



KING+PARKS MULTI-FAMILY RESIDENCES

PROJECT SITE: NE Martin Luther King Jr. Boulevard & N Rosa Parks Way
 OWNER: Portland Community Reinvestment Initiatives Inc. (PCRI)
 6329 NE Martin Luther King Jr. Blvd. Portland, Oregon 97211



PROJECT NO. 16-0602 ISSUE DATE 06.23.2017

REVISIONS

LEGENDS AND SCHEDULES
P6.0
 NOT FOR CONSTRUCTION
PRICING SET
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PLUMBING LEGEND

AFF ABOVE FINISHED FLOOR	---	--- (CW) COLD WATER
ARCH ARCHITECTURAL	---	--- (HW) HOT WATER
B.G.	..... BELOW GRADE	---	--- (HWR) HOT WATER RECIRC
BTU	..... BRITISH THERMAL UNIT	---	--- (W) BELOW GRADE WASTE
CAP.	..... CAPACITY	---	--- (W) ABOVE GRADE WASTE
C.I.	..... CAST IRON	---	--- (V) VENT
COMP.	..... COMPARTMENT	RD	--- (RD) RAIN DRAIN
CONT.	..... CONTINUATION	OD	--- (OD) OVERFLOW RAIN DRAIN
CPVC	..... CHLORINATED POLYVINYL CHLORIDE (PIPE)	G	--- (G) NATURAL GAS
CU.	..... CUBIC	F	--- (F) FIRE WATER
DIA.	..... DIAMETER		
ELEV.	..... ELEVATION		
FD	..... FLOOR DRAIN		
FDC	..... FIRE DEPARTMENT CONNECTION		
F.F.	..... FINISH FLOOR		
FLG.	..... FLANGE		
FT	..... FOOT / FEET		
G	..... GAS		
G.A.	..... GAUGE		
GALV.	..... GALVANIZED		
GPM	..... GALLONS PER MINUTE		
G.V.	..... GATE VALVE		
HP	..... HORSEPOWER		
KW	..... KILOWATT		
LAV	..... LAVATORY		
LBS	..... POUNDS		
MAX.	..... MAXIMUM		
MBH	..... THOUSANDS OF BTUs PER HOUR		
MIN.	..... MINIMUM		
M.J.	..... MECHANICAL JOINT		
N.I.M.	..... NOT IN MECHANICAL		
PROT.	..... PROTECTION		
PRV	..... PRESSURE REDUCING VALVE		
PSI, PSIG	..... POUNDS PER SQUARE INCH		
P/T	..... PRESSURE / TEMPERATURE		
REQ'D	..... REQUIRED		
TYP.	..... TYPICAL		
VTR	..... VENT THROUGH ROOF		
WC	..... WATER CLOSET		

	..... EQUIPMENT MARK NUMBER
	..... FIXTURE MARK
	..... NOTE
	..... RISER DIAGRAM

	..... PRESSURE/TEMP RELIEF VALVE
	..... BUTTERFLY VALVE
	..... GAS PRESSURE REGULATING VALVE
	..... PIPE TURNED UP, PIPE TURNED DOWN
	..... GATE VALVE
	..... BALL VALVE
	..... BALANCING VALVE
	..... CHECK VALVE
	..... UNION
	..... DOUBLE CHECK ASSEMBLY
	..... CAP
	..... TEE
	..... ELBOW
	..... CLEANOUT

GAS WATER HEATERS

MARK NUMBER	
FUEL	GAS
CAPACITY (GAL)	100
INPUT RATE (MBH)	199
RECOVERY CAP. @ 100 TR (GPH)	239
EFFICIENCY (%)	98.5
COMBUSTION AIR/GAS VENT DIA.	4" CPVC
DESIGN WEIGHT (LBS)	1735
BASIS OF DESIGN (BRADFORD WHITE)	EF-100T-199E-3N(A)

DOMESTIC RECIRC PUMP

MARK NUMBER	
SERVICE	WH/1-5
TYPE	RECIRC.
FLOW RATE (GPM)	25
HEAD (FT)	20
MOTOR HP	1/6
RPM	1750
BASIS OF DESIGN: GRUNDFOS	UP43-75BF

MIXING VALVE

MARK NUMBER	
WATER HEATER	1-5
MAX FLOW RATE GPM *	138
MIN FLOW RATE GPM	1.0
CW (SIZE IN.)	2"
HW (SIZE IN.)	2"
TWW (SIZE IN.)	2"
BASIS OF DESIGN	LEONARD TM-186-20050-PRV

* - AT 15 PSI DROP MAX

SUMP PUMP

MARK NUMBER	
SYSTEM	ELEVATOR
TYPE	SUMP
FLOW RATE (GPM)	100
HEAD (FT H2O)	20
POWER (HP)	1HP/208/1

* - PROVIDE W/ PLUG IN CONNECTION FOR POWER

PLUMBING CONNECTION SCHEDULE

MARK	FIXTURE	W	V	CW	HW	REMARKS
TS-1	TUB SHOWER	1-1/2"	1-1/2"	1/2"	1/2"	BACKED/REINFORCED FOR FUTURE GRAB BARS
TS-2	TUB SHOWER, ADA	1-1/2"	1-1/2"	1/2"	1/2"	ADA GRAB BARS
CW-1	CLOTHES WASHER FITTING	2"	2"	1/2"	1/2"	
DW-1	DISH WASHER	-	-	1/2"	1/2"	
FD-1	FLOOR DRAIN	3"	VL			JR SMITH 2005 SERIES, PRIME
FD-2	FLOOR DRAIN	3"	VL			JR SMITH 2119 SERIES, PRIME
FS-1	FLOOR SINK	3"	1 1/2"			J.R. SMITH 3002 WITH HALF GRATE, PRIME
HB-1	HOSE BIBB			3/4"		VACUUM/FREEZE PROTECTED
HB-2	HOSE BIBB (TRASH)			1/2"	1/2"	HOT & COLD, VACUUM PROTECTED
LV-1	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	UNDER COUNTER MOUNT
LV-2	LAVATORY, ADA	1-1/2"	1-1/2"	1/2"	1/2"	PUBLIC COUNTER MOUNT
LV-3	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	PUBLIC COUNTER MOUNT
RD-1	ROOF DRAIN	-	-	-	-	SIZED ON PLANS
OD-2	OVERFLOW ROOF DRAIN	-	-	-	-	SIZED ON PLANS
S-1	KITCHEN SINK	2"	1-1/2"	1/2"	1/2"	DOUBLE COMPARTMENT
S-2	KITCHEN SINK, ADA	2"	1-1/2"	1/2"	1/2"	DOUBLE COMPARTMENT
SP-1	SUMP PUMP	2"				100 GPM
SS-1	SERVICE SINK	3"	1-1/2"	1/2"	1/2"	FLOOR MOUNT, VACUUM PROTECTED
WC-1	WATER CLOSET	3"	2"	1/2"		FLOOR MOUNT, TANK TYPE, ELONGATED
WC-2	WATER CLOSET, ADA	3"	2"	1/2"		FLOOR MOUNT, TANK TYPE, ELONGATED ADA
WC-3	WATER CLOSET, ADA	3"	2"	1/2"		FLOOR MOUNT, TANK TYPE, ELONGATED, ADA
CO	CLEANOUT					JR SMITH

V.L. - VENTED LINE

- ① PROVIDE ALL PLUMBING CONNECTIONS REQUIRED FOR A COMPLETE INSTALLATION. COORDINATE ELECTRICAL CONNECTION(S) WITH ELECTRICAL CONTRACTOR.
- ② ENSURE THAT FLOOR DRAINS AND FLOOR CLEANOUTS ARE INSTALLED FLUSH TO FINISHED FLOOR.
- ③ PROVIDE W/SEDIMENT BUCKET AND TRAFFIC RATED GRATE.

FIXTURE TYPE	DOMESTIC WATER SERVICE					SANITARY WASTE SERVICE	
	NUMBER OF FIXTURES	WATER FIXTURE UNITS	TOTAL WSFU	TOTAL CW FIXTURE UNITS	TOTAL HW FIXTURE UNITS	DRAINAGE FIXTURE UNITS	TOTAL DFU
BATHUB or COMBO BATH/SHOWER	1	4	4	3	3	2	2
CLOTHES WASHER	0	0	0	0	0	0	0
KITCHEN SINK (GRINDER & DISHWASHER)	1	3	3	2.25	2.25	2	2
LAVATORY (SINGLE)	1	1	1	0.75	0.75	1	1
WATER CLOSET (1.6 GPF TANK-PRIVATE)	1	2.5	2.5	0	0	3	3
TOTAL PER UNIT	4	10.5	10.5	8.5	6	8	8
20 TYPICAL UNITS	80	210	210	170	120	160	160
PLUMBING CALCULATIONS 2bd/1ba	DOMESTIC WATER SERVICE					SANITARY WASTE SERVICE	
BATHUB or COMBO BATH/SHOWER	1	4	4	3	3	2	2
CLOTHES WASHER	0	0	0	0	0	0	0
KITCHEN SINK (GRINDER & DISHWASHER)	1	3	3	2.25	2.25	2	2
LAVATORY (SINGLE)	1	1	1	0.75	0.75	1	1
WATER CLOSET (1.6 GPF TANK-PRIVATE)	1	2.5	2.5	0	0	3	3
TOTAL PER UNIT	4	10.5	10.5	8.5	6	8	8
37 TYPICAL UNITS	148	388.5	388.5	314.5	222	296	296
PLUMBING CALCULATIONS 3bd/1.5ba	DOMESTIC WATER SERVICE					SANITARY WASTE SERVICE	
BATHUB or COMBO BATH/SHOWER	1	4	4	3	3	2	2
CLOTHES WASHER	0	0	0	0	0	0	0
KITCHEN SINK (GRINDER & DISHWASHER)	1	3	3	2.25	2.25	2	2
LAVATORY (SINGLE)	2	2	2	1.5	1.5	1	2
WATER CLOSET (1.6 GPF TANK-PRIVATE)	2	2.5	5	0	0	3	6
TOTAL PER UNIT	6	10.5	14	11.75	6.75	8	12
1 TYPICAL UNIT	6	10.5	14	11.75	6.75	8	12
PLUMBING CALCULATIONS 2bd/1.5ba TH	DOMESTIC WATER SERVICE					SANITARY WASTE SERVICE	
BATHUB or COMBO BATH/SHOWER	1	4	4	3	3	2	2
CLOTHES WASHER	1	4	4	3	3	3	3
KITCHEN SINK (GRINDER & DISHWASHER)	1	3	3	2.25	2.25	2	2
LAVATORY (SINGLE)	2	2	2	1.5	1.5	1	2
WATER CLOSET (1.6 GPF TANK-PRIVATE)	2	2.5	5	0	0	3	6
TOTAL PER UNIT	7	14.5	18	14.75	9.75	11	15
1 TYPICAL UNIT	7	14.5	18	14.75	9.75	11	15
PLUMBING CALCULATIONS 3bd/1.5ba TH	DOMESTIC WATER SERVICE					SANITARY WASTE SERVICE	
BATHUB or COMBO BATH/SHOWER	1	4	4	3	3	2	2
CLOTHES WASHER	1	4	4	3	3	3	3
KITCHEN SINK (GRINDER & DISHWASHER)	1	3	3	2.25	2.25	2	2
LAVATORY (SINGLE)	2	2	2	1.5	1.5	1	2
WATER CLOSET (1.6 GPF TANK-PRIVATE)	2	2.5	5	0	0	3	6
TOTAL PER UNIT	7	14.5	18	14.75	9.75	11	15
11 TYPICAL UNITS	77	159.5	198	162.25	107.25	121	165
COMMON SPACES	DOMESTIC WATER SERVICE					SANITARY WASTE SERVICE	
MOP BASIN	4	3	12	9	9	3	12
HOSE BIBB (FIRST ONE)	4	2.5	10	10	0	---	---
RECEPTOR (ELEVATOR WASTE)	1	0	0	0	0	100	100
CLOTHES WASHER	22	4	88	66	66	3	66
RECEPTOR (INDIRECT WASTE)	9	---	---	---	---	1	9
LAVATORY (SINGLE)	3	1	3	2.25	2.25	1	3
WATER CLOSET (1.6 GPF TANK-PRIVATE)	3	2.5	7.5	0	0	3	9
TOTAL:	46	13	120.5	94.75	77.25	111	199
BUILDING TOTAL	DOMESTIC WATER SERVICE					SANITARY WASTE SERVICE	
UNIT TYPE	NUMBER FIXTURE UNITS	WATER FIXTURE UNITS	TOTAL WSFU	TOTAL CW FIXTURE UNITS	TOTAL HW FIXTURE UNITS	TOTAL DFU	
2BD/1BA	80	210	210	170	120	160	
2BD/1BA	148	388.5	388.5	314.5	222	296	
3BD/1.5BA	6	10.5	14	11.75	6.75	12	
2BD/1.5 TH	7	14.5	18	14.75	9.75	15	
3BD/1.5 TH	77	159.5	198	162.25	107.25	165	
COMMONS SPACES	46	13	120.5	94.75	77.25	199	
ELEVATOR SUMP PUMP						100	
TOTAL:	364	796	949	768	543	947	

DOMESTIC WATER DEMAND	180	GPM
DOMESTIC WATER PIPE SIZE	4"	CW
SANITARY SEWER	8"	WASTE

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