## PLUMBING PROJECT NOTES 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. 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. 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 INFORMATION AND COMPONENTS SHOWN ON DIAGRAMS OR DETAILS, BUT NOT SHOWN ON THE PLANS, AND VICE VERSA, MUST BE PROVIDED AS IF EXPRESSLY 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. 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. 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. 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 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. 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. 5 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. WALL CLEANOUTS TO BE LOCATED ABOVE FLOOD RIM OF FIXTURES. 19 VERIFY LOCATION OF EQUIPMENT CONCRETE PADS PRIOR TO INSTALLING FLOOR SINKS IN MECHANICAL ROOMS. 20 FIELD VERIFY INVERTS ON PLANS.

21 CONTRACTOR IS RESPONSIBLE TO INSTALL NEW PIPING PER CONSTRUCTION

## PLUMBING LEGEND

SANITARY SEWER	— SAN ————		
STORM SEWER	— ST ————		
KITCHEN WASTE -	— KW ———		
GREASE LADEN WASTE	— GREASE ————		
VENT PIPING ————————————————————————————————————	— V ————		
PUMP DISCHARGE ————————	— PD ————		
DRAIN LINE ————————————————————————————————————			
COLD WATER —			
HOT WATER ———————			
HOT WATER RETURN ——————	— HWR———		
GAS PIPING ————————————————————————————————————			
FIRE LINE ————————————————————————————————————	— F ———		
SPRINKLER PIPING ———————	— SP ————		
ROOF DRAIN LEADER			
EMERGENCY ROOF DRAIN LEADER ————			
SHUT OFF VALVE ————————————————————————————————————			
CHECK VALVE  BALANCING VALVE  PRESSURE REDUCING VALVE	$\overline{}$		
BALANCING VALVE ————————————————————————————————————	$\longrightarrow$		
PRESSURE REDUCING VALVE			
REDUCED PRESS. BACKFLOW PREVENTOR			
REDUCED PRESS. BACKFLOW PREVENTOR DOUBLE CHECK VALVE ASSEMBLY			
TEMPERATURE GAUGE ————————		T.0	
PRESSURE GAUGE		——— P.0	
DRAIN VALVE ————————————————————————————————————		D.'	
HOSE VALVE		——— H.	
HOSE BIBB		——— Н.Е	
CLEANOUT		C.0	
MANHOLE —		——— М.Н	
FLOOR SINK —			
ROOF DRAIN ————————————————————————————————————		R.I	
		D.\$ P.F	
POLYPROPLENE PIPING		——— Р.Н ——— С	
CAST IRON ————————————————————————————————————			
SQUARE FOOTAGE		S.I	

SYMBOL	DESCRIPTION	
BFF	BELOW FINISHED FLOOR	
CO	CLEAN OUT	
WH	WALL HYDRANT	
CW	COLD WATER	
HWH	DOMESTIC WATER HEATER	
EC	ELECTRICAL CONTRACTOR	
FD	FLOOR DRAIN	
WH	FREEZE PROOF HOSE BIBB WALL HYDRANT	
G	NATURAL GAS	
GC	GENERAL CONTRACTOR	
GPM	GALLONS PER MINUTE	
НВ	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	

**PLUMBING ABBREVIATIONS** 

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-2450.1001-1.28 WITH SLOAN 111 MANUAL FLUSH VALVE. BEMIS MODEL NO. 1955CT.	SLOAN	WETS-2450.1001-1.28 / 1955CT
WC-B	WATER CLOSET	1"		4"	2"	ELONGATED RIM; SLOAN NO. WETS-2050.1001-1.28 MOUNT WC-B AT HANDICAP HEIGHT. BEMIS MODEL NO. 1955CT	SLOAN	WETS-2450.1001-1.28 / 1955CT
UR	URINAL	3/4"		2"	1 1/2"	SLOAN MODEL SU-1009, 0.125 GPM. MOUNT URINAL-B AT HANDICAP HEIGHT. SLOAN NO. 186-0.125 XL FLUSH VALVE WITH OPTIMA SMOOTH #186-0.125 DBP SMOOTH HW SENSOR OPERATOR.	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 NO. 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-2019-A-GR BY JUST (7.5" DP), 4" CENTERLINE FAUCET HOLES, CENTER 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-2019-A-GR BY JUST (7.5" DP), 4" CENTERLINE FAUCET HOLES, CENTER 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-2019-A-GR BY JUST (7.5" DP), 4" CENTERLINE FAUCET HOLES, CENTER DRAIN. FAUCET: (1.0 GPM) CHICAGO FAUCET MODEL 895-317GN2AE73ABCP; J.R. SMITH SOLIDS INTERCEPTOR MODEL 8730. INSTALL ASSE 1070 MIXING VALVE.	JUST / CHICAGO FAUCET / J.R. SMITH	SL-2019-A-GR / 895-317GN2AE73ABCP / 8730 / ASSE 1070
SINK-D	SINK	1/2"	1/2"	2"	1 1/2"	SINGLE COMPARTMENT, 21" X 22" SELF-RIMMING MODEL NO. SL-ADA-2122-A-GR BY JUST (5 ½" DEEP), 4" CENTERLINE FAUCET HOLES, CENTER REAR DRAIN. FAUCET: (1.0 GPM) CHICAGO FAUCET MODEL NO 895-317GN2AE35ABCP. INSTALL ASSE 1070 MIXING VALVE.	JUST / CHICAGO FAUCET	SL-ADA-2019-A-GR / 895-317GN2AE35ABCP / 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	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 COILED CONDENSER; MODEL NO. P8BFSL BY OASIS.	OASIS / ELKAY / HANSEY / TALOR	P8BFSL
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 HEAD 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.	ZURN	Z-1350
WH-B	WALL HYDRANT	3/4"				QUATER TURN NON-FREEZEWALL HYDRANT WITH INTERGRAL VACUUM BREAKER, STAINLESS STEEL BOX, "T"-HANDLE KEY AND HOSE CONNECTION; J.R. SMITH 5509QT.	J.R. SMITH	5509QT

HOT AND COLD WATER BRANCH RUN-OUT SCHEDULE				
SMALL FIXTURES FLUSH-VALVE FIXTURES				
NO. FIXTURES	NO. FIXTURES LINE SIZE		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 S	UPERSEDES THE ABOV	/E SCHEDULE		
2. NOTE: FOR BRANCH	HES WHERE URINALS A	RE THE ONLY FIXTURES BEI	NG SERVED,	

ADJUST LINE SIZING BY 0.75

SHOCK ABSORBER SIZING CHART					
LET CONNECTION SIZE (INCHES)					
3/4					
3/4					
1					
1					
1					
1					

BASED ON ZURN SHOKTROL # Z1700 WITH ASSE 1010 LISTING.

INDEX OF PLUMBING DRAWINGS				
Sheet Number	Sheet Name			
P-000	PLUMBING LEGENDS, SYMBOLS AND ABBREVIATION			
P-001	COMMON DETAILS			
P-002	COMMON DETAILS			
P-101-A	FIRST FLOOR PLAN - SANITARY - UNIT A			
P-101-B	FIRST FLOOR PLAN - SANITARY - UNIT B			
P-101-C	FIRST FLOOR PLAN - SANITARY - UNIT C			
P-102-A	SECOND FLOOR PLAN - SANITARY - UNIT A			
P-102-C	SECOND FLOOR PLAN - SANITARY - UNIT C			
P-201-A	FIRST FLOOR PLAN - PLUMBING - UNIT A			
P-201-B	FIRST FLOOR PLAN - PLUMBING - UNIT B			
P-201-C	FIRST FLOOR PLAN - PLUMBING - UNIT C			
P-202-A	SECOND FLOOR PLAN - PLUMBING - UNIT A			
P-202-C	SECOND FLOOR PLAN - PLUMBING - UNIT C			
P-301	ENLARGED KITCHEN PLAN			
P-401	SANITARY ISOMETRIC - UNIT A			
P-402	SANITARY ISOMETRIC - UNIT B			
P-403	SANITARY ISOMETRIC - UNIT C			
P-501	ROOF PLAN			
PLUMBING: 18				

## NATURAL GAS LOAD

HWH-A -

GENERAL NOTES : SEE PLUMBING SPECIFICATIONS FOR EQUAL LISTED MANUFACTURERS FOR ALL SCHEDULED EQUIPMENT

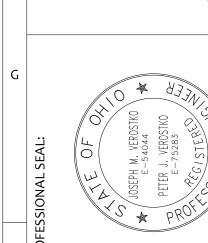
HWH-B —	150 CFH
BOILER-1	3,000 Cl
BOILER-2	3,000 C
MAKE-UP AIR UNIT	258.5 C
KITCHEN EQUIPMENT —	497.4 C
GAS GENERATOR —	1,915 Cl
	TOTAL 8,970.9

ROOF DRAINS & VENT LINES THRU ROOF INSTALLED BY PLUMBING CONTRACTOR. FLASHING SUPPLIED BY PLUMBING CONTRACTOR AND INSTALLED BY ROOF CONTRACTOR. ALL PENTRATIONS THRU ROOF BY ROOFING CONTRACTOR.

GAS LINE SIZING BASED ON 250 FEET OF 2 PSI GAS. FINAL CONNECTION TO EQUIPMENT WITH UNION, SHUT-OFF VALVE AND DIRT LEG.

2203-1

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PROJECT NO 2203-1 DRAWN BY JRS

CHECKED BY Checker

PLUMBING LEGENDS, SYMBOLS AND ABBREVIATIONS SCALE: As indicated