

24VDC TO
10229-72-DWG-3025

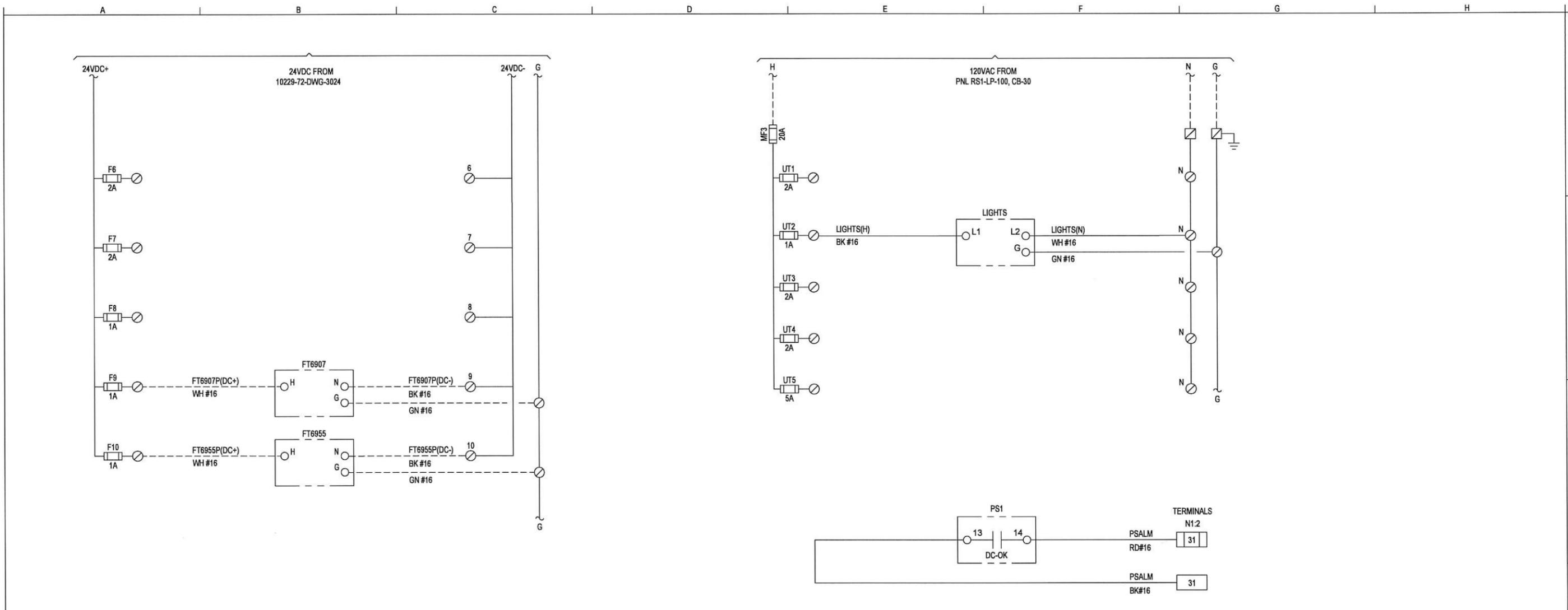
- LEGEND:**
- DEVICE WIRING
 - - - EXTERNAL/FIELD WIRING
 - ⊗ PLC CABINET TERMINAL
 - INSTRUMENT/MODULE TERMINAL
 - ⊠ POWER TERMINAL



FASKEN OIL AND RANCH
FRAC WATER PIPELINE
72 - INSTRUMENTATION & CONTROLS
RISER #1 PLC PANEL
I/O WIRING DIAGRAM (1 OF 2)

| REVISIONS | | | | | |
|-----------|----------|-------------------------|------|------|-----|
| REV | DATE | DESCRIPTION | DRWN | CHKD | APP |
| 0 | 09/29/23 | ISSUED FOR CONSTRUCTION | CMK | DG | TH |

JOB No: 10229
DRAWING NO: 10229-72-DWG-3024
REV: 0



POWER SUPPLY ALARM CIRCUIT DETAIL

- LEGEND:**
- DEVICE WIRING
 - - - EXTERNAL/FIELD WIRING
 - ⊗ PLC CABINET TERMINAL
 - INSTRUMENT/MODULE TERMINAL
 - ⊠ POWER TERMINAL

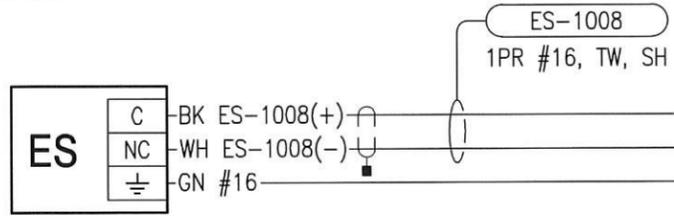
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| REV | DATE | DESCRIPTION | DRWN | CHKD | APP |
| 0 | 09/29/23 | ISSUED FOR CONSTRUCTION | CMK | DG | TH |



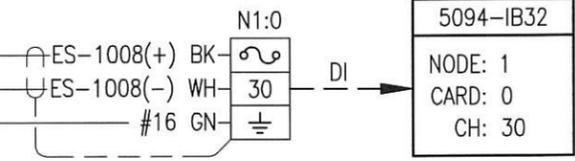
FASKEN OIL AND RANCH
 FRAC WATER PIPELINE
 72 - INSTRUMENTATION & CONTROLS
 RISER #1 PLC PANEL
 I/O WIRING DIAGRAM (2 OF 2)

| | | |
|------------------|----------------------------------|-----------|
| JOB No: 10229 | DRAWING NO: 10229-72-DWG-3025 | REV: 0 |
|------------------|----------------------------------|-----------|

ES-1008



RS1-PLC-100



RISER #1 E-STOP LOOP

NOTES:

1. CONTRACTOR TO LABEL CABLES AND CONDUCTORS AS INDICATED. CABLES AND CONDUCTORS SHALL BE LABELED ON BOTH ENDS.
2. CONTRACTOR TO CUT AND TAPE SHIELDS AS INDICATED.
3. ALL CONDUCTORS ARE #16 UNLESS OTHERWISE NOTED.
4. ALL INPUTS ARE FUSED 0.1 AMPS ALL OUTPUTS ARE FUSED 0.5 AMPS.



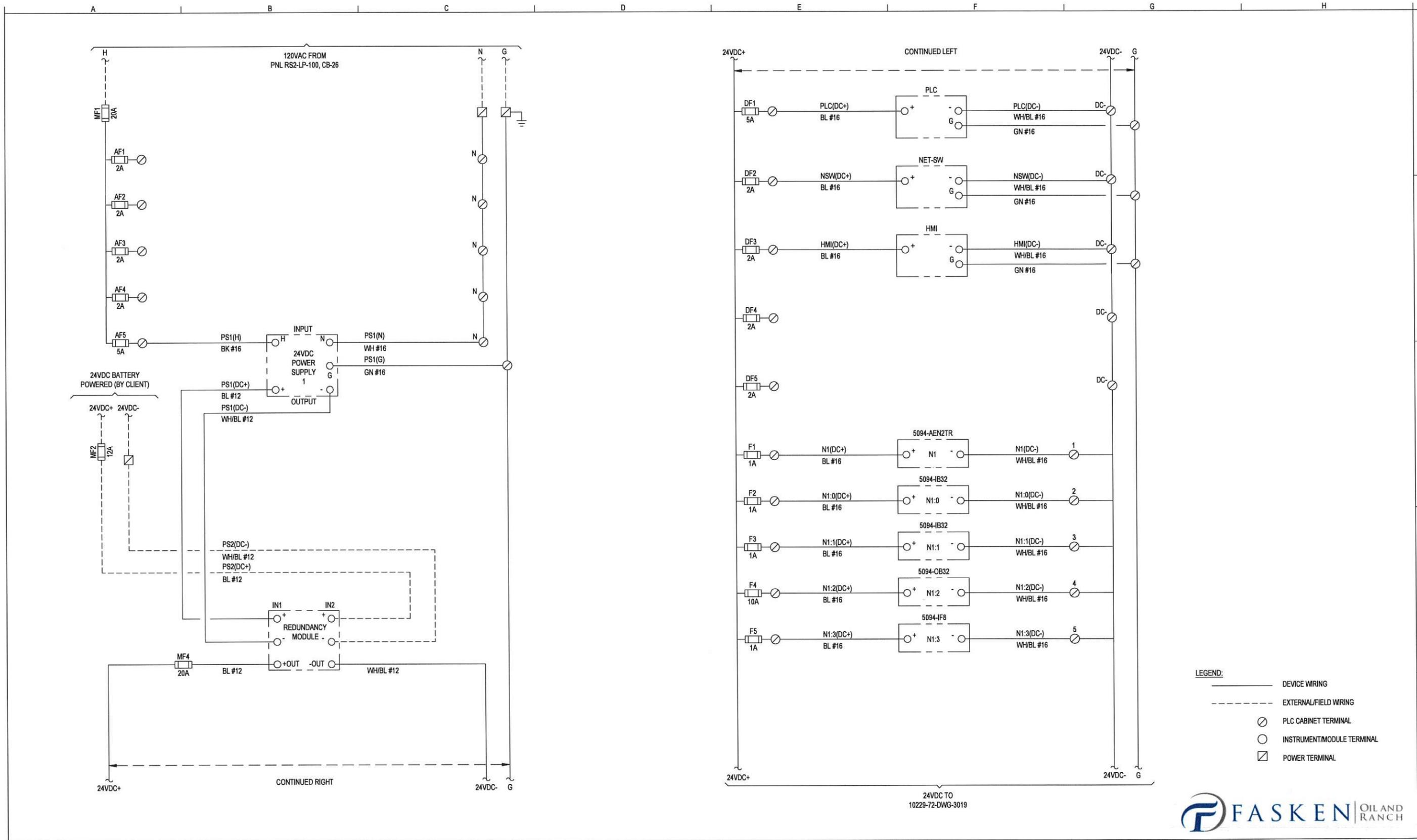
| REVISIONS | | | | | |
|-----------|----------|-------------------------|------|------|-----|
| REV | DATE | DESCRIPTION | DRWN | CHKD | APP |
| 0 | 10/31/23 | ISSUED FOR CONSTRUCTION | DJL | DG | TH |

ONWARD RESOURCES, LLC.
TEXAS REGISTERED ENGINEERING FIRM, F-24097

ATSI
415 Commerce Drive
Amherst, NY 14228
716-691-9200 ATSI.COM

FASKEN OIL AND RANCH
FRAC WATER PIPELINE
72- INSTRUMENTATION & CONTROLS
RISER #1 E-STOP
LOOP DRAWING

| | | |
|------------------|----------------------------------|-----------|
| JOB No: 10229 | DRAWING NO: 10229-72-DWG-4074 | REV: 0 |
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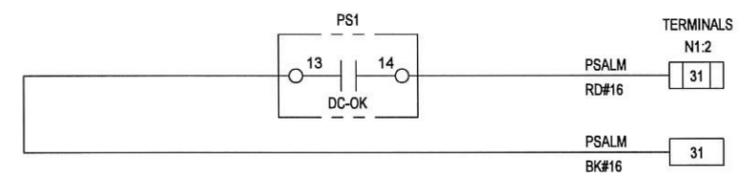
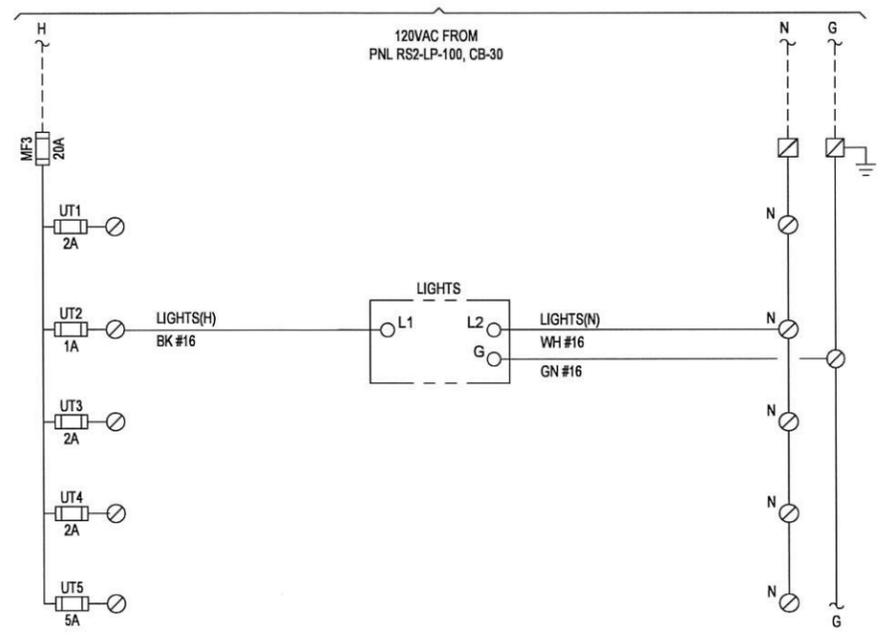
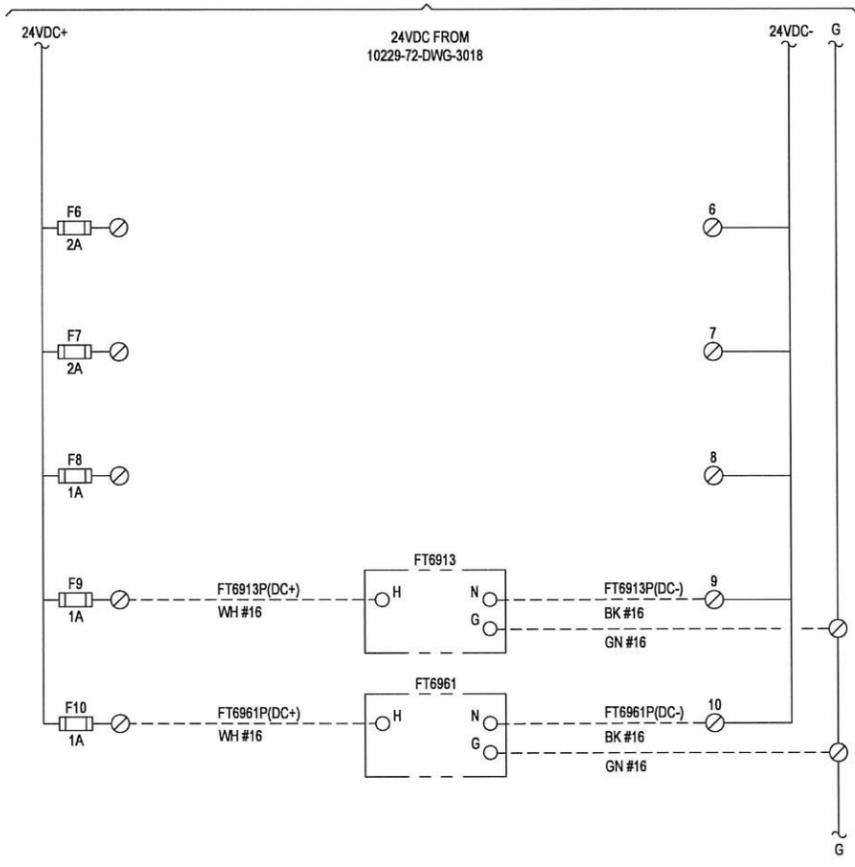
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|-----------|----------|-------------------------|------|-------|
| REV | DATE | DESCRIPTION | DRWN | CHKD |
| 0 | 09/29/23 | ISSUED FOR CONSTRUCTION | CMK | DG TH |
| | | | | |
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FASKEN OIL AND RANCH
FRAC WATER PIPELINE
72 - INSTRUMENTATION & CONTROLS
RISER #2 PLC PANEL
I/O WIRING DIAGRAM (1 OF 2)

JOB No: 10229
DRAWING NO: 10229-72-DWG-3018
REV: 0

A B C D E F G H



POWER SUPPLY ALARM CIRCUIT DETAIL

- LEGEND:
- DEVICE WIRING
 - - - EXTERNAL/FIELD WIRING
 - ⊗ PLC CABINET TERMINAL
 - INSTRUMENT/MODULE TERMINAL
 - ⊠ POWER TERMINAL



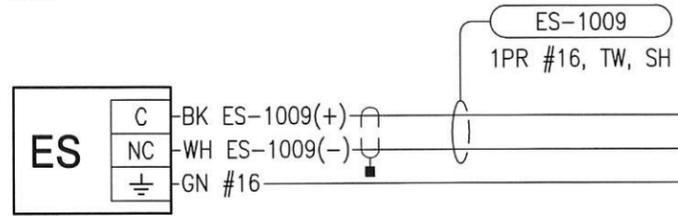
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| REV | DATE | DESCRIPTION | DRWN | CHKD | APP |
| 0 | 09/29/23 | ISSUED FOR CONSTRUCTION | CMK | DG | TH |



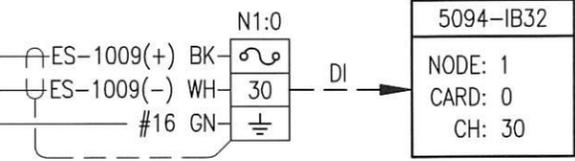
FASKEN OIL AND RANCH
FRAC WATER PIPELINE
72 - INSTRUMENTATION & CONTROLS
RISER #2 PLC PANEL
I/O WIRING DIAGRAM (2 OF 2)

| | | |
|------------------|----------------------------------|-----------|
| JOB No: 10229 | DRAWING NO: 10229-72-DWG-3019 | REV: 0 |
|------------------|----------------------------------|-----------|

ES-1009



RS2-PLC-100



RISER #2 E-STOP LOOP

NOTES:

1. CONTRACTOR TO LABEL CABLES AND CONDUCTORS AS INDICATED. CABLES AND CONDUCTORS SHALL BE LABELED ON BOTH ENDS.
2. CONTRACTOR TO CUT AND TAPE SHIELDS AS INDICATED.
3. ALL CONDUCTORS ARE #16 UNLESS OTHERWISE NOTED.
4. ALL INPUTS ARE FUSED 0.1 AMPS ALL OUTPUTS ARE FUSED 0.5 AMPS.



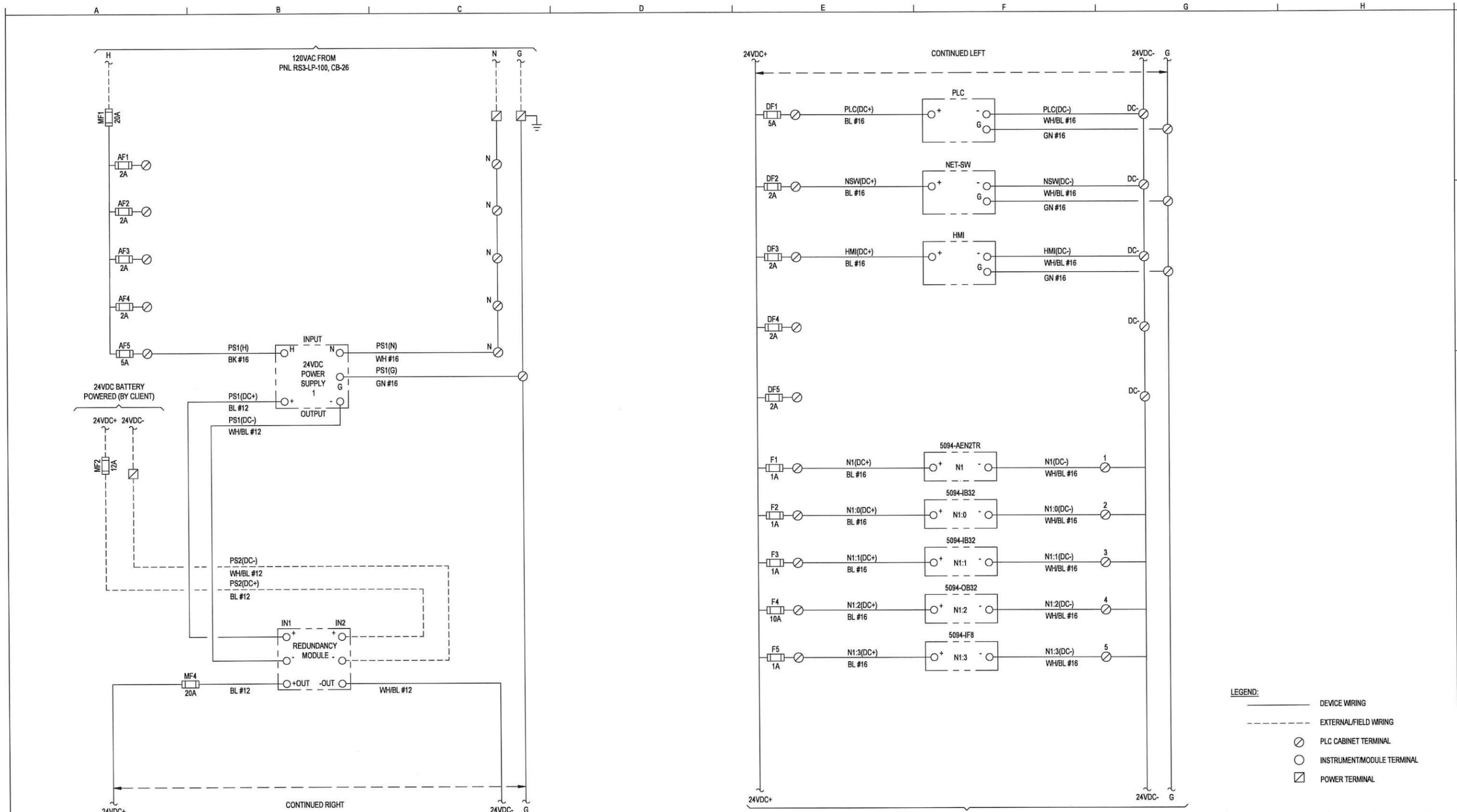
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| REV | DATE | DESCRIPTION | DRWN | CHKD | APP |
| 0 | 10/31/23 | ISSUED FOR CONSTRUCTION | DJL | DG | TH |

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FASKEN OIL AND RANCH
FRAC WATER PIPELINE
72- INSTRUMENTATION & CONTROLS
RISER #2 E-STOP
LOOP DRAWING

JOB No: 10229
DRAWING NO: 10229-72-DWG-4084
REV: 0



24VDC TO 10229-72-DWG-3013

LEGEND:
 ——— DEVICE WIRING
 - - - - - EXTERNAL/FIELD WIRING
 ⊗ PLC CABINET TERMINAL
 ○ INSTRUMENT/MODULE TERMINAL
 □ POWER TERMINAL

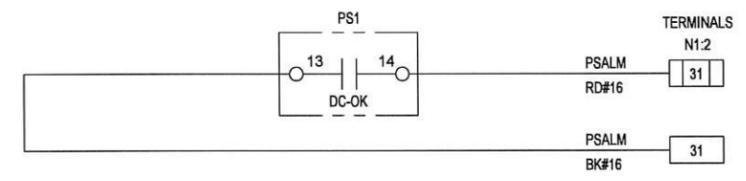
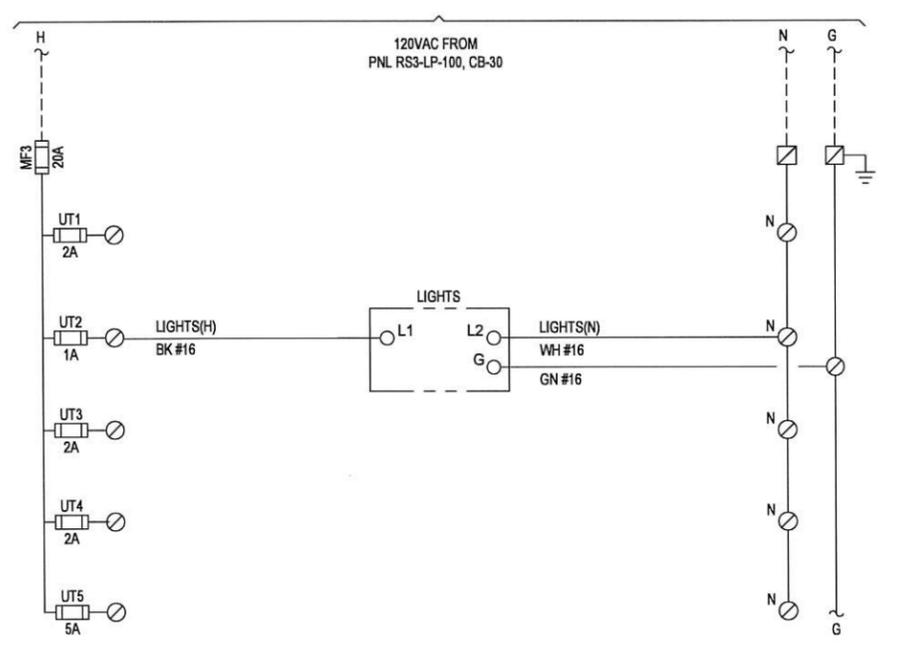
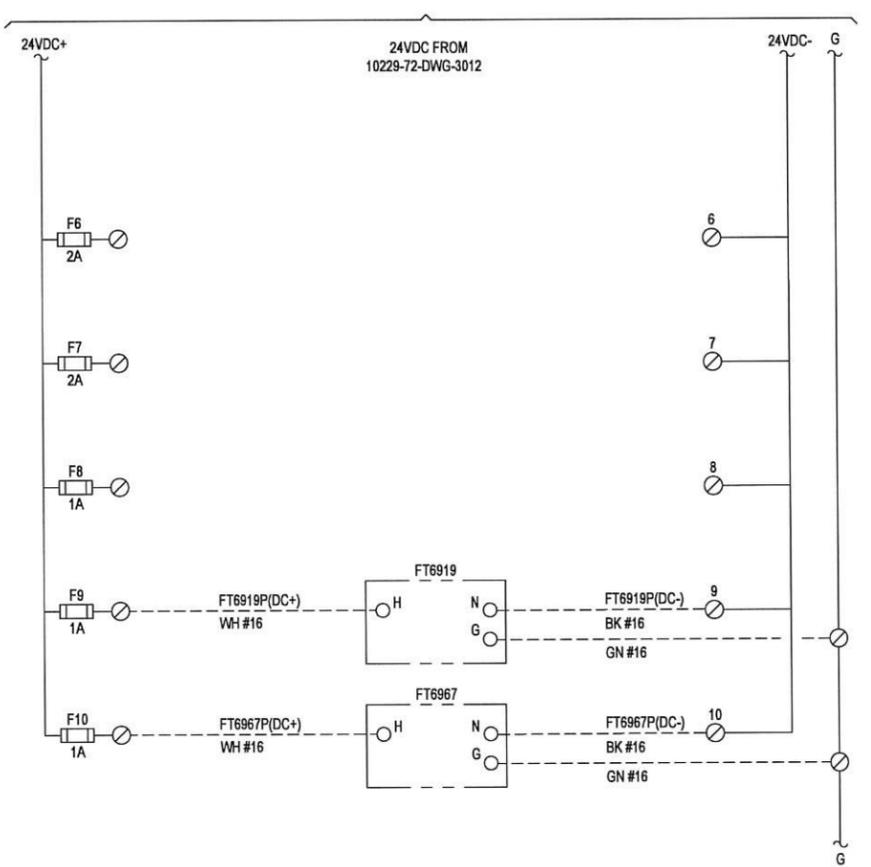


FASKEN OIL AND RANCH
 FRAC WATER PIPELINE
 72 - INSTRUMENTATION & CONTROLS
 RISER #3 PLC PANEL
 I/O WIRING DIAGRAM (1 OF 2)

| REVISIONS | | | | | |
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| REV | DATE | DESCRIPTION | DRWN | CHKD | APP |
| 0 | 09/29/23 | ISSUED FOR CONSTRUCTION | CMK | DG | TH |

JOB No: 10229
 DRAWING NO: 10229-72-DWG-3012
 REV: 0

A B C D E F G H



POWER SUPPLY ALARM CIRCUIT DETAIL

- LEGEND:
- DEVICE WIRING
 - - - EXTERNAL/FIELD WIRING
 - ⊗ PLC CABINET TERMINAL
 - INSTRUMENT/MODULE TERMINAL
 - ⊠ POWER TERMINAL



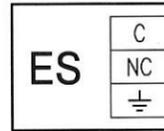
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|-----------|----------|-------------------------|------|------|-----|
| REV | DATE | DESCRIPTION | DRWN | CHKD | APP |
| 0 | 09/29/23 | ISSUED FOR CONSTRUCTION | CMK | DG | TH |



FASKEN OIL AND RANCH
FRAC WATER PIPELINE
72 - INSTRUMENTATION & CONTROLS
RISER #3 PLC PANEL
I/O WIRING DIAGRAM (2 OF 2)

JOB No: 10229 DRAWING NO: 10229-72-DWG-3013 REV: 0

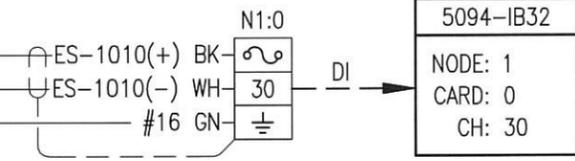
ES-1010



BK ES-1010(+)
WH ES-1010(-)
GN #16

ES-1010
1PR #16, TW, SH

RS3-PLC-100



5094-IB32
NODE: 1
CARD: 0
CH: 30

RISER #3 E-STOP LOOP

NOTES:

1. CONTRACTOR TO LABEL CABLES AND CONDUCTORS AS INDICATED. CABLES AND CONDUCTORS SHALL BE LABELED ON BOTH ENDS.
2. CONTRACTOR TO CUT AND TAPE SHIELDS AS INDICATED.
3. ALL CONDUCTORS ARE #16 UNLESS OTHERWISE NOTED.
4. ALL INPUTS ARE FUSED 0.1 AMPS ALL OUTPUTS ARE FUSED 0.5 AMPS.



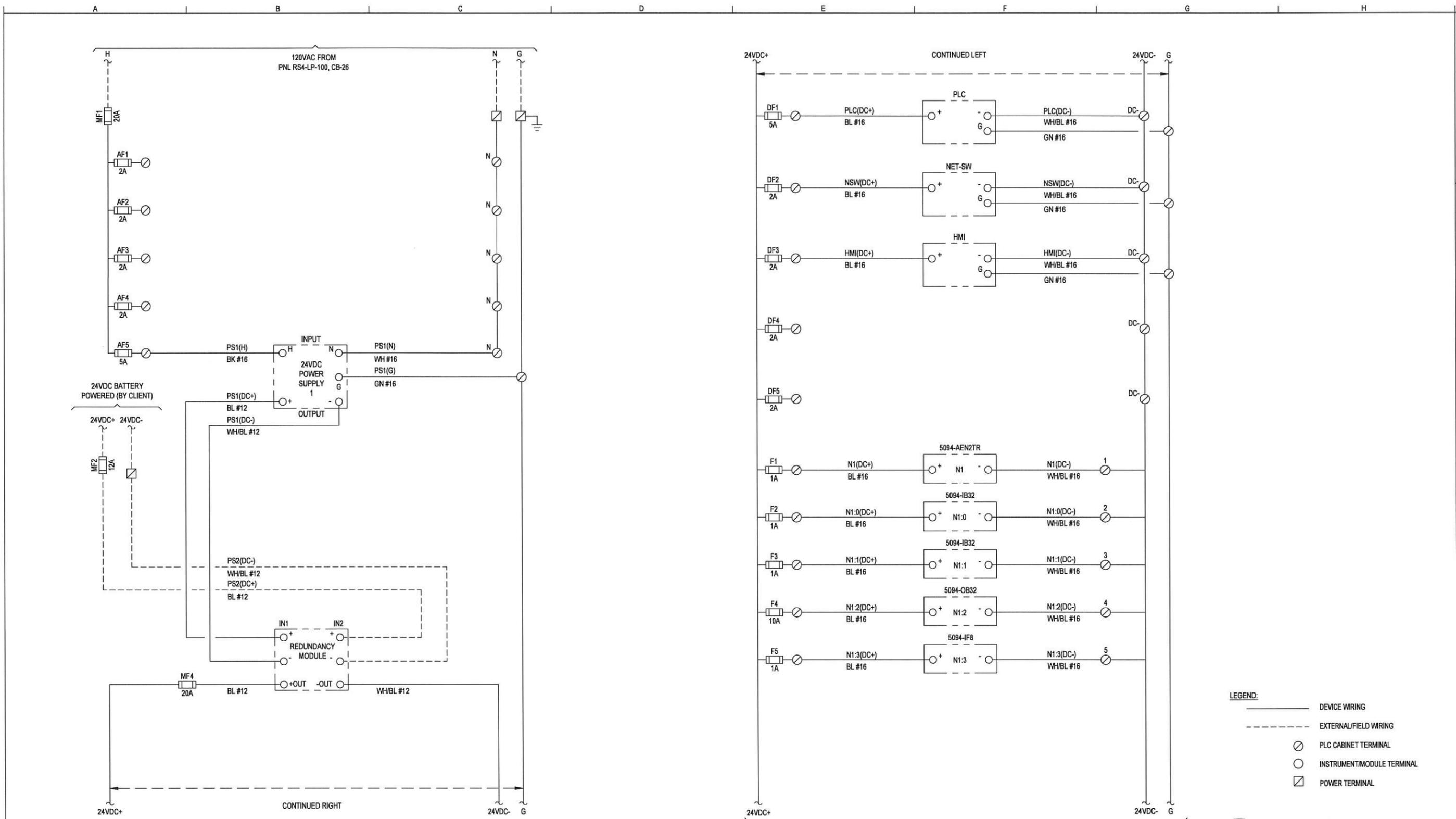
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| REV | DATE | DESCRIPTION | DRWN | CHKD | APP |
| 0 | 10/31/23 | ISSUED FOR CONSTRUCTION | DJL | DG | TH |

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FASKEN OIL AND RANCH
FRAC WATER PIPELINE
72- INSTRUMENTATION & CONTROLS
RISER #3 E-STOP
LOOP DRAWING

JOB No: 10229
DRAWING NO: 10229-72-DWG-4094
REV: 0



24VDC TO
10229-72-DWG-3001

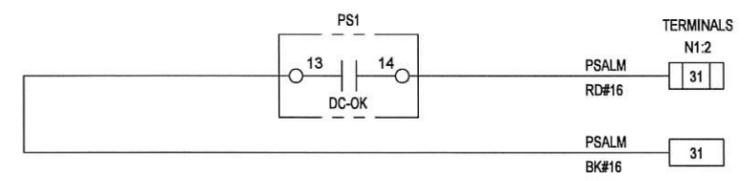
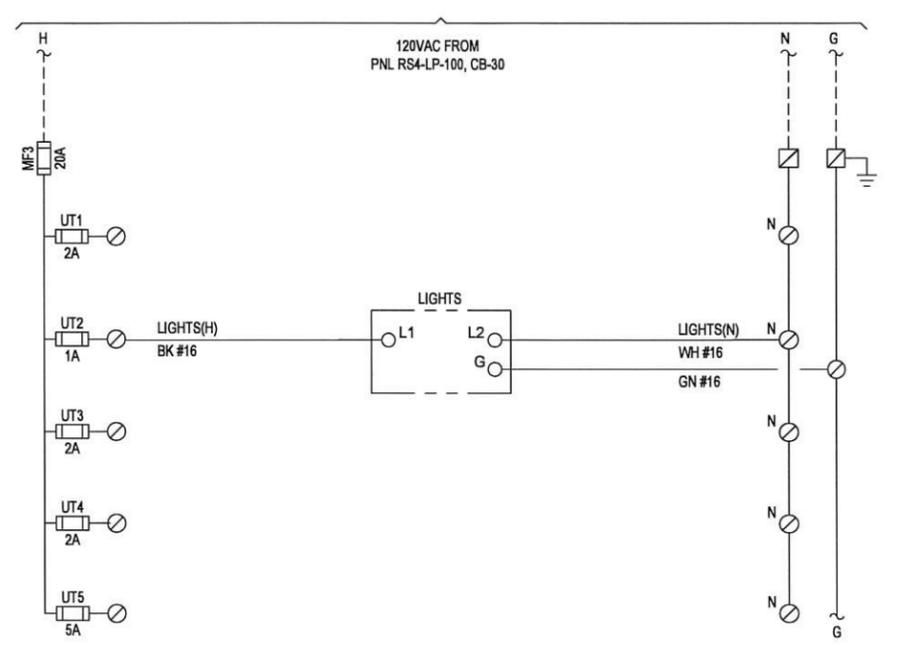
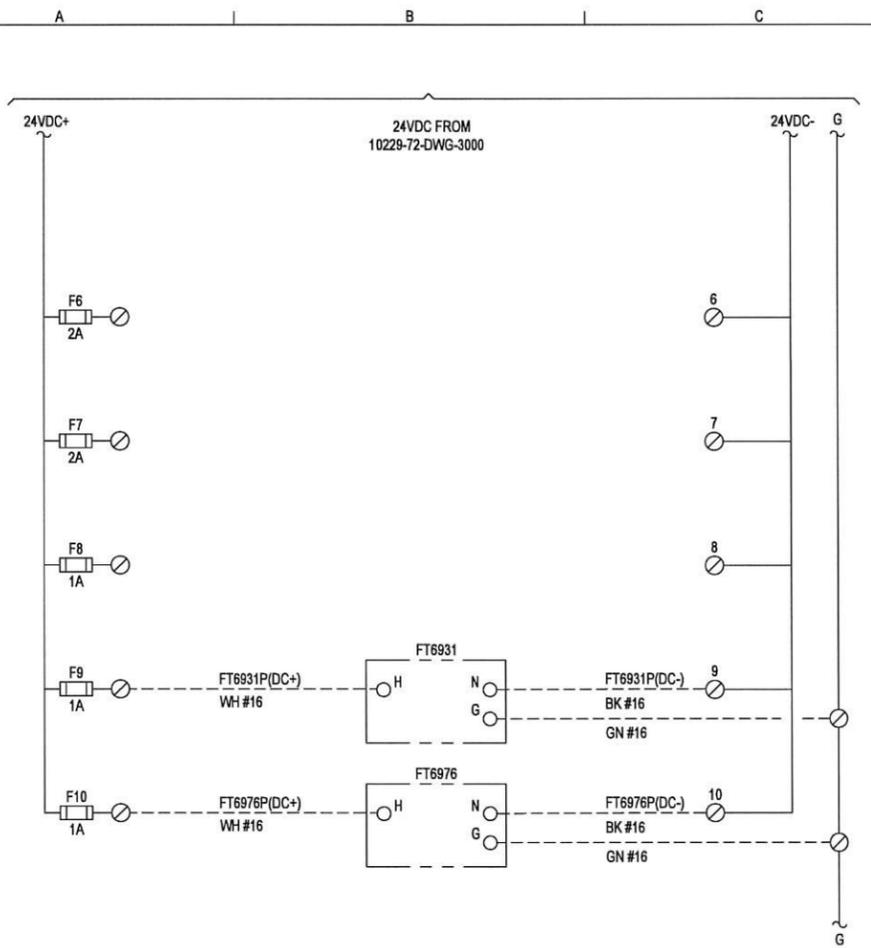


| REVISIONS | | | | | |
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| REV | DATE | DESCRIPTION | DRWN | CHKD | APP |
| 0 | 09/29/23 | ISSUED FOR CONSTRUCTION | CMK | DG | TH |



FASKEN OIL AND RANCH
FRAC WATER PIPELINE
72 - INSTRUMENTATION & CONTROLS
RISER #4 PLC PANEL
I/O WIRING DIAGRAM (1 OF 2)

| | | |
|------------------|----------------------------------|-----------|
| JOB No: 10229 | DRAWING NO: 10229-72-DWG-3000 | REV: 0 |
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POWER SUPPLY ALARM CIRCUIT DETAIL

- LEGEND:
- DEVICE WIRING
 - - - EXTERNAL/FIELD WIRING
 - ⊗ PLC CABINET TERMINAL
 - INSTRUMENT/MODULE TERMINAL
 - ⊠ POWER TERMINAL



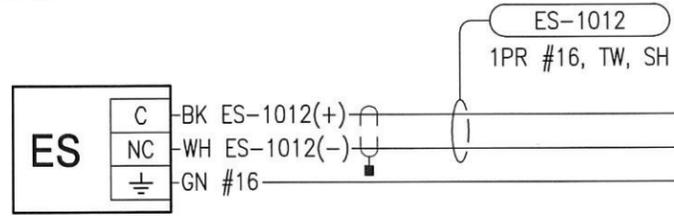
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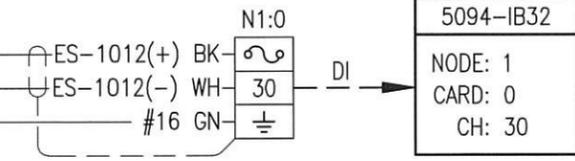
FASKEN OIL AND RANCH
FRAC WATER PIPELINE
72 - INSTRUMENTATION & CONTROLS
RISER #4 PLC PANEL
I/O WIRING DIAGRAM (2 OF 2)

| | | |
|------------------|----------------------------------|-----------|
| JOB No: 10229 | DRAWING NO: 10229-72-DWG-3001 | REV: 0 |
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ES-1012



RS4-PLC-100



RISER #4 E-STOP LOOP

NOTES:

1. CONTRACTOR TO LABEL CABLES AND CONDUCTORS AS INDICATED. CABLES AND CONDUCTORS SHALL BE LABELED ON BOTH ENDS.
2. CONTRACTOR TO CUT AND TAPE SHIELDS AS INDICATED.
3. ALL CONDUCTORS ARE #16 UNLESS OTHERWISE NOTED.
4. ALL INPUTS ARE FUSED 0.1 AMPS ALL OUTPUTS ARE FUSED 0.5 AMPS.



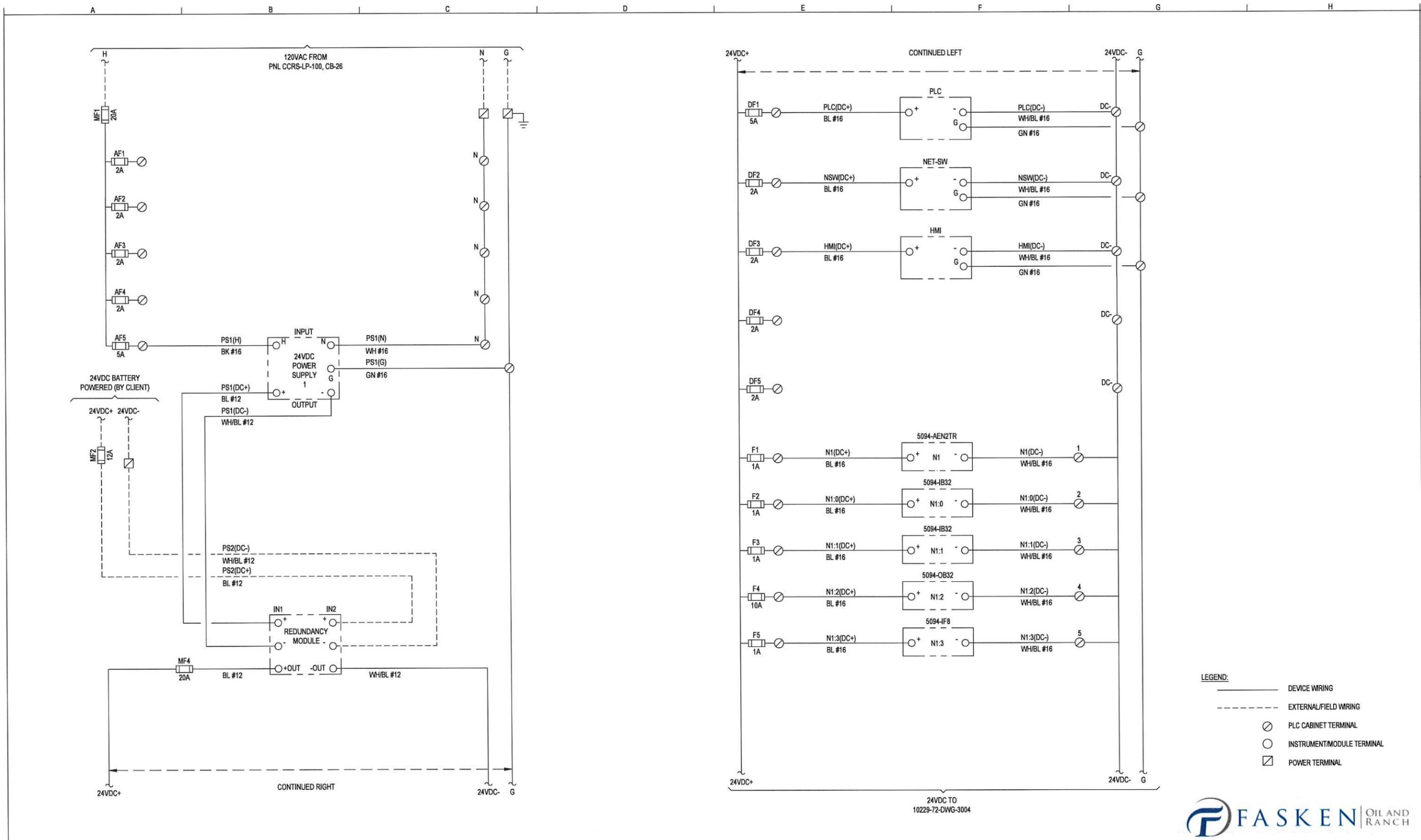
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| 0 | 10/31/23 | ISSUED FOR CONSTRUCTION | DJL | DG | TH |

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FASKEN OIL AND RANCH
FRAC WATER PIPELINE
72- INSTRUMENTATION & CONTROLS
RISER #4 E-STOP
LOOP DRAWING

JOB No: 10229 DRAWING NO: 10229-72-DWG-4114 REV: 0

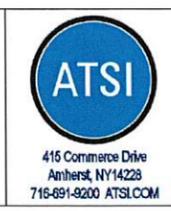


- LEGEND:**
- DEVICE WIRING
 - - - EXTERNAL/FIELD WIRING
 - ⊗ PLC CABINET TERMINAL
 - INSTRUMENT/MODULE TERMINAL
 - ⊠ POWER TERMINAL

24VDC TO
10229-72-DWG-3004



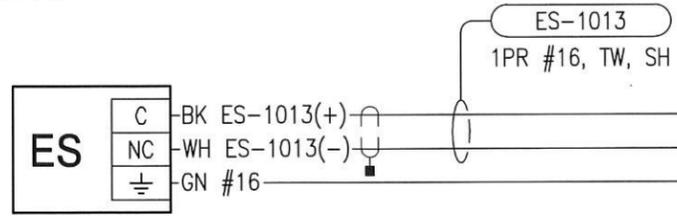
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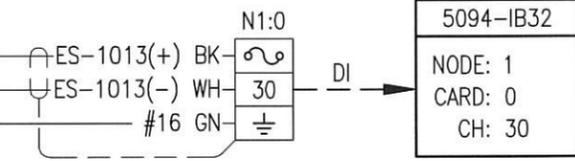
FASKEN OIL AND RANCH
FRAC WATER PIPELINE
72 - INSTRUMENTATION & CONTROLS
CC RISER PLC PANEL
I/O WIRING DIAGRAM (1 OF 2)

JOB No: 10229
DRAWING NO: 10229-72-DWG-3003
REV: 0

ES-1013



CCRS-PLC-100



CC RISER E-STOP LOOP

NOTES:

1. CONTRACTOR TO LABEL CABLES AND CONDUCTORS AS INDICATED. CABLES AND CONDUCTORS SHALL BE LABELED ON BOTH ENDS.
2. CONTRACTOR TO CUT AND TAPE SHIELDS AS INDICATED.
3. ALL CONDUCTORS ARE #16 UNLESS OTHERWISE NOTED.
4. ALL INPUTS ARE FUSED 0.1 AMPS ALL OUTPUTS ARE FUSED 0.5 AMPS.



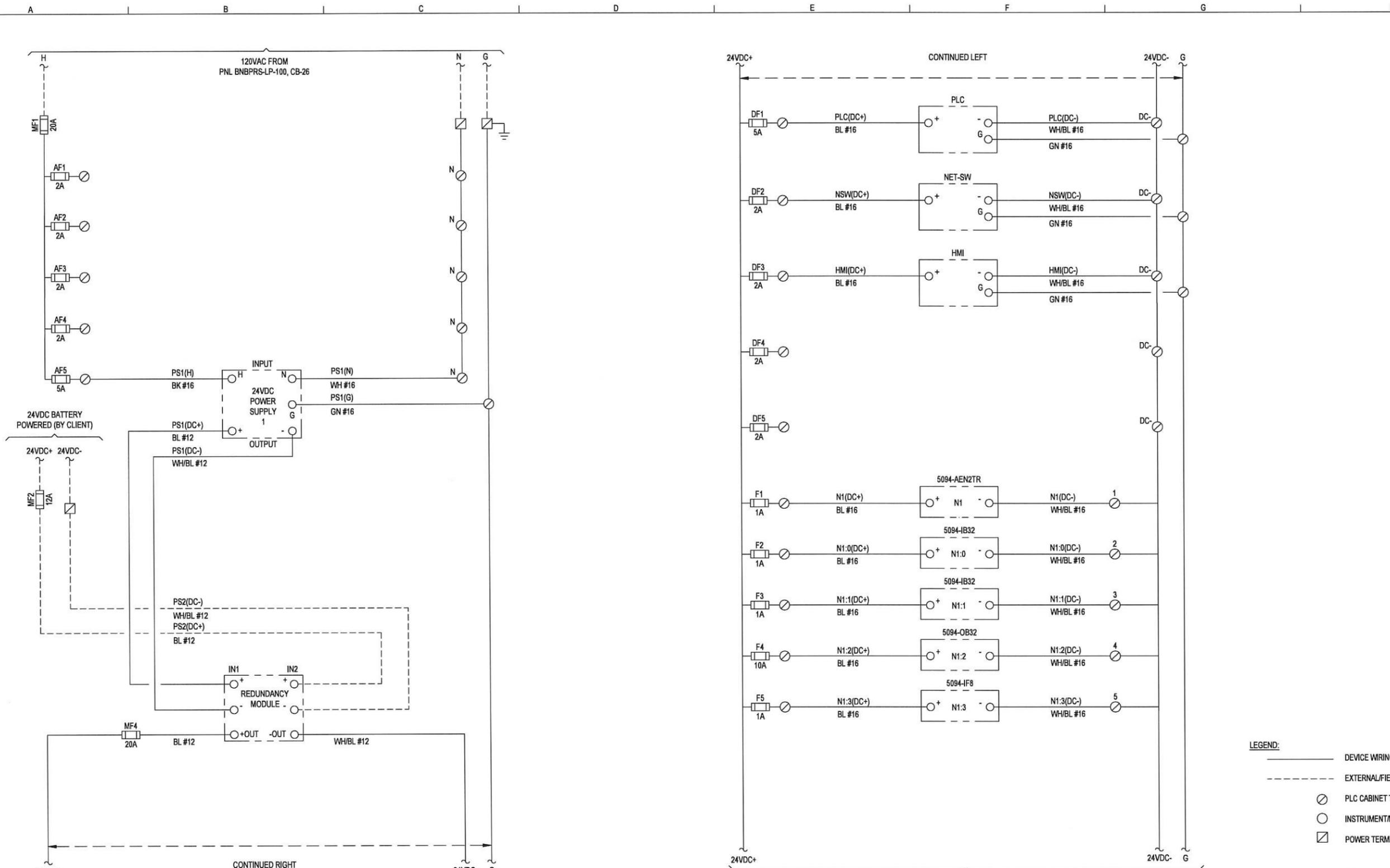
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| REV | DATE | DESCRIPTION | DRWN | CHKD | APP |
| 0 | 10/31/23 | ISSUED FOR CONSTRUCTION | DJL | DG | TH |

ONWARD RESOURCES, LLC.
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FASKEN OIL AND RANCH
FRAC WATER PIPELINE
72- INSTRUMENTATION & CONTROLS
CC RISER E-STOP
LOOP DRAWING

JOB No: 10229
DRAWING NO: 10229-72-DWG-4123
REV: 0



24VDC TO
10229-72-DWG-3028

- LEGEND:**
- DEVICE WIRING
 - - - EXTERNAL/FIELD WIRING
 - ⊗ PLC CABINET TERMINAL
 - INSTRUMENT/MODULE TERMINAL
 - ⊠ POWER TERMINAL

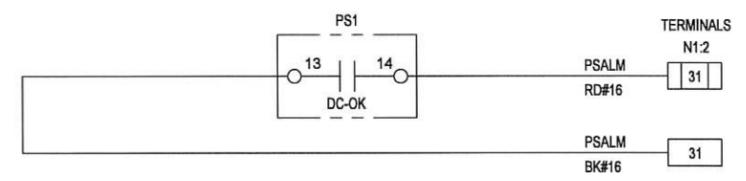
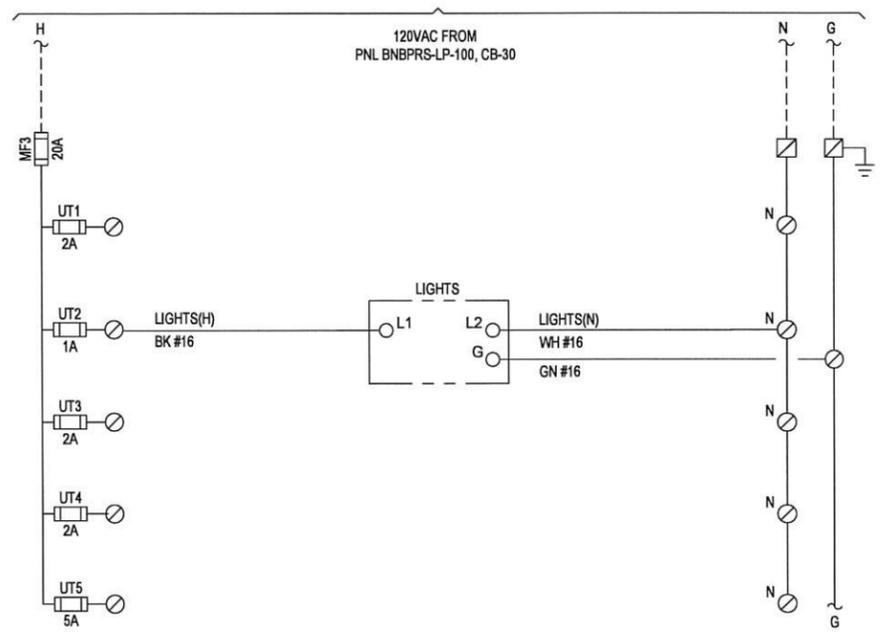
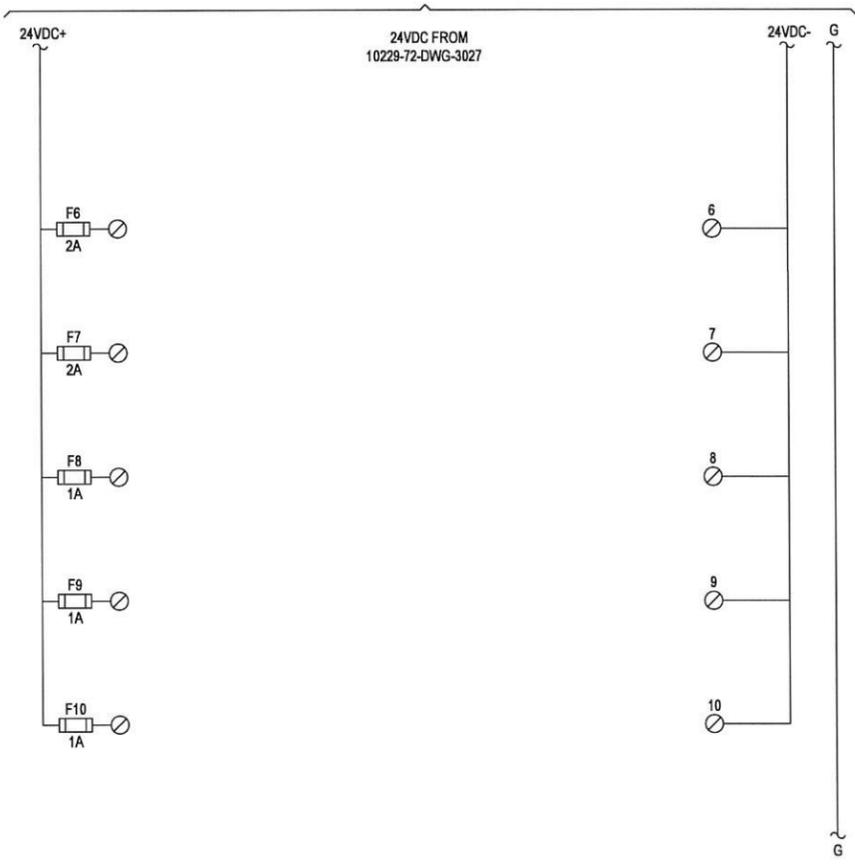


| REVISIONS | | | | |
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| REV | DATE | DESCRIPTION | DRWN | CHKD |
| 0 | 09/29/23 | ISSUED FOR CONSTRUCTION | CMK | DG TH |
| | | | DRWN | CHKD APP |



FASKEN OIL AND RANCH
FRAC WATER PIPELINE
72 - INSTRUMENTATION & CONTROLS
BN/BP RISER PLC PANEL
I/O WIRING DIAGRAM (1 OF 2)

| | | |
|------------------|----------------------------------|-----------|
| JOB No: 10229 | DRAWING NO: 10229-72-DWG-3027 | REV: 0 |
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POWER SUPPLY ALARM CIRCUIT DETAIL

- LEGEND:
- DEVICE WIRING
 - - - EXTERNAL/FIELD WRING
 - ⊗ PLC CABINET TERMINAL
 - INSTRUMENT/MODULE TERMINAL
 - ⊠ POWER TERMINAL



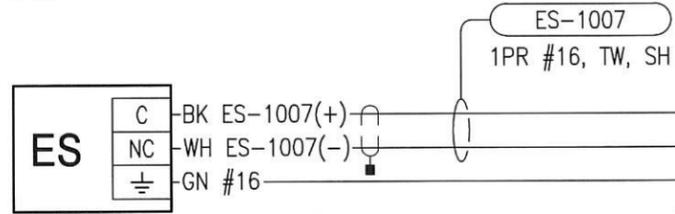
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| REV | DATE | DESCRIPTION | DRWN | CHKD | APP |
| 0 | 09/29/23 | ISSUED FOR CONSTRUCTION | CMK | DG | TH |



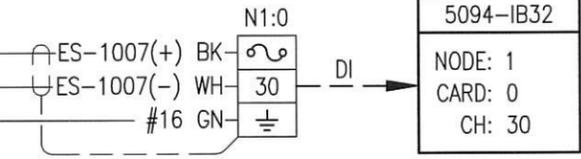
FASKEN OIL AND RANCH
FRAC WATER PIPELINE
72 - INSTRUMENTATION & CONTROLS
BN/BP RISER PLC PANEL
I/O WIRING DIAGRAM (2 OF 2)

| | | |
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| JOB No: 10229 | DRAWING NO: 10229-72-DWG-3028 | REV: 0 |
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ES-1007



BNBPRS-PLC-100



BN/BP RISER E-STOP LOOP

NOTES:

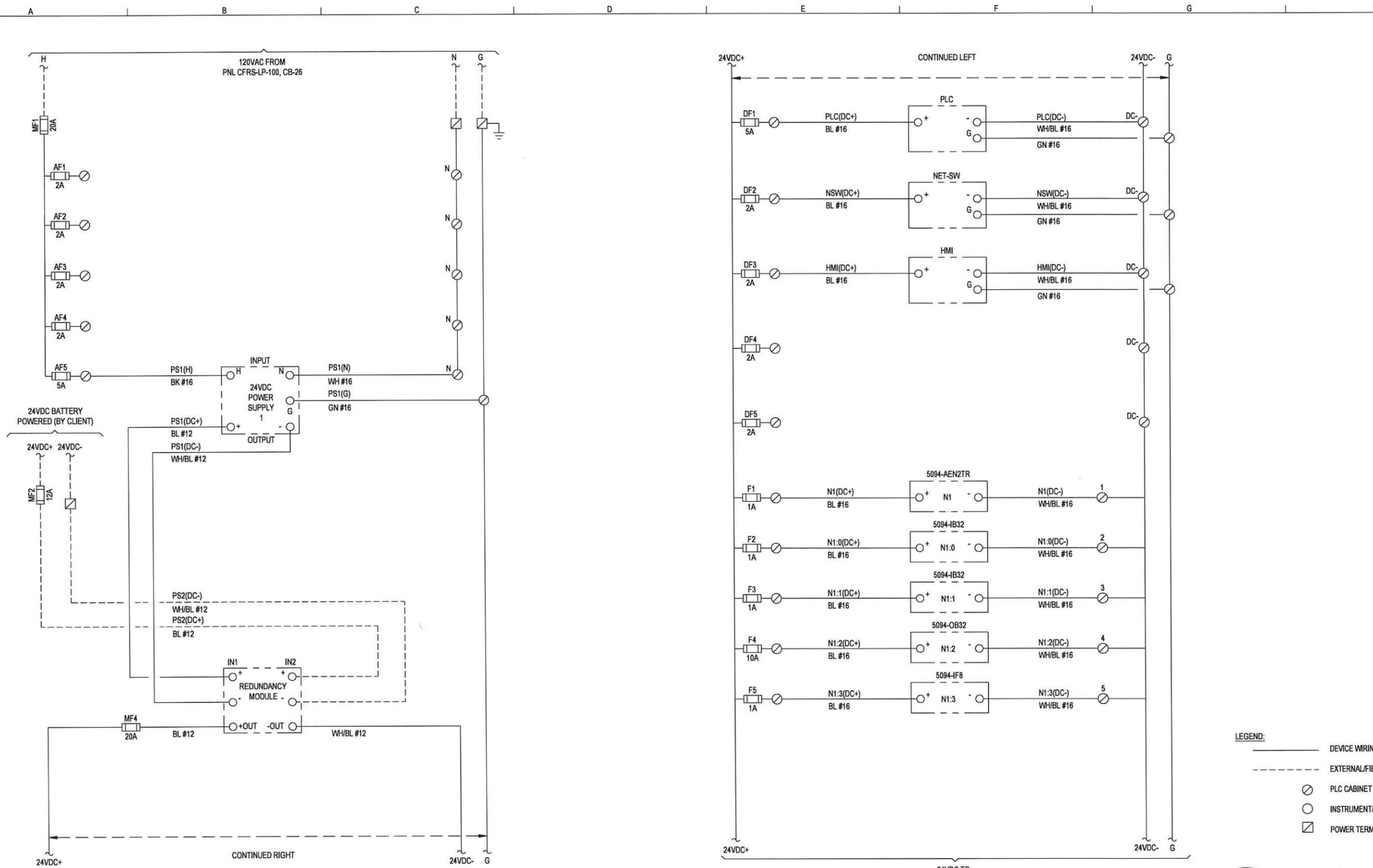
1. CONTRACTOR TO LABEL CABLES AND CONDUCTORS AS INDICATED. CABLES AND CONDUCTORS SHALL BE LABELED ON BOTH ENDS.
2. CONTRACTOR TO CUT AND TAPE SHIELDS AS INDICATED.
3. ALL CONDUCTORS ARE #16 UNLESS OTHERWISE NOTED.
4. ALL INPUTS ARE FUSED 0.1 AMPS ALL OUTPUTS ARE FUSED 0.5 AMPS.



| REVISIONS | | | | | |
|-----------|----------|-------------------------|------|------|-----|
| REV | DATE | DESCRIPTION | DRWN | CHKD | APP |
| 0 | 10/31/23 | ISSUED FOR CONSTRUCTION | DJL | DG | TH |

FASKEN OIL AND RANCH
FRAC WATER PIPELINE
72- INSTRUMENTATION & CONTROLS
BN/BP RISER E-STOP
LOOP DRAWING

JOB No: 10229 DRAWING NO: 10229-72-DWG-4063 REV: 0



24VDC TO
10229-72-DWG-3037

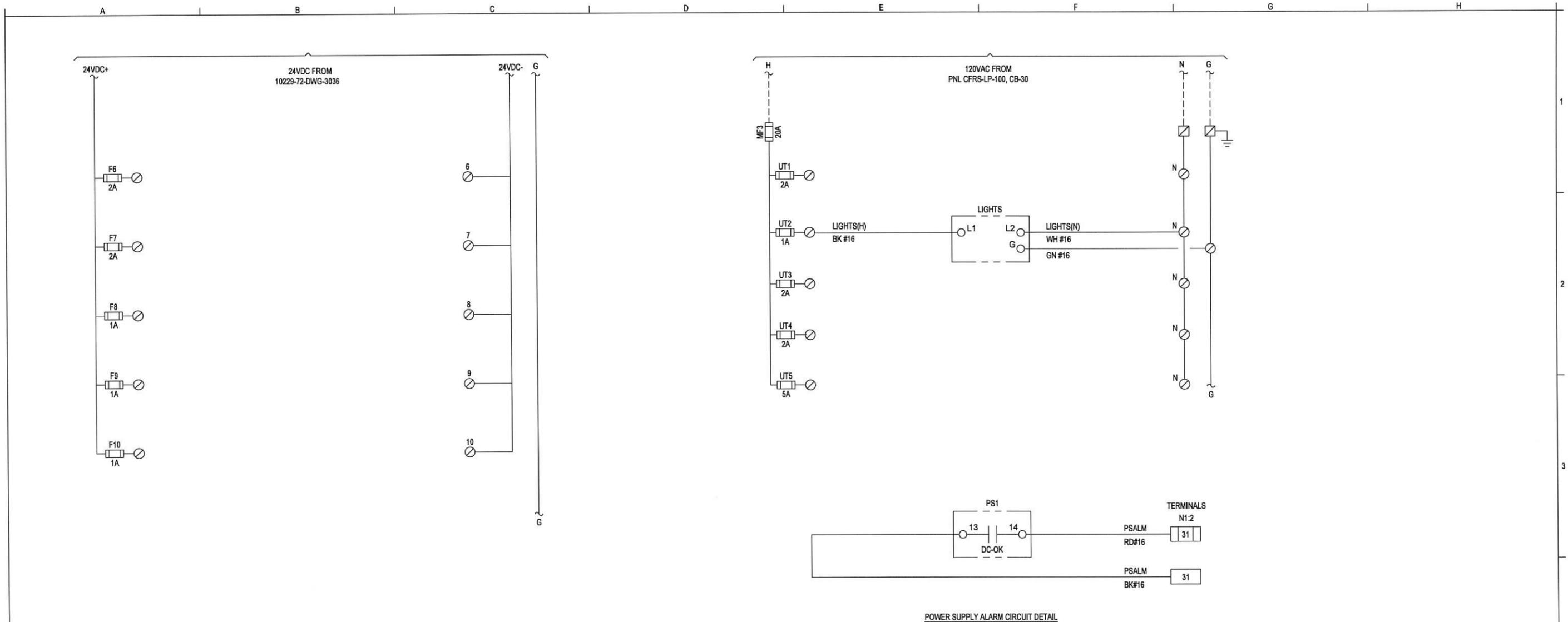


| REVISIONS | | | | |
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| REV | DATE | DESCRIPTION | DRWN | CHKD |
| 0 | 09/29/23 | ISSUED FOR CONSTRUCTION | CMK | DG |
| | | | TH | |
| | | | APP | |



FASKEN OIL AND RANCH
FRAC WATER PIPELINE
72 - INSTRUMENTATION & CONTROLS
CF RISER PLC PANEL
I/O WIRING DIAGRAM (1 OF 2)

| | | |
|------------------|----------------------------------|-----------|
| JOB No: 10229 | DRAWING NO: 10229-72-DWG-3036 | REV: 0 |
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- LEGEND:**
- DEVICE WIRING
 - - - EXTERNAL/FIELD WIRING
 - ⊗ PLC CABINET TERMINAL
 - INSTRUMENT/MODULE TERMINAL
 - ⊠ POWER TERMINAL

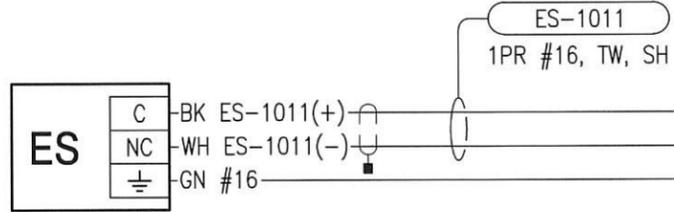


| REVISIONS | | | | | |
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| REV | DATE | DESCRIPTION | DRWN | CHKD | APP |
| 0 | 09/29/23 | ISSUED FOR CONSTRUCTION | CMK | DG | TH |

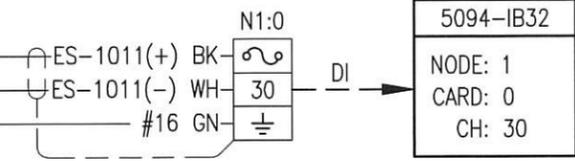


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|---|----------------------------------|-----------|--|
| FASKEN OIL AND RANCH FRAC WATER PIPELINE 72 - INSTRUMENTATION & CONTROLS CF RISER PLC PANEL I/O WIRING DIAGRAM (2 OF 2) | | | |
| JOB No: 10229 | DRAWING NO: 10229-72-DWG-3037 | REV: 0 | |

ES-1011



CFRS-PLC-100



CF RISER E-STOP LOOP

NOTES:

1. CONTRACTOR TO LABEL CABLES AND CONDUCTORS AS INDICATED. CABLES AND CONDUCTORS SHALL BE LABELED ON BOTH ENDS.
2. CONTRACTOR TO CUT AND TAPE SHIELDS AS INDICATED.
3. ALL CONDUCTORS ARE #16 UNLESS OTHERWISE NOTED.
4. ALL INPUTS ARE FUSED 0.1 AMPS ALL OUTPUTS ARE FUSED 0.5 AMPS.



| REVISIONS | | | | | |
|-----------|----------|-------------------------|------|------|-----|
| REV | DATE | DESCRIPTION | DRWN | CHKD | APP |
| 0 | 10/31/23 | ISSUED FOR CONSTRUCTION | DJL | DG | TH |



FASKEN OIL AND RANCH
FRAC WATER PIPELINE
72- INSTRUMENTATION & CONTROLS
CF RISER E-STOP
LOOP DRAWING

| | | |
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| JOB No: 10229 | DRAWING NO: 10229-72-DWG-4103 | REV: 0 |
|------------------|----------------------------------|-----------|

| PLC PANEL | CARD POSITION | I/O CARD | I/O CARD TEMPLATE |
|---------------|---------------|-----------|-------------------|
| RS1-PLC-100 | N1:0 | 5094-IB32 | 10229-72-DWG-3101 |
| | N1:1 | 5094-IB32 | 10229-72-DWG-3101 |
| | N1:2 | 5094-OB32 | 10229-72-DWG-3106 |
| | N1:3 | 5094-IF8 | 10229-72-DWG-3108 |
| RS2-PLC-100 | N1:0 | 5094-IB32 | 10229-72-DWG-3101 |
| | N1:1 | 5094-IB32 | 10229-72-DWG-3101 |
| | N1:2 | 5094-OB32 | 10229-72-DWG-3106 |
| | N1:3 | 5094-IF8 | 10229-72-DWG-3108 |
| RS3-PLC-100 | N1:0 | 5094-IB32 | 10229-72-DWG-3101 |
| | N1:1 | 5094-IB32 | 10229-72-DWG-3101 |
| | N1:2 | 5094-OB32 | 10229-72-DWG-3106 |
| | N1:3 | 5094-IF8 | 10229-72-DWG-3108 |
| RS4-PLC-100 | N1:0 | 5094-IB32 | 10229-72-DWG-3101 |
| | N1:1 | 5094-IB32 | 10229-72-DWG-3101 |
| | N1:2 | 5094-OB32 | 10229-72-DWG-3106 |
| | N1:3 | 5094-IF8 | 10229-72-DWG-3108 |
| CCR-PLC-100 | N1:0 | 5094-IB32 | 10229-72-DWG-3101 |
| | N1:1 | 5094-IB32 | 10229-72-DWG-3101 |
| | N1:2 | 5094-OB32 | 10229-72-DWG-3106 |
| | N1:3 | 5094-IF8 | 10229-72-DWG-3108 |
| PNPBR-PLC-100 | N1:0 | 5094-IB32 | 10229-72-DWG-3101 |
| | N1:1 | 5094-IB32 | 10229-72-DWG-3101 |
| | N1:2 | 5094-OB32 | 10229-72-DWG-3106 |
| | N1:3 | 5094-IF8 | 10229-72-DWG-3108 |
| CFR-PLC-100 | N1:0 | 5094-IB32 | 10229-72-DWG-3101 |
| | N1:1 | 5094-IB32 | 10229-72-DWG-3101 |
| | N1:2 | 5094-OB32 | 10229-72-DWG-3106 |
| | N1:3 | 5094-IF8 | 10229-72-DWG-3108 |

RISER PLC WRING REFERENCE

| PLC PANEL | CARD POSITION | I/O CARD | I/O CARD TEMPLATE |
|-------------|---------------|-------------|-------------------|
| BS1-PLC-100 | N1:0 | 5094-OB16S | 10229-72-DWG-3105 |
| | N1:1 | 5094-IB32 | 10229-72-DWG-3101 |
| | N1:2 | 5094-IB32 | 10229-72-DWG-3101 |
| | N1:3 | 5094-OB32 | 10229-72-DWG-3106 |
| | N2:0 | 5094-IF8 | 10229-72-DWG-3103 |
| | N2:1 | 5094-IF8 | 10229-72-DWG-3104 |
| | N2:2 | 5094-OF8IH | 10229-72-DWG-3107 |
| | N2:3 | 5094-IF4IHS | 10229-72-DWG-3102 |
| | N2:4 | 5094-IB32 | 10229-72-DWG-3101 |
| | N2:5 | 5094-IB32 | 10229-72-DWG-3101 |
| | N2:6 | 5094-OB32 | 10229-72-DWG-3106 |
| | BS2-PLC-100 | N1:0 | 5094-OB16S |
| N1:1 | | 5094-IB32 | 10229-72-DWG-3101 |
| N1:2 | | 5094-IB32 | 10229-72-DWG-3101 |
| N1:3 | | 5094-OB32 | 10229-72-DWG-3106 |
| N2:0 | | 5094-IF8 | 10229-72-DWG-3103 |
| N2:1 | | 5094-IF8 | 10229-72-DWG-3104 |
| N2:2 | | 5094-OF8IH | 10229-72-DWG-3107 |
| N2:3 | | 5094-IF4IHS | 10229-72-DWG-3102 |
| N2:4 | | 5094-IB32 | 10229-72-DWG-3101 |
| N2:5 | | 5094-IB32 | 10229-72-DWG-3101 |
| N2:6 | | 5094-OB32 | 10229-72-DWG-3106 |
| BS3-PLC-100 | | N1:0 | 5094-OB16S |
| | N1:1 | 5094-IB32 | 10229-72-DWG-3101 |
| | N1:2 | 5094-IB32 | 10229-72-DWG-3101 |
| | N1:3 | 5094-OB32 | 10229-72-DWG-3106 |
| | N2:0 | 5094-IF8 | 10229-72-DWG-3103 |
| | N2:1 | 5094-IF8 | 10229-72-DWG-3104 |
| | N2:2 | 5094-OF8IH | 10229-72-DWG-3107 |
| | N2:3 | 5094-IF4IHS | 10229-72-DWG-3102 |
| | N2:4 | 5094-IB32 | 10229-72-DWG-3101 |
| | N2:5 | 5094-IB32 | 10229-72-DWG-3101 |
| | N2:6 | 5094-OB32 | 10229-72-DWG-3106 |

BOOSTER PLC WRING REFERENCE

| PLC PANEL | CARD POSITION | I/O CARD | I/O CARD TEMPLATE |
|--------------|---------------|-------------------|-------------------|
| BNPT-PLC-100 | N1:0 | 5094-IB32 | 10229-72-DWG-3101 |
| | N1:1 | 5094-IB32 | 10229-72-DWG-3101 |
| | N1:2 | 5094-OB32 | 10229-72-DWG-3106 |
| | N1:3 | 5094-OB16S | 10229-72-DWG-3105 |
| | N1:4 | 5094-IB32 | 10229-72-DWG-3101 |
| | N1:5 | 5094-IB32 | 10229-72-DWG-3101 |
| | N1:6 | 5094-OB32 | 10229-72-DWG-3106 |
| | N2:0 | 5094-IF8 | 10229-72-DWG-3103 |
| | N2:1 | 5094-IF8 | 10229-72-DWG-3103 |
| | N2:2 | 5094-IF8 | 10229-72-DWG-3103 |
| | N2:3 | 5094-IF8 | 10229-72-DWG-3104 |
| | N2:4 | 5094-IF8 | 10229-72-DWG-3104 |
| BPPT-PLC-100 | N1:0 | 5094-IB32 | 10229-72-DWG-3101 |
| | N1:1 | 5094-IB32 | 10229-72-DWG-3101 |
| | N1:2 | 5094-OB32 | 10229-72-DWG-3106 |
| | N1:3 | 5094-OB16S | 10229-72-DWG-3105 |
| | N1:4 | 5094-IB32 | 10229-72-DWG-3101 |
| | N1:5 | 5094-IB32 | 10229-72-DWG-3101 |
| | N1:6 | 5094-OB32 | 10229-72-DWG-3106 |
| | N2:0 | 5094-IF8 | 10229-72-DWG-3103 |
| | N2:1 | 5094-IF8 | 10229-72-DWG-3103 |
| | N2:2 | 5094-IF8 | 10229-72-DWG-3103 |
| | N2:3 | 5094-IF8 | 10229-72-DWG-3104 |
| | N2:4 | 5094-IF8 | 10229-72-DWG-3104 |
| CFPT-PLC-100 | N1:0 | 5094-IB32 | 10229-72-DWG-3101 |
| | N1:1 | 5094-IB32 | 10229-72-DWG-3101 |
| | N1:2 | 5094-OB32 | 10229-72-DWG-3106 |
| | N1:3 | 5094-OB16S | 10229-72-DWG-3105 |
| | N1:4 | 5094-IB32 | 10229-72-DWG-3101 |
| | N1:5 | 5094-IB32 | 10229-72-DWG-3101 |
| | N1:6 | 5094-OB32 | 10229-72-DWG-3106 |
| | N2:0 | 5094-IF8 | 10229-72-DWG-3103 |
| | N2:1 | 5094-IF8 | 10229-72-DWG-3103 |
| | N2:2 | 5094-IF8 | 10229-72-DWG-3103 |
| | N2:3 | 5094-IF8 | 10229-72-DWG-3104 |
| | N2:4 | 5094-IF8 | 10229-72-DWG-3104 |
| N2:5 | 5094-OF8IH | 10229-72-DWG-3107 | |
| N2:6 | 5094-IF4IHS | 10229-72-DWG-3102 | |

PIT STATION PLC WRING REFERENCE

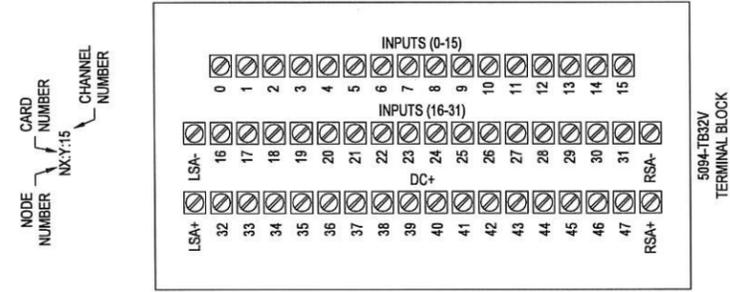
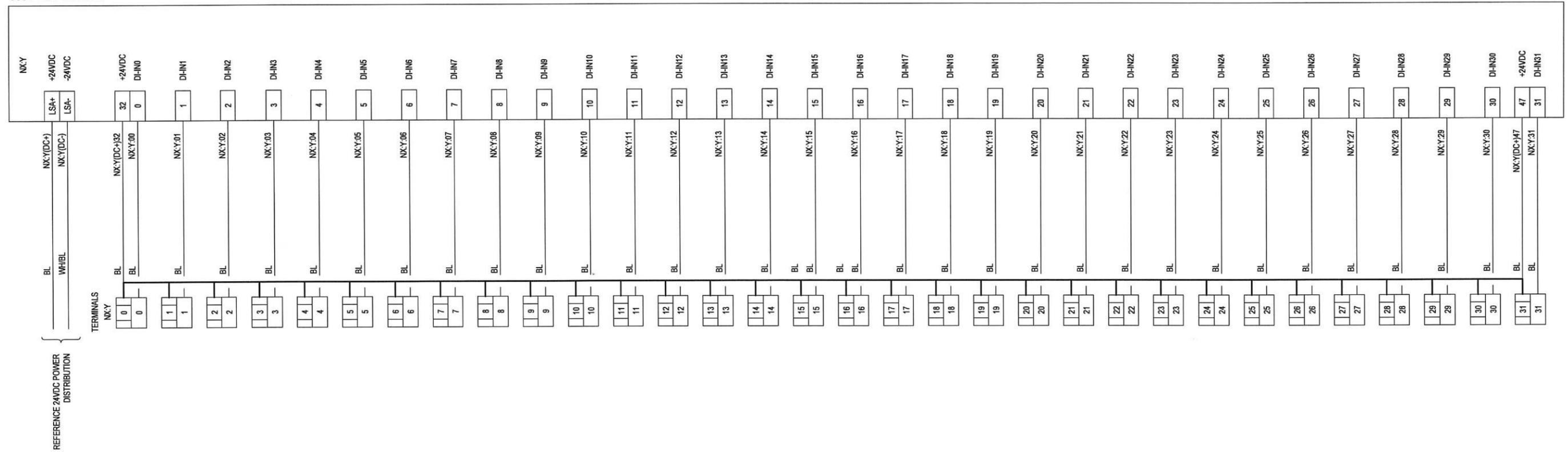
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| REV | DATE | DESCRIPTION | DRWN | CHKD | APP |
| 0 | 09/29/23 | ISSUED FOR CONSTRUCTION | CMK | DG | TH |



FASKEN OIL AND RANCH
FRAC WATER PIPELINE
72 - INSTRUMENTATION & CONTROLS
I/O MODULE WRING
TEMPLATE REFERENCES

JOB No: 10229
DRAWING NO: 10229-72-DWG-3100
REV: 0

24VDC INPUTS
5094-IB32 W/TB32V



NOTES:

1. ALL WIRES SHALL BE LABELED ON BOTH ENDS WITH HEAT SHRINK LABELS.
2. ALL FUSES ARE 100mA.
3. COMMON TERMINALS ARE JUMPED USING PHOENIX CONTACT NO. 3032208 INSERTION BRIDGE.
4. ALL WIRING TO BE #16 GAUGE UNLESS NOTED OTHERWISE.

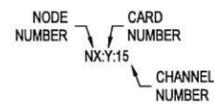
5094-IB32 I/O CARD WIRING

| REVISIONS | | | | |
|-----------|----------|-------------------------|------|-------|
| REV | DATE | DESCRIPTION | DRWN | CHKD |
| 0 | 09/29/23 | ISSUED FOR CONSTRUCTION | CMK | DG TH |
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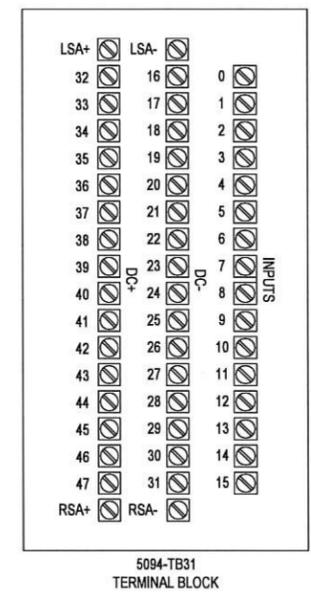
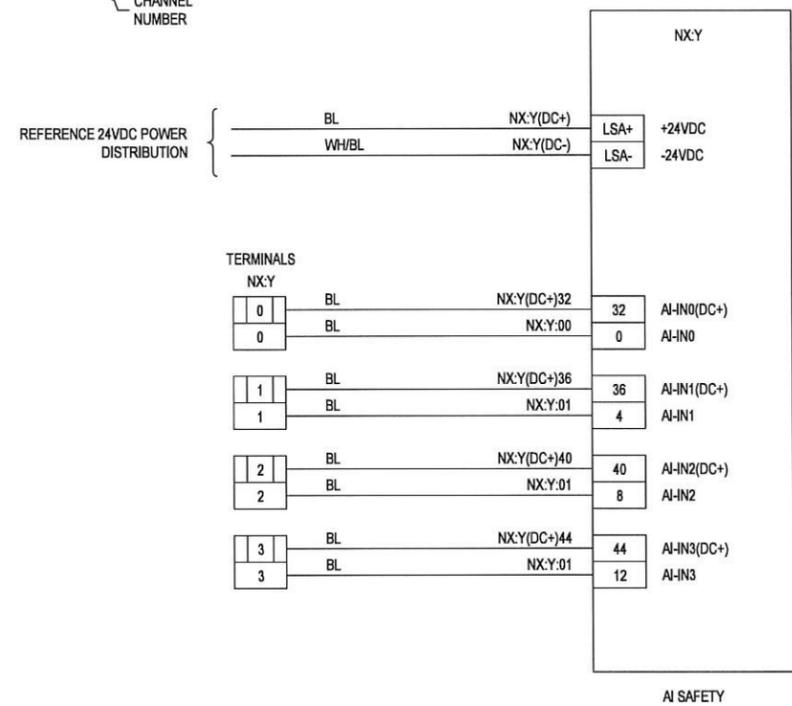


FASKEN OIL AND RANCH
FRAC WATER PIPELINE
72 - INSTRUMENTATION & CONTROLS
I/O MODULE WIRING
5094-IB32

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| JOB No: 10229 | DRAWING NO: 10229-72-DWG-3101 | REV: 0 |
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**ANALOG INPUTS
5094-IF4IHS W/TB3I**



NOTES:

1. ALL WIRES SHALL BE LABELED ON BOTH ENDS WITH HEAT SHRINK LABELS.
2. ALL FUSES ARE 100mA.
3. COMMON TERMINALS ARE JUMPERED USING PHOENIX CONTACT NO. 3032208 INSERTION BRIDGE.
4. ALL WIRING TO BE #16 GAUGE UNLESS NOTED OTHERWISE.

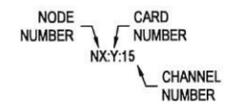
5094-IF4IHS I/O CARD WIRING



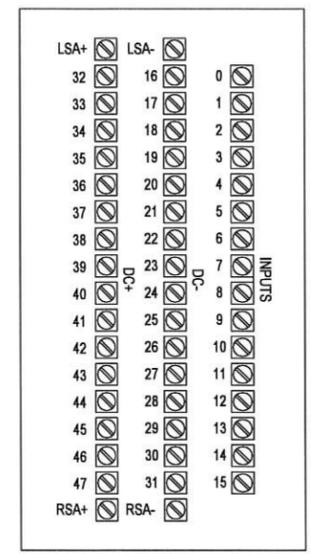
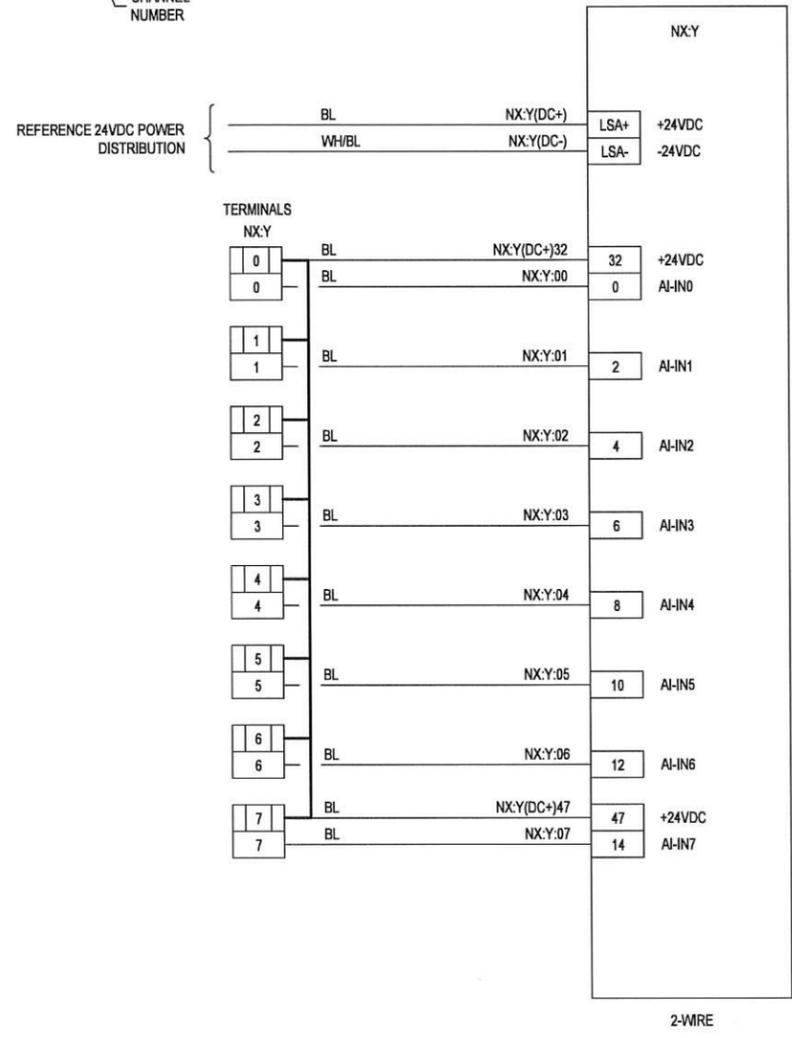
FASKEN OIL AND RANCH
FRAC WATER PIPELINE
72 - INSTRUMENTATION & CONTROLS
I/O MODULE WIRING
5094-IF4IHS

| REVISIONS | | | | |
|-----------|----------|-------------------------|------|------|
| REV | DATE | DESCRIPTION | DRWN | CHKD |
| 0 | 09/29/23 | ISSUED FOR CONSTRUCTION | CMK | DG |
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| JOB No: 10229 | DRAWING NO: 10229-72-DWG-3102 | REV: 0 |
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ANALOG INPUTS
5094-IF8 WTB3



NOTES:

1. ALL WIRES SHALL BE LABELED ON BOTH ENDS WITH HEAT SHRINK LABELS.
2. ALL FUSES ARE 100mA.
3. COMMON TERMINALS ARE JUMPERED USING PHOENIX CONTACT NO. 3032208 INSERTION BRIDGE.
4. ALL WIRING TO BE #16 GAUGE UNLESS NOTED OTHERWISE.

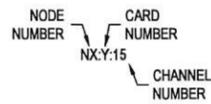
5094-IF8-2W I/O CARD WIRING

| REVISIONS | | | | |
|-----------|----------|-------------------------|------|-------|
| REV | DATE | DESCRIPTION | DRWN | CHKD |
| 0 | 09/29/23 | ISSUED FOR CONSTRUCTION | CMK | DG TH |
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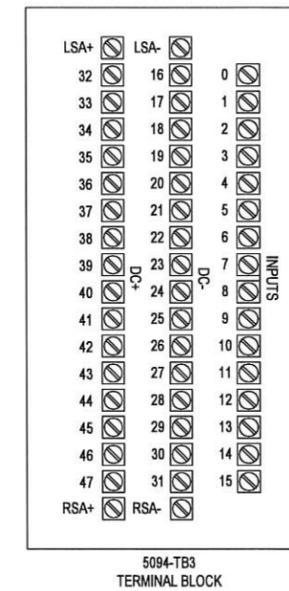
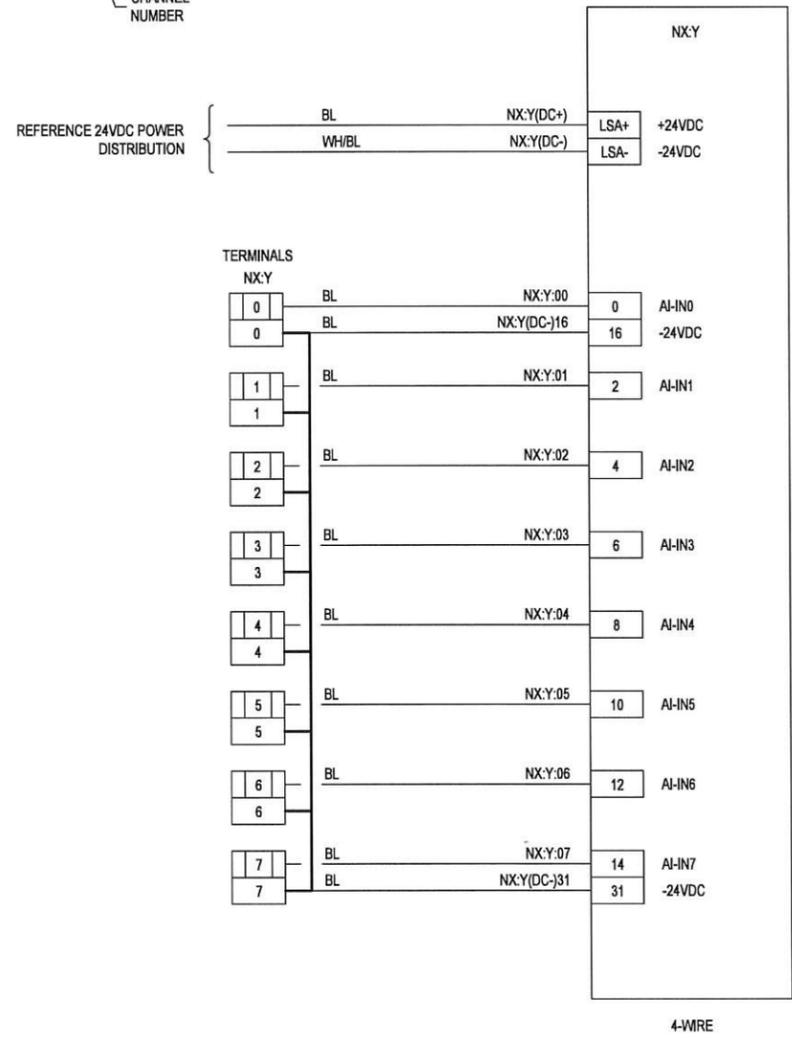


FASKEN OIL AND RANCH
FRAC WATER PIPELINE
72 - INSTRUMENTATION & CONTROLS
I/O MODULE WIRING
5094-IF8-2W

| | | |
|------------------|----------------------------------|-----------|
| JOB No: 10229 | DRAWING NO: 10229-72-DWG-3103 | REV: 0 |
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**ANALOG INPUTS
5094-IF8 WTB3**



NOTES:

- ALL WIRES SHALL BE LABELED ON BOTH ENDS WITH HEAT SHRINK LABELS.
- ALL FUSES ARE 100mA.
- COMMON TERMINALS ARE JUMPERED USING PHOENIX CONTACT NO. 3032208 INSERTION BRIDGE.
- ALL WIRING TO BE #16 GAUGE UNLESS NOTED OTHERWISE.

5094-IF8-4W I/O CARD WIRING

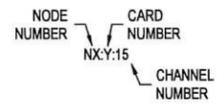


| REVISIONS | | | | | |
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| 0 | 09/29/23 | ISSUED FOR CONSTRUCTION | CMK | DG | TH |

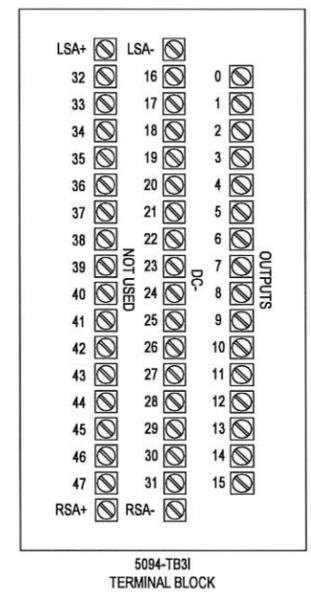
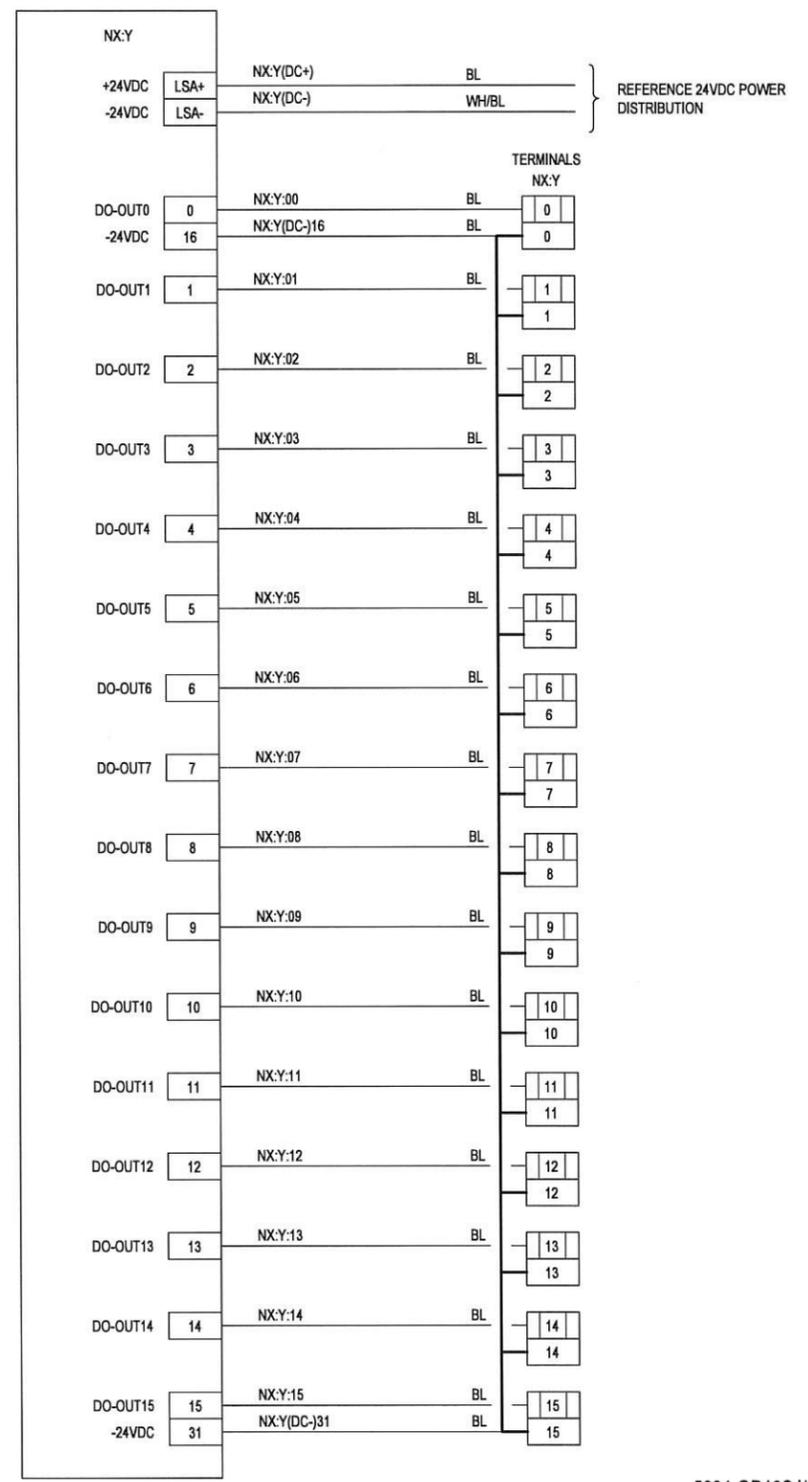


FASKEN OIL AND RANCH
FRAC WATER PIPELINE
72 - INSTRUMENTATION & CONTROLS
I/O MODULE WIRING
5094-IF8-4W

| | | |
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| JOB No: 10229 | DRAWING NO: 10229-72-DWG-3104 | REV: 0 |
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24VDC OUTPUTS
5094-OB16S W/TB31



NOTES:

- ALL WIRES SHALL BE LABELED ON BOTH ENDS WITH HEAT SHRINK LABELS.
- ALL FUSES ARE 500mA.
- COMMON TERMINALS ARE JUMPED USING PHOENIX CONTACT NO. 3032208 INSERTION BRIDGE.
- ALL WIRING TO BE #16 GAUGE UNLESS NOTED OTHERWISE.

5094-OB16S I/O CARD WIRING

| REVISIONS | | | | |
|-----------|----------|-------------------------|------|-------|
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| 0 | 09/29/23 | ISSUED FOR CONSTRUCTION | CMK | DG TH |

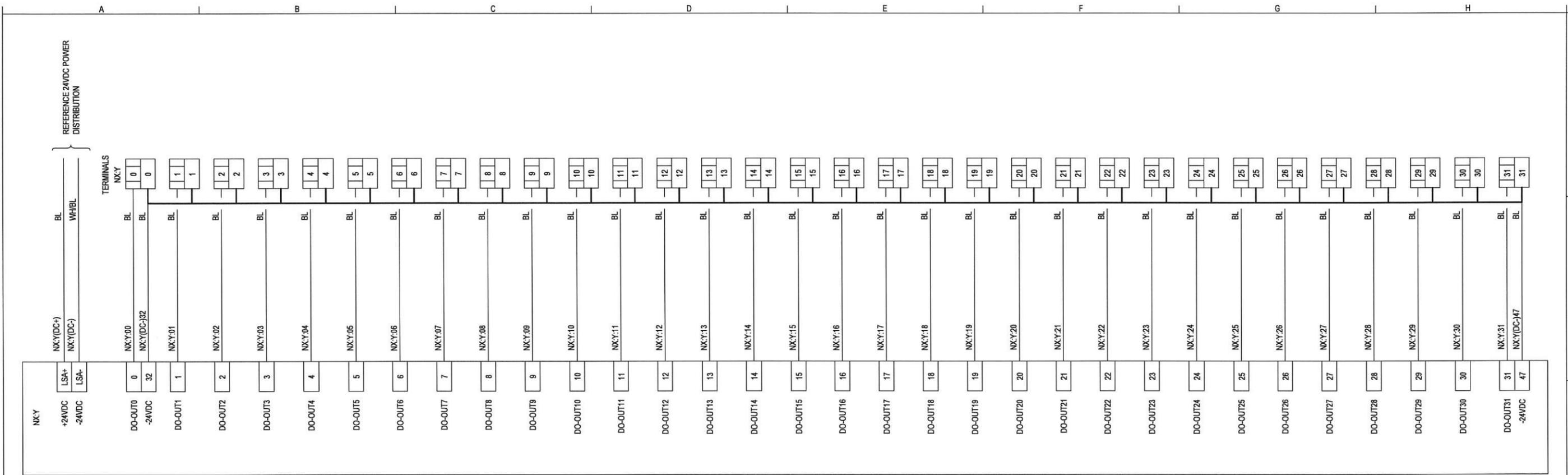
ONWARD RESOURCES, LLC.
TEXAS REGISTERED ENGINEERING FIRM, F-24097

415 Commerce Drive
Amherst, NY 14228
716-691-9200 ATSI.COM

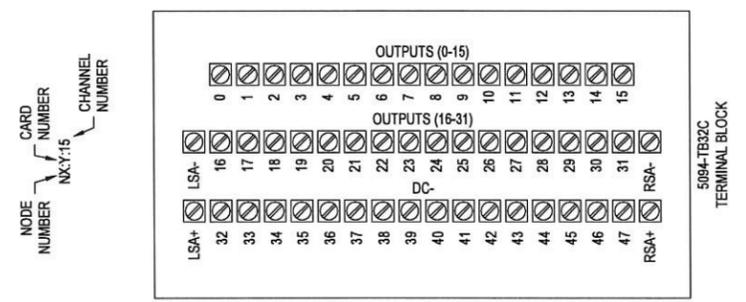


FASKEN OIL AND RANCH
FRAC WATER PIPELINE
72 - INSTRUMENTATION & CONTROLS
I/O MODULE WIRING
5094-OB16S

| | | |
|------------------|----------------------------------|-----------|
| JOB No: 10229 | DRAWING NO: 10229-72-DWG-3105 | REV: 0 |
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24VDC OUTPUTS
5094-OB32 W/TB32C



- NOTES:**
1. ALL WIRES SHALL BE LABELED ON BOTH ENDS WITH HEAT SHRINK LABELS.
 2. ALL FUSES ARE 500mA.
 3. COMMON TERMINALS ARE JUMPERED USING PHOENIX CONTACT NO. 3032208 INSERTION BRIDGE.
 4. ALL WIRING TO BE #16 GAUGE UNLESS NOTED OTHERWISE.

5094-OB32 I/O CARD WIRING

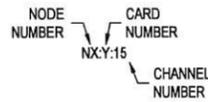
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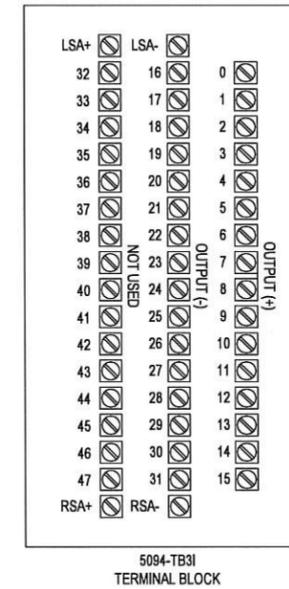
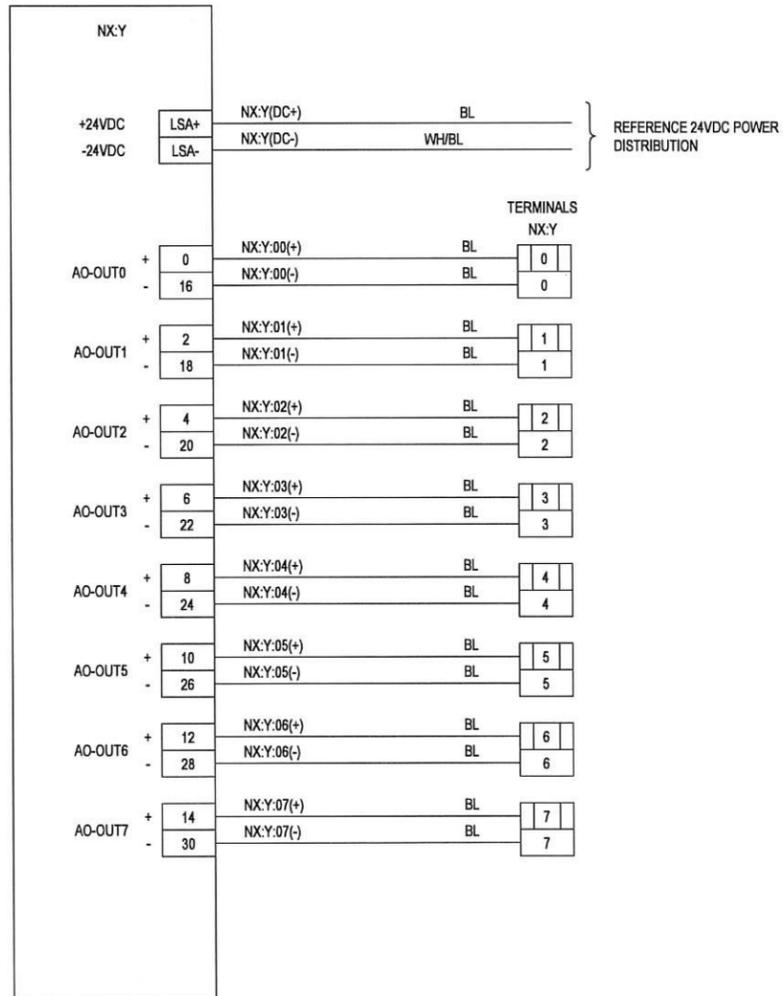
FASKEN OIL AND RANCH

FASKEN OIL AND RANCH
FRAC WATER PIPELINE
72 - INSTRUMENTATION & CONTROLS
I/O MODULE WIRING
5094-OB32

JOB No: 10229
DRAWING NO: 10229-72-DWG-3106
REV: 0



**ANALOG OUTPUTS
5094-OF8IH W/TB3I**



NOTES:

1. ALL WIRES SHALL BE LABELED ON BOTH ENDS WITH HEAT SHRINK LABELS.
2. ALL FUSES ARE 100mA.
3. COMMON TERMINALS ARE JUMPERED USING PHOENIX CONTACT NO. 3032208 INSERTION BRIDGE.
4. ALL WIRING TO BE #16 GAUGE UNLESS NOTED OTHERWISE.

5094-OF8IH I/O CARD WIRING

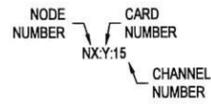


| REVISIONS | | | | | |
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| 0 | 09/29/23 | ISSUED FOR CONSTRUCTION | CMK | DG | TH |

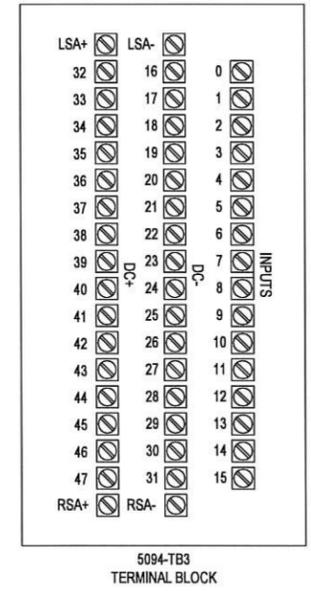
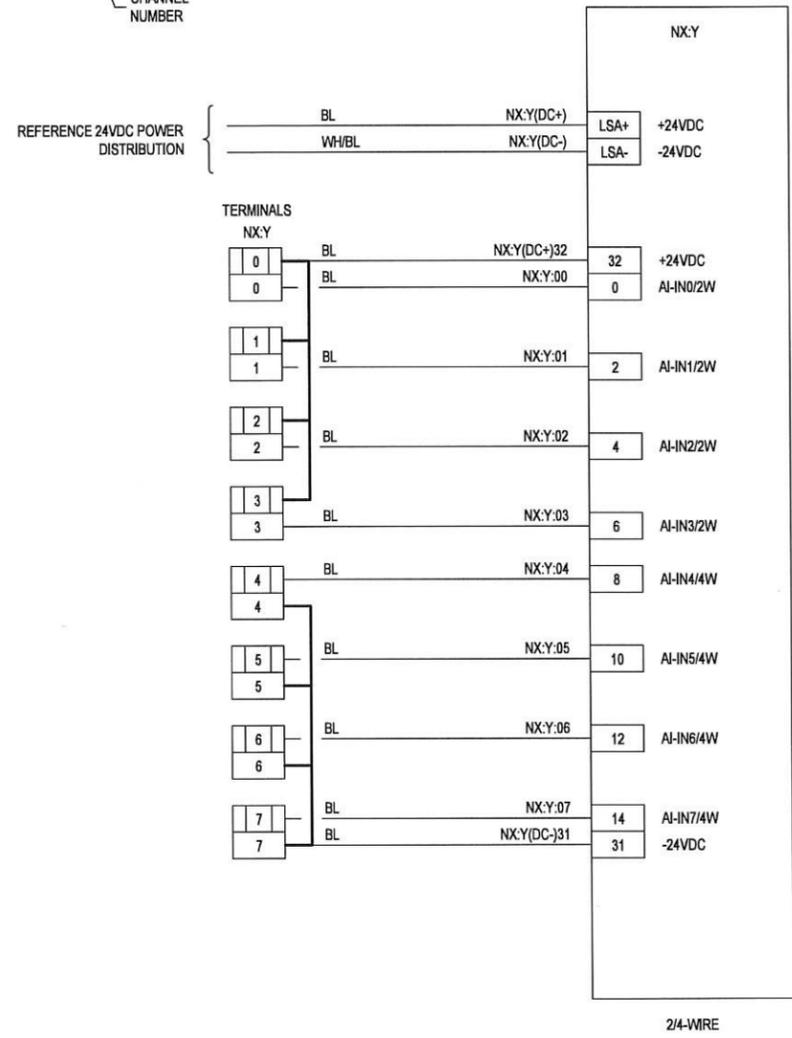


FASKEN OIL AND RANCH
FRAC WATER PIPELINE
72 - INSTRUMENTATION & CONTROLS
I/O MODULE WIRING
5094-OF8IH

JOB No: 10229
DRAWING NO: 10229-72-DWG-3107
REV: 0



**ANALOG INPUTS
5094-IF8 W/TB3**



NOTES:

1. ALL WIRES SHALL BE LABELED ON BOTH ENDS WITH HEAT SHRINK LABELS.
2. ALL FUSES ARE 100mA.
3. COMMON TERMINALS ARE JUMPERED USING PHOENIX CONTACT NO. 3032208 INSERTION BRIDGE.
4. ALL WIRING TO BE #16 GAUGE UNLESS NOTED OTHERWISE.

5094-IF8-2W/4W I/O CARD WIRING



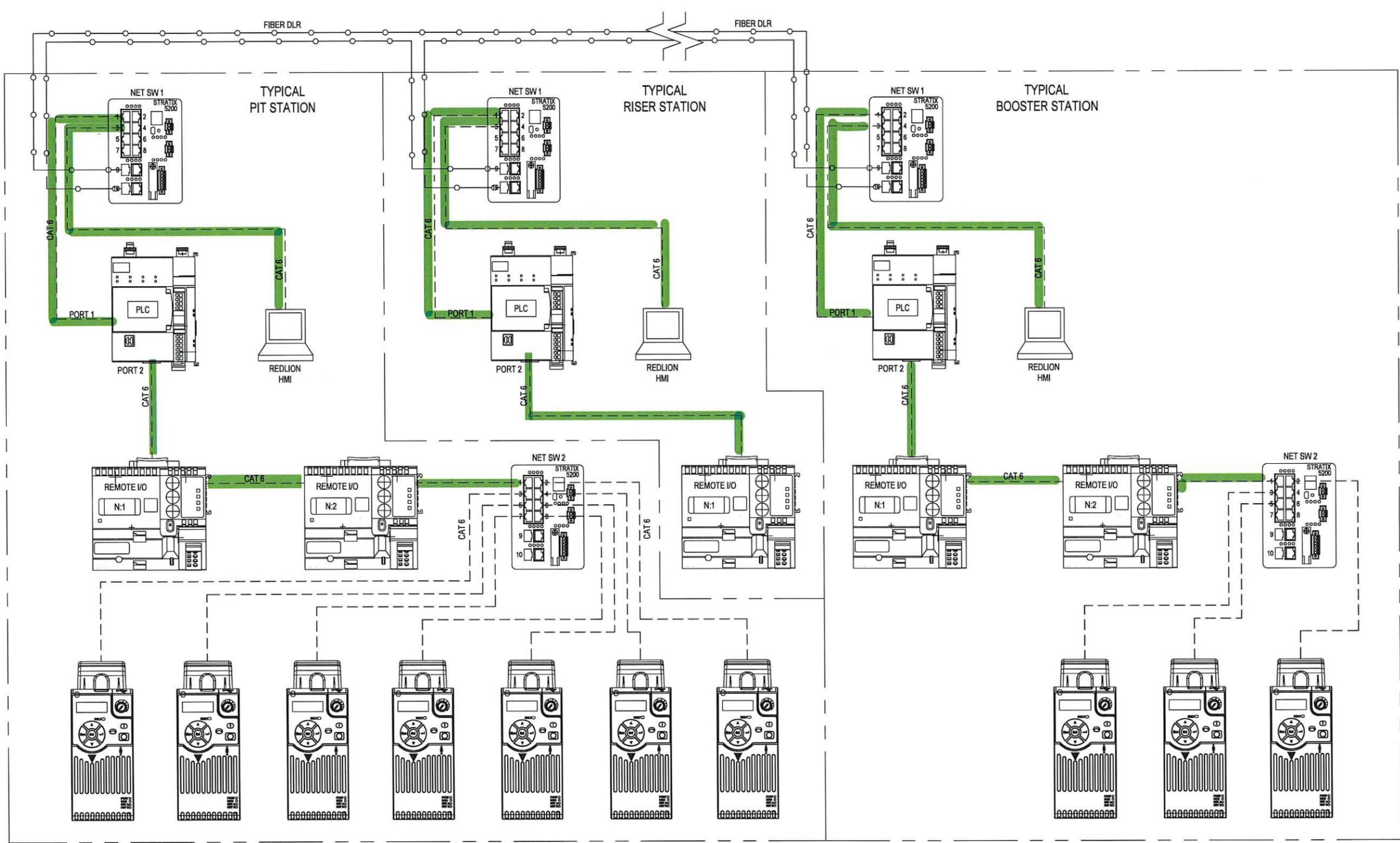
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|-----------|----------|-------------------------|------|-------|
| REV | DATE | DESCRIPTION | DRWN | CHKD |
| 0 | 09/29/23 | ISSUED FOR CONSTRUCTION | CMK | DG TH |



FASKEN OIL AND RANCH
FRAC WATER PIPELINE
72 - INSTRUMENTATION & CONTROLS
I/O MODULE WIRING
5094-IF8-2W/4W

JOB No: 10229
DRAWING NO: 10229-72-DWG-3108
REV: 0

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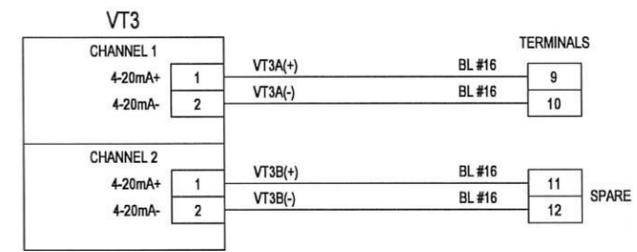
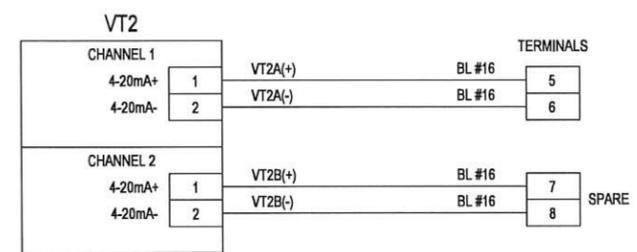
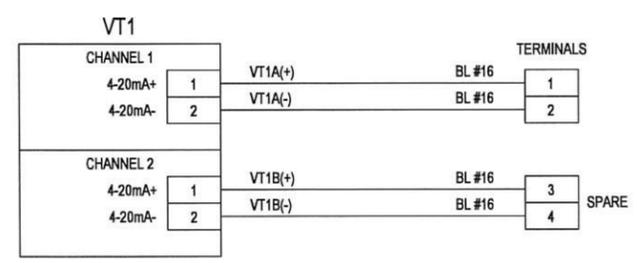
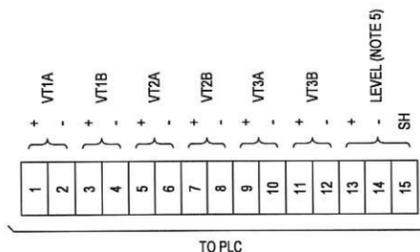
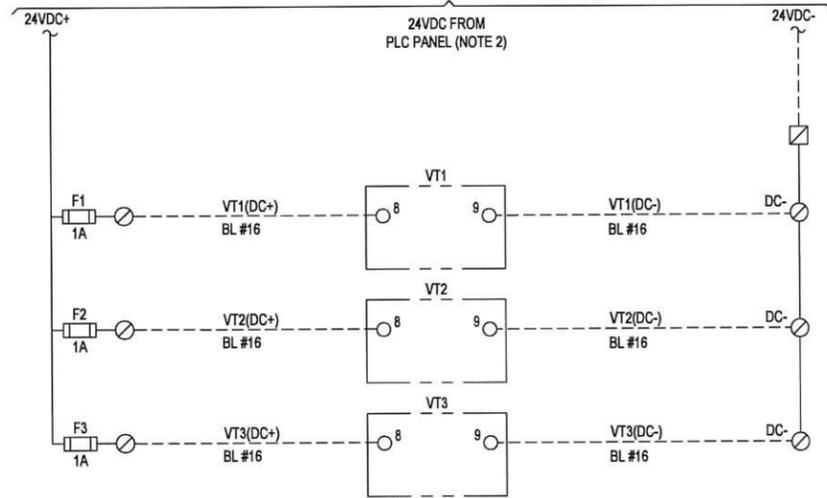


FASKEN OIL AND RANCH
FRAC WATER PIPELINE
74 - INSTRUMENTATION & CONTROLS
NETWORK ARCHITECTURE DRAWING

| REVISIONS | | | | |
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| REV | DATE | DESCRIPTION | DRWN | CHKD |
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NOTE 4

NOTES:

- REFER TO DRAWING 10229-71-DWG-2039 FOR INDIVIDUAL VIBRATION PANEL TRANSMITTER REQUIREMENTS AND TAG NAMES.
- REFER TO INDIVIDUAL PLC CABINET POWER DISTRIBUTION DRAWINGS FOR MAIN POWER FEED TO ASSOCIATED VIBRATION PANELS.
- CONDUCTORS SHALL BE LABELED WITH HEAT SHRINK LABELS AFFIXED TO BOTH ENDS OF THE CONDUCTOR.
- TRANSMITTER MAY NOT BE INSTALLED FOR ALL PANELS. SEE NOTE 1.
- TERMINALS USED FOR LEVEL TRANSMITTER MARSHALLING WHEN REQUIRED. SEE NOTE 1.

LEGEND:

- DEVICE WIRING
- EXTERNAL/FIELD WIRING
- ⊗ PLC CABINET TERMINAL
- INSTRUMENT/MODULE TERMINAL
- ⊠ POWER TERMINAL

VIBRATION PANEL POWER DISTRIBUTION AND INTERNAL WIRING



| REVISIONS | | | | |
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| REV | DATE | DESCRIPTION | DRWN | CHKD |
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ONWARD RESOURCES, LLC.
TEXAS REGISTERED ENGINEERING FIRM, F-24097

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716-691-9200 ATSI.COM

FASKEN OIL AND RANCH
FRAC WATER PIPELINE
72 - INSTRUMENTATION & CONTROLS
VIBRATION PANEL
INTERNAL WIRING

JOB No: 10229
DRAWING NO: 10229-72-DWG-3039
REV: 0