Universal TAU-M System Lengths

Universal TAU-M General Notes - Permanent

Universal TAU-M Foundation, Concrete Pad

Universal TAU-M Foundation Specifications

Universal TAU-M Test Level 3 System Layout

Universal TAU-M Test Level 3 System Layout

Universal TAU-M Bidirectional Transition

Universal TAU-M Transition to W-Beam Guardrail

Universal TAU-M Foundation Extension, Concrete

Universal TAU-M Transition to Concrete Barrier with End Shoe

Universal TAU-M Transition to Offset Concrete Barrier with End Shoe

DESCRIPTION

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DRAWING INDEX

UNIVERSAL TAU-M GENERAL NOTES - PERMANENT							
1.	THE ENERGY ABSORBING SYSTEM REPRESENTED ON THIS APPROVED PRODUCT LIST (APL) IS A PROPRIETARY DESIGN BY LINDSAY TRANSPORTATION SOLUTIONS (LTS) AND MARKETED UNDER THE TRADE NAME UNIVERSAL TAU-M.						
2.	THE UNIVERSAL TAU-M IS A REDIRECTIVE, NON-GATING CRASH CUSHION DESIGNED TO SHIELD HAZARDS UP TO 30 INCHES IN WIDTH. THE BEGINNING LENGTH OF NEED SHALL BE AT THE POINT OF INTERSECTION BETWEEN THE FACE OF THE CRASH CUSHION AND THE TRANSVERSE CENTERLINE OF THE FIRST MID-SUPPORT.						

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3.	THE UNIVERSAL TAU-M HAS BEEN EVALUATED TO MASH CRASH TESTIN	ING CRITERIA AND IS SUITABLE FOR	TEST LEVEL 3 CRASH
	CUSHION APPLICATIONS.	T .	

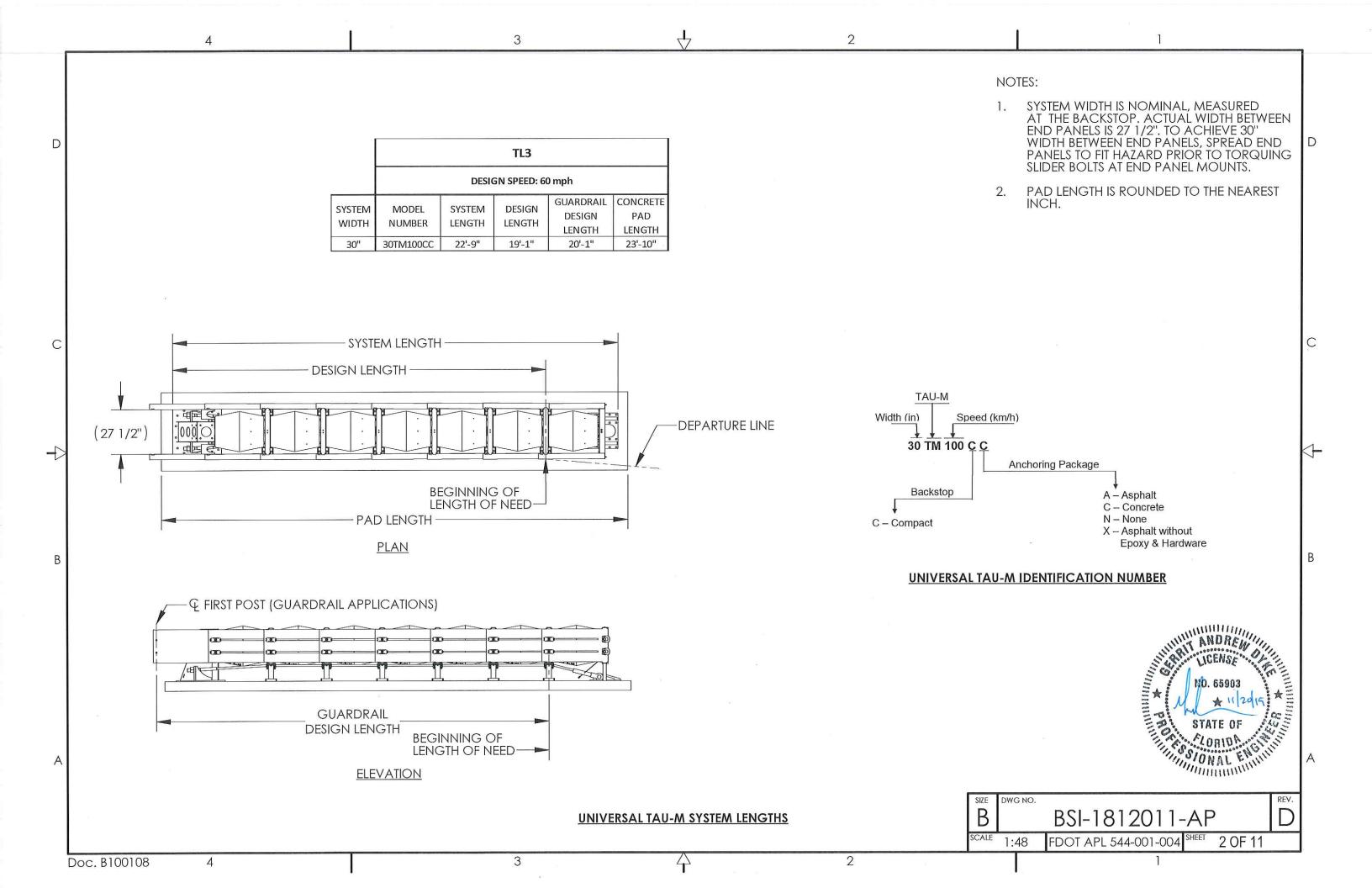
- THE UNIVERSAL TAU-M SHALL BE ASSEMBLED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S DETAILED DRAWINGS, PROCEDURES, SPECIFICATIONS, PRODUCT MANUAL, OR INSTALLATION GUIDE. INFORMATION AND COPIES OF THE ABOVE MANUAL ARE AVAILABLE ON THE APPROVED PRODUCT LIST (APL).
- THE UNIVERSAL TAU-M IS AVAILABLE IN 30" NOMINAL WIDTH.
- THE UNIVERSAL TAU-M SHALL BE CONSTRUCTED PARALLEL TO THE APPROACH TRAVEL LANE AND ON CROSS SLOPES 1:10 OR
- METALLIC COMPONENTS SHALL MEET THE GALVANIZING REQUIREMENTS FOR GUARDRAIL, SECTION 967 OF THE FDOT SPECIFICATIONS.
- ONLY THE UNIVERSAL TAU-M TYPE B ENERGY ABSORBING CARTRIDGES SHALL BE USED AS SHOWN ON THE DRAWINGS.
- SUPPLY ADEQUATE TRANSITION FROM THE UNIVERSAL TAU-M SYSTEM TO THE OBJECT BEING SHIELDED IN BI-DIRECTIONAL APPLICATIONS.
- UNITS OF MEASURE ARE IN ENGLISH UNITS.

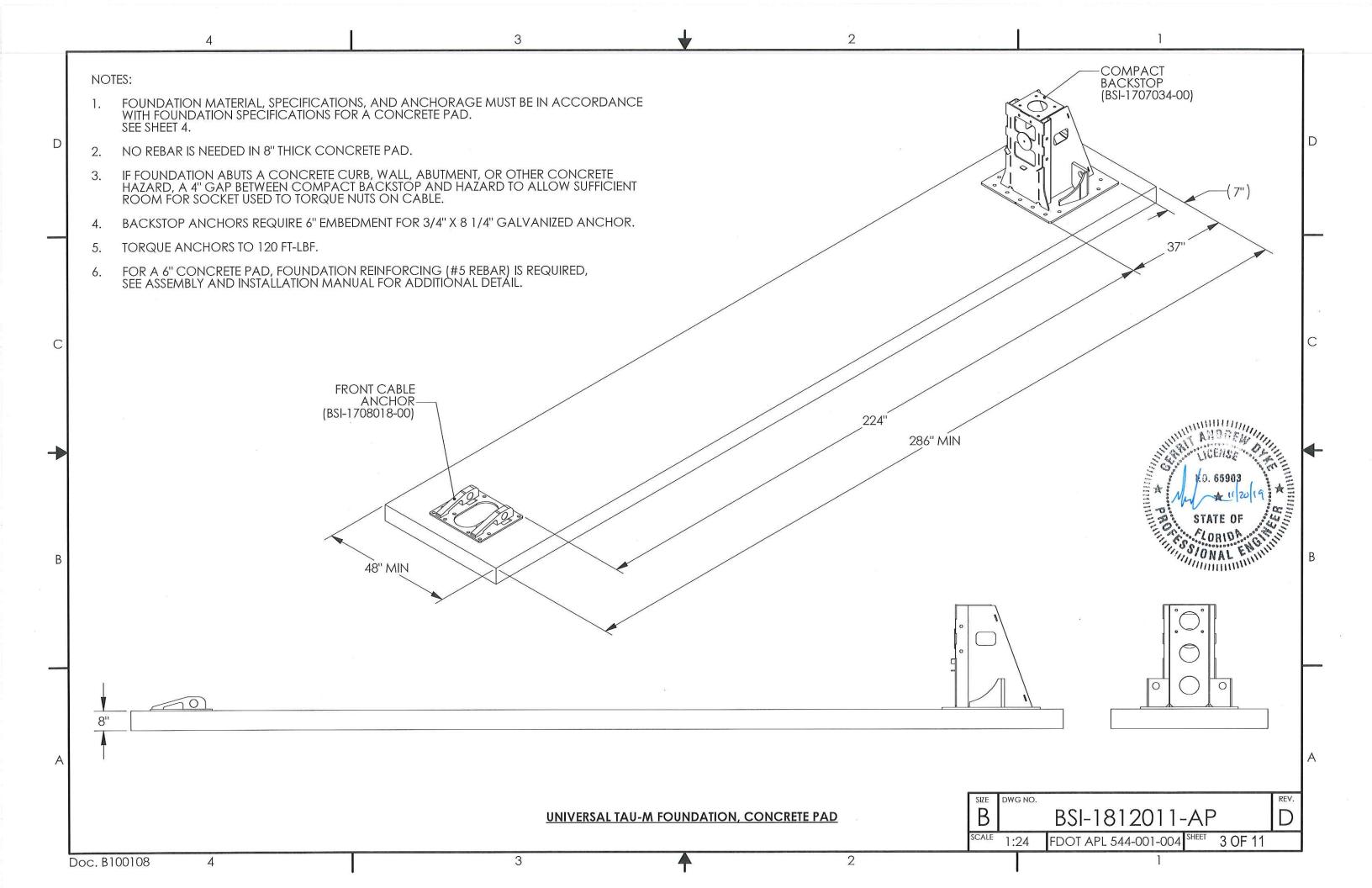
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PERMISSION OF PROHIBITED.	BARRIER SYSTEMS INC. IS	.XXX = ±.010 .XXX = ±.010				TITLE	UNI	VERSAL TAU-M, TES	T LEVEL 3.	
APPROVALS		TOLERANCES PER ASME Y14.5-1994	D	AP 01398	09/23/19		172	STATE OF FLORIDA		
DRAWN BY:	NMB	THIRD ANGLE PROJECTION	С	AP 01398	06/03/19			APL NO. 544-001	-004	
DRAWN DATE:	12/17/2018	6/	В	AP 01398	03/04/19	SIZE	DWG NO.	DOL 4040044	. –	REV.
APPR'D BY:	GAD		Α	AP.01398	12/17/18	B		BSI-1812011	-AP	D
APPR'D DATE:	12/17/2018	DO NOT SCALE DRAWING	REV	ECN#	DATE	SCALE	1:1	FDOT APL 544-001-004	SHEET 1 OF 11	

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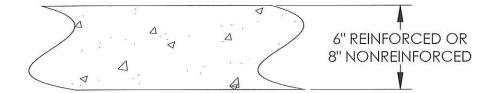




## NOTES:

- 1. THE UNIVERSAL TAU-M CRASH CUSHION SYSTEM HAS BEEN DESIGNED TO ATTACH TO CONCRETE OR ASPHALT FOUNDATIONS. FOR PERMANENT APPLICATIONS, FDOT REQUIRES THE USE OF A CONCRETE FOUNDATION. USE THE ANCHORAGE SPECIFIED BELOW DEPENDING ON THE FOUNDATION AT THE JOB SITE. REFER TO TAU-M FOUNDATION DRAWINGS.
- 2. FOR CHEMICAL ANCHORS, USE 3/4" GRADE 2 THREADED ROD WITH EPOXY PROVIDING A MINIMUM PULL OUT STRENGTH OF 39,000 LBF AND MINIMUM SHEAR STRENGTH OF 32,000 LBF IN 4,000 PSI CONCRETE.

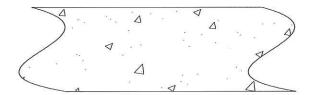
## CONCRETE PAD



**FOUNDATION**: MINIMUM 6IN. REINFORCED CONCRETE PAD OR 8IN. NONREINFORCED CONCRETE PAD.

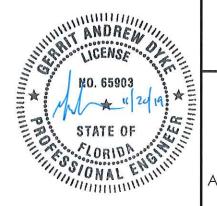
ANCHORAGE: 3/4 IN. X 8 1/4 IN. GALVANIZED ANCHOR WITH 6IN. EMBEDMENT OR 3/4" MECHANICAL ANCHORS WITH AN EMBEDMENT THAT IS IN ACCORDANCE WITH ANCHOR MANUFACTURER'S SPECIFICATIONS AND MEETS PULL OUT AND SHEAR STRENGTH REQUIREMENTS REFERENCED IN NOTE 2 ABOVE.

## PORTLAND CEMENT CONCRETE (PCC)



STONE AGGREGATE CONCRETE MIX 4,000 PSI MINIMUM COMPRESSIVE STRENGTH.

THE CONTRACTOR IS TO FURNISH A CERTIFICATION THAT THE CONCRETE INSTALLED MEETS THE STRENGTH REQUIREMENTS.



UNIVERSAL TAU-M FOUNDATION SPECIFICATIONS

SIZE	DWG NO.			REV			
В	B   BSI-1812011-AP						
SCALE	NTS	FDOT APL 544-001-004	<sup>SHEET</sup> 4 OF 11				

