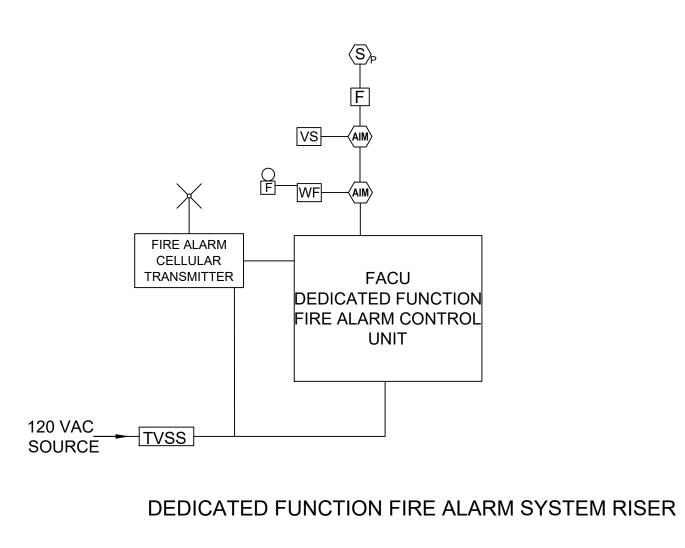
## REFERENCE CODES & STANDARDS:

- 1. 2018 SOUTH CAROLINA BUILDING CODE & FIRE CODE
- 2. 2016 NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE

## GENERAL NOTES:

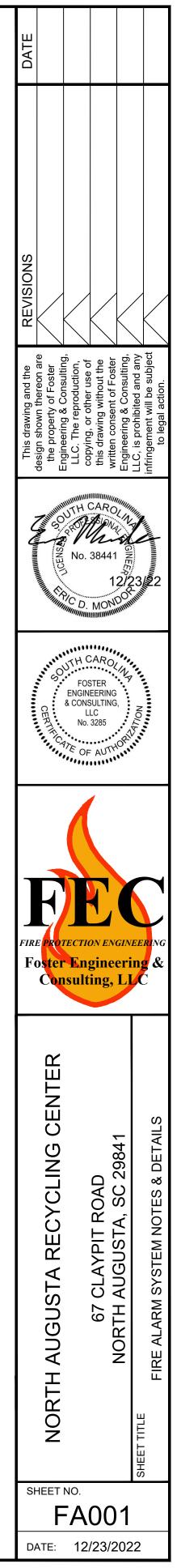
- 1. PROVIDE A NEW DEDICATED FUNCTION FIRE ALARM SYSTEM TO MONITOR THE SPRINKLER SYSTEM.
- 2. IT IS THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR TO INSTALL ALL EQUIPMENT AS SHOWN ON DRAWINGS AND THE REFERENCED CODES.
- 3. THE FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR ALL FIRE ALARM SYSTEM WIRING INCLUDING WIRING INSTALLED BY OTHER CONTRACTORS OR SUBCONTRACTORS. CONNECTION OF ALL FIRE ALARM DEVICES AND CONNECTION INSIDE THE CONTROL UNIT WILL BE DONE BY THE NICET CERTIFIED FIRE ALARM TECHNICIAN.
- 4. THESE PLANS DO NOT SHOW A COMPLETE DETAILED DESCRIPTION OF THE APPARATUS, MATERIALS, EQUIPMENT, ETC. REQUIRED TO MAKE A COMPLETE AND FUNCTIONAL FIRE ALARM SYSTEM. THE FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL REQUIRED MATERIAL, EQUIPMENT, COORDINATION, AND LABOR REQUIRED TO INSTALL A COMPLETE AND APPROVED FIRE ALARM SYSTEM.
- 5. AT THE COMPLETION OF THE SYSTEM TESTING, THE FIRE ALARM CONTRACTOR SHALL COMPLETE A RECORD OF COMPLETION PER NFPA 72, WITH APPROPRIATE SUPPLEMENTS.
- 6. ALL SIGNALING LINE CIRCUITS SHALL BE CLASS B PER NFPA 72.
- 7. ALL FIRE ALARM CIRCUITS WILL BE COLOR CODED AND THE COLORS MUST NOT CHANGE WITHIN THE CIRCUIT.
- 8. ANY DEVICES MOUNTED ON THE EXTERIOR OF THE BUILDING SHALL BE WEATHERPROOF WITH EXTERIOR RATED CONDUIT AND FITTINGS PER NFPA 70.



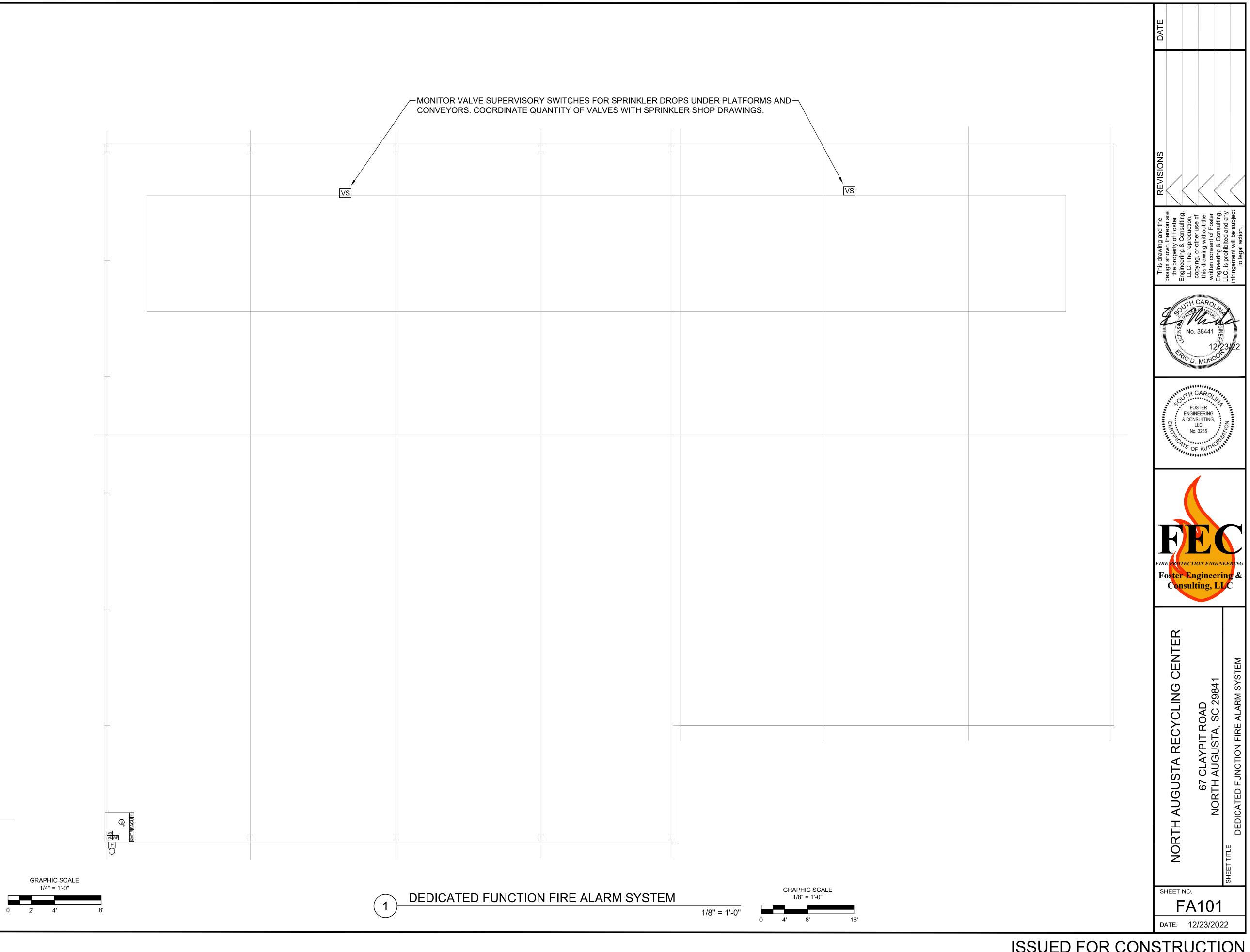
THIS SYSTEM RISER IS DIAGRAMMATIC AND DOES NOT INDICATE ACTUAL QUANTITES, REFER TO PLAN FOR ALL DEVICES AND LOCATIONS

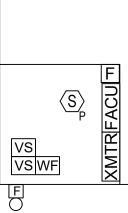
	DEDICATED FUNCTION FIRE ALARM SYSTEM I/O MATRIX	> SYSTEM ALARM	<b>Φ</b> TRANSMIT ALARM CONDITION TO MONITORING STATION	O SYSTEM SUPERVISORY	D TRANSMIT SUPERVISORY CONDITION TO MONITORING STATION	m SYSTEM TROUBLE	TRANSMIT TROUBLE CONDITION TO MONITORING STATION
1	MANUAL PULL STATION	Х	Х				
2	AREA SMOKE DETECTOR	Х	X				
3	SPRINKLER WATER FLOW SWITCH	Х	Х				
4							
5	SPRINKLER VALVE SUPERVISORY SWITCH			X	X		
6							
7	A/C POWER FAILURE					X	X
8						X	X
9						X	X
10	GROUND FAULT					X	X
11	SHORT CIRCUIT					Х	Х

FIRE ALARM SYMBOL LEGEND					
FACU	DEDICATED FUNCTION FIRE ALARM CONTROL UNIT				
XMTR	FIRE ALARM TRANSMITTER - CELLULAR				
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR				
F	FIRE ALARM PULL STATION				
(S) <sub>P</sub>	SMOKE DETECTOR - PHOTOELECTRIC				
VS	VALVE SUPERVISORY SWITCH				
WF	WATER FLOW SWITCH				
AIM	ADDRESSABLE INPUT MONITOR MODULE				
O F	ELECTRIC BELL PROVIDED BY SPRINKLER CONTRACTOR WIRED BY FIRE ALARM CONTRACTOR				



FIRE ALARM SYMBOL LEGEND						
DEDICATED FUNCTION FIRE ALARM CONTROL UNIT						
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SMOKE DETECTOR - PHOTOELECTRIC						
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WATER FLOW SWITCH						
ADDRESSABLE INPUT MONITOR MODULE						
ELECTRIC BELL PROVIDED BY SPRINKLER CONTRACTOR WIRED BY FIRE ALARM CONTRACTOR						





2



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

## **ISSUED FOR CONSTRUCTION**

CODES & STANDARDS:

- 2018 SOUTH CAROLINA BUILDING CODE & FIRE CODE
- 2016 NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS

**GENERAL NOTES:** 

- 1. ALL NEW WORK SHALL COMPLY WITH THE CODES AND STANDARDS REFERENCED
- 2. IT IS NOT THE INTENT OF THESE PLANS TO PROVIDE A COMPLETE DETAILED DESCRIPTION OF THE APPARATUS, MATERIALS, EQUIPMENT, ETC. WHICH IS REQUIRED TO MAKE A COMPLETE AND FUNCTIONAL INSTALLATION OF THIS SPECIFIC FIRE PROTECTION SYSTEM. IT SHALL BE THE RESPONSIBILITY OF THE SPRINKLER CONTRACTOR TO PROVIDE ALL REQUIRED MATERIAL AND EQUIPMENT AND PERFORM ALL WORK REQUIRED TO INSTALL A COMPLETE AND APPROVED INSTALLATION.
- 3. SPRINKLER SYSTEM DESIGN CRITERIA SEE FIRE SPRINKLER SYSTEM SPECIFICATION SHEET (FSSSS)

SCOPE OF WORK:

- 4. PROVIDE NEW DRY PIPE SPRINKLER SYSTEM FOR PROTECTION THROUGHOUT THE BUILDING.
- 5. PROVIDE SPRINKLERS UNDER PLATFORMS, CONVEYORS, AND OTHER OBSTRUCTIONS THAT MEET THE FOLLOWING:
- 5.1. MORE THAN 4 FT IN WIDTH
- 5.2. MORE THAN 2 FT CLEARANCE BELOW THE OBSTRUCTION TO THE FLOOR
- 6. PROVIDE WATER SHIELDS FOR SPRINKLERS UNDER OPEN GRATINGS.
- 7. PROVIDE SPRINKLER GUARDS FOR SPRINKLERS LESS THAN 7 FT ABOVE A WALKING SURFACE, OR OTHERWISE SUBJECT TO MECHANICAL DAMAGE.
- 8. SPRINKLER DROPS TO LOWER STRUCTURES REQUIRE FLEXIBLE COUPLINGS AT TOP AND BOTTOM REGARDLESS OF PIPE SIZE.

**BID OPTIONS:** 

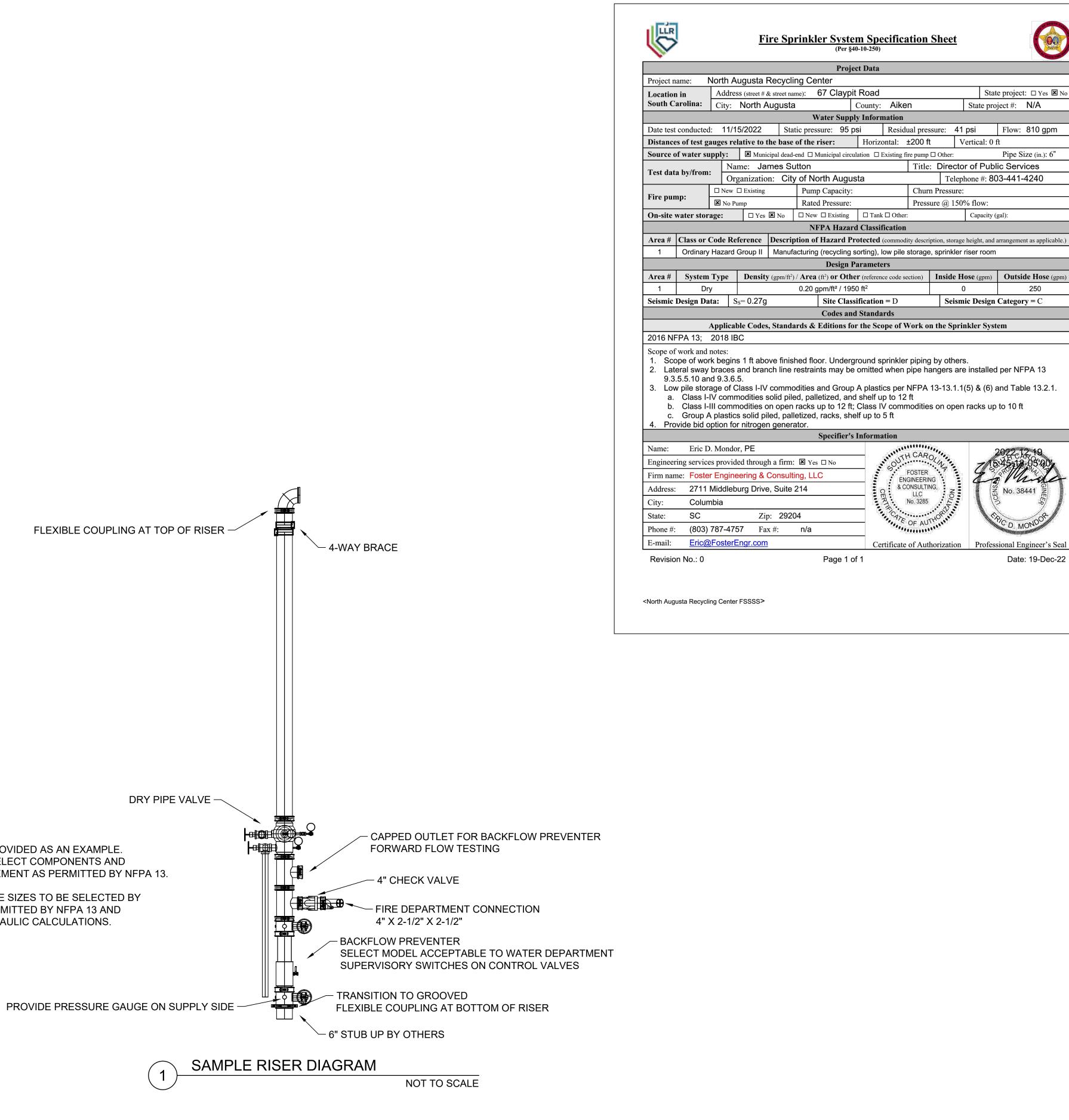
9. PROVIDE BID OPTION FOR NITROGEN GENERATOR.

ACCEPTANCE TESTING AND DOCUMENTATION:

- 10. PERFORM A HYDROSTATIC TEST AND AIR LEAKAGE TEST AS REQUIRED BY NFPA 13 25.2.1 AND 25.2.2.
- 11. PERFORM OPERATIONAL TESTS AS REQUIRED BY NFPA 13 25.2.3.
- 12. PERFORM FORWARD FLOW TEST OF BACKFLOW PREVENTER AS REQUIRED BY NFPA 13 25.2.5.
- 13. AT THE COMPLETION OF SYSTEM TESTING, THE SPRINKLER CONTRACTOR SHALL PROVIDE TO THE OWNER A CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR ALL NEWLY INSTALLED SYSTEM COMPONENTS.

RISER DIAGRAM IS PROVIDED AS AN EXAMPLE. CONTRACTOR MAY SELECT COMPONENTS AND DETERMINE ARRANGEMENT AS PERMITTED BY NFPA 13.

COMPONENT AND PIPE SIZES TO BE SELECTED BY CONTRACTOR AS PERMITTED BY NFPA 13 AND SUPPORTED BY HYDRAULIC CALCULATIONS.



(Per §40-10-250)						A STAT	THE ARE				
Project Data											
ng Center											
me): 67 Claypit Road				State	e project	∷ □ Yes	🗴 No				
County: Aiken	County: Aiken			State project #: N/A							
Water Supply Information											
tic pressure: 95 psi Residual p	pressur	re: 4	1 psi		Flow:	810 gpi	n				
of the riser: Horizontal: ±20	)0 ft	ft Vertical: 0 ft									
-end □ Municipal circulation □ Existing fire pump □ Other: Pipe Size (in.): 6'							"				
utton Title: Director of Public Services											
y of North Augusta Telephone #: 803-441-4240											
Pump Capacity: Cl	hurn P	n Pressure:									
Rated Pressure:Pressure @ 150% flow:											
□ New □ Existing □ Tank □ Other:		Capacity (gal):									
NFPA Hazard Classification											
otion of Hazard Protected (commodity description, storage height, and arrangement as applicable.)											
acturing (recycling sorting), low pile storage, sprinkler riser room											
Design Parameters											
/ Area (ft <sup>2</sup> ) or Other (reference code section	n) II	Inside Hose (gpm)		m)	Outside Hose (gpm)						
0.20 gpm/ft² / 1950 ft²		0			250						
Site Classification = D		Seismic Design Category = C									
Codes and Standards											
ards & Editions for the Scope of Work on the Sprinkler System											

