

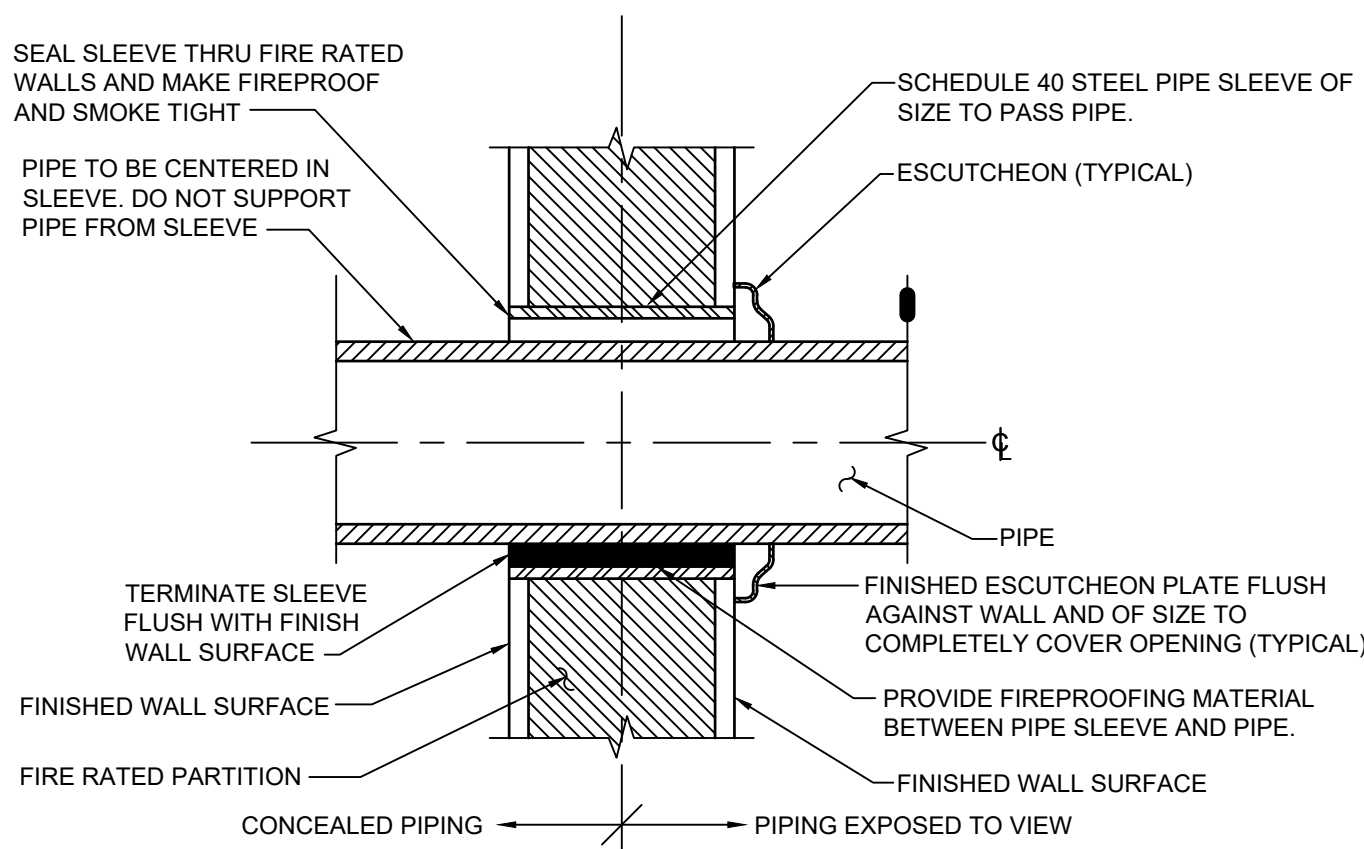
FIRE SPRINKLER WATER DEMAND					
	OFFICES, CORRIDORS, TOILET ROOMS, RESIDENT ROOMS, SHOWERS, REC ROOM	STORAGE ROOMS , JANITOR CLOSET	MECHANICAL ROOM ELECTRIC ROOM	UNUSED - ATTIC SPACE	UNHEATED STORAGE AREA
OCCUPANCY CLASSIFICATION:	LIGHT HAZARD	ORDINARY HAZARD	ORDINARY HAZARD	LIGHT HAZARD	ORDINARY HAZARD
TYPE OF SPRINKLER SYSTEM:	WET	WET	WET	DRY	DRY
DESIGN AREA OF WATER APPLICATION:	1500 SQ FT	1500 SQ FT	1500 SQ FT	1500 SQ FT	1500 SQ FT
MINIMUM DENSITY:	.10 GPM/SQ FT	.15 GPM/SQ FT	.15 GPM/SQ FT	.10 GPM/SQ FT	.15 GPM/SQ FT
SPRINKLER TEMPERATURE RATING:	AS REQUIRED	AS REQUIRED	AS REQUIRED	AS REQUIRED	AS REQUIRED
SPRINKLER 'K' FACTOR:	K=5.6	K=5.6	K=5.6	K=5.6	K=5.6
SPRINKLER HEAD TYPE:	ANTI-LIGATURE INSTITUTIONAL TYPE - QUICK RESPONSE PENDENT / SEMI - RECESSED PENDENT	ANTI-LIGATURE INSTITUTIONAL TYPE - QUICK RESPONSE UPRIGHT OR PENDENT PER CEILING APPLICATION	QUICK RESPONSE UPRIGHT OR PENDENT	QUICK RESPONSE UPRIGHT	QUICK RESPONSE UPRIGHT
HOSE STREAM ALLOWANCE:	100 GPM	250 GPM	250 GPM	100 GPM	250 GPM

FIRE PROTECTION SYMBOLS AND ABBREVIATIONS

FS	FIRE SPRINKLER LINE (FS)	XX	INDICATES NOTE LOCATED ELSEWHERE ON DRAWING AND NOTE NUMBER
F	FIRE SPRINKLER MAIN LINE (F)	ABV	ABOVE
FS (DRY)	FIRE SPRINKLER LINE (FS)	BLW	BELOW
STD	SPRINKLER TEST DRAIN (STD)	CLG	CEILING
FDC	FIRE DEPARTMENT CONNECTION LINE (FDC)	GC	GENERAL CONTRACTOR
⊥	CAP OR PLUG	EC	ELECTRICAL CONTRACTOR
⬇	SUPERVISED VALVE	HC	HVAC CONTRACTOR
●	QUICK RESPONSE PENDENT SPRINKLER HEAD	⬇	NEW CONNECTION TO EXISTING
○	QUICK RESPONSE UPRIGHT SPRINKLER HEAD		
⊙	QUICK RESPONSE SEMI-RECESSED INSTITUTIONAL ANTI-LIGATURE TYPE PENDENT SPRINKLER HEAD		
▶	INSTITUTIONAL ANTI-LIGATURE TYPE DRY-BARREL SIDEWALL FIRE SPRINKLER HEAD		

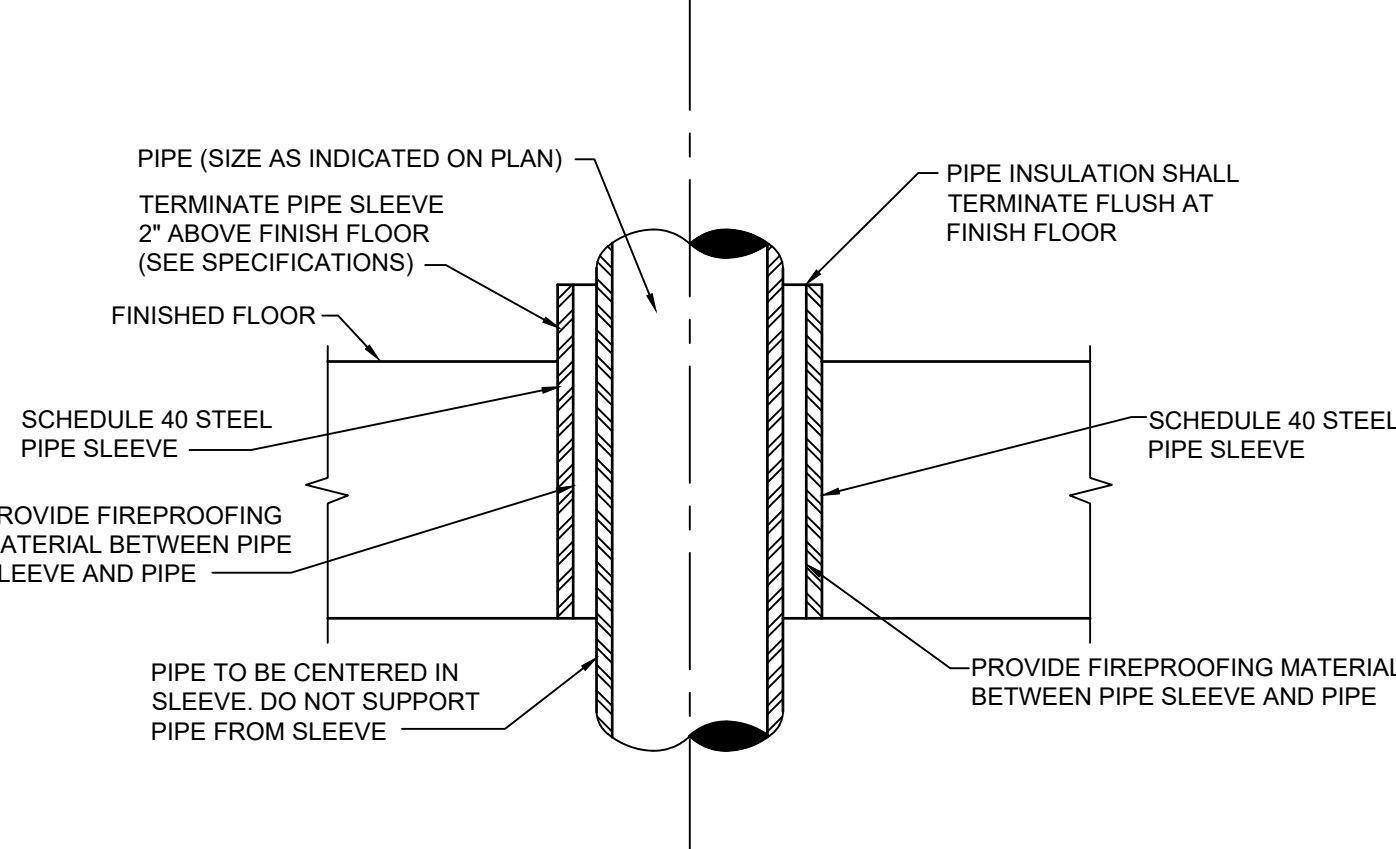
FIRE PROTECTION GENERAL NOTES

- SPRINKLER SYSTEM COMPONENTS ARE INDICATED ON THE DRAWING FOR REVIEW AND INFORMATIONAL PURPOSES ONLY. THE 3 CONTRACTOR IS RESPONSIBLE TO DESIGN AND PROVIDE ALL COMPONENTS FOR A COMPLETE FIRE SUPPRESSION DESIGN AND INSTALLATION AS PER THE INTENT OF THE PROJECT SCOPE OF WORK AND SPECIFICATIONS. ALL SPRINKLER SYSTEM COMPONENT INSTALLATIONS SHALL CONFORM TO NFPA AND LOCAL AUTHORITY HAVING JURISDICTION REQUIREMENTS. PIPE SIZING SHALL BE DONE BY HYDRAULIC CALCULATIONS.
- SPRINKLER CONTRACTOR SHALL COORDINATE SPRINKLER HEAD INSTALLATIONS WITH NEW LIGHTING AND HVAC DUCTWORK / DIFFUSER LOCATIONS.
- ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED AT THE PROJECT SITE.
- IN FINISHED AREAS WITH CEILINGS ALL FIRE SPRINKLER PIPING SHALL BE CONCEALED.
- QUICK RESPONSE UPRIGHT SPRINKLER HEADS SHALL BE PLACED BELOW DUCTWORK AND/OR OTHER OBSTRUCTIONS THAT ARE OVER 48" WIDE.
- FIRE SPRINKLER 3 CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE RESULTS OF A WATER FLOW TEST FROM THE LOCAL WATER AUTHORITY. THE TEST MUST BE DATED LESS THAN ONE (1) YEAR FROM THE PRESENT DATE TO BE CONSIDERED AN ACCEPTABLE TEST. IF THE WATER AUTHORITY CANNOT PROVIDE THIS INFORMATION, THEN THE FIRE SPRINKLER 3 CONTRACTOR SHALL CONDUCT A NEW WATER FLOW TEST. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY COSTS INCURRED TO DO THE NEW WATER FLOW TEST, AND WILL CONDUCT THE TEST WITH THE OWNER AND ENGINEER PRESENT AS WITNESSES. ANY NEW WATER FLOW TEST SHALL BE COORDINATED WITH THE LOCAL WATER AUTHORITY.
- ALL FIRE SPRINKLER HEADS AND ASSOCIATED MATERIALS LOCATED IN ACCESSIBLE AND OCCUPIED AREAS THROUGHOUT THE FACILITY SHALL BE APPROVED INSTITUTIONAL ANTI-LIGATURE UNLESS OTHERWISE NOTED. (TYPICAL)
- ALL ITEMS TO BE CONSIDERED B8H1 UNLESS OTHERWISE NOTED.



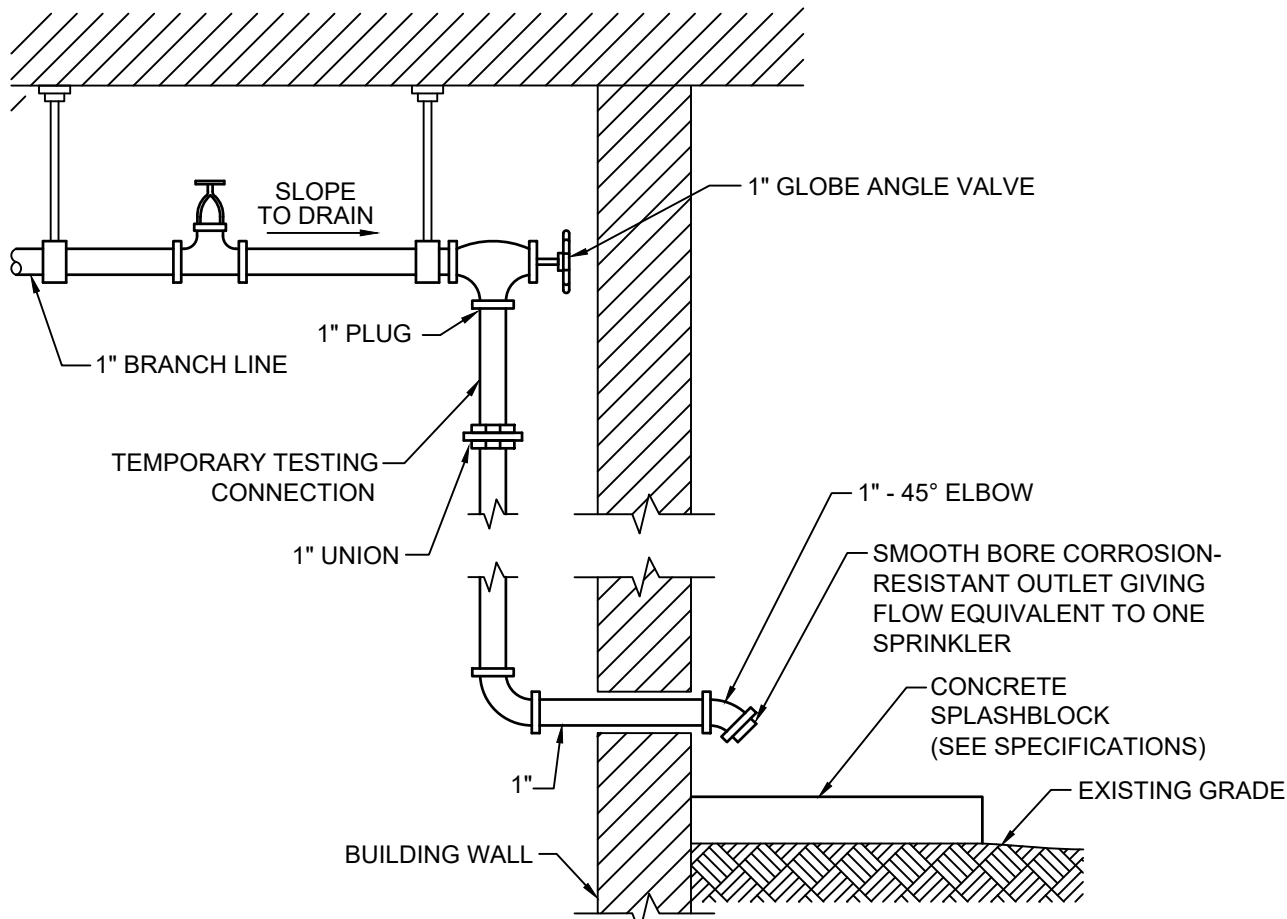
PIPE SLEEVE THRU WALL DETAIL

NOT TO SCALE



PIPE SLEEVE THRU FLOOR DETAIL

NOT TO SCALE

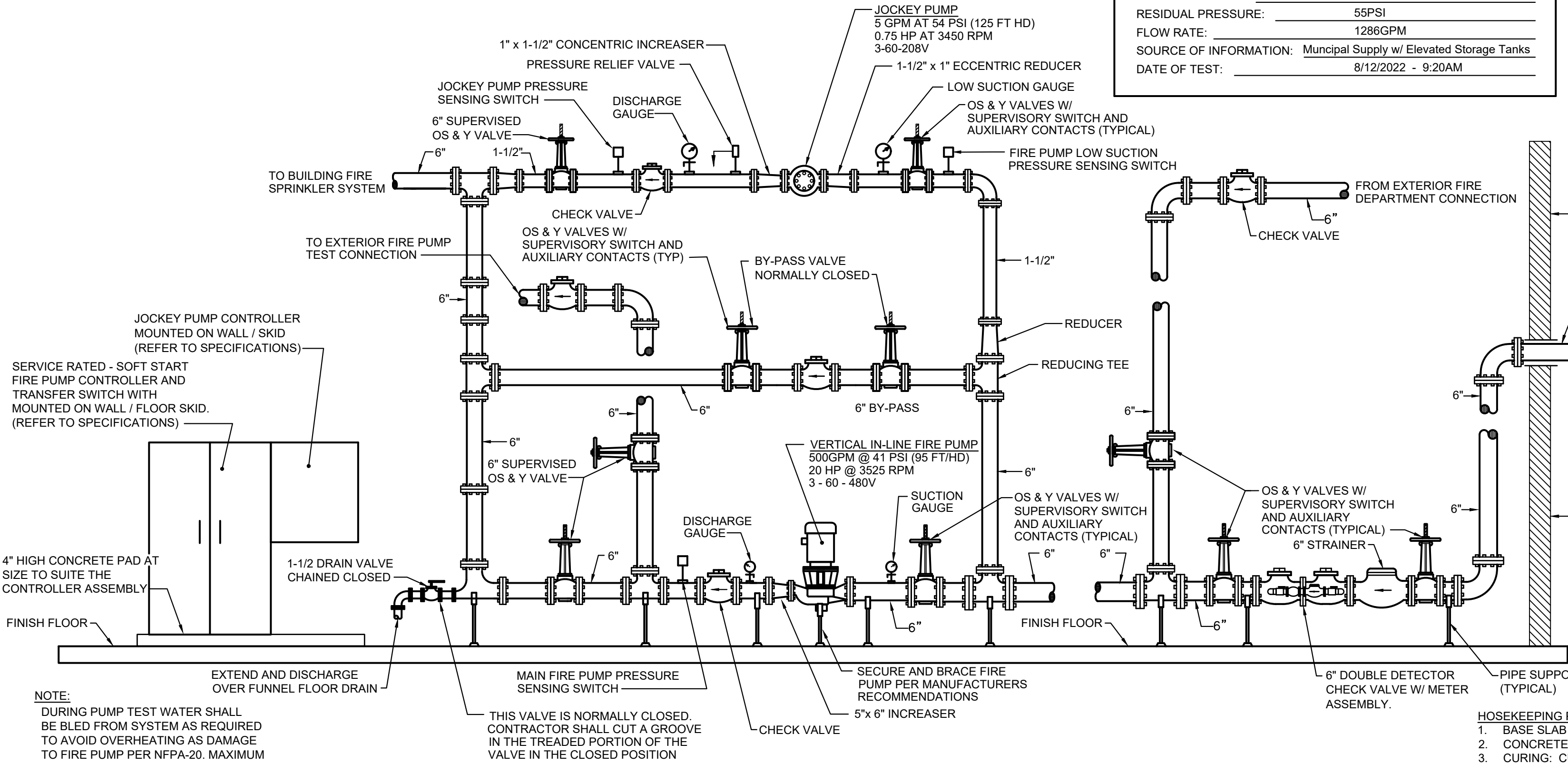


INSPECTOR'S TEST VALVE AND DRAIN DETAIL

NOT TO SCALE

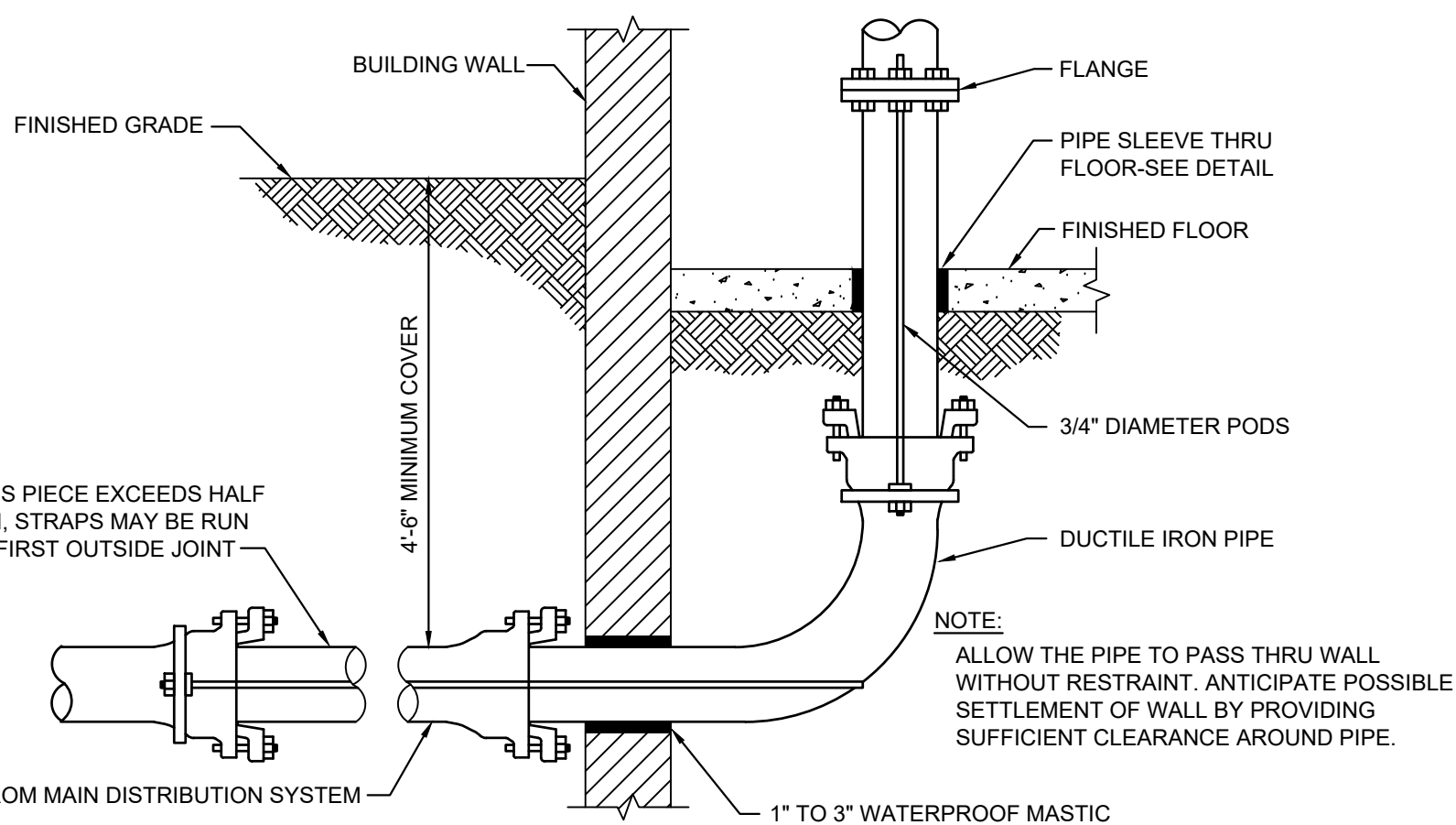
WATER TEST INFORMATION

TEST HYDRANT:	FH BLDG 21 / FLOW FH BLDG#10
TEST HYDRANT ELEVATION:	Refer to Site Civil Plans
STATIC PRESSURE:	59 PSI
RESIDUAL PRESSURE:	55PSI
FLOW RATE:	1286GPM
SOURCE OF INFORMATION:	Municipal Supply w/ Elevated Storage Tanks
DATE OF TEST:	8/12/2022 - 9:20AM



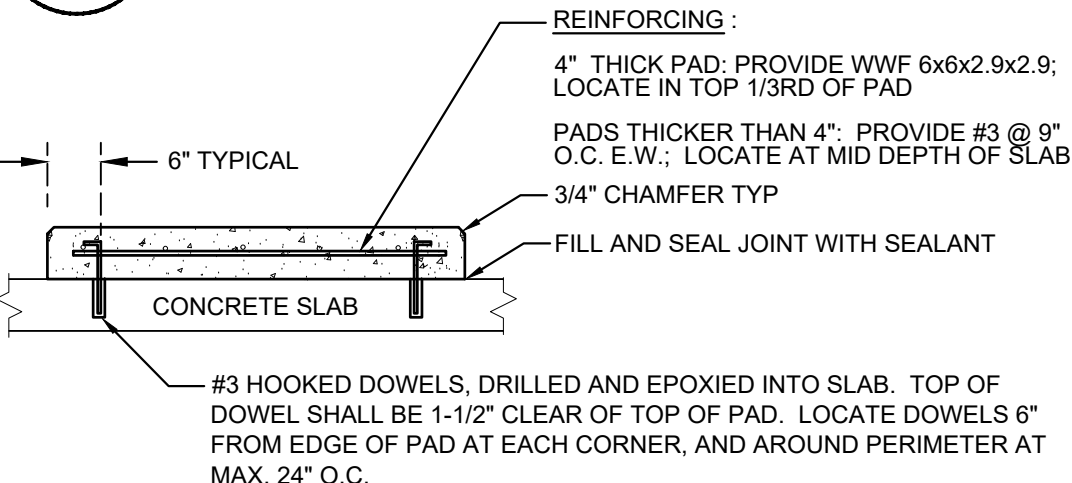
FIRE WATER SERVICE AND VERTICAL IN-LINE ELECTRIC FIRE PUMP DETAIL

NOT TO SCALE



INCOMING WATER SERVICE ENTRANCE DETAIL

NOT TO SCALE



TYPICAL HOUSEKEEPING PAD DETAIL

NOT TO SCALE

- HOUSEKEEPING PAD NOTES:
- BASE SLAB PREPARATION: CLEAN SLAB AND SCARIFY PRIOR TO POURING PAD.
 - CONCRETE MIX: MIN 4,000 PSI, 28-DAY COMPRESSIVE STRENGTH.
 - CURING: CURE FOR 7 DAYS BY EITHER COVERING WITH BURLAP & KEEPING CONTINUOUSLY WET, OR BY COVERING WITH 6 MIL VISQUEEN AND TAPING ALL JOINTS AND TAPING VISQUEEN TO BASE SLAB.
 - PAD SHALL BE AT LEAST 6" LARGER THAN THE EQUIPMENT ON ALL EXPOSED SIDES.
 - PAD SHALL BE 4" THICK UNLESS NOTED OTHERWISE.
 - DOWELS SHALL BE INSTALLED PER THE MANUFACTURER'S REQUIREMENTS.

RECORD REVISIONS			
PROFESSIONAL'S SIGNATURE DATE			
UpStreet ARCHITECTS, INC. 541 PHILADELPHIA ST. INDIANA, PA 15701 911 MENOHER BLVD. JOHNSTOWN, PA 15905			
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF GENERAL SERVICES HARRISBURG, PENNSYLVANIA			
D.G.S. PROJECT No: C-0588-0015 PHASE 1			
LOYSVILLE YOUTH DEVELOPMENT CENTER- RENOVATIONS TO ZIMMERMAN- BINGAMAN (ZB) COTTAGE DEPARTMENT OF HUMAN SERVICES LOYSVILLE, TYRONE TOWNSHIP, PERRY COUNTY, PA			
SYMBOLS AND ABBREVIATIONS - FIRE			
VERIFY SCALE BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0 1 IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY		CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.	DRAWN BY S. KORMANIK CHECKED BY W. MINAHAN DATE 27 JUNE 2023 SCALE AS NOTED SHEET No. FP-001