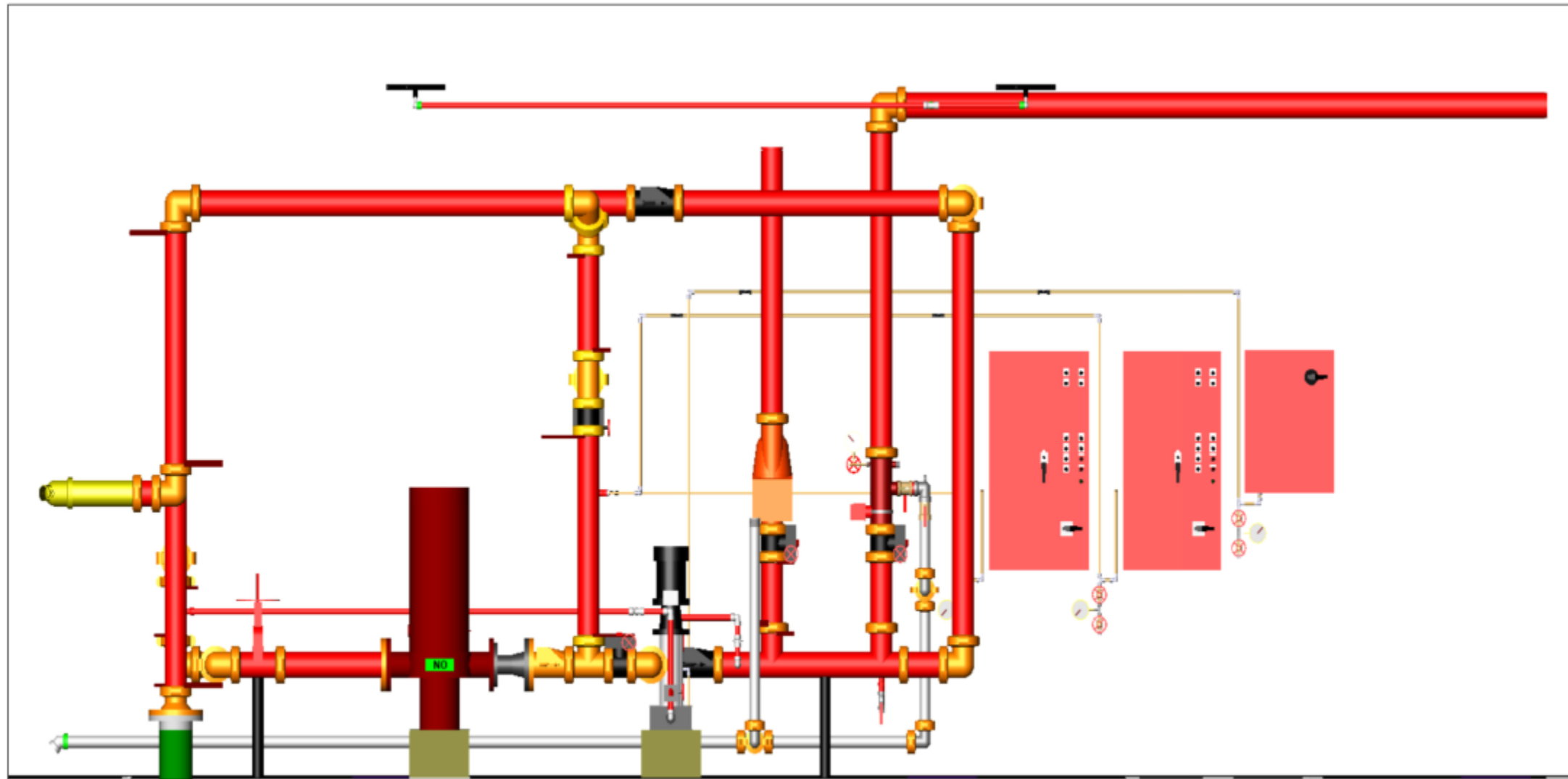


SPRINKLER HEAD LEGEND

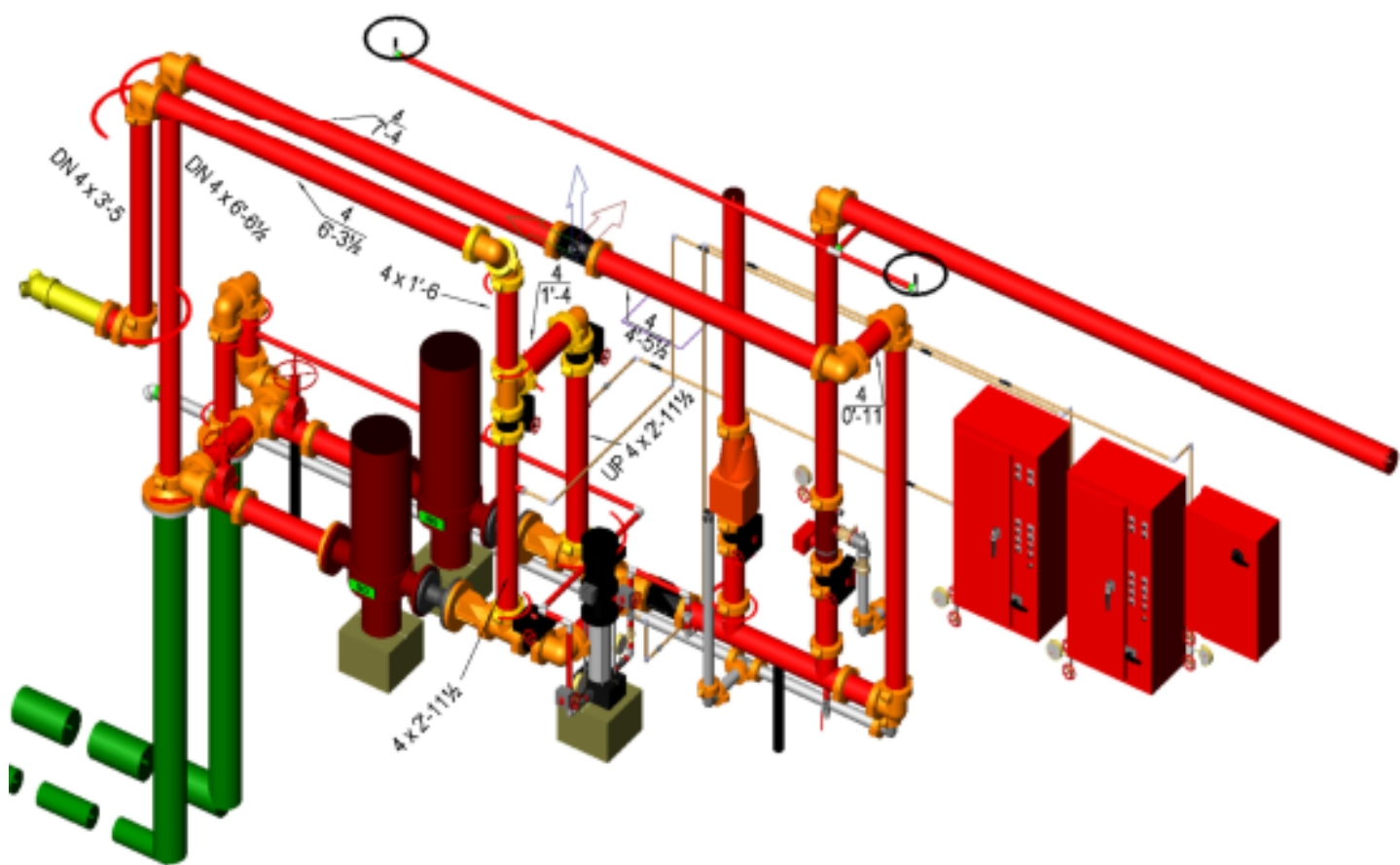
PIPE LEGEND

SYM	QNT	POSITION	FINISH	TEMP	K	NPT	SIN	MFG.	MODEL#	ESCUTCHEON	COVERAGE
39	PENDENT	CHROME	200	5.60	1/2"	TY323	Tyco	TY-FRB	RECESSED	15X15	LIGHT / 130SF ORDINARY
57	SPRIG	BRASS	286	5.60	1/2"	TY313	Tyco	TY-FRB	N/A	15X15	LIGHT / 130SF ORDINARY
2	UPRIGHT	BRASS	286	5.60	1/2"	TY313	Tyco	TY-FRB	N/A	15X15	LIGHT / 130SF ORDINARY
43	PENDENT	CHROME	200	5.60	1"	TY325	Tyco	DS-1	RECESSED	15X15	LIGHT / 130SF ORDINARY
14	SPRIG	BRASS	212	5.60	1/2"	RA4454	Reliable	CC-S	N/A	16X16	
31	UPR	BRASS	200	4.20	1/2"	TY2131	Tyco	TY-FRB	N/A	8X15	UPRIGHT ATTIC SPACING
186	TOTAL										

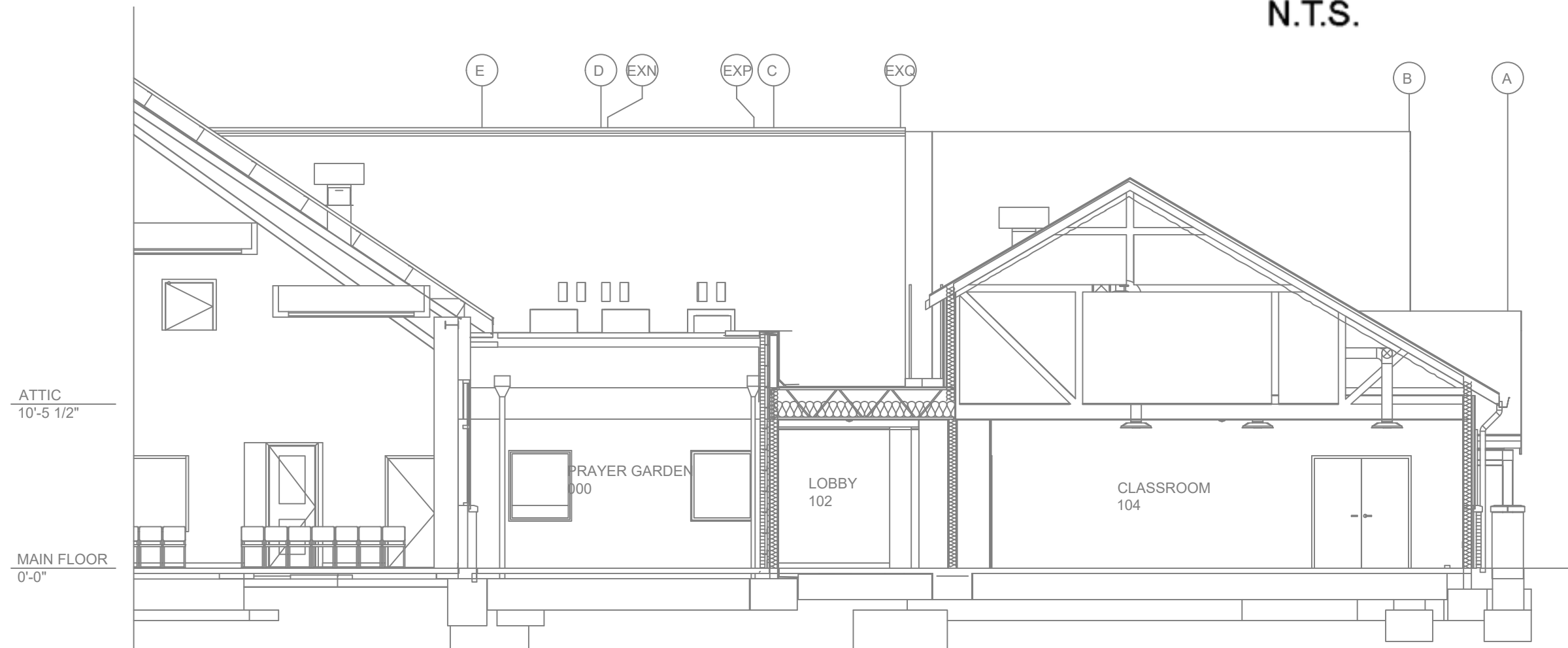
WET SYSTEM BLACK STEEL PIPING
DRY SYSTEM GALV. STEEL PIPING



FRONT VIEW
N.T.S.

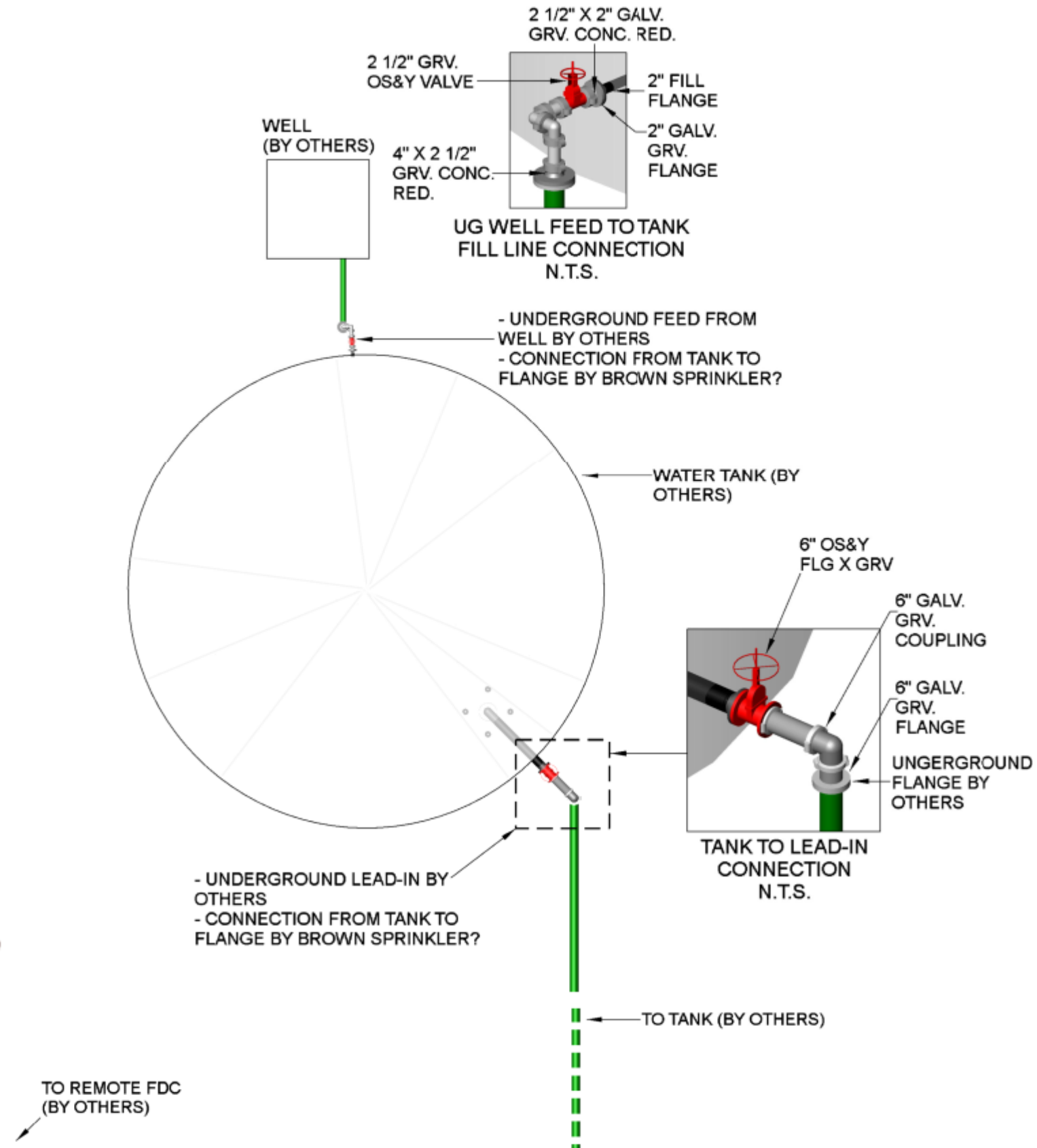


ISOMETRIC VIEW
N.T.S.



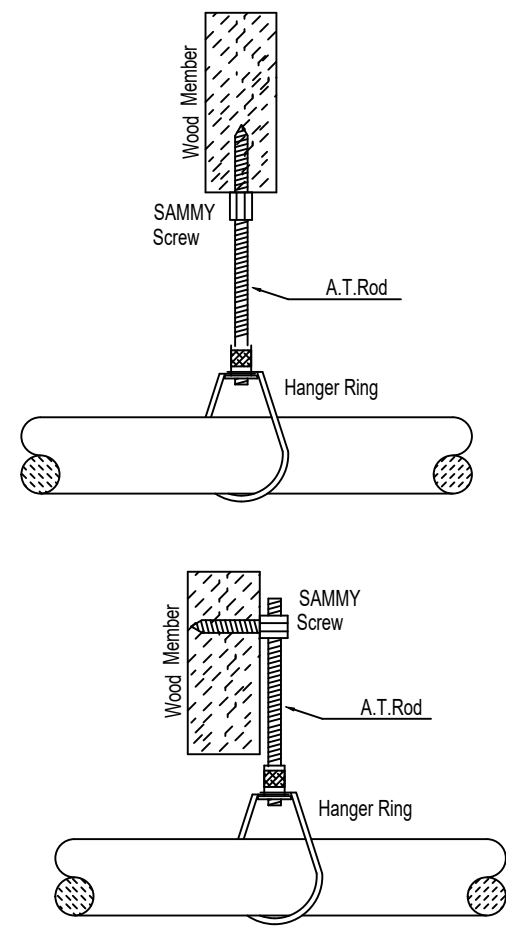
A BUILDING SECTION
SCALE: 1/8" = 1'-0"

ANNUAL PUMP TEST RESULTS	
9/12/2024	
PUMP #1	PUMP #2
RATED CAPACITY: 300GPM	RATED CAPACITY: 300GPM
CHURN 0% (psi): 60.9	CHURN 0% (psi): 60.9
RATED 100% (psi): 50	RATED 100% (psi): 50
PEAK 150% (psi): 37.9	PEAK 150% (psi): 37.9
0% Rated Capacity TEST:	0% Rated Capacity TEST:
NET PRESSURE: 43PSI	NET PRESSURE: 43PSI
GPM: 0	GPM: 0
100% Rated Capacity TEST:	100% Rated Capacity TEST:
NET PRESSURE: 46PSI	NET PRESSURE: 46PSI
GPM: 331	GPM: 331
150% Rated Capacity TEST:	150% Rated Capacity TEST:
NET PRESSURE: 43PSI	NET PRESSURE: 46PSI
GPM: 363	GPM: 363



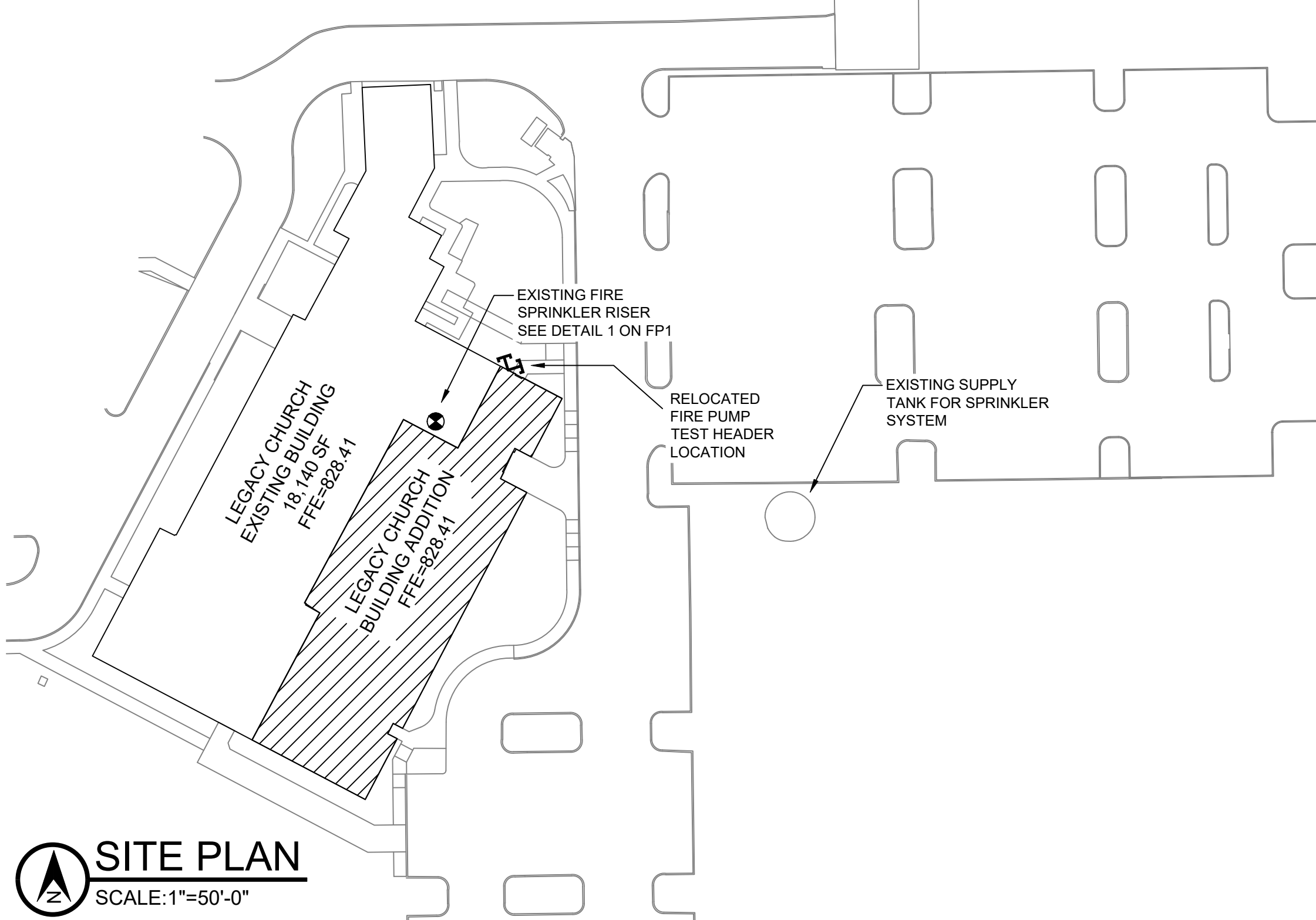
TOP VIEW
SCALE = 1/8" = 1'-0"

1 EXISTING FIRE PUMP DETAIL
FOR REFERENCE ONLY - NO WORK-



NFPA 13 STEEL PIPE HANGER SPACING	
(EXCEPT LIGHT WALL THRD PIPING)	
NOMINAL SIZE inches	MAX SPACING feet
1"	12'-0"
1-1/4"	12'-0"
1-1/2"	15'-0"
2"	15'-0"
2-1/2"	15'-0"
3"	15'-0"
4" & LARGER	15'-0"

HANGER DETAILS



A SITE PLAN
SCALE: 1" = 50'-0"

GENERAL NOTES

- INTERNATIONAL BUILDING CODE (2012)
 - OCCUPANCY: A-3: ASSEMBLY
 - TYPE OF CONSTRUCTION: V-B
 - SPRINKLERED AREAS (APPROXIMATE - SEE ARCHITECTURAL PLANS FOR ACTUAL)
1ST FLOOR ADDITION = 9,467 S.F.
ATTIC ADDITION = 9,488 S.F.
TOTAL ADDITION = 18,955 S.F.
- INSTALLATION STANDARDS:
SPRINKLER SYSTEM DESIGNED AND INSTALLED PER NFPA-13 (2010)
- SPRINKLER PIPE TYPES:
 - WET-
 - 1" BRANCH LINES TO BE BLK SCHEDULE 40 PIPING WITH THREADED FITTINGS
 - 1/2" THROUGH 4" MAIN & BRANCH LINES TO BE BLK SCHEDULE 10 PIPING WITH GROOVED FITTINGS
 - DRY-
 - 1" THROUGH 4" MAINS & BRANCH LINES TO BE THREADED GALV SCHEDULE 40 WITH GALV THREADED FITTINGS
- DESIGN CRITERIA
 - LIGHT HAZARD AREAS DESIGNED TO DELIVER 0.10 GPM/S.F. OVER THE MOST DEMANDING 1500 S.F.
 - ORDINARY HAZARD GROUP 1 AREAS DESIGNED TO DELIVER 0.15 GPM/S.F. OVER THE MOST DEMANDING 1500 S.F.
 - ORDINARY HAZARD GROUP 2 AREAS DESIGNED TO DELIVER 0.20 GPM/S.F. OVER THE MOST DEMANDING 1500 S.F.
 - REMOTE AREA REDUCTIONS HAVE BEEN TAKEN WHERE APPLICABLE PER NFPA 13 SEC. 11.2.3.2.3
- NOTES:
 - ALL MATERIAL TO BE NEW AND MEET U.L. STANDARDS
 - HANGERS TO BE INSTALLED IN ACCORDANCE WITH NFPA 13 (2016) - SEE PLAN FOR HANGING REQ.
 - DRY SYSTEM PIPE SLOPE INSTALLATION:
SPRINKLER MAINS TO BE 1/4" PER 10 FEET
SPRINKLER BRANCH LINES TO BE 1/4" PER 10 FEET
- SYMBOLS USED ON DRAWINGS:
 - 4'-10" PIPE ELEVATION A.F.F
 - 6" PIPE ELEVATION BELOW B.O.D
 - CH ROOM HAZARD CLASSIFICATION (ALL ROOMS ARE CONSIDERED LIGHT HAZARD UNLESS NOTED)
 - FD HYDRAULIC CALCULATION JUNCTION POINT
 - 0'-0" CEILING HEIGHT
- SCOPE OF WORK:
 - DESIGN AND INSTALL NEW SPRINKLER PROTECTION FOR THE NEW CLASSROOM ADDITION, MECHANICAL ATTIC SPACE, COLD ATTIC SPACE AND CONCEALED SPACE OF LOW ROOF AREAS, TYING INTO THE EXISTING WET AND DRY SYSTEMS TO SUPPLY THE NEW AREAS AS REQUIRED.
 - ALL AREAS OF THE BUILDING TO BE INSTALLED AND COVERED IN ACCORDANCE WITH THE LOCAL AUTHORITY HAVING JURISDICTION AND PER NFPA 13 (2010)

LEGACY CHURCH ADDITION
13490 HOWE ROAD, FISHERS, IN 46038
SPRINKLER PLAN

NORTH	
DESIGNER	AMM
SCALE	AS NOTED
CHECK BY	JASON BOSMA NICET 143240
STATE PROJECT #:	448678
APPROVAL	STATE & LOCAL
DATE	3/28/25
DRAWING NO.	FP-1

Symbols	
Symbol	Description
(01)	Hydraulic Reference Points
4'-10"	Elev. Above Finished Floor
0'-0"	Ceiling Height

SEE FP2 & FP3

REVISION

DATE	DESCRIPTION	BY

CONTRACTOR:	
ADDRESS:	

IMPORTANT
TO PREVENT FREEZING OF WATER IN WET PIPE SPRINKLER PIPING,
OWNERS TO PROVIDE SUFFICIENT HEAT THROUGHOUT AREAS WHERE
SPRINKLER PIPES ARE INSTALLED, UNLESS AN ANTI-FREEZE SYSTEM.

SPRINKLER HEAD LEGEND

SYM	CNT	POSITION	FINISH	TEMP	K	NPT	SIN	MFG	MODEL#	ESCUICHEON	COVERAGE
●	39	PENDENT	CHROME	200	5.60	1/2"	TY323	Tyco	TY-FRB	RECESSED	15'X15' LIGHT / 130SF ORDINARY
○	57	SPRIG	BRASS	286	5.60	1/2"	TY313	Tyco	TY-FRB	N/A	15'X15' LIGHT / 130SF ORDINARY
○	2	UPRIGHT	BRASS	286	5.60	1/2"	TY313	Tyco	TY-FRB	N/A	15'X15' LIGHT / 130SF ORDINARY
●	43	PENDENT	CHROME	200	5.60	1"	TY3255	Tyco	DS-1	RECESSED	15'X15' LIGHT / 130SF ORDINARY
○	14	SPRIG	BRASS	212	5.60	1/2"	RA4454	Reliable	CC-S	N/A	16'X16'
○	31	UPR	BRASS	200	4.20	1/2"	TY2131	Tyco	TY-FRB	N/A	8'X15' UPRIGHT ATTIC SPACING
	186	TOTAL									

PIPE LEGEND

WET SYSTEM BLACK STEEL PIPING
DRY SYSTEM GALV. STEEL PIPING

Design Area #: 1 HAZARD: LIGHT
Zone: System Type: WET
Location: CLASSROOM 106

Flowing Outlets: 10
Density: 0.10 Remote Area: 900
Req'd @ Base of Riser
Flow 172.1 gpm @ 20.3 psi
Req'd @ Source
Flow 172.1 gpm @ 62.5 psi
Calculation Safety: 40.4 psi
Includes gpm Hose allowance

NOTE: DESIGN AREA REDUCED BY 40% TO 900SF PER 11.2.3.2.3

MAIN FLOOR PLAN

SCALE: 1/8" = 1'-0" TOS - 10'-5 1/2"

HYDRAULIC DESIGN DATA

SEE FP2 & FP3

REVISION

DATE	DESCRIPTION	BY

CONTRACTOR:

ADDRESS:

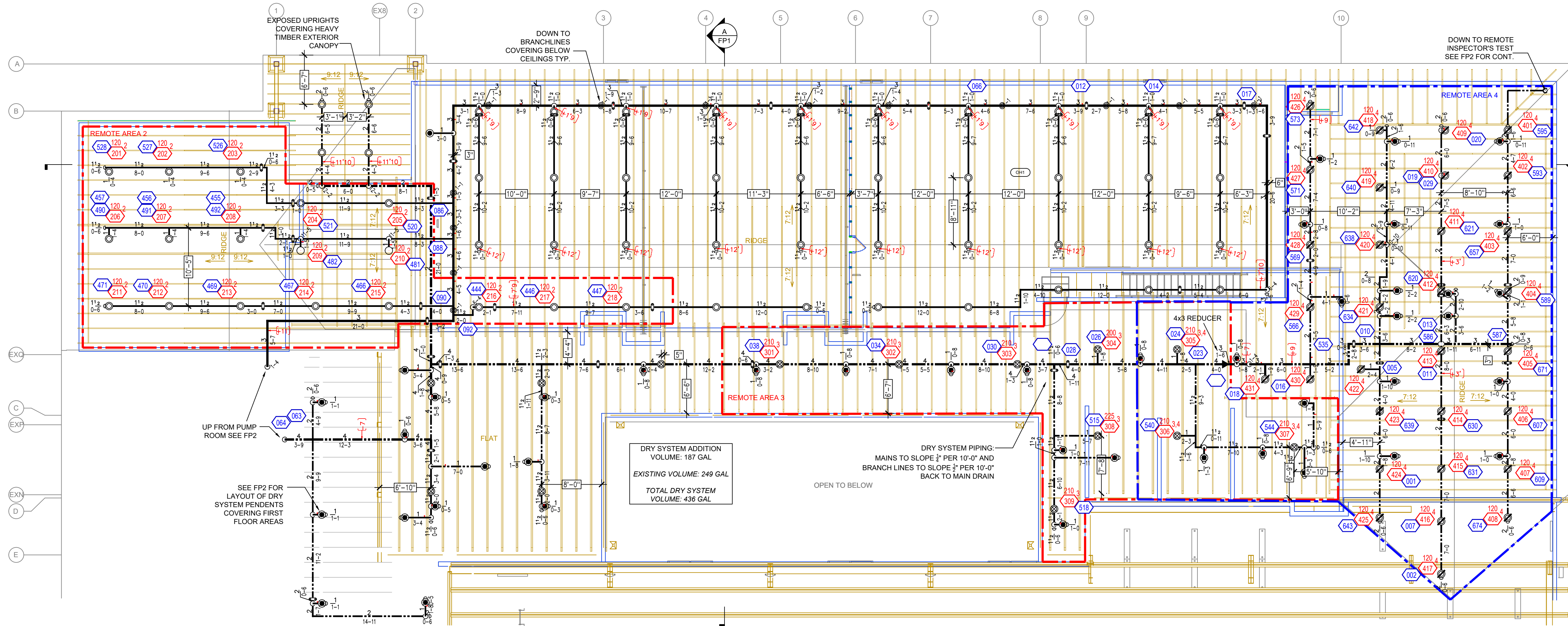
LEGACY CHURCH ADDITION
13490 HOWE ROAD, FISHERS, IN 46038

SPRINKLER PLAN

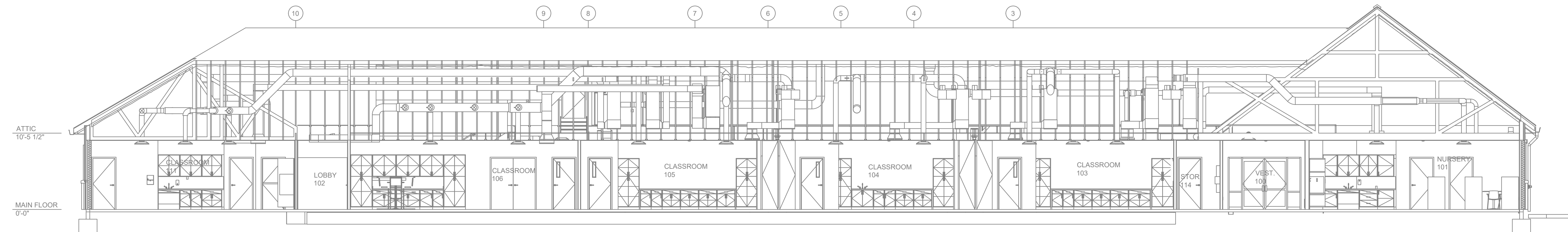
NORTH

DESIGNER	AMM
SCALE	1/8" = 1'-0"
CHECK BY	JASON BOSMA NICET 143240
STATE PROJECT #:	448678
APPROVAL	STATE & LOCAL
DATE	3/28/25
DRAWING NO.	FP-2

IMPORTANT
TO PREVENT FREEZING OF WATER IN WET PIPE SPRINKLER PIPING,
OWNERS TO PROVIDE SUFFICIENT HEAT THROUGHOUT AREAS WHERE
SPRINKLER PIPES ARE INSTALLED, UNLESS AN ANTI-FREEZE SYSTEM.



ATTIC PLAN
SCALE: 1/8" = 1'-0"
TOS - VARIES



BUILDING SECTION
SCALE: 1/8" = 1'-0"

SPRINKLER HEAD LEGEND

SYM	CNT	POSITION	FINISH	TEMP	K	NPT	SIN	MFG	MODEL#	ESCUTCHEON	COVERAGE
●	39	PENDENT	CHROME	200	5.60	1/2"	TY323	Tycos	TY-FRB	RECESSED	15X15' LIGHT / 130SF ORDINARY
○	57	SPRIG	BRASS	286	5.60	1/2"	TY313	Tycos	TY-FRB	N/A	15X15' LIGHT / 130SF ORDINARY
○	2	UPRIGHT	BRASS	286	5.60	1/2"	TY313	Tycos	TY-FRB	N/A	15X15' LIGHT / 130SF ORDINARY
●	43	PENDENT	CHROME	200	5.60	1"	TY325	Tycos	DS-1	RECESSED	15X15' LIGHT / 130SF ORDINARY
○	14	SPRIG	BRASS	212	5.60	1/2"	RA4454	Rollable	CC-S	N/A	16X16'
○	31	UPR	BRASS	200	4.20	1/2"	TY2131	Tycos	TY-FRB	N/A	8'X15' UPRIGHT ATTIC SPACING
	186	TOTAL									

PIPE LEGEND

WET SYSTEM BLACK STEEL PIPING
DRY SYSTEM GALV. STEEL PIPING

CALC PLACARD

Design Area # 2 HAZARD: OH-1
Zone: System Type: WET
Location: MECHANICAL ATTIC
Flowing Outlets: 18
Density: 0.15 Remote Area: 1375
Req'd @ Base of Riser
Flow 400.1 gpm @ 43.5 psi
Req'd @ Source
Flow 400.1 gpm @ 56.8 psi
Calculation Safety: 9.7 psi
Includes gpm Hose allowance

NOTE: DESIGN AREA (1500 SF) INCREASED BY 30% (1950 SF) DUE TO PITCH EXCEEDING 1 IN 6, AND THEN REDUCED 29.5% FOR 17'-0" CEILING HEIGHT AND USE OF OR HEADS. FINAL DESIGN AREA 1375SF

Design Area #3 HAZARD: LIGHT
Zone: System Type: DRY
Location: CC SPACE OF LOW ROOF
Flowing Outlets: 9
Density: 0.10 Remote Area: 1000
Req'd @ Base of Riser
Flow 211.6 gpm @ 24.1 psi
Req'd @ Source
Flow 211.6 gpm @ 61.8 psi
Calculation Safety: 35.3 psi
Includes gpm Hose allowance

NOTE: DESIGN AREA OF 9 SPRINKLERS CALCULATED PER SPRINKLER CUT SHEET REQUIREMENTS FOR DRY SYSTEMS WITH NO DRAFT CURTAINS.

CALC PLACARD

Design Area #1 HAZARD: LIGHT
Zone: System Type: DRY
Location: COLD ATTIC SPACE
Flowing Outlets: 34
Density: 0.10 Remote Area: 2535
Req'd @ Base of Riser
Flow 512.4 gpm @ 39 psi
Req'd @ Source
Flow 512.4 gpm @ 52.6 psi
Calculation Safety: 8.7 psi
Includes gpm Hose allowance

NOTE: DESIGN AREA 2535 = 1500 x 1.3 x 1.3 FOR DRY SYSTEM AND SLOPED CEILING INCREASES PER 11.2, 3.2.4 & 11.2, 3.2.5

Symbol	Description
○1	Hydraulic Reference Points
+6'-10"	Elev. Above Finished Floor
0'-0"	Ceiling Height

HYDRAULIC DESIGN DATA	
SEE FP2 & FP3	

REVISION		
DATE	DESCRIPTION	BY

CONTRACTOR:
ADDRESS:
IMPORTANT TO PREVENT FREEZING OF WATER IN WET PIPE SPRINKLER PIPING, OWNERS TO PROVIDE SUFFICIENT HEAT THROUGHOUT AREAS WHERE SPRINKLER PIPES ARE INSTALLED, UNLESS AN ANTI-FREEZE SYSTEM.

LEGACY CHURCH ADDITION
13490 HOWE ROAD, FISHERS, IN 46038
SPRINKLER PLAN

NORTH
DESIGNER: AMM
SCALE: 1/8" = 1'-0"
CHECK BY: JASON BOSMA NICET 143240
STATE PROJECT #: 448678
APPROVAL: STATE & LOCAL
DATE: 3/28/25
DRAWING NO. **FP-3**