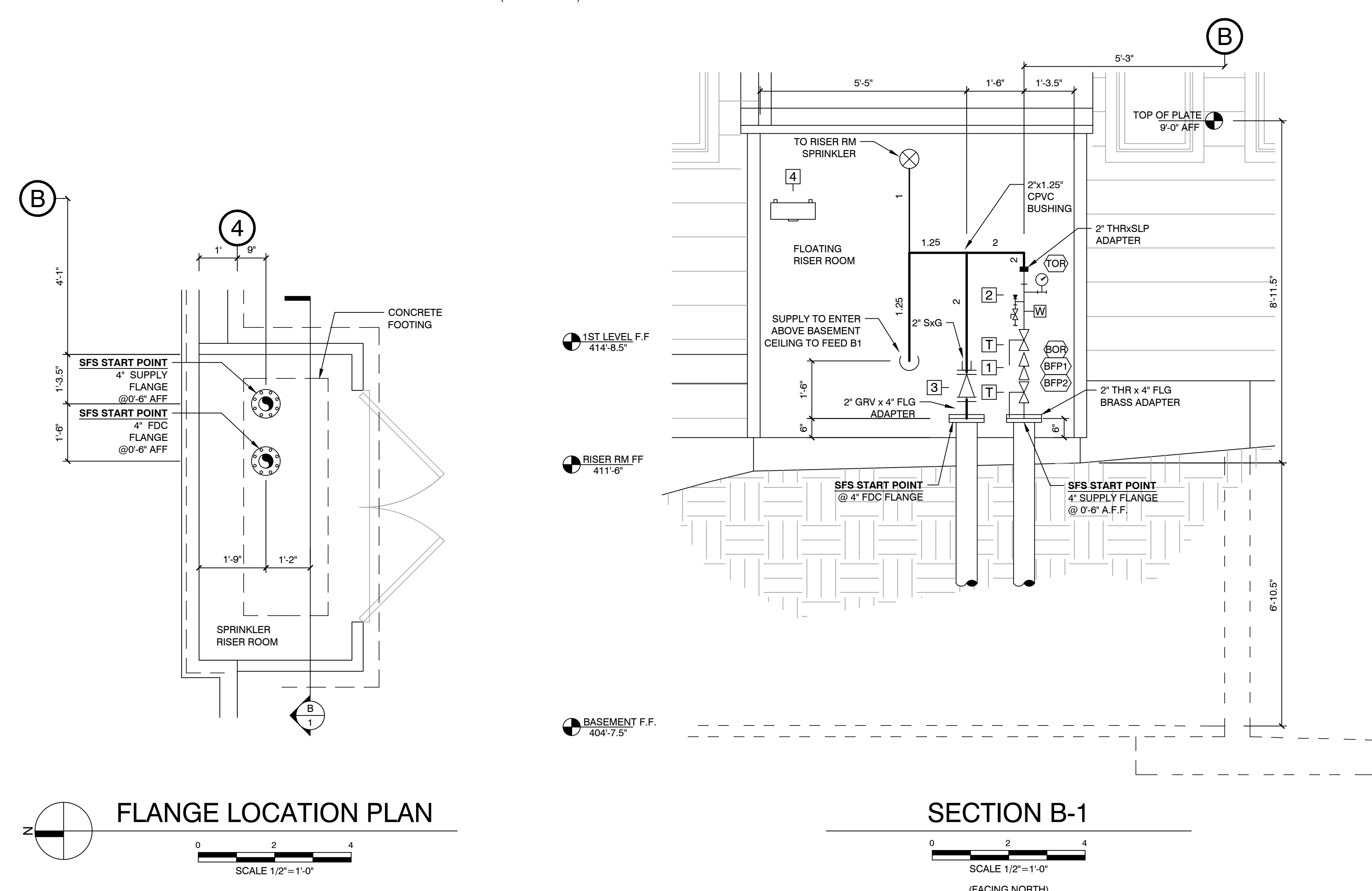
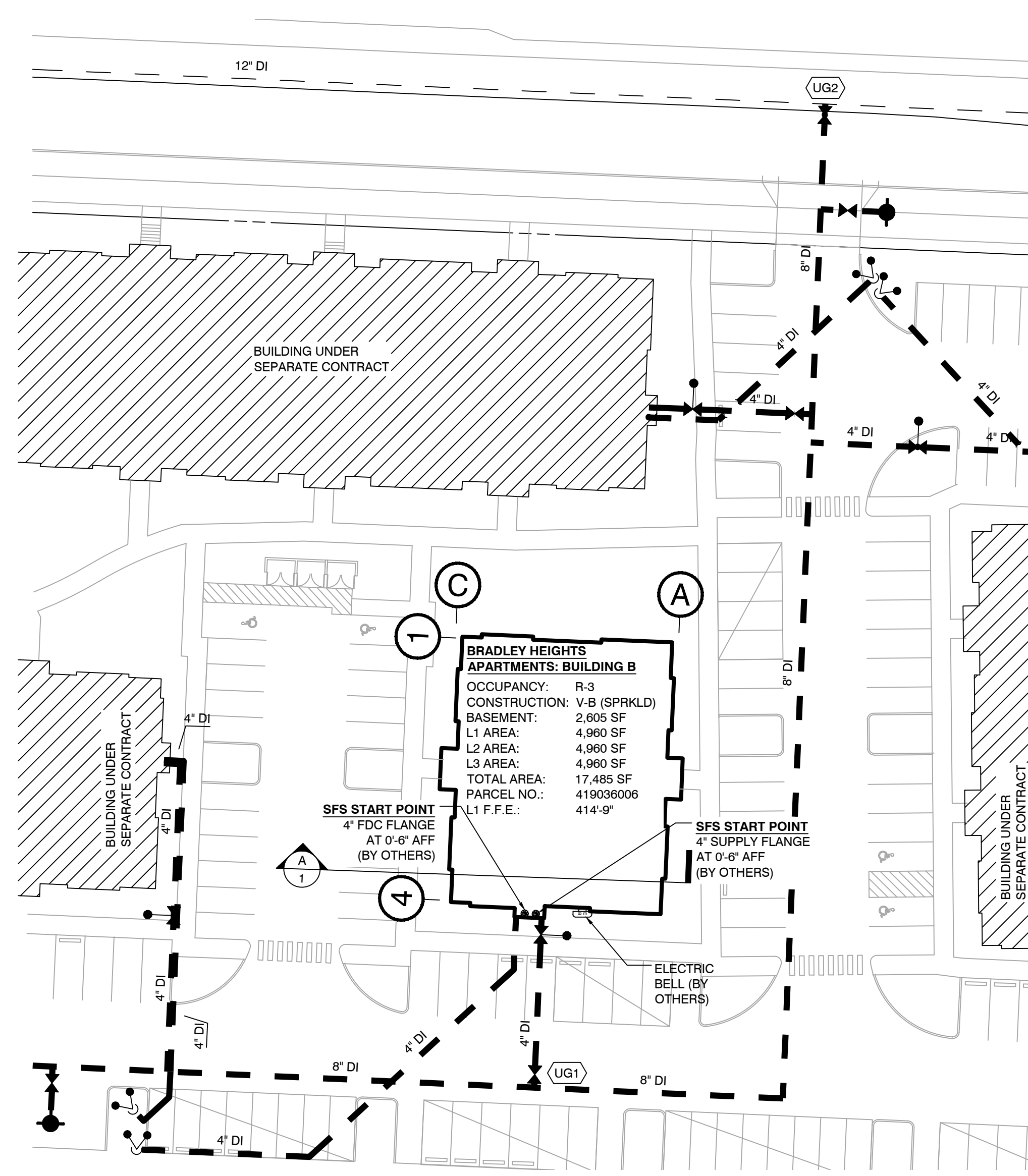




PIPE SIZE	INTERNAL DIAMETER	WALL THICKNESS	END PREP TYPES ALLOWED	WEIGHT OF WATER PIPE	CAPACITY IN GALLONS
3/4	0.874	0.088	PLAIN END	0.427	0.0312
1	1.101	0.107	PLAIN END	0.674	0.0485
1 1/4	1.294	0.133	PLAIN END	1.078	0.0785
1 1/2	1.595	0.151	PLAIN END	1.412	0.1042
2	2.203	0.186	PLAIN END	2.223	0.1637

** PER SDR 13.5 ASTM E 442

SMITH FIRE SYSTEMS (SFS) WILL INSTALL A WET PIPE SPRINKLER SYSTEM TO PROTECT THE BUILDING. SFS WILL START INSIDE AT A 4" SUPPLY FLANGE AND 4" YARD FDC FLANGE PROVIDED BY OTHERS. THE SYSTEM WILL BE INSTALLED PER THE 2019 EDITION OF NFPA 13R AND THE CITY OF PUYALLUP.

- ALL AREAS PROTECTED BY WET SYSTEMS MUST BE MAINTAINED AT A MINIMUM OF 40°F.
- ATTIC INSULATION WILL BE TENTED (BY OTHERS) OVER THE WET SPRINKLER PIPE.
- GARAGE INSULATION WILL BE TENTED (BY OTHERS) UNDER THE WET SPRINKLER PIPE.
- DRY SIDEWALL SPRINKLERS REQUIRE A MINIMUM BARREL LENGTH OF 3' INSIDE THE HEATED SPACE; ADDITIONAL SOFFITS MAY BE REQUIRED (BY OTHERS) TO MAINTAIN THE MINIMUM SPECIFIED LENGTH WITHIN THE HEATED SPACE.

1. PAINTING OR LABELING OF PIPE BEYOND THE REQUIREMENTS OF NFPA #13
2. ELECTRICAL WIRING OF ANY KIND
3. SOFFITS TO CONCEAL PIPING.
4. STRUCTURAL REVIEW
5. HEAT TRACE AND INSULATION. (NONE ANTICIPATED.)
6. FIRE ALARM SYSTEM AND MONITORING.
7. UNDERGROUND WORK OF ANY KIND.

RESIDENTIAL:
 NFPA 13R (2019) SECTION 7.1.1.1:
 BASE DESIGN DENSITY: 0.05 GPM/SQ FT

NFPA 13R (2019) SECTION 7.1.1.3.1:
 BASE DESIGN AREA: ALL OF THE SPRINKLERS WITHIN A COMPARTMENT, UP TO A MAXIMUM OF (4) SPRINKLERS, THAT REQUIRE THE GREATEST HYDRAULIC DEMAND.

BREEZEWAYS & BALCONIES:
BASE DESIGN DENSITY
PER NFPA 13 (2019) 19.4.1.3: 0.1 GPM/SQ FT OR MIN. REQUIRED DISCHARGE INDICATE
IN THE SPRINKLER LISTINGS (WHICHEVER IS GREATER)

FINAL DENSITY/AREA: 7 PSI/0.1GPM OVER (4) SPRINKLERS

WET SYSTEM NUMBER 1		
AREA	SQ. FT.	SPRINKLERS
BASEMENT	2605	23
FLOOR 1	4960	49
FLOOR 2	4960	48
FLOOR 3	4960	52
TOTAL:	17485	172
MOST DEMANDING AREA: SYS. 1		
MOST DEMANDING (4) SPRINKLER(S) AT 7 PSI		
BASE OF RISER:	61.8 GPM REQUIRED AT 59.0 PSI	
SUMMARY:	61.8 GPM REQUIRED AT 83.1 PSI	
AT CONNECTION TO SOURCE (INCLUDING 6 GPM FOR HOSE STREAMS)		

SPARE SPRINKLERS							
MANUFACTURER	TYPE	MODEL	FINISH	K FACTOR	THREAD SIZE	TEMP	QTY
RELIABLE	SSP	F1RES49	WHT	4.9	1/2"	155°	8
RELIABLE	SSP	F1RES49	WHT	4.9	1/2"	175°	3
RELIABLE	SSU	F1FR56	BRZ	5.6	1/2"	155°	1

SPARE WRENCHES	
RELIABLE MODEL W2 HEAD WRENCH	
RELIABLE MODEL F3R HEAD WRENCH	

EQUIPMENT LIST						
ITEM	QTY	SIZE	DESCRIPTION	MANUFACTURER	MODEL	
1	1	2"	DOUBLE CHECK DETECTOR BACKFLOW ASSEMBLY	ZURN	950X12ABFSS	
2	1	2"	PRE-ASSEMBLED TEST & DRAIN RISER	AGF	8251R	
3	1	2"	CHECK VALVE	ALEUM	DGC	
4	1	12 HEAD	SPARE SPRINKLER STORAGE CABINET	RELIABLE	RHB1	

1. PIPE ALL DRAINS TO SAFE DISCHARGE OUTSIDE
2. RISER ROOM MUST BE MAINTAINED BY OTHERS AT A MINIMUM OF 40° F
3. MAINTAIN 2" ANNULAR SPACE AROUND ALL PIPE PASSING THROUGH CONCRETE FLOORS

STATIC	95	PSI
RESIDUAL	90	PSI
FLOWING	1055	GPM
LOCATION OF TEST	202 27TH AVE SE	
DATE OF TEST	04/19/2001	
DATA SUPPLIED BY	FRUITLAND WATER	
ELEV. OF FLOW TEST:	0 FT.	

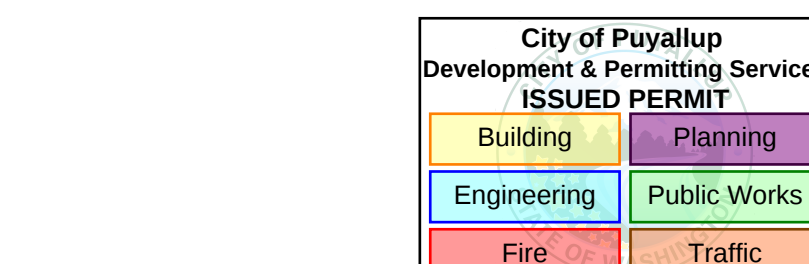
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AFB	ABOVE FINISHED FLOOR
B0B	BOTTOM OF BEAM
B0D	BOTTOM OF DECK
B0J	BOTTOM OF JOIST
B0P	BOTTOM OF PURLIN
B0T	BOTTOM OF TRUSS
CTS	CUT TO SUIT
FO	FIELD ORDER
IFW	INSIDE FACE OF WALL
OFW	OUTSIDE FACE OF WALL
NAS	NO AUTO. SPRINKLERS
UNO	UNLESS NOTED OTHERWISE

SYMBOL LEGEND	
	CENTERLINE OF PIPE TO REFERENCE STRUCTURE IN INCHES
	2-WAY EARTHQUAKE SWAY BRACE LETTER INDICATES TYPE
	4-WAY EARTHQUAKE SWAY BRACE LETTER INDICATES TYPE
	HANGER LOCATION
	ELEVATION ABOVE REFERENCED POINT IN FEET AND INCHES
	HYDRAULIC CALCULATION NODE
	FLEXIBLE COUPLING
	RIGID COUPLING

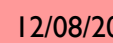
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CONTRACT WITH
RUSH COMMERCIAL
CONSTRUCTION INC.,
411 1ST AVE S
SUITE #650
SEATTLE, WA 98104
PROJECT MANAGER : EVAN COCHRAN
PHONE : ECOCHRAN@RUSHCOMPANIES.COM
FAX :
SUPERINTENDENT :
PHONE :
FAX :



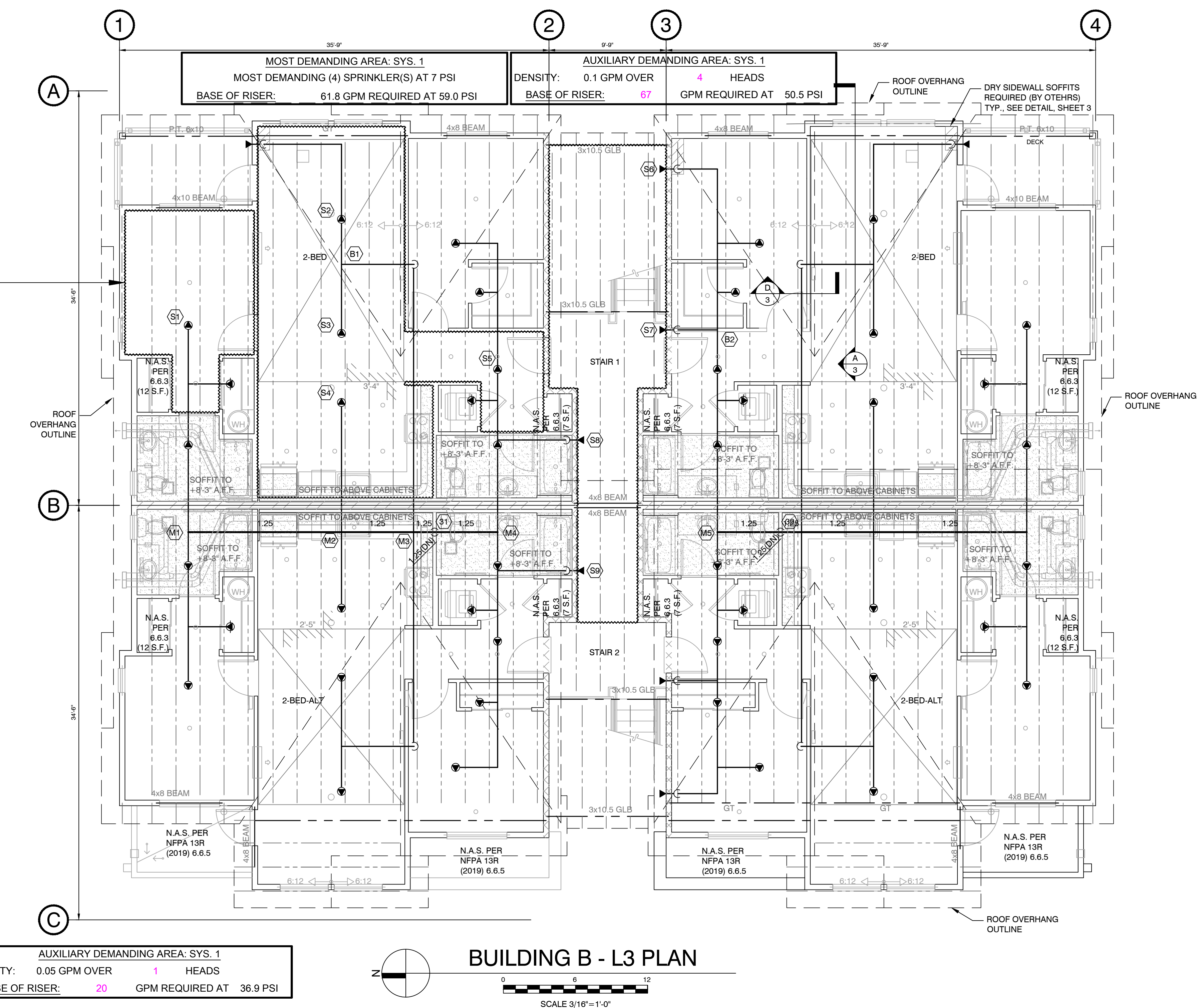
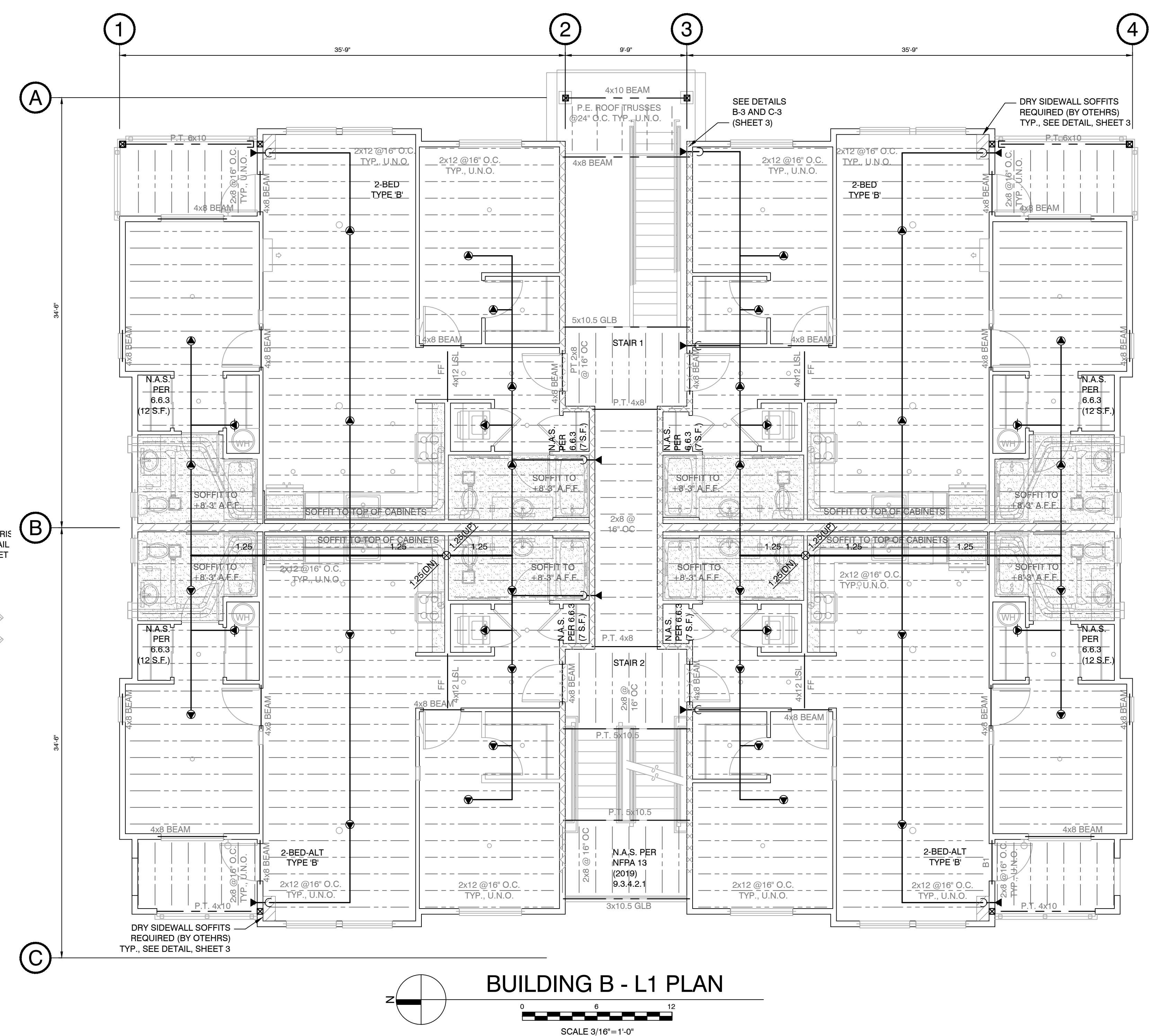
**City of Puyallup
Fire
REVIEWED
FOR
COMPLIANCE**

DDrake
10/08/2025
10:54:28 AM

 Approval of submitted plans is not an approval of omissions or oversight by this office or noncompliance with any applicable regulations of local government. The contractor is responsible for making sure that the building complies with all applicable building codes and regulations of the local government.

SFS SMITH FIRE SYSTEMS, INC.
 1106 54th AVE EAST
 TACOMA, WA 98454
 CONTR. REG. NO. SMITHFS1360T
 Bus: (253) 926-1980 FAX: (253) 926-2350

DESIGNER	PROJECT MGR	DATE	SHEET	JOB NO.
A. RIDEOUT	N. GRASSI	10/30/25	1 OF 3	TC25207



1. CPVC PIPE IS NOTED AS: SIZE PER PLAN
2. ALL CPVC ELEVATION TO BE 6'00, U.N.O.
3. ALL CPVC TO BE BRACED PER DETAIL ON SHEET 4
4. ALL CPVC BRANCHLINES AND DROPS TO BE 1", U.N.O.
5. ALL CPVC MAINS TO BE 1.25", U.N.O.
6. HANGER SPACING FOR CPVC PIPING IS PER MANUFACTURER'S LISTING AS FOLLOWS:
 - 1" CPVC 6'-0" O.C.
 - 1.1/4" CPVC 6'-0" O.C.
 - 1.1/2" CPVC 6'-0" O.C.
 - 2" CPVC 8'-0" O.C.
7. RELIABLE F1RES49 RESIDENTIAL SPRINKLERS SHALL NOT BE SPACED MORE THAN 6 FEET FROM A WALL IN ANY ONE DIRECTION OR 17 FEET BETWEEN SPRINKLERS IN COMPARTMENTS WITH (3) OR MORE HEADS.
8. RELIABLE F1RES49 RESIDENTIAL SPRINKLERS SHALL NOT BE SPACED MORE THAN 19 FEET FROM A WALL IN ANY ONE DIRECTION OR 18 FEET BETWEEN SPRINKLERS IN COMPARTMENTS WITH (2) HEADS.
9. 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) OR LESS HEADS.
10. RELIABLE F1RES49 RESIDENTIAL SPRINKLERS SHALL NOT BE SPACED LESS THAN 18" FROM PROTRUDING LIGHT FIXTURES.

KEY PLAN

DESIGNER	PROJECT MGR	DATE	SHEET	JOB NO.
A. RIDEOUT	N. GRASSI	10/30/25	2 OF 3	TC25207

