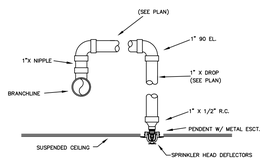
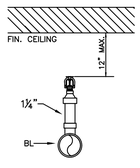
M.C.S. FIRE PROTECTION NOTES

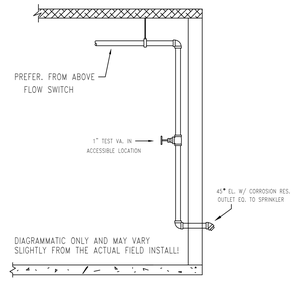
- PLANS CONFORM TO THE 2013 EDITION OF NFPA 13, 2013 EDITION AND LOCAL A.H.J. REQUIREMENTS.
- ALL THREADED PIPE 2" & SMALLER IS SCH 40. ALL GROOVED PIPE 1-1/2" & LARGER IS SCH 10
- ALL FITTINGS PER NFPA 13 TO BE GROOVED FITTINGS AND COUPLINGS FOR SCH. 10 PIPE AND GROOVED, CAST OR MALLEABLE IRON SCREWED FITTINGS FOR SCH. 40 PIPE.
- FOR BUILDING OCCUPANCY, ALL SPRINKLERS SHALL HAVE THEIR DEFLECTORS INSTALLED BELOW ROOF AND/OR CEILING ASSEMBLIES BETWEEN 1" TO 12" MAXIMUM, DEPENDING ON THE TYPE OF ROOF AND/OR CEILING CONSTRUCTION CLASSIFICATION.
- OTHERS ARE RESPONSIBLE FOR MAINTAINING BUILDING TEMPERATURE AT ABOVE FREEZING.
- THE UNSUPPORTED LENGTH BETWEEN THE END SPRINKLER AND THE LAST HANGER SHALL NOT BE MORE THAN 36" FOR 1" PIPE, OR 48" FOR 1-1/4" PIPE.
- ALL ARMOVERS GREATER THAN 24" SHALL BE SUPPORTED BY A HANGER.
- 1" TO 4" PIPE TO BE SUPPORTED WITH 3/8" ALL THREAD ROD AND 3/8" HANGER ASSEMBLIES. 5" TO 6" PIPE TO BE SUPPORTED WITH 1/2" ALL THREAD ROD AND 1/2" HANGER ASSEMBLIES.
- CONTROL VALVES TO BE PROVIDED WITH TAMPER SWITCHES INSTALLED BY M.C.S. & CONNECTED TO FIRE DEPARTMENT REMOTE STATION. WIRING BY OTHERS.
- NO COMBUSTIBLE CONSTRUCTION WILL BE ABOVE THE CEILINGS, BELOW FLOORS, OR IN ANY CONCEALED SPACES UNLESS PROTECTED BY SPRINKLERS.
- IF HORIZONTAL OVERHEAD DOORS ARE PROVIDED, SPRINKLER PROTECTION SHALL BE PROVIDED BOTH ABOVE AND BELOW THE DOORS (UNLESS NOTED OTHERWISE).
- BEFORE ANY SPRINKLER PIPING IS CONCEALED THE SPRINKLER CONTRACTOR SHALL NOTIFY LOCAL AHJ INSPECTOR 48 HOURS IN ADVANCE, SO THAT THE FIRE INSPECTOR CAN INSPECT THE SYSTEMS PIPING FOR CONFORMANCE WITH CODE REQUIREMENTS.
- HYDROSTATICALLY TEST ALL NEW SPRINKLER PIPING AT 200psi FOR 2 HOURS. NOTIFY LOCAL AHJ AND/OR PROPER AUTHORITIES 48 HOURS PRIOR TO TEST.
- ALL OFFICE AND BREAKROOM AND RESTROOMS ARE CLASSIFIED AS LIGHT HAZARD OCCUPANCIES.
- KITCHEN,MECHANICAL CLOSETS, ELECTRICAL ROOMS, AND STORAGE ROOMS ARE CLASSIFIED AS ORDINARY HAZARD OCCUPANCIES.



TYP. RETURN BEND ASSEMBLY FOR HARD GYP. BOARD CEILINGS



STANDARD UPRIGHT
SCALE: NTS



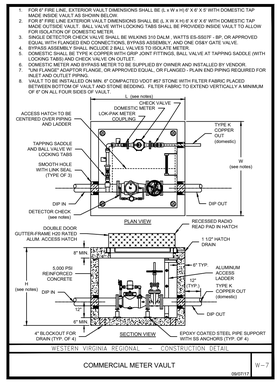
WET PIPE SYSTEM TEST CONNECTION

TRAPEZE INSTALLATION REQUIREMENTS

SPAN OF TRAPEZE (Schedule 10 OR 40)	NOMINAL PIPE SIZE SUPPORTED							
	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	6" 8"
1 FT. 0 IN.	1"	1"	1"	1"	1"	1"	1-1/4"	1-1/4" 1-1/2"
2 FT. 0 IN.	1"	1"	1"	1-1/4"	1-1/4"	1-1/4"	1-1/2"	1-1/2" 2"
2 FT. 6 IN.	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/2"	2" 2"
3 FT. 0 IN.	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/2"	1-1/2"	1-1/2"	2" 2-1/2"
4 FT. 0 IN.	1-1/2"	1-1/2"	1-1/2"	1-1/2"	2"	2"	2"	2-1/2" 2-1/2"
5 FT. 0 IN.	2"	2"	2"	2"	2"	2"	2-1/2"	2-1/2" 3"
6 FT. 0 IN.	2"	2"	2"	2"	2"	2-1/2"	2-1/2"	3" 3"
7 FT. 0 IN.	2"	2"	2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	3" 3-1/2"
8 FT. 0 IN.	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	3" 3-1/2"
9 FT. 0 IN.	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	3"	4" 4"
10 FT. 0 IN.	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	3"	3"	4" 4"

ALL THREAD ROD INSTALLATION REQUIREMENTS (PER NFPA-13)

PIPE SIZE (Schedule 10 OR 40)	ROD SIZE
3/4"	3/8"
1"	
1-1/4"	
1-1/2"	
2"	
2-1/2"	
3"	
4"	
5"	1/2"
6"	



VAULT MODIFIED NO DOMESTIC SERVICE OR METER
NOTES FOR DOMESTIC SERVICE HAVE BEEN CROSSED THROUGH!

NOTE: SPRINKLERS ARE NOT TO BE REQUIRED WHERE THE BATHROOM AREA DOES NOT EXCEED 55 SQ. FT. (PER NFPA 13R)

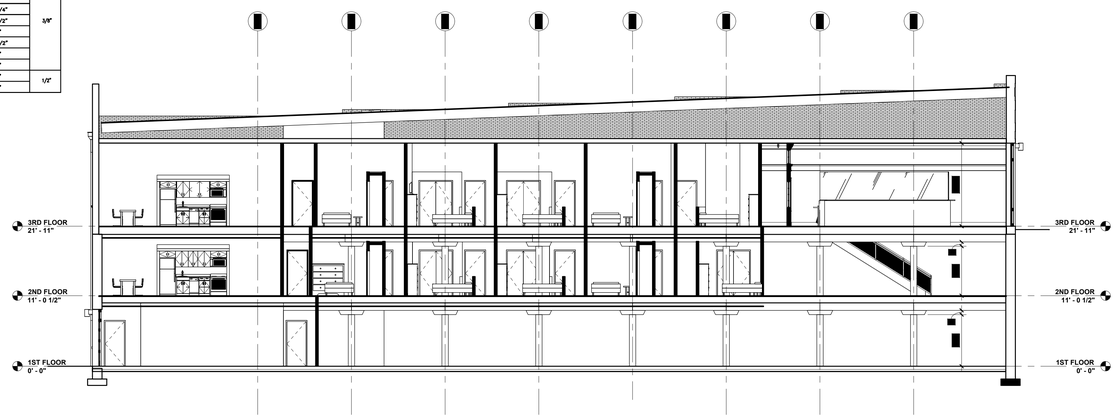
NOTE: SPRINKLERS ARE NOT TO BE REQUIRED WHERE CLOSETS DO NOT EXCEED 24 SQ. FT. (PER NFPA 13R)

NOTE: ALL FIRE ALARM WORK & WIRING IS TO BE BY OTHERS.

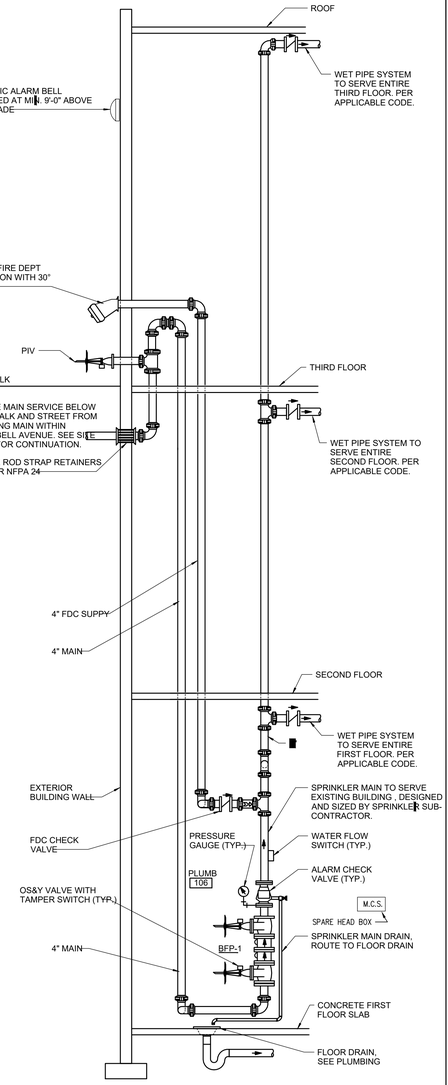
NOTE: ALL PIPING TO BE EXPOSED EXCLUDING BATHROOMS

1 CORRECTED THE POSITION OF THE UNDERGROUND VAULT & WATER LINES.

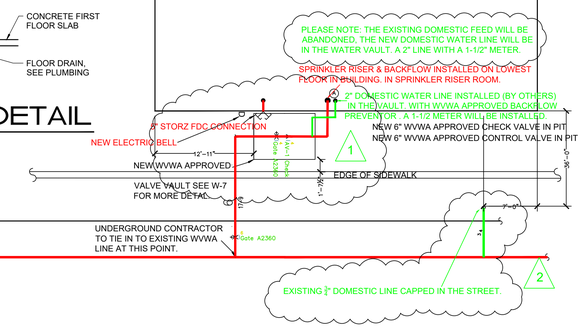
2 LOCATION OF THE ABANDONED DOMESTIC LINE.



BUILDING SECTION
NOT TO SCALE



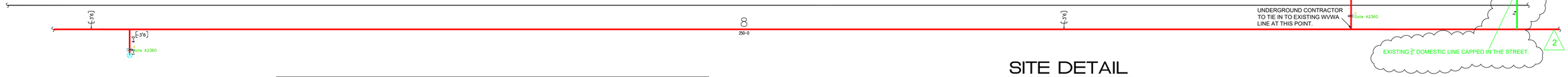
WET SYSTEM DETAIL
NOT TO SCALE



SITE DETAIL
NOT TO SCALE

CAMPBELL AVE.

351 CAMPBELL AVE.



WATER INFORMATION
Static: 79 psi Test by: WVWA
Residual: 71 psi Test performed: 3/2021
Flow: 1126 gpm

SCOPE OF WORK

MAGIC CITY SPRINKLER HAS BEEN CONTRACTED TO DESIGN & INSTALL NEW WET AUTOMATIC SPRINKLER SYSTEM FOR 351 CAMPBELL AVENUE IN ROANOKE VA ALL PLANS TO CONFORM TO THE NFPA-13 & 13R 2013 EDITION, 2015 IBC AND THE LOCAL AUTHORITY HAVING JURISDICTION. MAGIC CITY SPRINKLER IS NOT RESPONSIBLE FOR THE INSTALLATION OF UNDERGROUND PIPING, VAULT INSTALLATION, NOR CONNECTING TO THE CITY WATER MAIN. IT IS TO BE INSTALLED AND SUBMITTED BY OTHERS.

NOTE: ALL UPRIGHT SPRINKLERS TO BE 1"-12" BELOW ROOF DECK!

NOTE: SPRINKLERS LOCATED IN DWELLING UNITS ARE TO BE RESIDENTIAL TYPE PENDANTS & UPRIGHT USING NO MORE THAN 16 X 16 SPACING.

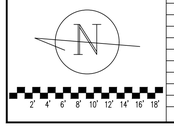
NOTE: SPRINKLERS LOCATED IN THE COMMERCIAL & STORAGE SPACES ARE SPACED FOR ORDINARY HAZARD ONLY. NO MORE THAN 130 SQ. FT.

NOTE: SPRINKLERS SHALL NOT BE REQUIRED IN CONCEALED SPACE DEDICATED EXCLUSIVELY TO AND CONTAINING ONLY DWELLING UNIT VENTILATION EQUIPMENT, CRAWL SPACES, FLOOR/CEILING SPACES, NONCOMBUSTIBLE ELEVATOR SHAFTS WHERE THE ELEVATOR CARS WITH ANSI A17.1, SAFETY CODES FOR ELEVATORS, AND ESCALATORS ,AND OTHER CONCEALED SPACES THAT ARE NOT USED OR INTENDED FOR LIVING PURPOSES OR STORAGE AND DO NOT CONTAIN FUEL FIRED EQUIPMENT. (PER NFPA 13R)

AS-BUILT DRAWING 12-13-21

TYLER OBENCHAIN
NICET CERT. NO. 145236

JOB NORTH



HEAD LEGEND

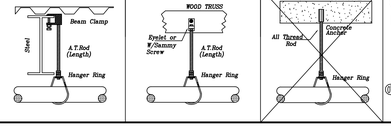
QTY.	SYM.	MAKE	FINISH	TEMP°	K	NPT	MFG.	MODEL	SIN No.	ESCUTCHEON

TOTAL THIS SHEET | PROJECT TOTAL | 312

GENERAL NOTES

1. ALL PIPE 2" AND SMALLER TO BE SCHEDULE 10 AND/OR 40 STEEL PIPE. PIPE 2-1/2" AND LARGER TO BE SCHEDULE 10 AND/OR 40 STEEL PIPE.
2. ALL SPRINKLER SYSTEM MATERIALS TO BE U.L. LISTED AND/OR FACTORY MUTUAL APPROVED.
3. PIPE HANGERS TO BE INSTALLED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF NFPA 13 2013.
4. IT IS THE RESPONSIBILITY OF THE OWNER TO PROVIDE AND MAINTAIN HEAT IN ALL AREAS OF SPRINKLER SYSTEM SUBJECT TO FREEZING.
5. PAINTING AND PATCHING BY OTHERS.
6. ELECTRICAL WIRING BY OTHERS.
7. SPRINKLER HEADS ARE REQUIRED TO BE CENTERED IN CEILING TILES ONE WAY.

TYPICAL HANGER DETAILS



SYMBOL LEGEND

- SYSTEM RISER – SEE RISER DETAIL
- SYSTEM CONTROL VALVE
- PIPE RISE OR DROP
- NEW PIPE
- EXISTING PIPE
- PIPE HANGER
- GROOVED COUPLING
- (20' & 40') PIPE CENTERLINE ABOVE FINISHED FLOOR
- * DISTANCE BELOW DECK IN INCHES TO CENTERLINE OF PIPE
- (11) A11 — HYDRAULIC NODE OR REFERENCE POINT
- PIPE CAP
- A11 — SPRINKLER MAIN LINE PIPE TAG
- 11 — SPRINKLER BRANCH LINE PIPE TAG
- DDCV BACKFLOW PREVENTER W/ TAMPER SWITCHES
- FIRE DEPARTMENT CONNECTION
- 11-0 — ACTUAL CUT LENGTH OF PIPE
- 7'-0" — DIMENSION FROM STEEL OR WALL

REVISIONS

DATE	DESCRIPTION	BY
6-10-21	WINDOW PROTECTION	TO
12-13-21	AS-BUILT DRAWING	TO

Magic City Sprinkler, Inc.
1601 GRANDY STREET N.E. ROANOKE, VIRGINIA 24012 (540)345-9810

351 CAMPBELL AVE. LOFTS
351 CAMPBELL AVE., ROANOKE VA

SITE PLAN & DETAILS

Drawn by: T.OBENCHAIN	Permit # CMR20-0331	Insp.Tel#	
Checked by: J.O	File name:	Job no. 7725-21	
Scale:	Date: 4-2-2021	Sheet 1 of 2	