

1. CONTRACTOR SHALL VERIFY ALL EXISTING FIELD CONDITIONS IN THE DEMOLITION AREA PRIOR TO SUBMITTING A BID. THE CONTRACTOR SHALL INCLUDE IN HIS BID THE COST OF REPLACEMENT, REPAIR, RELOCATION OR REMOVAL OF EXISTING ELEMENTS AS REQUIRED TO COMPLETE INSTALLATION OF ALL SYSTEMS AS SPECIFIED AND AS SHOWN ON THESE DRAWINGS.
2. THE CONTRACTOR BY SUBMITTING HIS BID PROPOSAL AGREES TO ACCEPT ALL EXISTING SITE CONDITIONS NOT SPECIFICALLY EXPECTED. DISPOSE OF ITEMS REMOVED FROM THE DEMOLITION AREA. REUSE OF ANY EXISTING ITEM ON THIS PROJECT INCLUDING THOSE INDICATED ON THE DRAWINGS TO BE RELOCATED SHALL BE APPROVED BY THE ENGINEER AND SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS. WHERE THESE DRAWINGS CONFLICT WITH EXISTING FIELD CONDITIONS. A RECORD OF THE FIELD CONDITIONS SHALL BE MADE AVAILABLE TO THE OWNER, ENGINEER, AND ARCHITECT.
3. RELOCATE AND RECONNECT ACTIVE PORTIONS OF THE PLUMBING SYSTEM AS INDICATED ON THE DRAWINGS AND AS REQUIRED TO MAINTAIN A COMPLETE AND OPERATING SYSTEM THAT IS FUNCTIONALLY EQUIVALENT TO THE PRE-EXISTING SYSTEM PRIOR TO DEMOLITION.
4. GENERAL CONTRACTOR IS RESPONSIBLE FOR KEEPING AND CAPPING OFF ANY PIPING WITHIN WALLS NOT BEING DEMOLISHED.
5. PLUMBING CONTRACTOR SHALL REMOVE ALL EXISTING SANITARY SEWER LINES UNUSED IN CEILING SPACE. CONTRACTOR TO CAP TO POINT OF USE.
6. ALL UNUSED WATER, WASTE, AND VENT LINES SHALL BE COMPLETELY REMOVED BACK TO POINT OF USE. CAP AND PLUG WASTE, VENT AND WATER LINES BACK TO POINT OF USE ABOVE CEILING.
7. THE PLUMBING DEMOLITION WORK SHALL INCLUDE THE DISCONNECT, REMOVAL AND DISPOSAL OF THE FOLLOWING PIPING AND ASSOCIATED VALVES, FITTINGS, ACCESSORIES AND SUPPORTS: DOMESTIC COLD WATER, HOT WATER, SANITARY VENT AND SANITARY WASTE.
8. EXISTING PIPING AND EQUIPMENT LOCATIONS ARE SCHEMATICS. CONTRACTOR TO FIELD VERIFY SIZE, LOCATION AND ELEVATION OF EXISTING PIPING PRIOR TO START OF WORK.
9. EXISTING PIPING, FIXTURES AND EQUIPMENT THAT ARE NOT TO BE REUSED SHALL BE REMOVED AND SHALL REMAIN PROPERTY OF THE OWNER IF THEY WISH TO RETAIN OWNERSHIP OF REMOVED EQUIPMENT. IF NOT, EQUIPMENT SHALL BECOME PROPERTY OF THE GENERAL CONTRACTOR AND REMOVED FROM THE SITE AS SOON AS POSSIBLE AND DISPOSED OF ACCORDANCE TO APPLICABLE LAWS AND REGULATIONS.
10. WHERE EXISTING PIPING AND EQUIPMENT THAT ARE TO BE UTILIZED IN THE COMPLETED PROGRAM CONFLICT WITH NEW CONSTRUCTION AND THE REQUIRED DEMOLITION, THEY SHALL BE RELOCATED AND RECONNECTED TO MAINTAIN THE DESIRED SERVICE.
11. ALL WORK MUST BE COORDINATED AND SCHEDULED WITH THE OWNER AND OCCUPANTS OF THIS BUILDING SO AS TO PROVIDE THE LEAST AMOUNT OF DISRUPTION OF BUILDING ACTIVITIES AS POSSIBLE.

1. ALL CONTRACT DOCUMENTS (SPECIFICATIONS AND DRAWINGS), I.E., ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL ARE COMPLEMENTARY AND MUST BE USED IN COMBINATION TO OBTAIN COMPLETE CONSTRUCTION INFORMATION.
2. ALL CONFLICTS, WHICH MAY PREVENT THE COMPLETION OF WORK AS INTENDED, SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION. THE CONTRACTOR SHALL NOT PROCEED WITH ANY RELATED WORK UNTIL ALL CONFLICTS ARE RESOLVED AND THE CLARIFYING INFORMATION IS ISSUED TO THE CONTRACTOR BY THE ARCHITECT.
3. IT IS THE INTENTION OF THESE DRAWINGS TO CALL FOR FINISHED WORK, I.E., FULLY ADJUSTED, TESTED, AND READY FOR OPERATION. WHEREVER THE WORD "PROVIDE" IS USED, IT SHALL MEAN, "TURNISH AND INSTALL COMPLETE AND READY FOR USE."
4. THE PLUMBING DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY SHOW EVERY COMPONENT AND/OR ACCESSORY REQUIRED FOR A COMPLETE INSTALLATION. THE CONTRACTOR SHALL INCLUDE SUCH ITEMS AS ARE REQUIRED TO ENSURE THAT THE ENTIRE SYSTEM IS FUNCTIONING IN COMPLIANCE WITH APPLICABLE CODES, ACCEPTED INDUSTRY STANDARDS, AND MANUFACTURER'S INSTALLATION REQUIREMENTS/RECOMMENDATIONS UPON COMPLETION OF THE WORK.
5. ALL CUTTING, DRILLING AND PATCHING OF WALLS, FLOORS, AND/OR STRUCTURAL MEMBERS FOR THE INSTALLATION OF THE PLUMBING AND FIRE PROTECTION SYSTEMS SHALL BE PROVIDED. STRUCTURAL COMPONENTS SHALL NOT BE CUT, DRILLED OR MODIFIED IN A WAY WITHOUT THE STRUCTURAL ENGINEER'S REVIEW AND PRIOR WRITTEN APPROVAL.
6. PROVIDE NFPA APPROVED FIRE STOPPING WHERE PIPES PENETRATE FIRE RATED FLOORS AND WALLS.

1. MEP SPECIFICATIONS SHALL APPLY TO ALL WORK ON THIS DRAWING UNLESS OTHERWISE NOTED.
2. ALL CONNECTIONS BETWEEN PIPES OF DISSIMILAR MATERIALS SHALL BE MADE WITH DIELECTRIC UNIONS. PROVIDE ACCESS PANELS WHERE REQUIRED.
3. CONTRACTOR SHALL NOTIFY OWNER OF ANY REQUIRED SHUT DOWNS AND COORDINATE THESE WITH OWNER. DOWNTIME SHALL BE HELD TO A MINIMUM.
4. CONTRACTOR SHALL COORDINATE ALL WORK CLOSELY WITH EXISTING AND NEW MECHANICAL AND ELECTRICAL ITEMS.
5. ALL PROPOSED CORE DRILL LOCATIONS THROUGH (E) FLOOR SLAB ARE TO BE COORDINATED WITH AND APPROVED BY THE OWNER PRIOR TO CORING.
6. CONTRACTOR SHALL REFER TO BUILDING MANAGEMENT'S "RULES AND REGULATIONS" TO COMPLY WITH BUILDING STANDARDS.
7. COORDINATE PLUMBING FIXTURE SIZES WITH MILLWORK PRIOR TO INSTALLATION. COORDINATE ROUGH-IN ELEVATIONS WITH MOUNTING HEIGHTS.
8. DEMOLISH ANY ABANDONED PVC PIPING IN CEILING SPACE. REPLACE ANY EXISTING PVC PIPING STILL IN SERVICE WITH APPROVED MATERIALS. PROVIDE A SEPARATE LINE ITEM PRICE.
9. NEW DOMESTIC WATER SHUT-OFF VALVES TO BE NIBCO MODEL NO. T-585-66-LF. FURNISH WITH EXTENDED STEM FOR VALVES IN INSULATED LINES.
10. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATION OF ALL WALLS AND CHASES.
11. REFER TO RISER DIAGRAMS FOR PIPE SIZES NOT SHOWN ON THE DRAWINGS.
12. PER COMMERCIAL ENERGY CODE, ALL HOT WATER PIPING SHALL BE INSULATED: 12, 1-1/4" AND BELOW 1 1/2" REQUIRED, 1-1/2" AND ABOVE 2" REQUIRED PER TABLE 6.8.3. REFER TO SPECS. FOR ADDITIONAL INFORMATION.

1. PROVIDE A COMPLETE FULLY AUTOMATIC WET PIPE SYSTEM HYDRAULICALLY CALCULATED IN ACCORDANCE WITH THE STATE FIRE MARSHAL AND THE LATEST EDITION NFPA 13, 14, AND REQUIREMENTS OF ALL LOCAL AUTHORITIES HAVING JURISDICTION.
2. ALL FIRE PROTECTION EQUIPMENT, I.E. PIPING, VALVES, FITTINGS AND ACCESSORIES, ETC. SHALL BE RATED FOR A MAXIMUM WORKING PRESSURE OF 250 PSI.
3. PROVIDE PRESSURE REDUCING VALVES AT ALL SPRINKLER SYSTEM AND FIRE DEPARTMENT HOSE CONNECTIONS WHERE PRESSURES EXCEED 175 PSIG IN ACCORDANCE WITH CODE REQUIREMENTS. CONTRACTOR SHALL FIELD PRESSURE TEST SYSTEM AND DETERMINE WHERE PRESSURE REDUCING VALVES ARE REQUIRED.
4. USE PIPING AND FITTINGS FOR FIRE SUPPRESSION SYSTEMS WHICH ARE APPROVED FOR USE BY UNDERWRITERS' LABORATORIES AND FACTORY MUTUAL SYSTEM AND/OS OF THE FOLLOWING TYPES; AND IN ACCORDANCE WITH NFPA, LOCAL CODES ALL AUTHORITIES HAVING JURISDICTION.

d) BLACK STEEL PIPING: MANUFACTURED TO SATISFY ASTM STANDARDS A53 OR A135.
5. ALL SPRINKLER PIPING SHALL BE INSTALLED SO THAT ALL PORTIONS OF THE SYSTEM CAN BE DRAINED BACK THROUGH THE DRAIN VALVE WHERE REQUIRED. PROVIDE DRAIN VALVES FOR ALL TRAPPED PORTIONS OF THE SYSTEM.
6. ALL FIRE EQUIPMENT THREADS SHALL CONFORM TO LOCAL FIRE DEPARTMENT STANDARDS.
7. ALL CONTROL VALVES - CHECK VALVES AND FLOW ALARM SWITCHES LOCATED ABOVE FINISHED CEILING SHALL BE ACCESSIBLE AND HAVE A NOTIFICATION MARKING TAG AS REQUIRED FOR INSPECTION VERIFICATION.
8. CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL PLUMBING/SPRINKLER PIPING TO MAINTAIN PROPER CLEARANCES OVER AREA.

SANITARY SEWER PIPING
VENT PIPING
DOMESTIC COLD WATER
DOMESTIC HOT WATER
DOMESTIC HOT WATER RETURN
EXISTING SANITARY SEWER PIPING
EXISTING VENT PIPING
EXISTING DOMESTIC COLD WATER
EXISTING HOT WATER
EXISTING HOT WATER RETURN
NEW CONNECTION TO EXISTING
ABOVE FINISHED FLOOR
BELOW FLOOR
GATE VALVE
CHECK VALVE
PRESSURE RELIEF VALVE
UNION
PRESSURE GAUGE
THERMOMETER
CONDENSATE DRAIN LINE
EXISTING
ITEMS TO BE REMOVED
ELBOW UP
ELBOW RISE OR DN. THROUGH SLAB
FLOOR CLEANOUT
CLEANOUT
FLOOR DRAIN

PIPING MATERIAL SCHEDULE

PIPING FUNCTION	PIPING MATERIAL
SANITARY WASTE BELOW GROUND	SCHEDULE 40 PVC
SANITARY WASTE ABOVE GROUND	NO-HUB CAST IRON
SANITARY VENT	NO-HUB CAST IRON
DOMESTIC HOT & COLD WATER	COPPER, TYPE "L" HARD DRAWN
FIRE SPRINKLER ABOVE GROUND	BLACK STEEL SCHEDULE 40

NO HUB COUPLING SHALL HAVE A SHIELD CONSTRUCTED OF 304 CORRUGATED STAINLESS STEEL WITH A MINIMUM THICKNESS OF .016. COUPLING SIZE 1-1/2" - 4" SHALL HAVE FOUR (4) BANDS: APPROVED MANUFACTURES HUSKY SD 4000 AND MISSION. NO TWO BANDS ARE ACCEPT

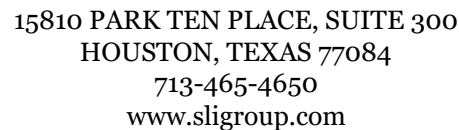
SYMBOL	DESCRIPTION	SIZE OF CONNECTION					REMARKS	WATER CONSERVATION
		TRAP	SS	SV	CW	HW		
SK-1	SINK	1 1/4"	2"	2"	1/2"	1/2"	REGENCY No. 60DI1101410K SINGLE COMPARTMENT STAINLESS STEEL DROP-IN SINK, 16 GAUGE SELF-RIMMING (13" x 19" x 18" DEEP). PROVIDE TMV-1, RIGID/SWING GOOSENECK SPOUT WITH E3-2 AERATOR, CHICAGO No. 1017, ANGLE SUPPLIES WITH STOP, 1/2" CHROME-PLATED BRASS NIPPLES TO WALL, MCGUIRE No. 151-A CRUMB CUP STRAINER, No. 8912 (1-1/2") ADJUSTABLE SEMI-CAST CHROME-PLATED BRASS P-TRAP WITH TUBING WASTE TO WALL, AND CHROME-PLATED CAST WALL FLANGE WITH SET SCREW SUPPLIES, AND P-TRAP SHALL BE INSULATED WITH TRAP WRAP BY PLUMBEREX SPECIALTY PRODUCTS, INC OR APPROVED EQUAL.	
HS-1	HAND SINK	1 1/4"	2"	2"	1/2"	1/2"	WALL MOUNTED HAND SINK. SEE ARCHITECTURAL PLANS FOR EXACT SPEC	
SK-2	3 COMPARTMENT SINK	1-1/2"	2"	2"	1/2"	1/2"	STAND ALONE 3 COMPARTMENT SINK. SEE ARCHITECTURAL PLANS FOR EXACT SPEC	
WF-1	WATER FILTER	-	-	-	3/4"	-	AQUA PURE MODEL NO 7900CLOCITM OR 7900CLOCARTM	
FD-1	FLOOR DRAIN	3"	3"	2"	1/2"	-	J.R. SMITH FIGURE No. 2005Y-A06NB-P OR APPROVED EQUAL PAINTED CAST IRON FLOOR DRAIN AND SEEPAGE FLANGE, SIZE AS NOTED ON DRAWINGS, CLAMPING UNIT, QUAD CLOSE TRAP SEAL, AND 6" RONDEE ADJUSTABLE POLISHED NICKEL BRONZE STRAINER TYPE TOP AND DEEP SEAL TRAP.	
TMV-1	THERMOSTATIC MIXING VALVE	-	-	-	1/2"	-	SYMMONS NO #8210CK THERMOSTATIC MIXING VALVE CONSTRUCTION SHALL BE ROUGH BRASS AND BRONZE WITH BRASS AND STAINLESS STEEL FLOW CONTROL COMPONENTS, WITH INTEGRAL CHECKS AND VALVES. 360 DEGREES HANDLE ADJUSTMENT FOR TEMPERATURE SELECTION. @ 110 F. MAX	
ATP-1	AUTOMATIC TRAP PRIMER	-	-	-	1/2"	-	PRECISION PRODUCTS "PRIME-RITE" TRAP PRIMER MODEL # PR01-500.	
TS-1	TIME SWITCH	-	-	-	3/4"	-	TORK ELECTROMECHANICAL 24 HOUR TIME SWITCH POWERED BY A SELF STARTING SYNCHRONOUS MOTOR. INSTALL ON WALL ADJACENT TO CIRCULATING PUMP. COORDINATE WITH ELECTRICAL AND PROVIDE FOR 120/1/60 HZ POWER REQUIREMENT.	
BFP-1	BACKFLOW PREVENTER	-	-	-	3/8"	-	WATTS No. LF7. 1/4" BACKFLOW PREVENTER WITH BRONZE. LEAD FREE.	
FD-1	FLOOR DRAIN	3"	2"	2"	1/2"	-	J.R. SMITH FIGURE No. 2005Y B06NB-P OR APPROVED EQUAL PAINTED CAST IRON FLOOR DRAIN AND SEEPAGE FLANGE, SIZE AS NOTED ON DRAWINGS, CLAMPING UNIT, TRAP PRIMER TAP, AND 6"x6" SQUARE ADJUSTABLE POLISHED NICKEL BRONZE STRAINER TYPE TOP AND DEEP SEAL TRAP.	
FS-1	FLOOR SINK	3"	2"	2"	1/2"	-	J.R. SMITH FIGURE No. 3101C-12 OR APPROVED EQUAL 8"x8" PAINTED CAST IRON FLOOR DRAIN WITH SEDIMENT BUCKET, 1/2" GRATE, SIZE AS NOTED ON PLANS, CLAMPING UNIT, TRAP PRIMER TAP AND DEEP SEAL TRAP.	

MARK	SERVICE	STORAGE IN GALLONS	RECOVERY AT 100' RISE	ELECTRICAL	ELEMENT WATTS	MAKE AND MODEL
<u>FWH-1</u>	ELECTRIC WATER HEATER	20	12 GPH	277/1ø/60Hz	6KW	A.O. SMITH MODEL NO. DEL-20. PROVIDE WITH WATERCOP LEAKSTOP+ LEAK DETECTION SYSTEM.

MARK	LOCATION	SERVICE	GPM	HEAD FT.	MIN. EFF.	HP	VOLTS/Ø	RPM	MAKE AND MODEL
<u>HWCP-1</u>	LEVEL 1	DOMESTIC HOT WATER	9	7	--	1/15	120/1Ø	1750	BELL & GOSSET SERIES 100, 1-1/4" FLANGED ALL BRONZE, INLINE TYPE

FIXTURES							
SYMBOLS	DESCRIPTION	SIZE OF CONNECTION					
		SANITARY	TRAP	VENT	C.W.	H.W.	I.W.
W C	WATER CLOSET (FLUSH VALVE)	4"	—	2"	1"	—	—
U	URINAL	2"	—	2"	3/4"	—	—
L	LAVATORY	2"	1-1/4"	1-1/4"	1/2"	1/2"	—
BT	BATH TUB	2"	1-1/2"	1-1/2"	1/2"	1/2"	—
MS	MOP SINK	—	2"	2"	1/2"	1/2"	—
SK—X"	SINK (BY ARCHITECT)	—	1-1/2"	2"	1/2"	1/2"	—
SH	SHOWER	—	2"	2"	1/2"	1/2"	—
EDF	ELECTRIC DRINKING FOUNTAIN	—	1-1/4"	1-1/4"	1/2"	—	—
DF	DRINKING FOUNTAIN	—	1-1/4"	1-1/4"	1/2"	—	1/2"

SYMBOL	DESCRIPTION	P.D.I., FIXTURE UNIT RATING	TYPE NO. PPP
<u>SA-A</u>	SHOCK ARRESTOR	1-11	SC-500
<u>SA-B</u>	SHOCK ARRESTOR	12-32	SC-750
<u>SA-C</u>	SHOCK ARRESTOR	33-60	SC-1000
<u>SA-D</u>	SHOCK ARRESTOR	61-113	SC-1250



WOODFOREST TOWN CENTER
WOODLANDS, TEXAS

E/B/E PROJECT NUMBER: 26181.00

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