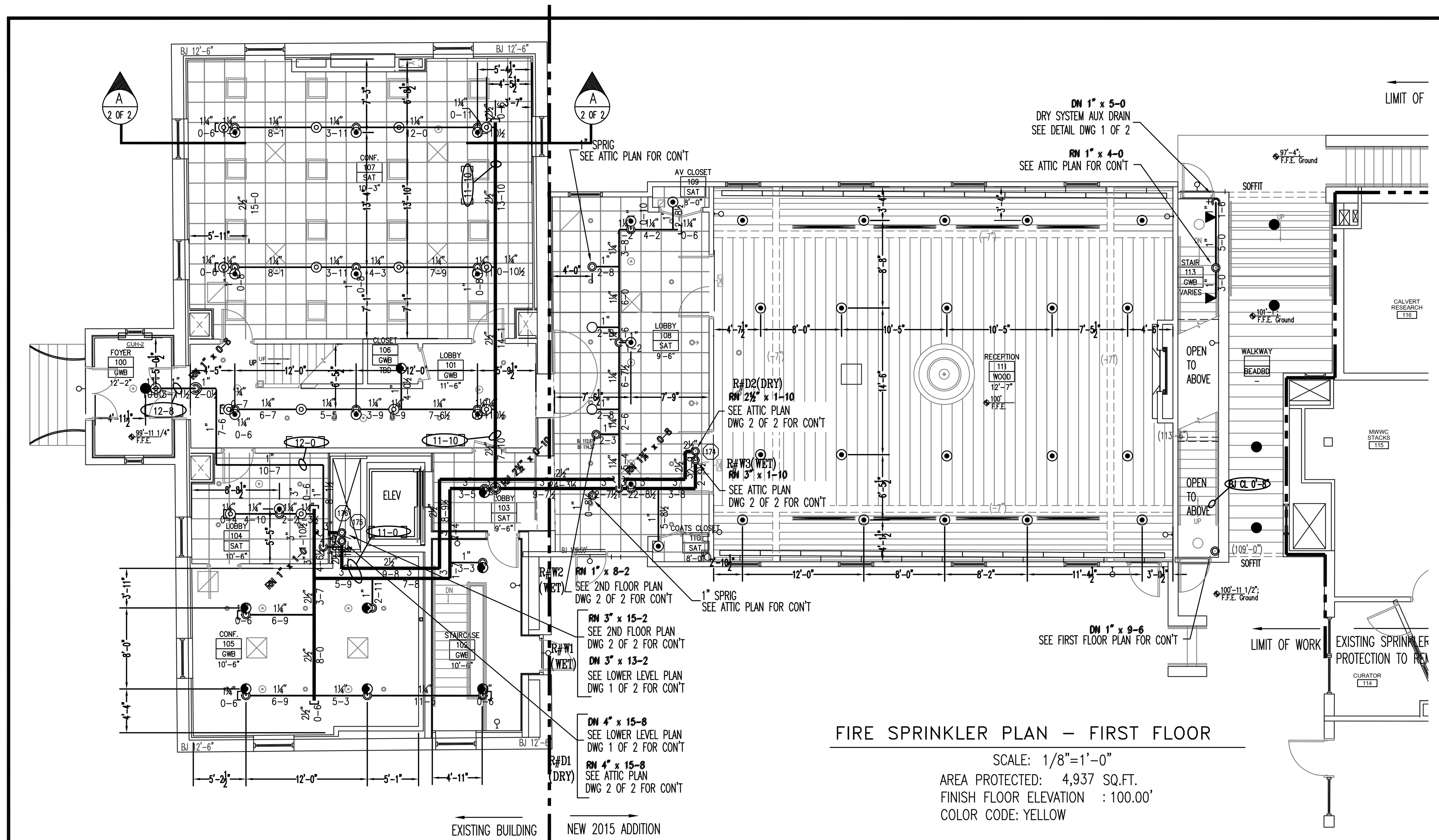


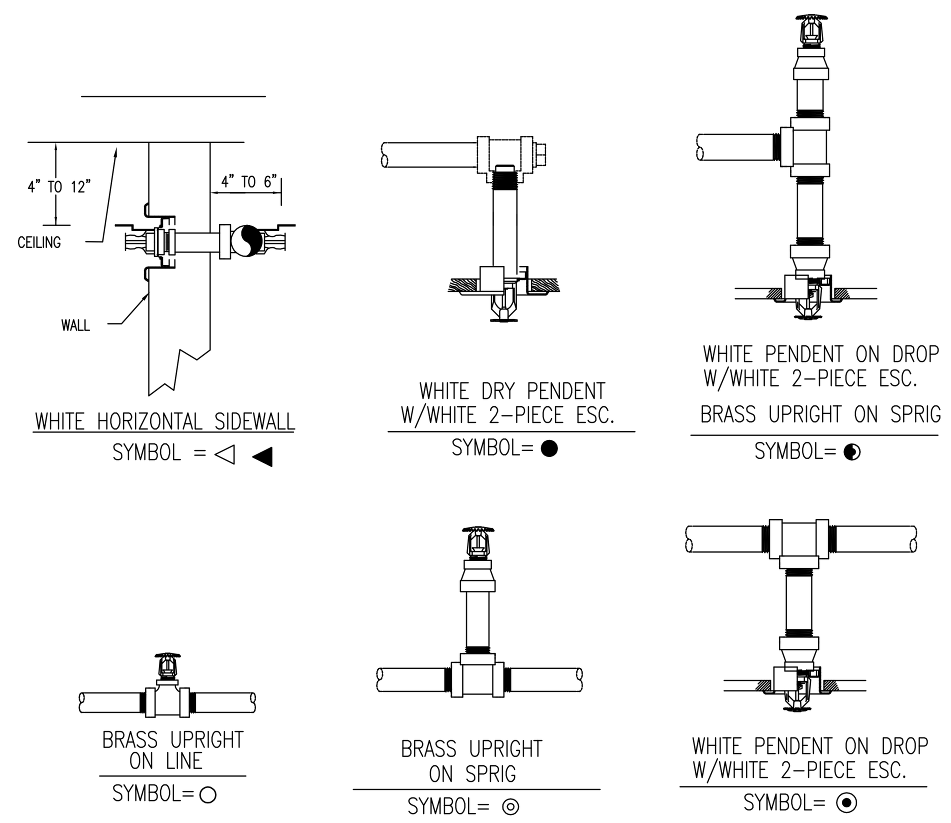
FIRE SPRINKLER PLAN – FIRST FLOOR

SCALE: 1/8"=1'-0"
AREA PROTECTED: 4,937 SQ.FT.
FINISH FLOOR ELEVATION : 100.00'
COLOR CODE: YELLOW

Sprinkler Head Schedule

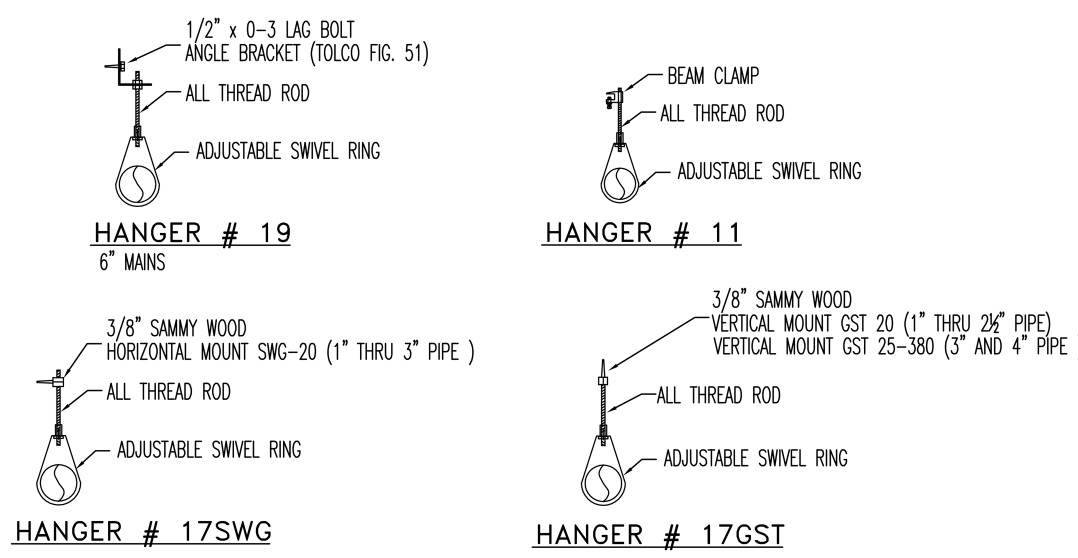
Symbol	Count	Thread	SIN#	K-FACTOR	TEMP	Description	Note
○	2	1/2"	RA1425	5.6	200°	RELIABLE F1FR 56 BRASS UPRIGHT	ON LINE
◎	18	1/2"	RA1425	5.6	200°	RELIABLE F1FR 56 BRASS UPRIGHT	ON SPRIG
⦿	18	1/2"	RA1414	5.6	200°	RELIABLE F1FR 56 WHITE PENDENT W/WHITE RECESSED ESCUTCHEON	ON DROP
◐	4 4	1/2" 1/2"	RA1414 RA1425	5.6 5.6	200° 200°	RELIABLE F1FR 56 WHITE PENDENT W/WHITE RECESSED ESCUTCHEON RELIABLE F1FR 56 BRASS UPRIGHT	ABOVE/ BELOW ON DROP ON SPRIG
◀	2	1/2"	RA1435	5.6	200°	RELIABLE F1FR 56 WHITE HORZ SIDEWALL	
●	25	1"	R5714	5.6	200°	RELIABLE F3QR WHITE DRY RECESSED F1 PENDENT	

73 = Total Number of Heads FIRST FLOOR



SPRINKLER HEAD DETAILS

NOT TO SCALE



HANGER DETAILS

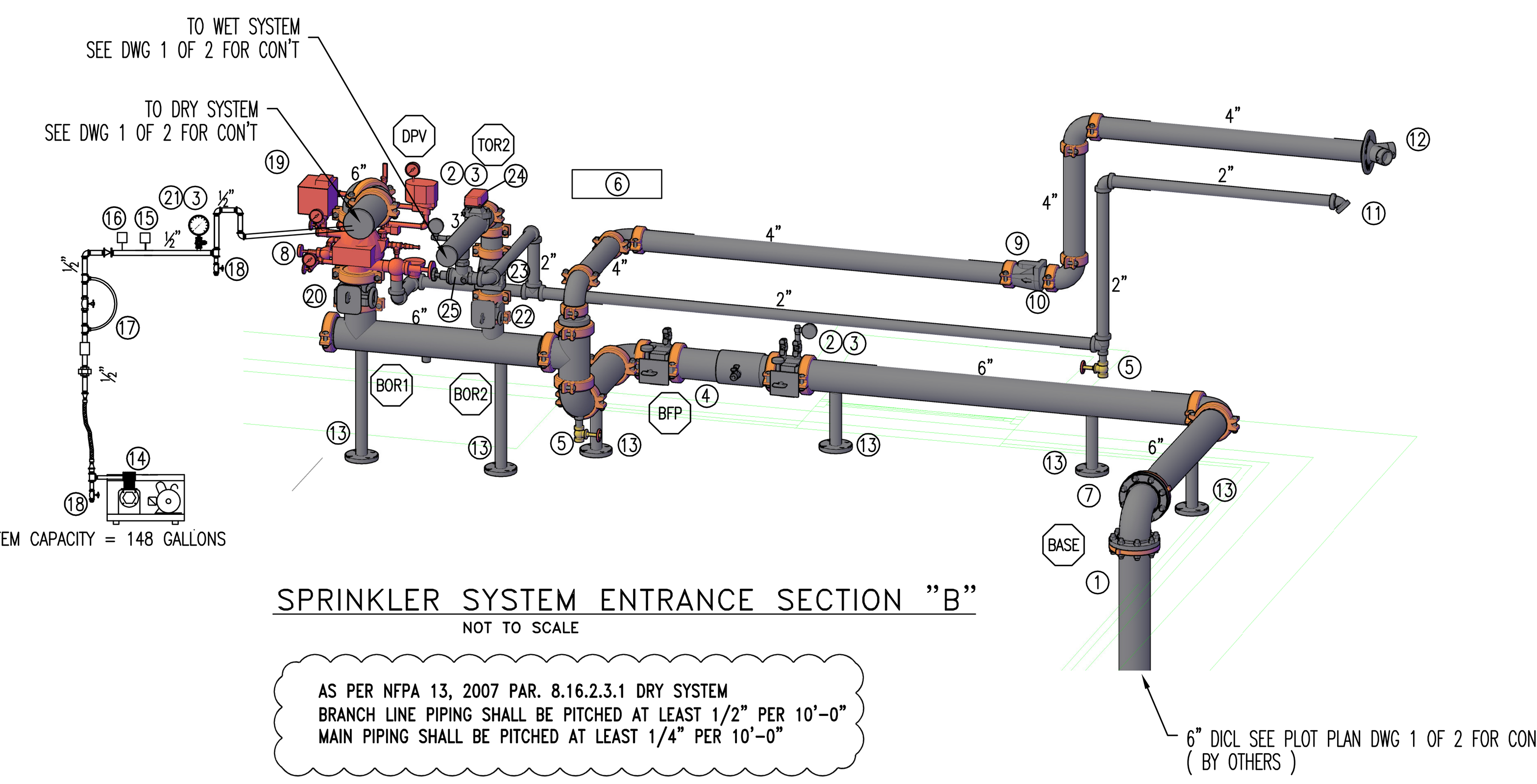
NOT TO SCALE

ALL HANGERS TO BE PROVIDED AND INSTALLED AS PER NFPA #13R AND 13.
* 3/8" ROD FOR 1" TO 4" PIPE
* 1/2" ROD FOR 5" TO 8" PIPE

LEGEND

1. 6" DICL BY OTHERS (SEE PLOT PLAN DWG 1 OF 2 FOR CON'T)
2. WATER PRESSURE GAUGE (0-300 PSI)
3. 1/4" 3-WAY VALVE
4. 6" AMES M200-BFG BACKFLOW PREVENTER GRVD BUTTERFLY VALVES (N.O.) W/TAMPER SWITCHES
5. 1" AUX. DRAIN
6. HEAD BOX 12 SPARE HEADS AND HEAD WRENCH
7. 6" FLANGED ELL 90°
8. 6" TYCO DPV-1 DRY PIPE VALVE GxG
9. 4" GROOVED CHECK VALVE
10. ½" BALL DRIP VALVE
11. 2" MAIN DRAIN DISCHARGE (SEE LOWER LEVEL PLAN DWG 1 OF 2
12. 4 x 2½ x 2½ FIRE DEPT CONNECTION (SEE LOWER LEVEL PLAN DWG 1 OF 2)
13. PIPE STAND
14. JENNY AIR COMPRESSOR MODEL F12S-BS 1/2 HP, 115/230 V SINGLE PHASE
15. FURNAS AIR COMPRESSOR AUTOMATIC ON-OFF SWITCH (MOD.69WA4B)
16. POTTER LOW AIR PRESSURE SWITCH (PS40-2)
17. DRY PIPE VALVE AIR LINE BY-PASS W/ LOAD GENIE
18. ½" DRIP LEG W/VALVE
19. POTTER PS-10 PRESSURE SWITCH
20. 6" TYCO GROOVED BUTTERFLY VALVE WITH TAMPER SWITCH BFV-N (N.O.)
21. AIR PRESSURE GAUGE
22. 4" TYCO GROOVED BUTTERFLY VALVE WITH TAMPER SWITCH BFV-N (N.O.)
23. 4" TYCO GROOVED RISER CHECK VALVE CV-1F
24. 4" POTTER FLOW SWITCH VSR-4
25. 2" TEST AND DRAIN VALVE W/ 1/2" ORFICE

ALL WIRING BY OTHERS.
N.O. = NORMALLY OPEN
N.C. = NORMALLY CLOSED

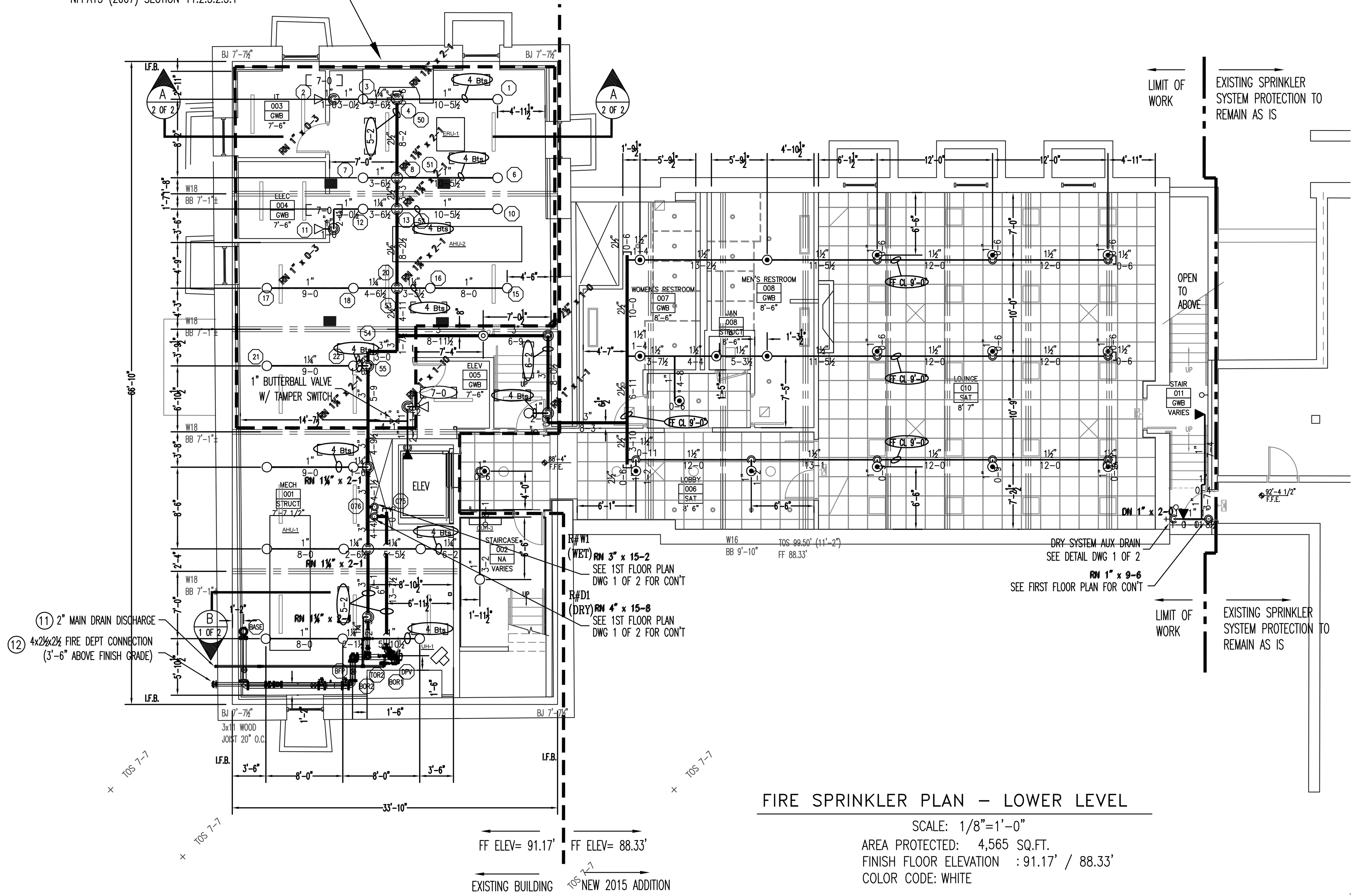


SPRINKLER SYSTEM ENTRANCE SECTION "B"

NOT TO SCALE

AS PER NFPA 13, 2007 PAR. 8.16.2.3.1 DRY SYSTEM
BRANCH LINE PIPING SHALL BE PITCHED AT LEAST 1/2" PER 10'-0"
MAIN PIPING SHALL BE PITCHED AT LEAST 1/4" PER 10'-0"

(LOWER LEVEL)
PROOF CALC
(.15 GPM/SQ.FT. / 1090 SQ FT)
(ELEV. @ HIGHEST HEAD = 98.00')
REMOTE AREA HAS BEEN MODIFIED IN ACCORDANCE NFPA13 (2007) SECTION 11.2.3.2.3.1



FIRE SPRINKLER PLAN – LOWER LEVEL

SCALE: 1/8"=1'-0"
AREA PROTECTED: 4,565 SQ.FT.
FINISH FLOOR ELEVATION : 91.17' / 88.33'
COLOR CODE: WHITE

GENERAL NOTES

ALL WIRING TO BE DONE BY OTHERS

ALL PAINTING TO BE DONE BY OTHERS

PENDENT SPRINKLER HEADS TO BE INSTALLED CENTERLINE OF ACOUSTICAL CEILING PANELS

SPRINKLER SYSTEM INSTALLATION TO COMPLY WITH NFPA PAMPHLET # 13 (2007 EDITION) AND SPECIFICATION SECTION 211000

ALL DIMENSIONS ARE SHOWN FOR GENERAL LOCATION OF SPRINKLER HEADS ; PIPING MAY VARY TO SUIT ACTUAL FIELD CONDITIONS.

ACOUSTICAL CEILING TILE (ACT) TO BE LISTED NON-COMBUSTIBLE WITH UL FLAME SPREAD OF LESS THAN 25.

OCCUPANCY DESCRIPTION AND CLASSIFICATION: OFFICES, BATHROOMS, LOUNGE, AND CONFERENCE: LIGHT HAZARD STORAGE, AND MECHANICAL SPACES ORDINARY HAZARD I

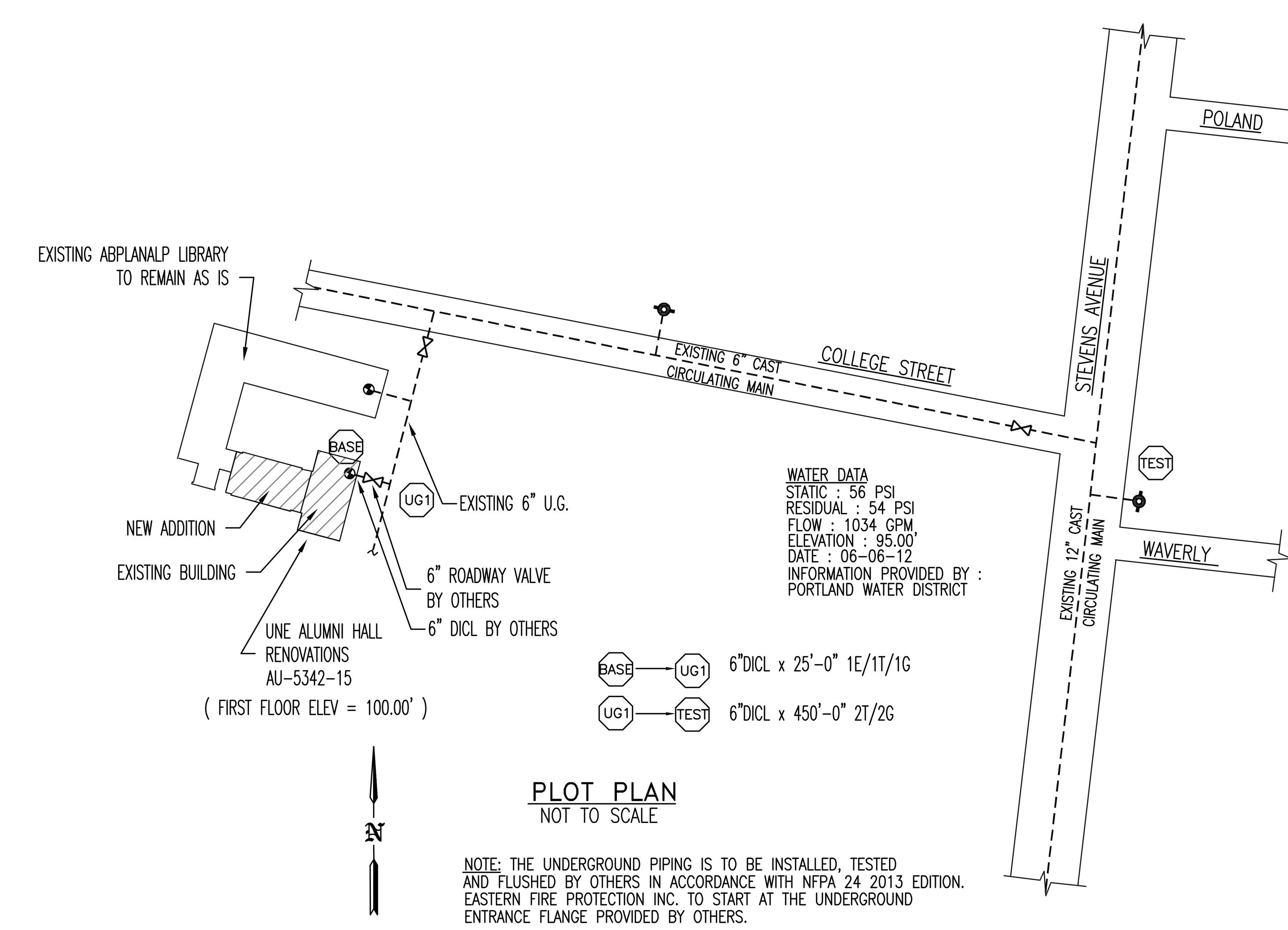
STORAGE OF MATERIAL SHALL NOT EXCEED 8'-0" IN HEIGHT.

OFG INDICATES OUTSIDE FACE OF GIRT.

⬡ = INDICATES HYDRAULIC REFERENCE POINTS.

F.F. ℄ INDICATES FINISH FLOOR UP TO CENTERLINE OF PIPE.

D ℄ INDICATES DECK DOWN TO CENTERLINE OF PIPE.



PLOT PLAN

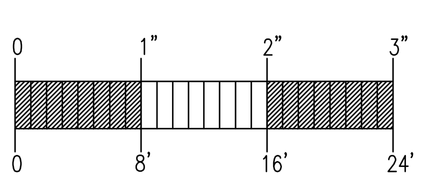
NOT TO SCALE

NOTE: THE UNDERGROUND PIPING IS TO BE INSTALLED, TESTED AND FLUSHED BY OTHERS IN ACCORDANCE WITH NFPA 24 2013 EDITION. EASTERN FIRE PROTECTION INC. TO START AT THE UNDERGROUND ENTRANCE FLANGE PROVIDED BY OTHERS.

Sprinkler Head Schedule

Symbol	Count	Thread	SIN#	K-FACTOR	TEMP	Description	Note
○	23	1/2"	RA1425	5.6	200°	RELIABLE F1FR 56 BRASS UPRIGHT	ON LINE
◎	1	1/2"	RA1425	5.6	200°	RELIABLE F1FR 56 BRASS UPRIGHT	ON SPRIG
⦿	18	1/2"	RA1414	5.6	200°	RELIABLE F1FR 56 WHITE PENDENT W/WHITE RECESSED ESCUTCHEON	ON DROP
◁	3	1/2"	RA1435	5.6	200°	RELIABLE F1FR 56 WHITE HORZ SIDEWALL W/WHITE RECESSED ESCUTCHEON	
◀	3	1/2"	RA1435	5.6	200°	RELIABLE F1FR 56 WHITE HORZ SIDEWALL	

48 = Total Number of Heads LOWER LEVEL



1/8"=1'-0"GRAPHIC SCALE

GENERAL NOTES	DATE	REVISIONS	REQUIRED APPROVALS
SPRINKLER SYSTEM INSTALLATION TO COMPLY WITH NFPA PAMPHLET #13 (2007) AND SPECIFICATION SECTION 21100. BRANCH LINE PIPING 1" THRU 2" TO BE BLACK STEEL SCHEDULE 40 JOINED BY THREADED DUCTILE IRON FITTINGS. MAIN PIPING 2½" THRU 6" TO BE BLACK STEEL SCHEDULE 10 WITH GROOVED ENDS & WELDED OUTLETS JOINED BY MECHANICAL COUPLINGS. OWNER TO PROVIDE SUFFICIENT HEAT THROUGHOUT BUILDING TO PREVENT FREEZING OF WATER FILLED SPRINKLER PIPING AND EQUIPMENT. (MIN 40° F). EXCEPT FOR UNHEATED SPACES WHICH WILL BE PROTECTED WITH A DRY PIPE SYSTEM.			OWNER / ARCHITECT STATE FIRE MARSHAL PORTLAND FIRE DEPT DRAWN BY GRD NICET LEVEL III CERT.# 09388 CHECKED BY WAF NICET LEVEL III CERT.# 095574 CONTRACTOR LICENSE # 101 CONTRACTOR RMS # 368

UNE ALUMNI HALL RENOVATIONS

PORTLAND, ME

CONTRACT WITH: CONSIGLI

EASTERN FIRE PROTECTION
AUBURN/LEWISTON INDUSTRIAL AIRPARK, AUBURN, MAINE 04210

FIRE SPRINKLER PLANS & DETAILS
DWG. NO. 1 OF 2
JOB NUMBER AU-5342-15
SCALE AS NOTED
DATE 11/19/15