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FITZGERALD COLLABORATIVE

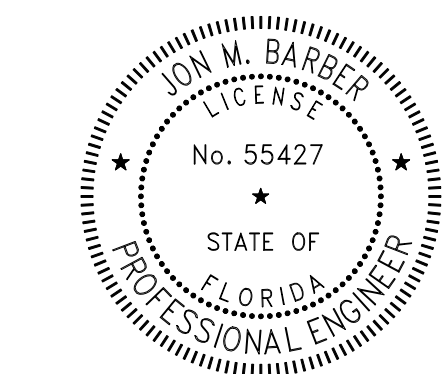
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This item has been digitally signed and sealed by Jon Barber, PE on 11/13/24. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

| NO. | DESCRIPTION | DATE |
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PERMIT DOCUMENTS

LEON COUNTY SCHOOLS

PROJECT TITLE

LCS NIMS MIDDLE SCHOOL

723 W Orange Avenue,
Tallahassee, FL 32310

PROJECT NUMBER

240202

ISSUE DATE

11/11/2024

DRAWING TITLE

PLUMBING NOTES AND LEGEND

SHEET NUMBER

P100

PLUMBING NOTES

- GENERAL CONDITIONS**
- SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
 - CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS REQUIRED TO COMPLETE ALL WORK SHOWN ON THE CONTRACT DRAWINGS.
 - ALL CONSTRUCTION SHALL CONFORM TO APPLICABLE CODE STANDARDS INCLUDING:
FLORIDA BUILDING CODE, BUILDING, 8TH EDITION (2023)
FLORIDA BUILDING CODE, PLUMBING, 8TH EDITION (2023)
FLORIDA BUILDING CODE, MECHANICAL, 8TH EDITION (2023)
FLORIDA FIRE PREVENTION CODE, 8TH EDITION (2023)
FLORIDA BUILDING CODE, ENERGY CONSERVATION CODE, 8TH EDITION (2023)
NEPA 70, NATIONAL ELECTRIC CODE (NEC) 2020 EDITION
SREF 2014 - STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES
STATE AND LOCAL CODES AND ORDINANCES
 - THE BIDDERS SHALL INSPECT THE PRESENT JOB SITE CONDITIONS BEFORE PREPARING A BID. THE SUBMISSION OF A BID WILL BE CONSIDERED EVIDENCE THAT SUCH A VISIT AND INSPECTION WAS PERFORMED BY THE BIDDER AND THAT HE TAKES FULL RESPONSIBILITY FOR ALL FACTORS GOVERNING HIS WORK.
 - THE CONTRACTOR IS EXPECTED TO PROVIDE PROFESSIONAL WORK PERFORMED IN ACCORDANCE WITH INDUSTRY STANDARDS AND GOOD PRACTICE. WORK SHALL CONFORM TO THE MANUFACTURER'S INSTRUCTIONS AND THE REQUIREMENTS OF THE LOCAL HEALTH DEPARTMENT.
 - THE CONTRACTORS ARE EXPECTED TO FIELD VERIFY ALL DIMENSIONS. CONTRACTORS ARE EXPECTED TO ACCOUNT FOR FIELD CONDITIONS. CONTRACTORS ARE EXPECTED TO COORDINATE IN ORDER TO AVOID INTERFERENCE BETWEEN TRADES. CONTRACTORS ARE EXPECTED TO INSTALL EQUIPMENT SUCH THAT PROPER MAINTENANCE CLEARANCES ARE MAINTAINED FOR EQUIPMENT OF ALL TRADES. IF CHANGES TO THE CONTRACT DOCUMENTS ARE NECESSARY TO AVOID CONFLICTS, THE CONTRACTOR IS RESPONSIBLE FOR REQUESTING CLARIFICATION IN A TIMELY FASHION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DEFICIENCIES ASSOCIATED WITH WORK PERFORMED BEFORE OBTAINING CLARIFICATION.
 - UPON COMPLETION OF THE WORK THE CONTRACTOR SHALL CLEAN SPACES THAT WERE OCCUPIED BY TEMPORARY WORK AND TEMPORARY FACILITIES. REMOVE DEBRIS, RUBBISH AND EXCESS MATERIALS FROM THE SITES. REPAIR DAMAGES CAUSED BY INSTALLATION OR USE OF TEMPORARY FACILITIES.
- GENERAL PLUMBING NOTES**
- PLUMBING PLANS ARE SCHEMATIC. LOCATE PIPING TO AVOID FIELD INTERFERENCES. CHANGES IN THE PIPING SCHEMATIC REQUIRE PRIOR APPROVAL OF THE ENGINEER.
 - TRANSITION CONNECTION BETWEEN SITE PIPING AND BUILDING PLUMBING SHALL OCCUR IN AN ACCESSIBLE GREEN SPACE.
 - THE CONTRACTOR IS EXPECTED TO VERIFY DIMENSIONS AND FIELD FABRICATE PIPING AS NECESSARY TO ACCOMMODATE CONDITIONS.
 - PRIOR TO ANY NEW WORK THE CONTRACTOR SHALL VERIFY BY ALL MEANS AVAILABLE THE DIRECTION OF FLOW OF ALL EXISTING PIPING THAT WILL BE TIED INTO FOR THE NEW WORK. REPORT TO THE ENGINEER ANY DIFFERENCES FROM WHAT THE CONTRACT DOCUMENTS SHOW.
- MATERIALS AND DEVICES**
- ALL MATERIALS, EQUIPMENT AND APPARATUS COVERED BY THIS SPECIFICATION SHALL BE NEW, OF CURRENT MANUFACTURE.
 - SEE PROJECT SPECIFICATIONS FOR MATERIALS.
 - CONNECTION JOINTS BETWEEN PLASTIC AND METALLIC PIPE SHALL BE MADE WITH TRANSITION FITTINGS FOR THE SPECIFIC PURPOSE.
 - CONNECTIONS TO WATER HEATERS AND BETWEEN FERROUS AND NONFERROUS METALLIC PIPE SHALL BE MADE WITH DIELECTRIC FITTINGS.
- PIPING NOTES**
- INSTALL GRAVITY LINES AT UNIFORM GRADES.
 - INSTALL SLEEVES AT ALL PENETRATIONS WHERE CONCRETE MIGHT CONTACT COPPER PIPING. PROVIDE SLEEVES AND SEAL ALL PENETRATIONS OF FULL HEIGHT WALLS AIR TIGHT. PROVIDE SLEEVES AT ALL PENETRATIONS OF FLOOR. PROVIDE POLY PIPE COVER OR INSULATION WHERE COPPER PIPING IS ENCASED WITHIN CMU WALLS.
 - LOCATE ALL VALVES AND OTHER DEVICES WHICH REQUIRE MAINTENANCE IN ACCESSIBLE LOCATIONS. PROVIDE ACCESS PANELS IF NECESSARY.
 - PIPING INSTALLATIONS ARE EXPECTED TO BE RIGID. SUPPORT AND SECURE PIPING IN ACCORDANCE WITH GOOD PRACTICE.
 - SEE SPECIFICATIONS FOR HOT WATER PIPING INSULATION REQUIREMENTS. PROFESSIONAL INSTALLATION IS EXPECTED.
 - LABEL ALL HOT, TEMPERED & COLD DOMESTIC WATER SUPPLY & RETURN PIPING AT EACH VALVE LOCATION & NO LESS THAN 20' O.C.
 - HOT WATER PIPE INSULATION SHALL BE RIGID GLASS FIBER INSULATION WITH A NOMINAL DENSITY OF 3 POUNDS PER CUBIC FOOT WITH A THERMAL CONDUCTIVITY BETWEEN 0.21 AND 0.28 AT 100 DEG F MEAN TEMPERATURE. INSULATION COVER SHALL BE AN ALL SERVICE JACKET WITH DOUBLE SELF-SEALING LAPS. WITH SELF-SEALING BUTT STRIPS. INSULATION THICKNESS SHALL BE ONE INCH (1") THICK FOR PIPE SIZES 3/4" TO 1-1/2", AND (1-1/2") THICK FOR PIPE SIZES 1-1/2" TO 4" PER FBC-PLUMBING 607.5 AND FBC-ENERGY CONSERVATION TABLE C403.2.10.
- FIXTURES AND TRIM:**
- EQUIPMENT SHALL BE UNDAMAGED AND CLEANED.
 - ALL EXPOSED SINK AND LAVATORY DRAIN PIPING SHALL BE CHROME PLATED BRASS NO LESS THAN 17 GAUGE. TRAPS SHALL BE 17 GAUGE FULLY CAST BRASS WITH CLEANOUT PLUGS.
 - ESCUTCHEONS SHALL BE CHROME PLATED CAST BRASS WITH SET SCREW.
- CLOSEOUT, TESTING AND INSPECTIONS**
- COORDINATE INSPECTIONS WITH THE SPECIFICATIONS.
 - ALL DOMESTIC WATER PIPING SHALL BE STERILIZED IN ACCORDANCE WITH THE PROCEDURE OUTLINED IN THE FBC, PLUMBING CODE.
 - ALL WATER SUPPLY PIPING SHALL BE LEAK TESTED IN ACCORDANCE WITH THE FBC, PLUMBING CODE BUT NOT LESS THAN 100 PSI.
 - ALL WASTE AND VENT PIPING SHALL BE LEAK TESTED IN ACCORDANCE WITH THE FBC, PLUMBING CODE BUT NOT LESS THAN 10' OF HEAD.
 - CONTRACTOR SHALL CAMERA SEWER LINES AND PROVIDE SMOKE TEST OF THE ENTIRE WASTE AND VENT SYSTEM.
 - NO PIPING SHALL BE COVERED OR CLOSED UP BEFORE INSPECTION AND APPROVAL. PROVIDE TEST TEES AT CONNECTION TO EXISTING AT EACH FLOOR & AS NEEDED FOR COMPLETE TESTING.

LCSB PLUMBING SPECIFICATIONS

- URINALS TO BE PIPED ON INDIVIDUAL STACKS WITH CLEAN OUTS INSTALLED ABOVE WASTE ARM.
- ALL WASTE AND VENT PIPING SHALL BE SCHEDULE 40 PVC
- WASTE PIPING: DOUBLE COMBINATIONS, DOUBLE WYES OR SANITARY CROSSES ARE NOT TO BE USED IN SANITARY PIPING.
- ACID WASTE PIPING; CPVC PIPE AND FITTINGS "SOLVENT WELD".
- UNDERGROUND WATER SERVICES- SERVICES UNDER ANY SLABS SHALL BE TYPE K HARD COPPER. TRANSITIONS TO PVC PIPING MUST OCCUR OUTSIDE ANY CONCRETE WORK. NO PVC WATER PIPING UNDER CONCRETE SLABS. COPPER FITTINGS UNDER SLAB SHALL BE SILVER SOLDERED WITH 15 PERCENT SILVER SOLDER. PIPING AND FITTINGS SHALL BE WRAPPED WITH WRAP TAPE IN ITS ENTIRETY. TRANSITION FROM COPPER TO PVC TO BE MADE WITH COPPER FIP ADAPTER AND SCH 80 PVC MALE ADAPTER. ALL SOLVENT WELD FITTINGS SHALL BE SCH 80 PVC.
- INTERIOR WATER PIPING SHALL BE TYPE L COPPER. ALL FITTINGS SHALL BE PRO PRESS AND NO SOLDERED FITTINGS ARE NOT PERMITTED.
- UNDERGROUND WATER MAINS AND SERVICES 4" AND LARGER SHALL BE INSTALLED USING C-900 PIPE WITH MECHANICAL FITTINGS. 3" AND SMALLER SHALL BE CLASS 200 RING TITE PIPE.
- SERVICE VALVE FOR BUILDINGS SHALL BE INSTALLED WITHIN 4 FEET OF WATER MAIN.
- ON NEW INSTALLATION OF WATER MAINS AN ISOLATION VALVE SHALL BE INSTALLED MID-POINT OF MAIN PIPING.
- NO WALL HYDRANTS TO BE USED.
- BALL VALVES TO BE USED ON INTERIOR PIPING.
- WATER MAINS AND WATER SERVICES USE MECHANICAL GATE VALVES, MUELLER OR EQUAL.
- TRAP PRIMERS FOR MULTI DRAINS AND DRAINS SERVING MECHANICAL EQUIPMENT ON MEZZANINES TO BE OF ELECTRONIC SOLENOID DEVICES. SINGLE TRAP PRIMERS TO BE UNDER LAVATORIES; PPP PRO L-JL-P-500, ADJUSTABLE.
- BACKFLOW DEVICES 2" AND SMALLER AT WATER METER AND MECHANICAL EQUIPMENT SHALL BE WILKINS, CONBRACO, OR FEBCO. NO WATTS DEVICES TO BE USED. BACKFLOW DEVICES SHALL BE INSTALLED AT ELEVATION THAT IS SERVICEABLE FROM FLOOR AND MAINTAIN 12" CLEARANCE FROM WALL.
- MULTI STATION LAVATORY UNITS TO BE INSTALLED IN GANG RESTROOMS IF BUDGET ALLOWS.
- CLASSROOM SINKS SHALL BE ONE-PIECE TOP WITH SINK MOLDED IN TOP.
- CONTRACTOR TO CAMERA SEWER LINES AND PROVIDE SMOKE TEST OF ENTIRE DRAINAGE WASTE AND VENT PIPING. SCHOOL BOARD EMPLOYEES TO WITNESS CAMERA AND SMOKE TEST.
- WATER HEATER SERVING CUSTODIAL SINKS SHALL NOT BE LARGER THAN 20 GALLONS.
- CARRIERS FOR LAVATORIES AND URINALS ARE NOT TO BE USED.
- WATER SERVICES TO ENTER BUILDINGS AT CLOSEST PROXIMITY TO WATER MAIN.
- BUILDING SEWERS TO BE PIPED DIRECTLY TO MANHOLE WHEN FEASIBLE.
- FOR HOT WATER SERVING KITCHENS, DRESSINGS AND LOCKER ROOMS, LCSB PREFERS TO UTILIZE TANKLESS GAS-FIRED WATER HEATERS.
- NO OFFSET FLANGES TO BE USED ON TOILETS.
- NO SPANNER FLANGES TO BE USED ON TOILETS.
- NO FERNCO COUPLINGS TO BE USED ON SINK WASTE.
- NO SLIP JOINT 45'S ARE PERMITTED UNDER SINK.
- NO INVERTED TRAPS ARE ALLOWED.
- GROUT THE BASE OF ALL TOILETS.
- NO TAMPER PROOF SCREWS ON WATER COOLERS.
- NO LOOSE KEY STOPS TO BE USED ON FIXTURES, UNLESS NOTED OTHERWISE.
- SINK WASTE UNDER CLASSROOM SINKS TO BE PVC TUBULAR.
- NO 1.28 GPF TOILETS TO BE USED.
- ALL PIPING SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO WALLS, AND SHALL PASS THROUGH WALLS AT 90 DEGREES, UNLESS SHOWN OR APPROVED. PIPING INSTALLED DIAGONALLY IS NOT ALLOWED.
- ANY CAST IRON SOIL PIPE THAT IS USED SHALL BE SERVICE WEIGHT BELL AND SPIGOT; ASTM A 74. WITH NEOPRENE SINGLE SERVICE COMPRESSION GASKETS. NO-HUB PIPE & FITTINGS MAY BE USED FOR VENT SERVICES ONLY.

PLUMBING LEGEND

| | |
|--|---|
| | EXISTING SANITARY PIPING |
| | EXISTING GREASE PIPING |
| | EXISTING VENT PIPING |
| | EXISTING CW PIPING |
| | EXISTING HW PIPING |
| | EXISTING PIPING/EQUIPMENT TO BE REMOVED OR DEMOLISHED |
| | SANITARY PIPING |
| | GREASE PIPING |
| | VENT PIPING |
| | FRESH AIR VENT PIPING |
| | NATURAL GAS PIPING |
| | CW PIPING |
| | HW PIPING |
| | HWR PIPING |
| | CONDENSATE PIPING |
| | TRAP PRIMER LINE (1/2\" U.N.O.) |
| | PRIMARY RAIN LEADER |
| | STORM DRAIN PIPING |
| | CAP |
| | ELBOW TURNED UP |
| | ELBOW TURNED DOWN |
| | TEE, OUTLET UP |
| | TEE, OUTLET DOWN |
| | BALL VALVE |
| | BUTTERFLY VALVE |
| | PRESSURE REGULATOR |
| | FIRE ALARM SHUT-OFF VALVE |
| | SWING CHECK VALVE |
| | WATER HAMMER ARRESTER |
| | MANUAL GAS SHUTOFF VALVE, PRESSURE REGULATOR, AND METER |
| | CONNECTION, NEW TO EXISTING |
| | LIMIT OF DEMOLITION |

ABBREVIATIONS

| | |
|--------|-----------------------------|
| AC | ABOVE CEILING |
| AF | ABOVE FLOOR |
| AFF | ABOVE FINISHED FLOOR |
| AFG | ABOVE FINISHED GRADE |
| AS | ABOVE SLAB |
| BFF | BELOW FINISHED FLOOR |
| BFP | BACKFLOW PREVENTER |
| BG | BELOW GRADE |
| BS | BELOW SLAB |
| CA | COMPRESSED AIR |
| CO | CLEANOUT |
| CS | CUP SINK |
| CW | COLD WATER |
| CWS | COLD WATER SERVICE |
| DN | DOWN |
| EXIST | EXISTING |
| FAV | FRESH AIR VENT |
| FCO | FLOOR CLEANOUT |
| FD | FLOOR DRAIN |
| HD | HUB DRAIN |
| HW | HOT WATER |
| HWR | HOT WATER RETURN |
| G | NATURAL GAS |
| INV EL | INVERT ELEVATION |
| N.C. | NORMALLY CLOSED |
| N.O. | NORMALLY OPEN |
| NA | NOT APPLICABLE |
| PDI | PLUMBING DRAINAGE INSTITUTE |
| PH | PHASE |
| S | SOIL |
| SAN | SANITARY |
| SK | SINK |
| TP | TRAP PRIMER |
| TYP | TYPICAL |
| UDS | UTILITY DISTRIBUTION SYSTEM |
| U.N.O. | UNLESS NOTED OTHERWISE |
| V | VENT |
| VTR | VENT THROUGH ROOF |
| W | WASTE |
| WCO | WALL CLEANOUT |
| XT | EXPANSION TANK |

LCSB-21-23-HKL-222

| DRAIN SCHEDULE (BASIS OF DESIGN) | | | | | | |
|----------------------------------|--|------------|--|---------------------|-------|------|
| TYPE | DESCRIPTION | MODEL | TRIM & ACCESSORIES | FIXTURE CONNECTIONS | | |
| | | | | CW | WASTE | VENT |
| FD-1 | CAST IRON GENERAL SERVICE FLOOR DRAIN WITH SQUARE TOP AND AUXILIARY TRAP PRIMER FITTING. | ZURN Z415S | DUCO COATED CAST IRON BODY W/ FLASHING COLLAR AND ADJUSTABLE 8" ROUND NICKEL BRONZE STRAINER HEAD. J.R. SMITH 2695 AUXILIARY CAST IRON TRAP PRIMER FITTING 1/2" NPT TAPPING. | 1/2" | 3" | 2" |
| FD-2 | CAST IRON GENERAL SERVICE FLOOR DRAIN WITH ROUND TOP. | ZURN Z415B | DUCO COATED CAST IRON BODY W/ FLASHING COLLAR AND ADJUSTABLE 8" ROUND NICKEL BRONZE STRAINER. SEDIMENT BUCKET. PROVIDE J.R. SMITH 2692 TRAP SEAL IN LIEU OF TRAP PRIMER CONNECTION. | | 3" | 2" |
| FD-3 | CAST IRON GENERAL SERVICE FLOOR DRAIN WITH SQUARE TOP. | ZURN Z415S | DUCO COATED CAST IRON BODY W/ FLASHING COLLAR AND ADJUSTABLE 7"x7" SQUARE POLISHED BRONZE STRAINER HEAD. PROVIDE J.R. SMITH 2692 TRAP SEAL IN LIEU OF TRAP PRIMER CONNECTION. | | 3" | 2" |
| HD-1 | CAST IRON FIXED AIR GAP FITTING. | ZURN Z1024 | DUCO CAST IRON WITH SET SCREW AND DEEP SEAL P-TRAP. | | 2" | |
| HD-2 | BELLMOUTH HUB DRAIN | | PVC REDUCER, 3"x2" W/ P-TRAP. PROVIDE J.R. SMITH 2692 TRAP SEAL IN LIEU OF TRAP PRIMER CONNECTION. | | 2" | 2" |
| CD-1 | CAST IRON CONDENSATE RECEPTOR | ZURN Z415I | DURA COATED CAST IRON BODY W/ FLASHING COLLAR AND ADJUSTABLE 7" ROUND NICKEL BRONZE STRAINER. WITH RAISED FLANGE. PROVIDE J.R. SMITH 2692 TRAP SEAL IN LIEU OF TRAP PRIMER CONNECTION. | 0" | 3" | 2" |

| PLUMBING FIXTURE SCHEDULE (BASIS OF DESIGN) | | | | | | | |
|---|--|-------------------------------|--|--|------------|-------|--------|
| TYPE | DESCRIPTION | | TRIM & ACCESSORIES | FIXTURE CONNECTIONS | | | |
| | | | | CW | HW | WASTE | VENT |
| WC-1 | ADA WATER CLOSET, FLOOR MOUNT, VITREOUS CHINA, 16 1/2" RIM HGT. ELONGATED BODY. P-TRAP. FLUSHOMETER VALVE SIPHON, 1-1/2" TOP SPUD, 1.6 GALLON FLUSH. | KOHLER HIGHLIFE ULTRA K-96057 | SLOAN REGAL 111 XL EXPOSED FLUSH VALVE, DIAPHRAGM-TYPE, 1.6 GALLON FLUSH, CHROME PLATED. BEAMS 1955SCT ELONGATED SOLID PLASTIC SELF-SUSTAINING OPEN FRONT SEAT WITH CHECK HINGE AND BOLT CAPS. ESCUTCHEON PLATE W/ SET SCREW. | 1" | | 3" | 2" |
| L-1 | 2 1/2"x18 1/2" WALL-HUNG VITREOUS CHINA LAVATORY. SINGLE HOLE INSTALLATION, ADA COMPLIANT. | KOHLER K-2007-0 | MOEN 8884 SINGLE-HANDLED ADA METERING LAVATORY FAUCET, CHROME PLATED SOLID BRASS CONSTRUCTION, SINGLE HOLE MOUNT, VANDAL RESISTANT, 0.5GPM MAXIMUM MULTI-STREAM LAMINAR FLOW LIMITS WATER DISCHARGE TO A MAXIMUM OF 0.25GPM @ 20 SECONDS OR 0.20GPM @ 24 SECONDS. GRID DRAIN, WITHOUT POP-UP ASSEMBLY. MCGUIRE 1-1/4" TRAP W/ PRODRAIN OFFSET ASSEMBLY, PRE-WRAPPED CHROME PLATED HEAVY CAST BRASS ADJUSTABLE P-TRAP W/ CLEANOUT, TAILPIECE, SLIP NUTS, 17A SEAMLESS TUBULAR BRASS WALL BEND, MCGUIRE 167 ANGLE SUPPLY STOPS, FLEXIBLE CHROME PLATED RISERS, CHROME ESCUTCHEON PLATES W/ SET SCREWS. PROVIDE WITH TMV-2. | 1/2" | 1/2" | 2" | 1 1/2" |
| U-1 | URINAL - WALL MOUNT, WHITE VITREOUS CHINA, 3/4" TOP SPUD, 1.0 GALLON FLUSH, 14" EXTENDED RIM. SEE ARCHITECTURAL PLANS FOR MOUNTING HEIGHTS. | KOHLER BARDON K-4991-ETSS | SLOAN REGAL 186 XL EXPOSED FLUSH VALVE, DIAPHRAGM-TYPE, 0.5 GALLON FLUSH, CHROME PLATED. | 3/4" | | 2" | 2" |
| U-2 | URINAL - WALL MOUNT, WHITE VITREOUS CHINA, 3/4" TOP SPUD, 1.0 GALLON FLUSH, 14" EXTENDED RIM. SEE ARCHITECTURAL PLANS FOR MOUNTING HEIGHTS, ADA COMPLIANT. | KOHLER BARDON K-4991-ETSS | SLOAN REGAL 186 XL EXPOSED FLUSH VALVE, DIAPHRAGM-TYPE, 0.5 GALLON FLUSH, CHROME PLATED. | 3/4" | | 2" | 2" |
| SK-1 | 1-COMPARTMENT SINK, 16 GAUGE 300 SERIES STAINLESS STEEL, CENTER DRAIN, 27"x27-3/4"x43-3/4" | ELKAY 14-1C22X22-0X | ELKAY LK945H40RT6T WALL MOUNT FAUCET, 8" HIGH ARC SPOUT REACH, 8 1/2" SPOUT HEIGHT, 6" WRISTBLADE HANDLES, 8" FAUCET HOLE SPREAD, 1.6 GPM. | 1/2" | 1/2" | 3" | 2" |
| HS-1 | HAND SINK, POLISHED SATIN FINISH, 304 STAINLESS STEEL, 20 GAUGE, 17 1/2"x15 1/2"x30" DEEP. | ADVANCE TABCO 7-PS-60 | ADVANCE TABCO K-59 4" O.C. SPLASH MOUNTED GOOSENECK FAUCET, 1.0 GPM LEVER OPERATED DRAIN, 1 1/2" P-TRAP. CONFORMS TO NSF 61-9 LEAD FREE REQUIREMENTS. PROVIDE WITH TMV-1. | 1/2" | 1/2" | 2" | 1 1/2" |
| MS-1 | 32"x32"x12" PRECAST TERRAZZO MOP SERVICE BASIN | FIAT TSBC1610 | T&S BRASS B-0665-BSTR FAUCET W/ VACUUM BREAKER FIAT 832-AA HOSE AND HOSE BRACKET FIAT 1239BB ALUMINUM BUMPERGUARD WITH VINYL INSERT FIAT 889-CC MOP HANGER FIAT 833-AA SILICONE SEALANT FIAT MSG3232 STAINLESS STEEL WALL GUARDS | 1/2" | 1/2" | 3" | 2" |
| EWC-1 | BOTTLE FILLING STATION AND BI-LEVEL ADA COOLER, FILTERED REFRIGERATED LIGHT GRAY GRANITE, CHILLING CAPACITY OF 8.0 GPH (GALLONS PER HOUR) OF 50° F DRINKING WATER, BASED ON 60° F INLET WATER AND 90° F AMBIENT, PER ASHRAE 18 TESTING. BOTTLE FILLER TO BE ON THE RIGHT SIDE. | ELKAY LMABFTL8WSLK | ANTIMICROBIAL, ENERGY SAVING, FILTERED, HANDS FREE, LAMINAR FLOW, REAL DRAIN, VISUAL FILTER MONITOR, FURNISHED WITH SAFETY BUBBLER, ELECTRONIC BOTTLE FILLER SENSOR WITH ELECTRONIC FRONT AND SIDE BUBBLER PUSHBAR ACTIVATION, PROVIDE BI-LEVEL PLATE-TYPE WATER COOLER SYSTEM. ZURN Z1225 UNIT SHALL BE LEAD-FREE DESIGN WHICH IS CERTIFIED TO NSF/ANSI 61 & 372 (LEAD FREE) AND MEETS FEDERAL AND STATE LOW-LEAD REQUIREMENTS. PROVIDE W/ ELKAY CANE APRON LKAPREZL, AND ELKAY 61300C REPLACEMENT FILTERS (BOTTLE FILLERS). | 1/2" | | 2" | 1 1/2" |
| HB-1 | WALL FAUCET, POLISHED CHROME | T&S BRASS B-0737-POL | 3/4" NPT FEMALE INLET, 3/4" GARDEN HOSE MALE OUTLET, VACUUM BREAKER. LOOSE KEY TO BE PROVIDED TO LCS. | 3/4" | | | |
| IMB-1 | RECESSED ICE MAKER HOOK-UP BOX | GUY GRAY BIM 875 | 10" x 8 1/2" x 3 1/2" HOOK-UP BOX, 20 GA. BOX, 18 GA. FACEPLATE, 1/2" FIP INLET x 1/4" OD OUTLET COMPRESSION ANGLE VALVE. | 0'-0" 1/2" | | | |
| TMV-1 | THERMOSTATIC WATER CONTROLLER, 110° SET TEMP. | LAWLER 66-50 | INTEGRAL TEMPERED WATER SHUT-OFF VALVE, BRONZE BODY, STAINLESS STEEL PISTON, LEAD FREE CERTIFIED, ASSE 1017 APPROVED, ASSE LEAD FREE CERTIFIED. | 3/4" | 3/4" | | |
| TMV-2 | THERMOSTATIC MIXING VALVE, 95° SET TEMP. | ZURN ZW3870XLT | THERMOSTATIC MIXING VALVE, INTEGRAL CHECK VALVES, INTEGRAL SCREENS, AND ADJUSTMENT NUT WITH LOCKING FEATURE, LEAD FREE BRASS 4-PORT, "H" PATTERN BODY. SATIN CHROME FINISH, CONFORMS TO ASSE 1070. | 0'-0" 3/8" | 0'-0" 3/8" | | |
| TP-1 | PRESSURE DROP ACTIVATED TRAP PRIMER | PPP PR-500 | PROVIDE DISTRIBUTION UNIT DU-U AS REQUIRED | 1/2" | | | |
| WCO | CLEANOUT TEE, DURA-COATED CAST IRON BODY, GAS AND WATERTIGHT ABS TAPERED THREAD PLUG, AND ROUND, SMOOTH STAINLESS STEEL WALL ACCESS COVER WITH SECURING SCREW. | ZURN Z1446 | POLISHED BRONZE COVER, BRONZE PLUG. | SEE PLANS FOR SIZES | | | |
| FCO | ADJUSTABLE FLOOR CLEANOUT, DURA-COATED CAST IRON BODY WITH GAS AND WATERTIGHT ABS TAPERED THREAD PLUG AND ROUND SCORAIATED CAST IRON EXTRA-HEAVY-DUTY SECURED POLISHED BRONZE TOP ADJUSTABLE TO FINISHED FLOOR. | ZURN Z1400 | FLASHING CLAMP AND FLASHING FLANGE, BRONZE PLUG. | SEE PLANS FOR SIZES | | | |
| ECO | ADJUSTABLE FLOOR CLEANOUT, DURA-COATED CAST IRON BODY WITH GAS AND WATERTIGHT ABS TAPERED THREAD PLUG AND ROUND SCORAIATED CAST IRON EXTRA-HEAVY-DUTY SECURED POLISHED BRONZE TOP ADJUSTABLE TO FINISHED FLOOR. | ZURN Z1400 | FLASHING CLAMP AND FLASHING FLANGE, BRONZE PLUG. | SEE PLANS FOR SIZES | | | |
| WHA | WATER HAMMER ARRESTOR | ZURN 1260XL | SIZING PER MANUFACTURERS INSTRUCTIONS. | REFERENCE WATER HAMMER ARRESTOR SCHEDULE | | | |

| ELECTRIC WATER HEATER SCHEDULE (BASIS OF DESIGN) | | | | | | | | |
|--|----------------------|----------------------------|----------------------|------------|-----------------------------|--------------------|--------------|--|
| TYPE | MODEL NO. | STORAGE CAPACITY (GALLONS) | (NO. OF ELEMENTS)/KW | INPUT (KW) | RECOVERY @ 75° F RISE (GPH) | STORAGE TEMP. (°F) | VOLTS/ PHASE | NOTES |
| EWH-1 | AO SMITH DEL-20S-3.0 | 20 | (1)3.0 | 3.0 | 17.0 | 140 | 208/1 | GLASS LINED TANK, ZINC PLATED COPPER SHEATHS, WALL-MTD, PROVIDE WITH EQUIPMENT PLATFORM. |

| RECIRCULATOR PUMP SCHEDULE (BASIS OF DESIGN) | | | | | | | |
|--|-----------|---------------|----------------|-----------|-----------------------|-------------------------------------|------------|
| TYPE | MODEL NO. | SERVICE | CAPACITY (GPM) | TDH (FT.) | MOTOR HORSEPOWER (HP) | ELECTRICAL CHARACTERISTICS (VOLT/Ø) | PUMP SEAL |
| RP-1 | TACO 006 | HW CIRCULATOR | 1 | 8 | 1/40 | 115 / 1 | MECHANICAL |

| EXPANSION TANK SCHEDULE (BASIS OF DESIGN) | | | | |
|---|----------------------------|-----------------------|-------------|---------|
| TYPE | MANUFACTURER/MO DEL NUMBER | TANK VOLUME (GALLONS) | ORIENTATION | SERVICE |
| XT-1 | WATTS FLT-6 | 2 | VERTICAL | EWH-1 |



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FITZGERALD COLLABORATIVE

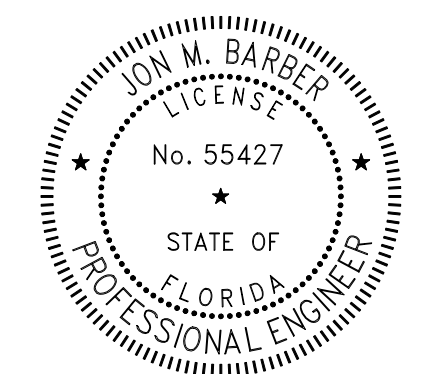
ATLANTA
1201 W. PEACHTREE ST, SUITE 630
ATLANTA, GA 30309

TALLAHASSEE
850 S. GADSDEN STREET, SUITE 140
TALLAHASSEE, FL 32301

FITZGERALD COLLABORATIVE GROUP, LLC
AA26001957



JON BARBER, PE 55407 BRIAN WALLACE, PE 15500
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MFE-NO.COM 850.681.6424



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| NO. | DESCRIPTION | DATE |
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PERMIT DOCUMENTS

CLIENT
LEON COUNTY SCHOOLS

PROJECT TITLE
LCS NIMS MIDDLE SCHOOL

723 W Orange Avenue,
Tallahassee, FL 32310

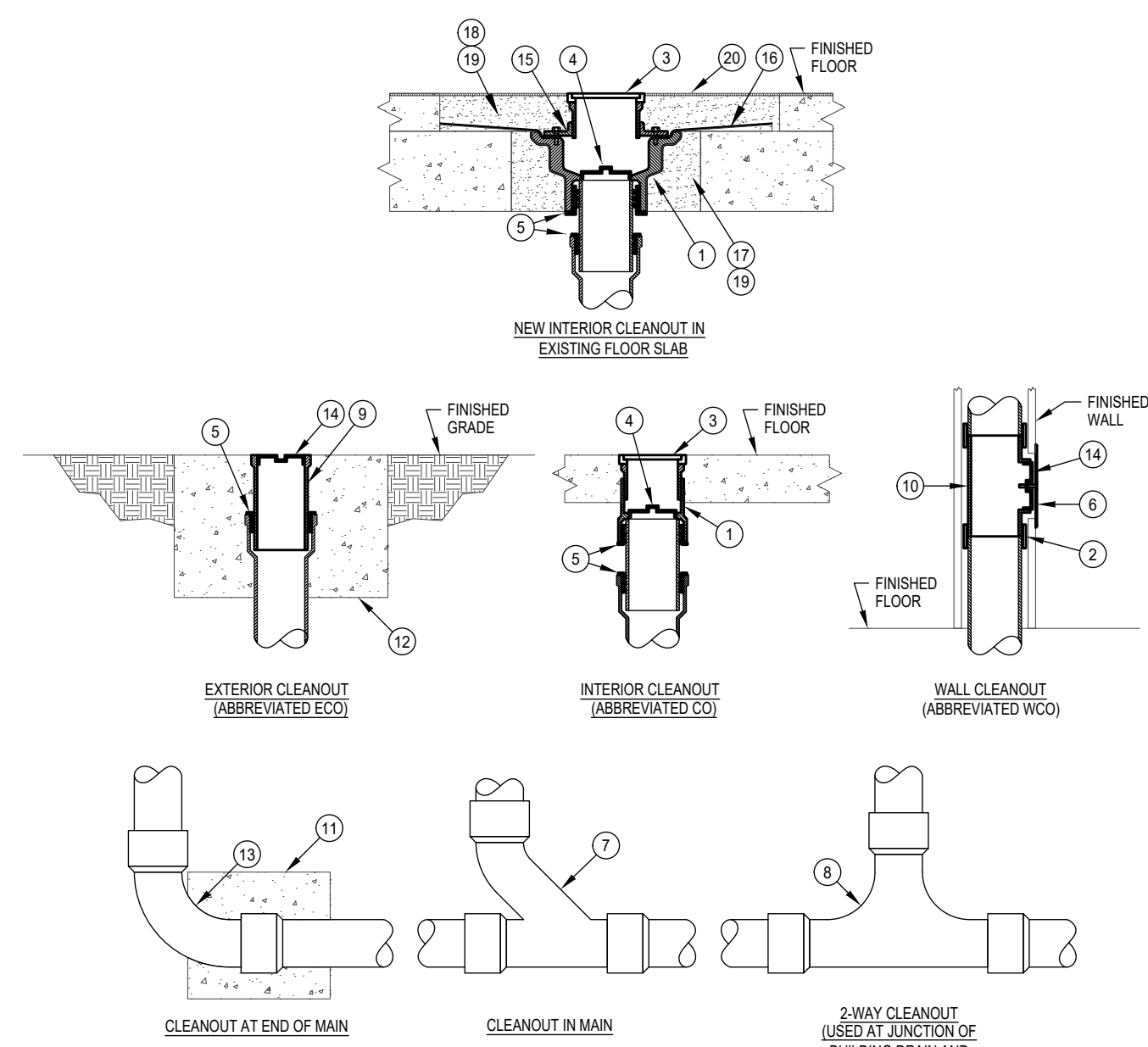
PROJECT NUMBER
240202

ISSUE DATE
11/11/2024

DRAWING TITLE
PLUMBING SCHEDULES

SHEET NUMBER
P101

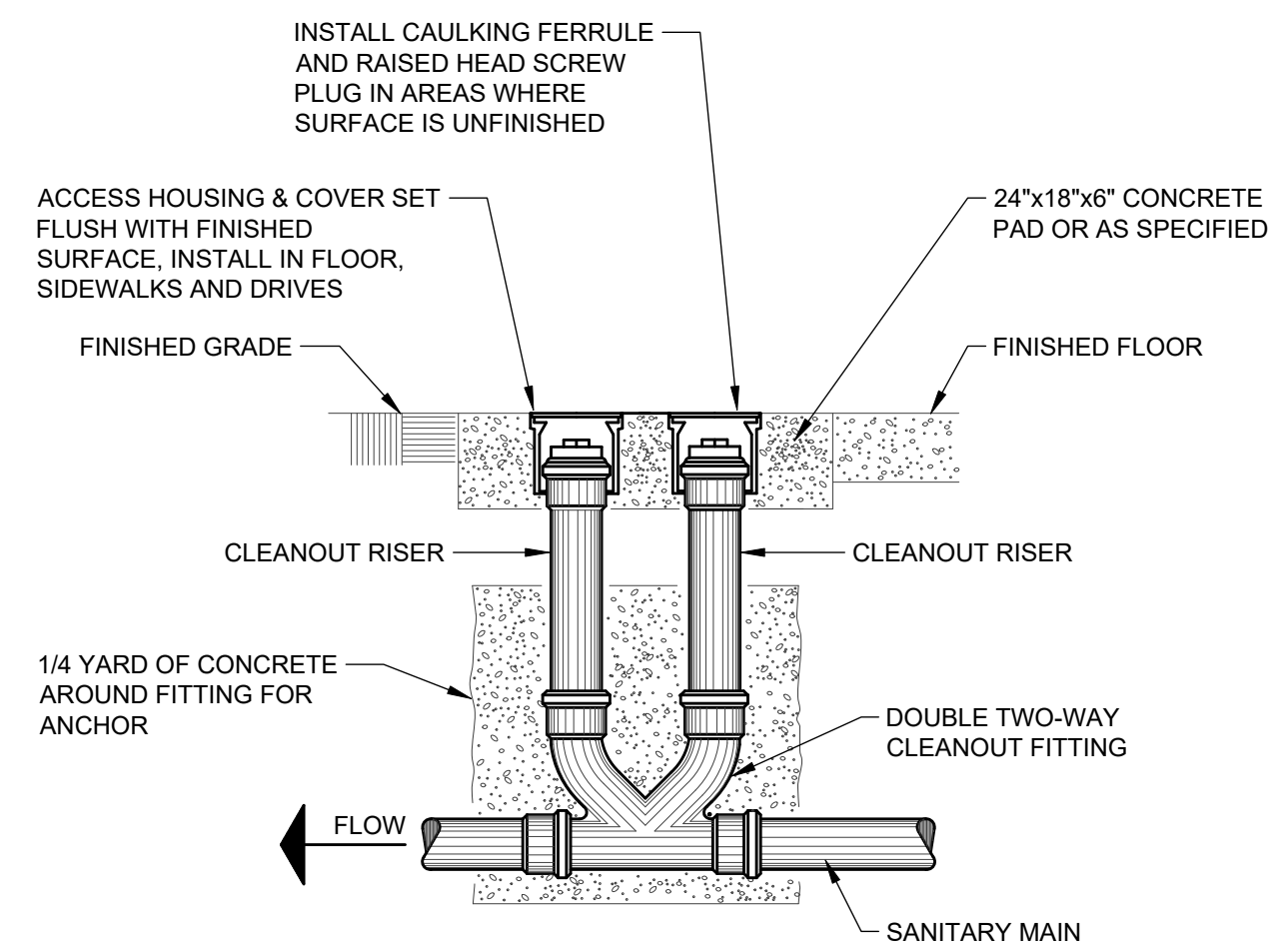
LC#B-21-23-HKL-222



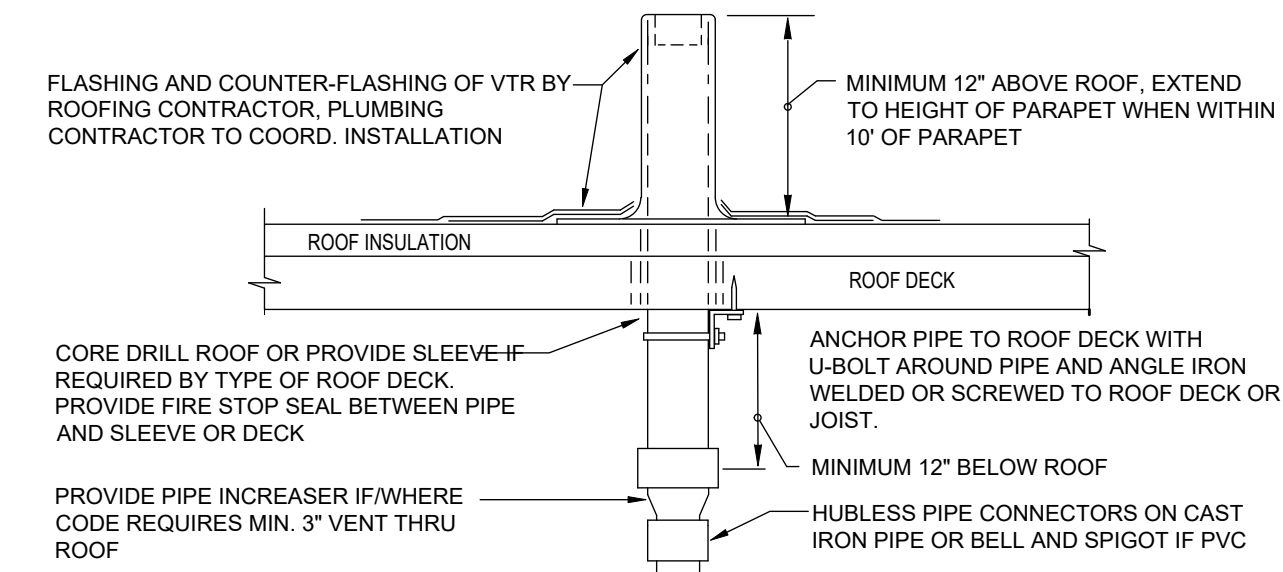
KEY NOTES (THIS DETAIL ONLY)

- 1 CAST IRON 2-PIECE CLEANOUT BODY WITH ADJUSTABLE HEAD.
- 2 NO-HUB COUPLING (FOR ABOVE GROUND APPLICATION ONLY).
- 3 POLISHED NICKEL BRONZE SCORATED TOP (PROVIDE CARPET MARKER FOR CARPETED FLOORS).
- 4 BRONZE TAPERED THREAD, RAISED HEAD CLEANOUT PLUG.
- 5 PUSH-ON NEOPRENE RUBBER COMPRESSION GASKET.
- 6 STAINLESS STEEL ROUND WALL ACCESS COVER.
- 7 COMBINATION WYE AND EIGHTH BEND FITTING.
- 8 TWO-WAY CLEANOUT FITTING.
- 9 CAST IRON CLEANOUT FERRULE.
- 10 CAST IRON CLEANOUT TEE.
- 11 12" x 12" x 12" CONCRETE THRUST BLOCK.
- 12 24" x 24" x 12" CONCRETE PAD FLUSH WITH GRADE.
- 13 LONG SWEEP ELBOW.
- 14 BRONZE TAPERED THREAD, RECESSED HEAD CLEANOUT PLUG.
- 15 CAST IRON INVERTIBLE CLAMPING COLLAR.
- 16 NEW LEAD PAN FLASHING CLAMPED TIGHTLY TO DRAIN BODY. SEE ARCHITECTURAL PLANS.
- 17 BREAK OUT EXISTING STRUCTURAL CONCRETE FLOOR SLAB.
- 18 CUT TOPPING MINIMUM 12" BEYOND BROKEN-OUT STRUCTURAL FLOOR SLAB TO NEAREST FLOOR TILE JOINT TO ALLOW FOR INSTALLATION OF NEW LEAD PAN FLASHING.
- 19 GROUT SOLID AROUND NEW FLOOR DRAIN.
- 20 NEW FLOOR FINISH TO MATCH EXISTING.

**CLEANOUT DETAIL
NTS**



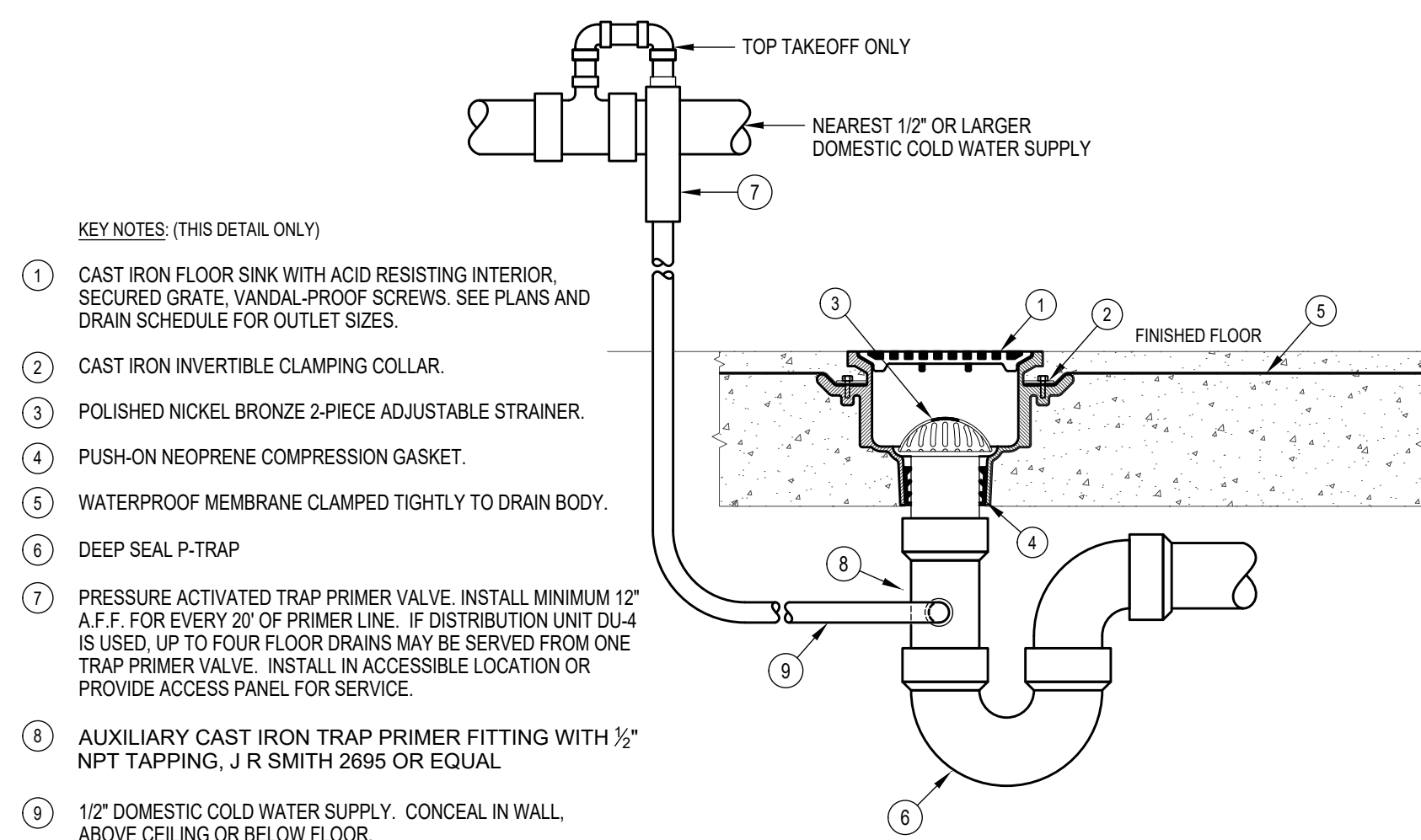
**DOUBLE TWO-WAY CLEANOUT
NTS**



VTR NOTES:

REFER TO PLANS FOR VTR PIPE SIZES AND LOCATIONS. LOCATE VTR MINIMUM THREE FEET FROM PROPERTY LINE, OR TEN FEET HORIZONTAL OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, OR ONE FOOT FROM ANY VERTICAL SURFACE. LOCATE VTR MINIMUM 10' FROM PARAPET, EXPANSION JOINT, EQUIPMENT CURB, ETC. OFFSET IN CEILING SPACE WHERE REQUIRED TO MEET THESE CONDITIONS.

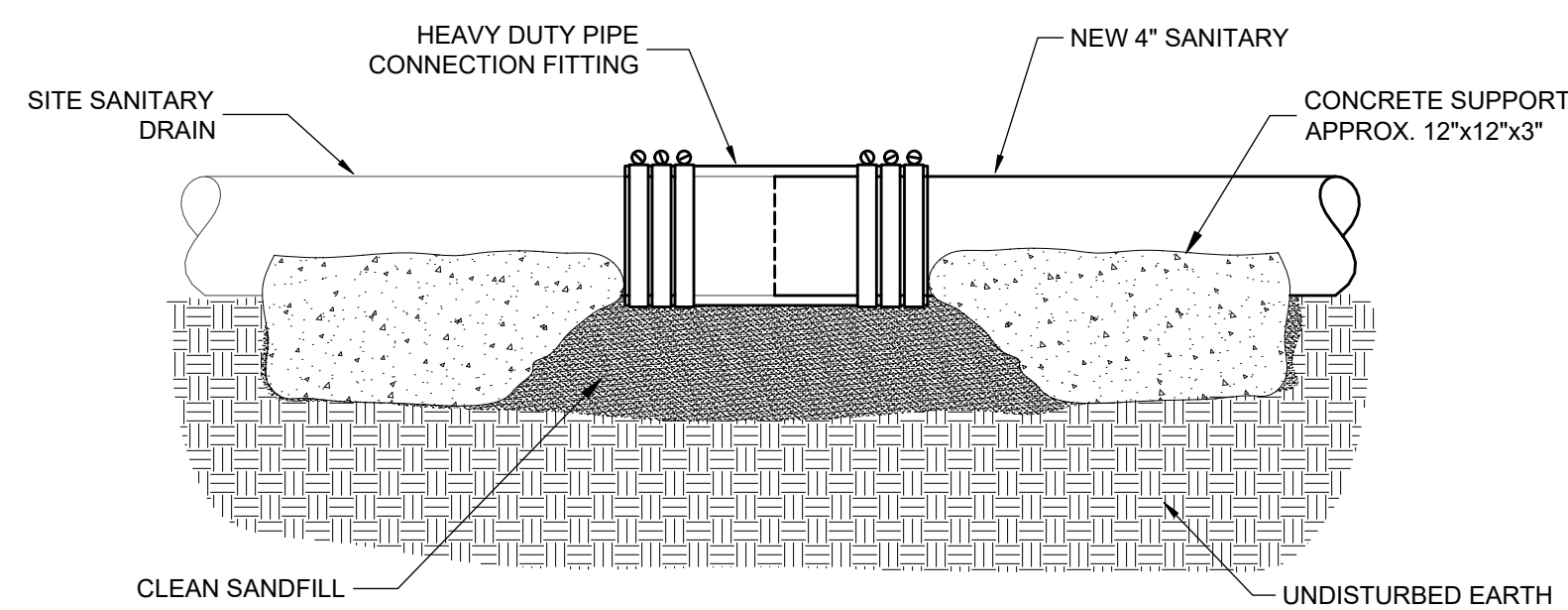
**VENT THROUGH ROOF (VTR) DETAIL
NTS**



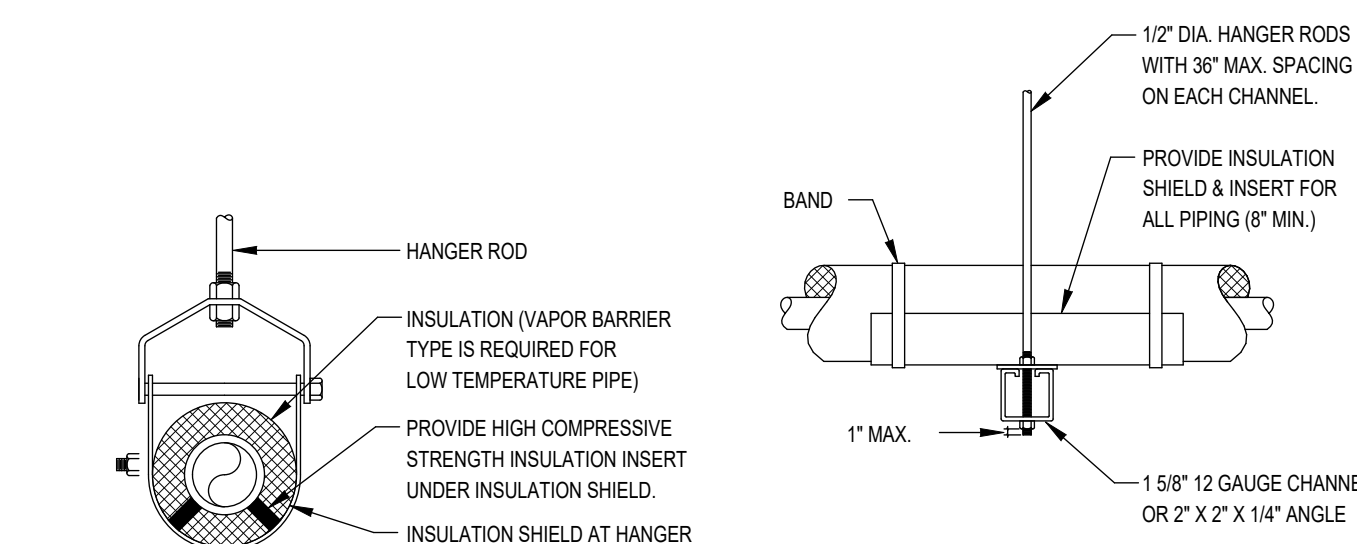
KEY NOTES (THIS DETAIL ONLY)

- 1 CAST IRON FLOOR SINK WITH ACID RESISTING INTERIOR, SECURED GRATE, VANDAL-PROOF SCREWS. SEE PLANS AND DRAIN SCHEDULE FOR OUTLET SIZES.
- 2 CAST IRON INVERTIBLE CLAMPING COLLAR.
- 3 POLISHED NICKEL BRONZE 2-PIECE ADJUSTABLE STRAINER.
- 4 PUSH-ON NEOPRENE COMPRESSION GASKET.
- 5 WATERPROOF MEMBRANE CLAMPED TIGHTLY TO DRAIN BODY.
- 6 DEEP SEAL P-TRAP.
- 7 PRESSURE ACTIVATED TRAP PRIMER VALVE. INSTALL MINIMUM 12" A.F.F. FOR EVERY 20' OF PRIMER LINE. IF DISTRIBUTION UNIT D1.4 IS USED, UP TO FOUR FLOOR DRAINS MAY BE SERVED FROM ONE TRAP PRIMER VALVE. INSTALL IN ACCESSIBLE LOCATION OR PROVIDE ACCESS PANEL FOR SERVICE.
- 8 AUXILIARY CAST IRON TRAP PRIMER FITTING WITH 1/2" NPT TAPPING, J. R. SMITH 2695 OR EQUAL.
- 9 12" DOMESTIC COLD WATER SUPPLY. CONCEAL IN WALL, ABOVE CEILING OR BELOW FLOOR.

**TYPICAL FLOOR DRAIN OR FLOOR SINK TRAP PRIMER TAPPING INSTALLATION DETAIL
NTS**



**SANITARY MAIN CONNECTION DETAIL NEW TO EXISTING
NTS**

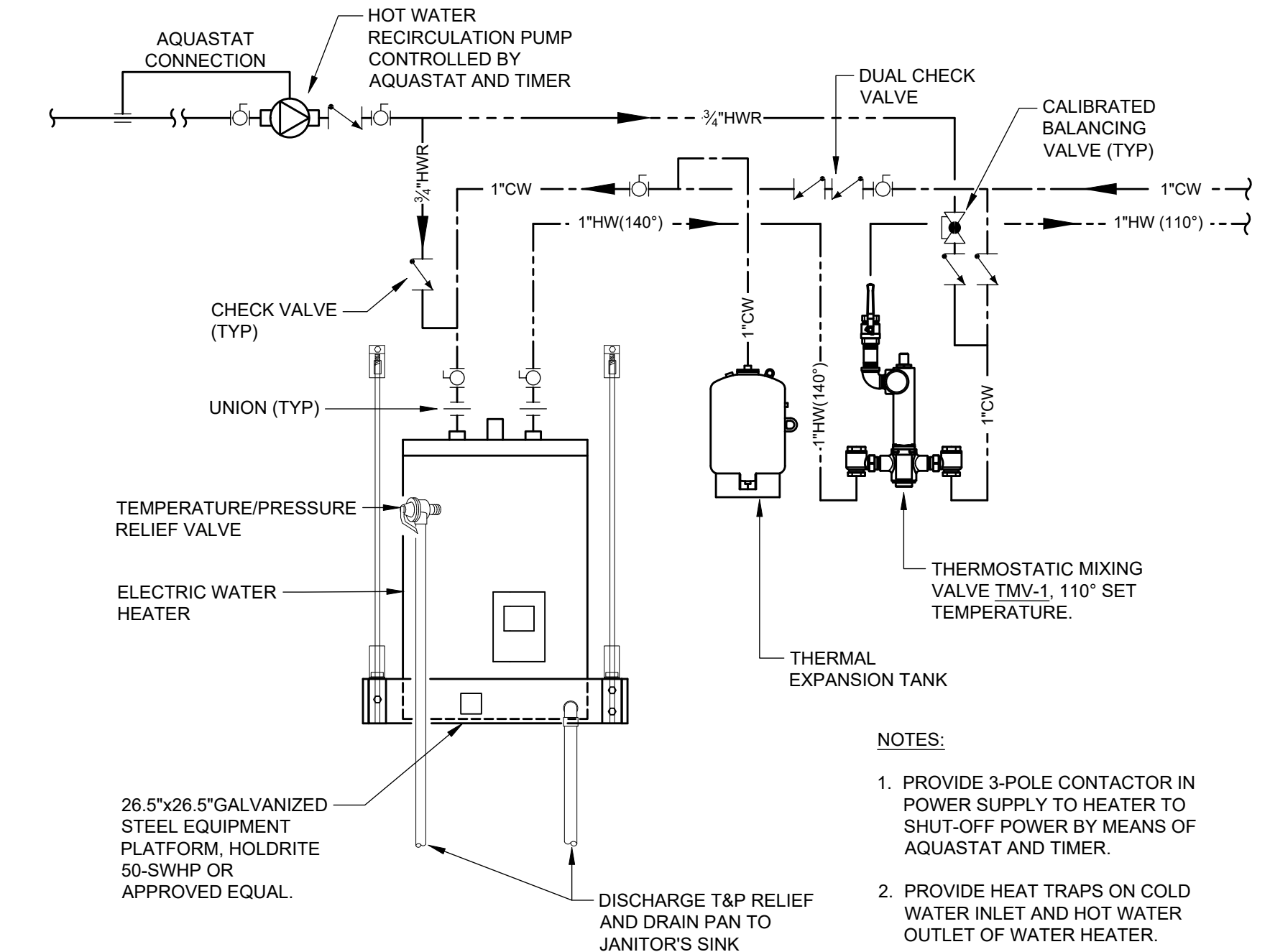


**INDIRECT CONNECTION AT FLOOR SINK/FLOOR DRAIN
NTS**



**TYPICAL PIPE HANGERS
NTS**

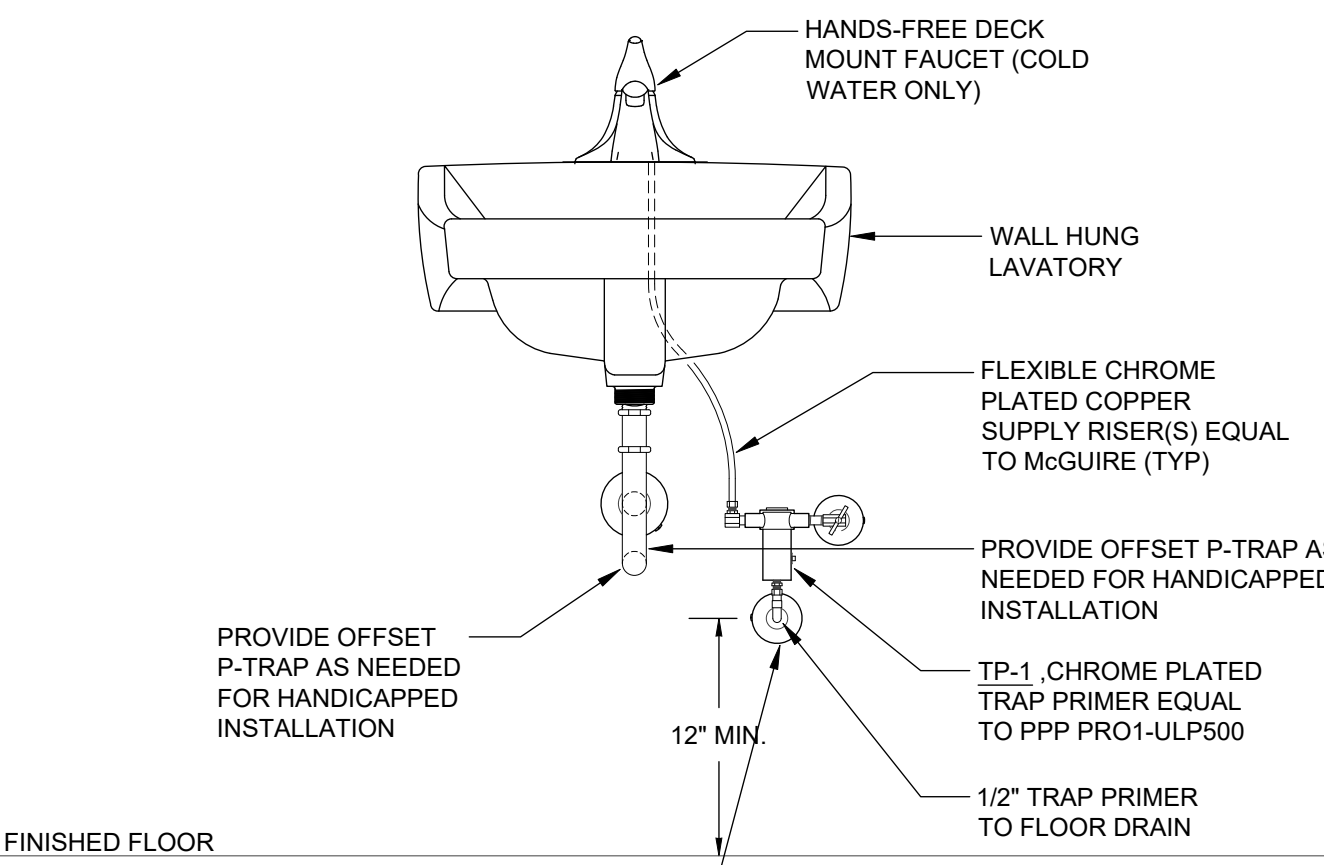
- NOTES:**
- SEE SPECIFICATIONS FOR SPACING OF HANGERS.
 - PROVIDE SPRING ISOLATORS FOR FIRST 3 HANGERS UP TO AND BEYOND EQUIPMENT CONNECTION AND/OR THROUGH OUT MECHANICAL ROOMS OR MEZZANINE AREAS.



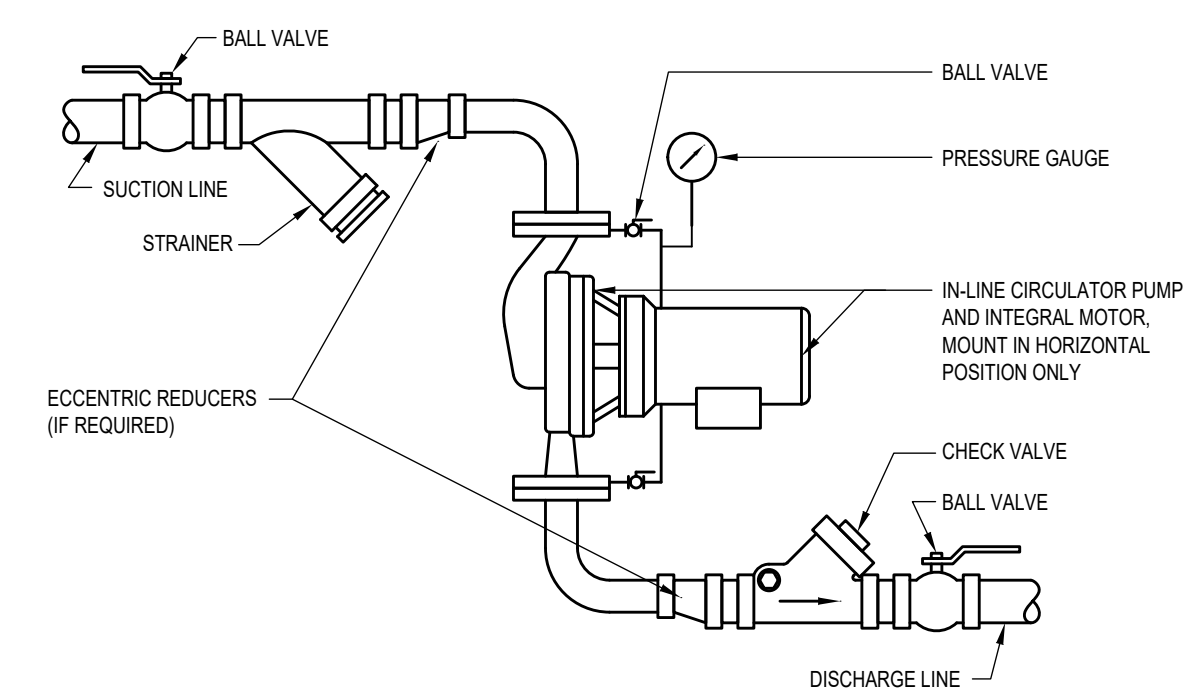
**SHELF-MOUNTED ELECTRIC WATER HEATER DETAIL
NTS**

NOTES:

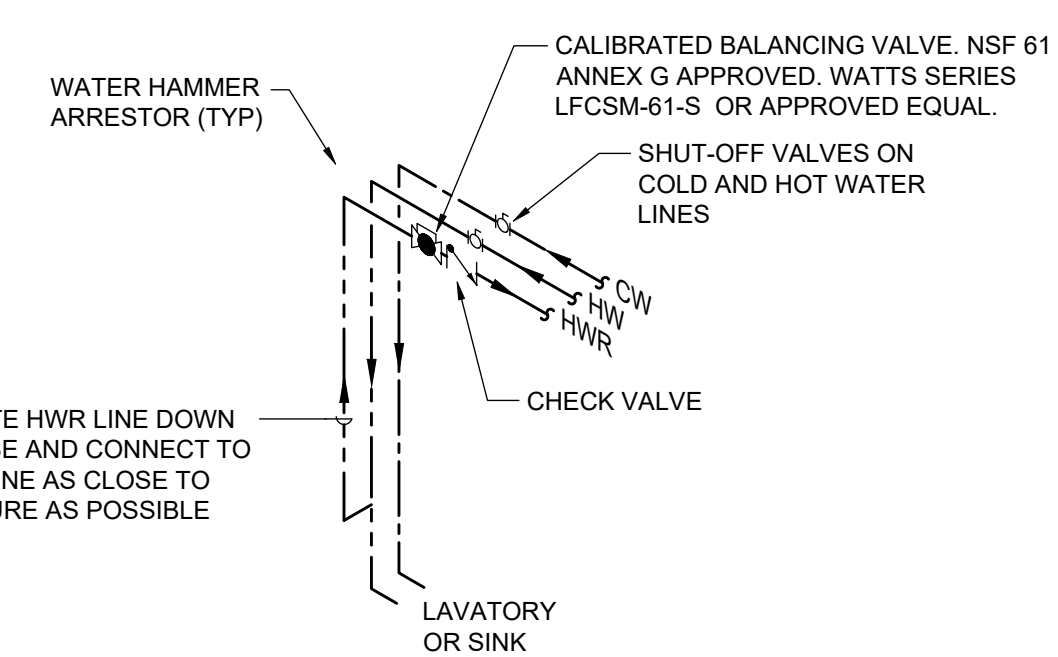
- PROVIDE 3-POLE CONTACTOR IN POWER SUPPLY TO HEATER TO SHUT-OFF POWER BY MEANS OF AQUASTAT AND TIMER.
- PROVIDE HEAT TRAPS ON COLD WATER INLET AND HOT WATER OUTLET OF WATER HEATER.
- ENTIRE SUPPORT STRUCTURE FOR WATER HEATER SHALL HAVE THE CAPACITY OF SUPPORTING A MINIMUM OF 500 LBS. DEAD WEIGHT.



**LAVATORY INSTALLATION DETAIL
NTS**



**IN-LINE RECIRCULATOR PUMP
NTS**



**HWR CONNECTION AT LAVATORY/SINK
NTS**



**FITZGERALD
COLLABORATIVE**

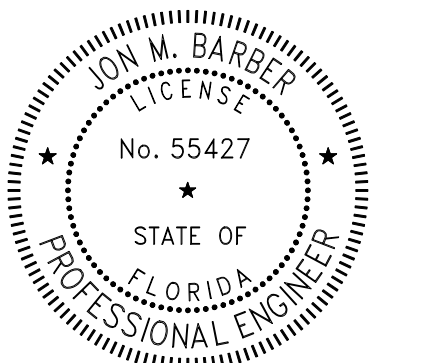
ATLANTA
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**PERMIT
DOCUMENTS**

CLIENT
**LEON
COUNTY
SCHOOLS**

PROJECT TITLE
**LCS
NIMS
MIDDLE
SCHOOL**

723 W Orange Avenue,
Tallahassee, FL 32310

PROJECT NUMBER

240202

ISSUE DATE

11/11/2024

DRAWING TITLE

**PLUMBING
DETAILS**

SHEET NUMBER

P102

LC#24-23-HKL-222



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FITZGERALD COLLABORATIVE

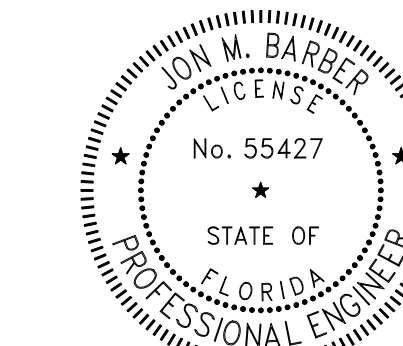
ATLANTA 1201 W. PEACHTREE ST, SUITE 630 ATLANTA, GA 30309

TALLAHASSEE 850 S. GADSDEN STREET, SUITE 140 TALLAHASSEE, FL 32301

FITZGERALD COLLABORATIVE GROUP, LLC. AA26001957



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PERMIT DOCUMENTS

CLIENT

LEON COUNTY SCHOOLS

PROJECT TITLE

LCS NIMS MIDDLE SCHOOL

723 W Orange Avenue, Tallahassee, FL 32310

PROJECT NUMBER

240202

ISSUE DATE

11/11/2024

DRAWING TITLE

PLUMBING DETAILS

SHEET NUMBER

P103

System No. C-AJ-5001 (Formerly System No. 91)
 F Rating - 1 1/2, 2 and 3 Hr. (See Item 4)
 T Rating - 0, 1/2, 3/4 and 1 Hr. (See Item 2 and 4)
 L Rating At Ambient - 2 CFM/sq.ft.
 L Rating At 400F - less than 1 CFM/sq.ft.

SECTION A-A

- Floor or Wall assembly - Min. 2- 1/2" thick reinforced lightweight or normal weight (100-150) pcf concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max. diameter of opening is 18". See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
- 1A. Steel Sleeve - Optional, not shown) - Nom. 10" (or smaller) Schedule 10 (or heavier) steel sleeve cast or grouted into floor or wall assembly. Sleeve may extend a max. of 2" above top of floor or beyond either surface of wall. T Rating is 0 hr. when sleeve is used.
- Through Penetrants - Nom. 4" dia. (or smaller) type L (or heavier) copper pipe, nom. 12" dia. (or smaller) service weight (or heavier) cast iron soil pipe, nom. 12" dia. (or smaller) class 50 (or heavier) ductile iron pressure pipe or nom. 12" dia. (or smaller) Schedule 10 (or heavier) steel pipe centered in the opening and rigidly supported on both sides of the floor or wall assembly.
- Pipe-Covering* - Nom. 1/2 to 2" thick hollow cylindrical heavy density (min. 3.5 pcf) glass fiber units jacketed on the outside with an oil service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with built strip tape supplied with the product. See pipe and equipment covering - Materials(BRGU) category in Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less must be used.
- Firestop System - The details of the firestop system shall be as follows:
 - Packing Material - Nom. 1" thickness of firmly packed mineral wool batt insulation used as a permanent form. Packing material to be recessed from top surface of floor or above or from both surfaces of wall as required to accommodate the required thickness of caulk. Fill material (Item b).
 - Fill, Void or Cavity Material* - Caulk - Applied to fill the annular space flush with top surface of floor or sleeve or flush with both surfaces of wall. When nom. pipe covering thickness is 2", min. thickness of caulk fill material is 2". When nom. pipe covering thickness is 1-1/2" or less, min. thickness of caulk fill material is 1". The hourly F and T Ratings of the firestop system are dependent upon the thickness of the floor or wall, the size of pipe, the thickness of pipe covering material and the size of the annular space (between the pipe covering material and the edge of the circular through opening), as shown in the following table:

| Min. Floor Or Wall Thickness, in. | Max. Pipe Dia. | Nom. Pipe Covering Thickness, in. | Annular Space, in. | F Rating, Hr. | T Rating, Hr. |
|-----------------------------------|----------------|-----------------------------------|--------------------|---------------|---------------|
| 2-1/2 | 4 | 1 OR 1-1/2 | 1/2 TO 2-3/8 | 2 | 1 |
| 4-1/2 | 4 | 2 | 1/4 TO 3-5/8 | 2 | 1-1/2 |
| 2-1/2 | 12 | 1 | 1/2 TO 1-1/2 | 2 | 1/2 |
| 4-1/2 | 12 | 1 | 1/2 TO 2-3/8 | 3 | 1 |
| 2-1/2 | 12 | 1/2 | 1/2 TO 2-3/8 | 2 | 0 |

Minnesota Mining and Manufacturing Co. - Cp 25Wb+.
 *Bearing the UL Classification Marking

WALL/FLR-CONC-PIPE/INSULATED-2/3 HR 1

System No. C-AJ-1044 (Formerly system no. 319)
 F Rating - 2, 3 and 4 Hr (see Items 2A and 4)
 T Rating - 0 Hr
 L Rating At Ambient - 2 CFM/sq ft
 L Rating At 400 F - less than 1 CFM/sq ft

SECTION A-A

- floor or wall assembly - lightweight or normal weight (100-150pcf) concrete, except as noted in table under item 4, min thickness of solid concrete floor or wall assembly is 4-1/2". floor may also be constructed of a min. 8" thick, ul classified hollow core precast concrete units*, when floor is constructed of hollow core precast concrete units, packing material (item 3) and caulk fill material (item 4) to be installed symmetrically on both sides of floor, flush with floor surface. wall assembly may also be constructed of any ul classified concrete blocks*, max. dia. of opening is 10" lightweight or normal weight concrete. floor is 3/2" max. dia. of opening in floor constructed of hollow-core precast concrete units is 7". see concrete blocks (cazt) and precast concrete units (civb) categories in the fire resistance directory for names of manufacturers.
- 1A. steel sleeve - (optional, not shown) - max. 15" id (or smaller) schedule 10 (or heavier) steel sleeve cast or grouted into floor or wall assembly. sleeve may extend a max. of 2" above top of floor or beyond either surface of wall. max. 16" id (or smaller) min. 0.028 wall thickness (or heavier) galvanized steel sleeve cast or grouted into floor or wall assembly. sleeve may extend a max. of 1/2" beyond either surface of floor or wall.
- through penetrants - one metallic pipe, conduit or tubing to be installed either concentric, ally or eccentric ally within the firestop system. max annular space between pipe, conduit or tubing and edge of through opening or sleeve is dependent on the parameters shown in item 4, min. annular space between pipe or conduit and edge of through opening is 0", (point contact). pipe conduit or tubing to be rigidly supported on both sides of floor or wall assembly, the following types and sizes of metallic pipes, conduits or tubing may be used:
 - steel pipe - nom. 30" dia. (or smaller) schedule 10 (or heavier) steel pipe
 - iron pipe - nom. 30" dia. (or smaller) cast or ductile iron pipe
 - conduit - nom. 8" dia. (or smaller) rigid steel conduit
 - conduit - nom. 4" dia. (or smaller) steel electrical metallic tubing
 - copper tubing - nom. 8" dia. (or smaller) type L (or heavier) copper tube
 - copper pipe - nom. 8" dia. (or smaller) regular (or heavier) copper pipe
- packing material - polyethylene barker rod or nom. 1" thickness of tightly packed mineral wool batt or glass fiber insulation firmly packed into opening as a permanent form. packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of caulk fill material (item 4).
- fill, void or cavity material* - caulk - applied to fill the annular space flush with top surface of floor. in wall assemblies, required caulk thickness to be installed symmetrically on both sides of wall, flush with wall surface, at point contact location between penetrant and sleeve or between penetrant and concrete, a min. 1/4" dia. bead of caulk shall be applied at top surface pipe conduit or tubing to be rigidly supported on both sides of floor or wall of floor and at both surfaces of wall, the hourly F ratings and the min. required caulk thickness' are dependent upon a number of parameters, as shown in the following table:

| min. floor or wall thickness, in. | nom. pipe tube or conduit dia., in. | max. annular space, in. | min. caulk thickness, in. | f rating, hr. |
|-----------------------------------|-------------------------------------|-------------------------|---------------------------|---------------|
| 2-1/2 | 1/2-12 | 1-3/8 | 1/2 | 2 |
| 2-1/2 | 1/2-12 | 3-1/4 | 1 | 2 |
| 4-1/2 | 1/2-6 | 1-3/8 | 1/4 (A) | 2 |
| 4-1/2 | 1/2-12 | 1-1/4 | 1/2 | 1 |
| 4-1/2 | 1/2-20 | 2 | 1 | 3 |
| 4-1/2 | 1/2-20 | 2 | 1 | 3 |
| 4-1/2 | 1/2-12 | 3-1/4 | 1 | 3 |
| 4-1/2 | 1/2-6 | 1-3/8 | 1 (B) | 4 |

(A) min. 2" thickness of mineral wool batt insulation required in annular space.
 (B) min. 1" thickness of mineral wool batt insulation required in annular space. on both sides of floor or wall assembly. min 1" thickness of caulk to be installed flush with each surface of floor or wall assembly.

minnesota mining and manufacturing co. - cp 25Wb+.
 *bearing the ul classification marking

WALL/FLR-CONC-PIPE-2/3/4 HR 2

System No. W-L-5029 (Formerly system no. 147)
 F Rating - 1 and 2 Hr (See Item 1)
 T Rating - 1/2, 3/4, 1 and 1-3/4 Hr (See Item 3)
 L Rating At Ambient - 4 CFM/Sq Ft
 L Rating At 400 F - Less Than 1 CFM/Sq Ft

SECTION A-A

- Wall Assembly - The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.
 - Wallboard, Gypsum* - 5/8 in. thick, 4 ft wide, with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the Individual Wall and Partition Design. Max diam of opening is 18-5/8 in. The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
- Through Penetrants - One metallic pipe, conduit or tubing to be centered within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
 - Steel Pipe - Nom 12 in diam (or smaller) Schedule 10 (or heavier) steel pipe.
 - Conduit - Nom 4 in. diam (or smaller) electrical metallic tubing or steel conduit.
 - Copper Tubing - Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.
 - Copper Pipe - Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.
- Pipe Covering* - Nom 1, 1-1/2 or 2 in. thick hollow cylindrical heavy density (min 3.5 pcf) glass fiber units jacketed on the outside with an oil service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with built tape supplied with the product. See Pipe and Equipment Covering - Materials (BRGU) category in the Building Material Directory for the names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used. The hour T Rating of the firestop system is dependent on the hourly fire rating of the wall assembly in which it is installed, the size and type of through penetrant and the pipe covering thickness, as shown in the table below:

| Wall Assembly Rating | Through Penetrant Max Diam in. | Pipe Covering Thickness in. | Annular Space Min in. | Max in. | T Rating Hr. |
|----------------------|--------------------------------|-----------------------------|-----------------------|---------|--------------|
| 1 | A or B | 4 | 0 | 1-1/2 | 1/2 |
| 1 | C or D | 2 | 1 or 1-1/2 | 0 | 1-1/2 |
| 1 | A or B | 4 | 1-1/2 | 0 | 1-1/2 |
| 1 | A | 12 | 0 | 1-5/8 | 3/4 |
| 1 | C or D | 6 | 2 | 0 | 1-5/8 |
| 2 | A or B | 4 | 1 | 0 | 1-1/2 |
| 2 | C or D | 4 | 1 or 1-1/2 | 0 | 1-1/2 |
| 2 | C or D | 6 | 1-2 | 0 | 1-5/8 |
| 2 | A or B | 4 | 1-1/2 | 0 | 1-1/2 |
| 2 | A | 12 | 2 | 0 | 1-5/8 |
| 2 | C or D | 6 | 2 | 0 | 1-5/8 |
| 2 | A | 12 | 2 | 0 | 1-5/8 |

*Indicates penetrant type as itemized in Item 2
 (A) Fill, Void or Cavity Material* - Sealant - Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall for 1 or 2 hr walls, respectively. At the point contact location between pipe covering and gypsum wallboard, a min 1/2 in. diam bead of fill material shall be applied at the pipe covering/gypsum wallboard interface on both surfaces of wall.
 HILL CONSTRUCTION CHEMICALS, DIV OF HILLI, Inc - FS-ONE Sealant
 *Bearing the UL Classification Marking

WALL-DRYWALL-PIPE/INSULATED-1/2 HR 3

System No. W-L-1001 (Formerly System No. 147)
 F Rating--1, 2, 3 and 4 Hr (See Items 2 and 3)
 T Rating--1, 1/2, 3, and 4 Hr (See Items 2 and 3)
 L Rating At Ambient--less than 1 CFM/sq ft
 L Rating At 400 F--less than 1 CFM/sq ft

SECTION A-A

- Wall Assembly--The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs--Wall framing may consist of either wood studs (max 2 in fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC with nom 2 by 4 in. lumber end plates and cross braces. Steel studs to be min 3-5/8 in. wide by 1-3/8 in. deep channels spaced max 24 in. OC.
 - Wallboard, Gypsum --Nom 1/2 or 5/8 in. thick, 4 ft. wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 13-1/2 in.
- Pipe or Conduit--Nom 12 in. diam (or smaller) Schedule 10 (or heavier) steel pipe, nom 12 in. diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. diam (or smaller) Class 50 (or heavier) ductile iron pressure pipe, nom 6 in. diam (or smaller) steel conduit, nom 4 in. diam (or smaller) steel electrical metallic tubing, nom 6 in. diam (or smaller) Type L (or heavier) copper tubing or nom 1 in. diam (or smaller) flexible steel conduit. When copper pipe is used, max F Rating of firestop system (Item 3) is 2 hr. Steel pipes or conduits larger than nom 4 in. diam may only be used in walls constructed using steel channel studs. A max of one pipe or conduit is permitted in the firestop system. Pipe or conduit to be installed near center of stud cavity width and to be rigidly supported on both sides of wall assembly.
- Fill, Void or Cavity Material--Caulk--Caulk fill material installed to completely fill annular space between pipe or conduit and gypsum wallboard and with a min 1/4 in. diam bead of caulk applied to perimeter of pipe or conduit at its egress from the wall. Caulk installed symmetrically on both sides of wall assembly. The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

| Max Pipe or Conduit Diam In. | Annular Space In. | F Rating | T Rating Hr. |
|------------------------------|-------------------|----------|--------------|
| 1 | 3 to 3/16 | 1 or 2 | 0hr, 1 or 2 |
| 1 | 1/4 to 1/2 | 2 or 4 | 3 or 4 |
| 4 | 0 to 1-1/2 | 1 or 2 | 0 |
| 6 | 1/4 to 1/2 | 3 or 4 | 0 |
| 12 | 3/16 to 3/8 | 1 or 2 | 0 |

*When copper is used, T Rating is Oh.
 Minnesota Mining & Mfg. Co. --Types FB-2000, FB-2000+.
 *Bearing the UL Classification Marking

WALL-DRYWALL-PIPE-1/2/3/4 HR 4

LCS#-21-23-HKL-222



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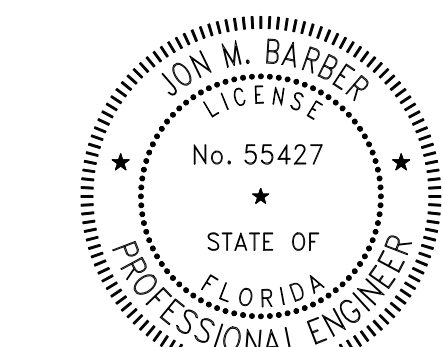
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PERMIT DOCUMENTS

CLIENT
LEON COUNTY SCHOOLS

PROJECT TITLE
LCS NIMS MIDDLE SCHOOL

723 W Orange Avenue, Tallahassee, FL 32310

PROJECT NUMBER

240202

ISSUE DATE

11/11/2024

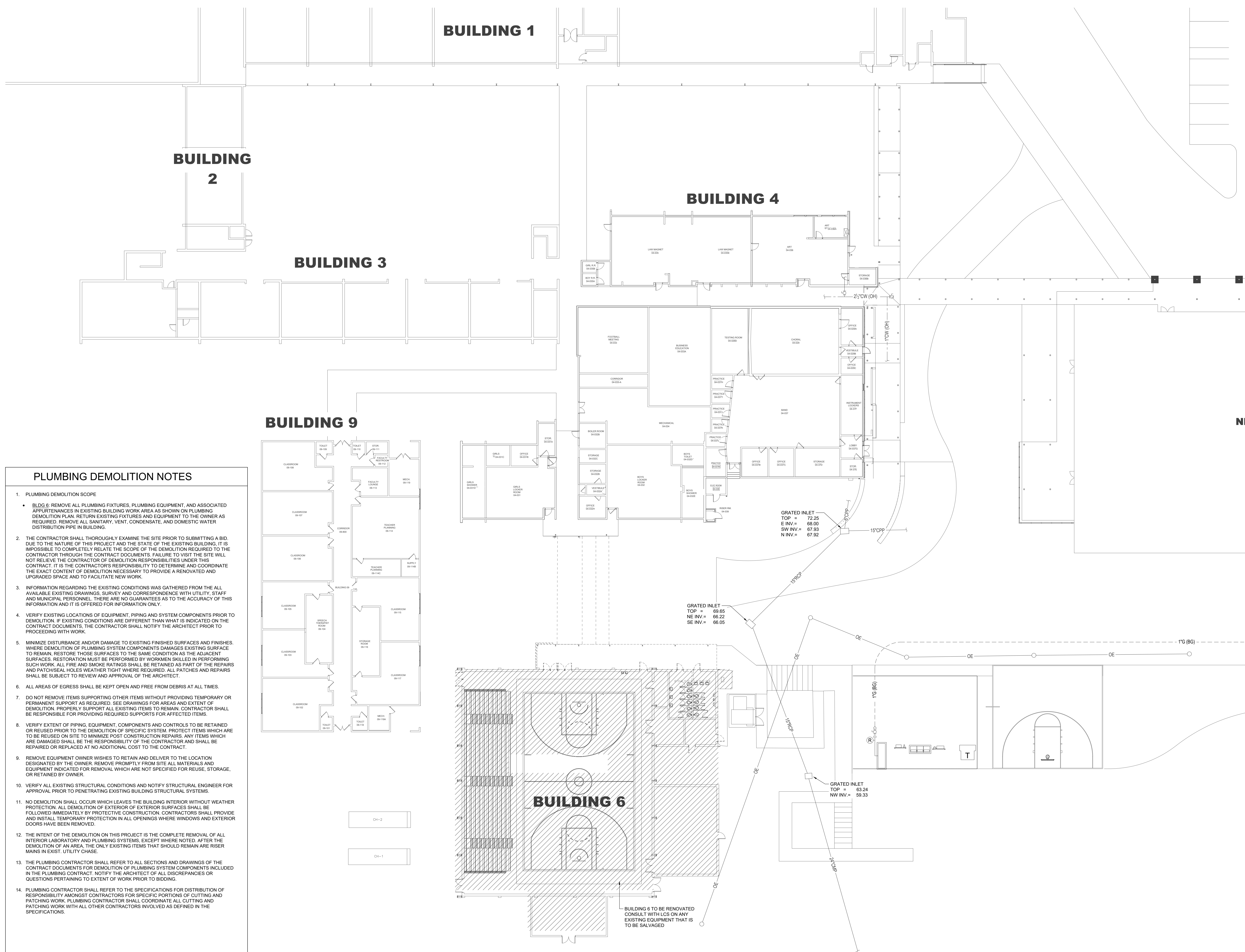
DRAWING TITLE

PLUMBING DEMOLITION SITE PLAN - GYM

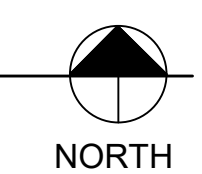
SHEET NUMBER

P200

LCS# 21-23-HKL-222



- PLUMBING DEMOLITION NOTES**
- PLUMBING DEMOLITION SCOPE**
 - BLDG 6: REMOVE ALL PLUMBING FIXTURES, PLUMBING EQUIPMENT, AND ASSOCIATED APPURTENANCES IN EXISTING BUILDING WORK AREA AS SHOWN ON PLUMBING DEMOLITION PLAN. RETURN EXISTING FIXTURES AND EQUIPMENT TO THE OWNER AS REQUIRED. REMOVE ALL SANITARY, VENT, CONDENSATE, AND DOMESTIC WATER DISTRIBUTION PIPE IN BUILDING.
 - THE CONTRACTOR SHALL THOROUGHLY EXAMINE THE SITE PRIOR TO SUBMITTING A BID, DUE TO THE NATURE OF THIS PROJECT AND THE STATE OF THE EXISTING BUILDING, IT IS IMPOSSIBLE TO COMPLETELY RELATE THE SCOPE OF THE DEMOLITION REQUIRED TO THE CONTRACTOR THROUGH THE CONTRACT DOCUMENTS. FAILURE TO VISIT THE SITE WILL NOT RELIEVE THE CONTRACTOR OF DEMOLITION RESPONSIBILITIES UNDER THIS CONTRACT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND COORDINATE THE EXACT CONTENT OF DEMOLITION NECESSARY TO PROVIDE A RENOVATED AND UPGRADED SPACE AND TO FACILITATE NEW WORK.
 - INFORMATION REGARDING THE EXISTING CONDITIONS WAS GATHERED FROM THE ALL AVAILABLE EXISTING DRAWINGS, SURVEY AND CORRESPONDENCE WITH UTILITY, STAFF AND MUNICIPAL PERSONNEL. THERE ARE NO GUARANTEES AS TO THE ACCURACY OF THIS INFORMATION AND IT IS OFFERED FOR INFORMATION ONLY.
 - VERIFY EXISTING LOCATIONS OF EQUIPMENT, PIPING AND SYSTEM COMPONENTS PRIOR TO DEMOLITION. IF EXISTING CONDITIONS ARE DIFFERENT THAN WHAT IS INDICATED ON THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
 - MINIMIZE DISTURBANCE AND/OR DAMAGE TO EXISTING FINISHED SURFACES AND FINISHES. WHERE DEMOLITION OF PLUMBING SYSTEM COMPONENTS DAMAGES EXISTING SURFACE TO REMAIN, RESTORE THOSE SURFACES TO THE SAME CONDITION AS THE ADJACENT SURFACES. RESTORATION MUST BE PERFORMED BY WORKMEN SKILLED IN PERFORMING SUCH WORK. ALL FIRE AND SMOKE RATINGS SHALL BE RETAINED AS PART OF THE REPAIRS AND PATCH/SEAL HOLES WEATHER TIGHT WHERE REQUIRED. ALL PATCHES AND REPAIRS SHALL BE SUBJECT TO REVIEW AND APPROVAL OF THE ARCHITECT.
 - ALL AREAS OF EGRESS SHALL BE KEPT OPEN AND FREE FROM DEBRIS AT ALL TIMES.
 - DO NOT REMOVE ITEMS SUPPORTING OTHER ITEMS WITHOUT PROVIDING TEMPORARY OR PERMANENT SUPPORT AS REQUIRED. SEE DRAWINGS FOR AREAS AND EXTENT OF DEMOLITION. PROPERLY SUPPORT ALL EXISTING ITEMS TO REMAIN. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING REQUIRED SUPPORTS FOR AFFECTED ITEMS.
 - VERIFY EXTENT OF PIPING, EQUIPMENT, COMPONENTS AND CONTROLS TO BE RETAINED OR REUSED PRIOR TO THE DEMOLITION OF SPECIFIC SYSTEM. PROTECT ITEMS WHICH ARE TO BE REUSED ON SITE TO MINIMIZE POST CONSTRUCTION REPAIRS. ANY ITEMS WHICH ARE DAMAGED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE CONTRACT.
 - REMOVE EQUIPMENT OWNER WISHES TO RETAIN AND DELIVER TO THE LOCATION DESIGNATED BY THE OWNER. REMOVE PROMPTLY FROM SITE ALL MATERIALS AND EQUIPMENT INDICATED FOR REMOVAL WHICH ARE NOT SPECIFIED FOR REUSE, STORAGE, OR RETAINED BY OWNER.
 - VERIFY ALL EXISTING STRUCTURAL CONDITIONS AND NOTIFY STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO PENETRATING EXISTING BUILDING STRUCTURAL SYSTEMS.
 - NO DEMOLITION SHALL OCCUR WHICH LEAVES THE BUILDING INTERIOR WITHOUT WEATHER PROTECTION. ALL DEMOLITION OF EXTERIOR OF EXTERIOR SURFACES SHALL BE FOLLOWED IMMEDIATELY BY PROTECTIVE CONSTRUCTION. CONTRACTORS SHALL PROVIDE AND INSTALL TEMPORARY PROTECTION IN ALL OPENINGS WHERE WINDOWS AND EXTERIOR DOORS HAVE BEEN REMOVED.
 - THE INTENT OF THE DEMOLITION ON THIS PROJECT IS THE COMPLETE REMOVAL OF ALL INTERIOR LABORATORY AND PLUMBING SYSTEMS, EXCEPT WHERE NOTED. AFTER THE DEMOLITION OF AN AREA, THE ONLY EXISTING ITEMS THAT SHOULD REMAIN ARE RISER MAINS IN EXIST. UTILITY CHASE.
 - THE PLUMBING CONTRACTOR SHALL REFER TO ALL SECTIONS AND DRAWINGS OF THE CONTRACT DOCUMENTS FOR DEMOLITION OF PLUMBING SYSTEM COMPONENTS INCLUDED IN THE PLUMBING CONTRACT. NOTIFY THE ARCHITECT OF ALL DISCREPANCIES OR QUESTIONS PERTAINING TO EXTENT OF WORK PRIOR TO BIDDING.
 - PLUMBING CONTRACTOR SHALL REFER TO THE SPECIFICATIONS FOR DISTRIBUTION OF RESPONSIBILITY AMONGST CONTRACTORS FOR SPECIFIC PORTIONS OF CUTTING AND PATCHING WORK. PLUMBING CONTRACTOR SHALL COORDINATE ALL FITTING AND PATCHING WORK WITH ALL OTHER CONTRACTORS INVOLVED AS DEFINED IN THE SPECIFICATIONS.





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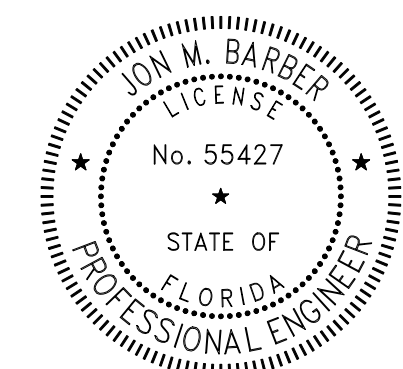
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PERMIT DOCUMENTS

CLIENT

LEON COUNTY SCHOOLS

PROJECT TITLE

LCS NIMS MIDDLE SCHOOL

723 W Orange Avenue,
Tallahassee, FL 32310

PROJECT NUMBER

240202

ISSUE DATE

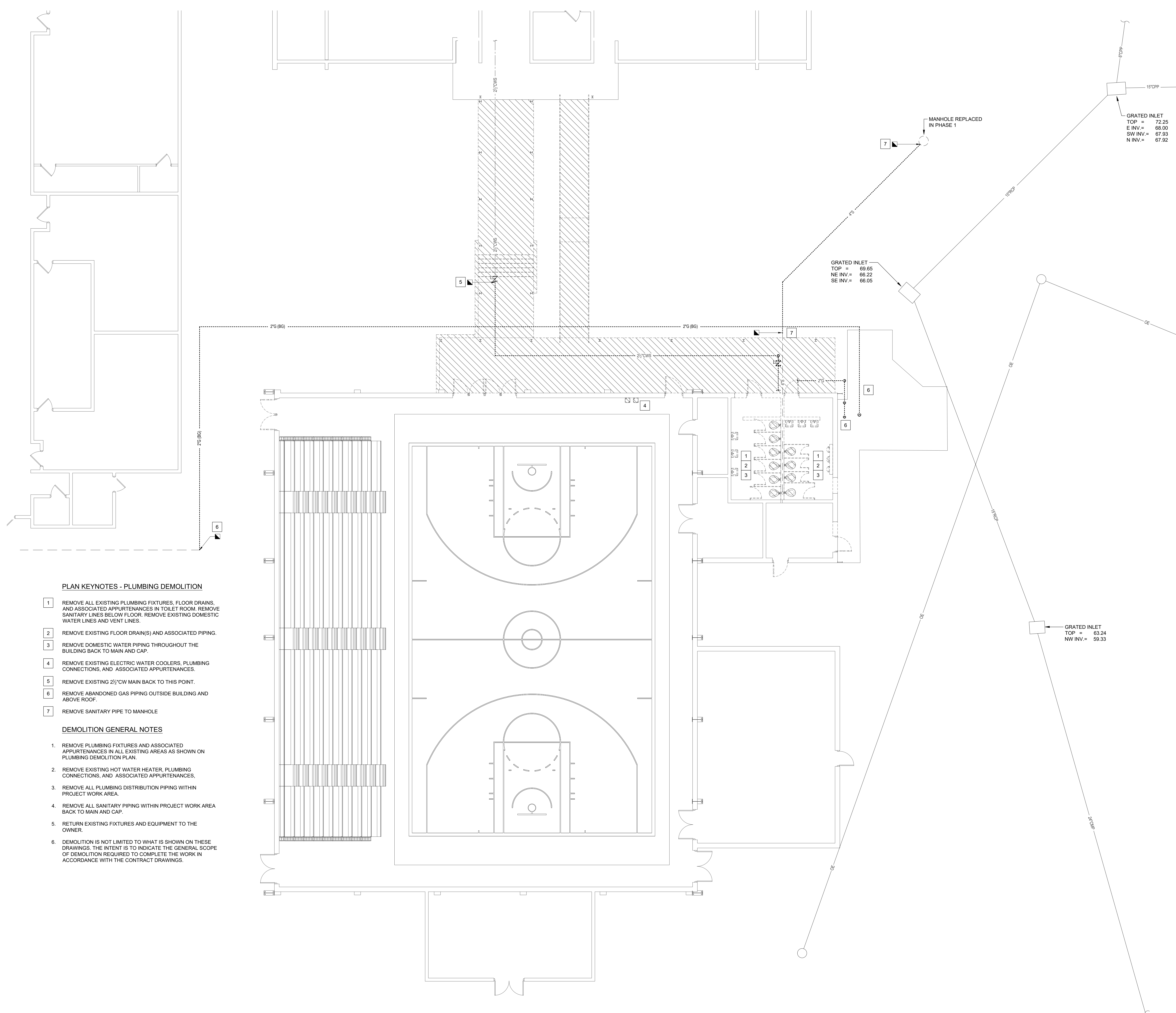
11/11/2024

DRAWING TITLE

PLUMBING DEMOLITION PLAN - GYM

SHEET NUMBER

P201



PLAN KEYNOTES - PLUMBING DEMOLITION

- 1 REMOVE ALL EXISTING PLUMBING FIXTURES, FLOOR DRAINS, AND ASSOCIATED APPURTENANCES IN TOILET ROOM. REMOVE SANITARY LINES BELOW FLOOR. REMOVE EXISTING DOMESTIC WATER LINES AND VENT LINES.
- 2 REMOVE EXISTING FLOOR DRAIN(S) AND ASSOCIATED PIPING.
- 3 REMOVE DOMESTIC WATER PIPING THROUGHOUT THE BUILDING BACK TO MAIN AND CAP.
- 4 REMOVE EXISTING ELECTRIC WATER COOLERS, PLUMBING CONNECTIONS, AND ASSOCIATED APPURTENANCES.
- 5 REMOVE EXISTING 2½" CW MAIN BACK TO THIS POINT.
- 6 REMOVE ABANDONED GAS PIPING OUTSIDE BUILDING AND ABOVE ROOF.
- 7 REMOVE SANITARY PIPE TO MANHOLE

DEMOLITION GENERAL NOTES

- 1. REMOVE PLUMBING FIXTURES AND ASSOCIATED APPURTENANCES IN ALL EXISTING AREAS AS SHOWN ON PLUMBING DEMOLITION PLAN.
- 2. REMOVE EXISTING HOT WATER HEATER, PLUMBING CONNECTIONS, AND ASSOCIATED APPURTENANCES.
- 3. REMOVE ALL PLUMBING DISTRIBUTION PIPING WITHIN PROJECT WORK AREA.
- 4. REMOVE ALL SANITARY PIPING WITHIN PROJECT WORK AREA BACK TO MAIN AND CAP.
- 5. RETURN EXISTING FIXTURES AND EQUIPMENT TO THE OWNER.
- 6. DEMOLITION IS NOT LIMITED TO WHAT IS SHOWN ON THESE DRAWINGS. THE INTENT IS TO INDICATE THE GENERAL SCOPE OF DEMOLITION REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH THE CONTRACT DRAWINGS.





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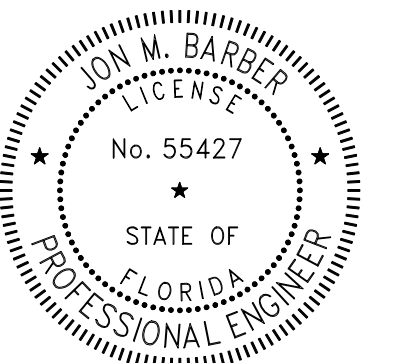
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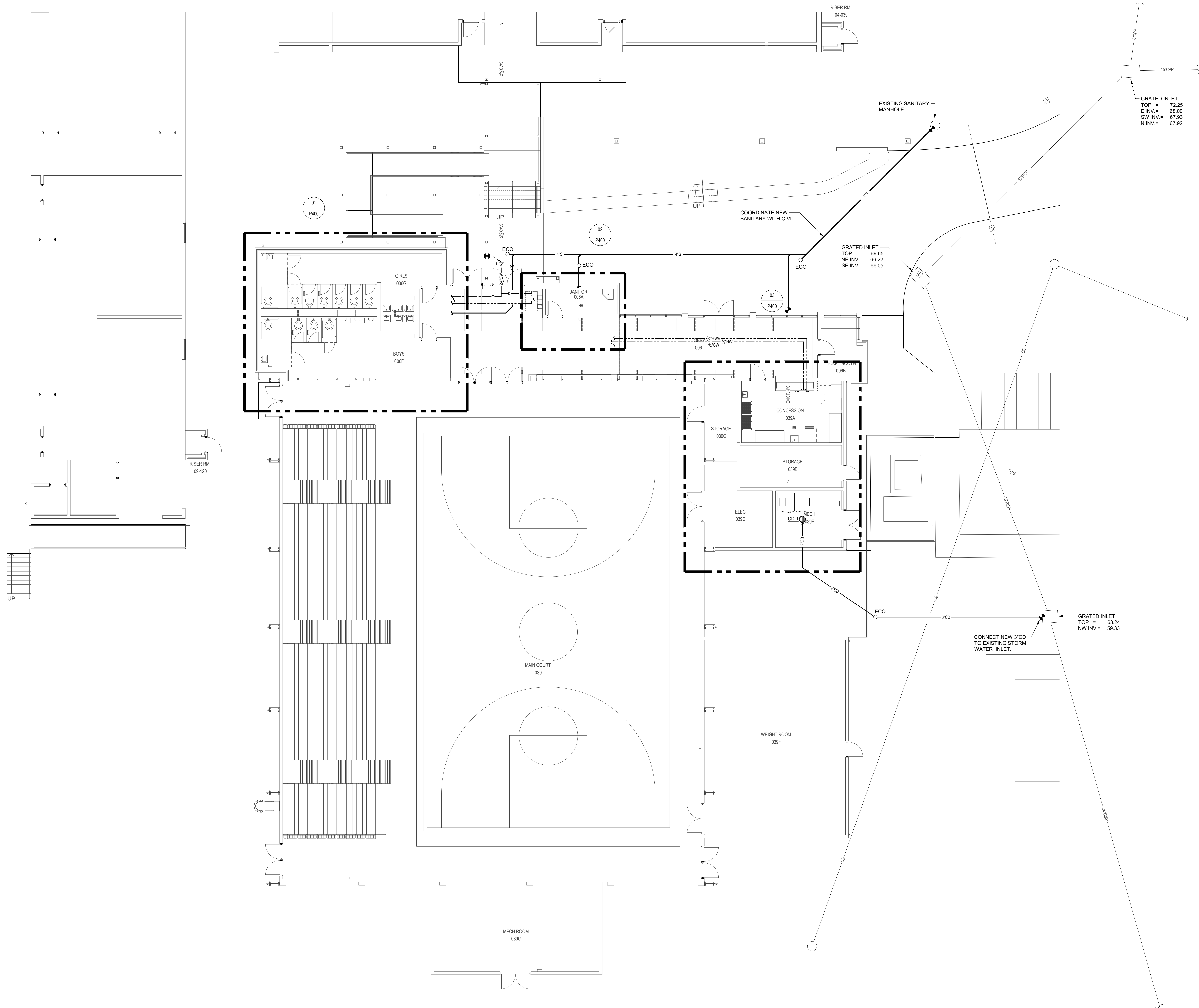
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DRAWING TITLE

PLUMBING NEW WORK PLAN - GYM

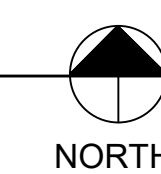
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01 BUILDING 6 PLUMBING NEW WORK PLAN

1/8" = 1'-0"



NORTH

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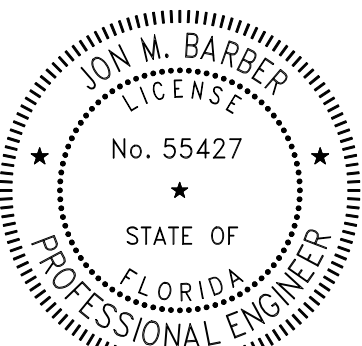
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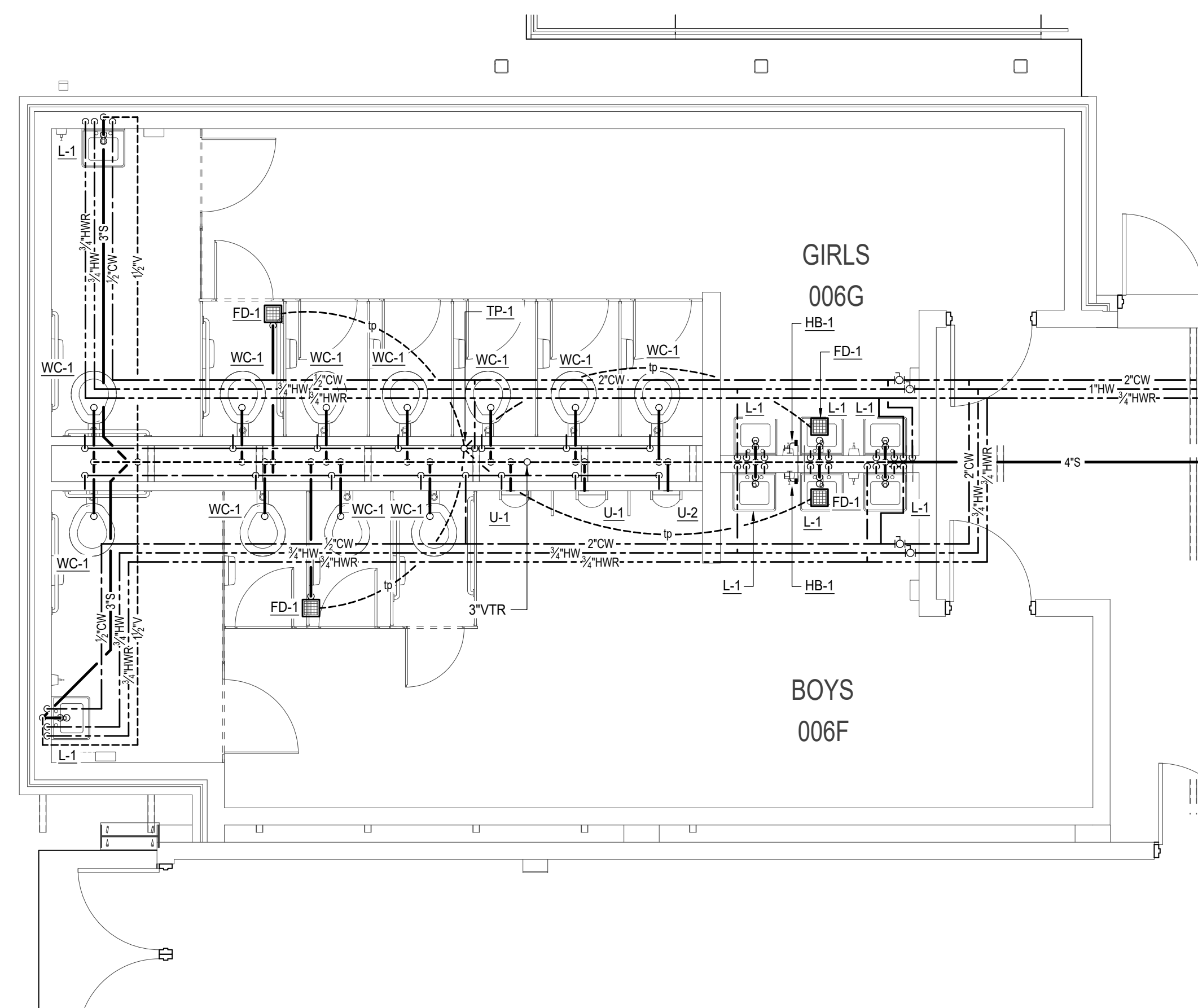
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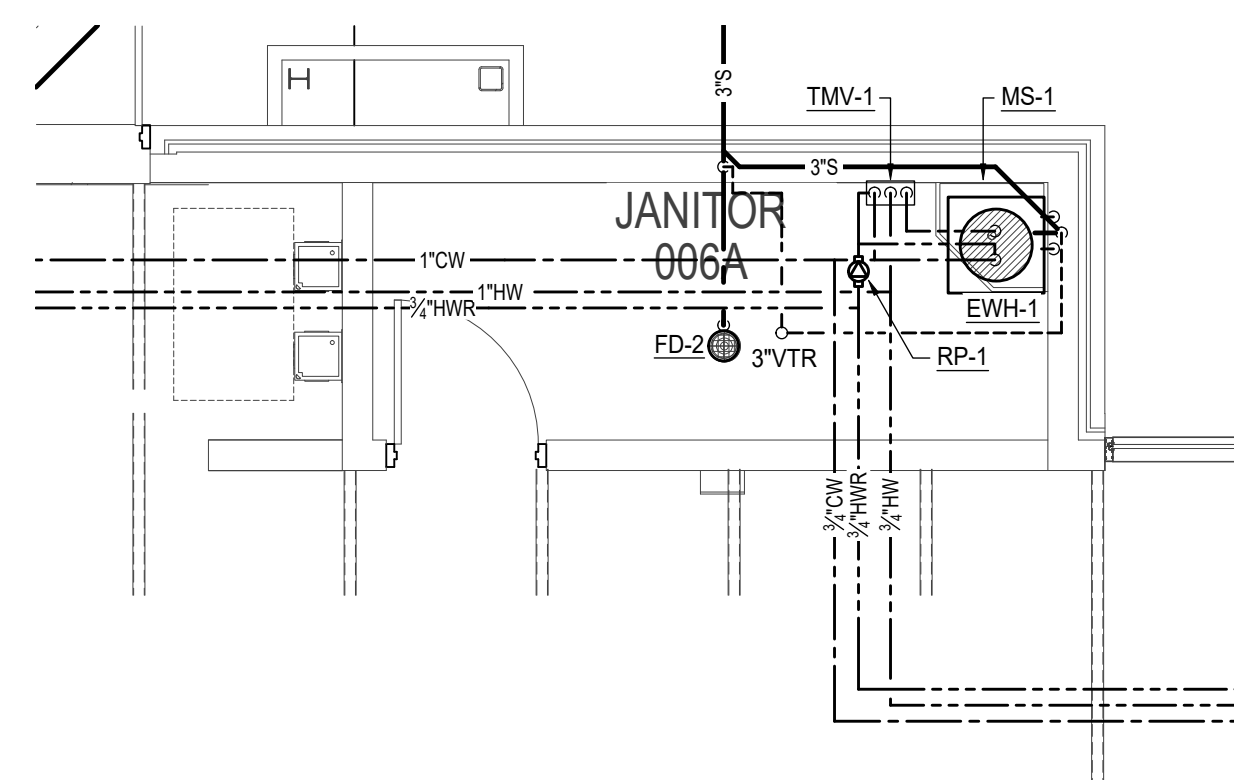
PLUMBING ENLARGED PLANS - GYM

SHEET NUMBER

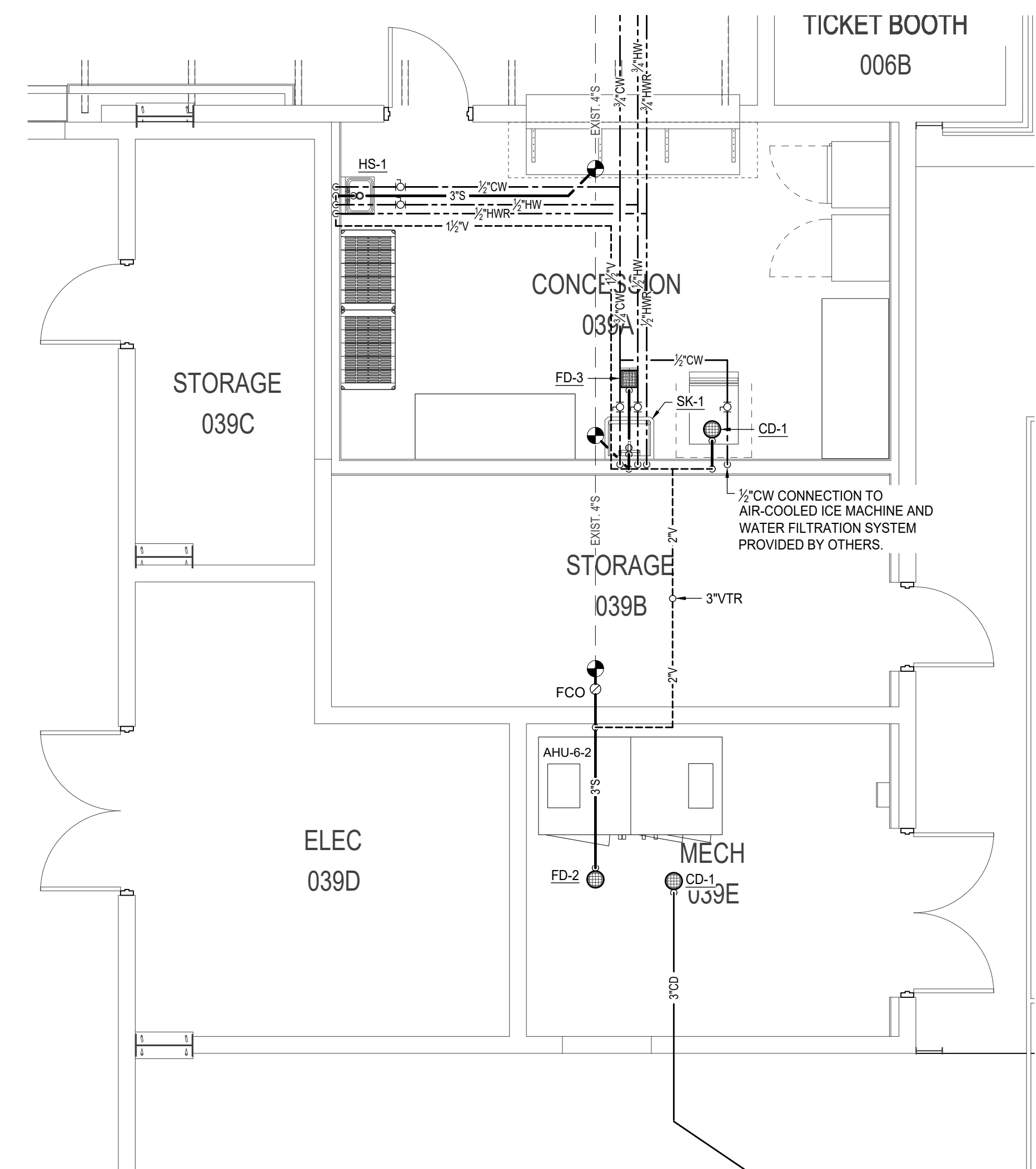
P400



01 BUILDING 6 PLUMBING ENLARGED PLAN
1/4" = 1'-0"



02 BUILDING 6 PLUMBING ENLARGED PLAN
1/4" = 1'-0"



03 BUILDING 6 PLUMBING ENLARGED PLAN
1/4" = 1'-0"



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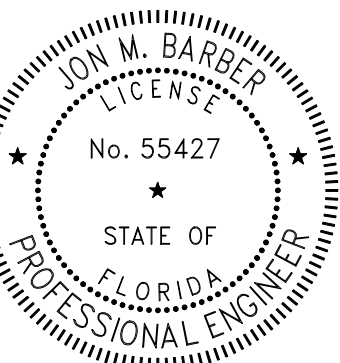
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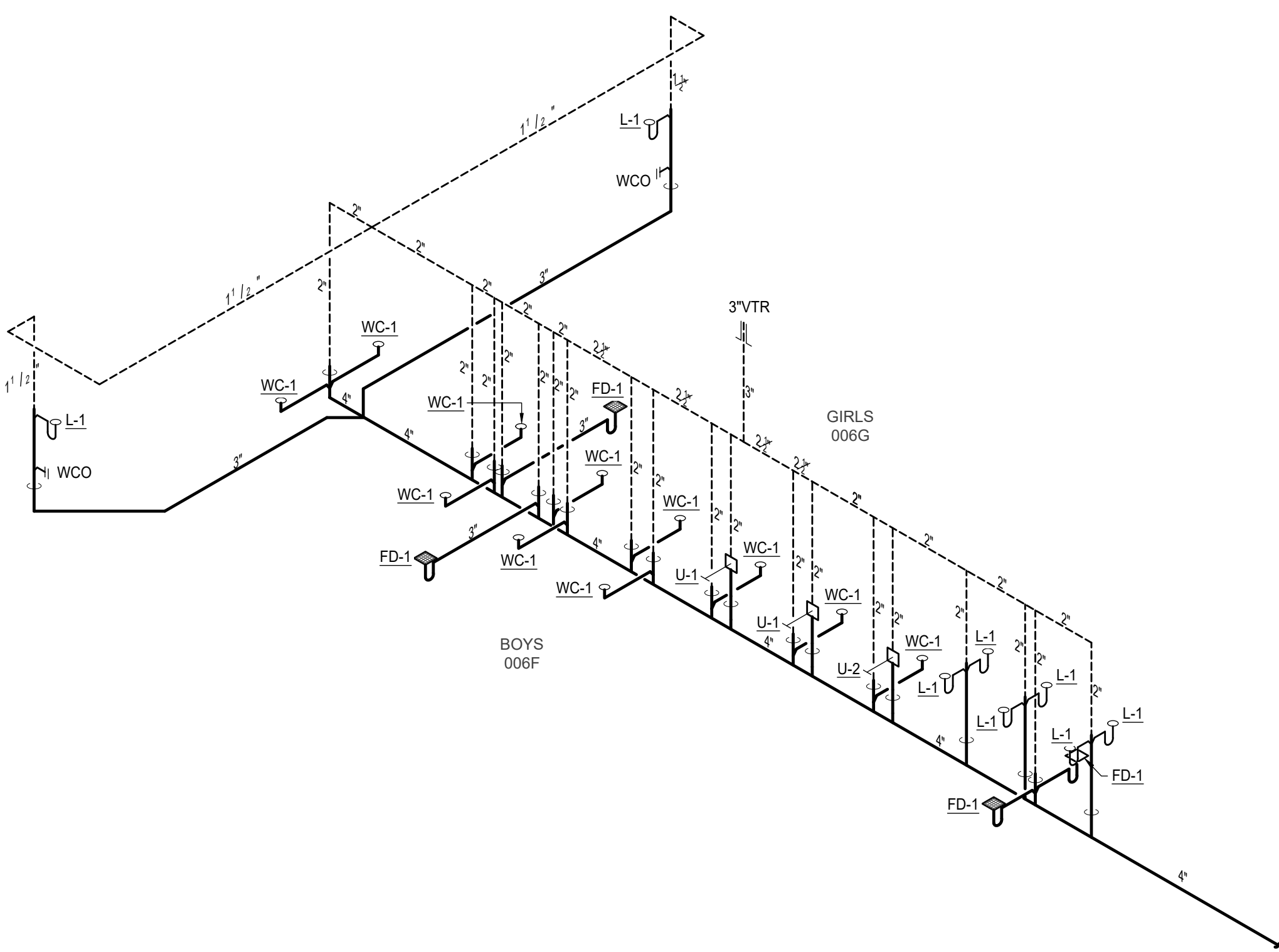
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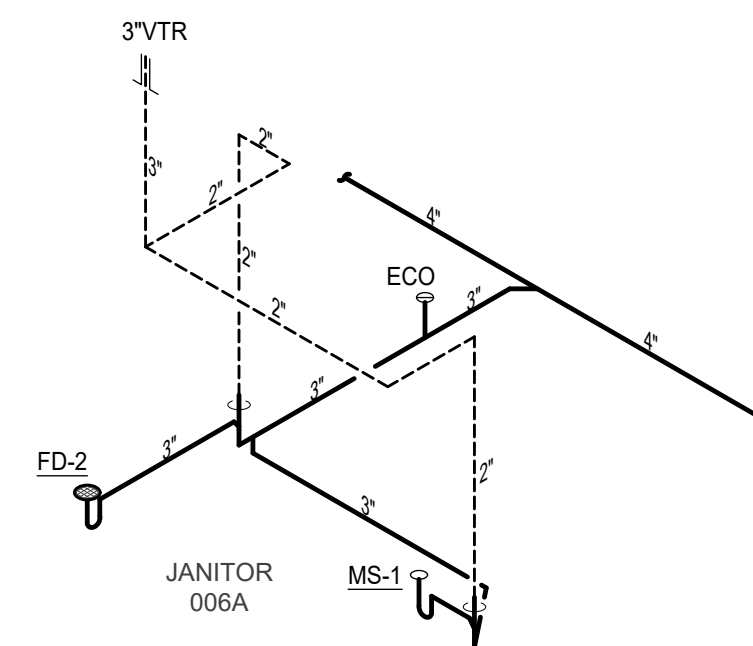
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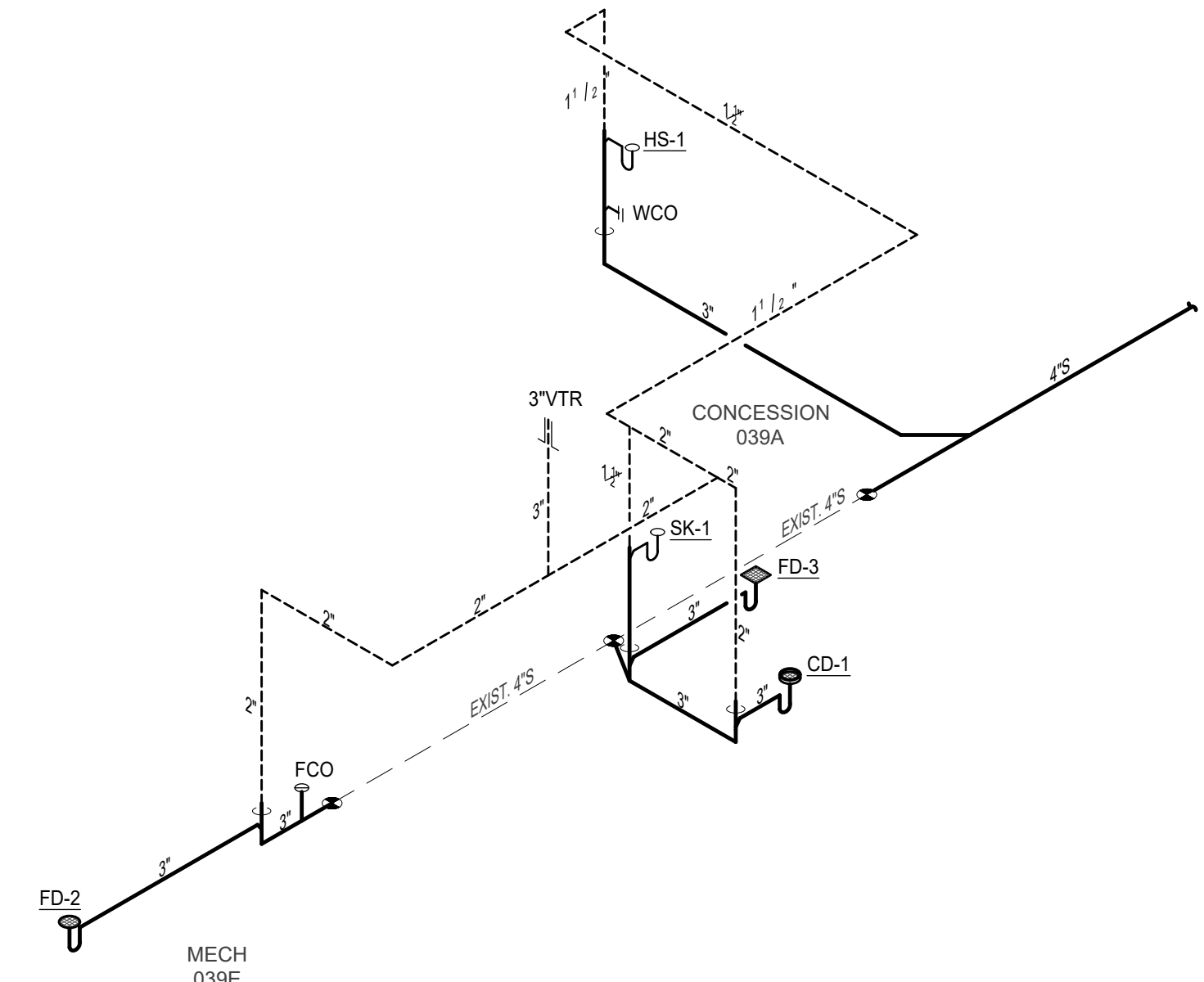
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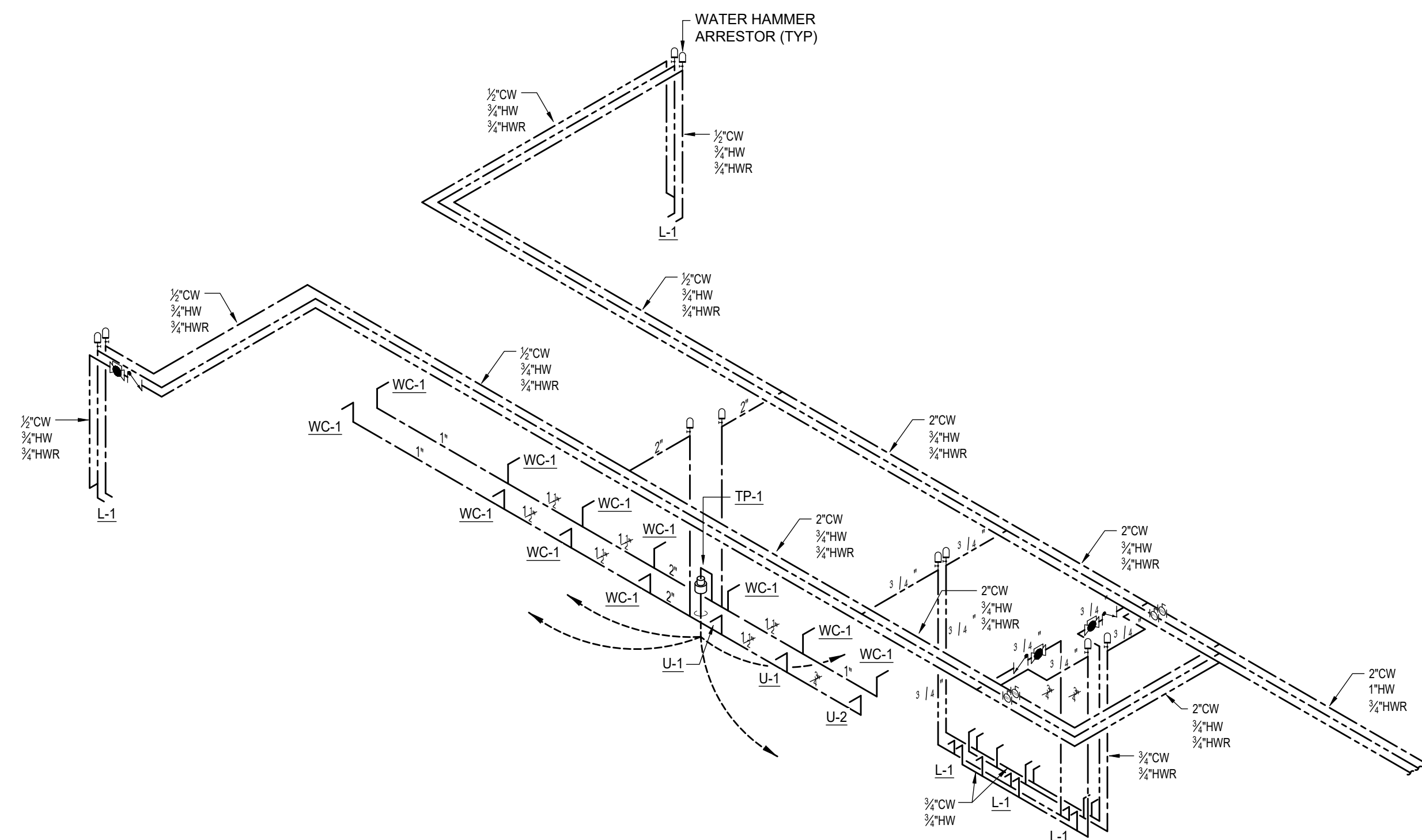
01 PLUMBING RISER - SANITARY
NTS



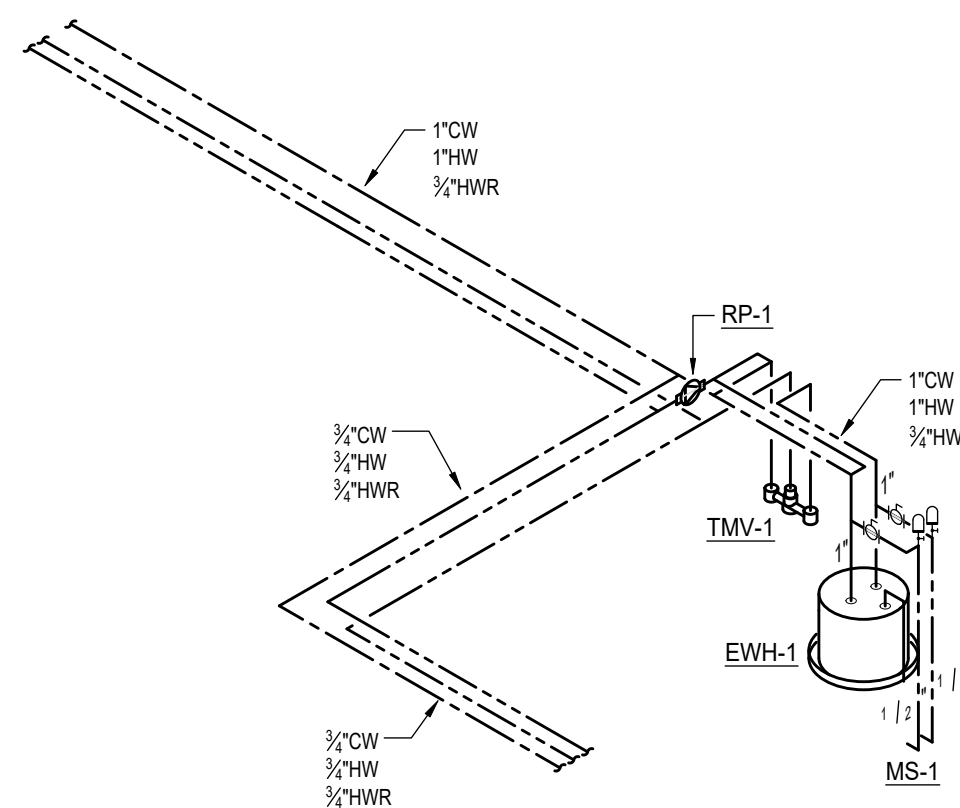
02 PLUMBING RISER - SANITARY
NTS



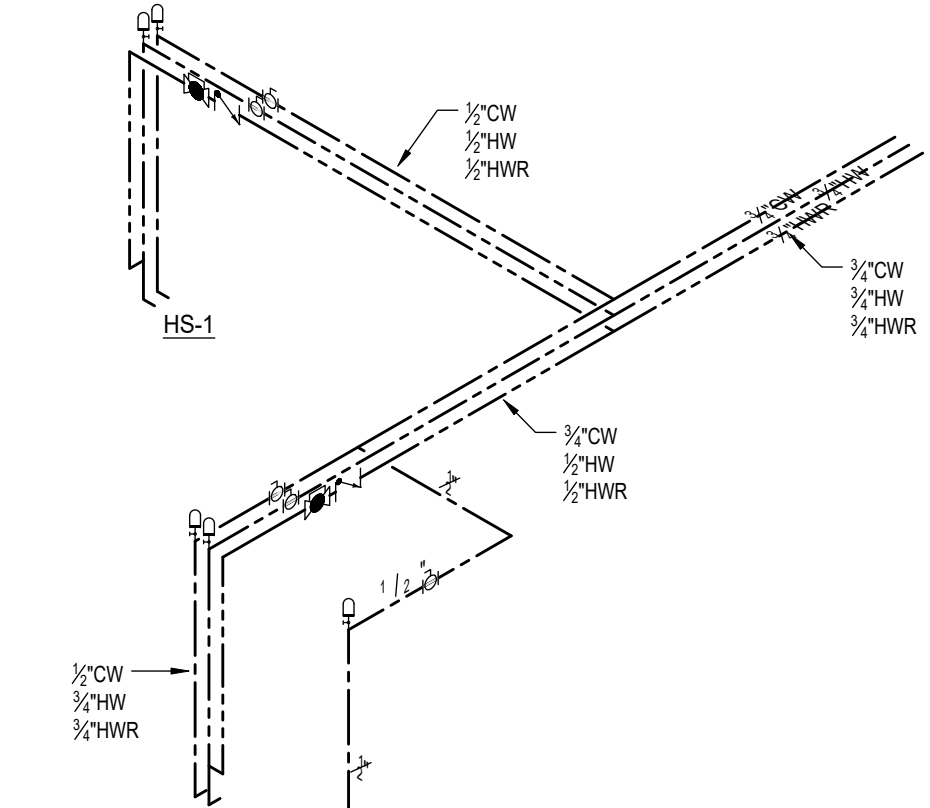
03 PLUMBING RISER - SANITARY
NTS



04 PLUMBING RISER - DOMESTIC WATER
NTS



05 PLUMBING RISER - DOMESTIC WATER
NTS



06 PLUMBING RISER - DOMESTIC WATER
NTS