

NOTES

1. PROVIDE ALL MATERIALS AND LABOR NECESSARY FOR COMPLETE AND PROPERLY FUNCTIONING FIRE PROTECTION SYSTEMS.
2. WORK SHALL CONFORM TO OR MEET THE REQUIREMENTS OF:
 - A: INTERNATIONAL BUILDING CODE – 2018
 - B: INTERNATIONAL FIRE CODE – 2018
 - C: NFPA 13 – 2016
 - D: NFPA 24 – 2016
3. PROVIDE HYDRAULIC CALCULATIONS. CALCULATIONS SHALL INCLUDE 10 PSI SAFETY FACTOR UNTIL THE NEW WATER LINES ARE INSTALLED.
4. ALL PIPING SHALL BE PRESSURE TESTED TO 200 PSI FOR 2 HOURS IN ACCORDANCE WITH NFPA 13 – 2013, SECTION 10.10.2.2. THE AUTHORITY HAVING JURISDICTION MUST BE PRESENT FOR THE HYDROSTATIC TEST, ABOVE CEILING INSPECTION, AND ACCEPTANCE TEST.
5. COORDINATE WITH GENERAL CONTRACTOR TO ENSURE INSULATION IS INSTALLED IN ACCORDANCE WITH STATE REGULATIONS.
6. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO BE SCALED FOR DIMENSIONS.
7. ALL MATERIALS SHALL MEET THE REQUIREMENTS OF UL WHERE UL STANDARDS ARE ESTABLISHED FOR THOSE ITEMS. ALL ITEMS SHALL BE CLASSIFIED BY UL AS SUITABLE FOR THE PURPOSE USED.
8. ALL ITEMS SHALL BE NEW AND ALL MATERIALS/EQUIPMENT/DEVICES SHALL BE CURRENT PRODUCTS BY MANUFACTURERS REGULARLY ENGAGED IN THE PRODUCTION OF SUCH PRODUCTS.
9. COORDINATE LOCATION OF FIRE PROTECTION WORK WITH OTHER TRADES TO AVOID CONFLICTS AND INTERFERENCES. THE CEILING AND CONCEALED SPACES ARE EXTREMELY CONGESTED.
10. INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
11. COORDINATE AND OBTAIN PERMITS AND INSPECTIONS FROM AUTHORITY HAVING JURISDICTION.
12. PROVIDE OWNER WITH CERTIFICATE OF FINAL INSPECTION AND ACCEPTANCE FROM AUTHORITY HAVING JURISDICTION.
13. PROVIDE SEISMIC RESTRAINTS IN ACCORDANCE WITH NFPA 13 – 2013 AND IBC 2018. THE SYSTEM SHALL BE LIGHTED AS A SEISMIC RESTRAINT SYSTEM.
14. ALL BUILDING PENETRATIONS SHALL BE COORDINATED WITH ARCHITECT. SEE ARCHITECTURAL DRAWINGS FOR PENETRATION DETAILS.
15. COORDINATE TO ENSURE FIRE HYDRANT IS LOCATED WITHIN 100' OF THE FIRE DEPARTMENT CONNECTION.
16. COORDINATE EXACT LOCATION OF SPRINKLER SYSTEM PIPING WITH ALL OTHER TRADES TO ENSURE PIPING DOES NOT OBSTRUCT ANY MANUFACTURER'S REQUIRED CLEARANCES.
17. COORDINATE EXACT LOCATION OF ALL PIPING WITH MECHANICAL EQUIPMENT TO ENSURE MANUFACTURER'S REQUIRED CLEARANCES ARE MAINTAINED.
18. ALL INTERIOR PIPE HANGERS AND SEISMIC BRACING SHALL BE ZINC COATED ALL EXTERIOR PIPE HANGERS SEISMIC BRACING SHALL BE GALVANIZED STEEL.
19. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FROM THE BUILDING SUB-IN..
20. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE RISER IN COMPLIANCE WITH THE NFPA 2013 STANDARDS.
21. PROVIDE FLEXIBLE LOOP AS MANUFACTURED BY FLEX HOSE WHERE SPRINKLER PIPING CROSSES SEISMIC/EXPANSION JOINTS.
22. THE SPRINKLER SHOP DRAWINGS SHALL BE PREPARED BY A SOUTH CAROLINA LICENSED SPRINKLER CONTRACTOR. ALL DRAWINGS MUST SUBMITTED TO THE FIRE CODE OFFICIAL FOR PLAN REVIEW AND APPROVAL PRIOR TO ISSUANCE OF A FIRE SPRINKLER PERMIT. FIRE SPRINKLER WORK CANNOT BE STARTED PRIOR TO ISSUANCE OF THE REQUIRED PERMIT.
23. FIELD ROUTE TEST DRAIN TO OPPOSITE OR STORE DRAIN AND PROVIDE VACUUM BREAKER. COORDINATE TO ENSURE DISCHARGE WILL NOT CREATE A NUISANCE.
24. COORDINATE EXACT LOCATION OF TEST DRAIN & ACCESS DOOR WITH ARCHITECT DURING SPRINKLER SYSTEM DESIGN.
25. EACH SYSTEM SHALL BE PROVIDED WITH AN INSPECTORS TEST DRAIN. ALL PIPING IN EXPOSED AREAS TO BE INSTALLED AS HIGH AS POSSIBLE.
27. ALL SPRINKLER HEADS SHALL BE CONCEALED WHERE THERE ARE CEILINGES.
28. ALL SPRINKLER HEADS LESS THAN 7" A.F.F. SHALL BE PROVIDED WITH SPRINKLER GUARDS.
29. COORDINATE EXACT LOCATION OF SPRINKLER HEADS WITH ARCHITECT.
30. VERIFY ALL EXISTING PIPE SIZES. NOTIFY ENGINEER IF EXISTING AS BUILT PIPE SIZES VARY.

Fire Protection Sprinkler System Specification Sheet
(per § 40-410-250)

Project Data			
Project name: THE OPPORTUNITY CENTER			
Location in South Carolina:	Address (street # & street name): 8570 RIVERS AVE	City: North Charleston	County: Charleston
State project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		State project #: N/A	
Water Supply Information			
(flow test data must be less than 1 year old per § 40-10-250(A)(1))			
Date test conducted: -	Static pressure (psi): -	Residual pressure (psi): -	Flow (gpm): -
Distances of test gauges relative to the base of the riser: - Horizontal (ft): - Vertical (elevation difference in ft): -			
Source of water supply: <input type="checkbox"/> Municipal dead-end <input checked="" type="checkbox"/> Municipal circulation <input type="checkbox"/> Other		Pipe Size (in.): -	
Name: Orbb & Frazier		Title: Technician	
Organization: CHARLESTON WATER SYSTEM		Telephone #: (843) 727-6800	
Fire Pump Information		Pump Capacity: 500	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Churn Pressure: N/A	
(if applicable attach current pump test) <input type="checkbox"/> New <input checked="" type="checkbox"/> Existing		Rated Pressure: 60	
On-site Storage Tank Capacity: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> New <input type="checkbox"/> Existing		Tank capacity (gallons): 500	
NFPA Hazard Classification			
(attach continuation page when necessary)			
Area#	Class or Code Reference	Description of Hazard Protected (Commodity Description, Storage Height & Arrangement if Applicable)	
1	LIGHT	TRAINING OFFICE, BATHROOMS	
2	ORD GRP. II	STORAGE, ELECTRICAL ROOMS	
Design Parameters			
(attach continuation page when necessary)			
Area#	System Type	Design Density (gpm/ft ²)	Design Area (ft ²)
1	WET	0.1 gpm/ft ²	1500 ft ²
2	WET	0.2 gpm/ft ²	250
SEISMIC DESIGN DATA: 0.2, 5			
Codes and Standards			
(attach continuation page when necessary)			
APPLICABLE CODES, STANDARDS, AND REFERENCES: "2018 IBC", "2018 NFPA 13", ETC.) FOR THE SCOPE OF WORK ON THE SPRINKLER SYSTEM			
2018 NFPA 13, 2018 IBC, 2018 IF			
Scope of work includes: provide fire sprinkler system, U.S. from 1'-0" A.F.F., U.S. from top to 5'-0" outside, etc.) and notes (attach continuation page when necessary); SPRINKLER CONTRACTOR TO PROVIDE NEW SPRINKLER SYSTEM STARTING AT THE EXISTING BUILDING SUB IN.			
Specifier's Information			
Name: Aaron Tempal			
Engineering services provided through a firm: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Firm Name: EPIC Engineering, Inc.			
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State: South Carolina			
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Revision No.: 0		Page 1 of 1	
Signature: <i>Aaron Tempal</i>		Date: January 24, 2020	

SHEET ISSUE:
01/14/2020 Review Set
01/24/2020 Permit/ISS Set

PRINCIPAL IN CHARGE: ACT
PROJECT ENGINEER: ACT
DRAWN BY: RAD

SHEET TITLE:
**NOTES, LEGEND,
SCHEDULES**

PROJ. NO. 017348.00
MFS

SHEET NO.
FP001

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