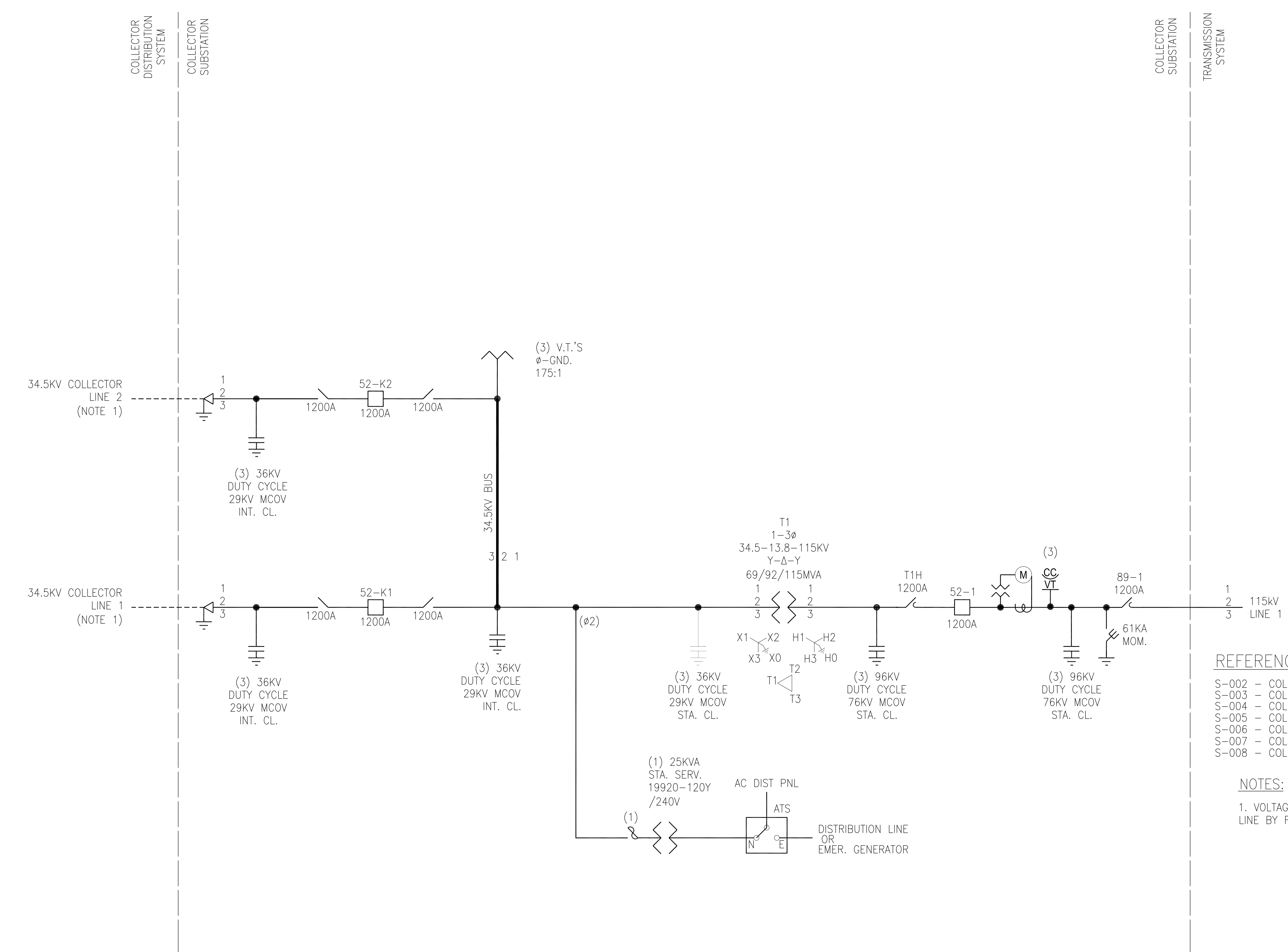


| LEGEND OF SYMBOLS: | |
|--------------------|--|
| | POWER TRANSFORMER (3Ø) |
| | STATION SERVICE TRANSFORMER |
| | SURGE ARRESTER |
| | FUSED DISCONNECT (HOOKSTICK) |
| | 3Ø GROUND SWITCH |
| | VOLTAGE TRANSFORMER (WOUND) |
| | FAULT INT. DEVICE (CKT. BKR.) |
| | SUBSTATION FENCE LINE DEMARCATION |
| | 3Ø GROUP OPER. AIRBREAK W/ ARCING HORNS |
| | DISCONNECT SWITCH, GROUP OPERATED |
| | H.V. TERM. TO SOLID DI-ELECTRIC U.G. CABLE |
| | COUPLING CAPACITOR VOLTAGE TRANSFORMER |
| | REVENUE METERING |



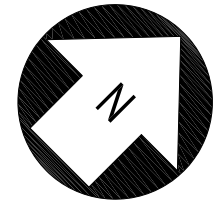
- REFERENCE DRAWINGS:**
- S-002 - COLLECTOR SUBSTATION GENERAL ARRANGEMENT PLAN
 - S-003 - COLLECTOR SUBSTATION ELEVATIONS & SECTIONS A-A, B-B
 - S-004 - COLLECTOR SUBSTATION SECTIONS C-C, D-D
 - S-005 - COLLECTOR SUBSTATION YARD LIGHTING PLAN
 - S-006 - COLLECTOR SUBSTATION FENCE & GROUNDING PLAN
 - S-007 - COLLECTOR SUBSTATION FENCE & GROUNDING DETAILS
 - S-008 - COLLECTOR SUBSTATION CONTROL HOUSE ELECTRICAL LAYOUT PLAN

NOTES:

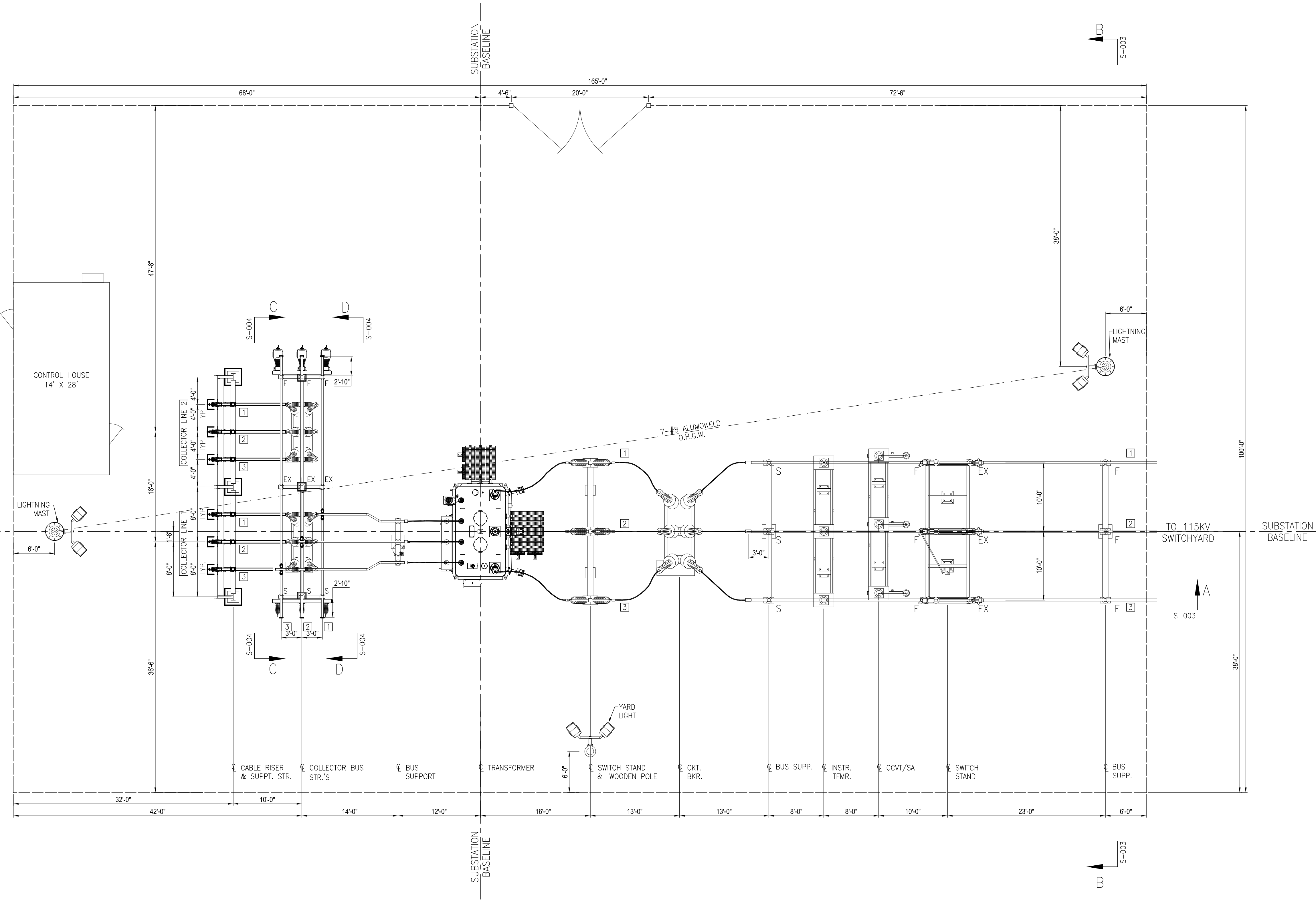
- VOLTAGE WILL BE REGULATED AT EACH COLLECTOR LINE BY FEEDER NETWORK INVERTERS.

PRELIMINARY
NOT FOR CONSTRUCTION

| | | | | | | | | | |
|--|--------------------------|--------------------|-------------|------|-----|---|--|-------|-----------------------------------|
| TRC 249 Western Avenue Augusta, ME 04330 | | PROJECT NO: 327851 | | | | AAD/TRC DESIGNED AAD/TRC DRAWN DG/TRC CHECKED AKD/TRC APPROVED | PRELIMINARY COLLECTOR SUBSTATION POWER ONE-LINE DIAGRAM HIGH RIVER ENERGY CENTER HIGH RIVER ENERGY CENTER, LLC FLORIDA MONTGOMERY CO., NY | | |
| | | REV | DESCRIPTION | DATE | DES | | CHK | APP | REVIEW 1 DATE NONE SCALE |
| A | ISSUED FOR CLIENT REVIEW | 06/20/19 | AAD | DG | AKD | | | S-001 | |



ADJUST DIRECTION OF NORTH ARROW AS NEEDED



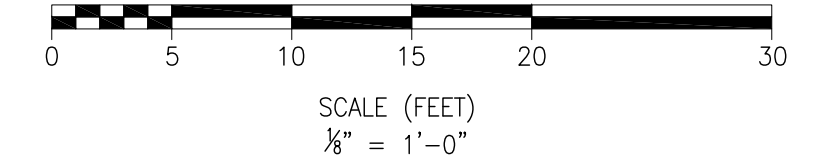
PLAN VIEW

NOTES:

- BUS SUPPORTS PROVIDED AND INSTALLED AS SHOWN FOR THE FOLLOWING TYPES:
 F-FIXED BUS SUPPORT
 S-SLIP BUS SUPPORT
 EX-EXPANSION BUS SUPPORT
- CLEARANCES FOR ALL BUS & CONDUCTOR TO BE PER VALUES PUBLISHED IN ANSI C37.32 TABLE 5:
 115KV-PHASE TO PHASE 7'-0" (CENTERLINE-CENTERLINE)
 -PHASE TO GROUND 3'-11" (METAL TO METAL)
 34.5KV-PHASE TO PHASE 3'-0" (CENTERLINE-CENTERLINE)
 -PHASE TO GROUND 1'-3" (METAL TO METAL)
- WIRE CONDUCTOR MINIMUM BEND RADIUS TO BE INSTALLED NO LESS THAN:
 127KCM-20 INCHES
 336KCM-10 INCHES
 4/0 COPPER-8 INCHES
 2/0 COPPER-6 INCHES
 1/0 AAAC-5.5 INCHES
 #2 COPPER-4 INCHES

REFERENCE DRAWINGS:

- S-001 - COLLECTOR SUBSTATION POWER ONE LINE DIAGRAM
- S-003 - COLLECTOR SUBSTATION ELEVATIONS & SECTIONS A-A, B-B
- S-004 - COLLECTOR SUBSTATION SECTIONS C-C, D-D
- S-005 - COLLECTOR SUBSTATION YARD LIGHTING PLAN
- S-006 - COLLECTOR SUBSTATION FENCE & GROUNDING PLAN
- S-007 - COLLECTOR SUBSTATION FENCE & GROUNDING DETAILS
- S-008 - COLLECTOR SUBSTATION CONTROL HOUSE ELECTRICAL LAYOUT PLAN



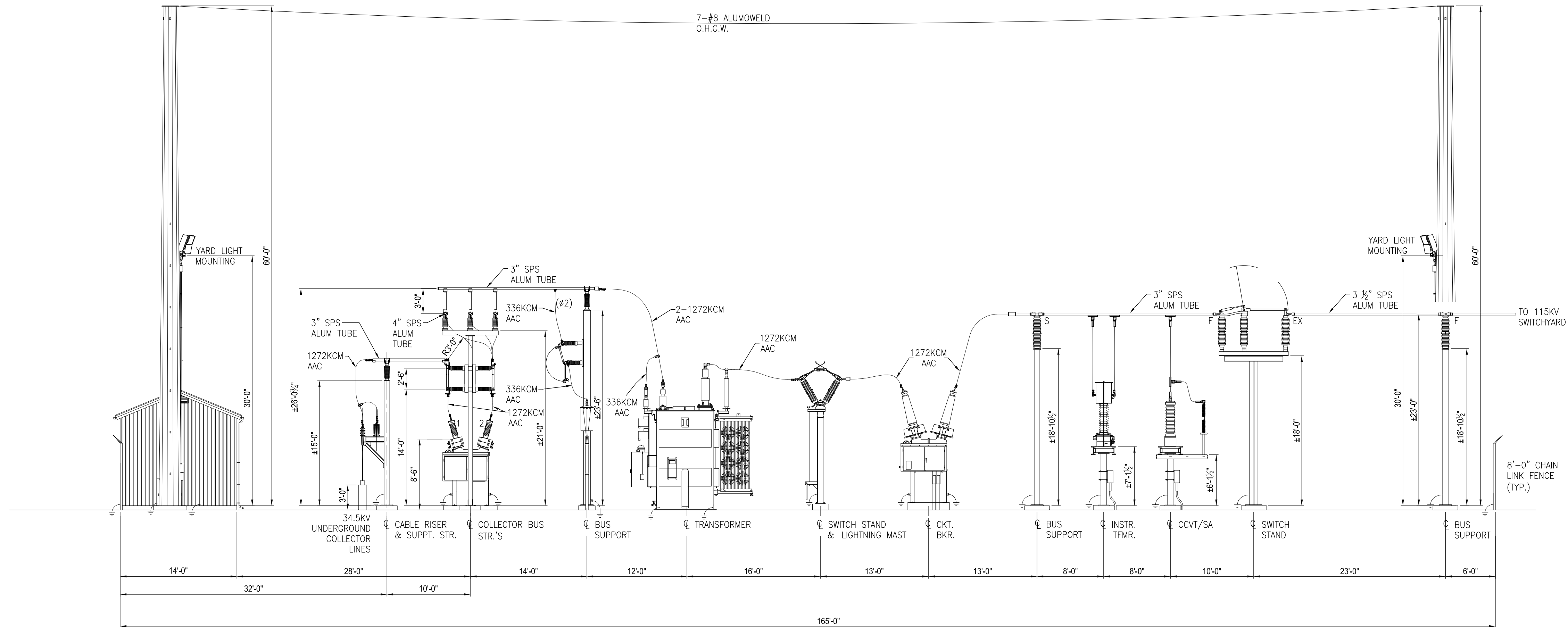
PRELIMINARY
NOT FOR CONSTRUCTION

| REFERENCES | | REV | DESCRIPTION | DATE | DES | CHK | APP |
|------------|--|-----|--------------------------|----------|-----|-----|-----|
| | | A | ISSUED FOR CLIENT REVIEW | 06/20/19 | AAD | DG | AKD |

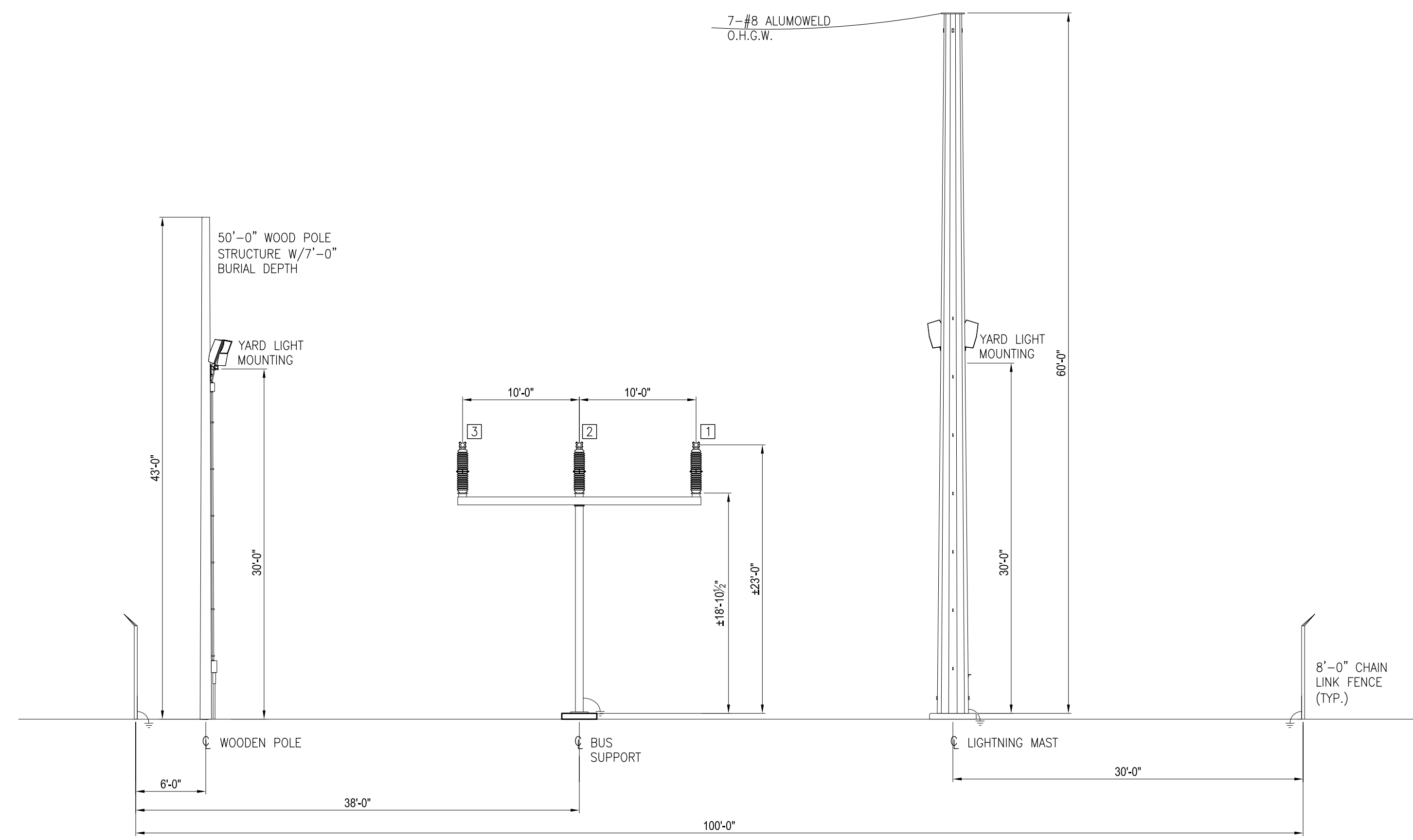


PROJECT NO: 327851

| | | | | |
|---------------------|---|--------------------|-------|-----------|
| AAD/TRC DESIGNED | PRELIMINARY | | | |
| AAD/TRC DRAWN | COLLECTOR SUBSTATION GENERAL ARRANGEMENT PLAN | | | |
| DG/TRC CHECKED | HIGH RIVER ENERGY CENTER | | | |
| AKD/TRC APPROVED | HIGH RIVER ENERGY CENTER, LLC | | | |
| | FLORIDA | MONTGOMERY CO., NY | | |
| REVIEW 1 | 06/20/19 DATE | | S-002 | REV. A |
| REVIEW 2 | 1/8"=1'-0" SCALE | | | |



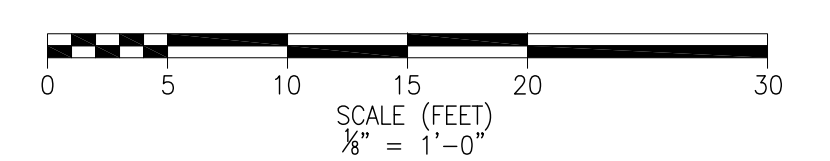
ELEVATION A-A



SECTION B-B

- NOTES:**
- BUS SUPPORTS PROVIDED AND INSTALLED AS SHOWN FOR THE FOLLOWING TYPES:
 F-FIXED BUS SUPPORT
 S-SLIP BUS SUPPORT
 EX-EXPANSION BUS SUPPORT
 - CLEARANCES FOR ALL BUS & CONDUCTOR TO BE PER VALUES PUBLISHED IN ANSI C37.32 TABLE 5:
 115KV-PHASE TO PHASE 7'-0" (CENTERLINE-CENTERLINE)
 -PHASE TO GROUND 3'-11" (METAL TO METAL)
 34.5KV-PHASE TO PHASE 3'-0" (CENTERLINE-CENTERLINE)
 -PHASE TO GROUND 1'-3" (METAL TO METAL)
 - WIRE CONDUCTOR MINIMUM BEND RADIUS TO BE INSTALLED NO LESS THAN:
 1272KCM-20 INCHES
 336KCM-10 INCHES
 4/0 COPPER-8 INCHES
 2/0 COPPER-6 INCHES
 1/0 AAC-5.5 INCHES
 #2 COPPER-4 INCHES

- REFERENCE DRAWINGS:**
- S-001 - COLLECTOR SUBSTATION POWER ONE LINE DIAGRAM
 - S-002 - COLLECTOR SUBSTATION GENERAL ARRANGEMENT PLAN
 - S-004 - COLLECTOR SUBSTATION SECTIONS C-C, D-D
 - S-005 - COLLECTOR SUBSTATION YARD LIGHTING PLAN
 - S-006 - COLLECTOR SUBSTATION FENCE & GROUNDING PLAN
 - S-007 - COLLECTOR SUBSTATION FENCE & GROUNDING DETAILS
 - S-008 - COLLECTOR SUBSTATION CONTROL HOUSE ELECTRICAL LAYOUT PLAN



PRELIMINARY
NOT FOR CONSTRUCTION

TRC 249 Western Avenue
Augusta, ME 04330

PROJECT NO: 327851

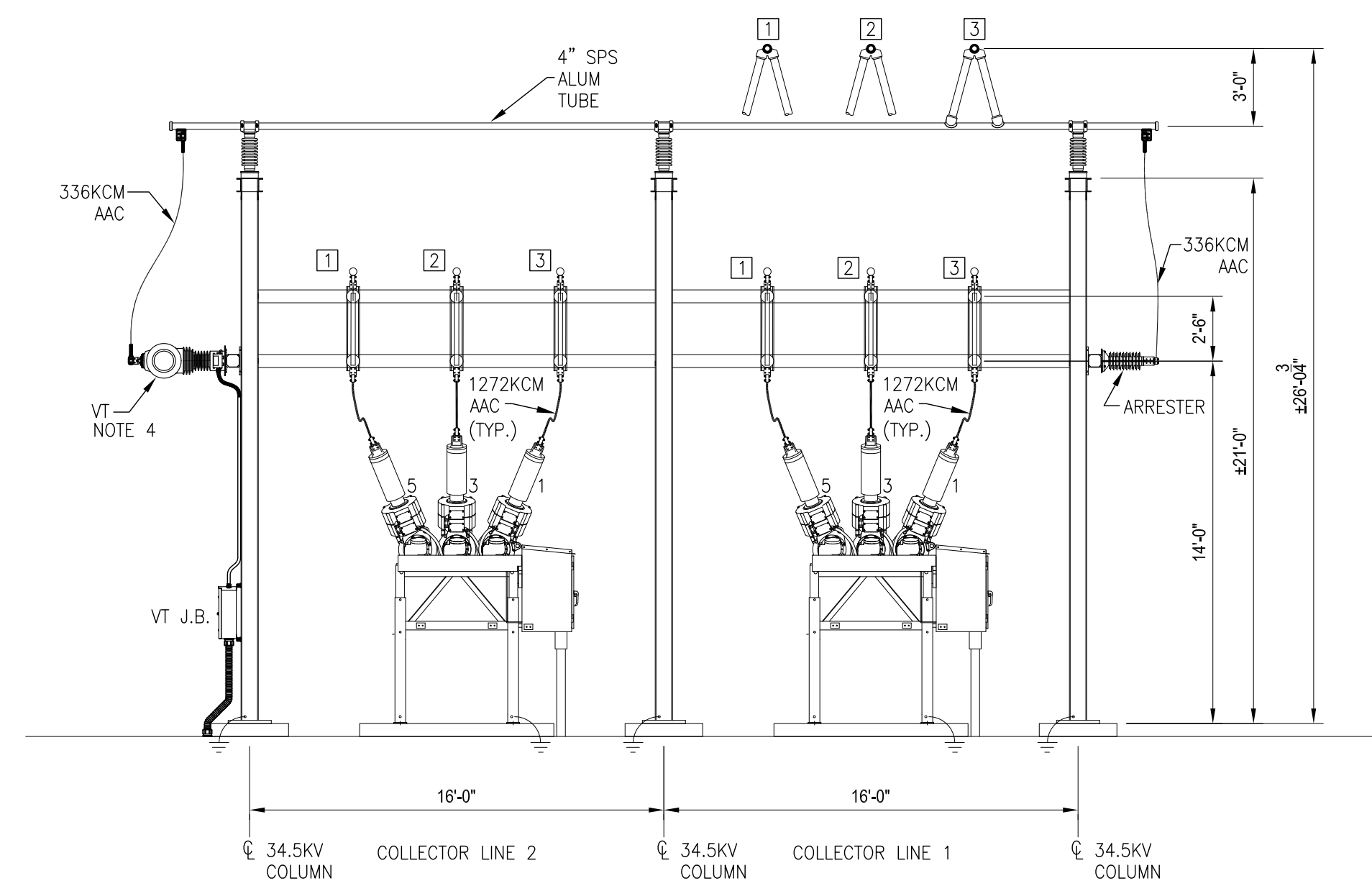
| REV | DESCRIPTION | DATE | DES | CHK | APP |
|-----|--------------------------|----------|-----|-----|-----|
| A | ISSUED FOR CLIENT REVIEW | 06/20/19 | AAD | DG | AKD |

PRELIMINARY
COLLECTOR SUBSTATION ELEVATIONS & SECTIONS A-A, B-B
HIGH RIVER ENERGY CENTER
HIGH RIVER ENERGY CENTER, LLC
FLORIDA MONTGOMERY CO., NY

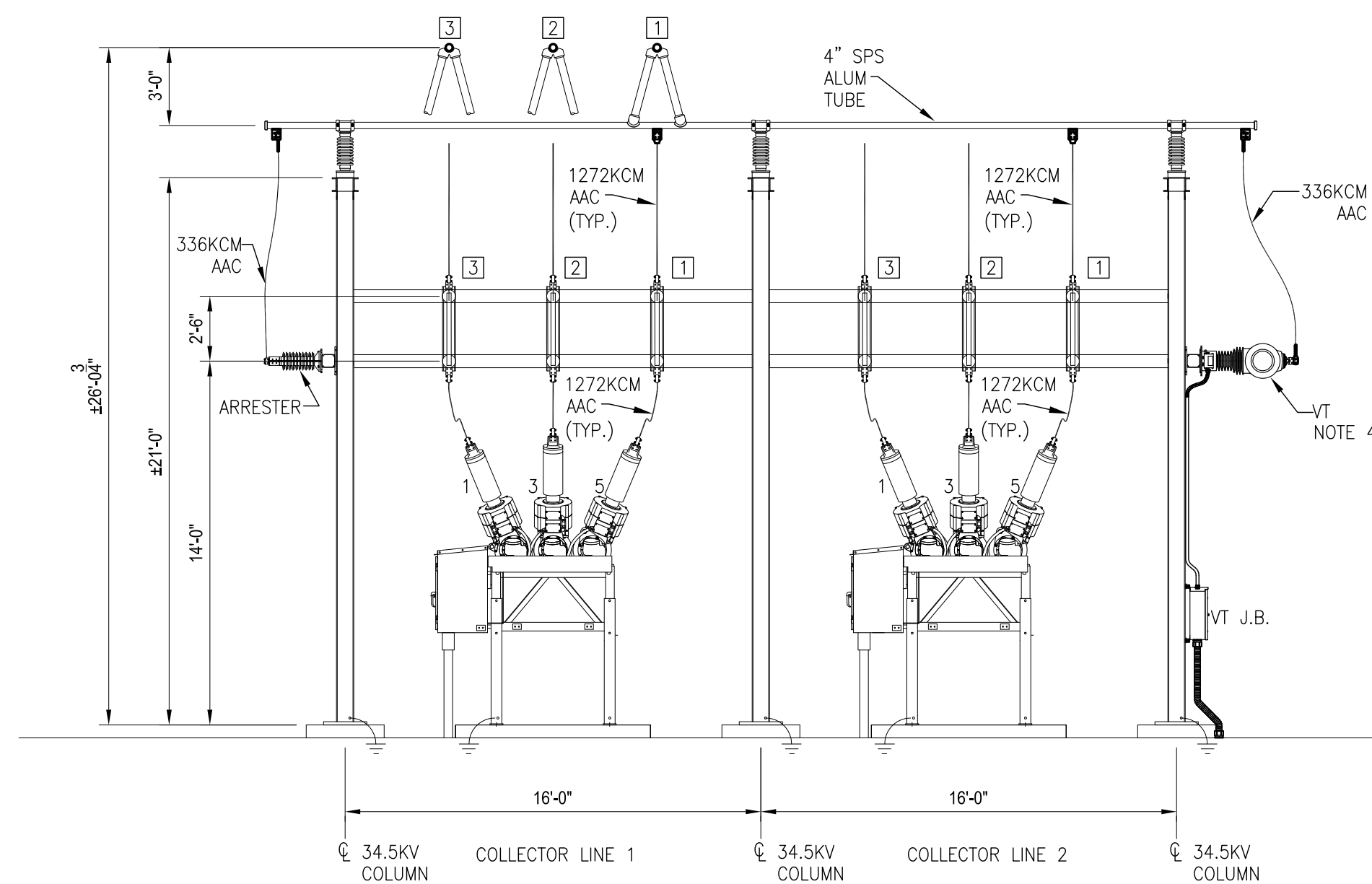
DATE: 06/20/19
SCALE: 1/8" = 1'-0"

TRC

S-003 REV. A



SECTION C-C
LINE-SIDE



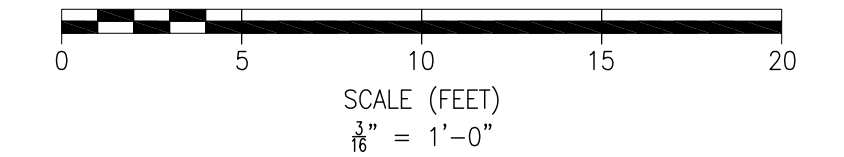
SECTION D-D
BUS-SIDE

NOTES:

- BUS SUPPORTS PROVIDED AND INSTALLED AS SHOWN FOR THE FOLLOWING TYPES:
F-FIXED BUS SUPPORT
S-SLIP BUS SUPPORT
EX-EXPANSION BUS SUPPORT
- CLEARANCES FOR ALL BUS & CONDUCTOR TO BE PER VALUES PUBLISHED IN ANSI C37.32 TABLE 5:
115KV-PHASE TO PHASE 7'-0" (CENTERLINE-CENTERLINE)
-PHASE TO GROUND 3'-11" (METAL TO METAL)
34.5KV-PHASE TO PHASE 3'-0" (CENTERLINE-CENTERLINE)
-PHASE TO GROUND 1'-3" (METAL TO METAL)
- WIRE CONDUCTOR MINIMUM BEND RADIUS TO BE INSTALLED NO LESS THAN:
1272KCM-20 INCHES
336KCM-10 INCHES
4/0 COPPER-8 INCHES
2/0 COPPER-6 INCHES
1/0 AAC-5.5 INCHES
#2 COPPER-4 INCHES
- BUS TIE VOLTAGE FMRS. TO BE INSTALLED H1-PHASE H2-GROUND.

REFERENCE DRAWINGS:

- S-001 - COLLECTOR SUBSTATION POWER ONE LINE DIAGRAM
- S-002 - COLLECTOR SUBSTATION GENERAL ARRANGEMENT PLAN
- S-003 - COLLECTOR SUBSTATION ELEVATIONS & SECTIONS A-A, B-B
- S-005 - COLLECTOR SUBSTATION YARD LIGHTING PLAN
- S-006 - COLLECTOR SUBSTATION FENCE & GROUNDING PLAN
- S-007 - COLLECTOR SUBSTATION FENCE & GROUNDING DETAILS
- S-008 - COLLECTOR SUBSTATION CONTROL HOUSE ELECTRICAL LAYOUT PLAN



PRELIMINARY
NOT FOR CONSTRUCTION



PROJECT NO: 327851

| REV | DESCRIPTION | DATE | DES | CHK | APP |
|-----|--------------------------|----------|-----|-----|-----|
| A | ISSUED FOR CLIENT REVIEW | 06/20/19 | AAD | DG | AKD |

AAD/TRC
DESIGNED
AAD/TRC
DRAWN
DG/TRC
CHECKED
AKD/TRC
APPROVED

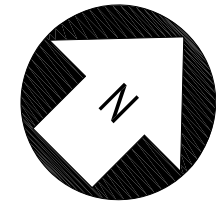
PRELIMINARY
COLLECTOR SUBSTATION SECTIONS C-C, D-D
HIGH RIVER ENERGY CENTER
HIGH RIVER ENERGY CENTER, LLC
MONTGOMERY CO., NY
FLORIDA

REVIEW 1
REVIEW 2

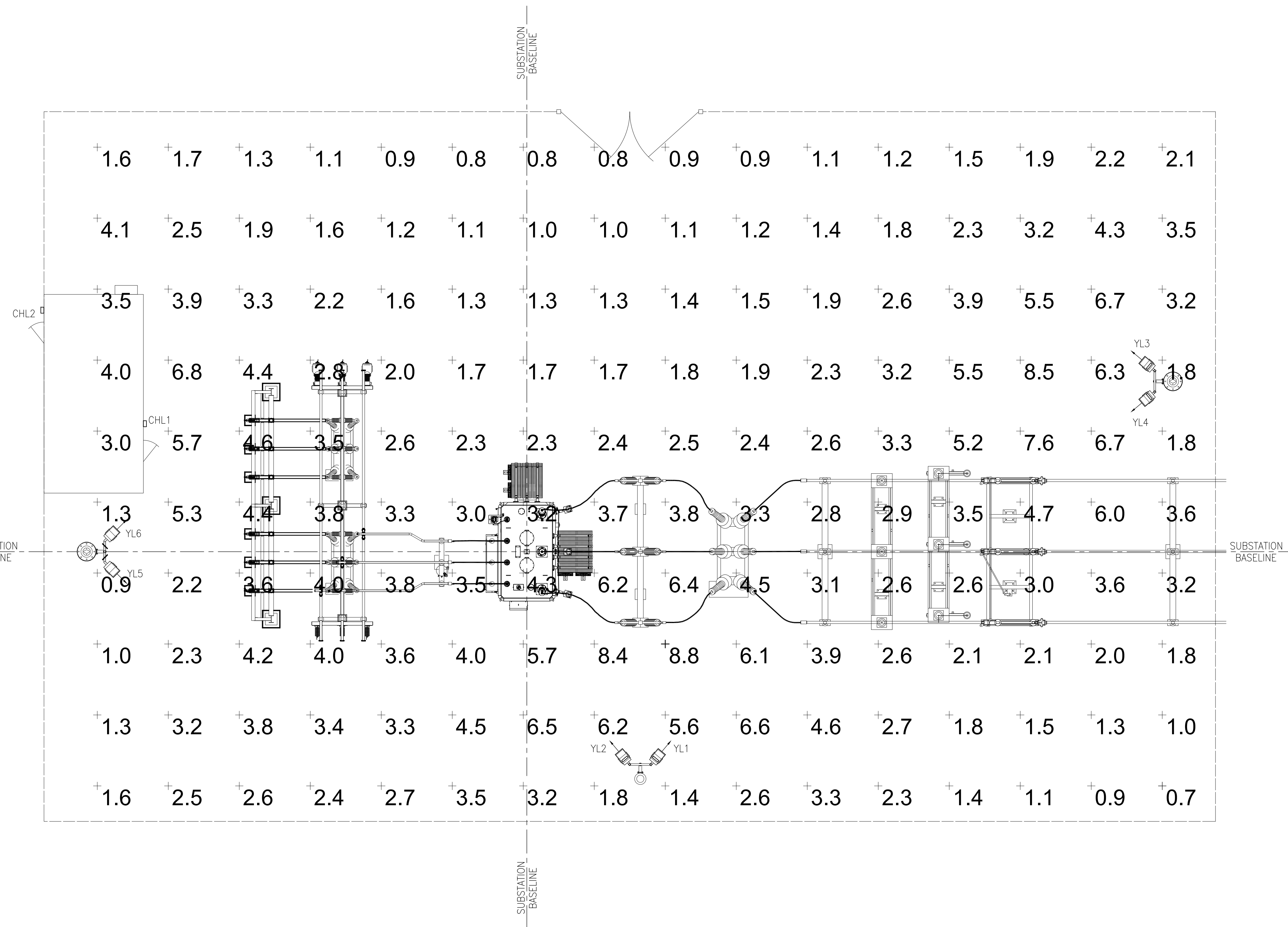
06/20/19
DATE
3/16"±1/4"
SCALE



S-004
REV. A



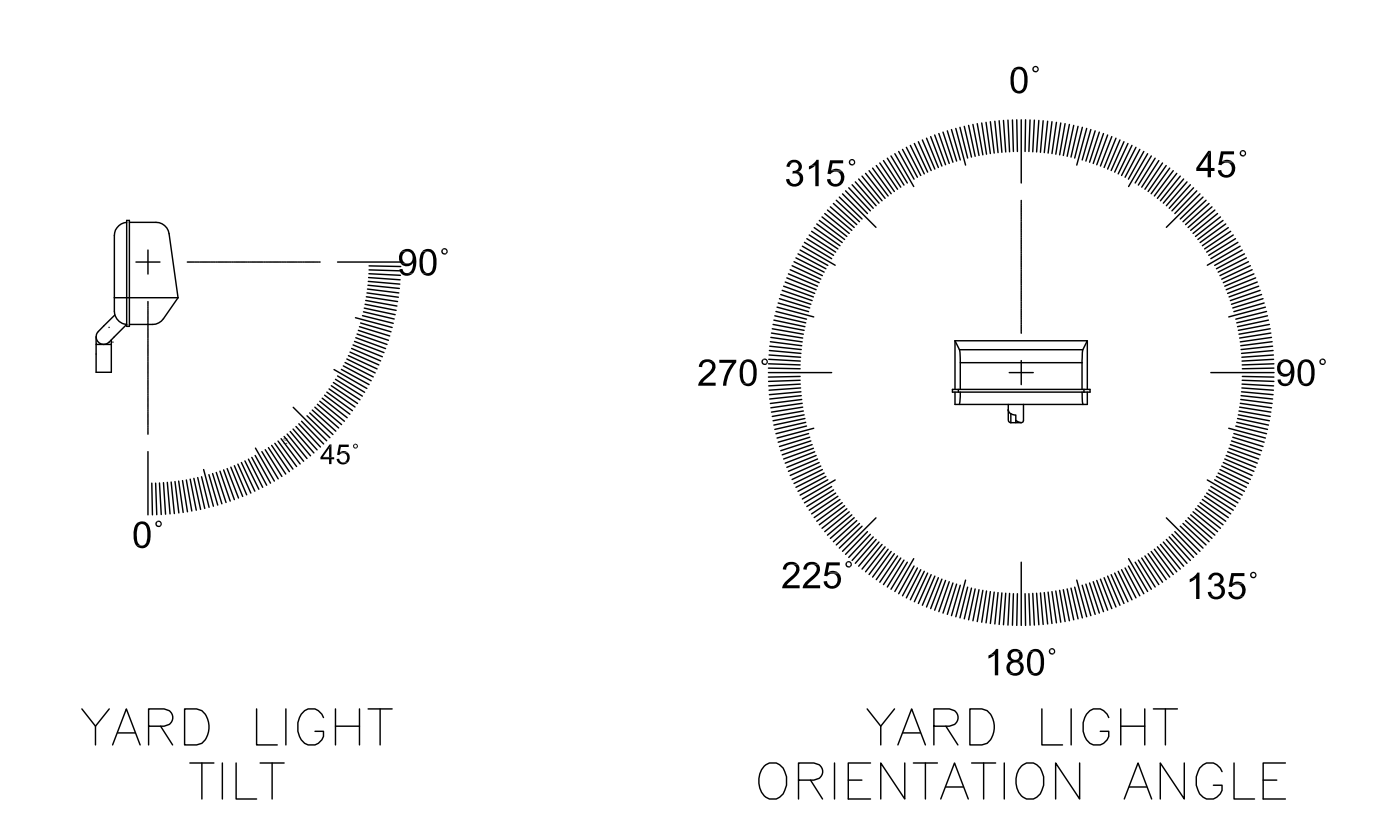
ADJUST DIRECTION OF NORTH ARROW AS NEEDED



PLAN VIEW

| YARD LIGHTING SCHEDULE | | | | | | |
|------------------------|-----------|---------|-----------------|-------------|----------------|--------------|
| LIGHT NO. | TYPE | WATTAGE | MOUNTING HEIGHT | ORIENTATION | YILT (DEGREES) | PANEL/CCT. # |
| YL1 | TFLU 250S | 250W | 30FT | 40 | 60 | --- |
| YL2 | TFLU 250S | 250W | 30FT | 320 | 60 | --- |
| YL3 | TFLU 250S | 250W | 30FT | 310 | 60 | --- |
| YL4 | TFLU 250S | 250W | 30FT | 230 | 60 | --- |
| YL5 | TFLU 250S | 250W | 30FT | 135 | 80 | --- |
| YL6 | TFLU 250S | 250W | 30FT | 45 | 80 | --- |
| CHL1 | TWA 70S | 70W | 10FT | --- | --- | --- |
| CHL2 | TWA 70S | 70W | 10FT | --- | --- | --- |

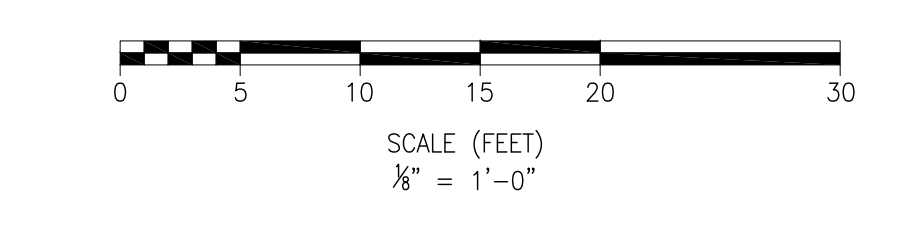
| STATISTICS - OVERALL SITE | | | | | | |
|---------------------------|--------|---------|---------|---------|---------|-------------|
| DESCRIPTION | SYMBOL | AVERAGE | MAXIMUM | MINIMUM | MAX/MIN | AVERAGE/MIN |
| SITE | + | 3.0 fc | 8.8 fc | 0.7 fc | 12.6:1 | 4.3:1 |



- LEGEND**
- [Symbol: TFLU fixture] "A" LIGHT FIXTURE, LITHONIA CONTOUR TFLU-250S (WOOD POLE MOUNTED)
 - [Symbol: TWA fixture] "C" LIGHT FIXTURE, LITHONIA CONTOUR TWA-70S (BUILDING MOUNTED)

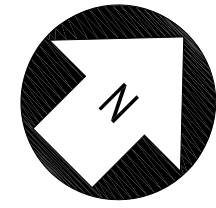
- NOTES:**
1. YARD FLOOD FIXTURES YL1, YL2, YL3, YL4, YL5 & YL6 ARE MOUNTED 30'-0" ABOVE FINISHED GRADE.
 2. EXTERIOR CONTROL HOUSE FIXTURES CHL1 & CHL2 ARE MOUNTED 10'-0" ABOVE FINISHED GRADE.
 3. INCIDENT LIGHT LEVEL POINTS ARE SPACED AT 10' X 10'.
 4. THE AVERAGE ILLUMINATION IN THE SUBSTATION YARD IS 3.0 FOOTCANDLES.
 5. YARD LIGHTING CONTROL EQUIPMENT IS DEFINED ON LIGHTING SCHEMATIC DWG.
 6. LIGHTING CALCULATIONS WERE PERFORMED USING VISUAL 2016, VERSION 2.08.
 7. OVERALL SITE LAYOUT INCLUDES PROPOSED PERIMETER AND PROPOSED WORK LIGHTING.
 8. PERIMETER LIGHTING CONTROL OPTIONS ARE ON/OFF/AUTO.
 9. WORK LIGHTING CONTROL OPTIONS ARE ON/OFF.

- REFERENCE DRAWINGS:**
- S-001 - COLLECTOR SUBSTATION POWER ONE LINE DIAGRAM
 - S-002 - COLLECTOR SUBSTATION GENERAL ARRANGEMENT PLAN
 - S-003 - COLLECTOR SUBSTATION ELEVATIONS & SECTIONS A-A, B-B
 - S-004 - COLLECTOR SUBSTATION SECTIONS C-C, D-D
 - S-006 - COLLECTOR SUBSTATION FENCE & GROUNDING PLAN
 - S-007 - COLLECTOR SUBSTATION FENCE & GROUNDING DETAILS
 - S-008 - COLLECTOR SUBSTATION CONTROL HOUSE ELECTRICAL LAYOUT PLAN

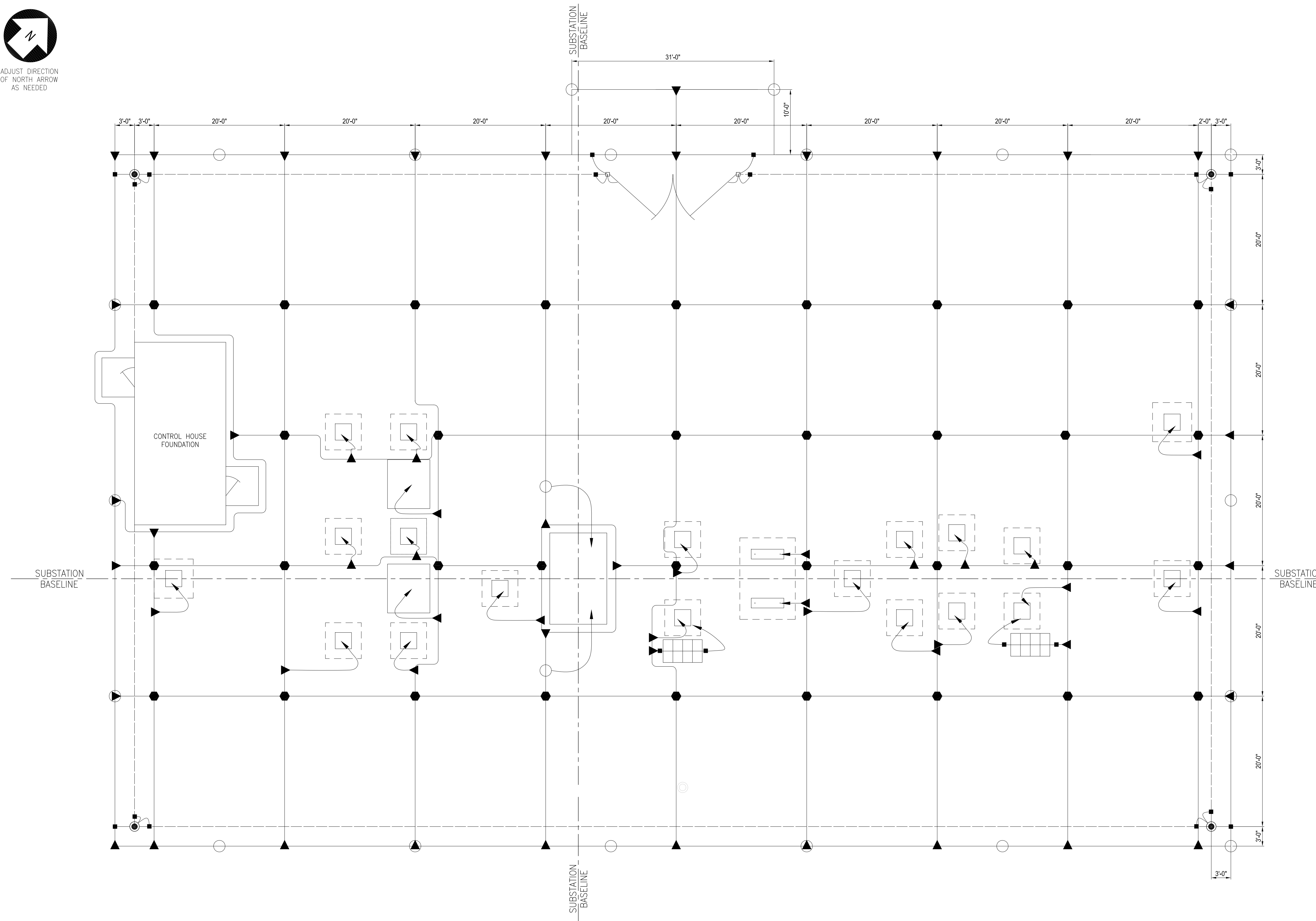


PRELIMINARY
NOT FOR CONSTRUCTION

| | | | | | | | | | | |
|--|-----|--------------------------|--|-----|-----|-----|---|---|-------|--------|
| TRC 249 Western Avenue Augusta, ME 04330 | | PROJECT NO: 327851 | PRELIMINARY COLLECTOR SUBSTATION YARD LIGHTING PLAN HIGH RIVER ENERGY CENTER HIGH RIVER ENERGY CENTER, LLC FLORIDA MONTGOMERY CO., NY | | | | | | | |
| REFERENCES | REV | DESCRIPTION | DATE | DES | CHK | APP | AAD/TRC DESIGNED AAD/TRC DRAWN DG/TRC CHECKED AKD/TRC APPROVED | REVIEW 1 DATE: 06/20/19 SCALE: 1/8"=1'-0" | | REV. A |
| | A | ISSUED FOR CLIENT REVIEW | 06/20/19 | AAD | DG | AKD | | | S-005 | |



ADJUST DIRECTION OF NORTH ARROW AS NEEDED



PLAN VIEW

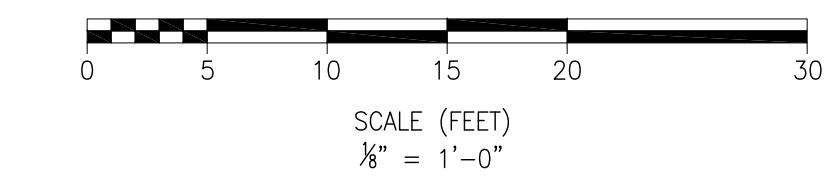
| LEGEND OF SYMBOLS: | | |
|--------------------|---|---------------|
| SYMBOL | DESCRIPTION | MATERIAL MARK |
| | 8' PERIMETER FENCE | G01 |
| | GROUND CLAMP, GALV. PIPE TO CABLE (FOR LINE POST) | G04 |
| | GROUND CLAMP, GALV. PIPE TO CABLE (FOR GATE POST) | G05 |
| | GROUND CLAMP, GALV. PIPE TO CABLE (FOR INTERMEDIATE POST) | G06 |
| | SPLIT BOLT CONNECTOR | G07 |
| | 2/0 COPPER GROUND STRAND SOFT DRAWN | G08 |
| | 4/0 COPPER GROUND WIRE 19 STRAND SOFT DRAWN | G09 |
| | 4/0 COPPER WIRE PIGTAIL | G09 |
| | GROUND CLAMP, GALV. PIPE TO CABLE | G10 |
| | GROUND CLAMP, GALV. PIPE TO CABLE (FOR GATE FRAME) | G11 |
| | CONNECTOR, GROUND, #2/0 TO GALV. PIPE | G12 |
| | 4/0 TO 4/0 COPPER WIRE CROSS CONNECTION | G13 |
| | 4/0 TO 4/0 COPPER WIRE TEE CONNECTION | G13 |
| | 4/0 TO 1/0 COPPER WIRE TEE CONNECTION | G15 |
| | BRAID, 1/8" X 18", TINNED COPPER, FERRULE ENDS, | G16 |
| | 4' X 6' COPPER WIRE SWITCH MAT | G17 |
| | GROUND ROD LOCATION | G20 |
| | FENCE POST | TBD |

NOTES:

1. PERIMETER GROUND CONDUCTOR TO BE A CONTINUOUS LOOP.
2. THE GROUND GRID SHALL BE 4/0 COPPERWELD AND BURIED AT A MINIMUM DEPTH OF 2'-0" BELOW GRADE.
3. TAPS FROM MAIN GRID SHALL BE AT LOCATIONS INDICATED TO GROUND STRUCTURE COLUMNS, EQUIPMENT, ETC.
4. PROVIDE TAPS FOR FENCE GROUND AT EACH GATE POST, CORNER POST AND FOR EVERY THIRD OR FOURTH LINE POST.
5. ALL TAPS SHALL EXTEND AT LEAST 6'-0" ABOVE FINISHED GRADE (AFG), UNLESS OTHERWISE NOTED.

REFERENCE DRAWINGS:

- S-001 - COLLECTOR SUBSTATION POWER ONE LINE DIAGRAM
- S-002 - COLLECTOR SUBSTATION GENERAL ARRANGEMENT PLAN
- S-003 - COLLECTOR SUBSTATION ELEVATIONS & SECTIONS A-A, B-B
- S-004 - COLLECTOR SUBSTATION SECTIONS C-C, D-D
- S-005 - COLLECTOR SUBSTATION YARD LIGHTING PLAN
- S-007 - COLLECTOR SUBSTATION FENCE & GROUNDING DETAILS
- S-008 - COLLECTOR SUBSTATION CONTROL HOUSE ELECTRICAL LAYOUT PLAN



PRELIMINARY
NOT FOR CONSTRUCTION

| | | | | | | | |
|------------|--|-----|--------------------------|----------|-----|-----|-----|
| REFERENCES | | REV | DESCRIPTION | DATE | DES | CHK | APP |
| | | A | ISSUED FOR CLIENT REVIEW | 06/20/19 | AAD | DG | AKD |

TRC 249 Western Avenue
Augusta, ME 04330

PROJECT NO: 327851

| | |
|---------------------|--|
| AAD/TRC DESIGNED | |
| AAD/TRC DRAWN | |
| DG/TRC CHECKED | |
| AKD/TRC APPROVED | |

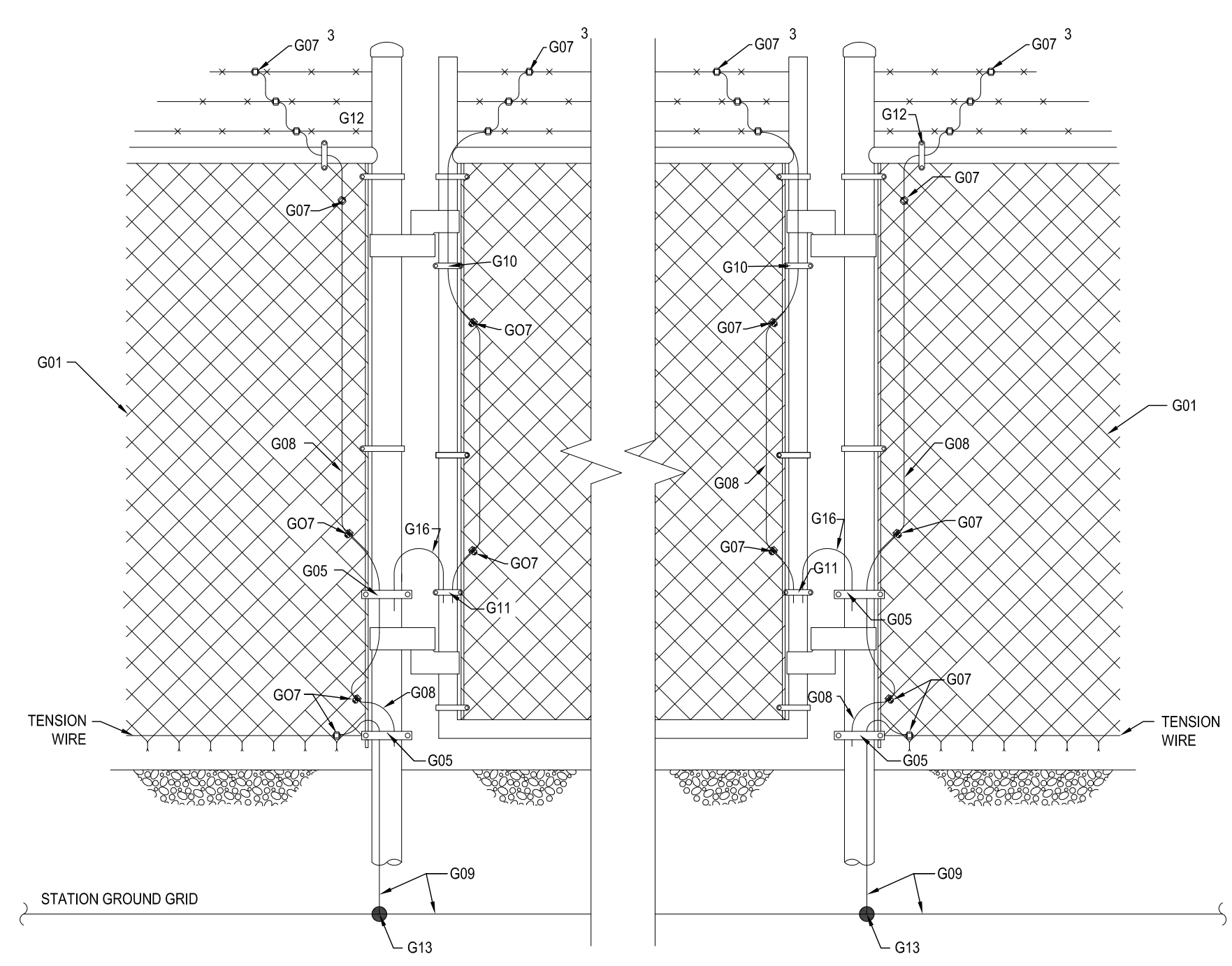
PRELIMINARY
COLLECTOR SUBSTATION FENCE & GROUNDING PLAN
HIGH RIVER ENERGY CENTER
HIGH RIVER ENERGY CENTER, LLC
FLORIDA MONTGOMERY CO., NY

06/20/19
DATE
1/8"=1'-0"
SCALE

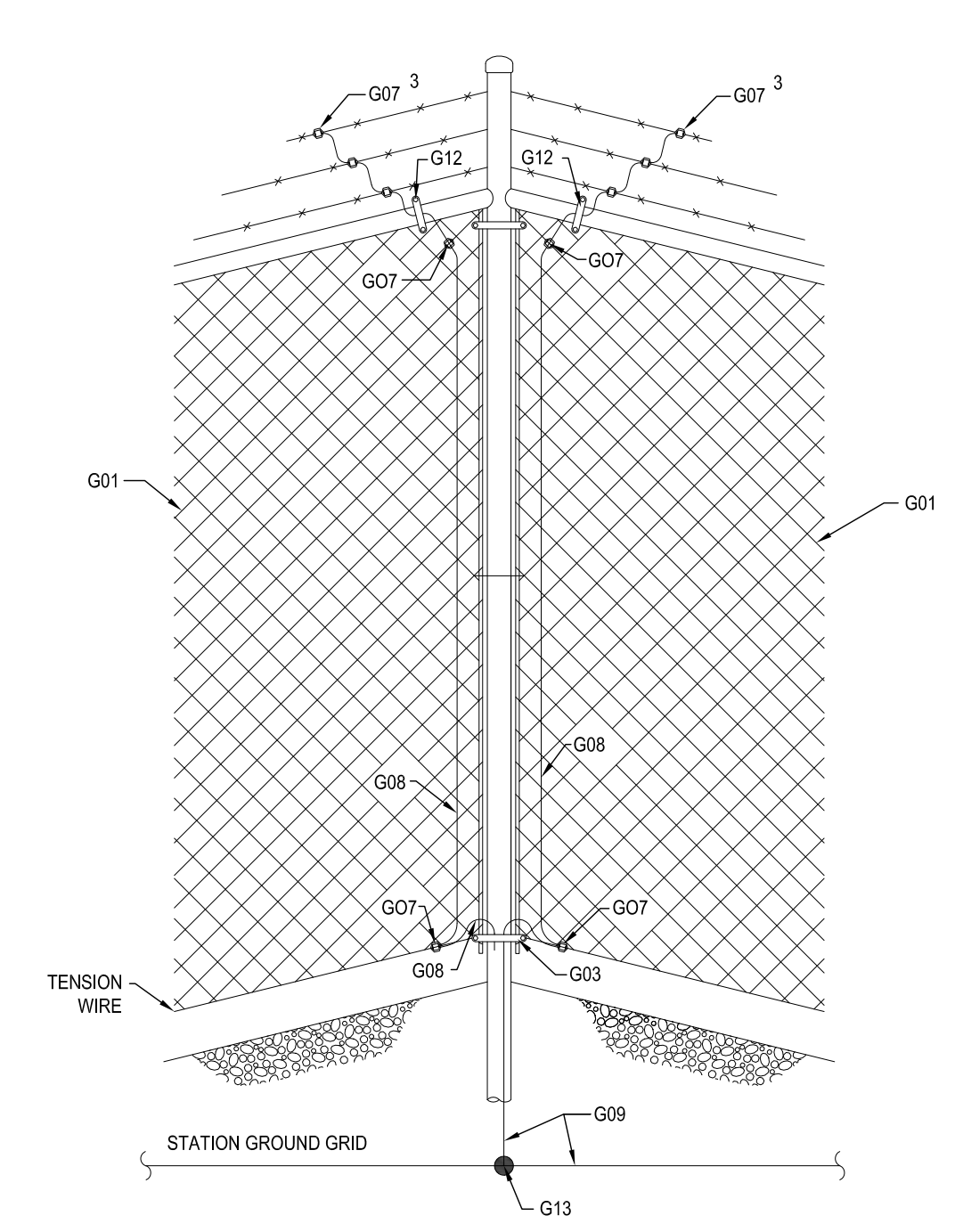
TRC

S-006

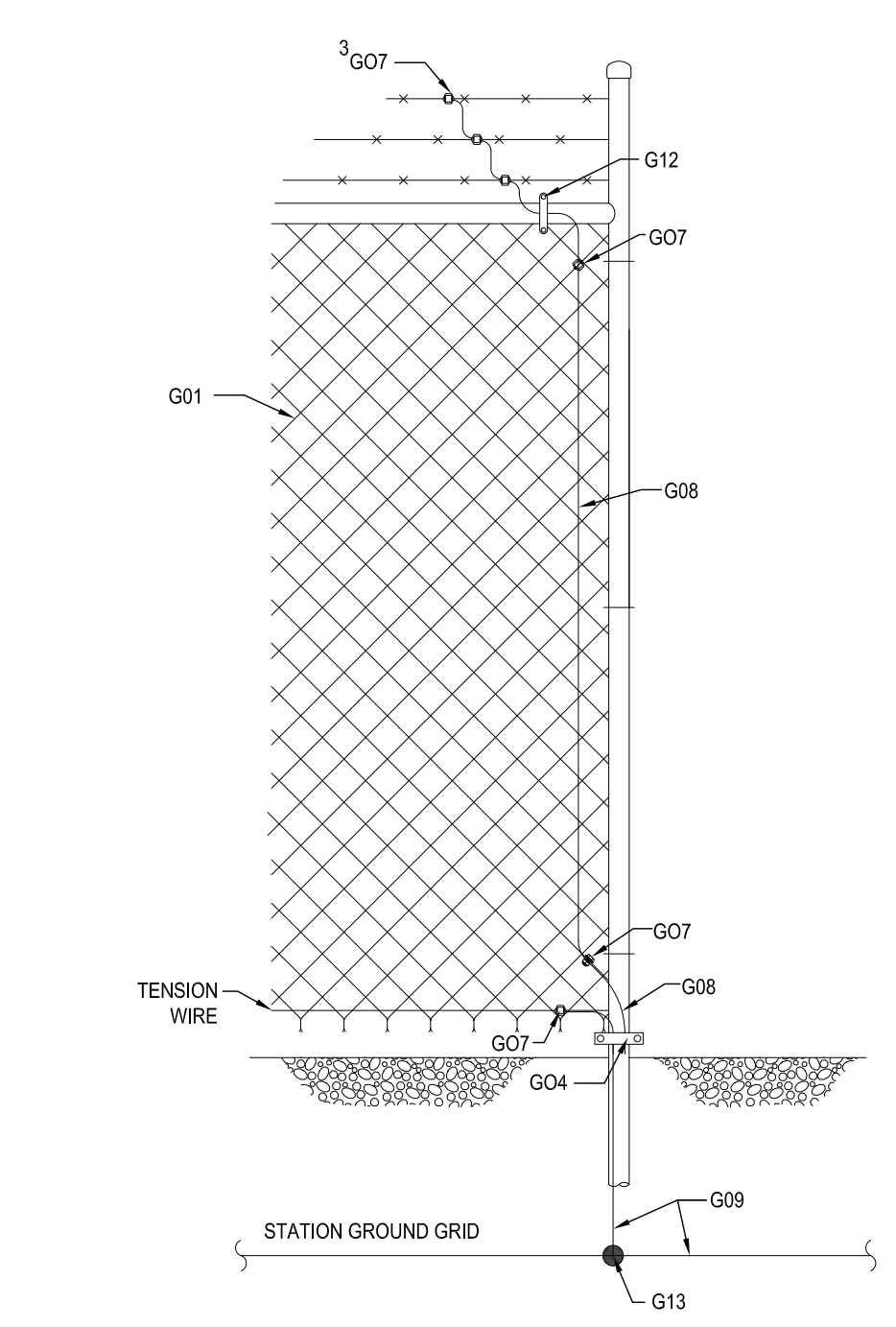
REV. A



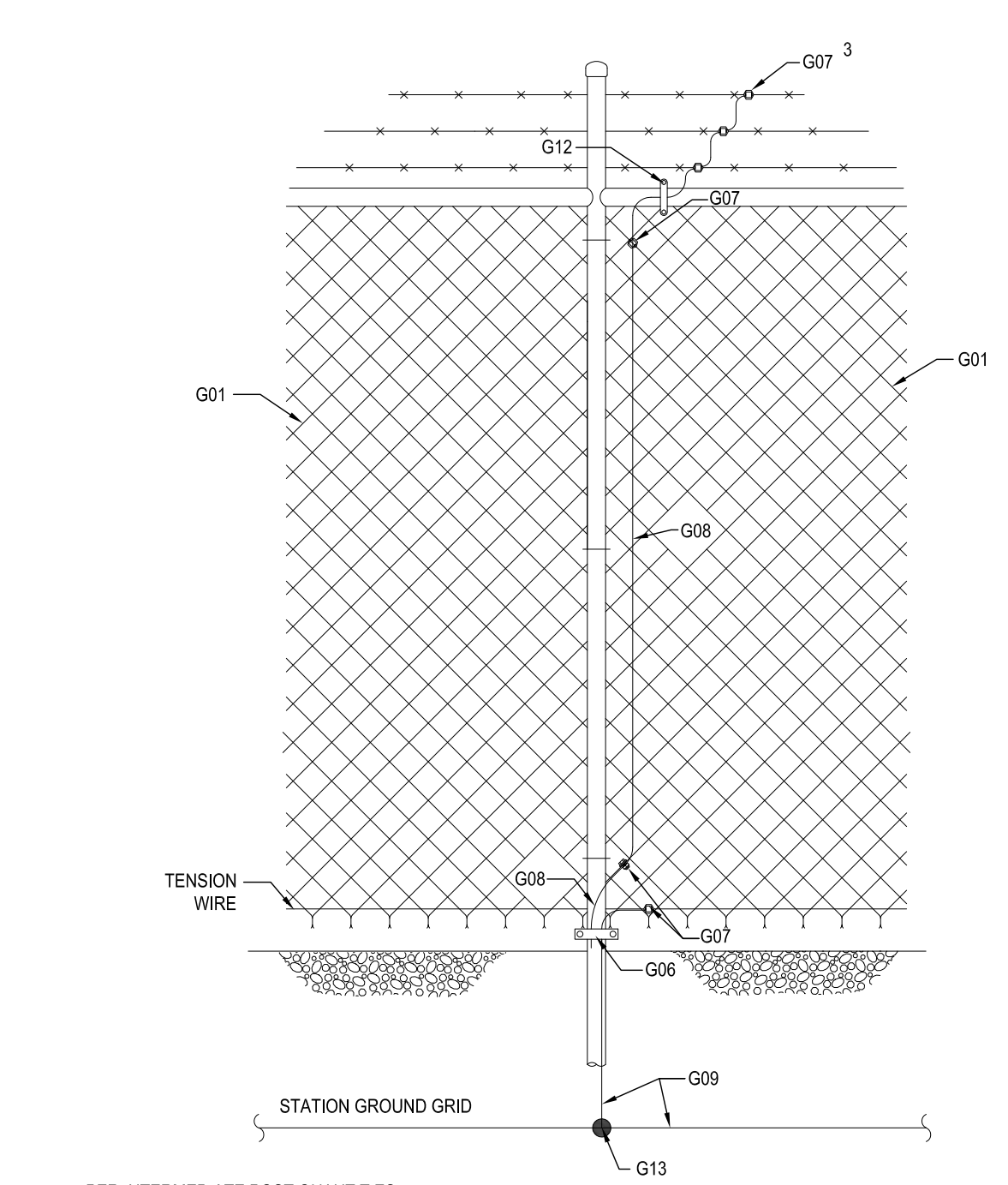
PER GATE QUANTITIES
 G05 Qty 4 G10 Qty 2
 G07 Qty 24 G11 Qty 2
 G08 Qty 32 G12 Qty 2
 G09 Qty 20 G13 Qty 2
 G16 Qty 4



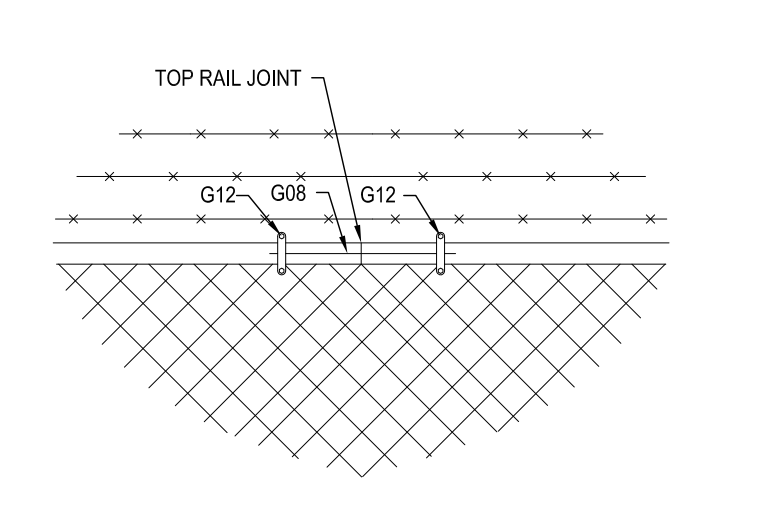
PER CORNER POST QUANTITIES
 G03 Qty 1 G09 Qty 10'
 G07 Qty 10 G12 Qty 2
 G08 Qty 20 G13 Qty 1



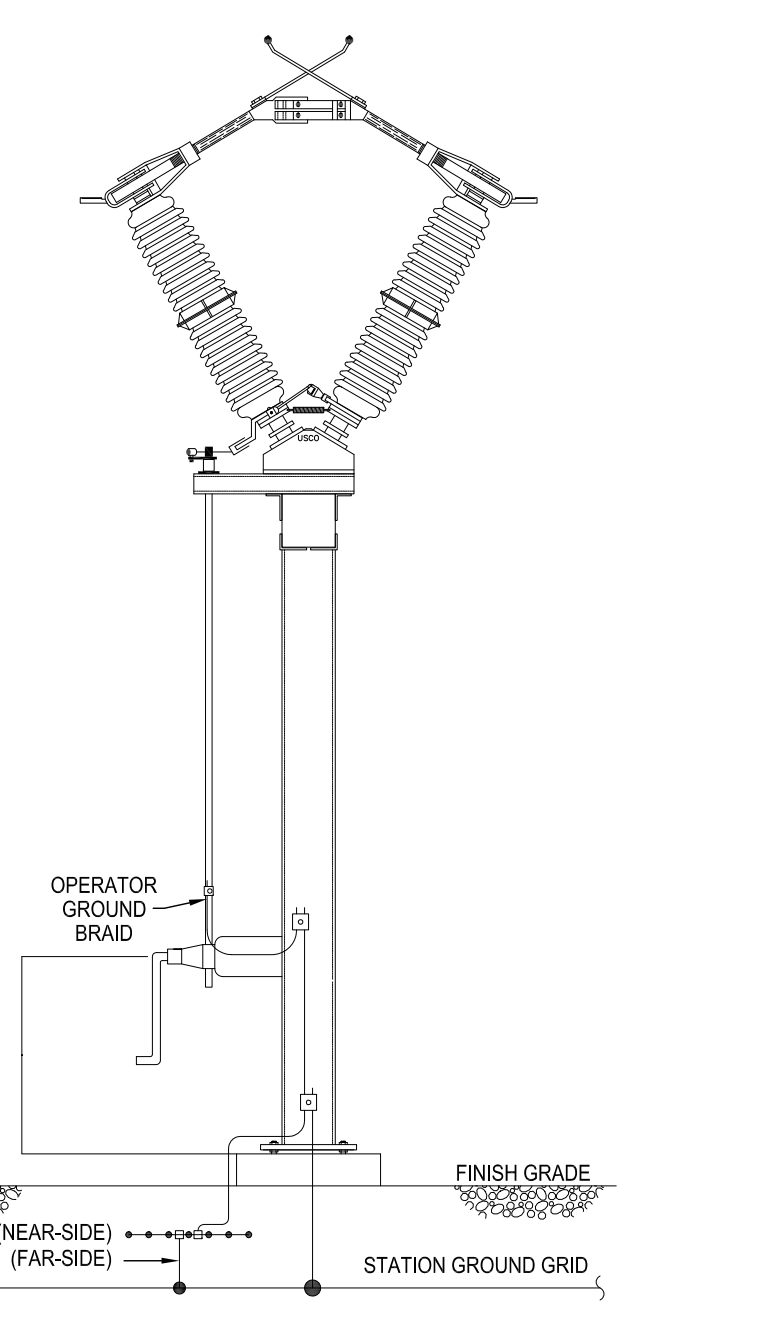
PER END POST QUANTITIES
 G04 Qty 1 G09 Qty 10'
 G07 Qty 6 G12 Qty 1
 G08 Qty 8 G13 Qty 1



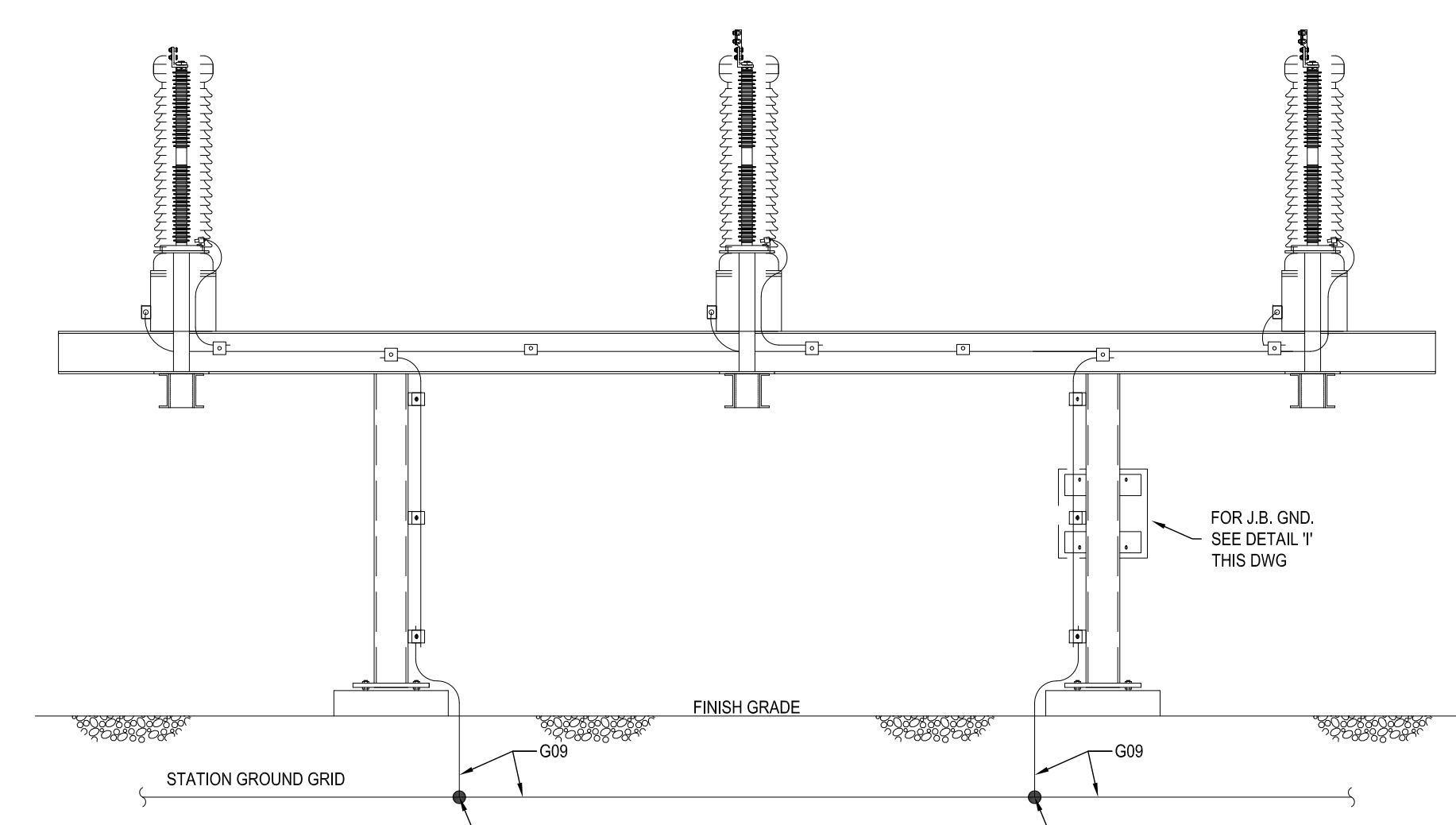
PER INTERMEDIATE POST QUANTITIES
 G06 Qty 1 G12 Qty 1
 G07 Qty 6 G13 Qty 1
 G08 Qty 8 G09 Qty 10'



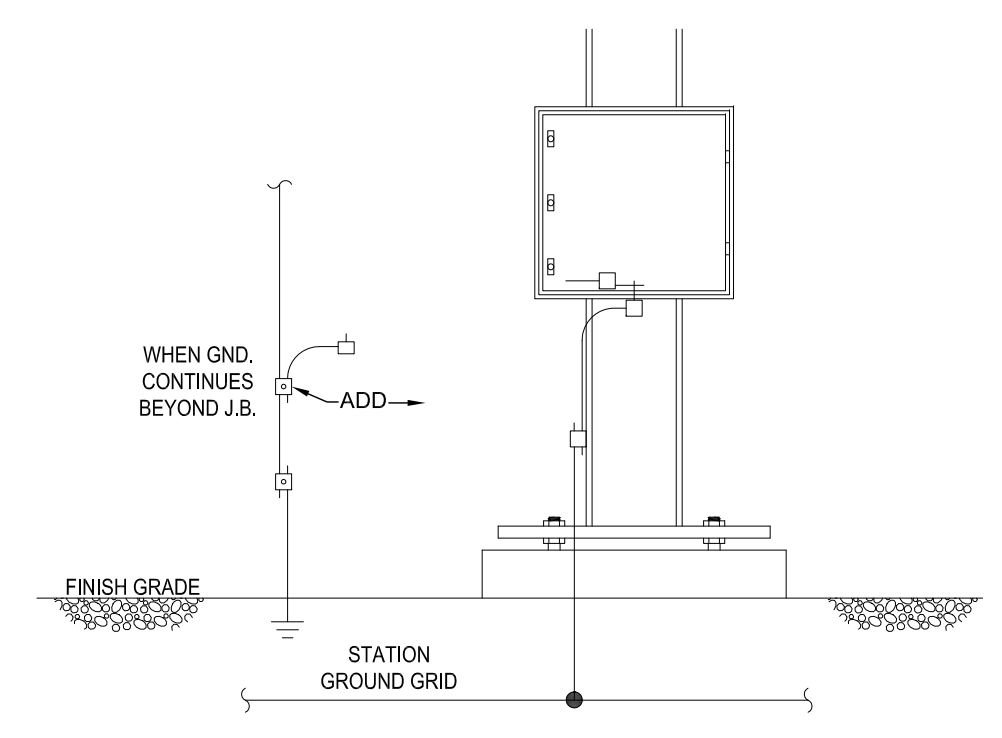
DETAIL "E"
TOP RAIL JOINT GROUNDING



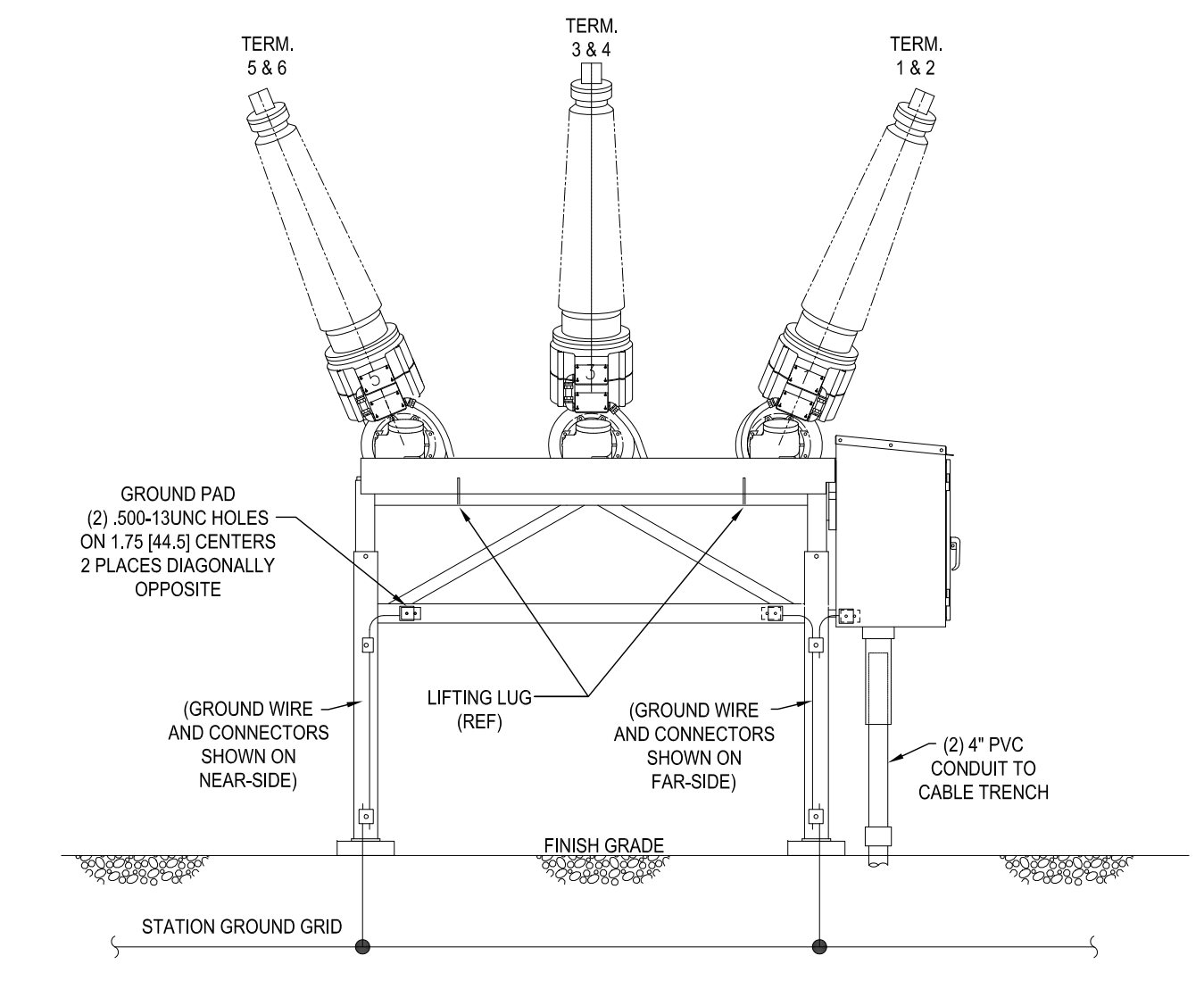
DETAIL "K"
TYPICAL VEE SWITCH GROUNDING



DETAIL "H"
TYPICAL 11KV CCVTLA GROUNDING

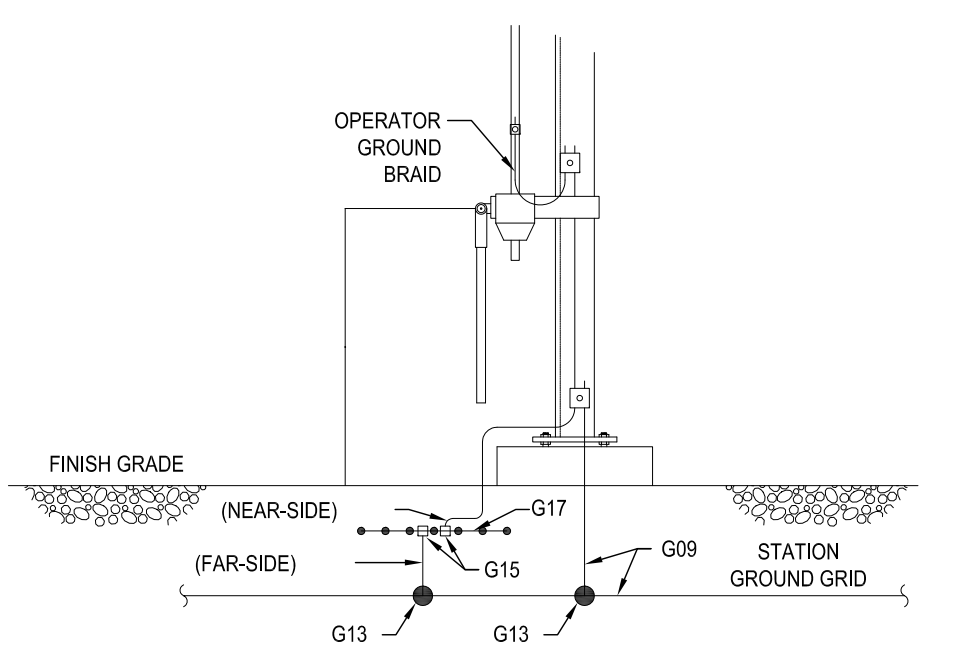


DETAIL "I"
TYPICAL JUNCTION BOX GROUNDING

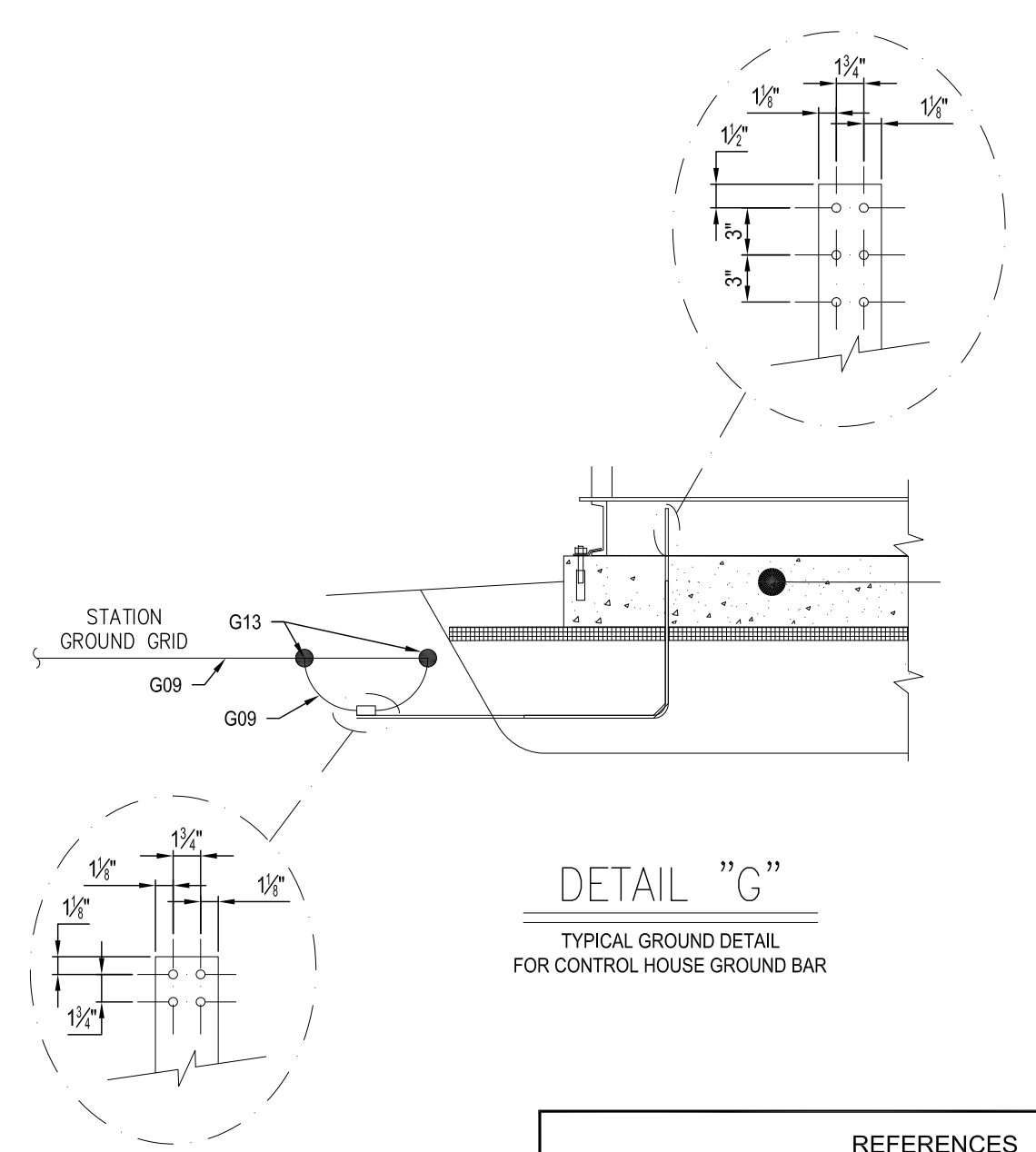


DETAIL "J"
TYPICAL BREAKER & MECH HOUSING GROUNDING

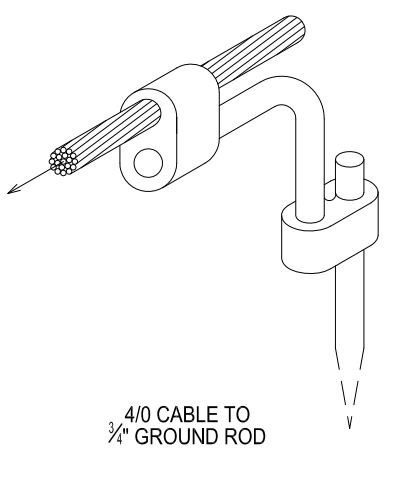
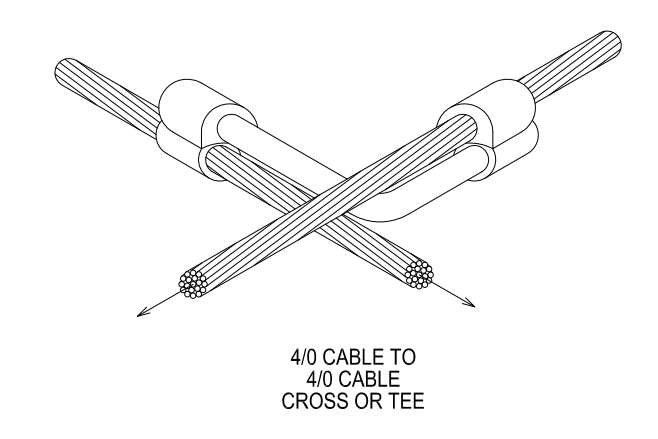
- REFERENCE DRAWINGS:**
- S-001 - COLLECTOR SUBSTATION POWER ONE LINE DIAGRAM
 - S-002 - COLLECTOR SUBSTATION GENERAL ARRANGEMENT PLAN
 - S-003 - COLLECTOR SUBSTATION ELEVATIONS & SECTIONS A-A, B-B
 - S-004 - COLLECTOR SUBSTATION SECTIONS C-C, D-D
 - S-005 - COLLECTOR SUBSTATION YARD LIGHTING PLAN
 - S-006 - COLLECTOR SUBSTATION FENCE & GROUNDING PLAN
 - S-008 - COLLECTOR SUBSTATION CONTROL HOUSE ELECTRICAL LAYOUT PLAN



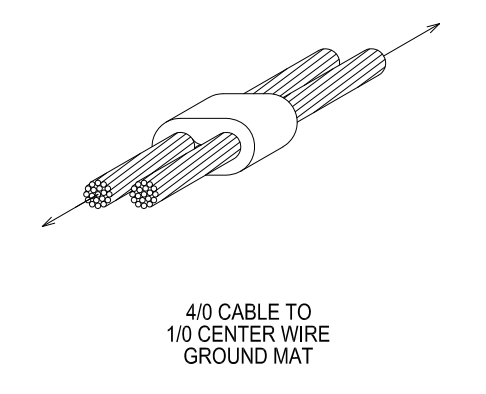
DETAIL "F"
TYPICAL GROUND DETAIL AT WORM GEAR SW. OPER. MECH.



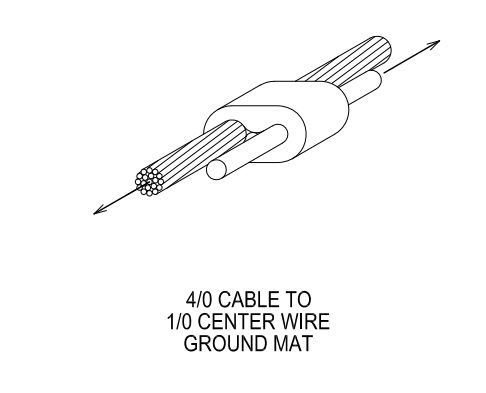
DETAIL "G"
TYPICAL GROUND DETAIL FOR CONTROL HOUSE GROUND BAR



BURNDY CAT.#YGL28C29 MARK"G13"
 CONDUCTOR RANGE:
 COND. "A" - #2 STR.-250KCM
 COND. "B" - #2 STR.-250KCM
 COMPRESSION TOOLS:
 Y750Y35Y39 HYPRESS
 Y45 HYPRESS W/ PT6515 ADAPTER
 Y46 HYPRESS W/ P-JADP ADAPTER
 DIE SET CAT.# U997
 ONE (1) CRIMP REQUIRED



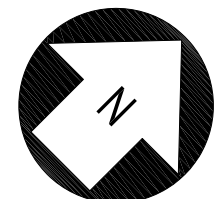
BURNDY CAT.#YGH28C29 MARK"G23"
 CONDUCTOR RANGE:
 RUN - #3/0 STR.-250KCM
 TAP - #3/0 STR.-250KCM
 COMPRESSION TOOLS:
 Y750Y35Y39 HYPRESS
 DIE SET CAT.# U997
 ONE (1) CRIMP REQUIRED



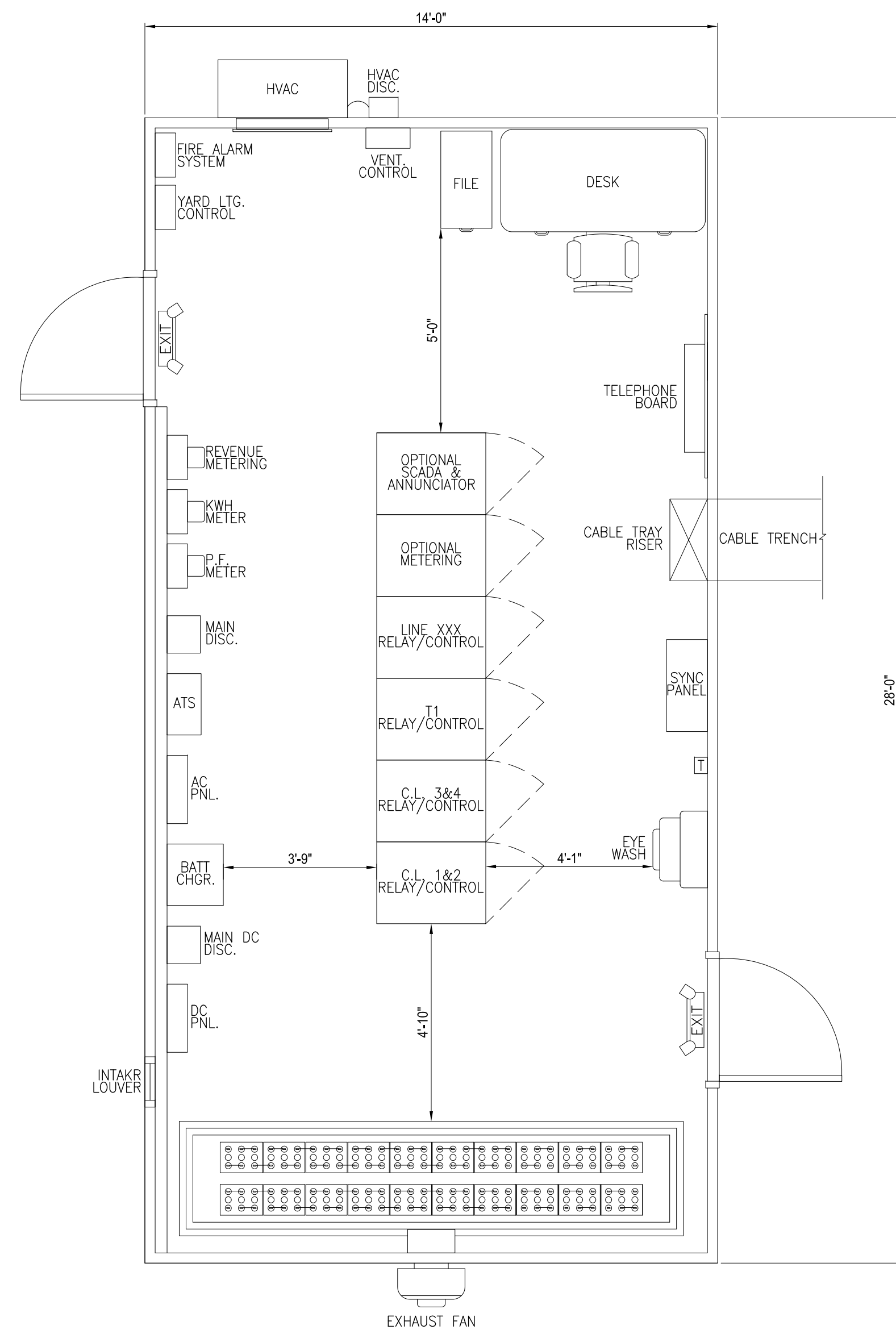
BURNDY CAT.#YGL34C29 MARK"G14"
 CONDUCTOR RANGE:
 ROD - #1 - 20'
 CABLE - #2 STR.-250KCM
 COMPRESSION TOOLS:
 Y750Y45Y46 HYPRESS
 Y750 COND. "A" DIE SET CAT.# PU998
 Y750 COND. "B" DIE SET CAT.# U997
 Y45 COND. "A" DIE SET CAT.# S998 OR PU998
 Y46 COND. "A" DIE SET CAT.# U997
 Y46 COND. "B" DIE SET CAT.# P998 OR PU998
 Y46 COND. "B" DIE SET CAT.# U997
 ONE (1) CRIMP REQUIRED
 TWO (2) CRIMP ON GND. ROD
 PRECRIMP GND. ROD USE CAT.#J2CABT

PRELIMINARY
NOT FOR CONSTRUCTION

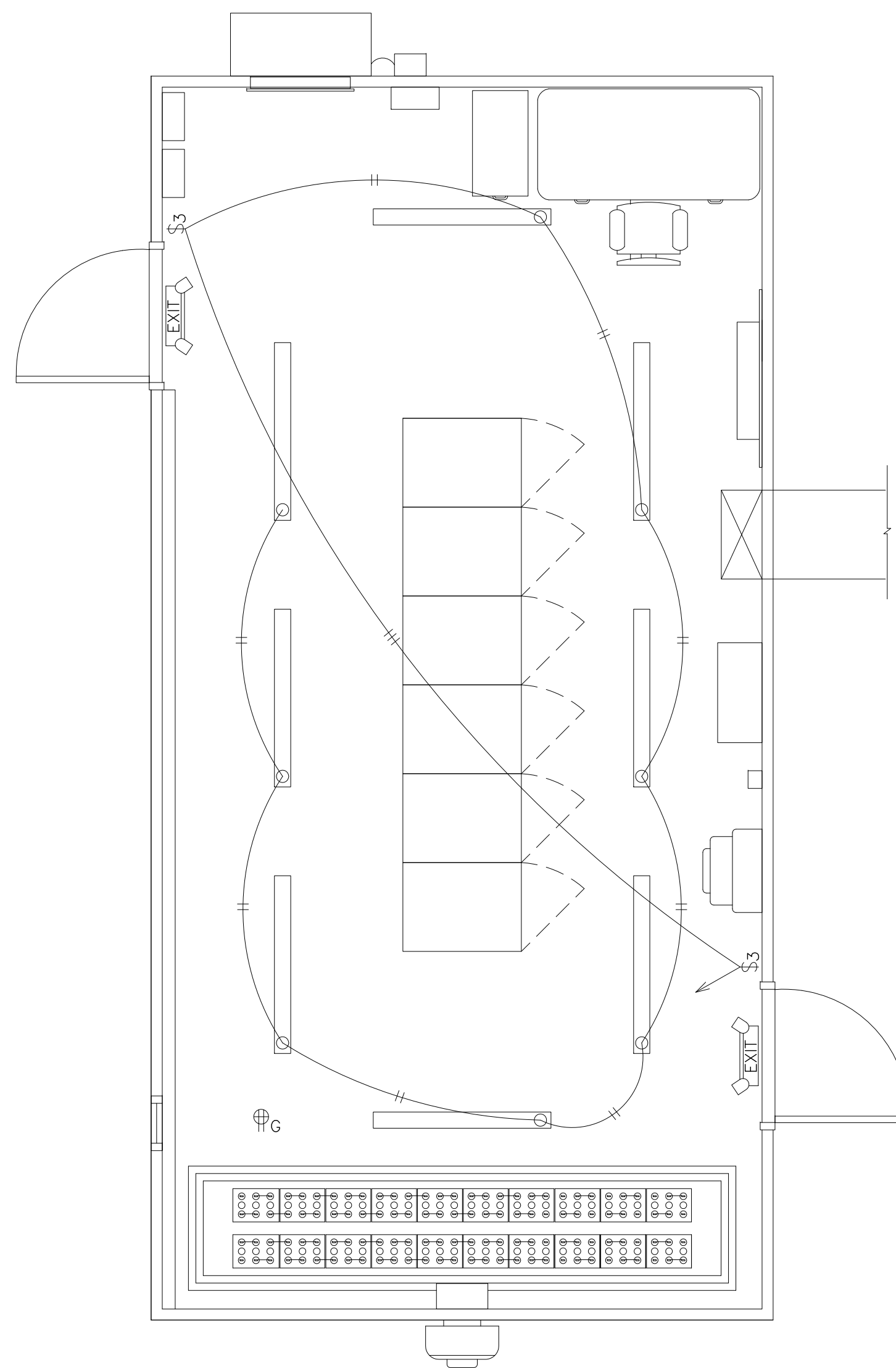
| TRC 249 Western Avenue Augusta, ME 04330 | PROJECT NO: 327851 | | | | AAD/TRC DESIGNED AAD/TRC DRAWN DG/TRC CHECKED AKD/TRC APPROVED | | PRELIMINARY COLLECTOR SUBSTATION FENCE & GROUNDING DETAILS HIGH RIVER ENERGY CENTER HIGH RIVER ENERGY CENTER, LLC FLORIDA MONTGOMERY CO., NY | | | | | | | | | | | | | | | | | | |
|---|---|----------|-------------|------|---|-----|--|---|--------------------------|----------|-----|----|-----|--|-----|------|-------|----------|----------|------|----------|--|--|--|-------|
| | <table border="1"> <thead> <tr> <th>REV</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DES</th> <th>CHK</th> <th>APP</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>ISSUED FOR CLIENT REVIEW</td> <td>06/20/19</td> <td>AAD</td> <td>DG</td> <td>AKD</td> </tr> </tbody> </table> | REV | DESCRIPTION | DATE | DES | CHK | APP | A | ISSUED FOR CLIENT REVIEW | 06/20/19 | AAD | DG | AKD | <table border="1"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>SCALE</th> </tr> </thead> <tbody> <tr> <td>REVIEW 1</td> <td>06/20/19</td> <td>NONE</td> </tr> <tr> <td>REVIEW 2</td> <td></td> <td></td> </tr> </tbody> </table> | REV | DATE | SCALE | REVIEW 1 | 06/20/19 | NONE | REVIEW 2 | | | | S-007 |
| REV | DESCRIPTION | DATE | DES | CHK | APP | | | | | | | | | | | | | | | | | | | | |
| A | ISSUED FOR CLIENT REVIEW | 06/20/19 | AAD | DG | AKD | | | | | | | | | | | | | | | | | | | | |
| REV | DATE | SCALE | | | | | | | | | | | | | | | | | | | | | | | |
| REVIEW 1 | 06/20/19 | NONE | | | | | | | | | | | | | | | | | | | | | | | |
| REVIEW 2 | | | | | | | | | | | | | | | | | | | | | | | | | |



ADJUST DIRECTION
OF NORTH ARROW
AS NEEDED



CONTROL ROOM FLOOR PLAN



CONTROL ROOM LIGHTING PLAN

LEGEND:

- \$ - SINGLE TOGGLE SWITCH
- \$3 - 3 WAY TOGGLE SWITCH
- T - HVAC THERMOSTAT
- - WIRING HOME RUN, SINGLE POLE
- ⇒ - WIRING HOME RUN, DOUBLE POLE
- ⊕G - DOUBLE DUPLEX OUTLET, 20A

LIGHTING SCHEDULE:

- ⎓ - FLOURESCENT LIGHT FIXTURE, 2 LAMP 4', 32 WATT, 120V
- - OUTDOOR LIGHT FIXTURE, HIGH PRESSURE SODIUM, 70 WATT, 120V
- EXIT - EMERGENCY BATTERY LIGHT/EXIT SIGN, 120V

REFERENCE DRAWINGS:

- S-001 - COLLECTOR SUBSTATION POWER ONE LINE DIAGRAM
- S-002 - COLLECTOR SUBSTATION GENERAL ARRANGEMENT PLAN
- S-003 - COLLECTOR SUBSTATION ELEVATIONS & SECTIONS A-A, B-B
- S-004 - COLLECTOR SUBSTATION SECTIONS C-C, D-D
- S-005 - COLLECTOR SUBSTATION YARD LIGHTING PLAN
- S-006 - COLLECTOR SUBSTATION FENCE & GROUNDING PLAN
- S-007 - COLLECTOR SUBSTATION FENCE & GROUNDING DETAILS

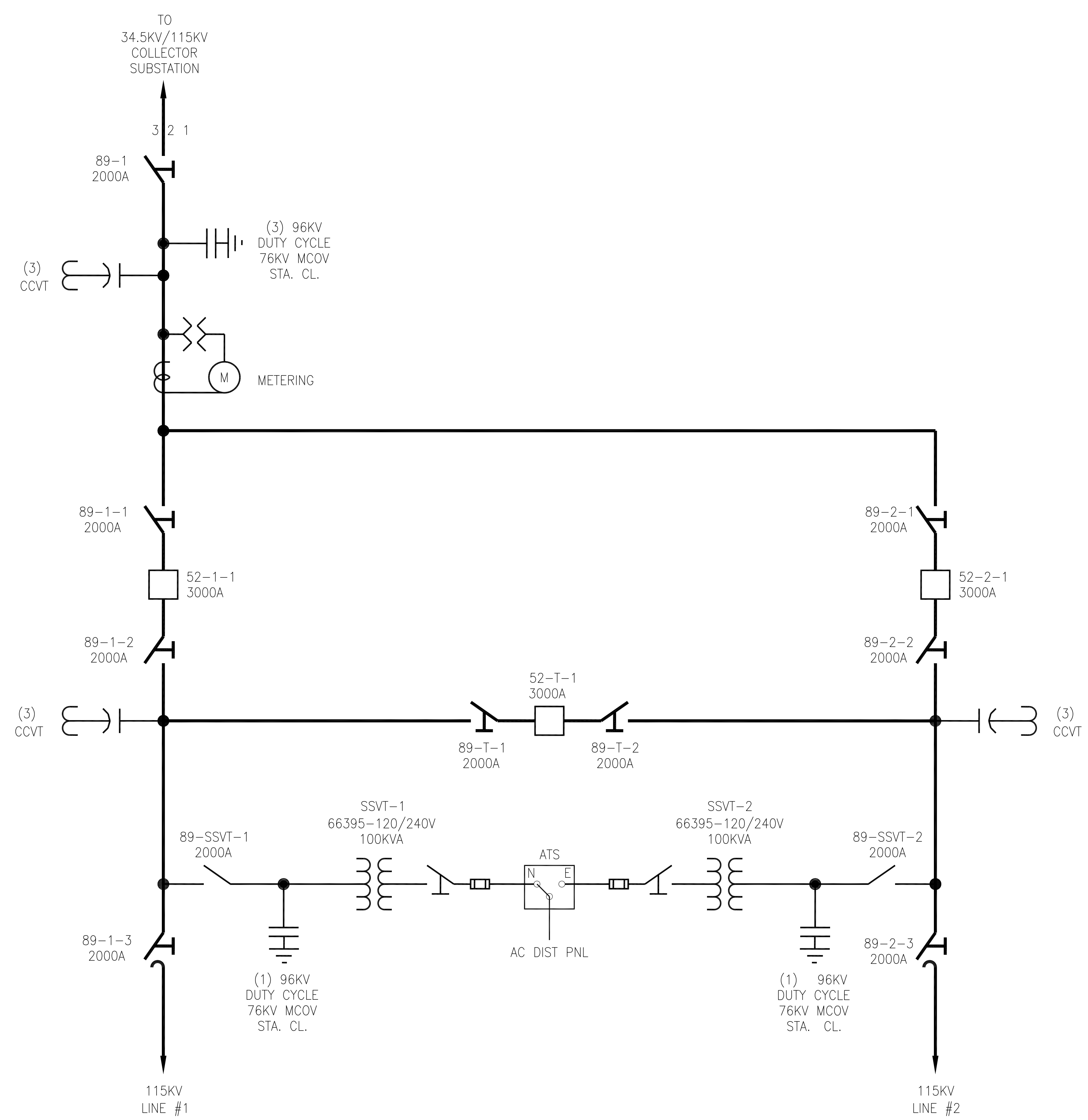
PRELIMINARY
NOT FOR CONSTRUCTION

| | | | | | | | | | | | | |
|--|--|--|--|--|--|--|---|--|--|--------------------------|--|--|
| TRC 249 Western Avenue Augusta, ME 04330 | | | | | | | PROJECT NO: 327851 | | | PRELIMINARY | | |
| REFERENCES | | | | | | | COLLECTOR SUBSTATION CONTROL HOUSE ELECTRICAL LAYOUT PLAN | | | HIGH RIVER ENERGY CENTER | | |
| REV | | | | | | | DATE | | | DES | | |
| DESCRIPTION | | | | | | | CHK | | | APP | | |
| A | | | | | | | 06/20/19 | | | AAD | | |
| ISSUED FOR CLIENT REVIEW | | | | | | | DG | | | AKD | | |
| | | | | | | | AKD/TRC APPROVED | | | FLORIDA | | |
| | | | | | | | AKD/TRC CHECKED | | | MONTGOMERY CO., NY | | |
| | | | | | | | AKD/TRC DRAWN | | | DATE | | |
| | | | | | | | AKD/TRC DESIGNED | | | 06/20/19 | | |
| | | | | | | | DATE | | | S-008 | | |
| | | | | | | | SCALE | | | REV. | | |
| | | | | | | | 3/8"=1'-0" | | | A | | |
| | | | | | | | REVIEW 2 | | | SCALE | | |
| | | | | | | | REVIEW 1 | | | SCALE | | |



LEGEND OF SYMBOLS:

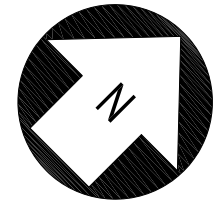
| | |
|--|---|
| | POWER CKT. BKR., SF6 |
| | SURGE ARRESTER |
| | DISCONNECT SWITCH, GROUP OPERATED |
| | DISCONNECT SWITCH, GROUP OPERATED W/ ARCING HORNS |
| | COUPLING CAPACITOR VOLTAGE TRANSFORMER |
| | FUSED SWITCH |
| | STATION SERVICE VOLTAGE TRANSFORMER |
| | REVENUE METERING |



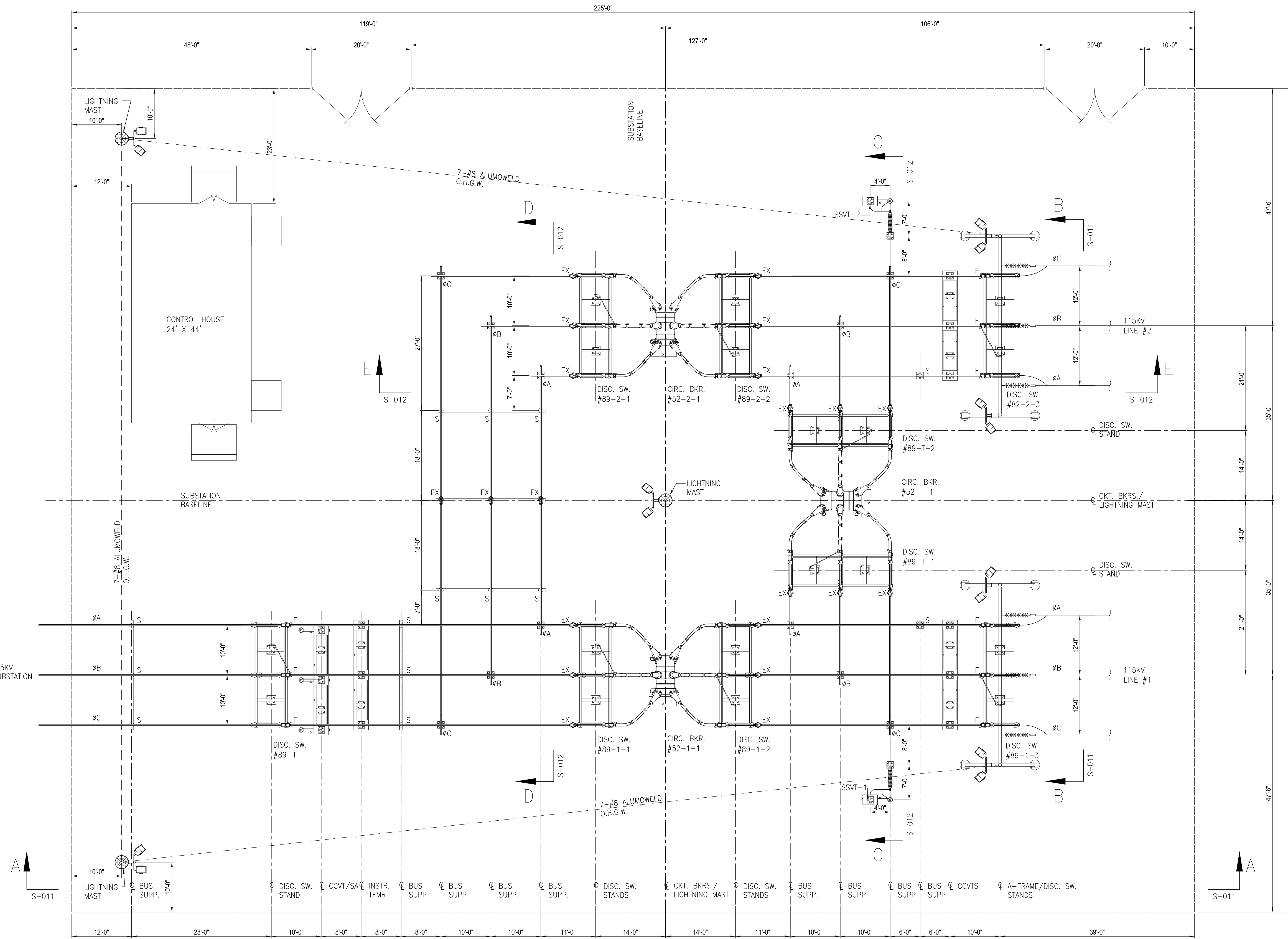
- REFERENCE DRAWINGS:
- S-010 - SWITCHYARD SUBSTATION GENERAL ARRANGEMENT PLAN
 - S-011 - SWITCHYARD SUBSTATION SECTIONS A-A, B-B
 - S-012 - SWITCHYARD SUBSTATION SECTIONS C-C, D-D, E-E
 - S-013 - SWITCHYARD SUBSTATION YARD LIGHTING PLAN
 - S-014 - SWITCHYARD SUBSTATION FENCE & GROUNDING PLAN
 - S-015 - SWITCHYARD SUBSTATION FENCE & GROUNDING DETAILS
 - S-016 - SWITCHYARD SUBSTATION CONTROL HOUSE ELECTRICAL LAYOUT PLAN

PRELIMINARY
NOT FOR CONSTRUCTION

| | | | | | | | | | | | | | | |
|--|--------------------------|----------|-----|-----|-----|---------------------|------------------|--|---------------------|-------|--|--|--|--|
| TRC 249 Western Avenue Augusta, ME 04330 | | | | | | PROJECT NO: 327851 | | | AAD/TRC DESIGNED | | PRELIMINARY SWITCHYARD SUBSTATION POWER ONE-LINE DIAGRAM HIGH RIVER ENERGY CENTER HIGH RIVER ENERGY CENTER, LLC FLORIDA MONTGOMERY CO., NY | | | |
| REV | DESCRIPTION | DATE | DES | CHK | APP | AAD/TRC DRAWN | | | | | | | | |
| | | | | | | DG/TRC CHECKED | | | | | | | | |
| | | | | | | AKD/TRC APPROVED | | | | | | | | |
| | | | | | | REVIEW 1 | 06/20/19 DATE | | | S-009 | REV. A | | | |
| A | ISSUED FOR CLIENT REVIEW | 06/20/19 | AAD | DG | AKD | REVIEW 2 | NONE SCALE | | | | | | | |



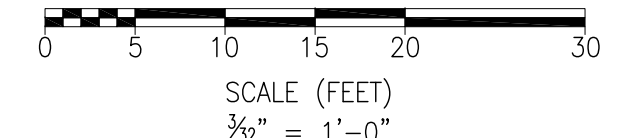
ADJUST DIRECTION OF NORTH ARROW AS NEEDED



PLAN VIEW

- NOTES:**
- BUS SUPPORTS PROVIDED AND INSTALLED AS SHOWN FOR THE FOLLOWING TYPES:
 F-FIXED BUS SUPPORT
 S-SLIP BUS SUPPORT
 EX-EXPANSION BUS SUPPORT
 - CLEARANCES FOR ALL BUS & CONDUCTOR TO BE PER VALUES PUBLISHED IN ANSI C37.32 TABLE 5:
 115KV-PHASE TO PHASE 7'-0" (CENTERLINE-CENTERLINE)
 -PHASE TO GROUND 3'-11" (METAL TO METAL)
 - WIRE CONDUCTOR MINIMUM BEND RADIUS TO BE INSTALLED NO LESS THAN:
 1272KCM-20 INCHES
 336KCM-10 INCHES
 4/0 COPPER-8 INCHES
 2/0 COPPER-6 INCHES
 1/0 AAC-5.5 INCHES
 #2 COPPER-4 INCHES

- REFERENCE DRAWINGS:**
- S-009 - SWITCHYARD SUBSTATION POWER ONE-LINE DIAGRAM
 - S-011 - SWITCHYARD SUBSTATION SECTIONS A-A, B-B
 - S-012 - SWITCHYARD SUBSTATION SECTIONS C-C, D-D, E-E
 - S-013 - SWITCHYARD SUBSTATION YARD LIGHTING PLAN
 - S-014 - SWITCHYARD SUBSTATION FENCE & GROUNDING PLAN
 - S-015 - SWITCHYARD SUBSTATION FENCE & GROUNDING DETAILS
 - S-016 - SWITCHYARD SUBSTATION CONTROL HOUSE ELECTRICAL LAYOUT PLAN



PRELIMINARY
NOT FOR CONSTRUCTION

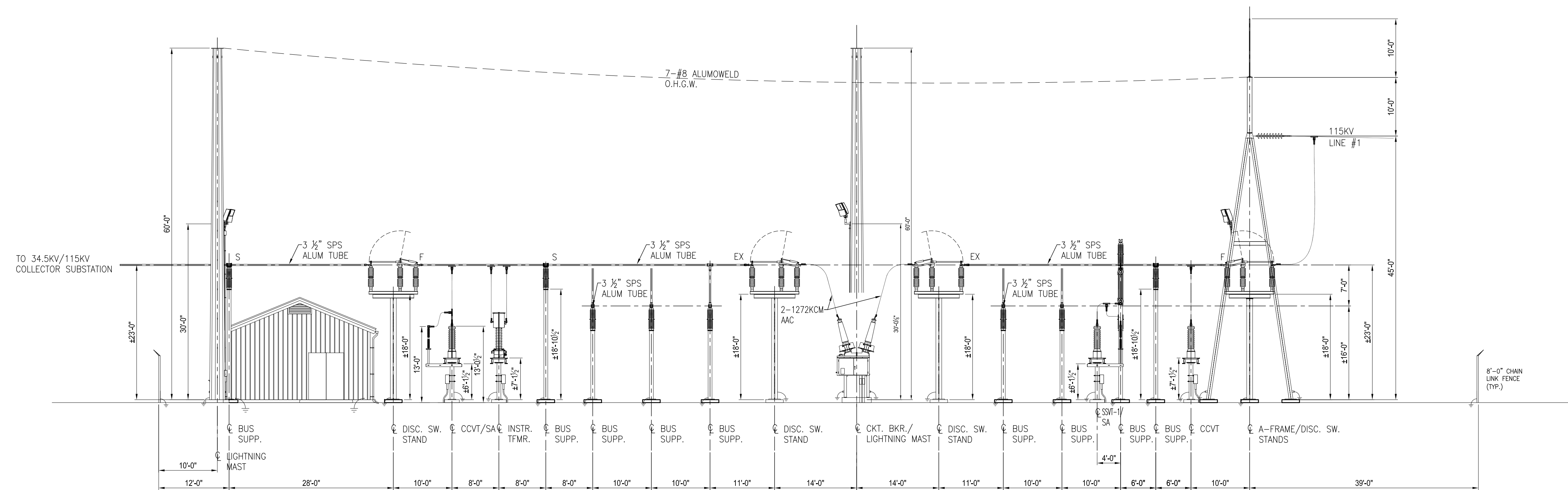
| | | | | | | | |
|------------|--|-----|--------------------------|----------|-----|-----|-----|
| REFERENCES | | REV | DESCRIPTION | DATE | DES | CHK | APP |
| | | A | ISSUED FOR CLIENT REVIEW | 06/20/19 | AAD | DG | AKD |



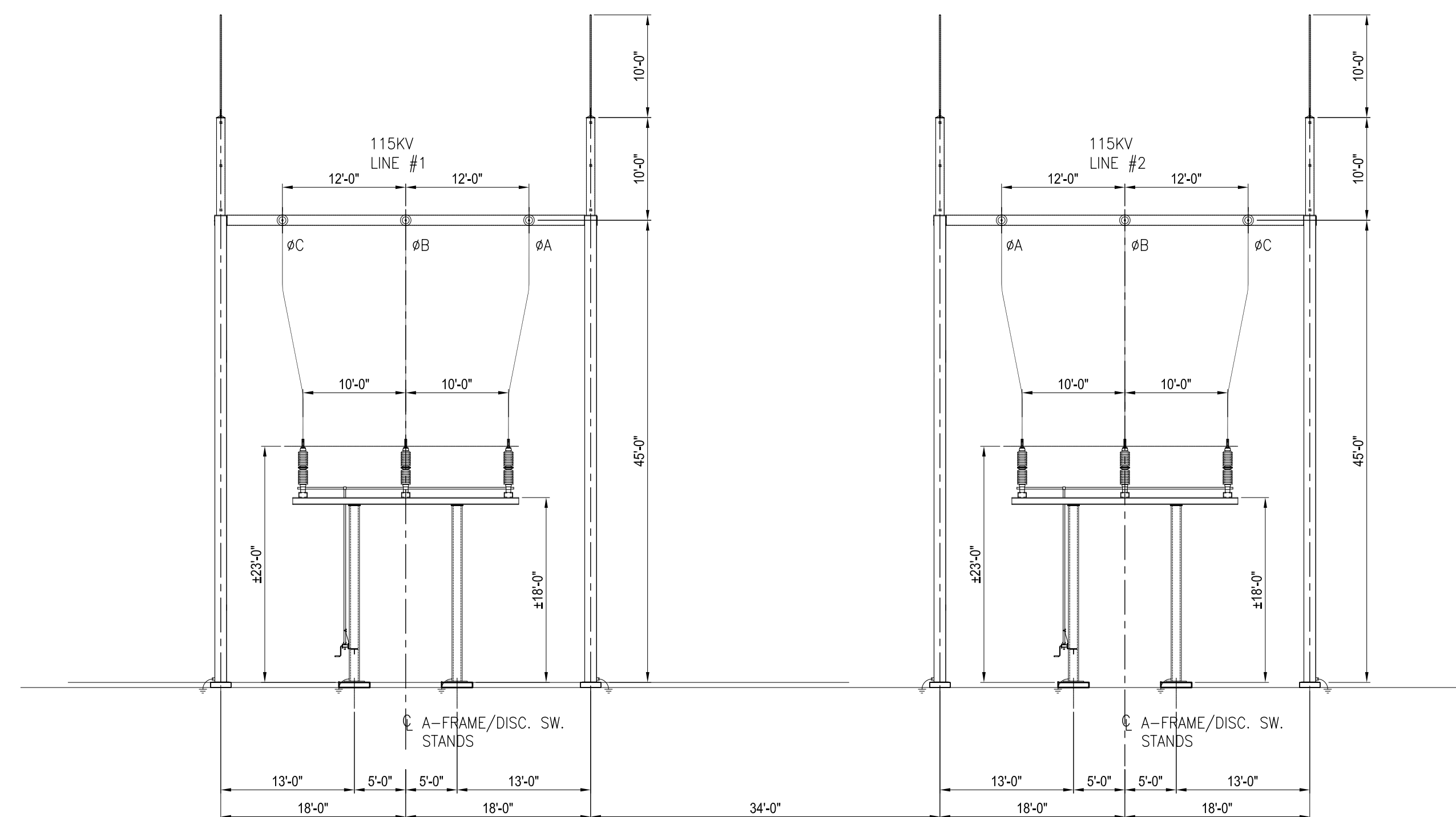
PROJECT NO: 327851

| | | | |
|---------------------|--|--------------------|-------|
| AAD/TRC DESIGNED | PRELIMINARY | | |
| AAD/TRC DRAWN | SWITCHYARD SUBSTATION GENERAL ARRANGEMENT PLAN | | |
| DG/TRC CHECKED | HIGH RIVER ENERGY CENTER | | |
| AKD/TRC APPROVED | HIGH RIVER ENERGY CENTER, LLC | | |
| | FLORIDA | MONTGOMERY CO., NY | |
| REVIEW 1 | 06/20/19 DATE | | S-010 |
| REVIEW 2 | 3/32"=1'-0" SCALE | | |

REV. A



SECTION A-A



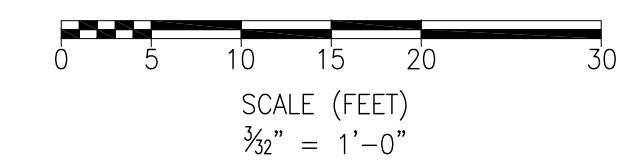
SECTION B-B

NOTES:

- BUS SUPPORTS PROVIDED AND INSTALLED AS SHOWN FOR THE FOLLOWING TYPES:
 F-FIXED BUS SUPPORT
 S-SLIP BUS SUPPORT
 EX-EXPANSION BUS SUPPORT
- CLEARANCES FOR ALL BUS & CONDUCTOR TO BE PER VALUES PUBLISHED IN ANSI C37.32 TABLE 5:
 115KV-PHASE TO PHASE 7'-0" (CENTERLINE-CENTERLINE)
 -PHASE TO GROUND 3'-11" (METAL TO METAL)
- WIRE CONDUCTOR MINIMUM BEND RADIUS TO BE INSTALLED NO LESS THAN:
 1272KCM-20 INCHES
 336KCM-10 INCHES
 4/0 COPPER-8 INCHES
 2/0 COPPER-6 INCHES
 1/0 AAC-5.5 INCHES
 #2 COPPER-4 INCHES

REFERENCE DRAWINGS:

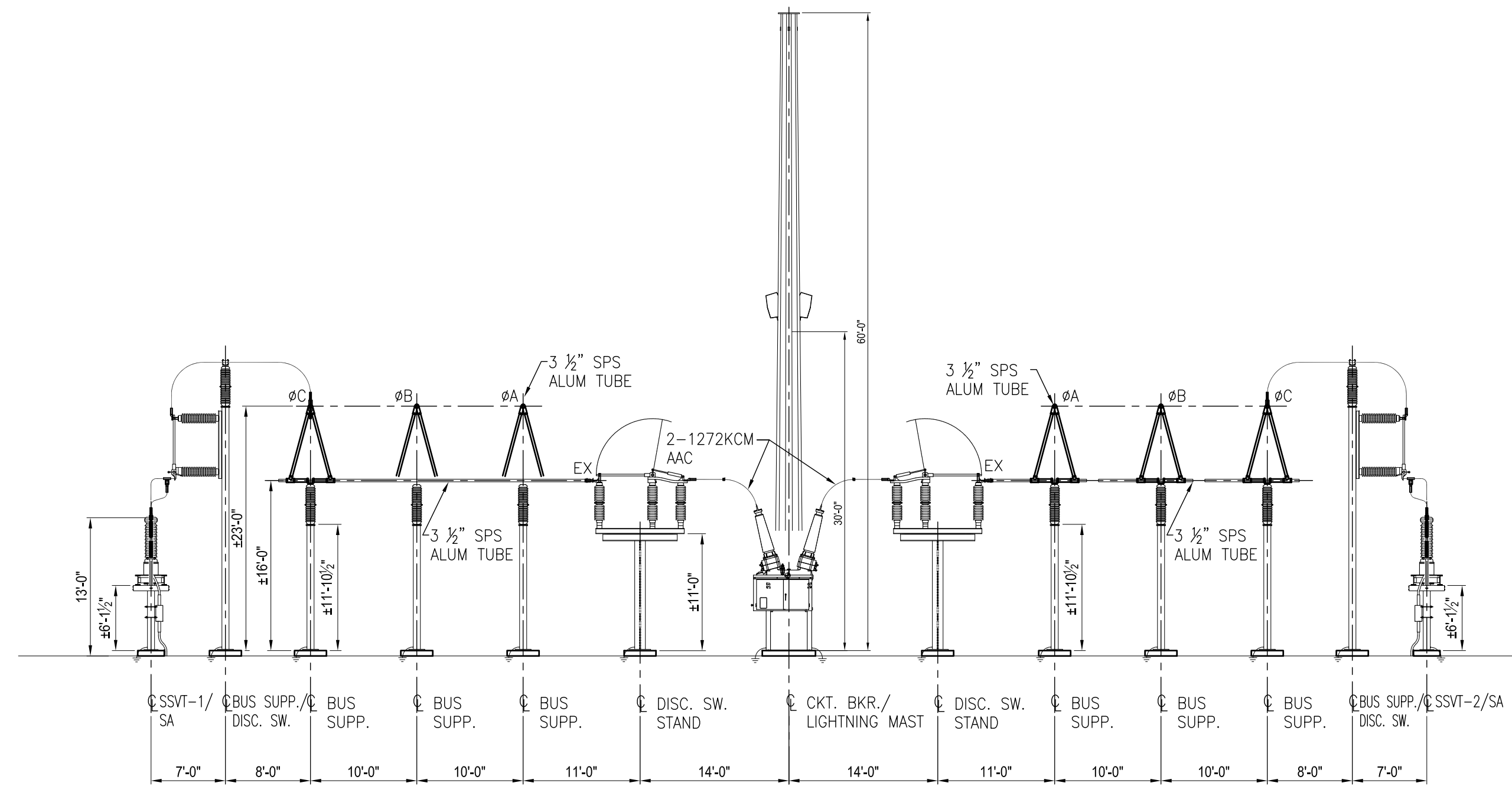
- S-009 - SWITCHYARD SUBSTATION POWER ONE-LINE DIAGRAM
- S-010 - SWITCHYARD SUBSTATION GENERAL ARRANGEMENT PLAN
- S-012 - SWITCHYARD SUBSTATION SECTIONS C-C, D-D, E-E
- S-013 - SWITCHYARD SUBSTATION YARD LIGHTING PLAN
- S-014 - SWITCHYARD SUBSTATION FENCE & GROUNDING PLAN
- S-015 - SWITCHYARD SUBSTATION FENCE & GROUNDING DETAILS
- S-016 - SWITCHYARD SUBSTATION CONTROL HOUSE ELECTRICAL LAYOUT PLAN



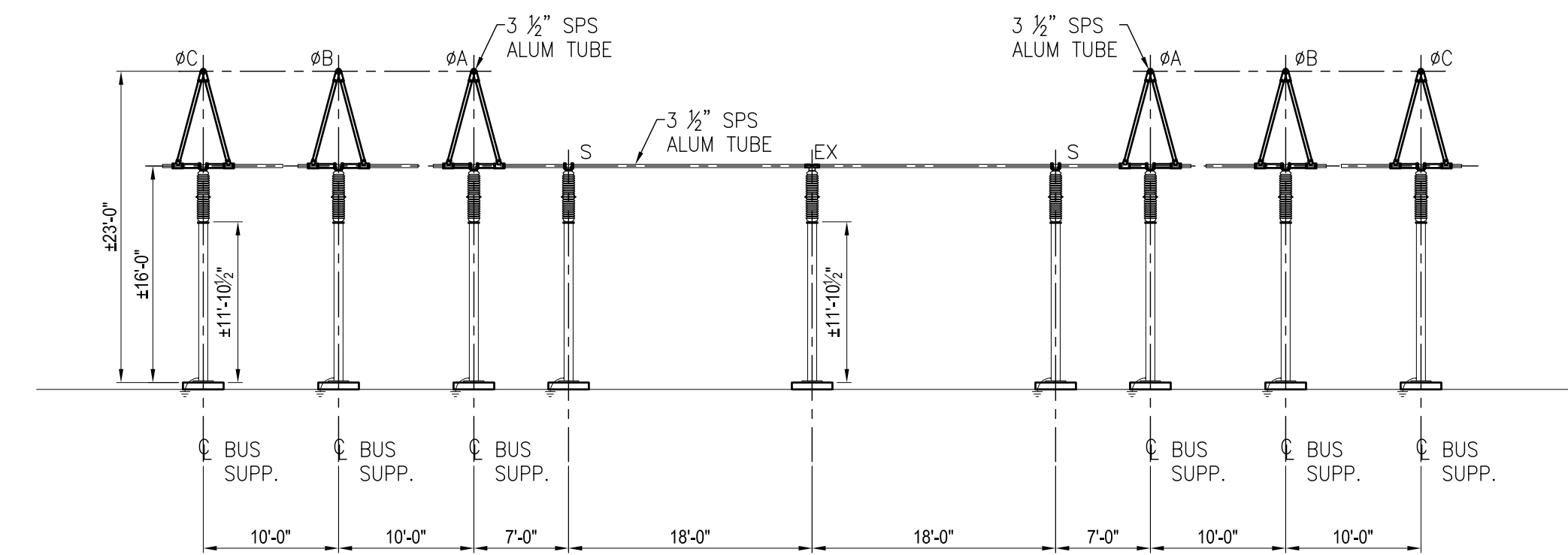
PRELIMINARY
NOT FOR CONSTRUCTION

| | | | | | | |
|------------|--|---|-------------|------|-----|-----|
| REFERENCES | | 249 Western Avenue Augusta, ME 04330 PROJECT NO: 327851 | | | | |
| | | REV | DESCRIPTION | DATE | DES | CHK |
| A | | ISSUED FOR CLIENT REVIEW | 06/20/19 | AAD | DG | AKD |

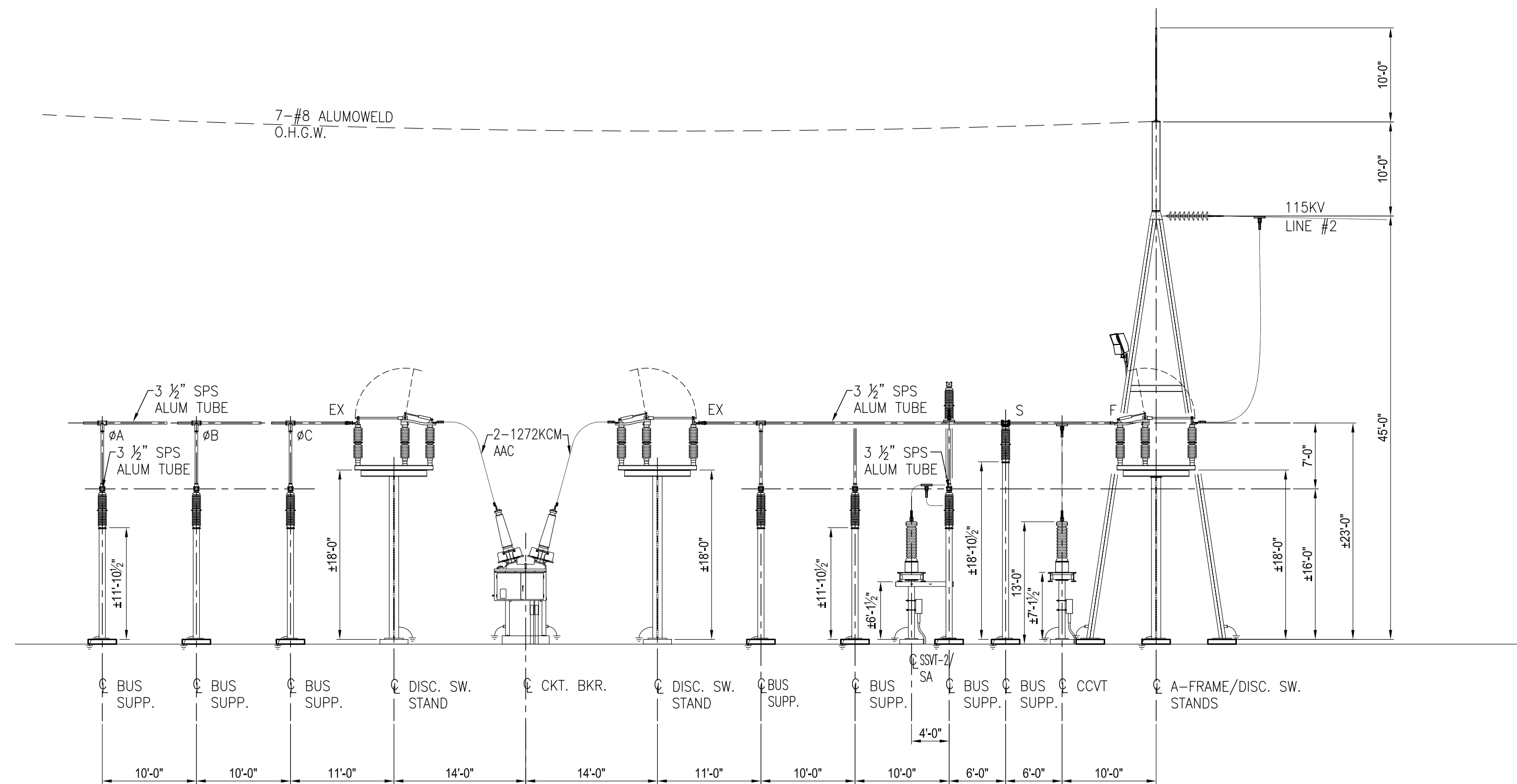
| | | | | |
|---|--|--|-------|-----------|
| AAD/TRC DESIGNED AAD/TRC DRAWN DG/TRC CHECKED AKD/TRC APPROVED | | PRELIMINARY SWITCHYARD SUBSTATION SECTIONS A-A, B-B HIGH RIVER ENERGY CENTER HIGH RIVER ENERGY CENTER, LLC FLORIDA MONTGOMERY CO., NY | | REV. A |
| REVIEW 1 REVIEW 2 | 06/20/19 DATE 3/32"=1'-0" SCALE | | S-011 | REV. A |



SECTION C-C



SECTION D-D



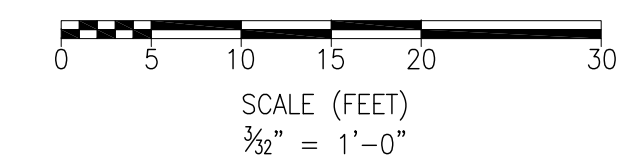
SECTION E-E

NOTES:

- BUS SUPPORTS PROVIDED AND INSTALLED AS SHOWN FOR THE FOLLOWING TYPES:
 F-FIXED BUS SUPPORT
 S-SLIP BUS SUPPORT
 EX-EXPANSION BUS SUPPORT
- CLEARANCES FOR ALL BUS & CONDUCTOR TO BE PER VALUES PUBLISHED IN ANSI C37.32 TABLE 5:
 115KV-PHASE TO PHASE 7'-0" (CENTERLINE-CENTERLINE)
 -PHASE TO GROUND 3'-11" (METAL TO METAL)
- WIRE CONDUCTOR MINIMUM BEND RADIUS TO BE INSTALLED NO LESS THAN:
 1272KCM-20 INCHES
 336KCM-10 INCHES
 4/0 COPPER-8 INCHES
 2/0 COPPER-6 INCHES
 1/0 AAC-5.5 INCHES
 #2 COPPER-4 INCHES

REFERENCE DRAWINGS:

- S-009 - SWITCHYARD SUBSTATION POWER ONE-LINE DIAGRAM
- S-010 - SWITCHYARD SUBSTATION GENERAL ARRANGEMENT PLAN
- S-011 - SWITCHYARD SUBSTATION SECTIONS A-A, B-B
- S-013 - SWITCHYARD SUBSTATION YARD LIGHTING PLAN
- S-014 - SWITCHYARD SUBSTATION FENCE & GROUNDING PLAN
- S-015 - SWITCHYARD SUBSTATION FENCE & GROUNDING DETAILS
- S-016 - SWITCHYARD SUBSTATION CONTROL HOUSE ELECTRICAL LAYOUT PLAN



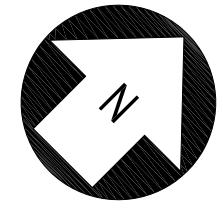
PRELIMINARY
NOT FOR CONSTRUCTION

TRC 249 Western Avenue
Augusta, ME 04330

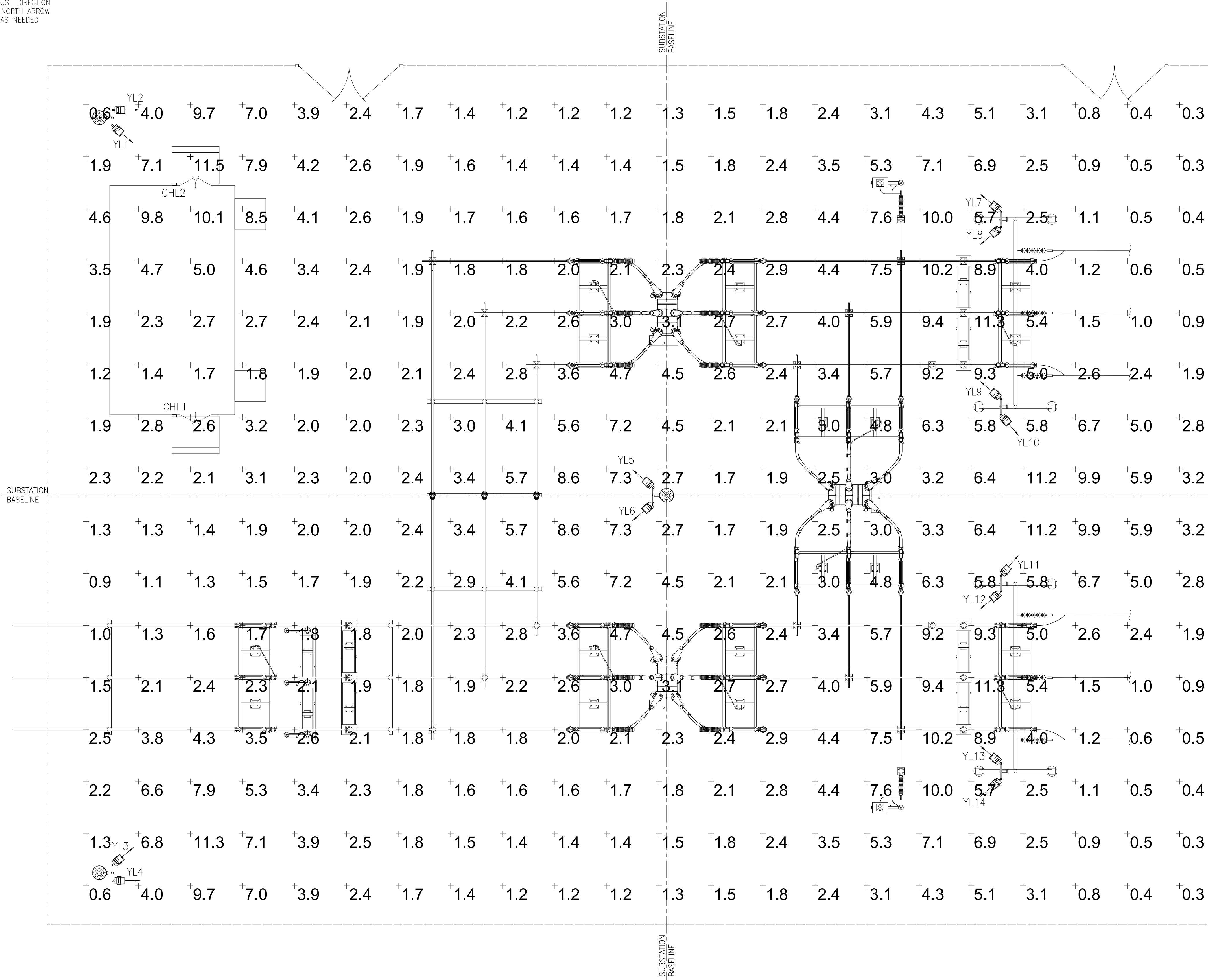
PROJECT NO: 327851

| REV | DESCRIPTION | DATE | DES | CHK | APP |
|-----|--------------------------|----------|-----|-----|-----|
| A | ISSUED FOR CLIENT REVIEW | 06/20/19 | AAD | DG | AKD |

| | | | | |
|---|--|--|--|--------------------|
| AAD/TRC DESIGNED AAD/TRC DRAWN DG/TRC CHECKED AKD/TRC APPROVED | PRELIMINARY SWITCHYARD SUBSTATION SECTIONS C-C, D-D, E-E HIGH RIVER ENERGY CENTER HIGH RIVER ENERGY CENTER, LLC FLORIDA MONTGOMERY CO., NY | 06/20/19 DATE 3/32"=1'-0" SCALE | | S-012 REV. A |
|---|--|--|--|--------------------|

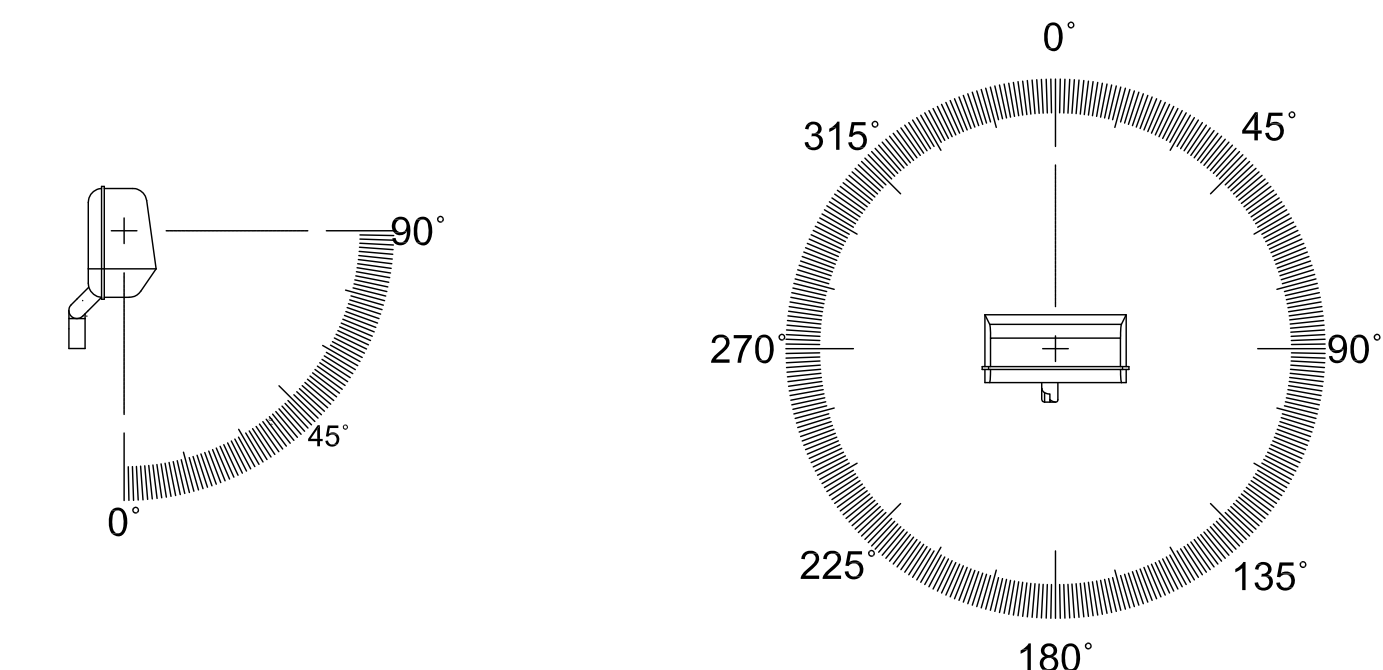


ADJUST DIRECTION OF NORTH ARROW AS NEEDED



| YARD LIGHTING SCHEDULE | | | | | | |
|------------------------|-----------|---------|-----------------|-------------|----------------|--------------|
| LIGHT NO. | TYPE | WATTAGE | MOUNTING HEIGHT | ORIENTATION | TILT (DEGREES) | PANEL/CCT. # |
| YL1 | TFLU 250S | 250W | 30FT | 130 | 60 | --- |
| YL2 | TFLU 250S | 250W | 30FT | 90 | 60 | --- |
| YL3 | TFLU 250S | 250W | 30FT | 60 | 60 | --- |
| YL4 | TFLU 250S | 250W | 30FT | 90 | 60 | --- |
| YL5 | TFLU 250S | 250W | 30FT | 310 | 60 | --- |
| YL6 | TFLU 250S | 250W | 30FT | 230 | 60 | --- |
| YL7 | TFLU 250S | 250W | 30FT | 310 | 60 | --- |
| YL8 | TFLU 250S | 250W | 30FT | 230 | 60 | --- |
| YL9 | TFLU 250S | 250W | 30FT | 310 | 60 | --- |
| YL10 | TFLU 250S | 250W | 30FT | 140 | 60 | --- |
| YL11 | TFLU 250S | 250W | 30FT | 40 | 60 | --- |
| YL12 | TFLU 250S | 250W | 30FT | 230 | 60 | --- |
| YL13 | TFLU 250S | 250W | 30FT | 310 | 60 | --- |
| YL14 | TFLU 250S | 250W | 30FT | 230 | 60 | --- |
| CHL1 | TWA 70S | 70W | 10FT | --- | --- | --- |
| CHL2 | TWA 70S | 70W | 10FT | --- | --- | --- |

| STATISTICS -- OVERALL SITE | | | | | | |
|----------------------------|--------|---------|---------|---------|---------|-------------|
| DESCRIPTION | SYMBOL | AVERAGE | MAXIMUM | MINIMUM | MAX/MIN | AVERAGE/MIN |
| SITE | + | 3.5 fc | 11.5 fc | 0.3 fc | 38.3:1 | 11.7:1 |



YARD LIGHT TILT

YARD LIGHT ORIENTATION ANGLE

LEGEND

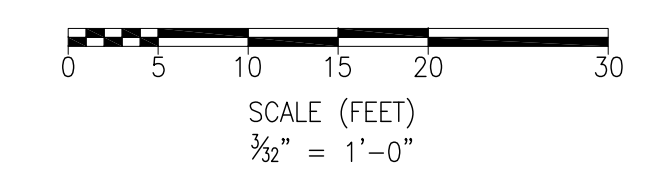
- ⊠ "A" LIGHT FIXTURE, LITHONIA CONTOUR TFLU-250S (WOOD POLE MOUNTED)
- ⊠ "C" LIGHT FIXTURE, LITHONIA CONTOUR TWA-70S (BUILDING MOUNTED)

NOTES:

- ALL YARD FLOOD FIXTURES ARE MOUNTED 30'-0" ABOVE FINISHED GRADE.
- EXTERIOR CONTROL HOUSE FIXTURES ARE MOUNTED 10'-0" ABOVE FINISHED GRADE.
- INCIDENT LIGHT LEVEL POINTS ARE SPACED AT 10' X 10'.
- THE AVERAGE ILLUMINATION IN THE SUBSTATION YARD IS 3.5 FOOTCANDLES.
- YARD LIGHTING CONTROL EQUIPMENT IS DEFINED ON DWG. 327851-XX.
- LIGHTING CALCULATIONS WERE PERFORMED USING VISUAL 2016, VERSION 2.08.
- OVERALL SITE LAYOUT INCLUDES PROPOSED PERIMETER AND PROPOSED WORK LIGHTING.
- PERIMETER LIGHTING CONTROL OPTIONS ARE ON/OFF/AUTO.
- WORK LIGHTING CONTROL OPTIONS ARE ON/OFF.

REFERENCE DRAWINGS:

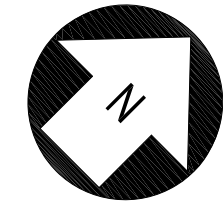
- S-009 - SWITCHYARD SUBSTATION POWER ONE-LINE DIAGRAM
- S-010 - SWITCHYARD SUBSTATION GENERAL ARRANGEMENT PLAN
- S-011 - SWITCHYARD SUBSTATION SECTIONS A-A, B-B
- S-012 - SWITCHYARD SUBSTATION SECTIONS C-C, D-D, E-E
- S-014 - SWITCHYARD SUBSTATION FENCE & GROUNDING PLAN
- S-015 - SWITCHYARD SUBSTATION FENCE & GROUNDING DETAILS
- S-016 - SWITCHYARD SUBSTATION CONTROL HOUSE ELECTRICAL LAYOUT PLAN



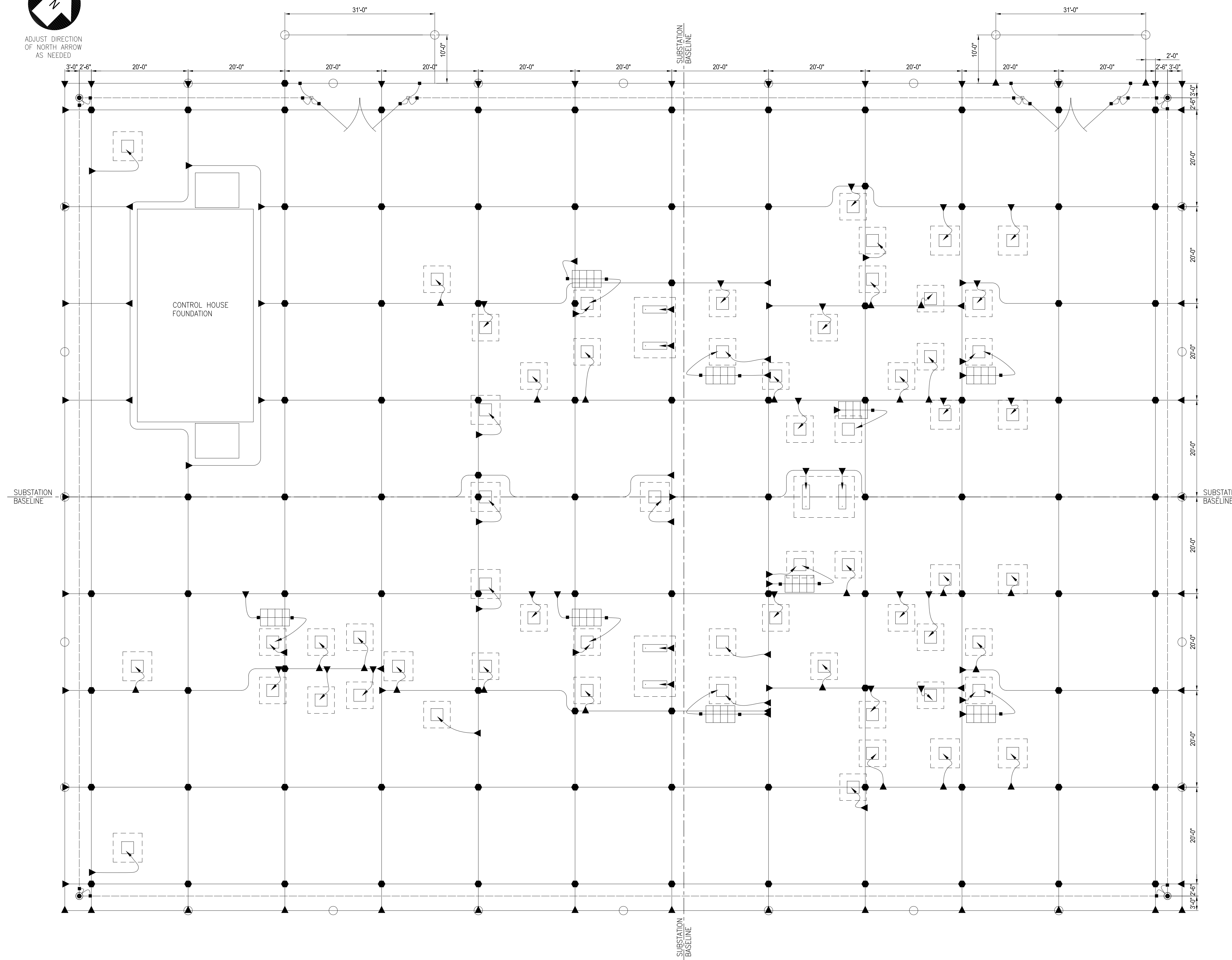
PRELIMINARY
NOT FOR CONSTRUCTION

PLAN VIEW

| | | | | | | | | | | |
|------------|--|---|--|--------------------|--|--|---------------------|--|--|--|
| | | 249 Western Avenue Augusta, ME 04330 | | PROJECT NO: 327851 | | | AAD/TRC DESIGNED | | PRELIMINARY SWITCHYARD SUBSTATION YARD LIGHTING PLAN | |
| REFERENCES | | REV | | DESCRIPTION | | | DATE | | DES | |
| DATE | | DES | | CHK | | | APP | | HIGH RIVER ENERGY CENTER HIGH RIVER ENERGY CENTER, LLC FLORIDA MONTGOMERY CO., NY | |
| DATE | | DES | | CHK | | | APP | | REV. | |
| DATE | | DES | | CHK | | | APP | | A | |
| DATE | | DES | | CHK | | | APP | | S-013 | |
| DATE | | DES | | CHK | | | APP | | SCALE | |
| DATE | | DES | | CHK | | | APP | | | |
| DATE | | DES | | CHK | | | APP | | S-013 | |
| DATE | | DES | | CHK | | | APP | | SCALE | |
| DATE | | DES | | CHK | | | APP | | A | |



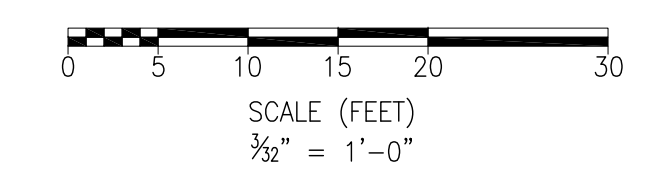
ADJUST DIRECTION OF NORTH ARROW AS NEEDED



| LEGEND OF SYMBOLS: | | |
|--------------------|---|---------------|
| SYMBOL | DESCRIPTION | MATERIAL MARK |
| | 8" PERIMETER FENCE | G01 |
| | GROUND CLAMP, GALV. PIPE TO CABLE (FOR LINE POST) | G04 |
| | GROUND CLAMP, GALV. PIPE TO CABLE (FOR GATE POST) | G05 |
| | GROUND CLAMP, GALV. PIPE TO CABLE (FOR INTERMEDIATE POST) | G06 |
| | SPLIT BOLT CONNECTOR | G07 |
| | 2/0 COPPER GROUND STRAND SOFT DRAWN | G08 |
| | 4/0 COPPER GROUND WIRE 19 STRAND SOFT DRAWN | G09 |
| | 4/0 COPPER WIRE PIGTAIL | G09 |
| | GROUND CLAMP, GALV. PIPE TO CABLE | G10 |
| | GROUND CLAMP, GALV. PIPE TO CABLE (FOR GATE FRAME) | G11 |
| | CONNECTOR, GROUND, #2/0 TO GALV. PIPE | G12 |
| | 4/0 TO 4/0 COPPER WIRE CROSS CONNECTION | G13 |
| | 4/0 TO 4/0 COPPER WIRE TEE CONNECTION | G13 |
| | 4/0 TO 1/0 COPPER WIRE TEE CONNECTION | G15 |
| | BRAID, 1 3/8" X 18", TINNED COPPER, FERRULE ENDS, | G16 |
| | 4' X 6' COPPER WIRE SWITCH MAT | G17 |
| | GROUND ROD LOCATION | G20 |
| | FENCE POST | TBD |

- NOTES:**
1. PERIMETER GROUND CONDUCTOR TO BE A CONTINUOUS LOOP.
 2. THE GROUND GRID SHALL BE 4/0 COPPERWELD AND BURIED AT A MINIMUM DEPTH OF 2'-0" BELOW GRADE.
 3. TAPS FROM MAIN GRID SHALL BE AT LOCATIONS INDICATED TO GROUND STRUCTURE COLUMNS, EQUIPMENT, ETC.
 4. PROVIDE TAPS FOR FENCE GROUND AT EACH GATE POST, CORNER POST AND FOR EVERY THIRD OR FOURTH LINE POST.
 5. ALL TAPS SHALL EXTEND AT LEAST 6'-0" ABOVE FINISHED GRADE (AFG), UNLESS OTHERWISE NOTED.

- REFERENCE DRAWINGS:**
- S-009 - SWITCHYARD SUBSTATION POWER ONE-LINE DIAGRAM
 - S-010 - SWITCHYARD SUBSTATION GENERAL ARRANGEMENT PLAN
 - S-011 - SWITCHYARD SUBSTATION SECTIONS A-A, B-B
 - S-012 - SWITCHYARD SUBSTATION SECTIONS C-C, D-D, E-E
 - S-013 - SWITCHYARD SUBSTATION YARD LIGHTING PLAN
 - S-015 - SWITCHYARD SUBSTATION FENCE & GROUNDING DETAILS
 - S-016 - SWITCHYARD SUBSTATION CONTROL HOUSE ELECTRICAL LAYOUT PLAN

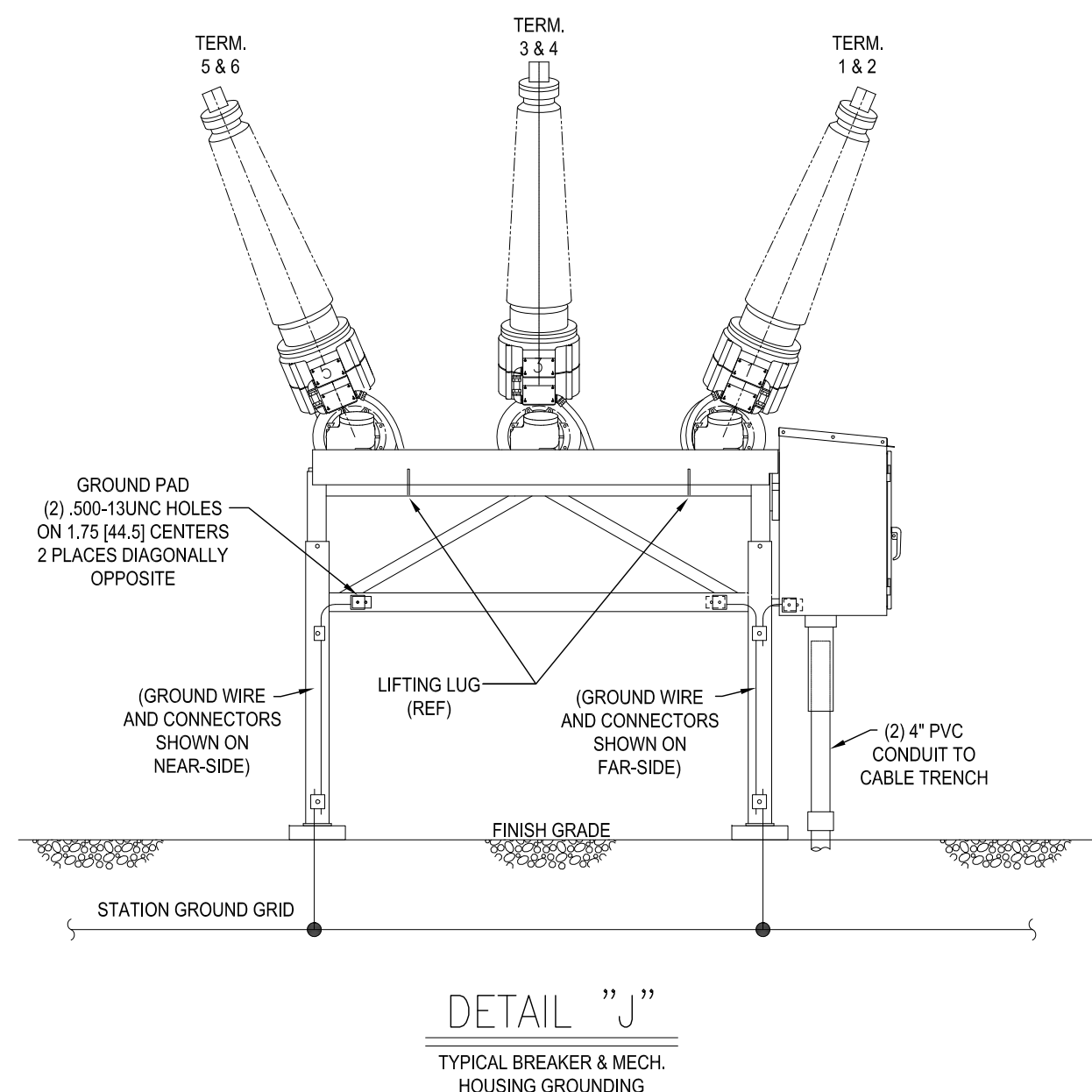
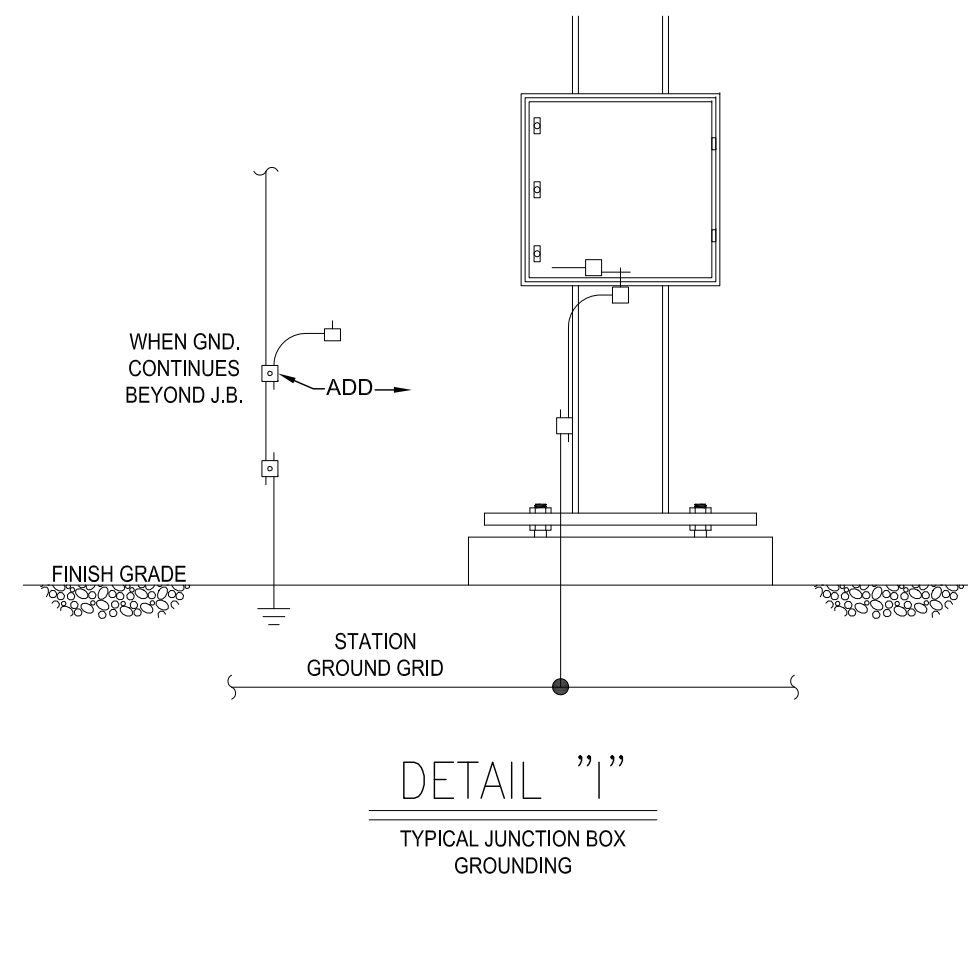
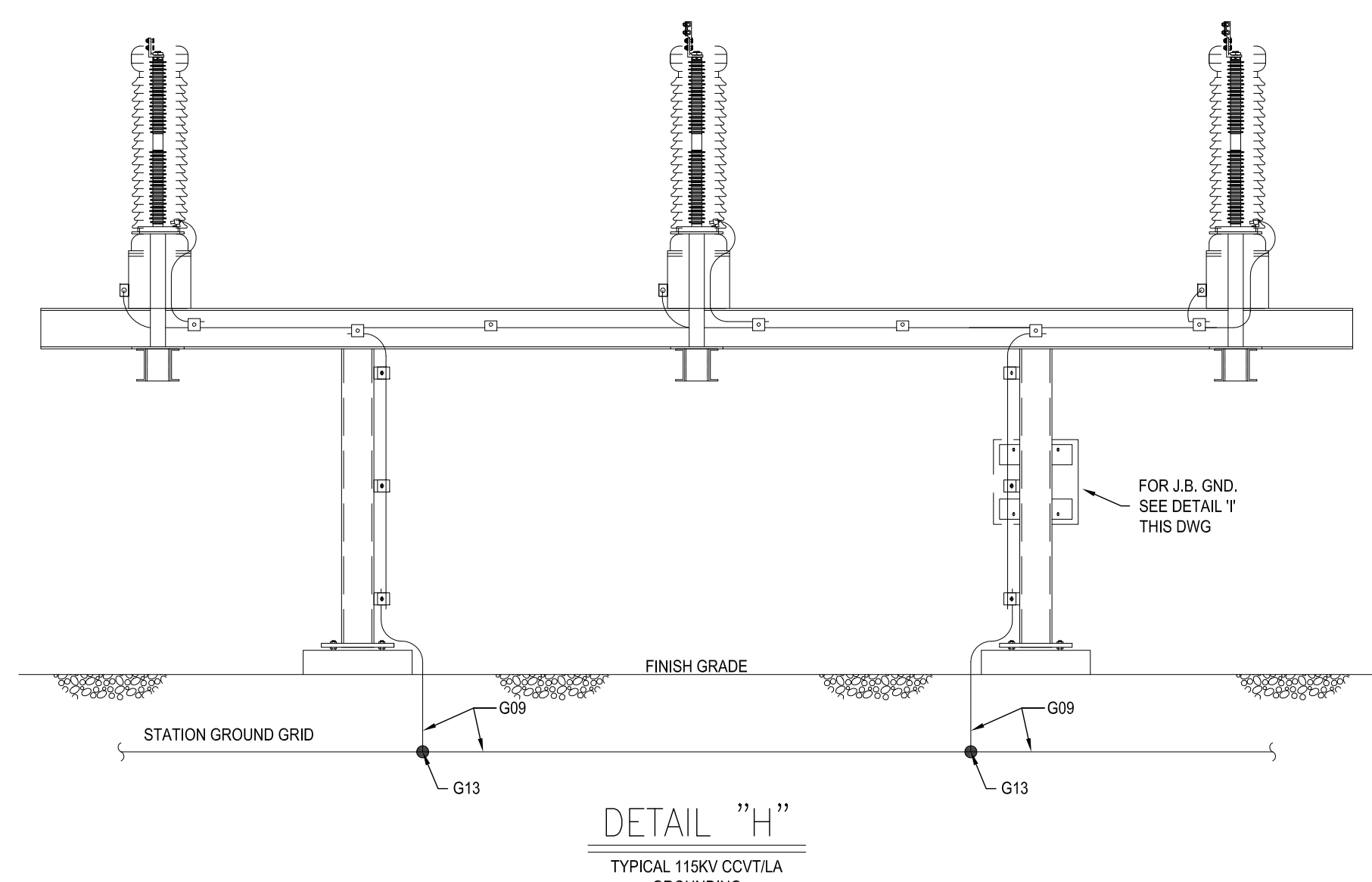
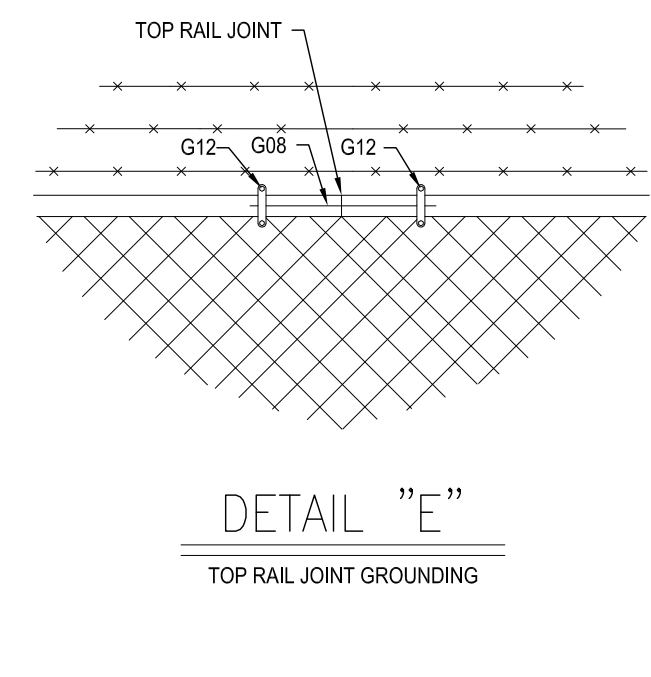
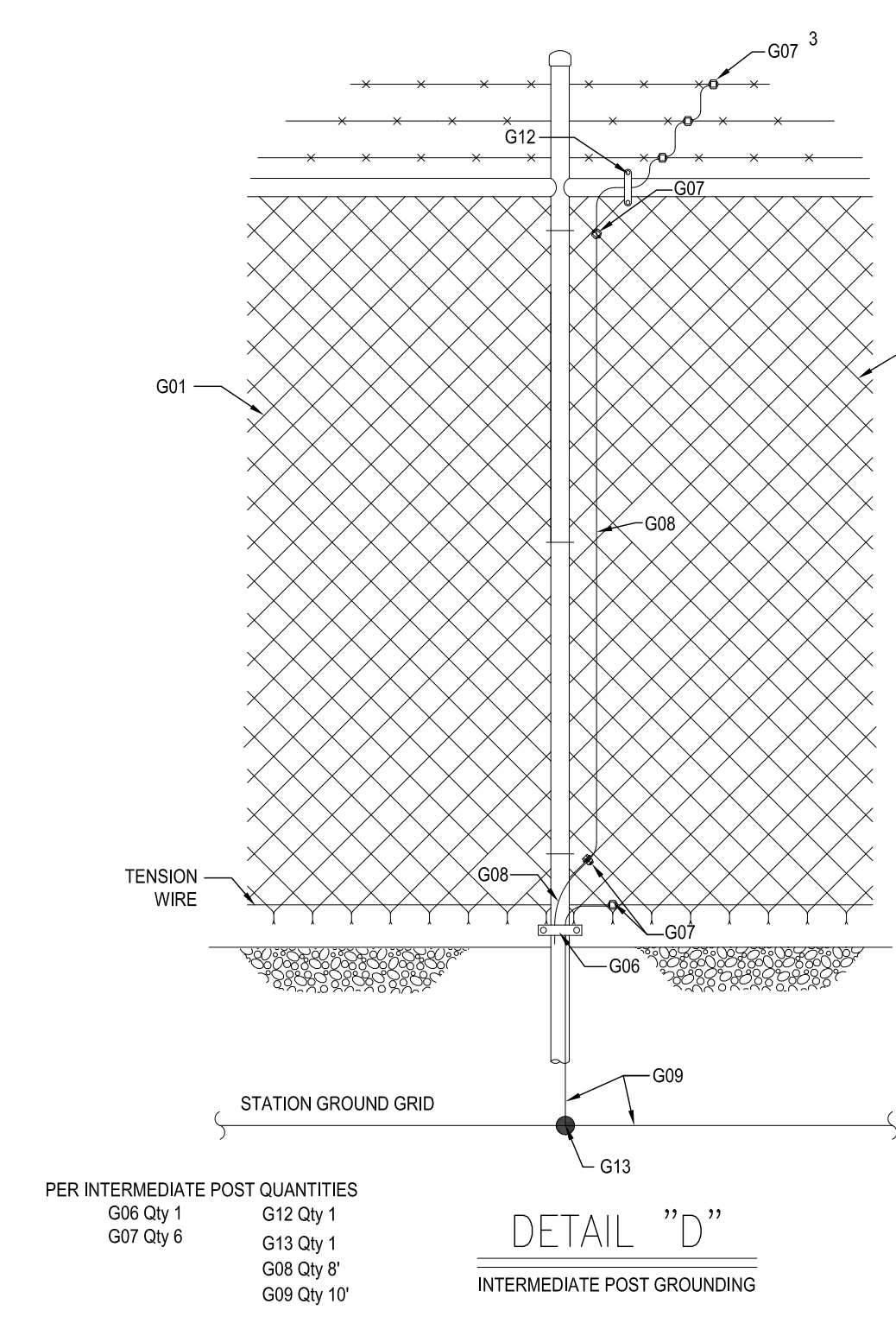
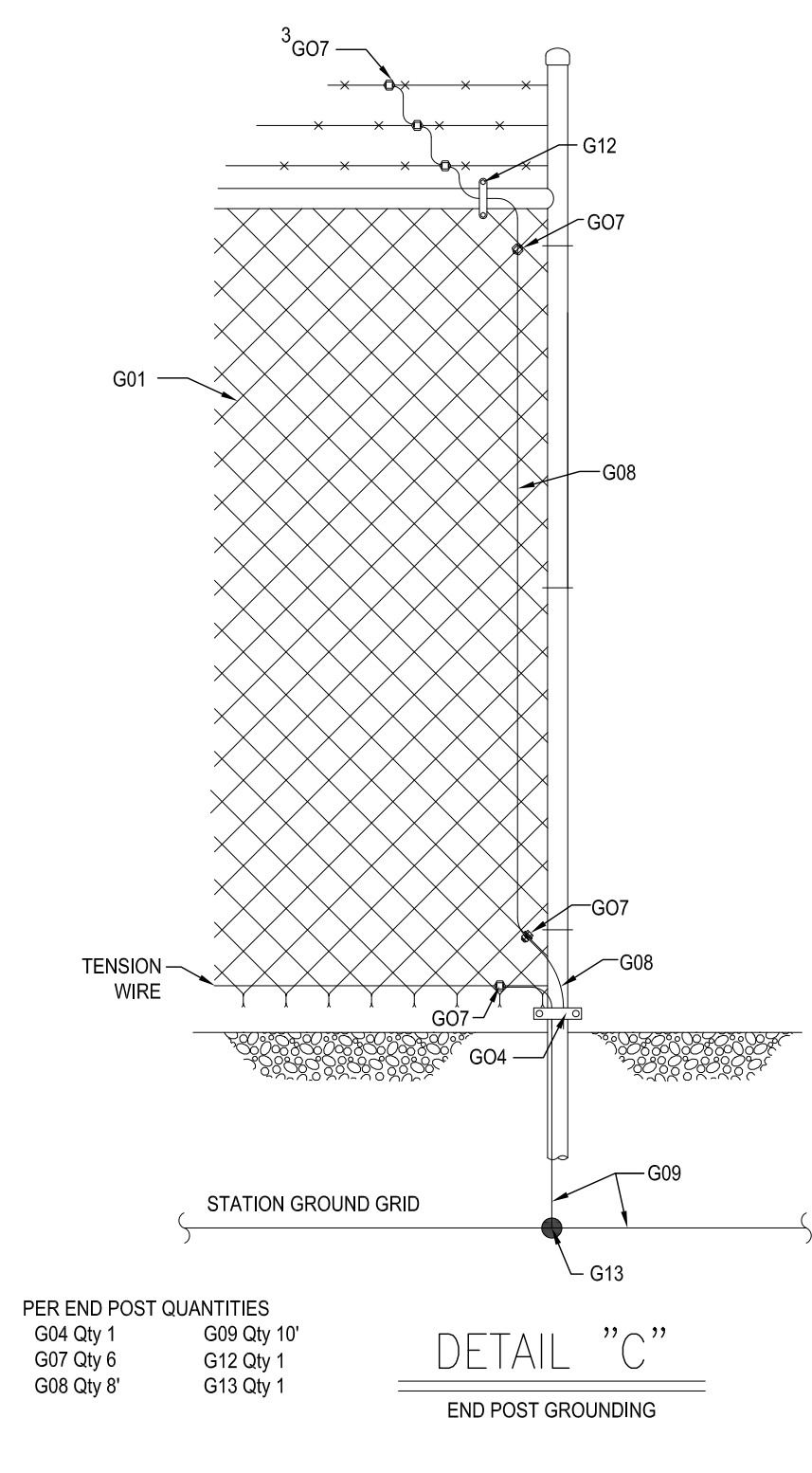
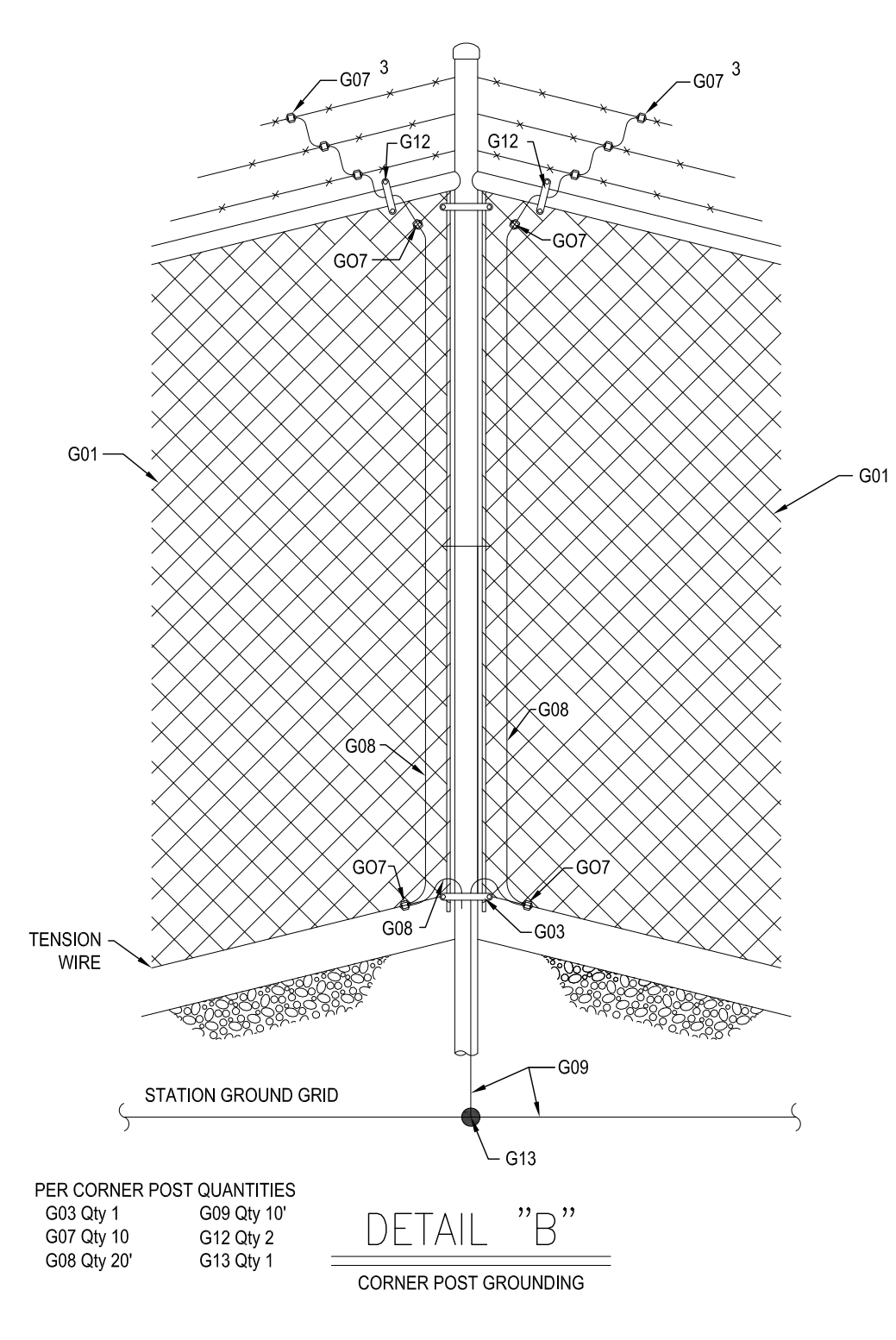
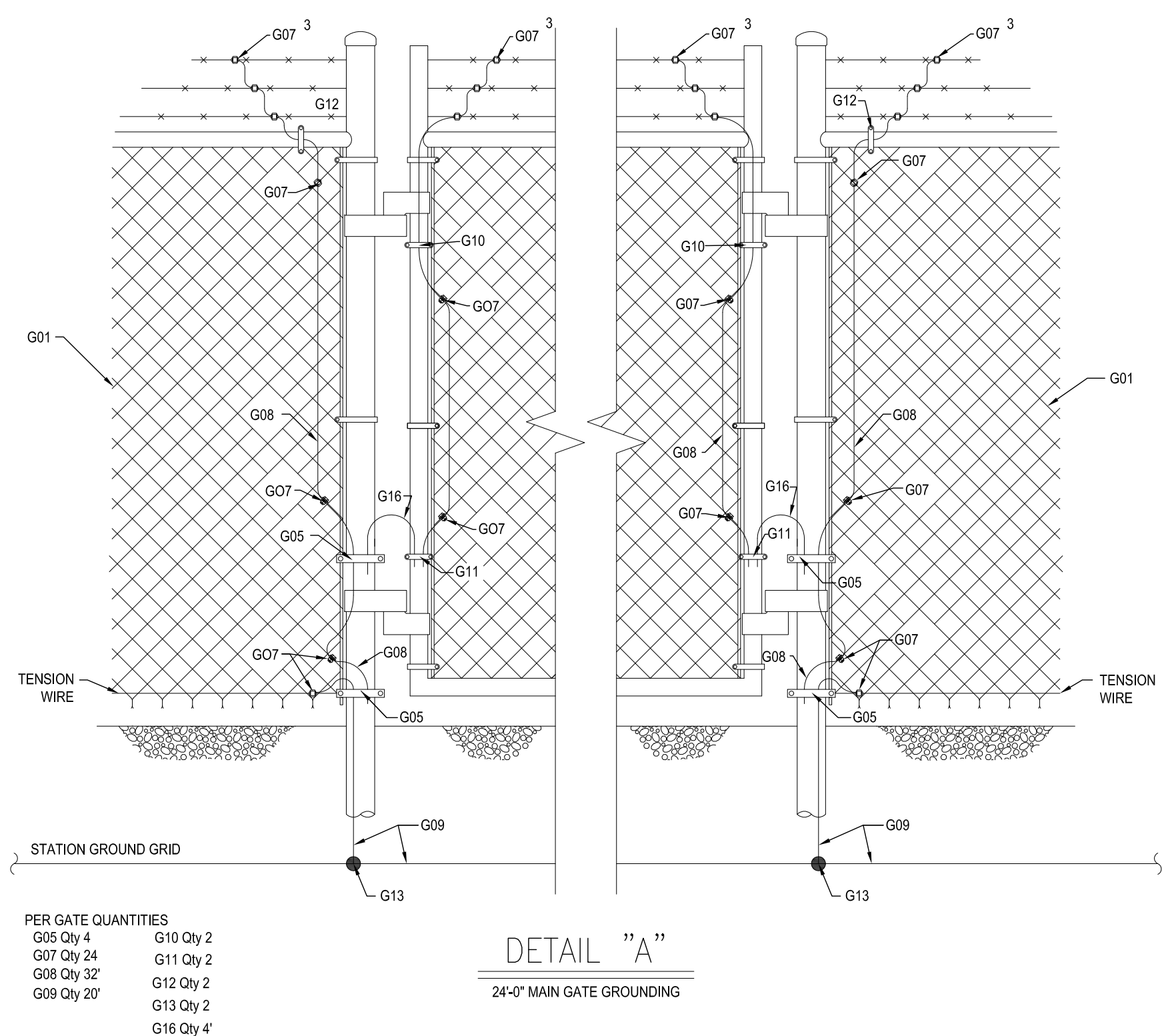


PRELIMINARY
NOT FOR CONSTRUCTION

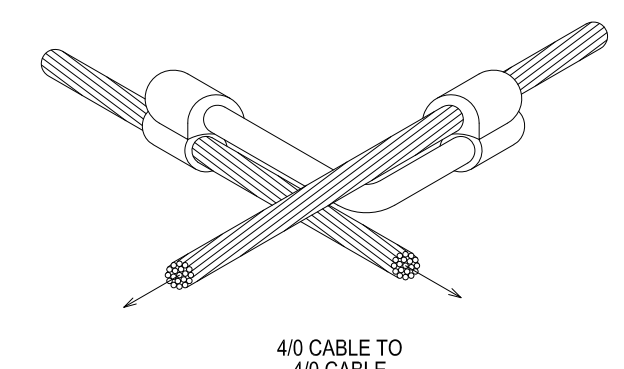
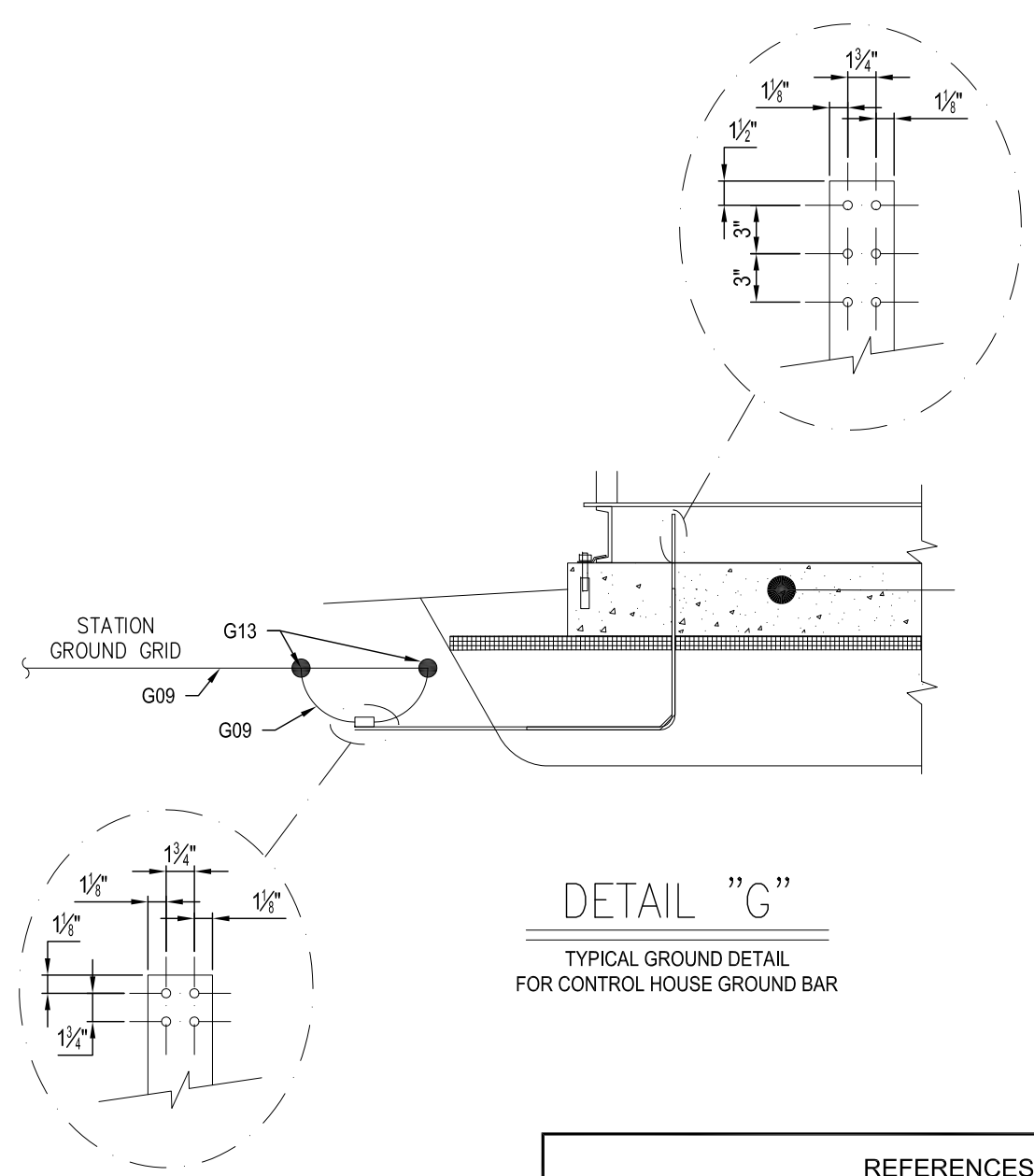
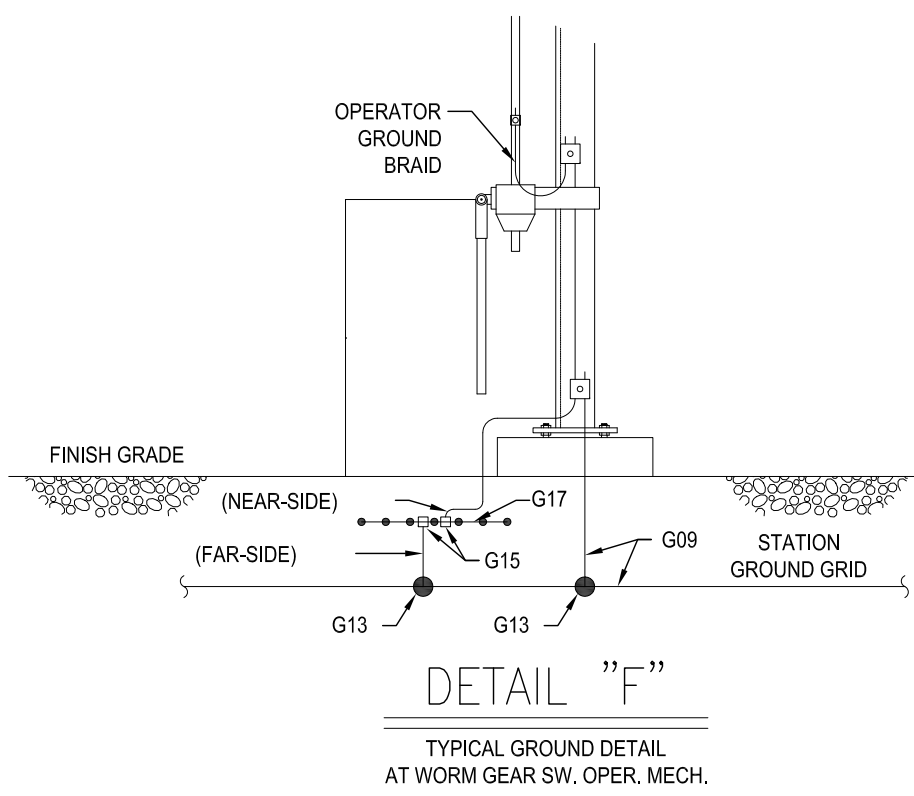
PLAN VIEW

| | | | | | | | | |
|------------|--|-----|--------------------------|---|-----|--------------------|-----|--|
| REFERENCES | | TRC | | 249 Western Avenue Augusta, ME 04330 | | PROJECT NO: 327851 | | |
| | | REV | DESCRIPTION | DATE | DES | CHK | APP | |
| | | | | | | | | |
| | | A | ISSUED FOR CLIENT REVIEW | 06/20/19 | AAD | DG | AKD | |

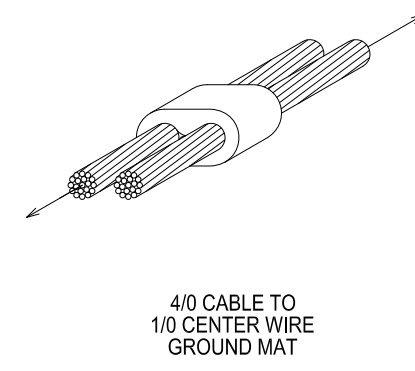
| | | | | | |
|---------------------|--|--|--|------|--|
| AAD/TRC DESIGNED | | PRELIMINARY SWITCHYARD SUBSTATION FENCE & GROUNDING PLAN HIGH RIVER ENERGY CENTER HIGH RIVER ENERGY CENTER, LLC FLORIDA MONTGOMERY CO., NY | | REV. | |
| AAD/TRC DRAWN | | | | A | |
| DG/TRC CHECKED | | | | | |
| AKD/TRC APPROVED | | | | | |
| REVIEW 1 | | 06/20/19 DATE | | | |
| REVIEW 2 | | 3/32"=1'-0" SCALE | | | |



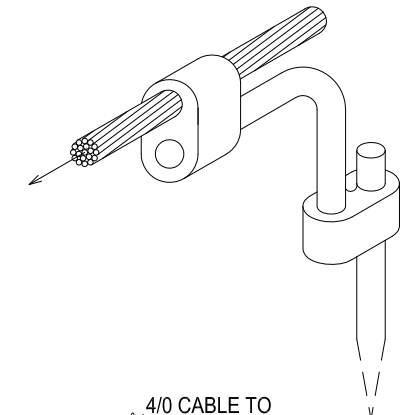
- REFERENCE DRAWINGS:**
- S-009 - SWITCHYARD SUBSTATION POWER ONE-LINE DIAGRAM
 - S-010 - SWITCHYARD SUBSTATION GENERAL ARRANGEMENT PLAN
 - S-011 - SWITCHYARD SUBSTATION SECTIONS A-A, B-B
 - S-012 - SWITCHYARD SUBSTATION SECTIONS C-C, D-D, E-E
 - S-013 - SWITCHYARD SUBSTATION YARD LIGHTING PLAN
 - S-014 - SWITCHYARD SUBSTATION FENCE & GROUNDING PLAN
 - S-016 - SWITCHYARD SUBSTATION CONTROL HOUSE ELECTRICAL LAYOUT PLAN



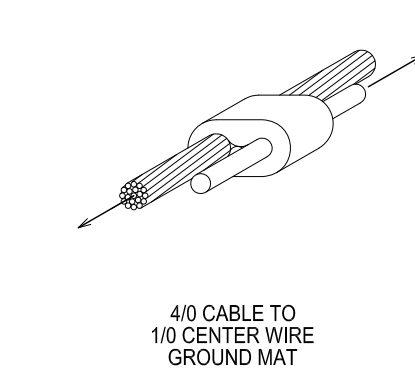
BURNDY CAT.#YGL28C29 MARK"G13"
 CONDUCTOR RANGE:
 COND. "A" - #2 SOL-250KCM
 COND. "B" - #2 STR-250KCM
 COMPRESSION TOOLS:
 Y750Y35V39 HYPRESS
 Y45 HYPRESS W/ PT6515 ADAPTER
 Y46 HYPRESS W/ P-JADP ADAPTER
 DIE SET CAT.# U997
 ONE (1) CRIMP REQUIRED



BURNDY CAT.#YGH28C29 MARK"G23"
 CONDUCTOR RANGE:
 RUN - #3/0 STR-250KCM
 TAP - #3/0 STR-250KCM
 COMPRESSION TOOLS:
 Y750Y35V39 HYPRESS
 DIE SET CAT.# U997
 ONE (1) CRIMP REQUIRED



BURNDY CAT.#YGL34C29 MARK"G14"
 CONDUCTOR RANGE:
 ROD - #1 - 2"
 CABLE - #2 STR-250KCM
 COMPRESSION TOOLS:
 Y750Y45Y46 HYPRESS
 Y750 COND. "A" DIE SET CAT.# PU998
 Y750 COND. "B" DIE SET CAT.# U997
 Y45 COND. "A" DIE SET CAT.# S998 OR PU998
 Y46 COND. "A" DIE SET CAT.# P998 OR PU998
 Y46 COND. "B" DIE SET CAT.# U997
 ONE (1) CRIMP REQUIRED
 TWO (2) CRIMP ON GND. ROD
 PRECRIMP GND. ROD USE CAT.#JUZCABT



BURNDY CAT.#YGH28C29 MARK"G15"
 CONDUCTOR RANGE:
 RUN - #6 SOL-210 STR
 TAP - #6 SOL-210 STR
 COMPRESSION TOOLS:
 Y750Y35V39 HYPRESS
 DIE SET CAT.# U997
 ONE (1) CRIMP REQUIRED

PRELIMINARY
 NOT FOR CONSTRUCTION

| | | | | | | | |
|------------|--|-----|--------------------------|----------|-----|-----|-----|
| REFERENCES | | REV | DESCRIPTION | DATE | DES | CHK | APP |
| | | A | ISSUED FOR CLIENT REVIEW | 06/20/19 | AAD | DG | AKD |

TRC 249 Western Avenue
 Augusta, ME 04330

PROJECT NO: 327851

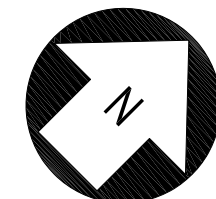
PRELIMINARY
 SWITCHYARD SUBSTATION FENCE & GROUNDING DETAILS
 HIGH RIVER ENERGY CENTER
 HIGH RIVER ENERGY CENTER, LLC
 FLORIDA MONTGOMERY CO., NY

06/20/19
 DATE
 NONE
 SCALE

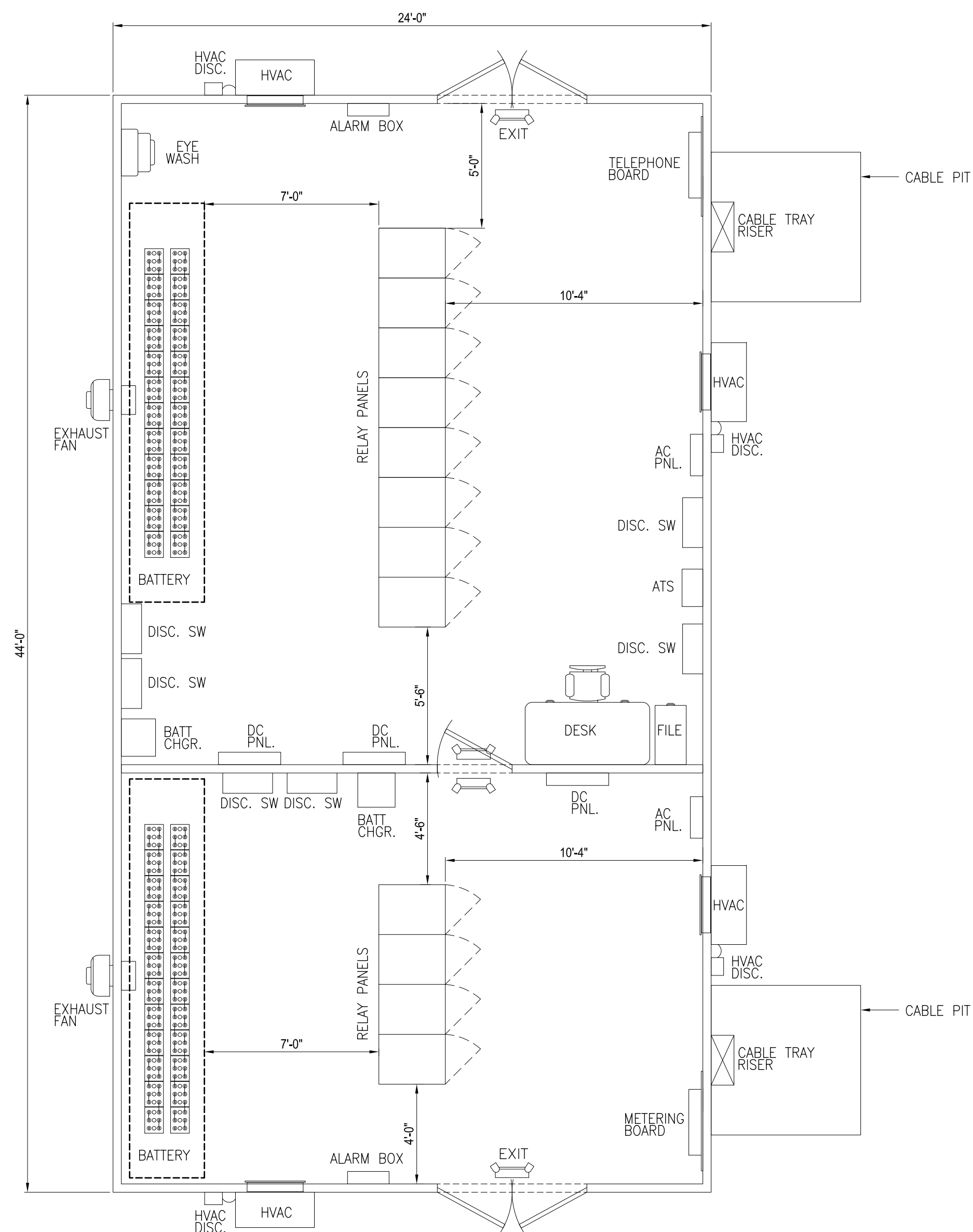
TRC

S-015

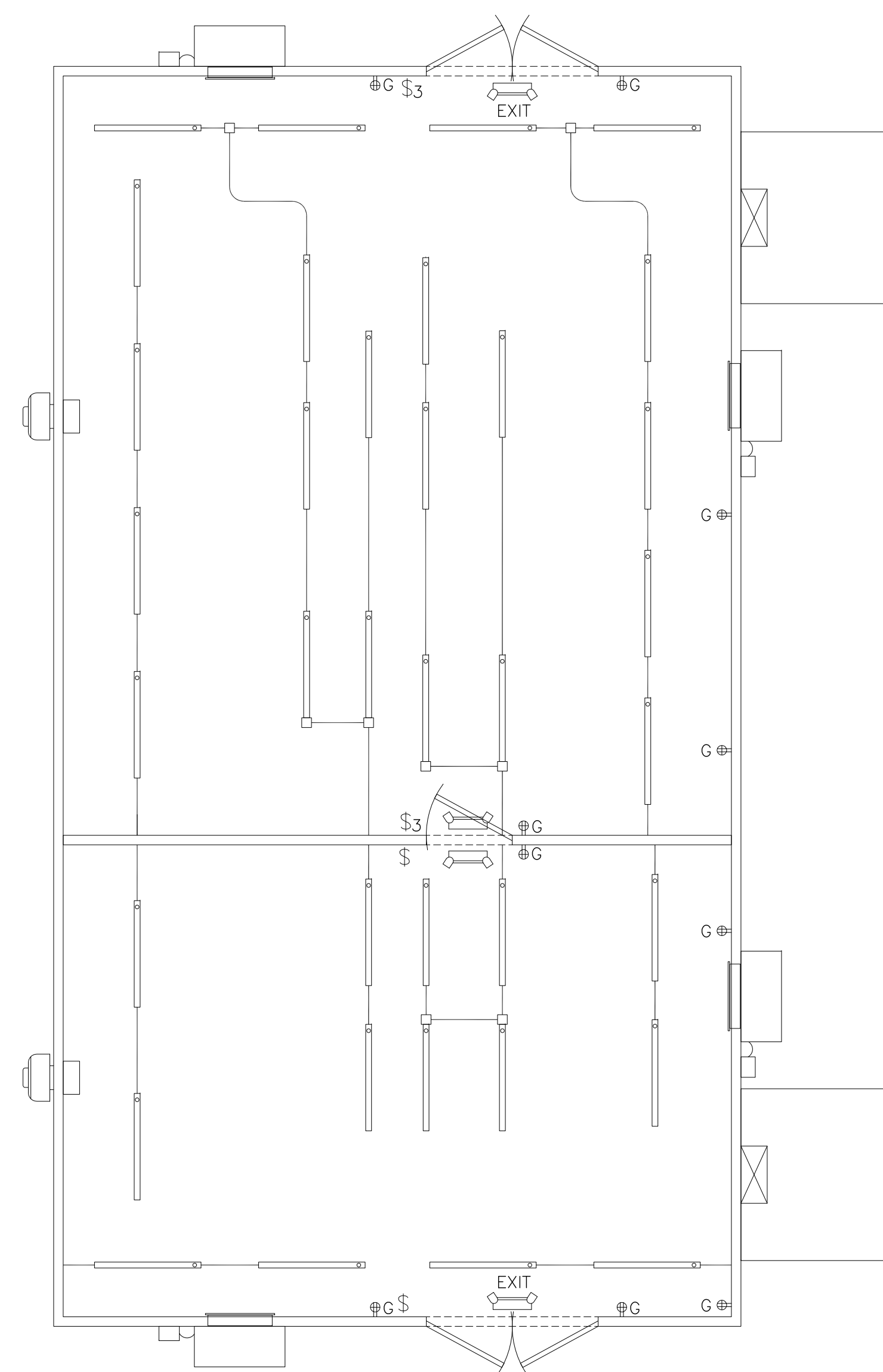
REV. A



ADJUST DIRECTION OF NORTH ARROW AS NEEDED



CONTROL ROOM FLOOR PLAN



CONTROL ROOM LIGHTING PLAN

REFERENCE DRAWINGS:

- S-009 - SWITCHYARD SUBSTATION POWER ONE-LINE DIAGRAM
- S-010 - SWITCHYARD SUBSTATION GENERAL ARRANGEMENT PLAN
- S-011 - SWITCHYARD SUBSTATION SECTIONS A-A, B-B
- S-012 - SWITCHYARD SUBSTATION SECTIONS C-C, D-D, E-E
- S-013 - SWITCHYARD SUBSTATION YARD LIGHTING PLAN
- S-014 - SWITCHYARD SUBSTATION FENCE & GROUNDING PLAN
- S-015 - SWITCHYARD SUBSTATION FENCE & GROUNDING DETAILS

LEGEND:

- § - SINGLE TOGGLE SWITCH
- §3 - 3 WAY TOGGLE SWITCH
- ⊞ - HVAC THERMOSTAT
- - WIRING HOME RUN, SINGLE POLE
- - WIRING HOME RUN, DOUBLE POLE
- ⊞G - DOUBLE DUPLEX OUTLET, 20A

LIGHTING SCHEDULE:

- ⊞ - FLOURESCENT LIGHT FIXTURE, 2 LAMP 4', 32 WATT, 120V
- ⊞ - OUTDOOR LIGHT FIXTURE, HIGH PRESSURE SODIUM, 70 WATT, 120V
- EXIT - EMERGENCY BATTERY LIGHT/EXIT SIGN, 120V

PRELIMINARY
NOT FOR CONSTRUCTION

| TRC 249 Western Avenue Augusta, ME 04330 | | PROJECT NO: 327851 | | | |
|--|--------------------------|--------------------|-----|-----|-----|
| REV | DESCRIPTION | DATE | DES | CHK | APP |
| | | | | | |
| | | | | | |
| | | | | | |
| A | ISSUED FOR CLIENT REVIEW | 06/20/19 | AAD | DG | AKD |

| | | |
|---|---|---|
| AAD/TRC DESIGNED AAD/TRC DRAWN DG/TRC CHECKED AKD/TRC APPROVED | PRELIMINARY SWITCHYARD SUBSTATION CONTROL HOUSE ELECTRICAL LAYOUT PLAN HIGH RIVER ENERGY CENTER HIGH RIVER ENERGY CENTER, LLC FLORIDA MONTGOMERY CO., NY | REV. A S-016 |
| REVIEW 1 DATE REVIEW 2 SCALE | | 06/20/19 DATE 1/4"=1'-0" SCALE |