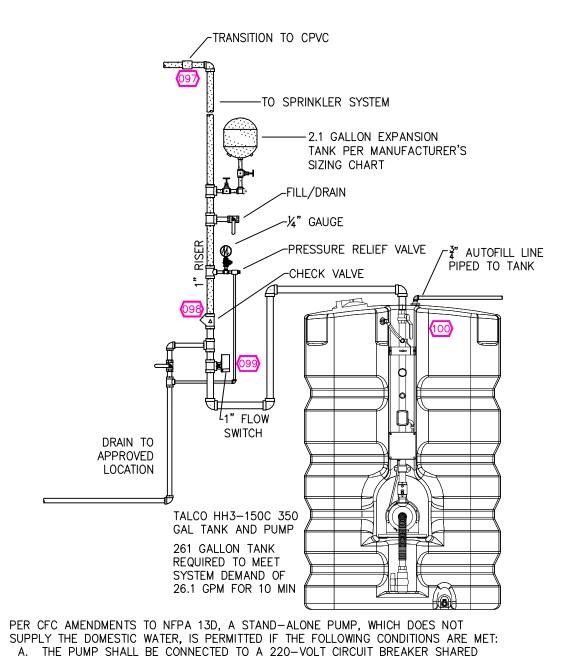
SUBMITTAL

NO SPRINKLERS REQUIRED IN:
BATHROOMS 55 SQ.FT. OR LESS IN AREA PER NFPA 13D SECTION 8.6.2
CLOSETS 24 SQ.FT. OR LESS IN AREA PER NFPA 13D SECTION 8.6.3

PROJECT SQUARE FOOTAGES LOWER FLOOR = 765 S.F. MAIN FLOOR = 3105 S.F. UPPER FLOOR = 573 S.F.

	Nominal Pipe Size (in.)									
	3⁄4	1	11⁄4	11/2	2	21/2	3	4	6	8
Steel Pipe except threaded lightwall	N/A	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0	15-(
Threaded lightwall steel pipe	N/A	12-0	12-0	15-0	15-0	15-0	15-0	N/A	N/A	N/A
Copper tube	8-0	8-0	10-0	10-0	12-0	12-0	12-0	15-0	15-0	15-0
CPVC	5-6	6-0	6-6	7-0	8-0	9-0	10-0	N/A	N/A	N//

PIPE VOLUN (CPVC)	IES:		
TOTAL PIPE FOOTAG 1"= 475'			
add 10% for droi discrepancies TOTAL VOLUME			٧S
NFPA 13 - Table A (Based on Actu			e
		e Diameter)	e
	ual Internal Pip	be Diameter)	CPVC
(Based on Actu	ual Internal Pip Pij Schedule 40	be Diameter)	
(Based on Actu Nominal Pipe Diameter (in.)	ual Internal Pip Pij Schedule 40 (gal)	be Diameter)	CPVC
(Based on Actu Nominal Pipe Diameter (in.) 1 $1/_4$ $1/_2$	2al Internal Pip Schedule 40 (gal) 0.045 0.078 0.106	e Diameter) be Schedule 10 0.049 0.085 0.115	CPVC 0.049
(Based on Actu Nominal Pipe Diameter (in.) 1 11⁄4	Lal Internal Pip Schedule 40 (gal) 0.045 0.078	e Diameter) be Schedule 10 0.049 0.085	CPVC 0.049 0.079



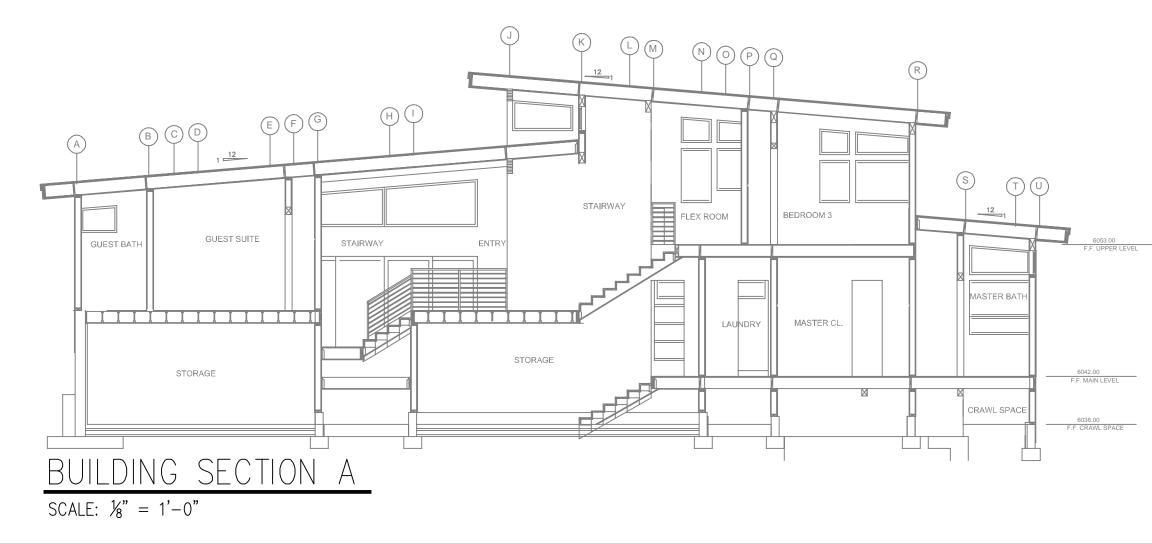
WITH A COMMON HOUSEHOLD APPLIANCE (E.G., RANGE, OVEN, DRYER)

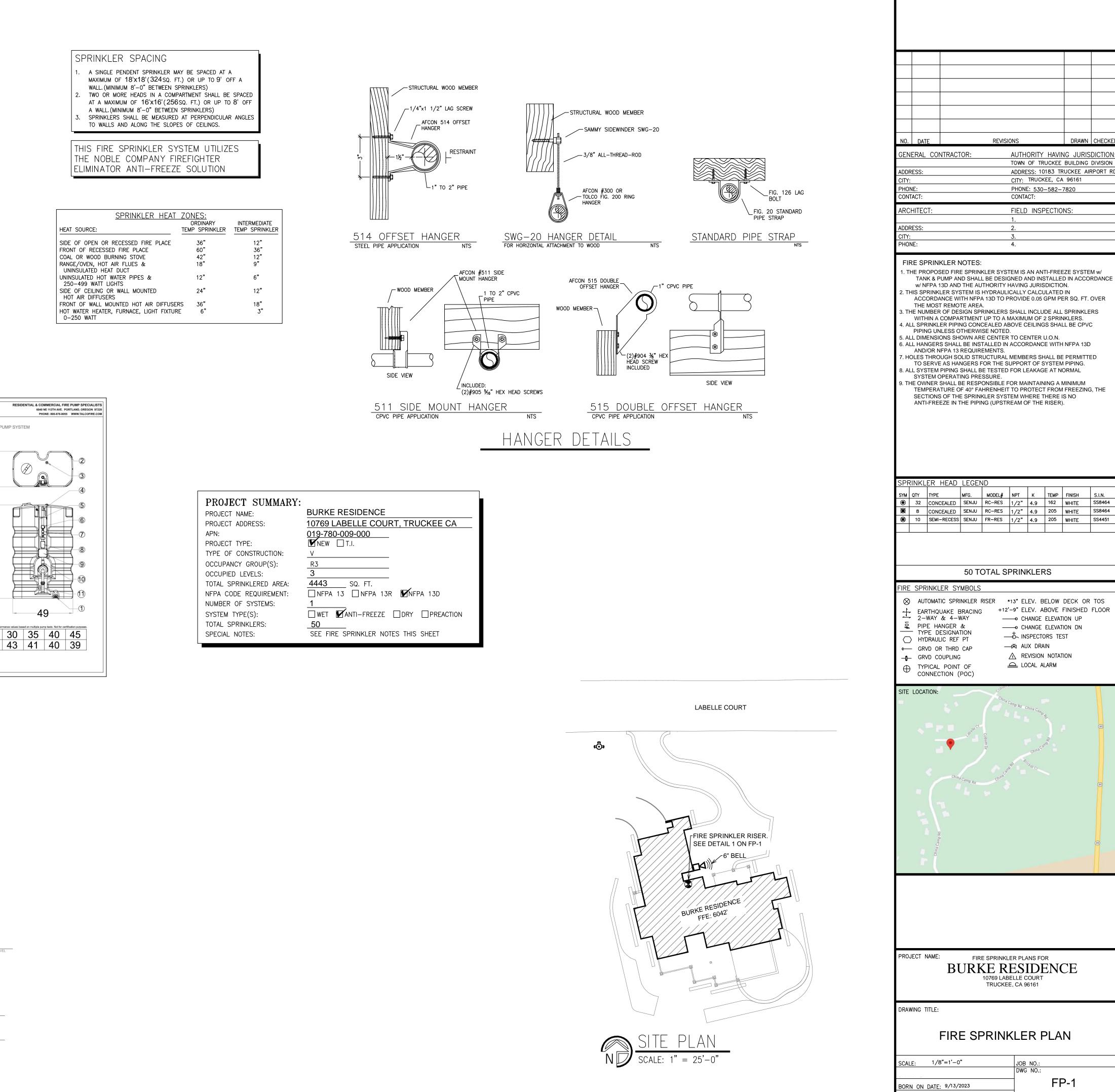
C. A SIGN SHALL BE PROVIDED STATING: "VALVE MUST BE OPENED MONTHLY FOR

B. THE PUMP SHALL BE A STAINLESS STEEL 240-VOLT PUMP

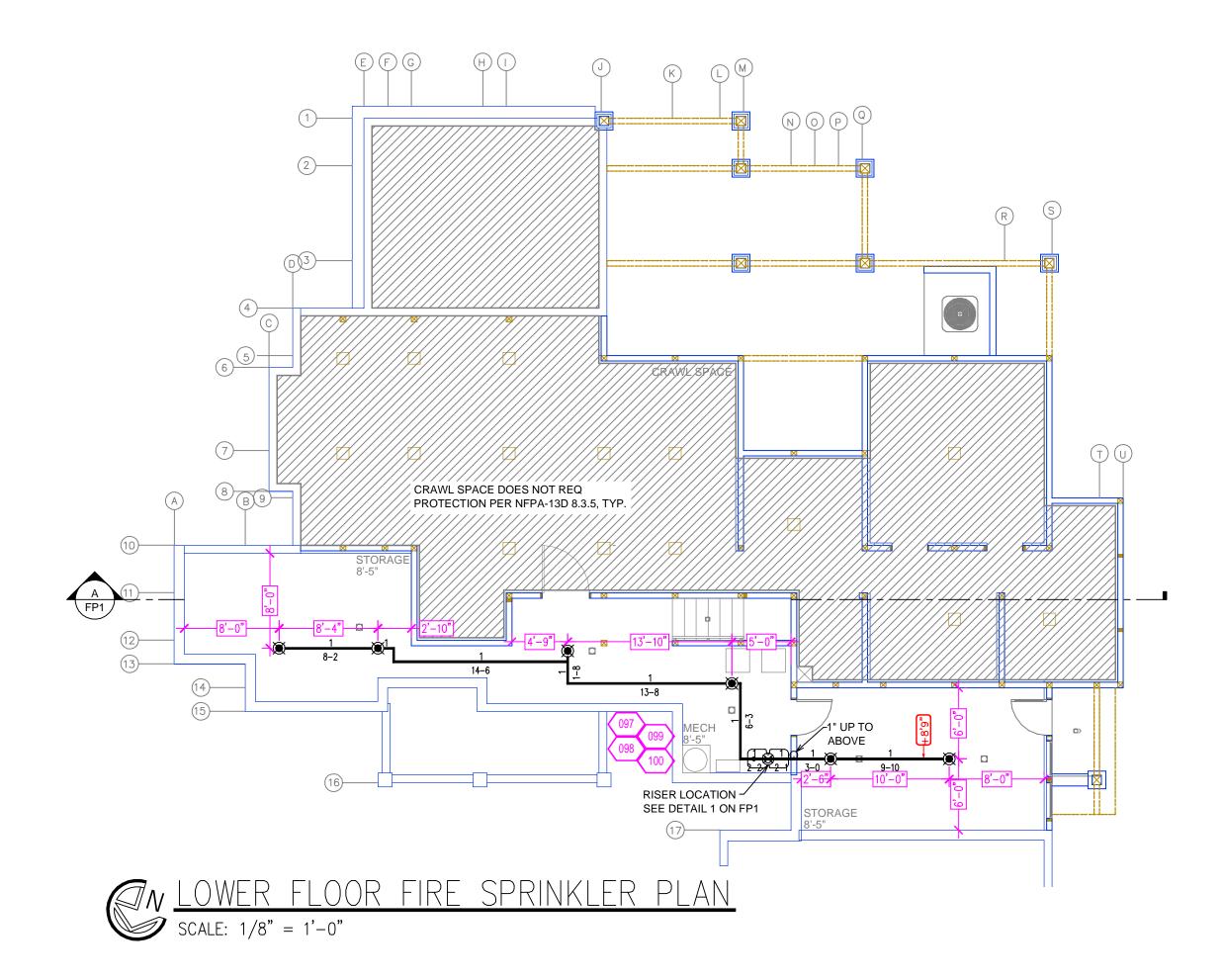
5 MINUTES"

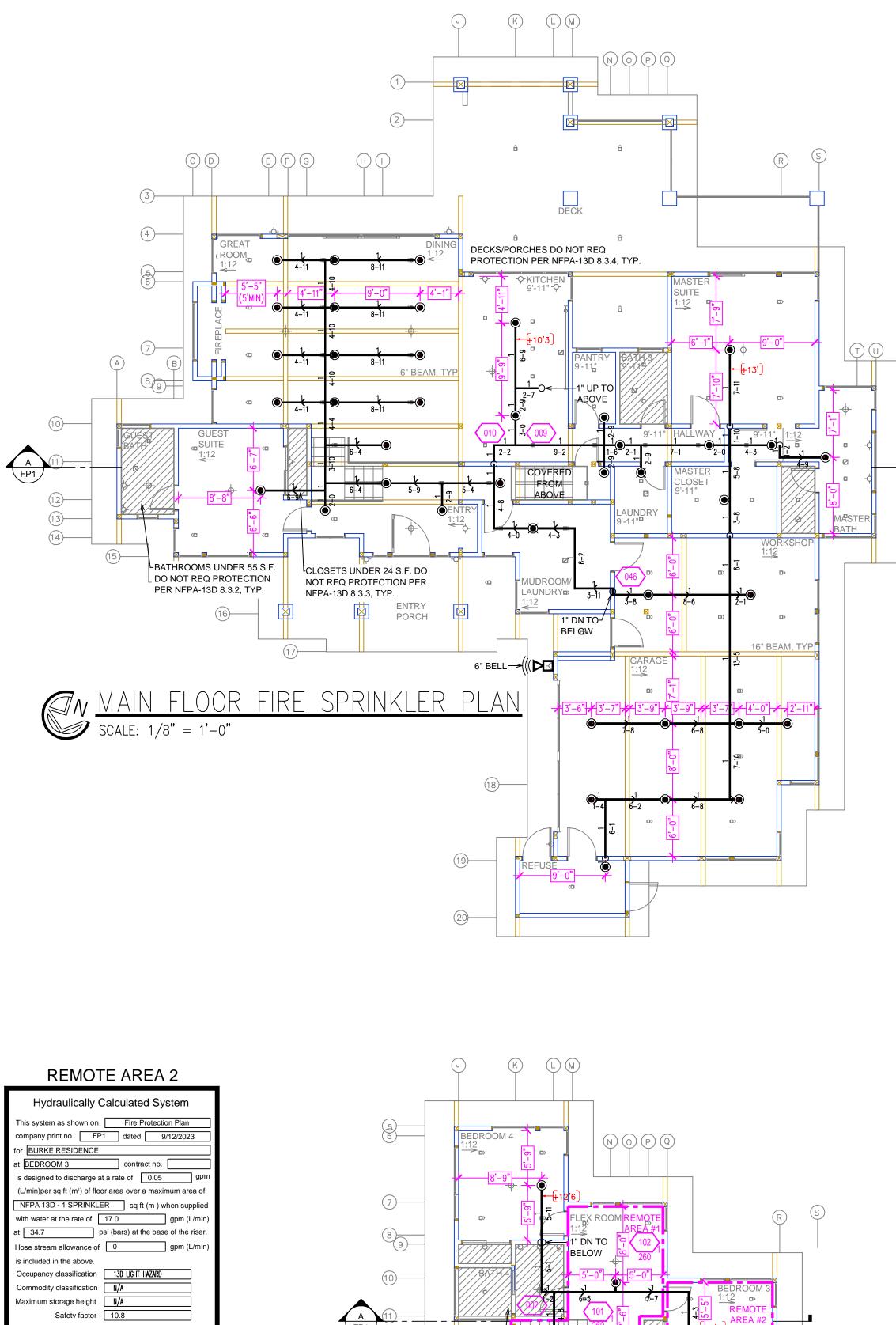
ATAI	_C⊄	Fire Syst	tems				
HOME H NFPA-13D Packa U.S. Patents #8,6	ged Resident	ial Fire Pur					
HH3- 40GPM @		C	20				
350 Gallon V ① Tank Dra ② Overflow ③ Auto-Fill	ain ½"(GH / Fitting 1'	IT) '(NPT)	29				
1.5HP Electr 240 Volt S 8.1 Amp (F	ingle-Pha	se					
 1 ¼" Discharge (NPT) Smart Riser Control System ④ Isolation Ball Valve ⑤ Test Line/System Drain ⑥ 30-50 Pressure Switch ⑦ Pressure Gauge ⑧ Flow Switch ⑨ Run-Time Controller 10 Discharge Check Valve (1) Suction Shut-off Valve 							
	rmano	ce	Perform				
GPM PSI	1 0 47	20 45	25				
[[-5]	41	43	44				





SHEET <u>1</u> OF <u>2</u>



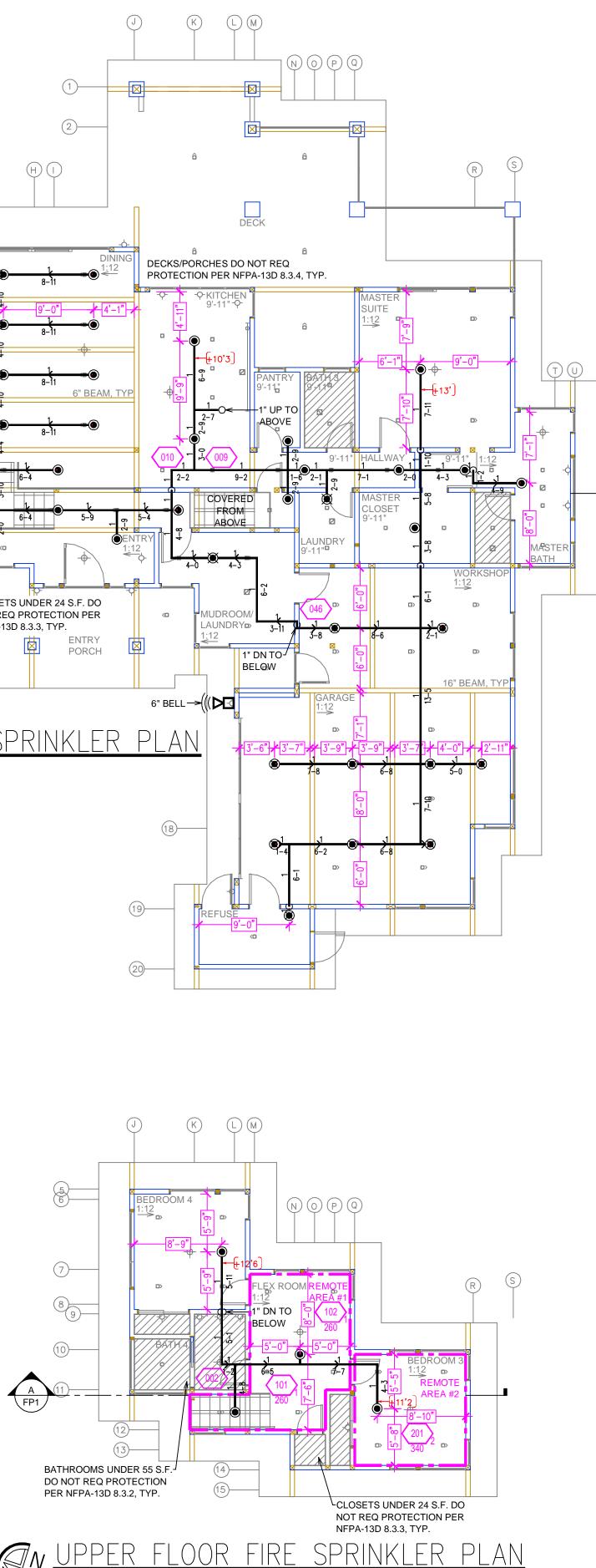


SCALE: 1/8" = 1'-0"

REMOTE AREA 1

Hydraulically Calculated System
This system as shown on Fire Protection Plan company print no. FP1 dated 9/12/2023
for BURKE RESIDENCE
at FLEX ROOM contract no.
is designed to discharge at a rate of 0.05 gpm
(L/min)per sq ft (m ²) of floor area over a maximum area of
NFPA 13D - 2 SPRINKLERS sq ft (m) when supplied
with water at the rate of 26.1 gpm (L/min)
at 37.5 psi (bars) at the base of the riser.
Hose stream allowance of 0 gpm (L/min)
is included in the above.
Occupancy classification 13D LIGHT HAZARD
Commodity classification N/A
Maximum storage height N/A
Safety factor 6.3

REMOTE AREA 2
Hydraulically Calculated System
This system as shown on Fire Protection Plan company print no. FP1 dated 9/12/2023 for BURKE RESIDENCE at BEDROOM 3 contract no.
is designed to discharge at a rate of 0.05 gpm (L/min)per sq ft (m ²) of floor area over a maximum area of NFPA 13D - 1 SPRINKLER sq ft (m) when supplied
with water at the rate of 17.0 gpm (L/min) at 34.7 psi (bars) at the base of the riser.
Hose stream allowance of 0 gpm (L/min) is included in the above.
Occupancy classification 13D LIGHT HAZARD Commodity classification N/A Maximum storage height N/A
Safety factor 10.8
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N0.	DAT	E			REVISI					N CHECK
	NERAL	COI	NTRACT	OR:		TOWN	OF TR	UCKEE	BUILDIN	ISDICTION G DIVISION AIRPORT R
CITY PHO	: INE:					CITY: PHONE	TRUCK E: 530		96161	
	TACT: CHITEC	T:				CONTA FIELD		PECTIC	NS:	
ADDI CITY	RESS:					1. 2. 3.				
PHO	INE:		<i></i>	NOTES:		4.				
4. A 5. A 6. A 7. H 8. A	HE NUU WITH LL SPF PIPIN LL DIM LL HAN AND OLES TO S LL SYS SYS ⁻ HE OW TEM SEC	MBEF IIN A RINKL IG UN ENSI JGER /OR N THRC ERVE STEM FER C NER PERA TION	R OF DES COMPA ER PIPII ILESS O ONS SHI S SHALL IFPA 13 OUGH SC E AS HAI PIPING OPERAT SHALL E TURE O S OF THI	RTMENT NG CONO THERWI OWN AR BE INS REQUIR DLID STR NGERS F SHALL B ING PRE BE RESP IF 40° FA E SPRINI	RINKLERS UP TO AN CEALED AN SE NOTED E CENTER TALLED IN EMENTS. UCTURAL FOR THE S E TESTED	MAXIML BOVE C C TO CE ACCOF MEMBE UPPOR FOR LI FOR LI FOR MA TO PR TEM WH	JM OF : EILING NTER RDANC ERS SH T OF S EAKAG INTAIN OTECT HERE T	2 SPRII GS SHA U.O.N. E WITH HALL BE GYSTEN E AT N ING A T FROM THERE	NKLERS. LL BE CP I NFPA 13 E PERMIT I PIPING. ORMAL MINIMUM 1 FREEZII IS NO	VC 3D TED
SYM		TYPE CON		LEGEN MFG. SENJU SENJU	ND MODEL <u>#</u> RC-RES RC-RES	NPT 1/2"	К 4.9	TEMP 162 205	FINISH WHITE WHITE	S.I.N. SS8464 SS8464
FIRE	10	50	-RECESS		FR-RES	1/2" 1/2" RS O	4.9 4.9	205	WHITE	SS4451
FIRE & ++ 10#	E SPR) AUT - EAF - 2- - TYF - TYF - GR - GR - GR		-recess) TOT/ ER SY TIC SPRI	AL SP MBOLS NKLER I BRACING VAY & TION PT CAP	RINKLE RISER +12 	1/2" RS C *13" EL '-9" EL → CF → CF	4.9 PN TH EV. B EV. A IANGE IANGE SPECTO IX DRA IVISION	205 HIS SI ELOW BOVE ELEVAT ELEVAT DRS TE IN NOTAT	WHITE HEET DECK C FINISHEI TION UP TION DN ST	SS4451
FIRE ⊗ +1 10# ∪ ↓ ♥ ⊕	E SPR) AUT - EAF - 2- - TYF - TYF - GR - GR - GR	50 TINKL TOMAT RTHQ WAY E HA PE D DRAUI VD OI VD OI VD OI VD OI VD OI VD OI VD OI VD OI VD OI VD OI	-RECESS	AL SP MBOLS NKLER I BRACING VAY & TION PT CAP	RINKLE RISER +12 - - - -	1/2" RS O *13" EL -9" EL -0" CF -5 IN: -7 AL A RE -7 LC Camp Rd	4.9 NTH EV. B EV. A HANGE HANGE SPECTO IX DRA EVISION DCAL A	ISS ELOW BOVE ELEVAT ELEVAT DRS TE IN NOTAT LARM	WHITE HEET DECK C FINISHEI TION UP TION DN ST	OR TOS
	E SPR) AUT – EAF – 2– – TYF – TYF – GR – GR – GR	50 CINKL FOMAT RTHQ VD OI VD CO PICAL PICAL TION:	-RECESS	AL SP MBOLS NKLER BRACING VAY & TION PT CAP OF POC)	RINKLE RISER +12 - - - -	1/2" RS O *13" EL -9" EL -0 CF -3 IN -79" EL -79" EL -10 Comp Rd Comp Rd	4.9 N TH EV. B EV. A IANGE SPECTO X DRA VISION OCAL A MINE CASE VISION OCAL A MINE CASE VISION OCAL A	IS SI ELOW BOVE ELEVAT ELEVAT DRS TE IN NOTAT LARM	WHITE HEET DECK C FINISHEI TION UP TION TION	BR TOS D FLOOR
	E SPR AUT EAF 2 - TYF HYI GRV GRV TYF COI LOCA	50 CINKL FOMAT RTHQ VD OI VD CO PICAL PICAL TION:	-RECESS	AL SP MBOLS NKLER BRACING & TION PT CAP OF POC) CAP OF POC)	RINKLE RISER +12 	1/2" RS O *13" EL '-9" EL -0 Cl -0 Cl	4.9 N TH EV. B EV. A IANGE SPECTO X DRA VISION OCAL A MINE CASE VISION OCAL A MINE CASE VISION OCAL A	IS SI ELOW BOVE ELEVAT ELEVAT DRS TE IN NOTAT LARM	WHITE HEET DECK C FINISHEI TION UP TION TION	BR TOS D FLOOR