

GENERAL NOTES

- INTERNATIONAL BUILDING CODE (2018)
 - OCCUPANCY: **TYPE B, S-1, S-2, A-3**
 - TYPE OF CONSTRUCTION: **I-B**
 - SPRINKLERED AREAS (APPROXIMATE - SEE ARCHITECTURAL PLANS FOR ACTUAL)

GROUND FLOOR	= 15,421 S.F.
1ST FLOOR	= 54,786 S.F.
2ND FLOOR	= 53,245 S.F.
3RD FLOOR	= 32,703 S.F.
4TH FLOOR	= 32,703 S.F.
PENTHOUSE	= 13,338 S.F.
TOTAL	= 162,199 S.F.
 - INSTALLATION STANDARDS:

SPRINKLER SYSTEM DESIGNED AND INSTALLED PER	NFPA-13 (2016), NFPA-14(2016), NFPA-20 (2016)
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- SPRINKLER PIPE TYPES:

WET:	
2.1	1" BRANCH LINES TO BE BLK SCHEDULE 40 PIPING WITH THREADED FITTINGS
2.2	1/2" THROUGH 2" BRANCH LINES TO BE BLK SCHEDULE 40 PIPING WITH GROOVED FITTINGS
2.3	3" AND LARGER TO BE BLK SCHEDULE 10 PIPING WITH GROOVED FITTINGS
2.4	MAINS & BRANCH LINES TO BE ROLL-GROOVED BLK SCHEDULE 10 PIPING - DRY & PRE-ACTION
2.5	1" BRANCH LINES TO BE THREADED GALV SCHEDULE 40 WITH GALV THREADED FITTINGS
2.6	1/2" THROUGH 3" MAIN & BRANCH LINES TO BE GROOVED GALV SCHEDULE 40 WITH GALV GROOVED FITTINGS
- DESIGN CRITERIA
 - OFFICES, CORRIDORS, LOBBIES AND SIMILAR TO BE LIGHT HAZARD AREAS
 - MECHANICAL AND ELECTRICAL ROOMS, KITCHENS, LAUNDRIES AND SIMILAR TO BE ORDINARY HAZARD GROUP 1
 - TRASH ROOMS, STORAGE CLOSEST AND SIMILAR TO BE ORDINARY HAZARD GROUP 2
 - GENERATOR ROOMS TO BE EXTRA HAZARD GROUP 2
 - ESFR SPRINKLER SYSTEM TO PROTECT WAREHOUSE
 - STORAGE ALLOW TO BE 0FT HIGH GLASS HV COMMODITIES AND GROUP A PLASTICS IN SINGLE-DOUBLE AND MULTIPLE ROW RACKS. NO SOLID SHELVES OR OPEN TOP CONTAINERS ALLOWED.
 - 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 1/2" PER 10 FEET
 - DRY SYSTEM CAPACITY**

4.4.1	46.7 GAL
4.4.2	DUE TO BEING LESS THAN 500 GALLONS NO QUICK OPENING DEVICE AND NO DELIVERY TIME REQUIRED PER NFPA 13 7.2.3.3
 - PRE-ACTION SYSTEM VOLUME**

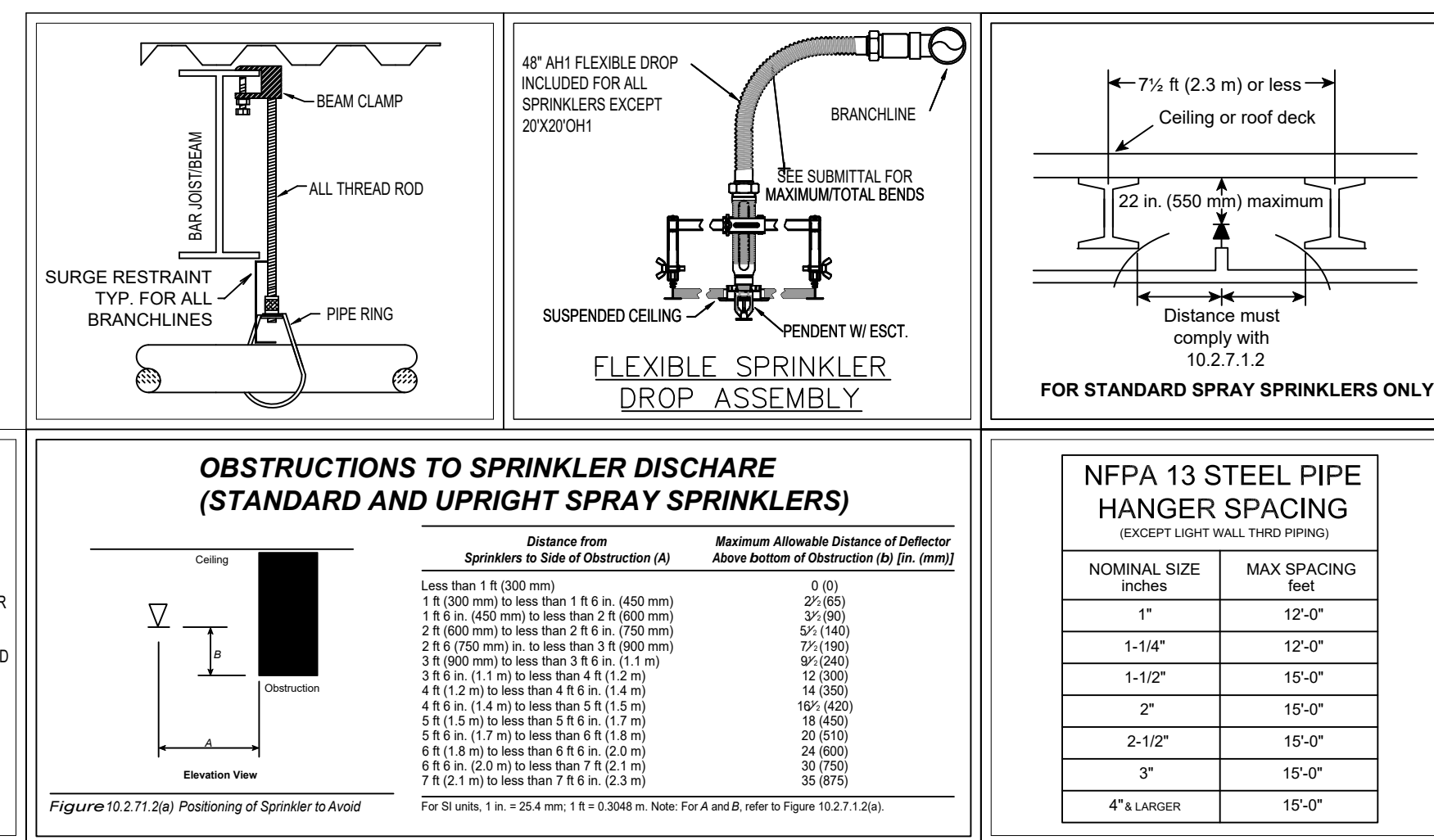
4.5.1	11.1 GAL
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- SYMBOLS USED ON DRAWINGS:

10'-0"	PIPE ELEVATION A.F.F.
12'-0"	PIPE ELEVATION BELOW B.O.D.
	ROOM HAZARD CLASSIFICATION (ALL ROOMS ARE CONSIDERED LIGHT HAZARD UNLESS NOTED)
	HYDRAULIC CALCULATION JUNCTION POINT
10'-0"	CEILING HEIGHT
- SCOPE OF WORK:
 - TO INSTALL A NEW COMBINED SPRINKLER SYSTEM WITH A NEW 1500 GPM PUMP, CLASS I AUTOMATIC STANDPIPES TO BE INSTALLED IN EXIT STAIRWELLS WITH HOSE VALVES LOCATED ON MAIN LANDINGS: GROUND FLOOR, 2ND FLOOR, 3RD FLOOR, 4TH FLOOR AND THE MECHANICAL PENTHOUSE TO BE ZONED OFF OF THE STANDPIPE IN THE WEST STAIRWELL. THE 1ST FLOOR ZONES TO BE ZONED FROM THE FIRE PUMP ROOM, 1ST FLOOR BALCONY TO BE PROTECTED BY A DRY SYSTEM. DRY VALVE TO BE LOCATED IN STORAGE ROOM 1015 FED FROM THE STANDPIPE SYSTEM.
 - ALL AREAS OF THE BUILDING TO BE INSTALLED AND COVERED IN ACCORDANCE WITH THE LOCAL AUTHORITY HAVING JURISDICTION AND PER NFPA 13 (2016)

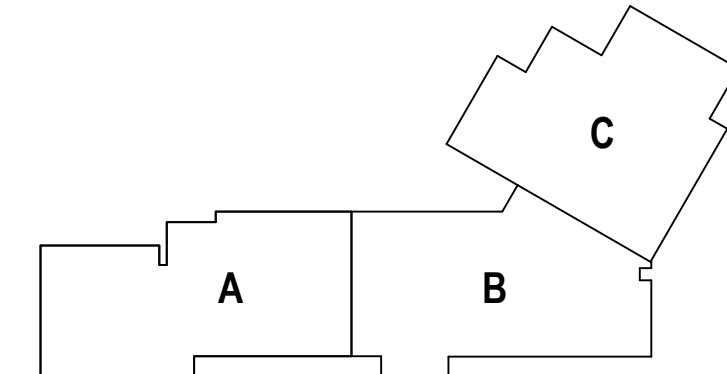


A SECTION
SCALE: 1/16" = 1'-0"



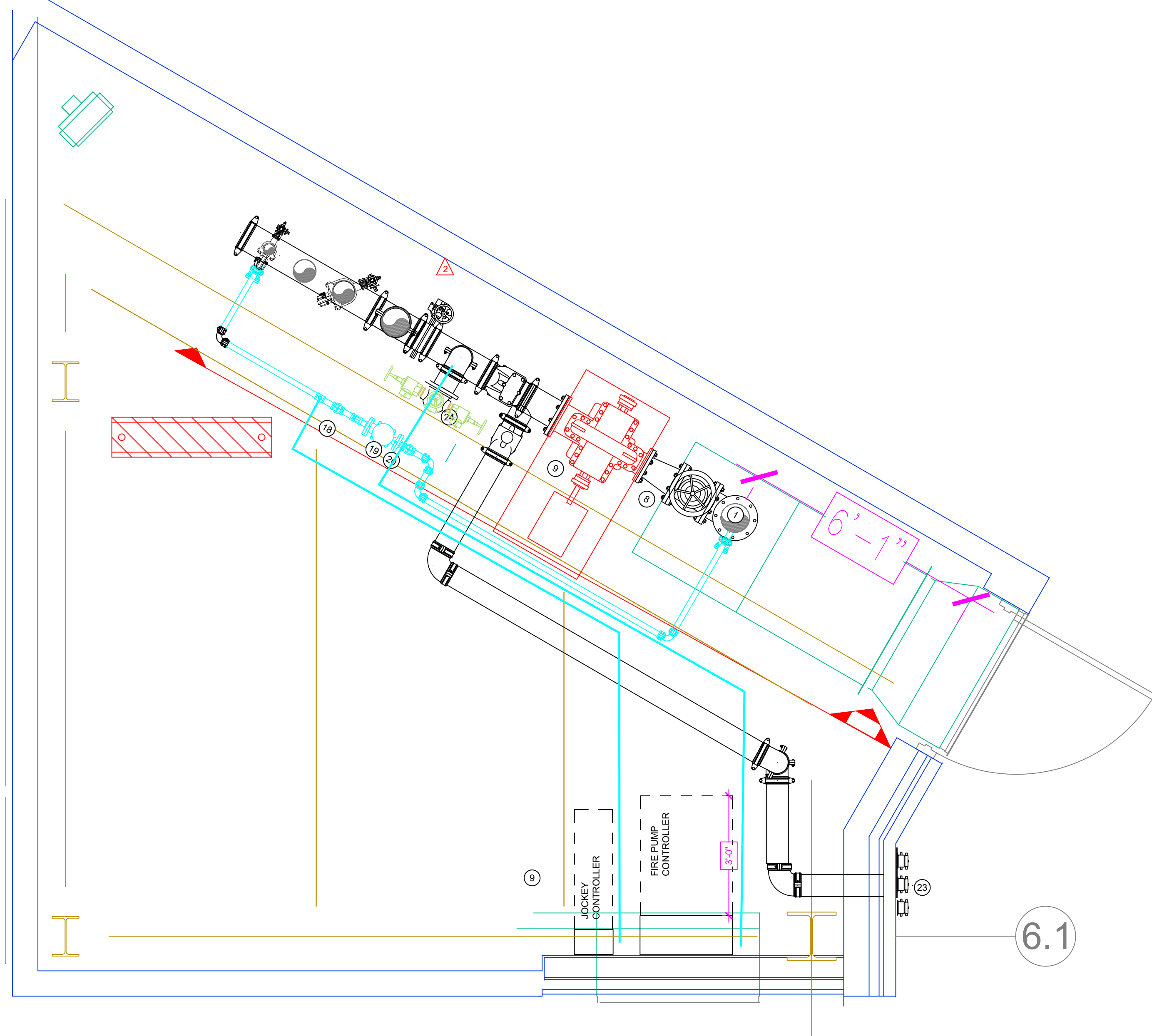
3 INSTALLATION DETAILS

SHEET INDEX	
FP-1	GENERAL NOTES AND DETAILS
FP-2	GROUND FLOOR AND STANDPIPE SECTION
FP-3	1ST FLOOR AREA C
FP-4	1ST FLOOR AREA A
FP-5	2ND FLOOR AREA C
FP-6	2ND FLOOR AREA A
FP-7	3RD FLOOR
FP-8	4TH FLOOR
FP-9	PENTHOUSE

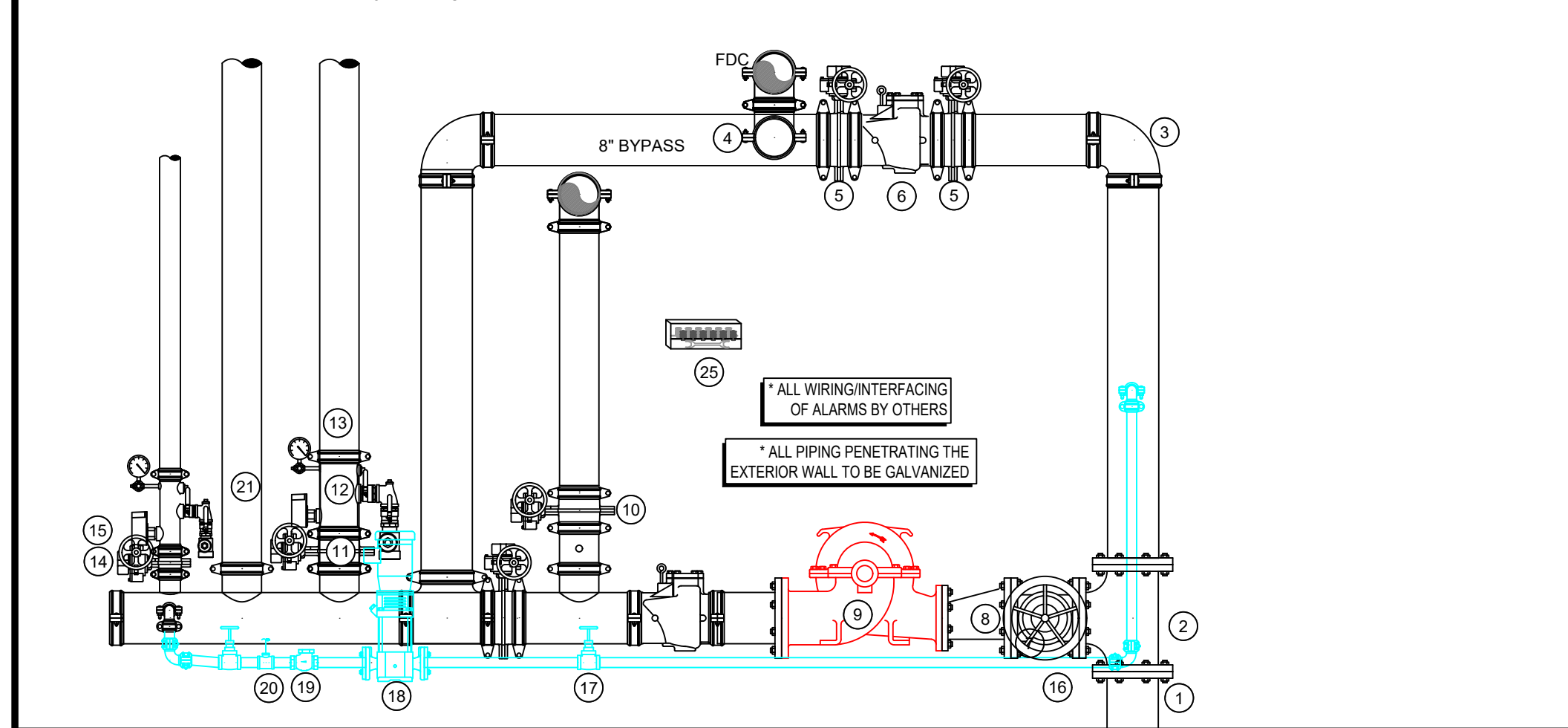


KEY PLAN

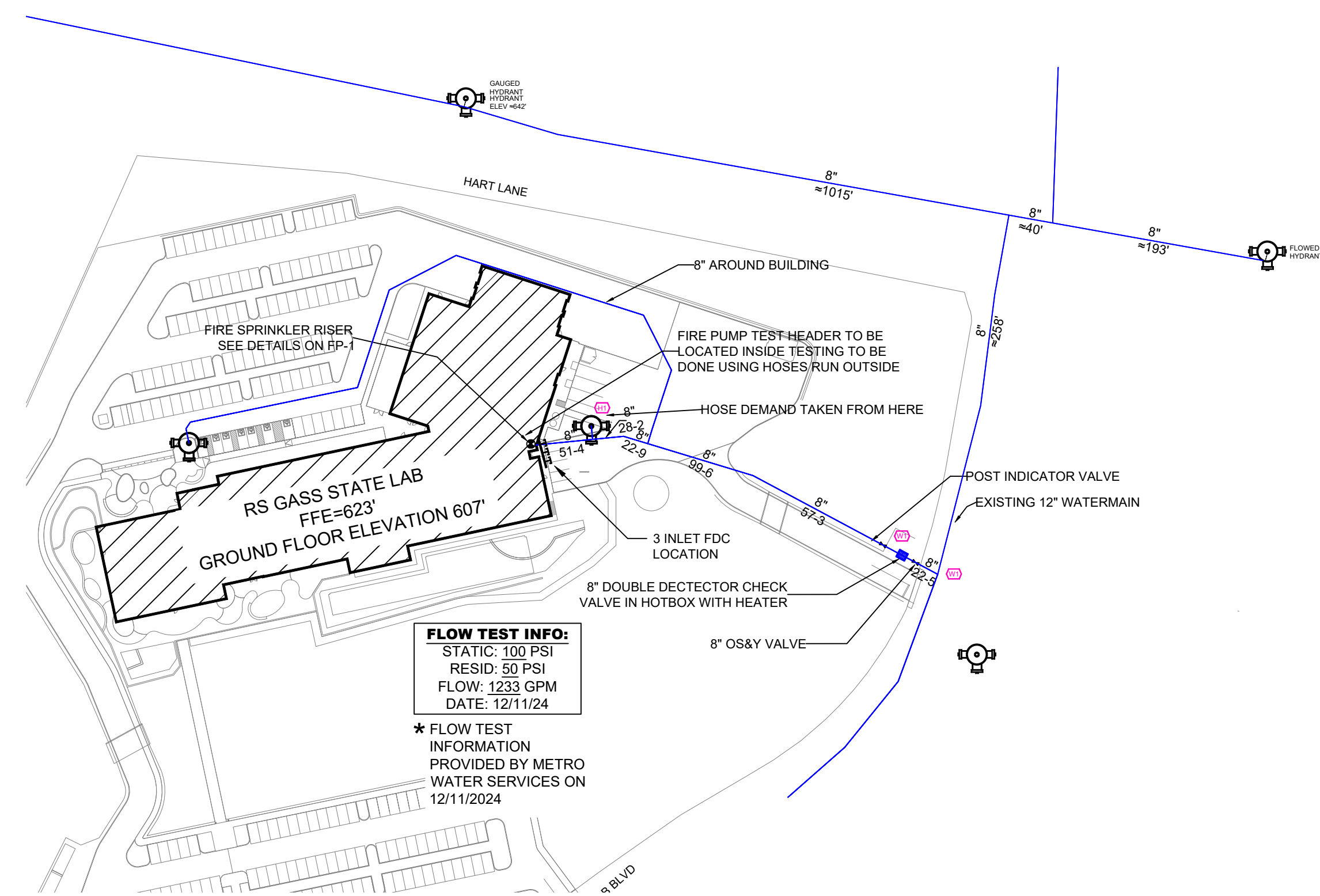
KEY PLAN
SCALE: NTS



- RISER LEGEND**
- 8" UNDERGROUND WATER SERVICE (BY OTHERS)
 - (FLUSHING & TESTING OF THE UNDERGROUND SHALL BE COMPLETED PRIOR TO THE SPRINKLER SYSTEM HOOKUP. UNDERGROUND PAPERS ARE TO BE SUPPLIED TO THE "FP" CONTRACTOR BY THE G.C.)
 - 8" FLANGED TEE
 - 8" GROOVED 90
 - 6" GROOVED OUTLET TO FDC
 - 8" GROOVED BUTTERFLY VALVE w/ TAMPER (NORMALLY OPEN)
 - 8" GROOVED CHECK VALVE
 - 8" FLANGED OS&Y VALVE w/ TAMPER (NORMALLY OPEN)
 - 8" 90° FLANGED ECCENTRIC REDUCER
 - 1500GPM @ 85 PSI ELECTRIC HORIZONTAL SPLIT CASE PUMP
 - 8" GROOVED BUTTERFLY VALVE w/ TAMPER (NORMALLY CLOSED)
 - 8" GROOVED BUTTERFLY VALVE w/ TAMPER
 - 6" GROOVED COMMERCIAL RISER MANIFOLD w/ FLOW SWITCH, PRESSURE GAUGE, & TEST AND DRAIN w/ PRV
 - 6" GROOVED TO ZONE 1
 - 3" GROOVED BUTTERFLY VALVE w/ TAMPER
 - 3" GROOVED COMMERCIAL MANIFOLD w/ FLOW SWITCH, PRESSURE GAUGE, TEST AND DRAIN w/ PRV
 - 1-1/4" GROOVED OUTLET TO JOCKEY PUMP SUPPLY
 - 1-1/4" GLOBE VALVE
 - JOCKEY PUMP
 - 1-1/4" SWING CHECK VALVE
 - 1-1/4"x1-1/4"x12" THREADED TEE TO SENSING LINE
 - 1-1/4" GROOVED OUTLET TO SYSTEM
 - 6" GROOVED CHECK VALVE
 - 6" X2-1/2"x2-1/2"x12" TO FIRE DEPARTMENT CONNECTION
 - 8" TO FIRE PUMP TEST HEADER
 - HEAD CABINET



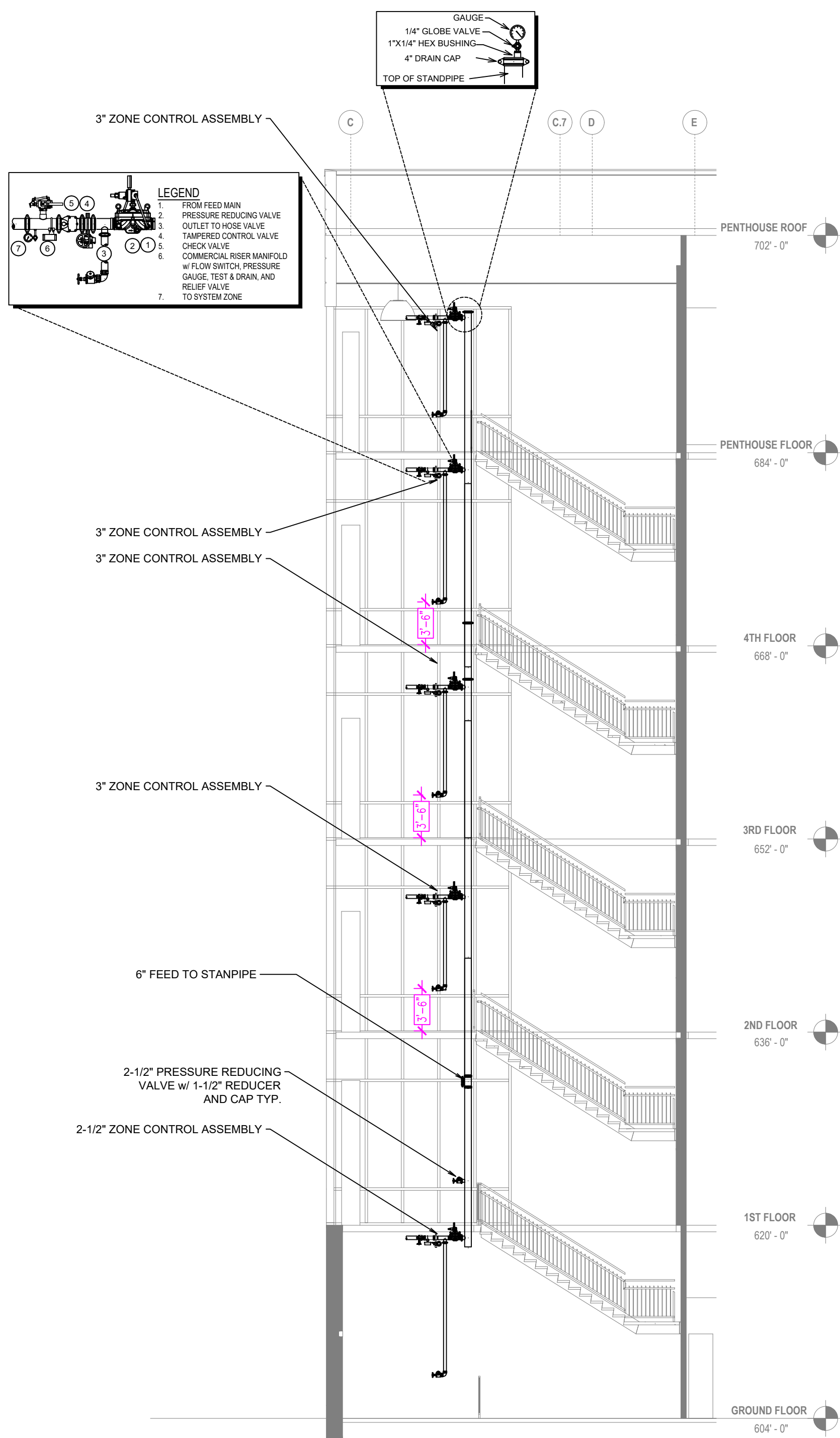
2 PUMP ROOM SECTION
SCALE: 1/2" = 1'-0"



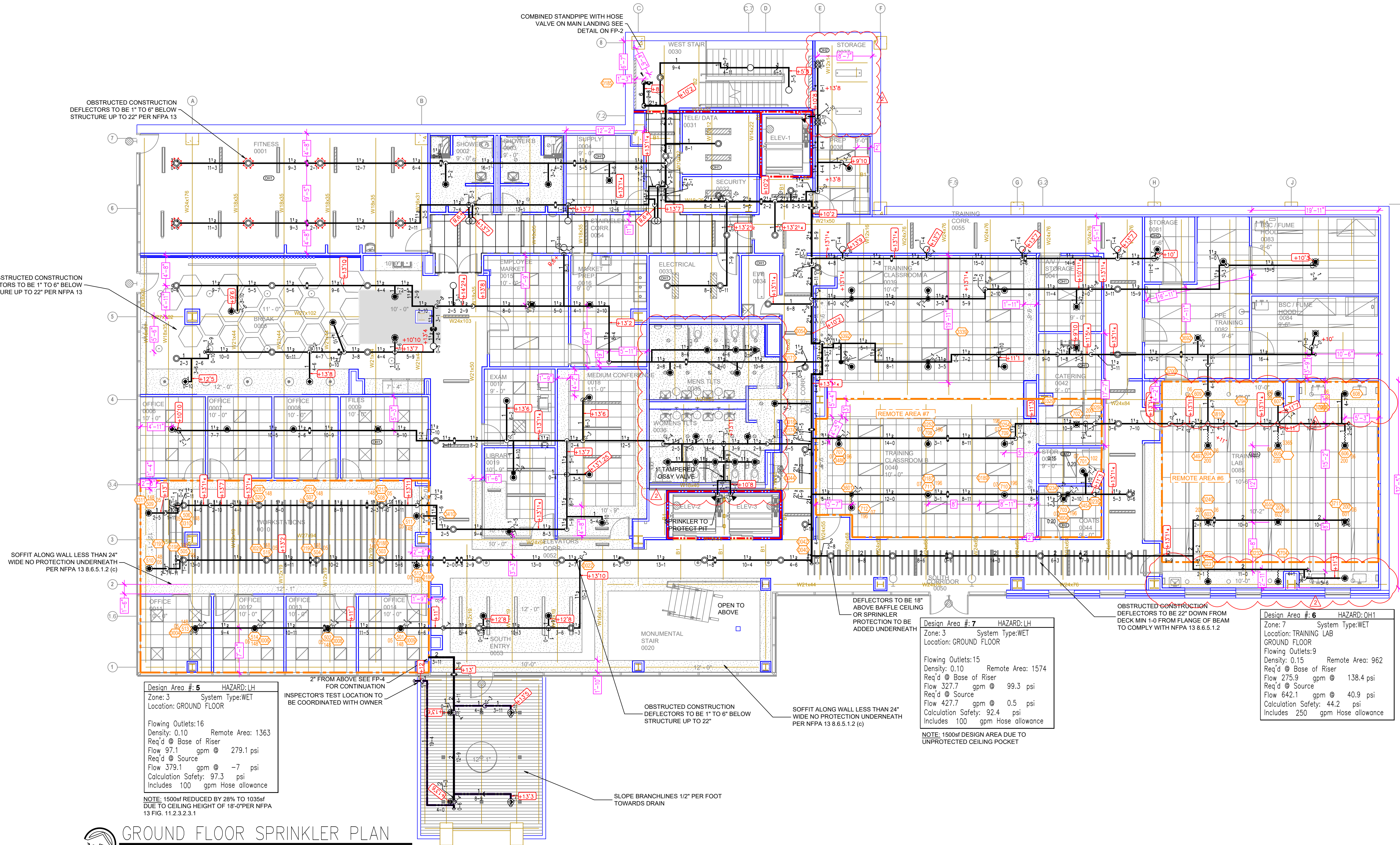
FLOW TEST INFO:
STATIC: 100 PSI
RESID: 50 PSI
FLOW: 1233 GPM
DATE: 12/11/24
* FLOW TEST INFORMATION PROVIDED BY METRO WATER SERVICES ON 12/11/2024

SITE PLAN
SCALE: 1" = 100'-0"

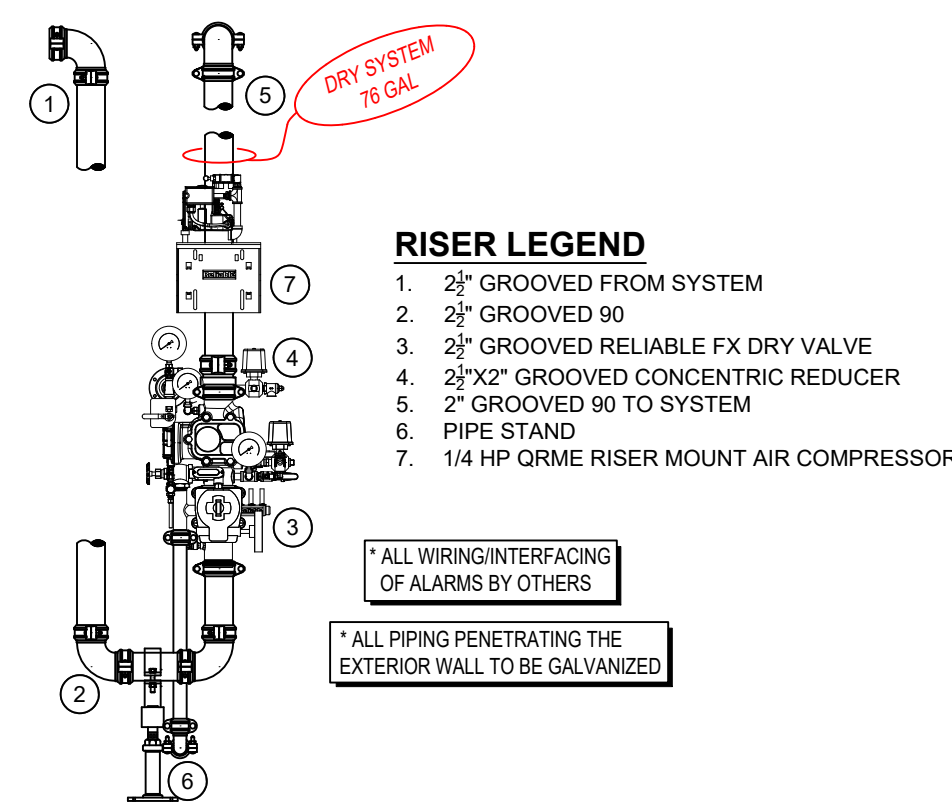
FIRE PUMP FLOOR PLAN
SCALE: 1/8" = 1'-0"



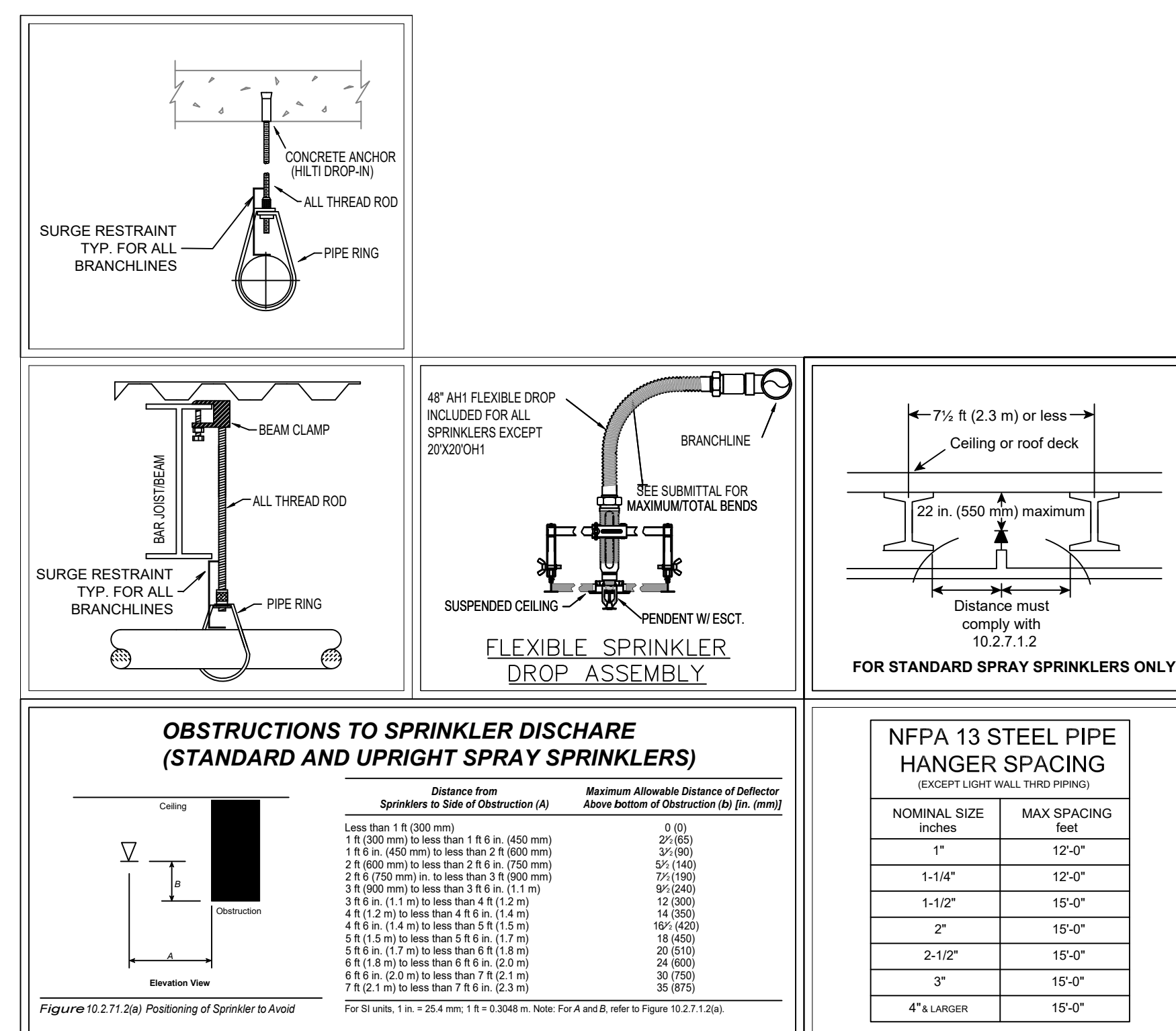
A STANDPIPE SECTION
SCALE: 1/8" = 1'-0"



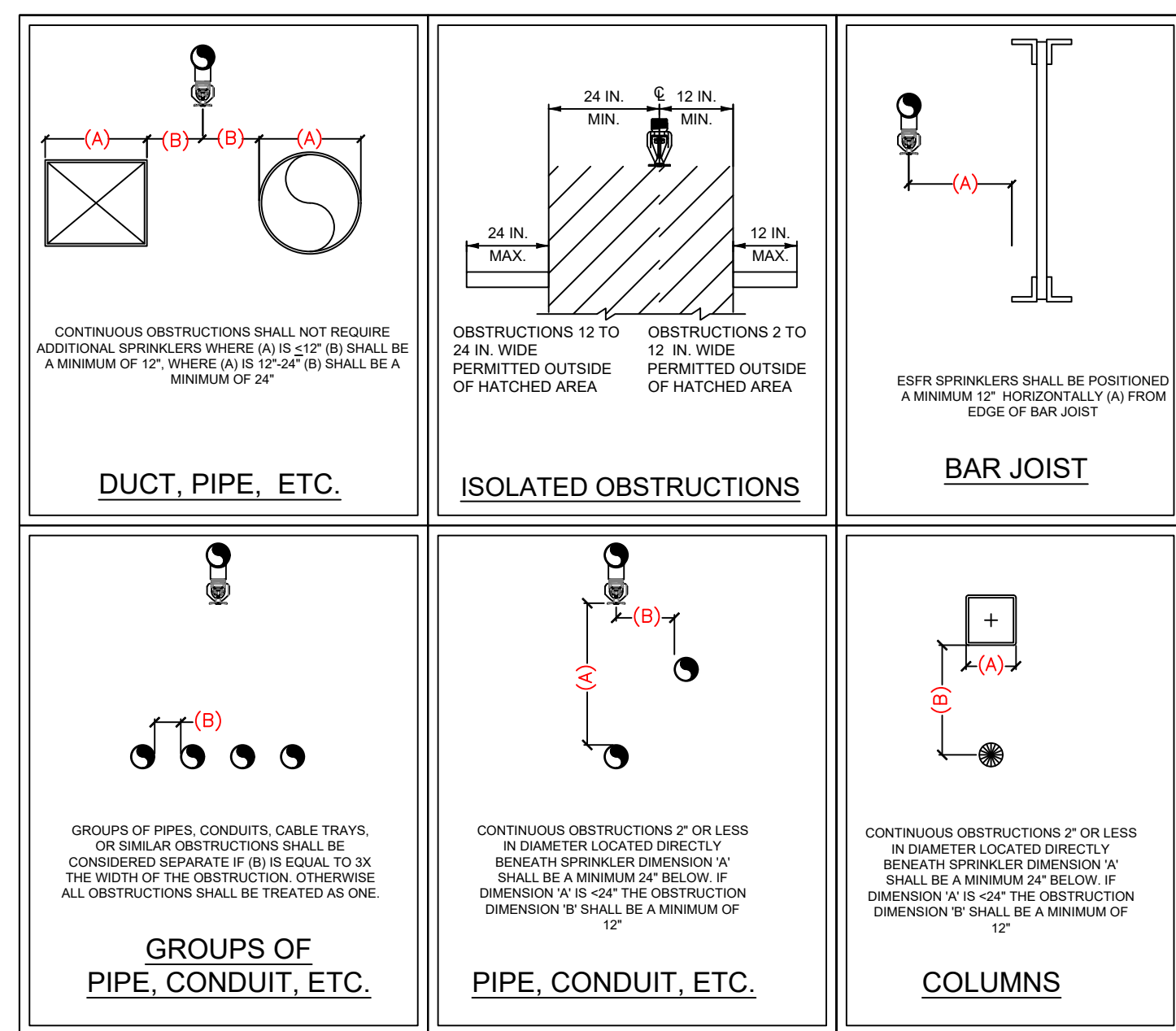
B GROUND FLOOR SPRINKLER PLAN
SCALE: 1/8" = 1'-0"



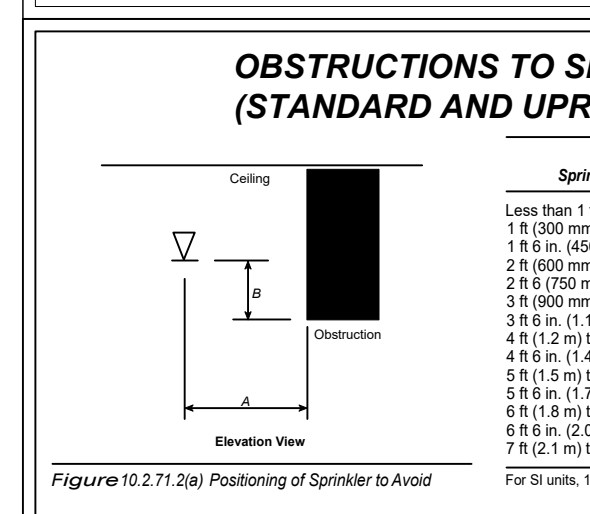
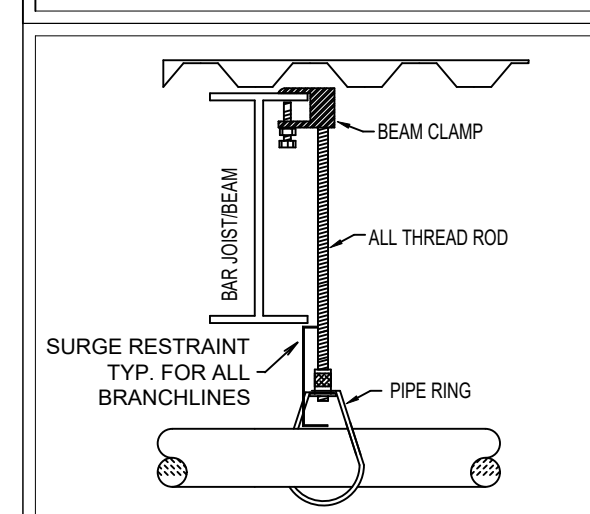
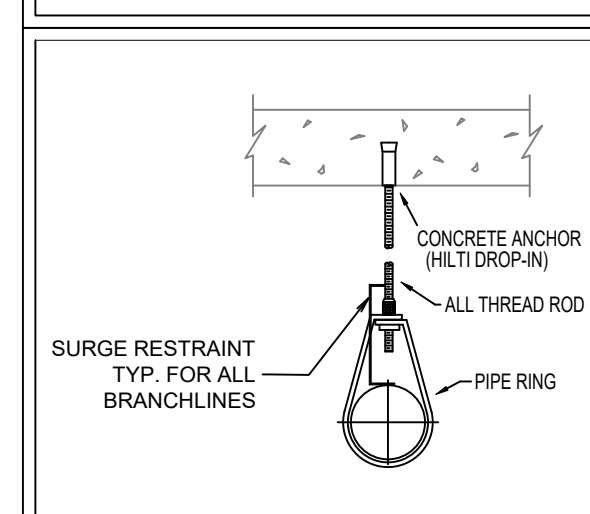
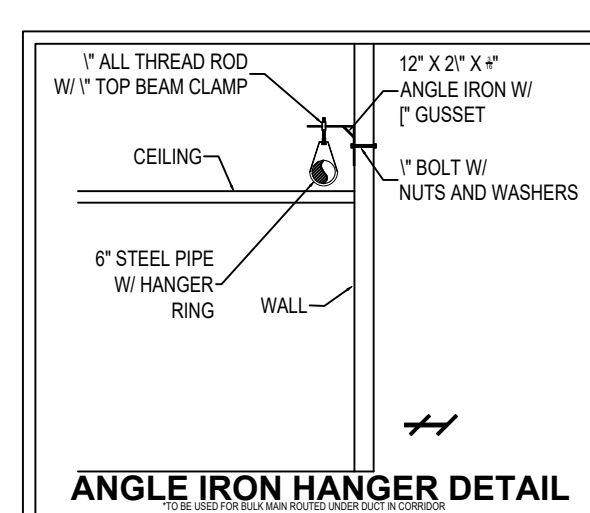
2 DRY RISER DETAIL
SCALE: 1/2" = 1'-0"

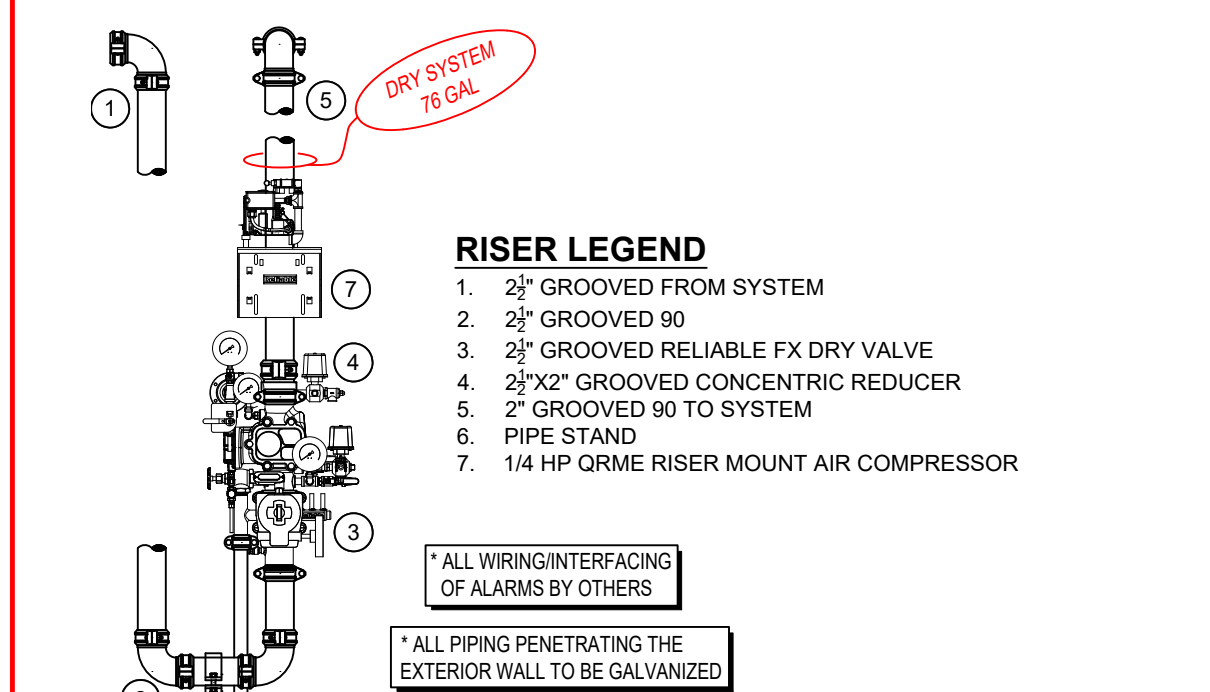


1 INSTALLATION DETAILS

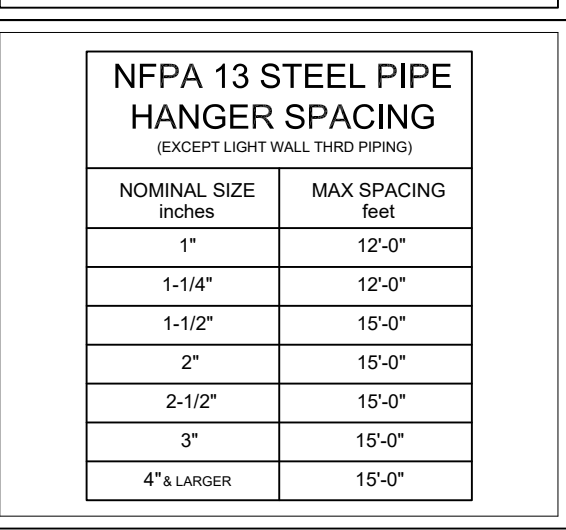
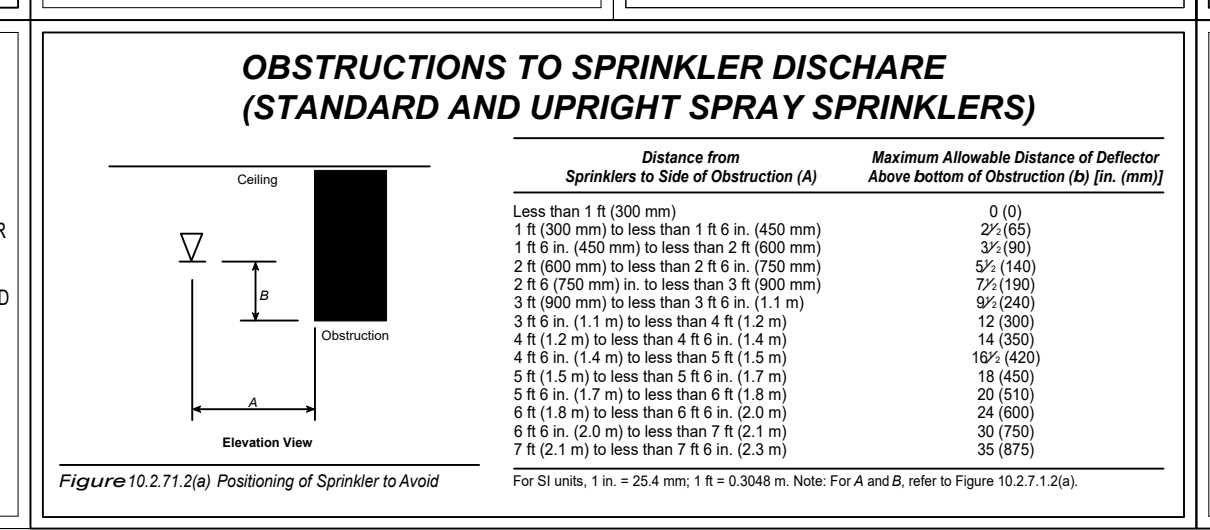
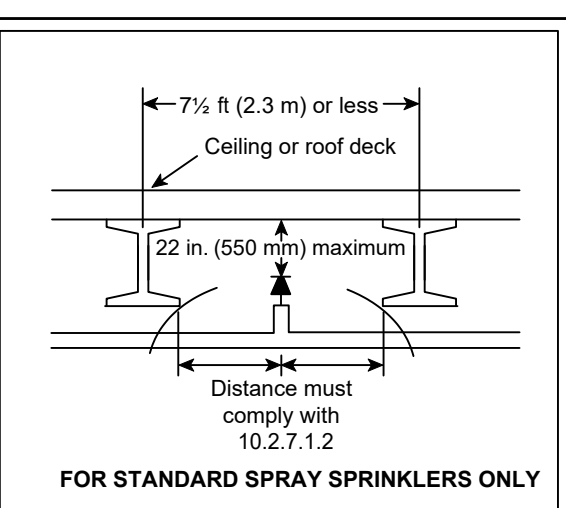
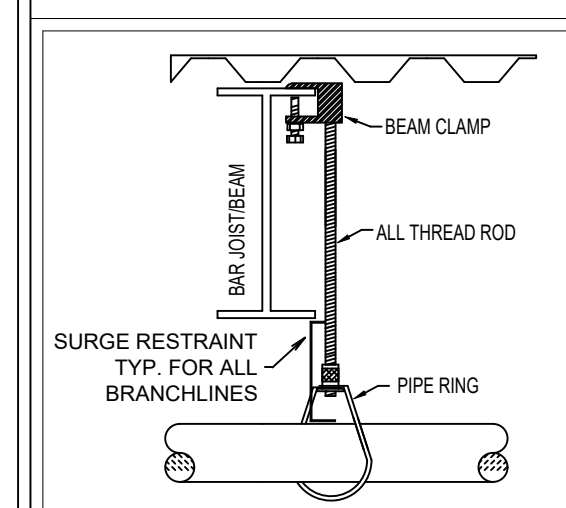


2 ESFR DETAILS



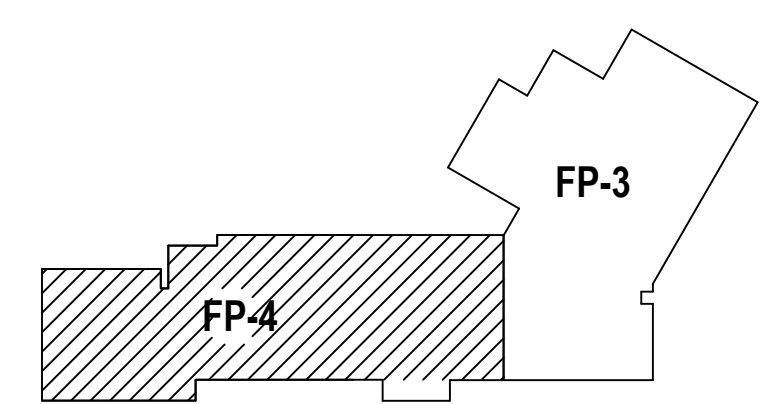


1 DRY RISER DETAIL
1/2"=1'-0"

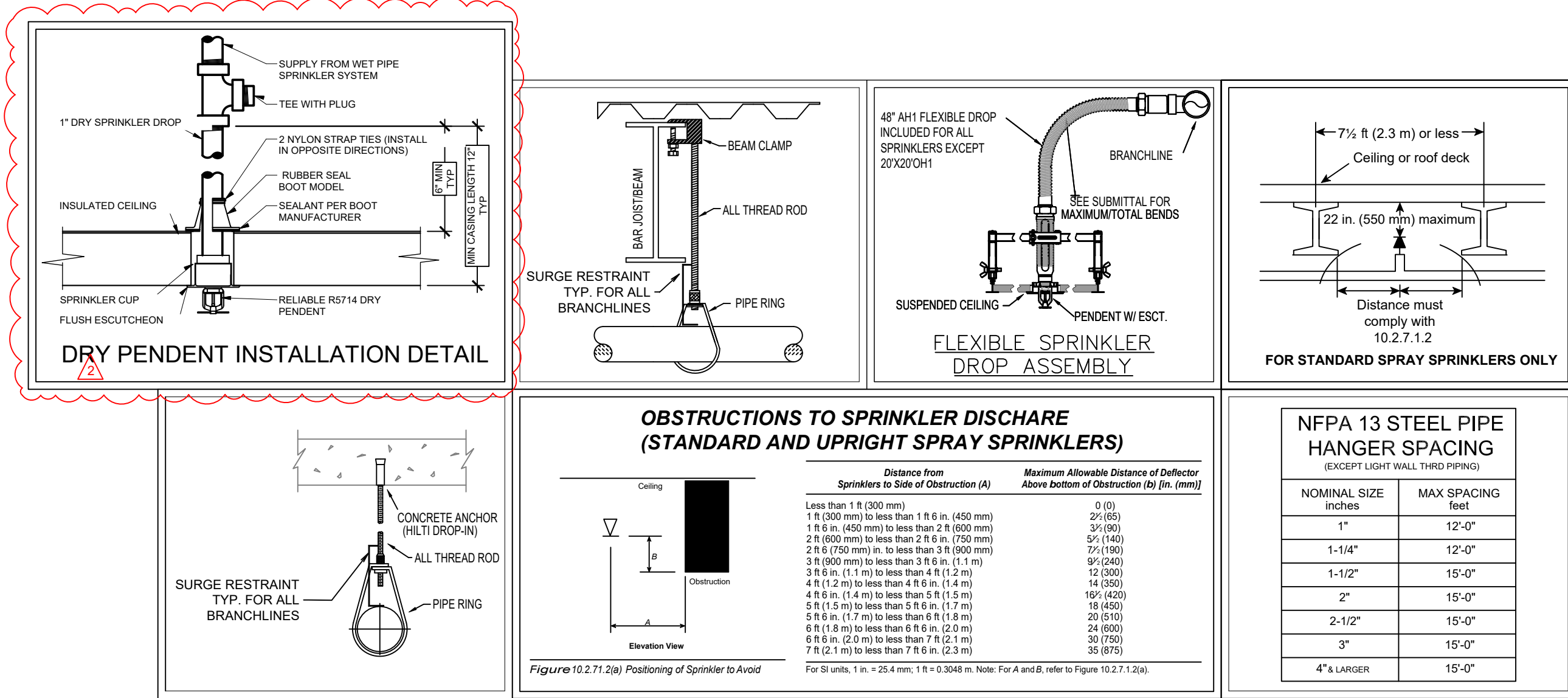


LINE LEGEND

	WET SYSTEM PIPING
	DRY SYSTEM PIPING
	STANDPIPE PIPING
	1 HOUR RATED BARRIER
	2 HOUR RATED BARRIER



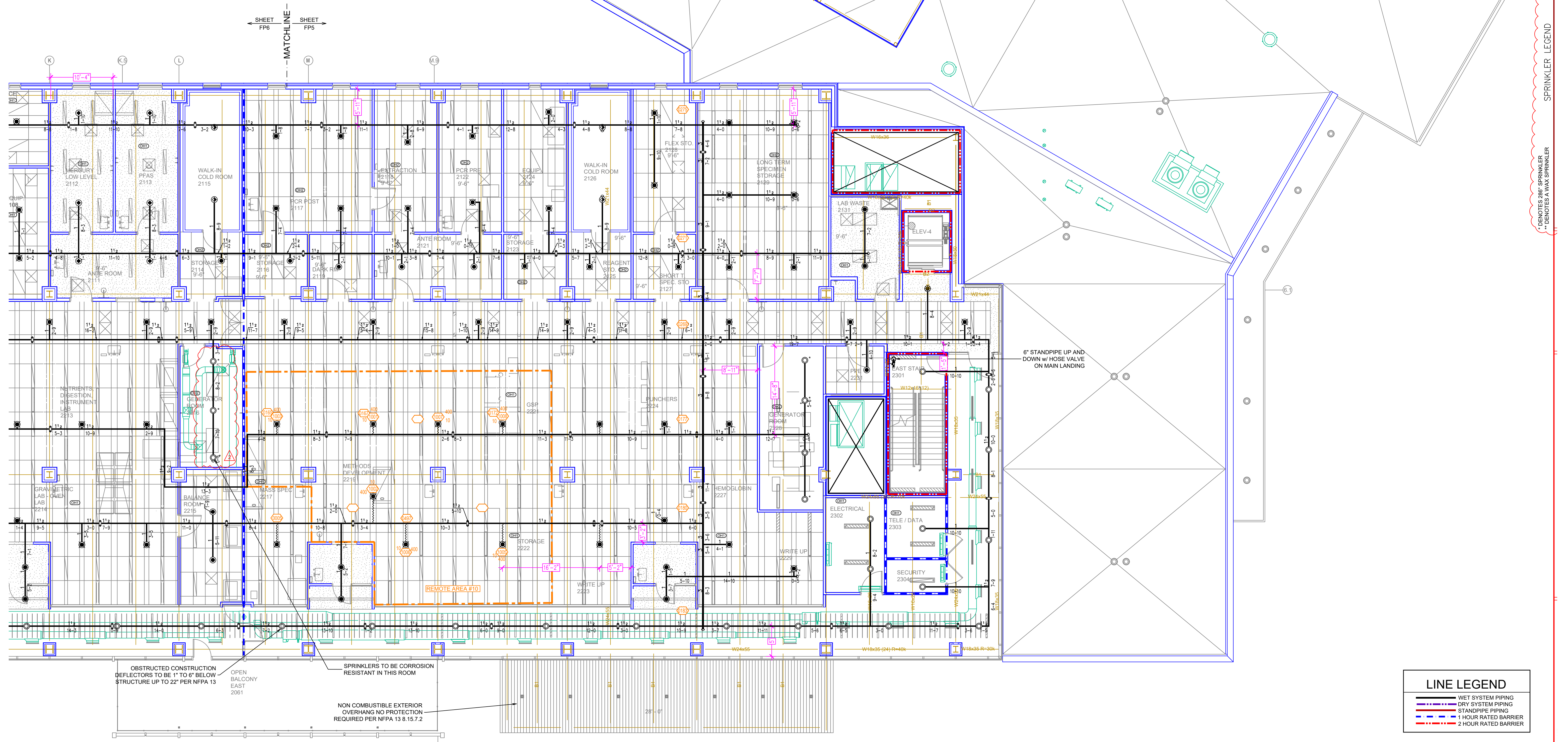
KEY PLAN
SCALE: NTS

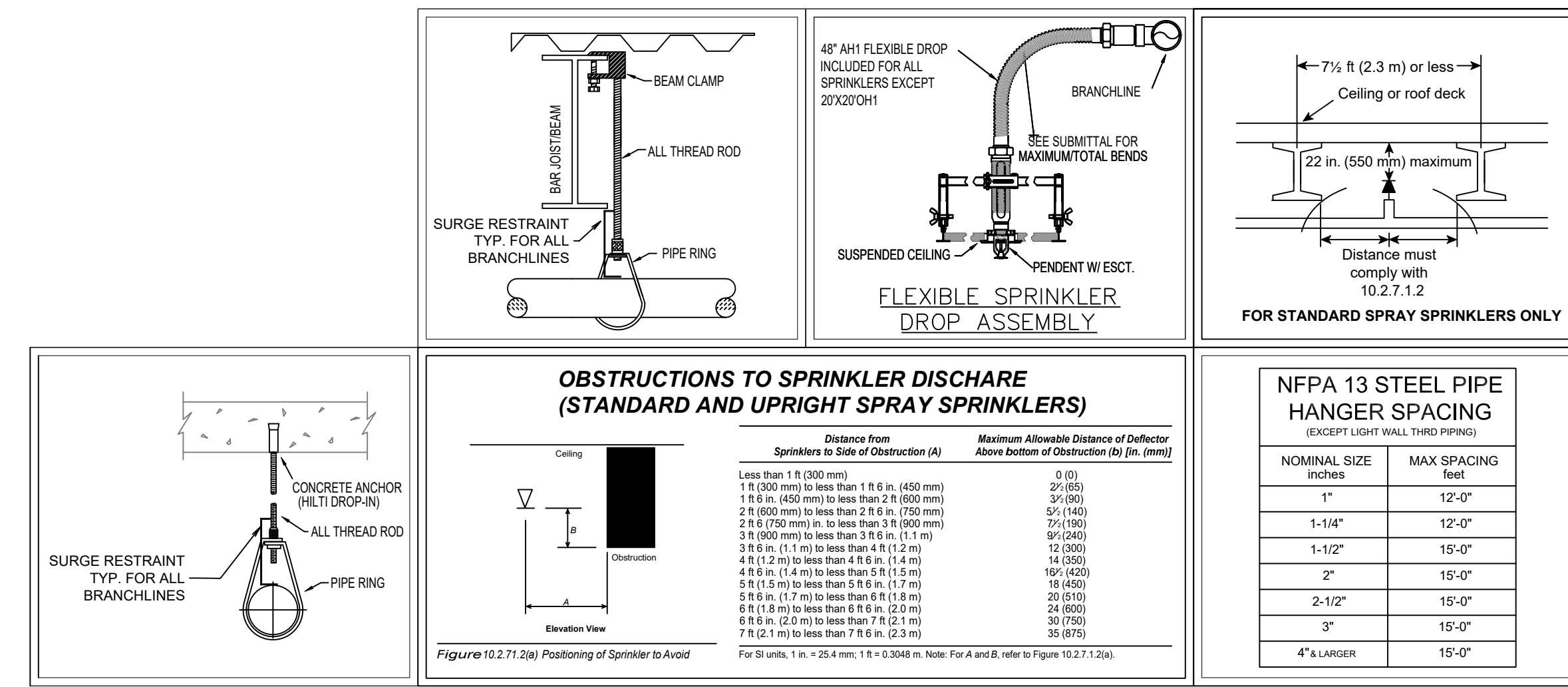


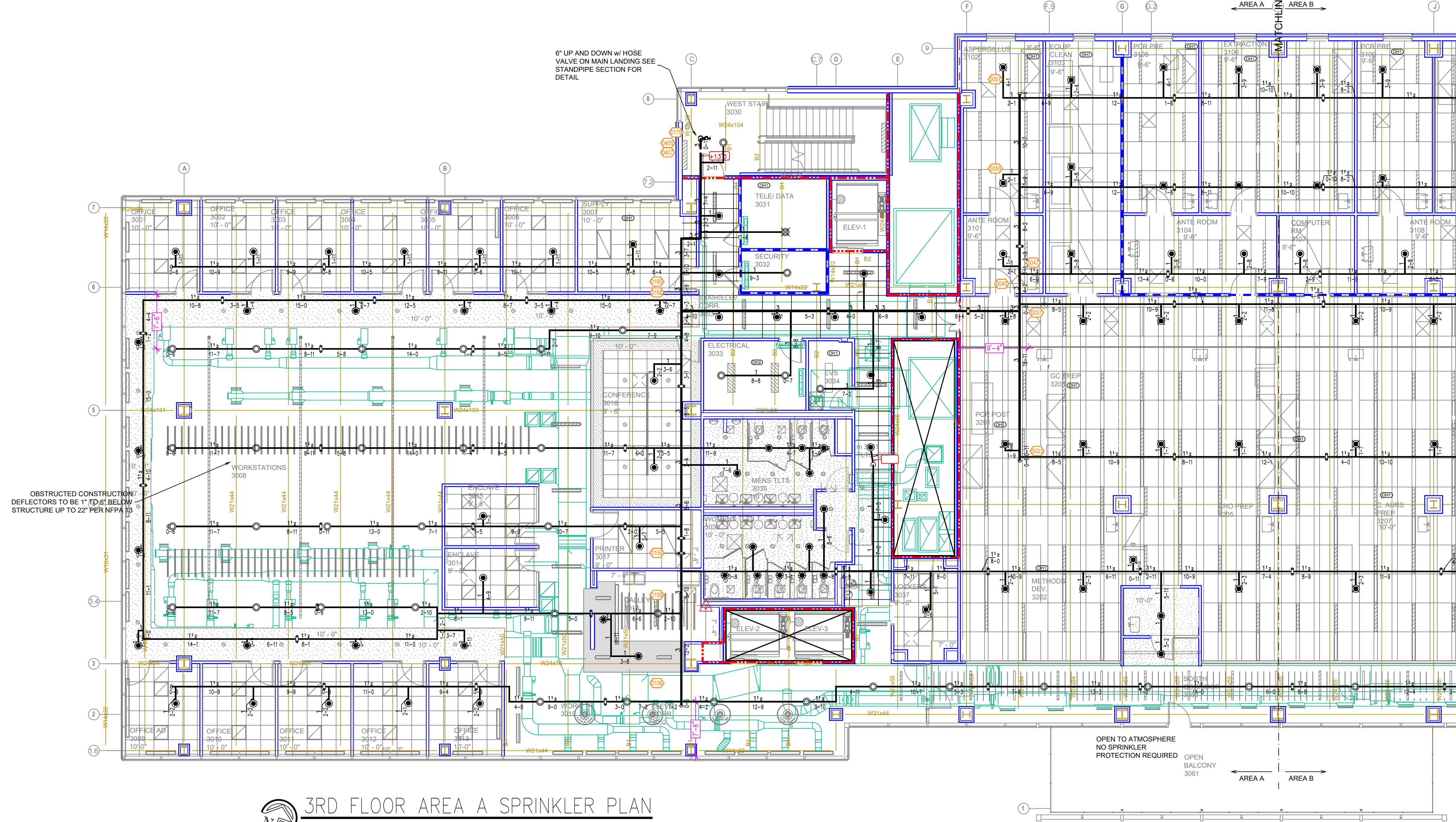
1 INSTALLATION DETAILS

Design Area #10 HAZARD: OHI
Zone: 4 System Type: WET
Location: SECOND FLOOR
OPEN LAB
Flowing Outlets: 7
Density: 0.15 Remote Area: 1692
Req'd @ Base of Riser
Flow 434.1 gpm @ 170.2 psi
Req'd @ Source
Flow 684.1 gpm @ 73.6 psi
Calculation Safety: 9.6 psi
Includes 250 gpm hose allowance

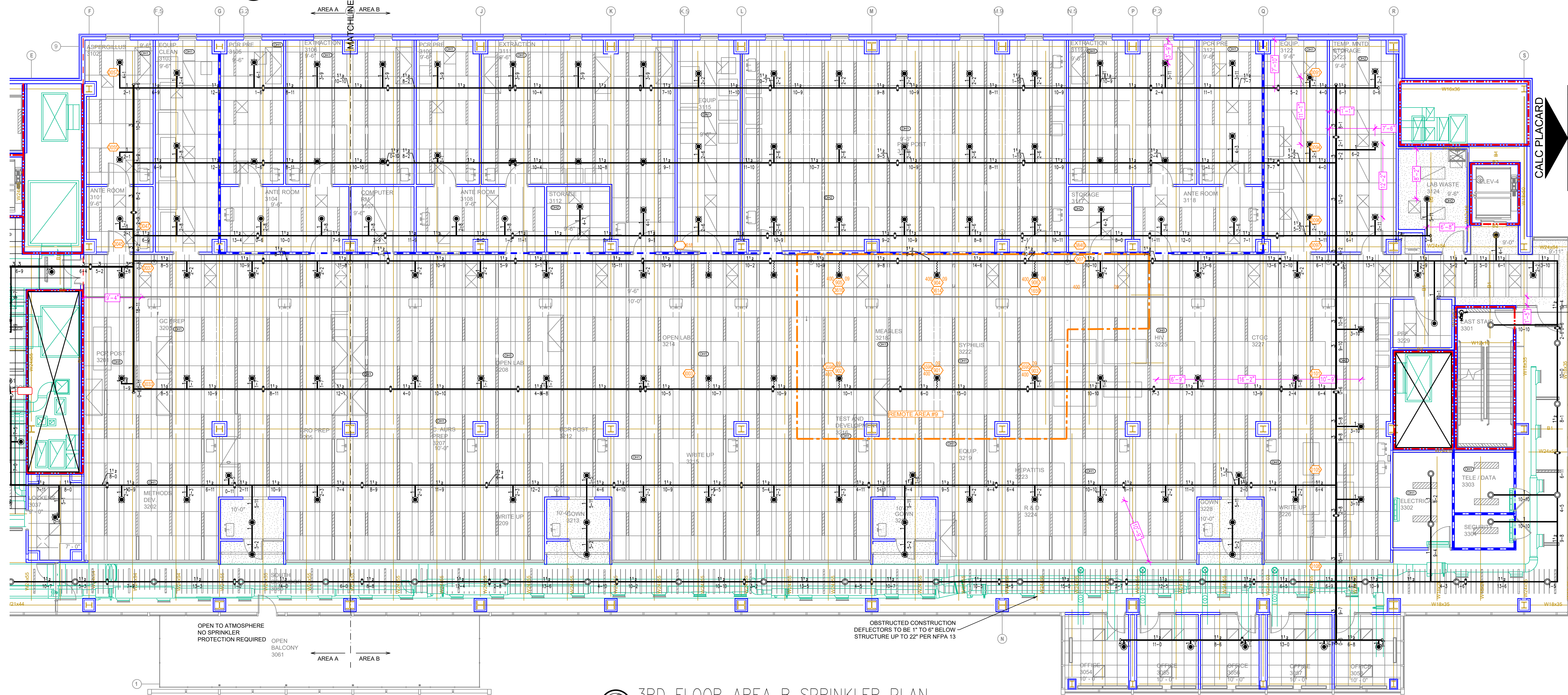
NOTE: NO QUICK RESPONSE REDUCTION DUE TO SPRINKLERS SPACED AT 20' BEING STANDARD RESPONSE
NOTE: 4 FOOT FLEXIBLE SPRINKLER HOSE INCLUDED IN CALCULATION.







3RD FLOOR AREA A SPRINKLER PLAN
SCALE: 1/8" = 1'-0"



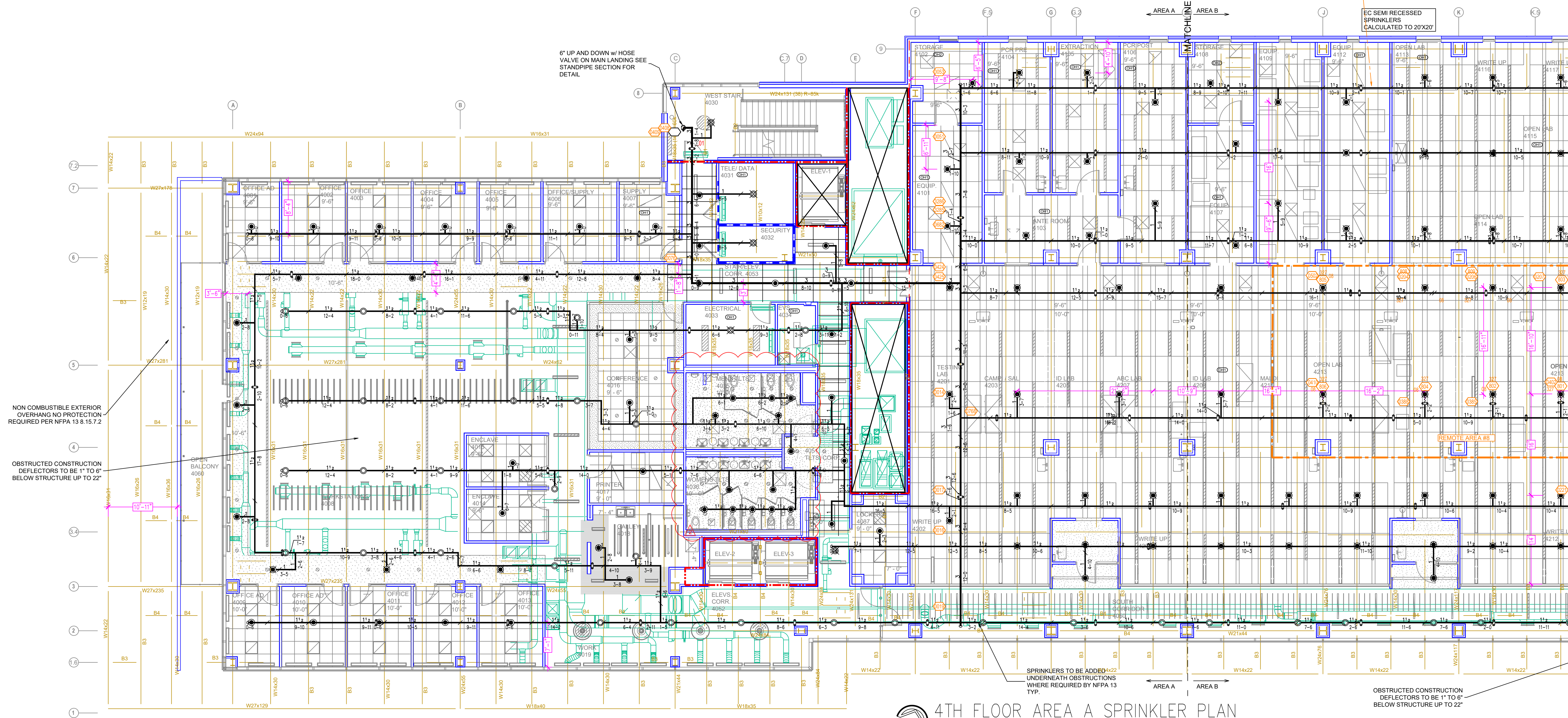
3RD FLOOR AREA B SPRINKLER PLAN
SCALE: 1/8" = 1'-0"

Design Area # 9 HAZARD OH1
Zone: 5 System Type: WET
Location: 3RD FLOOR
OPEN LAB
Flowing Outlets: 7 Remote Area: 1574
Density: 0.15
Req'd @ Base of Riser
Flow 459.4 gpm @ 147.7 psi
Req'd @ Source
Flow 700.4 gpm @ 51.7 psi
Calculation Safety: 30.3 psi
Includes 250 gpm Hose allowance
NOTE: 1500psi CALCULATION PER NFPA 13
10.3.3.2 w/ 4 FOOT FLEXIBLE SPRINKLER
HOSE INCLUDED

LINE LEGEND	
—	WET SYSTEM PIPING
—	DRY SYSTEM PIPING
---	STANDPIPE PIPING
---	1 HOUR RATED BARRIER
---	2 HOUR RATED BARRIER

SPRINKLER LEGEND

* DENOTES 3/8" SPRINKLER
* DENOTES A WAX SPRINKLER



4TH FLOOR AREA A SPRINKLER PLAN
SCALE: 1/8" = 1'-0"



LINE LEGEND	
—	WET SYSTEM PIPING
—	DRY SYSTEM PIPING
—	STANDPIPE PIPING
---	1 HOUR RATED BARRIER
---	2 HOUR RATED BARRIER

Design Area # 8 HAZARD: CH1
Zone: 6 System Type: WET
Location: 4TH FLOOR
OPEN LAB
Flowing Outlets: 8 Remote Area: 1538
Req'd @ Base of Riser
Flow 422 gpm @ 99.2 psi
Req'd @ Source
Flow 713.4 gpm @ 47.3 psi
Calculation Safety: 34.5 psi
Includes 250 gpm Hose allowance

Design Area # 3 HAZARD: CH1
Zone: 6 System Type: WET
Location: 4TH FLOOR
LAB
Flowing Outlets: 11 Remote Area: 1514
Req'd @ Base of Riser
Flow 497.2 gpm @ 159.1 psi
Req'd @ Source
Flow 747.2 gpm @ 60.7 psi
Calculation Safety: 19.5 psi
Includes 250 gpm Hose allowance

NOTE: 1500sf REDUCED BY 28% TO 1035sf
DUE TO CEILING HEIGHT OF 18'-0" PER NFPA
13 FIG. 11.2.3.2.1

4TH FLOOR AREA B SPRINKLER PLAN
SCALE: 1/8" = 1'-0"

SPRINKLER LEGEND

• DENOTES WET SPRINKLER
• DENOTES DRY SPRINKLER

NFPA 13 STEEL PIPE HANGER SPACING
(EXCEPT LIGHT WALL THRU 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 No. 135
Top Beam C-Clamp
with Retaining Strap (Joint)

Hanger No. 145
Inverted Top Beam C-Clamp
with Retaining Strap (Beam)

**OBSTRUCTIONS TO SPRINKLER DISCHARGE
(STANDARD AND UPRIGHT SPRAY SPRINKLERS)**

Distance from Sprinkler to Obstruction (H)

Distance from Sprinkler to Obstruction (H)	Maximum Allowable Distance of Deflector Above Bottom of Obstruction (B) (in. mm)
Less than 18 (457 mm)	0 (0)
18 to 24 (457 to 609 mm)	2 (51)
24 to 30 (609 to 762 mm)	4 (102)
30 to 36 (762 to 914 mm)	6 (152)
36 to 42 (914 to 1067 mm)	8 (203)
42 to 48 (1067 to 1219 mm)	10 (254)
48 to 54 (1219 to 1372 mm)	12 (305)
54 to 60 (1372 to 1524 mm)	14 (356)
60 to 66 (1524 to 1676 mm)	16 (406)
66 to 72 (1676 to 1829 mm)	18 (457)
72 to 78 (1829 to 1981 mm)	20 (508)
78 to 84 (1981 to 2134 mm)	22 (559)
84 to 90 (2134 to 2286 mm)	24 (610)
90 to 96 (2286 to 2438 mm)	26 (660)
96 to 102 (2438 to 2591 mm)	28 (711)
102 to 108 (2591 to 2743 mm)	30 (762)
108 to 114 (2743 to 2895 mm)	32 (813)
114 to 120 (2895 to 3048 mm)	34 (864)
120 to 126 (3048 to 3200 mm)	36 (914)
126 to 132 (3200 to 3353 mm)	38 (965)
132 to 138 (3353 to 3505 mm)	40 (1016)
138 to 144 (3505 to 3658 mm)	42 (1067)
144 to 150 (3658 to 3810 mm)	44 (1118)
150 to 156 (3810 to 3963 mm)	46 (1168)
156 to 162 (3963 to 4115 mm)	48 (1219)
162 to 168 (4115 to 4268 mm)	50 (1270)
168 to 174 (4268 to 4420 mm)	52 (1321)
174 to 180 (4420 to 4573 mm)	54 (1372)
180 to 186 (4573 to 4725 mm)	56 (1423)
186 to 192 (4725 to 4878 mm)	58 (1473)
192 to 198 (4878 to 5030 mm)	60 (1524)
198 to 204 (5030 to 5183 mm)	62 (1575)
204 to 210 (5183 to 5335 mm)	64 (1626)
210 to 216 (5335 to 5488 mm)	66 (1676)
216 to 222 (5488 to 5640 mm)	68 (1727)
222 to 228 (5640 to 5793 mm)	70 (1778)
228 to 234 (5793 to 5945 mm)	72 (1829)
234 to 240 (5945 to 6098 mm)	74 (1880)
240 to 246 (6098 to 6250 mm)	76 (1930)
246 to 252 (6250 to 6403 mm)	78 (1981)
252 to 258 (6403 to 6555 mm)	80 (2032)
258 to 264 (6555 to 6708 mm)	82 (2083)
264 to 270 (6708 to 6860 mm)	84 (2134)
270 to 276 (6860 to 7013 mm)	86 (2185)
276 to 282 (7013 to 7165 mm)	88 (2236)
282 to 288 (7165 to 7318 mm)	90 (2286)
288 to 294 (7318 to 7470 mm)	92 (2337)
294 to 300 (7470 to 7623 mm)	94 (2388)
300 to 306 (7623 to 7775 mm)	96 (2438)
306 to 312 (7775 to 7928 mm)	98 (2489)
312 to 318 (7928 to 8080 mm)	100 (2540)
318 to 324 (8080 to 8233 mm)	102 (2591)
324 to 330 (8233 to 8385 mm)	104 (2642)
330 to 336 (8385 to 8538 mm)	106 (2693)
336 to 342 (8538 to 8690 mm)	108 (2743)
342 to 348 (8690 to 8843 mm)	110 (2794)
348 to 354 (8843 to 8995 mm)	112 (2845)
354 to 360 (8995 to 9148 mm)	114 (2896)
360 to 366 (9148 to 9300 mm)	116 (2947)
366 to 372 (9300 to 9453 mm)	118 (2998)
372 to 378 (9453 to 9605 mm)	120 (3049)
378 to 384 (9605 to 9758 mm)	122 (3100)
384 to 390 (9758 to 9910 mm)	124 (3151)
390 to 396 (9910 to 10063 mm)	126 (3202)
396 to 402 (10063 to 10215 mm)	128 (3253)
402 to 408 (10215 to 10368 mm)	130 (3304)
408 to 414 (10368 to 10520 mm)	132 (3355)
414 to 420 (10520 to 10673 mm)	134 (3406)
420 to 426 (10673 to 10825 mm)	136 (3457)
426 to 432 (10825 to 10978 mm)	138 (3508)
432 to 438 (10978 to 11130 mm)	140 (3559)
438 to 444 (11130 to 11283 mm)	142 (3610)
444 to 450 (11283 to 11435 mm)	144 (3661)
450 to 456 (11435 to 11588 mm)	146 (3712)
456 to 462 (11588 to 11740 mm)	148 (3763)
462 to 468 (11740 to 11893 mm)	150 (3814)
468 to 474 (11893 to 12045 mm)	152 (3865)
474 to 480 (12045 to 12198 mm)	154 (3916)
480 to 486 (12198 to 12350 mm)	156 (3967)
486 to 492 (12350 to 12503 mm)	158 (4018)
492 to 498 (12503 to 12655 mm)	160 (4069)
498 to 504 (12655 to 12808 mm)	162 (4120)
504 to 510 (12808 to 12960 mm)	164 (4171)
510 to 516 (12960 to 13113 mm)	166 (4222)
516 to 522 (13113 to 13265 mm)	168 (4273)
522 to 528 (13265 to 13418 mm)	170 (4324)
528 to 534 (13418 to 13570 mm)	172 (4375)
534 to 540 (13570 to 13723 mm)	174 (4426)
540 to 546 (13723 to 13875 mm)	176 (4477)
546 to 552 (13875 to 14028 mm)	178 (4528)
552 to 558 (14028 to 14180 mm)	180 (4579)
558 to 564 (14180 to 14333 mm)	182 (4630)
564 to 570 (14333 to 14485 mm)	184 (4681)
570 to 576 (14485 to 14638 mm)	186 (4732)
576 to 582 (14638 to 14790 mm)	188 (4783)
582 to 588 (14790 to 14943 mm)	190 (4834)
588 to 594 (14943 to 15095 mm)	192 (4885)
594 to 600 (15095 to 15248 mm)	194 (4936)
600 to 606 (15248 to 15400 mm)	196 (4987)
606 to 612 (15400 to 15553 mm)	198 (5038)
612 to 618 (15553 to 15705 mm)	200 (5089)
618 to 624 (15705 to 15858 mm)	202 (5140)
624 to 630 (15858 to 16010 mm)	204 (5191)
630 to 636 (16010 to 16163 mm)	206 (5242)
636 to 642 (16163 to 16315 mm)	208 (5293)
642 to 648 (16315 to 16468 mm)	210 (5344)
648 to 654 (16468 to 16620 mm)	212 (5395)
654 to 660 (16620 to 16773 mm)	214 (5446)
660 to 666 (16773 to 16925 mm)	216 (5497)
666 to 672 (16925 to 17078 mm)	218 (5548)
672 to 678 (17078 to 17230 mm)	220 (5599)
678 to 684 (17230 to 17383 mm)	222 (5650)
684 to 690 (17383 to 17535 mm)	224 (5701)
690 to 696 (17535 to 17688 mm)	226 (5752)
696 to 702 (17688 to 17840 mm)	228 (5803)
702 to 708 (17840 to 17993 mm)	230 (5854)
708 to 714 (17993 to 18145 mm)	232 (5905)
714 to 720 (18145 to 18298 mm)	234 (5956)
720 to 726 (18298 to 18450 mm)	236 (6007)
726 to 732 (18450 to 18603 mm)	238 (6058)
732 to 738 (18603 to 18755 mm)	240 (6109)
738 to 744 (18755 to 18908 mm)	242 (6160)
744 to 750 (18908 to 19060 mm)	244 (6211)
750 to 756 (19060 to 19213 mm)	246 (6262)
756 to 762 (19213 to 19365 mm)	248 (6313)
762 to 768 (19365 to 19518 mm)	250 (6364)
768 to 774 (19518 to 19670 mm)	252 (6415)
774 to 780 (19670 to 19823 mm)	254 (6466)
780 to 786 (19823 to 19975 mm)	256 (6517)
786 to 792 (19975 to 20128 mm)	258 (6568)
792 to 798 (20128 to 20280 mm)	260 (6619)
798 to 804 (20280 to 20433 mm)	262 (6670)
804 to 810 (20433 to 20585 mm)	264 (6721)
810 to 816 (20585 to 20738 mm)	266 (6772)
816 to 822 (20738 to 20890 mm)	268 (6823)
822 to 828 (20890 to 21043 mm)	270 (6874)
828 to 834 (21043 to 21195 mm)	272 (6925)
834 to 840 (21195 to 21348 mm)	274 (6976)
840 to 846 (21348 to 21500 mm)	276 (7027)
846 to 852 (21500 to 21653 mm)	278 (7078)
852 to 858 (21653 to 21805 mm)	280 (7129)
858 to 864 (21805 to 21958 mm)	282 (7180)
864 to 870 (21958 to 22110 mm)	284 (7231)
870 to 876 (22110 to 22263 mm)	286 (7282)
876 to 882 (22263 to 22415 mm)	288 (7333)
882 to 888 (22415 to 22568 mm)	290 (7384)
888 to 894 (22568 to 22720 mm)	292 (7435)
894 to 900 (22720 to 22873 mm)	294 (7486)
900 to 906 (22873 to 23025 mm)	296 (7537)
906 to 912 (23025 to 23178 mm)	298 (7588)
912 to 918 (23178 to 23330 mm)	300 (7639)
918 to 924 (23330 to 23483 mm)	302 (7690)
924 to 930 (23483 to 23635 mm)	304 (7741)
930 to 936 (23635 to 23788 mm)	306 (7792)
936 to 942 (23788 to 23940 mm)	308 (7843)
942 to 948 (23940 to 24093 mm)	310 (7894)
948 to 954 (24093 to 24245 mm)	312 (7945)
954 to 960 (24245 to 24398 mm)	314 (7996)
960 to 966 (24398 to 24550 mm)	316 (8047)
966 to 972 (24550 to 24703 mm)	318 (8098)
972 to 978 (24703 to 24855 mm)	320 (8149)
978 to 984 (24855 to 25008 mm)	322 (8200)
984 to 990 (25008 to 25160 mm)	324 (8251)
990 to 996 (25160 to 25313 mm)	326 (8302)
996 to 1002 (25313 to 25465 mm)	328 (8353)
1002 to 1008 (25465 to 25618 mm)	330 (8404)
1008 to 1014 (25618 to 25770 mm)	332 (8455)
1014 to 1020 (25770 to 25923 mm)	334 (8506)
1020 to 1026 (25923 to 26075 mm)	336 (8557)
1026 to 1032 (26075 to 26228 mm)	338 (8608)
1032 to 1038 (26228 to 26380 mm)	340 (8659)
1038 to 1044 (26380 to 26533 mm)	342 (8710)
1044 to 1050 (26533 to 26685 mm)	344 (8761)
1050 to 1056 (26685 to 26838 mm)	346 (8812)
1056 to 1062 (26838 to 26990 mm)	348 (8863)
1062 to 1068 (26990 to 27143 mm)	350 (8914)
1068 to 1074 (27143 to 27295 mm)	352 (8965)
1074 to 1080 (27295 to 27448 mm)	354 (9016)
1080 to 1086 (27448 to 27600 mm)	356 (9067)
1086 to 1092 (27600 to 27753 mm)	358 (9118)
1092 to 1098 (27753 to 27905 mm)	360 (9169)
1098 to 1104 (27905 to 28058 mm)	362 (9220)
1104 to 1110 (28058 to 28210 mm)	364 (9271)
1110 to 1116 (28210 to 28363 mm)	366 (9322)
1116 to 1122 (28363 to 28515 mm)	368 (9373)
1122 to 1128 (28515 to 28668 mm)	370 (9424)
1128 to 1134 (28668 to 28820 mm)	372 (9475)
1134 to 1140 (28820 to 28973 mm)	374 (9526)
1140 to 1146 (28973 to 29125 mm)	376 (9577)
1146 to 1152 (29125 to 29278 mm)	378 (9628)
1152 to 1158 (29278 to 29430 mm)	380 (9679)
1158 to 1164 (29430 to 29583 mm)	382 (9730)
1164 to 1170 (29583 to 29735 mm)	384 (9781)
1170 to 1176 (29735 to 29888 mm)	386 (9832)
1176 to 1182 (29888 to 30040 mm)	388 (9883)
1182 to 1188 (30040 to 30193 mm)	390 (9934)
1188 to 1194 (30193 to 30345 mm)	392 (9985)
1194 to 1200 (30345 to 30498 mm)	394 (10036)
1200 to 1206 (30498 to 30650 mm)	396 (10087)
1206 to 1212 (30650 to 30803 mm)	398 (10138)
1212 to 1218 (30803 to 30955 mm)	400 (10189)
1218 to 1224 (30955 to 31108 mm)	402 (10240)
1224 to 1230 (31108 to 31260 mm)	404 (10291)
1230 to 1236 (31260 to 31413 mm)	406 (10342)
1236 to 1242 (31413 to 31565 mm)	408 (10393)
1242 to 1248 (31565 to 31718 mm)	410 (10444)
1248 to 1254 (31718 to 31870 mm)	412 (10495)
1254 to 1260 (31870 to 32023 mm)	414 (10546)
1260 to 1266 (32023 to 32175 mm)	416 (10597)
1266 to 1272 (32175 to 32328 mm)	418 (10648)
1272 to 1278 (32328 to 32480 mm)	420 (10699)
1278 to 1284 (32480 to 32633 mm)	422 (10750)
1284 to 1290 (32633 to 32785 mm)	424 (10801)
1290 to 1296 (32785 to 32938 mm)	426 (10852)
1296 to 1302 (32938 to 33090 mm)	428 (10903)
1302 to 1308 (33090 to 33243 mm)	430 (10954)
1308 to 1314 (33243 to 33395 mm)	432 (11005)
1314 to 1320 (33395 to 33548 mm)	434 (11056)
1320 to 1326 (33548 to 33700 mm)	436 (11107)
1326 to 1332 (33700 to 33853 mm)	438 (11158)
1332 to 1338 (33853 to 34005 mm)	440 (11209)
1338 to 1344 (34005 to 34158 mm)	442 (11260)
1344 to 1350 (34158 to 34310 mm)	444 (11311)
1350 to 1356 (34310 to 34463 mm)	446 (11362)
1356 to 1362 (34463 to 34615 mm)	448 (11413)
1362 to 1368 (34615 to 34768 mm)	450 (11464)
1368 to 1374 (34768 to 34920 mm)	452 (11515)
1374 to 1380 (34920 to 35073 mm)	454 (11566)
1380 to 1386 (35073 to 35225 mm)	456 (11617)
1386 to 1392 (35225 to 35378 mm)	458 (11668)
1392 to 1398 (35378 to 35530 mm)	460 (11719)
1398 to 1404 (35530 to 35683 mm)	462 (11770)
1404 to 1410 (35683 to 35835 mm)	464 (11821)
1410 to 1416 (35835 to 35988 mm)	466 (11872)
1416 to 1422 (35988 to 36140 mm)	468 (11923)
1422 to 1428 (36140 to 36293 mm)	470 (11974)
1428 to 1434 (36293 to 36445 mm)	472 (12025)
1434 to 1440 (36445 to 36598 mm)	474 (12076)
1440 to 1446 (36598 to 36750 mm)	476 (12127)
1446 to 1452 (36750 to 36903 mm)	478 (12178)
1452 to 1458 (36903 to 37055 mm)	480 (12229)
1458 to 1464 (37055 to 37208 mm)	482 (12280)
1464 to 1470 (37208 to 37360 mm)	484 (12331)
1470 to 1476 (37360 to 37513 mm)	486 (12382)
1476 to 1482 (37513 to 37665 mm)	488 (12433)
1482 to 1488 (37665 to 37818 mm)	490 (12484)
1488 to 1494 (37818 to 37970 mm)	492 (12535)
1494 to 1500 (37970 to 38123 mm)	494 (12586)
1500 to 1506 (38123 to 38275 mm)	496 (12637)
1506 to 1512 (38275 to 38428 mm)	498 (12688)
1512 to 1518 (38428 to 38580 mm)	500 (12739)
1518 to 1524 (38580 to 38733 mm)	502 (12790)
1524 to 1530 (38733 to 38885 mm)	504 (12841)
1530 to 1536 (38885 to 39038 mm)	506 (12892)
1536 to 1542 (39038 to 39190 mm)	508 (12943)
1542 to 1548 (39190 to 39343 mm)	510 (12994)
1548 to 1554 (39343 to 39495 mm)	512 (13045)
1554 to 1560 (39495 to 39648 mm)	514 (13096)
1560 to 1566 (39648 to 39800 mm)	516 (13147)
1566 to 1572 (39800 to 39953 mm)	518 (13198)
1572 to 1578 (39953 to 40105 mm)	520 (13249)
1578 to 1584 (40105 to 40258 mm)	522 (13300)
1584 to 1590 (40258 to 40410 mm)	524 (13351)
1590 to 1596 (40410 to 40563 mm)	526 (13402)
1596 to 1602 (40563 to 40715 mm)	528 (13453)
1602 to 1608 (40715 to 40868 mm)	530 (13504)
1608 to 1614 (40868 to 41020 mm)	532 (13555)
1614 to 1620 (41020 to 41173 mm)	534 (13606)
1620 to 162	