

November 9, 2023

**RE: GENERATOR PROJECTS AT WATER TREATMENT PLANT AND
BOOSTER STATIONS
LOWER BRULE RURAL WATER SYSTEM
LOWER BRULE, SOUTH DAKOTA
SPN #16196**

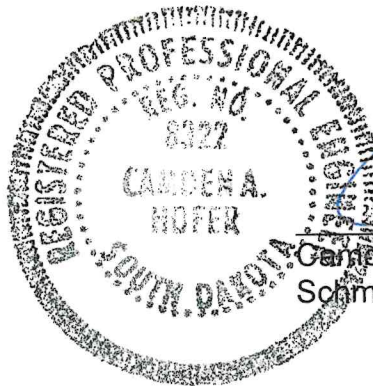
BID LETTING: THURSDAY, NOVEMBER 16, 2023 @ 10:00 AM

ADDENDUM NUMBER 1

The following modifications are to be made to the specifications for the Project.

Refer to the Addendum by West Plains Engineering.

All other items of the plans and specifications remain unchanged.



Camden A. Hofer, PE

Camden A. Hofer, Project Engineer
Schmucker, Paul, Nohr & Associates

The undersigned hereby acknowledges receipt of Addendum Number 1 to the plans and specifications for the *GENERATOR PROJECTS AT WATER TREATMENT PLANT AND BOOSTER STATIONS*.

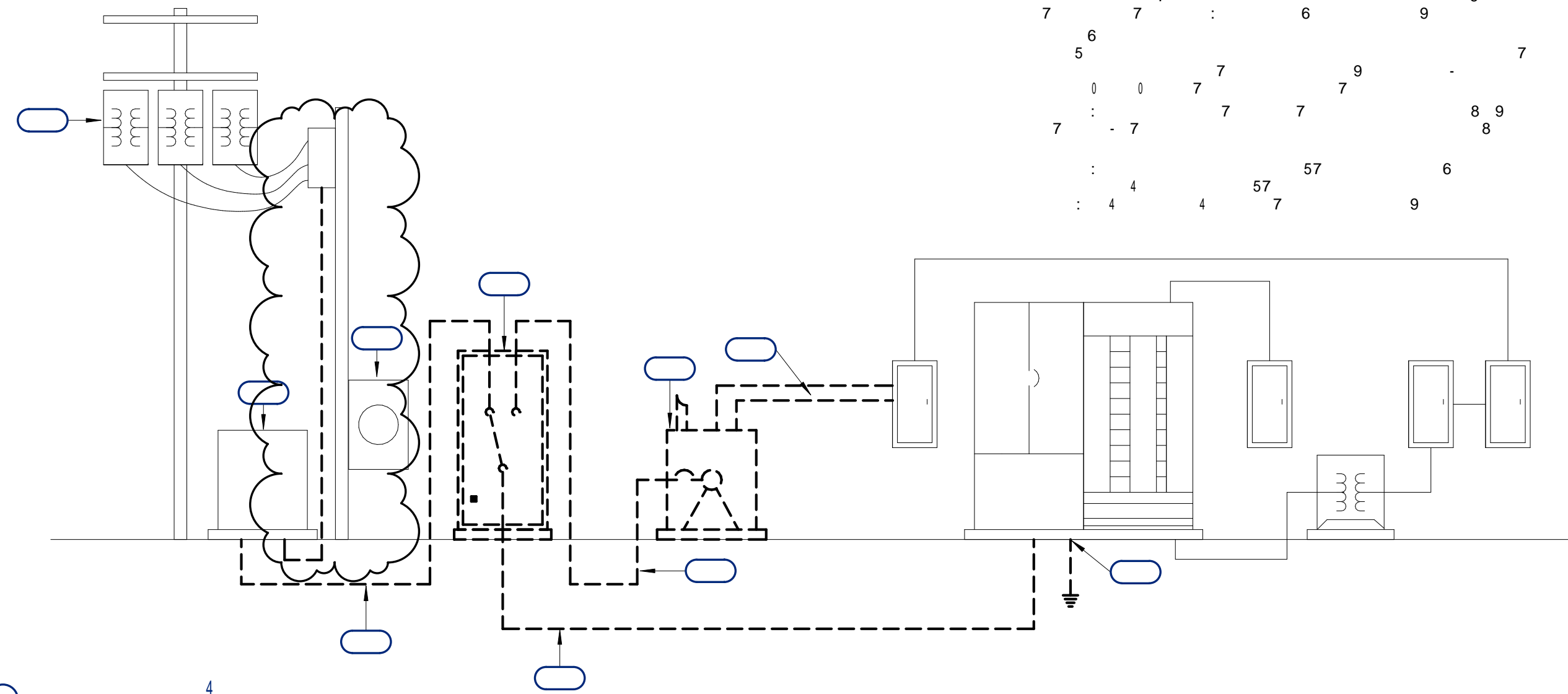
FIRM NAME _____
BY _____
TITLE _____
DATE _____

ATTACH THIS SIGNED ADDENDUM NO. 1 TO THE BID FORM WHEN SUBMITTING.

ELECTRICAL SPECIFIC NOTES

#

6 4 7 7 8 9
 6 4 7 7 8
 6 7 8
 6 7 8 7 9 4 7
 6 7 9
 7 4 7 8
 6 7 9 7 9 6 7 8
 6 7 9 7 6 9 7 8
 : 7 4
 6 7 9 7 6 9 7 8
 6 : 6 7 9 6 7
 7 7 7 : 6 9 6 7
 5 6 7 9 - 7 9
 0 0 7 7 7 9 8 9 8
 7 : - 7 7 7 8 9 8
 : 4 4 57 57 6
 : 4 4 4 7 9



0 1 2 3 4 1

Plan Horiz. Scale:	0 1 2 3 4 1
Drawn By:	5
Checked By:	5
Date:	09/06/2023
Project No.:	16196
File Name:	16196-LBRWS WTP Generator

Project Name:
 !"#
 # \$ % & ! " !"
 ! " ' " (! "
 !) ##&"
 " ! * # &
 Located in:
 # + , (-
 # , " . ! / # !

Sheet Name:
 WTP POWER RISER
 DIAGRAM DEMO

Sheet Number:	Total Sheets:
E130	13

WPE# BS22079

WPE WEST PLAINS ENGINEERING, INC.

4609 SOUTH TECHLINK CIRCLE • SIOUX FALLS, SD 57106
 PHONE: (605) 362-3753 • FAX: (605) 362-3759
 WWW.WESTPLAINSENGINEERING.COM
 RAPID CITY, SD • SIOUX FALLS, SD • CASPER, WY • CEDAR RAPIDS, IA

ELECTRICAL SPECIFIC NOTES

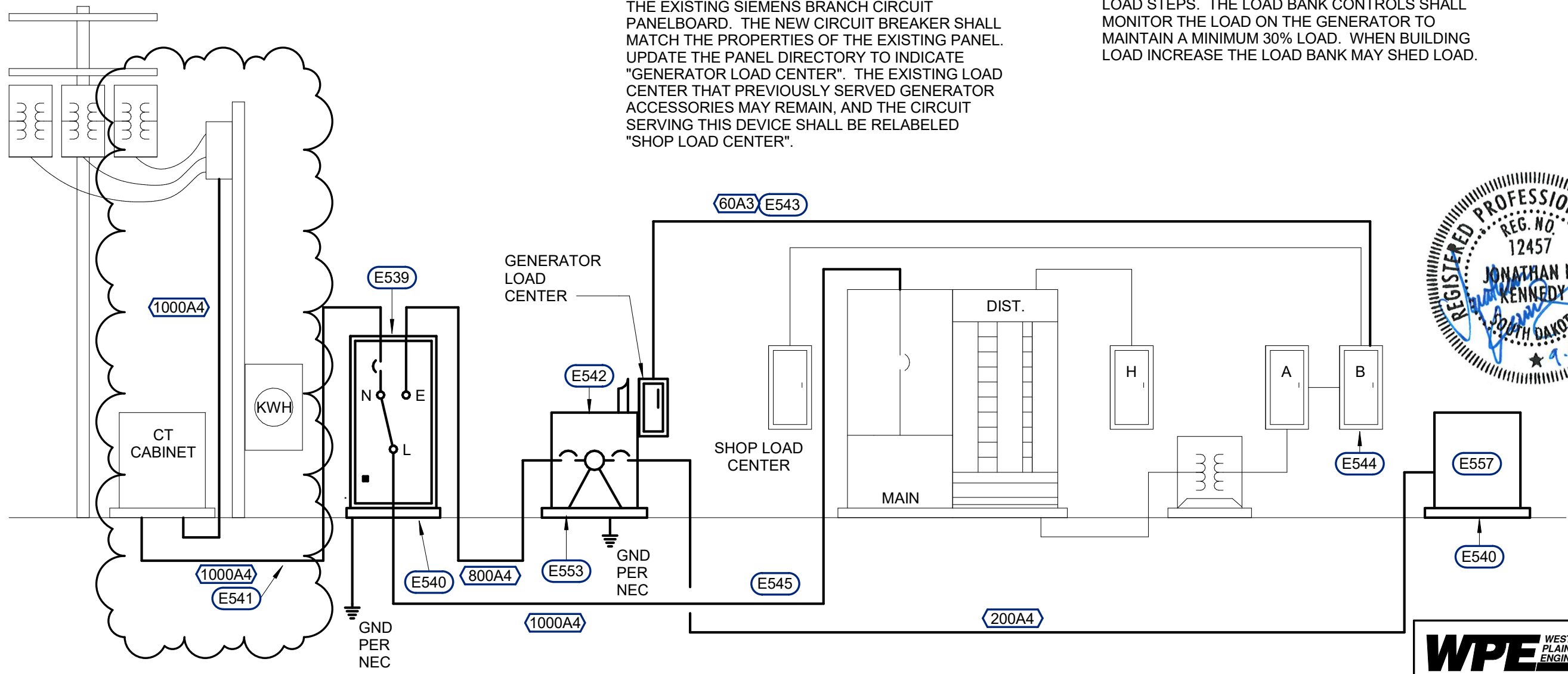
- E539 PROVIDE A NEW 1,000-AMP, 3-POLE, 480-VOLT OPEN TRANSITION, SERVICE-ENTRANCE-RATED AUTOMATIC TRANSFER SWITCH IN A NEMA 3R DOOR-IN-DOOR STYLE ENCLOSURE. TRANSFER SWITCH SHALL HAVE A MINIMUM 65,000 AIC RATING.
- E540 PROVIDE A NEW 4-INCH TALL CONCRETE HOUSEKEEPING PAD THAT EXTENDS NO LESS THAN 3-INCHES BEYOND THE PERIMETER OF THE EQUIPMENT.
- E541 NEW CONDUCTORS SHALL BE PROVIDED FROM THE PAD-MOUNTED UTILITY CT CABINET TO THE NEW PAD-MOUNTED ATS. COORDINATE THE INSTALLATION WITH THE ELECTRIC UTILITY. THE NEW CONDUCTORS SHALL BE INSTALLED UNDERGROUND IN RACEWAY. COORDINATE EXACT ROUTING WITH THE OWNER AND THE CIVIL ENGINEER PRIOR TO ROUGH-IN.

ELECTRICAL SPECIFIC NOTES

- E542 PROVIDE A NEW 500KW, 480-VOLT 3-PHASE, 4-WIRE ENGINE-GENERATOR IN AN OUTDOOR-RATED, SOUND-ATTENUATED REACH-IN STYLE ENCLOSURE. PROVIDE WITH A SUB-BASE DIESEL FUEL TANK WITH A MINIMUM OF 24-HOURS OF CAPACITY AT 100% LOAD. PROVIDE WITH AN INTEGRAL ELECTRIC LOAD CENTER (100-AMP, 1-PHASE RATED) AND FACTORY-WIRED TO ALL ACCESSORY DEVICES SUCH AS, BUT NOT LIMITED TO THE BATTERY CHARGER, ENGINE BLOCK HEATER, MOTORIZED INTAKE LOUVERS, AND INTERNAL ENCLOSURE SPACE HEATER. PROVIDE THE GENERATOR WITH AN 800-AMP, 100% RATED, ADJUSTABLE ELECTRONIC TRIP (LONG-TIME, SHORT-TIME, AND INSTANTANEOUS) PRIMARY CIRCUIT BREAKER, AND A SECOND OUTPUT CIRCUIT BREAKER (200-AMPS, 100% RATED, THERMAL-MAGNETIC) FOR CONNECTION OF THE PERMANENT LOAD BANK. LABEL BOTH CIRCUIT BREAKERS.
- E543 THE CONTRACTOR SHALL PROVIDE A NEW FEEDER CIRCUIT TO THE GENERATOR LOAD CENTER.
- E544 PROVIDE A 60-AMP, 2-POLE CIRCUIT BREAKER IN THE EXISTING SIEMENS BRANCH CIRCUIT PANELBOARD. THE NEW CIRCUIT BREAKER SHALL MATCH THE PROPERTIES OF THE EXISTING PANEL. UPDATE THE PANEL DIRECTORY TO INDICATE "GENERATOR LOAD CENTER". THE EXISTING LOAD CENTER THAT PREVIOUSLY SERVED GENERATOR ACCESSORIES MAY REMAIN, AND THE CIRCUIT SERVING THIS DEVICE SHALL BE RELABELLED "SHOP LOAD CENTER".

ELECTRICAL SPECIFIC NOTES

- E545 THE NEW NORMAL-POWER FEEDER FROM THE ATS TO THE EXISTING MAIN SWITCHBOARD MAY BE RUN INSIDE THE BUILDING, ACROSS THE CEILING OF THE EXISTING SHOP SPACE. THE CONTRACTOR SHALL SEAL ALL PENETRATIONS THROUGH THE EXTERIOR BUILDING ENVELOPE. THE NEW FEEDER MAY CONNECT TO THE EXISTING SWITCHBOARD FROM ABOVE. THERE IS AN EXISTING GYP BOARD CEILING IN THE ELECTRICAL ROOM. THE CONTRACTOR MAY CUT THE CEILING AS REQUIRED TO INSTALL NEW FEEDER CONDUITS, AND SHALL PATCH THE CEILING UPON COMPLETION.
- E553 PROVIDE A NEW 4-INCH TALL REINFORCED CONCRETE HOUSEKEEPING PAD THAT EXTENDS NO LESS THAN 3-INCHES BEYOND THE PERIMETER OF THE EQUIPMENT. THE REBAR REINFORCED CONCRETE PAD SHALL BE SIZED FOR THE WEIGHT OF THE EQUIPMENT WITH ALL FLUIDS INCLUDED.
- E557 PROVIDE A 150KW, 480-VOLT, 3-PHASE PERMANENTLY-INSTALLED LOAD BANK WITH INTEGRAL MAIN CIRCUIT BREAKER AND INTERNAL CONTROLS. THE LOAD BANK SHALL BE CONSTRUCTED TO HAVE A MINIMUM OF THREE LOAD STEPS. THE LOAD BANK CONTROLS SHALL MONITOR THE LOAD ON THE GENERATOR TO MAINTAIN A MINIMUM 30% LOAD. WHEN BUILDING LOAD INCREASE THE LOAD BANK MAY SHED LOAD.



1 ELECTRICAL ONE-LINE DIAGRAM
 1/4" = 1'-0"

Plan Horiz. Scale:	1/4" = 1'-0"
Drawn By:	JK
Checked By:	JK
Date:	09/06/2023
Project No.:	16196
File Name:	16196-LBRWS WTP Generator

Project Name:
Generator Projects at Water Treatment Plant and Booster Stations
 Located in:
Lower Brule, South Dakota

WPE# BS22079
WPE WEST PLAINS ENGINEERING, INC.
 4609 SOUTH TECHLINK CIRCLE • SIOUX FALLS, SD 57106
 PHONE: (605) 362-3753 • FAX: (605) 362-3759
 WWW.WESTPLAINSENGINEERING.COM
 RAPID CITY, SD • SIOUX FALLS, SD • CASPER, WY • CEDAR RAPIDS, IA

Sheet Name:
 WTP POWER RISER
 DIAGRAM NEW

Sheet Number:	Total Sheets:
E140	13