



ADDENDUM TO THE CONTRACT

for the

CHANNEL DRIVE & CHANNEL VISTA PUMP STATION REHABILITATION Contract No. BE21-148

ADDENDUM NO.: TWO

CURRENT DEADLINE FOR BIDS:
December 15, 2020

PREVIOUS ADDENDA: ONE

ISSUED BY: City and Borough of Juneau
ENGINEERING DEPARTMENT
155 South Seward Street
Juneau, Alaska 99801

DATE ADDENDUM ISSUED: December 8, 2020

The following items of the contract are modified as herein indicated. All other items remain the same. This addendum has been issued and is posted online. Please refer to the CBJ Engineering Contracts Division webpage at: <http://www.juneau.org/engineering ftp/contracts/Contracts.php>

DRAWINGS:

Question: "E12 shows two 4X enclosures mounted on the outside of the building but the line diagram from E13 shows 3? Please advise if 2 is sufficient?"

Response: Three enclosures are required on rack adjacent to wet well where pump power and control cables will terminate. These are the three boxes shown on E13. Two in-grade junction/pull boxes are shown near the wet well on sheet E11. Two NEMA 4X pull boxes are on the generator building as shown on sheet E12. Power and control shall be in separate conduit systems.

Question: "Please confirm that item 'E2' on the equipment schedule (sheet E5) does not include the '3-pole receptacle' as it is outlined below as equipment item 'E8.'"

Response: Sheet E5 has been revised to delete "with 3-wire, 3- pole receptacle" from Electrical Equipment Item E2 description on the equipment schedule; see drawing Item No. 2 in this Addendum.

Question: "Is there a reason the service equipment is mounted on an equipment rack instead of mounted to the new structure at Channel Drive?"

Response: Mount equipment to the equipment rack as shown on the drawings. New controls hut at Channel Drive may be capable of supporting equipment, but will require manufacturer's verification.

Question: "What type of panel is the MDP in the Channel Vista building so the correct breaker can be quoted?"

Response: The Channel Vista MDP is a GE A Series Panelboard.

Question: "Sheet E4, detail 2, shows equipment tag E6 as a main generator disconnect. Same sheet, detail 3, shows a similar disconnect on the interior of the new enclosure. Please clarify intent and purpose of interior disconnect, or confirm that this is mislabeled, and should be E7 (Control Panel)."

Response: Sheet E4, Detail 3 has been revised so the control panel is correctly labeled as Item E7 on the equipment schedule; see drawing Item No. 1 in this Addendum.

Question: "Why are conduits that feed the pump at the Channel Dr location called out to be 2" while the conduits at the Channel Vista location to be 1 1/2"? 2" conduits are also shown entering wet wells at both locations. If Channel Vista is to get 1 1/2" conduits where do they start and end?"

Response: Install 2" conduit for pump power and control cables from wet well to rack mounted junction boxes adjacent to wet well at Channel Vista and Channel Drive, as shown on the drawings. Due to the size of pump power cables, contractor shall field verify conduit fill before installation. Single conductors for power are used from rack mounted j-box terminals at the wet well to the generator building at Channel Vista, and to the new controls hut at Channel Drive. Power conductors will fit in 1 1/2" conduits, as shown on the drawings.

PROJECT MANUAL:

Item No. 1 SECTION 00852 – PERMITS, 1.1 Index of Permits
Add the following permit:
"C. CBJ Building Permit No. BLD20200611"

DRAWINGS:

Item No. 1 SHEET E4, Channel Drive Electrical Enclosure Layout Plan
Replace SHEET E4 **with** the attached SHEET E4

Item No. 2 SHEET E5, Channel Drive Power One-Line and Panel Schedules
Replace SHEET E5 **with** the attached SHEET E5

By: 

Greg Smith,
Contract Administrator

Total number of pages contained within this Addendum: 5



BUILDING PERMIT

Permit No.
BLD20200611

* NOTE: "Building Permit" is a generic term which includes Building Safety Inspection, Grading Permits, and permits for Electrical, Plumbing and Mechanical work.

Your special attention is called to the following:

This permit is granted on the express conditions that the construction shall, in all respects, conform to the ordinances of the City and Borough of Juneau. It may be revoked at any time upon violation of any of said ordinances.

The granting of this permit does not authorize the violation of any federal, state or local law regulating construction for the violation of the terms of any deed or covenant or any zoning or other regulation.

If plan review was required, this permit must be attached to the approved drawings. The permit, plans and record of inspections must be available on site at all times while the construction is in progress and before final inspection.

The yellow posting notice must be prominently displayed to show a permit has been issued and to assist the inspectors in location of the project. This permit becomes null and void if work or construction authorized is not commenced within one year or if work or construction is suspended or abandoned for a period of one year at any time after work has commenced.

Note: City Ordinances REQUIRE a Final Inspection be approved for every Building Permit.

Inspections

Inspections can be arranged by telephoning 586-1703 or by written or faxed notification.

The Online Building Inspection Request Form is at: www.juneau.org/permits/inspect_request.php.

Work shall not proceed until the inspector has approved the various stages of construction. An approved Final Inspection is required.

Call before 7:00 AM for same day inspections.

Please provide the following information: 1 Permit Number, 2 Address, 3 Type of Inspection, 4 Date and Time and 5 Contact Name and Phone Number.

Job Address: N DOUGLAS HWY	Issued Date : 12/02/2020
Permit Number: BLD20200611	Parcel No: 0
Project Description: Lift station upgrades at end of Channel Drive	

Parcel Information :

Setbacks:	Zone: :	Front: 25.00 Ft.	Side 1: 15.00 Ft.	Rear: 25.00 Ft.	Side 2: 15.00 Ft.	Street Side: 17.00 Ft.
Comments:						

Owner :	CITY AND BOROUGH OF JUNEAU 155 S SEWARD ST JUNEAU AK 99801
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Applicant :	CITY AND BOROUGH OF JUNEAU ENGINEE 155 SOUTH SEWARD JUNEAU AK 99801
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Fee Type	Date	Receipt	Amount Paid
Total Fees Paid:			

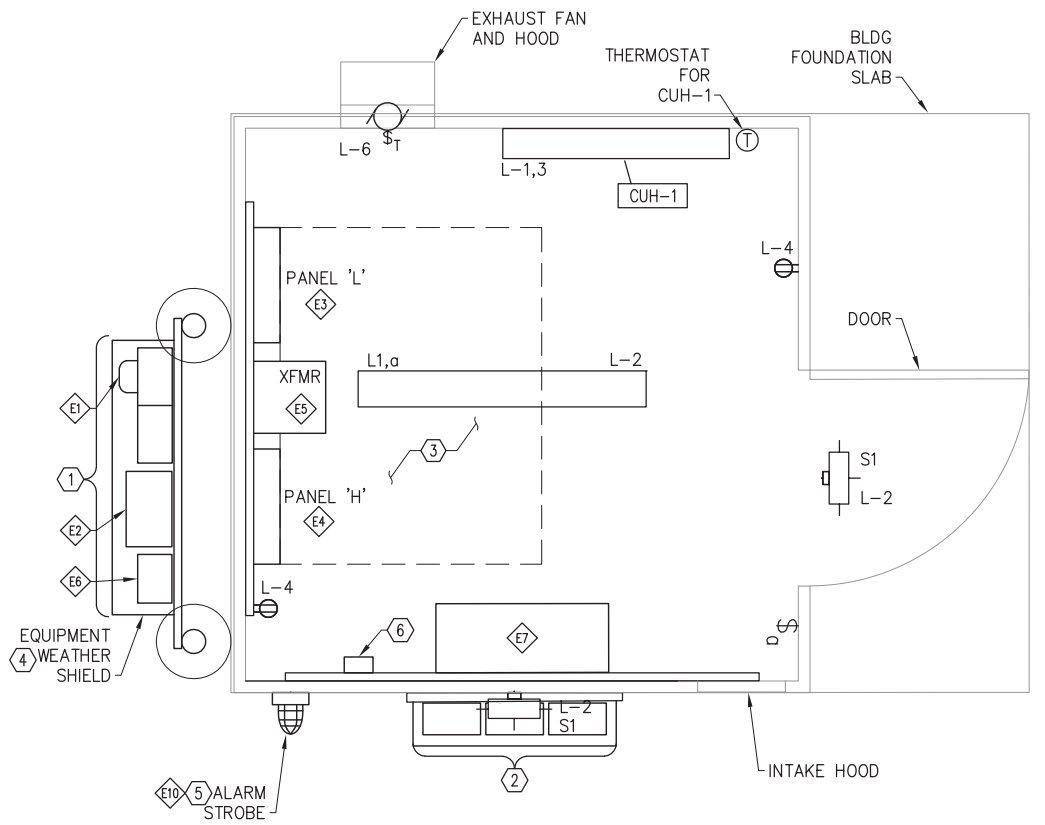
Valuation for Permit Fee Calculations:		
<u>S.F.</u>	<u>Type</u>	<u>Rate</u>
		<u>Amount</u>
		725,000.00
Total Valuation:		<u>\$725,000.00</u>

Project Conditions and Holds:
Approved Plans On Site - CBJ approved plans must be on site and available to the inspector. Inspections will not be performed and additional fees may apply if approved plans are not available to the inspectors.

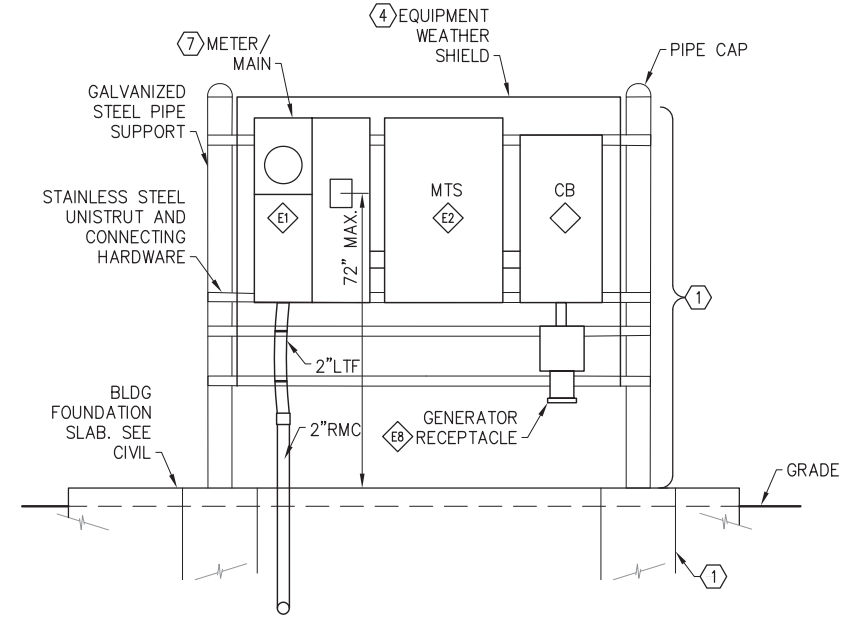
Inspections Required: Call for inspection before covering or concealing any of the work described below. Inspections may be combined.

B-Foundation, Forms and Reinforcing Steel	B-Under Slab Utilities	B-Rough Plumbing
B-Building Final		

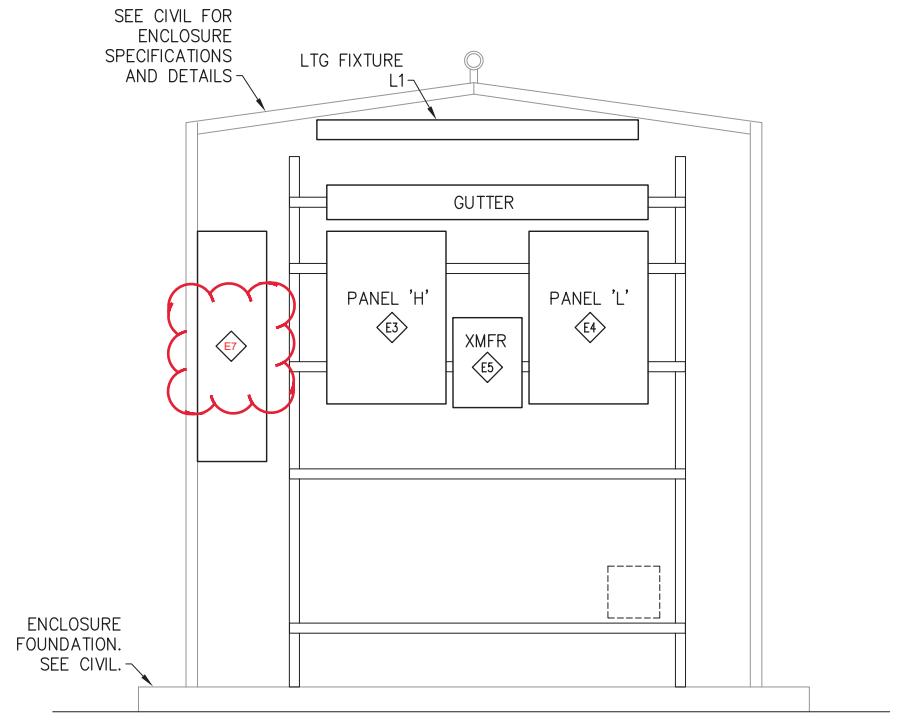
D:\Projects\DOWN\juneau_channel_lift_stations\Drawings\Elec\E4 - CHANNEL DRIVE LIFT STATION ELECTRICAL ENCLOSURE LAYOUT PLAN.dwg SAVED DATE 2020-11-05 13:30 PLOT DATE 2020-11-06 10:19



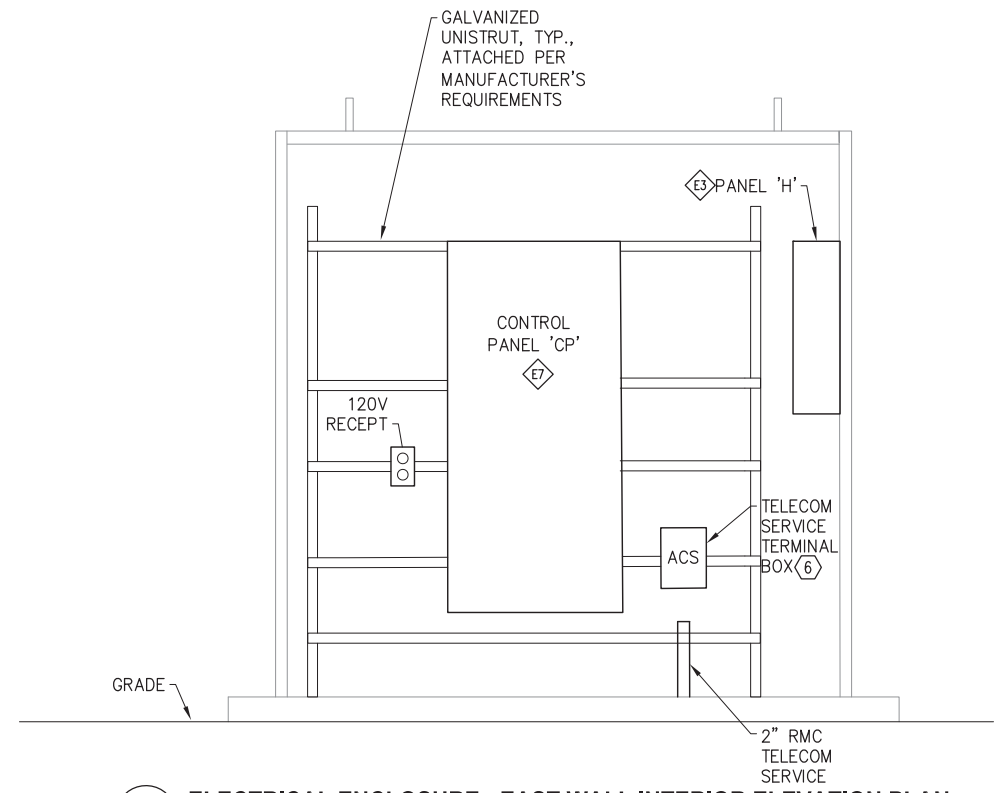
1 ELECTRICAL ENCLOSURE - FLOOR PLAN
E4



2 EXTERIOR SERVICE RACK ELEVATION DETAIL
E4



3 ELECTRICAL ENCLOSURE - SOUTH WALL INTERIOR ELEVATION PLAN
E4



4 ELECTRICAL ENCLOSURE - EAST WALL INTERIOR ELEVATION PLAN
E4

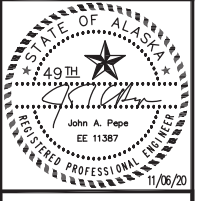
SHEET NOTES

- ① SERVICE EQUIPMENT RACK. SEE RACK ELEVATION DETAIL ON THIS SHEET. PROVIDE EQUIPMENT IN ACCORDANCE WITH CBJ STANDARD DETAIL 220-6A.
 - ② PROVIDE POWER AND CONTROL/INSTRUMENTATION TERMINAL BOXES. NEMA 4X STAINLESS STEEL. SEE DETAILS ON SHEET E9.
 - ③ MAINTAIN ELECTRICAL CLEAR SPACE ABOUT EQUIPMENT IN ACCORDANCE WITH NEC 110.26.
 - ④ PROVIDE WEATHER SHIELDS FOR ALL EXTERIOR EQUIPMENT PER CBJ STANDARD DETAIL 220-5.
 - ⑤ PROVIDE ALARM STROBE WITH SIGNAGE. SEE SHEET E18, DETAIL 3.
 - ⑥ TELECOM UTILITY SERVICE BOX. COORDINATE WITH TELECOM UTILITY (ACS) TO RECONNECT TELEPHONE SERVICE TO NEW LIFT STATION PANEL. SEE SITE PLAN ON SHEET E2 FOR SERVICE CONDUIT DETAILS. ALL WORK SHALL BE IN ACCORDANCE WITH ACS'S REQUIREMENTS.
 - ⑦ PROVIDE ELECTRICAL SERVICE EQUIPMENT AND CONDUIT IN ACCORDANCE WITH (AEL&P) REQUIREMENTS.
- ◆ E# SEE SHEET E5 FOR ELECTRICAL EQUIPMENT SCHEDULE.

TAG ID	LOAD					CIRCUIT SIZE	NOTES
	KVA	HP	FLC	V	PH		
CUH-1	2			240	1	1/2" C, 2#12(H,N), 1#12 EGC	1
EF-1		F		120	1	1/2" C, 2#12(H,N), 1#12 EGC	1

NOTES:
1. SIZING IS APPROXIMATE. CONTRACTOR SHALL PROVIDE ADEQUATE HEATING AND VENTILATION BASED ON ENCLOSURE SPECIFICATION REQUIREMENTS.

REV	DATE	DESCRIPTION
1	12/7/20	ADDENDUM 2



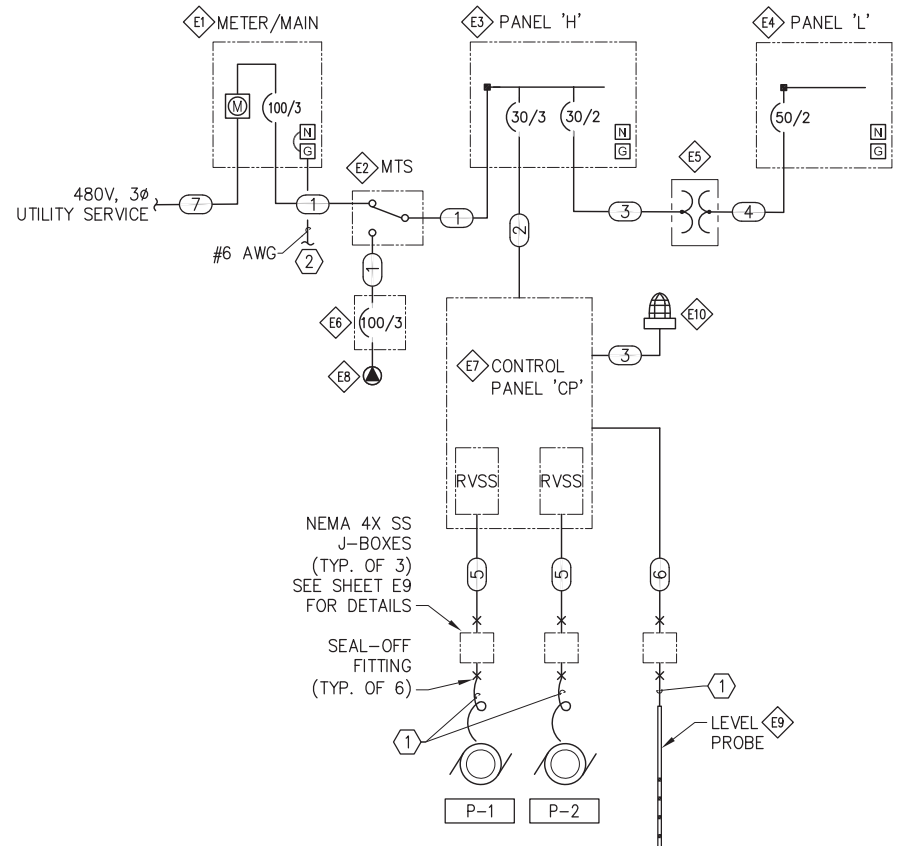
EDC, INC.
213 W. FIREWEED LANE
ANCHORAGE, AK 98503
(907) 276-7933
LICENSE NO. AEC0705

CHANNEL DRIVE & CHANNEL VISTA
PUMP STATION REHABILITATION
JUNEAU, ALASKA
CHANNEL DRIVE PUMP STATION
ELECTRICAL ENCLOSURE LAYOUT PLAN

PROJECT 1528.50166.01
DATE 11/06/2020

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D:\Projects\DOWN\juneau_channel_lift_stations\channel_lift_stations\power_one_line_and_panel_schedules.dwg - CHANNEL DRIVE LIFT STATION POWER ONE-LINE AND PANEL SCHEDULES.dwg - SAVED DATE: 2020-10-28 12:08 PLOT DATE: 2020-11-6 10:19



1 CHANNEL DRIVE ELECTRICAL - POWER ONE-LINE
E5

ELECTRICAL EQUIPMENT SCHEDULE		
ITEM NO.	DESCRIPTION	MANUFACTURER OR EQUAL
E1	100A, 480V, 3φ, 3-WIRE METER/MAIN, NEMA 4X STAINLESS STEEL	SQUARE D. EQUIPMENT IN ACCORDANCE WITH UTILITY'S (AEL&P) SERVICE REQUIREMENTS
E2	100A MANUAL TRANSFER SWITCH WITH 3-WIRE, 3-POLE, NEMA 4X STAINLESS STEEL.	SQUARE D.
E3	100A, 480V, 3φ, 3-WIRE PANEL 'H', 18 SPACE NEMA 1	SQUARE D
E4	100A, 240/120V, 1φ, 3-WIRE PANEL 'L', 24 SPACE NEMA 1	SQUARE D
E5	10KVA, 480:240/120V, 1φ DRY-TYPE TRANSFORMER	SQUARE D
E6	100A, 480V, 3φ, ENCLOSED CIRCUIT BREAKER, NEMA 4X STAINLESS STEEL	SQUARE D
E7	LIFT PUMP CONTROL PANEL 'CP'	FLYGT/STA-CON. SEE SHEETS E6-E8 AND SPECIFICATIONS
E8	100A, 480V, 3φ PIN-AND-SLEEVE GENERATOR RECEPTACLE WITH METTALIC BACK BOX	COOPER/CROUSE-HINDS AR SERIES RECEPTACLE IN ACCORDANCE WITH CBJ STANDARD 220-6A
E9	LEVEL PROBE	MULTITRODE. SEE SPECIFICATIONS
E10	ALARM STROBE, 120V, WEATHERPROOF, RED LENSE WITH SIGNAGE. SEE SHEET E18, DETAIL 3 FOR SIGNAGE.	FEDERAL SIGNAL

- SHEET NOTES**
- NEW PUMP POWER AND INSTRUMENT CABLES IN 2" C. PROVIDE AS INDICATED ON SHEET E3 ELEVATIONS AND AS REQUIRED PER MANUFACTURER'S RECOMMENDATIONS.
 - PROVIDE SYSTEM GROUNDING PER NEC ARTICLE 250.

CIRCUIT SCHEDULE	
TAG	DESCRIPTION
1	2" C, 4#2(3H, N), 1#6 EGC
2	3/4" C, 3#10(3H, N), 1#10 EGC
3	3/4" C, 2#10(2H), 1#10 EGC
4	1" C, 3#6(2H, N), 1#8 EGC
5	1-1/2" C, 4#10(3H, EGC), 4#12(4SIG)
6	2" C, 11#14 (11SIG), 1#14 EGC
7	2" C, UTILITY SERVICE, PER AEL&P STANDARDS

EQUIPMENT CONNECTION SCHEDULE						
TAG ID	LOAD					CIRCUIT SIZE
	KVA	HP	FLC	V	PH	
P-1		5	7.6	480	3	SEE CIRCUIT SCHEDULE
P-2		5	7.6	480	3	SEE CIRCUIT SCHEDULE

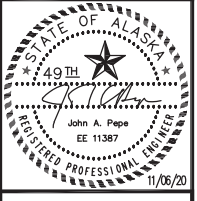
PANEL 'H' SCHEDULE												
VOLTAGE: 480/277 BUS: 100A MAIN: MLO			LOCATION: ELECTRICAL ENCLOSURE				MIN. A.I.C. RATING: 10,000 ENCLOSURE: NEMA 1 MOUNTING: SURFACE					
CKT	AMP	LOAD DESCRIPTION	KVA	LOAD	A	B	C	LOAD	KVA	LOAD DESCRIPTION	AMP	CKT
1			4.5	LM	6.1			F	1.6			2
3	30/3	CONTROL PANEL 'CP'	4.5	LM		5.7		F	1.2	PANEL 'L' FEEDER	30/2	4
5			4.5	LM			4.5					6
7					0.0							8
9						0.0						10
11							0.0					12
13								0.0				14
15									0.0			16
17												18
					6.1	5.7	4.5					
TOTAL KVA: 16.3 AMPS: 19.6												

SUMMARY BY LOAD TYPE	CONNECTED KVA			TOTAL KVA	NEC%	NEC TOTAL	NOTES:
	PH A	PH B	PH C				
L LIGHTING	0.0	0.0	0.0	0.0	1.25	0.0	
R RECEPTACLES	0.0	0.0	0.0	0.0	10K+50%	0.0	
M MOTORS	0.0	0.0	0.0	0.0	1.00	0.0	
LM LARGEST MOTOR	4.5	4.5	4.5	13.5	1.25	16.9	
C CONTINUOUS	0.0	0.0	0.0	0.0	1.25	0.0	
N NON-CONTINUOUS	0.0	0.0	0.0	0.0	1.00	0.0	
S SPARE	0.0	0.0	0.0	0.0	1.00	0.0	
X NON-COINCIDENT	0.0	0.0	0.0	0.0	0.00	0.0	
O OTHER	0.0	0.0	0.0	0.0	1.00	0.0	
F FEEDER	1.6	1.2	0.0	2.8	1.00	2.8	
TOTAL KVA (PHASE)	6.1	5.7	4.5	16.3		16.9	
TOTAL AMPERES	22.0	20.6	16.2	19.6		20.3	
PHASE BALANCE, ABC	A-B	B-C	C-A				
PERCENT							

PANEL 'L' SCHEDULE												
VOLT: 120/240V BUS: 100A MAIN: 50A CB			LOCATION: ELECTRICAL ENCLOSURE				A.I.C. RATING: 10,000 ENCLOSURE: NEMA 1 MOUNTING: SURFACE					
CKT	AMP	LOAD DESCRIPTION	KVA	LOAD	A	B	LOAD	KVA	LOAD DESCRIPTION	AMP	CKT	
1			0.8	C	1.2		L	0.4	LIGHTING	20/1	2	
3			0.8	C		1.2	R	0.4	RECEPTACLES	20/1	4	
5					0.4		LM	0.4	EXHAUST FAN (EF-1)	20/1	6	
7						0.0					8	
9							0.0				10	
11								0.0			12	
13											14	
15											16	
17											18	
19											20	
21											22	
23											24	
					1.6	1.2						
TOTAL KVA: 2.8 AMPS: 11.7												

SUMMARY BY LOAD TYPE	CONNECTED KVA			TOTAL KVA	NEC%	NEC TOTAL	NOTES:
	PH A	PH B	FEED				
L LIGHTING	0.4	0.0		0.4	1.25	0.5	
R RECEPTACLES	0.0	0.4		0.4	10K+50%	0.4	
M MOTORS	0.0	0.0		0.0	1.00	0.0	
LM LARGEST MOTOR	0.4	0.0		0.4	1.25	0.5	
C CONTINUOUS	0.8	0.8		1.6	1.25	2.0	
N NON-CONTINUOUS	0.0	0.0		0.0	1.00	0.0	
S SPARE	0.0	0.0		0.0	1.00	0.0	
X NON-COINCIDENT	0.0	0.0		0.0	0.00	0.0	
O OTHER	0.0	0.0		0.0	1.00	0.0	
F FEEDER	0.0	0.0		0.0	1.00	0.0	
TOTAL KVA (PHASE)	1.6	1.2		2.8		3.4	
TOTAL AMPERES	13.3	10.0		11.7		14.2	
PHASE BALANCE, AB	A-B	B-A					
PERCENT	57	43					

REV	DATE	DESCRIPTION
1	12/7/20	ADDENDUM 2



EDC, INC.
213 W. FIREWEED LANE
ANCHORAGE, AK 98503
(907) 276-7933
LICENSE NO. AEC0705

CHANNEL DRIVE & CHANNEL VISTA
PUMP STATION REHABILITATION
JUNEAU, ALASKA
CHANNEL DRIVE PUMP STATION
POWER ONE-LINE AND PANEL SCHEDULES

PROJECT 1528.50166.01
DATE 11/06/2020

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