


Firestone
COMPLETE AUTO CARE™

REVISION LOG		
REV	DATE	DESCRIPTION
1	ADD#1	04/16/20
2	CB#1	06/30/20
3	IFC	07/23/20
4	CB 2	09/09/20

[illegible]

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Certificate of Authority #A-2008031944
Architecture



Firestone
COMPLETE AUTO CARE™

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 DELETERIOUS TO THE INTERESTS OF BRIDGESTONE RETAIL OPERATIONS, LLC. THE ACCEPTANCE OF THIS DRAWING WILL BE CONSTRUED AS AN ACCEPTANCE OF THE FOREGOING CONDITION AND AS ADMISSION TO THE EXCLUSIVE OWNERSHIP IN AND TO THE DRAWING BY BRIDGESTONE RETAIL OPERATIONS, LLC.

STIPULATION OF REUSE
THIS DRAWING WAS PREPARED FOR USE ON A SPECIFIC SITE AT LEE'S SUMMIT, MO CONTEMPORANEOUSLY WITH ITS ISSUE DATE ON 03/26/2020 AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION 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



09/09/2020

Digitally signed by Mitchell Garrett
DN: cn=US,
E=mitchr@sgadesigngroup.com,
O=SGA Design Group,
CN=Mitchell Garrett
Date: 2020.09.09 11:14:41 -0500

Mitchell Garrett

MITCHEL RAY GARRETT - ARCHITECT
MO# A-007541

ISSUE BLOCK		
1	04/16/20	ADD #1
2	06/30/20	CB#1
3	07/23/20	IFC
PROPERTY NO.:		160085
DIGIT NO.:		906983
DIGIT NO.:		78C9C
PROJECT NUMBER:		1955B71
PERMIT:		DATE: 03/26/2020
BID:		DATE: ## ## ##

TITLE SHEET

SHEET NUMBER:

T1

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

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	<u>1,508 SF</u>
GROSS TOTAL	6,262 SF

311.2 Occupancy Group S-1 (Moderate Hazard) - Inventory
311.2 Occupancy Group S-1 (Moderate Hazard) - Service Areas

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, 1 story, 23' 8" height

Structural Frame:
Floor and Roof Construction:
Exterior Bearing Walls:

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.

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:

- Buildings having two or more stories above grade plane, including basements, with a fire area containing a repair garage exceeding 10,000 square feet.
- Buildings not more than one story above grade plane, with a fire area containing a repair garage exceeding 12,000 square feet.
- Buildings with repair garages servicing vehicles parked in basements.
- A group S-1 fire area used for repair of commercial motor vehicles where the fire area exceeds 5,000 square feet.

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)

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.

2109.2.1 Toilet room floors shall have smooth, hard, nonabsorbent surface that extends upward onto the walls at least 6 feet.

2109.2.2 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.

ALL ITEMS SHALL FULLY COMPLY WITH IBC ACCESSIBILITY GUIDELINES SECTION 1101.2 ACCESSIBLE BUILDINGS: NEW CONSTRUCTION

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.

3. FIRE EXTINGUISHERS SHALL BE LOCATED PER DIRECTION OF FIRE DEPARTMENT. REFER GENERAL NOTE #4 AND SHEET L51 FOR REQUIRED F.E. LOCATIONS.

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.

5. ALL SIGNAGE, SHELVING, AND ALARMS SHALL BE DEFERRED SUBMITTALS UNDER SEPARATE PERMIT SUBMISSION.

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.

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.

8. **FIRE PROTECTION** -
a. APPROVAL OF SPRINKLER DRAWINGS IS REQUIRED BY BRIDGESTONE CONSTRUCTION MANAGER.

b. NO MAIN LINES RUN WITHIN THE PLAN AREA OF THE OPEN OR UP POSITION OF THE OVERHEAD DOOR.

c. FIRE SPRINKLER TEST PIPE TO BE DIRECTED TO HANDSCAPE 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.

SHT.	TITLE	DWG. DATE	REV. NO.	REV. DATE	FOR LEASE DOC	FOR PERMIT	FOR BIDS	FOR CONC.
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GENERAL INFORMATION (FOR REFERENCE)							
T1	TITLE SHEET	03/26/20	3	07/23/20	- / - / -	03/26/20	- / - / -
N1	GENERAL INFORMATION	03/26/20	3	07/23/20	- / - / -	03/26/20	- / - / -
LS1	LIFE SAFETY PLAN	03/26/20	3	07/23/20	- / - / -	03/26/20	- / - / -
PSL1	PHOTOMETRIC SITE LIGHTING	03/26/20	3	07/23/20	- / - / -	03/26/20	- / - / -
STORE PLANNING (FOR REFERENCE)							
F1	FIXTURE PLAN & NOTES	03/26/20	3	07/23/20	- / - / -	03/26/20	- / - / -
F2	SHOWROOM FIXTURE PLAN & ELEVATIONS	03/26/20	3	07/23/20	- / - / -	03/26/20	- / - / -
ARCHITECTURAL DRAWINGS							
A1	METAL BUILDING PLAN & NOTES	03/26/20	3	07/23/20	- / - / -	03/26/20	- / - / -
A1.1	FLOOR PLAN & NOTES	03/26/20	3	07/23/20	- / - / -	03/26/20	- / - / -
A1.2	ENLARGED PLAN DETAILS	03/26/20	3	07/23/20	- / - / -	03/26/20	- / - / -
A2	REFLECTED CEILING & FINISH PLAN	03/26/20	3	07/23/20	- / - / -	03/26/20	- / - / -
A3	ROOF PLAN & DETAILS	03/26/20	3	07/23/20	- / - / -	03/26/20	- / - / -
A4	EXTERIOR ELEVATIONS & DETAILS	03/26/20	4	09/09/20	- / - / -	03/26/20	- / - / -
A5	BUILDING SECTIONS & DETAILS	03/26/20	3	07/23/20	- / - / -	03/26/20	- / - / -
A5.1	WALL SECTIONS	03/26/20	3	07/23/20	- / - / -	03/26/20	- / - / -
A6	WALL SECTIONS & DETAILS	03/26/20	3	07/23/20	- / - / -	03/26/20	- / - / -
A6.1	TRASH/TIRE ENCLOSURE DETAILS	03/26/20	3	07/23/20	- / - / -	03/26/20	- / - / -
A7	INTERIOR ELEVS, SECTIONS & DETAILS	03/26/20	3	07/23/20	- / - / -	03/26/20	- / - / -
A8	ROOM FINISH & DOOR SCHEDULES	03/26/20	3	07/23/20	- / - / -	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.

COPIES	SUBMITTALS
3	FIRE ALARM
3	FIRE PROTECTION

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

SHT.	TITLE	DWG. DATE	REV. NO.	REV. DATE	FOR LEASE DOC	FOR PERMIT	FOR BIDS	FOR CONSTR.
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STRUCTURAL DRAWINGS							
S1	GENERAL NOTES	03/26/20	3	07/23/20	- / - / -	03/26/20	- / - / -
S2	FOUNDATION PLAN AND NOTES	03/26/20	3	07/23/20	- / - / -	03/26/20	- / - / -
S3	FOUNDATION DETAILS	03/26/20	4	09/09/20	- / - / -	03/26/20	- / - / -
FIRE PROTECTION DRAWINGS							
FP1	FIRE SPRINKLER PLAN	03/26/20	3	07/23/20	- / - / -	03/26/20	- / - / -
FP2	FIRE SPRINKLER NOTES AND DETAILS	03/26/20	3	07/23/20	- / - / -	03/26/20	- / - / -
FIRE ALARM DRAWINGS							
FA1	FIRE ALARM PLAN AND MATRIX	03/26/20	3	07/23/20	- / - / -	03/26/20	- / - / -
FA2	FIRE ALARM NOTES, PROGRAMMING AND CALCULATIONS	03/26/20	3	07/23/20	- / - / -	03/26/20	- / - / -
FA3	FIRE ALARM DETAILS	03/26/20	3	07/23/20	- / - / -	03/26/20	- / - / -
FA4	FIRE ALARM CONTROL PANEL LAYOUT	03/26/20	3	07/23/20	- / - / -	03/26/20	- / - / -
BURGLAR ALARM DRAWINGS							
BA1	INTRUSION ALARM PLAN AND MATRIX	03/26/20	3	07/23/20	- / - / -	03/26/20	- / - / -
BA2	INTRUSION ALARM NOTES AND CALCULATIONS	03/26/20	3	07/23/20	- / - / -	03/26/20	- / - / -
BA3	INTRUSION ALARM CONTROL PANEL LAYOUT AND DETAILS	03/26/20	3	07/23/20	- / - / -	03/26/20	- / - / -
MECHANICAL DRAWINGS							
M1	MECHANICAL PLAN AND NOTES	03/26/20	3	07/23/20	- / - / -	03/26/20	- / - / -
M2	MECHANICAL DETAILS	03/26/20	3	07/23/20	- / - / -	03/26/20	- / - / -
M3	MECHANICAL EQUIPMENT SCHEDULES	03/26/20	3	07/23/20	- / - / -	03/26/20	- / - / -
PLUMBING DRAWINGS							
P1	PLUMBING PLAN AND NOTES	03/26/20	3	07/23/20	- / - / -	03/26/20	- / - / -
P2	ENLARGED RESTROOM PLUMBING PLANS	03/26/20	3	07/23/20	- / - / -	03/26/20	- / - / -
P3	AIR PIPING PLAN AND NOTES	03/26/20	3	07/23/20	- / - / -	03/26/20	- / - / -
P4	OIL PIPING DETAILS	03/26/20	3	07/23/20	- / - / -	03/26/20	- / - / -
P5	PLUMBING DETAILS	03/26/20	3	07/23/20	- / - / -	03/26/20	- / - / -
P6	PLUMBING SCHEDULES AND RISERS	03/26/20	3	07/23/20	- / - / -	03/26/20	- / - / -
ELECTRICAL DRAWINGS							
E1	ELECTRICAL SYMBOLS, NOTES AND SCHEDULES	03/26/20	3	07/23/20	- / - / -	03/26/20	- / - / -
E2	LIGHTING PLAN	03/26/20	4	09/09/20	- / - / -	03/26/20	- / - / -
E3	POWER PLAN	03/26/20	3	07/23/20	- / - / -	03/26/20	- / - / -
E4	ELECTRICAL DETAILS	03/26/20	3	07/23/20	- / - / -	03/26/20	- / - / -
E5	ONE-LINE DIAGRAM, PANEL SCHEDULES AND NOTES	03/26/20	4	09/09/20	- / - / -	03/26/20	- / - / -
ESL1	SITE LIGHTING PLAN	03/26/20	3	07/23/20	- / - / -	03/26/20	- / - / -

- 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@sgadesigngroup.com.

FS LEE'S SUMMIT, LLC
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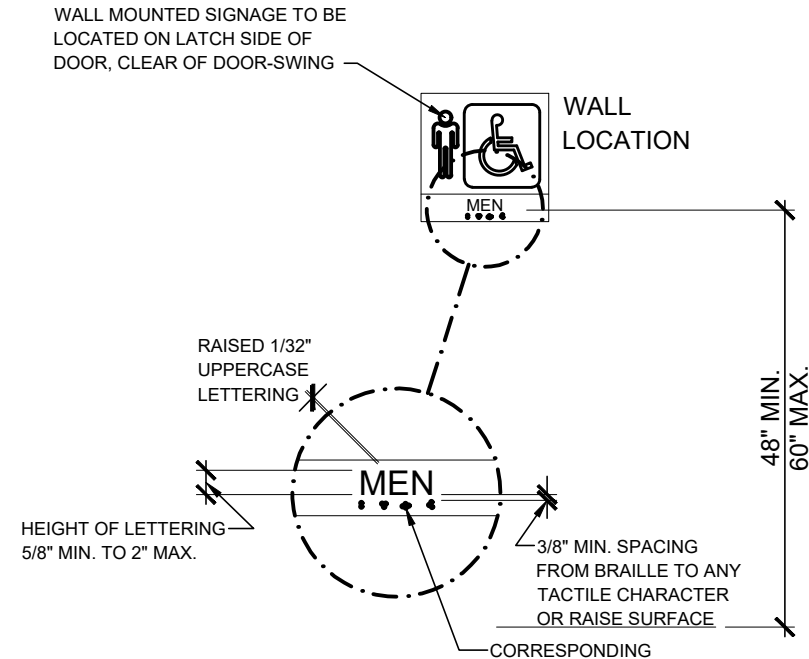
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BRIDGESTONE RETAIL OPERATIONS, LLC
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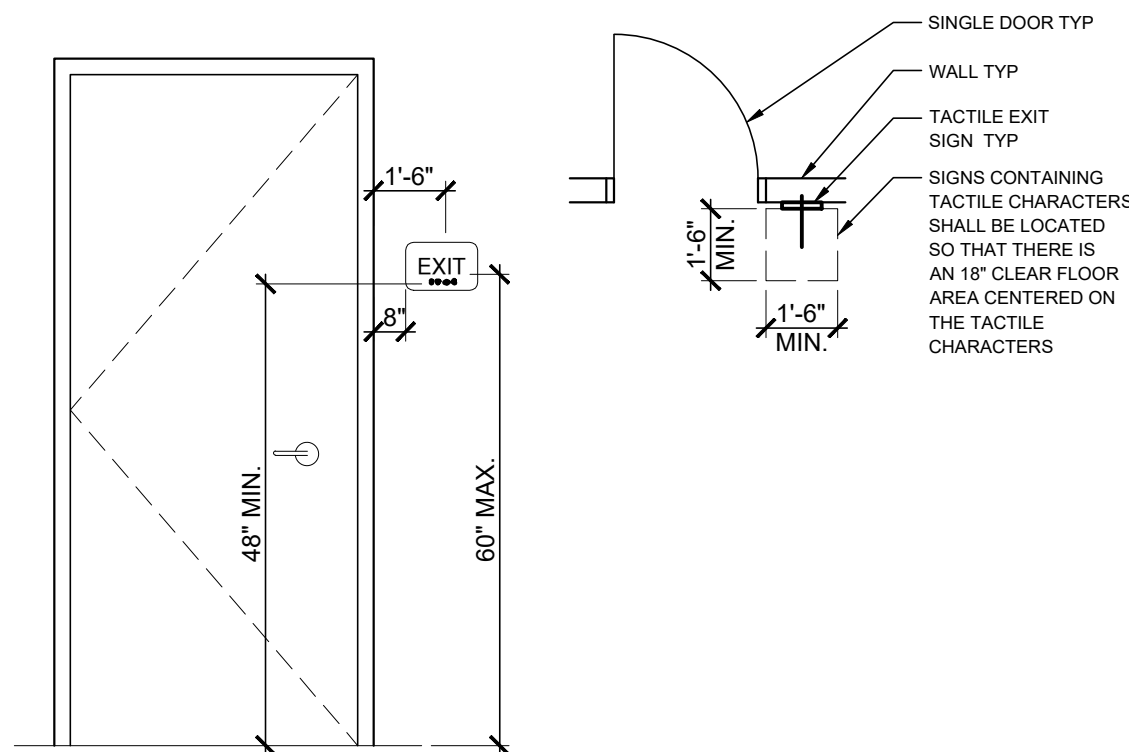
RESTROOM SYMBOLS



SIGNS & IDENTIFICATION

- THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE THE STANDARD USED TO IDENTIFY FACILITIES THAT ARE ACCESSIBLE TO AND USABLE BY PHYSICALLY DISABLED PERSONS AS SET FORTH IN TITLE III AND AS SPECIFICALLY REQUIRED IN THIS SECTION
- THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND. THE BLUE SHALL BE EQUAL TO COLOR NO. 10000 IN FEDERAL STANDARD 598B. PICTOGRAMS AND THEIR FIELDS SHALL HAVE A NON-GLARE FINISH. PICTOGRAMS SHALL CONTRAST THEIR FIELDS, WITH EITHER A LIGHT PICTOGRAM ON A DARK FIELD OR A DARK PICTOGRAM ON A LIGHT FIELD.
- FOR CHARACTER WIDTH, THE UPPERCASE LETTER "O" SHALL BE USED TO DETERMINE THE ALLOWABLE WIDTH OF ALL CHARACTERS OF A FONT. THE WIDTH OF THE UPPERCASE LETTER "O" OF THE FONT SHALL BE 55 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "Y" OF THE FONT. (ICC A117.1-2017: 703.3.6) CHARACTER HEIGHT MEASURED FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8" (16 MM) MINIMUM AND 2 INCHES (51 MM) MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "Y".
- MINIMUM CHARACTER HEIGHT SHALL COMPLY WITH ICC ANSI A117.1-2017: 703.3.5. VIEWING DISTANCE SHALL BE MEASURED AS THE HORIZONTAL DISTANCE BETWEEN THE CHARACTER AND AN OBSTRUCTION PREVENTING FURTHER APPROACH TOWARDS THE SIGN. CHARACTER HEIGHT SHALL BE BASED ON THE UPPERCASE LETTER "Y".
- CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND
 - LETTERS AND NUMBERS ON SIGNS SHALL BE RAISED 1/32" MINIMUM AND SHALL BE SANS-SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE
 - RAISED CHARACTERS OR SYMBOLS SHALL BE A MINIMUM OF 5/8" HIGH AND 2" MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "Y".
 - PICTORIAL SYMBOL SIGNS (PICTOGRAMS) SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE A MINIMUM OF 6" IN HEIGHT
- CONTRACTED GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE SYMBOLS ARE SPECIFICALLY REQUIRED IN OTHER PORTIONS OF THESE REGULATIONS. DOTS SHALL BE 0.090" (2.3 MM) TO 0.100" (2.5 MM) ON CENTER IN EACH CELL WITH 0.241" (6.1 MM) TO 0.300" (7.6 MM) SPACE BETWEEN CELLS. DOTS SHALL BE RAISED A MINIMUM OF 0.025" (0.6 MM) TO 0.037" (0.9 MM) ABOVE THE BACKGROUND.
- WHEN PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, RAISED LETTERS SHALL BE ACCOMPANIED BY BRAILLE. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING DOUBLE LEAF DOORS. SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT. MOUNTING HEIGHT SHALL BE LOCATED 48 INCHES (1220 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASE OF THE LOWEST TACTILE CHARACTER AND 60 INCHES (1525 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE. MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER, WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE, WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF, WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR, WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS. SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18 INCHES (455 MM) MINIMUM BY 18 INCHES (455 MM) MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION. EXCEPTION: SIGNS WITH TACTILE CHARACTERS SHALL BE PERMITTED ON THE PUSH SIDE OF DOORS WITH CLOSERS AND WITHOUT HOLD-OPEN DEVICES.

TACTILE EXIT SIGN

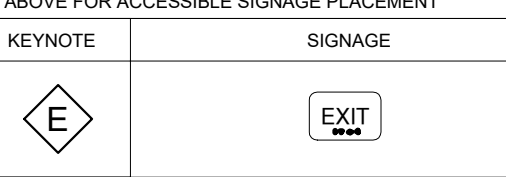


TACTILE SIGN REQUIREMENTS

- A TACTILE SIGN STATING "EXIT" AND COMPLYING WITH ICC A117.1 SHALL BE PROVIDED ADJACENT TO EACH DOOR TO AN EXIT PASSAGEWAY AND THE EXIT DISCHARGE. REF DOOR SCHEDULE FOR LOCATIONS.
- FOR CHARACTER WIDTH, THE UPPERCASE LETTER "O" SHALL BE USED TO DETERMINE THE ALLOWABLE WIDTH OF ALL CHARACTERS OF A FONT. THE WIDTH OF THE UPPERCASE LETTER "O" OF THE FONT SHALL BE 55 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE "Y" OF THE FONT. (ICC A117.1-2017: 703.3.6) CHARACTER HEIGHT MEASURED FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8" (16 MM) MINIMUM AND 2 INCHES (51 MM) MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "Y".
- CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND
- CHARACTERS SHALL CONFORM TO THE FOLLOWING:
 - LETTERS AND NUMBERS ON SIGNS SHALL BE RAISED 1/32" MINIMUM AND SHALL BE SANS-SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE
 - RAISED CHARACTERS OR SYMBOLS SHALL BE A MINIMUM OF 5/8" HIGH AND A MAXIMUM OF 2"
- CONTRACTED GRADE 2 BRAILLE SHALL BE USED. DOTS SHALL BE 0.090" (2.3 MM) TO 0.100" (2.5 MM) ON CENTER IN EACH CELL WITH 0.241" (6.1 MM) TO 0.300" (7.6 MM) SPACE BETWEEN CELLS. DOTS SHALL BE RAISED A MINIMUM OF 0.025" (0.6 MM) TO 0.037" (0.9 MM) ABOVE THE BACKGROUND.
- SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR, WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING DOUBLE LEAF DOORS. SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT. MOUNTING HEIGHT SHALL BE LOCATED 48 INCHES (1220 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASE OF THE LOWEST TACTILE CHARACTER AND 60 INCHES (1525 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER, WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF, WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR, WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS. SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18 INCHES (455 MM) MINIMUM BY 18 INCHES (455 MM) MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION. EXCEPTION: SIGNS WITH TACTILE CHARACTERS SHALL BE PERMITTED ON THE PUSH SIDE OF DOORS WITH CLOSERS AND WITHOUT HOLD-OPEN DEVICES.

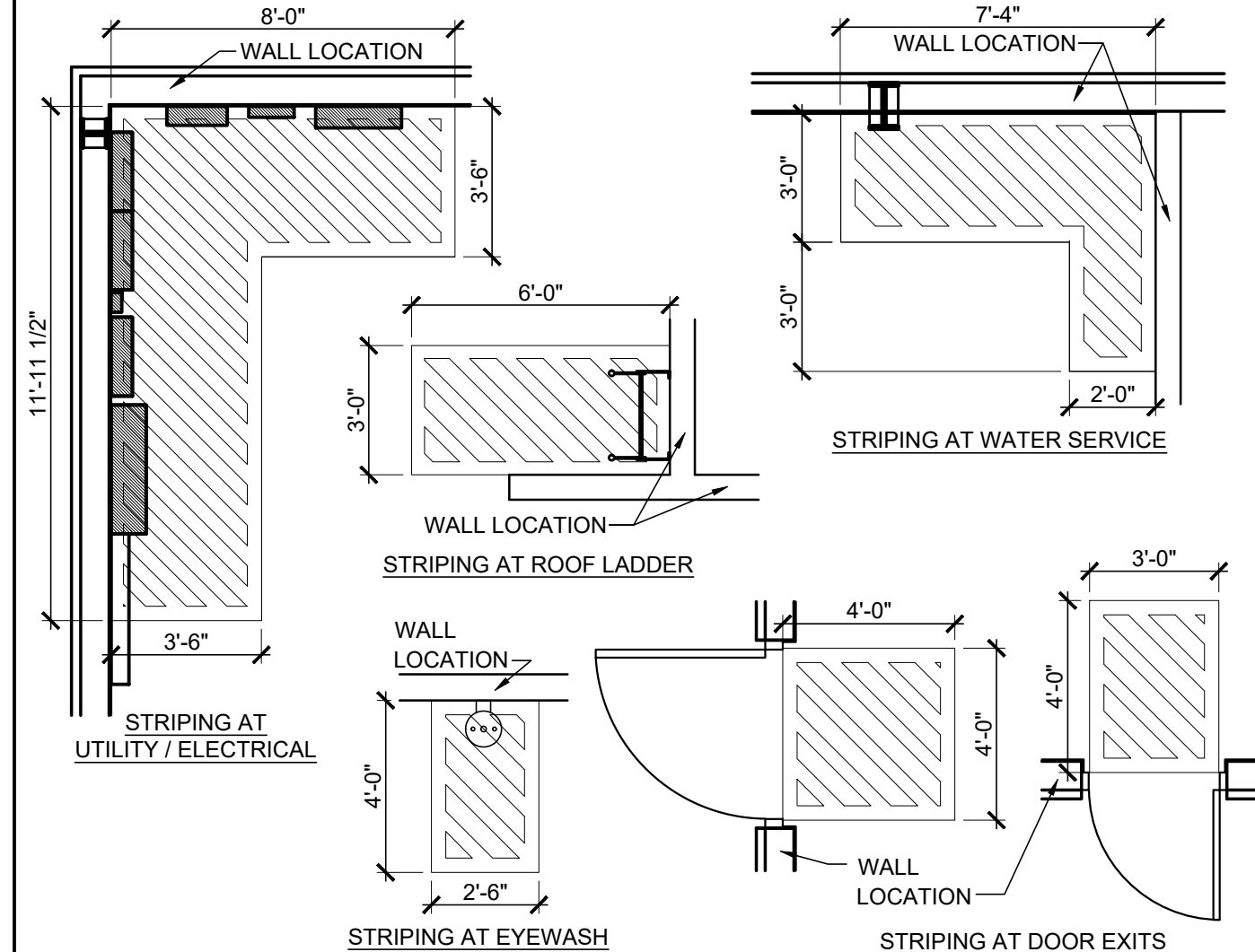
TACTILE EXIT SIGN LEGEND

REF: TACTILE SIGN REQUIREMENTS AND DIMENSIONS ABOVE FOR ACCESSIBLE SIGNAGE PLACEMENT



STRIPING CONDITIONS

STRIPING REQUIREMENTS: 4" WIDE PAINTED STRIPES (YELLOW, REF SPECS) AT 12" O.C. AT 45 DEG. ANGLE WITH 4" WIDE BOUNDARY LINE CONTINUOUS AROUND PERIMETER.



SIGNAGE LEGEND



- REQUIRED ACCESSIBLE ELEMENTS SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AT THE FOLLOWING LOCATIONS

-ACCESSIBLE ENTRANCES WHERE NOT ALL ENTRANCES ARE ACCESSIBLE

-ACCESSIBLE CHECK-OUT AISLES WHERE NOT ALL AISLES ARE ACCESSIBLE. THE SIGN, WHERE PROVIDED, SHALL BE ABOVE THE CHECK-OUT AISLE IN THE SAME LOCATION AS THE CHECK-OUT AISLE NUMBER OR TYPE OF CHECK-OUT IDENTIFICATION

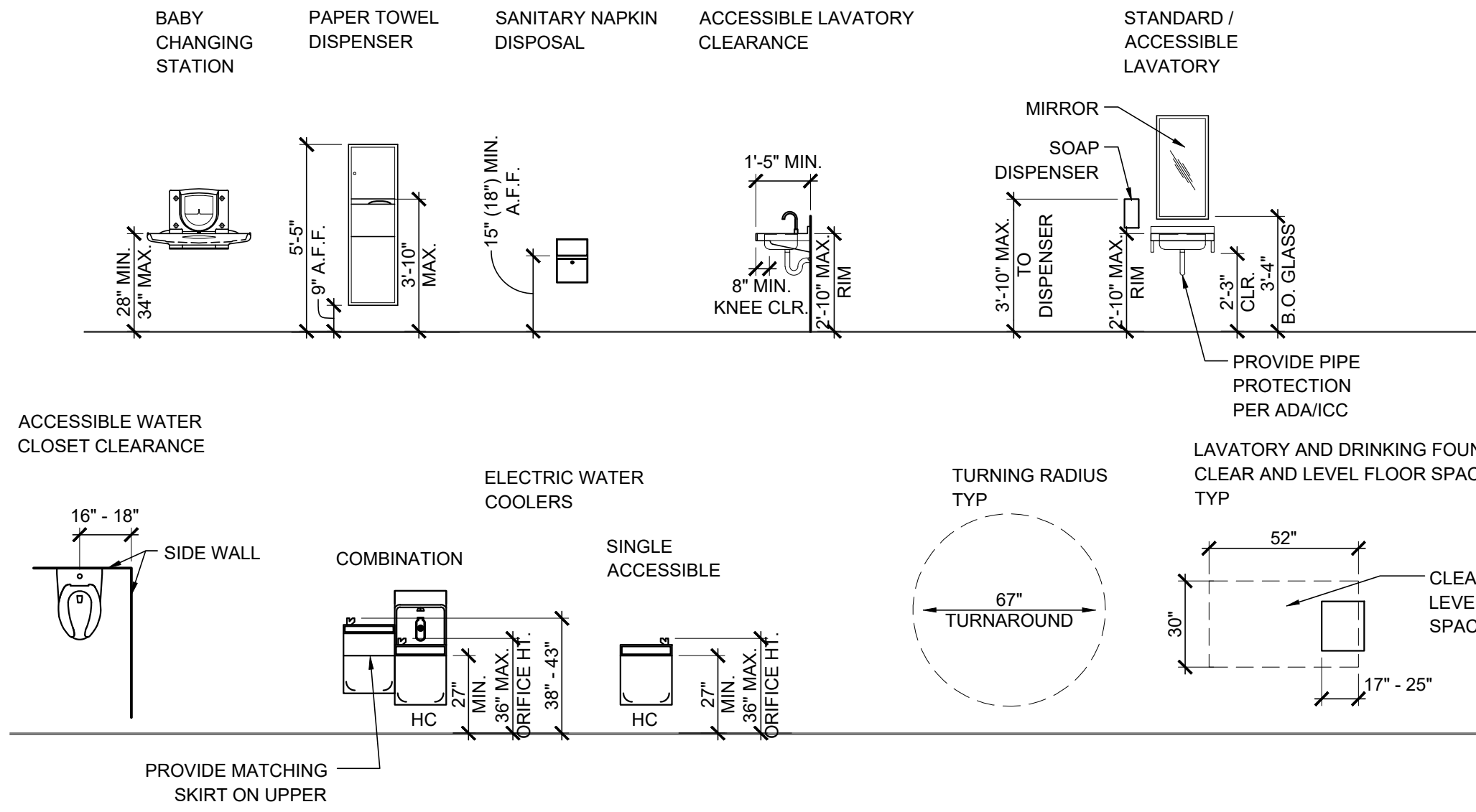
-UNISEX TOILET

-ACCESSIBLE DRESSING, FITTING AND LOCKER ROOMS WHERE NOT ALL SUCH ROOMS ARE ACCESSIBLE

- TACTILE SIGNAGE SHALL BE LOCATED 48 INCHES (1220 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASE OF THE LOWEST TACTILE CHARACTER AND 60 INCHES (1525 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER, WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE, WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF, WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR, WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS. SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18 INCHES (455 MM) MINIMUM BY 18 INCHES (455 MM) MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION. EXCEPTION: SIGNS WITH TACTILE CHARACTERS SHALL BE PERMITTED ON THE PUSH SIDE OF DOORS WITH CLOSERS AND WITHOUT HOLD-OPEN DEVICES.
- CHARACTER AND SYMBOLS OF SIGNS SHALL BE IN CONTRAST WITH THEIR BACKGROUND AND SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE MATERIALS OR FINISHES
- ACCESSIBLE SIGNAGE SHALL USE GRADE 2 BRAILLE AND MUST COMPLY WITH ICC ANSI A117.1-2017: 703.4.

FIXTURE HEIGHTS AND CLEARANCES

COMPLY WITH THIS CHART, ICC A117.1-2017, AND ADA STANDARDS FOR ACCESSIBLE DESIGN



MOLD AND MILDEW NOTES

- THE FOLLOWING REQUIREMENTS SHALL APPLY TO ALL NEW AND REMODEL CONSTRUCTION PROJECTS THE CONTRACTOR SHALL COMPLY WITH FEDERAL ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION REGULATIONS AND ALL LOCAL AND STATE HEALTH DEPARTMENT REQUIREMENTS AND RECOMMENDATIONS REGARDING MOLD AND MILDEW.
- IN THE EVENT THE CONTRACTOR DISCOVERS, AT ANY TIME THE PRESENCE OF MOLD AND / OR MILDEW, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE AND THE ARCHITECT / ENGINEER OF RECORD, IN WRITING, OF THE CONCERNS AND/OR SUSPICIONS.
- CURRENTLY, THE CONTRACTOR SHALL BE RESPONSIBLE TO RETAIN A MOLD AND MILDEW CERTIFIED TESTING AGENCY TO PERFORM AN INVESTIGATION AND TESTING AS REQUIRED TO EVALUATE THE NATURE AND EXTENT OF THE PROBLEM. IF THE TESTING AGENCY CONFIRMS HAZARDS, THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN A MINIMUM OF THREE (3) BIDS FROM COMPANIES QUALIFIED AND LICENSED TO PERFORM ALL NECESSARY REMEDIATION WORK, COMPLYING WITH ALL LOCAL, STATE AND FEDERAL ENVIRONMENTAL REGULATIONS, CODES, AND STATUTES.
- ONCE SUSPICION OF MOLD AND / OR MILDEW IS MADE, THE CONTRACTOR SHALL TAKE ALL REASONABLE AND PRACTICAL PRECAUTIONS TO PROTECT ALL CONSTRUCTION PERSONNEL AND THE PUBLIC FROM THE EXPOSURE TO MOLD AND / OR MILDEW, AND SUCH PRECAUTIONS SHALL REMAIN IN PLACE UNTIL SUCH TIME AS THE OWNER OR HEALTH AUTHORITY DIRECTS OTHERWISE. CONSTRUCTION OPERATIONS SHALL NOT BE STOPPED OR CURTAILED, EXCEPT IN THE AREA OF MOLD / MILDEW CONCERN, DUE TO THESE REQUIRED PRECAUTIONS.
- THE CONTRACTOR SHALL MAKE ALL REASONABLE EFFORTS TO AVOID CONDITIONS FAVORABLE TO THE DEVELOPMENT OF MOLD AND MILDEW, ESPECIALLY IN VOIDS WHICH WILL BE CONCEALED AND NOT VENTILATED. IN ALL CASES, INTERIOR SPACES AND INTERIOR FINISHED CONSTRUCTION SHALL BE MAINTAINED IN DRY AND WELL-VENTILATED CONDITIONS.
 - PENETRATIONS SHALL BE SEALED WATER-TIGHT TO PREVENT MOISTURE MIGRATION FROM ENTERING THE BUILDING OR WALL CAVITIES.
 - ALL CONDENSATE DRAIN PANS SHALL BE CLEANED AND KEPT FREE FROM DEBRIS UNTIL AND WHEN THE FACILITY IS TURNED OVER TO THE OWNER. INSURE POSITIVE DRAINAGE AT ALL DRAIN PANS. INSURE THAT ALL "COLD" SURFACES ARE INSULATED AND COVERED WITH A FULLY SEALED AND CONTINUOUS VAPOR BARRIER. ("COLD" SURFACES INCLUDE, BUT ARE NOT LIMITED TO, DOMESTIC COLD WATER PIPING, INTERIOR RAIN LEADERS, OUTDOOR AIR INTAKES, AND DUCTWORK CARRYING AIR CONDITIONED SUPPLY AIR.)
 - ALL EXISTING SUPPLY AIR PATHS AND ALL EXISTING DUCTWORK TO BE RE-USED SHALL BE CLEANED AND TREATED AS REQUIRED TO REMOVE THE POTENTIAL FOR MOLD AND MILDEW. ALL DAMP AREAS SHALL BE DRIED THOROUGHLY PRIOR TO ENCLOSURE.

SYMBOLS

XX	TITLE	TITLE BUBBLE
XX	SCALE: FULL	DETAIL NUMBER
		SHEET NUMBER
\$		SECTION CUT
AXX		SECTION DETAIL
		SHEET NUMBER
#		ELEVATION REFERENCE
#		ELEVATION VIEW (OUTSIDE)
#		DETAIL NUMBER
#		SHEET NUMBER
		REVISION CLOUD
		DETAIL CLOUD
XXX		DETAIL NUMBER
XXX		SHEET NUMBER
		DATUM MARKS
		LOCATION
		ELEVATION REFERENCE
		DOOR INDICATOR
		WINDOW INDICATOR
		ROOM NAME AND NUMBER INDICATOR
		EQUIPMENT INDICATOR
		COLUMN LINE INDICATOR
		WALL TYPE INDICATOR
		TOILET ACCESSORIES INDICATOR
		FLOOR FINISH INDICATOR

1 BABY CHANGING STATION DETAIL
SCALE: 1"=1'-0"

2 FIXTURES AND GRAB BAR LOCATIONS
SCALE: 1/2"=1'-0"

ABBREVIATIONS

AT	LINEAR FEET
CENTERLINE	MAS
DIAMETER OR ROUND	MAX
MECH	MECHANICAL
A.AMP.	AMPERE
ABV	ABOVE
AC	AIR CONDITIONING
ACT	ACOUSTICAL TILE
ADA	AMERICANS W/ DISABILITIES ACT
A.F.F.	ABOVE FINISH FLOOR
AL	ALUMINUM
ALT.	ALTERNATIVE
APPROX.	APPROXIMATE
ARCH.	ARCHITECT
AU	AUTHORITY HAVING JURISDICTION
BD	BOARD
BLDG	BUILDING
BLK	BLOCK
BM	BEAM
B.O.	BOTTOM OF
B.O.C.	BASE OF CURB
BOT.	BOTTOM
BNG	BEARING
B.U.	BUILT-UP
C	CONDUIT OR CELSIUS
C.A.	COMPRESSED AIR LINE
C.B.	CATCH BASIN
C.C.	CENTER TO CENTER
CEM	CEMENT
CFM	CUBIC FEET PER MINUTE
C.J.	CONTROL JOINT
C.L.	CEILING
CLU	CLEAR
CMU	CONCRETE MASONRY UNIT
C.O.	CLEAN-OUT
COL	COLUMN
CONC.	CONCRETE
CONT.	CONTINUOUS
CONTR.	CONTRACTOR
CU	CONDENSING UNIT
CW	COLD WATER
C.B.T.	CERAMIC TILE
DBL	DOUBLE
DTL	DETAIL
DM	DIAMETER
DIA	DIMENSION
DN	DOWN
DWG.	DRAWING
EA	EACH
EF	EXHAUST FAN
E.I.F.S.	EXTERIOR INSULATION FINISH SYSTEM
E.J.	EXPANSION JOINT
E.L.	ELEVATION
ELECT.	ELECTRIC
EQ	EQUAL
EOP	EQUIPMENT
E.W.C.	ELECTRIC WATER COOLER
EXP.	EXPANSION
EXT.	EXTERIOR
F.A.	FIRE ALARM
FAI	FRESH AIR INTAKE
FO	FLOOR CLEAR OUT
FD	FIRE DAMPER
F.D.	FLOOR DRAIN
F.D.	FIRE DEPARTMENT CONNECTION
FON.	FOUNDATION
F.E.	FIRE EXTINGUISHER
FIN.	FINISH FLOOR
FIN.	FINISH (ED)
FLR	FLOOR (ING)
FRP	FIBER REINFORCED PANEL
FTG.	FOOT OR FEET
FTG.	FOOTING
FURR.	FURRING
GA	GAUGE
GAL	GALLON
GALV.	GALVANIZED
G.C.	GENERAL CONTRACTOR
G.F.I.	GROUND FAULT INTERRUPTER
GND	GROUND
GYP. BD.	GYPSUM BOARD
H.B.	HOBSE BIE
H.C.	HANDICAPPED
H.M.	HOLLOW METAL
H.P.	HIGH POINT AND HORSE-POWER
HVAC	HEATING VENTILATING AND AIR CONDITIONING
HW	HOT WATER
ID.	INSIDE DIAMETER
IE	INVERT ELEVATION
I.C.S.	ISOLATED GROUND
IN	INCH
INSUL	INSULATION
INT.	INTERIOR
INV.	INVERT
JT.	JOINT
LAM	LAMINATE
LAV.	LAVATORY
LBS.	POUNDS
L.F.	LINEAR FEET
MAS	MASONRY
MAX.	MAXIMUM
MECH.	MECHANICAL
MTL	METAL
MFR.	MANUFACTURER
MANHOLE	MANHOLE
MIN.	MINIMUM
MISC.	MISCELLANEOUS
M.O.	MASONRY OPENING
MOD	MOTOR OPERATED DAMPER
MR.	MOISTURE RESISTANT
MSB	MOP SINK BASIN
MTD	MOUNTED
MATL.	MATERIAL (S)
N.I.C.	NOT IN CONTRACT
NO. OR #	NUMBER
NOM.	NOMINAL
N.T.S.	NOT TO SCALE
O	OIL LINE
O.C.	ON CENTER (S)
O.D.	OUTSIDE DIAMETER
OH	OVERHEAD
OPG	OPENING
O.H.	OPPOSITE HAND
OPP.	OPPOSITE
O.S.A.	OUTSIDE AIR LINE
O.S.B.	ORIENTED STRAND BOARD
O.T.S.	OPEN TO STRUCTURE
PE	POLYETHYLENE
P.L.	PROPERTY LINE
PL	PLATE
P.LAM.	PLASTIC LAMINATE
PLUMB.	PLUMBING
PLYWD.	PLYWOOD
PNL	PANEL
PR	PAIR
PRE-FIN.	PRE-FINISHED
P.S.F.	POUNDS PER SQUARE FOOT
P.S.I.	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
R	RADIUS
RA	RETURN AIR
RAD.	RADIANT HEATER
R.D.	ROUND ROOF DRAIN
REIN.	REINFORCEMENT
RECD.	REQUIRED
RM	ROOM
R.O.	ROUGH OPENING
RESLT.	RESILIENT
S.A.	SUPPLY AIR
S.C.	SOLID CORE
SCHED.	SCHEDULE
S.D.	SMOKE DETECTOR
SEAL	SEALANT
SECT	SECTION
S.F.	SQUARE FOOT/FEET
SHT.	SHEET
SHTG.	SHEETING
SIM.	SIMILAR
S.J.	SAW CUT JOINT
SPECS.	SPECIFICATIONS
SQ	SQUARE
S.S.	STAINLESS STEEL
SAN	SANITARY
STD.	STANDARD
STL	STEEL
STRUCT.	STRUCTURAL
SUSP.	SUSPENDED
T	TREAD AND TRANSFORMER
TBL	TABLE
T&G	TONGUE & GROOVE
THK.	THICKNESS
T.O.	TOP OF
T.O.C.	TOP OF CURB/CONCRETE
T.P.	TOP OF PAVEMENT/PARAPET
T.S.	TUBE STEEL
TYP.	TYPICAL
U.D.I.	UNIFORM DISTRIBUTED LOAD
U.N.O.	UNLESS NOTED OTHERWISE
UR	URINAL
V	VOLTS AND VENT
VENT.	VENTILATION
VERT.	VERTICAL
V.I.F.	VERTIFY IN FIELD
V.C.T.	VINYL COMPOSITION TILE
VTR	VENT THRU ROOF
VTW	VENT THRU WALL
V.W.C.	VINYL WALL COVERING
W	WATTS AND WATER
W	WITH
WC	WATER CLOSET
W/O	WITHOUT
WCO	WALL CLEAN OUT
WD	WOOD
WH	WATER HEATER
WP	WATERPROOF
W.W.F.	WELDED WIRE FABRIC

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2020 ER
3561 SW MARKET ST.
JACKSON COUNTY
LEE'S SUMMIT, MISSOURI 64082



07/23/2020

Digitally signed by Mitch Garrett
DN: c=US, o=SGA Design Group, ou=Architecture
Date: 2020.07.23 12:42:21-0500

Mitchell Ray Garrett - ARCHITECT
MOP A-007541

ISSUE BLOCK

04/16/20	ADD #1
07/23/20	IFC

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

AOR PROJECT NUMBER: 1955871
TO PERMIT: DATE: 03/26/2020
TO BID: DATE: ###-###-###

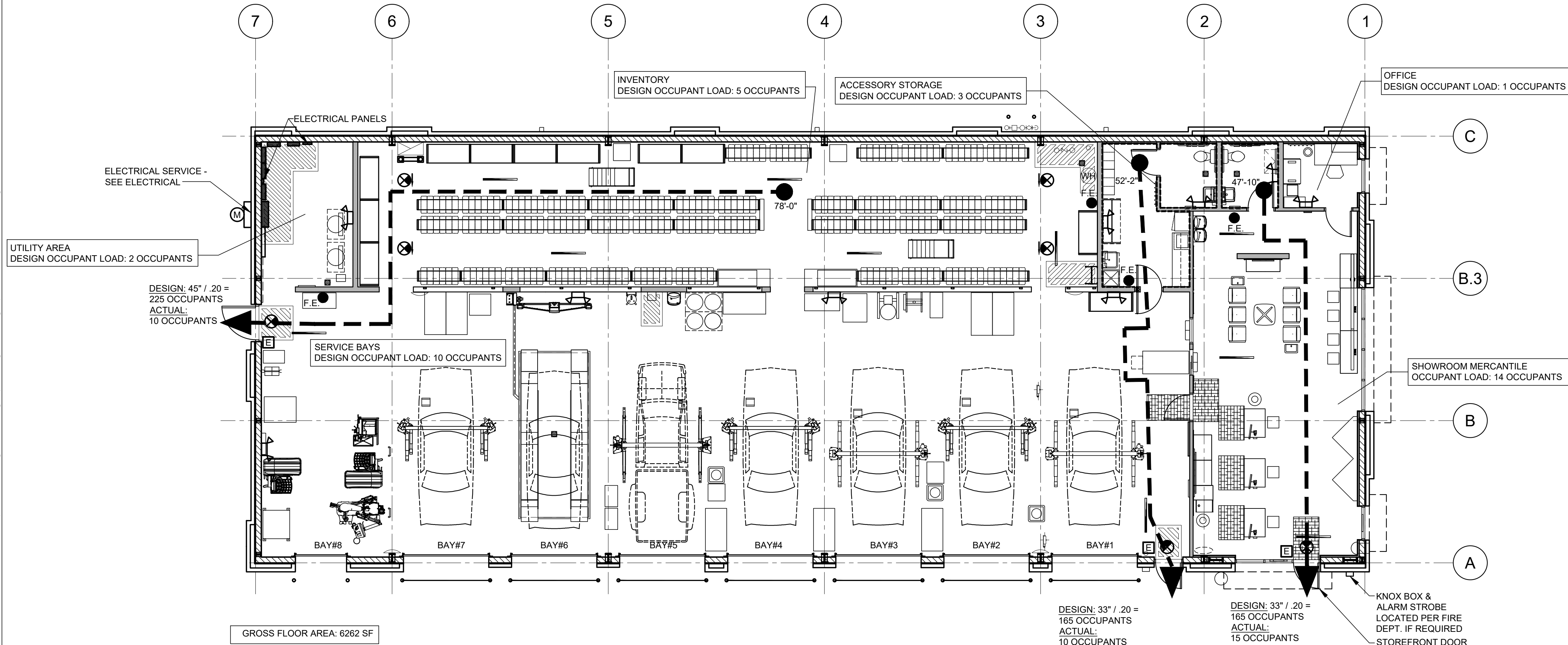
SHEET TITLE:
GENERAL INFORMATION

SHEET NUMBER:

N1

Jul 22, 2020 -- 8:41am -- USER: cderoh
P:\BSRO Projects\Lee's Summit, MO -- 1955B71 -- CBT\B -- Drawings & Design\Building Drawings\03_FCAC_ER-LS1.dwg

16 LIFE SAFETY PLAN
LS1 SCALE: 1/8"=1'-0"



SHEET NOTES

- ALL EXIT SIGNS AND EMERGENCY LIGHTS ARE SHOWN ON SHEET A2, E1, (SYMBOL LEGEND ON E3), AND WILL BE SUBJECT TO INSPECTION FROM THE FIRE MARSHAL HAVING AUTHORITY PRIOR TO FINAL APPROVALS.
- TRAVEL DISTANCE IS SHOWN AS A DASHED LINE.
- COORDINATE TYPE, SIZE AND FINAL LOCATIONS OF FIRE EXTINGUISHERS WITH LOCAL FIRE OFFICIALS.

LEGEND

- F.E. FIRE EXTINGUISHER
- TACTILE EXIT SIGNAGE
- EXIT WIDTH IN INCHES/NUMBER OF OCCUPANTS
- EMERGENCY LIGHTS
- EXIT LIGHT

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07/23/2020
Digitally signed by Mitch Garrett
DN: cn=Mitch Garrett, o=SGA Design Group, ou=Architecture
Mitchell Garrett
MITCHELL RAY GARRETT - ARCHITECT
MOP A-007541

ISSUE BLOCK		
Δ	04/16/20	ADD #1
Δ	07/23/20	IFC

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:
LIFE SAFETY PLAN
SHEET NUMBER:
LS1

JUL 22, 2020 - 8:41am - USER cderoh
P:\BSRO Projects\Lee's Summit, MO - 1955B71 - Drawings & Design\Building Drawings\04_FCAC_ER-PSL1.dwg

Luminaire Schedule							
Symbol	Qty	Label	Arrangement	LMF	Lum. Lumens	Lum. Watts	Part Number
	3	P1	SINGLE	1.000	22330	160	OSQ-A-NM-4ME-T-57K-UL-BZ + OSQ-AABZ
	1	P2	2 @ 90 DEGREES	1.000	22330	160	OSQ-A-NM-4ME-T-57K-UL-BZ + OSQ-AABZ
	19	N	SINGLE	1.000	2490	19	XSPW-B-WM-3ME-2L-57K-UL-BK (Wall Light)

Calculation Summary						
Label	Units	Avg	Max	Min	Avg/Min	Max/Min
Off Parking lot calcs	Fc	0.60	7.8	0.0	N.A.	N.A.
Parking Lot	Fc	4.20	11.4	1.1	3.82	10.36

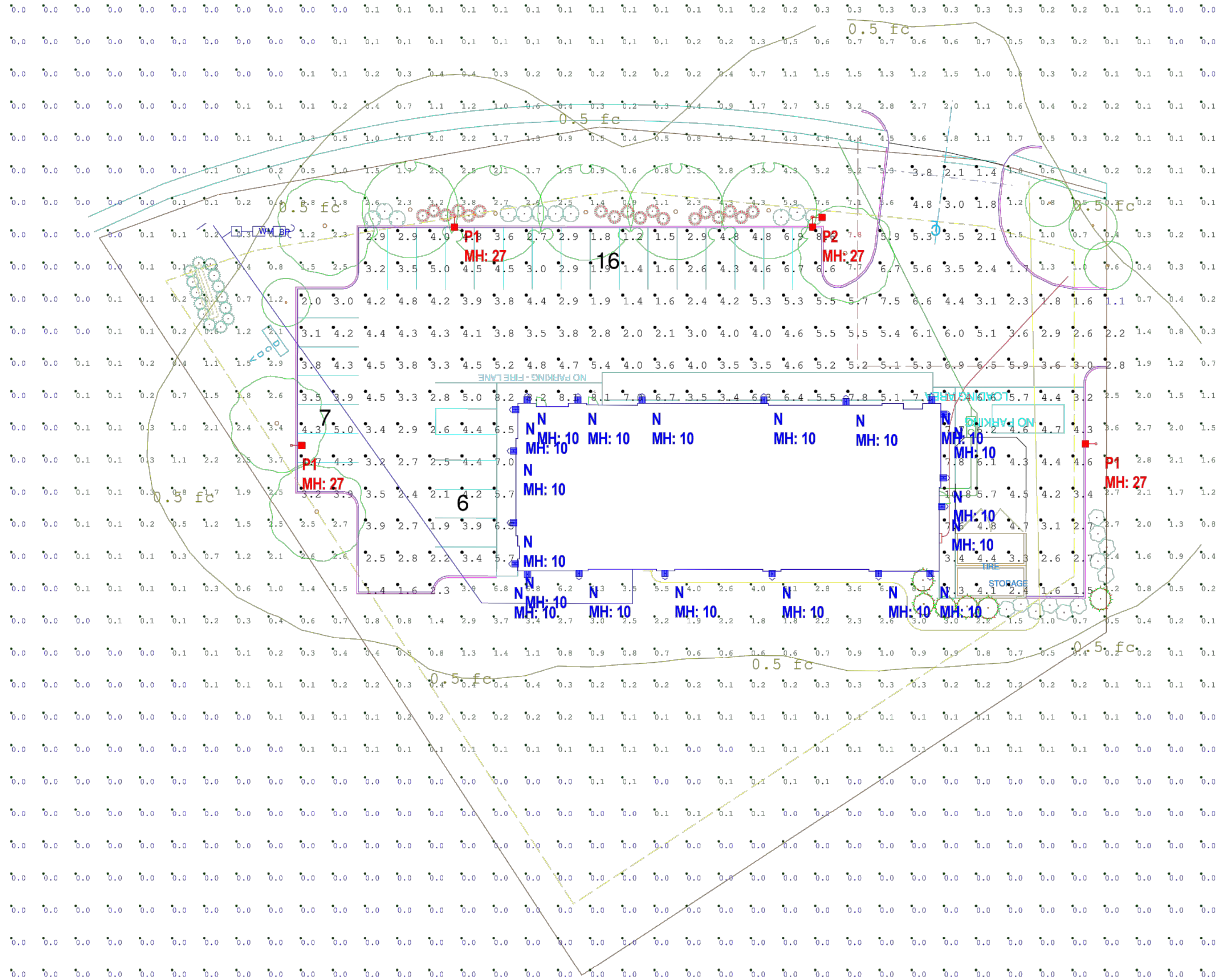
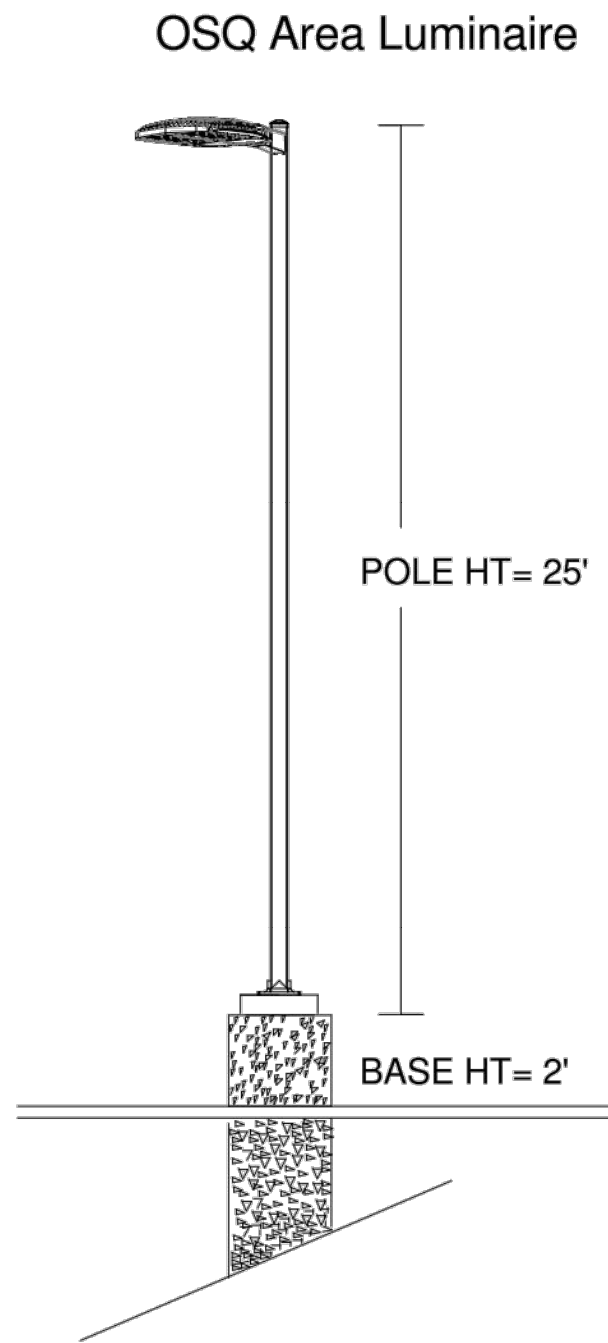
FIXTURE MOUNTING HEIGHTS AS SHOWN
POLES MOUNTED ON 2' BASE


POLE SCHEDULE:
(4) CL-SSP-4011-25-D6-BZ (25' x 4" STEEL SQUARE POLE, 11ga)

Additional Equipment
(5) OSQ-DABZ (Direct Arm Mount)
(1) PB-2A4 (Twin Mount Tenon)

PROPOSED POLES MEET 120 MPH SUSTAINED WINDS

***CUSTOMER TO VERIFY MOUNTING, VOLTAGE, AND COLOR
PRIOR TO PLACING ORDER





1200 92nd Street - Sturtevant, WI 53177 www.cree.com - (800) 236-6800

Project Name: BSRO Firestone - 3544 SW Market St Lee's Summit, MO

SR-40708

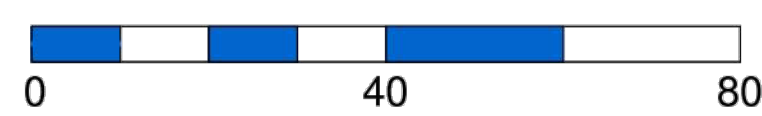
Footcandles calculated at grade

Filename: FRS-200212LSMOBAF.AGI

Layout By: Ben Foster

Date: 3/26/2020

Scale 1" = 20'



Illumination results shown on this lighting design are based on project parameters provided to Cree, Inc. used in conjunction with luminaire test procedures conducted under laboratory conditions. Actual project conditions differing from these design parameters may affect field results. The customer is responsible for verifying dimensional accuracy along with compliance with any applicable electrical, lighting or energy code.

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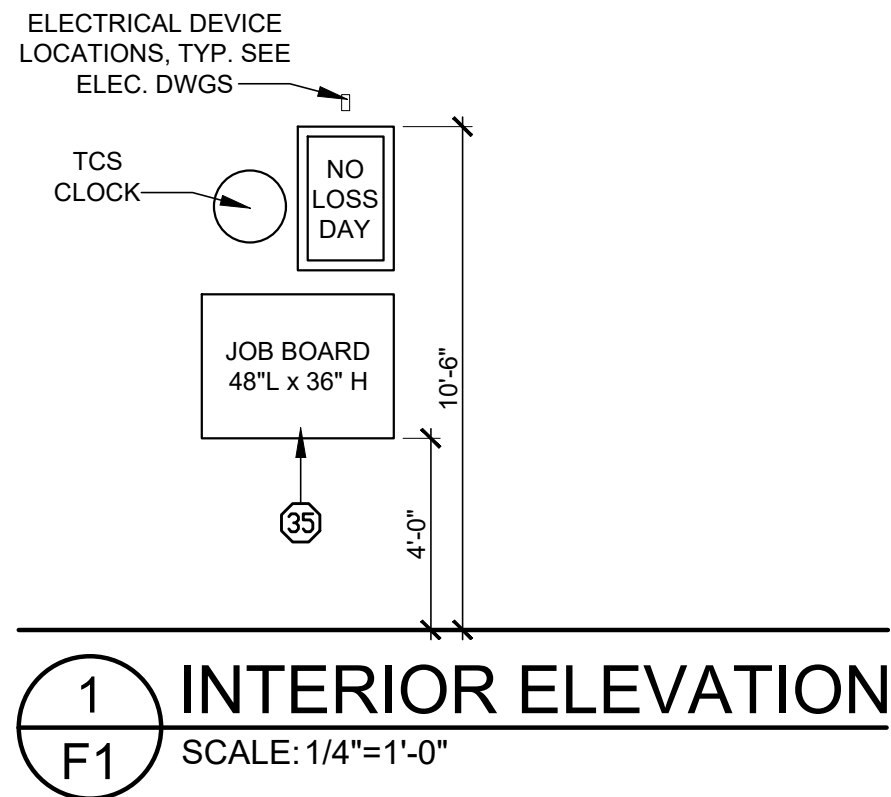
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MOP A-007541

ISSUE BLOCK		
Δ	04/16/20	ADD #1
Δ	07/23/20	IFC

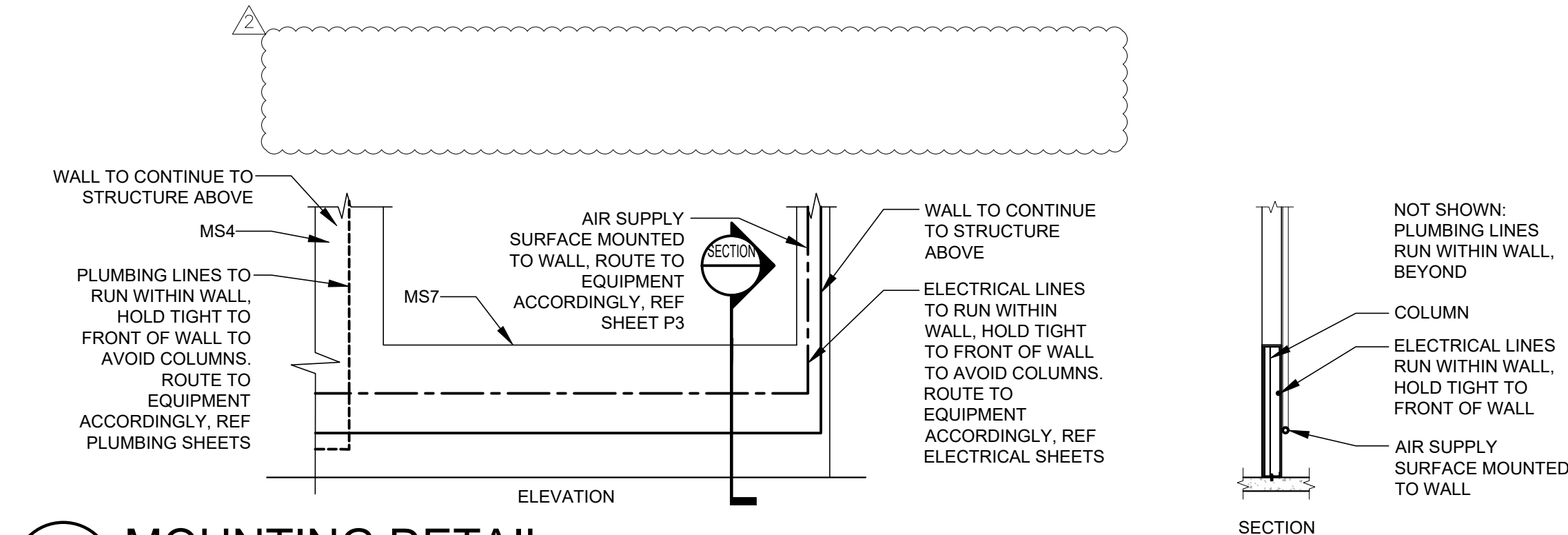
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6 DIGIT NO.: 906983
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AOR PROJECT NUMBER: 1955B71
TO PERMIT: DATE: 03/26/2020
TO BID: DATE: ###-###-###
KMP

SHEET TITLE:
PHOTOMETRIC
SITE LIGHTING

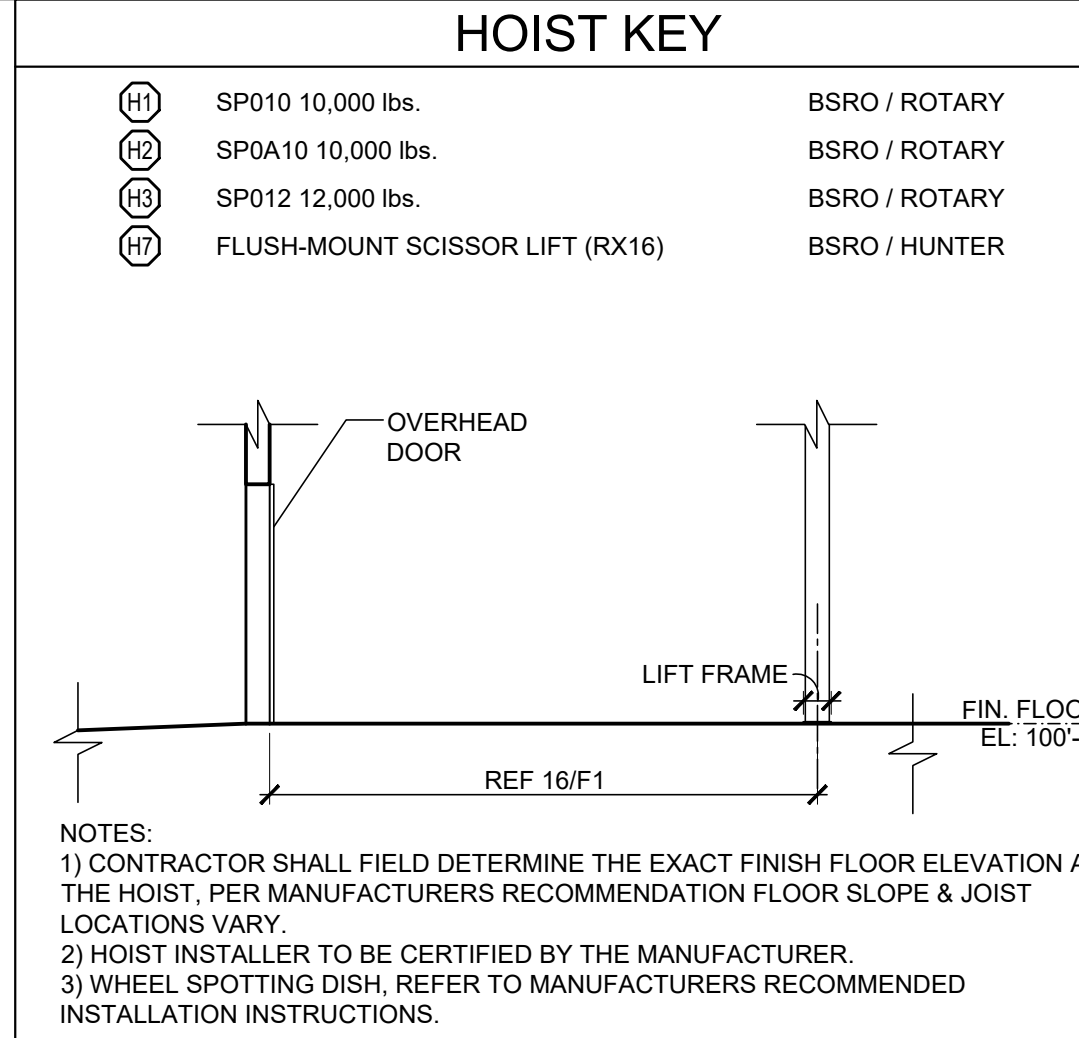
SHEET NUMBER:
PSL1



1 INTERIOR ELEVATION
F1 SCALE: 1/4"=1'-0"



3 MOUNTING DETAIL
F1 SCALE: 1/4"=1'-0"

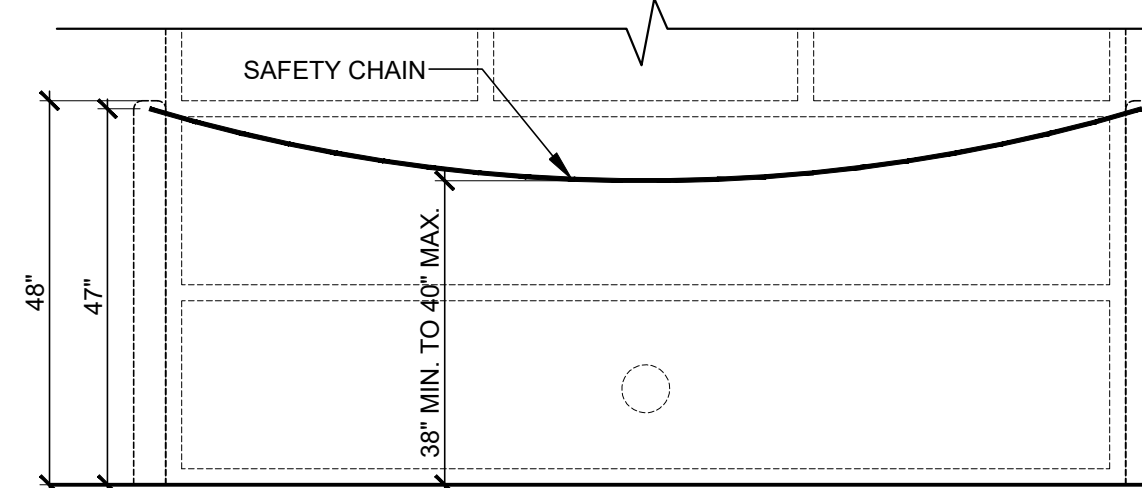


HOIST KEY

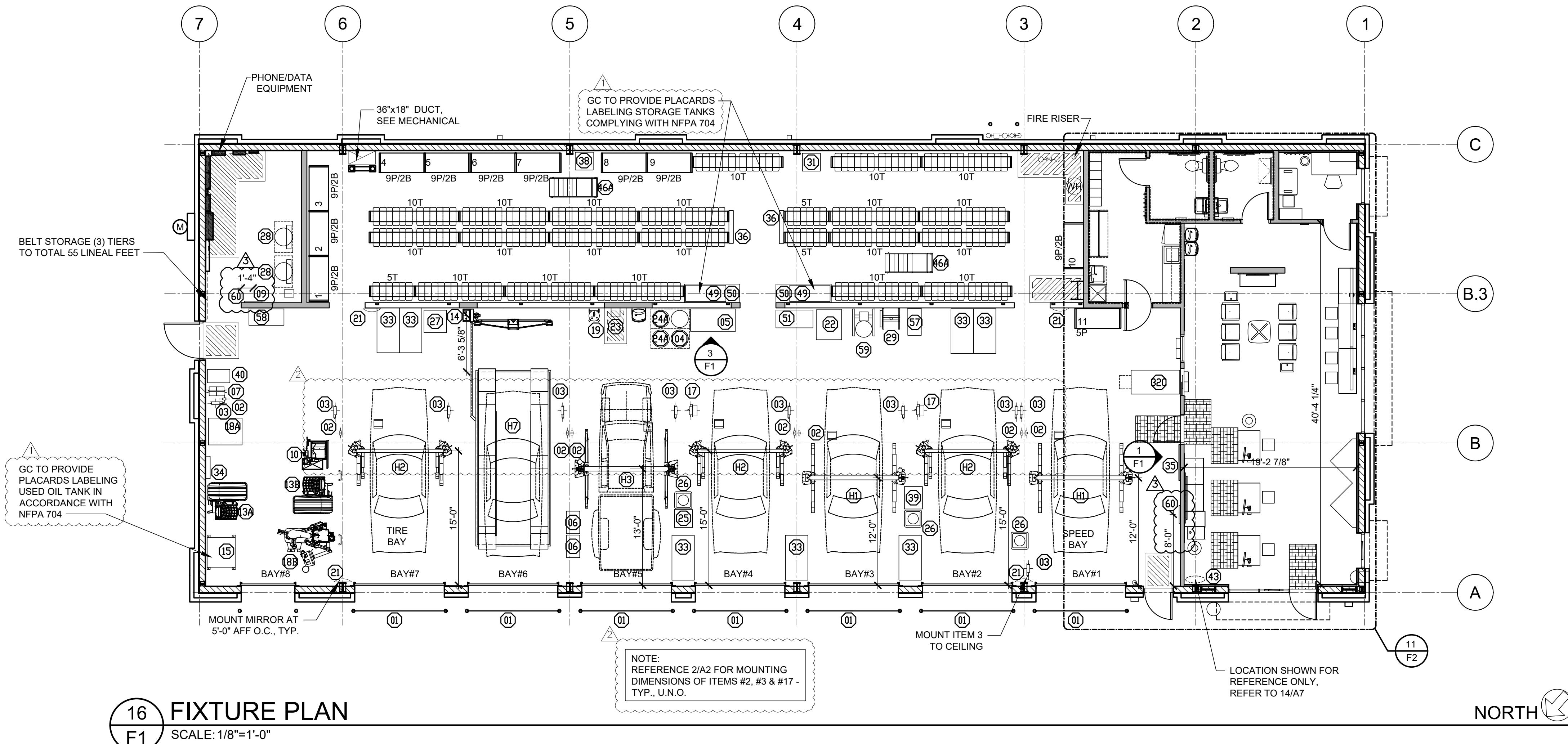
INVENTORY COUNT	S.F.
1,182 - UNITS/TIRES (5 TIERS OF TIRES)	802
475 - LF PARTS	3,421
	1,508
	531
	0
	6,262

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
60	2	MOP & BROOM HOLDER - MOUNT AT 72" AFF
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.	



20 SERVICE BAY SAFETY CHAIN
F1 SCALE: 1/2"=1'-0"



16 FIXTURE PLAN
F1 SCALE: 1/8"=1'-0"

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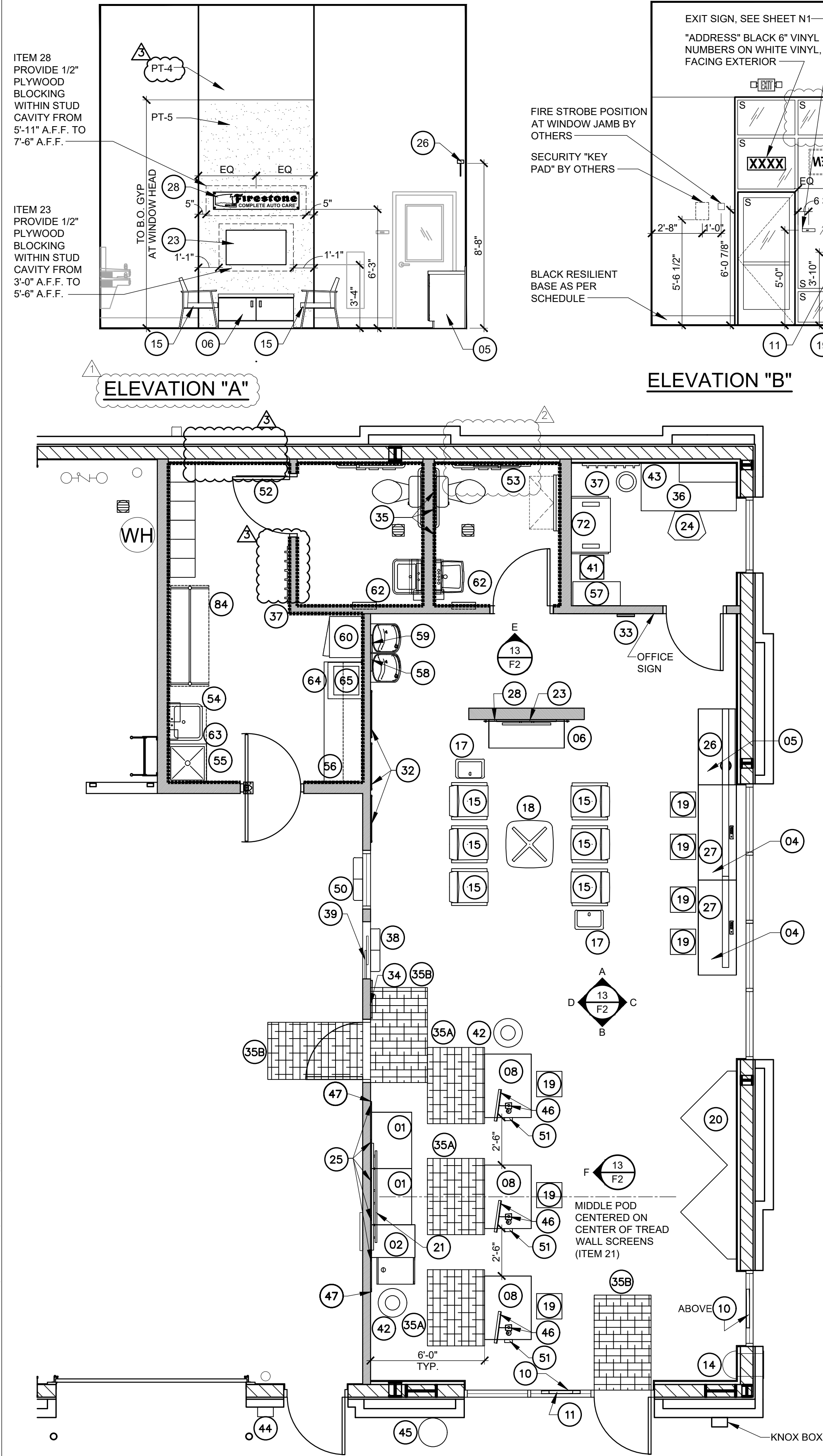
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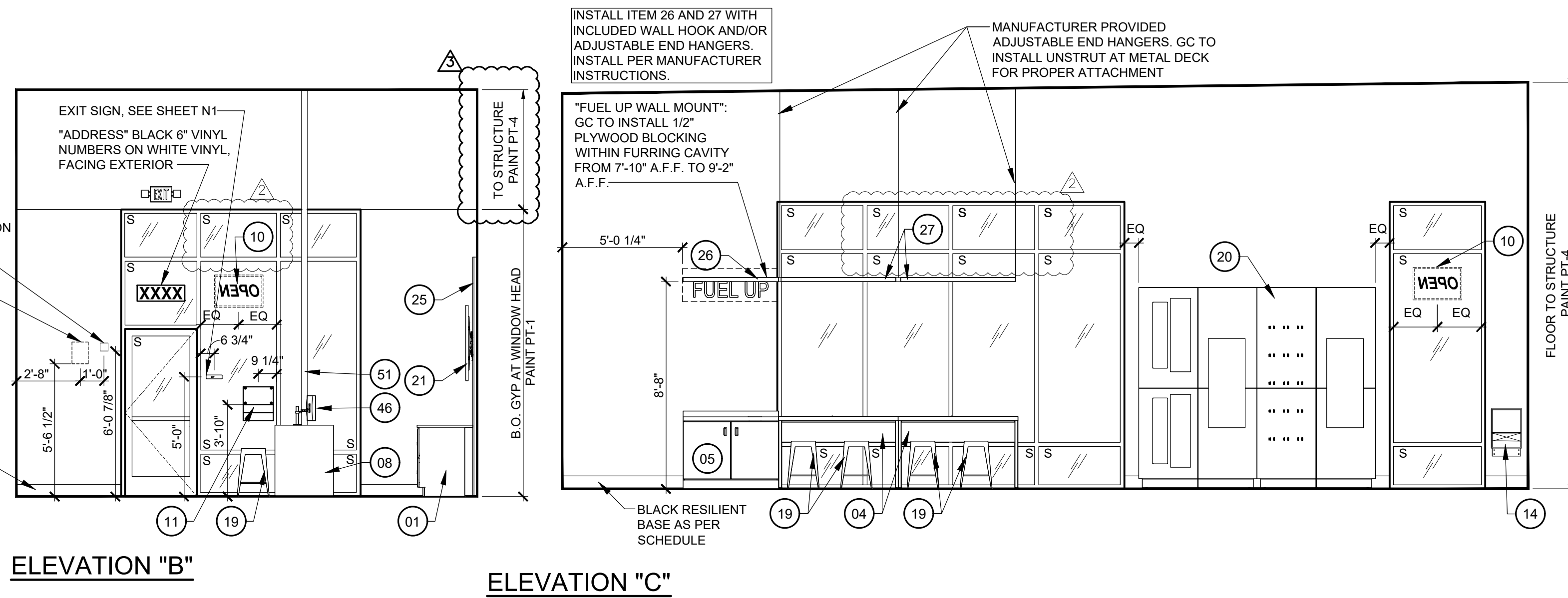
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MITCH GARRETT
NUMBER A-007541
07/23/2020
Digitally signed by Mitchell Garrett
DN: cn=Mitchell Garrett, email=mgarrett@sgadesigngroup.com, c=US
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MITCHELL RAY GARRETT - ARCHITECT
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PROPERTY 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

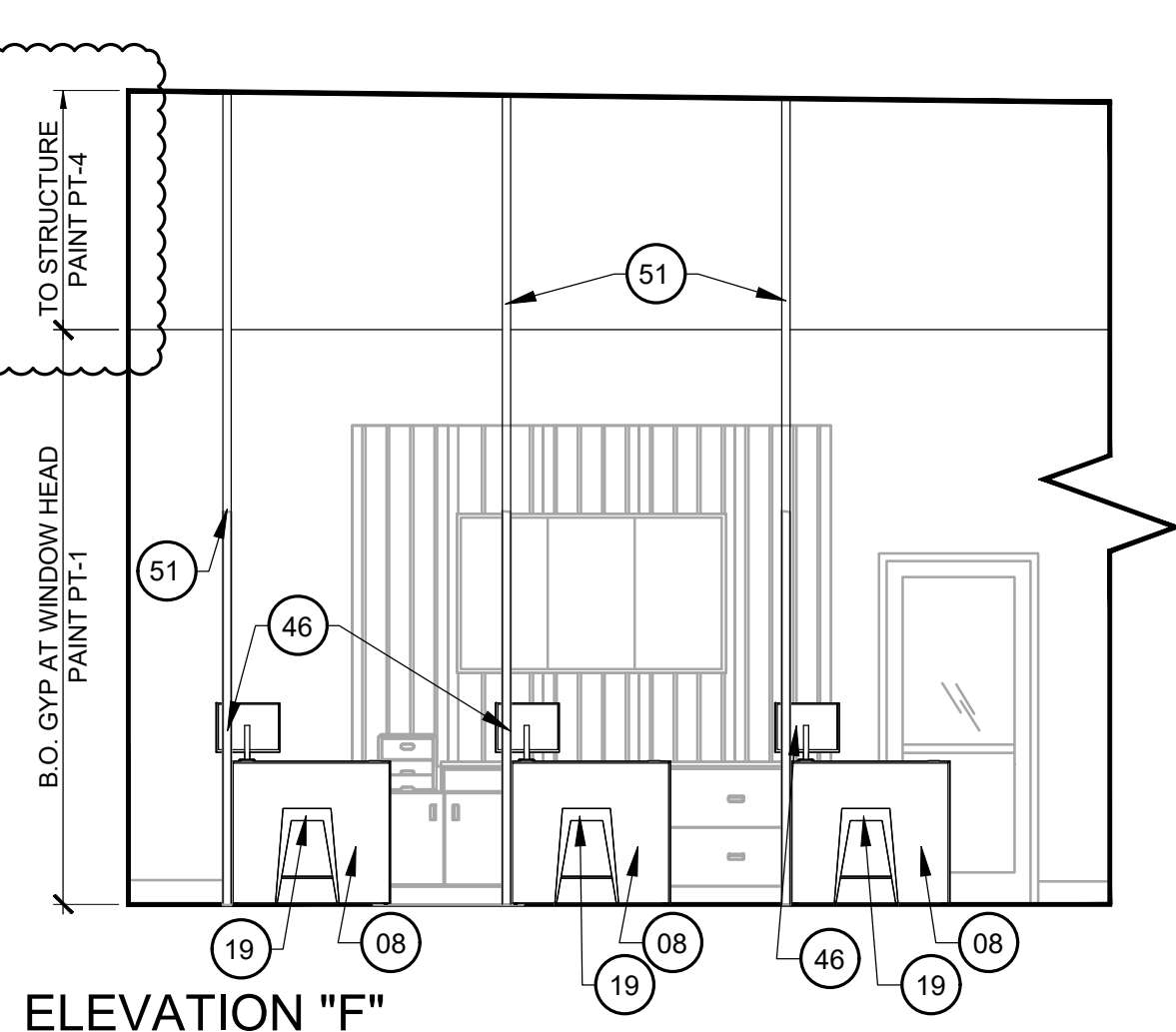


11 F2 ENLARGED SHOWROOM FIXTURE PLAN
SCALE: 1/4"=1'-0"



13 F2 INTERIOR ELEVATIONS
SCALE: 1/4"=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
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



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

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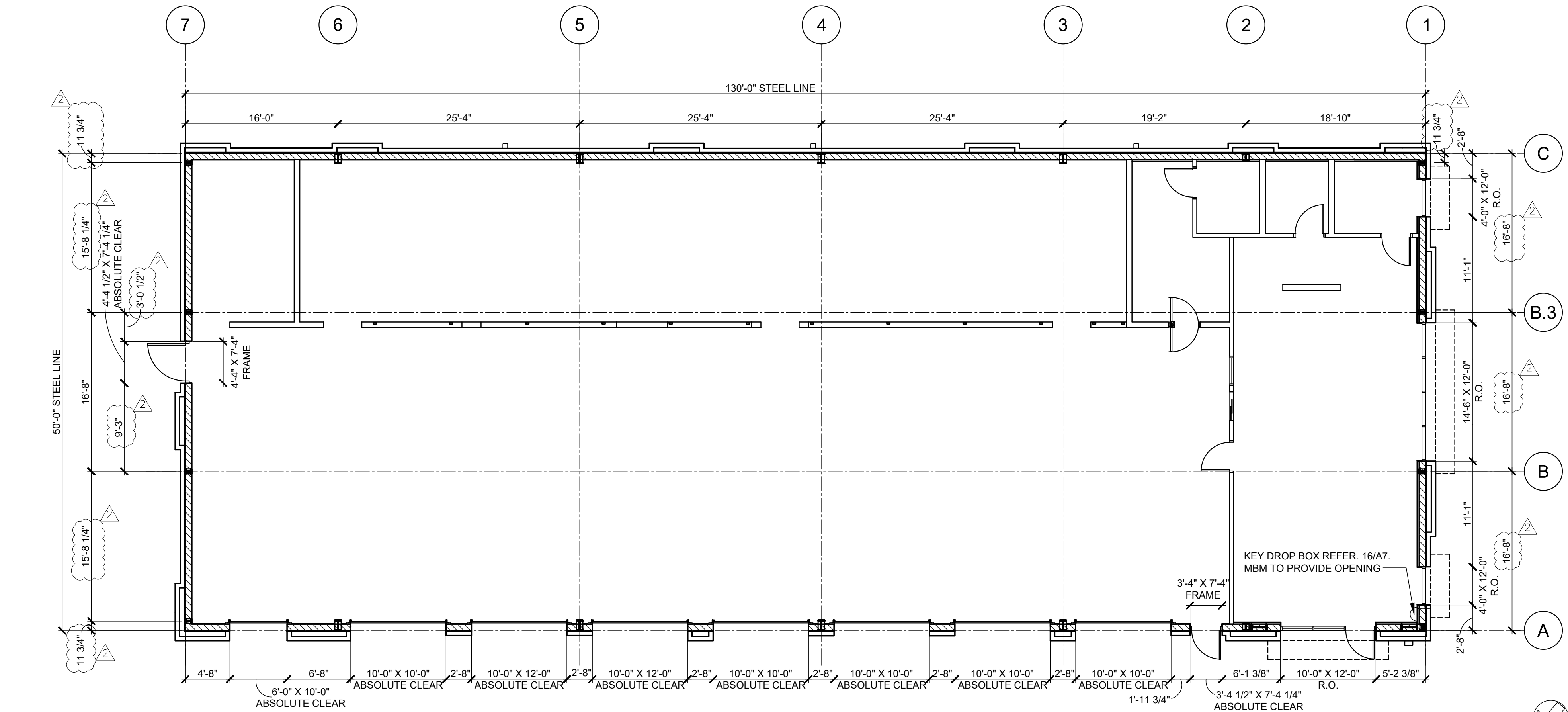
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MITCH GARRETT
NUMBER
A-007541
07/23/2020
Digitally signed by Mitch Garrett
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Garrett
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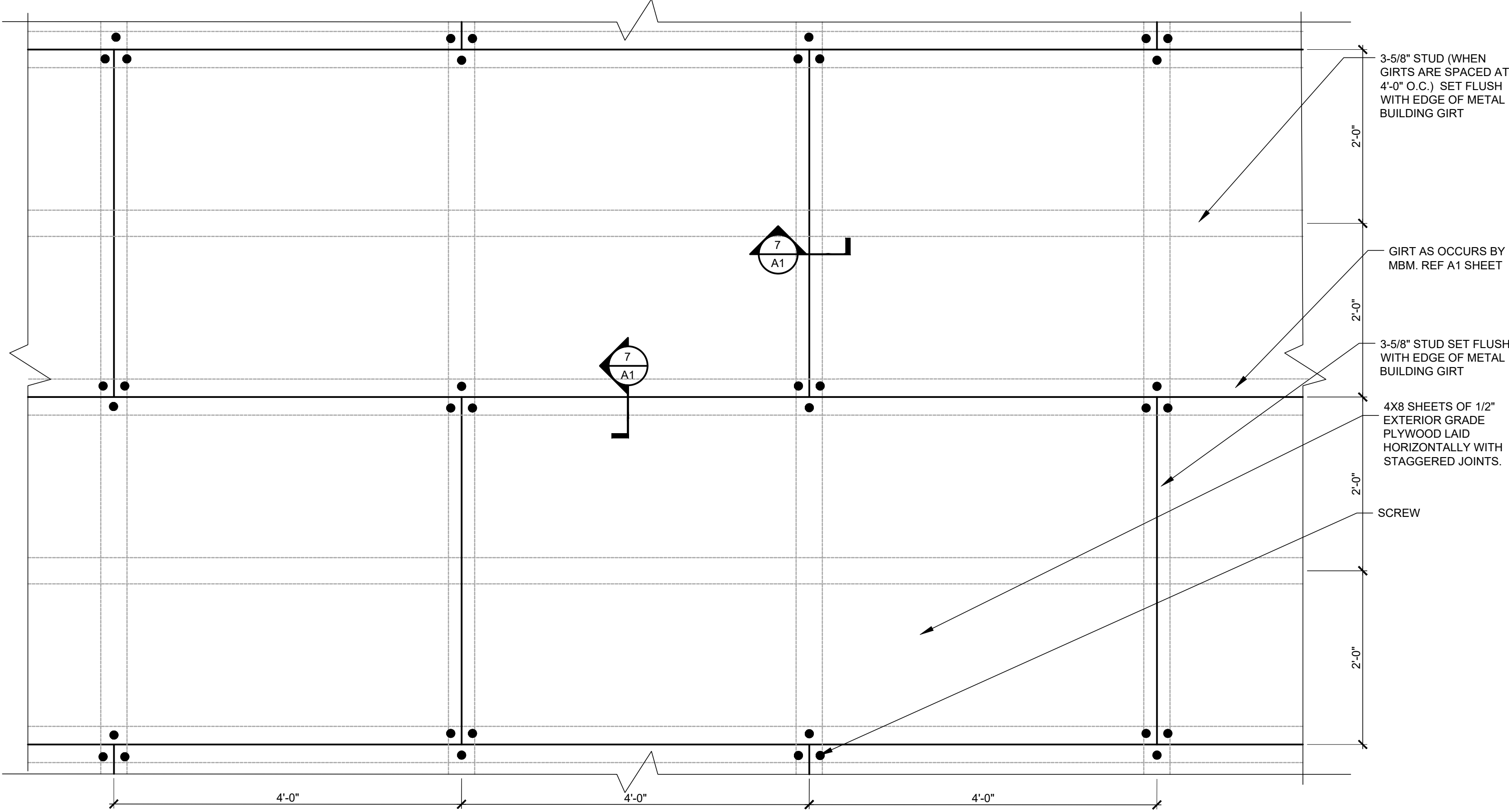
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4 DIGIT NO.: 78C9
AOR PROJECT NUMBER: 1955971
TO PERMIT: DATE: 03/26/2020
TO BID: DATE: ###-##-##
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SHEET TITLE:
SHOWROOM
FIXTURE PLAN
& ELEVATIONS
SHEET NUMBER:
F2



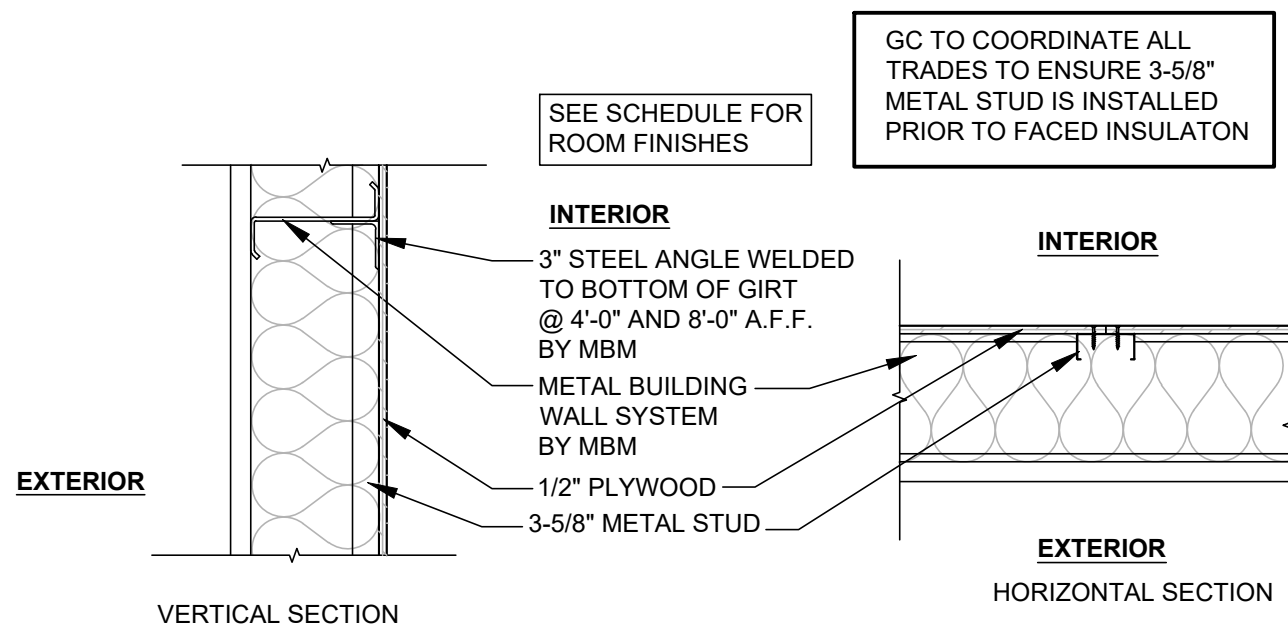
16
A1 FLOOR PLAN
SCALE: 1/8"=1'-0"

6
A1 PLYWOOD FRAMING LAYOUT
SCALE: 1"=1'-0"



SCREW PATTERN:
EACH 4X8 SHEET OF PLYWOOD TO HAVE SCREWS IN ALL
(4) CORNERS AND (1) AT TOP AND BOTTOM AT MIDPOINT
OF EACH SHEET. TOTAL (6) SCREWS PER 4X8 SHEET.

7
A1 PLYWOOD FRAMING DETAIL
SCALE: 1"=1'-0"



GC NOTES AND REQUIREMENTS

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

METAL BUILDING NOTES/REQUIREMENTS

WALL PANELS

- 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.

ROOF PANELS

- METAL BUILDING ROOF PANELS: CFR 24 GALVANIZED
- METAL PARAPET 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 (RTU, EXHAUST FAN, ETC), (14" HIGH CURB, REF MECHANICAL DRAWINGS)
- MBM TO PROVIDE ROOF HATCH AND CURB AND REINFORCING FOR HATCH. CURB TO BE 8" HIGH.

GIRTS

- GIRTS WITH NRC: 8" WIDE METAL BUILDING GIRTS MAXIMUM 2'-0" O.C., TO BE FLUSH WITHIN THE WALL CAVITY
- MBM TO TOE 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 TOE 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.

COLUMNS & BRACING

- COLUMN LINE 2 - ALL COLUMNS IN SHOWROOM TO BE STRAIGHT COLUMNS. COLUMNS IN BATHROOMS TO BE SUPERMARKET COLUMNS THAT START TAPERING AT MINIMUM 10'-0" 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.
- MBM 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 WITHIN GIRTS.

FRAMING AND OPENINGS

- 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 FRAMING 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 F1 AND A1.1 SHEETS FOR LOCATION.
- ALL HOLLOW METAL DOOR OPENINGS TO BE 3'-4 1/2" OR 4'-4 1/2" WIDE BY 7'-4 1/4" 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.

WARRANTIES

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

MISCELLANEOUS

- 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 PUNCH 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/ETC. MUST BE STEEL.
- ON PROJECTS WITH NON-INSULATED PANELS, MBM TO PROVIDE STRAPS/CLIPS FOR THE INSULATION IN THE WALLS.

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STATE OF MISSOURI
MITCHELL GARRETT
NUMBER
A-007541
07/23/2020

Mitchell Garrett
MITCHELL RAY GARRETT - ARCHITECT
MOP A-007541

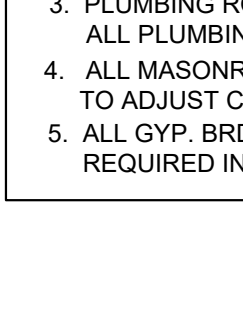
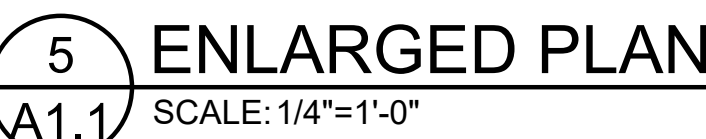
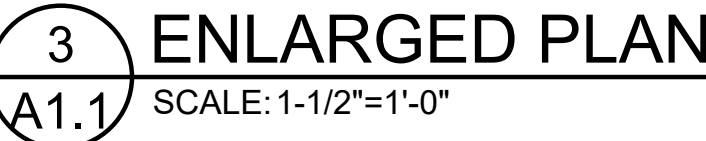
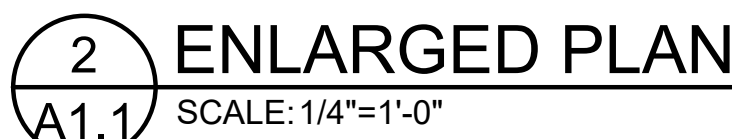
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6 DIGIT NO.: 906983
4 DIGIT NO.: 78C9

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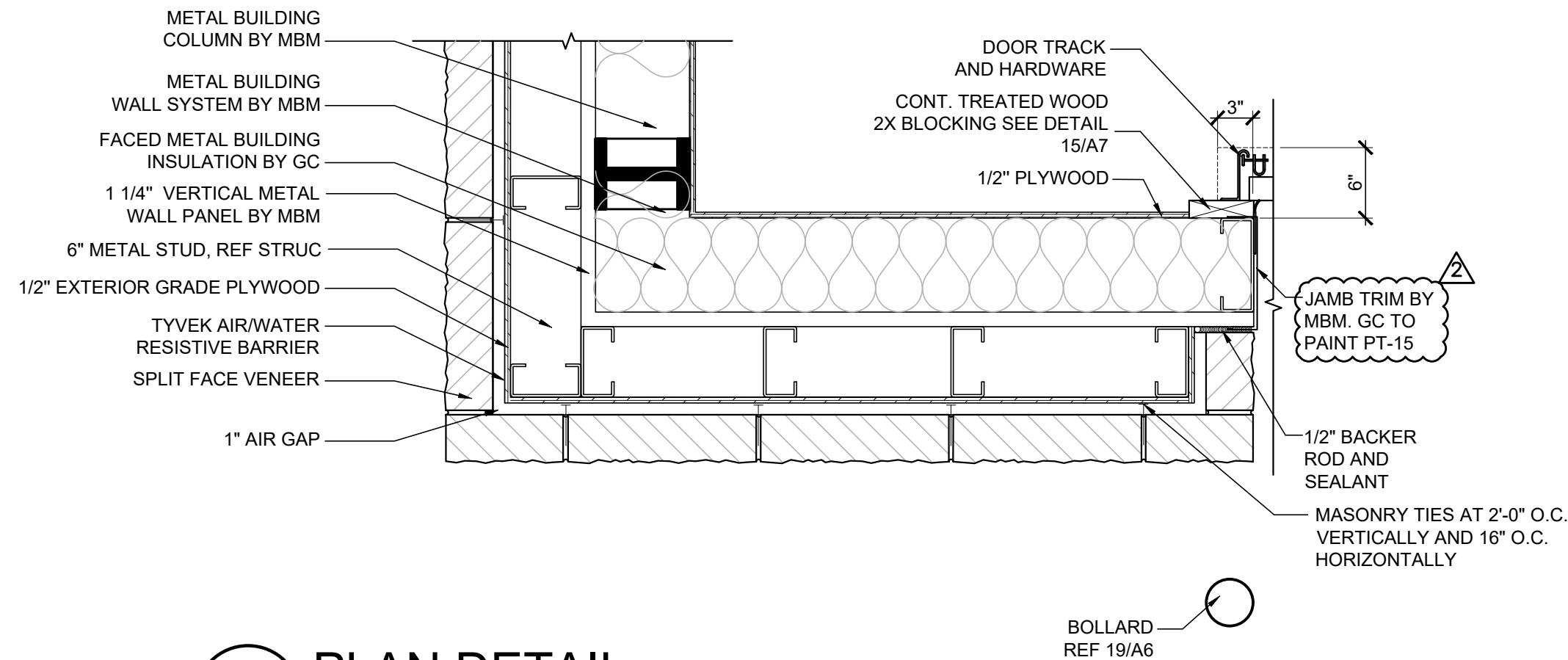
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PLAN & NOTES

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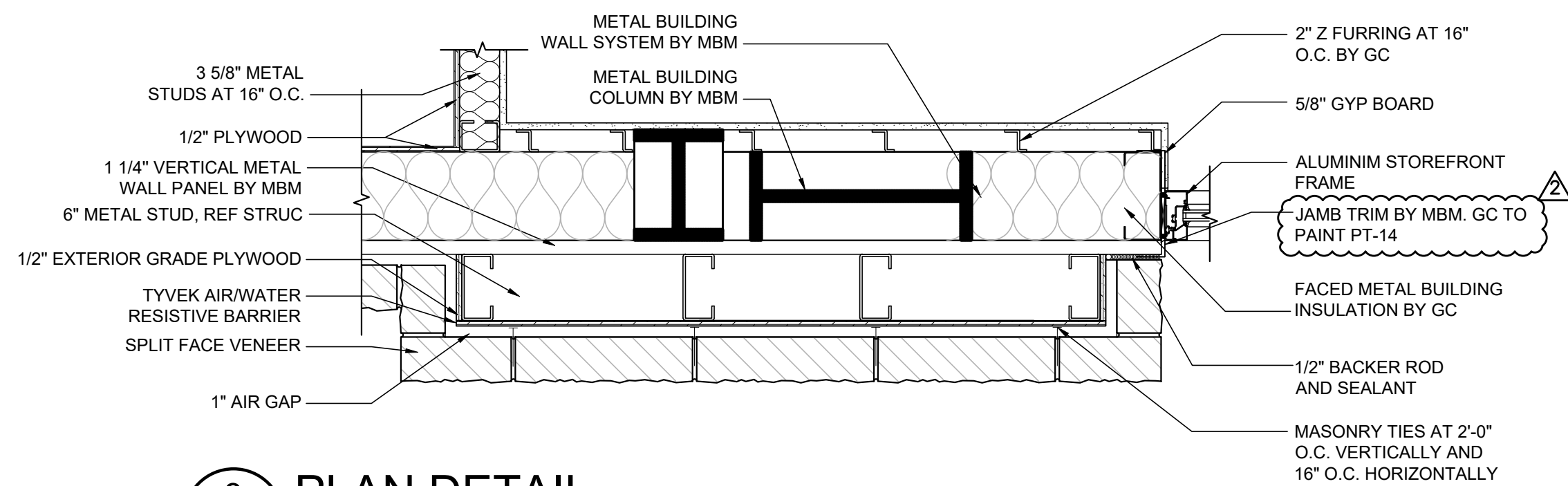


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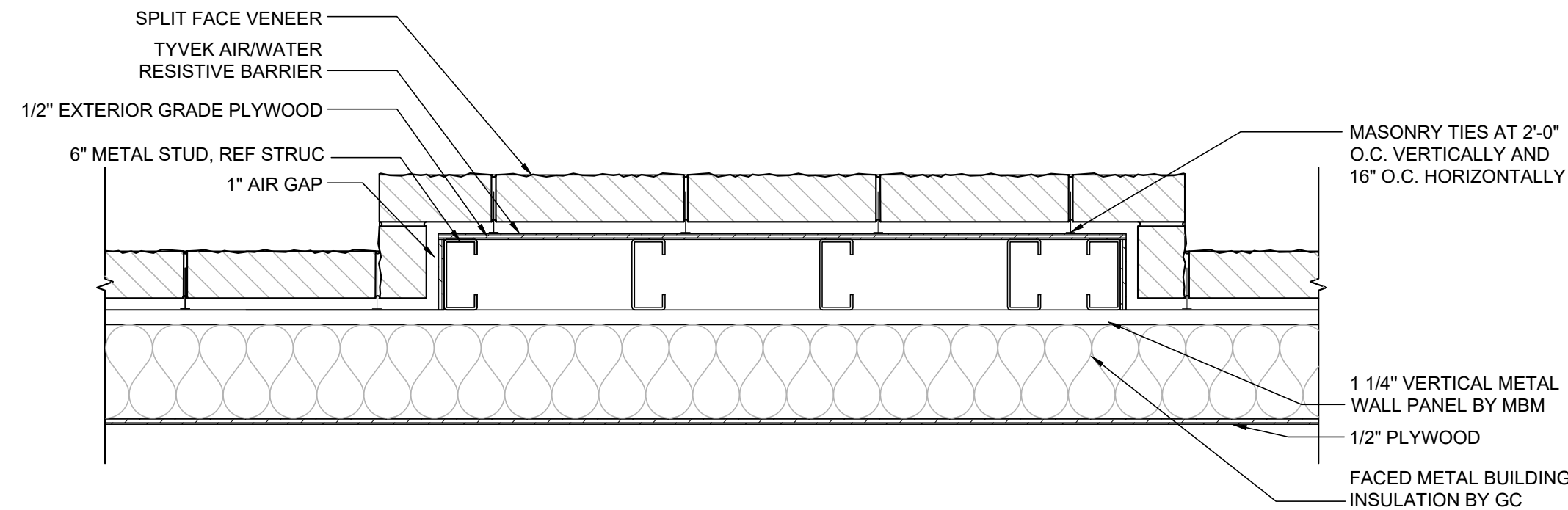
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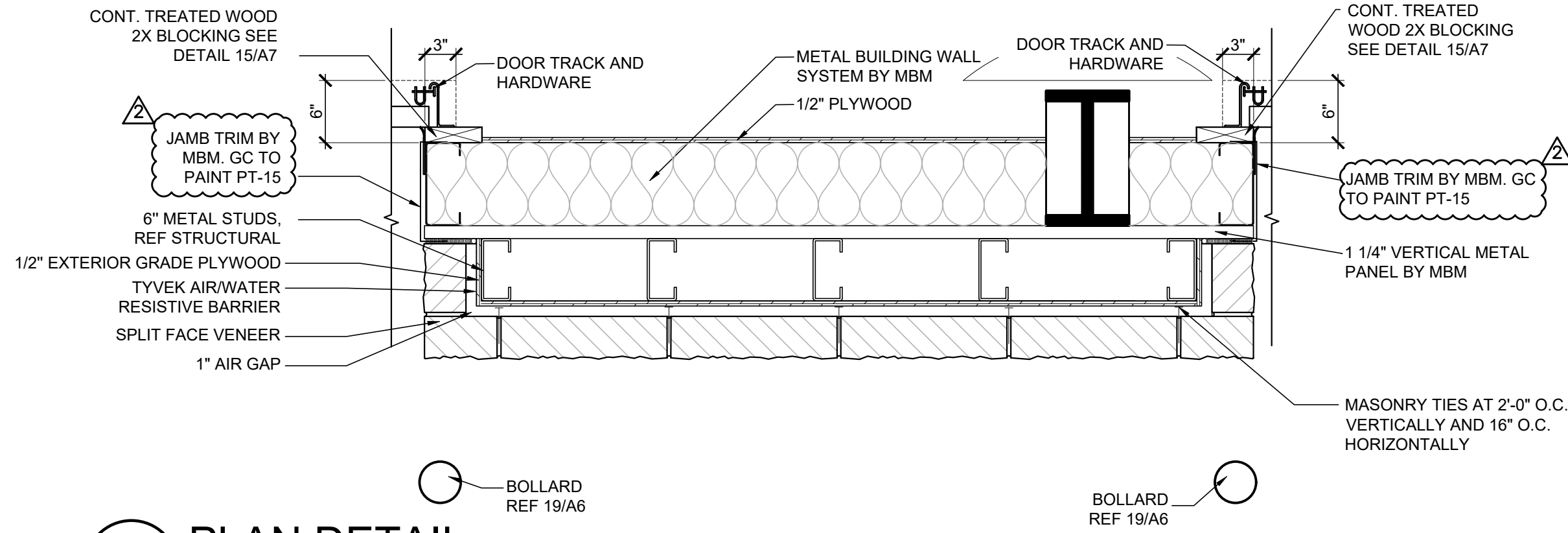
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A1.2 SCALE: 1"=1'-0"



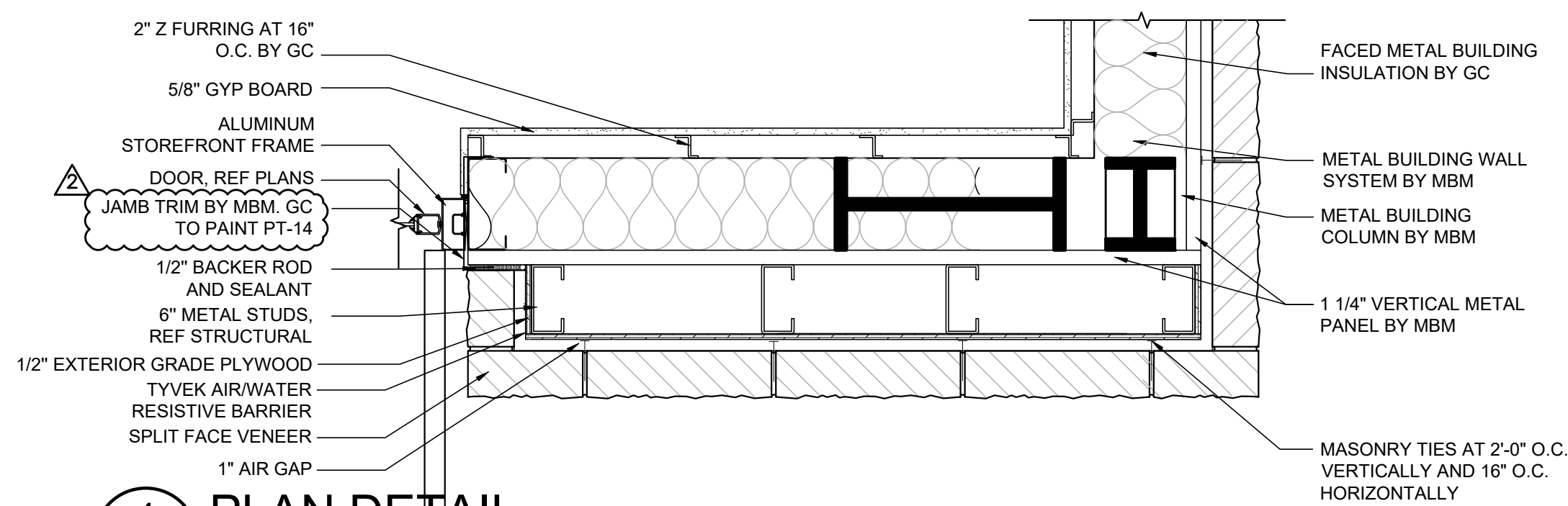
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A1.2 SCALE: 1"=1'-0"



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"

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07/23/2020

Digitally signed by Mitch Garrett
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c=US, ou=SGA Design Group, O=SGA Design Group, OU=Lee's Summit, MO
Garrett
Date: 2020.07.23 12:47:24-0500

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MO# A-007541

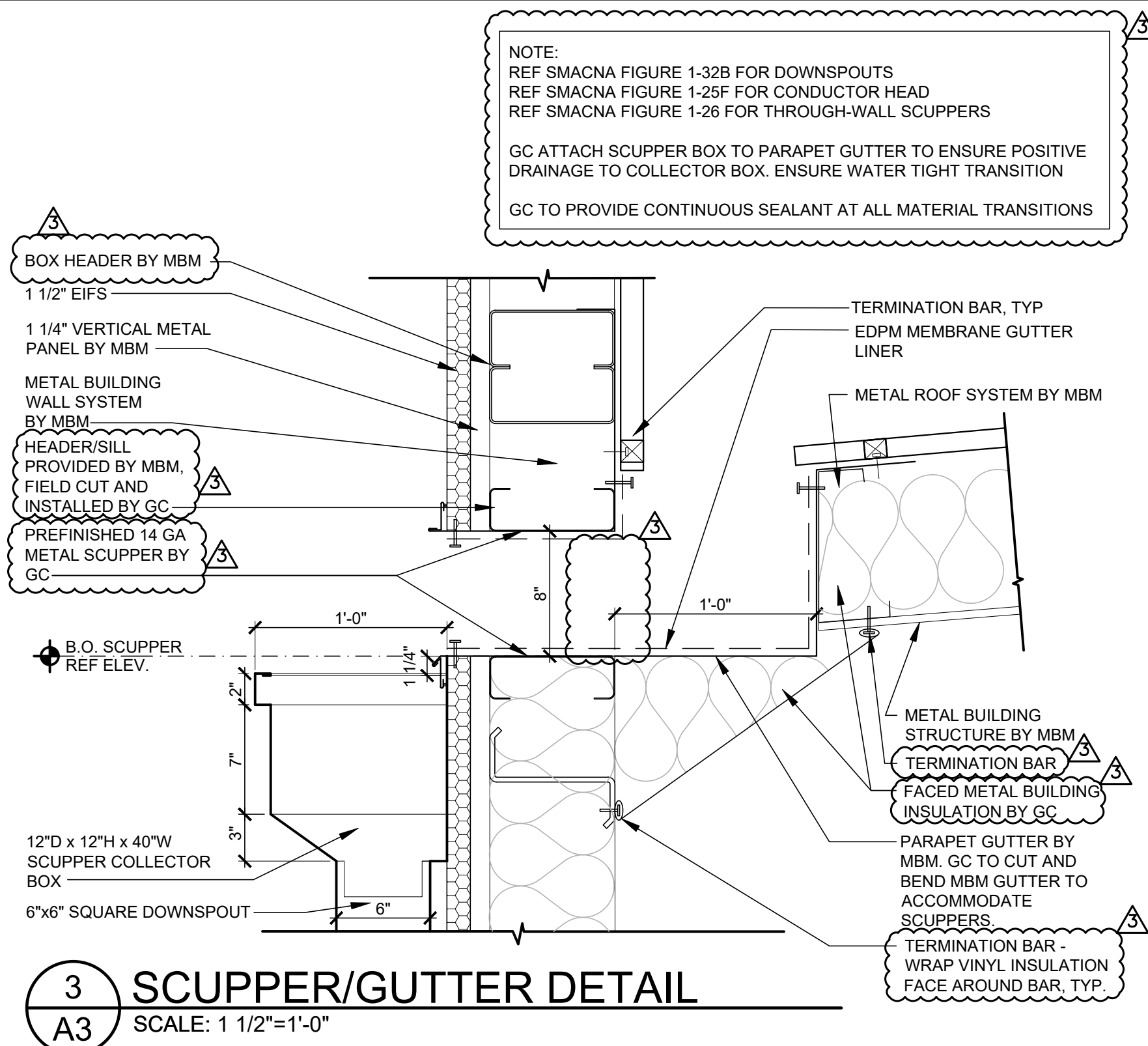
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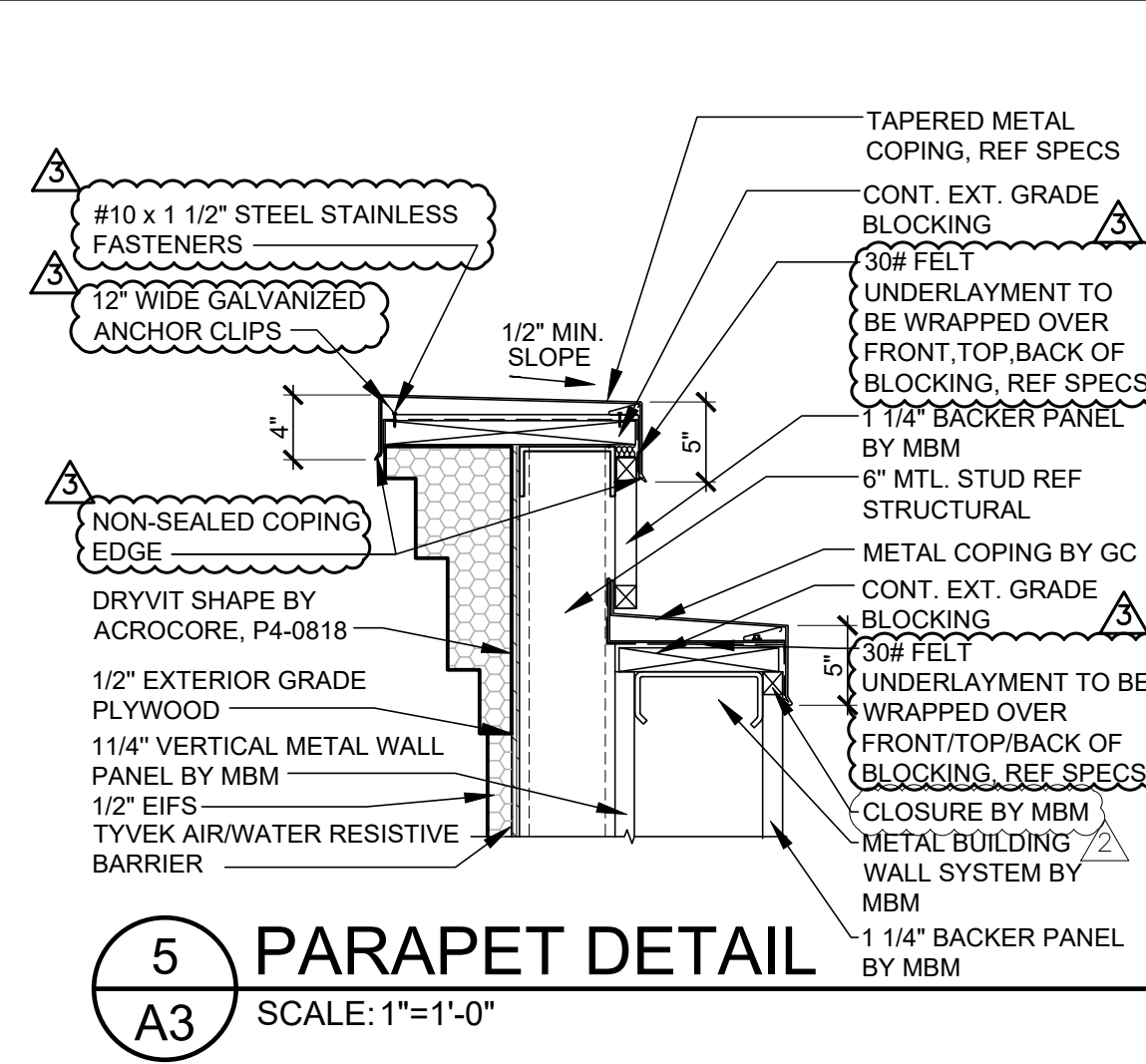
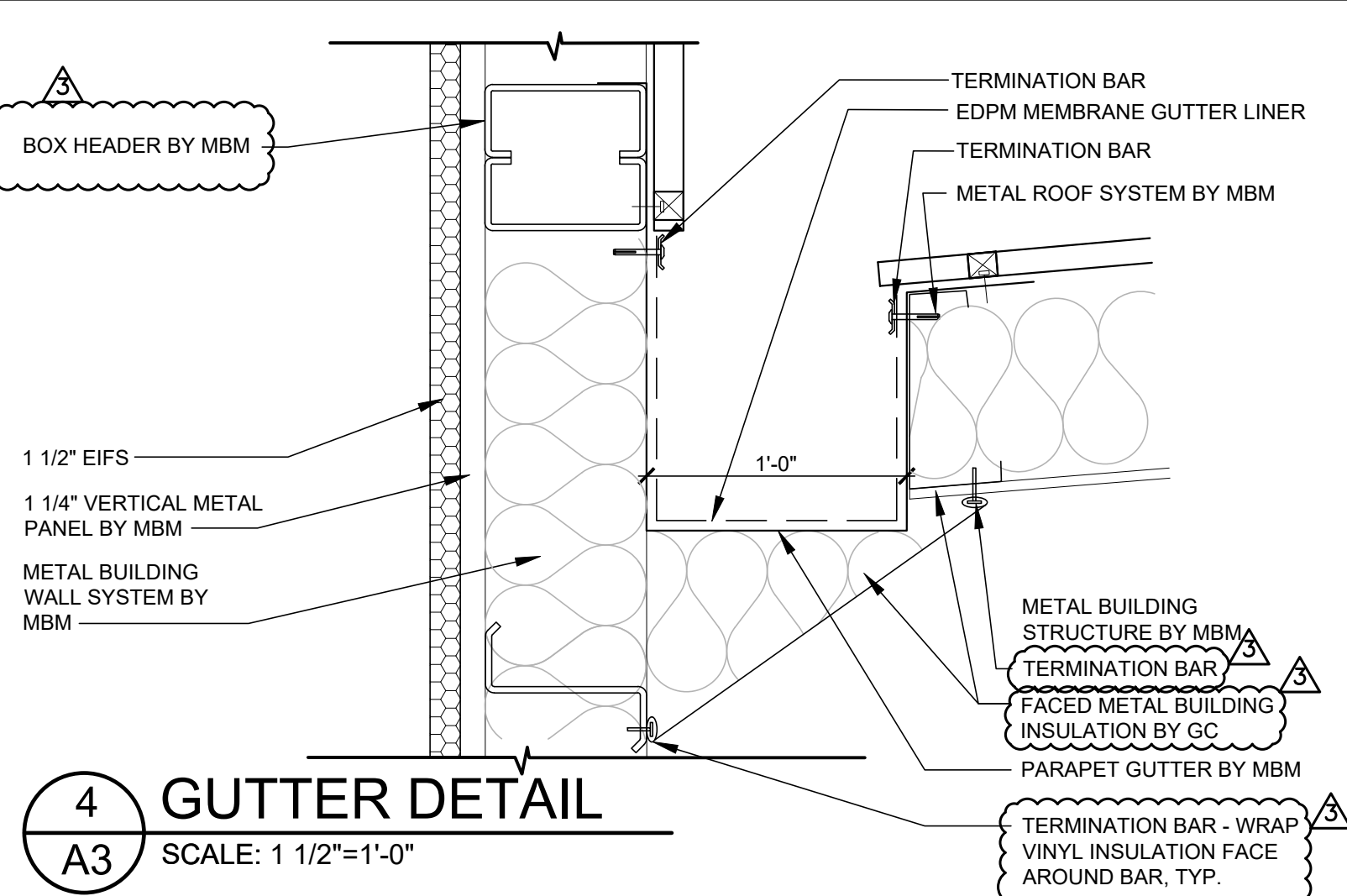
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PLAN DETAILS

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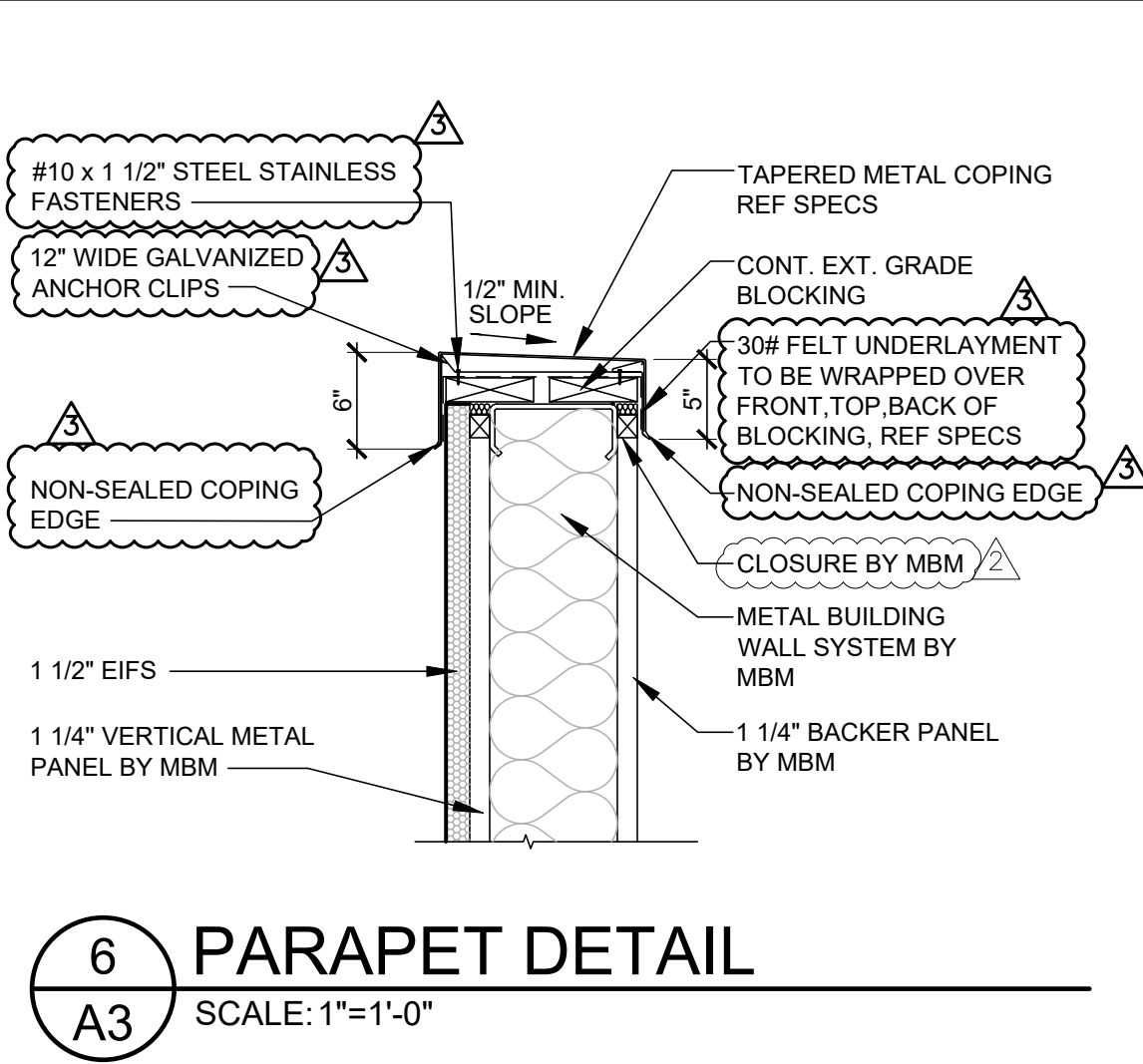
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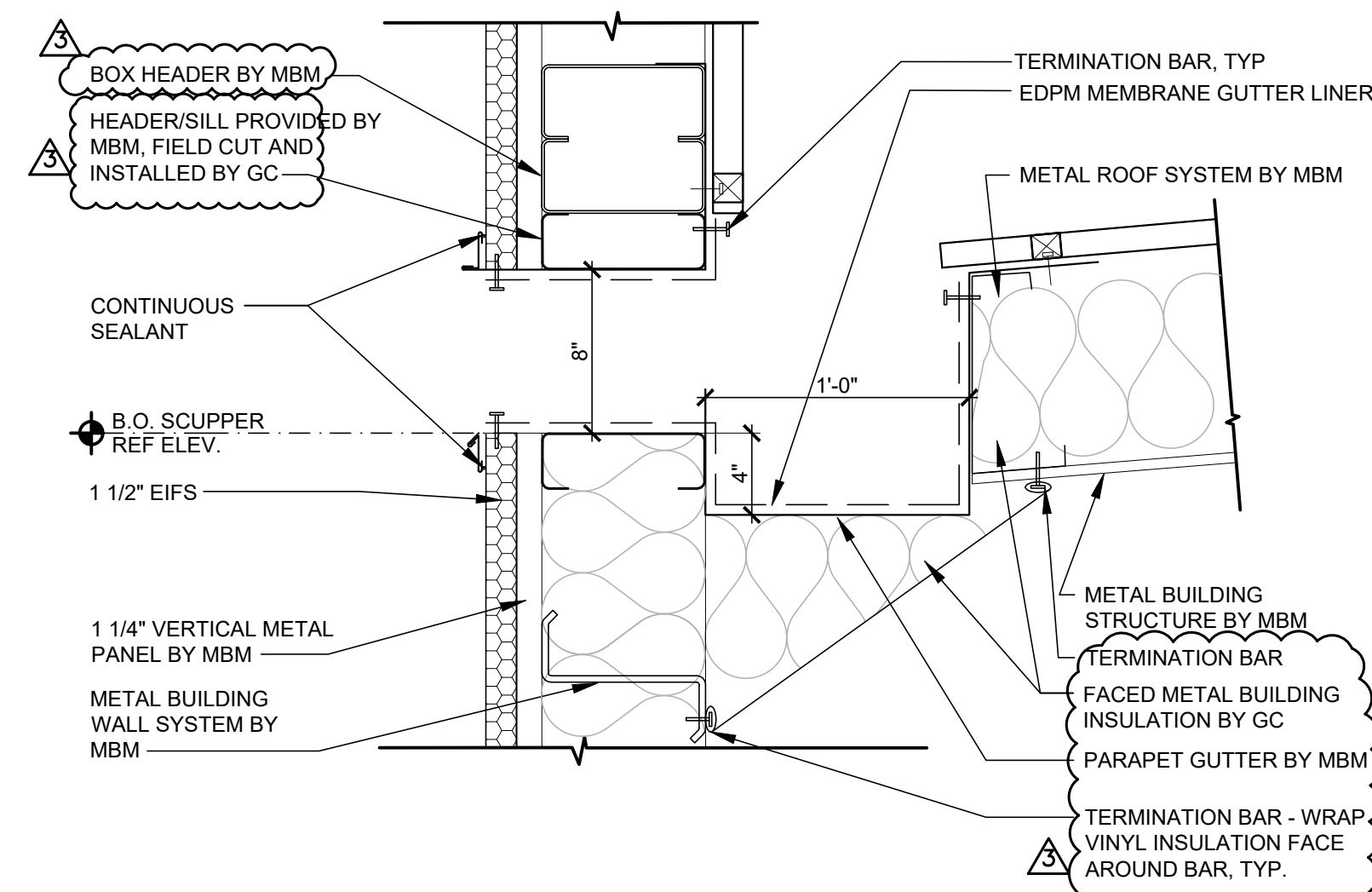
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SCALE: 1 1/2"=1'-0"



6 PARAPET DETAIL
SCALE: 1"=1'-0"

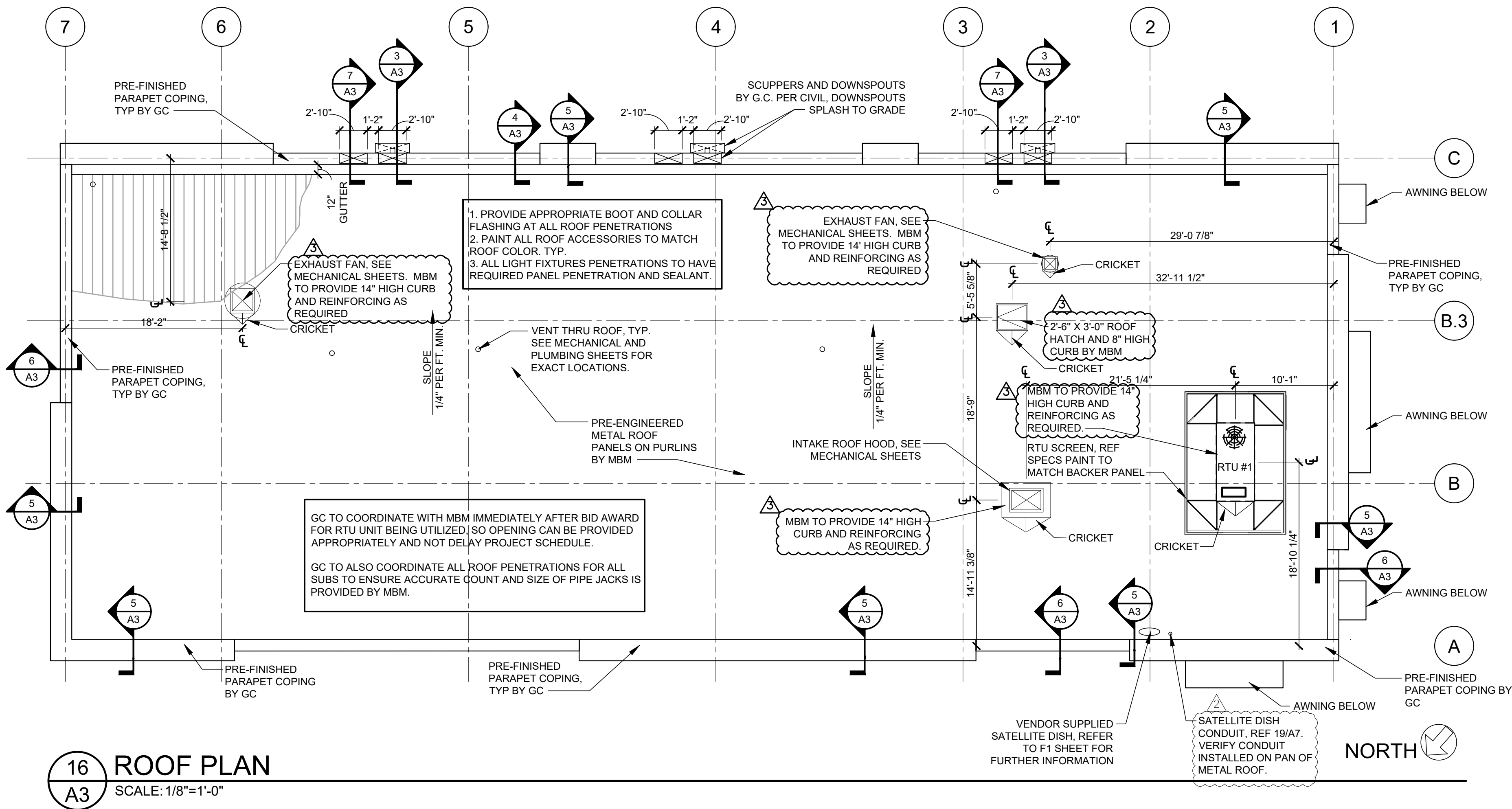


NOTE:
REF SMACNA FIGURE 1-30 FOR OVERFLOW SCUPPERS
GC ATTACH SCUPPER BOX TO PARAPET GUTTER TO ENSURE POSITIVE DRAINAGE. ENSURE WATER TIGHT TRANSITION
GC TO PROVIDE CONTINUOUS SEALANT AT ALL MATERIAL TRANSITIONS



7 OVERFLOW SCUPPER DETAIL
SCALE: 1 1/2"=1'-0"

GC TO PROVIDE "PIPE PROP" APS-1 WITH SADDLE SUPPORT FOR ALL GAS PIPING ON ROOF. SUPPORT TO BE INSTALLED MINIMUM EVERY 2'-0" OC. INSTALL TO ROOF WITH MASTIC PER ROOFING MANUFACTURER'S RECOMMENDATION. INSTALL SUPPORT PER MANUFACTURER'S INSTALLATION REQUIREMENTS.



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

ROOF DRAINAGE CALCULATIONS PRIMARY AND SECONDARY DRAINS Based on 2018 IPC table 1106.3, 6" downspouts			
ZONE	AREA (SQ FT)	ACTUAL GPM CAPACITY	CAPACITY OF 6" DOWNSPOUT IN GPM PER TABLE 1106.2
ZONE 1	2221	272	538
ZONE 2	2221	252	538
ZONE 3	2221	275	538

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ESTIMATION OF RISK:
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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
07/23/2020
Digitally signed by Mitchell Garrett
DN: cn=Garrett, email=garrett@sga-designgroup.com, c=US, ou=SGA Design Group, ou=Oklahoma
Garrett Date: 2020.07.23 10:47:25-0500

Mitchell Garrett
MITCHELL RAY GARRETT - ARCHITECT
MOP A-007541

ISSUE BLOCK		
1	04/16/20	ADD #1
2	06/30/20	CB#1
3	07/23/20	IFC

PROPERTY NO.: 160085
6 DIGIT NO.: 906983
4 DIGIT NO.: 78C9
AOR PROJECT NUMBER: 1955971
TO PERMIT: DATE: 03/26/2020
TO BID: DATE: ###-##-##
KMP
SHEET TITLE:
ROOF PLAN & DETAILS
SHEET NUMBER:
A3

1. PROVIDE DRIP CAP OVER ALL MAN DOORS SEE DETAIL 1C/A8
2. PAINT ALL EXPOSED LINTELS & JAMBS TO MATCH ADJACENT BUILDING COLOR.
3. SEE ELECTRICAL FOR SIGNAGE OPERATING TIME SIGNAGE
4. INSTALLATION OF BUILDING SIGNS AND STREET SIGN BY SIGN VENDOR, G.O. TO PROVIDE WIRING, REFER ELECTRICAL.
5. REFER SHEET A8 FOR PAINT COLOR KEY.
6. ANY EXTERIOR CONSTRUCTION JOINT, EXPANSION JOINT, CRACK OR ABRUPTLY DIFFERENTIAL OR SAME MATERIALS MUST HAVE APPROPRIATE PRODUCT APPLIED TO PROVIDE AN AIR, MOISTURE, AND WATER TIGHT EXTERIOR. REFER TO SPECIFICATION SECTION 079200 FOR PRODUCTS. SIGNAGE INDICATED ON ELEVATIONS IS INTENDED TO INDICATE APPROXIMATE SIGN SIZE AND QUANTITY OF PROPOSED BUILDING SIGNAGE. REFER TO SIGNAGE PERMIT DRAWINGS FOR ACCURATE SIGNAGE INFORMATION.

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o=SIGA Design Group,
cn=Mitchel Garrett
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MO# A-007541

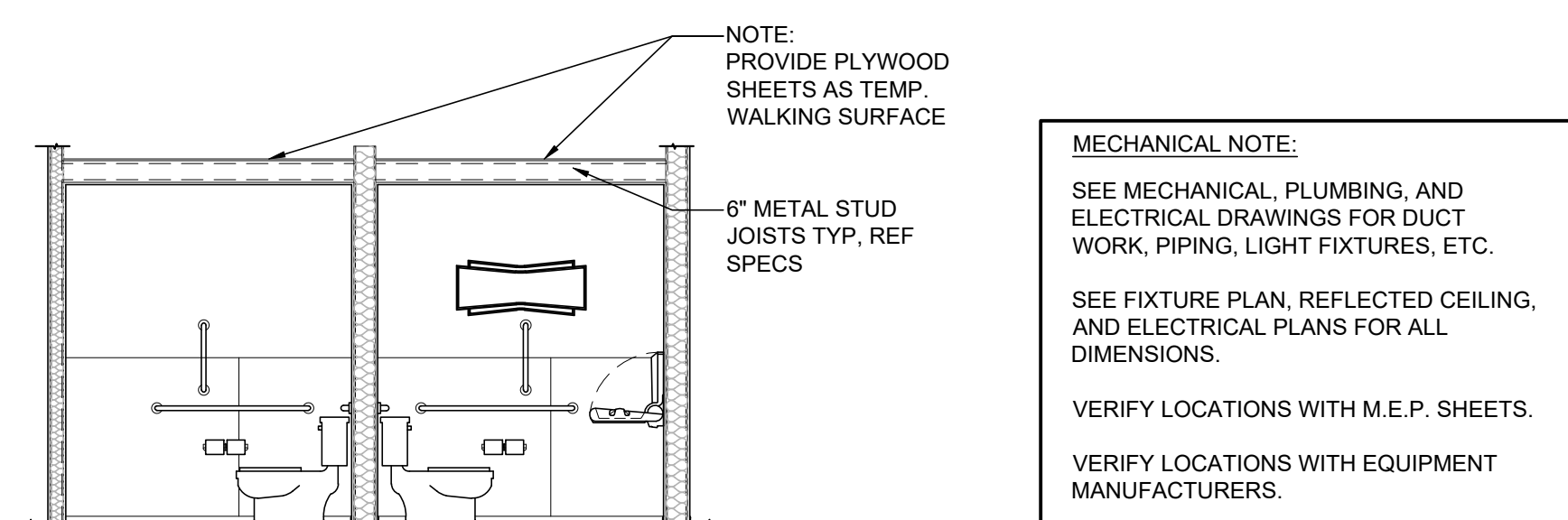
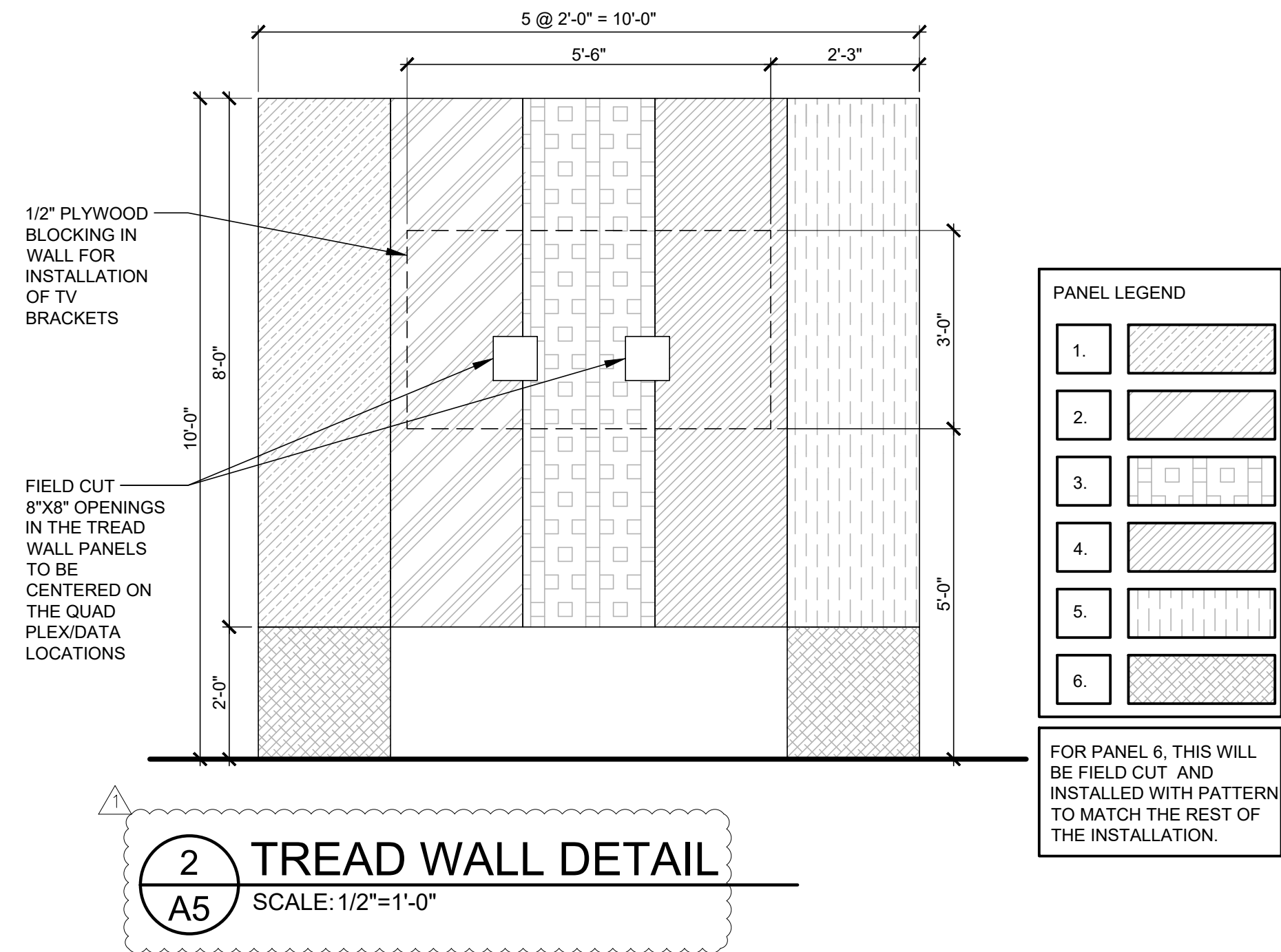
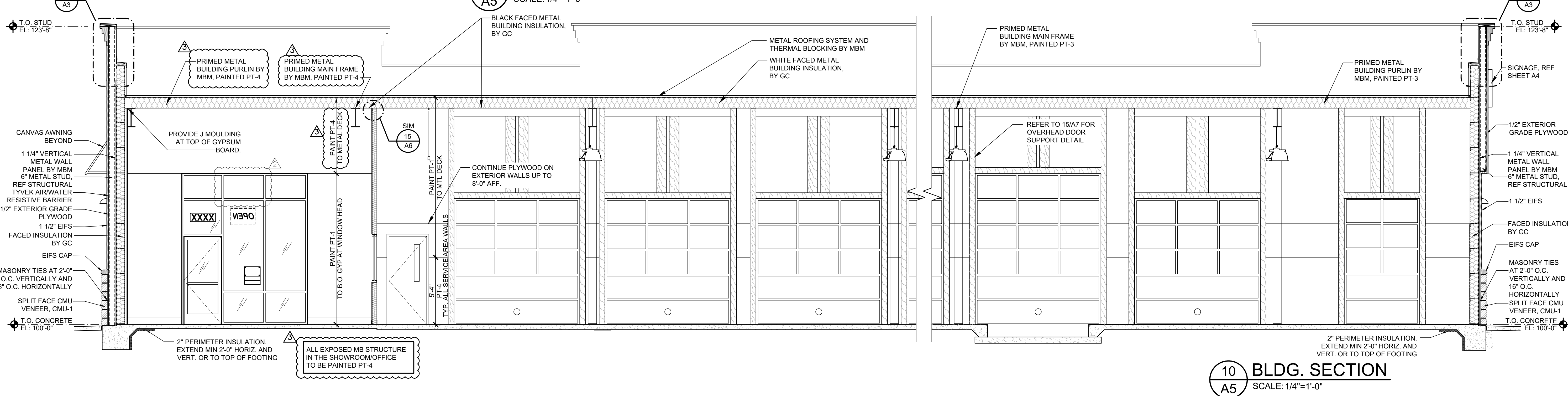
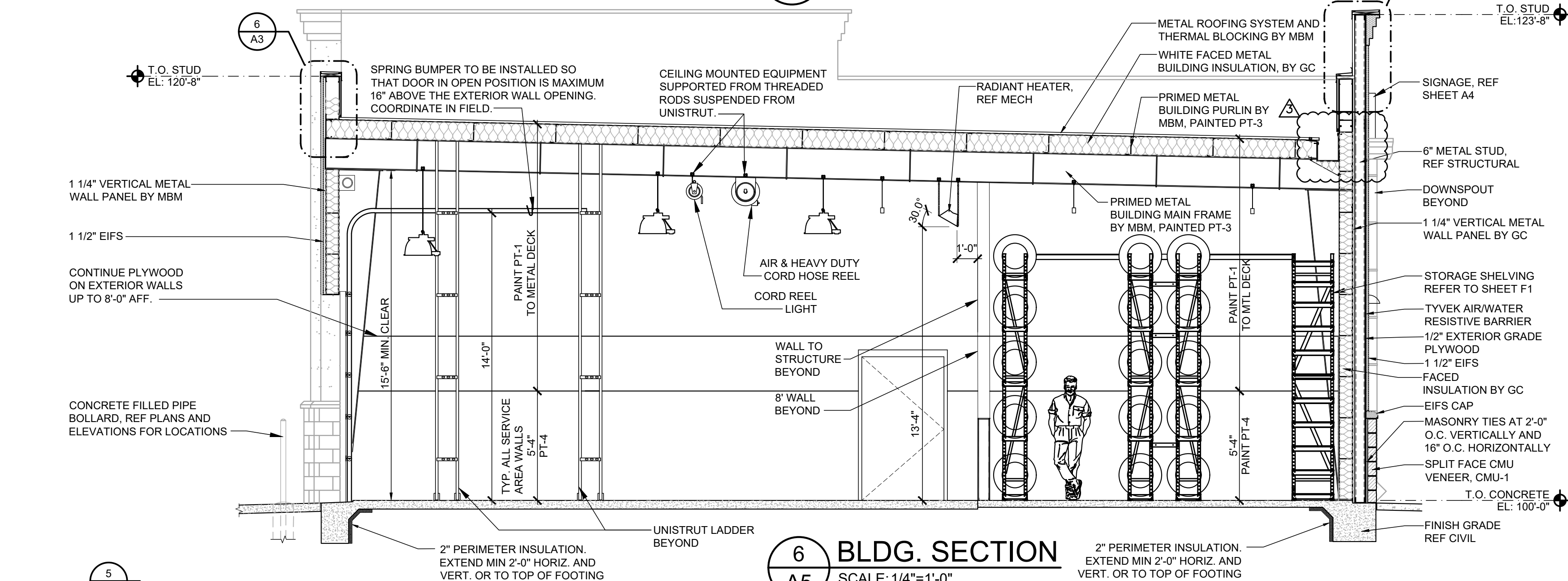
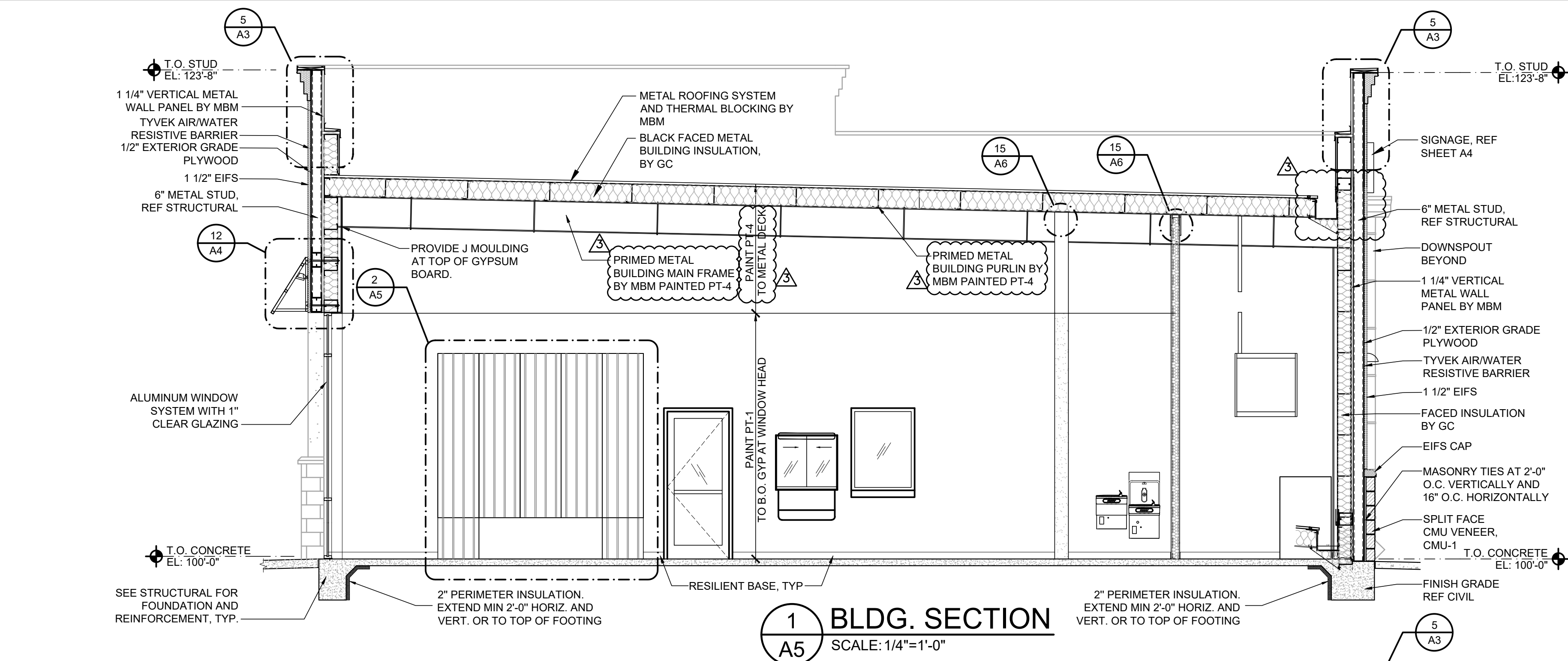
PROPERTY NO.: 160085
DIGIT NO.: 906983
DIGIT NO.: 78C9
OR PROJECT NUMBER: 1955B71
NO PERMIT: DATE: 03/26/202
NO BID: DATE: ##-##-##

SHEET TITLE:
**EXTERIOR
ELEVATIONS
& DETAILS**

SHEET NUMBER:

A4 SCALE: 1/4"=1'-0"

JUL 23, 2020 - 8:43am - USER: dierch
P:\BRO Projects\Lee's Summit MO - 1955B71 - GBT\B - Drawings & Design\Building Drawings\10_FCAC_ER-A05.dwg



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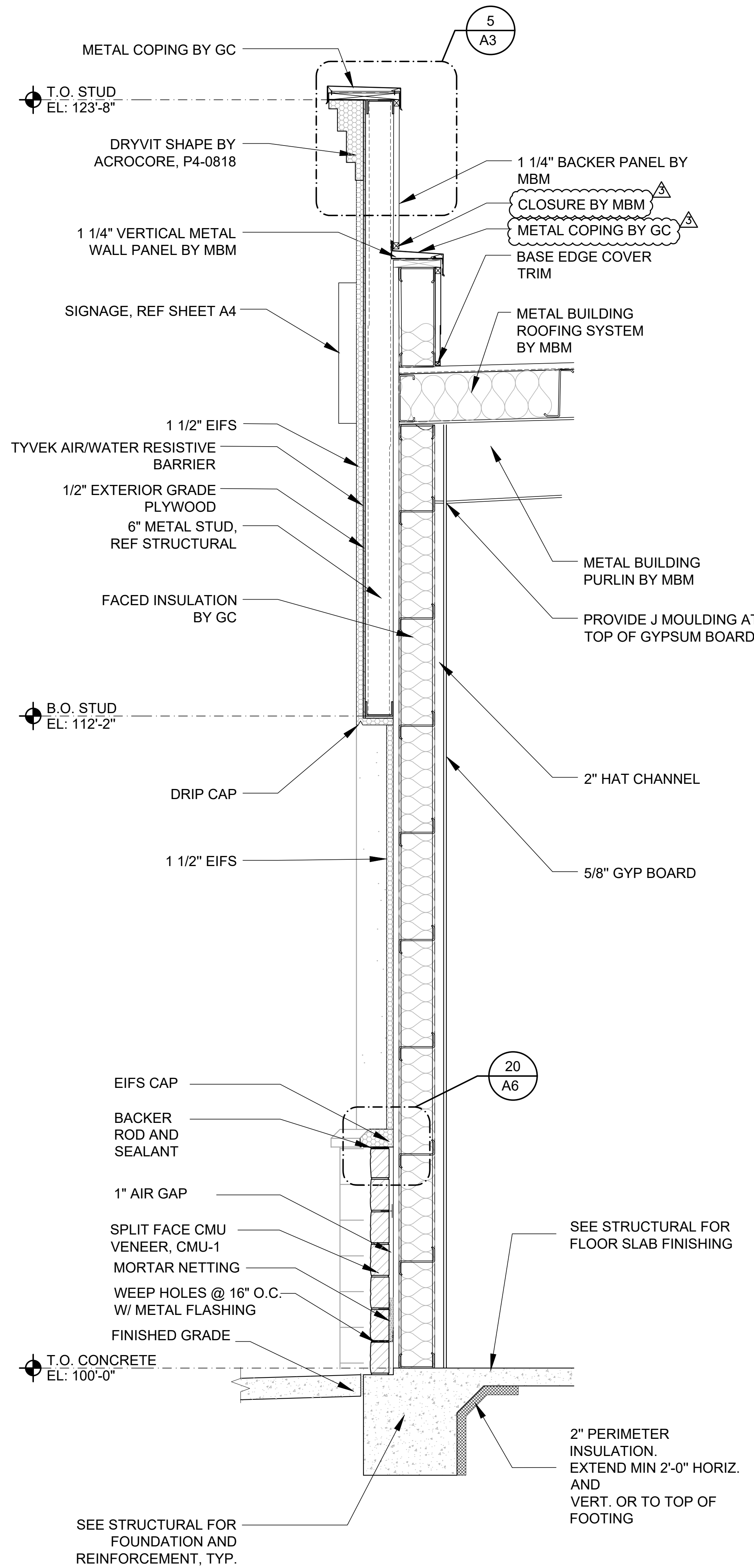
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MITCHELL GARRETT
NUMBER A-007541
07/23/2020
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DN: cn= Mitchell Garrett, o=SGA Design Group, ou=Architecture
Mitchell Garrett
MITCHELL RAY GARRETT - ARCHITECT
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ISSUE BLOCK	
1	04/16/20 ADD #1
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3	07/23/20 IFC

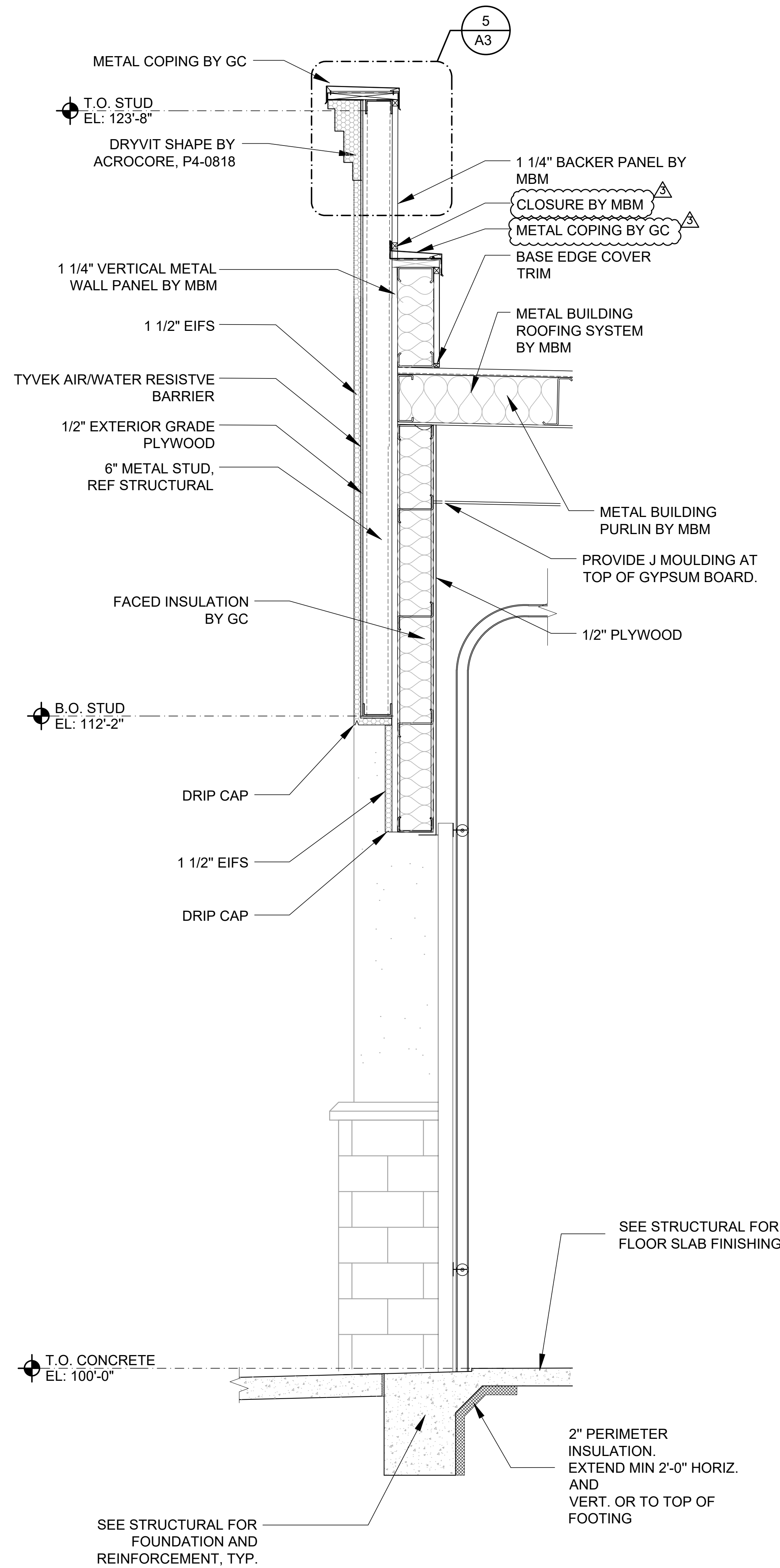
PROPERTY NO.:	160085
6 DIGIT NO.:	906983
4 DIGIT NO.:	78C9
AOR PROJECT NUMBER:	1955B71
TO PERMIT:	DATE: 03/26/2020
TO BID:	DATE: ###-##-##

SHEET TITLE:
BUILDING SECTIONS & DETAILS
SHEET NUMBER:
A5

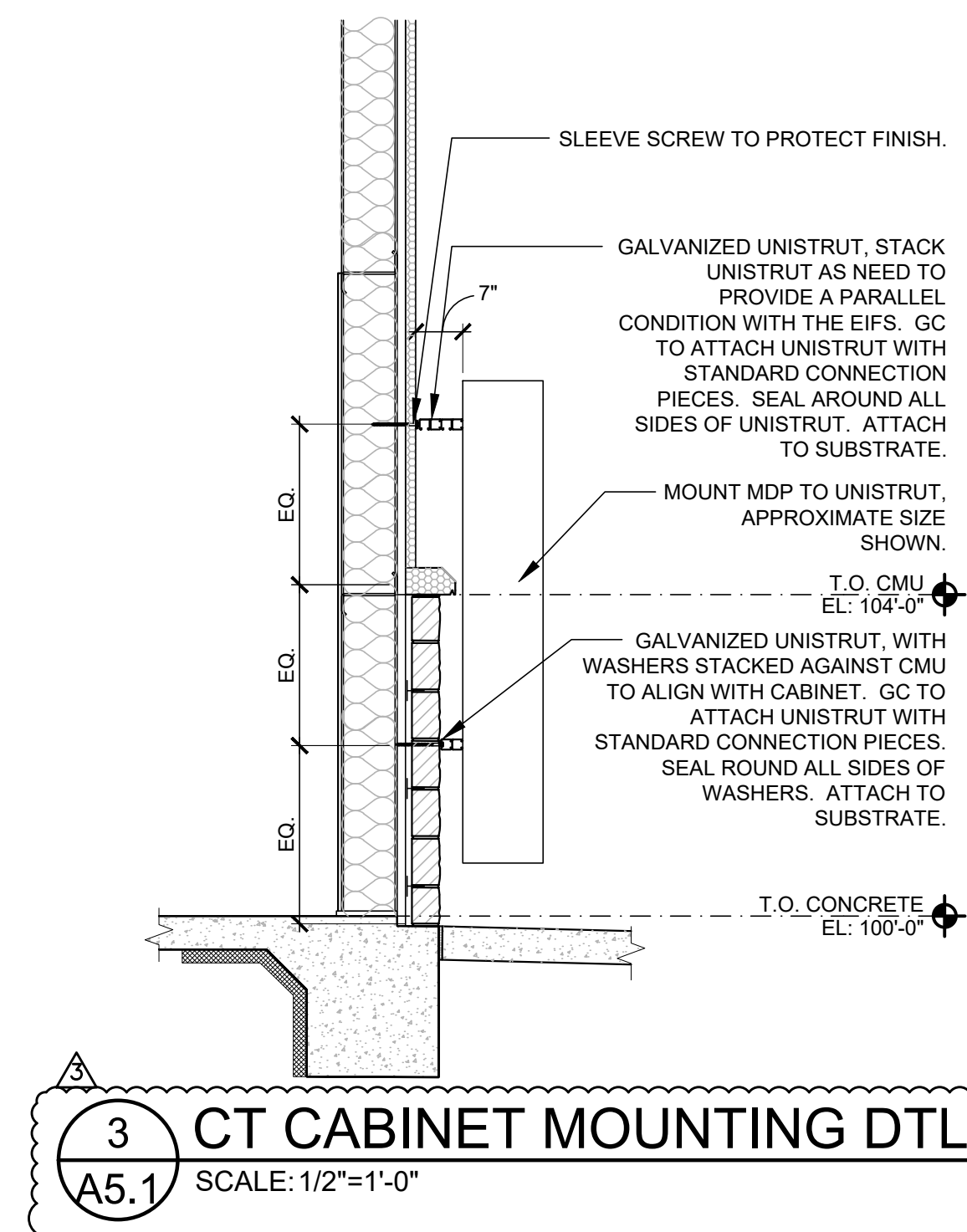
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1 WALL SECTION
A5.1 SCALE: 1/2"=1'-0"



2 WALL SECTION
A5.1 SCALE: 1/2"=1'-0"



3 CT CABINET MOUNTING DTL
A5.1 SCALE: 1/2"=1'-0"

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Δ	07/23/20	IFC

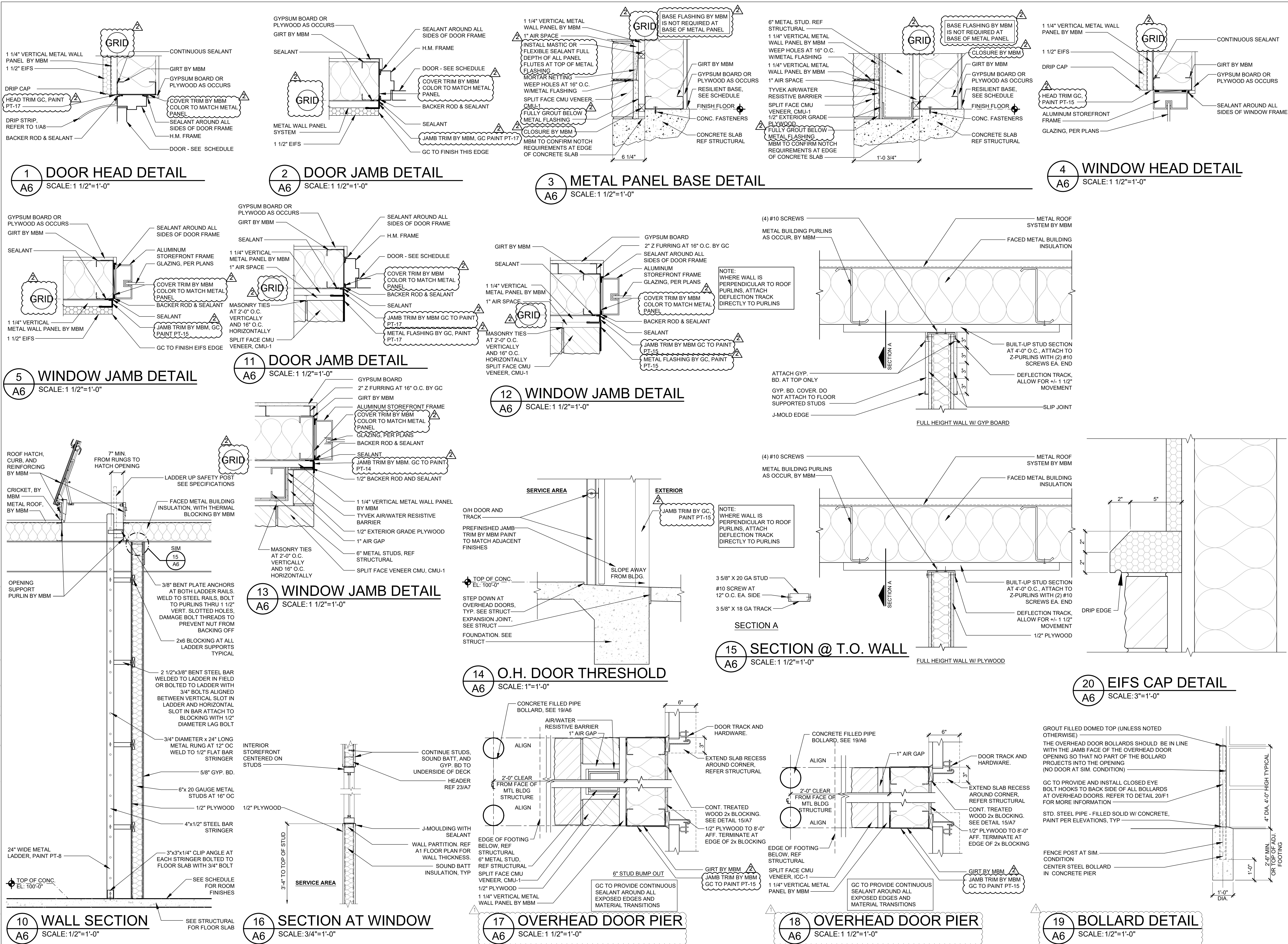
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6 DIGIT NO.: 906983
4 DIGIT NO.: 78C9

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

SHEET TITLE:
WALL
SECTIONS

SHEET NUMBER:
A5.1

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STATE OF MISSOURI
MITCH GARRETT
NUMBER
A-007541
ARCHITECT

07/23/2020

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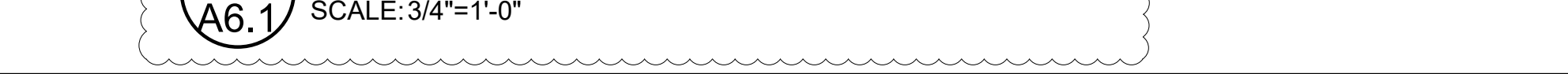
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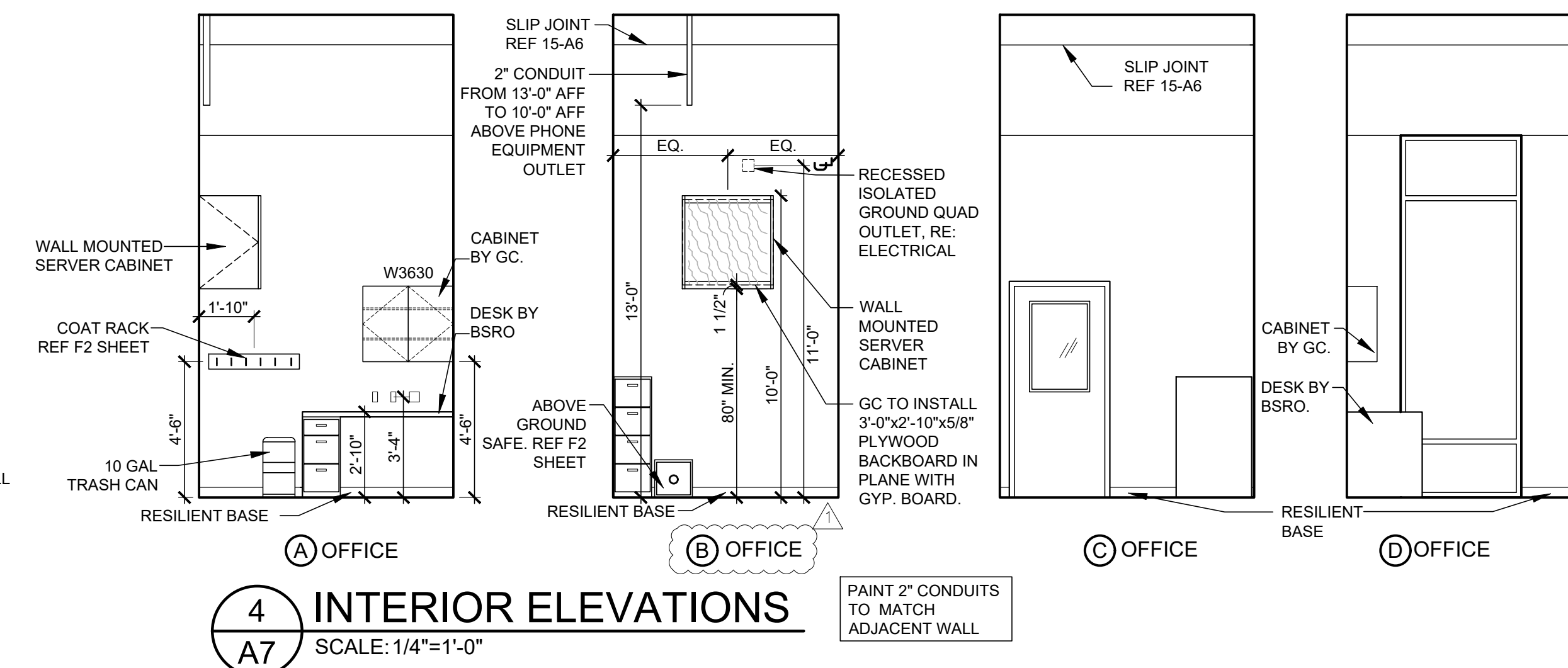
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1	04/16/20		
2	06/30/20	CB#1	
3	07/23/20	IFC	

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

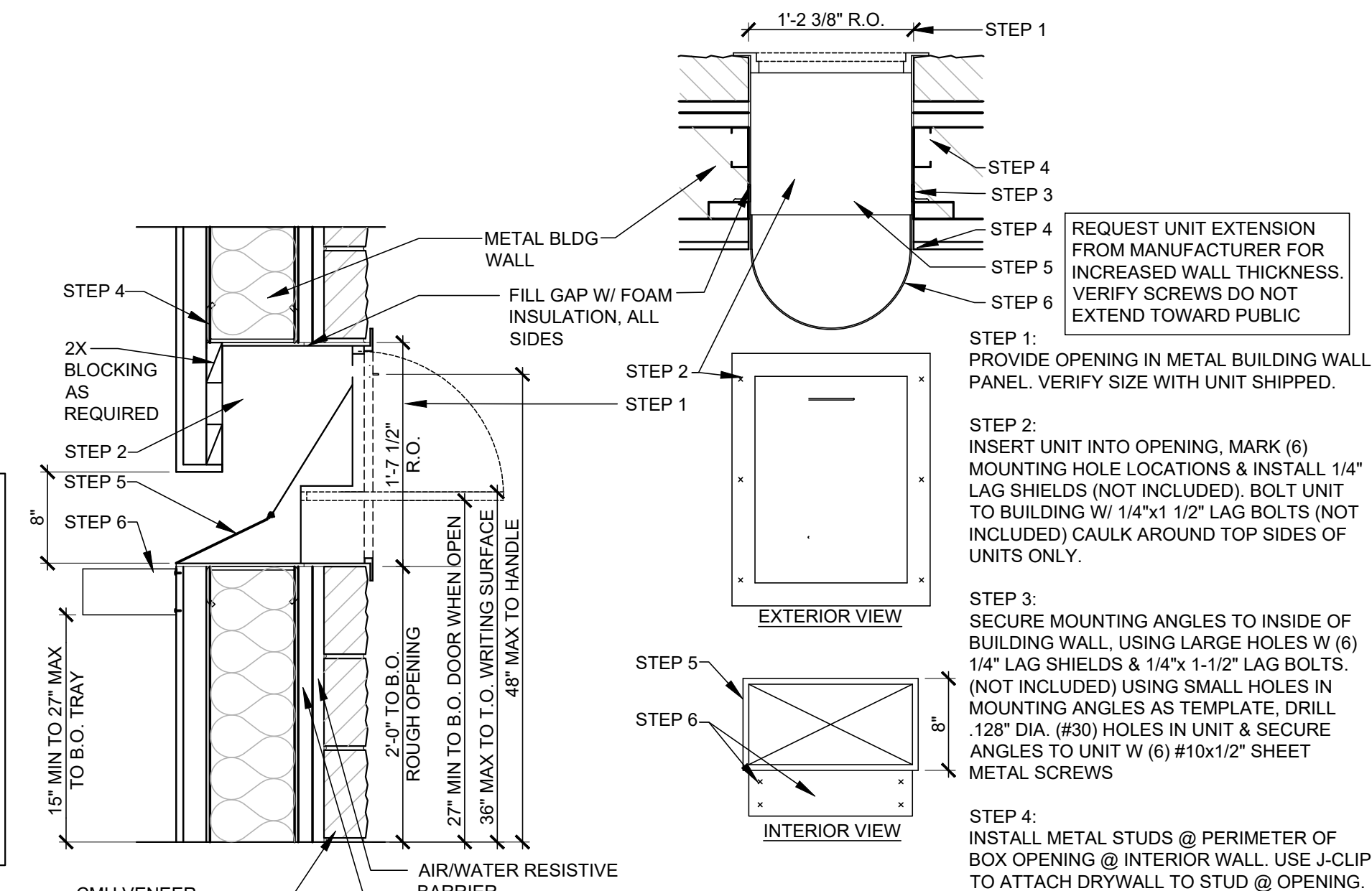
SHEET TITLE:
WALL
SECTIONS
& DETAILS
SHEET NUMBER:
A6



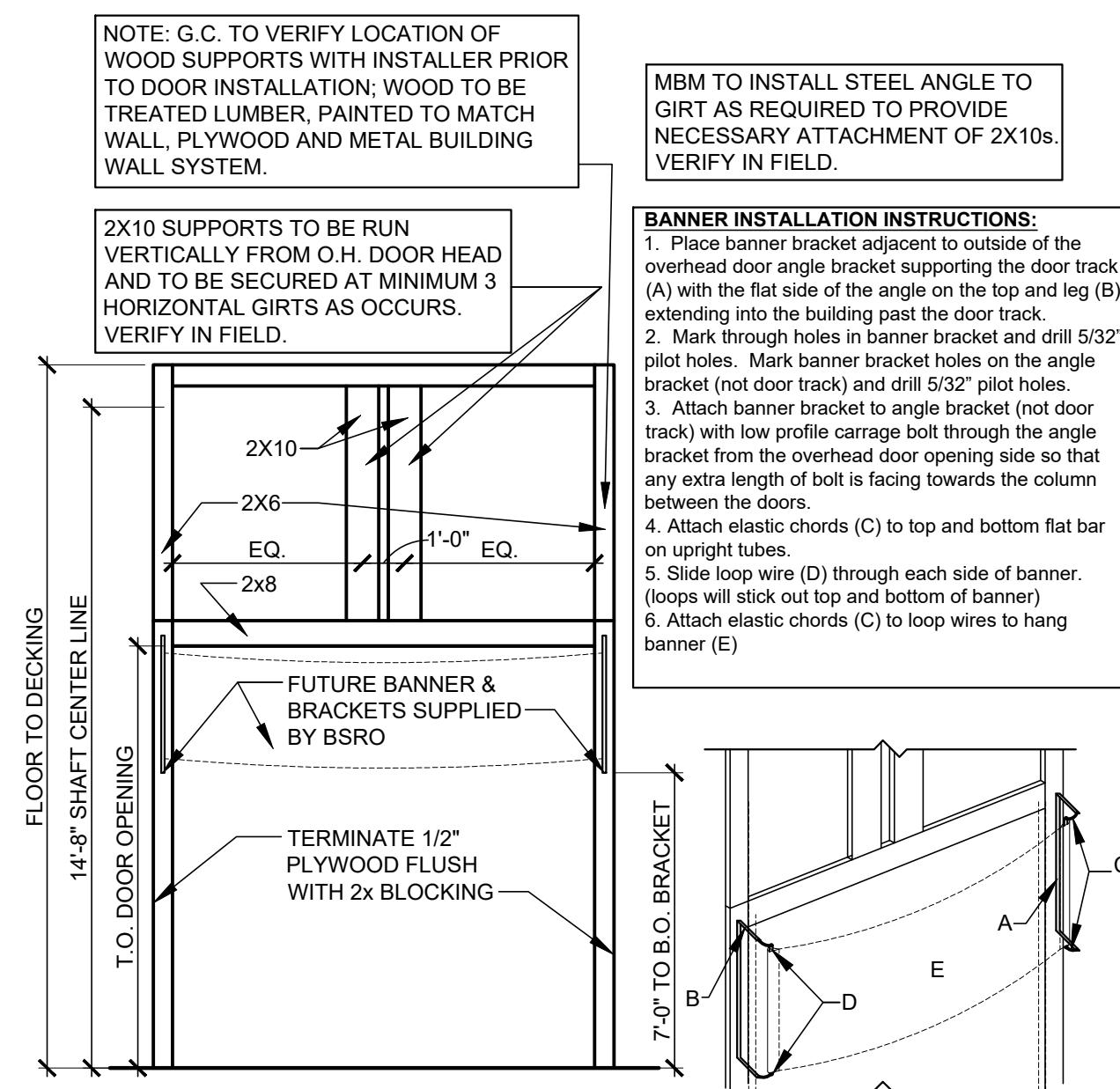
A6.1



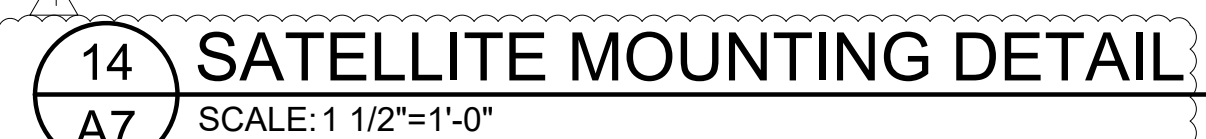
3 INTERIOR ELEVATIONS
A7 SCALE: 1/4"=1'-0"



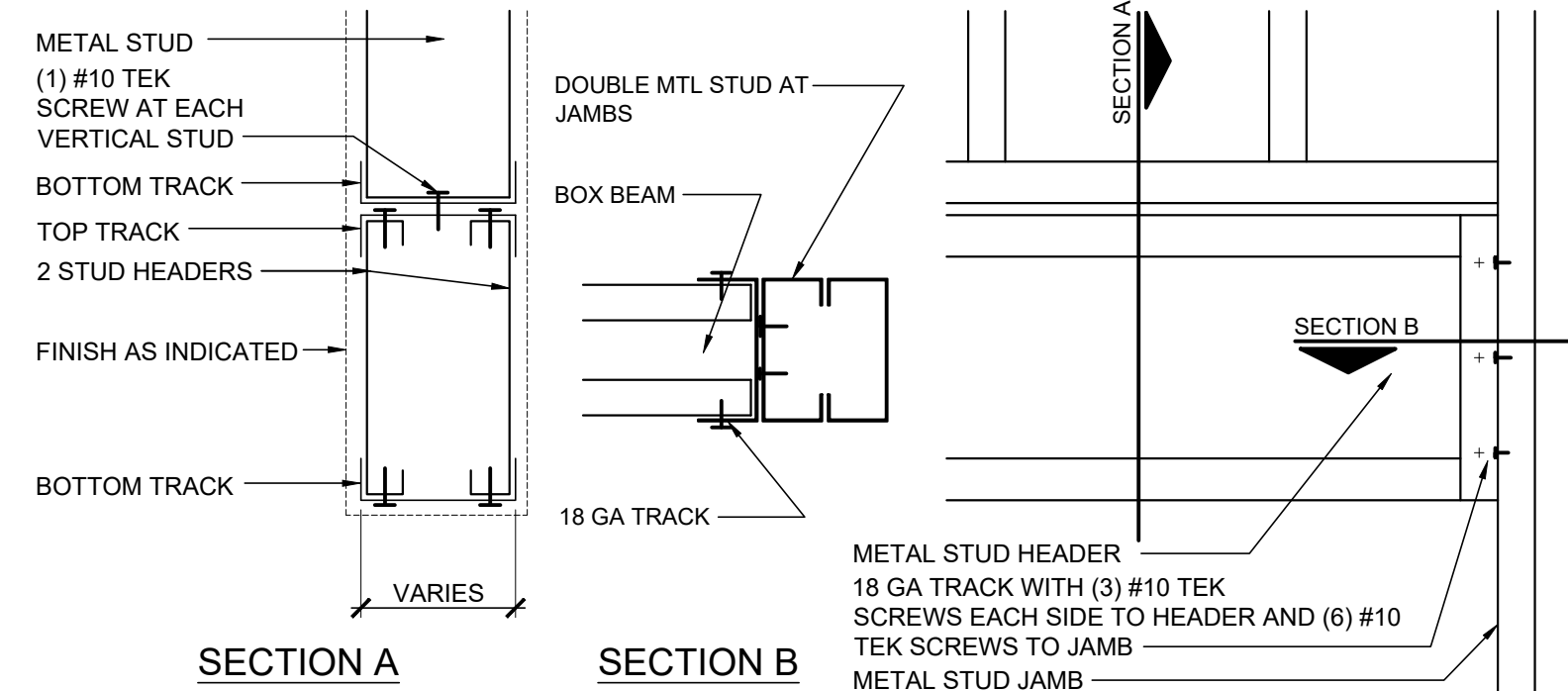
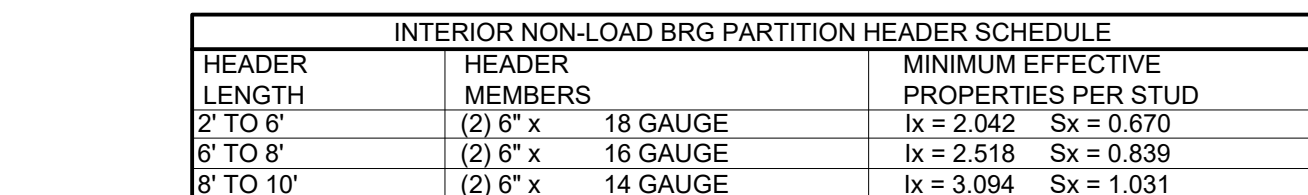
16 KEY DROP BOX
A7 SCALE: 1"=1'-0"



15 OH DOOR SUPPORT DETAIL
A7 SCALE: 1/4"=1'-0"



19 SATellite CONDUIT DETAIL
A7 SCALE: 1 1/2"=1'-0"



23 HEADER CONNECTION DETAIL
A7 SCALE: 1 1/2"=1'-0"

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, a
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
= 0.101
= 0.089
= C
= 0.086
= 0.086
= 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

REINFORCING 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 BEARING JOINTS 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	

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. REFER TO 1-S1 FOR DEFLECTION LIMITS.
4.

SHOP DRAWING SUBMITTALS (INCLUDING DRAWINGS AND CALCULATIONS) SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED.
5.

INCLUDE FOUNDATION REACTIONS OF ALL FRAMING MEMBERS ON THE SHOP DRAWINGS FOR ALL LOAD COMBINATIONS. INDICATE WHETHER THESE LOADS ARE ULTIMATE OR SERVICE LOADS.
6.

INDICATE WHICH LOAD COMBINATION APPLIES THE LARGEST LOAD TO FOUNDATIONS.
7.

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. 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.

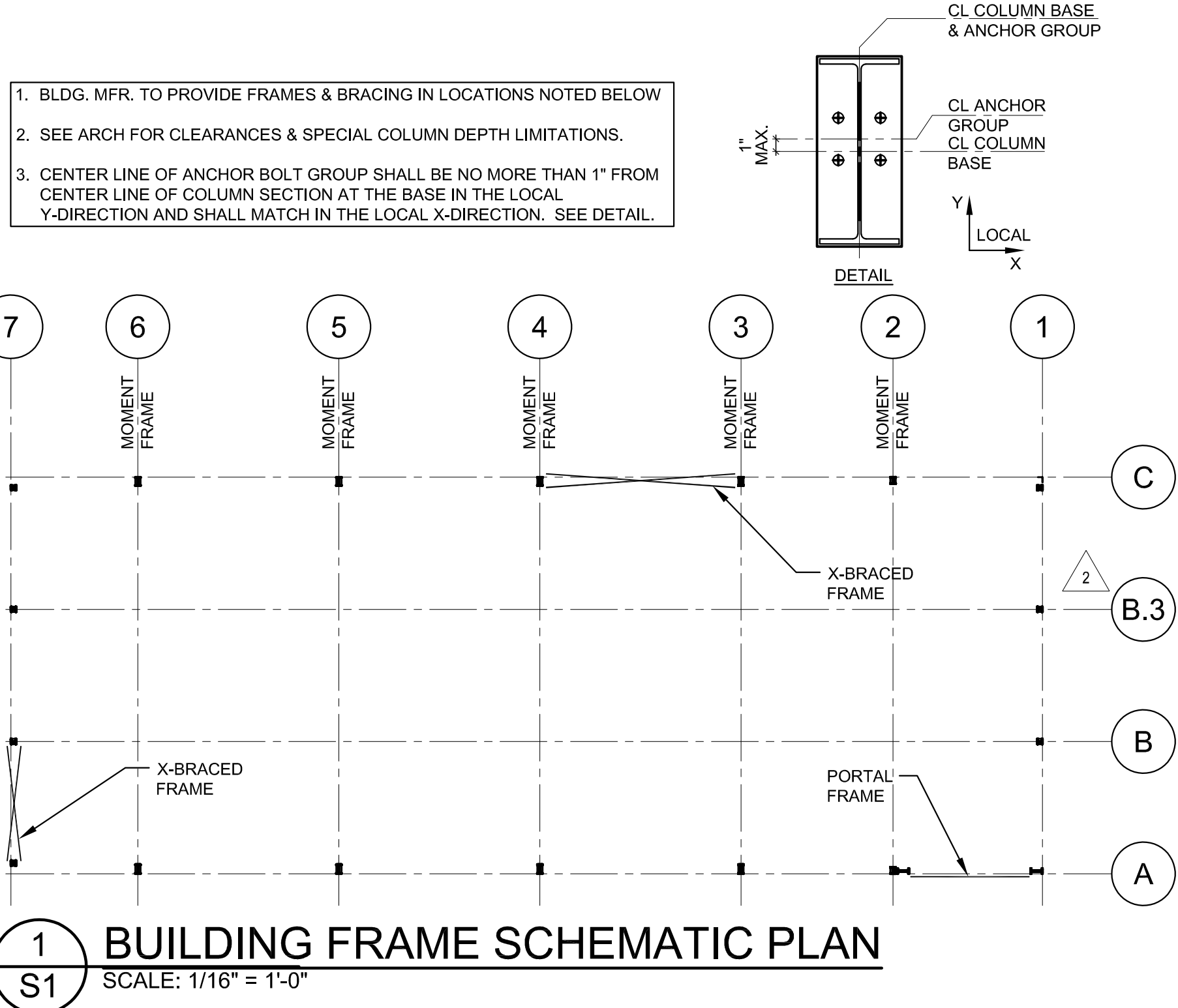
DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:
A. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS. THE INSPECTOR MAY NOT ALTER, MODIFY, ENLARGE OR WAVE ANY OF THE REQUIREMENTS OF THE DOCUMENTS.
B. THE SPECIAL INSPECTOR 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 1704.3
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.
F. 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



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.
6.

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 DETAILLED, 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.

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2020 ER

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JACKSON COUNTY

LEE'S SUMMIT, MISSOURI 64082

MISSOURI

STATE OF MISSOURI

PROFESSIONAL ENGINEER

WALLACE ENGINEERING

MISSOURI CERTIFICATE OF AUTHORIZATION

#001268

2020.07.21 15:24:14-0500

ISSUE BLOCK

ADD #1	04/16/20
CB#1	06/30/20
IFC	07/23/20

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

Jul 20, 2020 - 1:23pm - 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.

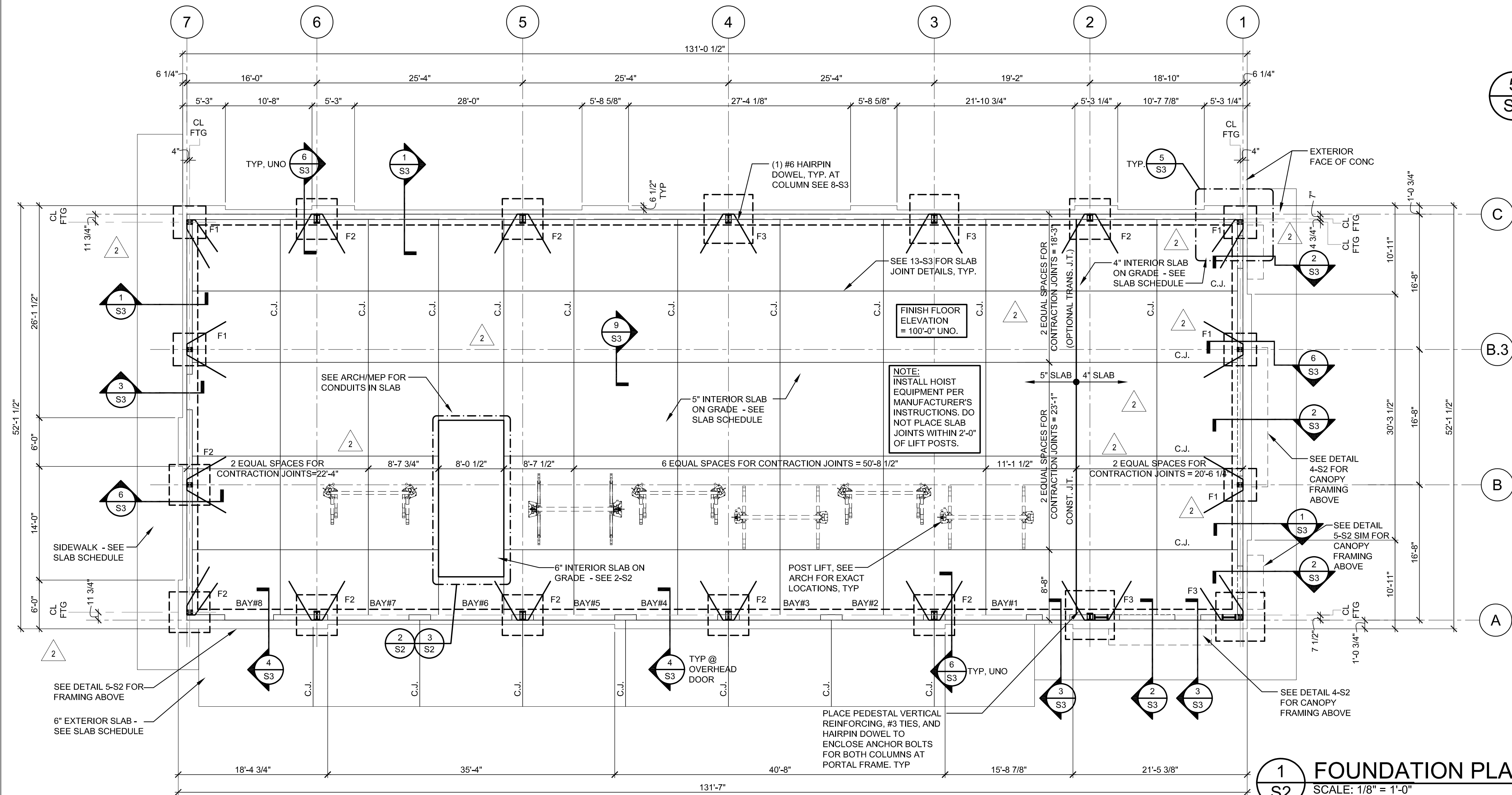
* CONTRACTOR SHALL OBTAIN FLOOR FLATNESS AND LEVELNESS TESTING (FF & FL) AND PROVIDE FINAL REPORT TO OWNER. SEE SPECIFICATIONS.

FOOTING SCHEDULE

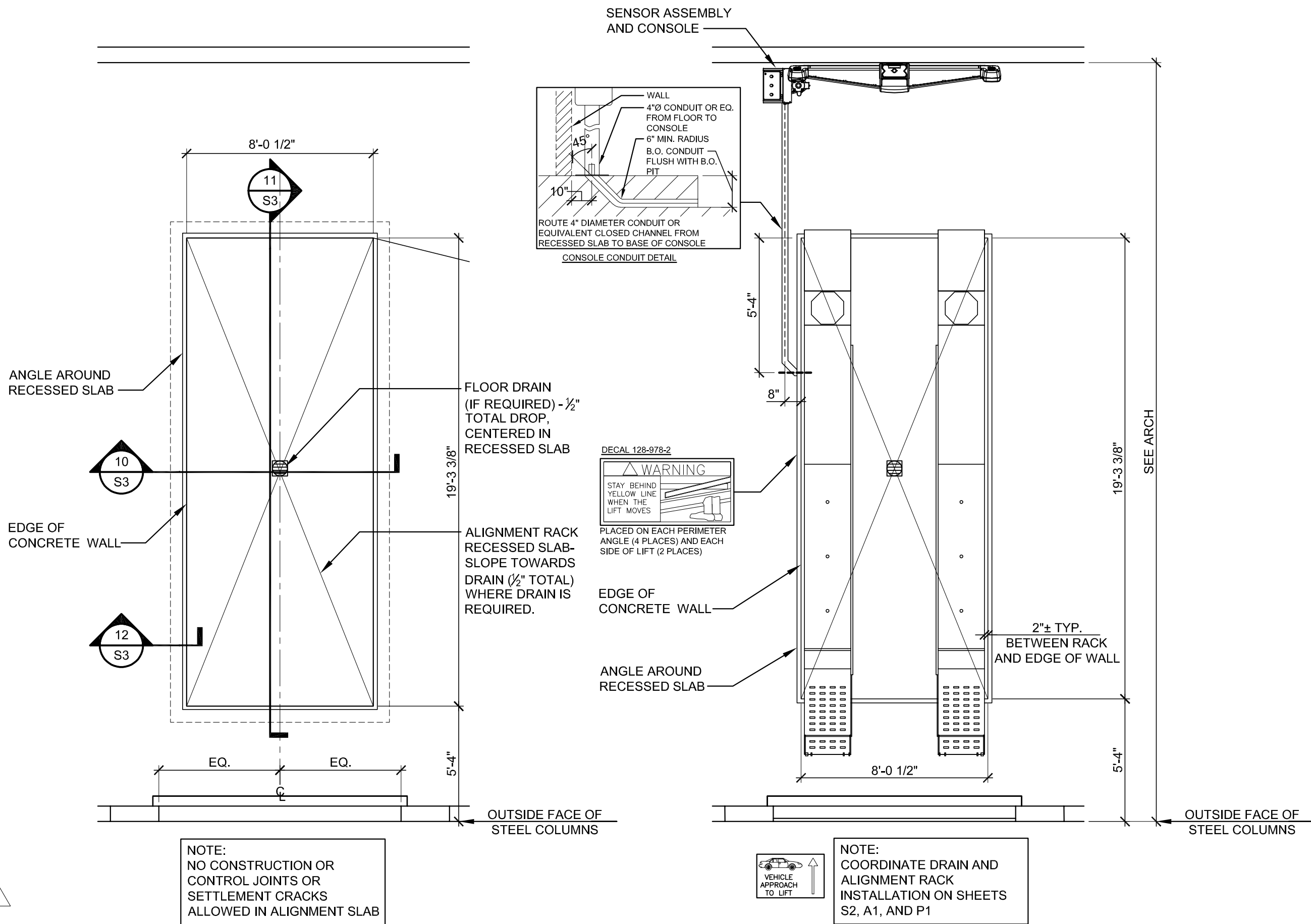
MARK	SIZE	REINFORCING
F1	★ 4'-0" x 4'-0" x 1'-0"	(4) #5 - EACH WAY, BOTTOM
F2	★ 5'-0" x 5'-0" x 1'-0"	(5) #5 - EACH WAY, BOTTOM
F3	★ 6'-0" x 6'-0" x 1'-0"	(6) #5 - EACH WAY, BOTTOM

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

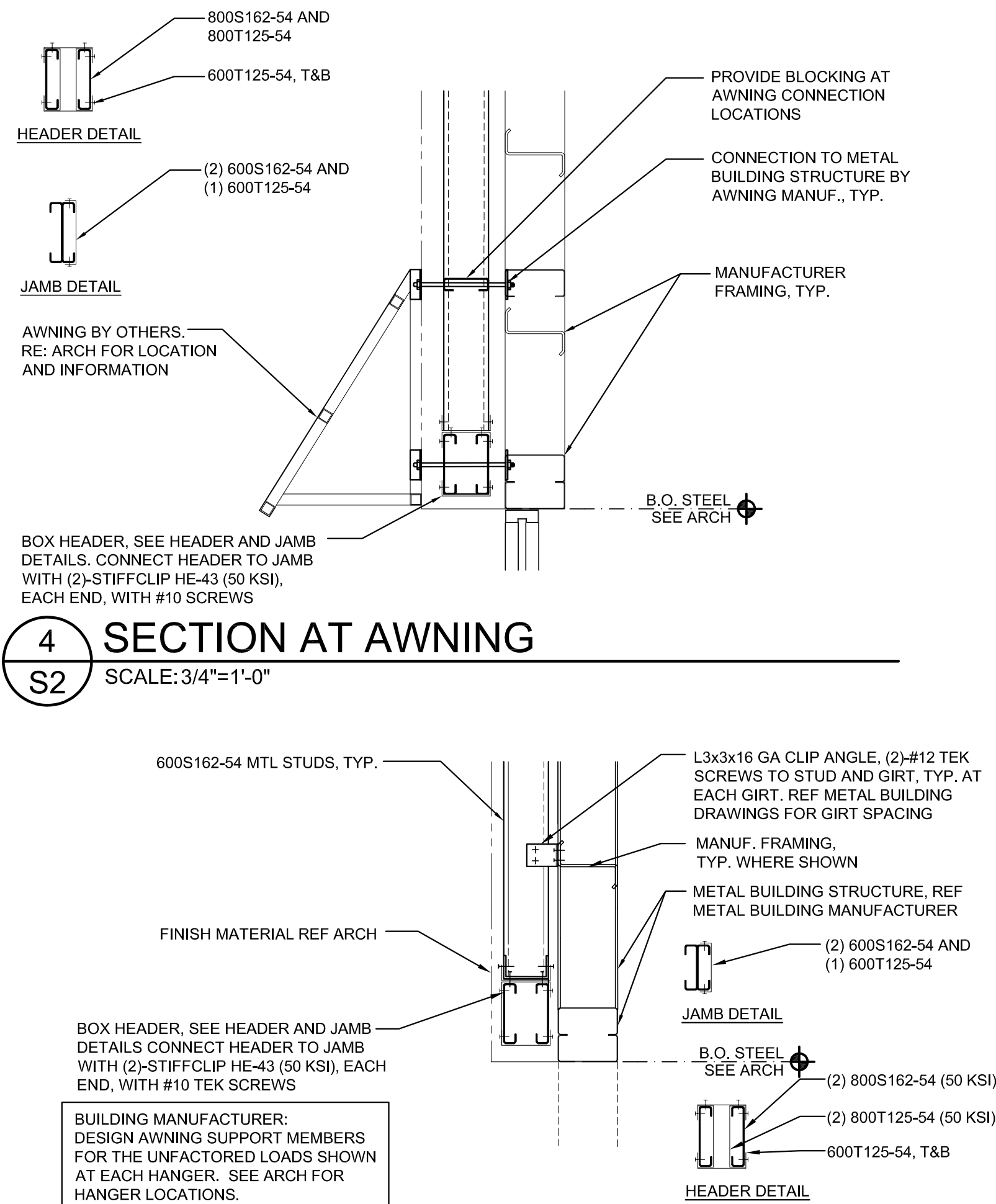
3
S2
ALIGNMENT RACK PLAN
SCALE: 1/4" = 1'-0"



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



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



REF 15/S3 FOR LIGHT POLE FOUNDATION. REF ARCH FOR LOCATION AND CONFIGURATION

REF 16/S3 FOR MONUMENT SIGN WALL/FOOTING. REF ARCH FOR LOCATION AND CONFIGURATION

REF 14/S3 FOR TRASH ENCLOSURE WALL/FOOTING. REF ARCH FOR LOCATION AND CONFIGURATION

EXTERIOR LIGHT GAGE STUDS SHALL BE 800S162-54 AT 16" OC. TYP. UNO. REF ARCH FOR LOCATIONS. STUDS SHALL BE ATTACHED TO EACH METAL BUILDING GIRT WITH 16 GA CLIP ANGLES WITH (2) #10 SCREWS EACH LEG.

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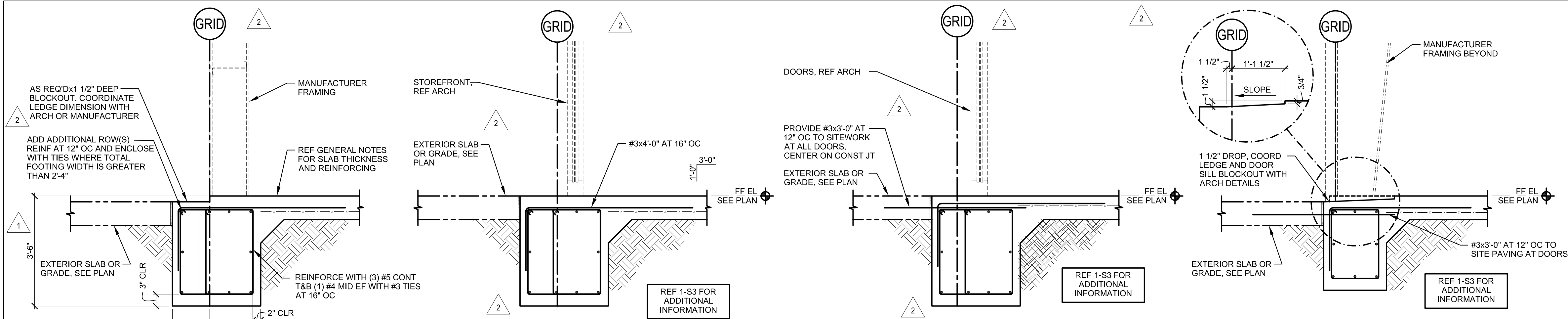
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ADD #1	04/16/20	
CB#1	06/30/20	
IFC	07/23/20	

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:
FOUNDATION PLAN
AND NOTES

SHEET NUMBER:
S2

Sep 08, 2020 - 10:40am - USER: Cubby Brown
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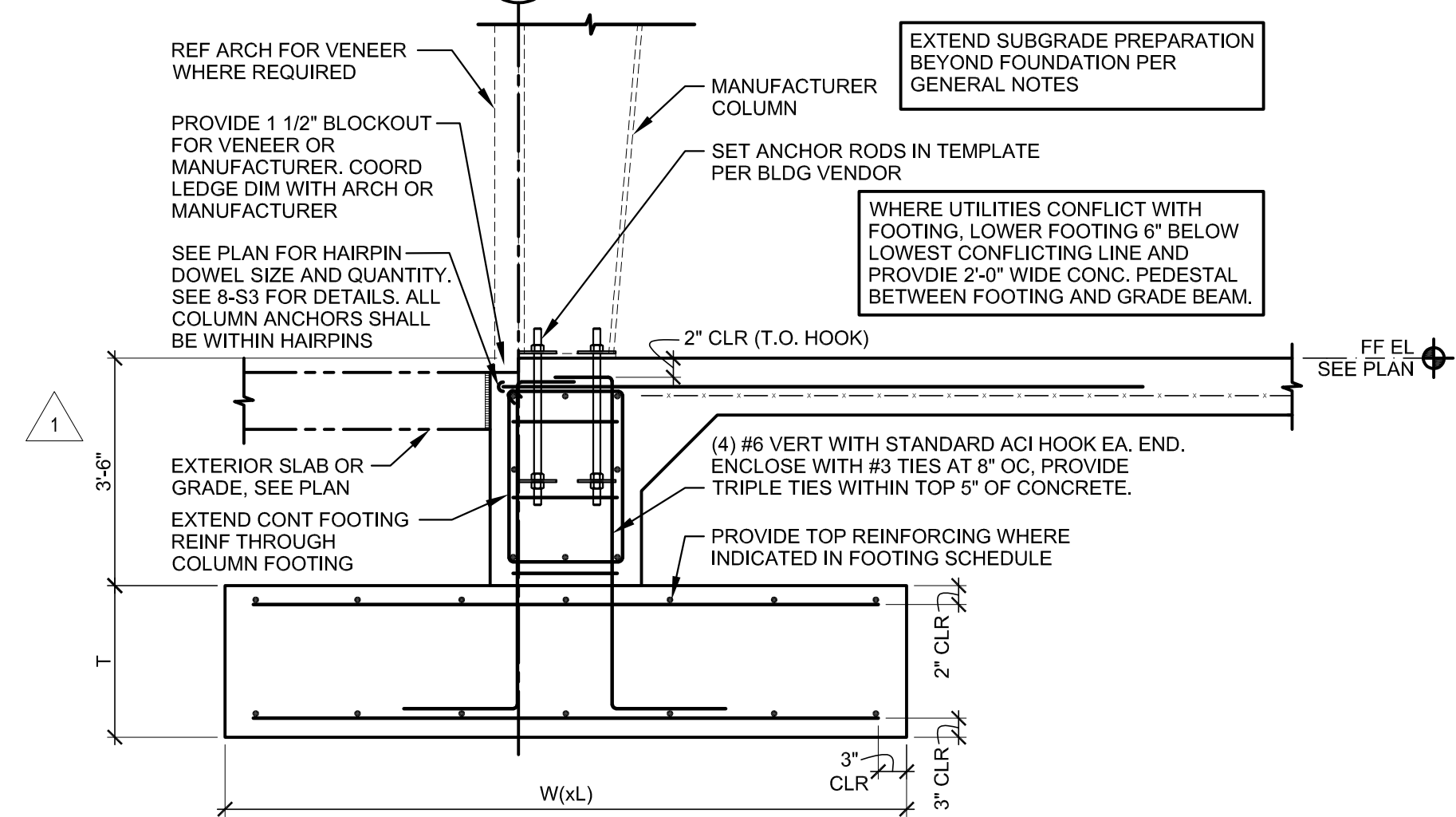
1
S3
EXTERIOR FOOTING DETAIL
SCALE: 3/4" = 1'-0"

2
S3
EXTERIOR FOOTING DETAIL
SCALE: 3/4" = 1'-0"

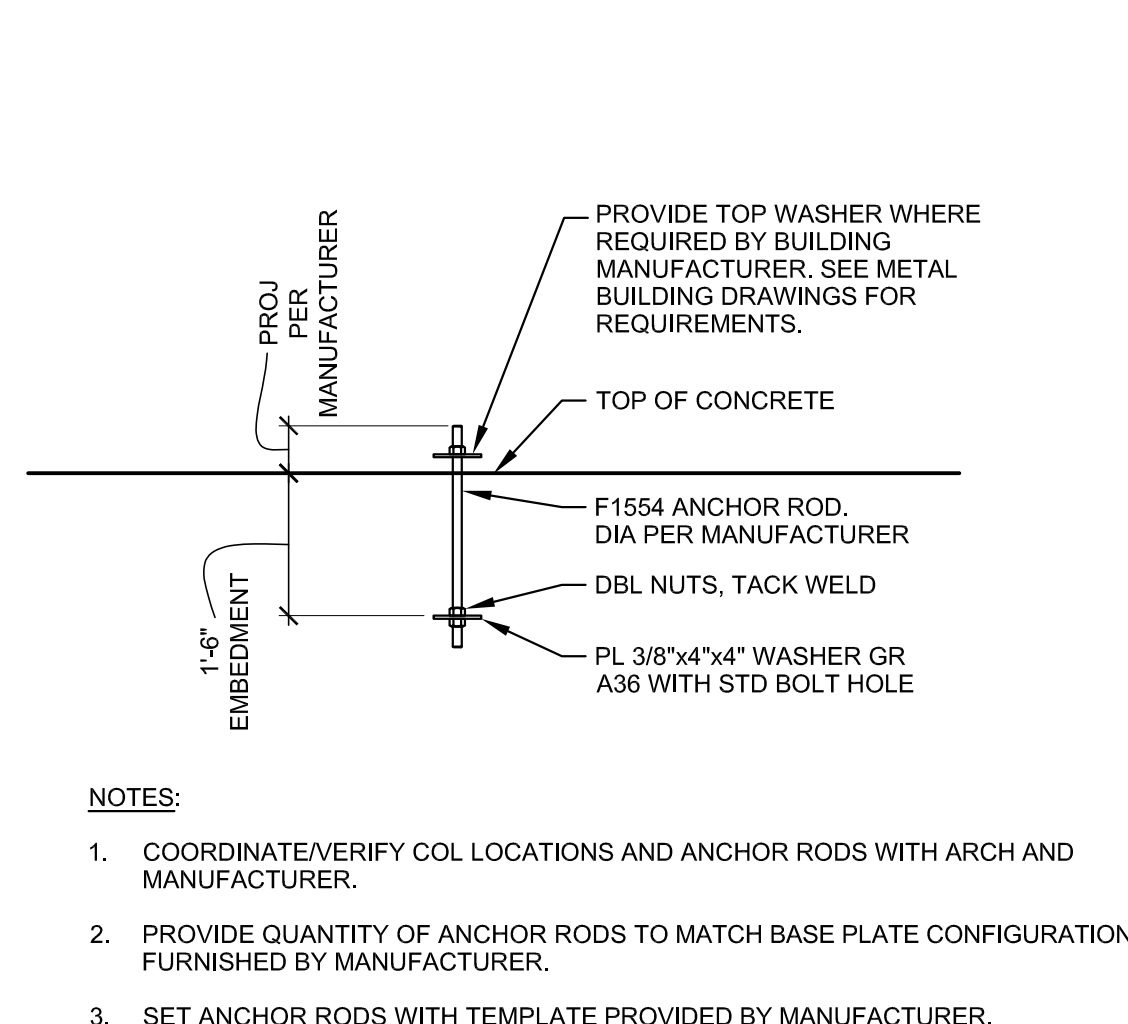
3
S3
DOOR SECTION
SCALE: 3/4" = 1'-0"

4
S3
OVERHEAD DOOR SECTION
SCALE: 3/4" = 1'-0"

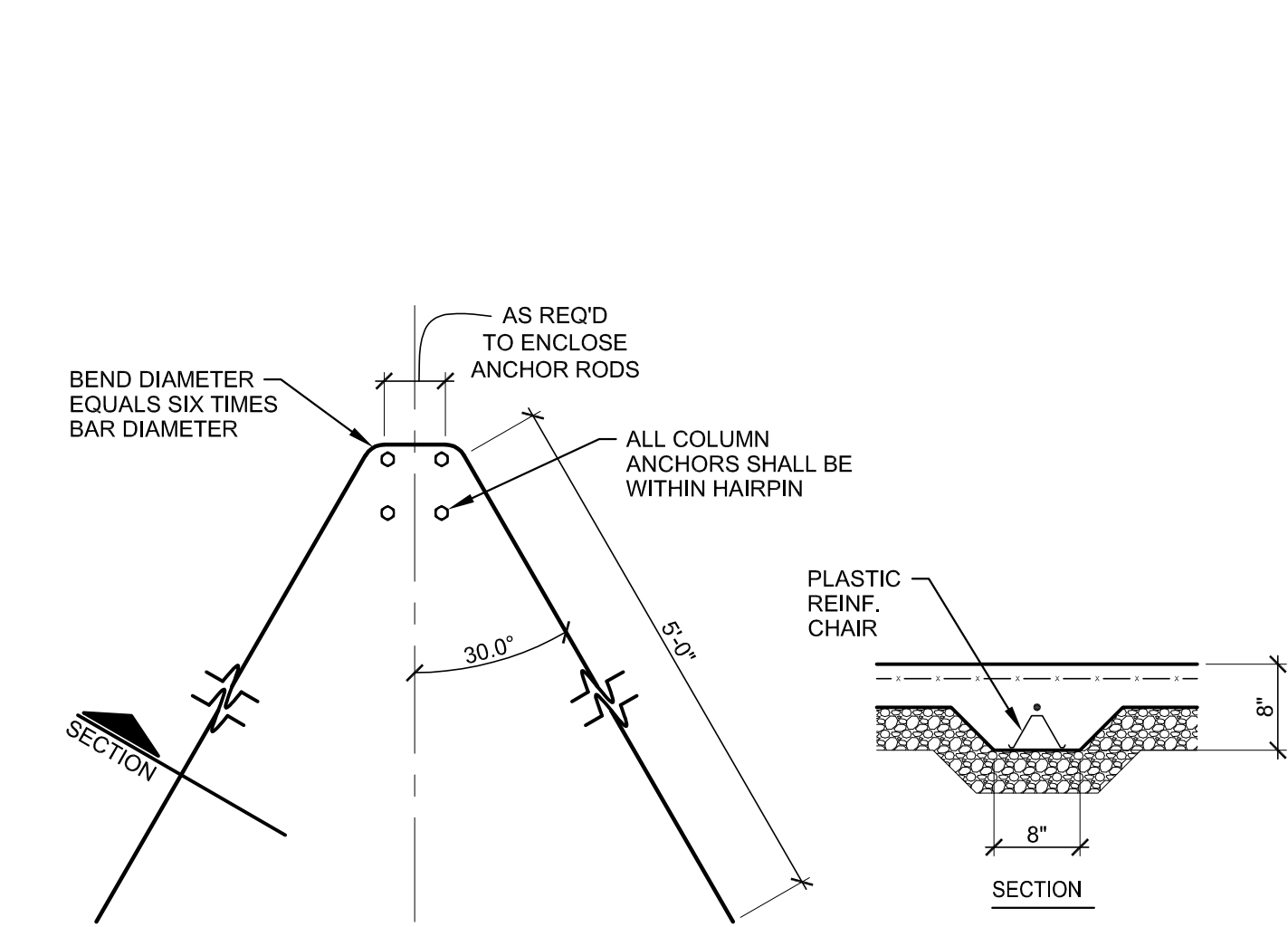
5
S3
CORNER BAR REINFORCING
SCALE: 3/4" = 1'-0"



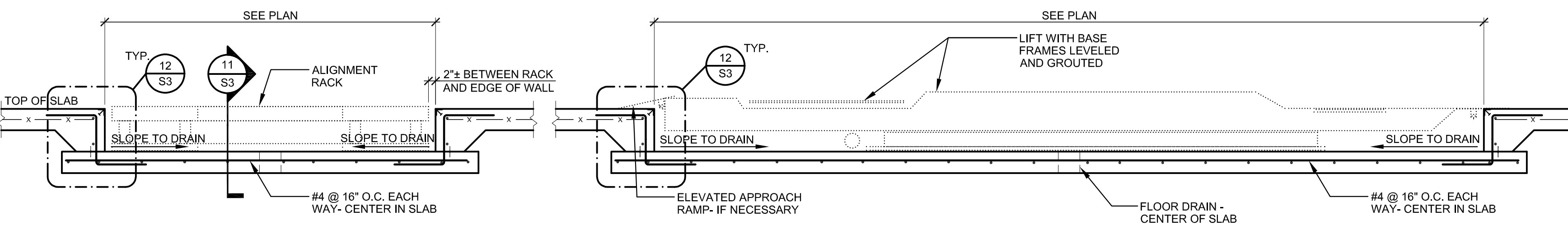
6
S3
SECTION AT PERIMETER COLUMN FOOTING
SCALE: 3/4" = 1'-0"



7
S3
TYPICAL ANCHOR RODS
SCALE: 3/4" = 1'-0"



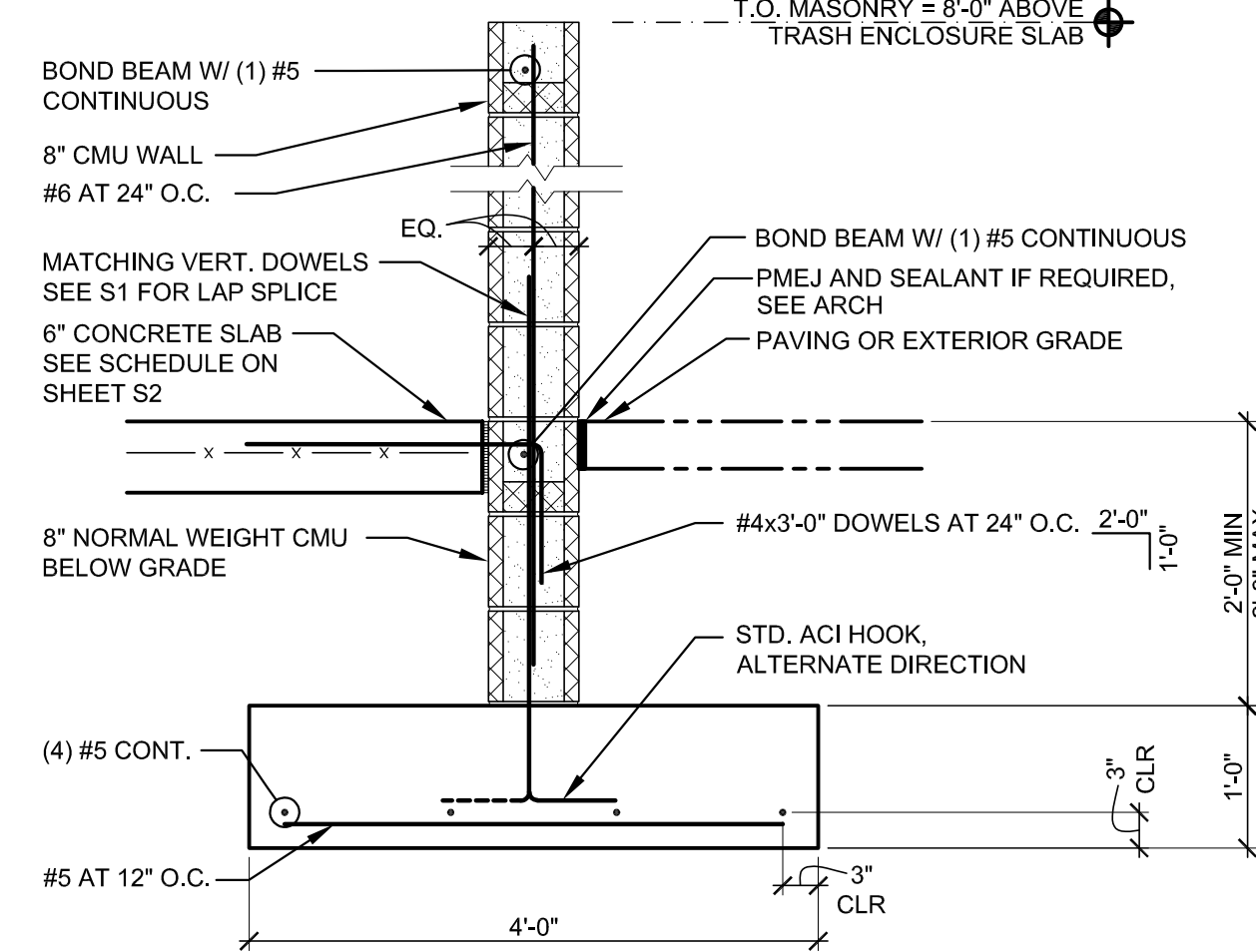
8
S3
TYPICAL HAIRPIN DETAIL
SCALE: 3/4" = 1'-0"



10
S3
SECTION AT ALIGNMENT SLAB
SCALE: 1/2" = 1'-0"

11
S3
SECTION AT ALIGNMENT SLAB
SCALE: 1/2" = 1'-0"

12
S3
SECTION DETAIL
SCALE: 3/4" = 1'-0"

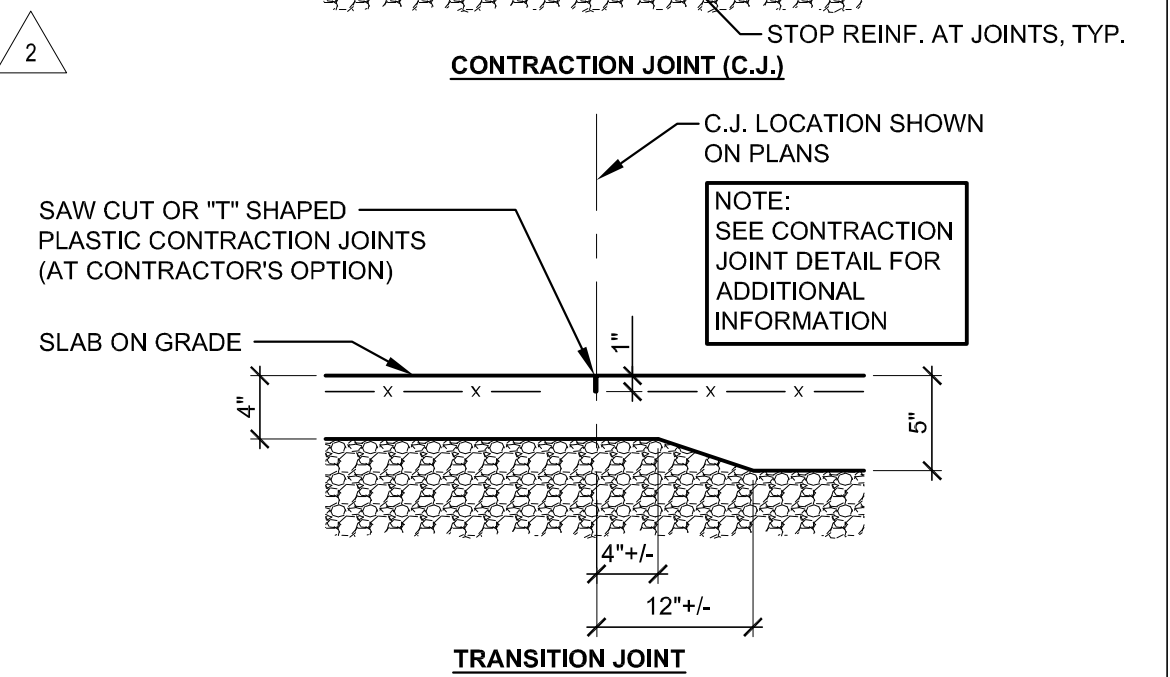


13
S3
TYP. SLAB JOINT DETAILS
SCALE: 1" = 1'-0"

14
S3
TRASH ENCLOSURE
SCREEN WALL SECTION
SCALE: 3/4" = 1'-0"

15
S3
LIGHT POLE FOUNDATION
SCALE: 1/2" = 1'-0"

16
S3
CMU BASE AT MONUMENT SIGN
SCALE: 3/4" = 1'-0"



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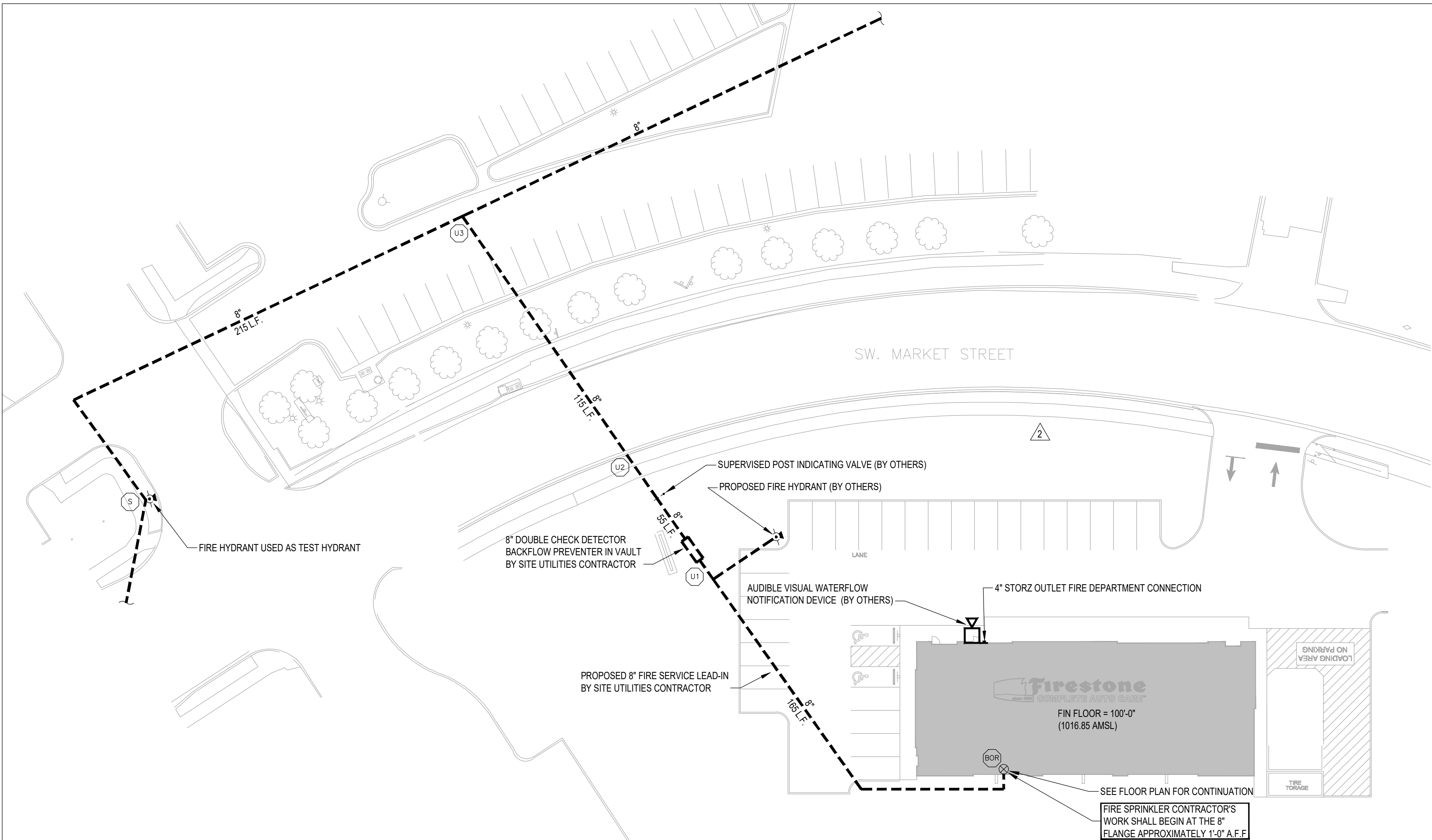
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2	CB#1	06/30/20
3	IFC	07/23/20
4	CB#2	09/09/20

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:
**FOUNDATION
DETAILS**

SHEET NUMBER:
S3

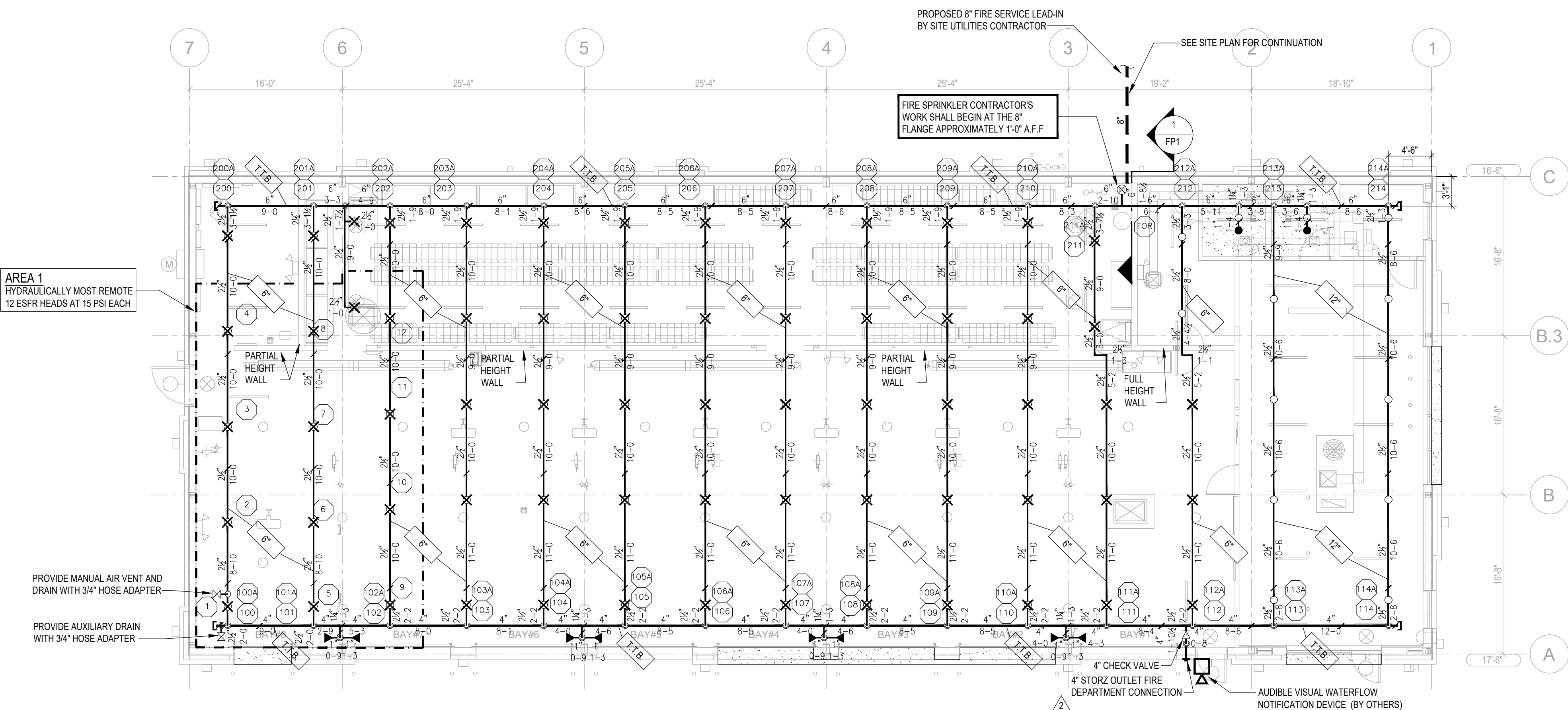


FIRE PROTECTION SITE PLAN

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"

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.

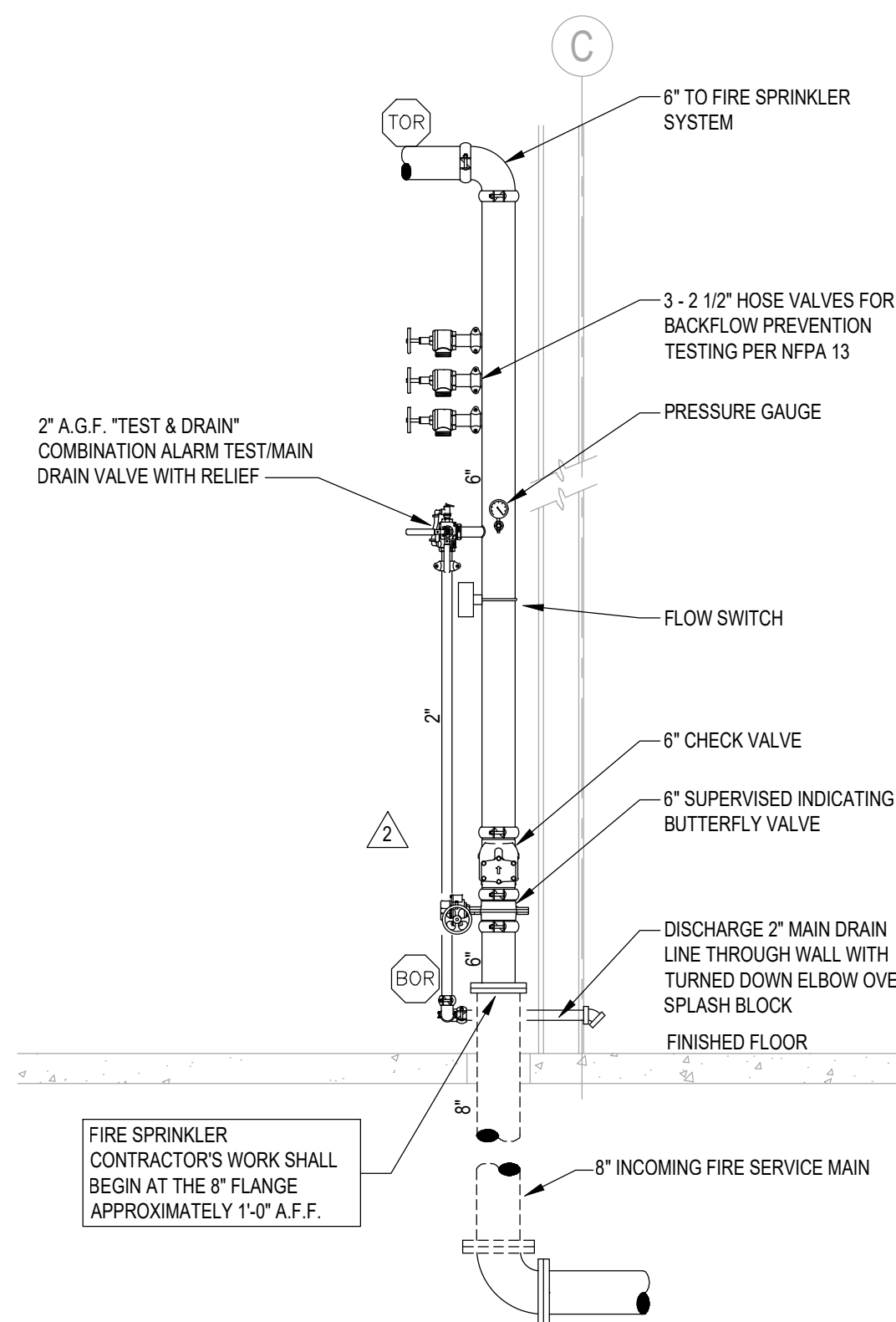
SYMBOL KEY

- NEW PIPING
- CENTER LINE OF SPRINKLER: ALIGN WITH LIGHTS AND/OR OTHER SPRINKLERS: COORDINATE WITH OTHER TRADES.
- RECOMMENDED CENTER LINE ELEVATION OF PIPE TO BE HELD TIGHT TO JOIST AND/OR BELOW METAL DECK (T.T.B. = TIGHT TO BEAM)
- RISE FROM LEFT TO RIGHT AND DROP FROM RIGHT TO LEFT
- CAPPED PIPE
- HYDRAULIC REFERENCE POINT
- GLOBE VALVE
- CHECK VALVE
- STORZ FIRE DEPARTMENT CONNECTION
- PIPE HANGER

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 SPRINKLER RISER ELEVATION

1 FP1 NOT TO SCALE

CCI
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2043 WOODLAND PKWY, SUITE 300
ST. LOUIS, MISSOURI 63146-4235
314-991-2633
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Firestone
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NEW FCAC STORE
2020 ER
3561 SW MARKET ST
JACKSON COUNTY
LEE'S SUMMIT, MISSOURI 64082

STATE OF MISSOURI
WILLIAM B. SMITH
NUMBER
PE-2008019735
07-22-2020
**FIRE PROTECTION
ENGINEER OF RECORD:**
WILLIAM B. SMITH, PE
LICENSE NO. PE-2008019735
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
3	07/23/20	IFC SET

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 SPRINKLER
PLAN

SHEET NUMBER:
FP1

GENERAL NOTES
1. PROVIDE ALL NECESSARY OFFSETS, RAISES OR DROPS IN PIPING AND AUXILIARY DRAINS REQUIRED BY BUILDING CONDITIONS WHETHER OR NOT SHOWN ON THE DRAWINGS.
2. EXAMINE THE JOB CONDITIONS AND VERIFY ALL MEASUREMENTS, DISTANCES, ELEVATIONS, CLEARANCES, PIPE SIZES, ETC.
3. ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, AND ELECTRICAL BACKGROUND INFORMATION IS SHOWN FOR COORDINATION PURPOSES <u>ONLY</u> . REFER TO THE PROPER DRAWINGS FOR EXACT LOCATIONS, SIZES, AND QUANTITIES OF OTHER TRADES' WORK.
4. THE ENGINEERING DRAWINGS HAVE BEEN PREPARED USING AUTOCAD. THE DRAWINGS ARE 100% CAD. THE HYDRAULIC CALCULATIONS HAVE BEEN PREPARED USING HYDRACAD. THESE DOCUMENTS WILL BE MADE AVAILABLE TO THE SUCCESSFUL FIRE SPRINKLER CONTRACTOR IN EITHER ELECTRONIC FORM OR HARD COPY.
5. SUPPLY ONLY ONE (1) SPRINKLER FROM A SINGLE BRANCH LINE OUTLET. PROVIDE NEW BRANCH LINES AS REQUIRED.
6. SPRINKLERS NEAR A HEAT SOURCE (UNIT HEATERS, DIFFUSERS, STEAM MAINS, SKYLIGHTS, ETC.) SHALL HAVE TEMPERATURE RATINGS IN ACCORDANCE WITH NFPA 13.
7. IT IS UNDERSTOOD, UNLESS SPECIFICALLY INDICATED OTHERWISE, THAT THE PIPE SIZES AS SHOWN ON THE BID DOCUMENTS WILL BE USED.

PIPING/FITTING NOTES
1. ALL PIPING AND FITTINGS SHALL BE NEW UNLESS NOTED OTHERWISE ON THE DRAWINGS.
2. MAINS SHALL BE SCHEDULE 10 ASTM A795, A53, OR A135 PER NFPA 13.
3. BRANCH LINES SHALL BE SCH 10 EXCEPT WHERE THREADED FITTINGS ARE USED. PIPE FOR THREADED FITTING SHALL BE SCH 40 ASTM A795, A53, OR A135 PER NFPA 13.
4. ALL PIPING SHALL HAVE A CORROSION RESISTANCE RATIO (CRR) OF 1.0 OR GREATER.
5. GROOVED FITTINGS AND COUPLINGS SHALL BE OF THE SAME MANUFACTURER.
6. THREADED FITTINGS SHALL BE CAST IRON OR MALLEABLE IRON.
7. ALL PIPING AND FITTINGS SHALL BE U.L. LISTED AND/ OR F.M. APPROVED.
8. HEX BUSHINGS SHALL NOT BE USED.

HANGER NOTES
1. COORDINATE ALL HANGER TYPES AND LOCATIONS WITH THE STRUCTURAL ENGINEER OF RECORD.
2. COORDINATE ALL HANGER TYPES AND LOCATIONS WITH THE METAL BUILDING MANUFACTURER.
3. PIPES LARGER THAN 4 IN. RUNNING PARALLEL TO BAR JOISTS SHALL BE HUNG FROM TRAPEZE HANGERS SUPPORTED NEARLY EQUALLY BY TWO JOISTS.
4. ONLY ONE PIPE SHALL BE SUPPORTED FROM A SINGLE TRAPEZE HANGER UNLESS OTHERWISE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD.

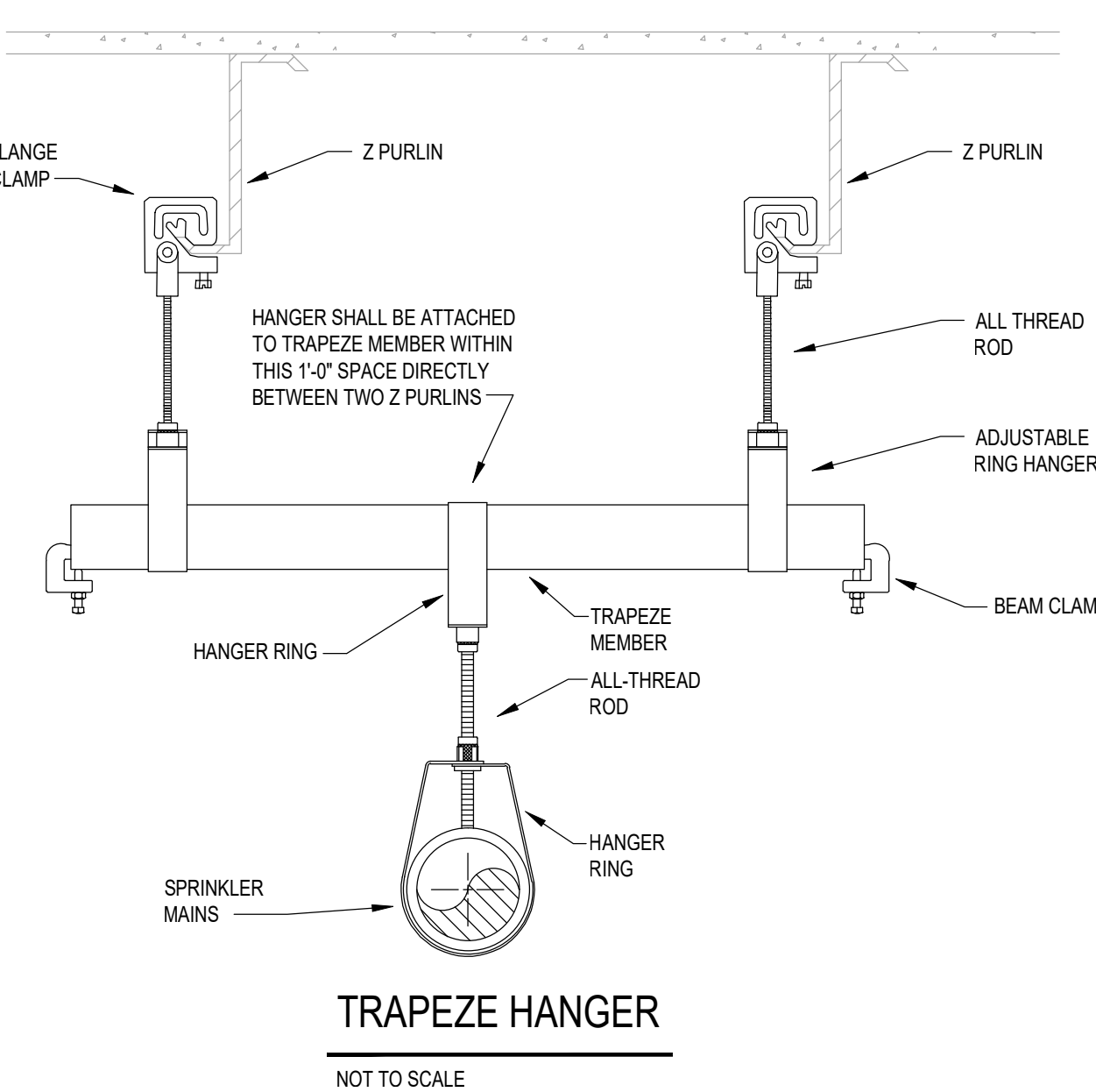
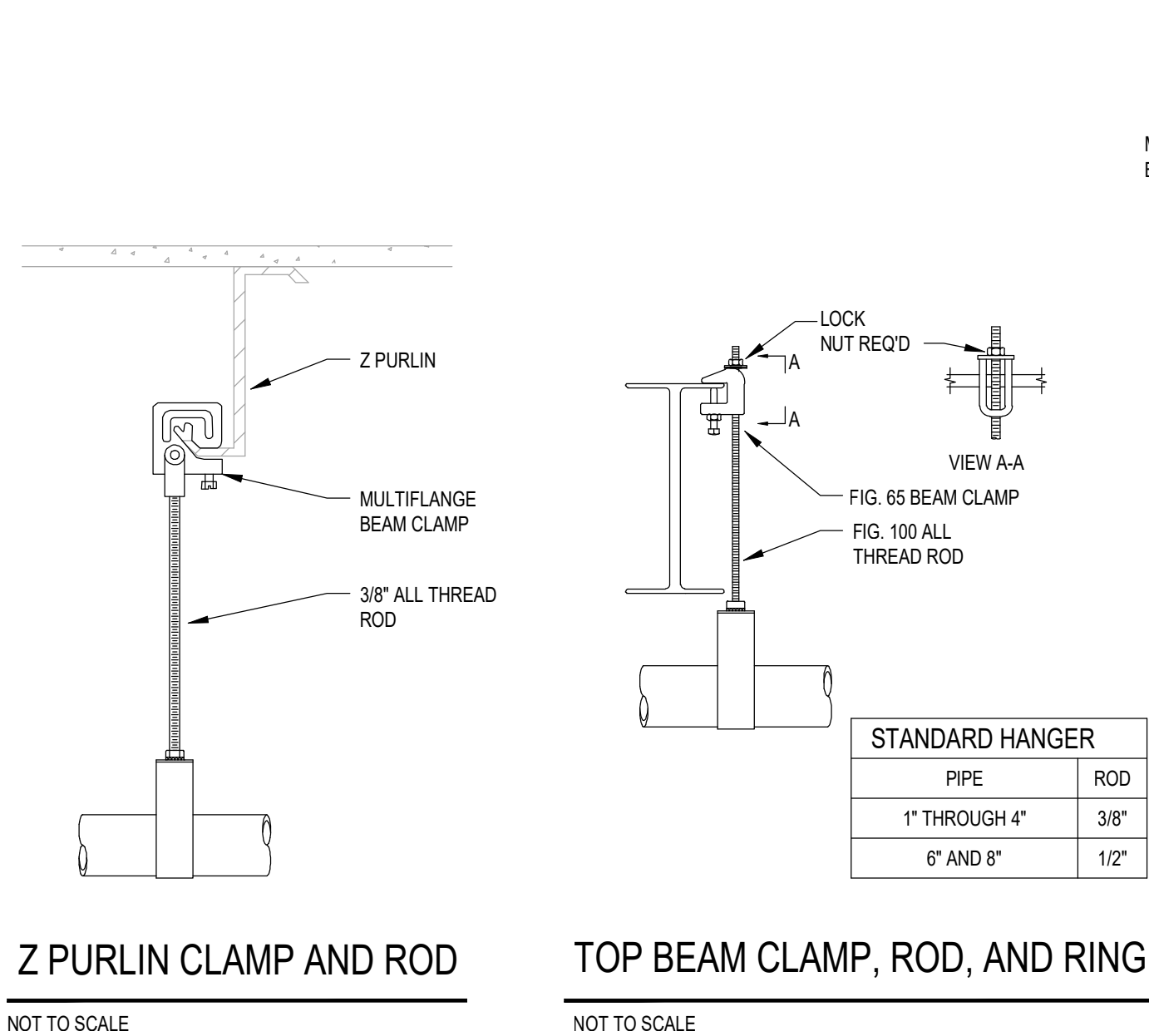
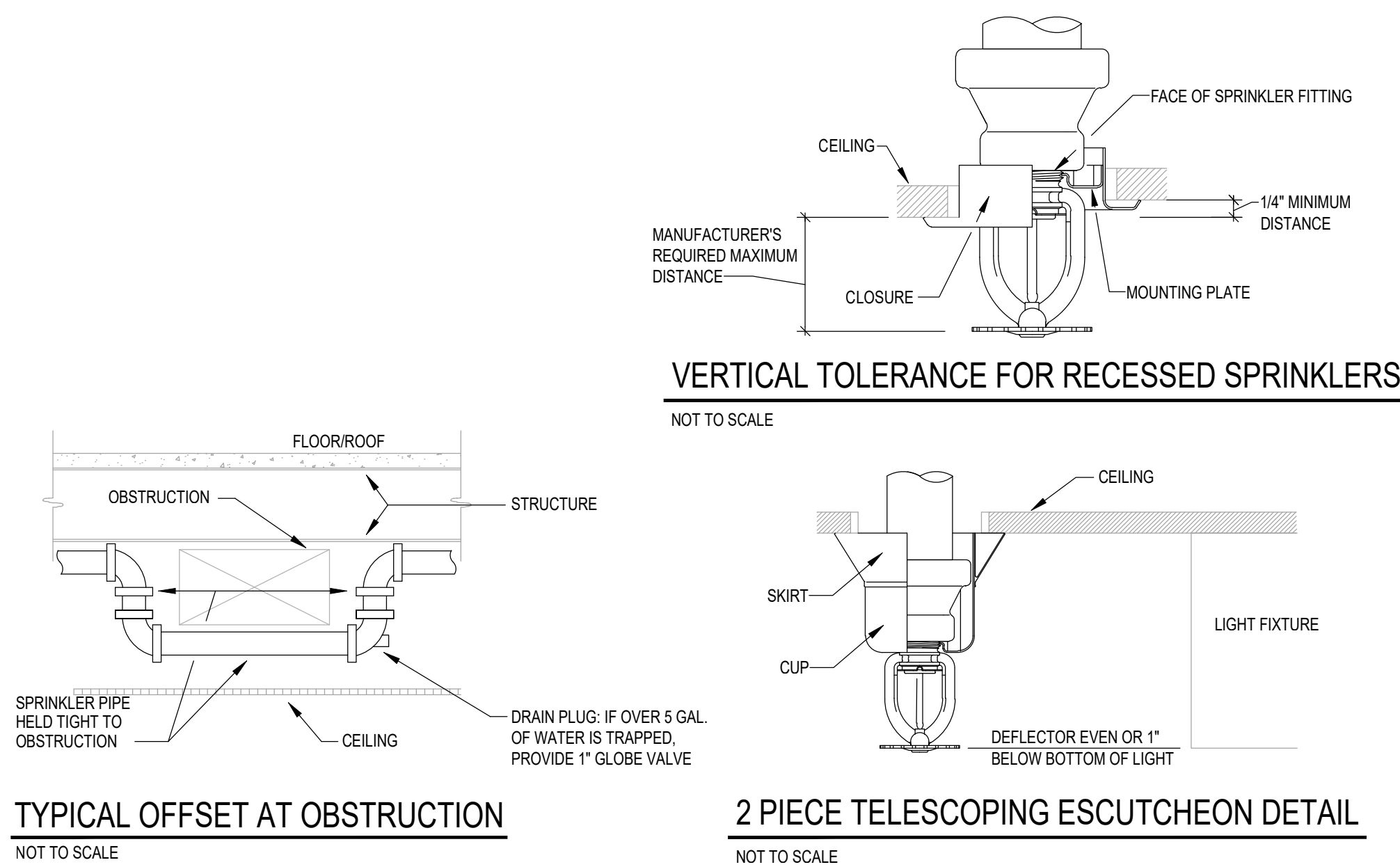
DESIGN CRITERIA
OFFICE AREAS, BREAK ROOM, TOILETS (LIGHT HAZARD WET PIPE FIRE SPRINKLER SYSTEM);
DENSITY - 0.10 GPM/SQ FT
OPERATING AREA - 1,500 SQ FT
OFFICE AREAS AND BREAK ROOM: STANDARD COVERAGE SPACING TEMP. CLASSIFICATION / NOMINAL K-FACTOR / RESPONSE TYPE - INT / 5.6 / QR
TOILET: STANDARD COVERAGE SPACING TEMP. CLASSIFICATION / NOMINAL K-FACTOR / RESPONSE TYPE - ORD / 5.6 / QR
HOSE STREAM ALLOWANCE - 100 GPM
DURATION - 0.5 HOUR
CUSTOMER SHOWROOM (ORDINARY GROUP II, WET PIPE FIRE SPRINKLER SYSTEM):
DENSITY - 0.20 GPM/SQ FT
OPERATING AREA - 1,500 SQ FT
TEMP. CLASSIFICATION / NOMINAL K-FACTOR / RESPONSE TYPE - INT / 5.6 / QR
HOSE STREAM ALLOWANCE - 250 GPM
DURATION - 1.0 HOUR
MECHANICAL BAYS, INVENTORY AND USED INVENTORY (15 PSI) ESFR WET PIPE FIRE SPRINKLER SYSTEM:
MINIMUM END HEAD PRESSURE - 15 PSI
MINIMUM NUMBER OF SPRINKLERS CALCULATED - TWELVE (12) HYDRAULICALLY MOST REMOTE SPRINKLERS, FOUR (4) PER BRANCH LINE.
TEMP. CLASS / NOMINAL K-FACTOR / SPRINKLER TYPE - INT / 25.2 / ESFR
HOSE STREAM ALLOWANCE - 250 GPM
DURATION - 1.0 HOUR
NOTE: THIS DESIGN CRITERIA WILL PROTECT TIRE STORAGE ON TREAD UP TO 15FT IN AN 20FT BUILDING.
SPRINKLER SPACING SHALL BE AS SHOWN ON THE ENGINEERING DRAWINGS.
HARD CEILINGS - LOCATE SPRINKLERS IN ACCORDANCE WITH THE ENGINEERING DRAWINGS. SPRINKLERS SHALL BE IN LINE WITH LIGHT FIXTURES AND OTHER SPRINKLERS WHERE INDICATED ON THE DRAWINGS. COORDINATE CLOSELY WITH THE ELECTRICAL CONTRACTOR.
UNFINISHED AREAS - LOCATE SPRINKLERS AS SHOWN ON THE ENGINEERING DRAWINGS.
WATER SUPPLY:
FIRE PROTECTION WATER SUPPLY HAS BEEN OBTAINED FROM A HYDRANT FLOW TEST PERFORMED ON 11/07/2019 BY LEE'S SUMMIT WATER UTILITY. THE WATER SUPPLY SHALL BE CONSIDERED EFFECTIVE AT THE BASE OF THE TEST HYDRANT. THE APPROXIMATE WATER SUPPLY ELEVATION IS 1,012 FT AMSL OR 4 FT BELOW FINISH FLOOR. NO SUBSTITUTIONS OF WATER SUPPLY DATA OR ITS EFFECTIVE POINT WILL BE ALLOWED.
ACTUAL STATIC: 78 PSI ACTUAL RESIDUAL: 50 PSI ACTUAL FLOW: 1,775 GPM
THE ABOVE WATER SUPPLY COORDINATES DO NOT INCLUDE THE REQUIRED 10% OF THE STATIC PRESSURE SAFETY FACTOR THAT SHALL BE ENFORCED. THE FOLLOWING WATER SUPPLY COORDINATES HAVE BEEN ADJUSTED -8 PSI FOR THE REQUIRED SAFETY FACTOR.
DESIGN STATIC: 70 PSI DESIGN RESIDUAL: 42 PSI DESIGN FLOW: 1,775 GPM
PROVIDE FIRE DEPARTMENT CONNECTION AS REQUIRED.

REFERENCED STANDARDS
• INTERNATIONAL BUILDING CODE 2018 EDITION
• INTERNATIONAL FIRE CODE 2018 EDITION
• NFPA 13 - AUTOMATIC SPRINKLER SYSTEMS 2016 EDITION

TESTING/FLUSHING NOTES
1. ALL SYSTEMS SHALL BE TESTED PER NFPA 13.
2. UNDERGROUND SHALL BE FLUSHED IN ACCORDANCE WITH NFPA PRIOR TO CONNECTING TO THE OVERHEAD SYSTEM.
3. TESTING SHALL BE COORDINATED WITH THE LOCAL AUTHORITY HAVING JURISDICTION AND COMPLY WITH ALL LOCAL REQUIREMENTS.

INSTALLATION NOTES
1. PROVIDE SPRINKLER PROTECTION BELOW DUCTS IN EXPOSED STRUCTURE AREAS PER NFPA-13.
2. ALL LIGHTING AND CONDUIT RUNS SHALL BE LOCATED SUCH THAT THE LEADING EDGE OF ANY OBSTRUCTION IS A MINIMUM OF 1'-0" (MEASURED HORIZONTALLY) FROM THE CENTERLINE OF ALL ESFR SPRINKLERS. COORDINATE EXACT LOCATIONS OF SPRINKLERS WITH OTHER DISCIPLINES PRIOR TO INSTALLATION. NO VARIATION FROM THIS MINIMUM CLEARANCE WILL BE PERMITTED.

MANUAL AIR RELEASE NOTE
CONTRACTOR SHALL VENT AIR MANUALLY OUT OF PIPE.
CONTRACTOR SHALL PROVIDE NECESSARY EQUIPMENT AND MATERIALS TO DISCHARGE WATER TO EXTERIOR OR SUITABLE DRAIN LOCATION.



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FIRE PROTECTION ENGINEER OF RECORD:
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LICENSE NO. PE-2008019735
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ISSUE BLOCK		
Δ	DATE	ADD #1
Δ	07/23/20	IFC SET

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 SPRINKLER NOTES AND DETAILS
SHEET NUMBER:
FP2



FIRE ALARM MATRIX

- | 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 (C/C) FOR RESOLUTION.

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: | CIRCUIT DESIGNATION: |
|-----------------------|--|
| D = 18/4 TP | AN = ANNUNCIATOR KEYPAD CIRCUIT |
| E = 18/2 TP | AV = AUDIBLE/VISUAL NOTIFICATION CIRCUIT |
| F = 14/2 TP | DL = INITIATION DATA CIRCUIT |
| G = AS REQ'D BY MANF. | PW = LOW VOLTAGE POWER CIRCUIT |
| H = 18/2 WEI LOCATION | RC = RELAY CONTROL CIRCUIT |
| J = 14/2 WEI LOCATION | RT = REMOTE TEST STATION POWER |
| | SU = SUPERVISORY CIRCUIT |
| | ZN = INITIATION ZONE CIRCUIT |
- CONDUCTOR TYPE

CIRCUIT DESIGNATION

F(AV01)

CIRCUIT NUMBER
- 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.

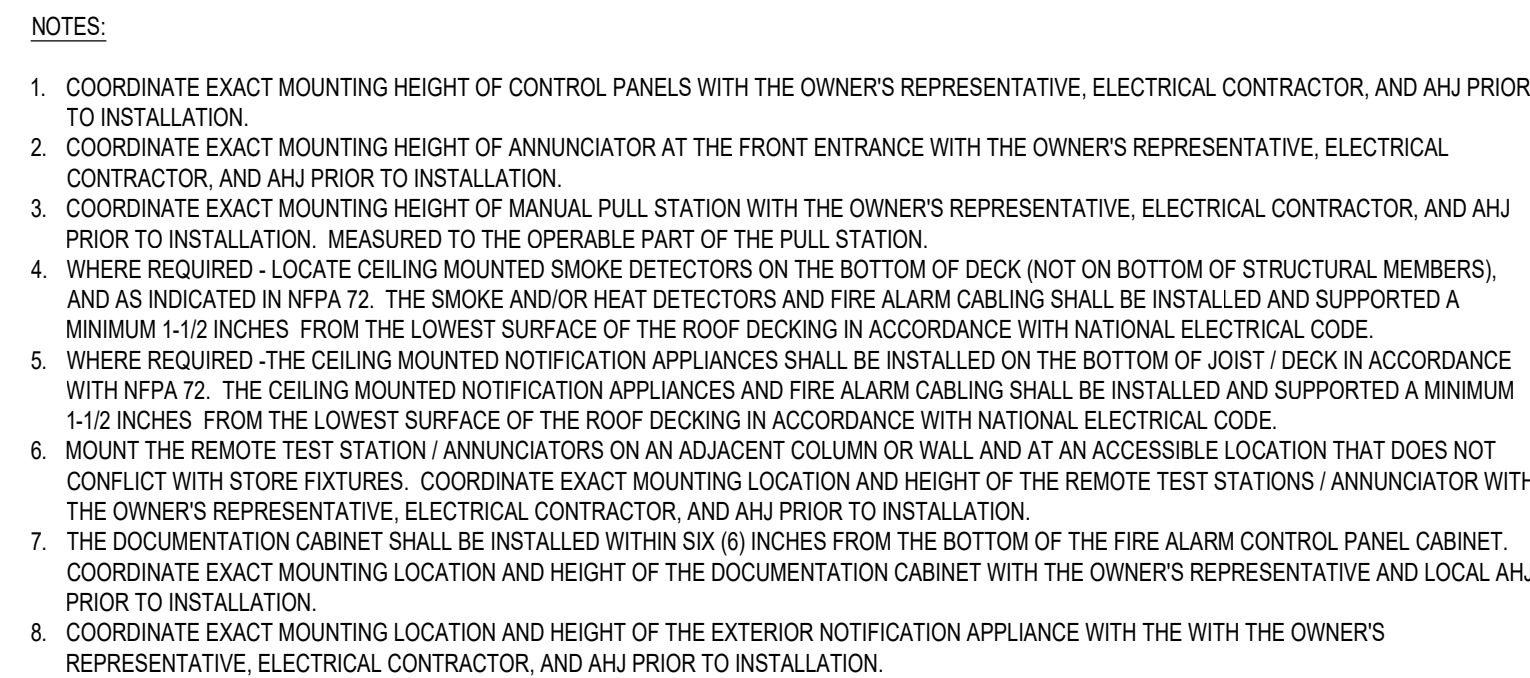
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2020 ER
3561 SW MARKET ST
JACKSON COUNTY
LEE'S SUMMIT, MISSOURI 64082

 <p>STATE OF MISSOURI JACOB P. HEMKE NUMBER PE-200400793 PROFESSIONAL ENGINEER</p> <p><i>Jacob P. Hemke</i> 2020-07-22</p>																
<p>FIRE PROTECTION ENGINEER OF RECORD:</p> <p>JACOB P. HEMKE, PE LICENSE NO. PE-200400793</p> <p>CEO CONSULTANTS, INC. 2043 WOODLAND PKWY, SUITE 300 ST. LOUIS, MO 63146-4259 PHONE: 314.991.2633 CORPORATE CERTIFICATE OF AUTHORITY NO. 000018</p>																
<p>ISSUE BLOCK</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">#</th> <th style="width: 40%;">DATE/16/20</th> <th style="width: 50%;">ADD #1</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">2</td> <td>06/30/20</td> <td>CB #1</td> </tr> <tr> <td style="text-align: center;">3</td> <td>07/23/20</td> <td>IFC SET</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		#	DATE/16/20	ADD #1	2	06/30/20	CB #1	3	07/23/20	IFC SET						
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TO BID:	DATE: ###-##-##															
<p>SHEET TITLE:</p> <p>FIRE ALARM PLAN AND MATRIX</p>																
<p>SHEET NUMBER:</p> <p>FA1</p>																

MODEL NUMBER	DESCRIPTION	QUANTITY	STANDBY POWER		IN ALARM		STANDBY BATTERIES (24-VOLT)	CURRENT (mA)
			CURRENT PER DEVICE (mA)	TOTAL CURRENT (mA)	CURRENT PER DEVICE (mA)	TOTAL CURRENT (mA)		
FIRE-LITE ES-50X	FIRE ALARM CONTROL PANEL	1	141	141	257	257	STANDBY CURRENT	158.50
FIRE-LITE ANN-80	ANNUNCIATOR	1	15	15	40	40	HOURS	24
FIRE-LITE BG-12X	MANUAL PULL STATION	1	0.30	0.30	SEE NOTE 1	SEE NOTE 1	STANDBY mA	3.804
FIRE-LITE SD35S	SMOKE DETECTION	1	0.30	0.30	SEE NOTE 1	SEE NOTE 1	ALARM CURRENT	497.33
FIRE-LITE MMF-300	MONITOR MODULE	4	0.40	1.60	SEE NOTE 1	SEE NOTE 1	HOURS	0.083
FIRE-LITE CRF-300	CONTROL/RELAY MODULE	1	0.30	0.30	SEE NOTE 1	SEE NOTE 1	ALARM mA	41
							TOTAL mA	3.845
							TOTAL AH	3.8
AS INDICATED	MAX DRAIN ALL DEVICES	1	0	0	200	200	CONTINGENCY	20%
							BATTERY TOTAL	4.5
SYSTEM SENSOR	CIRCUIT AVEX	1	0	0	0.176	0.176		
SYSTEM SENSOR	CIRCUIT AV01	1	0	0	0.158	0.158		
TOTAL				158.50		497.33	BATTERY PROVIDED	7

NOTES:

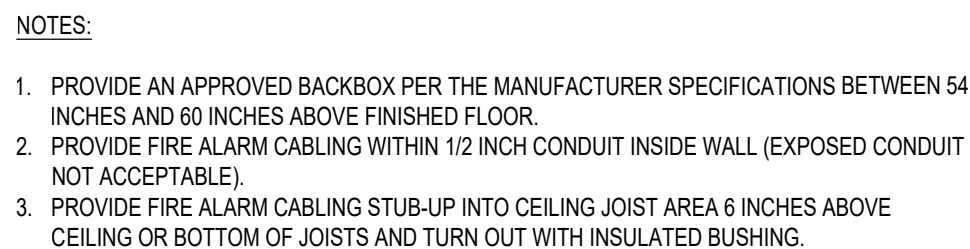
- ALARM CURRENT FOR ADDRESSABLE DEVICES IS CALCULATED BASED ON THE MAXIMUM CURRENT REQUIRED FOR ALL DEVICES.
- BATTERIES IN EXCESS OF 18 AH CANNOT BE INSTALLED IN THE FIRE-LITE ES-50X FACP ENCLOSURE AND MUST BE INSTALLED IN A BATTERY BOX LISTED FOR THAT PURPOSE WITH A PROPERLY SIZED CHARGER



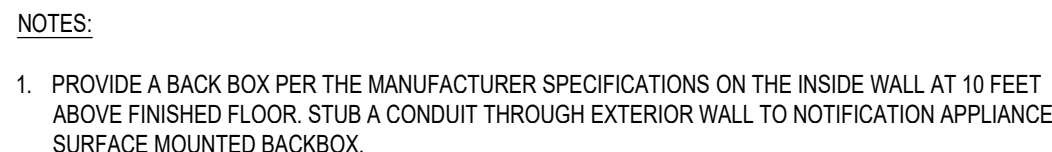
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FA3

TYPICAL

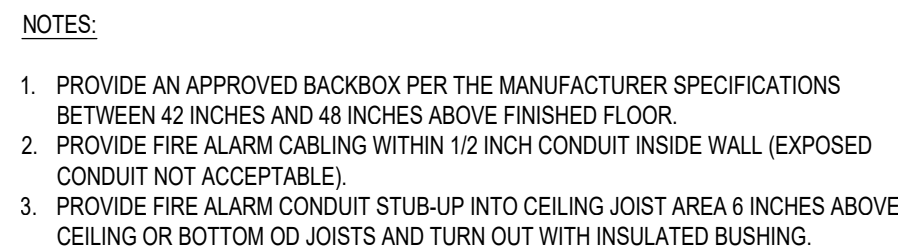
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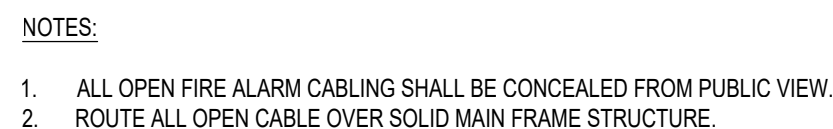
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3
FA3



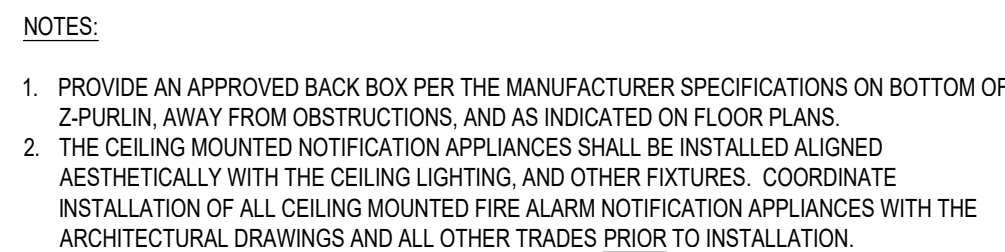
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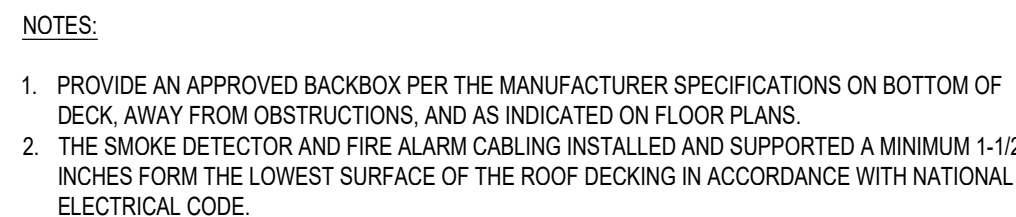
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FA3

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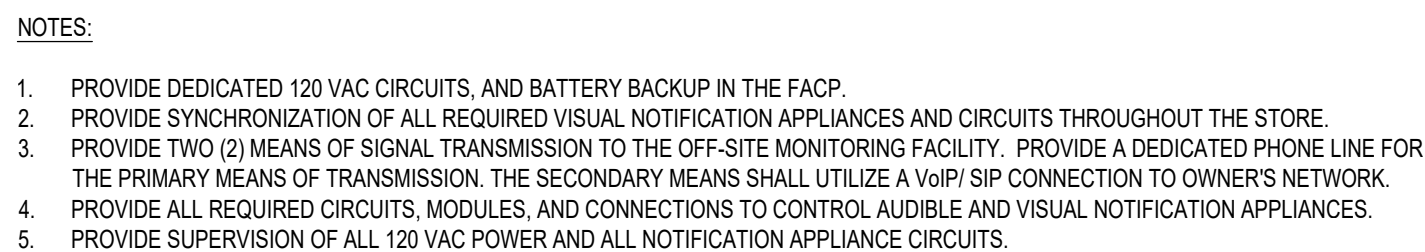
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FA3



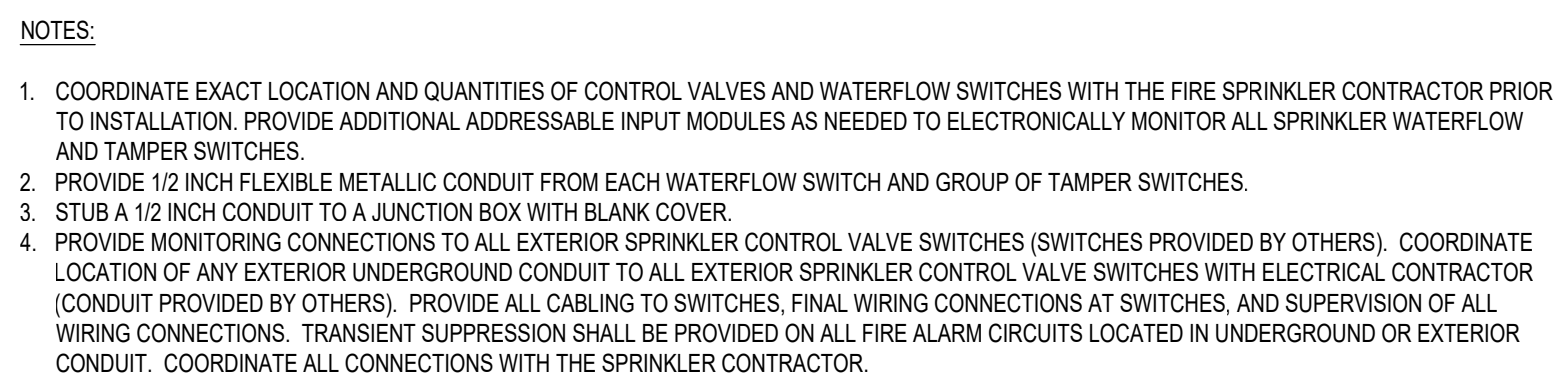
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8
FA3

TYPICAL

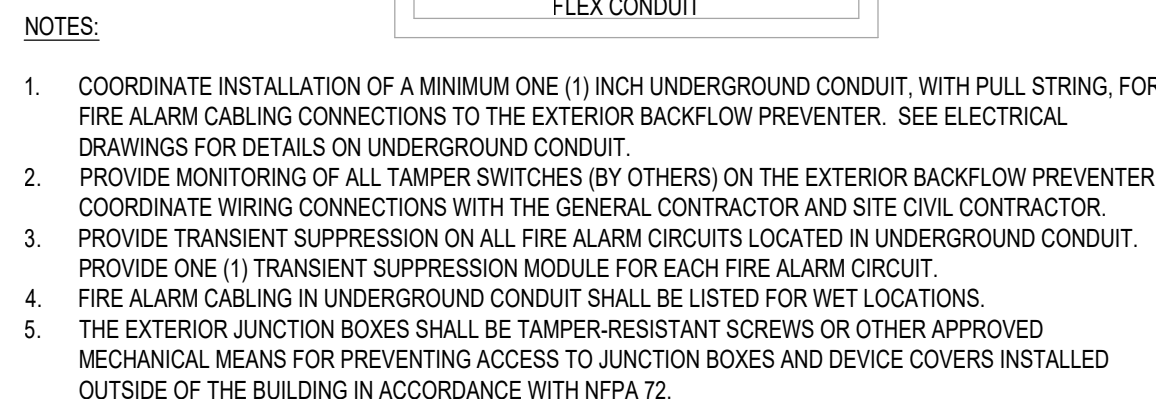
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9
FA3

TYPICAL

NOT TO SCALE



10
FA3



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MISSOURI 64082



PROPERTY NO.:	1600
6 DIGIT NO.:	9069
4 DIGIT NO.:	780

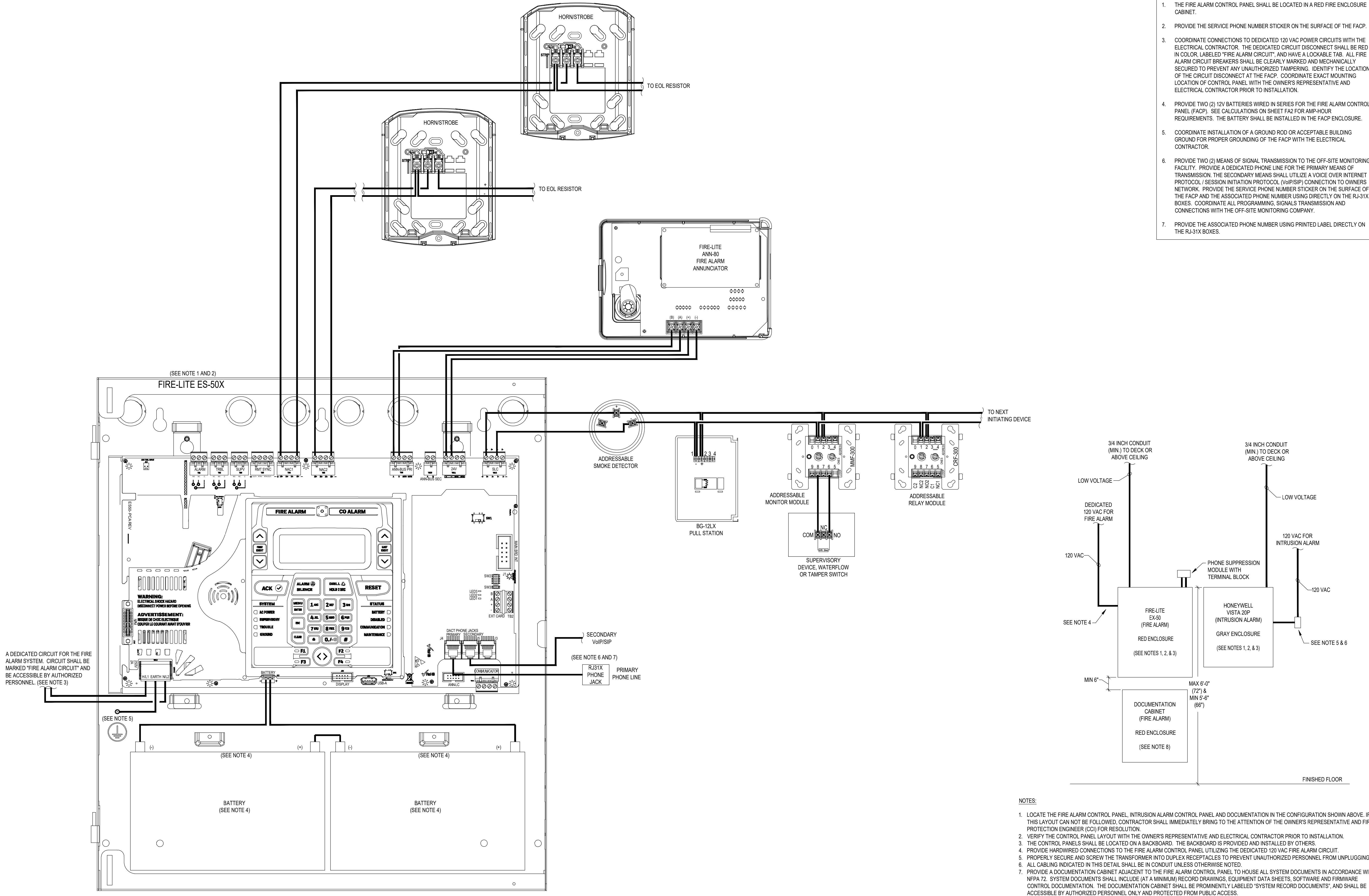
PROPERTY NO.:	1600
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AOR PROJECT NUMBER: 1955B
TO PERMIT: DATE: 03/26/2019
TO BID: DATE: ##-##-##

SHEET TITLE:

FIRE ALARM
DETAILS

SHEET NUMBER:
FA3



1 FIRE ALARM CONTROL PANEL LAYOUT
FA4 NOT TO SCALE

2 TYPICAL CONTROL PANEL LAYOUT
FA4 NOT TO SCALE

FIRE ALARM CONTROL PANEL LAYOUT NOTES

- THE FIRE ALARM CONTROL PANEL SHALL BE LOCATED IN A RED FIRE ENCLOSURE CABINET.
- PROVIDE THE SERVICE PHONE NUMBER STICKER ON THE SURFACE OF THE FACP.
- COORDINATE CONNECTIONS TO DEDICATED 120 VAC POWER CIRCUITS WITH THE ELECTRICAL CONTRACTOR. THE DEDICATED CIRCUIT DISCONNECT SHALL BE RED IN COLOR, LABELED "FIRE ALARM CIRCUIT", AND HAVE A LOCKABLE TAB. ALL FIRE ALARM CIRCUIT BREAKERS SHALL BE CLEARLY MARKED AND MECHANICALLY SECURED TO PREVENT ANY UNAUTHORIZED TAMPERING. IDENTIFY THE LOCATION OF THE CIRCUIT DISCONNECT AT THE FACP. COORDINATE EXACT MOUNTING LOCATION OF CONTROL PANEL WITH THE OWNER'S REPRESENTATIVE AND ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION.
- PROVIDE TWO (2) 12V BATTERIES WIRED IN SERIES FOR THE FIRE ALARM CONTROL PANEL (FACP). SEE CALCULATIONS ON SHEET FA2 FOR AMP-HOUR REQUIREMENTS. THE BATTERY SHALL BE INSTALLED IN THE FACP ENCLOSURE.
- COORDINATE INSTALLATION OF A GROUND ROD OR ACCEPTABLE BUILDING GROUND FOR PROPER GROUNDING OF THE FACP WITH THE ELECTRICAL CONTRACTOR.
- PROVIDE TWO (2) MEANS OF SIGNAL TRANSMISSION TO THE OFF-SITE MONITORING FACILITY. PROVIDE A DEDICATED PHONE LINE FOR THE PRIMARY MEANS OF TRANSMISSION. THE SECONDARY MEANS SHALL UTILIZE A VOICE OVER INTERNET PROTOCOL / SESSION INITIATION PROTOCOL (VoIP/SIP) CONNECTION TO OWNERS NETWORK. PROVIDE THE SERVICE PHONE NUMBER STICKER ON THE SURFACE OF THE FACP AND THE ASSOCIATED PHONE NUMBER USING DIRECTLY ON THE RJ-31X BOXES. COORDINATE ALL PROGRAMMING, SIGNALS TRANSMISSION AND CONNECTIONS WITH THE OFF-SITE MONITORING COMPANY.
- PROVIDE THE ASSOCIATED PHONE NUMBER USING PRINTED LABEL DIRECTLY ON THE RJ-31X BOXES.

CCI
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PHONE: 314-991-2633
CORPORATE CERTIFICATE OF AUTHORITY NO. 000419

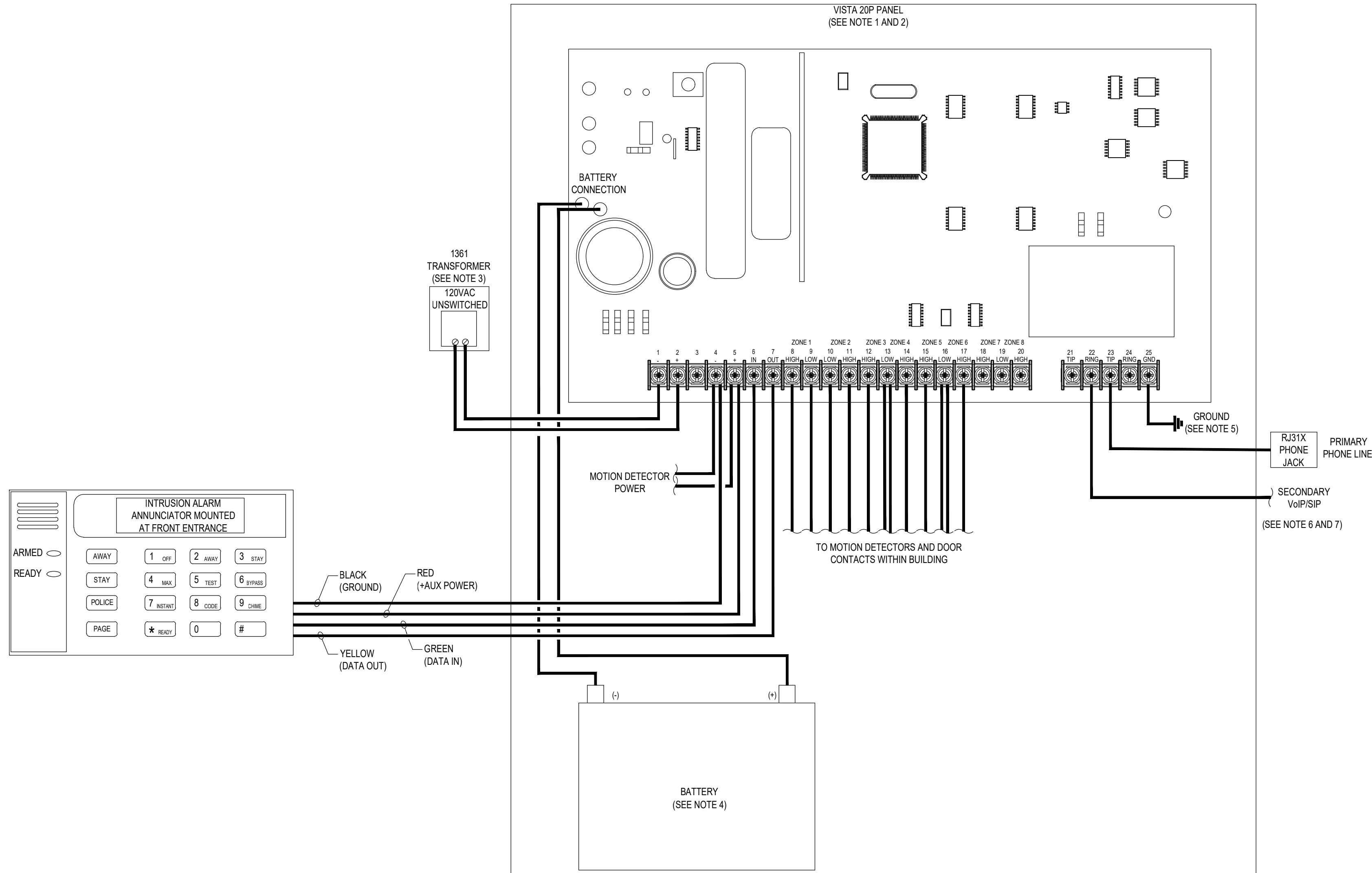
ISSUE BLOCK		
1	04/16/20	ADD #1
2	07/23/20	IFC SET

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

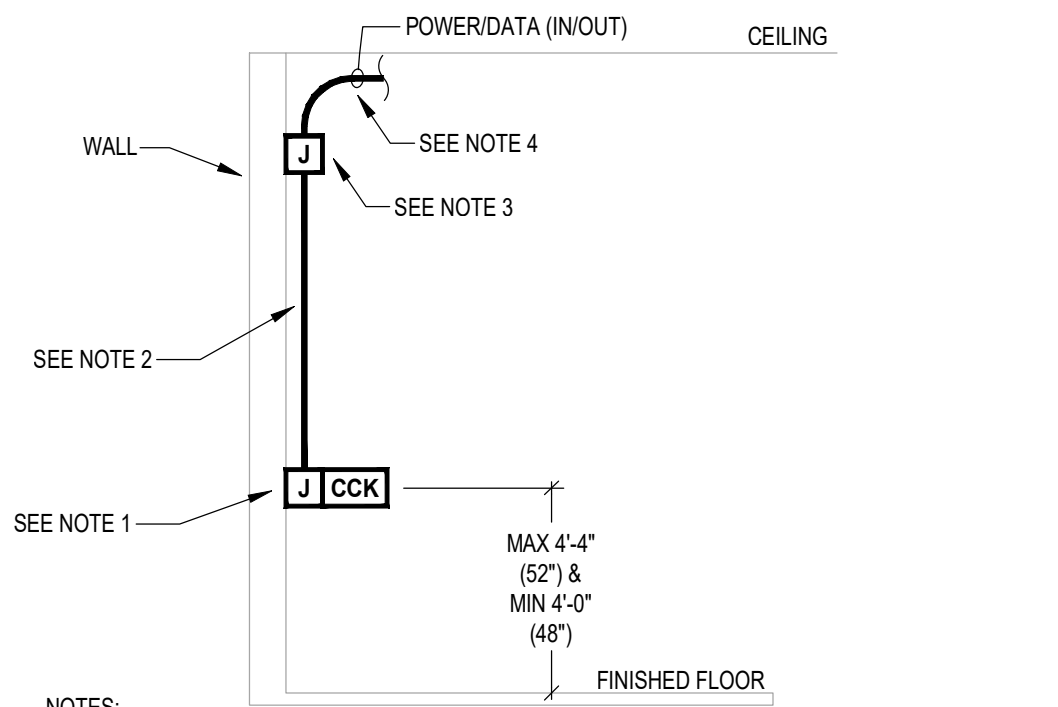
AOR PROJECT NUMBER: 1955B71
TO PERMIT: DATE: 03/26/2020
TO BID: DATE: ###-##-##

SHEET TITLE:
FIRE ALARM CONTROL
PANEL LAYOUT

SHEET NUMBER:
FA4

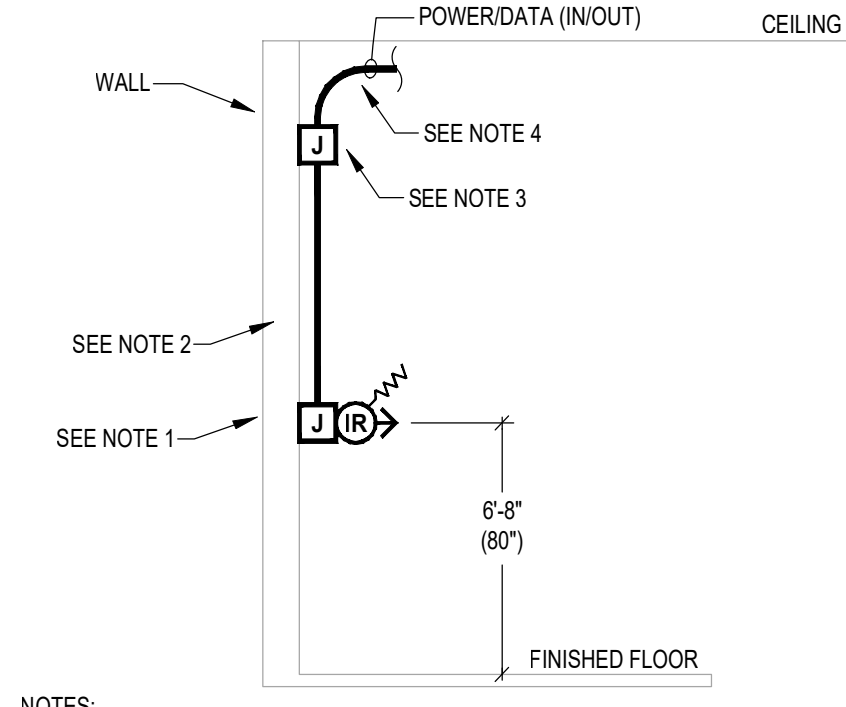


1
BA3
INTRUSION ALARM CONTROL PANEL LAYOUT
NOT TO SCALE



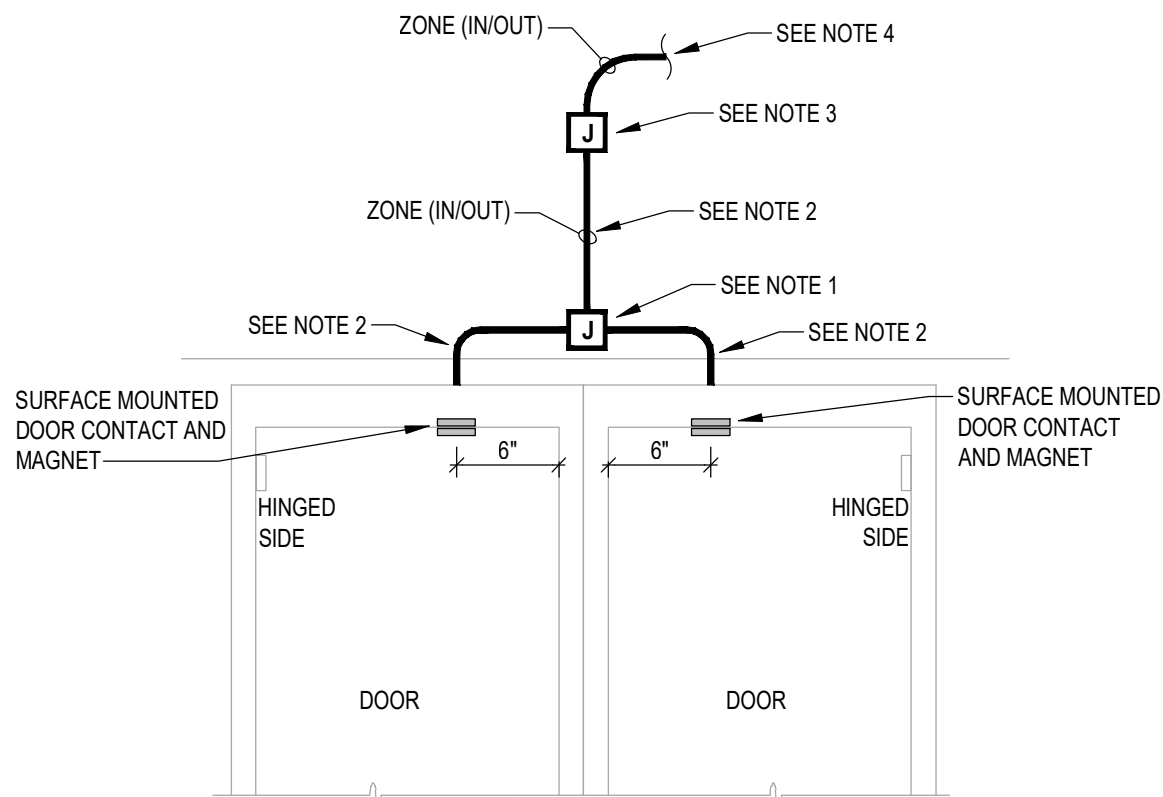
- NOTES:
1. PROVIDE AN APPROVED BACKBOX PER THE MANUFACTURER SPECIFICATIONS BETWEEN 48 INCHES AND 52 INCHES ABOVE FINISHED FLOOR.
 2. PROVIDE INTRUSION ALARM CABLING WITHIN 1/2 INCH CONDUIT INSIDE WALL (EXPOSED CONDUIT NOT ACCEPTABLE).
 3. INTRUSION ALARM CABLING AND CONDUIT SHALL BE STUB-UP TO THE CEILING JOIST AREA 6 INCHES TO THE BOTTOM OF JOISTS AND TURN OUT WITH INSULATED BUSHING.
 4. PROVIDE EXPOSED CABLING PARALLEL AND PERPENDICULAR TO BUILDING STRUCTURE.
 5. COORDINATE EXACT MOUNTING LOCATION OF THE CCK WITH THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.

2
BA3
COMMAND CENTER KEYPAD DETAIL
NOT TO SCALE



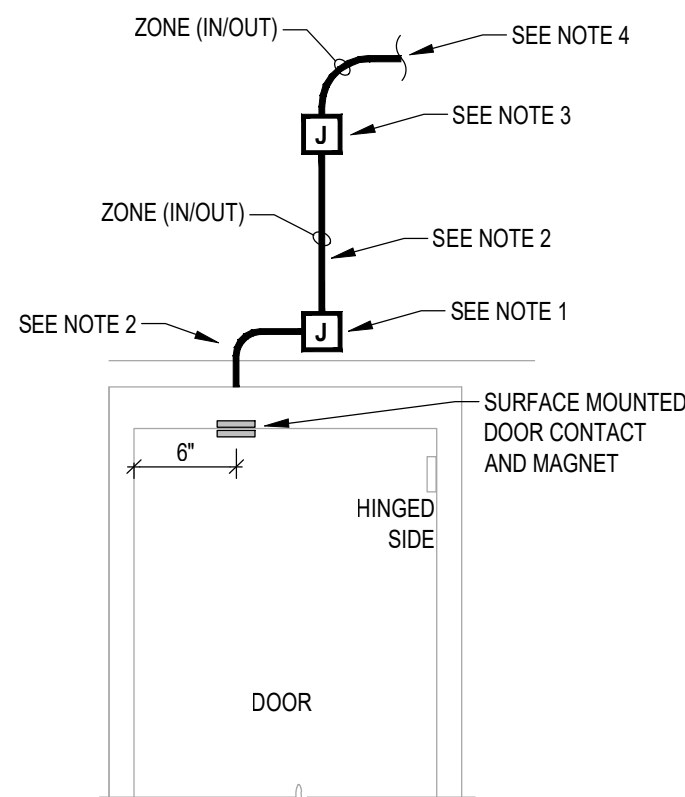
- NOTES:
1. PROVIDE AN APPROVED BACKBOX PER THE MANUFACTURER SPECIFICATIONS (RECOMMENDED TO BE INSTALLED AT 80 INCHES ABOVE FINISHED FLOOR).
 2. PROVIDE FIRE ALARM CABLING WITHIN 1/2 INCH CONDUIT INSIDE WALL (EXPOSED CONDUIT NOT ACCEPTABLE).
 3. INTRUSION ALARM CABLING AND CONDUIT SHALL BE STUB-UP TO THE CEILING JOIST AREA 6 INCHES TO THE BOTTOM OF JOISTS AND TURN OUT WITH INSULATED BUSHING.
 4. PROVIDE EXPOSED CABLING PARALLEL AND PERPENDICULAR TO BUILDING STRUCTURE.
 5. COORDINATE EXACT MOUNTING LOCATION OF THE MOTION DETECTORS WITH THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.

3
BA3
PIR MOTION DETECTOR DETAIL
NOT TO SCALE



- NOTES:
1. INSTALL A RECESSED 4 INCH SQUARE BOX ABOVE CENTERED 4 INCHES ABOVE THE DOOR OPENING. PROVIDE A SURFACED MOUNTED COVER PLATE FOR JUNCTION BOX.
 2. PROVIDE INTRUSION ALARM CABLING WITHIN 1/2 INCH CONDUIT INSIDE WALL (EXPOSED CONDUIT NOT ACCEPTABLE).
 3. INTRUSION ALARM CABLING AND CONDUIT SHALL BE STUB-UP TO THE CEILING JOIST AREA 6 INCHES TO THE BOTTOM OF JOISTS AND TURN OUT WITH INSULATED BUSHING.
 4. PROVIDE EXPOSED CABLING PARALLEL AND PERPENDICULAR TO BUILDING STRUCTURE.
 5. COORDINATE EXACT MOUNTING LOCATION OF THE DOOR CONTACTS WITH THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.

4
BA3
DOUBLE DOOR CONTACT DETAIL
NOT TO SCALE



- NOTES:
1. INSTALL A RECESSED 4 INCH SQUARE BOX ABOVE CENTERED 4 INCHES ABOVE THE DOOR OPENING. PROVIDE A SURFACED MOUNTED COVER PLATE FOR JUNCTION BOX.
 2. PROVIDE INTRUSION ALARM CABLING WITHIN 1/2 INCH CONDUIT INSIDE WALL (EXPOSED CONDUIT NOT ACCEPTABLE).
 3. INTRUSION ALARM CABLING AND CONDUIT SHALL BE STUB-UP TO THE CEILING JOIST AREA 6 INCHES TO THE BOTTOM OF JOISTS AND TURN OUT WITH INSULATED BUSHING.
 4. PROVIDE EXPOSED CABLING PARALLEL AND PERPENDICULAR TO BUILDING STRUCTURE.
 5. COORDINATE EXACT MOUNTING LOCATION OF THE DOOR CONTACTS WITH THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.

5
BA3
SINGLE DOOR CONTACT DETAIL
NOT TO SCALE

- INTRUSION ALARM CONTROL PANEL LAYOUT NOTES
1. THE INTRUSION ALARM CONTROL PANEL SHALL BE LOCATED IN A GRAY ENCLOSURE CABINET.
 2. PROVIDE THE SERVICE PHONE NUMBER STICKER ON THE SURFACE OF THE ICP.
 3. PROVIDE 1361 TRANSFORMER CONNECTED TO A 120 VAC DUPLEX OUTLET FOR THE INTRUSION ALARM CONTROL PANEL (ICP). LABEL THE CIRCUIT BREAKER "INTRUSION ALARM CIRCUIT". THE LOCATION OF THE CIRCUIT DISCONNECT SHALL BE IDENTIFIED AT THE ICP. ALL CIRCUIT BREAKERS SHALL BE CLEARLY MARKED AND MECHANICALLY SECURED TO PREVENT ANY UNAUTHORIZED TAMPERING.
 4. PROVIDE ONE (1) 12V BATTERY FOR THE INTRUSION ALARM CONTROL PANEL (ICP). SEE CALCULATIONS ON SHEET BA2 FOR AMP-HOUR REQUIREMENTS THE BATTERY SHALL BE INSTALLED WITHIN THE ICP CABINET.
 5. COORDINATE INSTALLATION OF A GROUND ROD OR ACCEPTABLE BUILDING GROUND FOR PROPER GROUNDING OF THE ICP AND PS WITH THE ELECTRICAL CONTRACTOR.
 6. PROVIDE TWO (2) MEANS OF SIGNAL TRANSMISSION TO THE OFF-SITE MONITORING FACILITY. PROVIDE A DEDICATED PHONE LINE FOR THE PRIMARY MEANS OF TRANSMISSION. THE SECONDARY MEANS SHALL UTILIZE A VOICE OVER INTERNET PROTOCOL / SESSION INITIATION PROTOCOL (VoIP/SIP) CONNECTION TO OWNERS NETWORK. PROVIDE THE SERVICE PHONE NUMBER STICKER ON THE SURFACE OF THE ICP AND THE ASSOCIATED PHONE NUMBER USING DIRECTLY ON THE RJ-31X BOXES. COORDINATE ALL PROGRAMMING, SIGNALS TRANSMISSION AND CONNECTIONS WITH THE OFF-SITE MONITORING COMPANY.
 7. PROVIDE THE ASSOCIATED PHONE NUMBER USING PRINTED LABEL DIRECTLY ON THE RJ-31X BOXES.

CODE CONSULTANTS, INC.
2043 WOODLAND PKWY, SUITE 300
ST. LOUIS, MISSOURI 63146-4235
314-991-2633
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Firestone
COMPLETE AUTO CARE

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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. HENKE, 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
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ISSUE BLOCK		
1	04/16/20	ADD #1
3	07/23/20	IFC SET

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:
INTRUSION ALARM CONTROL
PANEL LAYOUT AND DETAILS

SHEET NUMBER:
BA3

MECHANICAL SYMBOLS LIST			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SUPPLY DUCTWORK		MANUAL VOLUME DAMPER
	RETURN DUCTWORK		FIRE DAMPER
	EXHAUST DUCTWORK		MOTOR OPERATED DAMPER M.O.D.
	SUPPLY DIFFUSER		FRESH AIR INTAKE
	RETURN GRILLE		TURNING VANES IN ELBOW
	EXHAUST GRILLE		SMOKE DETECTOR
	THERMOSTAT		DIFFUSER TYPE DIFFUSER AIR QUANTITY
	RISE IN DUCTWORK		EQUIPMENT TYPE EQUIPMENT TAG
	DROP IN DUCTWORK		

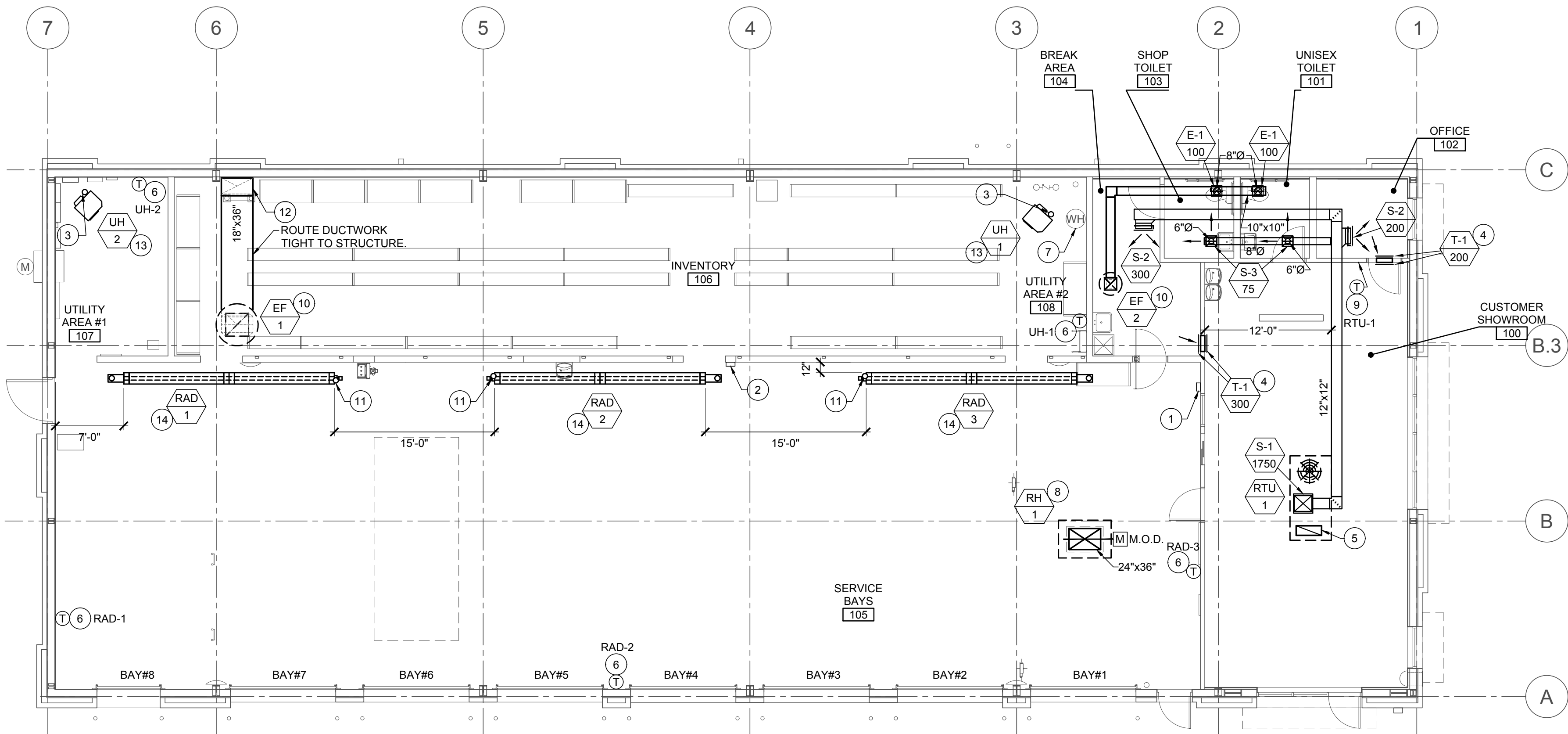
NOTE:
CONTRACTOR SHALL REFER TO SHEET A3 -
ROOF PLAN FOR ACCEPTABLE APPROXIMATE
LOCATIONS OF ROOF PENETRATIONS.

MECHANICAL GENERAL NOTES

1. PROVIDE TOXALERT, INC. VENTILATION CONTROL SYSTEM. COMPLETE WITH (1) CONTROL UNIT, MODEL (GVU-1) AND (1) CO SENSOR, MODEL (GVU-CO), (RANGE 0 TO 250 PPM). PROVIDE OPTIONAL AUDIBLE ALARM WITH SILENCE SWITCH FOR SECOND STAGE ALARM LEVELS; MANUAL OVERRIDE "PURGE" SWITCH OPTION; AND LABELED LED INDICATORS ON FACE OF CONTROLLER (POWER ON, FAN ON AND POWER TO SENSOR). REMOTE SENSOR SHALL BE TEMPERATURE AND HUMIDITY COMPENSATED AND COMPLETE WITH LED'S INDICATING: NORMAL OPERATION, HIGH CO AND MALFUNCTION.
2. VERIFY DIMENSIONS OF UNIT HEATER AND RADIANT HEATER LOCATIONS WITH MANUFACTURER BEFORE INSTALLATION AND COORDINATE WITH LIFT INSTALLER.
3. NO GOOSE NECK OR DOWNTURNS ON LOUVERS OR VENT COVERS TO BE USED.
4. COORDINATE ALL VENT AND EXHAUST FAN PENETRATIONS THRU THE ROOF, WALLS AND FLOORS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
5. REFER TO FIXTURE PLAN SHEET FOR FINAL LOCATIONS AND QUANTITIES OF ALL OPERATIONS EQUIPMENT.
6. ALL DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED STEEL SHEET METAL, AND SHALL BE FABRICATED ACCORDING TO THE LATEST EDITION OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARD OF METAL AND FLEXIBLE DUCTWORK. UNDER NO CIRCUMSTANCE SHALL DUCT BOARD BE ALLOWED.
7. ALL DUCTWORK DIMENSIONS SHOWN ON PLANS ARE CLEAR DIMENSIONS. WHERE INTERNAL DUCT LINER IS REQUIRED BY SPECIFICATIONS, CONTRACTOR SHALL ADJUST DUCTWORK SIZES ACCORDINGLY.
8. ALL INSULATION, JOINING MATERIALS, SEALER, ETC. SHALL HAVE A U.L. FLAME SPREAD CLASSIFICATION OF NO MORE THAN 25 AND A SMOKE DEVELOPMENT RATING NOT MORE THAN 50.
9. ALL EXPOSED DUCTWORK SHALL BE INTERNALLY LINED. REFER TO SPECIFICATIONS FOR DUCT LINER SPECIFIC REQUIREMENTS.
10. SERVICE BAYS SHALL HAVE BSRO PROVIDED CRUSHPROOF TUBING CO. EXHAUST SOURCE CAPTURE SYSTEM. SYSTEM SHALL BE OUT-THE-DOOR WITH ALL REQUIRED FITTINGS AND ADAPTORS.

KEYED PLAN NOTES - THIS SHEET

1. TOXALERT CONTROLLER. SEE MECHANICAL GENERAL NOTES FOR FURTHER INFORMATION.
2. TOXALERT REMOTE CO SENSOR. MOUNT AT 6'-0" A.F.F. SET SENSOR AT 50 ppm. SEE SPECIFICATIONS FOR FURTHER INFORMATION.
3. PROVIDE WITH UNIT HEATER MANUFACTURER'S CONCENTRIC VENT KIT UP THRU ROOF. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS AND CONCENTRIC FLUE DETAIL ON SHEET M2 FOR FURTHER INFORMATION.
4. MOUNT TRANSFER GRILLE AT 12'-0" AFF MINIMUM.
5. ROUTE FULL SIZE RETURN AIR DUCT 6" BELOW DECK. END OPEN AND COVER WITH 1/2"x1/2" GALVANIZED HARDWARE CLOTH.
6. THERMOSTAT SUPPLIED BY MANUFACTURER WITH EACH PIECE OF EQUIPMENT. THERMOSTAT TO BE INSTALLED ON AN INSULATED SUBBASE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND MOUNTED SO THAT THE HIGHEST OPERABLE CONTROL IS NOT MORE THAN 48" AFF. COORDINATE MOUNTING LOCATION SO THERMOSTAT IS NOT LOCATED BEHIND SERVICE EQUIPMENT.
7. ROUTE WATER HEATER FLUE AND INTAKE TIGHT TO WALL. TERMINATE THROUGH ROOF WITH CONCENTRIC VENT KIT. INSTALL PER MANUFACTURER'S INSTRUCTIONS AND PROVIDE REQUIRED CLEARANCES FROM WALL AND ROOF.
8. PROVIDE ROOF MOUNTED INTAKE HOOD AS SCHEDULED AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
9. THE CONTRACTOR SHALL FURNISH HONEYWELL T7351 THERMOSTAT (OR EQUAL) WITH INSULATED SUBBASE. THERMOSTAT TO BE 7 DAY PROGRAMMABLE WITH 4 SETBACK PERIODS PER DAY. THERMOSTAT TO BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. MOUNT THERMOSTAT SO THAT THE HIGHEST OPERABLE CONTROL IS NOT MORE THAN 48" AFF. PROVIDE WITH LOCKABLE COVER.
10. PROVIDE ROOF MOUNTED EXHAUST FAN AS SCHEDULED AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. TRANSITION EXHAUST DUCT AS REQUIRED TO MAKE CONNECTION TO EXHAUST FAN.
11. ROUTE 4"Ø FLUE SEPARATELY THRU ROOF FOR EACH RADIANT HEATER. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS AND DETAIL ON SHEET M2 FOR FURTHER INFORMATION. COORDINATE PENETRATIONS WITH ARCHITECTURAL ROOF PLAN.
12. DROP 36"x18" EXHAUST DUCT DOWN IN LOCATION SHOWN. MOUNT DUCTWORK TO WALL PER SMACNA REQUIREMENTS AND TRANSITION AS REQUIRED TO FAN. TERMINATE AT 3' A.F.F. REFER TO DETAIL ON SHEET M2 FOR FURTHER INFORMATION.
13. SUSPEND GAS FIRED UNIT HEATER FROM ROOF STRUCTURE PER MANUFACTURER'S RECOMMENDATIONS. MOUNT AT 13'-0" AFF. REFER TO DETAIL ON SHEET M2 FOR ADDITIONAL INFORMATION.
14. SUSPEND GAS FIRED RADIANT HEATER FROM ROOF STRUCTURE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. MOUNT AT 13'-4" AFF. REFER TO DETAIL ON SHEET M2 AND SERVICE BAY SECTION ON ARCHITECTURAL DRAWINGS FOR FURTHER INFORMATION.



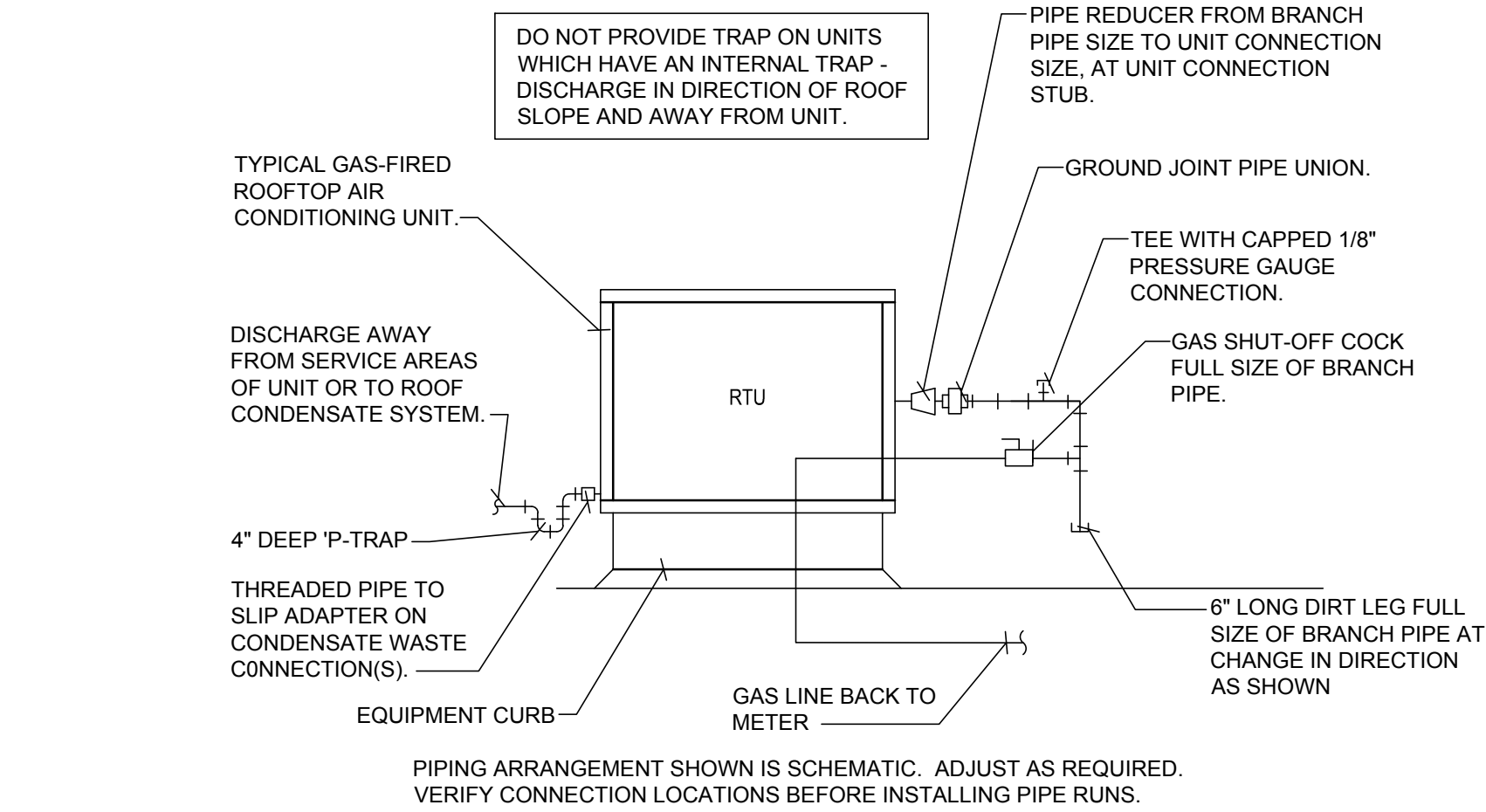
1
M1 MECHANICAL PLAN
SCALE: 1/8" = 1'-0"

ISSUE BLOCK			
1	04/16/20	ADD	#1
2	06/30/20	CB	#1
3	07/23/20	IFC	

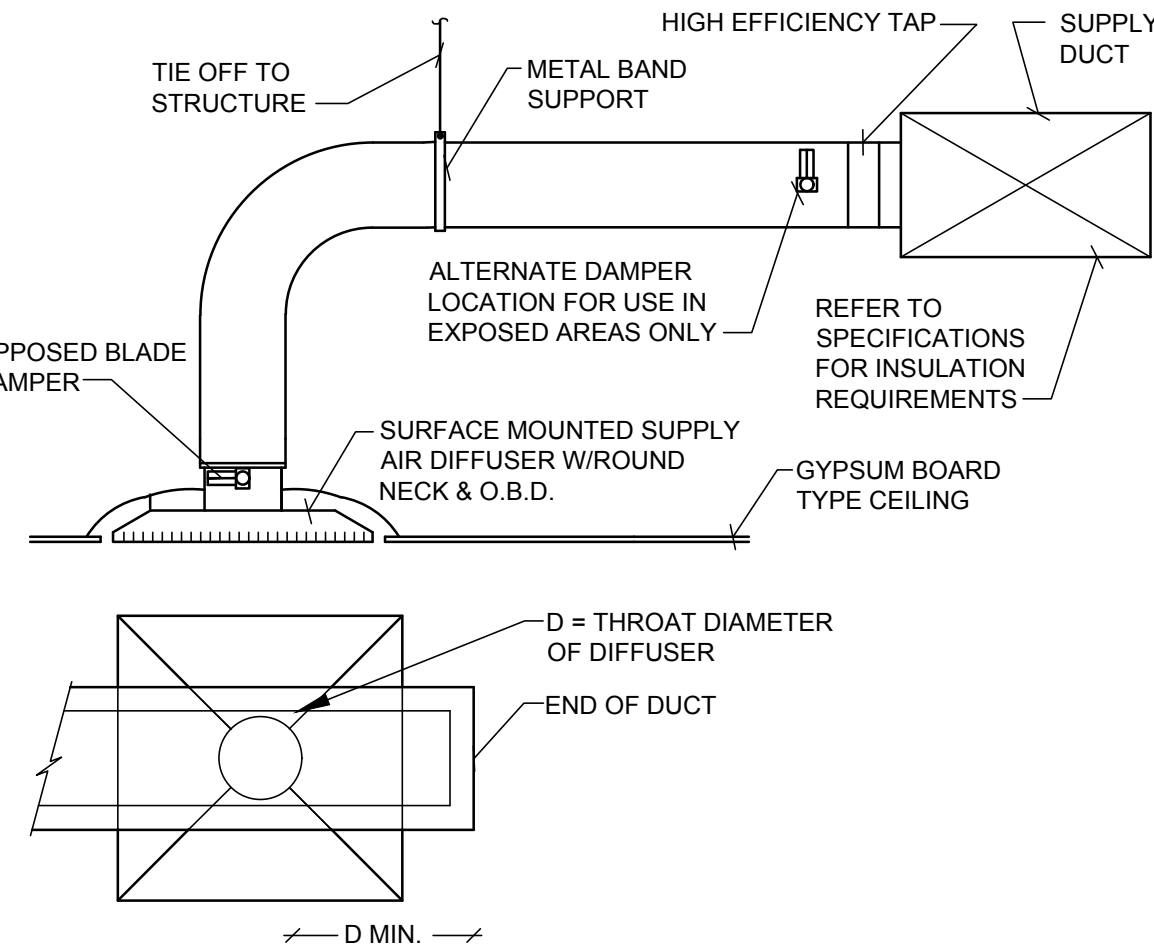
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SHEET TITLE:
MECHANICAL PLAN
AND NOTES

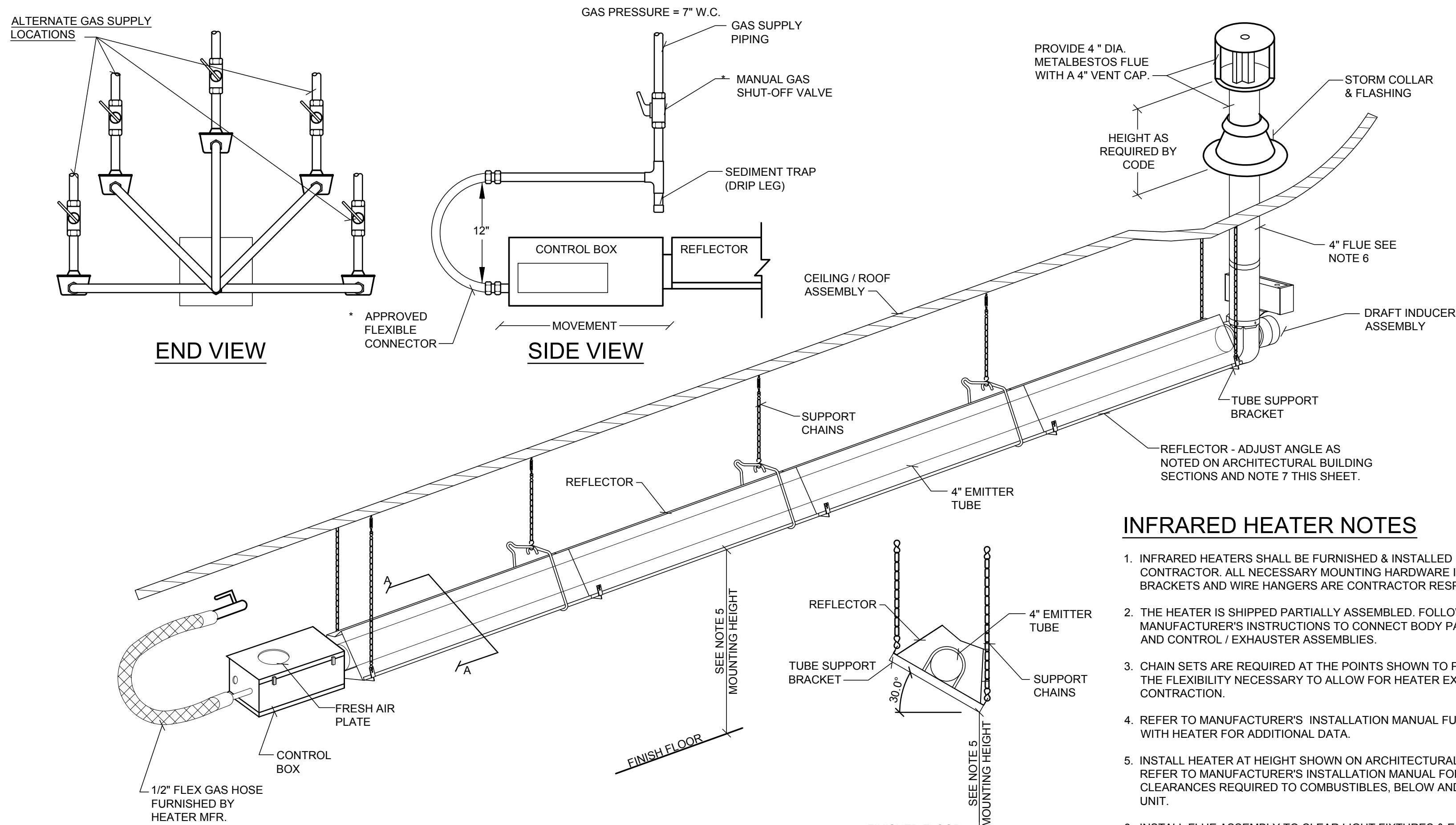
SHEET NUMBER:
M1



1 ROOFTOP UNIT PIPING DETAIL
M2 N.T.S.

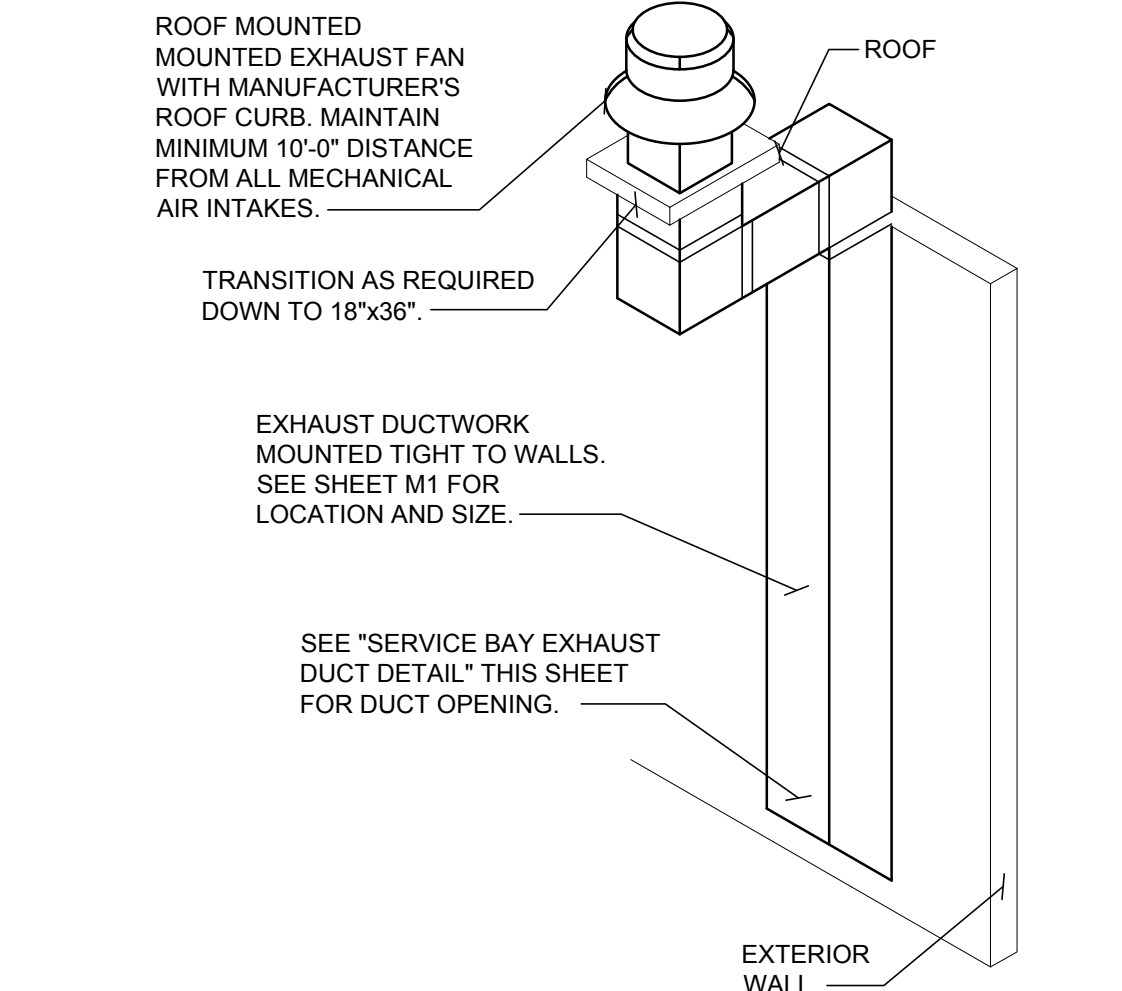


5 SUPPLY AIR DIFFUSER DETAIL
M2 N.T.S.

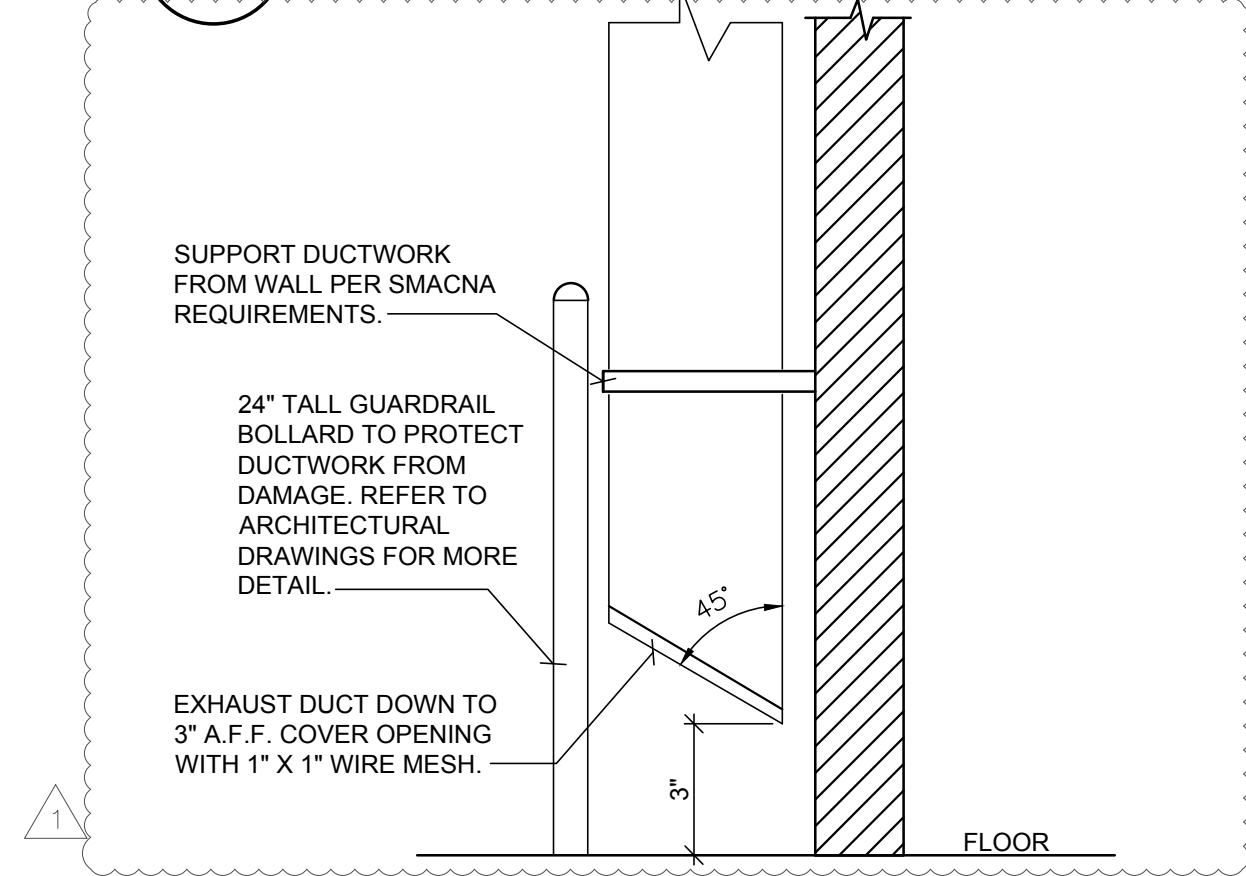


8 GAS FIRED INFRA-RED STRAIGHT TUBE HEATER DETAIL
M2 N.T.S.

DETAIL BY MANUFACTURER FOR REFERENCE ONLY.



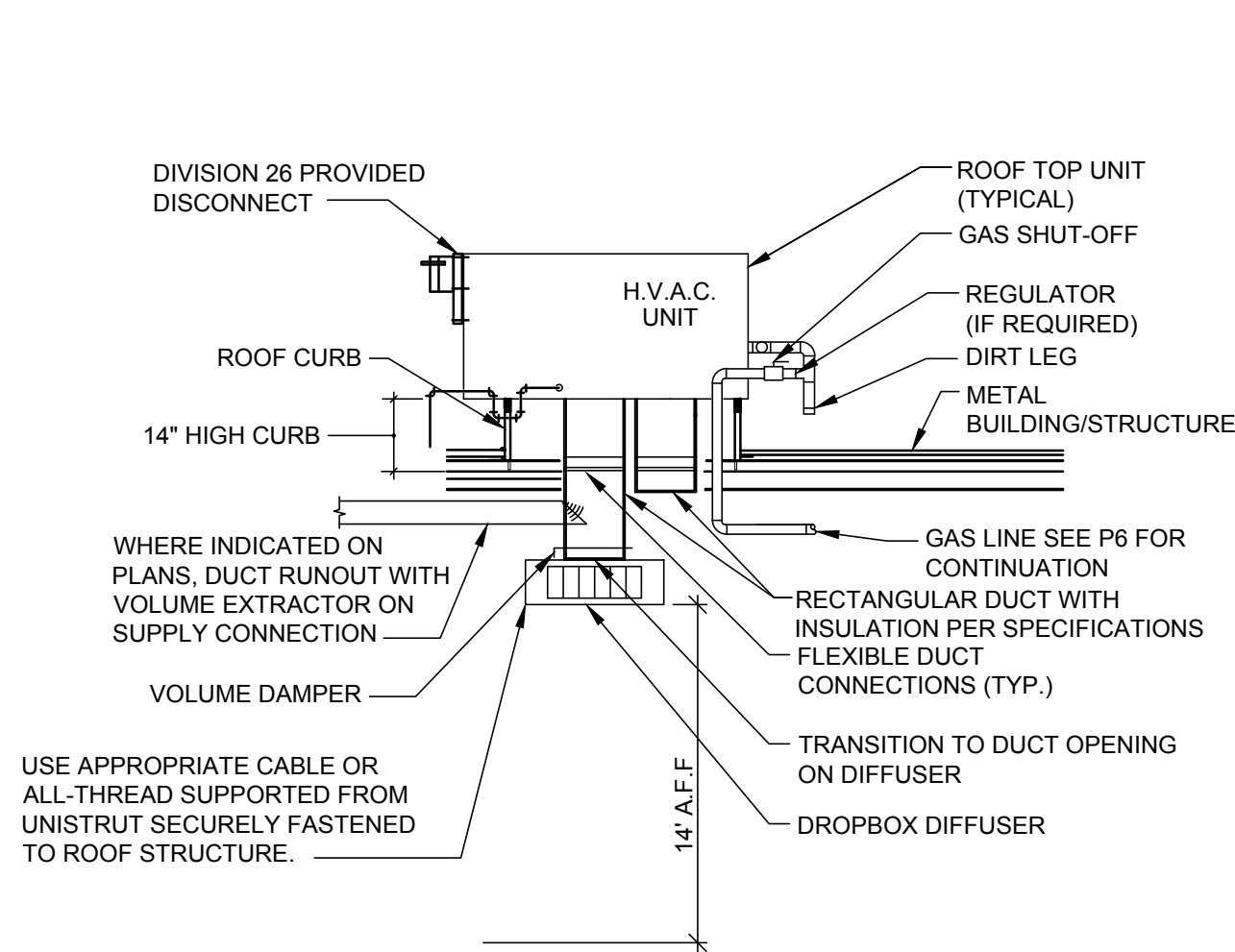
2 SERVICE BAY EXHAUST FAN
M2 N.T.S.



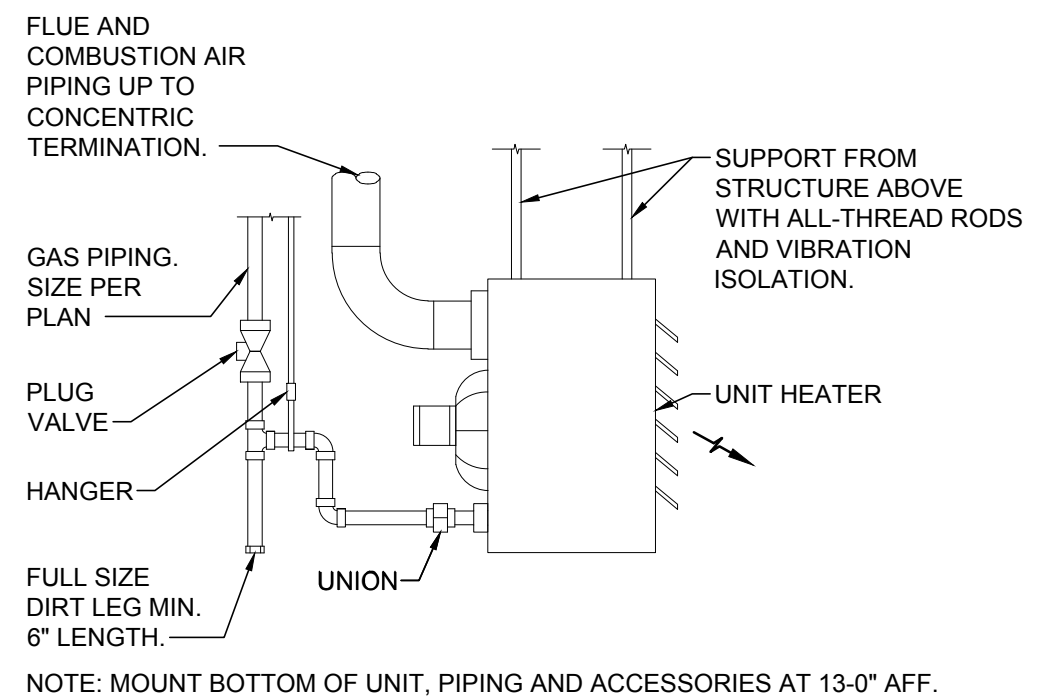
6 SERVICE BAY EXHAUST DUCT DETAIL
M2 N.T.S.

INFRARED HEATER NOTES

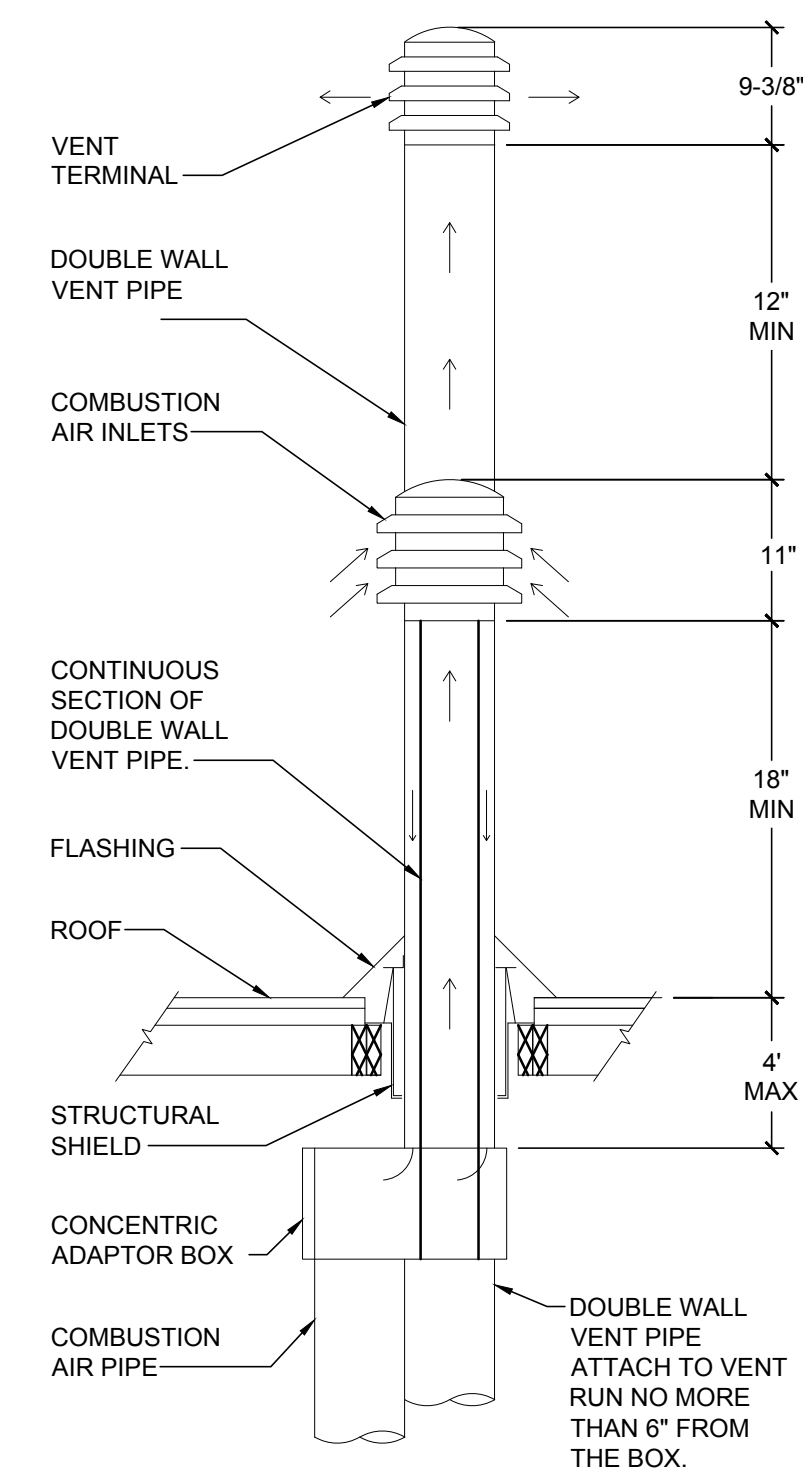
- INFRARED HEATERS SHALL BE FURNISHED & INSTALLED BY CONTRACTOR. ALL NECESSARY MOUNTING HARDWARE INCLUDING BRACKETS AND WIRE HANGERS ARE CONTRACTOR RESPONSIBILITY.
- THE HEATER IS SHIPPED PARTIALLY ASSEMBLED. FOLLOW MANUFACTURER'S INSTRUCTIONS TO CONNECT BODY PACKAGES AND CONTROL / EXHAUSTER ASSEMBLIES.
- CHAIN SETS ARE REQUIRED AT THE POINTS SHOWN TO PROVIDE THE FLEXIBILITY NECESSARY TO ALLOW FOR HEATER EXPANSION & CONTRACTION.
- REFER TO MANUFACTURER'S INSTALLATION MANUAL FURNISHED WITH HEATER FOR ADDITIONAL DATA.
- INSTALL HEATER AT HEIGHT SHOWN ON ARCHITECTURAL SHEET AS. REFER TO MANUFACTURER'S INSTALLATION MANUAL FOR ALL CLEARANCES REQUIRED TO COMBUSTIBLES, BELOW AND ABOVE UNIT.
- INSTALL FLUE ASSEMBLY TO CLEAR LIGHT FIXTURES & EQUIPMENT AND TO PENETRATE ROOF PAST THE RIDGE VENT. SEE ROOF PLAN.
- CONTRACTOR SHALL ROTATE RADIANT HEATER TO A 30° DEG ANGLE PER MANUFACTURER'S INSTRUCTIONS.



3 RTU PACKAGE HVAC DETAIL
M2 N.T.S.

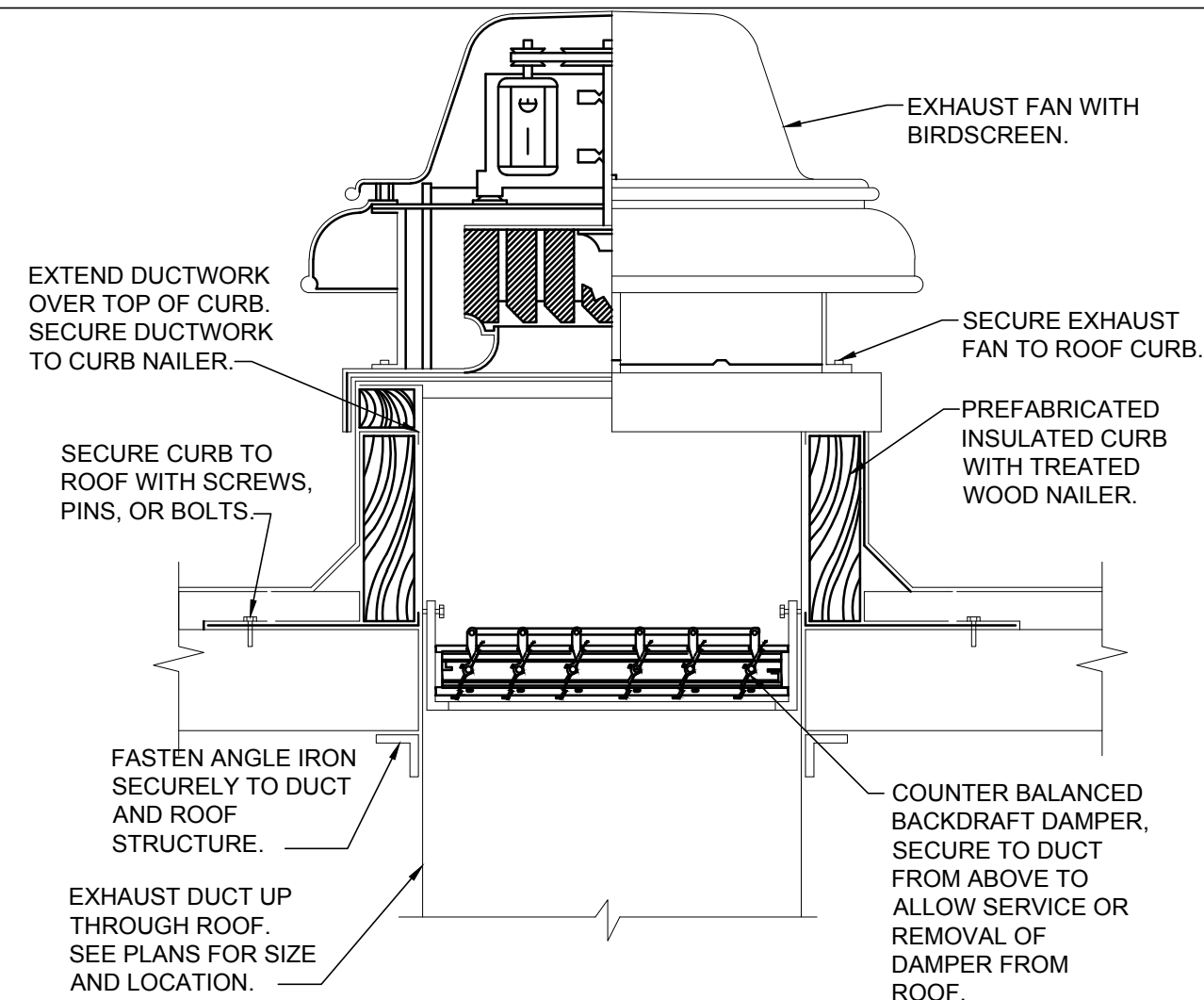


7 GAS FIRED UNIT HEATER DETAIL
M2 N.T.S.



- NOTES:
- ALL MINIMUM METAL GAUGES TO MEET CODE REQUIREMENTS.
 - SUPPORT VERTICALLY AND HORIZONTALLY AS NECESSARY.

9 CONCENTRIC FLUE DETAIL
M2 N.T.S.



4 ROOF MOUNTED EXHAUST FAN DETAIL
M2 N.T.S.

GENERAL DETAIL NOTES

- SUSPEND UNIT HEATERS FROM UNISTRUT CHANNELS MOUNTED TO STRUCTURE WITH VIBRATION ISOLATORS EQUIPPED HANGER RODS OR AN APPROVED EQUAL METHOD.
- ALL EQUIPMENT FURNISHED BY CONTRACTOR SHALL HAVE MAGNETIC STARTERS OF SIZE AND CAPACITIES AS REQD. FOR PROPER EQUIPMENT OPERATION. FURNISH WEATHERPROOF BOXES (NEMA 3R) FOR EXTERIOR USE.
- EXTEND ALL METALBESTOS FLUES OF DIAMETERS SHOWN THROUGH ROOF TO HEIGHT REQUIRED BY CODE WITH ALUMINUM ROUND TOP. PROVIDE VENTILATING THIMBLE THROUGH ROOF FOR CLEARANCE AROUND STACK AND SUPPORT SECURELY. PROVIDE WEATHER TIGHT RAIN COLLAR AND FLASHING AT PENETRATION.
- ALL THERMOSTATS TO BE FURNISHED BY HVAC CONTRACTOR FOR INSTALLATION.
- FURNISH AND INSTALL UL RATED FIRE DAMPERS W/FUSIBLE LINKS AND ACCESS PANELS IN DUCT WORK AT PENETRATIONS OF FIRE RATE ASSEMBLIES AS REQUIRED BY CODE.
- WIRING SCHEMATICS OF ALL HVAC EQUIPMENT SHALL BE FURNISHED BY HVAC CONTRACTOR TO ELECTRICAL CONTRACTOR.
- ADJUST ALL FANS TO PROPER RPM TO ASSURE CFM REQUIRED AND BALANCE ALL GRILLES AND DIFFUSERS TO CFM SHOWN ON DRAWINGS. (±5%)
- WHERE DRAWINGS AND SPECIFICATIONS EXCEED GOVERNING CODE REQUIREMENTS, DESIGN SHALL GOVERN. INSTALL NO WORK CONTRARY TO OR BELOW MINIMUM LEGAL STANDARDS, WHETHER DRAWINGS AND SPECIFICATIONS FULLY COMPLY OR NOT.
- ROUTE ALL PIPING TIGHT TO CEILING AND WALLS, PARALLEL AND PERPENDICULAR TO BUILDING STRUCTURE WHERE POSSIBLE.
- ALL SHUT OFF VALVES TO BE ACCESSIBLE TO ASSOCIATES WITHOUT THE USE OF A LADDER OR STEP-STOOL.

ISSUE BLOCK			
1	04/16/20	ADD	#1
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TO BID: DATE: ##-##-##

SHEET TITLE:
MECHANICAL
DETAILS

SHEET NUMBER:
M2

VENTILATION SCHEDULE PER 2018 INTERNATIONAL MECHANICAL CODE													
ROOM No.	ROOM NAME	CATEGORY	FLOOR AREA SQ. FT.	ORDINANCE REQUIREMENT				ACTUAL VENT.			EXHAUST FAN NUMBER	SUPPLY UNIT NUMBER	REMARKS
				NUMBER OF OCCUPANTS AND/OR FIXTURES	AREA OUTDOOR AIRFLOW RATE	PEOPLE OUTDOOR AIRFLOW RATE	REQUIRED VENTILATION OR EXHAUST (CFM)	SUPPLY CFM	OUTSIDE AIR CFM	EXHAUST CFM			
100	CUSTOMER SHOWROOM	RETAIL	777	12	0.12 CFM PER SQUARE FEET	7.5 CFM PER PERSON	184	1750	300	---	---	RTU-1	
101	UNISEX TOILET	TOILET ROOMS	50	1 FIXTURE	70 CFM PER FIXTURE	---	70	75	---	100	EF-2	RTU-1	EF-2 CONTROLLED BY TOILET ROOM LIGHTS
102	OFFICE	OFFICE	63	1	0.06 CFM PER SQUARE FEET	5 CFM PER PERSON	9	200	20	---	---	RTU-1	
103	SHOP TOILET	TOILET ROOMS	50	1 FIXTURE	70 CFM PER FIXTURE	---	70	75	---	100	EF-2	RTU-1	EF-2 CONTROLLED BY TOILET ROOM LIGHTS
104	BREAK AREA	DINING ROOM	143	4	0.18 CFM PER SQUARE FEET	7.5 CFM PER PERSON	56	300	80	---	---	RTU-1	
105	SERVICE BAYS	AUTOMOTIVE SERVICE STATION	3375	----	1.5 CFM PER SQUARE FEET	---	5063	---	5200	5200	EF-1	---	EF-1 CONTROLLED BY CO SENSOR
106	INVENTORY	UNOCCUPIED	1470	----	---	---	--	---	--	--	--	---	UNOCCUPIED - NO REQUIREMENT
107	UTILITY AREA #1	UNOCCUPIED	182	----	---	---	--	---	---	---	---	---	UNOCCUPIED - NO REQUIREMENT
108	UTILITY AREA #2	UNOCCUPIED	30	----	---	---	--	---	---	---	---	---	UNOCCUPIED - NO REQUIREMENT
	TOTAL		--				5452	2400	5600	5400			

AIR DISTRIBUTION DEVICE SCHEDULE							
MARK	TYPE	MANUFACTURER	MODEL #	FACE	STYLE	BORDER TYPE	FINISH
S-1	SUPPLY	AES	ADB-1	6x12	DROP BOX	DUCT MOUNT	PAINT PER ARCHITECTURAL PLANS
S-2	SUPPLY	TITUS	300RL	20x8	LOUVERED	DUCT MOUNT	PAINT PER ARCHITECTURAL PLANS
S-3	SUPPLY	TITUS	TMS	12x12	LOUVERED	SURFACE MOUNT (TYPE 1)	PAINT PER ARCHITECTURAL PLANS
T-1	TRANSFER	TITUS	350RL	20x8	LOUVERED	SURFACE MOUNT (TYPE 1)	PAINT PER ARCHITECTURAL PLANS
E-1	EXHAUST	TITUS	350	12x12	LOUVERED	SURFACE MOUNT (TYPE 1)	PAINT PER ARCHITECTURAL PLANS
ACCEPTABLE MANUFACTURERS FOR EQUIVALENT OF SCHEDULE PRODUCT (NO OTHER SUBSTITUTIONS WILL BE ALLOWED): * KRUEGER * TUTTLE & BAILEY * MESTEK * CARNES							
NOTES: - ROUND CONNECTION TO MATCH ROUND DUCT DIMENSION AS SHOWN ON FLOOR PLAN. - SUPPLY AND RETURN AIR DIFFUSERS SHALL BE SELECTED AT A MAX NOISE CRITERIA OF 30.							

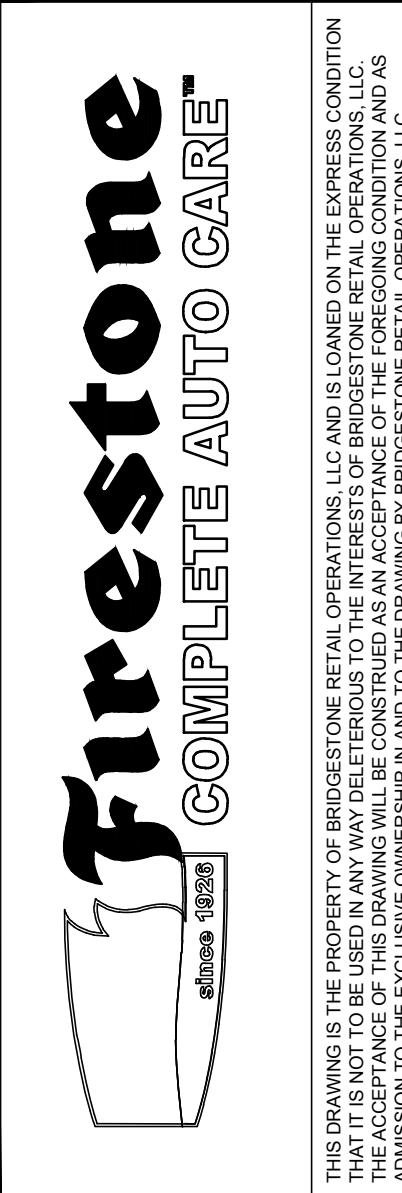
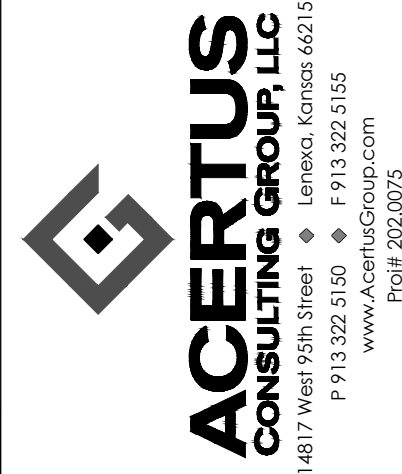
GAS FIRED UNIT HEATER SCHEDULE												
TAG	AREA SERVING	MFR.	MODEL	MBH INPUT	MBH OUTPUT	AFUE	CFM	WEIGHT	MOTOR			
									FLA	MOCP	PHASE	VOLTS
UH-1	INVENTORY	REZNOR	UDAS30	30	26.4	82	456	55	1.9	15	1	115
UH-2	UTILITY AREA	REZNOR	UDAS30	30	26.4	82	456	55	1.9	15	1	115
ACCEPTABLE MANUFACTURERS FOR EQUIVALENT OF SCHEDULE PRODUCT (NO OTHER SUBSTITUTIONS WILL BE ALLOWED): * STERLING * LENNOX * MODINE												
NOTES: 1. UNIT SHALL BE COMPLETE WITH CONTROL TRANSFORMER RELAY PACKAGE, 24V REVERSE ACTING THERMOSTAT WITH NIGHT SETBACK. 2. PROVIDE SHUTOFF COCK AT EACH BURNER. 3. UNIT TO HAVE VERTICAL VENT TERMINAL AND CONCENTRIC ADAPTER. 4. VIBRATION ISOLATION HANGER RODS OR APPROVED EQUAL.												

GAS FIRED STRAIGHT TUBE RADIANT HEATER SCHEDULE										
TAG	MANUFACTURER	MODEL	INPUT MBH	GAS CONNECTION	ELECTRICAL DATA				TUBE TYPE	TUBE LENGTH
					VOLTS	PHASE	START DRAW	RUN DRAW		
RAD-1,2,3	SPACE RAY	ETS75	75	1/2" Ø	120	1Ø	3.0 AMP	2.6 AMP	STRAIGHT	20 FT
ACCEPTABLE MANUFACTURERS FOR EQUIVALENT OF SCHEDULE PRODUCT (NO OTHER SUBSTITUTIONS WILL BE ALLOWED): * DETROIT RADIANT PRODUCTS / RE-VERBER-RAY * ROBERTS / GORDON, INC.										
NOTES: 1. HEATERS SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. 2. EACH HEATER SHALL BE CONTROLLED BY A MANUFACTURER SUPPLIED NIGHT SETBACK DIGITAL THERMOSTATS, MOUNTED 4'-0" ABOVE THE FINISHED FLOOR. SEE MECHANICAL PLAN FOR LOCATIONS. 3. HEATERS SHALL BE "PULL (NEGATIVE PRESSURE OR VACUUM) THROUGH" SYSTEMS WITH CAST IRON BURNERS AND CALORIZED EMITTER TUBES (ALC OPTION). THE EMITTER TUBES SHALL BE CALORIZED FOR LONGEVITY, CORROSION RESISTANCE AND HIGH RADIANT EFFICIENCY. HOT ROLLED EMITTER TUBES ARE NOT ALLOWED. 4. HEATERS SHALL OPERATE UNDER A NEGATIVE PRESSURE AT ALL TIMES TO PRECLUDE THE ESCAPE OF COMBUSTION GASSES INSIDE OF THE BUILDING. 5. UNIT TO BE SHUT OFF WHEN TOX ALERT IS ACTIVATED. (BY C.O. SENSOR.) 6. HEATERS SHALL BE FURNISHED WITH END REFLECTORS (2 - PAIRS).										

GAS FIRED ROOFTOP UNIT SCHEDULE																	
TAG	MFR.	MODEL	NOMINAL TON	ENTERING AIR CONDITIONS	ARI EER	SUPPLY CFM	RETURN CFM	O.A. CFM	TOTAL S.P.	FAN MOTOR HP	GAS MBH		ELECTRICAL DATA				WT.
											INPUT	OUTPUT	VOLTS	PHASE	FLA	MOCP	
RTU-1	LENNOX	KG4072	6	78.5°F DB 62.2°F WB @ 105°F AMBIENT	11.2	2400	2000	400	0.8	2	108	86	208	3Ø	29.5	50	1100
ACCEPTABLE MANUFACTURERS FOR EQUIVALENT OF SCHEDULE PRODUCT (NO OTHER SUBSTITUTIONS WILL BE ALLOWED): * CARRIER * YORK * TRANE																	
NOTES: 1. MECHANICAL UNIT SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. 2. PROVIDE UNIT WITH UNPOWERED GFCI CONVENIENCE OUTLET. 3. PROVIDE NEW FILTERS IN UNIT AFTER ALL DUCTWORK HAS BEEN COMPLETED AND PRIOR TO TEST AND BALANCING OF UNIT. 4. PROVIDE WITH DIFFERENTIAL ENTHALPY TYPE ECONOMIZER WITH BAROMETRIC RELIEF DAMPER. 5. PROVIDE UNIT WITH 14" HIGH ROOF CURB WITH SECURITY BARS. 6. PROVIDE UNIT WITH FACTORY INSTALLED HINGED ACCESS PANELS. 7. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH. 8. PROVIDE WITH FACTORY MOUNTED SUPPLY AND RETURN AIR SMOKE DETECTORS. 9. PROVIDE UNIT WITH WATER SENSING SWITCH IN CONDENSATE PAN. HIGHER THAN PRIMARY DRAIN LINE CONNECTION AND BELOW THE OVERFLOW RIM. UNIT SHALL SHUT DOWN UPON ALARM FROM SWITCH.																	

EXHAUST FAN SCHEDULE									
TAG	DESCRIPTION	MFR.	MODEL	CFM	ESP	MOTOR			NOTES
						HP / WATTS	PHASE	VOLTS	
EF-1	SERVICE AREA EXHAUST FAN	COOK	ACE-210C9B	5200	1.0	2.0	3	208	1,2,4,5,6
EF-2	TOILET EXHAUST FAN	COOK	ACE-60C3B	200	.5	0.25	1	115	1,3,5,6
ACCEPTABLE MANUFACTURERS FOR EQUIVALENT OF SCHEDULE PRODUCT (NO OTHER SUBSTITUTIONS WILL BE ALLOWED): * GREENHECK * PENN									
NOTES: 1. PROVIDE WITH 14" ROOF CURB, BACKDRAFT DAMPER AND BIRD SCREEN. 2. ALL THREE PHASE EXHAUST FANS ARE TO BE COMPLETE WITH COMBINATION MAGNETIC MOTOR STARTER. PROVIDED BY ELECTRICAL CONTRACTOR. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. 3. INTERLOCKED WITH TOILET ROOM LIGHTING. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION. 4. ACTIVATED BY TOXALERT C.O. SENSOR. MOUNT FAN AS HIGH AS POSSIBLE. 5. ALL DISCONNECTS PROVIDED BY ELECTRICAL CONTRACTOR. 6. ALL SWITCHES, INTERLOCKS, RELAYS, TRANSFORMERS, TIMECLOCKS, ETC., SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. SEE ELECTRICAL PLANS.									

ROOF HOOD SCHEDULE									
TAG	DESCRIPTION	MFR.	MODEL	CFM	NECK SIZE (IN)	DAMPER			
						HP	PHASE	VOLTS	MODEL
RH-1	TOX ALERT INTAKE ROOF HOOD	COOK	24x36GI	5200	24 x 36	FRAC.	1	115	---
ACCEPTABLE MANUFACTURERS FOR EQUIVALENT OF SCHEDULE PRODUCT (NO OTHER SUBSTITUTIONS WILL BE ALLOWED): * GREENHECK									
NOTES: 1. PROVIDE WITH BIRD / INSECT SCREEN. 2. PROVIDE WITH 120 VOLT MOTORIZED DAMPER INTERLOCKED WITH EF-1. 3. ALL MOTORIZED DAMPERS SHALL BE WIRED TO BE OPEN WHEN CORRESPONDING EQUIPMENT IS ENERGIZED. 4. ALL DAMPERS SHALL DEFAULT TO SPRING SHUT WHEN POWER LOSS OCCURS OR WHEN NOT IN USE. 5. PROVIDE WITH MANUFACTURER'S 14" ROOF CURB.									

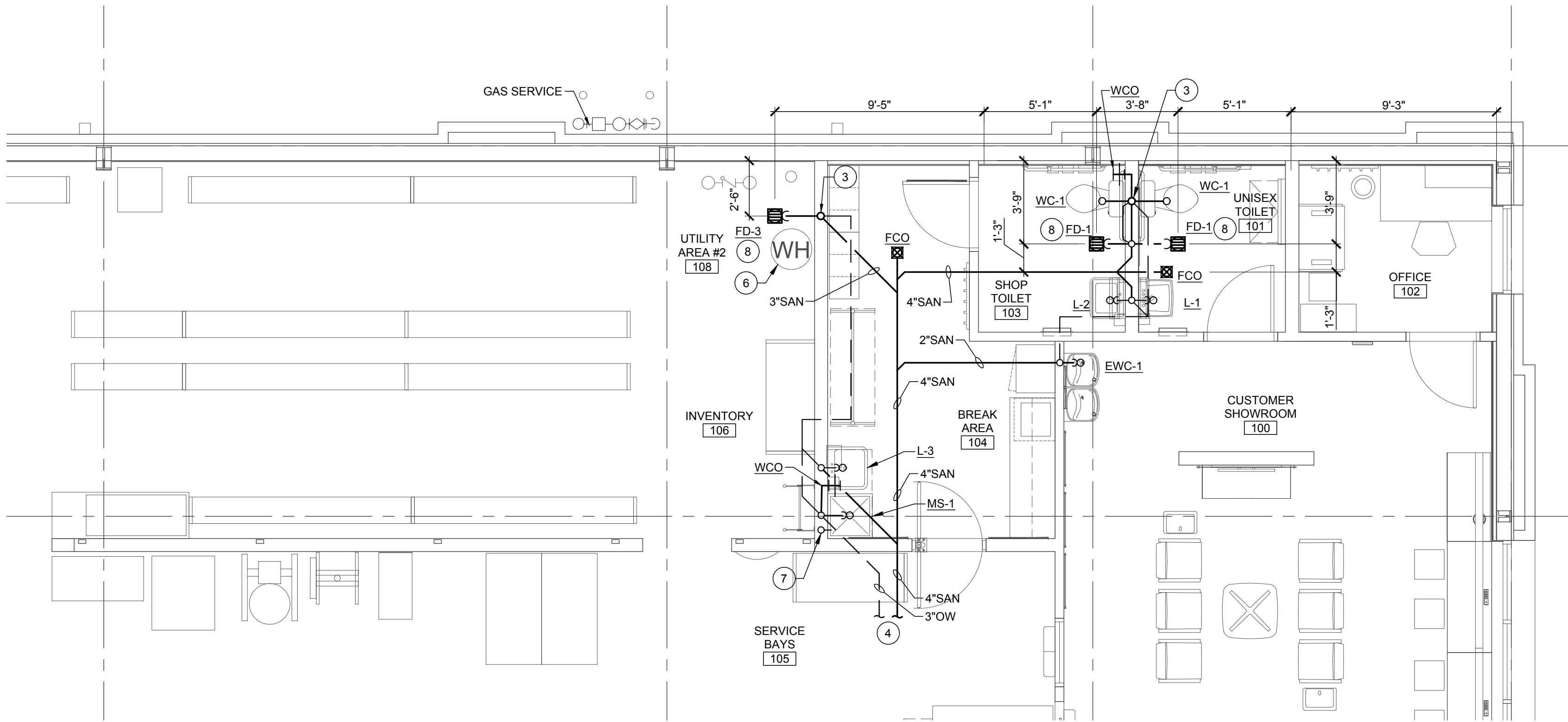


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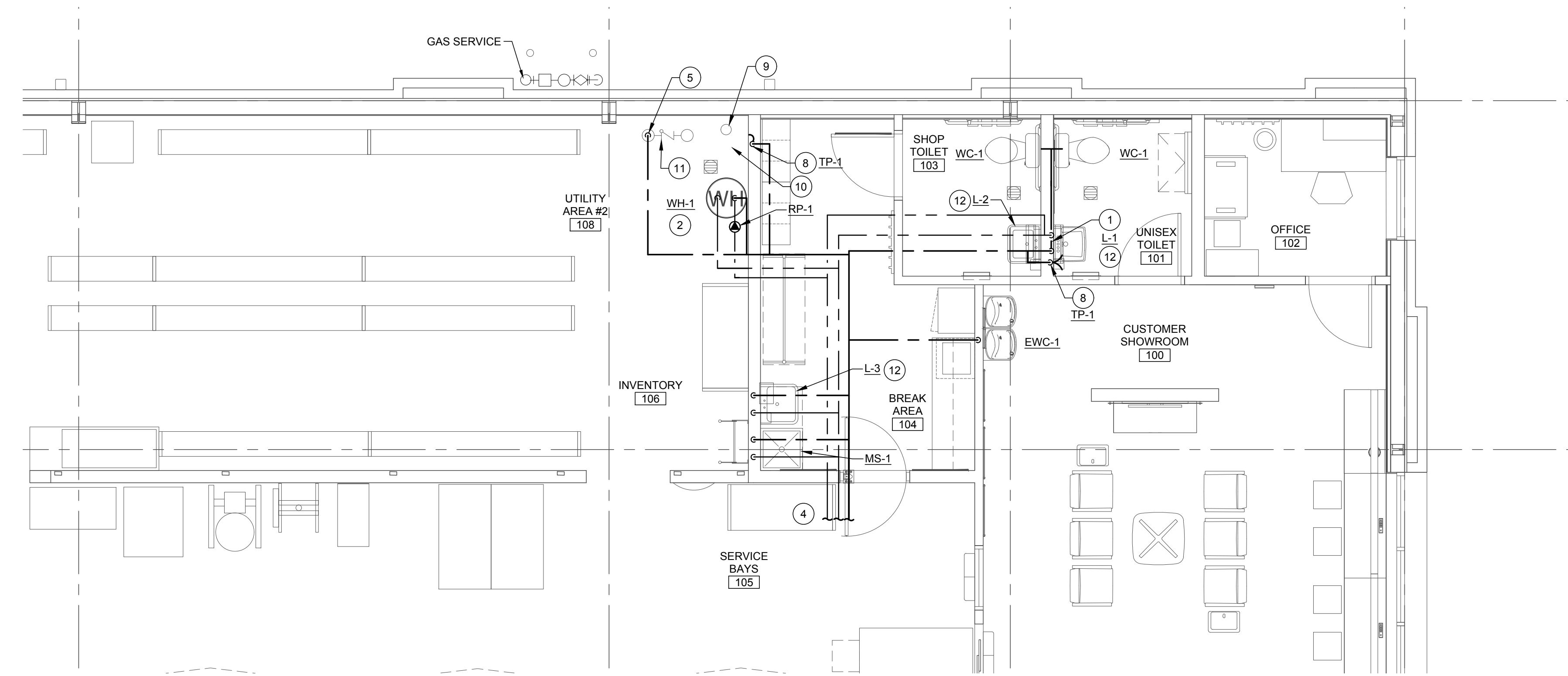
NEW FCAC STORE
2020 ER
3561 SW MARKET ST
JACKSON COUNTY
LEE'S SUMMIT, MISSOURI 64082



ISSUE BLOCK			
1	04/16/20	ADD	#1
2	06/30/20	CB	#1
3	07/23/20	IFC	
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: MECHANICAL EQUIPMENT SCHEDULES			
SHEET NUMBER: M3			



1
P2 RESTROOM ENLARGED SANITARY PLAN
SCALE: 1/4" = 1'-0"



2
P2 RESTROOM ENLARGED WATER PLAN
SCALE: 1/4" = 1'-0"

KEYED PLAN NOTES (THIS SHEET ONLY)

- ROUTE DOMESTIC WATER DOWN WITH-IN WALL TO FIXTURES.
- WATER HEATER LOCATED ON 18" STAND IN INVENTORY ROOM.
- 3" VENT UP IN WALL TO 4" VENT THRU ROOF.
- SEE PLUMBING PLAN ON SHEET P1 FOR CONTINUATION
- DOMESTIC WATER SERVICE, EXTEND OUT 5'-0" FROM BUILDING. REFER TO CIVIL DRAWINGS FOR COORDINATION.
- DRAIN PAN DRAIN LINE AND T&P DRAIN LINE FROM WATER HEATER WH-1. ROUTE DOWN TO FLOOR DRAIN, TERMINATE OVER FLOOR DRAIN WITH CODE REQUIRED AIR GAP.
- VERIFY LOCAL REQUIREMENTS FOR CONDENSATE DISPOSAL. ROUTE FULL SIZE OF RTU CONNECTION TO NEAREST ROOF DOWNSPOUT WITH 1/8" PER FOOT SLOPE AND TERMINATE WITH AIR GAP PER CODE. IF CITY REQUIRES CONDENSATE DISPOSAL TO SANITARY, ROUTE FULL SIZE CONDENSATE LINE TO MOP SINK. ROUTE PIPE AT AN 1/8" PER FOOT SLOPE HORIZONTALLY AND TIGHT TO WALL VERTICALLY. PROVIDE CODE REQUIRED AIR GAP.
- ROUTE 1/2" COPPER LINE AS NEEDED UNDER SLAB FROM TRAP PRIMER DISTRIBUTION UNIT, LOCATED IN ACCESS PANEL IN WALL OPEN TO UTILITY AREA AND RESTROOM, TO APPROPRIATE FLOOR DRAINS. REFER TO PLUMBING ISOMETRIC ON SHEET P6 AND DETAIL ON SHEET P5 FOR MORE INFORMATION.
- FIRE RISER INLET. REFER TO SPECIFICATIONS, FIRE PROTECTION DRAWINGS AND CIVIL DRAWINGS FOR MORE INFORMATION.
- FIRE RISER FLOOR AREA. REFER TO SPECIFICATIONS AND FIRE PROTECTION DRAWINGS FOR MORE INFORMATION.
- AMES MODEL LF4000B REDUCED PRESSURE BACKFLOW PREVENTOR. SEE DETAIL ON SHEET P5 FOR ADDITIONAL INFORMATION.
- PROVIDE MIXING VALVE TMV-1 SET AT 110° F. INSTALL MIXING VALVE UNDER SINK.

SLOPE OF HORIZONTAL DRAINAGE PIPE	
SIZE	MINIMUM SLOPE
2-1/2" OR LESS	1/4" / ft OR 2%
3" TO 6"	1/8" / ft OR 1%

NOTE:
SCHEDULE BASED ON 2018 INTERNATIONAL PLUMBING CODE, SECTION 704 - TABLE 704.1.

NOTE:
ROUTE ALL WATER PIPING TIGHT TO CEILING AND WALLS WHERE POSSIBLE. NO PIPING SHALL BE ROUTED IN UNCONDITIONED SPACES. ALL PIPING SHALL BE INSULATED AND LABELED.

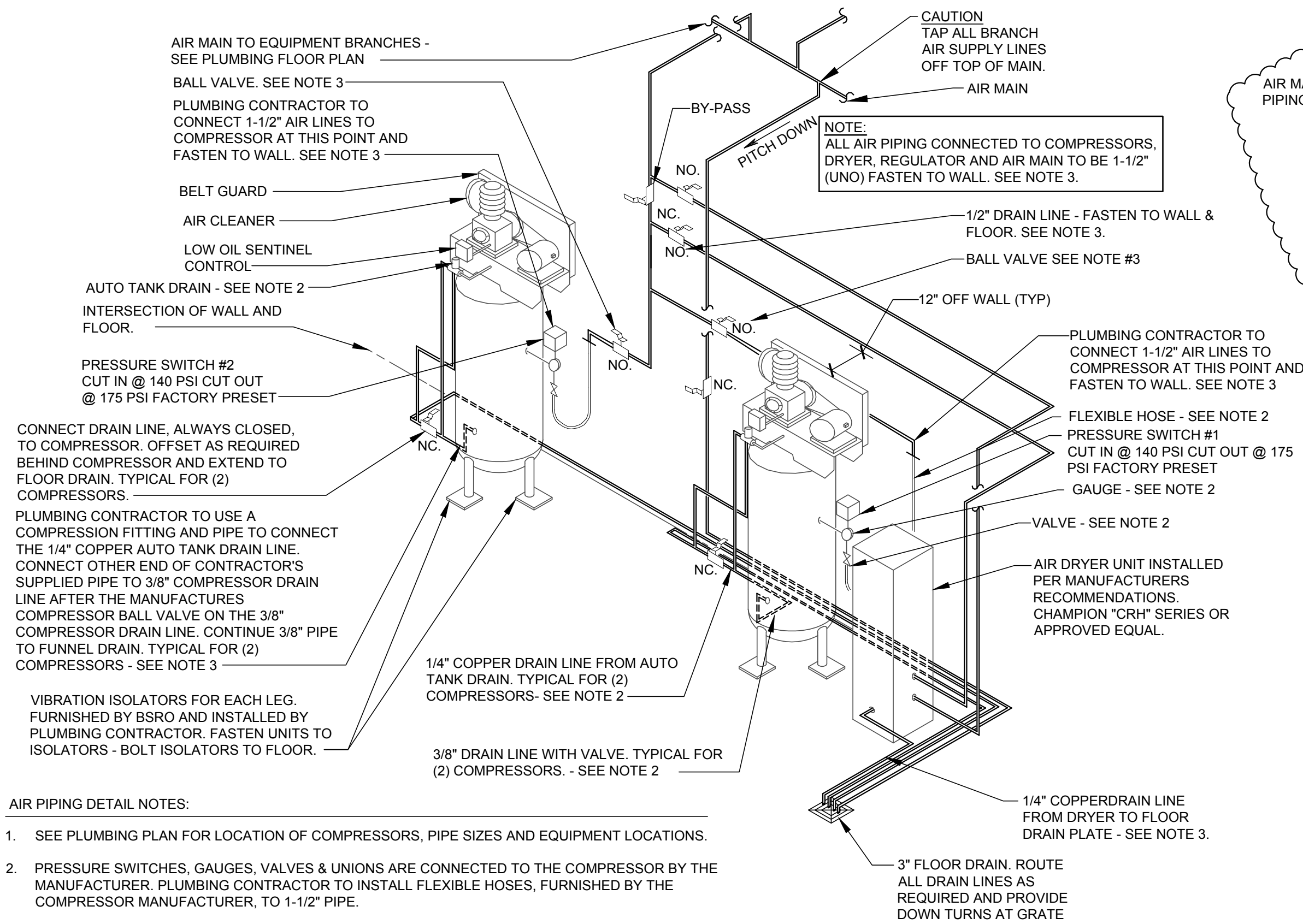
NOTE:
SANITARY AND DOMESTIC WATER PIPE ROUTING ARE DIAGRAMMATIC ONLY. CONTRACTOR SHALL COORDINATE EXACT ROUTING WITH FIELD CONDITIONS. REFER TO PIPING DIAGRAMS ON SHEET P6 FOR PIPE SIZES.

ISSUE BLOCK		
1	04/16/20	ADD #1
2	06/30/20	CB #1
3	07/23/20	IFC

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

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

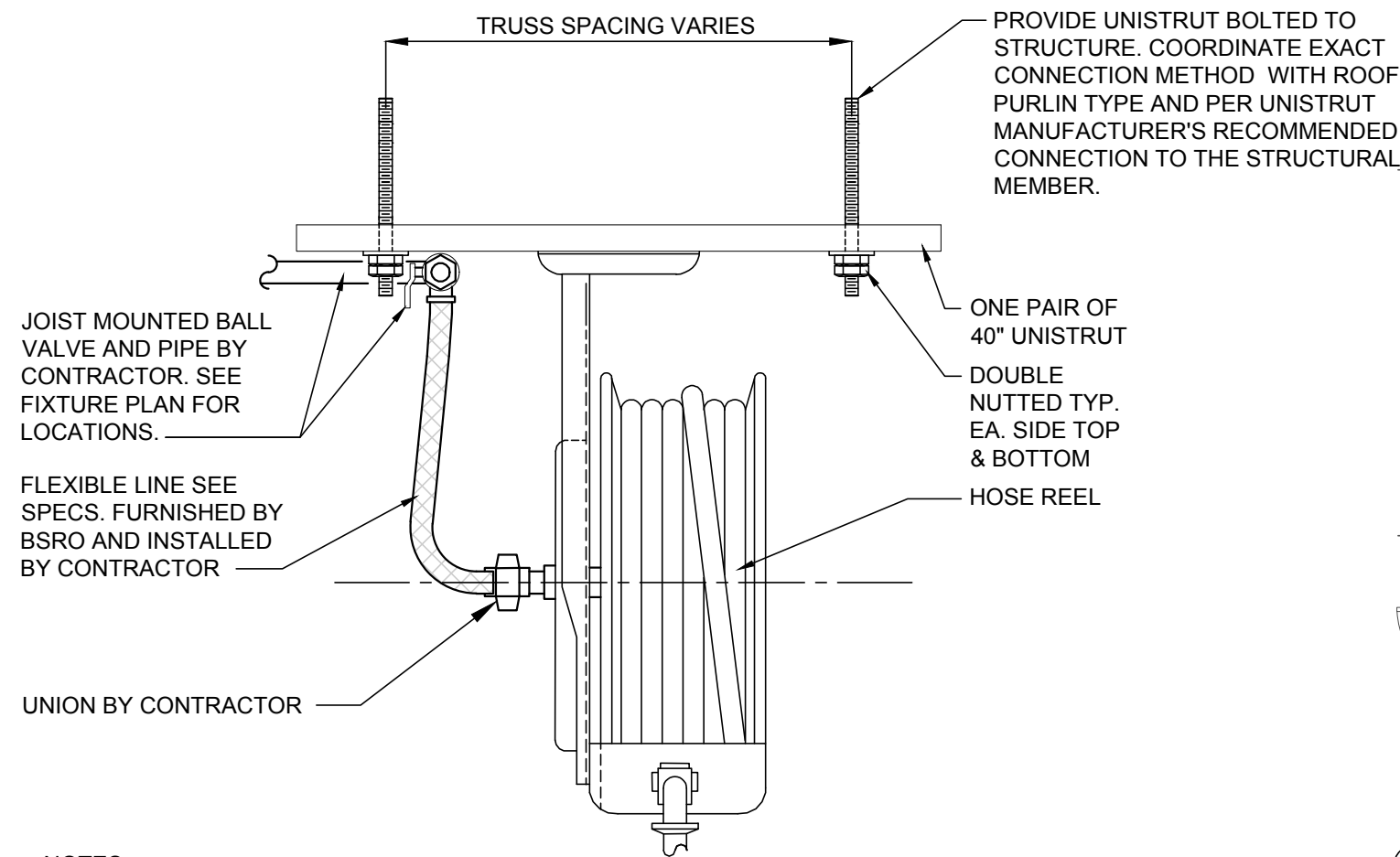
SHEET TITLE:
ENLARGED
RESTROOM
PLUMBING PLANS
SHEET NUMBER:
P2



- AIR PIPING DETAIL NOTES:
- SEE PLUMBING PLAN FOR LOCATION OF COMPRESSORS, PIPE SIZES AND EQUIPMENT LOCATIONS.
 - PRESSURE SWITCHES, GAUGES, VALVES & UNIONS ARE CONNECTED TO THE COMPRESSOR BY THE MANUFACTURER. PLUMBING CONTRACTOR TO INSTALL FLEXIBLE HOSES, FURNISHED BY THE COMPRESSOR MANUFACTURER, TO 1-1/2" PIPE.
 - SEE SPECIFICATIONS FOR TYPE OF PIPE, VALVES, UNIONS & CHECK VALVES FURNISHED & INSTALLED BY PLUMBING CONTRACTOR
 - TYPICAL DETAIL - PIPING CONNECTIONS AT COMPRESSORS MAY VARY ACCORDING TO MANUFACTURER. COMPRESSORS ARE TO BE FURNISHED BY BSRO AND INSTALLED BY CONTRACTOR.
 - COMPRESSORS TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
 - DRYER TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
 - ALL PIPING IS LOCATED / INSTALLED BETWEEN COMPRESSORS AND WALL. MOUNT TIGHT TO WALL.
 - ALL VALVES SHALL BE NORMALLY OPEN (NO.) UNLESS NOTED OTHERWISE.

AIR PIPING DETAIL - TWO VERTICAL COMPRESSORS

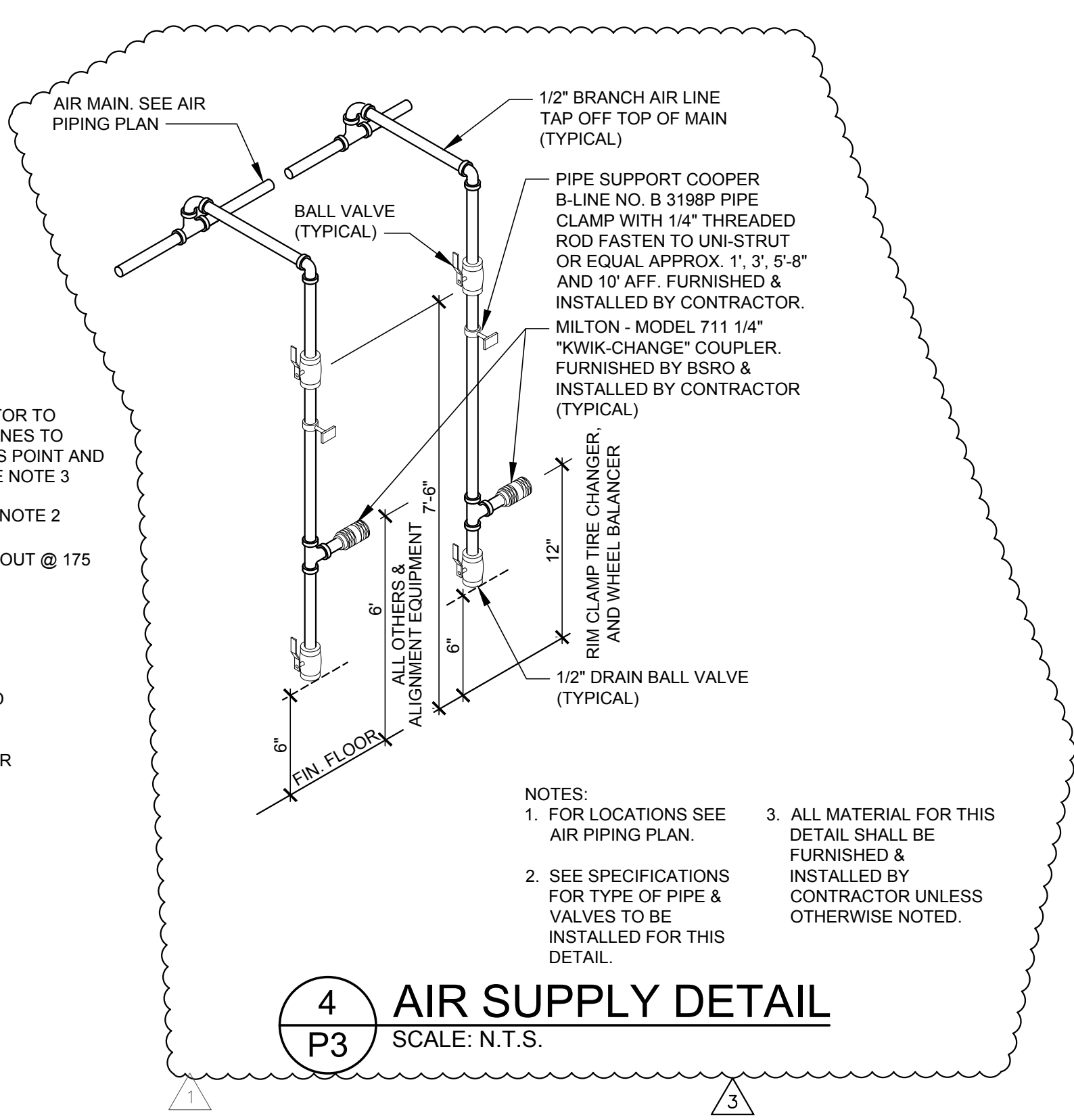
SCALE: N.T.S.



- NOTES:
- ALL REELS ARE FURNISHED BY BSRO AND INSTALLED BY CONTRACTOR
 - ALL REEL SUPPORTS ARE FURNISHED AND INSTALLED BY CONTRACTOR.
 - 2 PIECE 40" LONG UNISTRUT TO BE MOUNTED ON THE BOTTOM OF THE STRUCTURAL MEMBER AND SECURED WITH ALL-THREAD AND BOLTS. UNISTRUT SHALL BE CENTERED WITH PILASTER BETWEEN OVERHEAD DOORS. REFER TO SHEET A2 FOR LOCATIONS.
 - FOUR PIECES OF ALL-THREAD EXTENDED BEYOND THE BOTTOM OF THE STRUCTURAL MEMBER FOR ATTACHMENT OF TWO 40" LONG PIECES OF UNISTRUT. EACH END OF THE ALL-THREAD TO BE DOUBLE NUTTED TYPICAL.
 - UNISTRUT TO BE INSTALLED WITH THE OPEN PORTION OF THE CHANNEL FACING THE SERVICE BAY FLOOR.
 - WHERE AIR REEL OCCURS AT A MAIN BEAM LINE, MOUNT UNI-STRUT TO BOTTOM OF MAIN ROOF BEAM. SUPPORT UNISTRUT AT EACH END WITH ALL THREAD BACK UP TO A UNISTRUT MOUNTED AT THE BOTTOM OF THE ROOF PURLIN. PROVIDE ALL SECONDARY UNISTRUT AS NECESSARY TO ATTACHED UNISTRUT AS SHOWN.

PRE-ENGINEERED BUILDING AIR HOSE REEL DETAIL

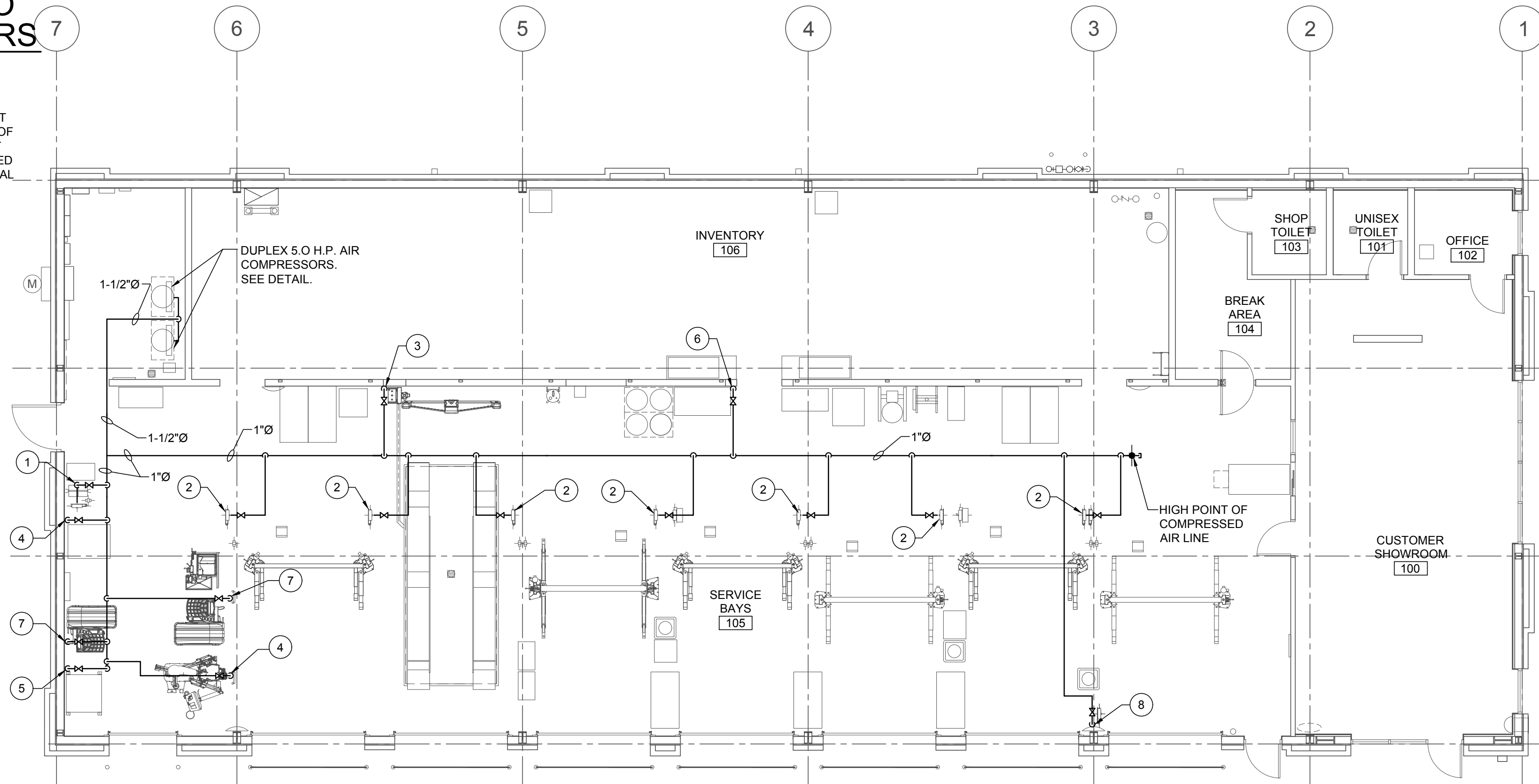
SCALE: N.T.S.



- NOTES:
- FOR LOCATIONS SEE AIR PIPING PLAN.
 - SEE SPECIFICATIONS FOR TYPE OF PIPE & VALVES TO BE INSTALLED FOR THIS DETAIL.
 - ALL MATERIAL FOR THIS DETAIL SHALL BE FURNISHED & INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED.

4 AIR SUPPLY DETAIL

SCALE: N.T.S.



NOTE:
VERIFY FINAL LOCATION OF AIR PIPING WITH ARCHITECTURAL DRAWINGS AND SHEET F1. COORDINATE EXACT AIR DROP LOCATIONS WITH ARCHITECT PRIOR TO FINAL INSTALLATION.

1 AIR PIPING PLAN

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

KEYED PLAN NOTES

- FLAT REPAIR STATION 1/2" PIPE TO OVERHEAD AIR HOSE REEL. SEE DETAIL ON THIS SHEET FOR MOUNTING. COORDINATE EXACT LOCATION WITH FIXTURE PLAN.
- 1/2" PIPE TO OVERHEAD AIR HOSE REEL. SEE DETAIL ON THIS SHEET FOR MOUNTING. COORDINATE EXACT LOCATION WITH FIXTURE PLAN.
- 1/2" PIPE DOWN TO ALIGNMENT RACK. MAKE FINAL HARD PIPE CONNECTION TO ALIGNMENT CONTROLLER BOX. COORDINATE EXACT LOCATION WITH FIXTURE PLAN. REFER TO AIR SUPPLY DETAIL THIS SHEET FOR MOUNTING HEIGHT.
- 1/2" PIPE DROP FOR RIM CLAMP TIRE CHANGER. COORDINATE EXACT LOCATION WITH FIXTURE PLAN. REFER TO AIR SUPPLY DETAIL ON THIS SHEET FOR MOUNTING HEIGHT.
- 1/2" PIPE DROP FOR TANK MOUNTED AIR POWERED OIL PUMP. REFER TO AIR SUPPLY DETAIL THIS SHEET FOR MOUNTING HEIGHT. COORDINATE EXACT LOCATION OF AIR DROP WITH FIXTURE PLAN AND USED OIL STORAGE SYSTEM DETAIL ON SHEET P4.
- 1/2" PIPE DOWN TO WORKBENCH. COORDINATE EXACT LOCATION WITH FIXTURE PLAN. REFER TO AIR SUPPLY DETAIL ON THIS SHEET FOR MOUNTING HEIGHT.
- 1/2" PIPE DOWN TO ELECTRONIC WHEEL BALANCER. COORDINATE EXACT LOCATION WITH FIXTURE PLAN. REFER TO AIR SUPPLY DETAIL ON THIS SHEET FOR MOUNTING HEIGHT. COORDINATE WITH BSRO FOR FUTURE LOCATION OF AIR POWERED WHEEL BALANCER AND ELECTRONIC WHEEL BALANCER.
- 1/2" PIPE TO OVERHEAD AIR HOSE REEL. SEE DETAIL ON THIS SHEET FOR MOUNTING. COORDINATE EXACT LOCATION WITH FIXTURE PLAN.

AIR PIPING NOTES

- PROVIDE SHUTOFF VALVES IN EACH BRANCH USING BALL VALVES. REFER TO AIR SUPPLY DETAIL ON THIS SHEET FOR MOUNTING HEIGHT.
- INSTALL/ROUTE ALL PIPING TIGHT TO UNDERSIDE OF SERVICE BAY ROOF STRUCTURE.
- MAKE FINAL CONNECTIONS TO ALL EQUIPMENT FURNISHED BY OTHERS PER MANUFACTURER'S INSTRUCTIONS.
- PITCH PIPING BACK TO AIR COMPRESSOR. TAP ALL BRANCH PIPING TAKE-OFFS FROM TOP OF MAIN.
- RUN 1/2" PIPING FROM SUPPLY MANIFOLD TO TIRE CHANGERS AND CONNECT PER MANUFACTURER'S INSTRUCTIONS. SEE MANUFACTURER'S DRAWINGS FOR DETAIL OF SUPPLY MANIFOLD.
- ALL EQUIPMENT, MATERIAL AND LABOR NECESSARY FOR COMPLETION OF COMPRESSED AIR SYSTEM SHOWN ON DRAWINGS OR REFERRED TO IN SPECIFICATIONS TO BE FURNISHED AND INSTALLED BY CONTRACTOR UNLESS NOTED OTHERWISE.
- WHERE DRAWINGS OR SPECIFICATIONS EXCEED GOVERNING CODE REQUIREMENTS, DESIGN SHALL GOVERN. INSTALL NO WORK CONTRARY TO OR BELOW MINIMUM LEGAL STANDARDS. WHETHER DRAWINGS AND SPECIFICATIONS FULLY COMPLY OR NOT.
- CAUTION: ALL AIR LINES SHALL BE PROPERLY CLEANED AND BLOWN OUT PRIOR TO CONNECTING TO ANY OF THE EQUIPMENT SHOWN ON THIS SHEET.
- PROVIDE TIRE BALANCING UNIT AIR SUPPLY.

ISSUE BLOCK

1	04/16/20	ADD	#1
2	06/30/20	CB	#1
3	07/23/20	IFC	

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

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

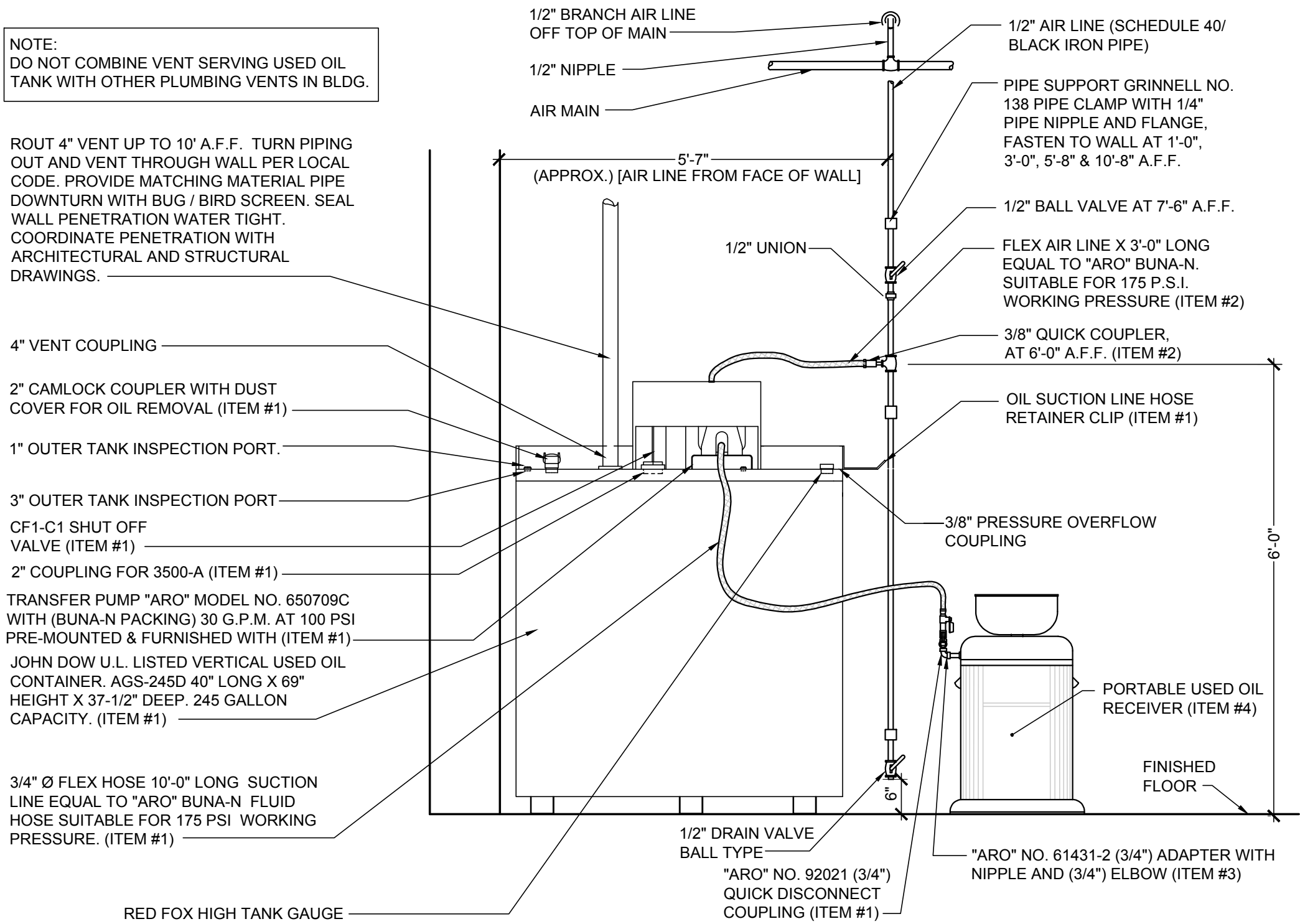
SHEET TITLE:

AIR PIPING PLAN
AND NOTES

SHEET NUMBER:

P3

USED OIL STORAGE SYSTEM INSTALLATION	
BILL OF MATERIAL - OWNER FURNISHED ITEMS	
ITEM#	DESCRIPTION
1	JOHN DOW DOUBLE WALL WASTE OIL TANK COMPLETE WITH AIR OPERATED "ARO" DIAPHRAGM PUMP, AUTOMATIC AIR SHUTOFF, LIQUID LEVEL GAUGE, 2" CAMLOCK COUPLER, 10" X 3/4" INLET HOSE WITH QUICK DISCONNECT COUPLER, QUICK DISCONNECT ADAPTER KIT, AND AIR FILTER REGULATOR. SIZE 40" L X 37-1/2" W X 69" H. WEIGHT : 1100 LBS. NOTE: TANK ASSEMBLY IS U.L. LISTED (MEETS UL-142 SPECIFICATIONS)
2	1/4"Ø FLEX HOSE 3'-0" LONG (175 P.S.I.) AND 1/4" QUICK COUPLER("JOHNDOW" NO. 421-QUICK).
3	JOHN DOW NO. 61431-2 (3/4" ADAPTER) WITH 3/4" NIPPLE AND 3/4" ELBOW. (1) REQUIRED FOR EACH ITEM #4 FURNISHED.
4	PORTABLE USED OIL RECEIVER (STORE EQUIPMENT ITEM) QUANTITY TO BE DETERMINED. SEE BUILDING STORE PLANNING LAYOUT - SHEET F1.



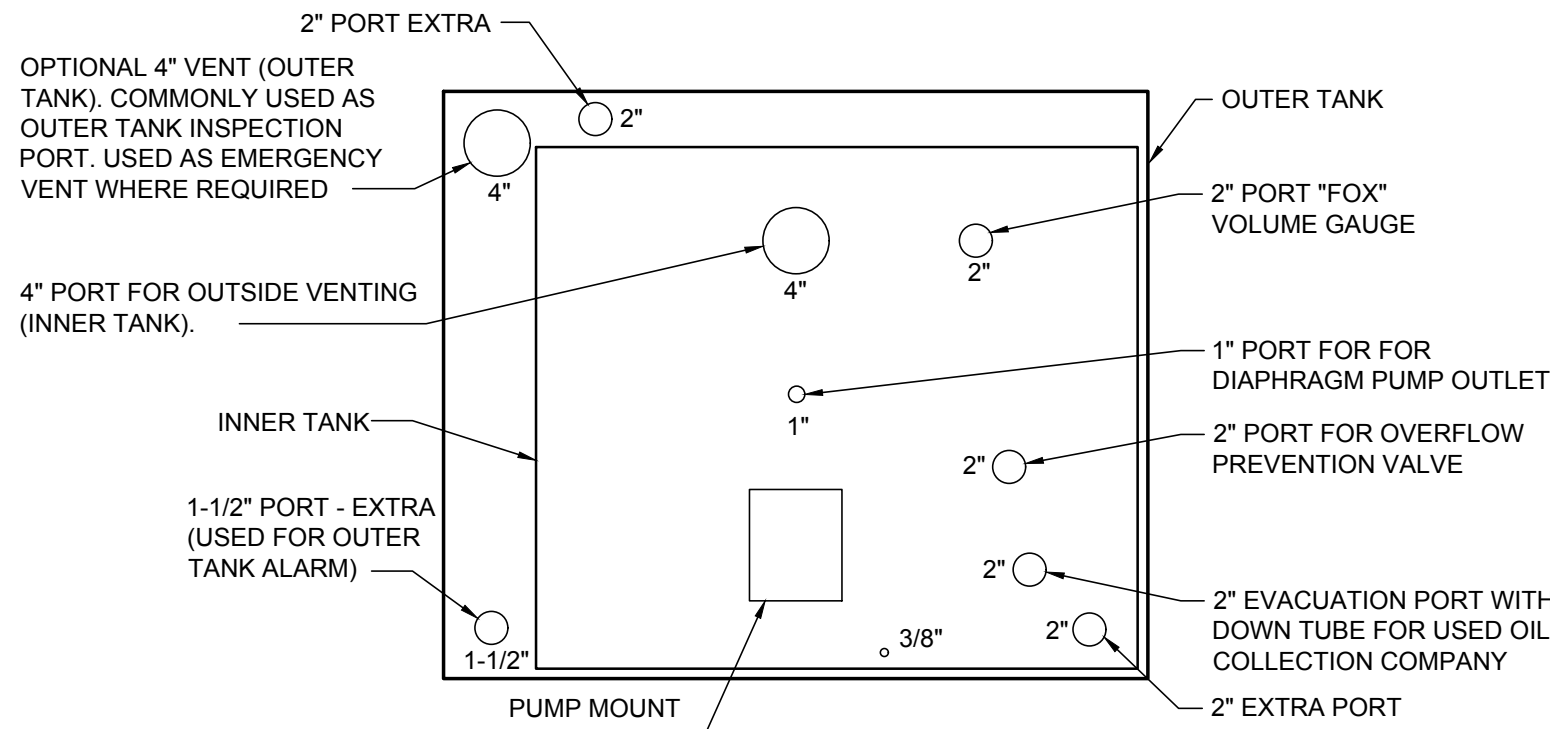
1
P4 USED OIL STORAGE SYSTEM ELEVATION VIEW
SCALE: N.T.S.

GENERAL NOTES:

- UNLESS OTHERWISE NOTED, ALL OTHER MATERIAL FOR THIS DETAIL SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR.
- SEE SPECIFICATIONS FOR TYPE OF PIPE & FITTINGS TO BE FURNISHED & INSTALLED.
- PROVIDE EARTH GROUND TO AIR OPERATED OIL PUMP PER MANUFACTURER'S SPECIFICATION AND/OR PER N.E.C. CODE REQUIREMENTS.

INSTALLATION NOTES:

- CONTACT LOCAL FIRE MARSHAL AND OBTAIN INSTALLATION PERMISSION AND/OR PERMITS.
- DETERMINE INSTALLATION LOCATION BY EITHER, REVIEWING BUILDING STORE PLANNING LAYOUT (SHEET F1), FOR NEW STORES, OR BY STORE MANAGER SELECTION AT EXISTING STORES.
- UNCRATE PRE-ASSEMBLED TANK (ITEM #1) AND MOVE INTO POSITION.
- INSTALL AIR LINE FROM MAIN AND INSTALL FLEX HOSE (ITEM #2) CONNECTION TO TANK.
- CONNECT VENT LINE TO TANK AND RUN VENT TO EXTERIOR THROUGH WALL. INSTALL WALL FLASHING AND WEATHER CAP AS NOTED.
- CONNECT QUICK DISCONNECTS (ITEM #3) TO EACH PORTABLE USED OIL COLLECTION RECEIVER AT THE STORE.
- VENT PIPING MATERIAL TO BE GALVANIZED STEEL, BLACK IRON, OR CAST IRON.



2
P4 USED OIL STORAGE SYSTEM - PORT LAYOUT
SCALE: N.T.S.

Firestone
COMPLETE AUTO CARE

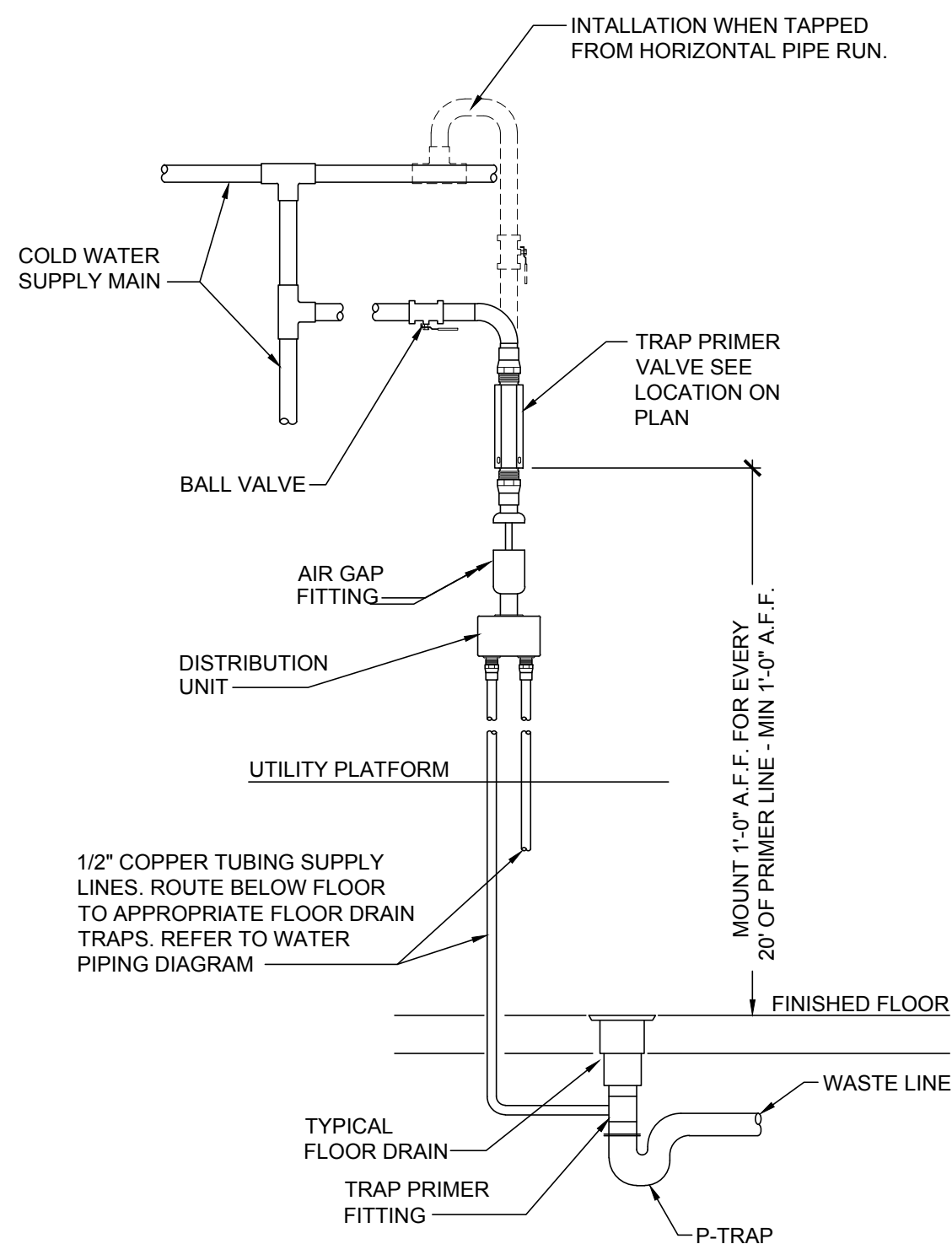
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NEW FCAC STORE
2020 ER
3561 SW MARKET ST
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LEE'S SUMMIT, MISSOURI 64082

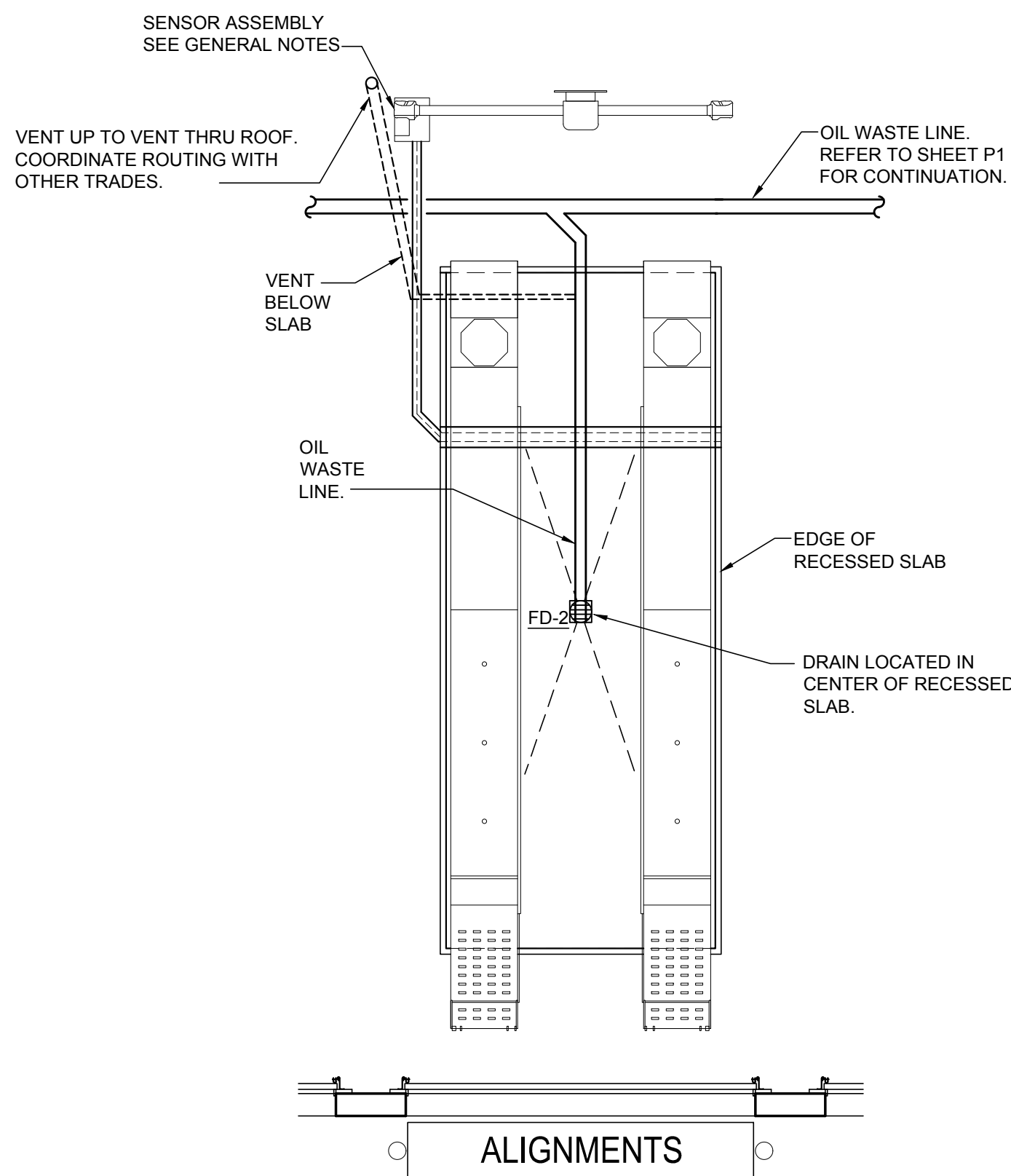


ISSUE BLOCK			
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2	06/30/20	CB	#1
3	07/23/20	IFC	
PROPERTY NO.:		160085	
6 DIGIT NO.:		906983	
4 DIGIT NO.:		78C9	
AOR PROJECT NUMBER:		1955B71	
TO PERMIT:		DATE: 03/26/2020	
TO BID:		DATE: ##-##-##	
SHEET TITLE:			
OIL PIPING DETAILS			
SHEET NUMBER:			
P4			

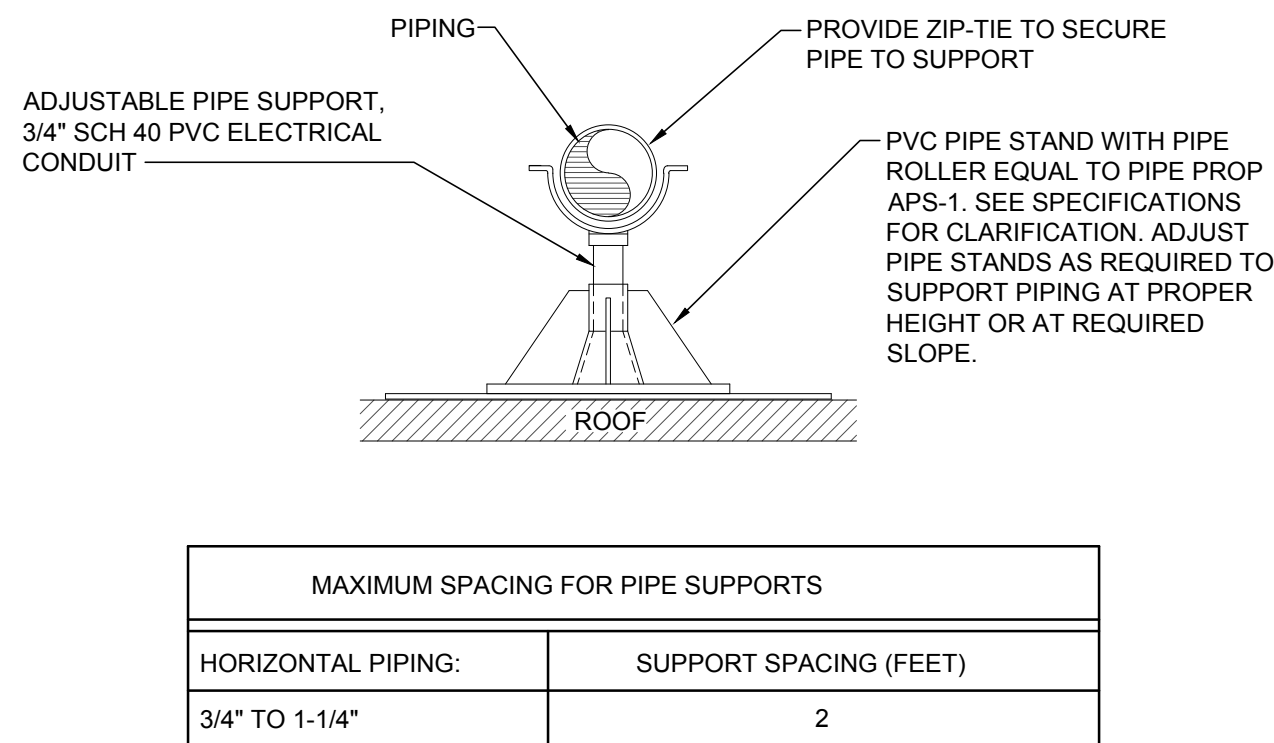


1
P5 TRAP PRIMER DETAIL (TP-1)
SCALE: N.T.S.

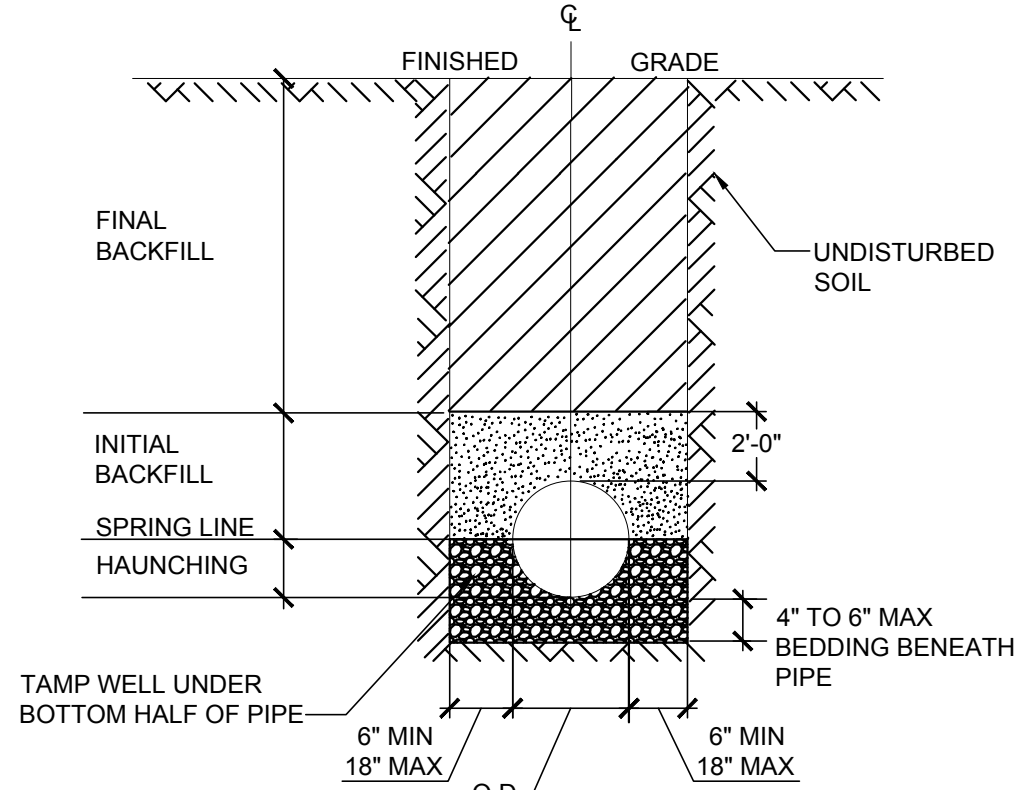
NOTE:
DETAILS SHOWN HERE ARE DIAGRAMMATICAL ONLY AND ARE NOT INTENDED TO SHOW EVERY FITTING AND/OR OFFSET. SEE MANUFACTURER'S SPECIFIC INSTALLATION INSTRUCTIONS AND DETAILS. INSTALLATION CONTRACTOR IS TO BE CERTIFIED AND AUTHORIZED BY THE MANUFACTURER.



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

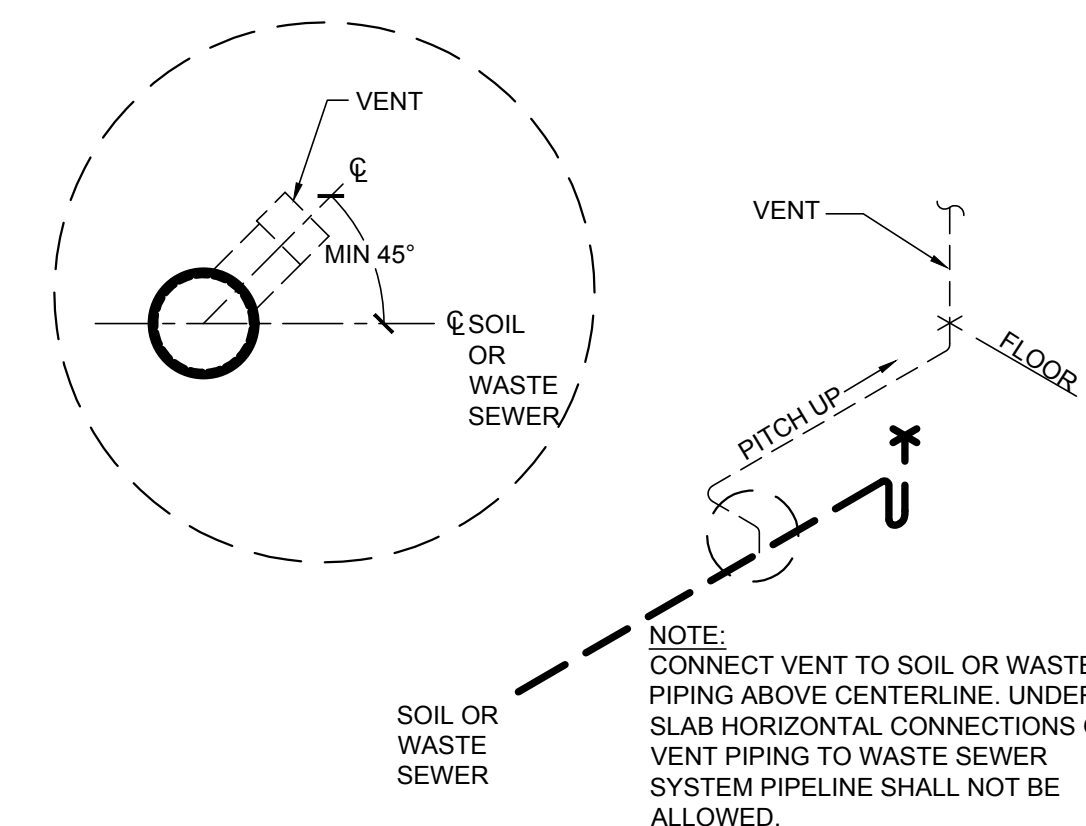


2
P5 ROOF MOUNTED PIPING SUPPORT DETAIL
SCALE: N.T.S.

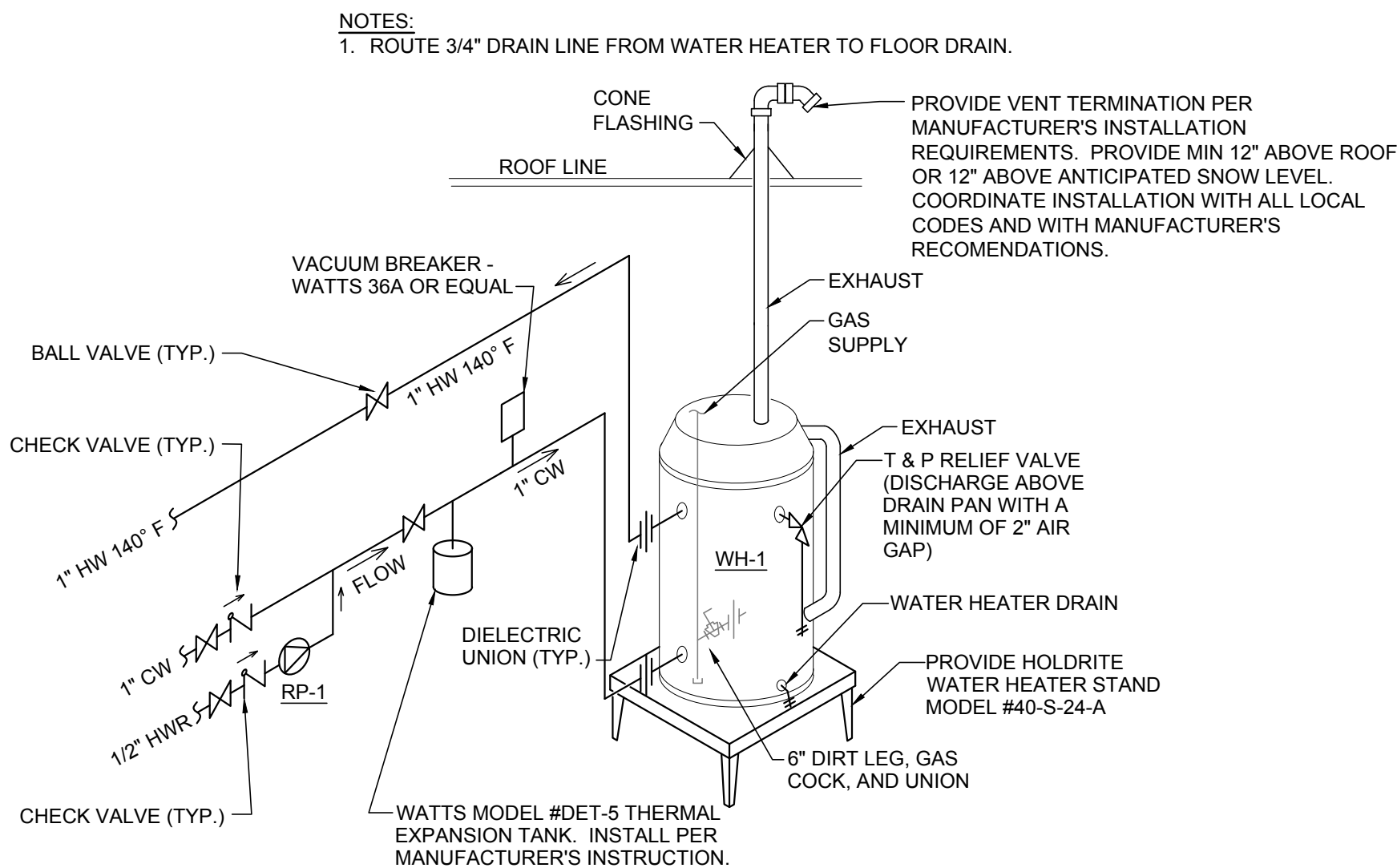


- NOTE:
- BEDDING SHALL BE IN CLASS I-A WORKED BY HAND, IF GROUNDWATER IS ANTICIPATED, THEN BEDDING SHALL BE CLASS I-B COMPACTED TO 85% STANDARD PROCTOR.
 - HAUNCHING SHALL BE WORKED AROUND THE PIPE BY HAND TO ELIMINATE VOIDS AND SHALL BE CLASS I-A OR CLASS I-B OR CLASS II COMPACTED TO 85% PROCTOR.
 - 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.

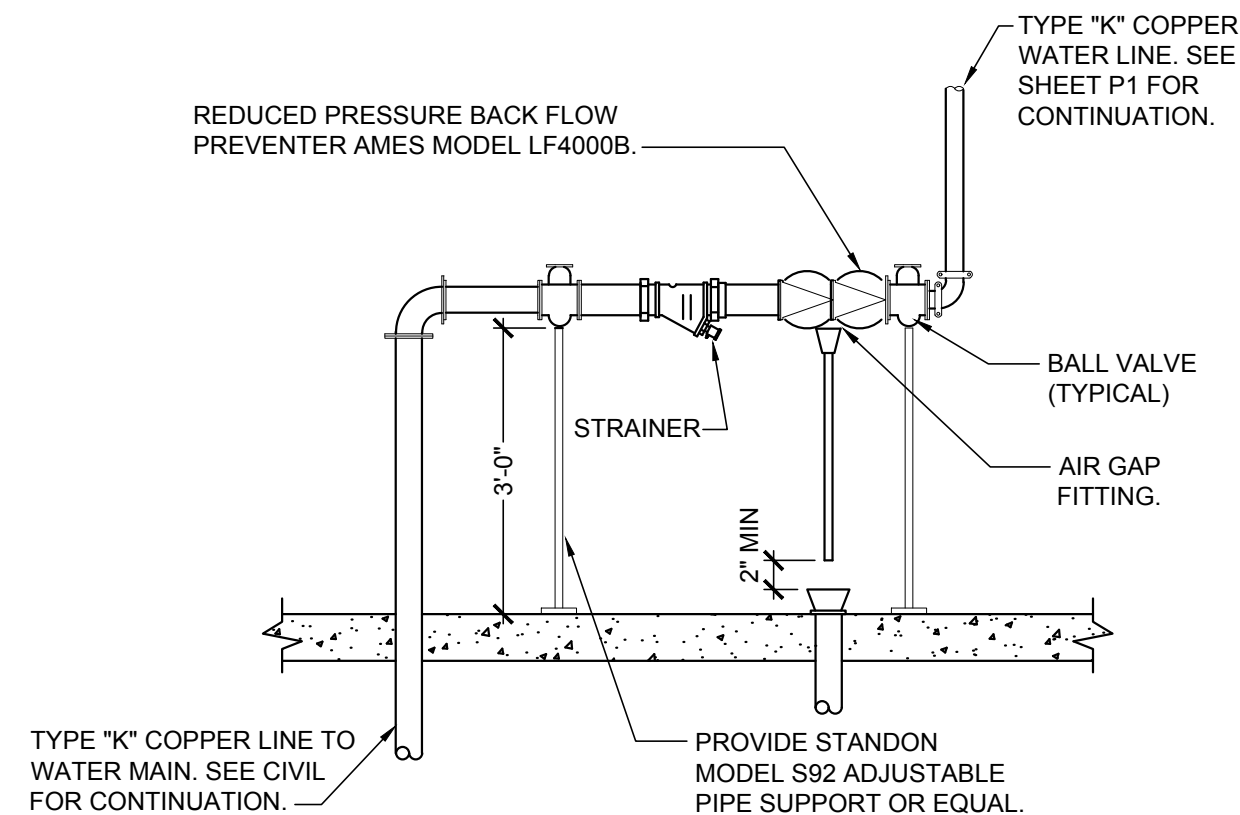
6
P5 SANITARY SEWER BACKFILL DETAIL
SCALE: N.T.S.



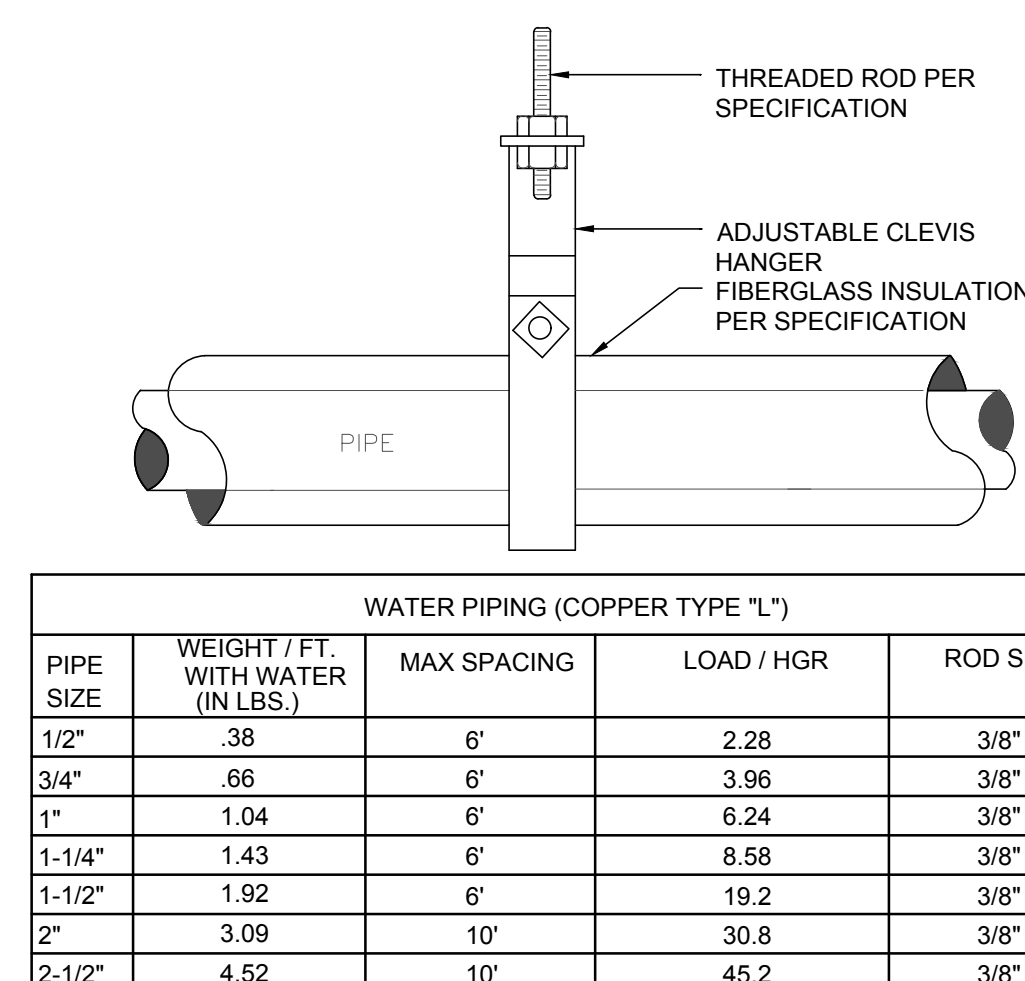
8
P5 VENT PIPING INSTALLATION
SCALE: N.T.S.



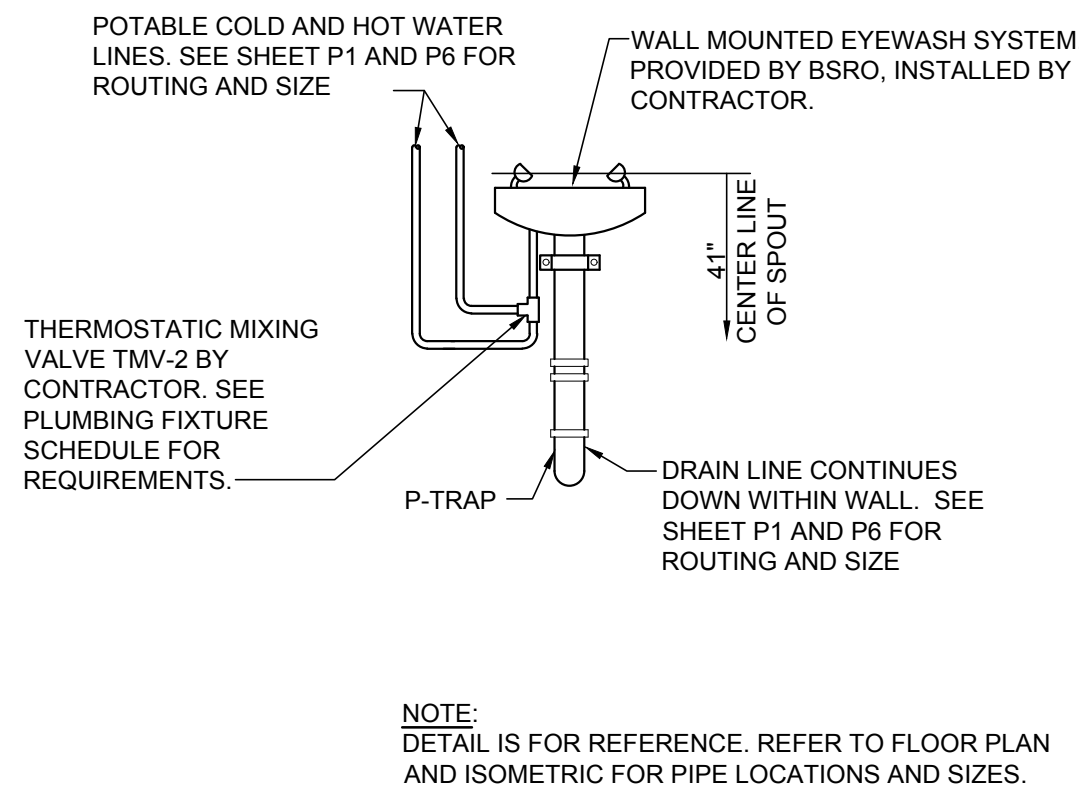
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P5 GAS FIRED WATER HEATER DETAIL
SCALE: N.T.S.



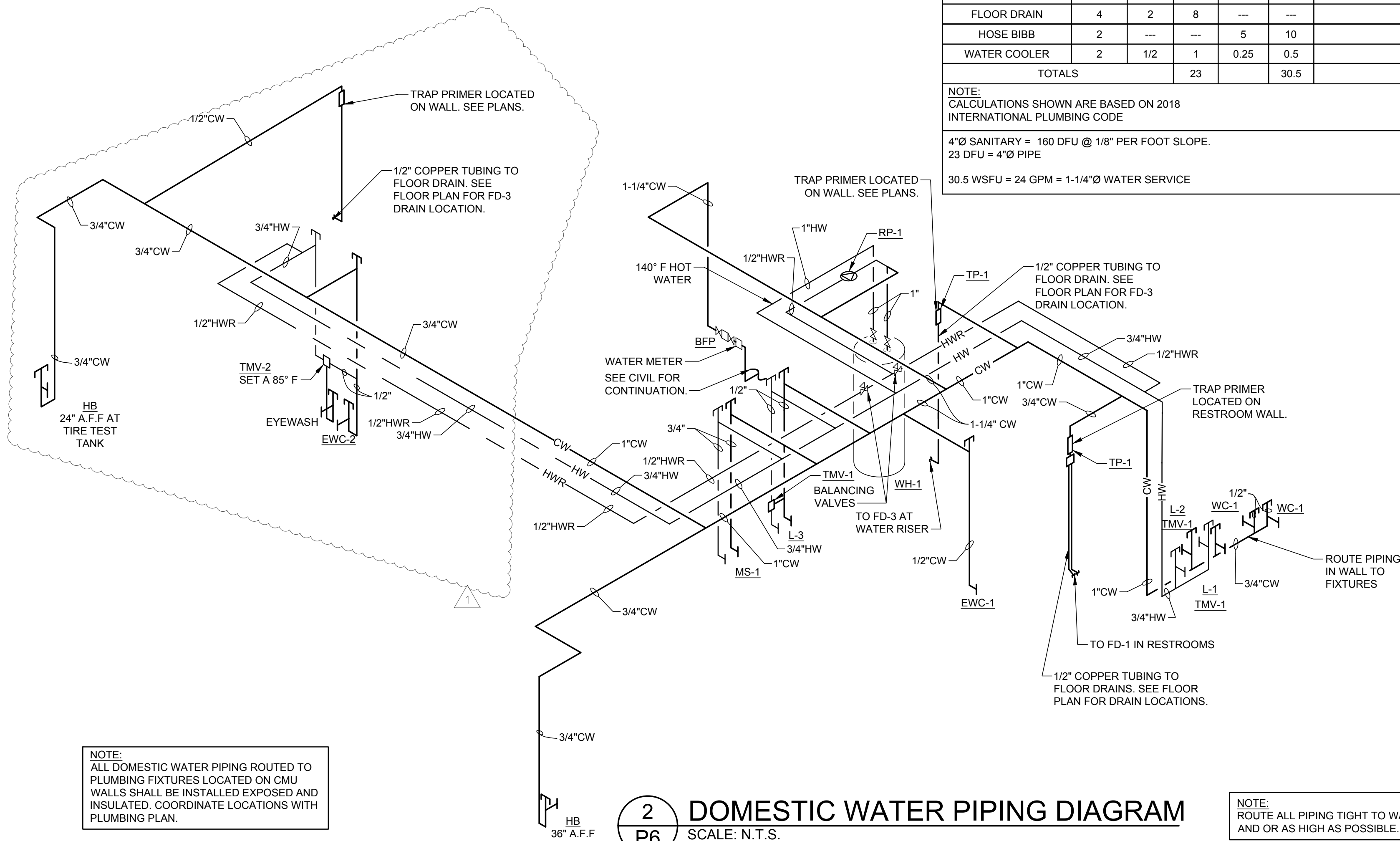
5
P5 WATER SERVICE DIAGRAM
SCALE: N.T.S.



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



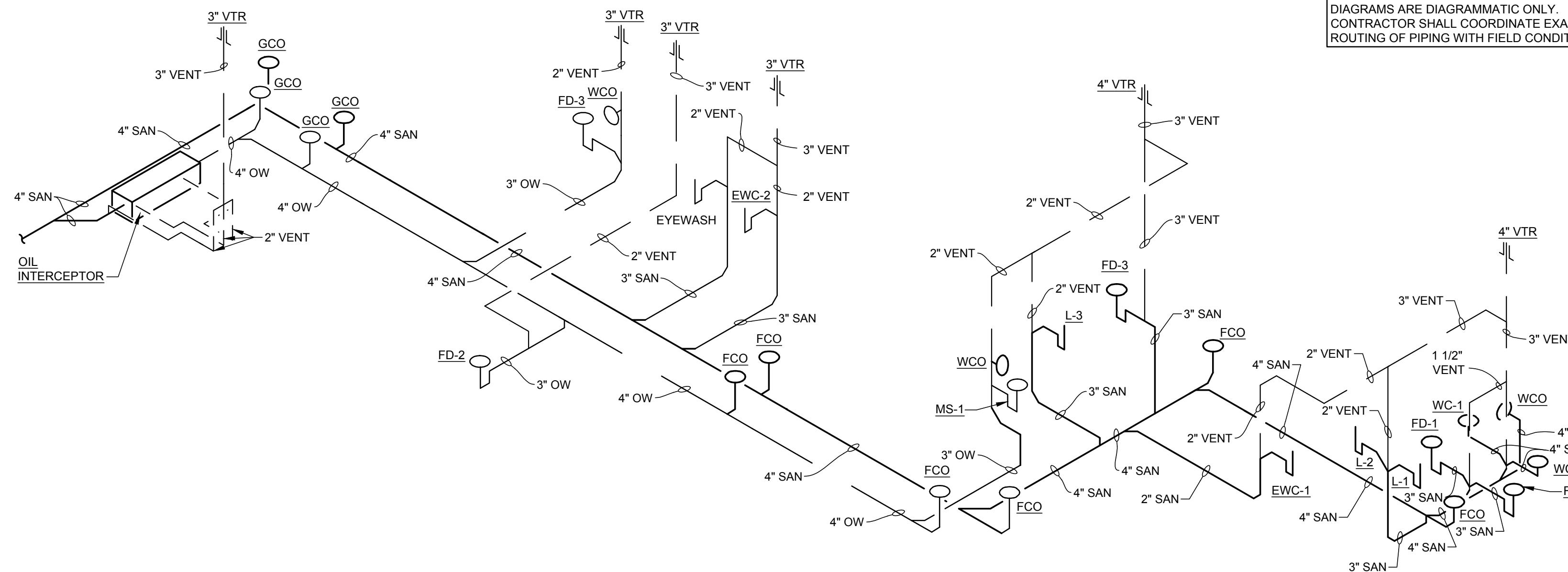
4
P5 EYEWASH PIPING DETAIL
SCALE: N.T.S.



2 DOMESTIC WATER PIPING DIAGRAM
SCALE: N.T.S.

NOTE: ROUTE ALL PIPING TIGHT TO WALL AND OR AS HIGH AS POSSIBLE.

NOTE: SANITARY AND DOMESTIC WATER PIPING DIAGRAMS ARE DIAGRAMMATIC ONLY. CONTRACTOR SHALL COORDINATE EXACT ROUTING OF PIPING WITH FIELD CONDITIONS.



1 WASTE & VENT PIPING DIAGRAM
SCALE: N.T.S.

SLOPE OF HORIZONTAL DRAINAGE PIPE	
SIZE	MINIMUM SLOPE
2-1/2" OR LESS	1/4" / ft OR 2%
3" TO 6"	1/8" / ft OR 1%

NOTE: SCHEDULE BASED ON 2018 INTERNATIONAL CODE, SECTION 704 - TABLE 704.1.

PLUMBING FIXTURE LOAD SCHEDULE						
PLUMBING FIXTURE	QTY	FIXTURE UNITS				REMARKS
		DFU	TOTAL DFU	WSFU EACH	TOTAL WSFU	
WATER CLOSET	2	4	8	5	10	TANK
LAVATORY	2	1	2	2	4	
SERVICE SINK	2	2	4	3	6	
FLOOR DRAIN	4	2	8	---	---	
HOSE BIBB	2	---	---	5	10	
WATER COOLER	2	1/2	1	0.25	0.5	
TOTALS			23		30.5	

NOTE:
CALCULATIONS SHOWN ARE BASED ON 2018
INTERNATIONAL PLUMBING CODE

4"Ø SANITARY = 160 DFU @ 1/8" PER FOOT SLOPE.
23 DFU = 4"Ø PIPE

30.5 WSFU = 24 GPM = 1-1/4"Ø WATER SERVICE

PLUMBING FIXTURE AND PIPING CONNECTION SCHEDULE									
TAG	DESCRIPTION	MANUFACTURER MODEL	SIZE	VALVE/ FAUCET	CONNECTIONS				REMARKS
					DRAIN	VENT	C.W.	H.W.	
WC-1	WATER CLOSET FLOOR MTD. FLUSH TANK	AMERICAN STANDARD #2467.016	ELONGATED	INTEGRAL WITH TANK	4	2	1/2		MOUNT 18" A.F.F HANDICAP
L-1	LAVATORY HANDICAP-CENTERSET	AMERICAN STANDARD #0124.024	20"x18" VITREOUS CHINA	CHICAGO FAUCET 802-V317CP	1 1/2	1 1/2	1/2	1/2	MOUNT 34" A.F.F HANDICAP 0.5 GPM AERATOR - CHICAGO FAUCET - E2805JKCP
L-2	LAVATORY HANDICAP-CENTERSET	ELKAY ELVW02219CS	22"x19" STAINLESS STEEL	CHICAGO FAUCET 802-V317CP	1 1/2	1 1/2	1/2	1/2	MOUNT 34" A.F.F HANDICAP 0.5 GPM AERATOR - CHICAGO FAUCET - E2805JKCP
L-3	SERVICE AREA FLOOR MOUNTED SINK	FIAT #FL-1	23"x22"x14" PLASTIC	A-1 FAUCET	1 1/2	1 1/2	1/2	1/2	DECK MOUNTED FAUCET PROVIDED WITH SINK
MS-1	FLOOR MOUNTED MOP SINK	FIAT #MSB-2424	24"x24"	MODEL 830-AA FAUCET W / INTEGRAL VACUUM BREAKER	2	1 1/2	3/4	3/4	889-CC 24" MOP BRACKET, 1453-BB STRAINER
FD-1	FLOOR DRAIN	J.R. SMITH #2010CA-NB	6" ROUND TOP		3	2			CAST IRON BODY W/ TRAP PRIMER CONNECTION
FD-2	FLOOR DRAIN	J.R. SMITH #2350-NB	8 1/2" ROUND WITH SEDIMENT BUCKET		3	2			CAST IRON BODY PROVIDE SURE SEAL SS3000
FD-3	FLOOR DRAIN	J.R. SMITH #3061	12 1/2"Ø WITH SEDIMENT BUCKET		3	2			CAST IRON BODY W/ TRAP PRIMER ADAPTOR #2695S
WCO	WALL CLEANOUT	J.R. SMITH #4472T	STAINLESS STEEL COVER PLATE		SEE PLANS				⚠
FCO	FLOOR CLEANOUT	J.R. SMITH #4020	5 3/4"Ø ROUND "TWIST TO FLOOR" ADJUSTABLE TOP		SEE PLANS				NICKEL BRONZE TOP
GCO	GRADE CLEANOUT	J.R. SMITH #4250	8 3/4"Ø ROUND CLEAN OUT FOR UNFINISHED AREA		SEE PLANS				CAST IRON TOP
HB	HOSE BIBB WITH INTEGRAL VACUUM BREAKER SPOUT	ARROWHEAD BRASS HOSE BIBB 361 WITH NIBCO 90° ELBOW 707-3-5-LF	3/4" MALE HOSE THREAD OUTLET				3/4		90° ELBOW WITH 3/4" SOLDER INLET AND 3/4" THREADED OUTLET, AND INTEGRATED VACUUM BREAKER MOUNT 36" AFF - UNO
EW-1	BOTTLE FILLING BI-LEVEL WATER COOLER	ELKAY EZSTL8WSLK	---		1 1/2	1 1/4	3/8		38 3/8" ORIFICE HEIGHT AFF FOR HIGH FOUNTAIN; PROVIDE W/ APRON MODEL #LKAPREZL
EW-2	WATER COOLER	ELKAY E28	---		1 1/4	1 1/4	3/8		32 7/8" ORIFICE HEIGHT A.F.F.
TMV-1	THERMOSTATIC MIXING VALVE	POWERS LFLM495-2	1/2"				1/2	1/2	SET FOR 110° F HOT WATER ASSE 1070 CERTIFIED
TMV-2	THERMOSTATIC MIXING VALVE	POWERS ES-150-10	1/2"				1/2	1/2	SET FOR 85° F HOT WATER ASSE 1071 CERTIFIED
TP-1	TRAP PRIMER	MIFAB MR-500	1/2"				1/2		MI-DU-500 DISTRIBUTION UNIT & MI-600 TRAP FITTING
RP-1	RECIRCULATION PUMP	GRUNDFOS UP15-10 B5/TLC	3 FT HEAD AT 3 GPM				1/2		SINGLE PHASE, 115 V 6W, PROVIDE WITH TIMER AND HONEYWELL AQUASTAT L6006C

ACCEPTABLE MANUFACTURERS FOR EQUIVALENT OF SCHEDULE PRODUCT (NO OTHER SUBSTITUTIONS WILL BE ALLOWED):
* SEE SPECIFICATIONS

NOTES & REMARKS:
1. COLOR OF FIXTURES SHALL BE WHITE, UNLESS NOTED OTHERWISE.
2. ALL SINKS AND LAVATORIES SHALL HAVE MINIMUM 17 GAUGE TRAPS, WITH CLEAN OUT PLUGS AND WALL ESCUTCHEONS, CHROME PLATED, OFFSET TRAP ON DRAIN LINE, TAILPIECE WITH STRAINER, HANDI-SHIELD VINYL COVERED PIPE INSULATION WITH HOOD OVER NEW DRAIN LINE AND HOT AND COLD WATER LINES.
3. ALL FIXTURES SHALL HAVE INDIVIDUAL WALL SUPPLY STOPS, LOOSE KEY OPERATED, WITH WALL ESCUTCHEONS, CHROME PLATED.
4. TOILET SEATS: ELONGATED WITH OPEN FRONT AND CONTAINING ANTI-MICROBIAL AGENT, BEMIS MODEL #3155CT.
5. WATER COOLERS FURNISHED WITH INTEGRAL VOLUME REGULATORS, HANGERS, WALL MOUNTING PLATE AND 5 YEAR WARRANTY. PROVIDE BOTTLE FILLER ON LOW WATER COOLER
6. LAVATORIES L-1 AND L-2 SHALL BE PROVIDED WITH A VANDAL RESISTANT 0.5 GPM AERATOR - CHICAGO FAUCET MODEL E2805JKCP.
7. ALL TOILET FLUSH CONTROLS SHALL BE PROVIDED ON THE WIDE SIDE OF THE FIXTURE, (AWAY FROM WALL)
8. PROVIDE WALL MOUNTED SERVICE FAUCET, MOP HANGER BRACKET AND STAINLESS STEEL STRAINER AT MS-1 LOCATION.
9. ALL FIXTURES SHALL BE SUBMITTED AND APPROVED BY ENGINEER.
10. PROVIDE 4" DEEP-SEAL TRAP FOR ALL FLOOR DRAINS.

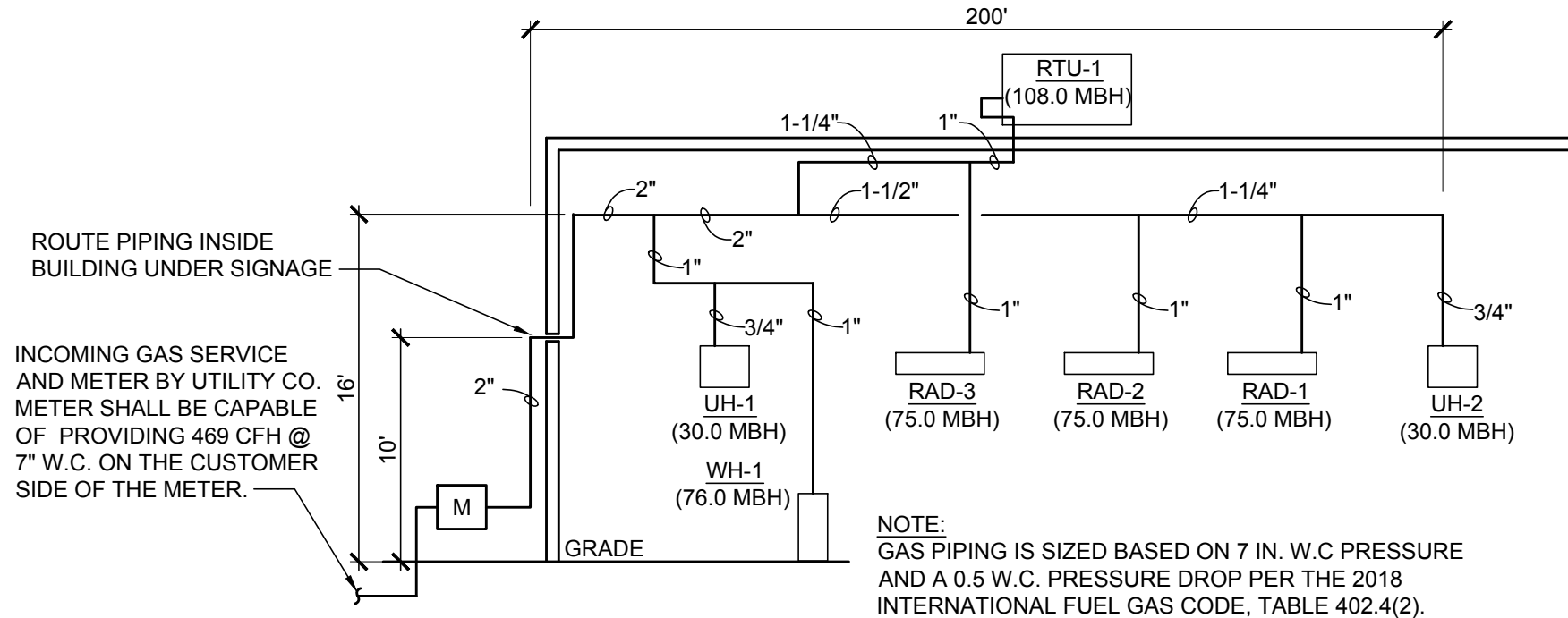
GAS FIRED WATER HEATER SCHEDULE							
TAG	AREA SERVED	MANUFACTURER	MODEL NUMBER	STORAGE CAPACITY	RECOVERY CAPACITY	MBH INPUT	VOLTS/ PHASE
WH-1	BUILDING	A. O. SMITH	BTX-80	50 GAL	83 GPH @ 100° TEMP RISE	76	120/1

ACCEPTABLE MANUFACTURERS FOR EQUIVALENT OF SCHEDULE PRODUCT (NO OTHER SUBSTITUTIONS WILL BE ALLOWED):
* SEE SPECIFICATIONS

NOTES:
1. WATER HEATER FURNISHED AND INSTALLED BY CONTRACTOR.
2. PROVIDE THROUGH ROOF VENT TERMINATION PER MANUFACTURER'S RECOMMENDATIONS.
3. SET DISCHARGE TEMPERATURE OF WATER HEATER TO OPERATE AT 140 DEG F MAX. (FOR MOP SINK USE ONLY, SEE PLUMBING NOTES AND WATER PIPING DIAGRAM).
4. ROUTE T&P RELIEF DRAIN AND OTHER DRAIN PIPING TO FLOOR DRAIN. TERMINATE 2" ABOVE RIM LEVEL.
5. PROVIDE PRE-MANUFACTURED 18" HEIGHT STEEL WATER HEATER STAND RATED FOR A 50 GALLON WATER HEATER.

GAS PRESSURE REGULATOR SCHEDULE					
MANUFACTURER	MODEL NUMBER	CFH CAPACITY	INLET PRESSURE	OUTLET PRESSURE	SPRING COLOR RANGE-ORIFICE
ACTARIS	B-31R 3/4"x3/4"	UP TO 150	2 P.S.I.G.	7 INCHES W.C.	LT. GREEN 5.5 TO 8.0 INCHES W.C.-1/8"
ACTARIS	B-31R 3/4"x1"	150 TO 400	2 P.S.I.G.	7 INCHES W.C.	LT. GREEN 5.5 TO 8.0 INCHES W.C.-1/4"
ACTARIS	B-31R 1"x1"	400 TO 800	2 P.S.I.G.	7 INCHES W.C.	LT. GREEN 5.5 TO 8.0 INCHES W.C.-3/8"

NOTES:
1. REGULATOR ARE FULL CAPACITY INTERNAL RELIEF TYPE.
2. REGULATOR TO BE INSTALLED WITH RELIEF VENT IN POSITION TO PREVENT ENTRANCE OF WATER (PROVIDE SCREENED VENT ELBOW AS REQUIRED).
3. TAG REGULATOR WITH INLET AND OUTLET SETTINGS, AFFIX WARNING 'DO NOT REMOVE'.



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ISSUE BLOCK

1	04/16/20	ADD #1
2	06/30/20	CB #1
3	07/23/20	IFC

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 SCHEDULES AND RISERS
SHEET NUMBER:
P6

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-M40K-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.
INSTALL LIGHTS AT 8'-0" AFF IN THE FOLLOWING AREAS: UTILITY AREA, BREAK ROOM, SHOP TOILET AND UNISEX TOILET.
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

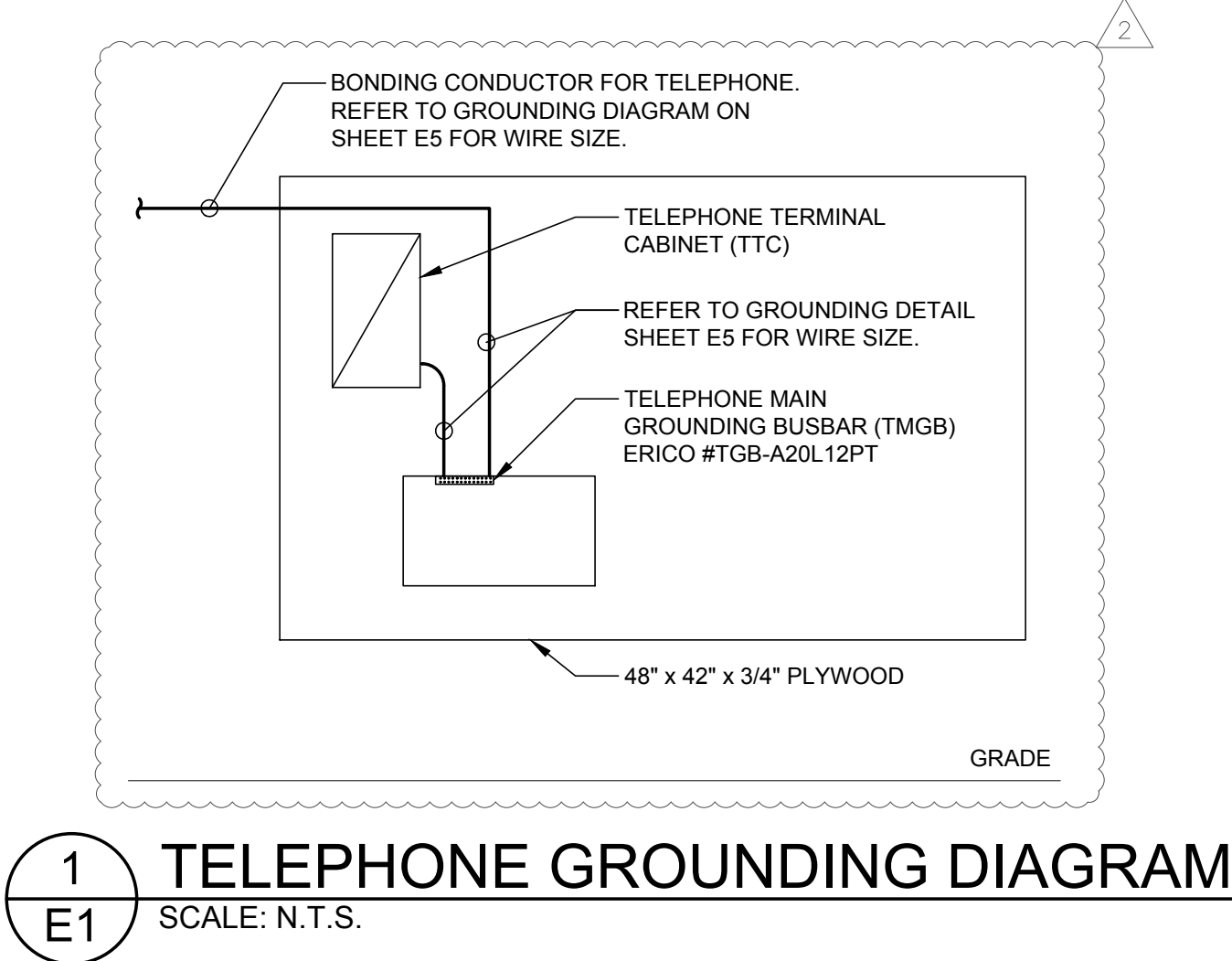
1. ALL LIGHTING FIXTURES SHALL BE RATED FOR BUILDING SYSTEM VOLTAGE. CONTRACTOR MUST VERIFY ALL LOCATIONS. CONTRACTOR SHALL FURNISH AND INSTALL EACH LIGHTING FIXTURE COMPLETE WITH PLASTER FRAMES AND ALL OTHER INSTALLATION AND HANGING HARDWARE AS REQUIRED FOR A COMPLETE AND FINISHED INSTALLATION AT EACH 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"

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.



ELECTRICAL SHOP EQUIPMENT SCHEDULE

ITEM #	QUANTITY	DESCRIPTION	VOLTS	PHASE	POLE	AMPS	NOTES
9	1	AIR DRYER CHAMPION #CRH35	120	1	1	20	SEE DETAIL ON SHEET E4 FOR ADDITIONAL INFORMATION
10	1	BRAKE SHOP #BL505-AB (INSTALLED BY HUNTER)	120	1	1	20	PROVIDE RECEPTACLE ON UNISTRUT LADDER. RUN CONDUIT DOWN LADDER FROM CEILING.
13A	1	ELECTRONIC WHEEL BALANCER #RFE13 (INSTALLED BY HUNTER)	208	1	2	20	CUT CORD & PLUG FOR HARDWIRED CONNECTION. MOUNT DISCONNECT AT 48" AFF. PLACE DEVICES BEHIND CENTER CONSOLE IN ORDER TO NOT INTERFERE WITH OPENING EQUIPMENT SHROUD.
13B	1	ELECTRONIC WHEEL BALANCER #SWT33 (INSTALLED BY HUNTER)	208	1	2	20	CUT CORD & PLUG FOR HARDWIRED CONNECTION. MOUNT DISCONNECT AT 48" AFF ON UNISTRUT LADDER. RUN CONDUIT DOWN FROM CEILING. PLACE DEVICES BEHIND CENTER CONSOLE IN ORDER TO NOT INTERFERE WITH OPENING EQUIPMENT SHROUD.
17	2	CORD REEL POWER DROP	120	1	1	20	MOUNT TO ROOF STRUCTURE AT LOCATION SHOWN. CIRCUIT WILL HAVE GFCI PROTECTION AT BREAKER. INSTALL TO AVOID CONFLICT WITH OTHER EQUIPMENT. SEE DETAIL ON SHEET E4 FOR ADDITIONAL INFORMATION.
18B	1	TIRE CHANGER #TCR1S (INSTALLED BY HUNTER)	208	1	2	30	PROVIDE NEMA L6-30R ON UNISTRUT LADDER. RUN CONDUIT DOWN LADDER FROM CEILING.
28	2	5 HP AIR COMPRESSOR CHAMPION #VR5-8	208	3	3	30	SEE ONE-LINE DIAGRAM ON SHEET E5 AND DETAIL ON SHEET E4 FOR ADDITIONAL INFORMATION. PROVIDE 30A, 3-POLE, LOCKABLE DISCONNECT WITH LOCK. MAKE ALL FINAL POWER TERMINATIONS ADJACENT TO AIR PIPE MANIFOLD ON COMPRESSOR.

NOTES:
VERIFY ALL ELECTRICAL REQUIREMENTS AND NEMA CONFIGURATIONS TO ACTUAL EQUIPMENT SUPPLIED PRIOR TO ROUGH-IN.

POWER PLAN GENERAL NOTES

- A. ALL DEVICES LOCATED IN SERVICE AREA SHALL BE MOUNTED AT 48" AFF TO TOP OF BOX, UNLESS NOTED OTHERWISE.
- B. 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.
- C. 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.
- D. WIRE ALL HVAC CONTROL DEVICES, AND COORDINATE WITH OTHERS, SEE "GENERAL ELECTRICAL NOTES" ON SHEET E1 FOR ADDITIONAL INFORMATION.

DATA REQUIREMENTS

2 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.

SERVER CABINET POWER REQUIREMENTS:
 PROVIDE ONE (1) QUAD RECEPTACLE ON RIGHT SIDE OF SERVER

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.

EQUIPMENT RECEPTACLE:
 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.

"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.

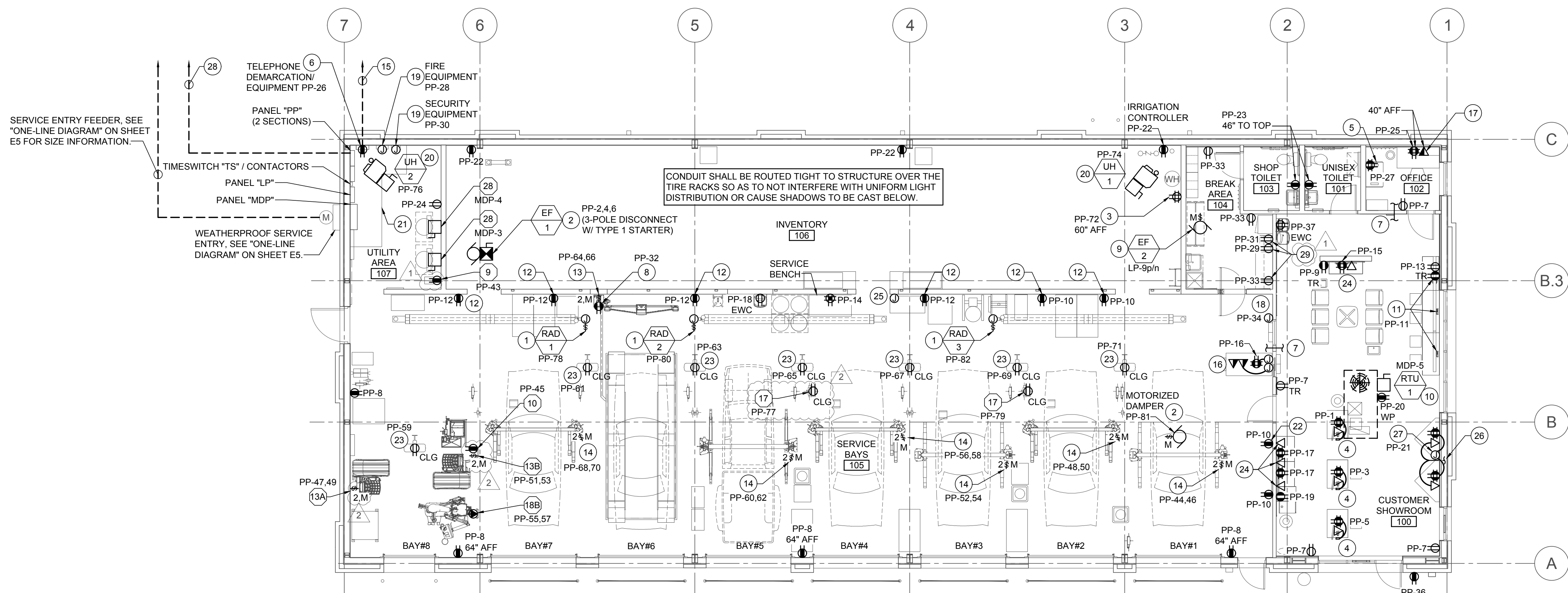
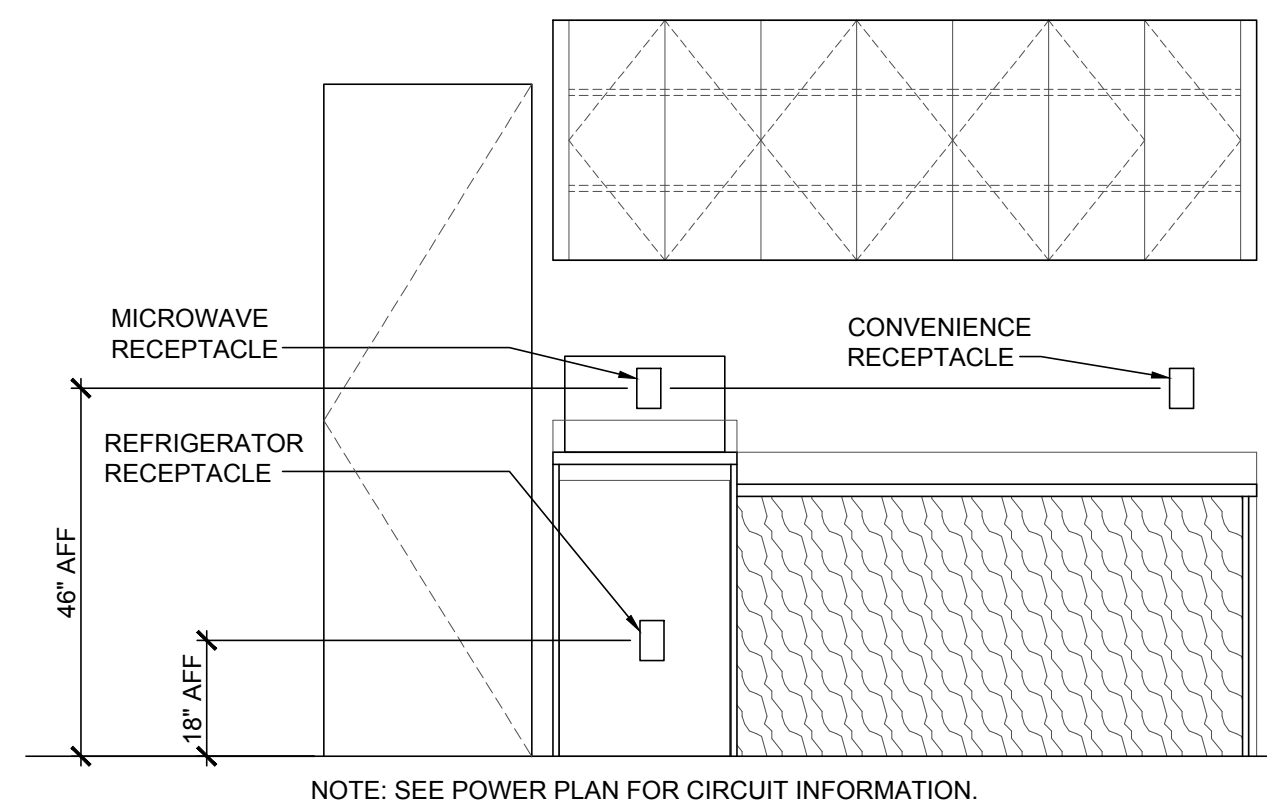
SERVER CABINET POWER REQUIREMENTS:
PROVIDE ONE (1) QUAD RECEPTACLE ON RIGHT SIDE OF SERVER
CABINET MOUNTED AT 11'-0" AFF AND CIRCUIT AS SHOWN. REFER TO
SHEET A7 FOR ADDITIONAL INFORMATION.

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.

BREAK COUNTER ELEVATION

SCALE: N.T.S



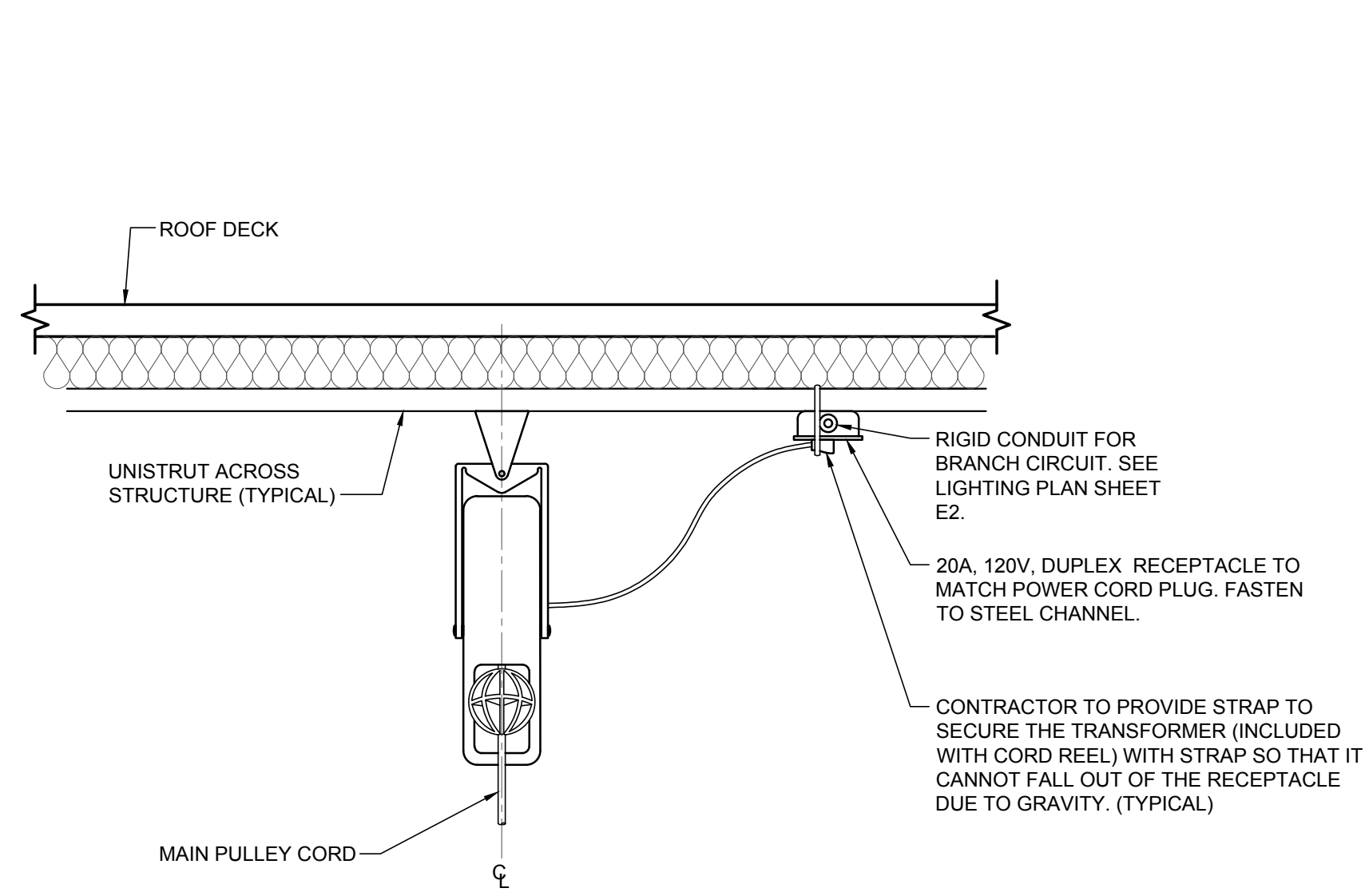
1 POWER PLAN

F3 / SCALE: 1/8" = 1'-0"

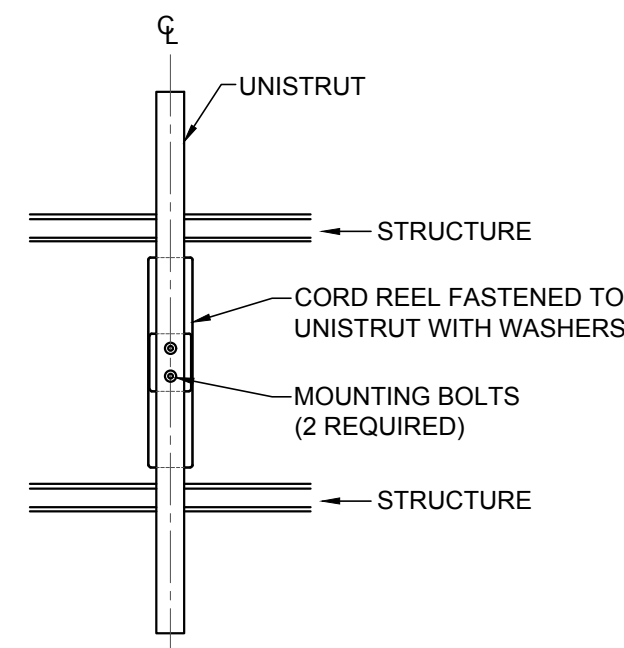
POWER PLAN KEYNOTES

1. 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.
2. 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.
3. PROVIDE DOUBLE DUPLEX RECEPTACLE FOR "RP-1" AND "WH-1". COORDINATE LOCATION OF "WH-1" AND "RP-1" WITH PLUMBING CONTRACTOR.
4. 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.
5. REFER TO "DATA REQUIREMENTS" (THIS SHEET) FOR POWER AND CONDUIT INFORMATION IN SERVER CABINET.
6. PLYWOOD BACKBOARD. SEE "TELEPHONE GROUNDING DIAGRAM" ON SHEET E1.
7. 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.
8. 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.
9. RESTROOM EXHAUST FAN. PROVIDE ALL ACCESSORIES AS REQUIRED TO CONTROL EXHAUST FAN FROM OCCUPANCY SENSORS IN RESTROOMS.
10. 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.
11. ROUTE CORDS FOR POWER STRIPS TO RECEPTACLE SHOWN. CONCEAL ALL CORDS IN NEAT AND CLEAN MANNER.
12. MOUNT RECEPTACLE ON PLYWOOD AT 46" AFF FOR TEMPORARY POWER FOR SMALL HAND TOOL BATTERY RECHARGING.
13. PROVIDE 30A, 2-POLE, NON-FUSED, LOCKABLE (WITH LOCK PROVIDED) DISCONNECT SWITCH (SIEMENS #MMMSG1) 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.
14. PROVIDE 30A, 2-POLE, NON-FUSED, LOCKABLE (WITH LOCK PROVIDED) DISCONNECT SWITCH (SIEMENS #MMMSG1) FOR ROTARY LIFT EQUIPMENT CONTROL UNIT, UNLESS NOT ALLOWED BY AHJ. INSTALL DISCONNECT BELOW DECAL ON LIFT POST SO THAT CONDUIT AND DISCONNECT 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.
15. 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.
16. REFER TO "DATA REQUIREMENTS" (THIS SHEET) FOR POWER AND CONDUIT INFORMATION IN "MVS" STATION.
17. CONDUIT ASSOCIATED WITH DATA BOX SHALL BE EXTENDED TO SERVER CABINET PROVIDE PULL STRINGS IN CONDUIT.
18. PROVIDE 120V POWER CONNECTION FOR TOXALERT SYSTEM CONTROL PANEL.
19. 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.
20. PROVIDE POWER TO FACTORY MOUNTED DISCONNECT SWITCH. COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR.
21. MEET ALL ELECTRICAL EQUIPMENT CLEARANCES BOTH HORIZONTALLY AND VERTICALLY IN THIS SPACE.
22. PROVIDE RECEPTACLE FOR "NO LOSS DAYS" SIGN AT 11-0" AFF. VERIFY EXACT LOCATION WITH CONSTRUCTION MANAGER PRIOR TO ROUGH-IN.
23. PROVIDE WORKSTATION FAN (LINE #H-4092). RECEPTACLE FOR WORKSTATION FAN IS SUSPENDED FROM STRUCTURE. CIRCUIT WILL HAVE GFCI PROTECTION AT BREAKER. SEE SHEET E2 FOR CONTROLS AND SHEET E4 FOR MOUNTING INFORMATION.
24. 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.
25. PROVIDE JUNCTION BOX FOR TOXALERT INSTALL SENSOR AND PROVIDE WIRING BETWEEN TOXALERT PANEL AND SENSOR. COORDINATE LOCATIONS WITH MECHANICAL CONTRACTOR.
26. PROVIDE JUNCTION BOX FOR DATA CONNECTION AT MRT DISPLAY. MOUNT DATA RECEPTACLE 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.
27. 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 L-BOX IN WALL TO EACH RECEPTACLE MOUNTED INSIDE MRT CABINET. COORDINATE EXACT CONNECTION MILLWORK PRIOR TO ROUGH IN.
28. 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.
29. REFER TO "BREAK COUNTER ELEVATION" (THIS SHEET) FOR MORE INFORMATION.

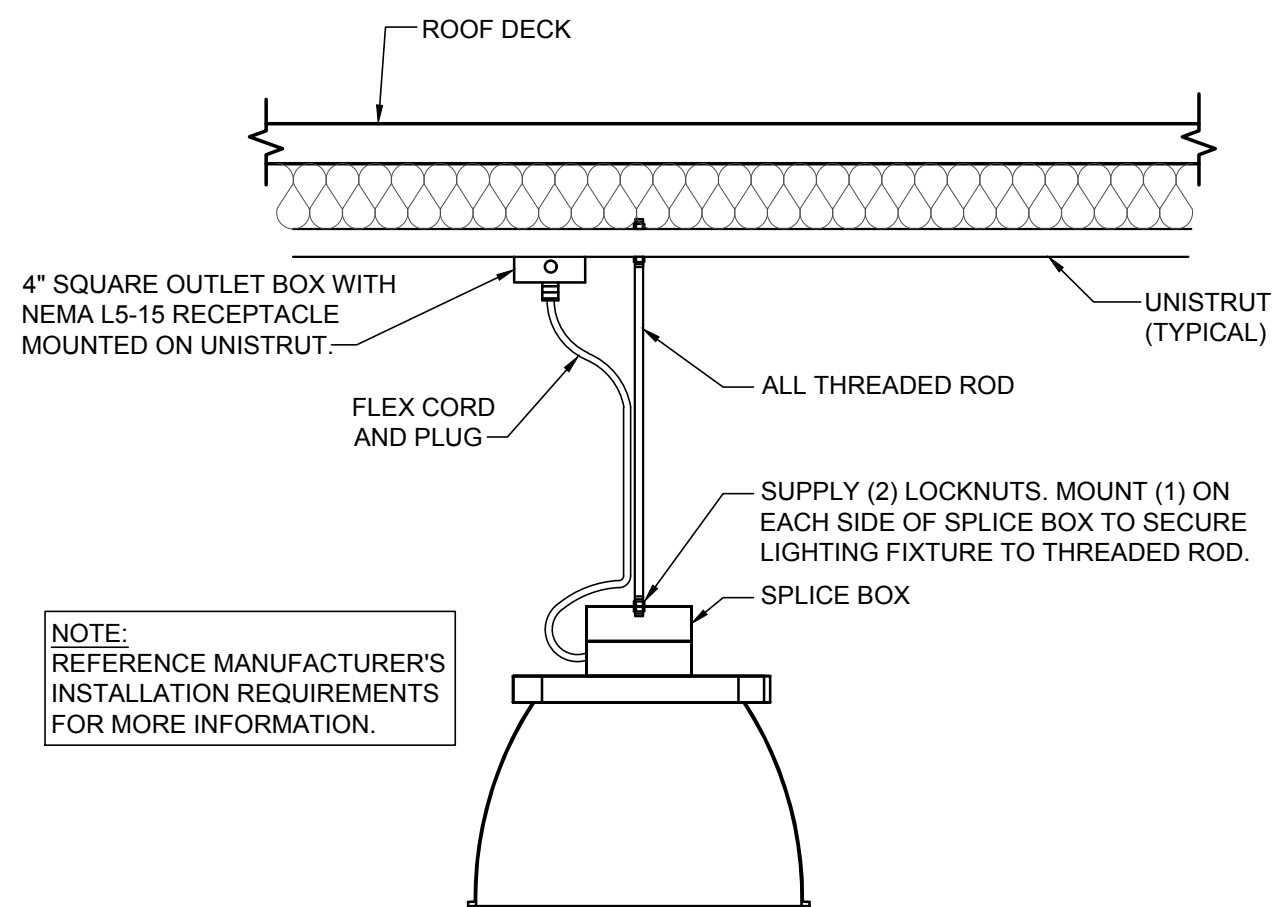
SHEET NUMBER:



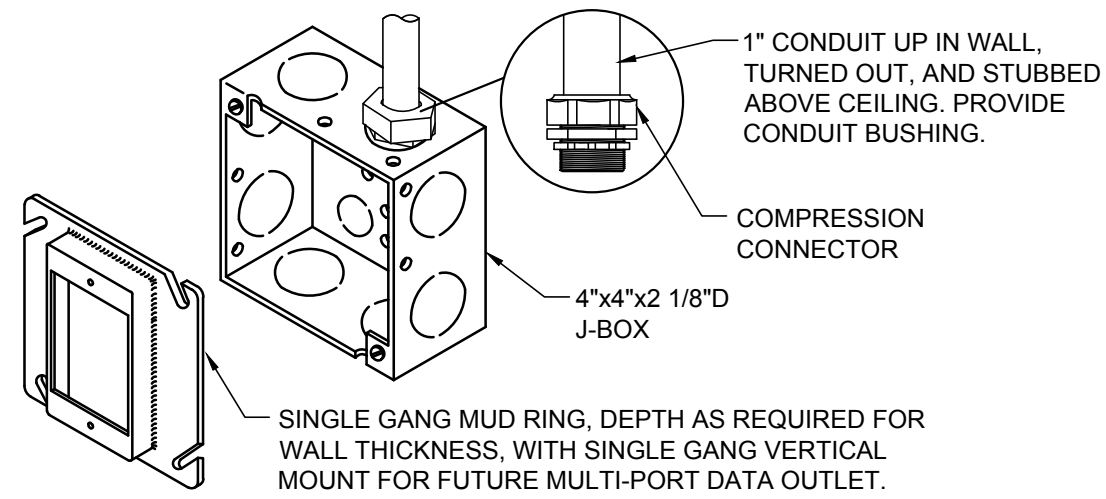
1
E4 CORD REEL LIGHT DETAIL
SCALE: NONE



2
E4 POWER CORD REEL DETAIL
SCALE: NONE

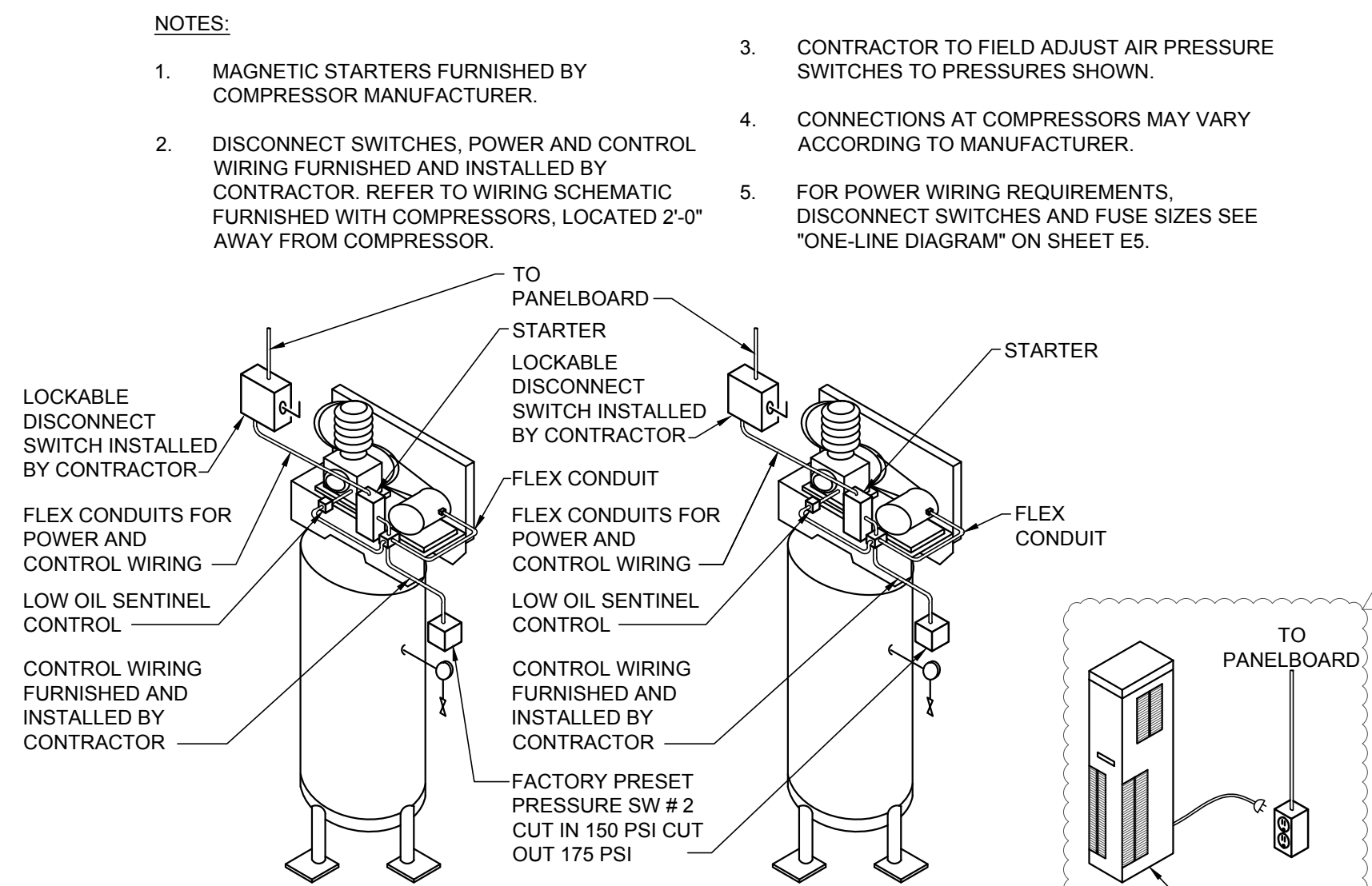


3
E4 TYPICAL LIGHT TYPE "F" MOUNTING DETAIL
SCALE: NONE

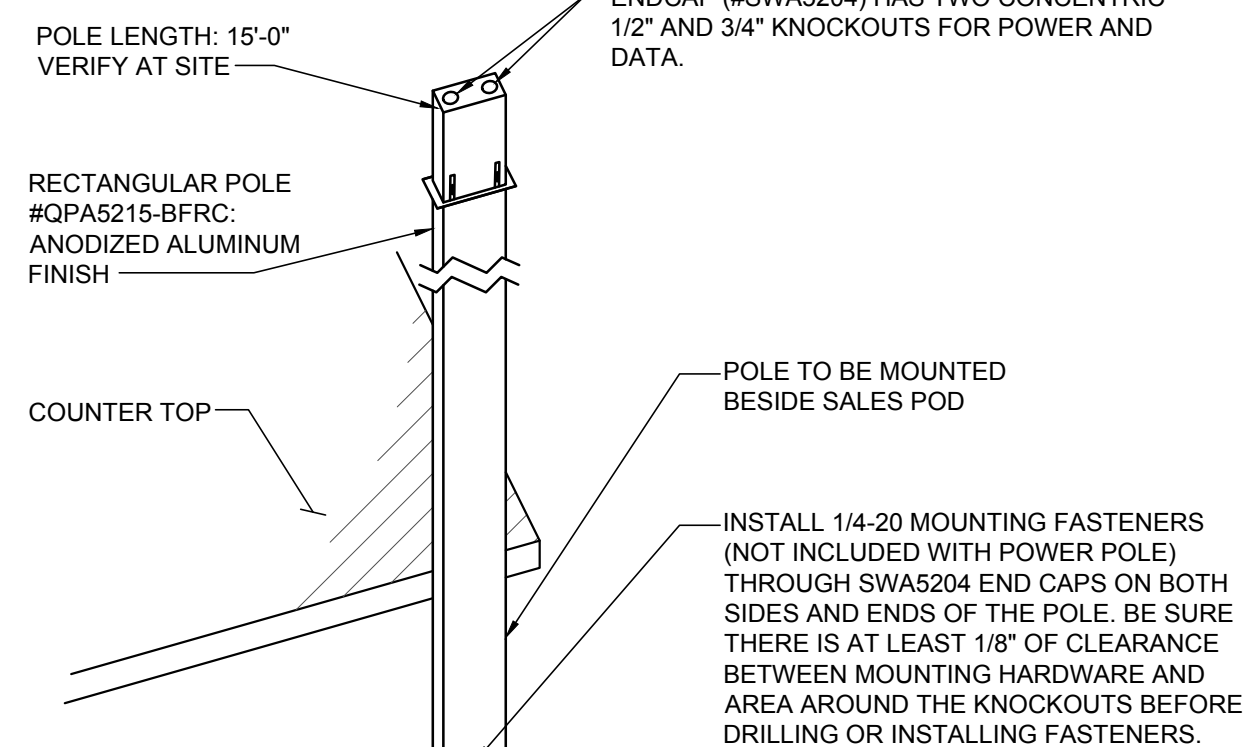


NOTE:
1. PROVIDE BLANK COVER AS REQUIRED.

4
E4 TYPICAL MUD RING JUNCTION BOX DETAIL
SCALE: NONE

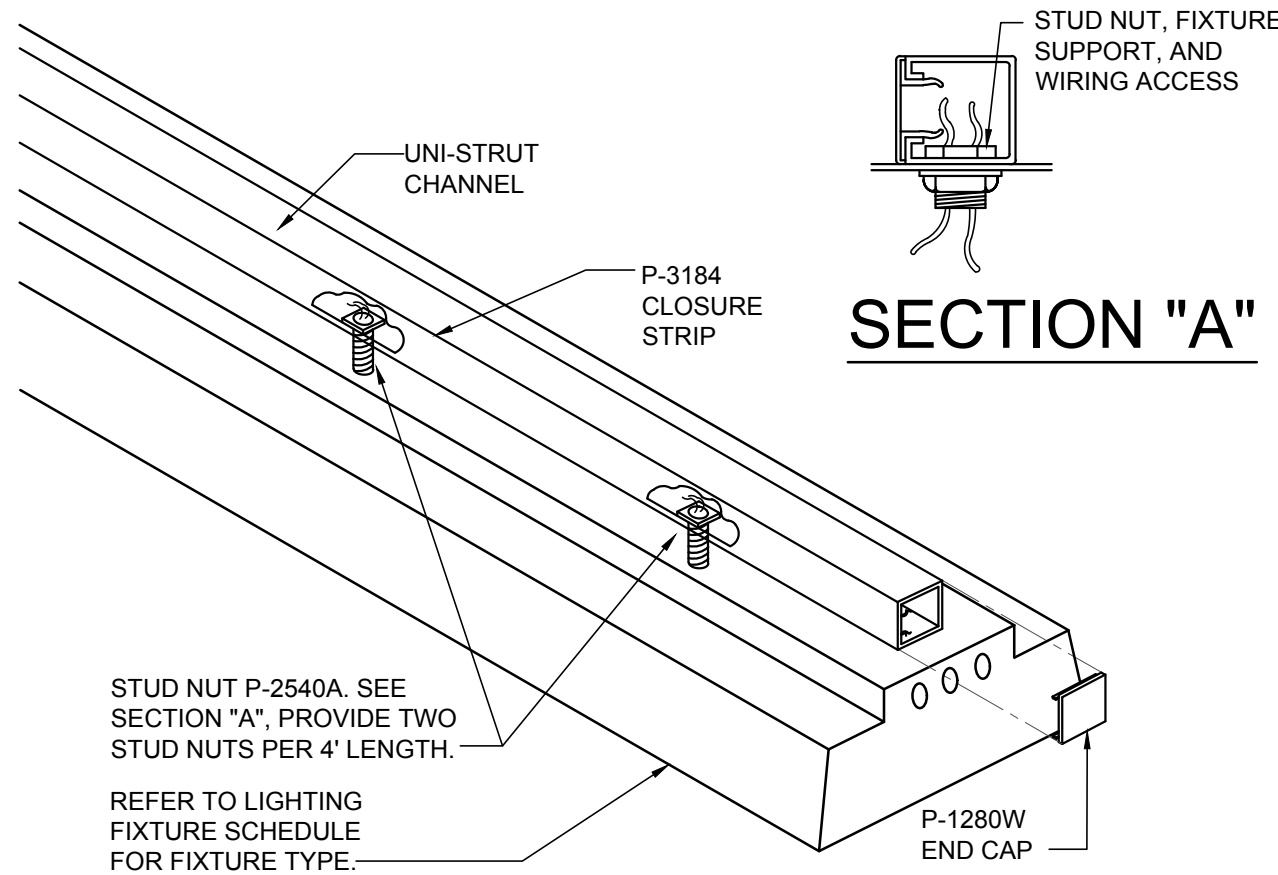


5
E4 VERTICAL AIR COMPRESSOR DETAIL
SCALE: NONE

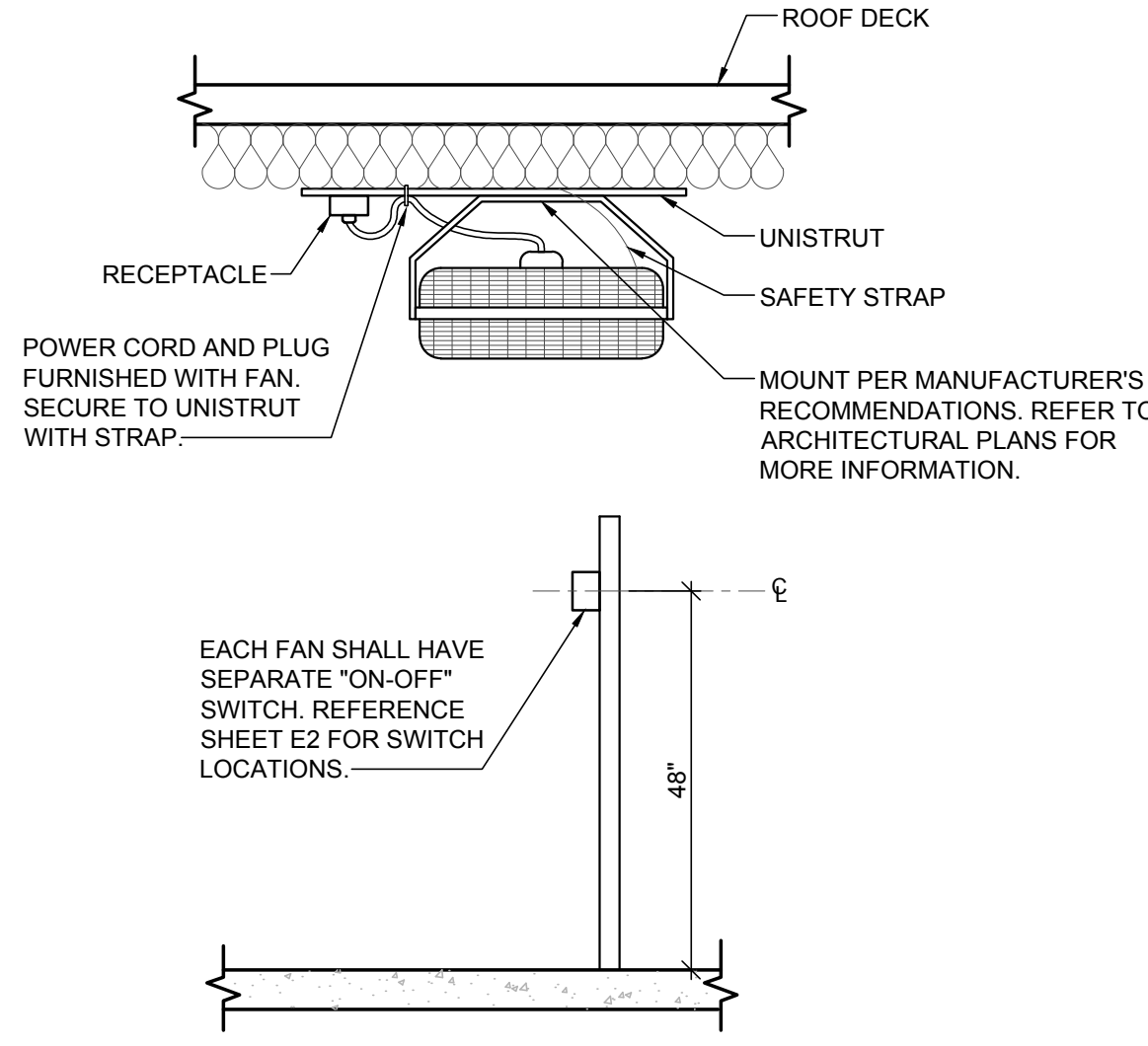


NOTE:
POWER POLE AND ACCESSORIES BY "MONO-SYSTEMS INC." FURNISHED BY OWNER PER SHEET F2, INSTALLED BY CONTRACTOR.

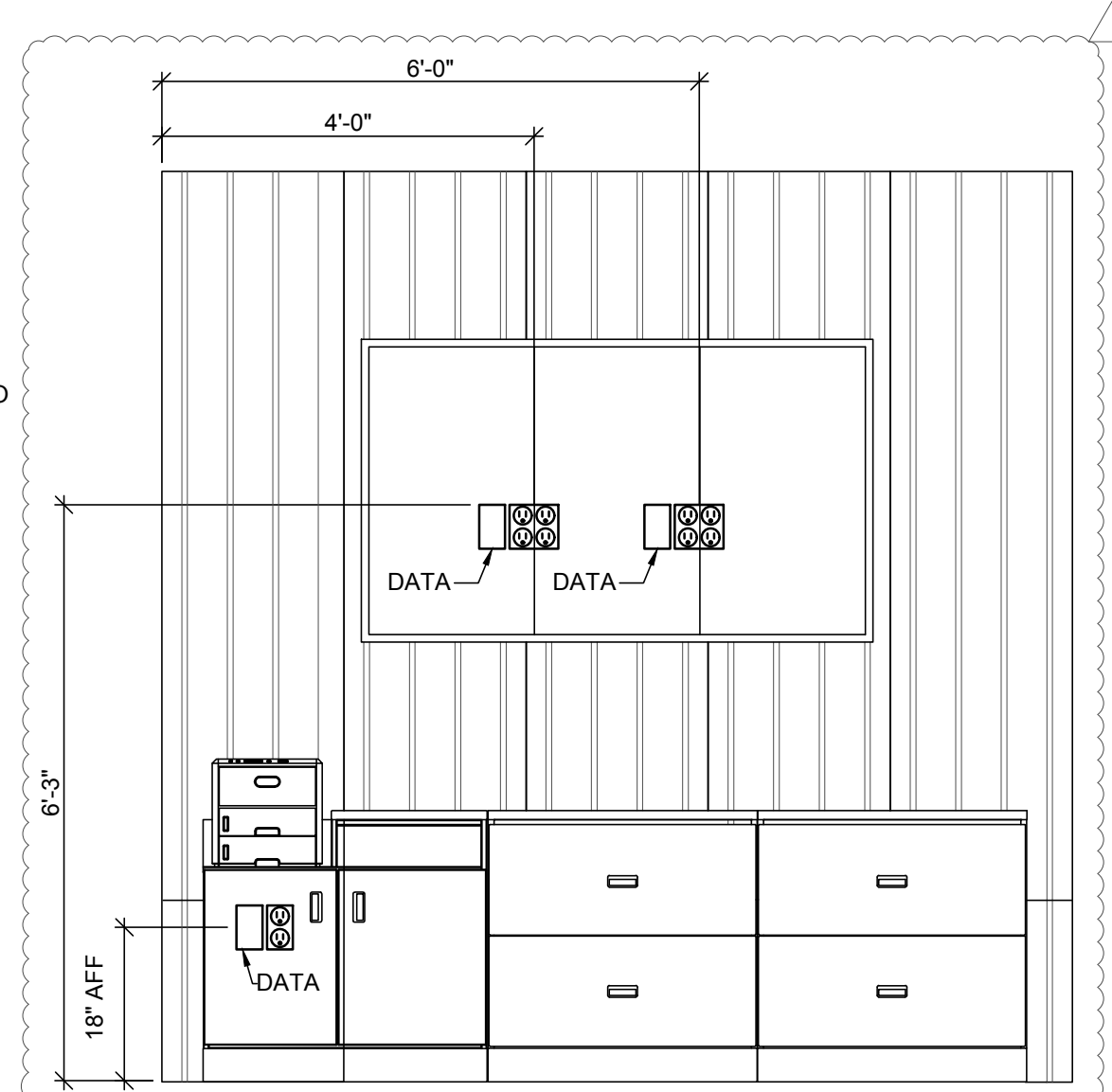
6
E4 DATA/POWER POLE DETAIL
SCALE: NONE



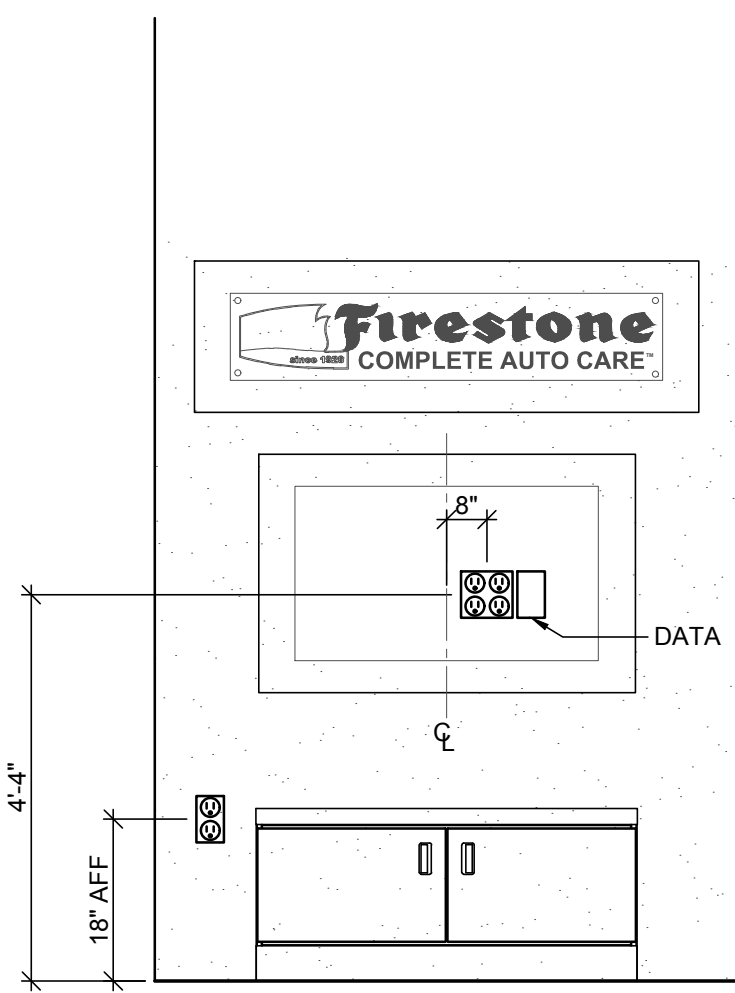
7
E4 TYPICAL LIGHT FIXTURE MOUNTING DETAIL
SCALE: NONE



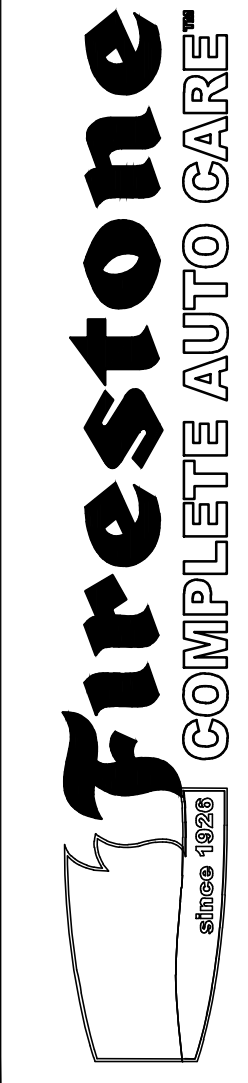
8
E4 TYPICAL FAN MOUNTING DETAIL
SCALE: NONE



9
E4 DISPLAY SCREENS DETAIL
SCALE: NONE



10
E4 TV WALL DETAIL
SCALE: NONE



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



ISSUE BLOCK		
1	04/16/20	ADD #1
2	06/30/20	CB #1
3	07/23/20	IFC

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
DETAILS

SHEET NUMBER:
E4

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	4,800	x	125%	=				6,000
	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)		104,966	SUB-TOTAL (VA)		121,271				
SUB-TOTAL (AMPS)		291	SUB-TOTAL (AMPS)		337				
			SERVICE SIZE (AMPS)		400				
			SPARE CAPACITY (AMPS)		63				

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	26,139			5,052	OL	3	OL	PANELBOARD "LP"	2			
					22,319	26,015			3,696								
					20,989	24,080			3,091								
					1,825	3,651		1,825									
					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								
5	RTU-1 (HACR BREAKER)	OL	3	OL	3,543	3,543			0				SPACE ONLY	6			
					3,543	3,543			0								
					3,543	3,543			0								
					3,543	3,543			0								
PER PHASE SUB-TOTALS						35,332	33,208	31,273	LEGEND:								
TOTAL CONNECTED PANELBOARD (VA)						99,813			TS - VIA TIME SWITCH								
TOTAL CONNECTED PANELBOARD (AMPS)						277			GF - GROUND FAULT INTERRUPTER								
TOTAL PANELBOARD DEMAND (VA)						111,558			FA - FIRE ALARM / RED / LOCKING TAB								
TOTAL PANELBOARD DEMAND (AMPS)						310			EM - EMERGENCY LTG. / LOCKING TAB								
												ST - SHUNT TRIP					
												LCK - LOCKING TAB					
												IG - ISOLATED GROUND					
												OL - REFER TO ONE-LINE DIAGRAM					

PANELBOARD LP														
		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	BREAKER AMPS	P	WIRE SIZE	LOAD (VA)	CONNECTED PER PHASE (VA)			LOAD (VA)	WIRE SIZE	BREAKER P	BREAKER	CIRCUIT DESCRIPTION	CKT #
						A	B	C						
EM 1	SERVICE AREA / EM LTG	20	1	12	1,488	2,488			1,000	12	1	20	TIME SWITCH AND CONTACTORS	1
	SERVICE AREA LTG	20	1	12	1,562		1,562		0		1	20	SPARE	2
	SPARE	20	1	0				1,200	1,200	12	1	20	BUILDING SIGN	3
EM 3	INVENTORY / UTILITY RM / EM LTG	20	1	12	748	1,948			1,200	12	1	20	BUILDING SIGN	6
	OFFICE / TOILET / BREAK / EM LTG & EF-2	20	1	12	934	2,134			1,200	12	1	20	BUILDING SIGN	8
M,TS 9	CUSTOMER SHOWROOM / EM LTG	20	1	12	539			539	0		1	20	SPARE	10
	SITE LIGHTING	20	1	SL	430	430			0		1	20	SPARE	14
TS 15	SPARE	20	1	0				0	0		1	20	SPARE	16
	EXTERIOR LIGHTING	20	1	12	152			1,352	1,200	SL	1	20	MONUMENT SIGN	18
TS 19	EXTERIOR LIGHTING	20	1	12	186	186			0		1	20	SPARE	20
	SPARE	20	1	0			0	0	0		1	20	SPARE	22
23	SPARE	20	1	0				0	0		1	20	SPARE	24
	SPARE	20	1	0		0		0	0		1	20	SPARE	26
27	SPARE	20	1	0		0		0	0		1	20	SPARE	28
	SPARE	20	1	0				0	0		1	20	SPARE	30
PER PHASE SUB-TOTALS						5,052	3,696	3,091	LEGEND:					
TOTAL CONNECTED PANELBOARD (VA)						11,839			TS - VIA TIME SWITCH			ST - SHUNT TRIP		
TOTAL CONNECTED PANELBOARD (AMPS)						33			GF - GROUND FAULT INTERRUPTER			LCK - LOCKING TAB		
TOTAL PANELBOARD DEMAND (VA)						14,549			FA - FIRE ALARM / RED / LOCKING TAB			IG - ISOLATED GROUND		
TOTAL PANELBOARD DEMAND (AMPS)						40			EM - EMERGENCY LTG. / LOCKING TAB			OL - REFER TO ONE-LINE DIAGRAM		
SL - REFER TO SITE LIGHTING PLAN ESL1														

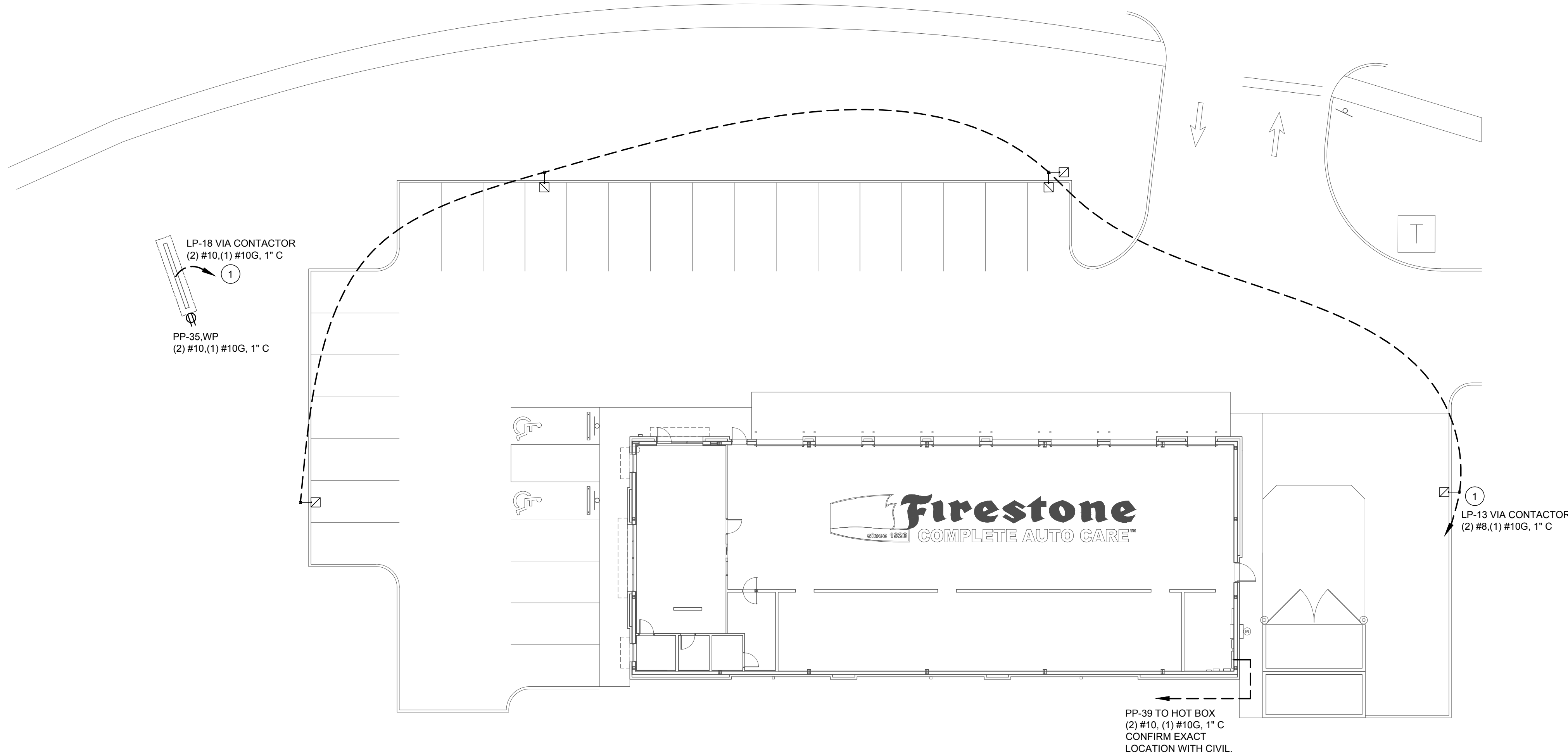
PANELBOARD PP																	
BUS AMPS: 200A MAIN SIZE / TYPE: MLO VOLTS/PHASE: 208Y/120V, 3PH, 4W MOUNTING: SURFACE				LOCATION: NEMA RATING: AFC VALUE: AIC RATING: UTILITY AREA NEMA 1 17,264A 22,000 A FULLY RATED				GROUND BUS: YES ISOL. GROUND BUS: YES FEED THRU LUGS: YES SECTIONS: 2									
CKT #	CIRCUIT DESCRIPTION	BREAKER		WIRE SIZE	LOAD (VA)	CONNECTED PER PHASE (VA)			LOAD (VA)	WIRE SIZE	BREAKER		CIRCUIT DESCRIPTION	CKT #			
		AMPS	P			A	B	C			P	AMPS					
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	360			860	360	12	1	20	MVS DESK IG RCPT	16			
17	MENU BOARDS	20	1	8	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	8	1,200			1,560	360	12	1	20	OPTIONAL SECURITY SYSTEM	30			
31	REFRIGERATOR	20	1	8	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	8	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	8	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			
59	SHOP FAN #42	20	1	12	264			1,864	1,600	10	2	20	SMART LIFT (BAY #5)	60			
61	SHOP FAN #42	20	1	12	264	1,864			1,600					62			
63	SHOP FAN #42	20	1	12	264		2,964		2,700	8	2	30	ALIGNMENT LIFT (BAY #6)	64			
65	SHOP FAN #42	20	1	12	264			2,964	1,600	10	2	20	SMART LIFT (BAY #7)	66			
67	SHOP FAN #42	20	1	12	264	1,864			1,600					68			
69	SHOP FAN #42	20	1	12	264		1,864		1,600					70			
71	SHOP FAN #42	20	1	12	264			664	400	12	1	20	WATER HEATER / RECIRC. PUMP	72			
73	SPARE	20	1	0	0	414			414	12	1	15	UNIT HEATER UH-1	74			
75	OVERHEAD DROP LIGHTS #2	20	1	12	200		614		414	12	1	15	UNIT HEATER UH-2	76			
77	POWER CORD REEL #17	20	1	10	1,500			1,860	360	12	1	20	RADIANT HEATER RAD-1	78			
79	POWER CORD REEL #17	20	1	10	1,500	1,860			360	12	1	20	RADIANT HEATER RAD-2	80			
81	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 - GROUND FAULT INTERRUPTER								
TOTAL PANELBOARD DEMAND (VA)						66,184			FA - 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					

SITE LIGHTING PLAN GENERAL NOTES

- FURNISH AND INSTALL ALL CONDUIT, WIRE AND DEVICES REQUIRED FOR MONUMENT SIGN. VERIFY LOCATION AND REQUIREMENTS WITH SIGN MANUFACTURER PRIOR TO ROUGH-IN.
- PROVIDE ALL GROUNDING FOR MONUMENT SIGN PER MANUFACTURER'S AND LOCAL CODE REQUIREMENTS.
- REFERENCE PHOTOMETRIC SITE LIGHTING SHEET FOR THE FOLLOWING INFORMATION:
 - POLE SPECIFICATIONS
 - LIGHTING FIXTURE MOUNTING HEIGHT
 - LIGHTING FIXTURE SPECIFICATIONS
 - LIGHTING FIXTURE DESIGNATIONS
- REFER TO SHEET E2 FOR BUILDING MOUNTED LIGHT FIXTURE LOCATIONS AND DESIGNATIONS

SITE LIGHTING PLAN KEYNOTES

- REFERENCE SHEET E5 FOR CONTACTOR DIAGRAM AND PANELBOARD SCHEDULES.



1
ESL1 **ELECTRICAL SITE PLAN**
SCALE: 1/16" = 1'-0"

REVISION OF ISSUE
THIS DRAWING WAS PREPARED FOR USE ON A SPECIFIC SITE AT LEE'S SUMMIT, MO. CONTEMPORARILY WITH ITS ISSUE DATE ON 06/30/2020 AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION 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



ISSUE BLOCK			
1	04/16/20	ADD	#1
2	06/30/20	CB	#1
3	07/23/20	IFC	
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:
**SITE
LIGHTING
PLAN**
SHEET NUMBER:
ESL1