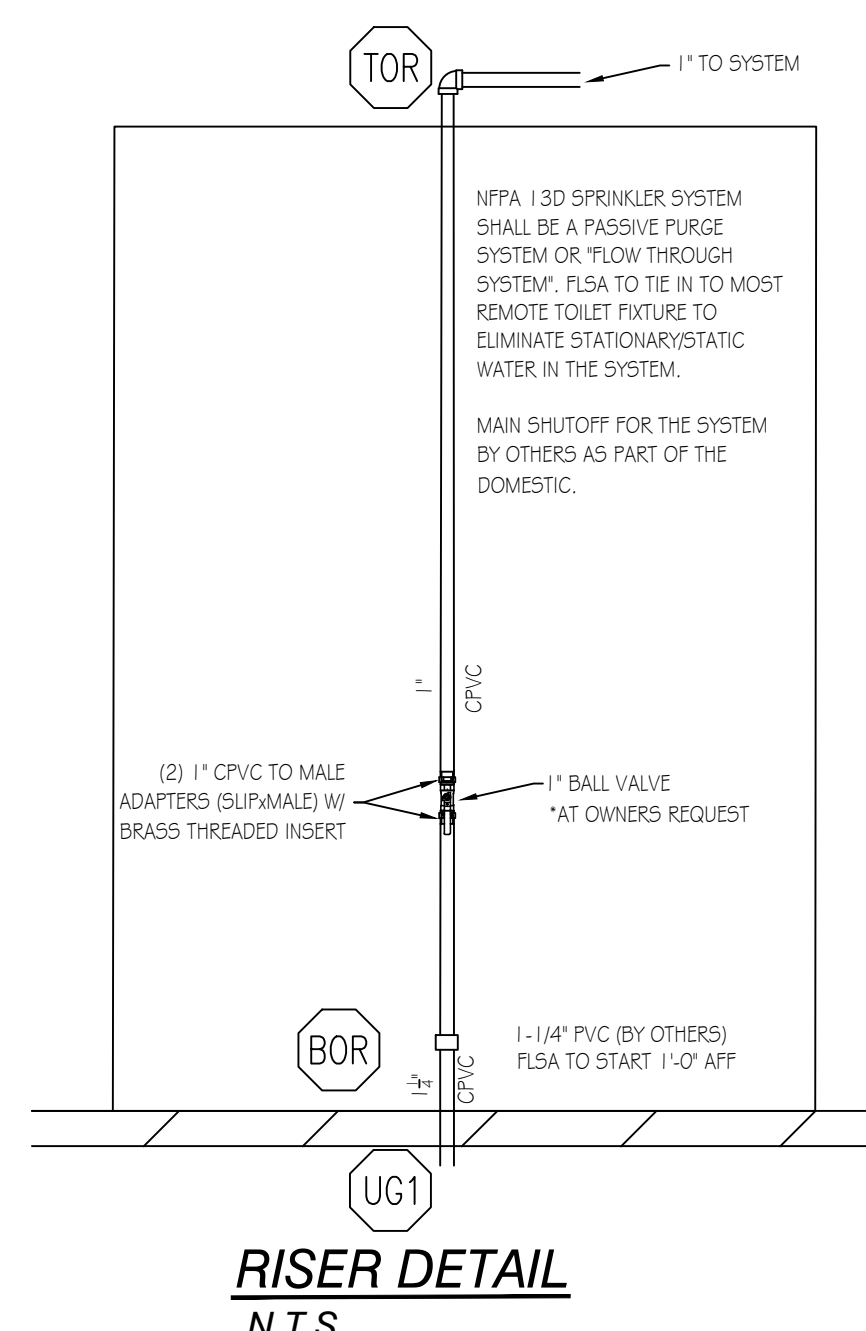
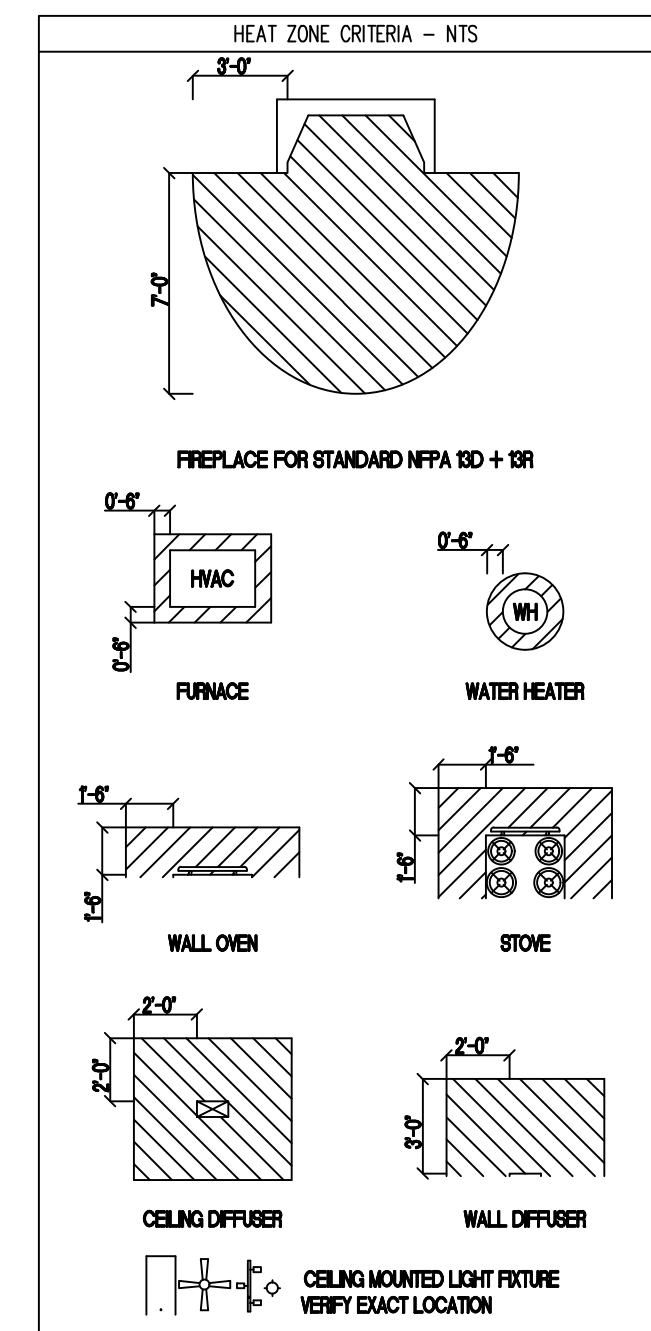
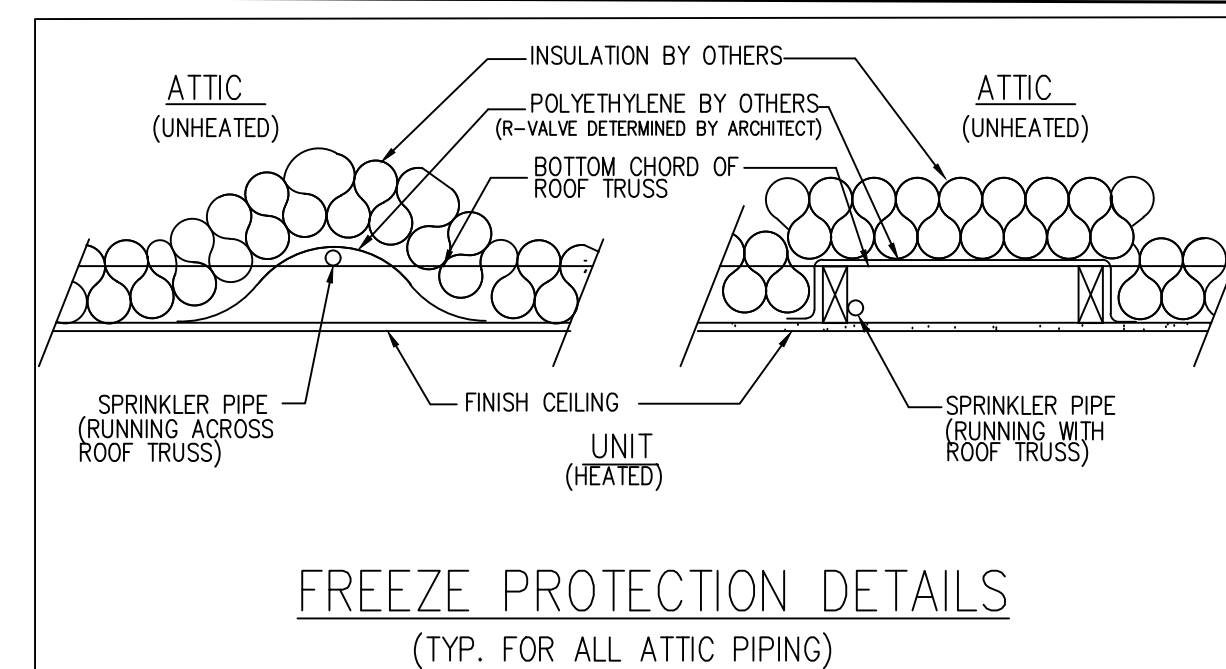
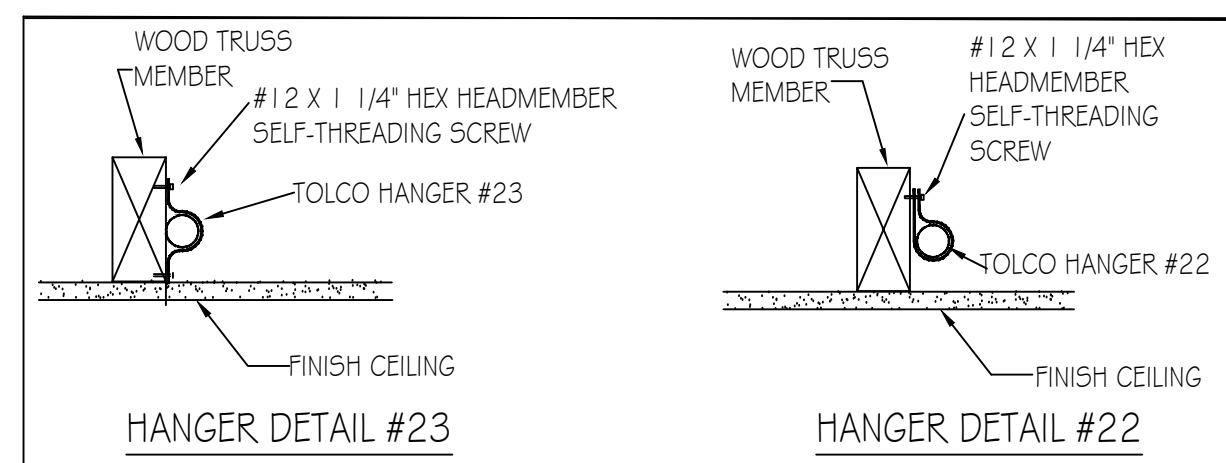


GENERAL NOTES

- THIS WET PIPE FIRE SPRINKLER SYSTEM IS DESIGNED AS LIGHT HAZARD/RESIDENTIAL OCCUPANCY WITH A DESIGN DENSITY OF .05 GPM/2 SPRINKLERS MAX IN ACCORDANCE WITH 13D (2013 EDITION) AND NFPA 13-11.3.1.1.
- HYDRAULIC CALCULATIONS ARE BASED UPON FLOW DATA PERFORMED BY FLSA ON 04/21/2021 AT 4:00PM. HYDRAULIC CALCULATIONS TO BE BASED ON NFPA 13D (2013 EDITION).
- FIRE SPRINKLER OVERHEAD PIPE AND FITTINGS ARE TO BE CPVC PIPE LISTED FOR FIRE PROTECTION USED UNLESS NOTED OTHERWISE.
- ALL HANGERS TO BE U.L. LISTED FOR FIRE PROTECTION SERVICES. HANGERS SHALL BE INSTALLED IN ACCORDANCE WITH THEIR LISTING. SPACING AND LOCATION TO COMPLY WITH NFPA 13.
- ALL EQUIPMENT TO BE U.L. LISTED FOR FIRE PROTECTION SERVICES AND LISTED IN ACCORDANCE WITH ITS LISTING.
- IN AREAS WHERE WET-TYPE SPRINKLER SYSTEM PIPING HAS BEEN INSTALLED, IT IS THE OWNERS' RESPONSIBILITY TO PROVIDE ADEQUATE HEAT. (AMBIENT TEMPERATURE OF A MINIMUM 40°F)
- ALL DRAINAGE TO COMPLY WITH NFPA 13D AND CONTRACT DOCUMENTS.
- [X'-X'] DENOTES CENTERLINE OF PIPE AFF.
- ALL SPRINKLER HEADS SHALL BE LISTED RESIDENTIAL SPRINKLER HEADS IN ACCORDANCE WITH 7.5.1 OF NFPA 13D.
- FLSA POINT OF CONNECTION IS AT 1'-0" AFF.
- UNDERGROUND PIPING TO BE FLUSHED PRIOR TO SPRINKLER PIPE CONNECTION. FLUSHING IS TO BE COMPLETED BY OTHERS.
- PIPING TO SPRINKLER HEADS 1" CPVC UNLESS OTHERWISE NOTED.

NOTE:
SITE HYDRAULIC REFERENCE PLAN HAS BEEN SHOWN FOR REFERENCE ONLY. ALL UNDERGROUND WORK SHALL BE INSTALLED BY UTILITY CONTRACTOR AND INSTALLED IN ACCORDANCE WITH THE CIVIL SITE UTILITY PLAN. FLSA SHALL BEGIN WORK AT 1'-0" ABOVE FINISHED FLOOR.



Sprinkler Design Data

Project Name: OAKHAVEN LOT 25	System: WET
Project Street Address: 124 BUCKHAVEN DR.	Sys. Sq. Ft.: VARIES
Suite: -	Floor #: 2
Designed By: HALEY WEYANT	Phone: (919) 872-3250
Occupancy: RESIDENTIAL	Hazard: LIGHT/RESIDENTIAL
Total Bldg. Hgt.: -	

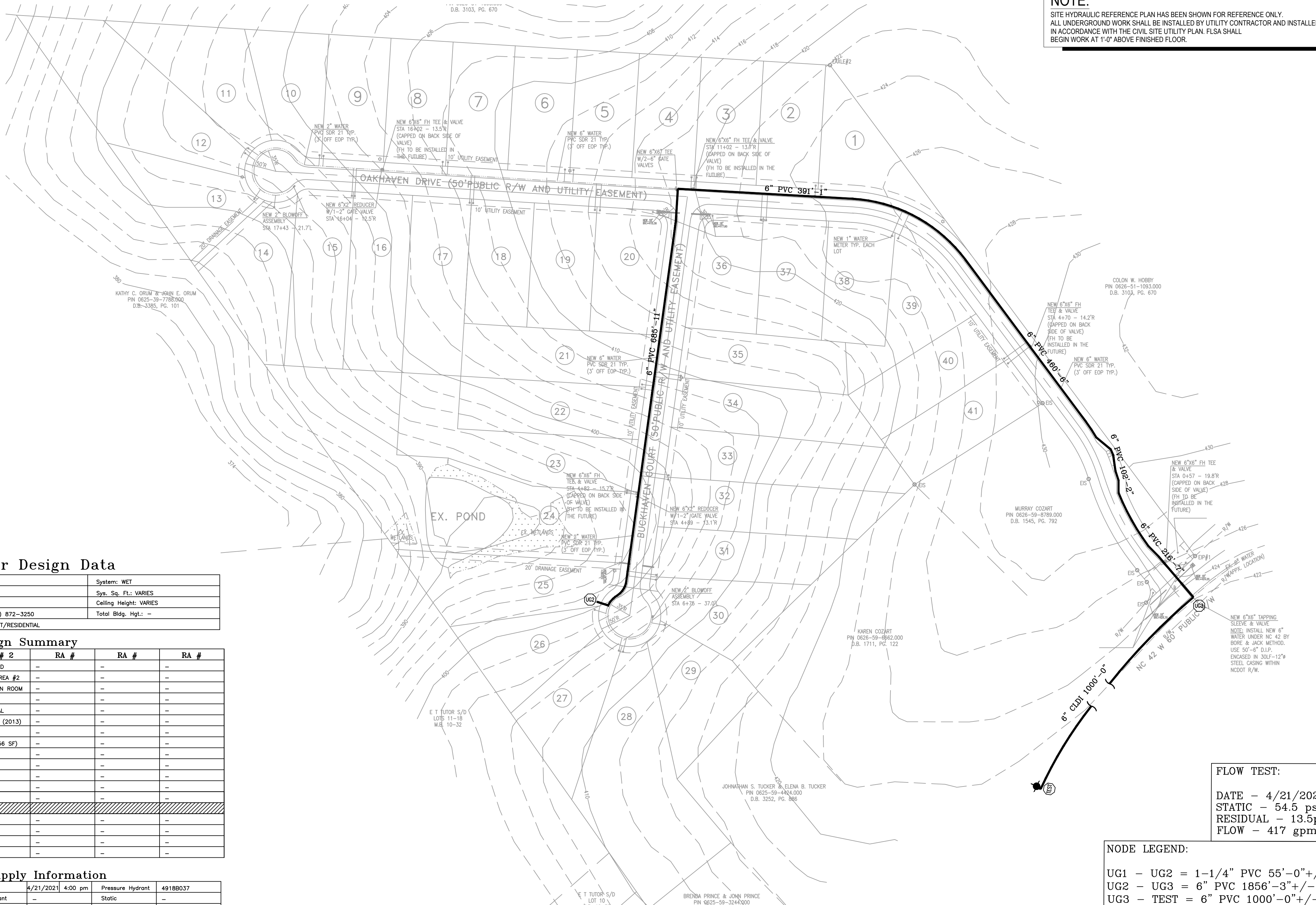
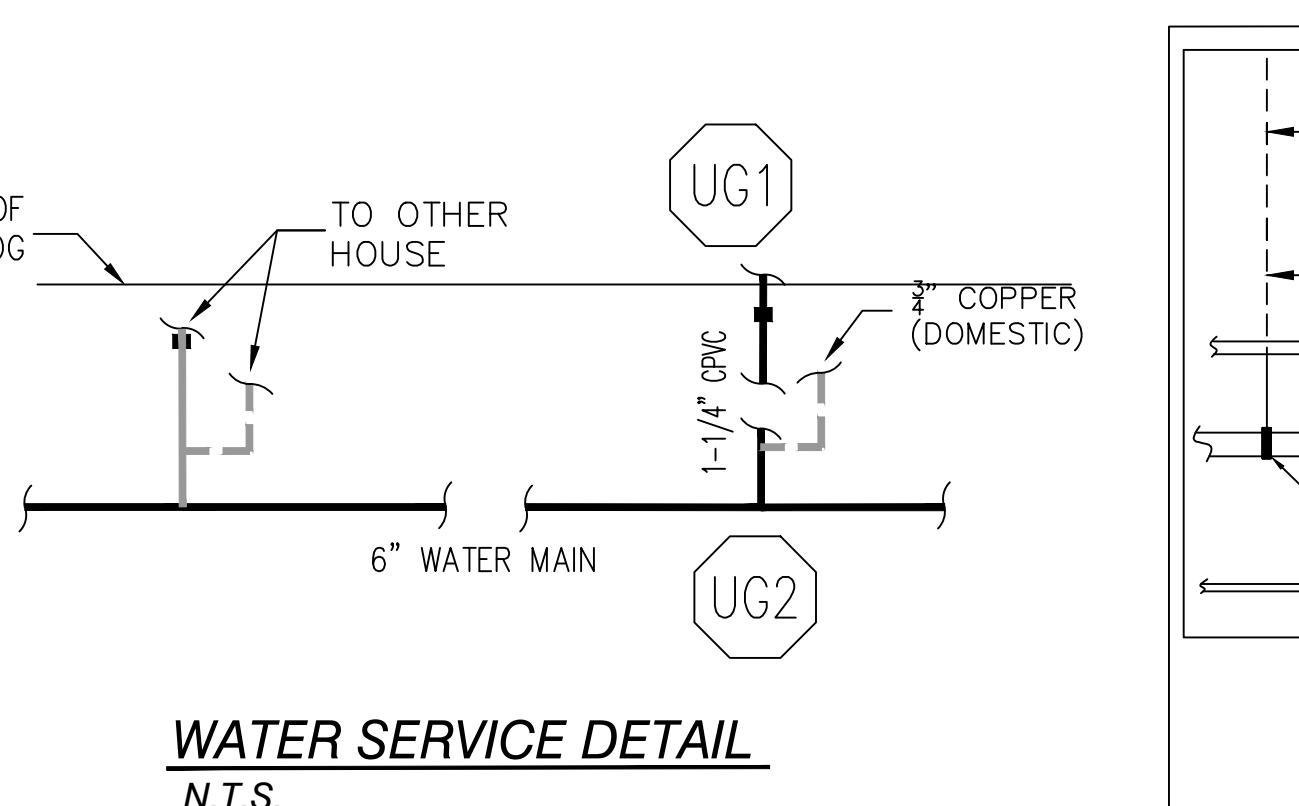
Design Summary

Design Method	RA # 1	RA # 2	RA #	RA #	RA #
Design Area #	1	2	-	-	-
Location	REMOTE AREA #1	REMOTE AREA #2	-	-	-
Type of System	WET	WET	-	-	-
Hazard Class	RESIDENTIAL	RESIDENTIAL	-	-	-
Criteria Form	NFPA 13D (2013)	NFPA 13D (2013)	-	-	-
Design Area	1 HEAD	2 HEADS	-	-	-
Sprinkler Spacing	20X20 (400 SF)	16X16 (256 SF)	-	-	-
Density	.05	.05	-	-	-
K-factor	4.9	4.9	-	-	-
Domestic Flow	3 GPM	2 GPM	-	-	-
# Design Sprinklers	1	2	-	-	-
Special Application Spk.	-	-	-	-	-
Requirement @ TEST	-	-	-	-	-
G.P.M. Req'd	23.03 gpm	29.40	-	-	-
P.S.I. Req'd	29.34 psi	29.08	-	-	-
Safety Factor @ TEST	24.97	25.12	-	-	-
Volume of Dry System	-	-	-	-	-

Water Supply Information

Tested by	-	Date/Time	4/21/2021 4:00 pm	Pressure Hydrant	49180037
Hydrant Elevation	-	Flow Hydrant	-	Static	-
Static (PSI)	54.5	Residual (PSI)	13.5	Flow (GPM)	417

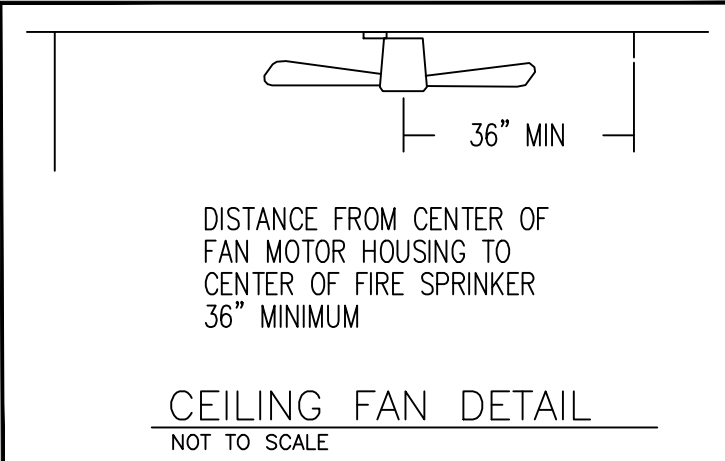
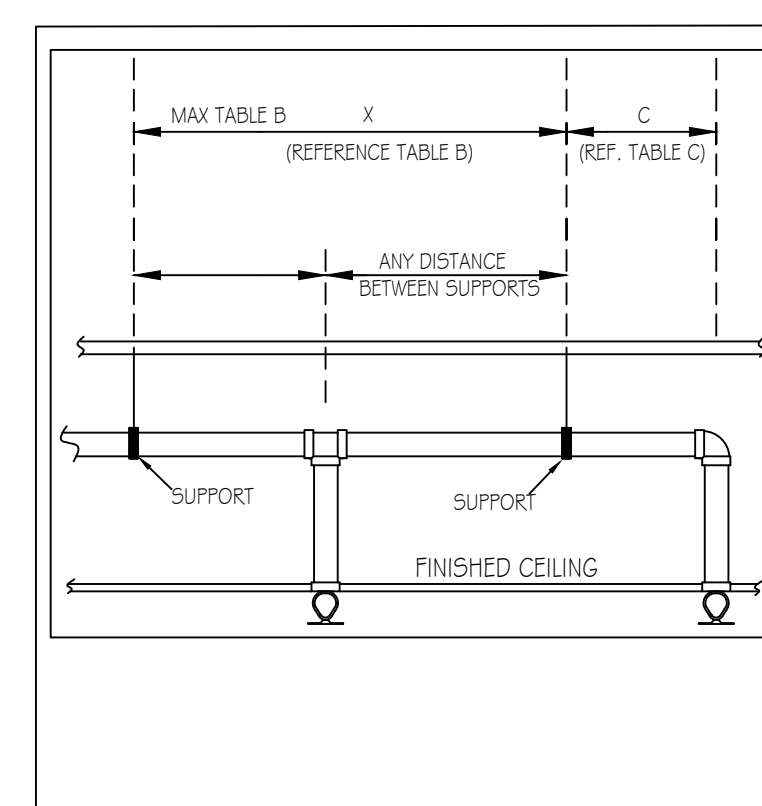
Copy of Water Test Data Included with Calculation is required



FLOW TEST:
DATE - 4/21/2021
STATIC - 54.5 psi
RESIDUAL - 13.5 psi
FLOW - 417 gpm

NODE LEGEND:
UG1 - UG2 = 1-1/4" PVC 55'-0"+/-
UG2 - UG3 = 6" PVC 1856'-3"+/-
UG3 - TEST = 6" PVC 1000'-0"+/-

SITE PLAN - FOR HYDRAULIC REFERENCE ONLY



SCOPE OF WORK

- FLSA TO BEGIN WORK AT 1'-0" AFF
 - FLSA TO INSTALL AUTOMATIC SPRINKLER SYSTEM UNDER NFPA 13D (2013) TO PROTECT NEW RESIDENTIAL HOME
 - FLSA TO TIE THE NEW SPRINKLER SYSTEM INTO PLUMBING FOR A PASSIVE PURGE SYSTEM.
 - ALL PIPING TO BE CPVC.
 - ALL UNDERGROUND AND RUN-IN BY OTHERS
- THIS FIRE SPRINKLER PLANNING AND DESIGN DRAWING HAS BEEN PREPARED BY FIRE & LIFE SAFETY AMERICA, INC. AS A LICENSED FIRE SPRINKLER CONTRACTOR UNDER ARTICLE 2 OF CHAPTER 87 OR THE GENERAL STATUTES FOR THE STATE OF NORTH CAROLINA.
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SYSTEM DESIGN CRITERIA		APPROVING AGENCIES		GENERAL NOTES		LEGEND		SPRINKLER SUMMARY		REVISIONS		JOB #		DRAWING #											
TYPE SYSTEM: ■ WET □ DRY □ DELUGE	NFPA STANDARD: □ #13 □ #13D □ #13R □ #14 □ #20 □ #22	APPROVING AUTHORITY: HARNETT COUNTY		1. Freeze Protection: The owner is responsible for maintaining a min. of 40°F temperature for all wet systems and portions of other systems containing water.	Symbol	Description	SYM	TYPE	FINISH	TEMP	ORIE.	"K"	NPT	MANUF.	SIN#	ESCUTCHEON	QTY	DATE	DESCRIPTION	BY	RICHMOND, VA	CHESAPEAKE, VA	ROANOKE, VA	SPRINGFIELD, VA	ORLANDO, FL
OCCUPANCY: RESIDENTIAL	HAZARD: LIGHT	UNDERWRITER: N/A		2. M.I.C. Protection: The owner is responsible for all detection testing/prevention.	Hydraulic Reference Point	Elev. Below Top of Steel	●	RES. PENDENT	WHITE	200°	1/2"	4.9	1/2"	VIKING	VK494	CONCEALED	0	12/20/2021	SUBMITTAL TO AHJ	ICW	HOUSTON, TX	SAN ANTONIO, TX	DALLAS, TX	AUSTIN, FL	
MAXIMUM SPACING: VARIES	LOCAL HOSE THREADS: N.S.T.	CITY & STATE: FAYETTEVILLE, NC 28305		3. Design is subject to minor deviations arising from field conditions and/or trade coordination. Such deviations shall not affect code compliance or scope of work and shall not require resubmission except in "as-built" if required by contract documents.	12'-0" AFF	Elev. Above Finished Floor	○										0				CHARLOTTE, NC	RALEIGH, NC	BALTIMORE, MD	ATLANTA, GA	
SPRINKLERS ARE REQUIRED TO BE LOCATED IN THE CENTER OF THE CEILING TILES.	SLEEVES REQUIRED: NO	PHONE NO.: (910) 483-2229		4. Underground provide to ensure lead-in is plumbed, 2-holed, rodded, flushed, thrust blocked and a fully executed underground test certificate required per NFPA to be provided to FLSA prior to connection. FLSA is not responsible for damage to its system or components due to debris entering the system from underground water lines provided by others.	+105 12'-0"	Elev. Top of Steel	○										0				1721 Round Rock Drive Raleigh, NC 27615 PHONE (919) 872-3250 FAX (919) 877-8776				
PIPE TYPES AND FITTING TYPES		GENERAL CONTRACTOR: WATERMARK HOMES		LEGEND		SPRINKLER SUMMARY		TOTAL SPRINKLERS THIS PROJECT		TOTAL SPRINKLERS THIS DRAWING		SCALE: AS NOTED		DRAWING #											
LINE PIPING: CPVC	LINE FITTINGS: CPVC	ADDRESS: 1303 FT BRAGG ROAD SUITE 201		Denotes Hanger Location	21	0			AS NOTED																
MAIN PIPING: CPVC	MAIN FITTINGS: CPVC	CITY & STATE: FAYETTEVILLE, NC 28305		Denotes Sismic Support																					
		PHONE NO.: (910) 483-2229		Room name or use																					
		FAX NO.:		Sleeve Location																					
				FLSA Start Point																					

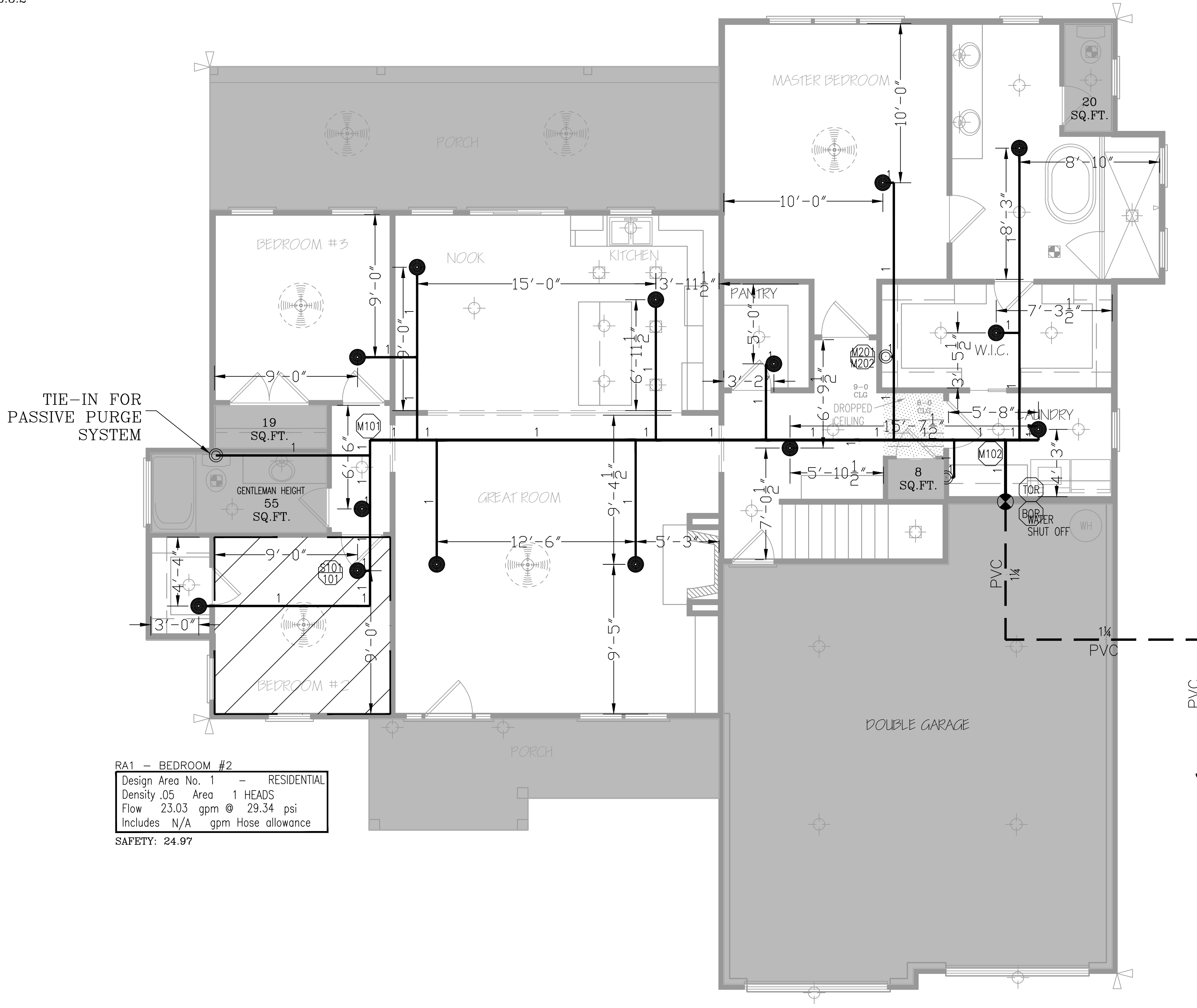


NOTES:

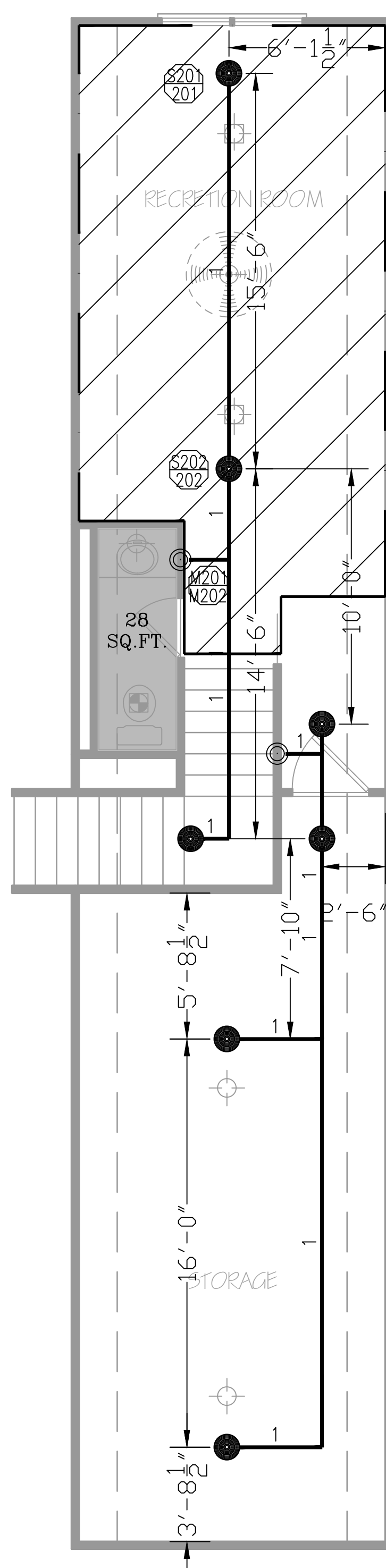
- PORCHES AND GARAGES ARE OMITTED PER NFPA 13D (2013) 8.3.4
- CLOSETS 24 SQ. FT. OR LESS IN AREA ARE UNSPRINKLERED PER NFPA 13D (2013) 8.3.3; WALLS AND CEILING TO BE SURFACED WITH NONCOMBUSTIBLE OR LIMITED COMBUSTIBLE MATERIAL AS DEFINED BY NFPA 220
- BATHROOMS 55 SQ. FT. OR LESS IN AREA ARE UNSPRINKLERED PER NFPA 13D (2013) 8.3.2

SPRINKLER LEGEND

- NO HEADS REQUIRED
- REMOTE AREA



RA2 - RECREATION ROOM
 Design Area No. 2 - RESIDENTIAL
 Density .05 Area 2 HEADS
 Flow 29.40 gpm @ 29.08 psi
 Includes N/A gpm Hose allowance
 SAFETY: 25.12



LEVEL 2 - SPRINKLER PLAN
 1/4" = 1' - 0"

LEVEL 1 - SPRINKLER PLAN
 1/4" = 1' - 0"

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SYSTEM DESIGN CRITERIA			APPROVING AGENCIES			GENERAL NOTES			LEGEND			SPRINKLER SUMMARY			REVISIONS																																																																																																													
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