PLU	IMBING PROJECT NOTES
1	ALL WORK MUST COMPLY WITH THE REQUIREMENTS OF LOCAL CODES AND ORDINANCES. WHERE INSPECTIONS ARE REQUIRED BY AUTHORITY HAVING JURISDICTION, WORK MUST NOT BE CONCEALED UNTIL INSPECTIONS AND TESTING ARE COMPLETED AND ACCEPTED.
2	PRIOR TO BID, CONTRACTOR MUST BECOME FAMILIAR WITH THE REQUIREMENTS OF THE DRAWINGS, SPECIFICATIONS, GENERAL NOTES AS WELL AS ALL OTHER NOTES SHOWN ON THE CONTRACT DOCUMENTS. VISIT THE SITE TO ESTABLISH THE EXISTING CONDITIONS PRIOR TO BID AND PRIOR TO ANY PIPE OR EQUIPMENT FABRICATION. SYSTEMS MUST BE ERECTED USING CONTRACTOR'S FIELD MEASUREMENTS FOR COORDINATION WITH EQUIPMENT, STRUCTURE, FIRE PROTECTION, COMMUNICATION, AND ELECTRICAL CONDITIONS IN THE SPACE.
3	ALL CONTRACT DOCUMENTS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRICAL RELATIONSHIPS OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, SEQUENCE, DEVICE, OPTION, FITTING, OR COMPONENT. DO NOT SCALE DRAWINGS.
4	INFORMATION AND COMPONENTS SHOWN ON DIAGRAMS OR DETAILS, BUT NOT SHOWN ON THE PLANS, AND VICE VERSA, MUST BE PROVIDED AS IF EXPRESSLY REQUIRED BY BOTH.
5	EXCEPT WHERE INDICATED OTHERWISE, THE NOTION OR DESCRIPTION OF ANY ITEM IN THE CONTRACT DOCUMENTS CARRIES WITH IT THE INSTRUCTIONS TO FURNISH AND INSTALL THE ITEM, WHETHER OR NOT THE INSTRUCTION IS EXPLICITLY STATED.
6	THE CONTRACT DOCUMENTS REFLECT A SYSTEM DESIGNED AROUND SPECIFIC REFERENCE PRODUCTS. THE SELECTION OF WHICH HAS IMPACTED THE DESIGNS OF OTHER TRADES. SOME EQUIPMENT MAY BE REQUIRED AS SCHEDULED WITH NO SUBSTITUTIONS (REFER TO EQUIPMENT SCHEDULES). FOR OTHER EQUIPMENT, IF ALTERNATE MANUFACTURERS ARE SUBMITTED OR BID, IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE ALL THE DIFFERENCE AND IMPACTS WITH ALL OTHER TRADES PRIOR TO BID, INCLUDING THE COSTS ASSOCIATED WITH REQUIRED CHANGES TO OTHER TRADES IF ALTERNATE EQUIPMENT IS BID OR INSTALLED.
7	COORDINATE PLACEMENT OF ALL PLUMBING RELATED EQUIPMENT AND DEVICES WITH OTHER TRADES. DO NOT POSITION OR INSTALL ANY PLUMBING EQUIPMENT OR DEVICES IN ANY SYSTEM IN SUCH A WAY THAT IT WILL BE INACCESSIBLE OR UN-MAINTAINABLE AFTER CONSTRUCTION IS COMPLETED.
8	NO OTHER TRADES ARE ALLOWED TO BE SUPPORTED FROM MATERIALS, EQUIPMENT OR DEVICES INSTALLED BY THE PLUMBING TRADES. LIKEWISE, ALL WORK INSTALLED BY THE PLUMBING TRADES MUST BE SUPPORTED FROM THE STRUCTURE ABOVE, FROM WALLS OR FROM THE FLOOR UNLESS OTHERWISE INDICATED.
9	REPLACE OR REPAIR ALL ARCHITECTURAL FEATURES REMOVED OR DAMAGED DURING THE COURSE OF THE WORK. REPAIR OR REPLACEMENT MUST, AS A MINIMUM, EQUAL ORIGINAL CONDITION. SPECIAL CARE MUST BE TAKEN ON THE ROOFS TO PREVENT DAMAGE. ANY DAMAGE MUST BE PROMPTLY REPAIRED AT NO EXPENSE TO THE OWNER BY AN OWNER APPROVED ROOFING CONTRACTOR.
10	ALL WIRING INSTALLED FOR CONTROLS, POWER, INTERLOCKS, ETC. MUST BE INSTALLED IN CONDUIT. MATERIALS AND INSTALLATION MUST COMPLY WITH NFPA AND NEC REQUIREMENTS, AND LOCAL CODES.
11	SEAL ALL ROOF AND WALL PENETRATIONS, FLASH AND COUNTER-FLASH ALL ROOF PENETRATIONS. MINIMUM ACCEPTABLE HEIGHT OF FLASHING IS TWELVE (12) INCHES ABOVE ROOF.
12	CONTRACTOR SHALL INSTALL STEEL PIPE SLEEVES THRU WALLS, FOOTERS, ETC. SLEEVES TO BE MINIMUM TWO (2) SIZES LARGER THAN THE SANITARY LINE, STORM LINE, AND WATER LINE.
13	COORDINATE LOCATION OF SANITARY, STORM AND WATER LINES WITH SITE UTILITIES CONTRACTOR.
14	ALL FLOOR DRAINS AND FLOOR SINKS TO BE PROVIDED WITH ASSE #1072 TRAP SEALS UNLESS OTHERWISE NOTED.
15	ALL SANITARY PIPING LOCATED IN THE RETURN AIR PLENUM SHALL BE CAST IRON. ALL AREAS ABOVE CEILING TO BE CONSIDERED A RETURN AIR PLENUM UNLESS NOTED OTHERWISE.
16	ALL FLOOR DRAINS TO BE LOCATED AT BOTTOM OF SLOPED FLOOR. BUCKET TEST WILL BE USED AND FLOOR DRAINS WILL BE REQUIRED TO BE RELOCATED IF WATER DOES NOT FLOW TO FLOOR DRAIN.
17	WALL CLEANOUTS TO BE LOCATED ABOVE FLOOD RIM OF FIXTURES.
18	VERIFY LOCATION OF EQUIPMENT CONCRETE PADS PRIOR TO INSTALLING FLOOR SINKS IN MECHANICAL ROOMS.
19	CONTRACTOR IS RESPONSIBLE TO INSTALL NEW PIPING PER CONSTRUCTION CONDITIONS
20	FIELD VERIFY INVERTS ON PLANS.

1 2

	1.1 - PLUMBING FIXTURE SCHEDULE							
MARK	FIXTURE DESCRIPTION	COLD WATER	HOT WATER	WASTE PIPE	VENT PIPE	REMARKS	MANUFACTURER	MODEL #
WC-A	WATER CLOSET	1"		4"	2"	ELONGATED RIM; SLOAN NO. WETS-2450.1010-1.28 GPF WITH SLOAN 111 MANUAL FLUSH VALVE . BEMIS MODEL NO. 1955CT	SLOAN	WETS-2450.1010-1.28 / 1955CT
WC-B	WATER CLOSET	1"		4"	2"	ELONGATED RIM; SLOAN NO. WETS-2450.1010-1.28 GPF WITH SLOAN 111 MANUAL FLUSH VALVE. BEMIS MODEL NO. 1955CT. MOUNT WC-B AT HANDICAP HEIGHT.	SLOAN	WETS-2450.1010-1.28 / 1955CT
UR	URINAL	3/4"		2"	1 1/2"	SLOAN MODEL WEUS-1000.1010- 0.125 WITH SLOAN NO. 186-0.125 GPF MANUAL FLUSH VALVE. MOUNT URINAL AT ADA HEIGHT.	SLOAN	WEUS-1000.1010-0.125
LAV-A	LAVATORY	1/2"	1/2"	1 1/2"	1 1/2"	BRADLEY WALL HUNG EXPRESS DECK LAVATORY SYSTEM MODEL EXD-2N, PROVIDE WITH AERADA 900 SERIES FAUCET WITH ACCU-ZONE INFRARED CONTROL AND S45-2678 .35 GPM AERATOR; SOAP DISPENSER 6324-68; INSTALL ASSE 1070 MIXING VALVE.	BRADLEY	EXD-2N / AERADA 900 / S45-2678 / 6324-68 / ASSE 1070
LAV-B	LAVATORY	1/2"	1/2"	1 1/2"	1 1/2"	VITREOUS CHINA WALL MOUNTED, 20" X 18", 4" FAUCET CENTERS; MODEL 0355.012 BY AMERICAN STANDARD. SLOAN HARDWIRED FAUCET, MODEL NO. ETF-8035 GPM. INSTALL ASSE 1070 MIXING VALVE. MOUNT LAV-B AT ADA HEIGHT.	AMERICAN STANDARD / SLOAN	0355.012 / EFT-80 / ASSE 1070
SINK-A	SINK	1/2"	1/2"	2"	1 1/2"	SINGLE COMPARTMENT, 19" X 20" SELF-RIMMING MODEL NO. SL-ADA-2019-A-GR BY JUST (6.5" DP), 4" CENTERLINE FAUCET HOLES, CENTER REAR DRAIN. FAUCET: (1.0 GPM) CHICAGO FAUCET MODEL 895-317GN2AE73ABCP WITH CHICAGO FAUCET BUBBLER; MODEL 748-244FHABCP, INSTALL ASSE 1070 MIXING VALVE.	JUST / CHICAGO FAUCET	SL-2019-A-GR / 895-317GN2AE73ABCP / 748-244FHABCP / ASSE 1070
SINK-B	SINK	1/2"	1/2"	2"	1 1/2"	SINGLE COMPARTMENT, 19" X 20" SELF-RIMMING MODEL NO. SL-ADA-2019-A-GR BY JUST (6.5" DP), 4" CENTERLINE FAUCET HOLES, CENTER REAR DRAIN. FAUCET: (1.0 GPM) CHICAGO FAUCET MODEL 895-317GN2AE73ABCP, INSTALL ASSE 1070 MIXING VALVE.	JUST / CHICAGO FAUCET	SL-2019-A-GR / 895-317GN2AE73ABCP / ASSE 1070
SINK-C	SINK	1/2"	1/2"	2"	1 1/2"	SINGLE COMPARTMENT, 19" X 20" SELF-RIMMING MODEL NO. SL-ADA-2019-A-GR BY JUST (6.5" DP), 4" CENTERLINE FAUCET HOLES, CENTER REAR DRAIN. FAUCET: (1.0 GPM) CHICAGO FAUCET MODEL 895-317GN2AE73ABCP; JR SMITH SOLIDS INTERCEPTOR; MODEL 8730. INSTALL ASSE 1070 MIXING VALVE.	JUST / CHICAGO FAUCET / JR SMITH	SL-2019-A-GR / 895-317GN2AE73ABCP / 8730 / ASSE 1070
SINK-D	SINK	1/2"	1/2"	2"	1 1/2"	SINGLE COMPARTMENT, 19" X 20" SELF-RIMMING MODEL NO. SL-ADA-2019-A-GR BY JUST (6.5" DP), 4" CENTERLINE FAUCET HOLES, CENTER REAR DRAIN. FAUCET: (1.0 GPM) CHICAGO FAUCET MODEL NO. 895-317GN2AE73ABCP, INSTALL ASSE 1070 MIXING VALVE.	JUST / CHICAGO FAUCET	SL-ADA-2019-A-GR / 895-317GN2AE73ABCP / ASSE 1070
MB	MOP BASIN	1/2"	1/2"	3"	1 1/2"	A MUSTEE MODEL NO. 63M, 24"X24", MOLDED FIBERGLASS, WITH NO. 63.600A SERVICE FAUCET, 65.700 HOSE AND HOSE BRACKET, 65.600 MOP HANGER, 67.2436 WALL GUARDS, AND 63.401 BUMPER GUARD.	MUSTEE	63M
EWC-A	ELECTRIC WATER COOLER	1/2"		1 1/2"	1 1/2"	SURFACE MOUNTED, HI-LO WITH BOTTLE FILLER; WITH STAINLESS STEEL TOP, ELEVATED ANTI-SQUIRT BUBBLER WITH STREAM GUARD, AUTOMATIC STREAM REGULATOR, MOUNTING BRACKET, REFRIGERATED WITH AIR COOLED CONDENSER; MODEL NO. PG8EBFSL BY OASIS.	OASIS	PG8EBFSL
SHR	SHOWER	1/2"	1/2"	3"	1 1/2"	CLARION BATHWARE NO. 3837LBF, FIBERGLASS, LEFT FIXTURE WALL WITH #503218 GRAB BAR, #5018 GRAB BAR, #660 SOAP DISH, #400-33.5"-SDL FOLDING SEAT, #CH-SSMV-1 MIXING VALVE, #HHS-30CE (1.5 GPM) HAND HELD SHOWER WITH STAINLESS STEEL GLIDE RAILS, #CR-35 1/2 CURTAIN ROD AND 2" BRASS DRAIN.	CLARION BATHWARE	3837LBF
HB	HOSE BIBB	3/4"				CHICAGO FAUCET NO. 952, CHROME FINISH WITH VACUUM BREAKER.	CHICAGO FAUCET	952
WH-A	WALL HYDRANT	3/4"				BRONZE BODY, STAINLESS STEEL BOX, BRONZE PARTS, HOSE CONNECTION, INTERGRAL VACUUM BREAKER AND OPERATING KEYLOCK, ZURN MODEL NO. Z-1350 BY ZURN	ZURN	Z-1350
WH-B	WALL HYDRANT	3/4"				QUATER TURN NON-FREEZE WALL HYDRANT WITH INTEGRAL VACUUM BREAKER, STAINLESS STEEL BOX, "T"-HANDLE KEY AND HOSE CONNECTION; J.R. SMITH MODEL NO. 5509QT.	J.R. SMITH	5509QT

PLUMBING LEGEND

SANITARY SEWER	— SAN ————	
STORM SEWER	— ST ———	
GREASE LADEN WASTE	- GREASE	
VENT PIPING	— V ———	
PUMP DISCHARGE	— PD ———	
DRAIN LINE	— D ———	
COLD WATER	— CW —	
	— HW ————	
HOT WATER RETURN	— HWR————	
GAS PIPING	— G ———	
FIRE LINE	— F ———	
SPRINKLER PIPING	— SP ———	
ROOF DRAIN LEADER		
EMERGENCY ROOF DRAIN LEADER		
	— 🖂 —	
CHECK VALVE		
BALANCING VALVE	<u> </u>	
PRESSURE REDUCING VALVE	—-×	
REDUCED PRESS. BACKFLOW PREVENTOR		
TEMPERATURE GAUGE		
PRESSURE GAUGE		
CLEANOUT		
FLOOR DRAIN		— F.D.
ROOF DRAIN		— R.D.
DOWNSPOUT		— D.S.
POLYPROPLENE PIPING		— P.P.
CAST IRON		— C.I.
STAINLESS STEEL		— S.S.
SQUARE FOOTAGE		-
CONNECT TO EXISTING		— C.T.X.

PLUMBING ABBREVIATIONS				
SYMBOL	DESCRIPTION			
BFF	BELOW FINISHED FLOOR			
СО	CLEAN OUT			
WH	WALL HYDRANT			
CTE	CONNECT TO EXISTING			
CW	COLD WATER			
HWH	DOMESTIC WATER HEATER			
EC	ELECTRICAL CONTRACTOR			
EEW	EMERGENCY EYEWASH			
ETR	EXISTING TO REMAIN			
FD	FLOOR DRAIN			
WH	FREEZE PROOF HOSE BIBB WALL HYDRANT			
G	NATURAL GAS			
GC	GENERAL CONTRACTOR			
GPM	GALLONS PER MINUTE			
HB	HOSE BIBB			
HW	HOT WATER			
INV	INVERT			
LAV	LAVATORY			
LF	LINEAL FEET			
MAX	MAXIMUM			
MC	MECHANICAL CONTRACTOR			
MH	MANHOLE			
MIN	MINIMUM			
Р	PUMP			
PC	PLUMBING CONTRACTOR			
PD	PUMP DISCHARGE			
PRV	PRESSURE REGULATING VALVE			
PSI	POUNDS PER SQUARE INCH			
PVC	POLYVINYL CHLORIDE			
RD	ROOF DRAIN			
ERD	EMERGENCY ROOF DRAIN			
HWR	RECIRCULATING HOT WATER			
FS	FLOOR SINK			
SAN	SANITARY SEWER			
ST	STORM PIPING			
TW	TEMPERED WATER			
UR	URINAL			
V	VENT PIPING			
VTR	VENT THROUGH ROOF			
WC	WATER CLOSET			
°F	DEGREES FAHRENHEIT			
Ø	DIAMETER			
G	NATURAL GAS			

Sheet Number	Sheet Name		
P000	PLUMBING LEGENDS, SYMBOLS AND ABBREVIATIONS		
P001	COMMON DETAILS		
P002	COMMON DETAILS		
P101-A	FIRST FLOOR PLAN - SANITARY - AREA - A		
P101-B	FIRST FLOOR PLAN - SANITARY - AREA - B		
P101-C	FIRST FLOOR PLAN - SANITARY - AREA - C		
P102-A	SECOND FLOOR PLAN - SANITARY - AREA - A		
P102-C	SECOND FLOOR PLAN - SANITARY - AREA - C		
P201-A	FIRST FLOOR PLAN - PLUMBING - AREA - A		
P201-B	FIRST FLOOR PLAN - PLUMBING - AREA - B		
P201-C	FIRST FLOOR PLAN - PLUMBING - AREA - C		
P202-A	SECOND FLOOR PLAN - PLUMBING - AREA - A		
P202-C	SECOND FLOOR PLAN - PLUMBING - AREA - C		
P301	ENLARGED KITCHEN PLAN		
P401	SANITARY ISOMETRICS - AREA - A		
P402	SANITARY ISOMETRICS - AREA - B		
P403	SANITARY ISOMETRICS - AREA - C		
P404	SANITARY ISOMETRICS - KITCHEN		

NATURAL GAS LOAD

HWH-A	150 CFH
HWH-B	150 CFH
BOILER-1	3,000 CFH
BOILER-2	3,000 CFH
MAKE-UP AIR UNIT	258.5 CFH
KITCHEN EQUIPMENT	497.4 CFH
GAS GENERATOR	1,915 CFH
	TOTAL 8970.9 CFH

SHOCK ABSORBER SIZING CHART					
FIXTURE UNIT RANGES	MODEL NUMBER	INLET CONNECTION SIZE (INCHES)			
1-11	100	3/4			
12-32	200	3/4			
33-60	300	1			
61-113	400	1			
114-154	500	1			
155-330	600	1			
BASED ON ZURN SHOP	(TROL # Z1700 WIT	TH ASSE 1010 LISTING.			

PIPING SYMBOLS	
	NEW PIPING
>	DIRECTION OF FLOW
>	REDUCER OR INCREASER
()	TOP CONNECTION, 45° OR 90°
<u>L</u>	BOTTOM CONNECTION, 45° OR 90°
, i ,	SIDE CONNECTION
	RISER DOWN (ELBOW)
0	RISER UP (ELBOW)
	RISER DOWN (IN PIPE)
O	RISER UP (IN PIPE)
	RISE OR DROP IN PIPE
ł,	ELBOW
;	PIPE BREAK
	CAP ON END OF PIPE
	UNION
——————————————————————————————————————	BALL VALVE OR GENERIC VALVE
——————————————————————————————————————	GAS COCK
<u> </u>	BALANCE VALVE
&	AUTOFLOW SELF BALANCING VALVE
	PRESSURE REDUCING VALVE
&	PRESSURE REGULATING VALVE
\$	GAS PRESSURE REGULATOR
<u>I²I</u>	STRAINER
h	THERMOMETER
h	

HOT AND COLD WATER BRANCH RUN-OUT SCHEDULE					
SMALL FI	TURES	FLUSH-VALVE FIXTURES			
NO. FIXTURES	LINE SIZE	NO. FIXTURES	LINE SIZE		
1	1/2"	1	1"		
2	3/4"	2	1-1/2"		
3-5	1"	3-7	2"		
6-9	1-1/4"	8-14	2-1/2"		
10-16	1-1/2"	15-34	3"		
17-50	2"	-	-		
51-107	2"	-	-		
108-173	2-1/2"	-	-		
NOTES:					
1. SIZING ON DRAWING SUPERSEDES THE ABOVE SCHEDULE					
2. NOTE: FOR BRANCHES WHERE URINALS ARE THE ONLY FIXTURES BEING SERVED, ADJUST LINE SIZING BY 0.75					

1 2 3 4 5 14

PROJECT NOTES UST COMPLY WITH THE REQUIREMENTS OF LOCAL CODES AND S. WHERE INSPECTIONS ARE DECOME FAMILIAB WITH THE UST COMPLETED AND ACCEPTED		PLUMBING ABBREVIATIONSSYMBOLDESCRIPTICBFFBELOW FINISHED FICOMO.C.EAN OUTWHWALL HYDRAMCTECONNECT TO EXISCWCOLD WATERHWHDOMESTIC WATER HEEWELECTRICAL CONTRAFDFELCTRICAL CONTRAGCGENERAL CONTRAL GASGCGENERAL CONTRALGRGENERAL CONTRALGRGENERAL CONTRALGRGENERAL CONTRALGRGENERAL CONTRALGRGENERAL CONTRALGRGENERAL CONTRALGRGALLONS PER MINHBHOSE BIBBHWHOT WATERNWINVERTLAVLAVATORYLFLINEAL FEETMAXMAXIMUMMCMECHANICAL CONTRAPDPUMPPCPLUMBING CONTRALPDPUMPPCPLUMBING CONTRALPDPUMPPCPLUMBING CONTRALPDPUMPPCPLUMBING CONTRALPDPUMPPCPLUMBING CONTRALPDPUMPPVCPOLINDS PER SOLARPVCPOLINDS PER SOLARPNPOLINDS	LOOR F TING EATER ACTOR /ASH AIN /ALL HYDRANT /ALL HYDRANT /TOR UTE ACTOR G VALVE E INCH NDE DRAIN WATER FR DOF T HEIT	<section-header><section-header><section-header><section-header><section-header><section-header><section-header><text><text><text><text><text><text></text></text></text></text></text></text></section-header></section-header></section-header></section-header></section-header></section-header></section-header>	Image: state
Image: Second State	1955CT	MODEL # Enum-of /ETS-2450.1010-1.28 / 1955CT SMALL FIXTURES /ETS-2450.1010-1.28 / 1955CT SMALL FIXTURES /EUS-1000.1010-0.125 NO. FIXTURES /EUS-1000.1010-0.125 1 /CD-2N / AERADA 900 / 5-2678 / 6324-68 / ASSE 1070 2 55.012 / EFT-80 / ASSE 1070 3-5 55.012 / EFT-80 / ASSE 1070 10-16 55.012 / EFT-80 / ASSE 1070 17-50 SL-2019-A-GR / 5-317GN2AE73ABCP / 8-244FHABCP / ASSE 1070 51-107 SL-2019-A-GR / 5-317GN2AE73ABCP / ASSE 1070 108-173 SL-2019-A-GR / 5-317GN2AE73ABCP / ASSE 1070 1. SIZING ON DRAWING SUPERSEDES THE AR SL-2019-A-GR / 5. NOTE: FOR BRANCHES WHERE URINAL	1 1" 2 1-1/2" 3-7 2" 8-14 2-1/2" 15-34 3" - - - - - - - - - -	PIPING SYMBOLS Image: Construction of Flow REDUCER OR INCREASER Image: Construction, 45° OR 90° Image: Constreconstreconstruction, 45° OR 90° <t< th=""><th>a a a b b b a c massillon city schools massillon city schools c massillon city schools a c a a c a b c a a c a b c a a c a b c a a c a b c a a</th></t<>	a a a b b b a c massillon city schools massillon city schools c massillon city schools a c a a c a b c a a c a b c a a c a b c a a c a b c a a