1. SOIL AND WASTE PIPE SHALL SLOPE 2% MINIMUM, UNLESS OTHERWISE NOTED OR REQUIRED BY CODE.
2. ALL DRAIN, WATER & GAS LINES SHALL BE KEPT TIGHT TO THE UNDERSIDE OF EQUIPMENT & SECURED IN PLACE.
3. PROVIDE TRAP PRIMERS FOR FLOOR DRAINS IN RESTROOMS AND WHERE REQUIRED BY CODES. PROVIDE DEEP SEAL TRAPS FOR FLOOR DRAINS WITHOUT TRAP PRIMERS.
4. ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEANOUT LOCATIONS WITH EQUIPMENT, CABINETS, ETC. AND THE OWNERS REPRESENTATIVE PRIOR TO ANY INSTALLATION.
5. ALL VALVES, TRAP PRIMERS, WATER HAMMER ARRESTORS OR OTHER EQUIPMENT SHOWN IN WALLS OR ABOVE NON-ACCESSIBLE CEILING SHALL BE INSTALLED BEHIND AN ACCESS PANEL.
6. ALL PLUMBING FIXTURE VENTS SHALL TERMINATE A MINIMUM OF 12 INCHES FROM ANY VERTICAL SURFACE AND 10 FEET FROM ANY OUTSIDE AIR INTAKE.
7. CONTRACTOR SHALL PROVIDE GAS PIPING TO UNITS AND ALL FINAL CONNECTIONS REQUIRED FOR OPERATION.
8. INSTALL SHUT-OFF VALVES ON ALL HOT & COLD WATER LINES TO FIXTURE OR APPLIANCE. ALL EXPOSED WATER AND WASTE LINES TO BE CHROME PLATED.
9. PROVIDE A LEVER HANDLE GAS SHUT-OFF VALVE IN THE BRANCH PIPING OF EACH APPLIANCE OR PIECE OF EQUIPMENT, FOR EACH APPLIANCE INSTALL QUICK DISCONNECT, FLEXIBLE PIPE WHEN ALLOWED BY CODE AND RESTRAINING DEVICE FURNISHED BY OWNER. PROVIDE PRESSURE REDUCING VALVES AT EACH PIECE OF EQUIPMENT OR APPLIANCE. IF GAS PRESSURE GREATER THAN 10"/wc IS USED DOWNSTREAM FROM THE GAS METER.
10. ALL VALVES, UNIONS, ETC. SHALL BE SAME SIZE AS PIPE UNLESS OTHERWISE INDICATED ON DRAWINGS.
11. REFER TO KITCHEN EQUIPMENT DRAWINGS FOR PLUMBING ROUGH-IN SCHEDULE & FOR ADDITIONAL WORK TO BE FURNISHED & INSTALLED BY CONTRACTOR. ALL ROUGH-IN PLUMBING AND FINAL CONNECTIONS TO KITCHEN EQUIPMENT SHALL BE MADE BY THE CONTRACTOR.
12. REFER TO MECHANICAL SHEETS FOR HVAC AND HOOD PLUMBING REQUIREMENTS.
13. ALL GAS LINES SHALL BE SUPPORTED.
14. ALL FLOOR SINKS AND FLOOR DRAINS IN TRAFFIC AREAS SHALL BE INSTALLED FLUSH TO FLOOR SURFACE.
15. PROVIDE WATER HAMMER ARRESTOR FOR ALL WATER LINES.
16. PROVIDE AIR GAPS FOR INDIRECT DRAINS AS REQUIRED BY CODE. AIR GAP SHALL BE MINIMUM 2 TIMES THE DIAMETER OF THE INDIRECT DRAIN.
17. PRIOR TO COMMENCING WORK ON THIS PROJECT, CONTRACTOR SHALL VERIFY DEPTH, SIZE, LOCATION AND CONDITION OF ALL EXISTING UTILITIES IN FIELD. SHOULD CONDITIONS EXIST OTHER THAN THOSE INDICATED WHICH WOULD CAUSE THE DESIGN TO BE ALTERED, CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY.
18. CONTRACTOR SHALL COORDINATE INSTALLATION OF PLUMBING WORK WITH ALL OTHER TRADES SO AS TO AVOID UNNECESSARY DELAY OR INTERFERENCES. CONTRACTOR SHALL REVIEW ARCHITECTURAL AND EQUIPMENT SHEETS.
19. CONTRACTOR SHALL FURNISH & INSTALL ALL BACKFLOW PROTECTION DEVICES REQUIRED BY AGENCIES HAVING JURISDICTION. BACKFLOW DEVICES REQUIRING TESTING SHALL BE INSTALLED NO HIGHER THAN 5'-0" A.F.F.
20. CONTRACTOR SHALL PROVIDE CONDENSATE DRAIN FROM A/C UNITS TO APPROVED DRAIN, GAS PIPING TO UNITS AND ALL FINAL CONNECTIONS REQUIRED FOR OPERATION.
21. THE OWNER OR KITCHEN EQUIPMENT SUPPLIER MAY SUBSTITUTE EQUIPMENT OR THE EQUIPMENT MAY VARY FROM WHAT IS SHOWN. THEREFORE, THE CONTRACTOR SHALL VERIFY ALL CRITICAL DIMENSIONS WITH THE OWNER PRIOR TO CONSTRUCTION. FAILURE OF THE CONTRACTOR TO VERIFY THESE DIMENSIONS SHALL PLACE THE RESPONSIBILITY FOR ANY SUBSEQUENT RELOCATION DIRECTLY UPON THE CONTRACTOR.
22. ALL WATER LINES SHALL BE RUN OVERHEAD U.O.N.
23. THESE DRAWINGS ARE ACCOMPANIED BY SPECIFICATIONS. SEE SPECIFICATIONS FOR FURTHER INFORMATION.

GENERAL NOTES 4

SYMBOLS	ABBREV.	DESCRIPTION
	Y.B.	YARD BOX
	R.D.	ROOF DRAIN
	A.P.	ACCESS PANEL
	V.T.R.	VENT THRU ROOF
	V.B.F.	VENT BELOW FLOOR
	U.T.R.	UP THRU ROOF
	V.C.P.	VITRIFIED CLAY PIPE
	C.I.	CAST IRON
	A.C.P.	ASBESTOS CEMENT PIPE
	(N)	NEW
	(E)	EXISTING
⊜	F.D.	FLOOR DRAIN
⊙	H.D.	HUB DRAIN
◎	RD	ROOF DRAIN
◎	ORD	OVERFLOW ROOF DRAIN
⊠	F.S.	FLOOR SINK
	G.L.	GAS LINE
	A.F.F.	ABOVE FINISHED FLOOR
(X-X 0000)		PLUMBING EQUIPMENT DESIGNATION
<XXX>		KITCHEN EQUIPMENT NUMBER: REFER TO KITCHEN EQUIP. DRAWINGS FOR DESCRIPTION.
—SW—	SW	SOIL OR WASTE (SANITARY)
—GW—	GW	SOIL OR WASTE (GREASE WASTE)
—G—	G	GAS / GAS STUB
— – —	CW	COLD WATER
— – – —	HW	HOT WATER
———	V.	SANITARY VENT
—RL—	RL	RAINLEADER
—ORL—	ORL	OVERFLOW RAINLEADER
—CD—	C.D.	CONDENSATE DRAIN
ϕ	CO	FLOOR CLEANOUT OR CLEANOUT TO GRADE
╟——	W.C.O.	WALL CLEANOUT
—FW—	FW	FILTERED WATER
—TW—	TW	PREMIXED TEMPERATURE WATER
├┤	H.B.	HOSE BIBB
—⋈—	S.O.V.	SHUT-OFF GATE VALVE
	S.O.C.	SHUT-OFF GAS COCK
		FIRE SUPPRESSION SYSTEM SOLENOID GAS SHUT-OFF
	C.V.	CHECK VALVE
	P.T.R.V.	PRESS-TEMPERATURE RELIEF VALVE
	B.V.	BALL VALVE
	C.W.	COLD WATER BELOW GRADE
	BFP	BACKFLOW PREVENTER
	FU	FIXTURE UNIT

PLUMBING LEGEND 2

ITEM	FIXTURE	SOIL OR WASTE	VENT	COLD WATER	HOT WATER	TEMP'D WATER	DESCRIPTION	MANUFACTURER / MODEL NUMBER
FS 1	FLOOR SINK	3"	2"	--	--	--	PVC 12" SQUARE FLOOR SINK, 8" DEEP, WITH ALUMINUM OR PVC DOME STRAINER AND LOOSE SET PVC SLOTTED TOP GRATE.	JOSAM / MODEL: JPFS3-PVC-3 JONESPEC / MODEL: FD-2370-[illegible]-DS-H --
FS 2	FLOOR SINK	4"	2"	--	--	--	PVC 12" SQUARE FLOOR SINK, 8" DEEP, WITH ALUMINUM OR PVC DOME STRAINER AND LOOSE SET PVC SLOTTED TOP GRATE.	JOSAM / MODEL: JPFS4-PVC-3 JONESPEC / MODEL: FD-2370-[illegible]4-DS-H --
FD 1	FLOOR DRAIN (3")	3"	2"	--	--	--	COATED CAST IRON FLOOR DRAIN WITH FLANGE, INTEGRAL CLAMPING COLLAR, BOTTOM OUTLET AND ADJUSTABLE NICKEL-BRONZE ROUND STRAINER.	JOSAM / MODEL: 3000[illegible] WADE / MODEL: 1103 ZURN / MODEL: FD-2210
FCO 1	FLOOR CLEANOUT	--	--	--	--	--	CAST IRON CLEANOUT WITH THREADED ADJUSTABLE HOUSING, ROUND SCORIATED HEAVY CAST IRON COVER.	JOSAM / MODEL: 56000 WADE / MODEL: 6000Z ZURN / MODEL: Z-1400
WCO 1	WALL CLEANOUT	--	--	--	--	--	CAST IRON CLEANOUT TEE WITH INLET/OUTLET SPIGOT AND THREADED BRASS PLUG, WITH STAINLESS STEEL ACCESS COVER.	JOSAM / MODEL: 58510 WADE / MODEL: 8560E ZURN / MODEL: Z-1446-BP
RP 1	RECIRC. PUMP	--	--	--	--	--	GRUNDFOS MODEL #UPS 12-55 SFC/SUC 12.5 GPM @ 9 FEET OF HEAD, 115 VOLT, 87 WATTS, SINGLE PHASE. MOUNT PUMP NEAR WATER HEATERS IN AN ACCESSIBLE LOCATION. PUMP TO BE ON A TIME CLOCK. REFER TO ELECTRICAL PLAN FOR ADDITIONAL INFORMATION.	GRUNDFOS #UPS 12-55 SFC/SUC
WC 1	WATER CLOSET	4"	2"	1/2"	--	--	WHITE VITREOUS [illegible] FLOOR MOUNTED FLUSHOMETER TANK (PRESSURE ASSISTED) TYPE, ELONGATED BOWL, ADA COMPLIANT, 1.[illegible]F, WITH OPEN FRONT SEAT LESS COVER, OLSEN[illegible] #95 OR EQUIVALENT. FLUSHOMETER TANK: SLOAN FLLUSHMATE OR EQUAL. PROVIDE TANK COVER LOCKS. FLUSH HANDLE SHALL BE LEFT HAND AS REQUIRED TO CORRESPOND WITH ACCESS FROM WIDE SIDE OF STALL. VERIFY FLUSH SIDE REQUIREMENTS	AM. STD. "CHAMPION" / MODEL: 2002.014 KOHLER "HIGHLINE" / MODEL: K-3493-T -- -- -- --
L 1	LAVATORY	2"	1-1/2"	1/2"	--	1/2"	WHITE VITREOUS CHINA, SELF-RIMMING,, 4" CENTERS, WITH FRONT OVERFLOW, ADA ACCESSIBLE. [illegible] GRID STRAINER. FAUCET: FURNISHED BY OWNER-INSTALLED BY G.C. SINGLE LEVER TYPE FAUCET, ADA COMPLIANT. PROVIDE AND INSTALL ADA COMPLIANT, PREMANUFACTURED INSULATING JACKET ON DRAIN AND WATER LINES BELOW SINK. ♿	AM. STD. "LUCERNE" / MODEL: 0355.012 KOHLER "BRENHAM" / MODEL: K-1997-4 -- --
S 1	HAND SINK	2"	1-1/2"	--	--	1/2"	STAINLESS STEEL HAND SINK, WALL HUNG, INCLUDES A 6" GOOSENECK STAINLESS. FAUCET W/FOOT VALVE PER DETAIL 4/P6.0. SINK AND FAUCET SUPPLIED BY OWNER, INSTALLED BY CONTRACTOR.	SEE SHEETS A2.0 & A2.1 -- --
S 2	MOP SINK	3"	[illegible]	1/2"	1/2"	--	MOLDED FIBERGLASS 24"x24"x10" DEEP, WITH S/S SPLASH PANELS. FAUCET: FURNISHED BY OWNER-INSTALLED BY G.C. FAUCET INCLUDES VACUUM BREAKER. ONE PIECE MOLDED CONSTRUCTION WHITE DURASTONE, INTEGRALLY MOLDED CENTER DRAIN WITH STAINLESS STEEL STRAINER. PROVIDE WALL GUARD, MOP HANGER AND HOSE/ HOLDER.	MUSTEE: 63M -- --
S 3	3 COMP. SINK	INDIRECT	--	1/2"	1/2"	--	SINK, FAUCET, AND DRAIN SUPPLIED BY OWNER AND INSTALLED BY CONTRACTOR. SEE SCOPE OF WORK SHEETS.	SEE SHEETS A2.0 & A2.1 -- --
WH 3	WATER HEATER	--	--	1"	1"	--	ULTRA HIGH EFFICIENCY WATER HEATER, 60 GALLON STORAGE TANK WITH VITRAGLAS LINING, 125,000 BTU INPUT, NATURAL GAS, DIRECT VENT, TEMPERATURE AND PRESSURE RELIEF VALVE, INSULATED FOR ENERGY CONSERVATION TO MEET FEDERAL STANDARDS. PROVIDE WITH CONCENTRIC VENT TERMINATION KIT P/N 239-44069-01.	BRADFORD WHITE / MODEL: #EF-60T-125 -- -- --
GI [illegible]	GREASE INTERCEPTOR	--	--	--	--	--	EXISTING	-- -- --
MV 1	MIXING VALVE	--	--	1/2"	1/2"	1/2"	THERMOSTATIC, 125 P516, 200VF BRONZE BODY, STAINLESS STEEL PISTON LINER, CHECK VALVES SIZE PER PIPE CONNECTIONS.	HYDROTEK SERIES HBL LAWLER SERIES 61 LEONARD SERIES 210
DM 1	DISH MACHINE	INDIRECT	--	--	1/2"	--	SINGLE RACK, CORNER, LOW EVERGY DISHWASHER. HOT WATER INLET - 1/2" NPT FEMALE. 45 GALLONS PER HOUR @140°F, 7 GPM (RECOMMENDED WATER TEMPERATURE). THIS UNIT DOES NOT PRODUCE STEAM OR HEAT.	AUTO CHLOR MODEL #A5 WATER SAVER
ET 1	EXPANSION TANK	--	--	3/4"	--	--	EXPANSION TANK, STEEL, EXPANSION MEMBRANE 150 PSI, 160° F, 4.5 GALLON CAPACITY.	WATTS SERIES DET-12-M1 AMTROL SERIES ST-12 WILKINS SERIES WXTP-18
BFP 1	DOUBLE CHECK BACKFLOW PREVENTER	--	--	3/8"	--	--	DOUBLE CHECK VALVE ASSEMBLY WITH ATMOSPHERIC VENT, AND STRAINER. PIPE VENT DISCHARGE DRAIN LINE TO NEAREST DRAIN WITH PROPER AIR GAP. ASSE 1022 APPROVED.	WATTS MODEL SD-3 WILKINS (ZURN) MODEL 740 --
SA 1	SHOCK ARRESTOR	--	--	3/4"	--	--	STAINLESS STEEL CASING WITH STAINLESS STEEL BELOW, PRECHARGED WITH NITROGEN. SIZED PER PDI-WH201, SIZE "B".	WADE / SHOKSTOP JOSAM / MODEL: 75000 ZURN / SHOKTROL

FIXTURE	NO.	DRAIN F.U.	DRAIN TOTAL F.U.	WATER SERVICE F.U.	WATER SERVICE TOTAL F.U.	COLD WATER F.U. C.W.	COLD WATER TOTAL C.W.	HOT WATER F.U. H.W.	HOT WATER TOTAL H.W.
WATER CLOSET	2	4	8	2	6	2	6	--	--
LAVATORY	2	1	2	2	4	1.5	3	1.5	3
HAND SINK	3	1	3	2	6	1.5	4.5	1.5	4.5
3 - COMPARTMENT SINK *	1	4	4	4	4	3	3	3	3
FLOOR DRAIN	8	3	21	--	--	--	--	--	--
FLOOR SINK	4	3	12	--	--	--	--	--	--
MOP SINK	1	3	3	3	3	2.25	2.25	2.25	2.25
DISHWASHER*	1	3	3	3	3	--	--	3	3
TOTAL	--	--	58	--	29.5	--	22.25	--	15.75

40.5 FU = 27.0 GPM — USE 1-1/2" CW SERVICE
58 FU PROBABLE DEMAND — USE 4" SANITARY
15.75 FU = 20.0 GPM — USE 1-1/4" HW SERVICE

BASED ON 2015 IPC.
* FIXTURE HAS INDIRECT WASTE TO FLOOR SINK

SYSTEM SERVED	MATERIAL	FITTINGS & JOINTS
DOMESTIC WATER BELOW FLOOR OR GRADE	TYPE 'K' SOFT COPPER	NONE PERMITTED
DOMESTIC WATER ABOVE FLOOR OR GRADE	TYPE 'L' HARD DRAWN COPPER	WROUGHT COPPER, SOLDERED
WASTE & VENT	PVC-DWV, ASTM D-2665	HUB WITH PVC CEMENT
GAS	SCHEDULE 40 BLACK STEEL	MALLEABLE IRON, SCREWED OR WELDED

MATERIAL SCHEDULE 5

PLUMBING FIXTURE SUMMARY 3

PLUMBING SCHEDULE 1

Order Plans @ www.LDLine.com

DATE: 08/10/18
JOB NO: 1845
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ACG #: 1820228

PLUMBING SCHEDULES AND NOTES

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