

GENERAL NOTES:

- A. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT LOCAL CODES AND PROJECT SPECIFICATIONS.
- B. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL PIPING WITH MECHANICAL, ELECTRICAL, ARCHITECTURAL, AND STRUCTURAL TRADES PRIOR TO CONSTRUCTION TO AVOID INTERFERENCE.
- C. PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES, WATER HAMMER ARRESTORS, TRAPS, ETC.
- D. PROVIDE TRAP GUARDS FOR ALL P-TRAPS FOR FLOOR DRAINS LOCATED IN MECHANICAL ROOMS, PUBLIC RESTROOMS AND OTHER AREAS WHERE TRAP EVAPORATION MAY OCCUR.
- E. PLUMBING CONTRACTOR SHALL CONNECT ALL ITEMS OF EQUIPMENT FURNISHED BY OTHERS AND UNDER OTHER SECTIONS OF THE SPECIFICATIONS. CONTRACTOR SHALL PROVIDE ALL ITEMS NECESSARY TO COMPLETE THE PLUMBING INSTALLATION.
- F. REFER TO ARCHITECTURAL DRAWING FOR ROUGHING DIMENSIONS OF PLUMBING FIXTURE MOUNTINGS HEIGHTS.
- G. PROVIDE UNIONS FOR ALL PIPING CONNECTIONS TO EQUIPMENT.
- H. ALL PLUMBING FIXTURES AND EQUIPMENT SHALL BE IN COMPLIANCE WITH CURRENT APPLICABLE ENERGY CONSERVATION CODES.
- I. ALL PIPING AND EQUIPMENT IS SHOWN DIAGRAMMATICALLY ONLY. GENERAL ORIENTATION SHOWN IN PLAN AND SECTIONAL DRAWINGS. EXACT LOCATION SHALL BE DETERMINED IN FIELD. MAINTAIN HEAD ROOM AND SPACE CONDITIONS AT ALL TIMES. ALL WORK SHALL BE COORDINATED WITH ALL TRADES BEFORE PROCEEDING WITH INSTALLATION. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES. PRIOR TO EQUIPMENT SUBMITTALS, CONTRACTOR SHALL VERIFY EXISTING AND PROPOSED CONDITIONS SUCH AS CORRIDORS, PASSAGE-WAY ROOM SIZES, ETC. TO ENSURE SPECIFIED EQUIPMENT CAN BE PROPERLY INSTALLED.
- J. FABRICATE AND INSTALL ALL PIPING IN ACCORDANCE WITH THE STATE PLUMBING CODE, LOCAL PLUMBING CODE, AND APPLICABLE SECTIONS OF THE BUILDING CODES.
- K. INSTALL PIPING CLOSE TO WALLS, PARTITIONS, CEILINGS, ETC. OFFSET ONLY WHERE NECESSARY TO FOLLOW WALLS, AS INDICATED.
- L. PROVIDE ALL NECESSARY FITTINGS, OFFSETS, VALVES AND OTHER DEVICES REQUIRED FOR A COMPLETE INSTALLATION.
- L. INSTALL PIPING IN A CONCEALED MANNER, STRAIGHT, PLUMB AND AS DIRECT AS POSSIBLE. FORM RIGHT ANGLES PARALLEL WITH BUILDING WALLS. LOCATE GROUPS OF PIPES PARALLEL TO EACH OTHER. PIPE SHALL BE LOCATED TO PERMIT ACCESS FOR SERVICE VALVES.
- M. CONCRETE PADS, PITS, AND FLASHING FOR PLUMBING EQUIPMENT SHALL BE AS INDICATED ON THE STRUCTURAL AND ARCHITECTURAL PLANS, UNLESS NOTED OTHERWISE. COORDINATE EXACT SIZES OF REQUIRED OPENINGS AND SUPPORTS FOR FURNISHED EQUIPMENT.
- N. ALL PIPING SHALL BE REAMED TO BE FREE OF BURRS. KEEP PIPING FREE FROM SCALE AND DIRT. PROTECT OPEN PIPE ENDS WHENEVER WORK IS SUSPENDED DURING CONSTRUCTION TO PREVENT FOREIGN MATERIAL FROM ENTERING, AND CAP ALL OPEN ENDS DURING CONSTRUCTION WITH APPROVED TEMPORALLY CAPS OR MATERIALS.
- O. ALL GAS PIPING AND OTHER PLUMBING SYSTEMS SHALL BE SEISMICALLY BRACED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE STATE BUILDING CODE AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA). SEAL ALL WALL AND FLOOR PENETRATIONS AROUND NEW PIPES WITH FIRE PROOF CAULKING.
- P. MAINTENANCE LABELS SHALL BE AFFIXED TO ALL PLUMBING EQUIPMENT AND MAINTENANCE AND OPERATION MANUALS SHALL BE PROVIDED TO OWNER.
- Q. INSTALL WELDED OR THREADED PIPE IN AREAS WHERE SPACE IS CRITICAL BETWEEN FINISHED CEILING AND STRUCTURAL SURFACE. INSTALL ALL VENTS THRU ROOF 10'-0" MINIMUM FROM EDGE OF ROOF AND 25'-0" FROM FRESH AIR INTAKES.
- R. SUBMIT ALL REQUIRED PLUMBING DOCUMENTS TO LOCAL PLUMBING OFFICIAL FOR APPROVAL. THE ENTIRE PLUMBING SYSTEM SHALL BE INSTALLED IN COMPLIANCE WITH ALL APPLICABLE BUILDING CODES, REGULATIONS, AND LOCAL REQUIREMENTS.
- S. SUBMIT APPROVED PRESSURE REDUCING VALVES & BACKFLOW PREVENTION DEVICES TO WATER AUTHORITY. CONTRACTOR SHALL PROVIDE ALL NECESSARY DEVICE WATER AUTHORITY REQUIREMENTS AND MANUFACTURER RECOMMENDATIONS.
- T. ALL WALL, CEILING AND FLOOR PENETRATIONS CONVEYING PLUMBING AND DRAINS SHALL BE FULLY SEALED AND CAULKED AROUND THE PENETRATING FEATURE TO RESTORE THE REQUIRED FIRE OR SMOKE BARRIER RATING OF THE WALL, CEILING OR FLOOR PENETRATED. AT A MINIMUM, AT ALL LOCATIONS A TWENTY (20) MINUTE FIRE/SMOKE RESISTANCE SHALL BE MAINTAINED. WHERE REQUIRED BY CODE, THE PENETRATING FEATURES SHALL ALSO BE SUPPLIED AND INSTALLED WITH A MECHANISM OR MATERIAL WHICH WILL MAINTAIN THE WALL, CEILING OR FLOOR RATING OF THE EVENT OF A FIRE.
- U. PLUMBING OR SPRINKLER RELATED PIPE SHALL NOT PENETRATE INTO OR PASS THROUGH STAIRWAYS UNLESS IT IS REQUIRED FOR SERVICING THE STAIRWAY OR IT IS SEGREGATED FROM THE STAIRWAY PASSAGEWAY BY AN ENCLOSURE SYSTEM RATED EQUAL TO OR GREATER THAN THE REQUIRED STAIRWAY RATING.
- V. PROVIDE FLUSH TYPE ACCESS DOORS OR PANELS NO SMALLER THAN 12"x12" AND NO LARGER THAN 30"x30" FOR ALL VALVES OR APPARATUS LOCATED IN CHASES, WALLS, AND NON ACCESSIBLE CEILINGS, OR FLOORS.
- W. INSTALL WATER HAMMER ARRESTORS IN COMPLIANCE WITH ALL APPLICABLE CODES. SIZE OF WATER HAMMER ARRESTORS SHALL BE ACCORDING TO THE WATER HAMMER SCHEDULE AND MANUFACTURER'S RECOMMENDATIONS FOR THAT BRANCH LINE.
- X. CLEANOUTS SHALL BE PROVIDED AS INDICATED ON PLANS AND AS REQUIRED BY THE LOCAL CODES.
- Y. PRIOR TO INSTALLING ANY PIPING, VERIFY EXISTING OR NEW INVERT ELEVATIONS, LOCATIONS AND PIPE SIZES. INSTALL ALL SANITARY AND WASTE BEGINNING AT LOW POINT OF EACH SYSTEM AND CONTINUE WITH UNBROKEN CONTINUITY OF INVERT. LOW POINT OF EACH SYSTEM SHALL BE COORDINATED WITH SITE UTILITIES CONTRACTOR. REFER TO SITE UTILITY PLANS FOR REFERENCE.
- Z. DRAIN VALVES SHALL BE PROVIDED ON LOWEST POINT OF ALL DOMESTIC WATER RISERS AS FOLLOWS: 1-1/2" OR LESS-PROVIDE 1/2" DRAIN VALVE. 2" OR LARGER-PROVIDE 3/4" DRAIN VALVE.
- AA. DRAIN VALVES SHALL BE PROVIDED ON LOWEST POINT OF ALL DOMESTIC WATER RISERS AS FOLLOWS: 1-1/2" OR LESS-PROVIDE 1/2" DRAIN VALVE. 2" OR LARGER-PROVIDE 3/4" DRAIN VALVE.
- BB. PROVIDE ISOLATION VALVES AT ALL FIXTURES AND EQUIPMENT.
- CC. PLUMBING CONTRACTOR SHALL INSTALL GAS VENTS FOR ALL GAS MANIFOLD/TRAIN SYSTEMS LOCATED AT BOILERS OR WATER HEATERS. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL REVIEW THE EXISTING CONDITIONS TO DETERMINE MOST ECONOMICAL ROUTE FOR MANIFOLD VENTS BEGINNING AT EQUIPMENT AND EXTENDING THROUGH ROOF.

| PLUMBING SYMBOL LIST | |
|----------------------|--------------------------------------|
| SYMBOL | DESCRIPTION |
| | POINT OF CONNECTION |
| NTS | NOT TO SCALE |
| AFF | ABOVE FINISHED FLOOR |
| BFF | BELOW FINISHED FLOOR |
| VTR | VENT THRU ROOF |
| GC | GENERAL CONTRACTOR |
| MC | MECHANICAL CONTRACTOR |
| PC | PLUMBING CONTRACTOR |
| EC | ELECTRICAL CONTRACTOR |
| ---- | NEW PIPING LOCATED ABOVE FLOOR/SLAB |
| ---- | NEW PIPING LOCATED BELOW FLOOR/SLAB |
| ---- | COLD WATER PIPING (CW) |
| ---- | HOT WATER PIPING (HW) |
| ---- | HOT WATER RECIRCULATING PIPING (HWR) |
| W---- | WATER SERVICE - EXTERIOR |
| SAN---- | SANITARY SEWER PIPING |
| ---V--- | VENT PIPING (V) |
| ---G--- | NATURAL GAS PIPING (G) |
| ---OW--- | OIL/WATER WASTE PIPING (OW) |
| ---CA--- | COMPRESSED AIR PIPING (CA) |
| ---> | ELBOW DOWN |
| --->> | 45°OFFSET |
| ---O--- | ELBOW UP |
| ---⊖--- | BOTTOM/TEE CONNECTION |
| ---⊕--- | TOP TEE CONNECTION |
| ---∞--- | "P" TRAP |
| ---└--- | PIPE CONTINUATION |
| ---┘--- | CAP OR PLUG |
| ---⊕--- | DECK PLATE CLEANOUT (DPCO) |
| ---⊕--- | WALL PLATE CLEANOUT (WP CO) |
| --- --- | CLEANOUT (CO) |
| ---⊕--- | FLOOR DRAIN (FD) / FLOOR SINK (FS) |
| ---┘--- | WALL HYDRANT (WH) / HOSE BIBB (HB) |
| ---┘--- | STRAINER |
| ---M--- | WATER METER |
| ---●--- | SHUT OFF VALVE |
| ---⊗--- | BALANCING VALVE |
| ---┘--- | CHECK VALVE |
| ---⊕--- | SOLENOID VALVE |
| ---┘--- | PRESSURE REDUCING VALVE |
| ---┘--- | RELIEF VALVE |
| --- --- | UNION |
| ---◀--- | BACKFLOW PREVENTER (BFP) |
| ---▶--- | SHOWER HEAD |
| ---◆--- | SHOCK ABSORBER (SA) |
| --- Z --- | RECIRCULATION PUMP |
| ---□--- | THERMOMETER |
| ---+⊕--- | PRESSURE GAUGE |
| ---(X)--- | DRAWING KEYNOTE |

FIXTURE AND EQUIPMENT CONNECTION SCHEDULE

| DESIGNATION | DESCRIPTION | COLD WATER | HOT WATER | WASTE OR SANITARY | VENT | REMARKS |
|-------------|--------------------------------------|------------|-----------|-------------------|--------|---|
| WC-A | WATER CLOSET - PUBLIC - FLUSH VALVE | 1" | - | 3" | 2" | ADA HEIGHT, WALL HUNG, ELONGATED, 1.28 GPF: AMERICAN STANDARD AFWALL. OPEN FRONT TOILET SEAT. |
| UR-A | URINAL -PUBLIC - FLUSH VALVE | 3/4" | - | 2" | 1-1/2" | WALL MOUNTED, ELONGATED FLUSHING RIM, TOP SPUD, SLOAN G2 OPTIMA PLUS SENSOR BATTERY POWERED, 0.5 GPF: AMERICAN STANDARD WASHBROOK. |
| LAV-A | LAVATORY - ADA | 1/2" | 1/2" | 1-1/2" | 1-1/2" | AMERICAN STANDARD LUCERNE, WALL-HUNG, LAV GUARD |
| LAV-B | LAVATORY - PUBLIC - ADA | 1/2" | 1/2" | 1-1/2" | 1-1/2" | AMERICAN STANDARD, LAV GUARD |
| SK-A | KITCHEN SINK | 1/2" | 1/2" | 1-1/2" | 1-1/2" | ELKAY LUSTERTONE, ADA, STRAINER |
| SH-A | SHOWER - ADA | 1/2" | 1/2" | 1-1/2" | 1-1/2" | AQUATIC ADVANTAGE 16030BFSC, CENTER BRASS DRAIN, SLIP RESISTANT TEXTURED BOTTOM, VINYL FLEXIBLE DAM, REINFORCED FOR FOLDING SEAT AND GRAB BARS, CURTAIN ROD, SOAP DISH. MOEN 8346EP15 POSI-TEMP TRIM KIT, CHROME FINISH, HAND-HELD SHOWER WITH 30" SLIDE BAR, DROP ELL, 69" METAL HOSE, CHROME FINISH, 1.5 GPM. |
| FD-A | FLOOR DRAIN - STANDARD | - | - | 2" | 1-1/2" | JAY R SMITH FIGURE 2010, 7" ADJUSTABLE STRAINER, TRAP GUARD |
| FD-B | FLOOR DRAIN - WITH RECESS | - | - | 3" | 1-1/2" | JAY R SMITH FIGURE 2010, 7" ADJUSTABLE STRAINER, TRAP GUARD, WITH RECESSED, ANTI-FLOOD RIM. |
| FD-C | FLOOR DRAIN - HEAVY DUTY | - | - | 4",6" | - | JAY R SMITH FIGURE 21243C, 12" NICKEL BRONZE HINGED GRATE, SEDIMENT BUCKET, QUAD CLOSE TRAP SEAL, |
| TD-A | TRENCH DRAIN SYSTEM WITH CATCH BASIN | - | - | 4",6" | - | ZURN Z882-HDG, GALVANIZED PRE-SLOPED TRENCH DRAIN SYSTEM, HIGH DENSITY POLYETHYLENE, EXTRA HEAVY DUTY 12" WIDE GRATE, EN1433 CLASSIFICATION 'E', GALVANIZED CATH BASIN WITH SEDIMENT BASKET. |
| EW-C-A | WATER COOLER - ADA | 1/2" | - | 1-1/2" | 1-1/2" | ELKAY EZSTL8LC, BI-LEVEL NON-FILTERING, 8 GPH. |
| MB-A | MOP BASIN | 3/4" | 3/4" | 2" | 1-1/2" | FIAT MODEL MSB |
| SS-A | SERVICE SINK | 1/2" | 1/2" | 2" | 1-1/2" | AMERICAN STANDARD AKRON |

BACKFLOW PREVENTER SCHEDULE

| NO. | AREA SERVED | USAGE | TYPE | ORIENTATION | INLET/ OUTLET SIZE (IN.) | INLET/ OUTLET SHUTOFF VALVE TYPE | MAX. WORKING PRESSURE (PSI) | FLOW AT 7.5 FPS (GPM) | PRESSURE DROP AT 7.5 FPS (PSI) | DESIGN MAKE |
|--------|-------------|-------------------|------|-------------|--------------------------|----------------------------------|-----------------------------|-----------------------|--------------------------------|------------------|
| DCDA-1 | DPW BLDG | FIRE WATER | DCDA | HORIZONTAL | 6" | OSY | 175 | 680 | 7.0 | WATTS 709 DCDA |
| RPZ-1 | DPW BLDG | DOMESTIC WATER | RPZ | HORIZONTAL | 3" | OSY | 175 | 170 | 12.0 | WATTS LF909 RPZ |
| RPZ-2 | WASHBAY | WASHBAY EQUIPMENT | RPZ | HORIZONTAL | 1" | QUARTER TURN BALL | 175 | 20 | 10.0 | WATTS 009M2-QT-S |

AIR COMPRESSOR SCHEDULE

| NO. | LOCATION | SERVICE | ACFM | MAX. PRESSURE (PSIG) | MOTOR HP | VOLTAGE | PHASE | TYPE | DESIGN MAKE |
|--------|-----------------|------------|------|----------------------|----------|---------|-------|----------------------|------------------------|
| COMP-1 | COMPRESSOR ROOM | TRUCK BAYS | 92.4 | 175 | 15 | 480 | 3 | DUPLEX RECIPROCATING | CHAMPION MODEL HR15-12 |

- REMARKS:
1. INCLUDE 120 GALLON RECEIVER
2. INCLUDE REFRIGERANT DRYER
3. INCLUDE 400 GALLON DRY STORAGE TANK

WATER HEATER SCHEDULE

| NO. | SERVICE | STORAGE VOLUME (GAL.) | BTUH INPUT | GALLONS/ HOUR... | TEMP RISE DEG F | FUEL TYPE | VENT IN INCHES | ELECTRIC | EFFICIENCY | DESIGN MAKE |
|------|----------------|-----------------------|------------|------------------|-----------------|-----------|----------------|-----------|------------|-----------------------------------|
| WH-1 | ADMIN | 60 | 1200000 | 138 | 100 | NAT GAS | 3" | 120V / 5A | 95% | A.O. SMITH CYCLONE MXI BTH 120(A) |
| WH-2 | VEHICLE MAINT. | 60 | 1200000 | 138 | 100 | NAT GAS | 3" | 120V / 5A | 95% | A.O. SMITH CYCLONE MXI BTH 120(A) |

MASTER MIXING VALVE SCHEDULE

| TAG NO. | SERVICE | TYPE | DESIGN RANGE (GPM) | PEAK FLOW (GPM) | MAX. PRESSURE DROP AT PEAK FLOW (PSI) | CONNECTIONS | | | DESIGN MAKE |
|---------|-----------|----------|--------------------|-----------------|---------------------------------------|-------------|----------|--------------|-----------------|
| MMV-1 | WH-1,WH-2 | HIGH/LOW | 0.5 - 159 | 60.0 | 10 | HW INLET | CW INLET | MIXED OUTLET | POWERS LFSH1434 |

PUMP SCHEDULE

| NO. | LOCATION | SERVICE | GPM | HEAD FT WATER | MOTOR HP | VOLTAGE | PHASE | RPM | TYPE | DESIGN MAKE |
|------|-----------|-----------|-----|---------------|----------|---------|-------|------|--------|---------------------------------|
| RP-1 | MEZZANINE | ADMIN HWR | 1.2 | 13.1 | 0.5 | 208 | 1 | 2225 | INLINE | BELL & GOSSETT ECOCIRC XL 55-45 |

EXPANSION TANK SCHEDULE

| NO. | LOCATION | SERVICE | RELIEF PRESSURE | TANK VOLUME (GALLONS) | MAX. ACCEPT FACTOR | DESIGN EQUIPMENT |
|------|------------|------------|-----------------|-----------------------|--------------------|------------------|
| ET-1 | WH-1, WH-2 | DOM. WATER | 125 PSI | 10 | 1.0 | AMTROL ST-35-CL |

SHOCK ABSORBER SCHEDULE

| NO. | FIXTURE UNIT RATING | SIZE IN INCHES | PDI SYMBOL |
|------|---------------------|----------------|------------|
| SA-A | 1 - 11 | 1/2" | A |
| SA-B | 12 - 32 | 3/4" | B |
| SA-C | 33 - 60 | 1" | C |
| SA-D | 61 - 113 | 1 1/4" | D |
| SA-E | 114 - 154 | 1 1/2" | E |
| SA-F | 155 - 330 | 2" | F |

Project:

VILLAGE OF ARDSLEY, NY



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Date: APRIL 7, 2022

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Reviewed By: PJW

Approved By: BAB

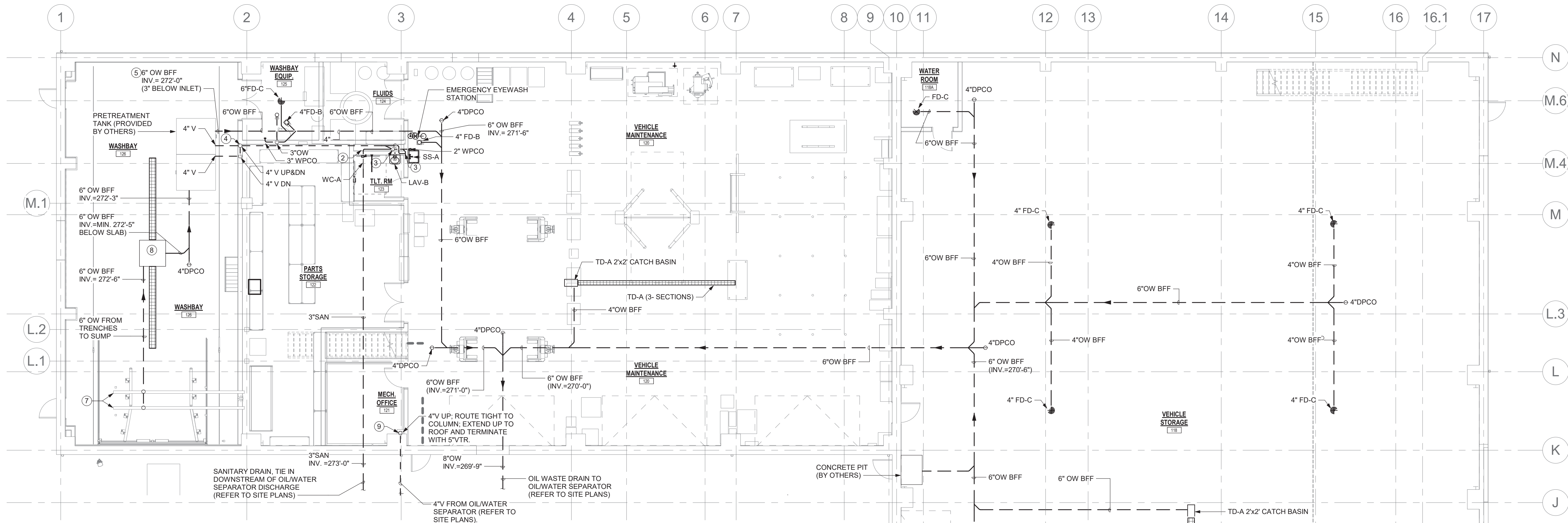
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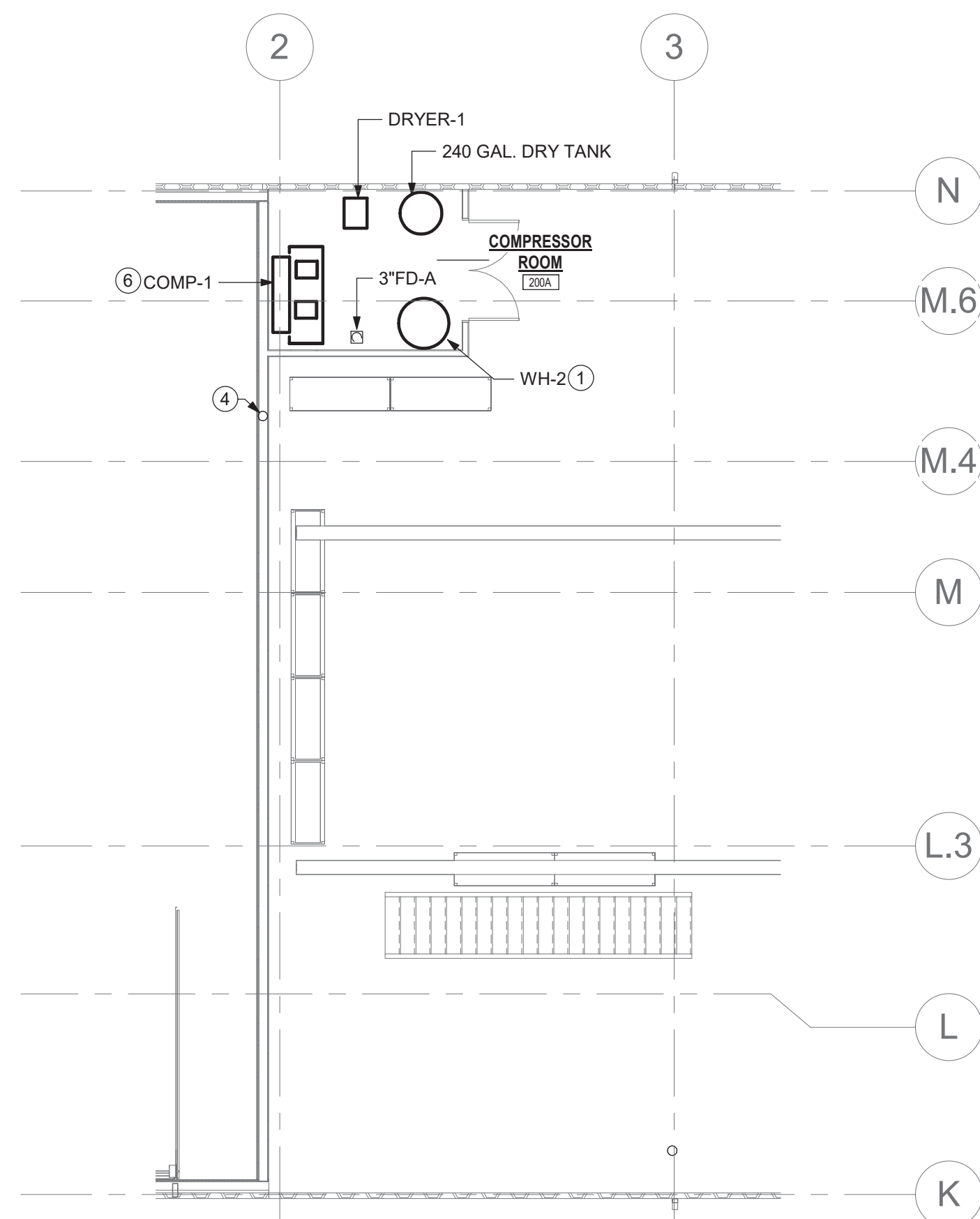
GENERAL NOTES,
SCHEDULES &
SYMBOL LIST

Sheet Number:

P001



1 PARTIAL PLUMBING PLAN "A" - SAN & VENT
1/8" = 1'-0"



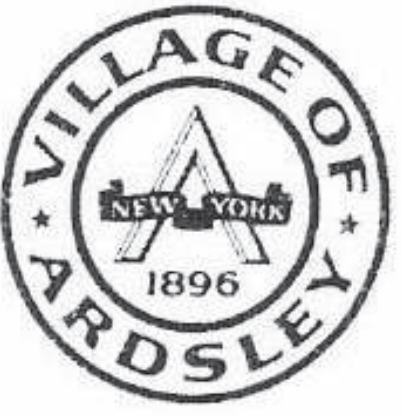
2 MEZZANINE 1 FLOOR PLAN - PLUMBING SAN & VENT
1/8" = 1'-0"

P101 DRAWING NOTES

- WH-2: ROUTE 3" AIR INTAKE AND EXHAUST PIPING THROUGH ROOF PER MANUFACTURER'S INSTRUCTIONS. ROUTE 3/4" CPVC CONDENSATE DRAIN TO CONDENSATE NEUTRALIZER AND DOWN TO FD-A. REFER TO DETAIL 6/P500 AND 5/P501 FOR MORE INFORMATION.
- 3"SAN DN, 2"V UP.
- 2"SAN DN, 1-1/2"V UP.
- 4"V UP, INCREASE TO 5" VTR.
- INVERTS REFERENCED FROM WASHBAY FLOOR SLAB OF 275'-0". VERIFY ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWING SET.
- PROVIDE 15HP RECIPROCATING COMPRESSOR WITH 120 GALLON RECEIVER, REFRIGERANT DRYER, AND 400 GALLON DRY STORAGE TANK, REFER TO SPECIFICATIONS.
- VEHICLE WASH UNDERCARRIAGE TRENCHES (FURNISHED BY OTHERS, INSTALLED BY THE PC).
- VEHICLE WASH SUMP AND TRENCH DRAINS (PROVIDED BY OTHERS).
- 4"V UP, ROUTE TIGHT TO COLUMN, EXTEND UP TO ROOF AND TERMINATE WITH 5"VTR.

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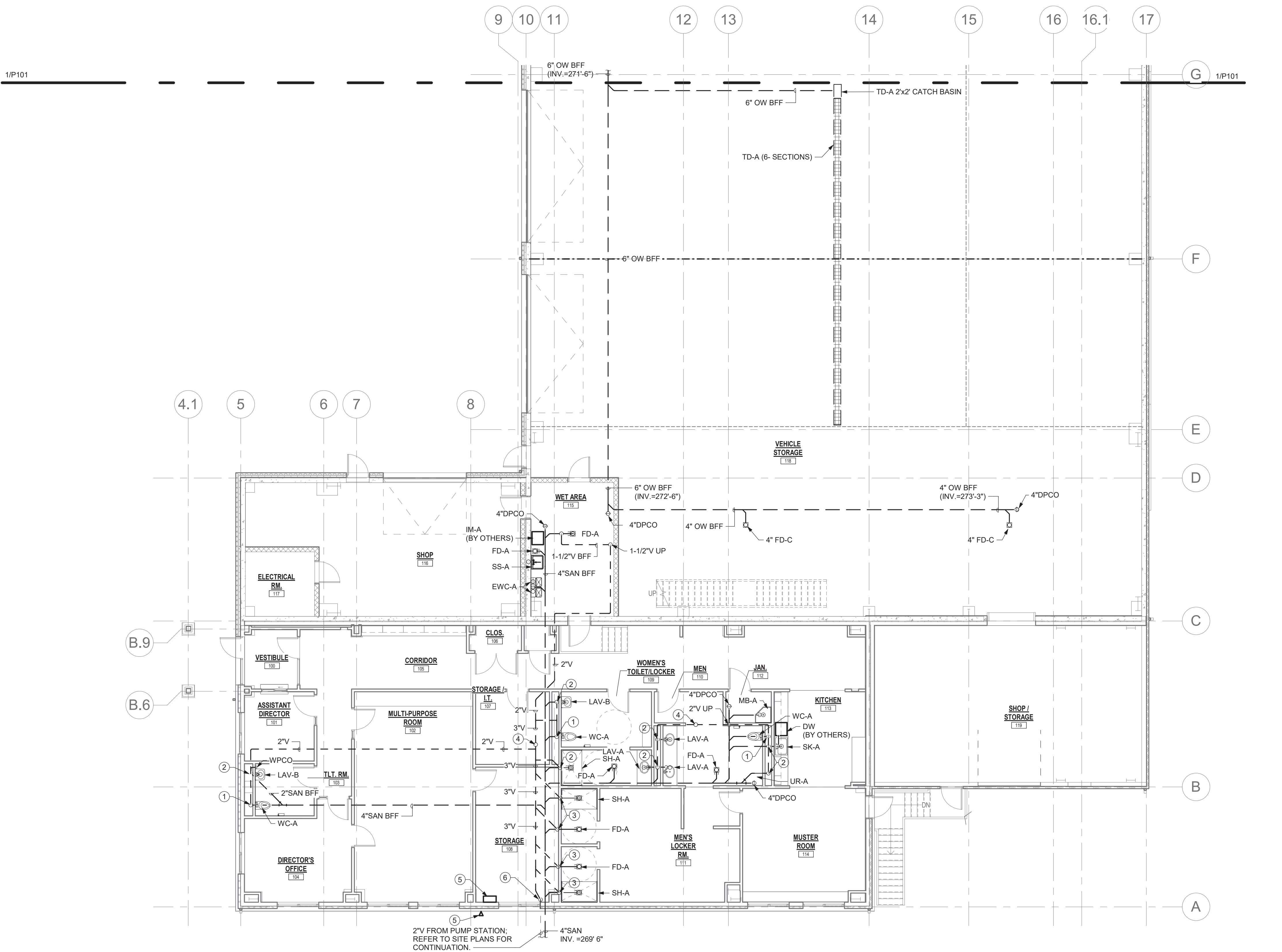
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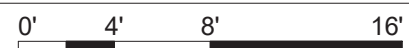
PARTIAL LARGE
SCALE PLUMBING
FLOOR PLANS
AREA "A" -
SANITARY & VENT

Sheet Number:

P101




1 PARTIAL LARGE SCALE FIRST FLOOR/ADMIN PLAN "B" SANITARY & VENT
1/8" = 1'-0"



P102 DRAWING NOTES

- 1 3" SAN DN; 2" V UP.
- 2 2" SAN DN; 1-1/2" V UP.
- 3 1-1/2" V UP.
- 4 3" V UP; 4" VTR.
- 5 PUMP STATION CONTROL PANEL AND EXTERNAL ALARM MODULE FURNISHED BY OTHERS. REFER TO THE CIVIL ENGINEERS CONTRACT DOCUMENTS AND DRAWINGS.
- 6 2" VENT FROM PUMP STATION. ROUTE TIGHT TO COLUMN UP. CONNECT TO BUILDING'S SANITARY VENT ABOVE CEILING.

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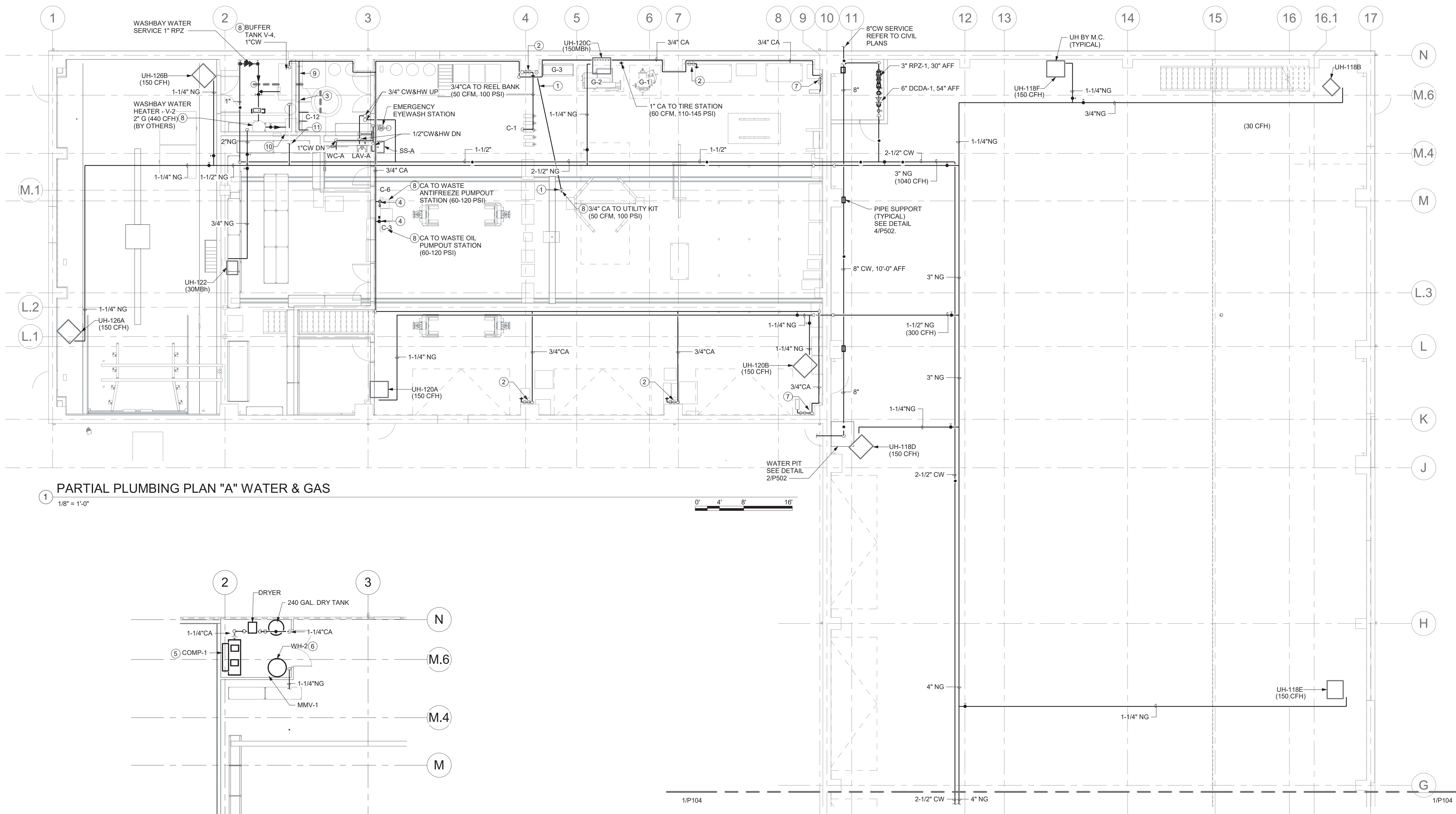
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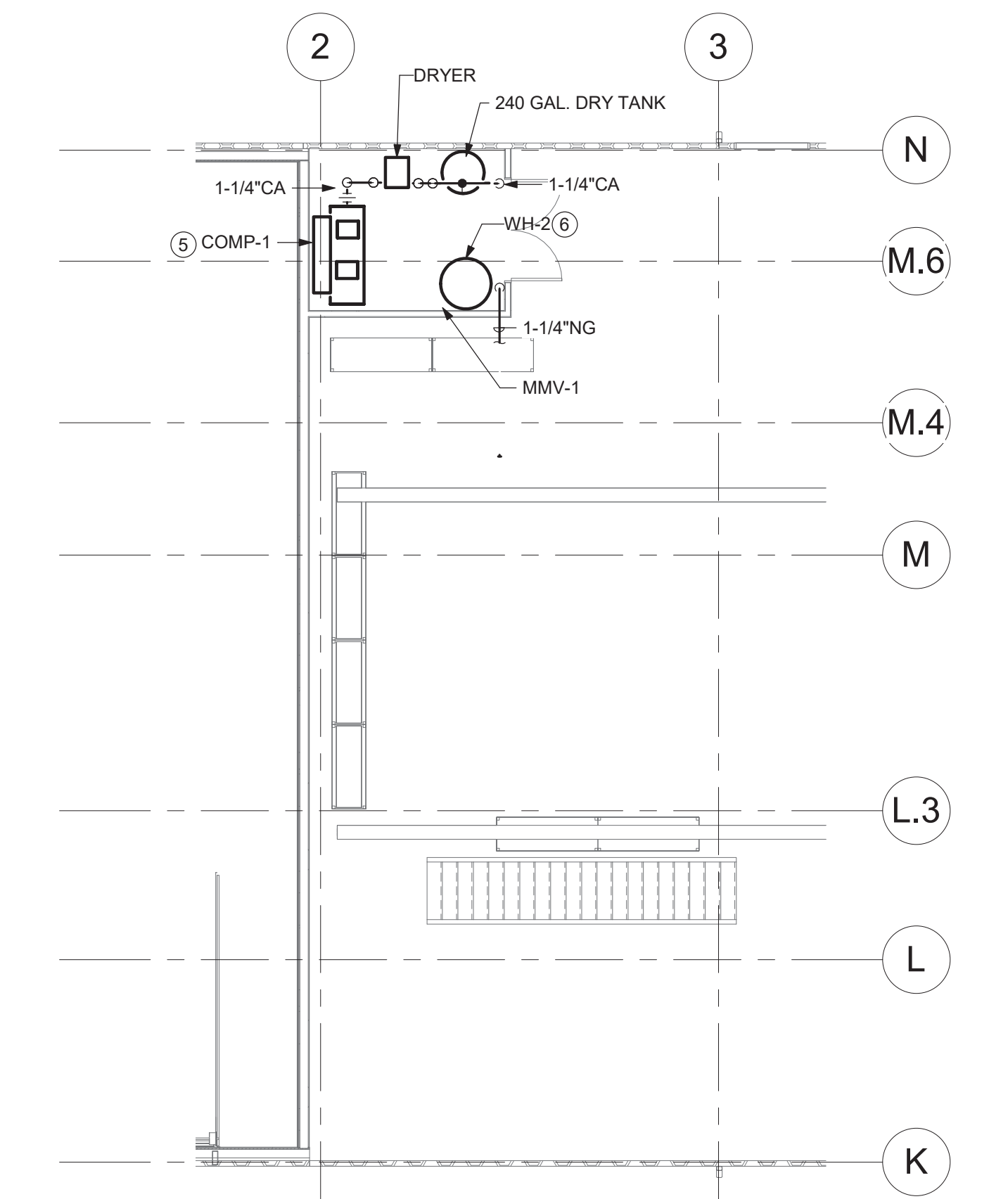
PARTIAL LARGE SCALE PLUMBING FLOOR PLANS - AREA "B" - SANITARY & VENT

Sheet Number:

P102



1 PARTIAL PLUMBING PLAN "A" WATER & GAS
1/8" = 1'-0"



2 MEZZANINE 1 FLOOR PLAN - PLUMBING WATER & GAS
1/8" = 1'-0"

P103 DRAWING NOTES

- 1 PROVIDE 2" PVC PIPE SLEEVE BELOW FINISHED FLOOR FOR ROUTING OF 3/4" PNEUMATIC HOSE TO SERVE THE VEHICLE LIFT STATION UTILITY KIT. COORDINATE LOCATION OF STUB UP WITH VEHICLE LIFT MANUFACTURER.
- 2 3/4" CA DROP TO 3/4" FILTER-REGULATOR-LUBRICATOR, MOUNTED 5'-0" AFF. TERMINATE WITH 3/4" QUICK DISCONNECT (50 CFM, 100 PSI)
- 3 INSTALL FUSIBLE HEAT ACTIVATED SHUT OFF VALVE AND MOTORIZED BALL VALVE IN MAIN CA LINE TO LUBE PUMPS. MOTORIZED BALL VALVE AND HEAT ACTIVATED SHUTOFF VALVE PROVIDED BY LUBE SYSTEM CONTRACTOR.
- 4 INSTALL MOTORIZED BALL VALVE IN CA LINE. MOTORIZED BALL VALVE PROVIDED BY LUBE SYSTEM CONTRACTOR.
- 5 PROVIDE 15HP RECIPROCATING COMPRESSOR WITH 120 GALLON RECEIVER, REFRIGERANT DRYER, AND 400 GALLON DRY STORAGE TANK, REFER TO SPECIFICATIONS.
- 6 PROVIDE 60 GALLON GAS FIRED MODULATING WATER HEATER, COMPLETE WITH EXPANSION TANK AND T&P RELIEF VALVE. ROUTE 1-1/4"HW TO EMERGENCY EYEWASH, SS-A AND LAV-A IN ROOMS BELOW. ROUTE 3/4"NATURAL GAS LINE FROM MAIN. REFER TO DETAIL 6/P500 FOR CONNECTIONS. REFER TO SPECIFICATIONS.
- 7 3/4" CA DROP TO 3/4" FILTER-REGULATOR-LUBRICATOR, MOUNTED 5'-0" AFF. TERMINATE WITH WALL MOUNTED 50FT 3/4" AIR REEL (50 CFM, 100 PSI)
- 8 PLUMBING CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO VEHICLE WASH EQUIPMENT. COORDINATE FINAL CONNECTION REQUIREMENTS WITH VEHICLE WASH EQUIPMENT INSTALLER.
- 9 3/4"CA TO FLUID TANK SYSTEM (7CFM @ 40PSI; 69CFM @ 90PSI; 10CFM @ 60PSI)
- 10 BUFFER TANK V-1 1"CW, 1/2" CA (6 CFM @ 90 PSI)
- 11 1-1/4"NG TO WH-2 (120CFH)

| Revisions: | | |
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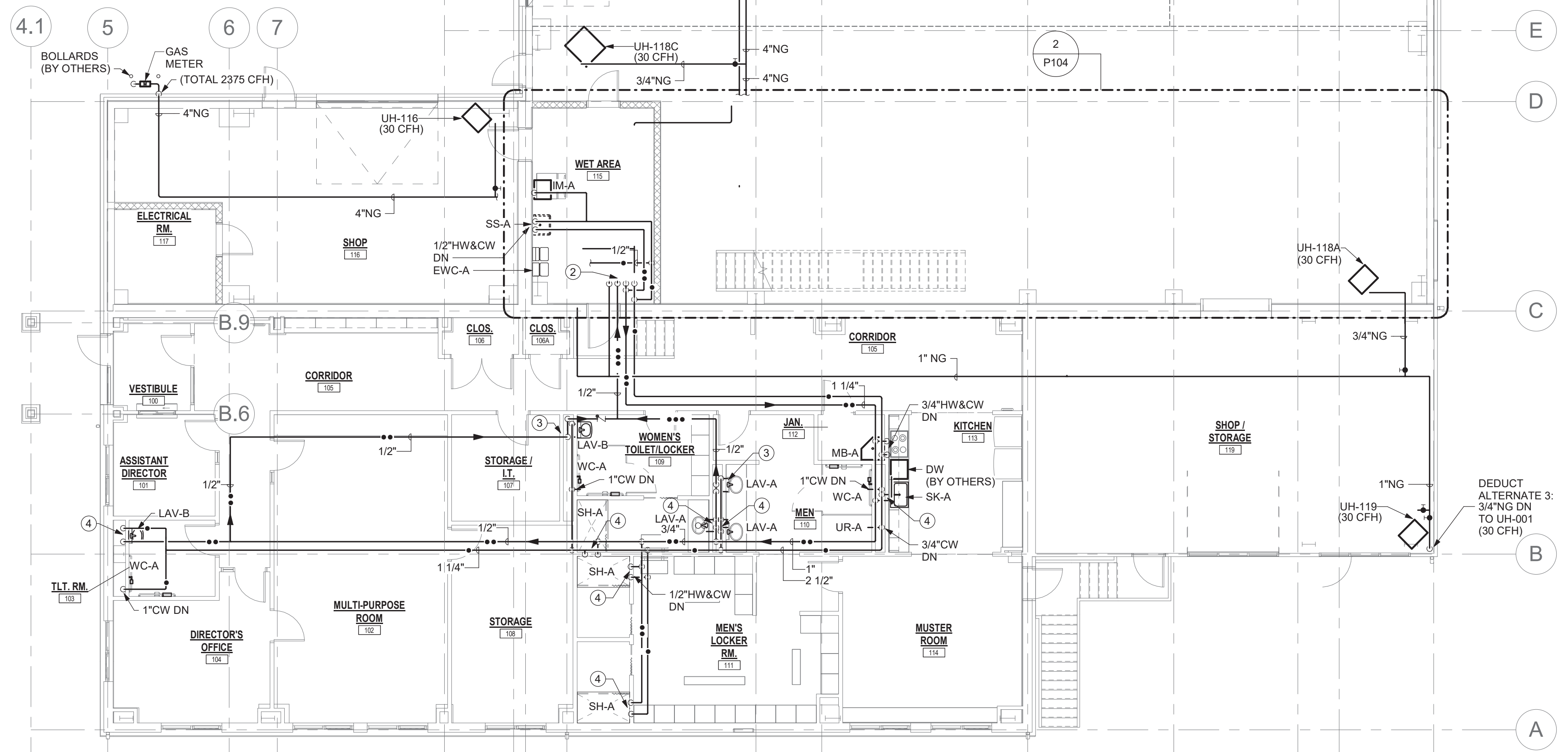
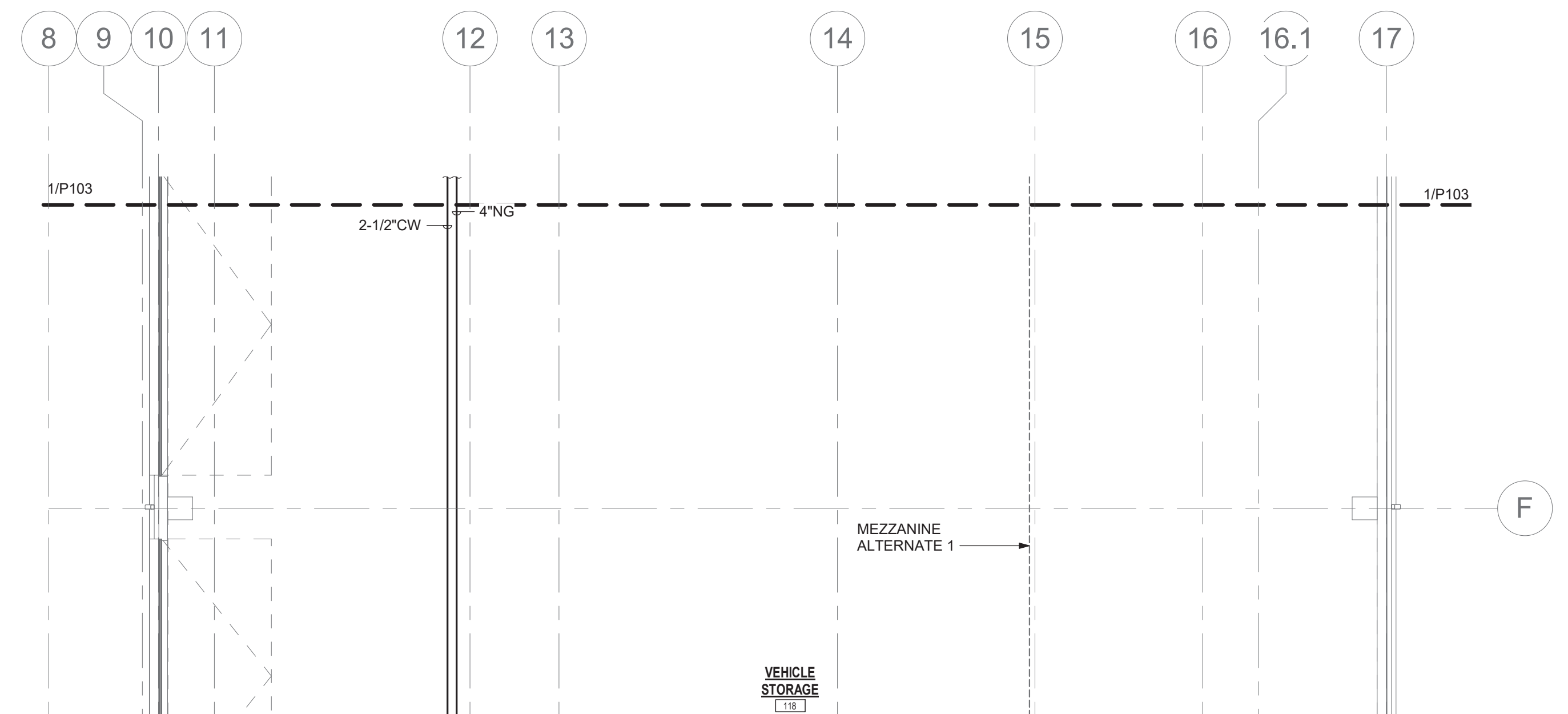


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Date: APRIL 7, 2022
Drawn By: CES
Reviewed By: PJW
Approved By: BAB
W&S Project No: N2190088

Drawing Title:
**PARTIAL LARGE
SCALE PLUMBING
FLOOR PLANS -
AREA "A" - WATER
AND GAS**

Sheet Number:

P103

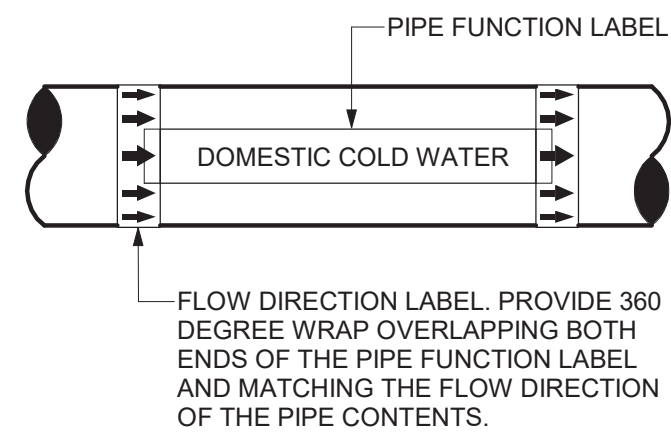


1 PROVIDE 60 GALLON GAS FIRED MODULATING WATER HEATER, COMPLETE WITH
EXPANSION TANK AND T&P RELIEF VALVE. INCLUDE RP-1. ROUTE HW, CW, AND HWR TO
FIRE ROOMS IN BLOWN DOWN. ROUTE 3/4" NATURAL GAS LINE FROM MAIN. REFER TO
DETAIL 6P500 FOR CONNECTIONS. REFER TO SPECIFICATIONS.

2 1"NG UP, 1/2"HWR UP, 1-1/2"HW UP, 2-1/2" CW UP

3 1/2"HW, CW&HWR DN

4 1/2"HW&CW DN



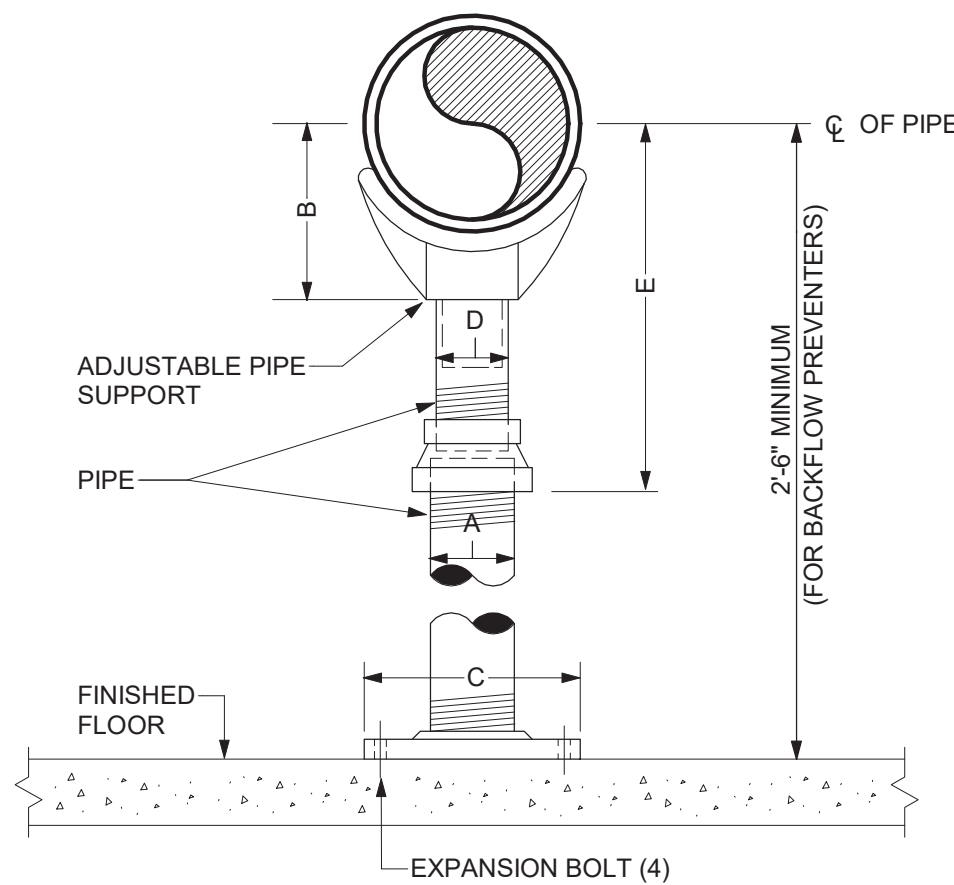
DETAIL NOTES:

- PROVIDE A PIPE LABEL FOR EACH PIPE FUNCTION.
- PROVIDE AT LEAST ONE LABEL ON EACH PIPE FOR EVERY ROOM THE PIPE PASSES THROUGH.
- PROVIDE LABELS IN LARGE SPACES ON MAXIMUM 20' CENTERS FOR EVERY PIPE UNLESS OTHERWISE NOTED IN THE SPECIFICATIONS.
- LABELS TO BE LOCATED IN AN EASILY VISIBLE LOCATION AS THEY WOULD NORMALLY BE SEEN. I.E. ON THE BOTTOM HALF OF PIPES IN THE AIR AND ON THE TOP HALF OR SIDES OF PIPES MOUNTED LOW.
- LABELS SHALL BE, COLOR CODED, PRE-PRINTED, SELF ADHESIVE VINYL.
- SEE SPECIFICATION FOR OTHER REQUIREMENTS AND LIST OF PIPE FUNCTIONS.

PIPING IDENTIFICATION LABEL DETAIL

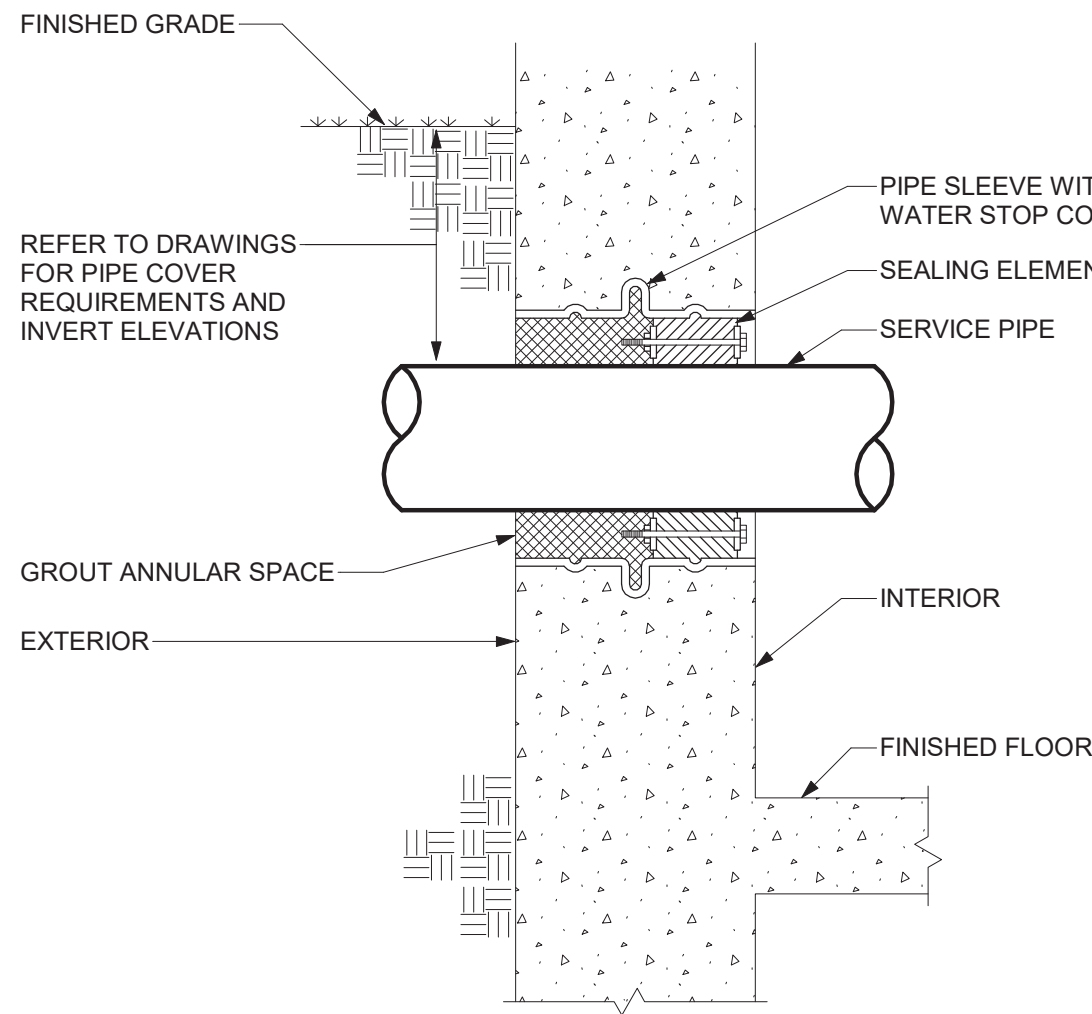
NOT TO SCALE

| PIPE SIZE | A | B | C | D | DIMENSION E | |
|-----------|----|----------|----|--------|-------------|-----------|
| | | | | | MINIMUM | MAXIMUM |
| 4" | 3" | 4 3/16" | 9" | 2 1/2" | 9 1/4" | 1'-2" |
| 6" | 3" | 5 7/16" | 9" | 2 1/2" | 10 1/2" | 1'-3 1/4" |
| 8" | 3" | 6 15/16" | 9" | 2 1/2" | 11 3/4" | 1'-4 1/2" |



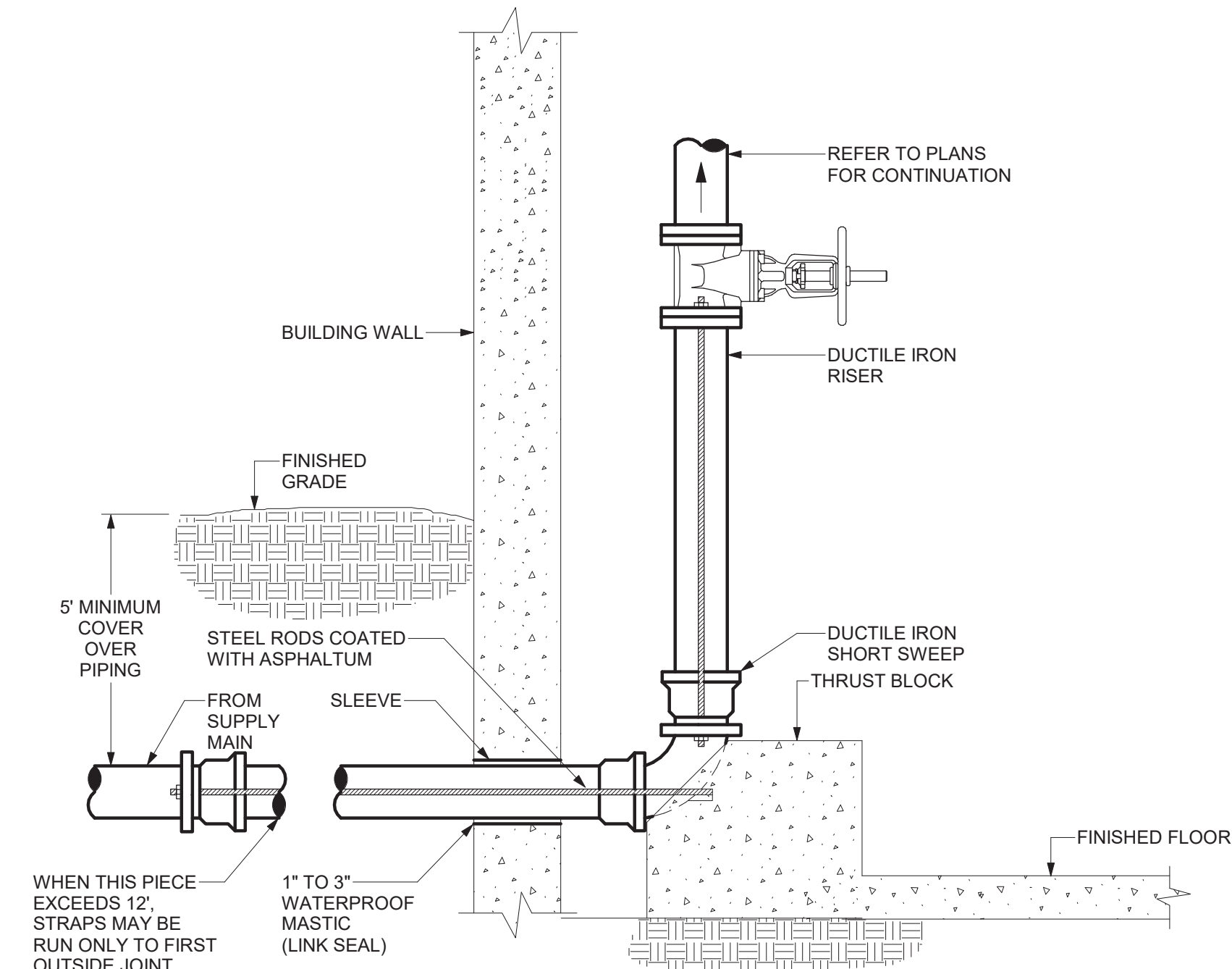
ADJUSTABLE PIPE SUPPORT DETAIL

NOT TO SCALE



PIPE THRU NEW EXTERIOR WALL DETAIL

NOT TO SCALE

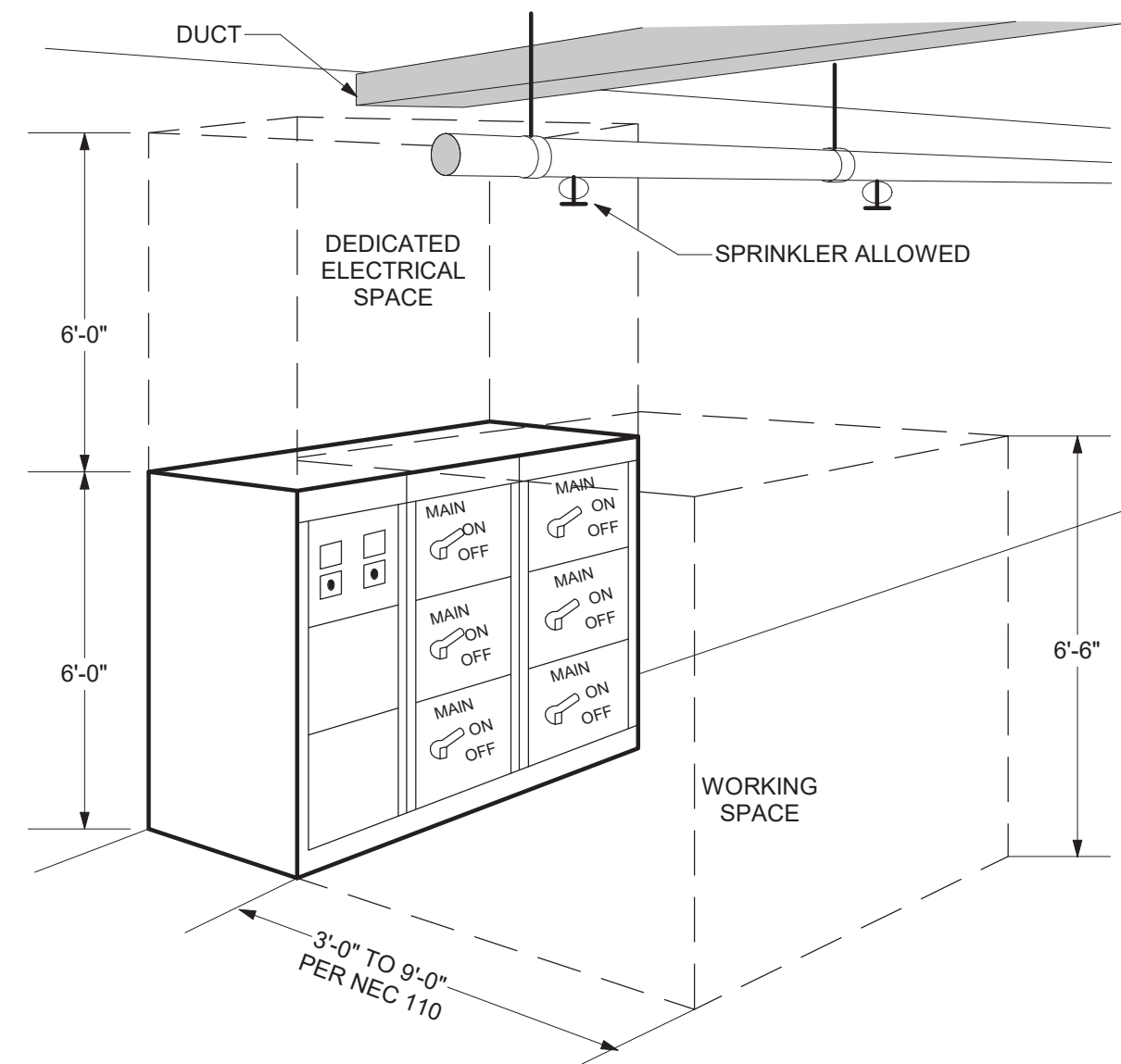


DETAIL NOTE:

- ROD IN COMPLIANCE WITH AMERICA WATER WORKS ASSOCIATION STANDARDS.

WATER SERVICE DETAIL

NOT TO SCALE

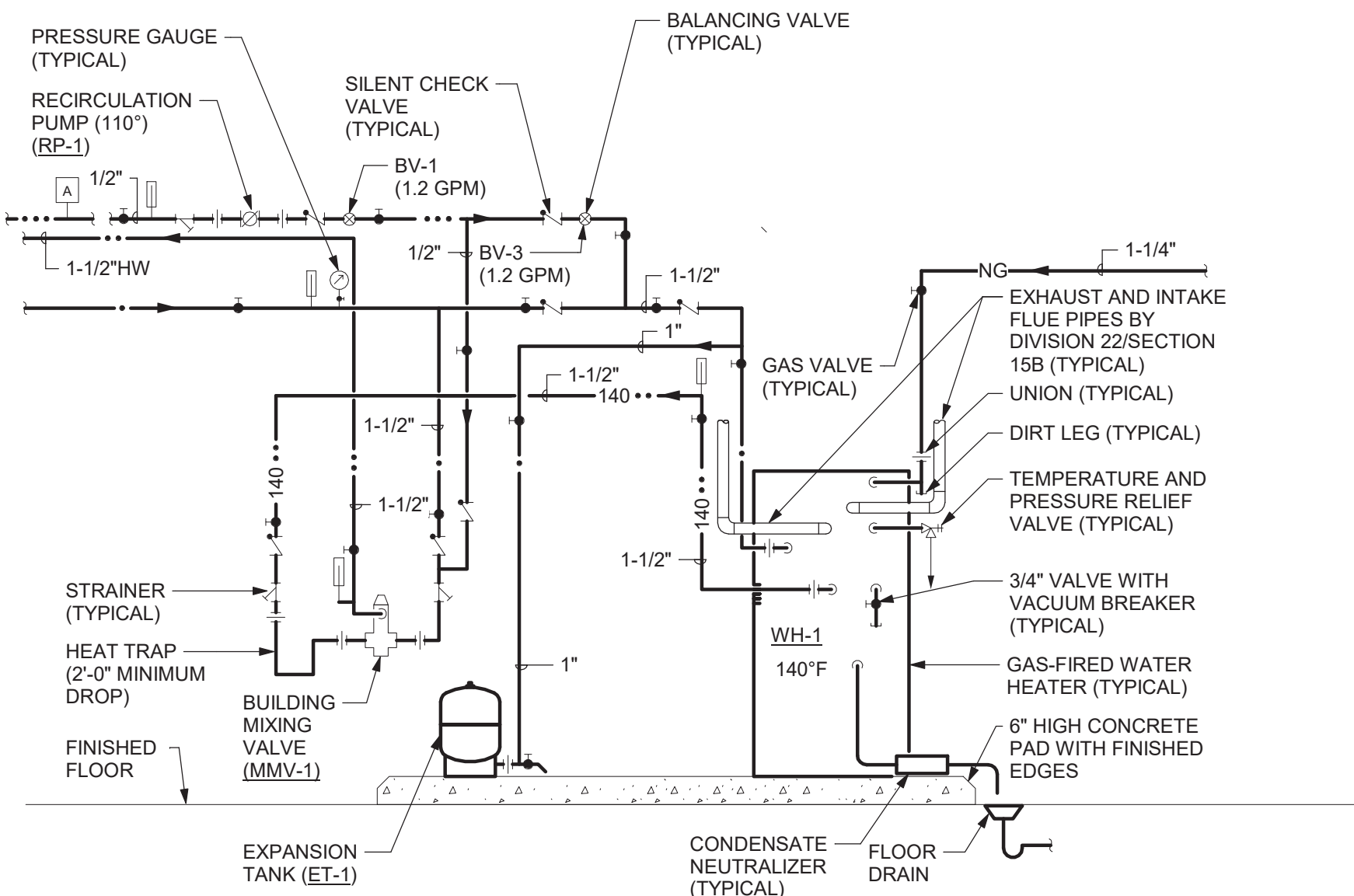
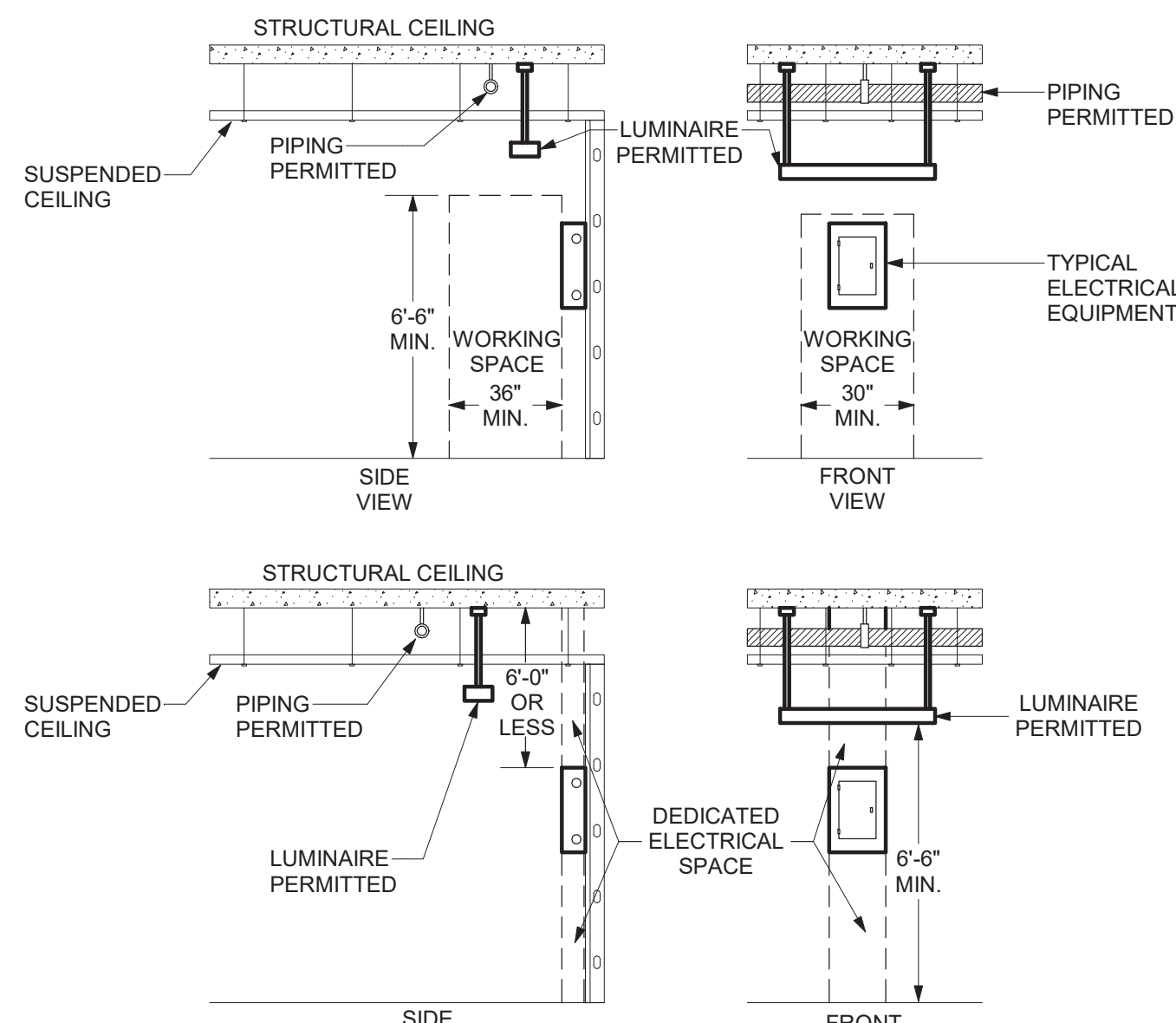


DETAIL NOTES:

- ELECTRICAL EQUIPMENT INCLUDES PANELS, TRANSFORMERS, DISCONNECTS, STARTERS, MOTOR CONTROL CENTERS, SWITCHGEAR, ADJUSTABLE SPEED DRIVES, AND FUSED SWITCHES (THIS ALSO APPLIES TO ELECTRICAL GEAR MOUNTED DIRECTLY ON MECHANICAL EQUIPMENT).
- DEDICATED ELECTRICAL SPACE IS DEFINED BY NEC 110.
- NO PIPING OR DUCTWORK MAY BE INSTALLED IN DEDICATED ELECTRICAL SPACE OR WORKING SPACE.

PIPING OVER ELECTRICAL EQUIPMENT DETAIL

NOT TO SCALE

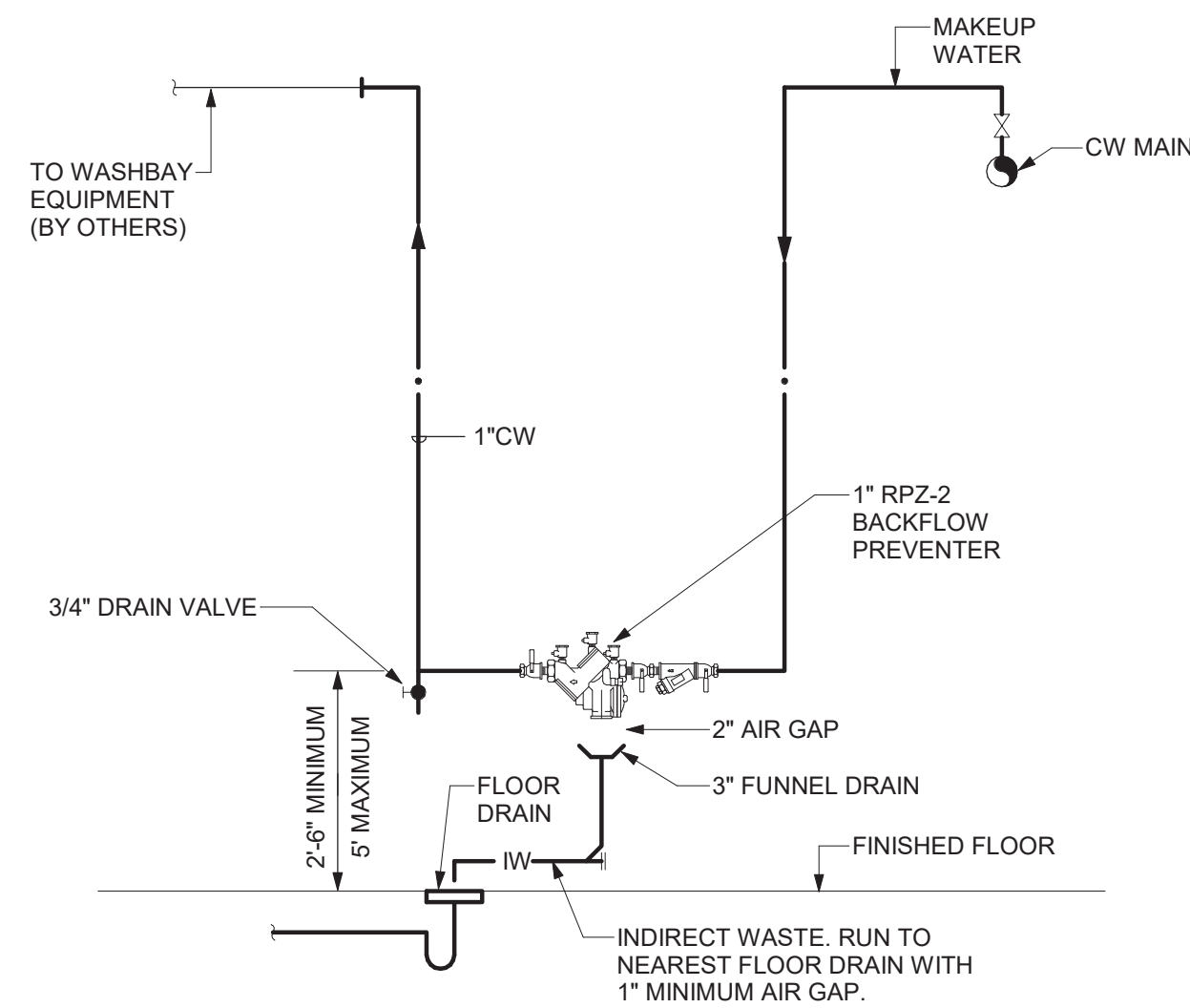


DETAIL NOTES:

- INSTALL PIPING TO ALLOW FOR FUTURE REMOVAL OF WATER HEATERS.
- RELIEF VALVE DISCHARGE PIPE SIZE SHALL MATCH VALVE OUTLET SIZE - TERMINATE ABOVE FLOOR DRAIN WITH CODE REQUIRED AIR GAP.
- REFER TO EXPANSION TANK DETAIL 1/P501.
- PROVIDE AQUASTAT WITH DOMESTIC HOT WATER DISTRIBUTION SYSTEM, AND PROVIDE NECESSARY WIRING TO INTERLOCK WITH HEATER CONTROLS.
- PIPING CONFIGURATION BASED ON CONDENSING WATER HEATER.
- PROVIDE WITH CONDENSATE NEUTRALIZER. CONNECT 3/4" CPVC PIPING TO WATER HEATER AND NEUTRALIZER. TERMINATE CONDENSATE DRAIN ABOVE FLOOR DRAIN WITH CODE REQUIRED AIR GAP.
- WATER HEATER DETAILS SIMILAR FOR WH-2 EXCEPT WITHOUT HWR RECIRCULATION LOOP.

WATER HEATER COMMERCIAL GAS TANK CONDENSING TYPE DETAIL

NOT TO SCALE



DETAIL NOTES:

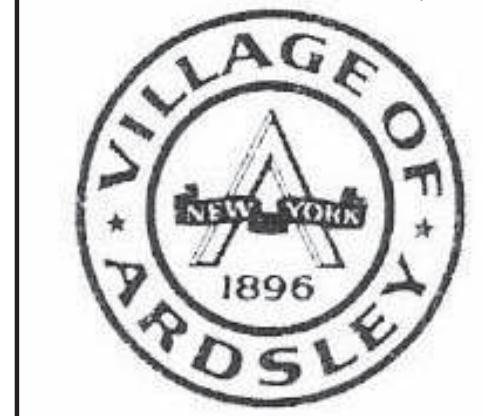
- BACKFLOW PREVENTER SHALL BE LOCATED UPSTREAM OF ALL CONNECTIONS TO HVAC EQUIPMENT.
- PROVIDE PROPER SUPPORTS FOR BACKFLOW PREVENTER AND PIPING.
- PROVIDE 8" CLEARANCE BEHIND BACKFLOW PREVENTER, 1' ABOVE AND 2'-6" CLEARANCE IN FRONT OF DEVICE.
- THE INSTALLATION OF A FIXED AIR GAP FITTING IS NOT ACCEPTABLE FOR USE ON DRAIN LINE. PROVIDE FUNNEL DRAIN AS INDICATED.
- PAINT SUPPORTS WITH ONE (1) PRIMER AND TWO (2) FINISH COATS OF COLOR AS SPECIFIED.

MAKE-UP WATER BACKFLOW PREVENTER DETAIL

NOT TO SCALE

Project:

VILLAGE OF ARDSLEY, NY



NEW PUBLIC WORKS FACILITY

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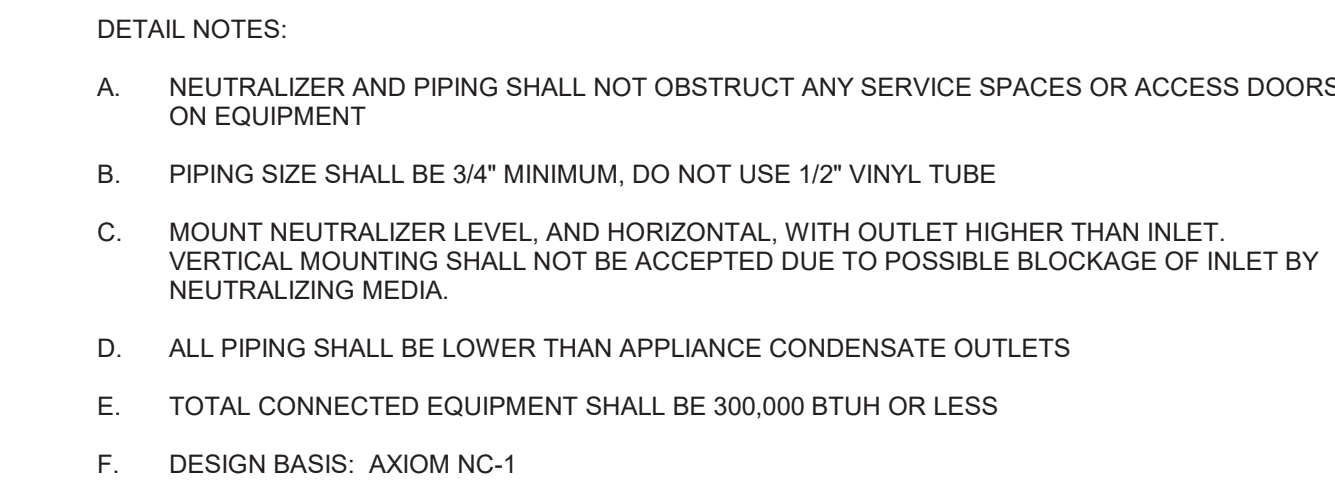
W&S Project No: N2190088

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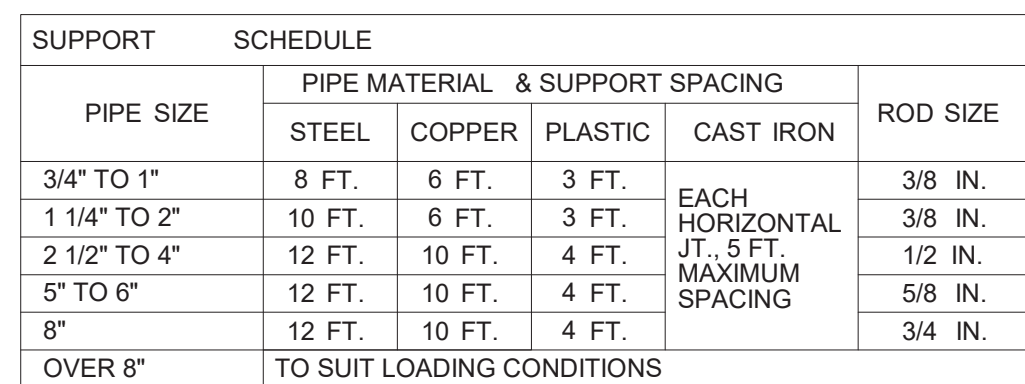
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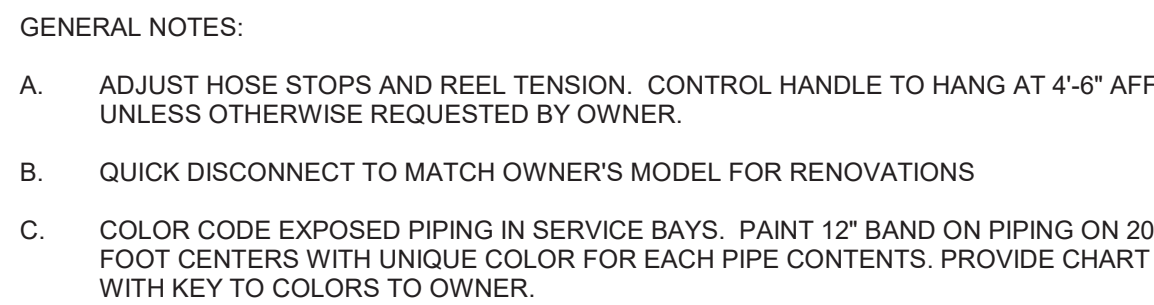
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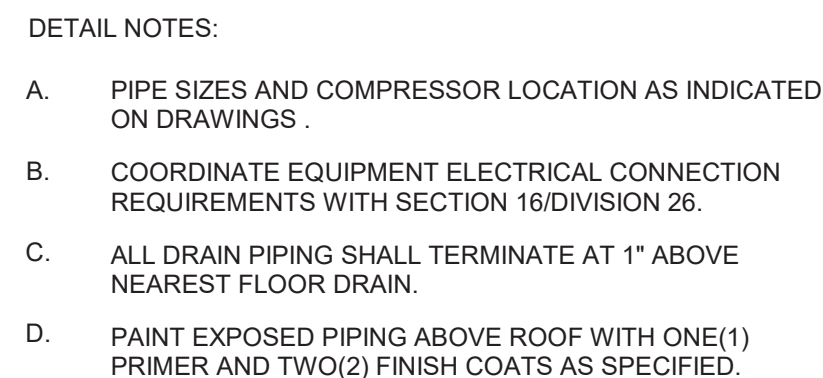
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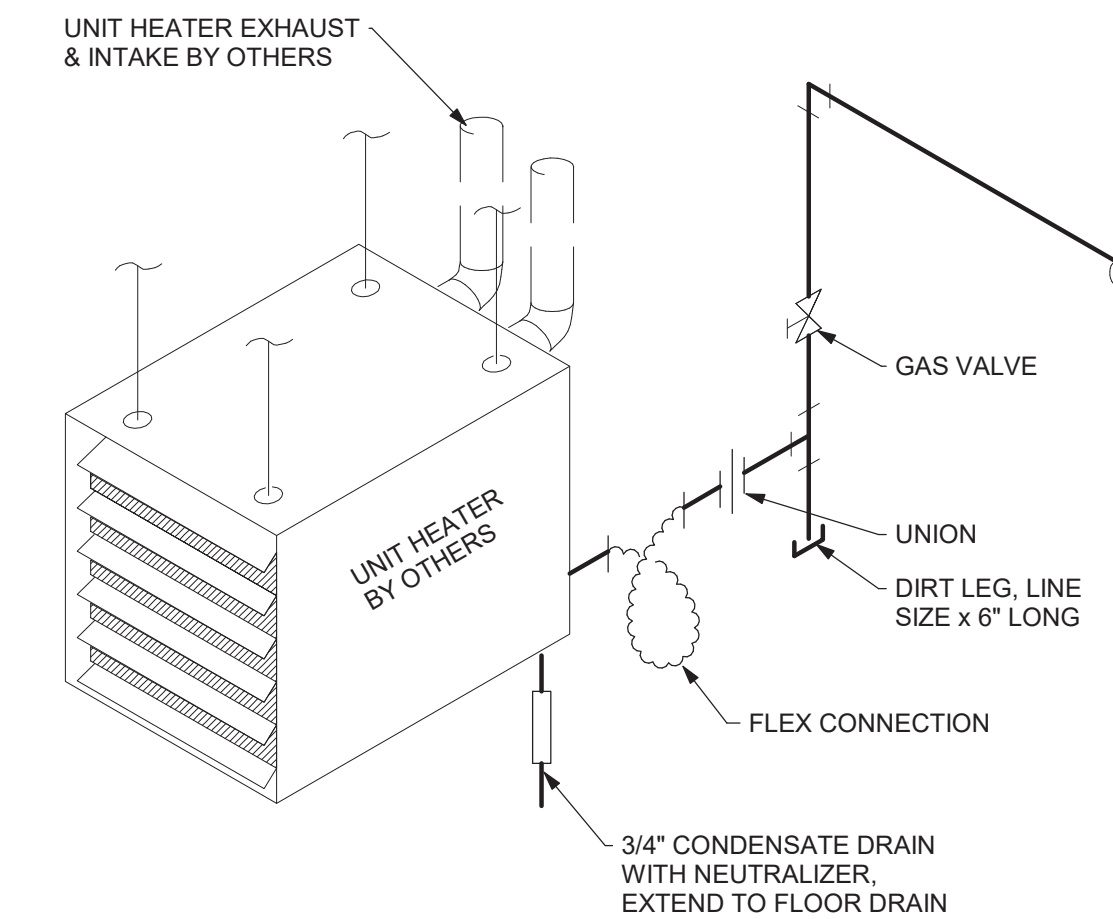
PIPE HANGER AND SPACING DETAILS - STEEL STRUCTURE



6 NOT TO SCALE



10 NOT TO SCALE



DETAIL NOTES:

A. DESIGN BASIS: REZNOR MODEL UEAS

UNIT HEATER GAS PIPING DETAIL - CONDENSING TYPE

NOT TO SCALE



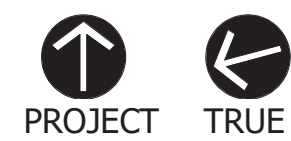
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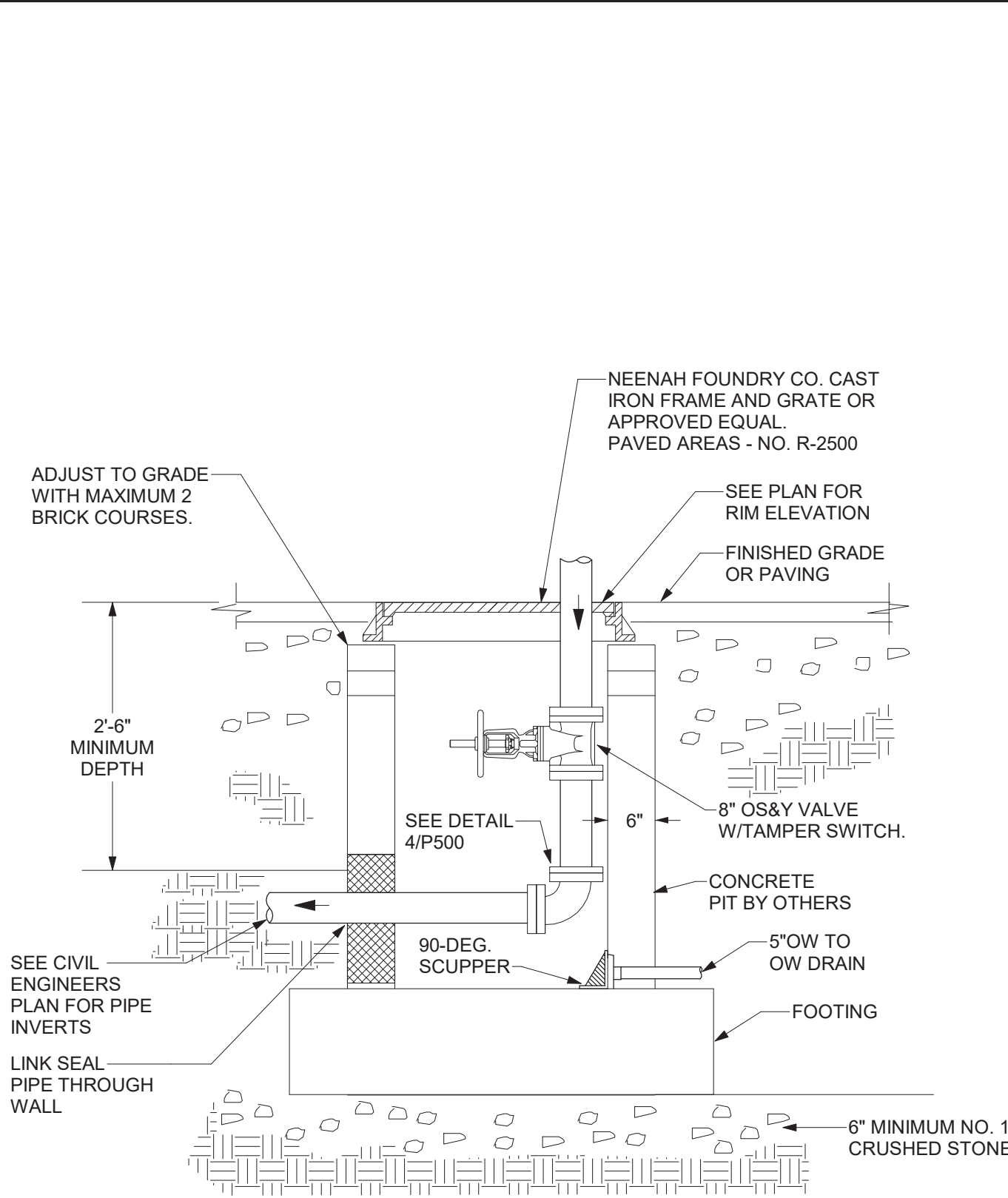
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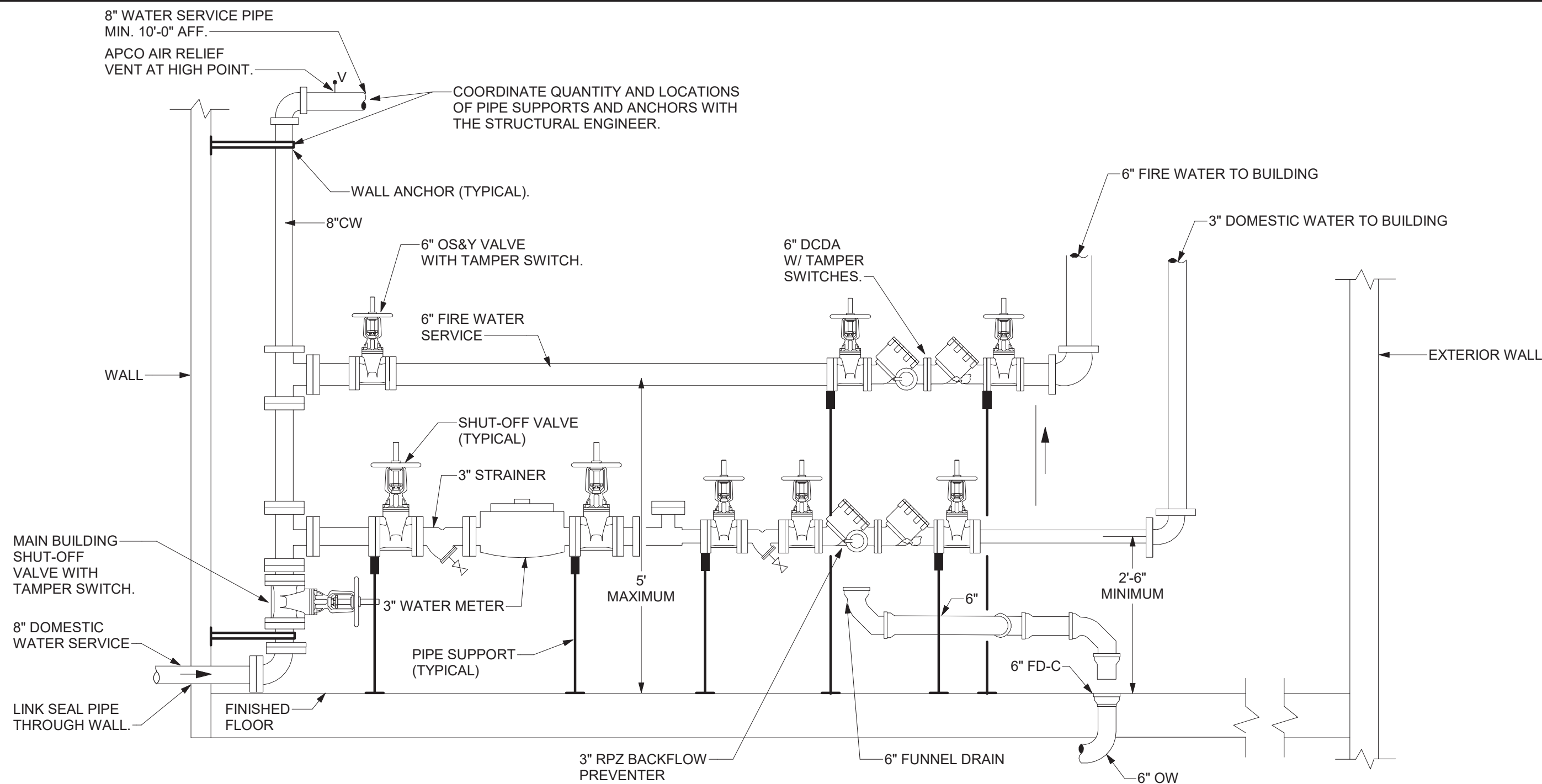


DETAIL NOTES:

- COAT INTERIOR WITH TWO (2) APPLICATIONS OF SIKA GUARD 664/9 HI-BILD EPOXY COATING OR APPROVED EQUAL.
- COAT EXTERIOR WITH TWO (2) APPLICATIONS OF KOPPER SUPER SERVICE BLACK, BITUMASTIC COATING OR APPROVED EQUAL.
- SCUPPER DRAIN SHALL BE JOSAM 24700 90-DEGREE SCUPPER DRAIN OR EQUAL.

2 WATER PIT DETAIL

NOT TO SCALE

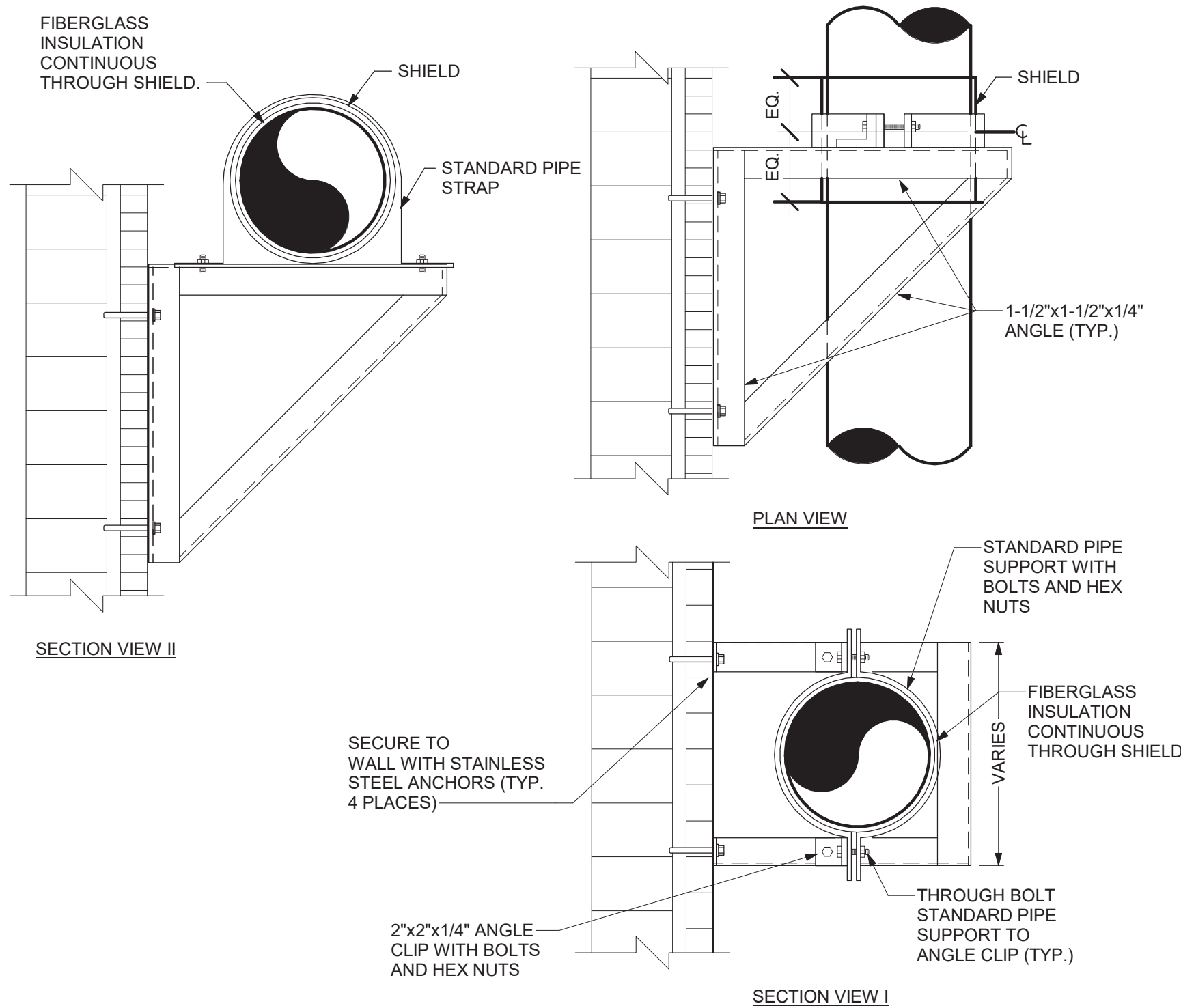


DETAIL NOTES:

- PROVIDE PROPER SUPPORTS FOR BACKFLOW PREVENTERS, WATER METER AND PIPING.
- PROVIDE 8" CLEARANCE BEHIND BACKFLOW PREVENTERS, 1'-0" ABOVE AND 2'-6" CLEARANCE IN FRONT OF DEVICES.
- THE INSTALLATION OF FIXED AIR GAP FITTINGS ARE NOT ACCEPTABLE FOR USE ON DRAIN LINES. PROVIDE FUNNEL DRAINS AS INDICATED.
- PAINT SUPPORTS WITH ONE (1) PRIMER AND TWO (2) FINISH COATS OF COLOR AS SPECIFIED.
- PROVIDE FIXED PLATFORM SHOULD THE UPPER BACKFLOW PREVENTER BE INSTALLED HIGHER THAN 5'-0" ABOVE FINISHED FLOOR. HEIGHT OF UPPER BACKFLOW PREVENTER FROM TOP OF PLATFORM SHALL NOT EXCEED 5'-0".
- HEAT AND LIGHT ARE PROVIDED IN THE AREA OF THE BACKFLOW PREVENTERS.
- PROVIDE SPOOL PIECES AT INLET AND OUTLET OF METER AS RECOMMENDED BY METER MANUFACTURER.

1 COMBINED WATER SERVICE ENTRANCE DETAIL

NOT TO SCALE

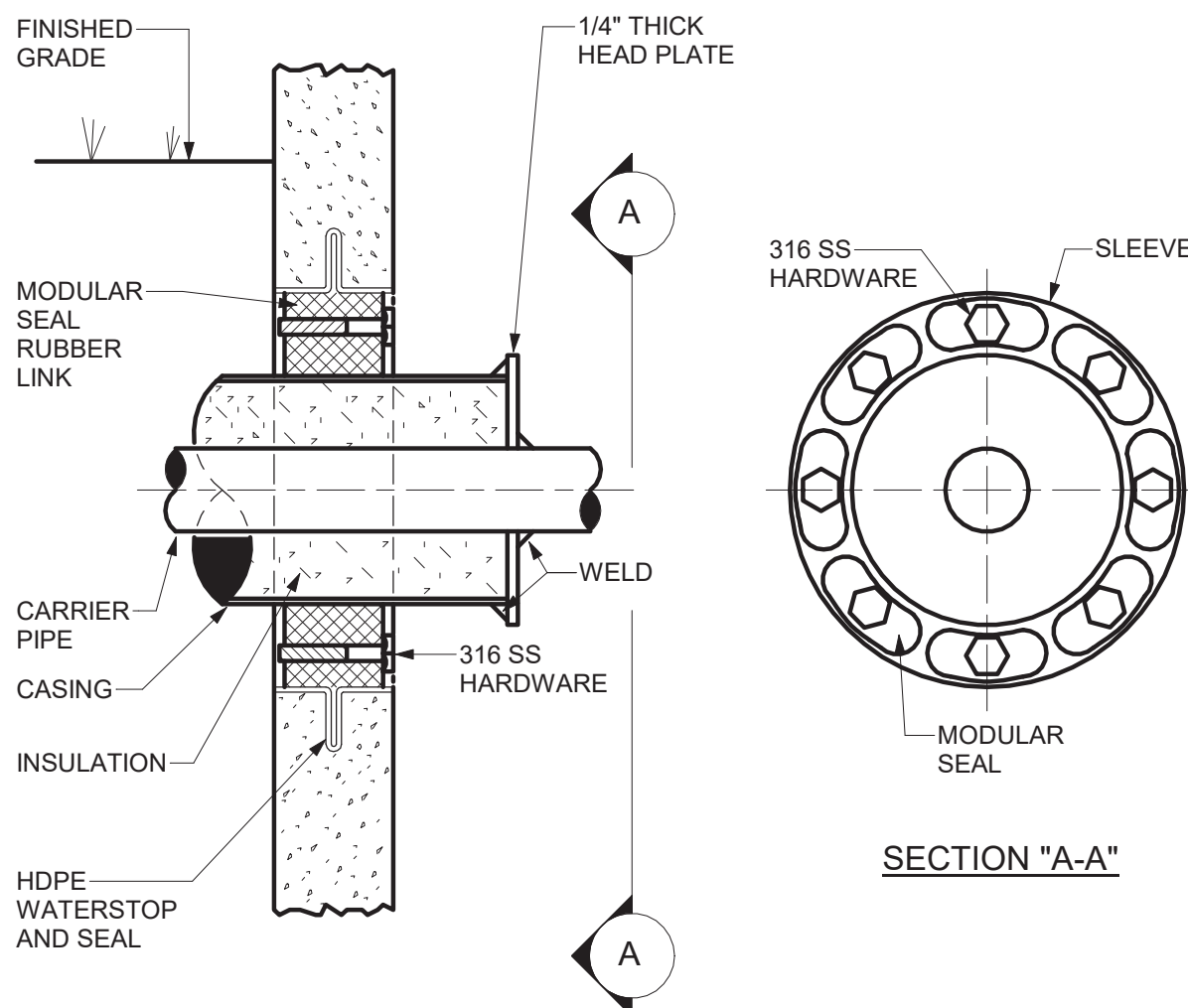


DETAIL NOTES:

- ALL FASTENERS AND APPURTENANCES TO BE 316 STAINLESS STEEL.
- PAINT ANGLE IRON WITH TWO COATS OF RUST INHIBITIVE PRIMER AND ONE FINISH COAT.
- COORDINATE QUANTITY AND LOCATION OF PIPE SUPPORTS WITH THE STRUCTURAL ENGINEER.

4 VERTICAL AND HORIZONTAL PIPESUPPORT DETAIL - WALL-MOUNTED

NOT TO SCALE



DETAIL NOTES:

- COORDINATE SLEEVE LOCATION AT TIME OF CONCRETE POUR.

3 BELOW GRADE WALL PENETRATION DETAIL - NEW CONSTRUCTION

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