

POLE BASE DETAIL W/ GRD ROD

SCALE: N.T.S. (FIXTURE IS EXISTING, BASE IS NEW)

120/208V/3Ø/4W+GRD 50 AMP BKR, WALL MTD. 42,000 AIC LABELED										
MINI-POWER ZONE L INTEGRAL PANEL/ TRANSFORMER										
CIRC. NO.	LOAD V.A.	LOAD DESCRIPTION	P.O.L.E.	AMP SIZE	P.H.A.S.E.	AMP SIZE	P.O.L.E.	LOAD DESCRIPTION	LOAD V.A.	CIRC. NO.
1	140	BLDG. LIGHTG	1	20	A	20	1	INT. RECEPT.	200	2
3	300	EXT. LIGHTING	1	20	B	20	1	SPARE		4
5	200	EXT. RECEPT.	1	20	C	20	1	SPARE		6
7	60	EF-1	1	20	A	20	1	SPARE		8
9		SPARE	1	20	B	20	1	SPARE		10
11		SPARE	1	20	C	20	1	SPARE		12
13		SPACE						SPACE		14
15		SPACE						SPACE		16
17		SPACE						SPACE		18

15 KVA MINI-POWER ZONE COMBINATION PANEL/ TRANSFORMER, 480V, PRIMARY WITH 120/208V, 3-PHASE, 4-WIRE SECONDARY, 18 POLE PANEL.

277/480V/3Ø/4W+GRD 400 AMP M.L.O. SURFACE MTD. 42,000 AIC LABELED										
PANEL H W/ GRD. BUS										
CIRC. NO.	LOAD V.A.	LOAD DESCRIPTION	P.O.L.E.	AMP SIZE	P.H.A.S.E.	AMP SIZE	P.O.L.E.	LOAD DESCRIPTION	LOAD V.A.	CIRC. NO.
1	15,000	MINI ZONE L	3	25	A	150	3	CP-1	68000	2
3										4
5										6
7		SPARE	1	20	A	20	3	UH-1	3300	8
9		SPARE	1	20	B					10
11		SPARE	1	20	C					12
13		SPACE						CP-2	68000	14
15		SPACE								16
17		SPACE								18

EQUIPMENT CONNECTION SCHEDULE															SCH. CODE SW=DISC. SW CB=CIR.BKR. T=TOGGLE SW.												
ICE - PLANT 3 (NW) WET WELL PUMP STATION																											
UNIT DESIG.	120/208V/3Ø/4W+GRD	208/240V/3Ø/4W+GRD	480/277V/3Ø/4W+GRD	H.P.	FLA	MCA	20/1	30/3	40/3	50/3	60/3	70/3	FUSAT	30/3	60/3	100/3	200/3	400/3	30/2	40/2	FUSE SIZE	NEWMAR	VFD	IN CP-1	IN CP-2	CIRC. NO.	FEEDER IDENT.
CP-1 DUPLX CONTROL PANEL																											
1					81	101															150					H-2	3#1/0& 1#6GRD-1 1/2" C
2					81	101															150					H-14	3#1/0& 1#6GRD-1 1/2" C
P- PUMP																											
1A				20	27	35															35					CP-1	3#6& 1#10GRD-1" C
1B				40	54	68															70					CP-1	3#4& 1#8GRD-1-1/4" C
2A				20	27	35															35					CP-2	3#6& 1#10GRD-1" C
2B				40	54	68															70					CP-2	3#4& 1#8GRD-1-1/4" C
EF- EXHAUST FAN																											
1				60W																						L-7	2#12& 1#12GRD-1/2" C
UH- UNIT HEATER																											
1				3.3KW	4																					H-8	3#12& 1#12GRD-3/4" C

EQUIPMENT CONNECTION SCHEDULE NOTES

ICE - PLANT 3 (NW) WET WELL PUMP STATION

- ALL CONNECTIONS AND ELECTRICAL EQUIPMENT LISTED IN SCHEDULE SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. FIELD VERIFY CONNECTION REQUIREMENTS AND EQUIPMENT PROVIDED BY OTHERS PRIOR TO ROUGH-IN.
- REFER TO DRAWINGS AND SPECIFICATIONS FOR THE REQUIREMENTS ASSOCIATED WITH WIRING AND CONNECTIONS OF INTERLOCKING, THERMOSTAT LOCATIONS, EXHAUST FAN CONTROL SWITCHES, AND OTHER CONTROLS OF MECHANICAL EQUIPMENT.
- NOT USED.
- PROVIDE A 30A, 1 POLE, 125V, HORSEPOWER RATED TOGGLE SWITCH WITH A 125V, 3/4 HP RATED FUSTAT (EQUAL TO BUSSMAN #SOY), SIZE FUSE PER MANUFACTURER'S RECOMMENDATION.
- STARTER AND POWER FACTOR CORRECTION CAPACITORS SHALL BE PROVIDED AS PART OF CP-1. CONTRACTOR TO PROVIDE WIRING FROM CP-1 TO DISTRIBUTION BLOCKS IN JUNCTION BOX LOCATED OUTSIDE BUILDING AND CONNECT PUMP SUPPLIED CABLING AS REQUIRED.
- PROVIDE CONNECTION TO EXHAUST FAN PROVIDED WITH UTILITY SHED AS REQUIRED. INSTALL A COOK MODEL GC-142 CABINET FAN OR EQUIVALENT, 75 CFM AT 0.25" E.S.P., 59 WATTS, 120V/160. INSTALL TIGHT TO CEILING OF UTILITY SHELTER, PROVIDE ALUMINUM GRILLE, WALL CAP PAINTED TO MATCH UTILITY SHELTER, CONTROL TRANSFORMER, AND 24V. THERMOSTAT TO TURN FAN ON ABOVE 80° (ADJUSTABLE). INSTALL A 12" X 12" WALL LOUVER WITH MOTORIZED DAMPER INTERLOCKED TO OPEN WITH FAN OPERATION.
- PROVIDE CONNECTION TO UNIT HEATER IN UTILITY SHED AS REQUIRED. VERIFY LOCATION PRIOR TO ROUGH-IN. INSTALL A MARKEL MODEL P3P5103CAIN ELECTRIC UNIT HEATER OR EQUIVALENT. HEATER SHALL BE 3.3 KW, 112 MBH, 4.0A, 480/3Ø/60. PROVIDE WITH WALL MOUNTING BRACKET, CONTROL TRANSFORMER, AND 24 V LOW VOLTAGE THERMOSTAT TO START THE HEATER BELOW 50° (ADJUSTABLE).
- CONTRACTOR TO ADD TIME DELAY START TO CIRCUIT.
- FUTURE PUMP - INSTALL CONDUIT AT THIS TIME

LIGHT FIXTURE SCHEDULE

ICE - PLANT 3 (NW) WET WELL PUMP STATION

FIXT LTR	MANUFACTURER	CATALOG NUMBER	LAMPS		FIXT. VOLT.	FINISH	MOUNTING	REMARKS
			NO.	TYPE				
A	WILLIAMS	96-4-L62-HIAFR-DRV-UNV	--	LED	UNV	WHITE	SURFACE	ENCLOSED AND GASKETED.
B	WILLIAMS	WPI-L44/850-PG-WG-120	--	LED	120	STANDARD	WALL	(1)(2)

LIGHT FIXTURE SCHEDULE NOTES

ICE - PLANT 3 (NW) WET WELL PUMP STATION

- PROVIDE FIXTURE WITH INTEGRAL PHOTOCELL.
- MANUFACTURERS LISTED IN THIS SCHEDULE OR APPROVED BY WRITTEN ADDENDUM WILL BE THE ONLY APPROVED MANUFACTURERS TO BID THE LIGHTING FIXTURES FOR THIS PROJECT. CONTRACTORS AND SUPPLIERS USING PRICING FROM MANUFACTURERS NOT LISTED ON SCHEDULE OR BY ADDENDUM DO SO AT THEIR OWN RISK.

SYMBOL LIST

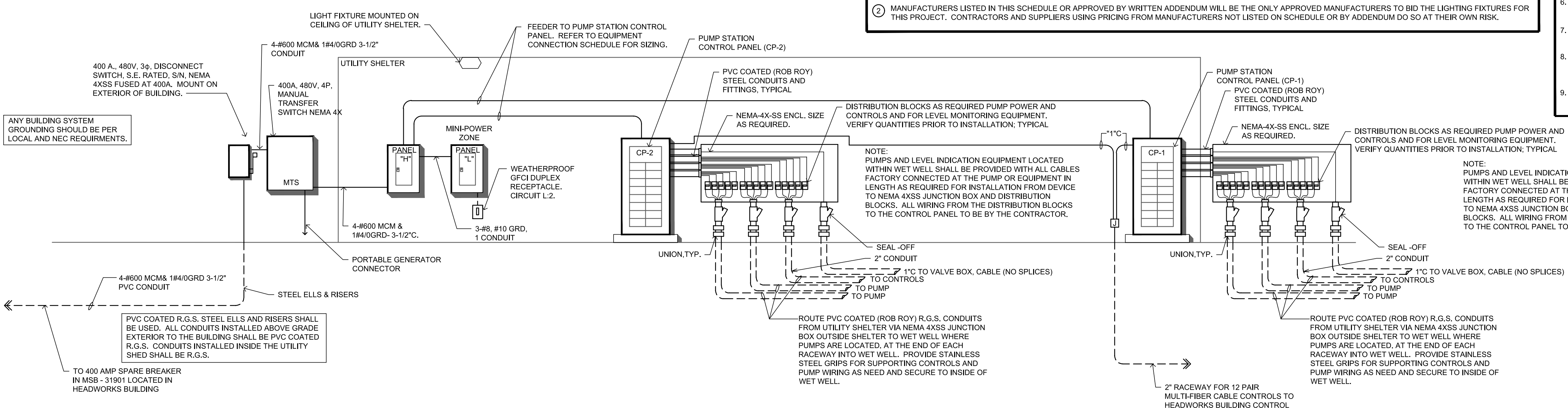
ICE - PLANT 3 (NW) WET WELL PUMP STATION

SYMBOL	DESCRIPTION	MOUNTING
(A)	LED FIXTURE & FIXTURE LETTER	CEILING
(A)	LED FIXTURE & FIXT. LETTER	WALLBRACKET
(G)	GFCI DUPLX GROUNDED RECEPTACLE	1'-3" AFF
(G)	DUPLX GROUNDED RECEPTACLE	1'-3" AFF
(G)	EXTERIOR GFCI RECEPT. WEATHERPROOF	1'-3" AFF
(S)	SWITCHES (1-POLE, 3-WAY, 4-WAY, PILOT, KEY)	4'-0" TO TOP
(J)	JUNCTION BOX	
(F)	FUSTAT	
(S)	SPECIAL DEVICE AS NOTED ON PLAN	
(A)	BRANCH CIRCUIT PANEL & PANEL DESIG.	6'-6" TO TOP
(S)	30/3/240 H.D. SAFETY SWITCH (AMPS, POLE, VOLTAGE)	6'-6" TO TOP
(S)	0/3/240 STARTER (SIZE, POLE, VOLTAGE)	6'-6" TO TOP
(T)	THERMOSTAT (BY M.C.)	4'-0" TO TOP
(M)	MOTOR	
(C)	CONDUIT RUN 2#12 & 1#12 GRD.-1/2" C.	CEIL/WALL
(C)	CONDUIT RUN 2 CIRCUIT, 3#12 & 1#12 GRD.-1/2" C.	EARTH/FLOOR
(H)	PARTIAL HOMERUN (MULTIPLE LOAD LOCATIONS)	
(H)	SEE NOTE #7	
(XXX)	FEEDER IDENTIFICATION, SEE SCHEDULE	
WP	WEATHERPROOF	
a,b,c	INDICATES SWITCHING SCHEME	

GENERAL NOTES

ICE - PLANT 3 (NW) WET WELL PUMP STATION

- ALL ELECTRICAL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) & THE AMERICANS WITH DISABILITIES ACT (ADA).
- REFER TO RELATED ARCHITECTURAL, MECHANICAL, AND STRUCTURAL DRAWINGS FOR RELATED INFORMATION.
- REFER TO THE SPECIFICATIONS FOR DATA NOT ON THE DRAWINGS.
- E.C. SHALL REFER TO DRAWINGS AND SPECIFICATIONS FOR THE REQUIREMENTS ASSOCIATED WITH WIRING AND CONNECTION OF INTERLOCKING AND CONTROLS OF MECHANICAL UNITS AND THERMOSTAT LOCATIONS.
- COORDINATE OUTLET BOX LOCATIONS WITH MASONRY TO MINIMIZE CUTTING OF BRICK OR BLOCK.
- ALL MOUNTING HEIGHTS TO CENTERLINE OF ITEM UNLESS OTHERWISE NOTED. VERIFY ALL OUTLET LOCATIONS ON THE JOB PRIOR TO ROUGH-IN.
- CONDUIT RUN W/ CONDUCTORS AS INDICATED & GROUND WIRE SIZED PER N.E.C. 250-122 (2017); CONDUIT SIZE AS REQUIRED.
- WHEN INCREASED CONDUCTOR SIZES ARE SHOWN ON THE PLANS, THE LARGER CONDUCTOR SIZE SHALL BE USED THROUGHOUT THE LENGTH OF THE CIRCUIT, INCLUDING NEUTRAL AND GROUND.
- CONTRACTOR SHALL BUILD TO ALL CURRENT NATIONAL, STATE, AND LOCAL CODES.



A ELECTRICAL RISER DIAGRAM

SCALE: NONE

SERVICE VOLTAGE:
277/480 V, 3Ø, 4W.

ELECTRICAL CONTRACTOR SHALL VERIFY CONDUIT QUANTITIES NEEDED. ALL CONDUITS REQUIRED MAY NOT BE SHOWN IN THIS RISER DIAGRAM.

BAUGHMAN COMPANY

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PLANT #3 (NW)
NEW WET WELL

ELECTRICAL RISER DIAGRAM

Sanitary Sewer Improvements

PROJECT NUMBER:
22-05-E186

DESIGN: GS DRAWN: IK

DATE: 12/13/2023

SHEET 19 OF 29