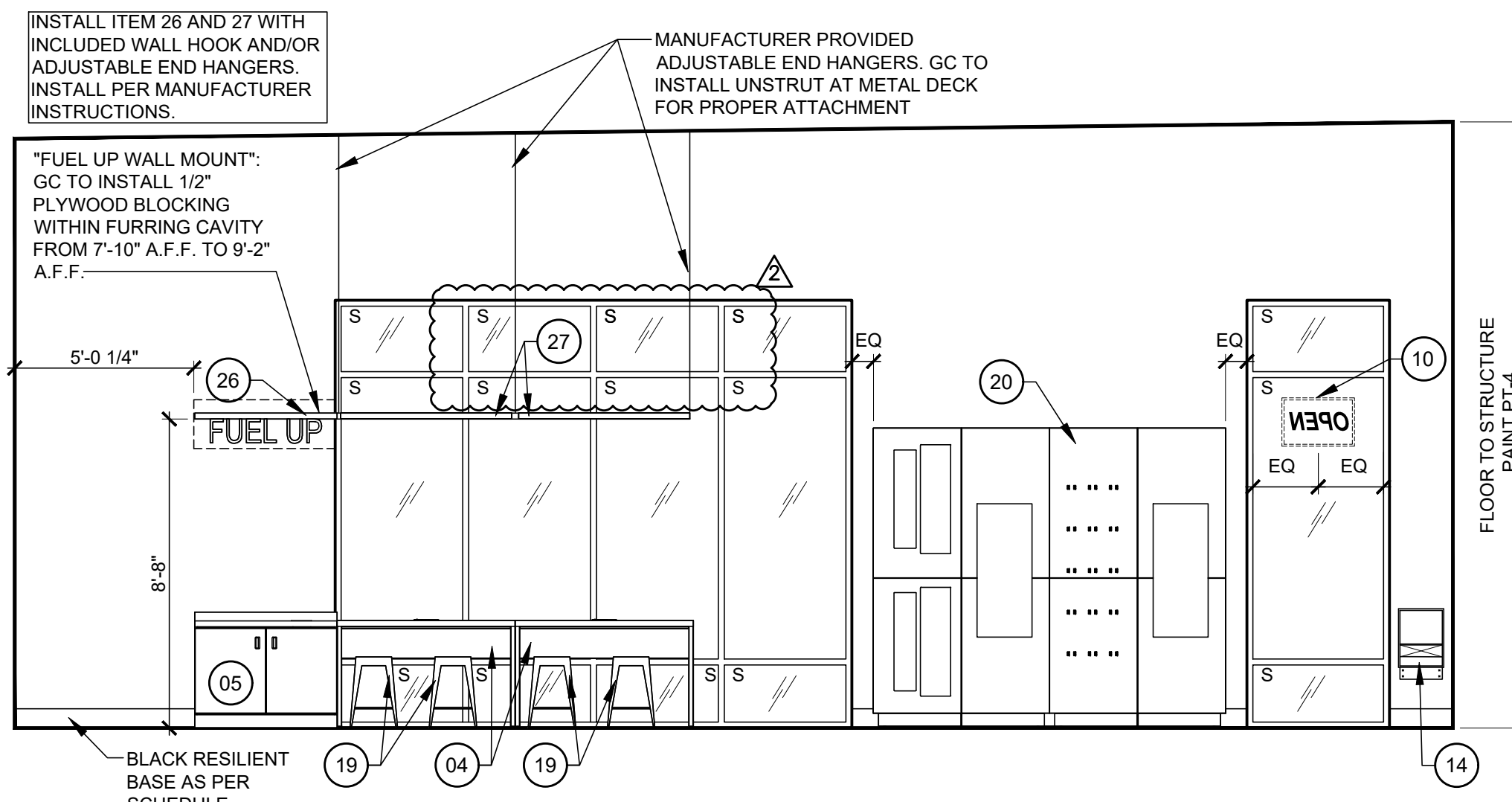
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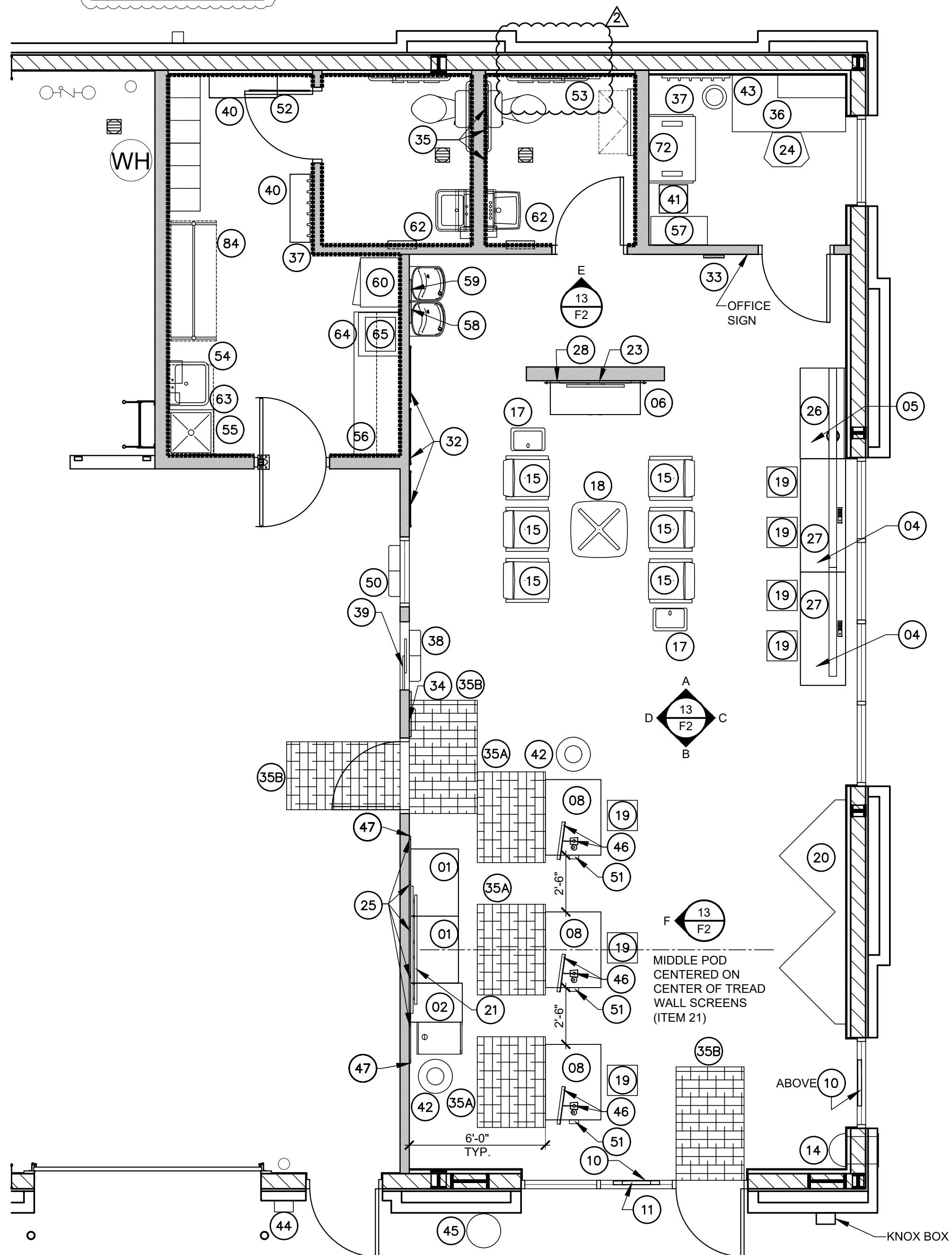
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ELEVATION "B"



ELEVATION "C"

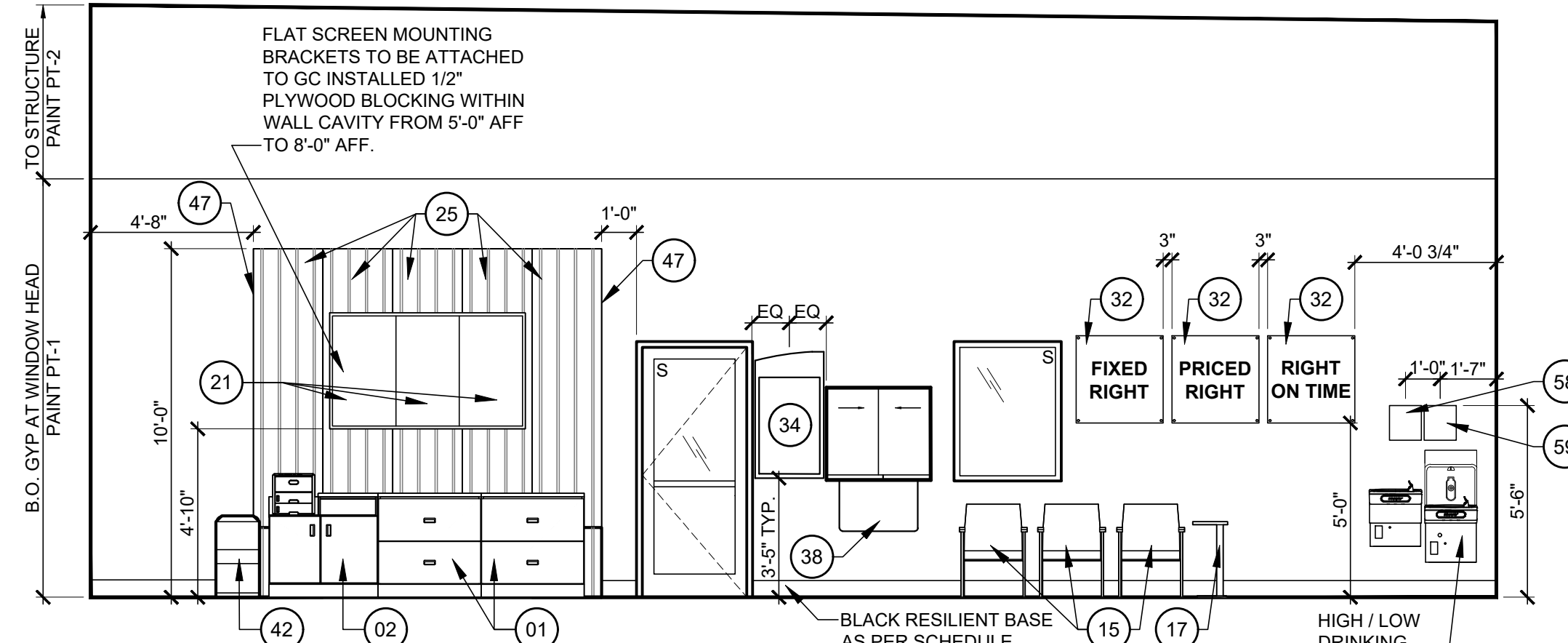


11 ENLARGED SHOWROOM FIXTURE PLAN
F2 SCALE: 1/4"=1'-0"

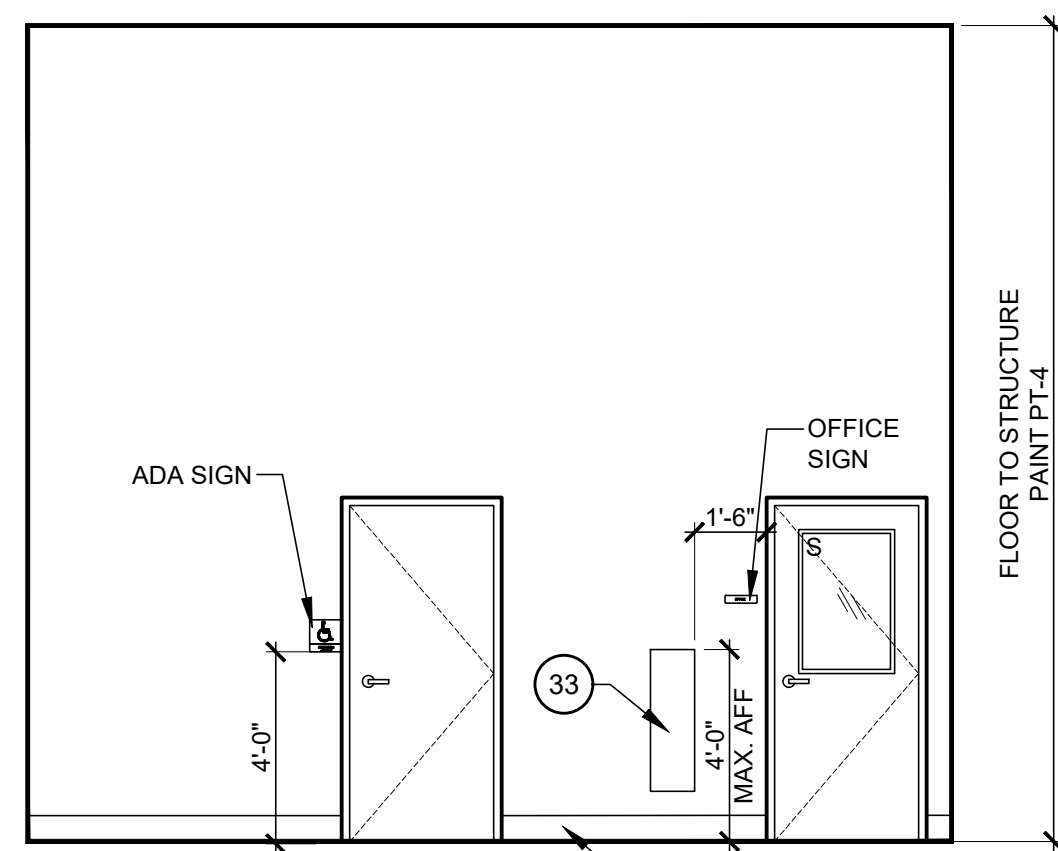
SCALE: 1/4"=1'-0'

ITEM 25 INSTALLATION INSTRUCTIONS:

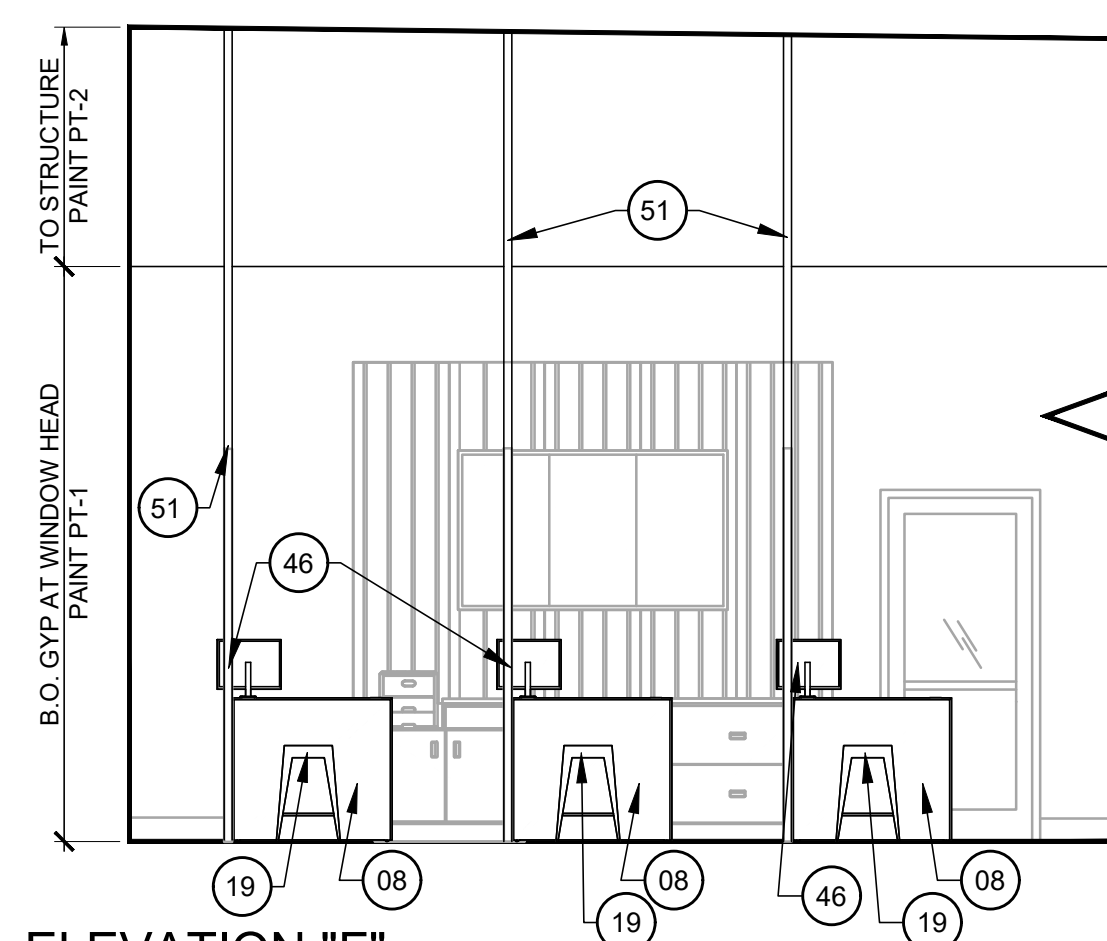
1. FIND THE STUDS ON THE WALL AND MARK THEM WHERE YOU WILL BE ATTACHING TO PANELS.
2. APPLY THE CONSTRUCTION GRADE ADHESIVE TO THE BACK OF THE PANEL AS RECOMMENDED BY THE ADHESIVE MANUFACTURER.
3. SET THE PANEL TO THE WALL IN THE DESIRED LOCATION. BE SURE TO PRESS THE BOARD TIGHT TO THE WALL SO THE ADHESIVE WILL SPREAD OUT EVENLY ALONG THE BOARD AND WALL. YOU MAY NEED TO SLIDE THE BOARD BACK AND FORTH SLIGHTLY TO SMOOTH THE ADHESIVE.
4. SECURE PANEL TO THE WALL EITHER WITH BRACES OR MECHANICALLY TO KEEP THE BOARD FROM MOVING AS THE ADHESIVE SETS. TO DO THIS, YOU WILL NEED TO FIND 1x11 STUDS TO PIN NAIL INTO THE STUD THROUGH THE PANEL. NEAR EACH CORNER OF THE PANEL, AND 2-4 THROUGHOUT THE MID-SECTION. THE FINISH PINS ARE VERY THIN AND WILL NOT BE NOTICEABLE, HOWEVER FEEL FREE TO COVER THEM WITH EITHER TOUCH UP PAINT OR PUTTY. WITHOUT THE ADHESIVE THE PINS WILL NOT BE SUFFICIENT TO HOLD THE PANEL TO THE WALL, THEY ARE ONLY INTENDED TO KEEP THE PANEL FROM MOVING WHILE THE ADHESIVE IS CURING.
5. PREFINISHED EDGE TRIM TO MATCH TIRE TRAP PANELS PROVIDED BY MANUFACTURER. INSTALL PER MANUFACTURER INSTRUCTIONS.



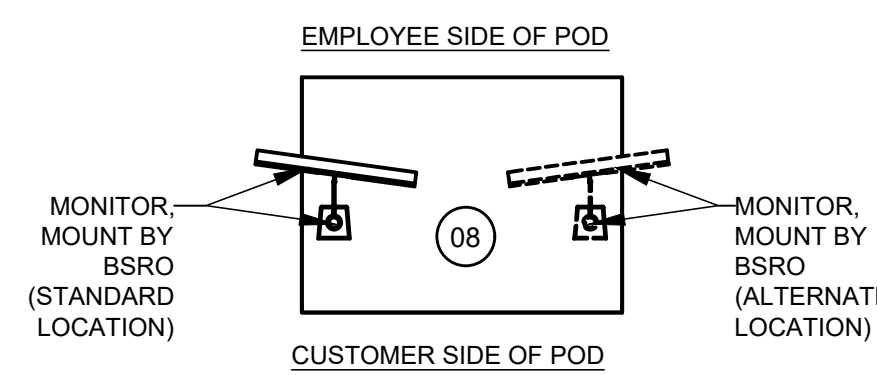
ELEVATION "D"



ELEVATION "E"



ELEVATION "F"



15 SALES POD PLAN
F2 SCALE: 1/2"=1'-0"

DISPLAY FIXTURES & ACCESSORY KEY: FURNISHED BY BSRO U.N.O. ALL ITEMS INSTALLED BY G.C. REFER TO E2/E3/E4/E5 SHEETS FOR FURTHER REQUIREMENTS.		
#	QTY	DESCRIPTION
01	2	2020 LATERAL FILE CREDENZA
02	1	2020 PRINTER CABINET CREDENZA
04	2	2020 PRODUCTIVITY COUNTER
05	1	2020 COFFEE BAR
06	1	2020 TV STAND
08	3	2020 CONSULT POD
10	2	2020 OPEN SIGN
11	1	2020 STORE HOURS SIGN KIT
14	1	KEY DROP BOX, SEE DETAIL 16/A7
15	6	2020 STD LOUNGE CHAIR
17	2	2020 SIDE TABLE
18	1	2020 COFFEE TABLE
19	7	2020 INDUSTRIAL STOOL
20	1	2020 MRT UNIT
21	1	2020 MENU BOARD 43" TV'S WITH 3 SCREEN TV BRACKETS
23	1	2020 LOUNGE SCREEN 43" TV WITH ARTICULATING TV BRACKET
24	1	MANAGER'S CHAIR
25	1	2020 TIRE TREAD WALL PANEL
26	1	2020 FUEL UP SHELF
27	2	2020 FUEL UP SHELF EXTENSION
28	1	2020 FIRESTONE WALL SIGN
32	1	2020 TRIPLE PROMISE WALL STAND OFF
33	1	2020 MAGAZINE RACK
34	1	2020 ASE WALL PLAQUE
35	1	2020 RESTROOM GRAPHICS
35A	3	2020 3 X 4 FATIGUE MAT
35B	3	2020 3 X 5 PERFORMANCE MAT
36	1	MANAGER'S DESK 5'-0"
37	2	COAT RACK
38	1	2020 JOB ENVELOPE WALL BOX
39	1	OVERFLOW BAR
40	2	CLEANING SUPPLY RACK (3'-0" EACH)
41	1	ABOVE GROUND SAFE
42	2	2020 18 GALLON INSIDE TRASH CAN
43	1	2020 10 GALLON INSIDE TRASH CAN
44	1	EXTERIOR WALL MOUNTED SMOKER STATION, MOUNT 48" TO TOP
45	1	2020 34 GAL OUTDOOR TRASH CAN
46	3	2020 CONSULT POD MONITOR ARM & SCREEN
47	6	2020 TIRE TREAD TRIM CAP
50	1	SPECIAL ORDER & PENDING BIN
51	3	2020 15' POWER POLE QPA5210-BFRC
52	1	SAFETY GRAPHIC 24" X 36" MOUNTED 4'-7" A.F.F. ON DOOR
53	1	2020 FIRESTONE BOWTIE SIGN
54	1	PAPER TOWEL DISPENSER (ROLL)
55	1	GOVERNMENT POSTER
56	1	OSHA POSTER
57	1	FOUR DRAWER VERTICAL FILING CABINETS
58	1	WALL MOUNTED FRAME (CERTIFICATE OF OCCUPANCY)
59	1	WALL MOUNTED FRAME (BUSINESS LICENSE)
60	1	SOILED GARMENT CABINET
62	2	HAND SOAP DISPENSER
63	1	HAND GREASE CLEANER DISPENSER
64	1	COMPACT REFRIGERATOR
65	1	MICROWAVE
72	1	WALL MOUNTED IT SERVER CABINET
84	1	MOBILE COAT RACK



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07/10/2020
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2020 ER
3561 SW MARKET ST
JACKSON COUNTY
LEE'S SUMMIT, MISSOURI 64082

STATE OF MISSOURI

MITCH
GARRETT

NUMBER
A-007541

Mitch Garrett

06/30/2020

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c=US, email=mitchgarrettgroup.com,
ou=Architect Group LLC,
ou=Missouri Council
on Architecture
Date: 2020.06.30 12:35:21 -0500

MITCHELL RAY GARRETT - ARCHITECT
MO# A-007541

ISSUE BLOCK		
1	04/16/20	ADD #1
2	06/30/20	CB#1

PROPERTY NO.:	160085
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4 DIGIT NO.:	78C9
AOR PROJECT NUMBER:	1955B71
TO PERMIT:	DATE: 03/26/2020
TO BID:	DATE: ##-##-##

KMP	SHEET TITLE:
	SHOWROOM FIXTURE PLAN & ELEVATIONS
	SHEET NUMBER:

F2

1. GC TO PROVIDE ANY NECESSARY INTERMEDIATE FRAMING FLUSH WITHIN GIRT CAVITY FOR ATTACHMENT OF INTERIOR FINISH MATERIAL.
2. GC TO VERIFY THAT NO METAL BUILDING COMPONENTS ARE WARPED OR DAMAGED PRIOR TO ERECTION.

1. GC TO PROVIDE ANY NECESSARY INTERMEDIATE FRAMING FLUSH WITHIN GIRT CAVITY FOR ATTACHMENT OF INTERIOR FINISH MATERIAL.
2. GC TO VERIFY THAT NO METAL BUILDING COMPONENTS ARE WARPED OR DAMAGED PRIOR TO ERECTION.

- METAL BUILDING WALL PANELS: NRC (NUCOR REVERSE CLASSIC) 24-GAUGE PANEL MINIMUM, PAINTED GALVANIZED OR PAINTED GALVALUME. REFER ELEVATIONS ON SHEET A4.
- METAL BUILDING WALL INSULATION: SIMPLE SAVER, U-0.052
 - MBM CAN PROVIDE INSULATION, IF IT IS SIMPLE SAVER
- ON NON-INSULATED PANELS, MBM TO PROVIDE BASE CLOSURES, BUT NO BASE FLASHING.

- METAL BUILDING ROOF PANELS: CFR 24 POLAR WHITE
- METAL BUILDING BACKER PANELS: CFR 26 POLAR WHITE
- METAL BUILDING ROOF INSULATION: SIMPLE SAVER U=0.031 MBM TO PROVIDE ROOF CLIPS AND THERMAL BLOCKS AS REQUIRED.
 - MBM CAN PROVIDE INSULATION, IF IT IS SIMPLE SAVER
- MBM TO PROVIDE ROOF CURBS AND REINFORCING FOR ROOF TOP MECHANICAL EQUIPMENT (STL EXHAUST FAN ETC) 14" HIGH CURB. REF MECHANICAL DRAWINGS
- MBM TO PROVIDE ROOF FLASH CURB AND REINFORCING FOR FLASH.

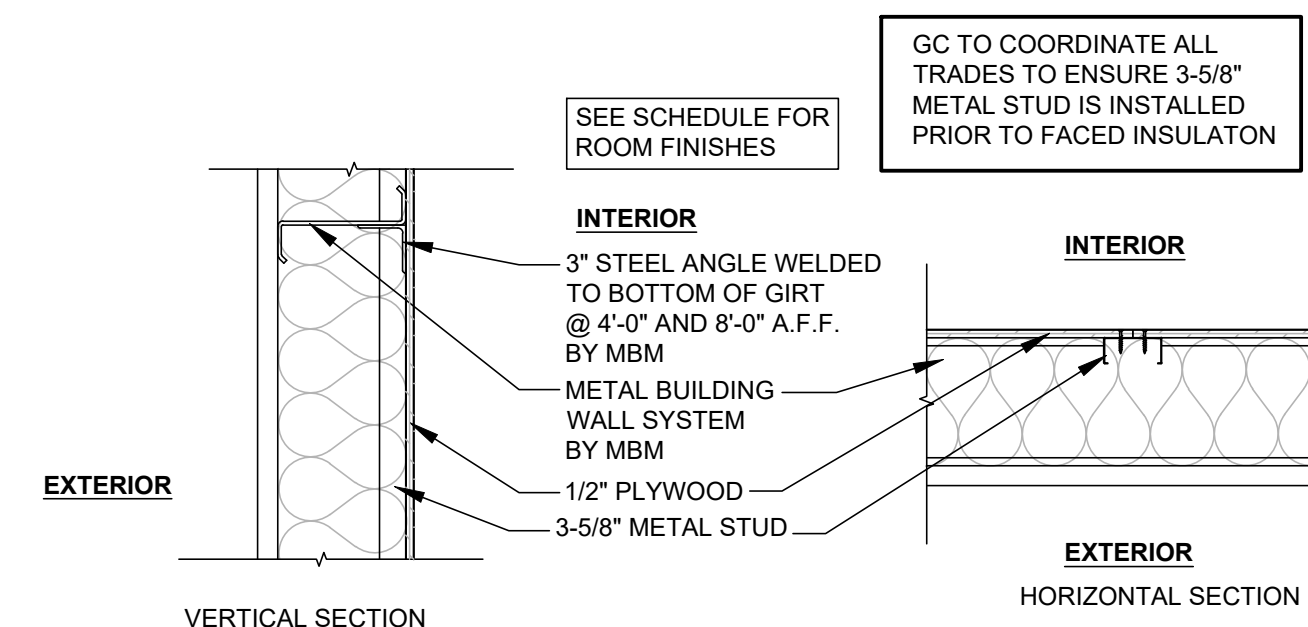
- GIRTS WITH NRC: 8" WIDE METAL BUILDING GIRTS MAXIMUM 2'-0" O.C., TO BE FLUSH WITH THE WALL CAVITY
- MBM TO TIE DOWN GIRTS AT 12' AFF. MBM TO PROVIDE 3" STEEL ANGLE ATTACHED TO GIRTS AT 4' AND 8' AFF GIRTS FOR INSTALLATION OF PLYWOOD.
- WITH PARAPET GUTTER, GIRTS MUST BE PLACED TO ALLOW PLACEMENT FOR SCUPPERS AND OVERFLOW SCUPPERS. REFER TO A4 SHEET.
- C CHANNEL AT PARAPET CAP TO BE PROVIDED TIE DOWN.
- MBM TO PROVIDE CONTINUOUS C CHANNEL AT CONCRETE SLAB - INCLUDING BETWEEN THE COLUMNS AND O.H. DOOR JAMBS.
- MBM TO ENSURE ACCURACY OF THE ALIGNMENT OF THE C CHANNELS THE COLUMN FACE.
- MBM TO PROVIDE HORIZONTAL GIRTS BETWEEN O.H. DOORS.
- GIRTS MUST BE PROVIDED CONSISTENTLY AROUND THE BUILDING.

- COLUMN LINE 2 - ALL COLUMNS IN SHOWROOM TO BE STRAIGHT COLUMNS.
- COLUMNS IN BATHROOMS TO BE SUPERMARKET COLUMNS THAT START TAPERING AT MINIMUM 10" AFF.
- ALL METAL BUILDING COLUMNS AS SHOWN ON SHEETS A1 AND S2 ARE SET AND TO BE PROVIDED AS NOTED. NO COLUMN CHANGES EXCEPT IF SPECIFIC SITE CONDITIONS REQUIRE CHANGES.
- ALL METAL BUILDING MAINFRAME COLUMNS TO BE TAPERED UNLESS NOTED OTHERWISE AND HAVE A MAXIMUM BASE PLATE AT CONCRETE SLAB OF 14" DEEP.
- COLUMN LINES 3-6 SERVICE BAY, PROVIDE OVERHEAD CLEARANCE OF 15'-6" MINIMUM ON HIGH EAVE, 14'-6" MINIMUM ON LOW EAVE.
- REFER TO SHEET S2 FOR BRACING LOCATIONS THAT WERE ASSUMED BY STRUCTURAL IN PRELIMINARY DESIGN. NO BRACING CHANGES EXCEPT IF SPECIFIC SITE CONDITIONS REQUIRE CHANGES.
- NO FIXED BASE BRACING ALLOWED.
- MBL TO CENTER ANCHOR BOLTS ON COLUMNS AT THE PORTAL FRAMES.
- ALL BRACING TO BE WITHIN THE GIRT SPACING.
- NO FLANGE BRACES ALLOWED ON COLUMNS.
- ENDWALL COLUMNS 8" DEEP MAX - FLUSH WITH GIRTS.

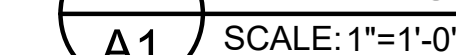
- AT ALL AWNING/CANOPY LOCATIONS, MBM TO PROVIDE MINIMUM OF ONE BOX BEAM AT TOP AND BOTTOM. REFER TO A4 SHEET.
- INTERMEDIATE SUPPORTS FOR ALL EXTERIOR WALL LOUVER/VENT OPENINGS TO BE PROVIDED BY MBM.
- MBM TO PROVIDE STEEL ANGLE ATTACHED TO TOP OF O.H. DOOR FRAME MEMBER FOR ATTACHMENT OF O.H. DOOR BLOCKING. REFER TO DETAIL 15/A7.
- ENSURE OPENING IN METAL BUILDING IS PROVIDED FOR KEY DROP BOX. REFER TO DETAIL A4.1 SHEET FOR LOCATION.
- ALL HOLLOW METAL DOOR OPENINGS TO BE 3'-4 1/2" OR 4'-4 1/2" WIDE BY 7'-4 1/2" TALL.
- ALL ROUGH OPENINGS AS NOTED ON SHEET A1.1 ARE NOT ALLOWED TO BE REDUCED FOR METAL BUILDING TRIM OR FLASHING.
- MBM TO PROVIDE NECESSARY ANGLES BETWEEN THE COLUMNS AND THE O.H. DOOR JAMBS.
- CONNECTIONS BETWEEN O.H. DOOR VERTICAL CHANNELS AND HEADER CHANNELS CANNOT BE EXPOSED.

- 20-YEAR WEATHER TIGHTNESS WARRANTY ON ROOF.
- 25-YEAR FINISH WARRANTY FOR GALVANIZED/GALVALUME PANELS.
- BUILDING WARRANTY - 1-YEAR.

- MEET MBDP CRITERIA PROVIDED BY STRUCTURAL AT THE START OF THE PROJECT.
- MBM TO PROVIDE ROOF PIPE JACKS.
- MBM TO PROVIDE 2 INSPECTIONS. 1 PRE-ERECTION MEETING AND 1 FINAL INSPECTION OF THE METAL BUILDING (MIN. 30 DAYS FROM CONSTRUCTION COMPLETION). TO INCLUDE A DETAILED LIST OF ITEMS NOT ERECTED CORRECTLY.
- ALL SIGN LOCATIONS, GC TO PROVIDE BLOCKING FOR ATTACHMENT. MBM DOES NOT NEED TO PROVIDE ADDITIONAL GIRT FOR SIGNAGE.
- RED OR GRAY PRIMER STRUCTURE.
- ALL GIRTS/CHANNELS/SECT. MUST BE STEEL.
- ON PROJECTS WITH NON-INSULATED PANELS, MBM TO PROVIDE STRAPS/CLIPS FOR THE INSULATION IN THE WALLS.

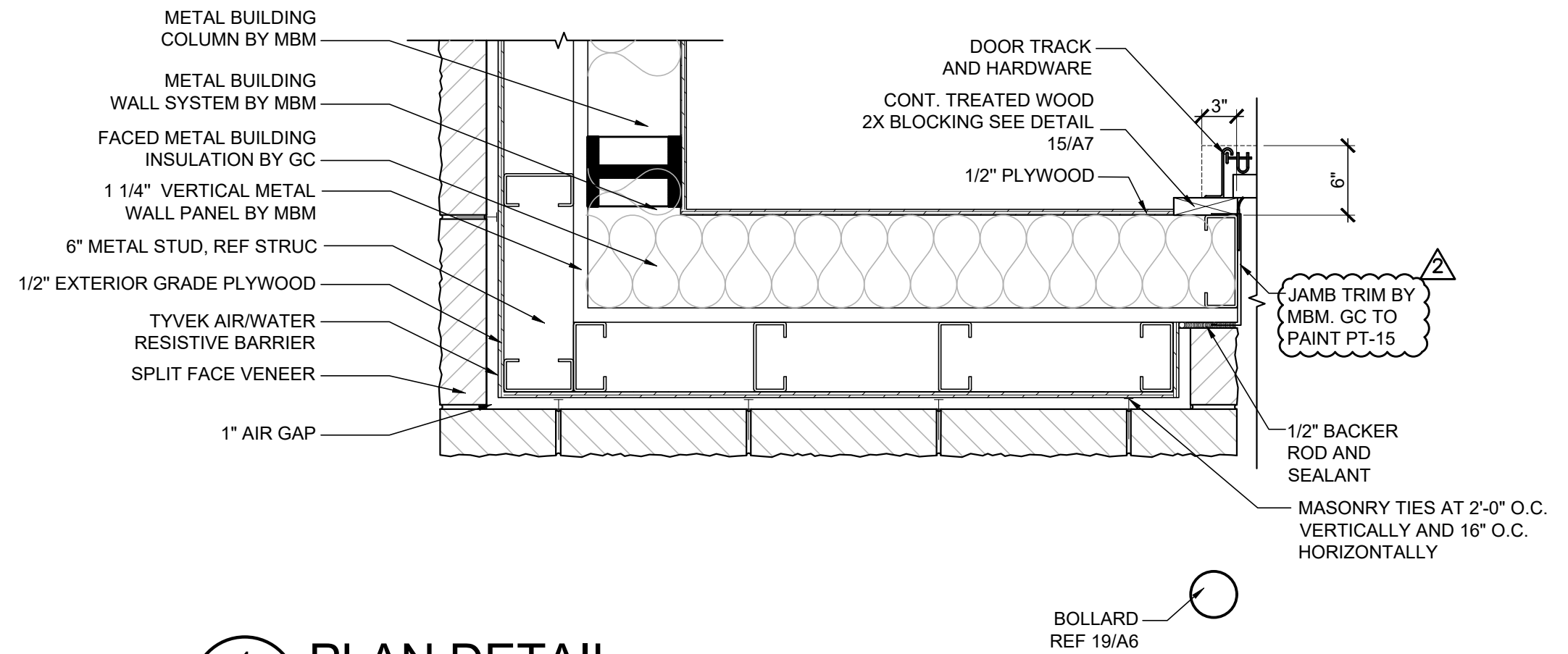


A1 SCALE: 1"=1'-0"

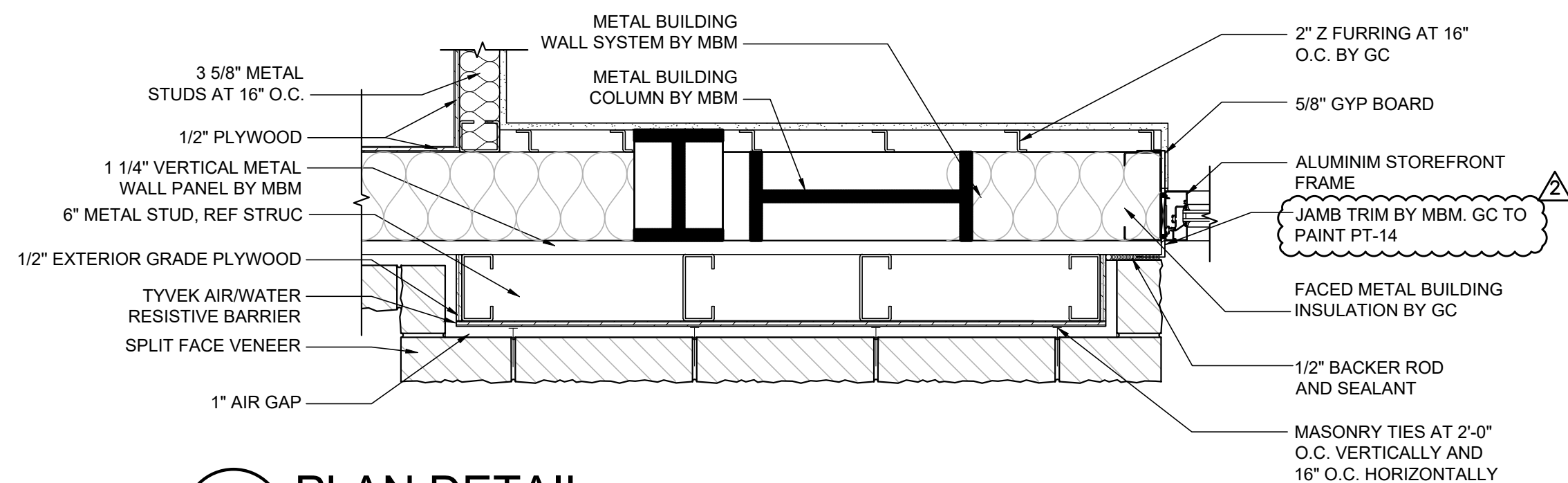


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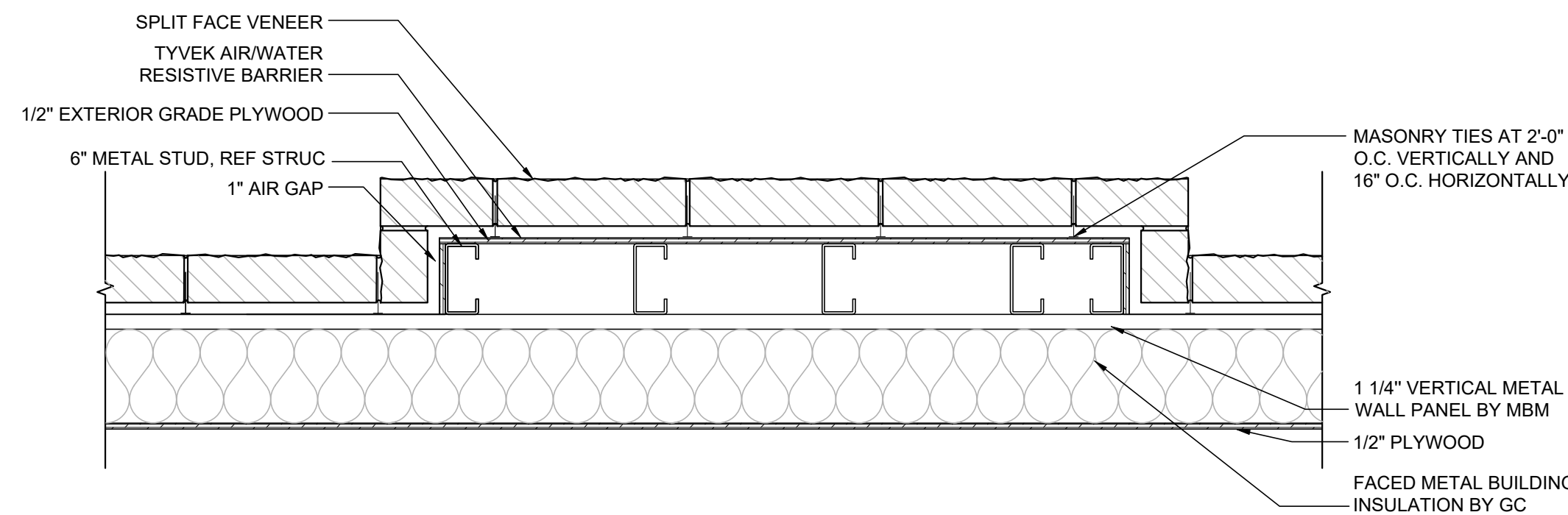
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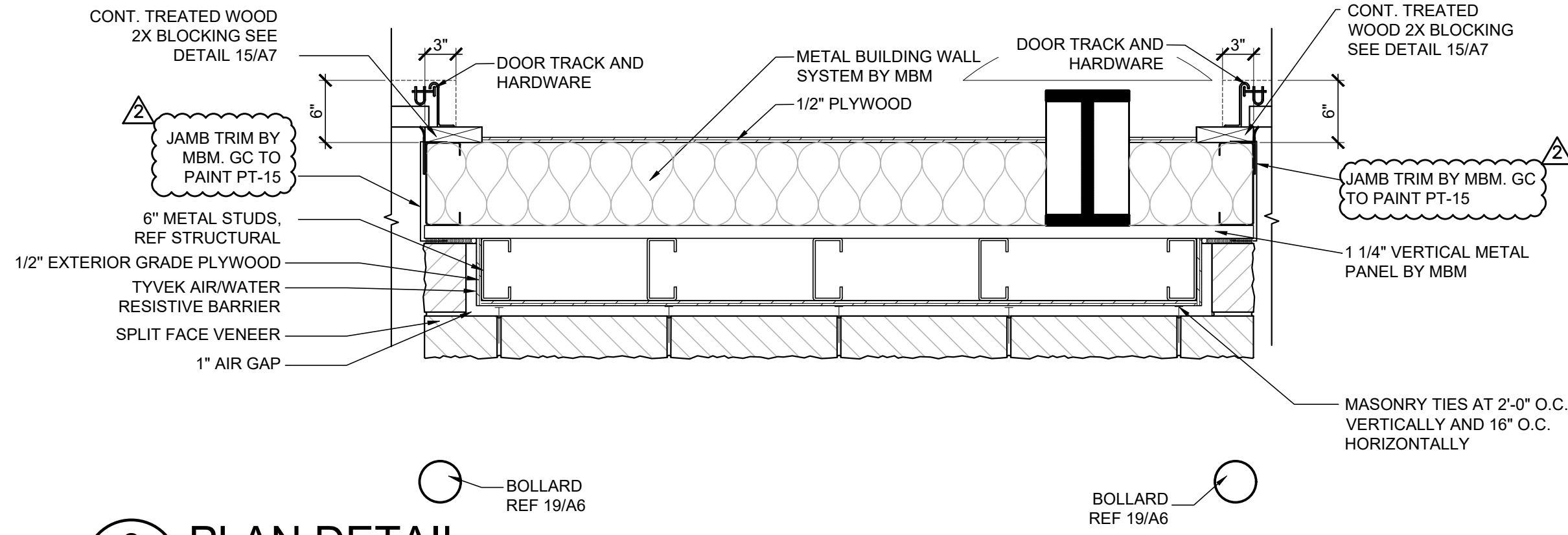
1 PLAN DETAIL
A1.2 SCALE: 1"=1'-0"



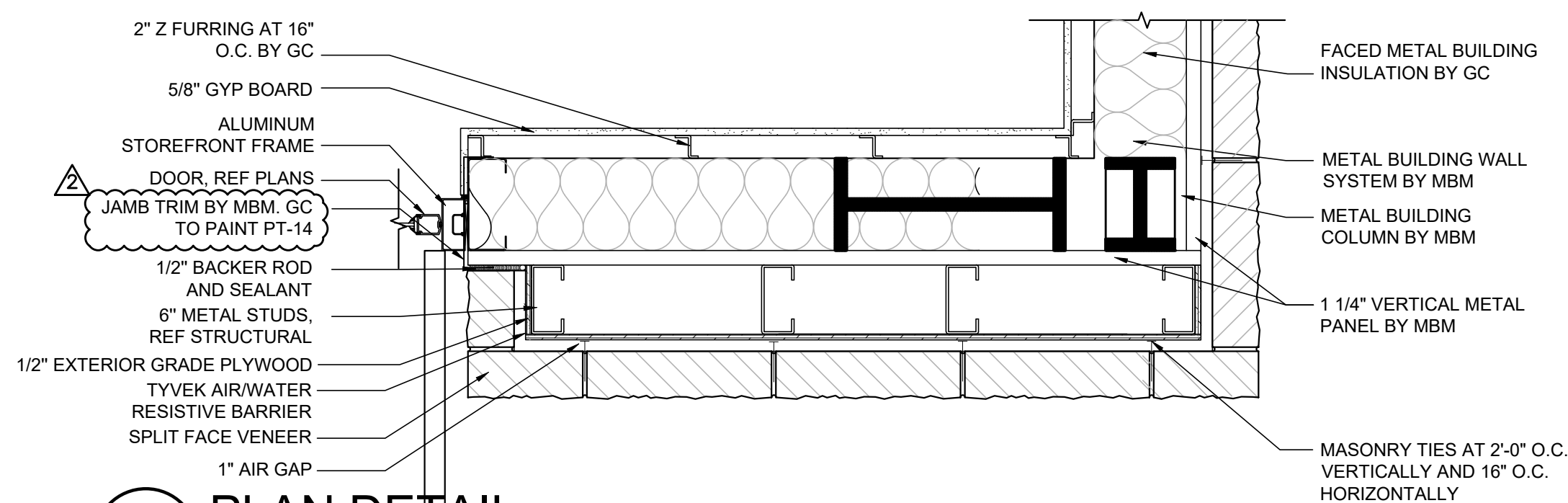
3 PLAN DETAIL
A1.2 SCALE: 1"=1'-0"



5 PLAN DETAIL
A1.2 SCALE: 1"=1'-0"



2 PLAN DETAIL
A1.2 SCALE: 1"=1'-0"



4 PLAN DETAIL
A1.2 SCALE: 1"=1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

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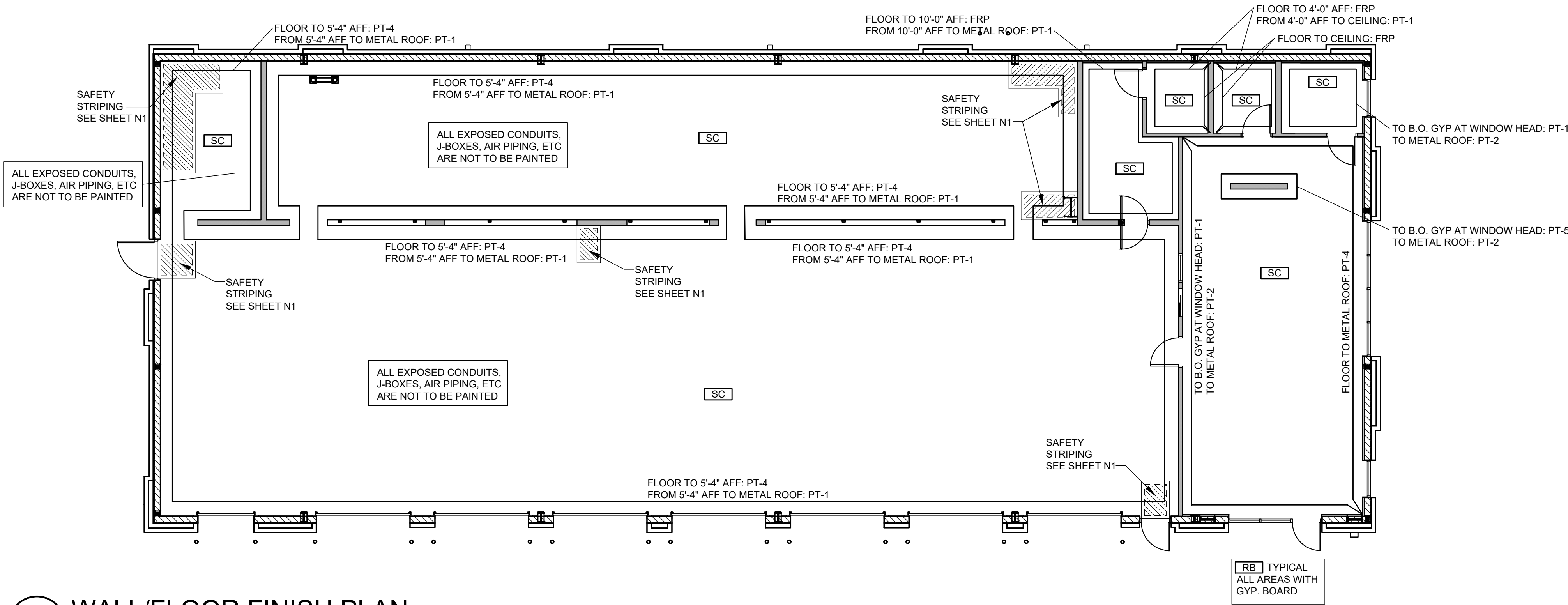
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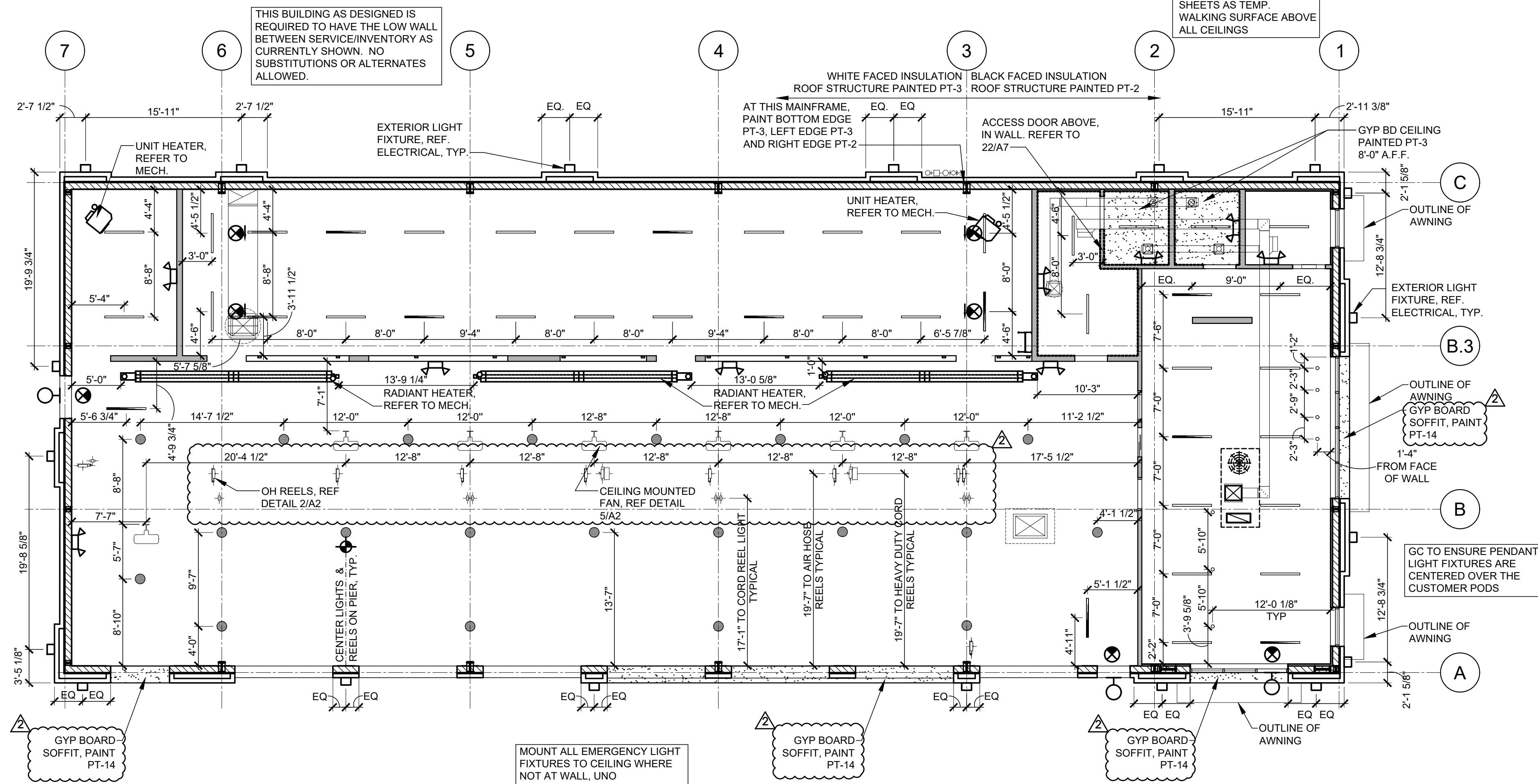
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TO PERMIT: DATE: 03/26/2020
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KMP
SHEET TITLE:
ENLARGED
PLAN DETAILS
SHEET NUMBER:
A1.2



1
A2 WALL/FLOOR FINISH PLAN
SCALE: 1/8"=1'-0"

REFLECTED CEILING PLAN NOTES:
1. LOCATE LIGHT FIXTURES CENTERED IN THE ROOM OR OVER DOOR AS APPLIES, UNLESS DIMENSIONS NOTE OTHERWISE.
2. SEE MECHANICAL AND ELECTRICAL SHEETS FOR SYMBOL SPECIFICATION.



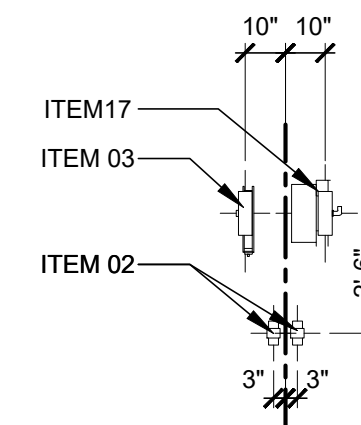
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A2 REFLECTED CEILING PLAN
SCALE: 1/8"=1'-0"

FLOOR FINISH KEY

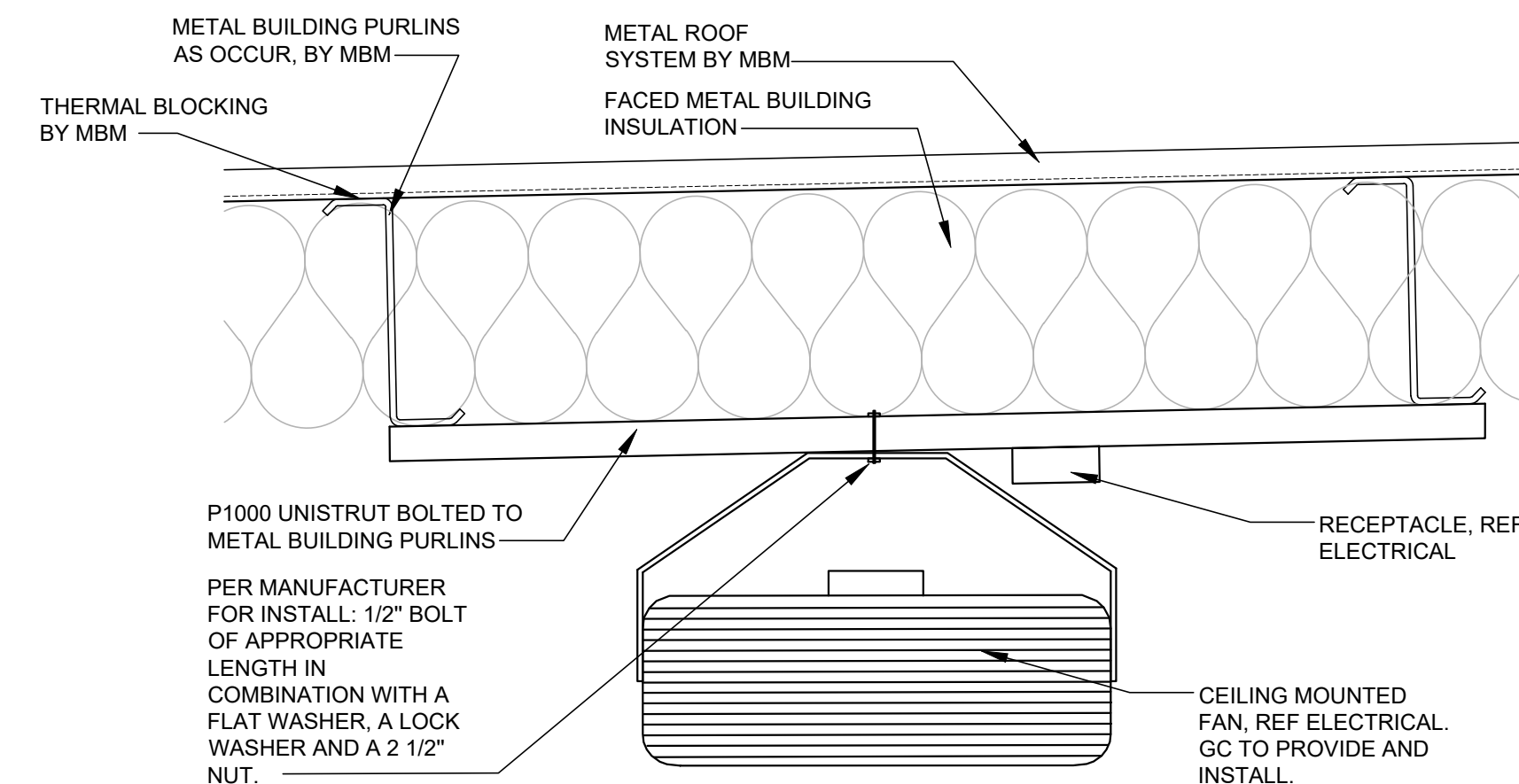
NOTE: SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR, UNLESS OTHERWISE NOTED.

SC: SEALED CONCRETE, REFER TO SPECIFICATION

RB: RESILIENT BASE: 6" WALL BASE (BLACK)



2
A2 ENLARGED EQUIPMENT DETAIL
SCALE: 1/4"=1'-0"



5
A2 CEILING MOUNTED FAN
SCALE: 1 1/2"=1'-0"

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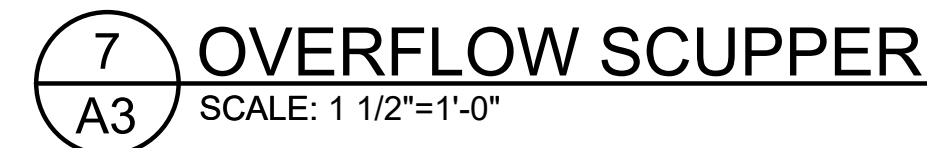
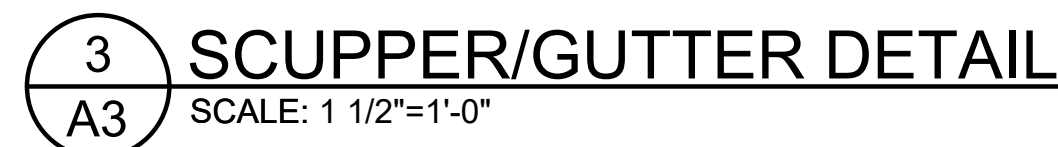
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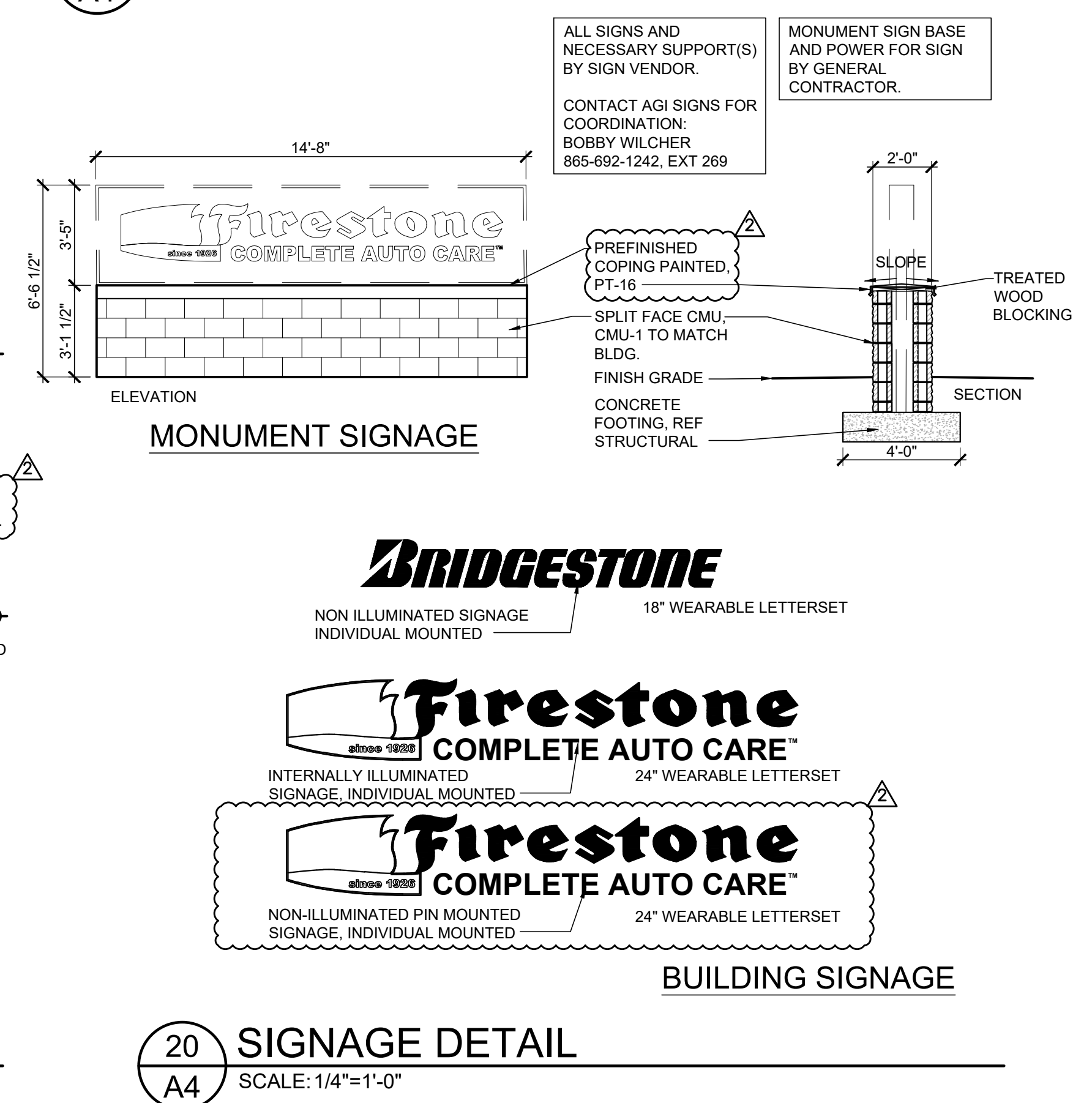
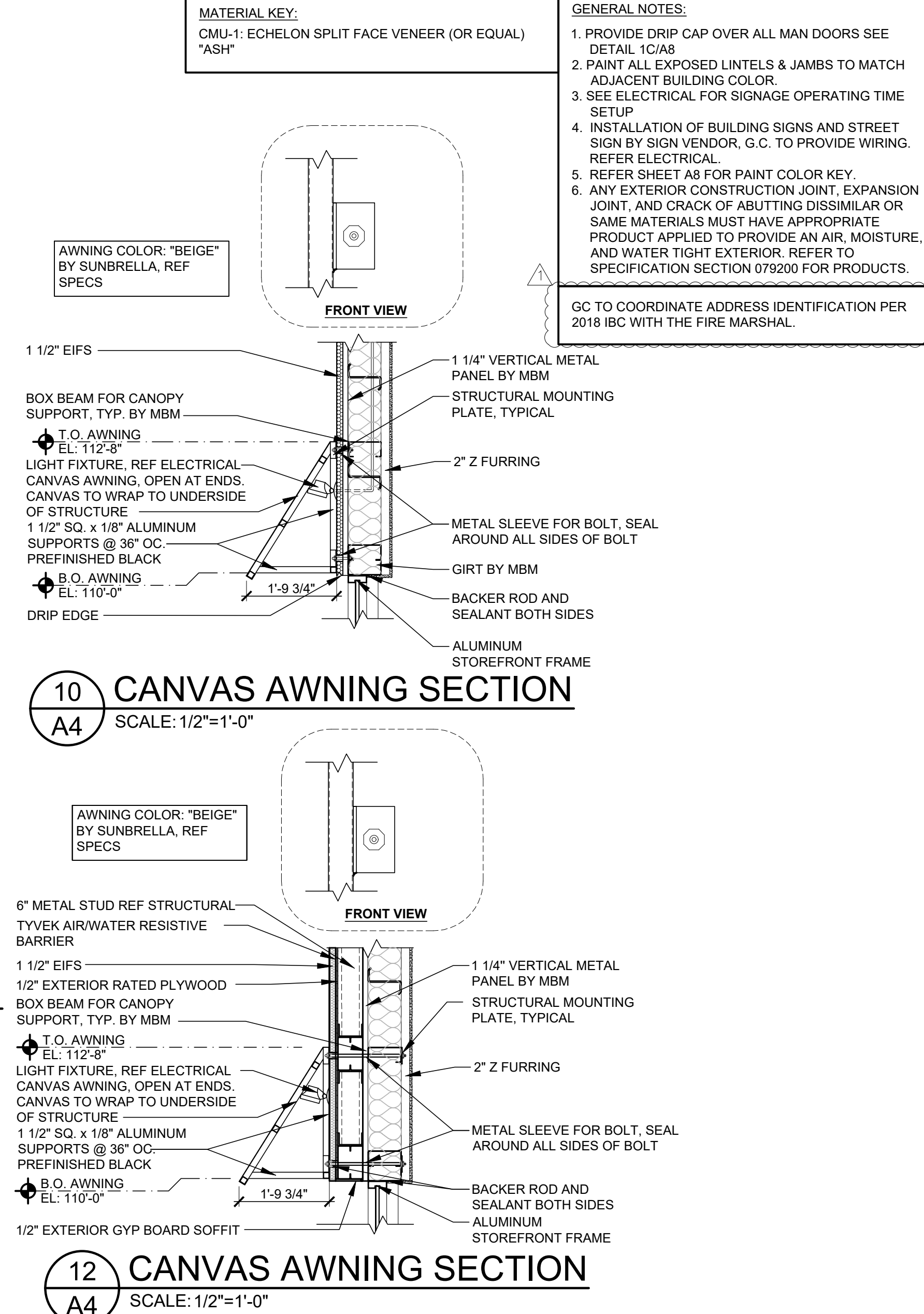
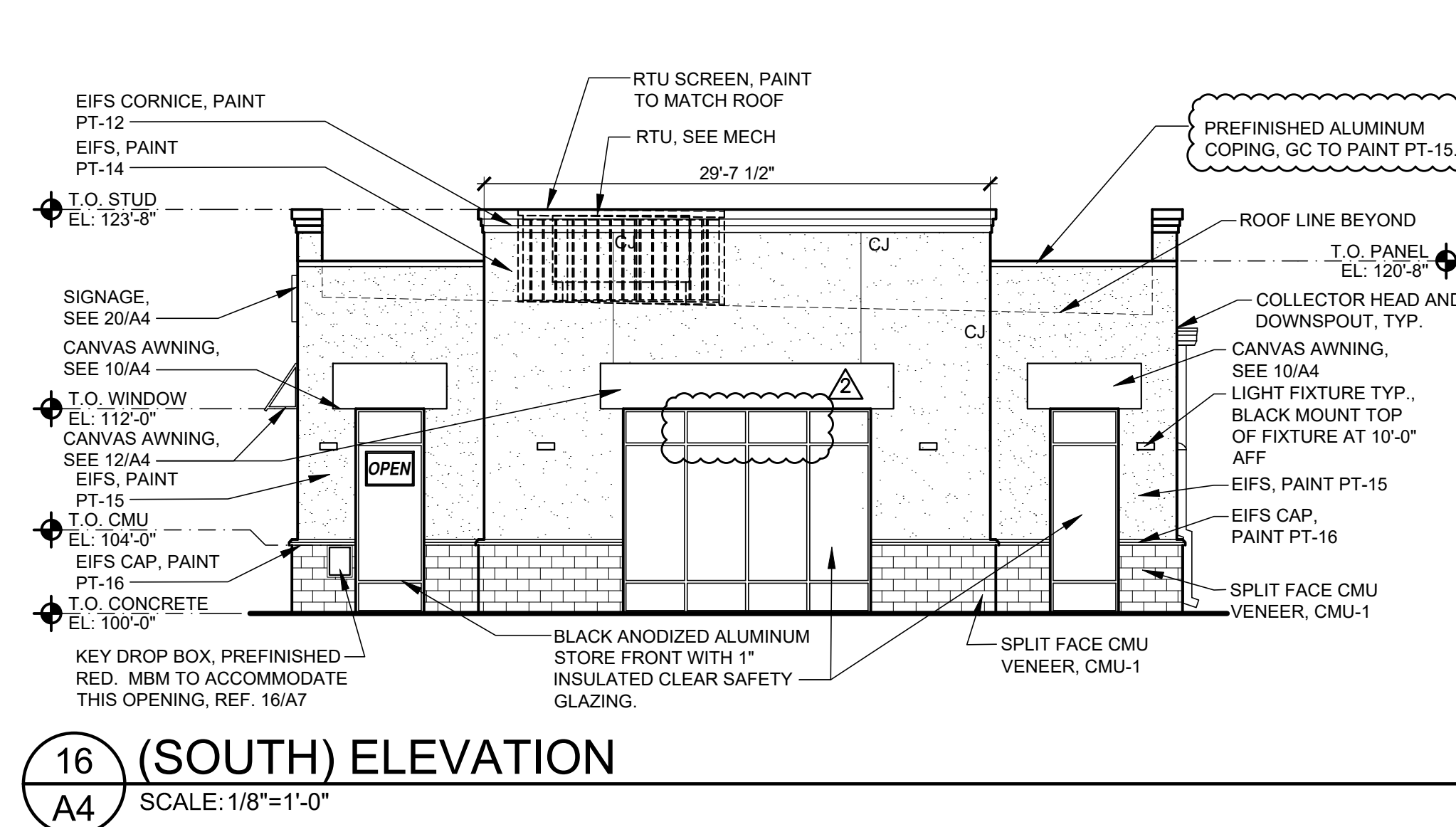
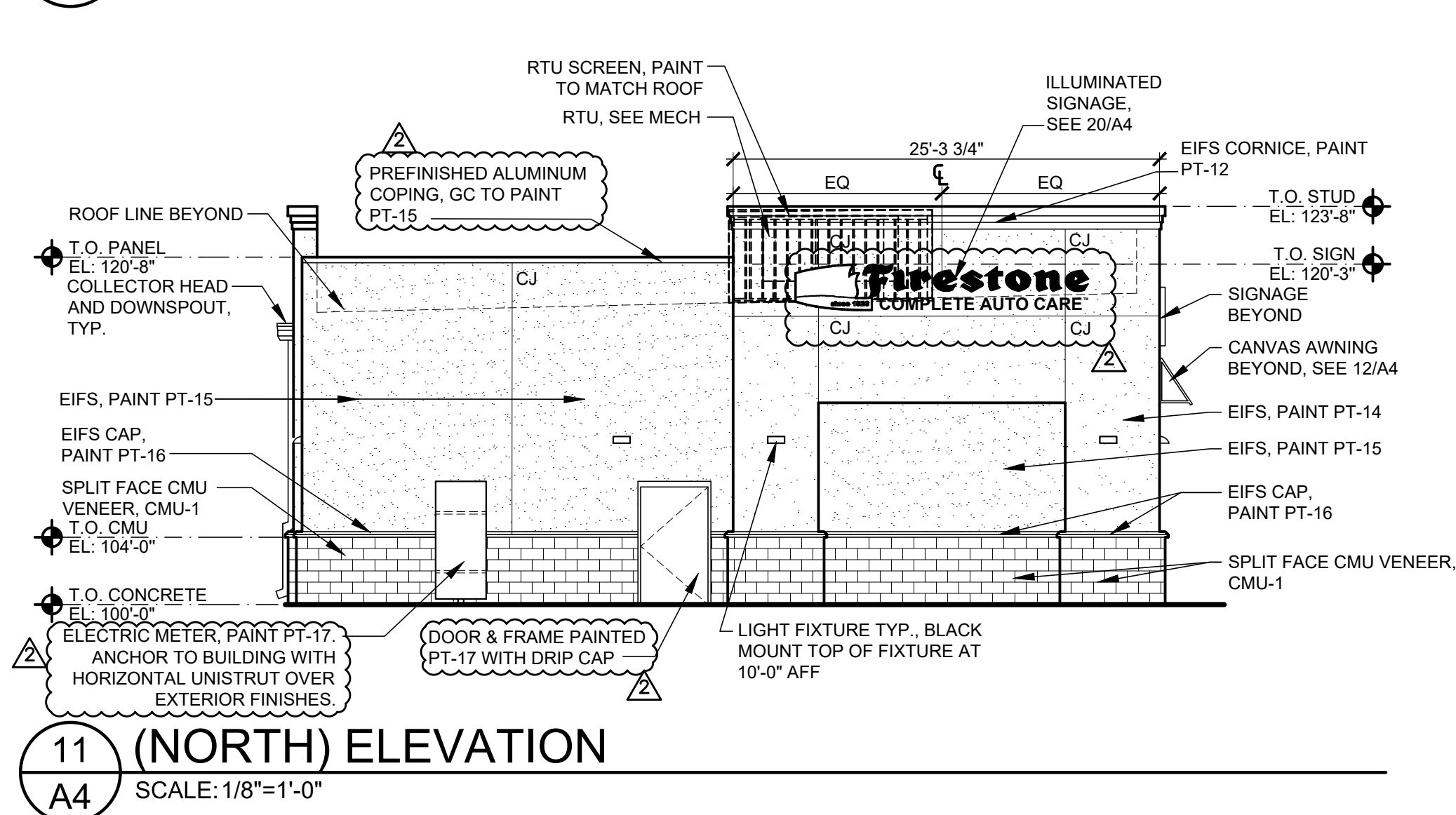
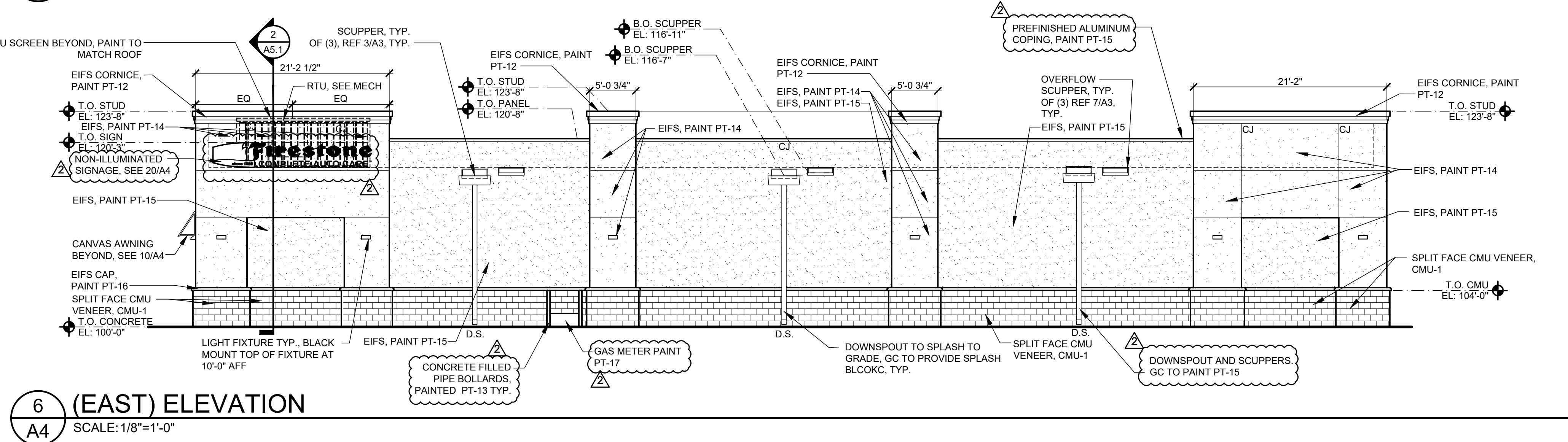
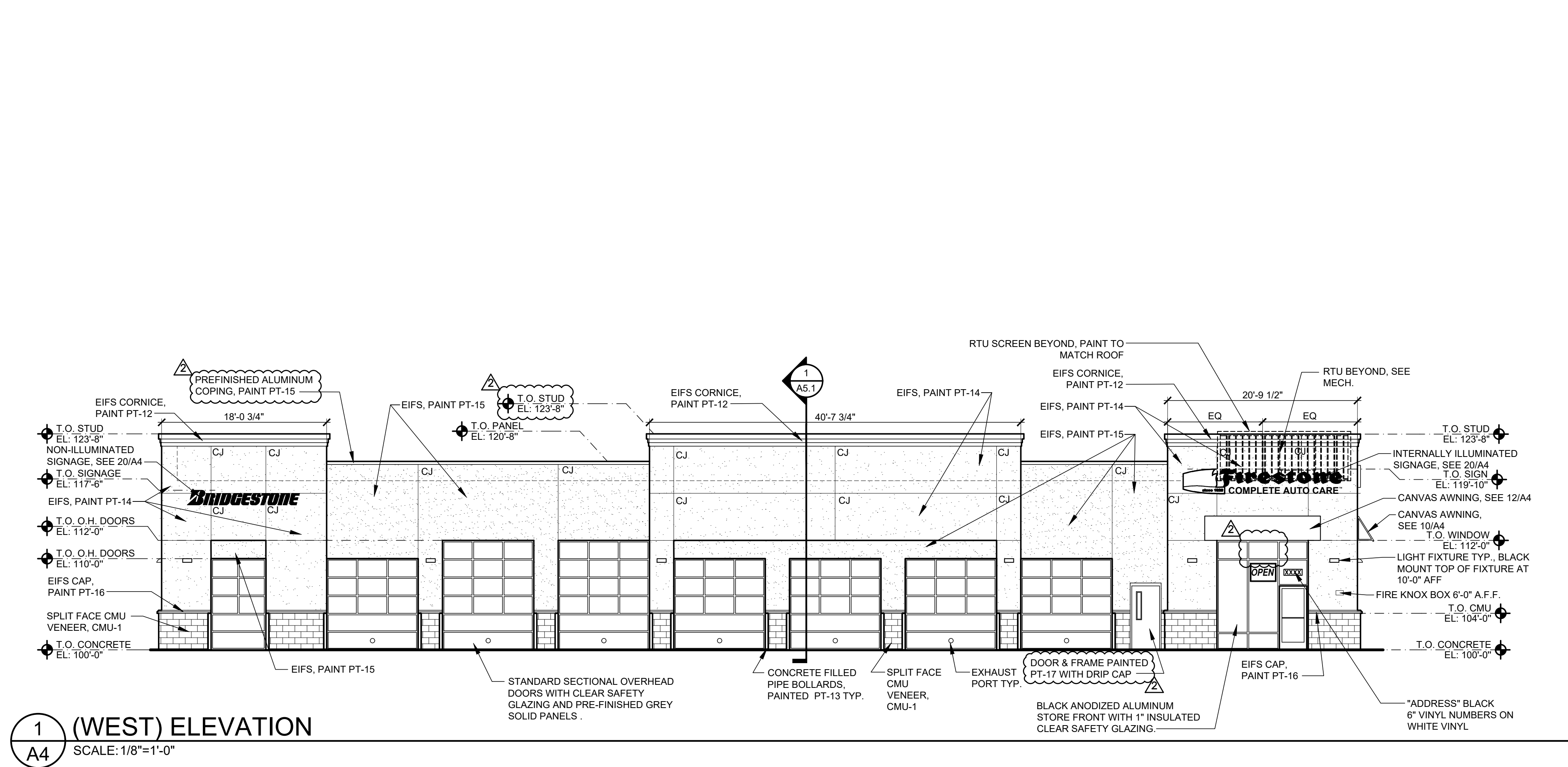
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SHEET TITLE:
REFLECTED
CEILING &
FINISH PLAN
SHEET NUMBER:
A2



ROOF DRAINAGE CALCULATIONS PRIMARY AND SECONDARY DRAINS



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Certificate of Authority #A-2008031444
Architecture

Firestone COMPLETE AUTO CARE

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NEW FCAC STORE
2020 ER
3561 SW MARKET ST
JACKSON COUNTY
LEE'S SUMMIT, MISSOURI 64082

STATE OF MISSOURI
MITCH GARRETT
NUMBER A-007541
ARCHITECT

06/30/2020

Digitally signed by Mitchell Garrett
DN: cn=MITCH GARRETT, o=SGA Design Group, Inc., email=mgarrett@sgadsgroup.com, c=US
Mitchell Garrett
MITCHELL RAY GARRETT - ARCHITECT
MOP A-007541

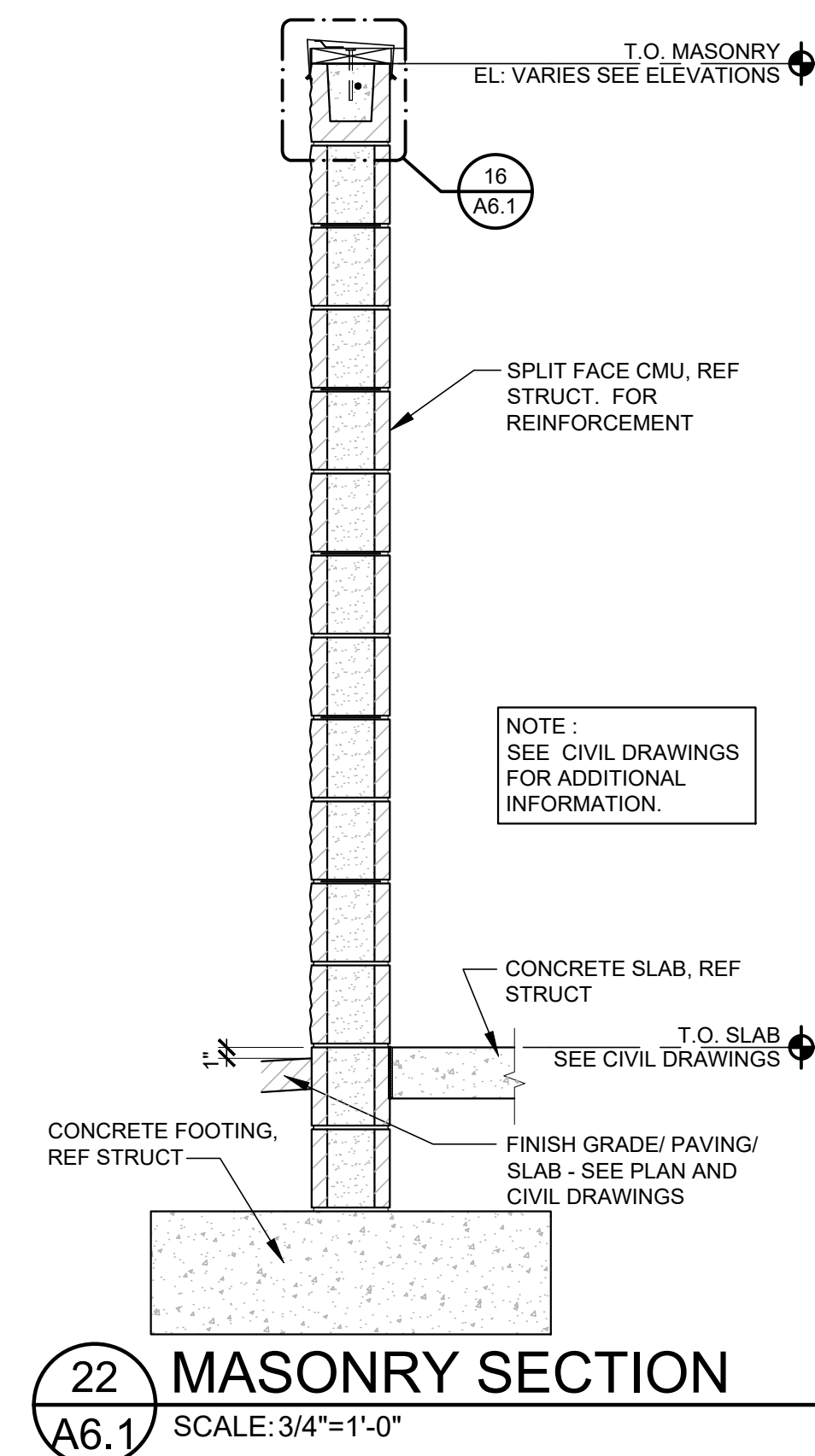
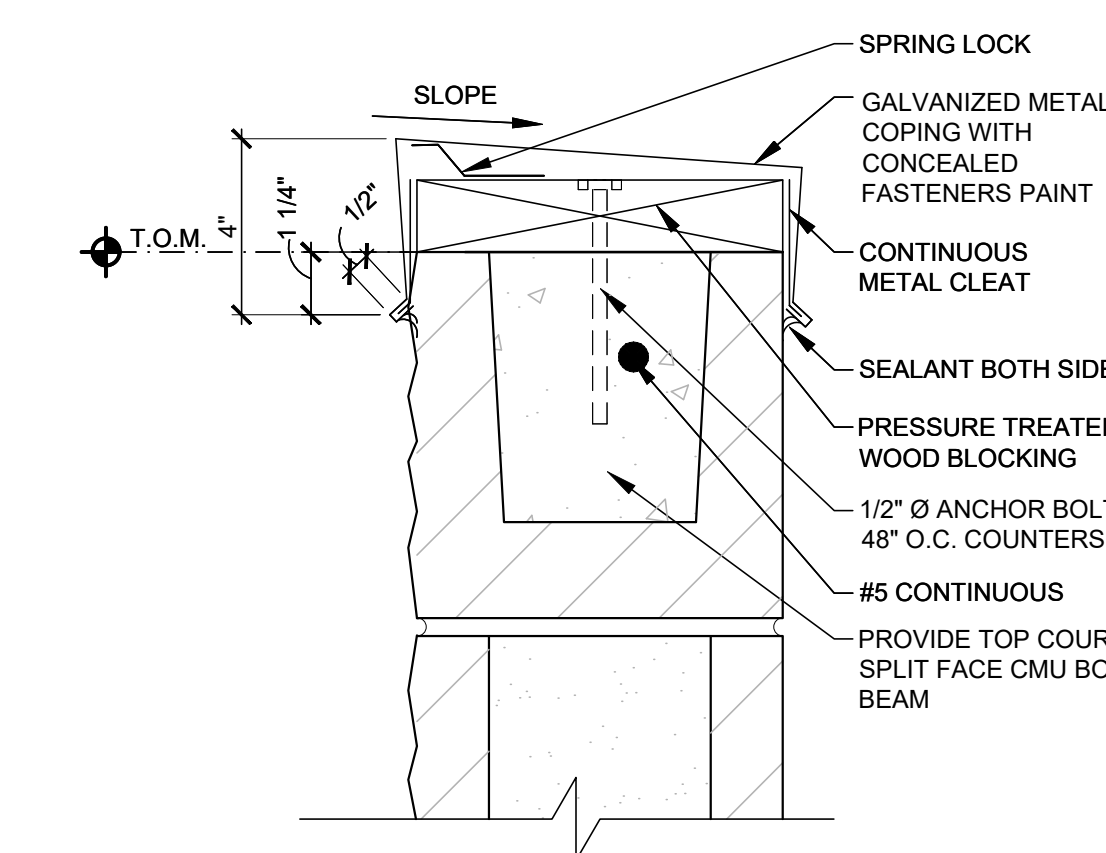
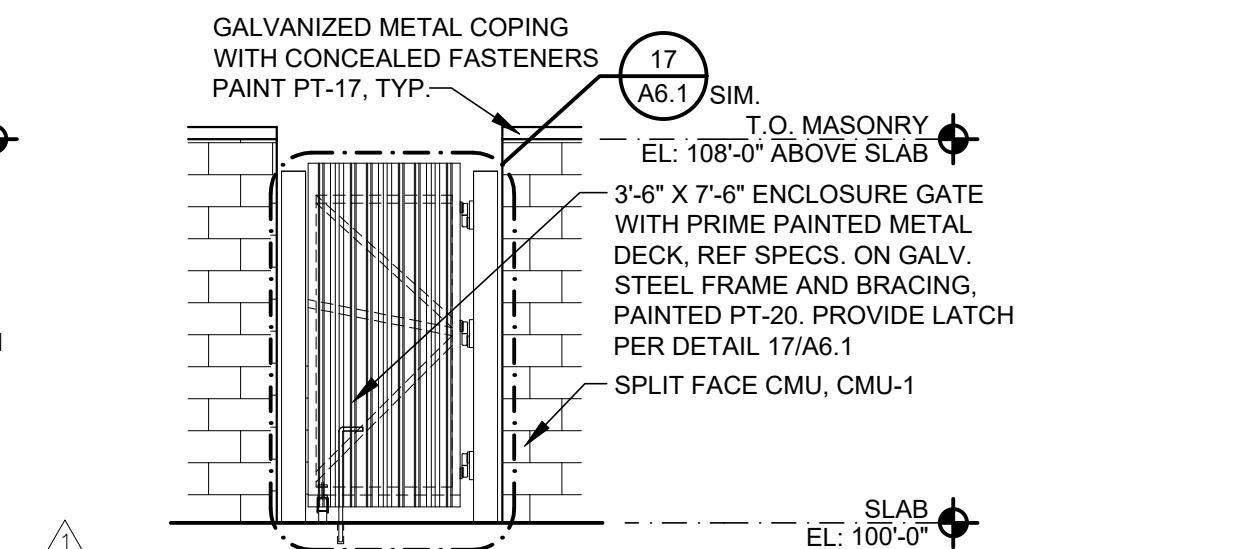
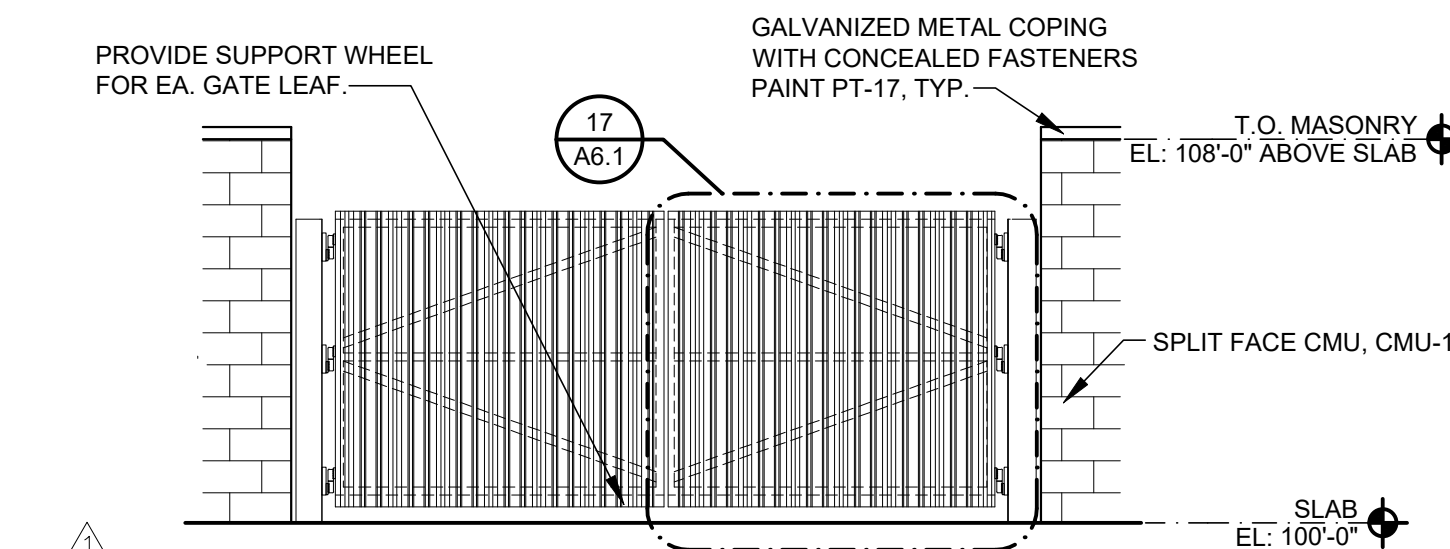
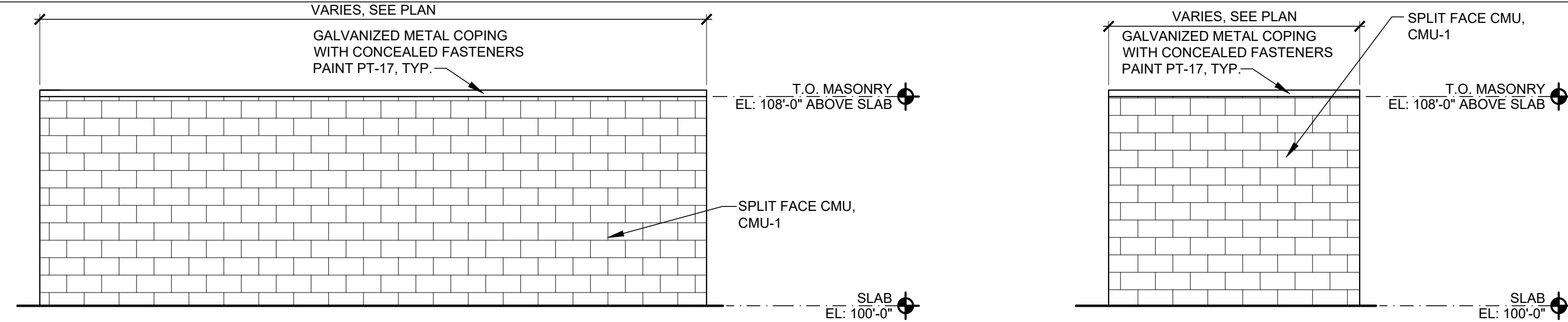
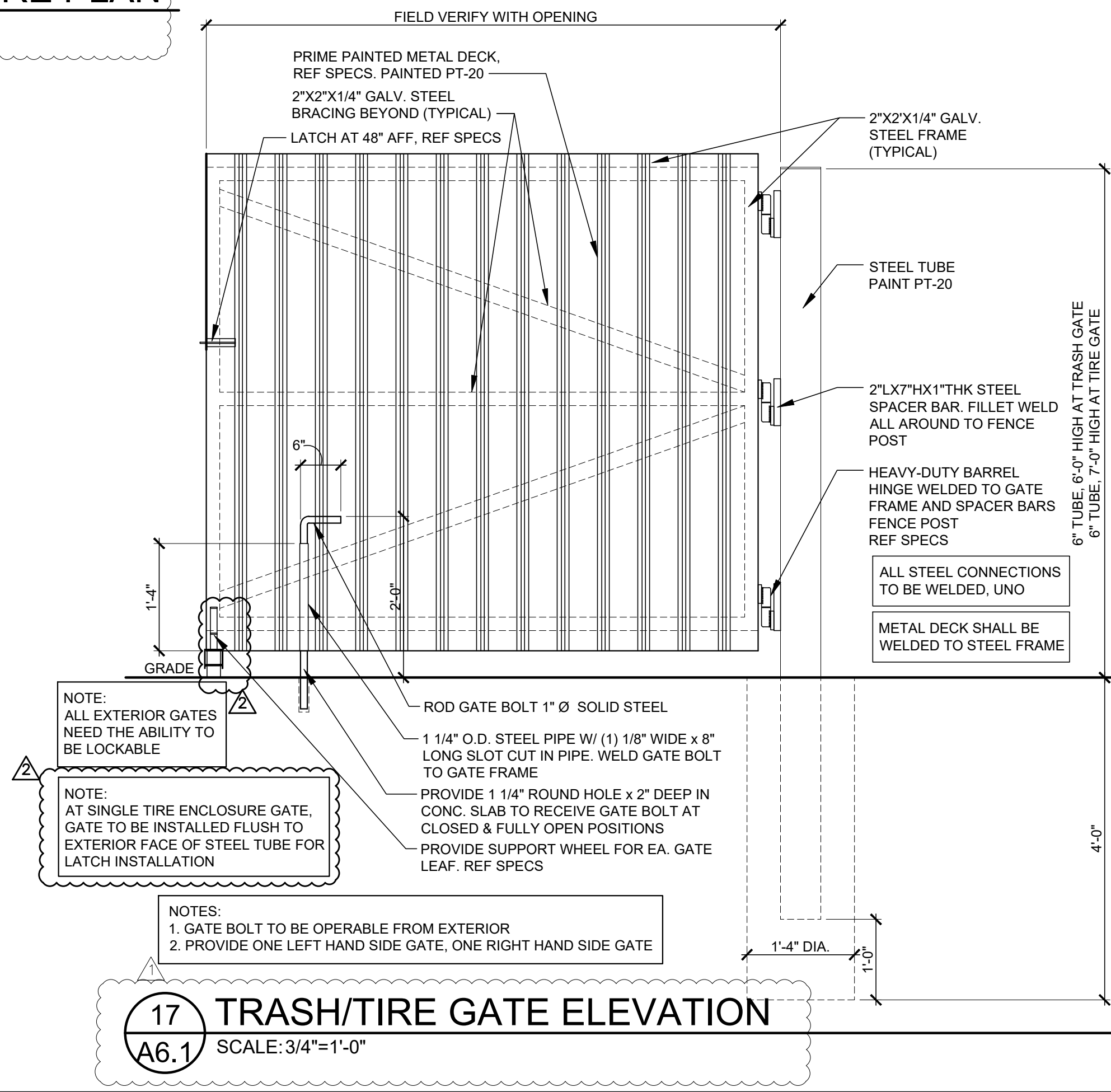
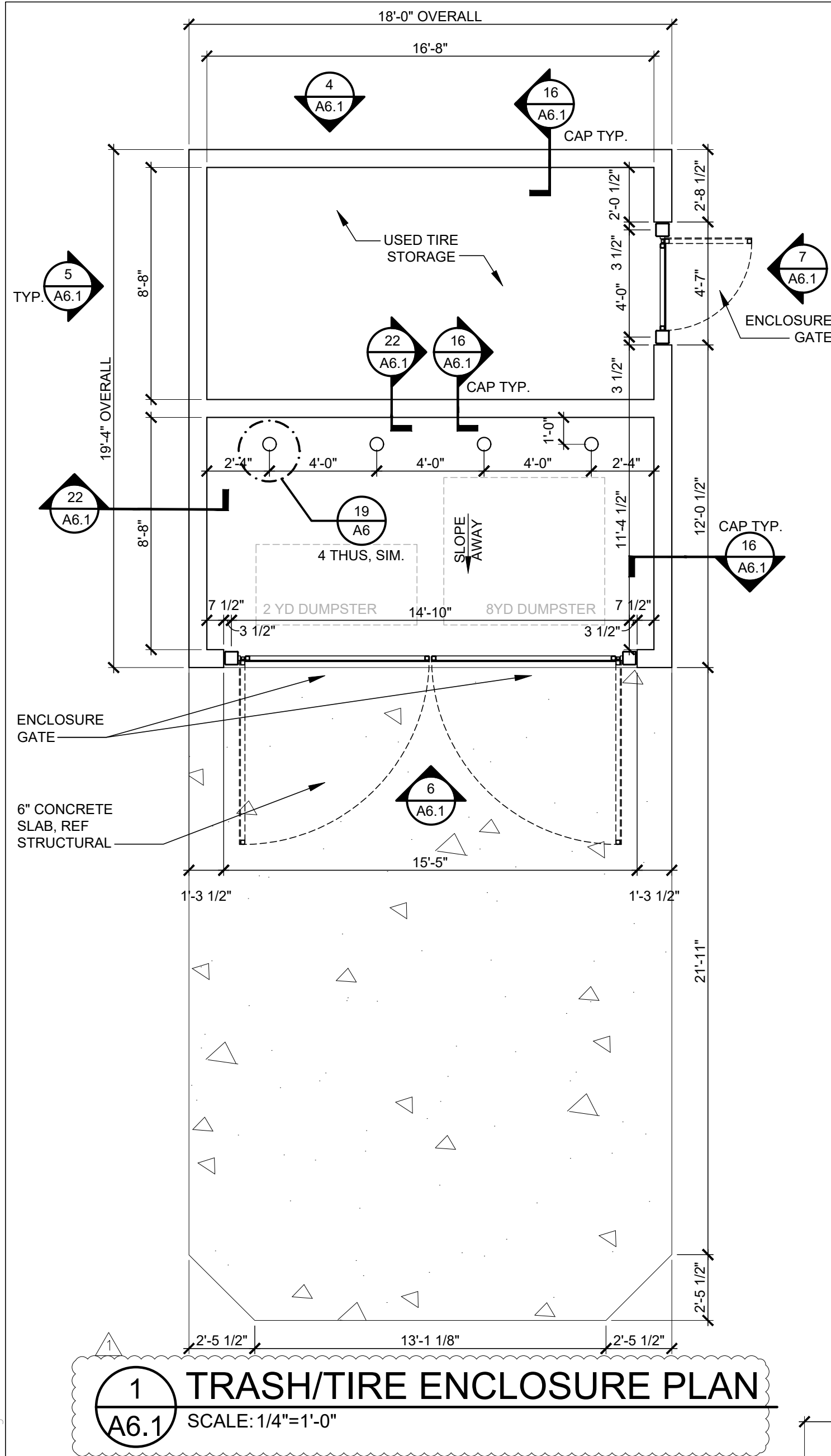
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	DATE	ADD	#1
1	04/16/20		
2	06/30/20	CB	#1

PROPERTY NO.: 160085
6 DIGIT NO.: 906983
4 DIGIT NO.: 78C9
AOR PROJECT NUMBER: 1955B71
TO PERMIT: DATE: 03/26/2020
TO BID: DATE: ###-###-###
KMP

SHEET TITLE:
EXTERIOR ELEVATIONS & DETAILS

SHEET NUMBER:
A4



RELOCATION FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

07/10/2020

SGA Design Group, P.C.

1437 South Boulder, Suite 550

Tulsa, Oklahoma 74119-3609

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Architecture

Firestone

COMPLETE AUTO CARE

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NEW FCAC STORE

2020 ER

3561 SW MARKET ST

JACKSON COUNTY

LEE'S SUMMIT, MISSOURI 64082

STATE OF MISSOURI

MITCH GARRETT

NUMBER A-007541

06/30/2020

Mitchell Garrett

Digitally signed by Mitchell Garrett

DN: cn=

Signature

MITCHELL RAY GARRETT - ARCHITECT

MO# A-007541

ISSUE BLOCK

		04/16/20	ADD	#1
		06/30/20	CB	#1

PROPERTY NO.:

160085

6 DIGIT NO.:

906983

4 DIGIT NO.:

78C9

AOR PROJECT NUMBER:

1955B71

TO PERMIT:

DATE: 03/28/2020

TO BID:

DATE: ###-##-##

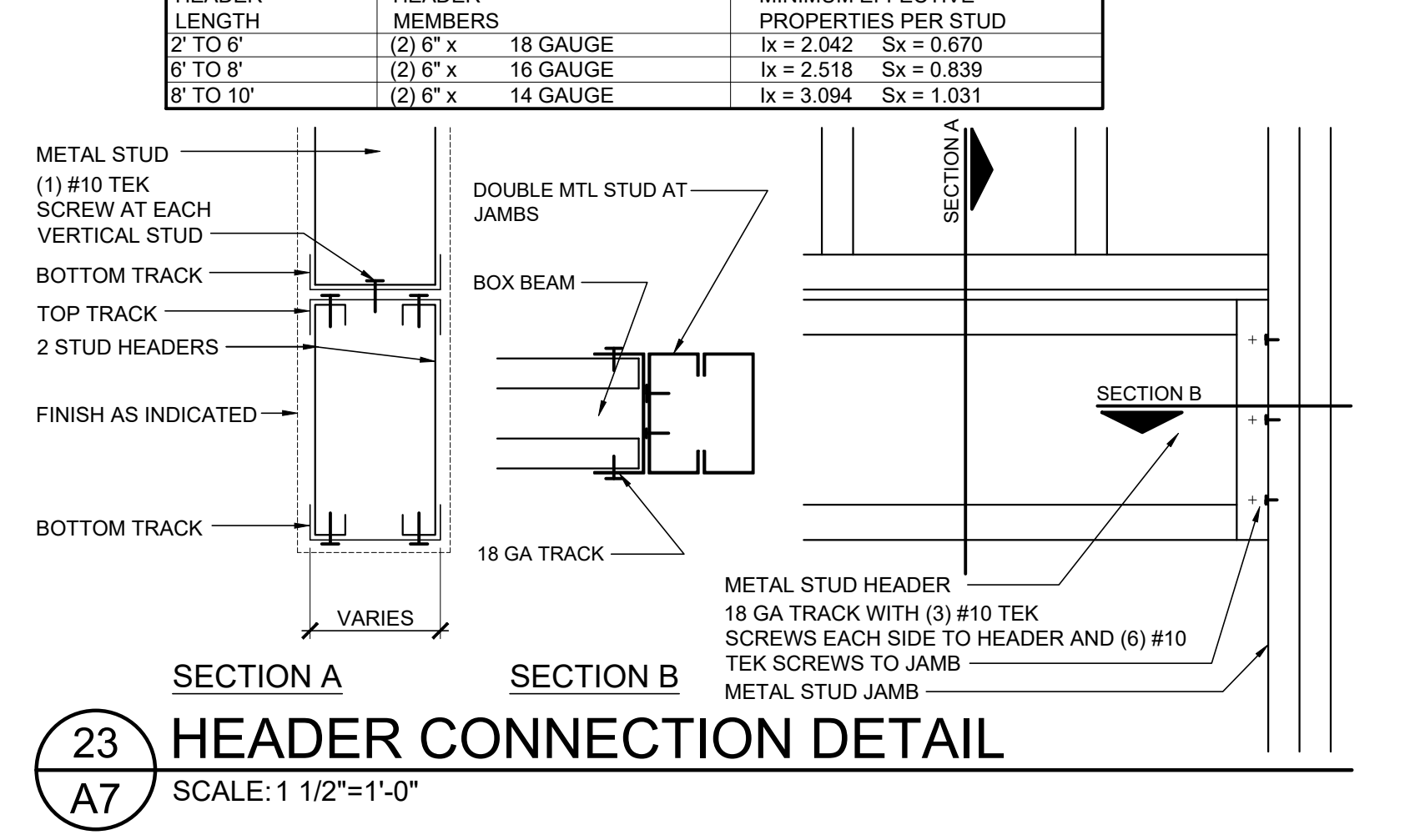
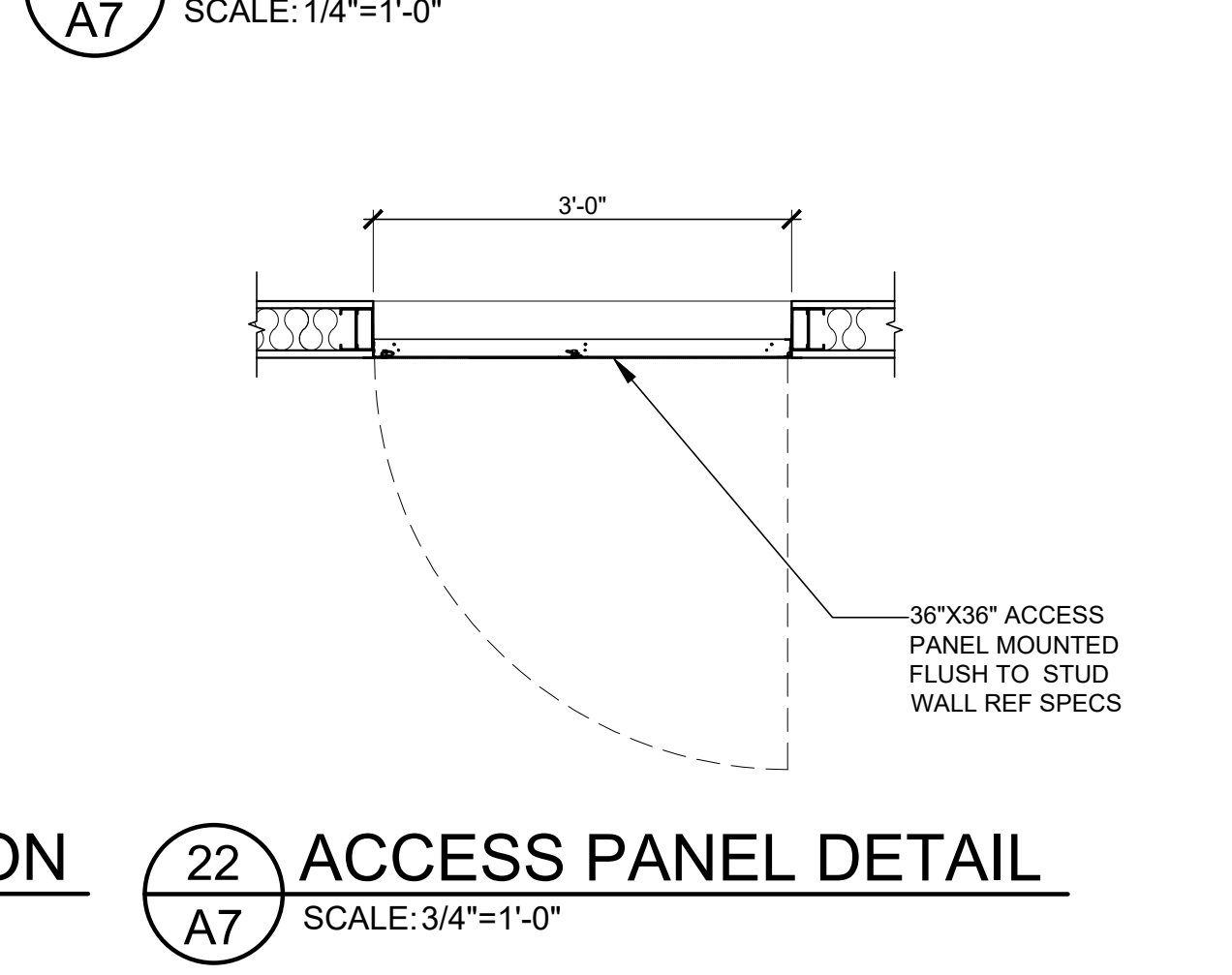
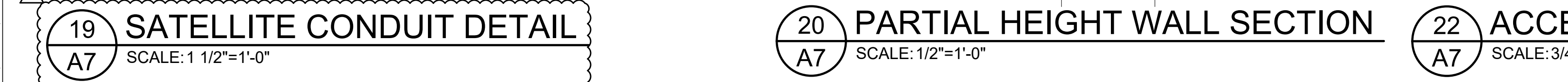
KMP

SHEET TITLE:

TRASH/TIRE ENCLOSURE DETAILS

SHEET NUMBER:

A6.1



Jun 29, 2020 - 3:06pm - USER: Colby Brown
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BUILDING DESIGN DATA

GOVERNING BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE (IBC)

1.

ROOF DEAD LOADS
A. FRAMING AND ROOF PANEL WEIGHT
B. OTHER DEAD LOAD

BY BLDG. MFR.
=8 PSF

2.

MINIMUM ROOF LIVE LOADS, Lr

= 20.0 PSF
3.

ROOF SNOW LOADS, S
A. GROUND SNOW LOAD, Pg
B. SNOW EXPOSURE FACTOR, Ce
C. SNOW LOAD IMPORTANCE FACTOR, Is
D. THERMAL FACTOR, Ct
E. ALL APPLICABLE EFFECTS DUE TO SNOW DRIFTING

= 20 PSF
= 1.0
= 1.0
= 1.0

4.

WIND LOADS, W
A. BASIC WIND SPEED (3 SECOND GUST), V
B. WIND LOAD IMPORTANCE FACTOR, I
C. BUILDING CATEGORY
D. OVERALL EXPOSURE CATEGORY
E. HEIGHT AND EXPOSURE ADJUSTMENT COEFFICIENT, Kh
F. INTERNAL PRESSURE COEFFICIENT, Gcpi
G. WIDTH OF EDGE/ CORNER ZONE, z
H. COMPONENT AND CLADDING WALL DESIGN PRESSURES
I. COMPONENT AND CLADDING ROOF DESIGN PRESSURES (NET)

= 110 MPH
= 1.0
= C
= C
BY BUILDING MFR.
BY BUILDING MFR.
BY BUILDING MFR.
BY BUILDING MFR.
5.

SEISMIC DESIGN DATA
A. OCCUPANCY CATEGORY
B. MAPPED SPECTRAL RESPONSE COEFFICIENTS
Ss
S1
C. SITE CLASS
D. SPECTRAL RESPONSE COEFFICIENTS
SDS
SD1
E. SEISMIC DESIGN CATEGORY
F. BASIC SEISMIC-FORCE-RESISTING SYSTEM
G. RESPONSE MODIFICATION COEFFICIENT, R
H. ANALYSIS PROCEDURE
I. SEISMIC RESPONSE COEFFICIENT, Cs
J. BASE SHEAR, V

= II
= 0.11
= 0.069
= C
= 0.099
= 0.088
= 0.088
= B
BY BUILDING MFR.
BY BUILDING MFR.
BY BUILDING MFR.
BY BUILDING MFR.

6.

FOUNDATION DESIGN DATA
A. ALLOWABLE BEARING PRESSURE
B. MINIMUM BEARING DEPTH
C. FREEZE-THAW EXPOSURE SEVERITY
D. SLAB SUBGRADE REACTION MODULUS

= 3000 PSF (NET)
= 36 IN
SEVERE
= 140 PCI

FOUNDATIONS, SLAB-ON-GRADE - GENERAL

1.

THE FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS MADE IN THE GEOTECHNICAL REPORT BY PROFESSIONAL SERVICE INDUSTRIES, INC. DATED JULY 24, 2019, PROJECT NO. 0331947

2.

SPREAD FOOTINGS SHALL BEAR ON SOIL CAPABLE OF SUSTAINING AN ALLOWABLE BEARING PRESSURE AS NOTED ABOVE FOR FOOTINGS UNDER FULL SERVICE DEAD AND LIVE LOADS.

3.

ALL BEARING MATERIAL SHALL BE INSPECTED BY THE INDEPENDENT TESTING AGENCY PRIOR TO CONCRETE PLACEMENT. THE INDEPENDENT TESTING AGENCY SHALL BE THE SOLE JUDGE AS TO THE SUITABILITY OF THE BEARING MATERIAL. FOOTING ELEVATIONS SHALL BE ADJUSTED AS REQUIRED.

4.

FOOTINGS MAY BE POURED INTO AN EARTH-FORMED TRENCH IF SOIL CONDITIONS PERMIT. THE TOP OF EXTERIOR FOOTING ELEVATION SHALL BE SET A MINIMUM OF 8" BELOW LOWEST FINAL ADJACENT EXTERIOR GRADE AND A MINIMUM OF 8" BELOW FINISH FLOOR. THE BOTTOM OF EXTERIOR FOOTINGS SHALL BEAR AT MINIMUM BEARING DEPTH BELOW LOWEST FINAL ADJACENT EXTERIOR GRADE.

6.

FOUNDATION WALLS THAT RETAIN EARTH SHALL BE BRACED AGAINST BACKFILLING PRESSURES UNTIL FLOOR SLABS AT TOP AND BOTTOM ARE IN PLACE, OR UNTIL THE CONCRETE OR MASONRY HAS ATTAINED ITS FULL COMPRESSIVE STRENGTH FOR CANTILEVER WALLS.

7.

WHERE FOUNDATION WALLS ARE TO HAVE EARTH PLACED ON EACH SIDE, PLACE FILL SIMULTANEOUSLY SO AS TO MAINTAIN A COMMON ELEVATION ON EACH SIDE OF THE WALL.

8.

VERIFY THE USE AND EXTENT OF PERIMETER INSULATION WITH THE ARCHITECTURAL DRAWINGS PRIOR TO THE INSTALLATION OF FOUNDATIONS. INSTALL PERIMETER INSULATION AS REQUIRED.

9.

STANDARD PROCEDURES OF FROST PROTECTION FOR FOUNDATIONS AND EXCAVATIONS SHALL BE EMPLOYED FOR WINTER CONSTRUCTION. BACK FILLING OF EXCAVATIONS SHALL BE DONE AS SOON AS POSSIBLE TO PROTECT FOUNDATIONS FROM FROST.

10.

HORIZONTAL BARS IN FOOTINGS AND CONCRETE WALLS SHALL BE CONTINUOUS. PROVIDE CORNER BARS AT ALL CORNERS AND INTERSECTIONS, UNO.

11.

FOUNDATION PENETRATIONS SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT/ENGINEER. PENETRATIONS SHALL BE FOUNDATION STEM WALL OR 6" CLEAR BELOW FOOTINGS.

CONCRETE

1.

ALL CONCRETE SHALL BE NORMAL-WEIGHT (DENSITY=145 PCF) AND SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF AS NOTED IN THE FOLLOWING TABLE:

CONCRETE USE	SPECIFIED COMPRESSIVE STRENGTH (PSI)	MAXIMUM W/C RATIO
COLUMN FOOTINGS	3,000 PSI	PER SPECIFICATIONS
EXTERIOR STRUCTURAL CONCRETE	4,500 PSI	PER SPECIFICATIONS
INTERIOR SLAB ON GRADE AND PERIMETER BEAM/FOOTING	4,000 PSI	PER SPECIFICATIONS
EXTERIOR SLAB ON GRADE	4,500 PSI	PER SPECIFICATIONS
SIDEWALKS	3,500 PSI	PER SPECIFICATIONS

2.

FOR ALL OTHER CONCRETE PROPERTIES SEE THE PROJECT SPECIFICATIONS.

3.

ALL EXTERIOR CONCRETE SHALL BE AIR-ENTRAINED PER ACI-318, LATEST EDITION, BASED ON FREEZE-THAW EXPOSURE SEVERITY AND AGGREGATE SIZE.

4.

ALL REINFORCED CONCRETE WORK SHALL BE PER "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" ACI 318, LATEST EDITION.

5.

THE CONTRACTOR SHALL SUBMIT CONCRETE DESIGNS FOR REVIEW A MINIMUM OF TWO WEEKS PRIOR TO THE PLACEMENT OF ANY CONCRETE. THE CONCRETE MIX DESIGNS SHALL INCLUDE ALL DATA NECESSARY TO SHOW COMPLIANCE WITH THE PROJECT SPECIFICATIONS. CONCRETE REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE.

7.

CONCRETE REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A706. HOOK ENDS OF BARS INTERRUPTED BY OPENINGS, HOOK TOP BARS AT ALL EDGES, AT ALL WALL AND SLAB OPENINGS, PROVIDE 2 - #8BARS x OPENING WIDTH PLUS 4 FEET(EACH SIDE) EACH FACE UNLESS SHOWN OTHERWISE.

9.

ALL REINFORCING SHALL BE DETAIL, FABRICATED, AND PLACED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE DETAILING MANUAL.

10.

ALL REINFORCING SHALL BE SUPPORTED IN FORMS, SPACED WITH NECESSARY ACCESSORIES AND SHALL BE SECURELY WIRED TOGETHER, IN ACCORDANCE WITH THE LATEST EDITION OF THE CRSI "MANUAL OF STANDARD PRACTICE".

11.

THE MINIMUM CONCRETE CLEAR COVER OVER REINFORCING STEEL, UNLESS NOTED OTHERWISE, SHALL BE:
UNFORMED SURFACE IN CONTACT WITH THE GROUND.....3 IN.
FORMED SURFACES EXPOSED TO EARTH OR WEATHER:
#6 BARS AND LARGER.....2 IN.
#8 BARS AND SMALLER.....1 1/2 IN.
FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER:
BEAMS, GIRDERS, AND COLUMNS.....1 1/2 IN.
SLABS, WALLS, AND JOISTS.....3/4 IN.
#11 BARS AND SMALLER.....1 1/2 IN.
#14 AND #18 BARS.....1 1/2 IN.

12.

ALL LAP SPLICES SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE, UNLESS NOTED OTHERWISE.

CONCRETE REINFORCING LAP SPLICE SCHEDULE		
TENSION SPLICES (IN.)		
BAR SIZE	TOP BARS	OTHER BARS
#3	16	16
#4	20	16
#5	25	19
#6	29	23

-COMPRESSION DOWEL EMBEDMENT: 22 BAR DIAMETERS LAP
-WELDED WIRE FABRIC: ONE SPACING OF CROSS WIRES PLUS 2" LAP

15.

LEAN CONCRETE - MIN 2 1/2 SACKS PORTLAND CEMENT PER CUBIC YARD.

REINFORCED MASONRY

1.

MASONRY WALLS HAVE BEEN DESIGNED TO SPAN VERTICALLY, AS SIMPLE SPANS, FROM FOUNDATION TO ROOF, AND ARE DEPENDENT UPON THE COMPLETED ROOF STRUCTURE, ROOF SHEATHING, AND COMPLETION OF ALL MASONRY WALLS FOR STABILITY AND FOR RESISTANCE TO WIND AND SEISMIC FORCES. THE GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR PROVIDING ALL NECESSARY BRACING AS REQUIRED FOR STABILITY, RESISTANCE OF CONSTRUCTION LOADS, AND FOR RESISTANCE TO WIND AND SEISMIC FORCES UNTIL THE ENTIRE STRUCTURE IS COMPLETE. THE SHORING SHALL NOT RELY ON ANY MOMENT RESISTANCE CAPACITY OF THE FOOTINGS.

2.

REINFORCED MASONRY SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH, fm = 2000 PSI. MASONRY UNITS SHALL BE NORMAL WEIGHT BLOCK CONFORMING TO ASTM C90, GRADE N, TYPE 1, AND SHALL HAVE A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 2800 PSI. MORTAR SHALL CONFORM TO ASTM C270, TYPE S. PORTLAND CEMENT TYPE 1 OR 2, LOW ALKALI PER ASTM C150 NON AIR ENTRAINED OR HYDRATED LIME PER ASTM C207 TYPES. GROUT SHALL CONFORM TO ASTM C476 AND SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2000 PSI. GROUT SHALL BE MECHANICALLY CONSOLIDATED USING A VIBRATOR WITH A MAXIMUM 3/4" DIAMETER HEAD.

3.

PROVIDE VERTICAL CONTROL JOINTS IN MASONRY WALLS AT LOCATIONS NOTED ON PLANS. HORIZONTAL BOND BEAMS AND LINTEL REINFORCING SHALL BE CONTINUOUS ACROSS VERTICAL CONTROL JOINTS. JOINT REINFORCING SHALL BE STOPPED EITHER SIDE OF VERTICAL CONTROL JOINTS.

4.

MORTAR SHALL MEET THE PROPORTION SPECIFICATIONS OF ASTM C270 TYPE "S" MORTAR. MASONRY CEMENT SHALL NOT BE USED FOR MORTAR.

5.

MASONRY REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE.

6.

CONTINUOUS WIRE REINFORCING (JOINT REINFORCING) SHALL BE GALVANIZED TRUSS OR LADDER TYPE FORMED FROM 9 GAUGE COLD-DRAWN STEEL WIRE COMPLYING WITH ASTM A82. JOINT REINFORCING SHALL BE SPACED AT 16" O.C. VERTICALLY IN ALL MASONRY WALLS.

7.

ALL REINFORCED CELLS AND ALL CELLS BELOW THE FINISHED FLOOR ELEVATION SHALL BE GROUTED SOLID. CONCRETE MASONRY BELOW FINISHED FLOOR SHALL BE NORMAL WEIGHT UNITS. CONCRETE MASONRY UNITS ABOVE FINISHED FLOOR SHALL BE LIGHT WEIGHT OR NORMAL WEIGHT.

8.

GROUTING SHALL BE STOPPED 1 1/2" BELOW THE TOP OF A COURSE SO AS TO FORM A KEY AT THE POUR JOINT.

9.

GROUTING OF MASONRY BEAMS AND LINTELS OVER OPENINGS SHALL BE DONE IN ONE CONTINUOUS OPERATION.

10.

ALL BOLTS, ANCHORS, ETC., INSERTED IN THE WALLS, SHALL BE GROUTED SOLID INTO POSITION. COORDINATE LOCATIONS OF EMBEDDED STEEL ITEMS FOR OVERHEAD DOORS WITH DOOR MANUFACTURER.

11.

ALL REINFORCING LAP SPLICES SHALL BE PER THE FOLLOWING TABLE. UNLESS NOTED OTHERWISE.

MASONRY REINFORCING LAP SPLICE SCHEDULE	
BAR SIZE	SPLICE (IN.)
#3	20
#4	26
#5	32
#6	39
#7	45

12.

USE OPEN KNOCK OUT BOND BEAM BLOCK. DO NOT USE TROUGH TYPE BLOCKS FOR BOND BEAMS.

STRUCTURAL STEEL

1.

STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING GRADES:
ALL CHANNELS, ANGLES, PLATES, ETC. (U.N.O.).....A36 (Fy=36 KSI)
ALL WIDE FLANGES (U.N.O.).....A992 (Fy=50 KSI)
HOLLOW STRUCTURAL SECTIONS (SHAPED).....A500 GRADE B (Fy=46 KSI)
HOLLOW STRUCTURAL SECTIONS (ROUND).....A500 GRADE B (Fy=42 KSI)
STEEL PIPE.....A53 GRADE B (Fy=35 KSI)
BOLTS.....A325 (U.N.O.)
ANCHOR RODS.....F1554 (GRADE 36)
WELDING ELECTRODES.....E70XX, LOW HYDROGEN

2.

ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE, EXCEPT AS MODIFIED IN THESE NOTES AND THE PROJECT SPECIFICATIONS.

3.

ALL WELDING SHALL CONFORM TO AMERICAN WELDING SOCIETY "STRUCTURAL WELDING CODE" AWS D1.1. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS. ALL WELDING SHALL BE TO CLEAN BARE STEEL.

4.

SPLICING OF STEEL MEMBERS, UNLESS SHOWN ON THE DRAWINGS, IS PROHIBITED WITHOUT WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER-OF-RECORD.

5.

PROVIDE SUB-FRAMING FOR EQUIPMENT SUPPORTED ON OR SUSPENDED FROM THE STRUCTURE. ALL SHALL BE SHOP COATED WITH PRIME PAINT AS SPECIFIED, MASK SURFACES TO BE WELDED AND AT BOLT HOLES IN FAYING SURFACES OF FRICTION CONNECTIONS.

DEFERRED STRUCTURAL SUBMITTALS

1.

THE FOLLOWING STRUCTURAL COMPONENTS SHALL BE DESIGNED AND SUBMITTED BY OTHERS FOR APPROVAL IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.
A. PRE-MANUF. METAL BUILDINGS.

2.

DOCUMENTS FOR DEFERRED STRUCTURAL SUBMITTAL ITEMS SHALL BE DESIGNED, SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. THE DEFERRED SUBMITTAL DOCUMENTS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL. AS REQUESTED WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND BEEN FOUND TO BE IN GENERAL CONFORMANCE TO THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED.

3.

STRUCTURAL FOUNDATION DESIGN WAS BASED ON FOUNDATION REACTIONS FROM ONE PRE-MANUF. BUILDING MANUFACTURER. ALTERATIONS MAY BE NECESSARY IF A DIFFERENT BUILDING MANUFACTURER IS SELECTED OR DIFFERENT REQUIREMENTS ARE PROVIDED IN THE BUILDING SUBMITTAL. BASED ON THE EXTENT OF THE CHANGES, ADDITIONAL SERVICES FOR STRUCTURAL REDESIGN AND COSTS OF ADDITIONAL OR MODIFIED FOUNDATIONS MAY BE REQUIRED. DURING SELECTION OF BUILDING SUPPLIER, GENERAL CONTRACTOR SHALL INCLUDE A CONTINGENCY TO COVER THESE FEES AND COSTS. COSTS OF THE DESIGN AND CONSTRUCTION REVISIONS SHALL BE BORNE BY THE CONTRACTOR.

PRE-MANUF. METAL BUILDING

1.

PRE-MANUF. METAL BUILDING ELEMENTS SHALL BE DESIGNED BY THE MANUFACTURER AND SHALL COMPLY WITH THE REQUIREMENTS OF LOCAL BUILDING CODES AS LISTED IN "BUILDING DESIGN DATA" AND THE METAL BUILDING MANUFACTURERS' ASSOCIATION DESIGN MANUAL. IN ADDITION, THE METAL BUILDING ELEMENTS SHALL BE DESIGNED FOR ALL LOADS INDICATED ON THE DRAWINGS.

2.

THE METAL BUILDING MANUFACTURER IS RESPONSIBLE FOR PROVIDING THE MATERIAL TYPE, DIAMETER, AND LOCATION OF ANCHOR BOLTS FOR THE METAL BUILDING COLUMNS.

3.

THE METAL BUILDING COLUMNS SHALL BEAR AS INDICATED ON PLANS.

4.

REFER TO 1-S1 FOR DEFLECTION LIMITS.

5.

SHOP DRAWING SUBMITTALS (INCLUDING DRAWINGS AND CALCULATIONS) SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED.

6.

FOUNDATIONS PROVIDING SUPPORT TO THE METAL BUILDING FRAMES OF THE BUILDING HAVE BEEN DESIGNED FOR PINNED TYPE CONNECTIONS ONLY. DO NOT FIX THE BASE OF THE COLUMNS.

7.

A 1/3 INCREASE IN ALLOWABLE STRESS SHALL NOT BE USED FOR DESIGN. HOWEVER, A LOAD REDUCTION SHALL BE ALLOWED IN ACCORDANCE WITH ASCE-7 WHEN TWO OR MORE TRANSIENT LOADS IN COMBINATION WITH DEAD LOADS ARE APPLIED.

8.

METAL BUILDING MANUFACTURER SHALL PROVIDE ROOF BRACING, WALL BRACING AND/OR PORTAL FRAMES AS REQUIRED TO ADEQUATELY RESIST WIND AND SEISMIC LOADS. THEIR LOCATIONS AND SIZES SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS AND INTENT.

9.

METAL BUILDING MANUFACTURER SHALL BE RESPONSIBLE FOR ALL FRAMING ABOVE SLAB. THIS INCLUDES, BUT IS NOT LIMITED TO, WIND GIRTS AND COLUMNS, EXTERIOR JAMBS AND LINTELS, A AND MECHANICAL/ELECTRICAL EQUIPMENT SUPPORT. ALL SUPPLEMENTAL FRAMING SHALL MEET OR EXCEED THE LOAD AND DEFLECTION REQUIREMENTS OF THE MANUFACTURER.

10.

THE METAL BUILDING MANUFACTURER IS RESPONSIBLE FOR COORDINATING METAL BUILDING ELEMENTS WITH THE CONSTRUCTION DRAWINGS AND INTENT.

11.

NO OVERSTRESS OF METAL BUILDING MEMBERS IS ALLOWED.

MISCELLANEOUS

1.

THESE GENERAL NOTES SUPPLEMENT THE PROJECT SPECIFICATIONS. REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

2.

THE STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING REQUIREMENTS FROM SUCH DRAWINGS INTO THEIR SHOP DRAWINGS AND WORK.

3.

NO OPENINGS SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE PROFESSIONAL-OF-RECORD.

4.

NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE PROFESSIONAL-OF-RECORD.

5.

DO NOT SCALE THESE DRAWINGS. USE SPECIFIED DIMENSIONS.

6.

STEEL FRAMING IS NON-SELF SUPPORTING AND REQUIRES INTERACTION WITH OTHER ELEMENTS NOT CLASSIFIED AS STRUCTURAL STEEL TO PROVIDE THE REQUIRED STABILITY AND RESISTANCE TO LATERAL FORCE.

7.

THE STEEL FRAMING AND ALL CONCRETE AND CMU WALLS SHALL BE TEMPORARILY BRACED UNTIL ALL STEEL BRACING, FLOOR AND ROOF DECKS, AND CONCRETE AND CMU WALLS HAVE BEEN INSTALLED AND ALL CONNECTIONS BETWEEN THESE ELEMENTS HAVE BEEN MADE.

SPECIAL INSPECTIONS

1.

THE OWNER WILL EMPLOY THE SERVICES OF ONE OR MORE SPECIAL INSPECTORS TO PROVIDE SPECIAL INSPECTIONS DURING CONSTRUCTION FOR THE REQUIRED SPECIAL INSPECTION ITEMS.

2.

THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, AND THE REGISTERED DESIGN PROFESSIONAL RESPONSIBLE FOR THE DESIGN OF THE STRUCTURE, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.

3.

DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:
A. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS. THE INSPECTOR MAY NOT ALTER, MODIFY, ENLARGE OR WAVE ANY OF THE REQUIREMENTS OF THE DOCUMENTS.
B. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE PROFESSIONAL-OF-RECORD, AND THE CONTRACTOR. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. THEN, IF UNCORRECTED, SUBMIT A COMPLETE LIST OF ALL OUTSTANDING DISCREPANCIES ON A WEEKLY BASIS TO THE OWNER, THE BUILDING OFFICIAL, AND THE PROFESSIONAL-OF-RECORD, UNTIL ALL CORRECTIONS HAVE BEEN COMPLETED.
C. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE BUILDING CODE.
D. SPECIAL INSPECTIONS SHALL BE REQUIRED FOR THE FOLLOWING GENERAL AREAS. REFERENCE THE FOLLOWING TABLE FOR MORE DETAILED INSPECTION REQUIREMENTS IN EACH AREA.
A. INSPECTION OF FABRICATORS: PER IBC SECTION 1704.2
B. STEEL CONSTRUCTION: PER IBC SECTION 1704.3 AND IBC TABLE 1704.03.
C. CONCRETE: PER IBC SECTION 1704.4 AND IBC TABLE 1704.4
D. MASONRY CONSTRUCTION: PER IBC SECTION 1704.5, AND IBC TABLE 1704.5.1
E. SOILS: PER IBC SECTION 1704.7 AND THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT.
4. STRUCTURAL OBSERVATION (AS DEFINED IN CHAPTER 17 OF THE BUILDING CODE) IS NOT REQUIRED, UNLESS SPECIFICALLY REQUIRED BY THE BUILDING OFFICIAL.

MAXIMUM DEFLECTION AND DRIFT LIMITS		
MEMBER	VERTICAL DEFLECTION	HORIZONTAL DEFLECTION
PURLINS	L/240	---
RAFTERS	L/240	---
METAL ROOF PANELS	L/240	---
METAL WALL PANELS	---	L/240
GIRTS	---	L/240

1. DESIGN SECONDARY-FRAMING SYSTEM TO ACCOMMODATE DEFLECTION OF PRIMARY FRAMING AND CONSTRUCTION TOLERANCES AND TO MAINTAIN CLEARANCES AT OPENINGS.

2. LATERAL DRIFT: MAXIMUM OF L/200 OF BUILDING HEIGHT.

3. L = MEMBER SPAN

1.

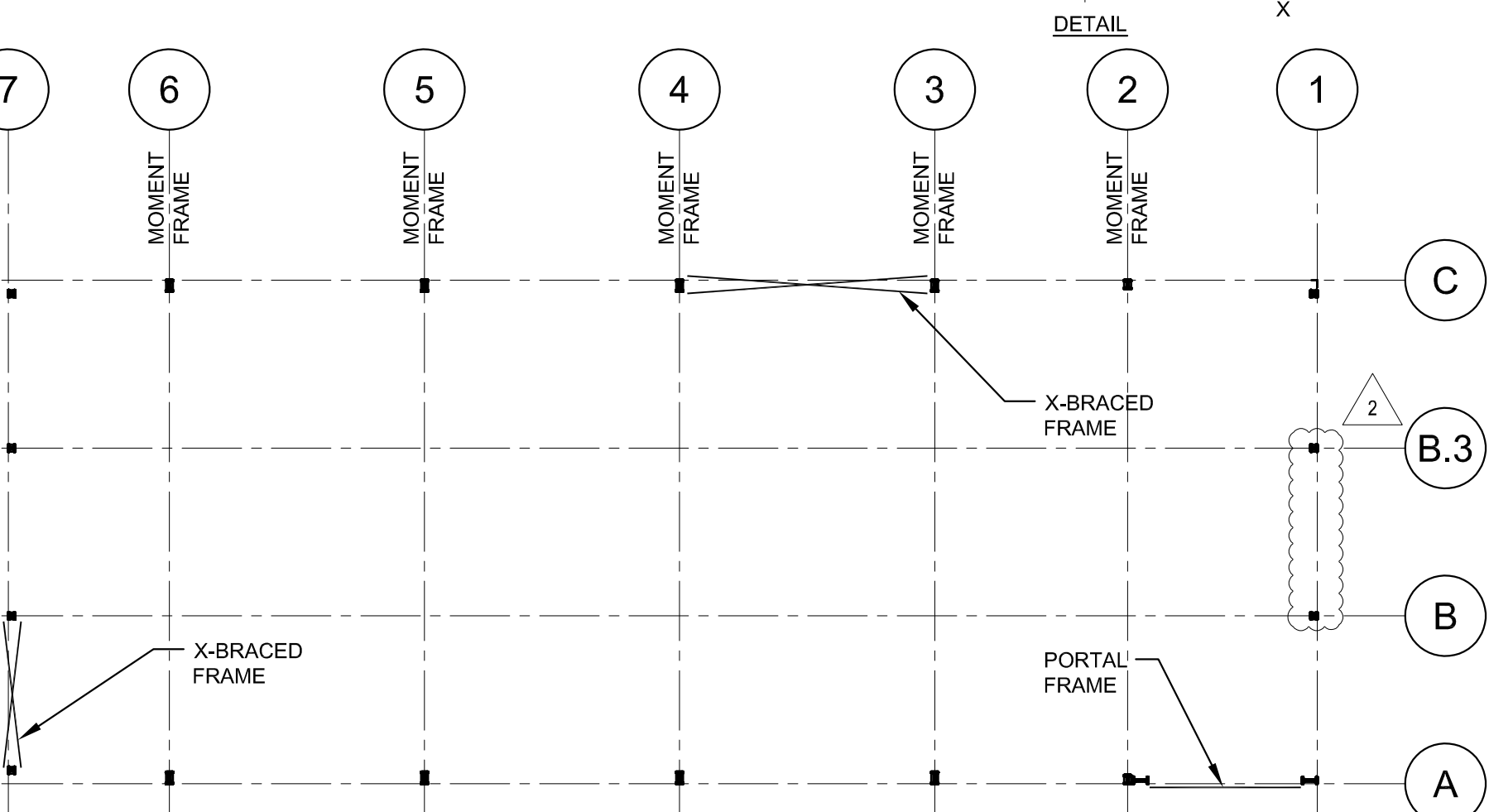
BLDG. MFR. TO PROVIDE FRAMES & BRACING IN LOCATIONS NOTED BELOW

2.

SEE ARCH FOR CLEARANCES & SPECIAL COLUMN DEPTH LIMITATIONS.

3.

CENTER LINE OF ANCHOR BOLT GROUP SHALL BE NO MORE THAN 1" FROM CENTER LINE OF COLUMN SECTION AT THE BASE IN THE LOCAL Y-DIRECTION AND SHALL MATCH IN THE LOCAL X-DIRECTION. SEE DETAIL.



1 S1 BUILDING FRAME SCHEMATIC PLAN

SCALE: 1/16" = 1'-0"

SPECIAL INSPECTIONS SCHEDULE		
SPECIAL INSPECTION	FREQ.	REFERENCED STANDARD(S)
SOILS:		
1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	PERIODIC	IBC 1705.6
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	PERIODIC	
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	PERIODIC	
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	CONT.	
5. PRIOR TO THE PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT THE SITE HAS BEEN PREPARED PROPERLY.	PERIODIC	
CONCRETE (NOT APPLICABLE TO ISOLATED SPREAD FOOTINGS OR NON-STRUCTURAL SLABS ON GROUND):		
1. INSPECTION OF REINFORCING STEEL, SIZE AND PLACEMENT	PERIODIC	ACI 318: 3.5, 7.1-7.7
2. VERIFYING USE OF REQUIRED DESIGN MIX	PERIODIC	ACI 318: Ch. 4, 5.2-5.4
3. SAMPLING FRESH CONCRETE AND PERFORMING SLUMP, AIR CONTENT, AND DETERMINING THE TEMPERATURE OF FRESH CONCRETE AT THE TIME OF MAKING SPECIMENS FOR STRENGTH TESTS.	CONT.	ASTM C 172; ASTM C 31; ACI 318: 5.6, 5.8
4. INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	CONT.	ACI 318: 5.9, 5.10
5. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	PERIODIC	ACI 318: 5.11-5.13
STEEL CONSTRUCTION:		
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS, AND WASHERS, HIGH-STRENGTH BOLTING:		
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	PERIODIC	APPLICABLE ASTM MATERIAL SPECIFICATIONS; AISC 360, SEC. A3.4
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED	PERIODIC	
2. INSPECTION OF BEARING-TYPE CONNECTIONS	PERIODIC	AISC LRFD Sec. M2.5
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD FORMED METAL DECK:		
A. FOR STRUCTURAL STEEL IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	---	AISC 360, SEC. M5.5; ASTM A-6 OR ASTM A-568
B. FOR OTHER STEEL IDENTIFICATION MARKING TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	---	APPLICABLE ASTM MATERIAL STANDARDS
C. MANUFACTURER'S CERTIFIED MILL TEST REPORTS REQUIRED		
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:		
A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS	PERIODIC	AISC 360, SECTION A3.5 AND APPLICABLE AWS A5 DOCUMENTS
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED	PERIODIC	
5. INSPECTION OF WELDING:		
A. SINGLE-PASS FILLET WELDS ≤ 5/16"	PERIODIC	AWS D1.1
B. ROOF DECK WELDS	PERIODIC	AWS D1.3
MASONRY CONSTRUCTION		
1. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:		
A. PROPORTIONS OF SITE PREPARED MORTAR.	PERIODIC	ACI 530.1/ASCE 6/TMS 602: Art. 2.6A
B. CONSTRUCTION OF MORTAR JOINTS.		ACI 530.1/ASCE 6/TMS 602: Art. 3.3B
C. LOCATION OF REINFORCEMENT AND CONNECTORS.		ACI 530.1/ASCE 6/TMS 602: Art. 3.4, 3.6A
D. VERIFICATION OF fm.		ACI 530.1/ASCE 6/TMS 602: Art. 1.5
2. DURING CONSTRUCTION THE INSPECTION PROGRAM SHALL VERIFY:		
A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.	PERIODIC	ACI 530.1/ASCE 6/TMS 602: Art. 3.3F
B. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION.		ACI 530/ASCE 5/TMS 402: Sec. 1.2.2(e), 1.16.1
C. SPECIFIED SIZE, GRADE, AND TYPE OF REINFORCEMENT AND ANCHOR BOLTS		ACI 530.1/ASCE 6/TMS 402: Sec. 1.15; ACI 530.1/ASCE 6/TMS 602: Art. 2.4, 3.4
E. PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40° F) OR HOT WEATHER (TEMPERATURE ABOVE 90° F)		ACI 530.1/ASCE 6/TMS 602: Art. 1.6c, 1.8d IBC SECTION 2104.3.2104.4
3. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:		
A. GROUT SPACE IS CLEAN.	PERIODIC	ACI 530.1/ASCE 6/TMS 602: Art. 3.2D
B. PLACEMENT OF REINFORCEMENT AND CONNECTORS.		ACI 530/ASCE 5/TMS 402: Sec. 1.13; ACI 530.1/ASCE 6/TMS 602: Art. 3.4
C. PROPORTIONS OF SITE PREPARED GROUT.		ACI 530.1/ASCE 6/TMS 602: Art. 2.6B
D. CONSTRUCTION OF MORTAR JOINTS.		ACI 530.1/ASCE 6/TMS 602: Art. 3.3B
4. GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS.	CONT.	ACI 530.1/ASCE 6/TMS 602: Art. 3.5
5. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS SHALL BE OBSERVED.	PERIODIC	IBC SECTION 2105.2.2, 2105.3 ACI 530.1/ASCE 6/TMS 602: Art. 1.4
6. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED.	PERIODIC	ACI 530.1/ASCE 6/TMS 602: Art. 1.5
ADHESIVE ANCHORS/REINFORCEMENT:		
1. DURING PLACEMENT OF ADHESIVE ANCHORS OR REINFORCEMENT EMBEDDED WITH ADHESIVE (AS SPECIFIED ON THE CONSTRUCTION DOCUMENTS) IN MASONRY AND CONCRETE:		
A. SIZE AND EMBEDMENT OF ANCHORS/REINF.	CONTINUOUS	MANUFACTURERS INSTALLATION INSTRUCTIONS
B. ANCHORS/REINFORCEMENT INSTALLED PER MANUFACTURERS RECOMMENDATIONS.	CONTINUOUS	

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW OF THIS DOCUMENT SHALL BE THE RESPONSIBILITY OF THE USER. ANY CHANGES TO THIS DOCUMENT SHALL BE THE RESPONSIBILITY OF THE USER. ANY CHANGES TO THIS DOCUMENT SHALL BE THE RESPONSIBILITY OF THE USER.

07/10/2020

Wallace Engineering Structural Consultants, Inc. 12200 Main Landing Way • Bld. 12200 Lee's Summit, Missouri 64086 913.341.5838 800.345.5858

Firestone COMPLETE AUTO CARE

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NEW FCAC STORE 2020 ER 3561 SW MARKET ST JACKSON COUNTY LEE'S SUMMIT, MISSOURI 64082

WALLACE ENGINEERING STRUCTURAL CONSULTANTS, INC. MISSOURI ENGINEERING CORPORATION MISSOURI CERTIFICATE OF AUTHORIZATION #001268

2020.06.29 15:24:58-0500

ISSUE BLOCK

1

ADD #1

04/16/20

2

CB#1

06/30/20

PROPERTY NO.: 160085

6 DIGIT NO.: 906983

4 DIGIT NO.: 78C9

AOR PROJECT NUMBER: 1955871

TO PERMIT: DATE: 03/26/2020

TO BID: DATE: ##-##-##

SHEET TITLE: GENERAL NOTES

SHEET NUMBER: S1

Jun 30, 2020 - 10:31am - USER: Colby Brown
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FOUNDATION PLAN NOTES

- SEE SHEET S1 FOR GENERAL NOTES AND S3 FOR TYPICAL DETAILS
- ALL ELEVATIONS BASED ON FINISH FLOOR ELEVATION = 100'-0" FOR REFERENCE ONLY. SEE SITE PLAN FOR ACTUAL FINISH FLOOR ELEVATIONS.
- SEE PLAN AND GENERAL STRUCTURAL NOTES FOR TOP OF EXTERIOR FOOTING ELEVATIONS. THE GENERAL CONTRACTOR SHALL COORDINATE ALL TOP OF FOOTING ELEVATIONS WITH THE CIVIL ENGINEERING DRAWINGS AND SITE CONDITIONS.
- PROVIDE CORNER BARS IN ALL CORNERS AND INTERSECTIONS PER 5-S3. LAP SPLICE FOOTING CORNER BAR REINFORCING PER TABLE ON SHEET S1.
- REFER TO MECHANICAL DRAWINGS FOR ALL DRAIN LOCATIONS AND SLOPES TO DRAINS.

SLAB SCHEDULE

LOCATION	THICKNESS* AND REINFORCING	REMARKS
4" INTERIOR SLAB ON GRADE	4" CONCRETE SLAB ON GRADE REINFORCED WITH 6 x 6 - W1.4 x W1.4 W.W.F. - CENTER	15 MIL VAPOR RETARDER OVER COMPACTED GRANULAR SUBBASE PER THE GEOTECHNICAL REPORT
5" INTERIOR SLAB ON GRADE	5" CONCRETE SLAB ON GRADE REINFORCED WITH 6 x 6 - W2.9 x W2.9 W.W.F. - CENTER	15 MIL VAPOR RETARDER OVER COMPACTED GRANULAR SUBBASE PER THE GEOTECHNICAL REPORT
6" EXTERIOR SLAB ON GRADE	6" CONCRETE SLAB ON GRADE REINFORCED WITH 6 x 6 - W2.9 x W2.9 W.W.F. - CENTER	COMPACTED SUBBASE PER THE GEOTECHNICAL REPORT
SIDEWALK	4" CONCRETE SLAB ON GRADE REINFORCED WITH 6 x 6 - W1.4 x W1.4 W.W.F. - CENTER	COMPACTED SUBBASE PER GEOTECHNICAL REPORT - SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION

* THICKNESS OF SLABS AS SPECIFIED IN SCHEDULE ARE MINIMUMS. THERE SHALL BE NO TOLERANCE FOR SLABS THINNER THAN THOSE SPECIFIED IN SCHEDULE.

* COORDINATE LOCATIONS AND EXTENTS OF EXTERIOR CONCRETE SLAB WITH ARCH. AND CIVIL DRAWINGS.

* SEE ARCH AND SPECIFICATIONS FOR SLAB FINISH REQUIREMENTS.

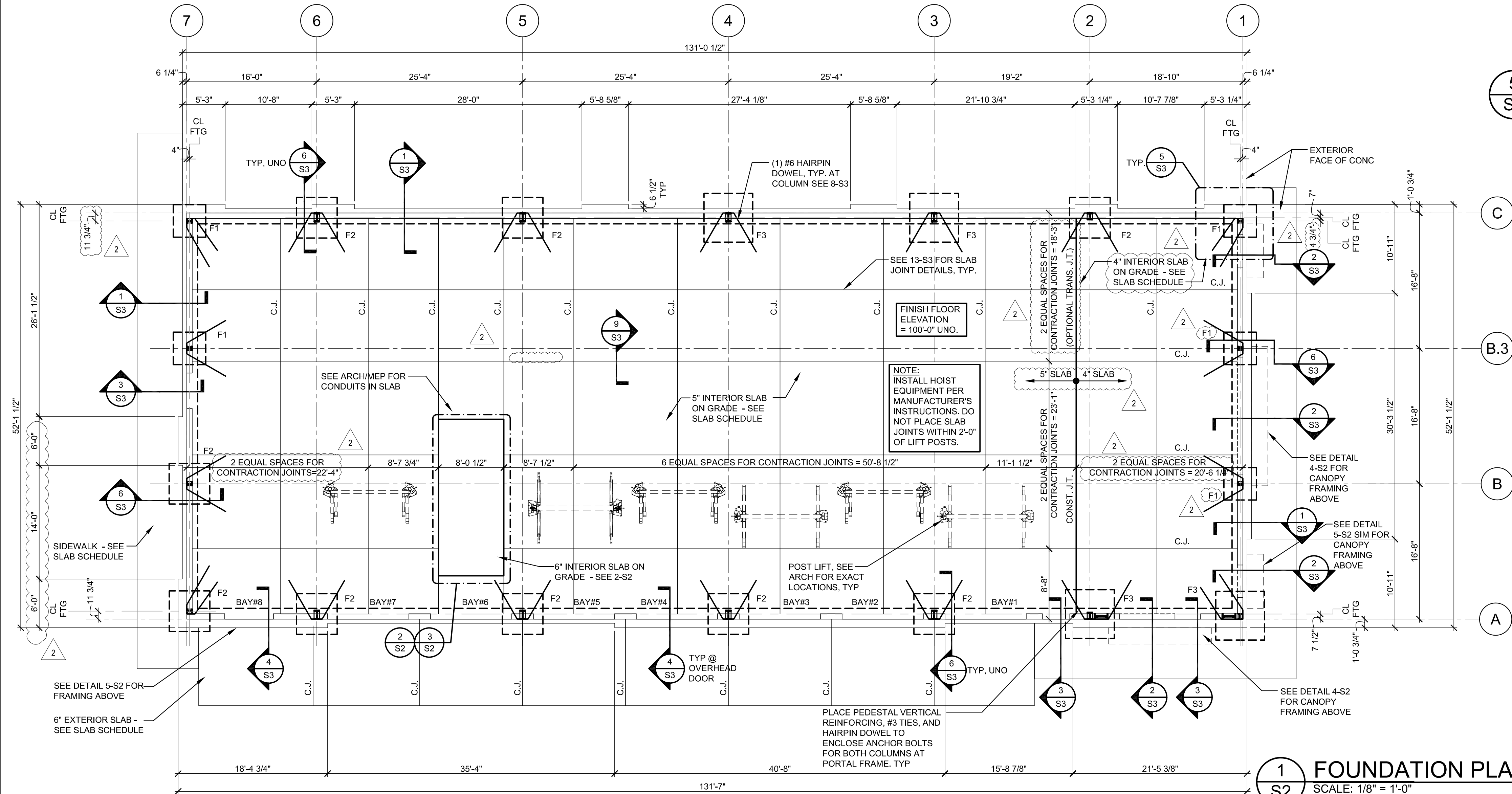
* CONTRACTOR SHALL OBTAIN FLOOR FLATNESS AND LEVELNESS TESTING (FF & FL) AND PROVIDE FINAL REPORT TO OWNER. SEE SPECIFICATIONS.

FOOTING SCHEDULE

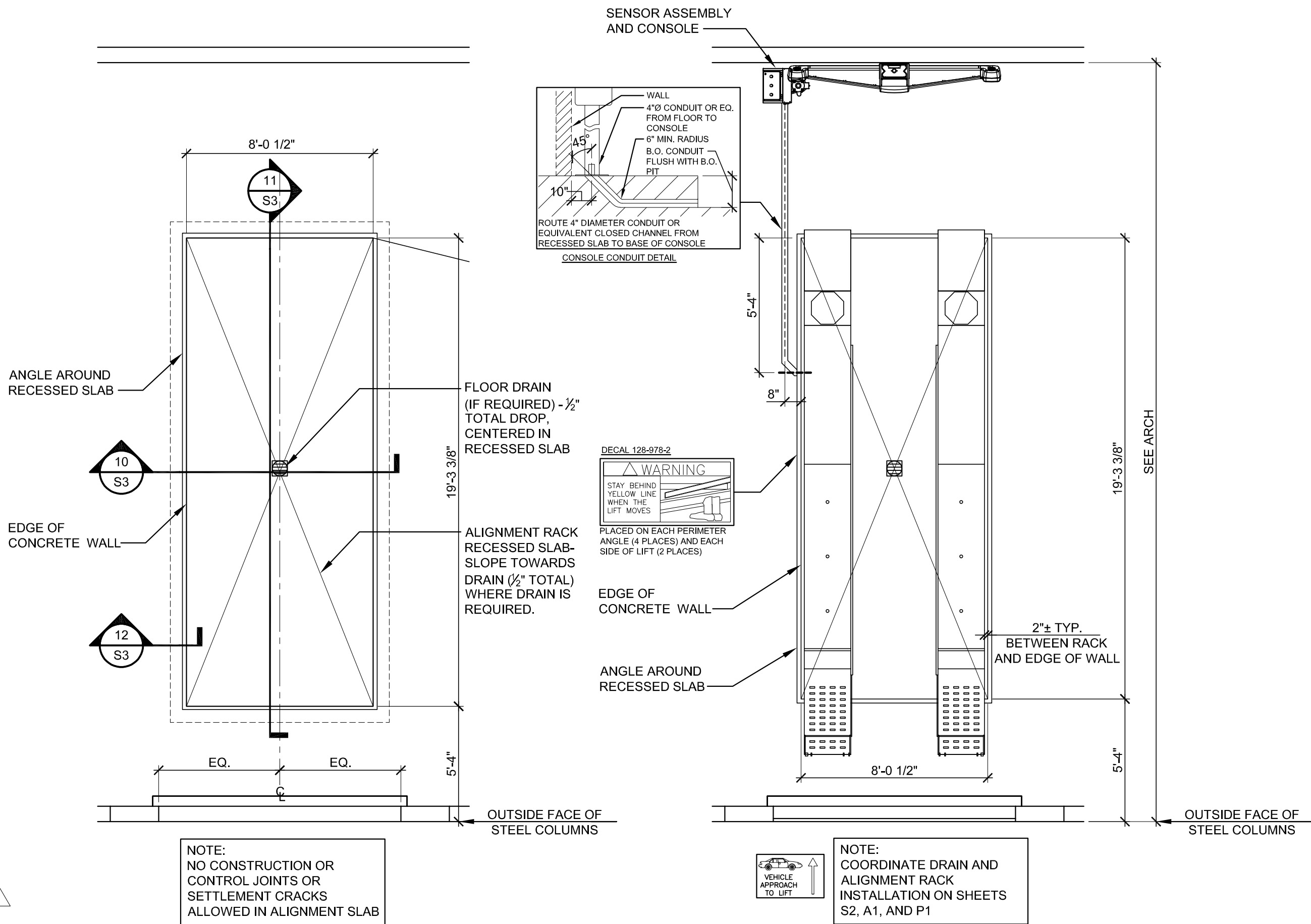
MARK	SIZE	REINFORCING
F1	★ 4'-0" x 4'-0" x 1'-0"	(4) #5 - EACH WAY, BOTTOM
F2	★ 5'-0" x 5'-0" x 1'-0"	(5) #5 - EACH WAY, BOTTOM
F3	★ 6'-0" x 6'-0" x 1'-0"	(6) #5 - EACH WAY, BOTTOM

2
S2 ALIGNMENT SLAB PLAN
SCALE: 1/4" = 1'-0"

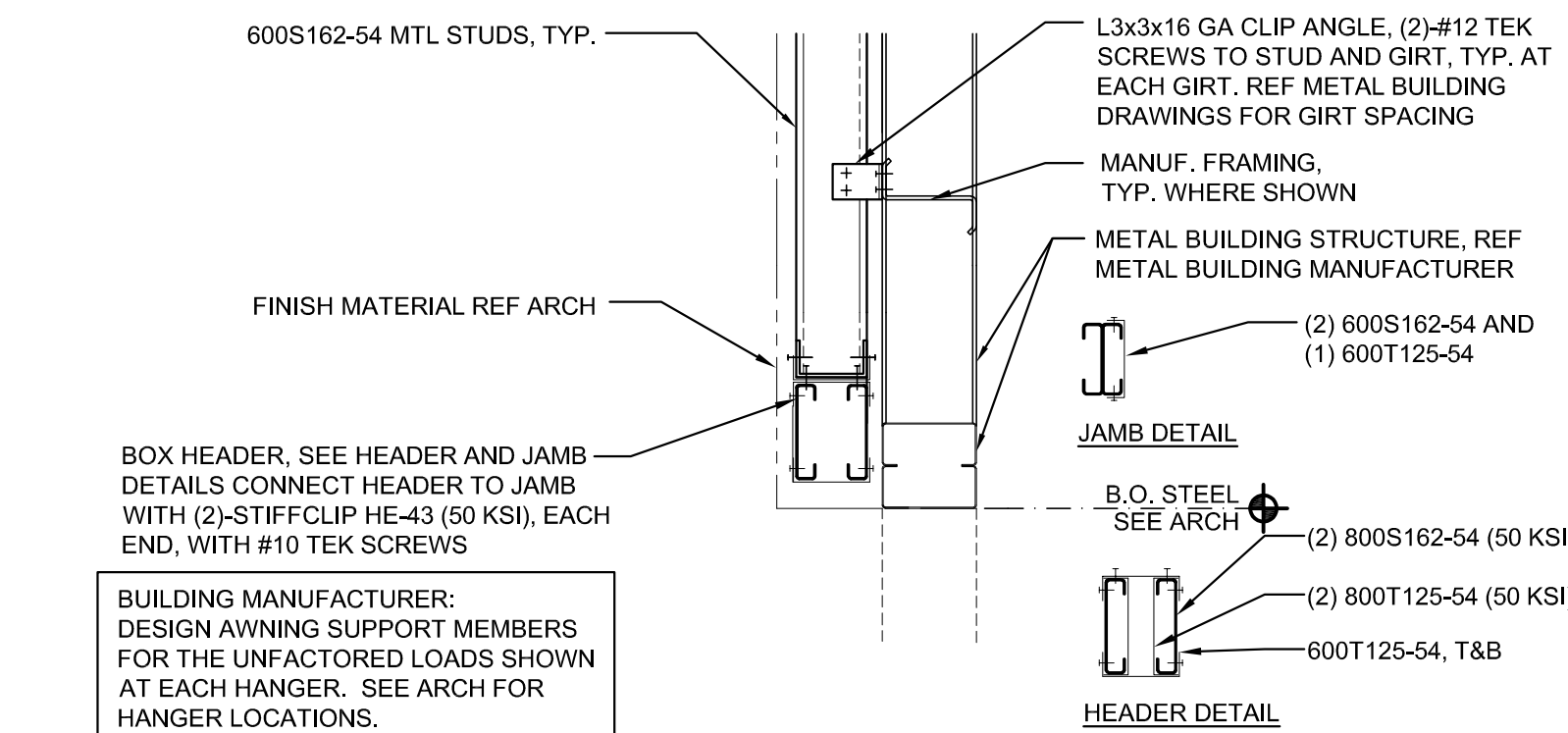
3
S2 ALIGNMENT RACK PLAN
SCALE: 1/4" = 1'-0"



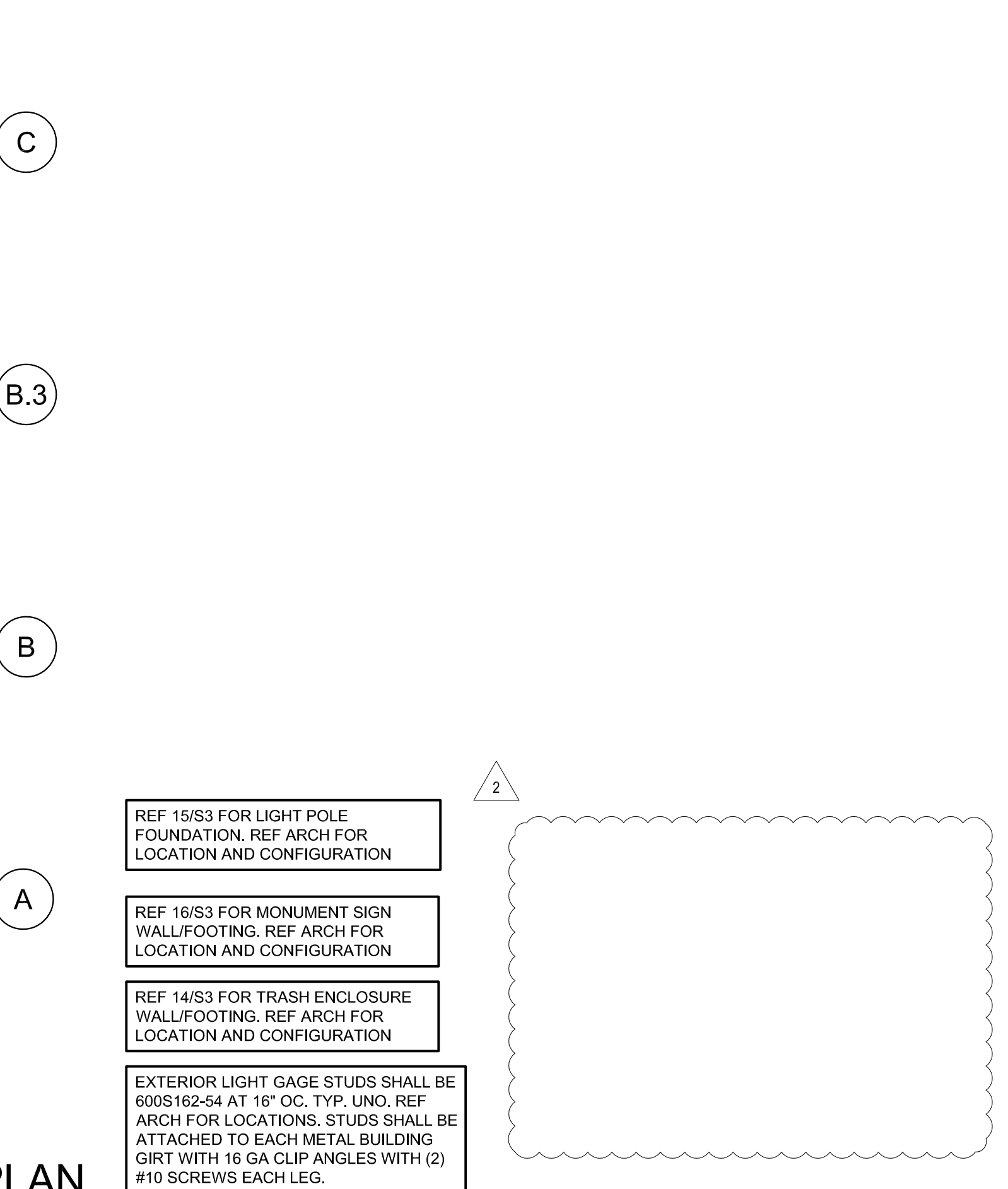
1
S2 FOUNDATION PLAN
SCALE: 1/8" = 1'-0"



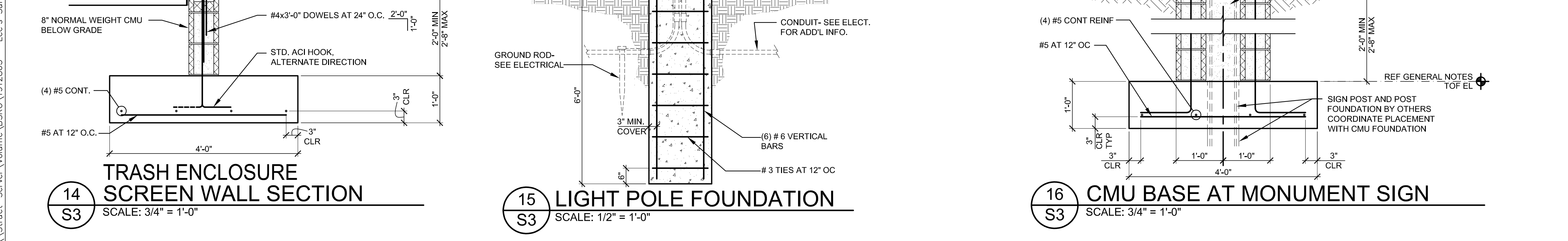
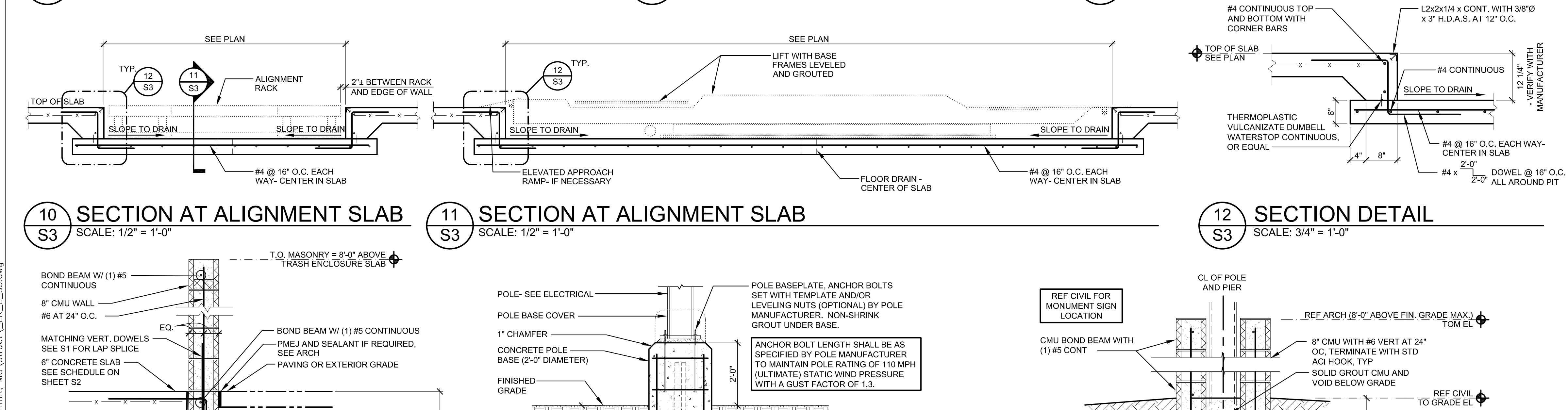
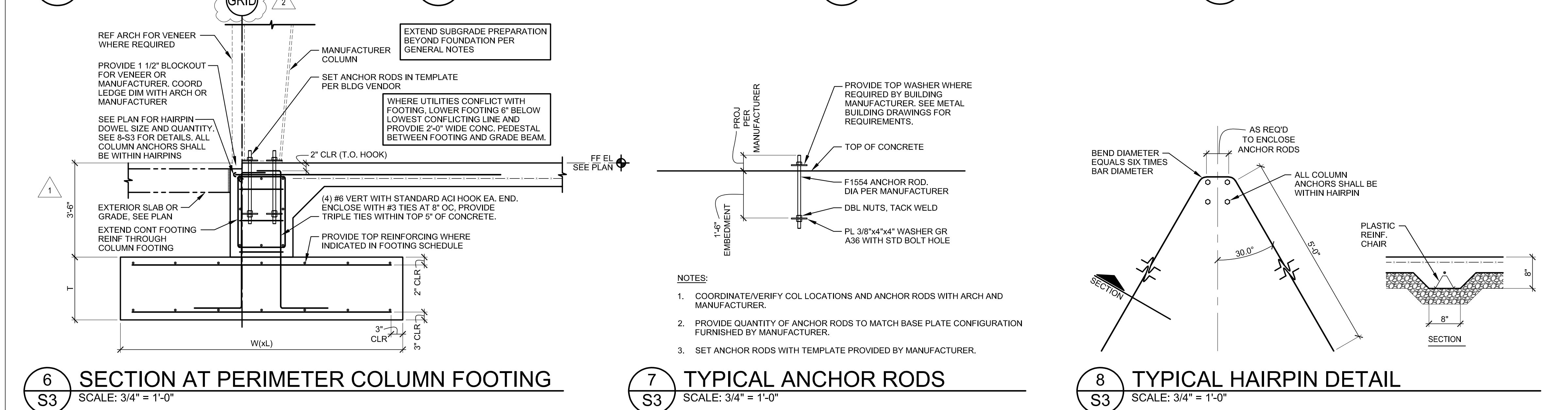
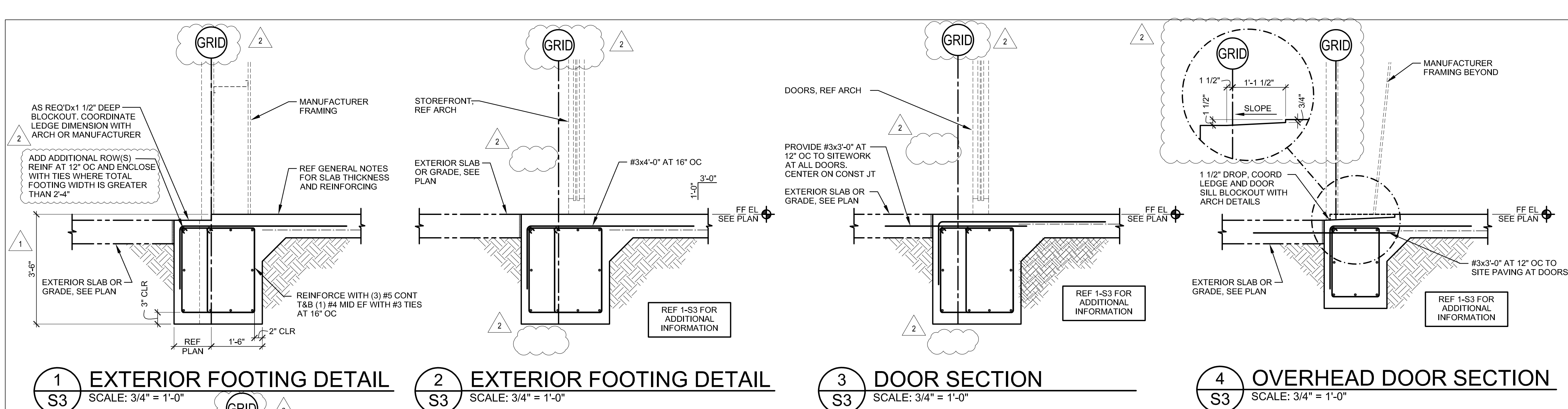
4
S2 SECTION AT AWNING
SCALE: 3/4" = 1'-0"



5
S2 SECTION AT HEADER
SCALE: 3/4" = 1'-0"



Jun 29, 2020 - 3:08pm - USER Colby Brown
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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
07/10/2020

wallace
Wallace Engineering
Structural Consultants, Inc.
1221 N. Main Street, Suite 200
Lee's Summit, MO 64082
913.341.5558, 800.344.5558

Firestone
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NEW FCAC STORE
2020 ER
3561 SW MARKET ST
JACKSON COUNTY
LEE'S SUMMIT, MISSOURI 64082

WALLACE ENGINEERING
STRUCTURAL CONSULTANTS, INC.
PROFESSIONAL ENGINEERING CORPORATION
MISSOURI CERTIFICATE OF AUTHORIZATION
#001268

STATE OF MISSOURI
JAMES R. WALLACE
Professional Engineer
No. 000000000018
2020.06.29 15:24:08-05'00'

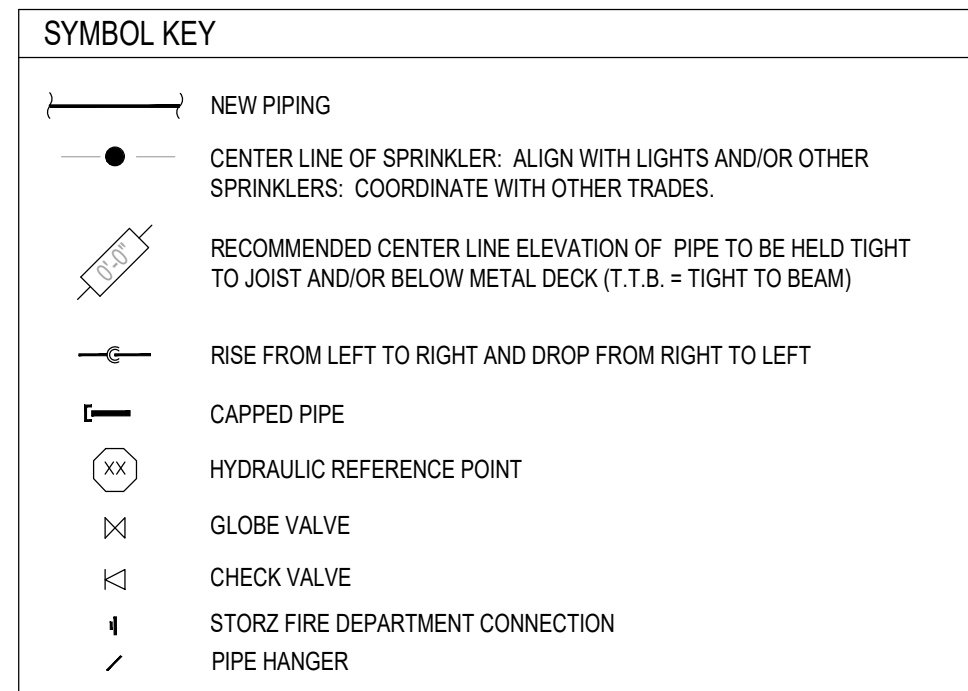
ISSUE BLOCK		
1	ADD #1	04/16/20
2	CB#1	06/30/20

PROPERTY NO.:	160085
6 DIGIT NO.:	906983
4 DIGIT NO.:	78C9
AOR PROJECT NUMBER:	1955B7.1
TO PERMIT:	DATE: 03/26/2020
TO BID:	DATE: ##-##-##

SHEET TITLE:
FOUNDATION DETAILS

SHEET NUMBER:
S3

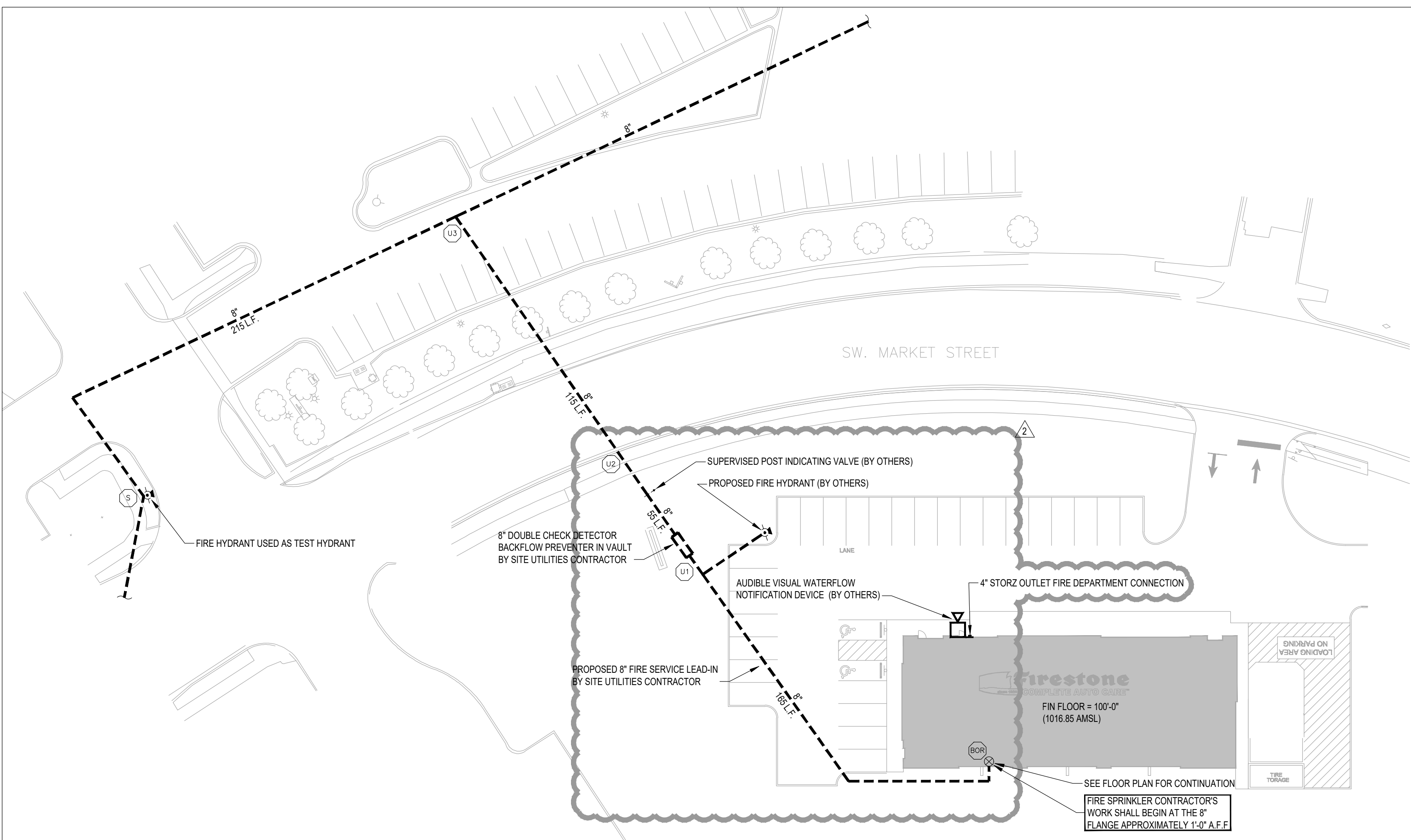
- FIRE SPRINKLER CONTRACTOR (FSC) BIDDING AND INSTALLATION
TIMELINE
- FIRE SPRINKLER CONTRACTORS SHALL PREPARE SPRINKLER BID BASED ON THESE CONTRACT DOCUMENTS (CDS). THE FSC SHALL DELIVER THEIR SHOP DRAWING SUBMITTAL (SDS) TO ARCHITECT FOR REVIEW NO MORE THAN TWO (2) WEEKS PRIOR TO THE START OF THE FSC'S WORK. SEE SPECIFICATION FOR ADDITIONAL DETAILS REGARDING THE FSC'S SDS.
 - THE ELECTRONIC VERSIONS (AUTOCAD) AND HYDRAULIC CALCULATION FILES WILL BE MADE AVAILABLE TO THE SUCCESSFUL FIRE SPRINKLER CONTRACTOR (FSC) FOR USE IN PREPARING THE SHOP DRAWING SUBMITTAL. THE FSC'S REQUEST SHALL BE MADE WITHIN TWO (2) WEEK OF SPRINKLER CONTRACT AWARD. ELECTRONIC DATA FILES WILL BE ELECTRONICALLY TRANSMITTED TO THE FSC UPON RECEIPT OF SIGNED ELECTRONIC RELEASE FORM. NOTE: THE FSC MAY UTILIZE OTHER HYDRAULIC CALCULATION PROGRAMS TO PRODUCE SHOP DRAWING SUBMITTAL.
 - AFTER SATISFACTORY REVIEW OF THE SDS, THE FSC SHALL SUBMIT TO ALL AUTHORITIES HAVING JURISDICTION FOR INSTALLATION PERMIT APPROVAL. WHERE APPLICABLE, THE FSC SHALL ALSO SUBMIT TO THE INSURANCE UNDERWRITER FOR INSURANCE PURPOSES. SUBMITTALS MAY OCCUR CONCURRENTLY WHERE SCHEDULES REQUIRE, BUT FIRE PROTECTION ENGINEER OF RECORDS REVIEW SHALL TAKE PRECEDENCE OVER ALL OTHER SUBMITTAL REVIEWS (NO EXCEPTIONS).
 - THE FSC SHALL BE RESPONSIBLE FOR RESPONDING, IN WRITING, TO ANY COMMENTS FROM ALL AUTHORITIES HAVING JURISDICTION WITHIN TEN (10) WORKING DAYS AFTER THE RECEIPT OF THEIR COMMENTS. COPIES OF THE RESPONSE SHALL BE SENT TO FIRE PROTECTION ENGINEER OF RECORD, ARCHITECT AND OWNER REPRESENTATIVES.
 - THE FSC SHALL COMPLETE ALL PRELIMINARY TESTING PROCEDURES PRIOR TO FINAL TESTING. SEE SPECIFICATION FOR ADDITIONAL DETAILS ON PRELIMINARY AND FINAL TESTING.
 - THE FSC SHALL COMPLETE AND SUBMIT ALL CONTRACTOR'S MATERIAL AND TEST CERTIFICATES (INCLUDE UNDERGROUND PIPING CERTIFICATE WHERE APPLICABLE) TO OWNER REPRESENTATIVE, PRIOR TO FINAL SYSTEM ACCEPTANCE.
 - THE FSC SHALL SUBMIT ALL PROJECT CLOSE-OUT DOCUMENTS TO OWNER REPRESENTATIVE, PRIOR TO FINAL SYSTEM ACCEPTANCE, IN ACCORDANCE WITH PROJECT REQUIREMENTS IN HARD COPY AND ELECTRONIC FILE FORMAT INCLUDING THE FOLLOWING ITEMS:
 - OPERATING AND MAINTENANCE INSTRUCTIONS.
 - AS-BUILT DOCUMENTS.
 - WARRANTY INFORMATION.



SPRINKLER LEGEND

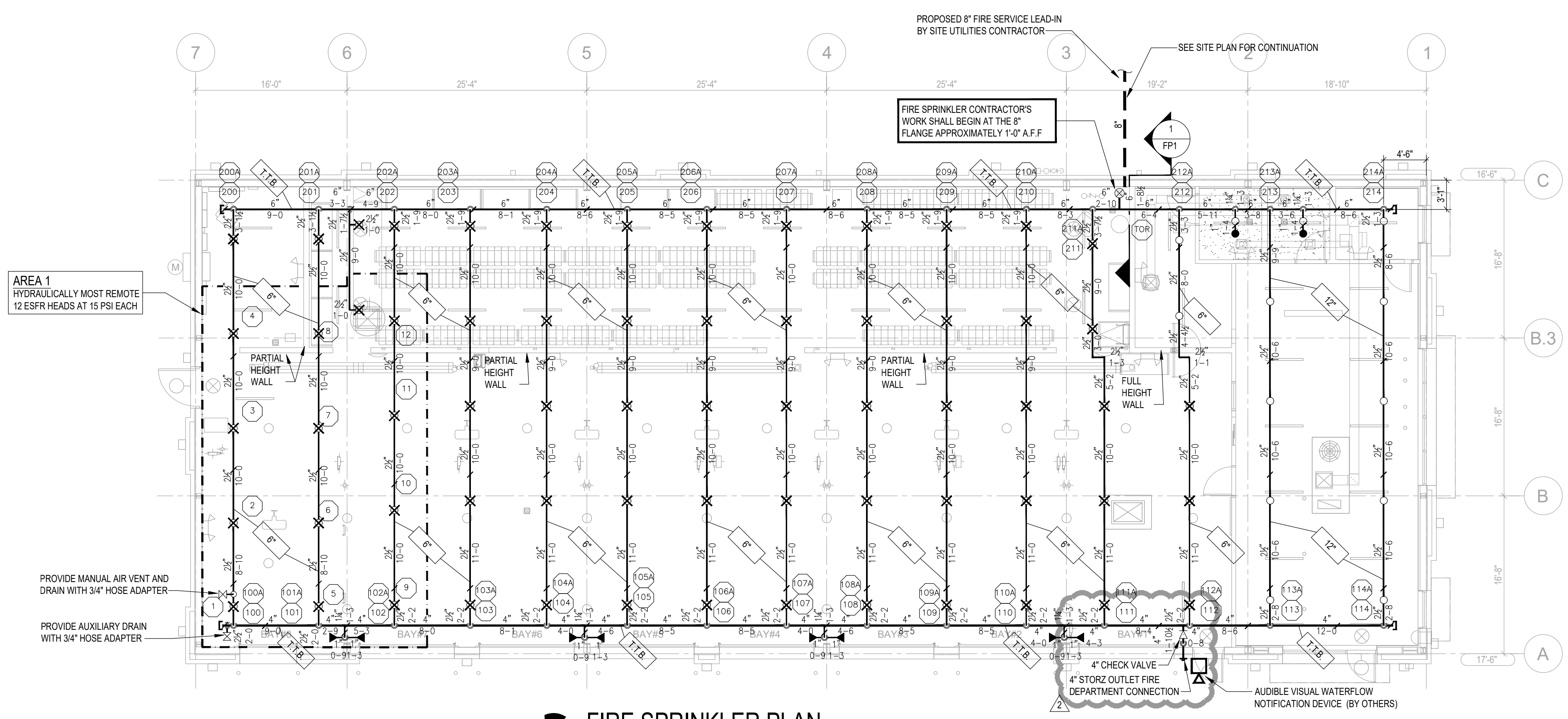
SYMBOL	SPRINKLER TYPE	TEMP.	K	FINISH	RESP.	QTY.
●	CHROME PENDENT WITH 2 PIECE ESCUTCHEON	ORD	5.6	CHROME	QR	2
○	UPRIGHT	INT	5.6	BRASS	QR	13
⊗	ESFR K25.2 PENDENT	INT	25.2	BRASS	ESFR	65
◀	BRASS HORIZONTAL SIDEWALL WITH GUARD	INT	5.6	BRASS	QR	8

ESFR SPRINKLER SYSTEM SHALL COMPLY WITH ALL OBSTRUCTION REQUIREMENTS WITHIN NFPA 13. COORDINATION WITH ALL TRADES WILL BE REQUIRED TO COMPLY

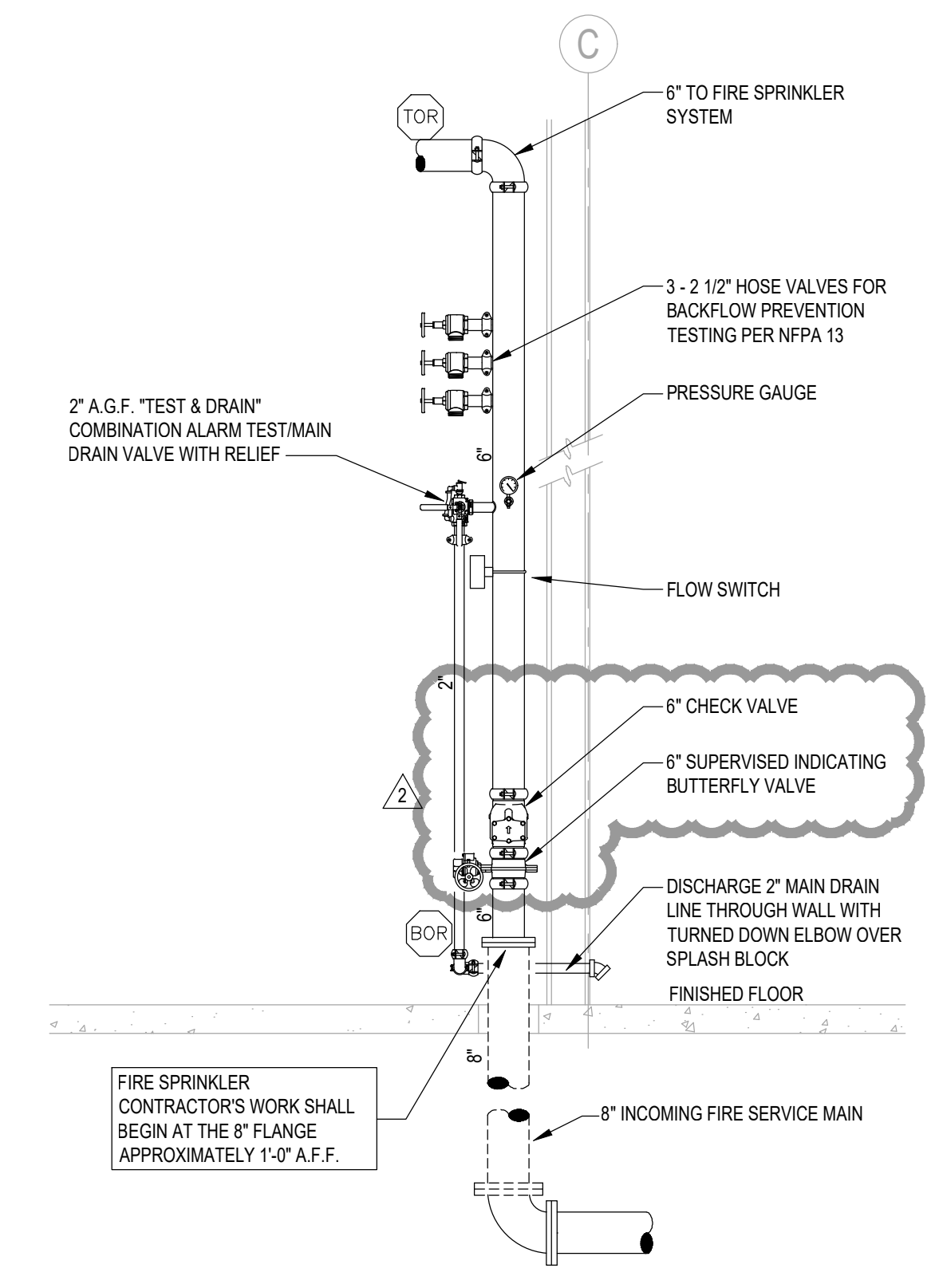


FIRE PROTECTION SITE PLAN
SCALE 1" = 30'-0"
FFE: 1,016.85 FT AMSL

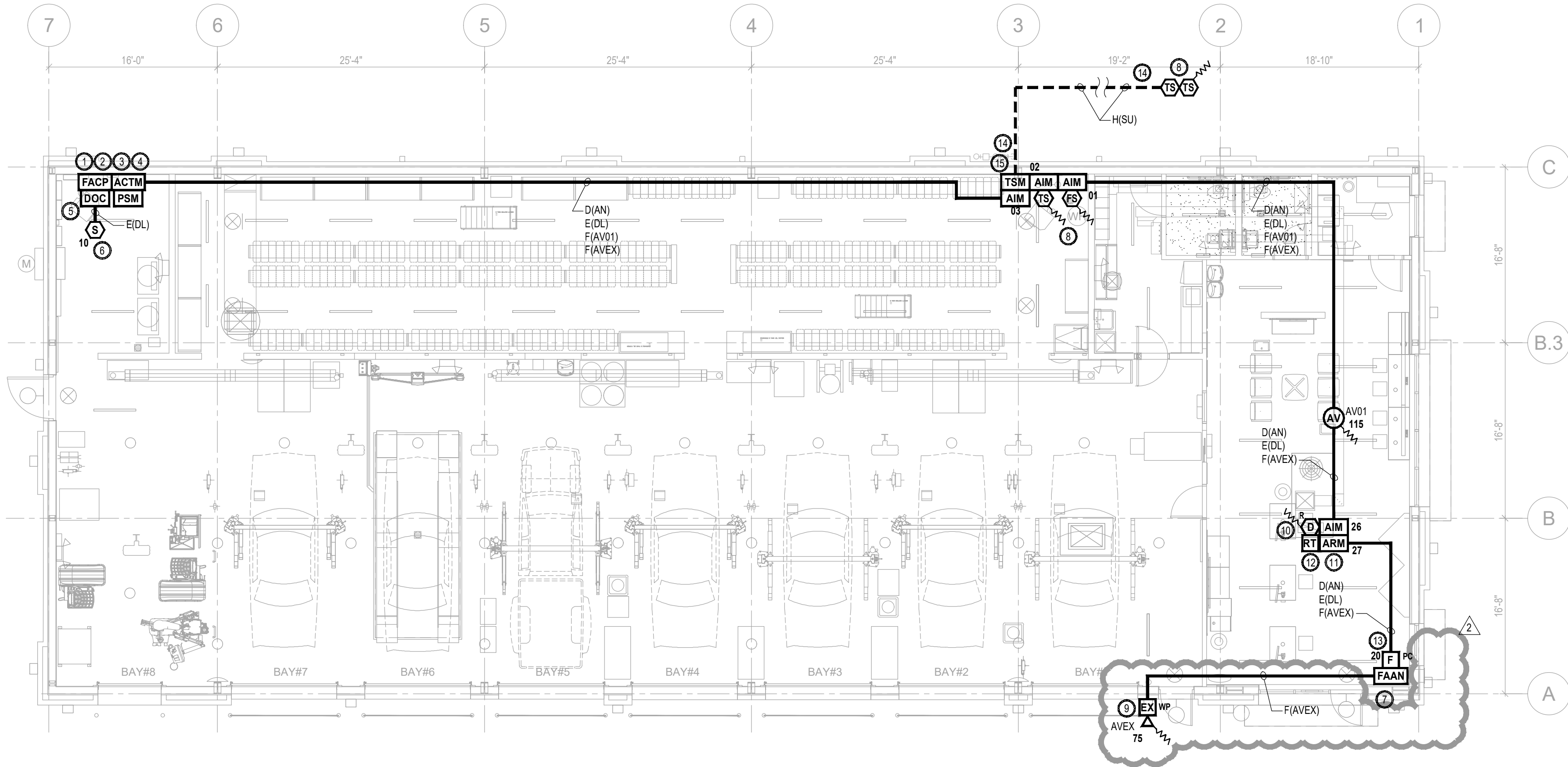
UNDERGROUND PIPING NOTE
ALL UNDERGROUND PIPING, VALVES, FITTINGS, DIMENSIONS, ETC. ARE SHOWN FOR REFERENCE ONLY. REFER TO CIVIL DRAWINGS FOR EXACT LOCATIONS, TYPES, AND SIZES OF ALL COMPONENTS IN ADDITION TO DETAILS OF CONSTRUCTION.



FIRE SPRINKLER PLAN
SCALE: 1/8" = 1'-0"
FIN. FLOOR ELEV. = 100'-0"



1
FP1
FIRE SPRINKLER RISER ELEVATION
NOT TO SCALE



FIRE ALARM PLAN
SCALE 1/8"=1'-0"
2 1 0 4 8

FIRE ALARM MATRIX

	ACTIVATES ALARM CONDITION AT FIRE ALARM CONTROL PANEL	ANNUNCIATES ALARM CONDITION AT REMOTE FIRE ALARM ANNUNCIATOR STATION	TRANSmits GENERAL ALARM SIGNAL TO APPROVED REMOTE SUPERVISING STATION	ACTIVATES SUPERVISORY CONDITION AT FIRE ALARM CONTROL PANEL	ANNUNCIATES SUPERVISORY CONDITION AT REMOTE FIRE ALARM ANNUNCIATOR STATION	TRANSmits GENERAL SUPERVISORY SIGNAL TO APPROVED REMOTE SUPERVISING STATION	ACTIVATES TROUBLE CONDITION AT FIRE ALARM CONTROL PANEL	ANNUNCIATES TROUBLE CONDITION AT REMOTE FIRE ALARM ANNUNCIATOR STATION	TRANSmits GENERAL TROUBLE SIGNAL TO APPROVED REMOTE SUPERVISING STATION	ACTIVATES INTERIOR AUDIBLE/VISUAL NOTIFICATION APPLIANCE	ACTIVATES EXTERIOR AUDIBLE/VISUAL NOTIFICATION APPLIANCE	SHUTS DOWN HVAC UNIT
FIRE SPRINKLER SYSTEMS												
- WATERFLOW SWITCHES	●	●	●		●	●				●	●	
- CONTROL VALVE TAMPER SWITCHES				●	●	●						
MANUAL PULL STATION												
- ADJACENT TO THE FAAN	●	●	●							●		
SMOKE DETECTION DEVICES												
- ABOVE FACP	●	●	●							●		
- AIR HANDLING UNIT - RETURN SIDE				●	●	●						●
LOSS OF PRIMARY POWER AT THE FACP							●	●	●			
ABNORMAL CIRCUIT (OPEN, GROUND FAULT, SHORT) OR DEVICE							●	●	●			

SCOPE OF WORK

- A DEDICATED FUNCTION FIRE ALARM SYSTEM SHALL BE PROVIDED THROUGHOUT THE BRIDGESTONE.
- THE FIRE ALARM SYSTEM SHALL REPORT ALL ALARM, SUPERVISORY, AND TROUBLE SIGNAL TO A REMOTE SUPERVISING STATION.
- THE FIRE ALARM SYSTEM SHALL CONSIST OF THE FOLLOWING:
 - ONE (1) INTERIOR AUDIBLE/VISUAL WITHIN THE SHOWROOM
 - ONE (1) EXTERIOR AUDIBLE/VISUAL APPLIANCE ABOVE THE FIRE DEPARTMENT CONNECTION
 - ONE (1) MANUAL PULL STATION WITH PROTECTIVE COVER ADJACENT TO THE FAAN
 - ONE (1) SMOKE DETECTOR ABOVE THE FACP
 - DUCT DETECTORS IN THE RETURN SIDE OF THE RTU
 - REMOTE TEST STATIONS FOR THE DUCT DETECTOR
 - SHUTDOWN THE AFFECTED RTU
 - FIRE ALARM ANNUNCIATOR ADJACENT TO THE FRONT ENTRANCE
 - POWER-LIMITED FIRE ALARM CABLING
 - MONITORING OF THE FIRE SPRINKLER CONTROL VALVES AND WATERFLOW SWITCHES
 - MONITORING OF THE EXTERIOR CONTROL VALVES TAMPER SWITCHES

PROJECT INFORMATION

PROJECT NAME: BRIDGESTONE LEE'S SUMMIT, MISSOURI
LOCATION: 3561 SOUTHWEST MARKET STREET
LEE'S SUMMIT, MO 64082
CONSTRUCTION TYPE: V-B
SQUARE FOOTAGE: 6,262 SQ. FT. 1-STORY
FIRE PROTECTION: SPRINKLERED
BUILDING OCCUPANCY: MIXED USE - MERCANTILE (SHOWROOM)
S-1 (INVENTORY AND SERVICE AREA)
OCCUPANT LOAD: 42 PERSONS
SYSTEM TYPE: DEDICATED FUNCTION FIRE ALARM SYSTEM

APPLICABLE CODES

ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REFERENCED DESIGN STANDARDS.

2018 INTERNATIONAL BUILDING CODE
2018 INTERNATIONAL FIRE CODE
2018 INTERNATIONAL MECHANICAL CODE
2017 NATIONAL ELECTRICAL CODE
2016 EDITION NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE

CONFLICTS BETWEEN THE REFERENCE NFPA STANDARDS, FEDERAL OR STATE CODES, SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF FIRE PROTECTION ENGINEER (CCE) FOR RESOLUTION.

FIRE ALARM SYMBOL KEY

		QTY.
FACP	ADDRESSABLE FIRE ALARM CONTROL PANEL (FIRE-LITE ES-50X) (IN RED ENCLOSURE)	1
FAAN	FIRE ALARM LCD ANNUNCIATOR (FIRE-LITE ANN-80)	1
DOC	DOCUMENTATION CABINET (SPACE AGE ELECTRONIC FAD ACE-11)	1
AIM	ADDRESSABLE INPUT MODULE (FIRE-LITE MMF-300)	4
ARM	ADDRESSABLE RELAY MODULE (FIRE-LITE CRF-300)	1
TSM	TRANSIENT SUPPRESSION MODULE (DITEK DTK-1LVLP-X)	1
ACTM	120 VAC TRANSIENT SUPPRESSION MODULE (DITEK DTK-120HW)	1
PSM	PHONE LINE SUPPRESSION MODULE (ELK-955 OR EQUAL)	1
F _{PC}	ADDRESSABLE DUAL ACTION MANUAL PULL STATION WITH PROTECTIVE COVER AND INTEGRAL SOUNDER (FIRELITE BG-12LX) (STI-1100 STOPPER II WITH SOUNDER)	1
S	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR (FIRE-LITE SD385)	1
D _R	DUCT-TYPE PHOTOELECTRIC SMOKE DETECTOR (FACTORY PROVIDED AND POWERED BY RTU) (R = RETURN SIDE)	1
RT	REMOTE TEST STATION / ANNUNCIATOR (SYSTEM SENSOR RTS15 KEY)	1
FS	FLOW SWITCH (BY OTHERS)	1
TS	TAMPER SWITCH (BY OTHERS)	4
AV _{XX}	CEILING MOUNTED RED AUDIBLE/VISUAL APPLIANCE (XX = CANDELA RATING) (SYSTEM SENSOR PC2RL)	1
EX _{WP} XX	WALL MOUNTED RED EXTERIOR AUDIBLE/VISUAL APPLIANCE (XX = CANDELA RATING) (WP = WEATHERPROOF) (SYSTEM SENSOR P2RK)	1
—	FIRE ALARM CONDUCTORS (RED IN COLOR)	
---	FIRE ALARM CONDUCTORS LISTED FOR WET LOCATION IN UNDERGROUND CONDUIT (1 INCH MINIMUM)	
~w~w	END OF LINE RESISTOR	

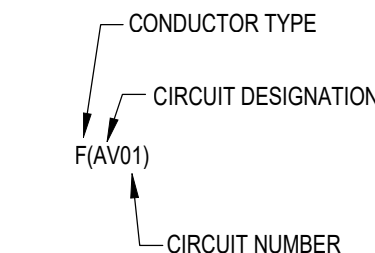
FIRE ALARM SHEET INDEX

SHEET #	DESCRIPTION
FA1	FIRE ALARM PLAN AND MATRIX
FA2	FIRE ALARM NOTES, PROGRAMMING AND CALCULATIONS
FA3	FIRE ALARM DETAILS
FA4	FIRE ALARM CONTROL PANEL LAYOUT

FIRE ALARM WIRING LEGEND

CONDUCTOR TYPE: D = 18/4 TP
E = 18/2 TP
F = 14/2 TP
G = AS REQ'D BY MANF.
H = 18/2 WET LOCATION
J = 14/2 WET LOCATION

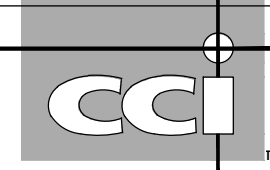
CIRCUIT DESIGNATION: AN = ANNUNCIATOR KEYPAD CIRCUIT
AV = AUDIBLE/VISUAL NOTIFICATION CIRCUIT
DL = INITIATION DATA CIRCUIT
PW = LOW VOLTAGE POWER CIRCUIT
RC = RELAY CONTROL CIRCUIT
RT = REMOTE TEST STATION POWER
SU = SUPERVISORY CIRCUIT
ZN = INITIATION ZONE CIRCUIT



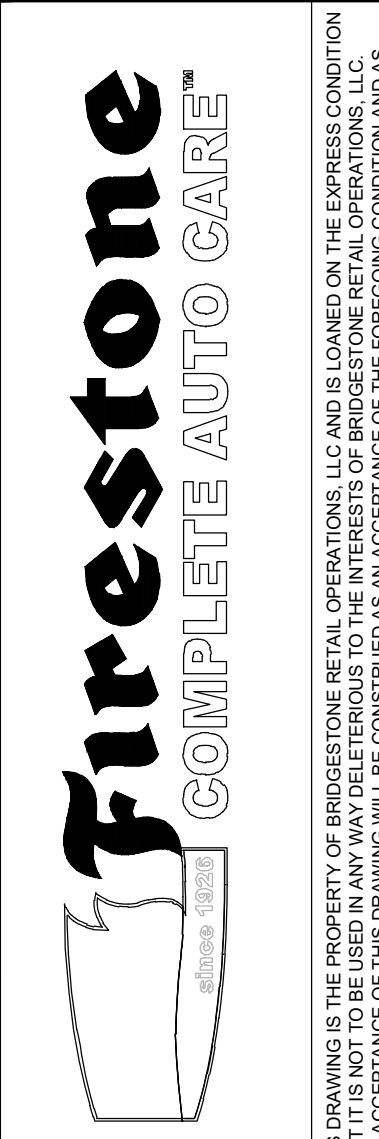
SHOULD MANUFACTURER OF FIRE ALARM EQUIPMENT REQUIRE A DIFFERENT TYPE OR SIZE OF CABLE THAN HEREIN SPECIFIED, THE LARGER OR MORE STRINGENT TYPE OF CABLE SHALL BE USED.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

07/10/2020

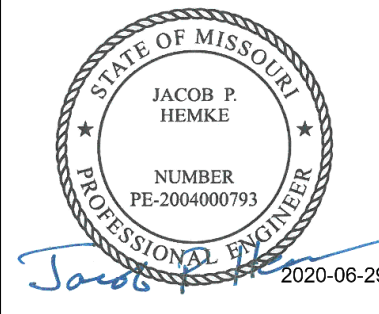


CODE CONSULTANTS, INC.
2043 WOODLAND PKWY, SUITE 300
ST. LOUIS, MISSOURI 63146-4235
314-991-2633
www.codeconsultants.com



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NEW FCAC STORE
2020 ER
3561 SW MARKET ST
JACKSON COUNTY
LEE'S SUMMIT, MISSOURI 64082



FIRE PROTECTION
ENGINEER OF RECORD:
JACOB P. HEMKE, PE
LICENSE NO. PE-2004000793
CODE CONSULTANTS, INC.
2043 WOODLAND PKWY, SUITE 300
ST. LOUIS, MO 63146-4235
PHONE: 314-991-2633
CORPORATE CERTIFICATE OF AUTHORITY
NO. 000419

ISSUE BLOCK

1	04/16/20	ADD #1
2	06/30/20	CB #1

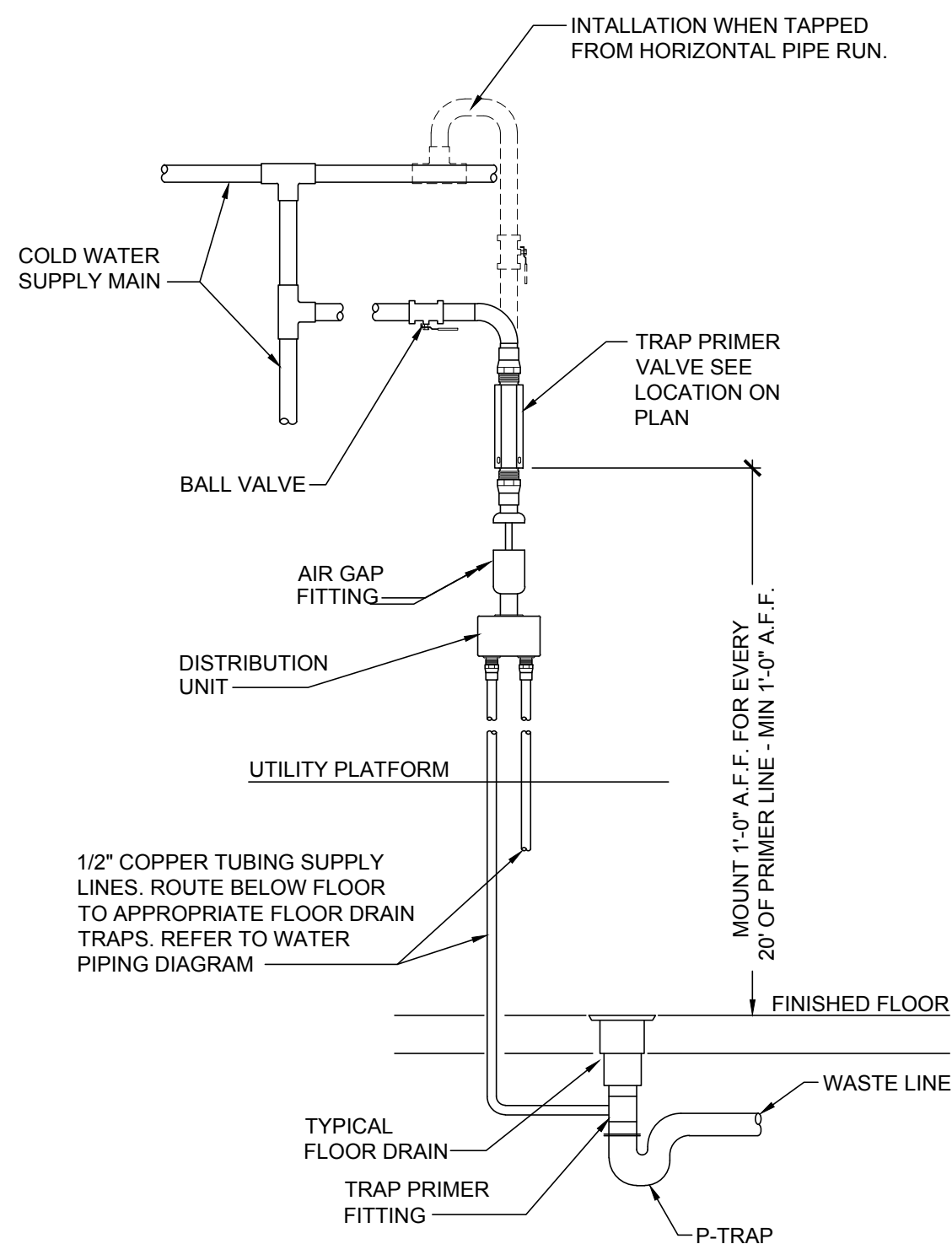
PROPERTY NO.: 160085
6 DIGIT NO.: 906983
4 DIGIT NO.: 78C9

AOR PROJECT NUMBER: 1955B71
TO PERMIT: DATE: 03/26/2020
TO BID: DATE: ###-##-##

SHEET TITLE:
FIRE ALARM PLAN
AND MATRIX

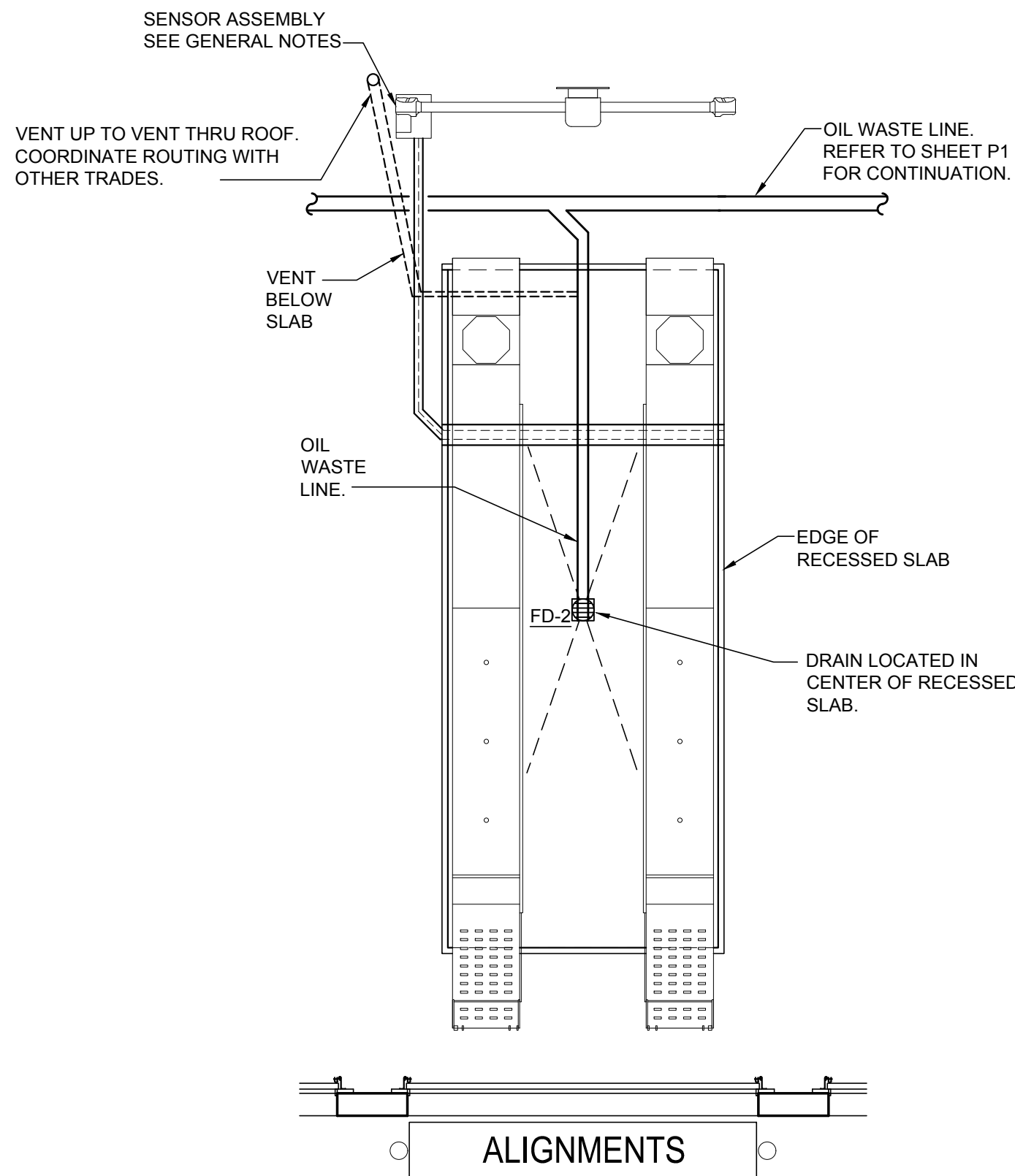
SHEET NUMBER:

FA1

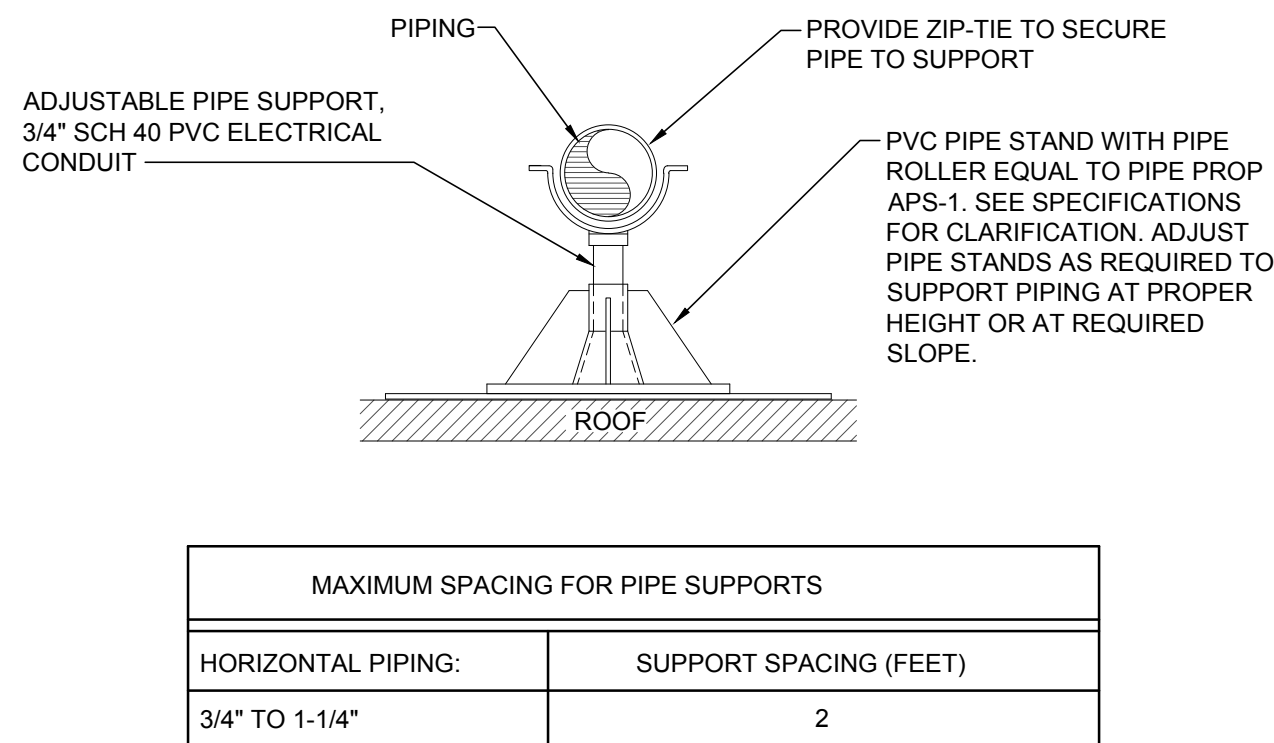


1
P5 TRAP PRIMER DETAIL (TP-1)
SCALE: N.T.S.

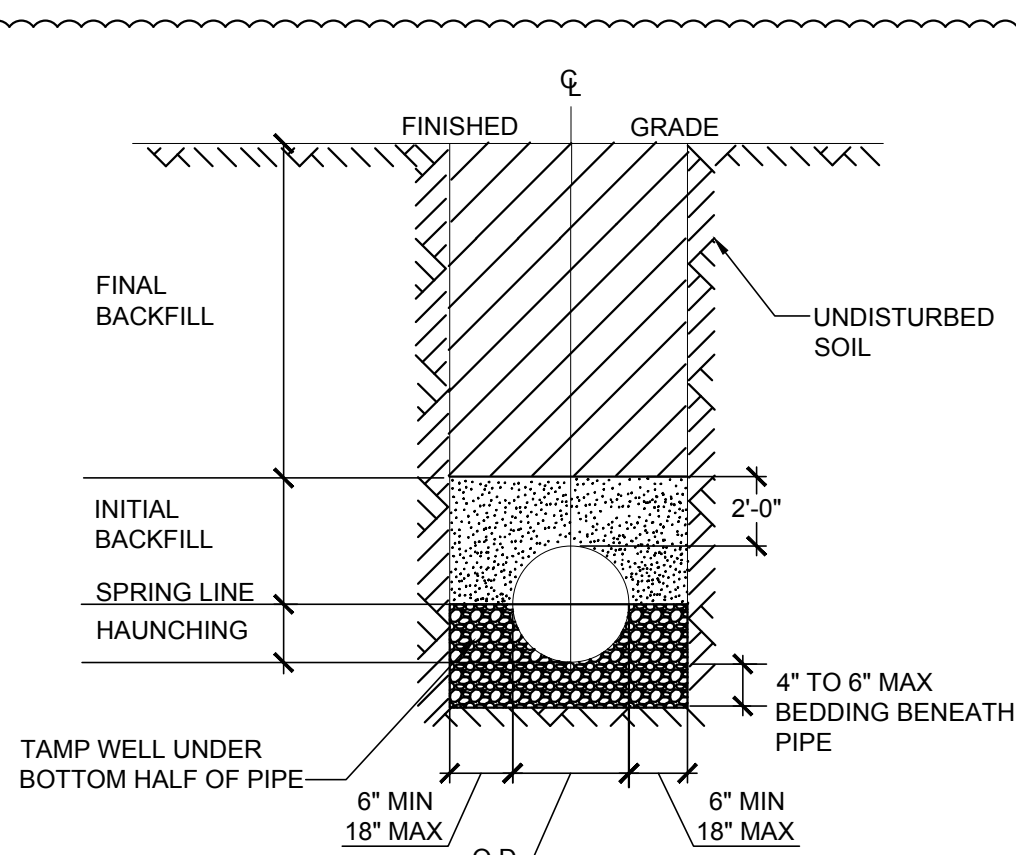
NOTE:
DETAILS SHOWN HERE ARE DIAGRAMMATICAL ONLY AND ARE NOT INTENDED TO SHOW EVERY FITTING AND/OR OFFSET. SEE MANUFACTURER'S SPECIFIC INSTALLATION INSTRUCTIONS AND DETAILS. INSTALLATION CONTRACTOR IS TO BE CERTIFIED AND AUTHORIZED BY THE MANUFACTURER.



7
P5 ALIGNMENT RACK PIPING DETAIL
SCALE: N.T.S.

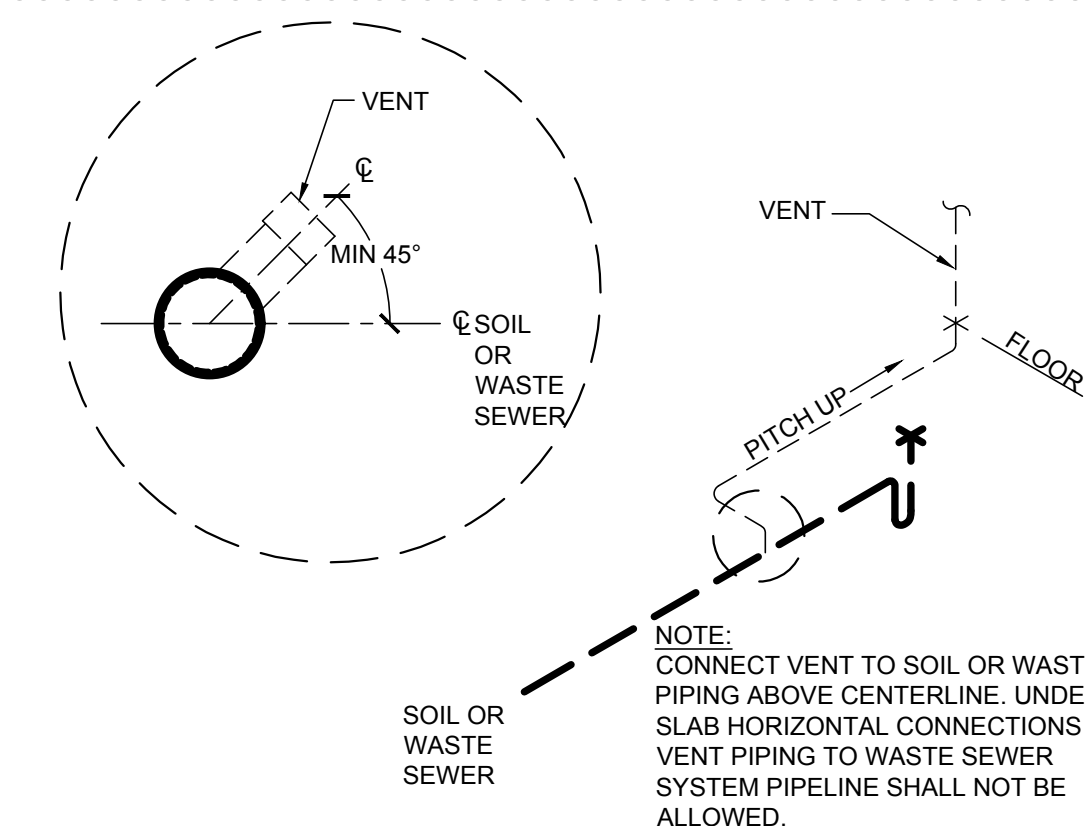


2
P5 ROOF MOUNTED PIPING SUPPORT DETAIL
SCALE: N.T.S.

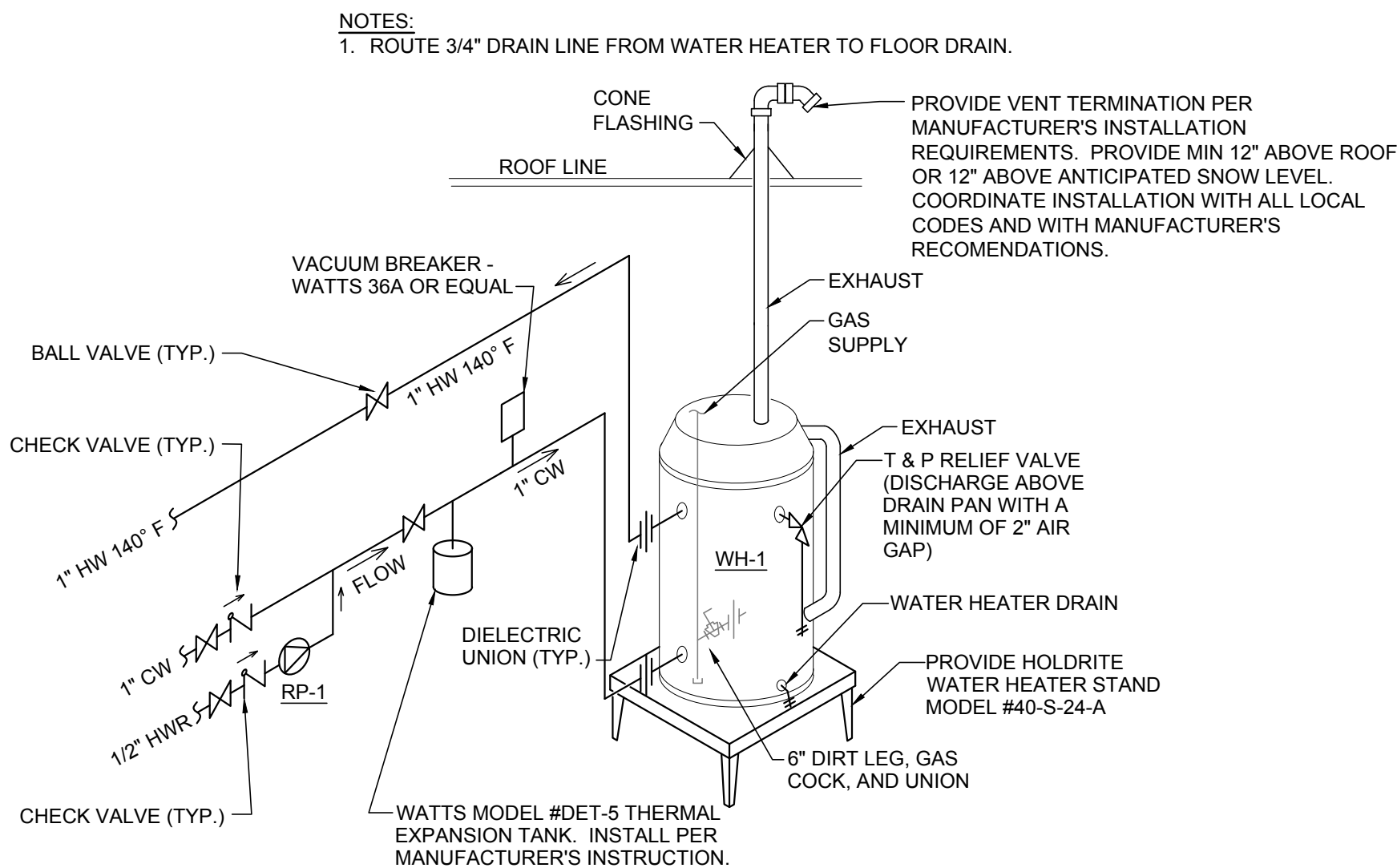


- NOTE:
- BEDDING SHALL BE IN CLASS I-A WORKED BY HAND, IF GROUNDWATER IS ANTICIPATED, THEN BEDDING SHALL BE CLASS I-B COMPACTED TO 85% STANDARD PROCTOR.
 - HAUNCHING SHALL BE WORKED AROUND THE PIPE BY HAND TO ELIMINATE VOIDS AND SHALL BE CLASS I-A OR CLASS I-B OR CLASS II COMPACTED TO 85% PROCTOR.
 - INITIAL BACKFILL SHALL BE CLASS I-A WORKED BY HAND OR CLASS I-B OR CLASS II COMPACTED TO 85% STANDARD PROCTOR.
 - FINAL BACKFILL SHALL BE CLASS I, II, OR III COMPACTED AS NOTED IN NOTE 3.
 - ALL BACKFILL MATERIALS SHALL BE IN ACCORDANCE WITH ASTM D 2321.
 - ALL MATERIALS SHALL BE INSTALLED IN MAXIMUM 6" LOOSE LIFTS IN ACCORDANCE WITH ASTM D 698. CLASS II AND IV-A MATERIALS SHALL BE COMPACTED NEAR OPTIMUM MOISTURE CONTENT.
 - FILL SALVAGED FROM EXCAVATION SHALL BE FREE OF DEBRIS, ORGANICS, ROCKS, AND ICE LARGER THAN 3".
 - ALL TRENCH EXCAVATIONS SHALL BE SLOPED SHORED, SHEETED, BRACED, OR OTHERWISE SUPPORTED IN COMPLIANCE WITH OSHA REGULATIONS AND LOCAL ORDINANCES.
 - COORDINATE WITH ALL STATE AND LOCAL CODE RECOMMENDATIONS ON TRENCHING AND BACKFILLING SANITARY PIPE. INSTALL PER ANY LOCAL OR STATE REGULATION THAT SUPERSEDES ABOVE DETAIL OR INFORMATION.

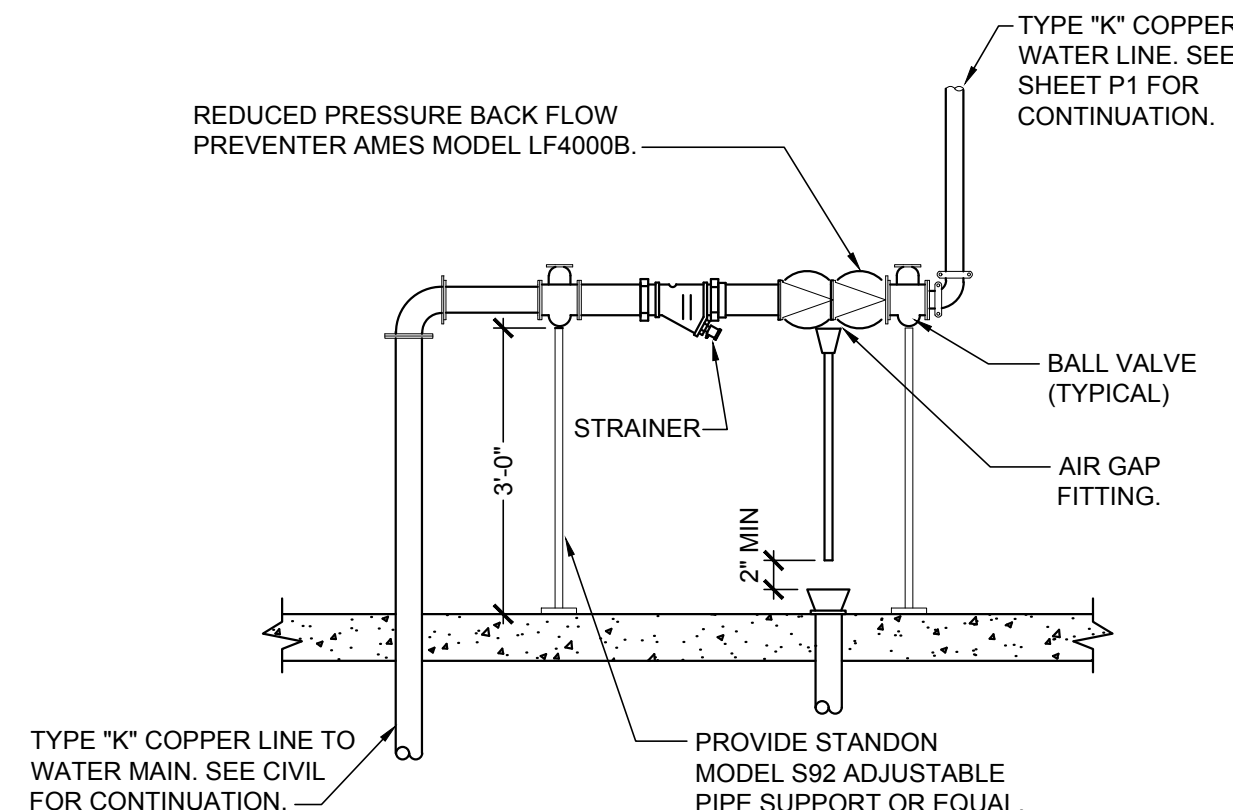
6
P5 SANITARY SEWER BACKFILL DETAIL
SCALE: N.T.S.



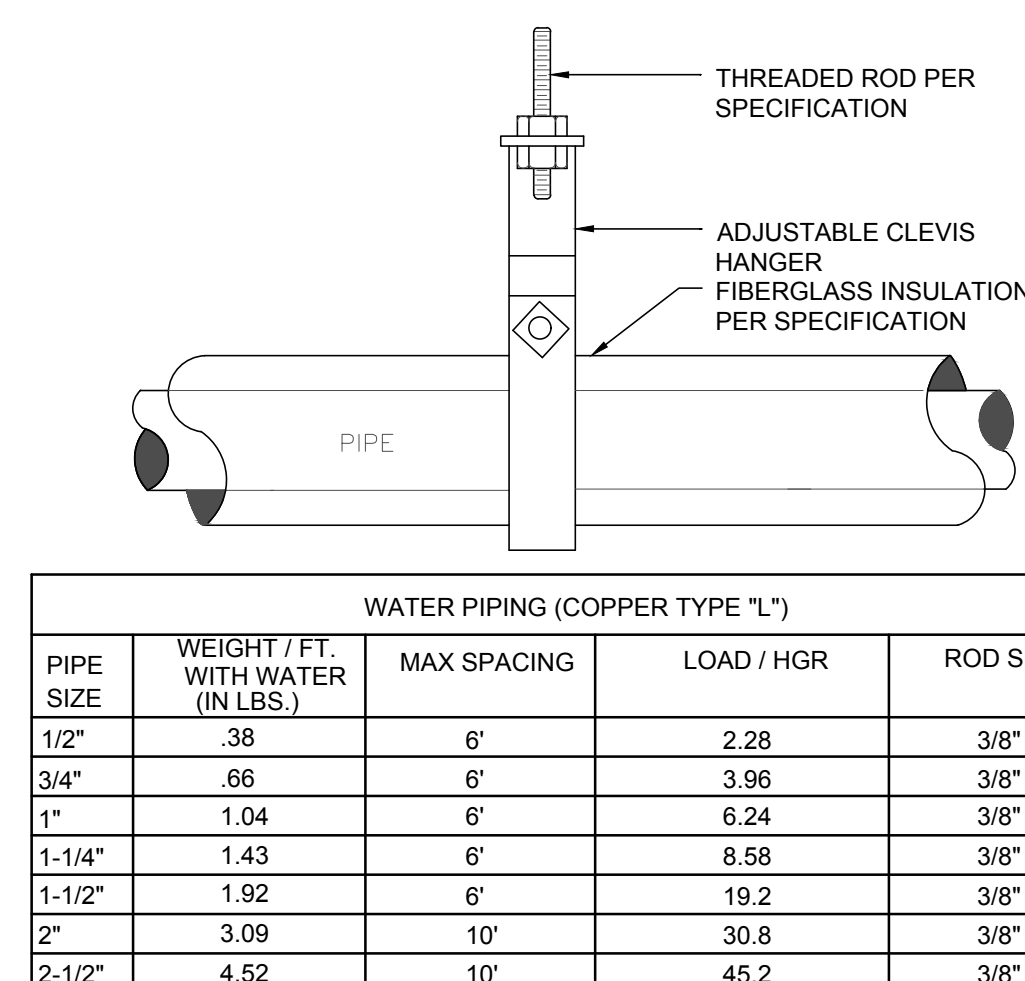
8
P5 VENT PIPING INSTALLATION
SCALE: N.T.S.



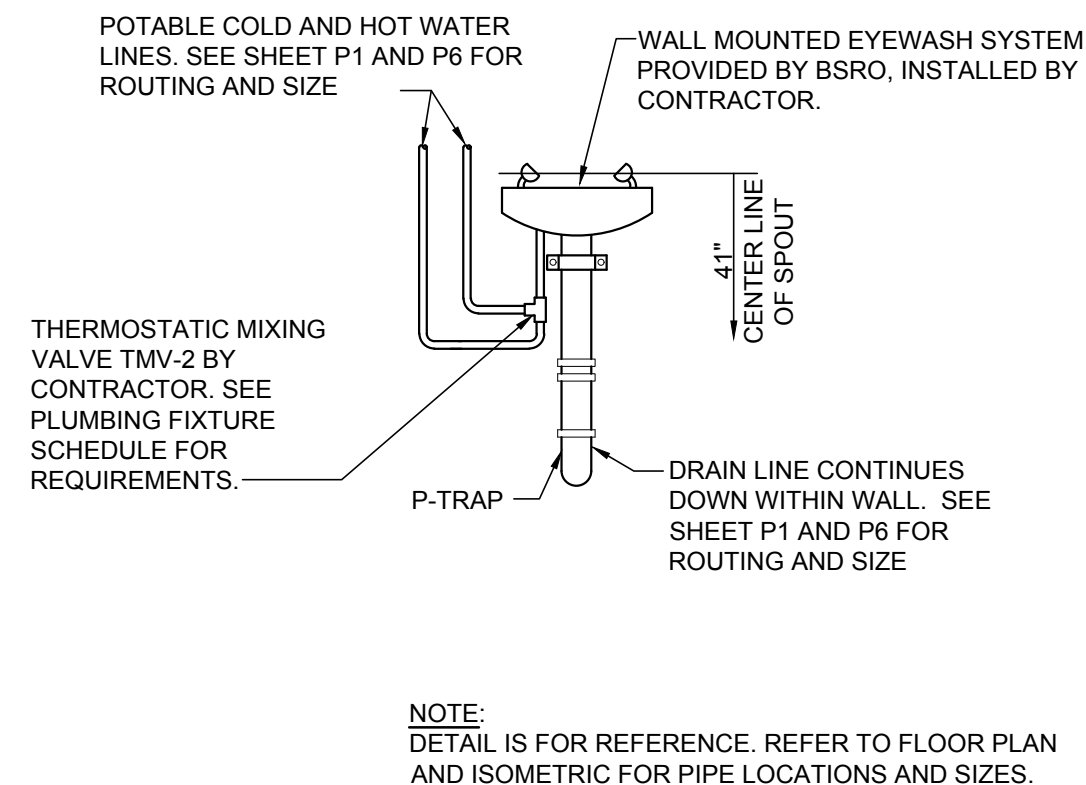
3
P5 GAS FIRED WATER HEATER DETAIL
SCALE: N.T.S.



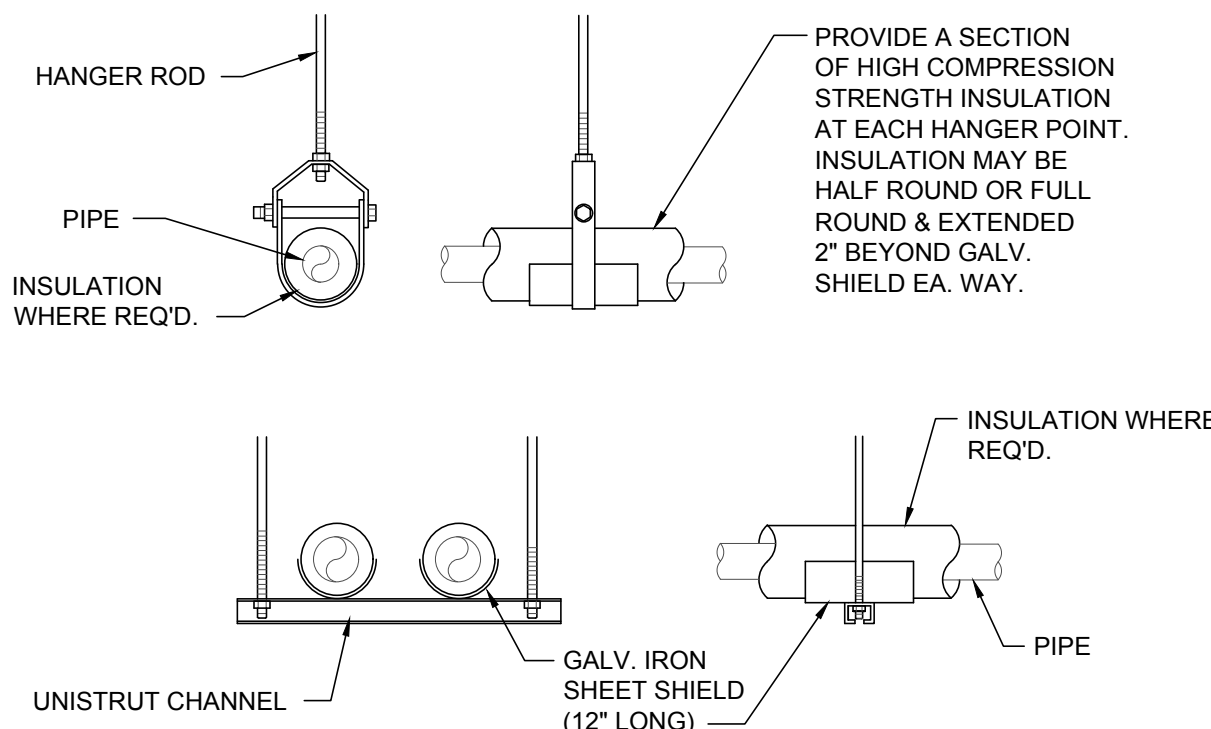
5
P5 WATER SERVICE DIAGRAM
SCALE: N.T.S.



9
P5 PIPE SUPPORT DETAIL
SCALE: N.T.S.



4
P5 EYEWASH PIPING DETAIL
SCALE: N.T.S.



- NOTES
- ATTACH SUPPORTS FOR ALL PIPING SUSPENDED FROM THE STEEL STRUCTURE PER MANUFACTURER'S RECOMMENDATIONS.
 - PROVIDE COPPER OR PLASTIC COATED HANGERS FOR NON-INSULATED COPPER PIPE.

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AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

ACERTUS
CONSULTING GROUP, LLC
14817 West Park Street • Lees Summit, MO 64063
P 913.322.5150 • F 913.322.5155
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Proj# 202.0075

Firestone
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JACKSON COUNTY
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ISSUE BLOCK			
1	04/16/20	ADD	#1
2	06/30/20	CB	#1
PROPERTY NO.:		160085	
6 DIGIT NO.:		906983	
4 DIGIT NO.:		78C9	
AOR PROJECT NUMBER:		1955B71	
TO PERMIT:		DATE: 03/26/2020	
TO BID:		DATE: ##-##-##	
SHEET TITLE:			
PLUMBING DETAILS			
SHEET NUMBER: P5			

ELECTRICAL SYMBOLS

NOT ALL SYMBOLS ARE NECESSARILY USED ON DRAWINGS. ALL MOUNTING HEIGHTS ARE TO BE FROM THE CENTER OF THE DEVICE, UNLESS NOTED OTHERWISE.

LIGHTING FIXTURES

	4' LINEAR LIGHT (UPPER CASE LETTER INDICATES FIXTURE TYPES, UPPER CASE LETTERING WITH HYPHEN FOLLOWED BY A NUMBER INDICATES PANEL AND CIRCUIT NUMBER, LOWER CASE LETTER INDICATES SWITCHING).
	HIGH BAY LIGHT
	PENDANT LIGHT
	REMOTE EMERGENCY HEAD
	EXTERIOR WALL PACK
	POLE MOUNTED SITE LIGHT
	4' LINEAR LIGHT WITH EMERGENCY BATTERY BACKUP
	EMERGENCY LIGHT WITH BATTERY BACK-UP
	EXIT SIGN WITH EMERGENCY BATTERY BACKUP (HATCH INDICATES ILLUMINATED FACE; DIRECTIONAL ARROWS ON SIGN AS INDICATED)

MISCELLANEOUS

	JUNCTION BOX
	EXTERIOR PHOTOCCELL
	CEILING MOUNTED OCCUPANCY SENSOR (LOWER CASE LETTER INDICATES SWITCHING)
	CORNER MOUNTED OCCUPANCY SENSOR (LOWER CASE LETTER INDICATES SWITCHING)
	PUSH BUTTON STATION (MOUNTING HEIGHT 48" AFF)
	TELEPHONE OUTLET BOX, WALL-TYPE WITH 3/4" CONDUIT STUBBED UP IN WALL AND TURNED OUT IN CEILING AREA WITH INSULATED BUSHING. (MOUNTING HEIGHT 18" AFF)
	TELEPHONE/DATA OUTLET BOX, WALL-TYPE WITH 3/4" CONDUIT STUBBED UP IN WALL AND TURNED OUT IN CEILING AREA WITH INSULATED BUSHING. (MOUNTING HEIGHT 18" AFF)
	DATA OUTLET BOX, WALL-TYPE WITH 3/4" CONDUIT STUBBED UP IN WALL AND TURNED OUT IN CEILING AREA WITH INSULATED BUSHING. (MOUNTING HEIGHT 18" AFF)
	MECHANICAL EQUIPMENT TAG (UPPER HALF INDICATES EQUIPMENT TYPE, BOTTOM HALF INDICATES EQUIPMENT NUMBER) *REFER TO MECHANICAL SCHEDULES ON SHEET M3.

SWITCHES

	SINGLE-POLE SWITCH (MOUNTED AT 48" AFF) (LOWER CASE LETTER INDICATES SWITCHING)
	SINGLE-POLE SWITCH WITH PILOT LIGHT (MOUNTED AT 48" AFF)
	3-WAY SWITCH (MOUNTED AT 48" AFF)
	OCCUPANCY SENSOR SWITCH
	SINGLE-POLE, MOTOR-RATED SWITCH
	2-POLE, MOTOR-RATED SWITCH
	SWITCH BANK WITH COVERPLATE

POWER AND CONTROL

	TRANSFORMER
	PANEL
	MOTOR
	DISCONNECT SWITCH (NON-FUSED EXCEPT AS NOTED)
	COMBINATION STARTER DISCONNECT SWITCH

RECEPTACLES*

	SINGLE RECEPTACLE (GROUND TYPE)
	DUPLEX RECEPTACLE (GROUND TYPE)
	DUPLEX RECEPTACLE IG
	DUPLEX RECEPTACLE GFCI
	QUAD RECEPTACLE
	QUAD RECEPTACLE IG
	QUAD RECEPTACLE GFCI
	SPECIAL RECEPTACLE (AS NOTED)

* REFERENCE SHEET E3 FOR SPECIFIC ROOM MOUNTING HEIGHT REQUIREMENTS.

ELECTRICAL ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	GFCI	GROUND FAULT INTERRUPTER	SW	SWITCH
BFC	BELOW FINISHED CEILING	IC	INTERRUPTING CAPACITY	TR	TAMPER RESISTANT
C	CONDUIT	IG	ISOLATED GROUND	TYP	TYPICAL
CB	CIRCUIT BREAKER	MTD	MOUNT OR MOUNTED	UF	UNDER FLOOR
CLG	CEILING	NC (N.C.)	NORMALLY CLOSED	UG	UNDERGROUND
EC	EMPTY CONDUIT	NF	NON FUSED	UNO (U.N.O.)	UNLESS NOTED OTHERWISE
EOL	END OF LINE	NIC	NOT IN CONTRACT	WG	WIRE GUARD
EWL	ELECTRIC WATER COOLER	NL	NIGHT LIGHT	WP	WEATHERPROOF
(G)	GROUND (EQUIPMENT)	NO (N.O.)	NORMALLY OPEN	XFMR	TRANSFORMER

LIGHT FIXTURE SCHEDULE

FIXTURE TAG	MANUFACTURER	MODEL #	LAMP	VOLTAGE	INSTALLATION	DESCRIPTION	WATTS	QUANTITY	NOTES
A	CDS LIGHTING	KIRK-P-USV	LED BULB (50W PAR20 EQUIV)	120V	SUSPENDED	DECORATIVE LED PENDANT	12	7	8
D	CREE	LS4C-40L-35K-10V-FD	LED	120V	CEILING AND SUSPENDED	4' LINEAR STRIP, 4,000 LUMENS, 3500K, 80 CRI	30	33	3,6,9
DE	CREE	LS4C-40L-35K-10V-FD-EB14	LED	120V	CEILING AND SUSPENDED	4' LINEAR STRIP, 4,000 LUMENS, 3500K, 80 CRI WITH EMERGENCY BACKUP	30	10	3,6,9
E	CREE	E-XML1W	LED	120V	SEE NOTES	EMERGENCY DUAL HEAD LIGHTING UNIT	1.8	9	1
EA	CREE	E-XHL2WG	LED	120V	WALL	EMERGENCY EXTERIOR REMOTE DUAL HEAD WET LOCATION LISTED	2	3	2
F	CREE	KBL-A-UV-M-40K-8-UL-10V + ALR16; WG-A; AP-515P	LED	120V	SUSPENDED	HIGH BAY, 20900 LUMENS, 4000K, 80 CRI	142	21	3
K	FURNISHED BY BSRO	FURNISHED BY BSRO	INTEGRAL LED	120V	SUSPENDED	FIRESTONE CORD REEL LIGHT	5	8	5
N	CREE	XSPW-B-WM-3ME-2L-57K-UL	LED	120V	EXTERIOR WALL	EXTERIOR WALL PACK, TYPE III 2490 LUMENS, 5700K	19	19	7
X	CREE	E-XCL2RRCW	LED	120V	SEE NOTES	EXIT SIGN WITH TWO LAMP HEADS REMOTE CAPABILITY (SEE TYPE EA)	3.4	7	4

NOTES:

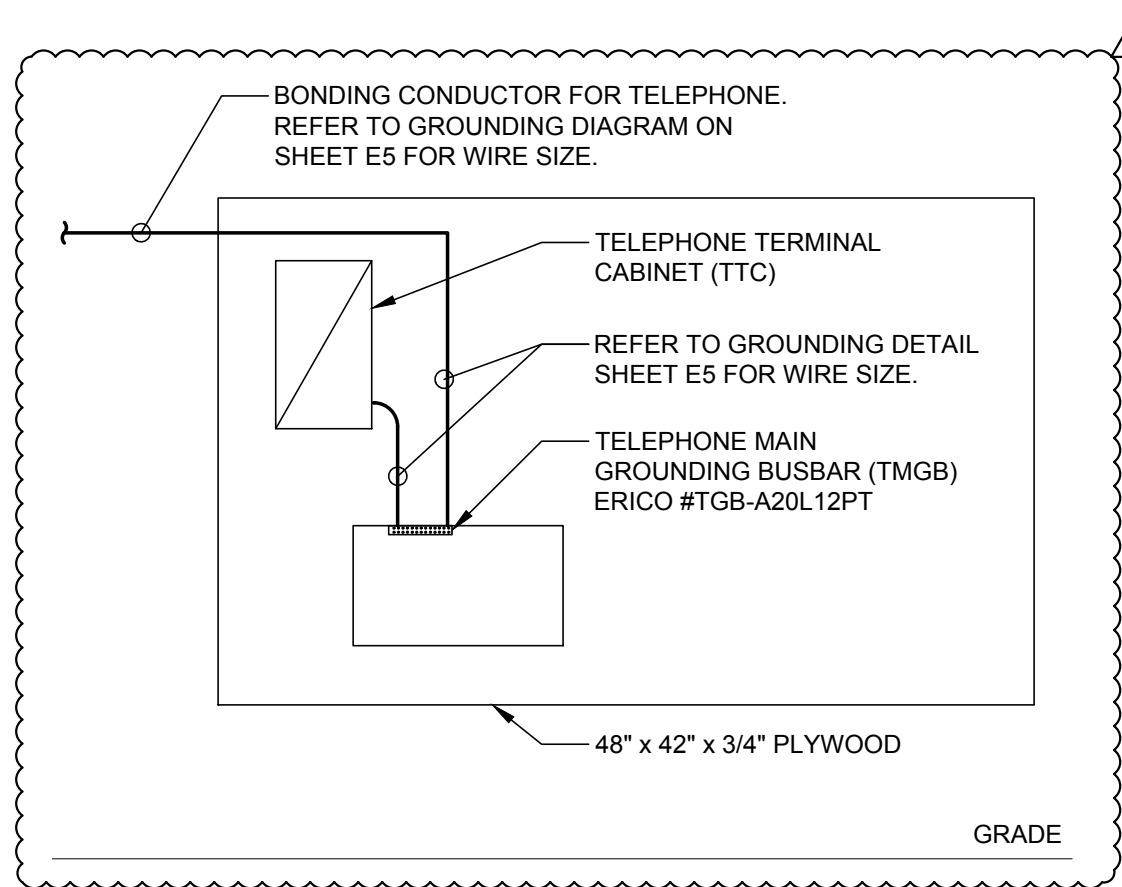
1. FIXTURE MOUNTED 12" BELOW CEILING OR AT 13'-6" AFF IN ALL AREAS WITHOUT A CEILING. MOUNT TO STUDS AT 13'-6" AFF IN UTILITY ROOM.
2. MOUNT ON WALL MINIMUM OF 12" ABOVE DOOR JAMB. CONNECT TO BATTERY SIDE OF EXIT LIGHT.
3. INSTALL LIGHTS AT 13'-0" AFF IN THE SERVICE BAY, UNLESS NOTED OTHERWISE.
4. MOUNT EXIT SIGNS IN SHOWROOM AT 12'-0" AFF TO BOTTOM OF SIGN. IN ALL OTHER AREAS, MOUNT ON WALL 6" ABOVE DOOR OR MOUNT ON CEILING AS APPLICABLE (MAXIMUM 8'-0" AFF).
5. COORDINATE EXACT FIXTURE PLACEMENT WITH ARCHITECTURAL DRAWINGS.
6. INSTALL LIGHTS AT STRUCTURE LEVEL IN THE FOLLOWING AREAS: INVENTORY. INSTALL LIGHTS AT 10'-0" AFF IN THE FOLLOWING AREAS: CUSTOMER SHOW ROOM AND OFFICE.
7. REFERENCE ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT.
8. FIXTURES ARE TO BE SUSPENDED FROM STRUCTURE AT 80" AFF TO BOTTOM. PROVIDE 10'-6" LONG CORD. SPECIFY CORD LENGTH TO MANUFACTURER. REFER TO SPECS SECTION 265119-3.3H FOR MORE INFORMATION.
9. FIXTURES ARE TO BE SUSPENDED FROM STRUCTURE WITH ALL-THREADED ROD. REFER TO SPECS SECTION 265119-3.3H FOR MORE INFORMATION.

LIGHTING GENERAL NOTES

1. ALL LIGHTING FIXTURES SHALL BE RATED FOR BUILDING SYSTEM VOLTAGE. CONTRACTOR MUST VERIFY ALL LOCATIONS. CONTRACTOR SHALL FURNISH AND INSTALL EACH LIGHTING FIXTURE COMPLETE WITH PLASTER FRAMES AND ALL OTHER INSTALLATION AND HANGING HARDWARE AS REQUIRED FOR A COMPLETE AND FINISHED INSTALLATION AT EACH FIXTURE LOCATION.
2. VERIFY AND COORDINATE ALL LIGHTING FIXTURE CATALOG NUMBERS AND LOCATIONS WITH THE INTENT OF FIXTURE DESCRIPTIONS LISTED AND VERIFY FIXTURE QUANTITIES. FIXTURE QUANTITIES SHOWN ARE FOR INFORMATION ONLY. ANY DISCREPANCY SHALL BE REPORTED IN WRITING TO THE ARCHITECT PRIOR TO INSTALLATION.
3. ALL FIXTURES SHALL BE U.L. LABELED. ALL LIGHTING FIXTURES EXPOSED TO WEATHER OR MOISTURE SHALL BEAR U.L. "WET LOCATION" LABEL, AND LIGHTING FIXTURES EXPOSED TO DAMPNESS SHALL BEAR U.L. "DAMP LOCATION" LABEL.
4. ALL EXIT SIGNS SHALL BE INSTALLED COMPLETE WITH ALL ACCESSORIES REQUIRED TO PROVIDE AN UNOBSTRUCTED VIEW OF EACH SIGN FACE. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND LOCATION OF ALL EXIT SIGNS WITH LOCAL AUTHORITIES. EXIT SIGNS WILL BE ADJUSTED AS NECESSARY WITHOUT ADDITIONAL COST.
5. FIELD ADJUST AIMING PATTERN OF EXTERIOR LIGHTS AT NIGHT SESSION. BSRO TO DETERMINE TIME AND DATE.
6. ALL EXIT SIGNS AND BATTERY EMERGENCY UNITS MUST BE APPROVED BY LOCAL CODE. MAINTAIN A MINIMUM OF 90 MINUTES OF CONTINUOUS ILLUMINATION, AND SHALL PROVIDE A MINIMUM OF 1 FOOT-CANDLE AT THE WALKING SURFACE LEVEL IN SPACES THAT REQUIRE TWO OR MORE MEANS OF EGRESS. THE CONTRACTOR WILL FURNISH AND INSTALL ANY ADDITIONAL EMERGENCY UNITS AS REQUESTED BY THE LOCAL AUTHORITY HAVING JURISDICTION AT THE FINAL INSPECTION ANY ADDITIONAL COST TO BE APPROVED BY BSRO.
7. REFER TO APPLICABLE SECTIONS OF THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR LIGHTING FIXTURES.

GENERAL ELECTRICAL NOTES

1. THESE GENERAL NOTES APPLY TO ALL WORK IN THIS PROJECT, AND THE WORD "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".
2. REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL GENERAL NOTES WHICH WILL APPLY HERE.
3. NOTES ON DRAWINGS MAY APPLY TO ALL SIMILAR CONDITIONS WHETHER THEY ARE REPEATED OR NOT.
4. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE A.D.A.A.G. (AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES).
5. CONTRACTOR MUST VISIT THE SITE TO FAMILIARIZE THEMSELVES WITH THE EXISTING SITE CONDITIONS WHICH WILL BE AFFECTED DURING CONSTRUCTION PRIOR TO SUBMITTING HIS BID PROPOSAL.
6. WHERE SEVERAL DEVICES ARE GANGED TOGETHER, THE COVER PLATE SHALL BE OF THE GANGED STYLE FOR THE NUMBER OF DEVICES USED.
7. THE COLOR OF ALL ISOLATED GROUND RECEPTACLES AND COVER PLATES SHALL MATCH THOSE OF OTHER DEVICES ON THE JOB.
8. BOXES LOCATED ON OPPOSITE SIDES OF NON-FIRE RATED WALLS SHALL BE OFFSET A MINIMUM OF 6" HORIZONTALLY. BOXES ON OPPOSITE SIDES OF FIRE RATED WALL SHALL BE OFFSET A MINIMUM OF 24" HORIZONTALLY. "THRU-THE-WALL" BOXES SHALL NOT BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
9. VERIFY TOTAL CONNECTED LOADS AND HORSE POWER WITH OTHER TRADE'S CONTRACTORS PRIOR TO WIRING OF ALL EQUIPMENT. MAKE ANY CHANGES TO OVERCURRENT DEVICES OR FEEDER SIZE PER LOCAL ELECTRICAL CODE.
10. ALL TEMPERATURE CONTROL WIRING AND CONDUIT SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR. CONTRACTOR SHALL ADJUST CONDUIT ROUTING TO NOT INTERFERE WITH ANY HANGING SIGNS OR BOARDS. COORDINATE ALL CONDUIT LOCATIONS WITH THE FIXTURE PLAN ON SHEET F1 PRIOR TO ROUGH-IN TO ENSURE NO ENCRoACHMENT OF CONDUIT OR DEVICE WITH SIGNS OR BOARDS.
11. FIELD VERIFY LOCATION OF AREA SMOKE DETECTORS AND HEAT DETECTORS. DO NOT LOCATE WITHIN 36" OF AN HVAC DIFFUSER (SUPPLY OR RETURN), IN A DIRECT AIR FLOW OR WITHIN 36" OF A SPRINKLER HEAD. COORDINATE LOCATIONS WITH LIGHT FIXTURES.
12. VERIFY ALL FURNITURE, MODULAR FURNITURE AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL ELECTRICAL INSTALLATION CONTRACTOR SHALL ADJUST RECEPTACLES, OUTLETS OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
13. ONLY IN SERVICE BAY AREA AND INVENTORY AREA CONDUIT SHOULD BE ROUTED 1'-1/2" AWAY OR AS TIGHT AS POSSIBLE TO THE UNDERSIDE OF THE STRUCTURE. ROUTE CONDUIT AND UNISTRUT TIGHT TO BOTTOM OF STRUCTURE, IN A CLEAN AND ORDERLY MANNER. ABSOLUTELY NO CONDUITS ARE TO BE ROUTED UNDER OR IN THE BUILDING SLAB.
14. ALL ELECTRICAL WORK AND MATERIALS SHALL COMPLY WITH LATEST NEC AND ALL LOCAL CODES AND ORDINANCES. IN CASE OF CONFLICT AMONG REQUIREMENTS THE MORE RESTRICTING SHALL APPLY. ALL WORKING CLEARANCES AROUND THE PANELS SHALL CONFORM TO NEC ARTICLE 110 WHICH INCLUDES ALL TRADES. CONTRACTOR MAY USE PULL BOXES, WIREWAYS ETC. AS NECESSARY TO MANAGE CONDUIT ROUTING CLEAR OF THE WORK SPACE AS DEFINED BY THE NEC. THIS SHALL BE CONSIDERED "MEANS AND METHODS"



1
E1 TELEPHONE GROUNDING DIAGRAM
SCALE: N.T.S.

NOTES:

1. AT ALL GROUND BARS INCLUDE NONMETALLIC LABEL: "WARNING IF THIS CONNECTOR OR CABLE IS LOOSE OR MUST BE REMOVED PLEASE CALL THE BUILDING MANAGER."
2. RUN CONDUCTOR FROM GROUND TO TELEPHONE TERMINAL CABINET.
3. ALL CONNECTORS TO GROUND BARS SHALL BE 2 HOLE COMPRESSION TYPE.
4. GROUNDING BARS SHALL BE ELECTROLYTIC COPPER, MOUNTED ON FIBERGLASS INSULATORS, AND NEMA BOLT HOLE SIZING AND SPACING.
5. ALL BONDING CONDUCTORS SHALL BE CONTINUOUS AND ROUTED IN THE SHORTEST POSSIBLE STRAIGHT LINE PATH.
6. ROUTE GROUNDING WIRE FROM EACH "TMGB" AND "TTC" TO NEAREST VERTICAL STRUCTURAL STEEL MEMBER AND CADWELD.
7. ROUTE CONDUCTOR FROM "TMGB" AND "TTC" TO RELAY RACK IN IT CLOSET AND CADWELD TO RACK.
8. ALL TELEPHONE CLOSETS WITH MULTIPLE WIRE MANAGEMENT RACKS WILL HAVE BONDING JUMPER INSTALLED.

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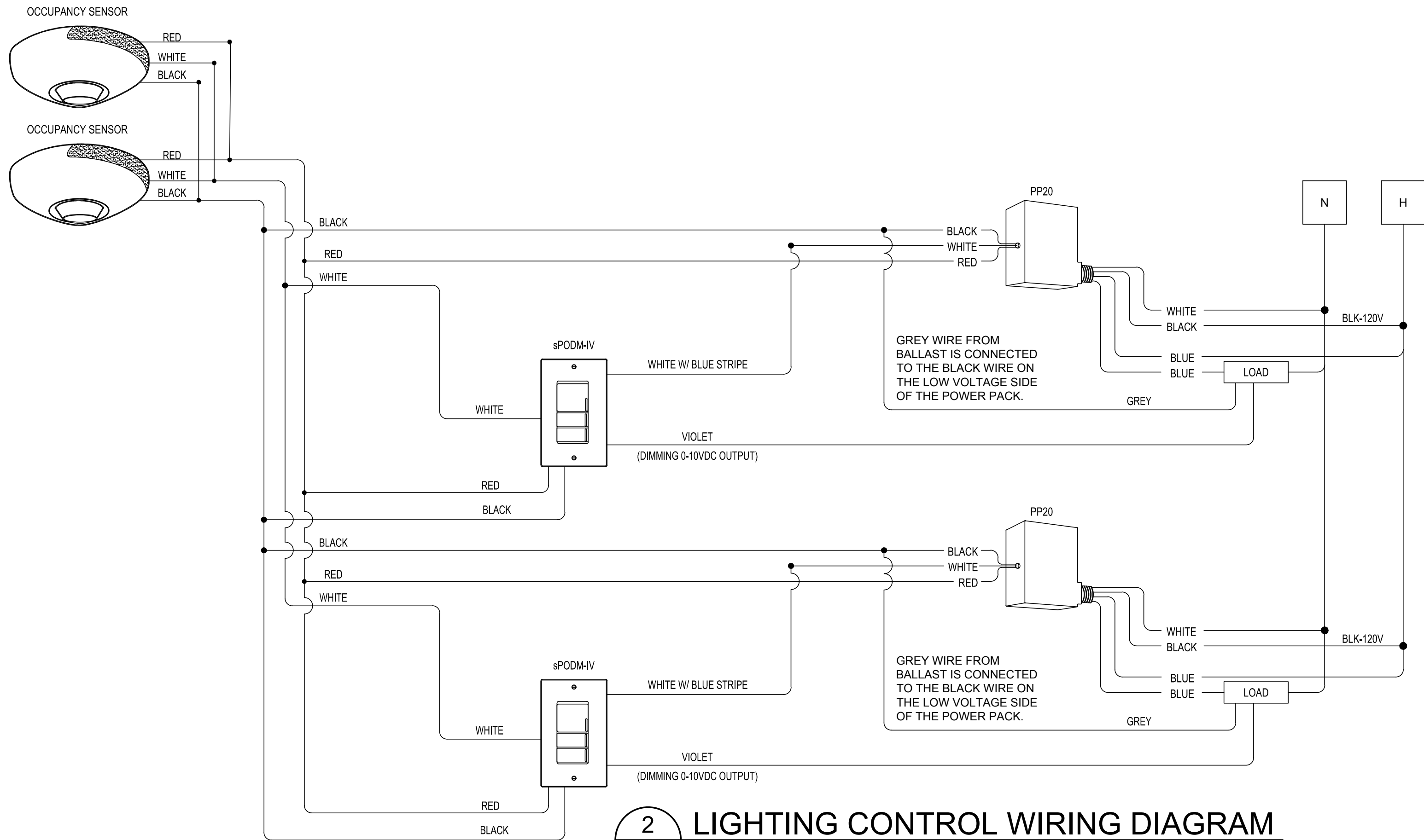
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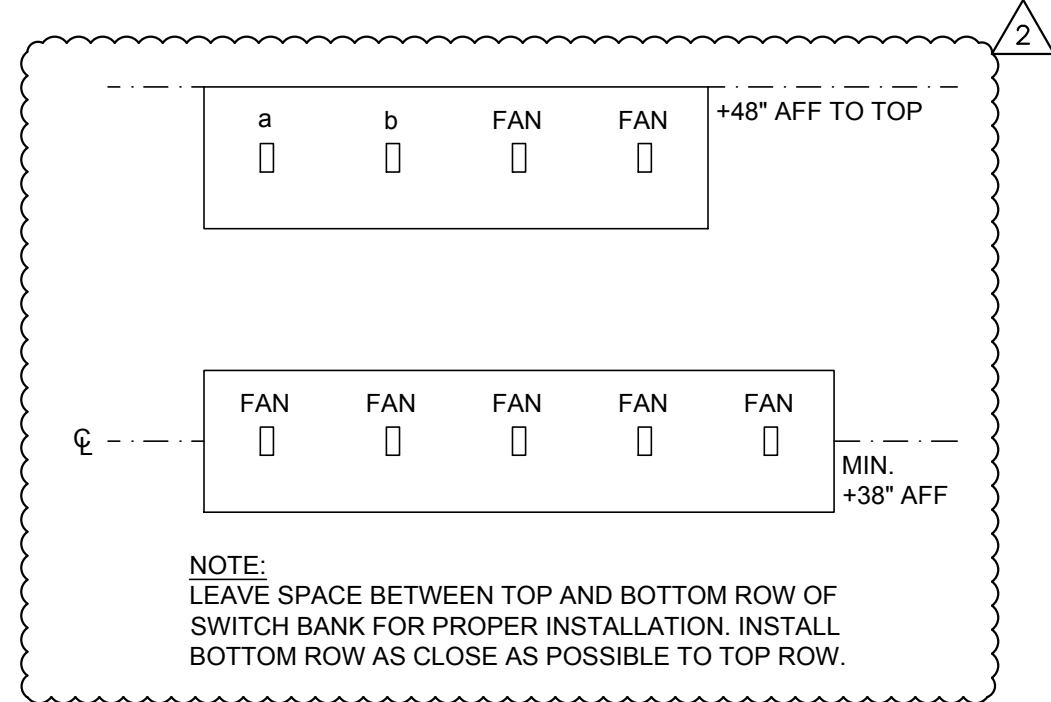
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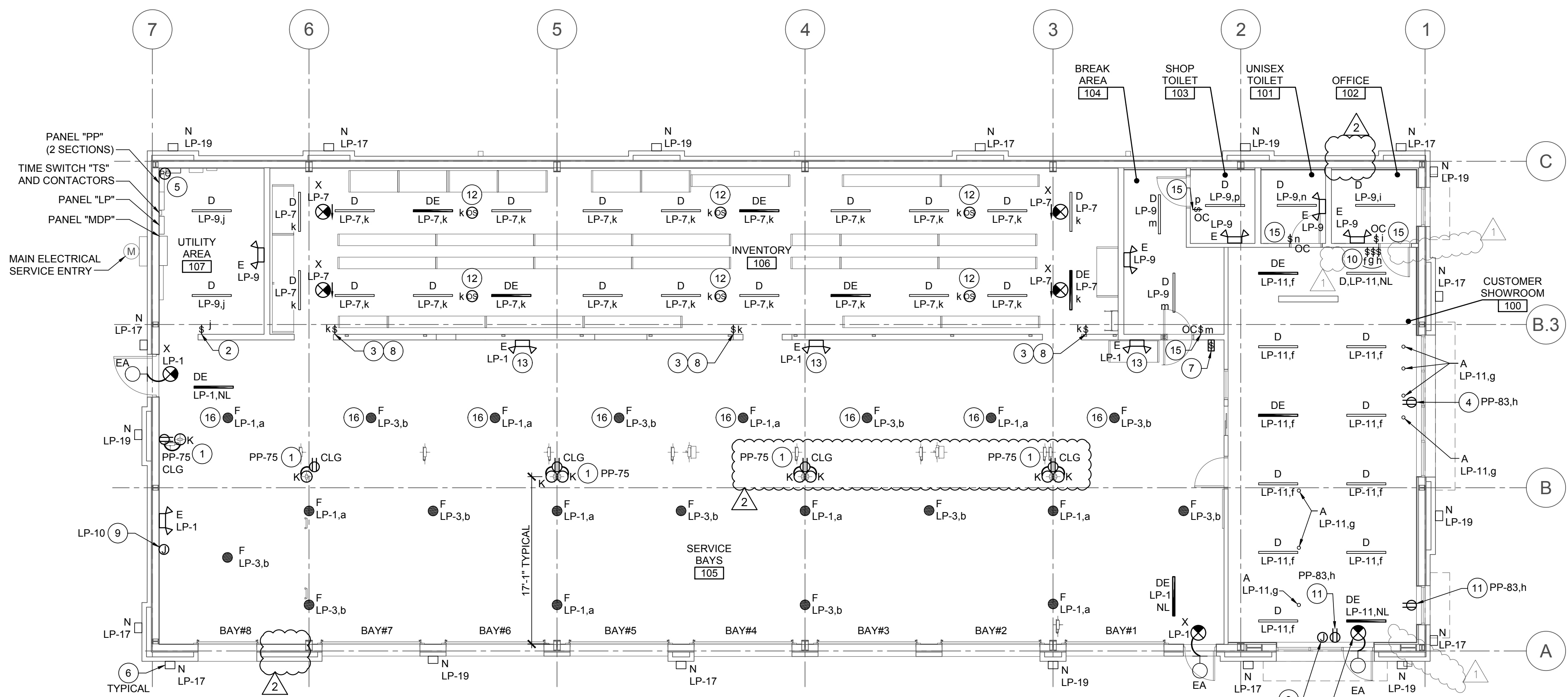
ISSUE BLOCK	
	04/16/20 ADD #1
	06/30/20 CB #1
PROPERTY NO.:	160085
6 DIGIT NO.:	906983
4 DIGIT NO.:	78C9
AOR PROJECT NUMBER:	1955B71
TO PERMIT:	DATE: 03/26/2020
TO BID:	DATE: ##-##-##
SHEET TITLE: ELECTRICAL SYMBOLS, NOTES, AND SCHEDULES	
SHEET NUMBER: E1	



2
E2 LIGHTING CONTROL WIRING DIAGRAM
SCALE: N.T.S.



3
E2 SWITCH BANK ELEVATION
SCALE: N.T.S.



1
E2 LIGHTING PLAN
SCALE: 1/8" = 1'-0"

LIGHTING PLAN GENERAL NOTES

- ALL BATTERY EMERGENCY LIGHTING UNITS SHALL BE WIRED AHEAD OF THE SWITCH(ES) WHICH CONTROLS THE LIGHTING WHERE UNIT IS LOCATED. THE UNIT SHALL OPERATE WHEN THE NORMAL LIGHTING FAILS.
- SEE "ARCHITECTURAL REFLECTED CEILING PLAN" FOR ALL LIGHTING FIXTURES LOCATION DIMENSIONS.
- SEE "FIXTURE PLAN" SHEET F1 FOR ALL EQUIPMENT LOCATIONS AND QUANTITIES.
- ALL WIRING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE NEC AND LOCAL CODE AUTHORITIES HAVING JURISDICTION. SEE "GENERAL ELECTRICAL NOTES" ON SHEET E1.
- FOR MOUNTING HEIGHTS OF ALL LIGHT FIXTURE TYPES SEE "LIGHT FIXTURE SCHEDULE" ON SHEET E1, UNLESS NOTED OTHERWISE.

LIGHTING PLAN KEYNOTES

- CORD REEL LIGHT (FIXTURE TYPE "K"), MOUNTED TO ROOF STRUCTURE AT LOCATION SHOWN. COORDINATE INSTALLATION TO AVOID CONFLICT WITH OTHER EQUIPMENT. SEE "CORD REEL LIGHT DETAIL" ON SHEET E4 FOR ADDITIONAL INFORMATION AND COORDINATE WITH SHEET F1 FOR EXACT LOCATION.
- PROVIDE TOGGLE SWITCH FOR MANUAL CONTROL OF LIGHTING FIXTURES AS INDICATED. MANUAL CONTROL IS FOR OCCUPANT SAFETY NEAR ELECTRICAL GEAR.
- PROVIDE POWERPACK(S) (SENSOR SWITCH #PP20) AS REQUIRED FOR LIGHTING CONTROLS IN THIS AREA. REFER TO DETAIL 2 (THIS SHEET) FOR ADDITIONAL INFORMATION.
- PROVIDE RECEPTACLE 6" ABOVE SHOW WINDOW TO MEET NEC SHOW WINDOW REQUIREMENTS.
- PROVIDE PHOTOCELLS. SEE "CONTACTOR DIAGRAM" AND "CONTACTOR NOTES" ON SHEET E5 FOR ADDITIONAL INFORMATION. PHOTOCELL TO FACE NORTH. PROVIDE A WEATHERTIGHT CONDUIT BODY ON INSIDE FACE OF BUILDING PARAPET WITH 1" RIGID CONDUIT TO 36" ABOVE ROOF LINE FOR PHOTOCELL. WHERE PARAPET DOES NOT EXIST, PROVIDE FREESTANDING RIGID CONDUIT WITH WEATHERPROOF ROOF PENETRATION. VERIFY LOCATION AND REQUIREMENTS IN FIELD.
- ROUTE DESIGNATED CIRCUITS VIA TIME SWITCH "TS" AND CONTACTORS, AS NOTED IN THE "CONTACTOR DIAGRAM" AND "CONTACTOR NOTES" ON SHEET E5.
- PROVIDE ONE (1) FOUR-GANG BOX AND (1) FIVE-GANG BOX WITH TWO (2) TOGGLE SWITCHES TO CONTROL SWITCH-LEGS (a,b) AND SEVEN (7) TOGGLE SWITCHES FOR THE CONTROL OF SHOP FANS. LABEL ALL SWITCHES TO CORRESPOND WITH THE CONTROLLED SWITCH-LEG OR FAN. PROVIDE MATCHING COVER PLATE. VERIFY SWITCHING ARRANGEMENT IN FIELD. ROUTE CONDUIT UP INSIDE FACE OF WALL FOR RECESSED BOX. SEE SWITCH BANK ELEVATION (THIS SHEET) FOR MORE INFO.
- PROVIDE SWITCH (SENSOR SWITCH SP0DM-IV) FOR MANUAL CONTROL OF LIGHTING FIXTURES AS INDICATED.
- PROVIDE JUNCTION BOX ON BACK SIDE OF PARAPET FOR BUILDING MOUNTED SIGNAGE. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. DISCONNECT IS PROVIDED BY SIGNAGE VENDOR. ROUTE DESIGNATED CIRCUITS VIA TIME SWITCH "TS" AND CONTACTORS, AS NOTED IN THE "CONTACTOR DIAGRAM" AND "CONTACTOR NOTES" ON SHEET E5.
- PROVIDE THREE (3) RECESSED SINGLE-GANG BOXES WITH (3) TOGGLE SWITCHES FOR (f,g,h); ALL WITH MATCHING COVER PLATES FOR SWITCHES LOCATED IN CUSTOMER SHOWROOM AREA. VERIFY SWITCHING ARRANGEMENT IN FIELD. ROUTE CONDUIT UP INSIDE FACE OF WALL.
- INSTALL RECEPTACLE 6" ABOVE SHOW WINDOW (TO MEET NEC SHOW WINDOW REQUIREMENTS) FOR OPEN SIGN. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN. SEE SHEET F2 FOR ADDITIONAL INFORMATION. SECURE THE SMALL LOW VOLTAGE TRANSFORMER WHICH PLUGS INTO THE RECEPTACLE SO THAT THE TRANSFORMER CAN NOT COME OUT OF THE PLUG VIA GRAVITY.
- PROVIDE CEILING MOUNTED HIGH BAY AISLE OCCUPANCY SENSOR (SENSOR SWITCH #M24-6) TO CONTROL LIGHTING IN INVENTORY AREA. PENDANT MOUNT ON CONDUIT BETWEEN LIGHT FIXTURES AT STRUCTURE.
- FIXTURE TO BE PENDANT MOUNTED FROM CONDUIT AT STRUCTURE. SEE LIGHT FIXTURE SCHEDULE FOR MORE INFORMATION.
- NOT USED
- PROVIDE OCCUPANCY SENSOR WITH SWITCH (SENSOR SWITCH #WSX-PDT). INSTALL ON WALL 46" AFF (TO TOP) IN ALL LOCATIONS. COORDINATE FINAL LOCATION WITH BSRO. ROOM LAYOUT MUST BE TAKEN INTO ACCOUNT BEFORE INSTALLATION.
- THESE LIGHT FIXTURES ONLY TO BE MOUNTED AT 14'-6" AFF TO MAINTAIN CLEARANCE FROM RADIANT HEATER OUTPUT.

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SITE OF MISSOURI
RANDALL A. NELSON
NUMBER
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ISSUE BLOCK
04/16/20 ADD #1
06/30/20 CB #1

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6 DIGIT NO.: 906983
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AOR PROJECT NUMBER: 1955B71
TO PERMIT: DATE: 03/26/2020
TO BID: DATE: ##-##-##

SHEET TITLE:
LIGHTING PLAN
SHEET NUMBER:
E2

# ELECTRICAL SHOP EQUIPMENT SCHEDULE						
ITEM #	QUANTITY	DESCRIPTION	VOLTS	PHASE	POLE	AMPS
9	1	AIR DRYER CHAMPION #CRH35	120	1	1	20
10	1	BRAKE SHOP #BL505-AB (INSTALLED BY HUNTER)	120	1	1	20
13A	1	ELECTRONIC WHEEL BALANCER #RFE13 (INSTALLED BY HUNTER)	208	1	2	20
13B	1	ELECTRONIC WHEEL BALANCER #SWT33 (INSTALLED BY HUNTER)	208	1	2	20
17	2	CORD REEL POWER DROP	120	1	1	20
18B	1	TIRE CHANGER #TCR1S (INSTALLED BY HUNTER)	208	1	2	30
28	2	5 HP AIR COMPRESSOR CHAMPION #VRS-8	208	3	3	30
NOTES: VERIFY ALL ELECTRICAL REQUIREMENTS AND NEMA CONFIGURATIONS TO ACTUAL EQUIPMENT SUPPLIED PRIOR TO ROUGH-IN.						

POWER PLAN GENERAL NOTES

- ALL DEVICES LOCATED IN SERVICE AREA SHALL BE MOUNTED AT 48" AFF TO TOP OF BOX, UNLESS NOTED OTHERWISE.
- ALL DEVICES LOCATED IN THE FOLLOWING ROOMS: CUSTOMER SHOW ROOM, OFFICE, BREAK AREA, EMPLOYEE TOILET, AND UNISEX TOILET, SHALL BE MOUNTED AT 24" AFF TO CENTER, UNLESS NOTED OTHERWISE.
- ALL WIRING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE NEC AND LOCAL CODE AUTHORITIES HAVING JURISDICTION FOR ROUTING OF ALL CONDUITS, SEE "GENERAL ELECTRICAL NOTES" ON SHEET E1.
- WIRE ALL HVAC CONTROL DEVICES, AND COORDINATE WITH OTHERS, SEE "GENERAL ELECTRICAL NOTES" ON SHEET E1 FOR ADDITIONAL INFORMATION.

DATA REQUIREMENTS

THERE ARE A TOTAL OF EIGHT (8) LINES THAT SERVICE EACH STORE FOR PHONE AND DATA. INTERNET SERVICE VIA LOCAL CABLE SERVICE WILL BE INSTALLED POST OPENING. ALL LINES TERMINATE AT "D-MARC" BOARD IN UTILITY AREA.

PROVIDE ALL POWER AND LOW VOLTAGE CONDUITS, PER CODE, AND THIS INCLUDES OPTIONAL STATE INSPECTIONS EQUIPMENT.

CLEAR ACCESS WILL BE MAINTAINED IN ORDER FOR BSRO "IT" DEPARTMENT TO INSTALL ALL NECESSARY WIRING. BSRO "IT" DEPARTMENT WILL INSTALL ALL WIRING AND EQUIPMENT UNLESS OTHERWISE NOTED.

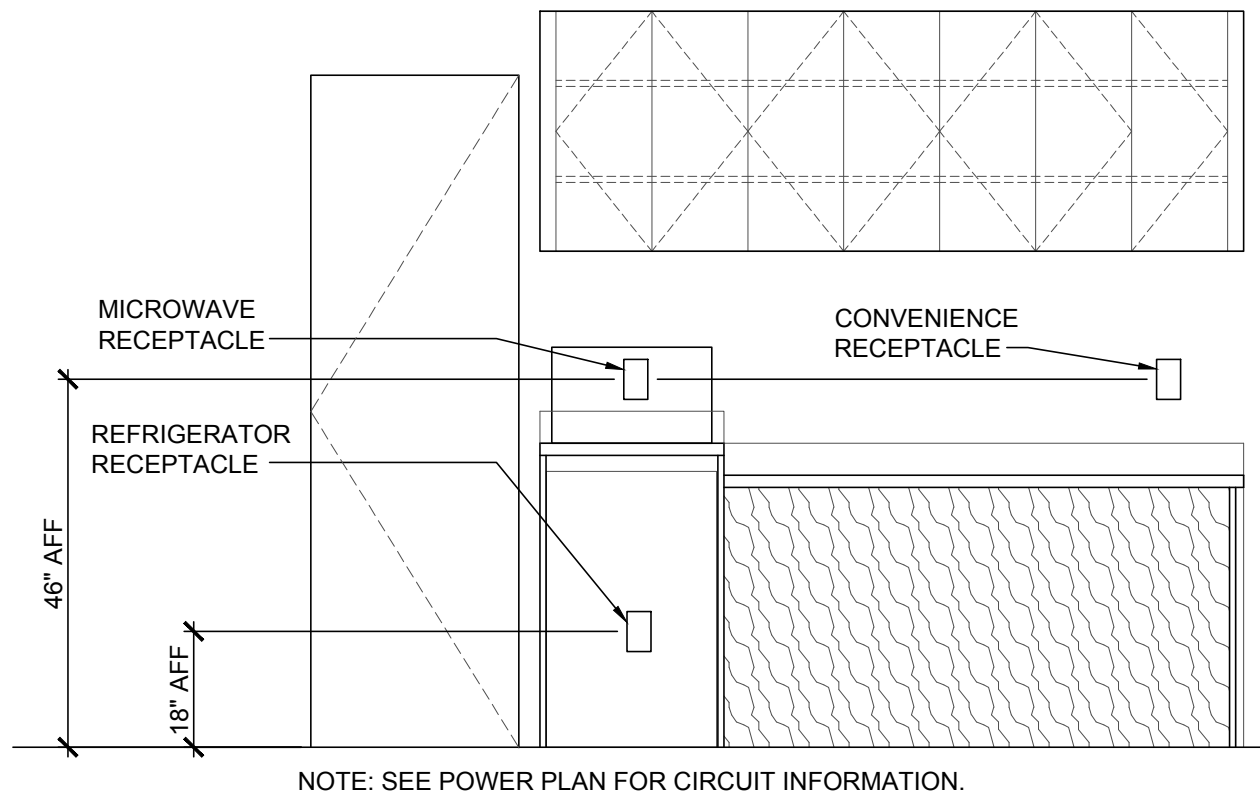
"MVS" STATION REQUIREMENTS IN SERVICE AREA:
INSTALL ONE (1) QUAD RECEPTACLE IN THE MIDDLE OF THE CABINET. THE POWER SHOULD TERMINATE IN A JUNCTION BOX MOUNTED ON THE WALL ADJACENT TO THE STATION. ASSOCIATED DATA BOXES SHOULD TERMINATE IN A JUNCTION BOX ADJACENT TO STATION. CONDUIT ASSOCIATED WITH DATA BOX SHALL BE EXTENDED TO SERVER CABINET. PROVIDE PULL STRINGS IN CONDUIT. COORDINATE WITH OTHER SERVER CONDUITS.

"POD" REQUIREMENTS IN CUSTOMER SHOWROOM:
PROVIDE ONE (1) QUAD RECEPTACLE WHICH SHOULD TERMINATE IN A JUNCTION BOX MOUNTED ON THE BACK SIDE OF THE PANEL, BELOW THE LOWEST ADJUSTABLE SHELF AND KNOCK OUT PANEL.

SERVER CABINET POWER REQUIREMENTS:
PROVIDE ONE (1) QUAD RECEPTACLE ON RIGHT SIDE OF SERVER CABINET MOUNTED AT 11'-0" AFF AND CIRCUIT AS SHOWN. REFER TO SHEET A7 FOR ADDITIONAL INFORMATION.

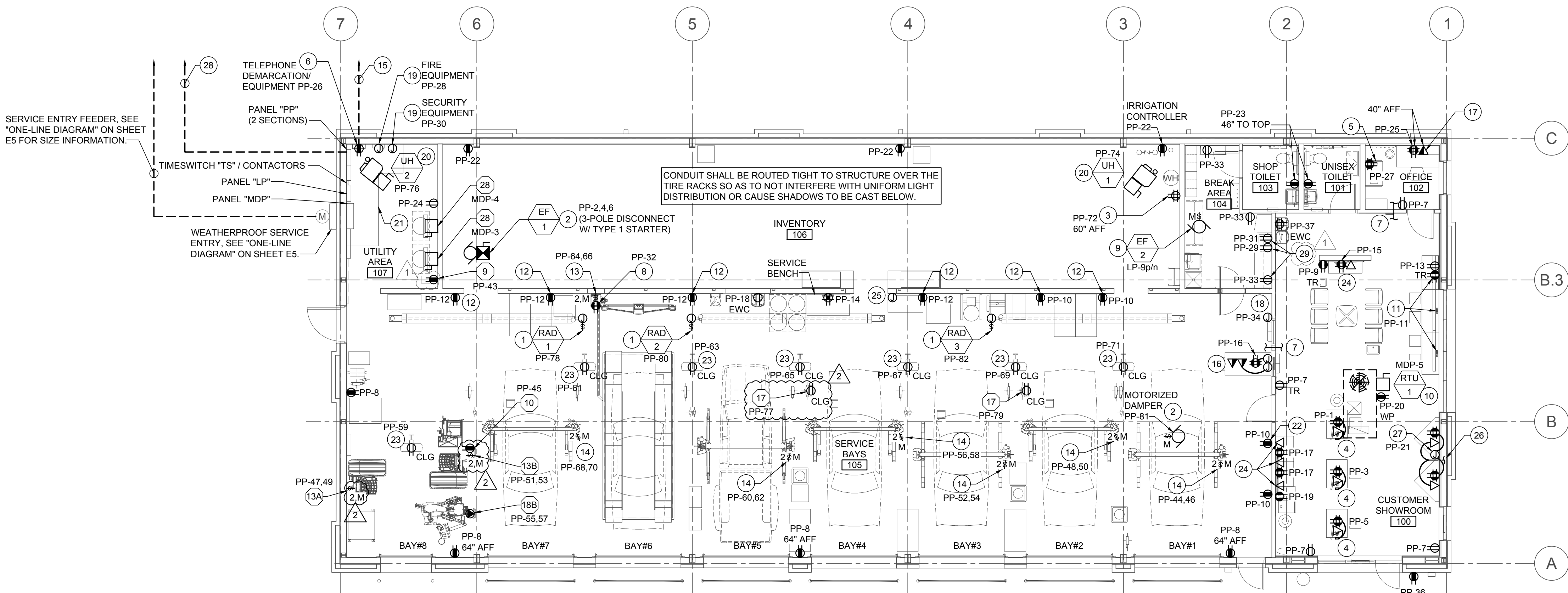
SERVER CABINET LEFT SIDE CONDUIT:
PROVIDE ONE (1) 2" CONDUIT FROM 13'-0" AFF ABOVE THE LEFT SIDE OF SERVER CABINET TO INVENTORY 10'-0" AFF ABOVE TELEPHONE EQUIPMENT RECEPTACLE.

UTILITY ROOM AND EXTERIOR SITE CONDUIT:
PROVIDE SUFFICIENT LENGTH OF 2" CONDUIT AND EXTEND THE ONE (1) 2" CONDUIT FROM THE EXTERIOR TO THE "D-MARC" LOCATION ON THE UTILITY ROOM BOARD. SEE NOTE 15.



2 BREAK COUNTER ELEVATION

SCALE: N.T.S.



1 POWER PLAN

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

POWER PLAN KEYNOTES

- JUNCTION BOX WITH TOGGLE SWITCH DISCONNECT MOUNTED AT CEILING FOR GAS FIRED RADIANT HEAT CONTROLS. PROVIDE ALL REQUIRED DEVICES AND EQUIPMENT TO MAKE A COMPLETE WORKING SYSTEM. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
- INTERLOCK MOTORIZED DAMPER ON "RH-1" AND "EF-1" SUCH THAT WHEN "EF-1" IS IN RUN MODE, DAMPER IS OPEN. DAMPER AND "EF-1" TO BE CONTROLLED BY TOXALERT SYSTEM.
- PROVIDE DOUBLE DUPLEX RECEPTACLE FOR "RP-1" AND "WH-1". COORDINATE LOCATION OF "WH-1" AND "RP-1" WITH PLUMBING CONTRACTOR.
- TELE-POWER POLE. EXTEND POLE FROM SALES POD AND OR DESKS AS SHOWN UP TO STRUCTURE. SEE DETAIL ON SHEET E4 FOR ADDITIONAL INFORMATION. FLEX FROM POLE AND MOUNT AND WIRE DEVICES IN DESKS AS SHOWN. VERIFY REQUIREMENTS WITH MILLWORK VENDOR. COORDINATE EXACT POWER POLE DROP LOCATION PRIOR TO ROUGH-IN.
- REFER TO "DATA REQUIREMENTS" (THIS SHEET) FOR POWER AND CONDUIT INFORMATION IN SERVER CABINET.
- PLYWOOD BACKBOARD. SEE "TELEPHONE GROUNDING DIAGRAM" ON SHEET E1.
- PROVIDE 8" LONG, 2" DIAMETER PVC CONDUIT THRU WALL AS SHOWN. MOUNT CONDUIT AT SAME HEIGHT AS BOTTOM OF STRUCTURE. RUN CONDUIT AS CLOSE AS POSSIBLE TO STRUCTURE. PROVIDE GROMMET ON BOTH ENDS OF PVC. REFER TO ARCHITECTURAL SHEETS FOR ADDITIONAL INFORMATION.
- DEDICATED LINE ISOLATED GROUND RECEPTACLE MOUNTED AT 48" ON FULL-HEIGHT WALL FOR WHEEL ALIGNMENT COMPUTER. COORDINATE EXACT LOCATION AND CONNECTION REQUIRED WITH OWNER. REFER TO STRUCTURAL DRAWINGS FOR UNDER SLAB CONDUIT LOCATION FROM THE ALIGNMENT PIT TO THE ALIGNMENT CONTROLLER.
- RESTROOM EXHAUST FAN. PROVIDE ALL ACCESSORIES AS REQUIRED TO CONTROL EXHAUST FAN FROM OCCUPANCY SENSORS IN RESTROOMS.
- SEE "ONE-LINE DIAGRAM" ON SHEET E5 FOR ADDITIONAL INFORMATION. PROVIDE POWER CONNECTION TO FACTORY MOUNTED DISCONNECT AND WP/GFCI RECEPTACLE AS SHOWN ON PLAN.
- ROUTE CORDS FOR POWER STRIPS TO RECEPTACLE SHOWN. CONCEAL ALL CORDS IN NEAT AND CLEAN MANNER.
- MOUNT RECEPTACLE ON PLYWOOD AT 48" AFF FOR TEMPORARY POWER FOR SMALL HAND TOOL BATTERY RECHARGING.
- PROVIDE 30A, 2-POLE, NON-FUSED, LOCKABLE (WITH LOCK PROVIDED) DISCONNECT SWITCH (SIEMENS #MMSKG1) FOR ALIGNMENT LIFT EQUIPMENT CONTROL UNIT AT 48" AFF, UNLESS NOT ALLOWED BY AHJ. INSTALL DISCONNECT ON WALL BESIDE ALIGNMENT EQUIPMENT CONSOLE CABINET. PROVIDE ALL POWER AND SIGNAL WIRING AND CIRCUITING. CIRCUIT AS SHOWN. VERIFY ALL REQUIREMENTS WITH VENDOR. ROUTE CONDUIT FROM STRUCTURE TO DISCONNECT DOWN THE SIDE OF THE CABINET. CABINET MUST BE IN PLACE PRIOR TO CONDUIT DROP TO ENSURE CONDUIT ROUTING DOES NOT INTERFERE WITH PROPER EQUIPMENT OPERATION.
- PROVIDE 30A, 2-POLE, NON-FUSED, LOCKABLE (WITH LOCK PROVIDED) DISCONNECT SWITCH (SIEMENS #MMSKG1) FOR ROTARY LIFT EQUIPMENT CONTROL UNIT, UNLESS NOT ALLOWED BY AHJ. INSTALL DISCONNECT BELOW DECAL ON LIFT POST SO THAT CONDUIT AND DO NOT OBSCURE ANY SAFETY DECALS. DO NOT USE "THROUGH BOLTS" AS THIS TYPE OF BOLT MAY INTERFERE WITH EQUIPMENT OPERATION. ANCHORS FOR DISCONNECT SHALL BE IN THE CENTER OF THE LIFT POST. PROVIDE ALL POWER, SIGNAL, AND LIFT SAFETY SWITCH WIRING AND CIRCUITING. CIRCUIT AS SHOWN. VERIFY ALL REQUIREMENTS WITH VENDOR. ROUTE CONDUIT FROM STRUCTURE TO DISCONNECT DOWN THE SIDE OF THE EQUIPMENT POST. LIFT EQUIPMENT MUST BE IN PLACE PRIOR TO CONDUIT DROP TO ENSURE CONDUIT ROUTING DOES NOT INTERFERE WITH PROPER EQUIPMENT OPERATION.
- PROVIDE CONDUIT WITH PULL WIRE FOR TELEPHONE SERVICE. PROVIDE CONDUIT SEAL AT 18" AFF. COORDINATE ROUTING AND TERMINATION POINTS WITH SITE UTILITIES. VERIFY EXACT REQUIREMENTS WITH LOCAL PHONE COMPANY. REFER TO CIVIL PLANS FOR MORE INFORMATION.
- REFER TO "DATA REQUIREMENTS" (THIS SHEET) FOR POWER AND CONDUIT INFORMATION IN "MVS" STATION.
- CONDUIT ASSOCIATED WITH DATA BOX SHALL BE EXTENDED TO SERVER CABINET. PROVIDE PULL STRINGS IN CONDUIT.
- PROVIDE 120V POWER CONNECTION FOR TOXALERT SYSTEM CONTROL PANEL.
- PROVIDE JUNCTION BOX FOR FIRE ALARM EQUIPMENT AND OPTIONAL SECURITY CONTROL PANEL. VERIFY EXACT ELECTRICAL CONNECTION OF EQUIPMENT IN FIELD AND PROVIDE RECEPTACLE AS REQUIRED. COORDINATE EXACT REQUIREMENTS WITH OWNER.
- PROVIDE POWER TO FACTORY MOUNTED DISCONNECT SWITCH. COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR.
- MEET ALL ELECTRICAL EQUIPMENT CLEARANCES BOTH HORIZONTALLY AND VERTICALLY IN THIS SPACE.
- PROVIDE RECEPTACLE FOR "NO LOSS DAYS" SIGN AT 11'-0" AFF. VERIFY EXACT LOCATION WITH CONSTRUCTION MANAGER PRIOR TO ROUGH-IN.
- PROVIDE WORKSTATION FAN (ULINE #H-4082). RECEPTACLE FOR WORKSTATION FAN IS SHOWN. CIRCUIT WILL HAVE GFCI PROTECTION AT BREAKER. SEE SHEET E2 FOR CONTROLS AND SHEET E4 FOR MOUNTING INFORMATION.
- CONDUIT ASSOCIATED WITH DATA BOX SHALL BE EXTENDED TO SERVER CABINET. PROVIDE PULL STRINGS IN CONDUIT. REFER TO DETAIL ON SHEET E4 FOR INFORMATION ON MOUNTING LOCATION OF DATA BOX AND POWER BEHIND DEVICES IN THIS AREA.
- PROVIDE JUNCTION BOX FOR TOXALERT INSTALL SENSOR AND PROVIDE WIRING BETWEEN TOXALERT PANEL AND SENSOR. COORDINATE LOCATIONS WITH MECHANICAL CONTRACTOR.
- PROVIDE JUNCTION BOX FOR DATA CONNECTION AT MRT DISPLAY. MOUNT DATA BOX INSIDE MRT SECTION SO THAT IT IS ACCESSIBLE THROUGH THE MONITOR OPENINGS. EXTEND DATA CABLEING FROM JUNCTION BOX IN WALL TO EACH DATA BOX MOUNTED INSIDE MRT CABINET. ROUTE DATA CONDUIT FROM MRT CABINET BACK TO SERVER CABINET LOCATED IN OFFICE.
- PROVIDE JUNCTION BOX FOR POWER CONNECTION AT MRT DISPLAY. MOUNT RECEPTACLE INSIDE MRT SECTION SO THAT IT IS ACCESSIBLE THROUGH THE MONITOR OPENINGS. EXTEND MC CABLEING FROM J-BOX IN WALL TO EACH RECEPTACLE MOUNTED INSIDE MRT CABINET. COORDINATE EXACT CONNECTION MILLWORK PRIOR TO ROUGH IN.
- PROVIDE MINIMUM 1" CONDUIT WITH PULL WIRE BACK TO PANEL "PP" FOR CONNECTIONS TO EACH OF (2) EXTERIOR HOT BOXES. CONNECT TO SPARE IN PANELBOARD. VERIFY LOCATION WITH ARCHITECT.
- REFER TO "BREAK COUNTER ELEVATION" (THIS SHEET) FOR MORE INFORMATION.

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STATE OF MISSOURI
RANDALL A. NELSON
NUMBER
PE-2007003990
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ISSUE BLOCK
04/16/20 ADD #1
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PROPERTY NO.: 160085
6 DIGIT NO.: 906983
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AOR PROJECT NUMBER: 1955B71
TO PERMIT: DATE: 03/26/2020
TO BID: DATE: ##-##-##

SHEET TITLE:
POWER PLAN
SHEET NUMBER:
E3

COMMERCIAL LOAD SUMMARY									
BUILDING AREA:		6,537 SQ. FT.		VOLTAGE:		208Y/120V, 3PH, 4W			
LOAD DESCRIPTION	CONNECTED LOAD (VA)		DEMAND FACTOR						DEMAND LOAD (VA)
LIGHTING	INTERIOR LIGHTING	4,775	x	125%	=				0
	EXTERIOR LIGHTING	768	x	125%	=				960
	SIGNAGE	3,600	x	125%	=				4,500
	MINIMUM GENERAL LIGHTING PER NEC-220 x 125%								19,113
MINIMUM TRACK LIGHTING/SHOW WINDOW PER NEC-220 x 125%									7,500
POWER & HVAC									
EXISTING	0	x	100%	=					0
RECEPTACLES	13,260	x	100%/50%	=					11,630
MISCELLANEOUS EQUIPMENT	33,120	x	100%	=					33,120
REFRIGERATION EQUIPMENT	0	x	100%	=					0
KITCHEN	0	x	100%	=					0
HVAC - SUMMER	7,926	x	100%	=					7,926
HVAC - WINTER	0	x	100%	=					0
SUPP. ELECTRIC HEAT	400	x	100%	=					400
MOTORS	32,656	x	100%	=					32,656
LARGEST MOTOR	7,061	x	25%	=					1,765
SUB-TOTAL (VA)		103,766							119,771
SUB-TOTAL (AMPS)		288							332
									SERVICE SIZE (AMPS)
									400
									SPARE CAPACITY (AMPS)
									68

PANELBOARD AFC VALUES ARE BASED ON AN ASSUMED TRANSFORMER AFC VALUE OF 50,000A AND A FEEDER LENGTH OF 90 FT. CONTRACTOR TO FIELD VERIFY ALL ASSUMPTIONS LISTED AND ALERT ENGINEER IF ACTUAL INFORMATION DIFFERS.

SERVICE DISCONNECT SIZED BASED ON LOAD SUMMARY PER THE NEC.

PANELBOARD MDP																					
BUS AMPS: 400A				LOCATION: UTILITY AREA				GROUND BUS: YES													
MAIN SIZE / TYPE: MLO				NEMA RATING: NEMA 1				ISOL. GROUND BUS: YES													
VOLTS/PHASE: 208Y/120V, 3PH, 4W				AFC VALUE: 20,335A				FEED THRU LUGS: NO													
MOUNTING: SURFACE				AIC RATING: 22,000 A FULLY RATED				SECTIONS: 1													
CKT #	CIRCUIT DESCRIPTION	BREAKER		WIRE SIZE	LOAD (VA)	CONNECTED PER PHASE (VA)			LOAD (VA)	WIRE SIZE	BREAKER		CIRCUIT DESCRIPTION	CKT #							
		AMPS	P			A	B	C			P	AMPS									
1	PANELBOARD "PP"	OL	3	OL	23,087	26,939			3,852	OL	3	OL	PANELBOARD "LP"	2							
					22,319	26,015			3,696												
					20,989	24,080			3,091												
					1,825	3,651			1,825												
3	5HP AIR COMPRESSOR (HACR BREAKER)	OL	3	OL	1,825	3,651			1,825	OL	3	OL	5HP AIR COMPRESSOR (HACR BREAKER)	4							
					1,825	3,651			1,825												
					3,543	3,543			0												
					3,543	3,543			0												
5	RTU-1 (HACR BREAKER)	OL	3	OL	3,543	3,543			0				SPACE ONLY	6							
					3,543	3,543			0												
					PER PHASE SUB-TOTALS										34,132	33,208	31,273	LEGEND:			
					TOTAL CONNECTED PANELBOARD (VA)										96,613						
TOTAL CONNECTED PANELBOARD (AMPS)					274				GF - GROUND FAULT INTERRUPTER												
TOTAL PANELBOARD DEMAND (VA)					110,058				FA - FIRE ALARM / RED / LOCKING TAB												
TOTAL PANELBOARD DEMAND (AMPS)					305				EM - EMERGENCY LTG. / LOCKING TAB												
										ST - SHUNT TRIP											
										LCK - LOCKING TAB											
										IG - ISOLATED GROUND											
										OL - REFER TO ONE-LINE DIAGRAM											

PANELBOARD LP															
1		BUS AMPS:		100A		LOCATION:		UTILITY AREA		GROUND BUS:		YES			
		MAIN SIZE / TYPE:		MLO		NEMA RATING:		NEMA 1		ISOL. GROUND BUS:		NO			
		VOLTS/PHASE:		208Y/120V, 3PH, 4W		AFC VALUE:		19.077A		FEED THRU LUGS:		NO			
		MOUNTING:		SURFACE		AIC RATING:		22,000 A FULLY RATED		SECTIONS:		1			
CKT #	CIRCUIT DESCRIPTION	B	P	BREAKER AMPS	WIRE SIZE	LOAD	CONNECTED PER PHASE (VA)			LOAD (VA)	WIRE SIZE	P	BREAKER AMPS	CIRCUIT DESCRIPTION	CKT #
							A	B	C						
1	SERVICE AREA / EM LTG	20	1	12	1,488		2,488			1,000	12	1	20	TIME SWITCH AND CONTACTORS	2
3	SERVICE AREA LTG	20	1	12	1,562			1,562		0		1	20	SPARE	4
5	SPARE	20	1	12	0				1,200	1,200	12	1	20	BUILDING SIGN	6
7	INVENTORY / UTILITY RM / EM LTG	20	1	12	748		748			0		1	20	SPARE	8
9	OFFICE / TOILET / BREAK / EM LTG & EF-2	20	1	12	934			2,134		1,200	12	1	20	BUILDING SIGN	10
11	CUSTOMER SHOWROOM / EM LTG	20	1	12	539				539	0		1	20	SPARE	12
13	SITE LIGHTING	20	1	SL	430		430			0		1	20	SPARE	14
15	SPARE	20	1		0				0	0		1	20	SPARE	16
17	EXTERIOR LIGHTING	20	1	12	152				1,352	1,200	SL	1	20	MONUMENT SIGN	18
19	EXTERIOR LIGHTING	20	1	12	186		186			0		1	20	SPARE	20
21	SPARE	20	1	0	0					0		1	20	SPARE	22
23	SPARE	20	1	0	0				0	0		1	20	SPARE	24
25	SPARE	20	1		0		0			0		1	20	SPARE	26
27	SPARE	20	1	0	0			0		0		1	20	SPARE	28
29	SPARE	20	1		0				0	0		1	20	SPARE	30
PER PHASE SUB-TOTALS							3,852	3,696	3,091	LEGEND:					
TOTAL CONNECTED PANELBOARD (VA)							10,639			TS - VIA TIME SWITCH			ST - SHUNT TRIP		
TOTAL CONNECTED PANELBOARD (AMPS)							30			GF - GROUND FAULT INTERRUPTER			LCK - LOCKING TAB		
TOTAL PANELBOARD DEMAND (VA)							13,049			FA - FIRE ALARM / RED / LOCKING TAB			IG - ISOLATED GROUND		
TOTAL PANELBOARD DEMAND (AMPS)							36			EM - EMERGENCY LTG. / LOCKING TAB			OL - REFER TO ONE-LINE DIAGRAM		
										SL - REFER TO SITE LIGHTING PLAN ESL1					

PANELBOARD PP																	
BUS AMPS: 200A MAIN SIZE / TYPE: MLO VOLTS/PHASE: 208Y/120V, 3PH, 4W MOUNTING: SURFACE				LOCATION: NEMA RATING: AFC VALUE: AIC RATING: UTILITY AREA NEMA 1 17,264A 22,000 A FULLY RATED				GROUND BUS: YES ISOL. GROUND BUS: YES FEED THRU LUGS: YES SECTIONS: 2									
CKT #	CIRCUIT DESCRIPTION	BREAKER AMPS	P	WIRE SIZE	LOAD (VA)	CONNECTED PER PHASE (VA)			LOAD (VA)	WIRE SIZE	BREAKER P	AMPS	CIRCUIT DESCRIPTION	CKT #			
						A	B	C									
1	SALES POD IG RCPT	20	1	12	360	1,297			937				EF-1	2			
3	SALES POD IG RCPT	20	1	12	360	1,297			937		12	3		20			
5	SALES POD IG RCPT	20	1	12	360			1,297	937								
7	CUSTOMER SHOWROOM / OFFICE RCPTS	20	1	12	720	1,440			720	12	1	20		SERVICE AREA RCPTS	8		
9	CUSTOMER SHOWROOM IG RCPT	20	1	12	180		900		720	12	1	20		SERVICE AREA RCPTS	10		
11	CHARGING STATION	20	1	12	720			1,440	720	12	1	20	SERVICE AREA RCPTS	12			
13	COFFEE BAR	20	1	12	180	540			360	12	1	20	SERVICE AREA WORK BENCH	14			
15	BOSS TV	20	1	12	500			860	360	12	1	20	MVS DESK IG RCPT	16			
17	MENU BOARDS	20	1	12	1,500			2,300	800	12	1	20	SERVICE AREA EWC	18			
19	SHOWROOM PRINTER	20	1	12	500	680			180	12	1	20	ROOF CONVENIENCE RCPT	20			
21	MRT DISPLAY	20	1	12	500		1,040		540	12	1	20	INVENTORY RCPT	22			
23	TOILET RCPTS	20	1	12	360			540	180	12	1	20	UTILITY AREA RCPT	24			
25	OFFICE IG RCPTS	20	1	12	360	720			360	12	1	20	TELEPHONE SERVICE	26			
27	SERVER CABINET IG RCPT	20	1	12	360		720		360	12	1	20	FIRE SERVICE PANEL	28			
29	MICROWAVE	20	1	12	1,200			1,560	360	12	1	20	OPTIONAL SECURITY SYSTEM	30			
31	REFRIGERATOR	20	1	12	1,000	2,200			1,200	12	1	20	ALIGNMENT COMPUTER	32			
33	BREAK RCPTS	20	1	12	540		740		200	12	1	20	TOXALERT SYSTEM	34			
35	SIGNAGE CONVENIENCE RCPT	20	1	SL	180			360	180	12	1	20	EXTERIOR FRONT RCPT	36			
37	SHOWROOM EWC	20	1	12	500	500			0	1	20	SPARE	38				
39	HOT BOX ON SITE	20	1	SL	200		200		0	1	20	SPARE	40				
41	SPARE	20	1		0		0	0	0	1	20	SPARE	42				
SECTION 2																	
43	AIR DRYER #9	20	1	12	948	2,548			1,600	10	2	20	SMART LIFT (BAY #1)	44			
45	BRAKE SHOP #10	20	1	12	1,800		3,400		1,600					46			
47	ELECTRONIC WHEEL BALANCER	20	2	12	1,200			2,800	1,600	10	2	20	SMART LIFT (BAY #2)	48			
49	#13A	20	2	10	1,200	2,800			1,600					50			
51	BALANCER NON-ROAD FORCE	20	2	10	1,200		2,800		1,600	10	2	20	SMART LIFT (BAY #3)	52			
53	#13B				1,200			2,800	1,600					54			
55	RIM CLAMP TIRE CHANGER	30	2	8	2,760	4,360			1,600	10	2	20	SMART LIFT (BAY #4)	56			
57	#18B				2,760		4,360		1,600					58			
F	SHOP FAN #42	20	1	12	264			1,864	1,600	10	2	20	SMART LIFT (BAY #5)	60			
F	SHOP FAN #42	20	1	12	264	1,864			1,600					62			
F	SHOP FAN #42	20	1	12	264		2,964		2,700	8	2	30	ALIGNMENT LIFT (BAY #6)	64			
F	SHOP FAN #42	20	1	12	264			2,964	1,600	10	2	20	SMART LIFT (BAY #7)	66			
F	SHOP FAN #42	20	1	12	264	1,864			1,600					68			
F	SHOP FAN #42	20	1	12	264		1,864		1,600					70			
F	SHOP FAN #42	20	1	12	264			664	400	12	1	20	WATER HEATER / RECIRC. PUMP	72			
F	SPARE	20	1	12	264	414			414	12	1	15	UNIT HEATER UH-1	74			
F	OVERHEAD DROP LIGHTS #2	20	1	12	200		614		414	12	1	15	UNIT HEATER UH-2	76			
F	POWER CORD REEL #17	20	1	10	1,500			1,860	360	12	1	20	RADIANT HEATER RAD-1	78			
F	POWER CORD REEL #17	20	1	10	1,500	1,860			360	12	1	20	RADIANT HEATER RAD-2	80			
F	MOTORIZED DAMPER	20	1	12	200		560		360	12	1	20	RADIANT HEATER RAD-3	82			
83	SHOW WINDOW RCPTS	20	1	12	540			540	0	1	20	SPARE		84			
PER PHASE SUB-TOTALS						23,087	22,319	20,989	LEGEND:								
TOTAL CONNECTED PANELBOARD (VA)						66,394			TS - VIA TIME SWITCH								
TOTAL CONNECTED PANELBOARD (AMPS)						66,184			CF - FIRE ALARM / RED / INTERRUPT								
TOTAL PANELBOARD DEMAND (VA)						66,184			SL - FIRE ALARM / RED / LOCKING TAB								
TOTAL PANELBOARD DEMAND (AMPS)						184			EM - EMERGENCY LTG. / LOCKING TAB								
												SL - REFER TO SITE LIGHTING PLAN ESL1					
												ST - SHUNT TRIP					
												LOK - LOCKING TAB					
												IG - ISOLATED GROUND					
												OL - REFER TO ONE-LINE DIAGRAM					