PLUMBING SPECIFICATIONS

PART 1 - PLUMBING GENERAL REQUIREMENTS:

1.01 PLUMBING GENERAL SPECIFICATIONS:

- A. CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERATING SYSTEM, INCLUDING ALL REQUIRED ACCESSORIES. ALL SYSTEMS SHALL BE FULLY CLEANED, TESTED, BALANCED AND READY FOR OWNER OCCUPANCY, WITH COMPLETE CERTIFIED TESTING AND BALANCING REPORT. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL, FOR ALL EQUIPMENT INDICATED BY [S], CONTRACTOR SHALL PROVIDE OPERATION AND MAINTENANCE MANUALS FOR ALL EQUIPMENT MARKED WITH [O/M], BOUND IN A SINGLE BINDER, COMPLETE WITH INDEX, TO THE ENGINEER FOR REVIEW AND TRANSMITTAL TO THE
- B. THE COMPLETED PLUMBING INSTALLATION AND ALL MATERIALS AND EQUIPMENT SHALL CONFORM TO ALL LOCAL ORDINANCES, CODES, AND OTHER REGULATIONS OR THE DRAWINGS. IN THE EVENT OF CONFLICT BETWEEN THE CODES, STANDARDS, OR REGULATIONS AND INFORMATION CONTAINED IN THE CONTRACT DOCUMENTS, THE APPLICABLE CODE, STANDARDS, OR REGULATION SHALL TAKE PRECEDENCE.
- C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION AND PROPER RELATION OF THE PLUMBING WORK TO THE WORK OF OTHER TRADES AND TO ACTUAL BUILDING CONDITIONS. NO ADDITIONAL COMPENSATION NOR EXTENSION OF COMPLETION TIME WILL BE GRANTED FOR EXTRA WORK CAUSED BY THE LACK OF COORDINATION. CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING BIDS TO VERIFY ALL CONDITIONS.
- D. ALL CUTTING AND PATCHING FOR THE INSTALLATION OF NEW WORK IN EXISTING BUILDING SHALL BE DONE BY THE CONTRACTOR INSTALLING THE WORK. PATCHING SHALL BE DONE BY SKILLED TRADESMEN AND FINISH SHALL MATCH ADJACENT AREAS.
- E. EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS TO CONFORM WITH THE DETAILS AND APPLICATION INDICATED.
- F. PROVIDE NECESSARY SUPPORTS FOR ALL EQUIPMENT AND APPURTENANCES AS REQUIRED.
- G. DEMOLITION: REMOVE ALL EQUIPMENT, PIPING AND FIXTURES AS INDICATED ON THE DRAWINGS AND AS REQUIRED. DRAWINGS AND AS REQUIRED DURING DEMOLITION AND ARE NOT INTENDED TO BE ALL INCLUSIVE. ANY ADDITIONAL EQUIPMENT AND/OR PIPING DISCOVERED DURING DEMOLITION AND NOT REUSED SHALL BE REMOVED. ALL PIPES REMAINING AFTER DEMOLITION SHALL BE CAPPED. THE OWNER SHALL SELECT AND RETAIN EQUIPMENT AND MATERIALS TO BE REMOVED AND NOT REUSED. ALL OTHER EQUIPMENT AND MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROMPTLY REMOVED FROM THE PREMISES. DEMOLITION SHALL NOT PROCEED UNTIL THE WORK SCHEDULE IS APPROVED BY THE OWNER.
- H. ASBESTOS: CONTRACTOR SHALL REVIEW THE OWNER'S ASBESTOS MANAGEMENT PLAN TO ENSURE SUSPECTED ASBESTOS CONTAINING MATERIALS ARE UNDER SURVEILLANCE.
- I. DISCOVERY: IF DURING THE CONSTRUCTION OF THIS PROJECT, WORK INVOLVING FRIABLE ASBESTOS IS SUSPECTED, OR ENCOUNTERED, ALL WORK IN THIS AREA SHALL BE DISCONTINUED AND THE OWNER OR THE OWNER OWNER OR THE OWNER FORCES OR BY SEPARATE CONTRACT SHALL BE RESPONSIBLE FOR COMPLETE INVESTIGATION, REMOVAL, AND DISPOSITION OF THE FRIABLE ASBESTOS HAZARD IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS.

PART 2 - PRODUCTS:

2.01 WATER PIPE; FITTINGS AND VALVES:

A. ABOVE GROUND PIPING: TYPE "L" HARD TEMPER COPPER PIPE CONFORMING TO ASTM B88. CAST OR WROUGHT COPPER SOLDER FITTINGS CONFORMING TO ASME B16.18 OR ASME B16.22.

B. VALVES FOR USE WITH COPPER PIPE [SJ:

- 1. CUTOFF VALVES: BRONZE BODY BALL VALVE, CHROMIUM PLATED BALL, THREADED OR SOLDER ENDS, LEVER HANDLE, RATED FOR 600 PSI WOG, APOLLO 70-100/200, MILWAUKEE BA100/BA150, NIBCO T-S-585-70 OR ACCEPTED EQUAL.
- 2. CUTOFF AND DRAIN VALVES: BRONZE BODY BALL VALVE, CHROMIUM PLATED BALL, THREADED ENDS, DRAIN WITH CAP, RATED FOR 400 PSI WOG, APOLLO 95-100, HAMMOND 8701, WATTS B-6300, SERIES OR ACCEPTED EQUAL. CUTOFF VALVES AS LISTED ABOVE USED WITH A SEPARATE 3/8" VALVE INSTALLED
- IN LINE AS THE DRAIN VALVE MAY BE USED IN LIEU OF THE VALVE WITH DRAIN PLUG. 3. CHECK VALVES: BRONZE, "Y" PATTERN SWING CHECK, BRONZE DISC AND SEAT, THREADED OR SOLDER ENDS, RATED FOR 200 PSI WOG, NIBCO 413, STOCKHAM B-321, MILWAUKEE 507, OR ACCEPTED EQUAL.

2.02 FIXTURES AND EQUIPMENT[S](O/M]:

- A. GENERAL: PROVIDE AND INSTALL ALL FIXTURES AS INDICATED ON DRAWINGS AND HEREIN SPECIFIED WITH ALL SUPPLIES, WASTE AND VENT CONNECTIONS, ALL FITTINGS, ALL NECESSARY SUPPORTS, FAUCETS, VALVES AND TRAPS. FURNISH INDIVIDUAL STOPS ON SUPPLY PIPES OF ALL FIXTURES EXCEPT FOR SUPPLY PIPES TO FLUSH VALVES WITH INTEGRAL STOPS.
- B. ELECTRIC WATER HEATER: RHEEM MODEL ELD80-TB OR ACCEPTED EQUAL BY OTHERS, ELECTRIC WATER HEATER, 6050 WATTS UPPER AND LOWER ELEMENT, NON-SIMULTANEOUS, THREE PHASE, 480-V, 80 GALLON PORCELAIN COATED TANK, 49 GALLON RECOVERY AT 100F RISE. SHALL BE COMPLETE WITH INTEGRAL DRAIN PAN SHELF, T&P RELIEF VALVE, IN-LINE, EXPANSION TANK HAVING A TOTAL VOLUME OF 10.3 GALLONS FOR SYSTEM. AND B&G SERIES 100, CIRCULATING PUMP.

2.03 STERILIZING, FLUSHING AND TESTING:

- A. TESTING OF PIPING SYSTEMS SHALL BE IN ACCORDANCE WITH THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE AND THE INTERNATIONAL PLUMBING CODE SECTION 610.
- B. NEW PIPING SHALL BE STERILIZED, FLUSHED AND TESTED PRIOR TO CONNECTING TO EXISTING PIPING. REV. DATE:
- C. DOMESTIC WATER PIPING: STERILIZE WITH CHLORINE, 50 PARTS PER MILLION, FOR A 24-HOUR PERIOD. AFTER WHICH THE SYSTEM SHALL BE FLUSHED BEFORE BEING PUT INTO SERVICE.
- D. FLUSHING OF PIPING: FLUSH ALL PIPING TO REMOVE SEDIMENT, PIPE SCALE, ETC., FROM WATER LINES.
- 2.04 IDENTIFICATION:
- A. ALL PIPING AND EQUIPMENT SHALL BE IDENTIFIED WITH 1" HIGH STENCILED LETTERS. PIPING SHALL HAVE FLOW DIRECTION ARROWS.

2.05 PIPE INSULATION:

A. ALL WATER PIPE SHALL BE INSULATED WITH FINE HEAVY DENSITY FIBROUS GLASS INSULATION WITH FOIL-SCRIM-WHITE KRAFT PAPER VAPOR BARRIER JACKET MOLDED TO CONFORM TO PIPING OR DRAIN, 0.25 BTU/IN SQ. FT./F/I-IR MAXIMUM 'K' VALUE AT 75F. ALL INSULATING MATERIALS SHALL HAVE A COMPOSITE FLAME SPREAD RATING NOT EXCEEDING 25, AND A SMOKE DEVELOPED RATING NOT EXCEEDING 50 AS TESTED UNDER PROCEDURE ASTM D-84-75, NFPA 255 AND UL 723. ALL INSULATION SHALL BE 1" THICK. INSULATION EXPOSED TO WEATHER SHALL HAVE MINIMUM 0.032 ALUMINUM JACKET WITH

PART 3 - EXECUTION

3.01 PIPING WORK IN GENERAL:

A. CUT PIPE ACCURATELY TO MEASUREMENT ESTABLISHED AT PROJECT. PROVIDE PLUGS AND CAPS AS INDICATED AND WHERE NECESSARY. PROVIDE PROPERLY FOR EXPANSION, CONTRACTION AND DRAINAGE IN ALL PIPING.

3.02 PIPE JOINTS AND CONNECTIONS:

- A. SCREW JOINTS: REAM PIPES AFTER CUTTING AND THREADING, FREE FROM FINS AND BURRS. JOINTS SHALL BE MADE WITH COMPOUND OR TEFLON TAPE APPLIED TO MALE THREADS ON PIPES MOPPED WITH COMPOUND OR COVERED WITH TAPE TO PREVENT RUST. FULL CUT THREADS, NOT MORE THAN 3 EXPOSED THREADS AFTER JOINT MADE UPTIGHT.
- B. COPPER PIPE JOINTS: ALL SWEAT COPPER FITTINGS FOR WATER, SANITARY, WASTE AND VENT PIPING SHALL BE BRAZED IN ACCORDANCE WITH THE COPPER DEVELOPMENT ASSOCIATION COPPER TUBE HANDBOOK USING BCUP SERIES FILLER MATERIAL. REFER HEREINAFTER TO SPECIAL PIPING SYSTEMS FOR SPECIFIC SOLDER REQUIREMENTS.
- C. UNIONS: IN SCREWED PIPE, 2" AND SMALLER, TO BE GROUND JOINT WITH BRASS SEAT: FLANGED UNIONS FOR PIPES LARGER THAN 2".

3.03 HANGERS AND SUPPORTS:

- A. HORIZONTAL PIPING: SUPPORT ALL PIPING WITHOUT STRAIN OR SAGGING. HANGERS SHALL BE PIPE RING, SPLIT PIPE CLAMP, OR CLEVIS TYPE, WITH MEANS FOR ADJUSTING LENGTH OF HANGER ROD. HANGERS SHALL BE SUPPORTED FROM BEAM CLAMPS, INSERTS OR APPROVED SOCKETS INSERTED IN SLAB CONSTRUCTION. PIPE HANGER RODS SHALL BE ATTACHED TO THE TOP CHORD ONLY ON STEEL JOISTS AND BEAMS BY JOIST OR BEAM CLAMPS, WITHOUT WELDING. WELDING OF SUPPORT RODS WILL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE ENGINEER. WIRE, THIN STRAP, AND PERFORATED STRAP HANGERS WILL NOT BE ACCEPTABLE.
- B. VERTICAL PIPING: SUPPORT ALL RISERS AND STACKS AT EACH FLOOR WITH RISER CLAMPS, SUPPORT PIPING ON WALLS WITH RING OR SPLIT RING HANGERS WITH WALL FLANGE.
- C. COPPER PIPING: HANGERS AND SUPPORTS SHALL BE COPPER, BRASS, OR COPPER PLATED STEEL, OR COPPER PLATED MALLEABLE IRON.
- D. INSULATED PIPING: PROVIDE FACTORY FABRICATED SADDLES OR SHIELDS UNDER ALL HANGERS AND SUPPORTS PROVIDED FOR INSULATED WATER PIPING. SIZE SADDLES AND SHIELDS FOR EXACT FIT TO MATE WITH PIPE INSULATION. ALL OTHER INSULATED PIPES SHALL BE SUPPORTED DIRECTLY BY THE HANGER; NO SADDLE OR SHIELD REQUIRED.
- E. HANGER SPACING FOR COPPER PIPES: SPACE NOT OVER 6 FT. APART FOR 1-1/4" OR SMALLER PIPE, AND NOT OVER 10 FT. APART FOR PIPES 1-1/2" OR LARGER. LOCATE HANGERS AT POINTS WHERE PIPES CHANGE DIRECTION. INTERMEDIATE SUPPORTS SHALL BE PROVIDED ON EXPOSED VERTICAL PIPING TO PREVENT SWAYING OF PIPING.

3.04 INSTALLATION:

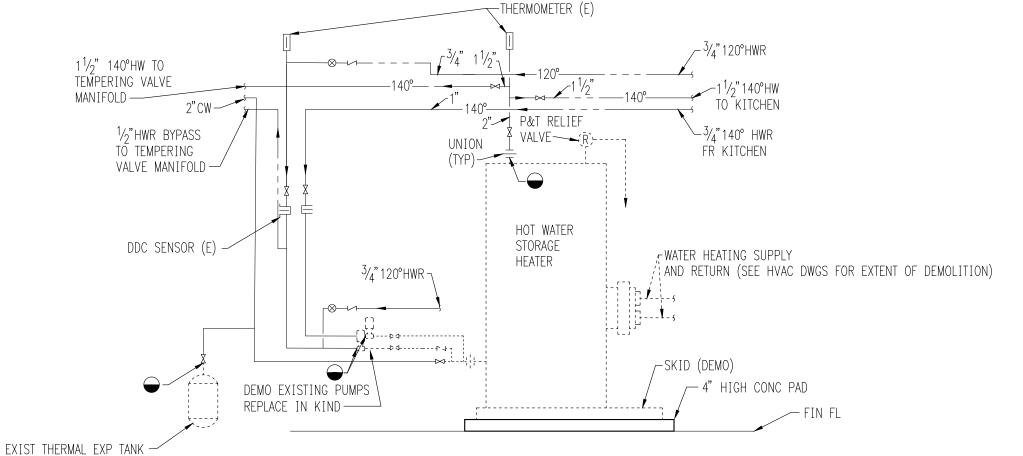
- A. GRADING OF DOMESTIC WATER PIPING: PIPING SHALL BE SO GRADED TO PERMIT DRAINAGE OF ALL PIPING AT COLD WATER SERVICE VALVES, AT FIXTURES OR OTHER DRAIN VALVES. DRAINAGE OF LOW POINTS SHALL BE ACCOMPLISHED BY EXTENDING 1/4" BRANCHES TO DRAIN VALVES WHERE INDICATED ON DRAWINGS OR WHERE REQUIRED ON THE JOB FOR COMPLETE DRAINAGE OF THE SYSTEMS.
- B. DIELECTRIC FITTINGS: AT ALL LOCATIONS WHERE DISSIMILAR METALS ARE JOINED, PROVIDE DIELECTRIC INSULATING CONNECTIONS ESPECIALLY BUILT TO PREVENT ELECTROLYSIS SUCH AS SPECIAL COUPLINGS, FITTINGS OR UNIONS.

TEMPERING VALVE MANIFOLD									
MARK	DESCRIPTION	BASIS OF DESIGN	ASSE NO.	INLET CONNECTION	OUTLET CONNECTION	MAX PRESSURE DROP, PSI	AT FLOW RATE, GPM	TEMPERATURE SETTING, F	
TVM-1	TEMPERING VALVE MANIFOLD	LEONARD TM-820B-LF	1017	1"	1 1/4"	50	89	120	

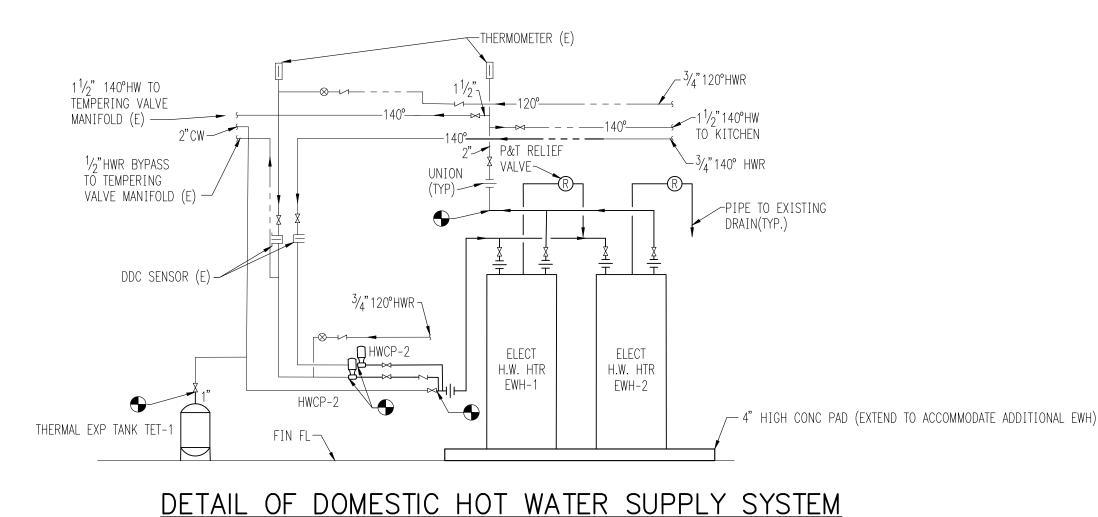
WATER HEATER SCHEDULE									
MARK	MARK KW CAPACITY, GAL. TEMPERATURE OUT HW CONNECTION CW CONNECTION VOLTAGE, V PHASE BASIS OF DESIGN								
EWH-1	12.1	80	140	3/4"	3/4"	480	3	RHEEM ELD80-TB	
EWH-2	12.1	80	140	3/4"	3/4"	480	3	RHEEM ELD80-TB	

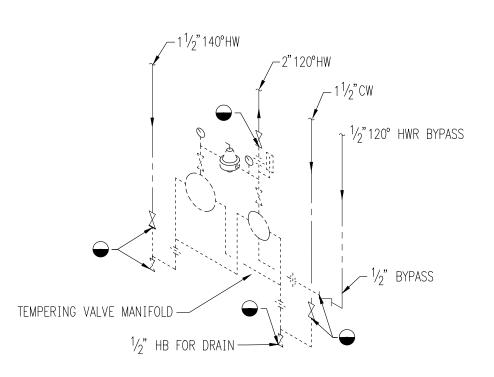
	HOT WATE	R RECIRC	PUMP	SCHEDULE
MARK	SYSTEM	MOTOR RPM	VOLTAGE, V	BASIS OF DESIGN
HWCP-1	120 HW LOOP	1725	115	B&G A-120H (REPLACE IN KIND)
HWCP-2	140 HW LOOP	1725	115	B&G A-120H (REPLACE IN KIND)

			DOMESTI	C WATER	THERMAL	EXPANS	SION TA	ANKS	
	MARK	MODEL	TANK TYPE	TANK VOLUME	MAX ACCEPTANCE	CONNECTION	PRECHARGED CAPACITY	STANDARD WORKING PRESSURE, PSIG	STANDARD OPERATING TEMP, F
l	TET-1	AMTROL ST-25V	DIAPHRAGM	10.3 GAL	10.3 GAL	1"	40	150	200

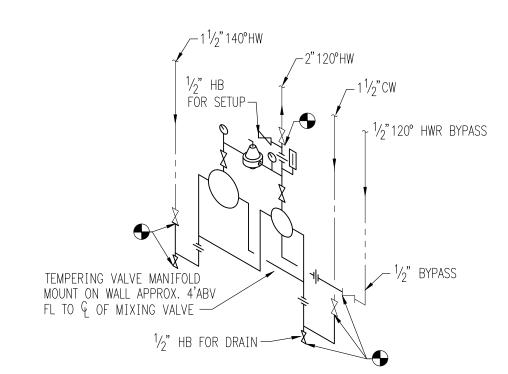


DETAIL OF DEMOLITION OF EXISTING DOMESTIC HOT WATER SUPPLY SYSTEM NO SCALE





TEMPERING VALVE MANIFOLD DEMOLITION DETAIL



TEMPERING VALVE MANIFOLD DETAIL

NOTE: PIPING INSTALLATION SHALL BE PER MANUFACTURERS WRITTEN INSTRUCTIONS.

VERIFY ALL CONDITIONS PRIOR TO FABRICATION OF SYSTEM. | MODIFICATIONS SHALL BE MADE ONLY AFTER APPROVAL OF ENGINEER. ENGINEERING GROUP 5228 VALLEYPOINTE PKWY ROANOKE, VIRGINIA 24019 (540) 265-4444

PLUMBING LEGEND

SYMBOLS AND ABBREVIATIONS

─○>CV

HOT WATER

HWR - HOT WATER RETURN

PVC - POLYVINYL CHLORIDE

- PRESSURE &

TEMPERATURE

RELIEF VALVE

- SHOCK ABSORBER

REDUCING VALVE

HB - HOSE BIBB

PRV - PRESSURE

SAN - SANITARY

GENERAL PLUMBING NOTES

MAKE PROPER H & CW, HWR, W, V, ETC.. PIPING CONNECTIONS

CHECK WITH MANUFACTURER'S WRITTEN INSTRUCTIONS PRIOR TO

. ALL CUTOFF VALVES, SHOCK ABSORBERS, ETC. SHALL BE ACCESSIBLE

IDENTIFICATION KEY

REFERENCED DRAWINGS

SECTION, ELEVATION, OR DETAIL SYMBOL

- LETTER INDICATES

ELEVATION OR DETAIL.

- DRAWING NUMBER WHERE

ELEVATION, SECTION, OR

DETAIL IS DRAWN.

6. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL EXISTING

ALL PLUMBING DEMOLITION SHALL BE COORDINATED WITH

ELBOWS AND CONNECTIONS ARE NOT SHOWN.

. COORDINATE WITH ALL EXISTING CONDITIONS

4. PIPE ALL DRAINS TO EXISTING FLOOR DRAINS

PIPING BEFORE NEW PIPING IS INSTALLED.

INSTALLATION OF ALL EQUIPMENT.

TO ALL FIXTURES AND EQUIPMENT EVEN THOUGH ALL BRANCH MAINS,

TEE OR ELBOW FROM TOP OF MAIN

TOP OF MAIN

BOTTOM OF MAIN

SIDE OF MAIN

DIAGRAMMATIC

HOT WATER

JLOBE VALVE

CHECK VALVE

BALANCING COCK

SHOCK ABSORBER

ABV - ABOVE

BEL - BELOW

AD - ACCESS DOOR

CO - CLEAN-OUT

CONC. - CONCRETE

CV - CUTOFF VALVE

- EXISTING

FD - FLOOR DRAIN

CW - COLD WATER

DN - DOWN

THE OWNER.

NUMBER INDICATES

SECTION. ——

DRAWING NUMBER WHERE

ELEVATION, SECTION, OR

THESE DRAWINGS ARE BASED ON HISTORICAL DRAWINGS OF THE

EXISTING BUILDING PROVIDED BY THE OWNER. CONTRACTOR SHALL

DETAIL IS TAKEN.

- CAST IRON

STRAINER

CONNECT TO EXISTING EXTENT OF DEMOLITION

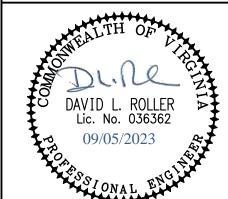
OT WATER RETURN

IRECTION OF FLOW

CUTOFF VALVE (IN PLAN)

CUTOFF VALVE (IN VERTICAL)

SEPTEMBER 5, 2023 COMMISSION NO. 23390

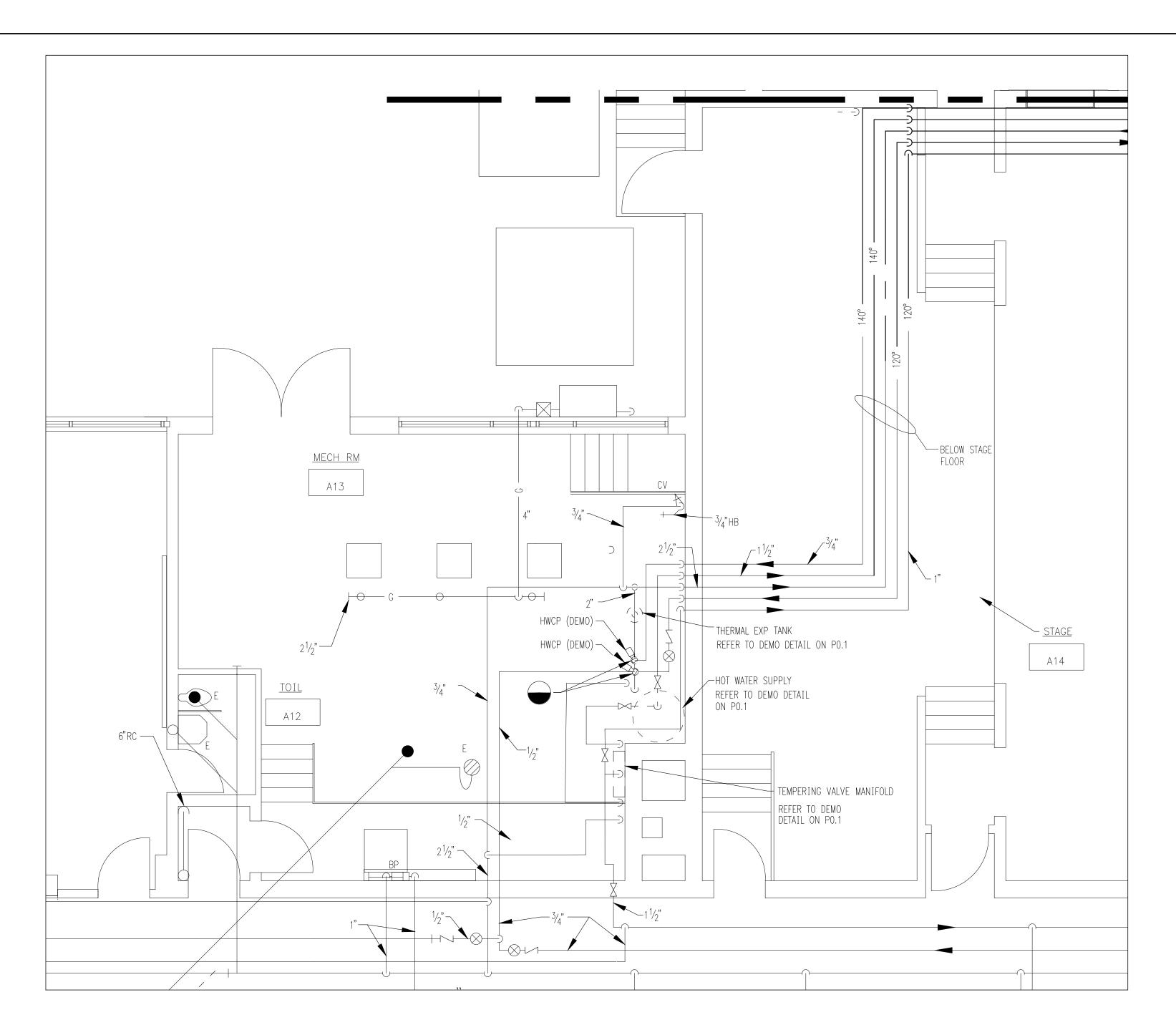


REVISIONS CONSTRUCTION DOCUMENTS

SHEET TITLE DETAILS NOTES, SCHEDULES SPECIFICATIONS

SHEET NUMBER

P0.1



PLUMBING DEMOLITION FLOOR PLAN

1/4 "= 1'-0"

SHEET NOTES

- CONNECT WATER HEATER EWH-1 TO EXISTING 480V-3P- 20A BREAKER IN SPACES 25,27,29 IN PANEL HMA, LOCATED IN ELECTRICAL ROOM NEXT TO MECHANICAL ROOM.
- CONNECT WATER HEATER EWH-2 TO EXISTING 480V-3P- 20A BREAKER IN SPACES 31,33,35 IN PANEL HMA, LOCATED IN ELECTRICAL ROOM NEXT TO MECHANICAL ROOM.
- PROVIDE HEAVY DUTY 480V-3P-30A FUSIBLE DISCONNECT WITH 30A FUSES..
- REFER TO SHEET PO.1 FOR NEW EQUIPMENT AND CONNECTION DETAILS

ASCENT
ENGINEERING GROUP

5228 VALLEYPOINTE PKWY
ROANOKE, VIRGINIA 24019
(540) 265-4444

SEPTEMBER 5, 2023

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COMMISSION NO. 23390

D: DWR C: F

DAVID L. ROLLER Lic. No. 036362

HERMAN L. HORN ES ROANOKE COUNTY SCHOOL ROANOKE, VIRGINIA

REVISIONS
CONSTRUCTION
DOCUMENTS

DOCUMENTS

SHEET TITLE
PLUMBING
FLOOR PLANS

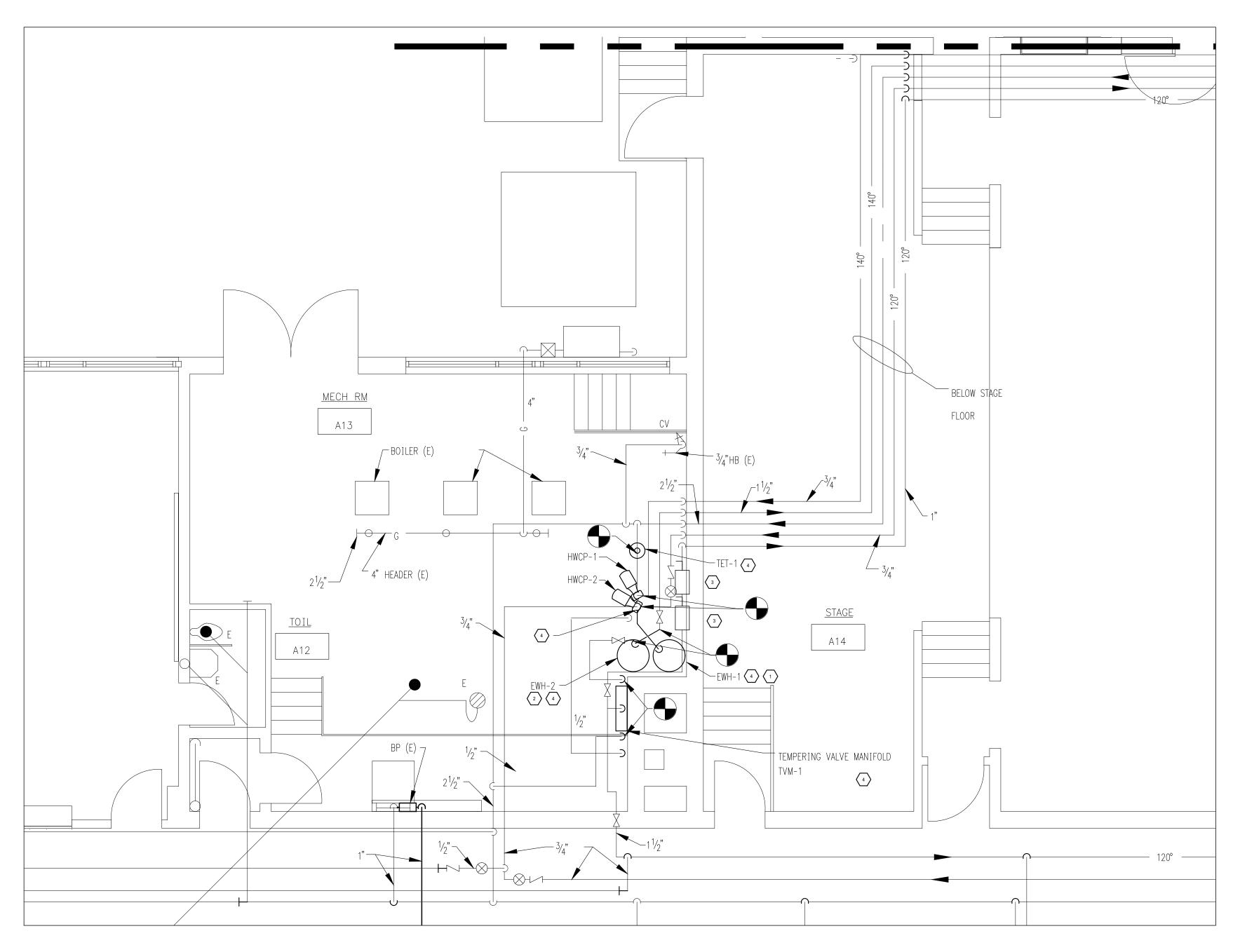
SHEET NUMBER

GRAPHIC SCALES

SCALE: 1/4" = 1'-0"

4' 2' 0 4' 8'

P1.1



PLUMBING FLOOR PLAN

1/4 "= 1'-0"

THESE DRAWINGS ARE BASED ON HISTORICAL DRAWINGS OF THE EXISTING BUILDING PROVIDED BY THE OWNER. CONTRACTOR SHALL VERIFY ALL CONDITIONS PRIOR TO FABRICATION OF SYSTEM.

MODIFICATIONS SHALL BE MADE ONLY AFTER APPROVAL OF ENGINEER.

MECHANICAL DEMO PLAN

1/4"= 1'-0"

DEMO SHEET NOTES

1 DISCONNECT DHWP1 MOTOR STARTER. REMOVE CONDUIT AND CONDUCTORS BACK
TO NEAREST EXISTING TO REMAIN DEVICE OR SOURCE. CONVERT BREAKER TO SPARE.

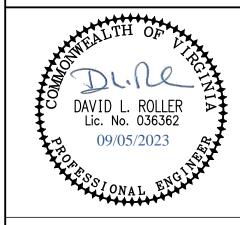


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DWR C:



L E G	Ε	N	D
HEATING WATER SUPPLY			—— HWS ——
HEATING WATER RETURN			——————————————————————————————————————
CHILLED WATER SUPPLY			——— CWS ——
CHILLED WATER RETURN			
CONDENSATE DRAIN			D
COLD WATER			
GAS			—— G ——
VENT			V
SERVICE VALVE			
BALANCING COCK			⊗
STRAINER			<u> </u>
CHECK VALVE			
RELIEF VALVE			
GLOBE VALVE			——M——
CONTROL VALVE			——————————————————————————————————————
GAUGE			<u> </u>
THERMOMETER			Ψ
EXPANSION JOINT			
ELECTRIC THERMOSTAT			_
DDC SPACE TEMPERATURE SENSOR			S
DUCT SMOKE DETECTOR			T
DIRECTION OF SLOPE DOWN			
DIRECTION OF FLOW			-
ANCHOR			 ×
ACOUSTIC LINED DUCT			
DUCT TRANSITION			
FLEXIBLE DUCT CONNECTION			
CONNECT TO EXISTING			•
NEW WORK			
EXISTING WORK TO REMAIN			
EXISTING WORK TO BE REMOVED			

STANDARD	A	ABBREVIATIONS				
ABOVE ABOVE FINISHED FLOOR ADJUSTABLE DEFLECTOR BELOW BOTTOM GRILLE BOTTOM REGISTER CEILING DIFFUSER CEILING GRILLE CEILING REGISTER CLEANOUT COLD WATER DIAMETER FIRE DAMPER FROM	ABV AFF AD BEL BG BR CD CG CR CO CW Ø FDPR FR	LINEAR SLOT DIFFUSER MANUAL AIR VENT MANUAL VOLUME DAMPER MOTOR OPERATED DAMPER NOT TO SCALE OUTSIDE AIR OVAL SPLITTER DAMPER DUCT SMOKE DETECTOR SMOKE DAMPER STAINLESS STEEL TOP GRILLE TOP REGISTER	LSD MAV MVD MOD NTS OA SD SDR SDPR SS TG TR			

COORDINATION NOTE

ALL DUCTWORK AND PIPES SHALL BE COORDINATED WITH OTHER DUCTS, PIPES, LIGHTS, STRUCTURAL SYSTEM, CEILING SUPPORTS AND FRAMING BEFORE INSTALLATION. MINOR DUCT OFFSETS AND TRANSITIONS SHALL BE PROVIDED AS REQUIRED. WHERE TRANSITIONS ARE REQUIRED, CROSS SECTIONAL AREA OF DUCT SHALL NOT BE REDUCED. MEASUREMENTS FOR VERTICAL CLEARANCES OF DUCTWORK SHALL BE TAKEN AT THE JOB SITE BEFORE FABRICATION OF ANY DUCTWORK.

HERMAN L. HORN ES
ROANOKE COUNTY SCHOO
ROANOKE, VIRGINIA

REVISIONS CONSTRUCTION DOCUMENTS

MECHANICAL
DEMO FLOOR PLAN

SHEET NUMBER

M1.1

GRAPHIC SCALES

SCALE: 1/4" = 1'-0"

4' 2' 0 4' 8'