

PLUMBING FIXTURE SCHEDULE							
TYPE	DESCRIPTION	MODEL	TRIM & ACCESSORIES	FIXTURE CONNECTIONS			
				CW	HW	WASTE	VENT
WC-1	WATER CLOSET - WALL MOUNT, WHITE VITREOUS CHINA, ELONGATED BOWL, SIPHON JET FLUSH, 1½" TOP SPUD, 1.6 GALLON FLUSH.	KOHLER KINGSTON K-4325	PROVIDE NEW FLUSH VALVE: AMERICAN STANDARD 606B.161, PISTON-TYPE EXPOSED HARD-WIRED AUTOMATIC SENSOR FLUSH VALVE (1.6 GPF), MANUAL OVERRIDE. AMERICAN STANDARD PK00.HAC AC TRANSFORMER LOCATED ABOVE CEILING. AMERICAN STANDARD PK00.MAC MULTI-AC ADAPTER. PROVIDE NEW TOILET SEAT: BEMIS MODEL 3155SSCT EXTRA HEAVY WEIGHT, SOLID PLASTIC, OPEN FRONT, ELONGATED, LESS COVER, STAINLESS STEEL SELF-SUSTAINING CHECK HINGES, STA-TITE FASTENING SYSTEM, ANTIMICROBIAL.	1"		4"	2"
WC-2	WATER CLOSET - WALL MOUNT, WHITE VITREOUS CHINA, ELONGATED BOWL, SIPHON JET FLUSH, 1½" TOP SPUD, 1.6 GALLON FLUSH. ADA COMPLIANT.	KOHLER KINGSTON K-4325	PROVIDE NEW FLUSH VALVE: AMERICAN STANDARD 606B.161, PISTON-TYPE EXPOSED HARD-WIRED AUTOMATIC SENSOR FLUSH VALVE (1.6 GPF), MANUAL OVERRIDE. AMERICAN STANDARD PK00.HAC AC TRANSFORMER LOCATED ABOVE CEILING. AMERICAN STANDARD PK00.MAC MULTI-AC ADAPTER. PROVIDE NEW TOILET SEAT: BEMIS MODEL 3155SSCT EXTRA HEAVY WEIGHT, SOLID PLASTIC, OPEN FRONT, ELONGATED, LESS COVER, STAINLESS STEEL SELF-SUSTAINING CHECK HINGES, STA-TITE FASTENING SYSTEM, ANTIMICROBIAL.	1"		4"	2"
U-1	H/C URINAL - URINAL - WALL MOUNT, WHITE VITREOUS CHINA, ¾" TOP SPUD, 0.5 GALLON FLUSH, 14½" EXTENDED RIM. ADA COMPLIANT.	KOHLER BARDON K-4991-ETSS	PROVIDE NEW FLUSH VALVE: AMERICAN STANDARD 606B.051, PISTON-TYPE EXPOSED HARD-WIRED AUTOMATIC SENSOR FLUSH VALVE (0.5 GPF), MANUAL OVERRIDE. AMERICAN STANDARD PK00.HAC AC TRANSFORMER LOCATED ABOVE CEILING. AMERICAN STANDARD PK00.MAC MULTI-AC ADAPTER. PROVIDE WATTS CA-321 FLOOR MOUNTED URINAL CARRIER W/ BEARING PLATE OR APPROVED EQUAL.	3/4"		2"	2"
L-1	19½"x15½" RECTANGULAR UNDERMOUNT VITREOUS CHINA LAVATORY. ADA COMPLIANT.	KOHLER VERTICYL K-38380	PROVIDE NEW FAUCET: AMERICAN STANDARD 605B.105 ELECTRONIC TOUCHLESS DECK MOUNT FAUCET. CHROME PLATED, 0.5 GPM LAMINAR FLOW COMPENSATOR, GRID DRAIN. WITHOUT POP-UP ASSEMBLY. PROVIDE 4" DECK PLATE. AMERICAN STANDARD 605P.400 4" BRASS DECK PLATE. AMERICAN STANDARD PK00.HAC AC TRANSFORMER LOCATED ABOVE CEILING. AMERICAN STANDARD PK00.MAC MULTI-AC ADAPTER. MCGUIRE 1-1/4" TRAP W/ PRODRAIN OFFSET ASSEMBLY, PRE-WRAPPED CHROME PLATED HEAVY CAST BRASS ADJUSTABLE P-TRAP W/ CLEANOUT, TAILPIECE, SLIP NUTS, 17A. SEAMLESS TUBULAR BRASS WALL BEND. MCGUIRE 167LK ANGLE SUPPLY STOPS, FLEXIBLE CHROME PLATED RISERS, CHROME ESCUTCHEON PLATES W/ SET SCREWS.	1/2"		2"	1 1/2"
L-2	20"x18" WALL-MOUNT VITREOUS CHINA LAVATORY. SINGLE HOLE INSTALLATION. ADA COMPLIANT.	KOHLER SOHO K-2054	PROVIDE NEW FAUCET: AMERICAN STANDARD 605B.105 ELECTRONIC TOUCHLESS DECK MOUNT FAUCET. CHROME PLATED, 0.5 GPM LAMINAR FLOW COMPENSATOR, GRID DRAIN. WITHOUT POP-UP ASSEMBLY. PROVIDE 4" DECK PLATE. AMERICAN STANDARD 605P.400 4" BRASS DECK PLATE. AMERICAN STANDARD PK00.HAC AC TRANSFORMER LOCATED ABOVE CEILING. AMERICAN STANDARD PK00.MAC MULTI-AC ADAPTER. MCGUIRE 1-1/4" TRAP W/ PRODRAIN OFFSET ASSEMBLY, PRE-WRAPPED CHROME PLATED HEAVY CAST BRASS ADJUSTABLE P-TRAP W/ CLEANOUT, TAILPIECE, SLIP NUTS, 17A. SEAMLESS TUBULAR BRASS WALL BEND. MCGUIRE 167LK ANGLE SUPPLY STOPS, FLEXIBLE CHROME PLATED RISERS, CHROME ESCUTCHEON PLATES W/ SET SCREWS.	1/2"		2"	1 1/2"
SK-1	SINGLE BOWL, 18 GA. TYPE 304 STAINLESS STEEL SINK, 22"x19"x6½" DEEP, 3-HOLE INSTALLATION, 4" CENTERS. ADA COMPLIANT.	ELKAY LRAD0221965	ELKAY LK-1000CR DECK MOUNTED KITCHEN FAUCET, 2.2 GPM AERATED FLOW CONTROL, CHROME PLATED, MCGUIRE 8912 CHROME PLATED HEAVY CAST BRASS 17 GA. 1-1/2" P-TRAP W/ CLEANOUT PLUG, SLIP NUTS, 17 GA. SEAMLESS TUBULAR BRASS WALL BEND. ESCUTCHEON PLATE. MCGUIRE 2165 1/2" ANGLE SUPPLIES WITH STOPS, FLEXIBLE CHROME PLATED COPPER RISERS. STAINLESS STEEL BASKET DRAIN STRAINER.	1/2"	1/2"	2"	1 1/2"
IMB-1	RECESSED ICE MAKER HOOK-UP BOX	GUY GRAY BIM 875	10" x 8½" x 3½" HOOK-UP BOX. 20 GA. BOX, 18 GA. FACEPLATE, ½" FIP INLET x ¼" OD OUTLET COMPRESSION ANGLE VALVE.	1/2"			
BFP-1	DUAL CHECK BACKFLOW PREVENTER	WATTS SD-3 SERIES	ASSE 1022 APPROVED DUAL CHECK WITH ATMOSPHERIC VENT AND WYE PATTERN STRAINER, 316 STAINLESS STEEL BODY FOR CORROSION RESISTANCE. ALL RUBBER COMPOUNDS COMPLY WITH FDA FOOD ADDITIVE REGULATIONS. CERTIFIED TO ANSINFS STANDARD 18, MANUAL FOOD AND BEVERAGE DISPENSING EQUIPMENT. INSTALLATION SHALL CONFORM TO ASSE 1022 STANDARD.	SIZE PER MANUFACTURER'S REQUIREMENTS			
HB-1	BRASS ANTI-SIPHON WALL FAUCET.	T&S BRASS B-0720-POL	1/2" IPS FEMALE INLET, TEE KEY HANDLE, ATMOSPHERIC VACUUM BREAKER, 3/4" GARDEN HOSE OUTLET.	1/2"			

PLUMBING NOTES

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

PLUMBING NOTES

GENERAL CONDITIONS

- SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS REQUIRED TO COMPLETE ALL WORK SHOWN ON THE CONTRACT DRAWINGS.
- ALL CONSTRUCTION SHALL CONFORM TO APPLICABLE CODE STANDARDS INCLUDING:

FLORIDA STATE UNIVERSITY DESIGN GUIDELINES
FLORIDA BUILDING CODE, BUILDING, 8TH EDITION (2023)
FLORIDA BUILDING CODE, PLUMBING, 8TH EDITION (2023)
FLORIDA BUILDING CODE, MECHANICAL, 8TH EDITION (2023)
FLORIDA FIRE PREVENTION CODE, 8TH EDITION (2023)
FLORIDA BUILDING CODE, ENERGY CONSERVATION CODE, 8TH EDITION (2023)
NFPA 70, NATIONAL ELECTRIC CODE (NEC) 2020 EDITION
STATE AND LOCAL CODES AND ORDINANCES
- THE BIDDERS SHALL INSPECT THE PRESENT JOB SITE CONDITIONS BEFORE PREPARING A BID. THE SUBMISSION OF A BID WILL BE CONSIDERED EVIDENCE THAT SUCH A VISIT AND INSPECTION WAS PERFORMED BY THE BIDDER AND THAT HE TAKES FULL RESPONSIBILITY FOR ALL FACTORS GOVERNING HIS WORK.
- THE CONTRACTOR IS EXPECTED TO PROVIDE PROFESSIONAL WORK PERFORMED IN ACCORDANCE WITH INDUSTRY STANDARDS AND GOOD PRACTICE. WORK SHALL CONFORM TO THE MANUFACTURER'S INSTRUCTIONS AND THE REQUIREMENTS OF THE LOCAL HEALTH DEPARTMENT.
- THE CONTRACTORS ARE EXPECTED TO FIELD VERIFY ALL DIMENSIONS. CONTRACTORS ARE EXPECTED TO ACCOUNT FOR FIELD CONDITIONS. CONTRACTORS ARE EXPECTED TO COORDINATE IN ORDER TO AVOID INTERFERENCE BETWEEN TRADES. CONTRACTORS ARE EXPECTED TO INSTALL EQUIPMENT SUCH THAT PROPER MAINTENANCE CLEARANCES ARE MAINTAINED FOR EQUIPMENT OF ALL TRADES. IF CHANGES TO THE CONTRACT DOCUMENTS ARE NECESSARY TO AVOID CONFLICTS, THE CONTRACTOR IS RESPONSIBLE FOR REQUESTING CLARIFICATION IN A TIMELY FASHION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DEFICIENCIES ASSOCIATED WITH WORK PERFORMED BEFORE OBTAINING CLARIFICATION.
- UPON COMPLETION OF THE WORK THE CONTRACTOR SHALL CLEAN SPACES THAT WERE OCCUPIED BY TEMPORARY WORK AND TEMPORARY FACILITIES. REMOVE DEBRIS, RUBBISH AND EXCESS MATERIALS FROM THE SITES. REPAIR DAMAGES CAUSED BY INSTALLATION OR USE OF TEMPORARY FACILITIES.

GENERAL PLUMBING NOTES

- PLUMBING PLANS ARE SCHEMATIC. LOCATE PIPING TO AVOID FIELD INTERFERENCES. CHANGES IN THE PIPING SCHEMATIC REQUIRE PRIOR APPROVAL OF THE ENGINEER.
- THE CONTRACTOR IS EXPECTED TO VERIFY DIMENSIONS AND FIELD FABRICATE PIPING AS NECESSARY TO ACCOMMODATE CONDITIONS.
- PRIOR TO ANY NEW WORK THE CONTRACTOR SHALL VERIFY BY ALL MEANS AVAILABLE THE DIRECTION OF FLOW OF ALL EXISTING PIPING THAT WILL BE TIED INTO FOR THE NEW WORK. REPORT TO THE ENGINEER ANY DIFFERENCES FROM WHAT THE CONTRACT DOCUMENTS SHOW.

MATERIALS AND DEVICES

- ALL MATERIALS, EQUIPMENT AND APPARATUS COVERED BY THIS SPECIFICATION SHALL BE NEW, OF CURRENT MANUFACTURE.
- SEE PROJECT SPECIFICATIONS FOR MATERIALS.
- CONNECTION JOINTS BETWEEN PLASTIC AND METALLIC PIPE SHALL BE MADE WITH TRANSITION FITTING FOR THE SPECIFIC PURPOSE.
- CONNECTIONS TO WATER HEATERS AND BETWEEN FERROUS AND NONFERROUS METALLIC PIPE SHALL BE MADE WITH DIELECTRIC FITTINGS.

PIPING NOTES

- INSTALL GRAVITY LINES AT UNIFORM GRADES.
- INSTALL SLEEVES AT ALL PENETRATIONS WHERE CONCRETE MIGHT CONTACT COPPER PIPING. PROVIDE SLEEVES AND SEAL ALL PENETRATIONS OF FULL HEIGHT WALLS AIR TIGHT. PROVIDE SLEEVES AT ALL PENETRATIONS OF FLOOR. PROVIDE POLY PIPE COVER OR INSULATION WHERE COPPER PIPING IS ENCASED WITHIN CMU WALLS.
- LOCATE ALL VALVES AND OTHER DEVICES WHICH REQUIRE MAINTENANCE IN ACCESSIBLE LOCATIONS. PROVIDE ACCESS PANELS IF NECESSARY.
- PIPING INSTALLATIONS ARE EXPECTED TO BE RIGID. SUPPORT AND SECURE PIPING IN ACCORDANCE WITH GOOD PRACTICE.
- SEE SPECIFICATIONS FOR HOT WATER PIPING INSULATION REQUIREMENTS. PROFESSIONAL INSTALLATION IS EXPECTED.
- LABEL ALL HOT, TEMPERED & COLD DOMESTIC WATER SUPPLY & RETURN PIPING AT EACH VALVE LOCATION & NO LESS THAN 20' O.C.
- HOT WATER PIPE INSULATION SHALL BE RIGID GLASS FIBER INSULATION WITH A NOMINAL DENSITY OF 3 POUNDS PER CUBIC FOOT WITH A THERMAL CONDUCTIVITY BETWEEN 0.21 AND 0.28 AT 100 DEG F MEAN TEMPERATURE. INSULATION COVER SHALL BE AN ALL SERVICE JACKET WITH DOUBLE SELF-SEALING LAPS, WITH SELF-SEALING BUTT STRIPS. INSULATION THICKNESS SHALL BE ONE INCH (1") THICK FOR PIPE SIZES 3/4" TO 1-1/2" AND 1-1/2" THICK FOR PIPE SIZES 1-1/2" TO 4" PER FBC-PLUMBING 607.5 AND FBC-ENERGY CONSERVATION TABLE C403.2.10.

FIXTURES AND TRIM:

- EQUIPMENT SHALL BE UNDAMAGED AND CLEANED.
- ALL EXPOSED SINK AND LAVATORY DRAIN PIPING SHALL BE CHROME PLATED BRASS NO LESS THAN 17 GAUGE. TRAPS SHALL BE 17 GAUGE FULLY CAST BRASS WITH CLEANOUT PLUGS.
- ESCUTCHEONS SHALL BE CHROME PLATED CAST BRASS WITH SET SCREW.

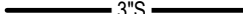
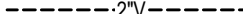
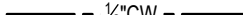
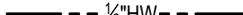
CLOSEOUT, TESTING AND INSPECTIONS

- COORDINATE INSPECTIONS WITH THE SPECIFICATIONS.
- ALL DOMESTIC WATER PIPING SHALL BE STERILIZED IN ACCORDANCE WITH THE PROCEDURE OUTLINED IN THE FBC, PLUMBING CODE.
- ALL WATER SUPPLY PIPING SHALL BE LEAK TESTED IN ACCORDANCE WITH THE FBC, PLUMBING CODE BUT NOT LESS THAN 100 PSI.
- ALL WASTE AND VENT PIPING SHALL BE LEAK TESTED IN ACCORDANCE WITH THE FBC, PLUMBING CODE BUT NOT LESS THAN 10' OF HEAD.
- NO PIPING SHALL BE COVERED OR CLOSED UP BEFORE INSPECTION AND APPROVAL. PROVIDE TEST TEES AT CONNECTION TO EXISTING AT EACH FLOOR & AS NEEDED FOR COMPLETE TESTING.

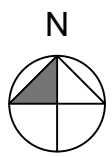
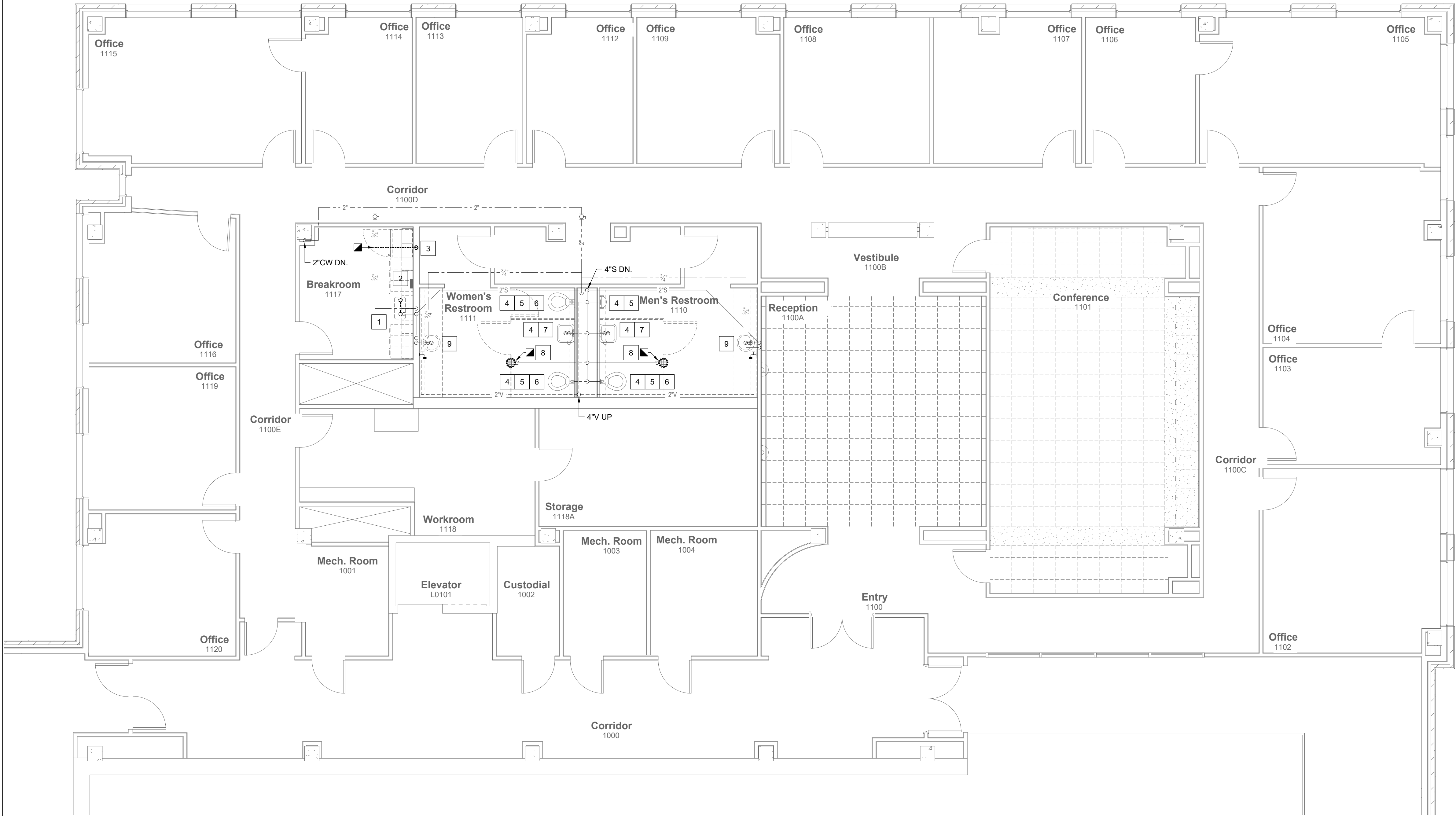
TANKLESS ELECTRIC WATER HEATER SCHEDULE - EXISTING									
TYPE	MANUFACTURE R/ MODEL NO.	TEMP. RISE @ GPM	MAXIMUM FLOW (GPM)	ACTIVATION GPM	KW	VOLTS/PH	AMPS	RECOMMENDED WIRE SIZE	NOTES
EWH-1	INSTANT-FLOW SR-30	33" @ 0.5	2.0	0.35	6.2	208 / 1	30	10 AWG	RELOCATE EXISTING WATER HEATER. TANKLESS WATER HEATER TO BE MOUNTED VERTICALLY ON WALL UNDER COUNTER TOP WITH THE WATER CONNECTIONS ON THE SIDE. SET OUTLET TEMPERATURE IS 110".

DRAIN SCHEDULE (BASIS OF DESIGN)						
TYPE	DESCRIPTION	MODEL	TRIM & ACCESSORIES	FIXTURE CONNECTIONS		
				CW	WASTE	VENT
FD-1	CAST IRON GENERAL SERVICE FLOOR DRAIN WITH SQUARE TOP.	ZURN Z415S	DUCO COATED CAST IRON BODY W/ FLASHING COLLAR AND ADJUSTABLE 7"x7" SQUARE POLISHED BRONZE STRAINER HEAD. PROVIDE J.R. SMITH 2692 TRAP SEAL.	1/2"	3"	2"

ABBREVIATIONS	
AC	ABOVE CEILING
AF	ABOVE FLOOR
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
BFF	BELOW FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BS	BELOW SLAB
CO	CLEANOUT
CW	COLD WATER
CWS	COLD WATER SUPPLY
CVW	COMBINATION WASTE AND VENT
DN	DOWN
EXIST	EXISTING
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FW	FILTERED WATER
H/C	HOT AND COLD WATER
HP	HORSEPOWER
HPG	HIGH PRESSURE GAS
HW	HOT WATER
HW	HOT WATER RETURN
INV EL	INVERT ELEVATION
N/A	NOT APPLICABLE
PDI	PLUMBING DRAINAGE INSTITUTE
PH	PHASE
S	SOIL
SAN	SANITARY
SK	SINK
TP	TRAP PRIMER
TP	TYPICAL
V	VENT
VOLT	VOLTAGE
W	WASTE
WCO	WALL CLEANOUT
WHA	WATER HAMMER ARRESTER

PLUMBING LEGEND	
	SANITARY PIPING
	VENT PIPING
	COLD WATER PIPING
	HOT WATER PIPING
	EXISTING COLD WATER PIPING
	EXISTING HOT WATER PIPING
	EXISTING SANITARY PIPING
	EXISTING VENT PIPING
	PLUMBING PIPING AND EQUIPMENT TO BE DEMOLISHED
	CAP
	ELBOW TURNED UP
	ELBOW TURNED DOWN
	TEE, OUTLET UP
	TEE, OUTLET DOWN
	BALL VALVE
	WATER HAMMER ARRESTER
	POINT OF CONNECTION, NEW TO EXISTING
	LIMIT OF DEMOLITION

ALW Architects Lewis & Whitlock 206 West Virginia St Tallahassee, Florida 32301 850.942.1718 www.think3d.net	Seal: Consultant:		Client: Florida State University Stone Building	PHASE: Design Development 30% Construction Documents 100% Construction Documents	DRAWN: TEP TEP TEP	REVIEWED: J8 J8 J8	DATE: 06/12/25 06/20/25 08/28/25	ID:	REVISION:	DRAWN:	REVIEWED:	DATE:
Project #: 19370.61 Phase: 100% Construction Documents			Job Title: Suite 1100 Improvements	FSU								
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Demolition - Plumbing

Scale: 3/16" = 1'-0"

DEMOLITION GENERAL NOTES

1. ALL NEW PLUMBING FIXTURES SHALL BE INSTALLED AND ADJUSTED TO MEET ADA REQUIRED CLEARANCES AND STANDARDS.
2. RETURN EXISTING FIXTURES AND EQUIPMENT TO THE OWNER.
3. REPAIR WALLS AND FLOOR SLABS DAMAGED DURING WORK ACTIVITY BACK TO PREVIOUS CONDITION.
4. DEMOLITION IS NOT LIMITED TO WHAT IS SHOWN ON THESE DRAWINGS. THE INTENT IS TO INDICATE THE GENERAL SCOPE OF DEMOLITION REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH THE CONTRACT DRAWINGS.

BASE BID DEMOLITION PLAN KEYNOTES

- | ID: | REVISION: | DRAWN: | REVIEWED: | DATE: |
|-----|--|--------|-----------|----------|
| 1 | REMOVE EXISTING SINK AND ASSOCIATED APPURTENANCES. EXISTING PLUMBING ROUGH-INS TO BE MODIFIED BASED ON NEW FIXTURE REQUIREMENTS. | TEP | J.B | 06/12/25 |
| 2 | REMOVE EXISTING TANKLESS ELECTRIC HOT WATER HEATER, ASSOCIATED APPURTENANCES, AND WATER CONNECTIONS, MAINTAIN FOR REUSE. | TEP | J.B | 08/20/25 |
| 3 | REMOVE EXISTING ICE MAKER BOX AND ASSOCIATED APPURTENANCES. | TEP | J.B | 08/22/25 |
| 4 | EXISTING PLUMBING FIXTURE TO REMAIN. | | | |
| 5 | REMOVE AND REPLACE EXISTING FLUSH VALVE. | | | |
| 6 | REMOVE AND REPLACE TOILET SEAT. | | | |
| 7 | REMOVE AND REPLACE EXISTING FAUCET. | | | |
| 8 | REMOVE AND REPLACE EXISTING FLOOR DRAIN. | | | |
| 9 | REMOVE EXISTING LAVATORY, FAUCET, AND ASSOCIATED APPURTENANCES. | | | |

ADD-ALT #3

UPDATE BASE BID NOTES WITH THE BELOW NOTES

- | ID: | REVISION: | DRAWN: | REVIEWED: | DATE: |
|-----|---|--------|-----------|-------|
| 4 | not used | | | |
| 5 | REMOVE AND EXISTING FIXTURE, FLUSH VALVE, AND ASSOCIATED APPURTENANCES. | | | |
| 6 | not used | | | |
| 7 | REMOVE EXISTING PLUMBING FIXTURE, FAUCET, AND ASSOCIATED APPURTENANCES. | | | |

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8	REMOVE AND REPLACE EXISTING FLOOR DRAIN.			
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FSU

ADD-ALT #3
UPDATE BASE BID NOTES WITH THE BELOW NOTES

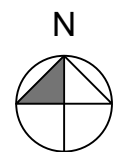
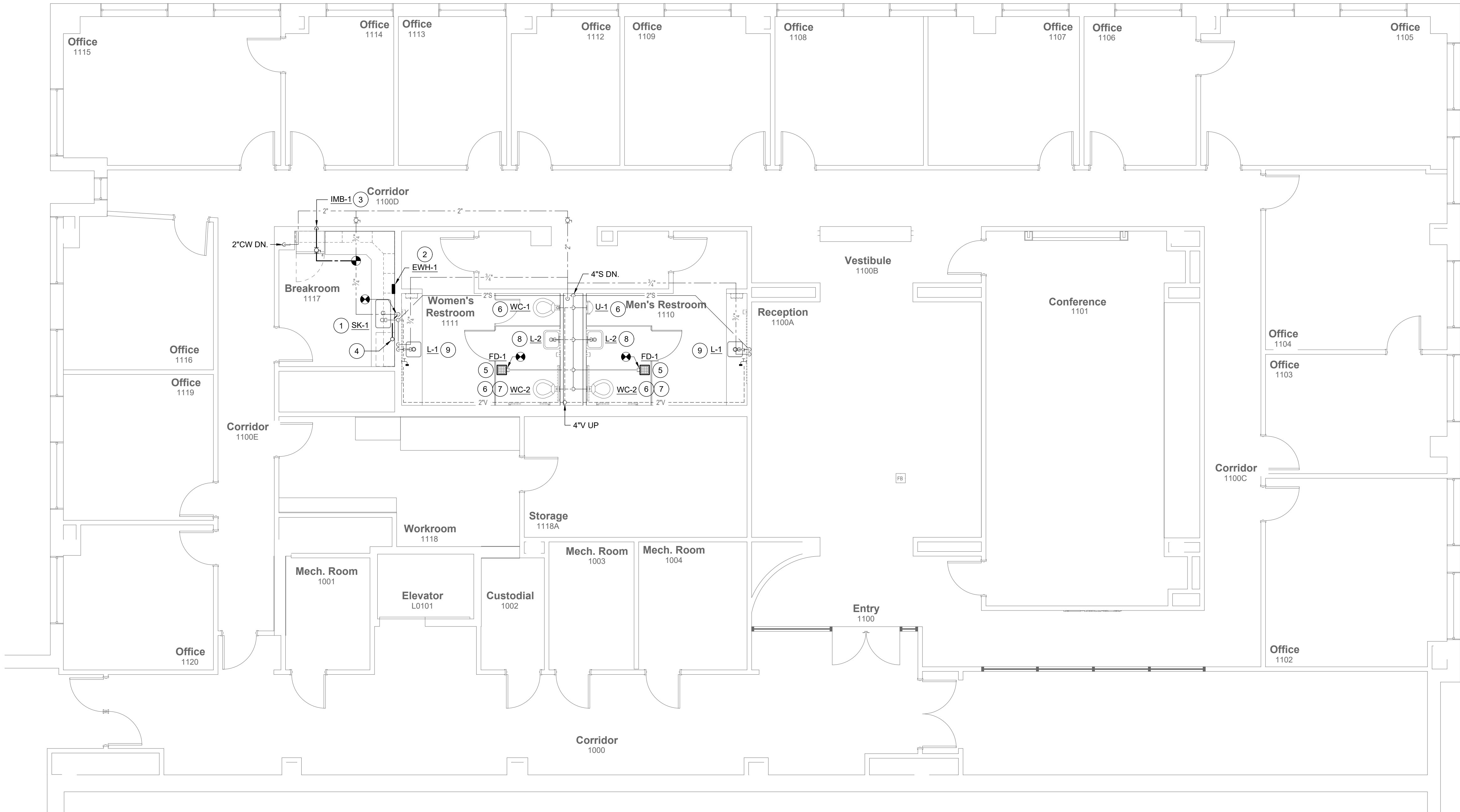
Client: Florida State University
Stone Building
Job Title: Suite 1100 Improvements

Consultant: McGINNISS + FLEMING ENGINEERING
Project #: 19370.61
Phase: 100% Construction Documents

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Description:
Plumbing
Demolition Plan

Sheet No.:
P2.0



1

New Work - Plumbing

Scale: 3/16" = 1'-0"

PLUMBING GENERAL NOTES

- ALL NEW PLUMBING FIXTURES SHALL BE INSTALLED AND ADJUSTED TO MEET ADA REQUIRED CLEARANCES AND STANDARDS.

BASE BID RENOVATION KEYNOTES

- REPLACE EXISTING BREAK ROOM SINK WITH NEW. EXTEND EXISTING 3/2" CW, 2" SANITARY, AND 1 1/2" VENT ROUGH-INS TO NEW FIXTURE LOCATION AS SHOWN.
- EXISTING TANKLESS ELECTRIC WATER HEATER MOUNTED BELOW COUNTER TOP.
- PROVIDE A MINIMUM OF 1/2" NOMINAL ID COPPER WATER TUBING ICE MAKER WATER SUPPLY LINE. SHUT-OFF VALVE AND DRAIN VALVE TO BE INSTALLED ON ICE MAKER WATER SUPPLY LINE. PROVIDE DUAL CHECK BACKFLOW PREVENTER BFP-1. PROVIDE INLINE WATER FILTER, PENTAIR EVERPURE INSURICE SINGLE PF-I20002 OR APPROVED EQUAL. ICE MAKER TO BE CONTRACTOR FURNISHED AND INSTALLED. SEE ARCHITECTURAL DRAWINGS FOR SPECIFICATION.
- PROVIDE 1/2" NOMINAL ID COPPER WATER TUBING COFFEE MAKER SUPPLY LINE. CONNECTION MOUNTED 3'-8" AFF. PROVIDE SHUT-OFF VALVE AND DUAL CHECK BACKFLOW PREVENTER BFP-1. MAKE FINAL CONNECTION TO COFFEE MAKER WITH TIGHT COIL ROLL OF COPPER TUBING. PROVIDE INLINE WATER FILTER, PENTAIR EVERPURE EV9275-60 OR APPROVED EQUAL. COFFEE MAKER TO BE CONTRACTOR FURNISHED AND INSTALLED. SEE ARCHITECTURAL DRAWINGS FOR SPECIFICATION.
- PROVIDE AND INSTALL NEW FLOOR DRAIN. ADJUST FLOOR DRAIN LOCATION SO THAT IT IS LOCATED WITHIN THE FOOTPRINT OF THE ADA STALL.
- INSTALL NEW FLUSH VALVE.
- INSTALL NEW TOILET SEAT.
- INSTALL NEW FAUCET.
- INSTALL NEW LAVATORY, FAUCET, AND ASSOCIATED APPURTENANCES.

ADD-ALT #3

UPDATE BASE BID NOTES WITH THE BELOW NOTES

- INSTALL NEW PLUMBING FIXTURE, FLUSH VALVE, AND ASSOCIATED APPURTENANCES.
- not used
- INSTALL NEW PLUMBING FIXTURE, FAUCET, AND ASSOCIATED APPURTENANCES.

THESE DRAWINGS AND SPECIFICATIONS ARE INSTRUMENTS OF SERVICE. THE DRAWINGS AND ASSOCIATED NOTES, SPECIFICATIONS, AND SCHEDULES SHALL BE READ AND UNDERSTOOD IN THEIR ENTIRETY. ANY CHANGES OR MODIFICATIONS TO THESE DRAWINGS SHALL BE MADE BY THE ARCHITECT. THE ARCHITECT SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED HEREIN. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED BY OTHERS. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED BY OTHERS. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED BY OTHERS.

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DATE:	REVIEWED:	DRAWN:	PHASE:
06/12/25	J.B.	TEP	Design Development
08/20/25	J.B.	TEP	95% Construction Documents
08/22/25	J.B.	TEP	100% Construction Documents



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22 05 00 - PLUMBING

PART 1 - GENERAL

GENERAL CONDITIONS

The work described hereunder shall be installed in accordance with the Mechanical General Conditions, 23 01 00

DESCRIPTION OF THE WORK

The extent of the work is indicated on the Drawings. In general, the work consists of, but is not limited to, the following:
Hot and cold water supply piping and all valves, fittings, etc.
A system of waste and vent piping.
Plumbing fixtures.
Domestic water heaters

RELATED WORK

Electrical wiring is specified in the Electrical Sections.

QUALITY ASSURANCE

All materials and installations are to comply with the following. If conflicts occur between plumbing codes and the specifications, the most restrictive requirements shall govern.
National Electric Code
Florida Building Code
Florida Plumbing Code
Florida Energy Efficiency Code For Building Construction
Florida Administrative Code, 10D-10, Sanitary Facilities for Buildings Serving the Public and Places of Employment.
Accessibility Requirements Manual, Florida Board of Building Codes & Standards

Furnish and install equipment having the characteristics and accessories indicated on the drawings or in these specifications. The manufacturer's specifications for the models shown on the drawings or given as basis for design, plus all features, options, and accessories indicated on the drawings or in these specifications, whether or not standard for the model scheduled or offered as a substitute, shall constitute the minimum requirements for equipment furnished under this section.

SUBMITTALS

Submit to the Architect/Engineer for approval electronic copies of brochures, technical data and/or shop drawings of the following, and as many additional copies as required for Contractor use:
Piping and Fittings
Plumbing fixtures
Valves, cleanouts, and floor drains
Proposed fire proofing systems at penetrations of rated walls.
Pipe hangers and supports.

CHANGES

The Drawings indicate generally the locations of plumbing fixtures, apparatus, piping, etc., and while these are to be followed as closely as possible, if before installation, it is found necessary to change the location of same to accommodate the conditions at the building, such changes shall be made without additional cost to the Owner and as directed by the Architect/Engineer.

PART 2 - PRODUCTS

MATERIALS WHICH PENETRATE FIRE WALLS

Where insulated piping or plastic materials penetrate fire walls, provide a UL listed systems for maintaining the rating.

Where bare-metal piping systems penetrate fire walls, provide a permanent sleeve which is grouted or rocked into wall. Provide a UL listed fire caulk for the annular space.

PLUMBING FIXTURES, TRIM AND FITTINGS

Furnish and install all plumbing fixtures and trim, floor drains and cleanouts as shown on the Drawings. Fixtures shall be as specified or equivalent quality fixtures by American Standard, Kohler, Universal Rundie or Eljer.

Provide all items of brass and chrome plated finish except where otherwise noted.

Brackets, Anchors, and Cleats: Furnish and install where required for support, conceal behind finished wall.

PIPING

Where more than one material is specified for a particular application, comply with Drawing Notes. Where interfacing with an existing system supply materials to match the existing. Where not connecting to existing and where not specified on the Drawings, then the Contractor may select from the options listed.

All materials shall comply with latest ASTM specifications in each instance that ASTM has specifications and standards relating to such materials.

Sanitary Waste and Vent

PVC DWV Soil Pipe, schedule 40, ASTM D2665

PVC Sewer Pipe, schedule 40, ASTM D2665

Cast Iron Soil Pipe, service weight no-hub, ASTM A 74, with neoprene gasket and stainless-steel band and screw assemblies conforming to CISPI Standard 301

Copper tubing, Type L, conforming to ASTM B88, with brazed or solder-joint copper, brass or bronze fittings conforming to ANSI B16.18 or B16.22.

Copper tubing, DWV grade, hard temper conforming to ASTM B306, with solder joint, cast bronze fittings conforming to ANSI B16.23. Tubing larger than 2 inches shall use wrought copper fittings conforming to ANSI B16.29.

Domestic Water Pipe:

Above grade domestic water pipe shall be type L hard copper, conforming to ASTM B88. ProPress cast or wrought fittings per ASME B16.18 or B16.22. Where required solder fittings are acceptable

Above grade domestic water pipe Alternative: CPVC piping, meeting or exceeding ASTM D-1784, Type IV, Grade 1, cell classification 23447B, and be listed by the National Sanitation Foundation (NSF). The pipe must also conform to ASTM F441

Piping below grade shall be annealed soft copper per ASTM B88. Limit fittings where possible.

Below Grade & Below Slab Piping & Fittings: Ductile iron pipe: AWWA C151, working pressure 150 psig, exterior and interior bituminous coating. Provide flanged and anchored connection to interior piping.

Below Grade Piping Alternative: PVC pipe: ASTM D2241, Class 150, working pressure 150 psig, fittings to be AWWA C151, J-M Ring-Tile or approved equal.

Below Grade Piping Alternative 4" and Above: PVC pipe: AWWA C900, Class 150, working pressure 150 psig, fittings to be AWWA C151. J-M Ring Tile or approved equal.

Exposed Pipe in Toilet Areas:

Exposed pipe shall be chrome plated brass, American Brass Co., or equivalent. Furnish and install chrome plated brass wall plates.

Lavatory and Similar Waste Arms:

Type M or L copper water tube, Mueller or equivalent.

Urinal Waste Arms:

PVC.

Roof Drain Piping:

PVC DWV Soil Pipe, schedule 40, ASTM D2665

PVC Sewer Pipe, schedule 40, ASTM D2665

Below grade and below slab piping may be PVC pipe and fittings: schedule 40, conforming to ASTM D2665 or D2661 respectively.

PIPE ACCESSORIES:

Pipe sleeves: metal sized to allow minimum clearance between pipe and sleeves or insulation and sleeves.

Provide chrome-plated brass escutcheon plates where exposed pipe passes through walls, floors, or ceiling in finished areas.

Furnish and install dielectric or isolation fittings at all points where copper pipe connects to steel pipe.

Adjustable wrought clevis type hanger and rods: Anvil or equivalent. Provide copper hangers for copper piping.

Install water hammer arrestors as shown on the Drawings and where required by codes.

VALVES

Ball Valves: 125 lb., bronze ball valve.

TRAPS

For Lavatories and Sinks: Fully Cast Brass, 17ga., chrome plated.

TRAP PRIMERS

1/2 automatic trap primers: all bronze body with integral vacuum breaker and gasketed service cover.

PART 3 - EXECUTION

INSTALLATION OF PIPING

Condensate piping shall be sloped same as sanitary waste and vent.

On vertical sanitary drain lines, connect all soil and waste inlets through sanitary tees, wyes, or wyes and eighth bends. Short radius fittings may be used for vent piping. On horizontal lines connect all waste and soil connections through wyes or wyes and eighth bends. Double branch fittings may be used on vertical lines and horizontal runs, providing proper grades can be maintained.

Make joints in PVC plastic pipe with solvent cement in accordance with pipe manufacturer's instructions.

Lay horizontal drain pipes to uniform grade: riser pipes, vertical. Make changes in directions of drain pipes with long bends. No screwed joints permitted in drain pipes, except as described herein.

Lay all sewers and branches, where practicable, on undisturbed earth cut at proper grade. Where laid on fill, provide adequate supports to maintain pitch of the line.

Sizes of risers and mains of water system piping shall be as designated on the Drawings. Verify any omitted sizes before installation.

Cover pipe openings at all times that the work is not in progress at that point.

Cut brass and copper pipe by means of hacksaw. Remove all burrs and metal chips, dirt, etc., before joining pipe. Chrome plated pipe shall show no wrench marks after installation; no threads shall show.

Adequately support all piping above floors inside the building from or on the building structure. Support piping suspended from the building structure by means of the specified pipe hangers and rods. Support interval shall be per FBC Plumbing Table 308.5.

Sanitary and storm drain piping shall be supported by at least one hanger on each full length of pipe close to hub where possible and at least one within 24 inches of each fitting, and wherever else required to prevent tendency toward deflection due to load. Provide a hanger at upper angle at each drop. Locate hangers adjacent to hubs on multiple fittings not more than four feet on centers.

For support spacing of all other horizontal piping refer to MSS-SP-69 and provide additional supports at valves, strainers, in line pumps and other heavy components. Provide a support within one foot of each elbow.

Vertical Pipe Supports: Up to 6 inch 60 feet long or not over 12-inch pipe up to 30 feet long, Riser clamps bolted to pipe below couplings, or welded to pipe and resting securely on the building structure. Vertical pipe larger than the foregoing, support on base elbows or tees, or substantial pipe legs extending to the building structure. Vertical runs less than 15 feet long may be supported by the hangers on the connecting horizontal runs.

Bases of drain stacks: If not buried in earth support on concrete, brick in cement mortar, or metal brackets permanently attached to building structure.

Make joints in PVC plastic pipe with solvent cement in accordance with pipe manufacturer's instructions.

Yard supply main piping: Piping shall be installed in strict accordance with the manufacturer's recommendations. Provide 6" clean sand fill for pipe bedding. Insure minimum 18" of cover. Provide concrete thrust blocks at all changes of direction. Hand dig thrust block area just behind fittings. Bevel ends of PVC piping. Test piping in accordance with manufactures instruction.

INSTALLATION OF VALVES

Isolate all major piping assemblies as shown on the Drawings and as required for proper operation and maintenance. All valves shall be accessible. Provide valve boxes and access panels where required for accessibility.

Install service valve for hot and cold water at each plumbing fixture.

INSTALLATION OF TRAPS

Trap each fixture by water sealing trap placed as near the fixture as possible.

Vent all traps and place within 5 feet of the fixture which it serves unless otherwise noted.

INSTALLATION OF PIPE SLEEVES

Install pipe sleeves at all locations where pipe passes through walls, floors, or ceilings above or below grade. Sleeves shall extend above floor a minimum of 1". Seal floor sleeves in concrete floors with mortar. Coordinate sleeve size with piping and firestopping requirements in advance.

Where subject to moisture or weather, seal sleeves with watertight sealant.

INSTALLATION OF FIXTURES, TRIM, AND FITTINGS

Install the fixtures, trim and fittings specified, taking care to properly anchor each fixture.

Installation of carriers shall comply with manufacturers' maximum recommendations. Carriers shall be bolted to floor slab using all bolt holes or slots provided on carrier. Bolt size shall match hole or slot. Provide lock washer on each bolt. Use "Red Head" self-drilling anchors as manufactured by Phillips Drill Co. or approved equal product to set bolts.

When the use of a wrench is necessary on chrome plated piping, protect the pipe from marring by use of felt or cloth wrapping beneath wrench jaws.

INSULATION

Insulate all domestic hot water lines.

Insulate all interior condensate piping with ¾" thick elastomeric closed cell foam insulation. Insulation shall have a flame spread of less than 25 and a smoke developed rating of 50 or less as tested by ASTM C534, E84, UL-723 and NFPA 255.

Hot water pipe insulation shall be rigid glass fiber insulation with a nominal density of 3 pounds per cubic foot with a thermal conductivity of not more than 0.23 at 75 deg F mean temperature. Insulation cover shall be an all-service jacket with double self-sealing laps, with self-sealing butt strips. Insulation thickness shall be per Energy Conservation Table C403.2.10

and as follows:

1" thick for pipe sizes 1-1/4" and smaller.
1-1/2" thick for pipe sizes 1-1/2" and larger.

Insulate all domestic cold-water lines subject to ambient conditions. Use closed-cell elastomeric thermal insulation, minimum density of 5.5 pounds per cubic foot with a thermal conductivity of not more than 0.27 at 75 deg F mean temperature. The material shall have a flame spread of 25 or less and a smoke-developed rating of 50 or less as tested by ASTM C534, E84 (25/50) UL-723 (25-50) and NFPA 255 (25-50). Seal all joints, seams, etc. air tight. Insulation thickness shall be per Energy Conservation Table C403.2.10 and as follows:

1/2" thick for pipe sizes 1-1/4" and smaller.
1" thick for pipe sizes 1-1/2" and larger.

Pipe insulation is not required in crawl spaces where located more than 10' from a ventilation opening.

Install insulation in accordance with manufacturer's recommendations.

TESTS AND INSPECTIONS

Make all water and air tests of the piping systems in the presence of and to the satisfaction of the Architect/Engineer or his designated representative. Conduct these tests at such places and with timing to permit work to proceed with as little interruption as possible. Make tests before work is concealed.

Test water piping to hydrostatic pressure at 125 psi and hold for 4 hours.

After the installation of sanitary piping and before the pipe is concealed or the fixtures are installed, cap or plug the ends of the system and fill all lines with water to top of vents above roof and allow to stand until a thorough inspection has been made. Should leaks appear, repeat the tests until the system is tight.

STERILIZATION

The sterilization process shall comply with all governing regulations and with the sterilization procedures recommended by the American Water Works Association. The chlorination process may be simplified by first flushing the system thoroughly clean, then charging with water containing a minimum of 50 parts per million of chlorine, allowing this to stand for 24 hours, then thoroughly flushing. After sterilization and final flushing, the local health authority is to be notified and their approval obtained in writing. Provide copies to the Construction Manager, engineer and Owner. Include a copy in the close out manual.

Seal:	Consultant:	Client:	PHASE:	DRAWN:	REVIEWED:	DATE:	ID:	REVISION:	DRAWN:	REVIEWED:	DATE:
Project #: 19370.61 Phase: 100% Construction Documents	 JON HARRIS, P.E. (SEAL) - BRANN WALLACE, P.E. (SEAL) WILLIAM J. FLEMING, P.E. (SEAL) WWW.MCE.COM 850.942.1718	Florida State University Stone Building	Design Development	TEP	JB	06/12/25					
			95% Construction Documents	TEP	JB						
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Description:
Plumbing Specifications

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