

HEAT SOURCE:	SPRINKLER HEAT ZONES:	
	ORDINARY TEMP SPRINKLER	INTERMEDIATE TEMP SPRINKLER
SIDE OF OPEN OR RECESSED FIRE PLACE	36"	12"
FRONT OF RECESSED FIRE PLACE	60"	36"
COAL OR WOOD BURNING STOVE	42"	12"
RANGE/OVEN, HOT AIR FLUES & UNINSULATED HEAT DUCT	18"	9"
UNINSULATED HOT WATER PIPES & 250-499 WATT LIGHTS	12"	6"
SIDE OF CEILING OR WALL MOUNTED HOT AIR DIFFUSERS	24"	12"
FRONT OF WALL MOUNTED HOT AIR DIFFUSERS	36"	18"
HOT WATER HEATER, FURNACE, LIGHT FIXTURE 0-250 WATT	6"	3"

	NFPA 13 - Table 9.2.2.1(a) Maximum Distance Between Hangers (ft.-in.)															
	Nominal Pipe Size (in.)															
	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	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	N/A	N/A	N/A	N/A	N/A	N/A
Threaded lightwall steel pipe	N/A	12-0	12-0	15-0	15-0	15-0	15-0	15-0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Copper tube	8-0	8-0	10-0	10-0	12-0	12-0	15-0	15-0	15-0	15-0	N/A	N/A	N/A	N/A	N/A	N/A
CPVC	5-6	6-0	6-6	7-0	8-0	9-0	10-0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

PIPE VOLUMES:
MAIN LEVEL (ZONE 2)
(CPVC)
TOTAL PIPE FOOTAGE AND CAPACITY:
1" = 719' (35.56 GAL)
1 1/2" = 49' (3.88 GAL)

TOTAL VOLUME: ±39.44 GALLONS

PIPE VOLUMES:
LOWER LEVEL (ZONE 1)
(CPVC)
TOTAL PIPE FOOTAGE AND CAPACITY:
1" = 575' (28.44 GAL)
1 1/2" = 11' (0.87 GAL)

TOTAL VOLUME: ±39.31 GALLONS

NFPA 13 - Table A.7.2.3 Capacity of 1 ft of pipe (Based on Actual Internal Pipe Diameter)			
Nominal Pipe Diameter (in.)	Schedule 40 Schedule 10 (gal)	CPVC	
1	0.045	0.049	0.049
1 1/4	0.078	0.085	0.079
1 1/2	0.106	0.115	0.104
2	0.174	0.190	
2 1/2	0.248	0.283	

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

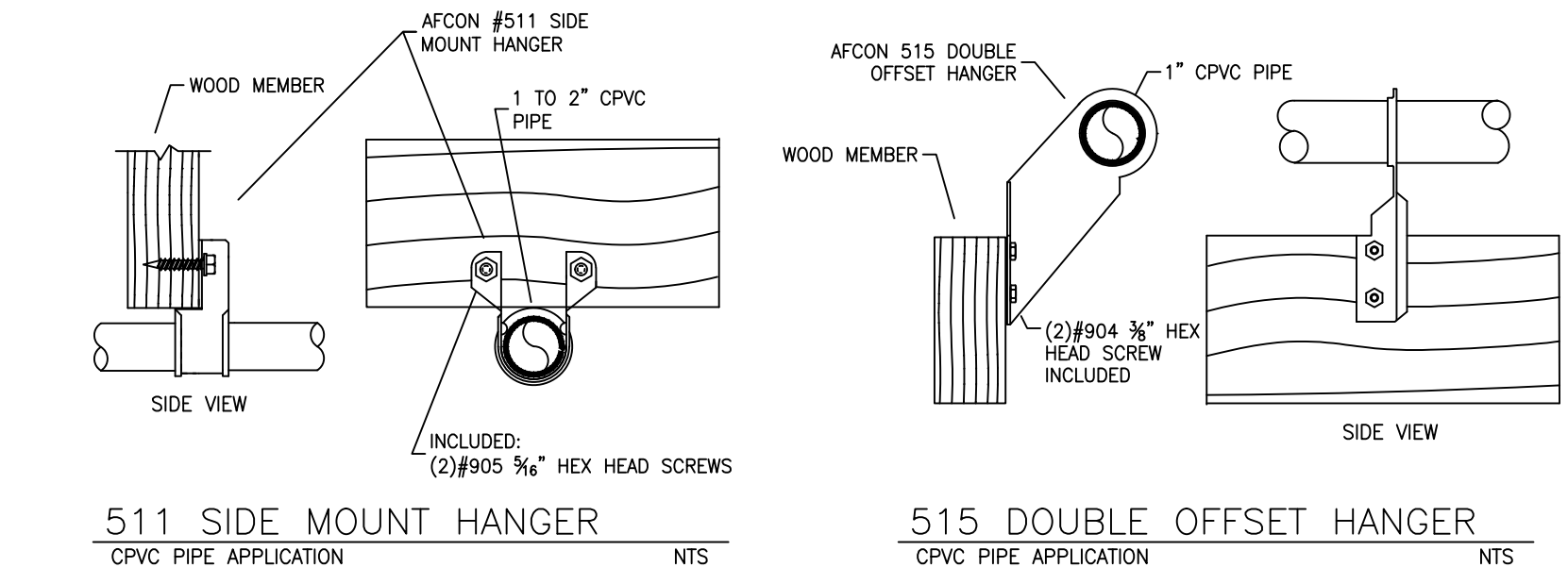
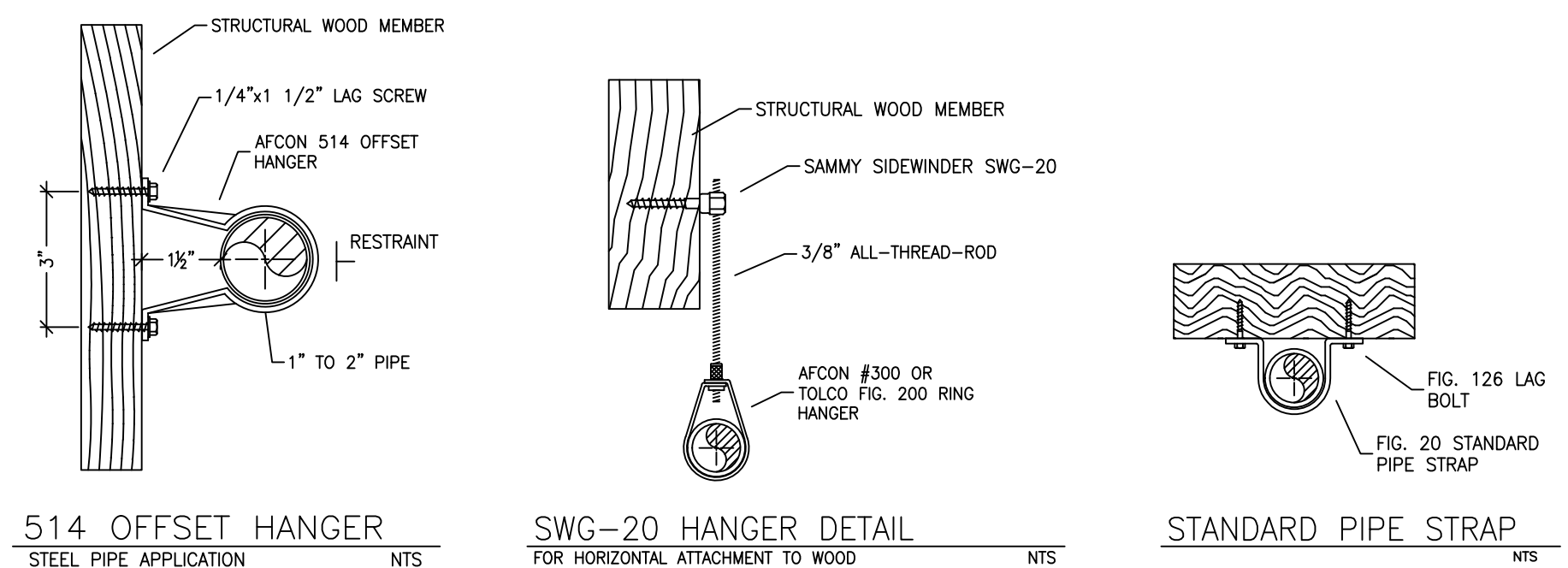
PROJECT SQUARE FOOTAGES
LOWER LEVEL (ZONE 1) = 6271 S.F.
UPPER LEVEL (ZONE 2) = 8622 S.F.

THIS FIRE SPRINKLER SYSTEM UTILIZES THE TYCO LFP ANTI-FREEZE SOLUTION

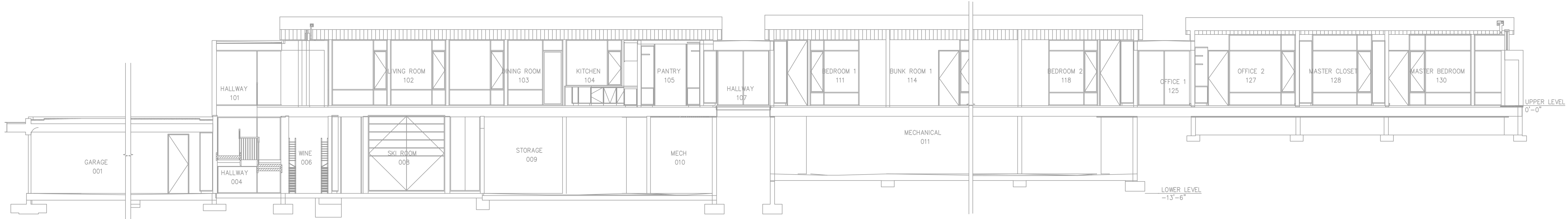
- SPRINKLER SPACING
- A SINGLE PENDENT SPRINKLER MAY BE SPACED AT A MAXIMUM OF 16'x16' (256SQ. FT.) OR UP TO 8' OFF A WALL.
 - TWO OR MORE HEADS IN A COMPARTMENT SHALL BE SPACED AT A MAXIMUM OF 16'x16' (256SQ. FT.) OR UP TO 8' OFF A WALL U.N.O.
 - SPRINKLERS SHALL BE MEASURED AT PERPENDICULAR ANGLES TO WALLS AND ALONG THE SLOPES OF CEILINGS.

PROJECT SUMMARY:
PROJECT NAME: MARTIS CAMP LOT 601 BORO RESIDENCE
PROJECT ADDRESS: 9468 CLERMONT CT., TRUCKEE, CA
APN: [REDACTED]
PROJECT TYPE: NEW T.I.
TYPE OF CONSTRUCTION: R3
OCCUPANCY GROUP(S): V
OCCUPIED LEVELS: 2
TOTAL SPRINKLERED AREA: 14,893 SQ. FT.
NFPA CODE REQUIREMENT: NFPA 13 NFPA 13R NFPA 13D
NUMBER OF SYSTEMS: 2
SYSTEM TYPE(S): WET ANTI-FREEZE DRY PREACTION
TOTAL SPRINKLERS: 102
SPECIAL NOTES: SEE FIRE SPRINKLER NOTES THIS SHEET

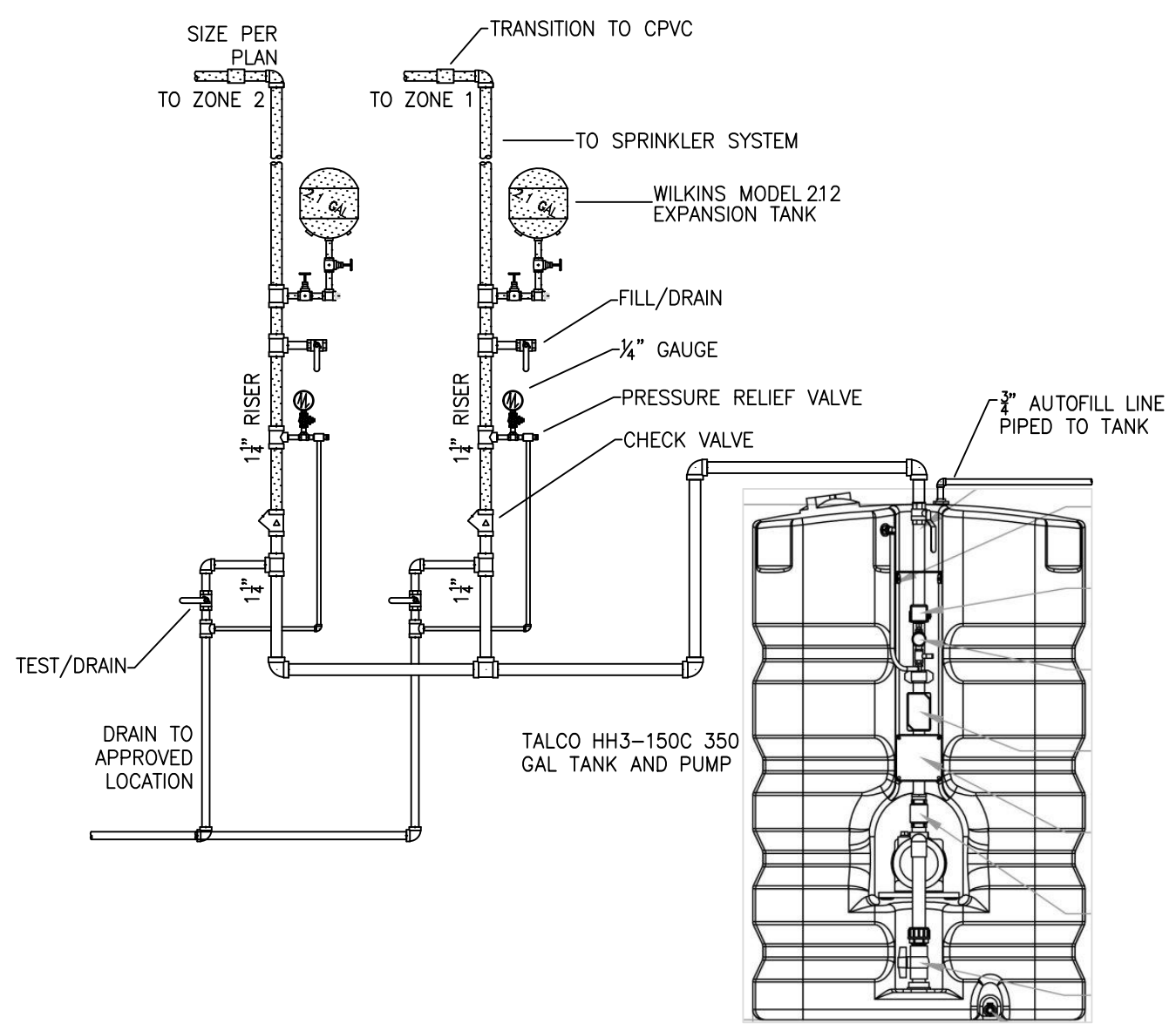
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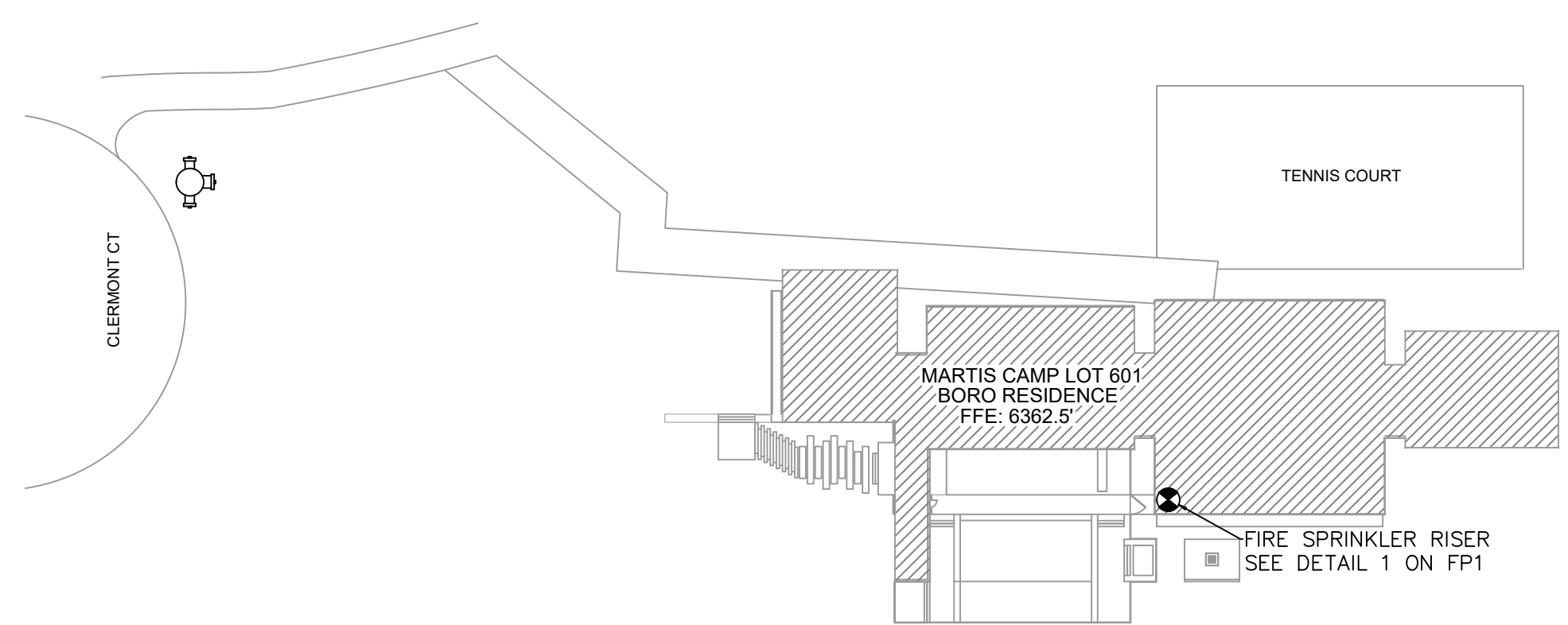
HANGER DETAILS



BUILDING SECTION A
SCALE: 1/8" = 1'-0"



1 RISER DETAIL
SCALE: 1/2" = 1'-0"



SITE PLAN
SCALE: 1" = 50'-0"

NO.	DATE	REVISIONS	DRAWN	CHECKED

GENERAL CONTRACTOR: [REDACTED] AUTHORITY HAVING JURISDICTION: TOWN OF TRUCKEE BUILDING DIVISION
ADDRESS: 10183 TRUCKEE AIRPORT RD ADDRESS: TRUCKEE, CA 96161
CITY: TRUCKEE, CA 96161 CITY: TRUCKEE, CA 96161
PHONE: 530-582-7820 PHONE: 530-582-7820
CONTACT: CONTACT:

ARCHITECT: FIELD INSPECTIONS:
1.
2.
3.
4.

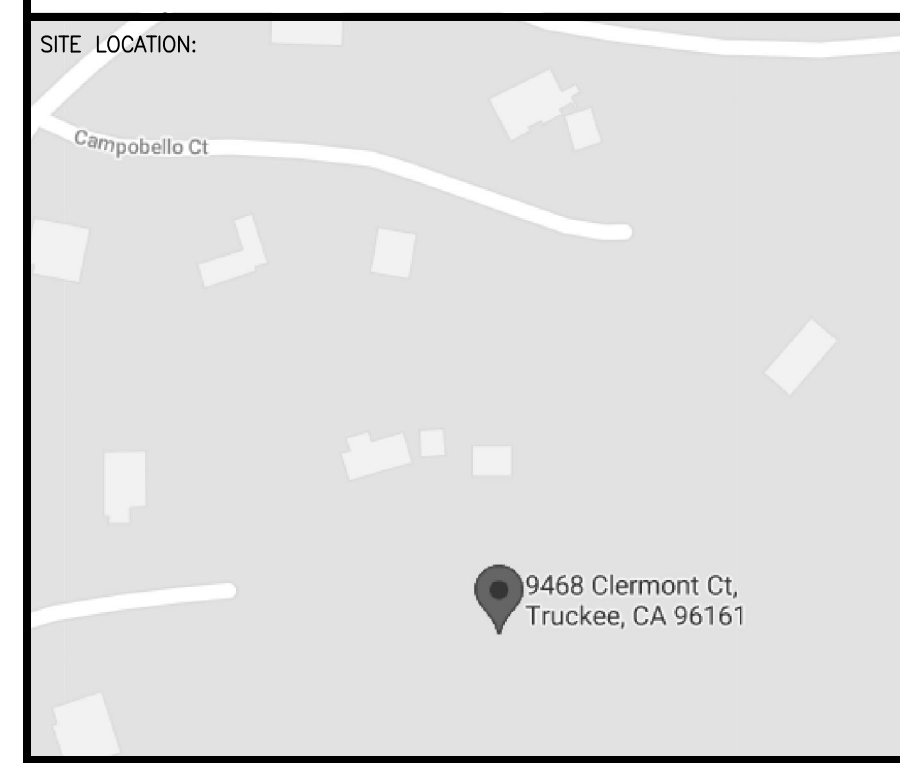
- FIRE SPRINKLER NOTES:
- THE PROPOSED FIRE SPRINKLER SYSTEM IS AN ANTI-FREEZE SYSTEM AND SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 13D AND THE AUTHORITY HAVING JURISDICTION.
 - THIS SPRINKLER SYSTEM IS HYDRAULICALLY CALCULATED IN ACCORDANCE WITH NFPA 13D TO PROVIDE 0.05 GPM PER SQ. FT. 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.
 - ALL DIMENSIONS SHOWN ARE CENTER TO CENTER U.O.N.
 - 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	K	TEMP	FINISH	SL
⊗	88	CONCEALED	SENJU	RC-RES	1/2"	4.9	162	WHITE	SS8464
⊗	12	SEMI-RECESS	SENJU	FR-RES	1/2"	4.9	175	WHITE	SS4451
⊗	2	CONCEALED	SENJU	RC-RES	1/2"	4.9	175	WHITE	SS8464

102 TOTAL SPRINKLERS

- FIRE SPRINKLER SYMBOLS
- ⊗ AUTOMATIC SPRINKLER RISER +13' ELEV. BELOW DECK OR TOS
 - ⊕ EARTHQUAKE BRACING +12'-9" ELEV. ABOVE FINISHED FLOOR
 - 2-WAY & 4-WAY → CHANGE ELEVATION UP
 - PIPE HANGER & TYPE DESIGNATION → CHANGE ELEVATION DN
 - HYDRAULIC REF PT → INSPECTORS TEST
 - GRID OR THRD CAP → AUX DRAIN
 - GRID COUPLING → REVISION NOTATION
 - ⊕ TYPICAL POINT OF CONNECTION (POC) → LOCAL ALARM

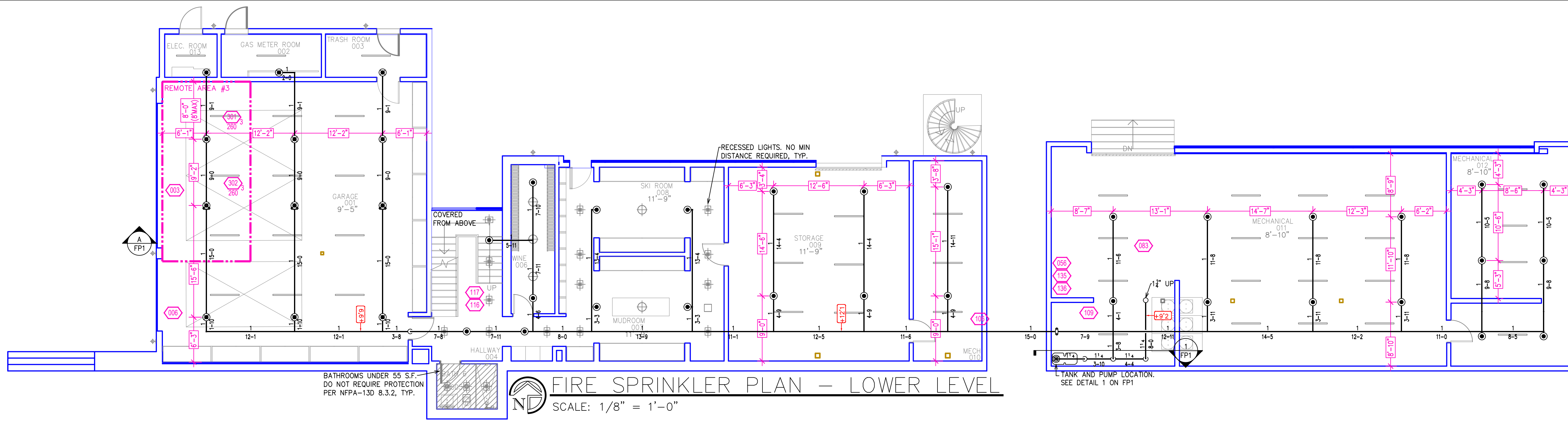


PROJECT NAME: FIRE SPRINKLER PLANS FOR
MARTIS CAMP LOT 601 BORO RESIDENCE
9468 CLERMONT CT.
TRUCKEE, CA 96161

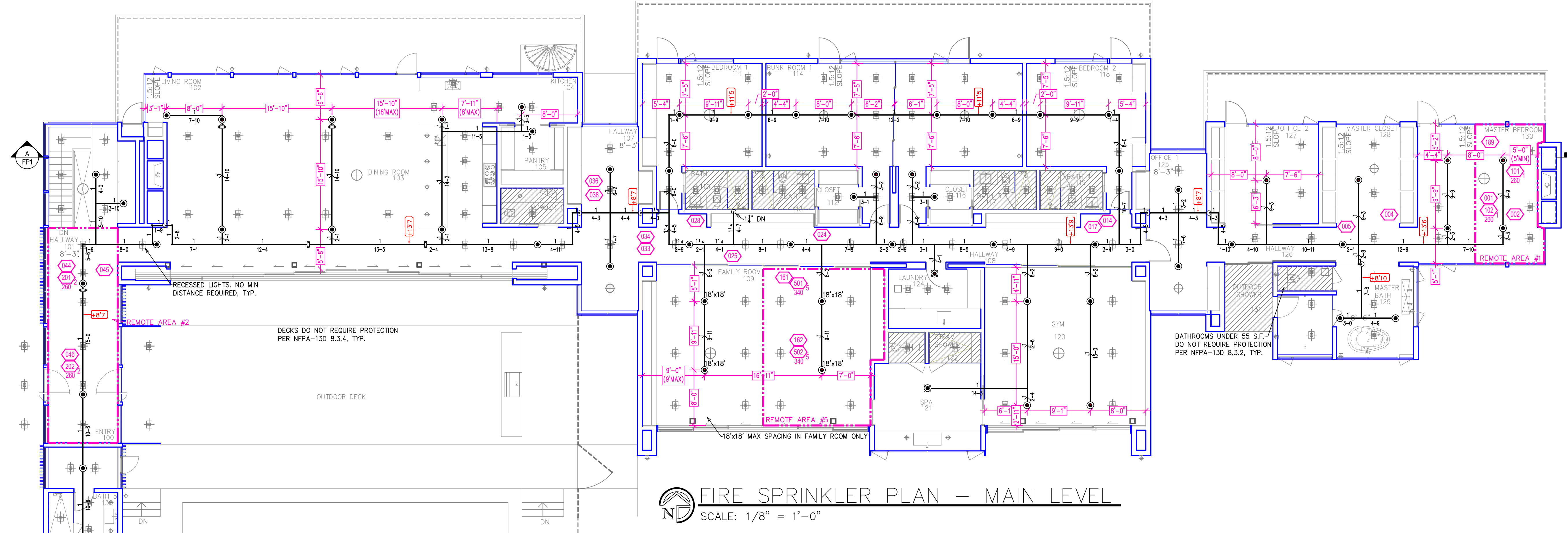
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DRAWING TITLE:
FIRE SPRINKLER PLAN

SCALE: 1/8" = 1'-0"	JOB NO.:
DRAWN BY:	DWG NO.:
BORN ON DATE: 10/4/2021	FP-1
FILE: 10/4/2021	SHEET 1 OF 2



FIRE SPRINKLER PLAN - LOWER LEVEL
SCALE: 1/8" = 1'-0"



FIRE SPRINKLER PLAN - MAIN LEVEL
SCALE: 1/8" = 1'-0"

REMOTE AREA 1
Hydraulically Calculated System

This system as shown on Fire Protection Plan
company print no. FP2 dated 9/7/2021
for MARTIS CAMP LOT 601 BORO RESIDENCE
at MASTER BEDROOM contract no. _____
is designed to discharge at a rate of 0.05 gpm
(L/min) per sq ft (m²) of floor area over a maximum area of
[NFA 13D-2 SPRINKLERS] sq ft (m²) when supplied
with water at the rate of 28.1 gpm (L/min)
at 42.5 psi (bars) at the base of the riser.
Hose stream allowance of 0 gpm (L/min)
is included in the above.
Occupancy classification 130 LIGHT HAZARD
Commodity classification NA
Maximum storage height NA
Safety factor 8.3

REMOTE AREA 2
Hydraulically Calculated System

This system as shown on Fire Protection Plan
company print no. FP2 dated 9/7/2021
for MARTIS CAMP LOT 601 BORO RESIDENCE
at HALLWAY/ENTRY contract no. _____
is designed to discharge at a rate of 0.05 gpm
(L/min) per sq ft (m²) of floor area over a maximum area of
[NFA 13D-2 SPRINKLERS] sq ft (m²) when supplied
with water at the rate of 28.5 gpm (L/min)
at 45.0 psi (bars) at the base of the riser.
Hose stream allowance of 0 gpm (L/min)
is included in the above.
Occupancy classification 130 LIGHT HAZARD
Commodity classification NA
Maximum storage height NA
Safety factor 5.7

REMOTE AREA 3
Hydraulically Calculated System

This system as shown on Fire Protection Plan
company print no. FP2 dated 9/7/2021
for MARTIS CAMP LOT 601 BORO RESIDENCE
at GARAGE contract no. _____
is designed to discharge at a rate of 0.05 gpm
(L/min) per sq ft (m²) of floor area over a maximum area of
[NFA 13D-2 SPRINKLERS] sq ft (m²) when supplied
with water at the rate of 25.3 gpm (L/min)
at 38.7 psi (bars) at the base of the riser.
Hose stream allowance of 0 gpm (L/min)
is included in the above.
Occupancy classification 130 LIGHT HAZARD
Commodity classification NA
Maximum storage height NA
Safety factor 14.3

REMOTE AREA 5
Hydraulically Calculated System

This system as shown on Fire Protection Plan
company print no. FP2 dated 9/7/2021
for MARTIS CAMP LOT 601 BORO RESIDENCE
at FAMILY ROOM contract no. _____
is designed to discharge at a rate of 0.05 gpm
(L/min) per sq ft (m²) of floor area over a maximum area of
[NFA 13D-2 SPRINKLERS] sq ft (m²) when supplied
with water at the rate of 34.9 gpm (L/min)
at 39.9 psi (bars) at the base of the riser.
Hose stream allowance of 0 gpm (L/min)
is included in the above.
Occupancy classification 130 LIGHT HAZARD
Commodity classification NA
Maximum storage height NA
Safety factor 8.2

NO.	DATE	REVISIONS	DRAWN	CHECKED

GENERAL CONTRACTOR: AUTHORITY HAVING JURISDICTION:
ADDRESS: 10183 TRUCKEE AIRPORT RD CITY: TRUCKEE, CA 96161
PHONE: 530-582-7820 CONTACT:
ARCHITECT: FIELD INSPECTIONS:
ADDRESS: CITY: PHONE:
1. 2. 3. 4.

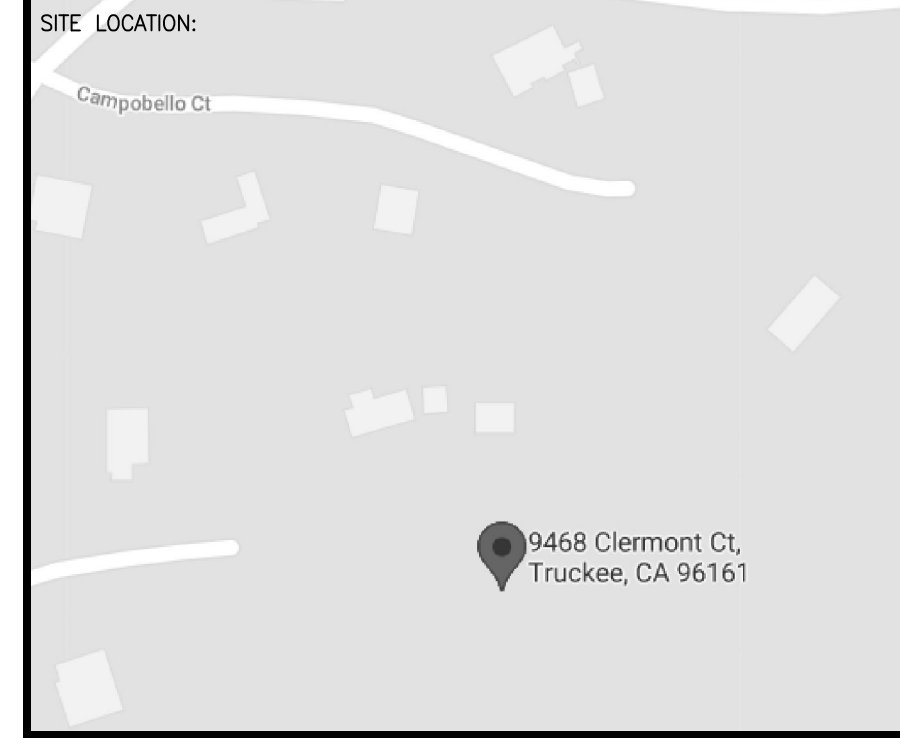
- FIRE SPRINKLER NOTES:**
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 8. ALL SYSTEM PIPING SHALL BE TESTED FOR LEAKAGE AT NORMAL SYSTEM OPERATING PRESSURE.
 9. THE OWNER SHALL BE RESPONSIBLE FOR MAINTAINING A MINIMUM TEMPERATURE OF 40° FAHRENHEIT TO PROTECT FROM FREEZING, THE SECTIONS OF THE SPRINKLER SYSTEM WHERE THERE IS NO ANTI-FREEZE IN THE PIPING (UPSTREAM OF THE RISER).

SPRINKLER HEAD LEGEND

SYM	QTY	TYPE	MFG.	MODEL#	NPT	K	TEMP.	FINISH	SL
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⊗	12	SEMI-RECESS	SENJL	FR-RES	1/2"	4.9	175	WHITE	SS4451
⊗	2	CONCEALED	SENJL	RC-RES	1/2"	4.9	175	WHITE	SS8464

102 TOTAL SPRINKLERS ON THIS SHEET

- FIRE SPRINKLER SYMBOLS**
- ⊗ AUTOMATIC SPRINKLER RISER +13" ELEV. BELOW DECK OR TOS
 - ⊕ EARTHQUAKE BRACING +12'-9" ELEV. ABOVE FINISHED FLOOR
 - 2-WAY & 4-WAY → CHANGE ELEVATION UP
 - PIPE HANGER & TYPE DESIGNATION → CHANGE ELEVATION DN
 - HYDRAULIC REF PT → INSPECTORS TEST
 - GRID OR THRD CAP → AUX DRAIN
 - GRID COUPLING → REVISION NOTATION
 - ⊕ TYPICAL POINT OF CONNECTION (POC) → LOCAL ALARM

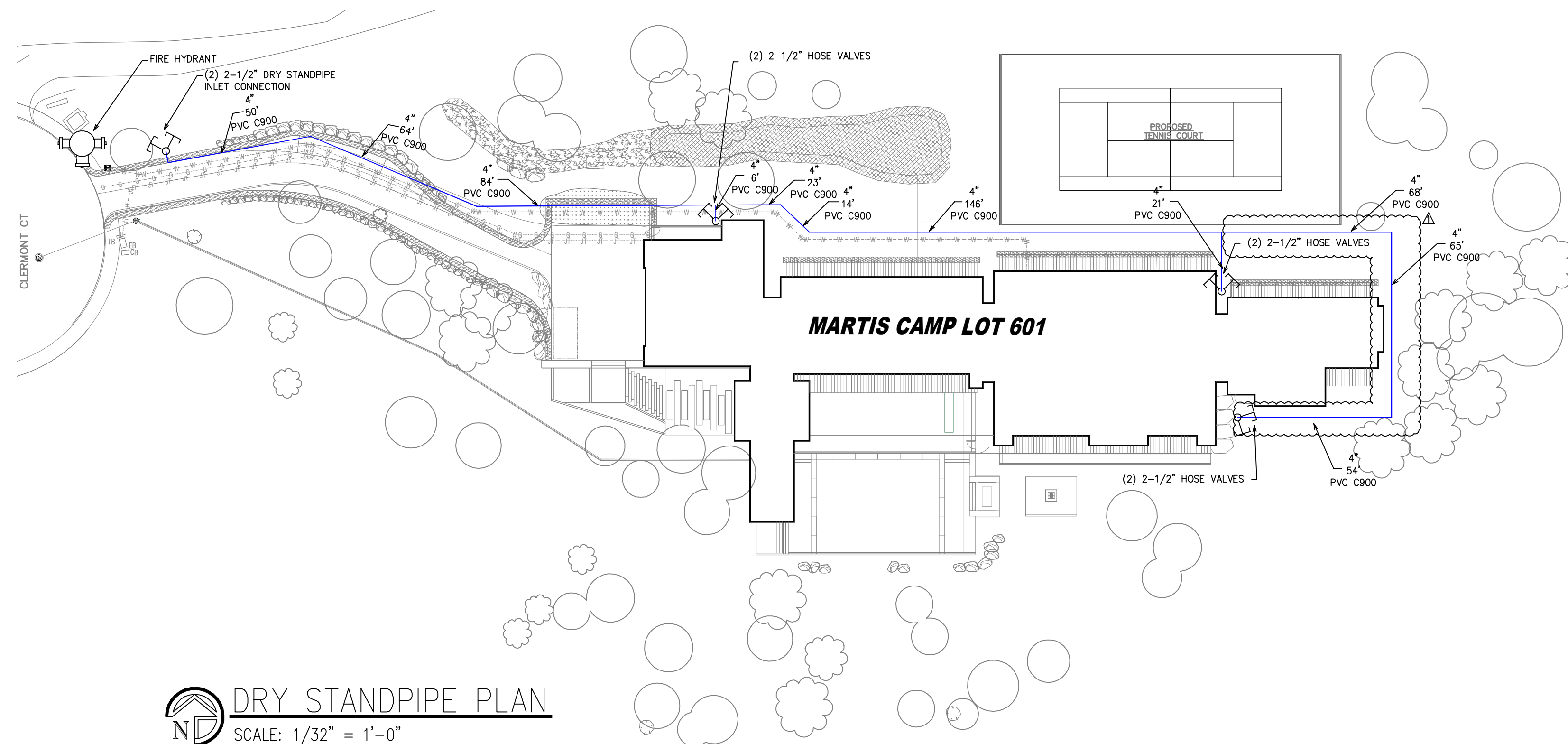


PROJECT NAME: FIRE SPRINKLER PLANS FOR
MARTIS CAMP LOT 601 BORO RESIDENCE
9468 CLERMONT CT.
TRUCKEE, CA 96161

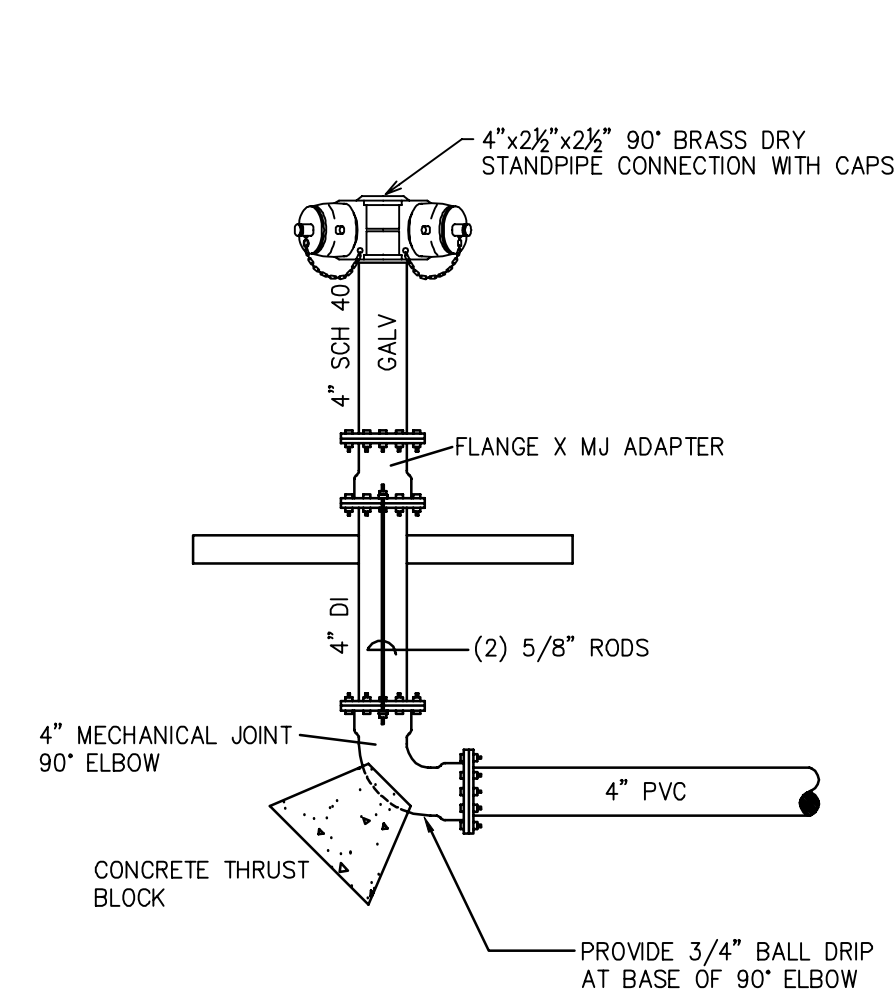
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DRAWING TITLE:
FIRE SPRINKLER PLAN

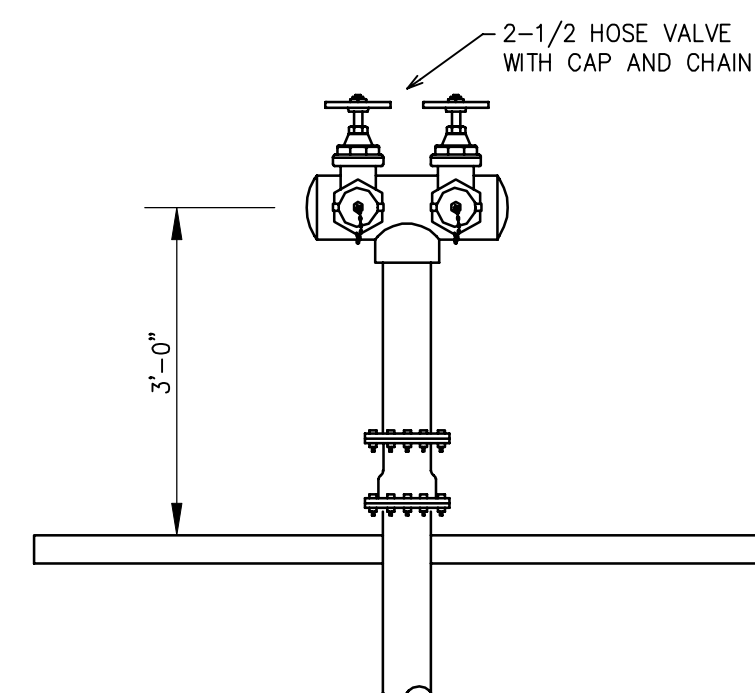
SCALE: 1/8"=1'-0" JOB NO.:
DRAWN BY: DWG NO.:
BORN ON DATE: 10/4/2021 FILE: 10/4/2021
SHEET 2 OF 2



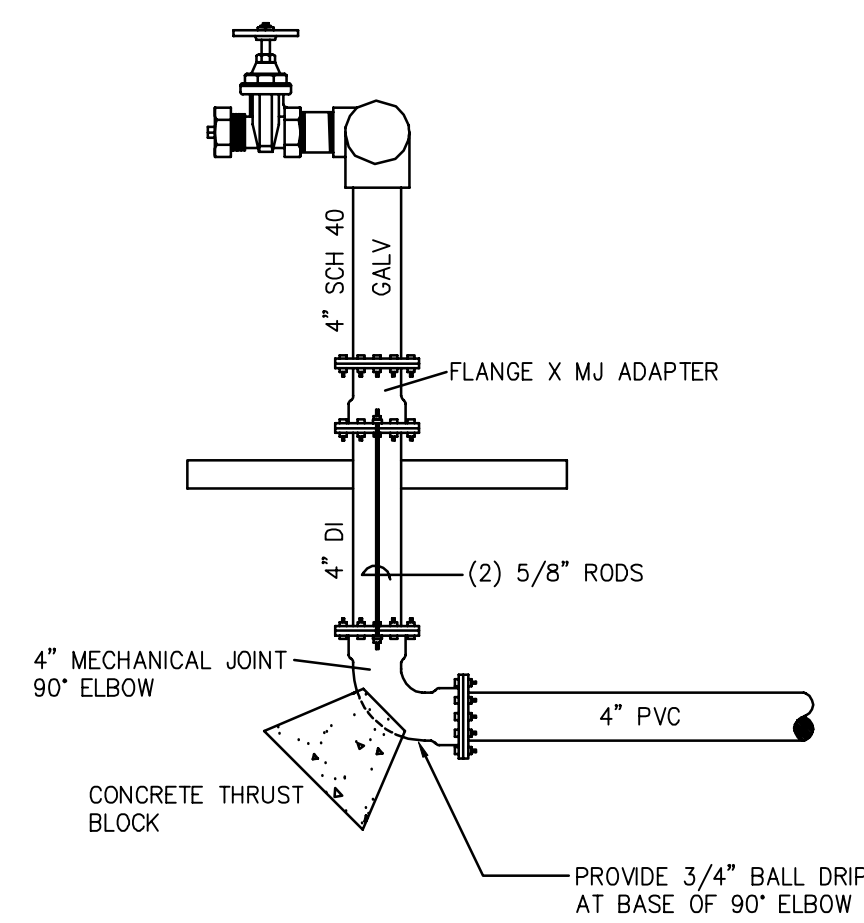
DRY STANDPIPE PLAN
SCALE: 1/32" = 1'-0"



(2) 2-1/2" DRY STANDPIPE CONNECTION



(2) 2-1/2" HOSE VALVE CONNECTIONS



GENERAL NOTES

- UNDERGROUND TO BE INSTALLED PER NFPA 13 (2016), NFPA 24 (2016), AND PER THE REQUIREMENTS OF THE AHJ
- ALL PORTIONS OF THE UNDERGROUND MAIN AND FITTINGS SHALL BE CLASS 150 C900 PVC. ALL TIE RODS, BOLTS, NUTS, ETC. SHALL BE THOROUGHLY COATED WITH BITUMINOUS OR OTHER ACCEPTABLE CORROSION RETARDING MATERIAL.
- PIPE AND FITTINGS TO BE UL LISTED FOR FIRE SERVICE
- UNDERGROUND TO BE RODED AND/OR THRUST BLOCKED PER NFPA 24
- A HYDROSTATIC PRESSURE TEST A 200 PSI FOR 2 HOURS SHALL BE CONDUCTED BEFORE JOINTS ARE COVERED
- THE UNDERGROUND PIPING SHALL BE FLUSHED UNTIL CLEAN AND TO BE WITNESSED BY THE AHJ.
- PER NFPA 13 SEC. 10.10.1 INSTALLING CONTRACTOR SHALL COMPLETE AND SIGN THE CONTRACTOR'S MATERIAL AND TEST CERTIFICATES AND DELIVER TO THE FIRE PREVENTION BUREAU
- ALL PIPE FITTINGS AND TRANSITIONS TO HAVE APPROVED THRUST BLOCKS AND/OR MECHANICAL RESTRAINTS MEETING ALL APPLICABLE CODES
- PIPE AND FITTINGS TO BE CLASS 150, MINIMUM
- MINIMUM PIPE BURY TO BE 42"
- SET THE RISER FLANGE AT +6" ABOVE FINISH GRADE
- PROVIDE A 2" ANNULAR CLEARANCE AROUND PIPE AND CONCRETE PENETRATIONS
- COORDINATE WORK SHOWN WITH OTHER SITE WORK
- VEGETATION SHALL BE MAINTAINED BY OWNER IN SUCH MANNER AS TO ALLOW IMMEDIATE LOCATION AND UNOBSTRUCTED ACCESS TO ALL HYDRANTS, FIRE DEPARTMENT CONNECTIONS, AND HOSE VALVES.

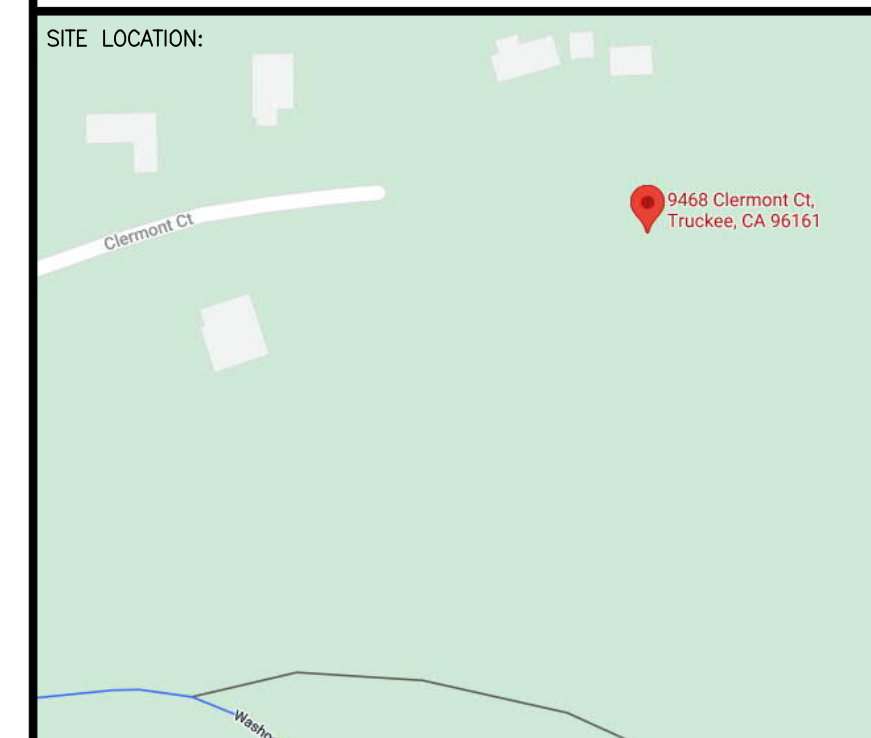
1	6/18/21	FIRE MARSHAL REVIEW		

NO.	DATE	REVISIONS	DRAWN	CHECKED

GENERAL CONTRACTOR: AUTHORITY HAVING JURISDICTION:
TOWN OF TRUCKEE BUILDING DIVISION
ADDRESS: 10183 TRUCKEE AIRPORT RD
CITY: TRUCKEE, CA 96161
PHONE: 530-582-7820
CONTACT:
ARCHITECT: FIELD INSPECTIONS:
1.
2.
3.
4.

FIRE SPRINKLER SYMBOLS

⊗	AUTOMATIC SPRINKLER RISER	+13" ELEV. BELOW DECK OR TOS
⊕	EARTHQUAKE BRACING	+12'-9" ELEV. ABOVE FINISHED FLOOR
⊕	2-WAY & 4-WAY	— CHANGE ELEVATION UP
⊕	PIPE HANGER & TYPE DESIGNATION	— CHANGE ELEVATION DN
⊕	HYDRAULIC REF PT	— INSPECTORS TEST
⊕	GRVD OR THRD CAP	—R- AUX DRAIN
⊕	GRVD COUPLING	△ REVISION NOTATION
⊕	TYPICAL POINT OF CONNECTION (POC)	⊕ LOCAL ALARM



PROJECT NAME: FIRE SPRINKLER PLANS FOR
MARTIS CAMP LOT 601
9488 CLERMONT CT.
TRUCKEE, CA 96161

DRAWING TITLE:
DRY STANDPIPE PLAN

SCALE: 1/8"=1'-0"	JOB NO.: 05/14/2021
DRAWN BY:	DWG NO.:
BORN ON DATE: 05/14/2021	FP-1
FILE: 05/14/2021	SHEET 1 OF 1