

## ADDENDUM NO. 1

**TO: PLANS AND SPECIFICATIONS FOR STATE OF MISSOURI**

**Camp Avery – Replace Fire Sprinkler System, Multiple Assets  
Camp Avery – 198 Avery Ln  
Troy, Missouri 63379  
PROJECT NO.: H2001-01**

**Bid Opening Date: 1:30 PM, Thursday, December 1, 2022 (Not Changed)**

**Bidders are hereby informed that the construction Plans and/or Specifications are modified as follows:**

### **SPECIFICATION CHANGES:**

None

### **DRAWING CHANGES:**

1. Sheet FP1.0 – Full Sheet Re-issued
  - a. Updated keyed notes to reference the correct sheet.
2. Sheet FP3.1 – Full Sheet Re-issued
  - a. Updated keyed notes to reference the correct sheet.
3. Sheet FP3.2 - Full Sheet Re-issued
  - a. Updated keyed notes to reference the correct sheet.
4. Sheet FP3.3 - Full Sheet Re-issued
  - a. Updated keyed notes to reference the correct sheet.
5. Sheet E1.0 - Full Sheet Re-issued
  - a. Updated keyed notes to reference the correct sheet.

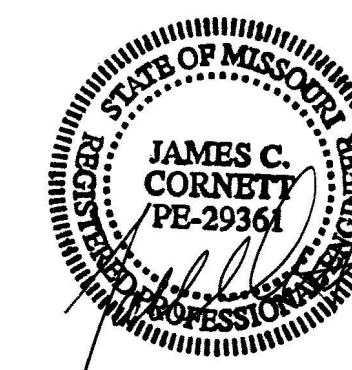
### **GENERAL COMMENTS:**

None

### **ATTACHMENTS:**

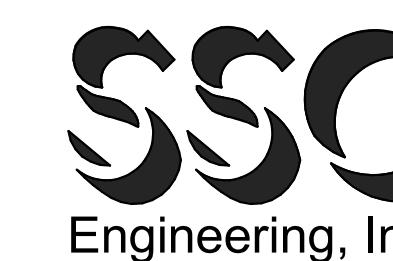
Sheet FP1.0, FP3.1, FP3.2, FP3.3, E1.0

**END OF ADDENDUM NO. 1**



10/5/22

JAMES C. CORNETT  
MO LIC# PE-29364 EXP. 12/31/23



18207 Edison Avenue  
Chesterfield, Missouri 63005  
Phone: (636) 530-7770 Fax: (636) 530-7877  
Missouri Certificate of Authority #NC 001244



THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

OFFICE OF  
ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT,  
DESIGN AND  
CONSTRUCTION  
DIVISION OF YOUTH  
SERVICES

CAMP AVERY - FIRE  
SPRINKLER SYSTEM

198 AVERY LN  
TROY, MO 63379

PROJECT # H2001-01  
SITE # 7719  
FACILITY # 8877719001;  
8877719002;887719004

REVISION: ADDENDUM #1  
DATE: 11/04/22  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 10/5/22

CAD DWG FILE: -  
DRAWN BY: LMM  
CHECKED BY: JCC  
DESIGNED BY: LMM

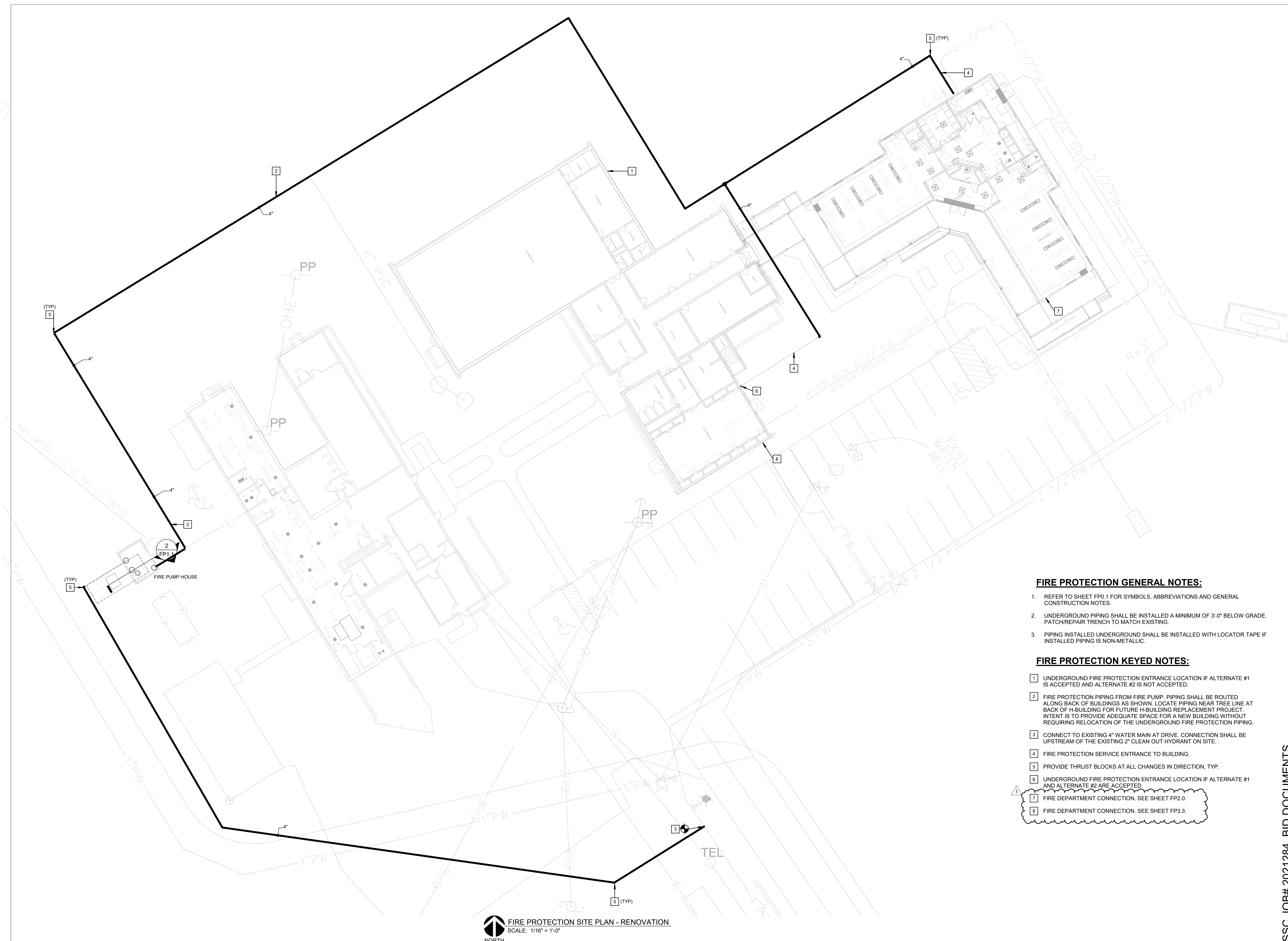
SHEET TITLE:  
FIRE PROTECTION SITE  
PLAN

SHEET NUMBER:

FP1.0

SHEET 9 OUT OF 17  
10/5/22

SSC JOB# 2021284\_BID DOCUMENTS

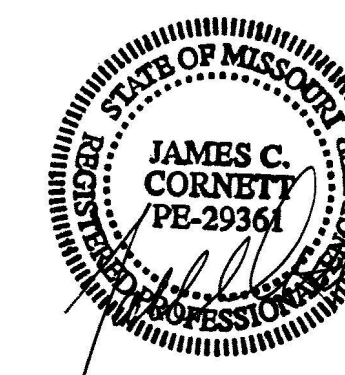


**FIRE PROTECTION GENERAL NOTES:**

- REFER TO SHEET FP0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.
- UNDERGROUND PIPING SHALL BE INSTALLED A MINIMUM OF 3'-0" BELOW GRADE. PATCH/REPAIR TRENCH TO MATCH EXISTING.
- PIPING INSTALLED UNDERGROUND SHALL BE INSTALLED WITH LOCATOR TAPE IF INSTALLED PIPING IS NON-METALLIC.

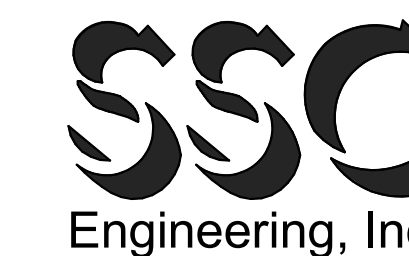
**FIRE PROTECTION KEYED NOTES:**

- UNDERGROUND FIRE PROTECTION ENTRANCE LOCATION IF ALTERNATE #1 IS ACCEPTED AND ALTERNATE #2 IS NOT ACCEPTED.
- FIRE PROTECTION PIPING FROM FIRE PUMP. PIPING SHALL BE ROUTED ALONG BACK OF BUILDINGS AS SHOWN. LOCATE PIPING NEAR TREE LINE AT BACK OF H-BUILDING FOR FUTURE H-BUILDING REPLACEMENT PROJECT. INTENT IS TO PROVIDE ADEQUATE SPACE FOR A NEW BUILDING WITHOUT REQUIRING RELOCATION OF THE UNDERGROUND FIRE PROTECTION PIPING.
- CONNECT TO EXISTING 4" WATER MAIN AT DRIVE. CONNECTION SHALL BE UPSTREAM OF THE EXISTING 2" CLEAN OUT HYDRANT ON SITE.
- FIRE PROTECTION SERVICE ENTRANCE TO BUILDING.
- PROVIDE THRUST BLOCKS AT ALL CHANGES IN DIRECTION, TYP.
- UNDERGROUND FIRE PROTECTION ENTRANCE LOCATION IF ALTERNATE #1 AND ALTERNATE #2 ARE ACCEPTED.
- FIRE DEPARTMENT CONNECTION. SEE SHEET FP2.0.
- FIRE DEPARTMENT CONNECTION. SEE SHEET FP3.3.



10/5/22

JAMES C. CORNETT  
MO LIC# PE-29364 EXP. 12/31/23



18207 Edison Avenue  
Chesterfield, Missouri 63005  
Phone: (636) 530-7770 Fax: (636) 530-7877  
Missouri Certificate of Authority #MC 001244



THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

OFFICE OF  
ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT,  
DESIGN AND  
CONSTRUCTION  
DIVISION OF YOUTH  
SERVICES

CAMP AVERY - FIRE  
SPRINKLER SYSTEM

198 AVERY LN  
TROY, MO 63379

PROJECT # H2001-01  
SITE # 7719  
FACILITY # 8877719001

REVISION: ADDENDUM #1  
DATE: 11/04/22  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 10/5/22

CAD DWG FILE: -  
DRAWN BY: LMM  
CHECKED BY: JCC  
DESIGNED BY: LMM

SHEET TITLE:  
FIRE PROTECTION  
MULTIPURPOSE  
BASEMENT FLOOR PLAN

SHEET NUMBER:

FP3.1

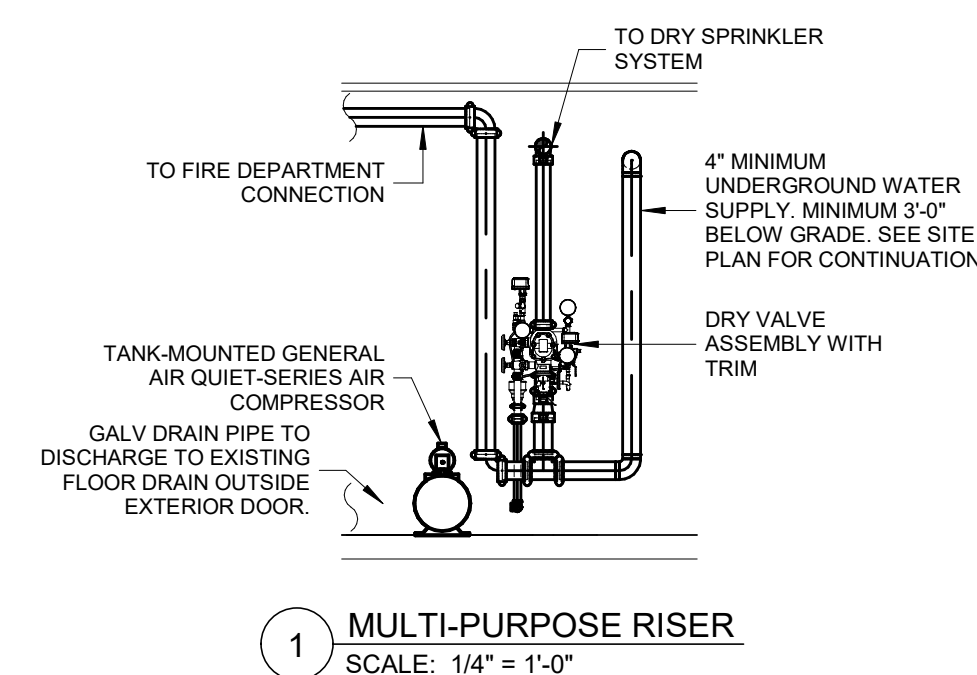
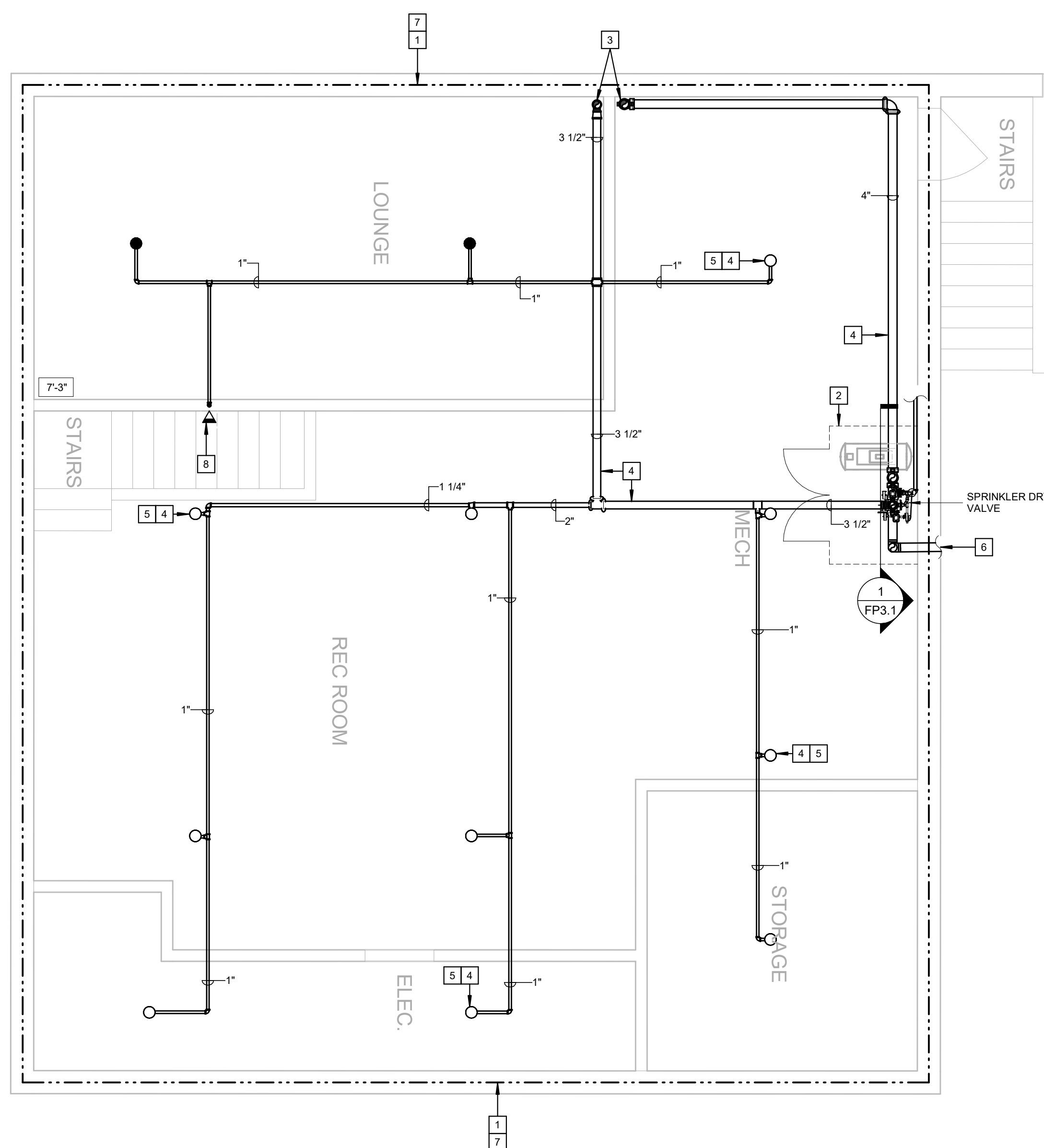
SHEET 12 OUT OF 17  
10/5/22

**GENERAL NOTES:**

- REFER TO SHEET FP0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.
- PIPE SIZES SHOWN ON PLANS ARE TO ASSIST IN BIDDING PURPOSES ONLY. PIPE SIZES SHOWN ARE DETERMINED BY PIPE SCHEDULE METHOD AS NOTED IN NFPA 13.

**KEYED NOTES:**

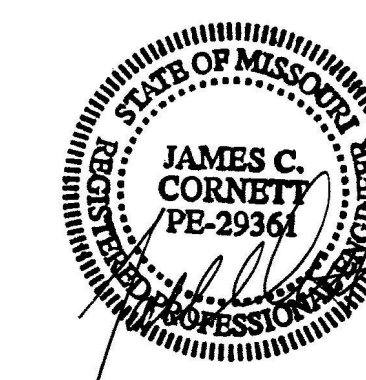
- PROVIDE THE DESIGN AND INSTALLATION OF A COMPLETE AND FUNCTIONAL AUTOMATIC DRY FIRE PROTECTION SYSTEM IN THE AREA INDICATED. FIRE PROTECTION SYSTEM(S) SHALL BE DESIGNER PER NFPA 13 AND IBC REQUIREMENTS FOR A FULLY SPRINKLERED BUILDING. PROVIDE ALL SPRINKLERS, PIPING, HANGERS, ETC. AND COORDINATE LOCATIONS, PIPE ROUTING, SCHEDULING, AND ALL OTHER INSTALLATION REQUIREMENTS WITH OTHER TRADES AND EXISTING CONDITIONS.
- PROVIDE A SECURE CHAIN LINK FENCE AROUND SPRINKLER RISER AND EQUIPMENT. PROVIDE (2) SINGLE-SWING 2FT GATES FOR A TOTAL 4'-0" CLEARANCE AREA FOR ACCESS AND MAINTENANCE OF EQUIPMENT. GATE SHALL SWING OUT OF ENCLOSURE TO PREVENT DAMAGE TO THE SPRINKLER RISER FROM THE GATE. COORDINATE WITH OWNER FOR LOCK REQUIREMENTS.
- PIPING UP TO FLOOR ABOVE. SEE SHEET FP3.3 FOR CONTINUATION.
- SPRINKLERS AND PIPING SHALL BE INSTALLED AS TIGHT TO STRUCTURE AS POSSIBLE. TYP ALL.
- ALL UPRIGHT SPRINKLERS SHALL BE PROVIDED WITH LISTED SPRINKLER GUARDS.
- LOCATION OF WATER ENTRANCE AND RISER IF ALTERNATE #1 AND ALTERNATE #2 ARE ACCEPTED. SEE SHEET FP3.2 FOR LOCATION IF ONLY ALTERNATE #1 IS ACCEPTED.
- IF ALTERNATE #2 IS NOT ACCEPTED, NO WORK IN THIS AREA.
- CONCEALED DRY SIDEWALL SPRINKLER LOCATED BENEATH STAIRS.



1 MULTI-PURPOSE RISER  
SCALE: 1/4" = 1'-0"

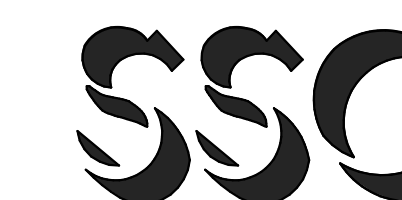
FIRE PROTECTION MULTI-PURPOSE BASEMENT - RENOVATION  
SCALE: 1/4" = 1'-0"  
NORTH

SSC JOB# 2021284\_BID DOCUMENTS



10/5/22

JAMES C. CORNETT  
MO LIC# PE-29361 EXP. 12/31/23



18207 Edison Avenue  
Chesterfield, Missouri 63005  
Phone: (636) 530-7770 Fax: (636) 530-7877  
Missouri Certificate of Authority #NC 001244



THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

OFFICE OF  
ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT,  
DESIGN AND  
CONSTRUCTION  
DIVISION OF YOUTH  
SERVICES

CAMP AVERY - FIRE  
SPRINKLER SYSTEM

198 AVERY LN  
TROY, MO 63379

PROJECT # H2001-01  
SITE # 7719  
FACILITY # 8877719001

REVISION: ADDENDUM #1  
DATE: 11/04/22  
REVISION:  
DATE:  
REVISION:  
DATE:  
ISSUE DATE: 10/5/22

CAD DWG FILE: -  
DRAWN BY: LMM  
CHECKED BY: JCC  
DESIGNED BY: LMM

SHEET TITLE:  
FIRE PROTECTION  
MULTIPURPOSE 1ST  
FLOOR PLAN - NORTH

SHEET NUMBER:

FP3.2

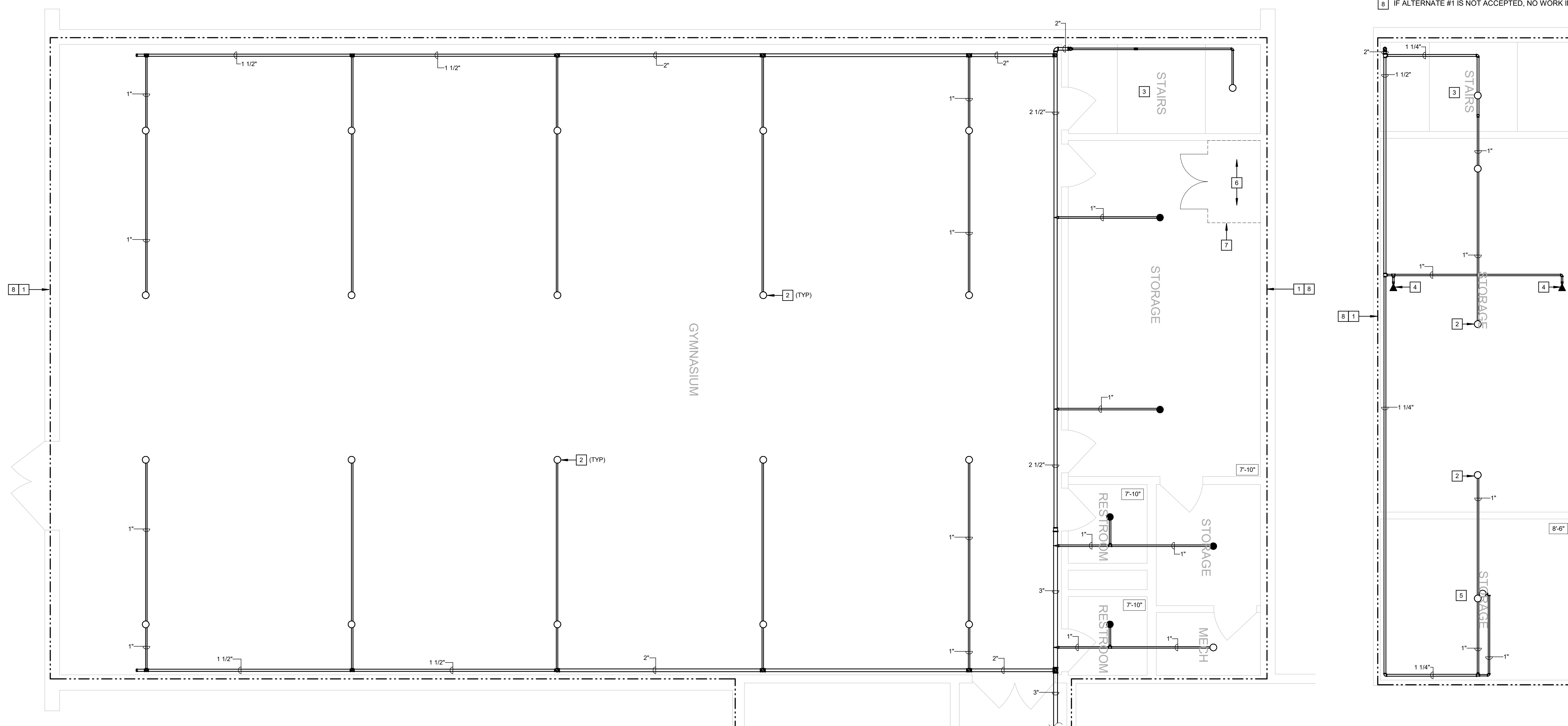
SHEET 13 OUT OF 17  
10/5/22

**GENERAL NOTES:**

- REFER TO SHEET FP0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.
- PIPE SIZES SHOWN ON PLANS ARE TO ASSIST IN BIDDING PURPOSES ONLY. PIPE SIZES SHOWN ARE DETERMINED BY PIPE SCHEDULE METHOD AS NOTED IN NFPA 13.

**KEYED NOTES:**

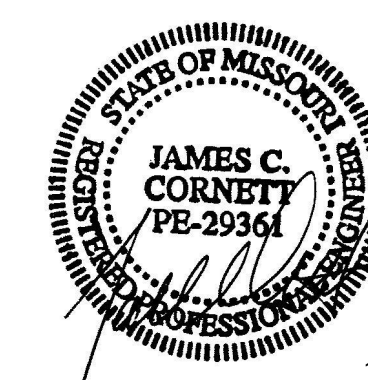
- PROVIDE THE DESIGN AND INSTALLATION OF A COMPLETE AND FUNCTIONAL AUTOMATIC DRY FIRE PROTECTION SYSTEM IN THE AREA INDICATED. FIRE PROTECTION SYSTEM(S) SHALL BE DESIGNER PER NFPA 13 AND IBC REQUIREMENTS FOR A FULLY SPRINKLERED BUILDING. PROVIDE ALL SPRINKLERS, PIPING, HANGERS, ETC. AND COORDINATE LOCATIONS, PIPE ROUTING, SCHEDULING, AND ALL OTHER INSTALLATION REQUIREMENTS WITH OTHER TRADES AND EXISTING CONDITIONS.
- UPRIGHT SPRINKLERS SHALL HAVE A LISTED AND APPROVED WIRE GUARD FOR PROTECTION. TYP ALL.
- PROVIDE SPRINKLER PROTECTION AT THE TOP AND BENEATH THE FIRST ACCESSIBLE LANDING PER NFPA 13, SECTION 8.15.3.2.1, 2016 EDITION.
- PROVIDE SPRINKLER PROTECTION BENEATH DUCTWORK EXCEEDING 4FT IN WIDTH PER NFPA 13, 8.6.5.3.3, 2016 EDITION.
- STORAGE ROOM HAS A PLYWOOD LID. NO STORAGE LOCATED ON TOP OF LID. SPRINKLER ABOVE AND BELOW AS SHOWN.
- LOCATION OF WATER ENTRANCE AND RISER IF ONLY ALTERNATE #1 IS ACCEPTED. SEE SHEET FP3.1 FOR LOCATION IF ALTERNATE #1 AND ALTERNATE #2 IS ACCEPTED.
- IF ONLY ALTERNATE #1 IS ACCEPTED: PROVIDE A SECURE CHAIN LINK FENCE AROUND SPRINKLER RISER AND EQUIPMENT. PROVIDE (2) SINGLE-SWING 2FT GATES FOR A TOTAL 4'-0" CLEARANCE AREA FOR ACCESS AND MAINTENANCE OF EQUIPMENT. GATE SHALL SWING OUT OF ENCLOSURE TO PREVENT DAMAGE TO THE SPRINKLER RISER FROM THE GATE. COORDINATE WITH OWNER FOR LOCK REQUIREMENTS.
- IF ALTERNATE #1 IS NOT ACCEPTED, NO WORK IN THIS AREA.



FIRE PROTECTION MULTI-PURPOSE LEVEL 1 PLAN - NORTH  
SCALE: 1/4" = 1'-0"  
NORTH

FIRE PROTECTION MULTI-PURPOSE LEVEL PLATFORM PLAN  
SCALE: 1/4" = 1'-0"  
NORTH

SSC JOB# 2021284\_BID DOCUMENTS



10/5/22

JAMES C. CORNETT  
MO LIC# PE-29364 EXP. 12/31/23



18207 Edison Avenue  
Chesterfield, Missouri 63005  
Phone: (636) 530-7770 Fax: (636) 530-7877  
Missouri Certificate of Authority #NC 001244



THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

OFFICE OF  
ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT,  
DESIGN AND  
CONSTRUCTION  
DIVISION OF YOUTH  
SERVICES

CAMP AVERY - FIRE  
SPRINKLER SYSTEM

198 AVERY LN  
TROY, MO 63379

PROJECT # H2001-01  
SITE # 7719  
FACILITY # 8877719001

REVISION: ADDENDUM #1  
DATE: 11/04/22  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 10/5/22

CAD DWG FILE: -  
DRAWN BY: LMM  
CHECKED BY: JCC  
DESIGNED BY: LMM

SHEET TITLE:  
FIRE PROTECTION  
MULTIPURPOSE 1ST  
FLOOR PLAN - SOUTH

SHEET NUMBER:

FP3.3

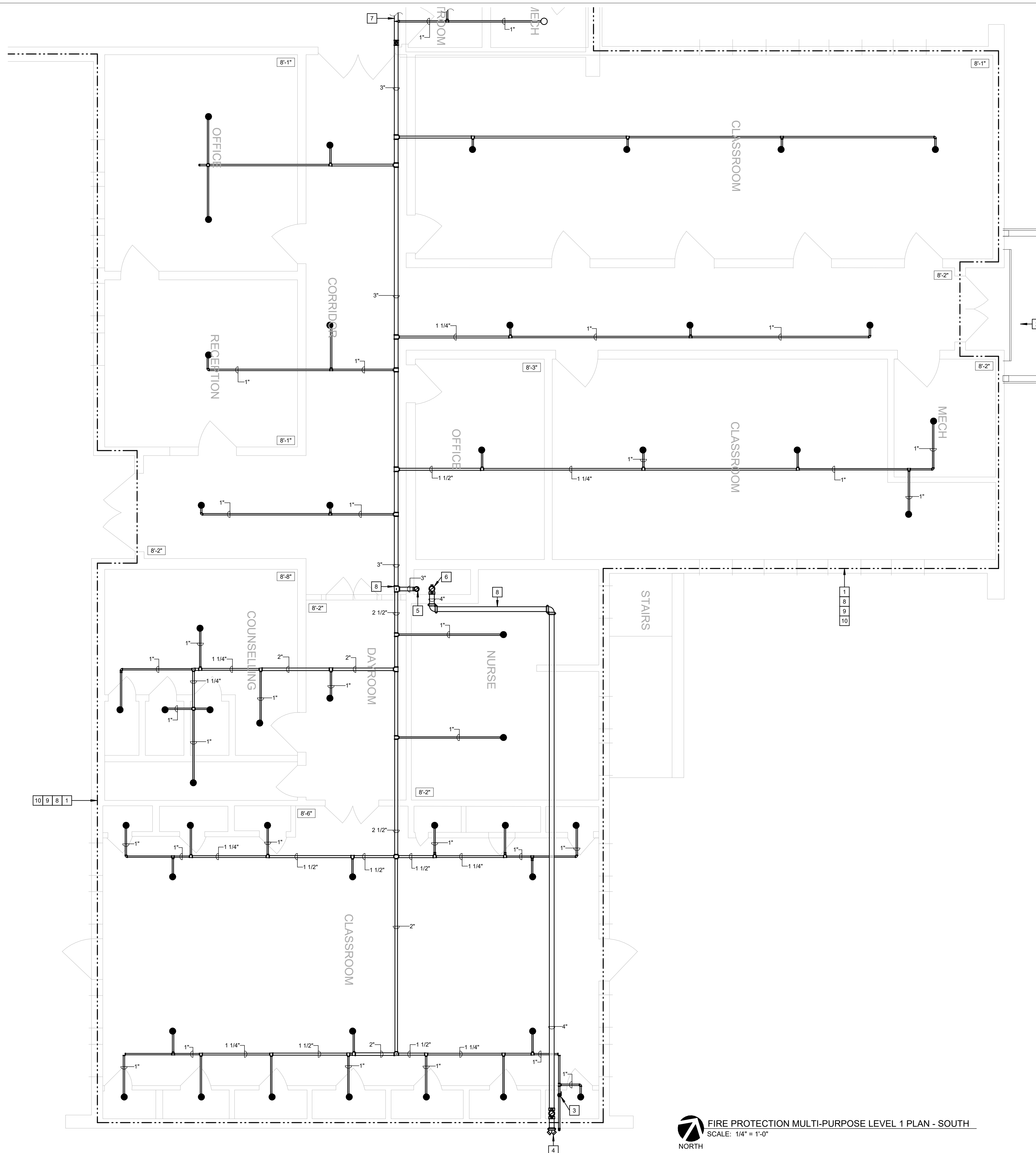
SHEET 14 OUT OF 17  
10/5/22

**GENERAL NOTES:**

- REFER TO SHEET FP0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.
- PIPE SIZES SHOWN ON PLANS ARE TO ASSIST IN BIDDING PURPOSES ONLY. PIPE SIZES SHOWN ARE DETERMINED BY PIPE SCHEDULE METHOD AS NOTED IN NFPA 13.

**KEYED NOTES:**

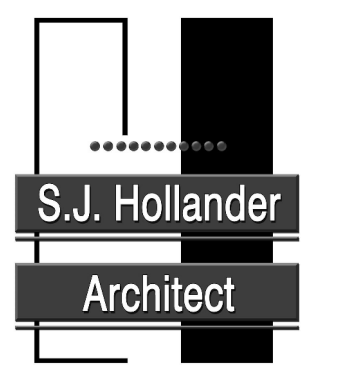
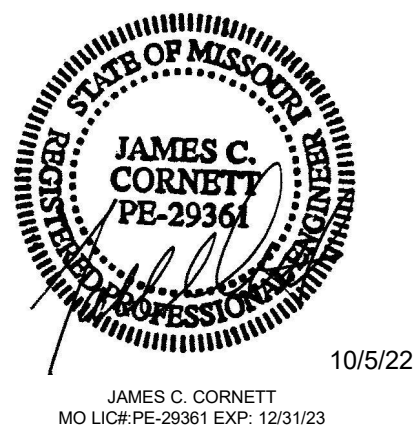
- PROVIDE THE DESIGN AND INSTALLATION OF A COMPLETE AND FUNCTIONAL AUTOMATIC DRY FIRE PROTECTION SYSTEM IN THE AREA INDICATED. FIRE PROTECTION SYSTEM(S) SHALL BE DESIGNER PER NFPA 13 AND IBC REQUIREMENTS FOR A FULLY SPRINKLERED BUILDING. PROVIDE ALL SPRINKLERS, PIPING, HANGERS, ETC. AND COORDINATE LOCATIONS, PIPE ROUTING, SCHEDULING, AND ALL OTHER INSTALLATION REQUIREMENTS WITH OTHER TRADES AND EXISTING CONDITIONS.
- SEE SHEET FP2.0 FOR DORMITORY SPRINKLER SYSTEM INFORMATION.
- REMOTE INSPECTOR'S TEST AND DRAIN SHALL BE INSTALLED WITHIN EXISTING CLOSET. VALVE SHALL BE LOCKABLE TO PREVENT TAMPERING AND PROVIDE PROTECTIVE CAGE AROUND SITE GLASS.
- PROVIDE A SIAMESE 4"x2-1/2"x2-1/2" FIRE DEPARTMENT CONNECTION. COORDINATE FINAL LOCATION WITH AHJ.
- PIPING MAIN DOWN TO FLOOR BELOW. SEE SHEET FP3.1 FOR CONTINUATION.
- FIRE DEPARTMENT CONNECTION PIPING FROM FLOOR BELOW. SEE SHEET FP3.1 FOR CONTINUATION.
- SEE SHEET FP3.2 FOR CONTINUATION.
- ALL PIPING SHALL BE LOCATED IN THE COLD ATTIC SPACE. NO PIPING SHALL BE INSTALLED BELOW THE ATTIC EXCEPT WHERE CONCEALED BY DROP CEILINGS OR WHERE LOCATED WITHIN A MECHANICAL ROOM.
- SPRINKLERS ARE REQUIRED WITHIN THE COLD ATTIC. EXTEND DRY SYSTEM PIPING WITHIN ATTIC TO PROTECT ATTIC SPACE AS NECESSARY.
- IF ALTERNATE #2 IS NOT ACCEPTED, NO WORK IN THIS AREA.



FIRE PROTECTION MULTI-PURPOSE LEVEL 1 PLAN - SOUTH  
SCALE: 1/4" = 1'-0"  
NORTH

SSC JOB# 2021284\_BID DOCUMENTS





THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

OFFICE OF  
ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT,  
DESIGN AND  
CONSTRUCTION  
DIVISION OF YOUTH  
SERVICES

CAMP AVERY - FIRE  
SPRINKLER SYSTEM

198 AVERY LN  
TROY, MO 63379

PROJECT # H2001-01  
SITE # 7719  
FACILITY # 8877719001;  
8877719002;887719004

REVISION: ADDENDUM #1  
DATE: 11/04/22  
REVISION:  
DATE:  
REVISION:  
DATE:  
ISSUE DATE: 10/5/22

CAD DWG FILE: -  
DRAWN BY: SSC  
CHECKED BY: BDS  
DESIGNED BY: SSC

SHEET TITLE:  
ELECTRICAL SITE PLAN

SHEET NUMBER:

E1.0

SHEET 17 OUT OF 17  
10/5/22

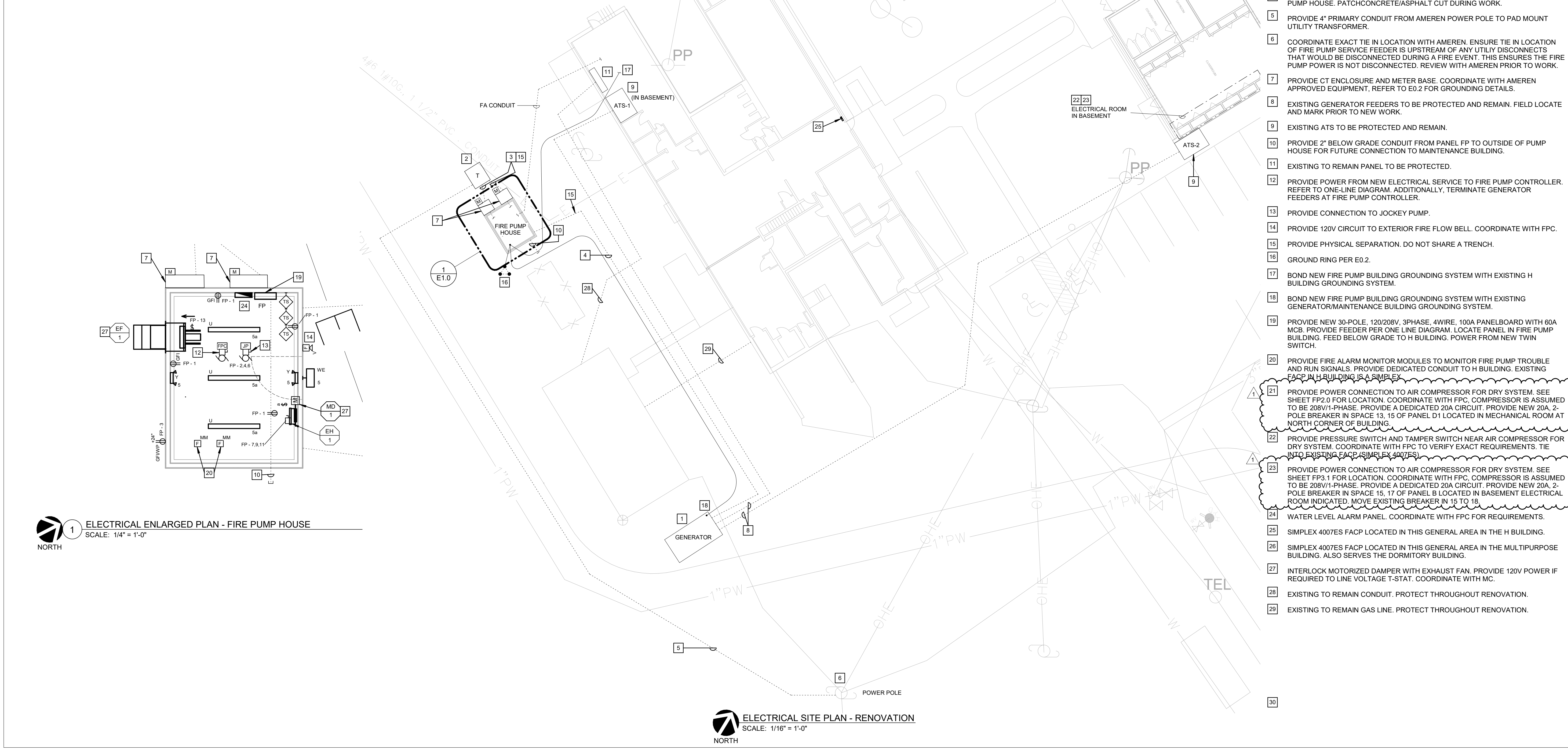
**ELECTRICAL GENERAL NOTES**

- REFER TO SHEET E0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.
- EC SHALL FIELD VERIFY EXISTING POLES, MANHOLES, SPARE CONDUIT, RIGHTS-OF-WAY, UTILITIES, AND BUILDING LOCATIONS PRIOR TO STARTING WORK. NOTIFY ENGINEER IMMEDIATELY IF DISCREPANCIES EXIST.
- PROVIDE 1800# MULETAPE IN ALL NEW CONDUITS, INTERDUCTS AND IN ALL CONDUITS FOR NEW CABLE RUNS.
- EC SHALL COORDINATE EXACT LOCATIONS, REQUIREMENTS, METERING AND TERMINATIONS WITH UTILITY PROVIDERS PRIOR TO BID.
- COORDINATE ALL UNDERGROUND ELECTRICAL WORK AND UTILITY TIE-INS WITH UTILITY PROVIDERS AND WORK OF OTHER TRADES.
- UNDERGROUND FACILITY STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDED INFORMATION. THEREFORE, THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. VERIFICATION OF LOCATION OF ALL UNDERGROUND STRUCTURES AND FACILITIES EITHER SHOWN OR NOT SHOWN ON THESE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL IN-GROUND CONDUITS SHALL BE 1" MINIMUM, SCHEDULE 40 PVC, UNLESS NOTED OTHERWISE.
- ELECTRICAL CONTRACTOR SHALL PROTECT AND EXTEND EXISTING SERVICES TO EXISTING BUILDINGS TO MAINTAIN CONTINUITY OF SERVICE. REROUTE EXISTING SERVICES AS REQUIRED TO AVOID CONSTRUCTION AND WORK OF OTHER TRADES.
- ALL UNDERGROUND AND EXTERIOR CONDUCTORS SHALL BE TYPE "XHHW-2".
- EC AND FPC SHALL COORDINATE THE LOCATIONS OF ALL EQUIPMENT BEFORE INSTALLATION.

**ELECTRICAL KEYED NOTES**

- EXISTING GENERATOR; PROVIDE NEW BREAKER PER ONE-LINE DIAGRAM.
- PROVIDE CONCRETE PAD FOR UTILITY TRANSFORMER. COORDINATE WITH AMEREN.
- PROVIDE SECONDARY FEEDER FROM TRANSFORMER TO CT CABINET. REFER TO ONE-LINE DIAGRAM.
- PROVIDE FEEDERS BELOW GRADE FROM EXISTING GENERATOR TO NEW FIRE PUMP HOUSE. PATCH CONCRETE/ASPHALT CUT DURING WORK.
- PROVIDE 4" PRIMARY CONDUIT FROM AMEREN POWER POLE TO PAD MOUNT UTILITY TRANSFORMER.
- COORDINATE EXACT TIE IN LOCATION WITH AMEREN. ENSURE TIE IN LOCATION OF FIRE PUMP SERVICE FEEDER IS UPSTREAM OF ANY UTILITY DISCONNECTS THAT WOULD BE DISCONNECTED DURING A FIRE EVENT. THIS ENSURES THE FIRE PUMP POWER IS NOT DISCONNECTED. REVIEW WITH AMEREN PRIOR TO WORK.
- PROVIDE CT ENCLOSURE AND METER BASE. COORDINATE WITH AMEREN APPROVED EQUIPMENT, REFER TO E0.2 FOR GROUNDING DETAILS.
- EXISTING GENERATOR FEEDERS TO BE PROTECTED AND REMAIN. FIELD LOCATE AND MARK PRIOR TO NEW WORK.
- EXISTING ATS TO BE PROTECTED AND REMAIN.
- PROVIDE 2" BELOW GRADE CONDUIT FROM PANEL FP TO OUTSIDE OF PUMP HOUSE FOR FUTURE CONNECTION TO MAINTENANCE BUILDING.
- EXISTING TO REMAIN PANEL TO BE PROTECTED.
- PROVIDE POWER FROM NEW ELECTRICAL SERVICE TO FIRE PUMP CONTROLLER. REFER TO ONE-LINE DIAGRAM. ADDITIONALLY, TERMINATE GENERATOR FEEDERS AT FIRE PUMP CONTROLLER.
- PROVIDE CONNECTION TO JOCKEY PUMP.
- PROVIDE 120V CIRCUIT TO EXTERIOR FIRE FLOW BELL. COORDINATE WITH FPC.
- PROVIDE PHYSICAL SEPARATION. DO NOT SHARE A TRENCH.
- GROUND RING PER E0.2.
- BOND NEW FIRE PUMP BUILDING GROUNDING SYSTEM WITH EXISTING H BUILDING GROUNDING SYSTEM.
- BOND NEW FIRE PUMP BUILDING GROUNDING SYSTEM WITH EXISTING GENERATOR/MAINTENANCE BUILDING GROUNDING SYSTEM.
- PROVIDE NEW 30-POLE, 120/208V, 3PHASE, 4WIRE, 100A PANELBOARD WITH 60A MCB. PROVIDE FEEDER PER ONE LINE DIAGRAM. LOCATE PANEL IN FIRE PUMP BUILDING. FEED BELOW GRADE TO H BUILDING. POWER FROM NEW TWIN SWITCH.
- PROVIDE FIRE ALARM MONITOR MODULES TO MONITOR FIRE PUMP TROUBLE AND RUN SIGNALS. PROVIDE DEDICATED CONDUIT TO H BUILDING. EXISTING FACP IN H BUILDING IS A SIMPLEX.
- PROVIDE POWER CONNECTION TO AIR COMPRESSOR FOR DRY SYSTEM. SEE SHEET FP2.0 FOR LOCATION. COORDINATE WITH FPC. COMPRESSOR IS ASSUMED TO BE 208V/1-PHASE. PROVIDE A DEDICATED 20A CIRCUIT. PROVIDE NEW 20A, 2-POLE BREAKER IN SPACE 13, 15 OF PANEL D1 LOCATED IN MECHANICAL ROOM AT NORTH CORNER OF BUILDING.
- PROVIDE PRESSURE SWITCH AND TAMPER SWITCH NEAR AIR COMPRESSOR FOR DRY SYSTEM. COORDINATE WITH FPC TO VERIFY EXACT REQUIREMENTS. TIE INTO EXISTING FACP (SIMPLEX 4007ES).
- PROVIDE POWER CONNECTION TO AIR COMPRESSOR FOR DRY SYSTEM. SEE SHEET FP3.1 FOR LOCATION. COORDINATE WITH FPC. COMPRESSOR IS ASSUMED TO BE 208V/1-PHASE. PROVIDE A DEDICATED 20A CIRCUIT. PROVIDE NEW 20A, 2-POLE BREAKER IN SPACE 15, 17 OF PANEL B LOCATED IN BASEMENT ELECTRICAL ROOM INDICATED. MOVE EXISTING BREAKER IN 15 TO 18.
- WATER LEVEL ALARM PANEL. COORDINATE WITH FPC FOR REQUIREMENTS.
- SIMPLEX 4007ES FACP LOCATED IN THIS GENERAL AREA IN THE H BUILDING.
- SIMPLEX 4007ES FACP LOCATED IN THIS GENERAL AREA IN THE MULTIPURPOSE BUILDING. ALSO SERVES THE DORMITORY BUILDING.
- INTERLOCK MOTORIZED DAMPER WITH EXHAUST FAN. PROVIDE 120V POWER IF REQUIRED TO LINE VOLTAGE T-STAT. COORDINATE WITH MC.
- EXISTING TO REMAIN CONDUIT. PROTECT THROUGHOUT RENOVATION.
- EXISTING TO REMAIN GAS LINE. PROTECT THROUGHOUT RENOVATION.

Branch Panel: FP														
Location:			Volts: 120/208 Wye			A.I.C. Rating: 65,000 SERIES								
Supply From:			Phases: 3			Mains Type: MCB								
Mounting: Surface			Wires: 4			Mains Rating: 200 A								
Enclosure: Type 1						MCB Rating: 200 A								
CKT NOTE S	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT NOTE S
	1	GENERAL RECEPTACLES	20 A	1	720 VA			276 VA				15 A	JOCKEY PUMP	2
	3	EXTERIOR GFI/WP RECEPTACLE	20 A	1		180 VA								4
	5	LIGHTING	20 A	1			188 VA							6
	7	ELECTRIC HEATER	20 A	3	1667 VA			0 VA				20 A	SPARE	8
--	9	--	--	--				0 VA				20 A	SPARE	10
--	11	--	--	--				0 VA				20 A	SPARE	12
	13	EXHAUST FAN	15 A	1	720 VA			0 VA				20 A	SPARE	14
	15							0 VA				20 A	SPARE	16
	17							0 VA				20 A	SPARE	18
	19							0 VA				20 A	SPARE	20
	21							0 VA				20 A	SPARE	22
	23							0 VA				20 A	SPARE	24
	25													26
	27													28
	29													30
	31													32
	33													34
	35													36
	37	SPD	30 A	3	0 VA									38
--	39	--	--	--				0 VA						40
--	41	--	--	--				0 VA						42
<b>Total Load:</b>			3383 VA			2123 VA			2123 VA					
<b>Total Amps:</b>			28 A			18 A			18 A					
Load Classification		Connected Load	Demand Factor	Estimated Demand	Panel Totals									
Lighting		118 VA	100.00%	118 VA	<b>Total Conn. Load:</b> 7628 VA									
Motor		829 VA	125.00%	1036 VA	<b>Total Est. Demand:</b> 7852 VA									
HVAC		720 VA	100.00%	720 VA	<b>Total Conn. Current:</b> 21 A									
Electric Heat		5000 VA	100.00%	5000 VA										
Receptacle		900 VA	100.00%	900 VA										
Lighting - Exterior		70 VA	125.00%	88 VA										



1 ELECTRICAL ENLARGED PLAN - FIRE PUMP HOUSE  
SCALE: 1/4" = 1'-0"  
NORTH

ELECTRICAL SITE PLAN - RENOVATION  
SCALE: 1/16" = 1'-0"  
NORTH

SSC JOB# 2021284\_BID DOCUMENTS