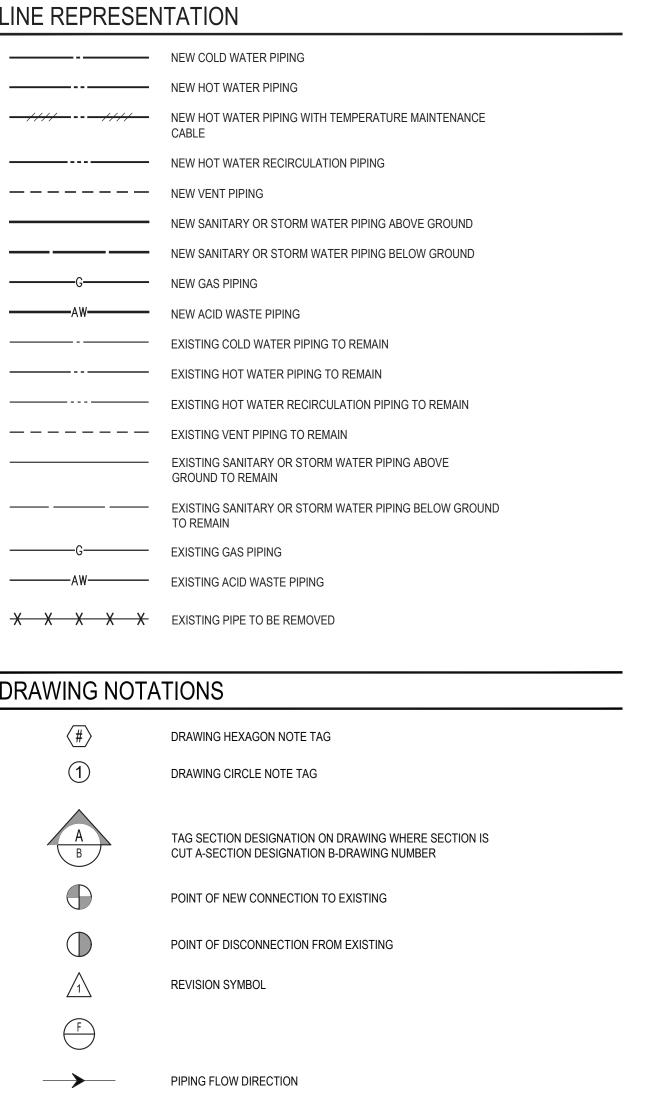
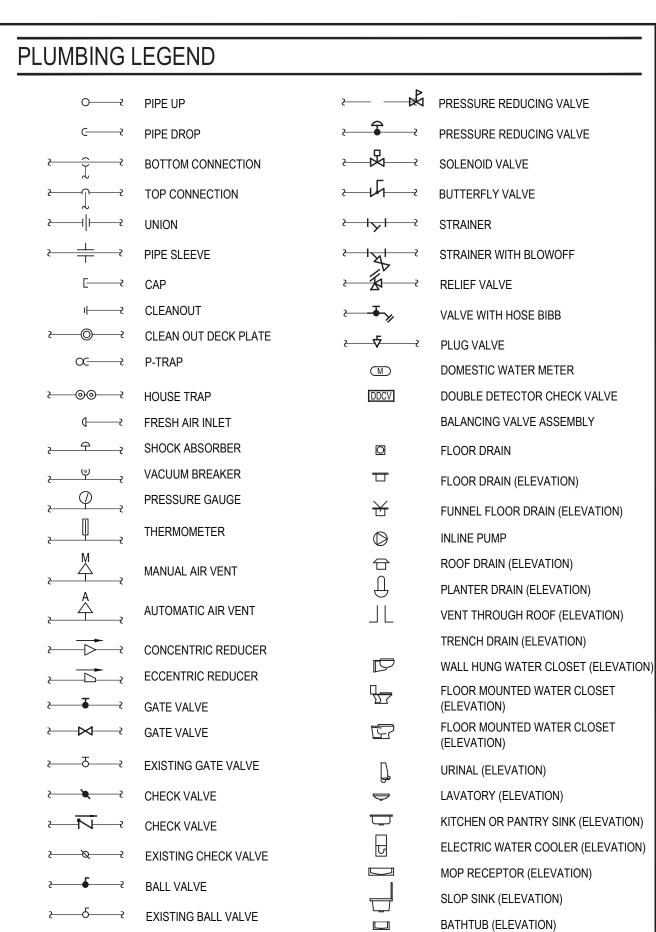
PLUMBING NOTES LINE REPRESENTATION 1. ALL NEW DOMESTIC HOT AND COLD WATER SUPPLY AND HOT WATER RETURN PIPES NEW COLD WATER PIPING SHALL BE COPPER TUBING AND SHALL ORIGINATE ON THE SAME FLOOR FROM THE NEAREST WET COLUMN WITH PROPER ACCESS FOR MAINTENANCE. IF ATTACHED TO NEW HOT WATER PIPING DISSIMILAR METAL, A CORROSION INHIBITOR IS TO BE PROVIDED. 2. INSULATE ALL NEW AND EXISTING DOMESTIC HOT AND COLD WATER SUPPLY AND HOT WATER RETURN PIPES. 3. WASTE LINES SHALL BE PROPERLY PITCHED TO PREVENT "TRAPPED" WATER. INSTALL WASTE LINE CONNECTIONS WITH LONG TERM OR 45° "Y" FITTINGS. — — — — — NEW VENT PIPING 4. RETAIN EXISTING CLEAN OUT CONNECTIONS AND PROVIDE CLEAN OUT CONNECTIONS AT NEW FITTINGS. 5. WHEN CONNECTING NEW DOMESTIC HOT AND COLD WATER SUPPLY AND HOT WATER RETURN PIPES TO EXISTING RISERS, CONTRACTORS SHALL LEAVE A PLUGGED VALVED G———— NEW GAS PIPING OUTLET FOR EACH, FOR FUTURE USE. AW——— NEW ACID WASTE PIPING 6. ALL NEW DOMESTIC HOT AND COLD WATER SUPPLY AND HOT WATER RETURN PIPES ATTENDANT FITTINGS MUST BE PROPERLY INSULATED AND COVERED. 7. INDIVIDUAL SHUT-OFF VALVES MUST BE SUPPLIED AND INSTALLED FOR EACH NEW FIXTURE, INCLUDING WATER COOLERS. 8. ALL NEW PIPES ARE TO BE SUPPORTED FROM SLAB OR STEEL BEAMS, NOT FROM EXISTING PIPES OR DUCT WORK. — — — — — EXISTING VENT PIPING TO REMAIN 9. ALL WATER SHUTDOWNS TO BE COORDINATED THROUGH THE BUILDING MANAGER. ALL WATER SHUTDOWNS ARE TO BE PERFORMED OR SUPERVISED BY BUILDING **GROUND TO REMAIN** PERSONNEL, AT THE DISCRETION OF THE BUILDING MANAGER. 10. PLUMBER SHALL BE RESPONSIBLE THAT ENTIRE INSTALLATION IS IN ACCORDANCE WITH TO REMAIN LOCAL AND STATE CODES. ————G———— EXISTING GAS PIPING 11. PRIVATE BATHROOMS MUST BE INSTALLED ON MINIMUM 4" WASTE LINE. AW——— EXISTING ACID WASTE PIPING 12. ALL VALVES ARE TO BE PROPERLY TAGGED. X X X X EXISTING PIPE TO BE REMOVED 13. ALL DOMESTIC WATER PIPING SHALL BE PROPERLY LABELED. 14. ANY WET COLUMNS USED SHOULD BE PROVIDED WITH A 24" x 24" STEEL SURFACE MOUNTED ACCESS DOOR. DRAWING NOTATIONS 15. HOT WATER HEATERS SERVING PRIVATE BATHROOMS, KITCHENS, ETC. ARE TO BE SUPPLIED FROM THE WET COLUMN THAT SUPPLIES THE COLD WATER TO THESE AREAS. DRAWING HEXAGON NOTE TAG

					P	PRE	ΞS	SU	JR	E \	/E	S	SE	L	A١	1D	Н	EΑ	TE	ΞR	S	CHEDULE
DESIGNATION	NO. REQUIRED	MANUFACTURER AND MODEL NUMBER	STORAGE WATER TEMPERATURE (DEG.F)	VOLUME/HEATER (GALS.) RECOVERY/HEATER	(GPH) TEMPERATURE RISE (DEG. F)	CAPACITY FLOW (G.P.M.)	W.W.P. (PSIG.)	TEST PRESSURE (PSIG.)	DIAMETER (INCHES)	LENGHT/HEIGHT (INCHES)	WIDTH (INCHES)	INLET/OUTLET (INCHES)	GAS LOAD (CFH)	GAS PRESSURE REQ. (IN W.C.)	SHELL THICKNESS (INCH.)	HEAD THICKNESS (INCH.)	STEAM LOAD (LBS./HR./HTR.)	MAX. ALLOWABLE PRESSURE DROP THROUGH VALVE	STEAM VALVE (INCH.)	STEAM PRESSURE IN LINE (PSI)		LOCATION/REMARKS
DHW-	1 2	AERCO INN 1060	140		100	20				42/75	28	2	1060	4								PLUMBING EQUIPMENT ROOM @ BASEMENT
ET-1	2	AMTROL ST-5-C		2					8	13												PLUMBING EQUIPMENT ROOM @ BASEMENT
DHW-:	2 2	AERCO INN 1350	120		80	33				42/75	28	2	1350	4								PLUMBING EQUIPMENT ROOM @ BASEMENT



ABBREVIATIONS

ABBREVIATIO	
AFF	ABOVE FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BVA	BALANCING VALVE ASSEMBLY
CM	COFFEE MAKER
CODP	CLEAN OUT DECK PLATE
CW	COLD WATER
DIA	DIAMETER
DN	DOWN
EWC	ELECTRIC WATER COOLER
FAI	FRESH AIR INLET
FCW	FILTERED COLD WATER
FD	FLOOR DRAIN
FFD	FUNNEL FLOOR DRAIN
FL	FLOOR
FS	FLOOR SINK
G	GAS
НВ	HOSE BIBB
HW	HOT WATER
HWR	HOT WATER RECIRCULATION
IM	ICE MAKER
LAV	LAVATORY
LDR	LEADER
MIN	MINIMUM
MR	MOP RECEPTOR
Р	PLUMBING
RD	ROOF DRAIN
RPZ	REDUCED PRESSURE ZONE
RTU	ROOF TOP UNIT
S	SANITARY
SH	SHOWER SERVICE
SK	SINK
ST	STORM
UR	URINAL
V	VENT
VB	VACUUM BREAKER
VIF	VERIFY IN FIELD
VTR	VENT THRU ROOF
W	WASTE
WH	WALL HYDRANT
WC	WATER CLOSET



$\overline{\Box}$ 3 COMPARTMENT SINK (ELEVATION) **₹** OS&Y VALVE

™ MIXING VALVE

PLUMBIN	IG DRAWING LIST
P-001	PLUMBING LEGEND AND NOTES
P-101	PLUMBING SPECIFICATIONS
P-201	PLUMBING BASEMENT FLOOR DEMOLITION PLAN
P-501	PLUMBING BASEMENT FLOOR PLAN
P-901	PLUMBING FLOOR DETAILS

2 COMPARTMENT SINK (ELEVATION)

10/29/21 ISSUED FOR REVIEW Date Issued

GE Crotonville - Executive

Residence Building Water

Heater Replacement

Old Albany Post Road,

Ossining, NY



PLUMBING LEGEND & NOTES

NOT TO SCALE 10/XX/2021

G003-03-017 Drawing No:

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 ENERGY CONSERVATION THIS PLAN IS APPROVED ONLY FOR THE WORK ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

1.01 GENERAL REQUIREMENTS

- A THE LATEST EDITION OF AIA DOCUMENTS A201 GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, OR AS REQUIRED BY THE ARCHITECTURAL DOCUMENTS AND/OR THE STRUCTURAL ENGINEERS DOCUMENTS ARE PART OF THE CONTRACT.
- B. PROVIDE ALL PLUMBING WORK SHOWN ON THE CONTRACT DOCUMENTS. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE UNIFORM CONSTRUCTION CODE (N.IAC 5:23), 2015 INTERNATIONAL BUILDING CODE AS ADOPTED BY NEW JERSEY, 2015 NATIONAL STANDARD PLUMBING CODE, 2015 INTERNATIONAL FUEL GAS CODE AS ADOPTED BY NEW JERSEY, LANDLORD'S BUILDING STANDARDS, AND ALL AUTHORITIES HAVING JURISDICTION (AHJ), APPLICABLE NATIONAL, STATE AND LOCAL CODES, LAWS AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK SHALL BE INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS.
- C. ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE OF THIS WORK. FINAL ACCEPTANCE SHALL BE DEFINED AS THE TIME AT WHICH THE PLUMBING WORK IS TAKEN OVER AND ACCEPTED BY THE OWNER. ENGAGE THE SERVICES OF VARIOUS MANUFACTURERS SUPPLYING THE EQUIPMENT FOR THE PROPER STARTUP, OPERATION AND TRAINING OF ALL SYSTEMS INSTALLED. INSTRUCT THE OWNERS PERSONNEL IN THE PROPER OPERATION AND SERVICING OF THE EQUIPMENT.
- D. BIDDERS SHALL VISIT AND CAREFULLY EXAMINE THE AREA AFFECTED BY THIS WORK TO FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS AND THE DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THIS WORK BEFORE SUBMITTING PROPOSALS. EXAMINE THE CONTRACT DOCUMENTS OF THIS TRADE AND ALL OTHER TRADES FOR THIS PROJECT. VERIFY ALL EXISTING CONDITIONS AT THE SITE, AND BECOME FULLY INFORMED AS TO THE EXTENT AND CHARACTER OF THE WORK IN THE BUILDING. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT, OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO BID. IF DISCREPANCIES ARE NOT RESOLVED TO CONTRACTORS SATISFACTION THEY SHALL BE QUALIFIED IN THEIR BID SUBMISSION.
- E. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN CONTRACT. IT IS NOT INTENDED TO SPECIFY OR TO SHOW EVERY OFFSET, FITTING, OR COMPONENT. HOWEVER, CONTRACT DOCUMENTS REQUIRE COMPONENTS AND MATERIALS WHETHER OR NOT INDICATED OR SPECIFIED AS NECESSARY TO MAKE THE INSTALLATION COMPLETE AND OPERATIONAL. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICT. THE CONTRACTOR SHALL, WITHOUT EXTRA COST TO THE OWNER, MAKE ALL REASONABLE MODIFICATIONS IN THE WORK AS MAY BE REQUIRED TO PREVENT CONFLICT WITH THE WORK OF OTHER TRADES, OR FOR THE PROPER INSTALLATION OF THE WORK.
- SHALL BE MADE AT SUCH TIME AS TO CAUSE THE LEAST INTERFERENCE WITH ESTABLISHED BUILDING OPERATING PROCEDURE ALL EXISTING SERVICE SHUTDOWNS SHALL BE SUPERVISED AND DIRECTED BY BUILDING MANAGEMENT. THE CONTRACTOR SHALL GIVE NOTICE 48 HOURS PRIOR TO ANY G. ALTHOUGH NOT SPECIFICALLY MENTIONED HEREIN OR SHOWN ON THE DRAWINGS, ANY EQUIPMENT,

F. INTERRUPTION OF EXISTING BUILDING SERVICES IN ORDER TO CONNECT NEW PIPING TO EXISTING

- MATERIALS, ACCESSORIES, OR LABOR REQUIRED FOR A CODE COMPLIANT AND COMPLETE INSTALLATION OF THE PLUMBING WORK SHALL BE FURNISHED AND INSTALLED AS PART OF THE H. PATCH AND/OR REPLACE DAMAGED ARCHITECTURAL COMPONENTS AS A RESULT OF PLUMBING
- SYSTEMS INSTALLATION. CLEAN UP THE CONSTRUCTION SITE DAILY DURING CONSTRUCTION SO AS NOT TO INTERFERE WITH THE WORK OF OTHER TRADES, AND AFTER THE COMPLETION OF INSTALLATION AND TESTING
- I. ALL NECESSARY CUTTING AND PATCHING IN FLOOR SLABS, ROOF SLABS, WALLS, AND CEILINGS FOR THE PLUMBING WORK SHALL BE PERFORMED BY THIS CONTRACTOR. RESTORE TO MATCH EXISTING
- J. REMOVAL, TEMPORARY CONNECTIONS AND RELOCATION OF CERTAIN EXISTING WORK WILL BE NECESSARY FOR THE INSTALLATION OF THE NEW SYSTEMS. ALL EXISTING CONDITIONS ARE NOT COMPLETELY DETAILED ON THE DRAWINGS. THE CONTRACTOR SHALL SURVEY THE SITE AND MAKE ALL NECESSARY CHANGES REQUIRED BASED ON EXISTING CONDITIONS FOR PROPER INSTALLATION OF
- K. ALL EQUIPMENT INSTALLED OR CONNECTED INTO THE BUILDING STACKS, RISERS, PLUMBING SYSTEMS AND INFRASTRUCTURE SHALL BE APPROVED IN ADVANCE BY THE BUILDING PRIOR TO INSTALLATION. PLAN INSTALLATION OF NEW WORK AND CONNECTIONS TO EXISTING PIPING TO INSURE MINIMUM INTERFERENCE WITH REGULAR OPERATION OF EXISTING FACILITIES. ALL SYSTEM SHUTDOWNS AFFECTING OTHER AREAS SHALL BE COORDINATED WITH BUILDING MANAGEMENT.
- L. GUARANTEE: THE CONTRACTOR SHALL GUARANTEE AND SERVICE THE ENTIRE INSTALLATION FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE FINAL ACCEPTANCE OF THE INSTALLATION. THE CONTRACTOR SHALL, DURING THE PERIOD OF THE GUARANTEE, REPLACE OR REPAIR AT HIS OWN EXPENSE ANY PIECE OF EQUIPMENT AND/OR MATERIAL WHICH IS FOUND TO BE DEFECTIVE. THE REPLACEMENT OR REPAIR SHALL BE PERFORMED THE SAME DAY OF NOTIFICATION IN AN EMERGENCY FASHION WHEN NOTIFIED BY THE OWNER OR AUTHORIZED REPRESENTATIVE. THE CONTRACTOR SHALL ALSO REPAIR ALL DAMAGE TO SURROUNDING WORK CAUSED BY THE FAILURE. REPAIR OR REPLACEMENT OF DEFECTIVE FOLLIPMENT. THE FINAL ACCEPTANCE WILL BE MADE AFTER THE CONTRACTOR HAS DEMONSTRATED THAT HIS WORK FULFILLS THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATION, AND HAS FURNISHED ALL THE REQUIRED CERTIFICATES OF INSPECTION AND

1.02 SCOPE OF WORK A. THE CONTRACTOR SHALL FURNISH AND INSTALL PLUMBING WORK COMPLETE WITH ALL EQUIPMENT,

- FIXTURES, PIPING, VALVES, AND ACCESSORIES AND ASSOCIATED WORK IN ACCORDANCE ALL NATIONAL, STATE AND LOCAL AUTHORITIES HAVING JURISDICTION, BUILDING MANAGEMENT, DESIGN DRAWINGS AND THIS SPECIFICATION. THE SCOPE OF WORK SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING
- 1. <ADD IF REQUIRED> DISCONNECT AND REMOVE PLUMBING EQUIPMENT, FIXTURES, PIPING AND SUPPORTS. REMOVE PIPING BACK TO EXISTING STACKS AND RISERS AND CAP.
- 2. FURNISH AND INSTALL NEW FIXTURES, PIPING, VALVES, SUPPORTS, SEISMIC BRACING AND RELATED EQUIPMENT. MAKE ALL REQUIRED PLUMBING CONNECTIONS TO APPLIANCES OR EQUIPMENT FURNISHED BY OTHERS.
- 3. PREPARE AND SUBMIT 'AS-BUILT' DRAWINGS INDICATING ACTUAL LOCATIONS OF EQUIPMENT, PIPING, AND VALVES. 'AS-BUILT' DRAWINGS SHALL BE SUBMITTED TO THE OWNER UPON COMPLETION OF INSTALLATION AND TESTING. SUBMIT DIGITAL COPIES IN PDF FORMAT AND .DWG
- 4. PERFORM CUTTING, CORING, AND ROUGH PATCHING REQUIRED TO ACCOMMODATE PLUMBING
- 5. PERFORM MAINTENANCE AND PROPER OPERATION OF EXISTING BASE BUILDING SYSTEMS WITHIN THE CONTRACT AREA IN ACCORDANCE WITH THE REQUIREMENTS OF BUILDING MANAGEMENT.
- 6. PROVIDE INSULATION OF PIPING, FITTINGS, VALVES. PROVIDE PIPING SYSTEMS IDENTIFICATION. PROVIDE VALVE TAGS AND CHART.
- COORDINATION WITH WORK OF OTHER TRADES. SCAFFOLDING AND RIGGING.
- TESTING AS REQUIRED BY APPLICABLE CODES AND STANDARDS.
- 10. SECURING OF ALL PERMITS AND APPROVALS AND PAYMENT OF FEES.
- 1.03 SHOP DRAWINGS, EQUIPMENT SUBMISSION, MAINTENANCE MANUALS.

- A. SUBMIT ONE (1) PRINT OF THE PLUMBING PIPING LAYOUT, CERTIFIED BY ALL TRADES THAT COORDINATION HAS BEEN ESTABLISHED. SUBMIT MANUFACTURER'S CATALOG CUTS OF THE FOLLOWING:
- PIPING AND FITTINGS
- INSULATION FIXTURES, SUPPORTS, TRIM

VALVES

- VALVE TAGS AND CHART
- BACKFLOW PREVENTION DEVICES
- 7. HANGERS AND SUPPORTS, SEISMIC SUPPORTS
- 8. FLOOR DRAINS, FLOOR SINKS, FUNNEL DRAINS, CLEANOUTS 9. ROOF DRAINS, OVERFLOW ROOF DRAINS
- 10. HOSE BIBBS.
- 11. ESCUTCHEONS AND SLEEVES
- 12. WATER HEATER(S) 13. LEAK DETECTION SYSTEM

14. WATER METERS

- 15. HOT WATER TEMPERATURE MAINTENANCE CABLE
- 16. OPERATION AND MAINTENANCE MANUALS
- 17. MANUFACTURER'S CATALOG CUTS OF ALL EQUIPMENT
- B. UPON REQUEST, THE ENGINEER MAY FURNISH DESIGN DRAWINGS TO THE CONTRACTOR TO AID IN DEVELOPMENT OF PIPING SHOP DRAWINGS. THESE SHALL BE FURNISHED IN THE SAME FORMAT FOR WHICH THE DESIGN DRAWINGS WERE CREATED.

1.04 SUBSTITUTIONS

A. NO SUBSTITUTE MATERIAL OR MANUFACTURER OF EQUIPMENT SHALL BE PERMITTED WITHOUT A FORMAL WRITTEN SUBMITTAL TO THE ENGINEER WHICH INCLUDES ALL DIMENSIONAL, PERFORMANCE AND MATERIAL SPECIFICATIONS. ANY CHANGES IN LAYOUT, STRUCTURAL REQUIREMENTS, OR DESIGN DUE TO THE USE OF A SUBSTITUTION SHALL BE SUBMITTED TO THE ENGINEER AS PART OF THIS

PROPOSAL THE CONTRACTOR TAKES FULL RESPONSIBILITY FOR THE SUBSTITUTION AND ALL

CHANGES RESULTING FROM SUBSTITUTION. ALL ITEMS SHALL BE SUBMITTED FOR REVIEW IN

- CONJUNCTION WITH THE SUBMITTAL OF THE ALTERNATE. ANY SUBSTITUTION MUST BE SUBMITTED WITH AN EXPLANATION WHY SURSTITUTION IS BEING LITHITED. IF THE SURSTITUTED ITEM DEVIATES FROM THE SPECIFIED ITEM. THOSE DEVIATIONS ARE TO BE IDENTIFIED ON A LINE BY LINE BASIS. IF THE SUBSTITUTION IS BEING UTILIZED FOR FINANCIAL REASONS, THE ASSOCIATED CREDIT MUST BE SIMULTANEOUSLY SUBMITTED
- B. ALL SUBSTITUTED MATERIAL SHALL CONFORM TO SPACE REQUIREMENTS AND PERFORMANCE REQUIREMENTS SHOWN ON CONTRACT DOCUMENTS.
- C. CONTRACTOR SHALL SUBMIT HIS BID BASED ON THE SPECIFIED ITEMS AND SHALL SUPPLY AS AN ADD OR DEDUCT ALTERNATE PRICE FOR ANY SUBSTITUTIONS.

1.05 QUALITY ASSURANCE

- A. ALL PIPES SHALL BE MARKED TO INDICATE MANUFACTURER AND ASTM STANDARD. EACH FULL PIPE LENGTH SHALL HAVE THE MANUFACTURER'S NAME CAST, STAMPED OR ROLLED ON.
- B. EACH FITTING SHALL HAVE THE MANUFACTURER'S SYMBOL & PRESSURE RATING CAST, STAMPED OR
- C. ALL NEW COMPONENTS OF THE PLUMBING SYSTEM MUST CONFORM TO LOCAL AND STATE BUILDING AND PLUMBING CODES AND BUILDING STANDARDS

1.06 COORDINATION WITH BUILDING MANAGEMENT

- A. THE PLUMBING CONTRACTOR IS TO OBTAIN A COPY OF THE BUILDING RULES AND REGULATIONS FOR TENANT ALTERATIONS PRIOR TO RID SUBMISSION IN ORDER TO DETERMINE THE BUILDING MANAGEMENTS MINIMUM MATERIAL REQUIREMENTS AND THE EXTENT OF WORK REQUIRED TO BE PERFORMED ON PREMIUM TIME, INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:
- 1. SHUT-DOWNS OF BUILDING SERVICES 2. NOISY WORK, INCLUDING CORE DRILLING
- 3. WORK IN OTHER TENANTS SPACES B. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR ADHERING TO THE BUILDING OWNER'S RULES AND REGULATIONS, ANY DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND THE BUILDING'S RULES AND REGULATIONS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER WITH THE BID FOR
- C. PRIOR TO THE START OF ANY BUILDING PLUMBING SYSTEM MODIFICATIONS, THE PROPERTY MANAGER SHALL BE PROVIDED WITH A MINIMUM OF 24-HOURS NOTICE IN ORDER. INTERRUPTION OF EXISTING BUILDING SERVICES IN ORDER TO CONNECT NEW PIPING TO EXISTING SHALL BE MADE AT SUCH TIME AS TO CAUSE THE LEAST INTERFERENCE WITH ESTABLISHED BUILDING OPERATING PROCEDURE. THE CONTRACTOR SHALL NOT INTERRUPT THE SERVICE WITHOUT WRITTEN PERMISSION OF BUILDING
- D. DURING THE PROJECT DURATION THE BUILDING MANAGEMENT OFFICE AND ITS DESIGNATED. REPRESENTATIVE SHALL BE ABLE TO INSPECT THE WORK IN PROGRESS. ANY WORK WHICH THE BUILDING MANAGEMENT DEEMS UNACCEPTABLE SHALL BE REMOVED AND REPLACED AT THE EXPENSE OF CONTRACTOR/TENANT

- A. CONTRACTOR SHALL MAINTAIN RECORD DRAWING PRINTS ON JOB SITE AND RECORD, AT TIME OF OCCURRENCE, DEVIATIONS FROM CONTRACT DOCUMENTS.
- B. AT THE COMPLETION OF WORK AND BEFORE FINAL ACCEPTANCE, PROVIDE AS-BUILT DRAWINGS OF THE INSTALLATION, IN AUTO-CAD 2014 OR NEWER. AN ELECTRONIC COPY (AUTOCAD FORMAT) OF ALL PLUMBING DRAWINGS WILL BE PROVIDED TO THE PLUMBING CONTRACTOR BY THE CONSULTANT AT NO COST. (ARCHITECTURAL DRAWINGS IN AUTOCAD FORMAT MUST BE OBTAINED FROM THE ARCHITECT). THE DRAWINGS WILL REFLECT THE BID AND/OR CONSTRUCTION SET OF DRAWINGS. SHOULD THE CONTRACTOR REQUIRE ADDITIONAL ELECTRONIC COPIES DURING CONSTRUCTION, A COST OF \$250.00 PER DRAWING WILL BE CHARGED BY THE CONSULTANT.
- C. CLEARLY INDICATE THE WORDS "AS-BUILT" IN THE TITLE BLOCK COLUMN OF THE DRAWINGS AS WELL S THE PLUMBING CONTRACTOR'S NAME AND ADDRESS.
- D. SUBMIT A SINGLE PRINT TO CONSULTANT FOR REVIEW. WHEN FOUND ACCEPTABLE BY THE CONSULTANT, SUBMIT THREE SETS OF PRINTS TOGETHER WITH THE CAD DISK FOR PRESENTATION TO THE LANDLORD AND TENANT.

1.08 OPERATION AND MAINTENANCE MANUALS:

- A. PROVIDE TWO) SETS OF OPERATION AND MAINTENANCE MANUALS OF ALL PLUMBING EQUIPMENT SUBMITTED IN HARD COVER 3-RING BINDERS. INCLUDE THE FOLLOWING INFORMATION IN THE OPERATIONS AND MAINTENANCE MANUALS:
- 1. NAMES AND ADDRESS OF LOCAL SUPPLIERS FOR THE ITEMS INCLUDED. 2 TECHNICAL DATA PRODUCT DATA SUPPLEMENTED BY BUILLETINS COMPONENT ILLUSTRATIONS EXPLODED VIEWS, TECHNICAL DESCRIPTIONS OF ITEMS, AND PARTS LISTS. ADVERTISING OR SALES
- LITERATURE IS NOT ACCEPTABLE.
- THE CONSULTANTS REVIEWED SHOP DRAWINGS. 4. CERTIFICATE(S) OF ACCEPTANCE FROM THE AUTHORITIES INSPECTION DEPARTMENT.
- B. REVIEW INFORMATION PROVIDED IN THE MAINTENANCE INSTRUCTIONS AND MANUALS WITH THE TENANT'S OPERATING PERSONNEL AND LANDLORD'S OPERATING PERSONNEL WHERE BASE BUILDING SYSTEMS ARE REVISED, TO ENSURE A COMPLETE UNDERSTANDING OF THE ELECTRICAL EQUIPMENT AND SYSTEMS AND THEIR OPERATION.
- A. ALL MATERIALS AND EQUIPMENT SHALL BE NEW, CERTIFIED BY A NATIONALLY RECOGNIZED TESTING
- LABORATORY AND MANUFACTURED TO THE STANDARDS SPECIFIED. A. PROVIDE AND MAINTAIN INSURANCE TO PROTECT THE LANDLORD, TENANT AND TRADES FROM ALL
- 1.11 CONTRACT DOCUMENTS A. THE DRAWINGS FOR THE PLUMBING WORK ARE DIAGRAMMATIC PERFORMANCE DRAWINGS ONLY INTENDED TO CONVEY THE SCOPE OF WORK AND INDICATE THE GENERAL ARRANGEMENT AND APPROXIMATE SIZE AND LOCATION OF PLUMBING AND EQUIPMENT. THE DRAWINGS DO NOT INTEND TO SHOW ARCHITECTURAL, INTERIOR DESIGN, MECHANICAL, STRUCTURAL OR BASE BUILDING DETAILS.

POSSIBLE CLAIMS. SUBMIT WITH BID FOR AN AMOUNT ACCEPTABLE TO LANDLORD AND TENANT.

- CONTRACTOR IS TO BE RESPONSIBLE FOR A THOROUGH KNOWLEDGE OF SAME BEFORE PROCEEDING B. DO NOT SCALE OR MEASURE DRAWINGS, BUT OBTAIN INFORMATION REGARDING ACCURATE
- DIMENSIONS FROM THE DIMENSIONS SHOWN ON THE DESIGN CONSULTANT/ARCHITECT'S DRAWINGS. C. ANY DISCREPANCIES BETWEEN DRAWINGS AND/OR SPECIFICATIONS AND EXISTING CONDITIONS, MUST
- BE REFERRED TO THE DESIGN CONSULTANT/ARCHITECT BEFORE ANY WORK AFFECTED IS BEGUN. G. PRESSURE REDUCING VALVE - ½" to 2": LEAD FREE, ASSE 1003 LISTED, DIRECT ACTING PRESSURE D. COOPERATE AND COORDINATE WITH OTHER CONTRACTORS IN LAYING OUT OF WORK SO AS NOT TO CONFLICT WITH THE WORK OF OTHER CONTRACTORS. CARRY OUT WORK PROMPTLY AS PER
- CONSTRUCTION SCHEDULE AND COORDINATE WITH WORK OF OTHER CONTRACTORS. E. MAKE, AT NO ADDITIONAL COST, ANY CHANGES OR ADDITIONS TO MATERIALS AND EQUIPMENT NECESSARY TO ACCOMMODATE STRUCTURAL CONDITIONS (OFFSETS AROUND BEAMS, COLUMN, ETC.)
- A. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS THAT THE CONTRACTOR IS TO PROVIDE
- COMPLETE AND OPERATIONAL SYSTEMS.
- B. ANY MISCELLANEOUS ITEMS. VALVES. FITTINGS, GAUGES, HARDWARE, ETC., NOT SPECIFICALLY DESCRIBED, BUT REQUIRED FOR THE OPERATION OF THE PLUMBING SYSTEMS, MUST BE PROVIDED AND INCLUDED AS PART OF THE BID.
- A. WHEREVER ANY BASE BUILDING EQUIPMENT OR NEW EQUIPMENT, VALVES, ETC. REQUIRES ACCESSIBILITY, MAINTENANCE OR ADJUSTMENT, PROVIDE ACCESS DOORS APPROVED BY DESIGN
- CONSULTANT/ARCHITECT AND LANDLORD. ARRANGE FOR ACCESS DOOR INSTALLATION BY THE DIVISION IN WHOSE WORK IT OCCURS.
- B. PROVIDE ACCESS PANELS, MINIMUM 18" X 18", FOR ALL NEW AND EXISTING

VALVES, EQUIPMENT, ETC. AS REQUIRED.

- A. BEFORE CORE DRILLING FLOOR SLAB OR STRUCTURAL WALLS, X-RAY SLABS OR WALLS AND HAVE THE LOCATIONS APPROVED BY THE LANDLORD IN WRITING.
- B. ANY EXISTING BUILDING SERVICE DAMAGED BY CORE DRILLING SHALL BE REPAIRED IMMEDIATELY AT NO COST TO LANDLORD OR TENANT.
- C. FLOOR DRILLING TO BE PERFORMED AFTER NORMAL WORKING HOURS AND AT A TIME ACCEPTABLE TO LANDLORD AND ALLOWANCES FOR THIS WORK SHALL BE INCLUDED IN BID PRICE SUBMITTED. 1.15 INTERRUPTION OF SERVICES
- A. INTERRUPTION OF EXISTING PLUMBING SERVICES TO ANY PART OF THE BUILDING SHALL OCCUR ONLY BY PRE-ARRANGEMENT WITH AND AT TIMES SUITABLE TO THE LANDLORD.
- B. INTERRUPTIONS SHALL ONLY OCCUR DURING PREMIUM TIME PERIODS; ALL ALLOWANCES FOR THIS
- SHALL BE INCLUDED IN THE PRICE SUBMITTED. 1.16 VALUATION OF CHANGES
- A. PROVIDE COMPLETE BREAKDOWN OF MATERIAL, LABOR, OVERHEAD, PROFIT, ETC., WHEN SUBMITTING QUOTATIONS FOR CHANGE ORDERS ON THIS PROJECT
- B. THE HOURLY LABOR RATE SHALL BE INCLUSIVE OF ALL CHARGES FOR SUPERVISION, VARIABLE LABOR FACTORS, HAND TOOLS, PAYROLL BURDENS, HEIGHT FACTORS, WARRANTIES, STORAGE, RENTALS, ADDITIONAL BONDING, PARKING, CLEAN-UP, AS-BUILT DRAWINGS, HOISTING, FREIGHT AND DELIVERY,

BUT EXCLUSIVE OF OVERHEAD AND PROFIT. 1.17 COMPLETION OF CONTRACT

- A. ALL EQUIPMENT MUST BE CLEANED AND TESTED BEFORE FINAL ACCEPTANCE BY THE CONSULTANT. B. DEFECTS AND DEFICIENCIES WHICH ORIGINATE OR BECOME EVIDENT DURING THE WARRANTY PERIOD MUST BE REPAIRED OR REPLACED, AT NO COST.
- A. VISIT THE SITE, EXAMINE THE EXISTING CONDITIONS AND BECOME FAMILIAR WITH THE EXTENT OF THE NECESSARY REMOVAL. RELOCATION. RECONNECTING AND REROUTING OF PLUMBING EQUIPMENT AND PIPING AS NECESSARY FOR THE COMPLETION OF THE PROJECT.
- B. REVIEW AND CONFIRM WITH THE ARCHITECT/DESIGNER'S DRAWINGS FOR THE COMPLETE EXTENT OF DEMOLITION AND ALTERATION.
- WORK, THAT ARE REQUIRED TO REMAIN IN SERVICE, SHALL DO SO.
- D. RELOCATE ANY PLUMBING PIPING OR EQUIPMENT THAT IS REQUIRED TO REMAIN IN SERVICE, THAT IS SECURED TO EXISTING WALLS, FLOORS OR CEILINGS TO BE DEMOLISHED.
- E. ALL EXISTING PLUMBING EQUIPMENT OR PIPING WHICH IS NO LONGER REQUIRED SHALL BE REMOVED

DIVISION, OR REPAIR TO THE SATISFACTION OF THE CONSULTANT.

- C. ENSURE THAT ALL EXISTING PLUMBING PIPING OR SYSTEMS, IN AREAS OUTSIDE THE AREAS OF THIS
- F. BE RESPONSIBLE AND PAY FOR ANY DAMAGE TO THE BASE BUILDING INCURRED BY WORK OF THIS

- G. CARRY OUT THE WORK WITH MINIMUM OF NOISE, DUST AND DISTURBANCE
- 1.19 UNIT PRICES A. SUBMIT THE FOLLOWING LIST OF UNIT PRICES (FURNISH AND INSTALL):
- 1. FIXTURES \$ FOR EACH TYPE IN THE DOCUMENTS (INCLUDE ROUGHING)
- 2. PIPING \$/LF FOR EACH SIZE AND TYPE REQUIRED (INCLUDE HANGERS & INSULATION WHERE

- 2.01 PIPING AND FITTINGS
- A. SANITARY DRAINAGE AND VENT PIPING, STORM DRAINAGE
- ABOVEGROUND CAST IRON HUBLESS PIPE AND FITTINGS COMPLYING WITH CAST IRON CAST IRON OIL PIPE (CISPI) STANDARD 301 AND/OR ASTM A-888 AND SHALL BE MADE IN THE UNITED STATES, AND MARKED WITH THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE AND LISTED BY NSF INTERNATIONAL. ALL PIPE AND FITTINGS SHALL BE BY THE SAME MANUFACTURER.
- JOIN HUBLESS CAST-IRON SOIL PIPING ACCORDING TO CISPI 310 AND CISPI'S "CAST IRON SOIL PIPE AND FITTINGS HANDBOOK" FOR HUBLESS-COUPLING JOINTS, USE HEAVY DUTY SHIELDED COUPLINGS HAVING NEOPRENE GASKET CONFORMING TO ASTM C 1540 WITH 3" WIDE 304 STAINLESS STEEL CORRUGATED SHIELD AND FOLIR STAINLESS STEEL BANDS FOR SIZES 1-1/2" THROUGH 4" (SIX STAINLESS STEEL BANDS FOR SIZES 5" AND LARGER). ALL COUPLINGS SHALL BE ANACO-HUSKY SERIES HD 2000 HEAVY DUTY OR APPROVED EQUAL
- HORIZONTAL PIPE AND FITTINGS 5" DIA. AND LARGER MUST BE SUITABLY BRACED TO PREVENT HORIZONTAL MOVEMENT. THIS MUST BE DONE AT EVERY BRANCH OPENING OR CHANGE OF DIRECTION BY THE USE OF BRACES, BLOCKS, RODDING, OR OTHER SUITABLE METHOD, IN ORDER TO PREVENT MOVEMENT OR JOINT SEPARATION PER CHAPTER IV OF THE CISPI HANDBOOK.
- . <u>UNDERGROUND</u> CAST IRON HUB AND SPIGOT SERVICE WEIGHT PIPE AND FITTINGS COMPLYING WITH CISPI STANDARD HS-67 AND/OR ASTM A-74-66 AND SHALL BE MADE IN THE UNITED STATES, AND MARKED WITH THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE AND LISTED BY NSF INTERNATIONAL. ALL PIPE AND FITTINGS SHALL BE BY THE SAME MANUFACTURER. JOIN HUB-AND-SPIGOT, CAST-IRON SOIL PIPING WITH GASKETED JOINTS ACCORDING TO CISPI'S "CAST IRON SOIL PIPE AND FITTINGS HANDBOOK" FOR COMPRESSION JOINTS. JOINTS SHALL BE MADE WITH PUSH-ON NEOPRENE RUBBER COMPRESSION GASKET CONFORMING TO CISPI

B. DOMESTIC HOT AND COLD WATER PIPING, INDIRECT WASTE PIPING

- 1. PIPING (SOLDERED JOINTS): TYPE L HARD COPPER TUBE, DRAWN TEMPER, COMPLYING WITH ASTM
- 2. FITTINGS (SOLDERED JOINTS): WROUGHT COPPER SOLDER JOINT PRESSURE TYPE FITTINGS COMPLYING WITH ASME B 16 22
- 3. SOLDER FILLER METALS: ALLOY SN95 OR ALLOY SN94: TIN (SN) APPROXIMATELY 95%, AND SILVER (AG) APPROXIMATELY 5%, HAVING 0.10% MAXIMUM LEAD (PB) CONTENT.

4 SOLDERING FLUX: APPLY ASTM B 813 WATER-FLUSHABLE FLUX TO END OF TUBE. JOIN COPPER

- TUBE AND FITTINGS ACCORDING TO ASTM B 828 OR CDA'S "COPPER TUBE HANDBOOK. 5. ALL EXPOSED PIPING SHALL BE CHROME PLATED BRASS. ALL PIPE PASSING THROUGH WALLS, FLOORS, CEILINGS, AND PARTITIONS SHALL BE PROVIDED WITH CHROME PLATED BRASS
- ESCUTCHEONS HELD IN PLACE WITH SET SCREWS. C. FUEL GAS PIPING

PUMP DISCHARGE.

2.03 VALVE TAGS AND CHART

- 1. PIPING: ASTM A 53/A 53M, BLACK STEEL, SCHEDULE 40, TYPE E OR S, GRADE B.
- 2. MALLEABLE-IRON THREADED FITTINGS: ASME B16.3. CLASS 150. STANDARD PATTERN, PIPING UP TO 4" DIAMETER AND BELOW 1/2 PSIG 3 WROUGHT-STEEL WELDING FITTINGS: STM A 234/A 234M FOR BUTT WELDING AND SOCKET WELDING COMPLY WITH AWS D10 12/D10 12M FOR WELDING MATERIALS APPROPRIATE FOR WALL THICKNESS

AND CHEMICAL ANALYSIS OF STEEL PIPE BEING WELDED. PIPING 4" AND LARGER AT ANY PRESSURE

- AND ANY SIZE PIPING WITH GAS PRESSURE ABOVE ½ PSIG SHALL BE WELDED. 4. PROTECTIVE COATING FOR UNDERGROUND PIPING: FACTORY-APPLIED, THREE-LAYER COATING OF EPOXY, ADHESIVE, AND PE. JOINT COVER KITS: EPOXY PAINT, ADHESIVE, AND HEAT-SHRINK PE
- 5. WHERE PIPING IS EXPOSED TO EXTERIOR, PROVIDE WITH FACTORY APPLIED PROTECTIVE COATING OR USE SCH. 40 GALVANIZED STEEL PIPE AND FITTINGS. AFTER GALVANIZED PIPING THREADS HAVE BEEN CUT AND FITTINGS CONNECTED PAINT THE EXPOSED THREADS AND PIPING WITH AN EXTERIOR, NON-RUSTING PAINT TO PROTECT THE AREA OF PIPING WHERE THE GALVANIZATION HAS
- BEEN REMOVED D. EJECTOR AND SUMP PUMP DISCHARGE PIPING (IF INSTALLED)
- 1. SCHEDULE 40 GALVANIZED STEEL PIPE ASTM A 53. GALVANIZED CAST IRON DRAINAGE FITTINGS ASME B 16.2, AND THREADED JOINTS OR GROOVED-END STEEL PIPE, GROOVED-JOINT SYSTEM FITTINGS AND COUPLINGS, AND GROOVED JOINTS.

3. INSTALL SPRING LOADED, SILENT CHECK VALVE BETWEEN PUMP AND SHUTOFF VALVE ON EACH

- 2. INSTALL CHECK VALVE AND GATE VALVE ON EACH PUMP DISCHARGE.
- 2.02 VALVES DOMESTIC WATER A. SHUT-OFF VALVES - 3" AND SMALLER: TWO PIECE, FULL PORT, LEAD-FREE BRONZE BALL LVES, 600 PSI NON-SHOCK CWP, NSF/ANSI-61-8 WITH THE CAPABILITY OF ACCEPTING EXTENDED OPERATING HANDLES. MILWAUKEE MODEL UPBA100S FOR THREADED ENDS OR UPBA150SF FOR
- SOLDERED ENDS.PROVIDE EXTENDED OPERATING HANDLE WHEN INSTALLING ON INSULATED PIPE B. SHUT-OFF VALVES - 3" AND LARGER: LEAD-FREE BRONZE GATE VALVE, NON-RISING STEM, SOLID WEDGE, 300 PSI NON-SHOCK CWP, NSF/ANSI-61-8. NIBCO T-113-LF FOR THREADED ENDS OR S-113-LF FOR SOLDER ENDS.
- C. <u>CHECK VALVES 2" AND SMALLER:</u> LEAD-FREE BRONZE, Y-PATTERN, HORIZONTAL SWING, WITH RENEWABLE SEAT AND DISC. 200 PSI CWP NON-SHOCK, NSF/ANSI-61-8. NIBCO T-413-Y-LF FOR THREADED ENDS OR S-413-Y-LF FOR SOLDER ENDS.
- D. CHECK VALVES 2-1/2" & 3": LOW LEAD, BRONZE BODY, SWING CHECK ALVE, 200 PSIG, NON-SHOCK, ASME B16.1, MILWAUKEE UP967 FOR THREADED ENDS, UP968 FOR E. <u>CHECK VALVES ON PUMP DISCHARGE:</u> SILENT CECK VALVE, FLANGED, CLASS 125, STAINLESS STEEL
- SPRING & SCREWS, CAST IRON BODY, MILWAUKEE MODEL 1800. F. SOLENOID VALVE - DE-ENERGIZED CLOSED, ASCO MODEL #8210G003, 120 V., WITH BRONZE BODY.
- DUCING VALVE WITH STRAINER. VALVE SHALL BE WATTS SERIES LF223S. H. PRESSURE REDUCING VALVE - 21/2" AND 3": LEAD FREE, ASSE 1003 LISTED, DIRECT ACTING PRESSURE EDUCING VALVE WITH STRAINER. VALVE SHALL BE WATTS SERIES LF223BS
- A. PROVIDE FOR EACH VALVE, EXCEPT STOP VALVES AT FIXTURES, A 2 INCH DIAMTER BRASS TAG WITH 1 INCH HIGH NUMERAL STAMPED THEREON. SECURED TO THE VALVE BY MEANS OF BRASS S-HOOK OR BRASS CHAIN FACH SYSTEM TO HAVE A LETTER DESIGNATION AS WELL
- B. FURNISH AN APPROVED, NEATLY DRAWN VALVE CHART, PROPERLY FRAMED, SHOWING THE USE AND LOCATION OF EACH VALVE THAT IS TAGGED. 2.04 HANGERS AND SUPPORTS
- A. ALL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND STATE CODES. B. EXCEPT AS OTHERWISE INDICATED, PROVIDE FACTORY FABRICATED HANGERS, CLAMPS, RODS, BUILDING ATTACHMENTS, INSULATION SADDLES AND INSULATION SHIELDS SHALL BE UL ISTED FM GLOBAL APPROVED AND COMPLYING WITH ANSI MSS-SP-58. CONTRACTOR SHALL SELECT AND APPLY IANGERS AND SUPPORTS IN ACCORDANCE WITH MSS-SP-69
- C. ALL INSULATED HORIZONTAL PIPING LARGER THAN 1" DIAMETER SHALL BE HUNG WITH ADJUSTABLE GALVANIZED STEEL CLEVIS HANGERS, COOPER B-LINE FIG. B3100. ALL INSULATED COPPER PIPING 3/4" DIAMETER OR SMALLER SHALL BE HUNG WITH ADJUSTABLE SWIVEL HANGER FOR COPPER TUBING. COOPER B-LINE B3170CT.
- PIPE SUPPORT POINTS (WHETHER HANGERS OR STRUTS). INSULATION INSERT SHALL BE COOPER B-LINE FIG. B338, 360 DEG. CALCIUM SILICATE SHIELD, HANGERS SHALL NOT PENETRATE INSULATION. WHERE INSULATED PIPING IS SUPPORTED WITH CLEVIS HANGERS OR SWIVEL HANGERS COOPER B-LINE FIG. B3154 PRE-GALVANIZED INSULATION SHIELDS MAY BE USED.

D. FOR ALL INSULATED HORIZONTAL PIPING PROVIDE CRUSH RESISTANT INSULATION INSERTS AT ALL

E. ALL HORIZONTAL CAST IRON OR UNINSULATED STEEL PIPING SHALL BE HUNG WITH ADJUSTABLE GALVANIZED STEEL CLEVIS HANGERS, COOPER B-LINE FIG. B3100 PRE-GALVANIZED STANDARD CLEVIS

F. VERTICAL PIPING SHALL BE SUPPORTED BY MEANS OF RISER CLAMPS. RISER CLAMPS SHALL FIT

CLAMPS OR FOUR BOLT, EXTRA HEAVY GALVANIZED STEEL RISER CLAMPS, FOR COPPER TUBING USE CARBON STEEL COPPER PLATED RISER CLAMP. G. RODS FOR PIPE HANGERS SHALL BE CONTINUOUS THREADED ROD, GALVANIZED STEEL SIZED FOR THE

EXACT PIPE SIZE FOR BARE PIPES. FOR CAST IRON PIPES USE TWO BOLT, GALVANIZED BLACK STEEL

I. ATTACH HANGER RODS TO THE BUILDING ONLY IN A MANNER APPROVED BY THE ARCHITECT. DO NOT HANG PIPING FROM DUCTWORK OR OTHER PIPING. CHAIN STRAPS, PERFORATED BARS OR WIRE HANGERS SHALL NOT BE PERMITTED.

IRON SOIL PIPE INSTITUTE HANDBOOK.

H. C-CLAMPS MUST BE INSTALLED WITH RETAINING STRAPS.

LOAD REQUIRED.

- J. INTERVALS OF SUPPORTS 1. ALL HORIZONTAL CAST IRON PIPING SHALL BE SUPPORTED ON FIVE FOOT CENTERS AND AT ALL JOINTS. IN ADDITION ALL CAST IRON 'NO-HUB' PIPING AND FITTINGS 5" DIA. AND LARGER MUST BE SUITABLY BRACED TO PREVENT HORIZONTAL MOVEMENT. THIS MUST BE DONE AT EVERY BRANCH OPENING OR CHANGE OF DIRECTION BY THE USE OF BRACES, BLOCKS, RODDING, OR OTHER
- 2. ALL HORIZONTAL STEEL SCREWED PIPING SHALL BE SUPPORTED ON TEN FOOT CENTERS.

SUITABLE METHOD, TO PREVENT MOVEMENT OR JOINT SEPARATION PER CHAPTER IV OF THE CAST

- 3. ALL HORIZONTAL COPPER TUBING SHALL BE SUPPORTED BY HANGERS NOT OVER SIX FEET APART FOR TUBING 1-1/4" DIA. AND SMALLER AND NOT OVER TEN FEET APART FOR TUBING 1-1/2" AND
- K. PROVIDE SEISMIC RESTRAINTS FOR ALL PIPING SYSTEMS AND EQUIPMENT AS REQUIRED BY LOCAL

- 2.05 INSULATION
- A. DOMESTIC COLD WATER, HOT WATER, HOT WATER RECIRC. PIPING, HORIZONTAL STORM PIPING:

AND SMOKE HAZARD RATING NOT TO EXCEED A FLAME SPREAD OF 25 OR SMOKE DEVELOPMENT OF

- 1 JOHNS MANVILLE MICRO-LOK HP FIRER GLASS PIPE INSULATION WITH FACTORY APPLIED ALL SERVICE VAPOR-RETARDER JACKET WITH SELF-SEALING CLOSURE LAP. COMPLYING WITH ASTM C547, ASTM C585, ASTM C1136 AND ASTM E84, COMPOSITE FHC 25/50 LISTED AND LABELED. FIRE
- 2. FITTINGS AND VALVES TO BE COVERED WITH JOHNS MANVILLE ZESTON 2000 SERIES STANDARD
- GAUGE PVC FITTING COVERS WITH HI-LO TEMPERATURE FIBER GLASS INSERTS. 3. PROVIDE 1" THICK INSULATION FOR DOMESTIC WATER PIPING AND HORIZONTAL STORM PIPING.
- B. INSULATE ALL EXPOSED DRAINAGE PIPING INCLUDING HOT, COLD AND TEMPERED WATER SUPPLIES UNDER LAVATORIES OR SINKS, INSTALLED COVER SHALL MEET ADA 4.19.4, ADAAG 606.5, ICC/ANSI A117.1 606 6 OR GSA & DOD'S ARA 606 5 REQUIREMENT TO "PROTECT AGAINST CONTACT - NO SHARP OR ABRASIVE SURFACES". PIPE COVER MATERIAL TO BE 1/8" THICK PVC WITH ANTIMICROBIAL. ANTIFUNGAL AND U/V INHIBITED PROPERTIES. PLUMBEREX PRO-EXTREME OR APPROVED EQUAL
- 2.06 SLEEVES AND FIRE STOPPING
- A. PROVIDE SLEEVES FOR ALL PIPES PASSING THROUGH FLOORS, WALLS AND PARTITIONS. B. SLEEVES THROUGH WALLS, AND WHERE SERVING EXPOSED PIPE PENETRATING FLOORS SHALL BE
- C. SLEEVES WITHIN FURRED OUT ENCLOSURE, GYPSUM BOARD PARTITIONS AND BLOCK WALLS SHALL BE D. ALL SLEEVES THROUGH RATED WALLS OR PARTITIONS SHALL FORM A U.L. CLASSIFIED FIRESTOP
- CAPABLE OF RETURNING THE WALL OR PARTITION BACK TO ITS UNPENETRATED FIRE RESISTANCE. E. FIRESTOPPING CAULK SHALL BE SIMILAR TO 3M CP 25WB + CAULK. FIRESTOPPING WRAP SHALL BE SIMILAR TO 3M FS-195 + WRAP/STRIP.
- A. INSTALL ESCUTCHEONS ON BOTH SIDES OF CONSTRUCTION WHEREVER PIPES PASS THROUGH WALLS, FLOORS. PARTITIONS OR CEILINGS. ESCUTCHEONS SHALL BE HELD IN PLACE WITH SET SCREWS. TAKE SPECIAL CARE TO PROTECT THE ESCUTCHEONS DURING THE COURSE OF CONSTRUCTION.
- B. ESCUTCHEON APPLICATION SCHEDULE 1. FINISHED SPACES SHALL BE POLISHED BRASS

2.07 ESCUTCHEONS

2. UNFINISHED SPACES SHALL BE PLAIN BRASS OR CAST IRON.

AND AT A MINIMUM OF ONCE IN EACH ROOM

- 2.08 PIPE IDENTIFICATION A. INSTALL MANUFACTURED PIPE MARKERS ON EACH PIPING SYSTEM, INSTALL WITH FLOW INDICATION ARROWS SHOWING DIRECTION OF FLOW, LOCATE PIPE MARKERS EVERY TWENTY FEET ON EACH PIPE
- B COMPLY WITH ASME A13.1 'SCHEME FOR THE IDENTIFICATION OF PIPING SYSTEMS' FOR LETTER SIZE LENGTH OF COLOR FIELD, COLORS, AND VIEWING ANGLES OF IDENTIFICATION DEVICES FOR PIPING 2.09 PLUMBING FIXTURES AND TRIM

B. REFER TO ARCHITECT'S DRAWINGS FOR SPECIFICATIONS OF FIXTURES AND FAUCETS.

- A. FURNISH AND INSTALL NEW PLUMBING FIXTURES AND TRIM WHERE SHOWN ON THE CONTRACT DRAWINGS. THE ARCHITECT'S INTERIOR FINISH DRAWINGS SHALL BE FOLLOWED FOR THE LOCATION OF
- C. FIXTURES SHALL COMPLY WITH ANSI STANDARDS AND ADA REQUIREMENTS AND SHALL HAVE MAXIMUM FLOW RATES AS REQUIRED BY LOCAL AND STATE WATER CONSERVATION REQUIREMENTS.

D. EACH FIXTURE SUPPLY CONNECTION SHALL BE PROVIDED WITH INDIVIDUAL SHUT-OFF OR STOP

- E. ALL TRIM, FITTINGS, TRAPS, ETC EXPOSED TO VIEW AT FIXTURES SHALL BE HEAVY CHROME PLATED FINISH. PROVIDE ONE PIECE CAST BRASS CHROMIUM-PLATED ESCUTCHEONS WITH SET SCREWS FOR PIPES PENETRATING THE WALL.
- F. PROVIDE NECESSARY SUPPORTS, CARRIERS, BRACKETS, PLATES ETC, FOR SECURING FIXTURES RIGIDLY IN PLACE. G. PRIOR TO FINAL ACCEPTANCE BY THE TENANT/OWNER ADJUST ALL FAUCETS AND FLUSH VALVES FOR
- PROPER FLOW IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION REQUIREMENTS AND RECOMMENDATIONS. H. PLUMBING CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL PLUMBING FIXTURES FROM DAMAGE.
- UNDER LAVATORIES OR SINKS TO COMPLY WITH ADA REQUIREMENTS. SEE INSULATION SECTION FOR SPECIFICATION OF MATERIAL J. WATER CLOSETS - FOR WALL HUNG FIXTURE PROVIDE APPROPRIATE CARRIER, JAY R. SMITH OR EQUAL

I INSULATE ALL EXPOSED DRAINAGE PIPING INCLUDING HOT COLD AND TEMPERED WATER SUPPLIES

- A. PERFORM THE WORK AT SUCH TIME AND IN SUCH MANNER AS TO MINIMIZE INTERFERENCE WITH THE BUILDING'S NORMAL OPERATION, NOTIFY BUILDING MANAGEMENT REPRESENTATIVES IN ADVANCE WORK, SCHEDULE SUCH SERVICE OUTAGE OR INTERRUPTION, ONLY AFTER HAVING RECEIVED
- DIRECTED SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE. B. OPENINGS AROUND PIPING PENETRATIONS THROUGH FIRE RESISTANCE RATED WALLS, PARTITIONS, FLOORS, OR CEILINGS SHALL BE FIRE STOPPED USING APPROVED METHODS. SEALANT SHALL BE RATED FOR 3 HOURS.

C. PRIOR TO ANY CHASING, CHOPPING, OR CORE DRILLING BEING PERFORMED, THE CONTRACTOR SHALL

FIELD INVESTIGATE CONDITIONS AND COORDINATE WITH ALL APPROPRIATE TRADES TO ENSURE THAT

WORK WILL BE IN HARMONY WITH OTHER WORK AND NOT AFFECTED ANY EXISTING BUILDING SYSTEMS.

APPROVAL OF DATE, HOUR, AND TIME INTERVAL REQUIRED THEREOF. SCHEDULE OF WORK AS

X-RAY SLABS IF REQUIRED. THIS WORK MUST BE APPROVED BY BUILDING MANAGEMENT PRIOR TO PROCEEDING, ALL CORING/CHASING WILL BE DONE ON OVERTIME D. THE CONTRACTOR SHALL TAKE STATIC AND RESIDUAL PRESSURE READINGS AT ALL NEW POINTS OF CONNECTION TO THE BASE BUILDING DOMESTIC WATER SYSTEM. THE RESIDUAL PRESSURE READING

SHALL BE TAKEN WITH THE BASE BUILDING SHUT-OFF VALVE IN THE FULL OPEN POSITION. ALL

RESULTING PRESSURES AND FLOWS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.

PROCUREMENT AND INSTALLATION OF PLUMBING FIXTURES AND APPLIANCES SHALL OCCUR ONLY AFTER THE FLOW TEST RESULTS AND ANY PRESSURE/OPERATIONAL CONCERNS HAVE BEEN REVIEWED BY THE ENGINEER.

3.02 GENERAL INSTALLATION REQUIREMENTS

- A. RUN AND ARRANGE PIPING APPROXIMATELY AS INDICATED ON THE DRAWINGS AND AS DIRECTED DURING INSTALLATION, AS STRAIGHT AND DIRECT AS POSSIBLE, FORMING RIGHT ANGLES OR PARALLEL LINES WITH BUILDING WALLS AND OTHER PIPES, AND NEATLY SPACED. PIPING SHALL BE INSTALLED SO
- THAT EVERY PORTION OF THE SYSTEM CAN BE ENTIRELY DRAINED
- B. MATERIALS AND COMPONENTS: INSTALL LEVEL, PLUMB, AND PARALLEL AND PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS, UNLESS OTHERWISE INDICATED.
- COMPONENTS. CONNECT FOR EASE OF DISCONNECTING, WITH MINIMUM INTERFERENCE WITH OTHER

C. EQUIPMENT: INSTALL TO FACILITATE SERVICE, MAINTENANCE, AND REPAIR OR REPLACEMENT OF

- D. DO NOT INSTALL PIPES OR OTHER APPARATUS IN A MANNER WHICH MAY INTERFERE WITH THE FULL SWING OF ANY DOOR.
- E. THE ARRANGEMENT, POSITION AND CONNECTION OF PIPES INDICATED ON THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE BUT THE RIGHT IS RESERVED BY THE OWNER TO CHANGE LOCATIONS AND ELEVATIONS TO ACCOMMODATE CONDITIONS WHICH MAY ARISE DURING THE PROGRESS OF THE WORK, WITHOUT ADDITIONAL COMPENSATION TO THE CONTRACTOR FOR SUCH
- CHANGES, PROVIDED THAT NO ADDITIONAL EQUIPMENT OR FIXTURES ARE REQUIRED AND CHANGES ARE REQUESTED PRIOR TO INSTALLATION. F. REAM ALL PIPE SMOOTH BEFORE INSTALLATION. DO NOT BEND, SPLIT, FLATTEN OR DAMAGEE PIPE IN
- ANY WAY. ANY PIPE CUT, DENTED OR DAMAGED SHALL BE REPLACED BY THIS CONTRACTOR WITHOUT ADDITIONAL EXPENSE TO THE OWNER.
- G. THE DRAWINGS ARE GIVEN AS A GUIDE ONLY, AND THEREFORE, DO NOT RELIEVE THIS CONTRACTOR FROM PROVIDING AND INSTALLING ALL EQUIPMENT NECESSARY TO COMPLETE THE INSTALLATION ACCORDING TO THE REQUIREMENTS OF LOCAL AND STATE PLUMBING AND BUILDING CODES.
- A. THE PLUMBING CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS WITH THE LOCAL BUILDING DEPARTMENT AND BE RESPONSIBLE FOR OBTAINING FNAL APPROVALS WITH ALL AUTHORITIES HAVING

3.03 BUILDING DEPARTMENT PERMITS AND CERTIFICATES

MANAGER AND LANDLORD FOR THEIR RECORDS.

- 3.04 CUTTING AND PATCHING A. DO ALL CUTTING NECESSARY FOR THE INSTALLATION OF PLUMBING WORK. ACCURATELY LAYOUT WORK FOR WHICH CUTTING IS REQUIRED, SO AS TO AVOID UNNECESSARY LARGE OPENINGS. CUTTING
- OF BEAMS, JOISTS, FLOORS OR WALLS OF THE BUILDING WILL NOT BE PERMITTED EXCEPT AFTER RECEIVING APPROVAL OF THE BUILDING MANAGER. B. ROUGH PATCHING WILL BE DONE BY THIS CONTRACTOR IN A MANNER TO ACCOMMODATE FINISHED PATCHING WORK, FINISHED PATCHING WILL BE DONE "UNDER ANOTHER SECTION OF THE

JURISDICTION. PROVIDE A COPY OF ALL REQUIRED APPLICATIONS AND PERMITS TO THE PROPERTY

SPECIFICATIONS.

- 3.05 PROTECTION A. CONTRACTOR SHALL BE RESPONSIBLE FOR HIS WORK AND EQUIPMENT UNTIL FINALLY INSPECTED. TESTED AND ACCEPTED. MATERIALS AND EQUIPMENT SHALL BE CAREFULLY STORED. WHICH ARE NOT IMMEDIATELY INSTALLED. AFTER DELIVERY TO SITE. CLOSE EXPOSED PARTS OF THE WORK WITH TEMPORARY COVERS, OR PLUGS DURING CONSTRUCTION, TO PREVENT ENTRY OF MOISTURE OR
- OBSTRUCTING MATERIALS B. PROTECT THE WORK AND MATERIAL OF OTHERS FROM DAMAGE INSTALLED AS PART OF THIS CONTRACT. RESTORE ANY WORK DAMAGED AND BE RESPONSIBLE FOR ALL CURRENT WORK AND ASSOCIATED COSTS

- A. PROVIDE ALL LABOR AND MATERIAL TO PERFORM ALL REQUIRED TESTS IN ACCORDANCE WITH THE LOCAL AND STATE PLUMBING CODES. TESTS SHALL BE PERFORMED IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE AND ALL OTHER AUTHORITIES HAVING JURISDICTION.
- B. NOTIFY THE OWNER'S REPRESENTATIVE A MINIMUM OF 48 HOURS IN ADVANCE OF PERFORMING THE TESTING. IN ORDER THAT ARRANGEMENTS CAN BE MADE FOR THEIR TO WITNESS THE TESTS.
- C. ALL DEFECTIVE WORK SHALL BE PROMPTLY REPAIRED OR REPLACED AND THE TESTS REPEATED UNTIL ACCEPTABLE PASSING RESULTS HAVE BEEN ACHIEVED D. ANY DAMAGE RESULTING FROM TESTING SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER.
- E. SUBMIT ALL TESTING RESULTS TO THE OWNER F. FLUSHING AND DISINFECTION OF DOMESTIC WATER PIPING

CHEMICAL CLEANING AND PRETREATMENT

2. CLEANING OF PIPING SHALL BE PERFORMED IN THE PRESENCE OF A BUILDING REPRESENTATIVE. 3. PROVIDE ALL DISPERSANTS, SCALE INHIBITORS AND CORROSION INHIBITORS AS REQUIRED FOR

4. ALL CHEMICALS TO BE USED FOR PIPE CLEANING SHALL BE APPROVED BY THE BASE BUILDING

CLEANING AND TREATING ALL PIPING SYSTEMS. CHROMATES SHALL NOT BE USED.

- CHEMICAL TREATMENT COMPANY. 5. FLUSH PIPING SYSTEMS WITH THE APPROVED CLEANING CHEMICAL TO REMOVE PIPE DOPE, SLUSHING COMPOUNDS, CUTTING OILS AND OTHER LOOSE EXTRANEOUS MATERIALS. SEAL ENDS
- 6. THE CONTRACTOR SHALL
- 8. CHECK THAT THE CLEANING SOLUTION IS ACTUALLY IN EACH SYSTEM 9. SATISFY WHEN TO FLUSH THE SYSTEM.

7. SATISFY EACH CHEMICAL HAS THE PROPER FEED RATES FOR CLEANING AND PRETREATMENT OF

REMOVED FROM EACH SYSTEM AND TEST TO ENSURE PH OF NEW SYSTEM IS WITHIN 0.5 OF FRESH 11. BLOCK MODULATING VALVES, ZONE VALVES AND OTHER SYSTEM RESTRICTIONS. PROVIDE BY PASS

CHILLERS, COILS, HEAT EXCHANGERS, ETC. FROM THE CLEANING PROCESS.

PIPING AND VALVING TO ISOLATE NEW AND EXISTING TO BE RE-USED EQUIPMENT SUCH AS

12 PROVIDE PORTABLE PLIMPS TO CIRCUL ATE WATER FOR CLEANING PLIRPOSES AT RESPECTIVE

STEAM AFTER CLEANING AND BEFORE TRAPS ARE INSTALLED. DRAIN ENTIRE SYSTEM.

FLOWS FOR FOUR (4) HOURS. REMOVE AND CLEAN STRAINERS. BLOW OFF LOW POINTS WITH

10. CHECK EACH SYSTEM FOLLOWING FLUSHING TO ENSURE CLEANING CHEMICALS HAVE BEEN

13. CHEMICAL USED FOR CLEANING OF SYSTEMS SHALL COMPLY WITH THE RECOMMENDATIONS OF THE MANUFACTURERS OF THE MAJOR COMPONENTS IN THE SYSTEM AND SHALL BE APPROVED FOR

14. UPON INITIAL FILL (FOLLOWING SYSTEM FLUSHING) THE APPROVED CHEMICALS WHICH PROVIDE A

PROTECTIVE COATING TO PREVENT OXIDATION OF THE CLEANED SYSTEM SHALL BE ADDED.

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10/29/21 ISSUED FOR REVIEW

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PLUMBING

SPECIFICATIONS

NOT TO SCALE 10/XX/2021

G003-03-017

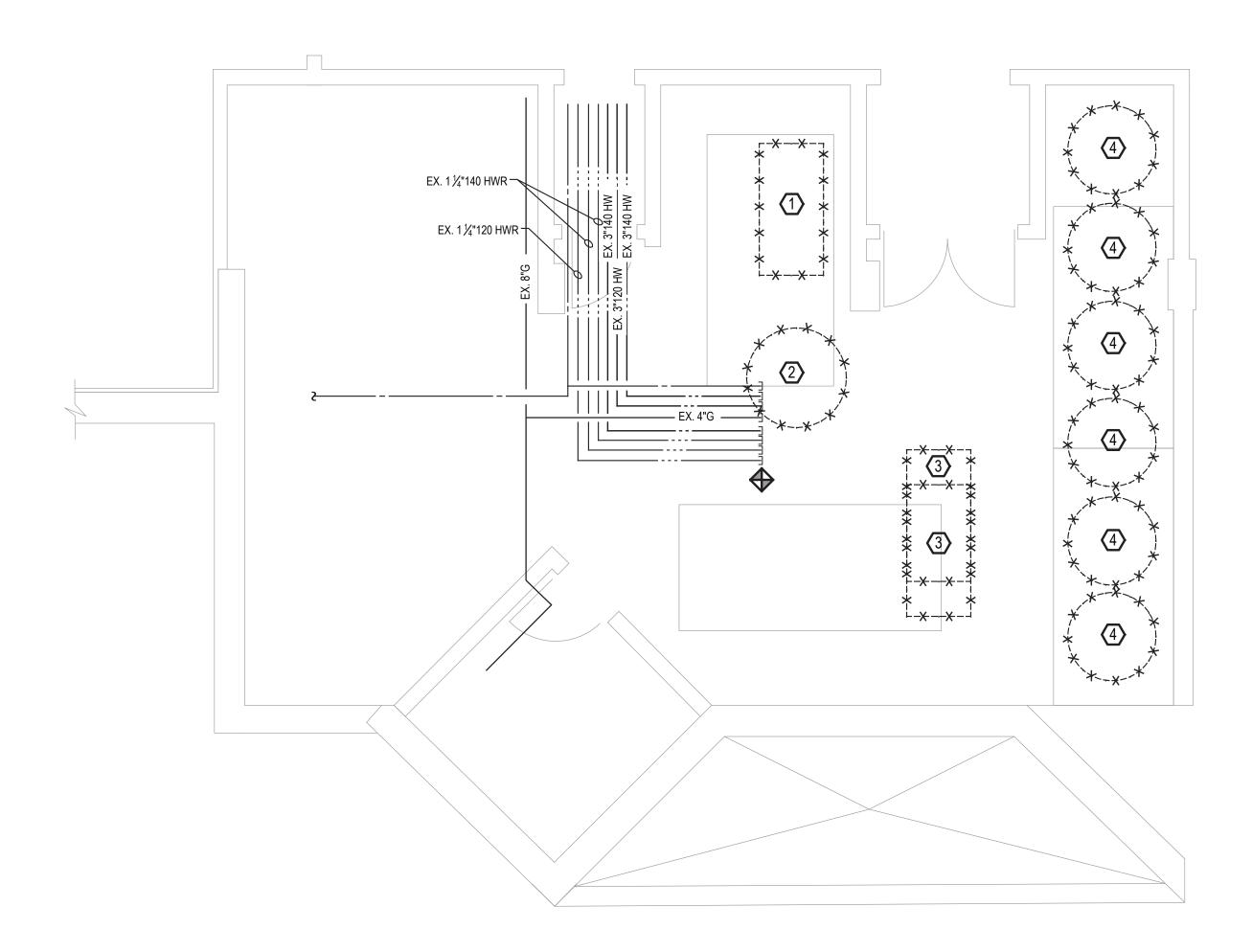
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TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS

AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 ENERGY CONSERVATION

THIS PLAN IS APPROVED ONLY FOR THE WORK ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE

CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES



PLUMBING DEMOLITION NOTES

- 1. GENERAL
- A. PRIOR TO PROPOSAL SUBMISSION, THIS CONTRACTOR SHALL VISIT THE SITE TO REVIEW THE EXISTING CONDITIONS ASSOCIATED WITH THE SCOPE OF WORK AND ADJACENT AREAS TO ASCERTAIN THE DIFFICULTIES WHICH WILL AFFECT THE EXECUTION OF THE WORK OF THIS CONTRACT.
- SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT THE ABOVE SITE EXAMINATION HAS BEEN MADE AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE.
- DEMOLITION WORK SHALL INCLUDE ALL MATERIALS, LABOR, EXTENSIONS, CONNECTIONS, CUTTING, REPAIRING, ADAPTING AND OTHER PLUMBING WORK REQUIRED TO MAINTAIN SERVICE PENDING THE COMPLETION OF THE PERMANENT WORK. COORDINATE THE EXTENT OF DEMOLITION WORK WITH THE ARCHITECT AND BUILDING MANAGEMENT.
- 2. SCOPE OF WORK
- A. ALL EXISTING WORK REQUIRED TO REMAIN BUT INTERFERING WITH PROPOSED NEW PLUMBING (AS WELL A ELECTRICAL, MECHANICAL AND GENERAL CONSTRUCTION WORK) SHALL BE RELOCATED AND RECONNECTE USING MATERIALS CONFORMING TO STANDARDS OF THIS CONTRACT.
- B. REMOVE BASE BUILDING PIPING AS INDICATED BELOW:
 - REMOVE ALL ABANDONED BASE BUILDING PIPING BACK TO THE EXISTING WET COLUMNS OR SHAFTS, OR AS NOTED ON DRAWINGS.
 - CONTRACTOR TO CONTACT BUILDING MANAGEMENT AND TENANT REGARDING REMOVAL SCOPE OF WORK TO MAINTAIN CONTINUITY OF ALL SERVICES TO ALL TENANTS WHO ARE TO REMAIN OPERATIONAL AND NOT BE AFFECTED BY DEMOLITION WORK.
 - ALL EXISTING BUILDING VALVES FOR DOMESTIC WATER MAINS AT SHAFTS ARE TO REMAIN.
- C. PROVIDE ADDITIONAL SUPPORT FOR ALL EXISTING PIPING TO REMAIN WHICH ARE AFFECTED BY DEMOLITION OF EXISTING CEILING AND PARTITIONS.
- D. ALL MATERIALS AND EQUIPMENT SHALL BE DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS AND ENVIRONMENTAL REGULATIONS.
- COORDINATE WITH OWNER TO DETERMINE WHETHER EQUIPMENT IS TO BE TURNED OVER FOR FUTURE USE AND STORED IN THEIR ASSOCIATED STORAGE LOCATIONS.
- CONTRACTOR TO DISCONNECT ALL ELECTRICAL CIRCUITING AND CONTROLS AS NECESSARY.

PLUMBING KEY NOTES

- CONTRACTOR SHALL DECOMMISSION AND REMOVE EXISTING GAS-FIRED WATER HEATER. DISCONNECT AND REMOVE ALL EXISTING CW, HW & HWR PIPING FROM THE WATER HEATER TO THE STORAGE TANK.
- CONTRACTOR SHALL DECOMMISSION AND REMOVE EXISTING 750 GALLONS HOT WATER STORAGE TANK. DISCONNECT AND REMOVE ALL EXISTING CW, HW & HWR PIPING FROM THE STORAGE TANK TO POINT OF DISCONNECTION TO THE EXISTING.
- CONTRACTOR SHALL DECOMMISSION AND REMOVE EXISTING TWO (2) GAS-FIRED WATER HEATER.
 DISCONNECT AND REMOVE ALL EXISTING CW, HW & HWR PIPING FROM THE WATER HEATER TO THE STORAGE
- CONTRACTOR SHALL DECOMMISSION AND REMOVE EXISTING SIX (6) 500 GALLONS HOT WATER STORAGE TANK. DISCONNECT AND REMOVE ALL EXISTING CW, HW & HWR PIPING FROM THE STORAGE TANK TO POINT OF DISCONNECTION TO THE EXISTING.

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PLUMBING BASEMENT FLOOR DEMOLITION PART PLAN

10/29/21 ISSUED FOR REVIEW

1/2"=1'-0" 10/XX/2021 Proj. Manager: RR

> G003-03-017 Drawing No:

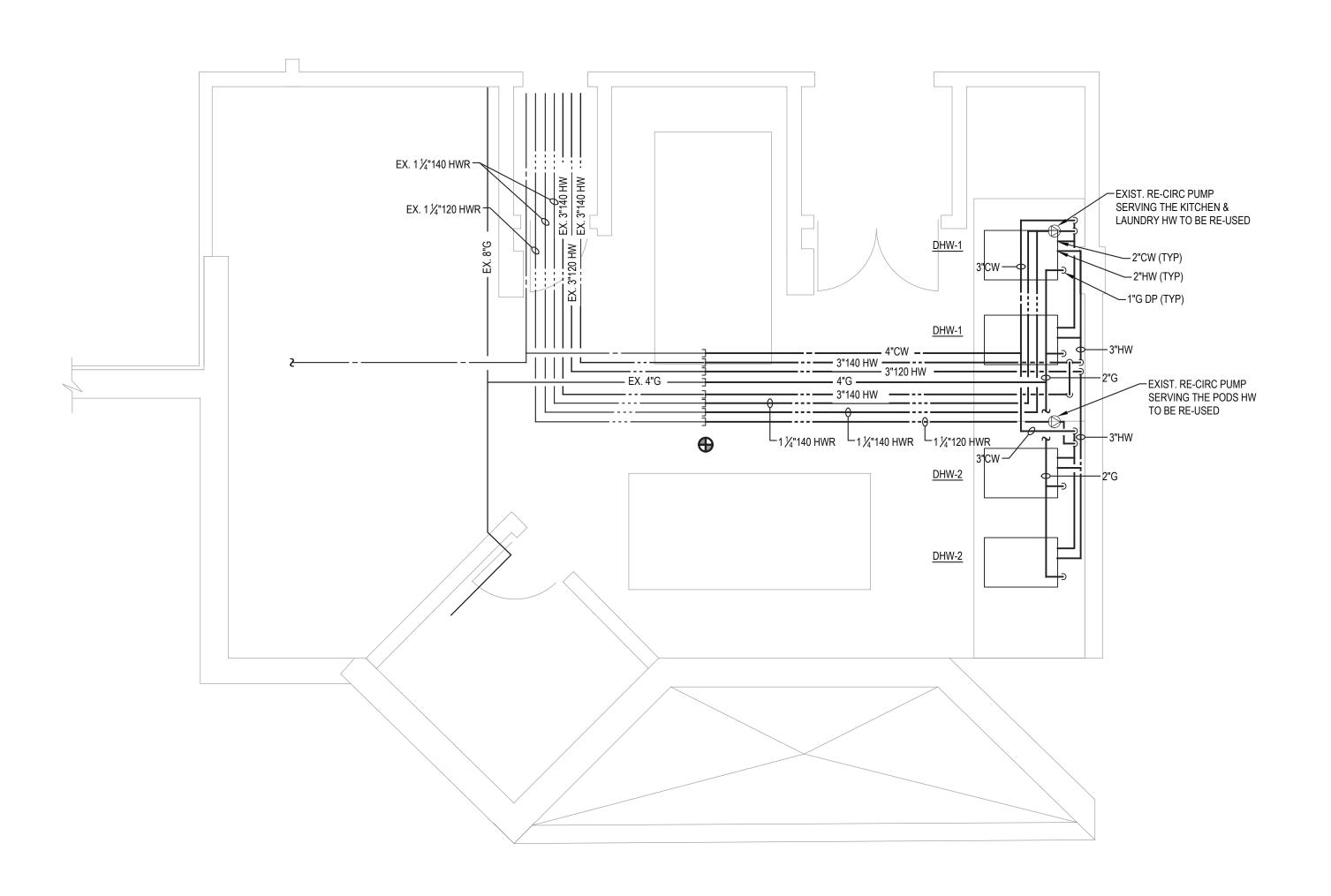
NYC DOB NUMBER

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 ENERGY CONSERVATION THIS PLAN IS APPROVED ONLY FOR THE WORK ON THE APPLICATION SPECIFICATION

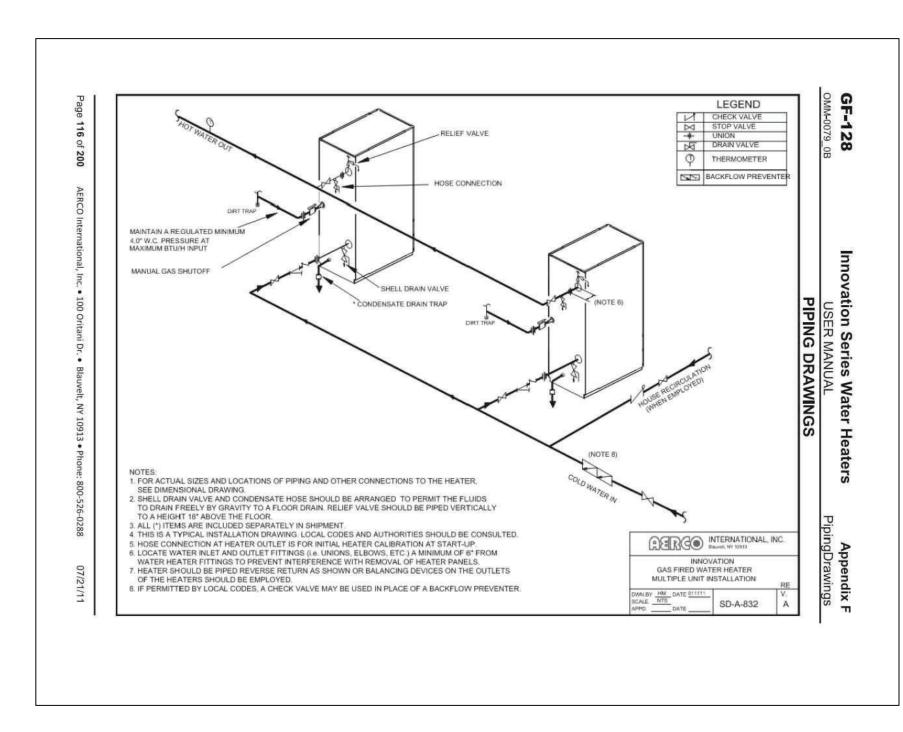
SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

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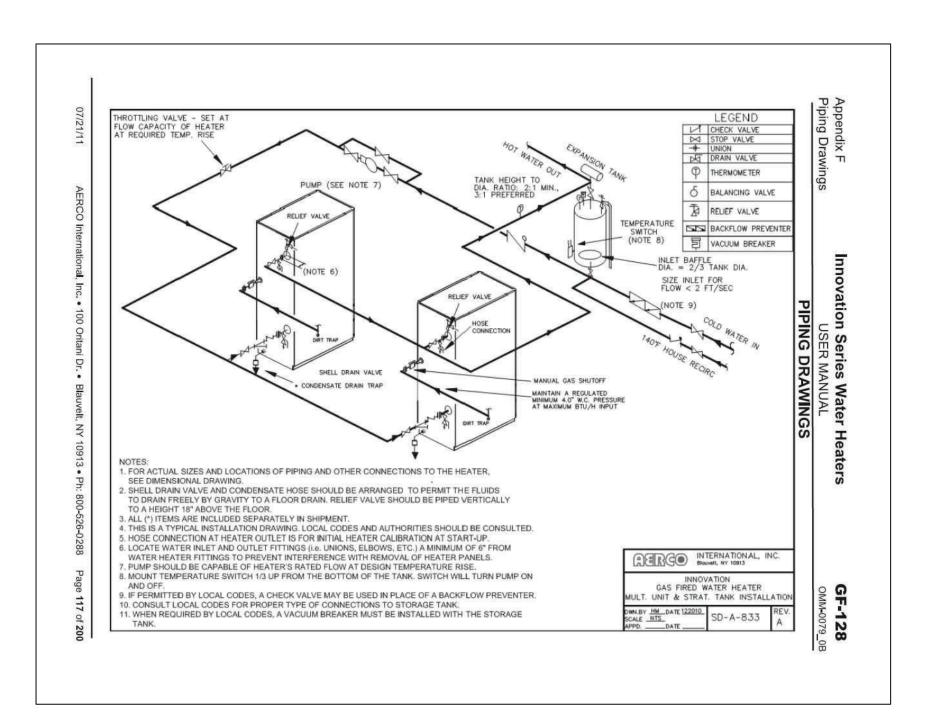
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PLUMBING - BASEMENT PART PLAN



DWH-1: AERCO INNO 1060 - MANUFACTURER'S PIPING DETAIL (FOR REFERENCE)



DWH-2: AERCO INNO 1350 - MANUFACTURER'S PIPING DETAIL (FOR REFERENCE)

PLUMBING GENERAL NOTES

- ROUTING OF WASTE, VENT, AND DOMESTIC WATER PIPING IS SHOWN DIAGRAMMATICALLY ONLY. PLUMBING CONTRACTOR MUST DETERMINE EXACT ROUTING OF NEW PIPING COORDINATED WITH ALL NEW AND EXISTING CONDITIONS. FIELD VERIFY EXACT SIZES OF THE EXIST. CW, HW, HWR PIPING.
- 2. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL NEW WORK WITH THE EXISTING CONDITIONS AND THE NEW WORK OF ALL OTHER TRADES ON THE JOB SITE AND SHALL BE RESPONSIBLE TO REPAIR AND REPLACE ANY EXISTING SUSPENDED CEILINGS AND / OR FINISHES DAMAGED BY THE INSTALLATION OF EQUIPMENT, PIPING, FIXTURES, ETC. UNDER THE PLUMBING CONTRACT.CONTRACTOR TO VERIFY ON SITE THE EXACT LOCATION OF EXISTING SAN, VENT CW & HW RISER PIPE BEFORE INSTALLING ANY NEW WORK.
- 3. ALL FIRE PROOFING WORK AFFECTED BY NEW INSTALLATION ARE TO BE RESTORED TO ITS ORIGINAL CONDITION AND THE REQUIRED RATING.
- 4. PLUMBING INSTALLATION SHALL BE IN ACCORDANCE WITH LOCAL BUILDING CODES AND BUILDING STANDARD FOR ALTERATION CONSTRUCTION.
- 5. ANY HOT AND COLD WATER REQUESTS FOR SHUT RISER DOWNS SHALL BE MADE TO THE BUILDING 2 WEEKS IN ADVANCE.
- 6. CONTRACTOR SHALL PROVIDE AN ALLOWANCE IN HIS BID PRICE TO MODIFY EXISTING PLUMBING SYSTEM UPON THE REQUEST OF THE CLIENT TO ACCOMMODATE THE NEW SCOPE OF WORK.
- 7. CONTRACTOR SHALL COORDINATE WITH THE ELECTRICIAN FOR ANY POWER REQUIREMENT ON WATER HEATER AND CIRCULATION PUMP.
- REMOVE EXISTING TEMPERATURE MIXING VALVE AND RELATED TEMPERED WATER. HOT & COLD WATER SERVICES LINES TO EXISTING WATER HEATERS. CAP EXISTING HW, CW, HWR LINES IN THE CEILING WHERE INDICATED ON THE FLOOR PLAN.
- 9. CONTRACTOR TO COORDINATE WITH THE ELECTRICIAN ALL NEW CONNECTIONS/RECONNECTIONS OF ANY ELECTRICAL CIRCUITING AND CONTROLS AS NECESSARY, I.E., CIRCULATION PUMP, AQUASTAT, ETC.
- 10. CONTRACTOR TO PROVIDE AN ALLOWANCE IN HIS BID PRICE TO FURNISH & INSTALL NEW CIRCULATION PUMPS UPON THE REQUEST OF THE CLIENT.

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PLUMBING
BASEMENT FLOOR PART PLAN

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1/2"=1'-0"	10/XX/2021
Proj. Manager:	Proj. Engineer:
RR	-

G003-03-017

Drawing No:

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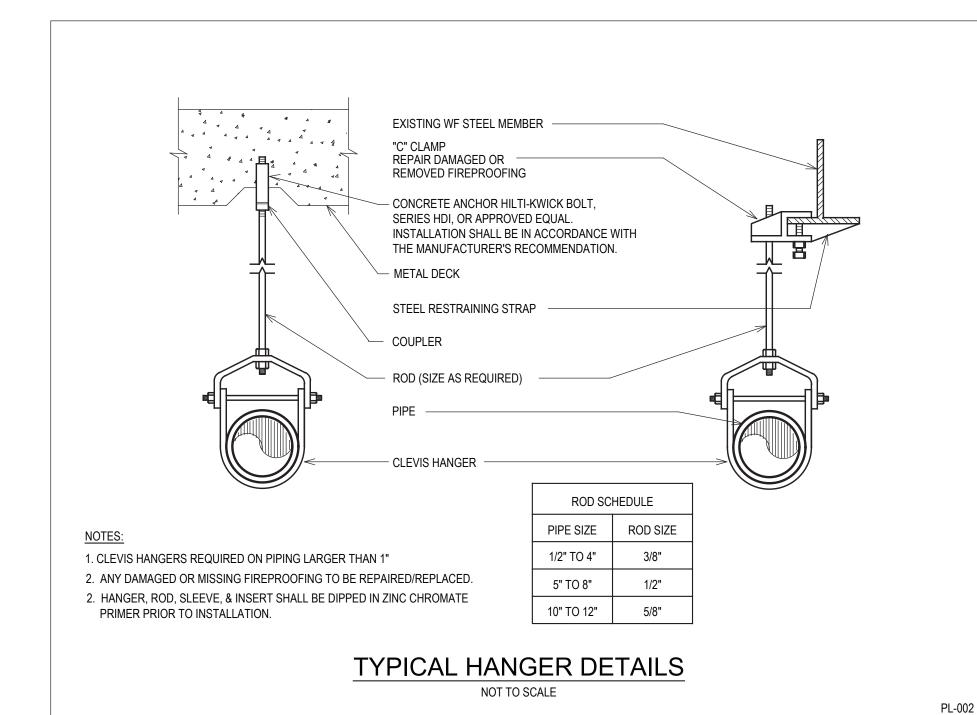
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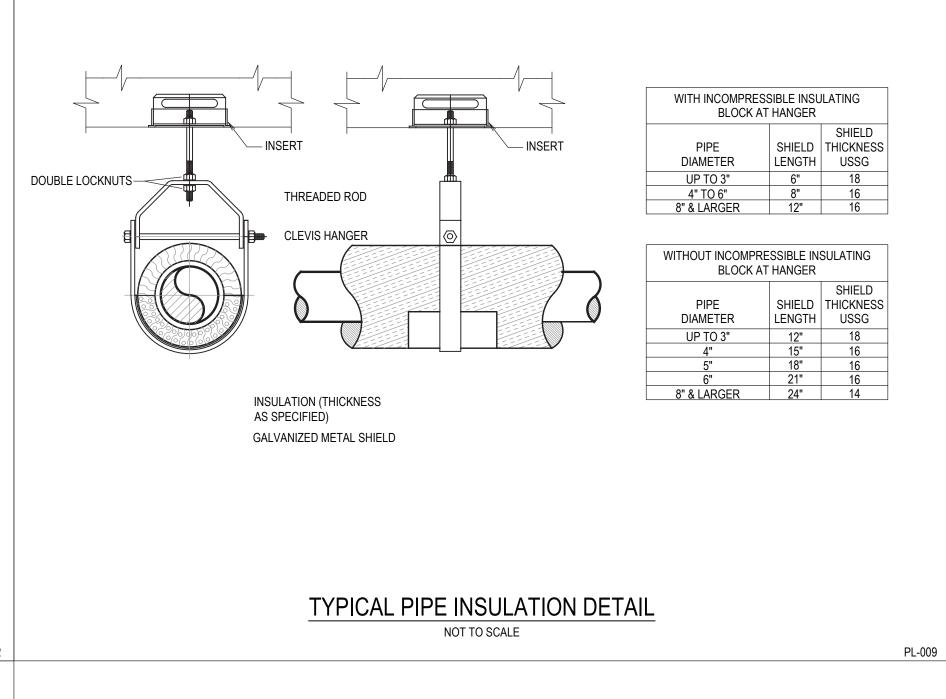
CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

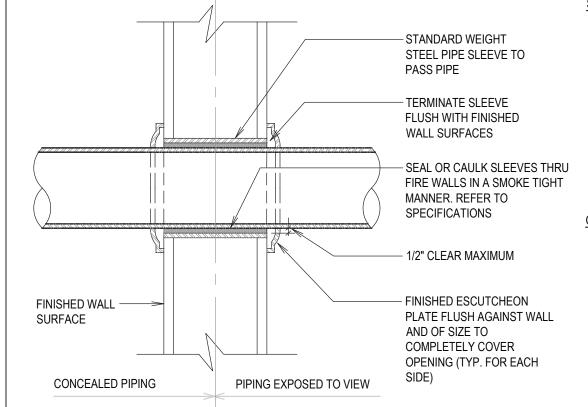
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SLEEVES AND ESCUTCHEONS

- A. SLEEVES FOR PIPING THROUGH MASONRY WALLS SHALL BE SCHEDULE 40, STANDARD GALVANIZED STEEL PIPE; IN FRAMED PARTITIONS SHALL BE 20 GAUGE SHEET METAL. THE SPACE BETWEEN THE PIPE AND ITS SLEEVE SHALL NOT EXCEED ONE-HALF INCH. THE SLEEVE SHALL HAVE A SUFFICIENT LENGTH TO BE FLUSH WITH THE FINISHED WALL SURFACE.
- B. EXPOSED PIPING PASSING THROUGH WALLS, FLOORS OR CEILING SHALL BE FITTED WITH CHROMIUM-PLATED CAST BRASS ESCUTCHEONS WITH FASTENING SET SCREWS.

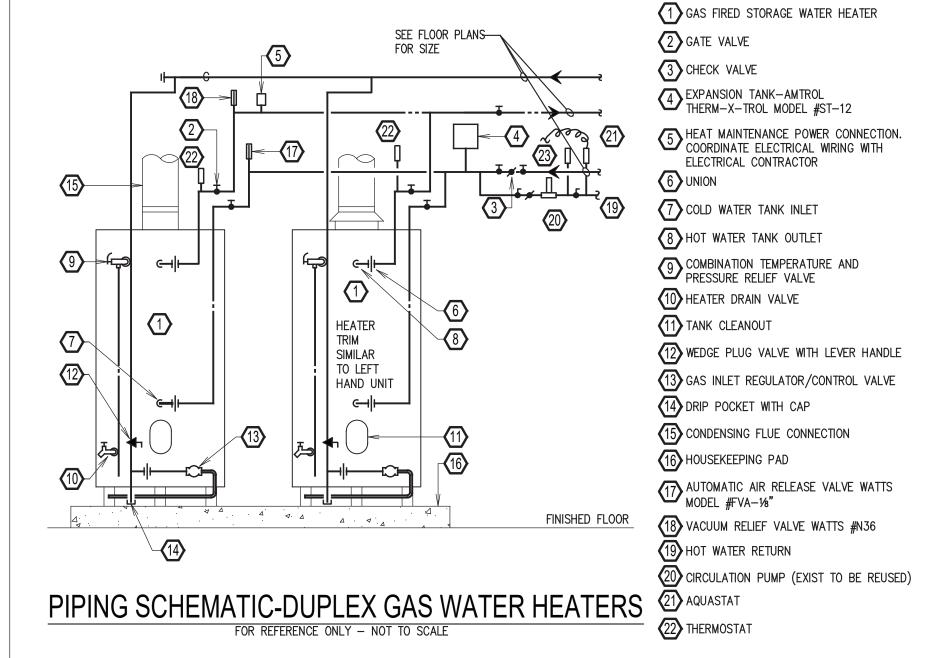
CUTTING AND PATCHING

- A. PIPING PASSING THROUGH WALLS SHALL HAVE A TRIM OPENING CUT NO GREATER THAN NECESSARY FOR THE INSTALLATION OF A SLEEVE SECURED THEREIN.
- B. PIPING PASSING THROUGH CONCRETE FLOORS SHALL HAVE AN OPENING CORE DRILLED SO THAT THE SPACE BETWEEN THE OPENING AND THE PIPE SHALL NOT EXCEED ONE-HALF
- C. ANNULAR SPACES BETWEEN PIPING AND SLEEVES OR CORE DRILLED FLOOR OPENINGS SHALL BE PACKED WITH MINERAL WOOL AND SEALED, TO RETAIN THE FIRE INTEGRITY OF THE WALLS AND FLOORS, WITH A NON-HARDENING COMPOUND SIMILAR OR EQUAL TO DUXSEAL AS MANUFACTURED BY THE J.M. CLIPPER CORP.

TYPICAL DETAIL OF PIPE INSTALLATION THRU RATED WALL

NOT TO SCALE

PL-005



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TRADE DETAILS

Date Issued

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G003-03-017

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