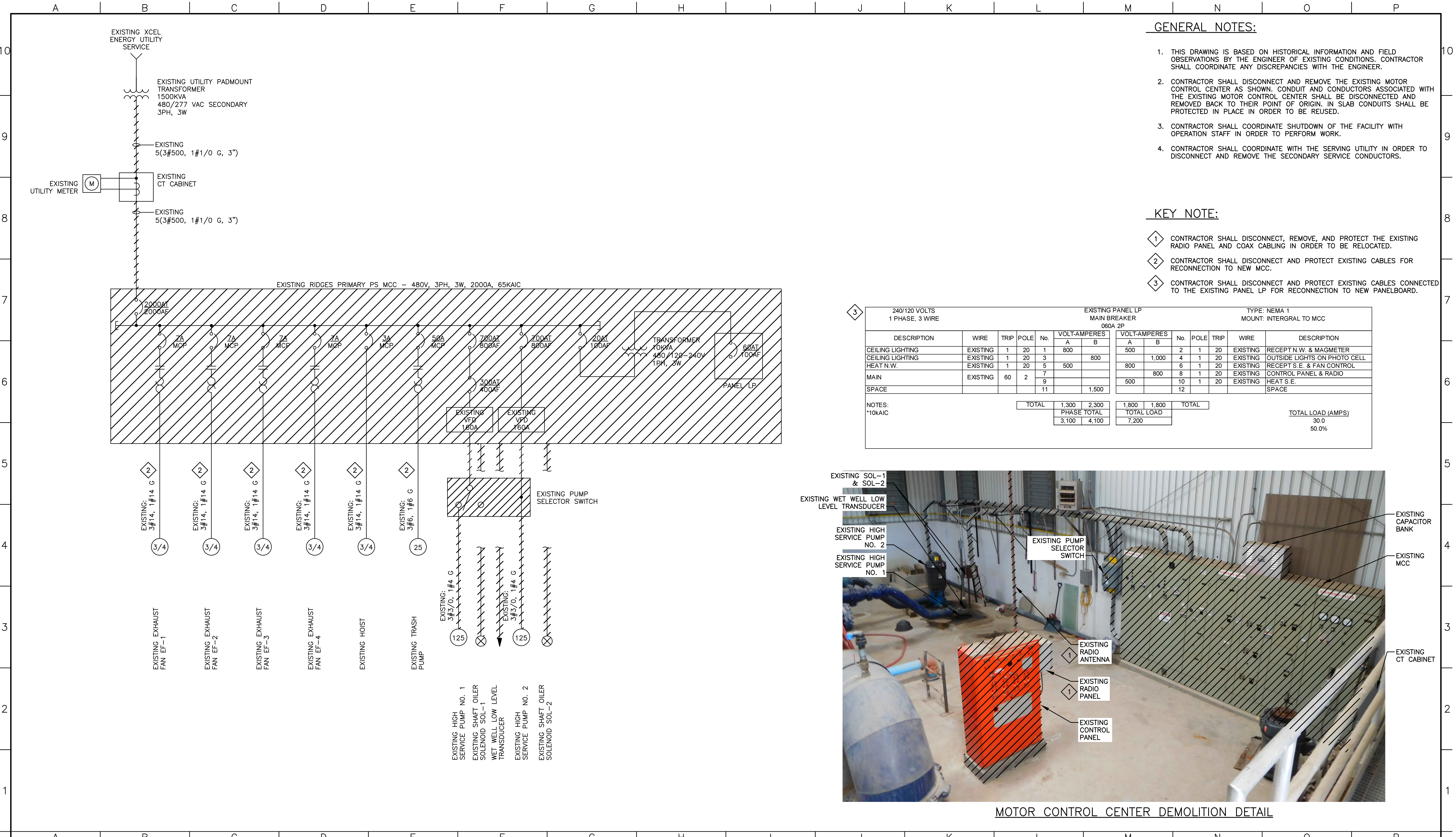




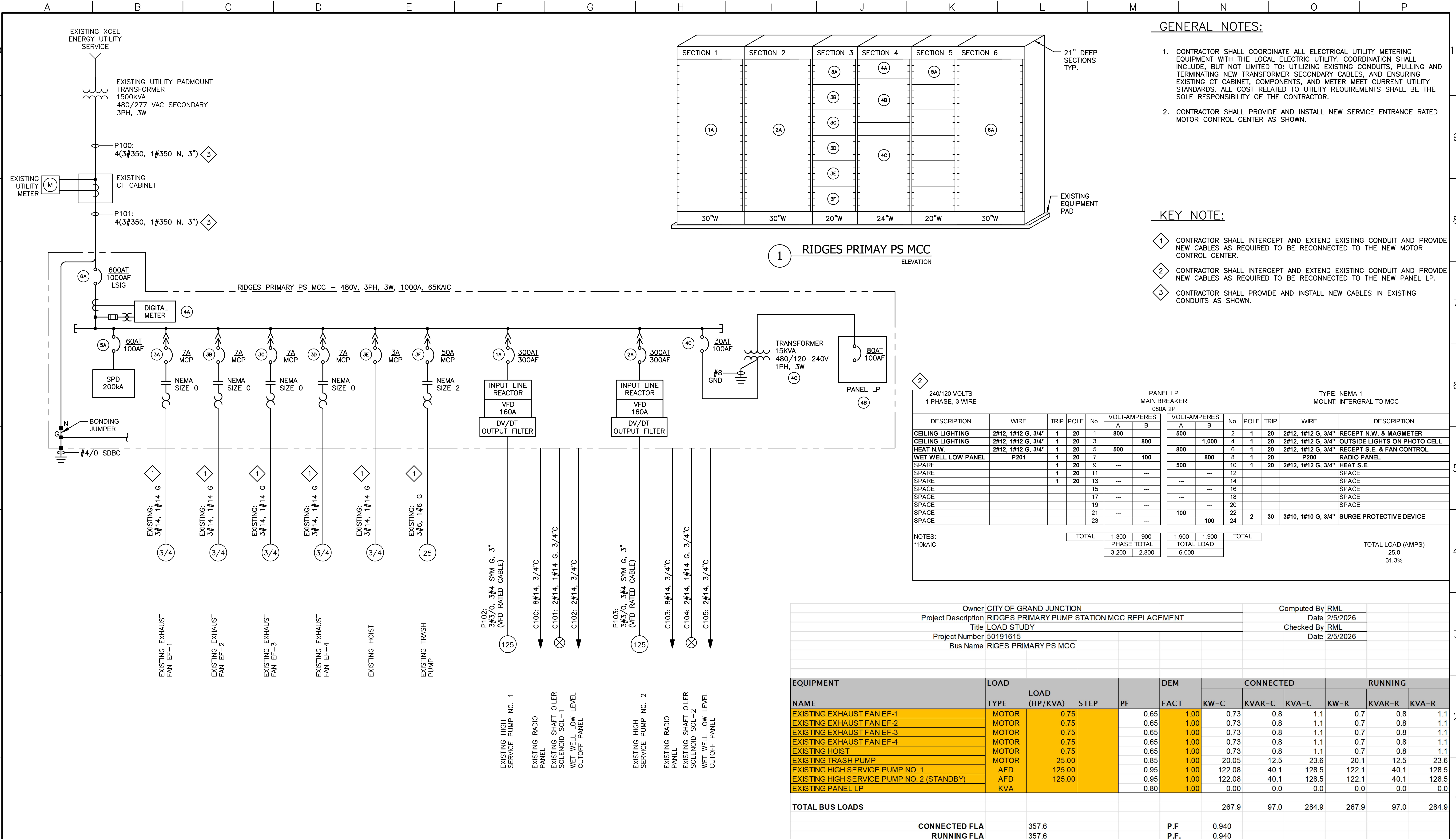
GENERAL NOTES:

1. THIS DRAWING IS BASED ON HISTORICAL INFORMATION AND FIELD OBSERVATIONS BY THE ENGINEER OF EXISTING CONDITIONS. CONTRACTOR SHALL COORDINATE ANY DISCREPANCIES WITH THE ENGINEER.
2. CONTRACTOR SHALL DISCONNECT AND REMOVE THE EXISTING MOTOR CONTROL CENTER AS SHOWN. CONDUIT AND CONDUCTORS ASSOCIATED WITH THE EXISTING MOTOR CONTROL CENTER SHALL BE DISCONNECTED AND REMOVED BACK TO THEIR POINT OF ORIGIN. IN SLAB CONDUITS SHALL BE PROTECTED IN PLACE IN ORDER TO BE REUSED.
3. CONTRACTOR SHALL COORDINATE SHUTDOWN OF THE FACILITY WITH OPERATION STAFF IN ORDER TO PERFORM WORK.
4. CONTRACTOR SHALL COORDINATE WITH THE SERVING UTILITY IN ORDER TO DISCONNECT AND REMOVE THE SECONDARY SERVICE CONDUCTORS.

KEY NOTE:

1. CONTRACTOR SHALL DISCONNECT, REMOVE, AND PROTECT THE EXISTING RADIO PANEL AND COAX CABLING IN ORDER TO BE RELOCATED.
2. CONTRACTOR SHALL DISCONNECT AND PROTECT EXISTING CABLES FOR RECONNECTION TO NEW MCC.
3. CONTRACTOR SHALL DISCONNECT AND PROTECT EXISTING CABLES CONNECTED TO THE EXISTING PANEL LP FOR RECONNECTION TO NEW PANELBOARD.

3	240/120 VOLTS 1 PHASE, 3 WIRE					EXISTING PANEL LP MAIN BREAKER 060A 2P										TYPE: NEMA 1 MOUNT: INTEGRAL TO MCC				
	DESCRIPTION		WIRE	TRIP	POLE	No.	VOLT-AMPERES		VOLT-AMPERES		No.	POLE	TRIP	WIRE	DESCRIPTION					
CEILING LIGHTING		EXISTING	1	20	1	800			500		2	1	20	EXISTING	RECEPT N.W. & MAGMETER					
CEILING LIGHTING		EXISTING	1	20	3		800			1,000	4	1	20	EXISTING	OUTSIDE LIGHTS ON PHOTO CELL					
HEAT N.W.		EXISTING	1	20	5	500			800		6	1	20	EXISTING	RECEPT S.E. & FAN CONTROL					
MAIN		EXISTING	60	2	7				800	8	1	20	EXISTING	CONTROL PANEL & RADIO						
					9			500		10	1	20	EXISTING	HEAT S.E.						
SPACE					11			1,500			12				SPACE					
NOTES: *10KAIC						TOTAL		1,300	2,300	1,800	1,800	TOTAL				TOTAL LOAD (AMPS)				
								PHASE TOTAL		TOTAL LOAD						30.0				
						3,100		4,100	7,200								50.0%			

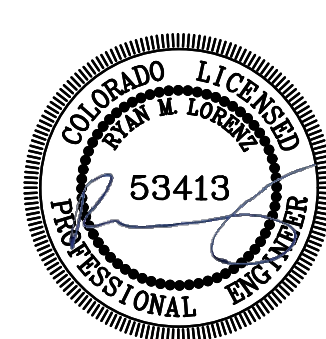




Dewberry
Dewberry Engineers Inc.
990 S. BROADWAY, SUITE 400
Denver, Colorado 80209
(303) 825-1802

LINE IS 2 INCHES
AT FULL SIZE
(IF NOT 2"=SCALE ACCORDINGLY)

DRAWING: ESL191615-03
DRAWN: RML
DESIGNED: RML
CHECKED: BRW



PROFESSIONAL ENGINEER
53413
4/15/2026

APPROVED

DATE:

REVISIONS				
REV.	DESCRIPTION	BY	DATE	APP.
0	ISSUED FOR CONSTRUCTION	RML	4/15/26	BRW

CITY OF GRAND JUNCTION

RIDGES PRIMARY PUMP STATION MCC REPLACEMENT

ELECTRICAL

ONE-LINE DIAGRAM

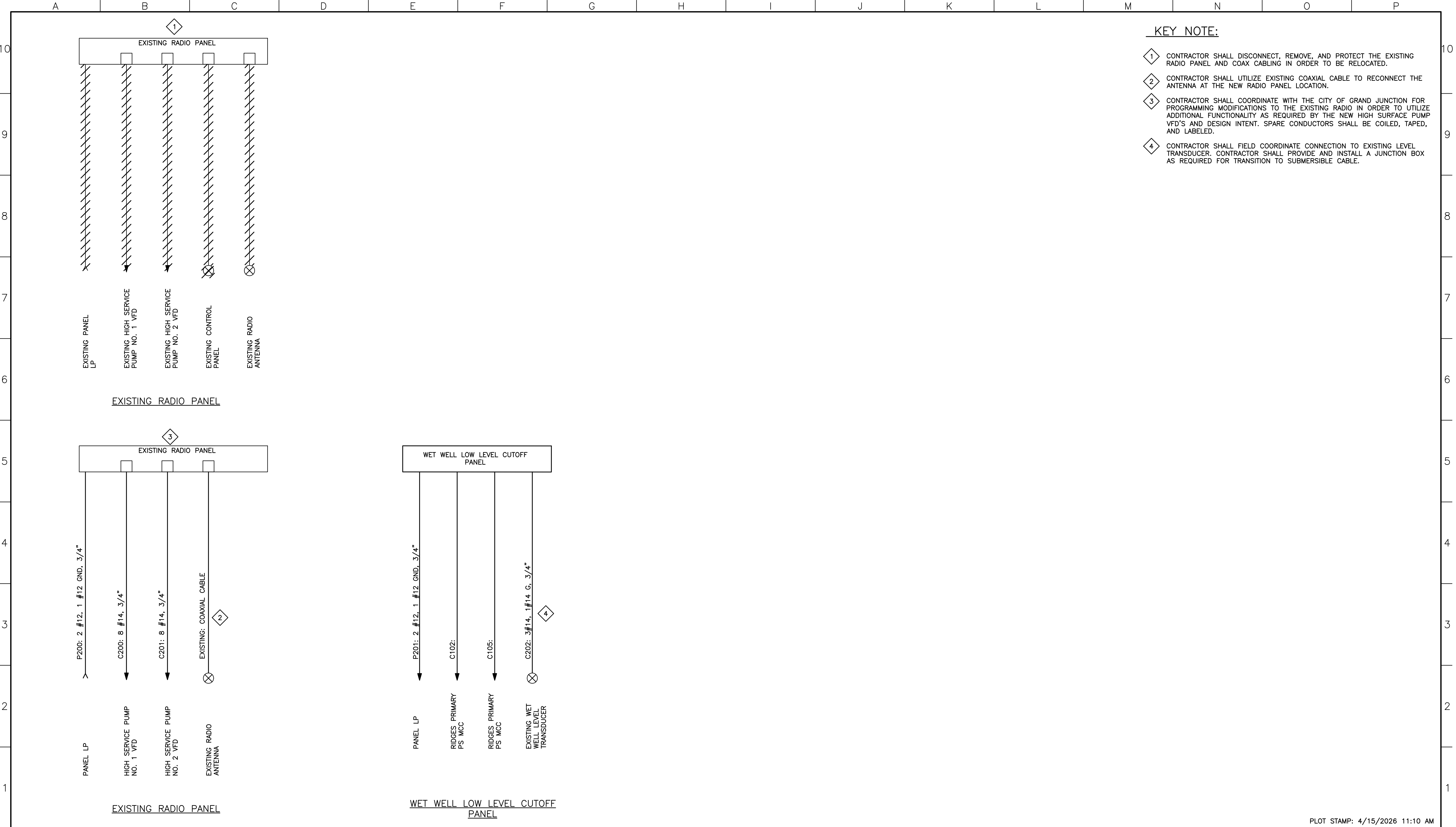
DATE: 2/16/26

PROJECT NUMBER: 50191615

REVISION NO. 1

DRAWING NUMBER E-3

SHEET NUMBER



- KEY NOTE:**
- 1 CONTRACTOR SHALL DISCONNECT, REMOVE, AND PROTECT THE EXISTING RADIO PANEL AND COAX CABLING IN ORDER TO BE RELOCATED.
 - 2 CONTRACTOR SHALL UTILIZE EXISTING COAXIAL CABLE TO RECONNECT THE ANTENNA AT THE NEW RADIO PANEL LOCATION.
 - 3 CONTRACTOR SHALL COORDINATE WITH THE CITY OF GRAND JUNCTION FOR PROGRAMMING MODIFICATIONS TO THE EXISTING RADIO IN ORDER TO UTILIZE ADDITIONAL FUNCTIONALITY AS REQUIRED BY THE NEW HIGH SURFACE PUMP VFD'S AND DESIGN INTENT. SPARE CONDUCTORS SHALL BE COILED, TAPED, AND LABELED.
 - 4 CONTRACTOR SHALL FIELD COORDINATE CONNECTION TO EXISTING LEVEL TRANSDUCER. CONTRACTOR SHALL PROVIDE AND INSTALL A JUNCTION BOX AS REQUIRED FOR TRANSITION TO SUBMERSIBLE CABLE.



Dewberry
Dewberry Engineers Inc.
990 S. BROADWAY, SUITE 400
Denver, Colorado 80209
(303) 825-1802

LINE IS 2 INCHES
AT FULL SIZE
(IF NOT 2"=SCALE ACCORDINGLY)

DRAWING ESL191615-04
DRAWN RML
DESIGNED RML
CHECKED BRW



APPROVED

DATE:

REVISIONS				
REV.	DESCRIPTION	BY	DATE	APP.
0	ISSUED FOR CONSTRUCTION	RML	4/15/26	BRW

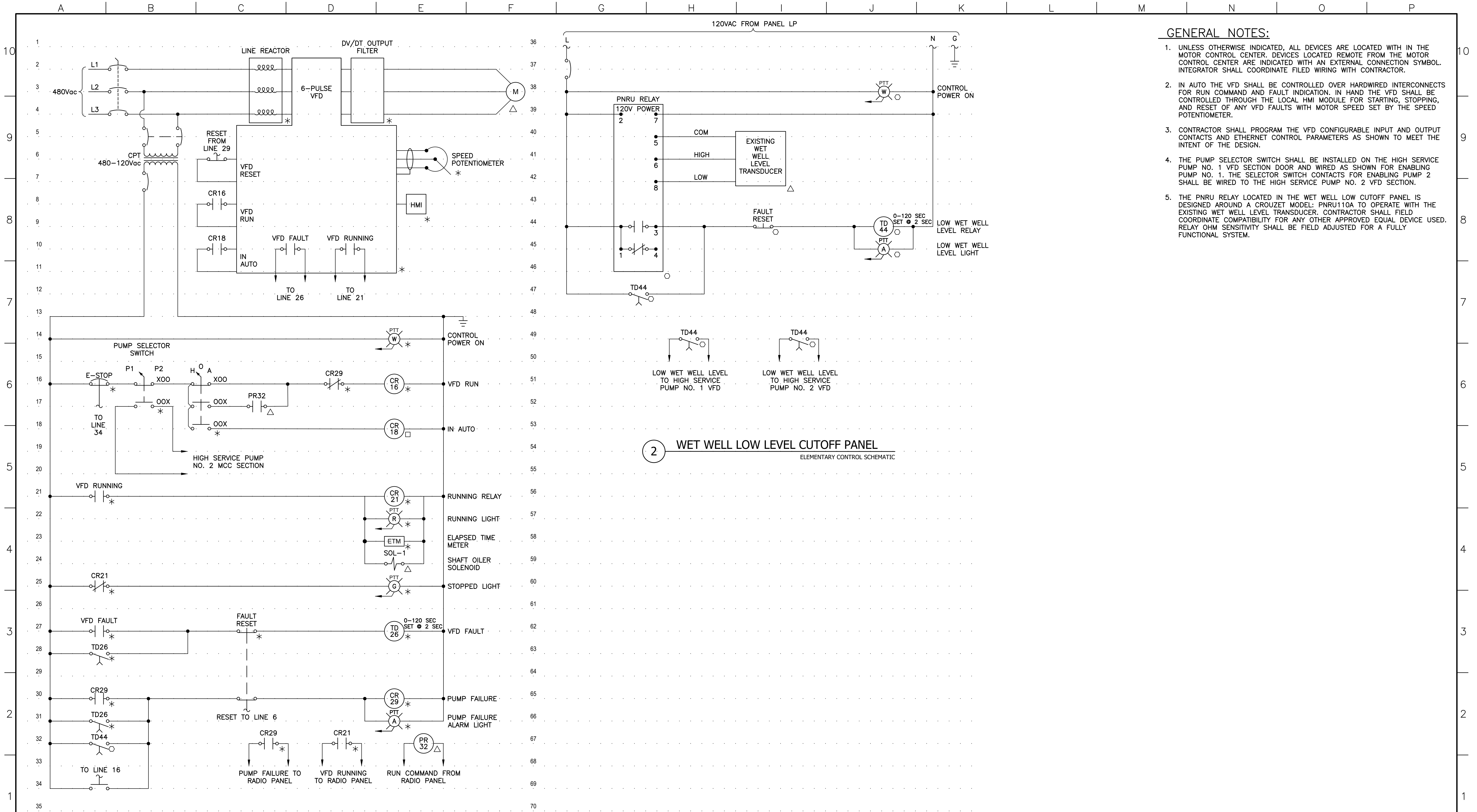
CITY OF GRAND JUNCTION

RIDGES PRIMARY PUMP STATION MCC REPLACEMENT

ELECTRICAL

EQUIPMENT ONE-LINE DIAGRAMS

DATE: 2/16/26
PROJECT NUMBER: 50191615
REVISION NO. 0
DRAWING NUMBER E-4
SHEET NUMBER



GENERAL NOTES:

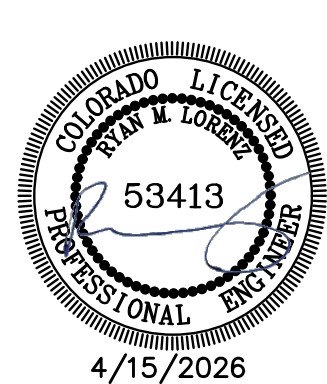
- UNLESS OTHERWISE INDICATED, ALL DEVICES ARE LOCATED WITH IN THE MOTOR CONTROL CENTER. DEVICES LOCATED REMOTE FROM THE MOTOR CONTROL CENTER ARE INDICATED WITH AN EXTERNAL CONNECTION SYMBOL. INTEGRATOR SHALL COORDINATE FILED WIRING WITH CONTRACTOR.
- IN AUTO THE VFD SHALL BE CONTROLLED OVER HARDWIRED INTERCONNECTS FOR RUN COMMAND AND FAULT INDICATION. IN HAND THE VFD SHALL BE CONTROLLED THROUGH THE LOCAL HMI MODULE FOR STARTING, STOPPING, AND RESET OF ANY VFD FAULTS WITH MOTOR SPEED SET BY THE SPEED POTENTIOMETER.
- CONTRACTOR SHALL PROGRAM THE VFD CONFIGURABLE INPUT AND OUTPUT CONTACTS AND ETHERNET CONTROL PARAMETERS AS SHOWN TO MEET THE INTENT OF THE DESIGN.
- THE PUMP SELECTOR SWITCH SHALL BE INSTALLED ON THE HIGH SERVICE PUMP NO. 1 VFD SECTION DOOR AND WIRED AS SHOWN FOR ENABLING PUMP NO. 1. THE SELECTOR SWITCH CONTACTS FOR ENABLING PUMP 2 SHALL BE WIRED TO THE HIGH SERVICE PUMP NO. 2 VFD SECTION.
- THE PNRU RELAY LOCATED IN THE WET WELL LOW CUTOFF PANEL IS DESIGNED AROUND A CROUZET MODEL: PNRU110A TO OPERATE WITH THE EXISTING WET WELL LEVEL TRANSDUCER. CONTRACTOR SHALL FIELD COORDINATE COMPATIBILITY FOR ANY OTHER APPROVED EQUAL DEVICE USED. RELAY OHM SENSITIVITY SHALL BE FIELD ADJUSTED FOR A FULLY FUNCTIONAL SYSTEM.

2 WET WELL LOW LEVEL CUTOFF PANEL
ELEMENTARY CONTROL SCHEMATIC

PLOT STAMP: 4/15/2026 11:10 AM

Dewberry
Dewberry Engineers Inc.
990 S. BROADWAY, SUITE 400
Denver, Colorado 80209
(303) 825-1802

LINE IS 2 INCHES
AT FULL SIZE
(IF NOT 2"=SCALE ACCORDINGLY)
DRAWING ESL191615-05
DRAWN RML
DESIGNED RML
CHECKED BRW



APPROVED

DATE:

REVISIONS				
REV.	DESCRIPTION	BY	DATE	APP.
0	ISSUED FOR CONSTRUCTION	RML	4/15/26	BRW

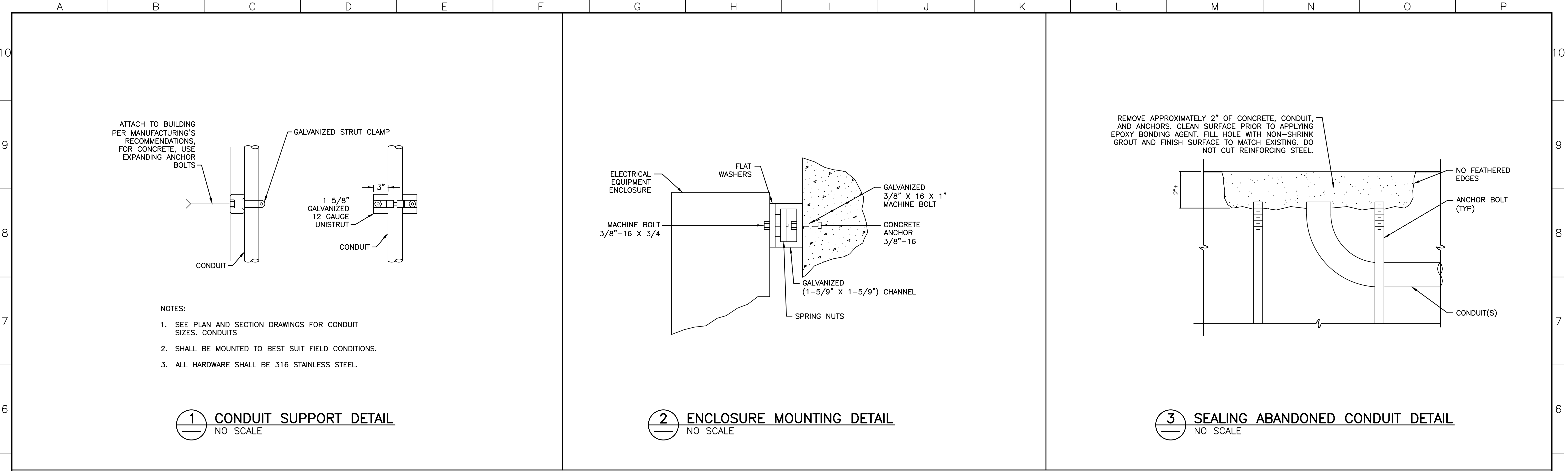
CITY OF GRAND JUNCTION

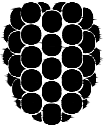
RIDGES PRIMARY PUMP STATION MCC
REPLACEMENT

ELECTRICAL

SCHEMATIC

DATE: 2/16/26
PROJECT NUMBER: 50191615
REVISION NO. 0
DRAWING NUMBER E-5
SHEET NUMBER





Dewberry[®]

Dewberry Engineers Inc.

990 S. BROADWAY, SUITE 400
Denver, Colorado 80209
(303) 825-1802

LINE IS 2 INCHES
AT FULL SIZE
(IF NOT 2"=SCALE ACCORDINGLY)

DRAWING EDT68844-01
DRAWN RML
DESIGNED RML
CHECKED BRW



APPROVED

DATE:

REVISIONS				
REV.	DESCRIPTION	BY	DATE	APP.
0	ISSUED FOR CONSTRUCTION	RML	4/15/26	BRW

CITY OF GRAND JUNCTION

RIDGES PRIMARY PUMP STATION MCC REPLACEMENT

ELECTRICAL

DETAILS

DATE: 2/16/26

PROJECT NUMBER: 50191615

REVISION NO. 0

DRAWING NUMBER **ED-1**

SHEET NUMBER