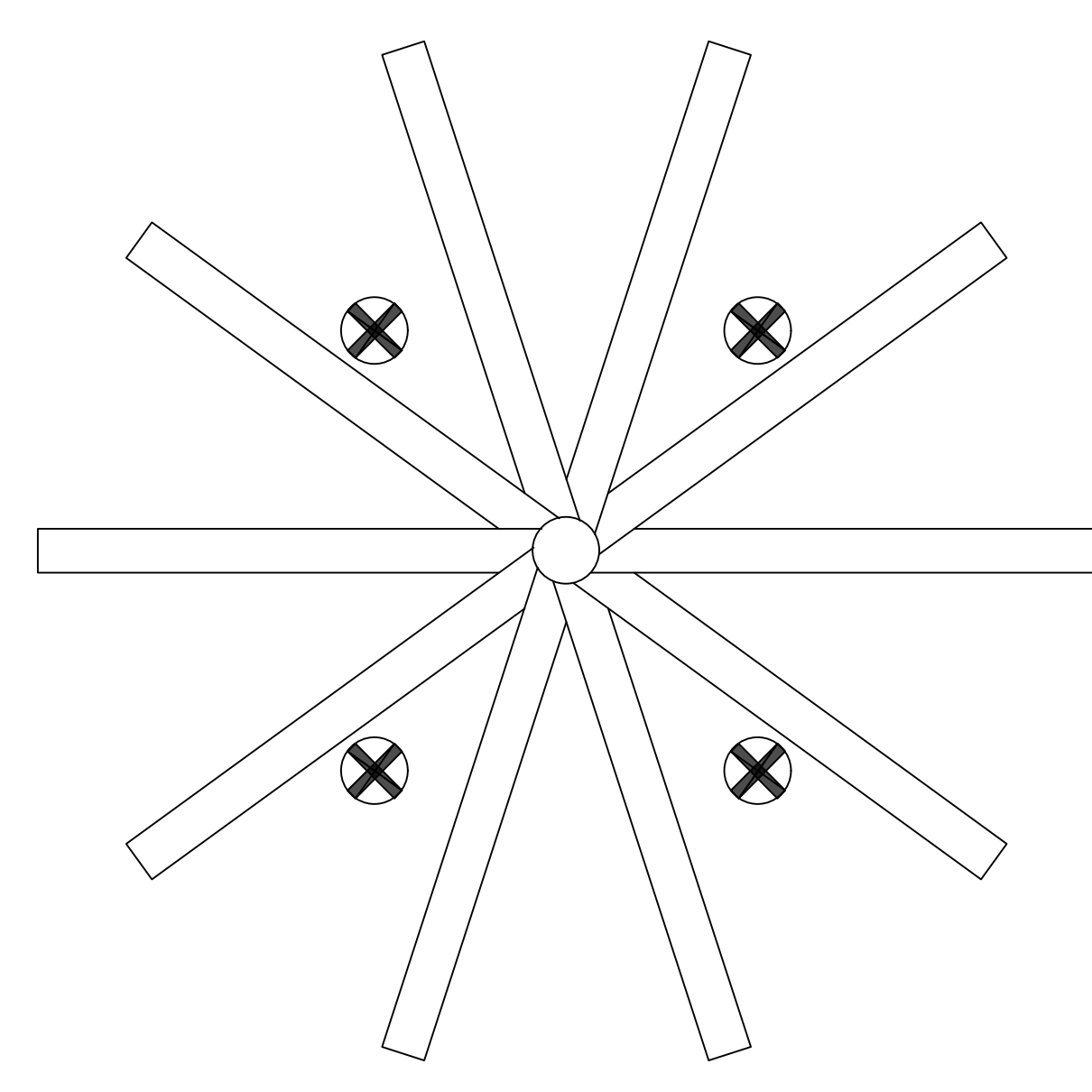
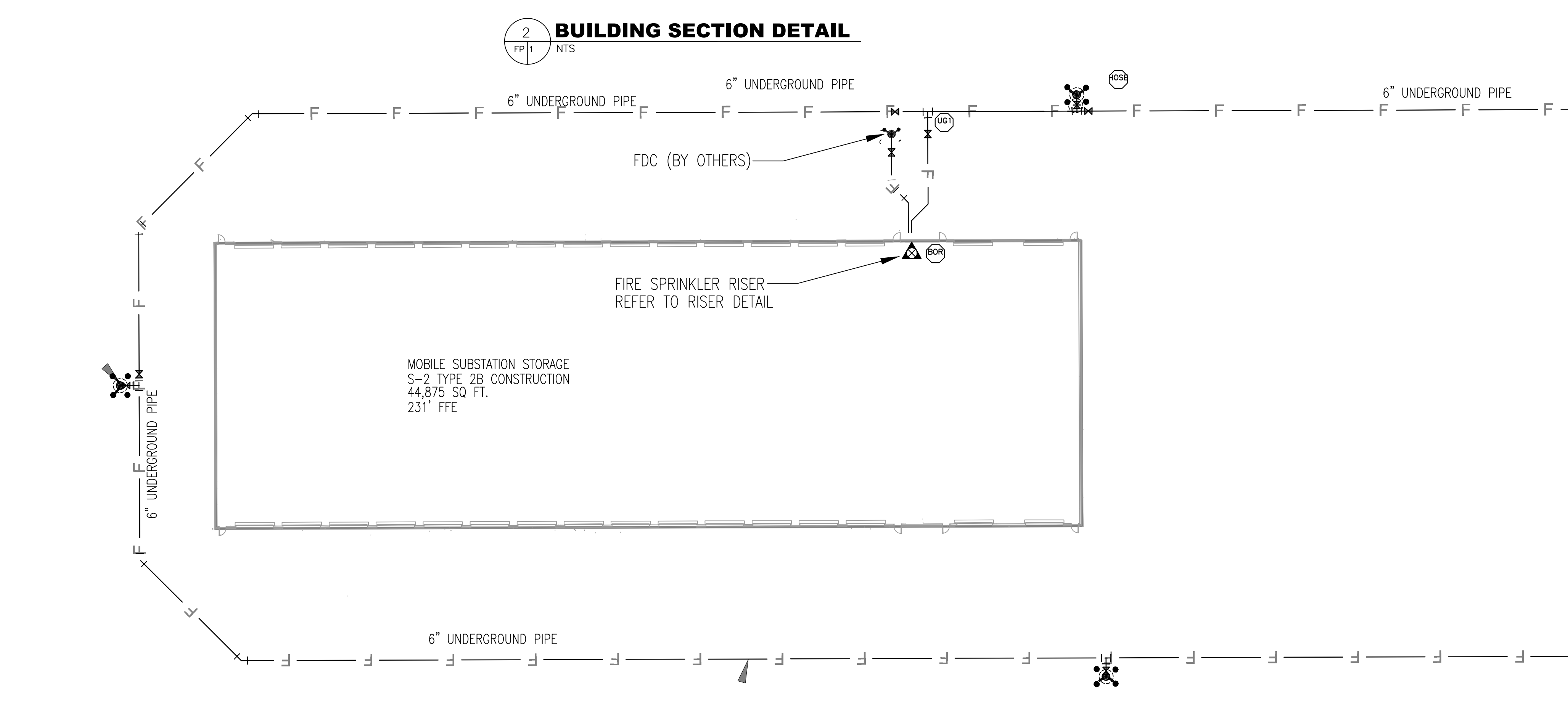
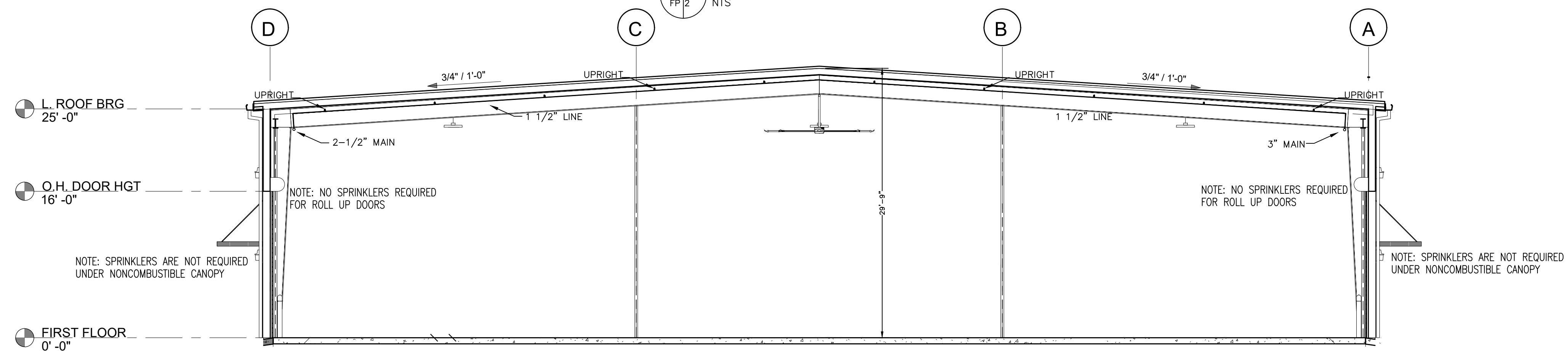
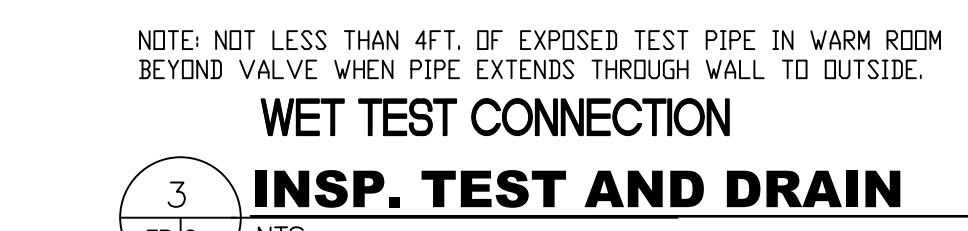
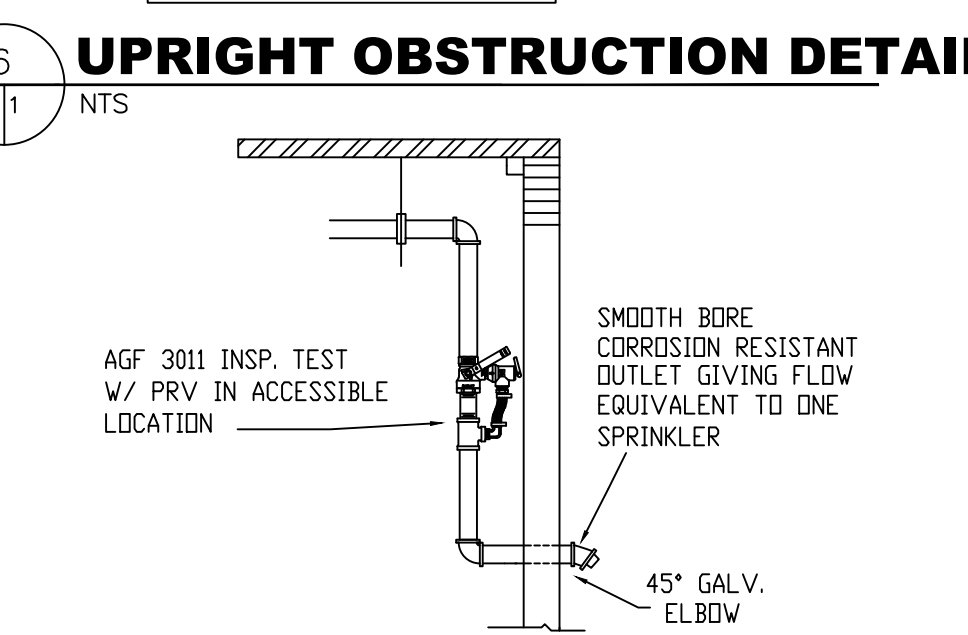
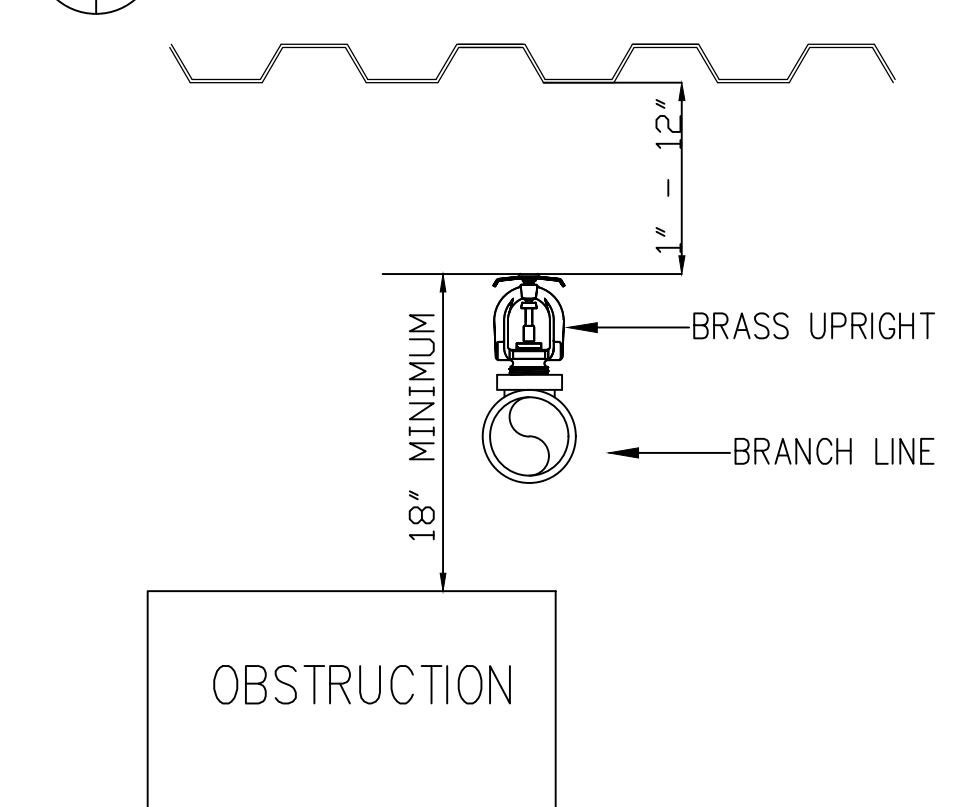
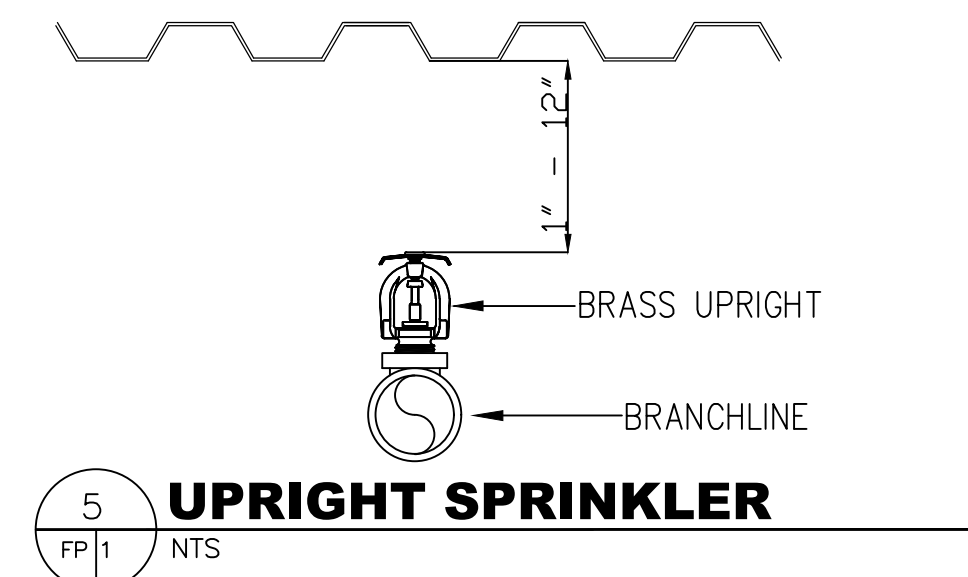


GENERAL NOTES:

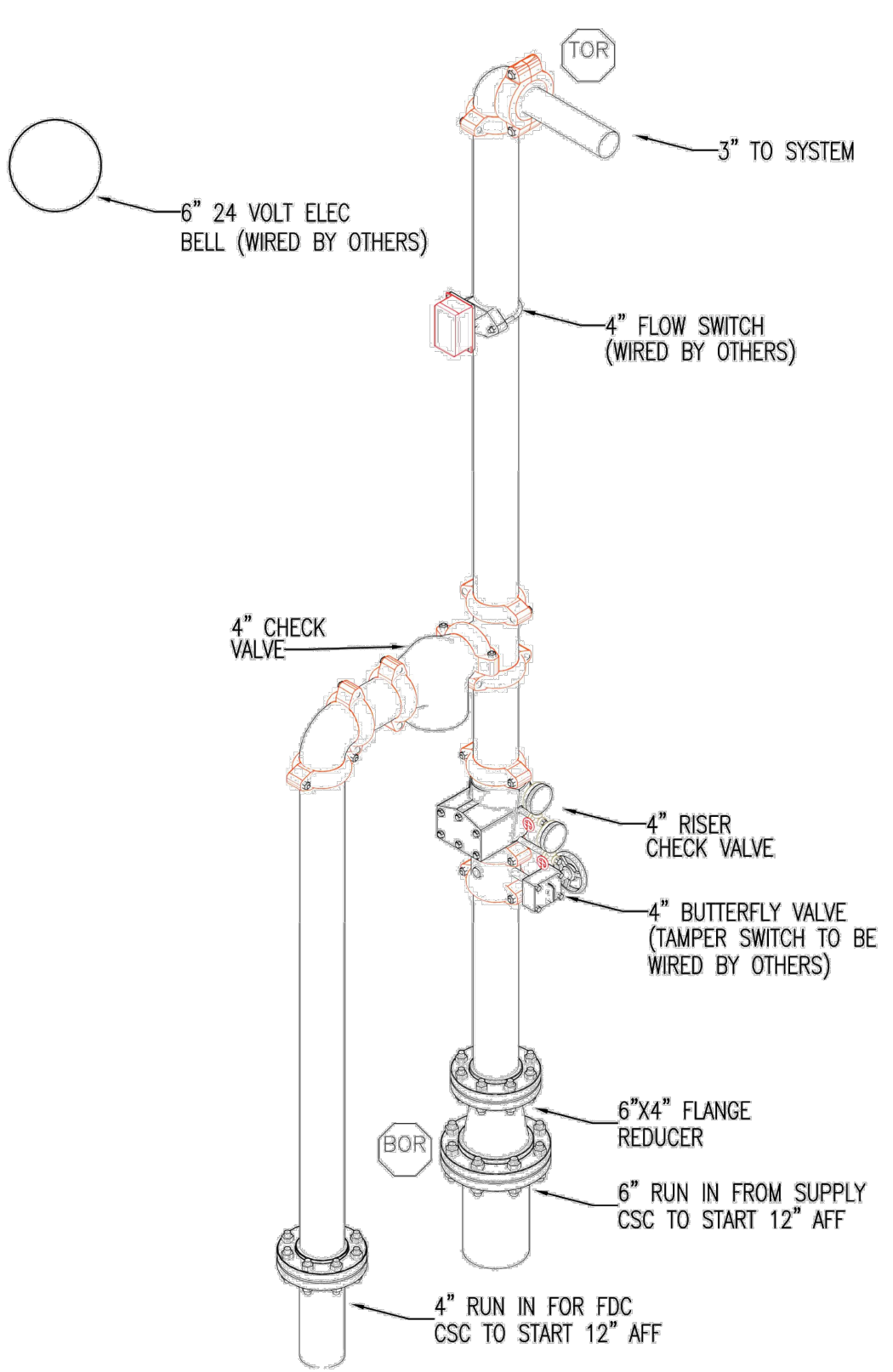
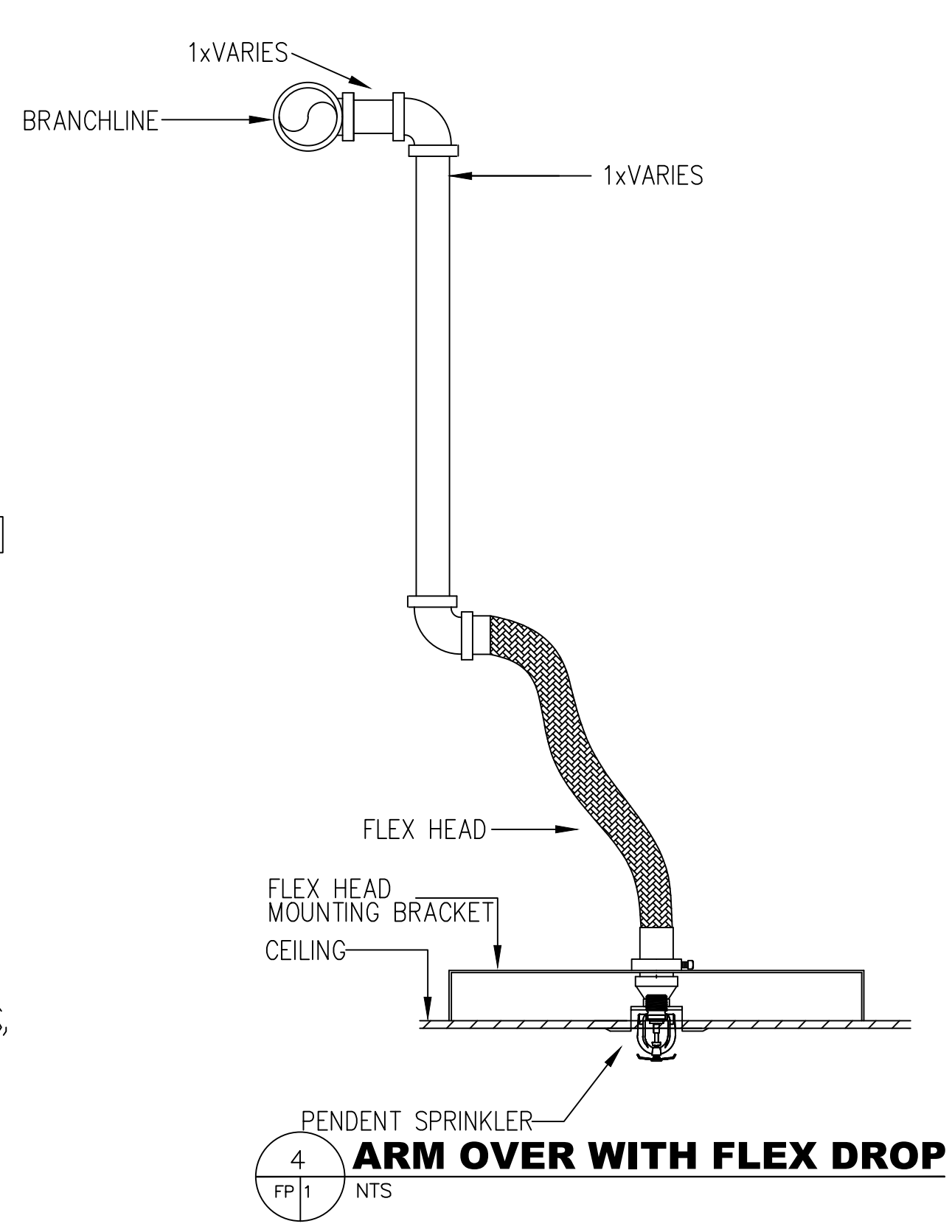
- ALL WORK SHALL BE IN FULL COMPLIANCE WITH NFPA 13 (2013) AND THE NORTH CAROLINA STATE FIRE CODE, THE GENERAL CONDITIONS OF THE CONTRACT APPLY.
- MATERIALS AND INSTALLATION SHALL COMPLY WITH APPLICABLE NFPA CODES, STATE BUILDING CODE, LOCAL AUTHORITY HAVING JURISDICTION, AND INSURANCE UNDERWRITER'S REQUIREMENTS.
- ALL MATERIALS AND EQUIPMENT SHALL BE UL LISTED FOR THE INTENDED USE AND SHALL BE INSTALLED IN FULL COMPLIANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- ALL SPRINKLER PIPE 2" AND SMALLER IS SCHEDULE-40 BLACK STEEL WITH THREADED ENDS AND FITTINGS. ALL 1 1/2" BRANCHLINE PIPE SHALL BE SCHEDULE-40 BLACK STEEL WITH GROOVED ENDS AND FITTINGS. ALL SPRINKLER PIPE 2 1/2" AND LARGER IS SCHEDULE-10 BLACK STEEL WITH GROOVED ENDS AND FITTINGS - UNO.
- SPRINKLER HEAD SPACING IS BASED ON THE NFPA STANDARDS FOR LIGHT HAZARD OCCUPANCIES (OFFICE) ALLOWING A MAXIMUM HEAD SPACING OF 225 S.F. PER HEAD.
- SPRINKLER HEAD SPACING IS BASED ON THE NFPA STANDARDS FOR ORDINARY HAZARD OCCUPANCIES (VEHICLE PARKING) ALLOWING A MAXIMUM HEAD SPACING OF 130 S.F. PER HEAD.
- LOCATIONS OF PIPING AS SHOWN ON THE DRAWINGS ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD.
- A SUFFICIENT SAFETY FACTOR HAS BEEN IMPLEMENTED INTO THIS DESIGN. CSCO IS NOT RESPONSIBLE FOR CHANGES IN THE CITY WATER SUPPLY THAT MAY ADVERSELY AFFECT THIS SYSTEM IN THE FUTURE.
- THE FIRE FLOW TEST INFORMATION HAS BEEN PROVIDED BY CRAWFORD SPRINKLER DATED 5/9/24 INDICATES THE FOLLOWING...

STATIC: 120 PSI
RESIDUAL: 42 PSI
FLOW: 1,270 GPM



- THE INSTALLATION OF HVLS FANS IN BUILDINGS EQUIPPED WITH SPRINKLERS, INCLUDING ESFR SPRINKLERS, SHALL COMPLY WITH THE FOLLOWING:
- THE MAXIMUM FAN DIAMETER SHALL BE 24 FT.
 - THE HVLS FAN SHALL BE CENTERED APPROXIMATELY BETWEEN FOUR ADJACENT SPRINKLERS.
 - THE VERTICAL CLEARANCE FROM THE HVLS FAN TO THE SPRINKLER DEFLECTOR SHALL BE A MIN. OF 3 FT.
 - ALL HVLS FANS SHALL BE INTERLOCKED TO SHUT DOWN IMMEDIATELY UPON RECEIVING A WATER FLOW SIGNAL FROM THE ALARM SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 72. INTERLOCK WIRING IS TO BE BY OTHERS.

HVLS FAN HIGH VOLUME LOW SPEED FAN NO SCALE



SPRINKLER DESIGN DATA			
PROJECT NAME:	DUNN MOBILE SUBSTATION STORAGE	SYSTEM NO.:	SYSTEM 1
PROJECT LOCATION:	1269 JONESBORO ROAD DUNN, NC 28334	SYS. SQ. FT.:	44,041
DESIGNED BY:	DOUG JOHNSTON II	PH#:	919-828-9346
OCCUPANCY DESCRIPTION:	VEHICLE STORAGE	HAZARD CLASS:	ORDINARY GROUP II
DESIGN SUMMARY			
DESIGN METHOD:	CALC	AREA 1	
LOCATION:	TRUCK BAYS		
TYPE OF SYSTEM:	WET		
HAZARD CLASS:	ORD. GRP. II		
CRITERIA FROM:	NFPA 13		
DESIGN AREA:	1500		
SPKLR. SPACING:	130 MAX		
DENSITY:	2		
K-FACTOR:	8.0		
HOSE ALLOWANCE:	250		
# DESIGN SPKLR.:	14		
REQUIREMENTS @ BASE OF RISER			
GPM REQUIRED:	477.82		
PSI REQUIRED:	37.58		
NODE#:	BCR		
REQUIREMENTS @ TEST			
GPM REQUIRED:	627.82		
PSI REQUIRED:	52.47		
NODE#:	TEST		
SAFETY FACTOR:	16.34		
WATER SUPPLY INFORMATION			
TESTED BY: CRAWFORD FIRE SPRINKLER			
DATE: 5/9/24			
LOCATION: 1269 JONESBORO ROAD			
STATIC (PSI):	120		
RESIDUAL (PSI):	42		
FLOW (GPM):	1270		
IS COPY OF WATER TEST DATA INCLUDED WITH CALCULATIONS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
IS STORAGE HEIGHT GREATER THAN 12 FEET? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			

SYMBOLS:

- XXX DENOTES A HYDRAULIC CALCULATION POINT OF REFERENCE
- DENOTES A HYDRAULIC REMOTE AREA
- DENOTES NEW SPRINKLER PIPE
- ▲ DENOTES A WET SYSTEM RISER LOCATION
- [X-X] DENOTES PIPE CENTERLINE ELEVATION AFF
- [XX Bts] DENOTES PIPE CENTERLINE BELOW TOP OF STEEL
- DENOTES FINISHED CEILING ELEVATION
- ▲ DENOTES AN EXTERIOR MOUNTED ELECTRIC BELL
- DENOTES FIRE SPRINKLER PIPE HANGER

WATER TEST
BY: CRAWFORD SPRINKLER COMPANY
DATE: 5/9/24
STATIC: 120PSI
RESIDUAL: 42 PSI
FLOW: 1270 GPM
ELEVATION: 215'

IMPORTANT: IN LOCATIONS SUBJECT TO FREEZING CONDITIONS IT IS THE OWNER'S RESPONSIBILITY TO PROVIDE ADEQUATE HEAT THROUGHOUT WET PIPE SPRINKLER SYSTEM AREAS AND ENCLOSURES FOR DRY PIPE, DELUGE AND OTHER TYPES OF VALVES. CONTROLLING WATER SUPPLIES TO SPRINKLER SYSTEMS.

THIS DRAWING AND THE INFORMATION HEREON IS THE PROPERTY OF CRAWFORD SPRINKLER COMPANY OF RALEIGH AND MAY NOT BE REPRODUCED, ALTERED OR USED IN ANY FORM WITHOUT CONSENT FROM CRAWFORD SPRINKLER COMPANY OF RALEIGH (CSCO).

THIS FIRE SPRINKLER PLANNING AND DESIGN DRAWING HAS BEEN PREPARED BY CSCO AS A LICENSED FIRE SPRINKLER CONTRACTOR UNDER ARTICLE 2 OF CHAPTER 87 OF THE GENERAL STATUTES FOR CSCO'S EXCLUSIVE USE PURSUANT TO G.S. § 89C-25(8). AND CSCO MUST PERFORM ANY AND ALL INSTALLATION WORK AND OTHER WORK PERFORMED IN RELIANCE ON THIS DRAWING PURSUANT TO G.S. § 55B-10(2). INSTALLATION WORK OR ANY OTHER WORK PERFORMED BY ANY OTHER PERSON OR ENTITY IN RELIANCE ON THIS DRAWING OR ANY COPY THEREOF IS STRICTLY PROHIBITED.

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BRIAN THOMAS CRAWFORD
NICET LEVEL III WBSL #107492

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DUKE ENERGY - DUNN MOBILE SUBSTATION STORAGE
SITE PLAN AND DETAILS
1269 JONESBORO ROAD
DUNN, NORTH CAROLINA

UNDERWRITERS:
INDEX NO.
REVISIONS:

DESIGN CRITERIA

SYSTEM TYPE	WET
SYSTEM DESIGN	CALCULATED
DESIGN DENSITY	0.20 gpm/1500 sf
MAX HEAD CVRG	130 s.f.
HOSE ALLOWANCE	250 gpm

DRAWN BY: DFJ DATE: 8/23/24
CHECK BY: BTC DATE:
SCALE: AS NOTED

CONTRACT NO. J24-6014
FILE NO.:

DWG. NO. **FP 1 OF 2**
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