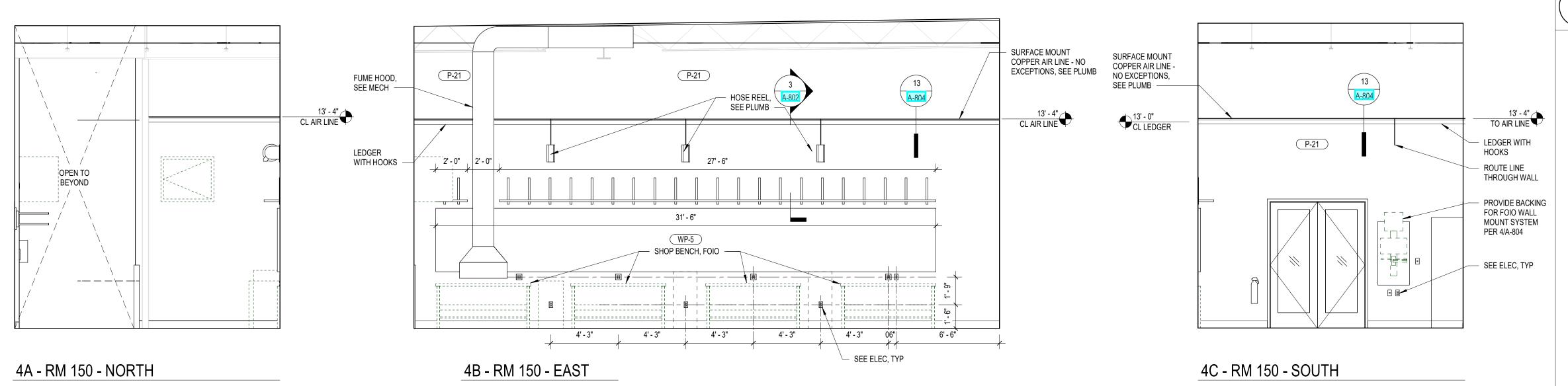
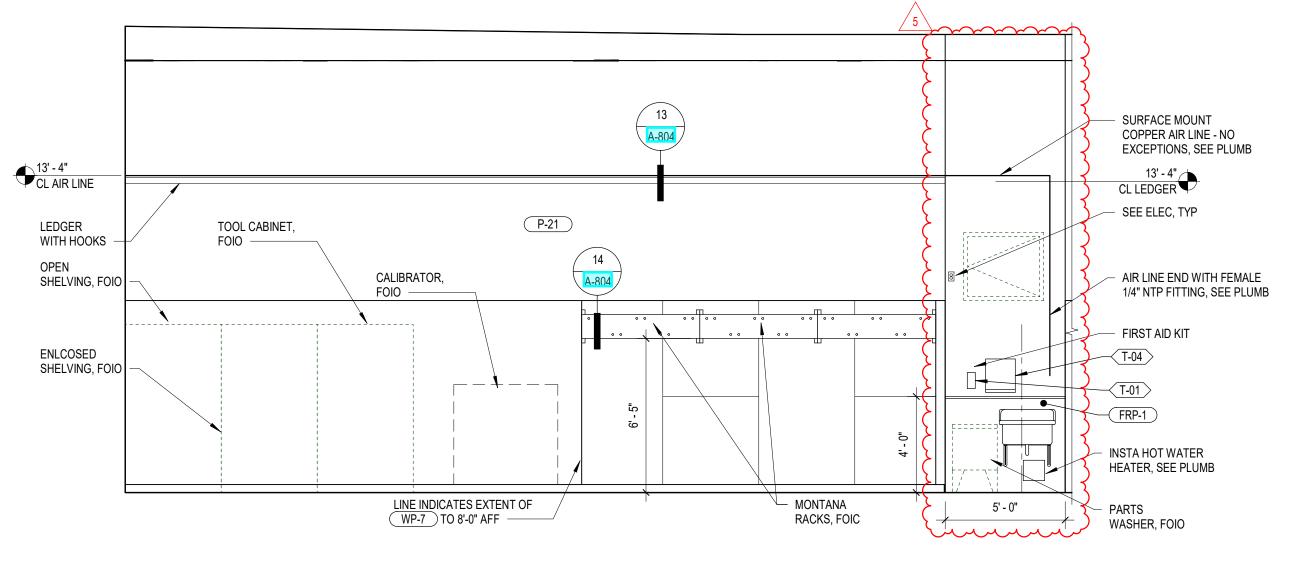


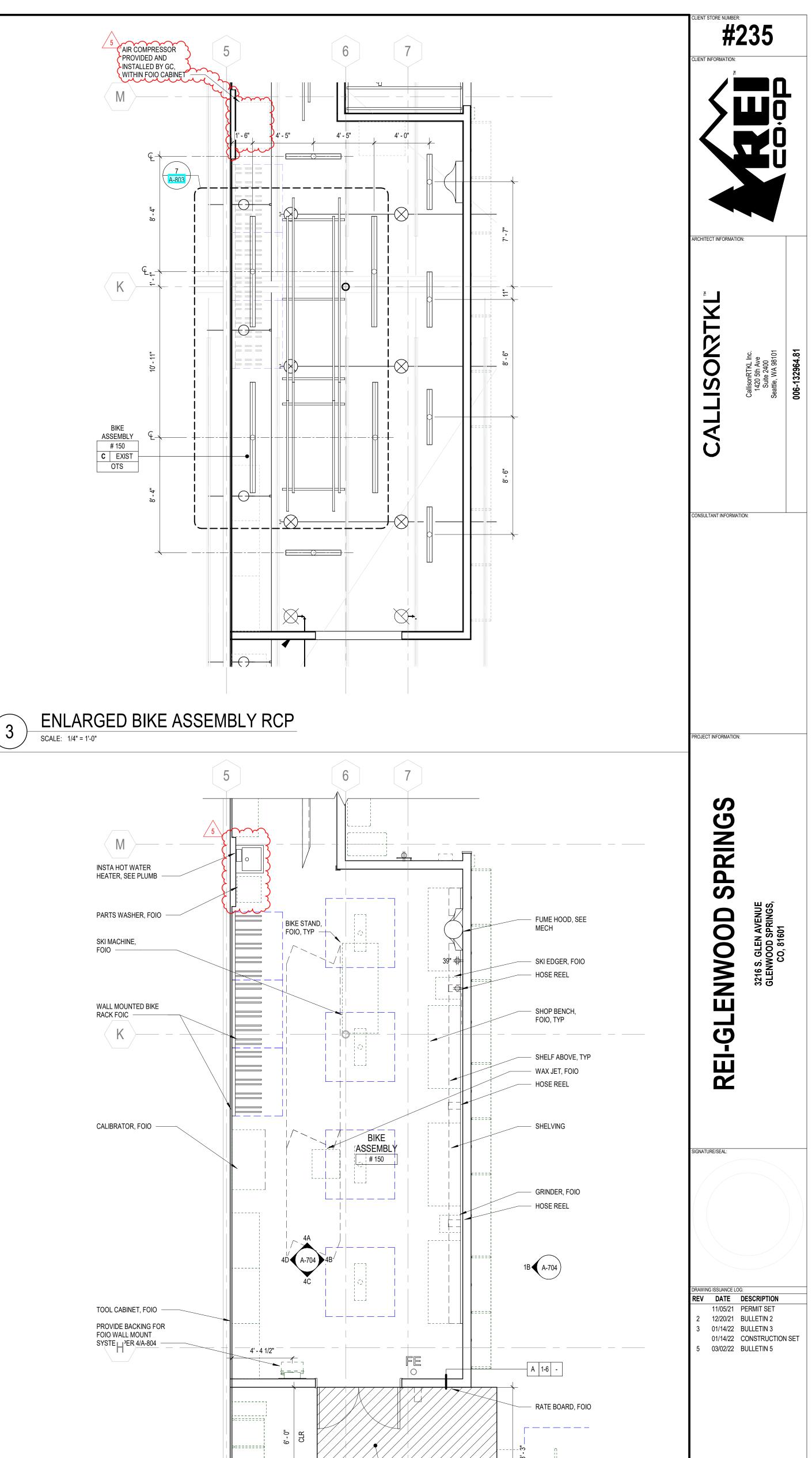
# BIKE ASSEMBLY EXTERIOR - ELEVATIONS SCALE: 1/4" = 1'-0"





4D - RM	150 - WEST	

ITEM	RESPONSIBILITY	TYPE OF SERVICE	MODEL NAME	POWER RQMTS	SPECIAL REQUIREMENTS
SHOP BENCH	FOIO	вотн	LISTA, 72"W X 30"D x 35.25"H, 3 DRAWERS		
MANUAL BIKE STAND	FOIO	вотн	PARK TOOL PRS 2.2C		
POWERED BIKE STAND	FOIO	вотн	PARK TOOL PRS 33.2	115V	POWER DROP FROM CEILING
PARTS CABINET	FOIO	вотн	LISTA MS 1350		
OPEN SHELVING UNIT	FOIO	ВОТН	HALLOWELL STARTER BOLTLESS SHELVING WITH PARTICLE BOARD DECKING		5 SHELVES, 48"W X 18"D X 84"H
GRINDING WHEEL WITH STAND	FOIO	вотн	DAYTON, 6" BENCH GRINDER		120V/240V, 1/3 HP, 3450 MAX. RPM, 1/2" ARBOR, 3.5/1.75 AMPS
HOSE REEL	FCIC	вотн	REFER TO PROJECT MANUAL		
COMPRESSOR	FCIC	вотн	REFER TO PROJECT MANUAL		
COMPRESSOR CABINET	FOIO	вотн			PROVIDED BY THE FIXTURE TEAM
PARTS WASHER	FOIO	вотн	BIKE CLEANERS MODEL: B2-XYG-912	115V	10' CORD LENGTH
WALL SHELVING	FCIC	вотн			
WALL CABINETS	FOIO	вотн	TENNSCO: COMMERCIAL STORAGE CABINET		BLACK, 72"H X 36"W X 18"D, ASSEMBLED
FILE CABINET	FOIO	вотн			
EXHAUST FAN	FCIC	SKI	REFER TO PROJECT MANUAL		CAP DUCTWORK AT 10' AFF IN BIKE ONLY STORES
MANUAL SKI MACHINE	FOIO	SKI	WINTERSTEIGER OMEGA SBI	220V	POWER DROP FROM CEILING
SKI EDGER	FOIO	SKI	WINTERSTEIGER TRIM B	115V	POWER DROP FROM CEILING
BINDING CALIBRATOR	FOIO	SKI	WINTERSTEIGER SAFETRONIC	220V	SKI HARDGOOD ASSORTED STORES ONLY
WAXER	FOIO	SKI	WINTERSTEIGER WAX JET PRO	115V	
REPAIR GUN	FOIO	SKI	WINTERSTEIGER POLYMAN	208V	WALL OUTLET LOCATED ON BENCH
WALL-MOUNTED SKI/BIKE STORAGE	FOIC	вотн	MONTANA EASY HANG		1-1/4" PLYWOOD UNDERLAYMENT
WALL-MOUNTED HOOKS	FCIC	BIKE ONLY	REFER TO CONSTRUCTION DWGS		PLYWOOD/ HOOKS
OVERHEAD BIKE HOOKS	FCIC	ВОТН	REFER TO CONSTRUCTION DWGS		UNISTRUT/ HOOKS
NON-STANDARD					
LIGHT DUTY SKI MACHINE (ALT)	FOIO	SKI	REICHMANN PROFI-VARIO-B	208V	NON HARDGOODS
AUTOMATED SKI MACHINE	FOIO	SKI	WINTERSTEIGER SCOUT	220V	
SKI STORAGE RACKS	FOIO	SKI	MONTANA		INSTALLED IN STORES WITH RENTALS
BOOT DRYERS	FOIO	SKI	MONTANA		INSTALLED IN STORES WITH RENTALS
HOT BOX	FOIO	SKI	SUN VALLEY SKI TOOLS	220V	NO LONGER IN PRODUCTION



HATCHED AREA INDICATES EXTENT OF WM-2

ENLARGED BIKE ASSEMBLY PLAN

SCALE: 1/4" = 1'-0"

- BIKE ASSEMBLY COUNTER, FOIO

BIKE ASSEMBLY ROOM 150 - ELEVATIONS

SCALE: 1/4" = 1'-0"

3/3/2022 9:56:37 PM

ENLARGED BIKE AREA PLAN AND ELEVATIONS

A-704

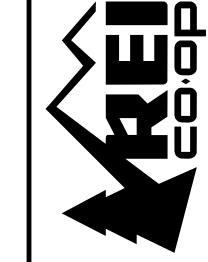
#### **POWER & SIGNAL GENERAL NOTES**

- 1. VERIFY EXACT LOCATIONS OF HVAC EQUIPMENT, CONDUIT STUB-UPS, AND POWER CONNECTIONS PRIOR TO ROUGH-IN. ALL NEW HVAC EQUIPMENT SHALL BE PROVIDED WITH A FACTORY INSTALLED AND WIRED DISCONNECT SWITCH
- 2. VERIFY EXACT LOCATION, MOUNTING HEIGHTS, AND CONDUIT ROUTING FOR ALL THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, AND CO2 SENSORS WITH TEMPERATURE CONTROLS CONTRACTOR PRIOR TO ROUGH-IN.
- 3. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL ELECTRICAL REQUIREMENTS. COORDINATE PROVISIONS FOR ALL CONTROL CONDUIT AND WIRING AS REQUIRED FOR INTERLOCKING OF FANS, MOTORS, ETC. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 4. ALL DEVICES INSTALLED ON HVAC EQUIPMENT SHALL BE MOUNTED ON A NON-REMOVABLE PANEL OF THE EQUIPMENT. COORDINATE LOCATION WITH THE MECHANICAL AND/OR PLUMBING CONTRACTOR PRIOR TO COMMENCING ROUGH-IN WORK.
- 5. ALL CONDUITS ON WALL OR COLUMNS SHALL RUN TO ROOF DECK.
- 6. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS OF POWER CONDUIT AT REPAIR COUNTER BEFORE BIDDING AND PROVIDING NEW CONDUIT AND WIRE. CONNECT TO EXISTING CIRCUITS. CONTRACTOR TO STUB-UP (1) 1" CONDUIT AND (1)2" CONDUIT(1" FOR POWER, 2" FOR PHONE/DATA) TO ACCESSIBLE CEILING SPACE OR ROOF
- 7. ALL 120 VOLT BRANCH CIRCUITS IN EXCESS OF 75 FEET SHALL HAVE CONDUCTOR SIZE INCREASED A MINIMUM OF ONE CONDUCTOR SIZE. INSTALLING CONTRACTOR SHALL DETERMINE ACTUAL CONDUCTOR SIZE TO BE INSTALLED TO ADHERE TO VOLTAGE DROP REQUIREMENTS.
- 8. REFER TO ARCHITECTURAL ELEVATIONS FOR DIMENSIONS OF OUTLET LOCATIONS. DO NOT SCALE OFF DRAWINGS.
- 9. ALL PHONE JACKS IN RETAIL SPACE SHALL BE MOUNTED SUCH THAT THEY ARE CENTERED BETWEEN THE DISPLAY PANELS AND NOT IN A SPACE THAT IS SMALLER THAN 12". ALL PHONES AT STRUCTURAL COLUMNS SHALL BE MOUNTED IN A SINGLE-GANG BACK-BOX.
- 10. ALL INTRUSION DEVICES AND CCTV DEVICES REQUIRE BACK-BOX AND 1/2" CONDUIT WITH PULL STRING, TAGGED WITH SOURCE AND DESTINATION BACK TO TDP CLOSET. AT WALL LOCATIONS, STUB CONDUIT INTO ACCESSIBLE CEILING SPACE OR TOP OF WALL. IN RETAIL CEILING AREA, BURGLAR ALARM CONTRACTOR TO RUN WIRING TIGHT TO STRUCTURE. NO CONDUIT NEEDED. VERIFY EXACT DEVICES AND LOCATIONS WITH BURGLAR ALARM CONTRACTOR. KEYPAD, INTERCOM, AND INTERCOM SHROUD ARE INSTALLED BY OWNER.
- 11. TELEPHONE AND DATA OUTLETS: PROVIDE BACKBOX AND CONDUIT WITH PULL CORD TAGGED WITH SOURCE AND DESTINATION, STUBBED UP TO ACCESSIBLE CEILING SPACE. CONDUIT IN WALLS OR ON COLUMNS SHALL BE 1" UNLESS OTHERWISE NOTED, CONDUIT IN SLAB SHALL BE 1" UNLESS OTHERWISE NOTED, REFER TO OWNER DIAGRAMS FOR LOCATIONS OF TERMINALS AND CONDUIT INSIDE OWNER SUPPLIED COUNTERS. CONDUITS AT PARTIAL HEIGHT WALLS SHALL BE ROUTED VIA THE NEAREST FULL HEIGHT WALL.
- 12. ALL CONDUIT STUBS FOR LOW-VOLTAGE CABLING SHALL HAVE PLASTIC BUSHINGS ON ENDS OF CONDUIT.
- 13. NEW RECEPTACLES AND TELE/DATA OUTLETS MOUNTED ON COLUMNS IN RETAIL AREA SHALL BE LOCATED ON THE SIDE OF COLUMNS THAT IS FACING AWAY FROM FRONT ENTRANCE.

## **POWER & SIGNAL KEY NOTES**

- (1) EC TO PROVIDE IN-SLAB CONDUIT RUN FOR EAS PEDESTALS. EC SHALL TRENCH FLOOR FOR CONDUIT RUN TO EAS PEDESTALS AND SHALL ROUTE CONDUIT FROM EAS PANEL TO EAS PEDESTAL LOCATIONS, AND STUB CONDUIT UP 6" AFF FOR PEDESTALS. EC SHALL PROVIDE 3/4" CONDUIT TO EAS PEDESTALS.
- $\langle \overline{2} \rangle$  LOCATION IS SHOWN FOR REFERENCE ONLY. EAS PANEL AND DUPLEX RECEPTACLE SHALL BE SURFACE MOUNTED NEAR MAIN ENTRANCE. FIELD COORDINATE FINAL LOCATION.
- $\langle \overline{3} \rangle$  Provide 120V power for door operator. Coordinate exact requirements with supplier.
- $\overline{4}
  angle$  provide pushbutton for handicap door access. Coordinate exact requirements with door shop DRAWINGS. VERIFY LOCATION OF DEVICES, MOUNTING AND REQUIREMENTS PRIOR TO CONSTRUCTION. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
- 5 VERIFY LOCATION WITH SECURITY VENDOR. REFER TO GENERAL NOTE 10 THIS SHEET.
- $\langle 6 \rangle$  BURGLAR KEYPAD AT +48"AFF TO HIGHEST OPERABLE PART. PROVIDE 1/2" CONDUIT FROM DECK TO 48" AT INSIDE
- $\langle 7 \rangle$  RECEPTACLES ARE SHOWN FOR REFERENCE ONLY. COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH
- $\langle 8 \rangle$  COORDINATE EXACT LOCATION OF RETAIL COUNTER CONDUIT STUB-UP WITH ARCHITECTURAL SHEETS.
- (9) EXISTING (1) 1" CONDUIT FOR POWER AND (1) 2" CONDUIT FOR TELE/DATA FROM STUB-UP LOCATION TO NEAREST EXTERIOR WALL. E.C. SHALL PROVIDE HOMERUN AND MAKE FINAL CONNECTION TO PANEL. E.C. SHALL PROVIDE JUNCTION BOX IN CASEWORK FOR POWER TO RECEPTACLES. COORDINATE LOCATION OF JUNCTION BOX AND CONNECTION TO RECEPTACLES WITH CASEWORK VENDOR.
- (10) PROVIDE 1/2" CONDUIT WITH CONTROL WIRING FROM THERMOSTAT/SENSORS AT +5'-0" AFF TO CORRESPONDING UNIT.
- PROVIDE CEILING-MOUNTED RECEPTACLE AT BOTTOM OF STRUCTURE FOR PUBLIC VIEW MONITOR. SEE A-141 FOR LOCATION AND MONITOR MOUNTING HEIGHT
- (12) PROVIDE JUNCTION BOX AND DEDICATED CIRCUIT FOR HAND DRYER. COORDINATE MOUNTING HEIGHT OF JUNCTION BOX WITH MANUFACTURER'S RECOMMENDATIONS.
- $\langle \overline{13} \rangle$  Provide (1) 4" conduit from TDP rack to IDF. Verify termination point and routing prior to Bid. add Pull BOXES. AT ALL 90 DEGREE TURNS. LAND CONDUIT AT IDF ABOVE PLYWOOD/ENCLOSURE.
- (14) PROVIDE (2)#12, (1)#12G, 3/4"C FROM AC-1 TO CONDENSATE PUMP, WHICH IS MOUNTED TO AC-1. COORDINATE EXACT
- CONNECTION REQUIREMENTS WITH MANUFACTURER.
- (15) PROVIDE CEILING-MOUNTED NEMA TYPE L14-20R 208V/1P RECEPTACLE FOR BOAT LIFT. VERIFY EXACT MOUNTING
- (16) EXHAUST FAN TO BE CIRCUITED TO LOCAL FITTING ROOM CIRCUIT. EXHAUST FAN SHALL BE CONTROLLED BY LOCAL OCCUPANCY SENSOR LOCATED ON THE SPACE IT SERVES. SEE SHEET F-200 FOR OCCUPANCY SENSOR LOCATION.
- 77> PROVIDE (1) 4" CONDUIT FROM JUNCTION BOX IN TDP ROOM TO JUNCTION BOX IN RPSU STORAGE AREA. ADD PULL BOXES AT ALL 90 DEGREE TURNS.
- (18) PROVIDE 24"x24"x8" PULL BOX FOR TDP CONDUIT.
- (1) PROVIDE (1) 1-1/2" CONDUIT FOR TELE/DATA RECEPTACLES. SEE GENERAL NOTE 11 FOR ADDITIONAL REQUIREMENTS.
- 20 EC TO PROVIDE FLUSH FLOOR MOUNTED FLOOR BOX RECEPTACLE HUBBELL #BA2529 FLOOR BOX, WITH #SA3925 ELECTRICAL PLATE FLOOR BOX. EC SHALL PROVIDE (1) 3/4" CONDUIT FOR POWER TO NEAREST COLUMN OR EXTERIOR WALL. ELECTRICAL CONTRACTOR SHALL PROVIDE HOMERUN AND MAKE FINAL CONNECTION TO PANEL.
- ⟨21⟩ EC SHALL PROVIDE (1) 3/4" CONDUIT FOR POWER TO NEAREST COLUMN OR EXTERIOR WALL. ELECTRICAL CONTRACTOR SHALL PROVIDE HOMERUN AND MAKE FINAL CONNECTION TO PANEL.
- (22) INSTALL TENANT FURNISHED BOAT/BIKE LIFT CONTROLS. COORDINATE LOCATION WITH OWNER'S REPRESENTATIVE. CONTROLS ARE SURFACE MOUNTED. NO CONDUIT REQUIRED.
- ROVIDE JUNCTION BOX RECESSED IN CEILING FOR TRAFFIC COUNTER. TRAFFIC COUNTER SHALL BE ORIENTED SUCH THAT THE LONGEST DIMENSION OF THE TRAFFIC COUNTER IS PARALLEL WITH THE DOOR. VERIFY EXACT MOUNTING LOCATION WITH ARCHITECT PRIOR TO INSTALLATION. PROVIDE A 1" CONDUIT WITH PULLSTRING.
- <24> MOUNT TIMER SWITCH IN RECESSED 2-GANG BOX AT 46" ON WALL ADJACENT TO ROPE CUTTER. DO NOT MOUNT ABOVE ROPE CUTTER.
- $\langle \overline{25} 
  angle$  PROVIDE JUNCTION BOX FOR DOOR COUNTER AND CAMERA SURFACE MOUNTED ADJACENT TO ENTRY DOOR. VERIFY EXACT MOUNTING LOCATION WITH ARCHITECT PRIOR TO INSTALLATION. PROVIDE A 3/4" CONDUIT WITH PULLSTRING.
- 26 PROVIDE CONDUIT AND PULL STRING TO ABOVE ACCESSIBLE CEILING FOR ELECTRONIC ARTICLE SURVEILLANCE (EAS) SYSTEM. CONDUIT TO STUB OUT TO WALL AT +54" AFF AT LOCATION SHOWN. COORDINATE WITH CHECKPOINT SECURITY DRAWINGS.
- 27> EAS PANEL. PROVIDED 12"X12"X4" ENCLOSURE WITH (2) JUNCTION BOXES MOUNTED IN SIDES OF BOX FOR EAS PEDESTAL POWER SUPPLIES. MOUNT ABOVE CEILING IN LOCATION ACCESSIBLE BY TENANT'S STEP-LADDER. COORDINATE REQUIREMENTS WITH REI CONSTRUCTION MANGER.
- PROVIDE CONDUIT AND WIRING FROM MOTORIZED DOOR TO J-BOX ON INTERIOR OF PREMISES. J-BOX TO BE MOUNTED A MINIMUM OF 16'-0"AFF. TENANT WILL PROVIDE HOME RUN AND FINAL CONNECTION TO PANEL. DOOR INSTALLATION INCLUDES DOOR OPERATOR CONTROLS. PROVIDE A MMTC 3BLM EXTERIOR THREE-BUTTON LOCKOUT SURFACE MOUNT CONTROL STATION. CONTROL STATION SHALL BE LOCATED ADJACENT TO DOOR. PROVIDE WIRING FROM CONTROL STATION TO MOTOR PER MANUFACTURER REQUIREMENTS.
- 29 PROVIDE DUPLEX FOR POWER TO SINK SENSOR. SEE PLUMBING DRAWINGS FOR MORE INFORMATION.
- $\langle \overline{30} \rangle$  RECEPTACLE SHALL BE INSTALLED 18" MAX ABOVE THE TOP OF THE WINDOW. REFER TO ARCHITECTURAL SHEETS FOR EXACT LOCATION.
- 31> PROVIDE 2" CONDUIT WITH PULL STRINGS STUBBED INTO SPACE. COORDINATE EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS.
- 32 PROVIDE ELECTRICAL CONNECTIONS FOR WASHER & DRYER. COORDINATE ELECTRICAL REQUIREMENTS WITH MANUFACTURER'S RECOMMENDATIONS. COORDINATE LOCATION WITH OWNER. PROVIDE (3)#8,(1)#10G,1"C TO
- ELECTRIC DRYER LOCATION.
- (34) PROVIDE (2) 50 AMP, 2-POLE NON-FUSED, TOGGLE DISCONNECT SWITCHES FOR INSTANTANEOUS WATER HEATER. VERIFY LOCATION OF DISCONNECTS WITH ARCHITECT. VERIFY ADDITIONAL REQUIREMENTS WITH PLUMBING CONTRACTOR. DISCONNECTS SHALL BE INTEGRALLY LOCKABLE AND SHALL BE CLEARLY AND PERMANENTLY LABELED

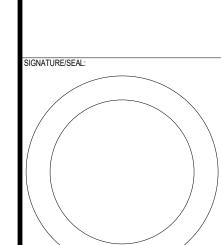
SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATIONS OF POWER AND SIGNAL DEVICES.



CHITECT INFORMATION:

NSULTANT INFORMATION:

ROJECT INFORMATION:



AWING ISSUANCE LOG: EV DATE DESCRIPTION 11/08/2021 BID SET 12/20/2021 BULLETIN 2 1/14/2022 BULLETIN 3 1/14/2022 ISSUED FOR CONSTRUCTION

4 2/16/2022 BULLETIN 4 5 3/01/2022 BULLETIN 5

1ST FLOOR PLAN - POWER &

E-100

3/1/2022 1:56:29 PM

NOTE: NOT ALL OF THE FOLLOWING WILL BE USED AT EVERY LOCATION.

- 1. ZONE 'a' EMPLOYEE AND CUSTOMER LIGHTING (NOVAR OUTPUT #1) = TYPE 'C2' FIXTURES SHALL TURN ON TO 50% DURING EMPLOYEE HOURS AND RAISE TO 100% DURING CUSTOMER HOURS. TYPE 'C2' FIXTURES SHALL DIM CONTINUOUSLY BASED ON PHOTOSENSOR READINGS. DIMMING SYSTEM TO BE PROVIDED WITH DEMAND RESPONSE CONTROL INPUT TO REDUCE TOTAL LIGHTING LOAD BY 15% WHEN SIGNAL IS RECEIVED.
- 2. ZONE 'a1' EMPLOYEE HOURS 1 (NOVAR OUTPUT #2) = CONTROLLED BY NOVAR TIME SCHEDULE WHEN EMPLOYEES ONLY ARE IN THE FACILITY. THIS OUTPUT SHALL CONTROL ALL LAMPS IN THE FIXTURE. DIMMING SYSTEM TO BE PROVIDED WITH DEMAND RESPONSE CONTROL INPUT TO REDUCE TOTAL LIGHTING LOAD BY 15% WHEN SIGNAL IS RECEIVED.
- 3. ZONE 'a2' EMPLOYEE HOURS 2 (RETAIL SPACE) (NOVAR OUTPUT #3) = CONTROLLED BY NOVAR TIME SCHEDULE WHEN EMPLOYEES ONLY ARE IN THE FACILITY. THIS OUTPUT SHALL CONTROL ALL LAMPS IN THE FIXTURE. ALL FIXTURES ON THIS FUNCTION SHALL BE CONTROLLED THROUGH A DIMMABLE OVERRIDE SWITCH LOCATED IN EMPLOYEE OFFICE.
- 4. ZONE 'b' EMPLOYEE AND CUSTOMER LIGHTING (NOVAR OUTPUT #1) = TYPE 'C2' FIXTURES SHALL TURN ON TO 50% DURING EMPLOYEE HOURS AND RAISE TO 100% DURING CUSTOMER HOURS. DIMMING SYSTEM TO BE PROVIDED WITH DEMAND RESPONSE CONTROL INPUT TO REDUCE TOTAL LIGHTING LOAD BY 15% WHEN SIGNAL IS RECEIVED.
- 5. ZONE 'c' SPARE.
- 6. ZONE 'd' CUSTOMER LIGHTING (NOVAR OUTPUT #5) = 100% OF ALL TRACK LIGHT FIXTURES (TYPES 'B2', 'H2', & 'W').
- 7. ZONE 'e' SIGNS AND EXTERIOR LIGHTS: (NOVAR OUTPUT #8) CONTROLLED BY 'NOVAR' TIME SCHEDULE AND OUTDOOR
- 8. ZONE 'f SHOW WINDOWS: (NOVAR OUTPUT #9) CONTROLLED BY 'NOVAR' TIME SCHEDULE
- 9. ZONE 's' SITE LIGHTING: (NOVAR OUTPUT #10) CONTROLLED BY NOVAR TIME SCHEDULE AND OUTDOOR PHOTOCELL.
- 10. EGRESS AND SECURITY LIGHTING = 'ON' 24-HOURS (NOT CONTROLLED BY 'NOVAR').
- 11. FIXTURES LABELED 'C2E' SHALL HAVE AN INTEGRAL BATTERY PACK, CIRCUITED TO THE REMOTELY OPERATED CIRCUIT BREAKER
- 12. FIXTURES LABELED 'NL' SHALL HAVE A CONTINUOUS HOT TO OPERATE 24 HOURS AND NOT ON NOVAR CONTROL.

## PANEL SCHEDULE GENERAL NOTES

- 1. OVERCURRENT DEVICE ENCLOSURE SHALL BE IDENTIFIED AS SERIES RATED AND LABELED IN ACCORDANCE WITH N.E.C. 110-22 AND DEVICES SHALL BE A.I.C. RATED PER MANUFACTURER.
- 2. SEE SHEET E-501 FOR WIRE SIZES OF ALL NEW CIRCUITS.

#### PANEL SCHEDULE KEY NOTES

- 1 ALL CIRCUIT BREAKERS ON NOVAR CONTROL SHALL BE TYPE PL BREAKER.
- (2) EMERGENCY LIGHTS FED BY THIS CIRCUIT SHALL HAVE BOTH A CONTROLLED AND UNCONTROLLED CIRCUIT ROUTED TO IT.
- 3 PROVIDE (6) SPARE CONTROLLABLE 'PL' BREAKERS IN PANELS 'L' AND 'L1'.
- PROVIDE GFCI RATED CIRCUIT BREAKER FOR EQUIPMENT INDICATED.

		Branch Panel: L  Location: Space Supply From: SEE S  Mounting: RECE	SINGLE LINE DIAGRAM			Volts: Phases: Wires:		Vye		A.I.C. Rating: 42 KAIC  Mains Rating: 200 A  MCB Rating: 200 A						
	СКТ	Circuit Description	(1) Novar Control	Trip	Poles		A	E	3	(	:	Poles	Trip	Novar Control	Circuit Description	СКТ
	1	EXIT SIGNS L.O.		20 A	1	40 VA	730 VA					1	20 A		SHUNT TRIP - SHIPPING/REC. LTG	2
2>-	3	SHUNT TRIP - RETAIL 110 EM LIGHTING		20 A	1			1346 VA	2269 VA			1	20 A	a1	SHIPPING/REC., STORAGE LTG	4
<u>-</u> /_	5	RETAIL - EMERGENCY LIGHTING	а	20 A	1					1460 VA	116 VA	1	20 A		SHUNT TRIP - BIKE ASSEMBLY LTG	6 2
	7	RETAIL 110 - LIGHTING	а	20 A	1	1672 VA	812 VA					1	20 A	a1	BIKE ASSEMBLY LTG	8
		RETAIL 110 - LIGHTING	а	20 A	1			2464 VA	146 VA			1	20 A		SHUNT TRIP - BATHROOM, EMP LTG	10 2
		RETAIL 110 - NIGHT LIGHTING		20 A	1					288 VA	542 VA	1	20 A		BATHROOM, EMPLOYEE, OFFICE LTG	IZ
3		SPARE		20 A	1	0 VA	552 VA					1	20 A		SHUNT TRIP - EXTERIOR LIGHTING	14 2
3		SPARE		20 A	1			0 VA	528 VA			1	20 A	е	EXTERIOR LIGHTING	16
3 3 3 3 3		SPARE		20 A	1					0 VA	10000	1	50 A		IWH-1 (CRKT 1)	18
3	19	SPARE		20 A	1	0 VA	10000					1	50 A		IWH-1 (CRKT 2)	20
3		SPARE		20 A	1			0 VA	0 VA			1	20 A		SPARE	22
3	23	SPARE		20 A	1					0 VA	0 VA	1	20 A		SPARE	24
	25	SPACE				0 VA	6000 VA					1	30 A		EWH-1 (6 KW)	26
	27	SPACE						0 VA	8000 VA							28
	29	SPACE								0 VA	8000 VA	3	40 A		DRYER UNIT (GFCI)	30 4
	31	SPACE				0 VA	8000 VA									32
	33	SPACE						0 VA	0 VA						SPACE	34
	35	SPACE								0 VA	0 VA				SPACE	36
	37	SPACE				0 VA	0 VA								SPACE	38
	39	SPACE						0 VA	0 VA						SPACE	40
	41	SPACE			-					0 VA	0 VA				SPACE	42
				To	tal Load:	2776	67 VA	1431	4 VA	2040	4 VA					
				Tot	tal Amps:	10	4 A	52	! A	77	Ά					
				Tot	tal Amps:			75	5 A							

	Branch Panel: R1												
	Location: Space 318					Volts:	120/208 V	Vye				A.I.C. Rating: 22 KAIC	
	Supply From: SEE SINGLE LIN	NE DIAGRAM				Phases:		•				Mains Rating: 100 A	
	Mounting: RECESSED					Wires:	4					MLO Rating: 100 A	
СКТ	Circuit Description	Trip	Poles		A		В	,	2	Poles	Trip	Circuit Description	СКТ
1	RETAIL COLUMN RECEPTACLES	20 A	1	900 VA	720 VA		<b>Б</b>	,		1	20 A	CASHWRAP RECEPTACLES (FUTURE)	2
3	RETAIL COLUMN RECEPTACLES	20 A	1	300 VA	120 VA	540 VA	720 VA			1	20 A	CASHWRAP RECEPTACLES (FOTORE)	4
5	EMPLOYEE ROOM - COMPUTER REC.	20 A	1			340 VA	120 VA	360 VA	720 VA	1	20 A	CASHWRAP RECEPTACLES	6
7	EMPLOYEE ROOM - ELEC WATER COOLER	20 A	1	180 VA	720 VA			000 171	720 771	1	20 A	CASHWRAP RECEPTACLES	8
9	EMPLOYEE ROOM - ABOVE COUNTER REC.	20 A	1	100 171	120 171	180 VA	360 VA			1	20 A	BACK OF CASHWRAP RECEPTACLE	10
11	EMPLOYEE ROOM - MICROWAVE	20 A	1			100 171	000 171	1500 VA	180 VA	1	20 A	OFFICE - COMPUTER REC.	12
13	EMPLOYEE ROOM - TOASTER	20 A	1	1500 VA	180 VA					1	20 A	OFFICE - COMPUTER REC.	14
15	EMPLOYEE ROOM - MICROWAVE	20 A	1			1500 VA	180 VA			1	20 A	OFFICE - COMPUTER REC.	16
17	EMPLOYEE ROOM - REFRIGERATOR	20 A	1					800 VA	180 VA	1	20 A	OFFICE - COMPUTER REC.	18
19	EMPLOYEE ROOM - TIMECLOCK	20 A	1	180 VA	180 VA					1	20 A	OFFICE - PRINTER REC.	20
21	EMPLOYEE ROOM - CONV. REC.	20 A	1			540 VA	360 VA			1	20 A	RPSU - CAGE REC.	22
23	TDP - ALARM CONTROL PANELS	20 A	1					540 VA	360 VA	1	20 A	RPSU - CAGE REC.	24
25	TDP - DEDICATED QUADRECEPTACLE	20 A	1	360 VA	360 VA					1	20 A	RPSU - CAGE REC.	26
27	TDP - DEDICATED DUPLEX RECEPTACLE	20 A	1			180 VA	180 VA			1	20 A	RPSU - ERGOTRON REC.	28
29	TDP - TWISTLOCK RECEPTACLE	30 A	1					500 VA	180 VA	1	20 A	RPSU STORAGE - IDF RACK	30
31	TDP - TWISTLOCK RECEPTACLE	30 A	1	500 VA	360 VA					1	20 A	RSPU, OFFICE - RECEPTACLES	32
33	TDP - TELEPHONE BACKBOARD RECEPTACLE	20 A	1			720 VA	42 VA			2	1E A	AC 1 (0 F MCA)	34
35	TDP - TELEPHONE BACKBOARD RECEPTACLE	20 A	1					720 VA	42 VA	2	15 A	AC-1 (0.5 MCA)	36
37	TDP - FACP RECEPTACLE	20 A	1	180 VA	1716 VA					0	20.4	CIL 4 (4C F MCA)	38
39	ROOFTOP CONVENIENCE REC.	20 A	1			540 VA	1716 VA			2	20 A	CU-1 (16.5 MCA)	40
41	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	42
		To	otal Load:	803	6 VA	775	8 VA	6082	2 VA				,
		То	tal Amps:	69	) A	6	7 A	51	Α				
		To	tal Amps:			6	1 A						

Rating: 600 A Rating: 600 A
Circuit Description CKT
2
ICA) 4
6
8
ICA) 10
12
14
ICA) 16
18
20
22_
24
26
28
30
N

		Branch Panel: L1  Location: Space Supply From: SEE SI Mounting: RECES	INGLE LINE [	DIAGRAM				Volts: Phases: Wires:		Vye				Main	C. Rating: 22 KAIC is Rating: 225 A B Rating: 225 A	
	СКТ	Circuit Description	1 Novar Control	Trip	Poles		<b>A</b>	E	3			Poles	Trip	1 Novar Control	Circuit Description	СКТ
	1	RETAIL 110 - CASHWRAP DISPLAY TRACK	d	20 A	1	302 VA	260 VA					1	20 A		SHUNT TRIP - HALLWAY LIGHTING	2
	3	RETAIL 110 - PERIMETER LIGHTING	d	20 A	1			1275 VA	862 VA			1	20 A	a1	FITTING RM LIGHTING & EF-4,5,6	4
	5	RETAIL 110 - PERIMETER LIGHTING	d	20 A	1					1250 VA	200 VA	1	20 A	a1	EF-3 (1/10HP)	6
	7	RETAIL 110 - TRACK LIGHTING	d	20 A	1	1150 VA	360 VA					1	20 A	a1	AUTOMATIC DOOR (a1)	8
	9	RETAIL 110 - TRACK LIGHTING	d	20 A	1			1400 VA	360 VA			1	20 A	a1	SHIP/REC 160 - LOADING DOCK LIGHTS	10
	11	RETAIL 110 - TRACK LIGHTING	d	20 A	1					1200 VA	930 VA	1	20 A	a1	SHIP/REC 160 - LOADING DOCK FANS	12
	13	RETAIL 110 - PENDANT LIGHTING	d	20 A	1	36 VA	180 VA					1	20 A	е	EXTERIOR SIGNAGE	14
	15	RETAIL 110 - FLOOR RECEPTACLES	d	20 A	1			360 VA	60 VA			1	20 A	е	EXTERIOR LIGHTING	16
	17	SHOWCASE WINDOWS		20 A	1					360 VA	200 VA	1	20 A		EF-1 (1/3 HP)	18
	19	SPARE		20 A	1	0 VA	696 VA					1	20 A		UH-1 (1/4 H.P.)	20
	21	SPARE		20 A	1			0 VA	1997 VA			2	25 A		EUH-1 (19.2 MCA)	22
$\geq$	23	SPARE		20 A	1					0 VA	1997 VA		25 A		EUTI-1 (19.2 MCA)	24
$\mathbb{L}$	25	SPARE		20 A	1	0 VA	1800 VA					11	20 A		CP-1 (45W)	26
Ł	27	SPARE		20 A	1			0 VA	1176 VA		(		20 A		EP-1 (1/2HP)	28
>L	29	SPARE		20 A	1					0 VA	0 VA		<u></u>		SPACE	30
	31	SPACE				0 VA	0 VA								SPACE	32
	33	SPACE						0 VA	0 VA						SPACE	34
L	35	SPACE								0 VA	0 VA				SPACE	36
L	37	SPACE				0 VA	0 VA								SPACE	38
	39	SPACE						0 VA	0 VA						SPACE	40
	41	SPACE								0 VA	0 VA				SPACE	42
				To	otal Load:	381	2 VA	5508	3 VA	442	7 VA					
				То	tal Amps:	32	2 A	47	Α	38	3 A					
				To	tal Amps:			38	Α			]				

	Location: Space 318 Supply From: SEE SINGLE LINE Mounting: RECESSED	E DIAGRAM	E DIAGRAM			Volts: Phases: Wires:		0/208 Wye			A.I.C. Rating: 22 KAIC  Mains Rating: 100 A  MLO Rating: 100 A				
СКТ	Circuit Description	Trip	Poles		Ą		В	(	<b>:</b>	Poles	Trip	Circuit Description	СКТ		
1	BIKE ASSEMBLY 150 - CONV. RECS.	20 A	1	900 VA	540 VA					1	20 A	SHIPPING/RECEIVING 160 - DESK RECS.	2		
3	BIKE ASSEMBLY 150 - COMPRESSOR	20 A	1			360 VA	540 VA			1	20 A	SHIPPING/RECIEVING 160 - DESK RECS.	4		
5	BIKE ASSEMBLY 150 - BENCH RECEPTACLE	20 A	1					360 VA	1664 VA	2	20 A	SHIPPING/RECIEVING 160 - BOAT LIFT	6		
7	BIKE ASSEMBLY 150 - GRINDER	20 A	1	180 VA	1664 VA					2	20 /	OTHER INO/NECIEVING 100 - BOAT EIL I	8		
9	BIKE ASSEMBLY 150 - BENCH RECEPTACLE	20 A	1			360 VA	180 VA			1	20 A	SHIPPING/RECEIVING 160 - MOTORIZED DOOR	10		
11	BIKE ASSEMBLY 150 - GRINDER	20 A	1					180 VA	900 VA	1	20 A	ALL GENDER 141 - HAND DRYER	12		
13	BIKE ASSEMBLY 150 - BENCH RECEPTACLE	20 A	1	360 VA	900 VA					1	20 A	ALL GENDER 141 - HAND DRYER	14		
15	BIKE ASSEMBLY 150 - GRINDER	20 A	1			180 VA	720 VA			1	20 A	ALL GENDER - ABV. COUNTER. RECS.	16		
17	BIKE ASSEMBLY 150 - BENCH RECEPTACLE	20 A	1					360 VA	360 VA	1	20 A	SHOWER 146 - ABV COUNTER REC.	18		
19	BIKE ASSEMBLY 150 - ERGOTRON	20 A	1	180 VA	900 VA					1	20 A	SHOWER 146 - HAND DRYER	20		
21	BIKE ASSEMBLY 150 - BIKE STAND DROP	20 A	1			180 VA	360 VA			1	20 A	HALLWAY 140 - EAS PANEL	22		
23	BIKE ASSEMBLY 150 - CASHWRAP RECEPTACLES	20 A	1					1080 VA	180 VA	1	20 A	HALLWAY 140 - EWC (GFCI)	24		
25	BIKE ASSEMBLY 150 - PARTS WASHER	20 A	1	180 VA	180 VA					1	20 A	HALLWAY 125 - CONV. REC.	26		
27	BIKE ASSEMBLY 150 - WAX JET	20 A	1			180 VA	900 VA			1	20 A	CONFERENCE 170 - RECS.	28		
29	BIKE ASSEMBLY 150 - SKI MACHINE	30 A	2					2500 VA	180 VA	1	20 A	UTILITY REC.	30		
31	BIRL ASSLIVIDET 130 - SRI IVIACITINE	30 A		2500 VA	180 VA					1	20 A	PUBLIC VIEWING MONITOR	32		
33	HALLWAY 120 - CONV. REC.	20 A	1			180 VA	180 VA			1	20 A	VESTIBULE EAS PANEL	34		
35	ACTION SPORTS - ROPE CUTTER & EF-2	20 A	1					260 VA	1200 VA				36		
37	STORAGE 164 - ERGOTRONS	20 A	1	360 VA	1200 VA					3	20 A	WASHER UNIT (GFCI)	38		
39	SPARE	20 A	1			0 VA	1200 VA						40		
41	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	42		
		To	otal Load:	1022	4 VA	552	0 VA	9224	4 VA						
		To	tal Amps:	90	) A	46	6 A	82	? A						
		То	tal Amps:			69	9 A								

	Branch Panel: LDP  Location: Space 318 Supply From: SEE SINGLE LINE I Mounting: RECESSED	DIAGRAM				Volts: Phases: Wires:		Nye				A.I.C. Rating: 22 KAIC Mains Rating: 400 A MCB Rating: 350 A	
СКТ	Circuit Description	Trip	Poles		A	E	3		C	Poles	Trip	Circuit Description	СКТ
1				8036 VA	3812 VA								2
3	PANEL 'R1'	100 A	3			7758 VA	5508 VA			3	200 A	PANEL 'L1'	4
5								6082 VA	4427 VA				6
7				10224	0 VA							SPACE	8
9	PANEL 'R2'	100 A	3			5520 VA	0 VA					SPACE	10
11								9224 VA	0 VA			SPACE	12
		То	tal Load:	2192	24 VA	1828	9 VA	1915	0 VA			•	
		Tot	al Amps:	18	4 A	15	2 A	16 <sup>-</sup>	1 A	]			
		Tot	al Amps:			16	5 A	•		1			

#**235** 

RCHITECT INFORMATION:

Legal Entity Building Name Street Address City, State Zip

X

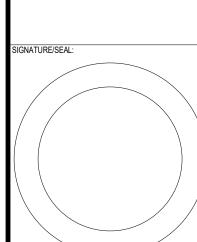
CONSULTANT INFORMATION:

engineering consultants
3120 139th Avenue Southeast, Suite 500 Bellevue, WA 98005
T. 847.713.1006 : www.trnec.com

PROJECT INFORMATION:

MOOD SPRINGS SOUTH GLEN AVENUE

REI-GL



11/08/2021 BID SET
2 12/20/2021 BULLETIN 2
1/14/2022 ISSUED FOR
CONSTRUCTION
4 2/16/2022 BULLETIN 4
5 3/01/2022 BULLETIN 5

PANEL SCHEDULES

E-500

3/1/2022 1:56:31 PM

© 2020 Legal Entity

## **EXISTING EQUIPMENT CONNECTION SCHEDULE**

TAG(1)	DESCRIPTION	$\langle 2 \rangle$	LOAD	3	WIRE/CONDUIT	$\langle 4 \rangle$	STARTER/DIS	CONNECT/OCD (5)	$VOLTAGE \left\langle 6 \right\rangle$	FEED (7)	LOCAL DISCONNE	:CT (8)	REMARKS 9
RTU 1X	ROOFTOP UNIT		12 MCA 15 MOC	- 1	3#12 AWG 1#12 AWG EQ. GND 3/4"C	).	☐ INTEGRAL☐ IN MCC☐	TO EQUIPMENT NEMA SIZE TYPE	480V 3P	MDP	<ul><li>☐ FUSED</li><li>☑ NON-FUSED</li><li>☐ THERMAL SWIT</li></ul>	A FUSE A SWITCH CH, 120V,1P	UNIT IS EXISTING TO BE RECIRCUITED
RTU 2X	ROOFTOP UNIT		19 MCA 25 MOC	- 1	3#10 AWG 1#10 AWG EQ. GND 3/4"C	).	☐ INTEGRAL☐ IN MCC☐	TO EQUIPMENT NEMA SIZE TYPE	480V 3P	MDP	<ul><li>☐ FUSED</li><li>☑ NON-FUSED</li><li>☐ THERMAL SWIT</li></ul>	A FUSE A SWITCH CH, 120V,1P	UNIT IS EXISTING TO BE RECIRCUITED
RTU 3X,4X	ROOFTOP UNIT		27 MCA 30 MOC	- 1	3#10 AWG 1#10 AWG EQ. GND 3/4"C	).	☐ INTEGRAL☐ IN MCC☐	TO EQUIPMENT NEMA SIZE TYPE	480V 3P	MDP	<ul><li>☐ FUSED</li><li>☑ NON-FUSED</li><li>☐ THERMAL SWIT</li></ul>	A FUSE A SWITCH CH, 120V,1P	UNIT IS EXISTING TO BE RECIRCUITED
RTU 6X	ROOFTOP UNIT		27 MCA 30 MOC	- 1	3#10 AWG 1#10 AWG EQ. GND 3/4"C	).	☐ INTEGRAL☐ IN MCC☐	TO EQUIPMENT NEMA SIZE TYPE	480V 3P	MDP	<ul><li>☐ FUSED</li><li>☑ NON-FUSED</li><li>☐ THERMAL SWIT</li></ul>	A FUSE A SWITCH CH, 120V,1P	UNIT IS EXISTING TO BE RECIRCUITED
RTU 5X,7X	ROOFTOP UNIT		22 MCA 25 MOC	- 1	3#10 AWG 1#10 AWG EQ. GND 3/4"C	).	☐ INTEGRAL☐ IN MCC☐	TO EQUIPMENT NEMA SIZE TYPE	480V 3P	MDP	<ul><li>☐ FUSED</li><li>☑ NON-FUSED</li><li>☐ THERMAL SWIT</li></ul>	A FUSE A SWITCH CH, 120V,1P	UNIT IS EXISTING TO BE RECIRCUITED

# NEW EQUIPMENT CONNECTION SCHEDULE

$TAG\langle 1 \rangle$	DESCRIPTION $\langle 2 \rangle$	LOAD (3)	WIRE/CONDUIT (	4 STARTER	DISCONNECT/OCD (5)	VOLTAGE 6	FEED (7)	LOCAL DISCONNECT (8)	REMARKS (9)
EF 1	EXHAUST FAN	1/3 H.P.	2#12 AWG 1#12 AWG EQ. GND. 3/4"C	☐ INTEGF☐ IN MCC	RAL TO EQUIPMENT  NEMA SIZE  TYPE	120V 1P	L1	☐ FUSED A FUSE ☐ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY MC, INSTALLED BY EC
EF 2	EXHAUST FAN	80W	2#12 AWG 1#12 AWG EQ. GND. 3/4"C	☐ INTEGF☐ IN MCC	RAL TO EQUIPMENT  NEMA SIZE  TYPE	120V 1P	L1	☐ FUSED A FUSE ☐ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY MC, INSTALLED BY EC
EF 3	EXHAUST FAN	1/10 H.P.	2#12 AWG 1#12 AWG EQ. GND. 3/4"C	☐ INTEGF☐ IN MCC	RAL TO EQUIPMENT  NEMA SIZE  TYPE	120V 1P	L1	☐ FUSED A FUSE ☐ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY MC, INSTALLED BY EC
EF 4,5	EXHAUST FAN	1/10 H.P.	2#12 AWG 1#12 AWG EQ. GND. 3/4"C	☐ INTEGF☐ IN MCC	RAL TO EQUIPMENT  NEMA SIZE  TYPE	120V 1P	L1	1	EC TO PROVIDE DISCONNECTONTROLLED THROUGH OCCUPANCY SENSOR
EF 6	EXHAUST FAN	1/10 H.P.	2#12 AWG 1#12 AWG EQ. GND. 3/4"C	☐ INTEGF☐ IN MCC	RAL TO EQUIPMENT  NEMA SIZE  TYPE	120V 1P	L1		EC TO PROVIDE DISCONNEC' CONTROLLED THROUGH OCCUPANCY SENSOR
AC 1	INDOOR AIR CONDITIONING UNIT	0.5 MCA 15 MOCP	2#12 AWG 1#12 AWG EQ. GND. 3/4"C	☐ INTEGF☐ IN MCC	RAL TO EQUIPMENT NEMA SIZE TYPE	208V 1P	L1	☐ FUSED A FUSE ☐ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY MC, INSTALLED BY EC
CU 1	OUTDOOR CONDENSING UNIT	16.5 MCA 20 MOCP	2#12 AWG 1#12 AWG EQ. GND. 3/4"C	☐ INTEGR	RAL TO EQUIPMENT  NEMA SIZE  TYPE	208V 1P	L1	☐ FUSED A FUSE ☐ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY MC, INSTALLED BY EC
EUH 1	ELECTRIC UNIT HEATER	19.2 MCA	2#10 AWG 1#10 AWG EQ. GND. 3/4"C	☐ IN MCC	RAL TO EQUIPMENT NEMA SIZE TYPE	208V 1P	L1	☐ FUSED A FUSE ☐ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT FURNISHED WITH UNIT
UH 1	UNIT HEATER	1/4 H.P.	2#12 AWG 1#12 AWG EQ. GND. 3/4"C	☐ INTEGF☐ IN MCC	RAL TO EQUIPMENT NEMA SIZE TYPE	120V 1P	L1	☐ FUSED A FUSE ☐ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	-
			I						
(IWH)	INSTANTANEOUS WATER HEATER	20 KW (2) CCT'S REQ'D	3#6 AWG 1#10 AWG EQ. GND. 1"C PER CIRCUIT	☐ INTEGR	RAL TO EQUIPMENT  NEMA SIZE  TYPE	277V 1P	L	☐ FUSED A FUSE ☐ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC
EWH 1	ELECTRIC WATER HEATER	6 KW	3#10 AWG 1#10 AWG EQ. GND. 3/4"C PER CIRCUIT	☐ INTEGR	RAL TO EQUIPMENT NEMA SIZE TYPE	277V 1P	L	☐ FUSED A FUSE ☐ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC
CP 1	CIRCULATION PUMP	45 W	2#12 AWG 1#12 AWG EQ. GND. 3/4"C	☐ INTEGF☐ IN MCC	RAL TO EQUIPMENT  NEMA SIZE  TYPE	120V 1P	L1	☐ FUSED A FUSE ☐ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC
EP 1	CIRCULATION PUMP	1/2 H.P.	2#12 AWG 1#12 AWG EQ. GND. 3/4"C	☐ INTEGF☐ IN MCC	RAL TO EQUIPMENT	120V 1P	L1	☐ FUSED A FUSE  ☐ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC

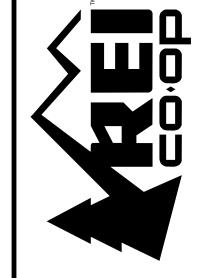
NOTE: PROVIDE SEPARATE GROUNDING CONDUCTOR SIZED PER NEC 250.122 INSTALLED FOR ALL HVAC UNITS.

#### **EQUIPMENT CONNECTION SCHEDULE KEY NOTES**

- 1 VERIFY FINAL LOCATION OF ALL EQUIPMENT WITH EQUIPMENT INSTALLER BEFORE INSTALLING FEEDERS.
- 2 SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR MORE INFORMATION.
- ③ SIZE STARTER/FEEDER DISCONNECT PER FINAL EQUIPMENT REQUIREMENTS.
- 4 PROVIDE FEEDERS AS INDICATED, VERIFY WITH EQUIPMENT REQUIREMENTS.
- PROVIDE OVERLOAD PROTECTION (FUSES OR MOTOR CIRCUIT PROTECTOR) PER SPECIFICATIONS, ACTUAL FIELD MEASURED FULL LOAD CURRENT, AND EQUIPMENT MANUFACTURER'S REQUIREMENTS.
- 6 VERIFY FINAL VOLTAGE AND PHASE REQUIREMENTS OF ALL EQUIPMENT WITH INSTALLER BEFORE INSTALLING
- $\langle \overline{7} \rangle$  coordinate short circuit ocd rating with final equipment requirements.
- $\overline{(8)}$  EC TO PROVIDE LOCAL DISCONNECT WITHIN 5'-0" OF EQUIPMENT.
- 9 NON-STANDARD ITEMS, TIMERS, METERS, INTERLOCKS, ETC.

## **GENERAL NOTES**

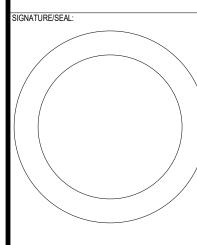
- 1. PROVIDE POWER CONNECTIONS TO ALL ARCHITECTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION AND OWNER FURNISHED EQUIPMENT. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR LOCATIONS AND POWER REQUIREMENTS. VERIFY ALL TECHNICAL DATA WITH FINAL SHOP DRAWINGS.
- 2. OVER CURRENT PROTECTION SIZES LISTED ARE FROM MANUFACTURER'S AND STANDARD MOTOR DATA, FURNISH FUSES BASED ON FUSE MANUFACTURER'S STANDARDS, ACTUAL FIELD MEASURED FULL LOAD CURRENT, AND EQUIPMENT MANUFACTURER'S REQUIREMENTS.
- 3. FLEXIBLE CONNECTIONS TO MOTORS SHALL BE IN FLEXIBLE CONDUIT. PROVIDE COPPER EQUIPMENT GROUND FROM DISCONNECT TO MOTOR CONNECTION.



RCHITECT INFORMATION:

ONSULTANT INFORMATION:





DRAWING ISSUANCE LOG:

REV DATE DESCRIPTION

11/08/2021 BID SET 2 12/20/2021 BULLETIN 2 1/14/2022 ISSUED FOR CONSTRUCTION 5 3/01/2022 BULLETIN 5

EQUIPMENT SCHEDULES

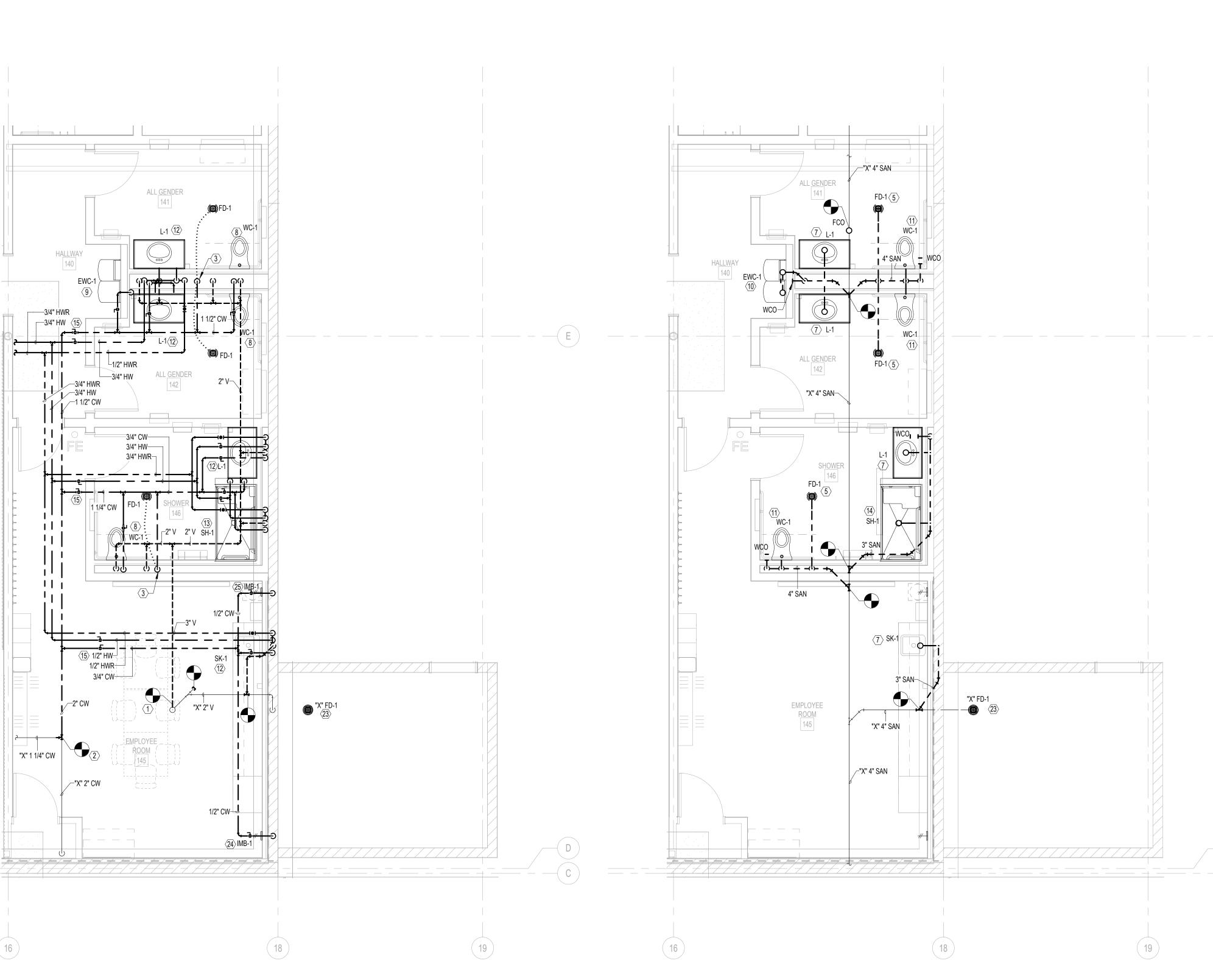
E-501

3/1/2022 1:56:32 PM

(7)

3/01/2022 BULLETIN 5

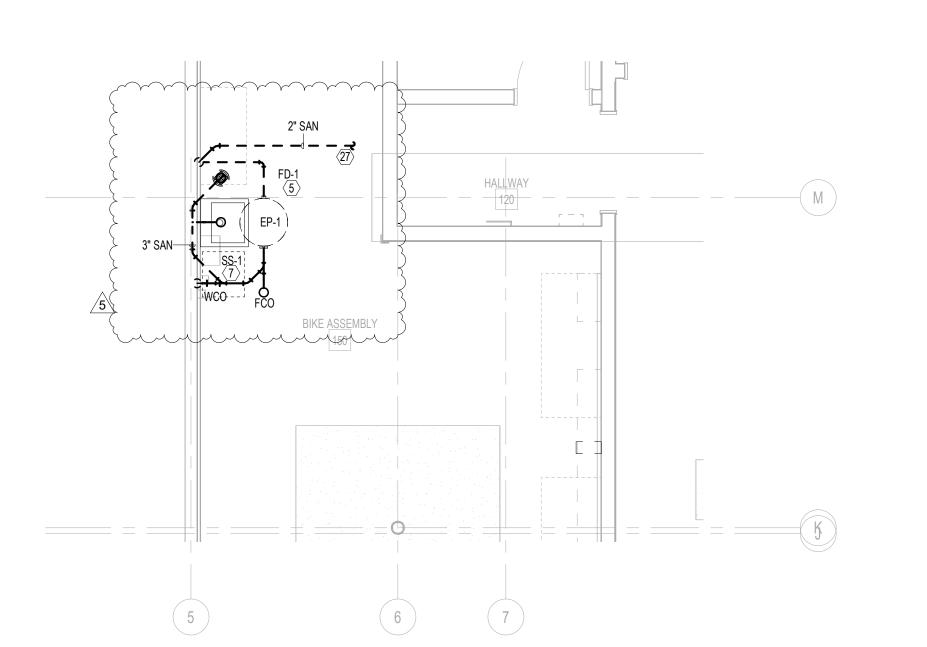
P-101



ENLARGED PLUMBING PLAN - DOMESTIC 2 WATER AND VENT P-101 SCALE: 1/4" = 1'-0"

PLUMBING \

ENLARGED PLUMBING PLAN - SANITARY P-101 | SCALE: 1/4" = 1'-0"



PLUMBING

ENLARGED BIKE ASSEMBLY PLUMBING

4 PLAN - SANITARY

3/1/2022 3:19:27 PM

P-101 NO SCALE

COMPRESSOR -

CABINET  $\langle 16 \rangle \langle 21 \rangle$ 

FITTING ROOM

HOSE REEL

HOSE REEL-

PLUMBING

BIKE ASSEMBLY

ENLARGED BIKE ASSEMBLY PLUMBING

PLAN - DOMESTIC WATER AND VENT

© 2020 Legal Entity

ANY DISCREPANCIES BEFORE STARTING WORK.

INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT

2. COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE. PROVIDE PIPE RISES, DROPS, AND OFFSETS, AS REQUIRED FOR FIELD INSTALLATION AND TRADE COORDINATION. NOTIFY ARCHITECT OF

DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE PIPING, CONNECTIONS, FITTINGS, VALVES, OFFSETS, ETCETERA AND ALL MATERIALS NECESSARY FOR A COMPLETE SYSTEM.

4. ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE GOVERNING CITY AND THE AUTHORITY HAVING JURISDICTION. PURCHASE ALL PERMITS ASSOCIATED WITH THE WORK. OBTAIN ALL INSPECTIONS REQUIRED BY CODE.

BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET.

5. PROVIDE WATER HAMMER ARRESTORS THROUGHOUT WATER SYSTEMS AS REQUIRED. REFER TO DETAIL 5/2-200 6. PROVIDE BACKFLOW PREVENTION DEVICES IN WATER LINES FEEDING PLUMBING FIXTURES AND/OR EQUIPMENT, AS SHOWN ON PLANS AND ELSEWHERE AS REQUIRED BY AUTHORITY HAVING JURISDICTION. USE DEVICES OF

APPROVED MANUFACTURER AND TYPE IN ACCORDANCE WITH REQUIREMENTS OF THE AUTHORITY HAVING

7. CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. IF PRESSURE AT BUILDING ENTRY PRIOR TO ALL LOCALLY REQUIRED DEVICES IS LESS THAN 60 PSIG STATIC, CONTACT OWNER'S REPRESENTATIVE. IF PRESSURE EXCEEDS 80 PSIG, PROVIDE PRESSURE REDUCING VALVE.

8. SUSPEND HORIZONTAL SERVICE PIPING FROM UNDERSIDE OF ROOF OR FLOOR STRUCTURE UNLESS OTHERWISE INDICATED. INSTALL PIPING AS HIGH AS POSSIBLE. EXTEND PIPING DOWN IN WALLS, PARTITIONS, AND CHASES TO SERVE FIXTURES AND EQUIPMENT.

9. VERIFY SERVICE CONNECTION POINTS, SIZES, ELEVATIONS, AND METERING LOCATIONS FOR PROJECT WITH LOCAL UTILITY COMPANIES AND/OR CIVIL ENGINEER AS APPLICABLE.

10. USE OF COMBUSTIBLE MATERIALS IS NOT ALLOWED IN RETURN AIR PLENUMS. MATERIALS USED IN THE PLENUM SHALL HAVE FLAME SPREAD RATING NOT TO EXCEED 25, AND SMOKE DEVELOPED RATING NOT TO EXCEED 500 WHEN TESTED IN ACCORDANCE WITH ASTM E84.

### **PLUMBING KEY NOTES**

JURISDICTION.

PLUMBING GENERAL NOTES

(1) CONNECT TO EXISTING VENT THRU ROOF PROVIDED BY LL IN THIS VICI<mark>NITY PER DETAIL 5/2-200. V</mark>ERIFY ALL VENTS ARE A MINIMUM OF 10'-0" FROM ANY FRESH AIR INTAKES.

(2) EXTEND 2" DOMESTIC PIPING TO CONNECT TO EXISTING LANDLORD PROVIDED SERVICE, BACKFLOW PREVENTER, AND WATER METER. VERIFY MAIN SHUT-OFF VALVE LOCATION AND PROVIDE ALUMINUM SIGN THAT READS "DOMESTIC WATER SHUTOFF VALVE"

PROVIDE TRAP PRIMER IN THIS VICINITY PER DETAIL /P-200

4 PROVIDE INSTANTANEOUS WATER HEATER IN THIS VICINITY PER DETAIL 2/2-200

 $\overline{(5)}$  Install floor drain and connect to underground sanitary line in this vicinity. Field verify exact LOCATION AND MAKE NECESSARY CONNECTION.

6 PROVIDE 3/4" COLD WATER AND HOT WATER SUPPLY WITH STOP TO SINK. EXTEND 2" VENT UP TO ABOVE CEILING. SEE SCHEDULE FOR MORE INFORMATION.

(7) 1 1/2" SANITARY CONNECTION TO SERVICE SINK/SINK/LAVATORY WITH P-TRAP IN WALL. 2" SANITARY DOWN TO BELOW FLOOR AND 2" VENT UP TO ABOVE CEILING.

(8) PROVIDE 1-1/4" COLD WATER SUPPLY WITH STOP TO WATER CLOSET.

9 PROVIDE 1/2" COLD WATER SUPPLY WITH STOP TO ELECTRIC WATER COOLER.

10 1-1/2" SANITARY CONNECTION TO ELECTRIC WATER COOLER WITH P-TRAP IN WALL. 2" SANITARY DOWN TO BELOW FLOOR AND 2" VENT UP TO ABOVE CEILING.

4" UNDERGROUND SANITARY CONNECTION TO WALL MOUNTED WATER CLOSET. CONNECT TO 4" UNDERGROUND SANITARY BELOW FLOOR WITH 2" VENT UP TO ABOVE CEILING.

PROVIDE 1/2" COLD AND HOT WATER SUPPLIES WITH STOPS TO LAVATORY/ SINK. EXTEND 2" VENT UP TO ABOVE CEILING. PROVIDE MIXING VALVE (TMV-1) ON ALL LAVATORIES/SINKS. SEE SCHEDULE FOR MORE INFORMATION.

(13) PROVIDE 1/2" COLD WATER AND HOT WATER SUPPLY WITH STOPS TO SHOWER. EXTEND 2" VENT UP TO ABOVE

1-1/2" SANITARY CONNECTION TO SHOWER WITH P-TRAP. 2" SANITARY DOWN TO BELOW FLOOR AND 2" VENT UP TO

(15) LOCATE SHUTOFF VALVE BETWEEN 8'-0" AND 11'-0" AFF. IF ABOVE INACCESSIBLE CEILING, PROVIDE WITH ACCESS PANEL. IF ABOVE CEILING, PROVIDE WITH LABEL TO READ "LOCATION OF ZONE SHUTOFF VALVE"

6 CONTRACTOR TO INSTALL COMPRESSOR AND PROVIDE A QUICK CONNECT CONNECTION TO THE COMPRESSOR AND PIPING. CONTRACTOR TO MOUNT COMPRESSOR ON WALL. MAKE NECESSARY ADJUSTMENTS AND ROUTING OF CA PIPING TO CONNECT TO AIR COMPRESSOR.

(17) 3/4" SUPPLY RISER ON FM MANIFOLD TO 1/4" MALE PIPE THREAD TERMINATION AT 48" AFF. MAKE NECESSARY ADJUSTMENTS TO ROUTING OF CA PIPING TO AIR COMPRESSOR.

(18) 3/4" COMPRESSED AIR LINE AT 13'-4" AFF. AIRLINE TO BE COPPER AND SURFACE MOUNTED WITH NO EXCEPTIONS.

49 ALL COMPRESSED AIR LINES TO BE INSTALLED TIGHT TO WALL, NOT ON OVERHEAD UNISTRUT. PROVIDE REELCRAFT HOSE REEL EQUAL TO GRAINGER #263D60 (REELCRAFT #4420-OLP). USE FLEXIBLE AIR HOSE TO CONNECT TO HOSE REEL FROM CA PIPE. (FCIC).

(20) 3/4" CA CAPPED END WITH MALE PIPE THREAD.

21) PROVIDE A 90 DEG ELBOW, 1' HOSE, BALL VALVE WITH NPT THREADING, AND A 10'-0" LONG VINYL HOSE FOR

DRAINAGE FROM THE COMPRESSOR. (22) AIR LINE END WITH FEMALE 1/4" NPT FITTING PER STANDARD.

23 EXISTING FLOOR DRAIN AND ALL ASSOCIATED PIPING TO BE REMAIN.

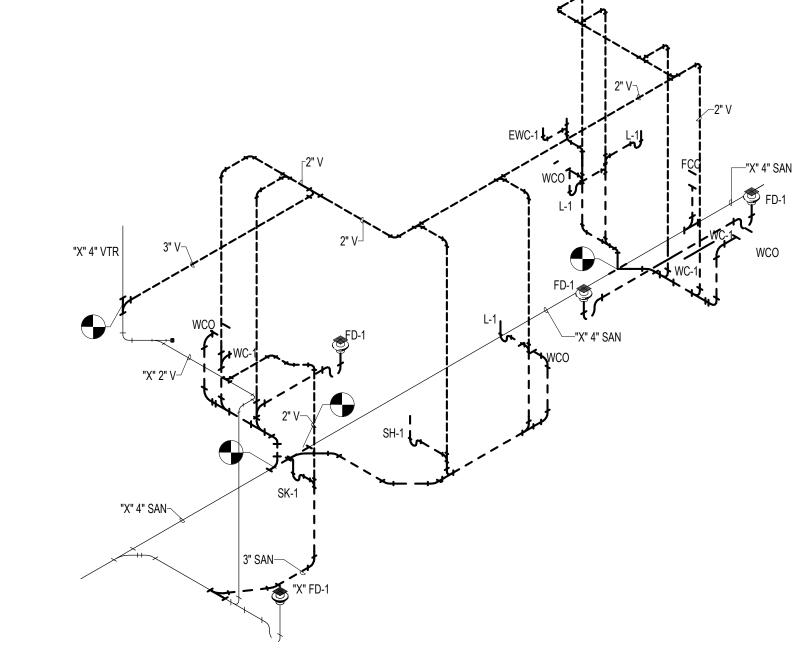
24) INSTALL IMB-1 PER MANUFACTURER'S RECOMMENDATION. CONNECT AND CAP 1/2" CW PIPING FOR FUTURE CONNECTION TO REFRIGERATOR TO SUPPLY INTEGRAL ICE MAKER, PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE BACKFLOW PREVENTER AS REQUIRED BY CODE.

(25) INSTALL IMB-1 PER MANUFACTURER'S RECOMMENDATION. CONNECT AND CAP 1/2" CW PIPING FOR FUTURE CONNECTION TO OWNER-PROVIDED WATER COOLER. COORDINATE SIZE AND LOCATION WITH OWNER. PROVIDE BACKFLOW PREVENTER AS REQUIRED BY CODE.

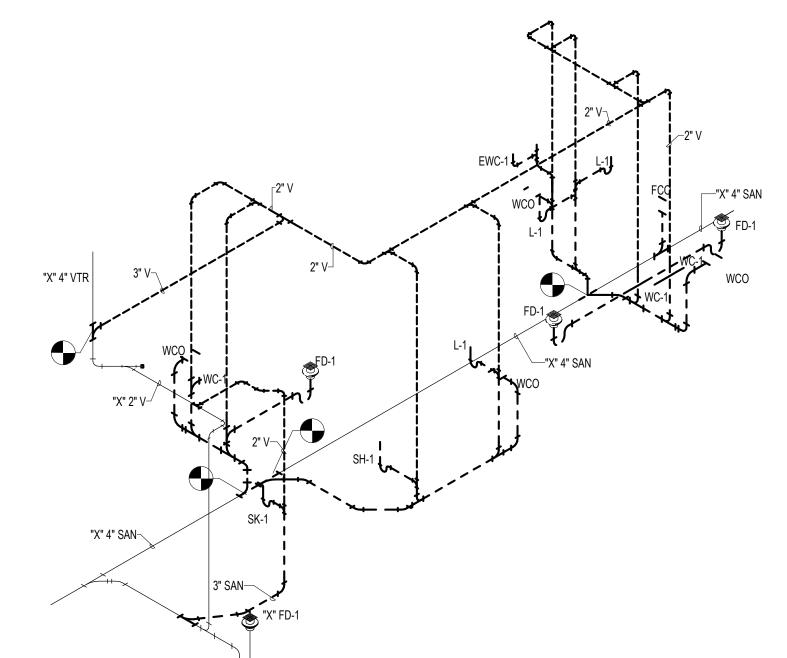
(26) LOCATE SHUTOFF VALVE IN WALL AT 5'-0" AFF. PROVIDE WITH WALL ACCESS PANEL AND LABEL TO READ "LOCATION OF ZONE SHUTOFF VALVE"

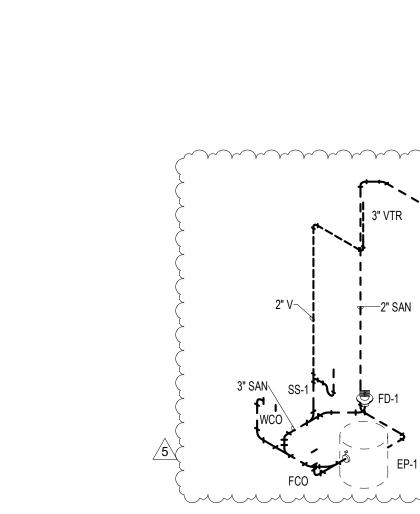
 $\langle \overline{27} \rangle$  2" San From EP-1 up furred out wall to connect into nearest existing sanitary line in Ceiling. 

**ENLARGED PLANS** 

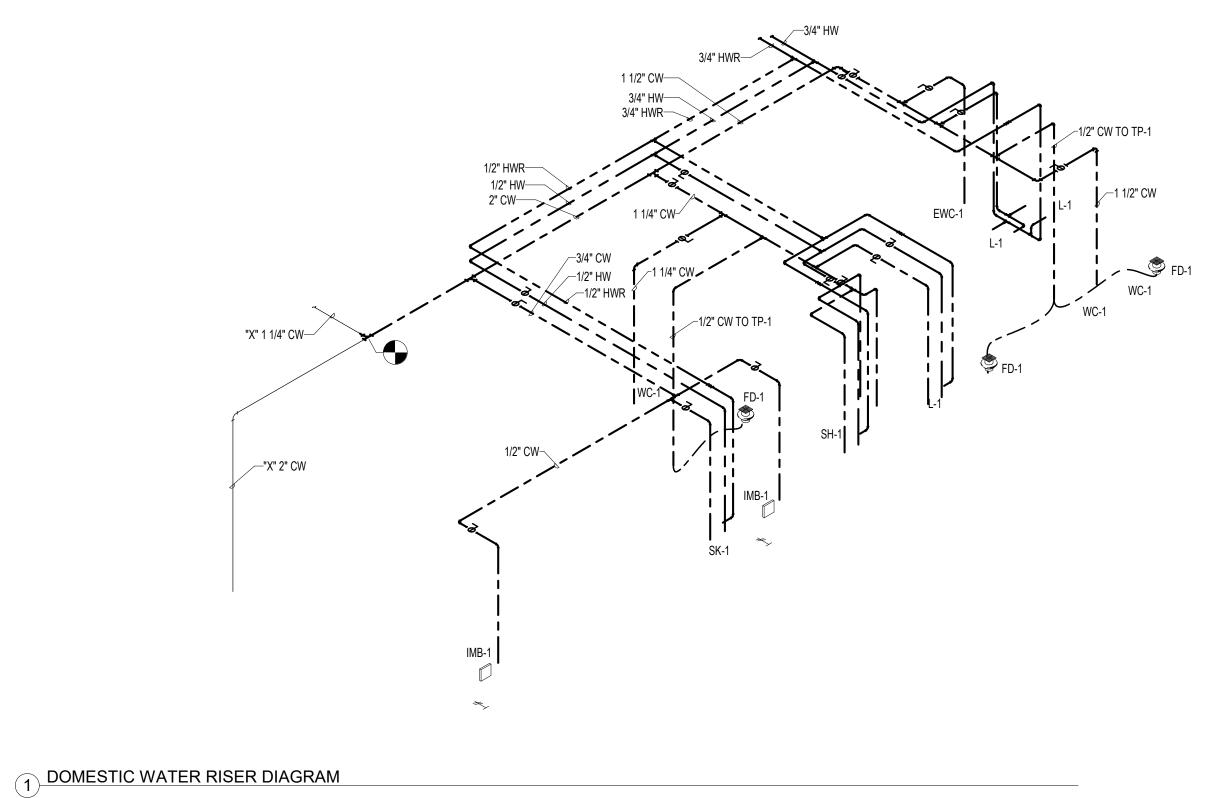


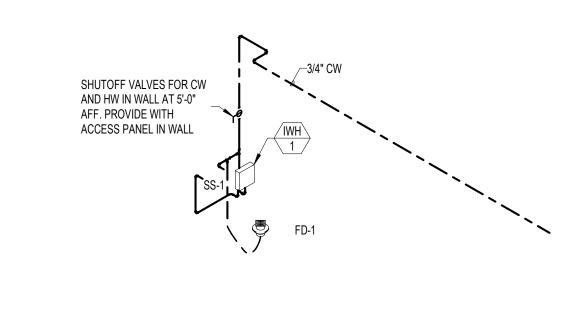
3 SANITARY & VENT RISER DIAGRAM

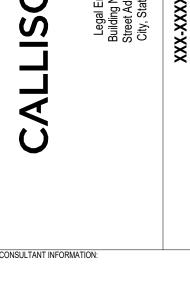




PLUMBING RISER - BIKE ASSEMBLY - DOMESTIC WATER SUPPLY







PROJECT INFORMATION:

SPRINGS

REI-GLENWOOD

SIGNATURE/SEAL:

DRAWING ISSUANCE LOG:

REV DATE DESCRIPTION

11/08/2021 BID SET

1/14/2022 ISSUED FOR CONSTRUCTION

5 3/01/2022 BULLETIN 5



RISER DIAGRAMS -PLUMBING

ON HORIZONTAL BRANCH LINE LESS

MULTIPLE FIXTURES

COLD HOT

10

5 -

1.5 1.5

2 2

2 3

0.5

FIXTURE UNIT TABULATION

FIXTURE

VALVE WATER CLOSET

URINAL

LAVATORY

SHOWER

PC TO PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING

CONSTRUCTION, HAVING PDI #WH-201, ASSE #1010 OR ANSI #A112.26.1M CERTIFICATION.

SIZE AND INSTALL PER PDI #WH-201 STANDARD OR MANUFACTURER'S INSTRUCTION. THE

TABLES ABOVE ARE BASED ON THE SIOUX CHIEF PRODUCT LINE. IF PRESSURE IS IN

EXCESS OF 65 PSIG THEN UPSIZE THE ARRESTER BY ONE (EXAMPLE: AN 'A' ARRESTER

PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND 0-RING

4 WATER HAMMER ARRESTERS

SINK / SHOP SINK

DRINKING FOUNTAIN

ON BRANCH LINE GREATER THAN 20 FEET LONG, PLACE ANOTHER

ARRESTER IN THE MIDDLE, EACH IS

-ARRESTER WITHIN SIZED FOR HALF THE FIXTURE UNITS

THAN 20 FEET LONG, PLACE ONE WITHIN

SIX FEET OF THE LAST FIXTURE SERVED—

SYMBOLS LEGEND NOTES:
REFER TO SPECIFICATIONS AND PLAN NOTES FOR DETAILED DESCRIPTION OF ALL DEVICES SHOWN IN THIS SCHEDULE, PROVIDED BY THIS CONTRACTOR.

—HOT OR COLD

SIX FEET OF

SINGLE FIXTURE

PDI FIXTURE

SIZE UNIT LOAD

AA 1-3

A 4-11

B 12-32

C 33-60

D 61-113

E 114-154

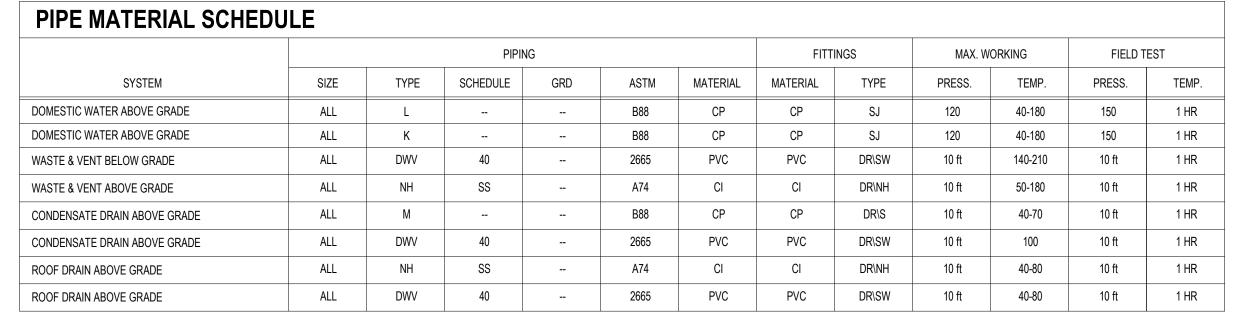
P-200 NO SCALE

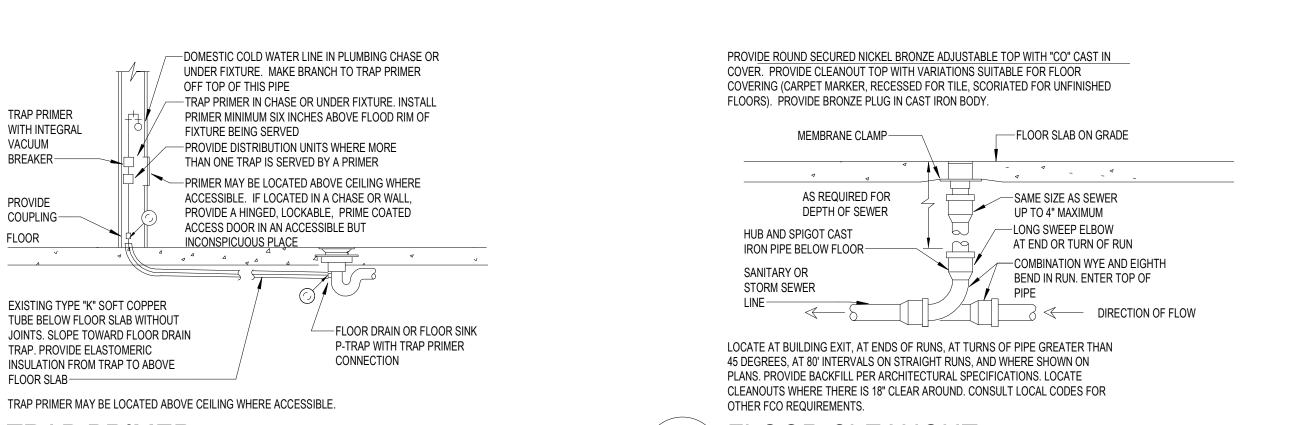
WOULD BECOME A 'B' ARRESTER.)

FIXTURE SERVED

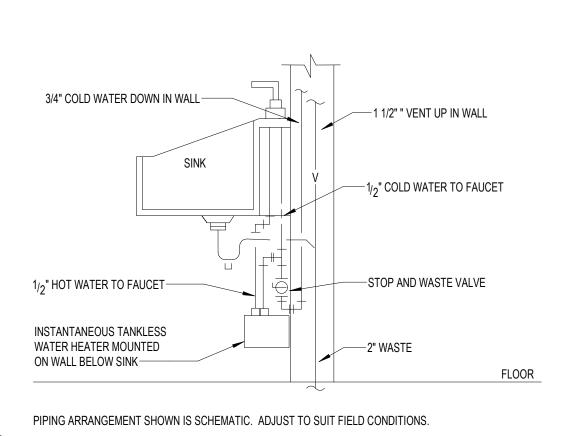
WATER SUPPLY

					PLUMBING FIXTURE SCHEDULE
TAG	QTY	FIXTURE	MANUFACTURER	MODEL	NOTES
PROVIDE SPE	ECIFIED FIXTU	JRES IN THIS PORTION OF THE SCHEDULE.	NO SUBSTITUTIONS ALLOWED.		
WC-1	3	WATER CLOSET	KOHLER	#K-84325-0	WATER CLOSET (HANDICAP, WALL HUNG): KOHLER #K-84325-0, WHITE VITREOUS CHINA, ELC <mark>NGAT</mark> ED SIPHON JET BOWL AND 1 1/2" TOP SPUD. SLOAN #WES-111-YO, 1.6/1.1 GPF DUAL FLUSH VALVE. BEMIS #1955CT WHITE, OPEN FRONT SEAT LESS COVER. PROVIDE JR SMITH CARRIER AND FITTINGS AS REQUIRED FOR INSTALLATION WITH RI PER ARCHITECT. FLUSHING SHALL BE FROM THE WIDE SIDE OF THE TOILET STALL.
L-1	3	LAVATORY	SLOAN	SF-2100 SERIES	LAVATORY (HANDICAP, COUNTERTOP): LAVATORY TO BE INTEGRAL TO COUNTERTOPS AND PROVIDED AND INSTALLED BY GENERAL CONTRACTOR. FAUCET TO BE SLOAN SF-2100 SERIES, ADA COMPLIANT, SENSOR ACTIVATED, CHROME PLATED BRASS, PEDESTAL FAUCET, 0.5 GPM SPRAY HEAD. PROVIDE WITH 4" TRIM PLATE FOR 4" CENTERSET SINK, MIX-60 BELOW DECK MECHANICAL MIXING VALVE, AND SFP-6 110 VAC/6 VDC PLUG-IN ADAPTER. PROVIDE GRID STRAINER DRAIN WITH TAILPIECE, CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT, WASTE ARM TO WALL WITH ESCUTCHEON AND 1/4 TURN ANGLE BALL STOPS WITH METAL HANDLE. INSULATE WATER AND WASTE PIPING UNDER LAVATORY WITH TRUEBRO "LAV GUARD2" #102E-Z. RI PER ARCHITECT.
SK-1	1	COUNTER SINK	ELKAY	LRAD1720-1	COUNTER SINK: ELKAY #LRAD1720-1, 20"x17"x5 1/2" SINGLE COMPARTMENT, SELF-RIMMING, 18 GAUGE STAINLESS STEEL COUNTERTOP SINK WITH FAUCET LEDGE AND 1 HOLE CENTERED PUNCHED. KOHLER #K-15171-F-CP, SINGLE LEVER HANDLE FAUCET, 1.5 GPM. PROVIDE CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT, WASTE ARM TO WALL WITH ESCUTCHEON, 1/4 TURN ANGLE BALL STOPS WITH METAL HANDLE. SET FIXUTURE IN BED OF PUTTY.
SS-1	1	SHOP SINK	KOHLER	K-12794-0	SHOP SINK (WALL MOUNT): KOHLER #K-12794-0, SINGLE COMPARTMENT UTILITY SINK, WHITE VITREOUS CHINA, 3 HOLE DRILLED AND #K-1814-P WALL BRACKETS. CHICAGO FAUCETS #526-ABCP WITH 6" SWING SPOUT, 4" CENTER SET, METAL LEVER HANDLES AND REPLACE AERATOR WITH #E35JKCP, 1.5 GPM AERATOR.PLACE IN THE LEFT 2 HOLES. PROVIDE GRID STRAINER DRAIN WITH TAILPIECE, CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT, WASTE ARM TO WALL WITH ESCUTCHEON AND 1/4 TURN ANGLE BALL STOPS WITH METAL HANDLE. PLACE DECK FAUCET/HOSE BIB WITH VACUUM BREAKER INTO THE THIRD HOLE. THE DECK FAUCET (HOSE BIB) SHALL BE CHICAGO FAUCET #349-100328CP (ORDER THRU LOCAL REP), DECK MOUNTED (#349), SHORT SPOUT, VACUUM BREAKER, 3/4"  THREADED HOSE CONNECTION (#305-SVBJKCP), METAL LEVER HANDLE (#369-PLJKCP), CHROME PLATED. MOUNT IN THIRD HOLE OF SHOP SINK.
SH-1	1	SHOWER	FREEDOM SHOWERS	#APFQ6333BF875	ROLL-IN / TRANSFER SHOWER: FREEDOM SHOWERS MODEL #APFQ6333BF875 SIZE: 63"x34" OPTIONS TO INCLUDE: 1) ADA ACCESSORY PACKAGE, 2) PRESSURE BALANCED VALVE/HAND HELD SHOWER & GLIDE BAR, 3) 5'-0" COLLAPSIBLEWATER RETAINER, 4) PROVIDE OUTLET WITH P-TRAP AND CLEAN/POLISH STRAINER TOP AFTER INSTALLATION. REPLACE HAND SPRAY WITH 2.0 GPM. PROVIDE AND INSTALL AN ADDITIONAL SINGLE HANDLE PRESSURE BALANCING MIXING SHOWER UNIT AND PROVIDE SEPARATE CW AND HW PIPING TO CONTROL VALVE - ZURN TEMP-GARD III - #Z7301-SS-MT.
EWC-1	1	ELECTRIC WATER COOLER	OASIS VERSACOOLER II	#PG8EBFSL	DRINKING FOUNTAIN (HANDICAP, WALL MOUNTED): DUAL HEIGHT WITH BOTTLE FILLER, FOUR PUSH PAD ACTIVATION WITH A MINIMUM CAPACITY 8.0 GPH FROM 80°F TO 50°F WITH AMBIENT TEMPERATURE OF 90°F UTILIZING A 1/4 HP, 115V, 1 PHASE COMPRESSOR. PRVIDE 1/4 TURN ANGLE BALL STOP WITH METAL HANDLE, P-TRAP WITH CLEANOUT AND WASTE ARM TO WALL. COORDINATE WITH ARCHITECT FOR WHICH SIDE IS THE HIGHER SIDE.
IWH-1	1	INSTANTANEOUS WATER HEATER	EEMAX	#EX200TC	WATER HEATER (INSTANTANEOUS): EEMAX #EX200TC, 277V-1Ø, 20KW, 72 AMPS (2 CIRCUIT REQUIRED), 1.5 GPM AT 91°F TEMPERATURE RISE, CONSTRUCTED OF HIGH STRENGTH REINFORCED ENGINEERING PLASTIC, RATED AT 150 PSI WORKING PRESSURE, 2 FIELD SERVICEABLE NICKEL-CHROME HEATING ELEMENT, HIGH TEMPERATURE LIMIT SWITCH AND FIVE YEAR WARRANTY. SET HEATER THERMOSTAT TO 120°F.
MB-1	1	MOP BASIN	FIAT	#MSB 2424	FLOOR MOUNTED MOLDED STONE BASIN 24"x24" WITH RAISE DRAIN SHELF WITH 3" DRAIN. PROVIDE WITH WALL MOUNTED CHROME FINISH, PAIL AND WALL BRACE WITH
EP-1	1	EJECTOR PUMP	ZOELLER	#M292	EJECTOR PUMP: ZOELLER M292, SINGLE SEAL, 50 GPM AT 20 FT HEAD, 2" VENT AND 2" DISCHARGE. PROVIDE 24"X24" POLYETHYLENE BASIN WITH ALARM, 41 GAL BASIN CAPACITY.  ELECTRICAL: 115 VOLT, SINGLE PHASE, 1/2 HP, 15 AMPS
PROVIDE SPE	 ECIFIED FIXTU	JŔES^OR^APPROVED^EQUALS-IN^THIS-PORT	TON OF THE SCHEDULE.		
FD-1	5	FLOOR DRAIN	JR SMITH	#2005-P050-BO5BNB	FLOOR DRAIN: JR SMITH #2005 -P050-B05NB WITH 5" SQUARE, NICKEL BRONZE ADJUSTABLE STRAINER HEAD, CAST IRON DRAIN BODY MEMBRANE FLASHING CLAMP AND TRAP PRIMER CONNECTION. PROVIDE OUTLET WITH P-TRAP, CLEAN AND POLISH STRAINER TOP AFTER INSTALLATION.
TP-1	3	TRAP PRIMER	PRECISION PLUMBING	#P1-500	TRAP PRIMER: PRECISION PLUMBING PRODUCT #P1-500, AUTOMATIC OPERATIONS, 1/2" INLET AND OUTLET. SERVICE UP TO FOUR FLOOR DRAIN WITH DISTRIBUTION UNIT. INSTALL IN ACCESSIBLE LOCATION WITH PRIMER BEING A MINIMUM OF 6" ABOVE FLOOD LEVEL OF FLOOR DRAIN RIM. PROVIDE ACCESS PANEL AS REQUIRED.
EWH-1	1	ELECTRIC WATER HEATER	AO SMITH	#DEL-40-12KW	WATER HEATER: AO SMITH #DEL-40-12KW, 40 GALLON STORAGE, 30 GPH RECOVERY AT 80° RISE AND TWO 6000 WATT NON-SIMULTANEOUS HEATING INPUT AT 277 VOLT, SINGLE PHASE SERVICE, THREE YEAR LIMITED WARRANTY, MAGNESIUM ANODE, GLASS-LINED, MEETING CURRENT EDITION OF ASHRAE 90.1B AND LOCAL ENERGY CONSERVATION REQUIREMENTS. PROVIDE T&P RELIEF VALVE AND INSTALL PER MANUFACTURER'S INSTRUCTIONS. PROVIDE HOLDRITE 50-SWHP-W WALL-HUNG PLATFORM WITH 1" PVC DRAIN FITTING, PRE-ASSEMBLED AND WATER-TIGHT.
EXT-1	1	EXPANSION TANK	AMTROL	#ST-5	EXPANSION TANK: AMTROL #ST-5 "THERM-X-TROL", TOTAL VOLUME OF 2.0 GALLONS WITH MAXIMUM ACCEPTANCE VOLUME OF 0.9 GALLONS, 3/4" CONNECTION. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
TMV-1	4	THERMOSTATIC MIXING VALVE	SYMMONS	#7-225-CK	MIXING VALVE: SYMMONS #7-225-CK "MAXLINE", 1/2" INLETS AND OUTLET, THERMOSTATIC CONTROLLER WITH INTEGRAL CHECKS, ALL BRASS BODY WITH DUAL STAINLESS STEEL STRAINER, VANDAL-RESISTANT TEMPERATURE ADJUSTMENT HANDLE. SET TO 105°. MOUNT IN ACCESSIBLE LOCATION.
CP-1	1	CIRCULATION PUMP	GRUNDFOS	#ALPHA 15-55SF	CIRCULATION PUMP: GRUNDFOS #ALPHA 15-55SF, STAINLESS STEEL PUMP WITH A CAPACITY OF 3 GPM AT 12 FT HEAD, 45 WATTS MAX, 115V-1Ø. INSTALL NEAR WATER HEATER PER MANUFACTURER'S INSTRUCTIONS.
IMB-1	2	ICE MAKER BOX	OATEY	#39114	ICE MAKER BOX, PEX CONNECTION, NAILS PROVIDED, RECESSED IN WALL WITH FACE PLATE.
IMB-2	1	WASHER BOX	OATEY	#37611	WASHER BOX, 2-VALVE WITH STANDARD DRAIN, F1807 PEX (BRASS), HAMMER, NAILS PROVIDED, RECESSED IN WALL WITH FACE PLATE.





PLUMBING



STEPPED FLEXIBLE PVC BOOT CLAMPED TO FLASHING
BASE AND PIPE WITH STAINLESS STEEL SCREW

ROOFING

OVER METAL

ROOFING

FLASHING BY

CONTRACTOR

ROOF INSULATION

**ROOF DECK** 

— ANCHOR PIPE TO ROOF DECK OR JOISTS

PROVIDE SPUN

ALUMINUM BASE

IN BED OF MASTIC

COORDINATE

WITH ROOFER-

SLEEVE

ROOF IF

P-200 NO SCALE

PLUMBING

REQUIRED-

ADJACENT WALLS.

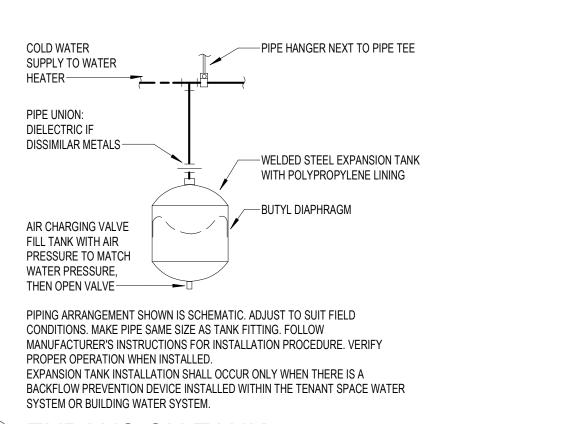
REFER TO PLANS FOR PIPE SIZE(S) AND LOCATION(S).

USE WELDED OR SCREWED FITTINGS AS SPECIFIED FOR

ROOF PENETRATION

PIPE SIZE. LOCATE PENETRATION MINIMUM 18" FROM

INSTANTANEOUS WATER HEATER (SINK) P-200 NO SCALE



**EXPANSION TANK** P-200 NO SCALE

P-200 NO SCALE PLUMBING

HOT WATER TO -SHUT OFF VALVES (TYP) FIXTURES AS SHOWN ON PLANS----TO EXPANSION TANK IF PIPE UNIONS, (DIELECTRIC REQ'D SEE DETAIL REQUIRED FOR DISSIMILAR METALS) -PROVIDE A 210° F TEMPERATURE AND 150 PSI PRESSURE RELIEF VALVE WITH TEST LEVER SIZED ELECTRIC WATER WITH AGA/CGA TEMPERATURE HEATER. REFER TO STEAM RATING 10% OVER SPECIFICATIONS AND HEATER INPUT PLUMBING FIXTURE -HARD COPPER RELIEF SCHEDULE DISCHARGE LINE. FULL SIZE OF VALVE OUTLET TO END OVER HUB DRAIN WITH 6 INCH AIR GAP —DRAIN VALVE PROVIDE WATER-TIGHT GALVINIZED SHEET METAL PAN 2" DEEP WITH ----SET WATER HEATER ON STEEL WALL 1" DRAIN PIPE TO MOUNTED WATER HEATER RECEPTACLE— PLATFORM WITH 1" PVC DRAIN FITTING PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. REFER TO FLOOR PLAN FOR PIPES SIZES. SET WATER HEATER THERMOSTAT AT 120° FAHRENHEIT. PROVIDE SEISMIC STRAP OR BRACING AND FLEXIBLE CONNECTORS TO WATER CONNECTIONS IF/AS REQUIRED BY LOCAL AUTHORITIES. ELECTRIC WATER HEATER

FIXTURE BRANCH SCHEDULE COLD HOT WATER WASTE VENT WATER CLOSET (FLUSH VALVE) 1-1/4" -- 4" 2" 1" -- 2" 1-1/2" URINAL (FLUSH VALVE) LAVATORY 1/2" 1/2" 1-1/2" 1-1/2" SINK / SHOP SINK 1/2" 1/2" 2" 1-1/2" SHOWER 1/2" 1/2" 2" 1-1/2" DRINKING FOUNTAIN 1/2" -- 1-1/4" 1-1/4" FLOOR DRAIN -- 2"/3" 1-1/2" -- 4" 2" HOSE BIBB 3/4" -- -- --SIZES ARE MINIMUM BRANCH SIZE TO FIXTURE.

PIPE SIZE	FLUSH	I TANK	FLUSH	I VAVLE	HOT W	/ATER
-	FU	GPM	FU	GPM	FU	GPM
1/2"	3	2.5	-	-	3	2.5
3/4"	8	6.5	-	-	8	6.5
1"	18	13	4	13	21	15
1-1/4"	36	23	6	23	26	26
1-1/2"	74	37	23	37	49	28
2"	225	70	108	70	119	48

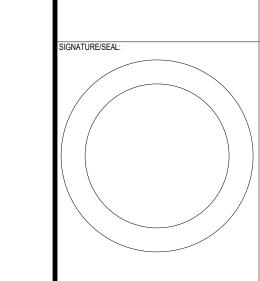
FIXTURE	QUANTITY	WSFU	TOTAL
WATER CLOSET (FLUSH VALVE)	3	10	30
MOP SINK	1	3	3
LAVATORY	3	1.5	4.5
SINK	1	3	3
SHOWER	1	3	3
DRINKING FOUNTAIN	1	0.25	0.25
HOSE BIBB	0	0.5	0
SHOP SINK	1	2.25	2.25
		TOTAL	46

WATER CALCULATION		
CRITICAL ELEVATIONS:	FEET	
VERTICAL DISTANCE FROM WATER MAIN TO CONTROLLING FIXTURE	20	
SYSTEM PRESSURE REQUIREMENTS: ELEVATION (VERTICAL DISTANCE) X 0.434 PSI/FT PRESSURE NEEDED AT CONTROLLING FIXTURE (WATER CLOSET) BACKFLOW PREVENTER: 2" AT 56 GPM PRESSURE REDUCING VALVE (64 PSI): 2" AT 56 GPM WATER METER: 2" AT 56 GPM TOTAL	PSI 8.68 30.00 10.00 10.00 5.00 63.68	
PIPE RUNS:	FEET	
EXTERIOR, MAIN TO BUILDING ENTRY (UNKOWN)	100	
INTERIOR, ENTRY TO REMOTE FIXTURE	160	
ALLOWANCE FOR FITTING, ETC. (LENGTH X 0.25)	65	
TOTAL	325	
SYSTEM PRESSURE DATA:	PSI	
STREET PRESSURE	105.00	
SYSTEM PRESSURE REQUIRED	63.68	
PRESSURE AVAILABLE FOR PIPING FRICTION LOSS	41.32	
PIPE SIZING PER 100 FEET OF PIPING:	PSI	
(PRESSURE AVAILABLE) X 100 / (TOTAL PIPE RUN)	12.71	
* NOTE: ALL PIPING IS SIZED FOR 5 PSI/100' PRESSURE LOSS		

MAXIMUM FIXTURE FLOW RATES/FLUSH RATES		
FIXTURE	FLUSH RATES	
WATER CLOSET (FLUSH VALVE)	1.28	
LAVATORY	.5 @ 60 PSI	
SIZES ARE MAXIMUM FOR FIXTURES.		

PLUMBING

PLUMBING



AWING ISSUANCE LOG: EV DATE DESCRIPTION 11/08/2021 BID SET 12/20/2021 BULLETIN 2 1/14/2022 ISSUED FOR CONSTRUCTION 5 3/01/2022 BULLETIN 5

PLUMBING SYMBOLS, SCHEDULES, & DETAILS

P-200

3/1/2022 3:07:04 PM © 2020 Legal Entity

P-200 NO SCALE

PLUMBING

RCHITECT INFORMATION:

LISONAT

DNSULTANT INFORMATION:

PROJECT INFORMATION:

PRIN

S

NWOOD

**P**