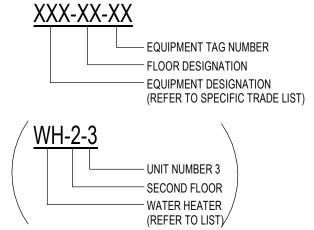
PLUMBING SYMBOL LIST BASIC

HOSPITAL AND LAB

A	AIR PIPING
AP	ACID RESISTANT PIPING
CO2	CARBON DIOXIDE PIPING
DE	DEIONIZED WATER PIPING
DI	DISTILLED WATER PIPING
LV	LABORATORY VENT PIPING
LW	LABORATORY WASTE PIPING
MA	MEDICAL AIR PIPING
MAI	MEDICAL AIR INTAKE PIPING
MG	MEDICAL GAS PIPING
MV	MEDICAL VACUUM PIPING
MVE	MEDICAL VACUUM EXHAUST PIPING
N	NITROGEN PIPING
— — ·NV· — —	NITROGEN VENT PIPING
N2O	NITROUS OXIDE PIPING
<u> </u>	NITROUS OXIDE VENT PIPING
	OXYGEN PIPING
V	VACUUM PIPING
WAGD	WASTE ANESTHETIC GAS DISPOSAL PIPING

PLUMBING EQUIPMENT DESIGNATIONS



	EXISTING PIPING
	EXISTING PIPING TO BE REMOVED
— — – AB — — —	PIPING TO BE ABANDONED
<u> </u>	NEW SOIL, WASTE OR SANITARY PIPING
	VENT PIPING (SANITARY)
	PIPING BELOW SLAB
	DOMESTIC COLD WATER PIPING
	DOMESTIC HOT WATER PIPING (120°)
	DOMESTIC HOT WATER CIRCULATION PIPI
<u>-~~~~~</u>	PIPING w/FREEZE PROTECTION CABLE & IN
	ARROW INDICATES DIRECTION OF FLOW
CA	COMPRESSED AIR PIPING
G	GAS PIPING
EJ	EJECTOR DISCHARGE PIPING
IW	INDIRECT WASTE PIPING
PD	PUMP DISCHARGE PIPING
SD	SUMP PUMP DISCHARGE PIPING
st	STORM WATER DRAINAGE PIPING
T	TEMPERED WATER PIPING
	DISCONNECT FROM EXISTING
\bullet	CONNECT TO EXISTING
\cap	
<u> </u>	SHOCK/WATER HAMMER ARRESTOR
	FLEXIBLE CONNECTION
(H) X (L)	EXPANSION LOOP SIZE
	HOSE BIBB
	WALL HYDRANT
	FRESH AIR INLET
·	CLEAN OUT/PLUGGED OUTLET
L	CAPPED OUTLET
•	CLEAN-OUT DECK PLATE
<u> </u>	P-TRAP
Ÿ	VACUUM BREAKER
 ;	BOTTOM PIPE CONNECTION
 ი	TOP PIPE CONNECTION
+ <u>-</u> -++	SIDE CONNECTION
C	PIPE DOWN/DROP
o	PIPE RISE/UP
——	PIPE SLOPE
5 /	VALVE IN VERTICAL
II	UNION
 ────Þ───	REDUCER
- +	WATER PROOF SLEEVE
=	SLEEVE
$\overline{\mathcal{Q}}$	PRESSURE GAUGE W/GAUGE COCK
•• ∏	TEMPERATURE GAUGE
₩ ₩	FLOOR DRAIN
	ROOF DRAIN
\bigcirc	PUMP
M	WATER METER
L ABD	AUTOMATIC BALL DRIP
	VENT THRU ROOF
\sim	TRAP
T	TAMPER SWITCH
PS +	PRESSURE SWITCH w/GAUGE COCK
P	WATERFLOW SWITCH
\$	TEMPERATURE AND PRESSURE RELIEF VA
	BACKWATER VALVE
$\overline{\nabla}$	PLUG VALVE
\bowtie	MIXING VALVE
*	RELIEF VALVE
Б	BALL VALVE
Ъ _{LS}	BALL VALVE w/LOCK SHIELD
\bowtie	GATE VALVE
	GLOBE VALVE
太	OUTSIDE SCREW & YOKE (OS & Y) VALVE
	CHECK VALVE
	PRESSURE REDUCING VALVE (PRV)
₩ K	
Ъ, К	
	FLOAT VALVE
Φ	BALANCING VALVE
	Y STRAINER w/BLOW-OFF VALVE
BPA	BACKFLOW PREVENTER ASSEMBLY
RPZ	REDUCED PRESSURE ZONE BACKFLOW PR
RPDA	REDUCED PRESSURE DETECTOR ASSEMB
DCV	DOUBLE CHECK VALVE ASSEMBLY
	DOUBLE CHECK DETECTOR ASSEMBLY
BVA	BALANCING VALVE ASSEMBLY
	RISER DESIGNATION:

 $\begin{pmatrix} X \\ \# \end{pmatrix}$

/ENT PIPING (SANITARY) IPING BELOW SLAB DOMESTIC COLD WATER PIPING DOMESTIC HOT WATER PIPING (120°) DOMESTIC HOT WATER CIRCULATION PIPING IPING w/FREEZE PROTECTION CABLE & INSULATION ARROW INDICATES DIRECTION OF FLOW OMPRESSED AIR PIPING GAS PIPING EJECTOR DISCHARGE PIPING NDIRECT WASTE PIPING PUMP DISCHARGE PIPING SUMP PUMP DISCHARGE PIPING TORM WATER DRAINAGE PIPING TEMPERED WATER PIPING DISCONNECT FROM EXISTING CONNECT TO EXISTING SHOCK/WATER HAMMER ARRESTOR LEXIBLE CONNECTION XPANSION LOOP SIZE OSE BIBB WALL HYDRANT FRESH AIR INLET CLEAN OUT/PLUGGED OUTLET CAPPED OUTLET CLEAN-OUT DECK PLATE -TRAP VACUUM BREAKER BOTTOM PIPE CONNECTION FOP PIPE CONNECTION IDE CONNECTION IPE DOWN/DROP IPE RISE/UP PIPE SLOPE VALVE IN VERTICAL JNION EDUCER WATER PROOF SLEEVE SLEEVE PRESSURE GAUGE w/GAUGE COCK TEMPERATURE GAUGE LOOR DRAIN ROOF DRAIN WATER METER AUTOMATIC BALL DRIP /ENT THRU ROOF RAP TAMPER SWITCH PRESSURE SWITCH w/GAUGE COCK NATERFLOW SWITCH EMPERATURE AND PRESSURE RELIEF VALVE BACKWATER VALVE PLUG VALVE IIXING VALVE RELIEF VALVE BALL VALVE BALL VALVE w/LOCK SHIELD GATE VALVE GLOBE VALVE DUTSIDE SCREW & YOKE (OS & Y) VALVE CHECK VALVE PRESSURE REDUCING VALVE (PRV) SOLENOID VALVE LOAT VALVE BALANCING VALVE STRAINER w/BLOW-OFF VALVE BACKFLOW PREVENTER ASSEMBLY REDUCED PRESSURE ZONE BACKFLOW PREVENTER ASSEMBLY REDUCED PRESSURE DETECTOR ASSEMBLY DOUBLE CHECK VALVE ASSEMBLY DOUBLE CHECK DETECTOR ASSEMBLY BALANCING VALVE ASSEMBLY RISER DESIGNATION: X = RISER SERVICE; # = RISER NUMBER CIRCUIT SOLVER ASSEMBLY

PLUMBING ABBREVIATIONS

<u>PLUN</u>	IBING ABBREVIATION
AD AFF	AREA DRAIN ABOVE FINISHED FLOOR
BLDG BOP	BUILDING BOTTOM OF PIPE
CLG CM CO CODP CONN CONT CV CVO CVO CW	CEILING COFFEE MAKER CLEANOUT CLEANOUT DECK PLATE CONNECT CONTINUATION CHECK VALVE CAPPED AND VALVED OUTLET COLD WATER
DIA DN DR DWG EJ DIS EQC	DIAMETER DOWN (PENETRATES FLOOR SLAB) DRAIN DRAWING EJECTOR DISCHARGE ELECTRIC WATER COOLER
(E) (ER) (ERR) EL	EXISTING EXISTING TO BE REMOVED EXISTING TO BE REMOVED & RELOCATED ELEVATION
FAI FD FL FL H FT FU	FRESH AIR INLET FLOOR DRAIN FLOOR FLOOR HYDRANT FEET FIXTURE UNIT
GAL GC GPM	GALLONS GENERAL CONTRACTOR GALLONS PER MINUTE
HB HCLG HW HWR	HOSE BIBB HUNG CEILING HOT WATER HOT WATER RETURN
ID IN IW	INSDIE DIAMETER INCH INDIRECT WASTE
JS	JANITOR'S SINK
LAV	LAVATORY
MAP MAX MIN MR	MEDICAL GAS ALARM PANEL MAXIMUM MINIMUM MOP RECEPTOR
NC NIC NO NTS	NORMALLY CLOSED NOT IN THIS CONTRACT NORMALLY OPEN NOT TO SCALE
OD OS&Y	OUTSIDE DIAMETER OUTSIDE SCREW & YOKE GATE VALVE
PD PD PO PRV PSI	PLUMBING CONTRACTOR PUMP DISCHARGE PLUGGED OUTLET PRESSURE REDUCING VALVE POUNDS PER SQUARE INCH (GAUGE)
(RE) (RRO) RD	RELOCATED EXISTING EXISTING TO BE REMOVED AND RETURN TO OWNER ROOF DRAIN
SA SAN SD SH SK SQ FT ST	SHOCK ABSORBER SANITARY SUMP PUMP DISCHARGE SHOWER SINK SQUARE FOOT STORM
TW TWR TYP	TEPID WATER TEPID WATER RETURN TYPICAL
uon up ur	UNLESS OTHERWISE NOTED UP (PENETRATES FLOOR SLAB) URINAL
V VB VTR	VENT VACUUM BREAKER VENT THROUGH ROOF
W WC WCO WH	WASTE WATER CLOSET WALL CLEANOUT WALL HYDRANT

ZCVB ZONE CONTROL VALVE BOX

PLUMBING DEMOLITION NOTES

- 1. THE CONTRACTOR SHALL INCLUDE IN HIS PRICE ALL COSTS ASSOCIATED WITH REMOVALS AND RELOCATIONS OF PLUMBING WORK AS DESCRIBED ON THE DRAWINGS AND IN THE SPECIFICATIONS WITH ALLOWANCES FOR EXPECTED OR UNFORESEEN DIFFICULTIES WHEN CONCEALED WORK HAS BEEN OPENED. NO CLAIMS FOR ADDITIONAL WORK ASSOCIATED WITH DEMOLITION WILL BE ACCEPTED, EXCEPT IN CERTAIN CASES CONSIDERED JUSTIFIABLE BY THE ARCHITECT.
- 2. THE CONTRACTOR SHALL REMOVE AND/OR RELOCATE ALL EXISTING PLUMBING WORK WHICH INTERFERES WITH THE NEW ARCHITECTURAL LAYOUTS. ALL SYSTEMS WHICH ARE NO LONGER REQUIRED TO FUNCTION SHALL BE REMOVED BACK TO ACTIVE LINES.
- 3. THE CONTRACTOR SHALL PERFORM DEMOLITION AND REMOVAL WORK WITH MINIMUM INTERFERENCE WITH FUNCTIONING PLUMBING SYSTEMS. ALL AFFECTED SYSTEMS SHALL BE RECONNECTED AND RESTORED.

EXTERIOR BUILDING SURFACE TO ITS ORIGINAL CONDITION.

PLUMBING CONTRACTOR, AS DIRECTED BY THE OWNER.

AND RECONNECTED.

- 4. DEMOLITION AND REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER. THE CONTRACTOR SHALL PATCH, REPAIR OR OTHERWISE RESTORE ANY DAMAGED INTERIOR OR
- 5. THE CONTRACTOR SHALL REMOVE ALL PIPING SUPPORTS, ETC. FROM PARTITIONS THAT ARE TO BE REMOVED. WHERE THE REMOVAL OF THESE ITEMS DISRUPTS EXISTING PIPING THAT IS TO REMAIN,
- THE CONTRACTOR SHALL INSTALL AND PROVIDE BYPASS CONNECTIONS NECESSARY. 6. ALL PIPING WHICH BECOMES EXPOSED DURING THE ALTERATION WORK SHALL BE REMOVED AND
- REROUTED CONCEALED BEHIND FINISHED SURFACES. 7. PORTIONS OF MAINS TO BE REMOVED OR ABANDONED AS A RESULT OF DEMOLITION WORK, BUT WHICH ARE REQUIRED TO REMAIN ACTIVE, SHALL BE CUT AT CONVENIENT LOCATIONS, REROUTED
- 8. THE CONTRACTOR SHALL NOTIFY THE OWNER AT THE APPROPRIATE TIME OF THE PROJECTED DEMOLITION AND PHASING SCHEDULE SO THAT REMOVAL OR RELOCATION OF AFFECTED UTILITIES
- 9. ALL EXISTING MATERIAL AND EQUIPMENT IN USABLE CONDITION, WHICH IS TO BE REMOVED UNDER THIS CONTRACT, SHALL REMAIN THE PROPERTY OF THE OWNER OR SHALL BE DISPOSED OF BY THE
- 10. ARRANGE TO WORK CONTINUOUSLY, INCLUDING OVER TIME, IF REQUIRED, TO ASSURE THAT SYSTEMS WILL BE SHUT DOWN ONLY DURING THE TIME ACTUALLY REQUIRED TO MAKE THE NECESSARY CONNECTIONS TO THE EXISTING SYSTEMS.

MAY BE CARRIED OUT IN COORDINATION WITH THE PROJECT REQUIREMENTS.

11. THE SHUTDOWN OF EXISTING BUILDING PLUMBING SERVICES SHALL BE COORDINATED WITH THE OWNER. MAKE ARRANGEMENTS AT LEAST 5 BUSINESS DAYS PRIOR TO A SHUTDOWN.

PLUMBING GENERAL NOTES

- 1. GENERAL NOTES, SYMBOL LIST AND DETAILS ARE APPLICABLE TO ALL PLUMBING DRAWINGS. 2. ALL WORK IS NEW UNLESS OTHERWISE NOTED.
- 3. DRAWINGS ARE DIAGRAMMATIC: DETERMINE LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD.
- 4. NEITHER ACCURACY NOR COMPLETION OF UTILITY LOCATIONS SHOWN ON DRAWINGS IS GUARANTEED. DETERMINE EXACT LOCATIONS OF EXISTING UTILITY IN FIELD, WHETHER OR NOT SHOWN ON DRAWINGS. EXERCISE CAUTION AND IDENTIFY LOCATIONS OF UNMARKED UTILITY LINES AS NECESSARY TO PERFORM WORK OF THIS SECTION.
- 5. ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE CURRENT PLUMBING CODE AND ALL APPLICABLE LOCAL CODES AND DRAWINGS.
- 6. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE HIS WORK WITH THAT OF ALL OTHER TRADES, INCLUDING (BUT NOT LIMITED TO), ELECTRICAL, HVAC PROCESS PIPING, SPRINKLER, PLUMBING STRUCTURAL AND GENERAL ARCHITECTURE.
- 7. ANY INTERFERENCE SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND THE OWNER'S REPRESENTATIVE, AND SHALL BE RESOLVED PRIOR TO THE INSTALLATION OF THE WORK INVOLVED.
- 8. NO WORK SHALL BE INSTALLED IN VIOLATION OF ANY GOVERNING CODES. ANY WORK SHOWN ON THE DRAWINGS WHICH IS IN VIOLATION OF SUCH CODES SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND THE OWNER'S REPRESENTATIVE AND SHALL BE RESOLVED PRIOR TO THE INSTALLATION OF THE WORK INVOLVED.
- 9. ALL PIPING PENETRATING CEILING AND WALLS SHALL BE INSTALLED WITH CHROME (STAINLESS WHERE NOTED) PLATED ESCUTCHEONS AT THE PENETRATION. ALL PIPING PENETRATING EXTERIOR WALLS AND ROOFS SHALL BE FLASHED IN AN APPROVED MANNER AND SHALL BE SEALED WEATHER TIGHT. PIPING PENETRATING RATED PARTITIONS SHALL BE PROTECTED AS REQUIRED BY LOCAL CODE AUTHORITY. (SEE DETAILS)
- 10. MANUFACTURER'S MODEL NUMBERS ARE SPECIFIED SOLELY TO ESTABLISH STANDARDS OF QUALITY FOR PERFORMANCE AND MATERIALS.
- 11. PRODUCT INSTALLATION SHALL ADHERE TO MANUFACTURERS' RECOMMENDATIONS.
- 12. PROVIDE ACCESS PANELS FOR EQUIPMENT THAT REQUIRES PERIODIC SERVICE. 13. TOPS OF ALL FLOOR DRAINS SHALL BE SET FLUSH WITH FINISHED FLOOR. ALL PIPING ABOVE GRADE SHALL BE PROPERLY SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR CEILING STRUCTURE.
- 14. CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL DRAWINGS AND SHALL FURNISH EQUIPMENT WIRED
- FOR THE VOLTAGES SHOWN HEREIN. 15. PROVIDE SHUTOFF VALVES ON ALL BRANCH PIPING AND ON ALL SUPPLIES TO INDIVIDUAL FIXTURES AND EQUIPMENT. PROVIDE BALL VALVES ON ALL WATER MAIN BRANCHES IN CORRIDORS AND
- WHERE INDICATED ON DRAWINGS. ALL VALVES SHALL BE ACCESSIBLE. 16. ALL SLEEVES THROUGH CONCRETE FLOORS AND ALL CORE DRILLING OF CONCRETE FLOORS AND WALLS SHALL BE BY THIS CONTRACTOR.
- 17. CONCRETE PADS AND PLATFORMS FOR WORK OF THIS SECTION WILL BE PROVIDED BY GENERAL
- CONTRACTOR. PROVIDE INFORMATION AND HARDWARE AS NECESSARY TO COORDINATE WORK. 18. SCHEDULE WORK OF THIS SECTION TO AVOID INTERFERENCES WITH FIRE-PROOFING WORK.
- 19. COORDINATE ROOF PENETRATIONS WITH WORK OF OTHER SECTIONS AND WITH FLASHING REQUIREIVIENTS.
- 20. RUN PIPING CONCEALED, UNLESS SPECIFIED OTHERWISE, AND CLEAR OF CEILING INSERTS.
- 21. STRUCTURAL WELDING SHALL BE 1/4-INCH FILLET UNLESS REQUIRED OTHERWISE.
- 22. PROVIDE CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS AND GUIDES AS NECESSARY TO PREVENT STRESS ON PIPING.
- 23. PROVIDE BALANCING VALVES AT SYSTEM LOOP RETURNS AND AT RETURN RISERS. PROVIDE SHUT-OFF VALVES AT SYSTEM LOOP SUPPLIES AND SUPPLY RISERS.
- 24. PROVIDE VENTS AT HIGH POINTS IN PIPING SYSTEMS AND DRAIN VALVES AT LOW POINTS.
- 25. PROVIDE GAUGE FITTINGS AND THERMOMETER WELLS AT HOT WATER SUPPLY AND RETURN BRANCHES AND AT PUMP INLETS AND OUTLETS.
- 26. VERIFY EXACT SIZES, LOCATIONS, INVERTS AND ELEVATIONS PRIOR TO RUNNING ANY PIPING. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL FIXTURES AND EQUIPMENT.
- 27. PLUMBING SUBCONTRACTOR IS RESPONSIBLE FOR EXTENDING ALL REGULATOR VENTS TO

ATMOSPHERE. REGULATORS ARE PART OF EQUIPMENT GAS TRAIN.

28. PIPING SHALL NOT RUN OVER ELECTRICAL PANELS AND SHALL BE COORDINATED WITH WORK OF OTHER TRADES.

PLUMBING DRAWING LIST

DRAWING No.	DRAWING TITLE
P00-01	PLUMBING GENERAL NOTES, SYMBOLS AND ABBREVIATIONS
P00-11	PLUMBING SCHEDULES
P00-21	PLUMBING DETAILS
P04-51	PLUMBING LEVEL 5 DEMOLITION FLOOR PLAN - SECTOR 1
P04-52	PLUMBING LEVEL 5 DEMOLITION FLOOR PLAN - SECTOR 2
P04-61	PLUMBING ROOF DEMOLITION PLAN - SECTOR 1
P04-62	PLUMBING ROOF DEMOLITION PLAN - SECTOR 2
P11-51	PLUMBING LEVEL 5 FLOOR SUPPLY PLAN - SECTOR 1
P11-52	PLUMBING LEVEL 5 FLOOR SUPPLY PLAN - SECTOR 2
P11-61	PLUMBING LEVEL 6 FLOOR SUPPLY PLAN - SECTOR 1
P11-62	PLUMBING LEVEL 6 FLOOR SUPPLY PLAN - SECTOR 2
P11-71	PLUMBING LEVEL 7 FLOOR SUPPLY PLAN - SECTOR 1
P11-72	PLUMBING LEVEL 7 FLOOR SUPPLY PLAN - SECTOR 2
P12-51	PLUMBING LEVEL 5 FLOOR DRAINAGE PLAN - SECTOR 1
P12-52	PLUMBING LEVEL 5 FLOOR DRAINAGE PLAN - SECTOR 2
P12-61	PLUMBING LEVEL 6 FLOOR DRAINAGE PLAN - SECTOR 1
P12-62	PLUMBING LEVEL 6 FLOOR DRAINAGE PLAN - SECTOR 2
P12-71	PLUMBING LEVEL 7 FLOOR DRAINAGE PLAN - SECTOR 1
P12-72	PLUMBING LEVEL 7 FLOOR DRAINAGE PLAN - SECTOR 2
P12-81	PLUMBING ROOF PLAN - SECTOR 1
P12-82	PLUMBING ROOF PLAN - SECTOR 2
P12-91	PLUMBING PENTHOUSE PLAN - SECTOR 1
P12-92	PLUMBING PENTHOUSE PLAN - SECTOR 2
P12-93	PLUMBING HOISTWAY ROOF PLAN - SECTOR 2
P20-01	PLUMBING RISER DIAGRAMS
P20-02	PLUMBING RISER DIAGRAMS

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_	PROJECT TITLE
	East Tower 6 & 7 Addition 22 Bramhall Street
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	ATE OF MANUT
с	PETER J. REILLY NO. 12356
	CENSE SSIONAL EN MULTIN
	KEY PLANS
	OVERALL KEY PLAN 1 - GILMAN GARAGE 2 - CONGRESS STREET 3 - VISITOR GARAGE
В	4 - EAST TOWER 5 - CENTRAL UTILITY PLANT 6 - BEAN BUILDING 7 - RICHARDS BUILDING 8 - MAINE GENERAL BUILDING
	5 6 7 4
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	CONSTRUCTION DOCUMENTS JANUARY 26, 2018
	1 ADDENDUM NO. 1 03/22/18
	NOISSUEDATEJob NumberB150312-000
A	DrawnDGCCheckedPJRApprovedPJR
	GENERAL NOTES, SYMBOLS AND ABBREVIATIONS
	SHEET NUMBER