

SPRINKLER HEAT ZONES:

| HEAT SOURCE: | 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 A.7.2.3 Capacity of 1 ft of pipe (Based on Actual Internal Pipe Diameter)

| Nominal Pipe Diameter (in.) | Pipe Schedule 40 (gal) | Schedule 10 (gal) | CPVC (gal) |
|-----------------------------|------------------------|-------------------|------------|
| 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 | |

PIPE VOLUMES:
(CPVC)

TOTAL PIPE FOOTAGE AND CAPACITY:
 1" 469 (23.19 GAL)
 1-1/4" 60 (4.76 GAL)

ADD 10% FOR DROPS AND PIPE SIZE DISCREPANCIES
 TOTAL VOLUME: ±30.75 GALLONS

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 | 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 | 8-0 | 10-0 | N/A | N/A | N/A |

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 8.6.2

PROJECT SQUARE FOOTAGES
 MAIN FLOOR = 7121 S.F.

SPRINKLER SPACING

- A SINGLE PENDENT SPRINKLER MAY BE SPACED AT A MAXIMUM OF 18'x18' (324 SQ. 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 14'x14' (196 SQ. FT.) OR UP TO 7' OFF A WALL (MINIMUM 8'-0" BETWEEN SPRINKLERS)
- SPRINKLERS SHALL BE MEASURED AT PERPENDICULAR ANGLES TO WALLS AND ALONG THE SLOPES OF CEILING.

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

PROJECT SUMMARY:

PROJECT NAME: PEEK RESIDENCE
 PROJECT ADDRESS: 2464 LAKERIDGE SHORES E, RENO, NV 042-080-13
 APN: 042-080-13
 PROJECT TYPE: NEW T.I.
 TYPE OF CONSTRUCTION: V
 OCCUPANCY GROUP(S): R3
 OCCUPIED LEVELS: 1
 TOTAL SPRINKLERED AREA: 7121 SQ. FT.
 NFPA CODE REQUIREMENT: NFPA 13 NFPA 13R NFPA 13D
 NUMBER OF SYSTEMS: 1
 SYSTEM TYPE(S): WET ANTI-FREEZE DRY PREACTION
 TOTAL SPRINKLERS: 50
 SPECIAL NOTES: SEE FIRE SPRINKLER NOTES THIS SHEET

| NO. | DATE | REVISIONS | DRAWN | CHECKED |
|-----|------|-----------|-------|---------|
| | | | | |
| | | | | |

GENERAL CONTRACTOR: AUTHORITY HAVING JURISDICTION:
 RENO FIRE DEPT
 ADDRESS: 495 E 4TH ST
 CITY: RENO, NV 89512
 PHONE: 775-334-2300
 CONTACT: CONTACT:
 ARCHITECT: FIELD INSPECTIONS:
 1.
 ADDRESS: 2.
 CITY: 3.
 PHONE: 4.

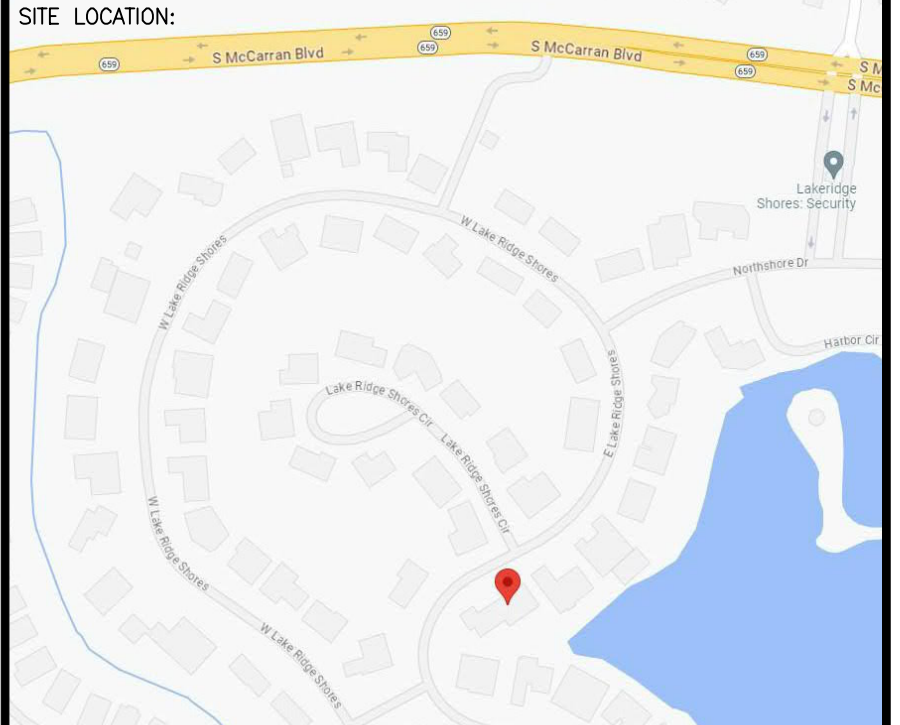
- FIRE SPRINKLER NOTES:**
- THE PROPOSED FIRE SPRINKLER SYSTEM IS AN ANTI-FREEZE SYSTEM AND SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 13D
 - THIS SPRINKLER SYSTEM IS HYDRAULICALLY CALCULATED IN ACCORDANCE WITH NFPA 13D TO PROVIDE 0.05 GPM PER SQ. FT. OVER THE MOST REMOTE AREA.
 - THE NUMBER OF DESIGN SPRINKLERS SHALL INCLUDE ALL SPRINKLERS WITHIN A COMPARTMENT UP TO A MAXIMUM OF 2 SPRINKLERS.
 - ALL SPRINKLER PIPING CONCEALED ABOVE CEILING 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 | S.I.N. |
|-----|-----|-----------|-------|--------|------|-----|------|--------|--------|
| ⊗ | 12 | CONCEALED | SENJU | RC-RES | 1/2" | 4.9 | 162 | WHITE | SS8464 |
| ⊗ | 2 | CONCEALED | SENJU | RC-RES | 1/2" | 4.9 | 205 | WHITE | SS8464 |
| ⊗ | 36 | CONCEALED | SENJU | RC-RES | 1/2" | 3.7 | 162 | WHITE | SS8281 |

50 TOTAL SPRINKLERS

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



CITY: RENO, NV 89501
 PHONE: 615-370-1779
 FIELD INSPECTIONS:
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 3.
 4.

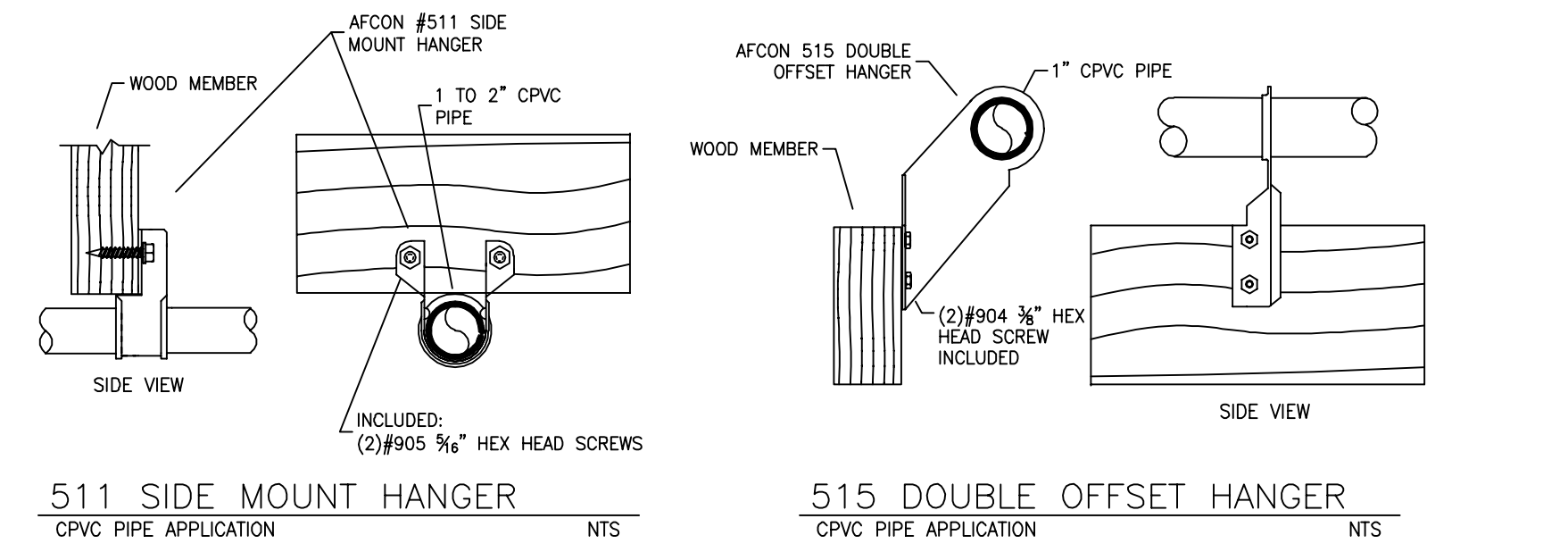
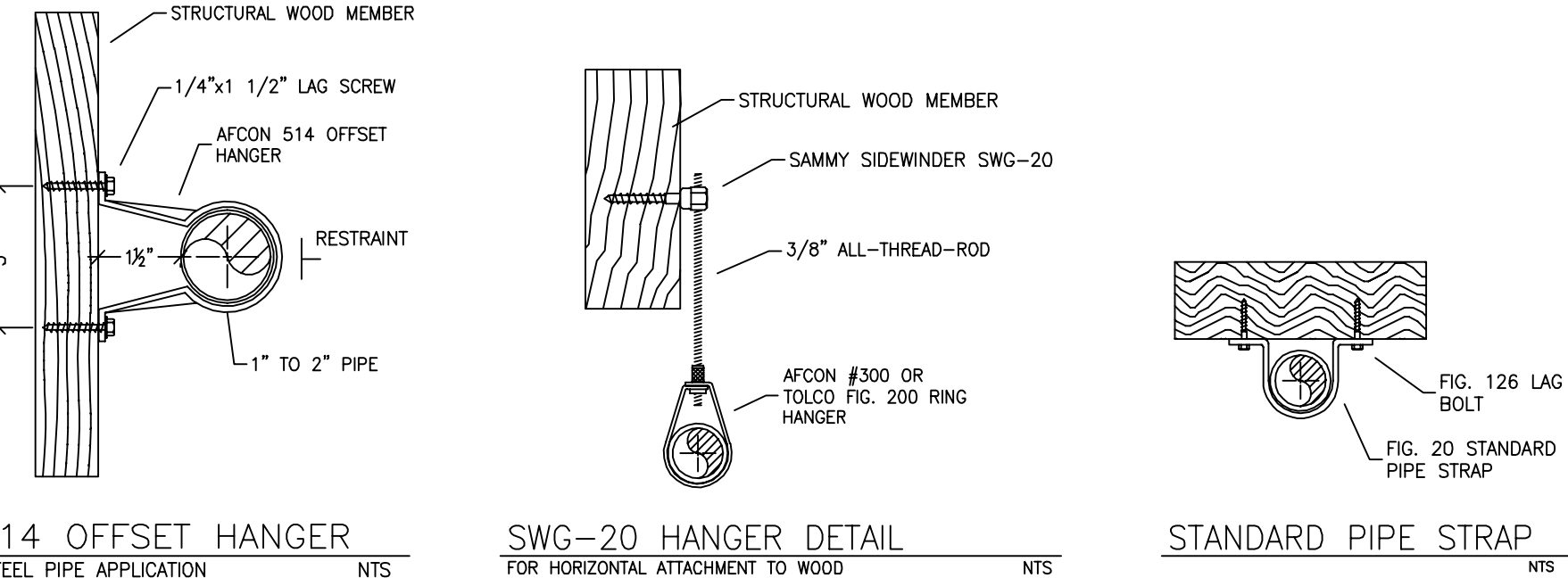
CITY OF RENO APPROVAL

PROJECT NAME: FIRE SPRINKLER PLANS FOR PEEK RESIDENCE
 2464 LAKERIDGE SHORES E
 RENO, NV 88519

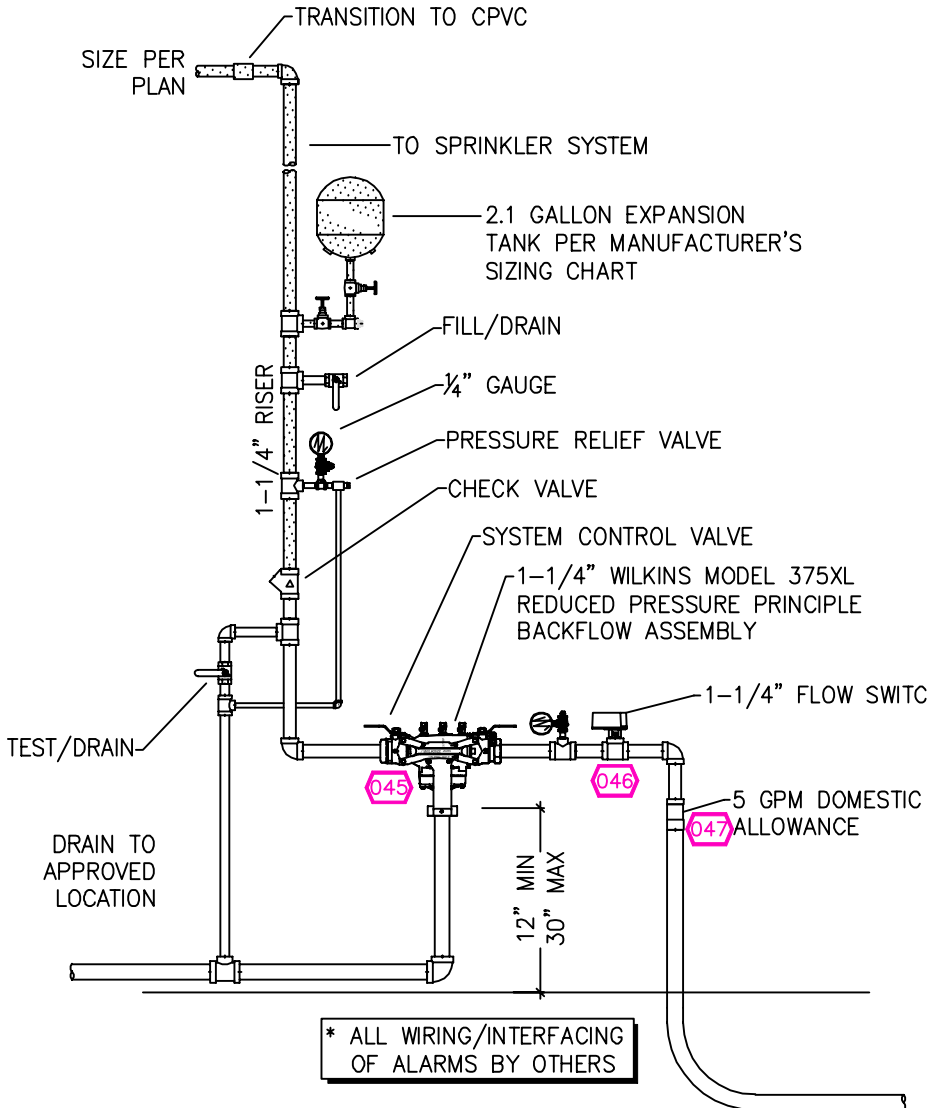
DRAWING TITLE: FIRE SPRINKLER PLAN

SCALE: 1/8" = 1'-0" JOB NO.:
 DRAWN BY: DWG NO.:
 BORN ON DATE: 10/13/2023
 FILE: SHEET 1 OF 2

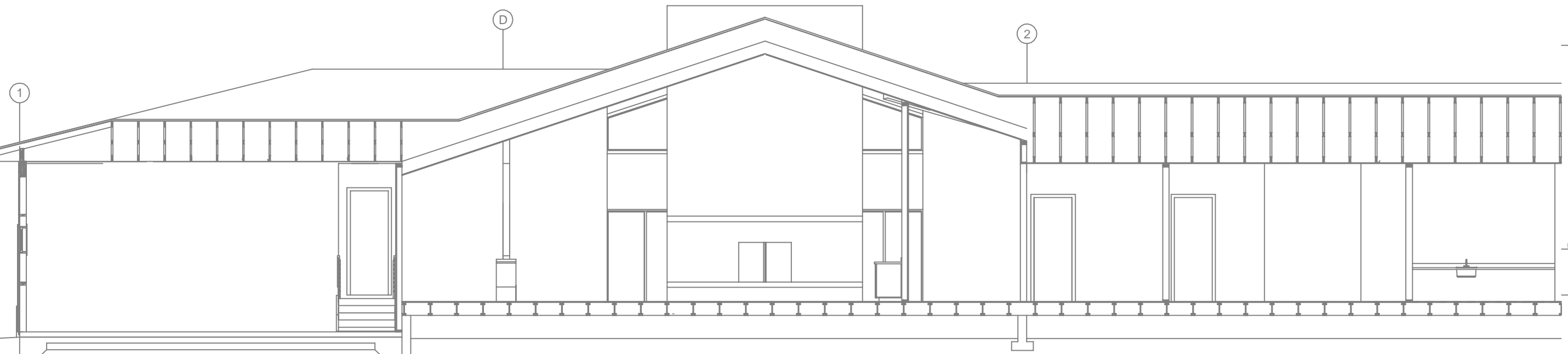
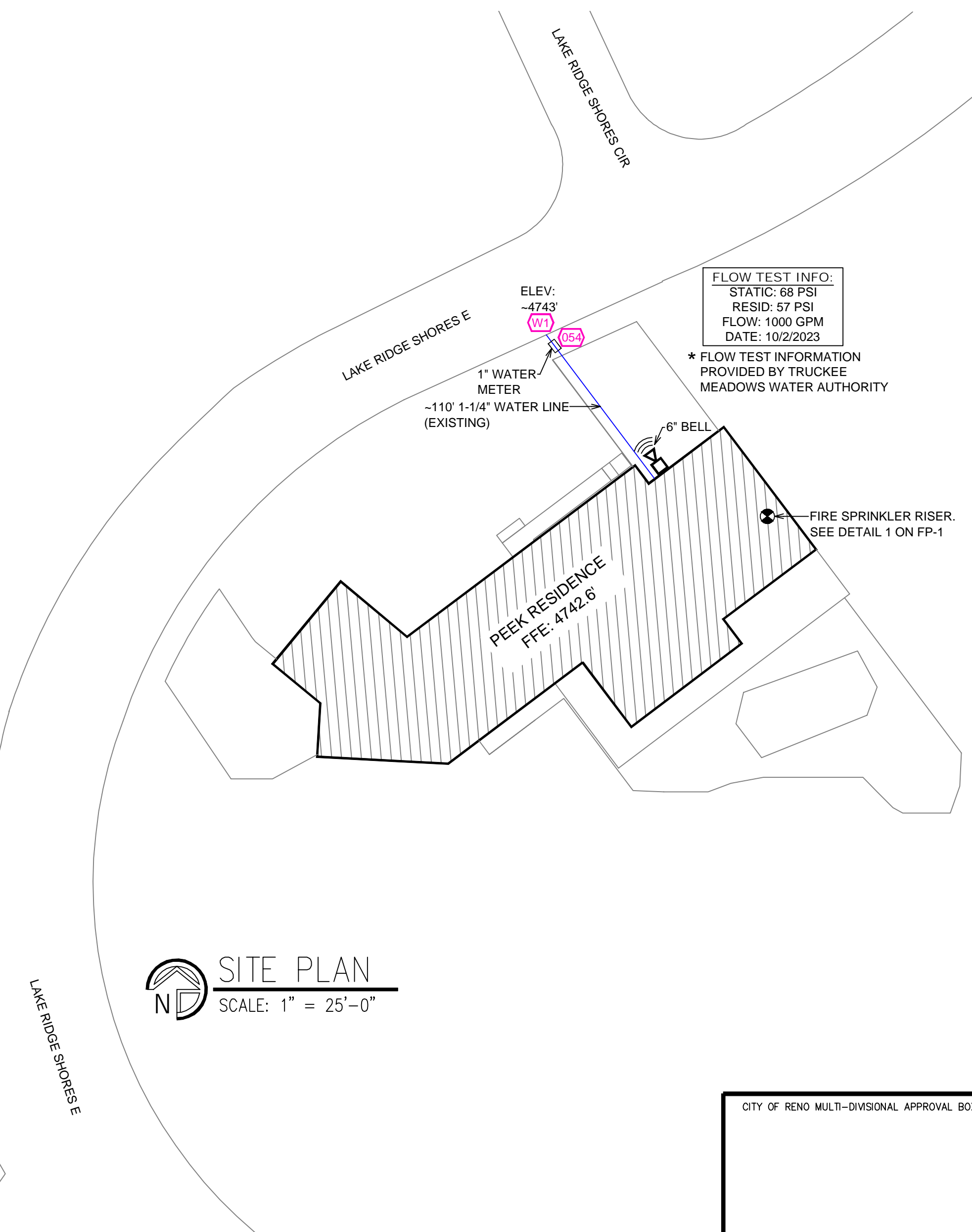
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HANGER DETAILS

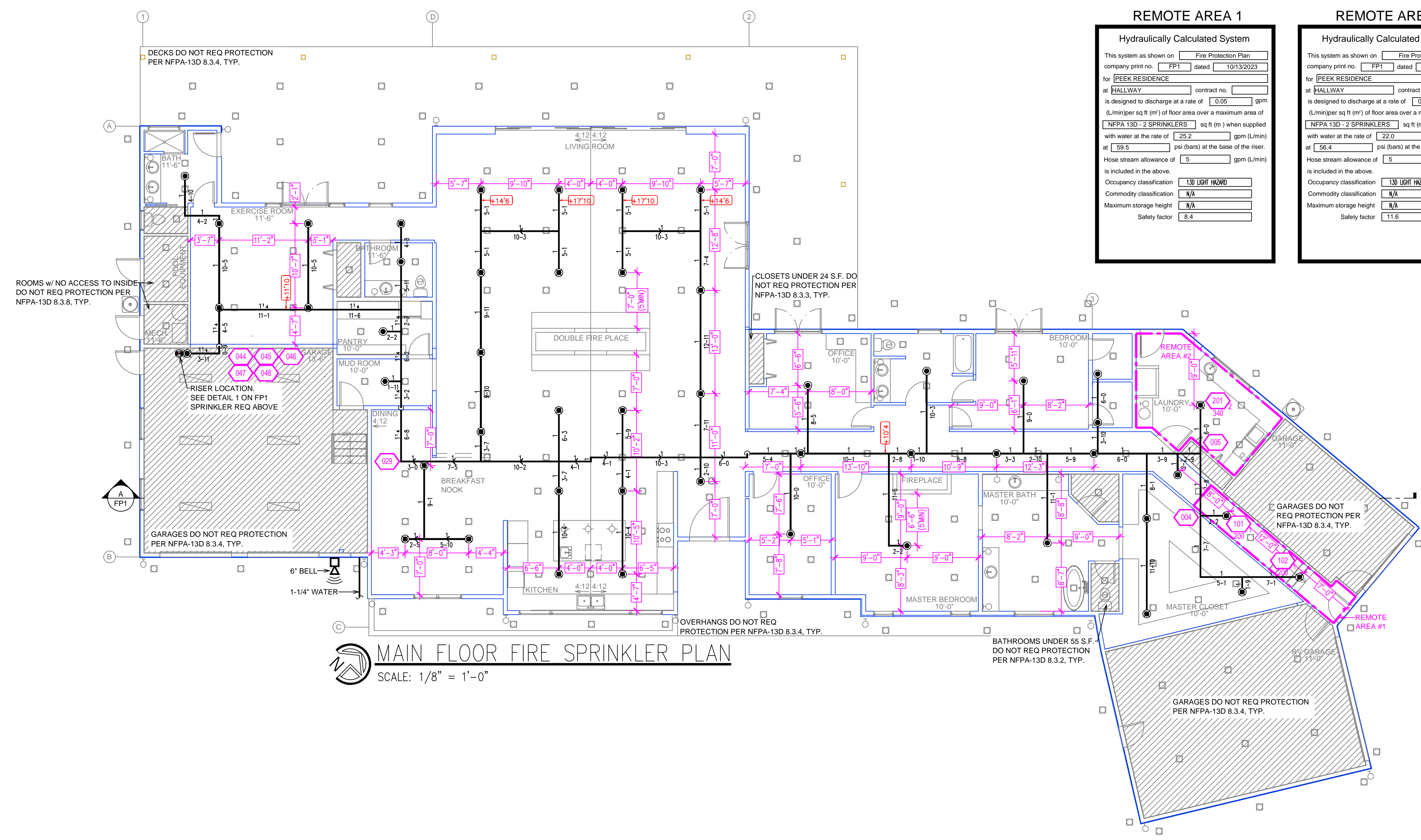


1 RISER DETAIL
 SCALE: 1/2" = 1'-0"



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

CITY OF RENO MULTI-DIVISIONAL APPROVAL BOX



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

REMOTE AREA 1

Hydraulically Calculated System

This system as shown on Fire Protection Plan
company print no. FPI dated 10/13/2023
for PEEK RESIDENCE

at HALLWAY 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
NFPA 13D - 2 SPRINKLERS sq ft (m²) when supplied
with water at the rate of 25.2 gpm (L/min)
at 59.5 psi (bars) at the base of the riser.
Hose stream allowance of 5 gpm (L/min)
is included in the above.

Occupancy classification: **LD LIGHT HAZRD**
Commodity classification: **NA**
Maximum storage height: **NA**
Safety factor: **5.4**

REMOTE AREA 2

Hydraulically Calculated System

This system as shown on Fire Protection Plan
company print no. FPI dated 10/13/2023
for PEEK RESIDENCE

at HALLWAY 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
NFPA 13D - 2 SPRINKLERS sq ft (m²) when supplied
with water at the rate of 22.0 gpm (L/min)
at 56.4 psi (bars) at the base of the riser.
Hose stream allowance of 5 gpm (L/min)
is included in the above.

Occupancy classification: **LD LIGHT HAZRD**
Commodity classification: **NA**
Maximum storage height: **NA**
Safety factor: **11.6**

| NO. | DATE | REVISIONS | DRAWN | CHECKED |
|-----|------|-----------|-------|---------|
| | | | | |

GENERAL CONTRACTOR: AUTHORITY HAVING JURISDICTION:
RENO FIRE DEPT

ADDRESS: ADDRESS: 495 E 4TH ST
CITY: RENO, NV 89512
PHONE: PHONE: 775-334-2300
CONTACT: CONTACT:

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

ADDRESS: 2.
CITY: 3.
PHONE: 4.

- FIRE SPRINKLER NOTES:**
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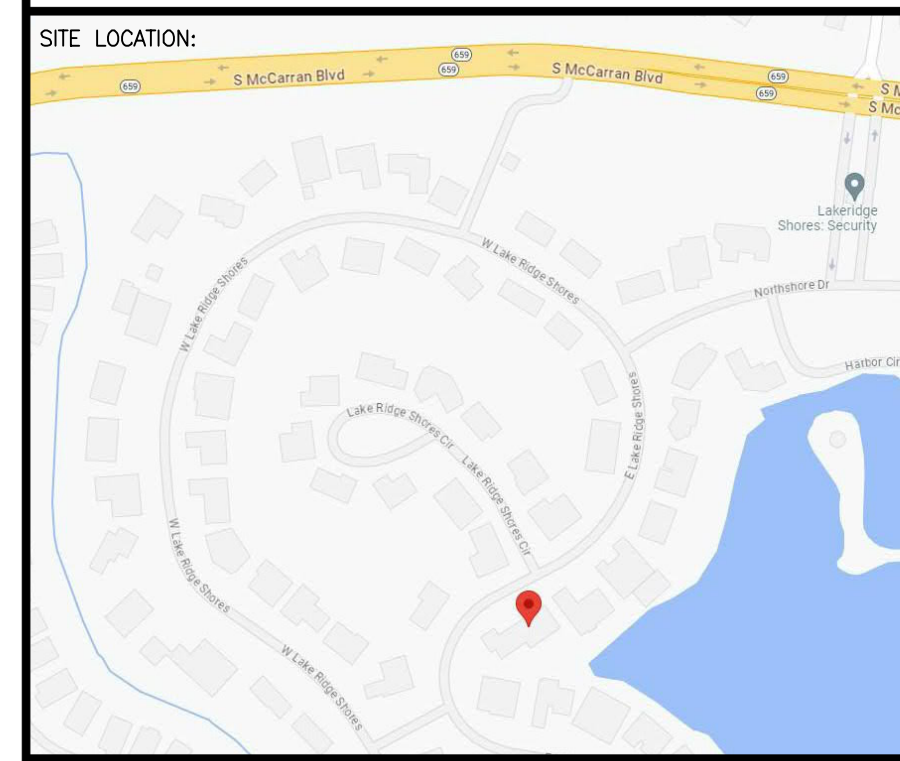
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| ⊗ | 36 | CONCEALED | SENJ | RC-RES | 1/2" | 3.7 | 162 | WHITE | SS8261 |

50 TOTAL SPRINKLERS

FIRE SPRINKLER SYMBOLS

| | |
|-------------------------------------|------------------------------------|
| ⊗ AUTOMATIC SPRINKLER RISER | +12" 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 | — AUX DRAIN |
| — GRVD COUPLING | — REVISION NOTATION |
| ⊕ TYPICAL POINT OF CONNECTION (POC) | — LOCAL ALARM |



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CITY OF RENO APPROVAL

CITY OF RENO MULTI-DIVISIONAL APPROVAL BOX

PROJECT NAME: FIRE SPRINKLER PLANS FOR
PEEK RESIDENCE
2464 LAKE RIDGE SHORES E
RENO, NV 88519

DRAWING TITLE:
FIRE SPRINKLER PLAN

SCALE: 1/8"=1'-0" JOB NO.:
DWG NO.:
FP-2

BORN ON DATE: 10/13/2023 SHEET 2 OF 2