		SYMBOL LEGEND			PLUMBIN	IG PI
SYMBOL AAV	ABBREVIATION AAV	DESCRIPTION AUTOMATIC AIR VENT		SYMBOL	ABBREVIATION - CW	C
	,	AUTOMATIC FLOW CONTROL VALVE			- HW	H
&		AUTOMATIC TWO-WAY VALVE		— – – – — — — — — — — — — — — — — — — —	- HWC - NP	H N
&		AUTOMATIC THREE-WAY VALVE		TW	- TW	T
	BV	BALL CHECK OR DRIP VALVE BALL VALVE		SD		S
X Ø	BALV	BALL VALVE BALANCING VALVE			– W – SW	S/ S/
ð	BFV	BUTTERFLY VALVE		RL -	– RL	R
 N	CV	CHECK VALVE			ORL - TP	0
	 CO	CLEAN OUT		—TR — — AV — — — — —		TI A(
	DDOV				- V	V
	DDCV	DOUBLE DETECTOR CHECK VALVE ECCENTRIC REDUCER		AW GW	- AW - GW	A G
		FLEXIBLE JOINT		——A———	- CA	C
	FCO	FLEXIBLE PIPE CONNECTOR FLOOR CLEAN OUT		D CD	– D – CD	D
- <u>0</u>	FD	FLOOR DRAIN			- IND	
	FS	FLOOR SINK FLOW ARROW, DIRECTION OF FLOW		—_NG	- G	G
X	FCV	FLOW CONTROL VALVE		——MG———— ——HG————	– MG – HG	G
		FLOW MEASURING DEVICE		—LPG———	– LPG	LI
<u> </u>	GC GV	GAS COCK GATE VALVE	<del>-                                    </del>	* * * * * * * * * *	*-	D
	GLV	GLOBE VALVE				
<u> </u>	HB	HOSE BIBB			PLUMBIN	G AB
\$H		HOSE END DRAIN VALVE	ABBV	FULL NAME		
	MAV		ABV	ABOVE		
<u>—</u> *	OS&Y	OUTSIDE SCREW AND YOKE VALVE PIPE ANCHOR	AD ADA	ACCESS DOOR, AMERICANS WIT	AREA DRAIN TH DISABILITIES ACT	
		PIPE GUIDE	ADJ AFF	ADJUSTABLE ABOVE FINISH F	LOOR	
↓₹}	UN PV	PIPE UNION PLUG VALVE	AFG ALT	ABOVE FINISH G		
 ⊈		PRESSURE GAUGE WITH GAUGE COCK	AP	ALTERNATE ACCESS PANEL		
			APD ARCH	AIR PRESSURE	DROP	
\$	PRV	PRESSURE REDUCING VALVE	AVG BAS	AVERAGE	MATION SYSTEM	
P	PS	PRESSURE SWITCH OR PRESSURE SENSOR	BEL	BELOW		
Â.	TPV	PRESSURE -TEMPERATURE RELIEF VALVE	BHP BDD	BRAKE HORSEP GRAVITY BACKE		
<del>т</del> РТ		PRESSURE/TEMPERATURE TEST PLUG	BTU BTUH	BRITISH THERM	AL UNIT AL UNITS PER HOUR	
		PUMP	BWV	BACKWATER VA		
	RV	RELIEF VALVE	CAP CB	CAPACITY CATCH BASIN		
	RD RPBP	ROOF DRAIN REDUCED PRESSURE BACKFLOW PREVENTOR	CFCI	CONTRACTOR F	URNISHED CONTRACTO	OR
	RPDP	SCHRAEDER VALVE	CFF	CAP FOR FUTUR		
SLOPE		SLOPE PIPE DOWN IN DIRECTION OF ARROW	CFH CFM	CUBIC FEET PEI CUBIC FEET PEI	R MINUTE	
	STN	STRAINER	CFS CI	CUBIC FEET PER CAST IRON	R SECOND	
		STRAINER W/ BLOWDOWN VALVE	CLG CONC	CEILING, COOLI CONCRETE	NG	
μ		THERMOMETER	COND CONN	CONDENSER, CONNECTION	ONDENSATE	
	VB	VACUUM BREAKER	CONT	CONTINUATION		
	VTR WCO	VENT THRU ROOF WALL CLEAN OUT	CONTR CW(FU)	CONTRACTOR COLD WATER FI	XTURE UNIT	
 	WH	WALL HYDRANT	D DB	DRAIN DRY BULB		
		WALL TYPE INDICATOR ASSEMBLY	dB	DECIBLES(S)		
F &	YH	WATER FLOW DETECTOR YARD HYDRANT	DCVA DDC	DIRECT DIGITAL		
$\rightarrow$		VERTICAL PIPE DROP OR RISER	DDCVA	DOUBLE DETEC ASSEMBLY	TOR CHECK VALVE	
Ų 		PIPE TAKE OFF - UP PIPE TAKE OFF - DOWN	DFU DIA, Ø	DRAINAGE FIXT	URE UNIT	
0		90 DEGREE ELBOW UP OR FROM ABOVE	DN			
		90 DEGREE ELBOW DOWN OR FROM BELOW TEE UP	DSN DWG	DOWNSPOUT NO DRAWING	UZZLE	
 		TEE DOWN	DWV DX	DRAINAGE FIXT		
$\rightarrow$		BREAK IN LINE - SHOWN FOR CLARITY	EAT	ENTERING AIR T		
]		PIPE CAP SERVICE CONNECTION	EFF ELEC	EFFICIENCY ELECTRICAL		
<u>"</u>			ELEV EMCS	ELEVATION	GEMENT AND CONTROL	
		SECTION TAG		SYSTEM		
$\overline{}$			ESP EWT		FIC PRESSURE ER TEMPERATURE	
$\left( \rightarrow \right)$		DETAIL TAG	EXT EXST	EXHAUST EXISTING		
			°F	FAHRENHEIT		
(#)		NOTE BY SYMBOL	F FA	FIRE FROM ABOVE		
#		DEMOLITION NOTE BY SYMBOL	FAL FB	FLOW ALARM FROM BELOW		
<u>/#</u>		REVISION DELTA	FDV FDVC	FIRE DEPARTME	ENT VALVE ENT VALVE CABINET	
•	POC	POINT OF CONNECTION	FFE FH	FINISHED FLOO		
#	-	EQUIPMENT TAG	FHV	FIRE HYDRANT	VE	
#		PLUMBING FIXTURE TAG	FIN FL	FINISHED FLOOR		
			FLA FLEX	FULL LOAD AMP FLEXIBLE	S	
		RELOCATE	FLSW	FLOW SWITCH		
			FPM	FEET PER MINU		
			FPS FT	FEET PER SECC FEET, FLUSH TA		

GENERAL CONTRACTOR

GREASE INTERCEPTOR

GALLON(S) PER MINUTE

HEATING VENTILATION, AND AIR

GALLON(S) PER HOUR

FUTURE

FIXTURE GAS GALLON(S)

FLUSH VALVE

GARAGE DRAIN

HUB DRAIN

HORSEPOWER

HEATING HOT

CONDITIONING

HOT GAS

HOUR

FUT

FXTR

GAL

GC GD

GI GPH

HD

HG

HP

HR

HTG

HVAC

GPM

FV

### MBING PIPING LEGEND

)N	DESCRIPTION	
	COLD WATER	
	HOT WATER PIPING	
	HOT WATER CIRCULATING	
	NON-POTABLE WATER	
	TEMPERED WATER	
	STORM DRAIN BELOW GRADE	
	SANITARY WASTE ABOVE GRADE	
	SANITARY WASTE BELOW GRADE	
	RAIN LEADER ABOVE GRADE	
	OVERFLOW RAIN LEADER	
	TRAP PRIMER	
	ACID VENT PIPING	
	VENT PIPING	
	ACID WASTE	
	GREASE WASTE	
	COMPRESSED AIR	
	DRAIN	
	CONDENSATE DRAIN	
	INDIRECT DRAIN	
	GAS PIPING LOW PRESSURE	
	GAS PIPING MEDIUM PRESSURE	
	GAS PIPING HIGH PRESSURE	
	LIQUID PROPANE GAS	

### **IBING ABBREVIATIONS**

FULL NAME

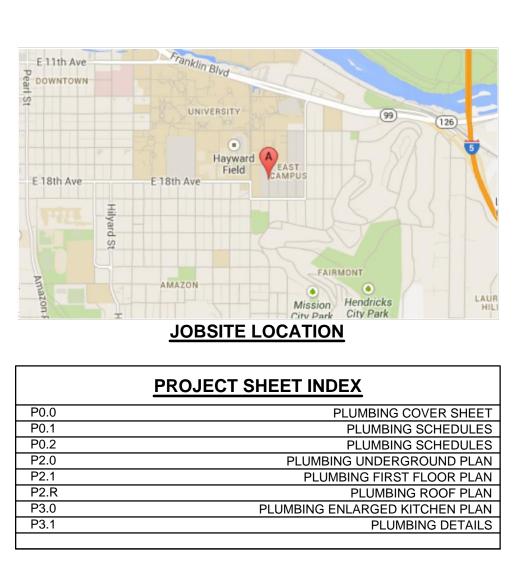
DEMOLITION

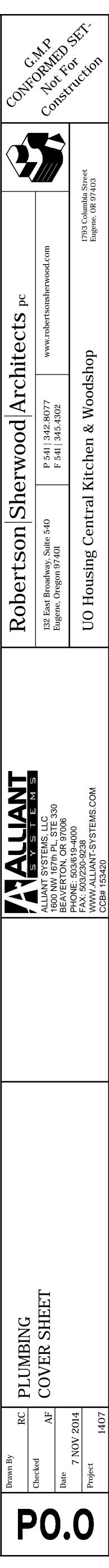
ABBV

ABBV	FULL NAME
HWFU	HOT WATER FIXTURE UNIT
HZ	HERTZ
IAPMO	INTERNATIONAL ASSOCIATION OF
IAPIVIO	
	PLUMBING AND MECHANICAL OFFICIALS
ICBO	INTERNATIONAL CONFERENCE OF BUILDING
	OFFICIALS
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCH(ES)
I/O	INPUT / OUTPUT
IRR	IRRIGATION
KW	KILOWATT(S)
LAP	LINE AREA PRESSURE ALARM
LAT	LEAVING AIR TEMPERATURE
LAV	LAVATORY
#	POUNDS
LBS	POUNDS
LF	LINEAR FOOT, LINEAR FEET
	,
LP	LUBRICATED PLUG VALVE
LWT	LEAVING WATER TEMPERATURE
MAM	MEDICAL AIR MANIFOLD
MAP	MASTER ALARM PANEL
MAX	MAXIMUM
MBH	THOUSANDS BTU / HR
MECH	MECHANICAL
MCC	MOTOR CONTROL CENTER
MFR	MANUFACTURER
MGZV	ZONE VALVE BOX
MH	MANHOLE
	-
MISC	MISCELLANEOUS
MIN	MINUTE(S), MINIMUM
MTD	MOUNTED
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED, NOISE CRITERIA
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN, NUMBER
NOM	NITROUS OXIDE MANIFOLD
NR	NOISE REDUCTION
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER, OVERFLOW STORM
00	DRAIN
OFCI	OWNER FURNISHED CONTRACTOR
	INSTALLED
OM	OXYGEN MANIFOLD
OW	OIL WASTE
PD	PRESSURE DROP
PH	PHASE
PLBG	PLUMBING
POC	POINT OF CONNECTION
PSI	POUND(S) PER SQUARE INCH
PSIA	
	POUND(S) PER SQUARE INCH ABSOLUTE
PSIG	POUND(S) PER SQUARE INCH GAGE
PT	PRESSURE TEMPERATURE TRAP, PETE'S
	PLUG
PV	PROCESS VENT, PLUG VALVE
QTY	QUANTITY
RD	ROOF DRAIN
REQD	REQUIRED
RI&C	ROUGH IN AND CONNECT
RH	RELATIVE HUMIDITY
RL	REFRIGERANT LIQUID
RPBP	REDUCED PRESSURE BACKFLOW
	PREVENTER
RPM	REVOLUTIONS PER MINUTE
RM	ROOM
RS	REFRIGERANT SUCTION
S	VACUUM BOTTLE SLIDE
SAT	SATURATION
SCFM	STANDARD CFM
SF	SQUARE FEET
SHT	SHEET
SIM	SIMILAR
SP	SUMP PUMP, STATIC PRESSURE
SQ	SQUARE
SW	SANITARY WASTE
TD	TEMPERATURE DIFFERENTIAL
TEMP	TEMPERATURE
TOG	TOP OF GRATE
TP	TRAP PRIMER
	TOTAL STATIC PRESSURE
TSP TYP	TYPICAL
	-
UNO	UNLESS NOTED OTHERWISE
V	VOLT(S)
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
VFD	VARIABLE FREQUENCY DRIVE
VP	MEDICAL VACUUM SYSTEM
VTR	VENT THRU ROOF
W	WATT(S)
WB	WET BULB
WCO	WET BOLD WALL CLEAN OUT
WG	WALL CLEAN OUT
· · O	
WPD	WATER PRESSURE DROP

# PLUMBING GENERAL NOTES - OREGON STATE

- <u>COMPLIANCE</u> MATERIALS, METHODS, AND INSTALLATION SHALL COMPLY WITH THE PROVISIONS OF THE 2014 OREGON PLUMBING CODE (2012 UNIFORM PLUMBING CODE W/ STATE OF OREGON AMMENDMENTS) AS WELL AS ALL ADDITIONAL APPLICABLE LOCAL CODES AND STANDARDS.
- PIPING AND EQUIPMENT HANGERS AND SUPPORTS SHALL BE IN ACCORDANCE WITH SECTION 314 OF THE 2014 OREGON PLUMBING CODE.
- PIPES SHALL BE SUPPORTED AND BRACED PER SMACNA "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS." PROVIDE EARTHQUAKE SWAY BRACING AT 40' INTERVALS FOR ALL PIPING WHICH IS 2 1/2" AND LARGER WHICH HAVE HANGERS THAT EXCEED 12" IN LENGTH.
- SLOPE ALL RAIN LEADER, STORM, AND WASTE PIPING AT MINIMUM 2% UNLESS OTHERWISE NOTED ON DRAWINGS. OBTAIN APPROVAL FROM CODE AUTHORITY BEFORE INSTALLING PIPING AT LESS THAN 2%.
- ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE CODES.
- 6. THE ORIGINAL MANUFACTURER'S LABEL SHALL REMAIN AFFIXED TO ALL PLUMBING EQUIPMENT IN AN UNOBSTRUCTED LOCATION. COMPLETE OPERATING AND MAINTENANCE INFORMATION FOR ALL PLUMBING EQUIPMENT SHALL BE PROVIDED TO OWNER'S REPRESENTATIVE AS PART OF PROJECT CLOSEOUT.
- INSTALLATION 8. THESE PLANS ARE SCHEMATIC AND DO NOT SHOW EXACT ROUTING OR EVERY OFFSET WHICH MAY BE REQUIRED. THE PLUMBING CONTRACTOR IS TO COORDINATE WITH ALL OTHER TRADES AND IS TO VERIFY ALL CLEARANCES BEFORE COMMENCING WORK.
- PROVIDE ALL FITTINGS, TRANSITIONS, VALVES AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
- 10. TRENCHING, BACKFILLING, AND COMPACTING FOR UNDERGROUND PIPING SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR UNLESS STATED OTHERWISE IN CONTRACT DOCUMENTS.
- 1. ALL PIPE SIZES NOTED ON DRAWINGS ARE MINIMUMS.
- PIPING PENETRATIONS OF FIRE RATED WALLS OR FLOORS SHALL BE SLEEVED AND FIRE STOPPED WITH LISTED MATERIALS TO MAINTAIN THE INTEGRITY AND RATING OF THE FLOOR OR WALL.
- 3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT ROUGH-IN LOCATIONS AND ELEVATIONS OF PLUMBING FIXTURES.
- 14. PROVIDE LOOSE KEY STOPS OR ANGLE VALVES AT ALL FIXTURES.
- PROVIDE AUTOMATIC TRAP PRIMERS FOR ALL FLOOR DRAINS. FIXTURES TO BE PRIMED FROM ADJACENT FLUSHOMETER TAILPIECE OR DESIGNATED TRAP PRIMER VALVE.
- 16. PROVIDE DIELECTRIC CONNECTIONS BETWEEN DISSIMILAR METALS. COORDINATE GROUNDING REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
- 17. CLEANOUTS SHALL BE INSTALLED SO THEY ARE EASILY ACCESSIBLE FROM FINAL CONSTRUCTION AREAS.
- 18. PLUMBING EQUIPMENT, VALVES AND TRAP PRIMERS SHALL BE LOCATED IN EASILY ACCESSIBLE LOCATIONS.
- COORDINATIO THROUGH PENETRATIONS OF RATED ASSEMBLIES SHALL BE PROTECTED BY AN APPROVED PENETRATION STOP SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E814 OR UL 1479, AND SHALL HAVE AN "F" RATING OF NOT LESS THAN THE REQUIRED RESISTANCE RATING OF THE ASSEMBLY PENETRATED (PER OSSC 714.3.1.2)
- 20. WHERE WALLS OR PARTITIONS ARE REQUIRED TO HAVE A FIRE-RESISTANCE RATING, RECESSED FIXTURES SHALL BE INSTALLED SUCH THAT THE REQUIRED FIRE RESISTANCE WILL NOT BE REDUCED (PER OSSC 714.3.2)
- 21. A LICENSED OREGON JOURNEYMAN SHALL MAKE ALL PLUMBING INSTALLATIONS, ALTERATIONS, OR REMODELING IN A COMMERCIAL BUILDING WITH AN APPROVED PERMIT (OAR 918-695-0020) 22. FLUSH CONTROLS FOR WATER CLOSETS SHALL BE HAND OPERATED OR AUTOMATIC AND BE MOUNTED FOR USE FROM THE WIDE SIDE OF THE AREA OR STALL AND NOT MORE THAN 44 INCHES ABOVE THE FLOOR (PER OSSC CHAPTER 11 AND ICC A117.1)
- 23. WATER PIPING AND DRAIN PIPES EXPOSED UNDER LAVATORIES SHALL BE INSULATED, OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES EXPOSED (PER OSSC CHAPTER 11 AND ICC A117.1)
- 24. UNLESS SHOWN ON ARCHITECTURAL DRAWINGS, REQUIRED ACCESS PANELS SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR AND
- INSTALLED BY THE GENERAL CONTRACTOR.
- 25. THE PLUMBING CONTRACTOR SHALL PROVIDE AND LOCATE ALL REQUIRED FLOOR, WALL, AND FOOTING SLEEVES. 26. COORDINATE PLUMBING SYSTEMS WITH WORK OF OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION.
- 27. COORDINATE LOCATIONS OF ALL ROOF OPENINGS WITH STRUCTURAL, MECHANICAL AND ARCHITECTURAL PLANS PRIOR TO ANY INSTALLATION.
- 28. UNLESS NOTED OTHERWISE, HOUSEKEEPING PADS SHALL BE COORDINATED BY PLUMBING CONTRACTOR AND FURNISHED BY GENERAL CONTRACTOR. ALL HOUSEKEEPING PADS SHALL BE MINIMUM 4 INCHES HIGH AND EXTEND A MINIMUM OF 6 INCHES BEYOND
- EQUIPMENT. 29. UNLESS NOTED OTHERWISE, PLATFORMS, CURBS AND FLASHINGS FOR PLUMBING EQUIPMENT SHALL BE COORDINATED BY PLUMBING CONTRACTOR AND FURNISHED BY GENERAL CONTRACTOR. DETAIL SHALL BE AS INDICATED ON THE STRUCTURAL AND ARCHITECTURAL PLANS, UNLESS NOTED OTHERWISE.
- 30. COORDINATE EXACT SIZES OF REQUIRED OPENINGS AND SUPPORTS FOR FURNISHED EQUIPMENT WITH ARCHITECT, STRUCTURAL, AND GENERAL CONTRACTOR.





		PLUMBIN	IG FIXTURE	<b>UNIT CALCUL</b>	ATION								PLUMBING	PIPING SCH	HEDULE				
FIXTURE DESCRIPTION	QUANTITY		AGE UNITS SE WASTE		GE UNITS RY WASTE	COLD W	TER UNITS	HOT WA	TER UNITS	SERVICE	LOCATION	SIZE	PIPE	PIPE MATL STANDARD	FITTINGS	JOINTS	WORKING PRESSURE		Τ
		EACH	TOTAL	EACH	TOTAL	EACH	TOTAL	EACH	TOTAL										T
BUILDOUT (THIS PERMIT)												1/2" - 4"	COPPER TYPE L	ASTM B88	WROUGHT COPPER	WATER SAFE SOLDER	70 PSIG	100 PSIG	
WATER CLOSET-FLUSH VALVE - 1.28 GPF - PUBLIC	5	-	-	4	20	5	25	-	-			1/2 - 4	HARD DRAWN	AS TWI DOO	TEE DRILL COPPER, BRASS	BCuP	70 - 516	100 - 310	
SINK - 1.5 GPM	2	-	-	2	4	2	4	1.5	3	DOMESTIC COLD WATER DOMESTIC HOT WATER	ABOVE GRADE								
LAVATORY - 0.5 GPM	5	-	-	1	5	1	5	0.75	3.75	DOMESTIC HOT WATER CIRCULATION NON-POTABLE COLD WATER		1/2" - 1-1/2"	PEX-A	ASTM F876 ASTM F877	LEAD FREE BRASS	UPONOR PRO-PEX	70 PSIG	100 PSIG	
SERVICE SINK/JANITOR SINK - 2.5 GPM	1	3	3	-	-	3	3	2.25	2.25										
SHOWER-PER HEAD/DRAIN - 1.75 GPM	1	-	-	2	2	2	2	1.5	1.5		BELOW GRADE	1/2" - 4"	COPPER TYPE K HARD DRAWN	ASTM B88	WROUGHT COPPER	WATER SAFE SOLDER	70 PSIG	100 PSIG	
HOSE BIBB/WALL HYDRANT-1ST	1	-	-	-	-	2.5	2.5	1.875	1.875							BCuP			_
HOSE BIBB/WALL HYDRANT-ADDITIONAL	8	-	-	-	-	1	8	0.75	6			1-1/4" - 6"	CAST IRON NO-HUB	CISPI 301	NO-HUB CAST IRON	NO-HUB	AMBIENT	5 PSIG	
HANDWASHING STATION	13	1	13	-	-	2	26	1.5	19.5		ABOVE GRADE	1-1/4" - 3"	COPPER TYPE DWV	ASTM B306	WROUGHT COPPER	WATER SAFE SOLDER	AMBIENT	5 PSIG	
PREP SINK	6	TO FS	-	-	-	2	12	1.5	9	SANITARY WASTE						BCuP			_
POT FILLER/KETTLE	8	TO FS	-	-	-	3	24	2.25	18			1-1/4" - 6"	CAST IRON NO-HUB	CISPI 301	NO-HUB CAST IRON	NO-HUB	AMBIENT	5 PSIG	
3-COMPARTMENT SINK	1	TO FS	-	-	-	3	3	2.25	2.25		BELOW GRADE	1-1/4" - 6"	ABS - SCHEDULE 40	ASTM D1527	ABS - SCHEDULE 40	SOLVENT WELD	AMBIENT	5 PSIG	Ť
DISHMACHINE	1	TO FS	-	-	-	-	-	-	-				(SOLID WALL)		(SOLID WALL)				_
FLOOR DRAIN 2"	22	2	44	-	-	-	-	-	-	SANITARY VENT	ABOVE GRADE BELOW GRADE	1-1/4" - 4"	ABS - SCHEDULE 40 (SOLID WALL)	ASTM D1527	ABS - SCHEDULE 40 (SOLID WALL)	SOLVENT WELD	AMBIENT	5 PSIG	
FLOOR SINK 3"	31	2	62	-	-	-	-	-	-	CONDENSATE DRAINAGE	ABOVE GRADE	1-1/4" - 3"	COPPER TYPE DWV	ASTM B306	WROUGHT COPPER	WATER SAFE SOLDER	AMBIENT	5 PSIG	
FLOOR SINK/TROUGH (ICE WELL)	2	-	-	2	4	-	-	-	-							BCuP			_
FIRE RISER HUB DRAIN 4"	1	-	-	6	6	-	-	-	-	STORM DRAIN	BELOW GRADE	1-1/4" - 4"	ABS - SCHEDULE 40 (SOLID WALL)	ASTM D1527	ABS - SCHEDULE 40 (SOLID WALL)	SOLVENT WELD	AMBIENT	5 PSIG	
TOTALS FIXTURES	= 103	WASTE DFU =	122	WASTE DFU =	41	CWSFU	115	HWSFU	67	TRAP PRIMER	ABOVE GRADE BELOW GRADE	3/8" - 1/2"	PEX-A	ASTM F876 ASTM F877	LEAD FREE BRASS	UPONOR PRO-PEX	70 PSIG	100 PSIG	Ť
	UMBING WATE					-				COMPRESSED AIR	ABOVE GRADE	1/2" - 2"	BLACK STEEL SCHEDULE 40	ASTM A53	BLACK STEEL SCHEDULE 40	THREADED	100 PSIG	150 PSIG	+

	PLUMBING WATER SUP	PLY C		ULATION
SITE / BUILDING DATA				
MAXIMUM COLD WA	ATER DEMAND	115	FIXTU	RE UNITS = 71 GPM
KITCHEN, MECHAN	ICAL, EMERGENCY EQUIPMENT MAKEUP	30	GPM	
IRRIGATION MAKEL	IP	3/4" CO	NNECT	TON, SEE LANDSCAPE
TOTAL PEAK DEMA	ND	101	GPM (	PLUS IRRIGATION)
MINIMUM COLD WA	TER SERVICE MAIN REQUIRED	2-1/2"	COLD	WATER SERVICE
BUILDING ELEVATION	ON TO HIGHEST FIXTURE	5	FT	
BUILDING ELEVATIO	ON AT LOW POINT	0	FT	
PRESSURE REQUIR	RED AT MOST REMOTE FIXTURE	35	PSI (P	ER MANUFACTURER REQUIREMENTS)
HORIZNOTAL LENG	TH OF LONGEST PIPING RUN	250	FT	
EQUIVALENT LENG	TH (LENGTH X 1.2)	300	FT	
CALCULATE WATER PRESS	SURE FOR HIGHEST FIXTURE			
PRESSURE AT WAT	ER MAIN	71	PSI (B	ASED ON CITY RECORDS)
PRESSURE DROP T	HROUGH METER	9	PSI (10	01 GPM THRU 2" DISC TYPE METER)
PRESSURE DROP T	HROUGH RPBP	9	PSI	
PRESSURE DROP T	HROUGH PRESSURE REDUCE VALVE	5	PSI	
PRESSURE LOSS D	UE TO ELEVATION	2.2	PSI (5'	ELEVATION X .434 PSI/FT)
PRESSURE TO OPE	RATE LAST FIXTURE	35	PSI	
PRESSURE AVAILA	BLE FOR PIPE FRICTION	10.8	PSI	_
MAX PRESSURE LC	SS PER 100 FT OF PIPE	3.6	PSI / 1	00 FT (BASED ON 300' EQUIVALENT)
DESIGN PRESSURE	LOSS PER 100 FT OF PIPE	3.0	PSI / 1	00 FT
	GREASE INTERCEPTOR IN	NFORM	ΙΑΤΙ	
FOOD SERVICE ESTABLISHM	ENT CONTACT INFORMATION:			UO UNIVERSITY HOUSING
GREASE INTERCEPTOR SIZIN				
TOTAL GREASE DFU'S PER FI			120	DFU's
	FOR GRAVITY INTERCEPTOR		1,500	GALLONS - MINIMUM
GREASE PRODUCTION ESTIN			1,000	
ESTIMATED MEALS PER DAY			3,000	MEAL/DAY
ESTIMATED GREASE PER ME	A1		0.046	LBS/MEAL
WEEKLY GREASE PRODUCTI				
			682.5	LBS
1 MONTH (4.25 WEEK) ESTIMA			,900.6	
6 MONTHS (26 WEEK) ESTIMA		17	7,745.0	LR2
GI-1 SPECIFICATION:	OLDCASTLE PRECAST 712-GA-CWS			
	2500 GALLON			
	7'-11" X 13'-0" X 8'-0"	00-0-		
	(3) 30" DIAMETER GASKETED MANHOLE AG			
	COORDINATE REQUIREMENT FOR (MAXIM	IUM 12") E	XTENS	ION COLLARS AT MANHOLE INSTASLLATION

4" INLET, 4" OUTLET NOTE: PC TO FURNISH GI-1, INSTALLED BY OTHERS.

		PLUN	<b>IBING VAI</b>	LVE SCHEDULE					PLUMB	ING PIPE H	ANGER SCH	EDULE	
SERVICE	SIZE	PIPE	FUNCTION	ТҮРЕ	CLASS	MFG	MODEL NO.	HORIZONTAL SPACING:	PIPE SIZE:	1/2" - 3/4"	1" - 1-1/2"	2"	2-1/2" - 3"
				BALL VALVE: LEAD FREE					COPPER	6 FT	6 FT	10 FT	10 FT
	1/2 - 4"	COPPER	SHUT OFF	3-PIECE, FULL-PORT, BRONZE CONSTRUCTION	600	APOLLO	82LF140		PEX-A W/ PIPE SUPPORT	6 FT	8 FT	8 FT	NA
	1/2 - 2"	COPPER	GATE	GATE VALVE: LEAD FREE, BRONZE CONSTRUCTION	150	APOLLO	106T		STEEL	10 FT	10 FT	12 FT	12 FT
DOMESTIC COLD WATER	2-1/2 - 4"	COPPER	GATE	GATE VALVE: LEAD FREE, DUCTILE IRON CONSTRUCTION	150	NIBCO	F-639-31		PVC/ABS (SCHED 40)	-	4 FT	4 FT	4 FT
DOMESTIC HOT WATER DOMESTIC HOT WATER				BUTTERFLY VALVE: LEAD				NO HUB CAST IRON PIPE:			RS PER PIPE SECTION		
CIRCULATION	2-1/2 - 4"	COPPER	SHUT OFF	FREE, 10 POSITION HANDLE, DUCTILE IRON	200	APOLLO	LD141		( <i>'</i> ,		OF DIRECTION AND		Э.
				CONST				NOTE: FOR PEX-A WITH PIPE S	UPPORT, REFER TO DI	ETAIL FOR PIPE S		IENTS	
	1/2 - 3"	COPPER	CHECK	SWING CHECK VALVE: LEAD FREE	200	APOLLO	161S-LF	HANGER SCHEDULE:	PIPE MATERIAL	PIPE SIZE	GALV. ROD	MFG.	FIG.
									COPPER	1/2" - 3"	3/8"	ANVIL	CT-69
	1/2 - 2"	COPPER	BALANCE	CIRCUIT SETTER BALANCING VALVE	300	GRINNELL	CB800		PEX-A W/ PIPE	1/2" - 2"	3/8"	ANVIL	CT-69
COMPRESSED AIR	1/2 - 3"	STEEL	SHUT OFF	BALL VALVE	600	APOLLO	89-100		SUPPORT STEEL	1/2" - 2"	3/8"	ANVIL	CT-69
ACCEPTABLE ALTERNATE N	/ANUFACTUREI	RS: HAMMOND,	MILWAUKEE		1	•			PVC/ABS (SCHED 40)	1/2" - 2"	3/8"	ANVIL	CT-69
									(SURED 40)				
									CAST IRON	1-1/2" - 4"	3/8"	ANVIL	CT-69

BASE ASSEMBLY WEIGHT 20,880 LBS; TOP ASSEMBLY WEIGHT 15,830 LBS

## PLUMBING INSULATION SCHEDULE

INSULATION THICKNESS TABLE:								
SYSTEM	FLUID OPER. TEMP. F	INSULATION TYPE	INSULATION CONDUCTIVITY (BTU/IN)/ (HR-FT2-F)	MEAN TEMP.	RUNOUTS UP TO 2" LESS THAN 12 FT.	1" AND LESS	1-1/4" - 2"	
DOMESTIC CW	45-75	FIBERGLASS W/ ASJ	0.24-0.28	55	1/2"	1/2"	1/2"	
DOMESTIC HWS AND HWR	105-140	FIBERGLASS W/ ASJ	0.24-0.28	115	1/2"	1"	1"	

PLUMBING I	DENTIFIC	ATION AND PIPE L	ABELING SCHEDU	LE
PIPE LABELLING				
SERVICE	SYMBOL	MARKER	MARKER COLOR	
DOMESTIC COLD WATER	CW	COLD WATER	GREEN	
DOMESTIC HOT WATER SUPPLY	HWS	HOT WATER SUPPLY	GREEN	
DOMESTIC HOT WATER RECIRCULATED	HWR	HOT WATER RECIRCULATED	GREEN	
SANITARY WASTE	W	WASTE	GREEN	
SANITARY GREASE WASTE	GW	GREASE WASTE	GREEN	
SANITARY VENT	V	VENT	GREEN	
COMPRESSED AIR	CA	COMPRESSED AIR	BLUE	
NOTES: 1. INSTALL LABEL ON PIPING MAIN 2 WRAP PIPING LABEL END WITH F			NNECTIONS	

2. WRAP PIPING LABEL END WITH FLOW ARROW TAPE AROUND PIPE.

3. LABEL PIPING WITHIN 3 FT OF EACH SHUT OFF VALVE, WALL/FLOOR PENETRATION, BRANCH TAKE OFF. EQUIPMENT IDENTIFICATION:

1. BLACK PLASTIC NAME PLATE WITH WHITE ENGRAVED LETTERS. 2. MINIMUM 1/2" HIGH LETTERS WITH EQUIPMENT TAG DESIGNATION.

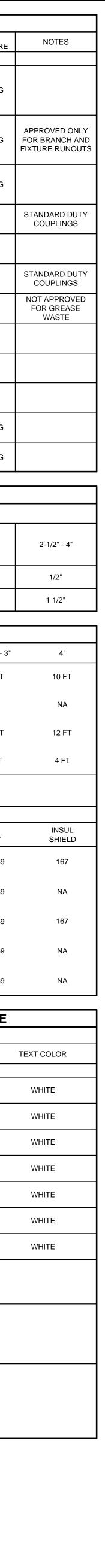
3. INSTALL TO EQUIPMENT WITH ADHESIVE, RIVETS, CHAIN, OR QUICK TIES.

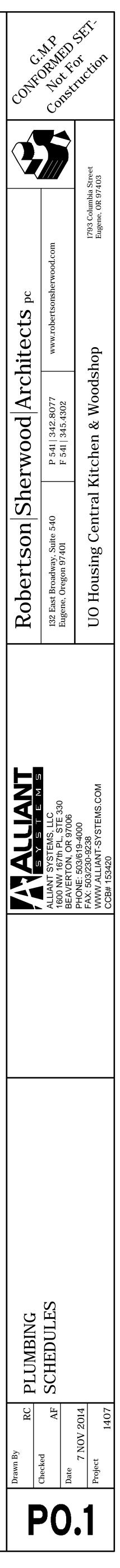
VALVE TAGGING:

1. TAG CONTROL VALVES AND BUILDING MAIN SHUTOFF VALVES.

2. 1-1/2" DIAMETER BRASS VALVE TAG WITH STAMPED LETTERS ON CHAIN.

3. STAMP CONTROL VALVE NUMBER AND/OR PIPING SYSTEM SERVICE SYMBOL.





														,											
FIXTURE	DESCRIPTION	k	COLD WATER				UMBING VENT	FIXTURE	CA CA	AC	CESSORIES/R	EMARKS		FIXTURE	DESC	RIPTION	COLD WATE	KITCHE				NNECTION S	CA	_E	ACCESSORIES/REMARKS
TAG K-2	FREEZER COILS (		SIZE -	SIZE	WASTE -	WASTE 3/4" (3)	SIZE -	GPM	SIZE SCFI	ROUTE 1" CD TO FLO	OR SINK, PRO	VIDE TRAP A		TAG			SIZE	SIZE	WASTE	WASTE	SIZE	GPM SIZE		WALL MOUNTED	, RUN CW TO ITEMS K-97, K-102, K-103, K-104, K-105,
K-5	THAW COOLER CO	OIL	-	-	-	3/4"	-	-		INDIRECT CON ROUTE 1" CD TO FLOO INDIRECT CON	OR SINK, PRO	VIDE TRAP A	ND APPROVED	K-106		_TER SYSTEM	3/4"	-	-	3/4"	-	1.5 -	-	SUPPLY	FROM CW MANIFOLD PROTECTED BY RPBP
K-7		OILS (2)	-	-	-	3/4" (2)	-	-		ROUTE 1" CD TO FLOO INDIRECT CON	INECTION AT D	ORAIN TERMI	NATION.	K-109		SH STATION	1/2"	-	1-1/2"	-	-		-		NG CONTRACTOR TO PROVIDE - SEE EW-1
K-14	PREP ROOM COILS HAND SINK (2)	. ,	- 1/2" (2)	- 1/2" (2)	- 1-1/2" (2)	3/4" (3)	- 1-1/2" (2)	- 1 (0.5 EA)		ROUTE 1" CD TO FLOO INDIRECT CON		DRAIN TERMI	NATION.	K-112 K-116		DD, WATER WAS	;H - 1/2"	1" (140F)	-	2"	-		-		ON FROM K-127, ROUTE 2" DRAIN TO FLOOR SINK
K-17 K-22	HAND SINK (2)		1/2 (2)	1/2 (2)	1-1/2 (2)	-	1-1/2 (2)	0.5 EA)			UNG STAINLES			K-117		ILLET (30 GAL)	1/2"	1/2"	-	-	-				
K-24	HAND SINK		1/2"	1/2"	1-1/2"	-	1-1/2"	0.5		WALL HU	UNG STAINLES	SS STEEL SIN	IK	K-118	TILTING SKI	ILLET (40 GAL)	1/2"	1/2"	-	-	-		-		
K-29	VEGETABLE WASH S PRE-RINSE	SINK /	1/2"	1/2"	-	2"	-	3		ROUTE 2" DRAIN TO FL INDIRECT CON				K-119		KETTLE (80 GAL	) 1/2"	1/2"	-	-			-		3/4" CONDENSATE DRAIN
K-35	HAND SINK		1/2"	1/2"	1-1/2"	-	1-1/2"	0.5		WALL HU ROUTE 2" DRAIN TO FL	UNG STAINLES			K-120 K-121		H DRAIN (2) ID SINK	- 1/2"	- 1/2"	3" (2) 1-1/2"		2" (2)		-		- VALL HUNG STAINLESS STEEL SINK
K-36 K-39	TABLE W/ SINK & WALL SPARE	_ SHELF	1/2" -	1/2" -	-	2"	-	2.2 -		INDIRECT CON	INECTION AT D	DRAIN TERMI	NATION.	K-121 K-124		DD, WATER WAS		1/2 1" (140F)	-	- 2" (2)	-	0.5 -	-		ON FROM K-127, ROUTE 2" DRAIN TO FLOOR SINK
K-42	COOK / CHILL TAN	NK	3/4"	3/4"	-	2" (75GPM)	-	15		ROUTE 2" DRAIN TO FLU INDIRECT CON															OD WASH DOWN CYCLES; AIR GAP PROVIDED BY
K-43	PUMP/FILL STATIO	ON	-	-	-	2"	-	-	3/8" 8	ROUTE 2" DRAIN TO FL INDIRECT CONNECT	ION AT DRAIN	TERMINATIC	DN, 3/8" DRAIN	K-127	HOOD CON	NTROL PANEL	-	1" (140F)	-	1"	-	7.7 -	-		BY PLUMBING CONTRACTOR, ROUTE 1" DRAIN TO FLOOR SINK
										DISCONNECT WITH 15F				K-137	TABLE V	WITH SINK	1/2"	1/2"	-	2"	-	2.2 -		ROUTE 2" DRAII	N TO FLOOR SINK, PROVIDE TRAP AND APPROVED
K-44 K-45	VACUUM CLIPPE EXHAUST HOOD, WATE		-	- 1" (140F)	-	- 2"	· ·	-	3/8" 8	COMPRESSED	AIR: 60 SCFM		ET: 90PSI	K-147	COOL	ER COIL	-	-	-	3/4"	-		-	ROUTE 3/4" CD	CT CONNECTION AT DRAIN TERMINATION. TO FLOOR SINK, PROVIDE TRAP AND APPROVED CT CONNECTION AT DRAIN TERMINATION.
				. (,		-								K-151	MOF	P SINK	1/2"	1/2"	3"	-	2"	9.6 -	-	PLUMBI	NG CONTRACTOR TO PROVIDE - SEE MS-1
K-48	TILTING KETTLE W/ IN AGITATOR (100 G/		3/4"	3/4"		3/4" (10 GPM)		10	1/4" 1	3/4" COOLING WATER 80-90 PSI, ROUTE 3/4" D APPROVED INDIREC	DRAIN TO FLOO	OR SINK, PRO	OVIDE TRAP AND	K-154		SH STATION	1/2"	-	1-1/2"	-	-		-		NG CONTRACTOR TO PROVIDE - SEE EW-1
					2"		0"							K-155 K-157		ID SINK	1/2"	1/2"	1-1/2"	-	1-1/2"	0.5 - 2.65 -	-		VALL HUNG STAINLESS STEEL SINK MP 40F-140F MAX, 150PSI MAX STATIC
K-49 	TRENCH DRAIN		- 1/2"	- 1/2"	3" 	- 3/4"	2"	-		3/4	- I" CONDENSAT	E DRAIN							-	-	-		-		TMENT SINK, (3) 2" INDIRECT WASTES COMBINE TO
K-50	TRENCH DRAIN (	,	-	-	3" (2)	-	2" (2)	-			-			K-158		SINK ASSEMBLY	3/4" (2)	3/4" (2)	-	2" (3)	-	2.5 -	-		2" AND ROUTE TO FLOOR SINK
K-52	STATIONARY KETTLE (	80 GAL.)	1/2"	1/2"	-	3/4"	-	-		3/4	1" CONDENSAT	E DRAIN		K-160			1/2"	-	2"	-	-	-	-	DISP	OIR DRAIN: 2" DRAIN FROM VALVE, CONNECT TO OSER DRAIN PIPING AHEAD OF P-TRAP
K-53	TRENCH DRAIN	1	-	-	3"		2"	-			-			K-161 K-162		WASHER		3/4"	-	2"	-		-	RUN H	IW FROM ITEM K-162 - BOOSTER HEATER
K-55	HAND SINK (2)		1/2" (2)	1/2" (2)	1-1/2" (2)	-	1-1/2" (2)	1 (0.5 EA)		WALL HU	UNG STAINLES			K-162 K-163		DUCT (2)		-	-	- 1" (2)	-		-		- MECHANICAL COORD REQ.
K-56	CONDENSING UN		-	-	-	1"	-	-		AND APPROVED INDIRE REFER TO KITCHEN	ECT CONNECT	ION AT DRAI	N TERMINATION.	K-164	HAN	ID SINK	1/2"	1/2"	1-1/2"	-	1-1/2"	0.5 -	-		VALL HUNG STAINLESS STEEL SINK
K-57 K-59	UNIFILLER (COMPA		-	-	-	-	-				SED AIR FROM			K-166	CON	IVEYOR	1/2"	1/2"	-	1" (2)	-		-		WASTES COMBINE TO 2" AND ROUTE TO FLOOR SINK
K-60	UNIFILLER ISPOT FI	,	-	-	-	-	-	-	1/4" 4		SED AIR FROM			K-167		POSER	1/2"	-	3"		-	-	-	DISP	OIR DRAIN: 2" DRAIN FROM VALVE, CONNECT TO OSER DRAIN PIPING AHEAD OF P-TRAP
K-64	BLAST CHILLER	2	-	-	-	1"	-	-		ROUTE 1" CD TO FLO INDIRECT CON				K-168 K-169		E REEL	1/2"	1/2"	-	-	-	2.65 -	-		MP 40F-140F MAX, 150PSI MAX STATIC
K-69	REVOLVING OVEN (PI	ICARD)	1/2"	-	-	-	-	-		WATER SOFTENER: ( KITCHEN VENDOR), INS	TALL RPBP ON	N SOFTENER	DRAIN LINE AND	K-109 K-173			1/2"	1/2"	- 1-1/2"	-	- 1-1/2"	0.5 -		, ,	VALL HUNG STAINLESS STEEL SINK
											NEARBY SINK	TRAP	DINIECTION TO	K-174	BEVERAGE CO	OUNTER W/ SIN	K 1/2"	1/2"	-	1-1/2"	-	2.2 -	-		2" DRAIN TO FLOOR SINK, PROVIDE TRAP AND NDIRECT CONNECTION AT DRAIN TERMINATION.
K-70	OVEN DUCT		-	-	-	-	-	-		MEC ROUTE 1" DRAIN TO FL	CHANICAL COO		AND APPROVED	K-175	COFFEE UR	RN - 10 GAL (2)	1/2" (2)	-	-	-	-		-		FROM ITEM K-180 - WATER FILTER SYSTEM
K-71	ROTATING RACK O	VEN	-	1/2"	-	1"	-	-			ON AT DRAIN T COORD RE		N. MECHANICAL	K-176		URN - 3 GAL	1/2"	-	-	-	-		-		FROM ITEM K-180 - WATER FILTER SYSTEM
K-72	OVEN DUCT		-	-	-	-	-	-			CHANICAL CO			K-177		(ER - 3 GAL (2)	1/2" (2)	-	-	-	-		-		FROM ITEM K-180 - WATER FILTER SYSTEM
K-78 K-81	HAND SINK TABLE WITH SIN	IK	1/2"	1/2" 1/2"	1-1/2" _	- 2"	1-1/2"	0.5 2.2		ROUTE 2" DRAIN TO FL		OVIDE TRAP	AND APPROVED	K-179		SPENSER (2)	1/2" (2)	-	-	-	-		-		FROM ITEM K-180 - WATER FILTER SYSTEM ED, RUN CW TO ITEMS K-175, K-176, K-177, K-179,
K-82	3-COMPARTMENT S		1/2" (2)	1/2" (2)	-	2" (3)	-	-		INDIRECT CON TRIPLE COMPARTMENT		DIRECT WAS		K-180	WATER FIL	TER SYSTEM	3/4"	-	-	3/4"	-	1.5 -	-	K-183, K-184.SU	IPPLY FROM CW MANIFOLD PROTECTED BY RPBP
K-92	HAND SINK (2)		1/2" (2)	1/2" (2)	1-1/2" (2)	-	1-1/2" (2)	1 (0.5 EA)			UNG STAINLES		IK	K-182	ICI	E BIN				1"		-	-	INDIRE	N TO FLOOR SINK, PROVIDE TRAP AND APPROVED CT CONNECTION AT DRAIN TERMINATION.
K-93	EXHAUST HOOD, WATE	R WASH	-	1" (140F)	-	2"	-	-		HW C	CONNECTION F	ROM K-127		K-183	ICE	CUBER	1/2"	-	-	1/2"	-		-	DRAIN TO FLOO	ITEM K-180 - WATER FILTER SYSTEM, ROUTE 1/2" R SINK, PROVIDE TRAP AND APPROVED INDIRECT ONNECTION AT DRAIN TERMINATION.
K-97	COMBI OVEN, STEA		3/4" (2)	-	-	1-1/2"	-	-		RUN CW FROM I	ITEM K-106 - W	ATER FILTER	R SYSTEM	K-184		CUBER	1/2"		_	1/2"				RUN CW FROM	ITEM K-180 - WATER FILTER SYSTEM, ROUTE 1/2" R SINK, PROVIDE TRAP AND APPROVED INDIRECT
K-98	BAKE OVEN (DOYC	,	1/4"	1" (140F)		0"											172	-		172					ONNECTION AT DRAIN TERMINATION.
K-100	COMBI OVEN, STEA		- 3/4" (2)	-	-	1-1/2"		-		RUN CW FROM I	CONNECTION F		R SYSTEM	K-186 K-187		CH DRAIN	-	-	2"	- 1/2"	2"		-		- IN TO FLOOR SINK, PROVIDE TRAP AND APPROVED
K-103	COMBI OVEN, STEA	MER	3/4" (2)	-	-	1-1/2"	-	-		RUN CW FROM I				K-187 K-190		R COILS (2)	-	-	-	3/4" (2)	-		-	ROUTE 1" CD TO	CT CONNECTION AT DRAIN TERMINATION. DRAIN, PROVIDE TRAP AND APPROVED INDIRECT DNNECTION AT DRAIN TERMINATION.
K-104	COMBI OVEN, STEA	MER	3/4" (2)	-	-	1-1/2"	-	-		RUN CW FROM I	ITEM K-106 - W	ATER FILTER	R SYSTEM	K-192	COOL	ER COIL	-	-	-	3/4"	-			ROUTE 1" CD TO	D DRAIN, PROVIDE TRAP AND APPROVED INDIRECT DNNECTION AT DRAIN TERMINATION.
K-105	COMBI OVEN, STEA	MER	3/4" (2)	-	-	1-1/2"	-	-		RUN CW FROM I				K-194	FREEZ	ZER COIL	-	-	-	3/4"	-		-		DRAIN, PROVIDE TRAP AND APPROVED INDIRECT DNNECTION AT DRAIN TERMINATION.
K-106	WATER FILTER SYS	STEM	3/4"	-	-	3/4"	-	1.5		WALL MOUNTED, RUN C SUPPLY FROM C				K-195	HOS	SE BIBB	1/2"	1/2"	-	-	-		-	HO	SE BIBB WITH SHUT-OFF VAVLVE REQ.
										·														L	
					- 1 -								-			PLUI	MBING FIXT	URE SCHE	DULE			-			
DEL NO.	EAT IN EFFICIENCY CW MBH %	F T	IW SET FEMP F	FLOW RANGI UNIT (GPM)	RI		BS		IURE AG	DESCRIPTION	WASTE SIZE (DFU)	VENT SIZE (DFU)	COLD WATER SIZ (WSFU)	-	MANUFACTURER	MODEL NUMBER		COLOR MC	UNTING	FLUSH VALVE O	R FAUCET SET	SUPPLY PIPES AND STOPS	P-TRAP	STRAINER	ACCESSORIES/REMARKS
27FFUD)		60		26 - 5.4 @ 70 F				[ ]	W-1 EN	IERGENCY EYE WASH	1 1/2" (2)	1 1/2" (2)	1/2"	1/2"	HAWS	7460BT	STAINLESS STEEL	-	WALL	-		-	-	-	PROVIDE MIXING VALVE FOR 85F DELIVERY
ODEL RU98i		60 60	-	26 - 5.4 @ 70 F 		V/1Ph 9 V/1Ph 9	90 1. 90 1.	2 2 7	co	FLOOR CLEAN OUT	SIZE ON PLANS	-	-	-	WATTS	CO-200-R	BRONZE	- F	LOOR	-		-	-	-	
	33,000 92	80	140 0.4	20-3.4 @ 701	120	W/TEIL 9		F	D-1	FLOOR DRAIN	2" (2)			_	WATTS	FD-1100-B	EPOXY COATED CAST	- F	LOOR			_			5" DIAMETER STAINLESS STEEL STRAINER
SORIES XINNAI MCC-45-4-L	19)																IRON								12" X 12" FLOOR SINK WITH 1/2 SIZE STAINLESS STEEL
	MBUSTION INTAKE AND EX	(HAUST							S-1	FLOOR SINK	3" (2)	-	-	-	WATTS	FS-740	CAST IRON	- F	LOOR	-		-	-	-	GRATE
DNNSECT SWITCH	I AT EACH UNIT								B-1	HOSE BIBB	-	-	3/4" (1)	-	WOODFORD	MODEL 65	BRASS	CHROME	WALL	-		-	-	-	FREEZELESS WALL HYDRANT
	PLUMBING EQUI	PMENT	SCHEDU	JLE				F	B-2	HOSE BIBB	-	-	3/4" (1)	-	WOODFORD	MODEL 24	BRASS	CHROME	WALL	-		-	-	-	HOT WATER WALL HYDRANT FOR INDOOR INSTALLATION, PROVIDE WITH DRYWALL MOUNTING KIT
R SUPPLY CONNE	CTION PPP PRIME-RITE					ERIES LF 009 I			B-3	HOSE BIBB	-		1/2" (1)	1/2" (1)	WOODFORD	MODEL 122	BRASS		WALL	-		_	-		HOT AND COLD WATER MIXING WALL HYDRANT FOR INDOOR INSTALLATION, PROVIDE WITH DRYWALL
ATIC TRAP PRIME		<u>BP-1</u>	PRESSUF WATER.	ке BACKFLOV	V PREVENTER	R FOR EQUIPM	MENT MAKEUP																		MOUNTING KIT
IC TRAP PRIMINO	CTION PPP PRIME-TIME G VALVE. INCLUDES		DDFOO			TTS LFU5B, LE			B-4	HOSE BIBB	-	-	3/4" (1)		WOODFORD	MODEL Y30	BRASS	CHROME F	LOOR	-		-	-	-	FLREEZELESS POST YARD HYDRANT
M BREAKER, PRE	-SET 24 HOUR CLOCK, CONNECTION AND (6)	<u>PRV-1</u>		RE REDUCING BLE INLINE.	VALVE - VVA	I IS LEUSB, LE	.~₽ FREE 2",		1	LAVATORY	1 1/4" (1)	1 1/4" (1)	1/2" (1)	1/2" (.75)	KOHLER	K-2006	VITREOUS CHINA	WHITE WA	LL HUNG	MOEN M-DUF SINK MOUNT 4'	RA 8215F05 CENTERSET	MCGUIRE H2165 LK	MCGUIRE C8872	MCGUIRE 155AECO	LAMINAR 0.5 GPM; TRUBRO LAV GUARD 2 MODEL #102 E-Z; PROVIDE WITH LAVATORY SUPPORTS JRSMITH CONCEALED ARM OR EQUAL.
PP SC-SERIES SY	STEM RATED PLUS					GRUNDFOSS L			S-1 M0	DP SINK 24" X 36" X 10"	4" (3)	2" (3)	1/2" (2)	1/2" (1.5)	MUSTEE	65M	DURASTONE	CHROME	-	WALL MOUNT SERV CHICAGO FAL		-	-	-	
ESTOR. INSTALL LL RISERS OR FIX	PER CODE TURES WITH FLUSH	<u>HCP-1</u>				HP, 120V/1PH LOCK, AQUAS			SINK 25"-04"	OD / 21"x16"x6 1/2" DEEP SINGLE	F						STAINLESS			MOEN M-DURA			, McGUIRE		
									SINK 25"x21"	OD / 21"x16"x6 1/2" DEEP SINGLE BASIN	E 1 1/2" (2)	1 1/2" (2)	1/2" (1)	1/2" (.75)	ELKAY	LRAD2521	STAINLESS	- co	DUNTER	MOEN M-DURA DECK MOUNT 8'		McGUIRE 2167CCL	8912CBECO	ELKAY LK35	PROVIDE 1.5 GPM VANDAL PROOF LAMINAR OUTLET
EE KITCHEN EQUI	PMENT SCHEDULE:	<u>HCP-2</u>		1 X 1 X 5.25, R		Bell and gos 7 GPM @ 30' He				" OD / 24"x24"x16" DEEP SINGLE SIN FLOOR STANDING	1 1/2" (2)	1 1/2" (2)	1/2" (1)	1/2" (.75)	JUST MFG	J-127-JHL	STAINLESS STEEL	- F	LOOR	CHICAGO FAL WALL MOUNT SERV		-	McGUIRE 8912CBECO	ELKAY LK35	
ELAIRE MODEL 31	8VLE TWO STAGE		_2.71111						H-1	SHOWER	2" (2)	1 1/2" (2)	1/2" (1.5)	1/2" (1.5)	FIBER FAB	40 H1KD (40 X 42 X 80)	FRP	WHITE FLC		MOEN 52236GBM15 HAND HELD SHOWE	R HEAD AND 8370	-	-	-	DRAIN MODEL: PROFLO PF140NC W/ STAINLESS STEEL STRAINER
COMPRESSOR, 2 CAL CONNECTION	2.3 CFM AT 100 PSIG, I, VERTICAL PACKAGE	<u>ET-1</u>		ON TANK - AM 2 GALLON ACC		A-X-TROL ST-1	2, 4.4 GALLON		C-1	WATER CLOSET	4" (4)	2" (4)	1" (5)		AMERICAN	MADERA 16-1/2" HIGH	VITREOUS	WHITE F	LOOR	POSI-TEMP V AMERICAN STA EXPOSED MANUAL 1	NDARD 6047		INTEGRAL	<u> </u>	PROFLO PFTSCOF2000WH WHITE, OPEN SEAT
EVER TANK. PRO ODEL 107.	VIDE LA-MAN		., 512						C-1			<u>د (4)</u>	(6)	-	STANDARD	16-1/2" HIGH 3461	CHINA	F		EXPOSED MANUAL 1 FLUSH		-			
TLET - 1/2" FEMAL /IBER C10.	E QUICK DISCONNECT	<u>ST-1</u>				TANK - AO SMI TANK OR EQU		V	со	WALL CLEAN OUT	SIZE ON PLANS	-	-	-	WATTS	CO-460-RD	BRONZE	-	WALL	-		-	-	-	-
			200 GALL		UTORAGE		// \L.																		
D SERIES HOSE	REEL WITH 50' OF 1/2"		SUPERHI	EATED REFRI	GERANT HEA	TANK - THERM	WATER																		
	VIDE WITH 1/2" INLET	<u>DWPH-1,2</u>	PLATE AN OUTLETS	ND 3/4" REFRI	GERANT INLE I WATER CAP	RANT HEAT EX ETS, 5/8" REFR PACITY TANK, 1 LVE.	IGERANT																		

	INSTANTANEOUS GAS WATER HEATER SCHEDULE													
UNIT	SERVICE	MANUFACTURER	HEAT IN	EFFICIENCY	CW TEMP	HW SET	FLOW RANGE	ELEC	WEIGHT	NOTES				
NO.	& LOCATION	& MODEL NO.	MBH	%	F	TEMP F	UNIT (GPM)	REQU	LBS					
GWH-1	DOMESTIC WATER - MECHANICAL ROOM	RINNAI MODEL RU98i (KB327FFUD)	199,000	92	60	140	0.26 - 5.4 @ 70 F DT	120V/1Ph	90	1, 2				
GWH-2	DOMESTIC WATER - MECHANICAL ROOM	RINNAI MODEL RU98i (KB327FFUD)	199,000	92	60	140	0.26 - 5.4 @ 70 F DT	120V/1Ph	90	1, 2				
GWH-3	DOMESTIC WATER - MECHANICAL ROOM	RINNAI MODEL RU98i (KB327FFUD)	199,000	92	60	140	0.26 - 5.4 @ 70 F DT	120V/1Ph	90	1, 2				
NOTES:														

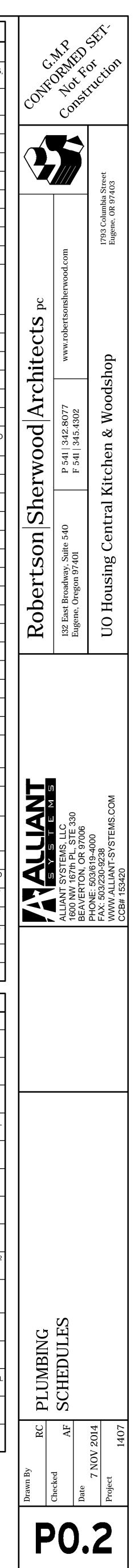
1. PROVIDE UNITS WITH THE FOLLOWING MANUFACTURER'S ACCESSORIE

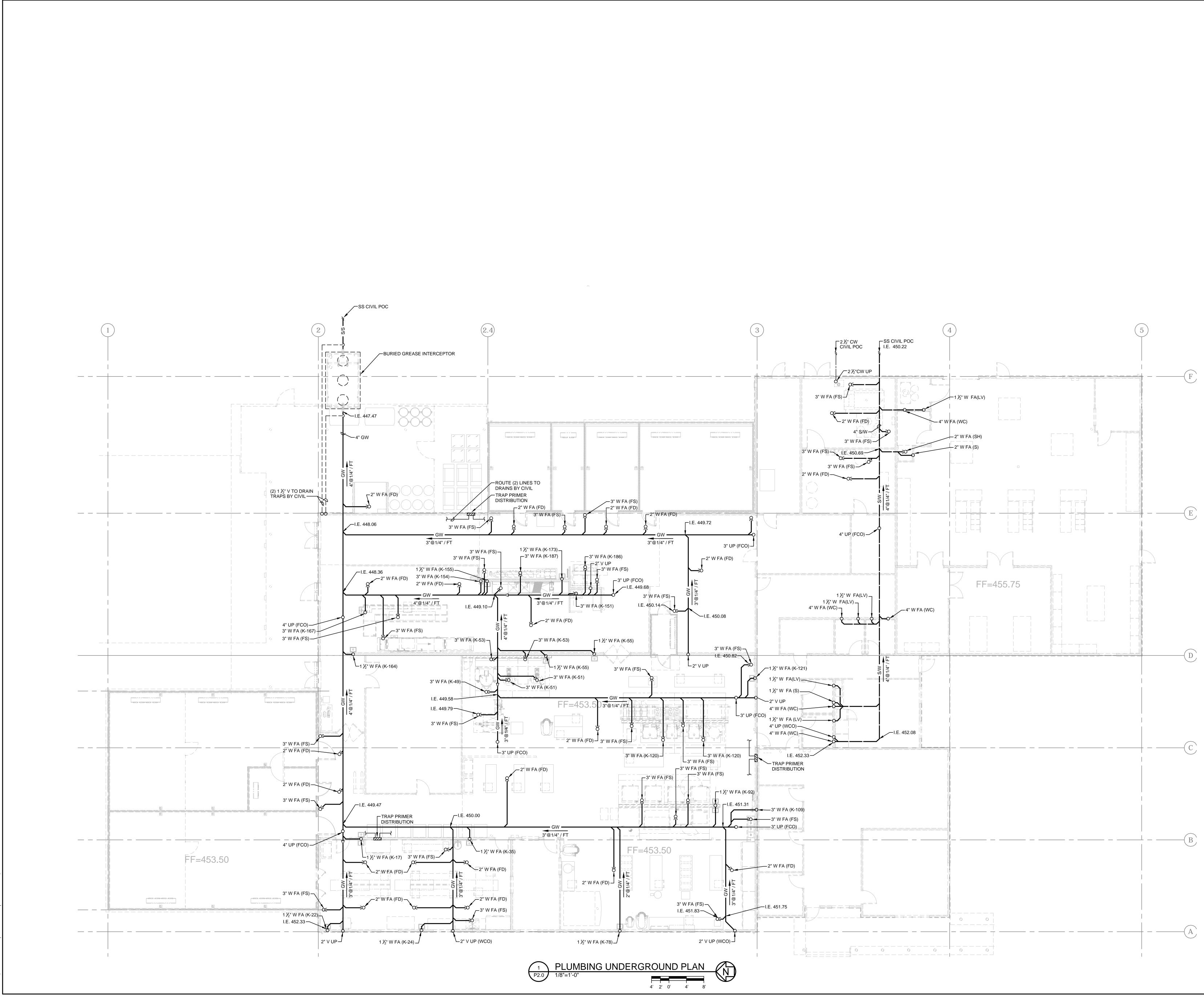
- WALL MOUNTING FRAME/BRACKET - REMOTE CONTROL PANEL FOR SEQUENCING (3) TOTAL UNITS (RINNA

- MANUFACTURER'S CONCENTRIC FLUE SYSTEM AND ROOF TERMINAT - PROVIDE W/ MANUFACTURER'S GAS PRV FOR 2 PSI INLET & 5-10.5" W. 2. ELECTRICAL CONTRACTOR TO F

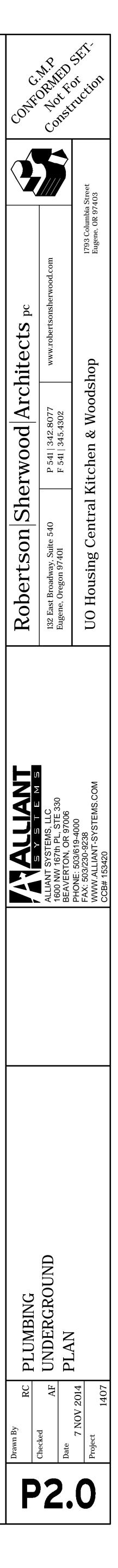
	PLUMBING EQUI	PMENT S	SCHEDULE
<u>TP-1</u>	TRAP PRIMER - WATER SUPPLY CONNECTION PPP PRIME-RITE MODEL PR-500 AUTOMATIC TRAP PRIMER VALVE.	<u>BP-1</u>	BACKFLOW PREVENTER - WATTS SERIES LF 009 REDUCED PRESSURE BACKFLOW PREVENTER FOR EQUIPMENT MAKEUP WATER.
<u>TP-2</u>	TRAP PRIMER - WATER SUPPLY CONNECTION PPP PRIME-TIME MODEL PT6 ELECTRONIC TRAP PRIMING VALVE. INCLUDES ATMOSPHERIC VACUUM BREAKER, PRE-SET 24 HOUR CLOCK, MANUAL OVER RIDE SWITCH, 3/4" INLET CONNECTION AND (6) 1/2" OUTLET COMPRESSION FITTINGS.	PRV-1	PRESSURE REDUCING VALVE - WATTS LFU5B, LEAD FREE 2", SERVICABLE INLINE.
<u>SA-1</u>	SHOCK ABSORBER - PPP SC-SERIES SYSTEM RATED PLUS WATER HAMMER ARRESTOR. INSTALL PER CODE REQUIREMENTS ON ALL RISERS OR FIXTURES WITH FLUSH VALVES.	HCP-1	HOT WATER CIRCULATING PUMP - GRUNDFOSS UP26-64 RATED FOR 5 GPM @ 20' HEAD 1/12 HP, 120V/1PH. PROVIDE W/ INTEGRAL PROGRAMMABLE TIMECLOCK, AQUASTAT, AND LINE CORD.
<u>AC-1</u>	AIR COMPRESSOR - SEE KITCHEN EQUIPMENT SCHEDULE: ITEM 57	HCP-2	HOT WATER CIRCULATING PUMP - BELL AND GOSSETT SERIES 60, SIZE 1 X 1 X 5.25, RATED FOR 17 GPM @ 30' HEAD 1/4 HP, 120V/1PH.
<u>AC-2</u>	AIR COMPRESSOR - BELAIRE MODEL 318VLE TWO STAGE ELECTRIC PISTON AIR COMPRESSOR, 22.3 CFM AT 100 PSIG, 7.5 HP, 208/1 ELECTRICAL CONNECTION, VERTICAL PACKAGE WITH 80 GALLON RECIEVER TANK. PROVIDE LA-MAN EXTRACTOR/DRYER MODEL 107.	<u>ET-1</u>	EXPANSION TANK - AMTROL THERM-X-TROL ST-12, 4.4 GALLON TANK, 3.2 GALLON ACCEPTANCE.
<u>CA-1</u>	COMPRESSED AIR OUTLET - 1/2" FEMALE QUICK DISCONNECT COUPLER, AMFLO NUMBER C10.	<u>ST-1</u>	DOMESTIC HOT WATER STORAGE TANK - AO SMITH TJV-200M 200 GALLON INSULATED STORAGE TANK OR EQUAL.
<u>HR-1</u>	HOSE REEL - GRACO SD SERIES HOSE REEL WITH 50' OF 1/2" HOSE FOR COMPRESSED AIR USE. PROVIDE WITH 1/2" INLET AND MOUNTING KIT.	<u>DWPH-1,2</u>	DOMESTIC HOT WATER PRE-HEAT TANK - THERMA-STOR II-4 SUPERHEATED REFRIGERANT HEAT RECOVERY WATER HEATER WITH 4 CIRCUIT REFRIGERANT HEAT EXCHANGE PLATE AND 3/4" REFRIGERANT INLETS, 5/8" REFRIGERANT OUTLETS, 114 GALLON WATER CAPACITY TANK, 1-1/4" WATER CONNECTIONS, AND T/P RELIEF VALVE.

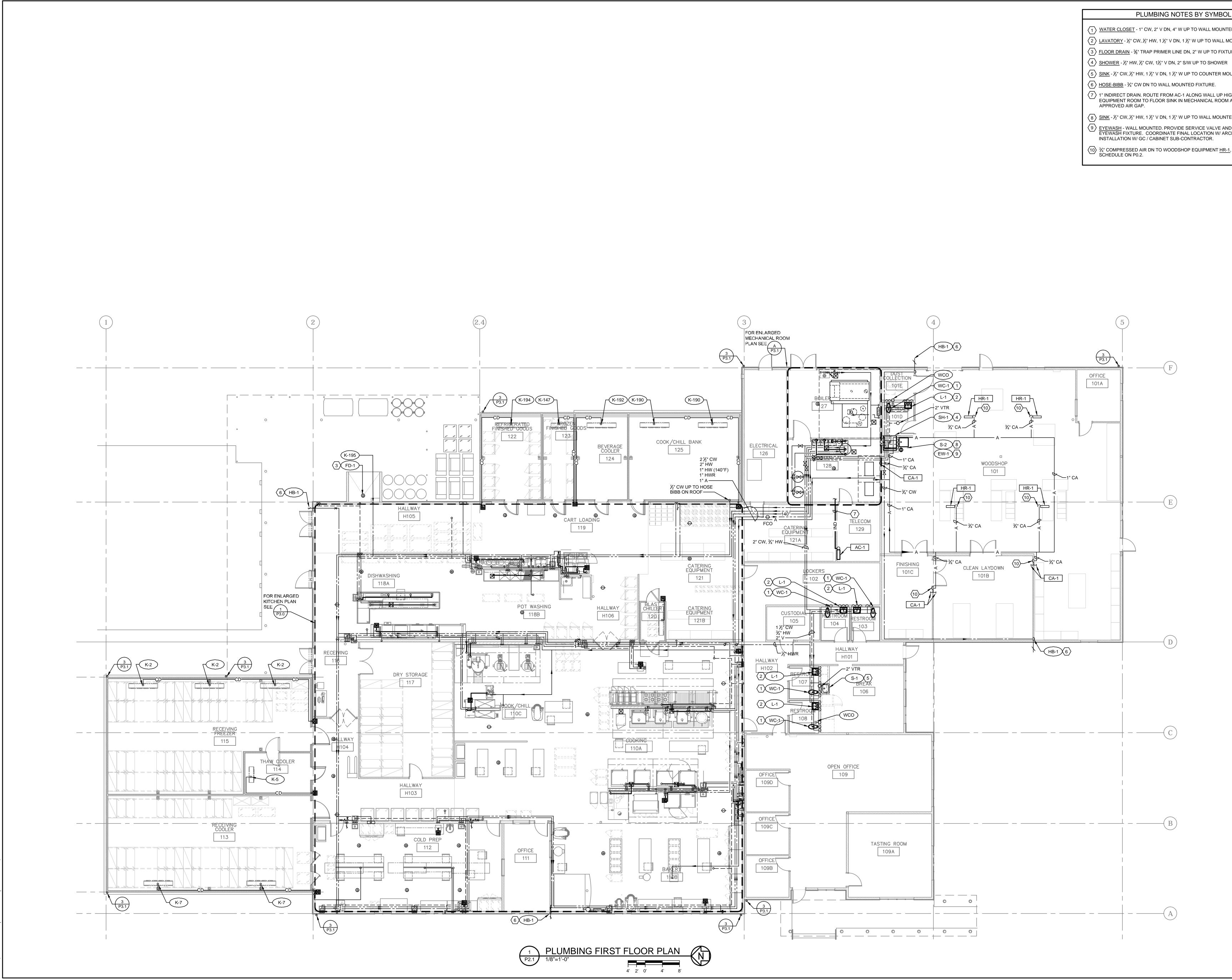
	)N SC	HEDUL	LE								KITCI			KITCHEN EQUIPMENT PLUMBING CONNECTION SCHEDULE								
	CA SIZE	CA SCFM		ESSORIES/R	REMARKS		FIXTURE	DESC	CRIPTION	COLD WATE SIZE	-	TER DIRE	CT INDIRECT		IXTURE CA GPM SIZE	CA		ACCESSORIES/REMARKS				
	-	SCFM -	ROUTE 1" CD TO FLOC				TAG K-106	WATER FI	LTER SYSTEM	3/4"	SIZE	WAS	<u>1E WASTE</u> 3/4"	SIZE	<u>GPM SIZI</u> 1.5 -			, RUN CW TO ITEMS K-97, K-102, K-103, K-104, K				
	-	-	ROUTE 1" CD TO FLOC INDIRECT CON	R SINK, PRO IECTION AT D	VIDE TRAP AN DRAIN TERMIN	D APPROVED ATION.												FROM CW MANIFOLD PROTECTED BY RPBP				
	-	-	ROUTE 1" CD TO FLOO INDIRECT CON	IECTION AT D	DRAIN TERMIN	ATION.	K-109		SH STATION	1/2"	-	1-1/2		-		-		NG CONTRACTOR TO PROVIDE - SEE EW-1				
	-	-	ROUTE 1" CD TO FLOC INDIRECT CON	ECTION AT D	DRAIN TERMIN	ATION.	K-112				1" (140	,	2"	-		-	HW CONNECTIO	ON FROM K-127, ROUTE 2" DRAIN TO FLOOR SI				
A)	-	-			SS STEEL SINK		K-116 		KILLET (23 GAL) KILLET (30 GAL)	1/2"	1/2"			-		-						
_	-	-			SS STEEL SINK		K-118		KILLET (40 GAL)	1/2"	1/2"		-	-								
	-	-	ROUTE 2" DRAIN TO FLC	OR SINK, PRO	OVIDE TRAP A	ND APPROVED	K-119	STATIONARY	KETTLE (80 GAL.)	1/2"	1/2"	-	-			-		3/4" CONDENSATE DRAIN				
	-	-			SS STEEL SINK		K-120	TRENCI	H DRAIN (2)	-	-	3" (2	?) -	2" (2)		-		-				
	-	-	ROUTE 2" DRAIN TO FLC INDIRECT CON				K-121	HAN	ND SINK	1/2"	1/2"	1-1/2	<u>-</u>	1-1/2"	0.5 -	-	V	VALL HUNG STAINLESS STEEL SINK				
	-	-	ROUTE 2" DRAIN TO FLC	- OR SINK, PR(	OVIDE TRAP A	ND APPROVED	K-124	EXHAUST HO	OD, WATER WASH	-	1" (140	F) -	2" (2)	-		-	HW CONNECTIO	ON FROM K-127, ROUTE 2" DRAIN TO FLOOR SI				
	-	-					K-127		NTROL PANEL		1" (140	IF)	1"		7.7 -			OD WASH DOWN CYCLES; AIR GAP PROVIDED BY PLUMBING CONTRACTOR, ROUTE 1" DRAIN				
:	3/8"	8	ROUTE 2" DRAIN TO FLO INDIRECT CONNECT DISCONNECT WITH 15FT	ON AT DRAIN	I TERMINATION	N, 3/8" DRAIN	K-127		NTROL PANEL	-	1 (140	-		-	1.1 -	-	KEC INSTALLED	FLOOR SINK				
+	3/8"	8	COMPRESSED A	IR: 60 SCEM I	BURSTS INI F		K-137	TABLE	WITH SINK	1/2"	1/2"	-	2"	-	2.2 -	-		N TO FLOOR SINK, PROVIDE TRAP AND APPRO CT CONNECTION AT DRAIN TERMINATION.				
`	-	-		NNECTION F			K-147	COOI	LER COIL	-	-	-	3/4"	-		-	ROUTE 3/4" CD	TO FLOOR SINK, PROVIDE TRAP AND APPROV CT CONNECTION AT DRAIN TERMINATION.				
							K-151	МО	DP SINK	1/2"	1/2"	3"	-	2"	9.6 -	-	PLUMBI	NG CONTRACTOR TO PROVIDE - SEE MS-1				
	1/4"	1	3/4" COOLING WATER ( 80-90 PSI, ROUTE 3/4" DI APPROVED INDIRECT	RAIN TO FLOC	OR SINK, PROV	/IDE TRAP AND	K-154	EYEWAS	SH STATION	1/2"	-	1-1/2	-	-		-	PLUMBI	NG CONTRACTOR TO PROVIDE - SEE EW-1				
							K-155		ND SINK	1/2"	1/2"		-	1-1/2"	0.5 -	-		VALL HUNG STAINLESS STEEL SINK				
_	-	-		-			K-157	PRE	E-RINSE	1/2"	1/2"	-	-	-	2.65 -	-						
+	-	-	3/4"	CONDENSAT			K-158	POT WASH S	SINK ASSEMBLY	3/4" (2)	3/4" (2	2) -	2" (3)	-	2.5 -	-		TMENT SINK, (3) 2" INDIRECT WASTES COMBIN 2" AND ROUTE TO FLOOR SINK				
+	-	_	3/4"	CONDENSAT	TE DRAIN		K-160	DIS	POSER	1/2"	-	2"	-	-	-	-		OIR DRAIN: 2" DRAIN FROM VALVE, CONNECT OSER DRAIN PIPING AHEAD OF P-TRAP				
+	-	-		-			K-161		WASHER	-	3/4"	-	2"	-		-	RUN H	W FROM ITEM K-162 - BOOSTER HEATER				
	-	-	WALL HU	NG STAINLES	SS STEEL SINK	ζ	K-162			-	3/4"		-	-		-		-				
	-	-	LOCATED ON ROOF, RO AND APPROVED INDIRE				K-163			-	-	-	1" (2)	-		-						
	-	-	REFER TO KITCHEN	CONSULTANT	T EQUIPMENT	DRAWINGS	K-164  K-166		ND SINK	1/2"	1/2"		- 1" (2)	1-1/2"	0.5 -			VALL HUNG STAINLESS STEEL SINK WASTES COMBINE TO 2" AND ROUTE TO FLO				
	1/4"	3			ITEM K-57, 80		K-168		SPOSER	1/2"	-	3"		-				SINK OIR DRAIN: 2" DRAIN FROM VALVE, CONNECT OSER DRAIN PIPING AHEAD OF P-TRAP				
	1/4"	4	COMPRESSI ROUTE 1" CD TO FLOC		ITEM K-57, 80		K-168	HOS	SE REEL	1/2"	1/2"	-		-	2.65 -	-		MP 40F-140F MAX, 150PSI MAX STATIC				
	-	-	INDIRECT CON WATER SOFTENER: C	ECTION AT D	DRAIN TERMIN	ATION.	K-169	PRE	E-RINSE	1/2"	1/2"	-	-	-								
	-	-	KITCHEN VENDOR), INST VACUUM BREAKER ON	ALL RPBP ON APPROVED	N SOFTENER D	DRAIN LINE AND	K-173	HAN	ND SINK	1/2"	1/2"	1-1/2	-	1-1/2"	0.5 -	-		VALL HUNG STAINLESS STEEL SINK				
+	_	_		EARBY SINK			K-174	BEVERAGE C	OUNTER W/ SINK	1/2"	1/2"	-	1-1/2"	-	2.2 -	-		2" DRAIN TO FLOOR SINK, PROVIDE TRAP AND IDIRECT CONNECTION AT DRAIN TERMINATIO				
			ROUTE 1" DRAIN TO FLC	OR SINK, PRO	OVIDE TRAP A		K-175	COFFEE UI	RN - 10 GAL (2)	1/2" (2)	-	-	-	-		-		FROM ITEM K-180 - WATER FILTER SYSTEM				
_	-	-	INDIRECT CONNECTIO	COORD RE	EQ.	MECHANICAL	K-176		URN - 3 GAL	1/2"	-	-	-	-		-		FROM ITEM K-180 - WATER FILTER SYSTEM				
+	-	-			· · · · · · · · · · · · · · · · · · ·		K-177		VER - 3 GAL (2)	1/2" (2)	-	-	-	-		-		FROM ITEM K-180 - WATER FILTER SYSTEM				
—	-	-	WALL HU ROUTE 2" DRAIN TO FLC		SS STEEL SINK		K-179		SPENSER (2)	1/2" (2)	-	-	-	-		-		FROM ITEM K-180 - WATER FILTER SYSTEM				
+	-	-	INDIRECT CON	SINK, (3) 2" INI	DIRECT WAST		K-180	WATER FI	LTER SYSTEM	3/4"	-	-	3/4"	-	1.5 -	-		ED, RUN CW TO ITEMS K-175, K-176, K-177, K-1 PPLY FROM CW MANIFOLD PROTECTED BY R				
<u> </u>	-	-		ROUTE TO F	FLOOR SINK	(	K-182	IC	CE BIN				1"		-	-		NTO FLOOR SINK, PROVIDE TRAP AND APPRO CT CONNECTION AT DRAIN TERMINATION.				
	-	-	HW CC	NNECTION F	-ROM K-127		K-183	ICE	CUBER	1/2"	-	-	1/2"	-		-	DRAIN TO FLOO	ITEM K-180 - WATER FILTER SYSTEM, ROUTE R SINK, PROVIDE TRAP AND APPROVED INDIR				
	-	-	RUN CW FROM IT	EM K-106 - W	ATER FILTER	SYSTEM												DNNECTION AT DRAIN TERMINATION.				
	-	-					K-184	ICE	CUBER	1/2"	-	-	1/2"	-		-		R SINK, PROVIDE TRAP AND APPROVED INDIR DNNECTION AT DRAIN TERMINATION.				
	-	-	HW CC	NNECTION F	FROM K-127		K-186	TREN	ICH DRAIN	-	-	2"	-	2"		-		-				
	-	-	RUN CW FROM IT	EM K-106 - W	ATER FILTER	SYSTEM	K-187	TREN	ICH DRAIN	-	-	-	1/2"	-		-	INDIRE	N TO FLOOR SINK, PROVIDE TRAP AND APPRO CT CONNECTION AT DRAIN TERMINATION.				
_	-	-	RUN CW FROM IT				K-190	COOLE	R COILS (2)	-	-	-	3/4" (2)	-		-	CC	DRAIN, PROVIDE TRAP AND APPROVED INDIR DNNECTION AT DRAIN TERMINATION. DRAIN, PROVIDE TRAP AND APPROVED INDIR				
	-	-	RUN CW FROM IT				K-192			-	-	-	3/4"	-		-	CC	DRAIN, PROVIDE TRAP AND APPROVED INDIR DNNECTION AT DRAIN TERMINATION. DRAIN, PROVIDE TRAP AND APPROVED INDIR				
	_	_	WALL MOUNTED, RUN CV				K-194  K-195		ZER COIL	- 1/2"	- 1/2"	-	3/4"	-		-	CC	DNNECTION AT DRAIN TERMINATION. SE BIBB WITH SHUT-OFF VAVLVE REQ.				
	-	-	SUPPLY FROM C	V MANIFOLD	PROTECTED I	BY RPBP				172	1/2											
FIXTUR				WASTE SIZE		COLD WATER SIZE	HOT WATER		MODEL	BING FIXT					SUPPLY PIPES A							
TAG				(DFU)	(DFU)	(WSFU)	SIZE (WSFU)	MANUFACTURER	NUMBER	MATERIAL STAINLESS	COLOR	MOUNTING	FLUSH VALVE	OR FAUCET SET	STOPS	P-TRAP	STRAINER					
EW-1		∟MERG	SENCY EYE WASH	1 1/2" (2)	1 1/2" (2)	1/2"	1/2"	HAWS	7460BT	STEEL	-	WALL		-	-	-	-	PROVIDE MIXING VALVE FOR 85F DELIVERY				
FCO		FLOC	OR CLEAN OUT	SIZE ON PLANS	-	-	-	WATTS	CO-200-R	BRONZE	-	FLOOR		-	-	-	-					
FD-1		FL	_OOR DRAIN	2" (2)	-	-	-	WATTS	FD-1100-B C	EPOXY OATED CAST IRON	-	FLOOR		-	-		-	5" DIAMETER STAINLESS STEEL STRAINER				
FS-1			LOOR SINK	3" (2)	_			WATTS		ENAMELED		FLOOR		_				12" X 12" FLOOR SINK WITH 1/2 SIZE STAINLESS S				
۱-ی ،		F		~ ( <i>L</i> )	-	-				CAST IRON		. 2001			-			GRATE				
HB-1		H	HOSE BIBB	-	-	3/4" (1)	-	WOODFORD	MODEL 65	BRASS	CHROME	WALL		-	-	-	-	FREEZELESS WALL HYDRANT				
HB-2		ŀ	HOSE BIBB	-	-	3/4" (1)	-	WOODFORD	MODEL 24	BRASS	CHROME	WALL		-	-	-	-	HOT WATER WALL HYDRANT FOR INDOOR INSTALLATION, PROVIDE WITH DRYWALL MOUN KIT				
HB-3	-		HOSE BIBB			1/2" (1)	1/2" (1)	WOODFORD	MODEL 122	BRASS	CHROME	WALL		-				KI I HOT AND COLD WATER MIXING WALL HYDRANT INDOOR INSTALLATION, PROVIDE WITH DRYW				
د-ت. ∕		Г				··- (1)	= (1)											MOUNTING KIT				
HB-4		ŀ	HOSE BIBB	-	-	3/4" (1)	-	WOODFORD	MODEL Y30	BRASS	CHROME	FLOOR		-	-	-	-	FLREEZELESS POST YARD HYDRANT				
L-1		L	LAVATORY	1 1/4" (1)	1 1/4" (1)	1/2" (1)	1/2" (.75)	KOHLER	K-2006	VITREOUS CHINA	WHITE	WALL HUNG		JRA 8215F05 4" CENTERSET	MCGUIRE H2165	K MCGUIRE	MCGUIRE 155AECO	LAMINAR 0.5 GPM; TRUBRO LAV GUARD 2 MODE E-Z; PROVIDE WITH LAVATORY SUPPORTS JRS CONCEALED ARM OR EQUAL.				
				411 (0)	0" (2)			NI 1077					WALL MOUNT SEF									
MS-1		MOP SI	NK 24" X 36" X 10"	4" (3)	2" (3)	1/2" (2)	1/2" (1.5)	MUSTEE	65M [	DURASTONE	CHROME	-		UCET 897-CP	-	-	-					
S-1	SINK 2	25"x21" OD / 2	21"x16"x6 1/2" DEEP SINGLE BASIN	1 1/2" (2)	1 1/2" (2)	1/2" (1)	1/2" (.75)	ELKAY	LRAD2521	STAINLESS STEEL	-	COUNTER		RA 8225SMF15 8" GOOSENECK	McGUIRE 2167CC	LK McGUIRE 8912CBECO	ELKAY LK35	PROVIDE 1.5 GPM VANDAL PROOF LAMINAR OU				
S-2	SINK		/ 24"x24"x16" DEEP SINGLE	1 1/2" (2)	1 1/2" (2)	1/2" (1)	1/2" (.75)	JUST MFG	J-127-JHL	STAINLESS	_	FLOOR				McGUIRE	ELKAY LK35					
			FLOOR STANDING						40 H1KD	STEEL			MOEN 52236GBM1	VICE SINK FAUCET 5 ADA PACKAGE W/		8912CBECO						
SH-1			SHOWER	2" (2)	1 1/2" (2)	1/2" (1.5)	1/2" (1.5)	FIBER FAB	(40 X 42 X 80)	FRP	WHITE	FLOOR ADA	HAND HELD SHOW POSI-TEMP	/ER HEAD AND 8370 VALVE TRIM	-	-	-	DRAIN MODEL: PROFLO PF140NC W/ STAINLESS STRAINER				
		WA	ATER CLOSET	4" (4)	2" (4)	1" (5)	-	AMERICAN STANDARD	MADERA 16-1/2" HIGH 3461	VITREOUS CHINA	WHITE	FLOOR	EXPOSED MANUAL	TANDARD 6047 . TOP SPUD 1.28GPF I VALVE	-	INTEGRAL	-	PROFLO PFTSCOF2000WH WHITE, OPEN SE				
WC-1				0175 011										-			1	1				
WC-1		WAI	LL CLEAN OUT	SIZE ON PLANS	-	-	<u> </u>	WATTS	CO-460-RD	BRONZE	- 1	WALL		-	-	-	-	-				





.85% Robertson | Sherwood | Architects <sub>pc</sub>





$\begin{pmatrix} 1 \end{pmatrix}$ WATER CLOSET - 1" CW, 2" V DN, 4" W UP TO WALL MOUNTED F
2 LAVATORY - $\frac{1}{2}$ " CW, $\frac{1}{2}$ " HW, 1 $\frac{1}{2}$ " V DN, 1 $\frac{1}{2}$ " W UP TO WALL MOUN
$\langle 3 \rangle$ <u>FLOOR DRAIN</u> - $\%$ " TRAP PRIMER LINE DN, 2" W UP TO FIXTURE
$4$ SHOWER - $\frac{1}{2}$ " HW, $\frac{1}{2}$ " CW, 1 $\frac{1}{2}$ " V DN, 2" S/W UP TO SHOWER
$\left< 5 \right> SINK$ - $\frac{1}{2}$ " CW, $\frac{1}{2}$ " HW, 1 $\frac{1}{2}$ " V DN, 1 $\frac{1}{2}$ " W UP TO COUNTER MOUNT
$\langle 6 \rangle$ <u>HOSE-BIBB</u> - $\frac{3}{4}$ " CW DN TO WALL MOUNTED FIXTURE.
(7) 1" INDIRECT DRAIN. ROUTE FROM AC-1 ALONG WALL UP HIGH II EQUIPMENT ROOM TO FLOOR SINK IN MECHANICAL ROOM AND APPROVED AIR GAP.
8 SINK - $\frac{1}{2}$ " CW, $\frac{1}{2}$ " HW, 1 $\frac{1}{2}$ " V DN, 1 $\frac{1}{2}$ " W UP TO WALL MOUNTED F
9 EYEWASH - WALL MOUNTED. PROVIDE SERVICE VALVE AND EX EYEWASH FIXTURE. COORDINATE FINAL LOCATION W/ ARCHIT INSTALLATION W/ GC / CABINET SUB-CONTRACTOR.
$10$ $\frac{3}{4}$ " Compressed air dn to woodshop equipment <u>HR-1</u> , pe schedule on P0.2.

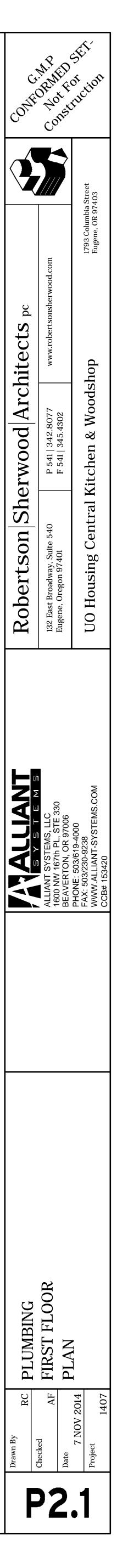
FIXTURE. NTED FIXTURE. E MOUNTED IN SLAB.

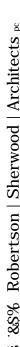
TED FIXTURE

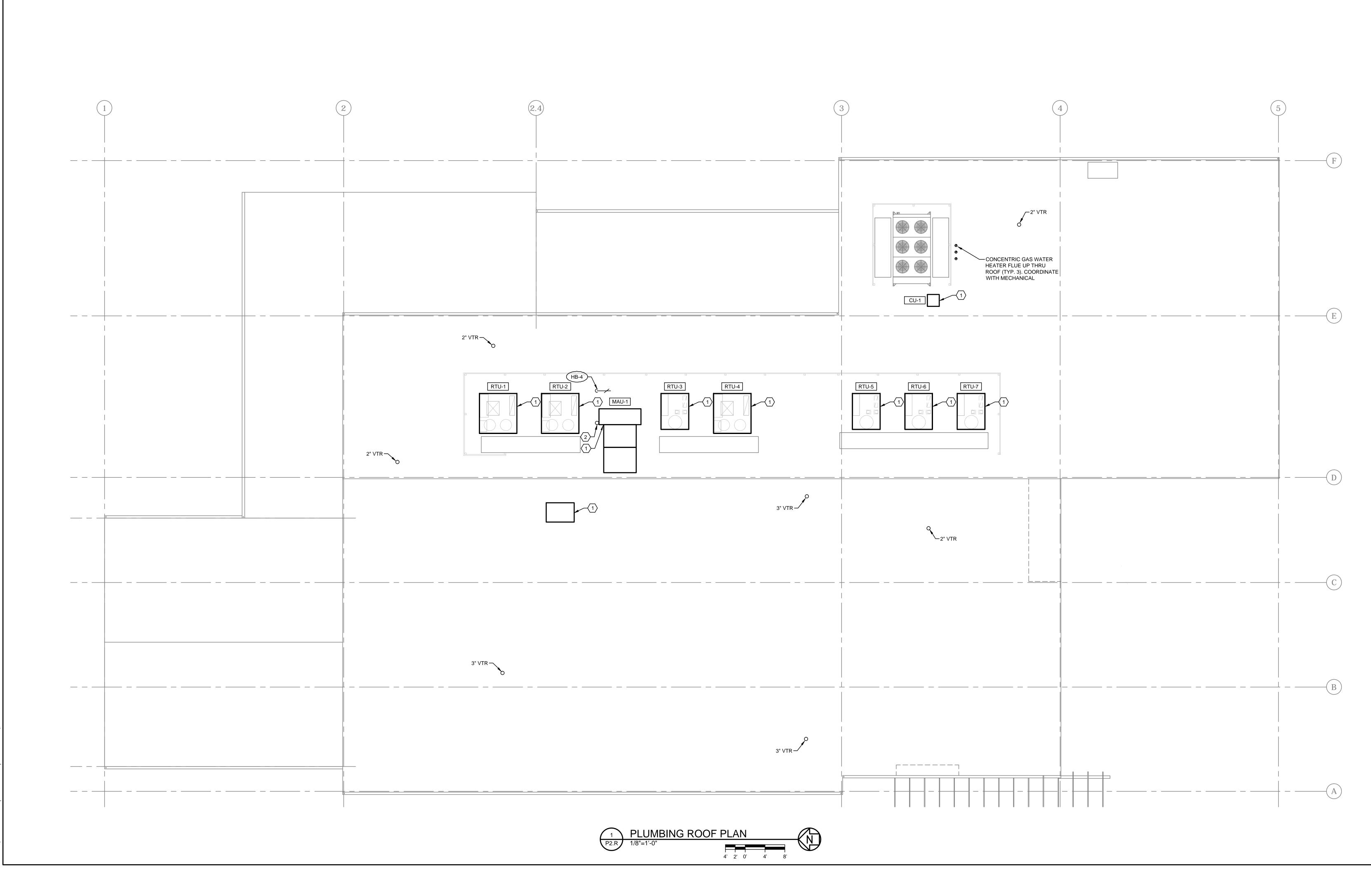
I IN CATERING ID TERMINATE WITH

FIXTURE EXTEND ½" CW TO ITECT AND

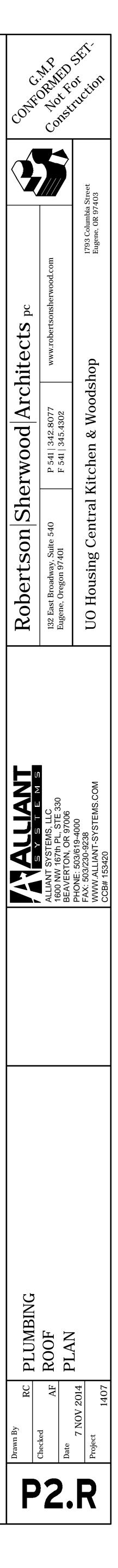
PER EQUIPMENT

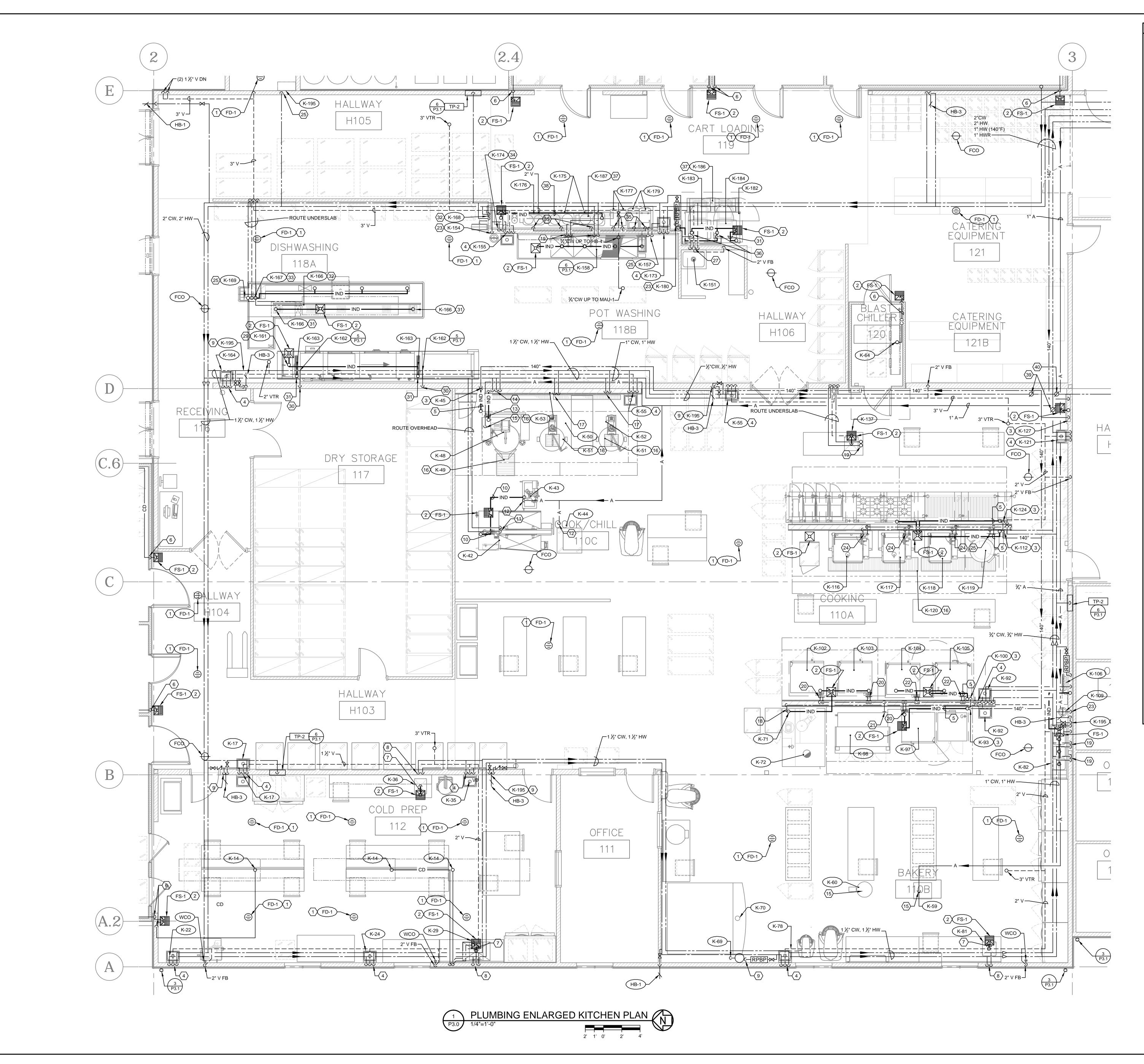






PLUMBING NOTES BY SYMBOL 1 1" CONDENSATE DRAIN, SEE DETAIL 8/P3.1 2 EVAPORATIVE COOLER MAKEUP-WATER AND DRAIN CONNECTIONS, SEE DETAIL 9/P3.1.





PLUMBING NOTES BY SYMBOL
$(1) \frac{1}{1} $
$\left< 2 \right> \frac{1}{10000000000000000000000000000000000$
AT EACH HOOD, MOUNTED OVERHEAD. $\overline{4}$ $\frac{1}{2}$ " CW, $\frac{1}{2}$ " HW, 1 $\frac{1}{2}$ " V DN, 1 $\frac{1}{2}$ " W UP TO SERVE KITCHEN EQUIPMENT
CONNECTIONS PER SCHEDULE ON P0.2. $\overline{(5)}$ 2" INDIRECT DRAIN FROM HOOD EXHAUST DN TO FLOOR SINK.
<ul> <li>(a) 2 INDIKECT DIVARIATION HOOD EXHAUST DIVICT LOOK SINK.</li> <li>(b) 2 INDIKECT DIVARIATION HOOD EXHAUST DIVICT LOOK SINK.</li> <li>(c) 2 INDIKECT DIVARIATION HOOD EXHAUST DIVICT LOOK SINK.</li> <li>(c) 2 INDIKECT DIVARIATION HOOD EXHAUST DIVICT LOOK SINK.</li> <li>(c) 2 INDIKECT DIVARIATION HOOD EXHAUST DIVICT LOOK SINK.</li> <li>(c) 2 INDIKECT DIVARIATION HOOD EXHAUST DIVICT LOOK SINK.</li> <li>(c) 2 INDIKECT DIVARIATION HOOD EXHAUST DIVICT LOOK SINK.</li> <li>(c) 2 INDIKECT DIVARIATION HOOD EXHAUST DIVICT LOOK SINK.</li> </ul>
7 2" INDIRECT DRAIN, ROUTE BELOW COUNTER, TERMINATE WITH APPROVED AIR GAP AT FLOOR SINK.
$\langle 8 \rangle$ ½" CW AND ½" HW DN TO SERVE KITCHEN EQUIPMENT CONNECTIONS PER SCHEDULE ON P0.2.
(9) <u>HOSE BIBB</u> - ¾" CW, ¾" HW DN.
$\langle 10 \rangle$ 2" INDIRECT DRAIN, TERMINATE WITH APPROVED AIR GAP AT FLOOR SINK.
11 $34$ " CW and $34$ " HW DN TO SERVE KITCHEN EQUIPMENT CONNECTIONS PER SCHEDULE ON P0.2.
$\langle 12 \rangle$ $\frac{3}{8}$ " Compressed air dn to serve kitchen equipment connections per schedule on P0.2.
$3^{3}_{4}$ " INDIRECT DRAIN, TERMINATE WITH APPROVED AIR GAP AT FLOOR SINK.
(14) ¾" CW AND ¾" HW DN TO SERVE KITCHEN EQUIPMENT CONNECTIONS PER SCHEDULE ON P0.2.
$\langle 15 \rangle$ $\chi$ " COMPRESSED AIR DN TO SERVE KITCHEN EQUIPMENT CONNECTIONS PER SCHEDULE ON P0.2.
(16) 3" W UP, 2" V DN TO KITCHEN EQUIPMENT MOUNTED IN SLAB PER SCHEDULE ON P0.2.
17 ½" CW AND ½" HW DN, ¾" INDIRECT CONDENSATE DRAIN (TERMINATE WITH APPROVED AIR GAP AT FLOOR SINK) TO SERVE KITCHEN EQUIPMENT CONNECTIONS PER SCHEDULE ON P0.2.
$\langle 18 \rangle$ $\frac{1}{2}$ " HW DN, 1" INDIRECT DRAIN (TERMINATE WITH APPROVED AIR GAP AT FLOOR SINK) TO SERVE KITCHEN EQUIPMENT CONNECTIONS PER SCHEDULE ON P0.2.
19 ½" CW AND ½" HW DN, 2" INDIRECT DRAIN (TERMINATE WITH APPROVED AIR GAP AT FLOOR SINK) TO SERVE KITCHEN EQUIPMENT CONNECTIONS PER SCHEDULE ON P0.2.
20) ¾" CW (FILTERED FROM ITEM K-106) DN, ¾" NG DN, 1½" INDIRECT DRAIN (TERMINATE WITH APPROVED AIR GAP AT FLOOR SINK) TO SERVE KITCHEN EQUIPMENT CONNECTIONS PER SCHEDULE ON P0.2.
$\langle 21 \rangle$ ½" CW DN, ¾" NG DN TO SERVE KITCHEN EQUIPMENT CONNECTIONS PER SCHEDULE ON P0.2.
22 ¾" CW (FILTERED FROM ITEM K-106) DN, 1½" INDIRECT DRAIN (TERMINATE WITH APPROVED AIR GAP AT FLOOR SINK) TO SERVE KITCHEN EQUIPMENT CONNECTIONS PER SCHEDULE ON P0.2.
$\langle 23 \rangle$ $\frac{3}{4}$ " CW DN, $\frac{3}{4}$ " INDIRECT DRAIN (TERMINATE WITH APPROVED AIR GAP AT FLOOR SINK) TO SERVE KITCHEN EQUIPMENT CONNECTIONS PER SCHEDULE ON P0.2.
$\langle 24 \rangle$ ½" CW AND ½" HW DN, ½" NG DN TO SERVE KITCHEN EQUIPMENT CONNECTIONS PER SCHEDULE ON P0.2.
$\langle 25 \rangle$ $\frac{1}{2}$ " CW AND $\frac{1}{2}$ " HW DN TO SERVE KITCHEN EQUIPMENT CONNECTIONS PER SCHEDULE ON P0.2.
26 NOT USED.
$\langle 27 \rangle$ ½" CW AND ½" HW DN, 2" V DN, 2" W UP TO SERVE KITCHEN EQUIPMENT CONNECTIONS PER SCHEDULE ON P0.2.
$\langle 28 \rangle$ ½" CW DN, 2" W UP TO SERVE KITCHEN EQUIPMENT CONNECTIONS PER SCHEDULE ON P0.2.
$\langle 29 \rangle$ $34$ " HW DN, 2" INDIRECT DRAIN (TERMINATE WITH APPROVED AIR GAP AT FLOOR SINK) TO SERVE KITCHEN EQUIPMENT CONNECTIONS PER SCHEDULE ON P0.2.
$\langle 30 \rangle$ $3/3$ " HW DN TO SERVE KITCHEN EQUIPMENT CONNECTIONS PER SCHEDULE ON P0.2.
$\langle 31 \rangle$ 1" INDIRECT DRAIN, TERMINATE WITH APPROVED AIR GAP AT FLOOR SINK.
32 ½" CW AND ½" HW FROM BELOW SLAB TO SERVE KITCHEN EQUIPMENT CONNECTIONS PER SCHEDULE ON P0.2.
$\langle 33 \rangle$ ½" CW AND ½" HW DN, 3" W UP TO SERVE KITCHEN EQUIPMENT CONNECTIONS PER SCHEDULE ON P0.2.
34) ½" CW AND ½" HW DN, 1 ½" INDIRECT DRAIN (TERMINATE WITH APPROVED AIR GAP AT FLOOR SINK) TO SERVE KITCHEN EQUIPMENT CONNECTIONS PER SCHEDULE ON P0.2.
$\langle 35 \rangle$ $\frac{1}{2}$ " CW (FILTERED FROM ITEM K-180) DN TO SERVE KITCHEN EQUIPMENT CONNECTIONS PER SCHEDULE ON P0.2.
⟨36⟩ ½" CW (FILTERED FROM ITEM K-180) DN, ½" INDIRECT DRAIN (TERMINATE WITH APPROVED AIR GAP AT FLOOR SINK) TO SERVE KITCHEN EQUIPMENT CONNECTIONS PER SCHEDULE ON P0.2.
$\langle 37 \rangle$ 2" W UP, 2" V DN TO KITCHEN EQUIPMENT MOUNTED IN SLAB PER SCHEDULE ON P0.2.
$\langle 38 \rangle$ ½" INDIRECT DRAIN, TERMINATE WITH APPROVED AIR GAP AT FLOOR SINK.
39 BALANCE HWR VALVE TO 1.5 GPM.
40 BALANCE HWR VALVE TO 0.5 GPM

PLUMBING NOTES BY SYMBOL

