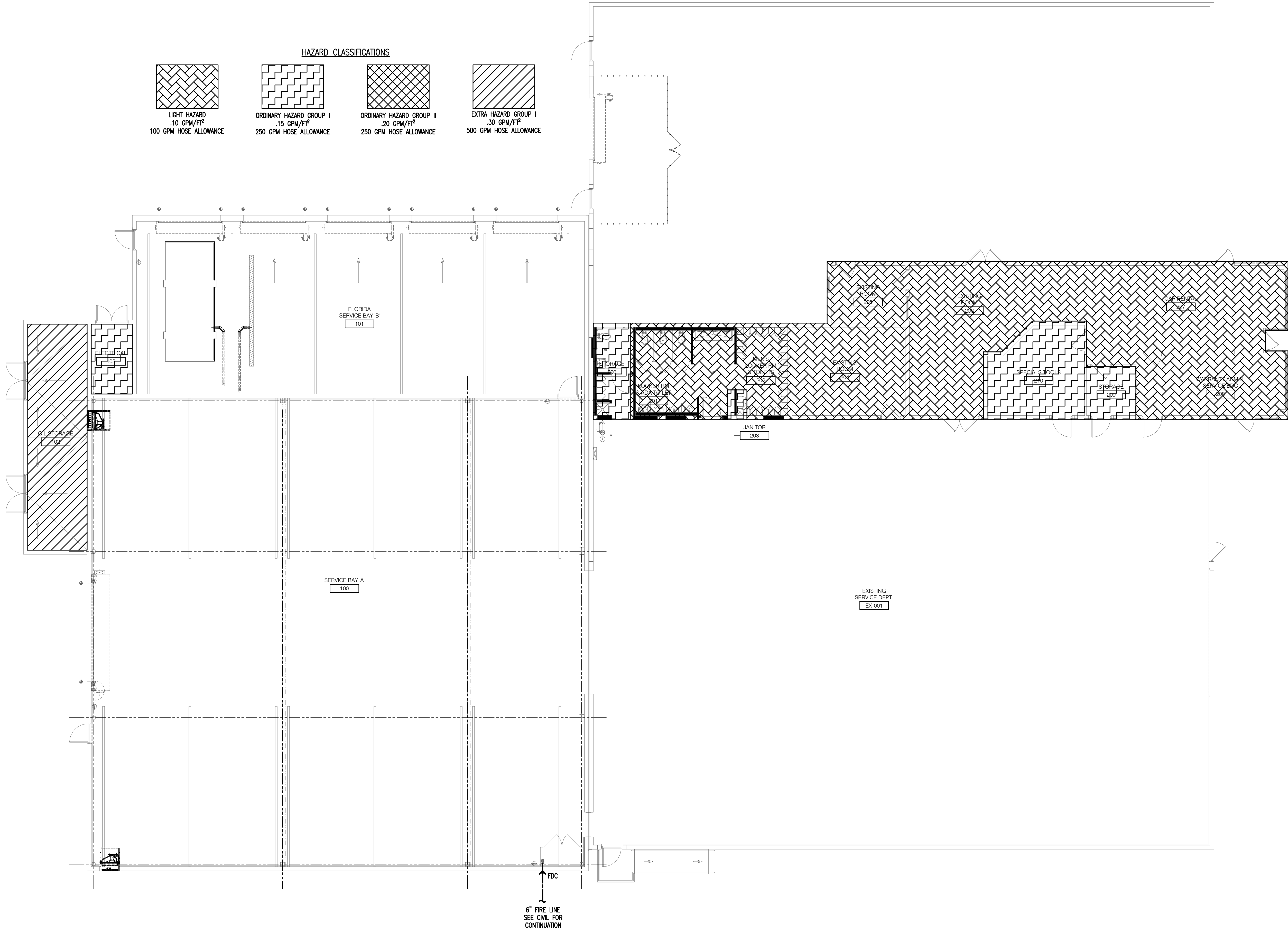




1 EXISTING SERVICE BUILDING: LOWER LEVEL FIRE PROTECTION FLOOR PLAN
SCALE: 1/8" = 1'-0"

FIRE PROTECTION NOTES

THE FIRE SPRINKLER CONTRACTOR SHALL PROVIDE COMPLETE FIRE PROTECTION SYSTEM LAYOUT DOCUMENTS THOROUGHLY COORDINATED WITH THE CONSTRUCTION DOCUMENTS AND THE OTHER TRADES. ALL LAYOUT WORK SHALL BE IN ACCORDANCE WITH THE FOLLOWING;

1. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) PAMPHLET NO. 13 (CURRENT EDITION) THE "STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS".
2. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) PAMPHLET NO. 14 (CURRENT EDITION) THE "STANDARD FOR THE INSTALLATION OF STANDPIPES AND HOSE SYSTEMS".
3. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) PAMPHLET NO. 20 (CURRENT EDITION) THE "STANDARD FOR THE INSTALLATION OF CENTRIFUGAL PUMPS".
4. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) PAMPHLET NO. 24 (CURRENT EDITION) THE "STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAIN AND THEIR APPURTENANCES".
5. 2023 FLORIDA BUILDING CODE AND THE LIFE SAFETY CODE (NFPA 101 (CURRENT EDITION)
6. WHERE ADDITIONAL OR MORE STRINGENT REQUIREMENTS ARE NOTED ON THE DRAWINGS OR SPECIFIED BY LOCAL ORDINANCES, THE MORE STRINGENT REQUIREMENTS SHALL APPLY. PARTICULAR ATTENTION SHOULD BE GIVEN TO LOCAL ORDINANCES PERTAINING TO STANDPIPE REQUIREMENTS.
7. THE FIRE SPRINKLER CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD TWO SETS OF THE FIRE SPRINKLER LAYOUT DRAWINGS, PRODUCT SUBMITTAL AND HYDRAULIC CALCULATIONS FOR REVIEW. THE FIRE SPRINKLER LAYOUT DRAWINGS AND CALCULATIONS SHALL REQUIRE THE OVERSIGHT AND SEAL OF A FLORIDA REGISTERED PROFESSIONAL ENGINEER AS A CONTRACTUAL REQUIREMENT. NO INSTALLATION SHALL PROCEED WITHOUT PRIOR APPROVAL OF THE ABOVE REFERENCED.
8. THE FIRE SPRINKLER CONTRACTOR SHALL SUBMIT THE REQUIRED FIRE PROTECTION SYSTEM LAYOUT DOCUMENTS TO THE LOCAL AUTHORITY HAVING JURISDICTION FOR APPROVAL AND PERMITTING AFTER RECEIVING APPROVED SHOP DRAWINGS FROM THE ENGINEER OF RECORD. THE FIRE PROTECTION SYSTEM LAYOUT DOCUMENTS SHALL REQUIRE THE OVERSIGHT AND SEAL OF A FLORIDA REGISTERED PROFESSIONAL ENGINEER AS A CONTRACTUAL REQUIREMENT. NO INSTALLATION SHALL PROCEED WITHOUT PRIOR APPROVAL OF THE ABOVE REFERENCED.
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10. THE FIRE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING A CURRENT FIRE FLOW TEST. THE FIRE FLOW TEST SHALL BE WITNESSED AND APPROVED BY THE LOCAL FIRE INSPECTOR.

LIGHT HAZARD DESIGN APPROACH DATA

SYSTEM(S) TYPE: WET PIPE
REMOTE AREA: MOST HYDRAULICALLY DEMANDING 1500 SQ. FT.
LIGHT HAZARD DENSITY: 0.10 GPM/ SQ. FT.
HEAD SPACING: 225 SQ. FT. PER HEAD (MAX.)

ORDINARY HAZARD GROUP I DESIGN APPROACH DATA

SYSTEM(S) TYPE: WET PIPE
REMOTE AREA: MOST HYDRAULICALLY DEMANDING 1500 SQ. FT.
ORDINARY HAZARD DENSITY: 0.15 GPM/ SQ. FT.
HEAD SPACING: 130 SQ. FT. PER HEAD (MAX.)

ORDINARY HAZARD GROUP II DESIGN APPROACH DATA

SYSTEM(S) TYPE: WET PIPE
REMOTE AREA: MOST HYDRAULICALLY DEMANDING 1500 SQ. FT.
ORDINARY HAZARD DENSITY: 0.20 GPM/ SQ. FT.
HEAD SPACING: 130 SQ. FT. PER HEAD (MAX.)

ORDINARY DRY HAZARD DESIGN APPROACH DATA

SYSTEM(S) TYPE: DRY PIPE
REMOTE AREA: MOST HYDRAULICALLY DEMANDING 1500 SQ. FT.
ORDINARY HAZARD DENSITY: 0.15 GPM/ SQ. FT.
HEAD SPACING: 130 SQ. FT. PER HEAD (MAX.)

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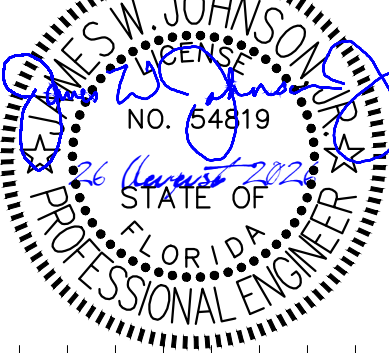
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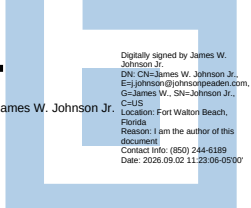
17 July 2026

EXISTING SERVICE BLDG:
LOWER LEVEL FIRE
PROTECTION FLOOR PLAN
FP1.10

Date: 17 JULY 2026
Drawn By: jdf / md
Project Number: 2519
Revisions:
FOR BUILDING PERMIT



**Step One Automotive Group
CDJR Renovation**

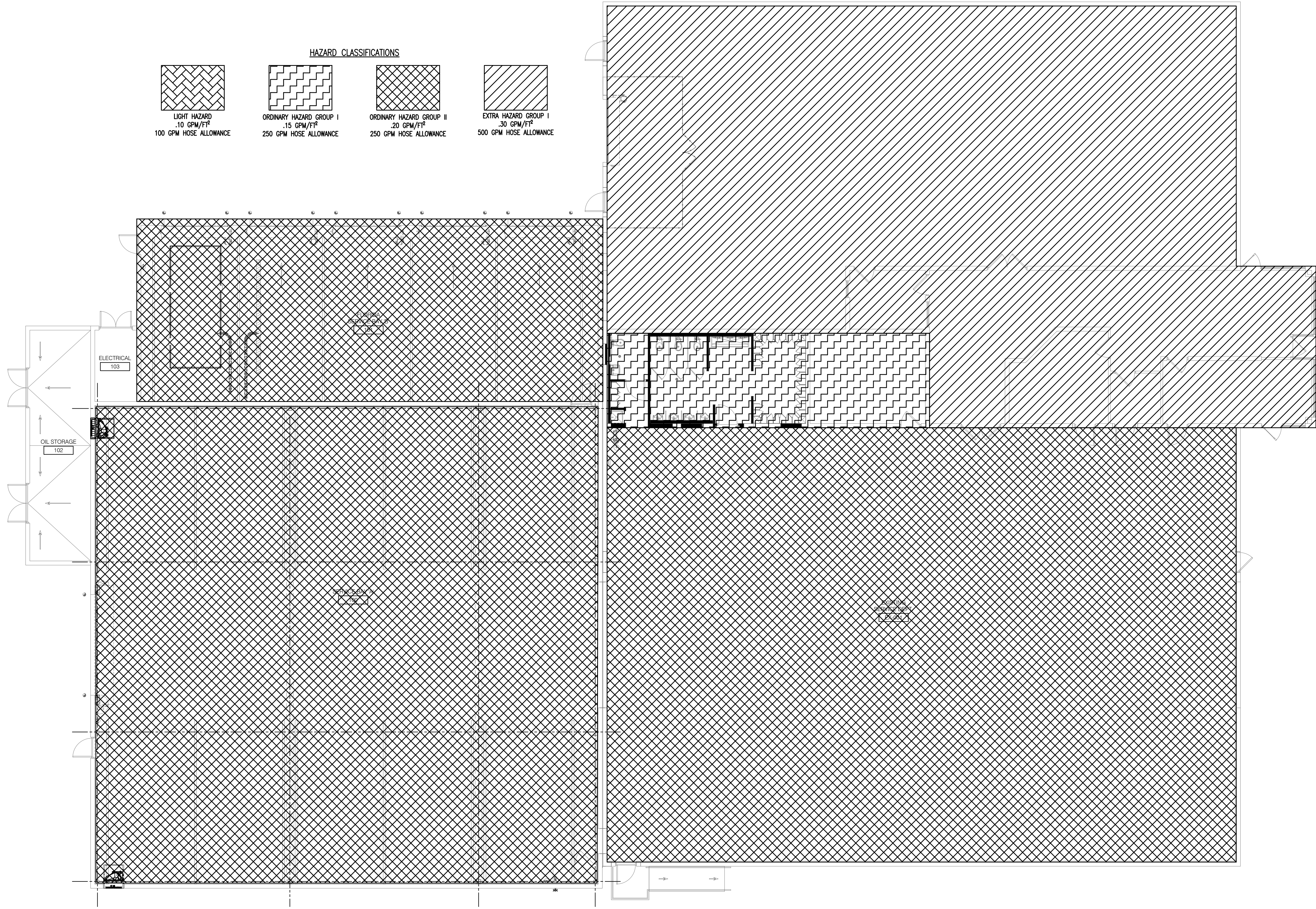


541 MARY ESTHER CUT-OFF NW
FOR WALTON BEACH, FLORIDA

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CDJR Renovation**

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1 EXISTING SERVICE BUILDING: UPPER LEVEL FIRE PROTECTION FLOOR PLAN

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

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JPE Job Number: 2612

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ORDINARY HAZARD GROUP I DESIGN APPROACH DATA

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HEAD SPACING: 130 SQ. FT. PER HEAD (MAX.)

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SYSTEM(S) TYPE: DRY PIPE
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HEAD SPACING: 130 SQ. FT. PER HEAD (MAX.)

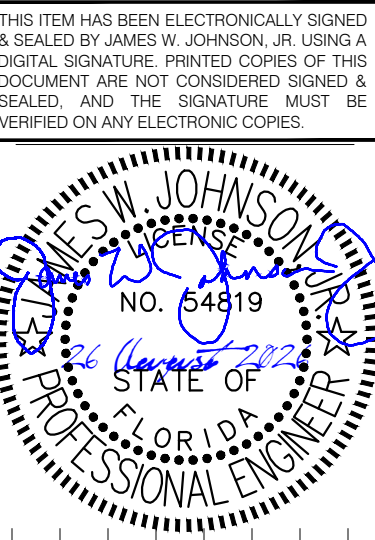
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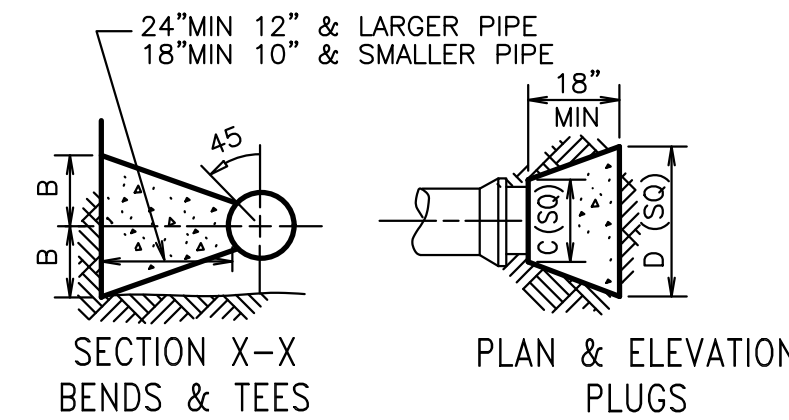
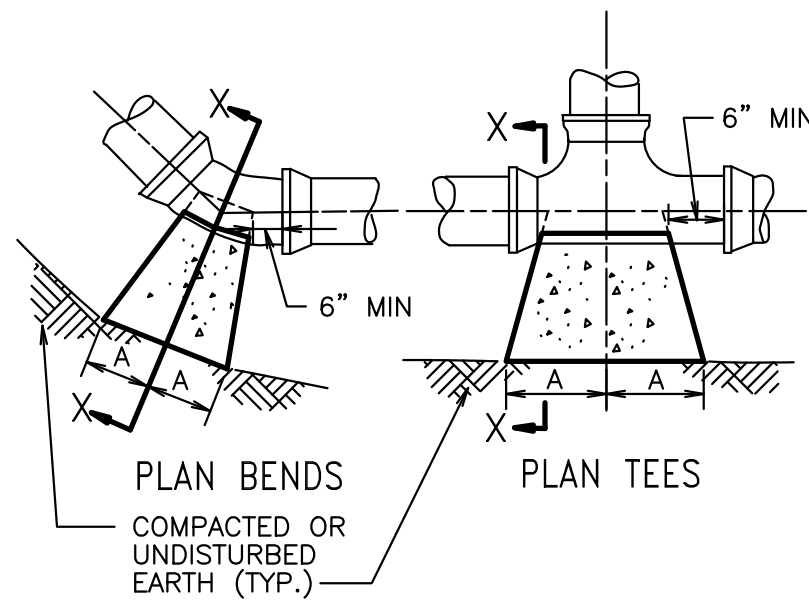
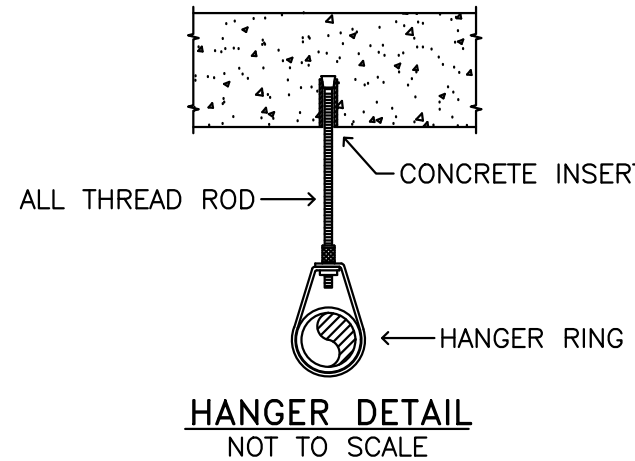
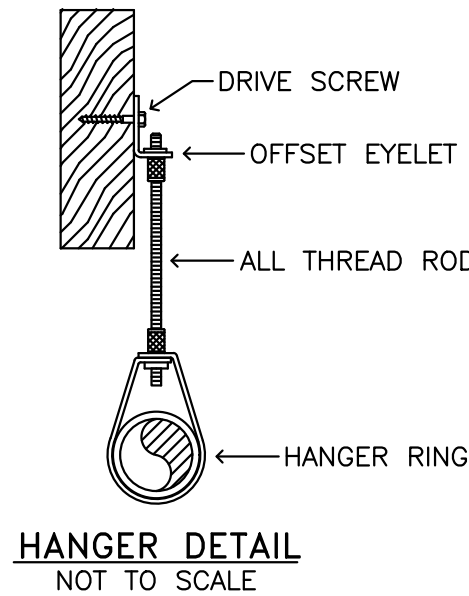
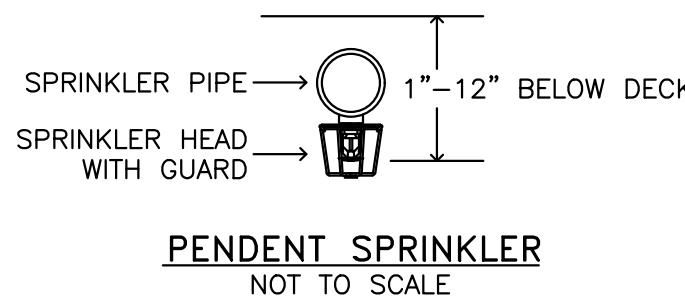
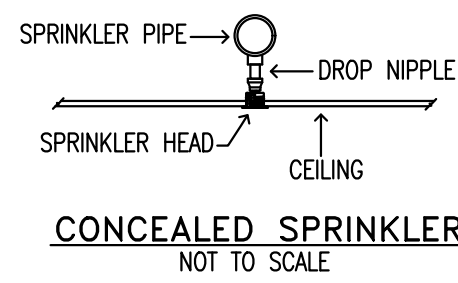
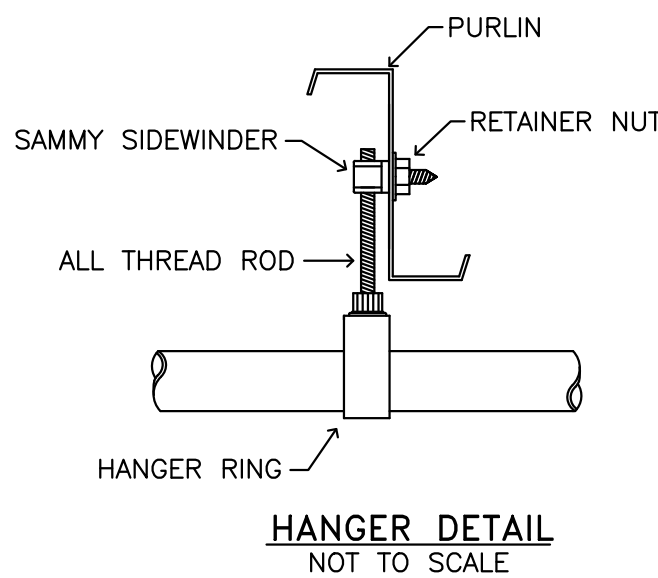
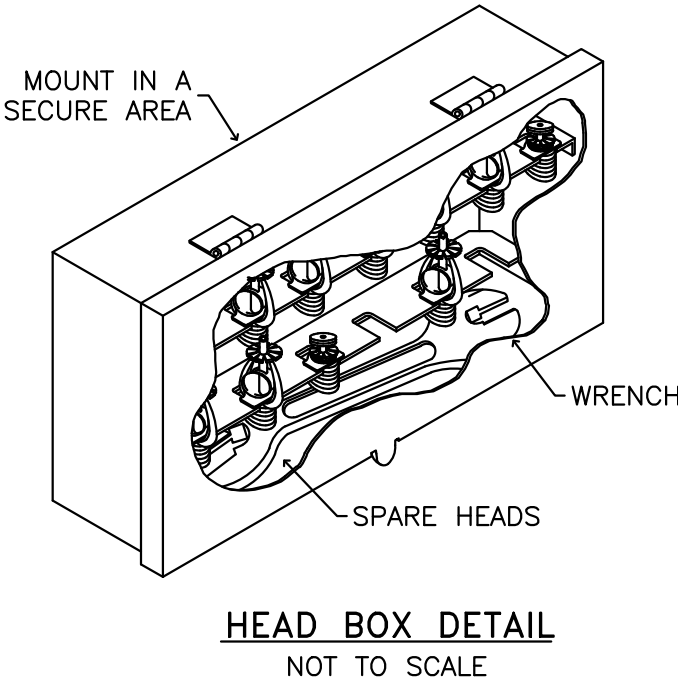
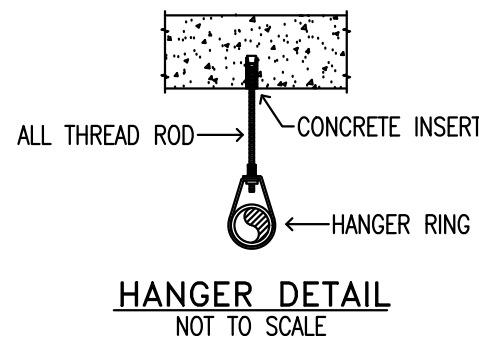
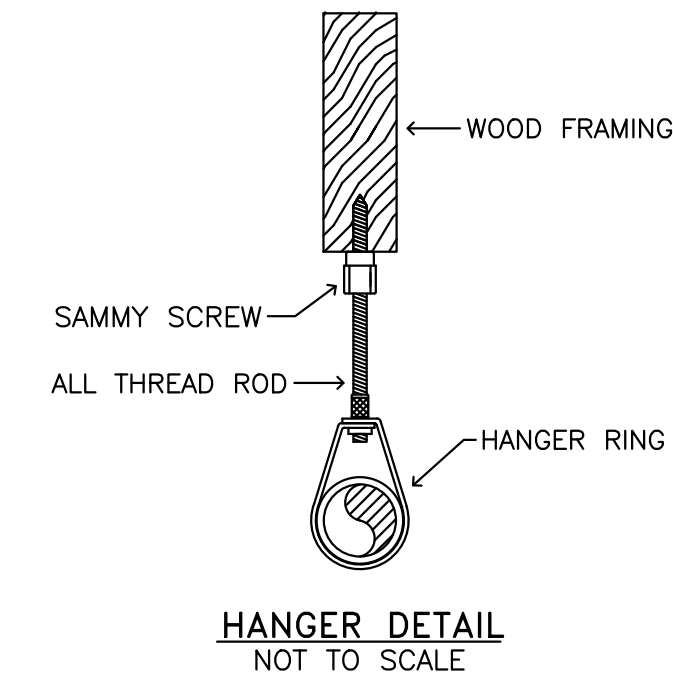
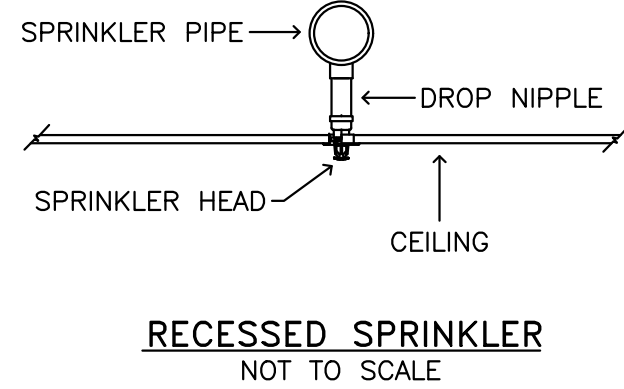
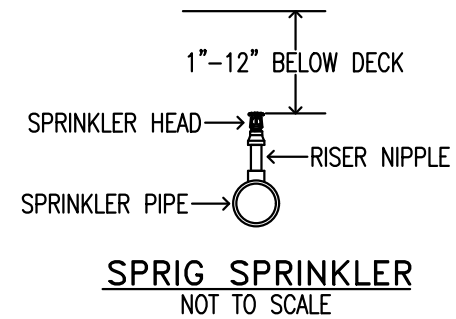
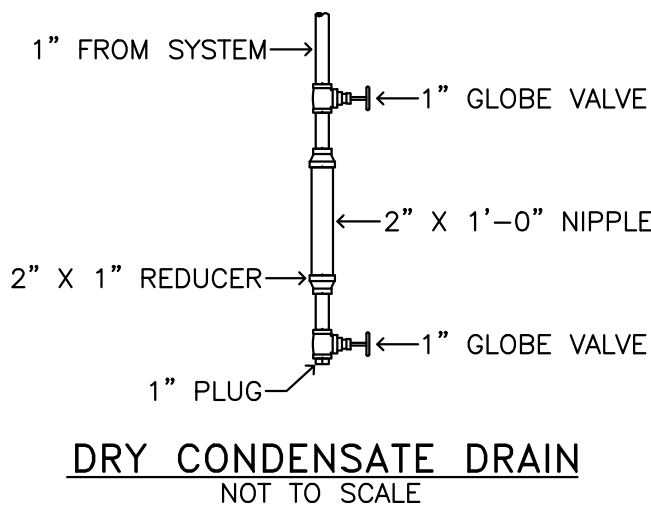
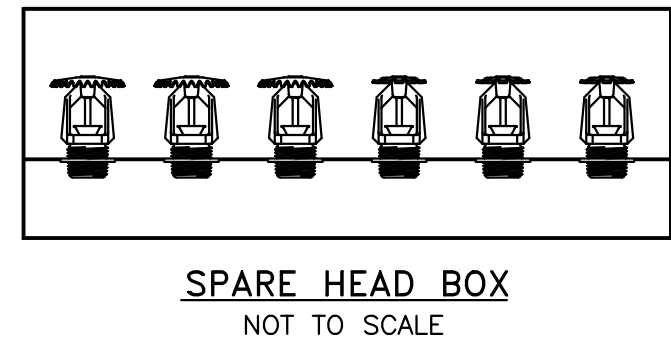
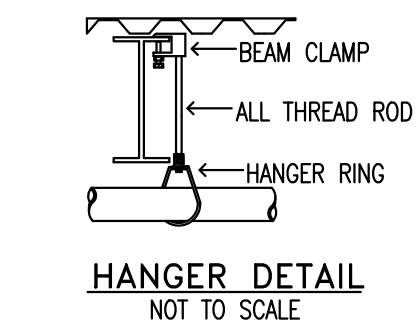
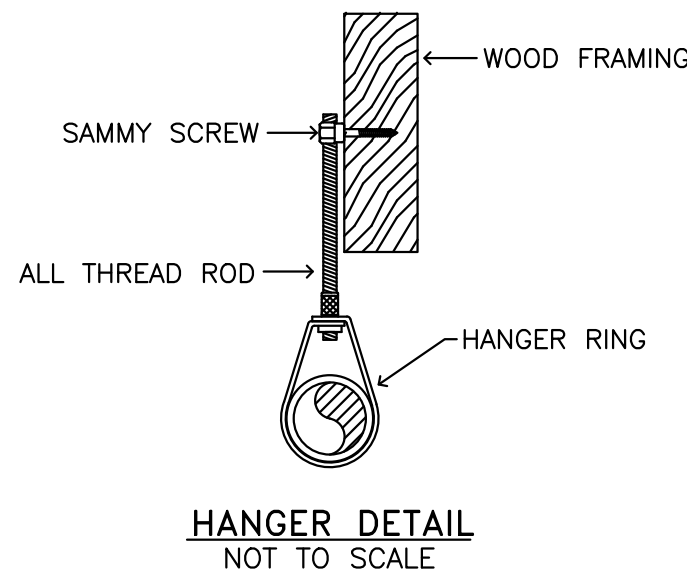
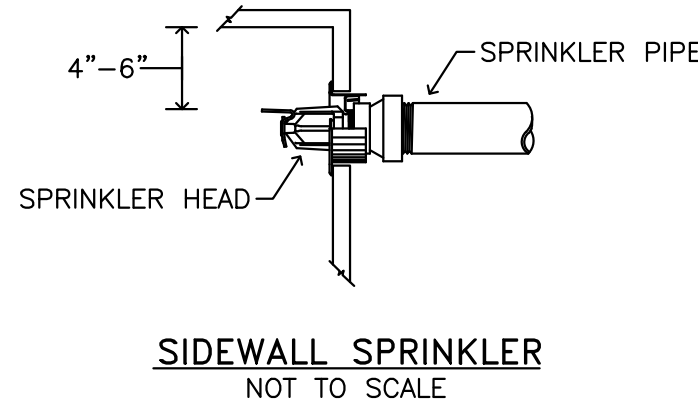
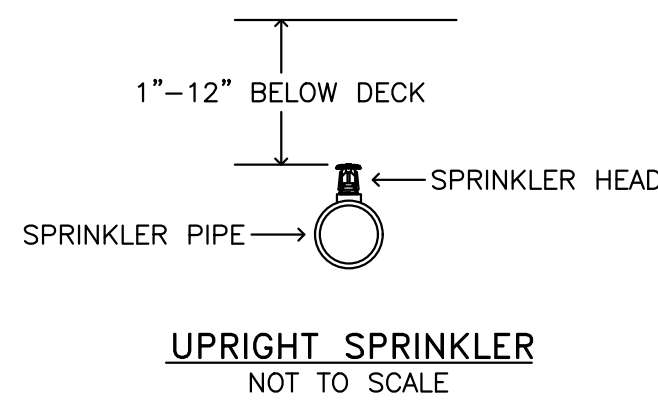
EXISTING SERVICE BLDG:
UPPER LEVEL FIRE
PROTECTION FLOOR PLAN

FP1.11

Step One Automotive Group
CDJR Renovation

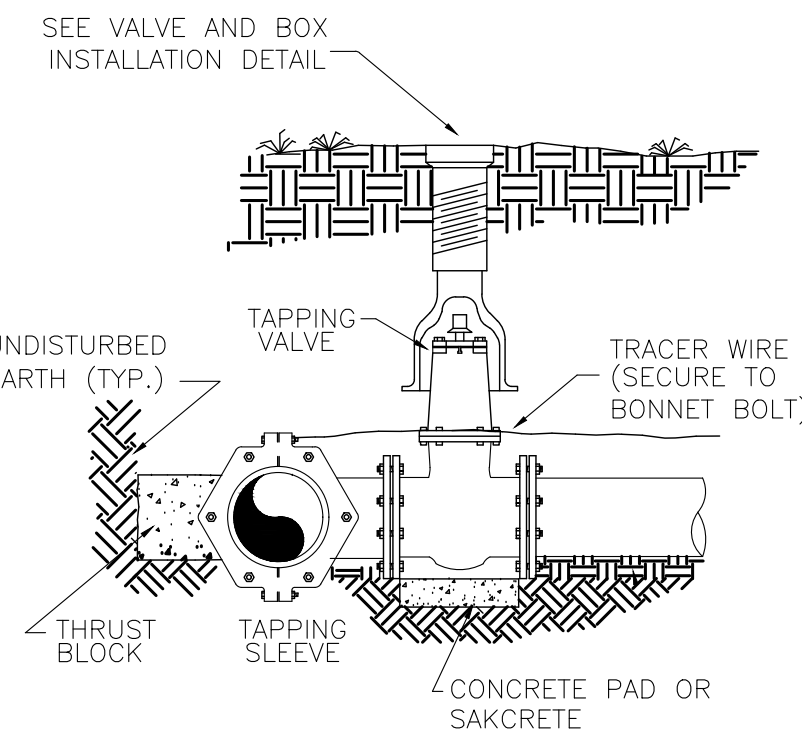
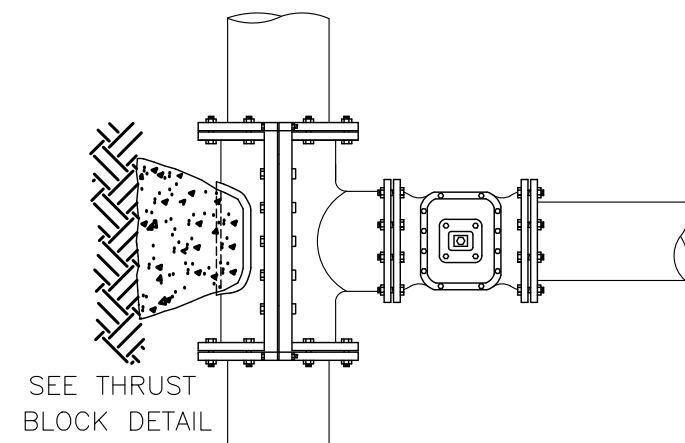
541 MARY ESTHER CUT-OFF NW
FOR WALTON BEACH, FLORIDA



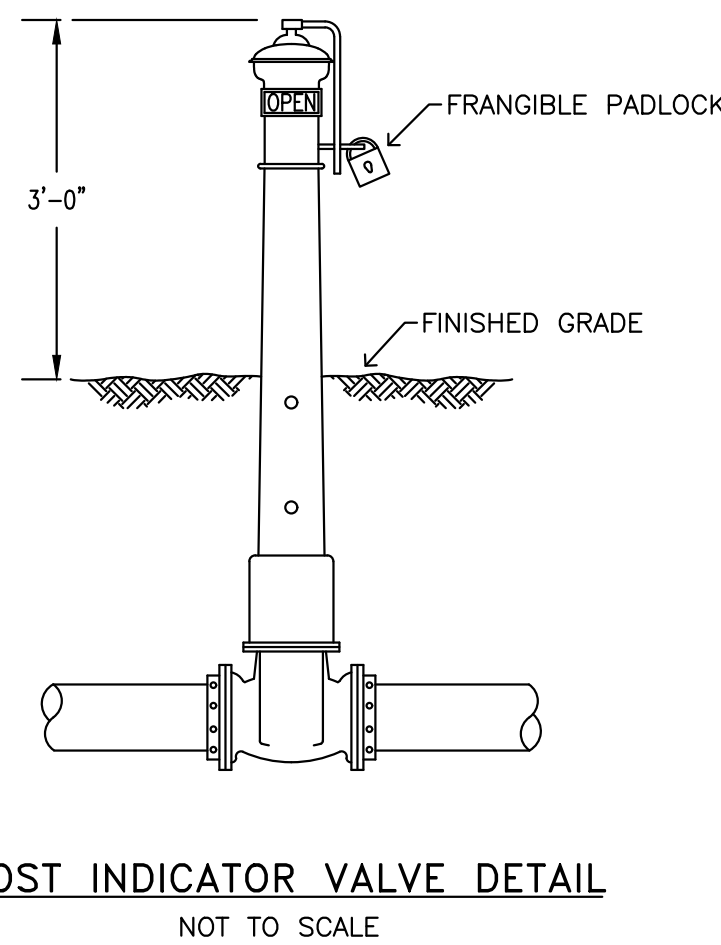
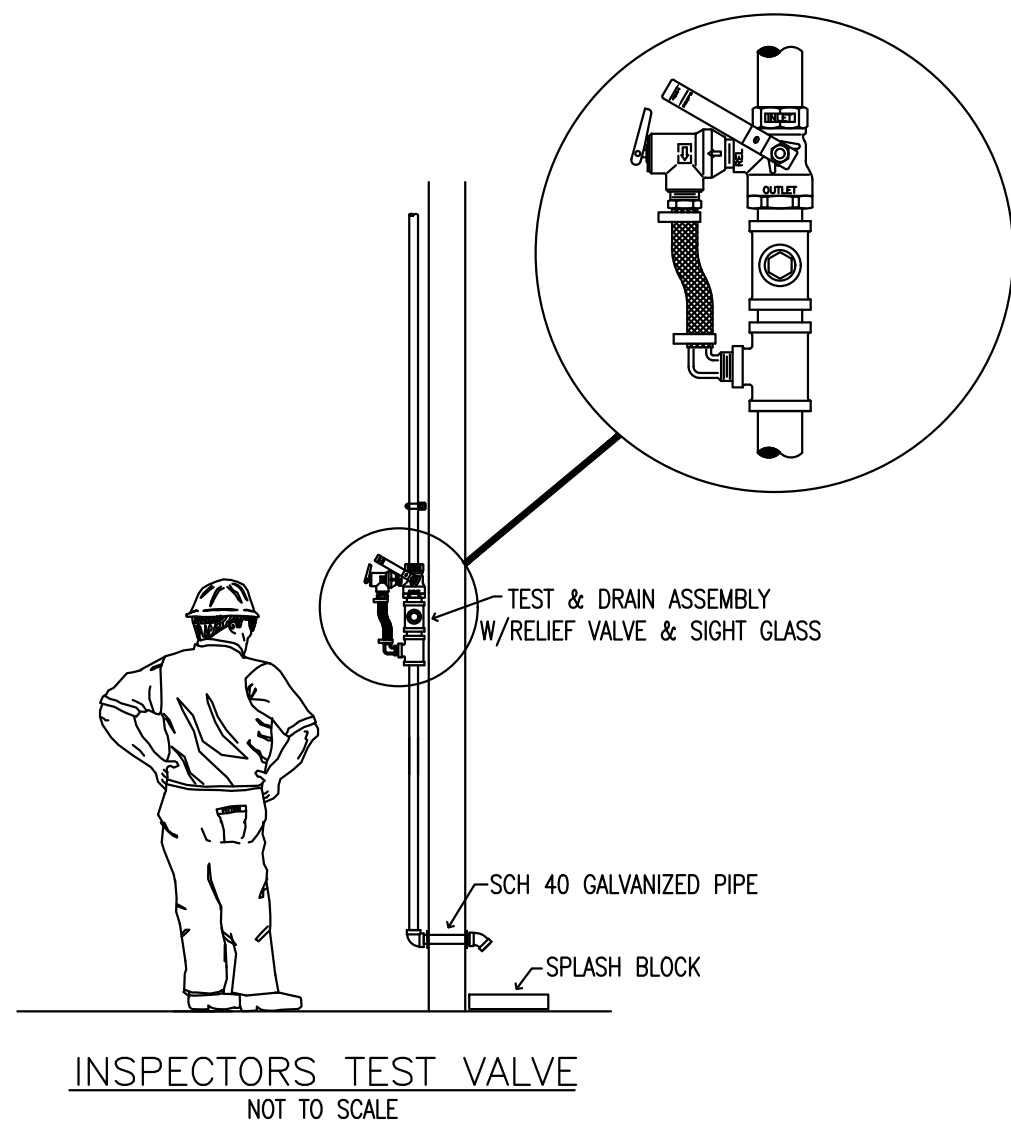


SIZE	1/4 BENDS			1/8 BENDS			1/16 BENDS			TEES			PLUGS		
	A	B		A	B		A	B		A	B	C	D		
6"	16"	10"		9"	10"		6"	8"	10"	12"	10"	21"			
8"	22"	13"		12"	13"		8"	10"	13"	16"	12"	29"			
10"	26"	17"		14"	17"		10"	13"	16"	20"	14"	36"			
12"	29"	21"		16"	21"		11"	16"	18"	24"	16"	41"			
14"	35"	24"		19"	24"		12"	20"	22"	27"	18"	48"			
16"	38"	27"		21"	27"		12"	24"	24"	30"	20"	54"			

THRUST BLOCK DETAILS
N.T.S.



TAPPING SLEEVE & VALVE DETAIL
N.T.S.



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JPE Job Number: 2612

FIRE PROTECTION DETAILS

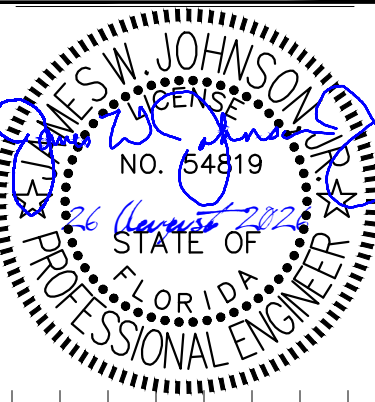
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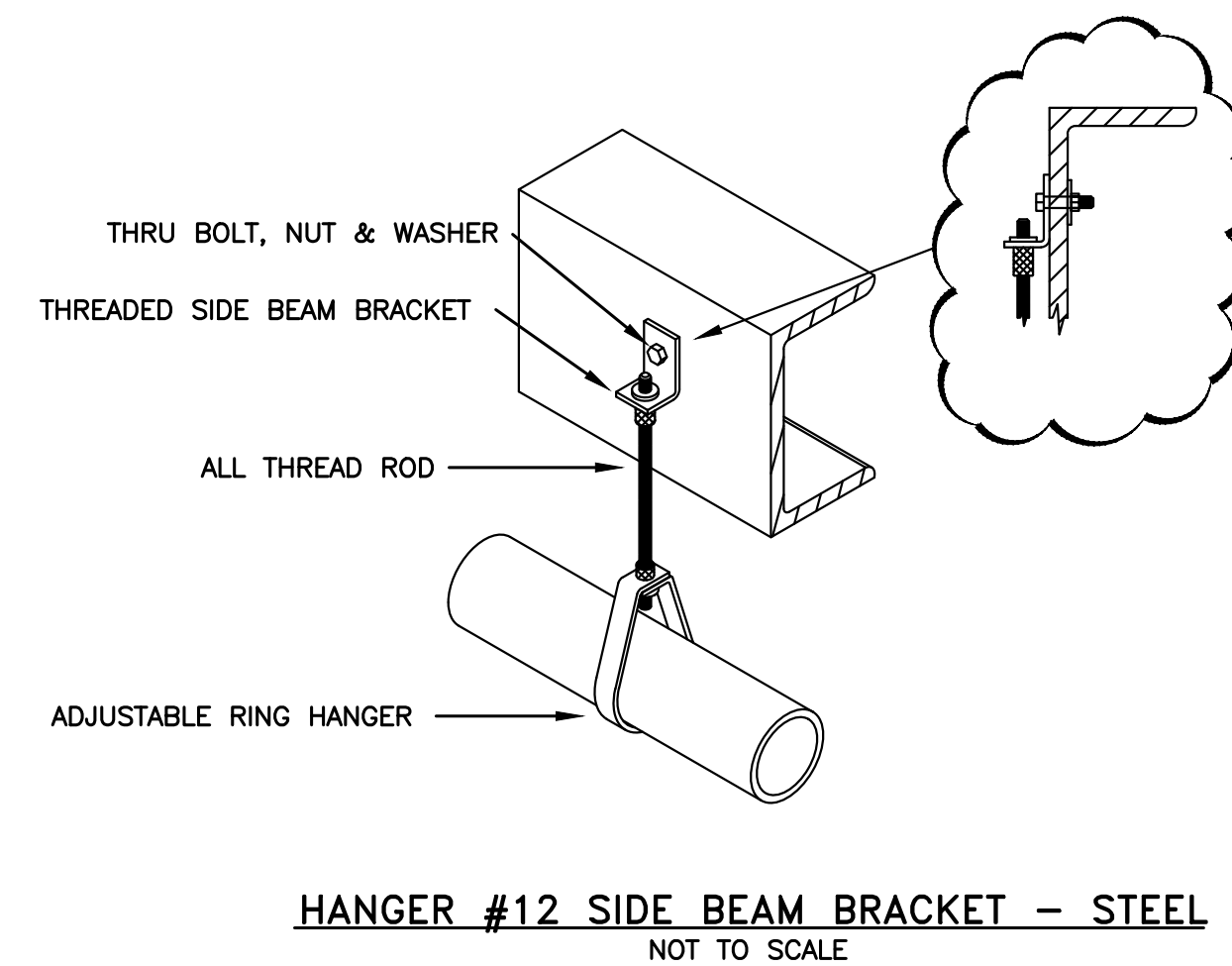
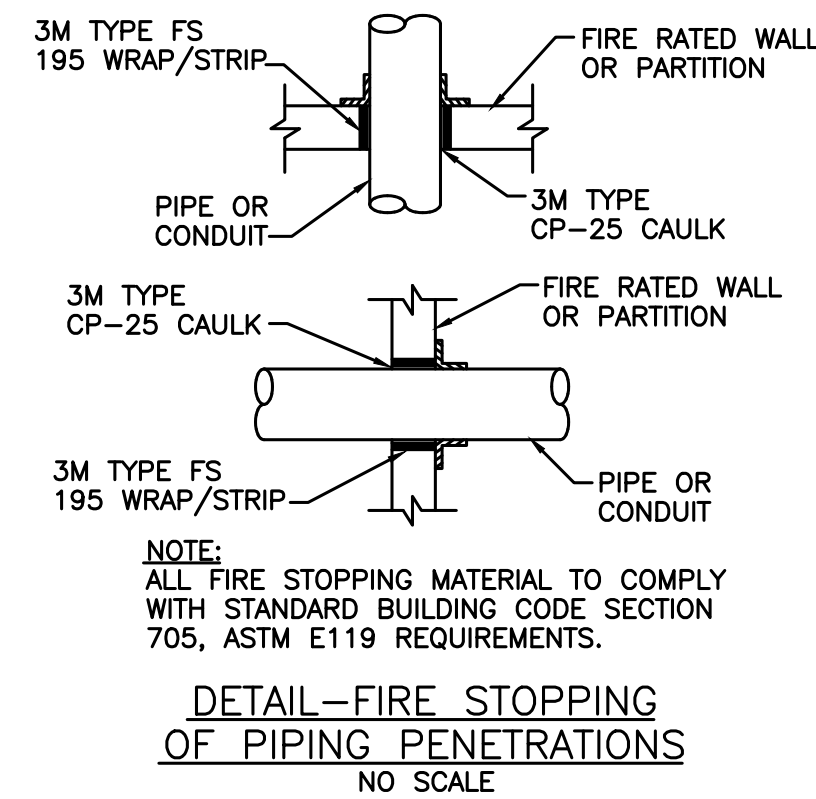
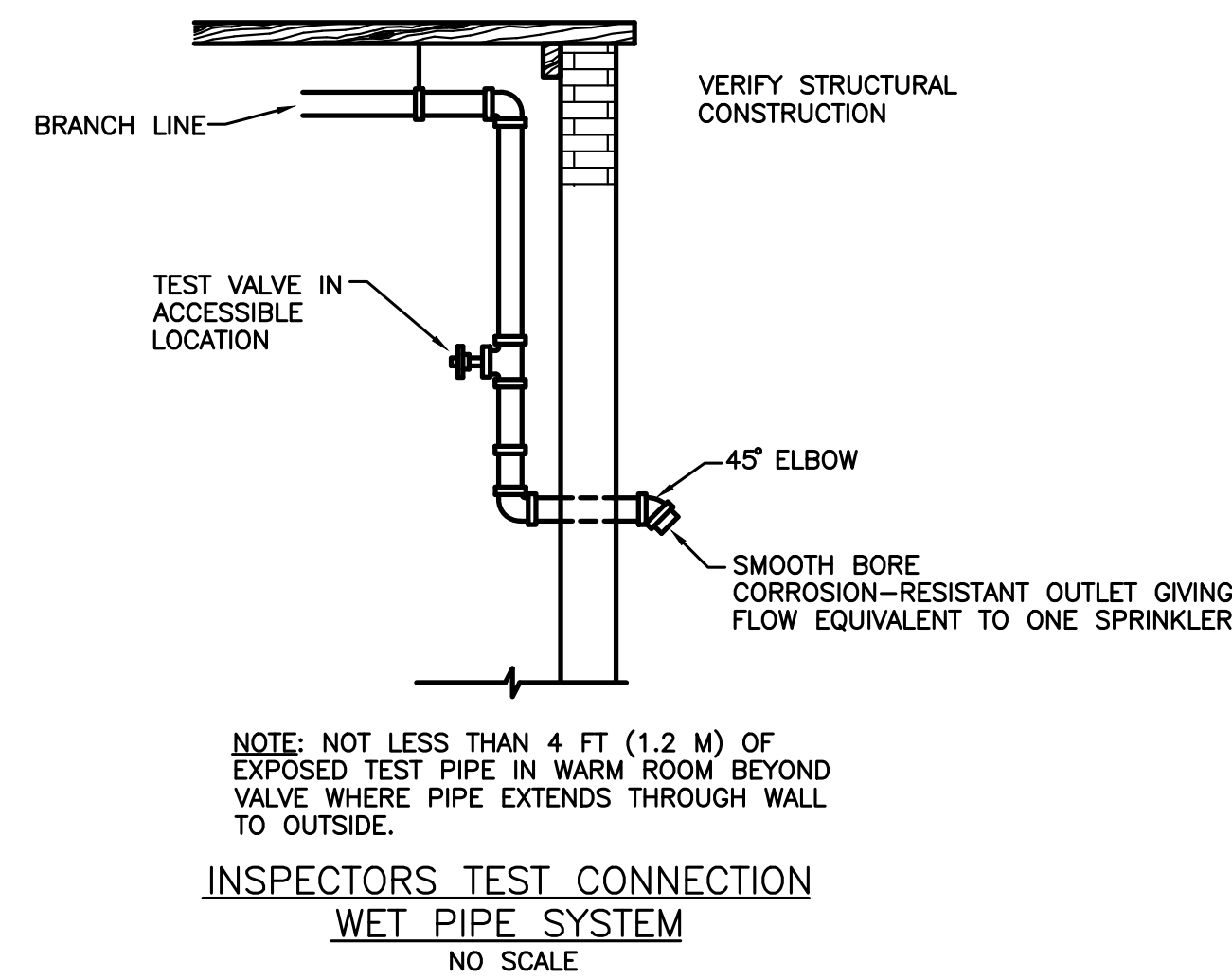
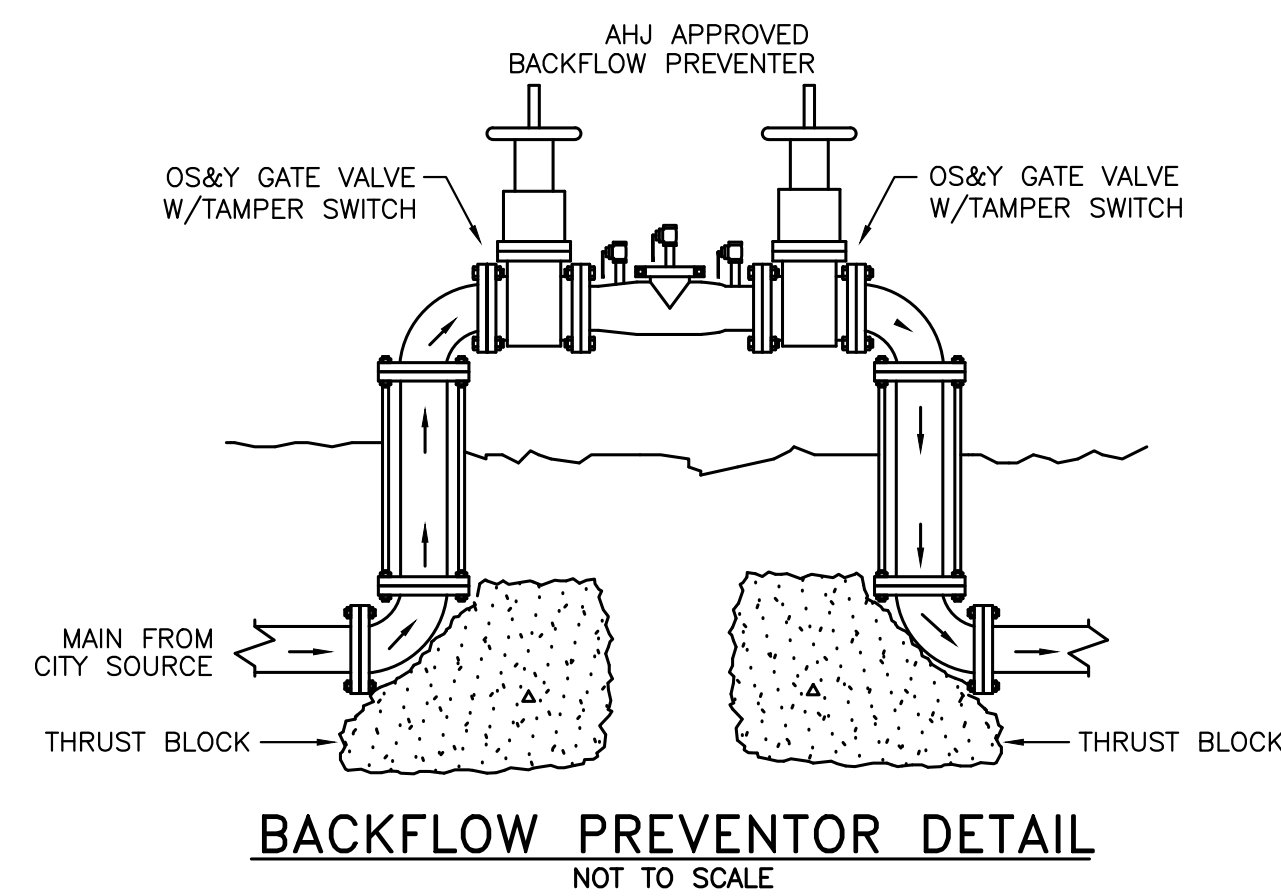
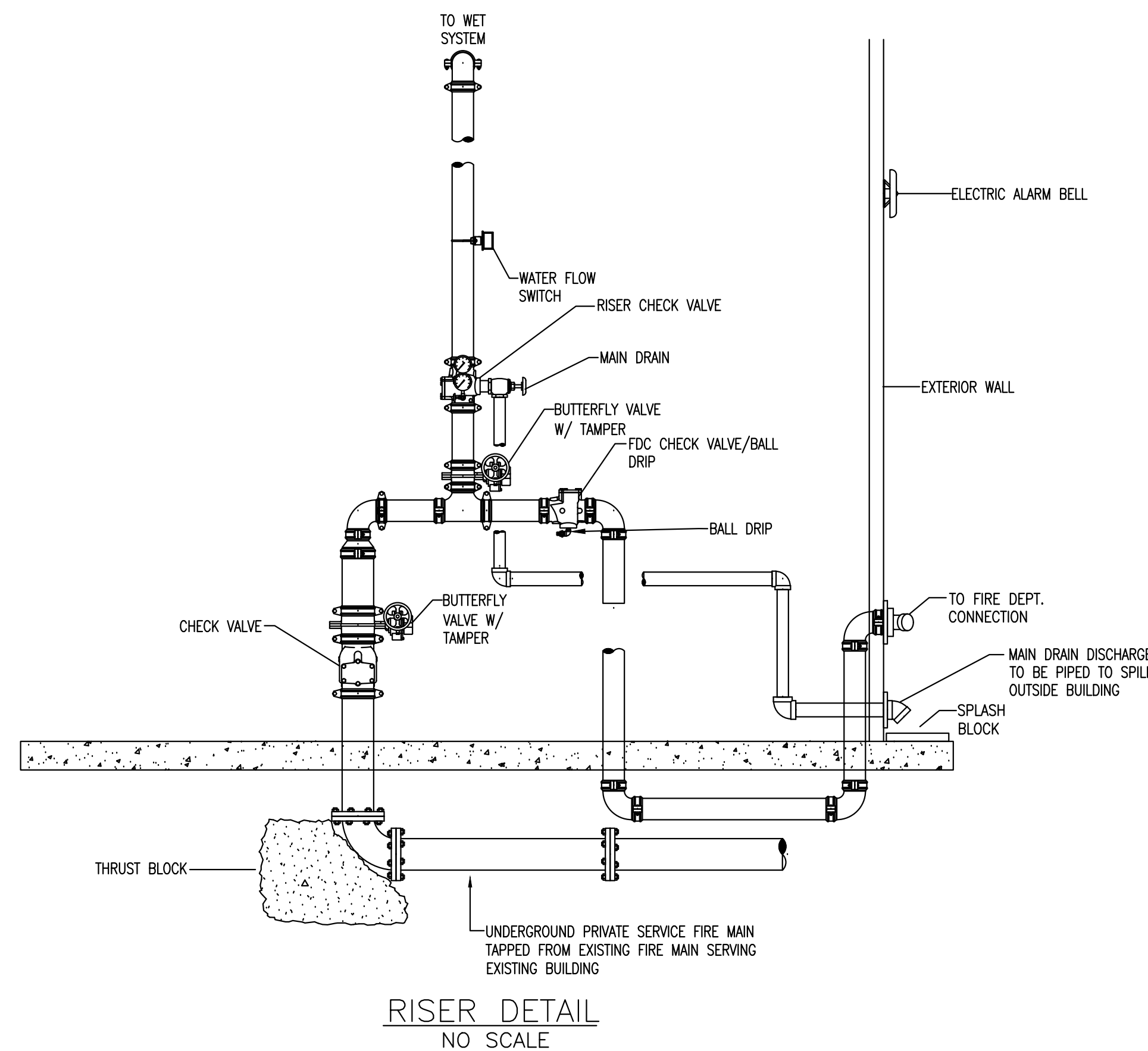
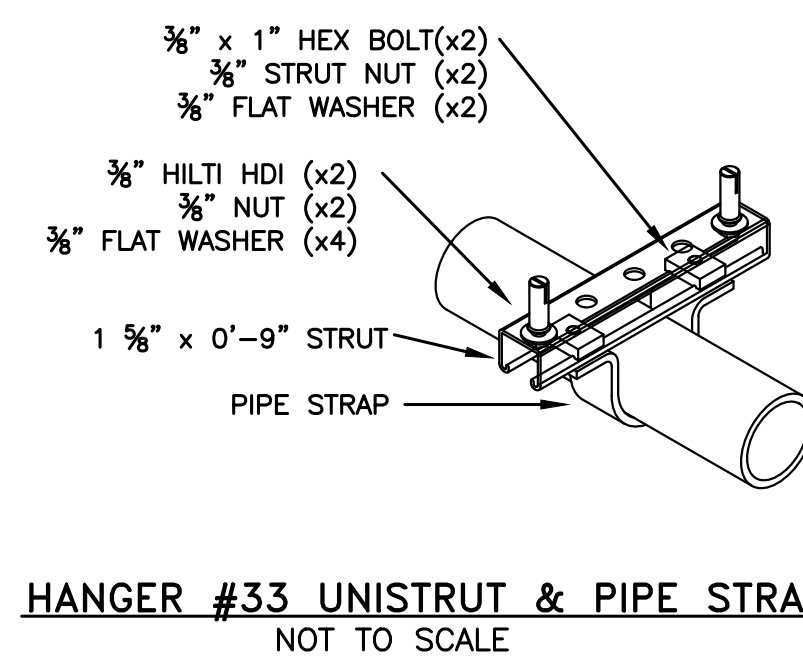
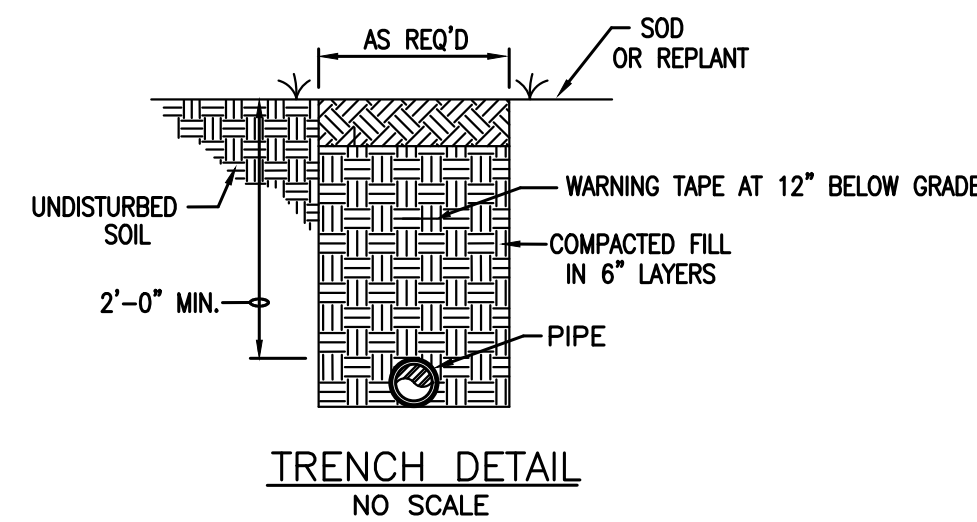


Date:	17 JULY 2026	Drawn By:	jdf / mnd	Project Number:	2519	Revisions:		FOR BUILDING PERMIT
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17 July 2026

FIRE PROTECTION DETAILS

FP5.11

Step One Automotive Group CDJR Renovation

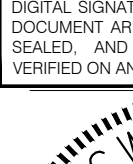
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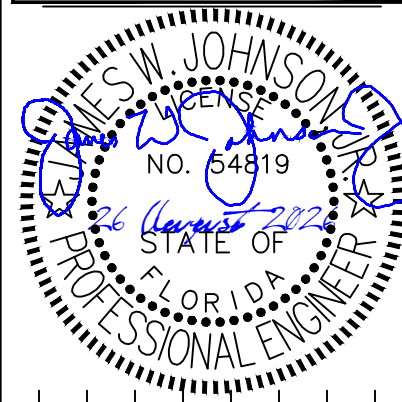
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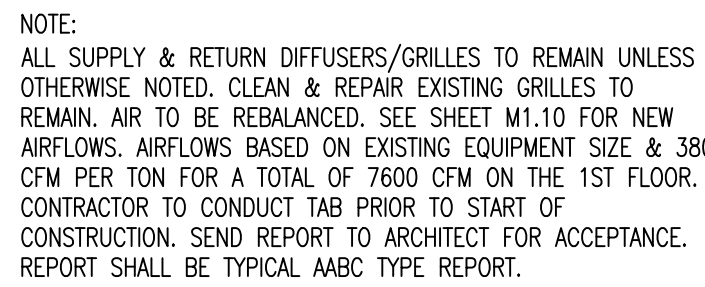
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MD1.10

17 July 2026



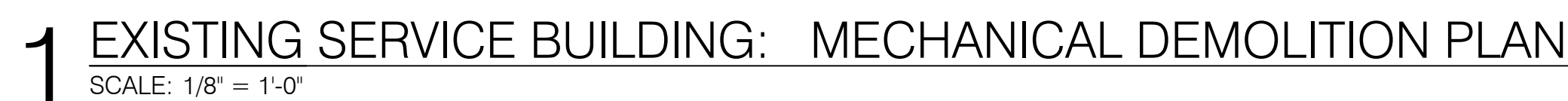
SCALE: 3/16" = 1'-0"



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	Alabama RD-2429-E Arkansas #1654 Florida #00000194 Georgia #FF003983 Louisiana #FE006882	Mississippi #FE-0000086 Missouri #201803358 North Carolina #7058 Texas #E-16637

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JPE Job Number: 2612



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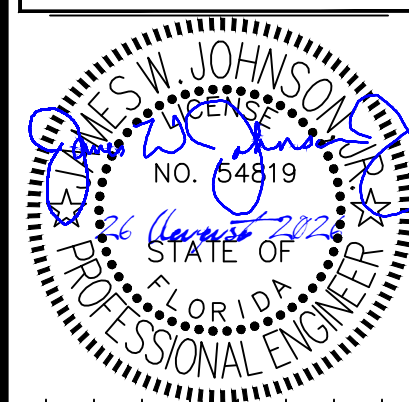
EXISTING SERVICE
BUILDING: MECHANICAL
DEMOLITION PLAN

MD1.11

Step One Automotive Group CDJR Renovation

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FOR WALTON BEACH, FLORIDA

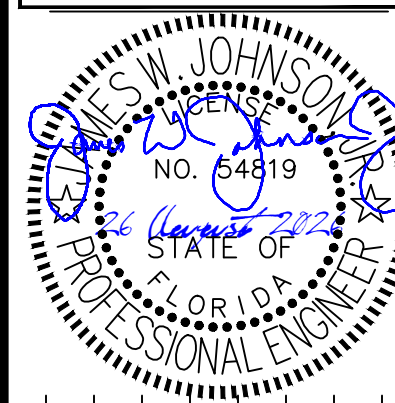
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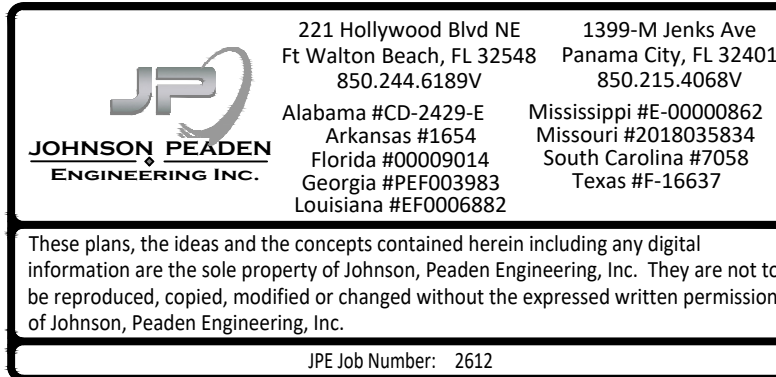
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Project Number:	2519
Revisions	

M1.12



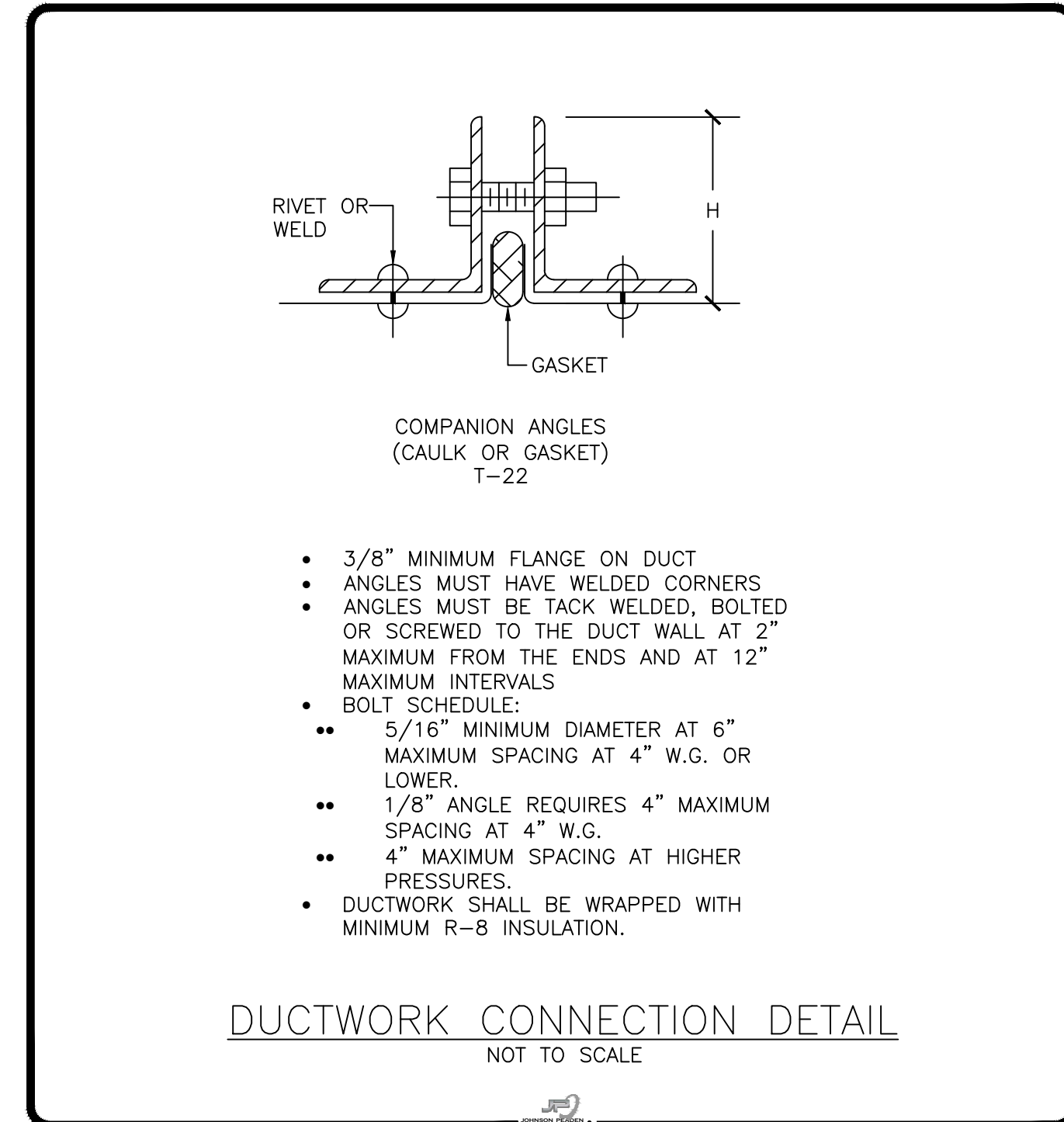
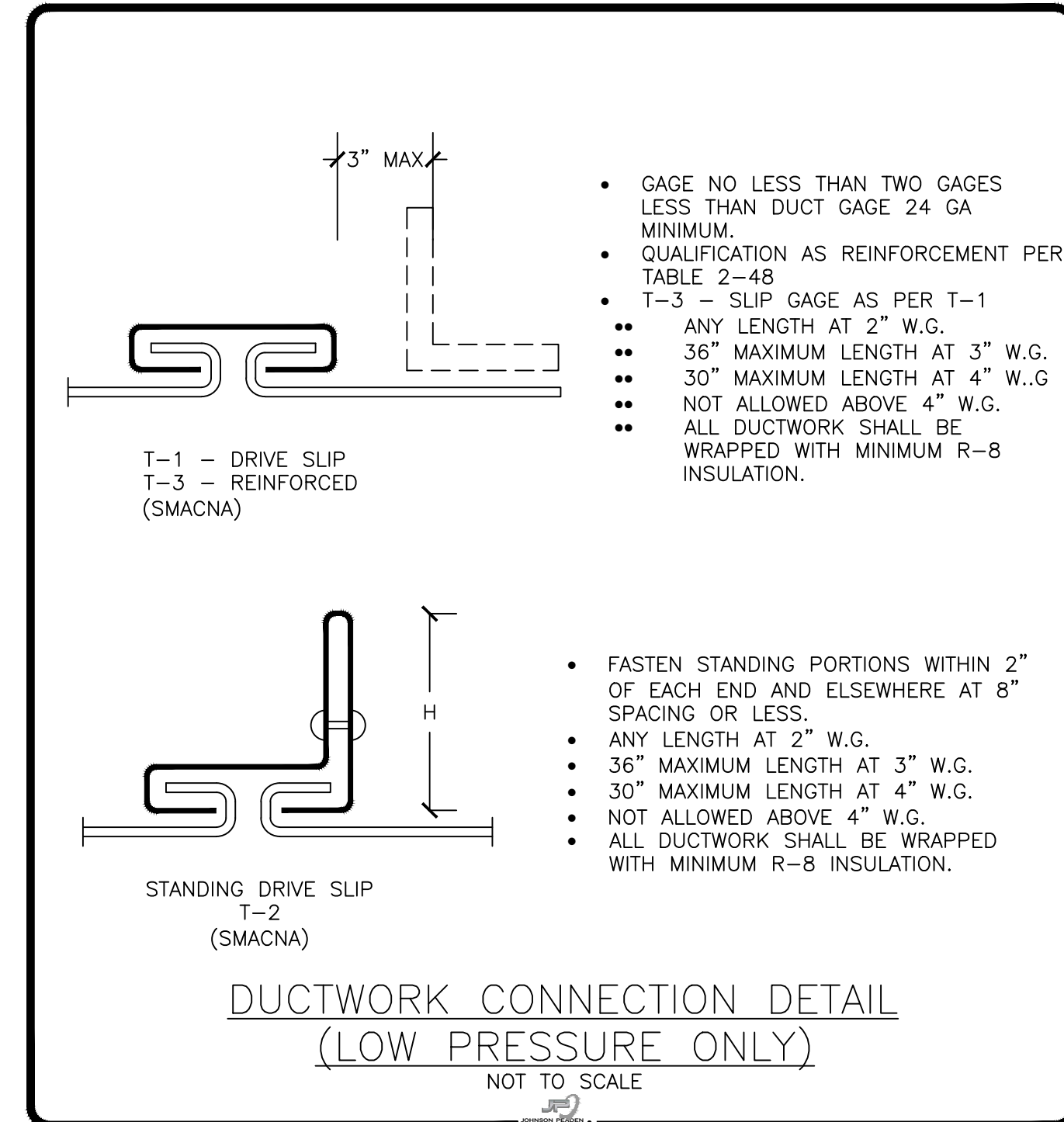
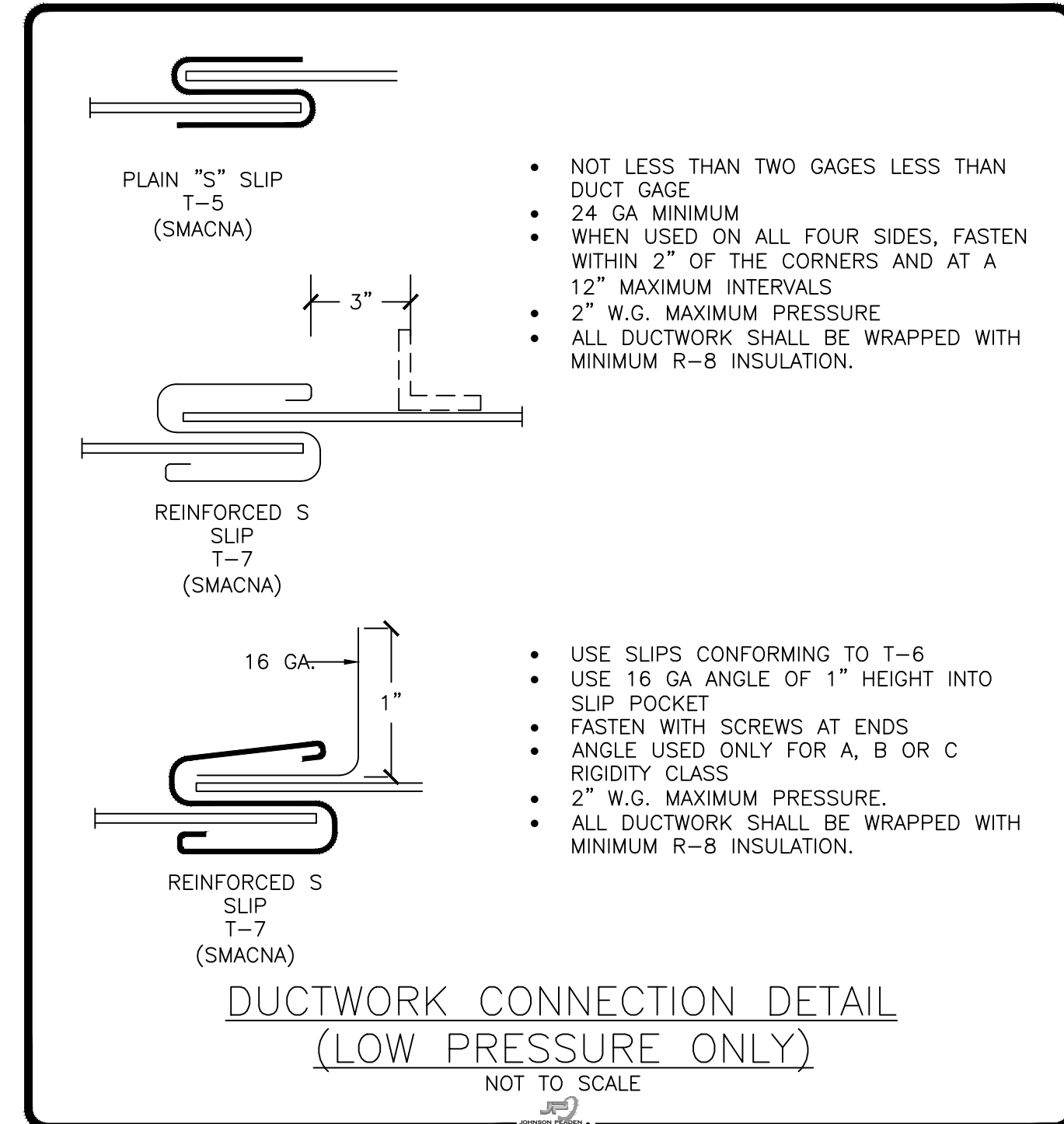
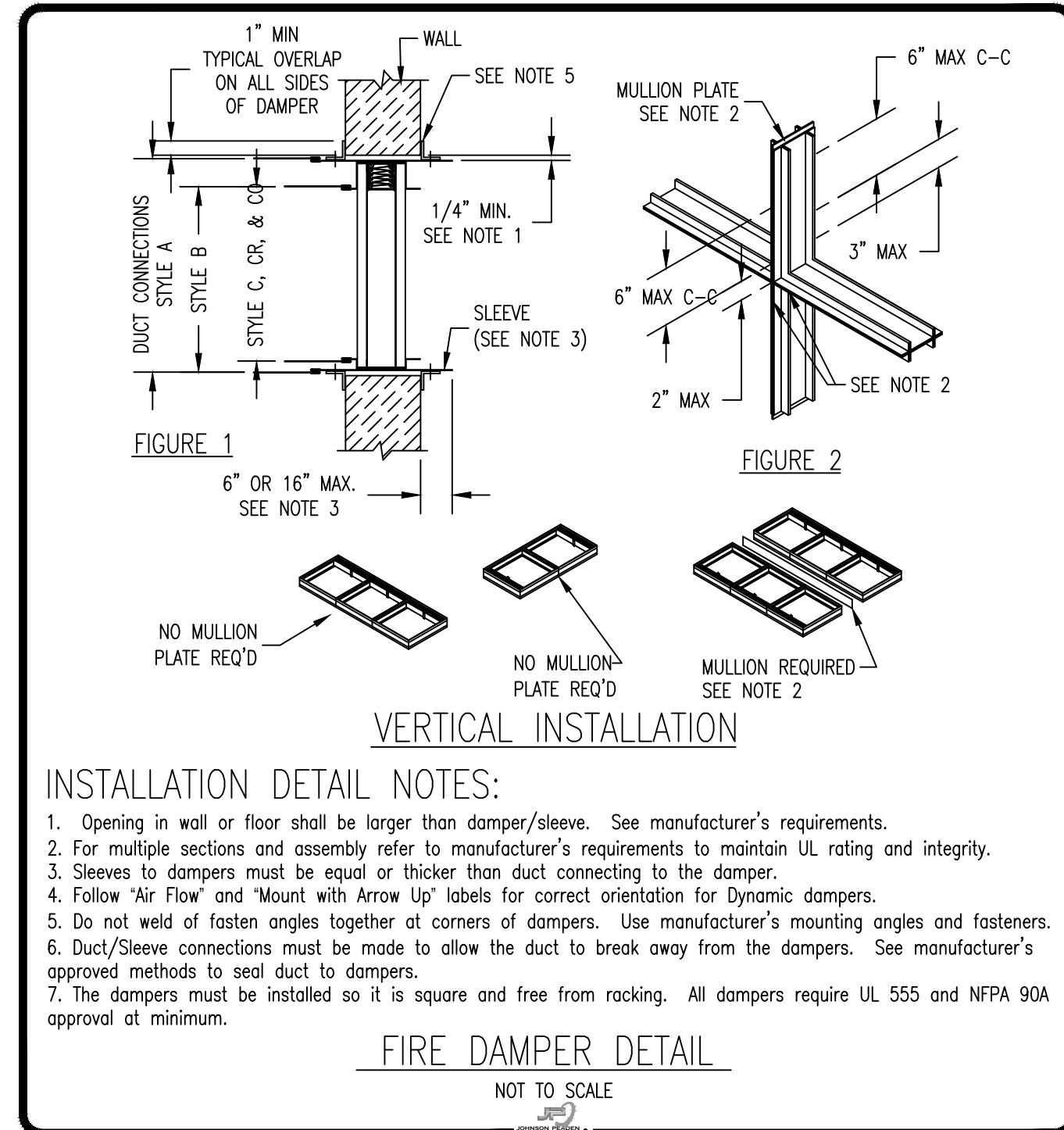
1 EXISTING SERVICE BUILDING: MECHANICAL ROOF PLAN

17 July 2026



17 July 2026

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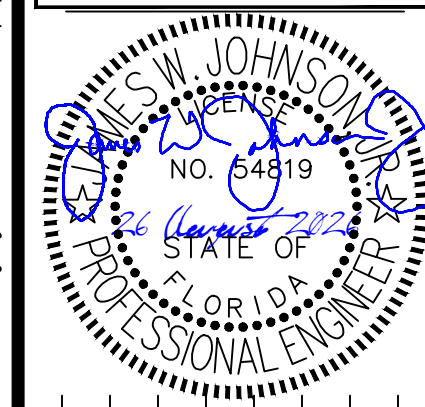
MECHANICAL DETAILS

Step One Automotive Group CDJR Renovation

M5.11

541 MARY ESTHER CUT-OFF NW
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ROOFTOP UNIT SCHEDULE																									
UNIT NO.	AIR CFM	OUTSIDE AIR CFM	APPROX. ESP*W.G.	FAN H.P.	COOLING ENT AIR TEMP	COOLING LVG AIR TEMP	OUTDOOR CLG AMBIENT AIR TEMP	TOTAL COOLING (MBH)	SENSIBLE COOLING (MBH)	LATENT COOLING (MBH)	MOD HGR (MBH)	MHGR EAT	MHGR LAT DB/DP	EER	IEER	COP	HEAT PUMP HTG. EAT/LAT	OUTDOOR HTG AMBIENT AIR TEMP	HEAT PUMP TOTAL HEATING (MBH)	ELEC HEAT/ (208V)	MCA	MOCP	V/ø/Hz	WEIGHT (LBS)	VALENT MODEL NUMBER
RTU-1	1990	1490	1.0	0.92	86.6°FDB/74.5°FWB	54.1°FDB/54.0°FWB	91.0°FDB/81.5°FWB	133.1	67.0	66.1	62.8	54.1°F/54.0°F	83.9°F/65.0°F	11.9	18.4	3.40	42.7°F/88.1°F	34.1°FDB/28.1°FWB	93.8	24.6 kW	145.7	150	208/3/60	2622	VX-112-10A-1-G2
RTU-2	3110	1730	1.0	1.8	83.7°FDB/71.7°FWB	52.6°FDB/52.5°FWB	91.0°FDB/81.5°FWB	186.5	100.9	85.6	98.5	52.6°F/52.5°F	82.3°F/63.3°F	10.6	18.3	3.31	49.7°F/88.6°F	34.1°FDB/28.1°FWB	126.3	28.7 kW	183.1	200	208/3/60	2675	VX-112-15A-1-G2
REMARKS 1. UNIT SHALL BE WIRED FOR SINGLE POINT CONNECTION, CONDENSER COIL SHALL HAVE HAIL GUARD COVER, CONDENSER COMPLETE COAT, PROGRAMMABLE DIGITAL THERMOSTAT, ANTI-SHORT CYCLE TIMER, LOW AMBIENT CONTROLS, COIL GUARD KIT. 2. FOR UNITS ABOVE 2,000 CFM; PROVIDE MODULATING HOT GAS REHEAT, SMOKE DETECTOR IN SUPPLY, UPON ACTIVATION SMOKE DETECTOR SHALL SHUT DOWN UNIT AND SOUND AUDIO AND VISUAL ALARM IF FIRE ALARM IS NOT PRESENT. 3. WHEN MULTIPLE STAGES OF ELECTRIC HEAT ARE AVAILABLE, ALWAYS PROVIDE MULTIPLE STAGES. PROVIDE UNPOWERED 20A CONVENIENCE OUTLET. 4. PROVIDE REMOTE TEMPERATURE SENSOR FOR RTU-1, AND PLACE THERMOSTAT AS SHOWN.																									

AIR HANDLER SCHEDULE														
UNIT NO.	AIR CFM	APPROX. S.P.*W.G.	FAN B.H.P.	COOLING ENT AIR TEMP	COOLING LVG TEMP	OUTSIDE AIR CFM	OUTDOOR TEMP--COOLING	ELEC HEAT (208/3)	MCA	MOCP	VOLT/PHASE	TRANE MODEL NUMBER	WEIGHT (LBS)	REMARKS
AHU-3	3000	1.0	2.04	76.2°FDB/63.9°FWB	53.9°FDB/53.1°FWB	400	95°FDB/78°FWB	24.92 kW	78.0	80.0	208/3	TWE090K3BA**BC4	373.0	1,2,3,4
REMARKS														
1. PROVIDE DRAIN PAN WITH FLOAT SWITCH UNDER AIR HANDLING UNIT.														
2. HEATER SHALL BE EQUIPPED WITH MINIMUM 2-STAGE HEATING ELEMENTS.														
3. UNIT SHALL HAVE DUAL CIRCUIT EVAPORATOR COIL FOR STAGING.														
4. UNIT SHALL BE PROVIDED WITH DEHUMIDIFICATION CYCLE AND TWO SPEED FAN.														

HEAT PUMP SCHEDULE															
UNIT NO.	TOTAL COOLING (MBH)	SENSIBLE COOLING (MBH)	LATENT COOLING (MBH)	EER	OUTDOOR TEMP-COOLING	TOTAL HEATING (MBH)	IEER	COP	OUTDOOR TEMP-HEATING	MCA	MOCP	VOLT/PHASE	WEIGHT (LBS)	TRANE MODEL NUMBER	REMARKS
HP-3	98.43	76.83	21.80	11.2	95°FDB/78°FWB	60.23	14.8	3.4	33.5°FDB/25.5°FWB	35	45	208-230/3	445	TWA090K3DAA**BS	1,2,3,4
REMARKS															
1. UNIT SHALL BE EQUIPPED WITH A DIGITAL TOUCH SCREEN THERMOSTAT.															
2. UNIT SHALL BE EQUIPPED WITH AN ADJUSTABLE OUTDOOR AIR THERMOSTAT.															
3. UNIT SHALL BE EQUIPPED WITH ANTI-SHORT-CYCLE TIMER AND TXV VALVE.															
4. UNIT SHALL HAVE LOW AMBIENT COOLING CAPACITY AND EVAPORATOR DEFROST CONTROL. UNIT SHALL BE TWO STAGE COOLING AND TWO STAGE HEATING.															

MITSUBISHI VRF INDOOR UNIT SCHEDULE		
Tag Reference		AHU-05
Nominal Data	Room Name	109 SERVICE WRITER
	Model	PLA-AE24NL
	Type	Ceiling-Cassette (Four-Way)
	Nominal Cooling Capacity (BTU/h)	24,500
	Nominal Heating Capacity (BTU/h)	31,600
Design Conditions	Cooling Design Entering Temp DB/WB (°F)	76.0/64.1
	Heating Design Entering Temp DB/WB (°F)	67.3
	Refrig Pipe Dim Liquid/Suction (inch)	3/8 / 5/8
	Cooling Total Capacity (BTU/h)	22,771.7
Performance Data	Cooling Sensible Capacity (BTU/h)	19,055.6
	Heating Capacity (BTU/h)	28,352.0
	Estimated Cooling Coil LAT (°F)	53.9
	Estimated Heating Coil LAT (°F)	99.6
Fan Flow Data	Fan Speed Setting	HIGH
	Peak Fan Airflow (cfm)	810
	Sound Pressure Per Fan Speed 208V/230V (dBA)	28 - 30 - 33 - 36
Electrical Data	Voltage / Phase	208/230V/1-phase
	Electrical MCA/MFS	1/15
	Condensate Removal Rate (gal/hr)	0.54
Notes / Options	Applicable System Notes - See Notes Below	1, 2, 3, 4
Notes & Options:		
1. Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB)		
2. Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB)		
3. See outdoor unit schedule for outdoor ambient conditions, connected capacity, and other factors associated with corrected capacities		
4. See schematic piping/control diagram for indication of required indoor unit remote controllers, system controllers, and integration devices.		

MITSUBISHI VRF OUTDOOR UNIT SCHEDULE		
System Tag		HP-5
	Model Number	PUZ-AH24NL
	Nominal Cooling Capacity (BTU/h)	24,000
	Nominal Heating Capacity (BTU/h)	29,000
	EER2 [SEER2]	12 [22.6]
	Heating COP @ 47°F [HSPF]	4.3 [9.8]
	Nom System Connected Capacity (% of NOM)	100.0 %
Design Conditions	Design Cooling Outdoor Temp DB (°F)	95.0
	Design Heating Outdoor Temp WB (°F)	43.0
	Refrig Pipe Dim High/Low Pressure (inch) (See Note 4)	3/8 / 5/8
Performance Data	Corrected Cooling Total Capacity (BTU/h)	22,771.7
	Corrected Heating Capacity (BTU/h)	28,352.0
	Sound Pressure (dBA)	49/52
	Preliminary Added Field Charge (See Note 5)	0.0
Electrical Data	Voltage / Phase	208/230V / 1-phase
	MCA 208/230 or [460V]	22
	Recommended Fuse Size (RFS)	25
	MOCP	37
Notes / Options	Applicable System Notes - See Notes Below 1, 2, 3, 4, 5, 6, 7, 8, 9	

Notes & Options:

- Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB)
- Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB)
- Efficiency values for EER, IEER, COP are based on AHRI 1230 test method for mixture of ducted & non-ducted indoor units.
- For systems with multiple modules, refrigerant pipe dimensions indicate total system combined piping downstream of module twinning.
- Added field charge listed is in addition to factory charge, this must be updated based upon final as-built piping layout.

GENERAL MECHANICAL NOTES	
1. FURNISH ALL LABOR, EQUIPMENT, AND MATERIALS TO PROVIDE A COMPLETE MECHANICAL SYSTEM. DUE TO THE SCHEMATIC NATURE OF THESE PLANS, THE CONTRACTOR SHALL FIELD-VERIFY LOCATIONS FOR EQUIPMENT DUCTWORK, AND ACCESSORIES. IN ADDITION, THIS WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICTS. THE CONTRACTOR SHALL ALSO REVIEW THE STRUCTURAL DRAWINGS BEFORE FABRICATING AND INSTALLING DUCTWORK OR EQUIPMENT. 2. ALL WORK SHALL BE PERFORMED BY SKILLED AND EXPERIENCED WORKMEN. WORK SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODES. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED PERMITS, LICENSES, AND INSPECTIONS. 3. ALL MATERIALS SHALL BE NEW AND WITHOUT DEFECTS. SUBMIT SHOP DRAWINGS FOR ALL MATERIALS AND EQUIPMENT. ALL WORK DONE BY THIS CONTRACTOR SHALL BE WARRANTED FOR ONE YEAR FROM THE TIME THE OWNER GIVES ACCEPTANCE OR GAINS BENEFICIAL USE, WHICHEVER IS FIRST. ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. 4. DUCT SIZES ON DRAWINGS ARE INSIDE CLEAR DIMENSIONS. DUCT SHALL BE OF LOW-PRESSURE (2.0" w.g.) CONSTRUCTION AS CLASSIFIED BY SMACNA UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL USE MINIMUM 2" EXTERNAL WRAP (MINIMUM R-6.0). LINER MAY ONLY BE USED WHERE REQUIRED FOR SOUND ATTENUATION. DUCTBOARD SHALL NOT BE USED. 5. FLEXIBLE DUCT MAY BE INSTALLED ONLY WHERE SHOWN ON THE DRAWINGS. DUCT SHALL BE EXTERNALLY-INSULATED CORRUGATED METAL WITH A MAXIMUM LENGTH OF 6'-0". FOR TAKE-OFFS LONGER THAN 6'-0", THE REMAINDER OF THE DISTANCE SHALL BE EXTERNALLY-WRAPPED SINGLE-WALL ROUND DUCT WITH A SPIN-IN STYLE TAP AT THE MAIN DUCT. 6. HANGERS FOR EQUIPMENT AND PIPING SHALL BE SECURED TO THE BUILDING STRUCTURE. NO HANGERS SHALL BE ATTACHED TO THE FLOOR OR ROOF DECK MATERIAL, OR CONCRETE DECKS LESS THAN 4" THICK. ALL RETURN AND EXHAUST GRILLES SHALL HAVE OPPOSED-BLADE DAMPERS. ALL SUPPLY-SIDE TAKE-OFFS SHALL HAVE A BALANCING DAMPER. 7. FIRE DAMPERS AND FIRE-STOPPING SHALL BE PROVIDED FOR ANY PENETRATIONS OF FIRE-RATED PARTITIONS. VERIFY LOCATIONS OF ALL FIRE-STOPPING ON THE ARCHITECTURAL DRAWINGS. 8. ALL GRILLES AND REGISTERS SHALL BE EQUAL TO TITUS WITH ALUMINUM CONSTRUCTION. SUPPLY GRILLES SHALL BE EQUAL TO MODEL TDC. SUPPLY REGISTERS SHALL BE EQUAL TO MODEL 301. RETURN, EXHAUST AND TRANSFER GRILLES SHALL BE EQUAL TO MODEL 355 WITH OPPOSED-BLADE DAMPERS. GRILLE FINISH SHALL BE APPROVED BY THE OWNER AND THE ARCHITECT. 9. EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE ABLE TO PROVIDE THE REQUIRED CAPACITIES IN THE MIDDLE OF IT'S PERFORMANCE RANGE. ALL COMPRESSORS SHALL HAVE A MINIMUM 5-YEAR WARRANTY UNLESS OTHERWISE NOTED. THE EQUIPMENT SHALL HAVE AL THE NECESSARY CONTROLS AND ACCESSORIES TO ALLOW FOR FULL OPERATION. IF EQUIPMENT HAS COMPONENTS OF A VIBRATIVE NATURE, THE CONTRACTOR SHALL PROVIDE THE NECESSARY VIBRATION CONTROLS. 10. RETROFIT PIPING SHALL BE HARD-DRAWN TYPE K OR L COPPER WITH COPPER SOLDER FITTINGS. PIPING SHALL BE SOLDERED WITH SILVER SOLDER AND INSULATED WITH 1/2" THICK THERMAL TUBULAR JACKETING. SEAL INSULATION JOINTS WITH TAPE AND CEMENT OR PER MANUFACTURER'S INSTRUCTIONS. PRE-INSULATED AND PRE-CHARGED REFRIGERANT LINES MAY BE USED AS PROVIDED BY THE EQUIPMENT MANUFACTURER. WHERE INSULATION IS EXPOSED TO WEATHER PROTECT LINES WITH AN ALUMINUM COVER AND PAINT TO MATCH EXTERIOR FINISH. 11. CONDENSATE DRAINS SHALL BE FULL-SIZE (1" MINIMUM) COPPER OR SCHEDULE 40 PVC. DRAINS SHALL BE INSULATED IN THE SAME MANNER AS REFRIGERANT LINES. DISCHARGE AS SHOWN ON THE DRAWINGS. 12. CONTROLS SHALL BE EQUAL TO MANUFACTURER'S CONTROLS. OUTDOOR UNITS SHALL HAVE FACTORY-WIRED TIME DELAYS, PRESSURE SWITCHES, LOW-AMBIENT CONTROLS AND DEFROST CONTROLS. THERMOSTATS SHALL BE DIGITAL AND PROGRAMMABLE WITH BATTERY BACK-UP. SETPOINTS SHALL FOLLOW DESIGN CONDITIONS OR BE AS DIRECTED BY THE OWNER. MOUNT ALL THERMOSTATS AND TEMPERATURE SENSORS 60" A.F.F. 13. THE HVAC SYSTEM SHALL BE TESTED AND BALANCED ACCORDING TO AABC STANDARDS. THE CONTRACTOR SHALL PROVIDE THE ARCHITECT WITH A COPY OF THE TEST AND BALANCE REPORT AND THE OWNER WITH A LETTER STATING THAT THE SYSTEM(S) HAVE BEEN BALANCED TO WITHIN 10% OF DESIGN PARAMETERS.	

UNIT HEATER SCHEDULE													
MARK	AIR FLOW	FAN MOTOR	HEATER WATTS	TOTAL HEATING CAPACITY	TEMP RISE	VOLTAGE	PHASE	FREQUENCY	EQUIPMENT WEIGHT	COUNT	THROW 10' MOUNT	MANUFACTURER	MODEL
UH-1	967 CFM	1/20 HP	16.1 kW	55,000 BTU/H	50°F	115 V	1	60 HZ	85 LB	2	33"	REZNOR	UEZ-55
NOTE: 1. UNIT SHALL BE PROVIDED WITH 24V RELAY KIT FOR REMOTE THERMOSTAT OPERATION. UNITS SHALL BE DISABLED WHEN OUTDOOR TEMPERATURES EXCEED 65°F.													

Ceiling Exhaust Fan Schedule																			
MARK INFORMATION			FAN INFORMATION							SOUND INFORMATION			MOTOR INFORMATION						
MARK	QTY	MODEL	DRIVE TYPE	VOLUME (CFM)	EXTERNAL SP (IN. WG)	TOTAL EXTERNAL SP (IN. WG)	FAN SPEED (RPM)	OUTLET VELOCITY (FT/MIN)	TOTAL WEIGHT (LB)	INLET dBA	INLET SONES	INLET SONES (SPHERICAL)	OPERATING POWER (HP)	MOTOR SIZE (HP)	ENCLOSURE	VOLTAGE	CYCLE	PHASE	EC MOTOR
EF-6	1	SP-A510	Direct	350	0.375	0.375	1,009	795.45	33	43.2	4.27	3.35	0.1	0.0667	OP	115	60	1	No
SELECTED OPTIONS AND ACCESSORIES																			
UL/cUL 507 Listed - Electric Fan Solid State Speed Control, 6 Amp, Shipped Loose Isolation Kit, (PN: VI KIT-SP/CSP), Shipped Loose Adjustable easy installation mounting bracket Aluminum Grille with White Enamel Finish Aluminum Wheel Material																			

Sidewall Belt Drive Fan Schedule																						
MARK INFORMATION			FAN INFORMATION							SOUND INFORMATION			MOTOR INFORMATION									
MARK	QTY	MODEL	DRIVE TYPE	VOLUME (CFM)	EXTERNAL SP (IN. WG)	TOTAL EXTERNAL SP (IN. WG)	FAN SPEED (RPM)	OUTLET VELOCITY (FT/MIN)	FEI	TOTAL WEIGHT (LB)	INLET dBA	INLET SONES	OPERATING POWER (HP)	MOTOR SIZE (HP)	FEP INPUT POWER (KW)	ENCLOSURE	VOLTAGE	CYCLE	PHASE	EC MOTOR	NEC FLA*	
EF-7	2	BAER-30	Belt	9,400	0.125	0.334	1,012	1,852.95	0.86	356.2	74.16	23.52	1.7	1.5	1.51	OP	115	60	1	No	20	
*NEC FLA - Based on table 430.250 or 430.248 of National Electrical Code 2020. Actual motor FLA may vary for sizing thermal overload, consult factory"																						
SELECTED OPTIONS AND ACCESSORIES																						
UL/cUL 705 Listed - "Power Ventilators"							Mounting Style - Flush							Fan to Run During Occupied Hours								
Airflow Direction: Exhaust							Switch, NEMA-1, 3 Pole, Toggle,															
Damper Mounted, VCD-20-PB-32X32, Not Coated							Unit Material: Galvanized, Impeller Material: Steel															
Long Wall Hsg, Flush Exterior, w/OSHA Grd., Factory Installed							Bearings with Grease Fittings															
Motor Access: From Int. of Bldg.							One Point Wiring															

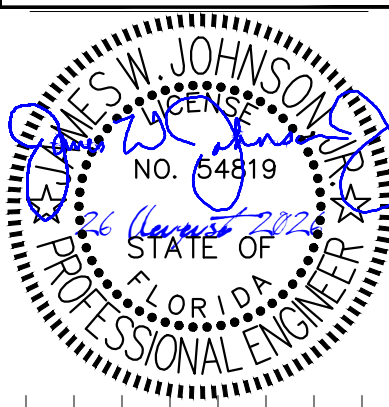
MECHANICAL LEGEND	
MARK	DESCRIPTION
CFM	CUBIC FEET PER MINUTE
CU	CONDENSING UNIT
HP	HEAT PUMP
RTU	ROOFTOP UNIT
SD	SUPPLY CEILING DIFFUSER (TITUS TDC-A-A)
DSO	DUCT MOUNTED SUPPLY DIFFUSER (TITUS S300F)
WSD	WALL MOUNTED SUPPLY DIFFUSER (TITUS S300F)
RG	RETURN GRILLE (TITUS 350FL)
WRG	WALL MOUNTED RETURN GRILLE (TITUS 350FL)
EG	EXHAUST GRILLE (TITUS 350FL)
TG	TRANSFER GRILLE (TITUS 350FL)
WTG	WALL MOUNTED TRANSFER GRILLE (TITUS 350FL)
OA	OUTSIDE AIR
AD	SUPPLY AIR
AD	AUTOMATIC DAMPER (24 VOLT)
AD	RETURN OR EXHAUST AIR
Ⓢ	THERMOSTAT/SENSOR
Ⓢ	SMOKE DETECTOR
FD	FIRE DAMPER
AD	TURNING VANES IN DUCT
AD	MANUAL VOLUME DAMPER
AD	SUPPLY DIFFUSER (TITUS TDC-A-A-A) (SG)
AD	SUPPLY OR OUTSIDE AIR DUCT IN SECTION
AD	EXISTING DUCTWORK
AD	SUPPLY AIR DUCTWORK
AD	EXHAUST AIR DUCTWORK
AD	RETURN AIR DUCTWORK
AD	OUTSIDE AIR DUCTWORK
AD	RETURN REGISTER (TITUS 25FL) (RR)

Ceiling Exhaust Fan Schedule																
MARK INFORMATION			FAN INFORMATION							SOUND INFORMATION			MOTOR INFORMATION			
MARK	QTY	MODEL	DRIVE TYPE	VOLUME (CFM)	EXTERNAL SP (IN. WG)	TOTAL EXTERNAL SP (IN. WG)	FAN SPEED (RPM)	OUTLET VELOCITY (FT/MIN)	TOTAL WEIGHT (LB)	INLET dBA	INLET SONES	INLET SONES (SPHERICAL)	OPERATING POWER (HP)	MOTOR SIZE (HP)	ENCLOSURE	EC MOTOR
EF-1 & EF-2	2	SP-A200	Direct	150	0.375	0.375	799	340.91	27	39.51	2.64	2.00	0.02	0.0667	OP	No
SELECTED OPTIONS AND ACCESSORIES																
UL/cUL 507 Listed - Electric Fan Solid State Speed Control, 6 Amp, Shipped Loose Isolation Kit, (PN: VI KIT-SP/CSP), Shipped Loose Adjustable easy installation mounting bracket				Energy Star Certified Aluminum Grille, (PN: 486006) Shipped Loose Aluminum Wheel Material Fan to run with light switch												

Ceiling Exhaust Fan Schedule																			
MARK INFORMATION		FAN INFORMATION							SOUND INFORMATION			MOTOR INFORMATION							
MARK	QTY	MODEL	DRIVE TYPE	VOLUME (CFM)	EXTERNAL SP (IN. WG)	TOTAL EXTERNAL SP (IN. WG)	FAN SPEED (RPM)	OUTLET VELOCITY (FT/MIN)	TOTAL WEIGHT (LB)	INLET dBA	INLET SONES	INLET SONES (SPHERICAL)	OPERATING POWER (HP)	MOTOR SIZE (HP)	ENCLOSURE	VOLTAGE	CYCLE	PHASE	EC MOTOR
EF-3, EF-4, & EF-5	1	SP-A90	Direct	50	0.375	0.369	900	261.11	15	30.41	1.12	0.77	0.01	0.0667	TA	115	60	1	No
SELECTED OPTIONS AND ACCESSORIES																			
UL/cUL 507 Listed - Electric Fan					Energy Star Certified														
Solid State Speed Control, 6 Amp, Shipped Loose					Aluminum Grille, (PN: 486005) Shipped Loose														
Round Duct Connection					Polypropylene Wheel Material														
Isolation Kit, (PN: V-KIT-SP/CSP), Shipped Loose					Fan to run with light switch														
Adjustable easy installation mounting bracket																			

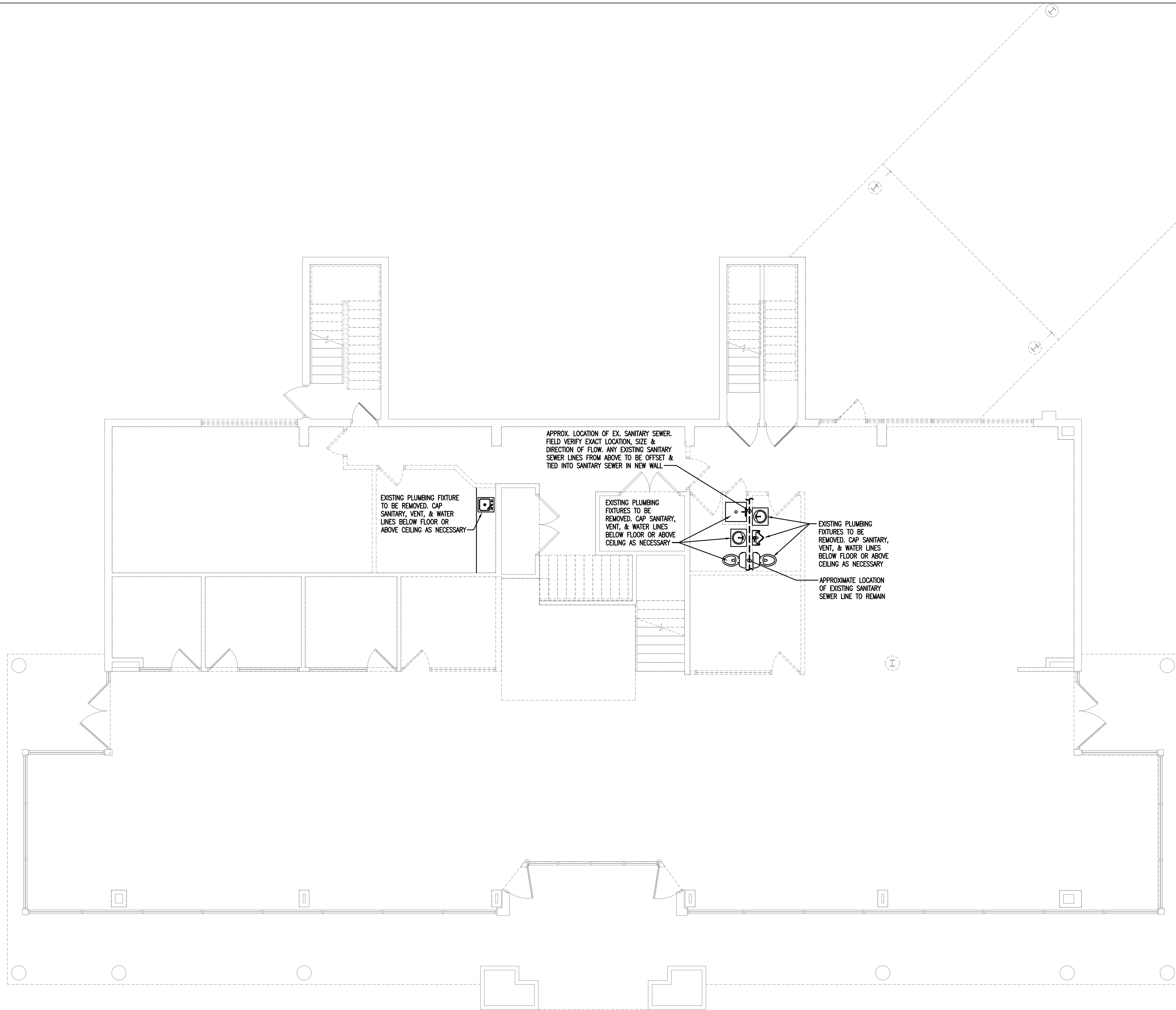
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1 EXISTING SHOWROOM: PLUMBING DEMOLITION PLAN



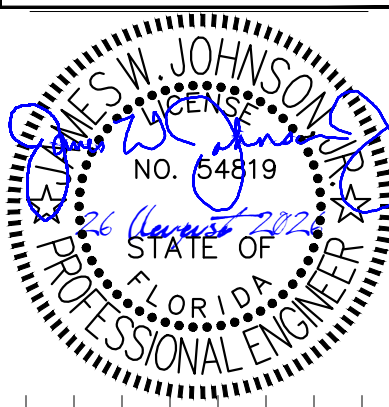
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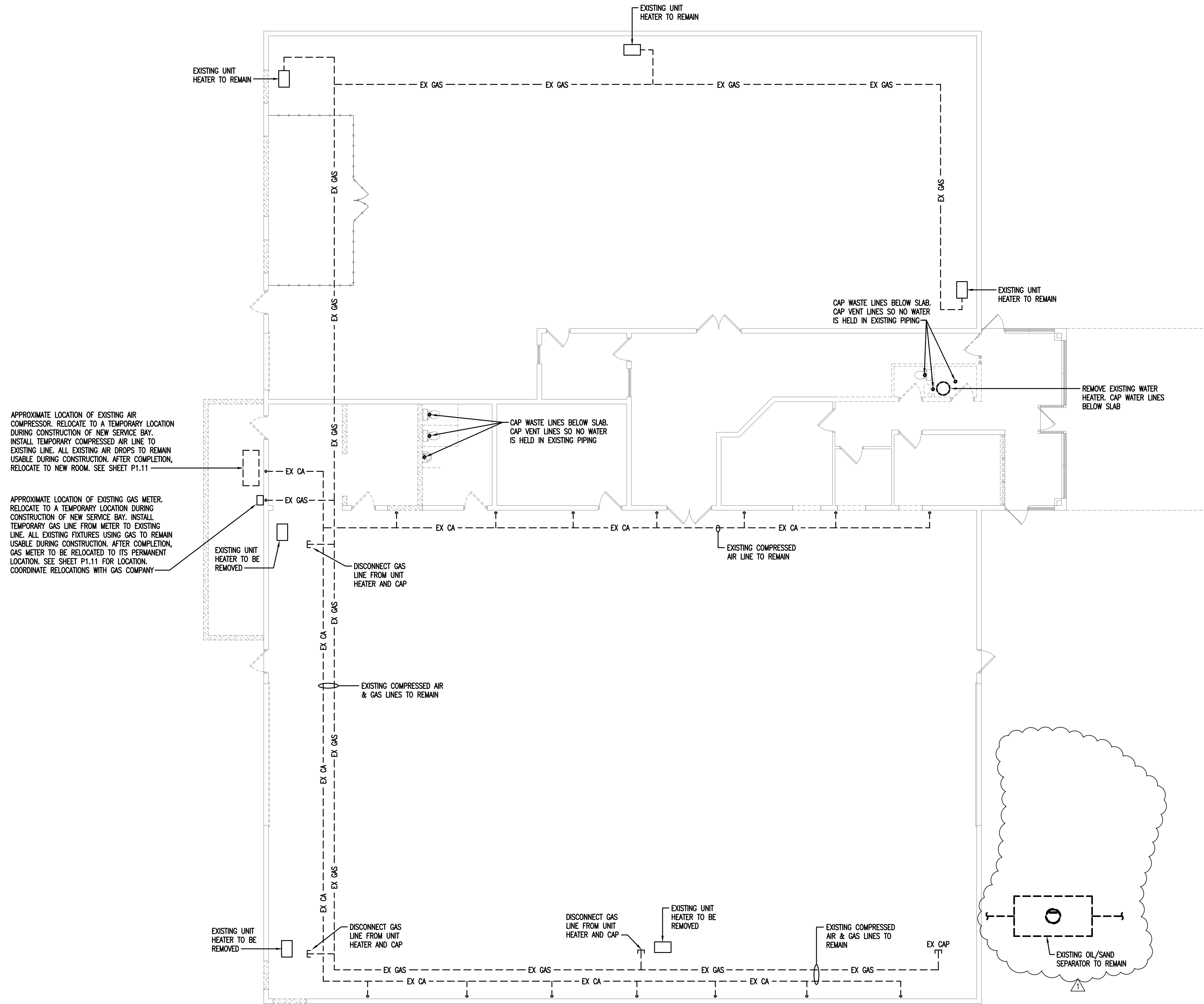
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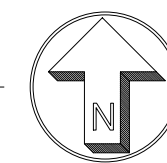
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Drawn By:	jdf / md
Project Number:	2519
Revisions	
A	26 AUG 2026
FOR REVIEWING PERMIT	

PD1.11

17 July 2026



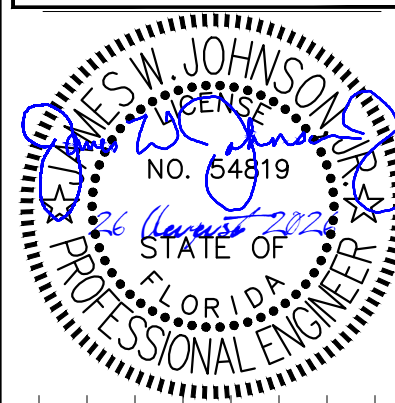
1 EXISTING SERVICE BUILDING: PLUMBING DEMOLITION PLAN



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	Alabama #CD-2429-E Arkansas #1654 Florida #00009014 Georgia #F000383 Louisiana #F000682	Mississippi #00000862 Missouri #2018035834 South Carolina #7558 Texas #F-16637

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FOR WALTON BEACH, FLORIDA

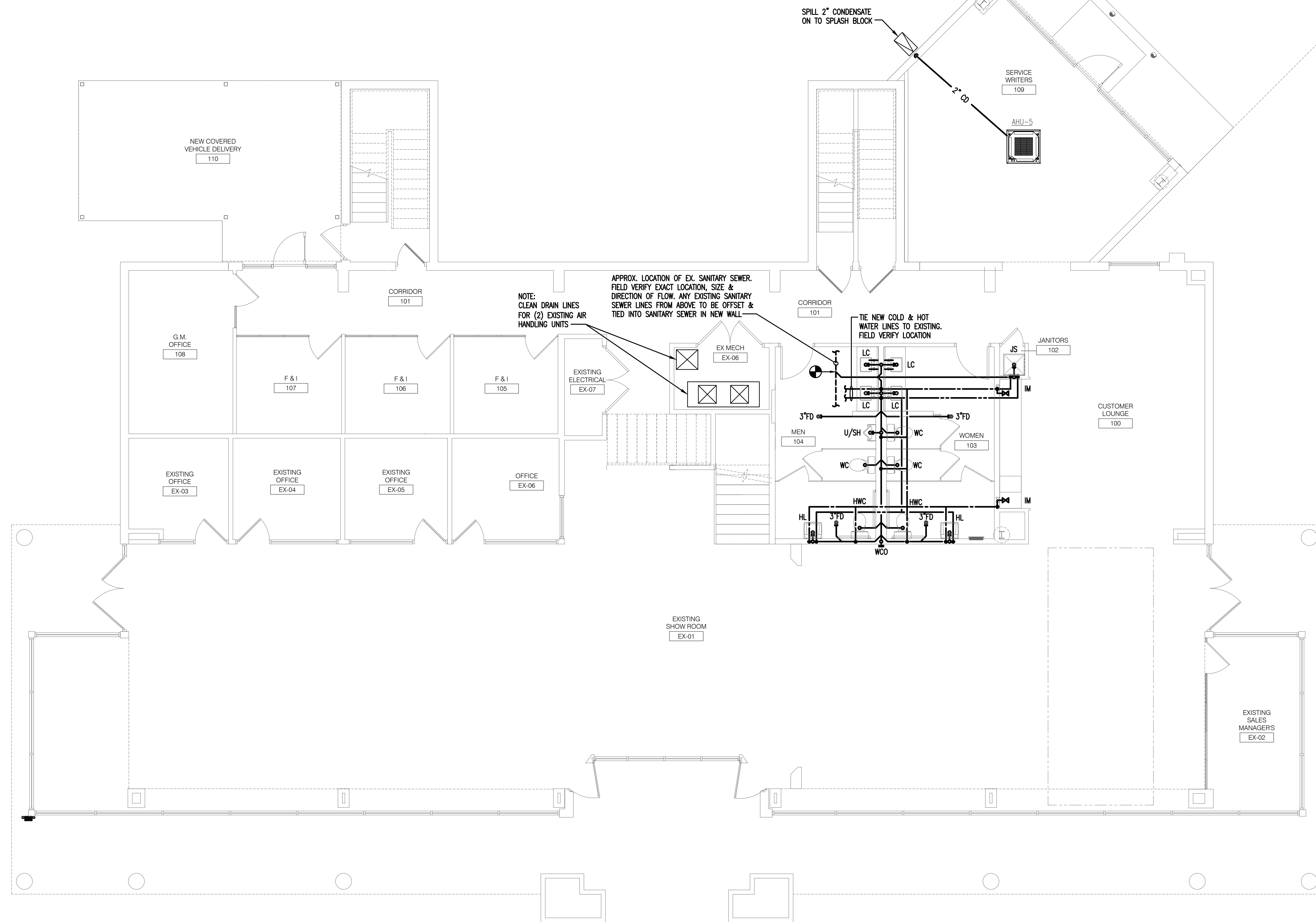
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Project Number:	2519
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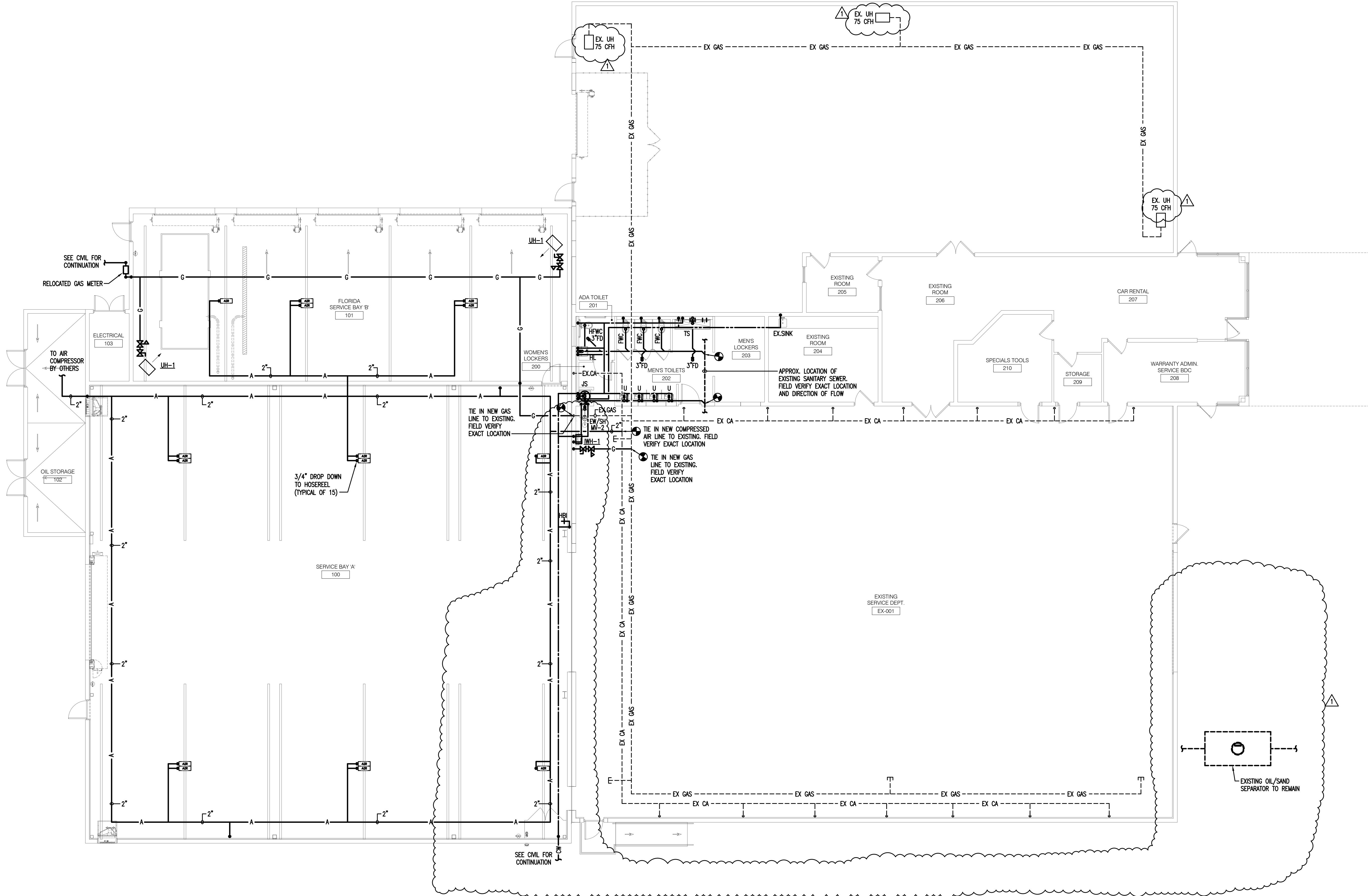


1 EXISTING SHOWROOM: PLUMBING FLOOR PLAN

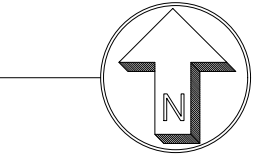
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1 EXISTING SERVICE BUILDING: PLUMBING FLOOR PLAN
SCALE: 1/8" = 1'-0"



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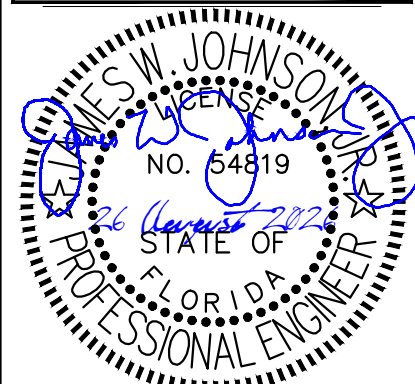
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EXISTING SERVICE
BUILDING: PLUMBING
FLOOR PLAN

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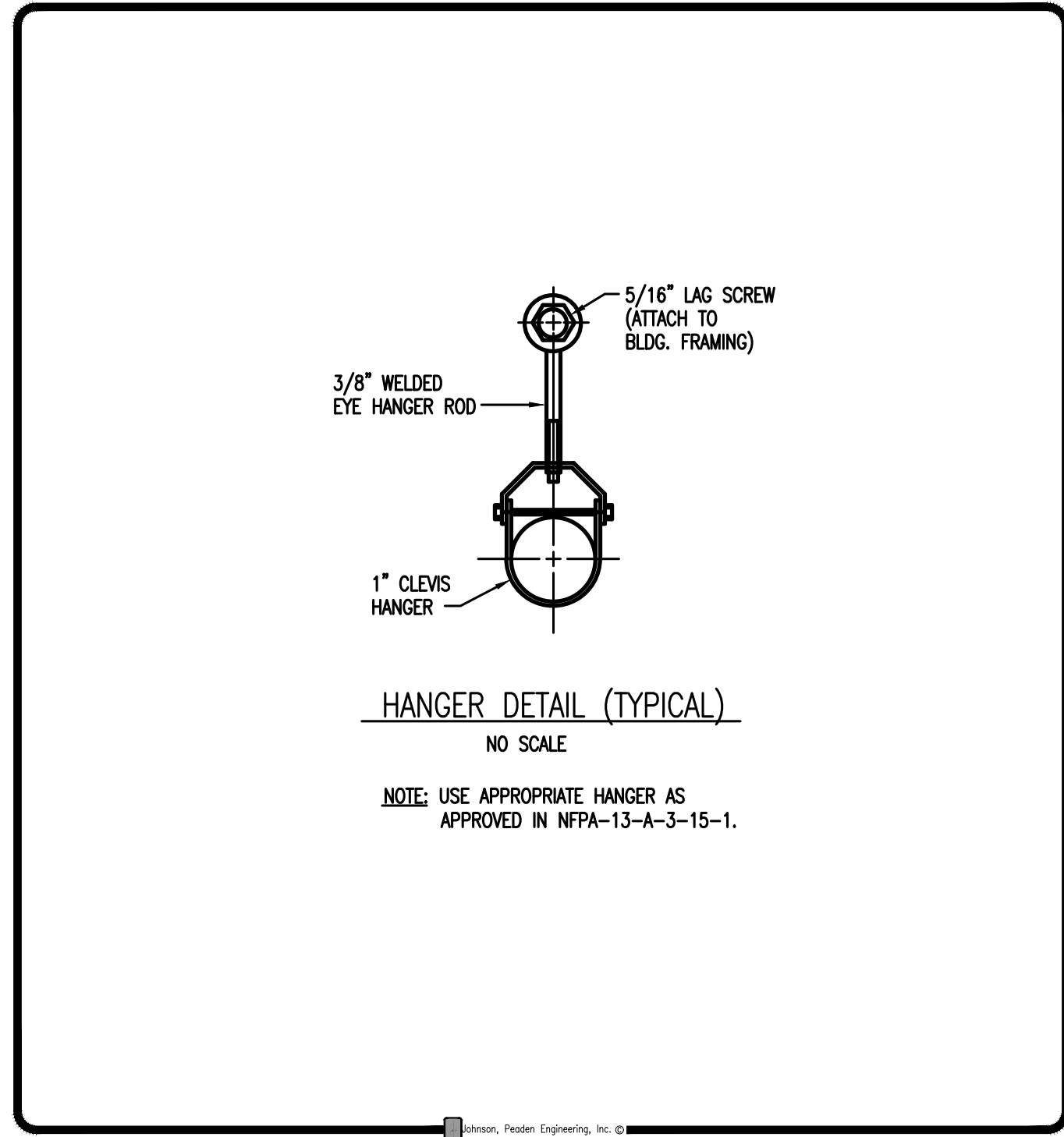
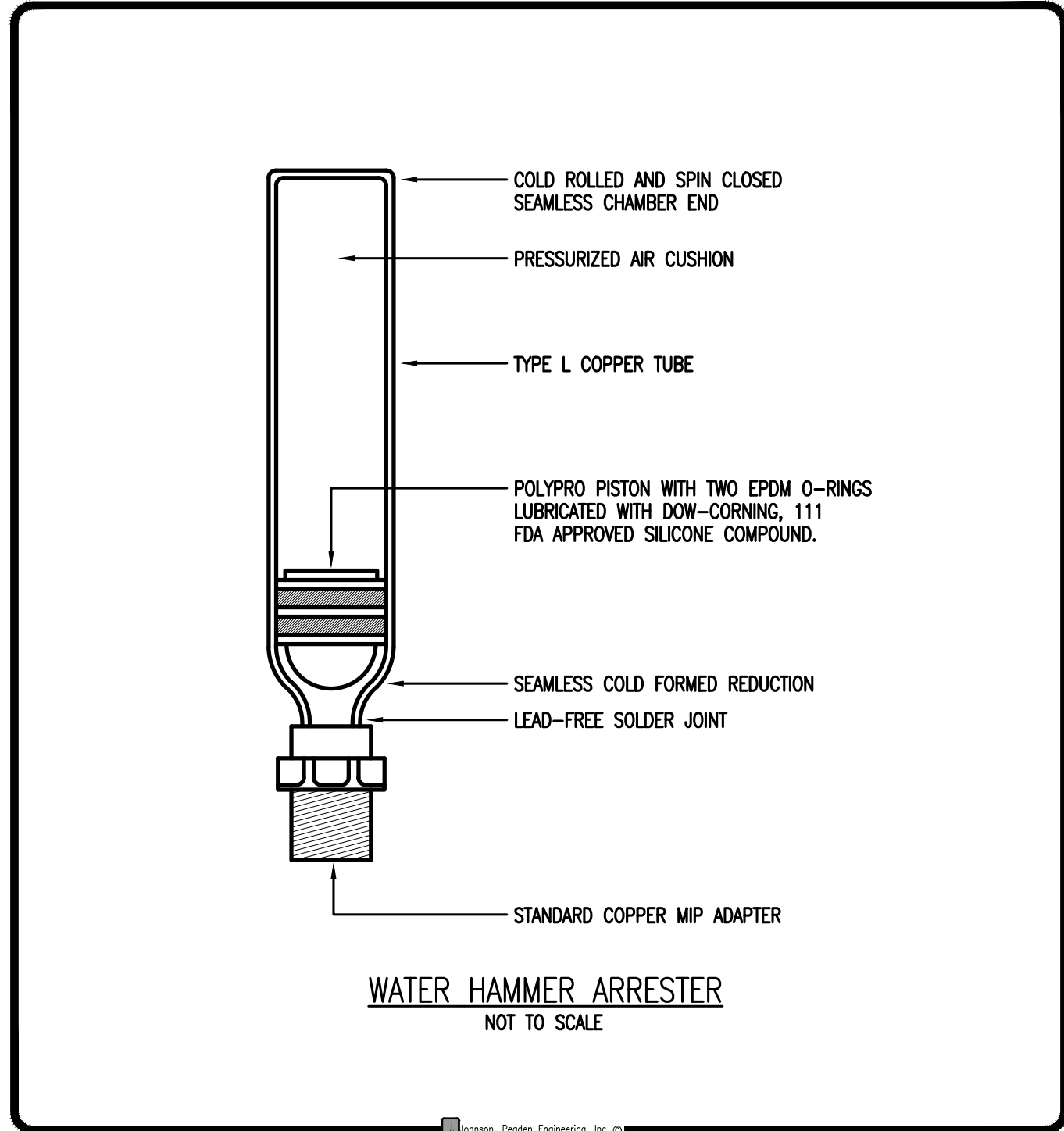
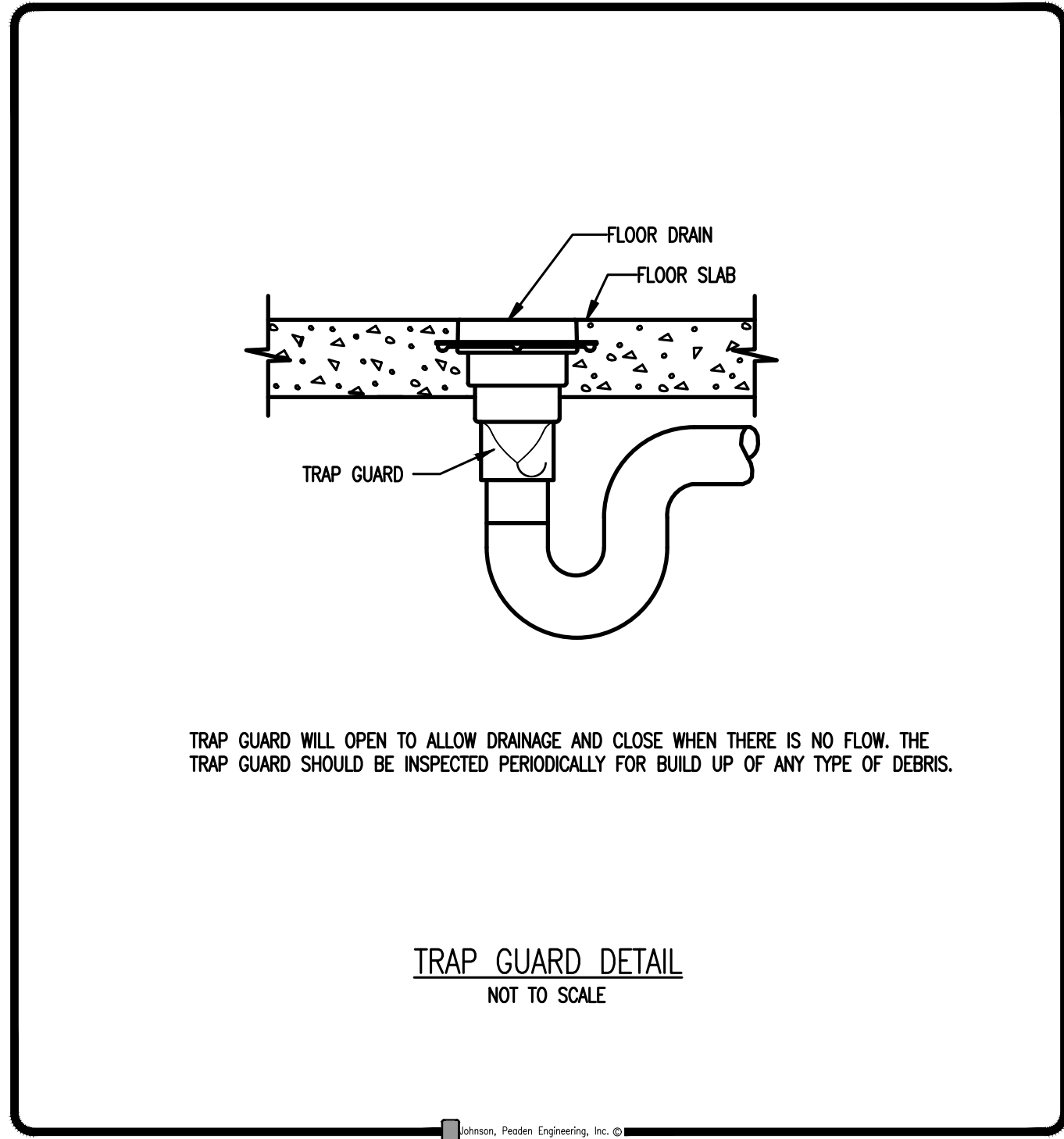
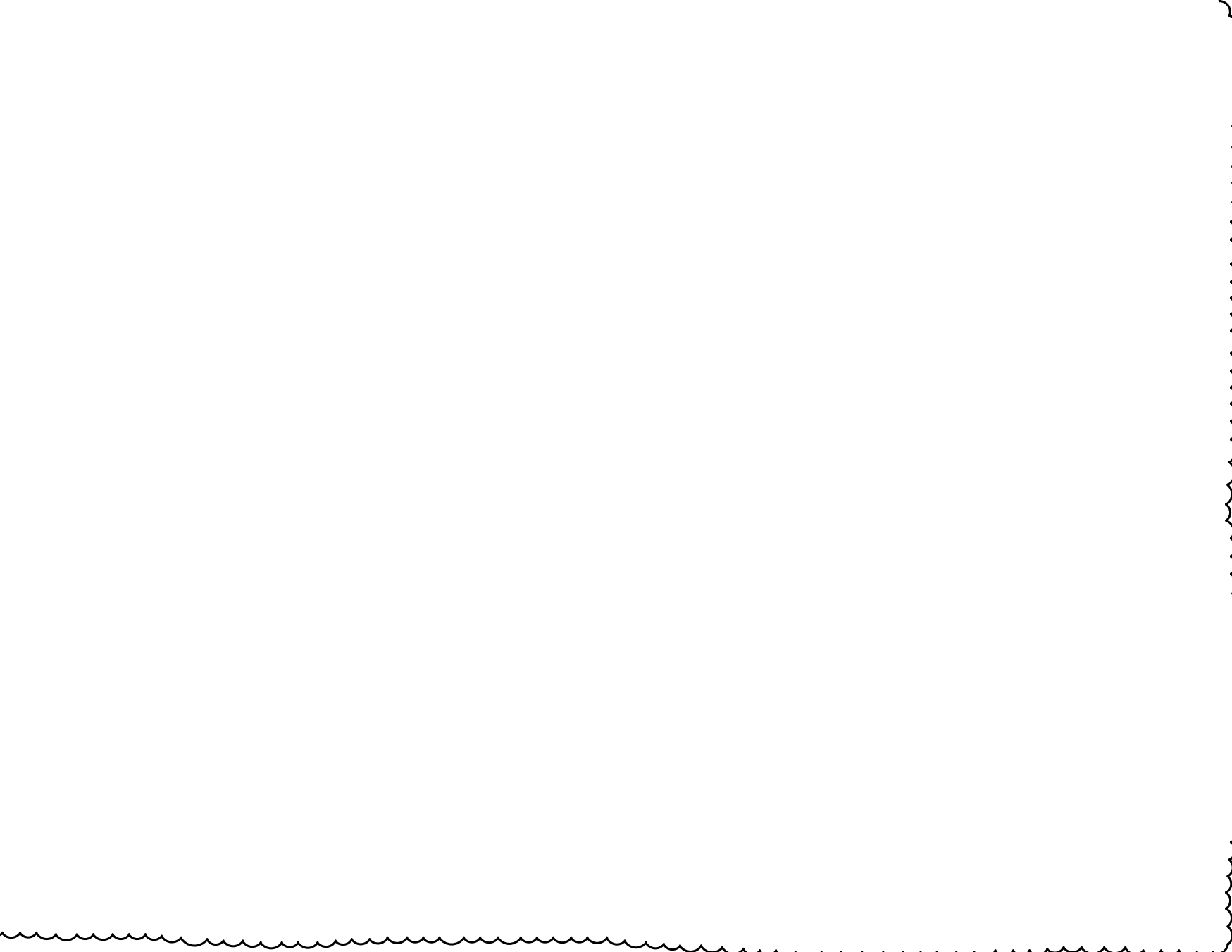
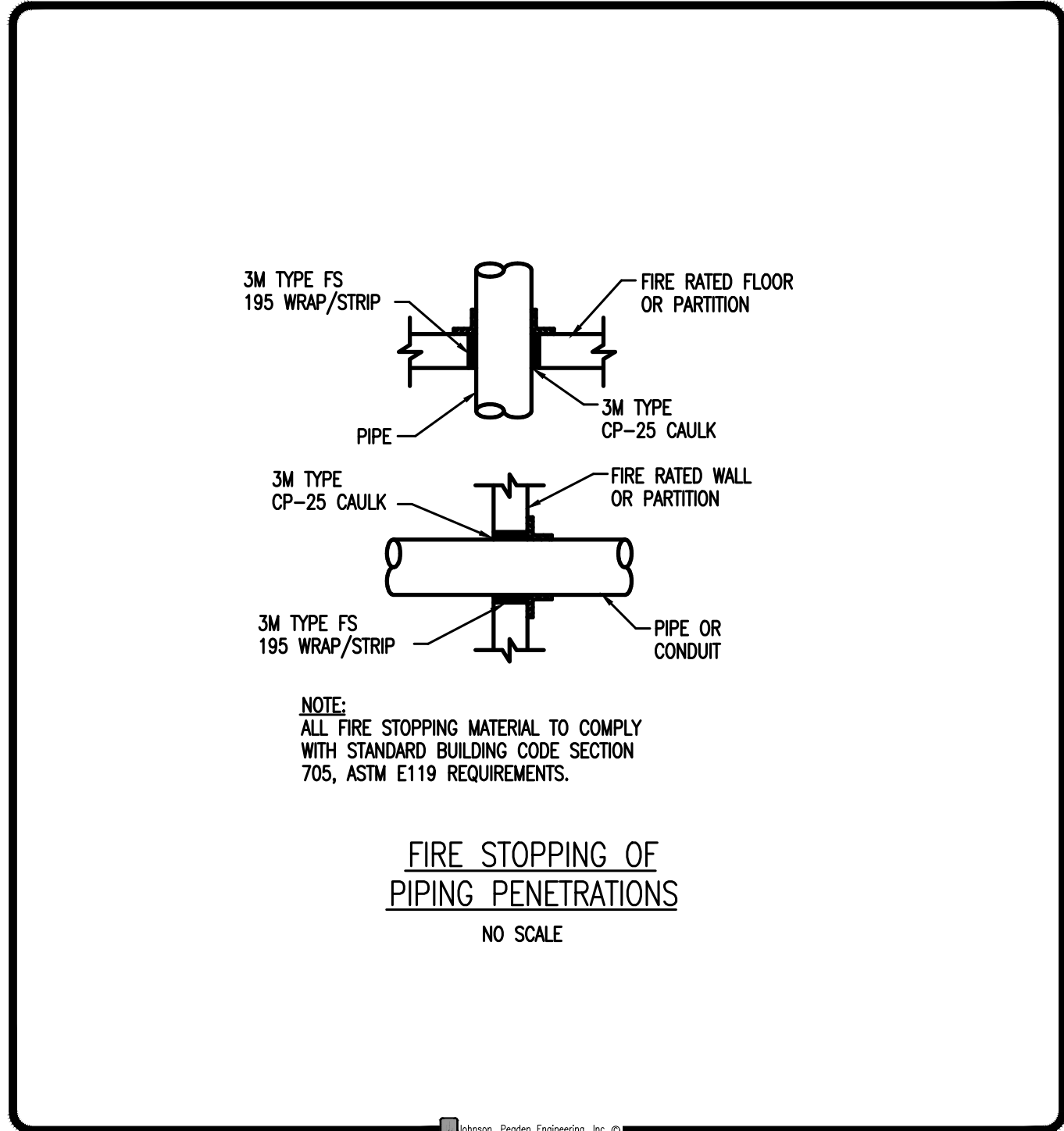
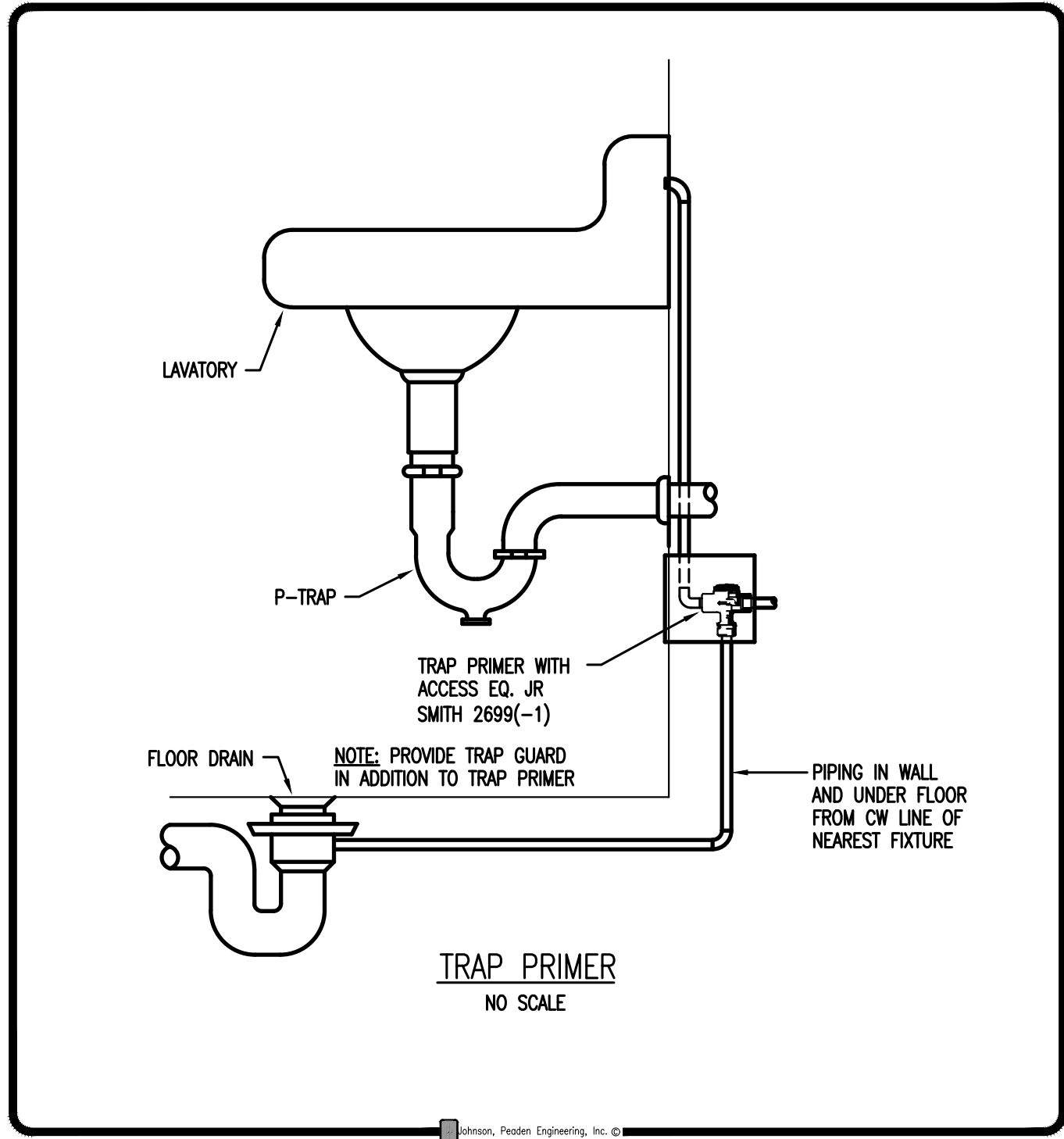
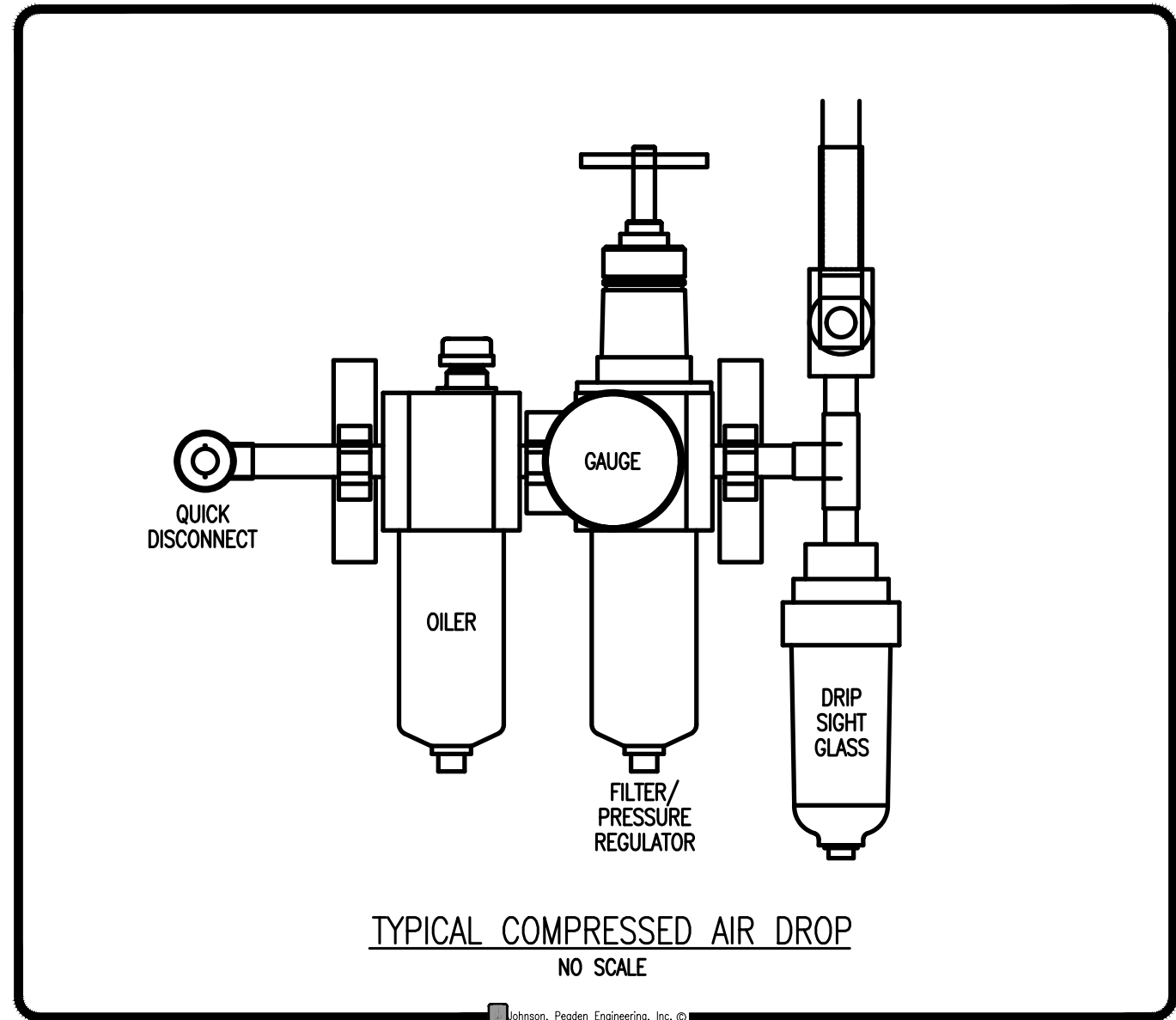
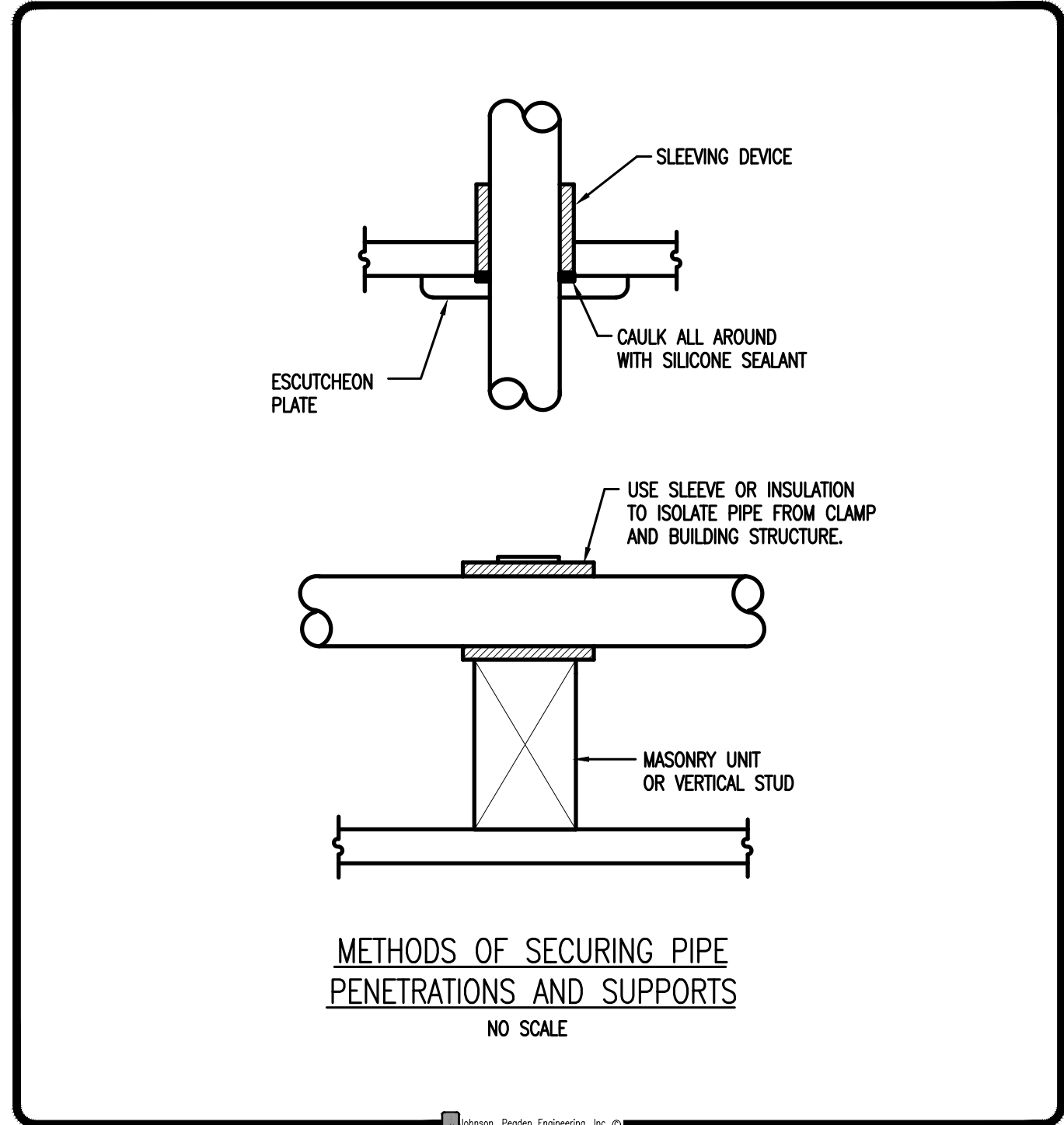
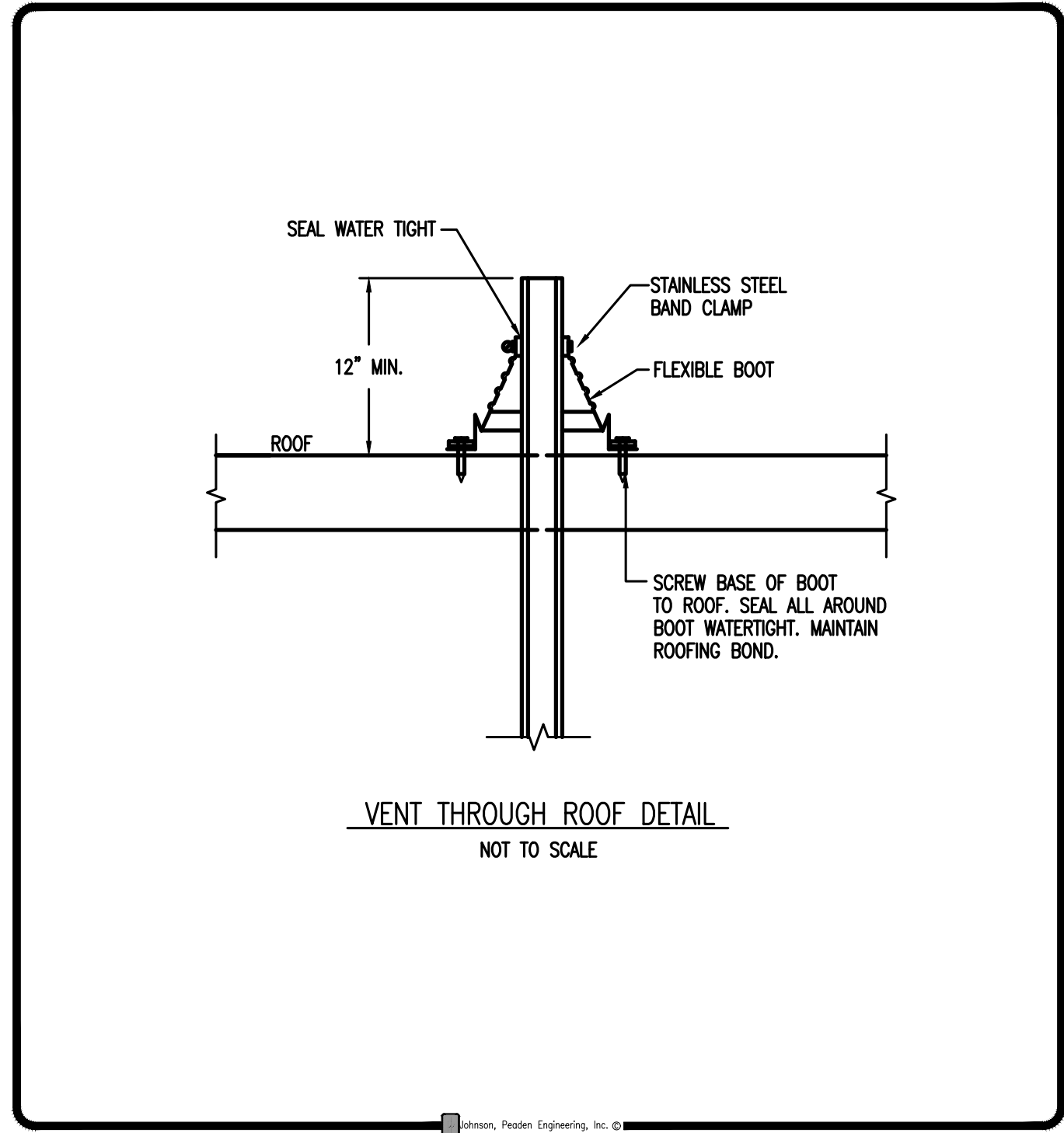
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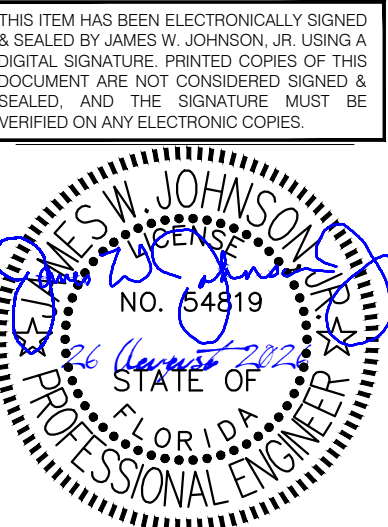
17 July 2026

PLUMBING DETAILS

Date:	17 JULY 2026
Drawn By:	jdf / mnd
Project Number:	2519
Revisions	26 AUG 2026
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Step One Automotive Group
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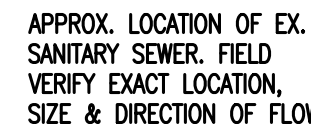
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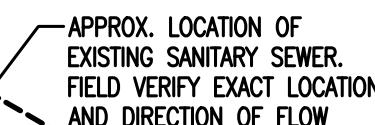
P5.10



NO SCALING



NO SCALE

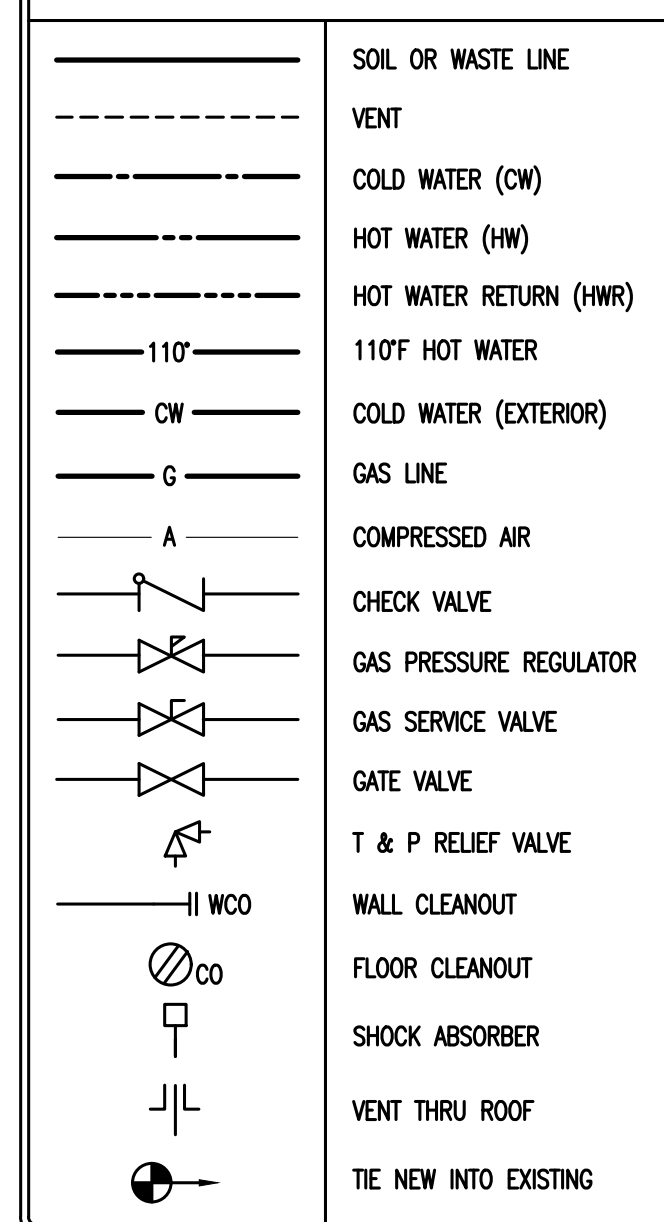


NO SCALE



NO SCALE

MARK	FIXTURE	SANITARY	C.W.	H.W.
HWC	WATER CLOSET, FLOOR, TANK TYPE, ADA COMPLIANT, AMERICAN STANDARD MODEL 2467.100	3"	3/4"	—
HFWC	WATER CLOSET, FLOOR, FLUSH VALVE, ADA COMPLIANT, AMERICAN STANDARD MODEL 2854.128	3"	1-1/4"	—
WC	WATER CLOSET, FLOOR, TANK TYPE, AMERICAN STANDARD MODEL 2467.100	3"	3/4"	—
FWC	WATER CLOSET, FLOOR, FLUSH VALVE, AMERICAN STANDARD MODEL 2854.128	3"	1-1/4"	—
U	URINAL, AMERICAN STANDARD MODEL 6590.503	2"	3/4"	—
U/SH	URINAL, AMERICAN STANDARD MODEL 6042.001EC	2"	3/4"	—
HL	LAVATORY, WALL HUNG, ADA COMPLIANT, AMERICAN STANDARD MODEL 9024.001EC	1 1/4"	1/2"	1/2"
LC	LAVATORY, COUNTERTOP, AMERICAN STANDARD MODEL 0614.000	1 1/4"	1/2"	1/2"
IM	ICE MAKER CONNECTION	—	1/2"	—
TS	TROUGH SINK	1 1/2"	1/2"	1/2"
JS	JANITOR SINK, FIAT MODEL MSB2424	1 1/2"	1/2"	1/2"
FD	FLOOR DRAIN W/ TRAP PRIMER AND TRAP GUARD, JR SMITH D2050	ON DWG	—	—
TD	TRENCH DRAIN WITH 1/2" PER 1'-0" SLOPE WITH HEAVY DUTY TRAFFIC COVER, JR SMITH 9960	—	1/2"	—
HBI	HOSE BIBB, INTERIOR	—	1/2"	—
EW/SH	EMERGENCY EYEWASH/SHOWER WITH EMERGENCY MIXING VALVE, BRADLEY MODEL S19-312	1-1/2"	1-1/2"	1-1/2"
EWH-1	ELECTRIC WATER HEATER, 40 GALLON LOWBOY, 4.5 KW ELEMENTS, 208/3, EQUAL TO AO SMITH DEL40	T&P	3/4"	3/4"
IWH-1	AO SMITH WALL MOUNTED WATER HEATER, MODEL ACT-199I-N, 15-199 MBH INPUT, 6.0 GPM FLOW W/60° RISE, PRESSURE DROP 12 PSI @ 6 GPM, MAX LEAVING WATER TEMPERATURE SET TO 120°F	T&P	1-1/2"	1-1/2"
MV-1	LEONARD VALVE TM-26-LF, 3/4" IN & OUT, MAX 5 PSI LOSS, MINIMUM FLOW 1.0 GPM			
MV-2	LEONARD VALVE TM-600-LF, 3/4" IN & OUT, MAX 45 PSI LOSS, 3-51 GPM FLOW RATE			
ET-1	EXPANSION TANK, 2.1 GALLON, 1.48 GALLON TANK ACCEPTANCE, 150 PSI MAXIMUM PRESSURE, EQUAL TO WAITS PLT-5			



3. FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NEEDED TO PROVIDE A COMPLETE PLUMBING SYSTEM. THIS CONTRACTOR, BUT IS NOT LIMITED TO, WATER PIPING, WASTE AND VENT PIPING, AND ALL NECESSARY VALVES, TRAPS, AND ACCESSORIES.
4. ALL WORK SHALL BE PERFORMED BY SKILLED AND EXPERIENCE WORKMEN. WORK SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODES. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED PERMITS, LICENSES, AND INSPECTIONS.
5. ROUGH-IN'S SHALL BE MADE FROM ARCHITECTURAL DRAWINGS AND FIELD VERIFICATION, NOT FROM PLUMBING DRAWINGS AS THEY ARE ONLY SCHEMATIC. THIS CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS AND TAPS, AND FOR CHECKING ALL ELEVATIONS, GRADES, AND INVERTS BEFORE THE START OF CONSTRUCTION. NOTIFY THE ARCHITECT IMMEDIATELY IF ANY DISCREPANCY OR ERROR IS DETECTED.
6. THIS CONTRACTOR SHALL COORDINATE ALL WORK WITH THE ELECTRICAL, MECHANICAL, AND FIRE PROTECTION CONTRACTORS TO AVOID CONFLICTS WITH OTHER TRADES. MAKE DEVIATIONS AS NECESSARY FROM THE WORK SHOWN ON THE DRAWINGS TO ENSURE THE WORK FITS THE SPACE(S) PROVIDED. NOTIFY THE ARCHITECT OF ANY NECESSARY DEVIATIONS.
7. IF NEW CONNECTIONS REQUIRE INTERRUPTION OF EXISTING SERVICES, ALL PREPARATORY WORK SHALL BE COMPLETED EARLY TO MINIMIZE TIME, WHERE POSSIBLE, PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN UTILITY SERVICE.
8. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND WITHOUT DEFECTS. SUBMIT SHOP DRAWINGS FOR ALL PIPING AND MATERIALS. ALL WORK DONE BY THIS CONTRACTOR SHALL BE WARRANTED FOR ONE YEAR FROM THE TIME THE OWNER GIVES ACCEPTANCE OR GAINS BENEFICIAL USE, WHICHEVER IS FIRST.
9. ALL SANITARY AND VENT LINES SHALL BE HUBLESS CAST IRON PIPE CISP1 3170-78 STANDARD WEIGHT WITH SPIGOT ENDS FOR COUPLING. HUBLESS CAST IRON JOINTS TO BE CISP1 30 STAINLESS STEEL SHIELD OVER ONE PIECE NEOPRENE SLEEVE. THIS CONTRACTOR MAY USE PVC PIPE AND FITTINGS CONFORMING TO ASTM D-2665 WHERE ALLOWED BY CODE.
10. ROOF PENETRATIONS SHALL BE FLASHED AND MADE WATER-TIGHT IN A MANNER APPROVED BY THE MANUFACTURER OF THE FLASHING AND CONFORMING WITH ARCHITECTURAL REQUIREMENTS.
11. PROVIDE CLEANOUTS WHERE INDICATED ON PLANS AND AS NECESSARY TO COMPLY WITH THE STANDARD PLUMBING CODE. ALL CLEANOUTS SHALL BE IN ACCESSIBLE LOCATIONS.
12. INSULATE ALL DOMESTIC WATER PIPING ABOVE GRADE WITH 3/4" THICK FLEXIBLE CLOSED-CELL POLYETHYLENE INSULATION. SEAL ALL JOINTS AND SEAMS AND INSULATE FITTINGS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
13. HANGERS FOR EQUIPMENT AND PIPING SHALL BE SECURED TO THE BUILDING STRUCTURE, NO HANGERS SHALL BE ATTACHED TO THE FLOOR OR ROOF DECK MATERIAL, OR CONCRETE DECKS LESS THAN 4" THICK.
14. INSTALL SHOCK ABSORBERS VERTICALLY AT EACH FIXTURE. OFFSET AS NEEDED TO GAIN A MINIMUM HEIGHT OF 18". ALL SHOCK ABSORBERS SHALL BE A MINIMUM OF ONE PIPE SIZE LARGER THAN THE BRANCH OR SERVICE LINE.
15. PROVIDE CHROME PLATED BRASS ESCUTCHEON PLATES AT ALL PENETRATIONS OF WALLS, FLOORS OR CEILINGS IN FINISHED AREAS AND UNDER LAVATORIES. PROVIDE STOPS AND TRAPS FOR ALL FIXTURES. LEAK TEST WATER PIPING, FOR NOT LESS THAN 90 MINUTES AT 100 PSI. FILL SANITARY SEWER SYSTEM TO A MINIMUM HEIGHT OF TEN FEET AND LET STAND FOR AT LEAST 30 MINUTES WITHOUT LEAKAGE. AFTER PRESSURE TESTS HAVE BEEN MADE, THOROUGHLY FLUSH THE ENTIRE DOMESTIC WATER SYSTEM WITH WATER UNDER PRESSURE. WASTE AND MUD HAVE BEEN REMOVED. STERILIZE THE ENTIRE STERILIZING MATERIAL SHALL BE EITHER LIQUID CHLORINE CONFORMING THE FED. SPEC. BB-C-120, OR HYPOCHLORITE CONFORMING TO FED. SPEC. 0-C-114, OR FED. SPEC. 0-S-602M. THE CHLORINATING AGENT SHALL PROVIDE A MINIMUM DOSAGE OF 50 PPM AND WATER SHALL BE RETAINED IN THE SYSTEM FOR 90 MIN. THE SYSTEM WILL THEN BE FLUSHED WITH CLEAN POTABLE WATER UNTIL THE RESIDUAL CHLORINE IS 100 PPM. PROVIDE THREE SETS OF SAMPLES FOR ANALYSIS. PROVIDE THREE SETS OF ANALYSES. TAKE SAMPLES AND DELIVER CERTIFICATES OF APPROVAL TO THE OWNER. ANY NEGATIVE RESULTS MUST BE INVESTIGATED, AND IF NECESSARY CORRECTED, BEFORE THE BUILDING MAY BE ACCEPTED.



NO SCALE