

PROPOSED SOLAR POWER SITE:

WINDSOR SOLAR ONE  
41°54'2.27"N 72°39'49.60"W  
445 RIVER STREET  
WINDSOR, CT 06095

ARRAY LOCATION



PROJECT SITE



SHEET INDEX: FLEXTRACK S-SERIES

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|    |   | SIGN-OFF<br>DEC. 23, 2024 | IFP STAMPED SET<br>APRIL. 09, 2025 |  |  |
|    |   | ISSUANCE/REVISION         |                                    |  |  |

LEGEND:  
● ISSUED  
○ REVISED, BUT NOT ISSUED

PREPARED FOR:

VEROGY  
124 LASALLE ROAD  
WEST HARTFORD, CT 06107

GENERAL NOTES:

1. CODES AND STANDARDS:

IBC 2021  
NEC 2020  
AISC 360–16  
AISI S100–20  
ASCE 7–16

2. WIND DESIGN PARAMETERS:

ULTIMATE DESIGN WIND SPEED, V – 110 MPH  
RISK CATEGORY – I  
WIND EXPOSURE CATEGORY C, K<sub>z</sub> – 1.00  
TOPOGRAPHICAL FACTOR, K<sub>zt</sub> – 1.00  
WIND DIRECTIONALITY FACTOR, K<sub>d</sub> – 0.85  
GUST FACTOR & NET PRESSURE COEFFICIENT, GCN  
–GCN COEFFICIENTS DETERMINED BASED ON WIND TUNNEL TESTING  
–SEE SFR STRUCTURAL REPORT FOR PROJECT SPECIFIC GCN COEFFICIENTS

3. SNOW DESIGN PARAMETERS:

GROUND SNOW LOAD – 30 PSF  
EXPOSURE CATEGORY, C<sub>e</sub> – 0.90  
SNOW THERMAL FACTOR, C<sub>t</sub> – 1.20  
SNOW IMPORTANCE FACTOR, I – 0.80  
SNOW REDUCTION FACTOR SLIPPERY SURFACES, C<sub>s</sub>

| TILT ANGLE | C <sub>s</sub> VALUE |
|------------|----------------------|
| 0°–15°     | 1.00                 |
| 20°        | 0.91                 |
| 25°        | 0.82                 |
| 30°        | 0.73                 |
| 35°        | 0.64                 |
| 40°        | 0.55                 |
| 45°        | 0.46                 |
| 50°        | 0.37                 |
| 55°        | 0.28                 |

4. EARTHQUAKE DESIGN PARAMETERS – EQUIVALENT LATERAL FORCE:

RISK CATEGORY – I  
SITE CLASS – D  
SEISMIC IMPORTANCE FACTOR, I<sub>e</sub> – 1.0  
RESPONSE MODIFICATION COEFFICIENT, R – 2  
SPECTRAL RESPONSE ACCELERATION PARAMETERS

| MAPPED                  | DESIGN                   |
|-------------------------|--------------------------|
| S <sub>s</sub> – 0.181g | S <sub>DS</sub> – 0.193g |
| S <sub>1</sub> – 0.055g | S <sub>D1</sub> – 0.088g |

SEISMIC DESIGN CATEGORY – B  
SEISMIC RESPONSE COEFFICIENT, C<sub>s</sub> – 0.097

5. FOUNDATIONS:

FOUNDATION DESIGNED BY OTHERS.

6. APPLICABLE INSTALLATION TOLERANCES (PER SINGLE TRACKER):

N–S TRACKER SLOPE: 5%  
A–FRAME N/S SPACING: ±1 ½"  
TOP OF A–FRAME E–W ALIGNMENT: ±¾"  
TOP OF A–FRAME PLUMB: ±1"  
TOP OF A–FRAME TWIST: ±3"  
TOP OF A–FRAME(IDLER) OUT OF STRING–LINE: ±1"

TOP OF DRIVE A–FRAME IS 3" ABOVE IDLER A–FRAME.  
MINIMUM RECOMMENDED CLEARANCE BETWEEN TRACKERS NO LESS THAN 12".  
REFER TO APA DRAWINGS FOR A–FRAME INSTALLATION TOLERANCES.

PREPARED BY:

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23000 HARVARD RD., SUITE B  
CLEVELAND, OH 44122

7. CONNECTIONS:

SEE SHEETS S4–S7 FOR TORQUE VALUES FOR EACH CONNECTION.

8. PV MODULE INFORMATION:

NAME/MODEL: FIRST SOLAR SERIES 7 535W  
DIMENSIONS: 90.551" LONG X 47.874" WIDE X 2.205" TALL  
WEIGHT: 87.5 LBS  
VERSION: MPD–00903–07–US – JULY 2024

9. MATERIALS AND COATINGS:

- A. PILES:  
I. W–SECTIONS: A992 STEEL HOT DIPPED GALVANIZED PER ASTM A123.
- B. HARDWARE:  
I. ¾"Ø TO BE F3125 GRADE A325 HOT DIPPED GALVANIZED PER ASTM A153.  
II. ½"Ø TO BE F3125 GRADE A325 HOT DIPPED GALVANIZED PER ASTM A153.  
III. ½"Ø TO BE F3125 GRADE A325 HOT DIPPED GALVANIZED PER ASTM A153.  
IV. ¾"Ø TO BE A449 MECHANICAL GALVANIZED PER MAGNI 560.  
V. ¾"Ø TO BE A449 MECHANICAL GALVANIZED PER MAGNI 560 OR STAINLESS STEEL.  
VI. ¼"Ø TO BE A449 MECHANICAL GALVANIZED PER MAGNI 560 OR STAINLESS STEEL.
- C. COLD FORMED STEEL:  
I. TORQUE TUBE TO BE A500 GRADE C PRE GALVANIZED PER ASTM A1057, ZT 60.  
II. ALL COLD FORM STEEL TO BE PRE GALVANIZED PER A653 UNLESS OTHERWISE NOTED(G90 MINIMUM).

10. TRACKER STANDARDS:

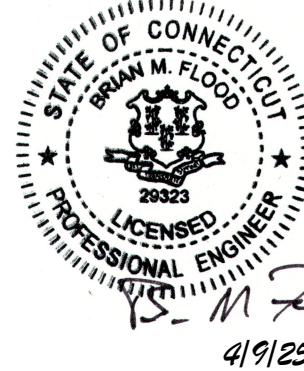
- A. UL3703  
B. UL2703

11. STOW STRATEGY:

- A. STOW ANGLE: 55°  
B. TIME TO STOW: 2 MINUTES  
C. STOW TRIGGER WIND SPEED: 35 MPH  
D. WIND SPEED SENSOR INTERACTION: 3 SECOND GUST  
E. MANUAL STOW INSTRUCTION DOCUMENT: D001–NCU INSTALLATION & OPERATION MANUAL

ABBREVIATIONS

|      |                  |       |                       |
|------|------------------|-------|-----------------------|
| MIN  | MINIMUM          | BC    | BEARING CRADLE        |
| MAX  | MAXIMUM          | C–C   | CENTER TO CENTER      |
| OH   | OVERHANG         | CD    | CRITICAL DIMENSION    |
| PAC  | POST ABOVE GRADE | CTA   | CENTRAL TUBE AXIS     |
| REF  | REFERENCE        | DIM   | DIMENSION             |
| DIA  | DIAMETER         | EOP   | END OF PANEL          |
| TYP  | TYPICAL          | HORIZ | HORIZONTAL            |
| VERT | VERTICAL         | HDG   | HOT DIPPED GALVANIZED |
| STD  | STANDARD         | PLN   | PLAIN                 |
| RV   | RECEIVER         | SWG   | SWAGED                |
| CP   | CLAMP            | EOT   | END OF TUB            |
| S/C  | STOCK CODE       |       |                       |



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CUSTOMER:

COVER SHEET

VEROGY  
WINDSOR SOLAR ONE  
WINDSOR, CT 06095

|       |       |            |           |          |  |
|-------|-------|------------|-----------|----------|--|
| SHEET | 19097 |            | PAGE      | S0 of S9 |  |
|       | DATE: | 04/09/2025 | CHECK BY: | JRD      |  |
|       |       | DRAWN BY:  | ZC        |          |  |

S0





# Series 7 *TR1*.

## 525-550 Watt Thin Film Solar Module

Series 7 *TR1* modules combine First Solar's thin film technology with a larger form factor and an innovative new back rail mounting system to deliver improved efficiency, enhanced installation velocity, and unmatched lifetime energy performance for utility-scale PV projects.



### More Lifetime Energy per Nameplate Watt

- Industry's best (0.3%) warranted degradation rate
- Superior temperature coefficient, spectral, and shading response
- No power loss from LID or LeTID
- Anti-reflective coated glass enhances energy production



### Innovative Module Design

- Optimized back rail mount design enhances installation velocity
- Frameless design improves soiling and snow shedding
- Dual junction box design reduces wire management complexity and cost



### Unmatched Quality and Reliability

- End-to-end manufacturing process for globally consistent quality
- Tested and certified to IEC standards and beyond
- Durable glass/glass construction
- Immune to and warranted against power loss from cell cracking
- 12-year Limited Product Warranty



### Industry's Most Eco-efficient PV Solution

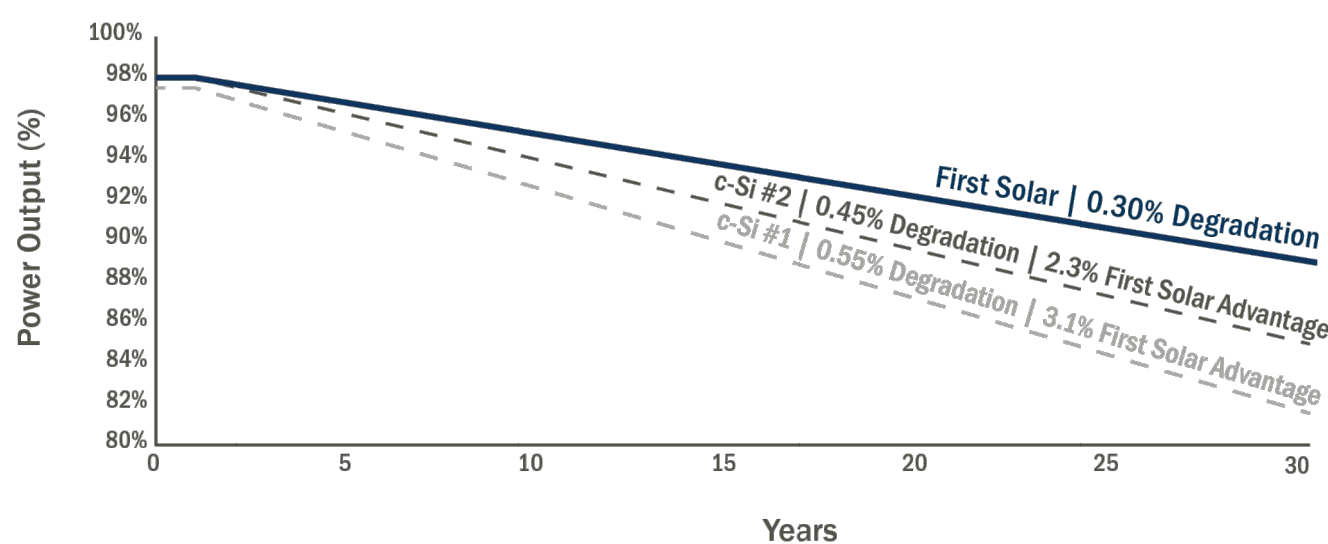
- Industry leading carbon footprint, water footprint and energy payback time
- Globally available PV module recycling services



### America's Solar Company

- Designed, responsibly sourced, and manufactured in the USA

**First Solar Lifetime Energy Advantage**  
From 30 Year Warranted Annual Power Degradation



Learn more about First Solar  
and Series 7 *TR1*  
at [firstsolar.com/S7](https://firstsolar.com/S7)

First Solar, Inc. | [firstsolar.com](https://firstsolar.com) | [info@firstsolar.com](mailto:info@firstsolar.com)

MPD-00903-07-US | JUL 2024

U.S. MODULE DATASHEET

## Series 7 *TR1*.

### Electrical Specifications



**MODEL TYPES: FS-7XXXA-TR1** (XXX = NOMINAL POWER)  
**RATINGS AT STANDARD TEST CONDITIONS** (1000W/m<sup>2</sup>, AM 1.5, 25°C)<sup>2</sup>

|                                     |                      |                   |       |       |       |       |       |
|-------------------------------------|----------------------|-------------------|-------|-------|-------|-------|-------|
| Nominal Power <sup>3</sup> (-0/+5%) | P <sub>MAX</sub> (W) | 525               | 530   | 535   | 540   | 545   | 550   |
| Efficiency (%)                      | %                    | 18.8              | 19.0  | 19.1  | 19.3  | 19.5  | 19.7  |
| Cell Efficiency (%)                 | %                    | 19.7              | 19.9  | 20.1  | 20.3  | 20.4  | 20.6  |
| Voltage at P <sub>MAX</sub>         | V <sub>MAX</sub> (V) | 186.0             | 186.9 | 187.8 | 188.7 | 189.6 | 190.4 |
| Current at P <sub>MAX</sub>         | I <sub>MAX</sub> (A) | 2.82              | 2.84  | 2.85  | 2.86  | 2.88  | 2.89  |
| Open Circuit Voltage                | V <sub>OC</sub> (V)  | 226.1             | 226.7 | 227.2 | 227.7 | 228.2 | 228.8 |
| Short Circuit Current               | I <sub>SC</sub> (A)  | 3.04              | 3.05  | 3.06  | 3.06  | 3.07  | 3.08  |
| Maximum System Voltage              | V <sub>SYS</sub> (V) | 1500 <sup>5</sup> |       |       |       |       |       |
| Limiting Reverse Current            | I <sub>R</sub> (A)   | 5.0               |       |       |       |       |       |
| Maximum Series Fuse                 | I <sub>CF</sub> (A)  | 5.0               |       |       |       |       |       |

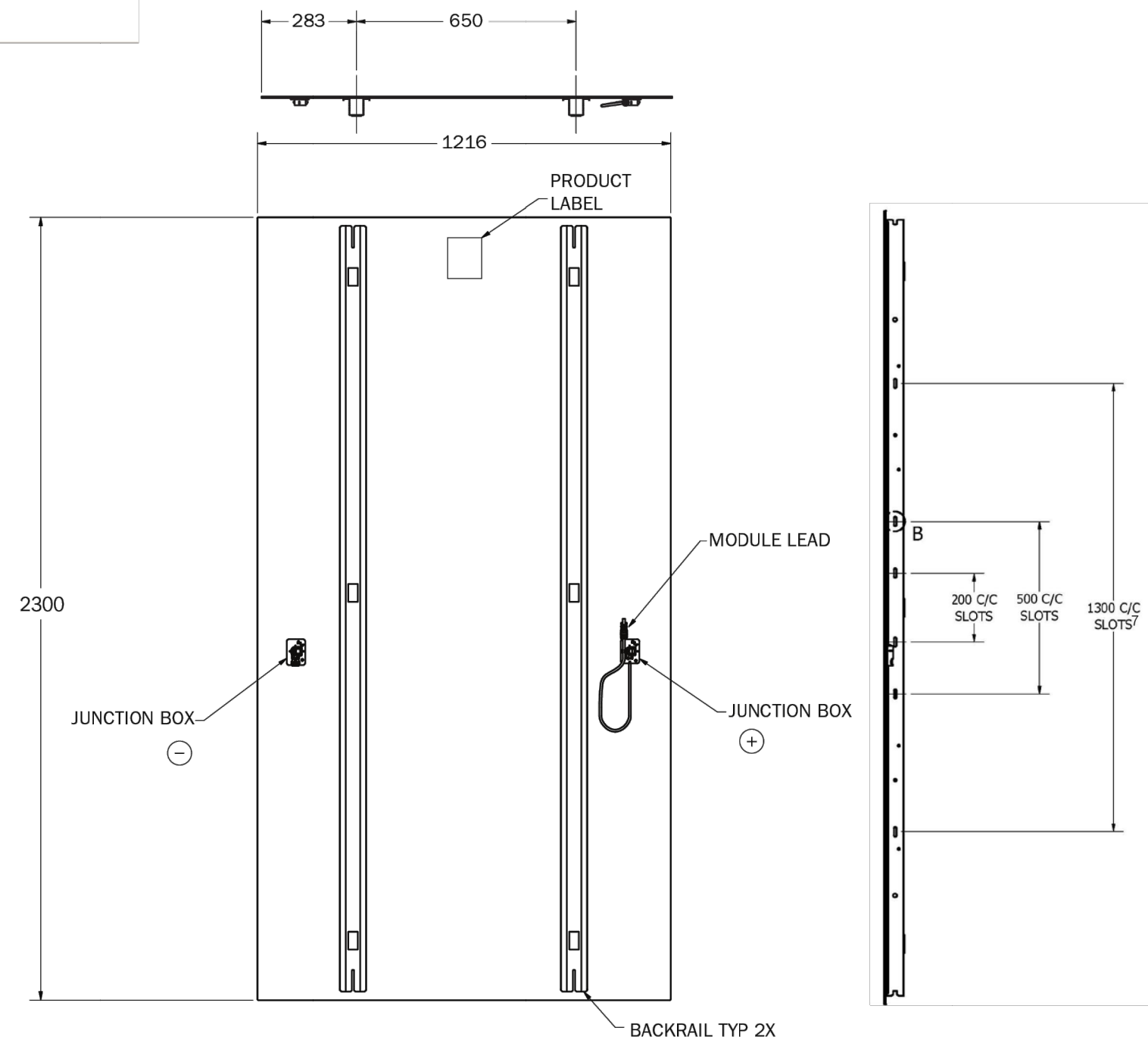
### TEMPERATURE CHARACTERISTICS

|   |                                    |   |
|---|------------------------------------|---|
| Module Operating Temperature Range          | (°C)                               | -40 to +85                                  |
| Temperature Coefficient of P <sub>MAX</sub> | T <sub>K</sub> (P <sub>MAX</sub> ) | -0.32%/°C [Temperature Range: 25°C to 75°C] |
| Temperature Coefficient of V <sub>OC</sub>  | T <sub>K</sub> (V <sub>OC</sub> )  | -0.28%/°C                                   |
| Temperature Coefficient of I <sub>SC</sub>  | T <sub>K</sub> (I <sub>SC</sub> )  | +0.04%/°C                                   |
| Nominal Operating Cell Temperature          | (°C)                               | 45  |

### PACKAGING INFORMATION

|              |                  |                         |
|--------------|------------------|-------------------------|
| Model Type   | Modules Per Pack | Packs per 53' Container |
| FS-7XXXA-TR1 | 44 / 46          | 10 / 9                  |

### Mechanical Specifications



### MECHANICAL DESCRIPTION

|                         |   |
|-------------------------|---|
| Length                  | 2300mm  |
| Width                   | 1216mm  |
| Area                    | 2.80m <sup>2</sup>                            |
| Module Weight           | 38.4 <sup>7</sup> / 39.7 kg                   |
| Leadwire <sup>6</sup>   | 2.5mm <sup>2</sup> , 650mm (+) & Bulkhead (-) |
| Connectors              | TE Connectivity PV4-S or alternate            |
| Junction Box            | IP68 Rated                                    |
| Bypass Diode            | N/A   |
| Cell Type               | Thin film CdTe semiconductor, up to 268 cells |
| Back Rail Material      | Galvanized steel                              |
| Front Glass             | Heat strengthened                             |
| Back Glass              | Heat strengthened                             |
| Encapsulation           | Laminate material with edge seal              |
| Frame to Glass Adhesive | Silicone                                      |
| Load Rating             | 2400Pa  |

### Certifications & Tests<sup>4</sup>

| CERTIFICATIONS AND LISTINGS   | EXTENDED DURABILITY TESTS   | QUALITY & EHS  |
|---|---|--|
| IEC 61215:2021 & 61730-1:2016 <sup>5</sup> , CE<br>IEC 61701 Salt Mist Corrosion<br>IEC 60068-2-68 Dust and Sand Resistance<br>IEC 62716 Ammonia Corrosion<br>UL 61730 1500V Listed | IEC TS 63209-1 Extended Stress Test<br>Long-Term Sequential<br>Thresher Test<br>PID Resistant | ISO 9001:2015<br>ISO 14001:2015<br>ISO 45001:2018<br>ISO 14064-3:2006<br>EPEAT Silver Registered |



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VEROGY  
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WINDSOR, CT 06095

PV MODULE SPECIFICATION SHEETS

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JRD

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ZC

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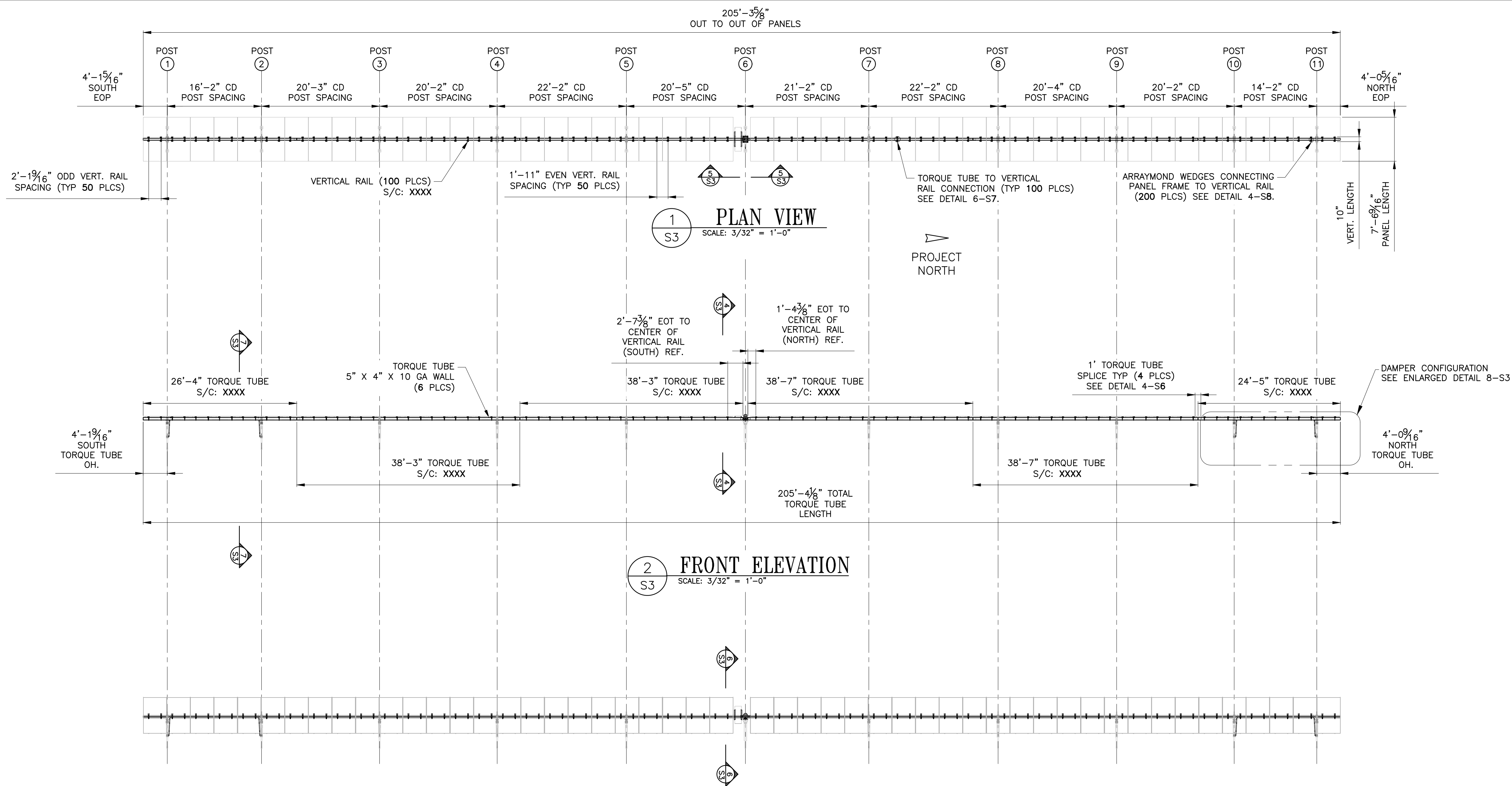
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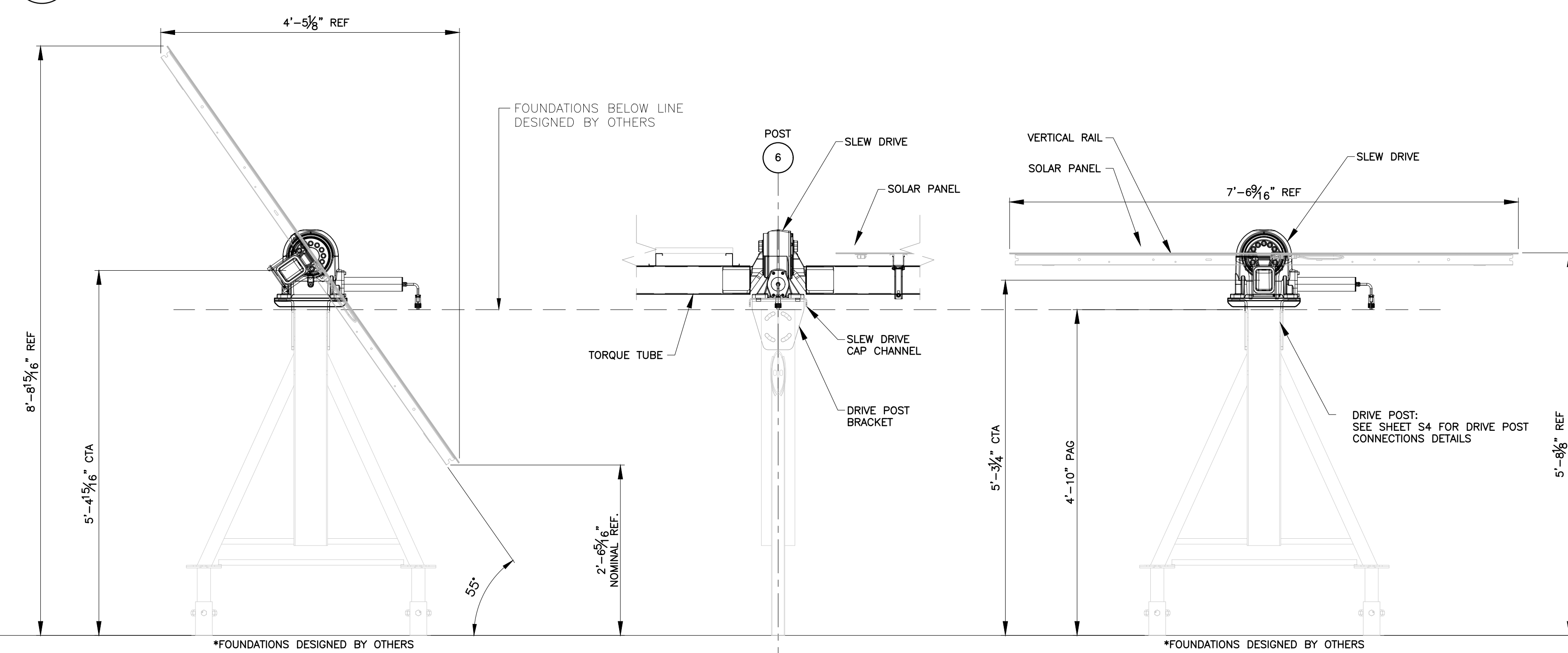






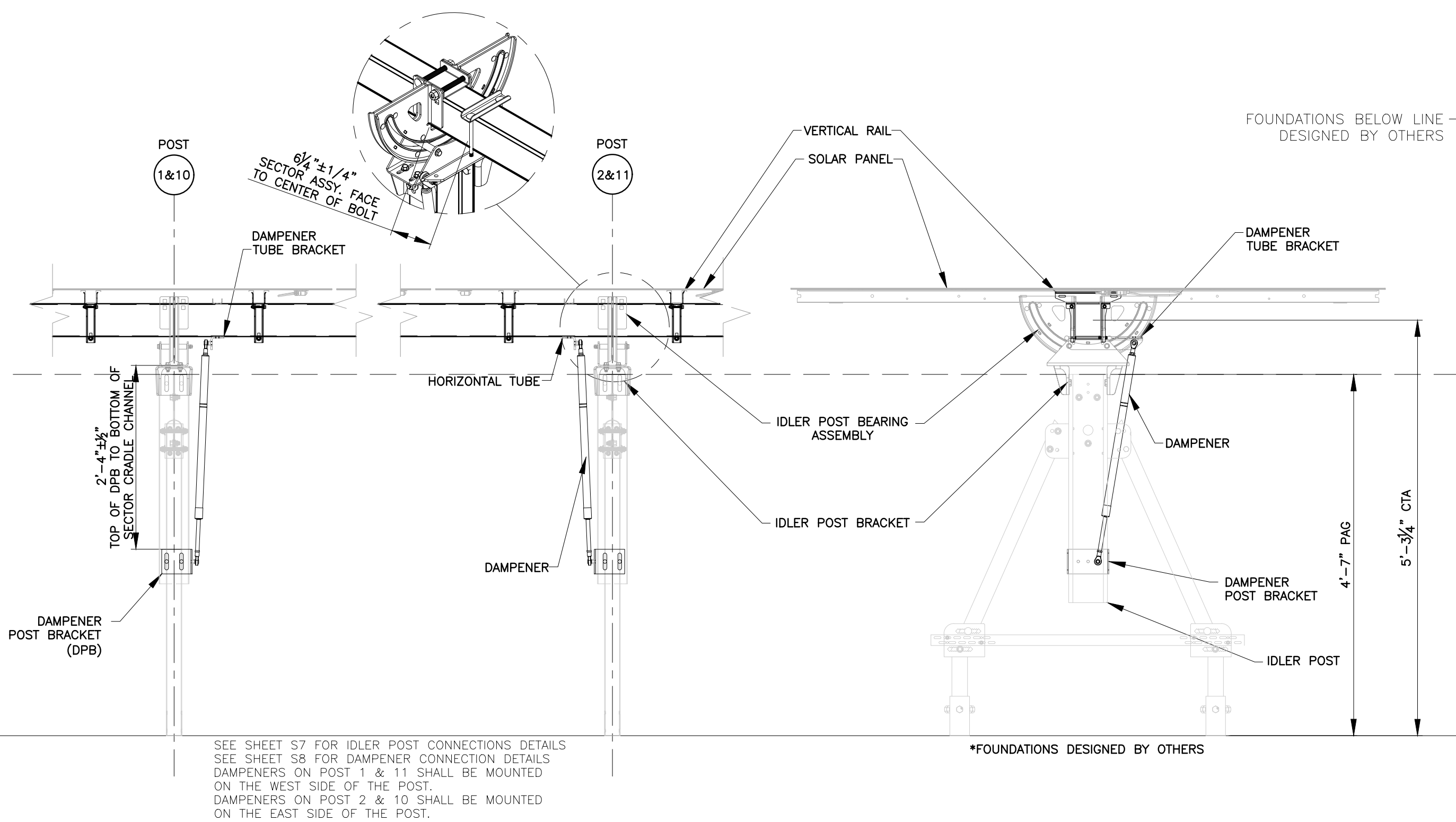


3 FRONT ELEVATION - 55° SCALE: 3/32" = 1'-0"



6 DRIVE POST SECTION VIEW - 55° SCALE: 3/4" = 1'-0"

4 DRIVE POST SECTION VIEW - 0° SCALE: 3/4" = 1'-0"

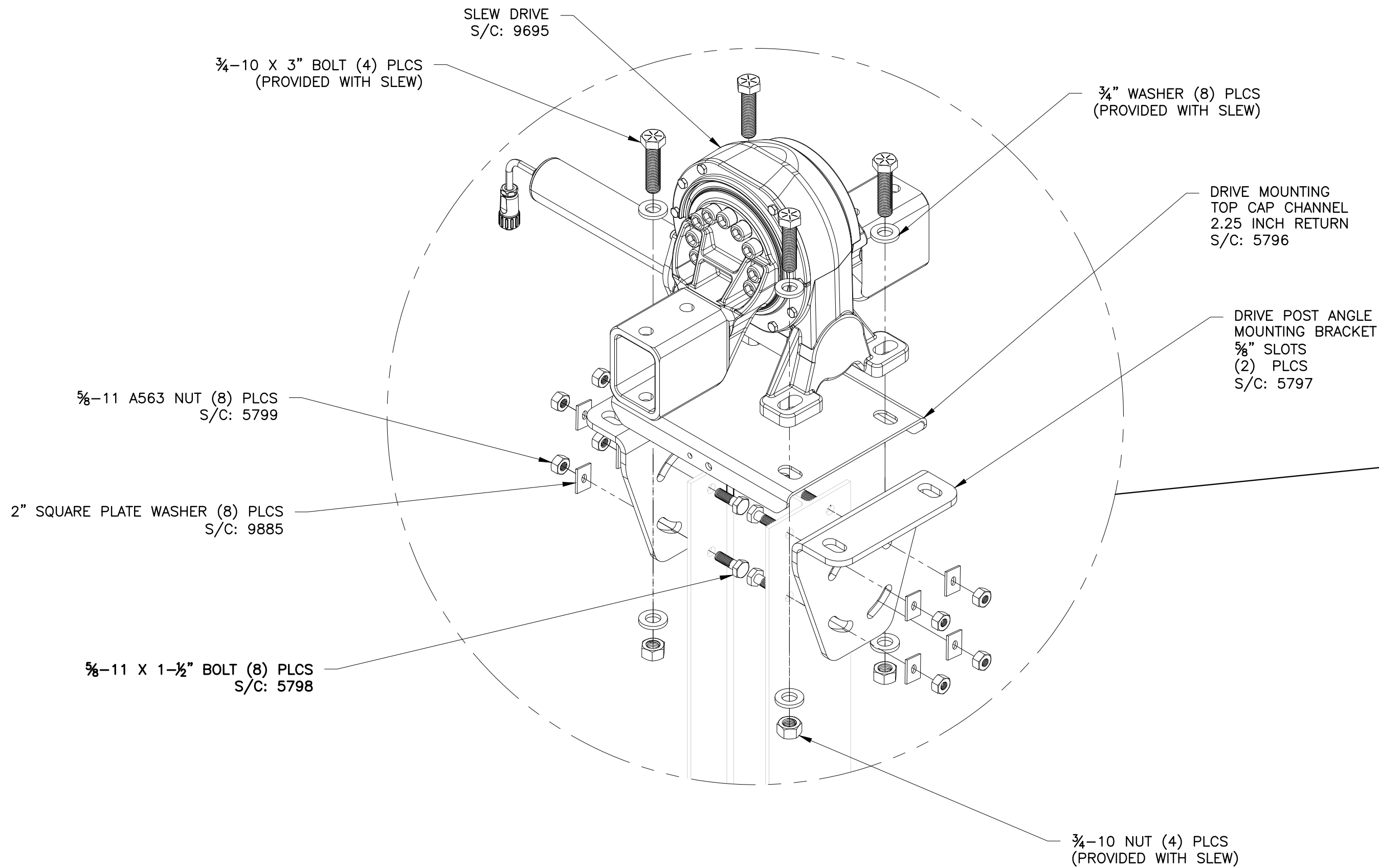


8 DAMPER FRONT ELEVATION DETAIL SCALE: 3/4" = 1'-0"

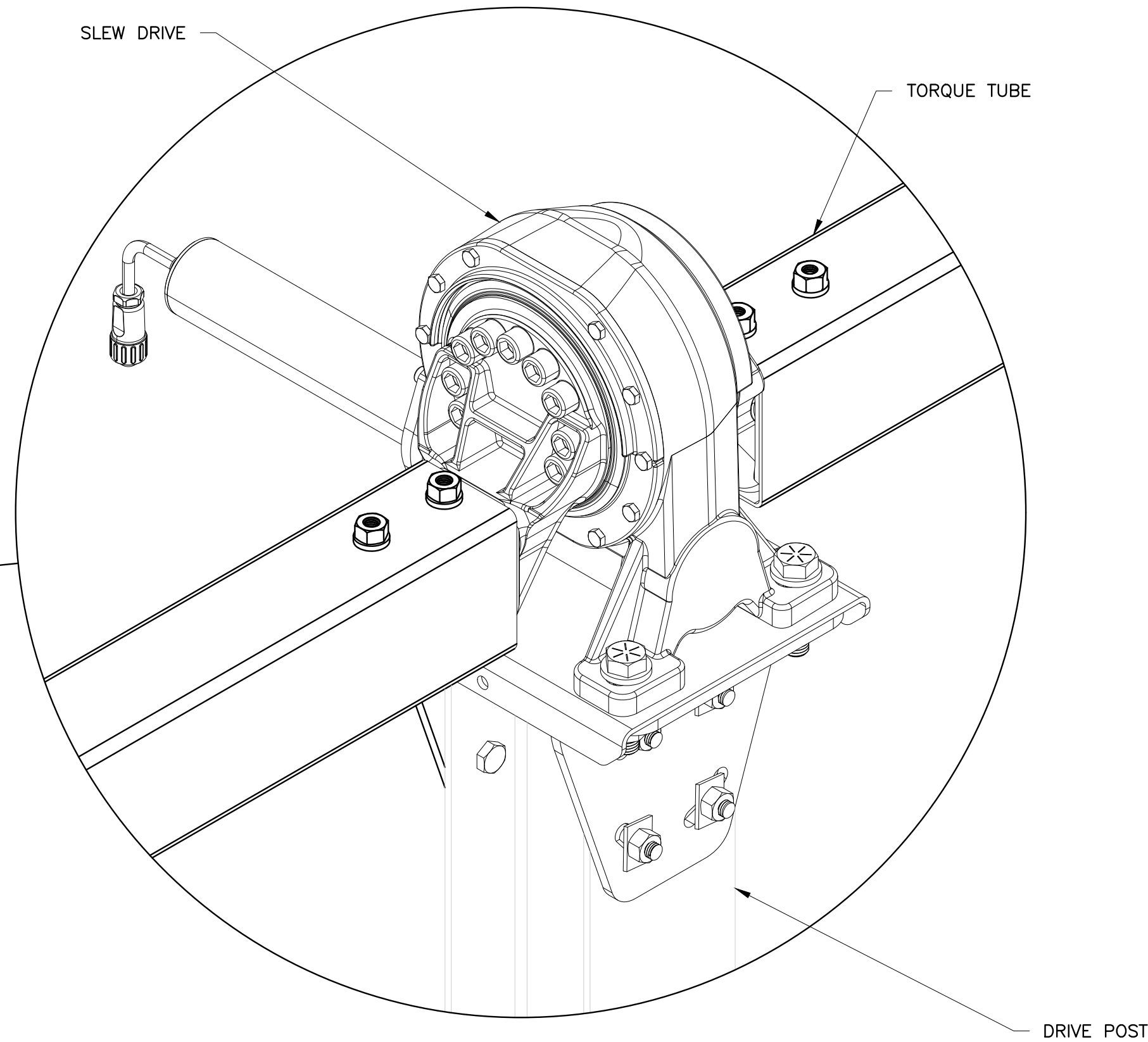
7 IDLER POST DAMPER SECTION VIEW - 0° SCALE: 3/4" = 1'-0"

5 DRIVE POST FRONT ELEVATION VIEW SCALE: 3/4" = 1'-0"

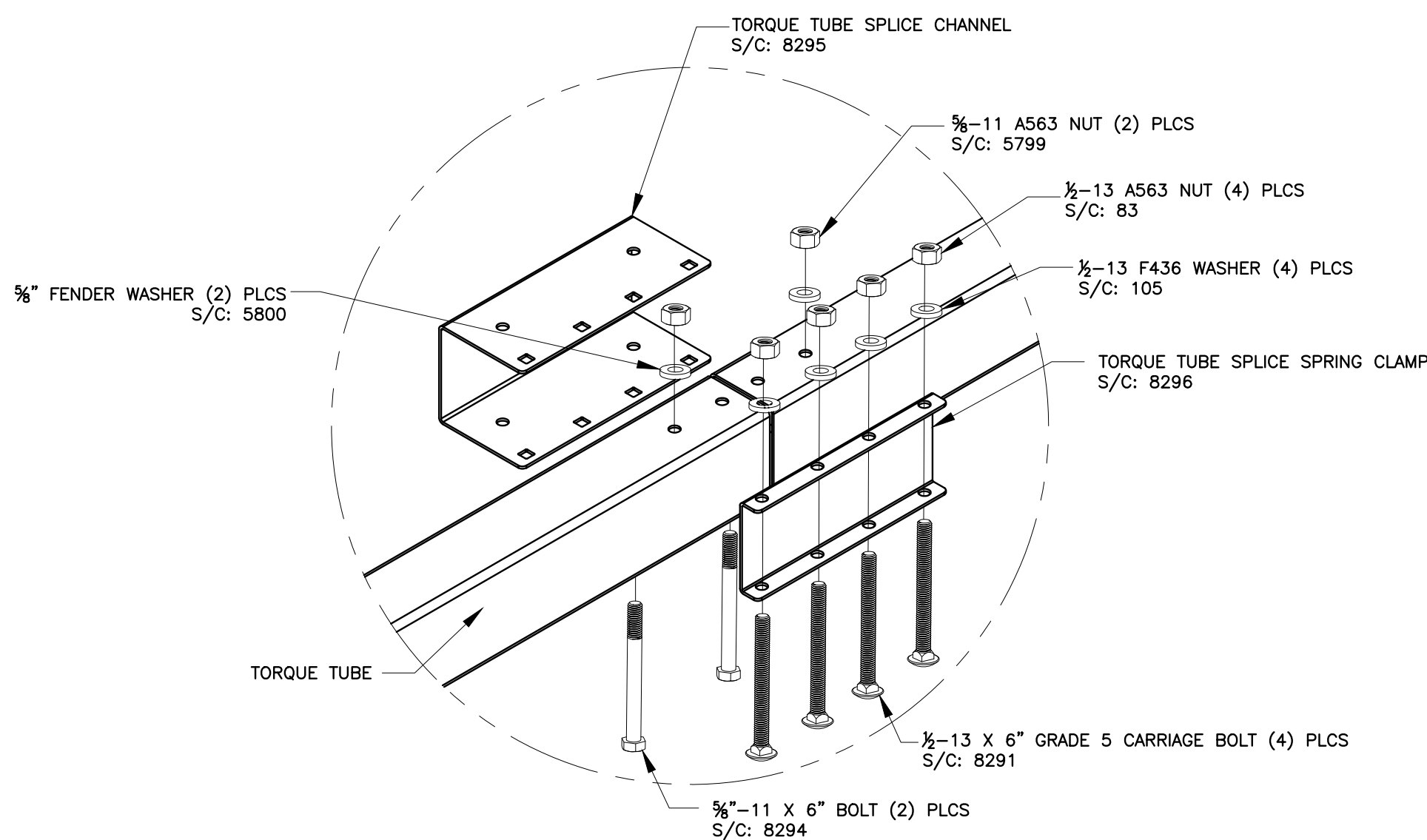




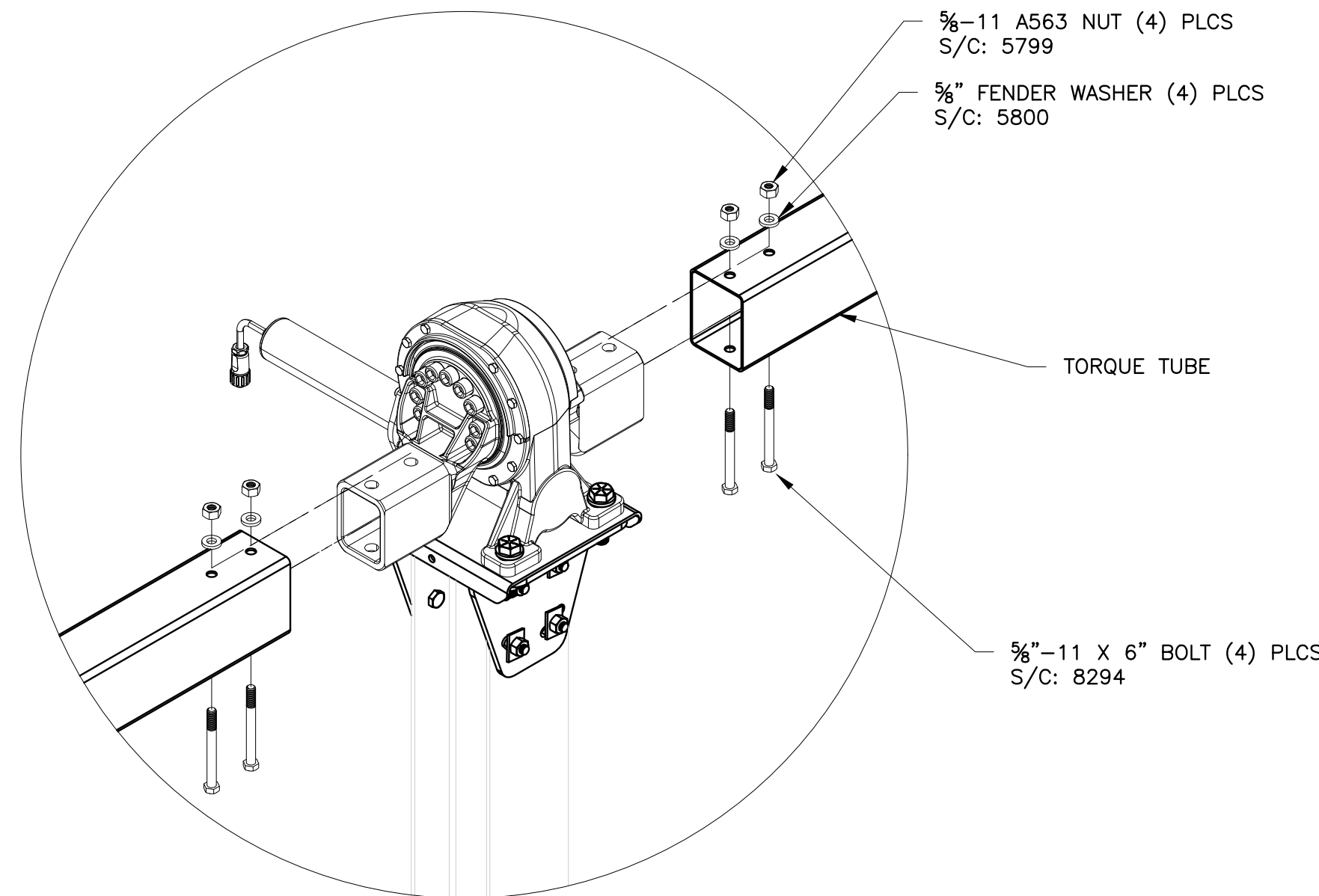
**3 DRIVE POST SLEW DRIVE CONNECTION**  
SCALE: NTS  
TORQUE VALUE:  
100-120 FT-LBS FOR 3/4" BOLTS  
175-200 FT-LBS FOR 3/4" BOLTS



**1 DRIVE POST ISOMETRIC VIEW**  
SCALE: NTS



**4 TORQUE TUBE SPLICE EXPLODED**  
SCALE: NTS  
TORQUE TUBE SPLICE MUST BE ORIENTED WITH THE BOLTS INSTALLED VERTICALLY.  
TORQUE VALUE:  
40-45 FT-LBS FOR 1/2" BOLTS  
65-75 FT-LBS FOR 3/4" BOLTS

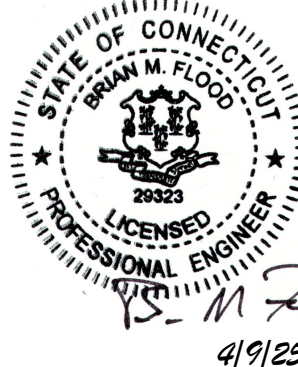


**2 BEAM TO SLEW CONNECTION EXPLODED**  
SCALE: NTS  
CONNECTION MUST BE ORIENTED WITH THE BOLTS INSTALLED VERTICALLY.  
TORQUE VALUE: 100-120 FT-LBS FOR 3/4" BOLTS

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DRIVE POST & SPLICE  
CONNECTION DETAILS

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DATE: 04/09/2025

DRAWN BY: ZC

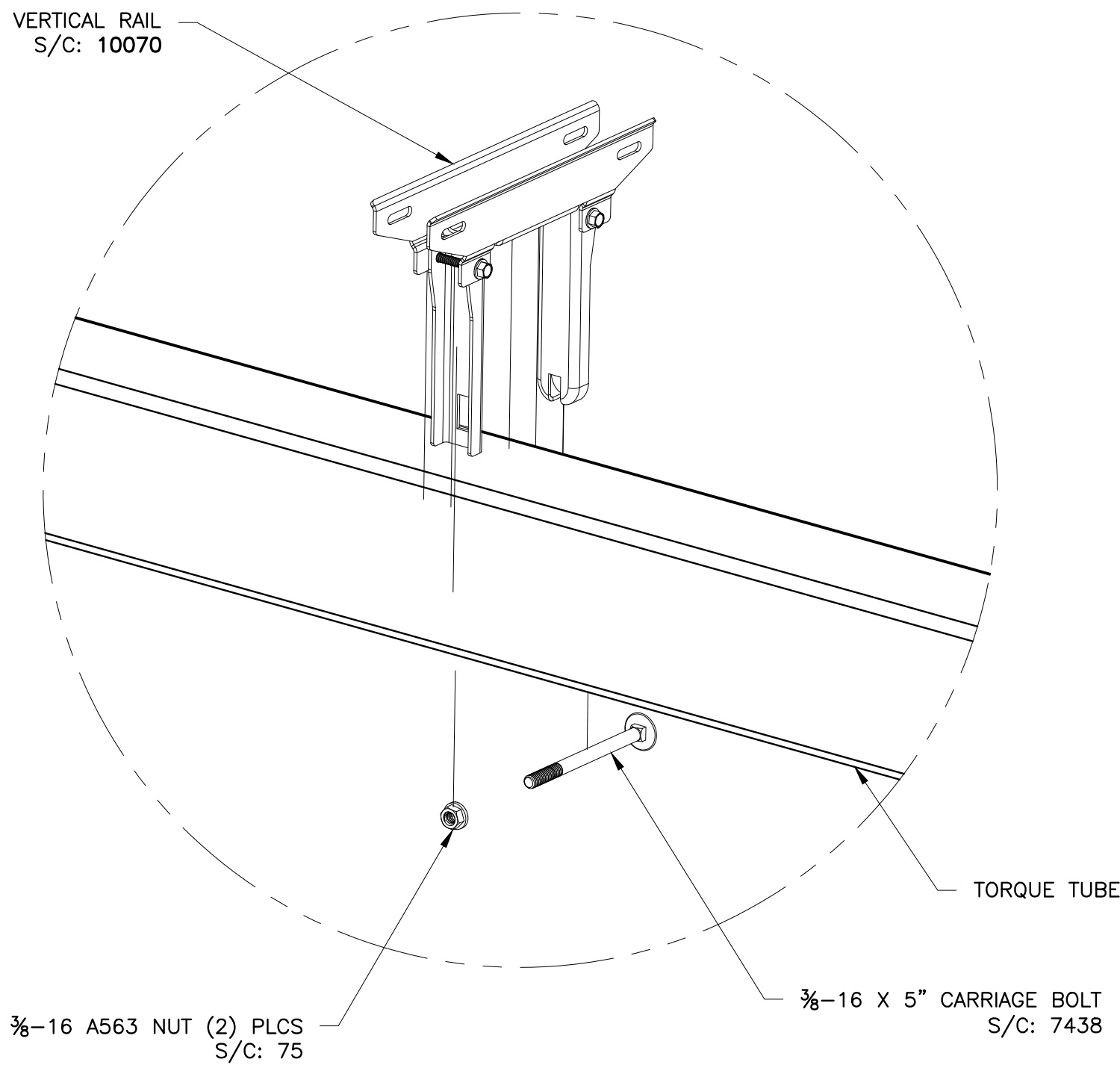
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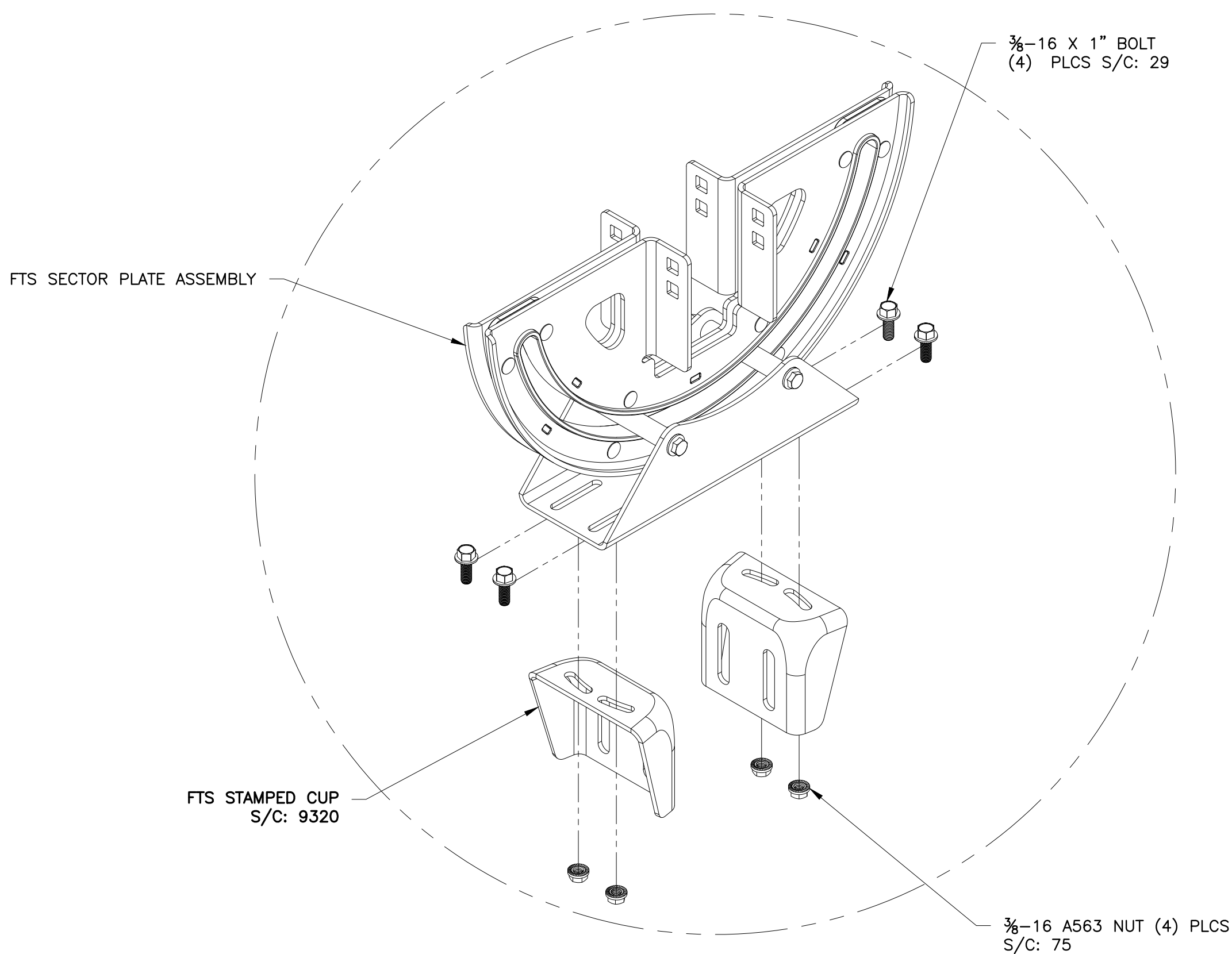




5  
S5

**VERT. RAIL TO TORQUE TUBE EXPLODED**

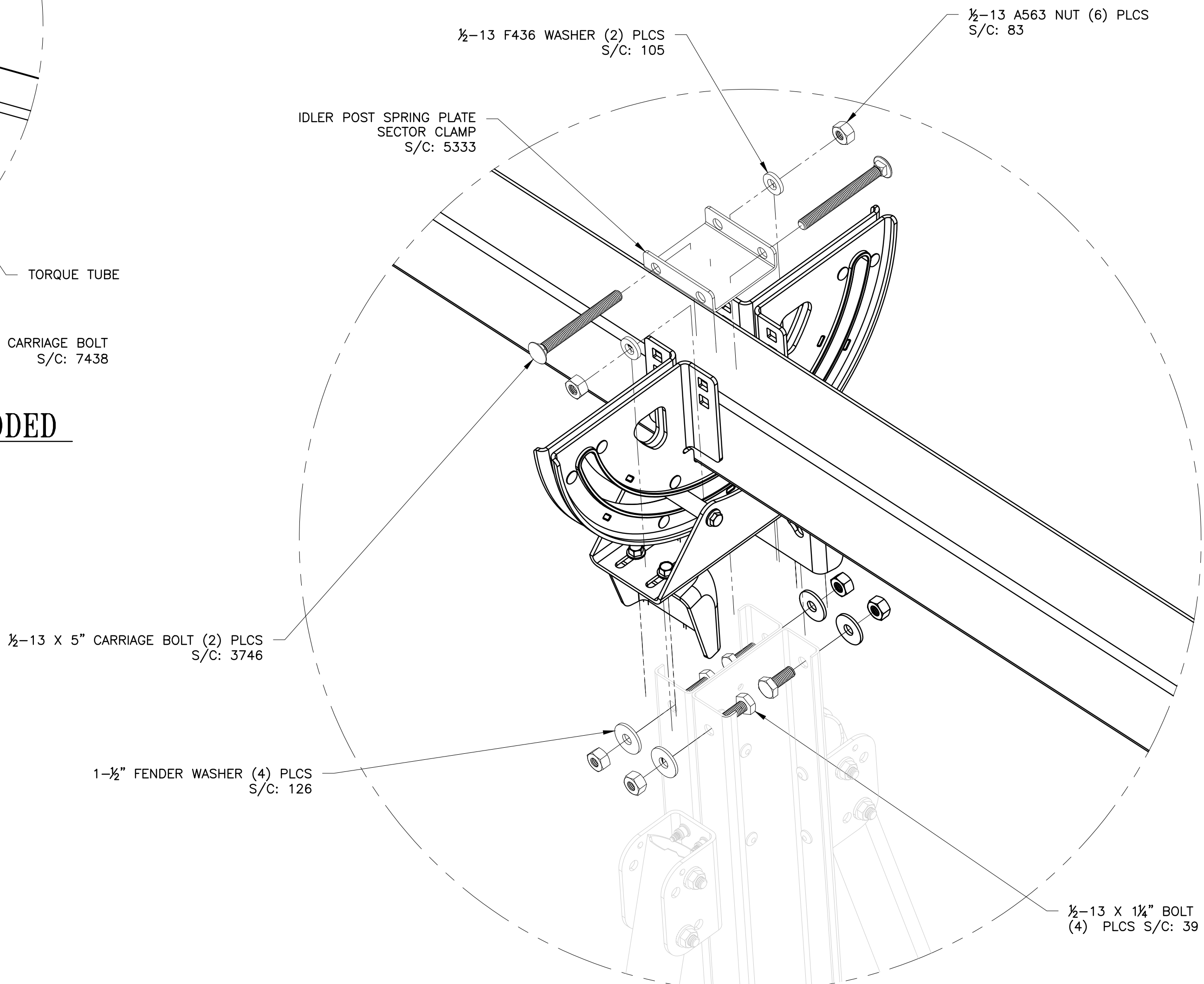
SCALE: NTS  
TORQUE VALUE:  
20-25 FT-LBS FOR 3/8-16 BOLTS



3  
S5

**IDLER BEARING ASSEMBLY EXPLODED**

SCALE: NTS  
TORQUE VALUE:  
20-25 FT-LBS FOR 3/8-16 BOLTS

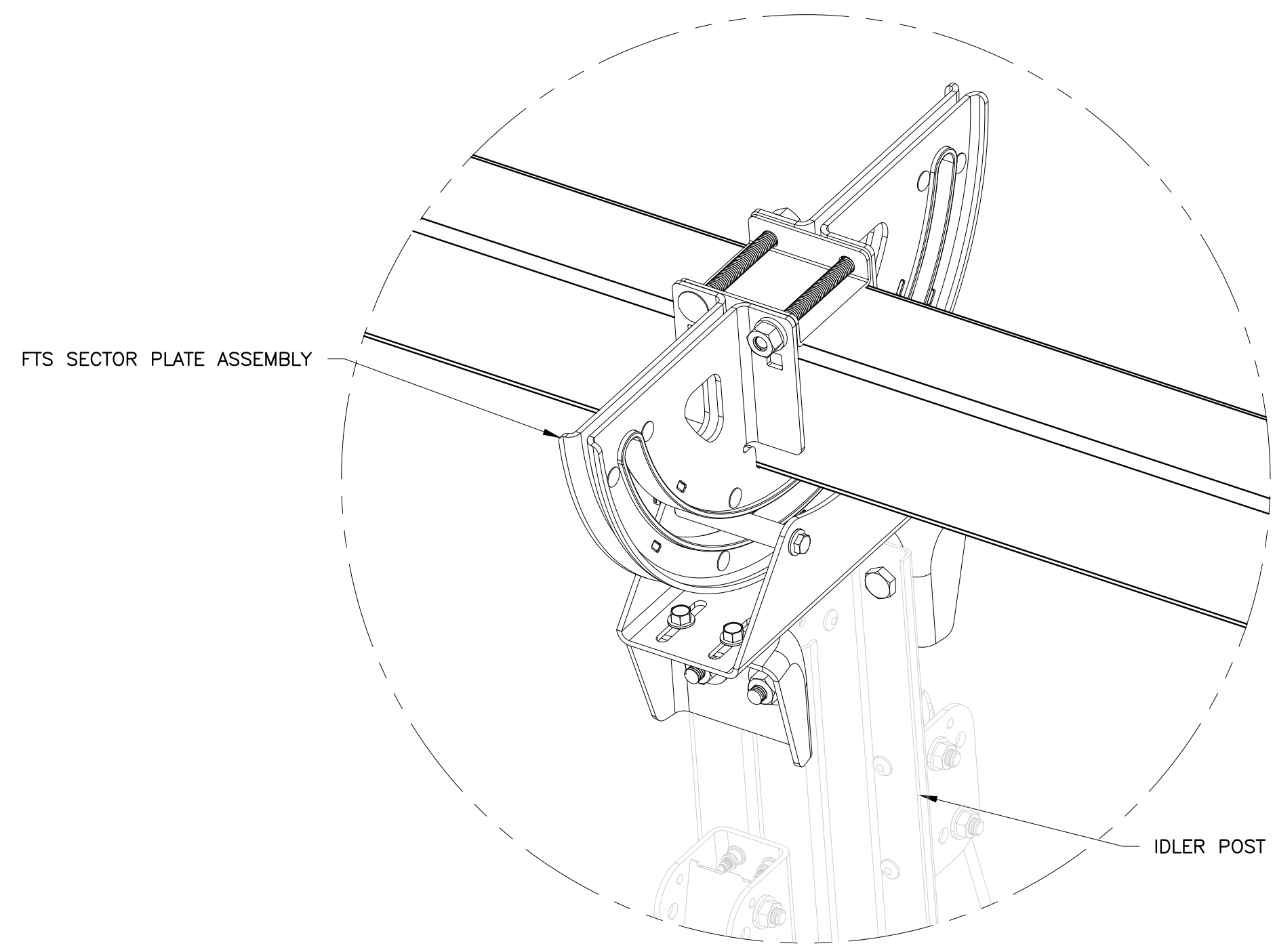


3  
S5

**IDLER POST TO BEARING ASSEMBLY EXPLODED**

SCALE: NTS  
TORQUE VALUE:  
90-100 FT-LBS FOR 1/2-13 X 1 1/4" BOLTS  
25-30 FT-LBS FOR 1/2-13 X 5" CARRIAGE BOLTS

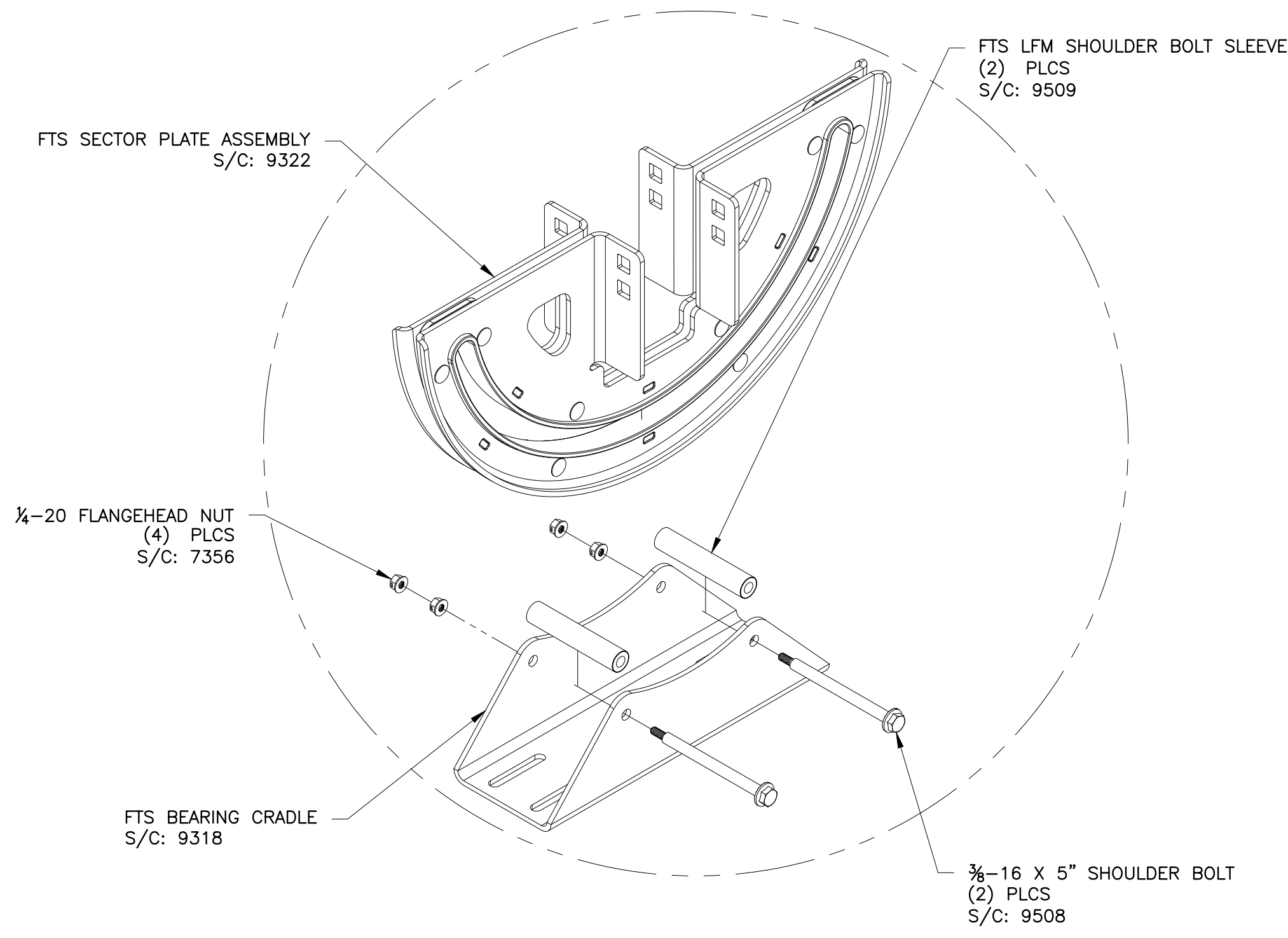
\*SPRING PLATE TO BE INSTALLED IN TOP SET OF HOLES  
\*ALL PLIES WITHIN THE CONNECTION SHALL BE PULLED INTO FIRM CONTACT BY THE BOLTS IN THE JOINT



1  
S5

**IDLER POST ISOMETRIC VIEW**

SCALE: NTS

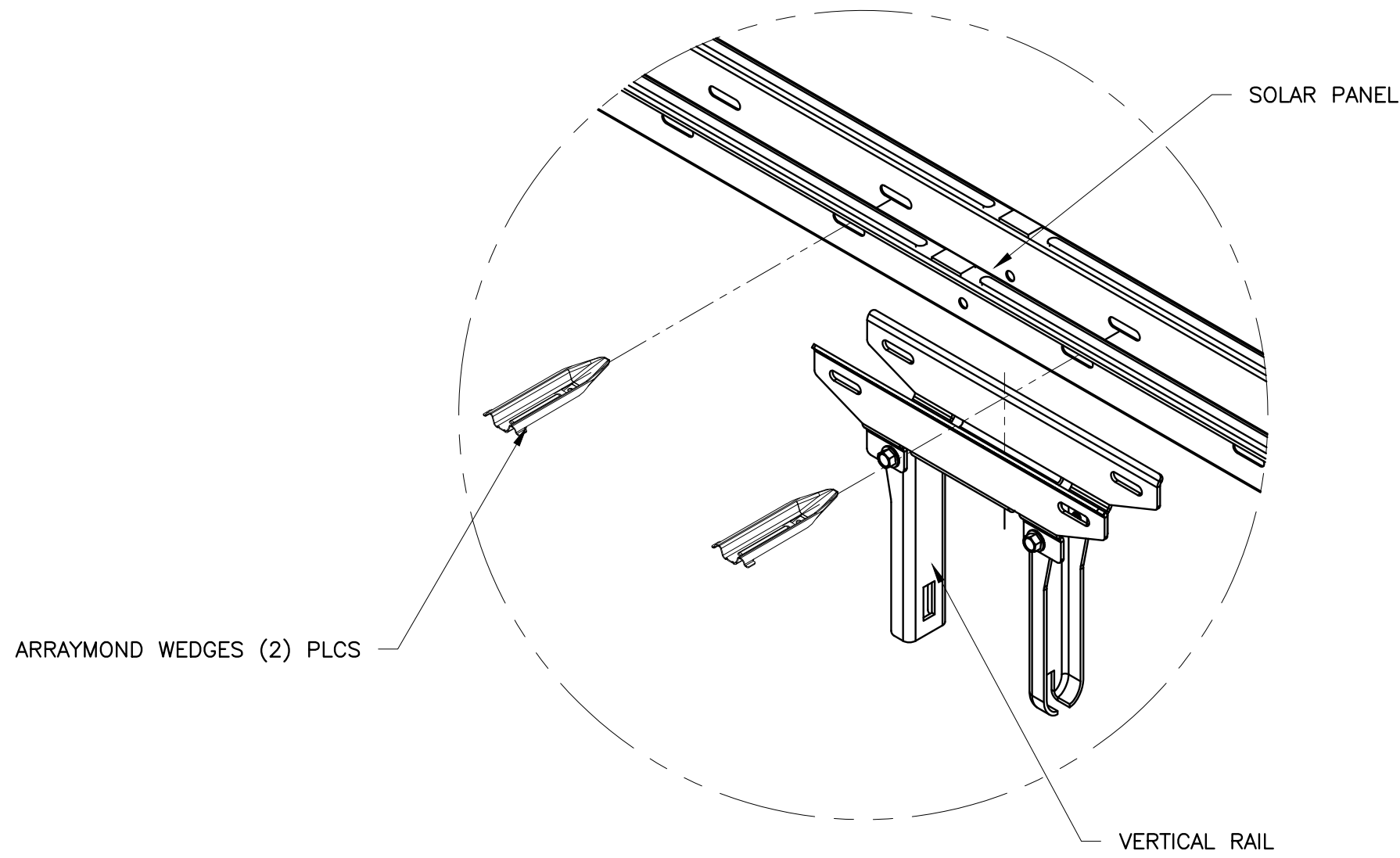


2  
S5

**BEARING CRADLE ASSEMBLY EXPLODED**

SCALE: NTS  
SHOULDER OF BOLT MUST EXTEND THROUGH BOTH FACES OF THE SECTOR CRADLE CHANNEL, SUCH THAT NO FORCE IS BEING EXERTED VERTICALLY ON THE THREADS.

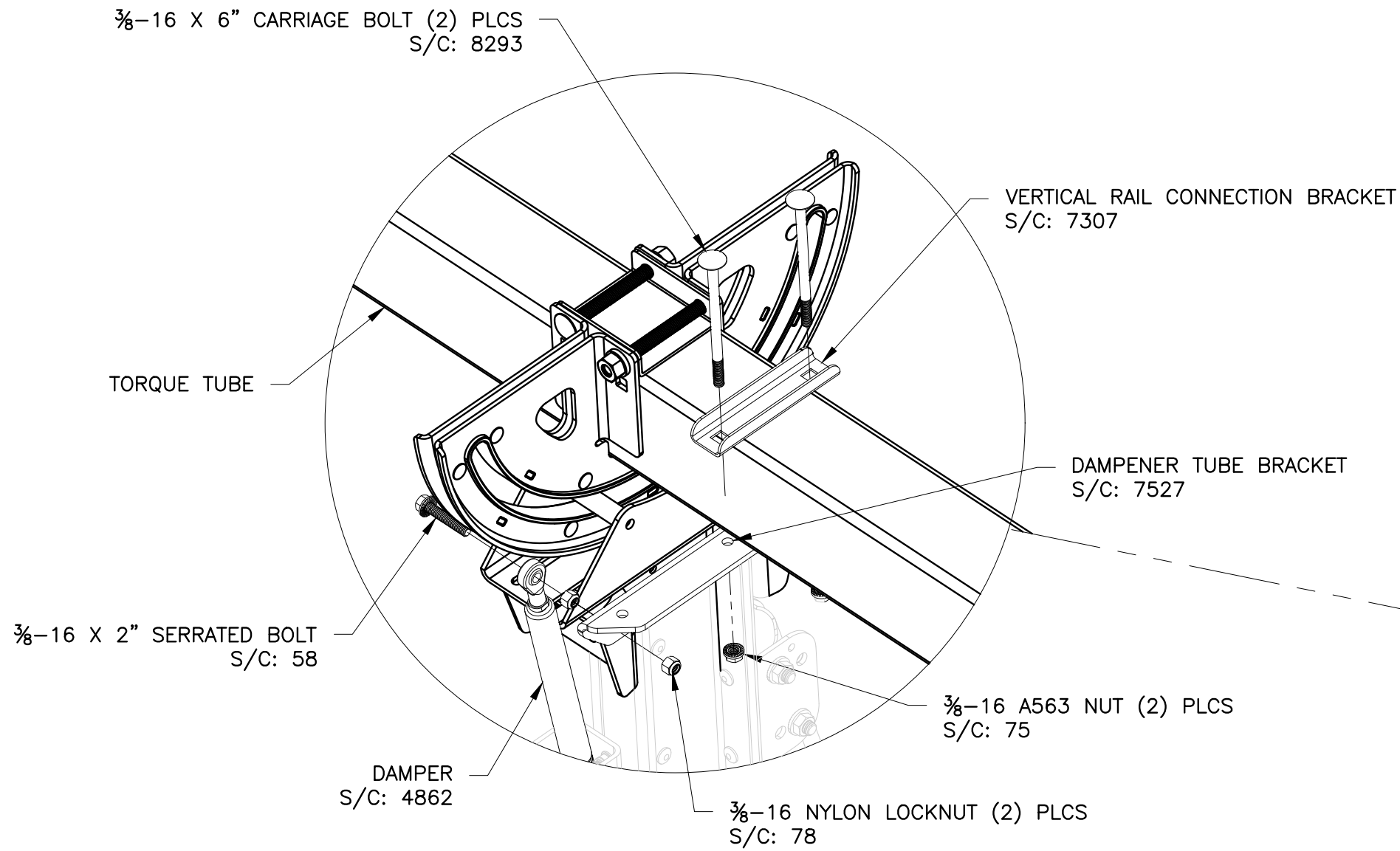




4  
S6

SOLAR PANEL TO VERT. RAIL CONN. EXPLODED

SCALE: NTS

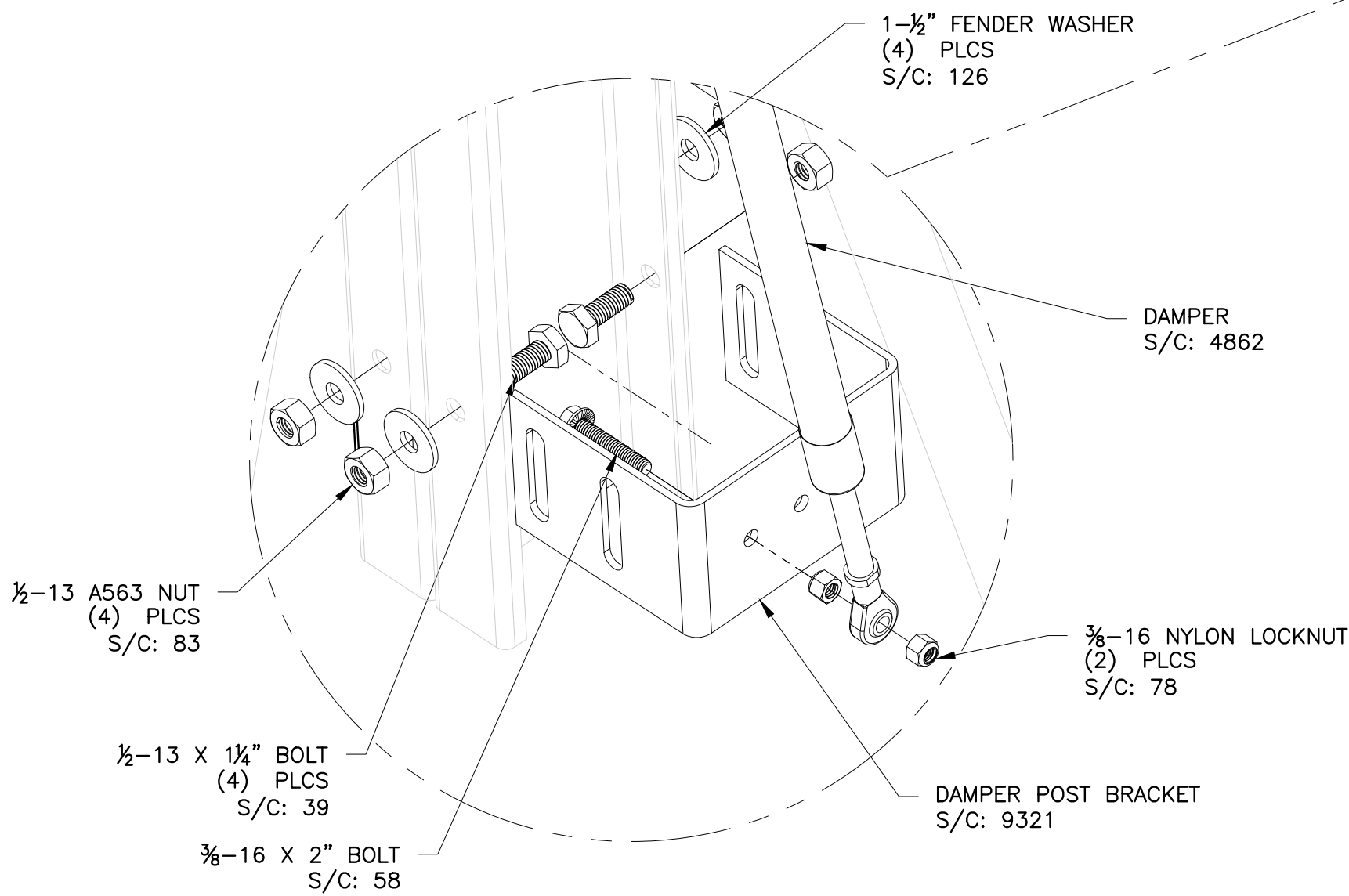


2  
S6

DAMPER CONNECTION TO TUBE EXPLODED

SCALE: NTS

TORQUE VALUE:  
10-12 FT-LBS FOR 3/8-16 SERRATED BOLTS  
20-25 FT-LBS FOR 3/8-16 CARRIAGE BOLTS



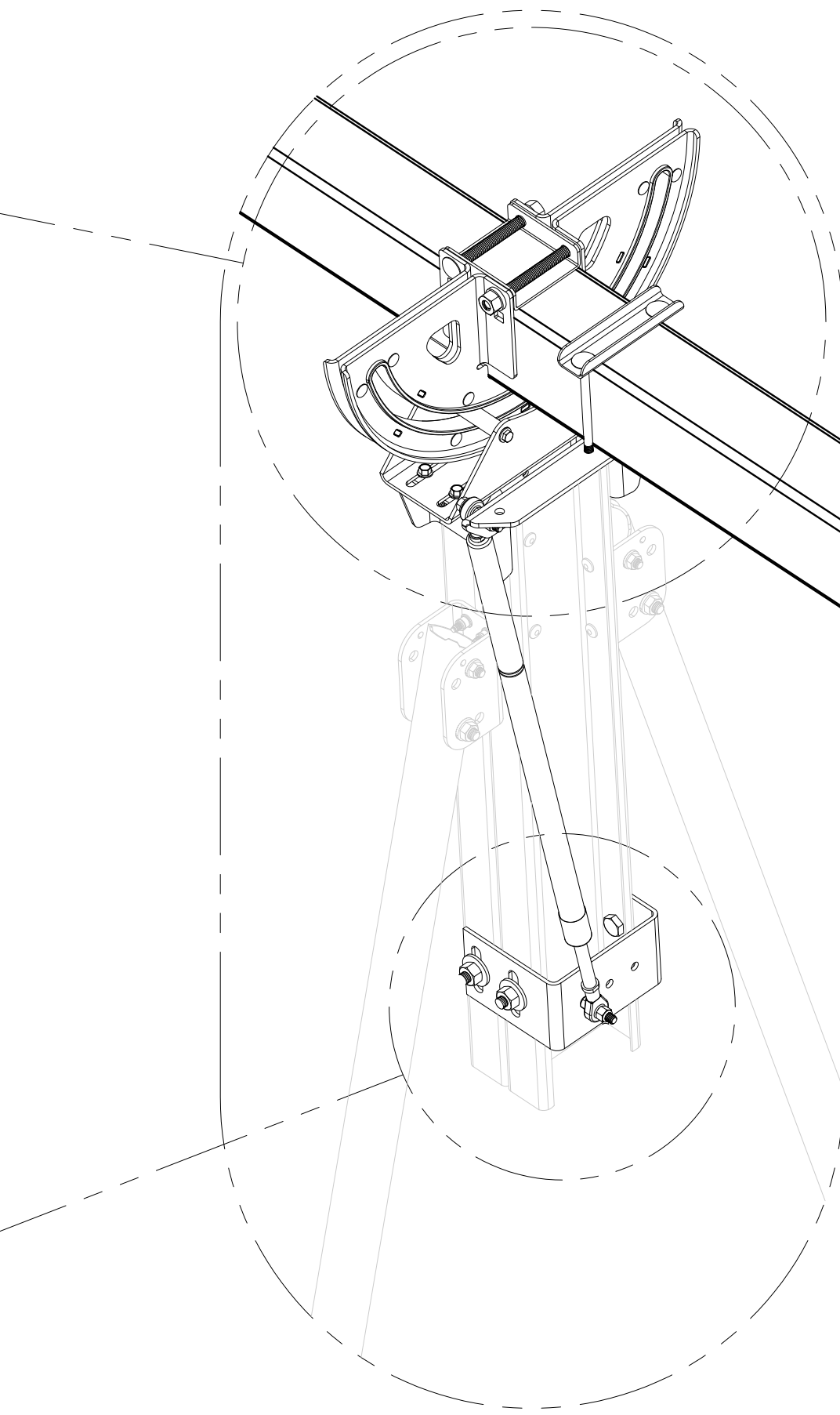
3  
S6

DAMPER CONNECTION TO POST EXPLODED

SCALE: NTS

TORQUE VALUE:  
90-100 FT-LBS FOR 1/2" BOLTS  
10-12 FT-LBS FOR 3/8-16 BOLTS

FIRST 3/8"-16 NYLON LOCK NUT MUST BE TIGHTENED TO  
SNUG TIGHT PRIOR TO THE INSTALLATION OF THE DAMPENER IN THE POST BRACKET.



1  
S6

DAMPER CONNECTION ISOMETRIC VIEW

SCALE: NTS



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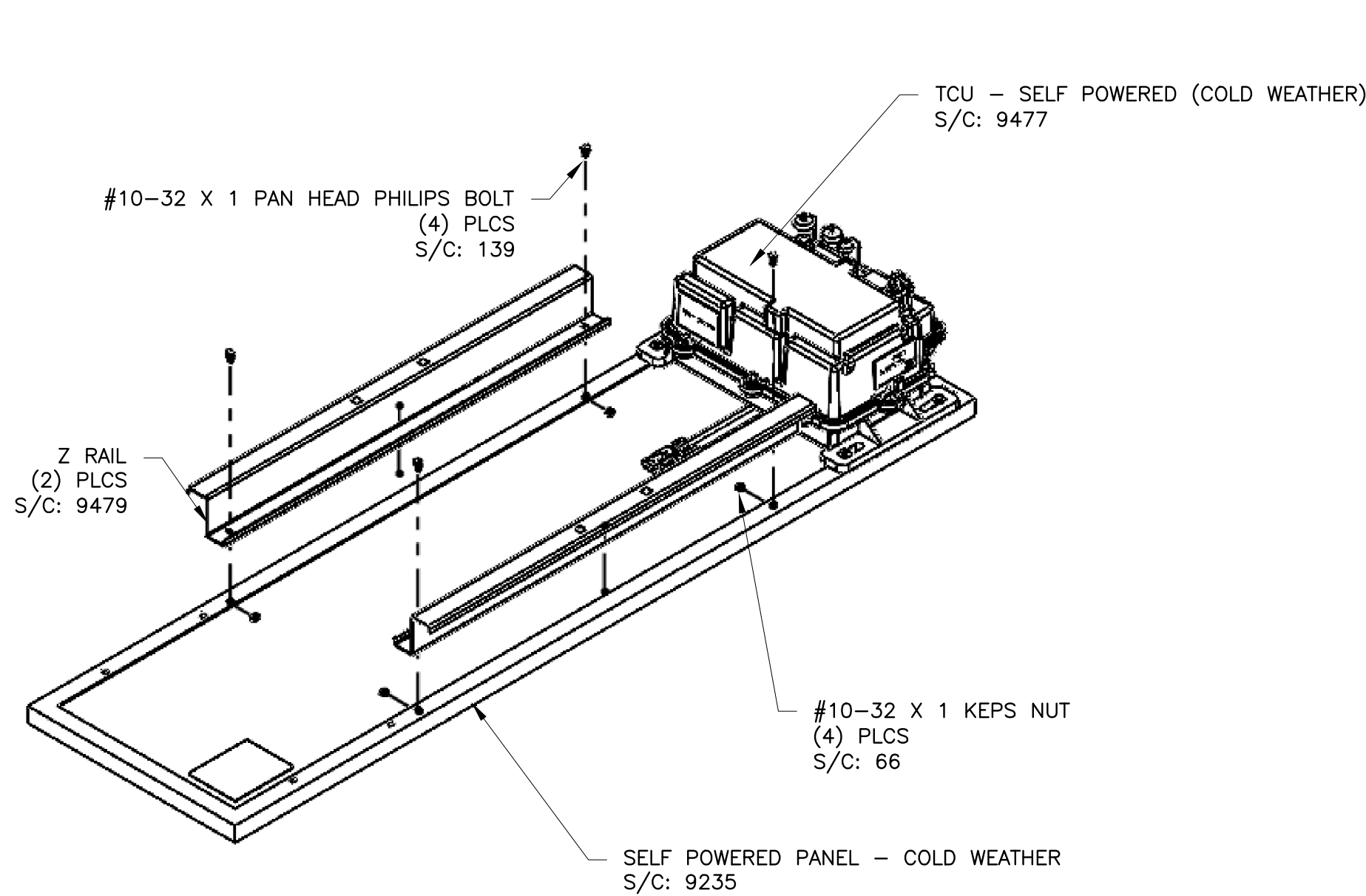
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DAMPER & PANEL  
CONNECTION DETAILS

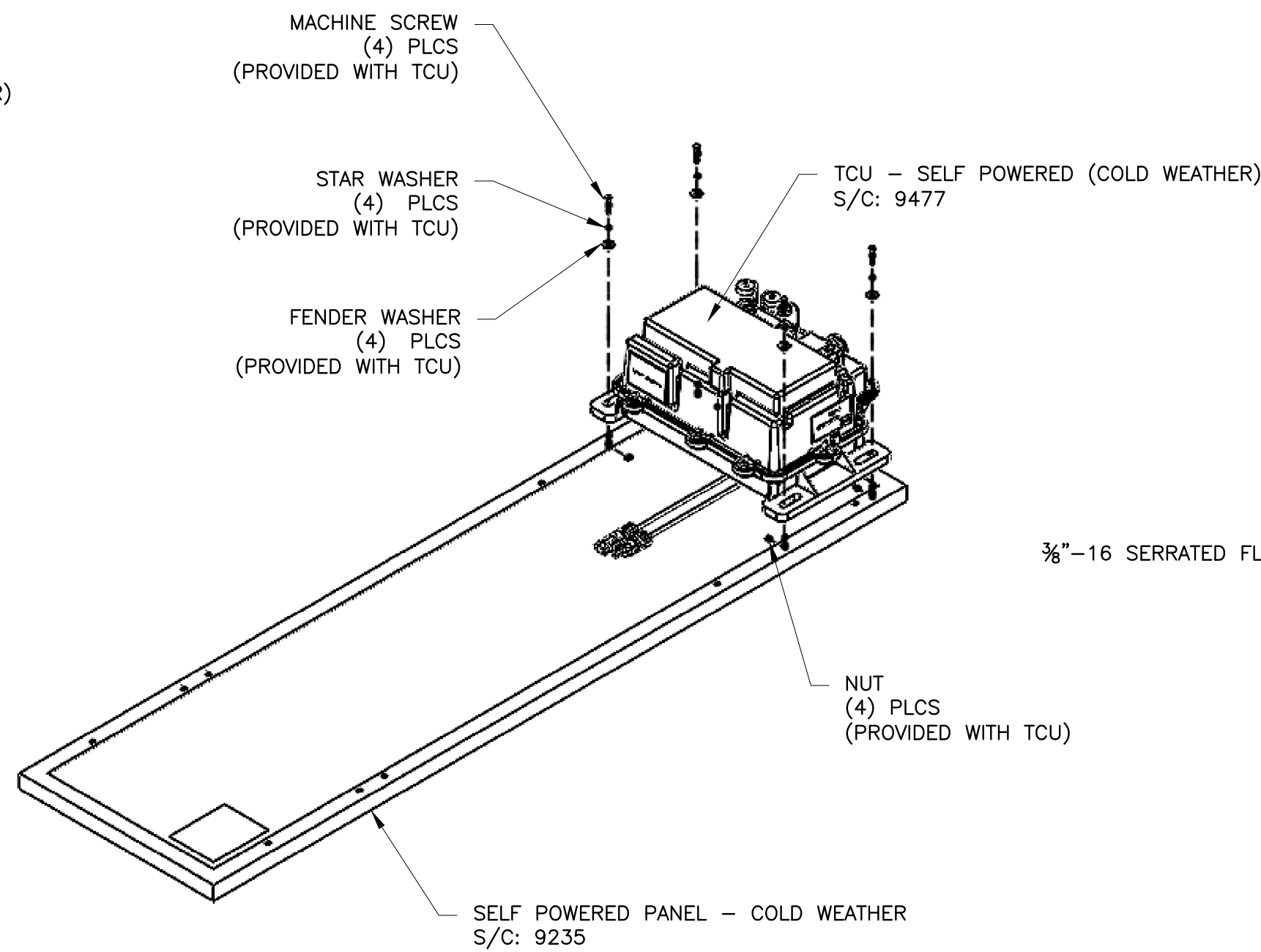
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SHEET  
**S6**

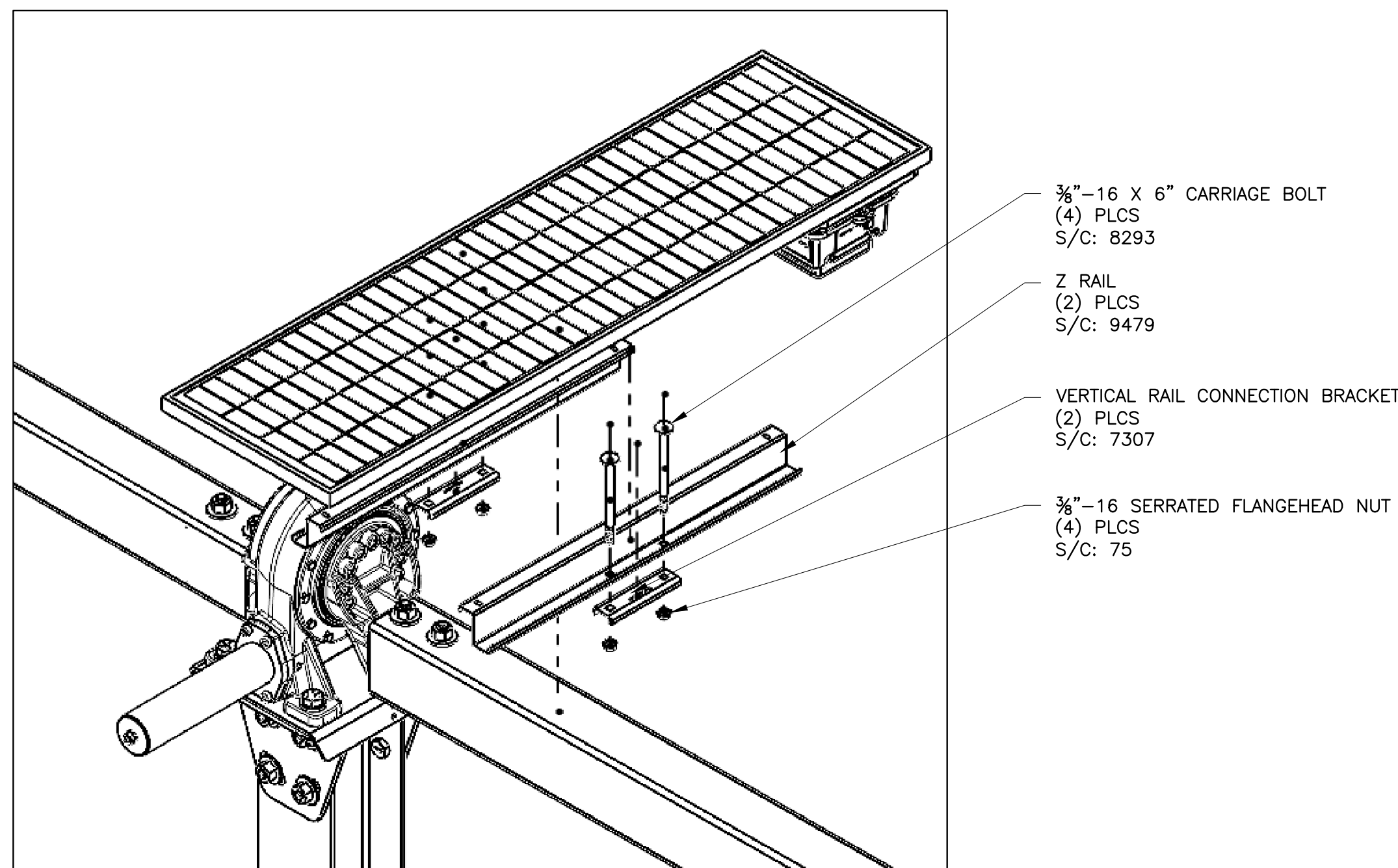




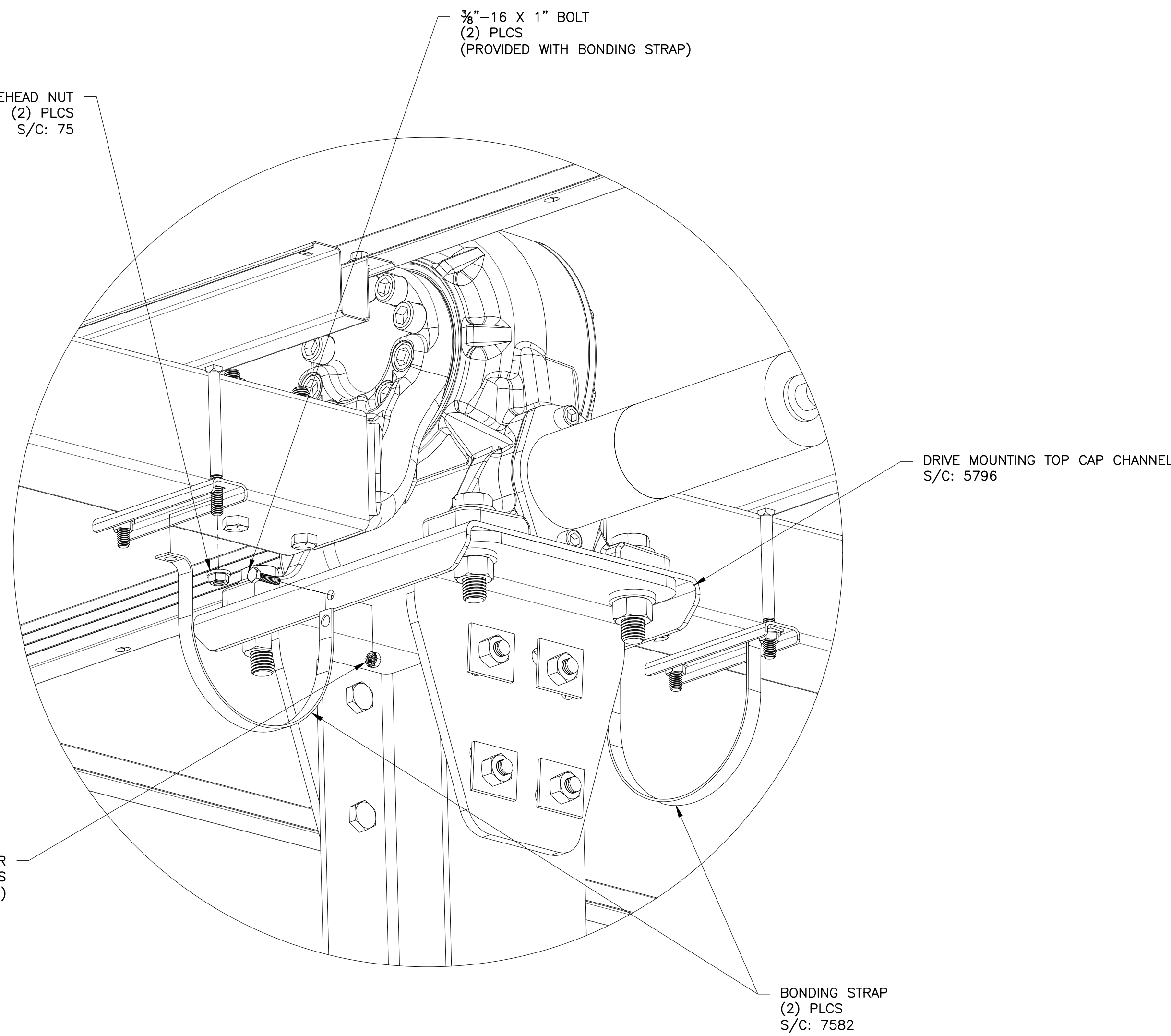
3 Z RAIL TO PANEL CONNECTION  
SCALE: NTS



2 TCU TO PANEL CONNECTION  
SCALE: NTS



4 SELF POWERED PANEL TO TORQUE TUBE CONNECTION  
SCALE: NTS  
TORQUE VALUE:  
20-25 FT-LBS FOR 3/8-16 CARRIAGE BOLT



1 BONDING STRAP CONNECTION ISOMETRIC VIEW  
SCALE: NTS  
TORQUE VALUE:  
5-6 FT-LBS FOR 3/8-16 X 1" BOLT (BONDING STRAP HARDWARE)  
20-25 FT-LBS FOR 3/8-16 CARRIAGE BOLT  
\*BONDING STRAP MAY BE CONNECTED TO THE SELF POWERED Z RAILS ON EACH SIDE OF THE SLEW DRIVE USING THE 3/8-16 SERRATED FLANGEHEAD NUT

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TCU COMPONENTS AND CONNECTION  
DETAILS

VEROGY  
WINDSOR SOLAR ONE  
WINDSOR, CT 06095

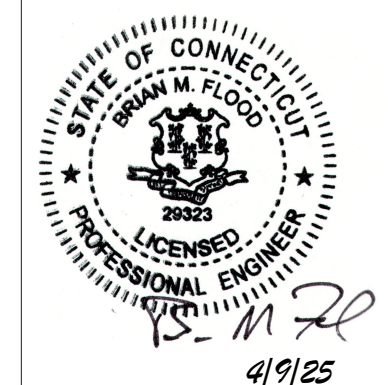
| REV | DESCRIPTION | DATE |
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|     |             |      |

CUSTOMER:  
DATE: 04/09/2025  
DRAWN BY: ZC  
CHECK BY: JRD  
PAGE: S7 of S9

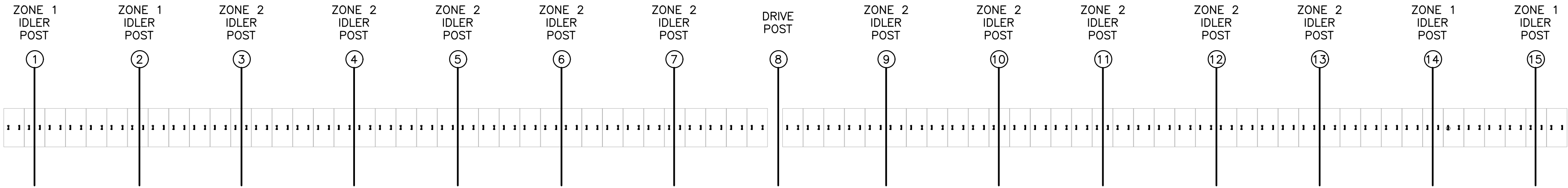
19097

SHEET

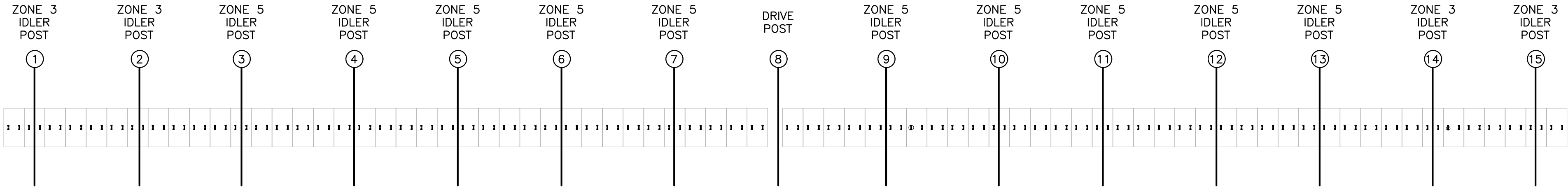
S7



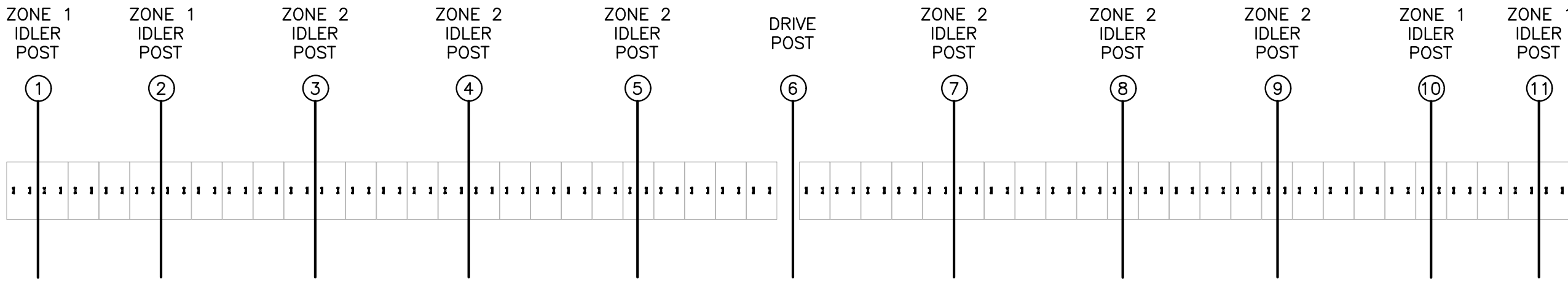




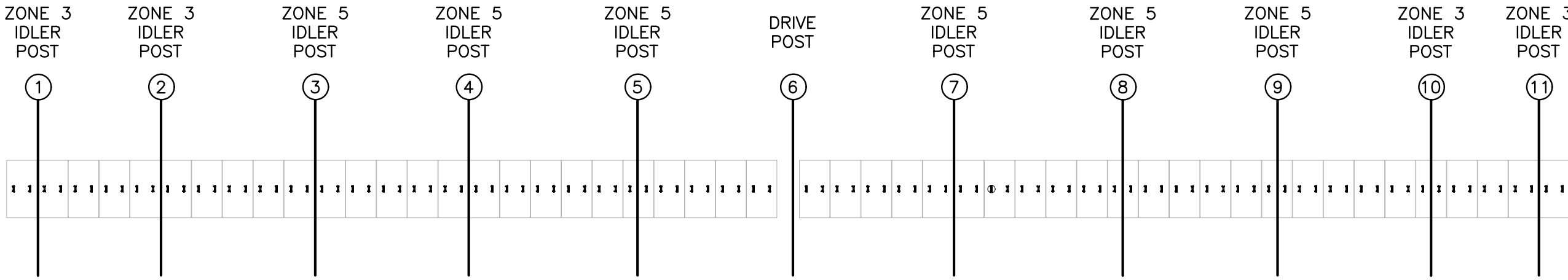
1 PLAN VIEW 1X75 (EXTERIOR)  
SCALE: NTS



2 PLAN VIEW 1X75 (INTERIOR)  
SCALE: NTS



3 PLAN VIEW 1X50 (EXTERIOR)  
SCALE: NTS



4 PLAN VIEW 1X50 (INTERIOR)  
SCALE: NTS

NOTES:  
1. WORK THIS SHEET WITH SHEETS S2–S3, S9.

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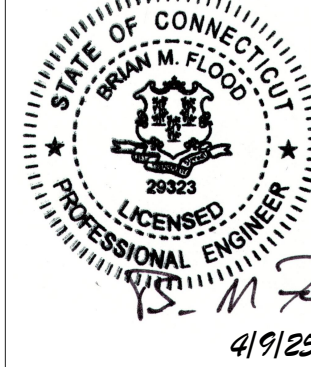
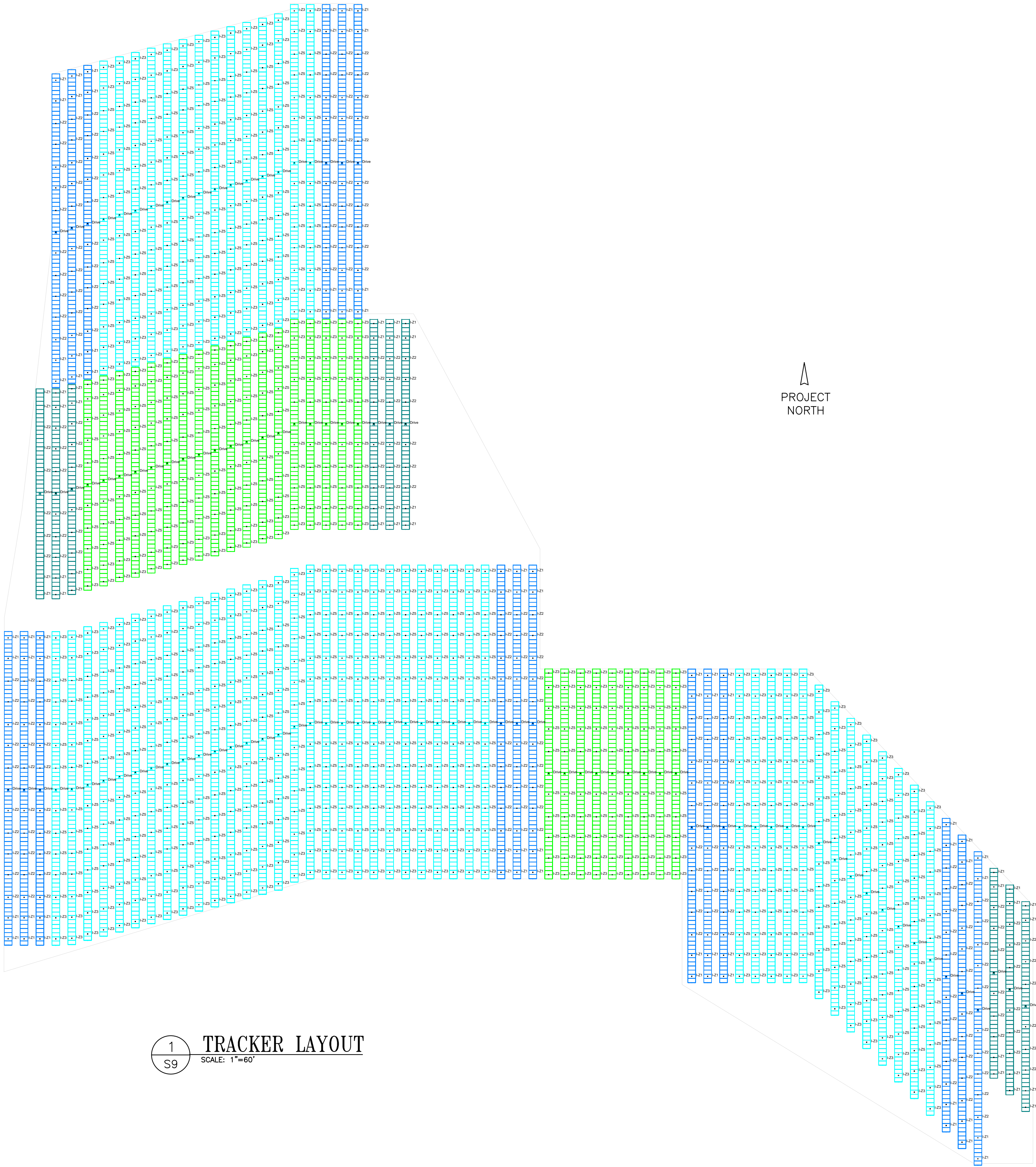
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Cleveland, OH 44122

TCU COMPONENTS AND CONNECTION  
DETAILS

VEROGY  
WINDSOR SOLAR ONE  
WINDSOR, CT 06095



- NOTES:
1. WORK THIS SHEET WITH SHEETS S2–S3 & S8.
  2. FINAL POST LOCATIONS ARE THE RESPONSIBILITY OF THE SURVEYOR OF RECORD (OTHERS).
  3. INTERIOR AND EXTERIOR TRACKER LOCATIONS ARE BASED ON LAYOUT PROVIDED TO FLEXRACK BY CUSTOMER.
  4. LOCATIONS INDICATED FOR EACH POST TYPE ARE BASED ON LAYOUT & TOPOGRAPHY PROVIDED TO FLEXRACK BY CUSTOMER.
  5. FLEXRACK TO BE NOTIFIED IF ADDITIONAL SITE SURVEY IS COMPLETED.
  6. FLEXRACK TO BE NOTIFIED OF ANY MODIFICATIONS TO THE LAYOUT AS SHOWN.
  7. FLEXRACK IS NOT RESPONSIBLE FOR ANY LAYOUT MODIFICATIONS DONE DURING CONSTRUCTION.



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TRACKER LAYOUT  
(BY OTHERS)

VEROGY  
WINDSOR SOLAR ONE  
WINDSOR, CT 06095

|           |                  |               |                |
|-----------|------------------|---------------|----------------|
| CUSTOMER: | DATE: 04/09/2025 | CHECK BY: JRD | SHEET: 19097   |
|           | DRAWN BY: ZC     |               | PAGE: S9 of S9 |