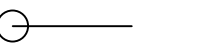
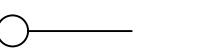
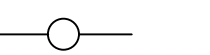
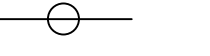
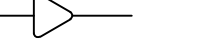
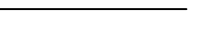
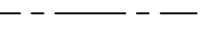
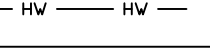
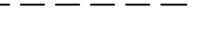


PLUMBING LEGEND	
SYMBOL	
	ELBOW DOWN
	ELBOW UP
	TEE UP
	TEE DOWN
	CHANGE IN PIPE SIZE
	SANITARY PIPE
	DOMESTIC COLD WATER
	HOT WATER
	VENT PIPING

PLUMBING NOTES:

1. DESCRIPTION:

A. THE NON-TECHNICAL SPECIFICATIONS AND GENERAL CONDITIONS OF THESE SPECIFICATIONS ARE APPLICABLE IN FULL HERETO.

B. INCLUDE ALL EQUIPMENT, MATERIAL AND LABOR REQUIRED FOR COMPLETE AND OPERATING PLUMBING SYSTEMS. DUE TO THE SMALL SCALE OF THE FLOOR PLANS AND DIAGNOSTIC RISER DIAGRAMS, SOME ITEMS INVOLVED MAY NOT BE INCLUDED.

12. WORK INCLUDED:

A. WORK WILL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING SYSTEMS COMPLETE WITH ALL REQUIRED ACCESSORIES:

- 1. A SYSTEM OF SANITARY SOIL, WASTE AND VENT PIPING.
- 2. A SYSTEM OF DOMESTIC HOT AND COLD WATER PIPING.
- 3. PLUMBING FIXTURES, EQUIPMENT, ACCESSORIES, TRIM AS SPECIFIED HEREIN.
- 4. WATER SERVICE TO EACH FIXTURE REQUIRING SUCH SERVICE.
- 5. SANITARY BUILDING DRAINS AND FIXTURE BRANCHES FROM EACH FIXTURE REQUIRING SUCH SERVICE.
- 6. PIPING INCIDENTAL TO HEATING AND AIR CONDITIONING WORK TO THE EXTENT HEREIN SPECIFIED.

1.3 LAWS AND CODES:

A. THE CONTRACTOR SHALL INSTALL ALL WORK IN STRICT COMPLIANCE WITH ALL APPLICABLE CODES AND BE INCLUSIVE OF ALL STATE AND LOCAL CODES. ALL PROVISIONS OF THIS SECTION APPLY TO ALL PLUMBING WORK.

B. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES AND CHARGES REQUIRED INCIDENTAL TO THE WORK INVOLVED THAT MAY BE NECESSARY FOR FULLY COMPLETING THE WORK.

C. THE CONTRACTOR SHALL MAKE ALL NECESSARY TESTS REQUIRED BY LOCAL AUTHORITIES, LEGAL REGULATIONS AND RETURN TO THE ENGINEER ANY CERTIFICATE OF APPROVAL ISSUED FOR ALL PLUMBING WORK SIGNED BY THE INSPECTING ADMINISTRATIVE AUTHORITY IN CHARGE OF EACH PARTICULAR PART OF THE WORK.

14. QUALIFICATIONS:

A. THE CONTRACTOR SHALL BE A LICENSED PLUMBER CERTIFIED BY THE STATE.

15. DRAWINGS:

A. IN THE INTEREST OF CLEARNESS, THE WORK IS NOT ALWAYS SHOWN TO SCALE OR EXACT LOCATION. CHECK ALL MEASUREMENTS, LOCATION OF PIPES, DUCTS AND EQUIPMENT WITH THE DETAIL ARCHITECTURAL, STRUCTURAL AND ELECTRICAL DRAWINGS, AND LAY OUT WORK SO AS TO FIT IN WITH CEILING GRIDS, LIGHTING AND OTHER PARTS. WHERE DOUBT ARISES AS TO THE MEANING OF THE PLANS AND SPECIFICATIONS, OBTAIN THE ENGINEER'S DECISION BEFORE PROCEEDING WITH PARTS AFFECTED OTHERWISE ASSUME LIABILITY FOR DAMAGE TO OTHER WORK AND FOR MAKING NECESSARY CORRECTIONS TO WORK IN QUESTION.

16. CHANGES AND CONFLICTS:

A. IF DURING CONSTRUCTION DESIRABLE OR NECESSARY CHANGES BECOME APPARENT, ADVISE THE ENGINEER AND SECURE HIS DECISION IN WRITING. OTHERWISE, MAKE NO DEVIATION FROM THE SYSTEM AS DETAILED.

17. GUARANTEE AND SERVICE:

A. THE CONTRACTOR SHALL GUARANTEE ALL PIPING, EQUIPMENT, FIXTURES AND RELATED MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE AGAINST DEFECTS DUE TO FAULTY WORKMANSHIP OR MATERIALS. SUCH DEFECTS WILL BE CORRECTED PROMPTLY AFTER NOTIFICATIONS BY THE ENGINEER AND AT THE CONTRACTOR'S EXPENSE WITH NO COST TO THE OWNER.

B. THE CONTRACTOR SHALL ALSO FURNISH WITHOUT CHARGE, ANY REASONABLE SERVICE IN MAKING MINOR ADJUSTMENTS TO FIXTURES AND EQUIPMENT FOR THE SAME PERIOD. BUT THIS SERVICE WILL NOT INCLUDE THE REPLACEMENT OF PARTS DAMAGED BY MALICIOUSNESS OR VANDALISM AFTER ACCEPTANCE BY THE OWNER, OR CLEARING OF OBSTRUCTION FROM SELEERS CAUSED BY OTHER THAN DEFECTS IN THE LINE.

18. SUBMITTAL DATA:

A. WITHIN 30 DAYS AFTER AWARD OF CONTRACT, SUBMIT FOR APPROVAL A COMPLETE SCHEDULE OF MATERIAL AND EQUIPMENT PROPOSED. PARTS LISTS WILL NOT BE CONSIDERED, INCLUDE CATALOG DATA, SCHEDULED CAPACITIES, ETC. WHERE SUBSTITUTIONS ARE PROPOSED, FOLLOW PROCEDURES SET FORTH IN THE GENERAL CONDITIONS.

B. UPON REQUEST SUBMIT SHOP DRAWINGS SHOWING PROPOSED ARRANGEMENT OF EQUIPMENT, PIPING, FLOOR DRAINS, POWER REQUIREMENTS AND CONTROLS. IN ANY CASE, SUBMIT DETAIL LAYOUTS OF POTENTIAL CONFLICTS AT PLUMBING DROPS, EQUIPMENT ROOMS, TIGHT CEILING, ETC.

19. EXISTING CONDITIONS:

A. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME ACQUAINTED WITH ALL JOB CONDITIONS. NO CONSIDERATIONS WILL BE GIVEN AFTER BID OPENING FOR ALLEGED MISUNDERSTANDING REGARDING UTILITY CONNECTIONS, PERMITS, FEES, ETC.

B. THE DRAWINGS INDICATE SYSTEMS WHICH ARE LOCATED IN EXISTING PARTITIONS AND BEHIND WALLS. THE CONTRACTOR SHALL LOCATE AND VERIFY ALL PIPING CONNECTIONS AND INCLUDE IN HIS BID CONSIDERATIONS FOR THE RELOCATION OF SUCH SYSTEMS IF CONNECTIONS CAN NOT BE MADE AS SHOWN ON THE DRAWINGS.

C. THE CONTRACTOR IS REQUIRED TO CONNECT TO EXISTING PLUMBING SYSTEMS FOR THE CONSTRUCTION OF THIS PROJECT AND IS REQUIRED TO KEEP DISRUPTION OF THE EXISTING SYSTEMS TO A MINIMUM. SCHEDULE CONNECTION TO EXISTING SYSTEMS IN ADVANCE AND ADVISE THE OWNER TO THE LENGTH OF TIME SUCH SYSTEMS WILL NOT BE IN OPERATION. THE CONTRACTOR SHALL MAKE CONNECTIONS AFTER HOURS OR ON WEEKENDS IF REQUESTED BY THE OWNER, NO CONSIDERATIONS WILL BE GIVEN AFTER BID OPENING FOR ALLEGED MISUNDERSTANDING REGARDING UTILITY CONNECTIONS, PERMITS, FEES, ETC.

110. PHASING:

A. INTERRUPT EXISTING SERVICES ONLY AT TIMES APPROVED BY THE OWNER. HOLD INTERRUPTIONS TO THE MINIMUM IN DURATION AND FREQUENCY.

111. AS-BUILT DRAWINGS:

A. O.M.T.

112. MANUALS:

A. FURNISH FIVE (5) COPIES OF MAINTENANCE INSTRUCTIONS, OPERATING INSTRUCTIONS AND PARTS LISTS FOR ALL FIXTURES AND EQUIPMENT BOUND INTO FIVE (5) MANUALS. LOOSE SHEETS WILL NOT BE ACCEPTED. ONE MANUAL WILL BE SUBMITTED TO THE ENGINEER COMPLETE, PRIOR TO FINAL INSPECTION AND FINAL PAYMENT. THE REMAINING FOUR (4) MANUALS WILL BE SUBMITTED TO THE ENGINEER.

113. COORDINATION OF WORK WITH OTHER TRADES:

A. THE CONTRACTOR SHALL LAYOUT AND PROCEED WITH THIS WORK SO THAT THIS WORK WILL BE EXECUTED IN HARMONY WITH ALL OTHER CONTRACTS PERTAINING TO THIS PROJECT.

B. ALL ELECTRICAL POWER WIRING REQUIRED FOR INSTALLATION OF EQUIPMENT UNDER THIS SECTION IS SPECIFIED UNDER ELECTRICAL DIVISION. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL CONTROLS, AND CONTROL WIRING AS SPECIFIED OR REQUIRED TO PROPERLY COMPLETE THE INSTALLATION. CONTROL CONDUIT IS SPECIFIED UNDER ELECTRICAL DIVISION TO THE EXTENT SHOWN ON ELECTRICAL DRAWINGS ALL OTHER CONTROL CONDUIT SHALL BE PROVIDED UNDER THIS SECTION OF WORK. ALL ELECTRICAL WORK PERFORMED UNDER THIS SECTION SHALL MEET REQUIREMENTS SET FORTH IN THE ELECTRICAL DIVISION.

C. PIPE SLEEVES - FIT ALL PIPES PASSING THROUGH MASONRY AND JOB CAST CONCRETE CONSTRUCTION WITH SLEEVES. SLEEVES SHALL BE CUT FLUSH WITH EACH SURFACE. 1/2" LARGER IN DIAMETER THAN THE PASSING PIPE OR COVER. BUILT-IN AS WORK PROGRESSES. SLEEVES THROUGH JOISTS AND BEAMS SHALL BE OF GALVANIZED STEEL PIPE OTHER SLEEVES SHALL BE OF 16 GAUGE GALVANIZED IRON. MAKE SPACE BETWEEN FLOOR SLEEVES AND PASSING PIPES WATER TIGHT BY CAULKING WITH FIREPROOF PACKING AND PLASTIC WATERPROOF CAULKING COMPOUND.

D. ACCESS PANELS AND DOORS:

1. FURNISH TO GENERAL CONTRACTOR FOR INSTALLATION WHEREVER REQUIRED FOR ACCESS TO VALVES, AIR VENTS OR SIMILAR DEVICES. DOORS SHALL BE SUITABLE FOR WALL FINISH INVOLVED, 12" X 6" UNLESS OTHERWISE INDICATED. FIRE RATED WHERE FIRE WALLS ARE PENETRATED. HILCOR, PHILIP CAREY, ZURN OR OTHER APPROVED EQUAL.

2. WHERE DEVICE OCCURS ABOVE A LIFT-OUT ACOUSTICAL CEILING PANEL, IDENTIFY THE PANEL WITH A 3/4" X 1/8" ROUND HEAD SELF-THREADING SCREW, SCREWED INTO PANEL WITH ONLY THE HEAD SHOWING. BEFORE INSERTING, PAINT HEAD OF SCREW WITH APPROPRIATE COLOR AS SPECIFIED UNDER PIPE IDENTIFICATION AND COLOR CODING.

E. CUTTING AND PATCHING:

1. OPENINGS ARE TO BE LAID OUT AND BUILT-IN FURNISH DETAILED LAYOUT DRAWINGS TO OTHER TRADES IN ADVANCE OF THEIR WORK. PIPING WITHIN OR BEHIND WALLS MUST BE INSTALLED BEFORE WALL IS ERECTED. OTHERWISE WALLS, ETC. AFFECTED MUST BE REWORKED BY TRADE WHICH ERECTED SAME AT EXPENSE OF THE CONTRACTOR CHASING AND CUTTING OF NEW WORK WILL NOT BE ACCEPTED.

F. PAINTING AND FINISHING:

1. CLEAN AND PAINT WITH TWO COATS OF ENAMEL ALL EXPOSED FERROUS METAL PARTS OF MECHANICAL EQUIPMENT LOCATED IN MACHINERY ROOMS, ABOVE CEILINGS, ETC. (INCLUDE BLACK STEEL PIPE, UNCOATED CAST IRON PIPE, HANGERS, BRACKETS, ETC.).

G. CONNECTIONS FOR EQUIPMENT FURNISHED BY OTHERS:

1. THE PLUMBING CONTRACTOR SHALL PROVIDE FLOOR DRAINS REQUIRED FOR THIS EQUIPMENT AS SCHEDULED ON THE DRAWINGS.

2. ALL REQUIRED WATER SUPPLY LINES WILL BE EXTENDED TO WITHIN 2'-0" OF EQUIPMENT LOCATIONS AND TERMINATED WITH A GATE VALVE. FINAL CONNECTIONS TO EQUIPMENT WILL BE MADE BY THE PLUMBING CONTRACTOR AND COORDINATED WITH THE GENERAL CONTRACTOR AND OWNER.

114. MISCELLANEOUS REQUIREMENTS:

A. MATERIALS AND EQUIPMENT - NEW AND OF BEST QUALITY IN EVERY RESPECT. PIPE AND FITTINGS SHALL CONFORM TO THE ASTM STANDARD DESIGNATED FOR PIPE OF EACH MATERIAL. EQUIPMENT SHALL BE ESSENTIALLY THE STANDARD PRODUCT OF THE MANUFACTURER AND UL APPROVED WHERE COMMERCIALLY AVAILABLE. WHERE TWO OR MORE UNITS OF THE SAME CLASS OF EQUIPMENT ARE REQUIRED, THESE UNITS SHALL BE PRODUCTS OF A SINGLE MANUFACTURER HOWEVER, THE COMPONENT PARTS OF EACH UNIT NEED NOT BE.

B. WORKMANSHIP - FIRST CLASS AND IN ACCORDANCE WITH BEST PRACTICE. PIPE SHALL BE CUT CLEAN, PROPERLY REAMED, THREADED OR SOLDERED. ERECTED PLUMB AND SECURE. MAKE CHANGES IN PIPE SIZE WITH REDUCING FITTINGS WITHOUT THE USE OF BUSHINGS. WORK SHALL BE EXECUTED BY EXPERIENCED MECHANICS AND SHALL PRESENT A NEAT APPEARANCE. INSTALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

C. AT ALL STAGES OF INSTALLATION, PROTECT PIPE OPENINGS, FIXTURES AND EQUIPMENT AGAINST THE ENTRANCE OF FOREIGN MATERIALS, AND FRONT DAMAGE BY THE ELEMENTS, MORTAR, PAINT, ETC.

D. FACTORY FINISHES - MANUFACTURER'S STANDARD UNLESS OTHERWISE STATED. SUBMIT COLOR CARDS FOR SELECTION WHERE CHOICE EXISTS.

E. EXPANSION - PROVIDE FOR EXPANSION AND CONTRACTION OF ALL PIPING AND MAKE PROPER PROVISIONS SO THAT EXCESSIVE STRAIN WILL NOT OCCUR ON PIPING OR OTHER PARTS.

F. SAFETY PROVISIONS - PROVIDE COVERS OR GUARDS ON ALL HOT, MOVING AND PROJECTING ITEMS WHICH COULD BE A HAZARD TO OCCUPANTS OF THE BUILDING OR TO SERVICE PERSONNEL.

G. CLEANING AND ADJUSTING - UPON COMPLETION OF WORK, CLEAR ALL DRAINS, TRAPS, FIXTURES, DUCTS AND PIPES. ADJUST ALL VALVES, PACK STUFFING BOXES, REMOVE RUBBISH AND LEAVE WORK IN CLEAN AND OPERATING CONDITION.

H. ESCUTCHEONS - WHERE PIPES PASS THROUGH FLOORS, WALLS AND CEILINGS, PROVIDE PRESSED CHROME-PLATED BRASS OR STEEL PLATES SECURELY FASTENED IN PLACE.

PART 3- EXECUTION

31. SANITARY PIPING:
A. SCOPE - PROVIDE A SYSTEM OF SOIL, WASTE AND VENT PIPING CONNECTING ALL PLUMBING FIXTURES, EQUIPMENT, ETC., TO THE BUILDING DRAIN SYSTEM, WITH CONSOLIDATED VENT CONNECTIONS EXTENDING THROUGH THE BUILDING ROOF, ALL AS SHOWN ON THE DRAWINGS.

B. FREEZE PROTECT ALL EXPOSED SANITARY PIPING.

C. LAYING OUT WORK - VENTS FROM ANY FIXTURE, WHEN CONNECTED TO VENT LINE SERVING OTHER FIXTURES, SHALL BE EXECUTED AT LEAST SIX (6) INCHES ABOVE FLOOD LEVEL. RIM OF HIGHEST OF SUCH FIXTURES TO PREVENT USE OF VENT LINES AS A WASTE. MAKE CHANGES IN DIRECTION BY APPROPRIATE USE OF 45 DEGREE Y'S, 1/2" OR LONG SLEEVES 1/4, 1/6, 1/8 OR 1/16 BENDS. SANITARY T'S OR SHORT 1/4 BENDS MAY BE USED ON VERTICAL STACKS OR DRAINAGE LINES WHERE CHANGE IN DIRECTION OF FLOW IS FROM HORIZONTAL TO VERTICAL EXCEPT THAT LONG-TURN T'S SHALL BE USED WHEN TWO FIXTURES ARE INSTALLED BACK TO BACK WITH COMMON DRAIN. STRAIGHT T'S, ELLS AND CROSSSES MAY BE USED ON VENT LINES. MAKE NO CHANGE IN DIRECTION OF FLOW GREATER THAN 90 DEGREES. WHERE DIFFERENT SIZES OF DRAINAGE PIPES OR FITTINGS ARE CONNECTED, USE STANDARD INCREASERS AND REDUCERS OF PROPER SIZE. DO NOT REDUCE SIZE OF DRAINAGE PIPING IN DIRECTION OF FLOW. DRILLING AND TAPPING OF HOUSE DRAINS, SOIL, WASTE OR VENT PIPES, AND USE OF SADDLE HUBS AND BANDS ARE PROHIBITED.

D. DO NOT BEGIN WORK UNTIL ELEVATION OF FINAL CONNECTION POINT IS VERIFIED AND GRADING OF ENTIRE SYSTEM CAN BE DETERMINED.

E. HANGERS - SUPPORT PIPE ADJACENT TO EACH FITTING AND ON CENTERS NOT EXCEEDING FIVE FEET WITH HANGERS AS SPECIFIED HEREINAFTER. RIDGID-Y SUPPORT BASE OF VERTICAL RUNS WITH SOLID MASONRY OR CONCRETE.

F. IN ADDITION, PROVIDE ADEQUATE SWAY BRACING TO STABILIZE ALL COMPONENTS OF THE SYSTEM. PROVIDE SPECIAL SUPPORT FOR FIXTURE ARMS, GLOBET BENDS, ETC.

G. GRADING - UNIFORM AND NOT LESS THAN 1/8" PER FOOT FOR PIPE 4" AND OVER, AND NOT LESS THAN 1/4" PER FOOT FOR 2" AND 3" PIPING.

H. WASTE ARMS - PVC DUV OR IPS BRASS PIPE TYPICAL. IPS BRASS PIPE AT URINALS.

I. TEST FITTINGS - NOT SHOWN ON THE DRAWINGS; PROVIDE WHERE REQUIRED FOR PARTIAL TESTS.

J. PIPING TO BE CAST IRON OR PVC - DUV IN ACCORDANCE WITH FPC 2020 1TH EDITION.

33. WATER PIPING:

A. SCOPE - CONNECT TO UTILITIES AS SHOWN ON THE DRAWINGS AND COORDINATE WITH THE OWNER.

B. GENERAL WORKMANSHIP - CUT ACCURATELY TO MEASUREMENTS ESTABLISHED AT SITE AND WORK INTO PLACE WITHOUT SPRINGING OR FORCING. PROPERLY CLEARING ALL OPENINGS, FINISHED CEILING, ETC. ROUTE THROUGH PREVIOUSLY BUILT-IN SLEEVES AND AVOID EXCESSIVE CUTTING OR OTHER WEAKENING OF THE STRUCTURE. REAM ALL PIPE TO REMOVE BURRS. MAKE CHANGES IN DIRECTION AND SIZE WITH FITTINGS. CAP OR PLUG OPEN PIPE ENDS DURING INSTALLATION TO KEEP OUT FOREIGN MATERIAL. MAKE CONNECTIONS CAREFULLY TO INSURE UNRESTRICTED FLOW. ELIMINATE AIR POCKETS AND TO PERMIT COMPLETE DRAINAGE OF THE SYSTEMS. FREEZE PROTECT ALL EXPOSED WATER PIPING.

C. GRADING - GRADE PIPE UPWARD FROM SOURCE TO FACILITATE DRAINAGE AND AIR RELIEF. WHERE LOW POINTS ARE REQUIRED BECAUSE OF LONG RUNS OR WHERE SECTIONS MAY BE VALVED OFF, PROVIDE WITH 3/4" GLOBE VALVE AND HOSE NIPPLE FOR DRAINAGE AT LOW POINT. MAKE ALL CONNECTIONS TO RISERS AND FIXTURES FROM TOP OF MAINS.

D. NIPPLES - OF SAME MATERIAL AS PIPE IN WHICH THEY ARE INSTALLED. PROVIDE EXTRA STRONG WHEN UNTHREADED PORTION IS LESS THAN 1" LONG.

E. PIPING TO BE COPPER OR CPVC.

34. WATER PIPING SPECIALTIES:

A. UNIONS - 150 LB. RATED CAST BRASS GROUND-JOINT TYPE IN COPPER PIPE, GALVANIZED MALLEABLE IRON IN URROUGHT IRON OR GALVANIZED PIPE.

B. PROVIDE IN ALL SIZES OR THREADED PIPE, AND IN SWEAT JOINTED PIPE OVER 1" SO AS TO FACILITATE EASY REPAIRS. IN SUCH LINES INSTALL ADJACENT TO WATER HEATERS, PUMPS, TANKS, ETC., INTO WHICH PIPING IS TERMINATED AND ON AT LEAST ONE SIDE OF VALVES, COCKS, STRAINERS, ETC., AND OTHER DEVICES WHICH OCCUR IN PIPING RUNS.

C. PROVIDE DIELECTRIC UNIONS BETWEEN FERROUS AND NON-FERROUS PIPING (INCLUDING PIPING AND WATER HEATER STUDS WHERE DIFFERENT).

D. VALVES - PROVIDE WHERE SHOWN AND/OR SPECIFIED, INCLUDING ALL FIXTURES OR EQUIPMENT NOT FURNISHED WITH STOPS. ALL VALVES OF EACH TYPE SHALL BE THE PRODUCT OF ONE MANUFACTURER. STOCKHAM UNITS AS INDICATED BELOW OR EQUALS BY CRANE OR WALTHAM. ALL VALVES SHALL BE RATED 200 LB. WUP.

E. BALL VALVES 2" AND SMALLER - 5-201 BR CAST BRONZE FOR THREADED PIPE.

F. SHOCK ABSORBERS - CERTIFIED BY PLUMBING AND DRAINAGE INSTITUTE. STANDARD PDI-UH201. PROVIDE WHERE INDICATED.

G. WALL HYDRANTS (TYPICAL) - SEE FIXTURE SCHEDULE. FURNISH VACUUM BREAKER ON EACH HYDRANT.

H. YARD HYDRANTS (TYPICAL) - NON-FREEZE 3/4" CHROMIUM PLATED BRONZE HOSE BIBB WITH LOOSE KEY, WADE U-8620 WITH INTEGRAL BACKFLOW PREVENTER OR APPROVED EQUAL. FURNISH VACUUM BREAKER ON EACH HYDRANT. INSTALL FLUSH WITH FINISH GRADE. SEE DRAWINGS FOR LOCATION.

I. PRESSURE REDUCING VALVES - WATTS/MUESCO SERIES 1 IS AS SIZED ON DRAWING, FURNISH WITH WATTS NO. 119 OR THE "Y" TYPE STRAINER, CRANE OR STOCKHAM.

J. THERMOMETERS - "ANY ANGLE" TYPE WITH 9 INCH SCALE AND SUITABLE TEMPERATURE RANGE, AS MANUFACTURED BY TRERICE TYPE BX. THERMOMETERS SHALL BE MERCURY ACTUATED WITH PHENOL CONDENSATE WITH ALUMINUM OR BRASS CASES AND 6" SOCKET WITH EXTENSION NECK. LOCATE SO AS TO BE CONVENIENT FOR READING. EQUAL PRODUCT BY WESKLER, MARSH OR MAXWELL MOORE WILL BE ACCEPTED.

K. PRESSURE GAGES - BOURDON TUBE TYPE, AS MANUFACTURED BY TRERICE NO. 600 COMPLETE WITH CAST ALUMINUM CASE, NO. 812 VIBRATION OR PULSATION NUMBER AND NO. 135 NEEDLE VALVE. GAGE DIALS SHALL BE NOT LESS THAN 4-1/2" AND CASES SHALL BE OF ALUMINUM ALLOY. FURNISH WITH SUITABLE PRESSURE RANGES FOR EACH APPLICATION. EQUAL PRODUCTS BY WESKLER, MARSH OR ASHCROFT WILL BE ACCEPTED.

L. VACUUM BREAKER - WATTS NO. 36A, CRANE OR STOCKHAM.

M. O.M.T.
35. PIPE HANGERS AND SUPPORTS: PER FT FO

A. SPACING - INSTALL SUPPORTS AS REQUIRED TO PREVENT SAGS, BENDS OR VIBRATION IN ANY CASE PROVIDE WITHIN SIX INCHES OF ELBOWS AND VALVES, AT ENDS OF BRANCHES OVER FIVE FEET, AND ON CENTERS NOT EXCEEDING THE FOLLOWING:

- 1. COPPER TUBING - UP TO 1", 6 FEET. OVER 1", 8 FEET
- 2. STEEL PIPE - UP TO 1-1/4", 8 FEET; 1-1/2" AND 2", 10 FEET; 2" THROUGH 3-1/2", 12 FEET; OVER 3-1/2", 16 FEET
- 3. CAST IRON PIPE - REFER TO SANITARY PIPING

B. EQUAL PRODUCTS - EQUIVALENT DEVICES BY GRINNELL, ELSEN, STOCKHAM OR CRANE WILL BE ACCEPTED.

C. HANGER RODS - OF MILD STEEL, THREADED AS REQUIRED. USE NOT SMALLER THAN 3/8" RODS FOR PIPE 2" AND UNDER; 1/2" RODS FOR PIPES 2-1/2" THROUGH 6". BUT GENERALLY AS STANDARD FOR THE HANGER SELECTED. SUPPORT RODS WITH THREADED INSERTS, EXPANSION SHIELDS OR BEAM CLAMPS.

D. AT TYPICAL SUSPENDED HORIZONTAL PIPE - ADJUSTABLE CLEVIS OR SPLIT-RING TYPE, EQUAL TO FEE 4 MASON 239 OR 215.

E. WHERE IN CONTACT WITH COPPER PIPE - SAME AS ABOVE EXCEPT HANGERS COPPER PLATED.

F. VERTICAL PIPING ALONG WALL - FEE 4 MASON #41 RISER CLAMPS AT FLOORS AND #36E STAND-OFF BRACKETS TOGGLE BOLTED TO WALL. PLACE UNDER HUBS OR COUPLINGS WHERE AT ALL POSSIBLE. GRINNELL OR WATTS.

G. ON INSULATED LINES - SIZE HANGER LOOPS TO FIT OVER INSULATION, AND PROVIDE 12" LONG, 22 GAUGE GALVANIZED SHEET METAL, HALF-ROUND SADDLES TO PROTECT INSULATION.

H. SUPPORTS FOR WATER SUPPLY PIPING IN SPACES BEHIND PLUMBING FIXTURES - ABS BRACKETS AND U-BOLTS. SECURE THE TWO-PIECE BRACKETS TO CAST IRON STACKS. U-BOLTS SHALL BE SIZED TO BEAR ON THE PIPE. BRACKETS SHALL BE F 4 M BRACKET CO. OR EQUAL.

I. AT HORIZONTAL PIPING ALONG WALL - FEE 4 MASON #46 I-HOOKS.

31. FIXTURE SUPPORTS AND CONNECTIONS:

A. GENERAL - ALL FIXTURES INCLUDING LAVATORIES, URINALS, WATER CLOSETS, ELECTRIC WATER COOLERS, ETC., MUST BE SECURELY FASTENED TO THE WALLS OR FLOOR.

B. WALL MOUNTED FIXTURES - SUPPORT ALL WALL MOUNTED FIXTURES WITH 3/16" THICK X 3-1/2" HIGH PLATES FULL LENGTH OF FIXTURE, MOUNTED BEHIND WALL. WHERE FIXTURES ARE BACK TO BACK ON A SOLID WALL, MOUNT WITH BOLTS FROM FIXTURE HANGER TO FIXTURE HANGER. DO NOT USE TOGGLE BOLTS OR EXPANSION BOLTS EXCEPT AS NOTED. WHERE FIXTURES ARE MOUNTED ON SOLID WALLS FINISHED BOTH SIDES, INSTALL FIXTURE WITH PLATED TOGGLE BOLTS. WHERE FIXTURES ARE MOUNTED ON UNWELED STUDS, EMPLOY 3/16" STEEL HANGER PLATES PLACED ON WALL BEFORE LATHING. PLATES SHALL BE 16" X 8" MINIMUM SIZE, AND SHALL HAVE WELDED ON BOLT STUDS. WHERE FIXTURES ARE MOUNTED ON WOOD OR LIGHT GAUGE STEEL STUDS, EMPLOY PRESSURE TREATED BLOCKING OF 2 X 10 NOMINAL SIZE WELL SECURED INTO STUD LINE WITH NON-CORROSIVE FASTENERS. FIT BEHIND STUD FLANGES, USING ESPECIALLY PLACED STUDS AS REQUIRED.

C. FLOOR CONNECTIONS - PROVIDE FLOOR FLANGES, SCREWED OR CAULKED TO DRAINAGE PIPE, BOLT THE CONNECTION AND MAKE TIGHT TO FIXTURE WITH SETTING RING OR POLYETHYLENE GASKET FLANGE.

D. WASTE ARMS TO FIXTURES - AS SPECIFIED HEREIN BEFORE. WHERE COPPER OR BRASS PIPE IS SPECIFIED, ALL JOINTS DOWNSTREAM FROM TRAP SHALL HAVE SOLDERED JOINTS.

E. STERILIZATION - THE COMPLETED SUPPLY LINE SHALL BE STERILIZED AS REQUIRED BY STATE LAW BEFORE ACCEPTANCE FOR DOMESTIC OPERATION.

NOTES

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OAKRIDGE
ELEMENTARY
SCHOOL
RESTROOM
RENOVATIONS

19700 Drawn By: RPW
Project Code Checked By: RPW

31 DEC 2024

Date

CONTRACT
DOCUMENTS

Revisions

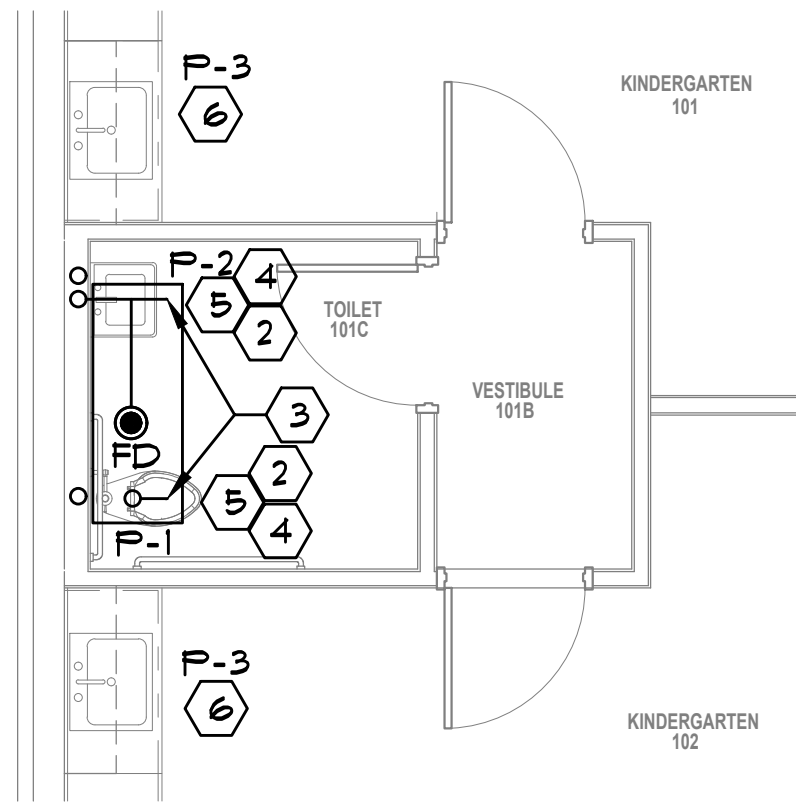
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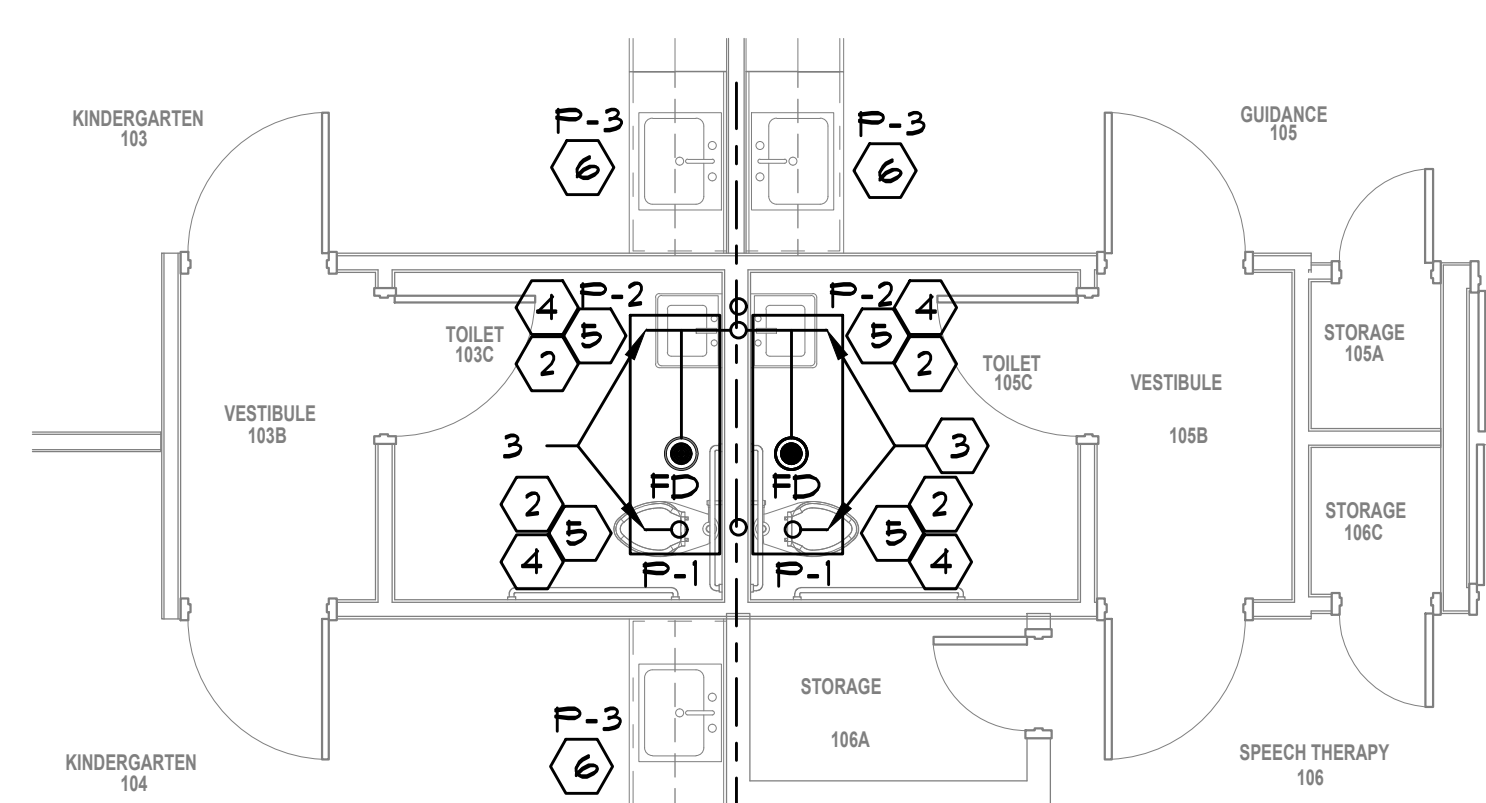
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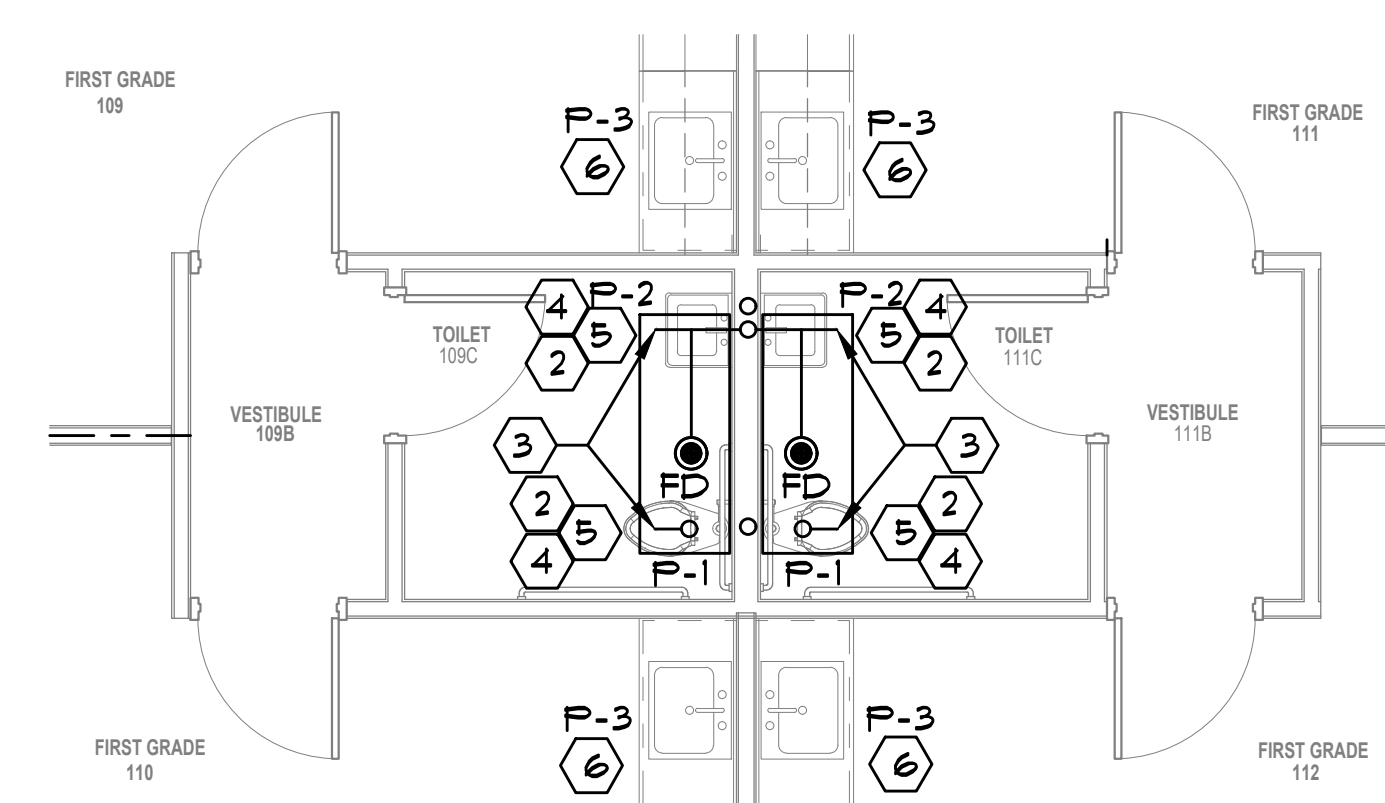
PLUMBING PLAN
 TOILET 101C

SCALE: 1/4" = 1'0"



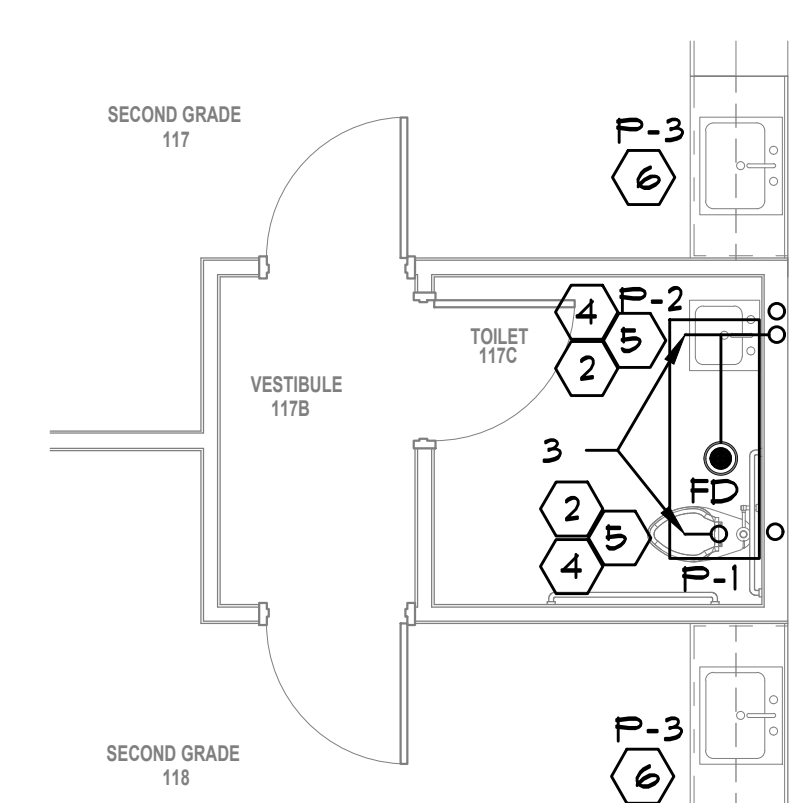
PLUMBING PLAN
 TOILET 103C 105C

SCALE: 1/4" = 1'0"



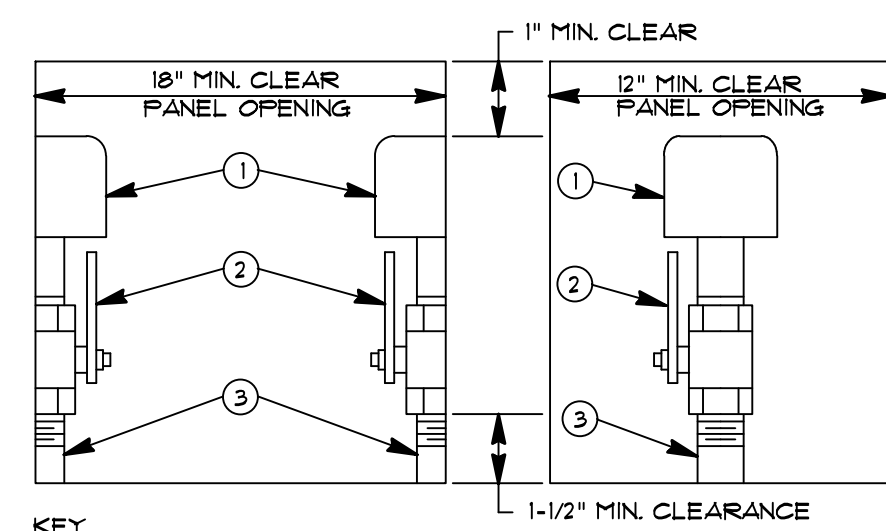
PLUMBING PLAN
 TOILET 103C 111C

SCALE: 1/4" = 1'0"



PLUMBING PLAN
 TOILET 117C

SCALE: 1/4" = 1'0"

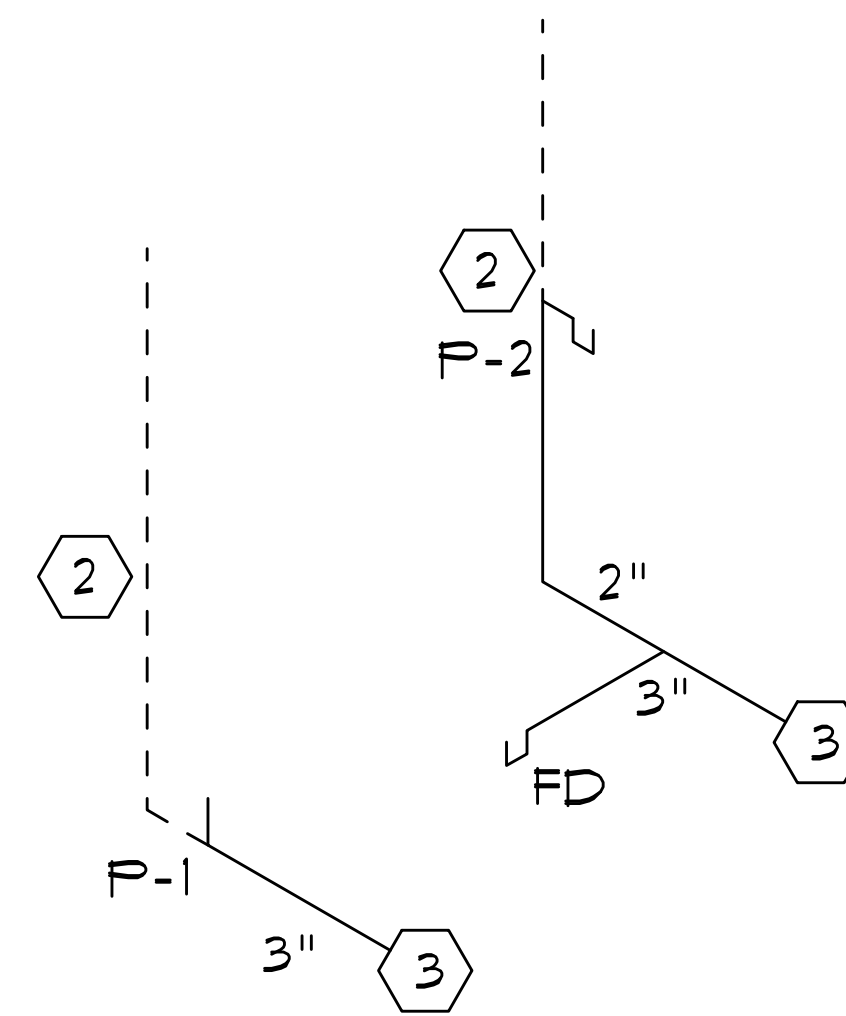


KEY

- ① WATER HAMMER ARRESTOR
- ② BALL VALVE, SAME NOMINAL SIZE AS PIPE BRANCH IN CHASE. OPENING IN BALL VALVE TO MATCH PIPE ID.
- ③ PIPE SAME SIZE AS BRANCH IN CHASE TO WHICH IT IS ATTACHED.

NOTE: PROVIDE REDUCER IF REQUIRED BETWEEN VALVE AND WATER HAMMER ARRESTOR.

TYPICAL WATER HAMMER PANEL INSTALLATION
 SINGLE AND DOUBLE APPLICATION
 N.T.S.



PLUMBING PLAN
 RISER TYP

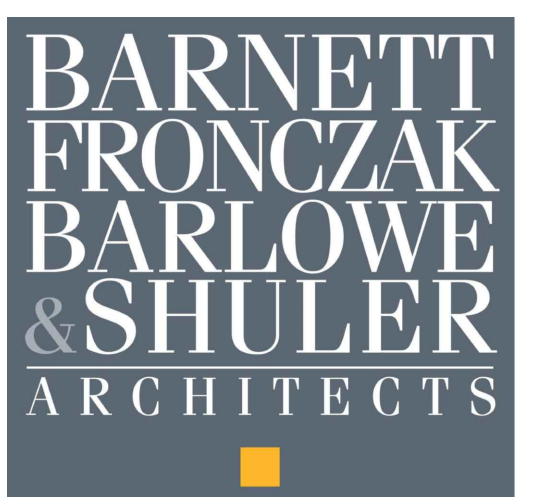
SCALE: N.T.S.

KEYNOTES:

- ① SAW CUT SLAB IN THIS AREA, DEMO OLD PIPING, RECONNECT AS SHOWN WITH NEW.
- ② REUSE EXISTING VENT FOR FIXTURE.
- ③ CONNECT TO EXISTING PIPING UNDER SLAB. FIELD VERIFY EXACT LOCATION AND ROUTING.
- ④ CONNECT TO EXISTING DOMESTIC WATER LINES, FIELD VERIFY EXACT LOCATION AND ROUTING.
- ⑤ PROVIDE NEW 14X14 ACCESS PANEL.
- ⑥ PROVIDE NEW SINK, TRAP, WATER LINES. CONNECT TO EXISTING.
- ⑦ PROVIDE WATER HAMMER REFER TO DETAIL.

PLUMBING FIXTURE SCHEDULE

FIXTURE NO.	FIXTURE	DESCRIPTION	C.W.	H.W.	FCW	FHW	BFP TYPE/ MODEL	WASTE	VENT	TRAP	MOUNTING	RIM HEIGHT	SUPPLY BY	INSTALL BY
P-1	FLUSH VALVE WATER CLOSET	KOHLER K-96053-0 FLOOR MOUNT TOP SPUD FLUSH VALVE WATER CLOSET. SLAON REGAL 111XL 1.6 GPF.	1"					3"					P.C.	P.C.
P-2	ADA WALL HUNG SINK	KOHLER K-2007-0 WALL HUNG LAV WITH A MOEN 8884 LAV FAUCET FINISH BY OWNER PROVIDE WALL HANGER KOHLER K-2032 PROVIDE AND INSTALL UNIVERSAL THERMOSTATIC MIXING VALVE SET AT 110 DEGREE F OR PER LOCAL CODE.	1/2"	1/2"				2"			WALL WITH HANGER		PC	P.C.
P-3	CLASSROOM SINK	ELKAY LUSTERTONE CLASSIC STAINLESS STEEL 19" X 18" X 7-5/8" SINGLE BOWL DROP-IN SINK MODEL(S) LR1918, WITH T&S BRASS B-0892-01 FAUCET SINK TO COME WITH CHROME SUPPLIES STOPS AND P-TRAP.	1/2"	1/2"				1 1/2"			DROP IN		PC	P.C.
FD	FLOOR DRAIN	ZURN 4" FLOOR DRAIN WITH STRAINER AND TRAP PRIMER. PROVIDE TRAP PRIMER FROM WATER SERVING RESTROOM SINK.						3"			FLOOR		PC	EXTG
HA	WATER HAMMER ARRESTOR	SIoux CHIEF MINIRESTER, COPPER, 250 PSI WORKING PRESSURE NSF LISTED	3/4"	3/4"							PIPE		PC	P.C.
TP	TRAP PRIMER	LEAD FREE PRIME PRO PRO1-500 TRAP PRIMER OR EQUAL. INCORPORATE A BUILT IN VACUUM BREAKER AND INTERNAL BACKFLOW.	1/2"										P.C.	P.C.
FCO	FLOOR CLEAN OUT	PROVIDE IF/AS REQUIRED: J. R. SMITH FIG. 4151 C.I. CLEANOUT WITH GASKET SEAL THREADED PLUG FOR EASY REMOVAL. ADJUSTABLE ROUND NICKEL BRONZE TOP RECESSED FOR TILE WITH SECURING SCREW. SPEEDI-SET OUTLET CONNECTION. CLEANOUTS MUST BE ACCESSIBLE FROM THE SPACE.						3"			FLOOR		P.C.	P.C.
WCO	WALL CLEAN OUT	PROVIDE IF/AS REQUIRED: J. R. SMITH FIG. 4151 C.I. CLEANOUT WITH GASKET SEAL THREADED PLUG FOR EASY REMOVAL. ADJUSTABLE ROUND NICKEL BRONZE TOP RECESSED FOR TILE WITH SECURING SCREW. SPEEDI-SET OUTLET CONNECTION. CLEANOUTS MUST BE ACCESSIBLE FROM THE SPACE.						3"			WALL		P.C.	P.C.



OAKRIDGE
 ELEMENTARY
 SCHOOL
 RESTROOM
 RENOVATIONS

19700 Drawn By: RPW

Project Code Checked By: RPW

31 DEC 2024

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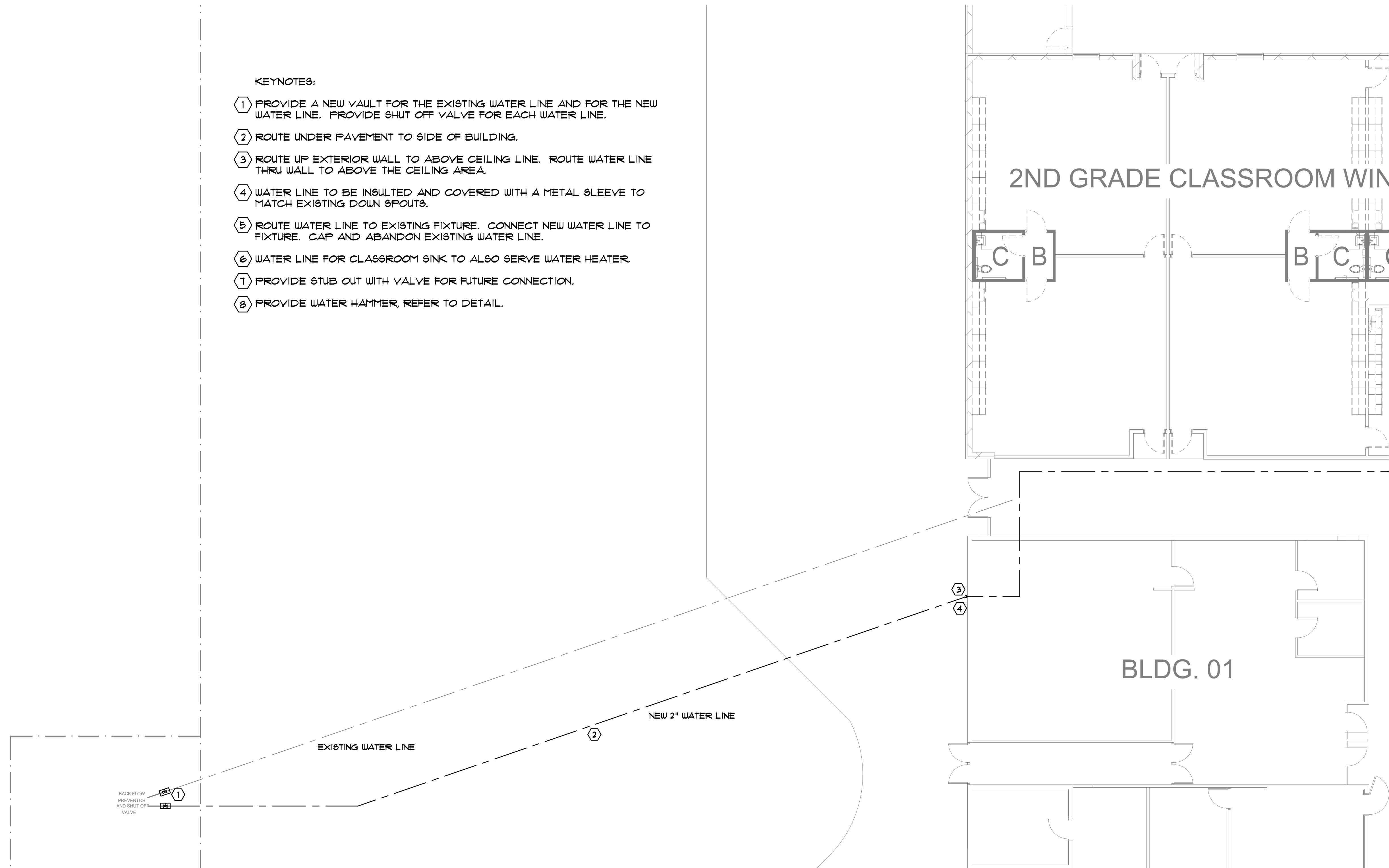
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- KEYNOTES:
- ① PROVIDE A NEW VAULT FOR THE EXISTING WATER LINE AND FOR THE NEW WATER LINE. PROVIDE SHUT OFF VALVE FOR EACH WATER LINE.
 - ② ROUTE UNDER PAVEMENT TO SIDE OF BUILDING.
 - ③ ROUTE UP EXTERIOR WALL TO ABOVE CEILING LINE. ROUTE WATER LINE THRU WALL TO ABOVE THE CEILING AREA.
 - ④ WATER LINE TO BE INSULATED AND COVERED WITH A METAL SLEEVE TO MATCH EXISTING DOWN SPOUTS.
 - ⑤ ROUTE WATER LINE TO EXISTING FIXTURE. CONNECT NEW WATER LINE TO FIXTURE. CAP AND ABANDON EXISTING WATER LINE.
 - ⑥ WATER LINE FOR CLASSROOM SINK TO ALSO SERVE WATER HEATER.
 - ⑦ PROVIDE STUB OUT WITH VALVE FOR FUTURE CONNECTION.
 - ⑧ PROVIDE WATER HAMMER, REFER TO DETAIL.



PLUMBING SITE PLAN
 SCALE: 1/8" = 1'0"



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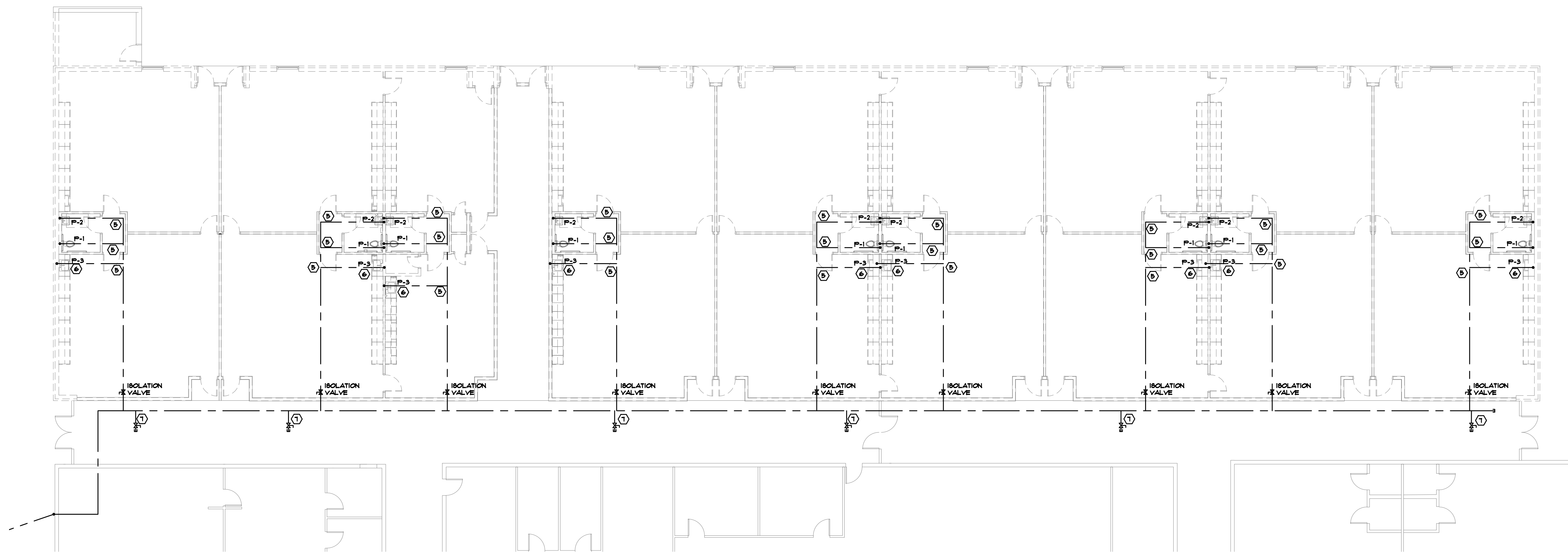
PLUMBING
 SITE

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P3.0

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DOMESTIC WATER PLAN

SCALE: 3/32" = 1'0"

PLUMBING SPECIFICATIONS

1. URINALS TO BE PIPED ON INDIVIDUAL STACKS WITH CLEAN OUTS INSTALLED ABOVE WASTE ARM.
2. ALL WASTE AND VENT PIPING SHALL BE SCHEDULE 40 PVC
3. WASTE PIPING: DOUBLE COMBINATIONS, DOUBLE UYES OR SANITARY CROSSES ARE NOT TO BE USED IN SANITARY PIPING.
4. ACID WASTE PIPING: CPVC PIPE AND FITTINGS "SOLVENT WELD".
5. 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 PER CENT 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.
6. INTERIOR WATER PIPING SHALL BE TYPE L COPPER, ALL FITTINGS SHALL BE PRO PRESS AND NO SOLDERED FITTINGS ARE NOT PERMITTED.
7. 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.
8. SERVICE VALVE FOR BUILDINGS SHALL BE INSTALLED WITHIN 4 FEET OF WATER MAIN.
9. ON NEW INSTALLATION OF WATER MAINS AN ISOLATION VALVE SHALL BE INSTALLED MID POINT OF MAIN PIPING.
10. NO WALL HYDRANTS TO BE USED.
11. BALL VALVES TO BE USED ON INTERIOR PIPING.
12. WATER MAINS AND WATER SERVICES USE MECHANICAL GATE VALVES MUELLER OR EQUAL.
13. 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: PFP PRO I-UL-P-500.
14. 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.
15. MULTI STATION LAVATORY UNITS TO BE INSTALLED IN GANG RESTROOMS IF BUDGET ALLOWS.
16. CLASSROOM SINKS SHALL BE ONE PIECE TOP WITH SINK MOLDED IN TOP.
17. 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.
18. CARRIERS FOR LAVATORIES AND URINALS ARE NOT TO BE USED.
19. WATER SERVICES TO ENTER BUILDINGS AT CLOSEST PROXIMITY TO WATER MAIN.
20. BUILDING SEWERS TO BE PIPED DIRECTLY TO MAN HOLE WHEN FEASIBLE.
21. LOMIT.
22. NO OFFSET FLANGES TO BE USED ON TOILETS.
23. NO SPANNER FLANGES TO BE USED ON TOILETS.
24. NO FERNCO COUPLINGS TO BE USED ON SINK WASTE.
25. NO SLIP JOINT 45° IS PERMITTED UNDER SINK.
26. NO INVERTED TRAPS WILL BE ALLOWED.
27. GROUT THE BASE OF ALL TOILETS.
28. NO TAMPER PROOF SCREWS ON WATER COOLERS.
29. NO KEYLESS STOPS TO BE USED ON FIXTURES.
30. SINK WASTE UNDER CLASSROOM SINKS TO BE PVC TUBULAR.
31. NO 128 TOILETS TO BE USED.

STREAMLINE OR PRO PRESS ALLOWED FOR OVERHEAD COPPER.

IPS - PVC PRESSURE PIPE ALLOWED FOR UNDERGROUND DOMESTIC WATER IF SIZING NOT AVAILABLE FOR C-900.

KEYNOTES:

- 1 PROVIDE A NEW VAULT FOR THE EXISTING WATER LINE AND FOR THE NEW WATER LINE. PROVIDE SHUT OFF VALVE FOR EACH WATER LINE.
- 2 ROUTE UNDER PAVEMENT TO SIDE OF BUILDING.
- 3 ROUTE UP EXTERIOR WALL TO ABOVE CEILING LINE. ROUTE WATER LINE THRU WALL TO ABOVE THE CEILING AREA.
- 4 WATER LINE TO BE INSULATED AND COVERED WITH A METAL SLEEVE TO MATCH EXISTING DOWN SPOUTS.
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- 7 PROVIDE STUB OUT WITH VALVE FOR FUTURE CONNECTION.
- 8 PROVIDE WATER HAMMER, REFER TO DETAIL.



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PLUMBING
 WATER PLAN

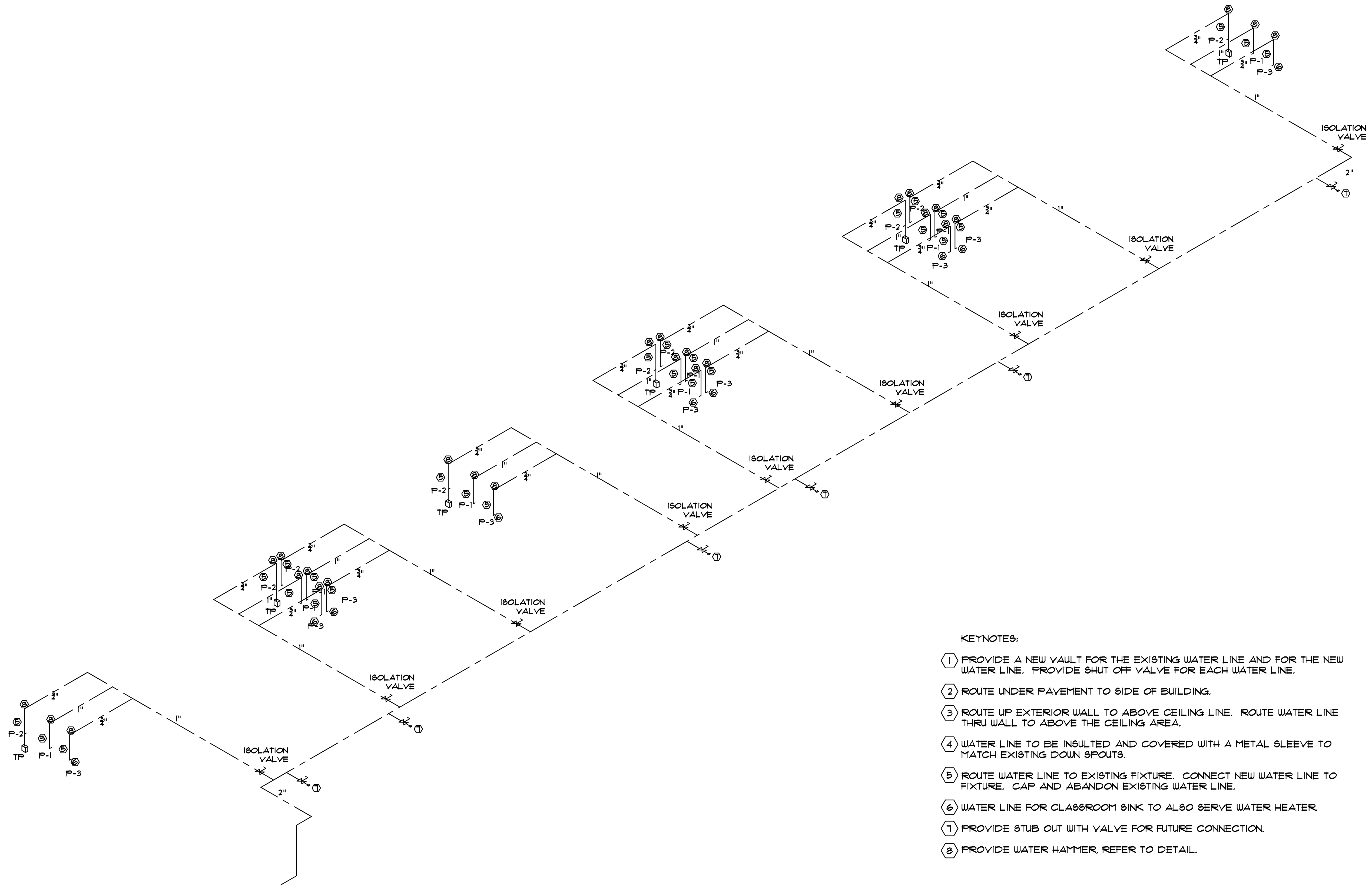
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DOMESTIC WATER RISER

SCALE: NTS

KEYNOTES:

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