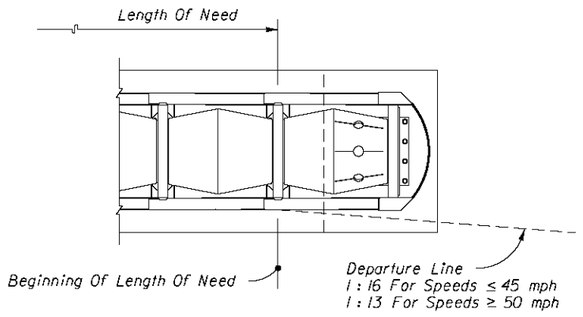
CONTENTS

UNIVERSAL TAU-II GENERAL NOTES

1. The energy absorbing system represented on this Qualified Products List (QPL) drawing is a proprietary design by Barrier Systems, Inc. and marketed under the trade name Universal TAU-II. Any infringement on the rights of the designer shall be the sole responsibility of the user.
2. The Universal TAU-II is a redirective, non-gating crash cushion designed to shield hazards up to 8.5 feet in width.
3. The Universal TAU-II shall be assembled in accordance with the manufacturer's details, procedures, specifications and the details shown in these drawings.
4. The Universal TAU-II shall be constructed parallel to the approach travel lane and on cross slopes 1:10 or flatter.
5. All metallic components shall meet the galvanizing requirements for guardrail, Index No. 400.
6. A yellow Type I Object Marker shall be centered 3' in front of the nose of the Universal TAU-II. Mounting hardware shall be in conformance with Index No. 11860. As an alternative the contractor has the option to install reflective sheeting on the nose of the crash cushion in lieu of the yellow Type I Object Marker. The sheeting 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. The cost of the Object Marker or sheeting shall be included in the cost of the Universal TAU-II system.
7. Quantity for payment is based on each independent location as called for in the plans or as directed by the Engineer. The cost for manufacturer's transition hardware, foundations and subgrade preparation will be included in the cost for the Universal TAU-II system.
8. Permanent systems will be paid for under the contract unit price for Impact Attenuator Vehicular (TAU-II), EA; temporary units, when used as an option in accordance with Index No. 415, will be paid for under the contract unit price for Vehicular Impact Attenuator (Redirective Option) (Temporary), LO.

DESIGN NOTES AND GUIDELINES

1. The beginning length of need shall be at the point of intersection between the face of the cushion and the transverse centerline of the diaphragm back of the first cartridge. See detail below.
2. The Universal TAU-II System is designed to cushion automobile end-on hits and to redirect automobiles from side hits. The Universal TAU-II is designed to shield fixed hazards or the ends of other temporary and permanent barrier systems. The number of bays to be used in a specific unit will be determined by the design speed, except where the Engineer determines that another speed is more applicable.
3. The Universal TAU-II is a restorable system that is particularly suited to shielding hazards subject to high speed traffic, high volume traffic, and/or traffic with a history of frequent errant vehicle departures from the roadway or the potential exists for such departures. The Universal TAU-II is particularly suited to shielding hazards where the approach space is limited; and, is particularly suited to conditions where the terminal must be located close to the traffic lane.
4. Currently the Department does not recognize other proprietary items as being equally suitable alternatives to the Universal TAU-II, and until such alternatives are available, the Universal TAU-II need not be bid against other proprietary items. However, for temporary use where the Universal TAU-II and other approved redirective crash cushions meet or exceed the minimum requirements for a specific location, the approved crash cushions will be considered optional systems and paid for as described in General Note 8 above.



REVISIONS

DATE	BY	DESCRIPTION
06/01/09	B.S.	Extensive revisions- Sheets deleted, new sheets added, notes and details clarified
10/27/09	A.K.	Added Drawing AP090806 for shoulder walls.

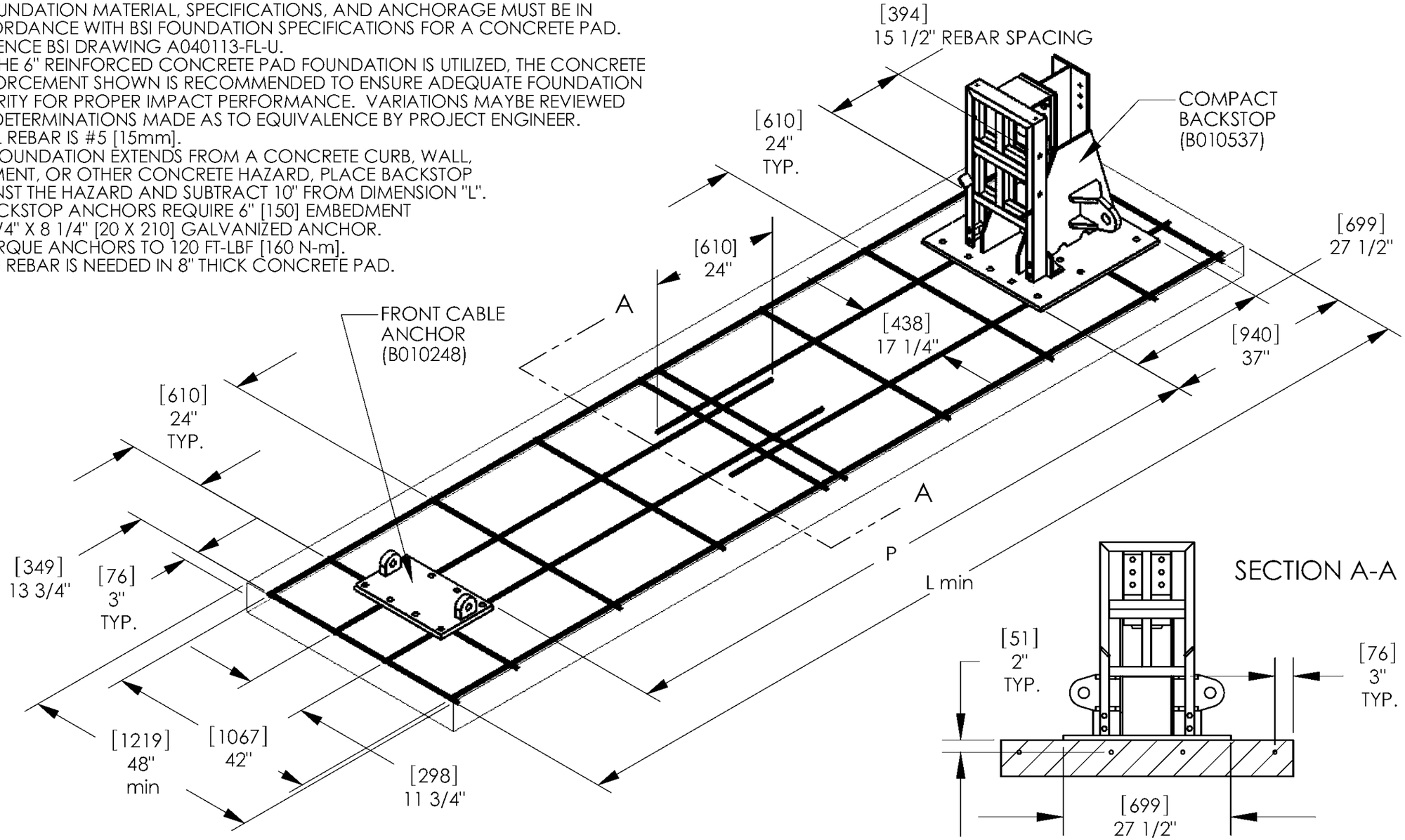
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

UNIVERSAL TAU-II

DATE:
08/31/05

NOTES:

1.) REFERENCE UNIVERSAL TAU-II FOUNDATION DIMENSION CHART FOR SPECIFIC SYSTEM FOUNDATION DIMENSIONS.
2.) FOUNDATION MATERIAL, SPECIFICATIONS, AND ANCHORAGE MUST BE IN ACCORDANCE WITH BSI FOUNDATION SPECIFICATIONS FOR A CONCRETE PAD. REFERENCE BSI DRAWING A040113-FL-U.
3.) IF THE 6" REINFORCED CONCRETE PAD FOUNDATION IS UTILIZED, THE CONCRETE REINFORCEMENT SHOWN IS RECOMMENDED TO ENSURE ADEQUATE FOUNDATION INTEGRITY FOR PROPER IMPACT PERFORMANCE. VARIATIONS MAYBE REVIEWED AND DETERMINATIONS MADE AS TO EQUIVALENCE BY PROJECT ENGINEER.
4.) ALL REBAR IS #5 [15mm].
5.) IF FOUNDATION EXTENDS FROM A CONCRETE CURB, WALL, ABUTMENT, OR OTHER CONCRETE HAZARD, PLACE BACKSTOP AGAINST THE HAZARD AND SUBTRACT 10" FROM DIMENSION "L".
6.) BACKSTOP ANCHORS REQUIRE 6" [150] EMBEDMENT FOR 3/4" X 8 1/4" [20 X 210] GALVANIZED ANCHOR.
7.) TORQUE ANCHORS TO 120 FT-LBF [160 N-m].
8.) NO REBAR IS NEEDED IN 8" THICK CONCRETE PAD.



SECTION A-A

0	NEW DRAWING	10/16/08	JR	1	B010708	1
REV.	CHANGES	DATE	BY	REQ'D	NEXT ASSY.	ITEM

SCALE: 1:24

	DATE	INIT.
DRAWN BY	01/08/04	GAD
APPR'D BY		JSM

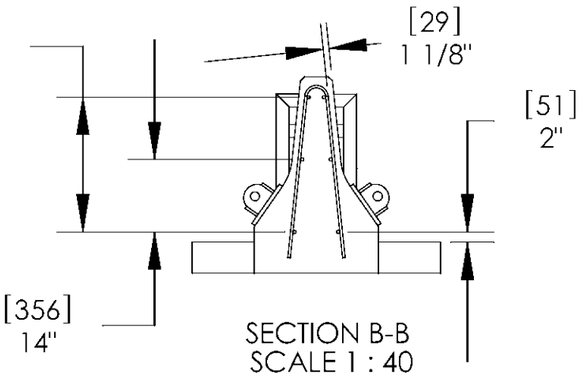
Standard Tolerance
Angular +/- 1/2 Deg.
Fractional +/- 1/16
Dec. . XXX= +/- .010
Dec. . XX= +/- .030

TITLE :
UNIVERSAL TAU-II FOUNDATION,
PCC PAD, COMPACT BACKSTOP

MODEL	DRAWING NUMBER	REV.
	A040102-FL	0

NOTES:

1.) REFERENCE UNIVERSAL TAU-II FOUNDATION DIMENSION CHART FOR SPECIFIC SYSTEM FOUNDATION DIMENSIONS.
2.) FOUNDATION MATERIAL, SPECIFICATIONS, AND ANCHORAGE MUST BE IN ACCORDANCE WITH BSI FOUNDATION SPECIFICATIONS FOR A CONCRETE PAD AND PORTLAND CEMENT CONCRETE (A040113-FL-U).
3.) IF THE 6" REINFORCED CONCRETE PAD FOUNDATION IS UTILIZED, THE CONCRETE REINFORCEMENT SHOWN IS RECOMMENDED TO ENSURE ADEQUATE FOUNDATION INTEGRITY FOR PROPER IMPACT PERFORMANCE. VARIATIONS MAY BE REVIEWED AND DETERMINATIONS MADE AS TO EQUIVALENCE BY PROJECT ENGINEER.
4.) CONCRETE BARRIER REINFORCMENT SHOWN APPLIES TO VARIOUS SAFETY SHAPED BARRIER AND VERTICAL CONCRETE UP TO 15 1/2" INCHES WIDE.
5.) CONCRETE BARRIER REINFORCMENT SHOWN IS A RECOMMENDED MINIMUM. USE CONCRETE BARRIER IN ACCORDANCE WITH FLORIDA DOT INDEX 410 FREE END REINFORCEMENT.
6.) CONCRETE BARRIER WALL DOES NOT NEED TO TIE INTO FOUNDATION PAD. HOWEVER, THE PAD AND BACKSTOP MUST CONTACT EACH OTHER.
7.) BACKSTOP ANCHORS REQUIRE 6" [150] EMBEDMENT FOR 3/4" X 8 1/4" [20 X 210] GALVANIZED ANCHOR.
8.) TORQUE ANCHORS TO 120 FT-LBF [160 N-m].
9.) REMOVABLE TYPE ANCHORS ARE ACCEPTABLE.



SECTION B-B
SCALE 1 : 40

SECTION A-A

REV.	CHANGES	DATE	BY	REQ'D	NEXT ASSY.	ITEM
A	CHANGED NOTES 3 & 6, ADDED NOTES 7 - 9	10/16/08	JR			

SCALE: 1:30

	DATE	INIT.
DRAWN BY	01/07/04	GAD
APPR'D BY		JSM

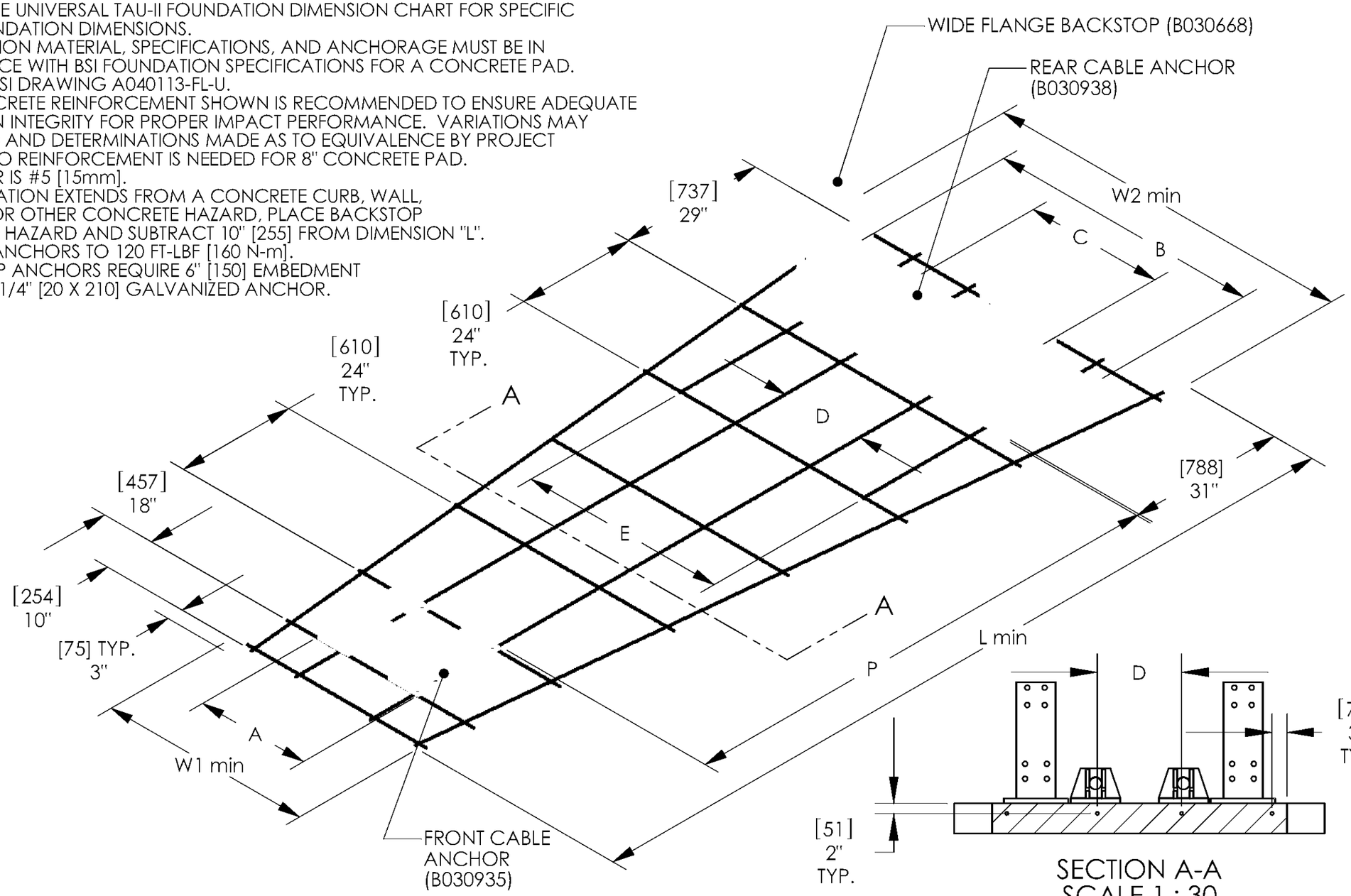
Standard Tolerance
Angular +/- 1/2 Deg.
Fractional +/- 1/16
Dec. . XXX= +/- .010
Dec. . XX= +/- .030

TITLE :
UNIVERSAL TAU-II FOUNDATION,
PCC PAD, P.C.B. BACKSTOP

MODEL	DRAWING NUMBER	REV.
	A040105-FL-U	A

NOTES:

1.) REFERENCE UNIVERSAL TAU-II FOUNDATION DIMENSION CHART FOR SPECIFIC SYSTEM FOUNDATION DIMENSIONS.
2.) FOUNDATION MATERIAL, SPECIFICATIONS, AND ANCHORAGE MUST BE IN ACCORDANCE WITH BSI FOUNDATION SPECIFICATIONS FOR A CONCRETE PAD. REFERENCE BSI DRAWING A040113-FL-U.
3.) THE CONCRETE REINFORCEMENT SHOWN IS RECOMMENDED TO ENSURE ADEQUATE FOUNDATION INTEGRITY FOR PROPER IMPACT PERFORMANCE. VARIATIONS MAY BE REVIEWED AND DETERMINATIONS MADE AS TO EQUIVALENCE BY PROJECT ENGINEER. NO REINFORCEMENT IS NEEDED FOR 8" CONCRETE PAD.
4.) ALL REBAR IS #5 [15mm].
5.) IF FOUNDATION EXTENDS FROM A CONCRETE CURB, WALL, ABUTMENT, OR OTHER CONCRETE HAZARD, PLACE BACKSTOP AGAINST THE HAZARD AND SUBTRACT 10" [255] FROM DIMENSION "L".
6.) TORQUE ANCHORS TO 120 FT-LBF [160 N-m].
7.) BACKSTOP ANCHORS REQUIRE 6" [150] EMBEDMENT FOR 3/4" X 8 1/4" [20 X 210] GALVANIZED ANCHOR.



SECTION A-A
SCALE 1 : 30

REV.	CHANGES	DATE	BY	REQ'D	NEXT ASSY.	ITEM
A	CHANGED NOTES 3 & 7	10/16/08	JR	1	B033000	1

SCALE: 1:24

	DATE	INIT.
DRAWN BY	01/07/04	GAD
APPR'D BY		JSM

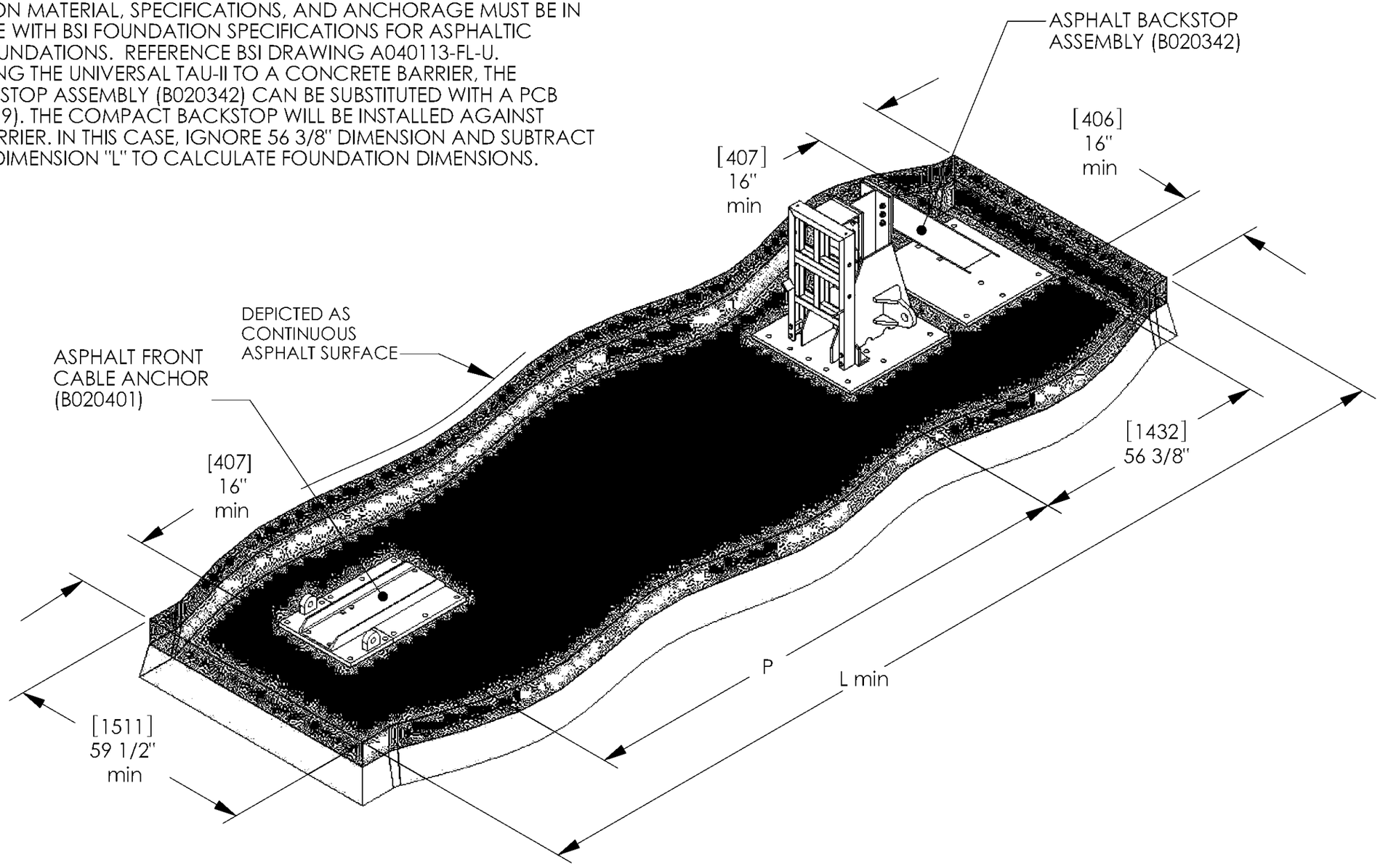
Standard Tolerance
Angular +/- 1/2 Deg.
Fractional +/- 1/16
Dec. . XXX= +/- .010
Dec. . XX= +/- .030

TITLE :
UNIVERSAL TAU-II FOUNDATION, WIDE FLANGE BACKSTOP

MODEL	DRAWING NUMBER	REV.
	A040108-FL	A

NOTES:

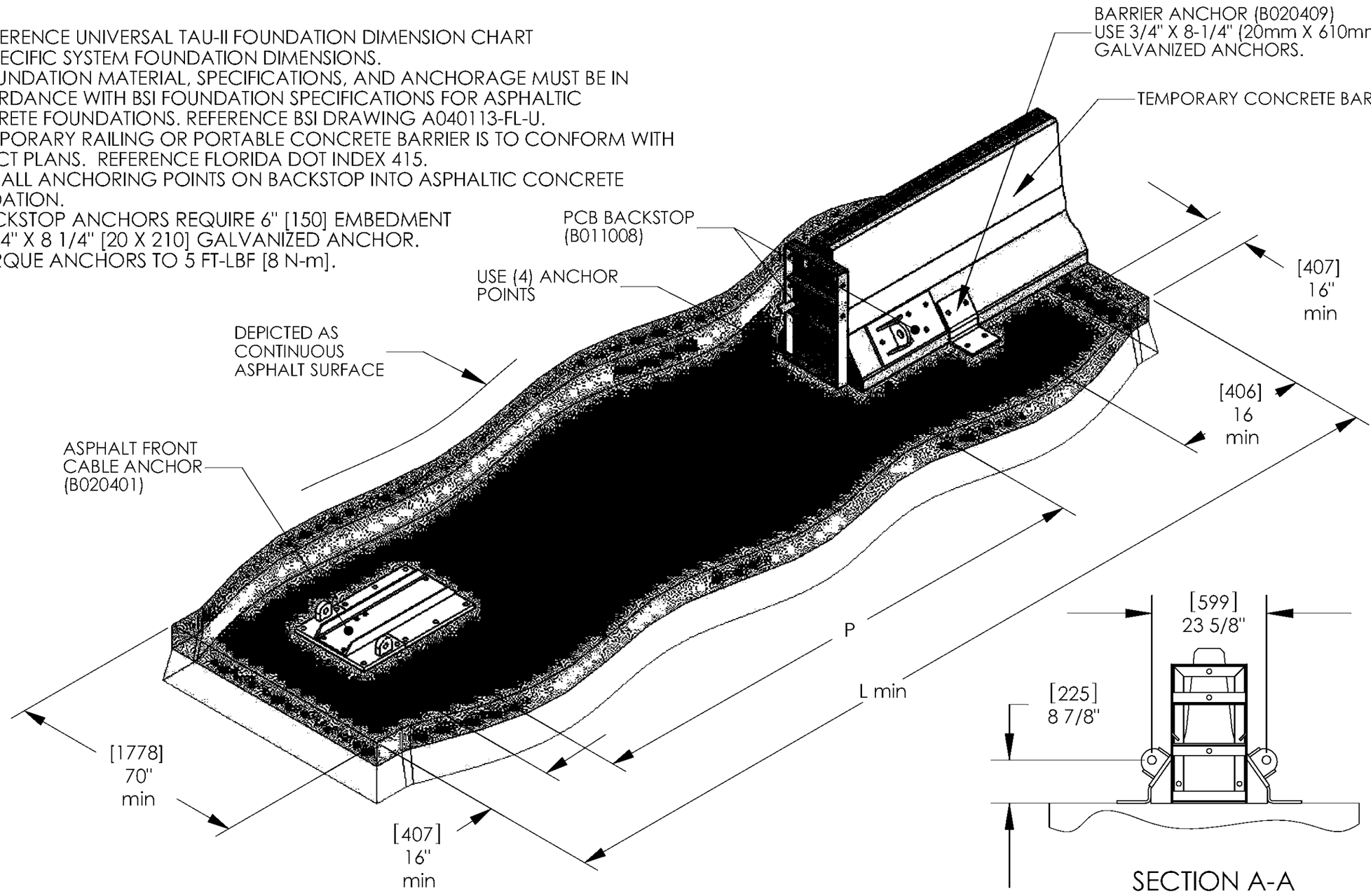
1.) REFERENCE UNIVERSAL TAU-II FOUNDATION DIMENSION CHART FOR SPECIFIC SYSTEM FOUNDATION DIMENSIONS.
2.) FOUNDATION MATERIAL, SPECIFICATIONS, AND ANCHORAGE MUST BE IN ACCORDANCE WITH BSI FOUNDATION SPECIFICATIONS FOR ASPHALTIC CONCRETE FOUNDATIONS. REFERENCE BSI DRAWING A040113-FL-U.
3.) IF ATTACHING THE UNIVERSAL TAU-II TO A CONCRETE BARRIER, THE ASPHALT BACKSTOP ASSEMBLY (B020342) CAN BE SUBSTITUTED WITH A PCB BRACE (B040319). THE COMPACT BACKSTOP WILL BE INSTALLED AGAINST CONCRETE BARRIER. IN THIS CASE, IGNORE 56 3/8" DIMENSION AND SUBTRACT 44 7/8" FROM DIMENSION "L" TO CALCULATE FOUNDATION DIMENSIONS.



							SCALE: 1:30	Standard Tolerance Angular +/- 1/2 Deg. Fractional +/- 1/16 Dec. . XXX= +/- .010 Dec. . XX= +/- .030	
							DRAWN BY 01/08/04 GAD		
							APPR'D BY JSM		
A	ADDED NOTE 3	05/13/09	JR	1	B010708	1	TITLE : UNIVERSAL TAU-II FOUNDATION, AC PAD, COMPACT BACKSTOP	MODEL	DRAWING NUMBER A040110-FL / REV. A
REV.	CHANGES	DATE	BY	REQ'D	NEXT ASSY.	ITEM			

NOTES:

1.) REFERENCE UNIVERSAL TAU-II FOUNDATION DIMENSION CHART FOR SPECIFIC SYSTEM FOUNDATION DIMENSIONS.
2.) FOUNDATION MATERIAL, SPECIFICATIONS, AND ANCHORAGE MUST BE IN ACCORDANCE WITH BSI FOUNDATION SPECIFICATIONS FOR ASPHALTIC CONCRETE FOUNDATIONS. REFERENCE BSI DRAWING A040113-FL-U.
3.) TEMPORARY RAILING OR PORTABLE CONCRETE BARRIER IS TO CONFORM WITH PROJECT PLANS. REFERENCE FLORIDA DOT INDEX 415.
4.) USE ALL ANCHORING POINTS ON BACKSTOP INTO ASPHALTIC CONCRETE FOUNDATION.
5.) BACKSTOP ANCHORS REQUIRE 6" [150] EMBEDMENT FOR 3/4" X 8 1/4" [20 X 210] GALVANIZED ANCHOR.
6.) TORQUE ANCHORS TO 5 FT-LBF [8 N-m].



SECTION A-A

A	ADDED NOTES 5 & 6 & CALLOUT FOR GALV. ANCHORS	REV.	REV.	1	B010708	1
REV.	CHANGES	DATE	BY	REQ'D	NEXT ASSY.	ITEM

SCALE: 1:30

	DATE	INIT.
DRAWN BY	1/8/04	GAD
APPR'D BY		JSM

Standard Tolerance
Angular +/- 1/2 Deg.
Fractional +/- 1/16
Dec. . XXX= +/- .010
Dec. . XX= +/- .030

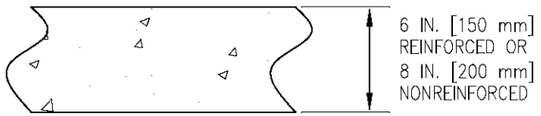
TITLE :
UNIVERSAL TAU-II FOUNDATION,
AC PAD, PCB BACKSTOP

MODEL	DRAWING NUMBER	REV.
	A040112-FL	A

FOUNDATION SPECIFICATIONS:

THE UNIVERSAL 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 TAU-II FOUNDATION DRAWINGS FOR FURTHER DETAIL.

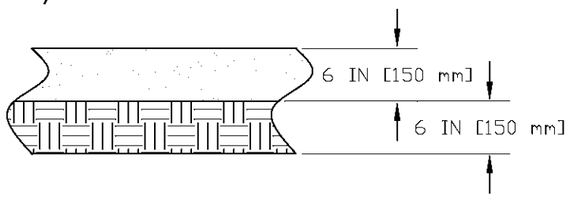
1.) CONCRETE PAD



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 $\frac{1}{4}$ IN. [210 mm] GALVANIZED ANCHOR WITH 6 IN. [150 mm] EMBEDMENT OR 3/4" MECHANICAL ANCHORS WITH AN EMBEDMENT THAT IS IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS

2.) ASPHALT OVER SUBBASE

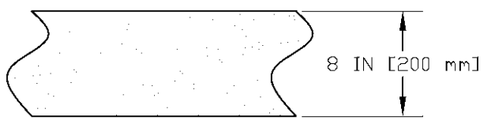


FOUNDATION: MINIMUM 6 IN [150 mm] AC OVER 6 IN. [150 mm] COMPACTED DGA SUBBASE

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

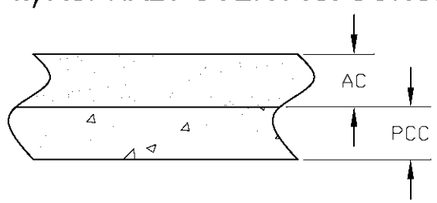


FOUNDATION: MINIMUM 8 IN. [200 mm] AC

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 - NO ASPHALT ANCHORING KIT REQUIRED
OR
3/4 IN. [20 mm] X 18 IN. [460 mm] GALVANIZED ANCHORS WITH 16 IN. [410 mm] EMBEDMENT - ASPHALT ANCHORING KIT REQUIRED

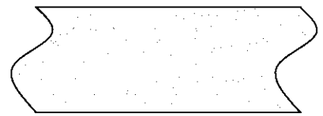
MATERIAL SPECIFICATIONS

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 C39-84)

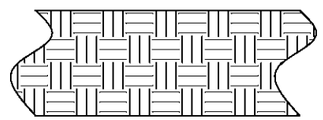
THE CONTRACTOR IS TO FURNISH A CERTIFICATION THAT THE CONCRETE INSTALLED MEETS THE REQUIRED STRENGTH AND TESTING REQUIREMENTS

ASPHALTIC CONCRETE (AC)



ASPHALT CONCRETE TYPE SP 12.5 TRAFFIC LEVEL C OR HIGHER (FDOT SPECIFICATION 334)

COMPACTED SUBBASE (DGA)



ROCK BASE (FDOT SPECIFICATION 200) OR GRADED AGGREGATE BASE (FDOT SPECIFICATION 204)

REV.	CHANGES	DATE	BY	REQ'D	NEXT ASSY.	ITEM
A	ADDED NOTE TO CONCRETE PAD ANCHORAGE	10/21/08	JR			

SCALE: FULL

	DATE	INIT.
DRAWN BY	01/09/04	GAD
APPR'D BY		JSM

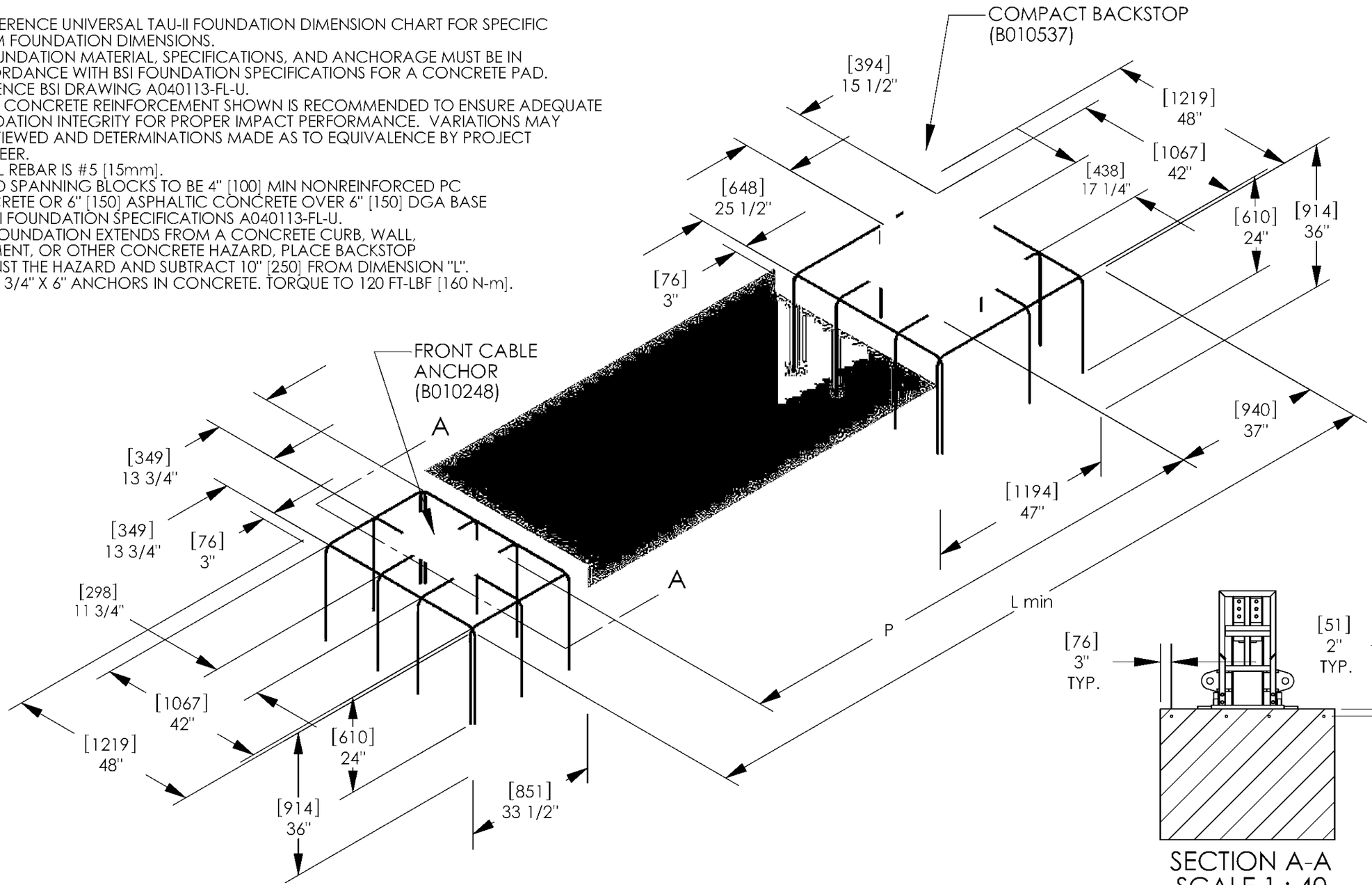
Standard Tolerance
Angular ± 1/2°
Fractional ± 1/16
Dec .XXX= ± .010
Dec .XX= ± .030

TITLE :
FOUNDATION SPECIFICATIONS

MODEL	DRAWING NUMBER	REV.
	A040113-FL-U	A

NOTES:

1.) REFERENCE UNIVERSAL TAU-II FOUNDATION DIMENSION CHART FOR SPECIFIC SYSTEM FOUNDATION DIMENSIONS.
2.) FOUNDATION MATERIAL, SPECIFICATIONS, AND ANCHORAGE MUST BE IN ACCORDANCE WITH BSI FOUNDATION SPECIFICATIONS FOR A CONCRETE PAD. REFERENCE BSI DRAWING A040113-FL-U.
3.) THE CONCRETE REINFORCEMENT SHOWN IS RECOMMENDED TO ENSURE ADEQUATE FOUNDATION INTEGRITY FOR PROPER IMPACT PERFORMANCE. VARIATIONS MAY BE REVIEWED AND DETERMINATIONS MADE AS TO EQUIVALENCE BY PROJECT ENGINEER.
4.) ALL REBAR IS #5 [15mm].
5.) PAD SPANNING BLOCKS TO BE 4" [100] MIN NONREINFORCED PC CONCRETE OR 6" [150] ASPHALTIC CONCRETE OVER 6" [150] DGA BASE PER BSI FOUNDATION SPECIFICATIONS A040113-FL-U.
6.) IF FOUNDATION EXTENDS FROM A CONCRETE CURB, WALL, ABUTMENT, OR OTHER CONCRETE HAZARD, PLACE BACKSTOP AGAINST THE HAZARD AND SUBTRACT 10" [250] FROM DIMENSION "L".
7.) USE 3/4" X 6" ANCHORS IN CONCRETE. TORQUE TO 120 FT-LBF [160 N-m].



SECTION A-A
SCALE 1 : 40

REV.	CHANGES	DATE	BY	REQ'D	NEXT ASSY.	ITEM
A	CHANGED NOTE 6 & ADDED NOTE 7	10/16/08	JR			

SCALE: 1:30

	DATE	INIT.
DRAWN BY	01/12/04	GAD
APPR'D BY		JSM

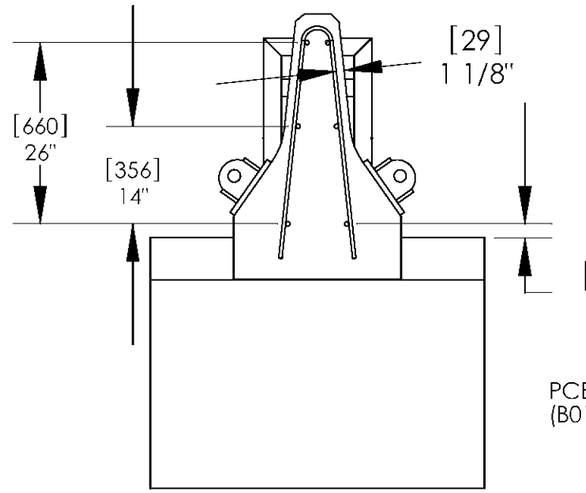
Standard Tolerance
Angular +/- 1/2 Deg.
Fractional +/- 1/16
Dec. . XXX= +/- .010
Dec. . XX= +/- .030

TITLE :
UNIVERSAL TAU-II FOUNDATION,
PCC BLOCKS, COMPACT BACKSTOP

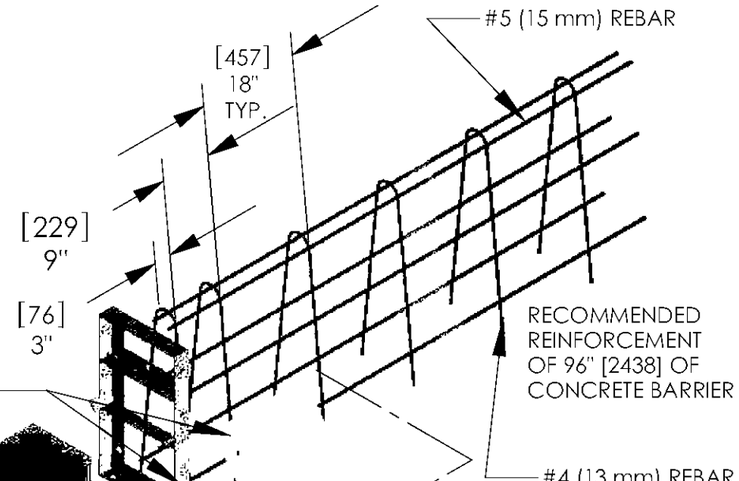
MODEL	DRAWING NUMBER	REV.
	A040115-FL	A

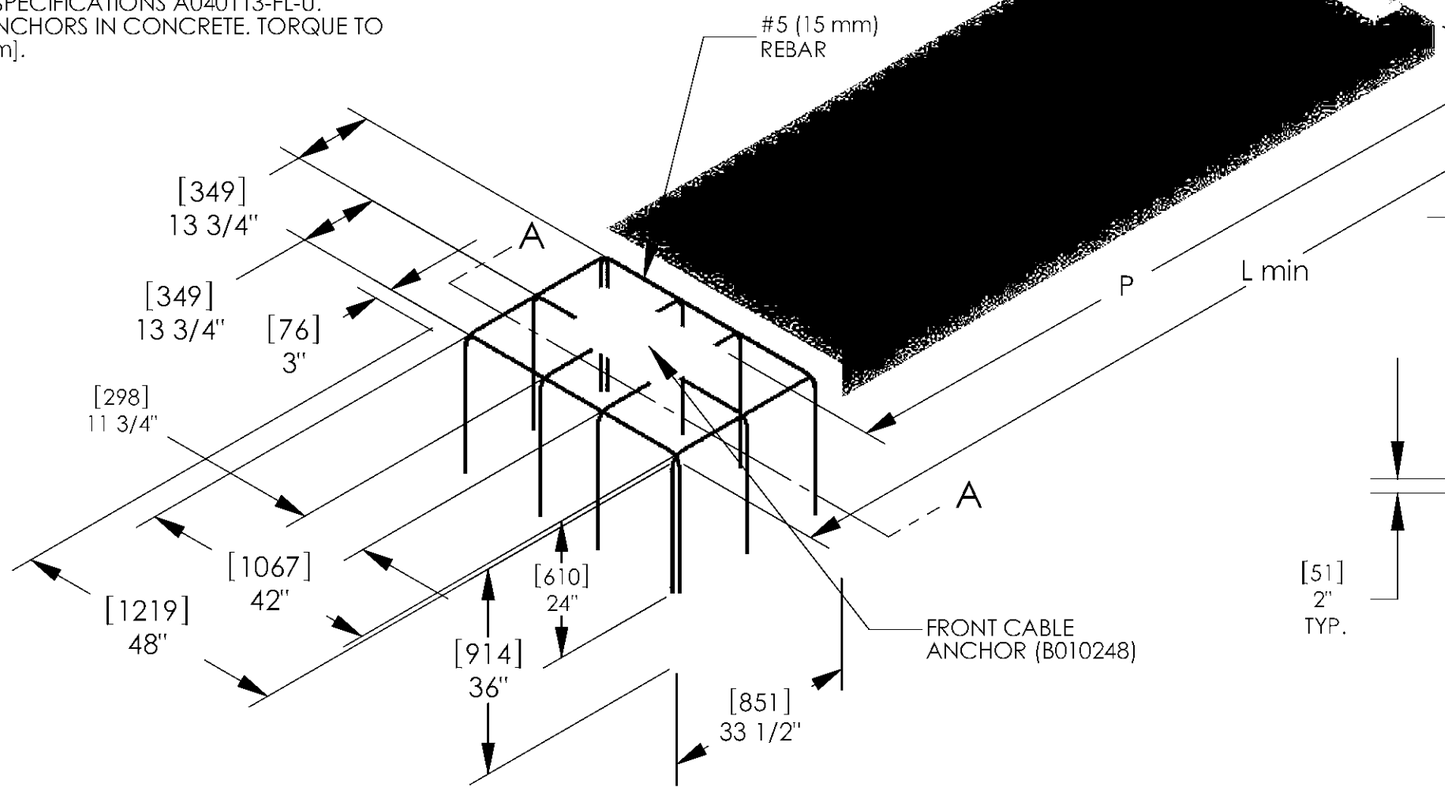
NOTES:

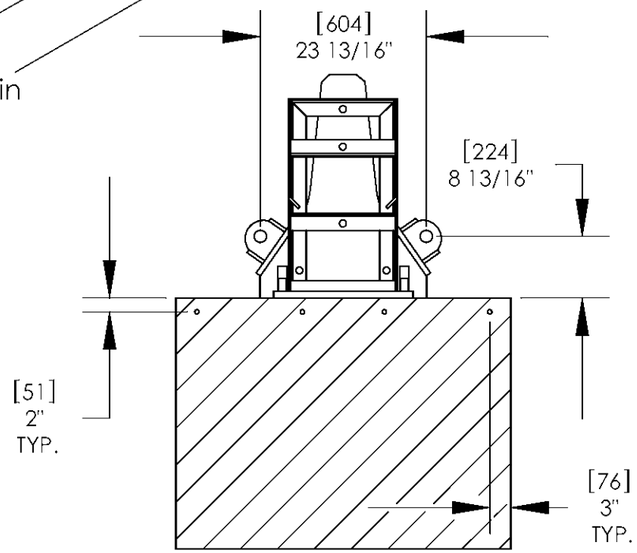
1.) REFERENCE UNIVERSAL TAU-II FOUNDATION DIMENSION CHART FOR SPECIFIC SYSTEM FOUNDATION DIMENSIONS.
2.) FOUNDATION MATERIAL, SPECIFICATIONS, AND ANCHORAGE MUST BE IN ACCORDANCE WITH BSI FOUNDATION SPECIFICATIONS FOR A CONCRETE PAD AND PORTLAND CEMENT CONCRETE (A040113-FL-U).
3.) THE CONCRETE REINFORCEMENT SHOWN IS RECOMMENDED TO ENSURE ADEQUATEFOUNDATION INTEGRITY FOR PROPER IMPACT PERFORMANCE. VARIATIONS MAY BE REVIEWED AND DETERMINATIONS MADE AS TO EQUIVALENCE BY PROJECT ENGINEER.
4.) CONCRETE BARRIER REINFORCEMENT SHOWN APPLIES TO VARIOUS SAFETY SHAPED BARRIER AND VERTICAL CONCRETE UP TO 15 1/2" INCHES WIDE.
5.) CONCRETE BARRIER REINFORCMENT SHOWN IS A RECOMMENDED MINIMUM. USE CONCRETE BARRIER IN ACCORDANCE WITH FLORIDA DOT INDEX 410 FREE END REINFORCEMENT.
6.) PAD BETWEEN BACKSTOP AND BLOCK TO BE 4" [100] MIN NONREINFORCED PC CONCRETE OR 6" [150] ASPHALTIC CONRETE OVER 6" [150] DGA BASE PER BSI FOUNDATION SPECIFICATIONS A040113-FL-U.
7.) USE 3/4" X 6" ANCHORS IN CONCRETE. TORQUE TO 120 FT-LBF [160 N-m].



SECTION B-B







SECTION A-A

A	ADDED NOTE 7	10/16/08	JR			
REV.	CHANGES	DATE	BY	REQ'D	NEXT ASSY.	ITEM

SCALE: 1:30

	DATE	INIT.
DRAWN BY	01/12/04	GAD
APPR'D BY		JSM

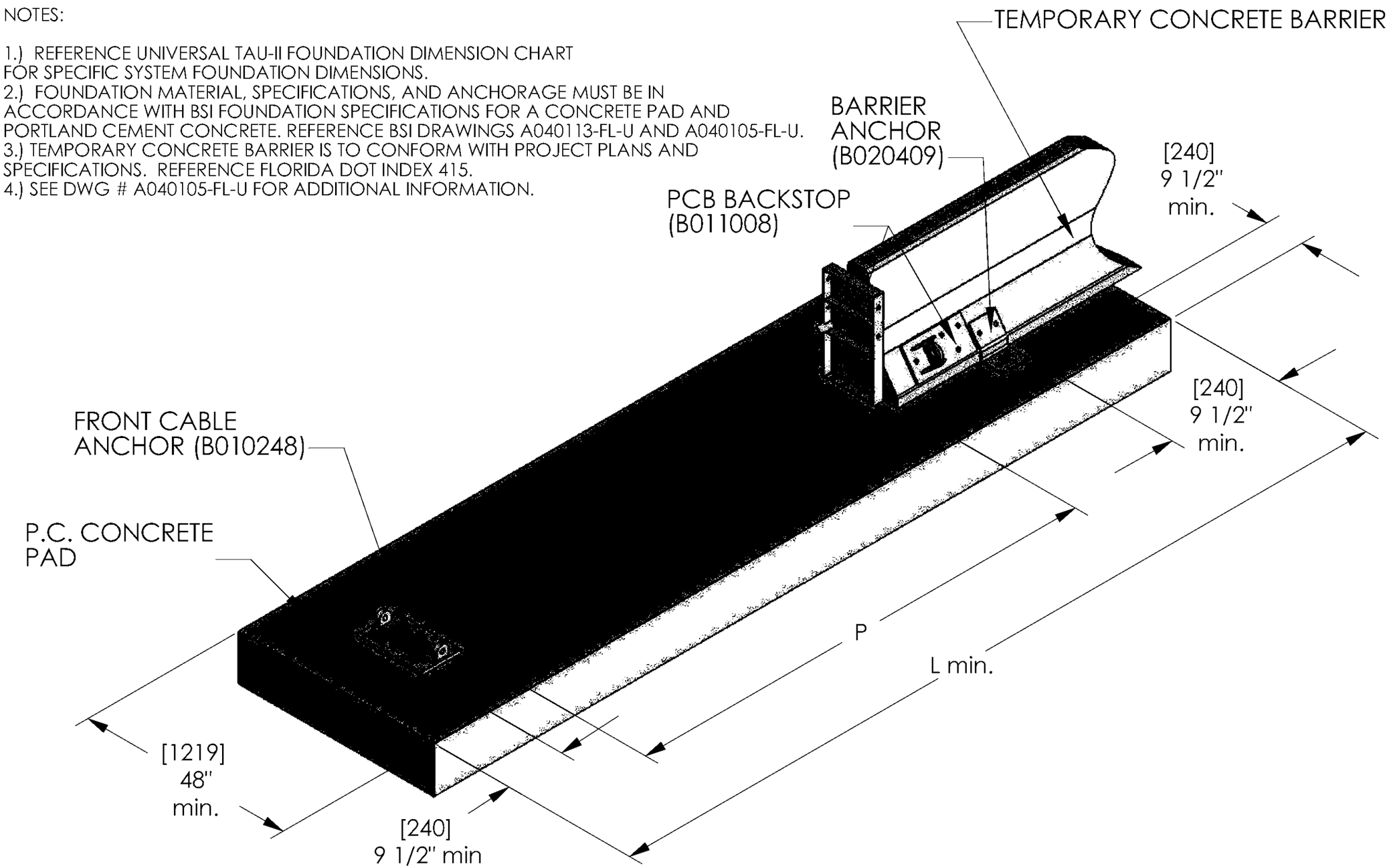
Standard Tolerance
Angular +/- 1/2 Deg.
Fractional +/- 1/16
Dec. . XXX= +/- .010
Dec. . XX= +/- .030

TITLE :
UNIVERSAL TAU-II FOUNDATION,
PCC BLOCK, PCB BACKSTOP

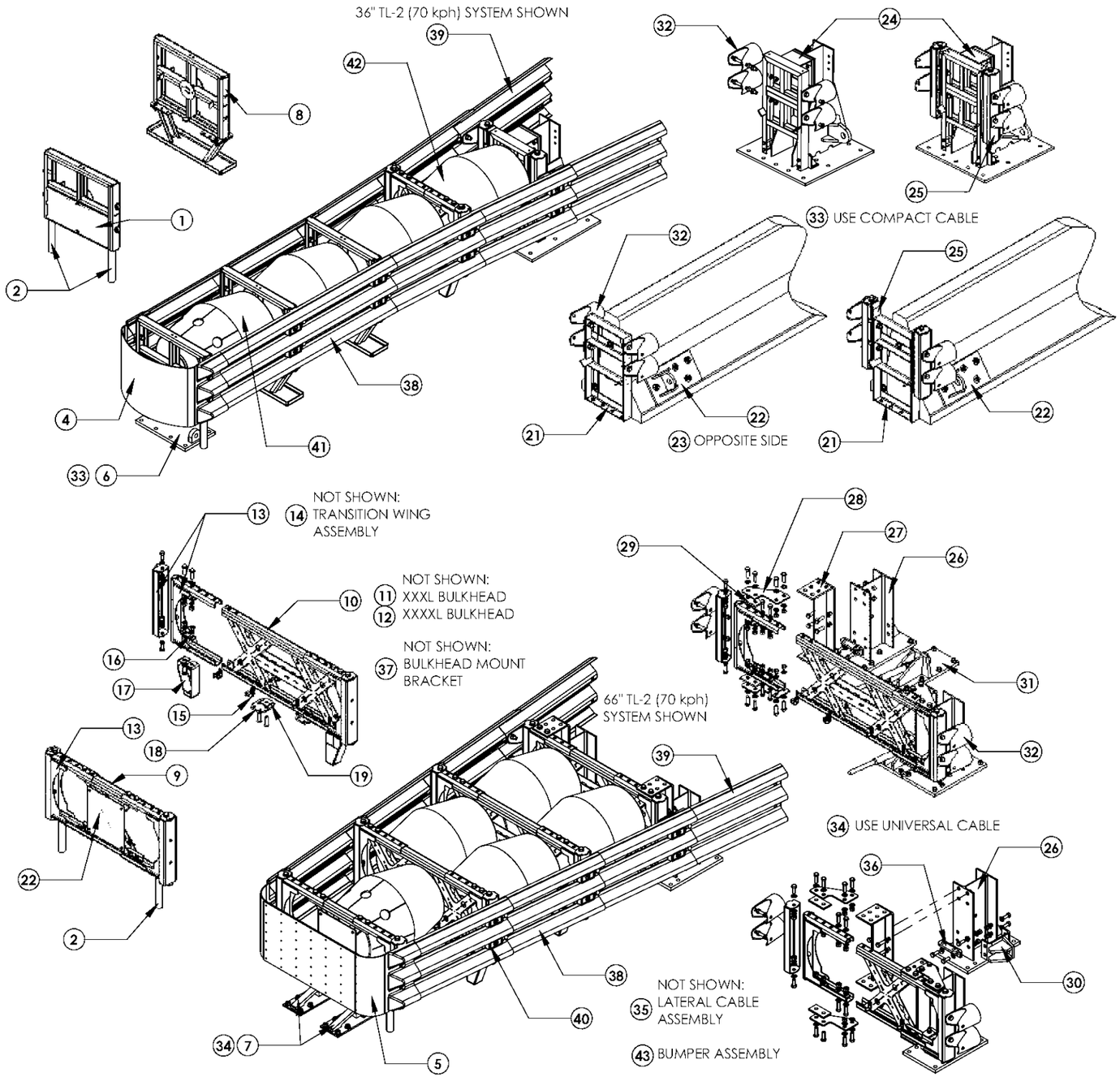
MODEL	DRAWING NUMBER	REV.
	A040117-FL-U	A

NOTES:

1.) REFERENCE UNIVERSAL TAU-II FOUNDATION DIMENSION CHART FOR SPECIFIC SYSTEM FOUNDATION DIMENSIONS.
2.) FOUNDATION MATERIAL, SPECIFICATIONS, AND ANCHORAGE MUST BE IN ACCORDANCE WITH BSI FOUNDATION SPECIFICATIONS FOR A CONCRETE PAD AND PORTLAND CEMENT CONCRETE. REFERENCE BSI DRAWINGS A040113-FL-U AND A040105-FL-U.
3.) TEMPORARY CONCRETE BARRIER IS TO CONFORM WITH PROJECT PLANS AND SPECIFICATIONS. REFERENCE FLORIDA DOT INDEX 415.
4.) SEE DWG # A040105-FL-U FOR ADDITIONAL INFORMATION.



							SCALE: 1:30	Standard Tolerance Angular +/- 1/2 Deg. Fractional +/- 1/16 Dec. . XXX= +/- .010 Dec. . XX= +/- .030	
								DATE	INIT.
							DRAWN BY	2/5/04	GAD
							APPR'D BY		OSD
A	ADDED NOTE 4	10/16/08	JR	1	A040105	1	TITLE : UNIVERSAL TAU-II FOUNDATION, PCC PAD, PCB BACKSTOP, TEMPORARY PCB	MODEL	DRAWING NUMBER: A040206-FL-U
REV.	CHANGES	DATE	BY	REQ'D	NEXT ASSY.	ITEM			REV.: A



ITEM	PART DESCRIPTION	PART #
1	FRONT SUPPORT	B010528
2	FRONT SUPPORT LEG KIT	K001005
3	FRONT COLLISION PLATE	B030801
4	NOSE PIECE, NARROW	B010711
5	NOSE PIECE WIDE	B030902
6	FRONT CABLE ANCHOR, COMPACT	B010248
7	FRONT CABLE ANCHOR, UNIVERSAL	B010935
8	MIDDLE SUPPORT ASSEMBLY	B010530
9	XL BULKHEAD	B030521
10	XXL BULKHEAD	B030528
11	XXXL BULKHEAD	B030529
12	XXXXL BULKHEAD	B030532
13	WING ASSEMBLY	B030509
14	TRANSITION WING ASSEMBLY	B030910
15	EAC LOCATING TAB	B031112
16	BACKING PLATE	B030543
17	LEG	B030425
18	CABLE GUIDE MOUNT	B030411
19	LEVEL SPACER	B030551
20	CABLE GUIDE ASSEMBLY KIT	K001004
21	PCB BACKSTOP	B011007
22	REAR CABLE ANCHOR "R" (PCB)	B010929
23	REAR CABLE ANCHOR "L" (PCB)	B011041
24	COMPACT BACKSTOP	B010537
25	36" ADAPTER (PCB & COMPACT)	B031201
26	WIDE FLANGE BACKSTOP	B030668
27	BACKSTOP BLOCKOUT (WF)	B030713
28	WING BRACE (WF)	B030821
29	WING BRACE SPACER (WF)	B030823
30	REAR CABLE ANCHOR, WF	B031020
31	REAR CABLE ANCHOR, IND (WF)	B030938
32	PIPE PANEL MOUNT	B010651
33	CABLE, COMPACT	TBD
34	CABLE, UNIVERSAL	TBD
35	LATERAL CABLE ASSEMBLY	B031034
36	LATERAL SUPPORT MOUNT (WF)	B031011
37	BULKHEAD MOUNT BRACKET	B031010
38	SLIDING PANEL	B010202
39	END PANEL	B010659
40	SLIDING BOLT ASSEMBLY	K001003
41	ENERGY ABSORBING CARTRIDE, TYPE	B010802
42	ENERGY ABSORBING CARTRIDE, TYPE	B010722
43	BUMPER ASSEMBLY	B031035

REV.	CHANGES	DATE	BY	REQ'D	NEXT ASSY.	ITEM
0	NEW DRAWING	10/16/08	JR			

SCALE: 1:1

	DATE	INIT.
DRAWN BY	04/22/04	GAD
APPR'D BY		JSM

Standard Tolerance
Angular +/- 1/2 Deg.
Fractional +/- 1/16
Dec. . XXX= +/- .010
Dec. . XX= +/- .030

TITLE :

UNIVERSAL TAU-II PARTS LIST

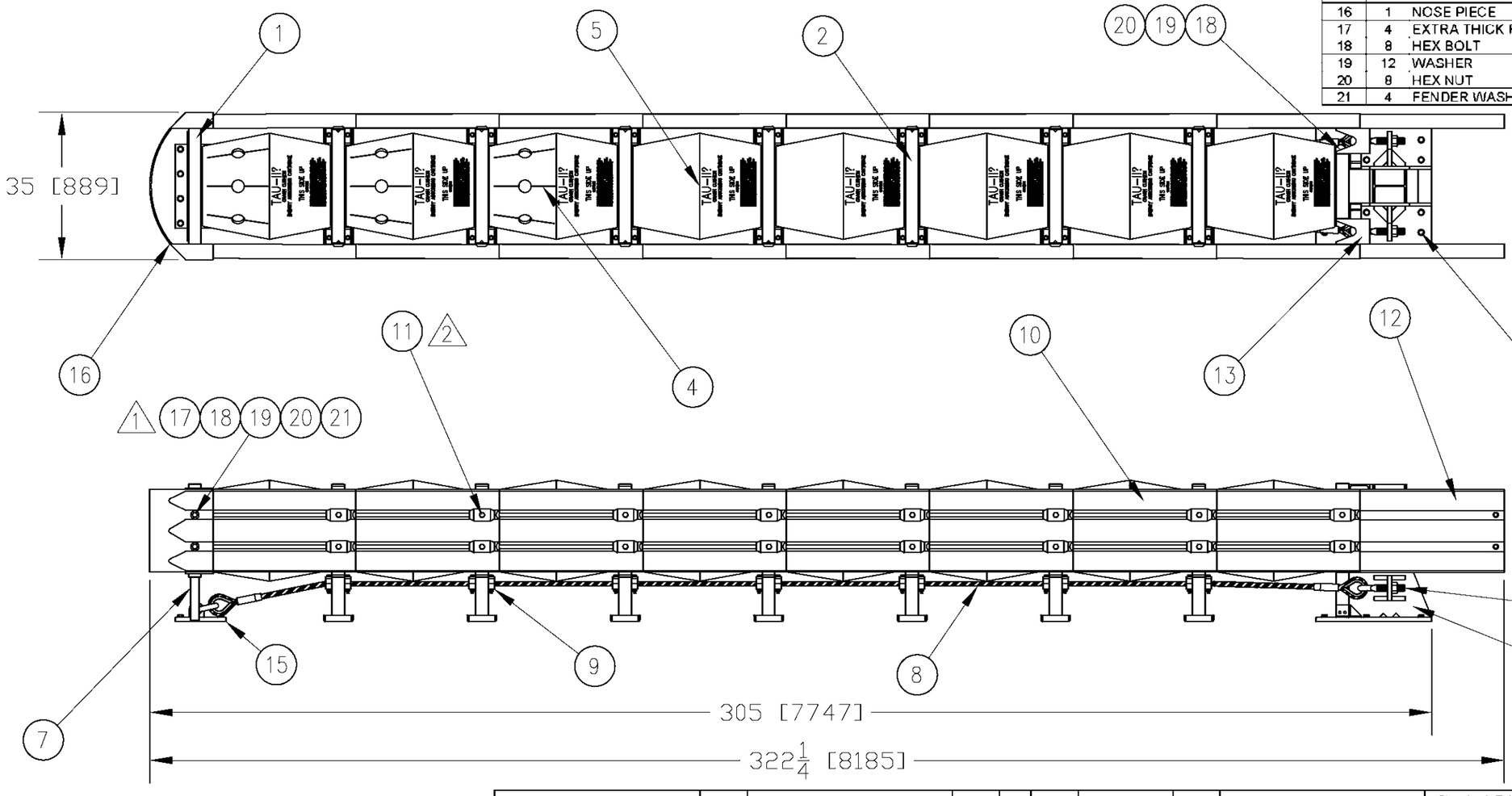
MODEL	DRAWING NUMBER	REV.
	A040416-FL	0

△1 TORQUE TO 200 FT-LBF

△2 TORQUE TO 20 FT-LBF

△3 TORQUE TO 500 FT-LBF

ITEM	QTY / DWG	PART DESCRIPTION	SPECIFICATION	PART #
1	1	FRONT SUPPORT ASSEMBLY	NA	B010528
2	7	MID SUPPORT ASSEMBLY	NA	B010530
3	1	COMPACT END SUPPORT ASSEMBLY	NA	B010537
4	3	ENERGY ABSORBING CARTRIDGE, TYPE A	NA	B010802
5	5	ENERGY ABSORBING CARTRIDGE, TYPE B	NA	B010722
6	1	ANCHORING PACKAGE	NA	B010713
7	2	FRONT SUPPORT LEG	NA	B010712
8	2	COMPACT CABLE	NA	B010916
9	14	CABLE GUIDE ASSEMBLY	NA	B010721
10	16	SLIDING PANEL	NA	B010202
11	32	SLIDING BOLT	NA	B010842
12	2	END PANEL	NA	B010659
13	4	PIPE PANEL MOUNT	NA	B010651
14	-	NA	NA	NA
15	1	FRONT CABLE ANCHOR	NA	B010248
16	1	NOSE PIECE	NA	B010711
17	4	EXTRA THICK FLAT WASHER	SS - 1 1/2"OD X 13/16"ID X 7/32"	2001009
18	8	HEX BOLT	MECH GALV-20MM-2.5 X 50MM	2001449
19	12	WASHER	MECH GALV-20MM	2001450
20	8	HEX NUT	MECH GALV-20MM-2.5	2001451
21	4	FENDER WASHER	SS-13/16"ID X 1 7/8"OD	2001009



NOTE: THIS DRAWING ILLUSTRATES AN 8 BAY TAU-II W/COMPACT BACKSTOP TO DEPICT THE GENERIC LAYOUT OF THE SYSTEM COMPONENTS.

REV.	CHANGES	DATE	BY	REQ'D	NEXT ASSY.	ITEM
0	NEW DRAWING	10/16/08	JR			

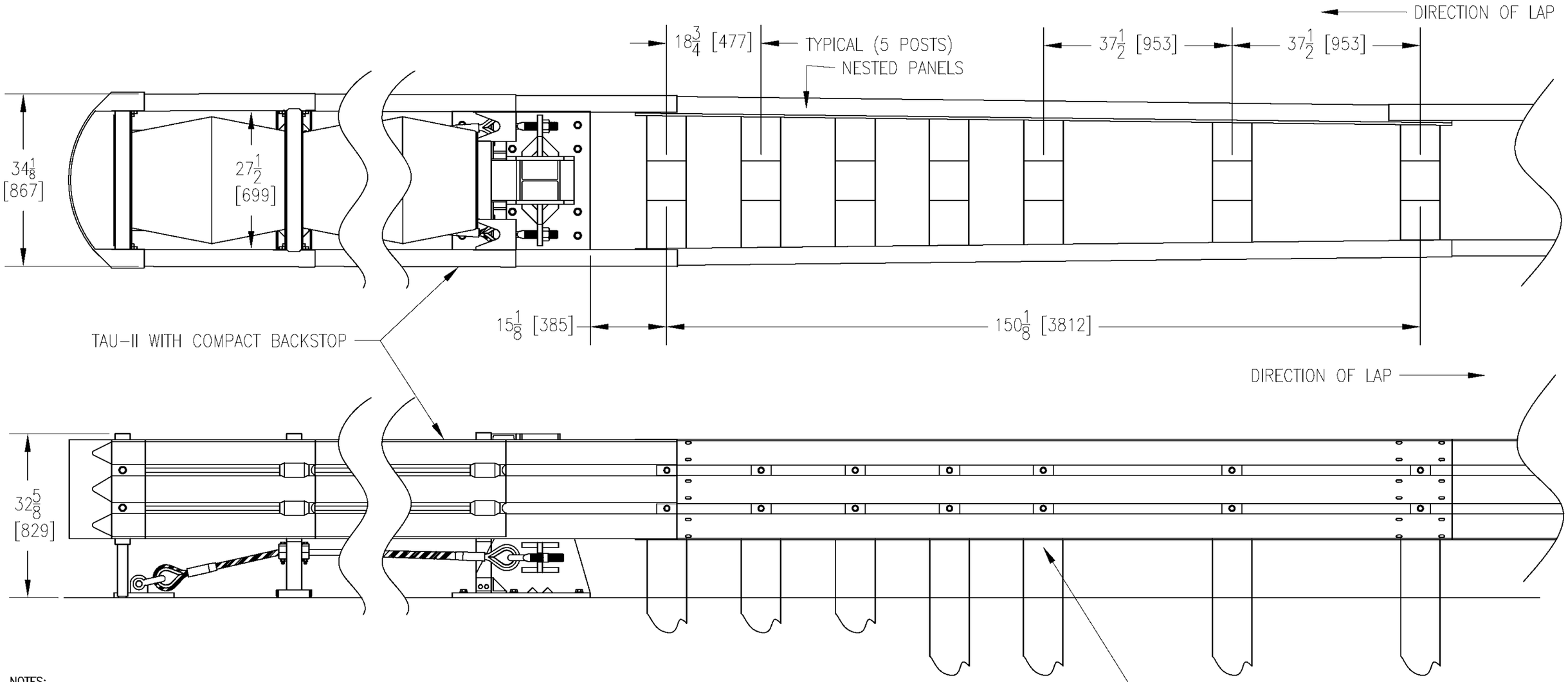
SCALE: 1:30

	DATE	INIT.
DRAWN BY	07/09/01	GAD
APPR'D BY		

Standard Tolerance
Angular ± 1/2'
Fractional ± 1/16
Dec .XXX= ± .010
Dec .XX= ± .030

TITLE :
TAU-II PARALLEL SYSTEM

MODEL	DRAWING NUMBER	REV.
	B010708-FL	0



NOTES:

1.) TAU-II SYSTEM TO BE INSTALLED PER MANUFACTURER INSTRUCTIONS. REFER TO BSI SPECIFICATION B010714 OR B010819 FOR FOUNDATION REQUIREMENTS.

2.) USE HARDWARE, POSTS AND BLOCKOUTS IN ACCORDANCE WITH FLORIDA DOT SPECIFICATIONS. SUPPORT POSTS AND BLOCKOUTS SHALL MEET REQUIREMENTS OF FLORIDA DOT INDEX 400 AND FLORIDA DOT SPECIFICATIONS.

3.) 4-SPACE THRIE BEAM GUARDRAIL PER AASHTO HARDWARE SPECIFICATION RTM01. GALVANIZE IN ACCORDANCE WITH FLORIDA DOT SPECIFICATION 967.

4.) TWO (2) 4-SPACED THRIE BEAM GUARDRAIL (RTM04) PANELS NESTED ONE SET INSIDE THE OTHER FOR BI-DIRECTIONAL TRAFFIC CONDITIONS. ONLY NEEDED ON SIDE WHERE TAU-II SYSTEM IS DOWNSTREAM OF TRANSITION.

5.) 5/8" DIA BUTTON HEAD BOLT WITH BEAM WASHER AND NUT WITH WASHER AND BEAM WASHER. BOLT LENGTH DETERMINED BY SECTION WIDTH.

6.) WHERE REAMING IS NECESSARY TO FIT NESTED BEAMS AND TERMINAL CONNECTORS THE REAMED SURFACES SHALL BE METALIZED IN ACCORDANCE WITH FLORIDA DOT INDEX 400.

7.) ALL HARDWARE AND FASTENERS TO BE GALVANIZED IN ACCORDANCE WITH FLORIDA DOT SPECIFICATION 967.

REV.	CHANGES	DATE	BY	REQ'D	NEXT ASSY.	ITEM
C	SEE ECN 00569	1/16/04	GAD			
B	SEE ECN 00368	4/26/02	GAD			
A	RELEASE PREP.	11/19/01	GAD			

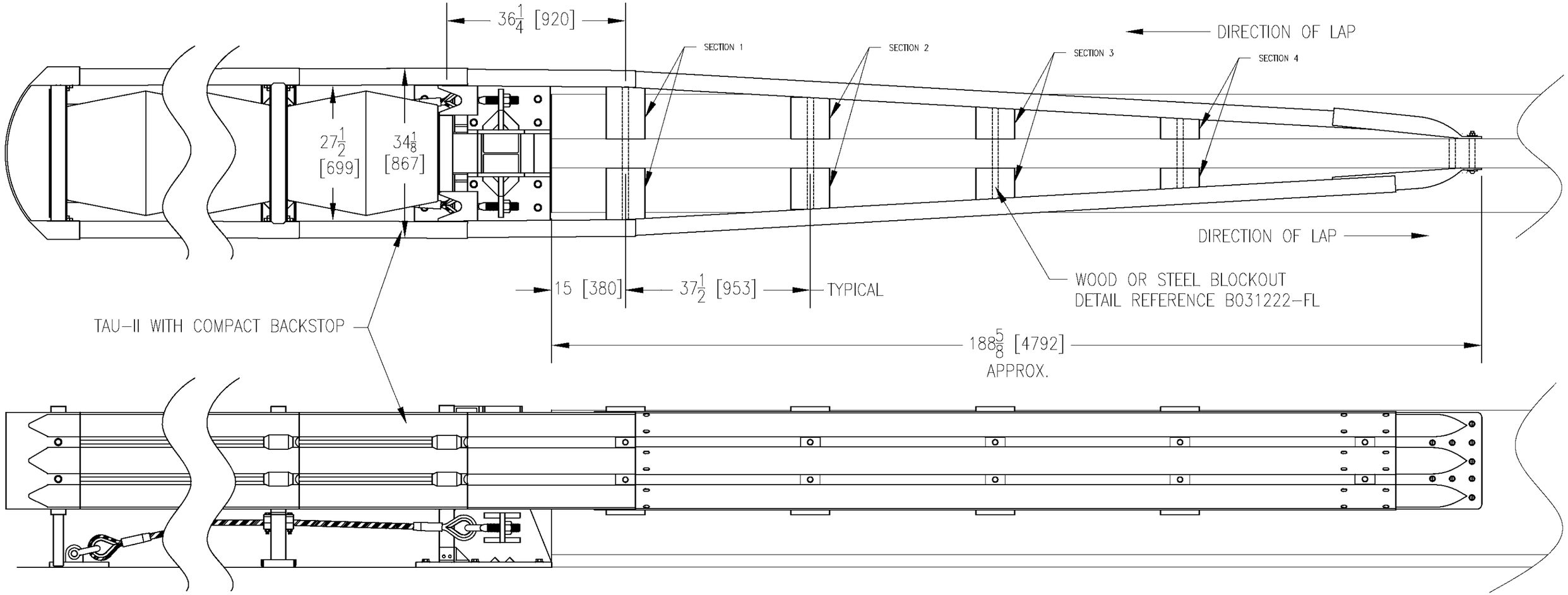
SCALE: 1=20

	DATE	INIT.
DRAWN BY	07/02/01	RGC
APPR'D BY		

Standard Tolerance
Angular ± 1/2°
Fractional ± 1/16
Dec .XXX= ± .010
Dec .XX= ± .030

TITLE: TAU-II WITH COMPACT BACKSTOP, TRANSITION TO THRIE BEAM GUARDRAIL

MODEL	DRAWING NUMBER	REV.
	B010724-FL	C



NOTES:

1.) REINFORCEMENT OF SAFETY SHAPED BARRIER END MAY BE NEEDED. REFER TO BSI SPECIFICATION B010714 OR B010819 FOR FOUNDATION REQUIREMENTS.

2.) USE HARDWARE AND BLOCKOUTS IN ACCORDANCE WITH FLORIDA DOT SPECIFICATIONS. REFERENCE INDEX 400 DETAIL J AND INDEX 410 'GUARDRAIL CONNECTION TO CONCRETE BARRIER WALL APPROACH ENDS'.

3.) 4-SPACE THRIE BEAM GUARDRAIL PER AASHTO HARDWARE SPECIFICATION RTM01. GALVANIZE IN ACCORDANCE WITH FLORIDA DOT SPECIFICATION 967.

4.) THRIE BEAM TERMINAL CONNECTOR PER AASHTO HARDWARE SPECIFICATION RTE01. GALVANIZE IN ACCORDANCE WITH FLORIDA DOT SPECIFICATION 967.

5.) STANDARD TIMBER OR PLASTIC OFFSET BLOCKS FIELD TRIMMED FOR USE AT SECTIONS 1-4. REFERENCE BSI DRAWING B031222-FL FOR BLOCKOUT DETAILS. BLOCKOUTS SHALL MEET REQUIRMENTS OF FLORIDA DOT INDEX 400, 410, AND FLORIDA DOT SPECIFICATIONS.

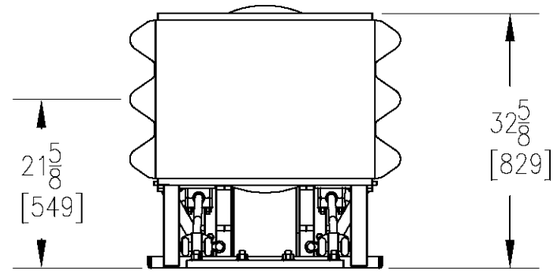
6.) 5/8" DIA BUTTON HEAD BOLT WITH BEAM WASHER AND NUT WITH WASHER AND BEAM WASHER. BOLT LENGTH DETERMINED BY SECTION WIDTH: 1-$28\frac{1}{2}$", 2-$24\frac{1}{2}$", 3-$20\frac{1}{2}$", AND 4-$16\frac{1}{2}$". LENGTHS MAY VARY WITH DIFFERENT BARRIER SHAPES. HOLES DRILLED THROUGH CONCRETE BARRIER ARE 3/4" DIA.

7.) ATTACH THRIE BEAM TERMINAL CONNECTOR TO MEDIAN BARRIER WALL WITH (5) 7/8" X 15" LONG HS HEX BOLTS AND NUTS WITH 7/8" PLAIN ROUND WASHERS UNDER HEADS AND NUTS. ATTACH TO SHOULDER BARRIER WALL WITH A 21" X 12" X 5/8" THRIE BEAM TERMINAL CONNECTOR PLATE AND (5) 7/8" X 12" LONG HS HEX BOLTS AND NUTS WITH 7/8" PLAIN ROUND WASHERS UNDER HEADS AND NUTS.

8.) WHERE REAMING IS NECESSARY TO FIT NESTED BEAMS AND TERMINAL CONNECTORS THE REAMED SURFACES SHALL BE METALIZED IN ACCORDANCE WITH FLORIDA DOT INDEX 400.

9.) ALL HARDWARE AND FASTENERS TO BE GALVANIZED IN ACCORDANCE WITH FLORIDA DOT SPECIFICATION 967.

10.) TAU-II SYSTEM TO BE INSTALLED PER MANUFACTURER INSTRUCTIONS.



REV.	CHANGES	DATE	BY	REQ'D	NEXT ASSY.	ITEM
D	SEE ECN 00569	1/15/04	GAD			
C	SEE ECN 00557	12/29/03	GAD			
B	SEE ECN 00368	4/25/02	GAD			
A	RELEASE PREP.	11/19/01	GAD	NA	NA	NA

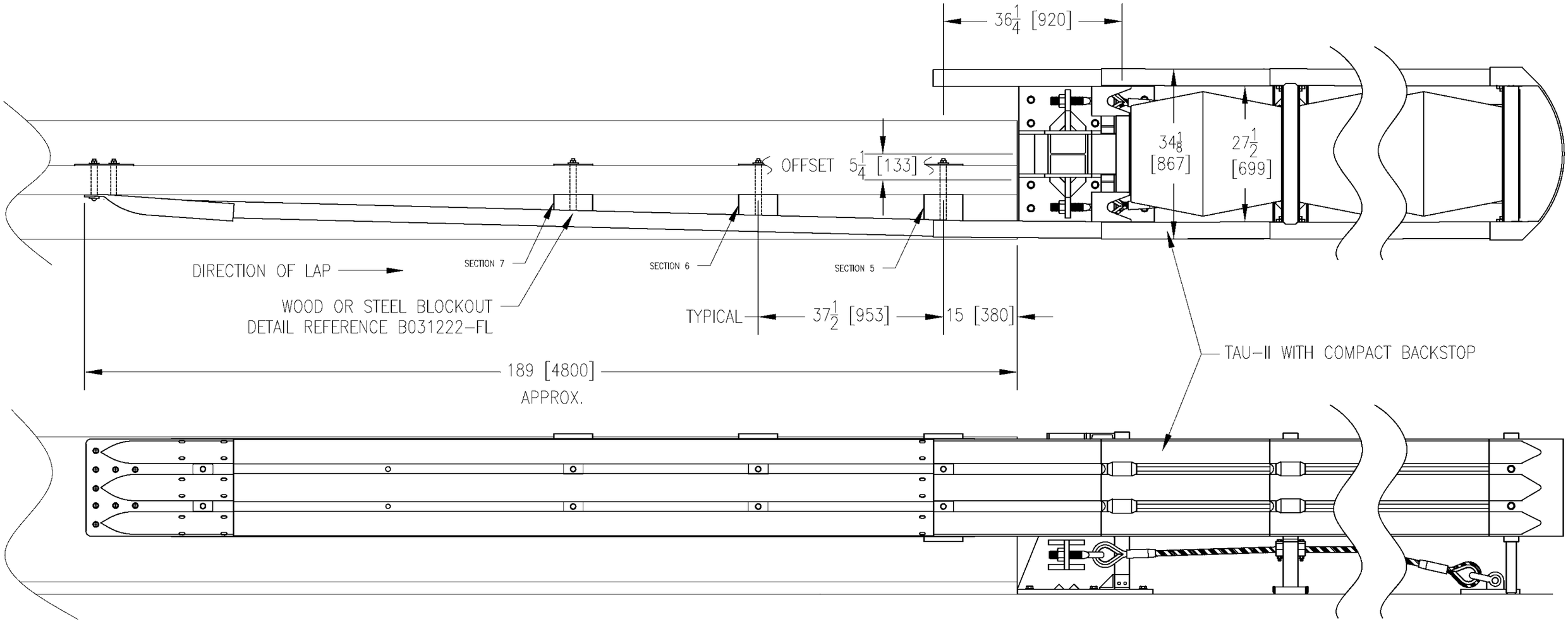
SCALE: 1=20

	DATE	INIT.
DRAWN BY	07/02/01	RGC
APPR'D BY	11/19/01	JSM

Standard Tolerance
Angular ± 1/2"
Fractional ± 1/16
Dec .XXX= ± .010
Dec .XX= ± .030

TITLE: TAU-II WITH COMPACT BACKSTOP, TRANSITION TO SAFETY SHAPE P.C.B

MODEL	DRAWING NUMBER	REV.
	B010725-FL	D



NOTES:

1.) REINFORCEMENT OF SAFETY SHAPED BARRIER END MAY BE NEEDED. REFER TO BSI SPECIFICATION B010714 OR B010819 FOR FOUNDATION REQUIREMENTS.

2.) USE HARDWARE AND BLOCKOUTS IN ACCORDANCE WITH FLORIDA DOT SPECIFICATIONS. REFERENCE INDEX 400 DETAIL J AND INDEX 410 'GUARDRAIL CONNECTION TO CONCRETE BARRIER WALL APPROACH ENDS'.

3.) 4-SPACE THRIE BEAM GUARDRAIL PER AASHTO HARDWARE SPECIFICATION RTM01. GALVANIZE IN ACCORDANCE WITH FLORIDA DOT SPECIFICATION 967.

4.) THRIE BEAM TERMINAL CONNECTOR PER AASHTO HARDWARE SPECIFICATION RTE01. GALVANIZE IN ACCORDANCE WITH FLORIDA DOT SPECIFICATION 967.

5.) STANDARD TIMBER OR PLASTIC OFFSET BLOCKS FIELD TRIMMED FOR USE AT SECTIONS 5,6, AND 7. REFERENCE BSI DRAWING B031222-FL FOR BLOCKOUT DETAILS. BLOCKOUTS SHALL MEET REQUIRMENTS OF FLORIDA DOT INDEX 400, 410, AND FLORIDA DOT SPECIFICATIONS.

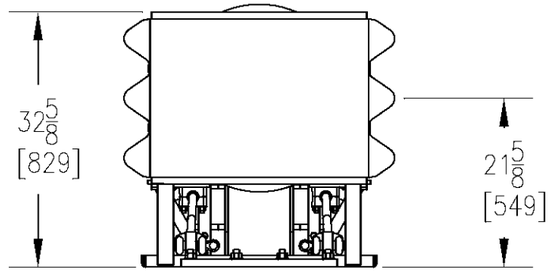
6.) 5/8" DIA BUTTON HEAD BOLT WITH BEAM WASHER AND NUT WITH WASHER AND BEAM WASHER. BOLT LENGTH DETERMINED BY SECTION WIDTH: 5-14 3/4", 6-12 3/4", AND 7-10 3/4". LENGTHS MAY VARY WITH DIFFERENT BARRIER SHAPES. A 12" X 12" X 1/4" BACK-UP PLATE WITH 3/4" DIA HOLES IS REQUIRED. HOLES DRILLED THROUGH CONCRETE BARRIER ARE 3/4" DIA.

7.) ATTACH THRIE BEAM TERMINAL CONNECTOR TO MEDIAN BARRIER WALL WITH (5) 7/8" X 15" LONG HS HEX BOLTS AND NUTS WITH 7/8" PLAIN ROUND WASHERS UNDER HEADS AND NUTS. ATTACH TO SHOULDER BARRIER WALL WITH A 21" X 12" X 5/8" THRIE BEAM TERMINAL CONNECTOR PLATE AND (5) 7/8" X 12" LONG HS HEX BOLTS AND NUTS WITH 7/8" PLAIN ROUND WASHERS UNDER HEADS AND NUTS.

8.) WHERE REAMING IS NECESSARY TO FIT NESTED BEAMS AND TERMINAL CONNECTORS THE REAMED SURFACES SHALL BE METALIZED IN ACCORDANCE WITH FLORIDA DOT INDEX 400.

9.) ALL HARDWARE AND FASTENERS TO BE GALVANIZED IN ACCORDANCE WITH FLORIDA DOT SPECIFICATION 967.

10.) TAU-II SYSTEM TO BE INSTALLED PER MANUFACTURER INSTRUCTIONS.



REV.	CHANGES	DATE	BY	REQ'D	NEXT ASSY.	ITEM
D	SEE ECN 00569	1/16/04	GAD			
C	SEE ECN 00557	12/29/03	GAD			
B	SEE ECN 00368	4/26/02	GAD			
A	RELEASE PREP.	11/19/01	GAD	NA	NA	NA

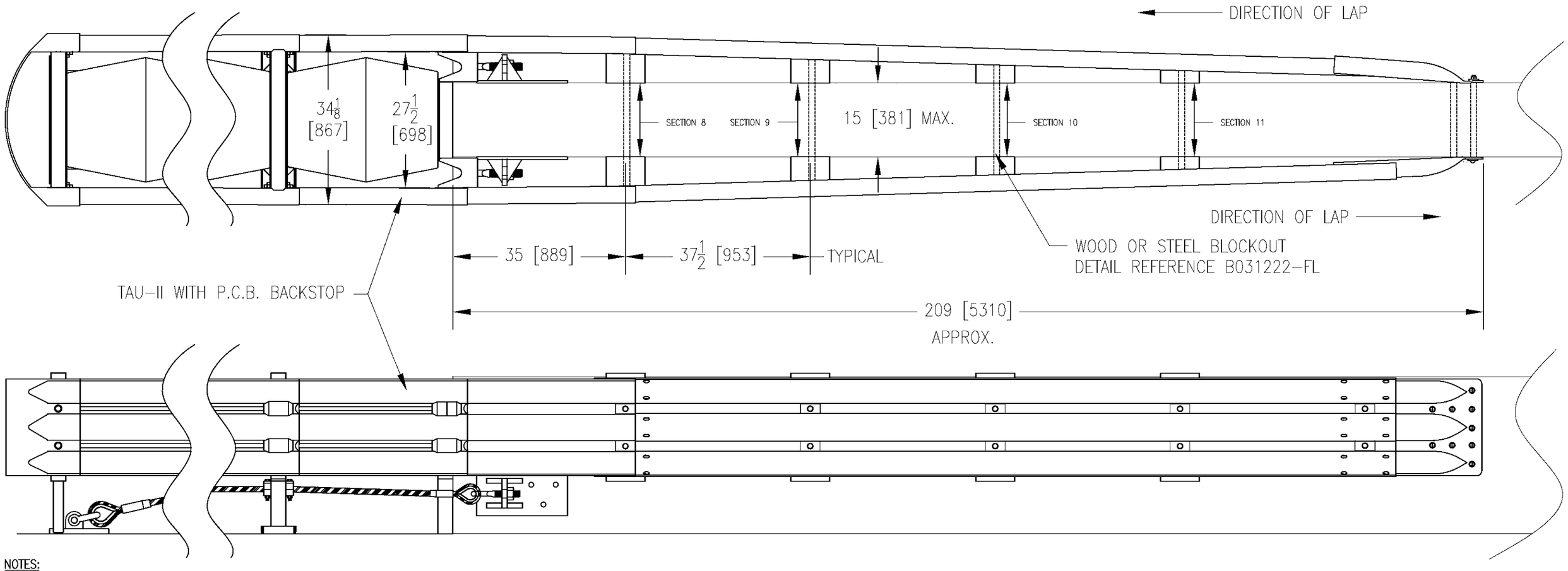
SCALE: 1=20

	DATE	INIT.
DRAWN BY	07/02/01	RGC
APPR'D BY	11/20/01	JSM

Standard Tolerance
Angular ± 1/2"
Fractional ± 1/16
Dec .XXX= ± .010
Dec .XX= ± .030

TITLE: TAU-II WITH COMPACT BACKSTOP, TRANSITION TO SAFETY SHAPE P.C.B, OFFSET

MODEL	DRAWING NUMBER	REV.
	B010726-FL	D



NOTES:

1.) REINFORCEMENT OF SAFETY SHAPED BARRIER END MAY BE NEEDED. REFER TO BSI SPECIFICATION B011044 OR B011045 FOR FOUNDATION REQUIREMENTS.

2.) USE HARDWARE AND BLOCKOUTS IN ACCORDANCE WITH FLORIDA DOT SPECIFICATIONS. REFERENCE INDEX 400 DETAIL J AND INDEX 410 'GUARDRAIL CONNECTION TO CONCRETE BARRIER WALL APPROACH ENDS'.

3.) 4-SPACE THRIE BEAM GUARDRAIL PER AASHTO HARDWARE SPECIFICATION RTM01. GALVANIZE IN ACCORDANCE WITH FLORIDA DOT SPECIFICATION 967.

4.) THRIE BEAM TERMINAL CONNECTOR PER AASHTO HARDWARE SPECIFICATION RTE01. GALVANIZE IN ACCORDANCE WITH FLORIDA DOT SPECIFICATION 967.

5.) STANDARD TIMBER OR PLASTIC OFFSET BLOCKS FIELD TRIMMED FOR USE AT SECTIONS 8-11. REFERENCE BSI DRAWING B031222-FL FOR BLOCKOUT DETAILS. BLOCKOUTS SHALL MEET REQUIRMENTS OF FLORIDA DOT INDEX 400, 410, AND FLORIDA DOT SPECIFICATIONS.

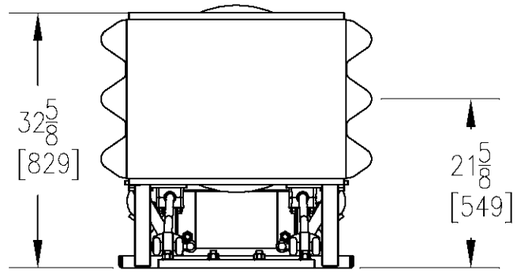
6.) 5/8" DIA BUTTON HEAD BOLT WITH BEAM WASHER AND NUT WITH WASHER AND BEAM WASHER. BOLT LENGTH DETERMINED BY SECTION WIDTH: 8-28 1/2", 9-26", 10-24", AND 11-22". LENGTHS MAY VARY WITH DIFFERENT BARRIER WIDTHS. HOLES DRILLED THROUGH CONCRETE BARRIER ARE 3/4" DIA.

7.) ATTACH THRIE BEAM TERMINAL CONNECTOR TO MEDIAN BARRIER WALL WITH (5) 7/8" X 15" LONG HS HEX BOLTS AND NUTS WITH 7/8" PLAIN ROUND WASHERS UNDER HEADS AND NUTS. ATTACH TO SHOULDER BARRIER WALL WITH A 21" X 12" X 5/8" THRIE BEAM TERMINAL CONNECTOR PLATE AND (5) 7/8" X 12" LONG HS HEX BOLTS AND NUTS WITH 7/8" PLAIN ROUND WASHERS UNDER HEADS AND NUTS.

8.) WHERE REAMING IS NECESSARY TO FIT NESTED BEAMS AND TERMINAL CONNECTORS THE REAMED SURFACES SHALL BE METALIZED IN ACCORDANCE WITH FLORIDA DOT INDEX 400.

9.) ALL HARDWARE AND FASTENERS TO BE GALVANIZED IN ACCORDANCE WITH FLORIDA DOT SPECIFICATION 967.

10.) TAU-II SYSTEM TO BE INSTALLED PER MANUFACTURER INSTRUCTIONS.



REV.	CHANGES	DATE	BY	REQ'D	NEXT ASSY.	ITEM
D	SEE ECN 00569	1/16/04	GAD			
C	SEE ECN 00557	12/29/03	GAD			
B	SEE ECN 00368	4/25/02	GAD			
A	RELEASE PREP.	11/19/01	GAD	NA	NA	NA

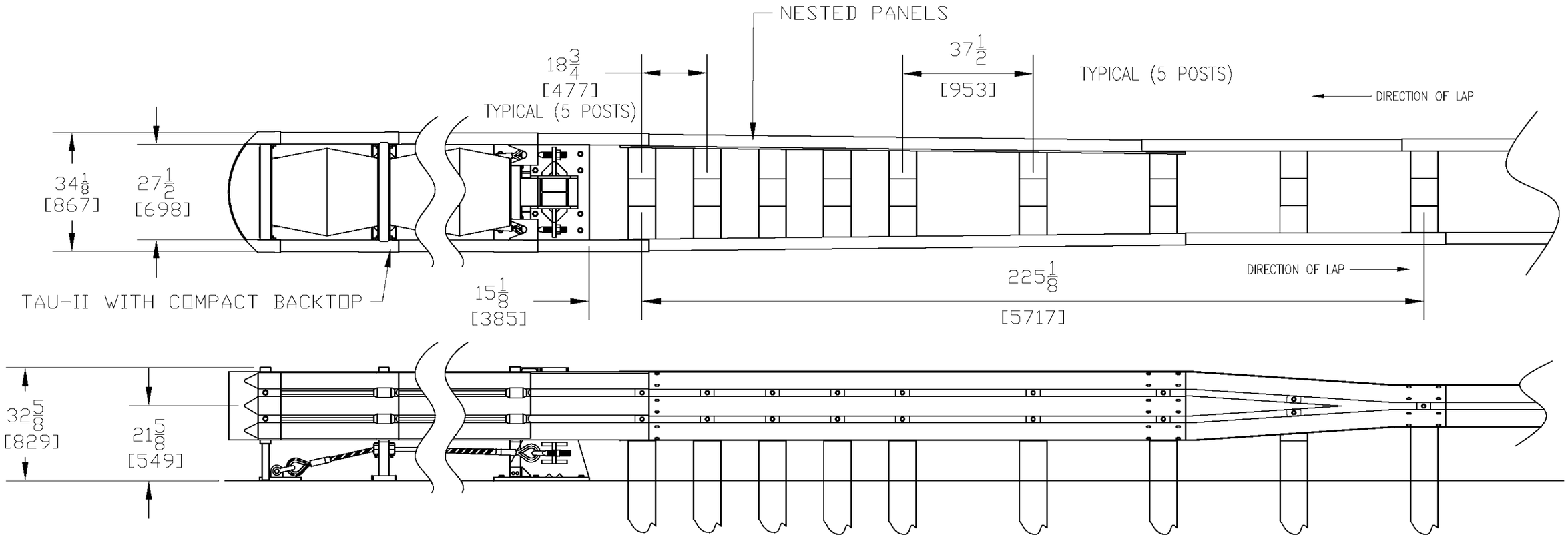
SCALE: 1=20

	DATE	INIT.
DRAWN BY	07/02/01	RGC
APPR'D BY	11/19/01	JSM

Standard Tolerance
Angular ± 1/2"
Fractional ± 1/16
Dec .XXX= ± .010
Dec .XX= ± .030

TITLE: TAU-II WITH PCB BACKSTOP TRANSITION TO VERTICAL CONCRETE

MODEL	DRAWING NUMBER	REV.
	B010727-FL	D



NOTES:

1.) TAU–II SYSTEM TO BE INSTALLED PER MANUFACTURER INSTRUCTIONS. REFER TO BSI SPECIFICATION B010714 OR B010819 FOR FOUNDATION REQUIREMENTS.

2.) USE HARDWARE, POSTS AND BLOCKOUTS IN ACCORDANCE WITH FLORIDA DOT SPECIFICATIONS. SUPPORT POSTS AND BLOCKOUTS SHALL MEET REQUIREMENTS OF FLORIDA DOT INDEX 400 AND FLORIDA DOT SPECIFICATIONS.

3.) 4–SPACE THRIE BEAM GUARDRAIL PER AASHTO HARDWARE SPECIFICATION RTM01. GALVANIZE IN ACCORDANCE WITH FLORIDA DOT SPECIFICATION 967.

4.) TWO (2) 4–SPACED THRIE BEAM GUARDRAIL (RTM04) PANELS NESTED ONE SET INSIDE THE OTHER FOR BI–DIRECTIONAL TRAFFIC CONDITIONS. ONLY NEEDED ON SIDE WHERE TAU–II SYSTEM IS DOWNSTREAM OF TRANSITION.

5.) W–THRIE BEAM TRANSITION SECTION PER AASHTO HARDWARE SPECIFICATION RWTD1. GALVANIZE IN ACCORDANCE WITH FLORIDA DOT SPECIFICATION 967.

6.) FLORIDA DOT W–BEAM GUARDRAIL.

7.) 5/8" DIA BUTTON HEAD BOLT WITH BEAM WASHER AND NUT WITH WASHER AND BEAM WASHER. BOLT LENGTH DETEMINED BY SECTION WIDTH.

8.) WHERE REAMING IS NECESSARY TO FIT NESTED BEAMS AND TERMINAL CONNECTORS THE REAMED SURFACES SHALL BE METALIZED IN ACCORDANCE WITH FLORIDA DOT INDEX 400.

9.) ALL HARDWARE AND FASTENERS TO BE GALVANIZED IN ACCORDANCE WITH FLORIDA DOT SPECIFICATION 967.

REV.	CHANGES	DATE	BY	REQ'D	NEXT ASSY.	ITEM
C	SEE ECN 00569	1/16/04	GAD			
B	SEE ECN 00368	4/26/02	GAD			
A	RELEASE PREP.	11/20/01	GAD			

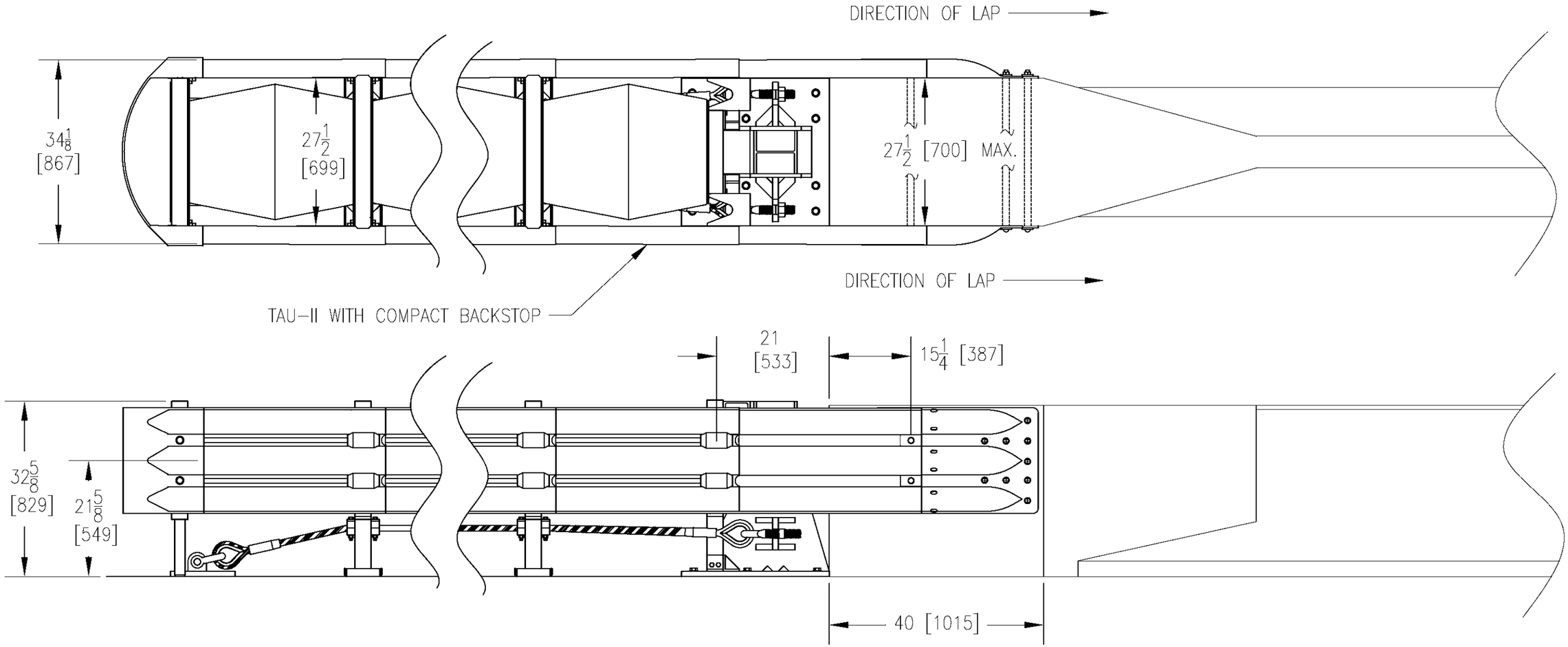
SCALE: 1:30

	DATE	INIT.
DRAWN BY	09/05/01	RGC
APPR'D BY	11/20/01	JSM

Standard Tolerance
Angular ± 1/2'
Fractional ± 1/16
Dec .XXX= ± .010
Dec .XX= ± .030

TITLE : TAU–II WITH COMPACT BACKSTOP, TRANSITION TO W–BEAM

MODEL	DRAWING NUMBER	REV.
	B010728–FL	C



NOTES:

1.) REINFORCEMENT OF SAFETY SHAPED BARRIER END MAY BE NEEDED. REFER TO BSI SPECIFICATION B010714 OR B010819 FOR FOUNDATION REQUIREMENTS.

2.) USE HARDWARE IN ACCORDANCE WITH FLORIDA DOT SPECIFICATIONS. REFERENCE INDEX 400 DETAIL J AND INDEX 410 'GUARDRAIL CONNECTION TO CONCRETE BARRIER WALL APPROACH ENDS'.

3.) THRIE BEAM TERMINAL CONNECTOR PER AASHTO HARDWARE SPECIFICATION RTE01. GALVANIZE IN ACCORDANCE WITH FLORIDA DOT SPECIFICATION 967.

4.) ATTACH THRIE BEAM TERMINAL CONNECTOR TO MEDIAN BARRIER WALL WITH (7) 7/8" X 28½" LONG HS HEX BOLTS AND NUTS WITH 7/8" PLAIN ROUND WASHERS UNDER HEADS AND NUTS OR USE 3/4" THREADED ANCHORS AND EPOXY WITH MINIMUM 6" EMBEDMENT.

5.) WHERE REAMING IS NECESSARY TO FIT NESTED BEAMS AND TERMINAL CONNECTORS THE REAMED SURFACES SHALL BE METALIZED IN ACCORDANCE WITH FLORIDA DOT INDEX 400.

6.) ALL HARDWARE AND FASTENERS TO BE GALVANIZED IN ACCORDANCE WITH FLORIDA DOT SPECIFICATION 967.

7.) TAU-II SYSTEM TO BE INSTALLED PER MANUFACTURER INSTRUCTIONS.

REV.	CHANGES	DATE	BY	REQ'D	NEXT ASSY.	ITEM
D	SEE ECN 00569	1/16/04	GAD			
C	SEE ECN 00557	12/29/03	GAD			
B	SEE ECN 00368	4/26/02	GAD			
A	RELEASE PREP.	11/19/01	GAD	NA	NA	NA

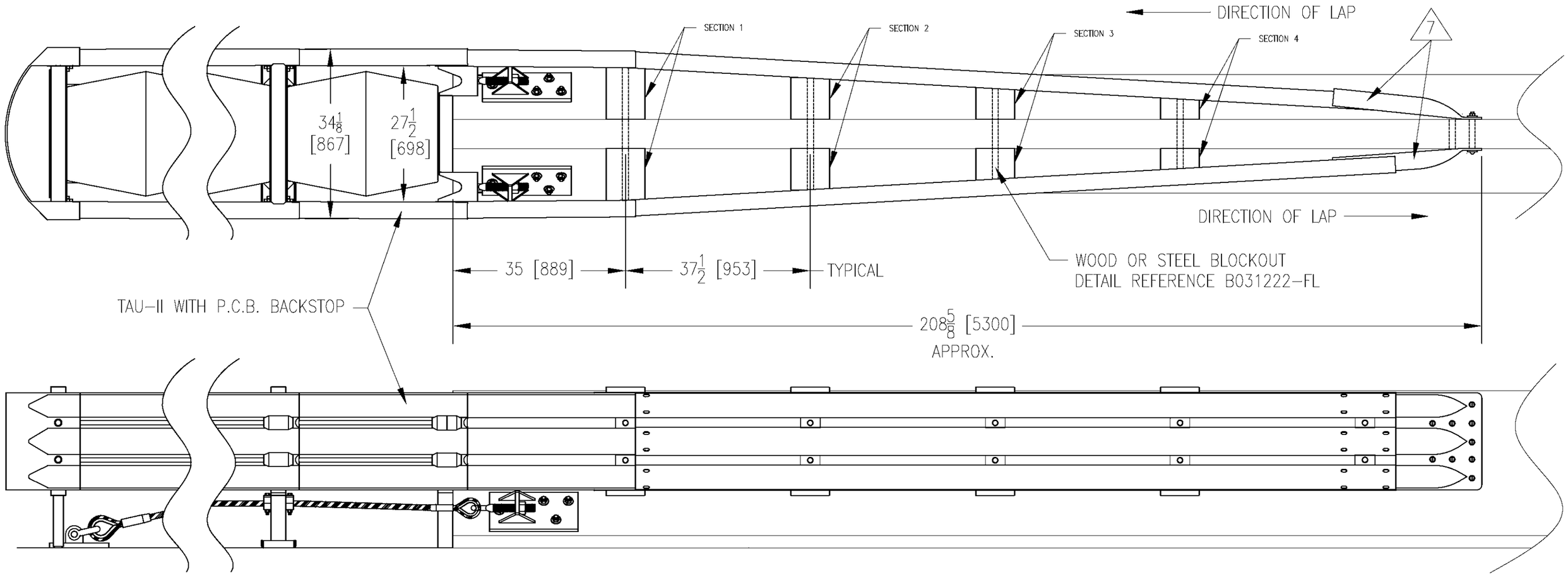
SCALE: 1=20

	DATE	INIT.
DRAWN BY	07/02/01	RGC
APPR'D BY	11/20/01	JSM

Standard Tolerance
Angular ± 1/2°
Fractional ± 1/16
Dec .XXX= ± .010
Dec .XX= ± .030

TITLE: TAU-II WITH COMPACT BACKSTOP, TRANSITION TO CONCRETE END SHOE

MODEL	DRAWING NUMBER	REV.
	B010806-FL	D



NOTES:

1.) REINFORCEMENT OF SAFETY SHAPED BARRIER END MAY BE NEEDED. REFER TO BSI SPECIFICATION B011044 OR B011045 FOR FOUNDATION REQUIREMENTS.

2.) USE HARDWARE AND BLOCKOUTS IN ACCORDANCE WITH FLORIDA DOT SPECIFICATIONS. REFERENCE INDEX 400 DETAIL J AND INDEX 410 'GUARDRAIL CONNECTION TO CONCRETE BARRIER WALL APPROACH ENDS'.

3.) 4-SPACE THRIE BEAM GUARDRAIL PER AASHTO HARDWARE SPECIFICATION RTM01. GALVANIZE IN ACCORDANCE WITH FLORIDA DOT SPECIFICATION 967.

4.) THRIE BEAM TERMINAL CONNECTOR PER AASHTO HARDWARE SPECIFICATION RTE01. GALVANIZE IN ACCORDANCE WITH FLORIDA DOT SPECIFICATION 967.

5.) STANDARD TIMBER OR PLASTIC OFFSET BLOCKS FIELD TRIMMED FOR USE AT SECTIONS 1-4. REFERENCE BSI DRAWING B031222-FL FOR BLOCKOUT DETAILS. BLOCKOUTS SHALL MEET REQUIRMENTS OF FLORIDA DOT INDEX 400, 410, AND FLORIDA DOT SPECIFICATIONS.

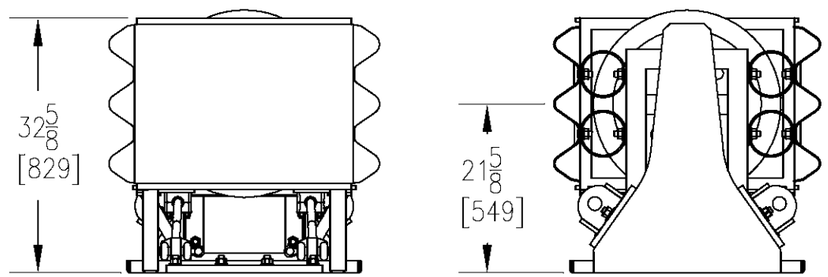
6.) 5/8" DIA BUTTON HEAD BOLT WITH BEAM WASHER AND NUT WITH WASHER AND BEAM WASHER. BOLT LENGTH DETERMINED BY SECTION WIDTH: 1-$28\frac{1}{2}$", 2-$24\frac{1}{2}$", 3-$20\frac{1}{2}$", AND 4-$16\frac{1}{2}$". LENGTHS MAY VARY WITH DIFFERENT BARRIER SHAPES. HOLES DRILLED THROUGH CONCRETE BARRIER ARE 3/4" DIA.

7.) ATTACH THRIE BEAM TERMINAL CONNECTOR TO MEDIAN BARRIER WALL WITH (5) 7/8" X 15" LONG HS HEX BOLTS AND NUTS WITH 7/8" PLAIN ROUND WASHERS UNDER HEADS AND NUTS. ATTACH TO SHOULDER BARRIER WALL WITH A 21" X 12" X 5/8" THRIE BEAM TERMINAL CONNECTOR PLATE AND (5) 7/8" X 12" LONG HS HEX BOLTS AND NUTS WITH 7/8" PLAIN ROUND WASHERS UNDER HEADS AND NUTS.

8.) WHERE REAMING IS NECESSARY TO FIT NESTED BEAMS AND TERMINAL CONNECTORS THE REAMED SURFACES SHALL BE METALIZED IN ACCORDANCE WITH FLORIDA DOT INDEX 400.

9.) ALL HARDWARE AND FASTENERS TO BE GALVANIZED IN ACCORDANCE WITH FLORIDA DOT SPECIFICATION 967.

10.) TAU-II SYSTEM TO BE INSTALLED PER MANUFACTURER INSTRUCTIONS.



REV.	CHANGES	DATE	BY	REQ'D	NEXT ASSY.	ITEM
D	SEE ECN 00569	1/16/04	GAD			
C	SEE ECN 00557	12/29/03	GAD			
B	SEE ECN 00368	4/25/02	GAD			
A	RELEASE PREP.	11/19/01	GAD	NA	NA	NA

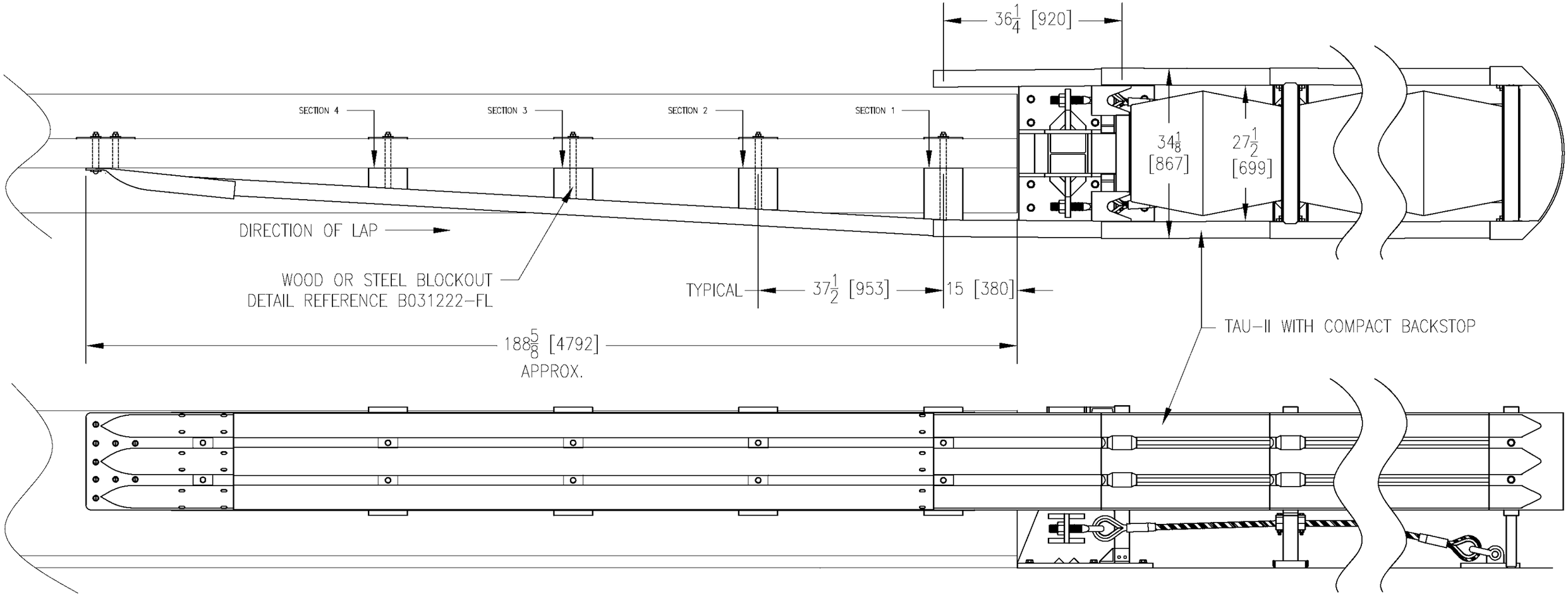
SCALE: 1=20

	DATE	INIT.
DRAWN BY	07/02/01	RGC
APPR'D BY	11/19/01	JSM

Standard Tolerance
Angular ± 1/2°
Fractional ± 1/16
Dec .XXX= ± .010
Dec .XX= ± .030

TITLE: TAU-II WITH PCB BACKSTOP TRANSITION TO SAFETY SHAPE P.C.B

MODEL	DRAWING NUMBER	REV.
	B010809-FL	D



NOTES:

1.) REINFORCEMENT OF SAFETY SHAPED BARRIER END MAY BE NEEDED. REFER TO BSI SPECIFICATION B010714 OR B010819 FOR FOUNDATION REQUIREMENTS.

2.) USE HARDWARE AND BLOCKOUTS IN ACCORDANCE WITH FLORIDA DOT SPECIFICATIONS. REFERENCE INDEX 400 DETAIL J AND INDEX 410 'GUARDRAIL CONNECTION TO CONCRETE BARRIER WALL APPROACH ENDS'.

3.) 4-SPACE THRIE BEAM GUARDRAIL PER AASHTO HARDWARE SPECIFICATION RTM01. GALVANIZE IN ACCORDANCE WITH FLORIDA DOT SPECIFICATION 967.

4.) THRIE BEAM TERMINAL CONNECTOR PER AASHTO HARDWARE SPECIFICATION RTE01. GALVANIZE IN ACCORDANCE WITH FLORIDA DOT SPECIFICATION 967.

5.) STANDARD TIMBER OR PLASTIC OFFSET BLOCKS FIELD TRIMMED FOR USE AT SECTIONS 1-4. REFERENCE BSI DRAWING B031222-FL FOR BLOCKOUT DETAILS. BLOCKOUTS SHALL MEET REQUIRMENTS OF FLORIDA DOT INDEX 400, 410, AND FLORIDA DOT SPECIFICATIONS.

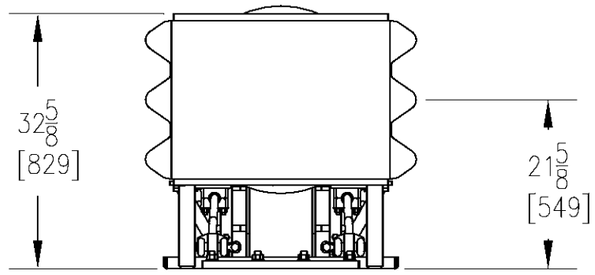
6.) 5/8" DIA BUTTON HEAD BOLT WITH BEAM WASHER AND NUT WITH WASHER AND BEAM WASHER. BOLT LENGTH DETERMINED BY SECTION WIDTH: 1-20", 2-18", 3-16", AND 4-14". LENGTHS MAY VARY WITH DIFFERENT BARRIER SHAPES. A 12" X 12" X 1/4" BACK-UP PLATE WITH 3/4" DIA HOLES IS REQUIRED. HOLES DRILLED THROUGH CONCRETE BARRIER ARE 3/4" DIA.

7.) ATTACH THRIE BEAM TERMINAL CONNECTOR TO MEDIAN BARRIER WALL WITH (5) 7/8" X 15" LONG HS HEX BOLTS AND NUTS WITH 7/8" PLAIN ROUND WASHERS UNDER HEADS AND NUTS. ATTACH TO SHOULDER BARRIER WALL WITH A 21" X 12" X 5/8" THRIE BEAM TERMINAL CONNECTOR PLATE AND (5) 7/8" X 12" LONG HS HEX BOLTS AND NUTS WITH 7/8" PLAIN ROUND WASHERS UNDER HEADS AND NUTS.

8.) WHERE REAMING IS NECESSARY TO FIT NESTED BEAMS AND TERMINAL CONNECTORS THE REAMED SURFACES SHALL BE METALIZED IN ACCORDANCE WITH FLORIDA DOT INDEX 400.

9.) ALL HARDWARE AND FASTENERS TO BE GALVANIZED IN ACCORDANCE WITH FLORIDA DOT SPECIFICATION 967.

10.) TAU-II SYSTEM TO BE INSTALLED PER MANUFACTURER INSTRUCTIONS.



REV.	CHANGES	DATE	BY	REQ'D	NEXT ASSY.	ITEM
D	SEE ECN 00569	1/16/04	GAD			
C	SEE ECN 00557	12/29/03	GAD			
B	SEE ECN 00368	4/25/02	GAD			
A	RELEASE PREP.	11/19/01	GAD	NA	NA	NA

SCALE: 1=20

	DATE	INIT.
DRAWN BY	07/02/01	RGC
APPR'D BY	11/20/01	JSM

Standard Tolerance
Angular ± 1/2"
Fractional ± 1/16
Dec .XXX= ± .010
Dec .XX= ± .030

TITLE: TAU-II WITH COMPACT BACKSTOP, TRANSITION TO SAFETY SHAPE P.C.B, ONE SIDE

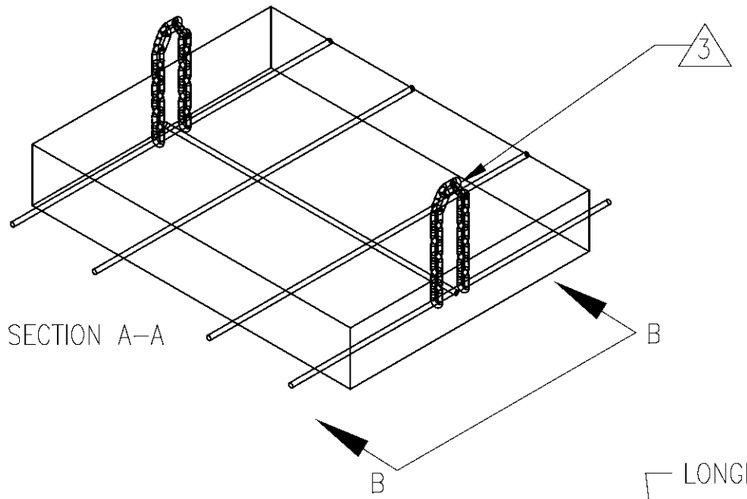
MODEL	DRAWING NUMBER	REV.
	B010811-FL	D

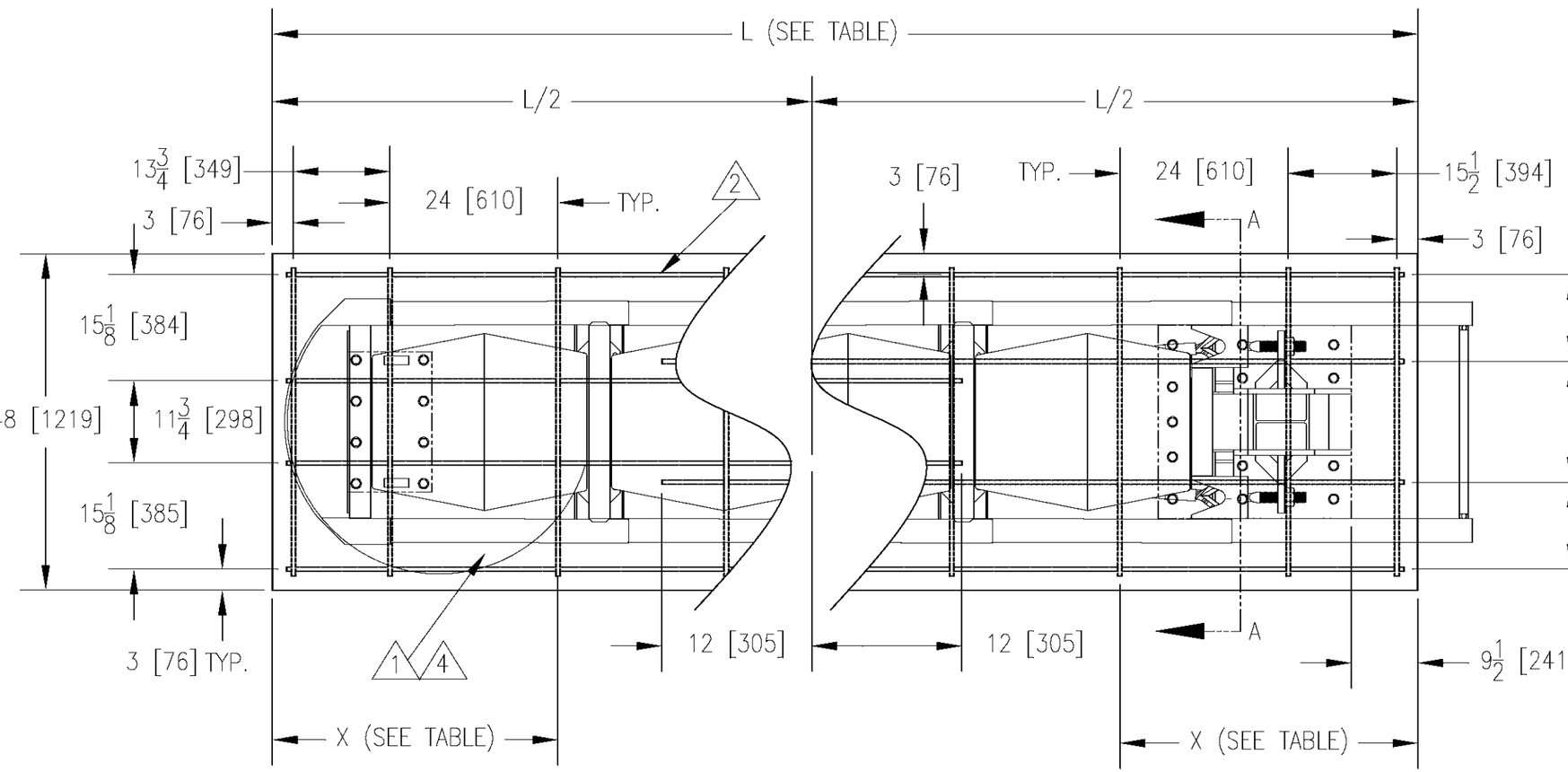
TABLE		
No. OF BAYS	PAD LENGTH, L	PICKUP POINTS, X
2	9' 7 1/2" [2934]	40 3/4" [1035] ± 2" [51]
3	12' 5 1/2" [3797]	40 3/4" [1035] ± 2" [51]
4	15' 3 1/2" [4661]	40 3/4" [1035] ± 2" [51]
5	18' 1 1/2" [5525]	64 3/4" [1645] ± 2" [51]
7	23' 10" [7264]	64 3/4" [1645] ± 2" [51]
8	26' 8" [8128]	64 3/4" [1645] ± 2" [51]
9	29' 6" [8992]	88 3/4" [2254] ± 2" [51]
10	32' 4 1/2"	88 3/4" [2254] ± 2" [51]

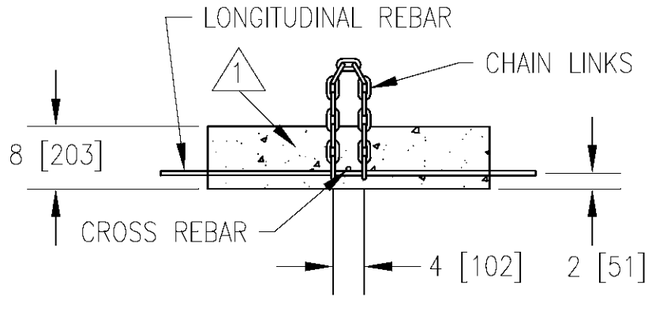
1. 8 IN [200 MM] MIN REINFORCED 4000 PSI [28 MPa] STONE AGGREGATE CONCRETE 145 LBS/CU.FT [2324 KG/CU.M].

2. #5 [15MM] REBAR

3. LIFTING POINTS: USE 1/2" [13mm] PROOF COIL CHAIN. CHAIN MUST MEET THE REQUIREMENTS OF ASTM A-413 GRADE 28. THE MINIMUM LENGTH CHAIN IS 15 LINKS AND THE REBAR WILL BE INSERTED THROUGH BOTH ENDS AS SHOWN.







4. THE CONTRACTOR IS TO FURNISH A CERTIFICATION THAT THE CONCRETE INSTALLED MEETS THE REQUIRED STRENGTH AND TESTING REQUIREMENTS.

REV.	CHANGES	DATE	BY	REQ'D	NEXT ASSY.	ITEM
C	CHANGED TABLE & TITLE	10/21/08	JR			
B	FLDOT SPECS	8/22/03	GAD			
A	SEE ECN 00409	11/7/02	GAD			

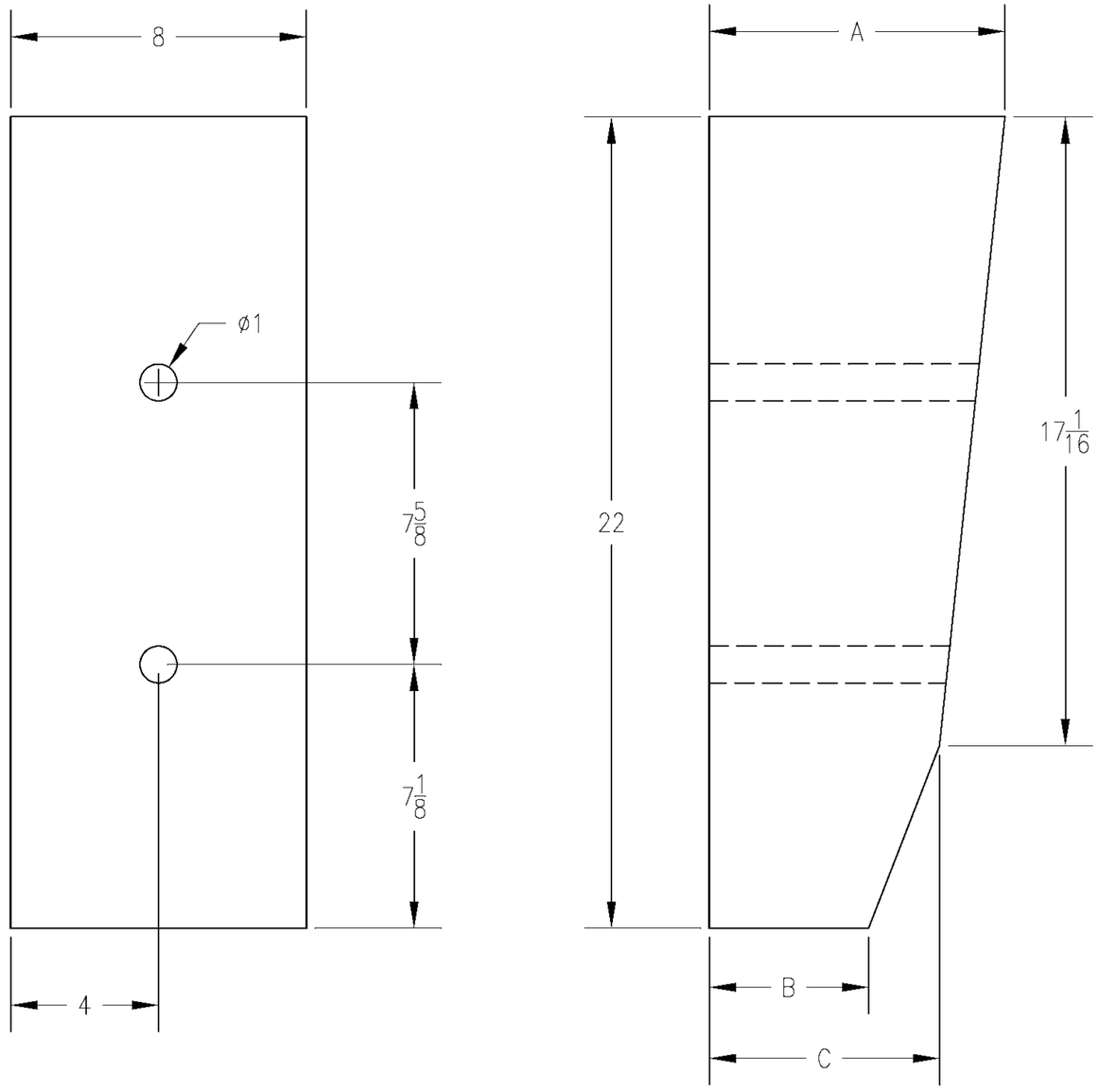
SCALE: 1=20

	DATE	INIT.
DRAWN BY	05/22/02	GAD
APPR'D BY	05/22/02	JSM

Standard Tolerance
Angular ± 1/2°
Fractional ± 1/16
Dec .XXX= ± .010
Dec .XX= ± .030

TITLE: PRE-CAST PADS, REINFORCED P.C. CONCRETE WITH COMPACT BACKSTOP

MODEL	DRAWING NUMBER	REV.
	B020516-FL	C



TRANSITION BLOCKOUT DIMENSIONS in [mm]			
SECTION	A	B	C
1	10 3/4 [273]	7 1/16 [180]	9 [230]
2	8 5/8 [220]	4 15/16 [125]	6 7/8 [175]
3	6 1/2 [165]	2 13/16 [72]	4 3/4 [120]
4	4 3/8 [112]	11/16 [18]	2 5/8 [67]
5	5 1/2 [140]	1 13/16 [46]	3 3/4 [95]
6	3 3/8 [86]	NA	1 5/8 [42]
7	1 1/4 [32]	NA	3/4 [20]
8	5 3/4 [146]	5 3/4 [146]	5 3/4 [146]
9	4 5/8 [118]	4 5/8 [118]	4 5/8 [118]
10	3 1/2 [89]	3 1/2 [89]	3 1/2 [89]
11	2 5/8 [67]	2 5/8 [67]	2 5/8 [67]

NOTES:

1.) BLOCKOUTS SHALL MEET THE REQUIREMENTS OF FLORIDA DOT INDEX 400 AND FLORIDA DOT SPECIFICATIONS. REFERENCE INDEX 400, DETAIL J AND INDEX 410 'GUARDRAIL CONNECTIONS TO CONCRETE BARRIER WALL APPROACH ENDS.

2.) BSI DRAWING REFERENCES: B010811–FL, B010809–FL, B010725–FL, B010726–FL, & B010727–FL

3.) THRIE BEAM OFFSET BLOCKS FIELD TRIMMED FOR USE AT SECTIONS 1 THROUGH 11.

REV.	CHANGES	DATE	BY	REQ'D	NEXT ASSY.	ITEM
A	SEE ECN 00569	1/16/04	GAD			

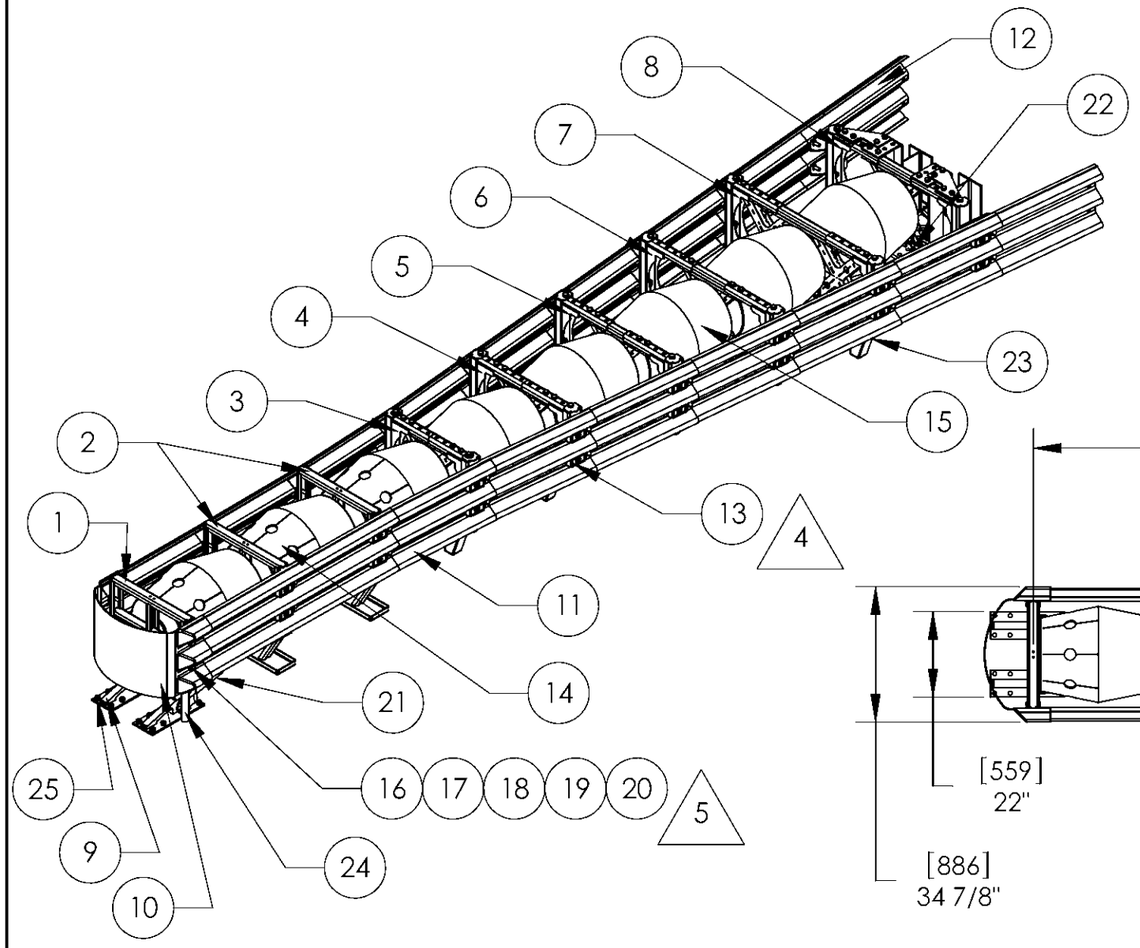
SCALE: QUARTER

	DATE	INIT.
DRAWN BY	12/31/03	GAD
APPR'D BY	12/31/03	OSD

Standard Tolerance
Angular ± 1/2°
Fractional ± 1/16
Dec .XXX=± .010
Dec .XX=± .030

TITLE : TRANSITION BLOCKOUT

MODEL	DRAWING NUMBER	REV.
	B031222–FL	A



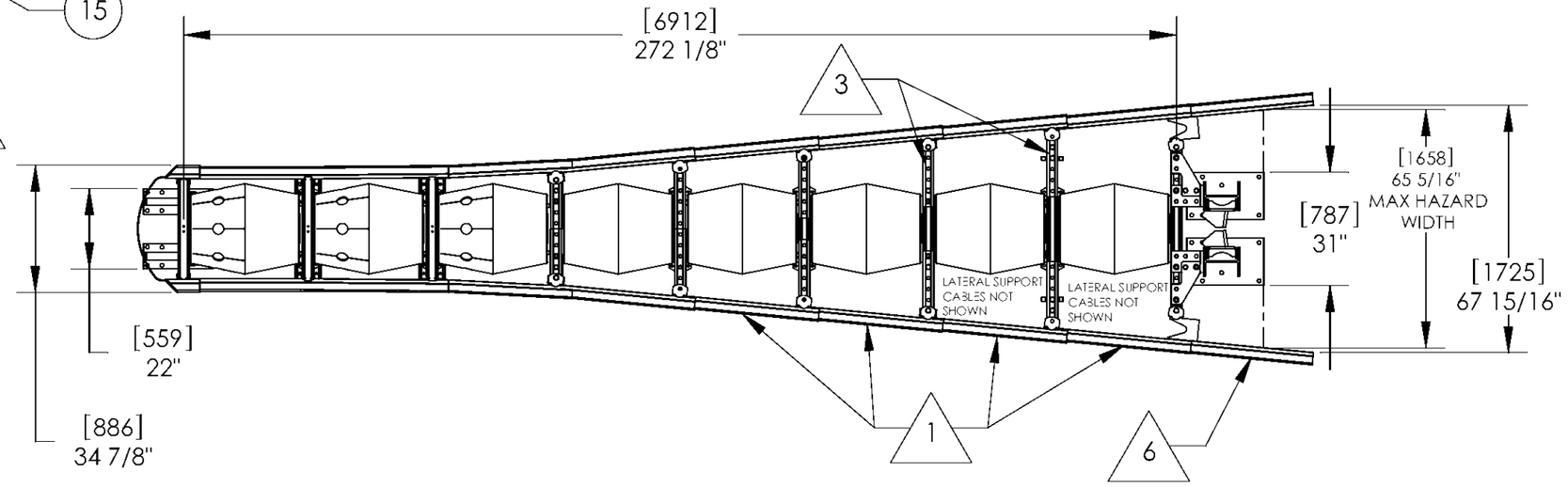
NOTES:

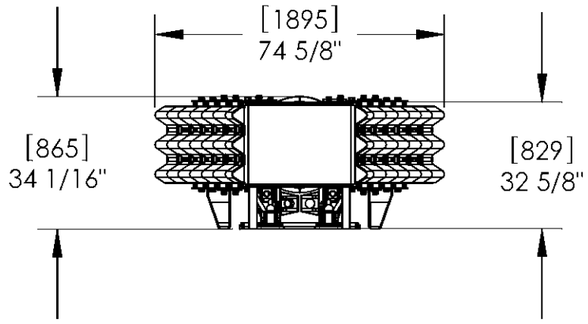
1.) NEST (2) PANELS ON LAST (4) BAYS.
2.) TENSION CABLE TO APPROXIMATELY 20,000 LBF [89 KN]. FOR 2.0" - 6.0 THREAD, TORQUE NUT TO 500 FT-LBF [680 N-m].
3.) LATERAL RESTAINT CABLES (NOT SHOWN) CONNECT THE BACKSTOPS TO THE OPPOSITE ENDS OF THE LAST (2) BULKHEADS. SEE LATERAL SUPPORT KIT B031027 FOR DETAILS AND SPECIFIC BULKHEAD ASSEMBLYS FOR MOUNTING LOCATIONS.
4.) TORQUE SLIDER BOLTS TO 20 FT-LBF [27 N-m].
5.) TORQUE NOSE PIECE ATTACHMENT HARDWARE TO 200 FT-LBF [270 N-m].
6.) TRANSITIONS MUST NOT CREATE AN EDGE CAPABLE OF SNAGGING A VEHICLE AND SHOULD REMAIN PARALLEL TO THE END PANELS AT THE CONNECTIONS. FOR BI-DIRECTIONAL TRAFFIC A STANDARD AASHTO THRIE BEAM TRANSITION SHOULD BE USED TO PREVENT SNAGGING OF THE END PANELS. THE LATERAL STIFFNESS OF THE TRANSITION SHOULD BE EQUAL TO OR STRONGER THAN THAT OF THE TAU-II SYSTEM.

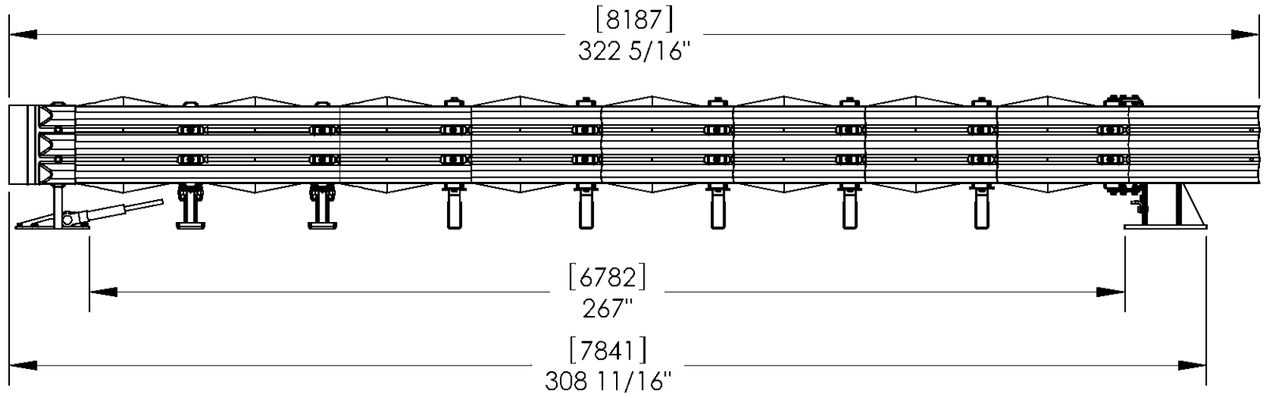
SPECIFICATIONS:

1.) ALL STEEL COMPONENTS ARE ASTM A36 OR EQUIVALENT UNLESS OTHERWISE STATED.
2.) ALL STEEL COMPONENTS ARE HOT DIPPED GALVANIZED IN ACCORDANCE WITH FLORIDA DOT SPECIFICATION 967.
3.) ALL FASTENERS ARE GRADE 2 OR EQUIVALENT AND GALVANIZED IN ACCORDANCE WITH FLORIDA DOT SPECIFICATION 967 UNLESS OTHERWISE STATED.
4.) STANDARD TORQUE SPECIFICATION FOR 20MM-2.5 FASTENERS WHEN NOT SPECIFIED IS 120 FT-LBF [160 N-M].
5.) ALL FASTENERS WILL INCORPORATE A POSITIVE THREAD LOCKING DEVICE.

ITEM	QTY / DWG	PART DESCRIPTION	SPECIFICATION/CONFIGURATION	PART #
1	1	FRONT SUPPORT	TAU-II COMPONENT	B010526
2	2	MIDDLE SUPPORT	TAU-II COMPONENT	B010530
3	1	XL BULKHEAD	MIDDLE, 30", CABLE POSITION #1	B034004
4	1	XL BULKHEAD	MIDDLE, 36", CABLE POSITION #1	B034005
5	1	XL BULKHEAD	MIDDLE, 42", CABLE POSITION #1	B034006
6	1	XL BULKHEAD	MIDDLE, 48", CABLE POSITION #1,	B034007
7	1	XXL BULKHEAD	MIDDLE, 54", CABLE POSITION #1,	B034016
8	1	60" BACKSTOP	XL BULKHEAD, 48", POSITION #1	B034011
9	2	FRONT CABLE ANCHOR	NA	B030935
10	1	NOSE / DELINIATION MARKER	NA	B010711
11	24	SLIDING PANEL	NA	B010202
12	2	END PANEL	NA	B010659
13	32	SLIDING BOLT	NA	B010842
14	3	ENERGY ABSORBING CARTRIDGE, TYPE A	NA	B010802
15	5	ENERGY ABSORBING CARTRIDGE, TYPE B	NA	B010722
16	4	EXTRA THICK FLAT WASHER	SS - 1 1/2"OD X 13/16"ID X 7/32"	2001009
17	4	HEX BOLT	MECH GALV-20MM-2.5 X 50MM	2001449
18	4	WASHER	MECH GALV-20MM	2001450
19	4	HEX NUT	MECH GALV-20MM-2.5	2001451
20	4	FENDER WASHER	SS-13/16"ID X 1 7/8"OD	2001009
21	2	CABLE [8 BAY]	NA	B034106
22	1	LATERAL SUPPORT KIT	NA	B031027
23	14	CABLE GUIDE	NA	B010721
24	2	FRONT SUPPORT LEG	NA	B010712
25	1	ANCHORING PACKAGE	SMALL, WIDE TAU-II	B031029







THIS DRAWING ILLUSTRATES THE GENERAL LAYOUT OF PARALLEL TO 60" WIDE ATTENUATOR

REV.	CHANGES	DATE	BY	REQ'D	NEXT ASSY.	ITEM
A	ADDED NOTE	10/16/08	JR	1	NA	1

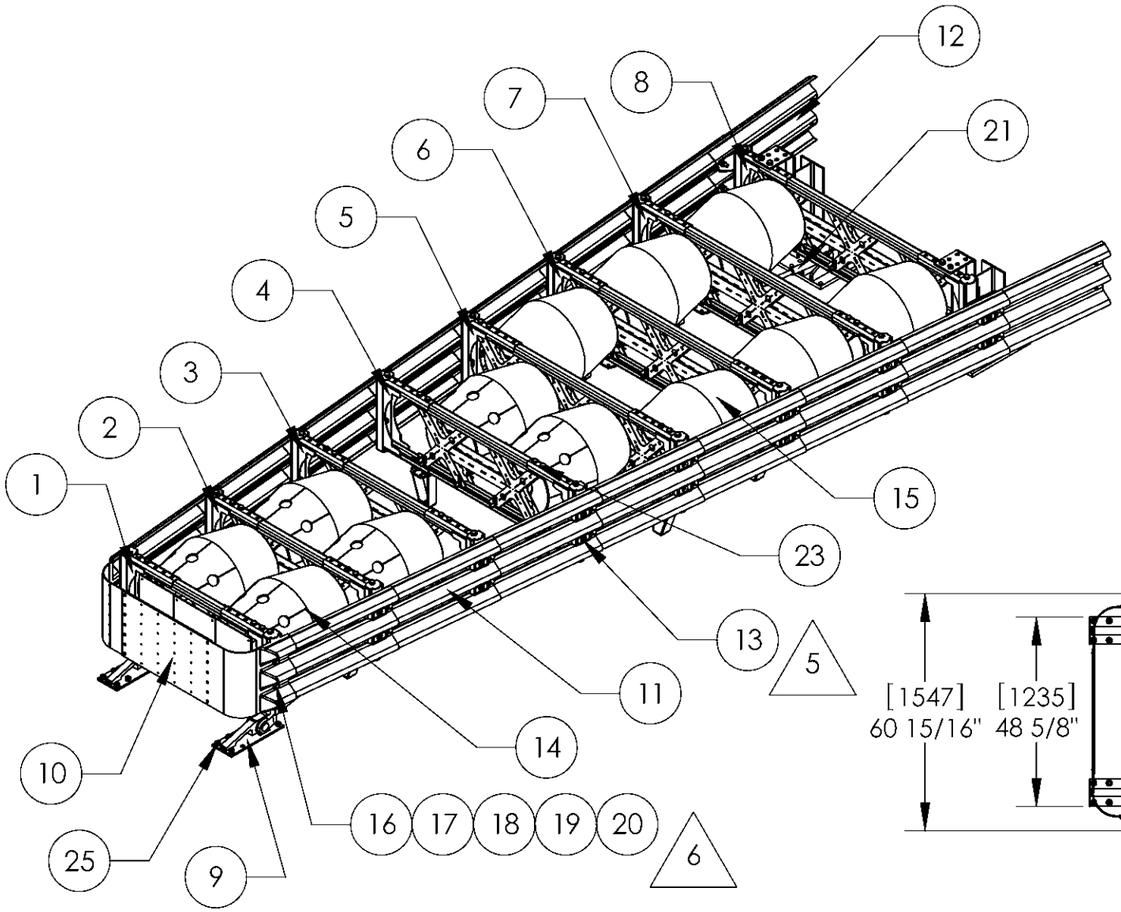
SCALE: 1:40

	DATE	INIT.
DRAWN BY	10/21/03	GAD
		JSM

Standard Tolerance
Angular +/- 1/2 Deg.
Fractional +/- 1/16
Dec. XXX= +/- .010
Dec. .XX= +/- .030

TITLE:
UNIVERSAL TAU-II 100 KPH TL-3, 60" BACKSTOP

MODEL	DRAWING NUMBER	REV
	B033004-FL	A



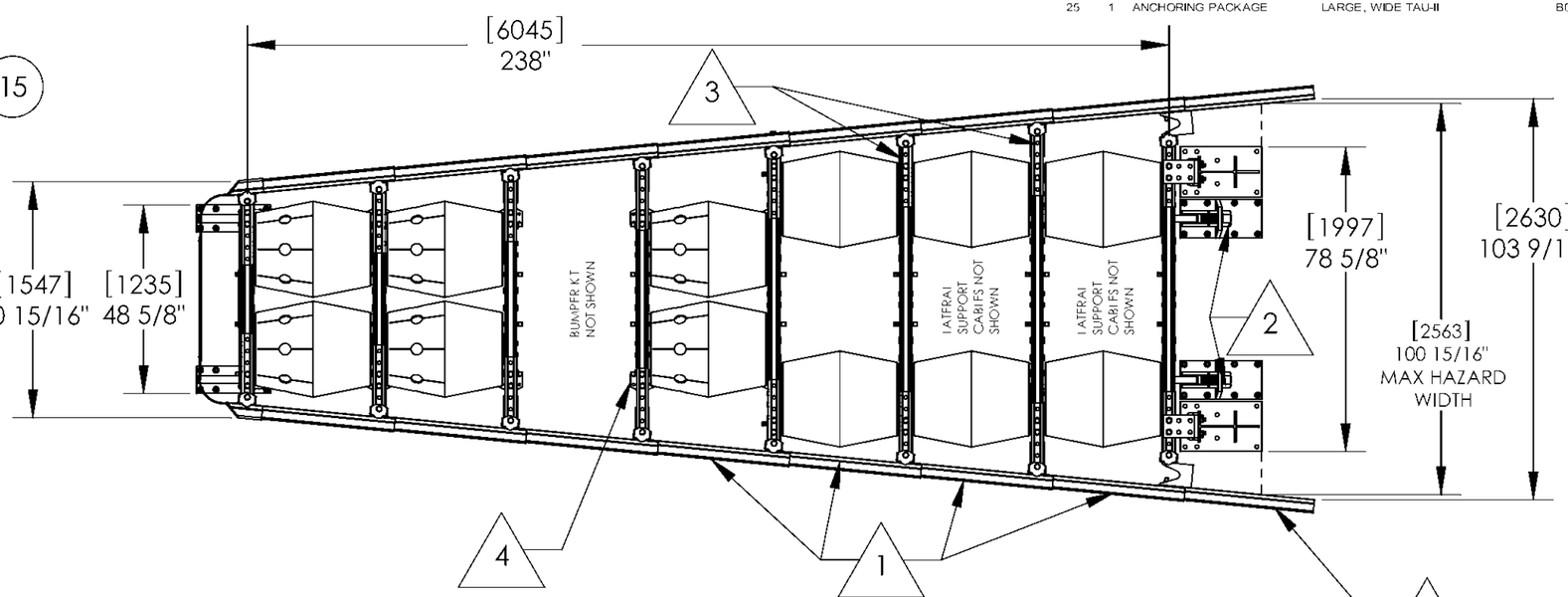
NOTES:

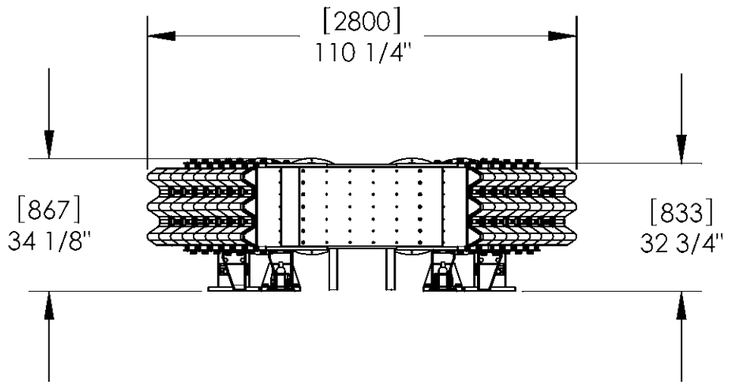
1.) NEST (2) PANELS ON LAST (4) BAYS.
2.) TENSION CABLE TO APPROXIMATELY 20,000 LBF [89 KN]. FOR 2.0" -8.0 THREAD, TORQUE NUT TO 500 FT - LBF [680 N-m].
3.) LATERAL RESTAINT CABLES (NOT SHOWN) CONNECT THE BACKSTOPS TO THE OPPOSITE ENDS OF THE LAST (2) BU. KHEADS. SEE LATERAL SUPPORT KIT 3031027 FOR DETAILS AND SPECIFIC BU. KHEAD ASSEMBLY'S FOR MOUNTING LOCATIONS.
4.) BUMPER KIT MOUNTS IN THE EMPTY BAY. SEE BUMPER KIT 3031028 FOR DETAILS AND SPECIFIC BU. KHEAD ASSEMBLY'S FOR MOUNTING LOCATIONS.
5.) TORQUE SLIDER BOLTS TO 90 FT - LBF [97 N-m].
6.) TORQUE NOSE PIECE ATTACHMENT HARDWARE TO 200 FT - LBF [270 N-m].
7.) TRANSITIONS MUST NOT CREATE AN EDGE CAPABLE OF SNAGGING A VEHICLE AND SHOULD REMAIN PARALLEL TO THE END PANELS AT THE CONNECTIONS. FOR BIDIRECTIONAL TRAFFIC A STANDARD AASHTO THRIE BEAM TRANSITION SHOULD BE USED TO PREVENT SNAGGING OF THE END PANELS. THE LATERAL STIFFNESS OF THE TRANSITION SHOULD BE EQUAL TO OR STRONGER THAN THAT OF THE TAU II SYSTEM.
8.) ITEM # 22 NOT SHOWN.

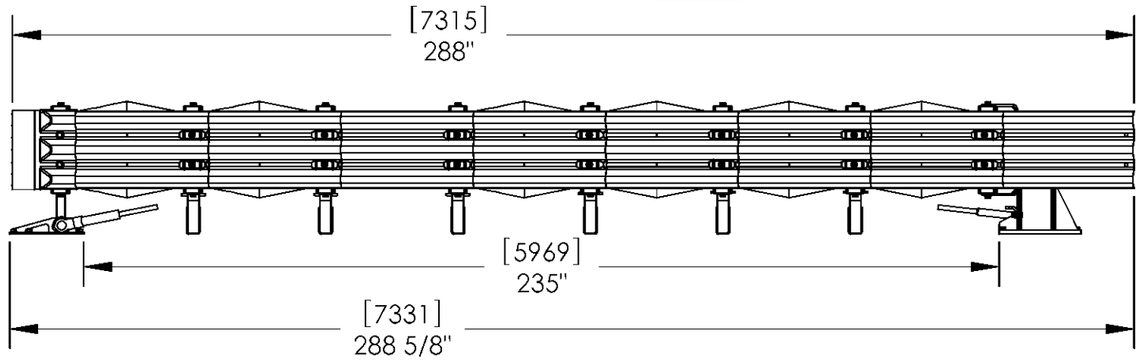
SPECIFICATIONS:

1.) ALL STEEL COMPONENTS ARE ASTM A36 OR EQUIVALENT UNLESS OTHERWISE STATED.
2.) ALL STEEL COMPONENTS ARE HOT DIPPED GALVANIZED IN ACCORDANCE WITH FLORIDA DOT SPECIFICATION 967.
3.) ALL FASTENERS ARE GRADE 2 OR EQUIVALENT AND GALVANIZED IN ACCORDANCE WITH FLORIDA DOT SPECIFICATION 967 UNLESS OTHERWISE STATED.
4.) THE STANDARD TORQUE SPECIFICATION FOR 20MM 2.5 FASTENERS WHEN NOT SPECIFIED IS 120 FT - LBF [160 N-M].
5.) ALL FASTENERS WILL INCORPORATE A POSITIVE THREAD LOCKING DEVICE.

ITEM	QTY / DWG	PART DESCRIPTION	SPECIFICATION/CONFIGURATION	PART #
1	1	XXL BULKHEAD	FRONT, 54"	B034012
2	1	XXL BULKHEAD	MIDDLE, 60", CABLE POSITION #2	B034021
3	1	XXL BULKHEAD	MIDDLE, 66", CABLE POSITION #2	B034022
4	1	XXL BULKHEAD	MIDDLE, 72", CABLE POSITION #2	B034023
5	1	XXXL BULKHEAD	MIDDLE, 78", CABLE POSITION #2	B034040
6	1	XXXL BULKHEAD	MIDDLE, 84", CABLE POSITION #2,	B034041
7	1	XXXL BULKHEAD	MIDDLE, 90", CABLE POSITION #2,	B034042
8	1	96" BACKSTOP	XXXL BULKHEAD, 84", POSITION #2	B034053
9	2	FRONT CABLE ANCHOR	NA	B030935
10	2	NOSE / DELINIATION MARKER	NA	B030902
11	22	SLIDING PANEL	NA	B010202
12	2	END PANEL	NA	B010659
13	28	SLIDING BOLT	NA	B010842
14	6	ENERGY ABSORBING CARTRIDGE, TYPE A	NA	B010802
15	6	ENERGY ABSORBING CARTRIDGE, TYPE B	NA	B010722
16	4	EXTRA THICK FLAT WASHER	SS - 1 1/2"OD X 13/16"ID X 7/32"	2001009
17	4	HEX BOLT	MECH GALV-20MM-2.5 X 50MM	2001449
18	4	WASHER	MECH GALV-20MM	2001450
19	4	HEX NUT	MECH GALV-20MM-2.5	2001451
20	4	FENDER WASHER	SS-13/16"ID X 1 7/8"OD	2001009
21	2	CABLE [7 BAY]	NA	B034105
22	1	LATERAL SUPPORT KIT	NA	B031027
23	1	BUMPER KIT	NA	B031028
24	12	CABLE GUIDE	NA	B010721
25	1	ANCHORING PACKAGE	LARGE, WIDE TAU-II	B031030







THIS DRAWING ILLUSTRATES THE GENERAL LAYOUT FOR A 96" WIDE 8-BAY TAU-II, 60 MPH RATED UNIT (MODEL # 96T100WBC)

REV.	CHANGES	DATE	BY	REQ'D	NEXT ASSY.	ITEM
B	CHANGED NOTE	04/27/09	JR			
A	ADDED NOTE	10/16/08	JR	1	NA	1

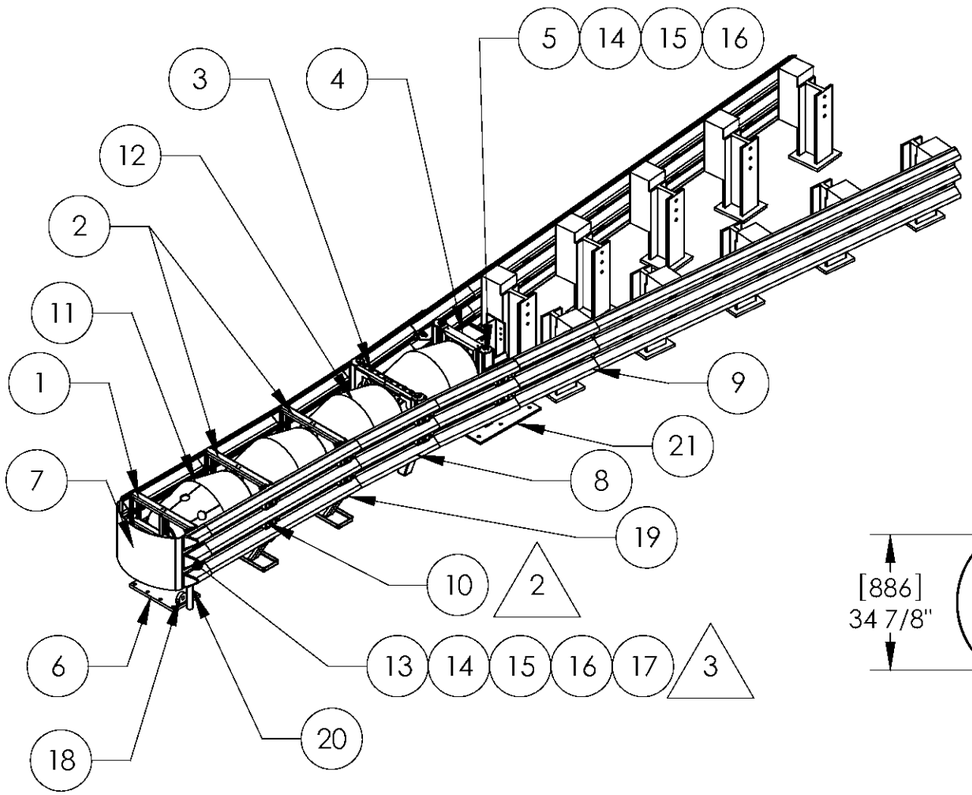
SCALE: 1:40

	DATE	INIT.
DRAWN BY	10/09/03	GAD
		JSM

Standard Tolerance
Angular +/- 1/2 Deg.
Fractional +/- 1/16
Dec. XXX= +/- .010
Dec. .XX= +/- .030

TITLE:
WIDE TAU-II TL-3, 96" BACKSTOP

MODEL	DRAWING NUMBER	REV
	B033010-FL	B



NOTES:

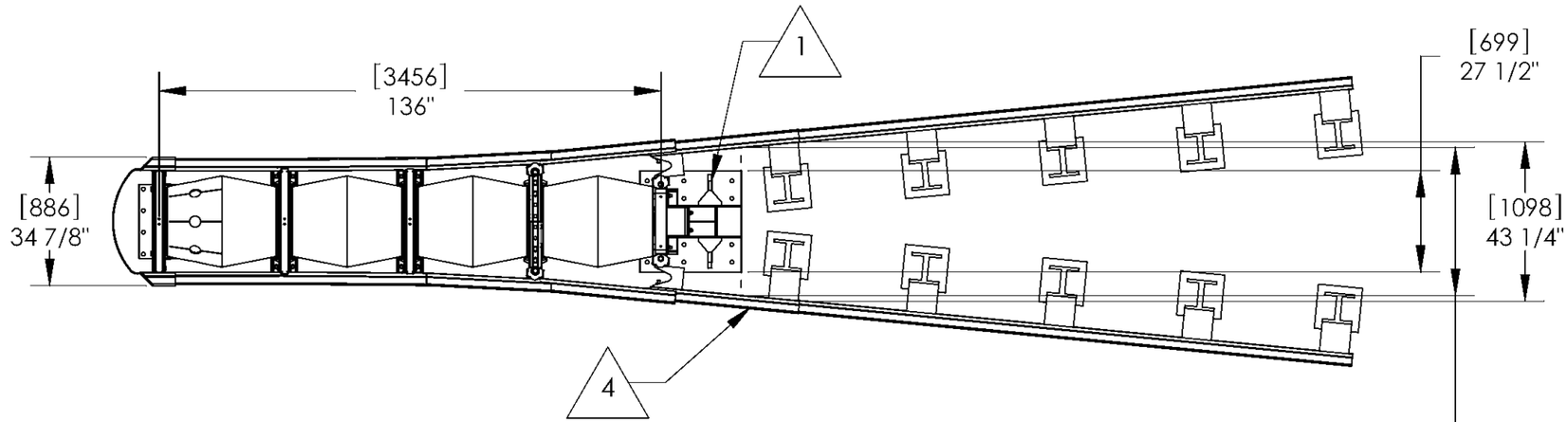
1.) TORQUE CABLES TO 500 FT-LBF (678 N-m)
2.) TORQUE SLIDER BOLTS TO 20 FT-LBF [27 N-m]
3.) TORQUE NOSE PIECE ATTACHMENT HARDWARE TO 200 FT-LBF [270 N-m]
4.) TRANSITIONS MUST NOT CREATE AN EDGE CAPABLE OF SNAGGING A VEHICLE AND SHOULD REMAIN PARALLEL TO THE END PANELS AT THE CONNECTIONS. FOR BI-DIRECTIONAL TRAFFIC A STANDARD AASHTO THRIE BEAM TRANSITION SHOULD BE USED TO PREVENT SNAGGING OF THE END PANELS. THE LATERAL STIFFNESS OF THE TRANSITION SHOULD BE EQUAL TO OR STRONGER THAN THAT OF THE TAU II SYSTEM.
5.) TRANSITION TO W-BEAM PANELS CAN BE MADE USING A W-THRIE BEAM TRANSITION SECTION AFTER THE FIRST FULL PIECE OF THRIE BEAM SHOWN BELOW.

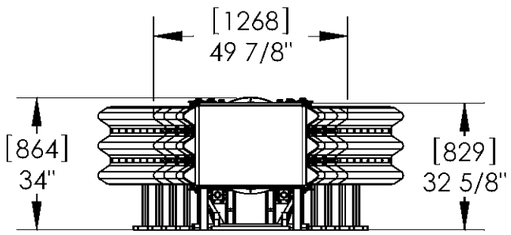
SPECIFICATIONS:

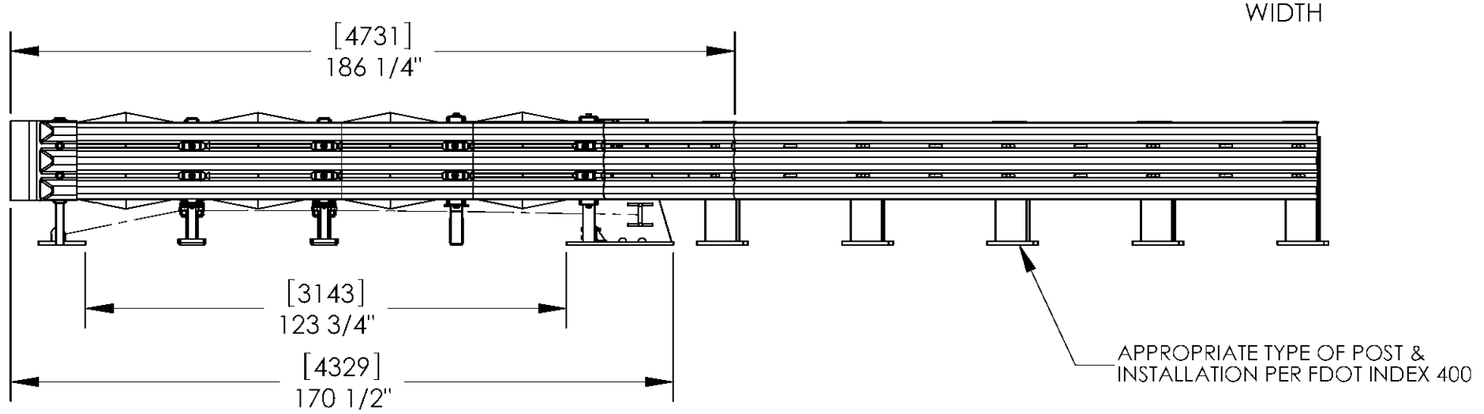
1.) ALL STEEL COMPONENTS ARE ASTM A36 OR EQUIVALENT UNLESS OTHERWISE STATED.
2.) ALL STEEL COMPONENTS ARE HOT DIPPED GALVANIZED PER ASTM A 123 UNLESS OTHERWISE STATED.
3.) ALL FASTENERS ARE GRADE 2 OR EQUIVALENT AND GALVANIZED UNLESS OTHERWISE STATED.
4.) STANDARD TORQUE SPECIFICATION FOR 20MM 2.5 FASTENERS WHEN NOT SPECIFIED IS 120 FT-LBF [160 N-M].
5.) ALL FASTENERS WILL INCORPORATE A POSITIVE THREAD LOCKING DEVICE.

appr: DGB **BILL OF MATERIALS** — WIDE TAU II, 70 KPH (TL-2), 36" COMPACT BACKSTOP — B033142

ITEM	QTY / DWG	PART DESCRIPTION	SPECIFICATION/CONFIGURATION	PART #
1	1	FRONT SUPPORT	TAU-II COMPONENT	B010528
2	2	MIDDLE SUPPORT	TAU-II COMPONENT	B010530
3	1	XL BULKHEAD	MIDDLE, 36", CABLE POSITION #1	B034004
4	1	COMPACT END SUPPORT ASSEMBLY	NA	B010537
5	2	ADAPTER	NA	B031201
6	1	FRONT CABLE ANCHOR	NA	B010248
7	1	NOSE / DELINIATION MARKER	NA	B010711
8	8	SLIDING PANEL	NA	B010202
9	2	END PANEL	NA	B010659
10	16	SLIDING BOLT	NA	B010842
11	1	ENERGY ABSORBING CARTRIDGE, TYPE A	NA	B010802
12	3	ENERGY ABSORBING CARTRIDGE, TYPE B	NA	B010722
13	4	EXTRA THICK FLAT WASHER	SS - 1 1/2"OD X 13/16"ID X 7/32"	2001009
14	8	HEX BOLT	MECH GALV-20MM-2.5 X 50MM	2001449
15	8	WASHER	MECH GALV-20MM	2001450
16	8	HEX NUT	MECH GALV-20MM-2.5	2001451
17	4	FENDER WASHER	SS-13/16"ID X 1 7/8"OD	2001009
18	2	CABLE (4 BAY)	NA	B010917
19	6	CABLE GUIDE	NA	B010721
20	2	FRONT SUPPORT LEG	NA	B010712
21	1	ANCHORING PACKAGE	NA	B010713







THIS DRAWING ILLUSTRATES THE GENERAL LAYOUT FOR A TAU-II 36" WIDE, 45 MPH RATED UNIT (MODEL # 36T070CBC)

REV.	CHANGES	DATE	BY	REQ'D	NEXT ASSY.	ITEM
A	ADDED NOTES	04/28/09	JR			
0	NEW DRAWING	10/16/08	JR			

SCALE: 1:40

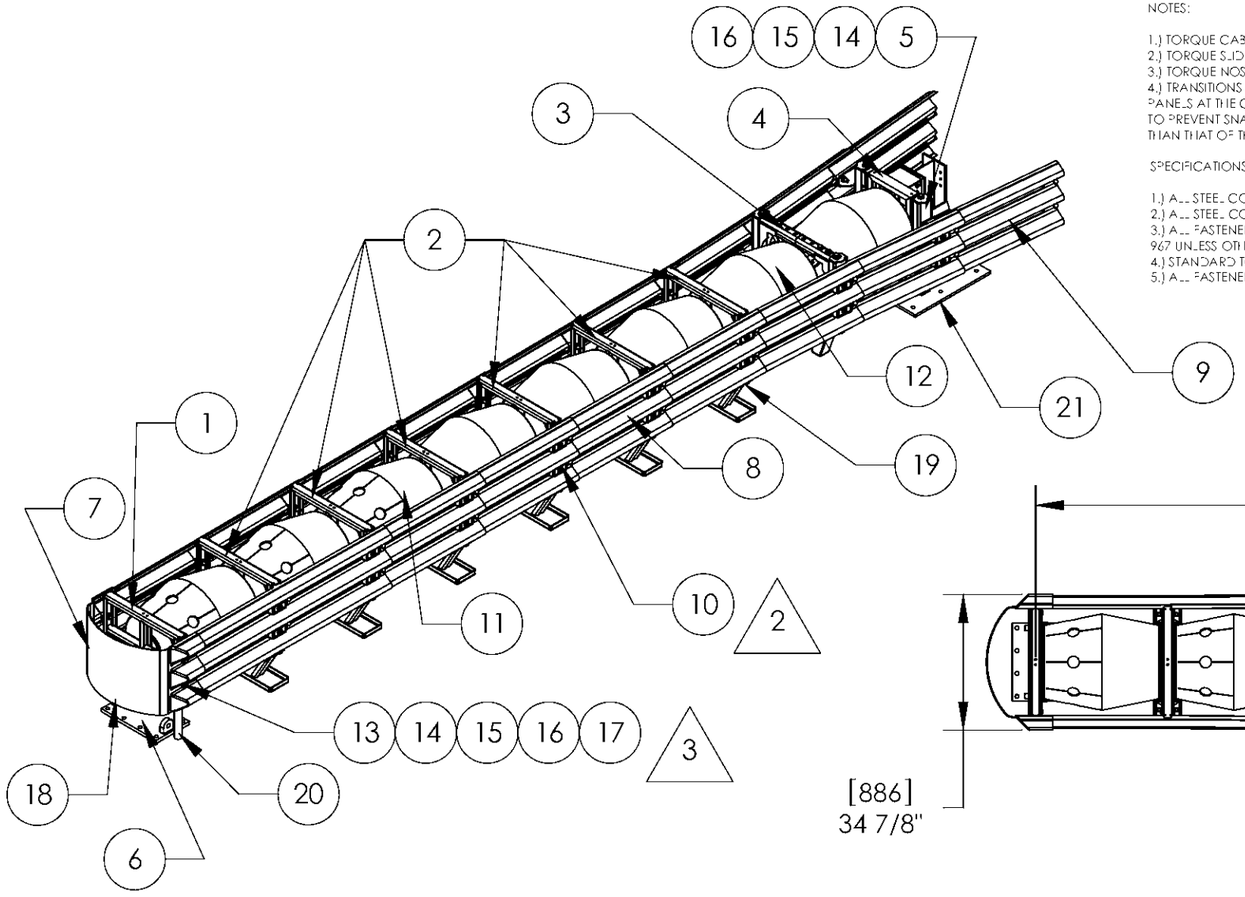
	DATE	INIT.
DRAWN BY	01/12/04	RGC
APPR'D BY		JSM

Standard Tolerance: Angular ± 1/2° ; Fractional ± 1/16" ; Dec .XXX= ± .010 ; Dec .XX= ± .030

TITLE: WIDE TAU-II TL-2 TRANSITION TO CONVERGING GUARDRAIL

BARRIER SYSTEMS
180 RIVER RD, RIO VISTA, CA 94571
TEL: 707-374-6800 FAX: 707-374-6801

SHEET	DRAWING NUMBER	REV
1 OF 1	B033142-FL	A



NOTES:

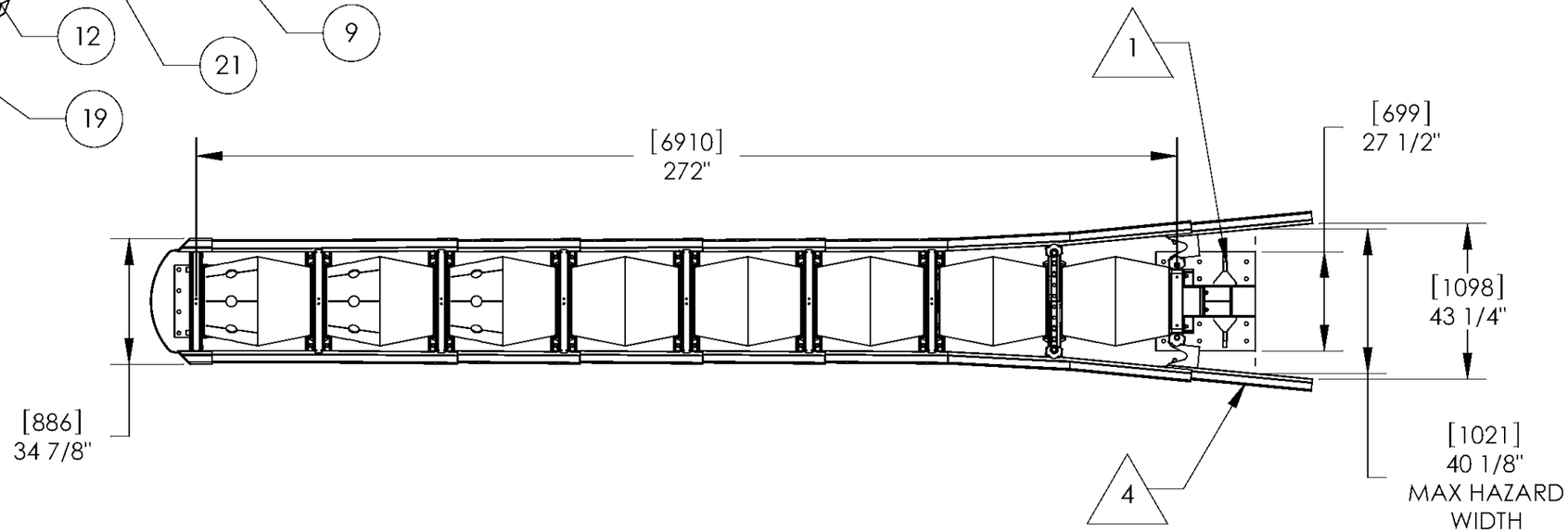
1.) TORQUE CABLES TO 500 FT-LBF (678 N-m)
2.) TORQUE SLIDER BOLTS TO 20 FT-LBF [27 N-m]
3.) TORQUE NOSE PIECE ATTACHMENT HARDWARE TO 200 FT-LBF [270 N-m]
4.) TRANSITIONS MUST NOT CREATE AN EDGE CAPABLE OF SNAGGING A VEHICLE AND SHOULD REMAIN PARALLEL TO THE END PANELS AT THE CONNECTIONS. FOR BI-DIRECTIONAL TRAFFIC A STANDARD AASHTO THRIE BEAM TRANSITION SHOULD BE USED TO PREVENT SNAGGING OF THE END PANELS. THE LATERAL STIFFNESS OF THE TRANSITION SHOULD BE EQUAL TO OR STRONGER THAN THAT OF THE TAU II SYSTEM.

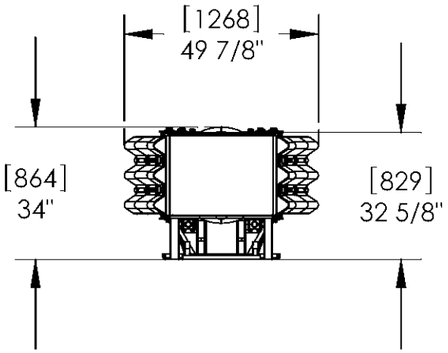
SPECIFICATIONS:

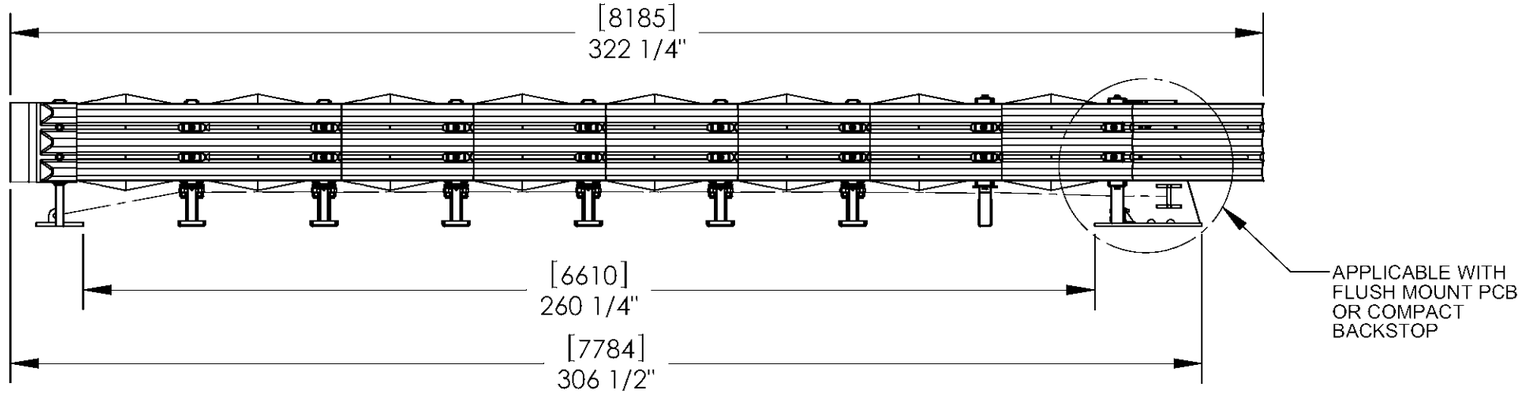
1.) ALL STEEL COMPONENTS ARE ASTM A36 OR EQUIVALENT UNLESS OTHERWISE STATED.
2.) ALL STEEL COMPONENTS ARE HOT DIPPED GALVANIZED IN ACCORDANCE WITH FLORIDA DOT SPECIFICATION 967.
3.) ALL FASTENERS ARE GRADE 2 OR EQUIVALENT AND GALVANIZED IN ACCORDANCE WITH FLORIDA DOT SPECIFICATION 967 UNLESS OTHERWISE STATED.
4.) STANDARD TORQUE SPECIFICATION FOR 20MM 2.5 FASTENERS WHEN NOT SPECIFIED IS 120 FT-LBF [160 N-M].
5.) ALL FASTENERS WILL INCORPORATE A POSITIVE THREAD LOCKING DEVICE.

appr: DGB **BILL OF MATERIALS** — WIDE TAU II, 100 KPH (TL-3), 36" COMPACT BACKSTOP — B033146

ITEM	QTY / DWG	PART DESCRIPTION	SPECIFICATION/CONFIGURATION	PART #
1	1	FRONT SUPPORT	TAU-II COMPONENT	B010528
2	6	MIDDLE SUPPORT	TAU-II COMPONENT	B010530
3	1	XL BULKHEAD	MIDDLE, 36", CABLE POSITION #1	B034004
4	1	COMPACT END SUPPORT ASSEMBLY	NA	B010537
5	2	ADAPTER	NA	B031201
6	1	FRONT CABLE ANCHOR	NA	B010248
7	1	NOSE / DELINIATION MARKER	NA	B010711
8	16	SLIDING PANEL	NA	B010202
9	2	END PANEL	NA	B010659
10	32	SLIDING BOLT	NA	B010842
11	3	ENERGY ABSORBING CARTRIDGE, TYPE A	NA	B010802
12	5	ENERGY ABSORBING CARTRIDGE, TYPE B	NA	B010722
13	4	EXTRA THICK FLAT WASHER	SS - 1 1/2"OD X 13/16"ID X 7/32"	2001009
14	8	HEX BOLT	MECH GALV-20MM-2.5 X 50MM	2001449
15	8	WASHER	MECH GALV-20MM	2001450
16	8	HEX NUT	MECH GALV-20MM-2.5	2001451
17	4	FENDER WASHER	SS-13/16"ID X 1 7/8"OD	2001009
18	2	CABLE [8 BAY]	NA	B010916
19	14	CABLE GUIDE	NA	B010721
20	2	FRONT SUPPORT LEG	NA	B010712
21	1	ANCHORING PACKAGE	NA	B010713







THIS DRAWING ILLUSTRATES THE GENERAL LAYOUT FOR A PARALLEL 36" WIDE 8-BAY TAU-II, 60 MPH RATED UNIT (MODEL # 36T100CBC)

REV.	CHANGES	DATE	BY	REQ'D	NEXT ASSY.	ITEM
B	CHANGED NOTE	04/27/09	JR			
A	ADDED NOTES	10/16/08	JR			

SCALE: 1:40

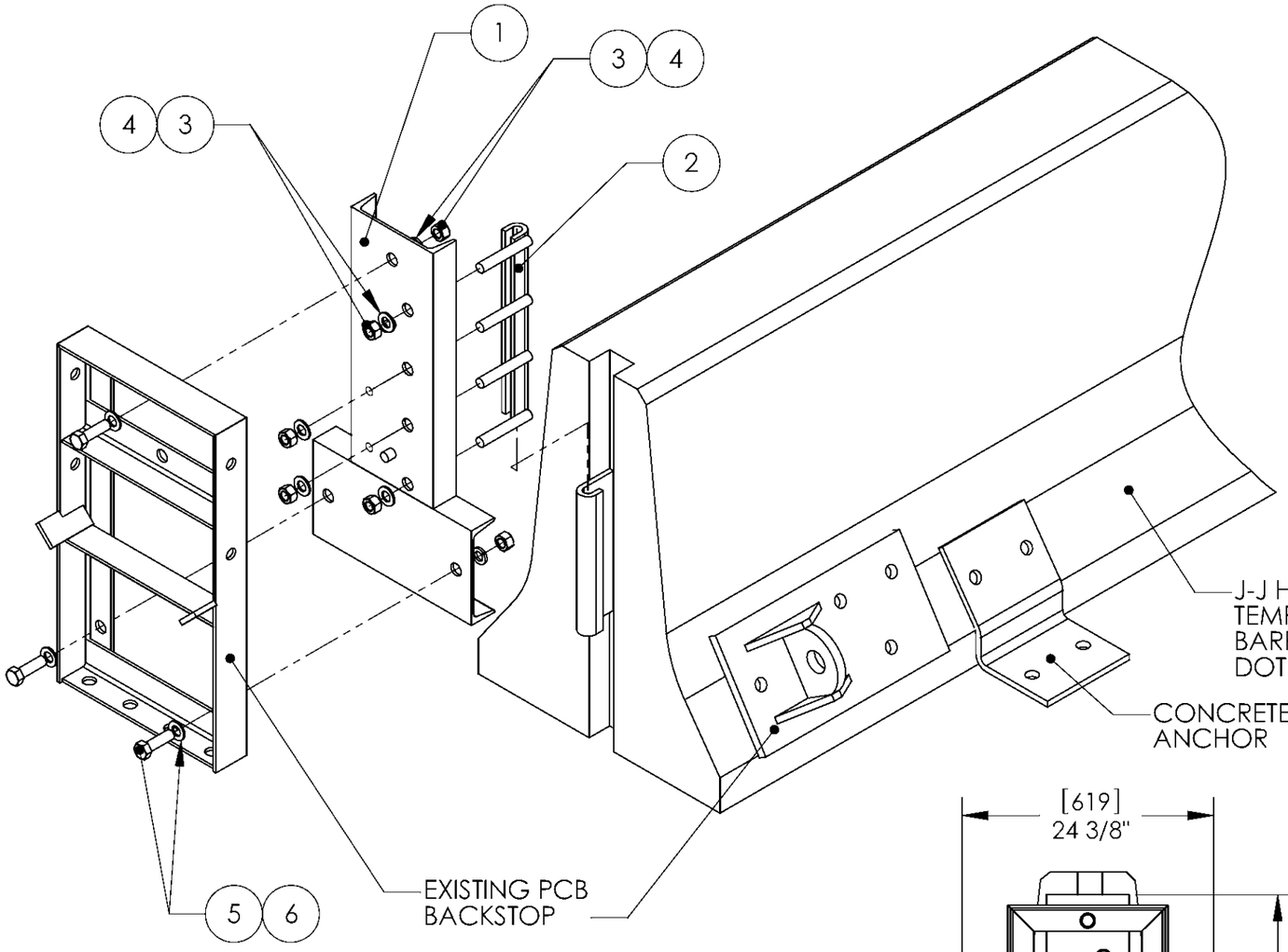
	DATE	INIT.
DRAWN BY	01/12/04	RGC
		JSM

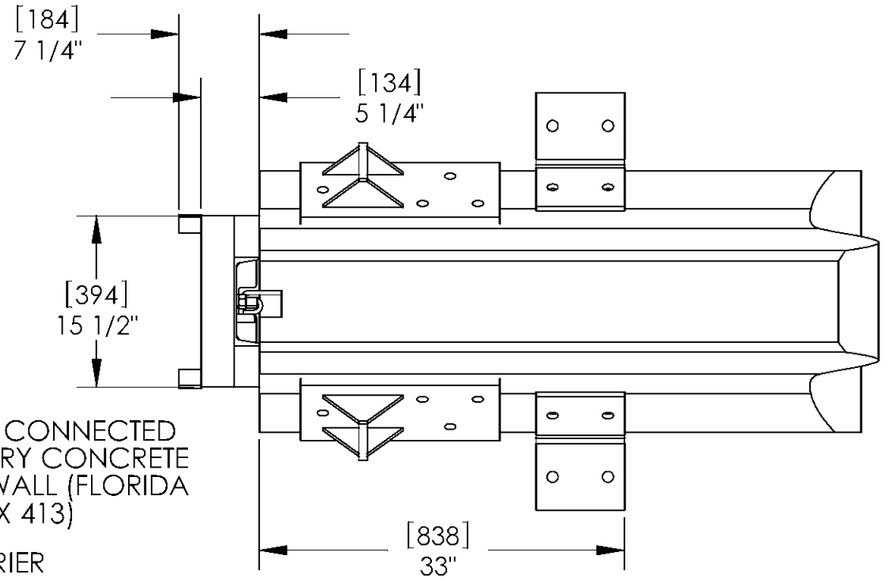
Standard Tolerance
Angular +/- 1/2 Deg.
Fractional +/- 1/16
Dec. XXX= +/- .010
Dec. .XX= +/- .030

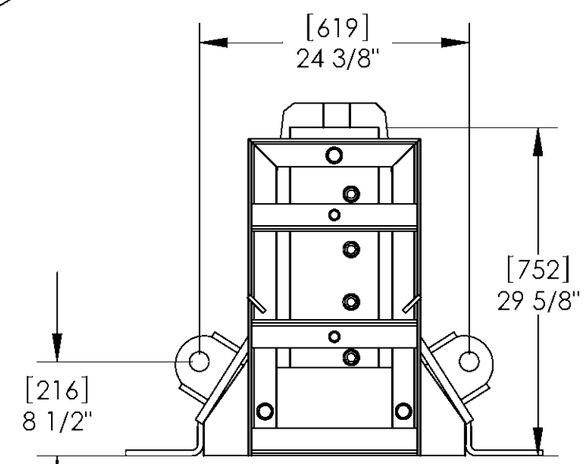
TITLE: UNIVERSAL TAU-II TL-3, 36" COMPACT BACKSTOP

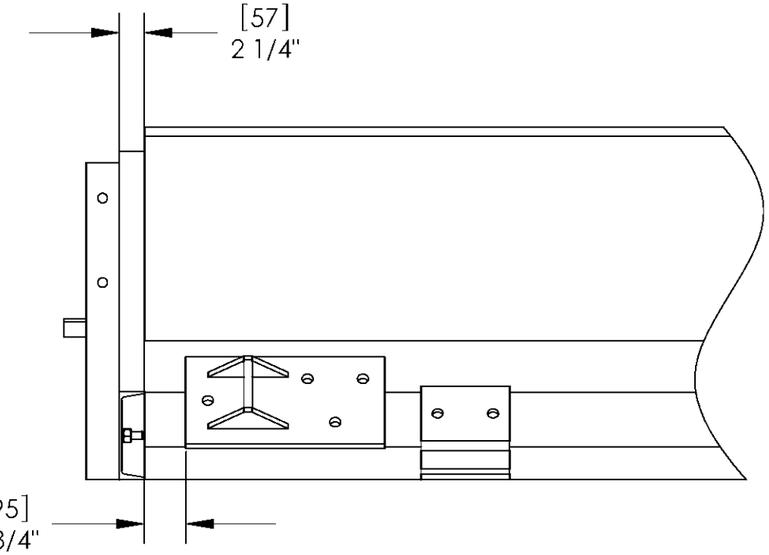
MODEL	DRAWING NUMBER	REV
	B033146-FL	B

ITEM	QTY / DWG	PART DESCRIPTION	SPECIFICATION	DWG #
1	1	ADAPTER WELDMENT	NA	B040222
2	1	J-HOOK INTERFACE	NA	B040225
3	7	HEX NUT	20MM-2.5, GR2, GALV	2001451
4	7	LOCK WASHER	20MM, GALV	2001501
5	3	FLAT RD WASHER	20MM, GALV	2001160
6	3	HEX BOLT	20MM X 50MM, GR2, GALV	2001449









REV.	CHANGES	DATE	BY	REQ'D	NEXT ASSY.	ITEM
A	SEE ECN 00598	3/15/04	GAD	1	AP040228	1

SCALE: 1:14

	DATE	INIT.
DRAWN BY	2/25/04	GAD
		JSM

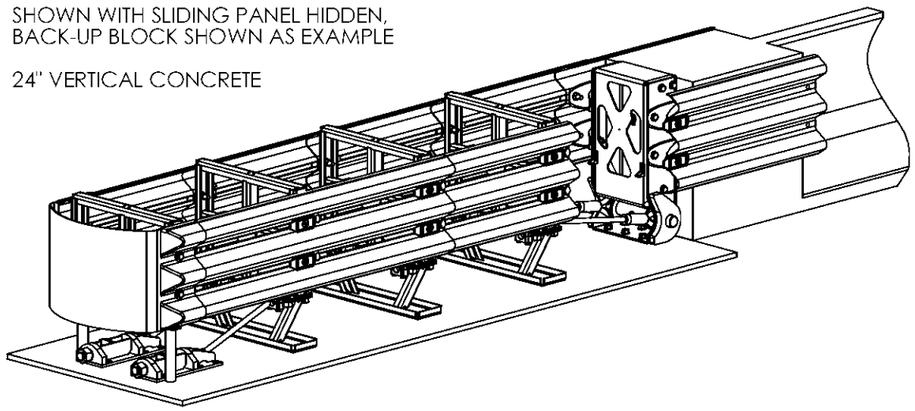
Standard Tolerance
Angular +/- 1/2 Deg.
Fractional +/- 1/16
Dec. XXX= +/- .010
Dec. .XX= +/- .030

TITLE: PCB ADAPTER TO J-HOOK TEMPORARY CONCRETE BARRIER ASSEMBLY

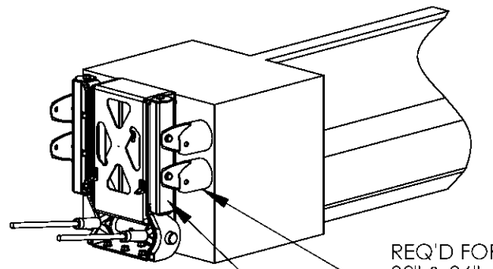
MODEL	DRAWING NUMBER	REV
	B040221-FL	A

SHOWN WITH SLIDING PANEL HIDDEN,
BACK-UP BLOCK SHOWN AS EXAMPLE

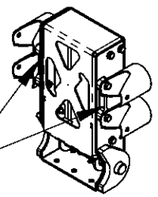
24" VERTICAL CONCRETE

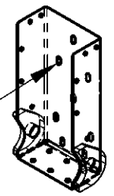


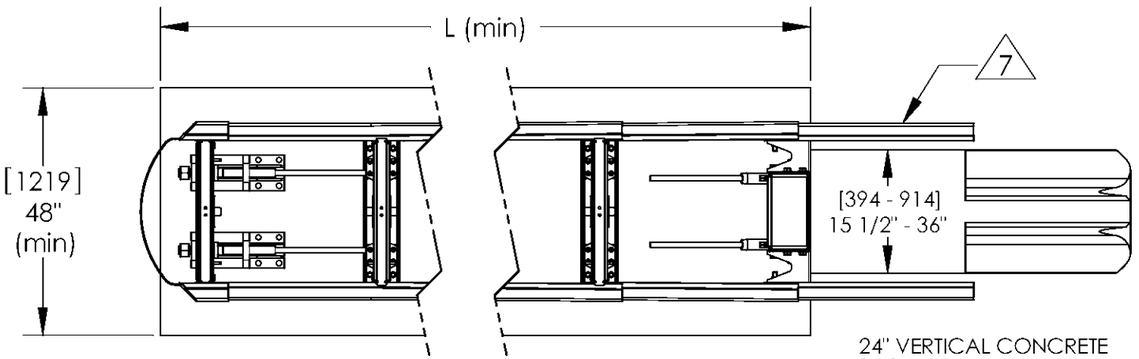
36" VERTICAL CONCRETE

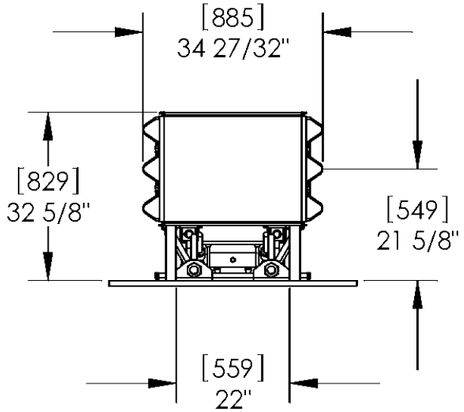


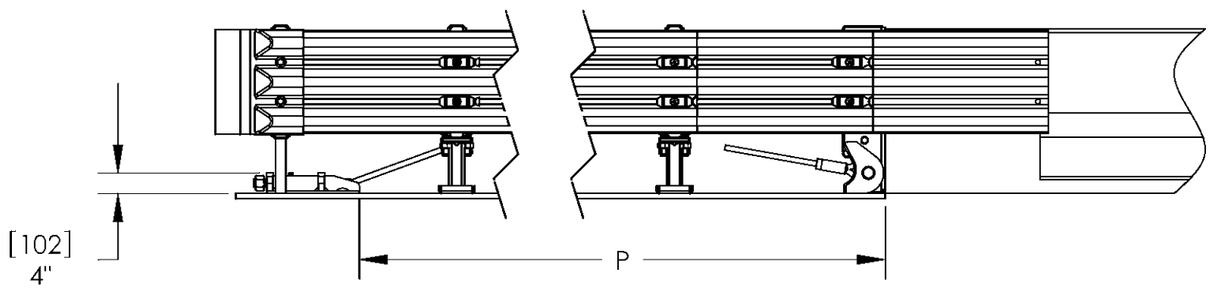
NOTES:
1.) FLUSH MOUNT BACKSTOP SYSTEMS ARE INTENDED FOR APPLICATIONS WHERE THE HAZARD WIDTH EXCEEDS THE LIMITATIONS OF THE PCB BACKSTOP. FLUSH MOUNT SYSTEMS ARE ALSO APPLICABLE IN LOCATIONS WITH LIMITED FOUNDATION SIZE.
2.) THE FLUSH MOUNT BACKSTOP MAY BE ATTACHED TO REINFORCED SAFETY SHAPE OR VERTICAL CONCRETE STRUCTURES UP TO 36" [914] WIDE. STRUCTURES (OR BLOCKS), SHOULDER BARRIER WALLS OR ENDS OF CONVERGING BARRIER WALLS OVER 24"[610] WIDE REQUIRE 36" ADAPTER B031201.
3.) THE FLUSH MOUNT BACKSTOP IS ATTACHED TO THE FOUNDATION WITH SIX (6) ANCHORS AND TO THE CONCRETE WALLS, BLOCK, OR STRUCTURE WITH A MINUMUM OF SIX (6) ANCHORS. ANCHORS INTO THE FOUNDATION PAD TO BE IN ACCORDANCE WITH BSI SPECIFICATIONS A040113-FL. USE SAME TECHNIQUES TO ANCHOR FLUSH MOUNT BACKSTOP TO CONCRETE BACKSTOP AS SHOWN FOR PCC PAD IN A040113-FL. THE CENTERLINE OF TAU-II CAN BE OFFSET FROM CENTERLINE OF BARRIER IN ORDER TO FACILITATE THE NECESSARY ANCHORAGE.
4.) VERTICAL SLOTS ON THE BACKSTOP ALLOW REMOVAL/REPLACEMENT OF THE BACKSTOP. ANCHORS MUST BE PLACED AT THE TOP OF SAID SLOTS TO BE EFFECTIVE.
5.) FLUSH MOUNT BACKSTOP SYSTEMS USE THE SAME CABLE USED IN ALL PARALLEL SYSTEMS. THE CABLE IS INSTALLED WITH THE THREADED TENSIONING END FORWARD. THE LOOPED END IS PINNED IN PLACE AT THE BACKSTOP.
6.) THE FRONT CABLE ANCHOR USES AN INSERTED KEY TO KEEP THE THREADED STUD FROM ROTATING DURING TENSIONING.
7. IN A BI-DIRECTIONAL APPLICATION, THE END PANEL CAN BE SUBSTITUTED WITH AN END SHOE. THE CENTERLINE OF TAU-II CAN BE OFFSET FROM THE CENTERLINE OF BARRIER IN ORDER FOR THE END SHOE TO LAY FLAT ON THE VERTICAL CONCRETE BLOCK.











FOUNDATION PAD LENGTH DIMENSION "L" (MINIMUM)			
BAY No.	CAPACITY (mph)	L (ft-in)	L (mm)
2	30	6' - 11 1/2"	2121
3	35	9' - 9 1/2"	2985
4	45	12' - 7 1/2"	3848
5	50	15' - 5 1/2"	4712
7	55	21' - 2"	6452
8	60	24' - 0"	7315
9	65	26' - 10"	8179
10	70	29' - 8 1/2"	9055

FRONT ANCHOR PLACEMENT DIMENSION "P"			
BAY No.	CAPACITY (mph)	P (ft-in)	P (mm)
2	30	4' - 11 1/2"	1511
3	35	7' - 9 1/2"	2375
4	45	10' - 7 1/2"	3239
5	50	13' - 5 1/2"	4102
7	55	19' - 2"	5842
8	60	22' - 0"	6706
9	65	24' - 10"	7569
10	70	27' - 8 1/2"	8446

REV.	CHANGES	DATE	BY	REQ'D	NEXT ASSY.	ITEM
B	ADDED NOTES & ISOMETRIC VIEW OF FM BACKSTOP	04/28/09	JR			
A	ADDED NOTES	10/16/08	JR	1	B040219	1

SCALE: 1:30

	DATE	INIT.
DRAWN BY	7/15/04	GAD

Standard Tolerance
Angular +/- 1/2 Deg.
Fractional +/- 1/16
Dec. XXX= +/- .010
Dec. .XX= +/- .030

TITLE: APPLICATION, FLUSH MOUNT BACKSTOP

MODEL	DRAWING NUMBER	REV
	B040239-FL	B

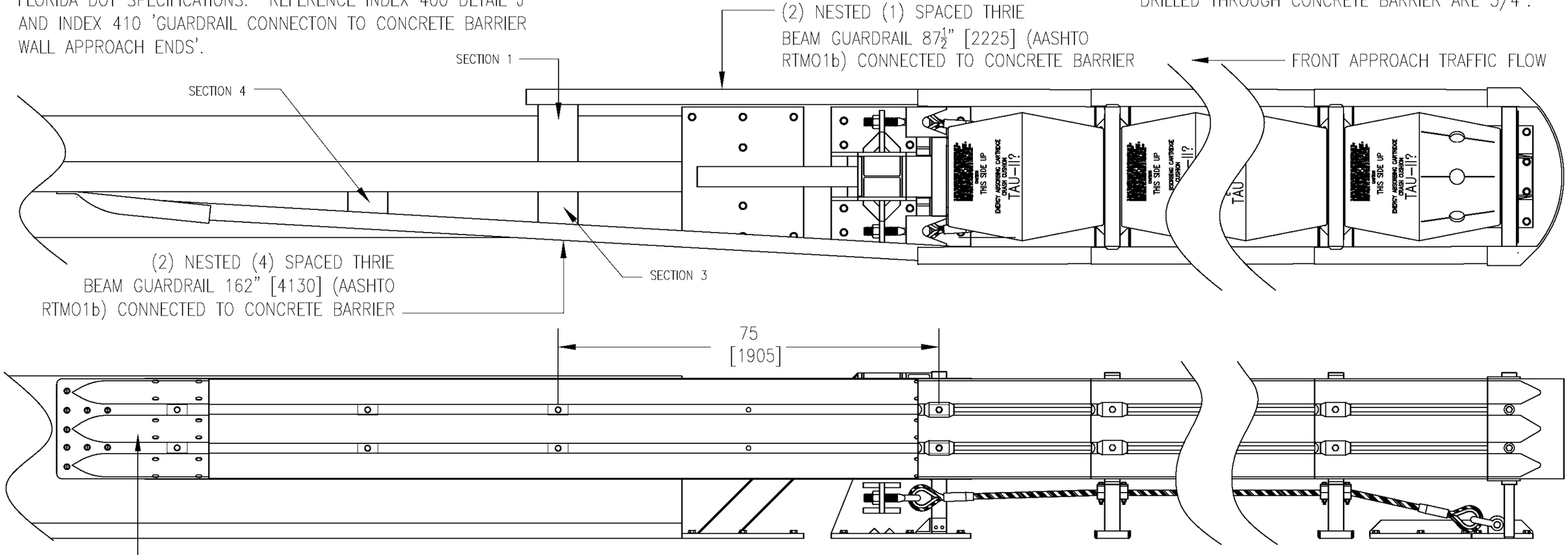
NOTES:

1.) CONCRETE MEDIAN BARRIER TO BE IN ACCORDANCE WITH FLORIDA DOT INDEX 410 OR 415. IF THE MEDIAN BARRIER IS TEMPORARY IT MUST BE ANCHORED IN ACCORDANCE WITH BSI SPECIFICATION A040206–FL, A040113–FL, B020413–FL, AND B020411–FL.

2.) USE HARDWARE AND BLOCKOUTS IN ACCORDANCE WITH FLORIDA DOT SPECIFICATIONS. REFERENCE INDEX 400 DETAIL J AND INDEX 410 'GUARDRAIL CONNECTON TO CONCRETE BARRIER WALL APPROACH ENDS'.

3.) STANDARD TIMBER OR PLASTIC OFFSET BLOCKS FIELD TRIMMED FOR USE AT SECTIONS 1, 3 AND 4. REFERENCE BSI DRAWING B031222–FL FOR BLOCKOUT DETAILS. BLOCKOUTS SHALL MEET REQUIRMENTS OF FLORIDA DOT INDEX 400, 410, AND FLORIDA DOT SPECIFICATIONS.

4.) USE 5/8" DIA BUTTON HEAD BOLT WITH BEAM WASHER AND NUT WITH WASHER AND BEAM WASHER ON ALL SECTIONS. BOLT LENGTH DETERMINED BY SECTION WIDTH: 1&3–24", AND 4–14". LENGTHS MAY VARY WITH DIFFERENT BARRIER SHAPES. A 12"X12" BACK–UP PLATE WITH 3/4" HOLES IS REQUIRED ON SECTION 4. HOLES DRILLED THROUGH CONCRETE BARRIER ARE 3/4".



5.) THRIE BEAM GUARDRAIL AND TERMINAL CONNECTOR TO BE GALVANIZED IN ACCORDANCE WITH FLORIDA DOT SPECIFICATION 967.

6.) WHERE REAMING IS NECESSARY TO FIT NESTED BEAMS AND TERMINAL CONNECTORS THE REAMED SURFACES SHALL BE METALIZED IN ACCORDANCE WITH FLORIDA DOT INDEX 400.

7.) ALL HARDWARE AND FASTENERS TO BE GALVANIZED IN ACCORDANCE WITH FLORIDA DOT SPECIFICATION 967.

8.) TRANSITION SHOWN IS FOR BI–DIRECTIONAL TRAFFIC. FOR UNI–DIRECTIONAL TRAFFIC CONDITIONS TERMINATE THE TRANSITION PANELS AT THE FIRST BLOCKOUT AS SHOWN ON FRONT APPROACH TRAFFIC SIDE.

9.) FOR ROADSIDE CONDITIONS WHEN THERE IS NO TRAFFIC FLOW ON ONE SIDE, NO TRANSITION IS NEEDED ON THAT SIDE.

REV.	CHANGES	DATE	BY	REQ'D	NEXT ASSY.	ITEM
A	FLORIDA DOT	3/15/04	GAD			

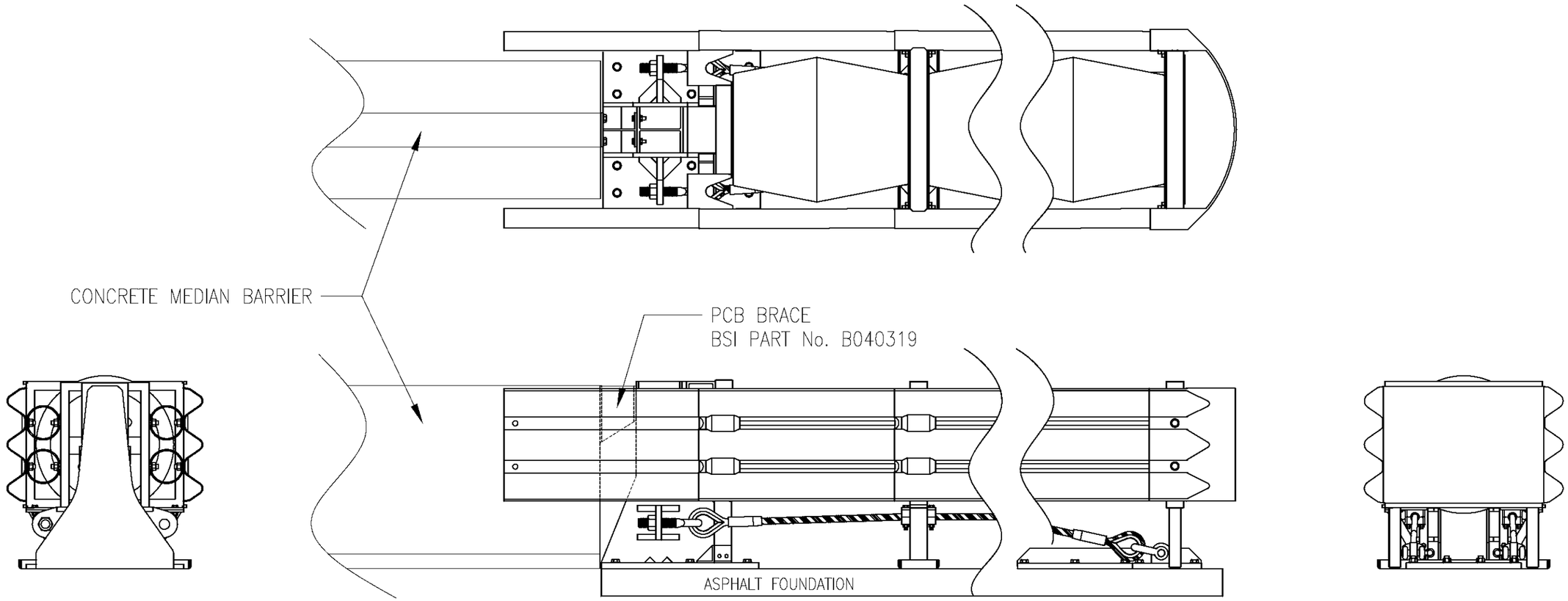
SCALE: 1=20

	DATE	INIT.
DRAWN BY	03/1/04	GAD
APPR'D BY	03/1/04	OSD

Standard Tolerance
Angular ± 1/2°
Fractional ± 1/16
Dec .XXX= ± .010
Dec .XX= ± .030

TITLE : TRANSITION, TAU–II WITH COMPACT BACKSTOP, ASPHALT FOUNDATION

MODEL	DRAWING NUMBER	REV.
	B040301–FL	A



NOTES:

1.) CONCRETE MEDIAN BARRIER TO BE IN ACCORDANCE WITH FLORIDA DOT INDEX 410 OR 415. IF THE MEDIAN BARRIER IS TEMPORARY IT MUST BE ANCHORED IN ACCORDANCE WITH BSI SPECIFICATION A040206–FL, B020413–FL, A040113–FL, AND B020411–FL.

2.) ALL HARDWARE AND FASTENERS TO BE GALVANIZED IN ACCORDANCE WITH FLORIDA DOT SPECIFICATION 967.

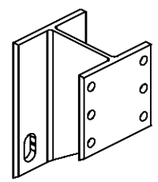
3.) USE PCB BRACE (BSI PART No. B040319) TO ATTACH COMPACT BACKSTOP TO CONCRETE MEDIAN BARRIER.

4.) PCB BRACE ATTACHES TO THE CONCRETE MEDIAN BARRIER WITH (2) 3/4" DIA THREADED ANCHORS WITH 6" EMBEDMENT. TORQUE ANCHORS TO 120 FT–LBF [160 N–m].

5.) TAU–II TO BE INSTALLED PER MANUFACTURERS SPECIFICATIONS.

6.) APPLICATION SHOWN IS FOR UNI–DIRECTIONAL TRAFFIC. IF THERE IS TO BE BI–DIRECTIONAL TRAFFIC A TRANSITION NEEDS TO BE PROVIDED FOR THE REAR APPROACHING TRAFFIC. REFERENCE DRAWING B010725–FL OR B050606–FL FOR TRANSITION DETAILS.

7.) REFERENCE DRAWING A040110–FL FOR ASPHALT PAD LAYOUT.



PCB BRACE B040319
(ASPHALT FOUNDATION ONLY)

REV.	CHANGES	DATE	BY	REQ'D	NEXT ASSY.	ITEM
D	ADDED NOTE 7	05/13/09	JR			
C	ADDED FOUNDATION & NOTES	10/16/08	JR			
B	FLORIDA DOT	3/29/04	GAD			
A	FLORIDA DOT	3/24/04	GAD	NA	NA	NA

SCALE: 1=20

	DATE	INIT.
DRAWN BY	03/16/04	GAD
APPR'D BY	03/16/04	JSM

Standard Tolerance
Angular ± 1/2°
Fractional ± 1/16
Dec .XXX= ± .010
Dec .XX= ± .030

TITLE: TAU–II WITH COMPACT BACKSTOP, ASPHALT FOUNDATION, PCB BRACE

MODEL	DRAWING NUMBER	REV.
	B040318–FL	D

NOTES UNLESS OTHERWISE SPECIFIED:

1. THE DETAILED METHOD FOR EXTENDING AN EXISTING CONCRETE PAD FOR USE WITH A UNIVERSAL TAU-II SYSTEM IS RECOMMENDED TO ENSURE ADEQUATE FOUNDATION INTEGRITY FOR PROPER IMPACT PERFORMANCE. VARIATIONS MAY BE REVIEWED AND DETERMINATIONS MADE AS TO EQUIVALENCE BY PROJECT ENGINEER.

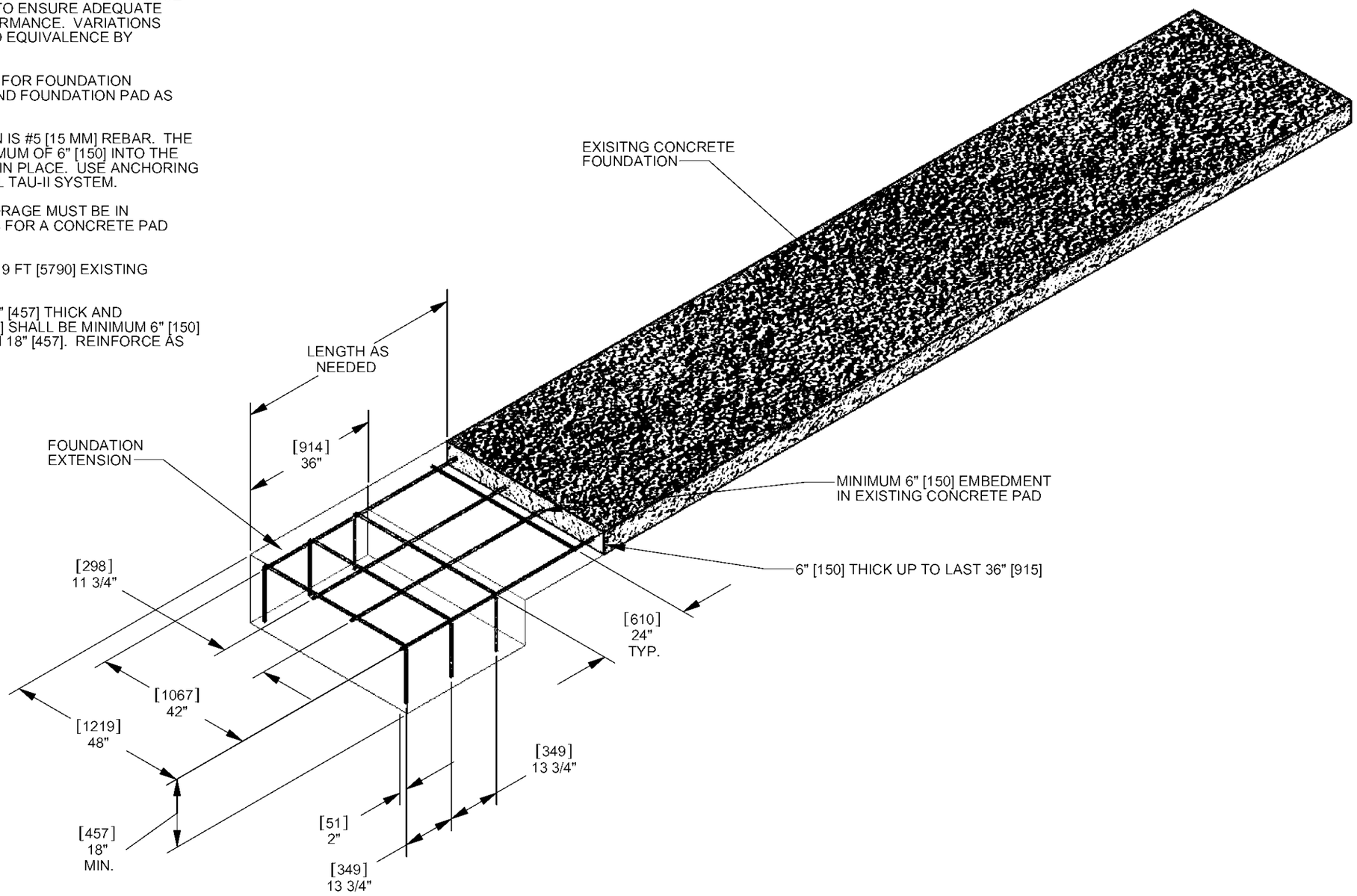
2. REFERENCE UNIVERSAL TAU-II INSTALLATION MANUAL FOR FOUNDATION DIMENSIONS REQUIRED PER SPECIFIC SYSTEM. EXTEND FOUNDATION PAD AS SHOWN FOR THE LENGTH REQUIRED.

3. THE REINFORCEMENT IN THE FOUNDATION EXTENSION IS #5 [15 MM] REBAR. THE LONGITUDINAL REINFORCEMENT IS EMBEDDED A MINIMUM OF 6" [150] INTO THE EDGE OF THE EXISTING CONCRETE PAD AND BONDED IN PLACE. USE ANCHORING COMPOUND APPROVED FOR USE WITH THE UNIVERSAL TAU-II SYSTEM.

4. FOUNDATION MATERIAL, SPECIFICATIONS, AND ANCHORAGE MUST BE IN ACCORDANCE WITH BSI FOUNDATION SPECIFICATIONS FOR A CONCRETE PAD AND PORTLAND CEMENT CONCRETE, A040113.

5. DETAIL BELOW SHOWS A 5 FT [1525] EXTENSION ON A 19 FT [5790] EXISTING CONCRETE PAD.

6. EXTENSIONS UP TO 3 FT [915] LONG TO BE MINIMUM 18" [457] THICK AND REINFORCED AS SHOWN. EXTENSIONS OVER 3 FT [915] SHALL BE MINIMUM 6" [150] THICK UP TO THE LAST 3 FT [915] WHERE IT IS MINIMUM 18" [457]. REINFORCE AS INDICATED.



REV.	CHANGES	DATE	BY	REQ'D	NEXT ASSY.	ITEM
0	NEW DRAWING	10/15/08	JR	1	A040113	1

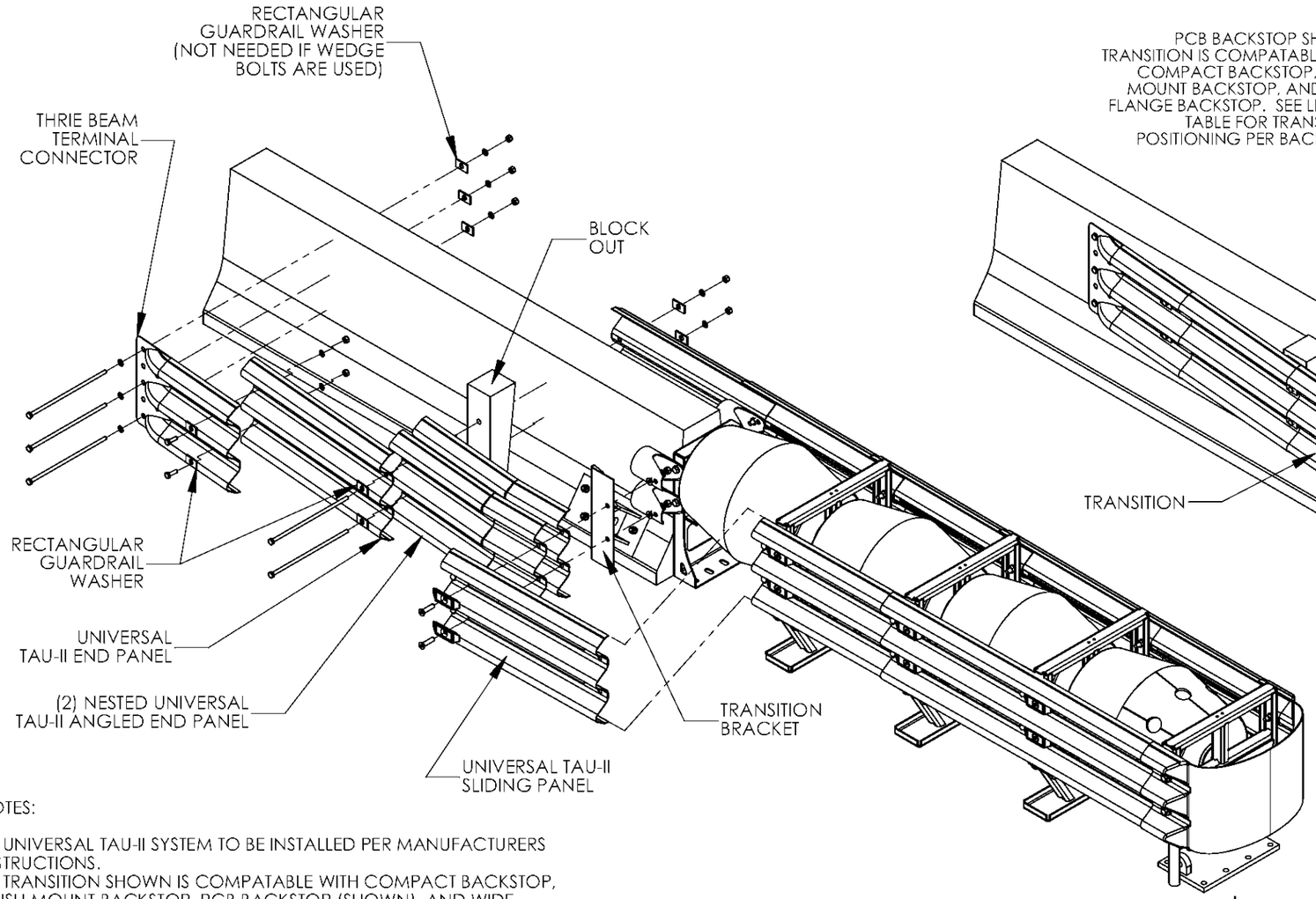
SCALE: 1:25

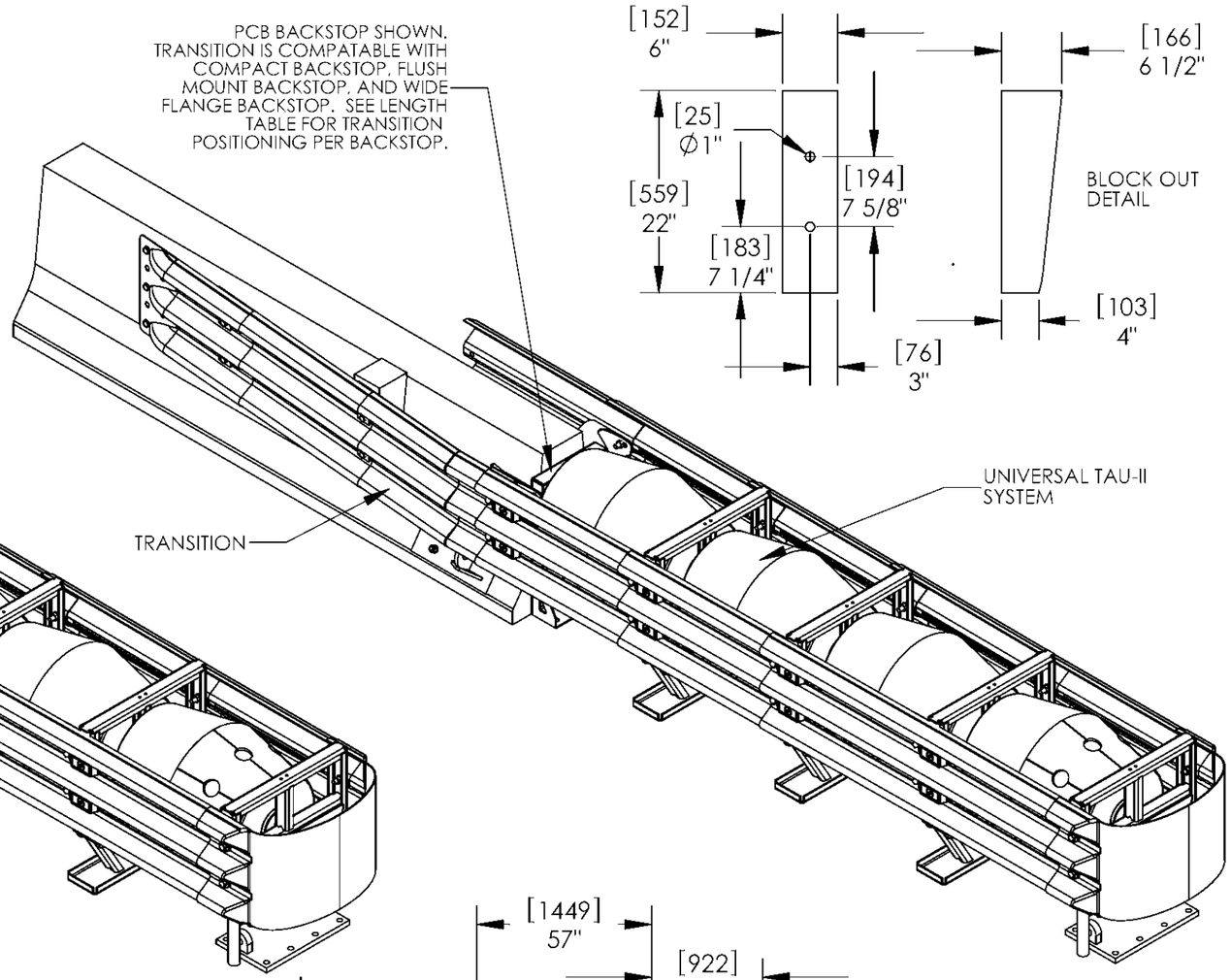
	DATE	INIT.
DRAWN BY	11/16/04	GAD
		OSD

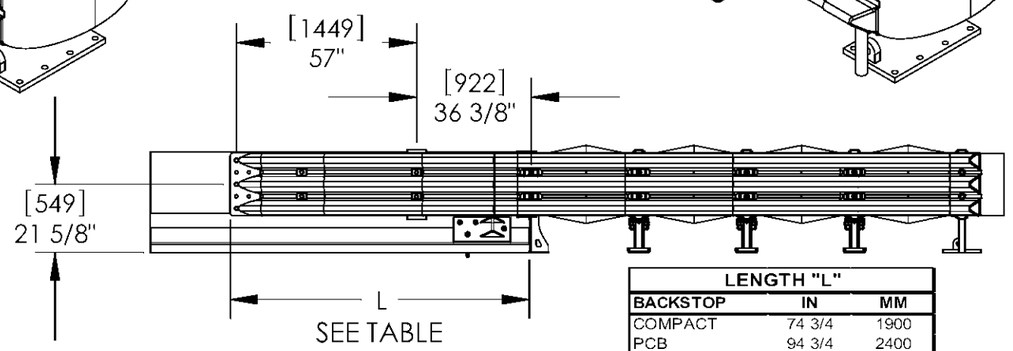
Standard Tolerance
Angular +/- 1/2 Deg.
Fractional +/- 1/16
Dec. XXX= +/- .010
Dec. .XX= +/- .030

TITLE:
UNIVERSAL TAU-II FOUNDATION EXTENSION - CONCRETE

MODEL	DRAWING NUMBER	REV
	B041111-FL	0







LENGTH "L"		
BACKSTOP	IN	MM
COMPACT	74 3/4	1900
PCB	94 3/4	2400
FLUSH MOUNT	89 3/8	2270
WIDE FLANGE	128 1/2	3260

NOTES:

1.) UNIVERSAL TAU-II SYSTEM TO BE INSTALLED PER MANUFACTURERS INSTRUCTIONS.
2.) TRANSITION SHOWN IS COMPATABLE WITH COMPACT BACKSTOP, FLUSH MOUNT BACKSTOP, PCB BACKSTOP (SHOWN), AND WIDE FLANGE BACKSTOP. IT IS APPLICABLE WITH ASPHALT ANCHORING PACKAGES FOR PCB BACKSTOP AND PCB BRACE KIT FOR COMPACT BACKSTOP.
3.)THRIE BEAM TERMINAL CONNECTOR PER AASHTO HARDWARE SPECIFICATION RTE01. GALVANIZE IN ACCORDANCE WITH FLORIDA DOT SPECIFICATION 967.
4.) STANDARD TIMBER OR PLASTIC OFFSET BLOCKS FIELD TRIMMED FOR USE. BLOCK OUT DETIAL SHOWS DIMENSIONS FOR F-SHAPE SAFETY SHAPED BARRIER. ACTUAL DIMENSIONS SHOULD REFLECT SHAPE OF BARRIER TRANSITIONED TO. BLOCK OUTS SHALL MEET THE REQUIREMENTS OF FLORIDA DOT INDEX 400, 410, AND FLORIDA DOT SPECIFICATIONS.
5.) PANELS AND BLOCKOUT ATTACHED TO BARRIER WALL WITH 5/8" [16mm] BOLTS WITH BEAM WASHER AND NUT WITH WASHER AND BEAM WASHER. 20" [500mm] BOLTS MAY BE FIELD TRIMMED. LENGTH MAY VARY WITH DIFFERENT BARRIER SHAPES. HOLES DRILLED THROUGH MEDIAN BARRIER ARE 3/4" [20mm]. CHEMICALLY BONDED OR MECHANICAL ANCHORS MAY BE USED THAT MEET OR EXCEED 15,000 LBF SHEAR AND PULL OUT STRENGTH.
6.) ATTACH THRIE BEAM TERMINAL CONNECTOR TO MEDIAN BARRIER WITH (3) 5/8" [16mm] BOLTS WITH WASHERS AND NUT WITH WASHERS AND BEAM WASHERS. REFERENCE NOTE 5 FOR DETAILS.
7.) ATTACH THRIE BEAM TERMINAL CONNECTOR TO UNIVERSAL TAU-II END PANEL WITH 5/8" [16mm] X 2" [50mm] BOLTS WITH BEAM WASHER AND NUT WITH WASHER.
8.) TRANSITION BRACKET TO BE INSTALLED OVER PIPE PANEL MOUNTS UNDER THE (2) NESTED ANGLED END PANELS AND THE SLIDING PANEL. BEND IN TRANSITION BRACKET FACES REARWARD AND FITS AROUND PIPE PANEL MOUNTS. JOINT IS SECURED WITH SLIDING BOLTS. SLIDING BOLTS TO BE TORQUED PER MANUFACTURERS SPECIFICATIONS.
9.) WHERE REAMING IS NECESSARY TO FIT NESTED BEAMS AND TERMINAL CONNECTORS THE REAMED SURFACES SHALL BE METALIZED IN ACCORDANCE WITH FLORIDA DOT INDEX 400.
10.) ALL HARDWARE AND FASTENERS TO BE GALVANIZED IN ACCORDANCE WITH FLORIDA DOT SPECIFICATION 967.

REV.	ECN No.	DATE	BY	REQ'D	NEXT ASSY.	ITEM
A	1236	10/16/08	JR	1	NA	1

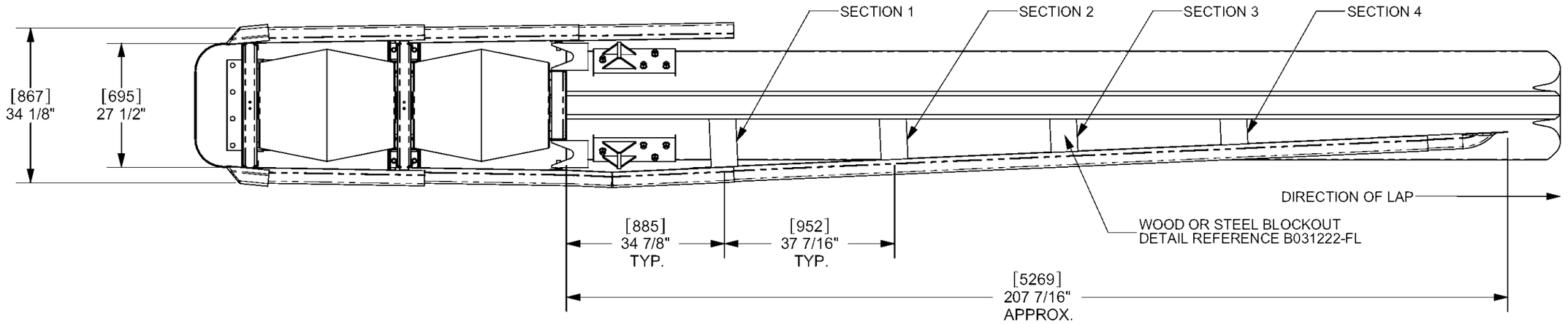
SCALE: 1:25

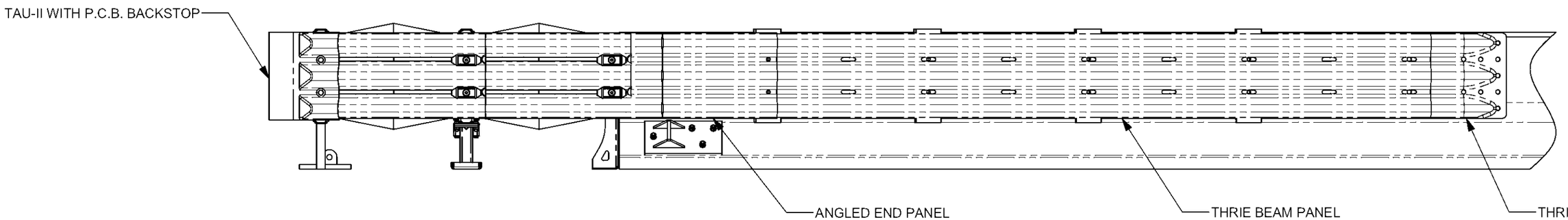
	DATE	INIT.
DRAWN BY	06/06/05	GAD
		GAD

Standard Tolerance
Angular +/- 1/2 Deg.
Fractional +/- 1/16
Dec. XXX= +/- .010
Dec. .XX= +/- .030

TITLE:
UNIVERSAL TAU-II TRANSITION TO MEDIAN BARRIER

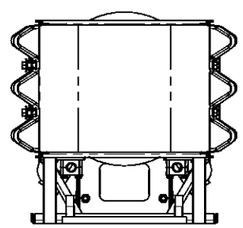
DRAWING NUMBER	REV
B050606-FL	A

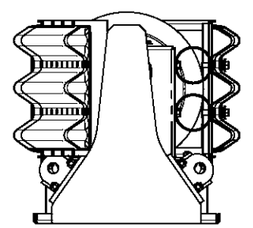




NOTES UNLESS OTHERWISE SPECIFIED:

1.) REINFORCEMENT OF SAFETY SHAPED BARRIER END MAY BE NEEDED. REFER TO BSI SPECIFICATION B011044 OR B011045 FOR FOUNDATION REQUIREMENTS.
2.) USE HARDWARE AND BLOCKOUTS IN ACCORDANCE WITH FLORIDA DOT SPECIFICATIONS. REFERENCE INDEX 400 DETAIL J AND INDEX 410 'GUARDRAIL CONNECTION TO CONCRETE BARRIER WALL APPROACH ENDS'.
3.) 4-SPACE THRIE BEAM GUARDRAIL PER AASHTO HARDWARE SPECIFICATION RTM01. GALVANIZE IN ACCORDANCE WITH FLORIDA DOT SPECIFICATION 967.
4.) THRIE BEAM TERMINAL CONNECTOR PER AASHTO HARDWARE SPECIFICATION RTE01. GALVANIZE IN ACCORDANCE WITH FLORIDA DOT SPECIFICATION 967.
5.) STANDARD TIMBER OR PLASTIC OFFSET BLOCKS FIELD TRIMMED FOR USE AT SECTIONS 1-4. REFERENCE BSI DRAWING B031222-FL FOR BLOCKOUT DETAILS. BLOCKOUTS SHALL MEET REQUIREMENTS OF FLORIDA DOT INDEX 400, 410, AND FLORIDA DOT SPECIFICATIONS.
6.) 5/8" DIA BUTTON HEAD BOLT WITH BEAM WASHER AND NUT WITH WASHER AND BEAM WASHER. BOLT LENGTH DETERMINED BY SECTION WIDTH: 1-28", 2-24", 3-20", AND 4-16". LENGTHS MAY VARY WITH DIFFERENT BARRIER SHAPES. HOLES DRILLED THROUGH CONCRETE BARRIER ARE 3/4" DIA.
7.) ATTACH THRIE BEAM TERMINAL CONNECTOR TO MEDIAN BARRIER WALL WITH 7/8" X 15" LONG HS HEX BOLTS AND NUTS WITH 7/8" PLAIN ROUND WASHERS UNDER HEADS AND NUTS. ATTACH TO SHOULDER BARRIER WALL WITH A 21" X 12" X 5/8" THRIE BEAM TERMINAL CONNECTOR PLATE AND 7/8" X 12" LONG HS HEX BOLTS AND NUTS WITH 7/8" PLAIN ROUND WASHERS UNDER HEADS AND NUTS.
8.) WHERE REAMING IS NECESSARY TO FIT NESTED BEAMS AND TERMINAL CONNECTORS THE REAMED SURFACES SHALL BE METALIZED IN ACCORDANCE WITH FLORIDA DOT INDEX 400.
9.) ALL HARDWARE AND FASTENERS TO BE GALVANIZED IN ACCORDANCE WITH FLORIDA DOT SPECIFICATION 967.
10.) TAU-II SYSTEM TO BE INSTALLED PER MANUFACTURER INSTRUCTIONS.





REV.	CHANGES	DATE	BY	REQ'D	NEXT ASSY.	ITEM
0	NEW DRAWING	10/14/08	JR			

SCALE: 1:25

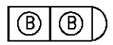
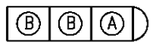
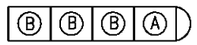
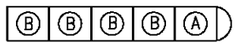
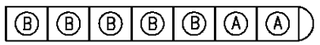
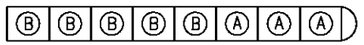
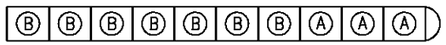
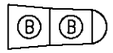
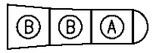
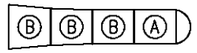
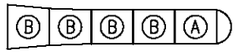
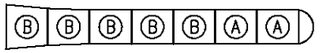
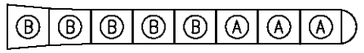
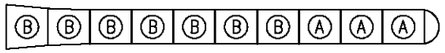
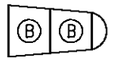
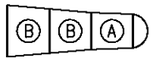
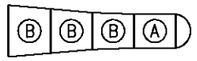
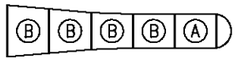
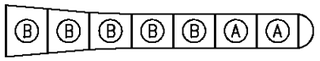
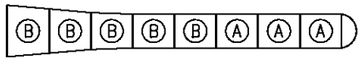
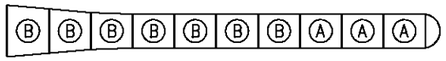
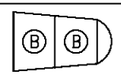
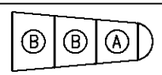
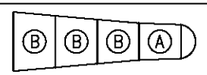
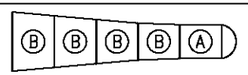
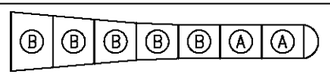
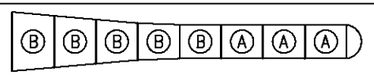
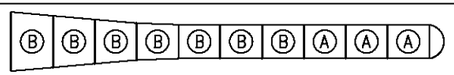
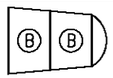
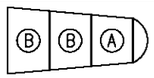
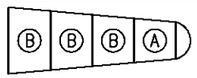
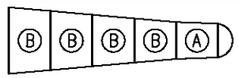
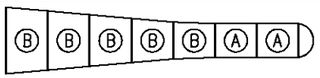
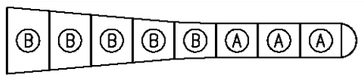
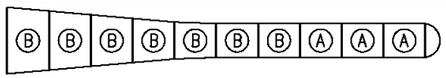
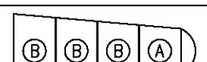
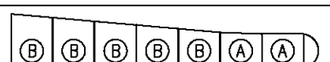
	DATE	INIT.
DRAWN BY	10/14/08	JR
APPR'D BY		

Standard Tolerance
Angular ± 1/2°
Fractional ± 1/16"
Dec .XXX= ± .010
Dec .XX= ± .030

TITLE: TAU-II WITH P.C.B. BACKSTOP, TRANSTION TO P.C.B., ONE-SIDED

BARRIER SYSTEMS
180 RIVER RD, RIO VISTA, CA 94571
TEL: 707-374-6800 FAX: 707-374-6801

SHEET	DRAWING NUMBER	REV
1 OF 1	B081026-FL	0

BACKSTOP WIDTH	SYSTEM CAPACITY						
	30 MPH	35 MPH	45 MPH	50 MPH	55 MPH	60 MPH	70 MPH
PARALLEL UP TO 30"							
36" BACKSTOP							
42" BACKSTOP							
48" BACKSTOP							
54" BACKSTOP							
60" BACKSTOP							
66" BACKSTOP							
72" BACKSTOP							
78" BACKSTOP							
84" BACKSTOP							
90" BACKSTOP							
96" BACKSTOP							
						102" BACKSTOP	

PARALLEL BACKSTOP
65 MPH

36" BACKSTOP
65 MPH

REV.	CHANGES	DATE	BY	REQ'D	NEXT ASSY.	ITEM
B	ADDED 65 MPH SYSTEMS	04/27/06	JR	1	NA	1

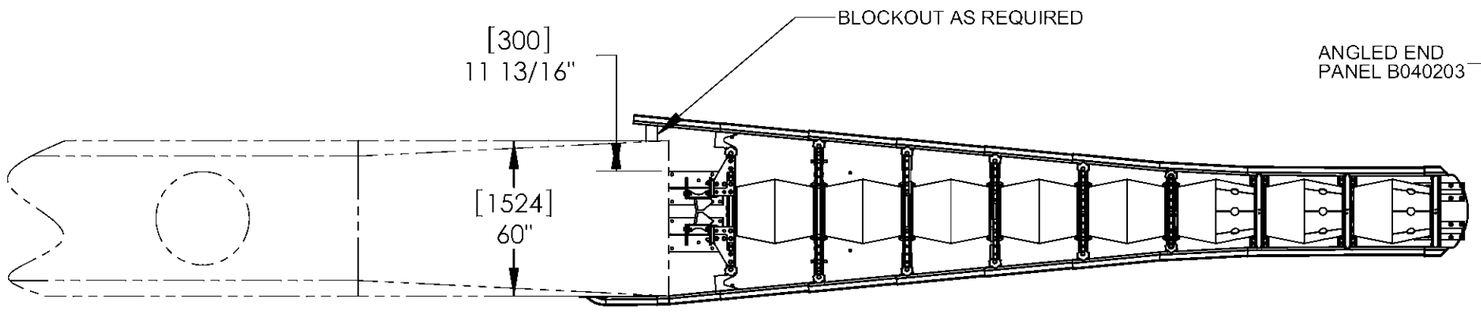
SCALE: 1=80
DRAWN BY 12/30/03 INIT. CAD
APPR'D BY
Standard Tolerance
Angular ± 1/2°
Fractional ± 1/16
Dec .XXX=± .010
Dec .XX=± .030

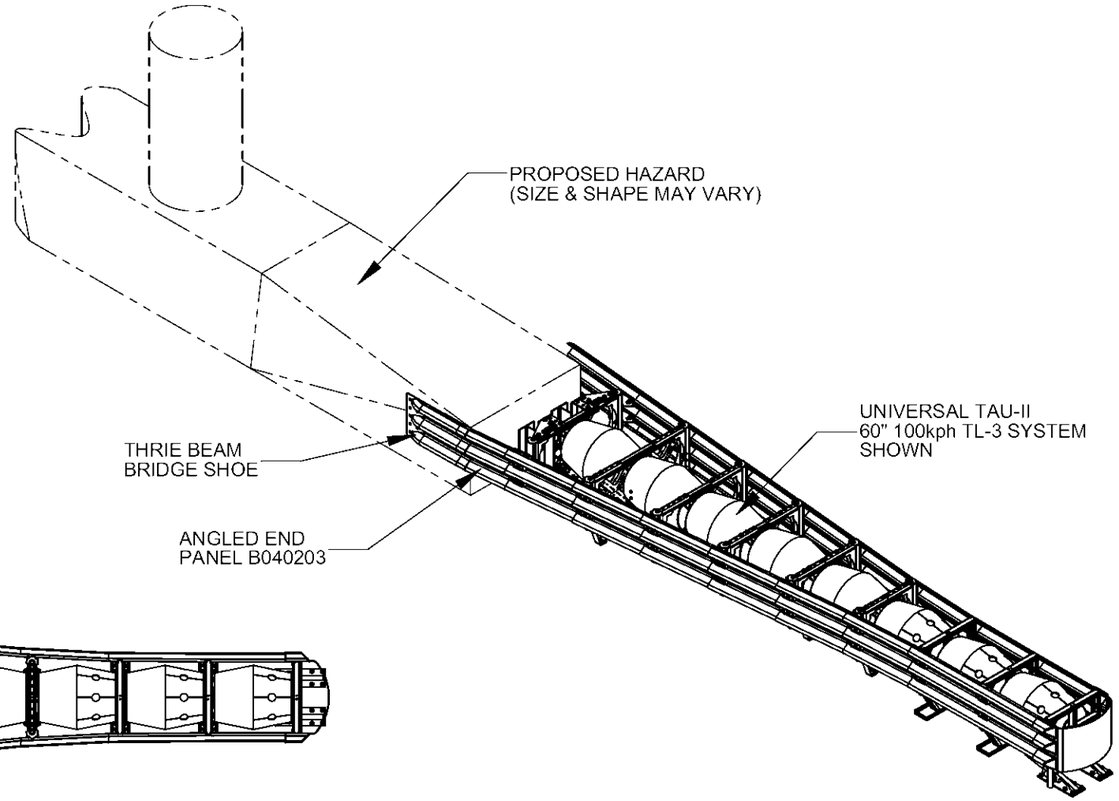
TITLE: UNIVERSAL TAU-II SYSTEM CONFIGURATION MATRIX

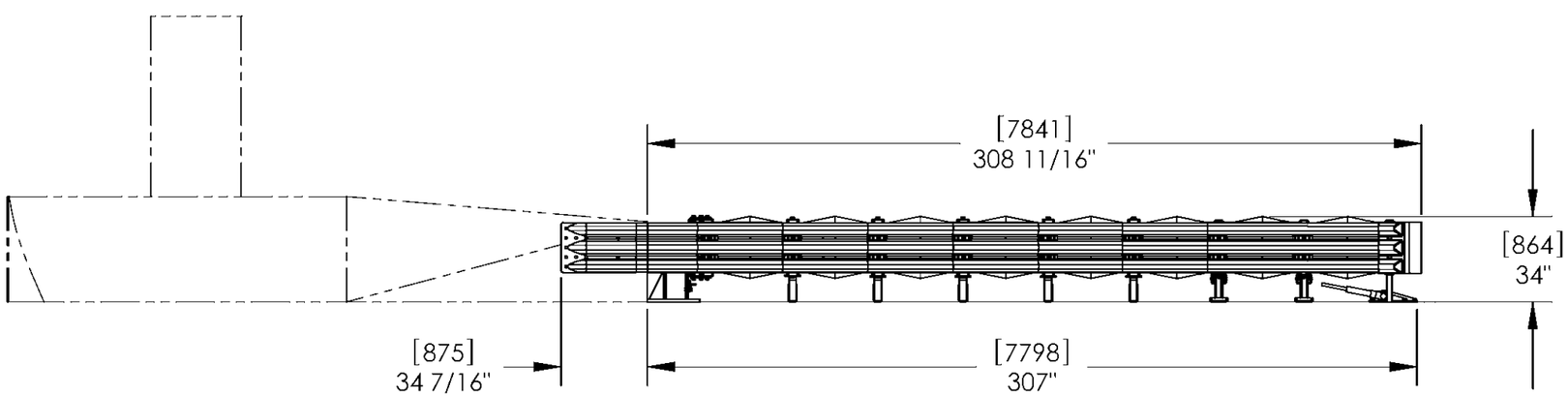
MODEL	DRAWING NUMBER	REV.
	D031101-FL	B

NOTES UNLESS OTHERWISE SPECIFIED:

1. UNIVERSAL TAU-II TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
2. SYSTEMS SHOWN IS TL-3, 60" SYSTEM WITH AN ANGLED END PANEL AND STANDARD THRIE BEAM BRIDGE SHOE TO PROVIDE TRANSITION FOR BI-DIRECTIONAL TRAFFIC.
3. SYSTEM IS OFFSET 2 11/16" [70mm] IN FROM TRANSITION SIDE TO PROVIDE FLUSH TRANSITION ATTACHMENT. TRANSITION IS ONLY REQUIRED ON REVERSE TRAFFIC SIDE.
4. SEE INSTALLATION MANUAL FOR FOUNDATION DETAILS.







REV.	CHANGES	DATE	BY	REQ'D	NEXT ASSY.	ITEM
0	NEW DRAWING	10/15/08	JR			

SCALE: 1:60

	DATE	INIT.
DRAWN BY	4/26/07	AEM
APPR'D BY		

Standard Tolerance
Angular ± 1/2°
Fractional ± 1/16"
Dec .XXX= ± .010
Dec .XX= ± .030

TITLE:
UNIVERSAL TAU-II SYSTEM
TRANSITION TO CONCRETE BLOCK

BARRIER SYSTEMS INC
180 RIVER RD, RIO VISTA, CA 94571
TEL: 707-374-6800 FAX: 707-374-6801

SHEET	DRAWING NUMBER	REV
1 OF 1	AP070406-FL	0

UNIVERSAL TAU-II FOUNDATION DIMENSIONS

US STANDARD UNITS - INCHES

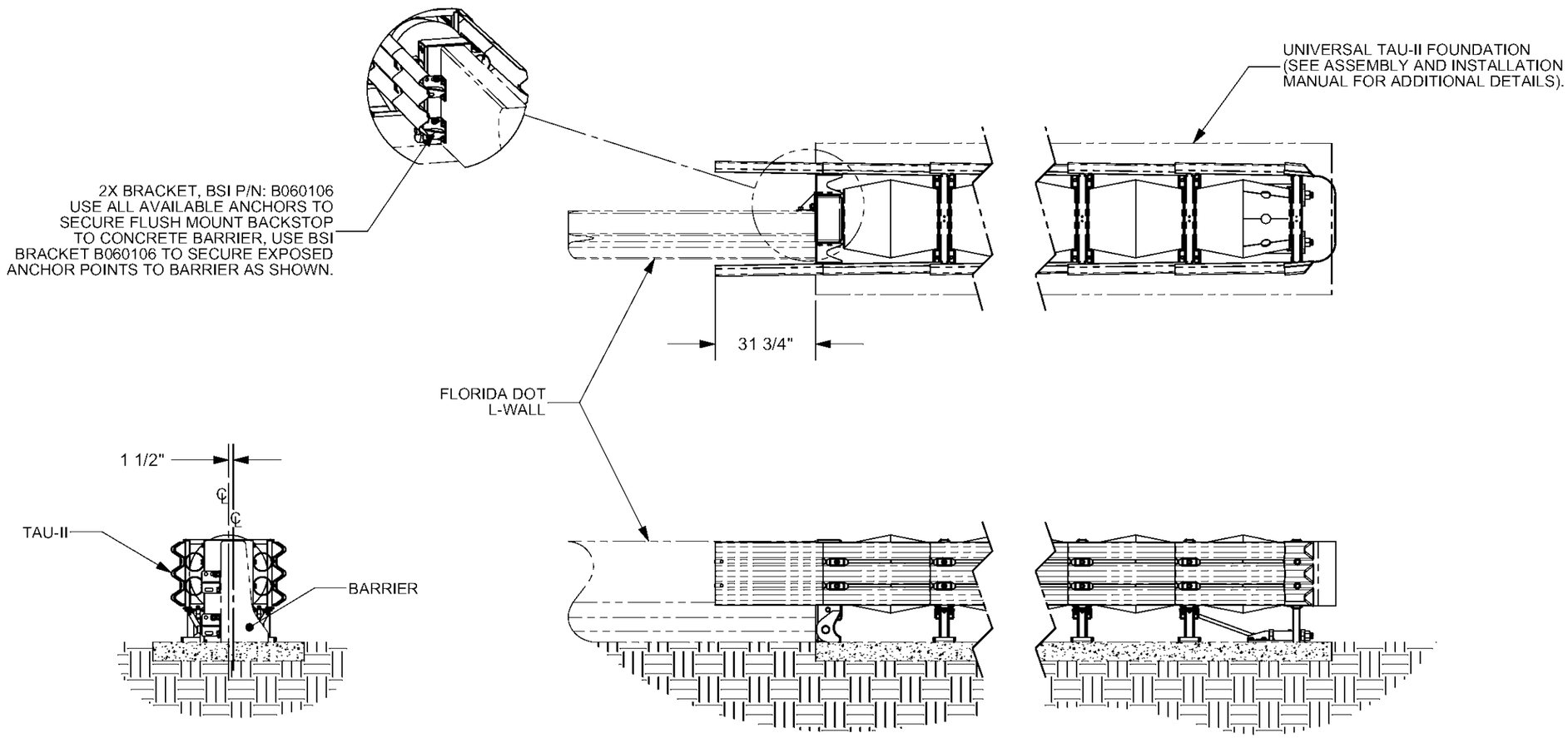
SYSTEM WIDTH (IN)	SYSTEM SPEED CAPACITY (MPH)								DRAWING NUMBER
	30	35	45 TL-2	50	55	60 TL-3	65	70	
UP TO 30" PCB BACKSTOP	30T050PBC	30T060PBC	30T070PBC	30T080PBC	30T090PBC	30T100PBC	30T105PBC	30T110PBC	A040105 A040117
	30T050PYC	30T060PYC	30T070PYC	30T080PYC	30T090PYC	30T100PYC	30T105PYC	30T110PYC	
L (in)	85 1/2	119 1/2	154	188	256	290 1/2	324 1/2	358 1/2	
P (in)	62 3/4	96 7/8	131	165 1/8	233 3/8	267 1/2	301 1/2	335 3/4	
UP TO 30" COMPACT BACKSTOP	30T050CBC	30T060CBC	30T070CBC	30T080CBC	30T090CBC	30T100CBC	30T105CBC	30T110CBC	A040102 A040115
	30T050CYC	30T060CYC	30T070CYC	30T080CYC	30T090CYC	30T100CYC	30T105CYC	30T110CYC	
L (in)	115 1/2	149 1/2	183 1/2	217 1/2	286	320	354	388 1/2	
P (in)	55 1/2	89 5/8	123 3/4	157 7/8	226 1/8	260 1/4	294 1/4	328 1/2	
UP TO 30" ASPHALT PCB BACKSTOP	30T050PBA	30T060PBA	30T070PBA	30T080PBA	30T090PBA	30T100PBA	30T105PBA	30T110PBA	A040112
	30T050PYA	30T060PYA	30T070PYA	30T080PYA	30T090PYA	30T100PYA	30T105PYA	30T110PYA	
L (in)	139 3/4	173 3/4	208 1/4	242 1/4	310 1/4	344 3/4	378 3/4	412 3/4	
P (in)	62 3/4	96 7/8	131	165 1/8	233 3/8	267 1/2	301 1/2	335 3/4	
UP TO 30" ASPHALT COMPACT BACKSTOP	30T050CBA	30T060CBA	30T070CBA	30T080CBA	30T090CBA	30T100CBA	30T105CBC	30T110CBA	A040110
	30T050CYA	30T060CYA	30T070CYA	30T080CYA	30T090CYA	30T100CYA	30T105CYA	30T110CYA	
L (in)	156 1/2	190 1/2	224 1/2	258 1/2	327	361	394	429 1/2	
P (in)	55 1/2	89 5/8	123 3/4	157 7/8	226 1/8	260 1/4	294 1/4	328 1/2	
36" PCB BACKSTOP	36T050PBC	36T060PBC	36T070PBC	36T080PBC	36T090PBC	36T100PBC	36T105PBC	36T110PBC	A040105 A040117
	36T050PYC	36T060PYC	36T070PYC	36T080PYC	36T090PYC	36T100PYC	36T105PYC	36T110PYC	
L (in)	85 1/2	119 1/2	154	188	256	290 1/2	324 1/5	358 1/2	
P (in)	62 3/4	96 7/8	131	165 1/8	233 3/8	267 1/2	301 1/5	335 3/4	
36" COMPACT BACKSTOP	36T050CBC	36T060CBC	36T070CBC	36T080CBC	36T090CBC	36T100CBC	36T105CBC	36T110CBC	A040102 A040115
	36T050CYC	36T060CYC	36T070CYC	36T080CYC	36T090CYC	36T100CYC	36T105CYC	36T110CYC	
L (in)	115 1/2	149 1/2	183 1/2	217 1/2	286	320	354	388 1/2	
P (in)	55 1/2	89 5/8	123 3/4	157 7/8	226 1/8	260 1/4	294 1/4	328 1/2	
36" ASPHALT PCB BACKSTOP	36T050PBA	36T060PBA	36T070PBA	36T080PBA	36T090PBA	36T100PBA	36T105PBA	36T110PBA	A040112
	36T050PYA	36T060PYA	36T070PYA	36T080PYA	36T090PYA	36T100PYA	36T105PYA	36T110PYA	
L (in)	139 3/4	173 3/4	208 1/4	242 1/4	310 1/4	344 3/4	378 3/4	412 3/4	
P (in)	62 3/4	96 7/8	131	165 1/8	233 3/8	267 1/2	301 1/4	335 3/4	
36" ASPHALT COMPACT BACKSTOP	36T050CBA	36T060CBA	36T070CBA	36T080CBA	36T090CBA	36T100CBA	36T105CBA	36T110CBA	A040110
	36T050CBA	36T060CYA	36T070CYA	36T080CYA	36T090CYA	36T100CYA	36T105CYA	36T110CYA	
L (in)	156 1/2	190 1/2	224 1/2	258 1/2	327	361	394	429 1/2	
P (in)	55 1/2	89 5/8	123 3/4	157 7/8	226 1/8	260 1/4	294 1/4	328 1/2	
UP TO 36" PCC PAD FLUSH MOUNT BACKSTOP	36T050FBC	36T060FBC	36T070FBC	36T080FBC	36T090FBC	36T100FBC	36T105FBC	36T110FBC	A040420
	36T050FYC	36T060FYC	36T070FYC	36T080FYC	36T090FYC	36T100FYC	36T105CYC	36T110FYC	
L (in)	83 1/2	117 1/2	151 1/2	185 1/2	254	288	322	356 1/2	
P (in)	59 1/2	93 1/2	127 1/2	161 1/2	230	264	298	332 1/2	
42" WF BACKSTOP	42T050WBC	42T060WBC	42T070WBC	42T080WBC	42T090WBC	42T100WBC	42T105WBC	42T110WBC	A040108
	42T050WYC	42T060WYC	42T070WYC	42T080WYC	42T090WYC	42T100WYC	42T105WYC	42T110WYC	
L (in)	125	159	193	227	295	329	363	397	
W1 (in)	44	44	44	44	44	44	44	44	
W2 (in)	51	51	51	51	51	51	51	51	
P (in)	65	99	133	167	235	269	303	337	
A (in)	22	22	22	22	22	22	22	22	
B (in)	31	31	31	31	31	31	31	31	
C (in) *	NA	NA	NA	NA	NA	NA	NA	NA	
D (in)	16	16	16	16	16	16	16	16	
E (in) *	NA	NA	NA	NA	NA	NA	NA	NA	

	SYSTEM SPEED CAPACITY (MPH)								DRAWING
SYSTEM WIDTH (IN)	30	35	45 TL-2	50	55	60 TL-3	65	70	NUMBER
48" WF BACKSTOP	**48T050WBC**	**48T060WBC**	**48T070WBC**	**48T080WBC**	**48T090WBC**	**48T100WBC**	**48T105WBC**	**48T110WBC**	
	48T050WYC	**48T060WYC**	**48T070WYC**	**48T080WYC**	**48T090WYC**	**48T100WYC**	**48T105WYC**	**48T110WYC**	
L (in)	125	159	193	227	295	329	363	397	
W1 (in)	44	44	44	44	44	44	44	44	
W2 (in)	51	51	51	51	51	51	51	51	
P (in)	65	99	133	167	235	269	303	337	A040108
A (in)	22	22	22	22	22	22	22	22	
B (in)	31	31	31	31	31	31	31	31	
C (in) *	NA	NA	NA	NA	NA	NA	NA	NA	
D (in)	16	16	16	16	16	16	16	16	
E (in) *	NA	NA	NA	NA	NA	NA	NA	NA	
54" WF BACKSTOP	**54T050WBC**	**54T060WBC**	**54T070WBC**	**54T080WBC**	**54T090WBC**	**54T100WBC**	**54T105WBC**	**54T110WBC**	
	54T050WYC	**54T060WYC**	**54T070WYC**	**54T080WYC**	**54T090WYC**	**54T100WYC**	**54T105WYC**	**54T110WYC**	
L (in)	125	159	193	227	295	329	363	397	
W1 (in)	44	44	44	44	44	44	44	44	
W2 (in)	51	51	51	51	51	51	51	51	
P (in)	65	99	133	167	235	269	303	337	A040108
A (in)	22	22	22	22	22	22	22	22	
B (in)	31	31	31	31	31	31	31	31	
C (in) *	NA	NA	NA	NA	NA	NA	NA	NA	
D (in)	16	16	16	16	16	16	16	16	
E (in) *	NA	NA	NA	NA	NA	NA	NA	NA	
60" WF BACKSTOP	**60T050WBC**	**60T060WBC**	**60T070WBC**	**60T080WBC**	**60T090WBC**	**60T100WBC**	**60T105WBC**	**60T110WBC**	
	60T050WYC	**60T060WYC**	**60T070WYC**	**60T080WYC**	**60T090WYC**	**60T100WYC**	**60T105WYC**	**60T110WYC**	
L (in)	125	159	193	227	295	329	363	397	
W1 (in)	44	44	44	44	44	44	44	44	
W2 (in)	51	51	51	51	51	51	51	51	
P (in)	65	99	133	167	235	269	303	337	A040108
A (in)	22	22	22	22	22	22	22	22	
B (in)	31	31	31	31	31	31	31	31	
C (in) *	NA	NA	NA	NA	NA	NA	NA	NA	
D (in)	16	16	16	16	16	16	16	16	
E (in) *	NA	NA	NA	NA	NA	NA	NA	NA	
66" WF BACKSTOP		**66T060WBC**	**66T070WBC**	**66T080WBC**	**66T090WBC**	**66T100WBC**	**66T105WBC**	**66T110WBC**	
		66T060WYC	**66T070WYC**	**66T080WYC**	**66T090WYC**	**66T100WYC**	**66T106WYC**	**66T110WYC**	
L (in)		125	159	193	261	295	329	363	
W1 (in)		69	44	44	44	44	44	44	
W2 (in)		75	75	75	75	75	75	75	
P (in)		65	99	133	201	235	269	303	A040108
A (in)		48 5/8	22	22	22	22	22	22	
B (in)		54 3/4	54 3/4	54 3/4	54 3/4	54 3/4	54 3/4	54 3/4	
C (in) *		NA	27 3/4	27 3/4	27 3/4	27 3/4	27 3/4	27 3/4	
D (in)		42 5/8	16	16	16	16	16	16	
E (in) *		NA	41 3/4	41 3/4	41 3/4	41 3/4	41 3/4	41 3/4	
72" WF BACKSTOP		**72T060WBC**	**72T070WBC**	**72T080WBC**	**72T090WBC**	**72T100WBC**	**72T105WBC**	**72T110WBC**	
		72T060WYC	**72T070WYC**	**72T080WYC**	**72T090WYC**	**72T100WYC**	**72T105WYC**	**72T110WYC**	
L (in)		125	159	193	227	295	329	329	
W1 (in)		69	69	44	44	44	44	44	
W2 (in)		75	75	75	75	75	75	75	
P (in)		65	99	133	167	235	269	269	A040108
A (in)		48 5/8	48 5/8	22	22	22	22	22	
B (in)		54 3/4	54 3/4	54 3/4	54 3/4	54 3/4	54 3/4	54 3/4	
C (in) *		NA	NA	27 3/4	27 3/4	27 3/4	27 3/4	27 3/4	
D (in)		42 5/8	42 5/8	16	16	16	16	16	
E (in) *		NA	NA	41 3/4	41 3/4	41 3/4	41 3/4	41 3/4	

SYSTEM WIDTH (IN)	SYSTEM SPEED CAPACITY (MPH)								DRAWING NUMBER
	30	35	45 TL-2	50	55	60 TL-3	65	70	
78" WF BACKSTOP		**78T060WBC**	**78T070WBC**	**78T080WBC**	**78T090WBC**	**78T100WBC**	**78T105WBC**	**78T110WBC**	**A040108**
		78T060WYC	**78T070WYC**	**78T080WYC**	**78T090WYC**	**78T100WYC**	**78T105WYC**	**78T110WYC**	
L (in)		125	159	193	227	295	329	329	
W1 (in)		69	69	69	44	44	44	44	
W2 (in)		75	75	75	75	75	75	75	
P (in)		65	99	133	167	235	269	269	
A (in)		48 5/8	48 5/8	48 5/8	22	22	22	22	
B (in)		54 3/4	54 3/4	54 3/4	54 3/4	54 3/4	54 3/4	54 3/4	
C (in) *		NA	NA	NA	27 3/4	27 3/4	27 3/4	27 3/4	
D (in)		42 5/8	42 5/8	42 5/8	16	16	16	16	
E (in) *		NA	NA	NA	41 3/4	41 3/4	41 3/4	41 3/4	
84" WF BACKSTOP			**84T070WBC**	**84T080WBC**	**84T090WBC**	**84T100WBC**	**84T105WBC**	**84T110WBC**	**A040108**
			84T070WYC	**84T080WYC**	**84T090WYC**	**84T100WYC**	**84T105WYC**	**84T110WYC**	
L (in)			159	193	227	295	329	329	
W1 (in)			69	69	69	44	44	44	
W2 (in)			75	75	75	75	75	75	
P (in)			99	133	167	235	269	269	
A (in)			48 5/8	48 5/8	48 5/8	22	22	22	
B (in)			54 3/4	54 3/4	54 3/4	54 3/4	54 3/4	54 3/4	
C (in) *			NA	NA	NA	27 3/4	27 3/4	27 3/4	
D (in)			42 5/8	42 5/8	42 5/8	16	16	16	
E (in) *			NA	NA	NA	41 3/4	41 3/4	41 3/4	
90" WF BACKSTOP			**90T070WBC**	**90T080WBC**	**90T090WBC**	**90T100WBC**	**90T105WBC**	**90T110WBC**	**A040108**
			90T070WYC	**90T080WYC**	**90T090WYC**	**90T100WYC**	**90T105WYC**	**90T110WYC**	
L (in)			159	193	227	295	329	329	
W1 (in)			69	69	69	44	44	44	
W2 (in)			99	99	99	99	99	99	
P (in)			99	133	167	235	269	269	
A (in)			48 5/8	48 5/8	48 5/8	22	22	22	
B (in)			78 5/8	78 5/8	78 5/8	78 5/8	78 5/8	78 5/8	
C (in) *			51 5/8	51 5/8	51 5/8	27 3/4	27 3/4	27 3/4	
D (in)			42 5/8	42 5/8	42 5/8	16	16	16	
E (in) *			65 5/8	65 5/8	65 5/8	65 5/8	65 5/8	65 5/8	
96" WF BACKSTOP			**96T070WBC**	**96T080WBC**	**96T090WBC**	**96T100WBC**	**96T105WBC**	**96T110WBC**	**A040108**
			96T070WYC	**96T080WYC**	**96T090WYC**	**96T100WYC**	**96T105WYC**	**96T110WYC**	
L (in)			159	193	227	295	329	329	
W1 (in)			93	69	69	69	69	44	
W2 (in)			99	99	99	99	99	99	
P (in)			99	133	167	235	269	269	
A (in)			72 5/8	48 5/8	48 5/8	48 5/8	22	22	
B (in)			78 5/8	78 5/8	78 5/8	78 5/8	78 5/8	78 5/8	
C (in) *			NA	51 5/8	51 1/3	51 5/8	27 3/4	27 3/4	
D (in) *			66 5/8	42 5/8	42 5/8	42 5/8	16	16	
E (in) *			NA	65 5/8	65 5/8	65 5/8	65 5/8	65 5/8	
102" WF BACKSTOP								**102T110WBC**	**A040108**
								102T110WYC	
L (in)								329	
W1 (in)								69	
W2 (in)								99	
P (in)								269	
A (in)								48 5/8	
B (in)								78 5/8	
C (in) *								51 5/8	
D (in)								42 5/8	
E (in) *								65 5/8	

NOTES UNLESS OTHERWISE SPECIFIED:

1. UNIVERSAL TAU-II SYSTEM TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. REFER TO INSTALLATION MANUAL.
2. ALL ANCHORS INTO CONCRETE BARRIER FOR BACKSTOP, BRACKETS TO BE IN ACCORDANCE WITH BSI SPECIFICATIONS FOR PC CONCRETE FOUNDATIONS. REFER TO INSTALLATION MANUAL FOR ADDITIONAL DETAILS.
3. SYSTEM SHOWN INSTALLED ON FLORIDA DOT L-WALL, INDEX NO. 410.



REV.	CHANGES	DATE	BY	REQ'D	NEXT ASSY.	ITEM
1	ADDED NOTE 3, CHANGED TITLE	10/05/09	JR			
0	NEW DRAWING	8/21/09	AEM			

SCALE: 1:40

	DATE	INIT.
DRAWN BY	8/21/09	AEM
APPR'D BY		AEM

Standard Tolerance
Angular ± 1/2°
Fractional ± 1/16"
Dec .XXX= ± .010
Dec .XX= ± .030

TITLE: FLUSH MOUNT BACKSTOP APPLICATION, SHOULDER WALLS

BARRIER SYSTEMS
A LINDSAY TRANSPORTATION SOLUTIONS COMPANY

SHEET	DRAWING NUMBER	REV
1 OF 1	AP090806	1