

GENERAL NOTES (CONT.)

- THE FIRE SPRINKLER CONTRACTOR SHALL PREPARE DETAILED WORKING PLANS IN ACCORDANCE WITH NFPA 13, 2016 EDITION, CHAPTER 22. THE FIRE PROTECTION SYSTEM LAYOUT SHALL FOLLOW THE DESIGN GUIDELINES SET FORTH IN THESE FIRE PROTECTION ENGINEERING DOCUMENTS. THE FIRE PROTECTION SYSTEMS SHOW REPRESENT THE DESIGN INTENT OF THE ENGINEER OF RECORD. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE INSTALLATION WITH ALL OTHER TRADES. THE CONTRACTOR SHALL PROVIDE COMPLETE SPRINKLER SYSTEM LAYOUT DRAWINGS WITH ANY ADDITIONAL OFFSETS, SPRINKLERS OR SYSTEM COMPONENTS AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM AND TO AVOID CONFLICTS WITH OTHER TRADES.
- THE FIRE SPRINKLER CONTRACTOR SHALL OBTAIN THE ACCEPTANCE TESTS FROM THE LOCAL AUTHORITY. THE ACCEPTANCE TEST FOR THE OVERHEAD SPRINKLER SYSTEM PIPING SHALL BE IN ACCORDANCE WITH NFPA 13, CHAPTER 24, SECTION 24.1 USING THE MATERIAL AND TEST CERTIFICATE FOR ABOVEGROUND PIPING IN FIGURE 24.1. THE ACCEPTANCE TEST FOR THE UNDERGROUND PIPING SHALL BE IN ACCORDANCE WITH NFPA 13, 2016 EDITION, CHAPTER 10, SECTION 10.10 USING THE MATERIAL AND TEST CERTIFICATE FOR UNDERGROUND PIPING IN FIGURE 10.10.1.

OWNER NOTES:

IF REQUIRED BY THE LOCAL INSPECTOR'S INTERPRETATION OF THE INTERNATIONAL FIRE CODE, SECTION 2404.8, CONTRACTOR SHALL PROVIDE:
 • A WATER FLOW SWITCH ON THE PAINT BOOTH LOOP.

GENERAL NOTES

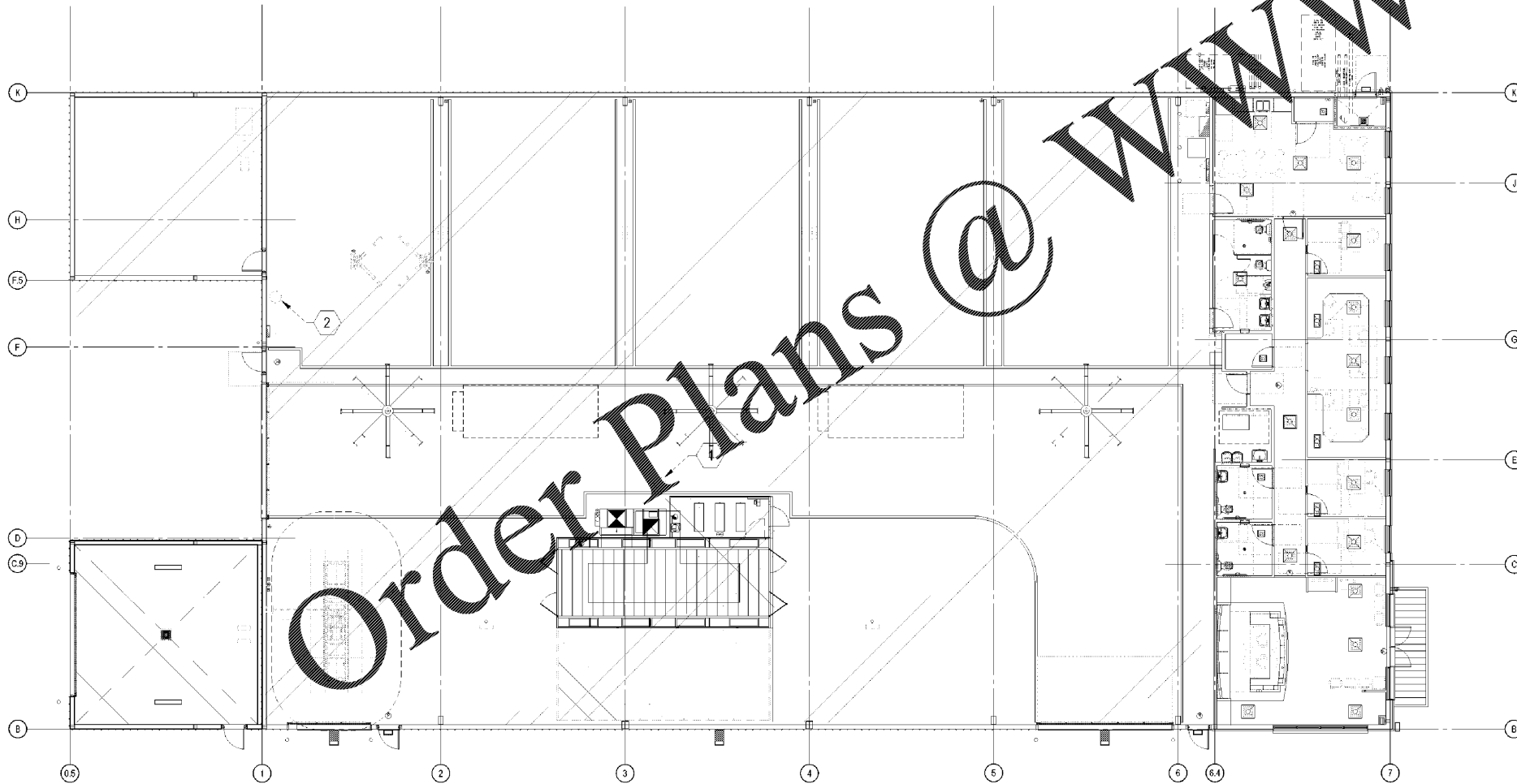
- THE POINT OF SERVICE IS INDICATED AT THE BACKFLOW PREVENTER. AT THIS POINT, THE SYSTEM IS DEDICATED SOLELY FOR FIRE PROTECTION PURPOSES. NO DOMESTIC WATER SHALL BE TAKEN FROM THE SYSTEM BEYOND THIS POINT FOR OTHER PURPOSES.
 - THE FOLLOWING ARE APPLICABLE STANDARDS:
 BUILDING CODE OF SOUTH CAROLINA, 2018 EDITION
 SOUTH CAROLINA FIRE CODE, 2016 EDITION
 NFPA 13, 2016 EDITION, INSTALLATION OF SPRINKLER SYSTEMS.
 NFPA 24, 2013 EDITION, STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES.
 NFPA 25, 2014 EDITION, INSPECTION, TESTING AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS.
 NFPA 33, 2011 EDITION, STANDARD FOR SPRAY APPLICATION USING FLAMMABLE OR COMBUSTIBLE MATERIALS.
 - CLASSIFICATIONS OF HAZARD OCCUPANCIES FOR THE AREAS OF DESIGN SHALL BE AS FOLLOWS:
 (CANOPY, CORRIDORS, RESTROOMS, OFFICES AND OTHER SIMILAR OCCUPANCIES) LIGHT HAZARD OCCUPANCY PER NFPA 13, 2016 EDITION.
 (BODY SHOP VEHICLE MAINTENANCE) ORDINARY HAZARD GROUP 2 PER NFPA 13, 2016 EDITION.
 - THE SPRINKLER SYSTEM SHALL BE WET PIPE SHALL BE HYDRAULICALLY CALCULATED PER NFPA 13, ACCORDING TO THE FOLLOWING AREA DENSITY REQUIREMENTS:
 - LIGHT HAZARD, 0.10 gpm/sq.ft. OVER THE MOST REMOTE 1500sq.ft. SPRINKLERS SHALL HAVE A TEMPERATURE RATING OF 155°F AND THE SPACING SHALL BE 225sq.ft. INCLUDE A FIRE HOSE ALLOWANCE OF 100gpm.
 - ORDINARY HAZARD GROUP 1 0.20 gpm/sq.ft. OVER THE MOST REMOTE 1500sq.ft. SPRINKLERS SHALL HAVE A TEMPERATURE RATING OF 155°F AND THE SPACING SHALL BE 130sq.ft. INCLUDE A FIRE HOSE ALLOWANCE OF 250gpm.
 - ORDINARY HAZARD GROUP 2 OCCUPANCY, 0.20 gpm/sq.ft. OVER THE MOST REMOTE 1500 sq.ft. SPRINKLERS SHALL HAVE A TEMPERATURE RATING OF 155°F AND THE SPACING SHALL BE 130sq.ft. INCLUDE A FIRE HOSE ALLOWANCE OF 250gpm.
- IF EXTENDED COVERAGE SPRINKLERS ARE USED, THE SPRINKLERS SHALL BE DESIGNED, HYDRAULICALLY CALCULATED AND INSTALLED PER THE MANUFACTURERS LISTINGS AND REQUIREMENTS.
- WATER SUPPLY: THIS BUILDING WILL BE SUPPLIED BY AN EXISTING UNDERGROUND WATER MAIN IN THE RIGHT OF WAY.
 - VALVE AND ALARM REQUIREMENTS: ALL CONTROL VALVES ON SPRINKLER RISERS AND FIRE PROTECTION BACKFLOW PREVENTERS SHALL HAVE A TAMPER SWITCH. THE FLOW SWITCH SHALL BE SET TO NOT ALARM WITH MINOR CITY WATER PRESSURE FLUCTUATIONS. HOWEVER, THE FLOW OF ONE SPRINKLER HEAD SHALL PRODUCE AN ALARM CONDITION BY TRIPPING THE FLOW SWITCH. ALL FLOW AND TAMPER SWITCHES SHALL BE CONNECTED TO THE BUILDING FIRE ALARM PANEL. FLOW SWITCHES SHALL ALSO SOUND THE ELECTRIC ALARM BELL ON THE OUTSIDE WALL. FIRE SPRINKLER CONTRACTOR SHALL VERIFY AND TEST PER NFPA 13, 2016 EDITION.
 - THE LOCAL WATER PURVEYOR IS REQUESTED TO ADVISE THE ENGINEER OF RECORD IF CONDITIONS EXIST IN THEIR WATER SUPPLY THAT COULD LEAD TO MIC. SO THAT THE ENGINEER CAN DESIGN CORRECTIVE MEASURES.
 - BACKFLOW PREVENTER AND METERING SPECIFICATIONS SHALL MEET OR EXCEED REQUIREMENTS OF THE LOCAL WATER PURVEYOR.
 - YARD AND INTERIOR FIRE PROTECTION COMPONENTS: PRODUCT DATA SHEETS SHALL BE SUBMITTED BY THE SPRINKLER CONTRACTOR ALONG WITH THEIR SHOP DRAWINGS. ALL FIRE PROTECTION DEVICES AND COMPONENTS SHALL BE UL LISTED AND FM APPROVED.

DRAWING NOTES:

- PROVIDE FIRE SPRINKLER PROTECTION UNDER OVER-HEAD DOORS, IN ACCORDANCE WITH NFPA 13.
- PROVIDE LOW POINT DRAINS IN ACCORDANCE WITH NFPA 13.

FIRE PROTECTION GENERAL NOTES

- PROVIDE COMPLETE FIRE SPRINKLER PROTECTION THROUGHOUT THE BUILDING, INCLUDING IN SPRAY PAINT BOOTH.
 - FIRE SPRINKLER PROTECTION SHALL BE PROVIDED OVER THE SPRAY PAINT BOOTH AT CEILING, MAINTAINING THE SAME PROTECTION AS FOR THE SHOP FLOOR.
 - ALL FIRE SPRINKLERS SHALL BE IN ACCORDANCE WITH NFPA 13.
 - ALL WORK SHALL BE DONE IN ACCORDANCE WITH NFPA 13.
 - ALL HANGERS & MATERIALS TO BE IN ACCORDANCE WITH NFPA.
 - ALL CROSS MAINS & RISERS TO BE SCHEDULE 10 BLACK PIPE, U.N.O. ALL BRANCH LINE PIPING TO BE SCHEDULE 10 OR 40 BLACK PIPE, U.N.O.
 - PIPE TO HANG AT APPROXIMATELY 12" ABOVE FINISHED CEILING. COORDINATE WITH ALL STRUCTURAL ELEMENTS, OTHER TRADES AND ABIDE BY ALL OBSTRUCTION RULES PER NFPA 13 AND FIRE SPRINKLER MANUFACTURERS' SPECIFICATIONS.
 - IF USED, UPRIGHT SPRINKLERS TO BE LOCATED BETWEEN 1" AND 12" BELOW ROOF DECK.
 - SPRINKLER HEAD SPACING IS PER NFPA 13, 2013 EDITION. SPRINKLERS SHALL BE CENTERED IN CEILING TILES AND WITH LAY-IN TILES AND VISUALLY ALIGNED IN AREAS WITH SMOOTH CEILINGS.
 - THE GENERAL CONTRACTOR SHALL PROVIDE, OR HAVE PROVIDED, A SET OF COORDINATION DRAWINGS FOR ALL SYSTEMS AND FEATURES THAT OCCUR ABOVE THE CEILING PLANE. THE COORDINATION DRAWINGS SHALL INCLUDE, BUT NOT BE LIMITED TO, STRUCTURAL MEMBERS, HVAC DUCTWORK, HYDRONIC PIPING, PLUMBING SUPPLY AND WASTE PIPING, FIRE PROTECTION PIPING, ELECTRICAL POWER CONDUITS AND RACERAYS, AND ELECTRICAL LOW VOLTAGE CONDUITS AND RACERAYS. THE COORDINATION DRAWINGS SHALL PROVIDE, APPROPRIATE AND COORDINATE SPACE FOR ALL SYSTEMS, HORIZONTALLY AND VERTICALLY ABOVE THE CEILING PLANE TO THE STRUCTURAL DECK ABOVE ALLOWING EACH TRADE CONTRACTOR THE SPACE TO PROPERLY EXECUTE HIS PORTION OF THE WORK.
 - ALL GROOVED FITTINGS TO BE "VICITALUC" FITTINGS OR APPROVE EQUAL.
 - ALL PENETRATIONS THROUGH FIRE OR SMOKE RATED WALLS ARE TO BE PATCHED AND SEALED PER THE APPLICABLE UL LISTED DETAIL THAT CORRESPONDS WITH THE RATING OF THE WALL.
 - ALL DIMENSIONS TO BE VERIFIED DURING FIELD CHECK OF SPRINKLER SYSTEM.
 - THE FOLLOWING ARE ACCEPTABLE SPRINKLER HEAD MATERIAL MANUFACTURERS:
 - RELIABLE
 - TYCO
 - VICITALUC
 - VIKING
- SPRINKLER SYSTEMS INCLUDING ALL ASSOCIATED FIRE PROTECTION SIGNALS, SHALL BE SUPERVISED BY AN APPROVED CENTRAL PROPRIETARY, AUXILIARY OR REMOTE STATION SYSTEM IN ACCORDANCE WITH NFPA.
- THE PROTECTION SHOP DRAWINGS, HYDRAULIC CALCULATIONS, AND MATERIAL DATA SUBMITTALS ARE TO BE SUBMITTED TO AUTHORITY HAVING JURISDICTION, ARCHITECT AND ENGINEER OF RECORD FOR REVIEW AND APPROVAL.
 - CORROSION PROTECTION FOR ALL UNDERGROUND BOLTED JOINT ACCESSORIES SHALL BE CLEANED AND THOROUGHLY COATED WITH ZINC RICH OR OTHER CORROSION-RETARDING MATERIAL AFTER INSTALLATION IN ACCORDANCE WITH NFPA 13, 2013 EDITION, SECTION 10.3.5.2.
 - THE UNDERGROUND MAIN STARTING AT THE PUBLIC WATER UTILITY POINT OF CONNECTION HAS BEEN DESIGNED TO NFPA 24. INSTALLATION AND TESTING SHALL BE IN ACCORDANCE WITH NFPA 24.
 - ALL FIRE SPRINKLER COMPONENTS ARE TO BE RATED FOR THE MAXIMUM SYSTEM WORKING PRESSURE TO WHICH THEY ARE EXPOSED IN ACCORDANCE WITH NFPA 13, 2013 EDITION, SECTION 6.1.3.
 - THE COMPONENTS OF THE FIRE PROTECTION SYSTEM(S) FURNISHED UNDER THIS DIVISION OF THE SPECIFICATIONS SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE THEREOF, EITHER FOR BENEFICIAL USE OR FINAL ACCEPTANCE, WHICHEVER IS EARLIER, AGAINST DEFECTIVE MATERIALS, DESIGN AND WORKMANSHIP. UPON RECEIPT OF NOTICE FROM THE ARCHITECT OF FAILURE OF ANY PART OF THE EQUIPMENT DURING THE GUARANTEE PERIOD, THE AFFECTED PART OR PARTS SHALL BE REPLACED PROMPTLY WHICH INCLUDES REMOVING THE DEFECTIVE PART OR PARTS, REPLACING AND INSTALLING THE NEW PART OR PARTS AND AT THE EXPENSE OF THE CONTRACTOR.
 - OPERATING AND MAINTENANCE INSTRUCTIONS, PRINTED AND BOUND IN HARD COVER THREE-RING LOOSE LEAF NOTEBOOKS, SHALL BE PROVIDED TO THE OWNER.
 - AS-BUILT DRAWINGS SHALL BE PROVIDED TO THE OWNER AND ENGINEER OF RECORD.



KEY NOTES

- PAINT BOOTH RISER
- DRY-PIPE RISER FOR OUTSIDE SPRINKLERS

1 Fire Protection Site Plan
 Scale: None

- Light Hazard
- Ordinary Group 1
- Ordinary Group 2
- Extra Hazard Group 2 (Spray Paint Booth)

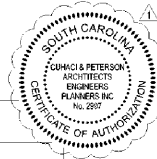
FIRE PROTECTION SYMBOL LEGEND

SYMBOL	DESCRIPTION
	- CONTROL VALVE WITH TAMPER SWITCH
	- FLOW SWITCH
	- SPRINKLER AND DRAIN RISER
	- SPRINKLER PIPING
	- FIRE DEPARTMENT CONNECTION
	- REVISION REFERENCE

NOTE: SOME SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT

DRAWING LIST

NO.	TITLE
FP0.1	Fire Protection General Information
FP1.0	Fire Protection Details



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Cross Development
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 Carrollton, TX 75010

PROJECT NAME
Caliber Collision Five Forks (161)
 1215 East Ballew Rd.
 Greenville, SC 29607

SHEET TITLE
Fire Protection General Information

PROJECT NO. 220067	DATE 07/08/2020	DRAWN FD	CHECKED AV
RELEASE ▲ PERMIT COMMENTS RESPONSE - 08/22/2020			

FP0.1

BID SET 10/28/2020