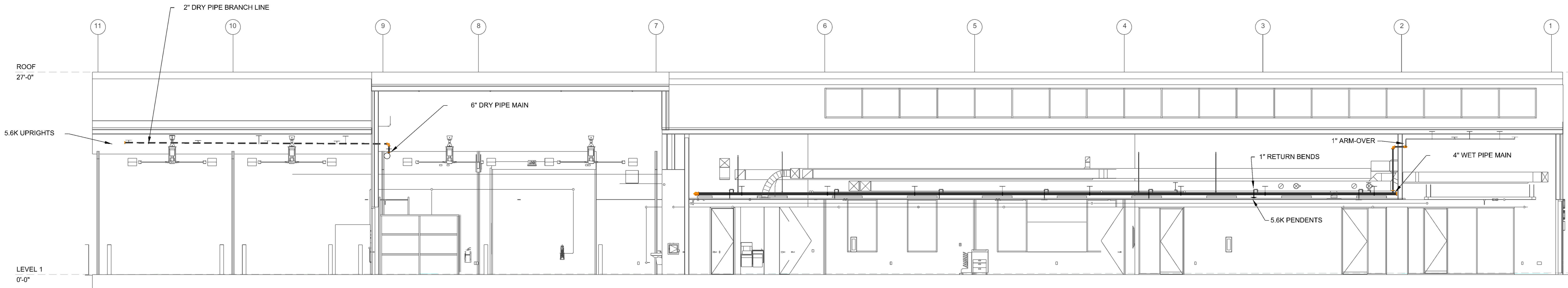
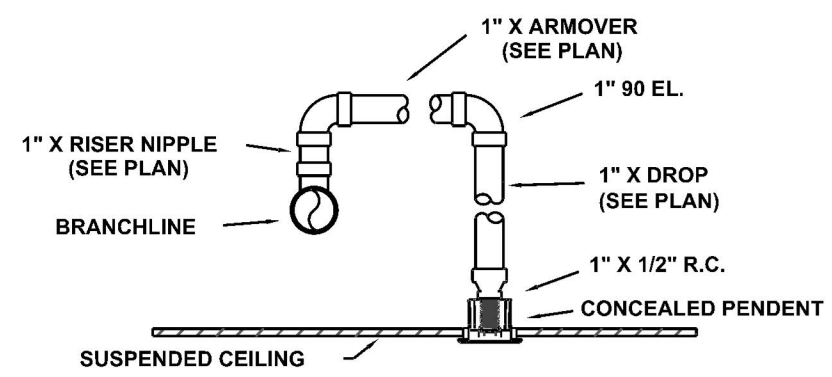


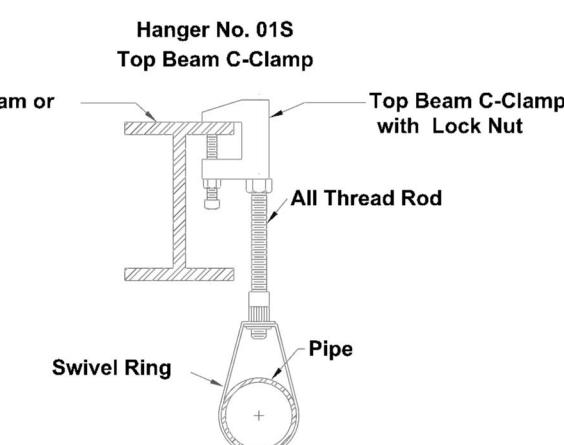
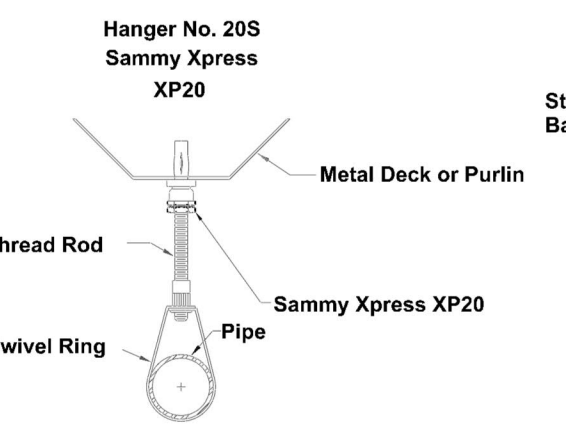
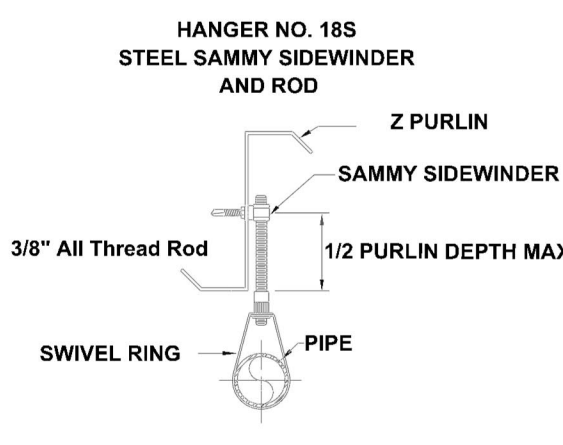
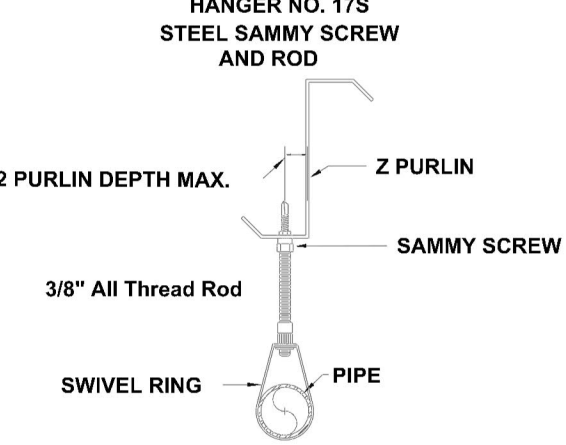
Sprinkler Legend - ENTIRE BUILDING										
Symbol	Manufacturer	SIN	Model	Quantity	K-Factor	Type	Size	Response	Finish	Note
	Reliable	RA1425	F1FR56	33	5.6	Upright	1/2"	Quick	Brass	200°F SPRIG
	Reliable	RA1425	F1FR56	41	5.6	Upright	1/2"	Quick	Brass	200°F N/A
	Reliable	RA3415	GS-56	21	5.6	Concealed Pendant	1/2"	Quick	Brass	212°F WHITE PLATE CONCEALED
	Reliable	R5734	F3QR56 DRY HSW	2	5.6	Horizontal Sidewall	1"	Quick	Chrome	200°F STANDARD / DRY
				Total = 97						



BUILDING SECTION
A
0' 1' 2' 4' 8' 16'
1/8" = 1'-0"



TYP. RETURN BEND ASSEMBLY

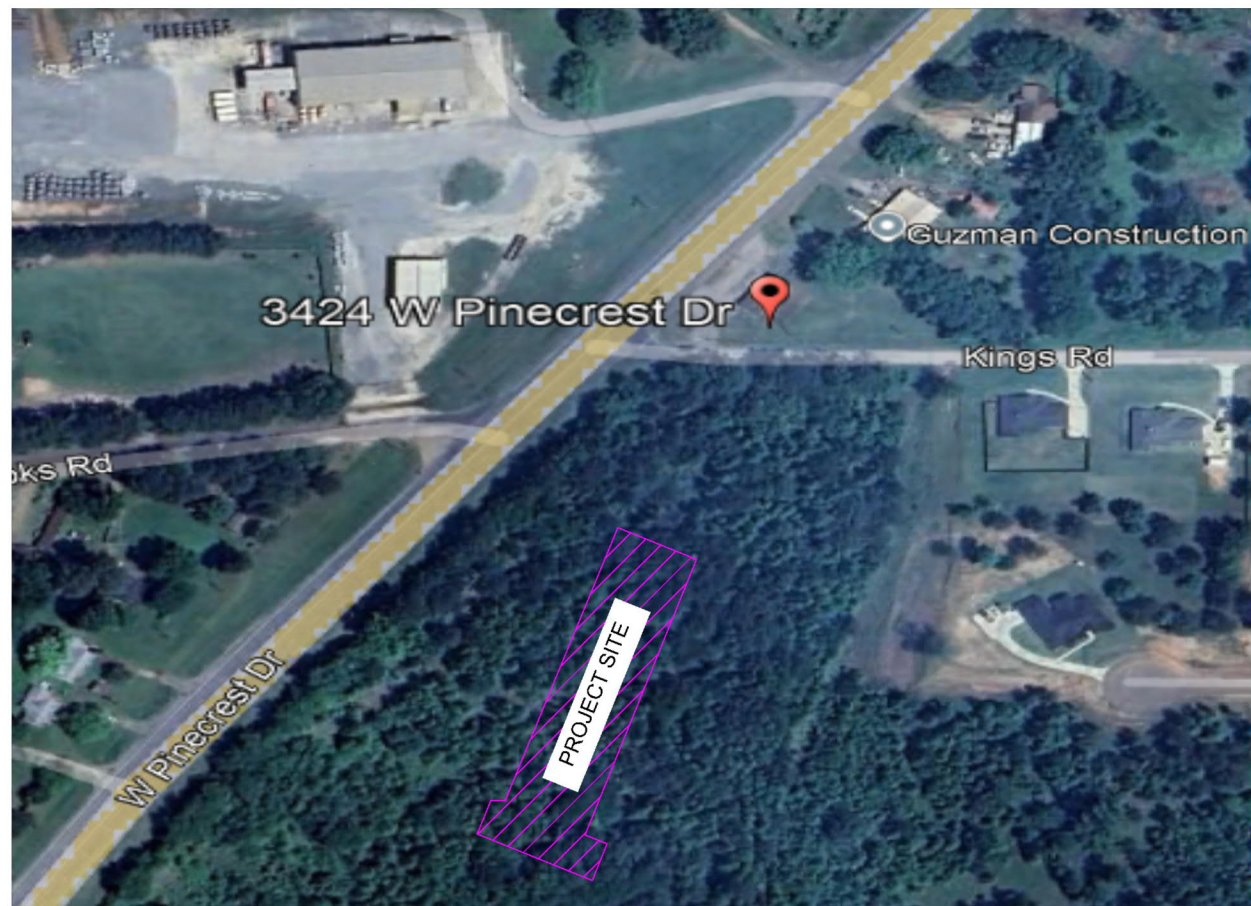


HANGER DETAILS

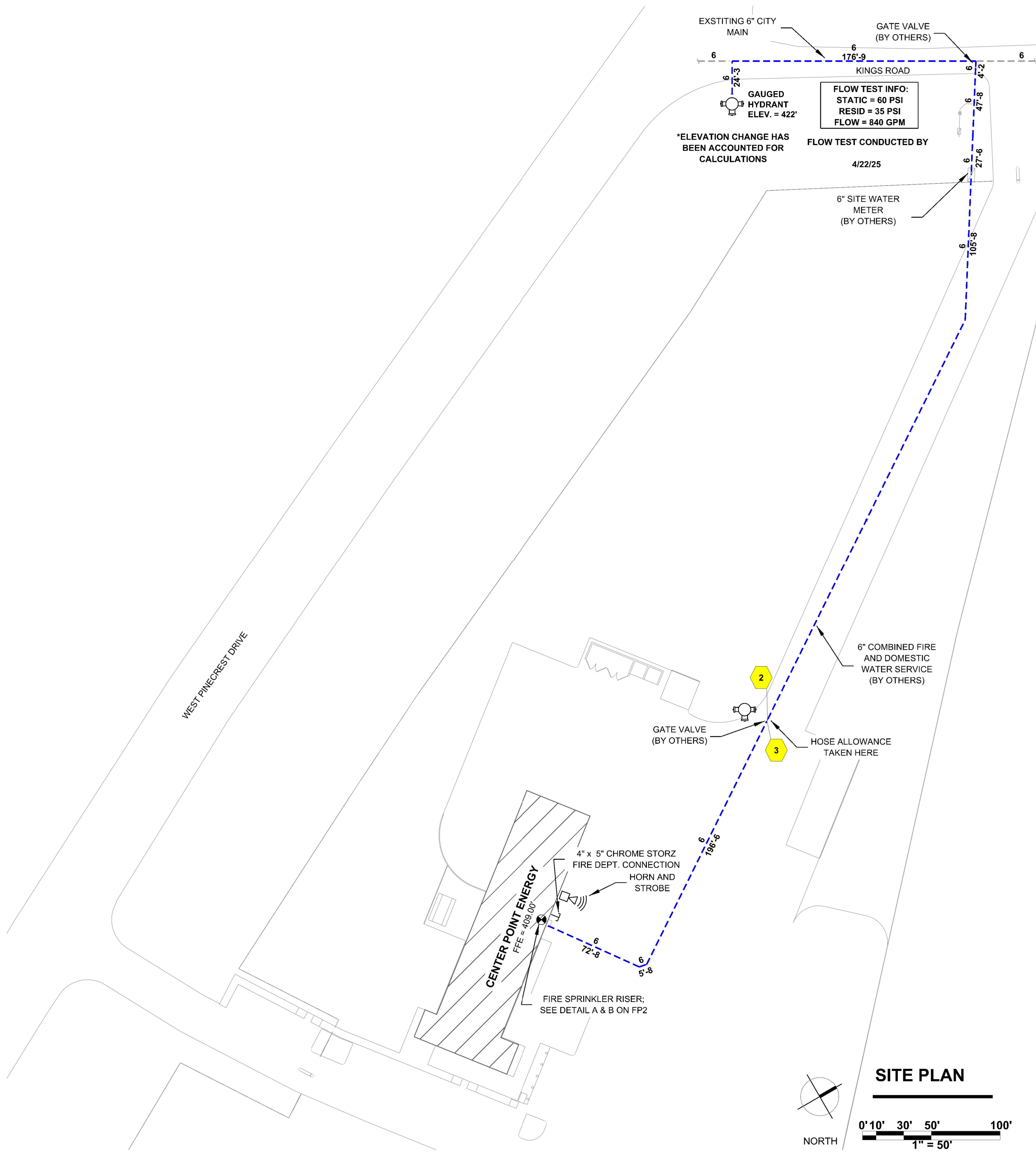
MAXIMUM DISTANCE BETWEEN HANGERS										
NOMINAL PIPE SIZE (in.)	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	5"	6"
STEEL PIPE EXCEPT THREADED LIGHTWALL	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0

GENERAL INFORMATION

- INTERNATIONAL BUILDING CODE (2015)
 - OCCUPANCY: TYPE B, S-1
 - TYPE OF CONSTRUCTION: II-B
 - SPRINKLERED AREAS (APPROXIMATE - SEE ARCHITECTURAL PLANS FOR ACTUAL)
 - WET SYSTEM = 5,600 S.F.
 - DRY SYSTEM = 3,800 S.F.
 - DESIGN & INSTALLATION STANDARDS: NFPA-13 (2016)
 - AUTHORITY HAVING JURISDICTION (AHJ): CITY OF MARSHAL, TX
- SPRINKLER PIPE TYPES:
 - WET:
 - 1" THROUGH 1 1/4" PIPE TO BE SCHEDULE 40 BLACK STEEL w/ THREADED FITTINGS
 - 1 1/2" THROUGH 4" MAINS & BRANCH LINES TO BE BLK SCHEDULE 10 w/ GROOVED FITTINGS
 - MAINS & BRANCH LINES TO BE ROLL-GROOVED BLK SCHEDULE 10
 - 2" AND LARGER TO USE GROOVED SHORT RADIUS FITTINGS
 - DRY:
 - 1" THROUGH 1 1/4" PIPE TO BE SCHEDULE 40 BLACK STEEL w/ THREADED FITTINGS
 - 1 1/2" THROUGH 4" MAINS & BRANCH LINES TO BE BLK SCHEDULE 10 w/ GROOVED FITTINGS
 - MAINS & BRANCH LINES TO BE ROLL-GROOVED BLK SCHEDULE 10
 - 2" AND LARGER TO USE GROOVED SHORT RADIUS FITTINGS
- DESIGN CRITERIA:
 - LIGHT HAZARD AREAS INCLUDE OFFICE/ADMINISTRATIVE, RESTROOMS, BREAKROOMS, COVERED PATIO, AND CORRIDORS
 - ORDINARY HAZARD GROUP I AREAS INCLUDE MECHANICAL AND ELECTRICAL ROOMS, WAREHOUSE, LAUNDRY ROOM, AND JANITOR CLOSET
 - REMOTE AREA INCREASED BY 30% FOR SLOPED CEILINGS PER NFPA 13 SEC. 11.2.3.2.4
 - REMOTE AREA INCREASED BY 30% FOR DRY SYSTEMS PER NFPA 13 SEC. 11.2.3.2.5
- NOTES:
 - ALL MATERIAL TO BE NEW AND MEET U.L. STANDARDS
 - HANGERS TO BE INSTALLED IN ACCORDANCE WITH NFPA 13 - SEE PLAN FOR HANGING REQUIREMENTS
 - DRY SYSTEM REQUIREMENTS:
 - DRY SYSTEM PIPE SLOPE INSTALLATION
 - SPRINKLER MAINS TO BE 1/4" PER 10'-0" (NONREFRIGERATED AREAS)
 - SPRINKLER BRANCH LINES TO BE 1/2" PER 10'-0"
 - DRY SYSTEM CAPACITY
 - 200 GALLONS
- SYMBOLS USED ON DRAWINGS:
 - PIPE ELEVATION ABOVE FINISH FLOOR
 - ROOM HAZARD CLASSIFICATION (ALL ROOMS ARE CONSIDERED LIGHT HAZARD U.N.O.)
 - HYDRAULIC CALCULATION JUNCTION POINT
 -
 - FIRE RATED WALL
 - WET BLACK STEEL PIPE
 - DRY BLACK STEEL PIPE
- SCOPE OF WORK:
 - INSTALL A COMPLETE SINGLE ZONE WET FIRE SPRINKLER SYSTEM TO COVER ALL CONDITIONED SPACE IN BUILDING
 - INSTALL A COMPLETE SINGLE ZONE DRY FIRE SPRINKLER SYSTEM TO COVER ALL UNCONDITIONED SPACE INCLUDING WAREHOUSE AND PORTE COCHERE
 - ALL AREAS OF THE BUILDING TO BE INSTALLED AND COVERED IN ACCORDANCE WITH THE LOCAL AUTHORITY HAVING JURISDICTION AND PER NFPA 13

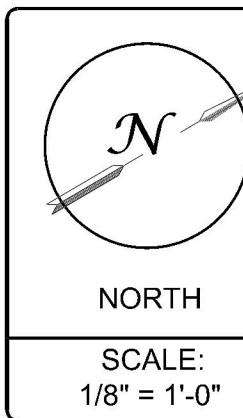


VICINITY MAP
NOT TO SCALE



SITE PLAN

0' 10' 30' 50' 100'
1" = 50'



GENERAL SYSTEM INFORMATION

- * ALL THREADED PIPING - SCHEDULE 40
- * ALL GROOVED PIPING - SCHEDULE 10
- * TOTAL AREA PROTECTED BY SYSTEM = 9,400
- * DRY SYSTEM CAPACITY (IF APPLIC.) = N/A
- * OCCUPANCY CLASSIFICATION (U.N.O.) - LIGHT HAZARD
- * ALL PIPING SHALL BE READILY AVAILABLE FOR FLUSHING

WATER SUPPLY DATA

STATIC PRESSURE: 60 psi
RESIDUAL PRESSURE: 35 psi
FLOW: 840 gpm
ORIFICE SIZE: 2 1/2"
SIZE & TYPE OF MAIN: 6"
DATE OF FLOW TEST: 4-22-25
TIME OF FLOW TEST: 10:00 a.m.
LOCATION OF TEST: PINECREST ST

DESIGN CRITERIA

SEE REMOTE ARAE REPORTS
ON PLAN PP-2

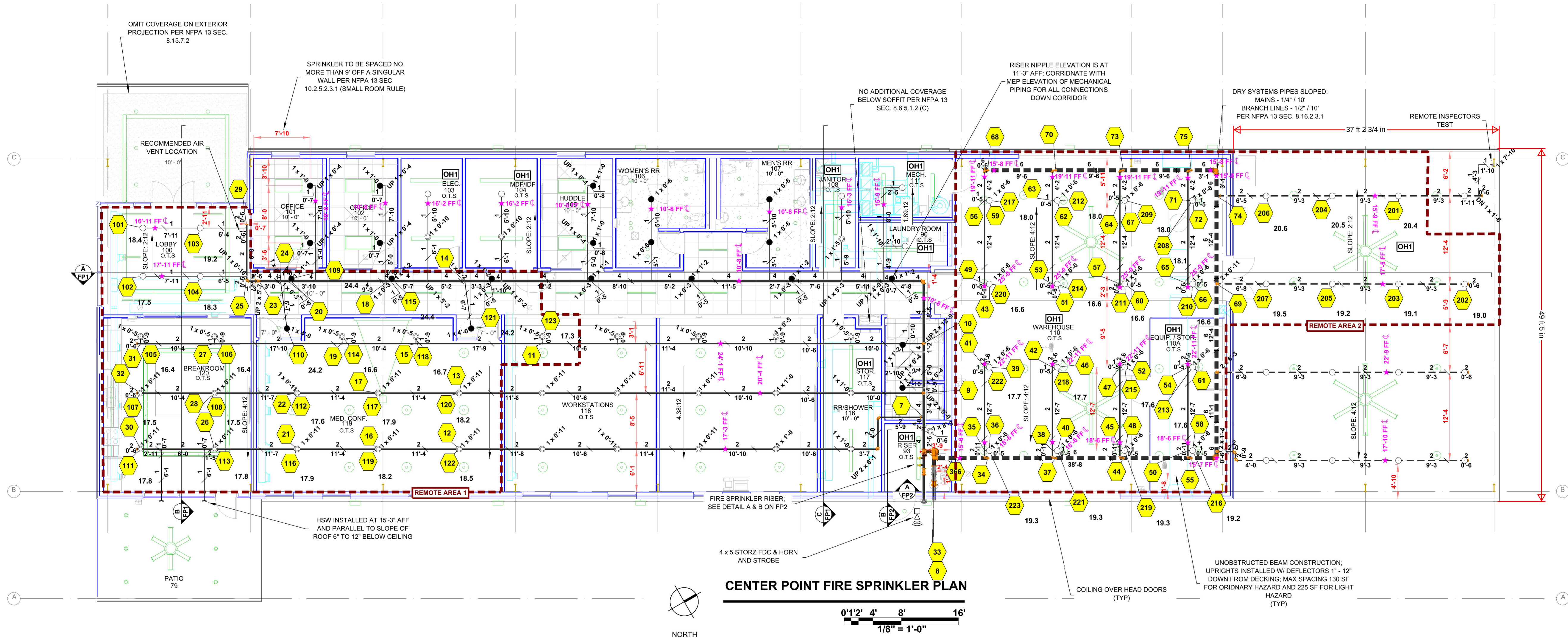
REVISIONS

DATE	
0	
1	
2	
3	

NOTE : ALL SPRINKLERS SHALL BE QUICK RESPONSE UNLESS NOTED OTHERWISE

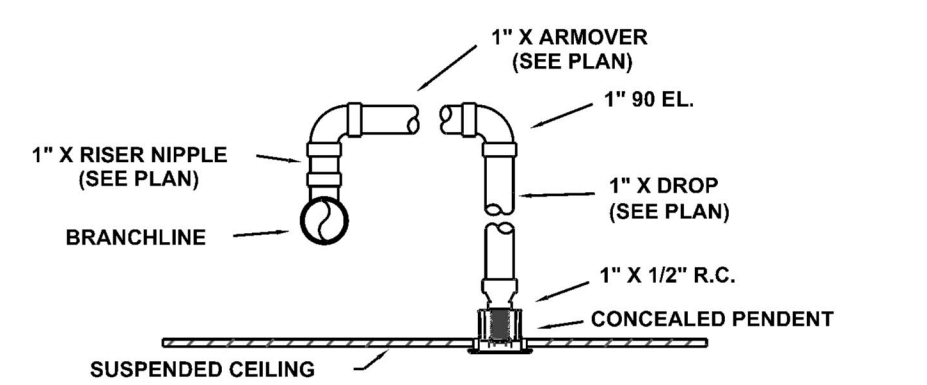
SPRINKLERS

SEE SPRINKLER LEGEND ON
PLANS



DRY SYSTEM INSPECTORS TEST DETAIL

SEE ROOF LEVEL PIPING FOR LOCATION NOT TO SCALE



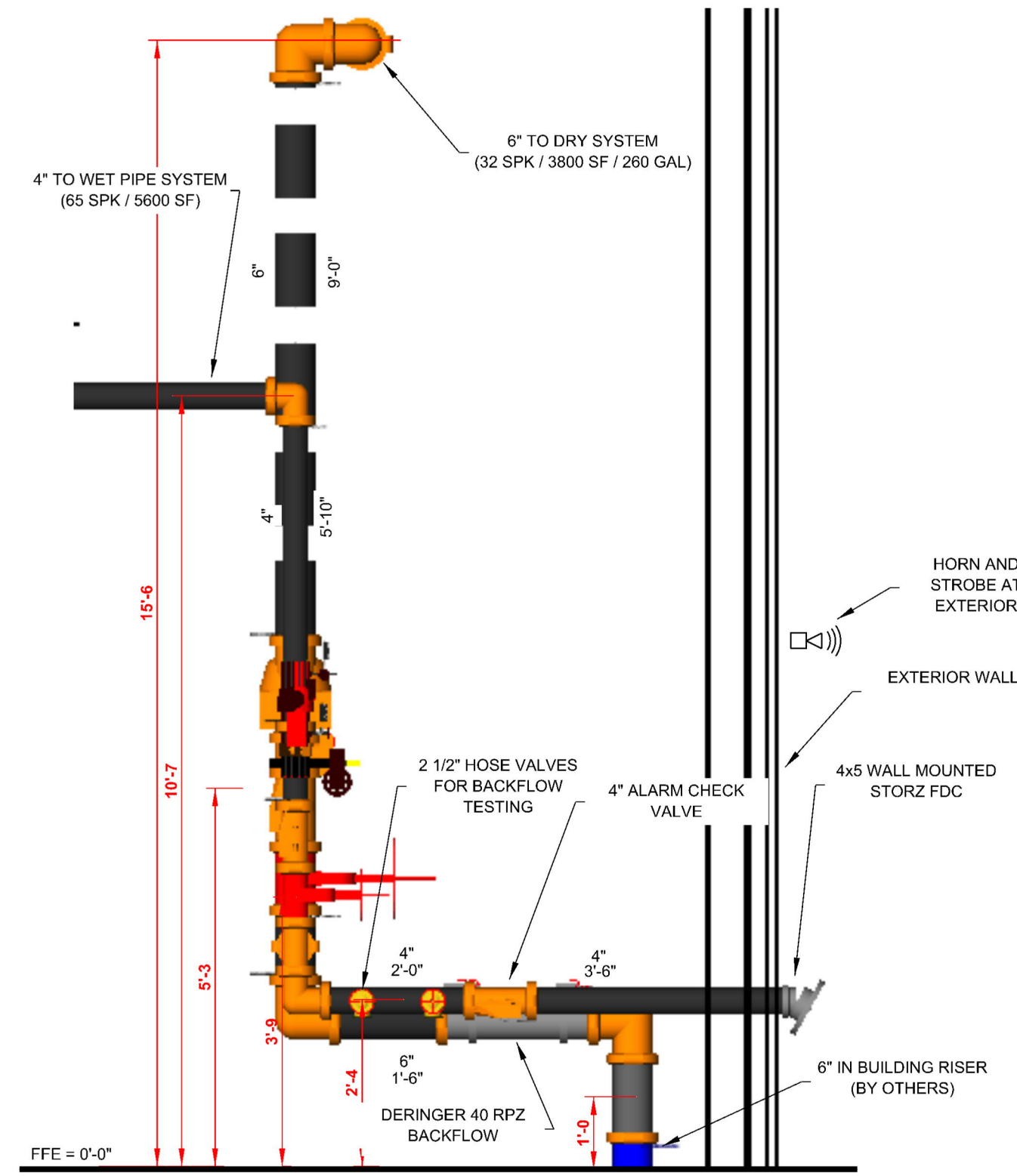
BREAKROOM	
Remote Area 1	
OCCUPANCY CLASSIFICATION	Light Hazard
DENSITY (gpm/ft)	0.10 for 1550ft (Actual 2020ft)
TOTAL HOSE STREAMS	100.0
TOTAL HEADS FLOWING	23
K-FACTOR	5.6
TOTAL WATER REQUIRED	533.1
TOTAL PRESSURE REQUIRED	39.9
BASE OF RISER (gpm)	433.1
BASE OF RISER (psi)	24.7
SAFETY MARGIN (psi)	+9.3 (18.9%)

NOTE: REMOTE AREA INCREASED BY 30% FOR SLOPPED CEILINGS PER NFPA 13 SEC. 11.2.3.2.4

FIRE RISER LEGEND				
Key Note	Size	Description	Quantity	
1	6x6x2	Reducing Tee (BY OTHERS)	1	
2	6	Grooved, 90° Elbow, DL Org	4	
3	6	Rigid Coupling, Org. E Gasket	10	
4	6	Deringer 40 RPZ Backflow	1	
5	4	Grooved Short Radius Tee Org	1	
6	4	Rigid Coupling, Org. E Gasket	12	
7	4	Reliable CRZ Riser Manifold	1	
8	6	Reliable Dry Valve - FX W/ BPTV	1	
9	4	Grooved, 90° Elbow, DL Org	2	

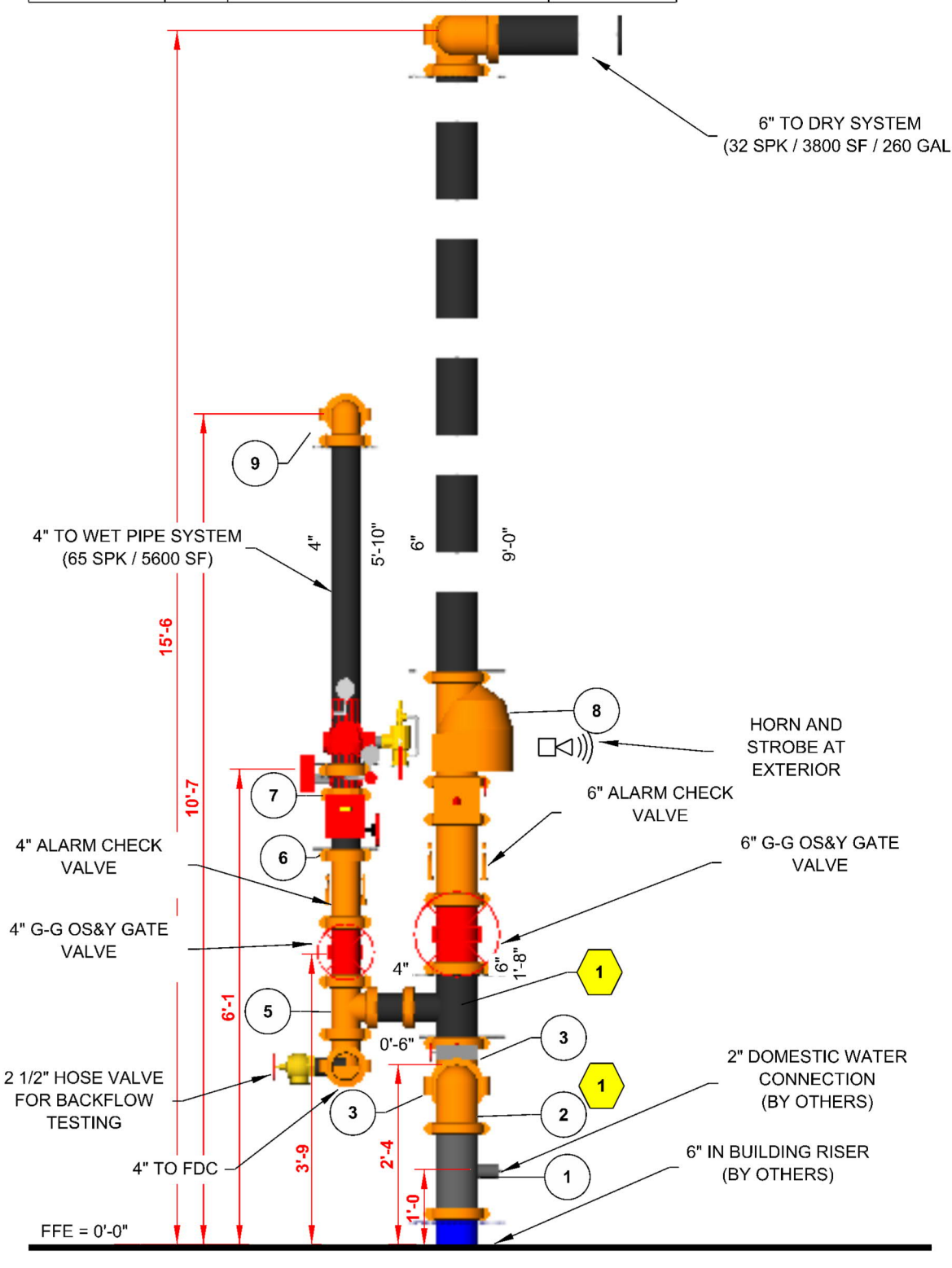
WAREHOUSE 110	
Remote Area 2	
OCCUPANCY CLASSIFICATION	Ordinary Group I
DENSITY (gpm/ft)	0.15 for 2535ft (Actual 2611ft)
TOTAL HOSE STREAMS	250.0
DRY CAPACITY	250gal
TOTAL HEADS FLOWING	23
K-FACTOR	5.6
TOTAL WATER REQUIRED	674.6
TOTAL PRESSURE REQUIRED	34.6
BASE OF RISER (gpm)	424.6
BASE OF RISER (psi)	19.4
SAFETY MARGIN (psi)	+8.7 (20.1%)

NOTE: REMOTE AREA INCREASED BY 30% FOR SLOPPED CEILINGS PER NFPA 13 SEC. 11.2.3.2.4
REMOTE AREA INCREASED BY 30% FOR A DRY SYSTEM PER NFPA 13 SEC. 11.2.3.2.5



B RISER DETAIL

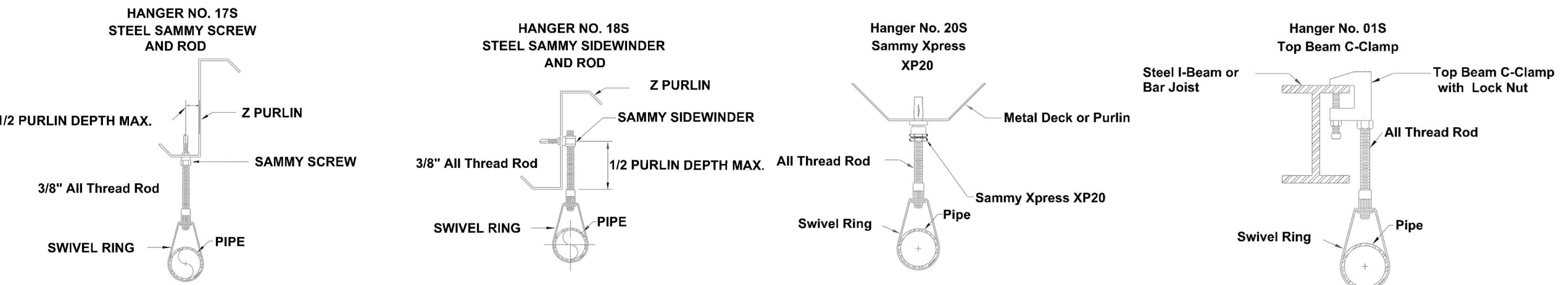
SCALE: 1/2" = 1'-0"



A RISER DETAIL

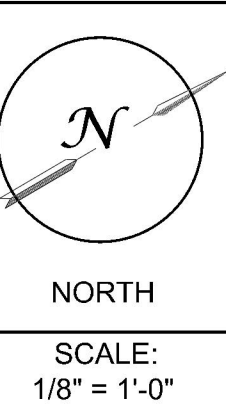
SCALE: 1/2" = 1'-0"

MAXIMUM DISTANCE BETWEEN HANGERS										
NOMINAL PIPE SIZE (in.)	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	5"	6"
STEEL PIPE EXCEPT THREADED LIGHTWALL	12'-0"	12'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"



HANGER DETAILS

Sprinkler Legend - ENTIRE BUILDING										
Symbol	Manufacturer	SIN	Model	Quantity	K-Factor	Type	Size	Response	Finish	Temp
○	Reliable	RA1425	F1FR56	33	5.6	Upright	1/2"	Quick	Brass	200°F
○	Reliable	RA1425	F1FR56	41	5.6	Upright	1/2"	Quick	Brass	200°F
●	Reliable	RA3415	G5-56	21	5.6	Concealed Pendant	1/2"	Quick	Brass	212°F
●	Reliable	R5734	F3OR56 DRY HSW	2	5.6	Horizontal Sidewall	1"	Quick	Chrome	200°F
				Total = 97						



GENERAL SYSTEM INFORMATION	
* ALL THREADED PIPING - SCHEDULE 40	
* ALL GROOVED PIPING - SCHEDULE 10	
* TOTAL AREA PROTECTED BY SYSTEM = 9,400 SF	
* DRY SYSTEM CAPACITY (IF APPLIC.) = N/A	
* OCCUPANCY CLASSIFICATION (U.N.O.) - LIGHT HAZARD	
* ALL PIPING SHALL BE READILY AVAILABLE FOR FLUSHING	

WATER SUPPLY DATA	
STATIC PRESSURE:	60 psi
RESIDUAL PRESSURE:	35 psi
FLOW:	840 gpm
ORIFICE SIZE:	2 1/2"
SIZE & TYPE OF MAIN:	6"
DATE OF FLOW TEST:	4-22-25
TIME OF FLOW TEST:	10:00 a.m.
LOCATION OF TEST:	PINECREST ST

DESIGN CRITERIA	
SEE REMOTE AREA REPORTS	ON PLAN PP-2

REVISIONS	
DATE	
0	

SPRINKLERS	
SEE SPRINKLER LEGEND ON PLANS	

NOTE: ALL SPRINKLERS SHALL BE QUICK RESPONSE UNLESS NOTED OTHERWISE