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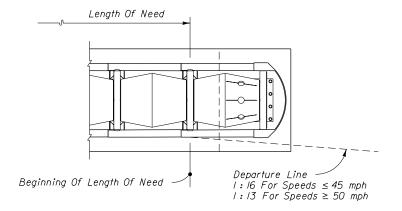
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Universal TAU-II Foundation, Wide	Flange Backstop	A040108 - F L
Universal TAU-II Foundation, AC Po	ad, Compact Backstop	A040IIO - F L
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TAU-∏ With Compact Backstop, Trai	nsition To Safety Shape P.C.B.	B0I0725-FL
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Universal TAU II Transition To Med	dian Barrier	B050606-FL
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Universal TAU-II Foundation Dimer	nsions - Inches	Universal TAU- ${ m I\hspace{1em}I}$ Foundation Dimension Chart-FL
Flush Mount Backstop Application	- Shoulder Walls	AP090806

UNIVERSAL TAU-II GENERAL NOTES

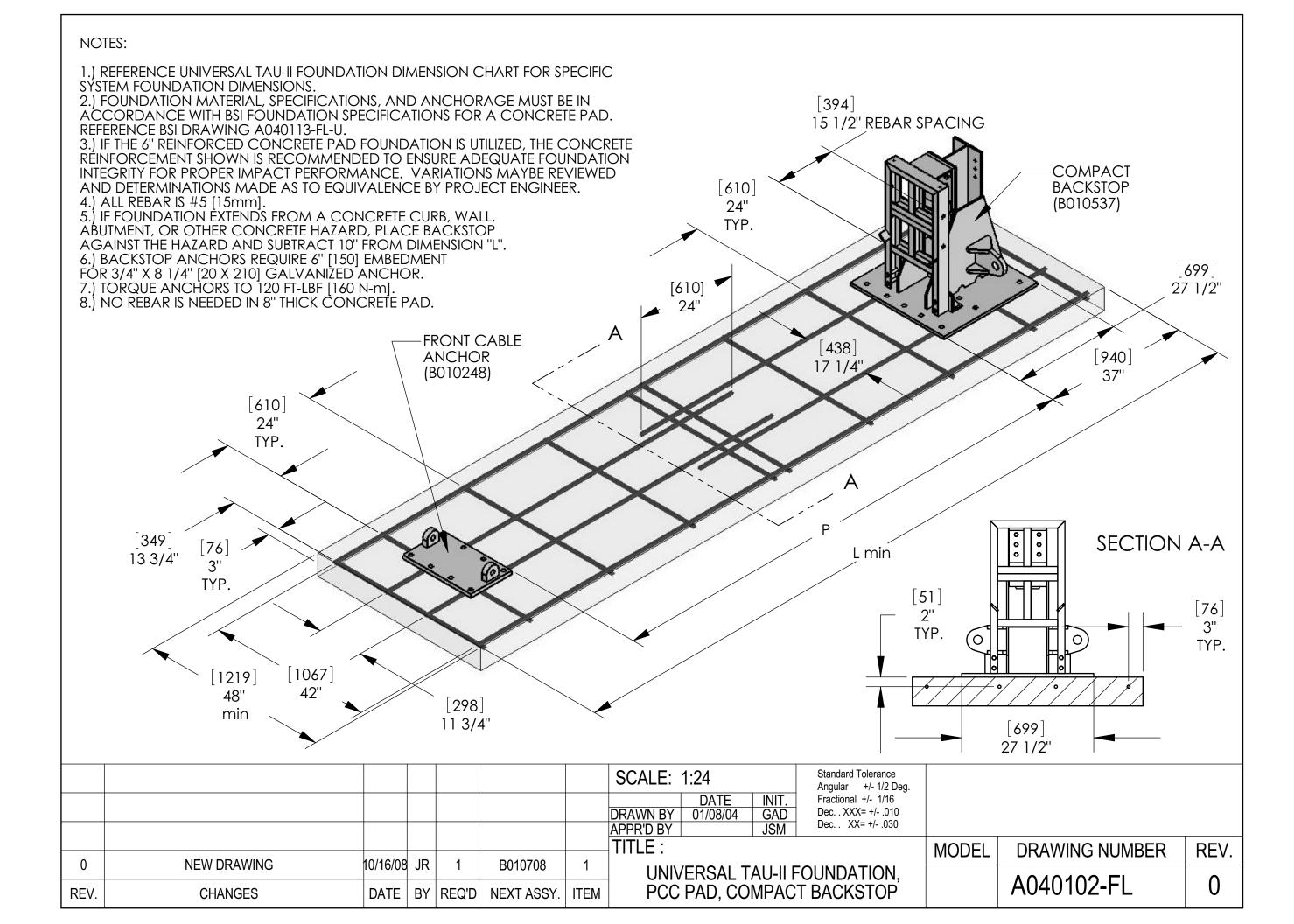
- I. The energy absorbing system represented on this Qualified Products List (QPL) drawing is a proprietary design by Barrier Systems, Inc. and marketed under the trade name Universal TAU-II. Any infringement on the rights of the designer shall be the sole responsibility of the user.
- 2. The Universal 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 I:IO 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. Il860. 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. 4/5, will be paid for under the contract unit price for Vehicular Impact Attenuator (Redirective Option) (Temporary), LO.

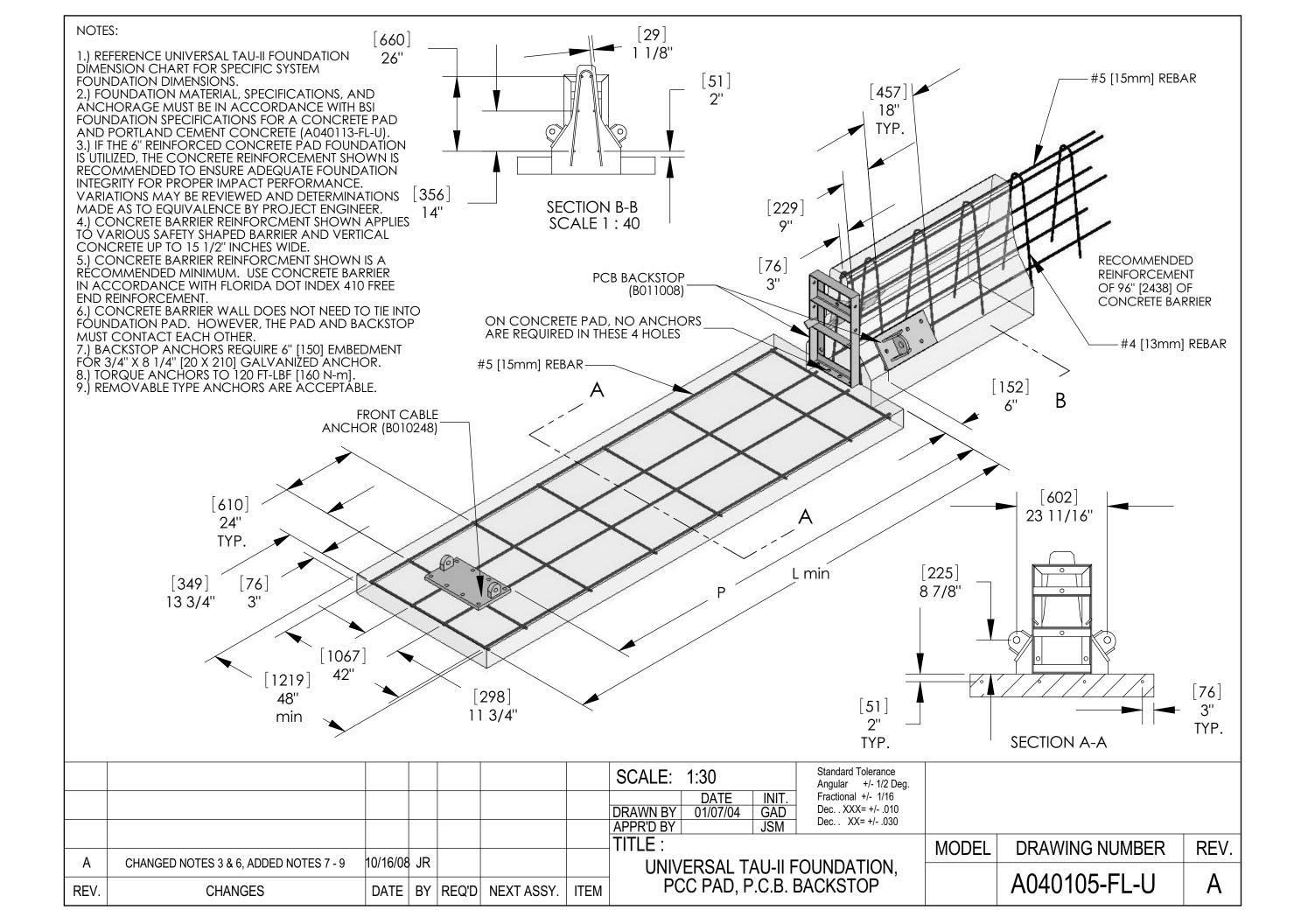
DESIGN NOTES AND GUIDELINES

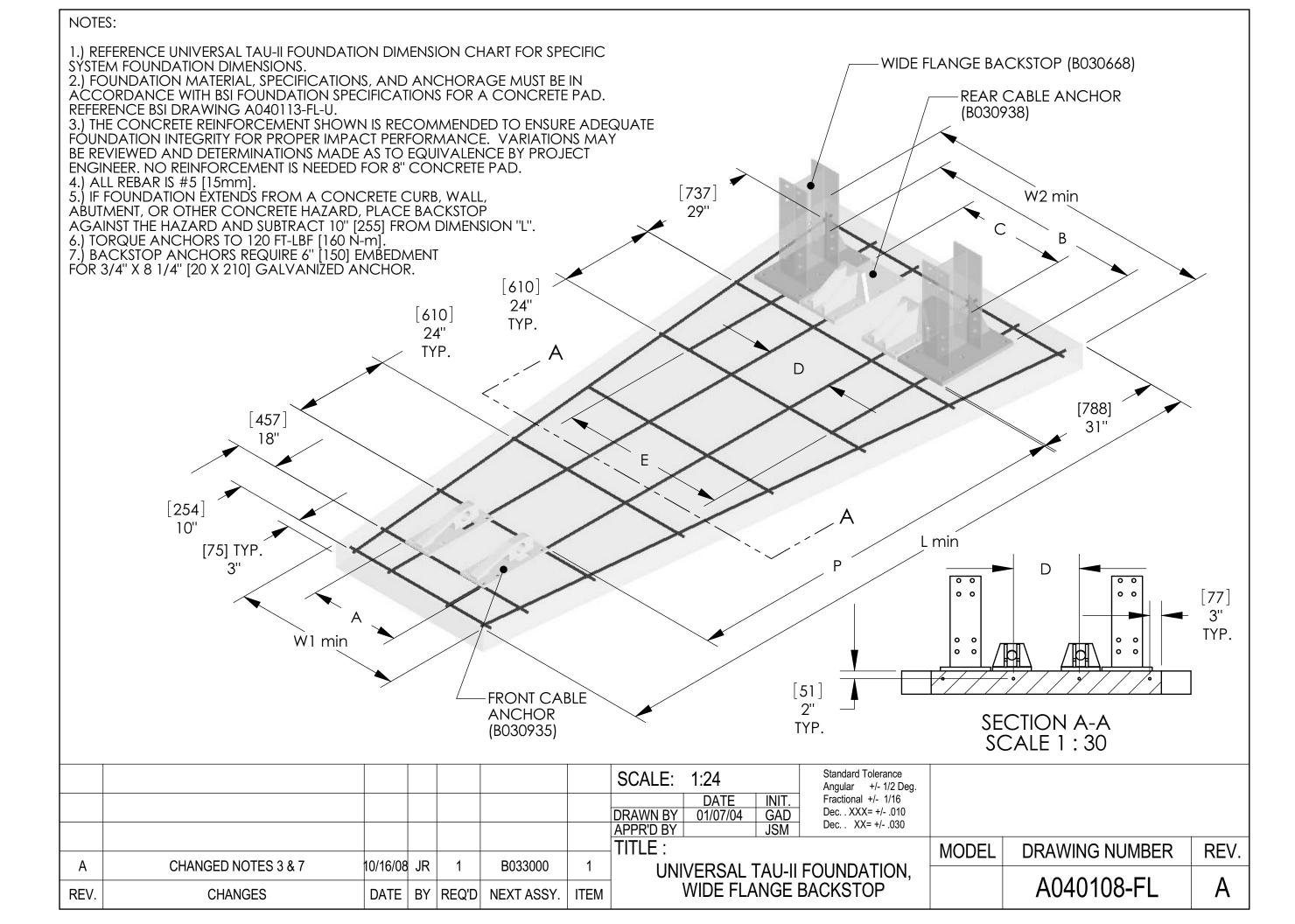
- I. The beginning length of need shall be at the point of intersection between the face of the cushion and the transverse centerline of the diaphragm back of the first cartridge. See detail below.
- 2. The Universal TAU-II System is designed to cushion automobile end-on hits and to redirect automobiles 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.

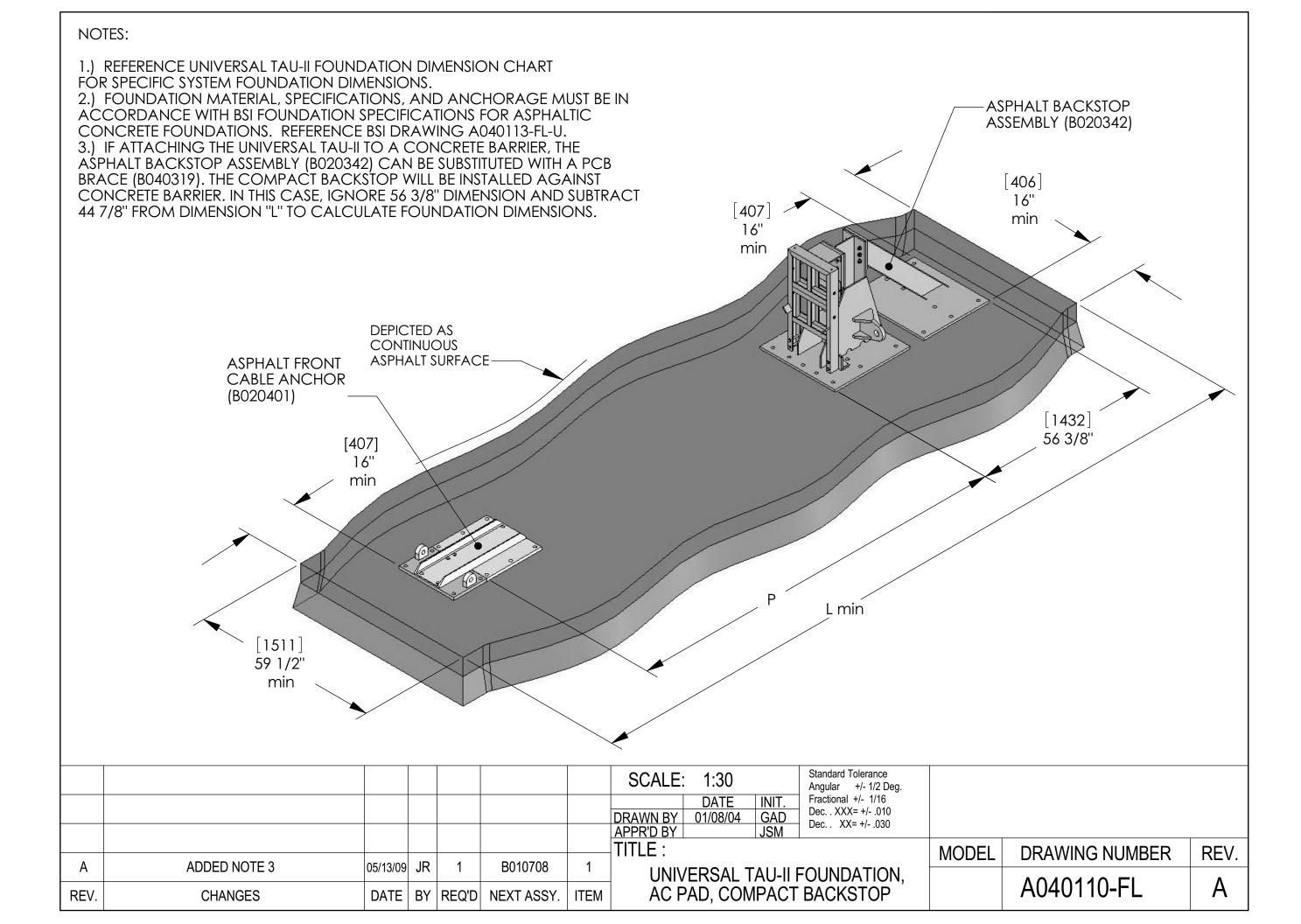


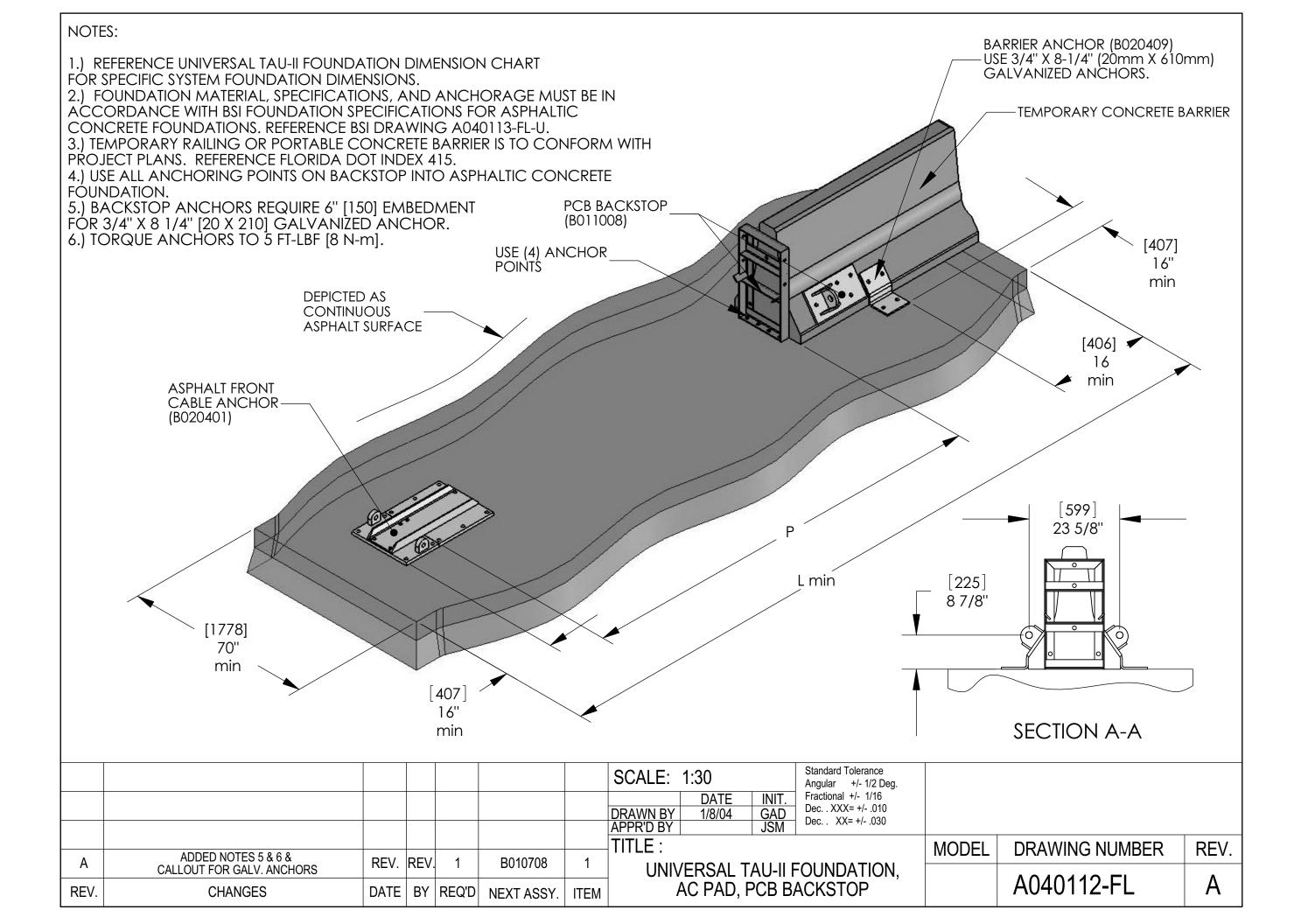
			STATE OF	FLORIDA DEPARTMENT OF TRANSPORTATION
		REVISIONS		UNIVERSAL TAU-II
DATE	BY	DESCRIPTION	DATE:	I
06/01/09	B.S.	Extensive revisions- Sheets deleted, new sheets added, notes and details clarified	08/31/05	QPL No. S544-0029
10/27/09	A.K.	Added Drawing AP090806 for shoulder walls.		







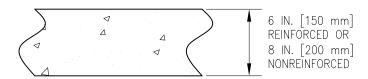




FOUNDATION SPECIFICATIONS:

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.

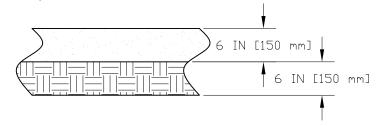
1.) CONCRETE PAD



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

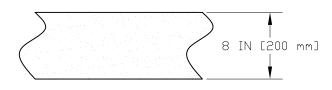


FOUNDATION: MINIMUM 6 IN [150 mm] AC OVER 6 IN. [150 mm] COMPACTED DGA SUBBASE

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

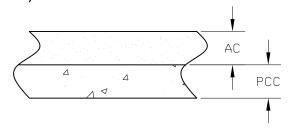


FOUNDATION: MINIMUM 8 IN. [200 mm] AC

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

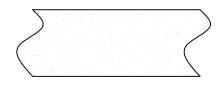
PORTLAND CEMENT CONCRETE (PCC)



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)

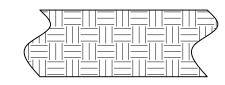
THE CONTRACTOR IS TO FURNISH A
CERTIFICATION THAT THE CONCRETE
INSTALLED MEETS THE REQUIRED
STRENGTH AND TESTING REQUIREMENTS

ASPHALTIC CONCRETE (AC)



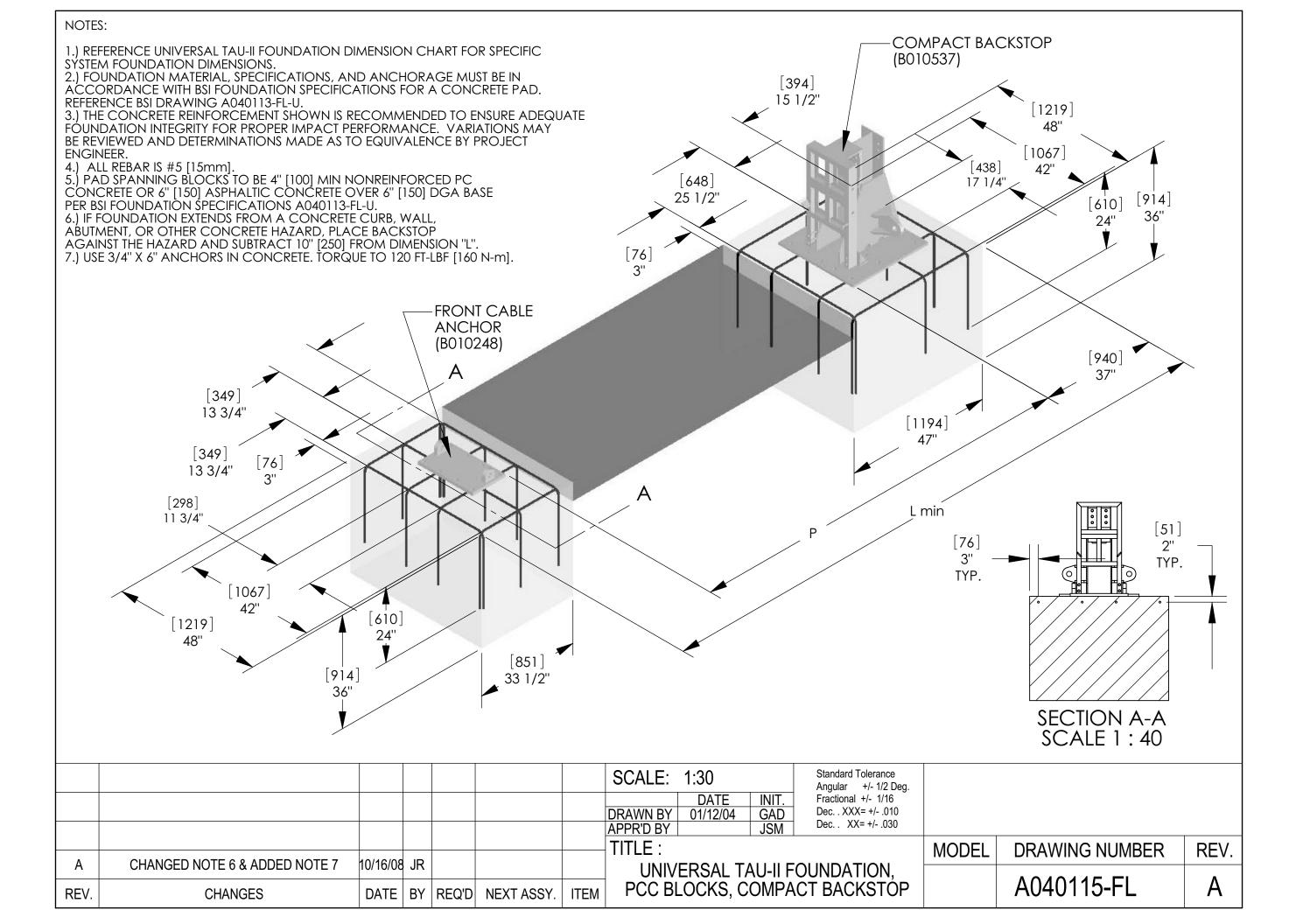
ASPHALT CONCRETE TYPE SP 12.5 TRAFFIC LEVEL C OR HIGHER (FDOT SPECIFICATION 334)

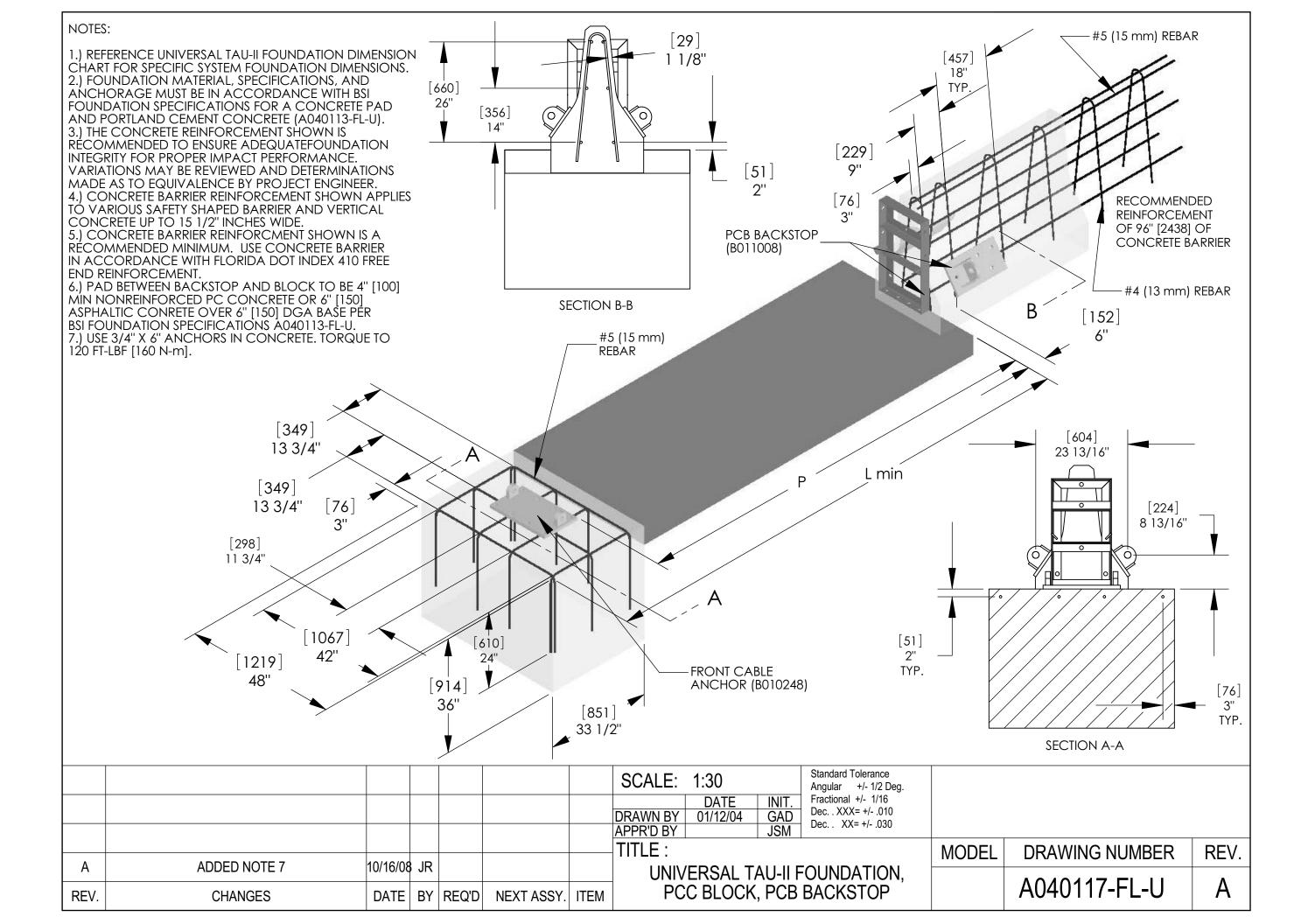
COMPACTED SUBBASE (DGA)

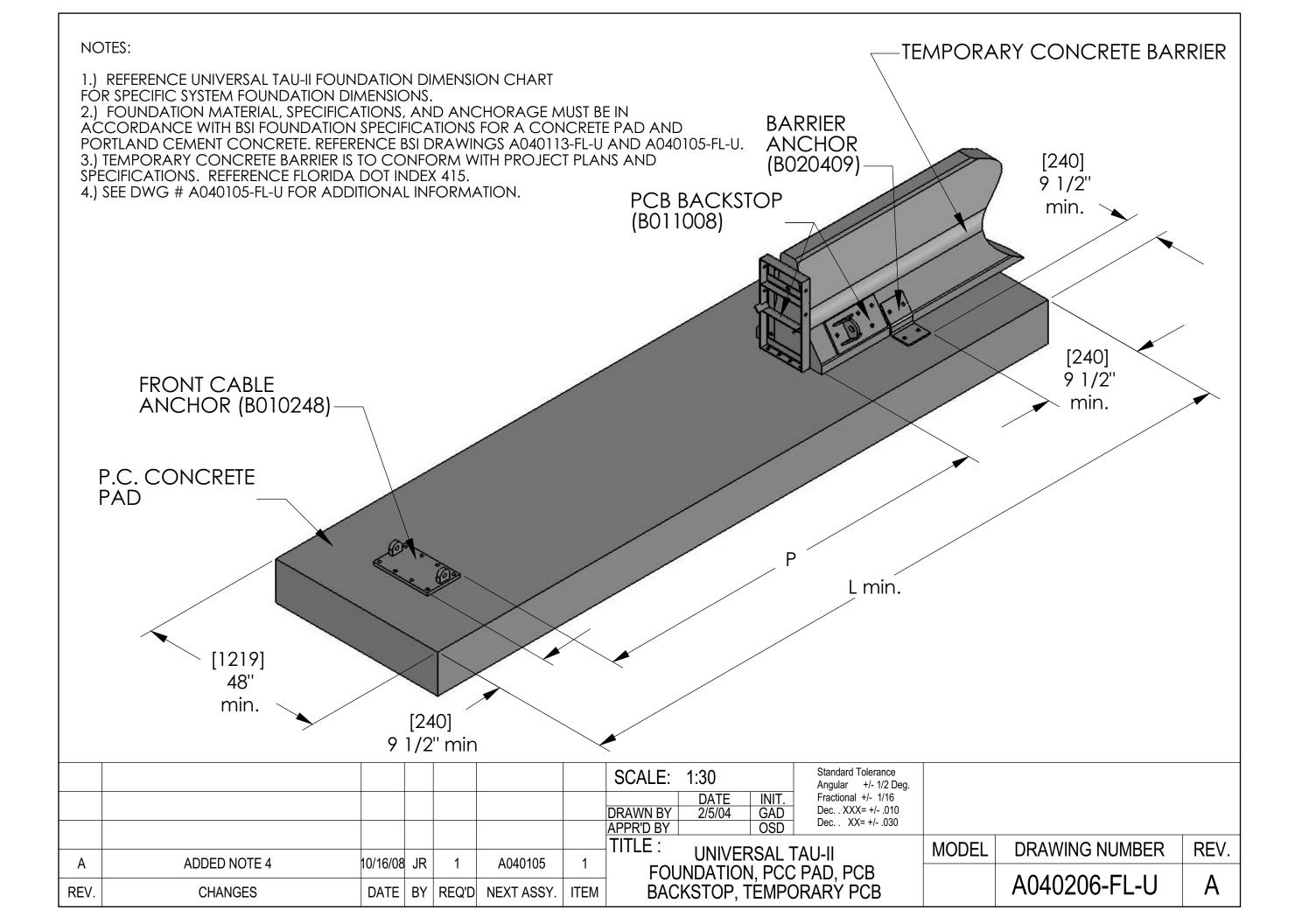


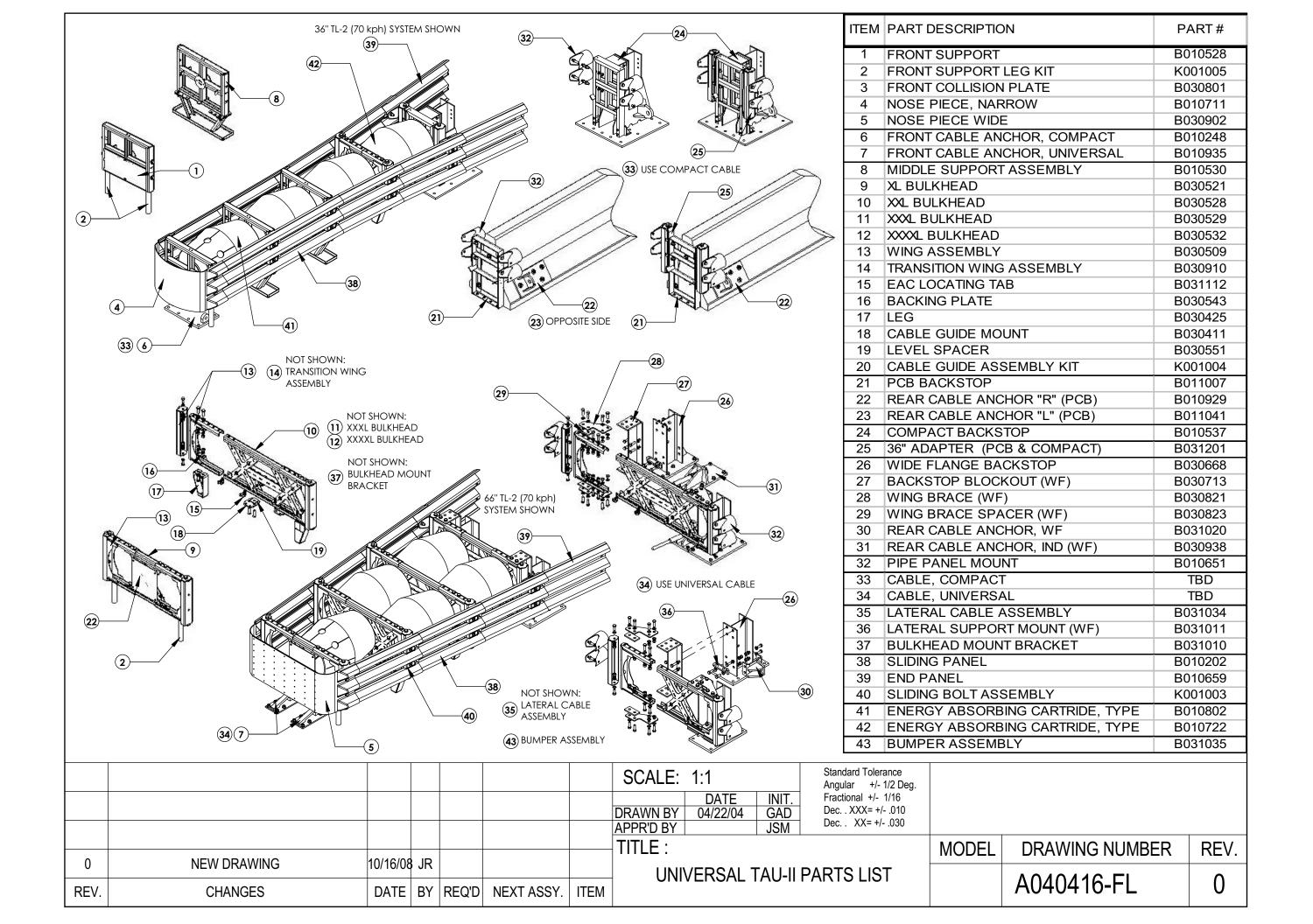
ROCK BASE (FDOT SPECIFICATION 200) OR GRADED AGGREGATE BASE (FDOT SPECIFICATION 204)

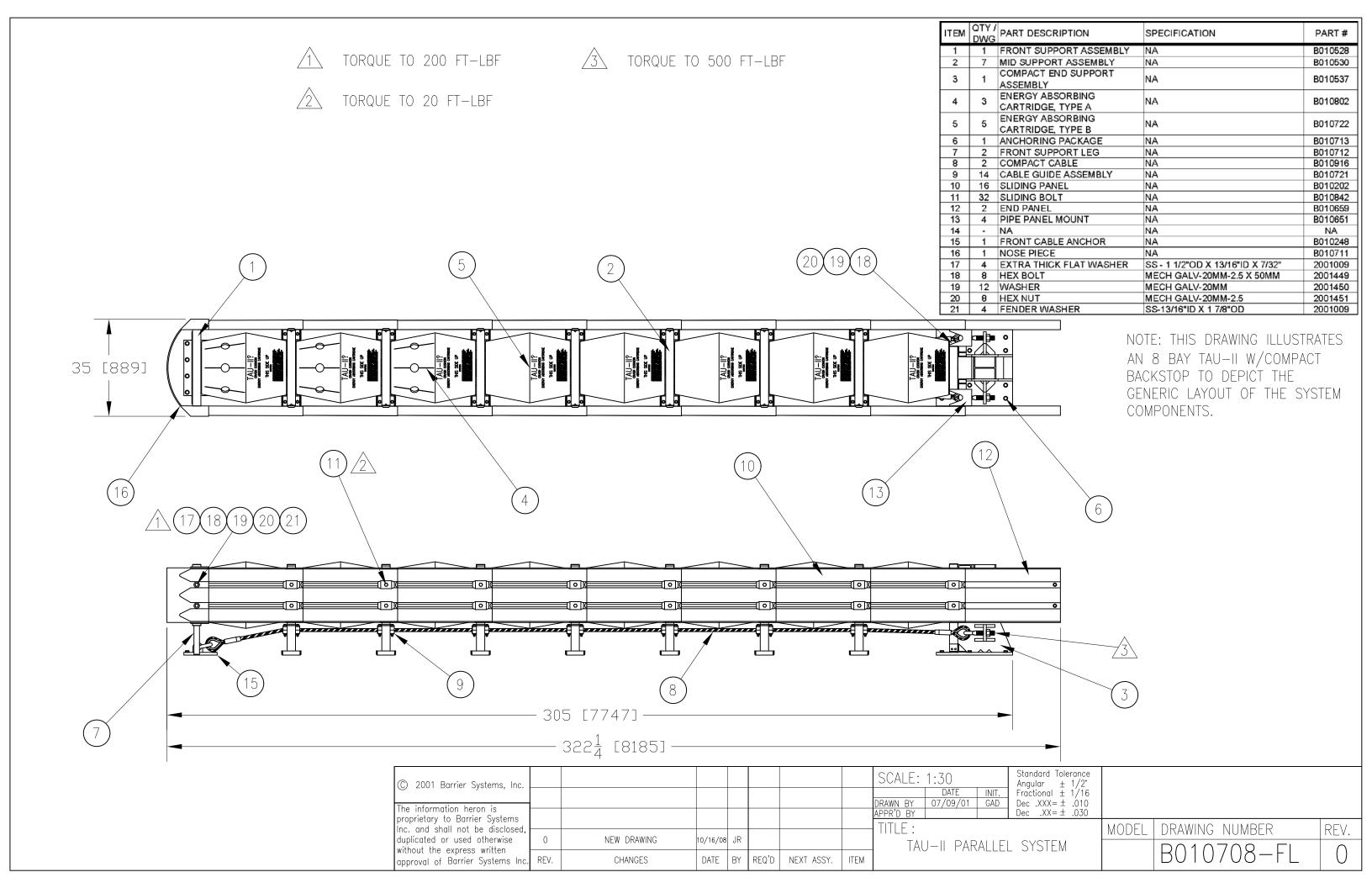
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							DATE INIT. Fractional ± 1/16 DRAWN BY 01/09/04 GAD Dec .XXX= ± .010
							APPR'D BY JSM Dec .XX=± .030
А	ADDED NOTE TO CONCRETE PAD ANCHORAGE	10/21/08	JR				TITLE: MODEL DRAWING NUMBER REV.
REV.	CHANGES	DATE	BY	REQ'D NEXT	T ASSY.	ITEM	FOUNDATION SPECIFICATIONS A040113-FL-U A

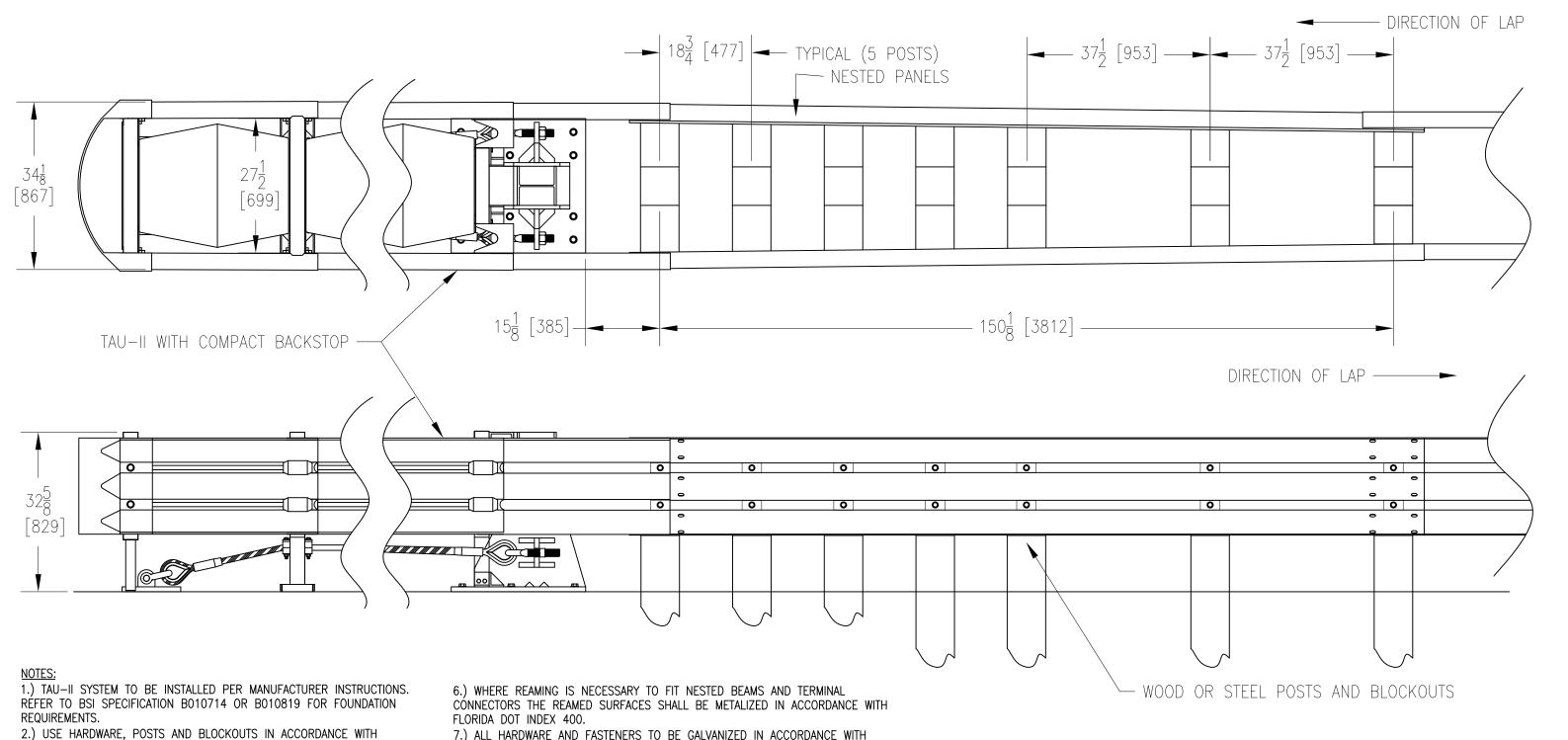








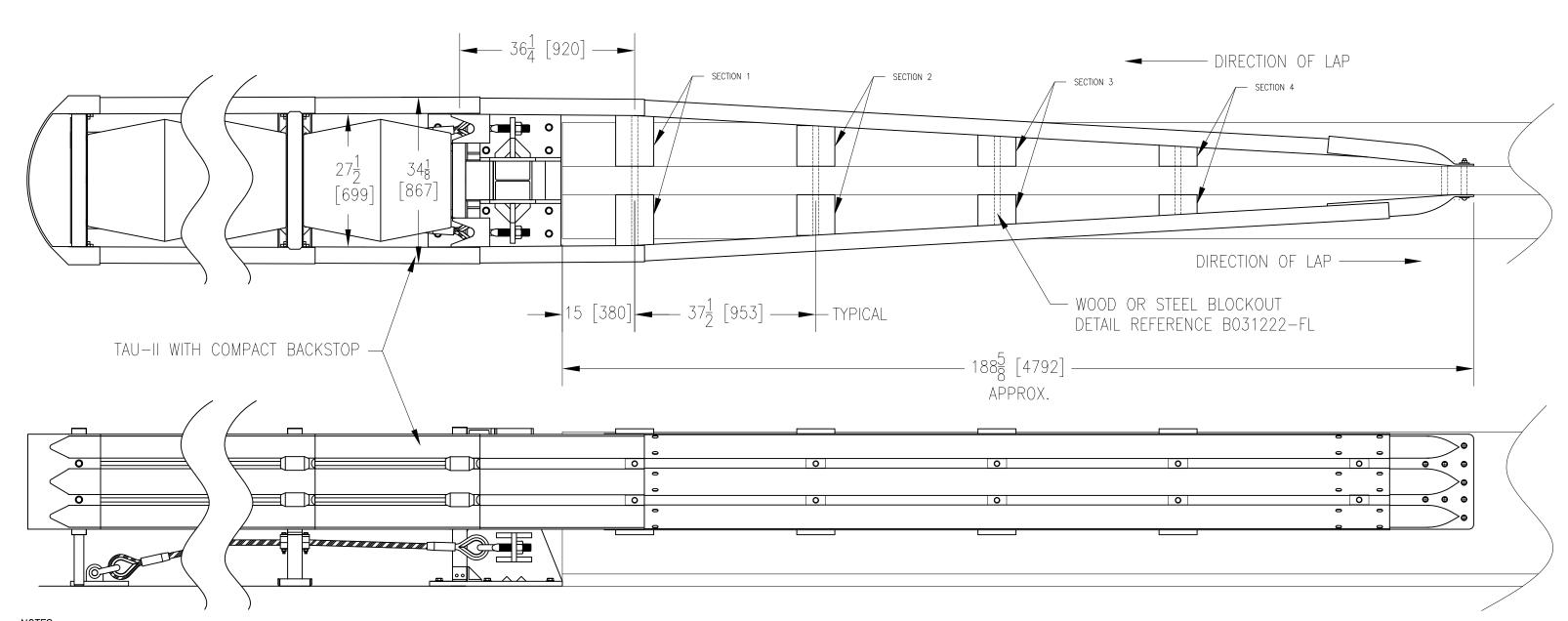




- FLORIDA DOT SPECIFICATIONS. SUPPORT POSTS AND BLOCKOUTS SHALL MEET REQUIREMENTS OF FLORIDA DOT INDEX 400 AND FLORIDA DOT SPECIFICATIONS.
- 3.) 4-SPACE THRIE BEAM GUARDRAIL PER AASHTO HARDWARE SPECIFICATION RTM01. GALVANIZE IN ACCORDANCE WITH FLORIDA DOT SPECIFICATION 967.
- 4.) TWO (2) 4-SPACED THRIE BEAM GUARDRAIL (RTMO4) 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.

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

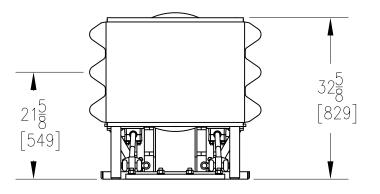
© 2001 Barrier Systems, Inc.								SCALE: 1=20	Standard Tolerance Angular ± 1/2°			
,	С	SEE ECN 00569	1/16/04	GAD				DRAWN BY 07/02/01 RGC	Fractional ± 1/16 Dec .XXX= ± .010			
The information heron is proprietary to Barrier Systems	В	SEE ECN 00368	4/26/02	GAD				APPR'D BY	Dec .XX= ± .030	MODEL		
Inc. and shall not be disclosed, duplicated or used otherwise	А	RELEASE PREP.	11/19/0	1 GAD				TITLE:TAU-II WITH C BACKSTOP, TR		MODEL	DRAWING NUMBER	REV.
without the express written approval of Barrier Systems Inc.	REV.	CHANGES	DATE	BY	REQ'D NEXT A	SSY.	ITEM	1	M GUARDRAII		BU1U/Z4-FL	C



- 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 RTEO1. 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 CÓNNECTORS 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.

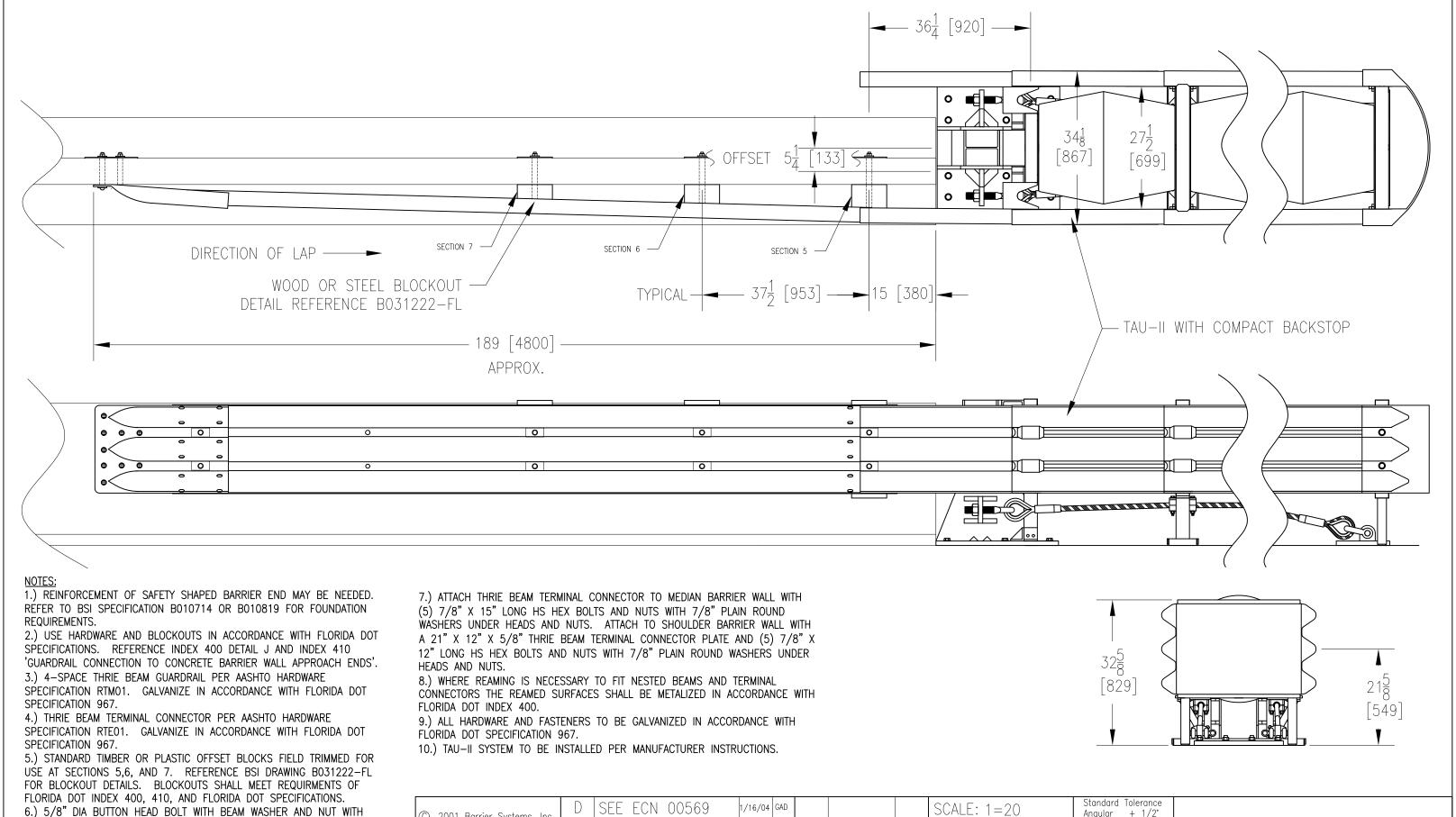
© 2001 Barrier Systems, Inc.	D	SEE ECN 00569	1/15/04	GAD				SCALE: 1=20	Standard Tolera Angular ± 1/
,		SEE ECN 00557	12/29/03	GAD				DRAWN BY 07/02/01 RGC	Fractional \pm 1/Dec .XXX= \pm .0
The information heron is proprietary to Barrier Systems	В	SEE ECN 00368	4/25/02	GAD				APPR'D BY 11/19/01 JSM	\bigcirc Dec $.XX = \pm .0$
Inc. and shall not be disclosed, duplicated or used otherwise	А	RELEASE PREP.	11/19/01	GAD	NA	NA	NA	TITLE:TAU-II WITH C BACKSTOP, TR	
without the express written approval of Barrier Systems Inc.	REV.	CHANGES	DATE	BY	REQ'D	NEXT ASSY.	ITEM	SAFETY SHAPE	



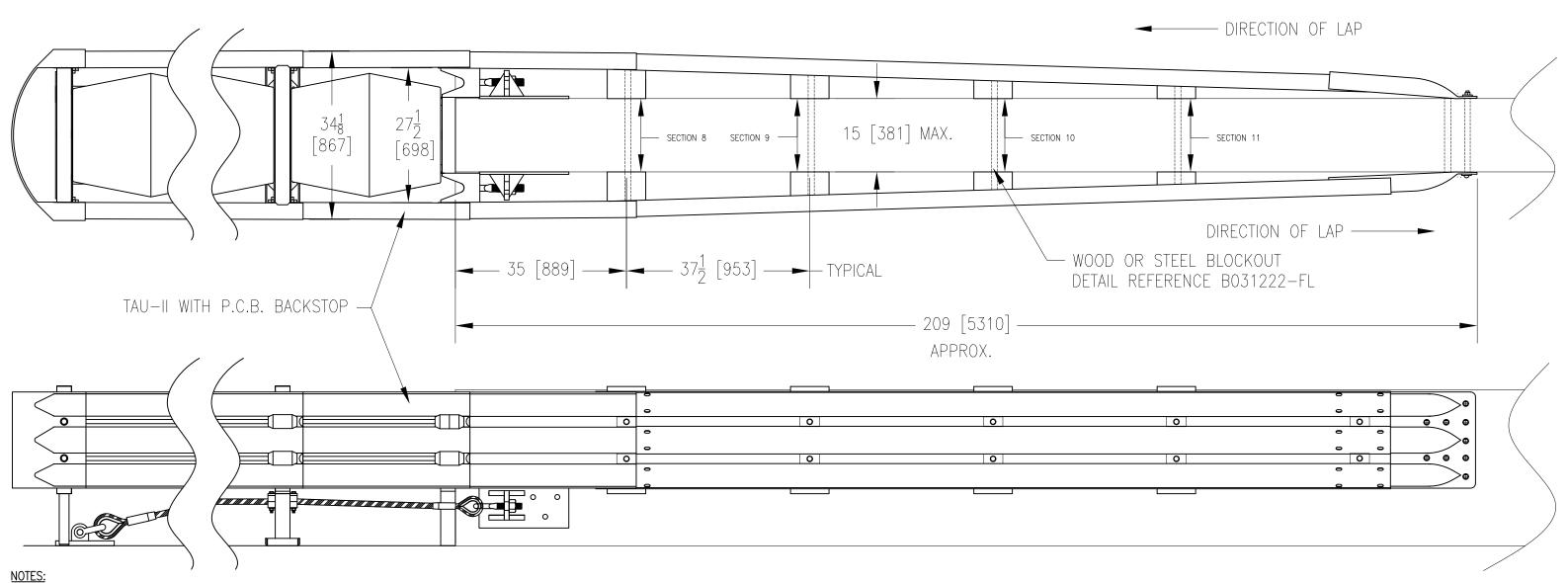
Standard Tolerance

Angular $\pm 1/2^{\circ}$

DATE INIT. Fractional ± 1/16 07/02/01 RGC Dec .XXX= ± .010 Y 11/19/01 JSM Dec .XX= ± .030			
:TAU-II WITH COMPACT	MODEL	DRAWING NUMBER	REV.
BACKSTOP, TRANSITION TO SAFETY SHAPE P.C.B		B010725-FL	D

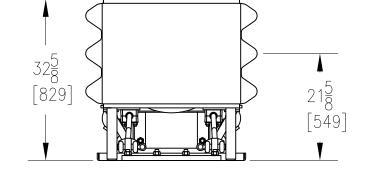


6.) $5/8"$ DIA BUTTON HEAD BOLT WITH BEAM WASHER AND NUT WITH	© 2001 Barrier Systems, Inc.	D SEE ECN 00569	1/16/04 GAD	$SCALE: 1=20$ Angular $\pm 1/2^{\circ}$	
WASHER AND BEAM WASHER. BOLT LENGTH DETERMINED BY SECTION	Service Systems, me.	C SEE ECN 00557	12/29/03 GAD	DATE INIT. Fractional ± 1/16	
WIDTH: $5-14\frac{3}{4}$ ", $6-12\frac{3}{4}$ ", AND $7-10\frac{3}{4}$ ". LENGTHS MAY VARY WITH	The information heron is			DRAWN BY 07/02/01 RGC Dec .XXX= ± .010 ΔΡΡΡ'D BY 11/20/01 JSM Dec .XX= ± .030	
2 · · · · · · · · · · · · · · · · · · ·	proprietary to Barrier Systems		4/26/02 GAD	/// / / / / / / / / / / / / / / / / /	TMODEL TODAWING NUMBER TOTAL
3/4 DIA HOLES IS REQUIRED. HOLES DRILLED THROUGH CONCRETE	Inc. and shall not be disclosed, duplicated or used otherwise	A RELEASE PREP.	11/19/01 GAD NA NA	TITLE: TAU-II WITH COMPACT	MODEL DRAWING NUMBER REV.
BARRIER ARE 3/4" DIA.	without the express written		101	BACKSTOP, TRANSITION TO	R010726_FL p
	approval of Barrier Systems Inc.	. REV. CHANGES	DATE BY REQ'D NEXT ASSY.	ITEM SAFETY SHAPE P.C.B, OFFSET	

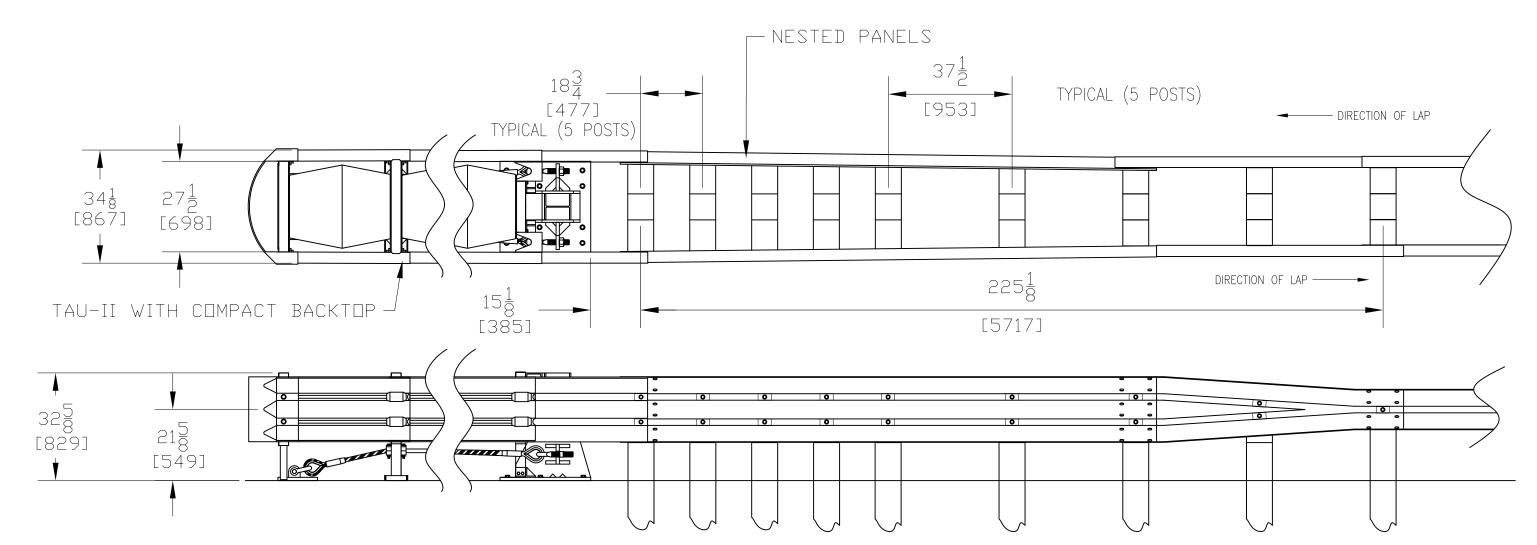


- 1.) REINFORCEMENT OF SAFETY SHAPED BARRIER END MAY BE NEEDED. REFER TO BSI SPECIFICATION B011044 OR B011045 FOR FOUNDATION REQUIREMENTS.
- 2.) USE HARDWARE AND BLOCKOUTS IN ACCORDANCE WITH FLORIDA DOT SPECIFICATIONS. REFERENCE INDEX 400 DETAIL J AND INDEX 410 'GUARDRAIL CONNECTION TO CONCRETE BARRIER 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 RTEO1. 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: $8-28\frac{1}{2}$ ", 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 CÓNNECTORS 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.



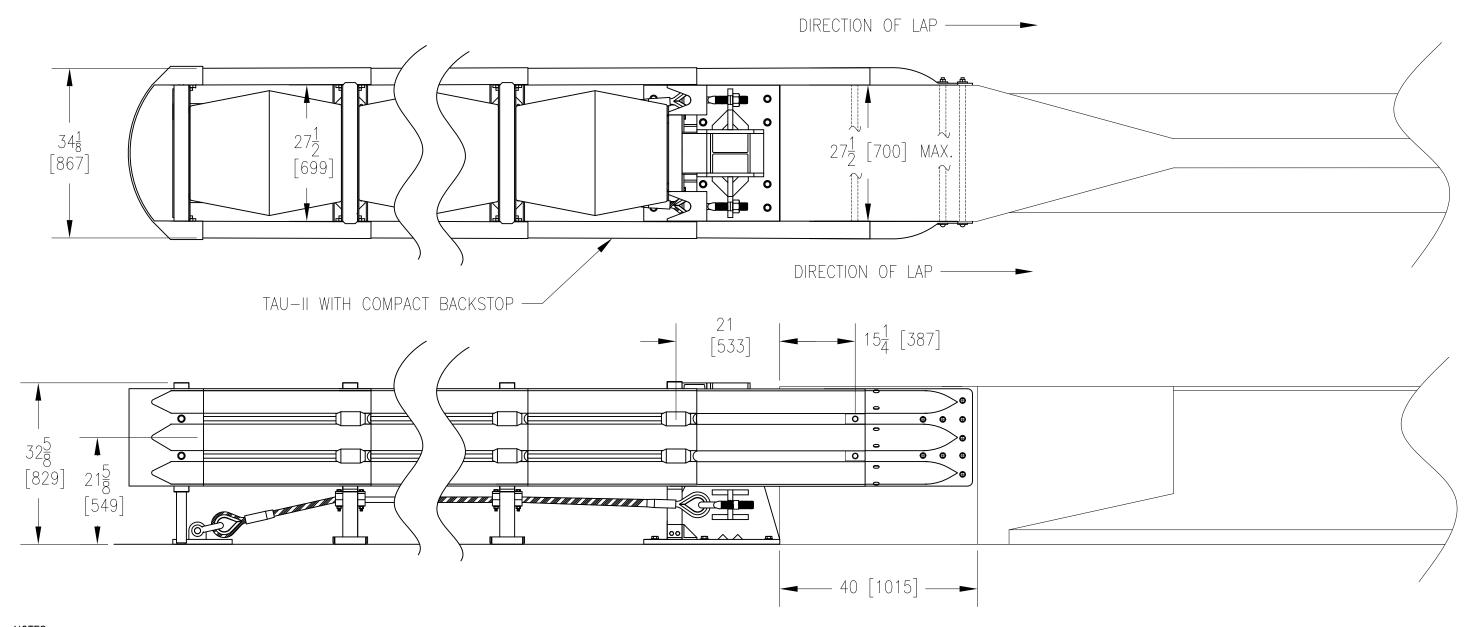
© 2001 Barrier Systems, Inc.	D	SEE ECN 00569	1/16/04 GAD				SCALE: 1=20	Standard Iolerance Angular ± 1/2°			
	С	SEE ECN 00557	12/29/03 GAD				DRAWN BY 07/02/01 RGC	Fractional ± 1/16 Dec .XXX= ± .010			
The information heron is proprietary to Barrier Systems	В	SEE ECN 00368	4/25/02 GAD				APPR'D BY 11/19/01 JSM		MODEL		
Inc. and shall not be disclosed, duplicated or used otherwise	Α	RELEASE PREP.	11/19/01 GAD	NA	NA	NA	TITLE:TAU-II WITH P TRANSITION TO		MODEL	DRAWING NUMBER	REV.
without the express written approval of Barrier Systems Inc.	REV.	CHANGES	DATE BY	REQ'D	NEXT ASSY.	ITEM	CONCRETE			B010/2/-FL	



- 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 (RTMO4) 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.

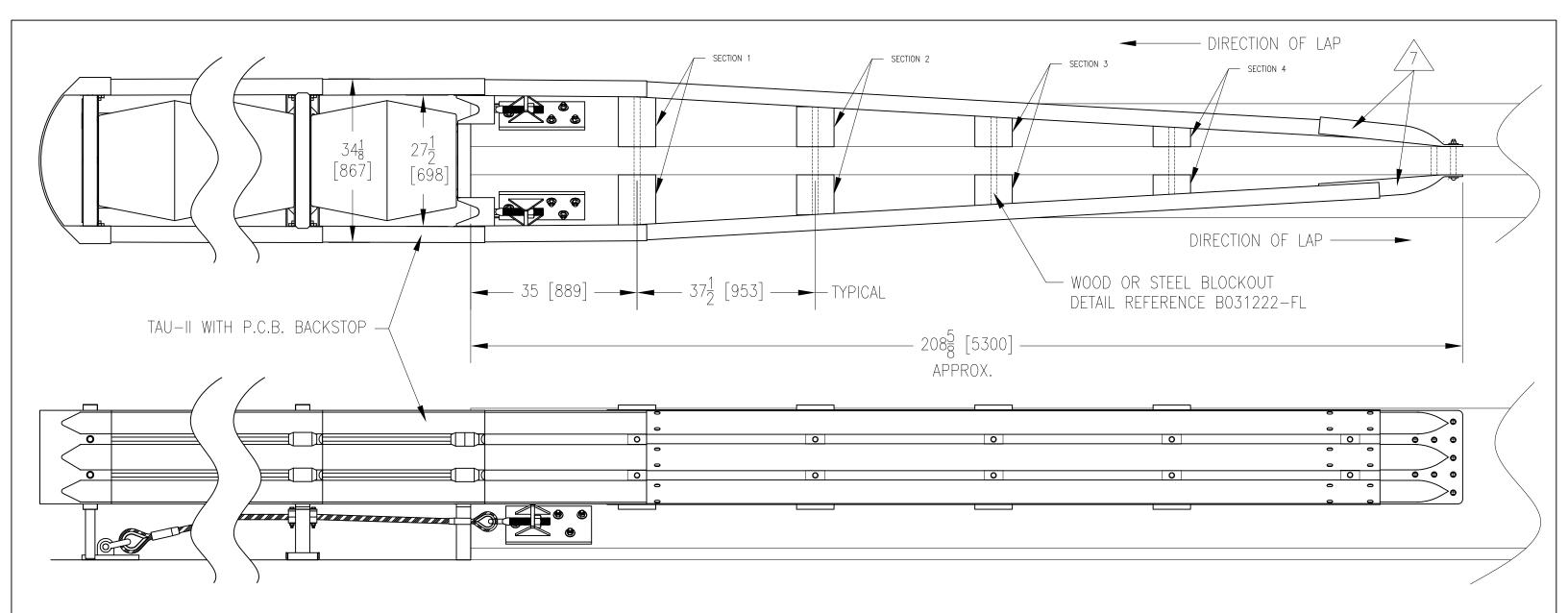
- 8.) WHERE REAMING IS NECESSARY TO FIT NESTED BEAMS AND TERMINAL CONNECTORS THE REAMED SURFACES SHALL BE METALIZED IN ACCORDANCE WITH FLORIDA DOT INDEX 400.
- 9.) ALL HARDWARE AND FASTENERS TO BE GALVANIZED IN ACCORDANCE WITH FLORIDA DOT SPECIFICATION 967.

© 2001 Barrier Systems, Inc.								SCALE: 1:30 Standard Tolerance Angular ± 1/2°			
·	С	SEE ECN 00569	1/16/04	GAD				DATE INIT. Fractional ± 1/16 DRAWN BY 09/05/01 RGC Dec .XXX= ± .010			
The information heron is proprietary to Barrier Systems	В	SEE ECN 00368	4/26/02	GAD				APPR'D BY 11/20/01 JSM Dec .XX=± .030 TITLE:TAU-II WITH COMPACT	MODEL	DRAWING NUMBER	TDEV
Inc. and shall not be disclosed, duplicated or used otherwise	А	RELEASE PREP.	11/20/01	GAD				BACKSTOP, TRANSITION	MODEL	DO10700 FI	REV.
without the express written approval of Barrier Systems Inc.	REV.	CHANGES	DATE	BY	REQ'D	NEXT ASSY.	ITEM	TO W-BEAM		B010/28-FF	



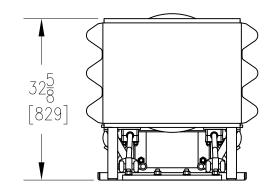
- 1.) REINFORCEMENT OF SAFETY SHAPED BARRIER END MAY BE NEEDED. REFER TO BSI SPECIFICATION B010714 OR B010819 FOR FOUNDATION REQUIREMENTS.
- 2.) USE HARDWARE IN ACCORDANCE WITH FLORIDA DOT SPECIFICATIONS. REFERENCE INDEX 400 DETAIL J AND INDEX 410 'GUARDRAIL CONNECTION TO CONCRETE BARRIER WALL APPROACH 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 28_2^1 " 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.

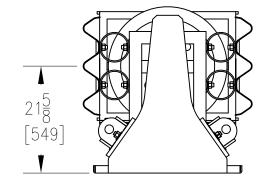
© 2001 Barrier Systems, Inc.	D	SEE ECN 00569	1/16/04	GAD			SCALE: 1=20 Standard Tolerand Angular ± 1/2			
		SEE ECN 00557	12/29/03	GAD			DATE INIT. Fractional ± 1/1)		
The information heron is proprietary to Barrier Systems Inc. and shall not be disclosed,	В	SEE ECN 00368	4/26/02	GAD			APPR'D BY 11/20/01 JSM Dec .XX=± .03 TITLE:TAU-II WITH COMPACT	MODEL	DRAWING NUMBER	
duplicated or used otherwise without the express written	А	RELEASE PREP.	11/19/01	GAD	NA NA	NA	BACKSTOP, TRANSITION TO			REV.
approval of Barrier Systems Inc.	REV.	CHANGES	DATE	BY	REQ'D NEXT ASSY.	ITEM	CONCRETE END SHOE		B010806-FL	



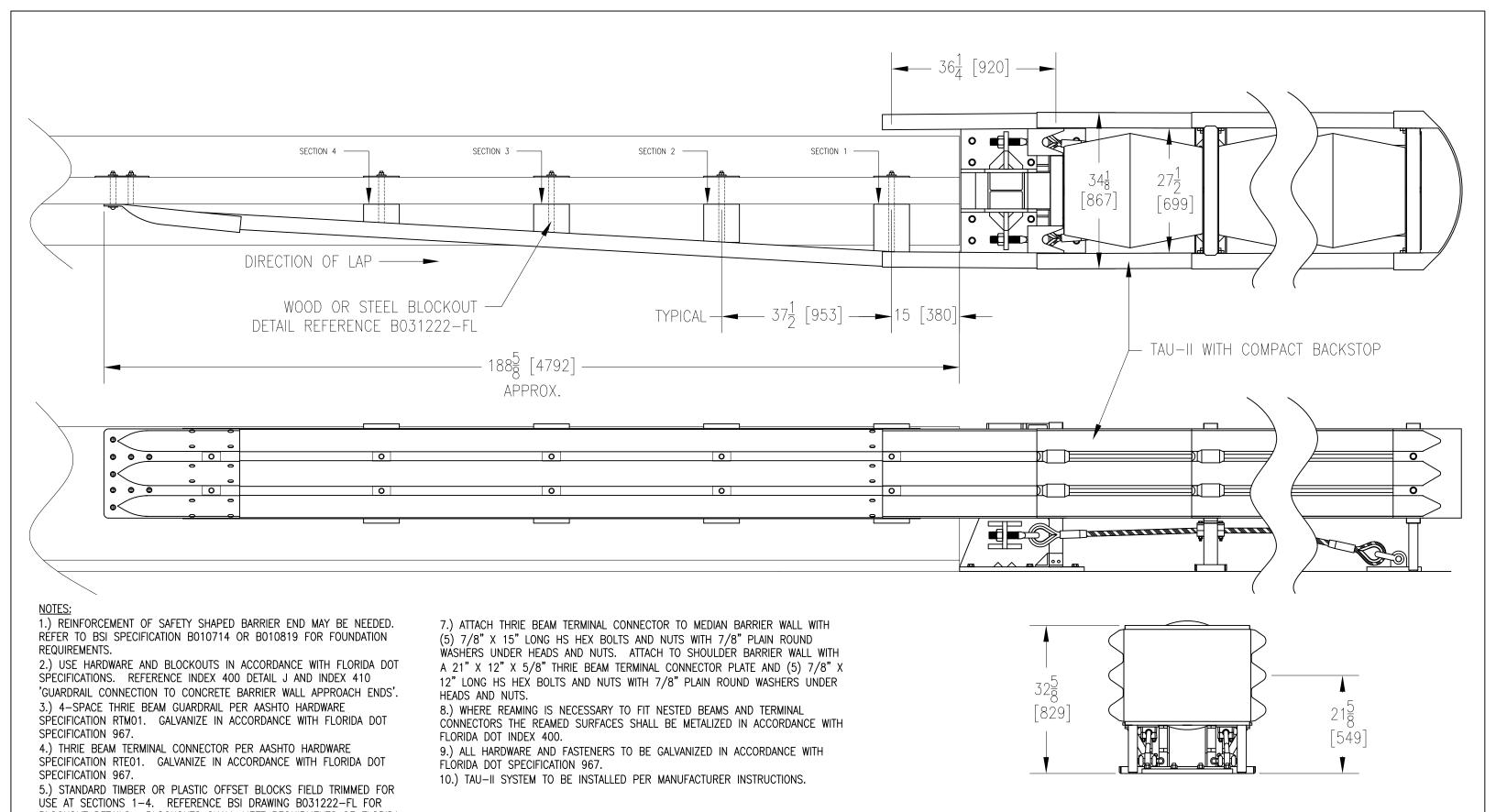
- 1.) REINFORCEMENT OF SAFETY SHAPED BARRIER END MAY BE NEEDED. REFER TO BSI SPECIFICATION B011044 OR B011045 FOR FOUNDATION REQUIREMENTS.
- 2.) USE HARDWARE AND BLOCKOUTS IN ACCORDANCE WITH FLORIDA DOT SPECIFICATIONS. REFERENCE INDEX 400 DETAIL J AND INDEX 410 'GUARDRAIL CONNECTION TO CONCRETE BARRIER 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.





© 2001 Barrier Systems, Inc.	D	SEE ECN 00569	1/16/04 GAD				SCALE: 1=20 And	andard Tolerance ngular ± 1/2°			
·	С	SEE ECN 00557	12/29/03 GAD				DRAWN BY 07/02/01 RGC Dec	actional ± 1/16 ec .XXX= ± .010			
The information heron is proprietary to Barrier Systems	В	SEE ECN 00368	4/25/02 GAD				APPR'D BY 11/19/01 JSM Dec	0.00×0.000	MODEL		TDEV
Inc. and shall not be disclosed, duplicated or used otherwise	А	RELEASE PREP.	11/19/01 GAD	NA	NA	NA	TITLE:TAU-II WITH PCB TRANSITION TO SA		MODEL	DRAWING NUMBER	REV.
without the express written approval of Barrier Systems Inc.	REV.	CHANGES	DATE BY	REQ'D	NEXT ASSY.	ITEM	SHAPE P.C.B	., (1		B010809-FL	



BLOCKOUT DETAILS. BLOCKOUTS SHALL MEET REQUIRMENTS OF FLORIDA									
DOT INDEX 400, 410, AND FLORIDA DOT SPECIFICATIONS.		D	SEE ECN 00569	1/16/04 GAD				SCALE: 1=20	Standard Tolerance
6.) 5/8" DIA BUTTON HEAD BOLT WITH BEAM WASHER AND NUT WITH WASHER AND BEAM WASHER. BOLT LENGTH DETERMINED BY SECTION	© 2001 Barrier Systems, Inc.			, ,				DATE INIT	Angular ± 1/2° Fractional ± 1/16
WIDTH: 1–20", 2–18", 3–16", AND 4–14". LENGTHS MAY VARY WITH	The information heron is		SEE ECN 00557	12/29/03 GAD				DRAWN BY 07/02/01 RGC	Dec $.XXX = \pm .010$
DIFFERENT BARRIER SHAPES. A 12" X 12" X 1/4" BACK-UP PLATE WITH	proprietary to Barrier Systems	В	SEE ECN 00368	4/25/02 GAD				/	
3/4" DIA HOLES IS REQUIRED. HOLES DRILLED THROUGH CONCRETE	Inc. and shall not be disclosed, duplicated or used otherwise	Λ	RFLFASE PRFP.	11/19/01 GAD	NA	NIA	NIA	TITLE:TAU-II WITH CO	
BARRIER ARE 3/4" DIA.	without the express written	A	NELLASE FREF.	11/19/01000	INA	INA	INA	BACKSTOP, TRA	ANSITION TO

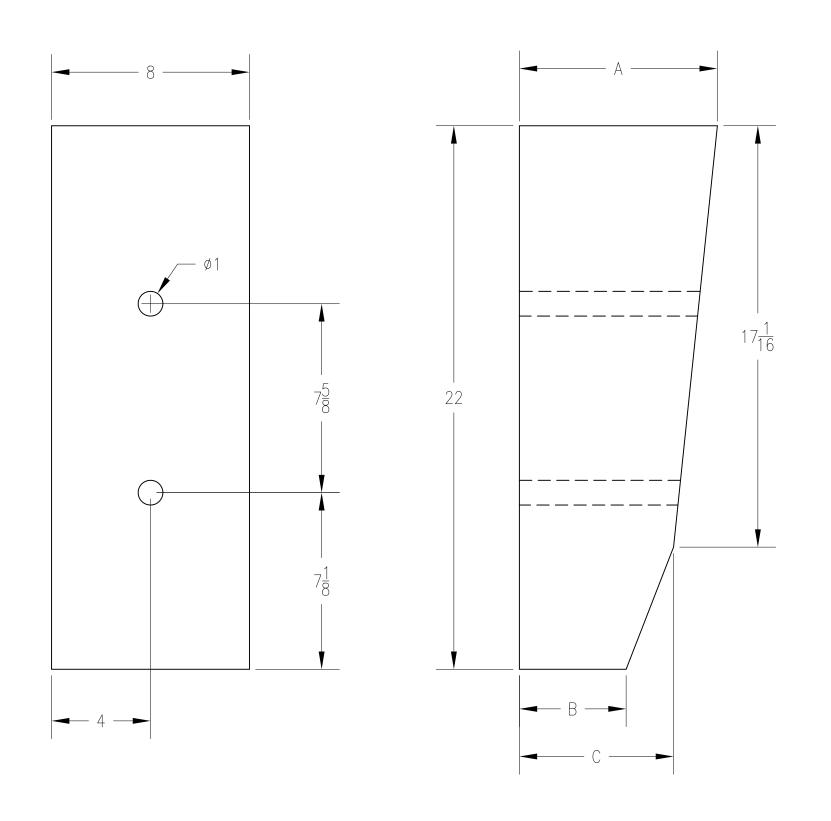
REV.

CHANGES

approval of Barrier Systems Inc.

12/29/03	GAD				DRAWN BY	DATE 07/02/01	INIT. RGC	Fractional \pm 1/16 Dec .XXX= \pm .010			
4/25/02	GAD				APPR'D BY	11/20/01	JSM	Dec $.XX = \pm .030$			
7/ 23/ 02	0,10				TITLET	A I I II _ \//I	ти с	OMPACT	MODEL	DRAWING NUMBER	DEV/
11/19/01	GAD	NA	NA	l _{NA}					MODEL	DIAWING NOWIDEN	ΓĹV.
11/13/01	O/ ID	IN/A	IVA	INA		BACKSTOF	P. TR	ANSITION TO			
DATE	BY	REQ'D	NEXT ASSY.	ITEM	SAFET		,	.B, ONE SIDE		BOIDSII-FL	D

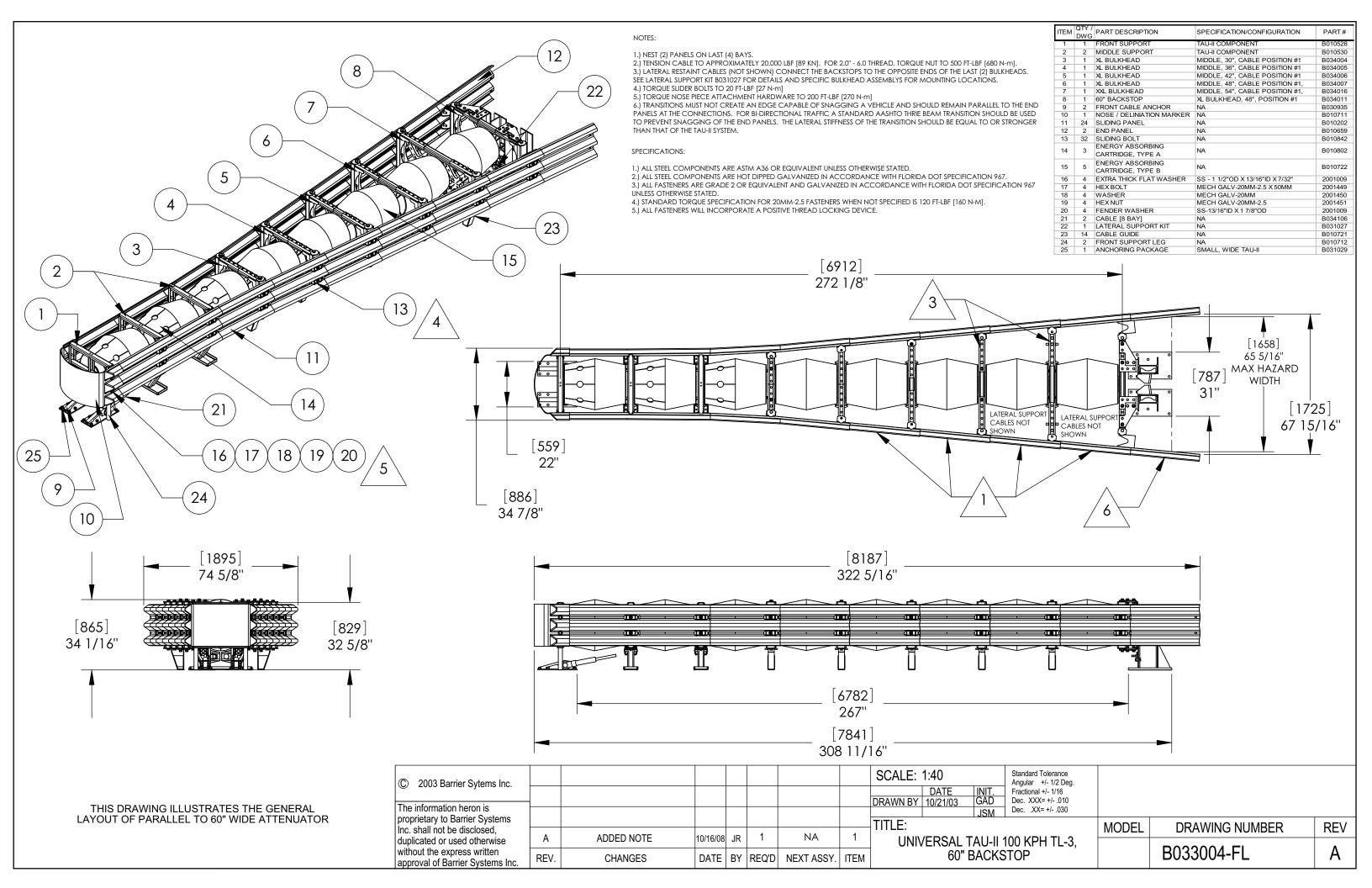
TABLE
TABLE No. OF BAYS PAD LENGTH, L PICKUP POINTS, X
L (SEE TABLE) L (SEE
© 2001 Barrier Systems, Inc. The information heron is proprietary to Barrier Systems Inc. and shall not be disclosed, duplicated or used otherwise without the express written approval of Barrier Systems Inc. EV. CHANGED TABLE & TITLE 0/21/08 JR SCALE: 1=20 Standard Tolerance Angular ± 1/26 DRAWN BY 05/22/02 GAD DEC .XXX ± .010 Dec .XXX ± .010 Dec .XXX ± .010 Dec .XXX ± .030 TITLE: PRE-CAST PADS, REINFORCED P.C. CONCRETE WITH COMPACT BACKSTOP BO20516—FL C

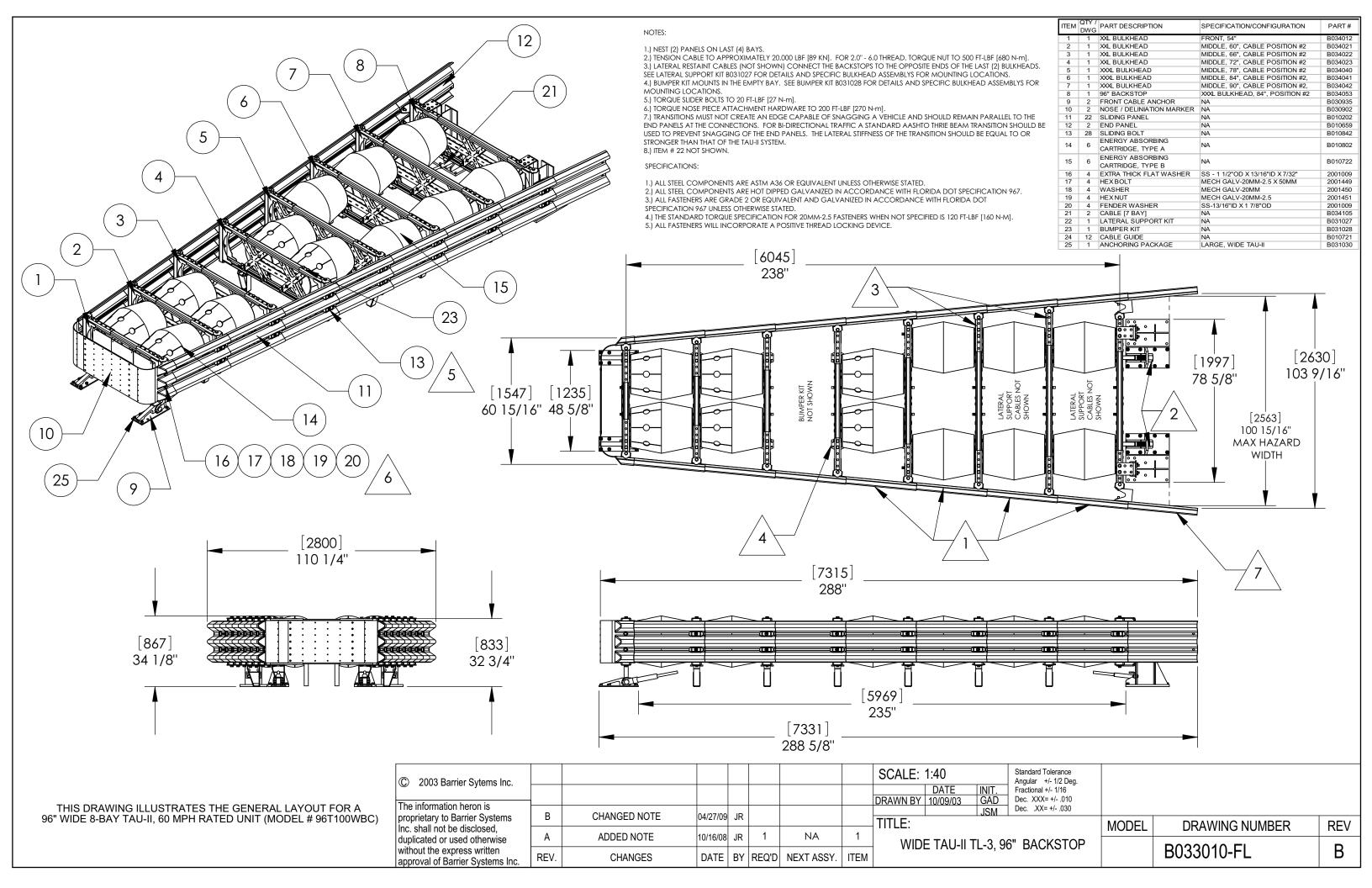


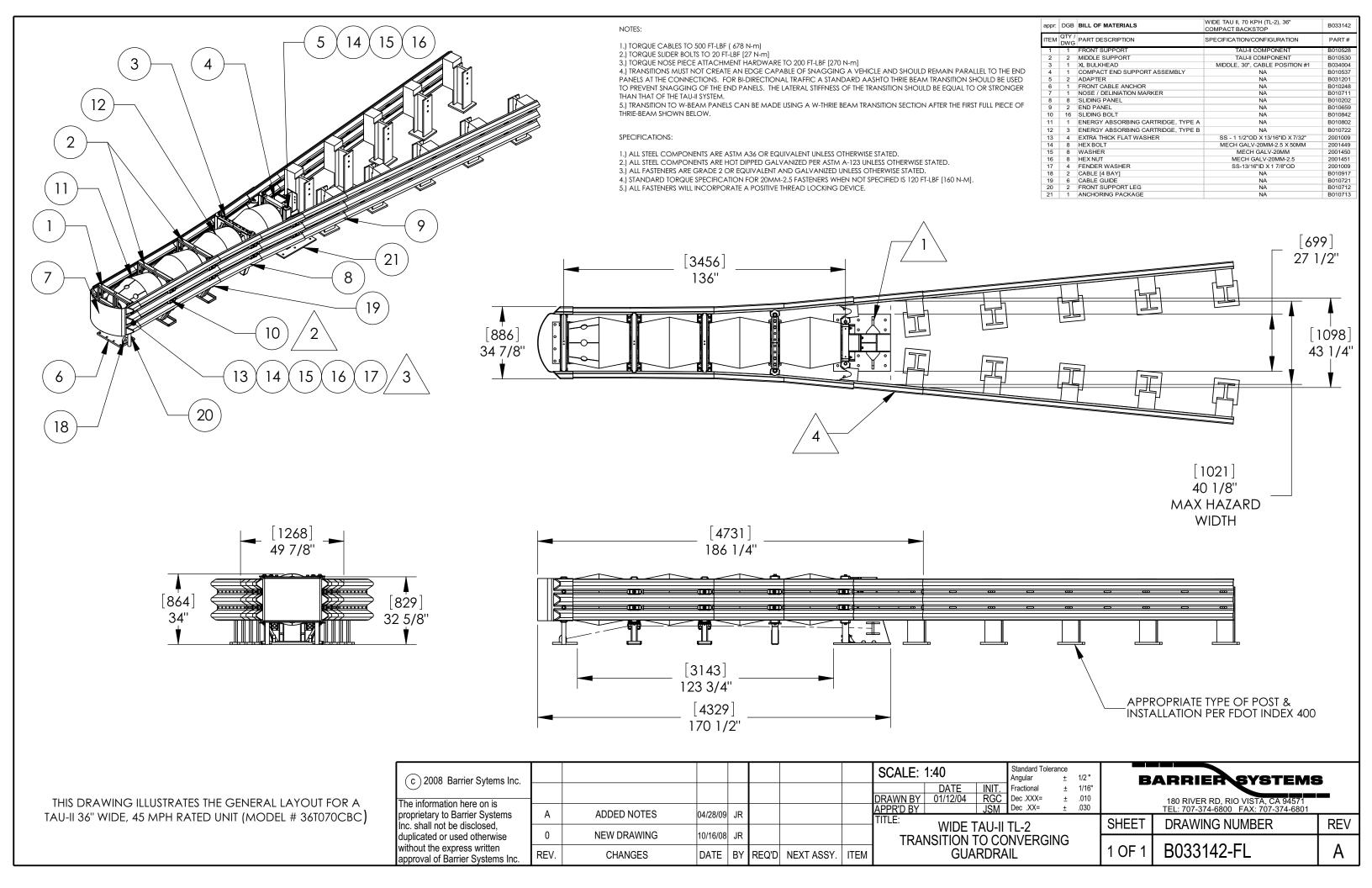
	TRANSITION BLO	OCKOUT DIMENSIONS I	n [mm]
SECTION	A	В	С
1	10 3/4 [273]	7 1/16 [180]	9 [230]
2	8 5/8 [220]	4 15/16 [125]	6 7/8 [175]
3	6 1/2 [165]	2 13/16 [72]	4 3/4 [120]
4	4 3/8 [112]	11/16 [18]	2 5/8 [67]
5	5 1/2 [140]	1 13/16 [46]	3 3/4 [95]
6	3 3/8 [86]	NA	1 5/8 [42]
7	1 1/4 [32]	NA	3/4 [20]
8	5 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]

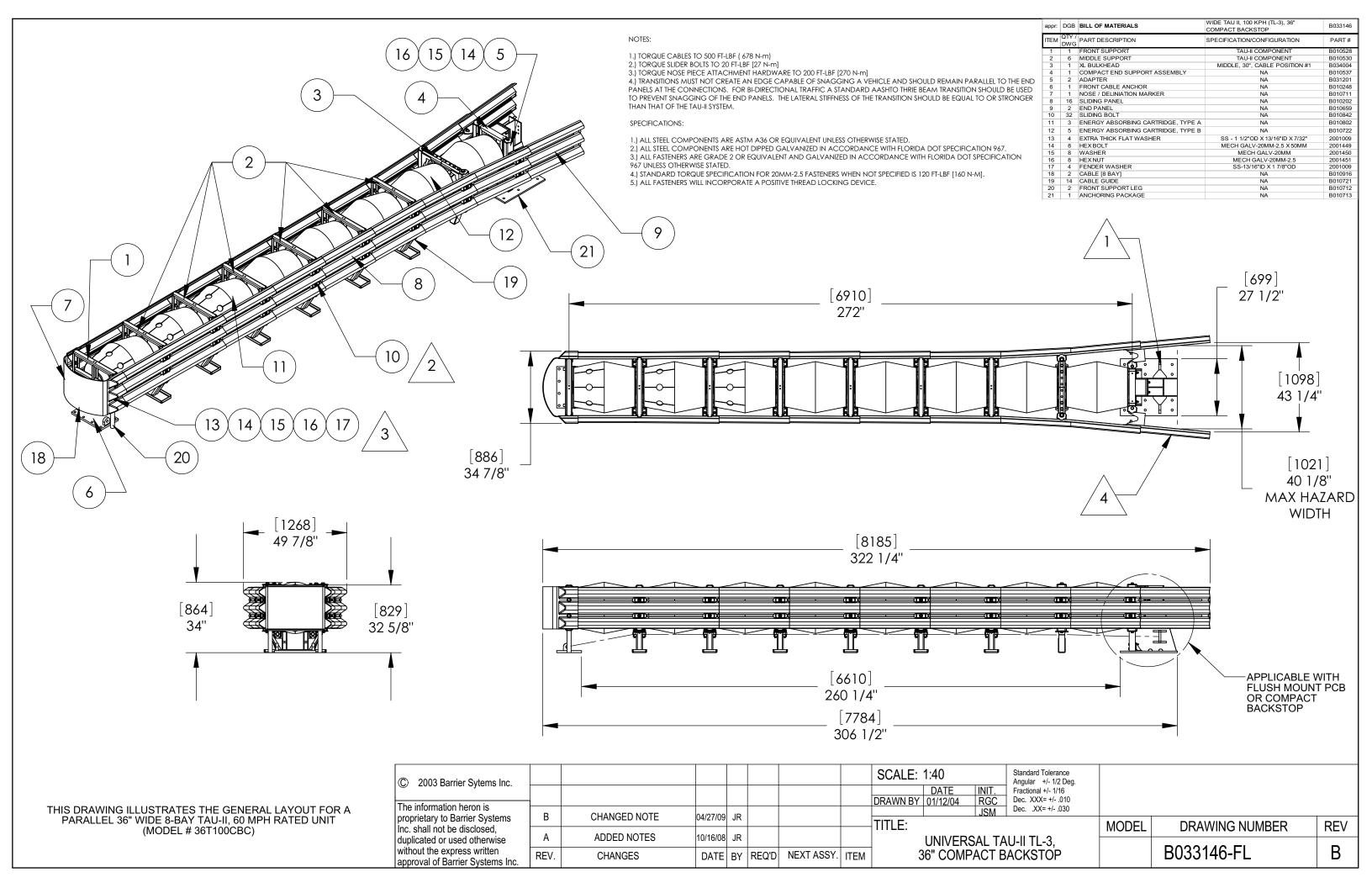
- 1.) BLOCKOUTS SHALL MEET THE REQUIREMENTS OF FLORIDA DOT INDEX 400 AND FLORIDA DOT SPECIFICATIONS. REFERENCE INDEX 400, DETAIL J AND INDEX 410 'GUARDRAIL CONNECTIONS TO CONCRETE BARRIER WALL APPROACH ENDS.
- 2.) BSI DRAWING REFERENCES: B010811-FL, B010809-FL, B010725-FL, B010726-FL, & B010727-FL
- 3.) THRIE BEAM OFFSET BLOCKS FIELD TRIMMED FOR USE AT SECTIONS 1 THROUGH 11.

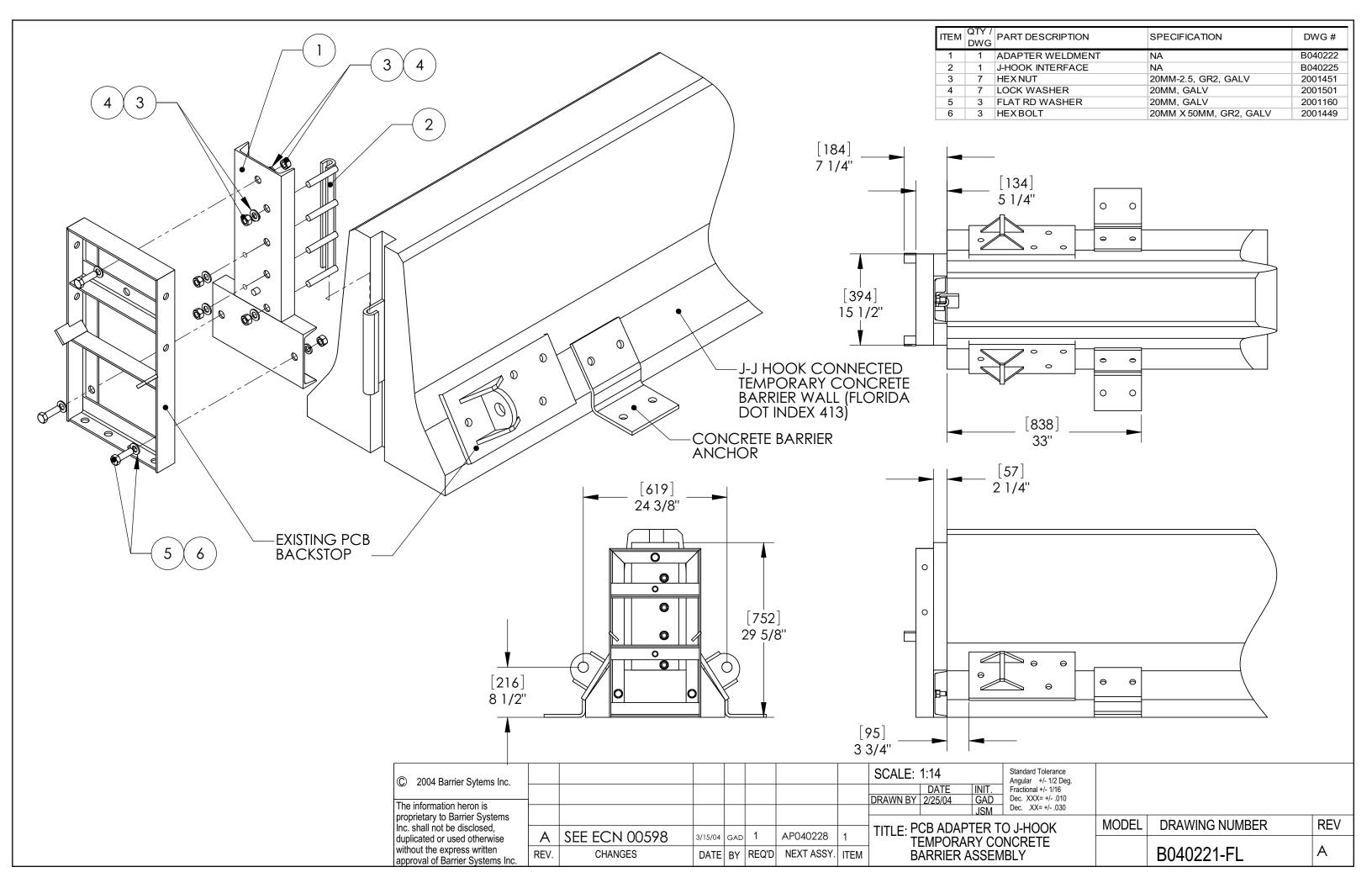
© 2004 Barrier Systems, Inc.								SCALE: QUARTER Standard Tolerance Angular ± 1/2°			
The information heron is								DATE INIT. Fractional ± 1/16			
proprietary to Barrier Systems Inc. and shall not be disclosed, duplicated or used otherwise	Λ	 SEE ECN 00569	1/16/04	GAD				TITLE:TRANSITION BLOCKOUT	MODEL	DRAWING NUMBER	REV.
without the express written approval of Barrier Systems Inc.	REV.				REQ'D	NEXT ASSY.	ITEM			B031222-FL	A

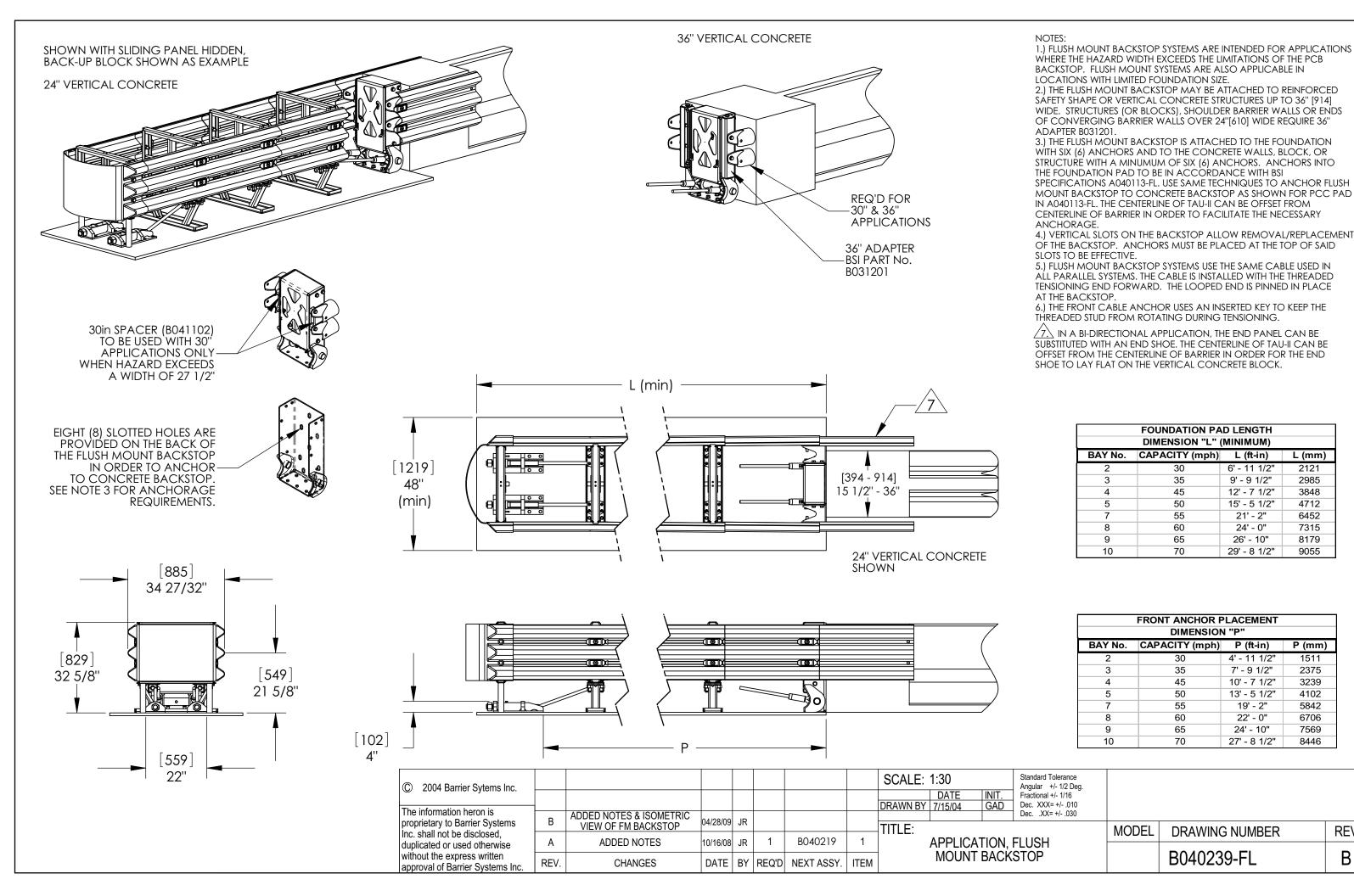












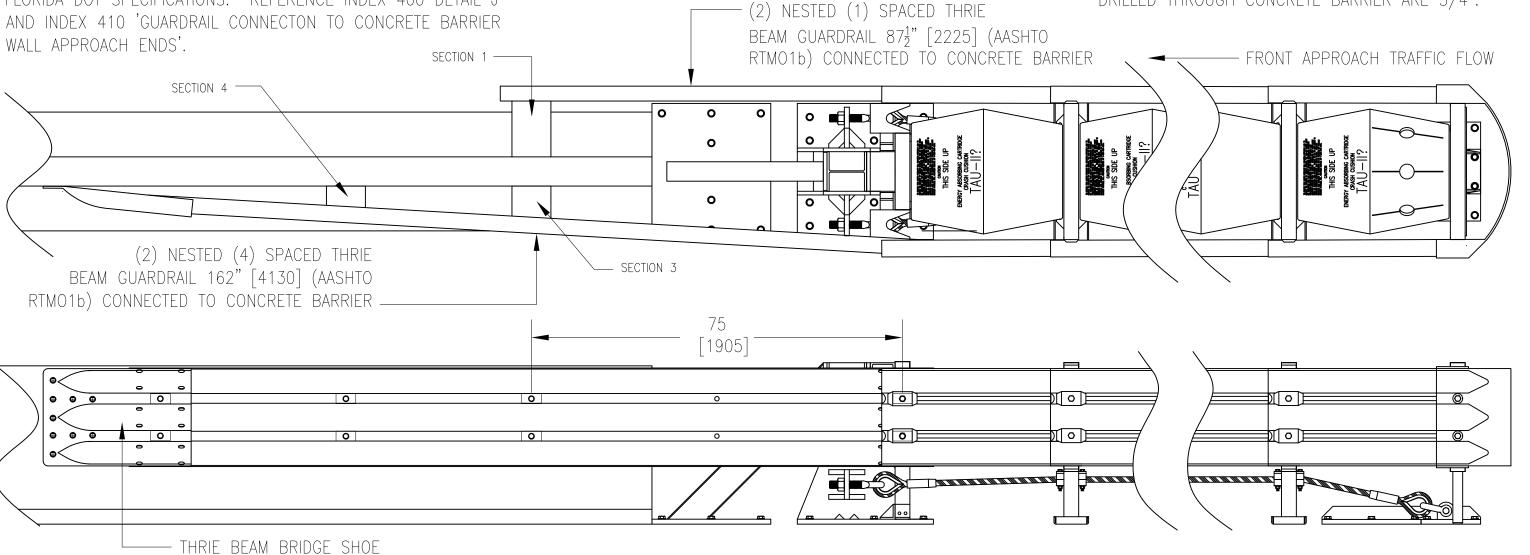
L (mm)

P (mm)

REV

В

- 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
- 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".

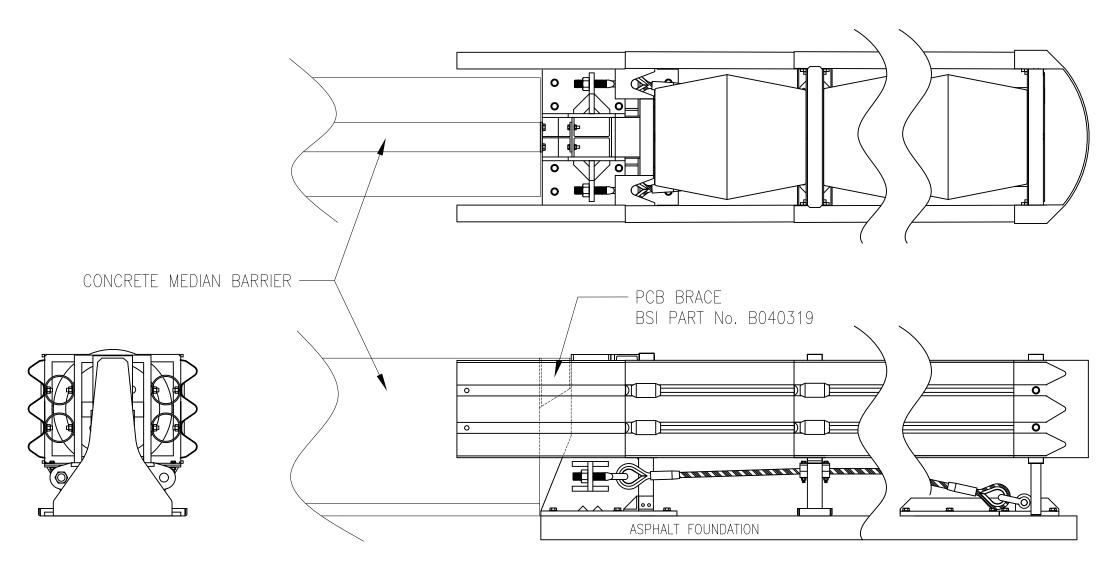


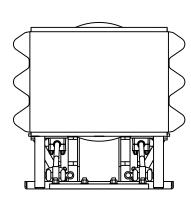
5.) THRIE BEAM GUARDRAIL AND TERMINAL CONNECTOR TO BE GALVANIZED IN ACCORDANCE WITH FLORIDA DOT SPECIFICATION 967.

PER AASHTO HARDWARE SPECIFICATION RTE01b

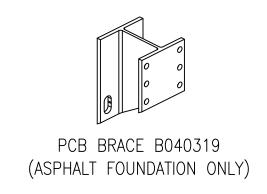
- 6.) WHERE REAMING IS NECESSARY TO FIT NESTED BÉAMS AND TERMINAL CONNECTORS THE REAMED SURFACES SHALL BE METALIZED IN ACCORDANCE WITH FLORIDA DOT INDEX 400.
- 7.) ALL HARDWARE AND FASTENERS TO BE GALVANIZED IN ACCORDANCE WITH FLORIDA DOT SPECIFICATION 967.
- 8.) TRANSITION SHOWN IS FOR BI-DIRECTIONAL 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.

	© 2004 Barrier Systems, Inc.								SCALE: 1=20 Standard Tolerance Angular ± 1/2*	
	,								DATE INIT. Fractional ± 1/16 RAWN BY 03/1/04 GAD Dec .XXX= ± .010	
	The information heron is proprietary to Barrier Systems								PPR'D BY 03/1/04 OSD Dec .XX= ± .030	
⁾	Inc. and shall not be disclosed, duplicated or used otherwise	Λ	FLORIDA DOT	3/15/04	CAD				TITLE:TRANSITION, TAU-II WITH MODEL DRAWING NUM	BER REV.
	without the express written		FLORIDA DOI	5/ 15/ 01	GAD				COMPACT BACKSTOP,	
	approval of Barrier Systems Inc.	REV.	CHANGES	DATE	BY	REQ'D	NEXT ASSY.	ITEM	ASPHALT FOUNDATION B04030	





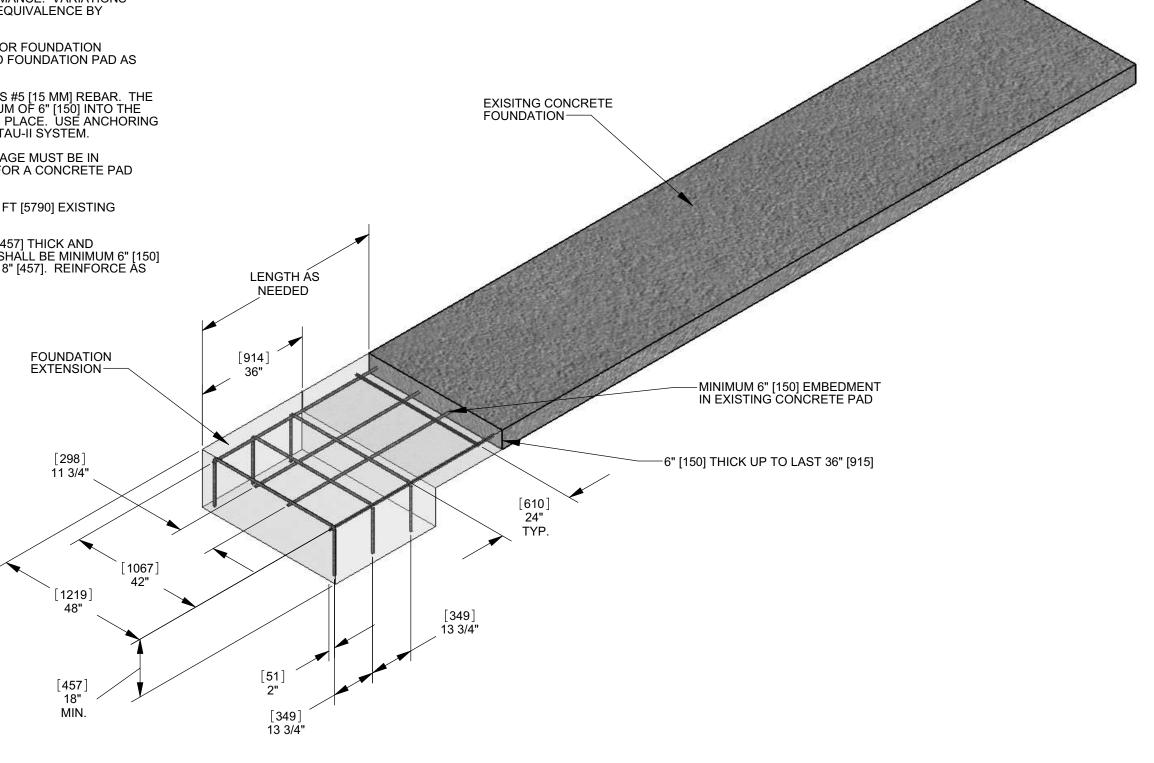
- 1.) CONCRETE MEDIAN BARRIER TO BE IN ACCORDANCE WITH FLORIDA DOT INDEX 410 OR 415. IF THE MEDIAN BARRIER IS TEMPORARY IT MUST BE ANCHORED IN ACCORDANCE WITH BSI SPECIFICATION A040206-FL, B020413-FL, A040113-FL, AND B020411-FL.
- 2.) ALL HARDWARE AND FASTENERS TO BE GALVANIZED IN ACCORDANCE WITH FLORIDA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



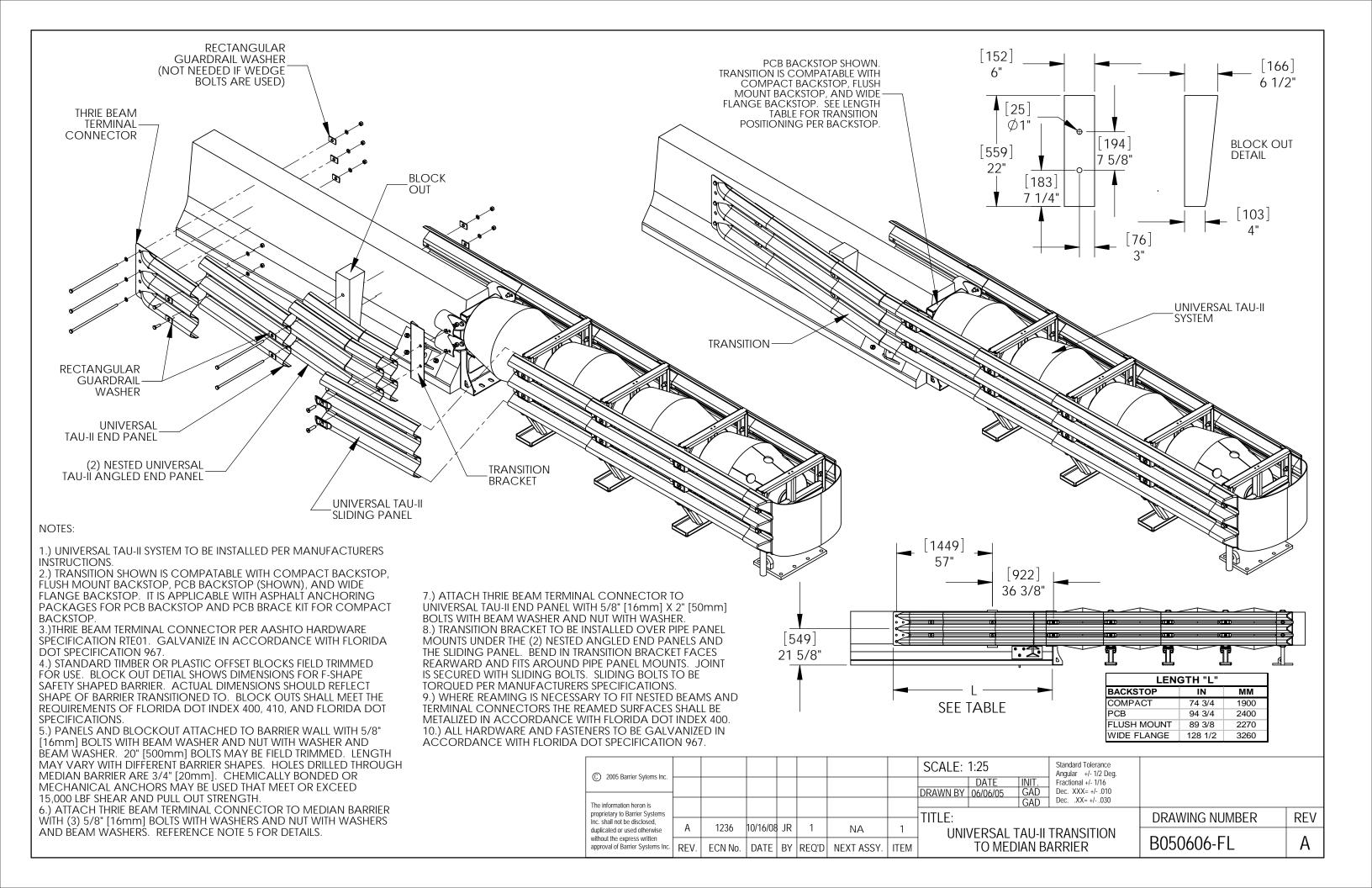
© 2004 Barrier Systems, Inc.	D	ADDED NOTE 7	05/13/09	JR				SCALE: 1=20 Standard Tolerance Angular ± 1/2°	
·	С	ADDED FOUNDATION & NOTES	10/16/08	JR				DATE INIT. Fractional ± 1/16	
The information heron is proprietary to Barrier Systems	В	FLORIDA DOT	3/29/04	GAD				APPR'D BY 03/16/04	MODEL DRAWING NUMBER DEV
Inc. and shall not be disclosed, duplicated or used otherwise	Α	FLORIDA DOT	3/24/04	GAD	NA	NA	NA	TITLE:TAU-II WITH COMPACT BACKSTOP, ASPHALT	MODEL DRAWING NUMBER REV.
without the express written approval of Barrier Systems Inc.	REV.	CHANGES	DATE	BY	REQ'D	NEXT ASSY.	ITEM	FOUNDATION, PCB BRACE	B040318-FL D

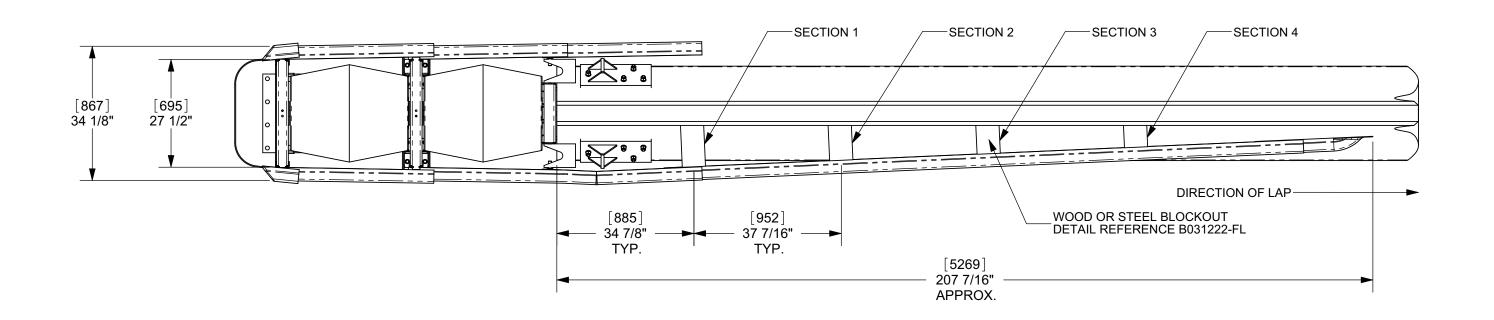
NOTES UNLESS OTHERWISE SPECIFIED:

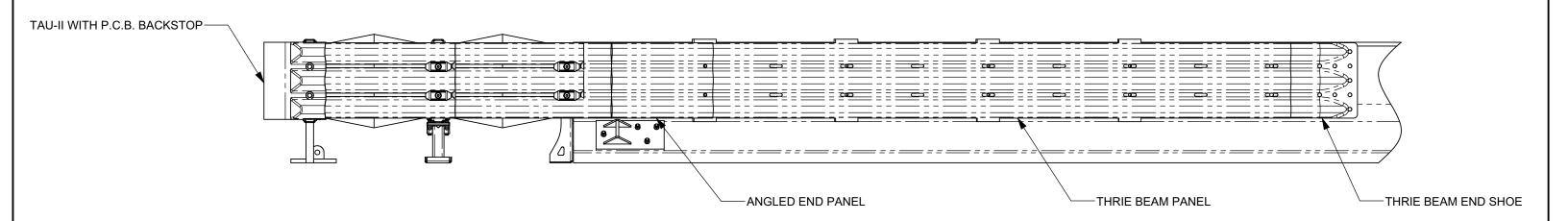
- 1. THE DETAILED METHOD FOR EXTENDING AN EXISTING CONCRETE PAD FOR USE WITH A UNIVERSAL TAU-II SYSTEM IS RECOMMENDED TO ENSURE ADEQUATE FOUNDATION INTEGRITY FOR PROPER IMPACT PERFORMANCE. VARIATIONS MAY BE REVIEWED AND DETERMINATIONS MADE AS TO EQUIVALENCE BY PROJECT ENGINEER.
- 2. REFERENCE UNIVERSAL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



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,								DRAWN BY 11/16/04 GAD	Fractional +/- 1/16 Dec. XXX= +/010			
The information heron is proprietary to Barrier Systems								TITLE:	DecXX= +/030	MODEL	DRAWING NUMBER	REV
Inc. shall not be disclosed, duplicated or used otherwise	0	NEW DRAWING	10/15/08	JR	1	A040113	1	UNIVERSAL TAU-II F	OUNDATION	IVIODEL		REV
without the express written approval of Barrier Systems Inc.	REV.	CHANGES	DATE	BY	REQ'D	NEXT ASSY.	ITEM	TVTENCION CO			B041111-FL	0







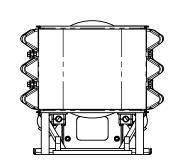
NOTES UNLESS OTHERWISE SPECIFIED:

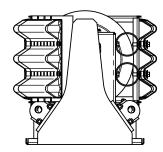
- 1.) REINFORCEMENT OF SAFETY SHAPED BARRIER END MAY BE NÉEDED. REFER TO BSI SPECIFICATION B011044 OR B011045 FOR FOUNDATION REQUIREMENTS.
- 'GUARDRAIL CONNECTION TO CONCRETE BARRIER WALL APPROACH
- 3.) 4-SPACE THRIE BEAM GUARDRAIL PER AASHTO HARDWARE SPECIFICATION RTM01. GALVANIZE IN ACCORDANCE WITH 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 FOF 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 2.) USE HARDWARE AND BLOCKOUTS IN ACCORDANCE WITH FLORIDA DOT SPECIFICATIONS. REFERENCE INDEX 400 DETAIL J AND INDEX 410 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.

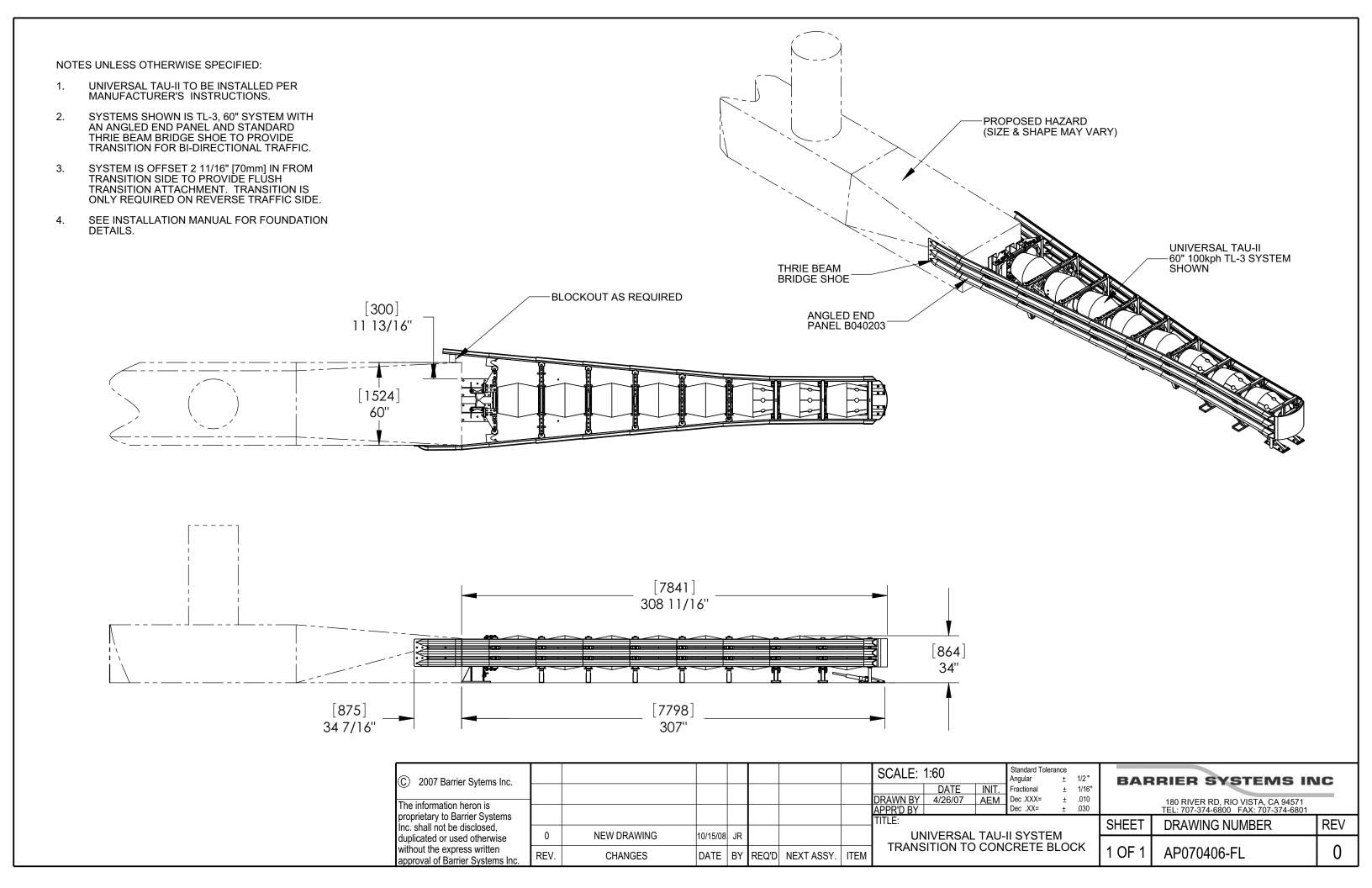
10.) TAU-II SYSTEM TO BE INSTALLED PER MANUFACTURER INSTRUCTIONS.





OR	OR © 2008 Barrier Sytems Inc.							SCALE: 1:25	Standard Tolerance Angular ± 1/2°	B	ARRIER SYSTEMS	
	The information here on is							BIV WIN BIT TO/TI/OC TORK	Fractional ± 1/16" Dec .XXX= ± .010 Dec .XX= ± .030		180 RIVER RD, RIO VISTA, CA 94571 TEL: 707-374-6800 FAX: 707-374-6801	_
	proprietary to Barrier Systems Inc. shall not be disclosed,		NEW PRANTILO					TAU-II WITH	I P.C.B.	SHEET	DRAWING NUMBER	REV
	duplicated or used otherwise without the express written approval of Barrier Systems Inc.	0 REV.	NEW DRAWING CHANGES	10/14/08	H	NEXT ASSY.	ITEM	BACKSTOP, TF TO P.C.B., ON		1 OF 1	B081026-FL	0

BACKSTOP	SYSTEM CAPA	ACITY					
WIDTH	30 MPH	35 MPH	45 MPH	50 MPH	55 MPH	60 MPH	70 MPH
PARALLEL UP TO 30"	B B)	B B A	B B B A	B B B A	B B B B A A	B B B B A A A	B B B B B A A A
36" BACKSTOP	B B	880	B B B A	8 8 8 A	B B B B A A	BBBBAAA)	B B B B B A A A
42" BACKSTOP	B B	880	B B B A	B B B A	B B B B A A	B B B B A A A	B B B B B A A A
48" BACKSTOP	88	B B A	B B B A	8 8 8 A	B B B B A A	B B B B A A A	B B B B B A A A
54" BACKSTOP	B B	B B A	B B B A	B B B A	B B B B A A	B B B B A A A	B B B B B A A A
60" BACKSTOP	88	B B A	B B B A	B B B A	B B B B A A	B B B B A A A	B B B B B A A A
66" BACKSTOP		B (A) (B) (A)	B B A	B B B A	B B B A A	B B B A A A	B B B B A A A
72" BACKSTOP		B A B A	B B A B A	B B A A	B B A A A		B B B B A A A
78" BACKSTOP		B A B A	B B A B A	B B A A B B A A B	B B A A A A	B B B A A A	B B B B A A A
84" BACKSTOP			B B A B A	B B A A B B A A	B B A A A B B A A A A	B B B A A A	B B B A A A
90" BACKSTOP			B B A A B B	B B A A B B A A	B B A A A A B B B A A A A B	B B B B B B A A A A	B B B A A A
96" BACKSTOP			B B A B A	B B A A B B A A	B B A A A B B A A A A B	B B B A A A A	B B B A A A A
PARALI	LEL BACKSTOP	B B B B		36" BACKSTOP (B) (B)		102" BACKSTOP	B B B B A A A A A A A A A A A A A A A A
ρ;	65 MPH			65 MPH		© 2003 Borrier Systems, Inc. The information heron is proprietary to Barrier Systems Inc. and shall not be disclosed, duplicated or used otherwise without the express written approval of Barrier Systems Inc. REV. CHANGES DATE BY REQ.	SCALE: 1=80 Standard Tolerance Angular ± 1/2 1



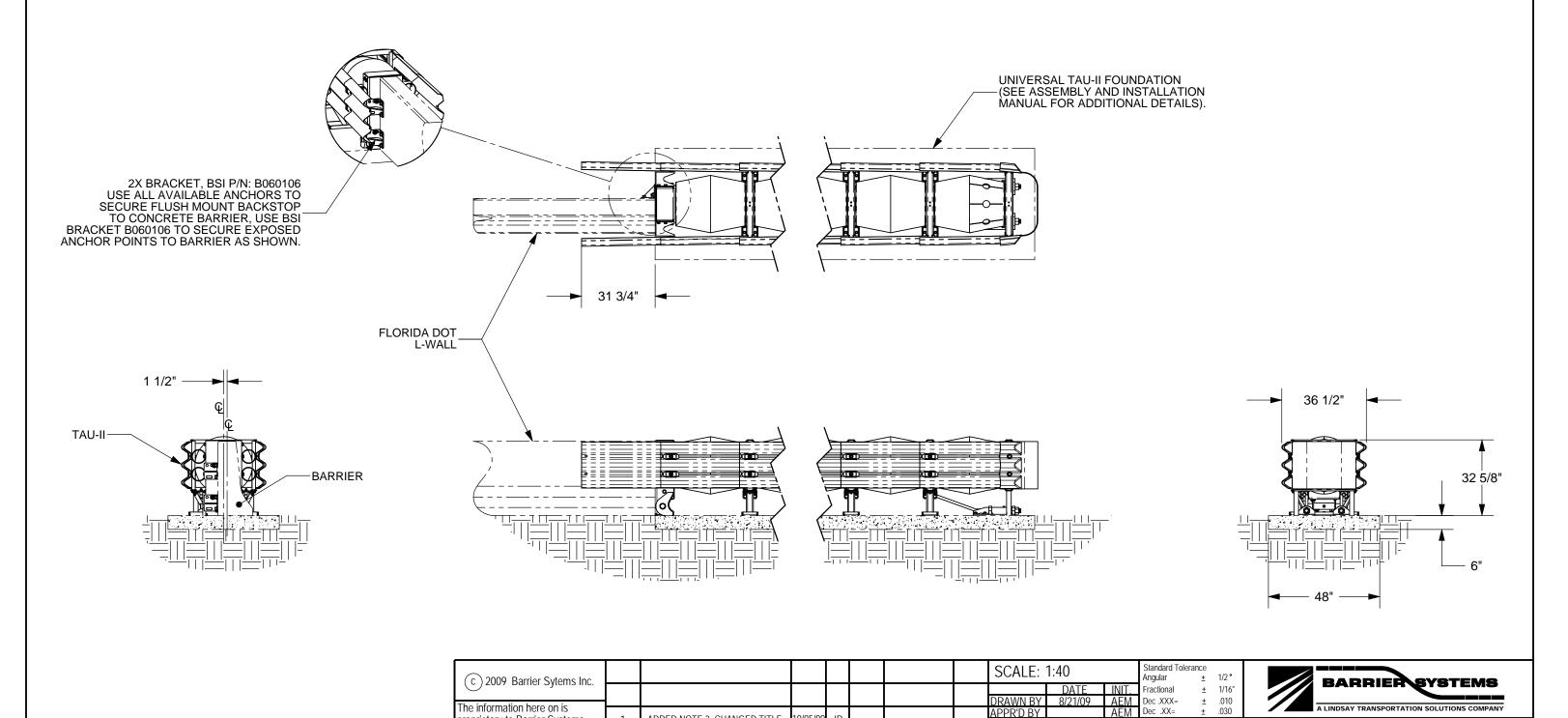
		UNIVERS	ΔΙ ΤΔΙΙ-ΙΙ	FOUNDA	TION DIM	FNSIONS			
		ONIVERO		UNITS - INCHES		LINOIOINO	<u> </u>		
			SY	STEM SPEED	CAPACITY (M	PH)			DRAWING
SYSTEM WIDTH (IN)	30	35	45 TL-2	50	55	60 TL-3	65	70	NUMBER
UP TO 30" PCB BACKSTOP	30T050PBC	30T060PBC	30T070PBC	30T080PBC	30T090PBC	30T100PBC	30T105PBC	30T110PBC	
	30T050PYC	30T060PYC	30T070PYC	30T080PYC	30T090PYC	30T100PYC	30T105PYC	30T110PYC	A040105
L (in)	85 1/2	119 1/2	154	188	256	290 1/2	324 1/2	358 1/2	A040117
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	
BACKSTOF	30T050CYC	30T060CYC	30T070CYC	30T080CYC	30T090CYC	30T100CYC	30T105CYC	30T110CYC	A040102 A040115
L (in)	115 1/2	149 1/2	183 1/2	217 1/2	286	320	354	388 1/2	A040115
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	
	30T050PYA	30T060PYA	30T070PYA	30T080PYA	30T090PYA	30T100PYA	30T105PYA	30T110PYA	A040112
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	1
P (in)	62 3/4	96 7/8	131	165 1/8	233 3/8	267 1/2	376 3/4	335 3/4	1
UP TO 30" ASPHALT COMPACT									1
BACKSTOP	30T050CBA	30T060CBA	30T070CBA	30T080CBA	30T090CBA	30T100CBA	30T105CBC	30T110CBA	-
	30T050CYA	30T060CYA	30T070CYA	30T080CYA	30T090CYA	30T100CYA	30T105CYA	30T110CYA	A040110
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	
	36T050PYC	36T060PYC	36T070PYC	36T080PYC	36T090PYC	36T100PYC	36T105PYC	36T110PYC	A040105
L (in)	85 1/2	119 1/2	154	188	256	290 1/2	324 1/5	358 1/2	A040117
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	
	36T050CYC	36T060CYC	36T070CYC	36T080CYC	36T090CYC	36T100CYC	36T105CYC	36T110CYC	A040102 A040115
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	
	36T050PYA	36T060PYA	36T070PYA	36T080PYA	36T090PYA	36T100PYA	36T105PYA	36T110PYA	A040112
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									1
BACKSTOP	36T050CBA	36T060CBA	36T070CBA	36T080CBA	36T090CBA	36T100CBA	36T105CBA	36T110CBA	-
	36T050CBA	36T060CYA	36T070CYA	36T080CYA	36T090CYA	36T100CYA	36T105CYA	36T110CYA	A040110
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	
	36T050FYC	36T060FYC	36T070FYC	36T080FYC	36T090FYC	36T100FYC	36T105CYC	36T110FYC	A040420
L (in)	83 1/2	117 1/2	151 1/2	185 1/2	254	288	322	356 1/2	1
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	Ī
	42T050WYC	42T060WYC	42T070WYC	42T080WYC	42T090WYC	42T100WYC	42T105WYC	42T110WYC	1
L (in)	125	159	193	227	295	329	363	397	1
W1 (in)	44	44	44	44	44	44	44	44	1
W2 (in)	51	51	51	51	51	51	51	51	1
P (in)	65	99	133	167	235	269	303	337	A040108
A (in)	22	22	22	22	22	22	22	22	1
B (in)	31	31	31	31	31	31	31	31	1
C (in) *	NA	NA	NA	NA	NA	NA	NA	NA	1
D (in)	16	16	16	16	16	16	16	16	1
E (in) *	NA	NA	NA	NA	NA	NA	NA	NA	

			SY	STEM SPEED	CAPACITY (MI	PH)			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 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	
		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	7.0.0.00
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	27 3/4	
D (in)		42 5/8	16	16	16	16	16	16	
E (in) *		NA NA	41 3/4	41 3/4	41 3/4	41 3/4	41 3/4	41 3/4	
		72T060WBC	72T070WBC	72T080WBC	72T090WBC	72T100WBC	72T105WBC	72T110WBC	
72" WE BACKSTOP			72T070WYC	72T080WYC	72T090WYC	72T100W2C	72T105W2C	72T110W2C	
72" WF BACKSTOP		72T060W/VC			121090W1C			121110W1C	
		72T060WYC			227	205	220	220	
L (in)		125	159	193	227	295	329	329	
L (in) W1 (in)		125 69	159 69	193 44	44	44	44	44	
L (in) W1 (in) W2 (in)		125 69 75	159 69 75	193 44 75	44 75	44 75	44 75	44 75	ል በ ል በ1በՋ
L (in) W1 (in) W2 (in) P (in)		125 69 75 65	159 69 75 99	193 44 75 133	44 75 167	44 75 235	44 75 269	44 75 269	A040108
L (in) W1 (in) W2 (in) P (in) A (in)		125 69 75 65 48 5/8	159 69 75 99 48 5/8	193 44 75 133 22	44 75 167 22	44 75 235 22	44 75 269 22	44 75 269 22	A040108
L (in) W1 (in) W2 (in) P (in) A (in) B (in)		125 69 75 65 48 5/8 54 3/4	159 69 75 99 48 5/8 54 3/4	193 44 75 133 22 54 3/4	44 75 167 22 54 3/4	44 75 235 22 54 3/4	44 75 269 22 54 3/4	44 75 269 22 54 3/4	A040108
L (in) W1 (in) W2 (in) P (in) A (in)		125 69 75 65 48 5/8	159 69 75 99 48 5/8	193 44 75 133 22	44 75 167 22	44 75 235 22	44 75 269 22	44 75 269 22	A040108

			SY	STEM SPEED	CAPACITY (M	PH)			DRAWING
SYSTEM WIDTH (IN)	30	35	45 TL-2	50	55	60 TL-3	65	70	NUMBER
78" WF BACKSTOP		78T060WBC	78T070WBC	78T080WBC	78T090WBC	78T100WBC	78T105WBC	78T110WBC	
		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	4040400
P (in)		65	99	133	167	235	269	269	A040108
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 42.5/0	NA 42.5/8	NA 42.5/0	27 3/4 16	27 3/4	27 3/4 16	27 3/4 16	
D (in) E (in) *		42 5/8 NA	42 5/8 NA	42 5/8 NA	41 3/4	16 41 3/4	41 3/4	41 3/4	
84" WF BACKSTOP		INA	84T070WBC	84T080WBC	84T090WBC	84T100WBC	84T105WBC	84T110WBC	
64 WE BACKSTOP									
1 (%)			84T070WYC	84T080WYC	84T090WYC	84T100WYC	84T105WYC	84T110WYC	
L (in)			159	193	227 69	295	329	329	
W1 (in) W2 (in)			69 75	69 75	75	44 75	44 75	44 75	
vv∠ (iii) P (in)			99	133	167	235	269	269	A040108
A (in)			48 5/8	48 5/8	48 5/8	233	22	209	7.0.0.00
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 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	NA	41 3/4	41 3/4	41 3/4	
90" WF BACKSTOP			90T070WBC	90T080WBC	90T090WBC	90T100WBC	90T105WBC	90T110WBC	
30 W BACKSTOI			90T070WYC	90T080WYC	90T090WYC	90T100WYC	90T105W2C	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	A040108
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 (i̇̀n) *			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	
			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	A040108
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	
								102T110WYC	
L (in)								329	
W1 (in)								69	
W2 (in)								99	40/0/05
P (in)								269	A040108
A (in)								48 5/8	
B (in)		1						78 5/8	
C (in) *								51 5/8	
D (in)								42 5/8	
E (in) *								65 5/8	

NOTES UNLESS OTHERWISE SPECIFIED:

- UNIVERSAL TAU-II SYSTEM TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. REFER TO INSTALLATION MANUAL.
- 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.
- SYSTEM SHOWN INSTALLED ON FLORIDA DOT L-WALL, INDEX NO. 410.



ADDED NOTE 3, CHANGED TITLE

NEW DRAWING

CHANGES

REV.

0/05/09

8/21/09

DATE

BY REQ'D

TITLE:

NEXT ASSY.

FLUSH MOUNT BACKSTOP APPLICATION,

SHOULDER WALLS

proprietary to Barrier Systems

Inc. shall not be disclosed,

duplicated or used otherwise without the express written approval of Barrier Systems Inc. A LINDSAY TRANSPORTATION SOLUTIONS COMPANY

REV

DRAWING NUMBER

AP090806

SHEET

1 OF 1