Utilities Commission
Central Stores
1151 Field St.
New Smyrna Beach, FL 32168-7281

ATTENTION:

SUBJECT: SEECo Sales Catalog : 3GL115204XN
CUSTOMER P.O. NO. : 2050403-00
SEECo S.O. NO. : 125873
PROJECT : ITB 21-20 Tie Switch – Cust. PO# PO00016707
SWITCH QTY. : 1

WE ARE PLEASED TO ENCLOSE THE FOLLOWING INFORMATION FOR YOUR USE AND RETENTION EXCEPT WHERE NOTED OTHERWISE.

☒ –DRAWINGS ☒ –APPROVAL ☐–FINAL ☐–REFERENCE

NOTE: FOR APPROVAL DRAWINGS, PLEASE MARK ONE SET “APPROVED” OR “APPROVED AS NOTED” AND RETURN TO SEECo. QUOTED DELIVERY TIME COMMENCES FROM RECEIPT OF FINAL APPROVAL DRAWINGS.

☐–CATALOG DATA
☐–TEST DATA
☐–USERS LIST
☐–OTHER

<table>
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<tr>
<th>SHEETS</th>
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<td>2</td>
<td>D-T816-1699 – Rev. B</td>
<td>Control Mechanism Drawing</td>
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<td>1</td>
<td>D-V809-0645 – Rev. A</td>
<td>Frame Assembly Drawing</td>
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<td>D-3W11520-055WF</td>
<td>Single Phase Drawing</td>
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<td>B-E806-0219 – Rev. A</td>
<td>Loadbreak Drawing</td>
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<td>B-V806-6756 – Rev. G</td>
<td>Stabilizer Kit Drawing</td>
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<td>B-V806-6119 – Rev. D</td>
<td>Upper Frame Spacer Drawing</td>
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<td>A-W809-8525 – Rev. B</td>
<td>Lower Frame Spacer Drawing</td>
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<td>B-V809-2219 – Rev. B</td>
<td>Designator Assembly Drawing</td>
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<td>1</td>
<td>B-V817-8339</td>
<td>External Auxiliary Switch Drawing</td>
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COMMENTS:

Regards,

Brandon Spang
SEECo
# Name Plate Request

**JOB NUMBER:** 125873  
**DATE:** 21-Sep-20  
**CUSTOMER:** Gresco

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>GOABS/R/ 3GL115204XN</th>
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<td>TYPE</td>
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**SWITCH QTY.** 1

-20-1-2  
-20-1-3  
-20-1-4
115kV, 2000A, 3-WAY, TYPE "G" GOAB
W/ 4-BOTTLE MONORUPTRS, PHASE-OVER-PHASE
MOUNTED ON A CONCRETE POLE

Notes

1. Switch and controls are shown in the closed position.

2. Attach one name plate to each switch frame/base and one on or near the control so that it can be read by the switch operator.

3. A waterproof packet with drawings and installation instructions is included with material shipped in the closed control component crate. The packet is marked "DRAWINGS ENCLOSED."

4. Quality contact sealing paste is recommended between switch terminal pads and terminal connectors. (Paste by customer)

5. The control pipe may be cut to a shorter length as required in the field. Paint cut ends of pipe with a cold galvanizing compound.

6. Items 100+ are listed but not called out on the drawing.

7. Maximum Tension : 10,000#; Ultimate Tension : 16,500#

Limited to Straight-Line Pull. For angular tensions, contact the manufacturer. Tension must be equal on both sides.

8. All Thru-Bolts by customer.

9. Install Weight: 9,095 lbs.
FRAME MOUNTING DETAIL
ATTACH FRAME TO POLE USING (4x) Ø3/4" THRU BOLTS.
ATTACH STABILIZERS TO POLE USING (2x) Ø5/8" THRU BOLTS.
SEE DRAWING V806-6756 FOR FURTHER STABILIZER KIT DETAIL.

TYPICAL - THREE ELEVATIONS

TYPICAL - THREE ELEVATIONS

OPERATOR MOUNTING DETAIL
ATTACH CENTER BRACKETS USING (2x) Ø5/8" THRU BOLTS.
ATTACH SIDE BRACKETS TO EACH OTHER USING (2x) Ø5/8" THRU BOLTS.
ALLOWABLE STRAIN LOAD DETAIL NOTES:
1. FOR CONDITIONS OF ANGULAR LOADING AS SHOWN IN TABLES BELOW.
2. FOR OTHER CONDITIONS OF ANGULAR LOADING, CALL THE FACTORY FOR ADVICE.

BILL OF MATERIALS
PART NUMBER V809-0665, FRAME BOLT PACKAGE
ITEM PART NUMBER QTY. DESCRIPTION

ALLOWABLE STRAIN LOAD FOR ALL 2-WAY & 3-WAY FRAMES
1. FOR CONDITIONS OF ANGULAR LOADING AS SHOWN IN TABLES BELOW.
2. FOR OTHER CONDITIONS OF ANGULAR LOADING, CALL THE FACTORY FOR ADVICE.
NOTES:
1. SET BLADE ENGAGEMENT TO THIS RANGE TO ENSURE PROPER OPERATION OF THE SWITCH.
2. QUALITY CONTACT SEALING PASTE IS RECOMMENDED BETWEEN SWITCH TERMINAL PADS AND TERMINAL CONNECTORS. (PASTE BY CUSTOMER)
3. SWITCH FRAMES ARE SUPPLIED PER APPLICATION. SEE APPLICABLE CONTROL DRAWING FOR FRAME INFORMATION.
4. SHOWN WITH STANDARD TR-286 PORCELAIN INSULATORS. INSULATORS MAY VARY PER ORDER. SEE APPLICABLE CONTROL DRAWING FOR INSULATOR INFORMATION.
5. ADJUST STOPS FOR 90 DEGREES OF ROTATION.

<table>
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<tr>
<th>ITEM NO.</th>
<th>PART NUMBER</th>
<th>QTY</th>
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<tr>
<td>1</td>
<td>V819-3707</td>
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<td>SUB BASE ASSEMBLY 5&quot; B.C.</td>
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<td>94414</td>
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<td>UNIVERSAL LEVER</td>
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<td>4</td>
<td>87381</td>
<td>1</td>
<td>5&quot; BC 3-WAY CLIP CAP</td>
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<td>5</td>
<td>94417</td>
<td>1</td>
<td>CLIP ASSEMBLY, 115kV &amp; ABOVE CCW</td>
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<td>94418</td>
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<td>CLIP ASSEMBLY, 115kV &amp; ABOVE, CW BLADE</td>
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<td>7</td>
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<td>HINGE ASS'Y, 115kV &amp; ABOVE, 2000A</td>
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<td>V806-6702</td>
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<td>BLADE ASSEMBLY, 115kV, 2000A, SM / POP</td>
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<td>9</td>
<td>V819-0416</td>
<td>3</td>
<td>HINGE SUPPORT ASSEMBLY</td>
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<td>HHMB, 1/2&quot;-13 x 3 3/4&quot; LG., SS</td>
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<td>CARR. BOLT, 1/2&quot;-13 x 2&quot; LG., SS</td>
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<td>58941</td>
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<td>HEX NUT, 1/2&quot;-13, SS</td>
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<td>14</td>
<td>NP-22</td>
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<td>SWITCH NAME PLATE</td>
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<td>56655</td>
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<td>DRIVE SCREW, TYPE &quot;U&quot;, #6 x 1/4&quot; LG., SS</td>
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<td>PHASE ASSEMBLY HARDWARE, 5&quot; B.C., 3W</td>
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<td>V806-6342</td>
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<td>PHASE ATTACHMENT HARDWARE, 5&quot; B.C., 3W</td>
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<td>BEVEL WASHER, 5/8&quot;, GS</td>
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<td>21</td>
<td>N0306</td>
<td>16</td>
<td>HEX NUT, 5/8&quot;-11, A-325, GS</td>
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</tbody>
</table>

SHEET 1 OF 1

Southern Electrical Equipment Co.
4045 Hargrove Ave. Charlotte, NC 28208
**FIELD NOTES:**

1. Main switches should be completely installed and adjusted prior to installation of MONORUPTERS.
2. In adjusting MONORUPTERS during installation, one main switch only should be operated at a time. The other switch must be in the completely open or closed position before a particular switch is operated. At no time during the life of the equipment should both switches be operated simultaneously.
3. Dimension "A" is preset at the factory and can be confirmed by measuring the distance as shown, at the point where the interupter is heard to trip.
4. After bolting the MONORUPTER onto switch, move blade clamp assembly (items 2 & 3) onto blade to the 6" dimension from the end of blade per Section "A-A" and clamp into position.
5. Adjust auxiliary stationary contacts (items 4 & 5) to the 1.50" dimension shown in Detail "D". The engagement of the moving and fixed auxiliary contacts should be as shown in Section "B-B".
6. With switch blade closed, adjust the engagement of the MONORUPTER operating arm contact (Part of Item 1) and pickup arm of the blade clamp assembly as shown in Detail "C".
7. After completing adjustments make several close-open operations slowly to check operation. After proper adjustments are confirmed, make sure all connections are tightened properly. Interrupter is ready for service.

**NOTE:** FOR THE ADDITION OF MONORUPTER TO SWITCHES PRESENTLY EQUIPPED WITH ARcing HOrNS

1. Remove arcing horns from blades.
2. Remove fixed arcing horns from the jaw assemblies.
3. Assemble auxiliary stationary contacts (items 4 & 5)
4. The blade pickup assembly (items 2 & 3) and the auxiliary moving contact are to be assembled on the blade and positioned as shown in Section "A-A". Clamp onto blade but do not pierce blade with set screw.
5. Proceed at step 5 of FIELD NOTES.

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**ITEM NO.** | **PART NUMBER** | **DESCRIPTION** | **QTY.**
--- | --- | --- | ---
1 | V806-0960 | 4-Bottle 2, 3 Way Monoruptr | 1
2 | V809-8564 | Blade Clamp Assembly - CW - 115-161kV | 2
3 | V809-8479 | Blade Clamp, CCW 115kV-161kV | 1
4 | 94488 | Auxiliary Stationary Contact Ass'y (RH-Long) | 2
5 | 94489 | Auxiliary Stationary Contact Ass'y (LH-Long) | 1

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**SEECO**

**MONORUPTER SWITCH for 3-Way GOABS Single Phase, 115kV, 2000 Amp**

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**SIZE**

**DWG. NO.** E806-0219

**REV.** A

---

**DRAWN INTO SOLIDWORKS**

**DRAWN** 11/8/2012

**CHECKED** YN

**ENG APPR.**

**MFG APPR.**

**Q.A.**

**COMMENTS:**

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**DIMENSIONS ARE IN INCHES**

**TOLERANCES:**

- **FRACTIONAL:** ± 1/16"
- **ANGULAR: MACH:** ± 1 deg
- **TWO PLACE DECIMAL:** ± .05
- **THREE PLACE DECIMAL:** ± .005

---

**MATERIAL**

**DRAWN**

**CHECKED**

**ENG APPR.**

**MFG APPR.**

---

**UNLESS OTHERWISE SPECIFIED:**

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**SHEET 1 OF 1**
NOTES:
1. ø3/4" THRU BOLTS REQUIRED FOR ADAPTER AND ø5/8" THRU BOLTS REQUIRED FOR STABILIZER CHANNEL.
2. THRU BOLTS SUPPLIED BY CUSTOMER.
NOTES:
1) MATERIAL - 6" WF A 15# x 10'-0" LG. STRUC. STL. PER ASTM A-36.
2) HOT DIP GALV. AFTER FAB. & WELD PER ASTM A-123.
3) MAX DESIGN TENSION 10,000 LBS. (16,500 ULTIMATE)
W/ STRAIGHT LINE PULLS & BALANCED TENSIONS
NOTES:
1. DEBURR ALL SHARP EDGES.
2. SHEET 1 FOR FABRICATION; SHEET 2 FOR REFERENCE.

DESCRIPTION:
6 WF @ 15.0#/ft. x 5'-0" G., A-36 (FRAME SPACER)

MATERIAL: ASTM A36 Steel
FINISH: HOT DIP GALVANIZE

REVISIONS

<table>
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<th>REV.</th>
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<th>DATE</th>
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<tr>
<td>A</td>
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<td>8/12/2011</td>
<td>JEG</td>
<td>JR</td>
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<td>B</td>
<td>RE-DIMENSIONED; ADDED SHEET 2; UPDATED NOTES</td>
<td>8/26/2020</td>
<td>NTM</td>
<td>WRR</td>
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INSTALLATION INSTRUCTIONS:

1. Mount Item 1 using Items 21, 22 & 23.
2. Attach Crank (Item 11) to existing 2" IPS operating pipe. Be sure to attach in such a position as to give full range of motion.
3. Remove Cover (Item 9) & Seal (Item 8) by removing Items 14, 15 & 16 and run conduit as needed through the \( \frac{11}{16} \)" hole provided in the mounting plate (Item 1).
4. Connect and run wire for the number of Aux. Switches (Item 3) required.
5. Set Aux. Limit Switches (Item 3) for the Open and Closed positions.
6. Replace cover and seal using previously removed hardware (Items 14, 15 & 16).
7. Check and make sure all bolts and set screws are tightened properly.

ITEM NO. | PART NUMBER | DESCRIPTION
--- | --- | ---
1 | W817-1048 | SWITCH CHANNEL MOUNTING PLATE
2 | W817-1043 | SWITCH SUPPORT CHANNEL
3 | P817-0515 | AUXILIARY & LIMIT SWITCH
4 | V817-2515 | CONTROL PIPE WELDMENT
5 | W817-1040 | EXTERNAL SWITCH ADJUSTMENT MOUNTING PLATE
6 | W817-1041 | CONTROL PIPE RETAINING COLLAR
7 | W817-1042 | LIMIT SWITCH ADJUSTMENT COLLAR
8 | W817-1050 | RUBBER GASKET FOR CAP
9 | V817-1183 | SHORT COVER CAP WELDMENT
10 | W819-7734 | ROD, 1/2" DIA. X 3'-0" LG., 6061-T6 (AUX. DRIVING ROD)
11 | V809-9511 | CRANK WELDED ASS'Y.
12 | W809-7981 | COTTER PIN, 3/32 DIA. X 3/4" LG., SS
13 | N0566 | CUP POINT SET SCREW, #10-24 X 1/4" LG., SS
14 | 58873 | HHMB, 1/4-20 X 5/8" LG., SS
15 | 58650 | LOCK WASHER, 1/4", SS
16 | W809-7964 | FLAT WASHER, 1/4" USS, SS
17 | N0202 | CUP POINT SET SCREW, 3/8"-16 X 3/8" LG., SS
18 | W809-7747 | HHMB, 1/2"-13 X 1" LG., SS
19 | 56486 | HHMB, 1/2"-13 X 1 1/4" LG., GS
20 | 55371 | HEX NUT, 1/2", ASM, GS
21 | 55635 | LOCK WASHER, 1/2", GS
22 | W817-1380 | EXTERNAL AUX SWITCH ANGLE
23 | W817-1997 | AUXILIARY SWITCH MOUNTING CHANNEL
24 | 59772 | HHMB, 1/2"-13 X 1 1/2" LG., SS
25 | 58883 | HEX NUT, 1/2", USS, SS
26 | 59411 | FLAT WASHER, 1/2", USS, SS
27 | W809-7771 | FLAT WASHER, 1/2", USS, SS

MATERIAL

DIMENSIONED IN INCHES

TOLERANCES:
FRACTIONAL: 1/16"
ANGULAR: MACH 1 Deg
TWO PLACE DECIMAL: .05
THREE PLACE DECIMAL: .005

SEECO Southern Electrical Equipment Co.
4045 Hargrove Ave.
Charlotte, NC 28208

NOT SCALE DRAWING

N/A

SEECO

SHEET 1 OF 1