

| TABLE OF CONTENTS | | |
|-----------------------|-------|--|
| TITLE | SHEET | |
| REACT®350 TL-2 SYSTEM | 2 | |
| BASETRACK | 3 | |
| BACKUP/BASETRACK | 4 | |
| CONCRETE PAD | 5 | |
| STABILIZER CHAIN | 6 | |
| REFLECTIVE NOSE | 7 | |
| REFLECTOR ASSY | 8 | |
| RESTRAINING CABLE | 9 | |
| TRANSITION ASSEMBLY | 10 | |

GENERAL NOTES

REACT[®]350 SYSTEM (Temporary) S102-4106

- The energy absorbing system represented on these Qualified Products List (QPL) drawings is a proprietary design by Energy Absorption Systems, of Trinity Industries, Inc., and marketed under the name REACT® 350 (TL-2) System.
- 2. The REACT®350 (TL-2) is a non-gating, redirective crash cushions which is well suited for use shielding hazards. The REACT®350 (TL-2) is used for temporary installations. The beginning length of need shall be at the point of intersection between the face of the crash cushion and the departure line.
- 3. The REACT®350 is a Test Level 2 crash cushion applications.
- 4. The REACT®350 shall be assembled and installed in accordance with the manufacturer's detailed drawings, procedures, specifications and installation guide. Information and copies of the above manual are available on the Qualified Products List (QPL).
- 5. The REACT® 350 is available in a 36" nominal width. The system width will be as called out in the plans, permit or other contract document for each location.
- Metallic components shall meet the galvanizing requirements for guardrail, section 967 of the FDOT specifications.
- 7. A yellow Type 1 Object Marker shall be centered 3' in front of the nose of the REACT®350. Mounting hardware shall be in conformance with index no. 11860. The cost of the Object Marker shall be included in the cost of the REACT®350. As an option, the contractor may install reflective sheeting on the nose of the crash cushion. The sheeting to be used must be solid yellow, Type III or better and must be a product listed on the Department's Qualified Products List (QPL). The sheeting to be applied to the nose of the crash cushion shall be a minimum of 360 square inches with a minimum height of 15 inches.
- Quantity for payment is based on each independent location as called for in the plans or as directed by the Engineer. The cost of foundations, subgrade preparation and other appurtenant construction will be included in the cost of the REACT®350.
- 9. In compliance with AASHTO 2011 Roadside Design Guide, remove all curbs and islands to ensure proper impact performance.
- Supply adequate transition from the REACT®350 system to the object being shielded for bidirectional traffic.
- 11. Units of measure are in English units.

- 12. These drawings are sufficient for plan details for the REACT®350 (TL-2) System installed as a free standing unit shielding safety shaped concrete barrier wall ends. The REACT®350 is not suited to shielding a wide hazard.
- 13. Due to the overall unit height of over 4'-0", which exceeds the drivers height of eye, caution is to be exercised in locating the REACT®350 to avoid blockage of required sight distance.
- 14. For REACT®350 units that have been impacted by vehicle crashes that are to remain in service, close inspection must be made on the anchorages of the front cable anchor plates and the rear pylon; the anchorages must be in design condition when restoration is complete.

Frank J. Powell, PE Florida #70359 3617 Cincinnati Ave. Rocklin, CA 95765

Revisions

Date Rev. By Ckd. App.

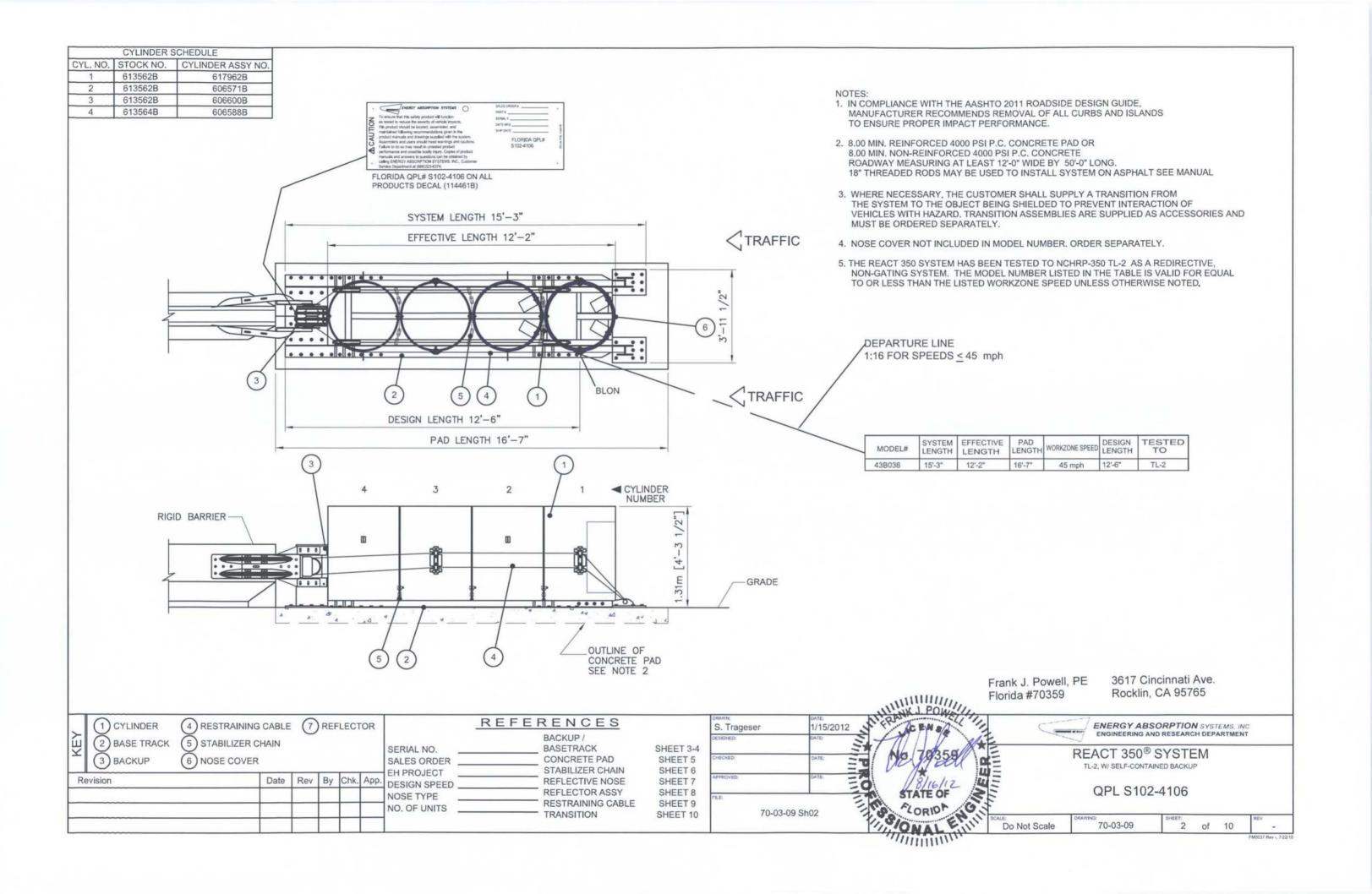
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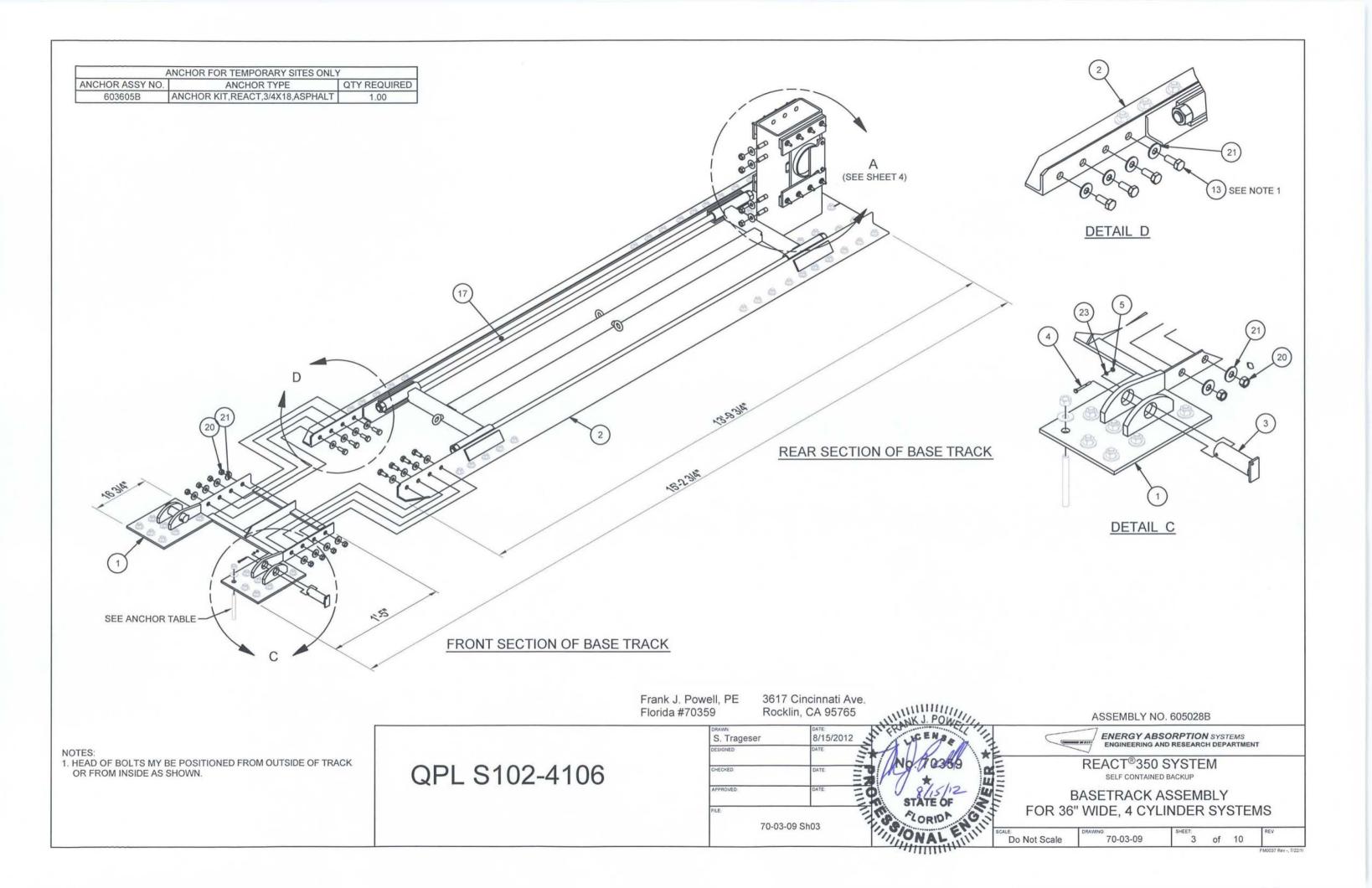
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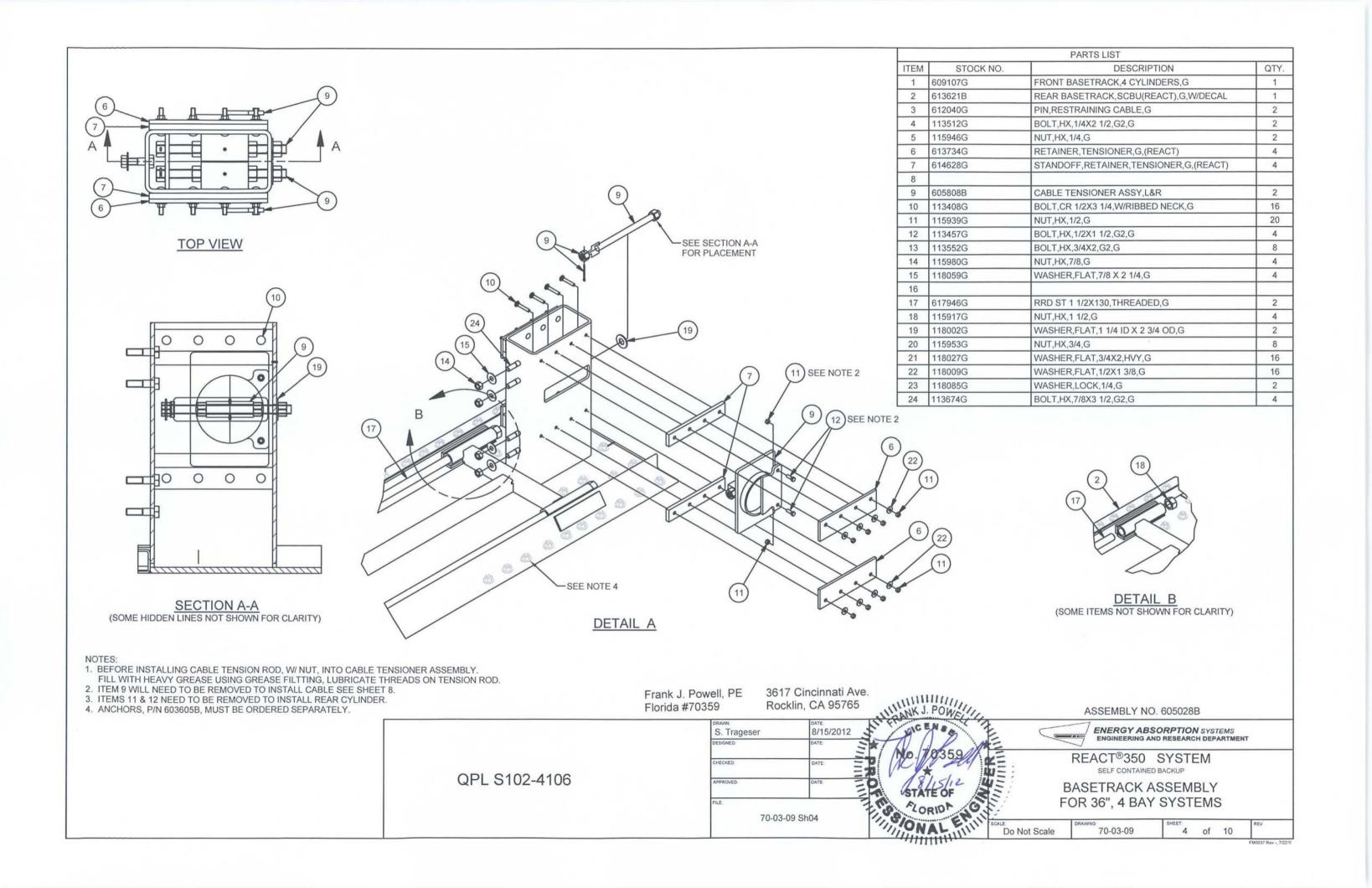
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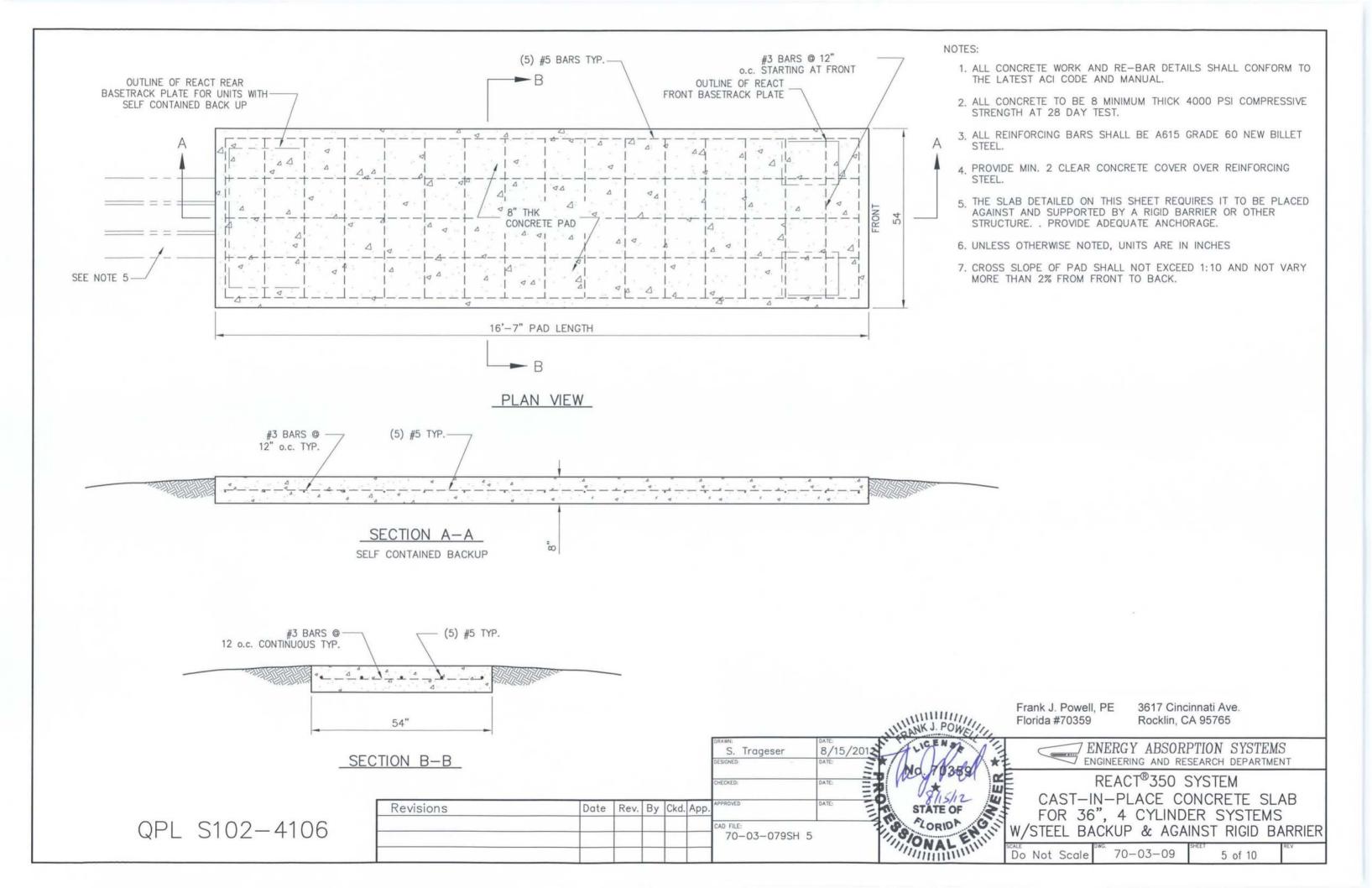
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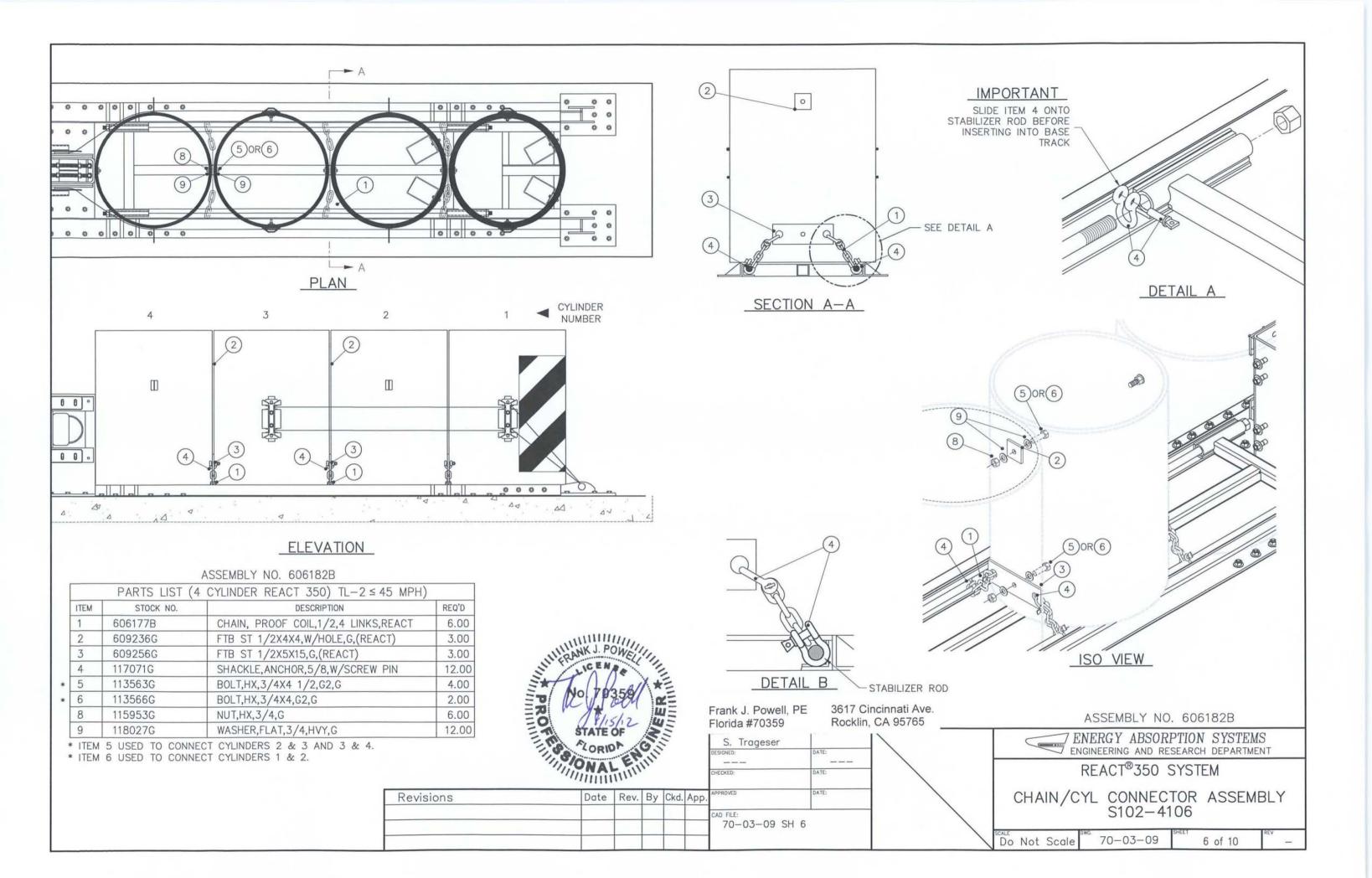
FOR QPL S102-4106

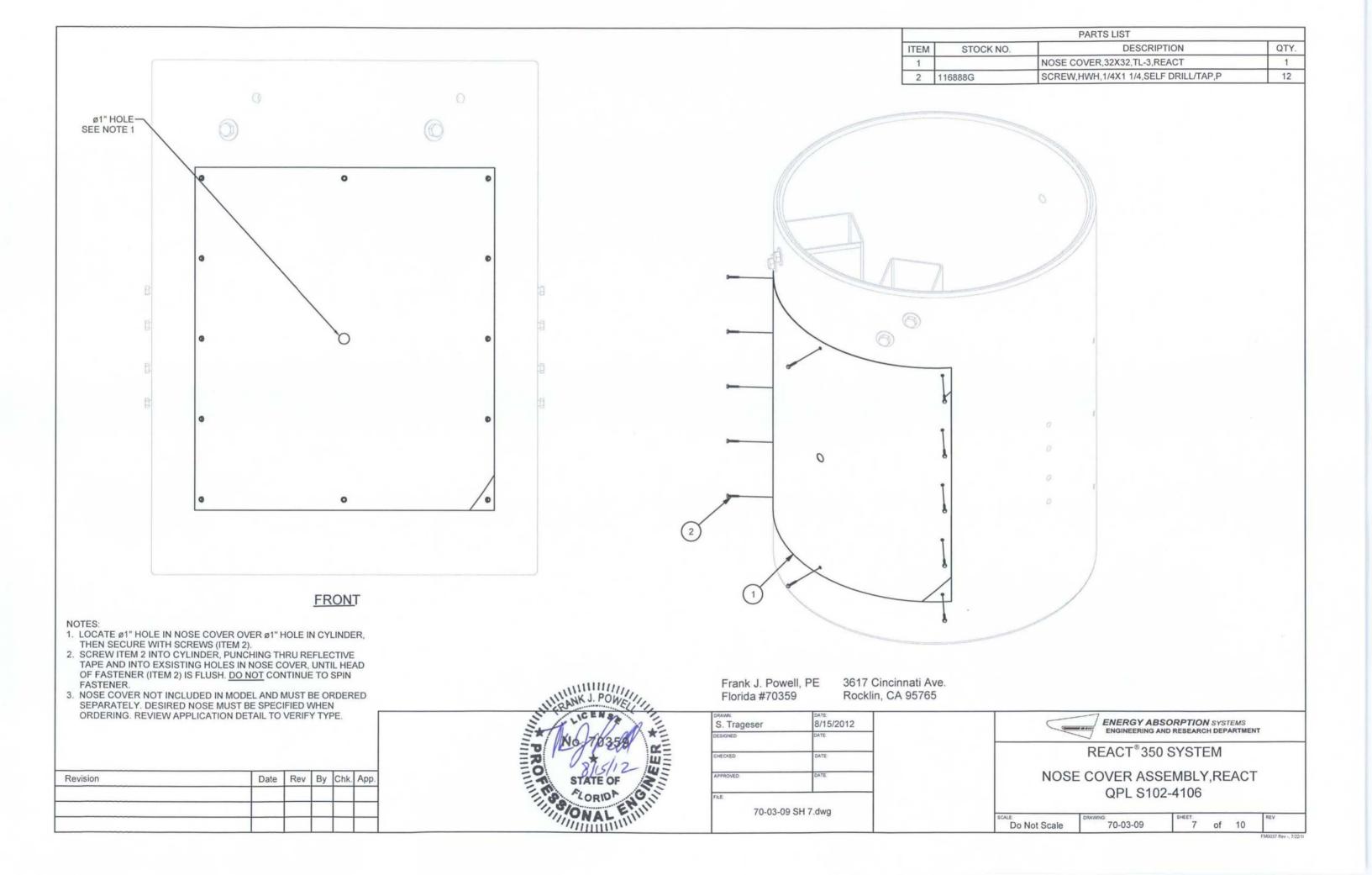












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NEXT ASSEMBLY: MATERIAL:

TOL ANGULAR: TOL LINEAR: UNLESS OTHERWISE NOTED.

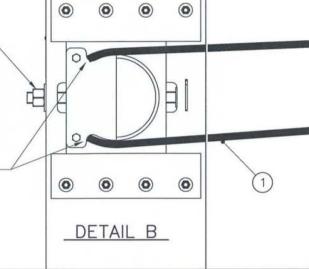
ITEM

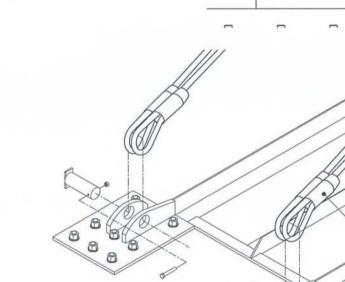
PARTS LIST STOCK NO. 113924G

DESCRIPTION RESTRAINING CABLE, 29'-11" REQ'D 2.00

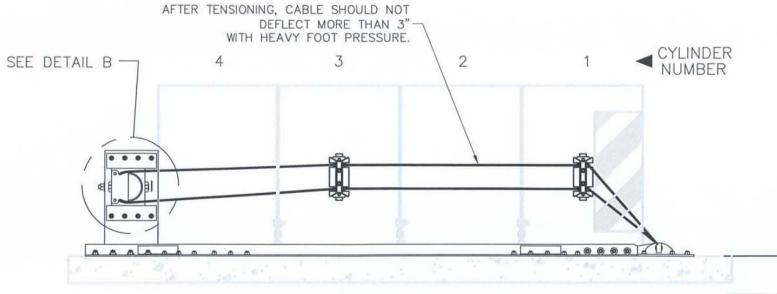
AFTER CABLE IS ASSEMBLED, APPLY TENSION BY TIGHTENING NUT ON CABLE TENSIONER PLATE (EACH SIDE).

REMOVE 2 BOLTS AND NUTS FROM THE TENSIONER PLATE (EACH SIDE) BEFORE CABLE INSTALLATION, THEN REINSTALL AFTER CABLE IS PLACED AROUND TENSIONER.





FRONT CABLE ATTACHMENT DETAIL FOR SELF CONTAINED BACKUP



ELEVATION

Revisions

8/15/2012 S. Trageser Date | Rev. | By | Ckd. | App. 70-03-09 SH 8.dwg

ENERGY ABSORPTION SYSTEMS, INC. ENGINEERING AND RESEARCH DEPARTMENT

REACT 350® SYSTEM

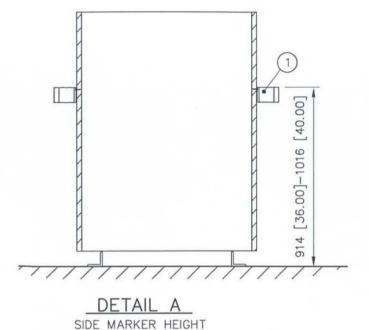
CABLE ASSEMBLIES QPL S102-4106

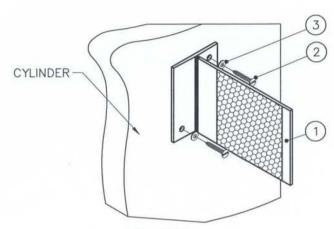
Do Not Scale

70-03-09

8 of 10







DETAIL B SIDE MARKER ATTACHMENT SEE DETAIL B AND NOTE 1

NOTE:

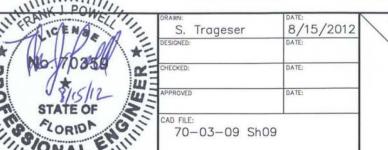
1. STARTING WITH REARMOST CYLINDER PLACE MARKERS ACCORDING TO LOCAL STANDARDS AND "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), BOTH SIDES. LOCATE AND INSTALL SIDE MARKERS AS SHOWN IN DETAILS A & B. SEE APPLICATION SITE PLAN VIEWS FOR MARKER COLOR ORIENTATION.

Date Rev. By Ckd. App Revisions

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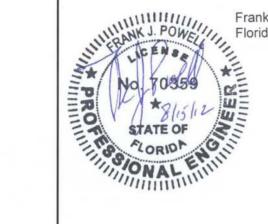
ASSEMBLY NO. 613705B



ENERGY ABSORPTION SYSTEMS ENGINEERING AND RESEARCH DEPARTMENT

REACT®350 SYSTEM REFLECTOR ASSEMBLY, WHITE/AMBER, SIDE, REACT 350 QPL S102-4106

70-03-09 Do Not Scale 9 of 10



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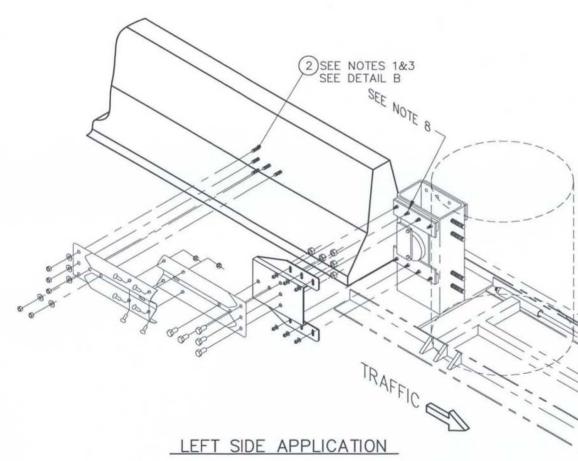


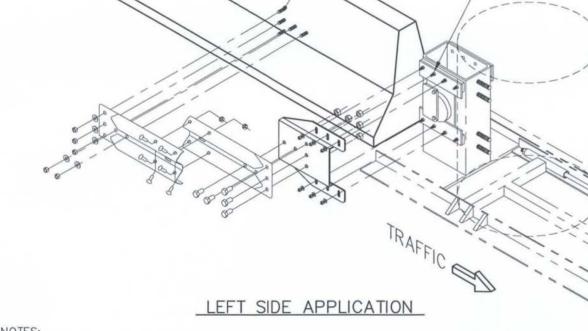


INCORRECT

DETAIL B

| PARTS LIST | | | | |
|------------|--------------|----------------------------------|-------|--|
| ITEM | STOCK NO. | DESCRIPTION | REQ'D | |
| 1 | 4720 | TRANSITION PLATE ASSEMBLY | 1.00 | |
| 2 | 3525130-0000 | ANCHOR,MP-3,PT KIT,3/4X6 1/2 HOR | 1.00 | |
| 3 | 2701811-0000 | BOLT,RAIL,5/8X1 1/4,G | 8.00 | |
| 4 | 2704191-0000 | NUT,HX,5/8,G,RAIL | 8.00 | |
| 5 | 2752171-0000 | END SHOE, W-BEAM | 2.00 | |
| 6 | 2701641-0000 | BOLT,HX,3/4X1 1/4,G2,G | 5.00 | |
| 7 | 2704091-0000 | NUT,HX,3/4,G | 5.00 | |

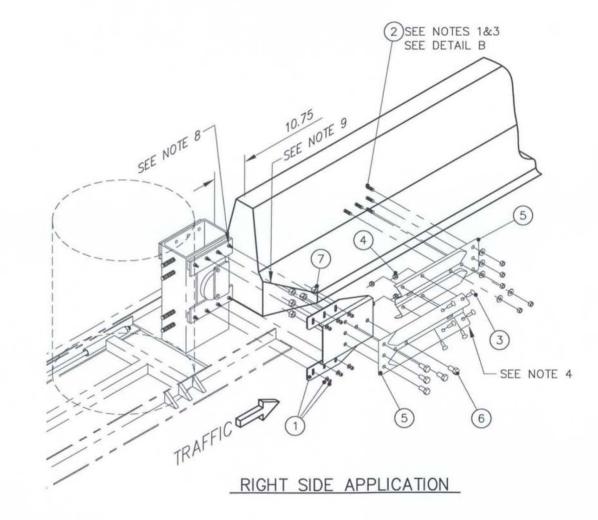




NOTES:

- 1. USE TRANSITION PANEL AS TEMPLATE FOR DRILLING.
- 2. IMPACT FORCES COULD BE TRANSFERRED INTO TERMINAL END OF THE BARRIER. ADEQUATE REINFORCING AND ANCHORAGE ARE REQUIRED FOR PROPER IMPACT PERFORMANCE.
- 3. ANCHOR STUD END SHOULD BE FLUSH WITH OUTSIDE SURFACE OF ANCHOR NUT, SEE DETAIL B.
- 4. TRANSITION ASSEMBLIES ARE SUPPLIED AS ACCESSORIES AND ARE ORDERED SEPARATELY.
- 5. END SHOES MUST BE LAPPED FOR TRAFFIC DIRECTION.
- 6. ITEMS 3 THROUGH 7 ARE STANDARD HIGHWAY HARDWARE & MAY BE SUPPLIED BY CUSTOMER. ORDER PART NUMBER 4720 TO RECEIVE ITEM 1 ONLY.

- 7. THIS TRANSITION ASSEMBLY MAY BE USED FOR NEW JERSEY BARRIER, F-SHAPED OR VERTICAL CONCRETE WALL.
- 8. EXISTING STUDS, WASHERS AND NUTS TO REMAIN. INSTALL TRANSITION PLATE ON TOP OF EXISTING HARDWARE.



ASSEMBLY NO. 3535006-0000

7 ENERGY ABSORPTION SYSTEMS ENGINEERING AND RESEARCH DEPARTMENT

70-03-09

Do Not Scale

REACT®350 SYSTEM

TRANSITION ASSY,SC BU,N,REACT 350 QPL # S102-4106

10 of 10

8/15/2012 S. Trageser 9. TRIM BARRIER 5 1/2" DEEP X 14" LONG, AS SHOWN. Date Rev. By Ckd. App Revisions AD FILE: 70-03-09 SH10