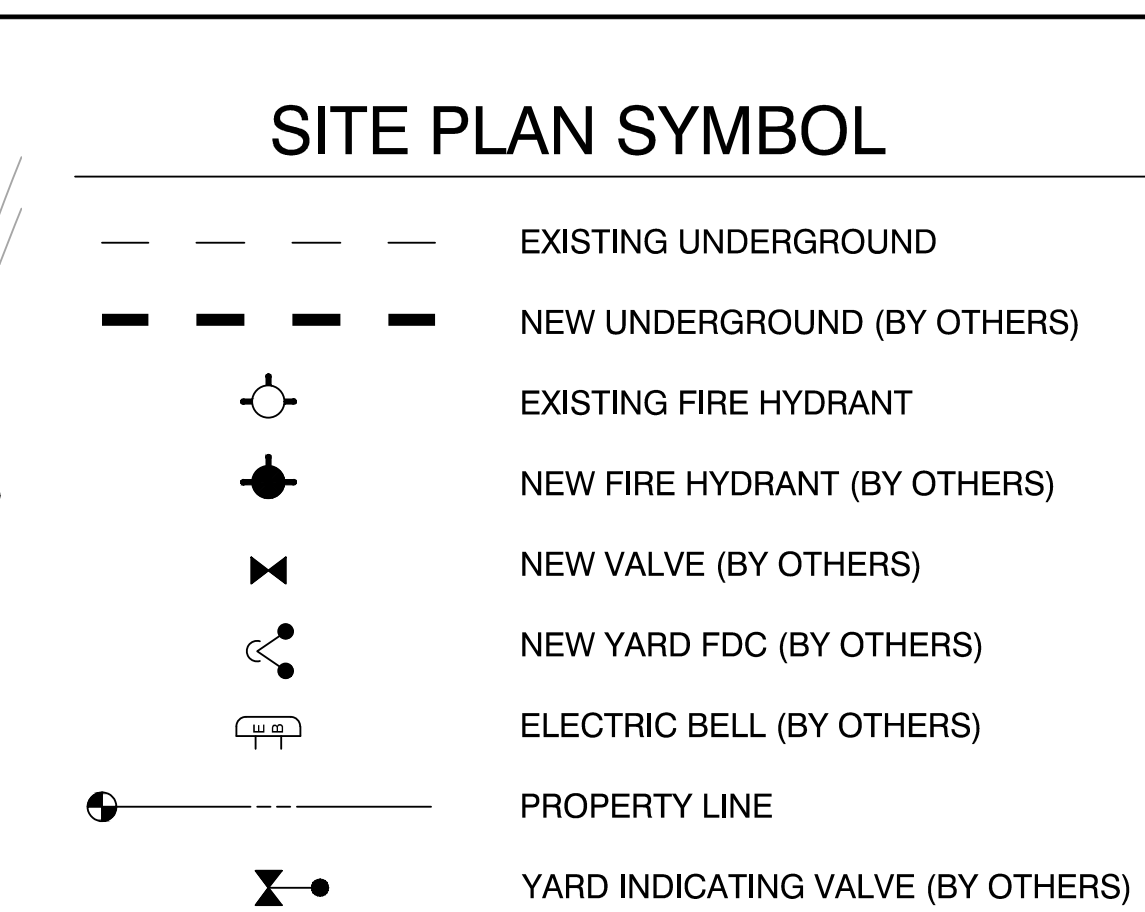
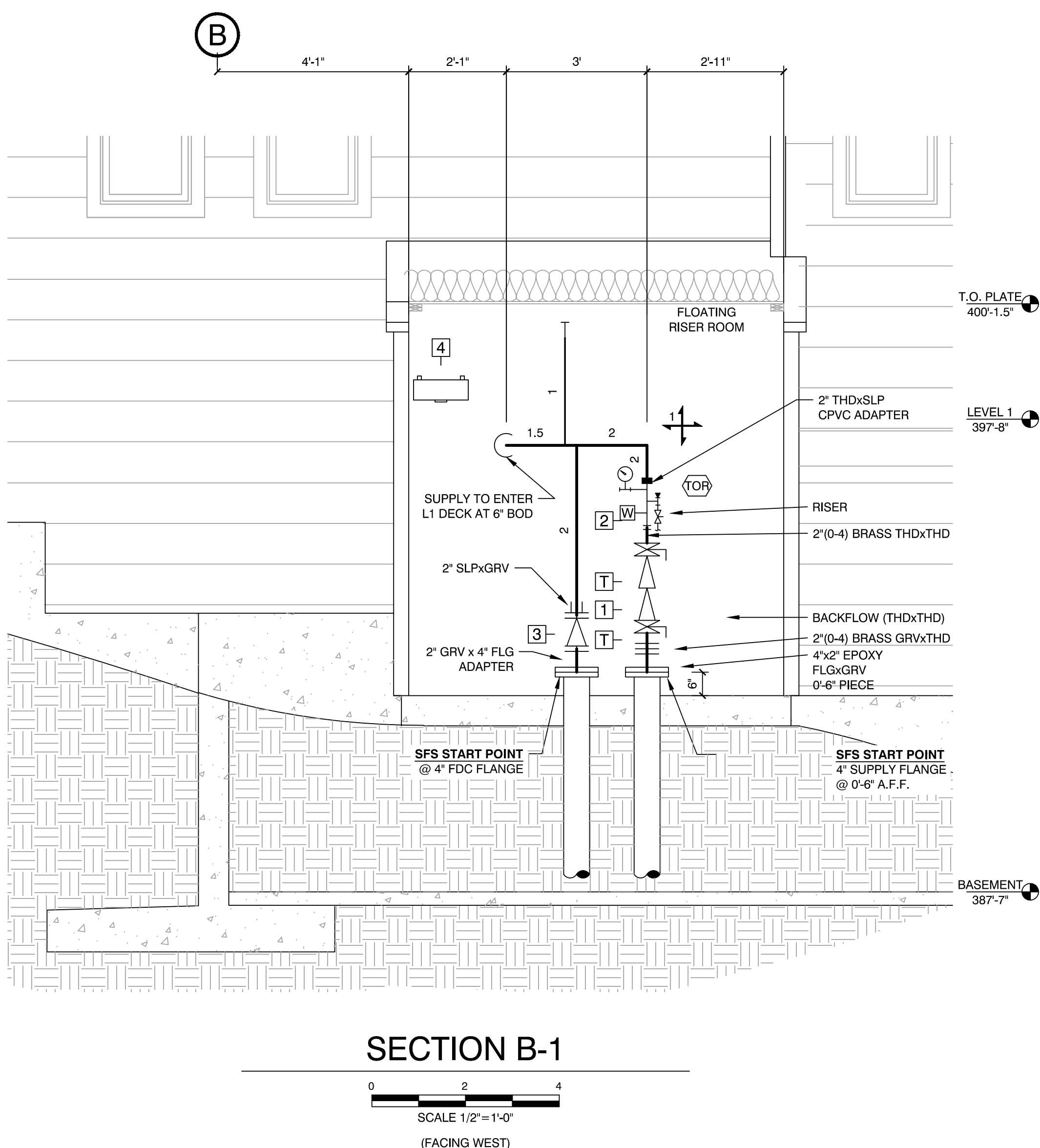


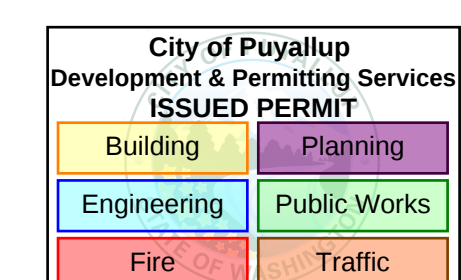
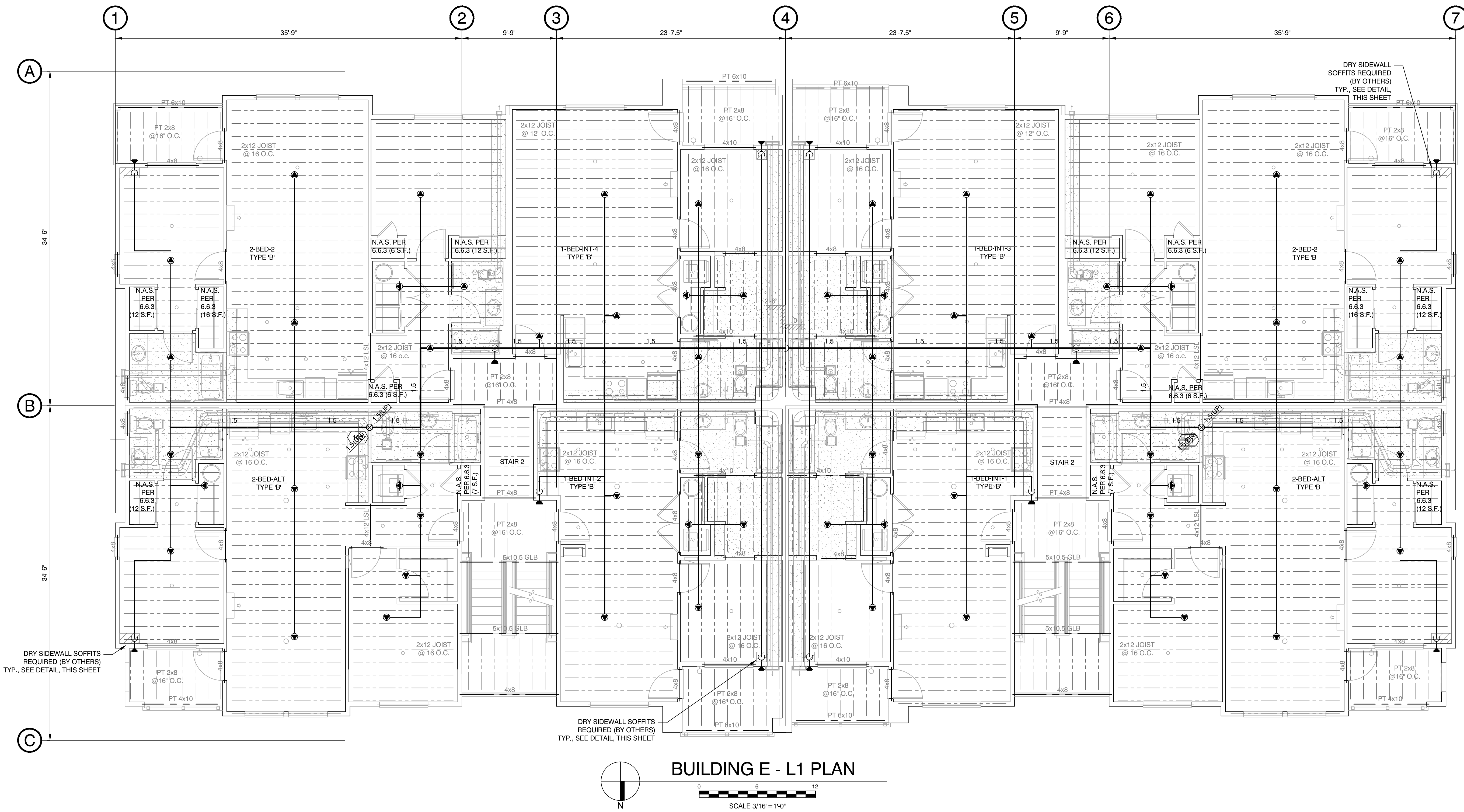


STEEL PIPE ASTM A - 53 /ASTM A - 796 OR BETTER						
R/P	SCHEDULE	WALL THICKNESS	INTERNAL DIAMETER	END PREP TYPES ALLOWED	WEIGHT OF PIPE PER LINEAL FOOT	CAPACITY
1	40	0.133	1.049	THEADED, CUT GROOVED, ROLL GROOVED, PLAIN END, POLISHED	2.05	0.044
1 1/4	40	0.140	1.380	THEADED, CUT GROOVED, ROLL GROOVED, PLAIN END, POLISHED	2.92	0.078
2	40	0.148	1.711	THEADED, CUT GROOVED, ROLL GROOVED, PLAIN END, POLISHED	3.79	0.107
2	FLOW PIPE	0.095	2.185	ROLL GROOVED, POLISHED, PLAIN END (FOR BUTT WELDING)	3.94	0.108
2 1/2	FLOW PIPE	0.086	2.703	ROLL GROOVED, PLAIN END (FOR BUTT WELDING)	5.10	0.298
3	FLOW PIPE	0.083	3.314	ROLL GROOVED, PLAIN END (FOR BUTT WELDING)	6.48	0.448
4	FLOW PIPE	0.102	4.208	ROLL GROOVED, PLAIN END (FOR BUTT WELDING)	11.09	0.878
5	10	0.134	5.995	ROLL GROOVED, PLAIN END (FOR BUTT WELDING)	17.300	1.144
6	10	0.134	6.337	ROLL GROOVED, PLAIN END (FOR BUTT WELDING)	18.300	1.649
**	**	** THICKNESS PER NFPA 613	**	** ROLL GROOVED, PLAIN END (FOR BUTT WELDING)	40.080	2.78

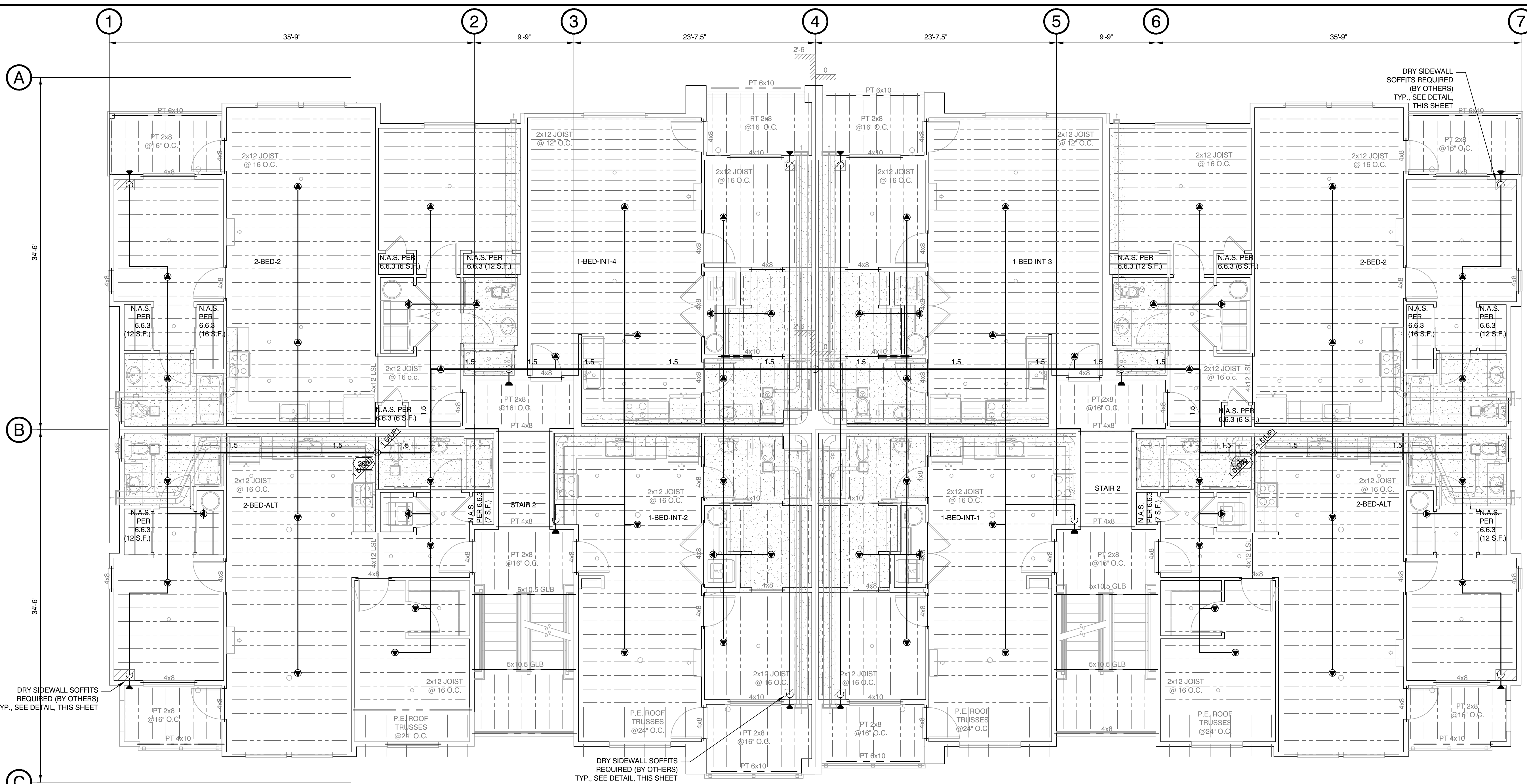
PIPE SIZE	INTERNAL DIAMETER	WALL THICKNESS	END PREP TYPES ALLOWED	WEIGHT OF WATER PIPE	CAPACITY IN GALLONS
3/4	0.874	0.088	PLAIN END	0.427	0.0312
1	1.011	0.107	PLAIN END	0.674	0.0485
1 1/4	1.294	0.133	PLAIN END	1.076	0.0793
1 1/2	1.598	0.151	PLAIN END	1.412	0.1042
2	2.003	0.186	PLAIN END	2.223	0.1637
** PER SDR 13.5 ASTM F 442					

WET SYSTEM NUMBER 1			
	AREA	SQ. FT.	SPRINKLERS
	BASEMENT 1	4198	44
	FLOOR 1	8066	74
	FLOOR 2	8194	75
	FLOOR 3	8046	78
TOTAL:		28,504	271
<u>MOST DEMANDING AREA: SYS. 1</u> MOST DEMANDING (1) SPRINKLER(S) AT 7 PSI			
BASE OF RISER:	68.1 GPM REQUIRED AT 70.7 PSI		
SUMMARY:	68.1 GPM REQUIRED AT 87.7 PSI		
AT CONNECTION TO SOURCE (INCLUDING GPM FOR HOSE STREAMS)			





DESIGNER	PROJECT MGR	DATE	SHEET
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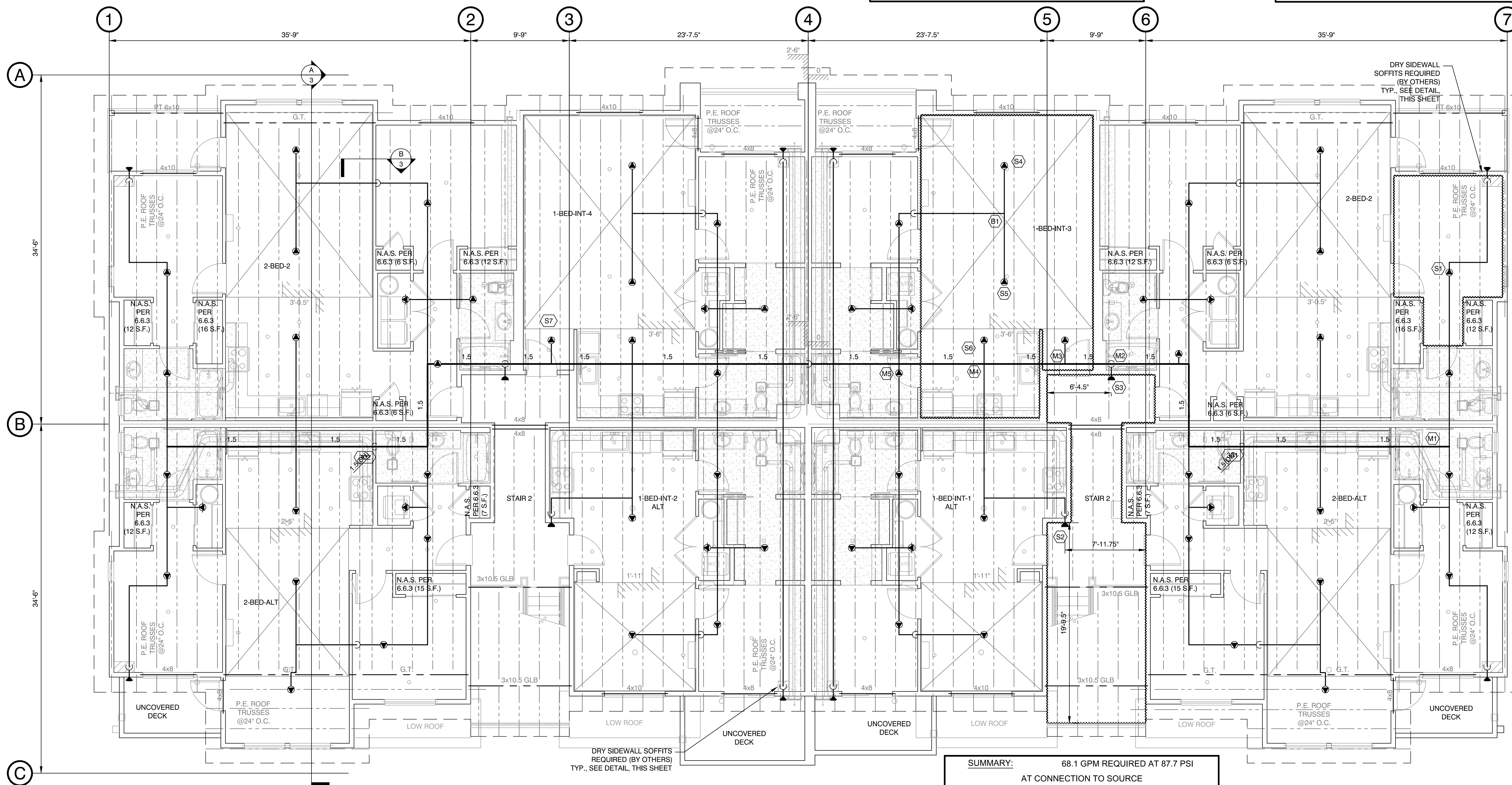


BUILDING E - L2 PLAN

SCALE 3/16" = 1'-0"

AUXILIARY DEMANDING AREA: SYS. 1
DENSITY: 0.05 GPM OVER 4 HEADS
BASE OF RISER: 61.5 GPM REQUIRED AT 56.9 PSI

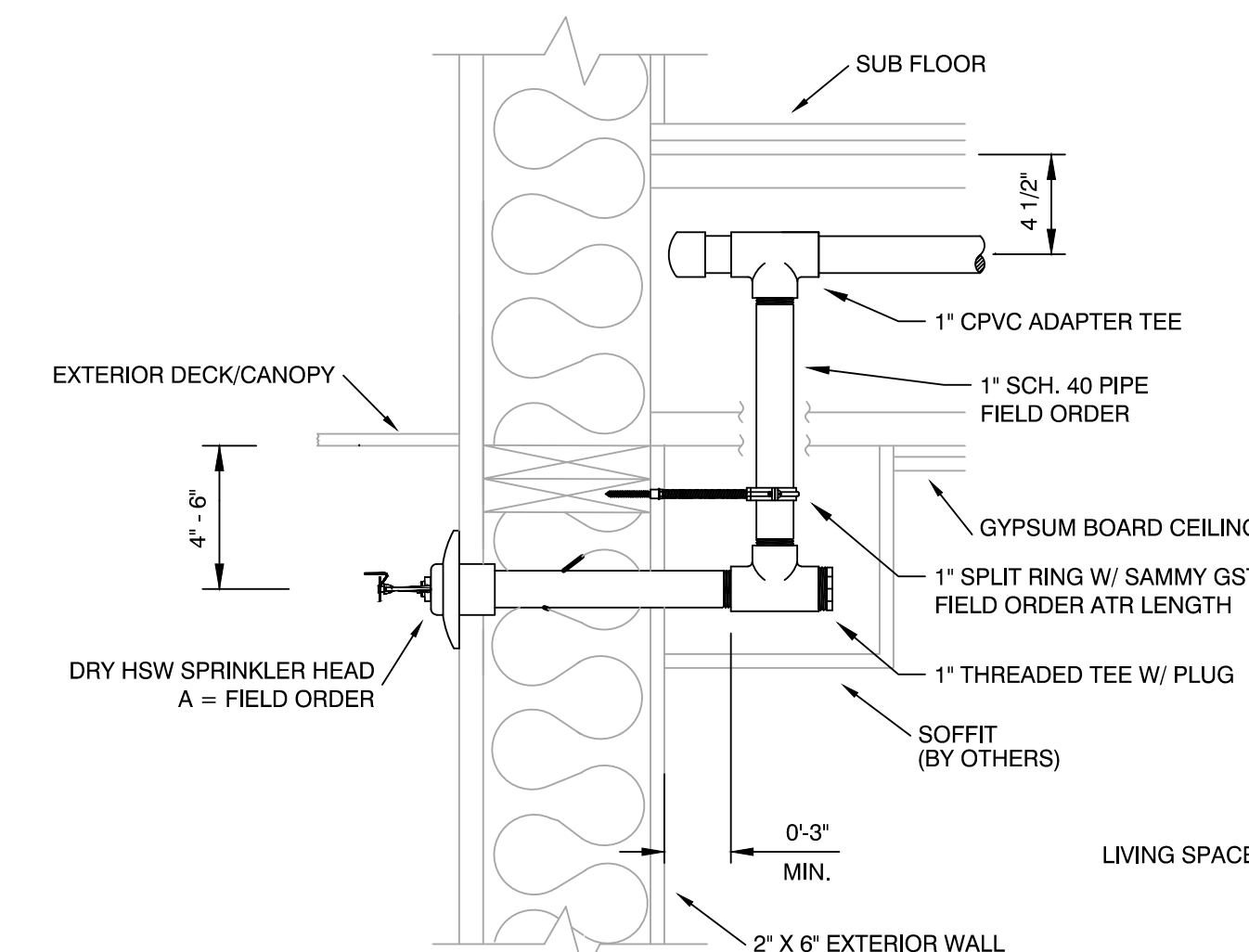
AUXILIARY DEMANDING AREA: SYS. 1
DENSITY: 0.05 GPM OVER 4 HEADS
BASE OF RISER: 20 GPM REQUIRED AT 34.5



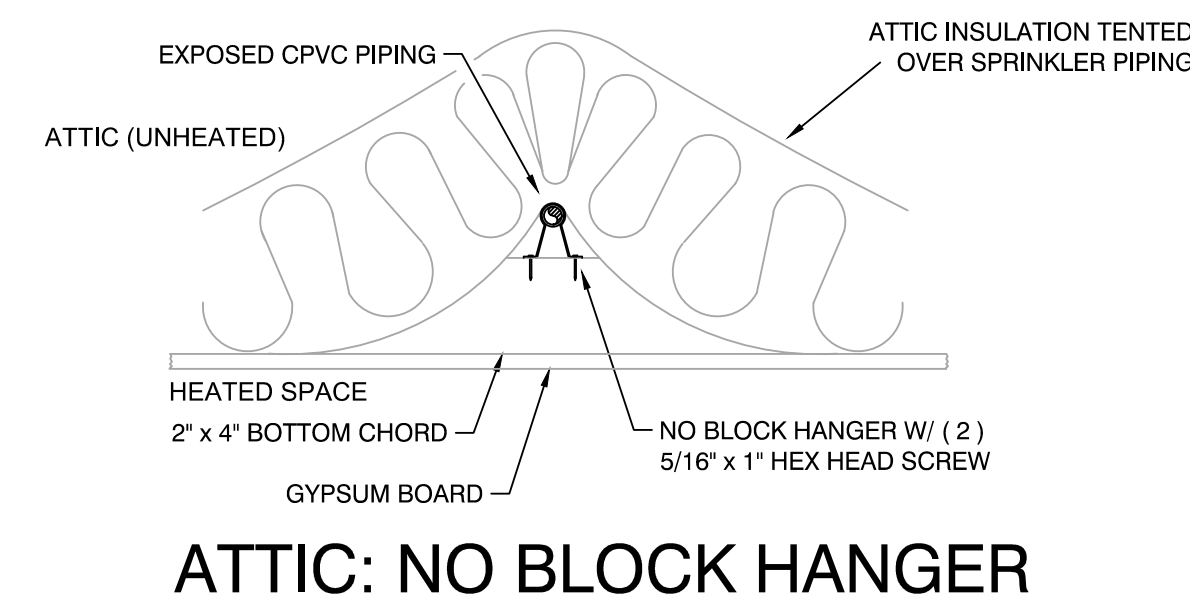
BUILDING E - L3 PLAN

SCALE 3/16" = 1'-0"

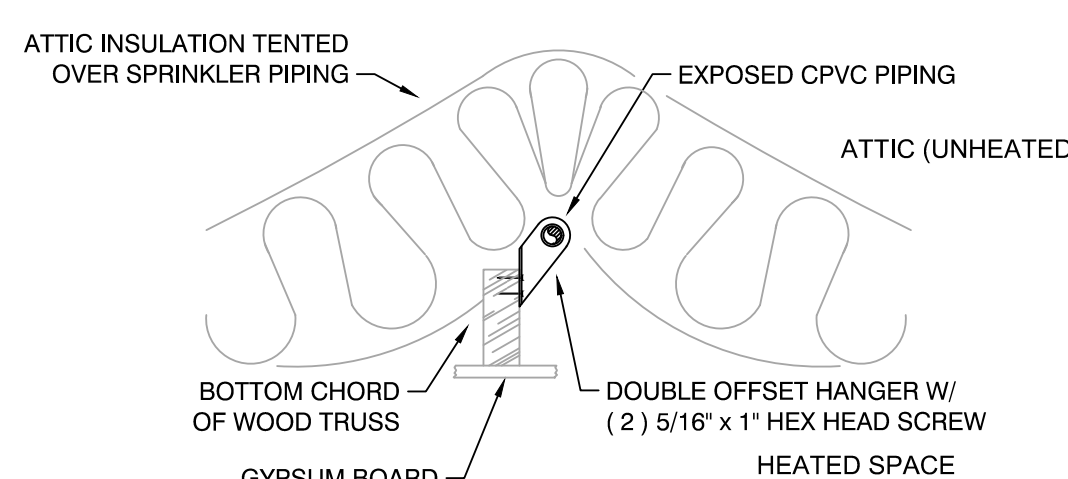
SUMMARY: 68.1 GPM REQUIRED AT 87.7 PSI
AT CONNECTION TO SOURCE
(INCLUDING 0 GPM FOR HOSE STREAMS)



DRY SIDEWALL DETAIL



ATTIC: NO BLOCK HANGER



ATTIC: DOUBLE OFFSET HANGER

CEILING LEGEND

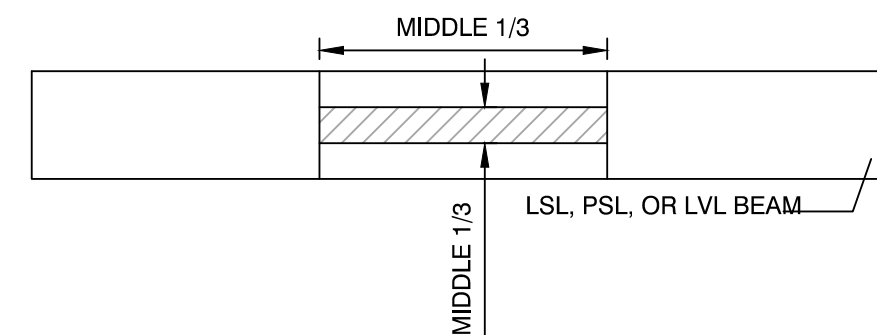
- GWB SOFFIT AT 9'-1" AFF
- GWB SOFFIT AT 8'-3" AFF
- GYPSUM BOARD CEILING
- 1" SPLIT RING W/ SAMMY GST 30 FIELD ORDER ATR LENGTH
- 1" THREADED TEE W/ PLUG
- SOFFIT (BY OTHERS)

WALL LEGEND

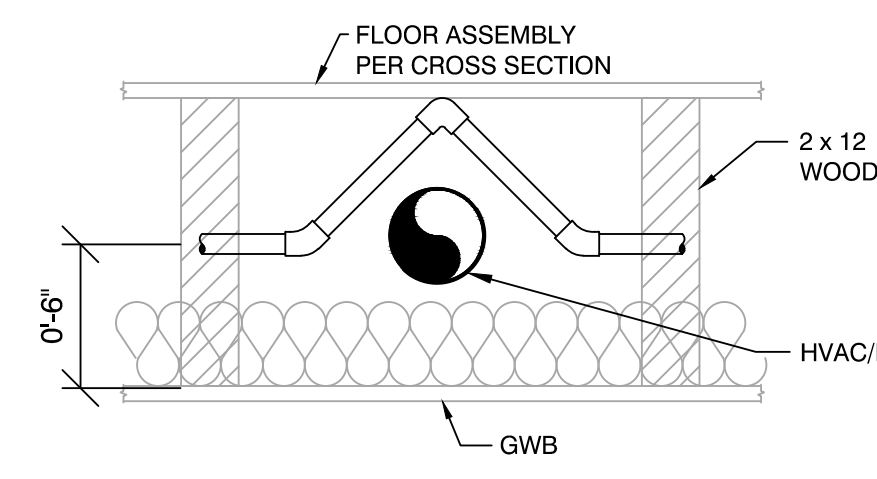
- FULL HEIGHT, 1-HR FIRED WALL
- FULL HEIGHT WALL

CPVC NOTES

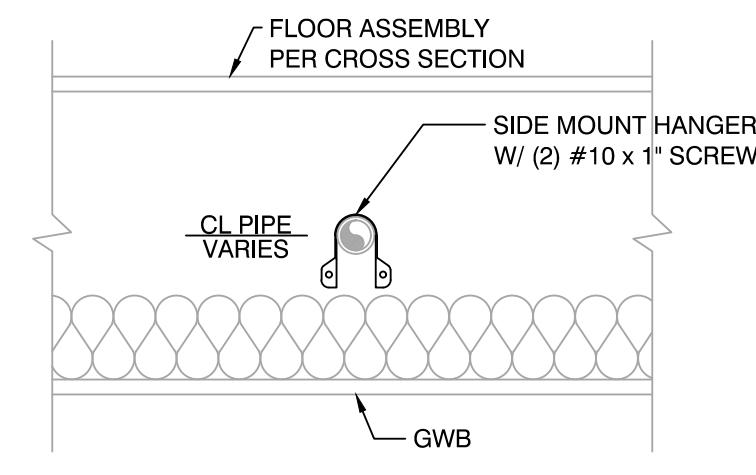
- CPVC PIPE IS NOTED AS: SIZE PER PLAN
- ALL CPVC ELEVATION TO BE 6 BOD, U.N.O.
- ALL CPVC TO BE BRACED PER DETAIL ON SHEET 4
- ALL CPVC BRANCHLINES AND DROPS TO BE 1", U.N.O.
- ALL CPVC MAINS TO BE 1.5", U.N.O.
- HANGER SPACING FOR CPVC PIPING IS PER MANUFACTURER'S LISTING AS FOLLOWS:
1" CPVC 6'-0" O.C.
1-1/4" CPVC 6'-6" O.C.
1-1/2" CPVC 7'-0" O.C.
2" CPVC 8'-0" O.C.
- RELIABLE F1RES49 RESIDENTIAL SPRINKLERS SHALL NOT BE SPACED MORE THAN 9 FEET FROM A WALL IN ANY ONE DIRECTION OR 18 FEET BETWEEN SPRINKLERS IN COMPARTMENTS WITH (2) OR MORE HEADS.
- RELIABLE F1RES49 RESIDENTIAL SPRINKLERS SHALL NOT BE SPACED MORE THAN 10 FEET FROM A WALL IN ANY ONE DIRECTION OR 20 FEET BETWEEN SPRINKLERS IN COMPARTMENTS WITH (1) HEAD.
- TYCOO DS-1 EXTENDED COVERAGE DRY HORIZONTAL SIDEWALL HEADS TO BE SPACED NO GREATER THAN 14' FROM ADJACENT WALLS AND A MAXIMUM OF 14' FROM OPPOSITE WALLS PER NFPA 13(2019).
- RELIABLE F3QR DRY HORIZONTAL SIDEWALL HEADS TO BE PLACED NO GREATER THAN 14' FROM ADJACENT WALLS AND A MAXIMUM OF 14' FROM OPPOSITE WALLS PER NFPA 13(2019).
- RELIABLE F1RES49 RESIDENTIAL SPRINKLERS SHALL NOT BE SPACED LESS THAN 18" FROM PROTRUDING LIGHT FIXTURES.



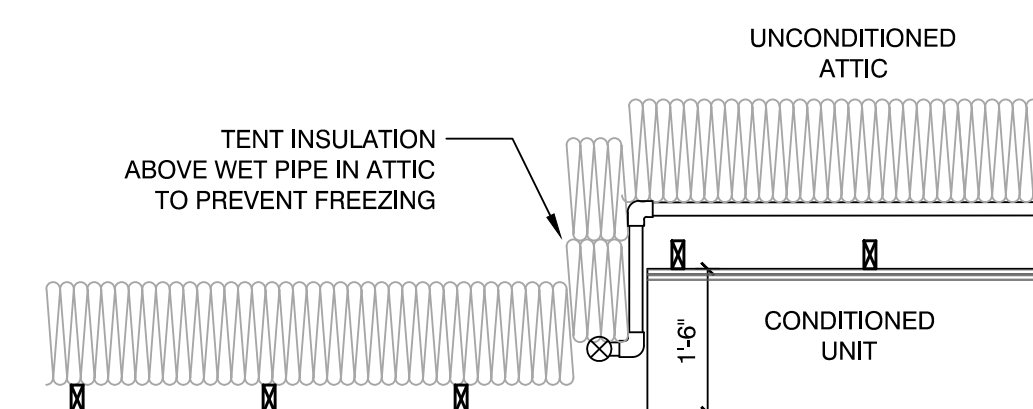
BEAM PENETRATION DETAIL



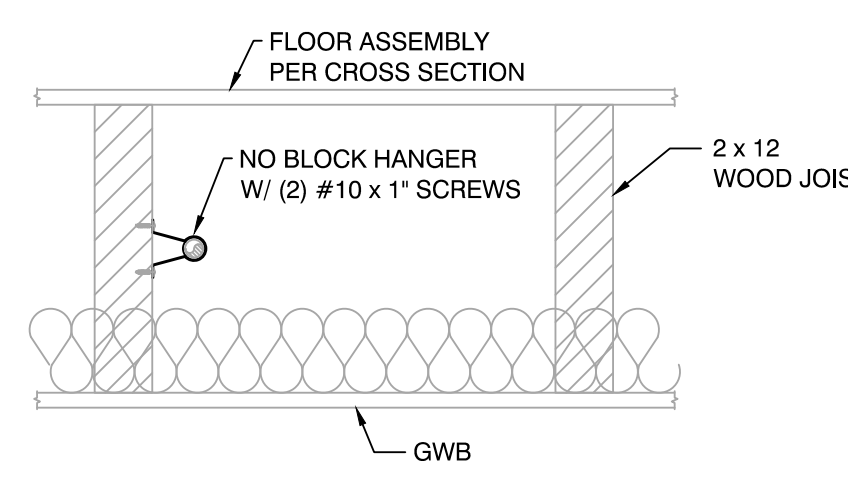
TYP. CPVC OFFSET



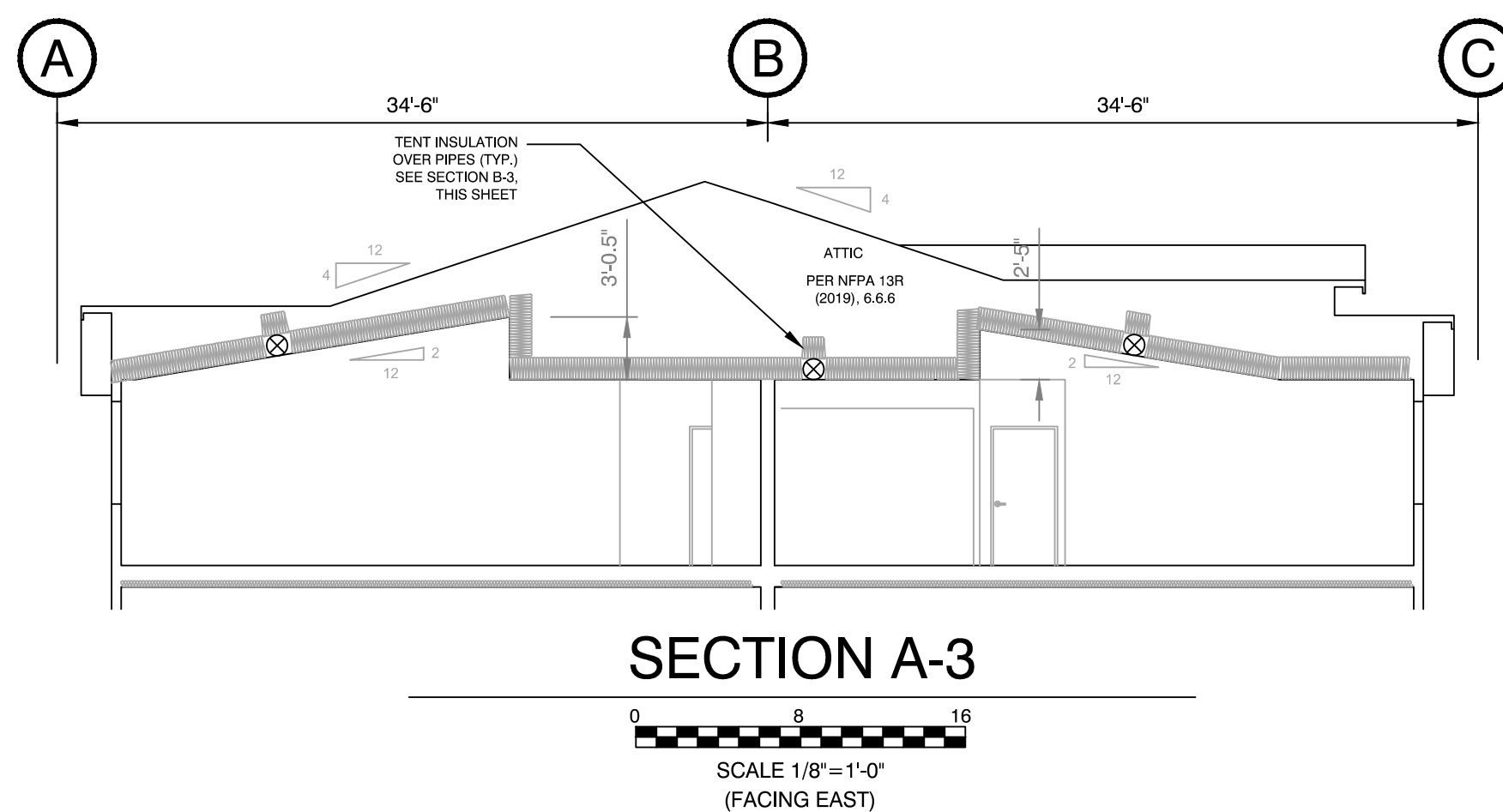
SIDE MOUNT HANGER



SECTION B-3



NO BLOCK HANGER



SECTION A-3

SCALE 1/8" = 1'-0"

(FACING EAST)

FITTER NOTES

- 2x12 WOOD JOISTS, 16" O.C., TYP., U.N.O.

L2 & L3 SPRINKLER LEGEND

SYMBOL	MANUFACTURER	SIN	TYPE	MODEL	HEAD FINISH	TRIM FINISH	ORIFICE	THREAD	TEMP	QTY
▲	RELIABLE	RA1684	EC DSHW	DH56	CHRM	CHRM	5.6K	1"	155°	14
●	TYCO	TY3338	EC DSHW	DS-1	CHRM	CHRM	5.6K	1"	155°	6
●	RELIABLE	R5316	SSP	F1RES49	WHITE	WHITE	4.9K	1/2"	155°	108
●	RELIABLE	R5316	SSP	F1RES49	WHITE	WHITE	4.9K	1/2"	175°	20
TOTAL										148

ABBREVIATIONS

▲	10 BOD
●	2-WAY EARTHQUAKE SWAY BRACE
●	4-WAY EARTHQUAKE SWAY BRACE
●	HANGER LOCATION
●	ELEVATION ABOVE REFERENCED POINT IN FEET AND INCHES
●	HYDRAULIC CALCULATION NODE
●	FLEXIBLE COUPLING
●	RIGID COUPLING

SYMBOL LEGEND

▲	10 BOD
●	2-WAY EARTHQUAKE SWAY BRACE
●	4-WAY EARTHQUAKE SWAY BRACE
●	HANGER LOCATION
●	ELEVATION ABOVE REFERENCED POINT IN FEET AND INCHES
●	HYDRAULIC CALCULATION NODE
●	FLEXIBLE COUPLING
●	RIGID COUPLING

REVISIONS

NO	DATE	BY	REASON FOR REVISION

CONTRACT WITH

RUSH COMMERCIAL
CONSTRUCTION INC.
411 1ST AVE S
SUITE #650
SEATTLE, WA 98104
PROJECT MANAGER : EVAN COCHRAN
PHONE : ECOCHRAN@RUSHCOMPANIES.COM
FAX :
SUPERINTENDENT :
PHONE :
FAX :



CERTIFICATE OF COMPETENCY STAMP

KEY PLAN

L1-L2 FLOOR PLAN

SMITH FIRE SYSTEMS, INC.
1106 54th AVE EAST
TACOMA, WA 98424
CONTR. REG. NO. SMITHFS1360T
Bus: (253) 926-1880 FAX: (253) 926-2350

BRADLEY HEIGHTS APARTMENTS BUILDING E

206 27TH AVE SE
PUYALLUP, WA 98374

DESIGNER	PROJECT MGR	DATE	SHEET	JOB NO.
A. RIDEOUT	N. GRASSI	09/30/25	3 OF 3	TC25207