

BILL OF WIRE

PROJECT ITEM:

BENCHMARK: 10G

1898303

BERKELEY LAKE

OP NUMBER: 10548761

| CIRCUIT CIRCUIT TYPE | FROM REFERENCE | TO REFERENCE | FUNCTION VOLTAGE | #CABLES #CONDS | SIZE LENGTH | INSULATION REMARKS/REVISION |
|----------------------------------|--|-------------------------------|---------------------|-------------------|----------------|--------------------------------|
| 8-192/COM1 COMMUNICATIONS | SIA PANEL #8 D140-004 | 25KV PCB #192 D140-004 | RELOCATE DC | 1 4 | #24 | SHIELDED WAS 192/COM1 |
| 8-442/COM1 COMMUNICATIONS | SIA PANEL #8 D140-004 | 25KV PCB #442 D140-004 | RELOCATE DC | 1 4 | #24 | SHIELDED WAS 442/COM1 |
| 8-552/COM1 COMMUNICATIONS | SIA PANEL #8 D140-004 | 25KV PCB #552 D140-004 | RELOCATE DC | 1 4 | #24 | SHIELDED WAS 552/COM1 |
| 8-662/COM1 COMMUNICATIONS | SIA PANEL #8 D140-004 | 25KV PCB #662 D140-004 | RELOCATE DC | 1 4 | #24 | SHIELDED WAS 662/COM1 |
| 5-TS/COM1 COMMUNICATIONS | SWITCHBOARD PANEL #5 D129 (RETIRED) | RADIO PANEL D129 (RETIRED) | REMOVE DC | | | |
| DAQ-TS/COM1 COMMUNICATIONS | SUPV. REMOTE CAB. H10 | TERMINAL SERVER D127 | REMOVE DC | | | |
| RTU-RADIO/COM1 COMMUNICATIONS | SUPV. REMOTE CAB. D129 (RETIRED) | RADIO PANEL D129 (RETIRED) | REMOVE DC | | | |
| RTU-RADIO/COM2 COMMUNICATIONS | SUPV. REMOTE CAB. D129 (RETIRED) | RADIO PANEL D129 (RETIRED) | REMOVE DC | | | |
| RTU-RADIO/COM3 COMMUNICATIONS | SUPV. REMOTE CAB. D129 (RETIRED) | RADIO PANEL D129 (RETIRED) | REMOVE DC | | | |
| LTC-RAD/COM1 COMMUNICATIONS | BANK B POTENTIAL J.B. D63 | RADIO PANEL D140-004 | RENAME DC | 1 4 | #24 | SHIELDED WAS RTU-RADIO/COM3 |

DATE: 11/15/2022

LISTED: MCCULLOUGH, JM

FACILITY ID: 15-364-BW REV 00

BILL OF WIRE

PROJECT ITEM:

BENCHMARK: 20A

2003301

LIVE OAK

OP NUMBER: 11052055

| CIRCUIT CIRCUIT TYPE | FROM REFERENCE | TO REFERENCE | FUNCTION VOLTAGE | #CABLES #CONDS | SIZE LENGTH | INSULATION REMARKS/REVISION |
|-------------------------------|---------------------------|---------------------------|---------------------|-------------------|----------------|--------------------------------|
| 1-4/EDC DC SUPPLY | PANEL #1 D-32 | DME PANEL #4 D-116-002 | INSTALL 125 DC | 1 2 | #10 20 | 600V PIPJ |
| 2-16/COM2 COMMUNICATIONS | SIA PANEL #2 D-36 | PANEL #16 D-36 | INSTALL DC | 1 8 | #24 35 | SHIELDED CAT5 CABLE |
| 2-4/SAL1 SUPERVISORY ALARM | SIA PANEL #2 D-35 | DME PANEL #4 D-116-002 | INSTALL 125 DC | 1 2 | #16 20 | SHIELDED |
| 2-4/SCDC DC SUPPLY | SIA PANEL #2 D-35 | DME PANEL #4 D-116-002 | INSTALL 125 DC | 1 2 | #10 20 | 600V PIPJ |
| 4/AC AC SUPPLY | CNTL HOUSE AC PANEL | DME PANEL #4 D-116-002 | INSTALL 120 AC | 1 2 | #10 20 | 600V PIPJ |
| 4-14/ER1 DME DIGITAL | DME PANEL #4 D-116-002 | PANEL #14 D-107 | INSTALL 125 DC | 1 8 | #18 35 | 600 SHLD |
| 4-15/ER1 DME DIGITAL | DME PANEL #4 D-116-002 | PANEL #15 D-62 | INSTALL 125 DC | 1 8 | #18 30 | 600 SHLD |
| 4-16/DFR1 DME ANALOG | DME PANEL #4 D-116-002 | PANEL #16 D-68 | INSTALL AC | 1 12 | #18 30 | 600 SHLD |
| 4-16/ER1 DME DIGITAL | DME PANEL #4 D-116-002 | PANEL #16 D-68 | INSTALL 125 DC | 1 8 | #18 30 | 600 SHLD |
| 4-17/ER1 DME DIGITAL | DME PANEL #4 D-116-002 | PANEL #17 D-72 | INSTALL 125 DC | 1 8 | #18 25 | 600 SHLD |
| 4-6/DFR1 DME ANALOG | DME PANEL #4 D-116-002 | PANEL #6 D-43 | INSTALL AC | 1 12 | #18 25 | 600 SHLD |
| 4-6/ER1 DME DIGITAL | DME PANEL #4 D-116-002 | PANEL #6 D-43 | INSTALL 125 DC | 1 8 | #18 25 | 600 SHLD |
| 4-7/ER1 DME DIGITAL | DME PANEL #4 D-116-002 | PANEL #7 D-50 | INSTALL 125 DC | 1 8 | #18 20 | 600 SHLD |
| 4-8/DFR1 DME ANALOG | DME PANEL #4 D-116-002 | PANEL #8 D-55 | INSTALL AC | 1 12 | #18 20 | 600 SHLD |

| CIRCUIT CIRCUIT TYPE | FROM REFERENCE | TO REFERENCE | FUNCTION VOLTAGE | #CABLES #CONDS | SIZE LENGTH | INSULATION REMARKS/REVISION |
|-----------------------------|---------------------------|---------------------|---------------------|-------------------|----------------|--------------------------------|
| 4-8/ER1 DME DIGITAL | DME PANEL #4 D-116-002 | PANEL #8 D-55 | INSTALL 125 DC | 1 8 | #18 20 | 600 SHLD |
| 4-RAD/COM COMMUNICATIONS | DME PANEL #4 D-36 | ORBIT RADIO D-36 | INSTALL DC | 1 8 | #24 20 | SHIELDED CAT5 CABLE |

BILL OF WIRE

PROJECT ITEM:

BENCHMARK: 40H

1403346

METTER PRIMARY

OP NUMBER: 10581855

| CIRCUIT CIRCUIT TYPE | FROM REFERENCE | TO REFERENCE | FUNCTION VOLTAGE | #CABLES #CONDS | SIZE LENGTH | INSULATION REMARKS/REVISION |
|-------------------------|----------------------|-----------------------------------|---------------------|-------------------|----------------|--------------------------------|
| 1/DC-1 | PANEL 1 D-91-002 | SS. INDOOR DC CABINET D-99-001 | INSTALL | 1 2 | #10 60 | 600V PIPJ |
| 10/DC-1 | PANEL 10 D-96-002 | SS. INDOOR DC CABINET D-99-001 | INSTALL | 1 2 | #10 60 | 600V PIPJ |
| 10/DC-2 | PANEL 10 D-96-002 | SS. INDOOR DC CABINET D-99-001 | INSTALL | 1 2 | #10 60 | 600V PIPJ |
| 10/DC-3 | PANEL 10 D-96-002 | SS. INDOOR DC CABINET D-99-001 | INSTALL | 1 2 | #10 60 | 600V PIPJ |
| 10-1T/400R1 | PANEL 10 D-96-002 | PANEL 1T D-97-002 | INSTALL | 1 4 | #10 35 | 600V PIPJ |
| 10-1T/400R2 | PANEL 10 D-96-002 | PANEL 1T D-97-002 | INSTALL | 1 4 | #10 35 | 600V PIPJ |
| 10-1T/CAP1RN | PANEL 10 D-96-002 | PANEL 1T D-97-002 | INSTALL | 1 2 | #10 60 | 600V PIPJ |
| 10-1T/PR | PANEL 10 D-96-002 | PANEL 1T D-97-002 | INSTALL | 1 4 | #10 35 | 600V PIPJ |
| 10-400/COM1 | PANEL 10 D-94-004 | PCB 400 D-94-004 | INSTALL | 1 4 | 200M 270 | FIBER OPTIC |
| 1-1T/152C1 | PANEL 1 D-91-002 | PANEL 1T D-97-002 | INSTALL | 1 4 | #10 65 | 600V PIPJ |
| 1-1T/152C2 | PANEL 1 D-91-002 | PANEL 1T D-97-002 | INSTALL | 1 4 | #10 60 | 600V PIPJ |
| 1-1T/152C3 | PANEL 1 D-91-002 | PANEL 1T D-97-002 | INSTALL | 1 2 | #10 60 | 600V PIPJ |
| 1-1T/152R1 | PANEL 1 D-91-002 | PANEL 1T D-97-002 | INSTALL | 1 4 | #10 60 | 600V PIPJ |
| 1-2/C1 | PANEL 1 D-91-002 | PANEL 2 D-92-002 | INSTALL | 1 2 | #10 25 | 600V PIPJ |

BILL OF WIRE

PROJECT ITEM:

BENCHMARK: 40H

1403346

METTER PRIMARY

OP NUMBER: 10581855

| CIRCUIT CIRCUIT TYPE | FROM REFERENCE | TO REFERENCE | FUNCTION VOLTAGE | #CABLES #CONDS | SIZE LENGTH | INSULATION REMARKS/REVISION |
|-------------------------|------------------------|-----------------------------------|---------------------|-------------------|----------------|--------------------------------|
| 1-2/P11 | PANEL 1 D-91-002 | PANEL 2 D-92-002 | INSTALL | 1 4 | #10 30 | 600V PIPJ |
| 142REG/COM1 | PANEL 8 D-94-004 | PCB 112142 D-94-004 | INSTALL | 1 4 | #24 265 | SHIELDED |
| 142REG-T.O./COM1 | T.O. PANEL D-94-004 | PCB 112142 D-94-004 | INSTALL | 1 4 | #24 265 | SHIELDED |
| 152/AC | B4152 XXXX | SS. INDOOR AC CABINET D-99-003 | INSTALL | 1 4 | #10 245 | 600V PIPJ |
| 1-8/COM1 | PANEL 1 D-94-004 | PANEL 8 D-94-004 | INSTALL | 1 4 | #24 60 | SHIELDED |
| 1-8/SAL1 | PANEL 1 D-91-002 | PANEL 8 D-94-002 | INSTALL | 1 4 | #10 40 | 600V PIPJ |
| 1-8/SDC | PANEL 1 D-91-002 | PANEL 8 D-94-002 | INSTALL | 1 2 | #10 60 | 600V PIPJ |
| 1-T.O./COM1 | PANEL 1 D-94-004 | T.O. PANEL D-94-004 | INSTALL | 1 4 | #24 60 | SHIELDED |
| 1T-10/400C1 | PANEL 1T D-97-002 | PANEL 10 D-96-002 | INSTALL | 1 4 | #10 35 | 600V PIPJ |
| 1T-10/400C2 | PANEL 1T D-97-002 | PANEL 10 D-96-002 | INSTALL | 1 4 | #10 35 | 600V PIPJ |
| 1T-10/400C3 | PANEL 1T D-97-002 | PANEL 10 D-96-002 | INSTALL | 1 4 | #10 35 | 600V PIPJ |
| 1T-10/400C4 | PANEL 1T D-97-002 | PANEL 10 D-96-002 | INSTALL | 1 4 | #10 35 | 600V PIPJ |
| 1T-152/C1 | PANEL 1T D-97-002 | B4152 XXXX | INSTALL | 1 4 | #10 235 | 600V PIPJ |
| 1T-152/C2 | PANEL 1T D-97-002 | B4152 XXXX | INSTALL | 1 4 | #10 235 | 600V PIPJ |

BILL OF WIRE

PROJECT ITEM:

BENCHMARK: 40H

1403346

METTER PRIMARY

OP NUMBER: 10581855

| CIRCUIT CIRCUIT TYPE | FROM REFERENCE | TO REFERENCE | FUNCTION VOLTAGE | #CABLES #CONDS | SIZE LENGTH | INSULATION REMARKS/REVISION |
|-------------------------|----------------------|---------------------|---------------------|-------------------|----------------|--------------------------------|
| 1T-152/C3 | PANEL 1T D-97-002 | B4152 XXXX | INSTALL | 1 2 | #10 250 | 600V PIPJ |
| 1T-152/C4 | PANEL 1T D-97-002 | B4152 XXXX | INSTALL | 1 2 | #10 230 | 600V PIPJ |
| 1T-152/R1 | PANEL 1T D-97-002 | B4152 XXXX | INSTALL | 1 4 | #10 235 | 600V PIPJ |
| 1T-152/R2 | PANEL 1T D-97-002 | B4152 XXXX | INSTALL | 1 4 | #10 235 | 600V PIPJ |
| 1T-176/P11 | PANEL 1T D-97-002 | B4176 XXXX | INSTALL | 1 4 | #10 155 | 600V PIPJ |
| 1T-2/152C1 | PANEL 1T D-97-002 | PANEL 2 D-92-002 | INSTALL | 1 2 | #10 60 | 600V PIPJ |
| 1T-2/746C4 | PANEL 1T D-97-002 | PANEL 2 D-92-002 | INSTALL | 1 2 | #10 60 | 600V PIPJ |
| 1T-2/C1 | PANEL 1T D-97-002 | PANEL 2 D-92-002 | INSTALL | 1 2 | #10 60 | 600V PIPJ |
| 1T-2/C2 | PANEL 1T D-97-002 | PANEL 2 D-92-002 | INSTALL | 1 4 | #10 60 | 600V PIPJ |
| 1T-2/C3 | PANEL 1T D-97-002 | PANEL 9 D-92-002 | INSTALL | 1 2 | #10 60 | 600V PIPJ |
| 1T-400/C1 | PANEL 1T D-97-002 | 112400 XXXX | INSTALL | 1 4 | #10 220 | 600V PIPJ |
| 1T-400/C2 | PANEL 1T D-97-002 | 112400 XXXX | INSTALL | 1 4 | #10 220 | 600V PIPJ |
| 1T-400/C3 | PANEL 1T D-97-002 | 112400 XXXX | INSTALL | 1 4 | #10 220 | 600V PIPJ |
| 1T-400/C4 | PANEL 1T D-97-002 | 112400 XXXX | INSTALL | 1 4 | #10 220 | 600V PIPJ |

BILL OF WIRE

PROJECT ITEM:

BENCHMARK: 10G

1830701

LAURENS COUNTY SVC

WORKORDER: 298116

| CIRCUIT CIRCUIT TYPE | FROM REFERENCE | TO REFERENCE | FUNCTION VOLTAGE | #CABLES #CONDS | SIZE LENGTH | INSULATION REMARKS/REVISION |
|---------------------------------------|----------------------|------------------------------|---------------------|-------------------|----------------|--------------------------------|
| 3/AC AC SUPPLY | SIA PANEL #3 D420 | A.C. PANEL #2 D302 | INSTALL 240 AC | 1 2 | #10 40 | 600V PIPJ |
| 3/COM1 COMMUNICATIONS | SIA PANEL #3 D420 | SIA PANEL #3 D420 | INSTALL DC | 1 8 | #24 5 | SHIELDED |
| 3/COM2 COMMUNICATIONS | SIA PANEL #3 D420 | SIA PANEL #3 D420 | INSTALL DC | 1 8 | #24 5 | SHIELDED |
| 3/COM4 COMMUNICATIONS | SIA PANEL #3 D420 | SIA PANEL #3 D420 | INSTALL DC | 1 8 | #24 5 | SHIELDED |
| 3-4/SAL SUPERVISORY ALARM | SIA PANEL #3 D420 | SWITCHBOARD PANEL #4 D380 | INSTALL 125 DC | 1 2 | #16 15 | SHIELDED |
| 3-4/SCDC DC SUPPLY | SIA PANEL #3 D420 | SWITCHBOARD PANEL #4 D380 | INSTALL 125 DC | 1 2 | #10 15 | 600V PIPJ |
| 3-ATS/SAL SUPERVISORY ALARM | SIA PANEL #3 D420 | AUTO TRANSFER SWITCH D302 | INSTALL 125 DC | 1 2 | #16 30 | SHIELDED |
| 3-ATS/SCDC DC SUPPLY | SIA PANEL #3 D420 | AUTO TRANSFER SWITCH D302 | INSTALL 125 DC | 1 2 | #10 30 | 600V PIPJ |
| 3-BC1/SAL SUPERVISORY ALARM | SIA PANEL #3 D420 | BATTERY CHARGER #1 D305 | INSTALL 125 DC | 1 4 | #16 35 | SHIELDED |
| 3-BC1/SCDC DC SUPPLY | SIA PANEL #3 D420 | BATTERY CHARGER #1 D305 | INSTALL 125 DC | 1 2 | #10 35 | 600V PIPJ |
| 3-BC2/SAL SUPERVISORY ALARM | SIA PANEL #3 D420 | BATTERY CHARGER #2 D305 | INSTALL 125 DC | 1 4 | #16 30 | SHIELDED |
| 3-BC2/SCDC DC SUPPLY | SIA PANEL #3 D420 | BATTERY CHARGER #2 D305 | INSTALL 125 DC | 1 2 | #10 30 | 600V PIPJ |
| 3-BK1/COM COMMUNICATIONS | SIA PANEL #3 D420 | 115/13.2KV BANK #1 D273 | INSTALL DC | 1 4 | 200M 300 | FIBER OPTIC |
| 3-BK2/COM COMMUNICATIONS | SIA PANEL #3 D420 | 115/13.2KV BANK #2 D275 | INSTALL DC | 1 4 | 200M 250 | FIBER OPTIC |

BILL OF WIRE

PROJECT ITEM:

1830701

LAURENS COUNTY SVC

BENCHMARK: 10G

WORKORDER: 298116

| CIRCUIT CIRCUIT TYPE | FROM REFERENCE | TO REFERENCE | FUNCTION VOLTAGE | #CABLES #CONDS | SIZE LENGTH | INSULATION REMARKS/REVISION |
|-------------------------|----------------------------|------------------------------|---------------------|-------------------|----------------|--------------------------------|
| BAL-SAL20 | DAQ PANEL H1 | MULTITEL PROBE #2 D305 | REMOVE | | | |
| LAL5 | DAQ PANEL H1 | LCP PANEL D363 | REMOVE | | | |
| LAL6 | DAQ PANEL H1 | LCP PANEL D363 | REMOVE | | | |
| RTU-RAD/COM1 | SWITCHBOARD PANEL #3 H1 | PERLE SERVER D417 | REMOVE | | | |
| SAL9 | DAQ PANEL H1 | AUTO TRANSFER SWITCH D302 | REMOVE | | | |
| 3-MC/SCDC DC SUPPLY | SIA PANEL #3 D420 | MARSHALLING CABINET D290 | RENAME 125 DC | | 40 | WAS 3SAL5 |

BILL OF WIRE

PROJECT ITEM:

BENCHMARK: 99SZ

1718923

LAWRENCEVILLE

WORKORDER: JM4504

| <i>CIRCUIT</i> <i>CIRCUIT TYPE</i> | <i>FROM</i> <i>REFERENCE</i> | <i>TO</i> <i>REFERENCE</i> | <i>FUNCTION</i> <i>VOLTAGE</i> | <i>#CABLES</i> <i>#CONDS</i> | <i>SIZE</i> <i>LENGTH</i> | <i>INSULATION</i> <i>REMARKS/REVISION</i> |
|---------------------------------------|-----------------------------------|-------------------------------|-----------------------------------|---------------------------------|------------------------------|---|
| 8/FO1 COMMUNICATIONS | I.T. PANEL #8 FO BOX #1 518(4) | NORC 115KV LINE SPL CAN | INSTALL DC | 1 36 | SM | FIBER OPTIC INSTALLED BY LINE CONSTRUCTION |
| 8-51/ITDC DC SUPPLY | I.T. PANEL #8 518(3) | DC PANEL #51 D59 | INSTALL 125 DC | 1 2 | #10 60 | 600V PIPJ |
| ICON/FO1 COMMUNICATIONS | I.T. PANEL #8 FO BOX #1 518(4) | I.T. PANEL #8 SEL-ICON | INSTALL DC | 1 1 | 9M | FIBER OPTIC 6 SM DUPLEX JMPR 2M |
| ICON/FO2 COMMUNICATIONS | I.T. PANEL #8 FO BOX #1 518(4) | I.T. PANEL #8 SEL-ICON | INSTALL DC | 1 1 | 9M | FIBER OPTIC 6 SM DUPLEX JMPR 2M |

BILL OF WIRE

PROJECT ITEM:

BENCHMARK: 96SC

1865128

MULKEY ROAD

WORKORDER: 421515

| CIRCUIT CIRCUIT TYPE | FROM REFERENCE | TO REFERENCE | FUNCTION VOLTAGE | #CABLES #CONDS | SIZE LENGTH | INSULATION REMARKS/REVISION |
|-------------------------------|-------------------------------|-------------------------------|---------------------|-------------------|----------------|--|
| 1COMM/A COMMUNICATIONS | RELAY/CONTROL PANEL #1 D50 | SUPV. REMOTE CAB. D50 | EXISTING DC | 1 5 | #22 | 300V SH SEL-C246 |
| 1P1 POTENTIAL | RELAY/CONTROL PANEL #1 D42 | LTE RADIO CABINET D51 | EXISTING 120 AC | 1 4 | #10 | 600V PIPJ |
| 1P1A POTENTIAL | 25KV BUS PT SFTY SW D28 | LTE RADIO CABINET D51 | EXISTING 120 AC | 1 4 | #10 | 600V PIPJ |
| RAD/COM1 COMMUNICATIONS | LTE RADIO CABINET D50 | LTE RADIO CABINET D50 | EXISTING DC | 1 8 | #24 | SHIELDED CAT-5 |
| RAD/COM2 COMMUNICATIONS | LTE RADIO CABINET D50 | LTE RADIO CABINET D50 | EXISTING DC | 1 8 | #24 | SHIELDED CAT-5 |
| REG/COM COMMUNICATIONS | SUPV. REMOTE CAB. D35 | LTE RADIO CABINET D51 | EXISTING DC | 1 4 | #24 | SHIELDED |
| RLY/COM COMMUNICATIONS | RELAY/CONTROL PANEL #2 D50 | LTE RADIO CABINET D50 | EXISTING DC | 1 4 | #24 | SHIELDED |
| RTU-RAD/COM COMMUNICATIONS | SUPV. REMOTE CAB. D50 | LTE RADIO CABINET D50 | EXISTING DC | 1 8 | #24 | SHIELDED CAT-5 |
| 722REG/COM1 COMMUNICATIONS | REGULATOR #722 PH. 1 D48 | REGULATOR #722 JCT BOX D48 | INSTALL DC | 1 4 | #24 | SHIELDED 25 |
| 722REG/COM2 COMMUNICATIONS | REGULATOR #722 PH. 2 D48 | REGULATOR #722 JCT BOX D48 | INSTALL DC | 1 4 | #24 | SHIELDED 15 |
| 722REG/COM3 COMMUNICATIONS | REGULATOR #722 PH. 3 D48 | REGULATOR #722 JCT BOX D48 | INSTALL DC | 1 4 | #24 | SHIELDED 25 |
| AC722 AC SUPPLY | STA. SERV. CABINET D11 | 25KV PCB #722 D46-002 | INSTALL 240 AC | 1 4 | #10 | 600V PIPJ 50 |
| AC732 AC SUPPLY | STA. SERV. CABINET D11 | 25KV PCB #732 D47-002 | INSTALL 240 AC | 1 4 | #10 | 600V PIPJ 50 |
| 1R2/722 RELAYING | RELAY/CONTROL PANEL #1 D42 | 25KV PCB #722 D46-003 | RELOCATE AC | 1 4 | #10 | 600V PIPJ RELOCATE FROM EXISTING PCB #722 |

BILL OF WIRE

PROJECT ITEM:

BENCHMARK: 96SC

1865128

MULKEY ROAD

WORKORDER: 421515

| CIRCUIT CIRCUIT TYPE | FROM REFERENCE | TO REFERENCE | FUNCTION VOLTAGE | #CABLES #CONDS | SIZE LENGTH | INSULATION REMARKS/REVISION |
|------------------------------|-------------------------------|--------------------------|---------------------|-------------------|----------------|--|
| 1R3/732 RELAYING | RELAY/CONTROL PANEL #1 D42 | 25KV PCB #732 D47-003 | RELOCATE AC | 1 4 | #10 | 600V PIPJ RELOCATE FROM EXISTING PCB #732 |
| 2C1/722 CONTROL | RELAY/CONTROL PANEL #2 D32 | 25KV PCB #722 D46-002 | RELOCATE 125 DC | 1 4 | #10 | 600V PIPJ RELOCATE FROM EXISTING PCB #722 |
| 2C2/722 CONTROL | RELAY/CONTROL PANEL #2 D32 | 25KV PCB #722 D46-002 | RELOCATE 125 DC | 1 4 | #10 | 600V PIPJ RELOCATE FROM EXISTING PCB #722 |
| 2C3/732 CONTROL | RELAY/CONTROL PANEL #2 D32 | 25KV PCB #732 D47-002 | RELOCATE 125 DC | 1 4 | #10 | 600V PIPJ RELOCATE FROM EXISTING PCB #732 |
| 2C4/732 CONTROL | RELAY/CONTROL PANEL #2 D32 | 25KV PCB #732 D47-002 | RELOCATE 125 DC | 1 4 | #10 | 600V PIPJ RELOCATE FROM EXISTING PCB #732 |
| 2R1/722 RELAYING | RELAY/CONTROL PANEL #2 D32 | 25KV PCB #722 D46-003 | RELOCATE AC | 1 4 | #10 | 600V PIPJ RELOCATE FROM EXISTING PCB #722 |
| 2R2/732 RELAYING | RELAY/CONTROL PANEL #2 D32 | 25KV PCB #732 D47-003 | RELOCATE AC | 1 4 | #10 | 600V PIPJ RELOCATE FROM EXISTING PCB #732 |
| AC1 AC SUPPLY | STA. SERV. CABINET D11 | A.C. JCT. BOX #1 D12 | REMOVE 240 AC | 1 2 | #6 | 600V PIPJ |
| AC722 AC SUPPLY | A.C. JCT. BOX #1 D12 | 25KV PCB #722 D19 | REMOVE 240 AC | 1 2 | #10 | 600V PIPJ |
| AC732 AC SUPPLY | A.C. JCT. BOX #1 D12 | 25KV PCB #732 D21 | REMOVE 240 AC | 1 2 | #10 | 600V PIPJ |
| 722REG/COM COMMUNICATIONS | REGULATOR #722 JCT BOX D48 | SUPV. REMOTE CAB. D35 | RENAME DC | 1 4 | #16 | SHIELDED WAS TM1/722R |
| 732REG/COM COMMUNICATIONS | REGULATOR #732 JCT BOX D49 | SUPV. REMOTE CAB. D35 | RENAME DC | 1 4 | #16 | SHIELDED WAS TM4/732R |

PROJECT ITEM:

BILL OF WIRE

BENCHMARK: 99SZ

1899807

MCGR AU FORD

OP NUMBER: 11082740

| CIRCUIT CIRCUIT TYPE | FROM REFERENCE | TO REFERENCE | FUNCTION VOLTAGE | #CABLES #CONDS | SIZE LENGTH | INSULATION REMARKS/REVISION |
|-------------------------|-------------------------|-------------------------|---------------------|-------------------|----------------|--------------------------------|
| 1-13/BCDC | PANEL 1 | PANEL 13 (D-424-002) | INSTALL | 1 2 | #10 55 | 600V PIPJ |
| 1-13/PDC | PANEL 1 (D-7-001) | PANEL 13 (D-424-002) | INSTALL | 1 2 | #10 55 | 600V PIPJ |
| 1-14/PDC | PANEL 1 (D-7-001) | PANEL 14 | INSTALL | 1 2 | #10 65 | 600V PIPJ |
| 13-19/SDC | PANEL 13 (D-424-002) | PANEL 19 (D-104-001) | INSTALL | 1 2 | #10 35 | 600V PIPJ |
| 13-46/DFR1 | PANEL 13 (D-424-002) | PANEL 46 (H-71-001) | INSTALL | 1 4 | #16 60 | SHIELDED |
| 13-46/DFR2 | PANEL 13 (D-424-002) | PANEL 46 (H-71-001) | INSTALL | 1 4 | #16 60 | SHIELDED |
| 13-46/ER1 | PANEL 13 (D-424-002) | PANEL 46 (H-71-001) | INSTALL | 1 4 | #16 60 | SHIELDED |
| 13-46/ER2 | PANEL 13 | PANEL 46 | INSTALL | 1 4 | #16 60 | SHIELDED |
| 13-46/ER3 | PANEL 13 (D-424-002) | PANEL 46 (H-71-001) | INSTALL | 1 4 | #16 60 | SHIELDED |
| 13-46/ER4 | PANEL 13 (D-424-002) | PANEL 46 (H-71-002) | INSTALL | 1 2 | #16 60 | SHIELDED |
| 13-51/OHB1 | PANEL 13 (D-424-002) | PANEL 51 (H-27-001) | INSTALL | 1 4 | #10 40 | 600V PIPJ |
| 13-51/OHB2 | PANEL 13 (D-424-001) | PANEL 51 (H-27-001) | INSTALL | 1 4 | #10 40 | 600V PIPJ |
| 13-51/SCDC | PANEL 13 (D-424-002) | PANEL 51 (H-27-001) | INSTALL | 1 2 | #10 40 | 600V PIPJ |
| 13-59/C1 | PANEL 13 (D-424-002) | PANEL 59 (D-114-001) | INSTALL | 1 2 | #10 40 | 600V PIPJ |
| 13-59/C2 | PANEL 13 (D-424-002) | PANEL 59 (D-114-001) | INSTALL | 1 2 | #10 40 | 600V PIPJ |

DATE: 1/8/2025

LISTED: GARCIA,ERIK

FACILITY ID: 01-173-BW REV 00

PROJECT ITEM:

BILL OF WIRE

BENCHMARK: 99SZ

1899807

MCGRAU FORD

OP NUMBER: 11082740

| CIRCUIT CIRCUIT TYPE | FROM REFERENCE | TO REFERENCE | FUNCTION VOLTAGE | #CABLES #CONDS | SIZE LENGTH | INSULATION REMARKS/REVISION |
|-------------------------|-------------------------|-------------------------------|---------------------|-------------------|----------------|--------------------------------|
| 13-59/C3 | PANEL 13 (D-424-002) | PANEL 59 (D-114-001) | INSTALL | 1 2 | #10 40 | 600V PIPJ |
| 13-59/C4 | PANEL 13 (D-424-002) | PANEL 59 (D-114-001) | INSTALL | 1 2 | #10 40 | 600V PIPJ |
| 13-59/C5 | PANEL 13 (D-424-002) | PANEL 59 (D-114-001) | INSTALL | 1 2 | #10 40 | 600V PIPJ |
| 13-60/C1 | PANEL 13 (D-424-002) | PANEL 60 (D-265-001) | INSTALL | 1 2 | #10 50 | 600V PIPJ |
| 13-888/COM1 | PANEL 13 (D-424-002) | 230KV PCB #888 (D-426-002) | INSTALL | 1 4 | 200M 1400 | FIBER OPTIC |
| 13-G/888C1 | PANEL 13 (D-424-002) | PANEL G (H-68-001) | INSTALL | 1 4 | #10 30 | 600V PIPJ |
| 13-G/888C2 | PANEL 13 (D-424-002) | PANEL G (H-68-001) | INSTALL | 1 4 | #10 30 | 600V PIPJ |
| 13-G/888C3 | PANEL 13 (D-424-002) | PANEL G (H-68-001) | INSTALL | 1 4 | #10 30 | 600V PIPJ |
| 13-G/888C4 | PANEL 13 (D-424-002) | PANEL G (H-68-001) | INSTALL | 1 2 | #10 30 | 600V PIPJ |
| 13-G/888C5 | PANEL 13 (D-424-002) | PANEL G (H-68-001) | INSTALL | 1 2 | #10 30 | 600V PIPJ |
| 13-G/888PR1 | PANEL 13 (D-424-002) | PANEL G (H-68-001) | INSTALL | 1 4 | #10 30 | 600V PIPJ |
| 13-G/888R1 | PANEL 13 (D-424-002) | PANEL G (H-68-001) | INSTALL | 1 4 | #10 30 | 600V PIPJ |
| 13-G/888R2 | PANEL 13 (D-424-002) | PANEL G (H-68-001) | INSTALL | 1 4 | #10 30 | 600V PIPJ |
| 14/AC | PANEL 14 (D-425-002) | PANEL G (H-68-001) | INSTALL | 1 2 | #10 75 | 600V PIPJ |
| 14-46/ER1 | PANEL 14 (D-425-002) | PANEL 46 (H-71-001) | INSTALL | 1 2 | #16 65 | SHIELDED |

DATE: 1/8/2025

LISTED: GARCIA,ERIK

FACILITY ID: 01-173-BW REV 00

PROJECT ITEM:

BILL OF WIRE

BENCHMARK: 99SZ

1899807

MCGRAU FORD

OP NUMBER: 11082740

| CIRCUIT CIRCUIT TYPE | FROM REFERENCE | TO REFERENCE | FUNCTION VOLTAGE | #CABLES #CONDS | SIZE LENGTH | INSULATION REMARKS/REVISION |
|-------------------------|-------------------------|-------------------------|---------------------|-------------------|----------------|--------------------------------|
| 14-G/22PM1 | PANEL 14 (D-425-002) | PANEL G (H-68-001) | INSTALL | 1 4 | #10 40 | 600V PIPJ |
| 14-G/22SM1 | PANEL 14 (D-425-002) | PANEL G (H-68-001) | INSTALL | 1 4 | #10 40 | 600V PIPJ |
| 14-G/PM2 | PANEL 14 (D-425-002) | PANEL G (H-68-001) | INSTALL | 1 4 | #10 40 | 600V PIPJ |
| 14-G/RM1 | PANEL 14 (D-425-002) | PANEL G (H-68-001) | INSTALL | 1 4 | #10 30 | 600V PIPJ |
| 14-G/RM2 | PANEL 14 (D-425-002) | PANEL G (H-68-001) | INSTALL | 1 4 | #10 30 | 600V PIPJ |
| 19-G/888DC | PANEL 19 (D-104-001) | PANEL G (H-68-001) | INSTALL | 1 2 | #10 55 | 600V PIPJ |
| 19-G/CCVTDC | PANEL 19 (D-104-001) | PANEL G (H-68-001) | INSTALL | 1 2 | #10 55 | 600V PIPJ |
| 2-13/SAL | PANEL 2 (D-20-001) | PANEL 13 (D-424-002) | INSTALL | 1 4 | #16 50 | SHIELDED |
| 3-14/COM1 | PANEL 3 (D-184-001) | PANEL 14 (D-425-002) | INSTALL | 1 8 | #24 35 | SHIELDED |
| 4-13/COM1 | PANEL 4 (D-187-001) | PANEL 13 (D-424-002) | INSTALL | 1 8 | #24 50 | SHIELDED |
| 4-13/COM2 | PANEL 4 (D-187-001) | PANEL 13 (D-424-002) | INSTALL | 1 8 | #24 50 | SHIELDED |
| 4-13/COM3 | PANEL 4 (D-187-001) | PANEL 13 (D-424-002) | INSTALL | 1 8 | #24 50 | SHIELDED |
| 4-14/COM1 | PANEL 4 (D-187-001) | PANEL 14 (D-425-002) | INSTALL | 1 8 | #24 55 | SHIELDED |
| 4-14/COM2 | PANEL 4 (D-187-001) | PANEL 14 (D-425-002) | INSTALL | 1 8 | #24 55 | SHIELDED |
| 59-G/888R4 | PANEL 59 (D-114-001) | PANEL G (H-68-001) | INSTALL | 1 4 | #10 60 | 600V PIPJ |

DATE: 1/8/2025

LISTED: GARCIA,ERIK

FACILITY ID: 01-173-BW REV 00

PROJECT ITEM:

BILL OF WIRE

BENCHMARK: 99SZ

1899807

MCGRAU FORD

OP NUMBER: 11082740

| CIRCUIT CIRCUIT TYPE | FROM REFERENCE | TO REFERENCE | FUNCTION VOLTAGE | #CABLES #CONDS | SIZE LENGTH | INSULATION REMARKS/REVISION |
|-------------------------|-----------------------------------|-------------------------------|---------------------|-------------------|----------------|--------------------------------|
| 60-G/888R3 | PANEL 60 (D-265-001) | PANEL G (H-68-001) | INSTALL | 1 4 | #10 65 | 600V PIPJ |
| 888/AC | 230KV AC THROWOVER (D-215-001) | 230KV PCB #888 (D-426-003) | INSTALL | 1 3 | #4 500 | 600V SH/FR |
| G/22PM1 | PANEL G (H-68-001) | 230KV CCVT (D-427-001) | INSTALL | 1 4 | #10 1350 | 600V SH |
| G/22SM1 | PANEL G (H-68-001) | METERING PT (D-428-001) | INSTALL | 1 4 | #10 1350 | 600V SH |
| G/888PR1 | PANEL G (H-68-001) | 230KV CCVT (D-427-001) | INSTALL | 1 4 | #10 1350 | 600V SH |
| G/888SR1 | PANEL G (H-68-001) | 230KV CCVT (D-427-001) | INSTALL | 1 4 | #10 1350 | 600V SH |
| G/PM2 | PANEL G (H-68-001) | METERING PT (D-428-001) | INSTALL | 1 4 | #10 1350 | 600V SH |
| G/RM1 | PANEL G (H-68-001) | METERING CT (D-428-001) | INSTALL | 1 4 | #10 1350 | 600V SH |
| G/RM2 | PANEL G (H-68-001) | METERING CT (D-428-001) | INSTALL | 1 4 | #10 1350 | 600V SH |
| G-888/C1 | PANEL G (H-68-001) | 230KV PCB #888 (D-426-003) | INSTALL | 1 4 | #4 1300 | 600V SH/FR |
| G-888/C2 | PANEL G (H-68-001) | 230KV PCB #888 (D-426-003) | INSTALL | 1 4 | #10 1300 | 600V SH |
| G-888/C3 | PANEL G (H-68-001) | 230KV PCB #888 (D-426-003) | INSTALL | 1 4 | #4 1300 | 600V SH/FR |
| G-888/C4 | PANEL G (H-68-001) | 230KV PCB #888 (D-426-003) | INSTALL | 1 4 | #10 1300 | 600V SH |
| G-888/DC | PANEL G (H-68-001) | 230KV PCB #888 (D-426-003) | INSTALL | 1 2 | #10 1300 | 600V SH |
| G-888/R1 | PANEL G (H-68-001) | 230KV PCB #888 (D-426-004) | INSTALL | 1 4 | #8 1300 | 600V SH |

DATE: 1/8/2025

LISTED: GARCIA,ERIK

FACILITY ID: 01-173-BW REV 00

| CIRCUIT CIRCUIT TYPE | FROM REFERENCE | TO REFERENCE | FUNCTION VOLTAGE | #CABLES #CONDS | SIZE LENGTH | INSULATION REMARKS/REVISION |
|-------------------------|-----------------------|-------------------------------|---------------------|-------------------|----------------|--------------------------------|
| G-888/R2 | PANEL G (H-68-001) | 230KV PCB #888 (D-426-004) | INSTALL | 1 4 | #8 1300 | 600V SH |
| G-888/R3 | PANEL G (H-68-001) | 230KV PCB #888 (D-426-004) | INSTALL | 1 4 | #8 1300 | 600V SH |
| G-888/R4 | PANEL G (H-68-001) | 230KV PCB #888 (D-426-004) | INSTALL | 1 4 | #8 1300 | 600V SH |
| G-CCVT/DC | PANEL G (H-68-001) | 230KV CCVT (D-427-001) | INSTALL | 1 2 | #10 1350 | 600V SH |
| G-CCVT/XD | PANEL G (H-68-001) | 230KV CCVT (D-427-001) | INSTALL | 1 2 | #10 1350 | 600V SH |

PANEL G
(H-68-001)

1350
600V SH

BILL OF WIRE

PROJECT ITEM:

BENCHMARK: 99SZ

1952302

HYUNDAI MOTORS

OP NUMBER: 10587685

| CIRCUIT CIRCUIT TYPE | FROM REFERENCE | TO REFERENCE | FUNCTION VOLTAGE | #CABLES #CONDS | SIZE LENGTH | INSULATION REMARKS/REVISION |
|-----------------------------|----------------------|-----------------------|---------------------|-------------------|----------------|--------------------------------|
| 1-14/COM1 COMMUNICATIONS | PANEL #1 H-11-005 | PANEL #14 H-11-005 | INSTALL DC | 1 8 | #24 47 | SHIELDED CAT5 CABLE |
| 1-14/COM2 COMMUNICATIONS | PANEL #1 H-11-005 | PANEL #14 H-11-005 | INSTALL DC | 1 8 | #24 47 | SHIELDED CAT5 CABLE |
| 1-15/COM1 COMMUNICATIONS | PANEL #1 H-11-005 | PANEL #15 H-11-005 | INSTALL DC | 1 8 | #24 50 | SHIELDED CAT5 CABLE |
| 1-15/COM2 COMMUNICATIONS | PANEL #1 H-11-005 | PANEL #15 H-11-005 | INSTALL DC | 1 8 | #24 50 | SHIELDED CAT5 CABLE |
| 1-15/COM3 COMMUNICATIONS | PANEL #1 H-11-005 | PANEL #15 H-11-005 | INSTALL DC | 1 8 | #24 50 | SHIELDED CAT5 CABLE |
| 1-16/COM1 COMMUNICATIONS | PANEL #1 H-11-005 | PANEL #16 H-11-005 | INSTALL DC | 1 8 | #24 53 | SHIELDED CAT5 CABLE |
| 1-20/COM1 COMMUNICATIONS | PANEL #1 H-11-005 | PANEL #20 H-11-005 | INSTALL DC | 1 8 | #24 62 | SHIELDED CAT5 CABLE |
| 1-3/COM1 COMMUNICATIONS | PANEL #1 H-11-005 | PANEL #3 H-11-005 | INSTALL DC | 1 8 | #24 23 | SHIELDED CAT5 CABLE |
| 1-30/COM1 COMMUNICATIONS | PANEL #1 H-11-005 | PANEL #30 H-11-005 | INSTALL DC | 1 4 | 200M 86 | FIBER OPTIC CAT5 CABLE |
| 1-30/COM2 COMMUNICATIONS | PANEL #1 H-11-005 | PANEL #30 H-11-005 | INSTALL DC | 1 8 | #24 86 | SHIELDED CAT5 CABLE |
| 1-30/COM3 COMMUNICATIONS | PANEL #1 H-11-005 | PANEL #30 H-11-005 | INSTALL DC | 1 8 | #24 86 | SHIELDED CAT5 CABLE |
| 1-31/COM1 COMMUNICATIONS | PANEL #1 H-11-005 | PANEL #31 H-11-005 | INSTALL DC | 1 8 | #24 84 | SHIELDED CAT5 CABLE |
| 1-32/COM1 COMMUNICATIONS | PANEL #1 H-11-005 | PANEL #32 H-11-005 | INSTALL DC | 1 8 | #24 81 | SHIELDED CAT5 CABLE |

DATE: 8/22/2023

LISTED: SWAYZE, BA

FACILITY ID: 11602-BW

REV 00

BILL OF WIRE

PROJECT ITEM:

BENCHMARK: 99SZ

1952302

HYUNDAI MOTORS

OP NUMBER: 10587685

| CIRCUIT CIRCUIT TYPE | FROM REFERENCE | TO REFERENCE | FUNCTION VOLTAGE | #CABLES #CONDS | SIZE LENGTH | INSULATION REMARKS/REVISION |
|-----------------------------|----------------------|-----------------------|---------------------|-------------------|----------------|--------------------------------|
| 1-32/COM2 COMMUNICATIONS | PANEL #1 H-11-005 | PANEL #32 H-11-005 | INSTALL DC | 1 8 | #24 81 | SHIELDED CAT5 CABLE |
| 1-33/COM1 COMMUNICATIONS | PANEL #1 H-11-005 | PANEL #33 H-11-005 | INSTALL DC | 1 8 | #24 79 | SHIELDED CAT5 CABLE |
| 1-33/COM2 COMMUNICATIONS | PANEL #1 H-11-005 | PANEL #33 H-11-005 | INSTALL DC | 1 8 | #24 79 | SHIELDED CAT5 CABLE |
| 1-33/COM3 COMMUNICATIONS | PANEL #1 H-11-005 | PANEL #33 H-11-005 | INSTALL DC | 1 8 | #24 79 | SHIELDED CAT5 CABLE |
| 1-34/COM1 COMMUNICATIONS | PANEL #1 H-11-005 | PANEL #34 H-11-005 | INSTALL DC | 1 8 | #24 77 | SHIELDED CAT5 CABLE |
| 1-34/COM2 COMMUNICATIONS | PANEL #1 H-11-005 | PANEL #34 H-11-005 | INSTALL DC | 1 8 | #24 77 | SHIELDED CAT5 CABLE |
| 1-35/COM1 COMMUNICATIONS | PANEL #1 H-11-005 | PANEL #35 H-11-005 | INSTALL DC | 1 8 | #24 74 | SHIELDED CAT5 CABLE |
| 1-35/COM2 COMMUNICATIONS | PANEL #1 H-11-005 | PANEL #35 H-11-005 | INSTALL DC | 1 8 | #24 74 | SHIELDED CAT5 CABLE |
| 1-38/COM1 COMMUNICATIONS | PANEL #1 H-11-005 | PANEL #38 H-11-005 | INSTALL DC | 1 8 | #24 64 | SHIELDED CAT5 CABLE |
| 1-39/COM1 COMMUNICATIONS | PANEL #1 H-11-005 | PANEL #39 H-11-005 | INSTALL DC | 1 8 | #24 62 | SHIELDED CAT5 CABLE |
| 1-4/COM1 COMMUNICATIONS | PANEL #1 H-11-005 | PANEL #4 H-11-005 | INSTALL DC | 1 8 | #24 25 | SHIELDED CAT5 CABLE |
| 1-4/COM2 COMMUNICATIONS | PANEL #1 H-11-005 | PANEL #4 H-11-005 | INSTALL DC | 1 8 | #24 25 | SHIELDED CAT5 CABLE |
| 1-40/COM1 COMMUNICATIONS | PANEL #1 H-11-005 | PANEL #40 H-11-005 | INSTALL DC | 1 4 | 200M 60 | FIBER OPTIC CAT5 CABLE |

DATE: 8/22/2023

LISTED: SWAYZE, BA

FACILITY ID: 11602-BW

REV 00

BILL OF WIRE

PROJECT ITEM:

BENCHMARK: 40AA

1833801

ALLEN ROAD

WORKORDER: 585107

| CIRCUIT CIRCUIT TYPE | FROM REFERENCE | TO REFERENCE | FUNCTION VOLTAGE | #CABLES #CONDS | SIZE LENGTH | INSULATION REMARKS/REVISION |
|----------------------------------|------------------------------|--------------------------|---------------------|-------------------|----------------|--|
| 1-8/DC2 DC SUPPLY | D.C. PANEL #1 D7 | RLY PANEL #8 D42 | INSTALL 125 DC | 1 2 | #10 40 | 600V PIPJ FRONT (PRI.) - 30A |
| 262/AC AC SUPPLY | FEEDER #262 CTRL CAB D130 | BK-B S.S. CAB. #2 D52 | INSTALL 240 AC | 1 4 | #10 60 | 600V PIPJ 30A |
| 2-8/COM1 SIA DATA/ENG. ACCESS | D.C. PANEL #5 D11 | D.C. PANEL #2 D11 | INSTALL DC | 1 8 | #24 40 | SHIELDED SEL351_P2 TO SEL3610#A2_P1 |
| 6-8/C2 CONTROL | BK-B DIFF PANEL #6 D31 | RLY PANEL #8 D42 | INSTALL 125 DC | 1 2 | #10 40 | 600V PIPJ PCB# 262 CONTROL |
| 6-A/262C4 CONTROL | BK-B DIFF PANEL #6 D31 | TERM. PANEL "A" D45 | INSTALL 125 DC | 1 2 | #10 40 | 600V PIPJ PCB# 262 CONTROL |
| 7-A/262R2 RELAYING | BUS-2 DIFF PANEL #7 D38 | TERM. PANEL "A" D45 | INSTALL AC | 1 4 | #10 40 | 600V PIPJ CT |
| 8-A/262C1 CONTROL | RLY PANEL #8 D42 | TERM. PANEL "A" D45 | INSTALL 125 DC | 1 4 | #10 40 | 600V PIPJ PCB# 262 CONTROL |
| 8-A/262C2 CONTROL | RLY PANEL #8 D42 | TERM. PANEL "A" D45 | INSTALL 125 DC | 1 4 | #10 40 | 600V PIPJ PCB# 262 CONTROL |
| 8-A/262C3 CONTROL | RLY PANEL #8 D42 | TERM. PANEL "A" D45 | INSTALL 125 DC | 1 2 | #10 40 | 600V PIPJ PCB# 262 CONTROL |
| 8-A/262R1 RELAYING | RLY PANEL #8 D42 | TERM. PANEL "A" D45 | INSTALL AC | 1 4 | #10 40 | 600V PIPJ CT |
| A-262/C1 CONTROL | FEEDER #262 CTRL CAB D131 | TERM. PANEL "A" D45 | INSTALL 125 DC | 1 4 | #10 220 | 600V PIPJ PCB# 262 CONTROL |
| A-262/C2 CONTROL | FEEDER #262 CTRL CAB D131 | TERM. PANEL "A" D45 | INSTALL 125 DC | 1 4 | #10 220 | 600V PIPJ PCB# 262 CONTROL |
| A-262/C3 CONTROL | FEEDER #262 CTRL CAB D131 | TERM. PANEL "A" D45 | INSTALL 125 DC | 1 2 | #10 220 | 600V PIPJ PCB# 262 CONTROL |
| A-262/C4 CONTROL | FEEDER #262 CTRL CAB D131 | TERM. PANEL "A" D45 | INSTALL 125 DC | 1 2 | #10 220 | 600V PIPJ PCB# 262 CONTROL |

| CIRCUIT CIRCUIT TYPE | FROM REFERENCE | TO REFERENCE | FUNCTION VOLTAGE | #CABLES #CONDS | SIZE LENGTH | INSULATION REMARKS/REVISION |
|-------------------------|------------------------------|------------------------|---------------------|-------------------|----------------|--------------------------------|
| A-262/R1 RELAYING | FEEDER #262 CTRL CAB D129 | TERM. PANEL "A" D45 | INSTALL AC | 1 4 | #10 220 | 600V PIPJ CT |
| A-262/R2 RELAYING | FEEDER #262 CTRL CAB D129 | TERM. PANEL "A" D45 | INSTALL AC | 1 4 | #10 220 | 600V PIPJ CT |

BILL OF WIRE

PROJECT ITEM:

BENCHMARK: 99SZ

1767809

ROOPVILLE

WORKORDER: 278720

| CIRCUIT CIRCUIT TYPE | FROM REFERENCE | TO REFERENCE | FUNCTION VOLTAGE | #CABLES #CONDS | SIZE LENGTH | INSULATION REMARKS/REVISION |
|--------------------------------|-------------------------------------|-------------------------------------|---------------------|-------------------|----------------|--------------------------------|
| 482/C CONTROL | 12KV PCB #482 D-93-002 | 12KV PCB #482 SUB PANEL D-93-005 | EXISTING 125 DC | 1 24 | #14 20 | 600 VOLT REORDERED AS EXTRA |
| 482/C1 CONTROL | 12KV PCB #482 D-93-002 | 12KV PCB #482 SUB PNL D-93-005 | INSTALL 125 DC | 1 2 | #16 50 | SHIELDED |
| 482-SCFO COMMUNICATIONS | 12KV PCB #482 SUB PANEL D-93-005 | GTC RTU | INSTALL DC | | 50 | (FIBER OPTIC) PROVIDED BY GTC |
| CTPT-RMAM POTENTIAL | RRM "A" TRANSFORMERS | REVENUE METER CABINET | INSTALL 120 AC | | 200 | PROVIDED BY GTC |
| EMC-COM1 COMMUNICATIONS | MPLS INSERT | GTC/EMC JCT BOX | INSTALL DC | | 200 | (FIBER OPTIC) PROVIDED BY GTC |
| EMC-COMAC AC SUPPLY | GTC RTU | GTC/EMC JCT BOX | INSTALL 240 AC | 1 2 | #10 200 | 600V PIPJ |
| EMC-COMDC DC SUPPLY | GTC RTU | GTC/EMC JCT BOX | INSTALL 125 DC | 1 2 | #10 200 | 600V PIPJ |
| GTC/AC AC SUPPLY | INDOOR AC CABINET #A D-44-001 | GTC JCT BOX D-106-001 | INSTALL 240 AC | 1 4 | #6 350 | 600V SH |
| GTC/DC DC SUPPLY | SEC DC PANEL D-43-002 | GTC JCT BOX D-106-001 | INSTALL 125 DC | 1 2 | #10 350 | 600V SH |
| GTC-482/C DC SUPPLY | 12KV PCB #482 D-93-002 | GTC JCT BOX D-106-001 | INSTALL 125 DC | 1 4 | #10 75 | 600V PIPJ |
| GTC-686/C CONTROL | 230KV PCB #686 D-89-003 | GTC JCT BOX D-106-001 | INSTALL 125 DC | 1 2 | #10 120 | 600V SH |
| RMA-SAL27 SUPERVISORY ALARM | GTC RTU | REVENUE METER CABINET | INSTALL 125 DC | 1 4 | #16 100 | SHIELDED |
| RMA-SCFO COMMUNICATIONS | GTC RTU | REVENUE METER CABINET | INSTALL DC | | 100 | (FIBER OPTIC) PROVIDED BY GTC |
| RTU-SAL10 SUPERVISORY ALARM | GTC JCT BOX D-106-001 | GTC RTU | INSTALL 125 DC | 1 2 | #10 50 | 600V PIPJ |

BILL OF WIRE

BENCHMARK: 10G

PROJECT ITEM:

CASSVILLE

OP NUMBER: 11044177

1898121

| CIRCUIT CIRCUIT TYPE | FROM REFERENCE | TO REFERENCE | FUNCTION VOLTAGE | #CABLES #CONDS | SIZE LENGTH | INSULATION REMARKS/REVISION |
|---------------------------------------|------------------------------------|----------------------------------|-----------------------------------|---------------------------------|------------------------------|--|
| RAD-PCB/COM1 COMMUNICATIONS | RADIO D44-004 | REGULATOR JCT BOX 722 D44-004 | EXISTING DC | 1 4 | #24 | SHIELDED RECONNECT |
| RAD-REG/COM1 COMMUNICATIONS | RADIO D44-004 | REGULATOR JCT BOX 722 D44-004 | EXISTING DC | 1 4 | #24 | SHIELDED RECONNECT |
| SIA/COM1 COMMUNICATIONS | SIA PAN.-PERLE ETHERNET D44-004 | SIA PAN.- SEL3622 D44-004 | INSTALL DC | 1 8 | #24 5 | SHIELDED |
| SIA/COM2 COMMUNICATIONS | SIA PAN.-PERLE ETHERNET D44-004 | SIA PAN.- SEL3505 D44-004 | INSTALL DC | 1 8 | #24 5 | SHIELDED |
| SIA/COM3 COMMUNICATIONS | SIA PAN.-SEL3622 D44-004 | SIA PAN.-SEL2515 D44-004 | INSTALL DC | 1 4 | 200M 3 | FIBER OPTIC |
| SIA/COM4 COMMUNICATIONS | SIA PAN.-PERLE ETHERNET D44-004 | SIA PAN.- SATEC PM180 D44-004 | INSTALL DC | 1 8 | #24 5 | SHIELDED |
| SIA-722/COM1 COMMUNICATIONS | SIA PAN. -SEL3622 D44-004 | 25KV PCB 722 D44-004 | INSTALL DC | 1 4 | 200M 15 | FIBER OPTIC |
| SIA-732/COM1 COMMUNICATIONS | SIA PAN. -SEL3622 D44-004 | 25KV PCB 732 D44-004 | INSTALL DC | 1 4 | 200M 20 | FIBER OPTIC |
| SIA-BKA/COM1 COMMUNICATIONS | SIA PAN. -SEL3622 D44-004 | 46/25KV BANK A D44-004 | INSTALL DC | 1 4 | 200M 20 | FIBER OPTIC |
| SIA-RAD/COM1 COMMUNICATIONS | SIA PNL. -SEL3622 D44-004 | RADIO D44-004 | INSTALL DC | 1 8 | #24 50 | SHIELDED |

BILL OF WIRE

PROJECT ITEM:

BENCHMARK: 99SZ

2032301

VOGTLE COMMON

OP NUMBER: 11061508

| CIRCUIT CIRCUIT TYPE | FROM REFERENCE | TO REFERENCE | FUNCTION VOLTAGE | #CABLES #CONDS | SIZE LENGTH | INSULATION REMARKS/REVISION |
|------------------------------|-------------------------------|----------------------------------|---------------------|-------------------|----------------|--------------------------------|
| 1F-2A/COM1 COMMUNICATIONS | SWITCHBOARD PANEL 2A E2127 | SIA PANEL 1F E2127 | INSTALL DC | 1 8 | #24 30 | SHIELDED CAT5 CABLE |
| 1F-3A/COM1 COMMUNICATIONS | SWITCHBOARD PANEL 3A E2127 | SIA PANEL 1F E2127 | INSTALL DC | 1 8 | #24 50 | SHIELDED CAT5 CABLE |
| 1F-4J/COM1 COMMUNICATIONS | SWITCHBOARD PANEL 4J E2127 | SIA PANEL 1F E2127 | INSTALL DC | 1 8 | #24 75 | SHIELDED CAT5 CABLE |
| 2A/PQMDC DC SUPPLY | SWITCHBOARD PANEL 2A E2806 | ANFDC2 E1054 | INSTALL 125 DC | 1 2 | #10 75 | 600V PIPJ |
| 2A-2B/ER123 DME DIGITAL | SWITCHBOARD PANEL 2A E2806 | 500KV DME TERM PANEL 2B E2960 | INSTALL 125 DC | 1 2 | #16 10 | SHIELDED |
| 2A-3A/PQMDC DC SUPPLY | SWITCHBOARD PANEL 2A E2806 | SWITCHBOARD PANEL 3A E2821 | INSTALL 125 DC | 1 2 | #10 25 | 600V PIPJ |
| 2A-5A/ER190 DME DIGITAL | SWITCHBOARD PANEL 2A E2806 | 230KV DME TERM PANEL 5A E2968 | INSTALL 125 DC | 1 2 | #16 40 | SHIELDED |
| 2B-3A/ER124 DME DIGITAL | SWITCHBOARD PANEL 3A E2821 | 500KV DME TERM PANEL 2B E2960 | INSTALL 125 DC | 1 2 | #16 25 | SHIELDED |
| 2B-4J/ER125 DME DIGITAL | SWITCHBOARD PANEL 4J E2958 | 500KV DME TERM PANEL 2B E2960 | INSTALL 125 DC | 1 2 | #16 75 | SHIELDED |
| 3A-4J/PQMDC DC SUPPLY | SWITCHBOARD PANEL 3A E2821 | SWITCHBOARD PANEL 4J E2958 | INSTALL 125 DC | 1 2 | #10 40 | 600V PIPJ |
| 3A-5A/ER191 DME DIGITAL | SWITCHBOARD PANEL 3A E2821 | 230 DME TERM PANEL 5A E2968 | INSTALL 125 DC | 1 2 | #16 40 | SHIELDED |
| 4J-5A/ER192 DME DIGITAL | SWITCHBOARD PANEL 4J E2958 | 230KV DME TERM PANEL 5A E2968 | INSTALL 125 DC | 1 2 | #16 50 | SHIELDED |
| ANF8003TS POTENTIAL | SWITCHBOARD PANEL 3A E2821 | TERM PANEL 1B E1600 | INSTALL 120 AC | 1 4 | #10 50 | 600V PIPJ |
| ANF8075TP POTENTIAL | SWITCHBOARD PANEL 4J E2958 | TERM PANEL 1G E1605 | INSTALL 120 AC | 1 4 | #10 75 | 600V PIPJ |

BILL OF WIRE

PROJECT ITEM:

BENCHMARK: 99SZ

1943308

SUMMER LAKE

OP NUMBER: 10584273

| CIRCUIT CIRCUIT TYPE | FROM REFERENCE | TO REFERENCE | FUNCTION VOLTAGE | #CABLES #CONDS | SIZE LENGTH | INSULATION REMARKS/REVISION |
|--------------------------|-----------------------------|--|---------------------|-------------------|----------------|--------------------------------|
| 1T-020/R2 RELAYING | TERM PANEL 1T (D-53-002) | 230KV PCB #020 (D-59-006) | INSTALL AC | 1 4 | #10 225 | 600V SH |
| 1T-020/R3 RELAYING | TERM PANEL 1T (D-53-002) | 230KV PCB #020 (D-59-006) | INSTALL AC | 1 4 | #10 225 | 600V SH |
| 1T-020/R4 RELAYING | TERM PANEL 1T (D-53-002) | 230KV PCB #020 (D-59-006) | INSTALL AC | 1 4 | #10 225 | 600V SH |
| 1T-020/SCDC DC SUPPLY | TERM PANEL 1T (D-53-002) | 230KV PCB #020 (D-59-003) | INSTALL | 1 2 | #10 225 | 600V SH |
| 1T-314/C1 CONTROL | TERM PANEL 1T (D-53-002) | 25KV PCB #314 (D-70-004) | INSTALL | 1 4 | #10 400 | 600V SH |
| 1T-314/C2 CONTROL | TERM PANEL 1T (D-53-002) | 25KV PCB #314 (D-70-004) | INSTALL | 1 4 | #10 400 | 600V SH |
| 1T-314/C3 CONTROL | TERM PANEL 1T (D-53-002) | 25KV PCB #314 (D-70-004) | INSTALL | 1 4 | #10 400 | 600V SH |
| 1T-314/R1 RELAYING | TERM PANEL 1T (D-53-002) | 25KV PCB #314 (D-70-006) | INSTALL AC | 1 4 | #10 400 | 600V SH |
| 1T-314/R2 RELAYING | TERM PANEL 1T (D-53-002) | 25KV PCB #314 (D-70-006) | INSTALL AC | 1 4 | #10 400 | 600V SH |
| 1T-BKA/C1 CONTROL | TERM PANEL 1T (D-53-002) | 230-25KV BANK A (D-75-006) | INSTALL | 1 4 | #10 400 | 600V SH |
| 1T-BKA/C2 CONTROL | TERM PANEL 1T (D-53-002) | 230-25KV BANK A (D-75-006) | INSTALL | 1 2 | #10 400 | 600V SH |
| 1T-BKA/LAR RELAYING | TERM PANEL 1T (D-53-002) | 230-25KV BANK A (D-75-006) | INSTALL AC | 1 2 | #10 400 | 600V SH |
| 1T-BKA/MDC DC SUPPLY | TERM PANEL 1T (D-53-002) | 230-25KV BNK A METERING (D-101-001) | INSTALL | 1 2 | #10 400 | 600V SH |
| 1T-BKA/P21 POTENTIAL | TERM PANEL 1T (D-53-002) | 230-25KV BANK A (D-75-006) | INSTALL 120 AC | 1 2 | #10 400 | 600V SH |

DATE: 2/15/2023

LISTED: HAYES, TYLER

FACILITY ID: 11527-BW RE 02

BILL OF WIRE

PROJECT ITEM:

BENCHMARK: 30J3

1604307

VOGTLE COMMON

WORKORDER: C73991

| CIRCUIT CIRCUIT TYPE | FROM REFERENCE | TO REFERENCE | FUNCTION VOLTAGE | #CABLES #CONDS | SIZE LENGTH | INSULATION REMARKS/REVISION |
|-------------------------|-------------------------------|-------------------------------|---------------------|-------------------|----------------|--------------------------------|
| ANFSYNC5SG CONTROL | SWITCHBOARD PANEL 5V E2916 | SYNC PANEL 5V-S E2920 | INSTALL 125 DC | 1 2 | #10 15 | 600V PIPJ |
| ANF8001SK | TERM PANEL 1L E1609 | ANFCCM11 E1479 | REMOVE | | | |
| ANF8001SL | TERM PANEL 1L E1609 | ANFCCM11 E1479 | REMOVE | | | |
| ANF8001SX | SWITCHBOARD PANEL 5V E1407 | TERM PANEL 1L E1609 | REMOVE | | | |
| ANF8008SL | SWITCHBOARD PANEL 5V E1407 | TERM PANEL 1A E1599 | REMOVE | | | |
| ANFANN6TM | TERM PANEL 1R E2227 | ANFANN6 E1713 | REMOVE | | | |
| ANFANN6TN | TERM PANEL 1R E2227 | ANFANN6 E1713 | REMOVE | | | |
| ANFANN8UC | SWITCHBOARD PANEL 5V E1407 | SWITCHBOARD PANEL 5T E1409 | REMOVE | | | |
| ANFANN8YW | SWITCHBOARD PANEL 5V E1407 | SWITCHBOARD PANEL 3S E2937 | REMOVE | | | |
| ANFANN8ZK | SWITCHBOARD PANEL 5V E1407 | SWITCHBOARD PANEL 5S E2910 | REMOVE | | | |
| ANFB860PCUP | SWITCHBOARD PANEL 5V E1407 | SWITCHBOARD PANEL 5S E2910 | REMOVE | | | |
| ANFB960BFSB | SWITCHBOARD PANEL 5V E1407 | SWITCHBOARD PANEL 5T E1409 | REMOVE | | | |
| ANFB960BFSD | SWITCHBOARD PANEL 5V E1407 | TERM PANEL 1M E1610 | REMOVE | | | |
| ANFB960BFSJ | SWITCHBOARD PANEL 5V E1407 | SWITCHBOARD PANEL 5Y E2768 | REMOVE | | | |
| ANFB960BFSK | SWITCHBOARD PANEL 5V E1407 | SWITCHBOARD PANEL 5Z E2772 | REMOVE | | | |

BILL OF WIRE

PROJECT ITEM:

BENCHMARK: 30J3

1604307

VOGTLE COMMON

WORKORDER: C73991

| CIRCUIT CIRCUIT TYPE | FROM REFERENCE | TO REFERENCE | FUNCTION VOLTAGE | #CABLES #CONDS | SIZE LENGTH | INSULATION REMARKS/REVISION |
|-------------------------|-------------------------------|-------------------------------|---------------------|-------------------|----------------|--------------------------------|
| ANFB960SCSE | SWITCHBOARD PANEL 5V E1407 | SWITCHBOARD PANEL 5T E1409 | REMOVE | | | |
| ANFB960SCSG | SWITCHBOARD PANEL 5S E2910 | SWITCHBOARD PANEL 5T E1409 | REMOVE | | | |
| ANFB960SCSN | SWITCHBOARD PANEL 5V E1407 | TERM PANEL 1R E2227 | REMOVE | | | |
| ANFCT960TH | SWITCHBOARD PANEL 5V E1407 | SWITCHBOARD PANEL 5T E1409 | REMOVE | | | |
| ANFCT960TR | SWITCHBOARD PANEL 5V E1407 | TERM PANEL 1R E2227 | REMOVE | | | |
| ANFDCOPDSA | SWITCHBOARD PANEL 5V E1407 | ANFDC4 E1055 | REMOVE | | | |
| ANFDS961SU | TERM PANEL 1R E2227 | ANFCCM11 E1478 | REMOVE | | | |
| ANFDS963SF | TERM PANEL 1R E2227 | ANFCCM11 E1478 | REMOVE | | | |
| ANFERC1BSL | SWITCHBOARD PANEL 5V E1407 | ANFERC1 E1626 | REMOVE | | | |
| ANFERC1BSM | SWITCHBOARD PANEL 5V E1407 | ANFERC1 E1626 | REMOVE | | | |
| ANFMO761TE | SWITCHBOARD PANEL 5V E1407 | SWITCHBOARD PANEL 5S E2910 | REMOVE | | | |
| ANFMO961SB | SWITCHBOARD PANEL 5V E1407 | TERM PANEL 1M E1610 | REMOVE | | | |
| ANFMO961SD | SWITCHBOARD PANEL 5V E1407 | ANFCCM11 E1478 | REMOVE | | | |
| ANFMO963SB | SWITCHBOARD PANEL 5V E1407 | TERM PANEL 1M E1610 | REMOVE | | | |
| ANFMO963SD | SWITCHBOARD PANEL 5V E1407 | ANFCCM11 E1478 | REMOVE | | | |

| CIRCUIT CIRCUIT TYPE | FROM REFERENCE | TO REFERENCE | FUNCTION VOLTAGE | #CABLES #CONDS | SIZE LENGTH | INSULATION REMARKS/REVISION |
|----------------------------------|--|------------------------------|---------------------|-------------------|----------------|--------------------------------|
| 1-20/DC1 DC SUPPLY | PRIMARY DC PANEL (D-128-001) | PANEL 20 (D-243-001) | INSTALL | 1 2 | #10 50 | 600V PIPJ |
| 19/P11 POTENTIAL | PANEL 19 (D-240-001) | 12KV BUS 1 PT (D-261-001) | INSTALL | 1 4 | #10 595 | 600V PIPJ |
| 19-20/TST3 CONTROL | PANEL 19 (D-240-001) | PANEL 20 (D-243-001) | INSTALL | 1 2 | #10 25 | 600V PIPJ |
| 19-992/R2 RELAYING | PANEL 19 (D-240-001) | PCB 992 (D-440-004) | INSTALL | 1 4 | #10 585 | 600V PIPJ |
| 20-992/C1 CONTROL | PANEL 20 (D-243-001) | PCB 992 (D-440-003) | INSTALL | 1 4 | #10 585 | 600V PIPJ |
| 20-992/C2 CONTROL | PANEL 20 (D-243-001) | PCB 992 (D-440-003) | INSTALL | 1 4 | #10 585 | 600V PIPJ |
| 20-992/C3 CONTROL | PANEL 20 (D-243-001) | PCB 992 (D-440-003) | INSTALL | 1 2 | #10 585 | 600V PIPJ |
| 20-992/R1 RELAYING | PANEL 20 (D-243-001) | PCB 992 (D-440-004) | INSTALL | 1 4 | #10 585 | 600V PIPJ |
| 20-REG/COM1 COMMUNICATIONS | PCB 772 REG. J.B (D-415-001) | ORBIT RADIO (D-300-001) | INSTALL | 1 4 | #24 585 | SHIELDED |
| 20-SIA/S304 SUPERVISORY ALARM | PANEL 20 (D-243-001) | SIA PANEL (D-299-001) | INSTALL | 1 4 | #6 40 | 600V PIPJ |
| 992/AC AC SUPPLU | "BANK ""C"" STATION SER (D-258-001) | PCB 992 (D-440-003) | INSTALL | 1 4 | #10 585 | 600V PIPJ |

BILL OF WIRE

PROJECT ITEM:

BENCHMARK: 10G

2006922

KIA MOTORS

OP NUMBER: 11068227

| CIRCUIT CIRCUIT TYPE | FROM REFERENCE | TO REFERENCE | FUNCTION VOLTAGE | #CABLES #CONDS | SIZE LENGTH | INSULATION REMARKS/REVISION |
|-------------------------------|-------------------|--------------------------|---------------------|-------------------|----------------|--------------------------------|
| 24-BC/SCDC DC SUPPLY | PANEL #24 D26 | BATTERY CHARGER D22 | INSTALL 125 DC | 1 2 | #16 42 | SHIELDED |
| 24-RAD/COM1 COMMUNICATIONS | PANEL #24 D27 | LTE RADIO BOARD D27 | INSTALL DC | 1 8 | #24 24 | SHIELDED |
| 24-Y/SCDCC DC SUPPLY | PANEL #24 D26 | TERM. BOARD "Y" D86 | INSTALL 125 DC | 1 2 | #10 54 | 600V PIPJ |
| 24-Z/SCDC508 DC SUPPLY | PANEL #24 D26 | TERM. BOARD "Z" D34 | INSTALL 125 DC | 1 2 | #10 44 | 600V PIPJ |
| 24-Z/SCDCA DC SUPPLY | PANEL #24 D26 | TERM. BOARD "Z" D34 | INSTALL 125 DC | 1 2 | #10 44 | 600V PIPJ |
| 24-Z/SCDCB DC SUPPLY | PANEL #24 D26 | TERM. BOARD "Z" D34 | INSTALL 125 DC | 1 2 | #10 44 | 600V PIPJ |
| 3-24/SCDC DC SUPPLY | PANEL #24 D26 | PANEL #3 D17 | INSTALL 125 DC | 1 2 | #10 31 | 600V PIPJ |
| 4-24/SCDC DC SUPPLY | PANEL #24 D26 | PANEL #4 D75 | INSTALL 125 DC | 1 2 | #10 36 | 600V PIPJ |
| 5-24/SCDC DC SUPPLY | PANEL #24 D26 | PANEL #5 D79 | INSTALL 125 DC | 1 2 | #10 38 | 600V PIPJ |
| 6-24/SCDC DC SUPPLY | PANEL #24 D26 | PANEL #6 D82 | INSTALL 125 DC | 1 2 | #10 40 | 600V PIPJ |
| RAD/DC DC SUPPLY | D.C. PANEL D22 | LTE RADIO BOARD D112 | INSTALL 125 DC | 1 2 | #10 24 | 600V PIPJ |
| 1RDC DC SUPPLY | PANEL #24 D26 | DGA MASTER RADIO D110 | REMOVE 125 DC | | | |
| 24/SCDC DC SUPPLY | PANEL #24 D26 | DC PANEL D22 | RENAME 125 DC | | | WAS "24-SDC" |

DATE: 2/19/2024

LISTED: HAMILTON, BARBARA

FACILITY ID: 01-308-BW REV 00

BILL OF WIRE

PROJECT ITEM:

BENCHMARK: 10G

1830742

WAYNESBORO PRIMARY

OP NUMBER: 10570778

| CIRCUIT CIRCUIT TYPE | FROM REFERENCE | TO REFERENCE | FUNCTION VOLTAGE | #CABLES #CONDS | SIZE LENGTH | INSULATION REMARKS/REVISION |
|------------------------------------|----------------------|------------------------------|---------------------|-------------------|----------------|--------------------------------|
| 11/COM6 COMMUNICATIONS | SIA PANEL 11 D179 | SIA PANEL 11 D179 | INSTALL DC | 1 8 | #24 5 | SHIELDED |
| 11/COM7 COMMUNICATIONS | SIA PANEL 11 D179 | SIA PANEL 11 D179 | INSTALL DC | 1 8 | #24 5 | SHIELDED |
| 11-158/COM1 COMMUNICATIONS | SIA PANEL 11 D179 | 115KV PCB 158 D179 | INSTALL DC | 1 4 | 200M 400 | FIBER OPTIC |
| 11-21/194SC SUPERVISORY CONTROL | SIA PANEL 11 D178 | SWITCHBOARD PANEL 21 D96 | INSTALL 125 DC | 1 4 | #10 65 | 600V PIPJ |
| 11-21/COM1 COMMUNICATIONS | SIA PANEL 11 D179 | SWITCHBOARD PANEL 21 D179 | INSTALL DC | 1 4 | 200M 65 | FIBER OPTIC |
| 11-21/SAL1 SUPERVISORY ALARM | SIA PANEL 11 D178 | SWITCHBOARD PANEL 21 D96 | INSTALL 125 DC | 1 2 | #16 65 | SHIELDED |
| 11-21/SCDC DC SUPPLY | SIA PANEL 11 D178 | SWITCHBOARD PANEL 21 D96 | INSTALL 125 DC | 1 2 | #10 65 | 600V PIPJ |
| 11-22/COM1 COMMUNICATIONS | SIA PANEL 11 D179 | SWITCHBOARD PANEL 22 D179 | INSTALL DC | 1 8 | #24 60 | SHIELDED |
| 11-22/SCDC DC SUPPLY | SIA PANEL 11 D178 | SWITCHBOARD PANEL 22 C31 | INSTALL 125 DC | 1 2 | #10 60 | 600V PIPJ |
| 11-23/SAL1 SUPERVISORY ALARM | SIA PANEL 11 D178 | SWITCHBOARD PANEL 23 D105 | INSTALL 125 DC | 1 2 | #16 55 | SHIELDED |
| 11-23/SCDC DC SUPPLY | SIA PANEL 11 D178 | SWITCHBOARD PANEL 23 D105 | INSTALL 125 DC | 1 2 | #10 55 | 600V PIPJ |
| 11-24/128SC SUPERVISORY CONTROL | SIA PANEL 11 D178 | SWITCHBOARD PANEL 24 D110 | INSTALL 125 DC | 1 4 | #10 50 | 600V PIPJ |
| 11-24/COM1 COMMUNICATIONS | SIA PANEL 11 D179 | SWITCHBOARD PANEL 24 D179 | INSTALL DC | 1 8 | #24 50 | SHIELDED |
| 11-24/SAL1 SUPERVISORY ALARM | SIA PANEL 11 D178 | SWITCHBOARD PANEL 24 D110 | INSTALL 125 DC | 1 2 | #16 50 | SHIELDED |

BILL OF WIRE

PROJECT ITEM:

BENCHMARK: 10G

1830742

WAYNESBORO PRIMARY

OP NUMBER: 10570778

| CIRCUIT CIRCUIT TYPE | FROM REFERENCE | TO REFERENCE | FUNCTION VOLTAGE | #CABLES #CONDS | SIZE LENGTH | INSULATION REMARKS/REVISION |
|---------------------------------------|---------------------------------|-------------------------------|-----------------------------------|---------------------------------|------------------------------|--|
| 10-23/C2 | OHB PANEL 10 D175 | SWITCHBOARD PANEL 23 D105 | REMOVE | | | |
| 10-23/MDC | OHB PANEL 10 D175 | SWITCHBOARD PANEL 23 D105 | REMOVE | | | |
| 11/COMM2 | SIA PANEL 11 D179 | SIA PANEL 11 D179 | REMOVE | | | |
| 11/COMM3 | SIA PANEL 11 D179 | SIA PANEL 11 D179 | REMOVE | | | |
| 11-12/COM1 | SIA PANEL 11 D179 | SWITCHBOARD PANEL 12 D179 | REMOVE | | | |
| 1-4/SDC | SUPV. REMOTE CAB. H3 | DC PANEL 1 D167 | REMOVE | | | |
| 158/SAL | SUPV. REMOTE CAB. H3 | PCB 158 D197 | REMOVE | | | |
| 21-23SAL | SWITCHBOARD PANEL 21 D96 | SWITCHBOARD PANEL 23 D105 | REMOVE | | | |
| 21ER20 | DFR PANEL 2 D72 | SWITCHBOARD PANEL 21 D96 | REMOVE | | | |
| 21SAL56 | SUPV. REMOTE CAB. H3 | SWITCHBOARD PANEL 21 D96 | REMOVE | | | |
| 21SAL57 | SUPV. REMOTE CAB. H3 | SWITCHBOARD PANEL 21 D96 | REMOVE | | | |
| 21SC02 | SUPV. INTERPOSER CAB. H4 | SWITCHBOARD PANEL 21 D96 | REMOVE | | | |
| 21SC10 | SUPV. INTERPOSER CAB. H4 | SWITCHBOARD PANEL 21 D96 | REMOVE | | | |
| 22KWH01 | SUPV. REMOTE CAB. H3 | SWITCHBOARD PANEL 22 C31 | REMOVE | | | |

BILL OF WIRE

BENCHMARK: 10G

PROJECT ITEM:

ALTO

OP NUMBER: 11073392

2006937

| CIRCUIT CIRCUIT TYPE | FROM REFERENCE | TO REFERENCE | FUNCTION VOLTAGE | #CABLES #CONDS | SIZE LENGTH | INSULATION REMARKS/REVISION |
|--------------------------------|---------------------------------------|--------------------------|---------------------|-------------------|----------------|--------------------------------|
| 7TM05 TELEMETERING | SWITCHBOARD PANEL #7 D24 | SUPV. REMOTE CAB. D21 | REMOVE DC | | | |
| 7TM14 TELEMETERING | SWITCHBOARD PANEL #7 D24 | SUPV. REMOTE CAB. D21 | REMOVE DC | | | |
| 7TM16 TELEMETERING | SWITCHBOARD PANEL #7 D24 | SUPV. REMOTE CAB. D21 | REMOVE DC | | | |
| 7TM18 TELEMETERING | SWITCHBOARD PANEL #7 D24 | SUPV. REMOTE CAB. D21 | REMOVE DC | | | |
| 8/SDC DC SUPPLY | SWITCHBOARD PANEL #8 D62 | SUPV. REMOTE CAB. D21 | REMOVE 125 DC | | | |
| 8-682/SAL SUPERVISORY ALARM | SWITCHBOARD PANEL #8 D62 | 12KV PCB 682 D79 | REMOVE 125 DC | | | |
| 8-702/SAL SUPERVISORY ALARM | SWITCHBOARD PANEL #8 D62 | 12KV PCB 702 D87 | REMOVE 125 DC | | | |
| BKA/TM TELEMETERING | 115/12KV BANK A D67 | SUPV. REMOTE CAB. D21 | REMOVE DC | | | |
| SAL16 SUPERVISORY ALARM | D.C. PANEL D17 | SUPV. REMOTE CAB. D21 | REMOVE 125 DC | | | |
| SAL27 SUPERVISORY ALARM | D.C. PANEL D17 | SUPV. REMOTE CAB. D21 | REMOVE 125 DC | | | D21 ONLY FOR RECORD |
| SAL28 SUPERVISORY ALARM | SWITCHBOARD PANEL #7 D24 | SUPV. REMOTE CAB. D21 | REMOVE 125 DC | | | D21 FOR RECORD |
| SAL29 SUPERVISORY ALARM | SWITCHBOARD PANEL #6 D39 (RETIRED) | SUPV. REMOTE CAB. D21 | REMOVE 125 DC | | | FOR RECORD |
| SC672 SUPERVISORY CONTROL | SUPV. INTERPOSER CAB. D21 | 12KV PCB 672 D48 | REMOVE 125 DC | | | |

DATE: 10/24/2024

LISTED: MCCULLOUGH, JM

FACILITY ID: 15-328-BW REV 00

BILL OF WIRE

PROJECT ITEM:

BENCHMARK: 99SZ

1988001

TEXAS VALLEY

OP NUMBER: 11057880

| CIRCUIT CIRCUIT TYPE | FROM REFERENCE | TO REFERENCE | FUNCTION VOLTAGE | #CABLES #CONDS | SIZE LENGTH | INSULATION REMARKS/REVISION |
|------------------------------------|--------------------------------|-------------------------------|---------------------|-------------------|----------------|--------------------------------|
| BTRL/DC(+) DC SUPPLY | BATTERY TRAILER D-54-003 | BATT TRAILER DISC D-54-001 | INSTALL 125 DC | 1 1 | #4/0 20 | 600V PIPJ |
| FCCP/AC AC SUPPLY | BATTERY CHARGER D-54-001 | AC PANEL D-54-004 | INSTALL 120 AC | 1 2 | #10 60 | 600V PIPJ |
| HOUSE AC & LIGHTING 1 AC SUPPLY | AC PANEL D-54-004 | | INSTALL 120 AC | 1 2 | #10 | 600V PIPJ |
| HOUSE AC & LIGHTING 2 AC SUPPLY | AC PANEL D-54-004 | | INSTALL 120 AC | 1 2 | #10 | 600V PIPJ |
| HVAC 1 AC SUPPLY | AC PANEL D-54-004 | | INSTALL 240 AC | 1 4 | #6 | 600V PIPJ |
| HVAC 2 AC SUPPLY | AC PANEL D-54-004 | | INSTALL 240 AC | 1 4 | #6 | 600V PIPJ |
| JB1-JB2 AC SUPPLY | Y.L.-JB1 D-54-004 | Y.L.-JB2 D-54-004 | INSTALL 120 AC | 1 2 | #10 170 | 600V PIPJ |
| PBAC AC SUPPLY | BATTERY CHARGER D-54-001 | AC PANEL D-54-004 | INSTALL 120 AC | 1 4 | #6 60 | 600V SH |
| PBDC DC SUPPLY | BATTERY CHARGER D-54-001 | DC PANEL D-54-002 | INSTALL 125 DC | 1 2 | #10 30 | 600V PIPJ |
| PDC(-) DC SUPPLY | BATTERY DISCONNECT D-54-001 | DC PANEL D-54-002 | INSTALL 125 DC | 1 1 | #4/0 30 | 600V PIPJ |
| PDC(+) DC SUPPLY | BATTERY DISCONNECT D-54-001 | DC PANEL D-54-002 | INSTALL 125 DC | 1 1 | #4/0 30 | 600V PIPJ |
| SSA-3L1 AC SUPPLY | SSA SAFETY D-54-004 | SS-ATS D-54-004 | INSTALL 240 AC | 1 1 | #2 175 | 600V PIPJ |
| SSA-3L2 AC SUPPLY | SSA SAFETY D-54-004 | SS-ATS D-54-004 | INSTALL 240 AC | 1 1 | #2 175 | 600V PIPJ |
| SSA-NN AC SUPPLY | SSA SAFETY D-54-004 | SS-ATS D-54-004 | INSTALL 240 AC | 1 1 | #2 175 | 600V PIPJ |

| CIRCUIT CIRCUIT TYPE | FROM REFERENCE | TO REFERENCE | FUNCTION VOLTAGE | #CABLES #CONDS | SIZE LENGTH | INSULATION REMARKS/REVISION |
|------------------------------|---------------------------------|---------------------------------|---------------------|-------------------|----------------|--------------------------------|
| 9-BKA/COM1 COMMUNICATIONS | SIA PANEL #9 D97-004 | 115-12KV BANK A 2414 D97-004 | INSTALL DC | 1 4 | 200M 100 | FIBER OPTIC |
| 9-RAD/COM1 COMMUNICATIONS | SIA PANEL #9 - 3620H D97-004 | RADIO- ETH1 D97-004 | INSTALL DC | 1 8 | #24 50 | SHIELDED |
| 9-RAD/COM2 COMMUNICATIONS | SIA PANEL #9 D97-004 | RADIO BB1 D97-004 | RENAME DC | 1 4 | #24 | SHIELDED WAS 592/COM1 |