

THIS RESIDENTIAL SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED AS PER NFPA 13D OR THE CALIFORNIA RESIDENTIAL CODE AND VENTURA COUNTY FIRE CODE.

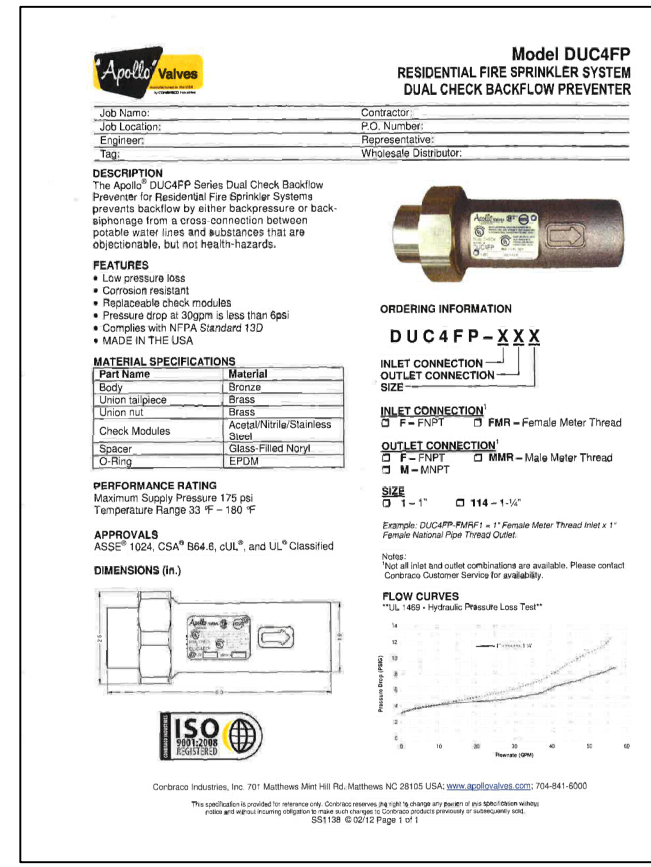
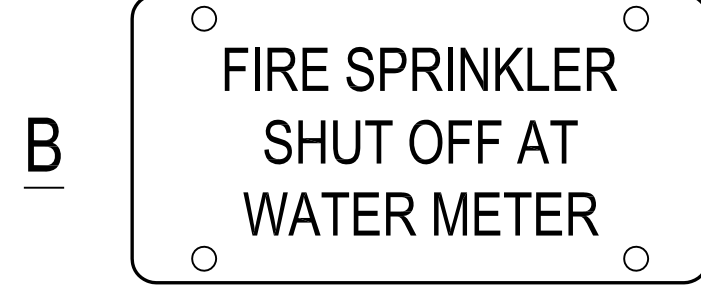
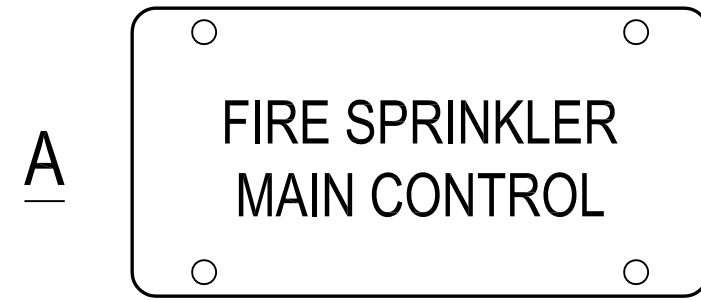
THE OVERHEAD SYSTEM SHALL BE INSPECTED AT THE FOLLOWING STAGES:
 - ROUGH / HYDRO.
 - BUCKET TEST.
 - FINAL.

DEDICATED FIRELINE UNDERGROUND MAINS AND LEAD-IN CONNECTIONS SHALL BE INSPECTED AT THE ROUGH / HYDRO STAGE AND FLUSHED IN THE PRESENCE OF A VCFD FIRE INSPECTOR BEFORE CONNECTION IS MADE TO OVERHEAD SPRINKLER PIPING. CALL ONE WORKING DAY IN ADVANCE TO SCHEDULE ALL INSPECTIONS.

PASSIVE PURGE SYSTEMS NOT ALLOWED IN VCFD JURISDICTION.

NO SPRINKLER HEADS ABOVE ATTIC FAU UNIT.

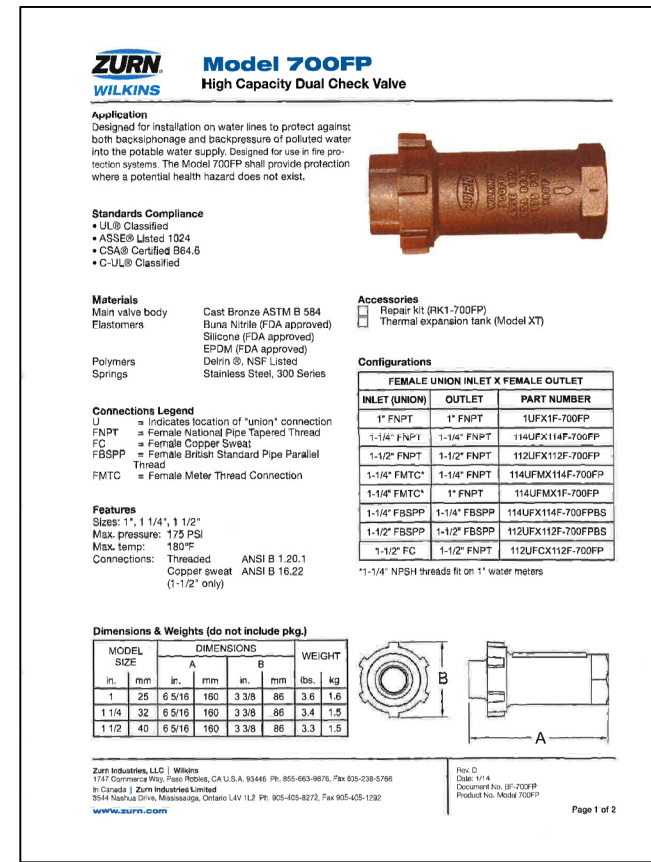
VCFD INSPECTION LINE: 805.389.9744



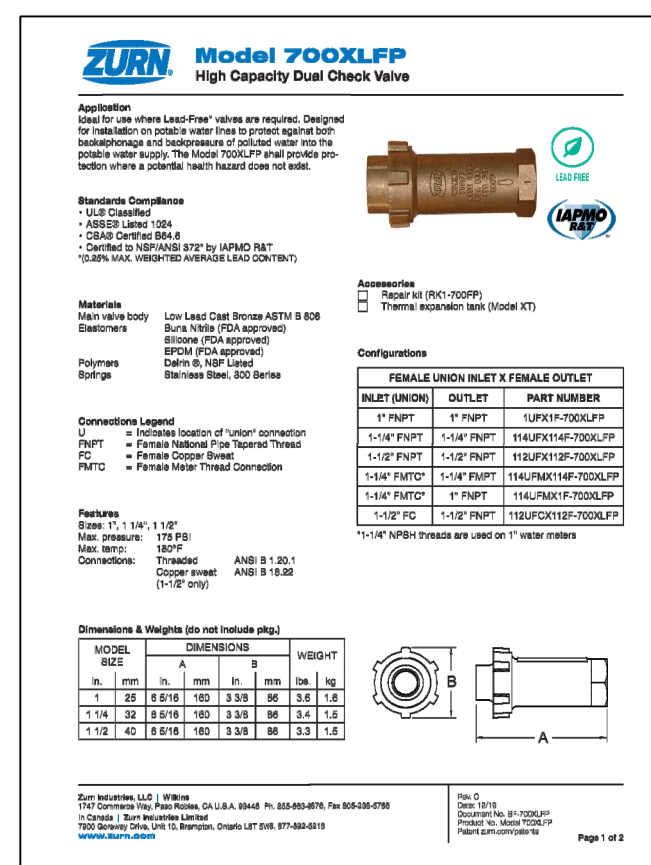
APOLLO: DUC4FP



WATTS: LF07S

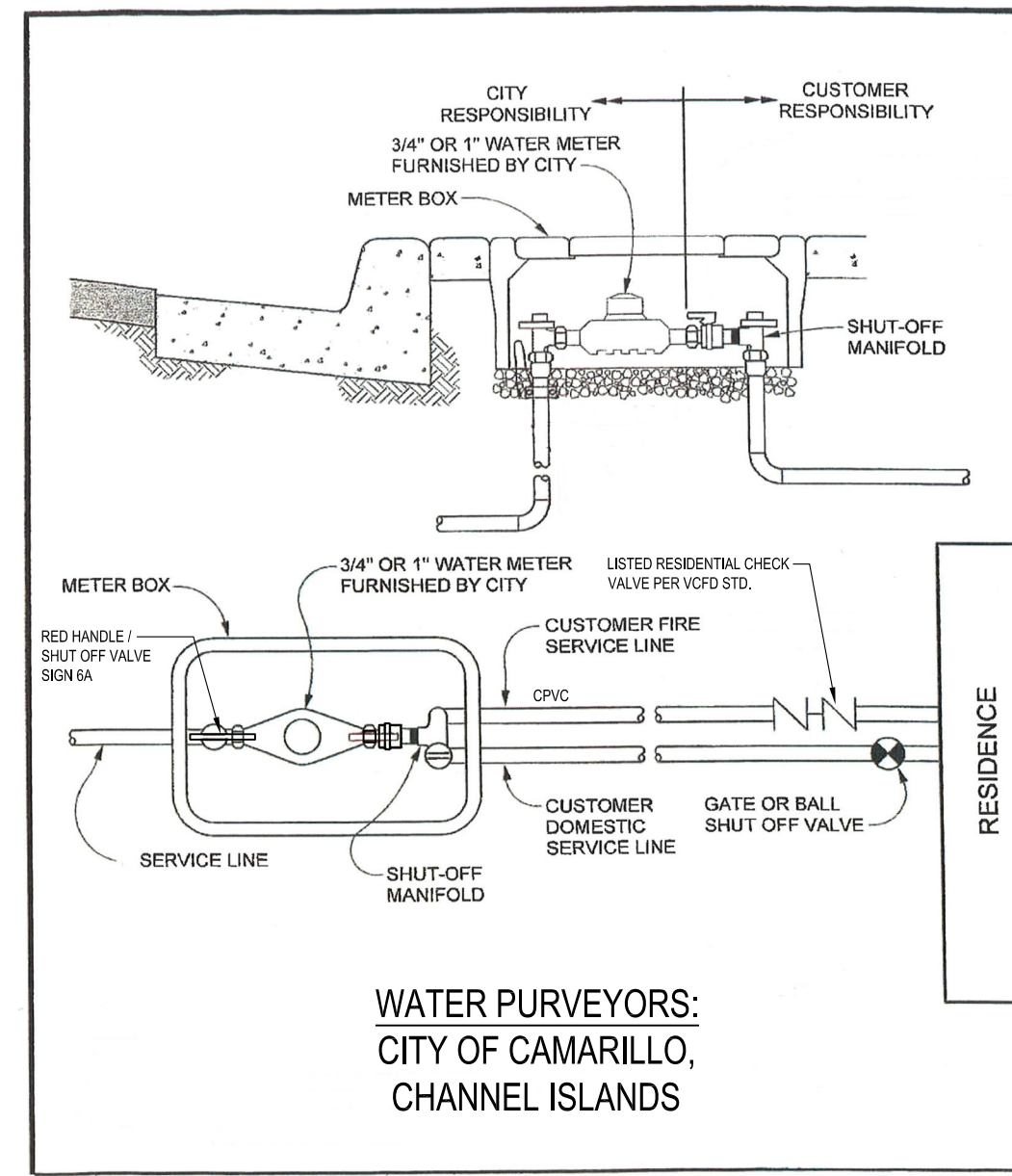


ZURN: 700FP



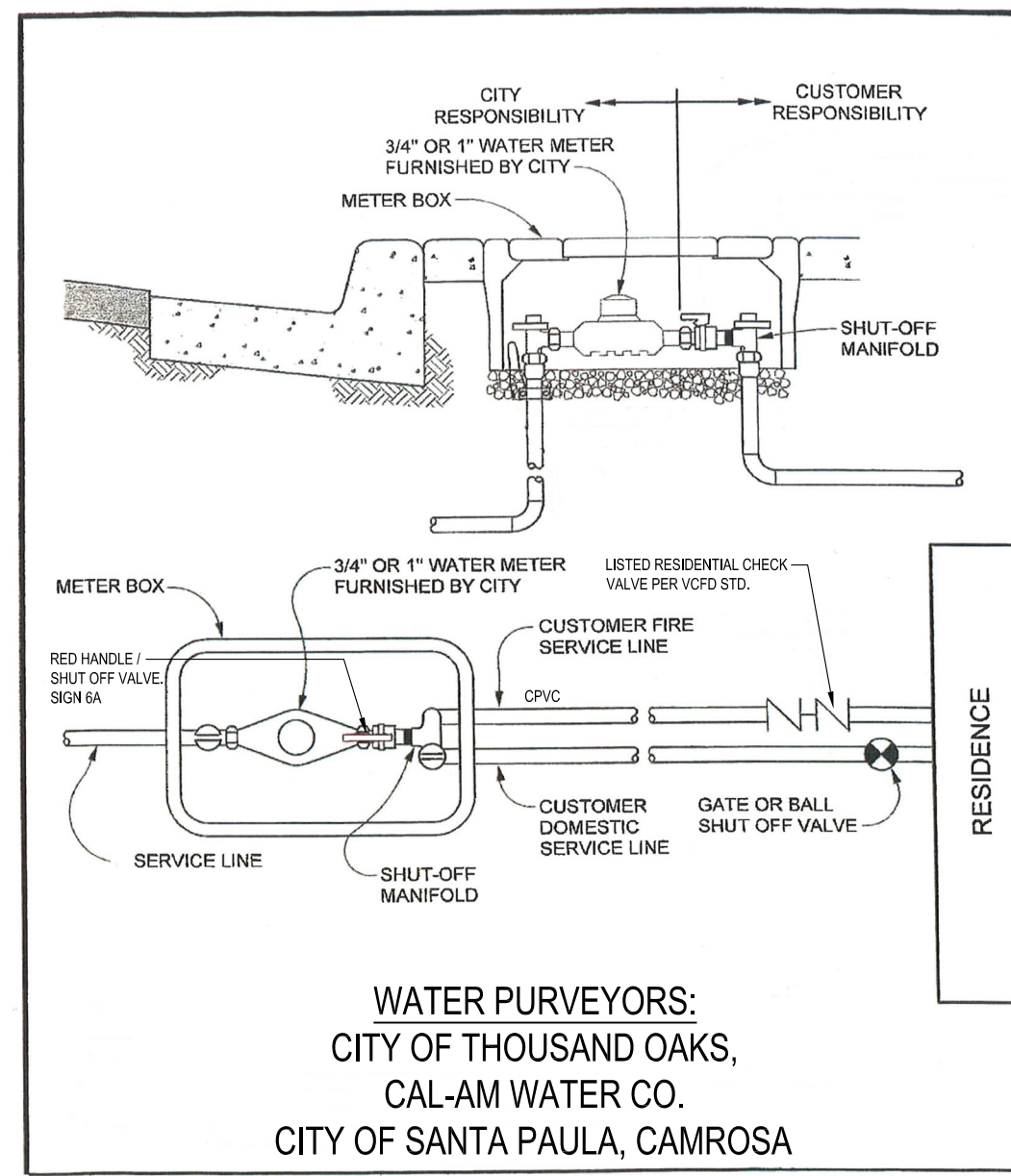
ZURN: 700XLP

A LISTED RESIDENTIAL CHECK VALVE SHALL BE INSTALLED ON THE SYSTEM SIDE OF THE MAIN CONTROL VALVE.



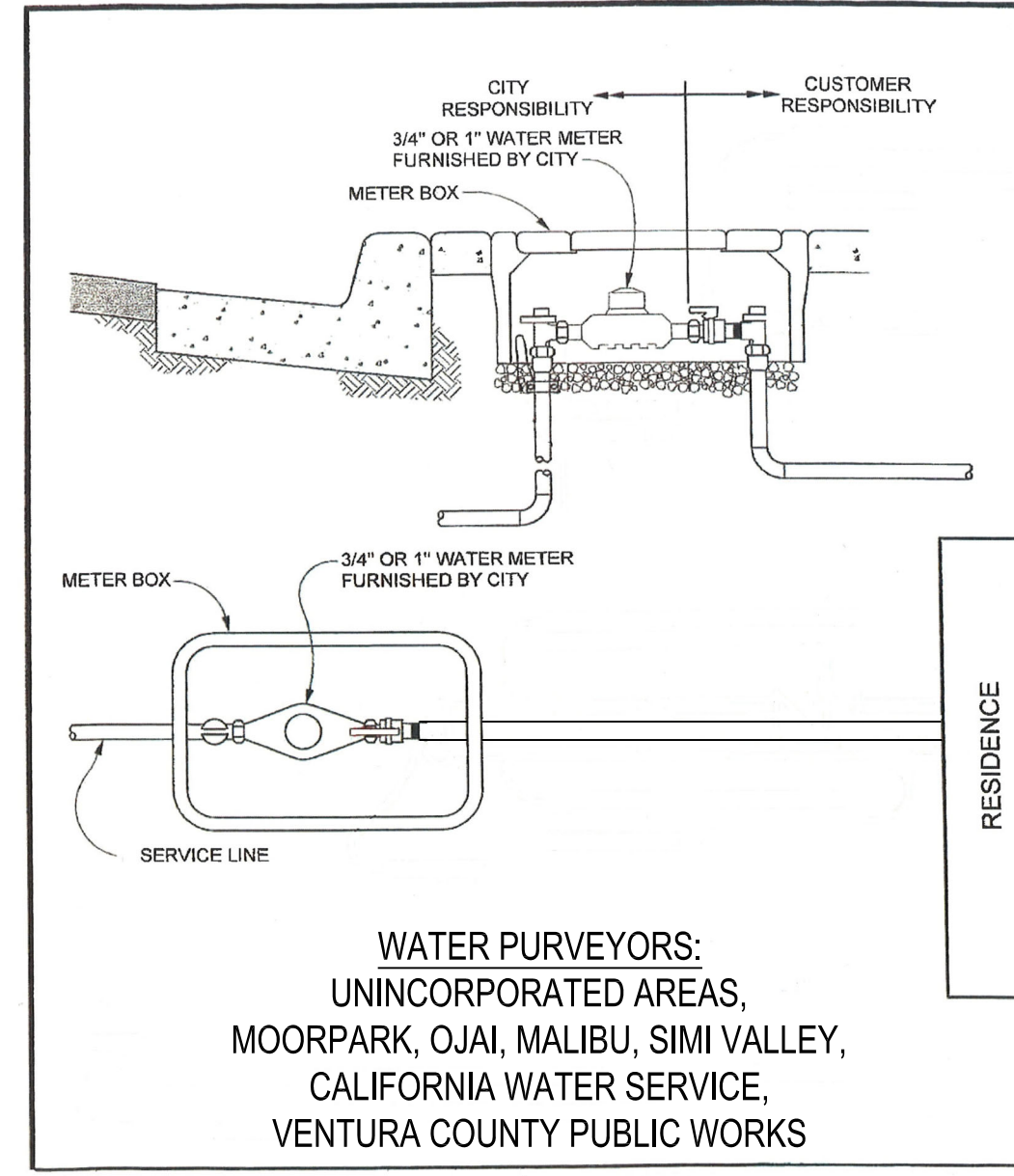
WATER PURVEYORS:
CITY OF CAMARILLO,
CHANNEL ISLANDS

3 FIRE SPRINKLER UNDERGROUND



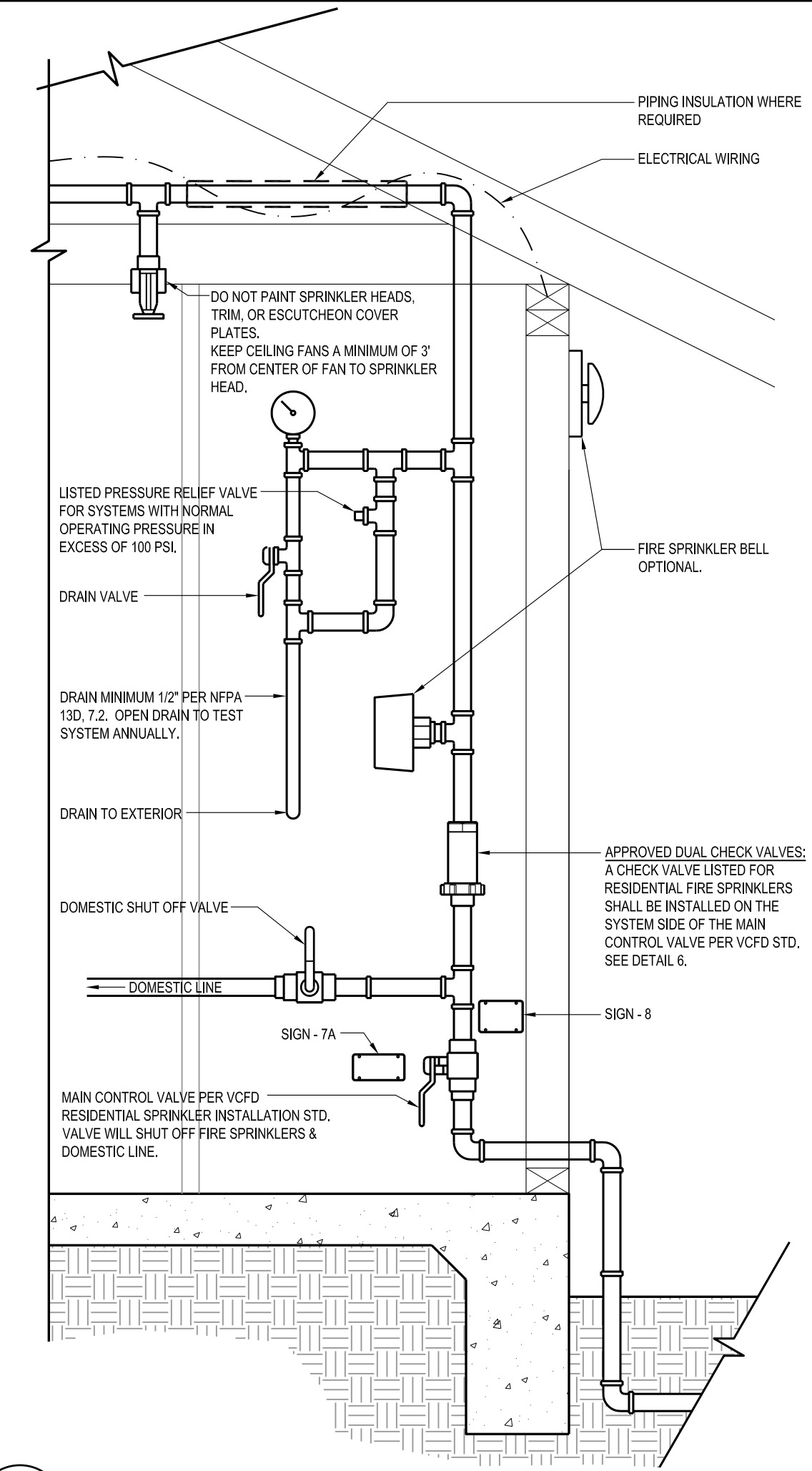
WATER PURVEYORS:
CITY OF THOUSAND OAKS,
CAL-AM WATER CO.
CITY OF SANTA PAULA, CAMROSA

4 FIRE SPRINKLER UNDERGROUND

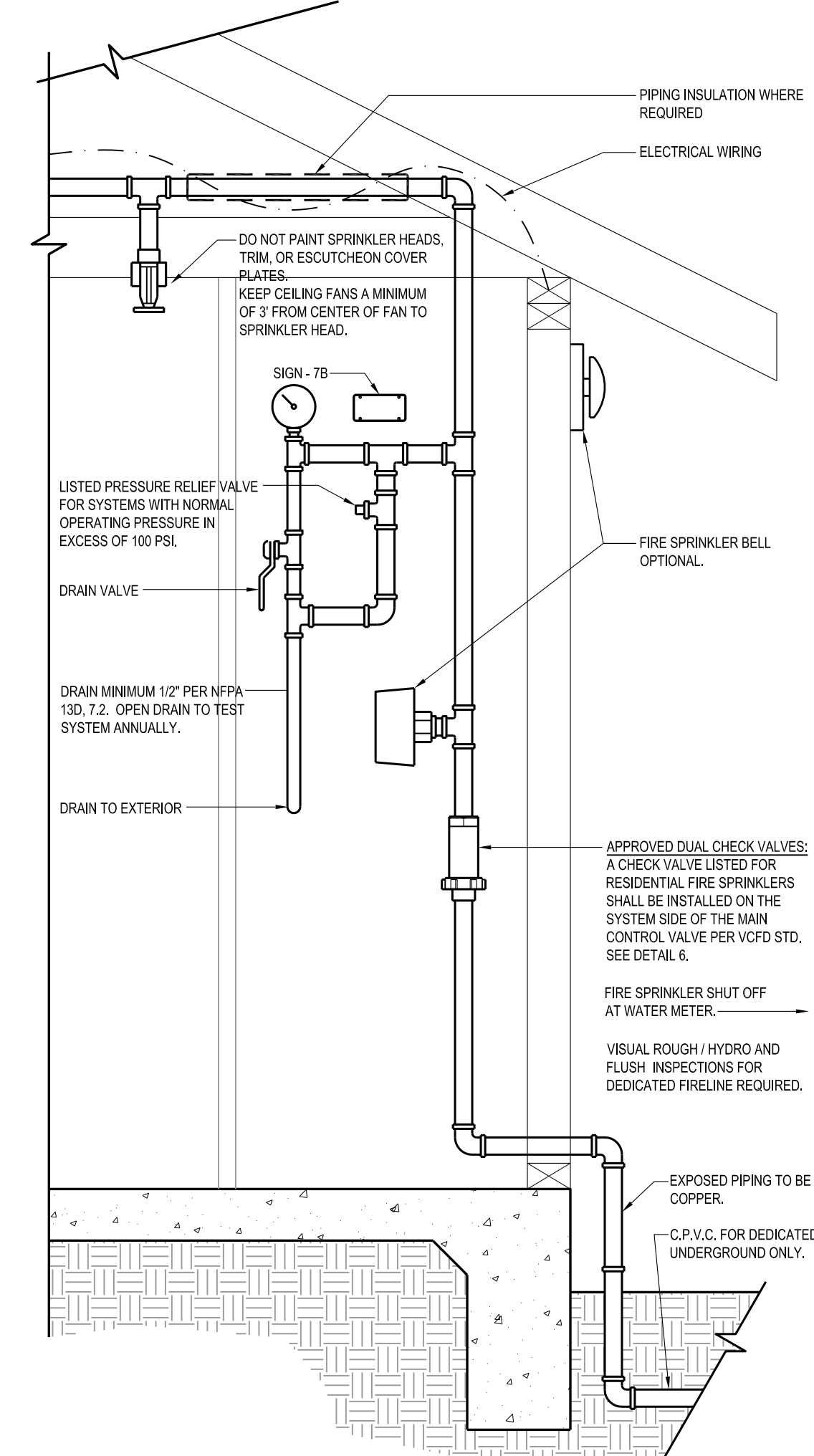


WATER PURVEYORS:
UNINCORPORATED AREAS,
MOORPARK, OJAI, MALIBU, SIMI VALLEY,
CALIFORNIA WATER SERVICE,
VENTURA COUNTY PUBLIC WORKS

5 FIRE SPRINKLER UNDERGROUND



1 FIRE SPRINKLER & DOMESTIC RISER



2 FIRE SPRINKLER W/ DEDICATED UNDERGROUND



THIS DOCUMENT PROVIDED TO THE CONTRACTOR AND HOMEOWNER BY VENTURA COUNTY FIRE DEPT. FOR MORE INFORMATION GO TO VCFD.ORG.

C-16 STAMP

C-16 CONTRACTOR:

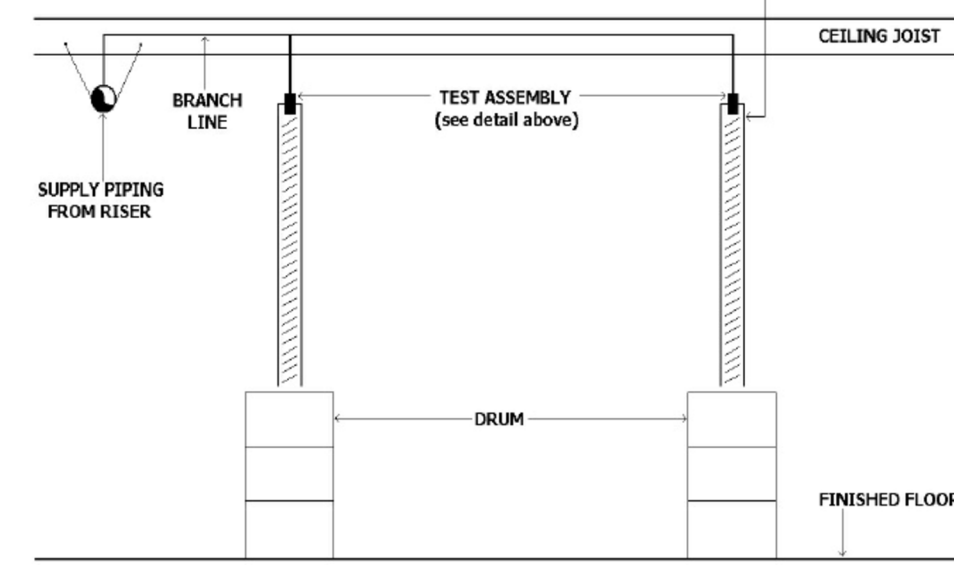
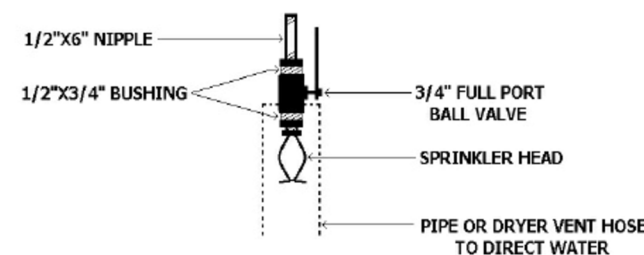
PROJECT ADDRESS:

VCFD RECORD NUMBER:

VCFD
RESIDENTIAL
SPRINKLER STD.
OVER THE
COUNTER

Updated: 8/28/2023

10 VCFD INSPECTIONS & GENERAL NOTES



11 BUCKET TEST SET UP

WATER SUPPLY INFORMATION

NAME OF WATER PURVEYOR: _____
 WATER METER SIZE: _____ (IN.)

RESIDENTIAL SPRINKLER INFORMATION

MANUFACTURER AND MODEL: _____
 TEMPERATURE: _____ (°F)
 ORIFICE SIZE: _____ (K FACTOR)
 MAX. COVERAGE AREA PER SPRINKLER: _____ (FT. x FT.)

PIPING INFORMATION

MATERIAL (OVERHEAD): _____
 MATERIAL (UNDERGROUND): _____

*NO GALVANIZED OR STEEL PIPE ALLOWED IN VENTURA COUNTY FIRE JURISDICTION FOR 13D SYSTEMS.

HYDRAULICALLY MOST DEMANDING AREA

MINIMUM FLOW RATE FOR A SINGLE SPRINKLER: _____ (GPM)
 ARE THERE ANY AREAS WHERE IT DOES NOT MEET ONE OF THE CONDITIONS OF 10.2.1? YES _____ NO _____
 IF YES, ARE RESIDENTIAL SPRINKLERS LISTED FOR USE IN SPECIFIC CEILING CONFIGURATIONS BEING USED IN ACCORDANCE WITH THEIR LISTING?
 YES _____ NO _____
 IF NO, THE NUMBER OF SPRINKLERS IN THE DESIGN AREA SHALL BE THREE.
 CONTRACTOR TO SUBMIT PLANS FOR DESIGNS OUTSIDE OF 10.2.1 CRITERIA.

12 SYSTEM DESIGN

7 SIGN AT SINGLE CONTROL VALVE

WARNING: THE WATER SYSTEM FOR THIS HOME SUPPLIES FIRE SPRINKLERS THAT REQUIRE CERTAIN FLOWS AND PRESSURES TO FIGHT A FIRE. DEVICES THAT RESTRICT THE FLOW OR DECREASE THE PRESSURE OR AUTOMATICALLY SHUT OFF THE WATER TO THE FIRE SPRINKLER SYSTEM, SUCH AS WATER SOFTENERS, FILTRATION SYSTEMS, AND AUTOMATIC SHUTOFF VALVES, SHALL NOT BE ADDED TO THIS SYSTEM WITHOUT A REVIEW OF THE FIRE SPRINKLER SYSTEM BY A FIRE PROTECTION SPECIALIST. DO NOT REMOVE THIS SIGN.

* PLACE SIGN AT DOMESTIC / FIRE SPRINKLER SHARED SYSTEMS ONLY.

8 WARNING SIGN

NUMBER OF DESIGN SPRINKLERS:

10.2.1. FOR EACH OF THE FOLLOWING SITUATIONS, THE NUMBER OF SPRINKLERS IN THE DESIGN AREA SHALL BE ALL OF THE SPRINKLERS WITHIN A COMPARTMENT, UP TO A MAXIMUM OF TWO SPRINKLERS, THAT REQUIRE THE GREATEST HYDRAULIC DEMAND:

- 1) A FLAT, SMOOTH, HORIZONTAL CEILING WITH NO BEAMS UP TO A MAXIMUM OF 24 FT. (7.3 M) ABOVE THE FLOOR.
- 2) A FLAT, SMOOTH, HORIZONTAL CEILING, WITH A MAXIMUM CEILING HEIGHT OF 24 FT. (7.3M), WITH BEAMS UP TO 14 IN. (350 MM) DEEP WITH PENDENT SPRINKLERS UNDER THE BEAMS. THE COMPARTMENT CONTAINING THE BEAMED CEILING SHALL BE A MAXIMUM OF 600 SQ. FT. IN AREA. THE HIGHEST SPRINKLER IN THE COMPARTMENT SHALL BE ABOVE ALL OPENINGS FROM THE COMPARTMENT INTO ANY COMMUNICATING SPACES.
- 3) A SMOOTH, FLAT, SLOPED CEILING WITH NO BEAMS UP TO A MAXIMUM SLOPE OF 8 IN 12. THE HIGHEST PORTION OF THE CEILING SHALL NOT BE MORE THAN 24 FT. (7.3 M) ABOVE THE FLOOR. THE HIGHEST SPRINKLER IN THE SLOPED PORTION OF THE CEILING SHALL BE ABOVE ALL OPENINGS FROM THE COMPARTMENT CONTAINING THE SLOPED CEILING INTO ANY COMMUNICATING SPACES.
- 4) A SLOPED CEILING WITH BEAMS UP TO 14 IN. (350 MM) DEEP WITH PENDENT SPRINKLERS UNDER THE BEAMS. THE COMPARTMENT CONTAINING THE SLOPED, BEAMED CEILING SHALL BE A MAXIMUM OF 600 SQ. FT. IN AREA. THE SLOPE OF THE CEILING SHALL BE BETWEEN 2 IN 12 AND 8 IN 12. THE HIGHEST PORTION OF THE CEILING SHALL NOT BE MORE THAN 24 FT. (7.3 M) ABOVE THE FLOOR. THE HIGHEST SPRINKLER IN THE SLOPED PORTION OF THE CEILING SHALL BE ABOVE ALL OPENINGS FROM THE COMPARTMENT CONTAINING THE SLOPED CEILING INTO ANY COMMUNICATING SPACES.
- 5) A SLOPED CEILING WITH BEAMS OF ANY DEPTH WITH SIDEWALL OR PENDENT SPRINKLERS IN EACH POCKET FORMED BY THE BEAMS. THE COMPARTMENT CONTAINING THE SLOPED, BEAMED CEILING SHALL BE A MAXIMUM OF 600 SQ. FT. IN AREA. THE SLOPE OF THE CEILING SHALL BE BETWEEN 2 IN 12 AND 8 IN 12. THE HIGHEST PORTION OF THE CEILING SHALL NOT BE MORE THAN 24 FT. ABOVE THE FLOOR.

10.2.2. LISTED FLOWS ASSOCIATED WITH TESTING UNDER A SMOOTH, FLAT, HORIZONTAL 8 FT. (2.4 M) HIGH CEILING SHALL BE PERMITTED TO BE USED FOR THE CEILING CONFIGURATIONS REFERENCED IN 10.2.1.

10.2.3. FOR SITUATIONS NOT MEETING ONE OF THE CONDITIONS IN 10.2.1, RESIDENTIAL SPRINKLERS LISTED FOR USE IN SPECIFIC CEILING CONFIGURATIONS SHALL BE PERMITTED TO BE USED IN ACCORDANCE WITH THEIR LISTING.

10.2.4. FOR SITUATIONS NOT MEETING ONE OF THE CONDITIONS IN 10.2.1 AND 10.2.3, THE NUMBER OF SPRINKLERS IN THE DESIGN AREA SHALL BE NOT LESS THAN (3) SPRINKLER HEADS, OR DETERMINED IN CONSULTATION WITH THE AUTHORITY HAVING JURISDICTION AS APPROPRIATE FOR THE CONDITIONS.

9 NFPA 13D

6 LISTED & APPROVED CHECK VALVES

5 FIRE SPRINKLER UNDERGROUND

2 FIRE SPRINKLER W/ DEDICATED UNDERGROUND