

GENERAL PLUMBING NOTES

- IN THE PREPARATION OF THESE PLANS, THE ENGINEER HAS USED CERTAIN ABBREVIATIONS, CONVENTIONS, AND SYMBOLS. THE MEANING OF WHICH ARE ILLUSTRATED AND EXPLAINED WITHIN THE LEGEND.
- PLANS ARE DIAGRAMMATIC ONLY. THEY ARE INTENDED TO INDICATE CAPACITY, SIZE, LOCATION, DIRECTION AND GENERAL ARRANGEMENT, BUT NOT EXACT DETAILS OF CONSTRUCTION. THE FACT THAT ONLY CERTAIN FEATURES OF THE INSTALLATION ARE INDICATED MUST NOT BE TAKEN TO MEAN THAT OTHER FEATURES WILL NOT BE REQUIRED.
- COORDINATE WITH THE OTHER TRADES TO ENSURE THAT EACH TRADE SHALL HAVE SUFFICIENT SPACE TO INSTALL THEIR EQUIPMENT (DUCTWORK, PIPING, ELECTRICAL WORK, ETC.).
- ONCE THE PIPING HAS ENTERED EACH UNIT FROM BELOW THE FLOOR SLAB, PIPING SHALL BE RUN ABOVE THE CEILING IN EACH UNIT UNLESS NOTED OR INDICATED OTHERWISE.
- VERIFY ALL DIMENSIONS FROM ARCHITECTURAL PLANS AND FIELD DIMENSIONS.
- ALL RISES AND DROPS IN PIPING ARE NOT NECESSARILY SHOWN
- PROVIDE STOP OR ANGLE VALVES ON EACH WATER CONNECTION TO EACH PLUMBING FIXTURE.
- PROVIDE ALL STRUCTURAL MEMBERS, SUPPORT BRACKETS, FLASHING, HARDWARE, ETC. REQUIRED TO INSTALL A COMPLETE SYSTEM.
- PROVIDE CHROME PLATED ESCUTCHEON PLATES AT ALL EXPOSED WALL PENETRATIONS AND CEILING PENETRATIONS.
- PROVIDE CLEANOUTS ON SANITARY LINES AND CONDENSATE DRAIN LINES AS REQUIRED BY CODE.
- PROVIDE ACCESS PANELS FOR ALL SHUT-OFF VALVES LOCATED ABOVE GYPSUM BOARD CEILINGS. COORDINATE WITH GENERAL CONTRACTOR.

GENERAL SYMBOLS

	PLAN OR DETAIL NO. SHEET NUMBER
	KEYED NOTE NUMBER
	REVISION NUMBER
	BUILDING NORTH ARROW

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
BTU	BRITISH THERMAL UNIT
CONN	CONNECTION
CW	COLD WATER
ED	EQUIPMENT DRAIN
EWC	ELECTRIC WATER COOLER
FL	FLOOR
FU	FIXTURE UNIT
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
HW	HOT WATER
HWR	HOT WATER RETURN
IN	INCHES
LAV	LAVATORY
MOP	MOP SINK
MIN	MINIMUM
PC	PLUMBING CONTRACTOR
SAN OR S	SANITARY
SK	SINK
TP	TRAP PRIMER
V	VENT
VTR	VENT TO ROOF
WC	WATER CLOSET
WH	WALL HYDRANT
WHA	WATER HAMMER ARRESTOR
WTR	WATER
W/	WITH
W/O	WITHOUT
W	WASTE
DN	DOWN
HW	HOT WATER
HWR	HOT WATER RETURN
CO	CLEANOUT
WCO	WALL CLEANOUT

PLUMBING SYMBOLS LEGEND

	COLD WATER PIPE
	HOT WATER PIPE
	HOT WATER RETURN PIPE
	EXISTING COLD WATER
	EXISTING HOT WATER
	EXISTING HOT WATER RETURN
	SOIL OR WASTE PIPE
	EXISTING SOIL OR WASTE PIPE
	VENT PIPE
	EXISTING VENT PIPE
	CHILLED WATER RETURN PIPE
	CHILLED WATER SUPPLY PIPE
	CONDENSER WATER PIPE
	COOLING WATER RETURN PIPE
	COOLING WATER SUPPLY PIPE
	STORM
	FIRE
	TURNUED UP
	TURNUED DOWN
	TEE, OUTLET DOWN
	TEE, OUTLET UP
	TEMPERATURE AND PRESSURE RELIEF DRAIN PIPING
	EMERGENCY DRAIN PAN PIPING
	GATE VALVE
	PRESSURE RELIEF VALVE
	BALL VALVE
	PLUMBING FIXTURE DESIGNATION (UNDER LINED)
	CONNECT TO EXISTING

SOME SYMBOLS MAY NOT BE USED IN THIS PROJECT

PLUMBING FIXTURE SCHEDULE

DESIGNATION	MANUFACTURER	MODEL #	FIXTURE DESCRIPTION	CONNECTION SCHEDULE			
				WASTE	VENT	CW	HW
WC-1	AMERICAN STANDARD	*CADET PRO* 215AA.104	16 1/2" HIGH VITREOUS CHINA WATER CLOSET W/ ELONGATED BOWL (ADA) LOW CONSUMPTION FLUSH TANK (1.28 GPF), 12" ROUGH-IN. SEAT (NO LID) - ELONGATED - OPEN FRONT-STAINLESS STEEL, CHECK HINGE CENTOCO SERIES #500STSCC	3"	2"	1/2"	--
WC-2	AMERICAN STANDARD	*CADET PRO* 215CA.104	15" HIGH VITREOUS CHINA WATER CLOSET, W/ ELONGATED BOWL, LOW CONSUMPTION FLUSH TANK (1.28 GPF), 12" ROUGH-IN. SEAT (NO LID) - OPEN FRONT - STAINLESS STEEL, CHECK HINGE, CENTOCO #500STSCC	3"	2"	1/2"	--
L-1	AMERICAN STANDARD	*AQUALYN* 0476.028	VITREOUS CHINA COUNTER TOP LAVATORY. ELECTRONIC SENSOR FAUCET - 4" CENTERSET, ZURN Z6915-XL-CWB W/ ZW3870XLT (ASSE 1070 LISTED) TEMP. MIXING VALVE 6000-HW6 POWER CONVERTER W/ MINI JUNCTION BOX FOR EACH GROUP OF 2 OR 4 CLASSROOM LAVATORIES TRAP - 1 1/4" CAST BRASS WITH C.O. PLUG SUPPLY - 3/8" BRASSCRAFT QUARTER TURN ANGLE-TYPE STOPS	2"	1 1/4"	1/2"	1/2"
L-2	AMERICAN STANDARD	*LUCERNE* 0355.012	VITREOUS CHINA WALL-HUNG LAVATORY (HANDICAP) MANUAL FAUCET - 4" CENTERSET, ZURN Z81104-XL W/ 4" WRIST LEVER HANDLES TRAP - 1 1/4" CAST BRASS WITH C.O. PLUG SUPPLY - 3/8" BRASSCRAFT QUARTER TURN ANGLE-TYPE WITH STOPS. PROVIDE OFFSET TAILPIECE INSULATE TRAP OUTLET & HW SUPPLY TO MEET A.D.A.	2"	1 1/4"	1/2"	1/2"
EWC-1	ELKAY	EZSTL8C	ELECTRIC WATER COOLER W/DUAL SPLIT LEVEL BASINS (BARRIER FREE) 8.0 GPH CAPACITY, 4.0 F.L.A., 115V -1PH - 60HZ.	2"	1 1/4"	1/2"	--
FD-1	ZURN	Z-415 W/ TYPE 'B' STRAINER	FLOOR DRAIN W/ 5" NICKALOY STRAINER TOP PROVIDE AUXILIARY INLET FITTING FOR TRAP PRIMER CONNECTION	3"	2"	--	--
FD-2	ZURN	Z-415 W/ TYPE 'E' STRAINER	FLOOR DRAIN W/ 5" NICKALOY STRAINER TOP W/ FUNNEL PROVIDE AUXILIARY INLET FITTING FOR TRAP PRIMER CONNECTION	3"	2"	--	--
EWH-1	A.O. SMITH	DEN-52-4.5	52-GALLON COMMERCIAL ELECTRIC WATER HEATER (2) 4.5 KW NON-SIMULTANEOUS OPER. 208V - 1PH - 60HZ, 21.6 AMPS SET WATER TEMP. CONTROL TO 120° F (PROVIDE MIXING VALVE FOR 120° F TO 105° F)	--	--	3/4"	3/4"
S-1	JUST	SL-1515-A-GR	SINGLE-COMPARTMENT, STAINLESS STEEL SINK WITH SINGLE CENTERED HOLE ELECTRONIC SENSOR FAUCET - 4" CENTERSET, ZURN Z6920-XL-CWB W/ ZW3870XLT (ASSE 1070 LISTED) TEMP. MIXING VALVE PROVIDE P6000-HW6 POWER CONVERTER W/ MINI JUNCTION BOX FOR EACH GROUP OF 2 OR 4 CLASSROOM LAVATORIES SUPPLY - 3/8" BRASSCRAFT QUARTER TURN ANGLE-TYPE STOPS TRAP - 1 1/2" CAST BRASS WITH C.O. PLUG	2"	1 1/2"	1/2"	1/2"
S-2	JUST	SL-2131-A-GR	SINGLE-COMPARTMENT, STAINLESS STEEL SINK MANUAL FAUCET - 8" CENTERS, CHICAGO 201-AABCP, 9-1/2" SWING SPOUT, 2.2 GPM. CUP STRAINER - (1) JUST J-35 SUPPLY - 3/8" BRASSCRAFT QUARTER TURN ANGLE-TYPE STOPS TRAP - 1 1/2" CAST BRASS WITH C.O. PLUG	2"	1 1/2"	1/2"	1/2"
S-3	ELKAY	LTR632210	3-COMPARTMENTS, STAINLESS STEEL SINK W/LUSTERTONE FINISH (2) TWO MANUAL FAUCET - 8" CENTERS, CHICAGO 201-AABCP, 9-1/2" SWING SPOUT, 2.2 GPM. DRAIN - ELKAY LK99 x3. SUPPLY - 1/2" BRASSCRAFT QUARTER TURN ANGLE-TYPE STOPS TRAP - 1 1/2" CAST BRASS WITH C.O. PLUG	2"	1 1/2"	1/2"	1/2"
MS-1	FIAT	MSB 2424	FLOOR-MOUNTED MOLDED STONE MOP BASIN FAUCET - FIAT 830-AA FURNISH WALL-MOUNTED MOP HANGER	2"	1 1/2"	1/2"	1/2"
MV	ZURN	ZW3870XLT	THERMOSTATIC MIXING VALVE, ASSE 1070 LISTED	--	--	--	--
SA	ZURN	Z-1700 SERIES	WATER HAMMER ARRESTOR. SIZE PER P.D.I. WH-201 VERIFY THAT COMPONENT IS ACCESSIBLE.	--	--	--	--
IB-1	SPECIALTY PRODUCTS	OB-817 / OBFS-8170-LL	ICE MAKER BOX WITH INTEGRAL WATER HAMMER ARRESTORS. PROVIDE FIRE RATED BOX FOR FIRE RATED WALLS AS SHOWN IN DRAWINGS.	--	--	1/2"	--
WCO	ZURN	Z-1441	WALL CLEANOUT - PROVIDE SCREW COVER MATCH SIZE OF PIPE.	--	--	--	--
FCO	ZURN	Z-1400	FLOOR CLEANOUT - PROVIDE SCREW COVER TO MATCH SIZE OF PIPE.	--	--	--	--
WMB	SPECIALTY PRODUCTS	OB-207	WASHING MACHINE BOX WITH INTEGRAL WATER HAMMER ARRESTORS.	2"	1 1/2"	1/2"	1/2"
RCP-1	TACO	005-F	DOMESTIC HOT WATER RECIRCULATION PUMP 2 GPM AT 10 FT HD. 1/35 HP, 115V - 1PH - 60HZ, 0.52 FULL LOAD AMPS	--	--	--	3/4"
GD-1	INSINKERATOR	BADGER 5XP	GARBAGE DISPOSER WITH AUX CONNECTION FOR DISHWASHER, 3/4 HP, 1PH, RESIDENTIAL	1 1/2"	1 1/2"	--	--
WH-1	ZURN	Z-1321	FROST-PROOF, ANTI-SIPHON WALL HYDRANT	--	--	3/4"	--
LT	ENVIRONMENTAL ENHANCEMENTS	LUV-R	LINT FILTER	1"	--	--	--
GI	ZURN	GT2700-15	GREASE INTERCEPTOR, FLOW RATE 15 GPM, GREASE CAPACITY 30 LBS. PROVIDE FLOW CONTROL DEVICE AND CLEANOUT PER INSTALLATION INSTRUCTIONS.	2"	--	--	--
TP-1	ZURN	Z-1022	AUTOMATIC TRAP PRIMER WITH INTEGRAL VACUUM BREAKER AND GASKETED COVER. PROVIDE CHROME PLATED FINISH FOR EXPOSED INSTALLATIONS AND ACCESS DOOR FOR CONCEALED INSTALLATIONS. PROVIDE DU-MULTIPLE OUTLET CONNECTION FOR TRAP PRIMERS SERVING MORE THAN ONE DRAIN.	--	--	1/2"	--
TP-2	PRECISION PLUMBING PRODUCTS	PR-500 (w/ DU-U/DU-4 WHERE NECESSARY)	AUTOMATIC TRAP PRIMER.	--	--	1/2"	--

GREASE INTERCEPTOR CALCULATION

Project: St. John Paul II Early Learning Center
JobNo.: 17081

KITCHEN SINK - 3 COMPARTMENT

Dimensions of each compartment (inches)	Length	Width	Depth	Volume
	16.00	16.00	10.00	2560.00
Number of compartments				3
Total volume in Cubic Inches (Each Compartment Volume x No. of Compartments)				7680
Capacity in Gallons (1 Gallon = 231 Cubic Inches)				33.2468
Actual Drainage Load in Gallons (75% of fixture Capacity)				24.9351
Flow Rate GPM (at an Acceptable drainage period = 2 minutes)				12.4675
Select Interceptor at rated capacity of not less than 40% of the fixture capacity in gallons				13.2987
Provide a Single Fixture Grease Interceptor Sized with a Minimum GPM Flow Rate of...				14

PLUMBING FIXTURE DEMAND TABULATION

Project Name: ST. JOHN PAUL II EARLY LEARNING CENTER
Project No.: 17081
Date: August 31, 2017

BUILDING TYPE: NEW
PREDOMINANTLY: FLUSH TANK

FIXTURE	DESCRIPTION	OCCUPANCY	QTY.	DRAINAGE FIXTURE UNITS	SUB-TOTAL	LOAD VALUES IN WATER (EACH) SUPPLY FIXTURE UNITS (WSFU)			LOAD VALUES IN WATER (TOTAL) SUPPLY FIXTURE UNITS (WSFU)			Remarks
						COLD	HOT	TOTAL	COLD	HOT	TOTAL	
WC	Water Closet, Flush Tank, 1.28 GPF	Public	14	4	56	5.0	-	5.0	70	0	70	
L-1	Lavatory, Countertop	Public	10	1	10	1.5	1.5	2.0	15	15	20	
L-2	Lavatory, Wall Hung	Public	5	1	5	1.5	1.5	2.0	7.5	7.5	10	
S-1	Hand Sink, Children Handwash	Public	10	1	10	1.5	1.5	2.0	15	15	20	
S-2	Single Compartment Sink	School	3	2	6	3.0	3.0	4.0	9	9	12	
S-3	3-Compartment Sink	School	1	2	2	3.0	3.0	4.0	3	3	4	
SINKS	Owner Provided	Public	4	2	8	3.0	3.0	4.0	12	12	16	
MS	Mop (Service) Sink	Offices, etc.	1	2	2	2.3	2.3	3.0	2.25	2.25	3	
EWC	Electric Water Cooler (Drinking Fountain)	Offices, etc.	1	0.5	0.5	0.3	-	0.3	0.25	0	0.25	
WMB	Washing Machine Box (8 lb)	Private	1	2	2	1.0	1.0	1.4	1	1	1.4	
IMB	Ice Maker Valve Box - (Refrigerator / Ice Maker)	Public or Private	3	0	0	0.3	-	0.3	0.75	0	0.75	
DW	Dishwashing Machine	Private	1	2	2	-	1.4	1.4	0	1.4	1.4	
FD-1	Floor Drain - General / Restroom		13	2	26	0.0	0.0	0.0	0	0	0	
WH-1/WH-2	Wall Hydrant	Public or Private	4	0	0	2.0	-	2.0	8	0	8	
TOTALS						129.5	DFU	143.75	66.15	166.8	WSFU	
DFU = DRAINAGE FIXTURE UNITS						EIGHTH	INCH SLOPE PER FOOT	53.3	33.8	58.4	GPM	
WSFU = WATER SUPPLY FIXTURE UNITS						4	DIAMETER OF PIPE (INCHES)	2	2	2	INCHES REQ'D.	



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ST. JOHN PAUL II EARLY LEARNING CENTER

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PROJECT NO.: 17014

DATE: AUGUST 31, 2017

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PLUMBING SCHEDULES AND NOTES

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