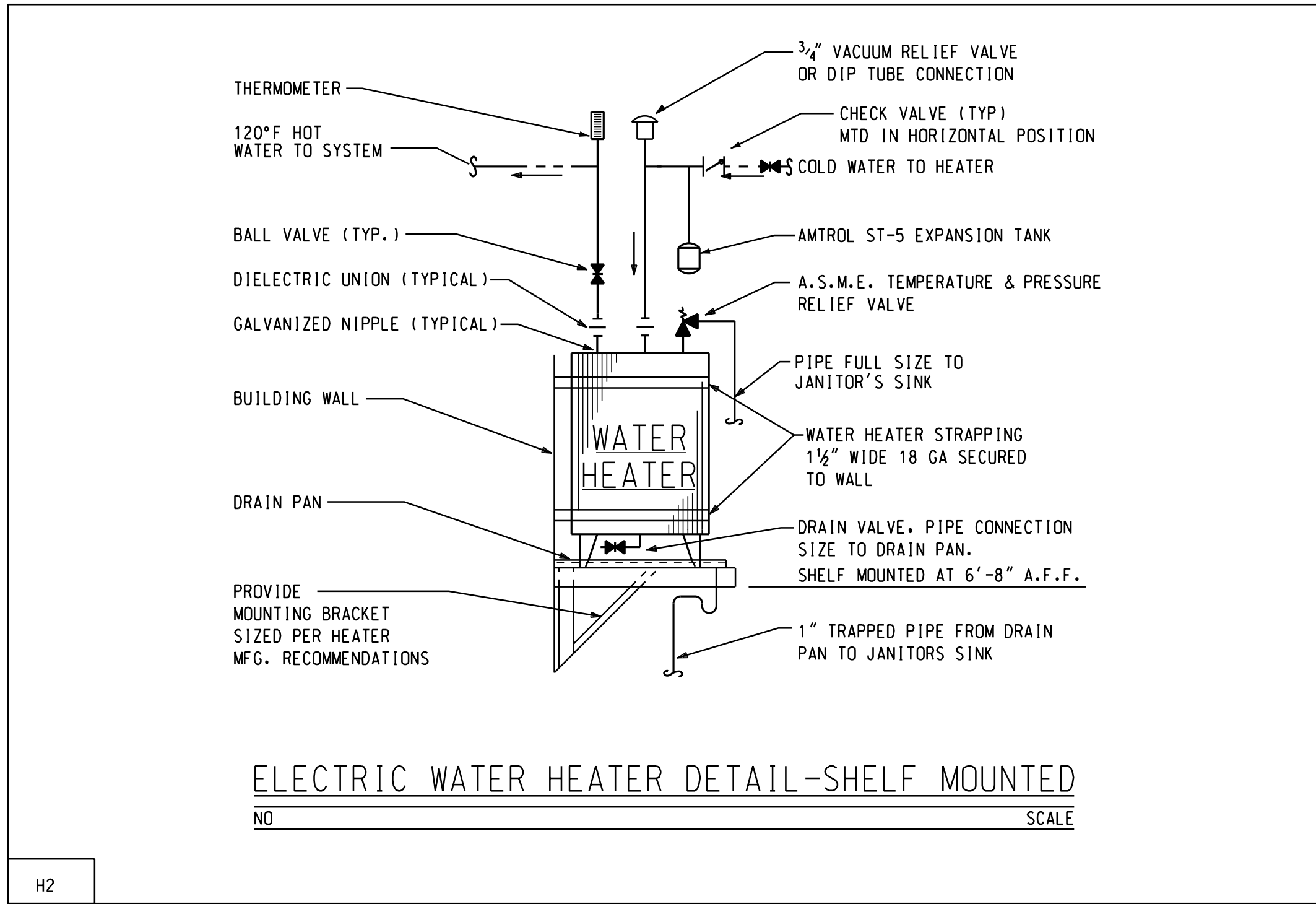


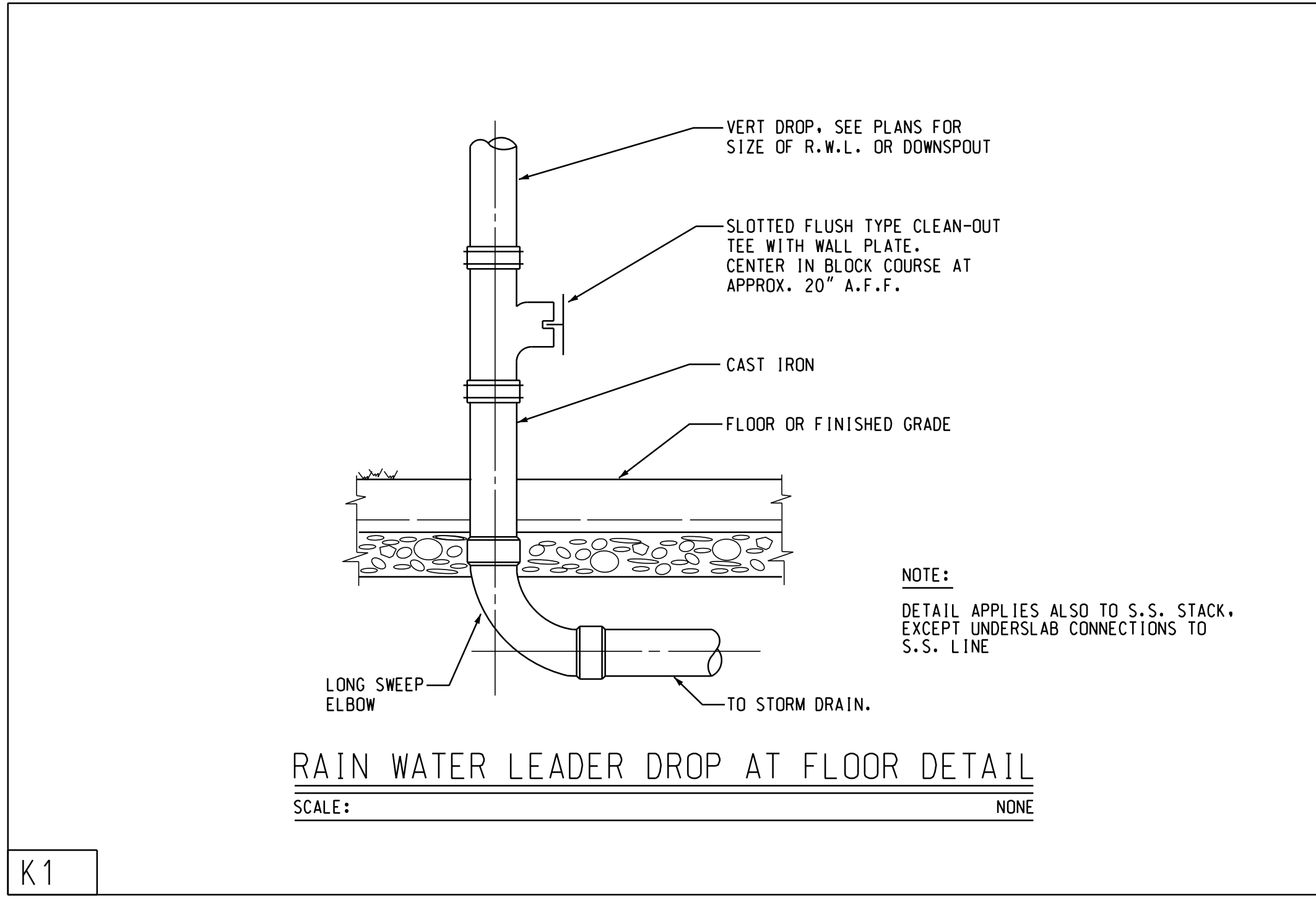
CA (2019) 19204 - PHD Founder's Square (CA) 19204 (Rev. 03.11.20) 12:29:52 PM

80.0' / in. since

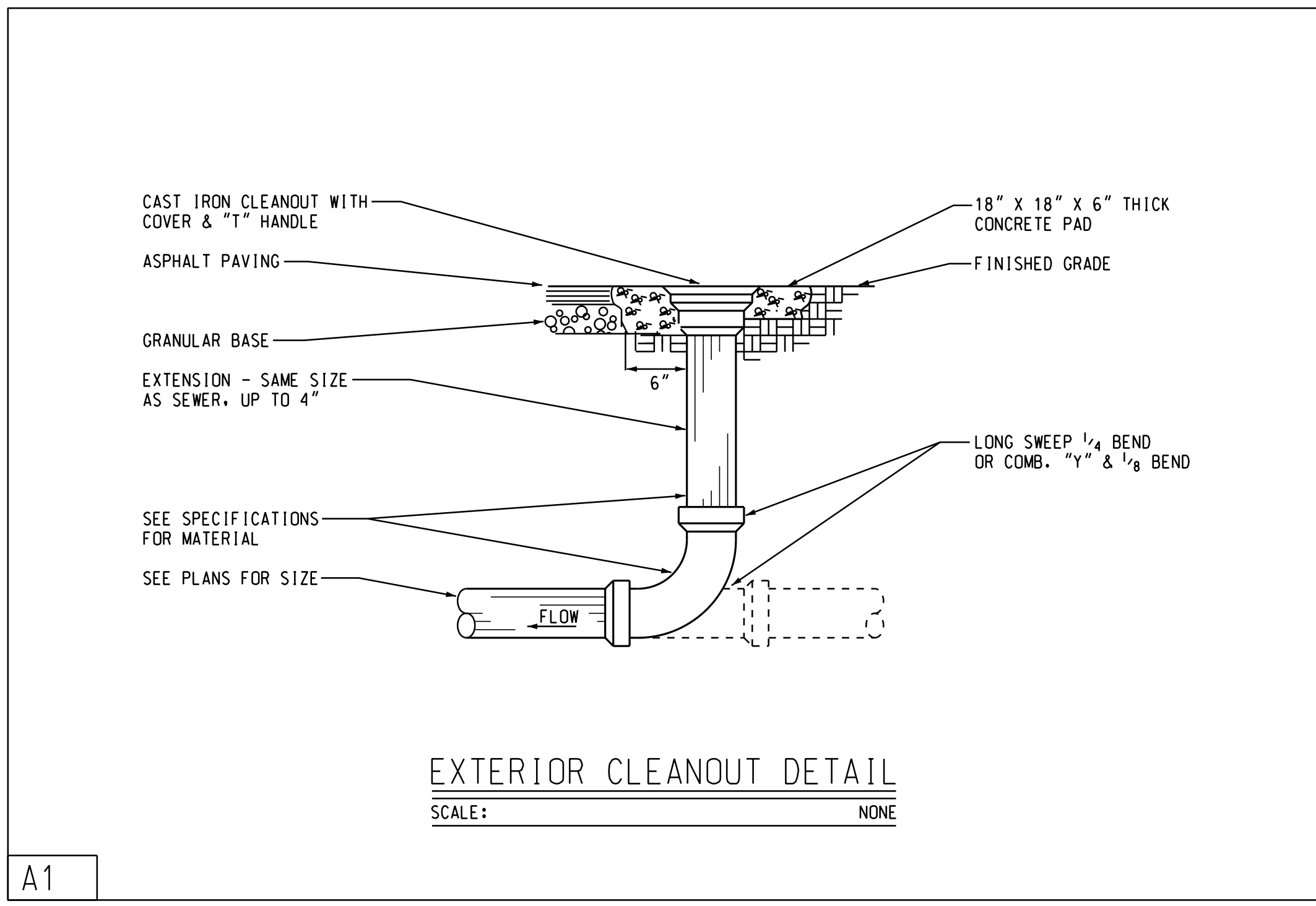
ELECTRIC WATER HEATER SCHEDULE										
DESIGNATION	K.W.	VOLTAGE	NO. OF ELEMENTS	TEMP. RISE	RECOVERY G.P.H.	STORAGE CAP. (GAL.)	TANK DIA.	TANK HEIGHT	MANUFACTURER	MODEL NUMBER
WH-1	3	208/1/60	1	90°	12	10	16"	18"	LOCHINVAR	JRJ-010-DS
WH-2	3	208/1/60	1	90°	12	10	16"	18"	LOCHINVAR	JRJ-010-DS



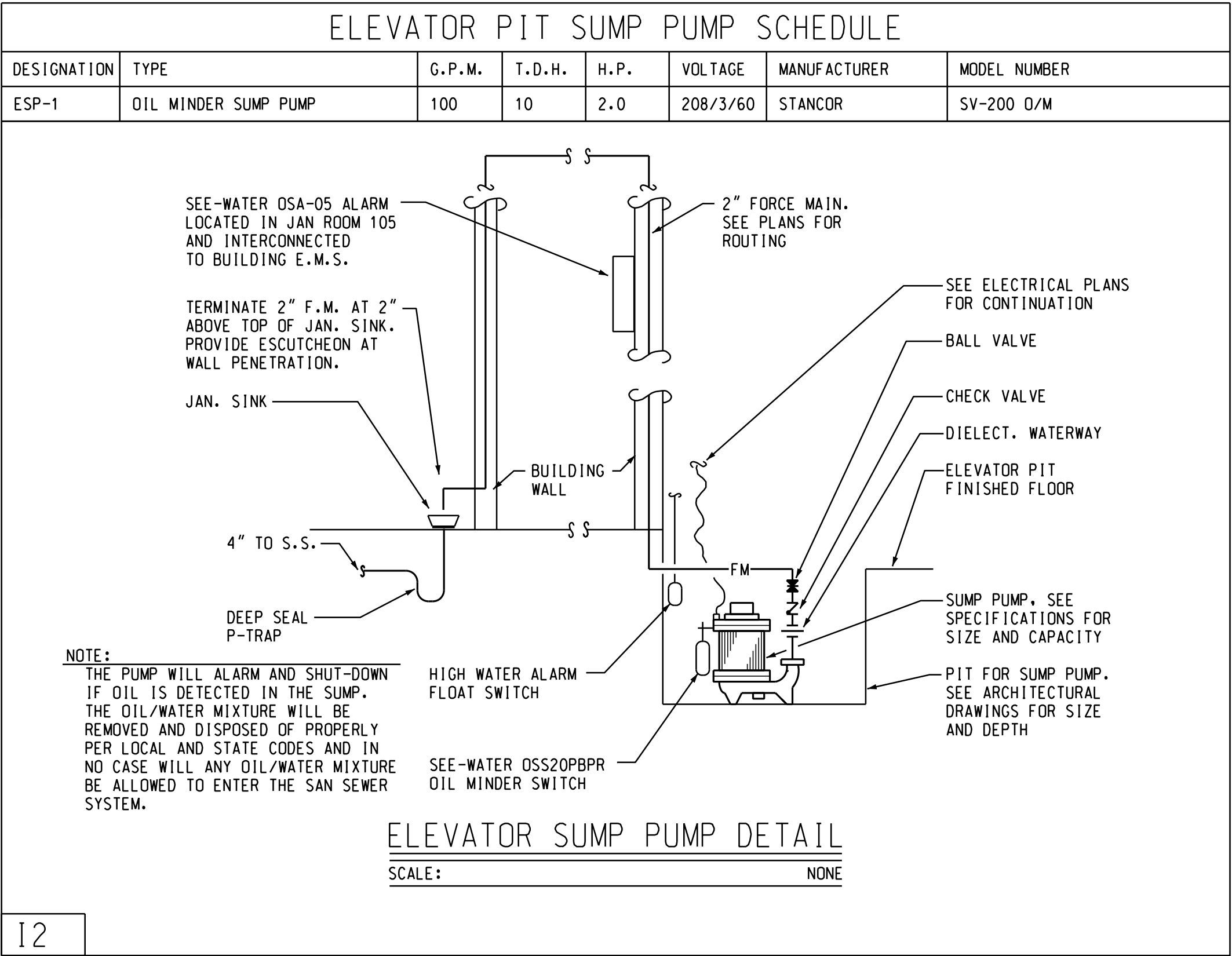
H2



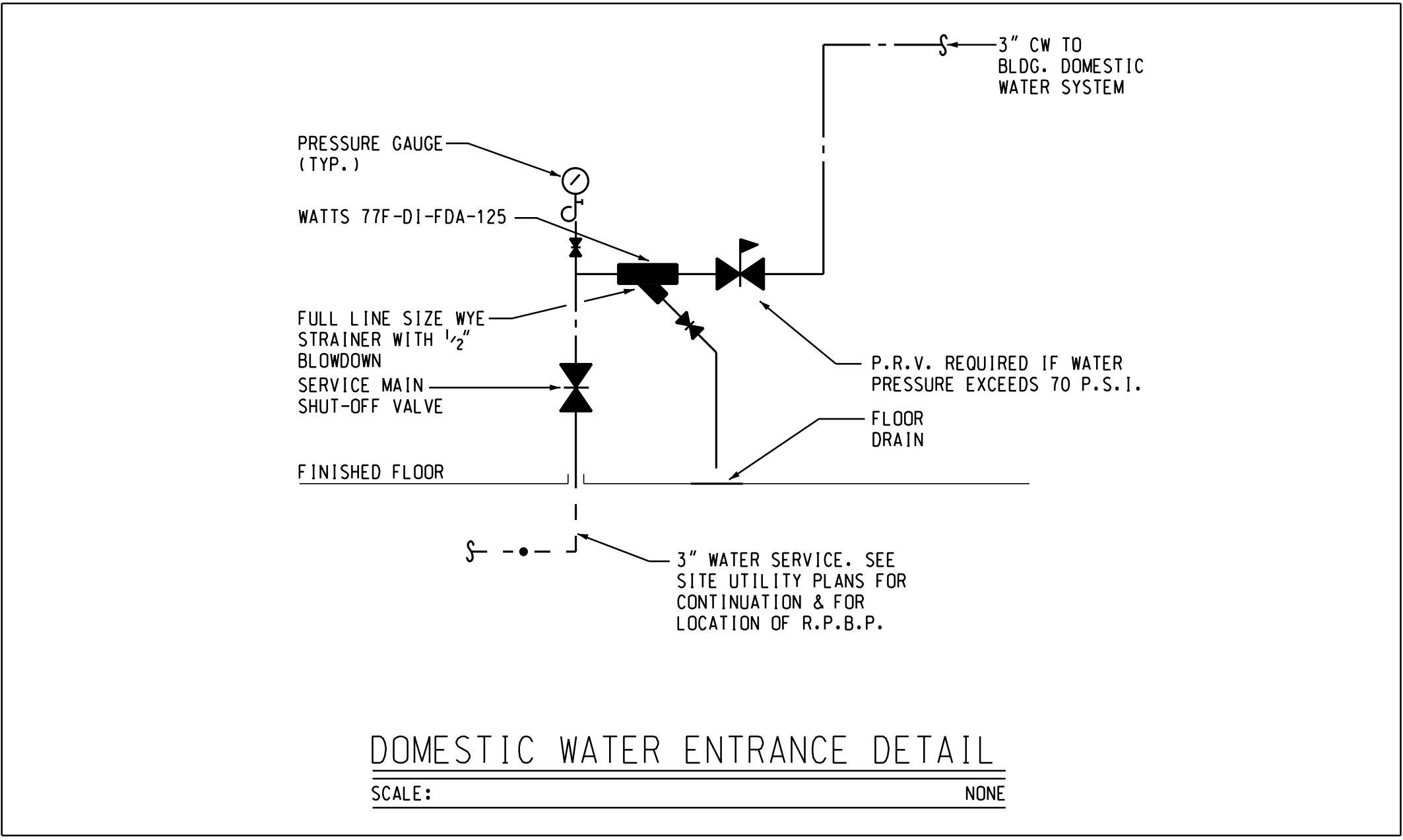
K1



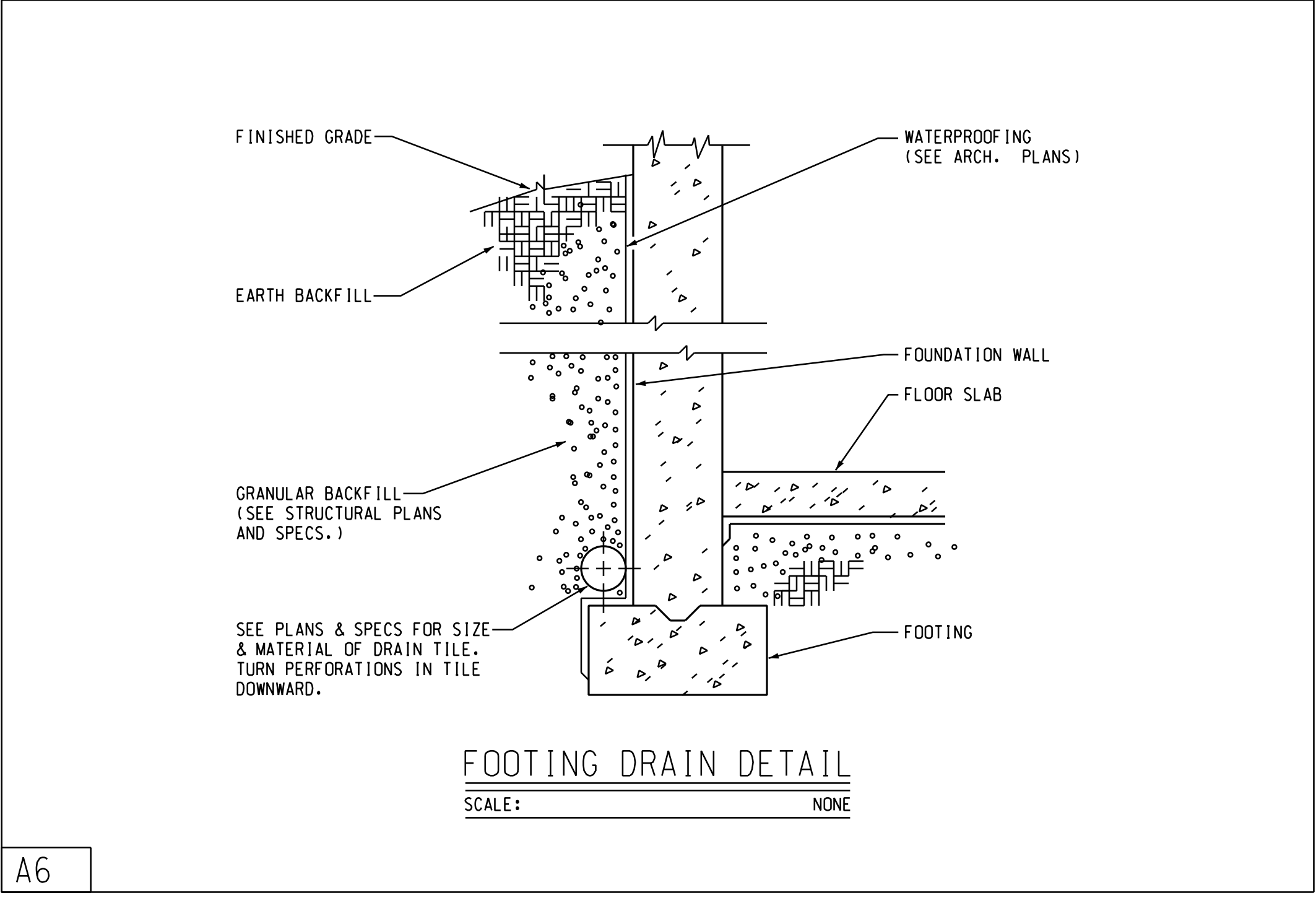
A1



12



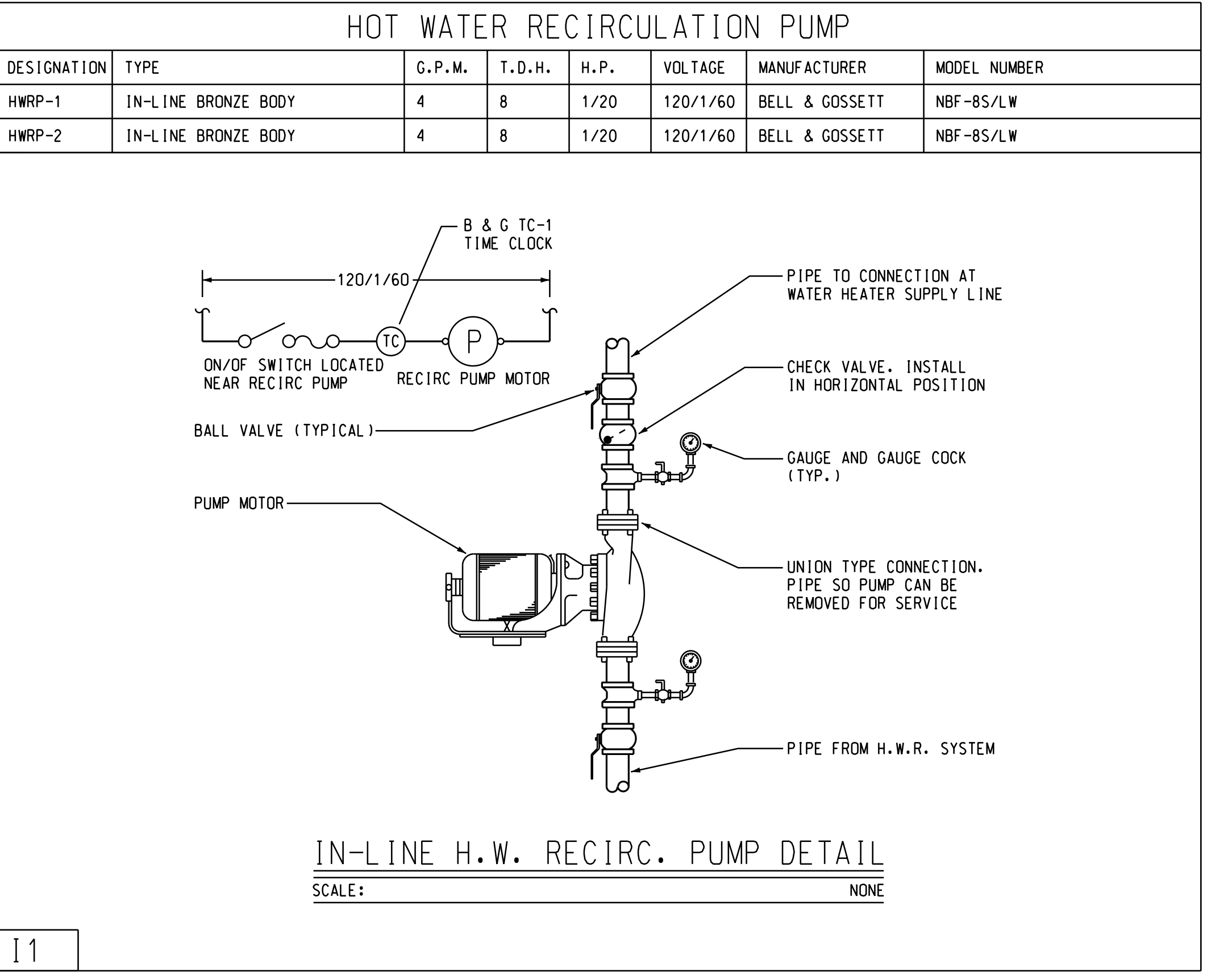
A6



FIXTURE CONNECTION SCHEDULE					
P-#	DESCRIPTION	C.W. (IN.)	H.W. (IN.)	WASTE (IN.)	VENT (IN.)
P1	H'CAP WATER, CLOSET (FLR.MTD.-F.V.) AMERICAN STANDARD 3461.660 16-5" HGT. WATER CLOSET CHURCH 9500SSCT SEAT w/CHECK HINGE SLOAN ROYAL 111 FLUSH VALVE, 1.6 GPF	1	---	4	2
P2	LAVATORY (WALL HUNG) AMERICAN STANDARD 0355.012 LAVATORY SYMMONS S-20 SINGLE LEVER FAUCET McGUIRE 155WC OFF-SET GRID STRAINER w/TAIL PIECE McGUIRE 8872 17 GA. CAST BRASS P-TRAP McGUIRE 170LK SUPPLY/STOP ZURN Z1231 LAVATORY CARRIER	1/2	1/2	1 1/4	1 1/4
P3	BI-LEVEL WALL HUNG DRINKING FOUNTAIN w/BOTTLE FILL OASIS POSBFSLS-SS BI-LEVEL D.F. w/S.S. FINISH McGUIRE 8872 17 GA. CAST BRASS P-TRAP McGUIRE 170LK SUPPLY/STOP	1/2	---	1 1/4	1 1/4
P4	JANITOR'S SINK (CORNER - FLOOR BASIN) STERN WILLIAMS SBC-1502-BP2 24 x 24 x 12 CORNER FLOOR SINK ZURN Z-843MIRE WALL FAUCET w/W.B. & V.B. HOSE CLAMP HANGER MOP HANGER	1/2	1/2	3	2
P5	FLOOR DRAIN (FINISHED AREA) ZURN ZN-415-Y-B-P CAST IRON BODY FLOOR DRAIN	1/2 TO T.P.	---	AS SHOWN	AS SHOWN
P6	TRAP PRIMER VALVE w/V.B. PRECISION PLUMBING PRODUCTS, INC. MODEL "PRIME-RITE" w/INTEGRAL V.B..	1/2 TO F.D.	---	---	---
P7	ZURN Z-1321 EXPOSED, NON-FREEZE ANTI-SIPHON, AUTOMATIC DRAINING WALL HYDRANT	3/4	---	---	---
P8	ROOF DRAIN ZURN ZC-100-C-EA-R CAST IRON BODY w/CAST IRON DOME	---	---	AS SHOWN	---
P9	ROOF HYDRANT WOODFORD RHY1	1	---	---	---

NOTE:
1. PROVIDE WILKINS ZW3870XLT-4P THERMOSTATIC MIXING VALVE AT EACH HAND WASH LAVATORY OR SINK.

PLUMBING LEGEND		
SYMBOL	DESCRIPTION	ABBREVIATIONS
●	COLD WATER (UNDERGROUND)	
—	COLD WATER	C.W.
—	HOT WATER (TEMPERATURE, IF MORE THAN ONE)	H.W.
---SS---	SANITARY SEWER (UNDERSLAB)	
---V---	VENT	V
---O.V.T.R.---	VENT THROUGH THE ROOF	V.T.R.
---SD---	STORM DRAIN (UNDERSLAB)	S.D.
—RWL—	RAIN WATER LEADER	R.W.L.
—FM—	FORCE MAIN	F.M.
—A/S—	AUTOMATIC SPRINKLER	A/S
□ P-1	FIXTURE IDENTIFICATION (SEE SPECIFICATIONS)	
—(Φ)—	VALVES (SEE SPECIFICATIONS FOR TYPE)	
—▲—	AUTOMATIC SPRINKLER ENTRANCE	



11



61G15-32.003 (1) (2) (5):

(1) Scope of work:

A new wet fire sprinkler system is to be installed in the new two (2) story shell office building.

(2) Acceptance test criteria:

The acceptance testing of the fire protection system and components shall consist of all applicable items shown on these two forms: NFPA 13, 2013 Edition, Figure 24.1, Contractor's Material and Test Certificate for Above Ground; and Figure 10.10.1, Contractor's Material and Test Certificate for Underground Piping. See NFPA 13, 2013 Edition, System acceptance, and Chapter 10 Section 10.10, Testing and Acceptance, for details on the applicable tests.

(5) Structural support required by the automatic fire sprinkler system:

The support systems for this building and fire sprinkler system are all new and detailed in the project specifications. The structural engineer of record for the building addressed all structural considerations with regards to the fire sprinkler system at the time of design. There are no significant structural openings that will be required for the new sprinkler system.

61G15-32.004 (2) (a-i):

(a) Point of service:

The point of service shall be the new 6" underground fire line. See civil site plan for exact location.

(b) Applicable NFPA Standard:

The installation shall be in accordance with:
NFPA-13, 2013 edition for fire sprinkler systems in commercial occupancies.

(c) Classification of Hazard Occupancy:

Light Hazard within office, lobby, and bathrooms in accordance with NFPA 13.

Ordinary Hazard Group 1 in Service and mechanical area in accordance with NFPA 13.

(d) Design approach:

Any new wet pipe automatic sprinkler system components - Ordinary temperature rated quick response sprinklers shall be used throughout.

NFPA 13 Light Hazard: 0.10 gpm/sq. ft. over most remote 1500 sq. ft. area - Maximum sprinkler coverage area shall be 225 sq. ft.; Area reduction allowed per 11.2.3.2.3.1 where permitted.

NFPA 13 Ordinary Hazard, Group, 1: Density 0.15 gpm/sq. ft. over most remote 1500 sq. ft. area. Maximum sprinkler coverage area shall be 130 sq. ft.; Area reduction allowed per 11.2.3.2.3.1 where permitted.

Sprinkler spacing, flow and pressure applications are to comply with manufacturer listing unless modified by NFPA 13.

(e) Characteristic of Water Supply:

Public water works supply main is existing. Duration and reliability is adequate for the most hydraulically demanding zone based on historical data and current flow test.

(f) Flow test data:

Date Tested: A flow test shall be performed prior to permit application and include the results with the fire sprinkler permit application.

Current Flow Test Information: 82 Psi static 70 Psi residual at 2196 gpm flow tested by Greater Naples Fire Rescue District 9/16/19.

(g) Valving and alarm requirements to minimize potential for impairments and underground flow of water:

Paddle type water flow indicator is indicated with outdoor electrically operated bell. Valves controlling sprinkler system, including backflow device will have tamper switches.

All electrical devices are monitored by central station as required by local authority having jurisdiction and shall be in compliance with NFPA 72.

(h) Microbial induced corrosion:

There are no known conditions that would indicate MIC is present in the water systems in Collier County.

(i) Backflow prevention and metering specifications:

The backflow prevention assembly and metering equipment is new and shall meet the requirements of the local water purveyor. The backflow prevention device pressure loss shall be included in calculations.

(j) Quality and performance specifications of yard and interior fire protection components:

All materials and equipment furnished shall be UL listed and/or FM approved for fire protection use where applicable per NFPA 13, 2010 edition.

(k) Fire pump requirements:

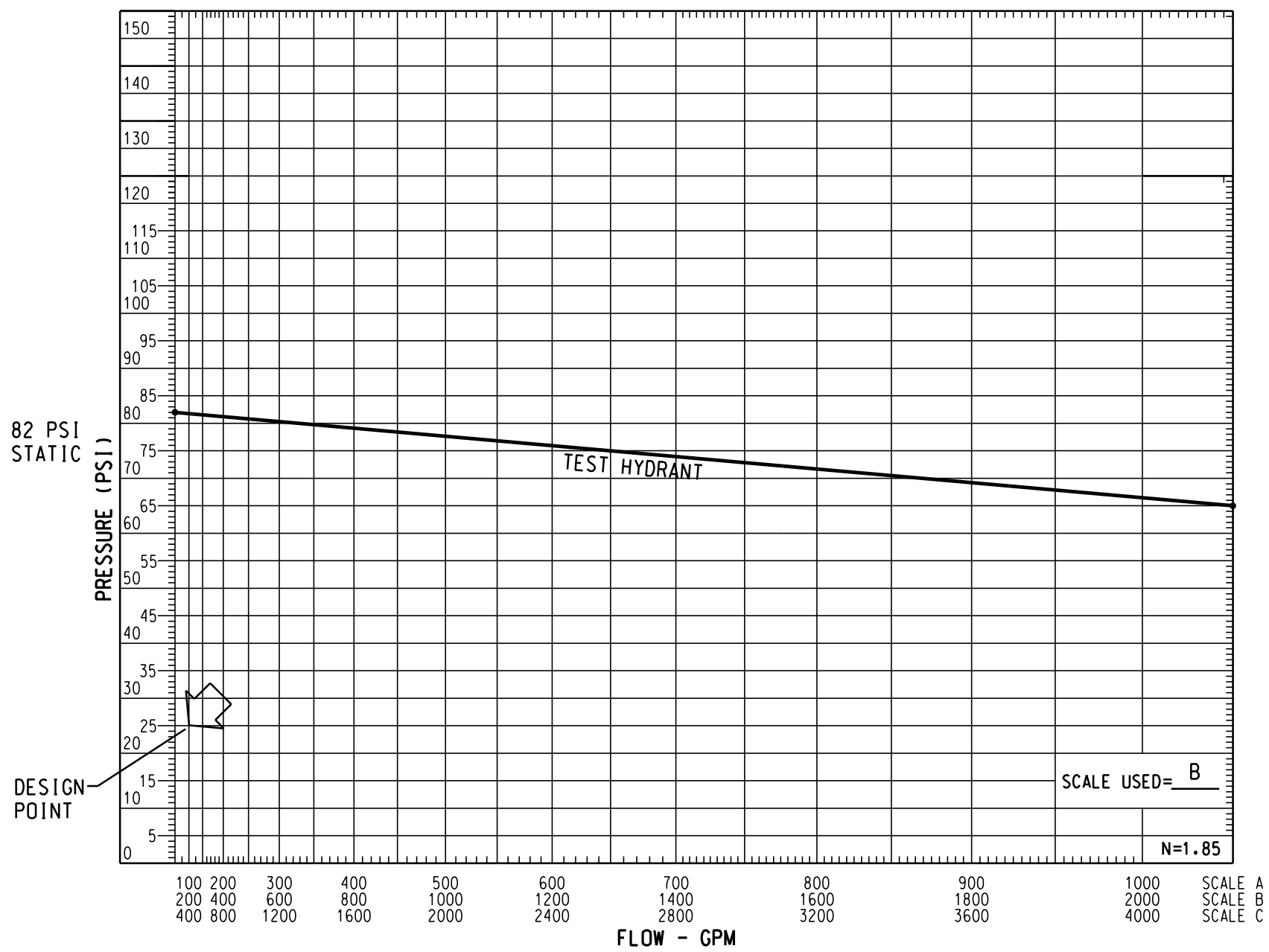
There is no fire pump based on preliminary calculations.

(l) Storage tank requirements:

There is no storage tank for this project.

(m) Owner's Certificate for storage occupancies:

This is not a storage facility.



FLOW TEST DATA:

15245 COLLIER BLVD.
82 PSI STATIC
70 PSI RESIDUAL @ 2,196 GPM FLOW

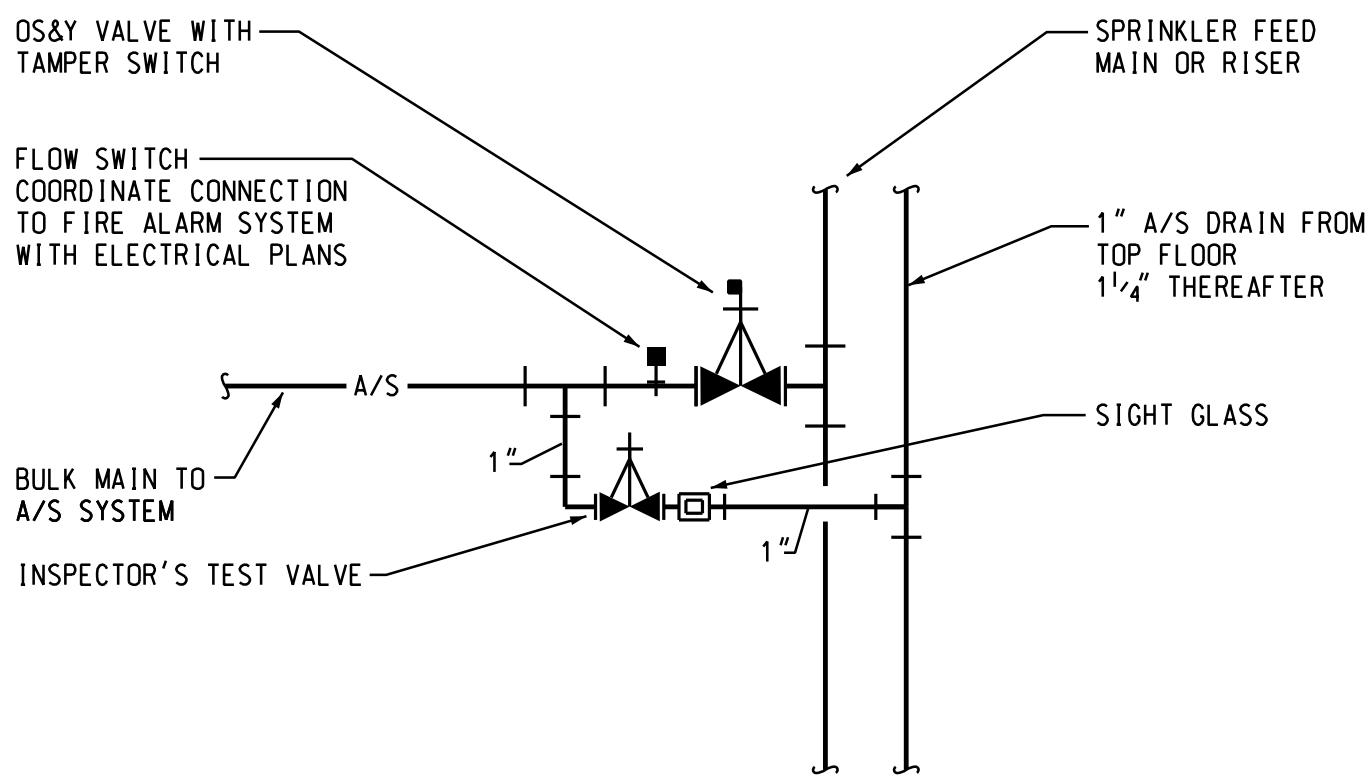
TEST DATE/TIME:
9/16/19 @ 1:50 PM

TEST BY:
BIGICA/CRUZ
GREATER NAPLES FIRE RESCUE DISTRICT
NAPLES, FL
(239)-774-2800

TEST LOCATION:
(SEE SITE UTILITY PLANS
FOR TEST HYDRANT LOCATION)

WATER SUPPLY/DEMAND GRAPH

SCALE: NONE



AUTOMATIC SPRINKLER ZONE CONTROL VALVE DETAIL

SCALE: NONE

NOTE: LOCATE A/S ZONE CONTROL VALVE AT A MINIMUM OF 7'-0" A.F.F. OR AS NOTED ON PLANS.
PROVIDE TAG/LABELS AS PER NFPA 13.

F6

A/S SYSTEM PRELIMINARY HYDRAULIC CALCULATIONS:

GENERAL INFORMATION:
NEW 2 STORY MEDICAL OFFICE BUILDING.

BUILDING CONSTRUCTION TYPE:
TYPE II - B SPRINKLED
SEE ARCHITECTURAL SHEET A0.1 FOR MORE DETAIL
ON CODE ANALYSIS

BUILDING HAZARD CLASSIFICATION:
LIGHT HAZARD OCCUPANCY EXCEPT
ORDINARY HAZARD, GROUP 1 MECH ROOM, AND
ELECTRICAL ROOMS

TYPE OF A/S SYSTEM:
WET PIPE SPRINKLER SYSTEM

TOTAL BUILDING AREA TO BE SPRINKLED
17,147 SF FIRST FLOOR
17,147 SECOND FLOOR
34,294 SF, TOTAL

NUMBER OF SPRINKLER RISERS/ENTRANCES REQUIRED:
ONE

ELEVATION LOSSES:

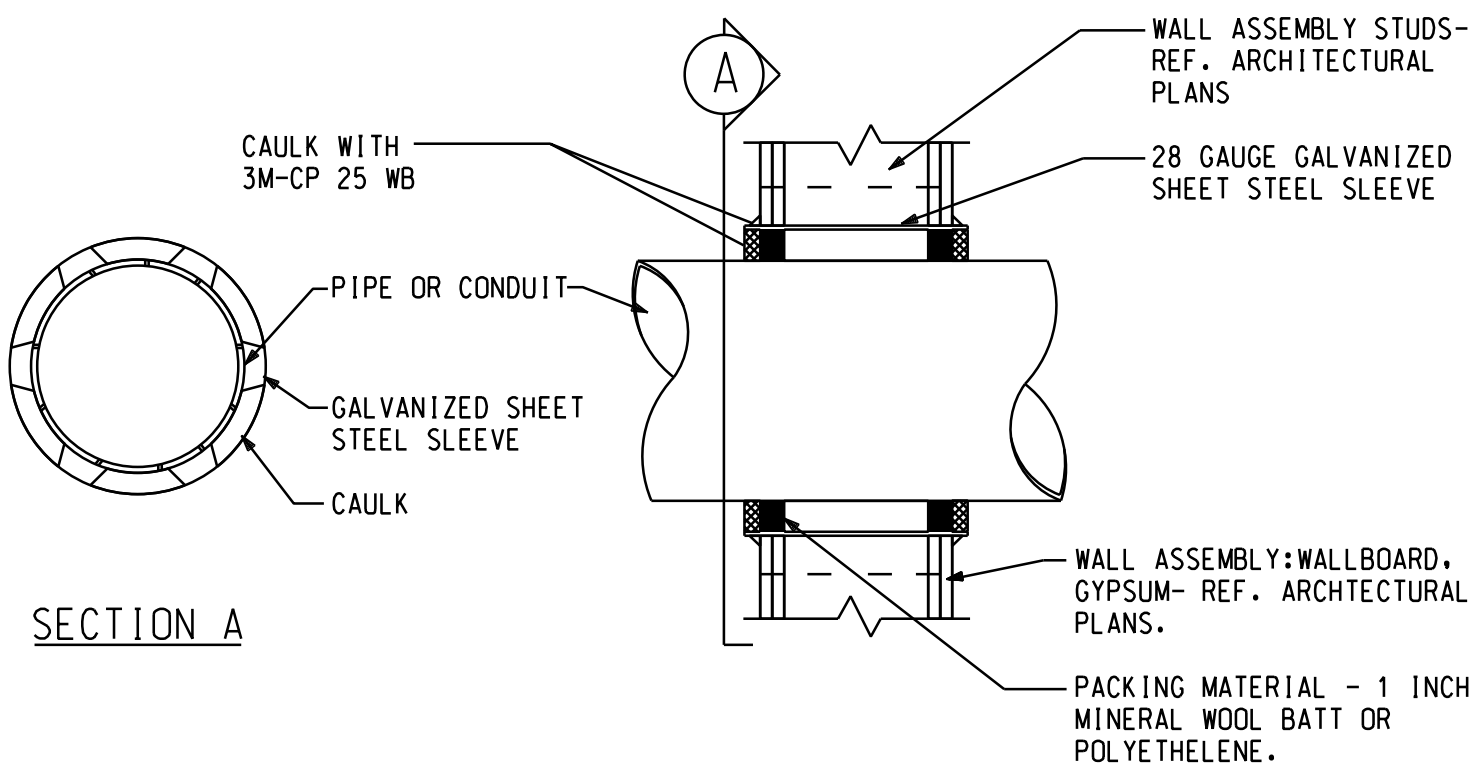
ELEVATION DIFFERENCE BETWEEN TOP OF SYSTEM
AND BASE OF RISER = 30 FT.
30 FT x .433 = 13 PSI
ELEVATION OF TEST HYDRANT IS 1.0 FT BELOW F.F.E.
1.0 x .433 = 0.43 PSI
13 PSI + 0.43 PSI = 13.4 PSI TOTAL ELEVATION LOSS

FLOW LOSSES:

1 PSI/100 FT IN PIPING (INSIDE BUILDING)
150 FT x 1.15 (PIPE FITTING FACTOR) x 1 PSI/100 = 1.7 PSI LOSS
0.25 PSI/100 F IN PIPING (6" PIPING OUTSIDE BUILDING)
250 FT x 1.15 x 0.25/100 = 1 PSI LOSS
(250' FROM BASE OF RISER TO FIRE HYD. FLOW TEST)
(SEE CIVIL ENG. SITE UTILITY PLAN SHT. FOR TEST HYD. LOCATION)

4 PSI LOSS AT FIRE LINE D.D.C.V.A.
1.7 + 1 + 4 = 6.7 PSI FLOW LOSSES

TOTAL LOSSES:
13.4 PSI (ELEVATION LOSS) + 6.7 PSI (FLOW LOSS) =
20.1 PSI TOTAL LOSS
(SEE WATER SUPPLY/DEMAND GRAPH - THIS SHEET)
80 PSI AVAILABLE AT 500 GPM
80 - 20.1 = 59.9 PSI AVAILABLE



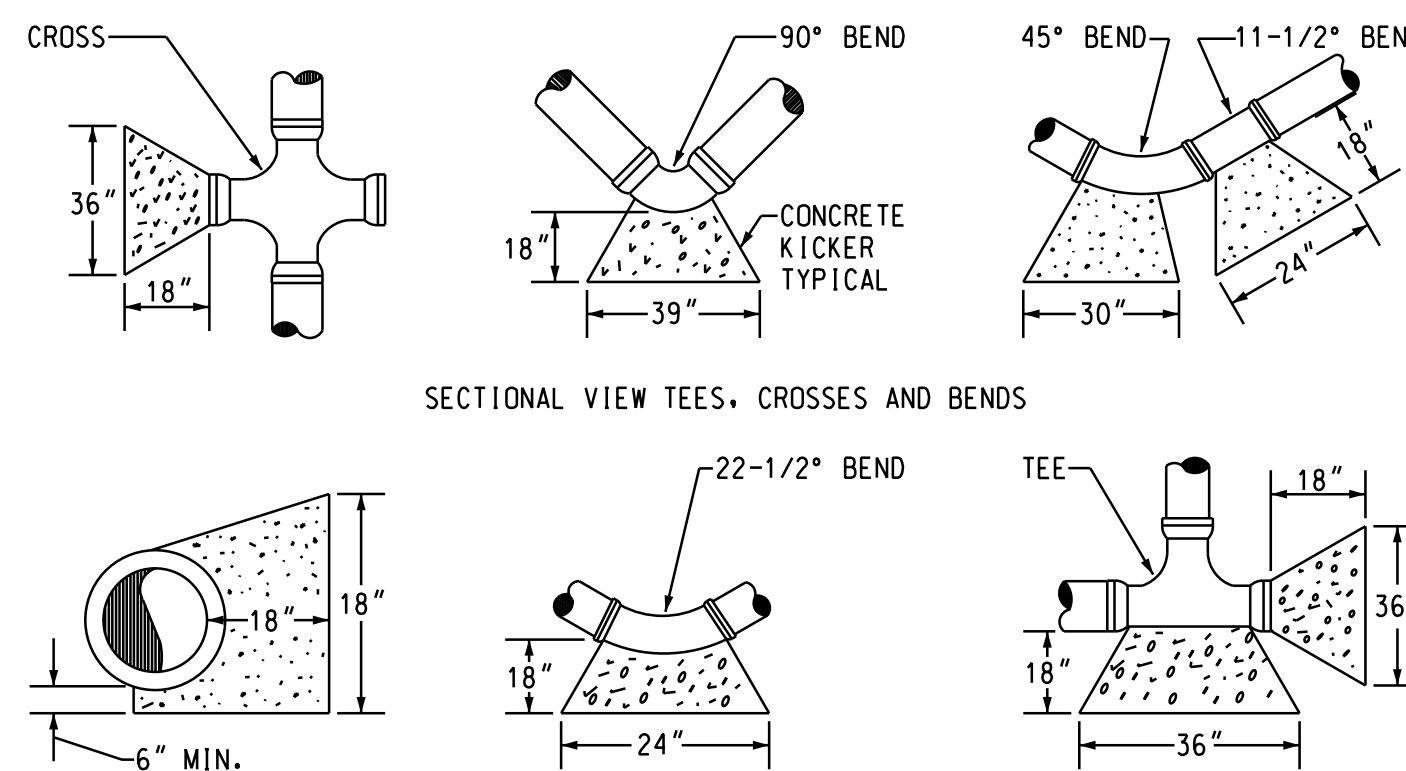
NOTE: THE INDICATED DETAIL U.L. SYSTEM NO. WL1003 IS ASSEMBLED UTILIZING 3M FIRE PROTECTION PRODUCTS. OTHER U.L. SYSTEMS AND MANUFACTURERS MAY BE USED WITH APPROVED SUBMITTAL. THE DETAIL IS SHOWN TO PROVIDE DESIGN INTENT. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH U.L. REQUIREMENTS.

PIPE PENETRATION 1 OR 2 HOUR FIRE RATING

SCALE: NONE

PENETRATION FIRESTOP FOR MAX. 12" STEEL, CAST IRON OR 4" COPPER UNINSULATED PIPE THROUGH STUD WALL ASSEMBLY.

F7

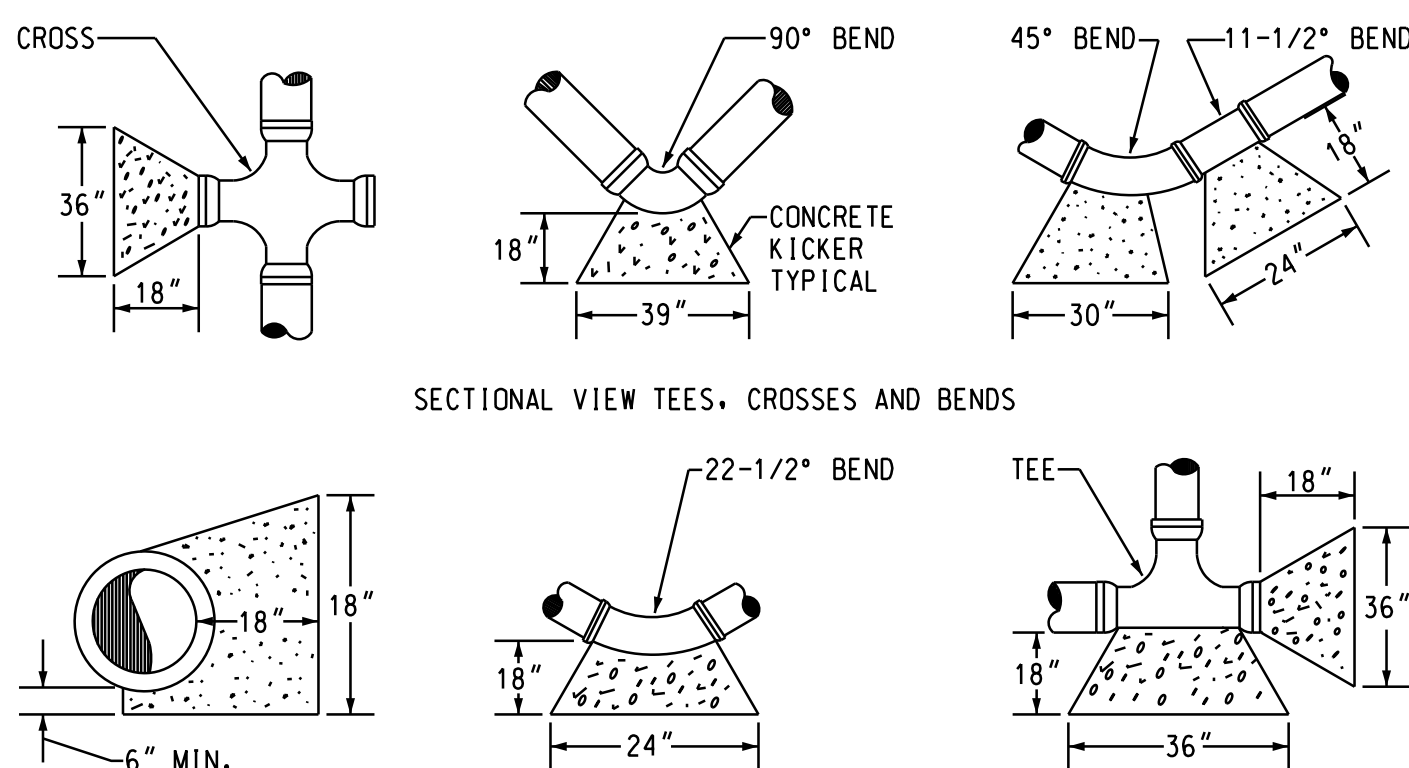


CONCRETE THRUST BLOCK DETAILS

SCALE: NONE

NOTE: DIMENSIONS OF THRUST BLOCKS ARE SUITABLE UP THRU 8" DIAMETER PIPE.

F4

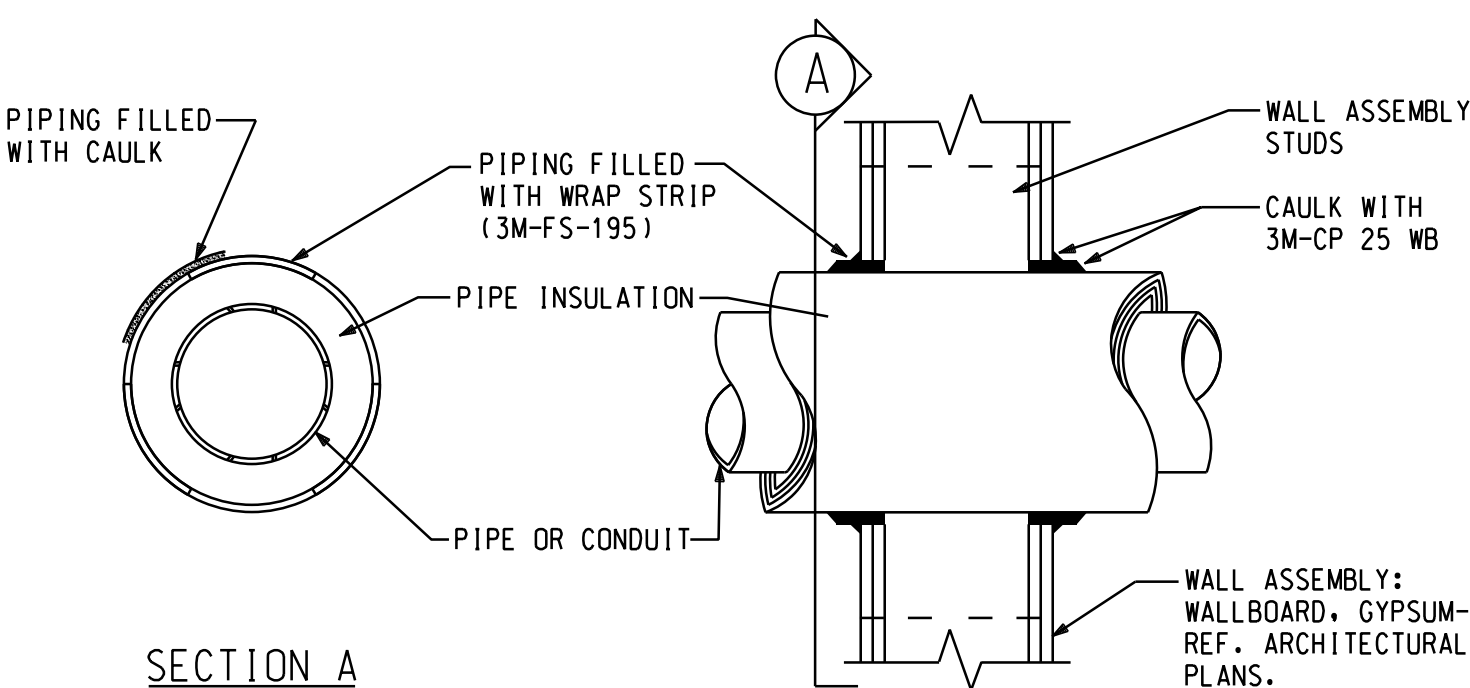


CONCRETE THRUST BLOCK DETAILS

SCALE: NONE

NOTE: DIMENSIONS OF THRUST BLOCKS ARE SUITABLE UP THRU 8" DIAMETER PIPE.

F4



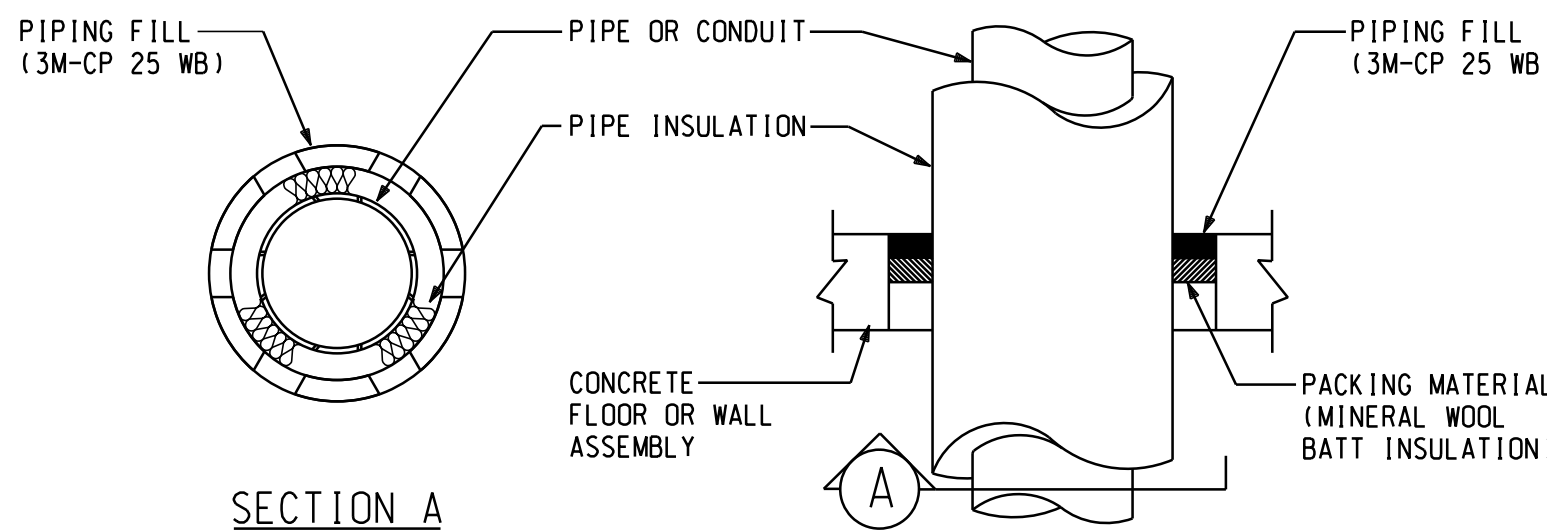
NOTE: THE INDICATED DETAIL U.L. SYSTEM NO. WL5001 IS ASSEMBLED UTILIZING 3M FIRE PROTECTION PRODUCTS. OTHER U.L. SYSTEMS AND MANUFACTURERS MAY BE USED WITH APPROVED SUBMITTAL. THE DETAIL IS SHOWN TO PROVIDE DESIGN INTENT. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH U.L. REQUIREMENTS.

PIPE PENETRATION 1 OR 2 HOUR FIRE RATING

SCALE: NONE

PENETRATION FIRESTOP FOR MAX. 12" STEEL, CAST IRON OR 6" COPPER INSULATED PIPE THROUGH STUD WALL ASSEMBLY.

F8



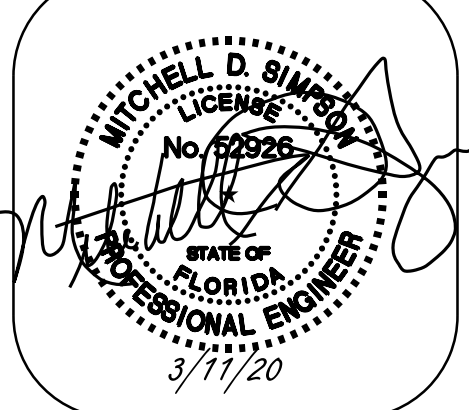
NOTE: THE INDICATED DETAIL U.L. SYSTEM NO. CAJ5001 IS ASSEMBLED UTILIZING 3M FIRE PROTECTION PRODUCTS. OTHER U.L. SYSTEMS AND MANUFACTURERS MAY BE USED WITH APPROVED SUBMITTAL. THE DETAIL IS SHOWN TO PROVIDE DESIGN INTENT. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH U.L. REQUIREMENTS.

PIPE PENETRATION 1 OR 2 HOUR FIRE RATING

SCALE: NONE

PENETRATION FIRESTOP FOR MAX. 12" STEEL, CAST IRON OR 4" COPPER INSULATED PIPE THROUGH CONCRETE FLOOR OR WALL ASSEMBLY.

F10



PHYSICIANS REGIONAL MEDICAL CENTER
FOUNDER'S SQUARE
MEDICAL OFFICE BUILDING

FLORIDA

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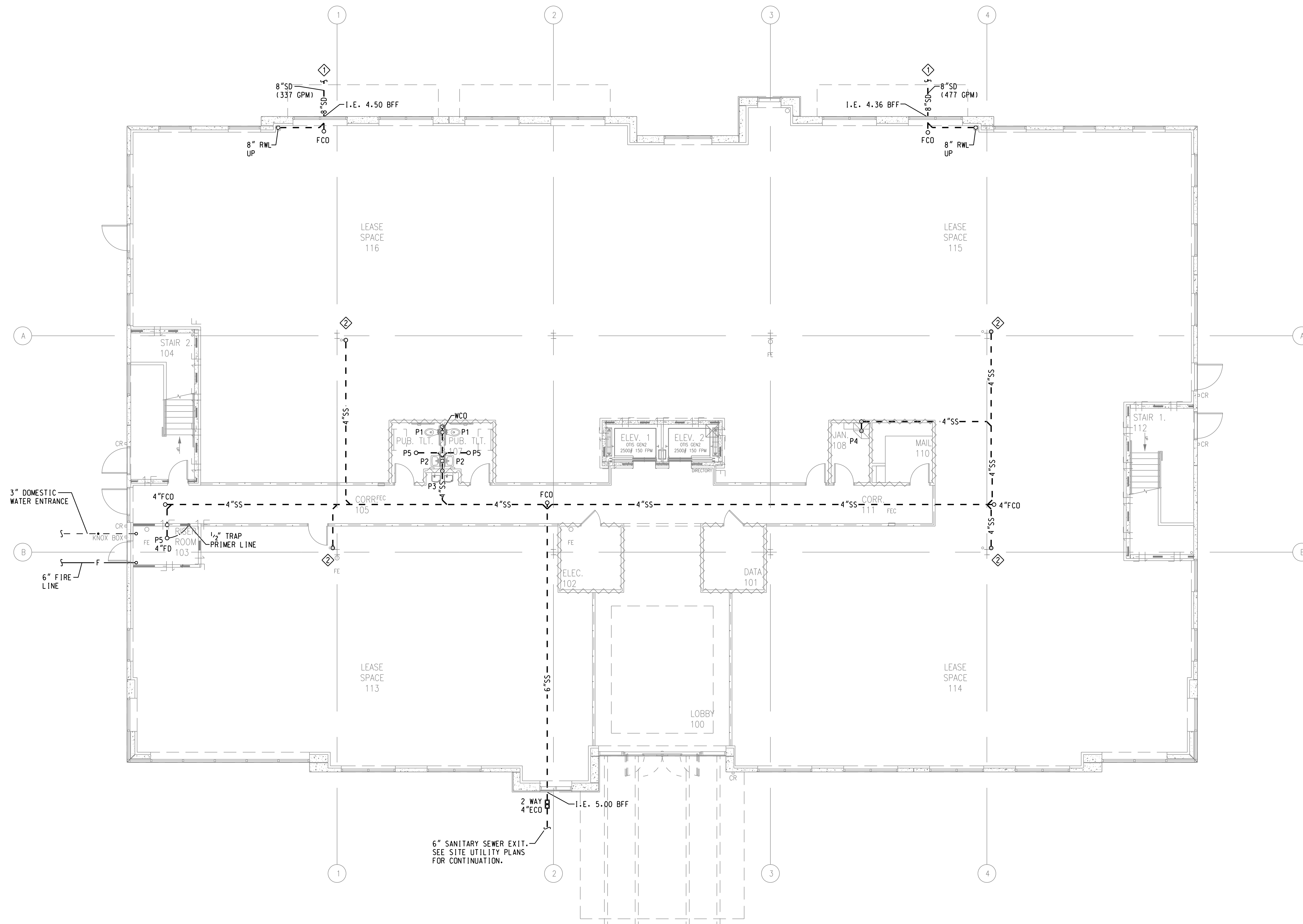
REVISIONS

NO.	DATE	DESCRIPTION

P0.02

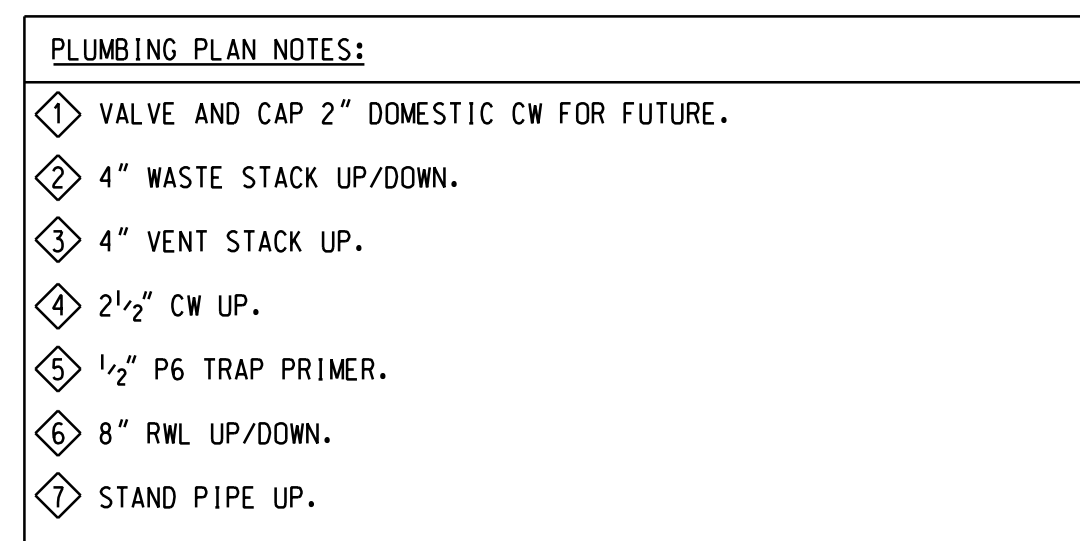
ISSUE DATE: 03.11.20
JOB NUMBER: 19046

NO.	DATE	DESCRIPTION



PLUMBING PLAN NOTES:	
◇	8" STORM DRAIN WITH MIN. 2'-6" COVER. SEE SITE UTILITY PLANS FOR CONTINUATION.
◇	4" WASTE STACK FROM ABOVE. PROVIDE CLEANOUT AT BASE OF STACK.

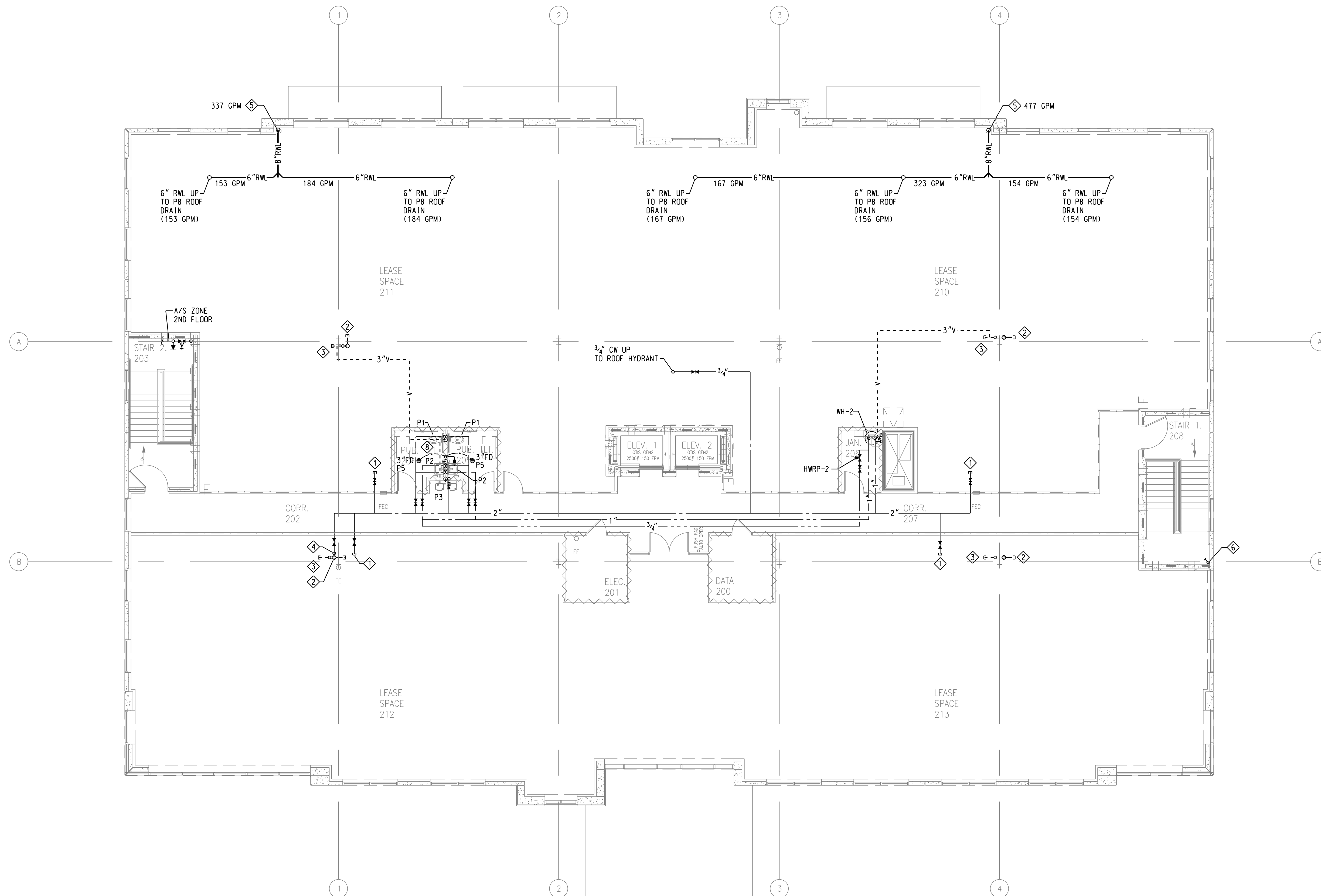
WALL LEGEND	
WALL CONSTRUCTION TYP.	
	UNRATED PARTITION TO ABOVE CLG.
	LEASE SPACE PARTITION
	UNRATED PARTITION TO DECK
	1 HOUR FIRE BARRIER
	1 HOUR SHAFT WALL BARRIER
NOTE: 1.) FOR SOUND WALLS SEE DIMENSIONED PLAN. 2.) ALL WALL TYPES MAY NOT BE USED.	



PLUMBING
FIRST FLOOR PLAN



NO.	DATE	DESCRIPTION



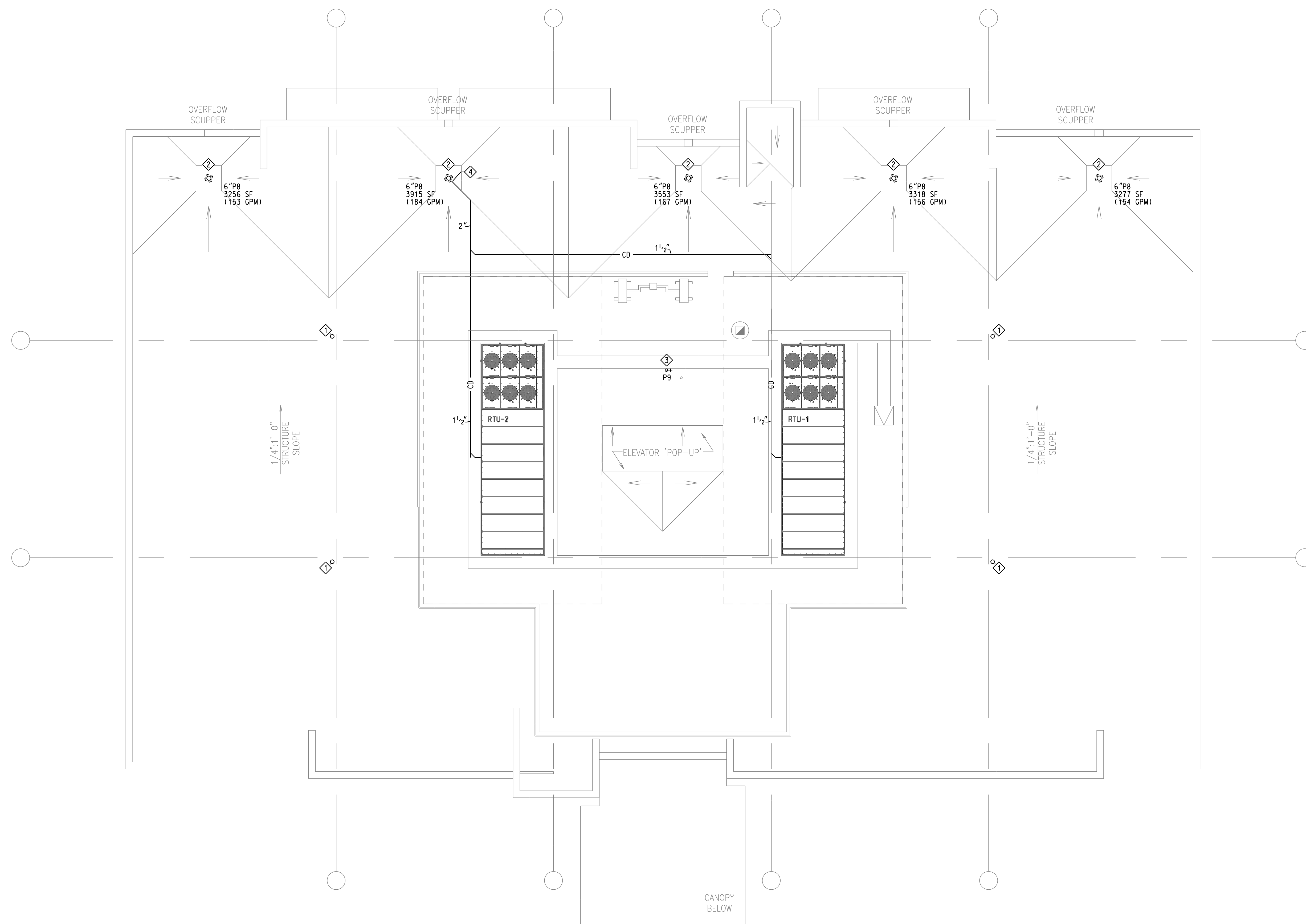
PLUMBING PLAN NOTES:	
1	VALVE AND CAP 2" DOMESTIC CW FOR FUTURE.
2	4" WASTE STACK DOWN.
3	4" VENT STACK UP.
4	2 1/2" CW FROM BELOW.
5	8" RWL DOWN.
6	STAND PIPE DOWN.

WALL LEGEND

WALL CONSTRUCTION TYP.

=====	UNRATED PARTITION TO ABOVE CLG.
=====	LEASE SPACE PARTITION
=====	UNRATED PARTITION TO DECK
=====	1 HOUR FIRE BARRIER
=====	1 HOUR SHAFT WALL BARRIER

NOTE: 1.) FOR SOUND WALLS SEE DIMENSIONED PLAN.
2.) ALL WALL TYPES MAY NOT BE USED.



PLUMBING PLAN NOTES:

- ① 4" VTR.
- ② P8 ROOF DRAIN.
- ③ P9 ROOF HYDRANT.
- ④ ROUTE CONDENSATE DRAIN ON ROOF.
SLOPE $\frac{1}{8}"$ PER FOOT TOWARD ROOF DRAIN.
CONDENSATE LINE TO TERMINATE INTO ROOF DRAIN.

PLUMBING

ROOF PLAN

