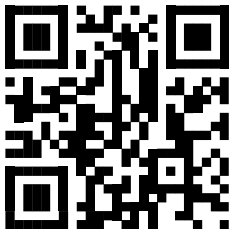


TAU-M™ PARALLEL | REDIRECTIVE NON-GATING, CRASH CUSHION

- QUICK AND EASY TO INSTALL
- PARTIALLY REUSABLE DESIGN
- MASH TL-3/TL-2 TESTED
- NCHRP 350 TO MASH UPGRADE KITS AVAILABLE



The Lindsay Guide App is available as a free download from the Apple Store® and Google Play™.



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P/N TAU-M™ Rev D (ECN 60303)

REVISIONS				
DATE	ECN	PUBLISHED ECN	REVISION	DESCRIPTION OF CHANGE
10/01/18	3883	3883	A	New release
06/14/19	4083	4083	B	Revision
06/30/2020	4469	4469	C	Pg 18 and 22. See ticket 13279.
04/19/2020	60303	60303	D	p.49 see ticket 14144

Important For Your Safety

We have provided important safety messages in this manual. **ALWAYS** read and obey all safety messages.

This is the safety alert symbol.



This symbol alerts you to hazards that can kill or hurt you and others. All safety messages will be preceded by the safety alert symbol and the word “DANGER”, “WARNING”, or “CAUTION”.

These words mean:

⚠ DANGER IMMEDIATE HAZARDS THAT WILL RESULT IN SEVERE PERSONAL INJURY OR DEATH.

⚠ WARNING Hazards or unsafe practices that **COULD** result in severe personal injury or death.

⚠ CAUTION Hazards or unsafe practices that **COULD** result in minor personal injury or product or property damage.

This manual must be available to the person(s) overseeing and/or assembling the crash cushion system at all times. For additional copies, or if you have any questions about any portion of this manual, see below to contact Lindsay Transportation Solutions.

Contact Information

Lindsay Transportation Solutions

U.S. Toll Free: (888) 800-3691

or

+1 (707) 374-6800

www.lindsaytransportationsolutions.com

STANDARD LIMITED WARRANTY

Lindsay Transportation Solutions, Inc. (collectively with its parent company Lindsay Corporation and all other subsidiaries and affiliates directly and indirectly owned by Lindsay Corporation, "LTS") has tested the impact performance of certain of its barriers, crash cushion systems, and other highway safety hardware at an ISO-certified crash testing laboratory under controlled conditions pursuant to the test matrix criteria of NCHRP 350, MASH or EN-1317, as applicable, as designated by the American Association of State Highway and Transportation Officials ("AASHTO") and the Federal Highway Administration ("FHWA"), or the European Committee for Standardization ("CEN"). Such tests do not replicate every possible crash scenario and they are not intended to represent the performance of barriers, crash cushion systems, and other highway safety hardware when impacted in every real world impact condition or by every vehicle type. It is widely recognized that there are impact conditions that exceed the performance expectations of all highway safety equipment.

The products with which this limited warranty is provided (the "Products") are intended to be installed, operated, and maintained in a manner not inconsistent with instructional materials provided by LTS, the AASHTO Roadside Design Guide (as applicable), and state and federal guidelines (as applicable). Selection and proper installation, operation, and maintenance of any highway safety product, including the Products, is the responsibility of the highway authority and state department of transportation.

LTS EXPRESSLY DISCLAIMS ANY WARRANTY OR LIABILITY FOR CLAIMS ARISING BY REASONS OF DEATH OR PERSONAL INJURY OR DAMAGE TO PROPERTY RESULTING FROM ANY IMPACT, COLLISION OR HARMFUL CONTACT WITH THE PRODUCTS OR NEARBY HAZARDS OR OBJECTS BY ANY VEHICLE, OBJECTS, OR PERSONS, REGARDLESS OF WHETHER THE PRODUCTS WERE INSTALLED IN CONSULTATION WITH LTS OR BY THIRD PARTIES.

LTS warrants that any Product or component part manufactured by LTS will be free from defects in material or workmanship. LTS will replace free of cost any Product or component part manufactured by LTS that contains such a defect.

THE FOREGOING WARRANTY IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES NOT EXPRESSLY SET FORTH HEREIN, WHETHER EXPRESS OR IMPLIED BY OPERATION OF LAW OR OTHERWISE, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

LTS, in its sole discretion, may elect to disclaim the foregoing warranty benefits with respect to (i) any Products that have been inspected and determined by LTS, in its sole discretion, (a) to have been subject to improper storage, accident, misuse, or unauthorized alterations, or (b) that have not been installed, operated, and maintained in accordance with approved procedures and guidelines (including but not limited to instructions included in materials provided by LTS and the AASHTO Roadside Design Guide) and (ii) any components manufactured by the Buyer.

LTS' LIABILITY UNDER THIS WARRANTY IS EXPRESSLY LIMITED TO REPLACEMENT FREE OF COST (IN THE FORM AND UNDER THE TERMS ORIGINALLY SHIPPED), OR TO REPAIR BY LTS, OF PRODUCTS OR PARTS NOT COMPLYING WITH LTS SPECIFICATIONS, OR, AT LTS' ELECTION, TO THE REPAYMENT OF AN AMOUNT EQUAL TO THE PURCHASE PRICE OF SUCH PRODUCTS OR PARTS, WHETHER SUCH CLAIMS ARE FOR BREACH OF WARRANTY OR NEGLIGENCE. LTS SHALL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, OR SPECIAL LOSSES, DAMAGES, OR EXPENSES OF ANY KIND, INCLUDING, WITHOUT LIMITATION, ANY SUCH LOSSES, DAMAGES, OR EXPENSES ARISING DIRECTLY OR INDIRECTLY FROM THE SALE, HANDLING, OR USE OF THE PRODUCTS FROM ANY OTHER CAUSE RELATING THERETO, OR FROM PERSONAL INJURY OR LOSS OF PROFIT.

Any claim by the Buyer with reference to Products sold hereunder for any cause shall be deemed waived by the Buyer unless LTS is notified in writing, in the case of defects apparent on visual inspection, within ninety (90) days from the delivery date, or, in the case of defects not apparent on visual inspection, within twelve (12) months from the said delivery date. Products claimed to be defective may be returned prepaid to LTS' plant for inspection in accordance with return shipping instructions that LTS shall furnish to the Buyer forthwith upon receipt of the Buyer's notice of claim. If the claim is established, LTS will reimburse that Buyer for all carriage costs incurred hereunder.

W030587 Rev. 11 revised October 16, 2017



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Universal TAU-M™ Parallel System Overview



The Universal TAU-M™ Parallel, (TAU-M™) is a redirective, non-gating crash cushion. The TAU-M™ system has been tested and evaluated per the recommendations set forth in the Manual for Assessing Safety Hardware (MASH) Test Level 3 & Test Level 2. The TAU-M™ system utilizes tensioned cables, telescoping three-beam panels, and energy absorbing cartridges (EAC) to absorb kinetic energy and safely contain or redirect impacting vehicles.

The system is comprised of compression based EACs, two cables, a front cable anchor, a backstop, four end panel mounts, middle support assemblies (mid-supports), cable guides, a Front Support, a Front Support leg kit, Slider Panels, two end panels, Slider Kits, Slider Shims, a tether kit, four tow hooks, and a delineation bracket.

The system has a height of 32-5/8" and a width of 34-1/2". The TAU-M™ varies in system length for each MASH test level by the number of bays. Test Level 3 measures approximately 287" (7 Bays) in length and Test Level 2 measures approximately 185" (4 Bays) in length.

In unidirectional applications, the TAU-M™ is free standing and is not required to be connected to the hazard. Transitions to other barrier systems such as W-Beam guardrail, rigid bridge, or roadside barriers shall be in accordance with Federal, State, and Local requirements.

TAU-M™ is a standalone system and can protect hazards up to 30" in width.

TAU-M™ is also available as a kit for users who have existing TAU-II™ components or systems and would like to upgrade those NCHRP 350 systems to the MASH compliant system.

Recommended Tools

NOTE: The list of tools, safety equipment, and traffic control is a general recommendation and should not be considered a comprehensive list. Depending on the specific characteristics of the job site and the complexity of the repair or assembly, more or less tools may be necessary.

Provided Tools

- Cable Socket
- 2-3/4" Cable Swage Key
- 1/2" (12mm) Allen Socket

Required Tools

- Tape Measure
- Chalk Line
- Marking Paint
- Rotary Hammer
- Masonry Bit
 - 7/8" (22mm) x 10" (254mm)
 - 7/8" (22mm) x 20" (508mm)
- Screwdriver (Flat or Phillips)
- Impact Wrench (pneumatic or electric)
- 3/4" (19mm) Combination Wrench
- 1/2" Drive Ratchet
- 1/2" Drive Extensions
- Compressed Air
- 3/4" Diameter Brush
- 1/2" Drive Torque Wrenches
 - 5 ft-lbf (8 N-m) to 500 ft-lbf (680 N-m)
- 1/2" Drive Deep Sockets
 - 3/4" (19mm)
 - 13/16" (21mm)
 - 15/16" (24mm)
 - 1-1/8" (29mm)

Optional Tools

If installing a pre-assembled system:

- Extension or Extended 7/8" (22mm) Masonry Bit
 - Length of drill bit will depend on the foundation application.
 - 48" (122cm) long for Concrete foundation
 - 60" (152cm) long for Asphalt foundation

Safety Equipment

- Safety Glasses
- Hearing Protection
- Gloves
- Steel Toe Boots
- Hard Hat
- Safety Vest
- Dust Mask

Traffic Control

- Traffic Control Equipment
- Traffic Control Plan

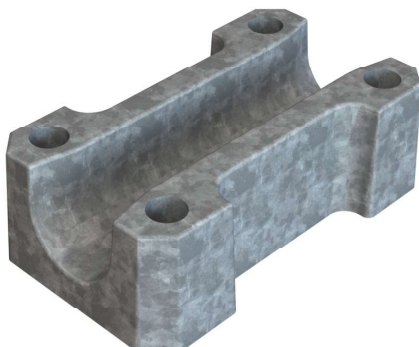
Parts Identification

⚠ WARNING Use only Lindsay Transportation Solutions parts that are specified by Lindsay Transportation Solutions for use with the TAU-M™ System. Unless specifically included in the NCHRP 350 to MASH Upgrade Kit BOMs do not use or co-mingle parts from other TAU-II™ and TAU-II™ systems including Non-Lindsay Transportation Solution systems. Such configurations have not been tested nor have they been approved for use. The use of unspecified parts is prohibited and could result in severe personal injury or death.

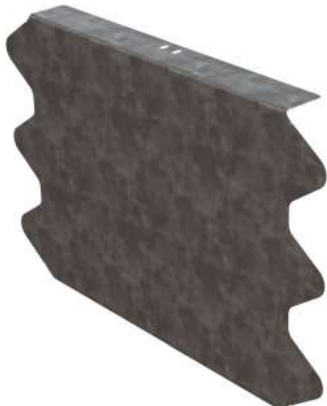
NOTE: Hardware not shown.

1  Compact Backstop, Parallel BSI-1707034-00	2  Cable Anchor, Parallel BSI-1708018-00	3  Front Support B030704
TL-2, Qty. 1	TL-2, Qty. 1	TL-2, Qty. 1
4  Middle Support Assembly B030703	5  Cable Assembly, 7 Bay BSI-1706001-00	6  Cable Assembly, 4 Bay BSI-1805036-00
TL-2, Qty. 3	TL-2, Qty. n/a	TL-2, Qty. 2
TL-3, Qty. 6	TL-3, Qty. 2	TL-3, Qty. n/a

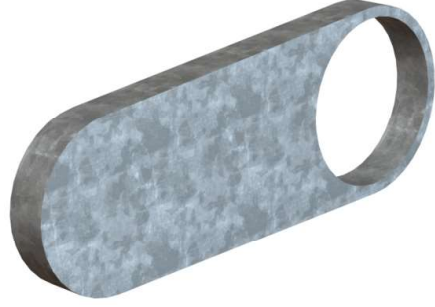
Parts Identification (Cont.)

7		8		9	
					
End Panel Mount BSI-1708032-00		End Panel, Thrie Beam BSI-1708030-00		Sliding Panel, Galvanized BSI-1708019-00	
TL-2, Qty. 2	TL-3, Qty. 2	TL-2, Qty. 2	TL-3, Qty. 2	TL-2, Qty. 8	TL-3, Qty. 14
10		12		16	
					
Cartridge , Energy Absorbing B010722		Front Support Leg BSI-1209011-00		Cable Guide BSI-1707032-00	
TL-2, Qty. 4	TL-3, Qty. 7	TL-2, Qty. 2	TL-3, Qty. 2	TL-2, Qty. 6	TL-3, Qty. 12
20		27		32	
					
Slider Kit BSI-1809041-KT		Tow Hook Kit BSI-1711051-00		Tether Kit BSI-1709083-KT	
TL-2, Qty. 4	TL-3, Qty. 7	TL-2, Qty. 1	TL-3, Qty. 1	TL-2, Qty. 1	TL-3, Qty. 1

Parts Identification (Cont.)

40		46		49	
					
Bracket, Delineation BSI-1708027-00		Anchor - 3/4" x 8-1/4" B011001		Epoxy 4004301	
TL-2, Qty. 1	TL-3, Qty. 1	TL-2, Qty. 25	TL-3, Qty. 25	TL-2, Qty. 2	TL-3, Qty. 2
50		51			
					
Epoxy Dispenser 4002468		Epoxy Nozzle 4004302			
TL-2, Qty. 1	TL-3, Qty. 1	TL-2, Qty. 2	TL-3, Qty. 2		

Parts Identification (Cont.) (Asphalt System)

52			53			54		
Crossmember, Galvanized BSI-1806012-00			Backstop Brace BSI-1806016-00			Backstop Brace BSI-1806018-00		
TL-2, Qty. 1		TL-3, Qty. 1	TL-2, Qty. 1		TL-3, Qty. 1	TL-2, Qty. 1		TL-3, Qty. 1
55			56			57		
Rear Plate, Galvanized BSI-1806006-00			Tie Channel, Galvanized BSI-1806008-00			Sliding Panel, Galvanized BSI-1708019-00		
TL-2, Qty. 1		TL-3, Qty. 1	TL-2, Qty. 1		TL-3, Qty. 1	TL-2, Qty. -		TL-3, Qty. 4
58			60			63		
Slider Shim BSI-1803016-00			Anchor - 3/4\" data-bbox="492 711 511 923"/>			Epoxy 4004301		
TL-2, Qty. -		TL-3, Qty. 8	TL-2, Qty. 53		TL-3, Qty. 53	TL-2, Qty. 8		TL-3, Qty. 8

Parts Identification (Cont.) (Asphalt System)

64  Epoxy Dispenser 4002468		65  Epoxy Nozzle 4004302	
TL-2, Qty. 1		TL-3, Qty. 1	
TL-2, Qty. 4		TL-3, Qty. 8	

Bill of Materials

Overall System

Item #	Part #	Description	TL-2	TL-3
1	BSI-1707034-00	Compact Backstop, Galvanized, Parallel	1	1
2	BSI-1708018-00	Galvanized Cable Anchor, TAU-M, Parallel	1	1
3	B030704	Front Support	1	1
4	B030703	Middle Support Assembly	3	6
5	BSI-1706001-00	Cable Assembly, 7 Bay, TAU-M	-	2
6	BSI-1805036-00	Cable Assembly, 4 Bay, TAU-M	2	-
7	BSI-1708032-00	End Panel Mount	4	4
8	BSI-1708030-00	End Panel, Thrie Beam, Galvanized, TAU-M	2	2
9	BSI-1708019-00	Sliding Panel, Galvanized, TAU-M	8	14
10	B010722	Cartridge, TAU-II, Type B, Energy Absorbing	4	7
11	K001005	TAU-II Front Support Leg Kit	1	1
12	BSI-1209011-00	Front Support Leg	2	2
13	2001793	C-Scr HH 5/8-11 x 2 Gr5 GEOMET	2	2
14	2001794	WASHER SAE 5/8" GEOMET	2	2
15	BSI-1808033-KT	Cable Guide Kit, TAU-M	3	6
16	BSI-1707032-00	CABLE GUIDE, GALVANIZED	6	12
17	BSI-2001957	C-Scr HH 1/2-13 x 3-1/4", Gr5 GEOMET	24	48
18	2001791	WASHER SL, 1/2" STANDARD, FINISH: GEOMET	24	48
19	2001797	NUT HN, 1/2-13, Gr5, FINISH GEOMET	24	48
20	BSI-1809041-KT	Slider TAU-M Kit	4	7
21	K001003	TAU-II Slider Kit	4	7
22	BSI-1208032-00	SLIDER FLAT, GALV	16	28
23	2001788	C-Scr FSH 3/4-10 x 3" Gr5 GEOMET	16	28
24	2001789	NUT HN 3/4-10 Gr5 GEOMET	16	28
25	2001790	WASHER FLAT 3/4" STD GEOMET	16	28
26	BSI-1803016-00	Slider Shim, Geomet, TAU-M	16	28
27	BSI-1809040-KT	Tow Hook Kit, TAU-M	1	1
28	BSI-1711051-00	Tow Hook, Galvanized, TAU-M	4	4

Bill of Materials (Cont.)

Item #	Part #	Description	TL-2	TL-3
29	2001795	C-Scr HH 3/4-10 x 2, Geomet	4	4
30	2001789	Nut HN, 3/4-10, Gr5, Geomet	4	4
31	2001790	Washer, 3/4" STD, Geomet	4	4
32	BSI-1709083-KT	Tether Kit, TAU-M	1	1
33	4000316	3/16" Galvanized Wire Tether	1	1
34	4000317	3/16" Galvanized Wire Rope Clamp	2	2
35	BSI-1808035-KT	End Panel HW Kit, TAU-M	1	1
36	BSI-2001956	C-Scr HH 3/4-10 X 3-1/2", Gr5 Geomet	4	4
37	2001789	Nut HN, 3/4-10, Gr5, Geomet	4	4
38	2001790	Washer, 3/4" STD, Geomet	4	4
39	BSI-1808034-KT	DELINEATION HW KIT, TAU-M	1	1
40	BSI-1708027-00	Bracket, Delineation, TAU-M	1	1
41	2001809	Nut HN 3/8-16, Gr5, Geomet	2	2
42	2001810	Washer 3/8" Std, Geomet	4	4
43	2001811	Washer SL 3/8" Std, Geomet	2	2
44	2001816	C-Scr HH 3/8-16 x 1-1/2", Gr5, Geomet	2	2
45	BSI-1808036-KT	Concrete Anchor Hardware Kit, TAU-M	1	1
46	B011001	Threaded Anchor 3/4-10 x 8-1/4" Gr2	25	25
47	2001399	Nut HN 3/4-10 HVY A563 HD Galv	25	25
48	2001380	WSHR 3/4" F436 Flat Rd Struct	25	25
49	4004301	Epoxy Ultbd 1, A22+1 Nozl	2	2
50	4002468	Epoxy Dispenser	1	1
51	4004032	Epoxy Nozzle	2	2

Bill of Materials (Cont.)

Asphalt Kit BOM

Item #	Part #	Description	TL-2	TL-3
52	BSI-1806012-00	Crossmember, Galvanized	1	1
53	BSI-1806016-00	Backstop Brace, Right Hand, Galvanized	1	1
54	BSI-1806018-00	Backstop Brace, Left Hand, Galvanized	1	1
55	BSI-1806006-00	Rear Plate, Galvanized	1	1
56	BSI-1806008-00	Tie Channel, Galvanized	1	1
57	BSI-1708019-00	Sliding Panel, Galvanized, TAU-M	-	4
58	BSI-1803016-00	Slider Shim, Geomet, TAU-M	-	8
59	BSI-1806038-KT	Asphalt Hardware Kit	1	1
60	B020353	Threaded Anchor 3/4-10 x 18" Gr2	53	53
61	2001399	Nut HN 3/4-10 HVY A563 HD Galv	53	53
62	2001380	WSHR 3/4" F436 Flat Rd Struct	53	53
63	4004301	Epoxy Ultbd 1, A22+1 Nozl	8	8
64	4002468	Epoxy Dispenser	1	1
65	4004032	Epoxy Nozzle	4	4

350 to MASH Upgrade Kit BOM – CONCRETE

Item #	Part #	Description	TL-2	TL-3
2	BSI-1708018-00	Galvanized Cable Anchor, TAU-M, Parallel	1	1
5	BSI-1706001-00	Cable Assembly, 7 Bay, TAU-M	-	2
6	BSI-1805036-00	Cable Assembly, 4 Bay, TAU-M	2	-
8	BSI-1708030-00	End Panel, Thrie Beam, Galvanized, TAU-M	2	2
9	BSI-1708019-00	Sliding Panel, Galvanized, TAU-M	8	14
15	BSI-1808033-KT	Cable Guide Kit, TAU-M	3	6
26	BSI-1803016-00	Slider Shim, Geomet, TAU-M	16	28
29	BSI-1809040-KT	TOW HOOK KIT, TAU-M	1	1
32	BSI-1709083-KT	Tether Kit, TAU-M	1	1
35	BSI-1808035-KT	END PANEL HW KIT	1	1
39	BSI-1808034-KT	DELINEATION HW KIT, TAU-M	1	1
45	BSI-1808036-KT	Concrete Anchor Hardware Kit, TAU-M	1	1

Bill of Materials (Cont.)

350 to MASH Upgrade Kit BOM – ASPHALT

Item #	Part #	Description	TL-2	TL-3
1	BSI-1707034-00	Compact Backstop, Galvanized, Parallel	1	1
2	BSI-1708018-00	Galvanized Cable Anchor, TAU-M, Parallel	1	1
5	BSI-1706001-00	Cable Assembly, 7 Bay, TAU-M	-	2
6	BSI-1805036-00	Cable Assembly, 4 Bay, TAU-M	2	-
8	BSI-1708030-00	End Panel, Thrie Beam, Galvanized, TAU-M	2	2
9	BSI-1708019-00	Sliding Panel, Galvanized, TAU-M	8	14
15	BSI-1808033-KT	Cable Guide Kit, TAU-M	3	6
26	BSI-1803016-00	Slider Shim, Geomet, TAU-M	16	36
27	BSI-1809040-KT	TOW HOOK KIT, TAU-M	1	1
32	BSI-1709083-KT	Tether Kit, TAU-M	1	1
35	BSI-1808035-KT	END PANEL HW KIT	1	1
39	BSI-1808034-KT	DELINEATION HW KIT, TAU-M	1	1
Include Asphalt Kit				
52	BSI-1806012-00	Crossmember, Galvanized	1	1
53	BSI-1806016-00	Backstop Brace, Right Hand, Galvanized	1	1
54	BSI-1806018-00	Backstop Brace, Left Hand, Galvanized	1	1
55	BSI-1806006-00	Rear Plate, Galvanized	1	1
56	BSI-1806008-00	Tie Channel, Galvanized	1	1
57	BSI-1708019-00	Sliding Panel, Galvanized, TAU-M	-	4
58	BSI-1803016-00	Slider Shim, Geomet, TAU-M	-	8
59	BSI-1806038-KT	Asphalt Hardware Kit	1	1
60	B020353	Threaded Anchor 3/4-10 x 18" Gr2	53	53
61	2001399	Nut HN 3/4-10 HVY A563 HD Galv	53	53
62	2001380	WSHR 3/4" F436 Flat Rd Struct	53	53
63	4004301	Epoxy Ultbd 1, A22+1 Nozl	8	8
64	4002468	Epoxy Dispenser	1	1
65	4004032	Epoxy Nozzle	4	4

Preparation

Foundation

Identify site foundation requirements and refer to page 48 for LTS Foundation Specifications. There are two (2) approved foundation configurations for the TAU-M™ system.

1. Solid concrete pad over the length of the system.
2. Asphaltic Concrete foundation, requiring additional anchorage hardware.

Variations of these foundations may be reviewed and determinations made as equivalent by the Project Engineer.

Transition

Identify site transition requirements and refer to pages 55 through 63 for LTS Transition Options. There are nine (9) approved transition configurations for the TAU-M™ system.

1. Median Barrier, Bi-Directional (Page 55)
2. Safety Shape PCB, Bi-Directional (Page 56)
3. Safety Shape PCB, One Side, Bi-Directional (Page 57)
4. Safety Shape PCB, Offset, Bi-Directional (Page 58)
5. Concrete End Shoe, Bi-Directional (Page 59)
6. Thrie Beam Rail, Bi-Directional (Page 60)
7. W-Beam Rail, Bi-Directional (Page 61)
8. Offset PCB with End Shoe, Bi-Directional (Page 62)
9. Compact Backstop, Unidirectional Traffic Flow (Page 63)

Placement and installation of the TAU-M™ system and transitions must be accomplished in accordance with the guidelines and recommendations set forth in the "AASHTO Road Side Design Guide" FHWA memorandum and other state and local standards.

Before installing the TAU-M™ system, ensure that all the materials required for the system are on site and have been identified.

Anchoring Specifications

The TAU-M™ system uses threaded rod and epoxy to anchor the Compact Backstop and Front Cable Anchor as well as transition options.

Alternative anchorage hardware/methods (epoxy systems or mechanical anchors) may be used such that they meet or exceed the mechanical properties as follows:

	Foundation Anchors (Concrete Application Only)
Hardware Diameter	3/4"
Ultimate Pull-out Strength*	39,000 lbs
Ultimate Shear Strength*	32,000 lbs

* Values Calculated with embedment depth of 6-3/4" in 4,000 psi concrete.

System Torque Chart

Concrete Installation	
Anchor Bolts	120 ft-lbs (160 N-m)
Cables	500 ft-lbs (680 N-m)*
Asphalt Installation	
Anchor Bolts	5 ft-lbs (8 N-m)
Cables	120 ft-lbs (160 N-m)
System Component Installation	
Cable Guides	30 ft-lbs (48 N-m)
End Panel Mounts	70 ft-lbs (95 N-m)
Tow Hook	120 ft-lbs (160 N-m)

* Using a torque wrench is always the preferred method to tighten hardware for the TAU-M™ system.

If a torque wrench with the capacity to torque 500 ft-lbs is not available, alternative methods may be followed to approximate this torque specification.

- 72" (1.8m) wrench extension with 100 lbs (45 kg) applied 12" (30.5 cm) from the end.
- 42" (1.1m) wrench extension with 200 lbs (90 kg) applied 12" (30.5 cm) from the end.

Documentation

Prior to installation and assembly of the TAU-M™ system, ensure you have read and understand the installation and assembly instructions. The following items should be reviewed and understood prior to installation.

- Installation and Assembly Manual (check for current revision posted at <http://www.barriersystemsinc.com/> See page 2.
- Installation and Assembly Video, Mobile App - The Lindsay Guide App is available as a free download from the Apple Store® and Google Play™.
- Installation and Assembly Video, Online - Full installation videos can be viewed online at <http://lindsay.guide>
- System Drawings (check <http://www.barriersystemsinc.com/> for current revision, located in installation manual.)

Important Notes

- TAU-M™ system is also provided as a kit-able system for users who have existing TAU-II™ components or systems and would like to upgrade those NCHRP 350 systems to the MASH compliant system. See page 41 for installation instructions.
- Ensure the TAU-M™ system is properly transitioned in accordance with Federal, State, and Local standards.
- The TAU-M™ system requires a transition in bi-directional traffic. See pages 55 through 62 for acceptable transition configurations.
 - TAU-M™ is a free standing system in unidirectional traffic and does not require a transition. See page 63.
- Sign Convention
 - The term Upstream = Towards the Front Support
 - The term Downstream = Towards Backstop
- **IF INSTALLING A PRE-BUILT SYSTEM**, begin on page 21 (Installing a Pre-Built System).
- **IF INSTALLING AN UNASSEMBLED SYSTEM**, begin on page 23 (Installing an Unassembled System).
- Asphalt instructions will be enclosed in a green box:



Installing a Pre-Built System

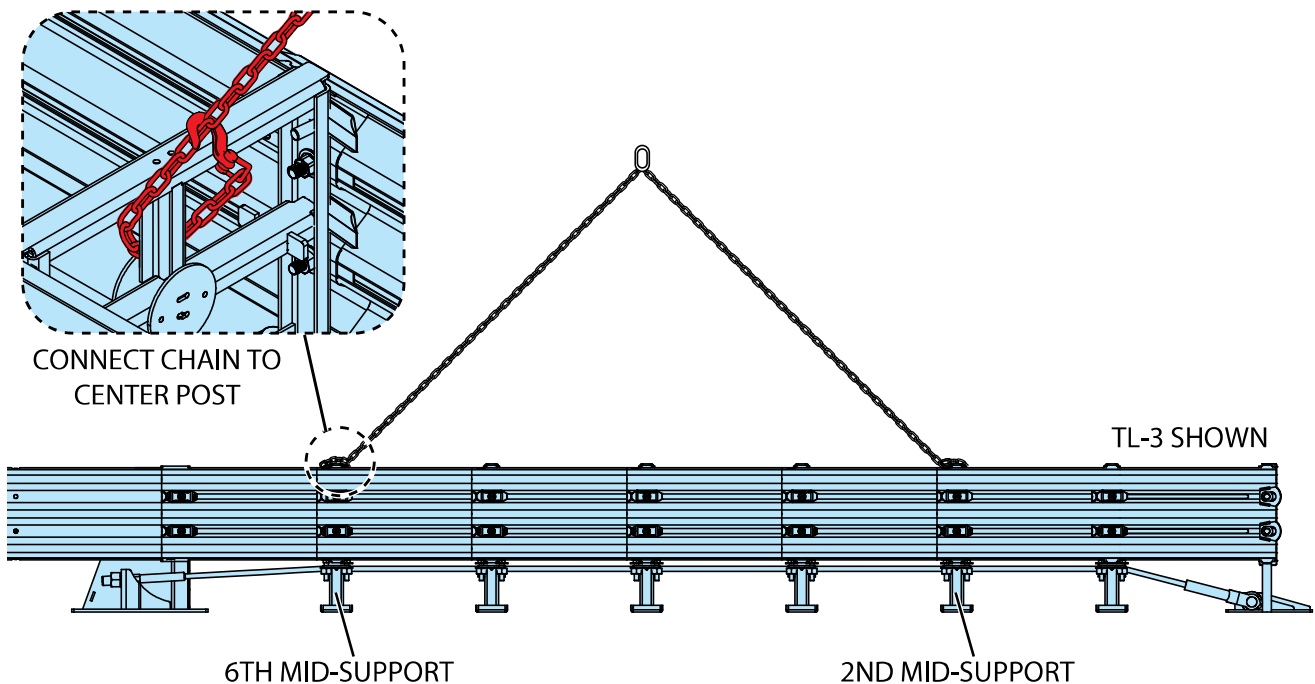
TAU-M™ may be pre-assembled offsite and transported via flatbed truck and installed on location.

NOTE: Preassembled systems may be transported without EACs, with Mid-Supports fully collapsed.

Preassemble System using Steps 1.1 and 2 through 9 of this manual.

Lifting the preassembled TAU-M™ System.

- Tighten all Slider bolts to add rigidity to system.
- Recommended lift points for a TL-3 system is at the 2nd and 6th Mid-Support. For a TL-2 system lift points are at the 1st and 3rd Mid-Support. Use chains connected to the center post of the Mid-Support. Ensure that the system is leveled when lifted. Adjust chains as necessary.
- Use crane, fork lift, or skid steer to lift the assembled system.



Installing a Pre-Built System (Cont.)

Installing the preassembled TAU-M™ System

1. Drilling anchor holes

- I. Use a drilling template for the backstop and Front Cable Anchor prior to placement.

OR

- II. Place system on location and mark anchor hole locations.

- III. Move system aside to drill holes.

OR

- IV Place system on location.

- V Ensure spacing between backstop and Front Cable Anchor is correct.

- VI Remove first and last bay cartridges to access anchor hole locations.

- a. Use 4 – 5 ft. drill bit or extension to access anchor holes through the End Panel Mounts as shown.

PRO-TIP: Loosening the Slider bolt that is connected to the End Panel Mounts, will make for easier access.

2. Follow Step 1 of this manual, see page 23.

3. Replace EACs in first and last bay, if removed for drilling accessibility.

Completed System Dimensions

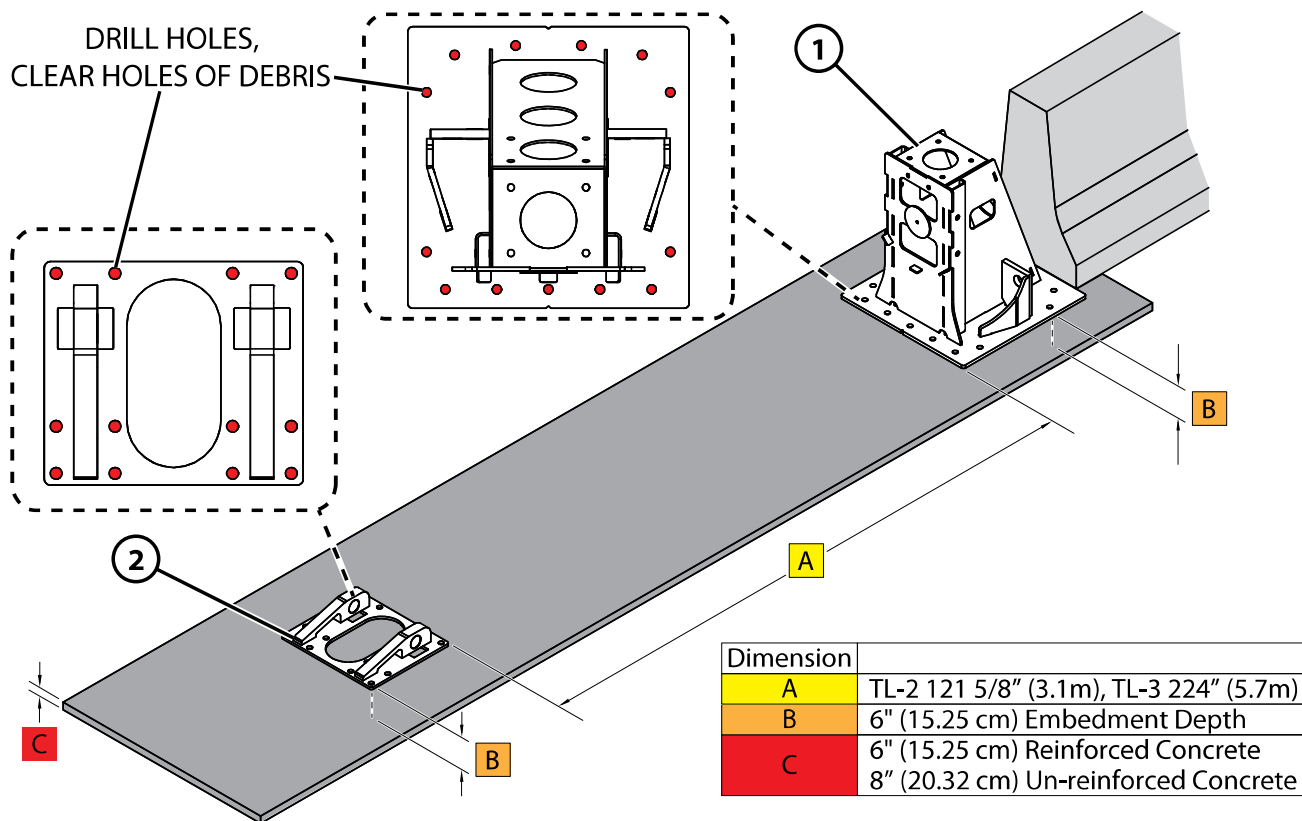
Max Dimension	System Configuration	
	TL-2	TL-3
Height	32-5/8" (0.83m)	32-5/8" (0.83m)
Width	34-1/2" (0.88m)	34-1/2" (0.88m)
Length	185" (4.7m)	287" (7.3m)
Asphalt Kit Width	43" (1.1m)	43" (1.1m)
Asphalt Kit Length	197" (5.0m)	300" (7.6m)

Approximate System Weight

System Configuration	Weight:	With Asphalt Kit
TL-2	1700 lbs. (770 kg)	1950 lbs. (885 kg)
TL-3	2500 lbs. (1135 kg)	2950 lbs. (1340 kg)

*Weight does not include transition components or anchoring hardware.

Step 1 - Backstop & Front Cable Anchor Installation (Concrete)



Item #	Part #	Description	QTY
1	BSI-1707034-00	Compact Backstop, Galvanized, Parallel	1
2	BSI-1708018-00	Galvanized Cable Anchor, TAU-M, Parallel	1

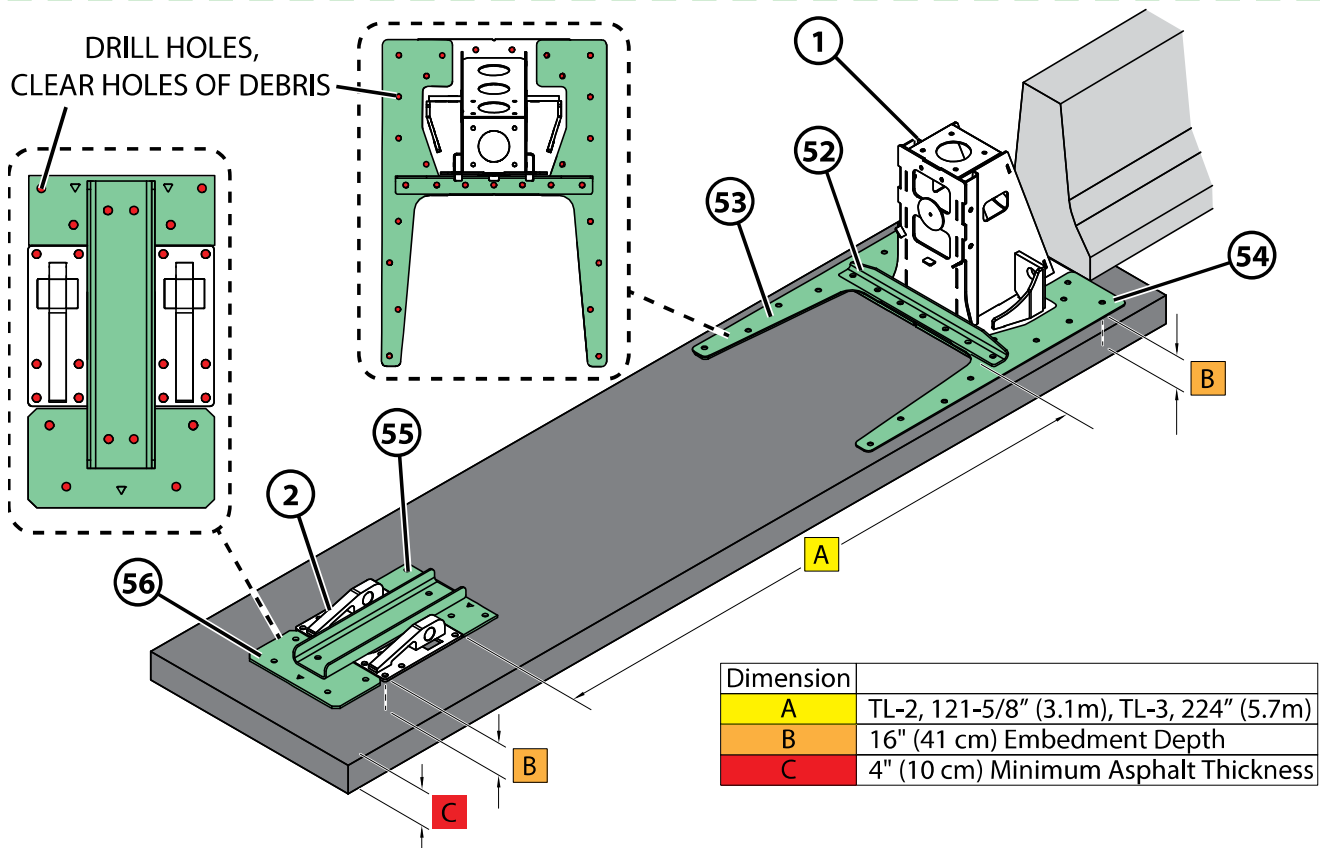
NOTE: Depending on the type of hazard and/or transition requirements the Compact Backstop (item 1) may need to be spaced away from the hazard for access to the cable lug later in the installation process. Refer to pages 55 through 63 for transition requirements.

- 1.1 Position Compact Backstop (item 1) and space the Front Cable Anchor (item 2) as shown. Refer to the table below for displacement value. Measurement is taken from the front of the Compact Backstop base plate to the rear of the Front Cable Anchor base plate. See page 24 for additional installation in asphalt.
- 1.2 Once the Compact Backstop and Front Cable Anchor are positioned, mark and drill into the foundation at all hole locations. Drill 7/8" hole diameter for supplied epoxy. If other epoxy is used, follow manufacturer's recommendations for 3/4" threaded rod. See page 18 for anchor specifications.
- 1.3 Clear holes of debris with compressed air and brush. Wear PPE.

⚠ DANGER HOLES MUST BE DRILLED TO DEPTH AND CLEARED OF DEBRIS TO ENSURE PROPER ANCHORAGE IS ACHIEVED.

⚠ CAUTION Wear proper Personal Protective Equipment (PPE) when drilling and clearing debris. This operation produces silica dust.

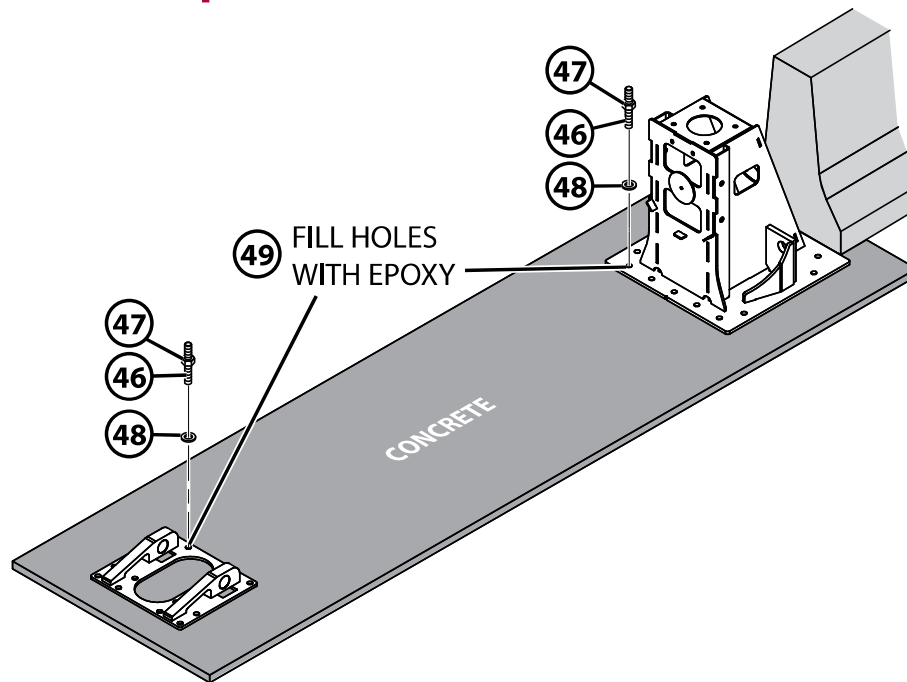
Step 1 (Cont.) - Backstop & Front Cable Anchor Installation (Asphalt)



NOTE: If the foundation is asphalt, in addition to Step 1.1, the following components will need to be installed accordingly. The Concrete Anchor Hardware kit (item 45) shall be replaced with the Asphalt Anchor Hardware kit (item 59).

Item #	Part #	Description	QTY
52	BSI-1806012-00	Crossmember, Galvanized	1
53	BSI-1806016-00	Backstop Brace, Right Hand, Galvanized	1
54	BSI-1806018-00	Backstop Brace, Left Hand, Galvanized	1
55	BSI-1806006-00	Rear Plate, Galvanized	1
56	BSI-1806008-00	Tie Channel, Galvanized	1

Step 1 (Cont.)- Backstop & Front Cable Anchor Installation (Concrete)



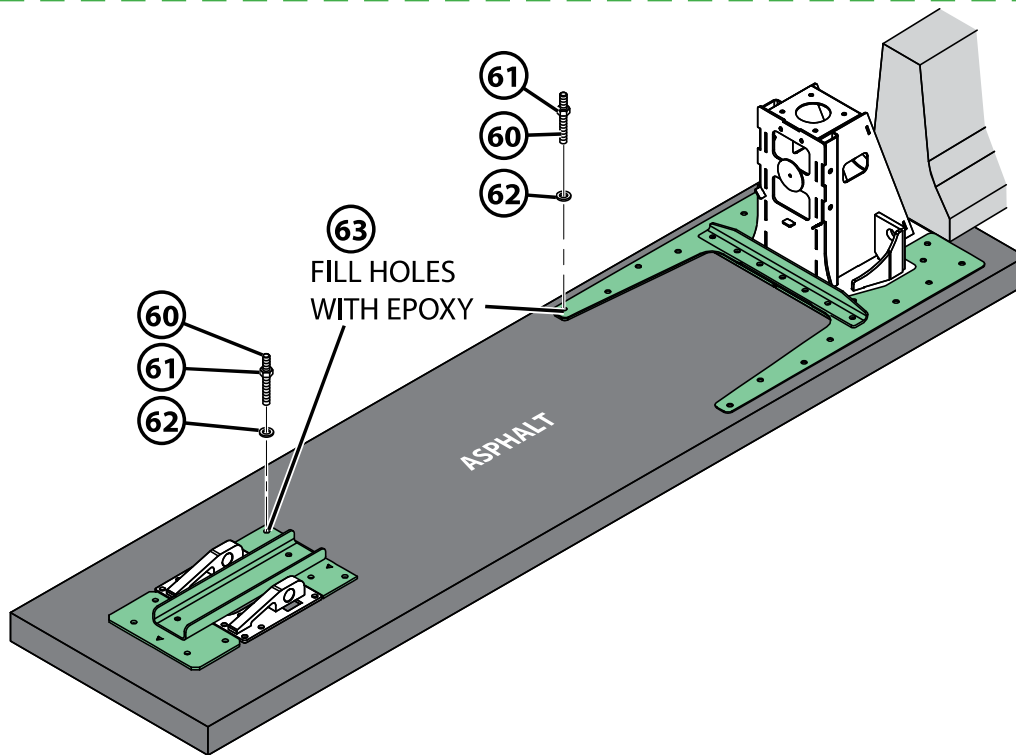
Item #	Part #	Description	QTY
45	BSI-1808036-KT	Concrete Anchor Hardware Kit, TAU-M	1
46	B011001	Threaded Anchor 3/4-10 x 8-1/4" Gr2	25
47	2001399	Nut HN 3/4-10 HVY A563 HD Galv.	25
48	2001380	WSHR 3/4" F436 Flat Rd Struct.	25
49	4004301	Epoxy Ultbd 1, A22+1 Nozl.	2
50	4002468	Epoxy Dispenser	1
51	4004302	Epoxy Nozzle	2

PRO-TIP: Preassemble threaded anchor, nut and washer with 3-4 threads minimum on top of the nut.

1.4 Using the supplied hardware kit, fill cleared holes with epoxy and insert threaded rods with washer and nut into each drilled hole. Allow to cure per manufacturer's instruction. Cure time will vary based on ambient temperature.

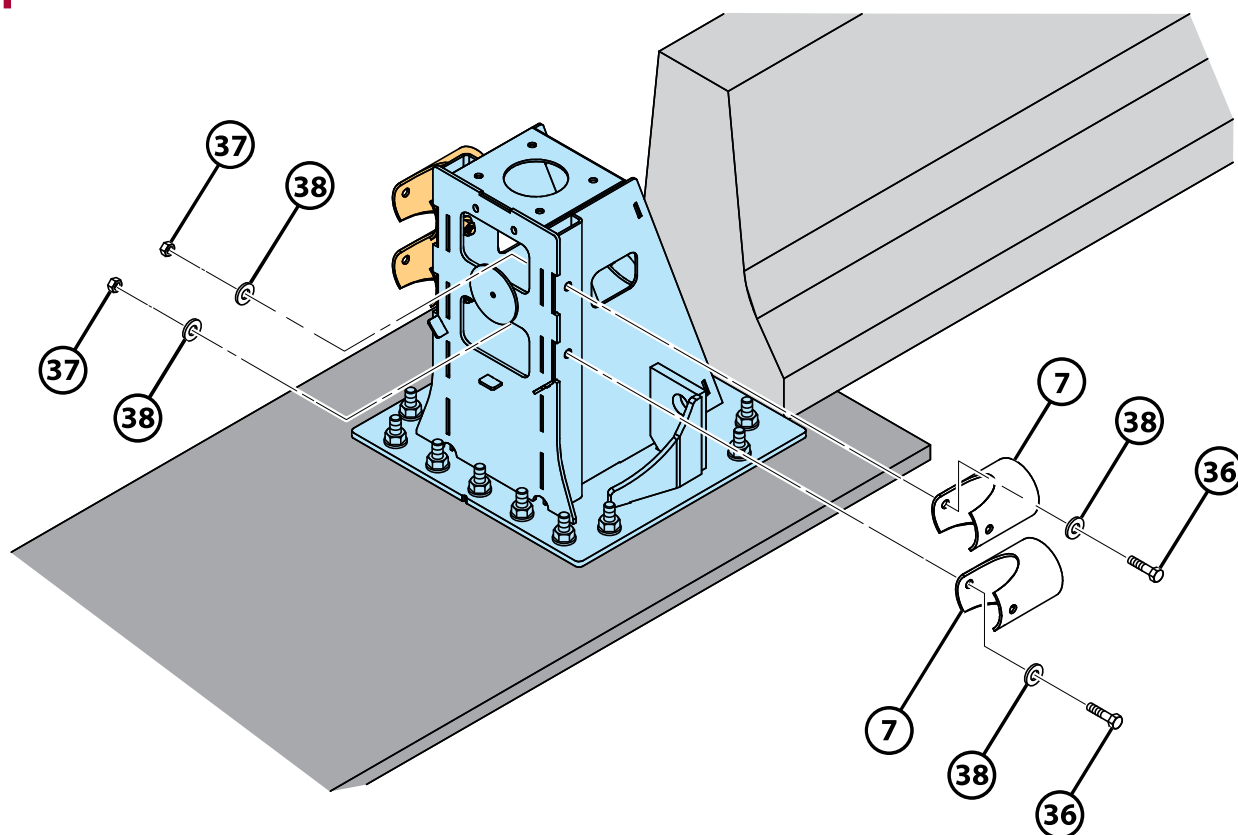
NOTE: Torque anchor bolts AFTER epoxy has been cured per manufacturer's requirements found on epoxy cartridge. For full system torque specifications, see page 18.

Step 1 (Cont.) - Backstop & Front Cable Anchor Installation (Asphalt)



Item #	Part #	Description	QTY
59	BSI-1806038-KT	Asphalt Hardware Kit	1
60	B020353	Threaded Anchor 3/4-10 x 18" Gr2	53
61	2001399	Nut HN 3/4-10 HVY A563 HD Galv	53
62	2001380	WSHR 3/4" F436 Flat Rd Struct	53
63	4004301	Epoxy Ultbd 1, A22+1 Nozl	8
64	4002468	Epoxy Dispenser	1
65	4004302	Epoxy Nozzle	8

Step 2 - End Panel Mount Installation



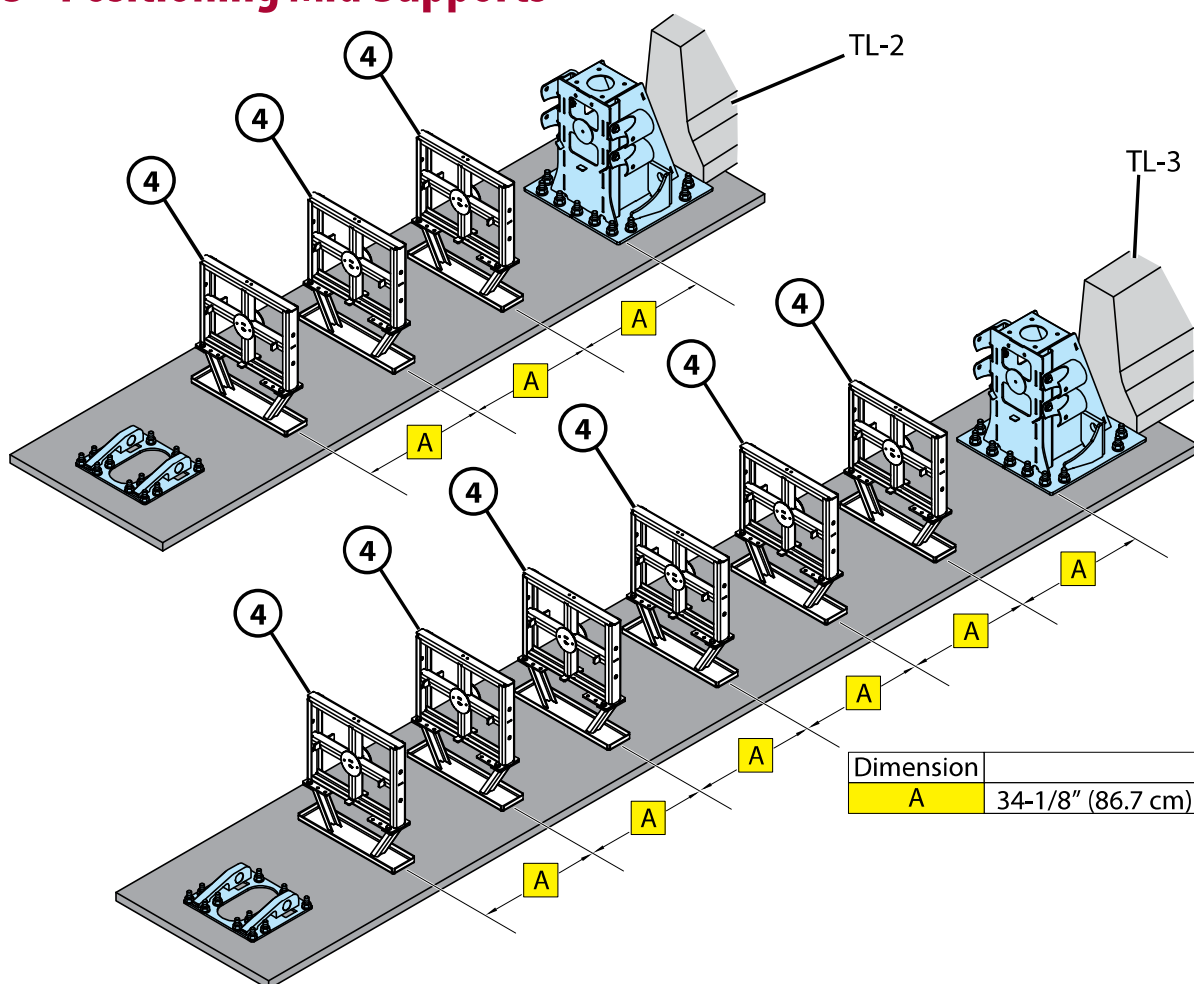
Item #	Part #	Description	QTY
7*	BSI-1708032-00	End Panel Mount	4
35	BSI-1808035-KT	End Panel HW Kit	1
36	BSI-2001956	C-Scr HH 3/4-10 X 3-1/2",Gr5 Geomet	4
37	2001789	Nut HN, 3/4-10, Gr5, Geomet	4
38	2001790	Washer, 3/4" STD, Geomet	4

*May Use NCHRP 350 TAU-II™ Component

2.1 Install End Panel Mounts (item 7) using the hardware kit (item 35) to the Compact Backstop as shown. **Torque to 70 ft-lbs (95 N-m).**

NOTE: Ensure End Panel Mounts are horizontal as shown. Cutout faces upstream.

Step 3 - Positioning Mid-Supports

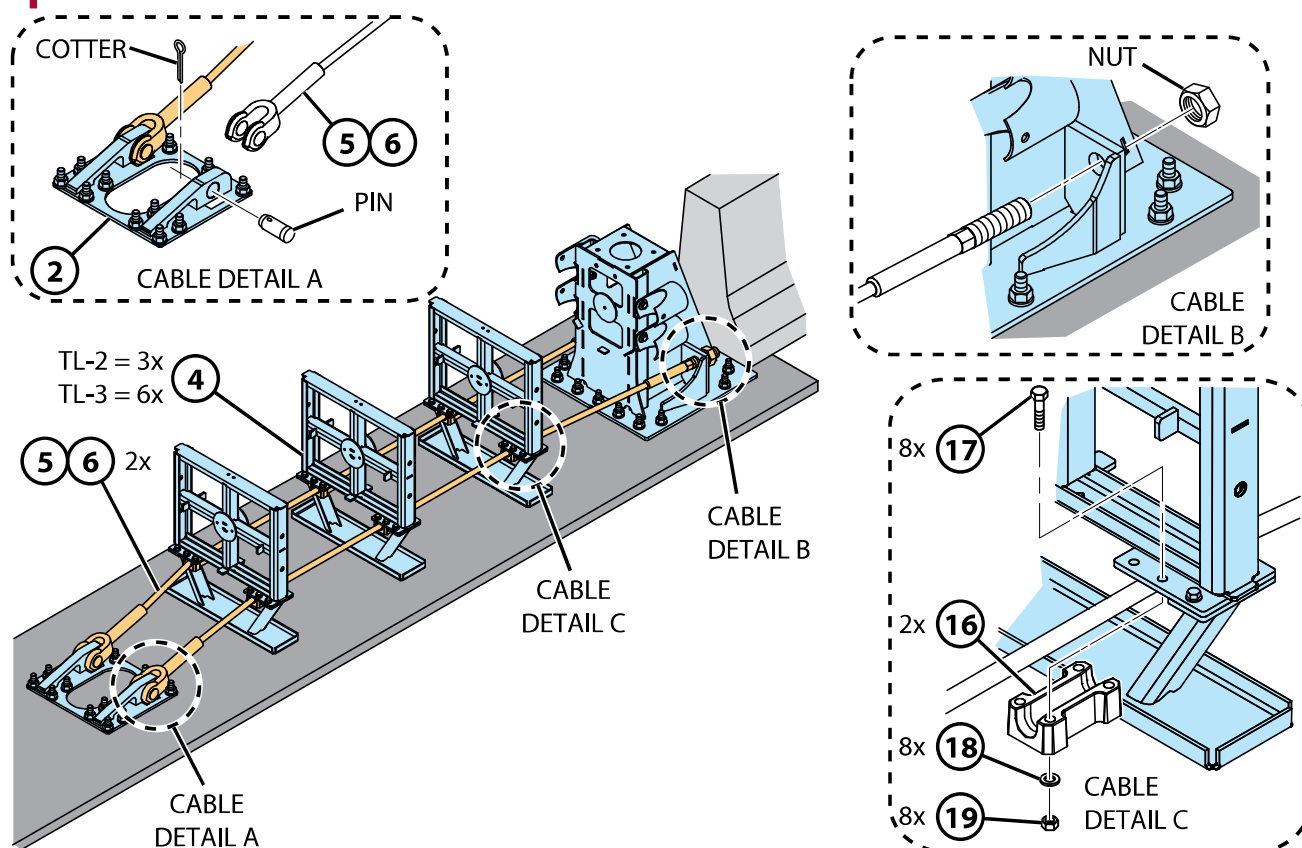


Item #	Part #	Description	QTY	
			TL-2	TL-3
4	B030703	Middle Support Assembly	3	6

3.1 Space Mid-Supports (item 4) approximately 34-1/8" (86.7 cm) (center-to-center) apart from each other as well as from the End Panel Mount bolt holes.

NOTE: Final position of Mid-Supports will be set when Slider Panels are installed.

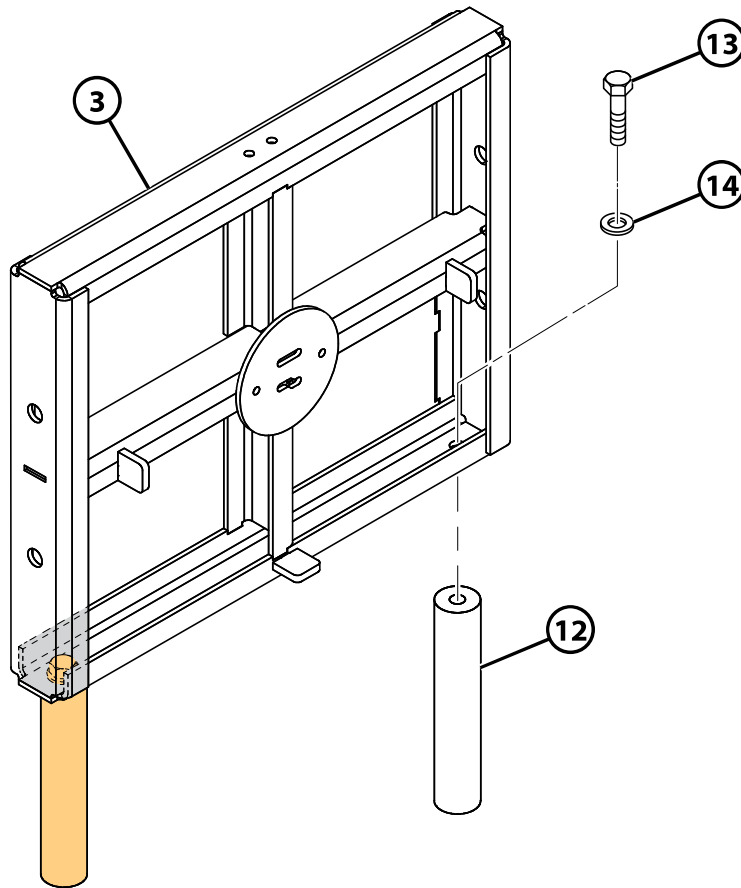
Step 4 - Cable Installation



Item #	Part #	Description	QTY	
			TL-2	TL-3
5	BSI-1706001-00	Cable Assembly, 7 Bay, TAU-M	-	2
6	BSI-1805036-00	Cable Assembly, 4 Bay, TAU-M	2	-
15	BSI-1808033-KT	Cable Guide Kit, TAU-M	3	6
16	BSI-1707032-00	CABLE GUIDE, GALVANIZED	6	12
17	BSI-2001957	C-Scr HH 1/2-13 x 3-1/4", Gr5 GEOMET	48	64
18	2001791	WASHER SL, 1/2" STANDARD, GEOMET	48	64
19	2001797	NUT HN, 1/2-13, Gr5, FINISH GEOMET	48	64

- 4.1 Identify test level requirement, use appropriate Cable Assemblies (item 5 or 6).
- 4.2 Pass Cable Assemblies (item 5 or 6) through the legs of the Mid-Support (item 4).
- 4.3 Pass threaded end of Cable Assemblies through the Compact Backstop cable lug. Secure with nut provided with the Cable Assemblies. **DO NOT TIGHTEN.**
- 4.4 Secure clevis end of Cable Assemblies to Front Cable Anchor (item 2) as shown in Detail A.
- 4.5 Secure Cable Assemblies to Mid-Support using Cable Guide Kit (item 15) as shown in Detail C. **Torque to 30 ft-lbs (48 N-m).**

Step 5 - Front Support Assembly

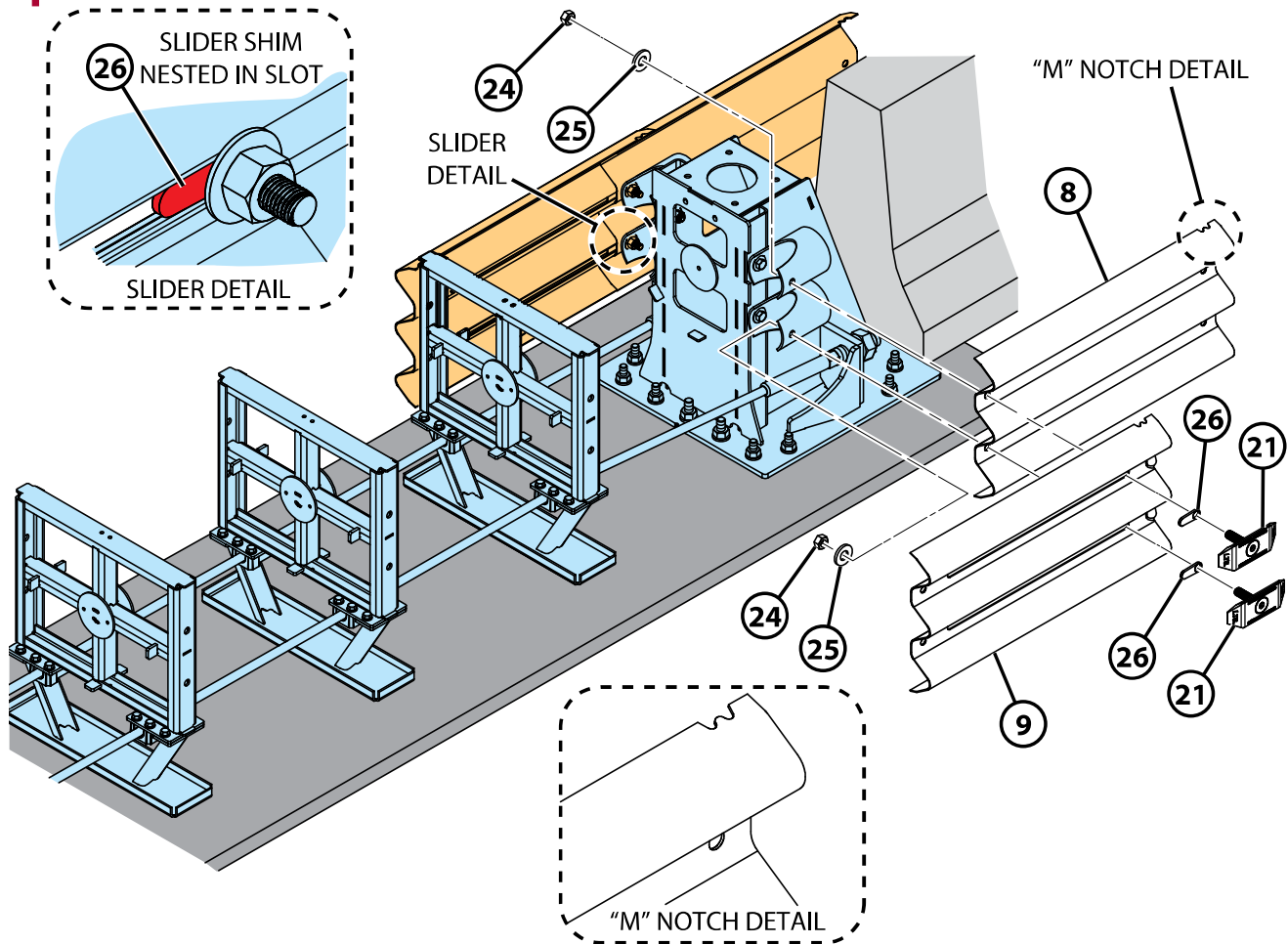


Item #	Part #	Description	QTY
3	B030704	Front Support	1
11	K001005	TAU-II Front Support Leg Kit	1
12	BSI-1209011-00	Front Support Leg	2
13	2001793	C-Scr HH 5/8-11 x 2 Gr5 GEOMET	2
14	2001794	WASHER SAE 5/8" GEOMET	2

5.1 Install Front Support Leg Kit (item 11) to Front Support (item 3).

5.2 Set this assembly aside.

Step 6 - Panel Installation

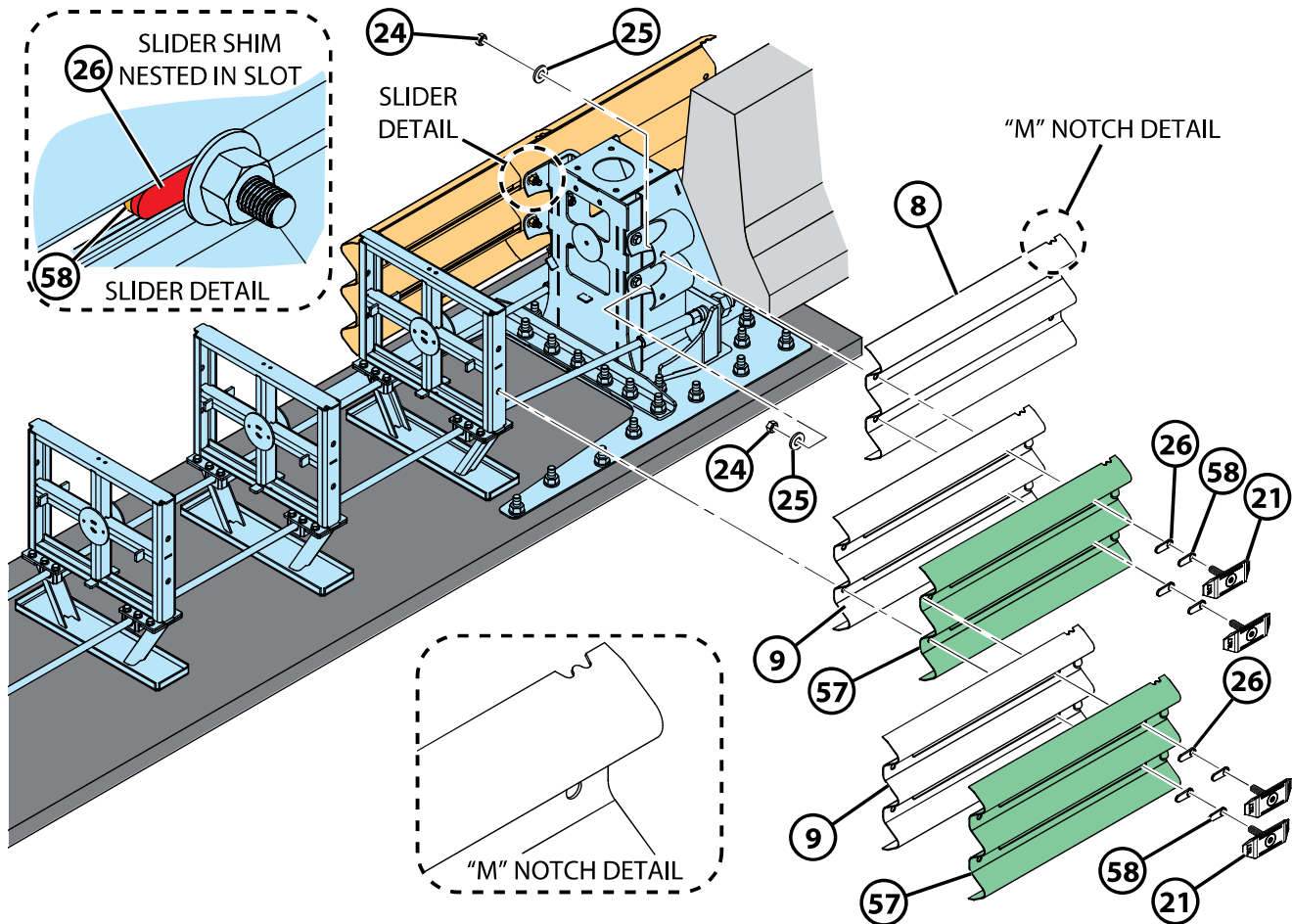


Item #	Part #	Description	QTY	
			TL-2	TL-3
8	BSI-1708030-00	End Panel, Thrie Beam, Galvanized, TAU-M	2	2
9	BSI-1708019-00	Sliding Panel, Galvanized, TAU-M	8	14
20	BSI-1809041-KT	Slider TAU-M Kit	4	7
21	K001003	TAU-II Slider Kit	4	7
22	BSI-1208032-00	SLIDER FLAT, GALV	16	28
23	2001788	C-Scr FSH 3/4-10 x 3" Gr5 GEOMET	16	28
24	2001789	NUT HN 3/4-10 Gr5 GEOMET	16	28
25	2001790	WASHER FLAT 3/4" STD GEOMET	16	28
26	BSI-1803016-00	Slider Shim, Geomet, TAU-M	16	28

6.1 Install an End Panel (item 8) to the End Panel Mounts with a Sliding Panel (item 9) lapped on the outside oriented with the "M" notch downstream.

⚠ WARNING Sliding Panel must be lapped over the End Panel.

Step 6 (Cont.) - Panel Installation (Asphalt)



Item #	Part #	Description	QTY	
			TL-2	TL-3
57	BSI-1708019-00	Sliding Panel, Galvanized, TAU-M	0	4
58	BSI-1803016-00	Slider Shim, Geomet, TAU-M	0	8

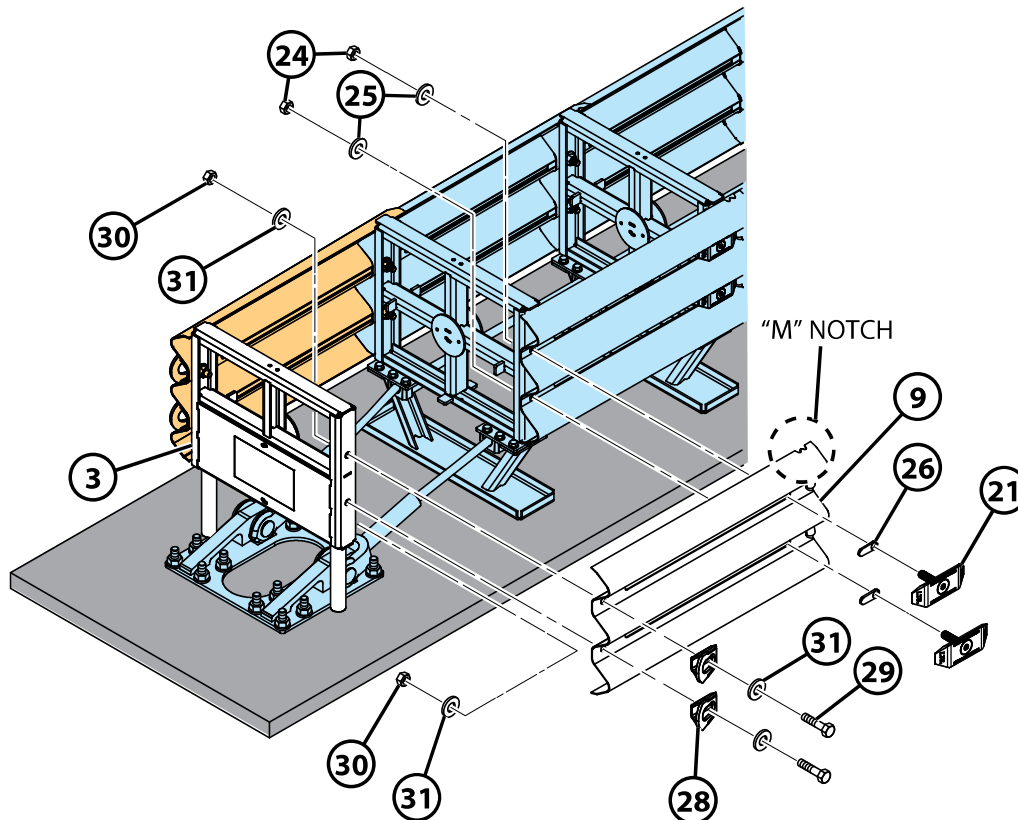
NOTE: If the system is to be anchored into an asphalt foundation and is a TL-3 system, additional panels need to be nested in the last two (2) bays with double stacked Slider Shims (items 57 & 58). **TL-2 does not require nested panels in its asphalt installation.**

6.2 Install the proceeding Sliding Panels (item 9) using the provided Slider Kit and Slider Shim (item 21 & 26) as shown. The hole on the Slider Shim must point downstream.
Hand tight only.

NOTE: Ensure that the "M" notch is positioned downstream.

PRO-TIP: Use screw driver (flat or Phillips) to ensure Slider Shims seat in panel slot.

Step 6 (Cont.) - Panel Installation



Item #	Part #	Description	QTY	
			TL-2	TL-3
27	BSI-1809040-KT	Tow Hook Kit, TAU-M	1	1
28	BSI-1711051-00	Tow Hook, Galvanized, TAU-M	4	4
29	2001795	C-Scr HH 3/4-10 x 2, Geomet	4	4
30	2001789	Nut HN, 3/4-10, Gr5, Geomet	4	4
31	2001790	Washer, 3/4" STD, Geomet	4	4

6.3 Progress to the next upstream Mid-Support and overlap the slots with the corresponding holes on the previous panel and secure with the Slider Kit and Slider Shim (item 21 & 26). Ensure that the Slider Shim is seated into the slot.

⚠ WARNING Proceeding panel must overlap on the outside.

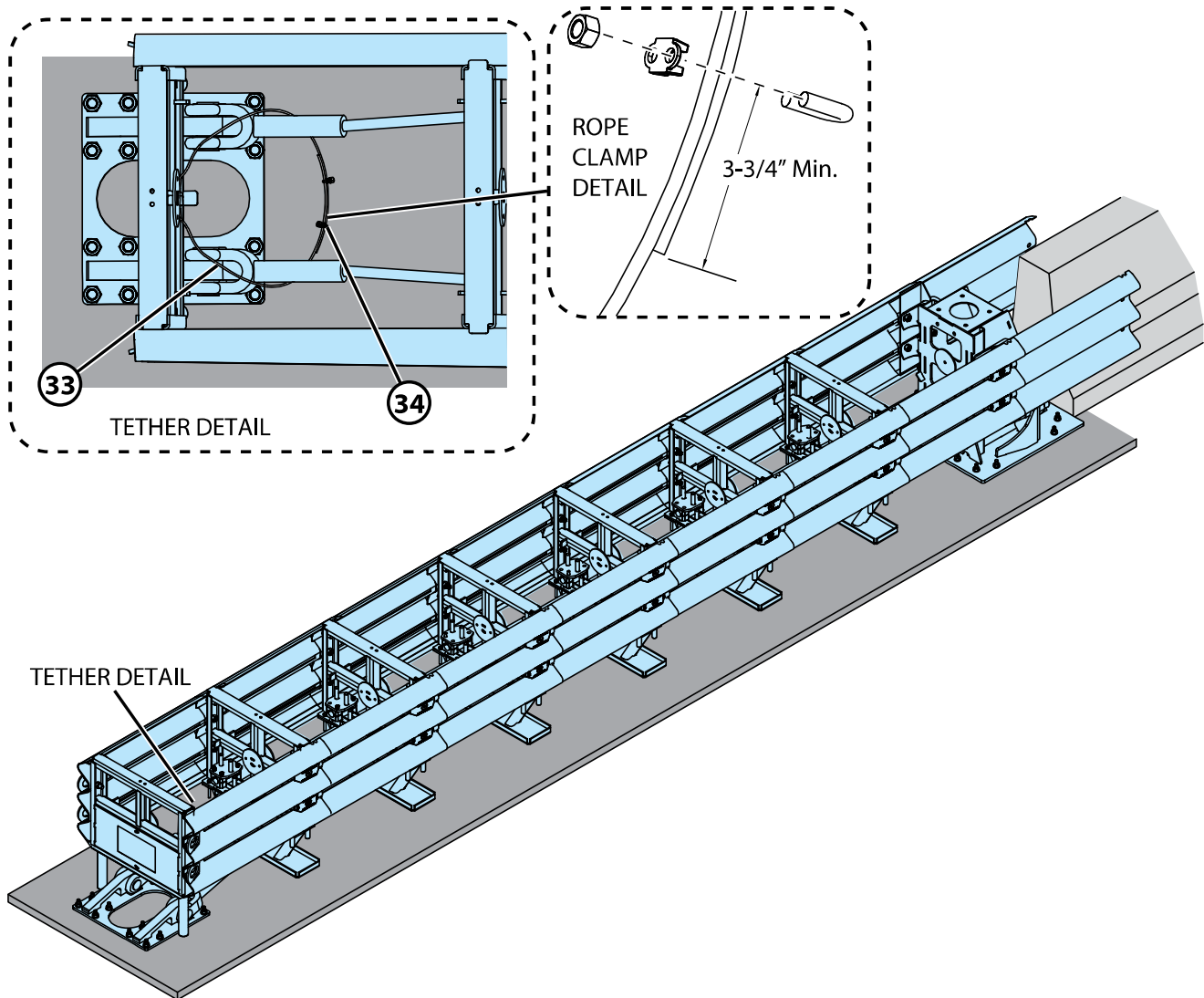
6.4 Pull Midsupport upstream to ensure panel slots are fully extended.

6.5 Repeat step 6.3 as necessary for the appropriate test level as needed.

6.6 Once the last Mid-Support has been connected to the Slider Panels, the Front Support may now be installed to the front of the system in addition to the Tow Hook Kit (item 27). **Torque to 120 ft-lbs (160 N-m).**

NOTE: Tow Hooks have the crescent end facing upstream.

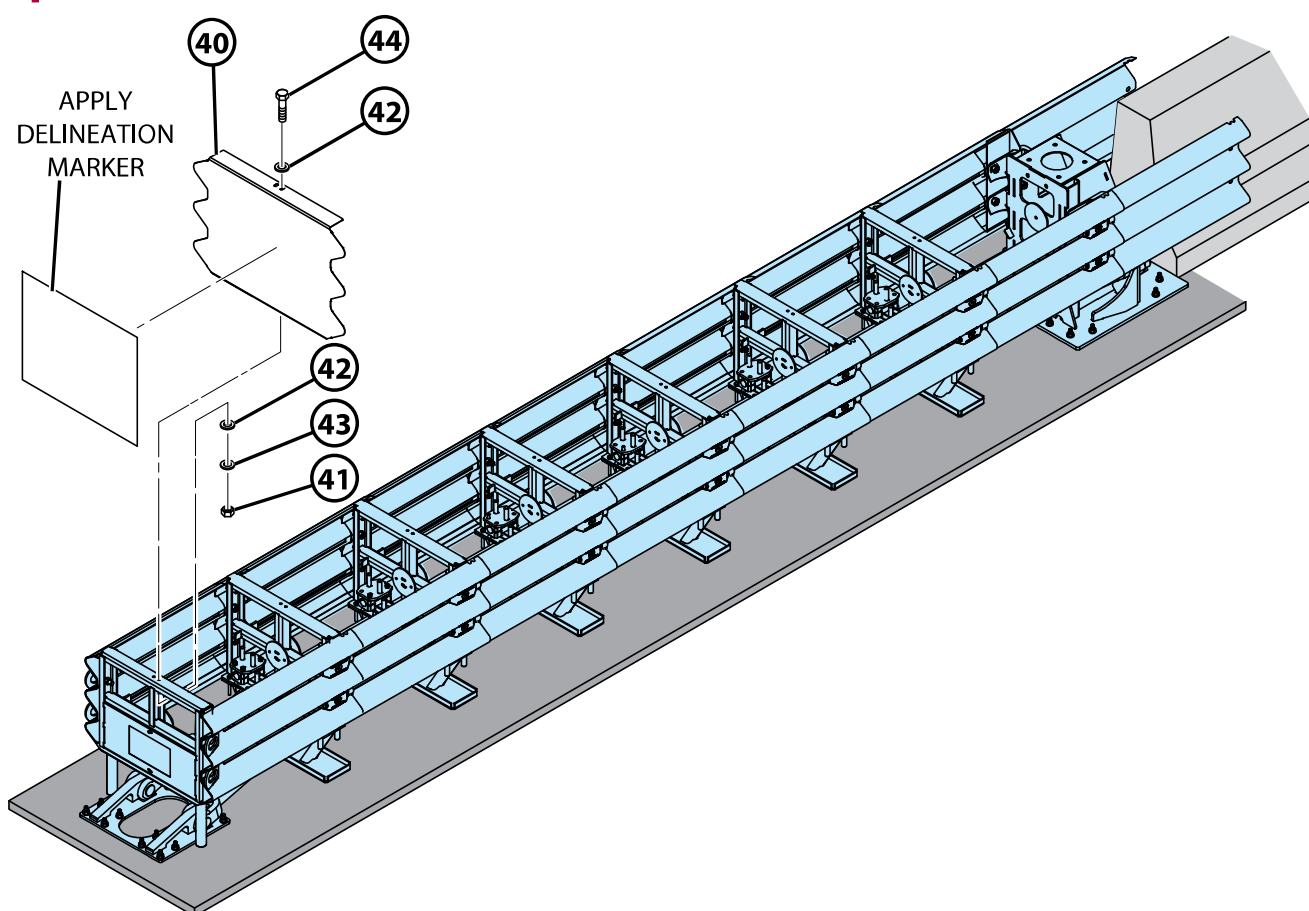
Step 7 - Tether Kit Installation



Item #	Part #	Description	QTY
32	BSI-1709083-KT	Tether Kit, TAU-M	1
33	4000316	3/16" Galvanized Tether	1
34	4000317	3/16" Galvanized Wire Rope Clamp	2

- 7.1 Loop the 3/16" diameter wire rope (item 33) through the Front Support frame as shown above and under the system Cable Assemblies as shown in the above illustration.
- 7.2 Overlap wire rope a minimum of 3-3/4" on both sides and secure the wire rope with the provided cable clamps (item 34). Ensure that the orientation of the cable clamp has the U-bolt on the side of the cut end of the wire rope.

Step 8 - Delineation Bracket Installation



Item #	Part #	Description	QTY
39	BSI-1808034-KT	Delineation HW Kit, TAU-M	1
40	BSI-1708027-00	Bracket, Delineation, TAU-M	1
41	2001809	Nut HN 3/8-16, Gr5, Geomet	2
42	2001810	Washer 3/8" Std, Geomet	4
43	2001811	Washer SL 3/8" Std, Geomet	2
44	2001816	C-Scr HH 3/8-16 x 1-1/2", Gr5, Geomet	2

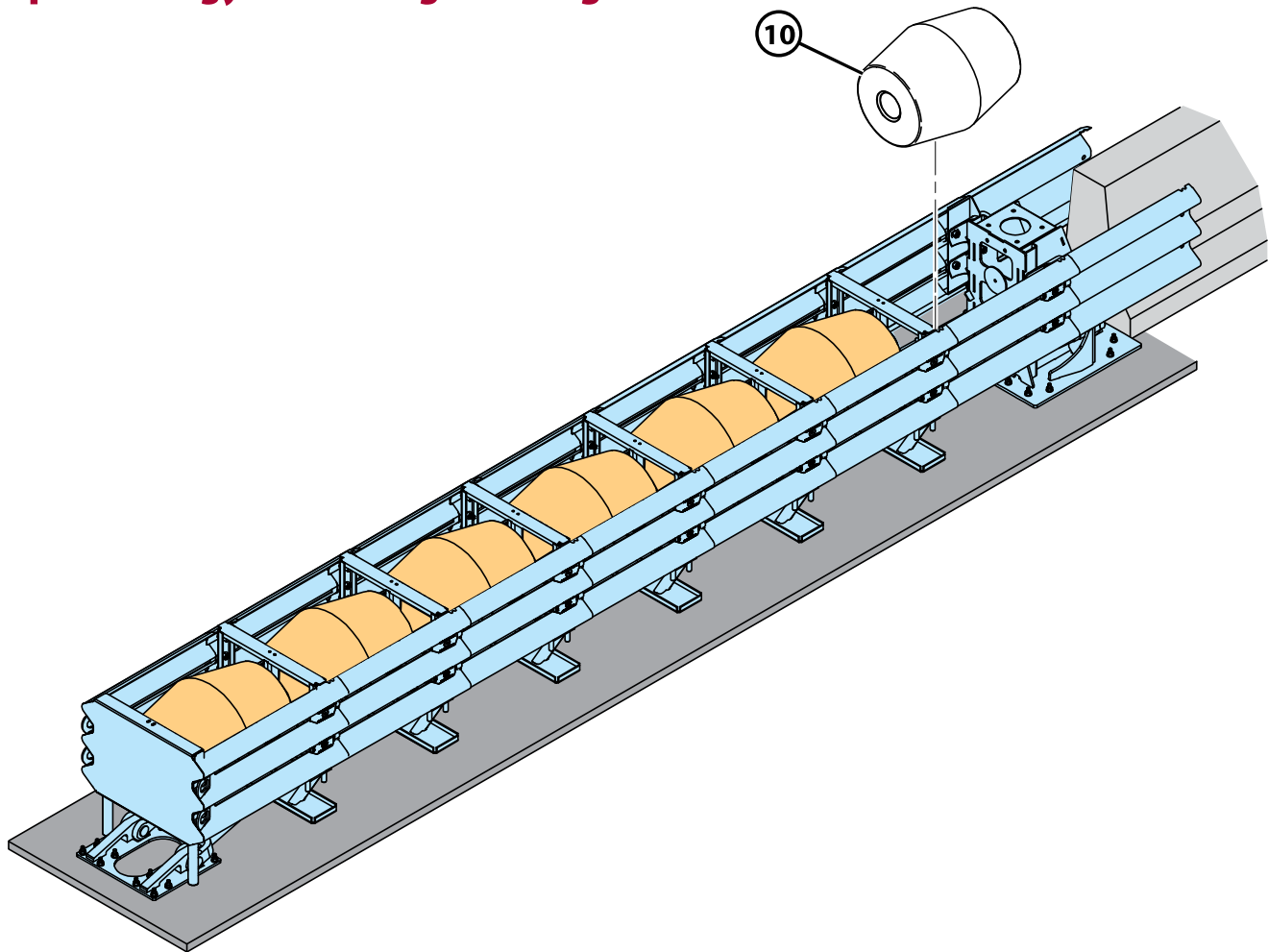
8.1 Attach Delineation Bracket (item 40) to the Front Support as shown.

PRO-TIP: Hook the bottom of the bracket under the Front Support frame first, then push the bracket flush to the Front Support face and align the delineation slot with the Front Support holes.

8.2 Secure with supplied hardware as shown.

8.3 Apply delineation decal as per Federal, State, or Local Standards.

Step 9 - Energy Absorbing Cartridge Installation



Item #	Part #	Description	QTY	
			TL-2	TL-3
10	B010722	Cartridge, TAU-II, Type B, Energy Absorbing	4	7

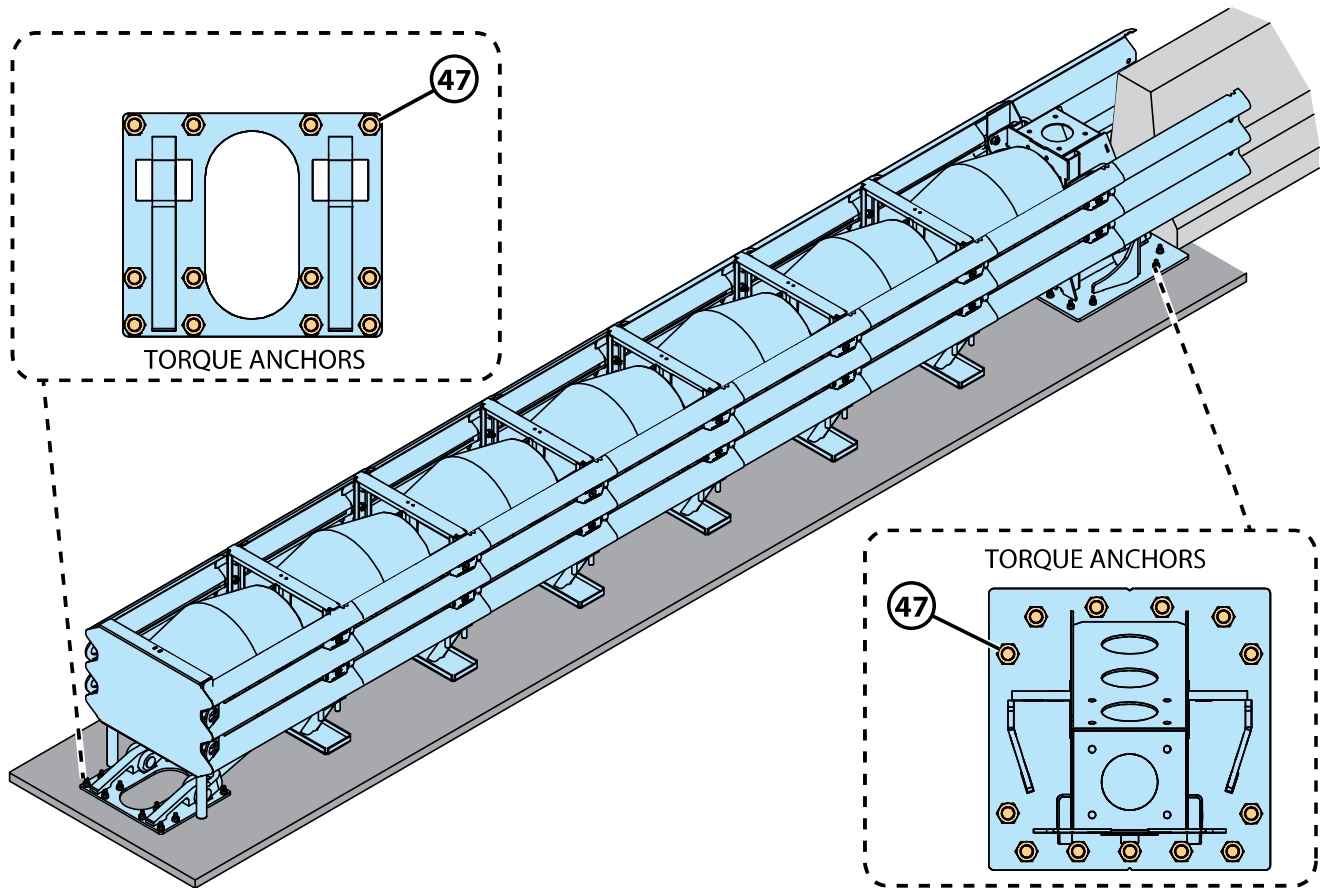
9.1 Drop in Energy Absorbing Cartridges (EACs) (item 10) into each bay.

9.2 Ensure that the two venting holes are facing towards the backstop.

9.3 Ensure that the text "THIS SIDE UP" on cartridges is facing upward.

⚠ WARNING EACs must be seated fully onto the tabs in each bay and in the correct orientation.

Step 10 - Torque Anchors and Cables (Concrete)

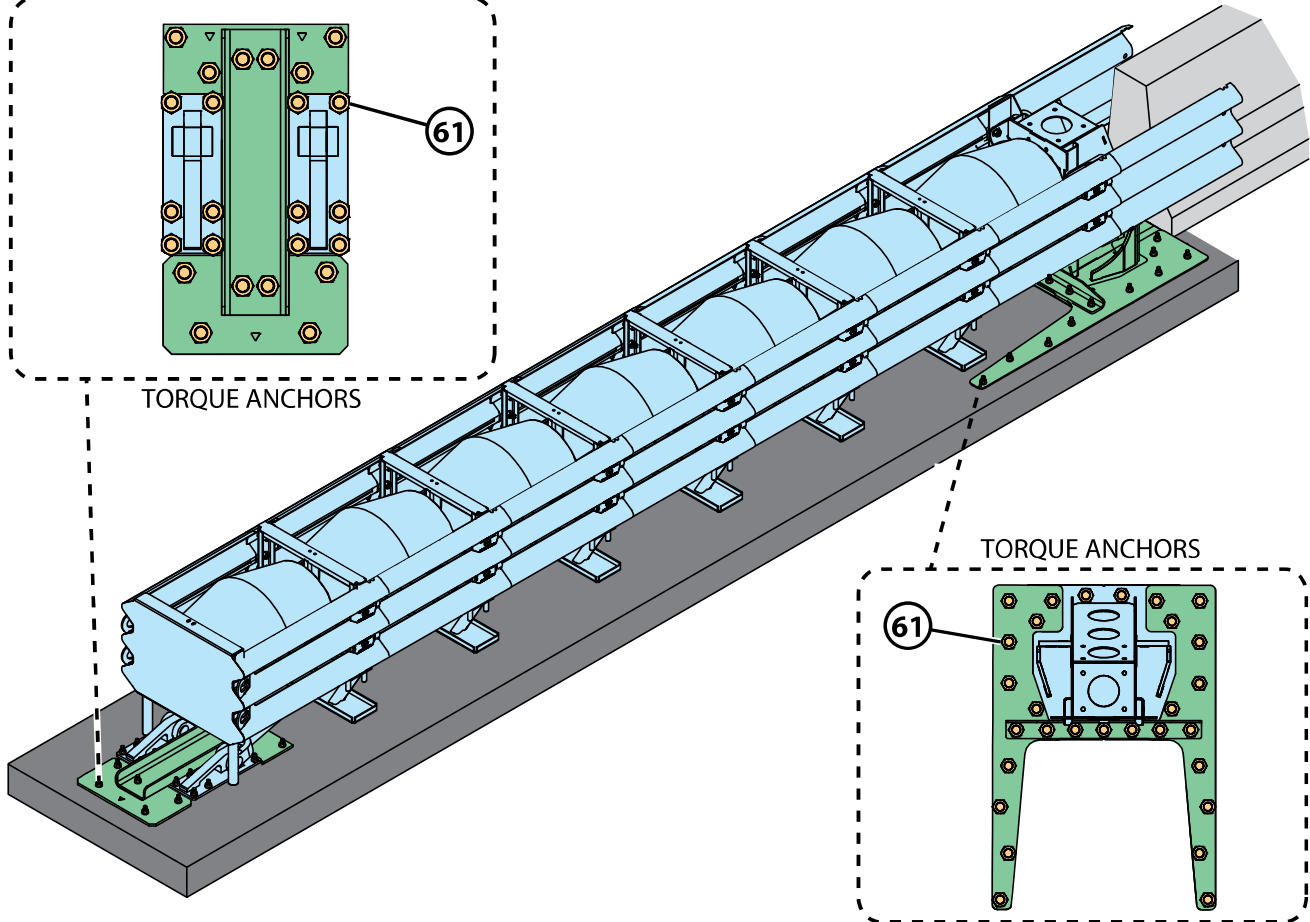


10.1 Ensure that the epoxy has cured per manufacturer's instruction. See epoxy cartridge.

10.2 **Torque anchors to 120 ft-lbs (160 N-m).**

⚠ WARNING Torque anchors to proper specifications.

Step 10 (Cont.) - Torque Anchors and Cables (Asphalt)

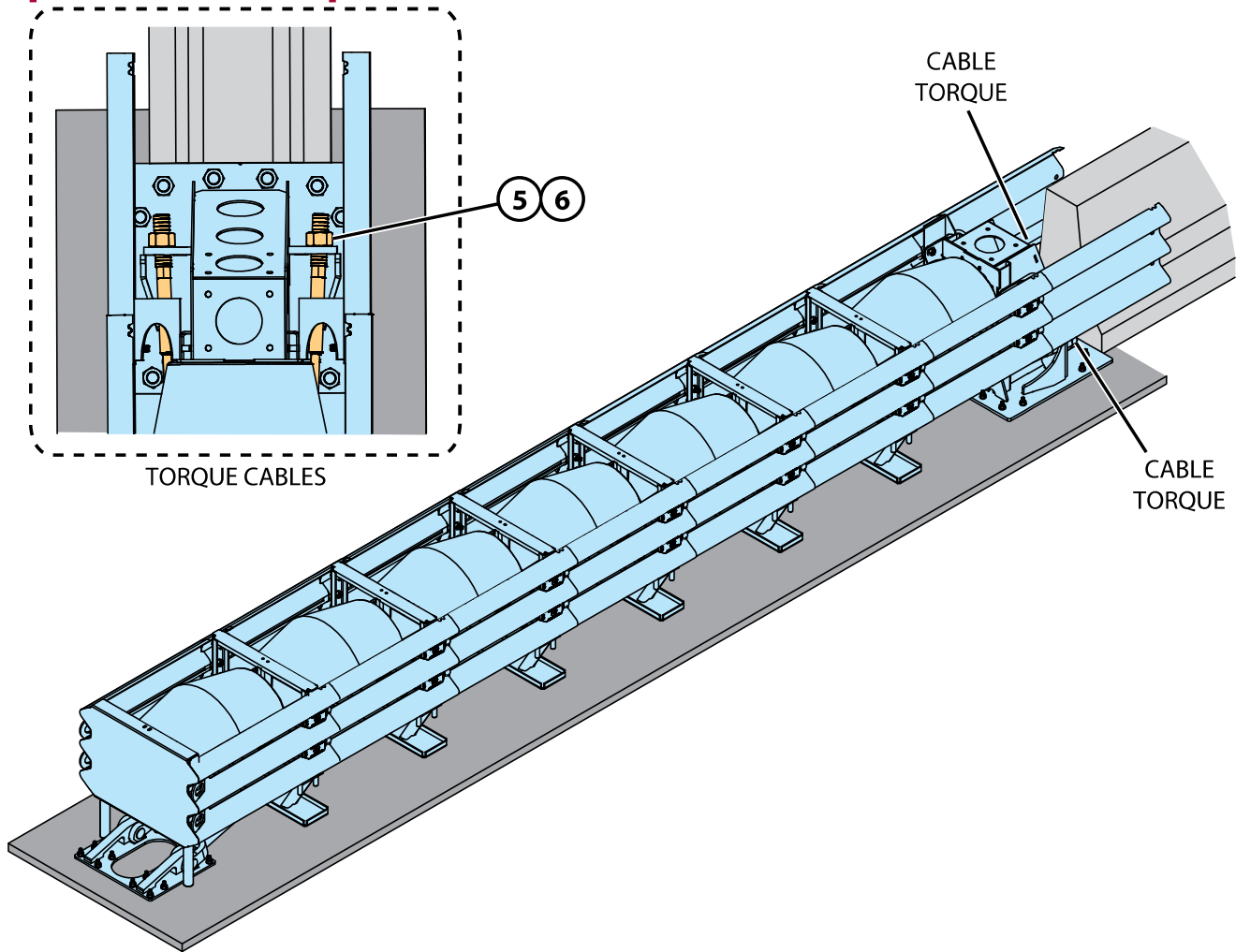


10.1 Ensure that the epoxy has cured per manufacturer's instruction. See epoxy cartridge.

10.2 **Torque anchors to 5 ft-lbs (8 N-m).**

⚠ WARNING Torque anchors to proper specifications.

Step 10 (Cont.) - Torque Anchors and Cables



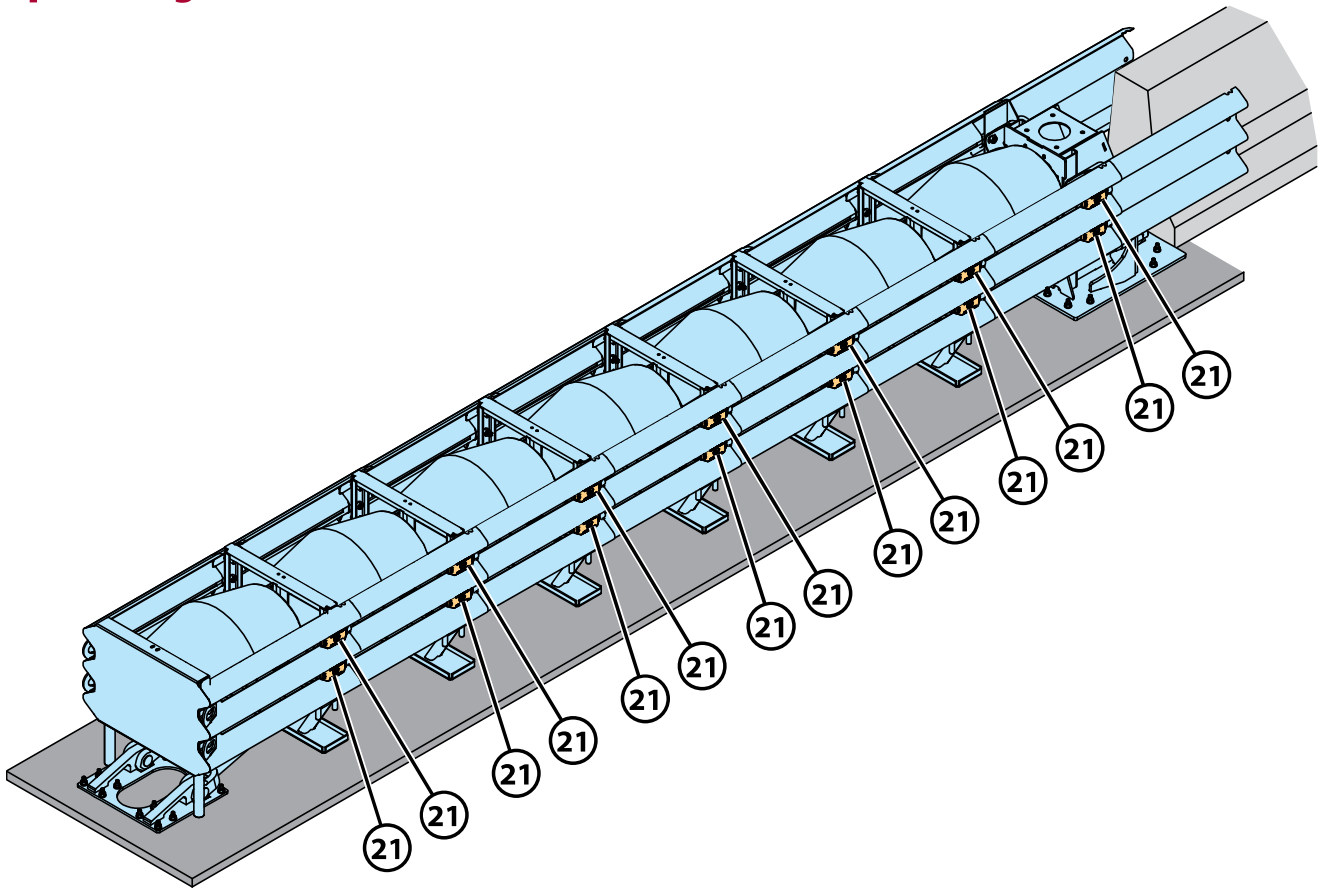
10.3 Ensure that the Cable Guides are fully seated and the clevis end of Cable Assemblies are secured to the Front Cable Anchor.

10.4 Use the provided socket and cable swage key (or pipe wrench of adequate size) to prevent Cable Assembly from spinning while tightening nut. Torque each Cable Assembly.

⚠ DANGER TORQUE CABLES TO PROPER SPECIFICATIONS.

Concrete	500 ft-lbs (680 N-m)
Asphalt	120 ft-lbs (160 N-m)

Step 11 - Tighten Slider Bolts



11.1 Using provided 1/2" Allen socket, tighten the Slider bolts on all Mid-Supports. There is no torque requirement for the Slider bolts. Ensure panels are fully nested.

⚠ DANGER PANELS MUST BE FULLY NESTED AND SLIDER BOLTS TIGHTENED TO ENSURE PROPER FUNCTION OF PANELS.

PRO-TIP: Use screw driver (flat or Phillips) to ensure Slider Shims seat in panel slot before tightening Slider bolts.

Upgrade a TAU-II™ System to a TAU-M™ System

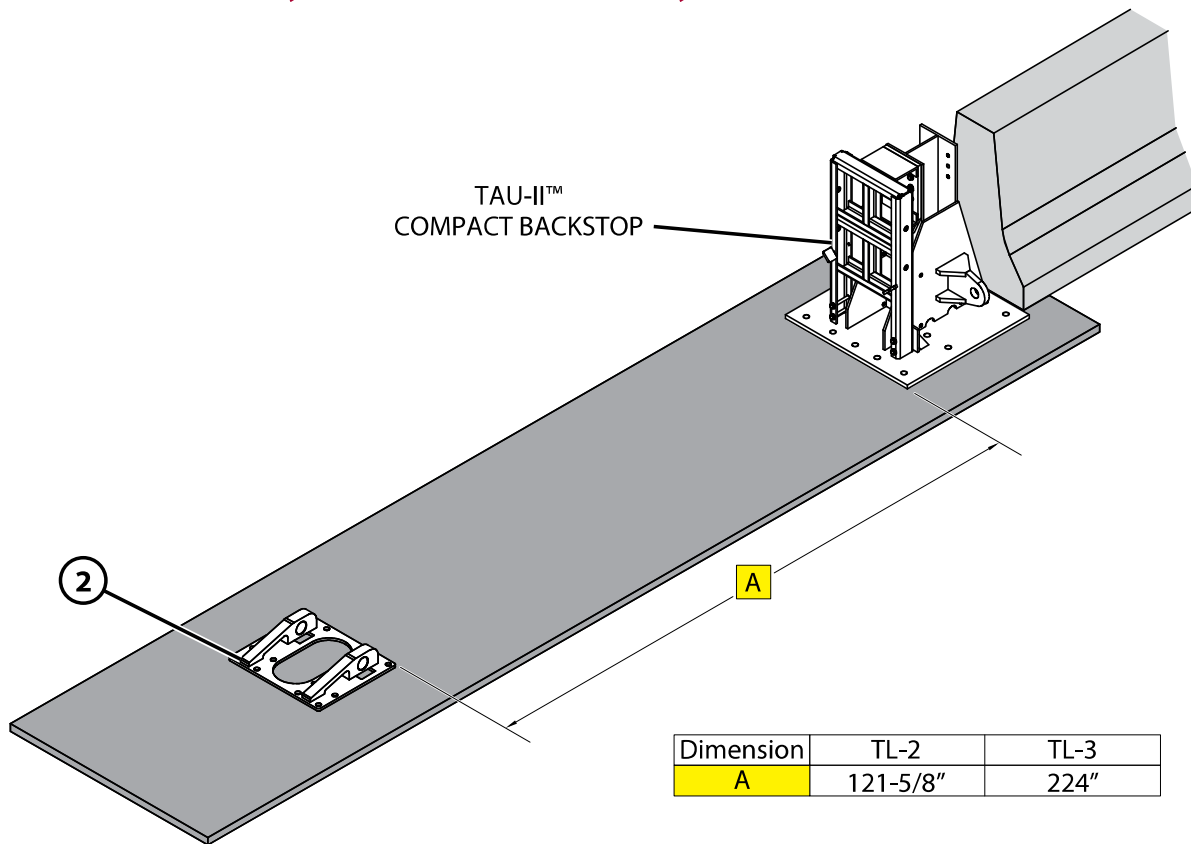
TAU-M™ is designed with the intent to be a kit-able system, where existing TAU-II™ systems (tested to NCRHP 350) can be converted to the MASH system by swapping out certain components.

Listed are the components from the TAU-II™ system that may be used in the TAU-M™ system.

- Compact Backstop, only for concrete applications. **Asphalt must use TAU-M™ Compact Backstop**
- Mid-Supports
- Front Support Assembly
- Slider Kits
- Pipe Panel Mounts
- Type B EACs

In addition to the reusable TAU-II™ components, include all parts in the appropriate 350 to MASH Upgrade Kit, found on page 15.

Upgrade a TAU-II™ System to a TAU-M™ System (Cont.)



The following steps must be followed to convert a TAU-II™ system to a TAU-M™ system.

Step 1. Disassemble TAU-II™ system.

- When installing in concrete, the TAU-II™ Compact Backstop with existing End Panel Mounts may be utilized.
- When installing in asphalt, attach the End Panel Mounts to the TAU-M™ Compact Backstop.

Step 2. Replace TAU-II™ Front Cable Anchor with TAU-M™ Front Cable Anchor (item 2).

- Position away from the front of the Compact Backstop base plate according to the above table.

Upgrade a TAU-II™ System to a TAU-M™ System (Cont.)

Step 3. Reduce or increase number of bays compliant with the TAU-M™ Test Level.

- TL-2 = 4 Bays (3 Mid-Supports)
- TL-3 = 7 Bays (6 Mid-Supports)

Step 4. Replace Cable Assemblies with MASH compliant Cable Assemblies (1-1/8" diameter)

Step 5. Install MASH Cable Guides (single piece) using the provided hardware.

Step 6. Replace TAU-II™ panels with the TAU-M™ (indicated by "M" notch) Sliding and End Panels, using the existing Slider Kits and TAU-M™ Slider Shims (item 26).

- Follow step 6 of page 31 for installation instructions.

Step 7. Replace Type A cartridges with Type B cartridges.

Step 8. Follow Steps 9, 10, and 11 from TAU-M™ on pages 36 through 40.

Asphalt Applications

For asphalt applications the TAU-M™ requires the use of the TAU-M™ backstop in addition to the parts listed on the 350 to MASH Upgrade Kit – Asphalt BOM on page 16. **DO NOT USE TAU-II™ Backstop in asphalt applications.**

Inspector Checklist

Confirm all items in the checklist have been properly completed and hardware is tightened.

Concrete Installation Checklist

Inspection		
Date	By	Item
		Delineation Bracket is attached to Front Support. (Step 8, Page 35.)
		Ensure Tether Kit is installed. With 3-3/4" minimum on each side of cable clamp. (Step 7, Page 34.)
		Tow Hooks are installed with crescent end facing upstream. (Step 6, Page 33.)
		Anchor spacing, 121- 5/8" (TL-2), 224" (TL-3) between base plates of Front Cable Anchor and Compact Backstop. (Step 1, Page 23.)
		Cable Guides are seated flush on Mid-Support Assemblies. (Step 4, Page 29.)
		Cable Guide Torque 30 ft-lbf (48 N-m). (Step 4, Page 29.)
		Slider Panel lapping with "M" notch downstream side towards backstop. (Step 6, Page 31.)
		Slider Panels must overlap the preceding downstream panel on outside. (Step 6, Page 33.)
		Slider Shims are nested in the panel slots. (Step 6, Page 31.)
		Slider bolts are tightened. (Step 11, Page 40.)
		End Panel Mounts are parallel to the end panels with "U" cut out facing upstream. (Step 2, Page 27.)
		End Panel Mount torque spec. 70 ft-lbf (95 N-m). (Step 2, Page 27.)
		Cables are torqued to 500 ft-lbf (680 N-m). No visible sagging. (Step 10, Page 39.)
		EACs are seated correctly on tabs. (Step 9, Page 36.)
		Text on the EACs are facing upward, two vent holes facing towards backstop. (Step 9, Page 36.)
		Anchor bolts torque to 120 ft-lbs (160 N-m). (Step 10, Page 37.)
Inspector signature:		Date:

Asphalt Installation Checklist

This check list is in addition to the above checklist.

Inspection		
Date	By	Item
		Rear Plate and Tie Channel are anchored flush to the foundation. (Step 1, Page 24.)
		For TL-3 systems Bays 6 & 7 have nested panels and stacked Slider Shims. (Step 6, Page 32.)
		Backstop Braces are anchored flush to the foundation. (Step 1, Page 26.)
		Crossmember is seated flush on top of Compact Backstop and Backstop Braces. (Step 1, Page 24.)
		Anchor bolts torqued to 5 ft-lbf (8 N-m). (Step 10, Page 38.)
		Cables torqued to 120 ft-lbf (160 N-m). (Step 10, Page 39.)
Inspector signature:		Date:

Maintenance Inspection

Crash cushions, like all roadside safety hardware, require inspection to ensure they are in acceptable working condition. Regular inspections of the TAU-M™ system is recommended and shall be made by the local highway authority. Frequency of the inspections shall be made based on site conditions, traffic volumes, and crash history. Please follow the local guidelines for frequency of inspections to ensure adequate repairs are made to the system. Walk-up inspections are recommended at least twice a year. The TAU-M™ system shall be inspected for damage after every impact. Repairs shall be made accordingly using Lindsay Transportation Solutions components as specified in the product drawings.

Visual Drive-By Inspections (Recommended Frequency – Monthly)

Check for:

- Damage caused by vehicle impacts
- Minor damage cause by impacts from road-side maintenance equipment
- Misalignment of panels
- Missing components
- Damage from vandalism

Maintenance Inspection (Cont.)

Walk-Up Inspections (Recommended Frequency – Twice a Year)

Before performing walk-up inspections, ensure traffic control is deployed in accordance with local guidelines.

Check for:

- Damage caused by vehicle impacts
- Damage caused by impacts from roadside maintenance equipment
- Misalignment of panels
- Missing components
- Vandalism
- Sagging cables
- Clear and dispose of any debris in and around the system
- Frayed cable
- Loose hardware

After inspection is complete, ensure all items identified during the inspection process are corrected. The TAU-M™ system shall be returned to proper condition as outlined in the installation instructions.

Maintenance Inspection (Cont.)

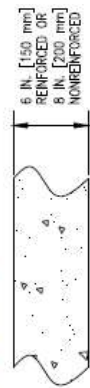
Walk-Up Inspection	
Item	Comment
Damage caused by vehicle impacts	
Minor damage caused by impacts from road-side maintenance equipment	
Misalignment of panels	
Missing components	
Vandalism	
Sagging cables	
Clear and dispose of any debris in and around the system	
Grading around system	
Loose hardware	
Inspector Signature:	Date:
Print Name:	Location:

Drawings FOUNDATION SPECIFICATIONS

FOUNDATION SPECIFICATIONS:

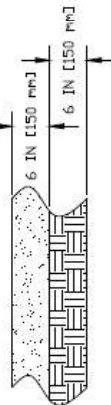
THE TAU-II CRASH CUSHION SYSTEM HAS BEEN DESIGNED TO ATTACH TO CONCRETE OR ASPHALT FOUNDATIONS. USE THE ANCHORAGE SPECIFIED BELOW DEPENDING ON THE FOUNDATION AT THE JOB SITE. REFERENCE UNIVERSAL TAU-II FOUNDATION DRAWINGS FOR FURTHER DETAIL.

1.) CONCRETE PAD



FOUNDATION: MINIMUM 6 IN. [150 mm] REINFORCED PCC PAD OR 8 IN. [200 mm] NONREINFORCED PCC PAD
ANCHORAGE: 3/4 IN. [20 mm] X 8 1/4 IN. [210 mm] GALVANIZED ANCHOR WITH 6 IN. [150 mm] EMBEDMENT

2.) ASPHALT OVER SUBBASE



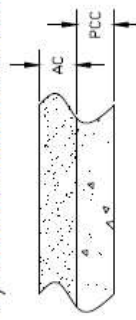
FOUNDATION: MINIMUM 6 IN. [150 mm] AC OVER 6 IN. [150 mm] COMPACTED DGA SUBBASE
ANCHORAGE: 3/4 IN. [20 mm] X 18 IN. [460 mm] GALVANIZED ANCHORS WITH 16 IN. [410 mm] EMBEDMENT
ASPHALT ANCHORING KIT REQUIRED

3.) ASPHALT ONLY



FOUNDATION: MINIMUM 8 IN. [200 mm] AC
ANCHORAGE: 3/4 IN. [20 mm] X 18 IN. [460 mm] GALVANIZED ANCHORS WITH 16 IN. [410 mm] EMBEDMENT
ASPHALT ANCHORING KIT REQUIRED

4.) ASPHALT OVER P.C. CONCRETE



FOUNDATION: AC OVER PCC
ANCHORAGE: 3/4 IN. [20 mm] GALVANIZED ANCHORS WITH MINIMUM 6 IN. [150 mm] EMBEDMENT IN PCC - ASPHALT ANCHORING KIT NOT REQUIRED
OR
IF 6 IN. [150 mm] EMBEDMENT IN PCC IS NOT POSSIBLE USE
3/4 IN. [20 mm] X 18 IN. [460 mm] GALVANIZED ANCHORS WITH 16 IN. [410 mm] EMBEDMENT - ASPHALT ANCHORING KIT REQUIRED

MATERIAL SPECIFICATIONS

PORTLAND CEMENT CONCRETE (PCC)



STONE AGGREGATE CONCRETE MIX, 4,000 PSI [28 MPa] MINIMUM COMPRESSIVE STRENGTH (SAMPLING PER ASTM C31-84 OR ASTM C42-84A, TESTING PER ASTM C39-94)

ASPHALTIC CONCRETE (AC)



AR-4000 A.C. (PER ASTM D3381 '83), 75° MAXIMUM, MEDIUM (TYPE A OR B) AGGREGATE
SIEVE SIZE
1" 100
3/4" 95-100
3/8" 85-80
No. 4 46-54
No. 8 36-40
No. 30 16-21
No. 200 3-8

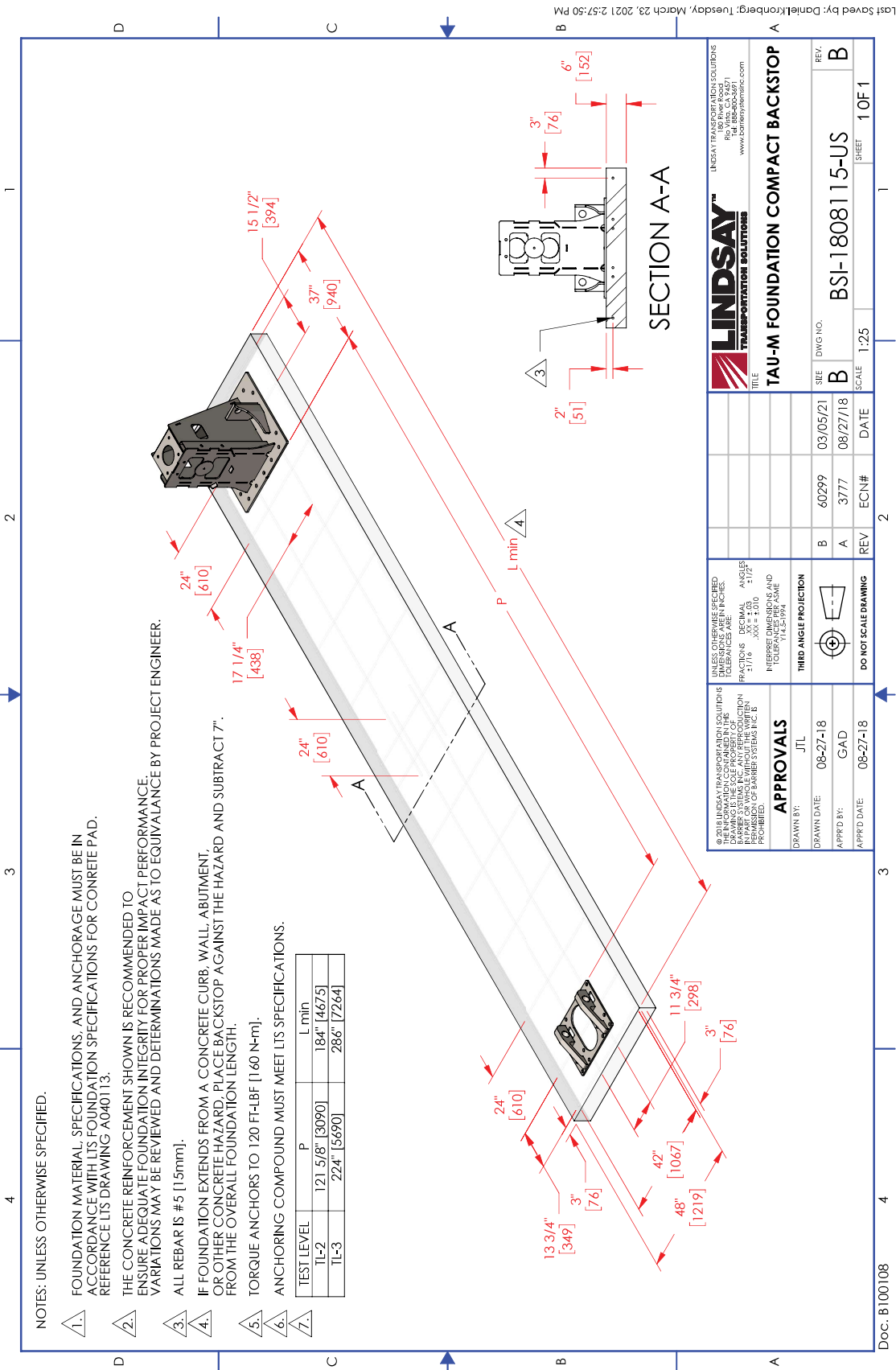
COMPACTED SUBBASE (DGA)



8 IN. [150 mm] MINIMUM DEPTH, 95% COMPACTION, CLASS 2 AGGREGATE
SIEVE SIZE
3" 100
2 1/2" 90-100
No. 4 40-90
No. 200 0-25

										SCALE: FULL		Standard Tolerance		MODEL DRAWING NUMBER		REV.			
												Angular $\pm 1/2^\circ$		A040113		A			
												Fractional $\pm 1/16$							
												Dec. XXX = $\pm .010$							
												Dec. XX = $\pm .030$		FOUNDATION SPECIFICATIONS					
												ISM							
												DRAWN BY		DATE				INIT.	
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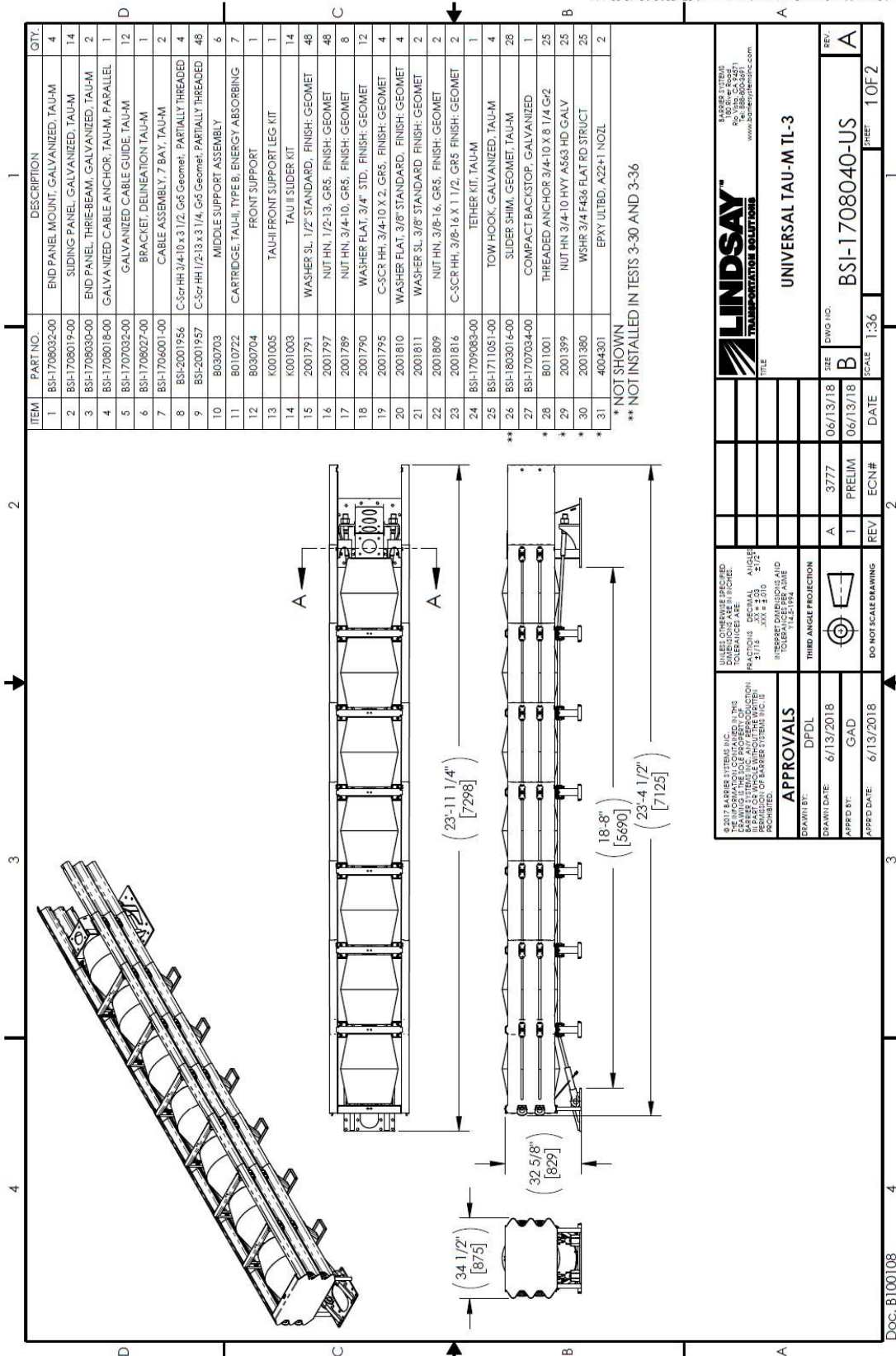
Drawings TAU-M FOUNDATION COMPACT BACKSTOP



LINDSAY™ TRANSPORTATION SOLUTIONS LINDSAY TRANSPORTATION SOLUTIONS 101 West 10th Street P.O. Box 1000 Tel. 888-603-3491 www.lindsaytransportsolutions.com		TITLE TAU-M FOUNDATION COMPACT BACKSTOP		REV. B BSI-1808115-US	
APPROVALS © 2018 LINDSAY TRANSPORTATION SOLUTIONS THE INFORMATION CONTAINED IN THIS DRAWING IS THE PROPERTY OF LINDSAY TRANSPORTATION SOLUTIONS. IT IS TO BE USED FOR THE PROJECT AND LOCATION SPECIFICALLY IDENTIFIED HEREIN. ANY REPRODUCTION OR TRANSMISSION OF THIS DRAWING WITHOUT THE WRITTEN PERMISSION OF LINDSAY TRANSPORTATION SOLUTIONS IS PROHIBITED. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. FRACTIONS: DECIMAL ANGLES: 1/16 .XXX 1/10 1/2 1/4 3/8 1/2 3/4 1 1 1/4 1 1/2 1 3/4 2 2 1/4 2 3/4 3 3 1/4 3 3/4 4 4 1/4 4 3/4 5 5 1/4 5 3/4 6 6 1/4 6 3/4 7 7 1/4 7 3/4 8 8 1/4 8 3/4 9 9 1/4 9 3/4 10 10 1/4 10 3/4 11 11 1/4 11 3/4 12 12 1/4 12 3/4 13 13 1/4 13 3/4 14 14 1/4 14 3/4 15 15 1/4 15 3/4 16 16 1/4 16 3/4 17 17 1/4 17 3/4 18 18 1/4 18 3/4 19 19 1/4 19 3/4 20 20 1/4 20 3/4 21 21 1/4 21 3/4 22 22 1/4 22 3/4 23 23 1/4 23 3/4 24 24 1/4 24 3/4 25 25 1/4 25 3/4 26 26 1/4 26 3/4 27 27 1/4 27 3/4 28 28 1/4 28 3/4 29 29 1/4 29 3/4 30 30 1/4 30 3/4 31 31 1/4 31 3/4 32 32 1/4 32 3/4 33 33 1/4 33 3/4 34 34 1/4 34 3/4 35 35 1/4 35 3/4 36 36 1/4 36 3/4 37 37 1/4 37 3/4 38 38 1/4 38 3/4 39 39 1/4 39 3/4 40 40 1/4 40 3/4 41 41 1/4 41 3/4 42 42 1/4 42 3/4 43 43 1/4 43 3/4 44 44 1/4 44 3/4 45 45 1/4 45 3/4 46 46 1/4 46 3/4 47 47 1/4 47 3/4 48 48 1/4 48 3/4 49 49 1/4 49 3/4 50 50 1/4 50 3/4 51 51 1/4 51 3/4 52 52 1/4 52 3/4 53 53 1/4 53 3/4 54 54 1/4 54 3/4 55 55 1/4 55 3/4 56 56 1/4 56 3/4 57 57 1/4 57 3/4 58 58 1/4 58 3/4 59 59 1/4 59 3/4 60 60 1/4 60 3/4 61 61 1/4 61 3/4 62 62 1/4 62 3/4 63 63 1/4 63 3/4 64 64 1/4 64 3/4 65 65 1/4 65 3/4 66 66 1/4 66 3/4 67 67 1/4 67 3/4 68 68 1/4 68 3/4 69 69 1/4 69 3/4 70 70 1/4 70 3/4 71 71 1/4 71 3/4 72 72 1/4 72 3/4 73 73 1/4 73 3/4 74 74 1/4 74 3/4 75 75 1/4 75 3/4 76 76 1/4 76 3/4 77 77 1/4 77 3/4 78 78 1/4 78 3/4 79 79 1/4 79 3/4 80 80 1/4 80 3/4 81 81 1/4 81 3/4 82 82 1/4 82 3/4 83 83 1/4 83 3/4 84 84 1/4 84 3/4 85 85 1/4 85 3/4 86 86 1/4 86 3/4 87 87 1/4 87 3/4 88 88 1/4 88 3/4 89 89 1/4 89 3/4 90 90 1/4 90 3/4 91 91 1/4 91 3/4 92 92 1/4 92 3/4 93 93 1/4 93 3/4 94 94 1/4 94 3/4 95 95 1/4 95 3/4 96 96 1/4 96 3/4 97 97 1/4 97 3/4 98 98 1/4 98 3/4 99 99 1/4 99 3/4 100 100 1/4 100 3/4 101 101 1/4 101 3/4 102 102 1/4 102 3/4 103 103 1/4 103 3/4 104 104 1/4 104 3/4 105 105 1/4 105 3/4 106 106 1/4 106 3/4 107 107 1/4 107 3/4 108 108 1/4 108 3/4 109 109 1/4 109 3/4 110 110 1/4 110 3/4 111 111 1/4 111 3/4 112 112 1/4 112 3/4 113 113 1/4 113 3/4 114 114 1/4 114 3/4 115 115 1/4 115 3/4 116 116 1/4 116 3/4 117 117 1/4 117 3/4 118 118 1/4 118 3/4 119 119 1/4 119 3/4 120 120 1/4 120 3/4 121 121 1/4 121 3/4 122 122 1/4 122 3/4 123 123 1/4 123 3/4 124 124 1/4 124 3/4 125 125 1/4 125 3/4 126 126 1/4 126 3/4 127 127 1/4 127 3/4 128 128 1/4 128 3/4 129 129 1/4 129 3/4 130 130 1/4 130 3/4 131 131 1/4 131 3/4 132 132 1/4 132 3/4 133 133 1/4 133 3/4 134 134 1/4 134 3/4 135 135 1/4 135 3/4 136 136 1/4 136 3/4 137 137 1/4 137 3/4 138 138 1/4 138 3/4 139 139 1/4 139 3/4 140 140 1/4 140 3/4 141 141 1/4 141 3/4 142 142 1/4 142 3/4 143 143 1/4 143 3/4 144 144 1/4 144 3/4 145 145 1/4 145 3/4 146 146 1/4 146 3/4 147 147 1/4 147 3/4 148 148 1/4 148 3/4 149 149 1/4 149 3/4 150 150 1/4 150 3/4 151 151 1/4 151 3/4 152 152 1/4 152 3/4 153 153 1/4 153 3/4 154 154 1/4 154 3/4 155 155 1/4 155 3/4 156 156 1/4 156 3/4 157 157 1/4 157 3/4 158 158 1/4 158 3/4 159 159 1/4 159 3/4 160 160 1/4 160 3/4 161 161 1/4 161 3/4 162 162 1/4 162 3/4 163 163 1/4 163 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3/4 414 414 1/4 414 3/4 415 415 1/4 415 3/4 416 416 1/4 416 3/4 417 417 1/4 417 3/4 418 418 1/4 418 3/4 419 419 1/4 419 3/4 420 420 1/4 420 3/4 421 421 1/4 421 3/4 422 422 1/4 422 3/4 423 423 1/4 423 3/4 424 424 1/4 424 3/4 425 425 1/4 425 3/4 426 426 1/4 426 3/4 427 427 1/4 427 3/4 428 428 1/4 428 3/4 429 429 1/4 429 3/4 430 430 1/4 430 3/4 431 431 1/4 431 3/4 432 432 1/4 432 3/4 433 433 1/4 433 3/4 434 434 1/4 434 3/4 435 435 1/4 435 3/4 436 436 1/4 436 3/4 437 437 1/4 437 3/4 438 438 1/4 438 3/4 439 439 1/4 439 3/4 440 440 1/4 440 3/4 441 441 1/4 441 3/4 442 442 1/4 442 3/4 443 443 1/4 443 3/4 444 444 1/4 444 3/4 445 445 1/4 445 3/4 446 446 1/4 446 3/4 447 447 1/4 447 3/4 448 448 1/4 448 3/4 449 449 1/4 449 3/4 450 450 1/4 450 3/4 451 451 1/4 451 3/4 452 452 1/4 452 3/4 453 453 1/4 453 3/4 454 454 1/4 454 3/4 455 455 1/4 455 3/4 456 456 1/4 456 3/4 457 457 1/4 457 3/4 458 458 1/4 458 3/4 459 459 1/4 459 3/4 460 460 1/4 460 3/4 461 461 1/4 461 3/4 462 462 1/4 462 3/4 463 463 1/4 463 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Drawings UNIVERSAL TAU-M TL-3

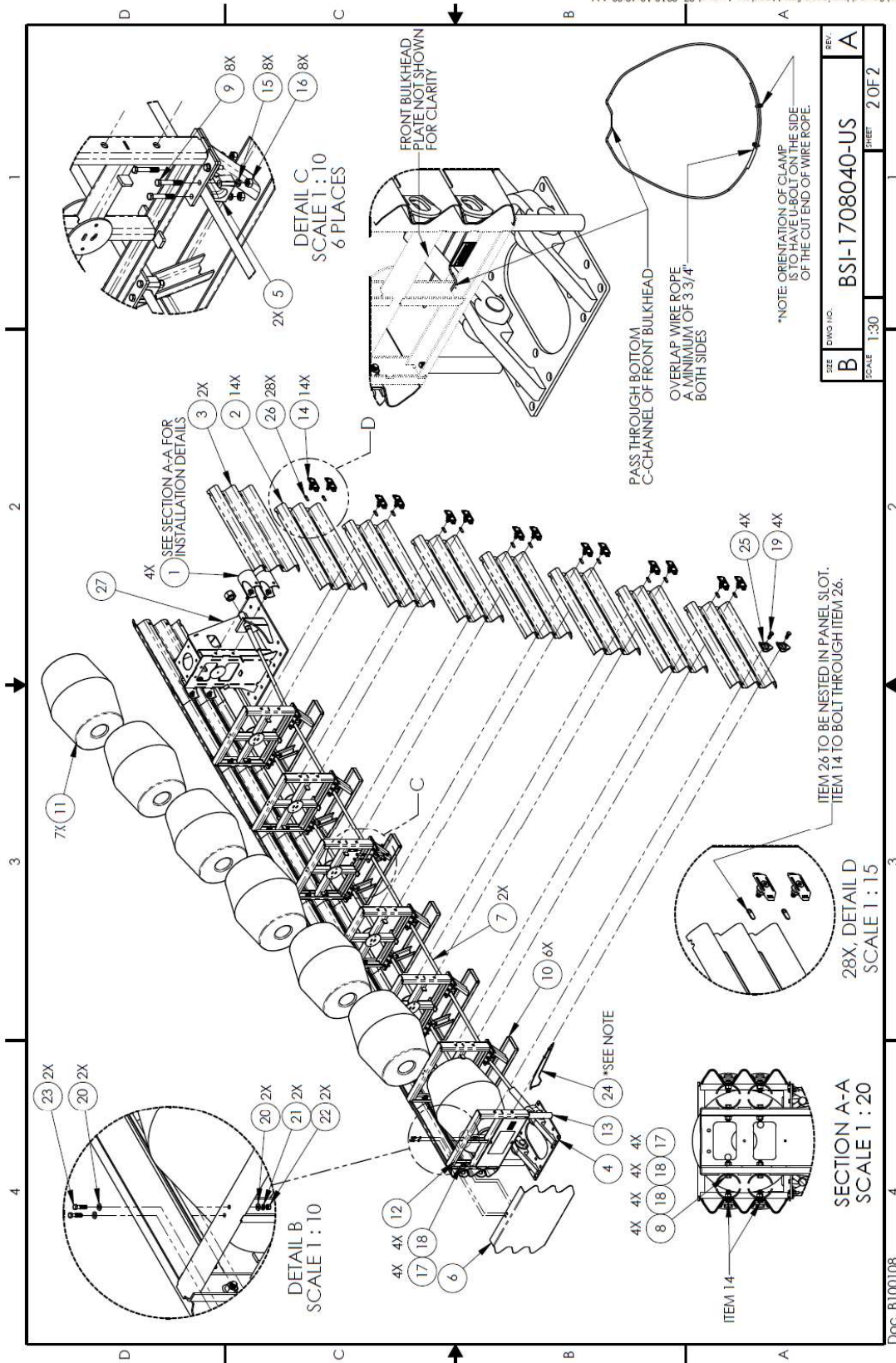
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LINDSAY TRANSPORTATION SOLUTIONS		142528 137846 160 River Road P.O. Box 1000 Tel: 888-800-3691 www.lindsaytransport.com	
UNIVERSAL TAU-M TL-3		BSI-1708040-US	
TITLE	REV	DATE	SCALE
UNIVERSAL TAU-M TL-3	B	06/13/18	1:36
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Drawings UNIVERSAL TAU-M TL-3

Lost Saved by: jason.ilm; Monday, August 27, 2018 10:42:03 AM



REV.	DESCRIPTION	DATE
A	BSI-1708040-US	2 OF 2
B	SCALE 1:30	

SECTION A-A	SCALE 1:20
28X, DETAIL D	SCALE 1:15

DETAIL B	SCALE 1:10
DETAIL C	SCALE 1:10

DETAIL D	SCALE 1:15
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SECTION A-A	SCALE 1:20
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28X, DETAIL D	SCALE 1:15
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DETAIL B	SCALE 1:10
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DETAIL C	SCALE 1:10
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DETAIL D	SCALE 1:15
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SECTION A-A	SCALE 1:20
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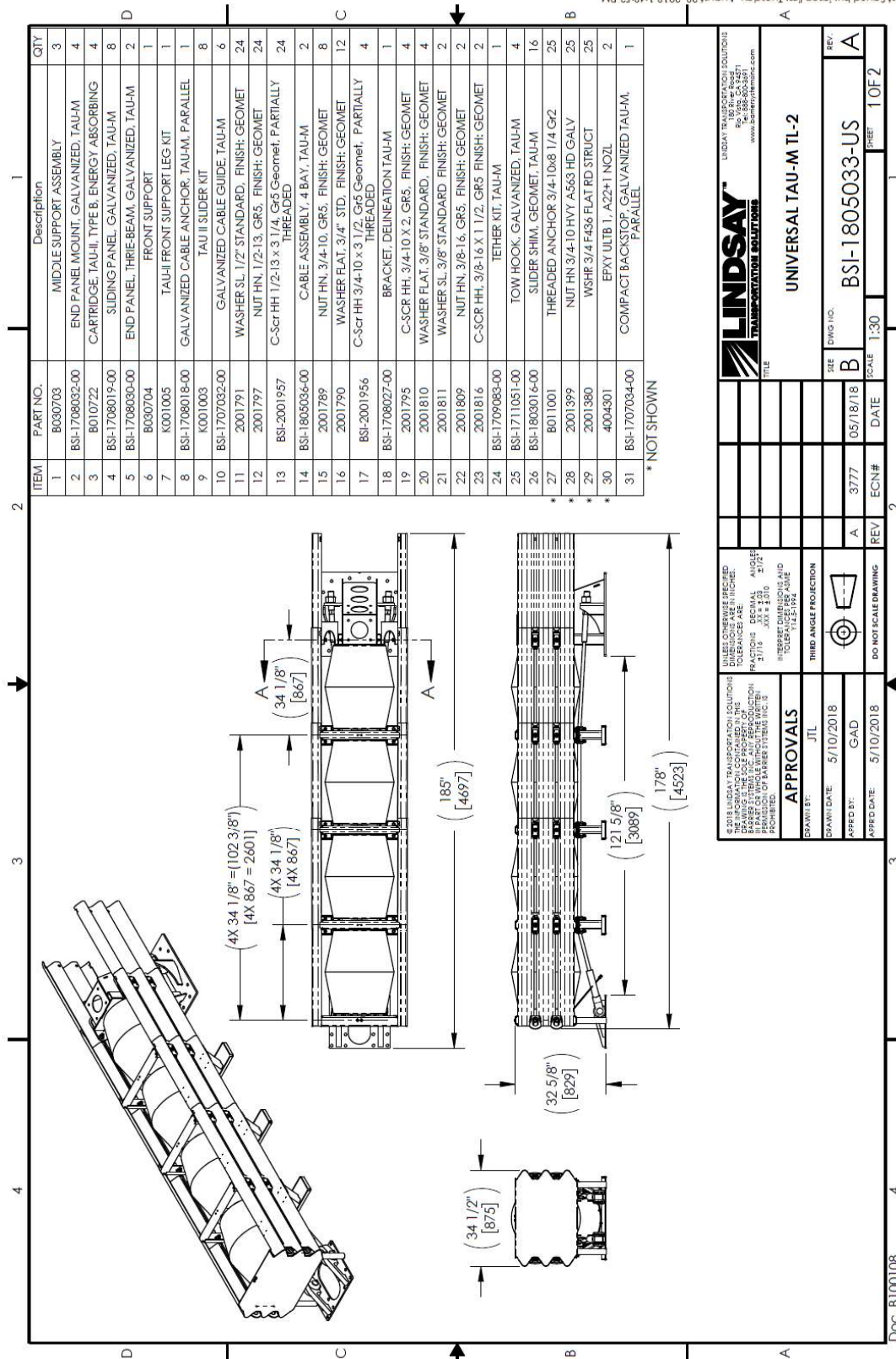
28X, DETAIL D	SCALE 1:15
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DETAIL B	SCALE 1:10
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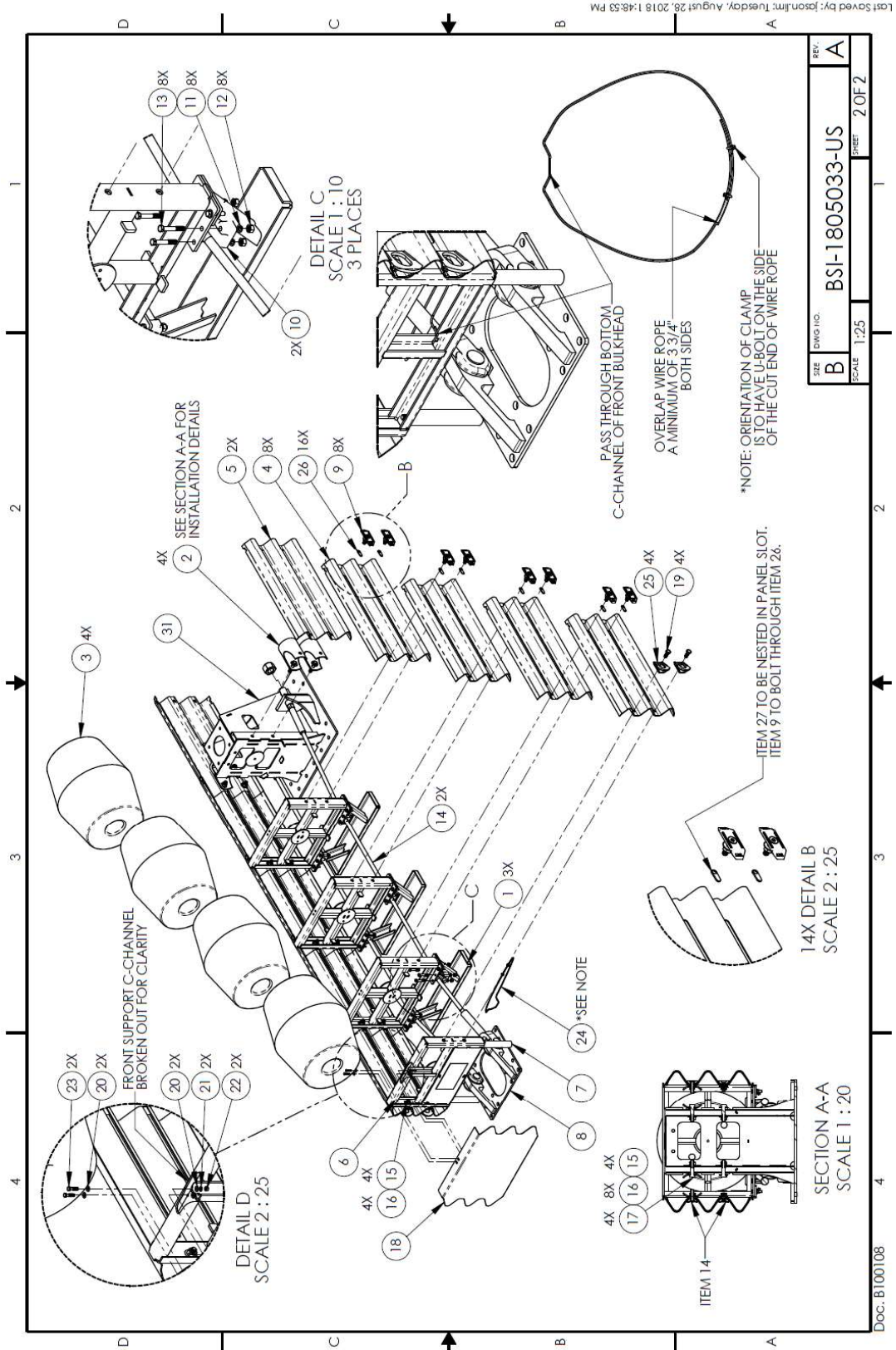
DETAIL C	SCALE 1:10
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Drawings UNIVERSAL TAU-M TL-2

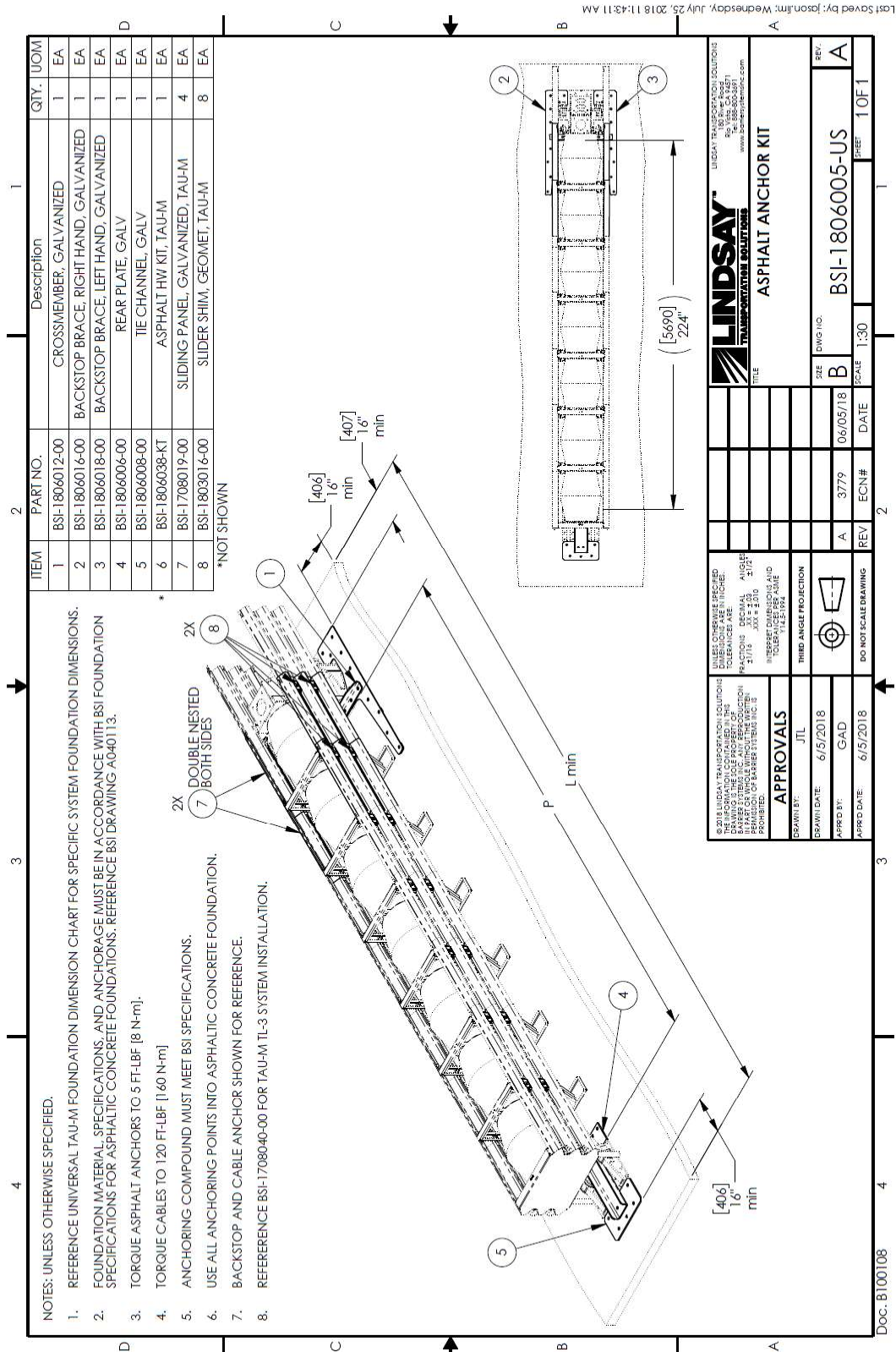
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Drawings UNIVERSAL TAU-M TL-2



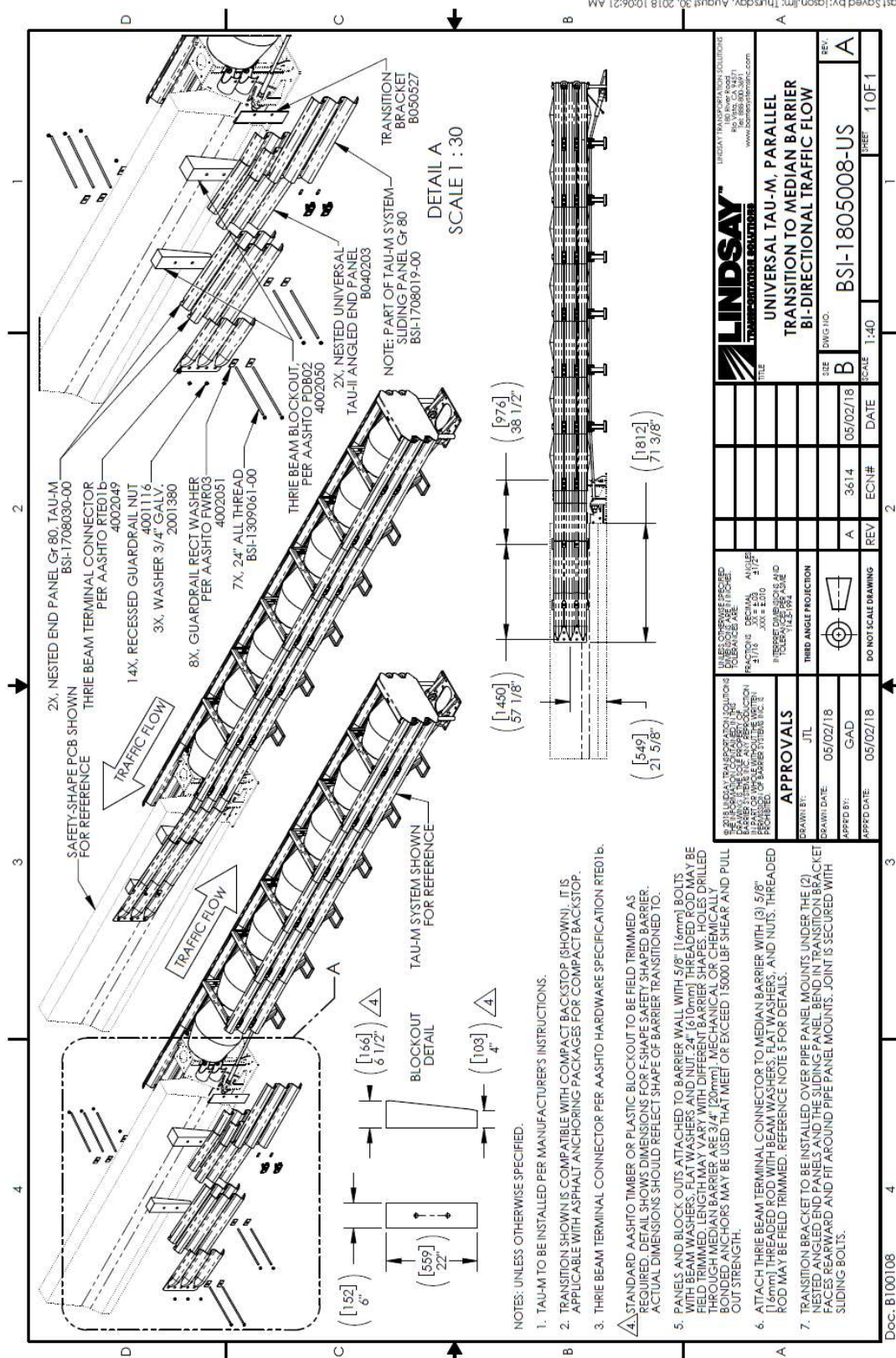
Drawings ASPHALT ANCHOR KIT



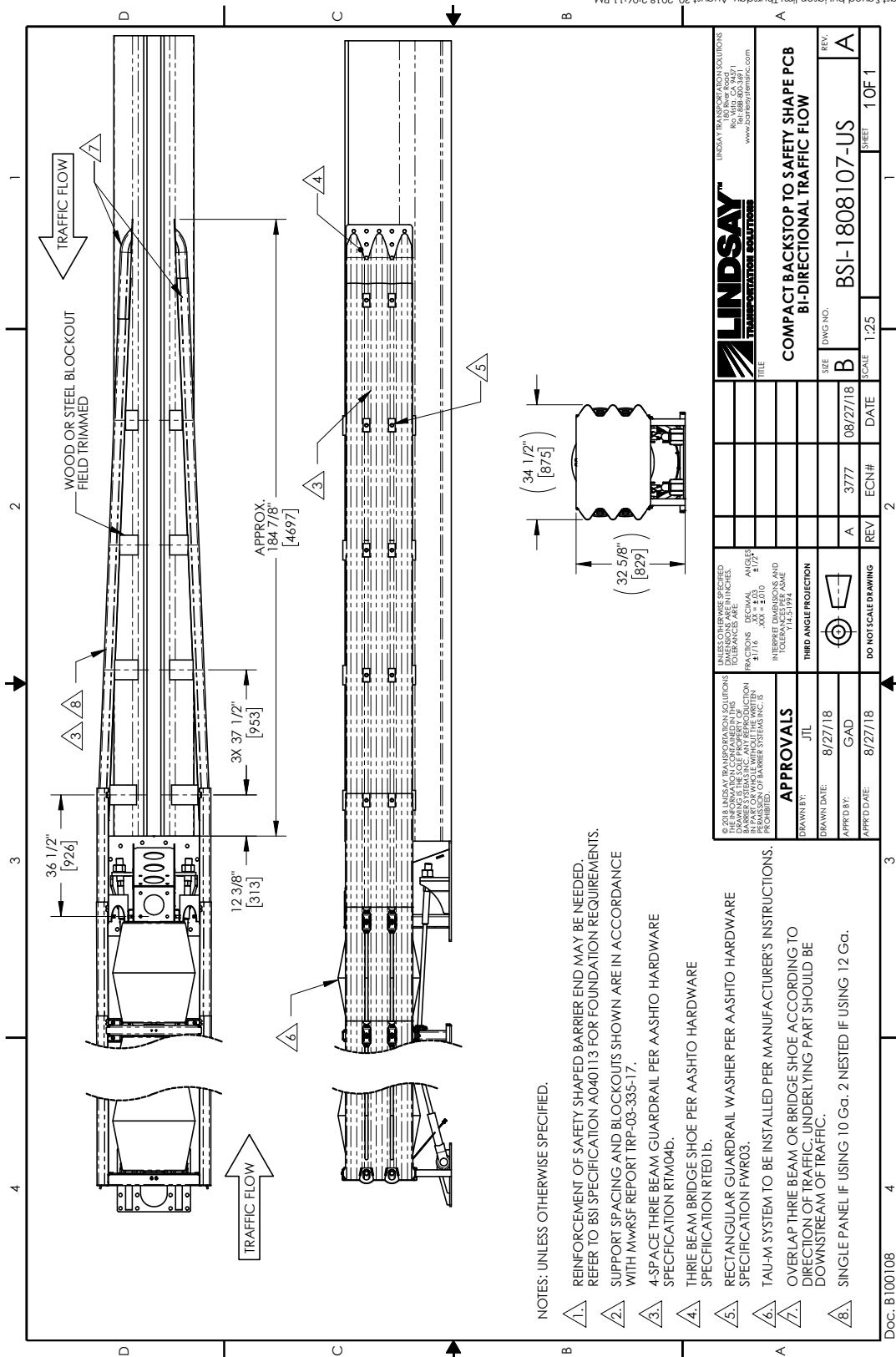
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		BSI-1806005-US	
ASPHALT ANCHOR KIT		REV. A	
SEE DWG NO. B		DATE 06/05/18	
REV. A		ECN# 3779	
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SHEET 1 OF 1		SHEET 1 OF 1	

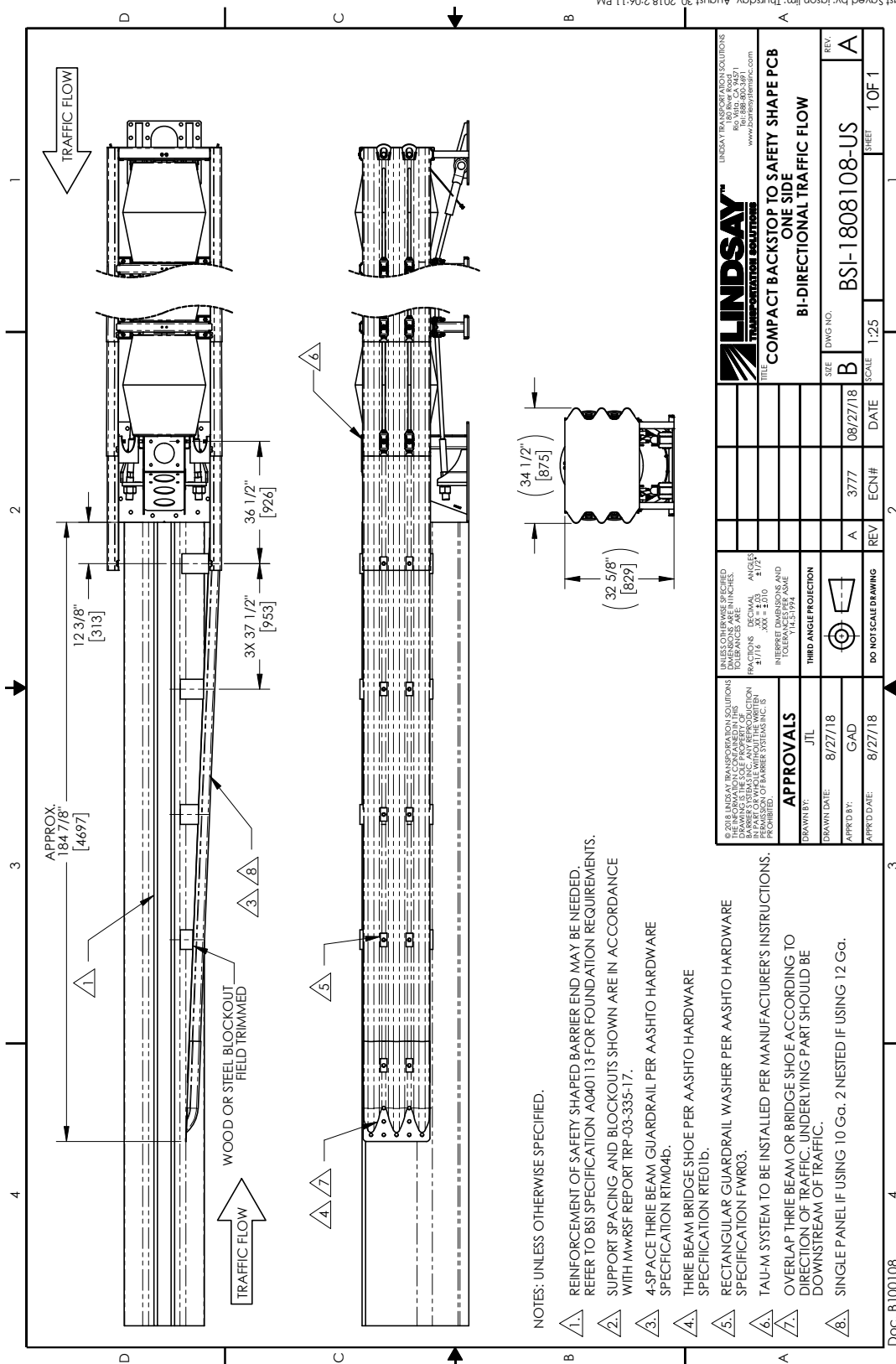
Drawings UNIVERSAL TAU-M PARALLEL TRANSITION TO MEDIAN BARRIER BI-DIRECTIONAL TRAFFIC FLOW



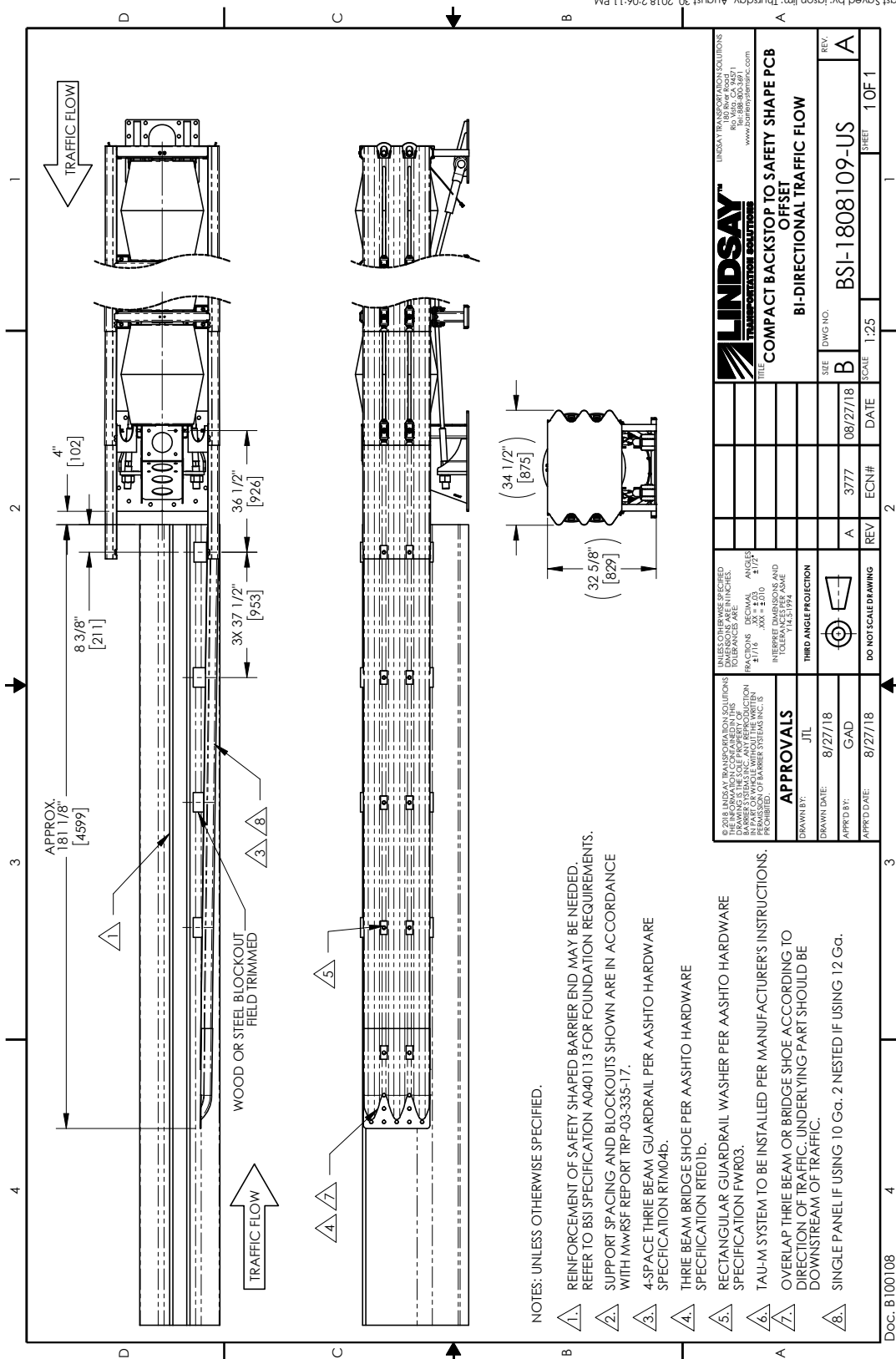
Drawings COMPACT BACKSTOP TO SAFETY PCB BI-DIRECTIONAL TRAFFIC FLOW



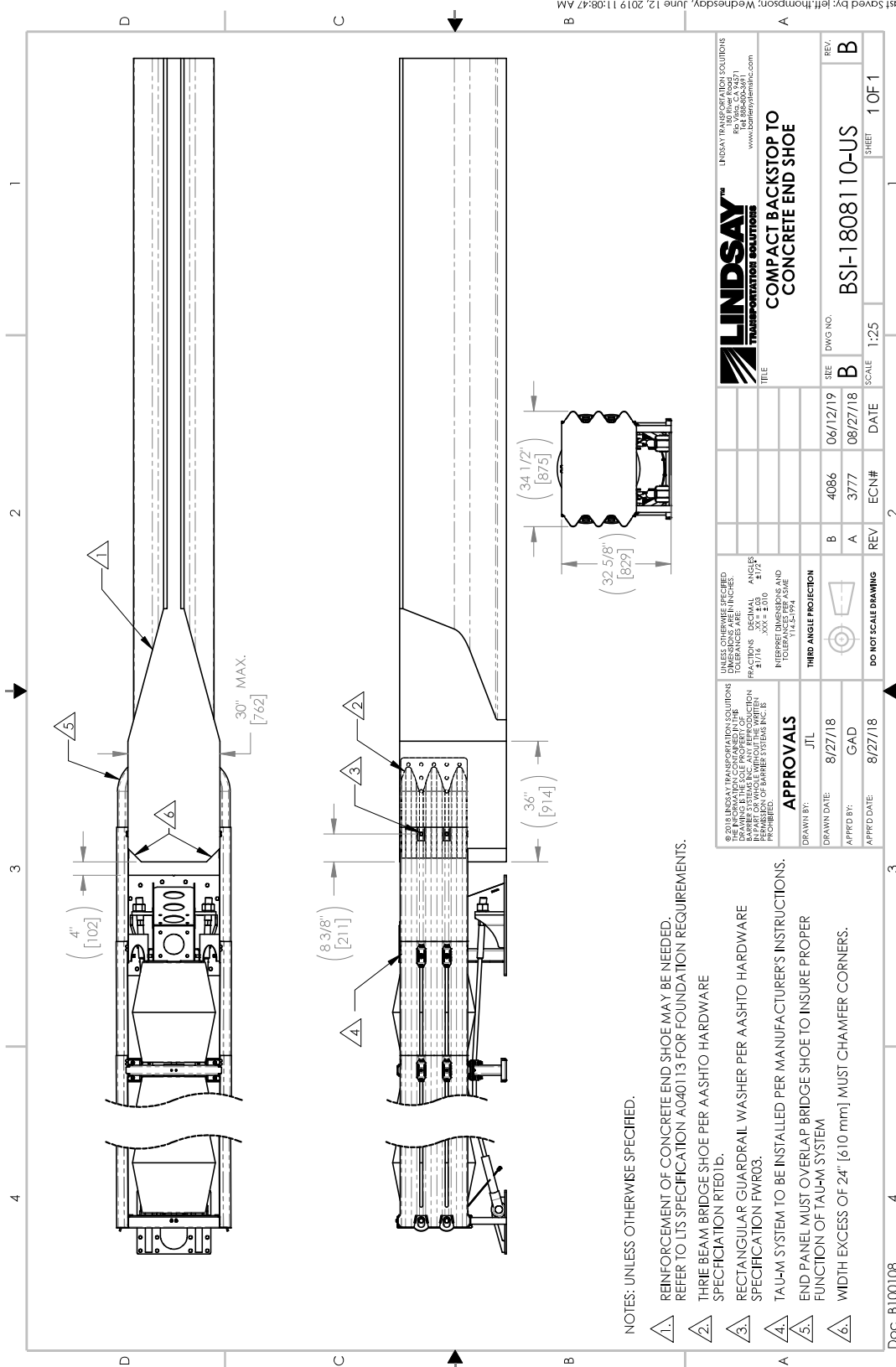
Drawings



Drawings

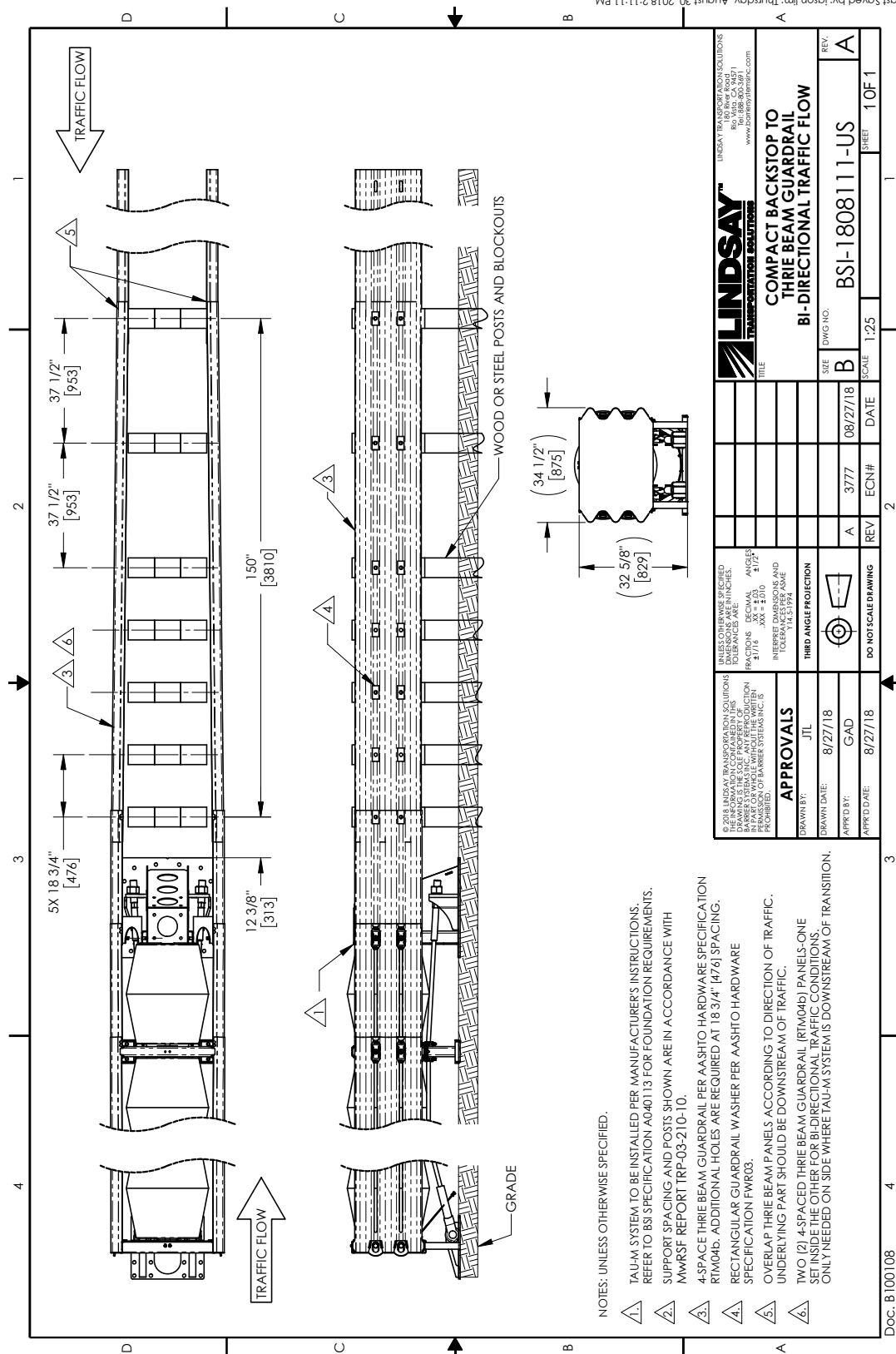


Drawings COMPACT BACKSTOP TO CONCRETE END SHOE

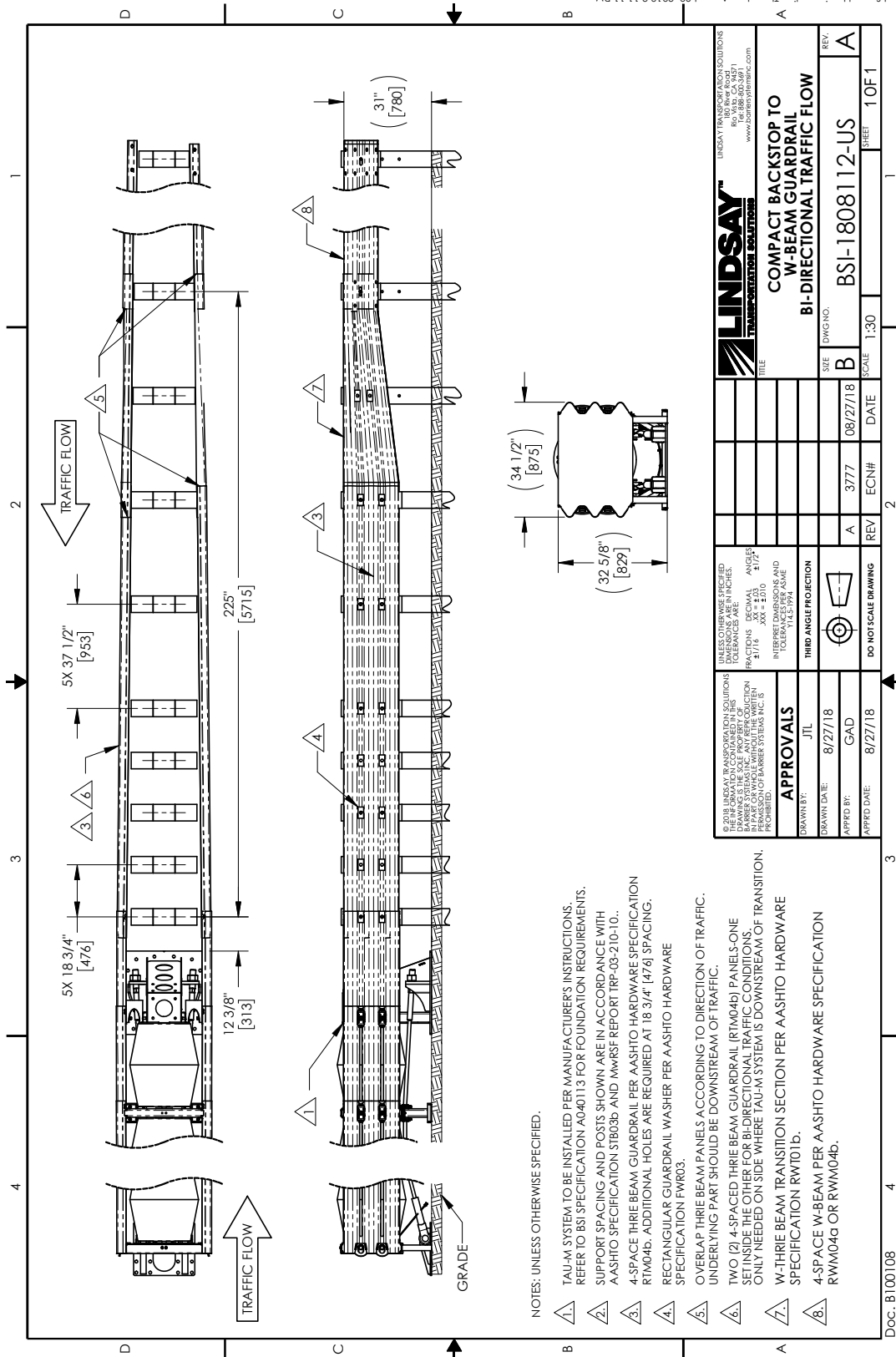


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Drawings COMPACT BACKSTOP TO THRIE BEAM GUARDRAIL BI-DIRECTIONAL TRAFFIC FLOW



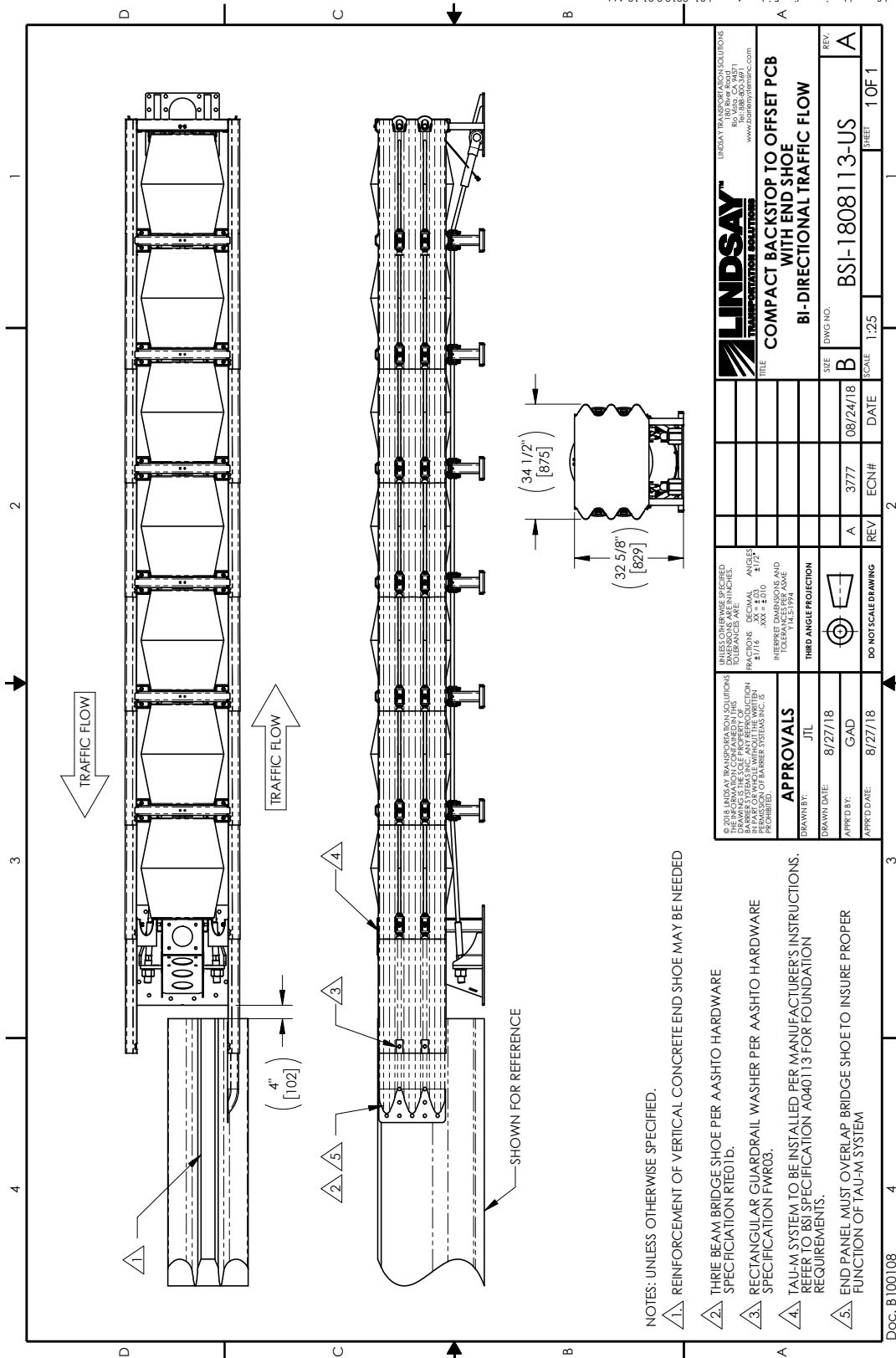
Drawings COMPACT BACKSTOP TO W-BEAM GUARDRAIL BI-DIRECTIONAL TRAFFIC FLOW



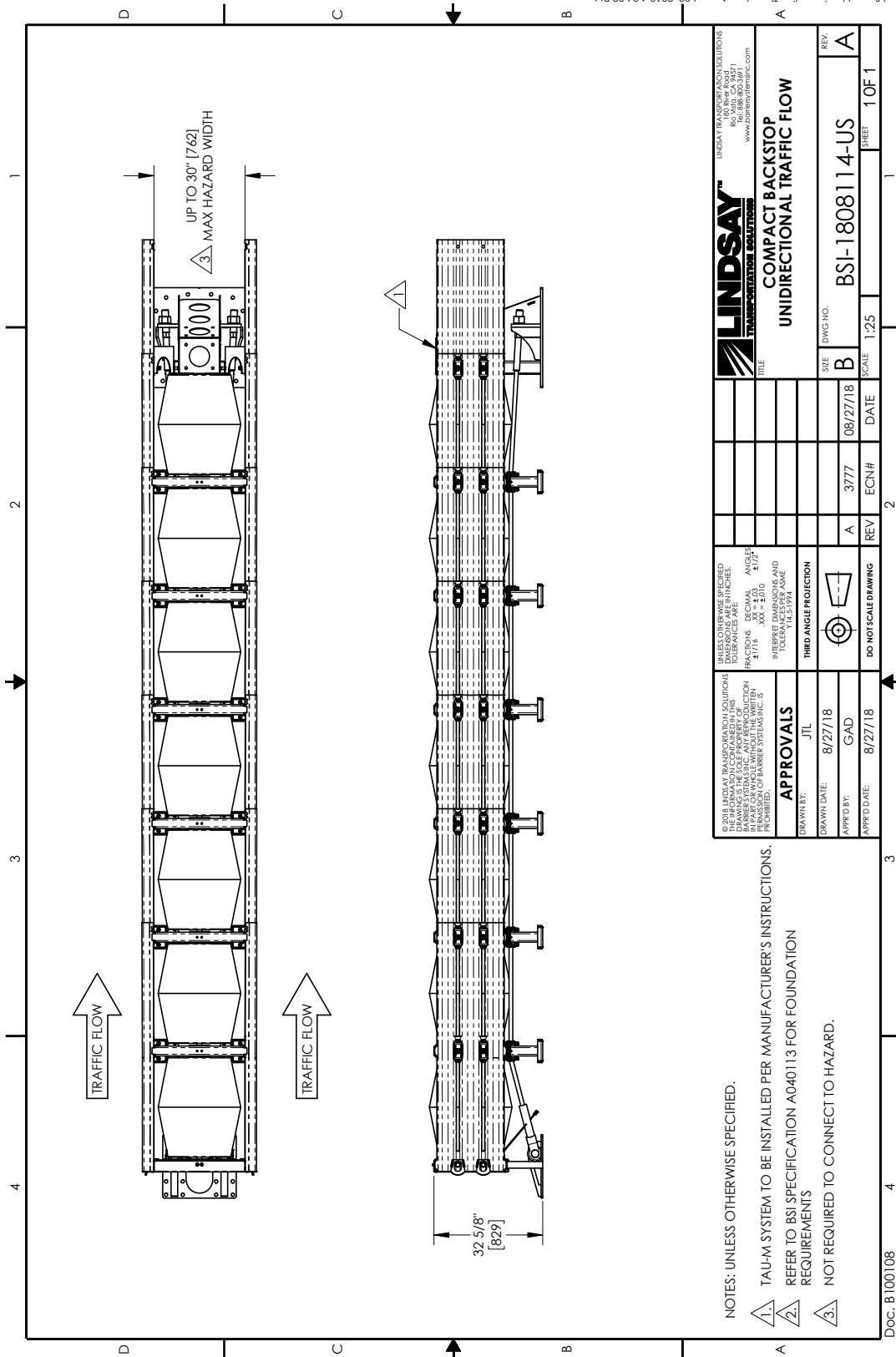
Lost Saved by: Jason.Lim, Thursday, August 30, 2018 2:11:11 PM

Drawings COMPACT BACKSTOP TO OFFSET PCB WITH END SHOE BI-DIRECTIONAL TRAFFIC FLOW

Lost Saved by: jason.lim; Friday, August 31, 2018 8:01:10 AM



Drawings COMPACT BACKSTOP UNIDIRECTIONAL TRAFFIC FLOW



Long-Term Storage

Store materials under cover in dry, well-ventilated conditions, away from doorways open to the environment.

Supplied epoxy has a storage and shelf life of 28 months. Store epoxy in dry and cool environment.

Provide adequate ventilation between stacked pieces. Elevate and separate articles stacked outdoors with spacers (poplar, ash, spruce).

Incline parts to allow for maximum drainage.

Avoid stacking material directly on soil or decaying vegetation.

For crated items, remove the lids to provide better ventilation and drying of the galvanized parts. Customers will need to remove kits packed in cardboard boxes from the crates and store them inside.

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Installation manual for the TAU-M™ system is subject to change without notice to reflect improvements and upgrades.

Please contact Lindsay Transportation Solutions to confirm that you are using the most current installation manual and instructions.

Additional information is available from Lindsay Transportation Solutions. © Lindsay Transportation Solutions

P/N TAU-M™ Rev D (ECN 60303)