

PROJECT SUMMARY: WRIGHT RESIDENCE PROJECT NAME: PROJECT ADDRESS: 3539 KNOB POINT TRAIL, CARSON CITY, N\ 1419-09-001-070 APN: NEW T.I. PROJECT TYPE: TYPE OF CONSTRUCTION: OCCUPANCY GROUP(S): OCCUPIED LEVELS: TOTAL SPRINKLERED AREA: ___ SQ. FT. □NFPA 13 □NFPA 13R **☑**NFPA 13D NFPA CODE REQUIREMENT: NUMBER OF SYSTEMS: ☐ WET MANTI-FREEZE ☐ DRY ☐ PREACTION SYSTEM TYPE(S): TOTAL SPRINKLERS:

SUBMITTAL

SPECIAL NOTES:

NO SPRINKLERS REQUIRED IN:

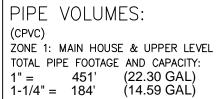
PROJECT SQUARE FOOTAGES MAIN FLOOR = 5931 S.F.

	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	15-0
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/A

SPRINKLER SPACING

- A SINGLE PENDENT SPRINKLER MAY BE SPACED AT A MAXIMUM OF 18'x18'(324SQ. FT.) OR UP TO 9' OFF A WALL. (MINIMUM 8'-0" BETWEEN SPRINKLERS) TWO OR MORE HEADS IN A COMPARTMENT SHALL BE SPACED
- AT A MAXIMUM OF 16'x16'(256 SQ. FT.) OR UP TO 8' OFF A WALL. (MINIMUM 8'-0" BETWEEN SPRINKLERS) SPRINKLERS SHALL BE MEASURED AT PERPENDICULAR ANGLES TO WALLS AND ALONG THE SLOPES OF CEILINGS.

THIS FIRE SPRINKLER SYSTEM UTILIZES THE NOBLE COMPANY FIREFIGHTER ELIMINATOR ANTI-FREEZE SOLUTION



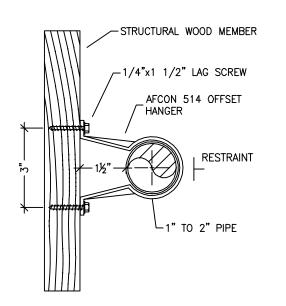
SEE FIRE SPRINKLER NOTES THIS SHEET

TOTAL VOLUME: ± 36.89 GALLONS

PIPE VOLUMES: (CPVC)
ZONE 2: MAIN LEVEL GARAGE WING
TOTAL PIPE FOOTAGE AND CAPACITY:
1" = 202' (9.99 GAL)

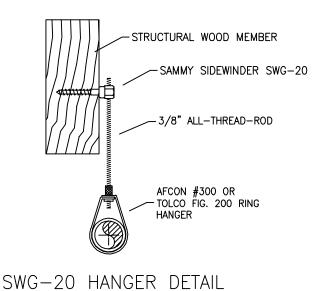
TOTAL VOLUME: ± 9.99 GALLONS

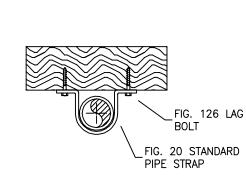
NFPA 13 - Table A.7.2.3 Capacity of 1 ft of pipe (Based on Actual Internal Pipe Diameter)						
Nominal Pipe Diameter (in.)	Pip Schedule 40 (gal)		CPVC			
1 11/4 11/2 2	0.045 0.078 0.106 0.174	0.049 0.085 0.115 0.190	0.049 0.079 0.104			
21/2	0.248	0.283				



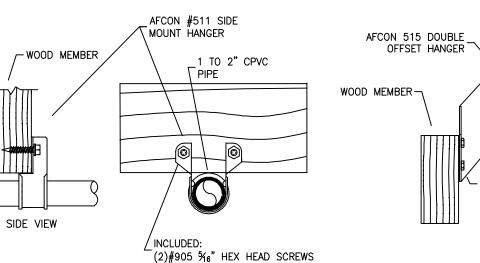
514 OFFSET HANGER

STEEL PIPE APPLICATION

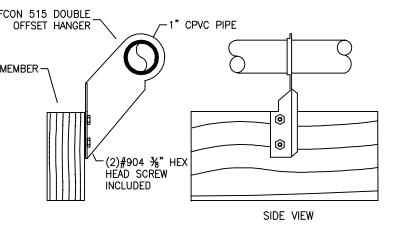




STANDARD PIPE STRAP

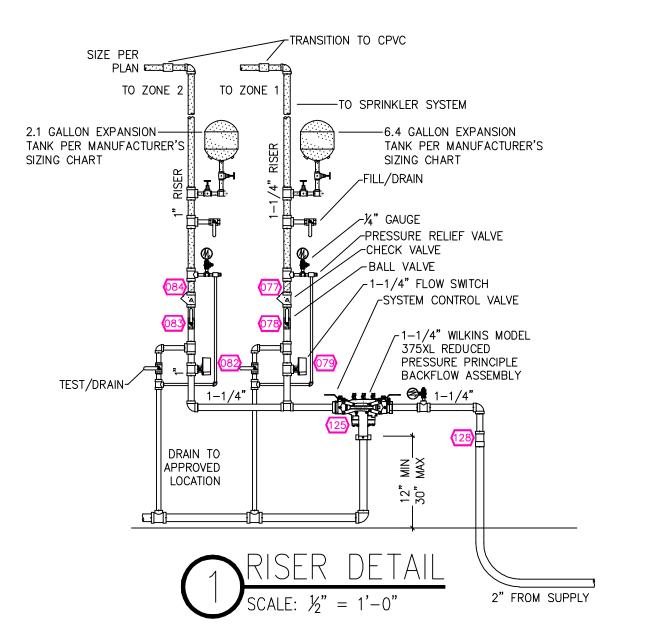


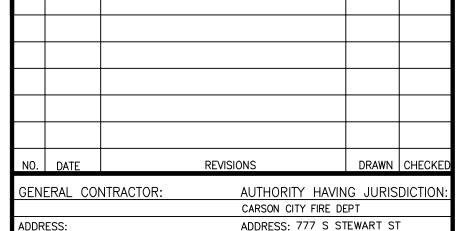
511 SIDE MOUNT HANGER CPVC PIPE APPLICATION



515 DOUBLE OFFSET HANGER

HANGER DETAILS





GENERAL CONTRACTOR:	AUTHORITY HAVING JURISDICTION:
	CARSON CITY FIRE DEPT
ADDRESS:	ADDRESS: 777 S STEWART ST
CITY:	CITY: CARSON CITY, NV 89701
PHONE:	PHONE: 775-887-2210
CONTACT:	CONTACT:
ARCHITECT:	FIELD INSPECTIONS:
	1.
ADDRESS:	2.
CITY:	3.
DUONE	4

FIRE SPRINKLER NOTES:

- . THE PROPOSED FIRE SPRINKLER SYSTEM IS AN ANTI-FREEZE SYSTEM AND SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 13D THIS SPRINKLER SYSTEM IS HYDRAULICALLY CALCULATED IN ACCORDANCE WITH NFPA 13D TO PROVIDE 0.05 GPM PER SQ. FT. OVER
- THE MOST REMOTE AREA. THE NUMBER OF DESIGN SPRINKLERS SHALL INCLUDE ALL SPRINKLERS
- WITHIN A COMPARTMENT UP TO A MAXIMUM OF 2 SPRINKLERS. ALL SPRINKLER PIPING CONCEALED ABOVE CEILINGS SHALL BE CPVC PIPING UNLESS OTHERWISE NOTED.
- 5. ALL DIMENSIONS SHOWN ARE CENTER TO CENTER U.O.N.
 6. ALL HANGERS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13D
- AND/OR NFPA 13 REQUIREMENTS. . HOLES THROUGH SOLID STRUCTURAL MEMBERS SHALL BE PERMITTED
- TO SERVE AS HANGERS FOR THE SUPPORT OF SYSTEM PIPING. . ALL SYSTEM PIPING SHALL BE TESTED FOR LEAKAGE AT NORMAL SYSTEM OPERATING PRESSURE.
- THE OWNER SHALL BE RESPONSIBLE FOR MAINTAINING A MINIMUM TEMPERATURE OF 40° FAHRENHEIT TO PROTECT FROM FREEZING, THE SECTIONS OF THE SPRINKLER SYSTEM WHERE THERE IS NO

ANTI-FREEZE IN THE PIPING (UPSTREAM OF THE RISER).

SPRINKLER HEAD LEGEND									
SYM	QTY	TYPE	MFG.	MODEL#	NPT	к	TEMP	FINISH	S.I.N.
•	70	CONCEALED	SENJU	RC-RES	1/2"	4.9	162	WHITE	SS8464
	1	CONCEALED	SENJU	RC-RES	1/2"	4.9	205	WHITE	SS8464
®	10	SEMI-RECESS	SENJU	FR-RES	1/2"	4.9	205	WHITE	SS4451

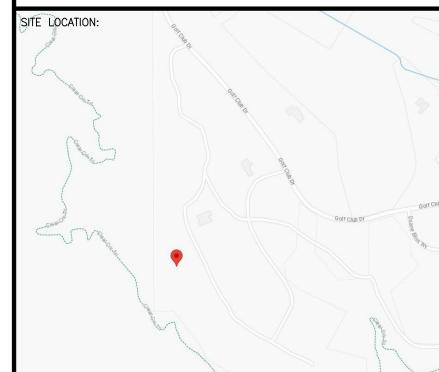
81 TOTAL SPRINKLERS

FIRE SPRINKLER SYMBOLS

- +12'-9" ELEV. ABOVE FINISHED FLOOR EARTHQUAKE BRACING 2-WAY & 4-WAY ──── CHANGE ELEVATION UP
- PIPE HANGER &
 TYPE DESIGNATION — → CHANGE ELEVATION DN
- —

 ♣ INSPECTORS TEST HYDRAULIC REF PT ——Ø AUX DRAIN ← GRVD OR THRD CAP
- ⚠ REVISION NOTATION GRVD COUPLING
- TYPICAL POINT OF CONNECTION (POC)





PROJECT NAME:	FIRE SPRINKLER PLANS FOR

WRIGHT RESIDENCE 3539 KNOB POINT TRAIL

CARSON CITY, NV 89705

DRAWING TITLE:

FIRE SPRINKLER PLAN

1/8"=1'-0" FP-1 3ORN ON DATE: 9/18/2023 SHEET 1 OF 2

