SHEET NO.	CONTENTS
1	General Notes
2	QuadGuard® M10 24" to Thrie Beam Guardrail, Unidirectional
3	QuadGuard® M10 24" to Single Slope Concrete Barrier, Unidirectional
4	QuadGuard® M10 24" to Vertical Concrete Barrier, Unidirectional
5	QuadGuard® M10 24" to 31" W—Beam Guardrail, Bidirectional
6	QuadGuard® M10 24" to Thrie Beam Guardrail, Bidirectional
7	QuadGuard® M10 24" to Single Slope Concrete Barrier Bidirectional
8	QuadGuard® M10 24" to Vertical Concrete Barrier, Bidirectional
9	QuadGuard [®] M10 24" to Safety Shape Concrete Barrier, Bidirectional
10, 11, 12	QuadGuard® M10 24" Concrete Pad
13	QuadGuard [®] II Conversion Concrete Pad 1 Bay Extension

QUADGUARD® M10 SYSTEM TL-2 (Permanent) APL 544-002-003

- 1. The energy absorbing system represented on these Approved Products List (APL) drawings is a proprietary design by Energy Absorption Systems, of VALTIR, LLC, and marketed under the name QUADGUARD® M10 System (QGM10).
- 2. The QGM10 is a redirective, non-gating crash cushion which is well suited for shielding hazards. The QGM10 is used for permanent installations. The beginning length of need shall be at the point of intersection between the face of the crash cushion and the departure line.
- 3. The 3-bay QGM10 has been evaluated to MASH crash test criteria and is suitable for Test Level 2 crash cushion applications.
- 4. The QGM10 shall be assembled and installed in accordance with the manufacturer's detailed drawings, procedures and specifications, product manual or installation guide. Information and copies of the above documents are available on the Approved Product List (APL).
- 5. The QGM10 is available in 24" nominal width.
- 6. Only the QGM10 Type I and Type II energy absorbing cartridges shall be used as shown on the drawings.
- 7. All metallic compounds shall meet the galvanizing requirements for guardrail, FDOT Specification Section 967.

- 8. Units of measurements are in English units.
- 9. Ensure adequate space is provided for all rear fender panels to slide rearward 30" upon impact.
- 10. QGM10 shall be placed on a min. 6" thick reinforced 4000 PSI Portland Cement concrete pad as detailed in the drawings. As an alternate, a min. 8" thick concrete, 4000 psi Portland Cement concrete roadway measuring at least 12'-0" wide by 50'-0" long. Existing concrete pads or new pads with below ground obstructions are acceptable with anchor blocks located at the front of the pad.
- 11. See the QUADGUARD® M10 System Product manual for a description of its impact performance characteristics and design limitations before placing a system at a given site. Information and copies of current manual are available on the APL.
- 12. For proper impact performance, the QGM10 system must be restored to its original length and condition after each impact.
- 13. The QGM10 tension strut backup is the primary backup to be used on Florida Department of Transportation projects.

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QUADGUARD® M10 24" TL-2 (PERMANENT)

APL 544-002-003

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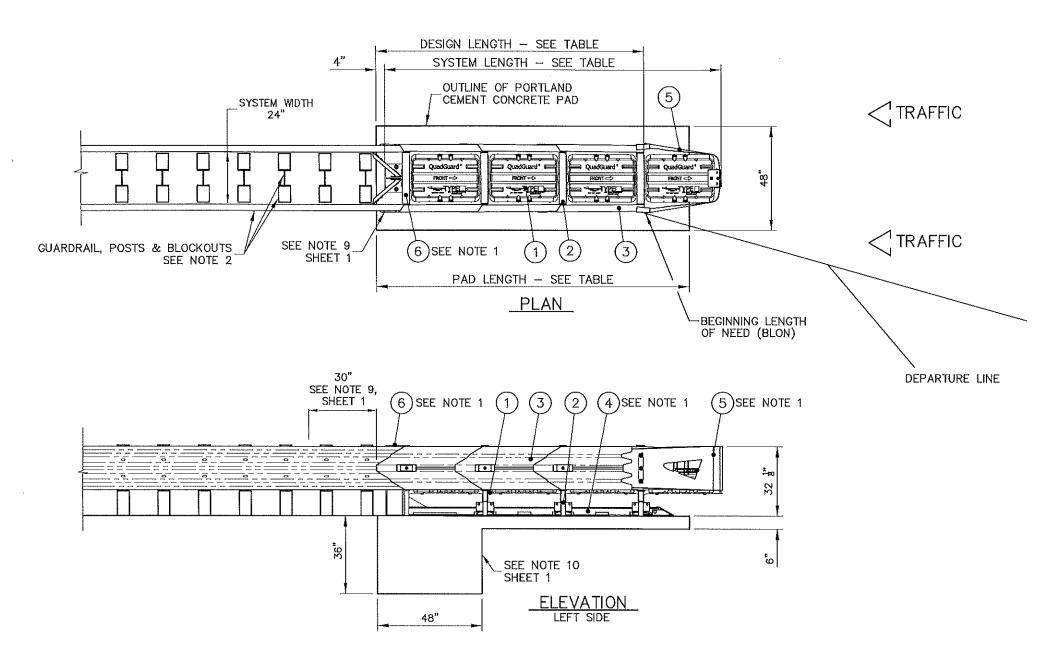
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1. BACKUP, MONORAIL AND NOSE ASSEMBLIES NOT INCLUDED IN MODEL NUMBER. ORDER SEPARATELY.

2. GUARDRAIL, POSTS, BLOCKOUTS AND HARDWARE ARE STANDARD HIGHWAY ISSUE

	PERMANENT CRASH CUSHION DESIGN TABLE						
BAYS	24" WIDTH	SYSTEM	DESIGN	PAD	DESIGN	TEST	NO. OF CARTRIDGES
	MODEL#	LENGTH	LENGTH	LENGTH	SPEED	LEVEL	TYPE TYPE
3	QM7024	13'-0"	10'-2"	12'-0"	43 mph	TL-2	3 1

NOTE: FOR LOW SPEED FACILITIES WITH A DESIGN SPEED OF ≤ 45 MPH USE A TL-2 SYSTEM.

AND ARE NOT INCLU	SYSTEM.	WAT B. FOUR	
3. GUARDRAIL TERMINA	TED BEHIND QUADGUARD® M1	O FENDER PANELS.	UNITER CENS
H	CEY		* No 75091
① QG M10 CARTRIDGE	(4) MONORAIL		P But Esbert
② DIAPHRAGM	(5) NOSE ASSEMBLY		ORID CITY
③ FENDER PANEL	⑥ BACKUP		ONAL ENGINE

J. SIMMONS	DATE: 04/09/2020	MODEL	SEE	ΓAΒL	Ε		QUA
CHECKEO: B. ECKERT	04/17/2020	TRAFFIC 0	RECTION: UNIDIRE	CTIC	NAL		
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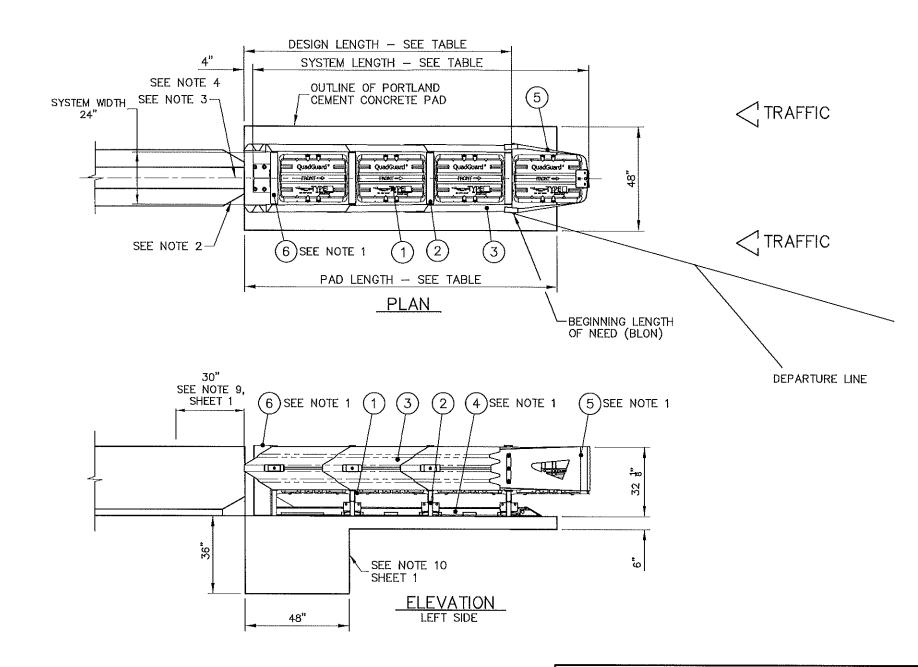
ADGUARD® M10 24" TL-2 (PERMANENT) TO THRIE-BEAM QUARDRAIL

APL 544-002-003

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QMS-FE-048 Rev 0, (08/01/2022)



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NOTES: 1. BACKUP, MONORAIL AND NOSE ASSEMBLIES NOT INCLUDED IN MODEL NUMBER. ORDER SEPARATELY.

- 2. CHAMFER ENDS OF BARRIER AT 15 DEGREES, TAPER (1:4).
- 3. CAUTION: € OF QUARDGUARD® M10 SYSTEM SHALL BE PARALLEL TO € OF BARRIER ±1'.
- 4. CAUTION: MAX. 4" CLEARANCE BETWEEN BACKUP AND END OF BARRIER.

PERMANENT CRASH CUSHION DESIGN TABLE							
BAYS 24" WIDTH SYSTEM DESIGN PAD DESIGN TEST NO. OF CARTRIDGES							
	MODEL#	LENGTH	LENGTH	LENGTH	SPEED	LEVEL	TYPE I TYPE II
3	QM7024	13'-0"	10'-2"	12'-0"	43 mph	TL-2	3 1
NOT	NOTE, FOR LOW SPEED FACILITIES WITH A DESIGN SPEED OF CAR WITH LOS A THOUSEVERY						

NOTE: FOR LOW SPEED FACILITIES WITH A DESIGN SPEED OF ≤ 45 MPH USE A TL-2 SYSTEM.

OA		(EY
① Q	G M10 CARTRIDGE	4 MONORAIL
② DI	IAPHRAGM	(5) NOSE ASSEMBLY
③ FI	ENDER PANEL	⑥ BACKUP

J, SIMMONS	04/09/2020	MODEL:	SEE.	TABL	E		QUA
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WAS SHEET 3 OF 12		7427	05/27/21	В	JMS	BRE	DRAWING:
BORDER WAS THP BORDER		8151	08/17/22	С	RJV	RCB	6,4411 VG,

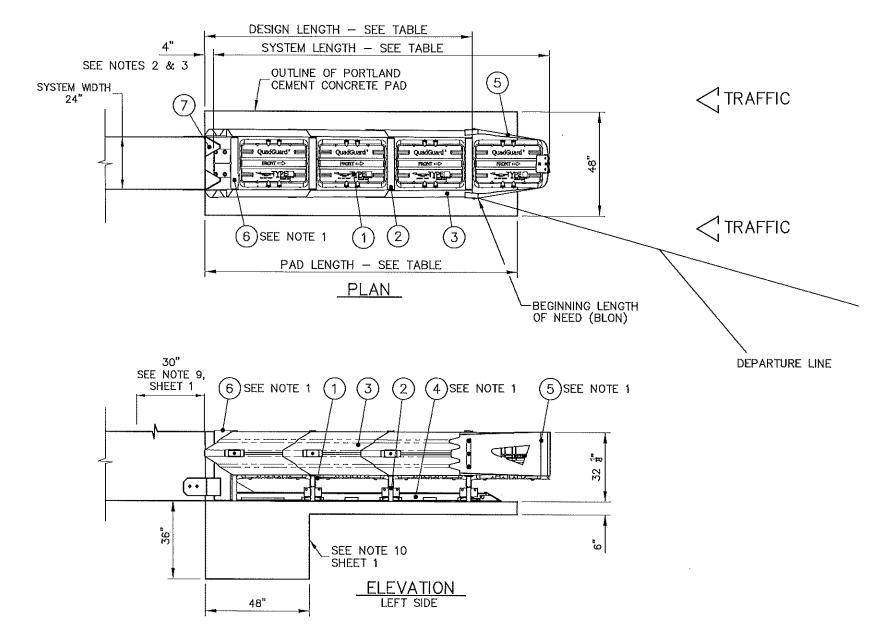
ADGUARD® M10 24" TL-2 (PERMANENT) TO CONCRETE BARRIER

APL 544-002-003

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NOTES: 1. BACKUP, WHEEL DEFLECTORS, MONORAIL AND NOSE ASSEMBLIES NOT INCLUDED IN MODEL NUMBER. ORDER SEPARATELY. WHEEL DEFLECTORS ARE ACCESSORY ITEMS.

2. WHEEL DEFLECTORS MAY BE USED ON EITHER SIDE OR BOTH FOR UNIDIRECTIONAL APPLICATIONS AS NEEDED.

3. CAUTION: MAX. 4" CLEARANCE BETWEEN BACKUP AND WALL

	PERMANENT CRASH CUSHION DESIGN TABLE							
BAYS	24" WIDTH	SYSTEM	DESIGN	PAD	DESIGN	TEST	NO. OF CARTE	IDGES
	MODEL#	LENGTH	LENGTH	LENGTH	SPEED	LEVEL	TYPE I J T	YPE II
3	QM7024	13'-0"	10'-2"	12'-0"	43 mph	TL-2	3	1

NOTE: FOR LOW SPEED FACILITIES WITH A DESIGN SPEED OF ≤ 45 MPH USE A TL-2 SYSTEM.

ŀ	(EY
① QG M10 CARTRIDGE	7 WHEEL DEFLECTOR
② DIAPHRAGM	
③ FENDER PANEL	
(4) MONORAIL	
(5) NOSE ASSY	
BACKUP	

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STATE OF WE
ONAL ENGINEER

_	DRAWN: J. SIMMONS	MODEL: SEE TABLE					QU	
	CHECKED; B. ECKERT	DATE: 04/17/2020		TRAFFIC DIRECTION: UNIDIRE				
	UNLESS OTHERWISE NOTED, DIMENSIONS ARE IN INCH, DIMENSIONS ACCORDING TO ASME Y14,5-2018 AND OMS-SE-003 UNLESS OTHERWISE SPECIFIED.		DO NOT SCALE DRAWING			⊕		
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	BORDER WAS THP BORDER		8151	08/17/22	С	RJV	RCB	DRANG

UADGUARD® M10 24" TL-2 (PERMANENT) TO VERTICAL CONCRETE BARRIER

APL 544-002-003

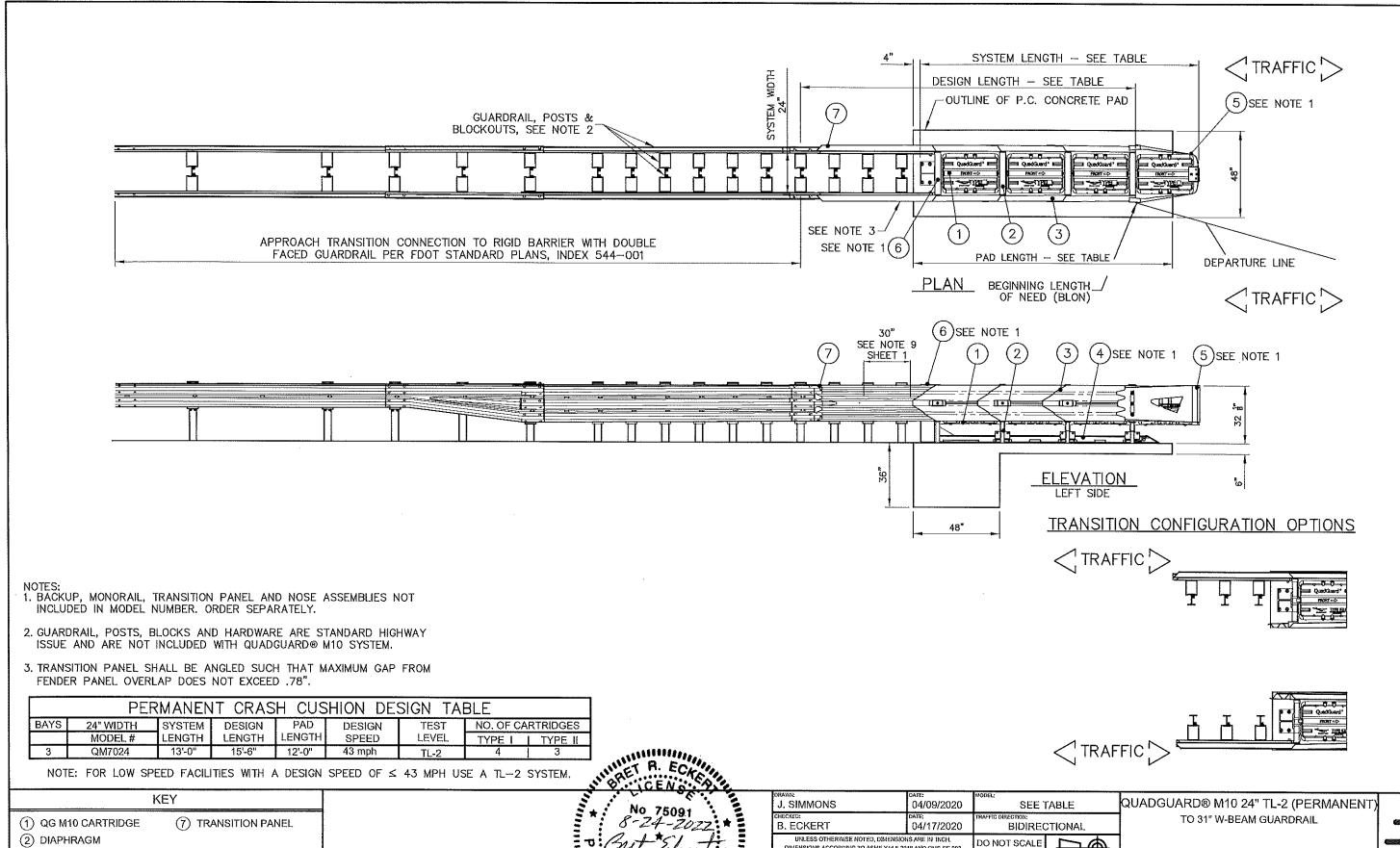
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(3) FENDER PANEL

(5) NOSE ASSEMBLY

(4) MONORAIL

6 BACKUP

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7427 05/27/21

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REVISION DESCRIPTION

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UPDATED APL NUMBER, DESIGN LENGTH, AND TABLE

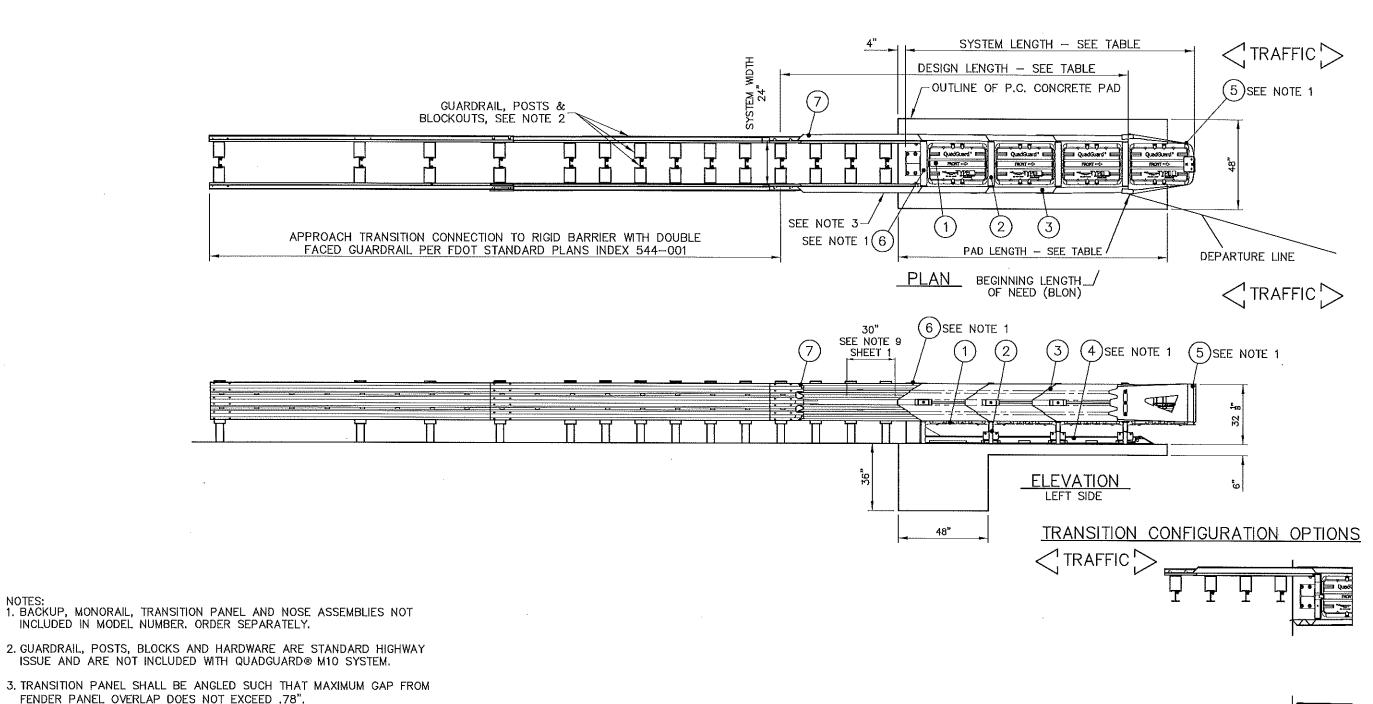
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	PERMANENT CRASH CUSHION DESIGN TABLE										
BAYS	24" WIDTH	SYSTEM	DESIGN	DESIGN PAD	DESIGN	TEST	NO, OF CA	RTRIDGES			
	MODEL#	LENGTH	LENGTH	LENGTH	SPEED	LEVEL,	TYPE I	TYPE II			
3	QM7024	13'-0"	15'-6"	12'-0"	43 mph	TL-2	4	3			

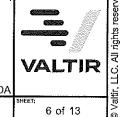
NOTE: FOR LOW SE	PEED FACILITIES WITH A DESIGN	SPEED OF ≤ 43 MPH USE A TL-2 SYSTEM.	I B FO
TOTAL TOTAL CONTROL	KEY	or ees of a so milit out it is a solution.	THE CENOR
① QG M10 CARTRIDGE ② DIAPHRAGM ③ FENDER PANEL	7 TRANSITION PANEL		* 8-24-2022 But Ebut
MONORAIL NOSE ASSEMBLY BACKUP			STATE OF STATE OF
			· · · · · · · · · · · · · · · · · · ·

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J. SIMMONS	06/05/2020	İ	SEE	TABL	Ε.		QUAE
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BORDER WAS THP BORDE	ER .	8151	08/17/22	C	RJV	RCB	OPMINIO;

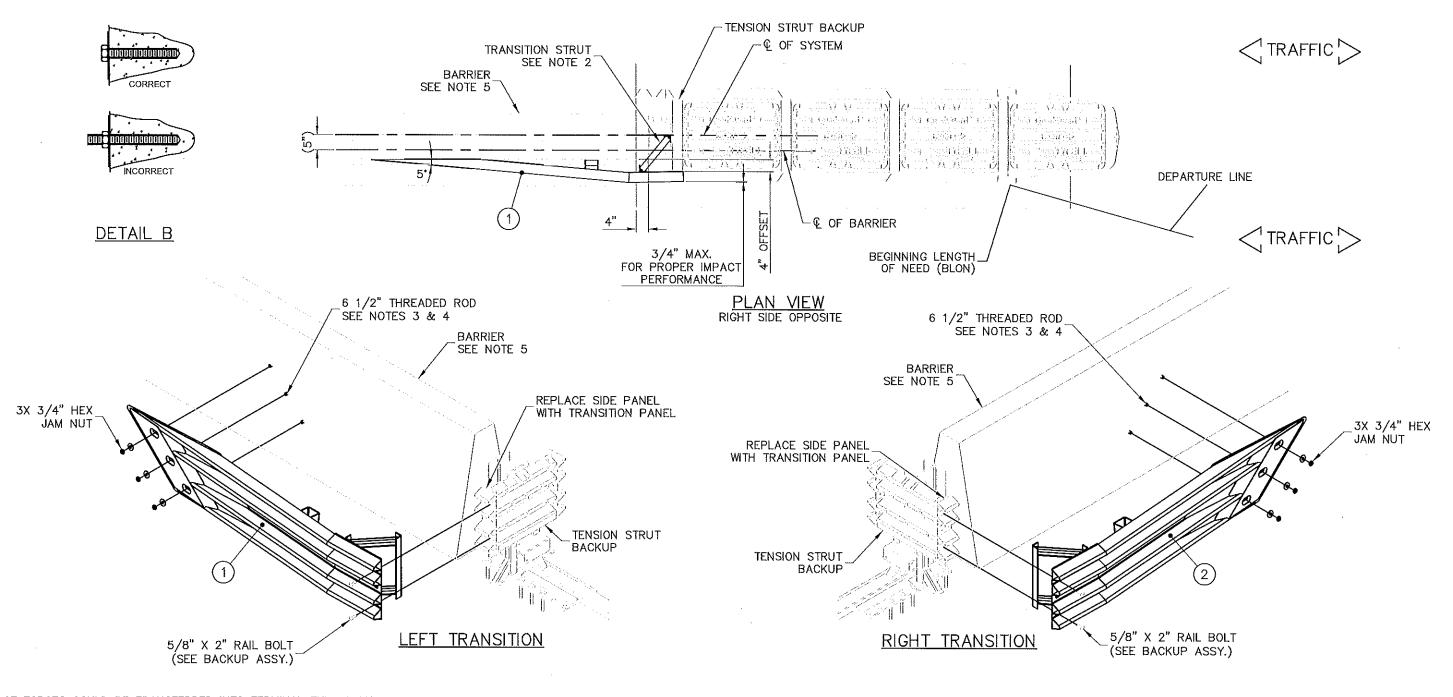
DGUARD® M10 24" TL-2 (PERMANENT TO THRIE-BEAM GUARDRAIL

APL 544-002-003

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- 1. MPACT FORCES COULD BE TRANSFERRED INTO TERMINAL END OF THE BARRIER. ADEQUATE ANCHORAGE IS REQUIRED FOR PROPER IMPACT PERFORMANCE.
- 2. POSITION TRANSITION STRUT TO CONTACT (1/4" GAP ACCEPTABLE) WIDE FLANGE BEAM OF BACKUP BEFORE ATTACHING TO BACKUP AND ANCHORING TO BARRIER.
- 3. USE TRANSITION PANEL AS TEMPLATE FOR DRILLING. ENSURE FLUSH FIT TO BARRIER. RECOMMENDED HOLE DEPTH 5. FINAL TORQUE TO BE 100 FT-LBS (TYP).
- 4. ANCHOR STUD END SHOULD BE FLUSH WITH OUTSIDE SURFACE OF ANCHOR NUT. SEE DETAIL B.

4. ANCHOR STUD END SHOULD BE FLUSH WITH OUTSID 5. STATE APPROVED SINGLE SLOPE CONCRETE BARRIEF	
KEY	IL VICENSKY I
1 TRANSITION ASSY, 6 IN, SINGLE SLOPE, L	* No 75091 8-21-2022 *
② TRANSITION ASSY, 6 IN, SINGLE SLOPE, R	STATE OF WE
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drayn: J. SIMMONS	SEE TABLE						
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ADGUARD® M10 24" TL-2 (PERMANENT) TO SINGLE SLOPE CONCRETE BARRIER

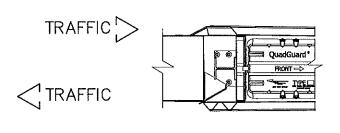
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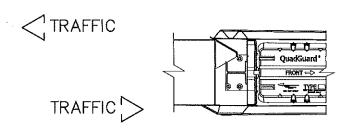
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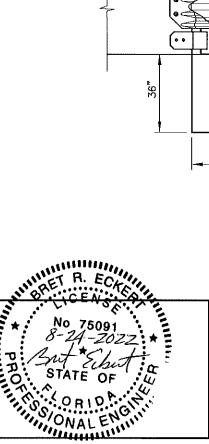


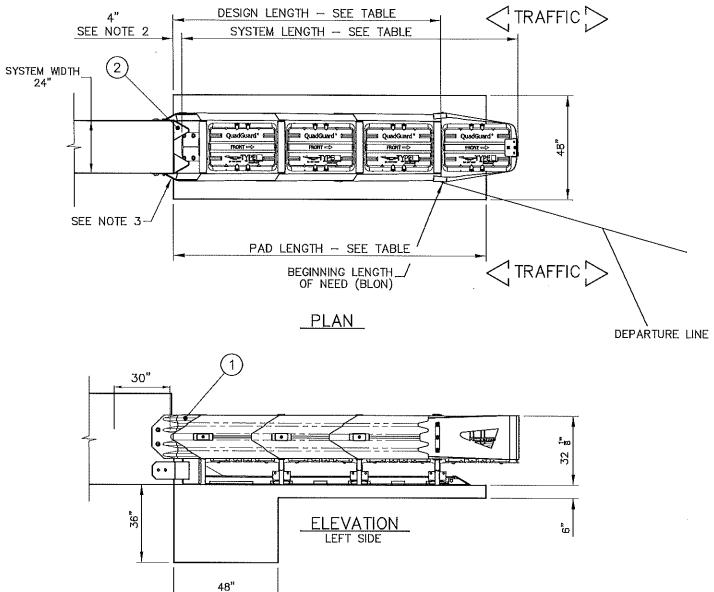


TRANSITION CONFIGURATION OPTIONS

NOTES:

- 1. CAUTION & OF QUADGUARD® M10 SYSTEM SHALL BE PARALLEL WITH & OF BARRIER ±1.
- 2. CAUTION: MAX. 4" CLEARANCE BETWEEN BACKUP AND BARRIER WALL, ZERO CLEARANCE RECOMMENDED.
- 3. TRANSITION PANEL SHALL BE ANGLED SUCH THAT MAXIMUM GAP FROM FENDER PANEL OVERLAP DOES NOT EXCEED .78".





	PERMANENT CRASH CUSHION DESIGN TABLE										
BAYS	24" WIDTH	SYSTEM	DESIGN PAD DESIGN		DESIGN	TEST	NO. OF CARTRIDGES				
	MODEL#	LENGTH	LENGTH	LENGTH	SPEED	LEVEL	TYPE I TYPE II				
3	QM7024	13'-0"	10'-2"	12'-0"	43 mph	TL-2	3 1				

NOTE: FOR LOW SPEED FACILITIES WITH A DESIGN SPEED OF ≤ 45 MPH USE A TL-2 SYSTEM.

ERLAP DOES NOT EXCEED	78".	HINRET HECKING
KEY		No 75001
		* No 75091 8-24-2022
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(UADGUARD® M10 24" TL-2 (PERMANENT) TO VERTICAL CONCRETE BARRIER

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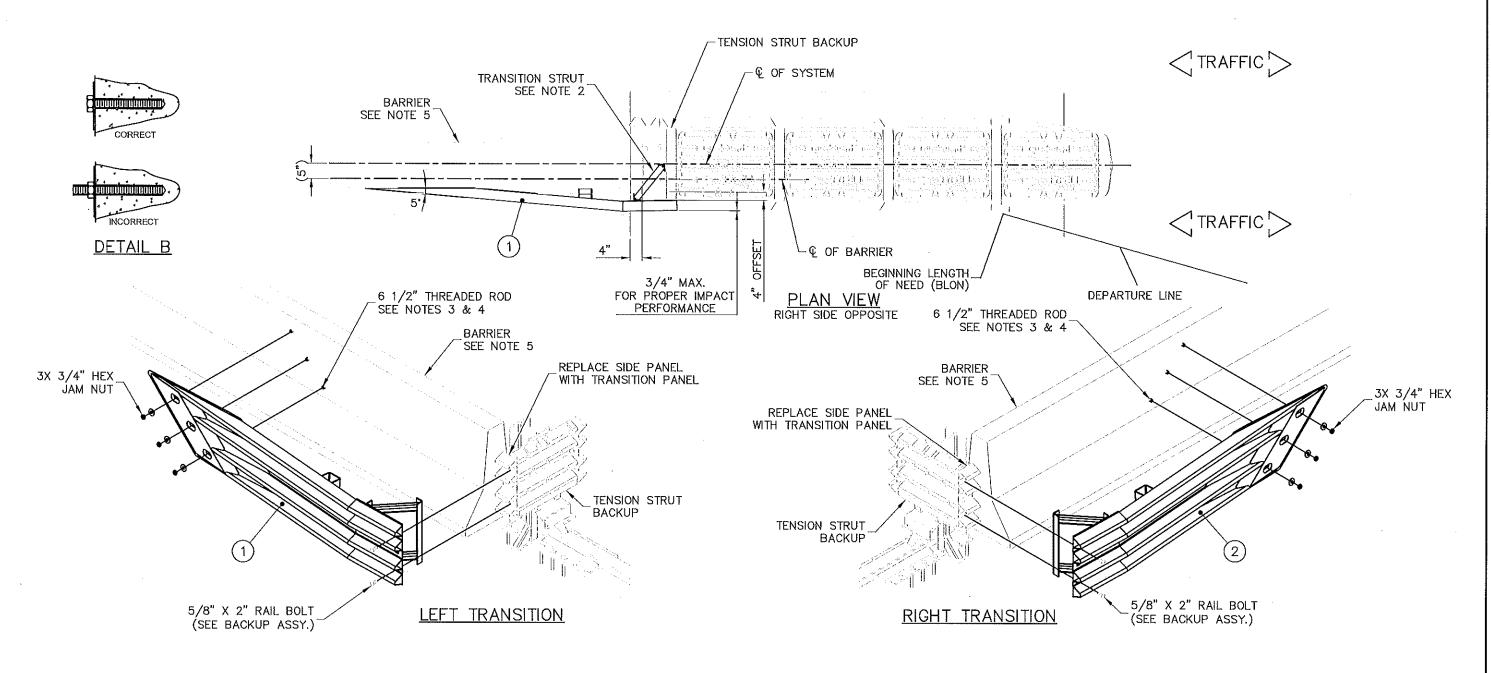


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② WHEEL DEFLECTOR

1 TRANSITION PANEL



- 1. IMPACT FORCES COULD BE TRANSFERRED INTO TERMINAL END OF THE BARRIER. ADEQUATE ANCHORAGE IS REQUIRED FOR PROPER IMPACT PERFORMANCE.
- 2. POSITION TRANSITION STRUT TO CONTACT (1/4" GAP ACCEPTABLE) WIDE FLANGE BEAM OF BACKUP BEFORE ATTACHING TO BACKUP AND ANCHORING TO BARRIER.
- 3. USE TRANSITION PANEL AS TEMPLATE FOR DRILLING. ENSURE FLUSH FIT TO BARRIER. RECOMMENDED HOLE DEPTH 5. FINAL TORQUE TO BE 100 FT-LBS (TYP).
- 4. ANCHOR STUD END SHOULD BE FLUSH WITH OUTSIDE SURFACE OF ANCHOR NUT, SEE DETAIL B.

4. ANCHOR STUD END SHOULD BE FLUSH WITH 5. STATE APPROVED SAFETY SHAPE (NJ, F, K)	CONCRETE BARRIER.
KEY	Jun O. CEN & CEN & CONTROLLE
① TRANSITION ASSY, 4 IN, L ② TRANSITION ASSY, 4 IN, R	No 75091 8-24-2022 *
	TITO ORIDACINA.

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			TRAFFIC DIRECTION: BIDIRECTIONAL						
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.DGUARD® M10 24" TL-2 (PERMANENT) TO SAFETY SHAPE CONCRETE BARRIER

APL 544-002-003

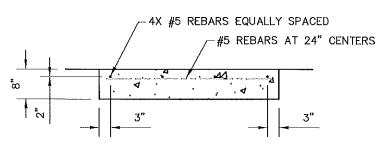
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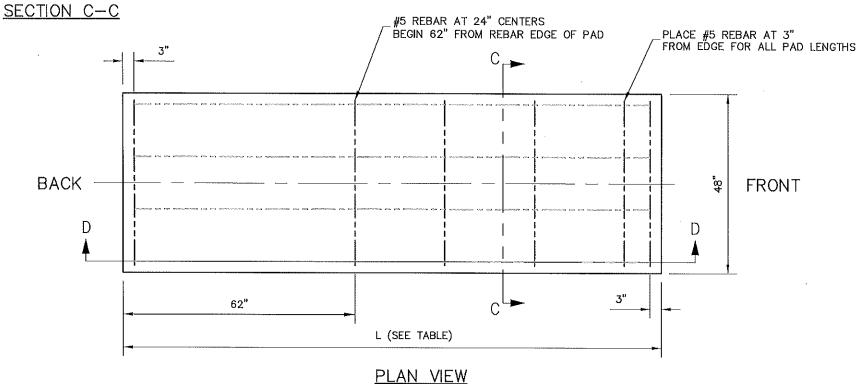
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TABLE NO. OF (PAD LENGTH) 3 12'-0" 68'-0" 2.4	4X #5 REBARS EQUAL #5 REBAR W 3"	RS AT 24" CENTERS				
	SECTION A-A	3"	#5 REBAR AT 24" CENTE BEGIN 62" FROM REBAR	ERS EDGE OF PAD PLACE #5 RE FROM EDGE	EBAR AT 3" FOR ALL PAD LENGTHS	
		common and and another the arise and activation and and are also administration and an are	SECTION SET TO SECURITY OF THE EXPERIENCE AND THE EXPERIENCE AND THE EXPERIENCE AND	The experimental way was approximated a size of the experiments.		
	BACK —	THE RESERVE AND ALL PROPERTY OF THE PROPERTY OF THE PROPERTY AND ASSESSMENT TO THE PROPERTY OF	AND		FRONT	
	B -	THE REAL PROPERTY AND ADDRESSED ADDRESSED AND ADDRESSED ADDRESSED AND ADDRESSED ADDRESSED AND ADDRESSED ADDRESSED ADDRESSED	PORTINGEN PRI	B		
		62"	L (SEE TABLE)	3"	- -	
	*		<u>PLAN VIEW</u>	·		
NOTES: 1. CROSS SLOPE OF PAD SHALL NOT EXCEED 1:10 AND NOT VARY MORE THAN 2% FROM FRONT TO BACK.	92		SECTION B-B	4000 P.S.I. MINIMUM P.C. CONCRETT AND ANCHOR BLOCK (145 lbs/CU,	E PAD FT.)	
2. ANCHOR BLOCK LOCATION IS RECOMMENDED AT BACK OF CONCRETE PAD. EXISTING CONCRETE PADS OR NEW PADS WITH BELOW GROUND OBSTRUCTIONS ARE ACCEPTABLE WITH ANCHOR BLOCKS LOCATED AT THE FRONT OF THE PAD.		ARET R. ECATOR		·		
	* PROF	No 75091 8-24-2022 But Ehat STATE OF	DRAWN: J. SIMMONS CHECKED: B. ECKERT UNLESS OTHERWISE NOTED, DIMENSIONS ARE IN INCH. DIMENSIONS ACCORDING TO ASME Y14.5-2019 AND DIMS-SE-003 UNLESS OTHERWISE SPECIFIED. REVISION DESCRIPTION UPDATED APL NUMBER WAS SHEET 5		UARD® M10 24" TL-2 (PERMANEN INCRETE PAD WITH ANCHOR BLOCK APL 544-002-003 FLORII	VALTIR
	~,	NONAL ENGLIS	BORDER WAS THP BORDER	8151 08/17/22 C RJV RCB	60-45-47 C	SHEET:

	TA	BLE	
 NO. OF BAYS	"L" (PAD LENGTH)	REBAR REQUIRED	YARDS ³ OF CONCRETE IN PAD
, 3	12'-0"	68'-0"	1.2

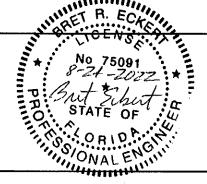




SECTION D-D 4000 P.S.I. MINIMUM P.C. CONCRETE PAD AND ANCHOR BLOCK (145 lbs/CU. FT.)

NOTES:

- 1. CROSS SLOPE OF PAD SHALL NOT EXCEED 1:10, AND NOT VARY MORE THAN 2% FROM FRONT TO BACK.
- 2. TO PREVENT SLIDING DURING AN IMPACT, PAD MUST BE INSTALLED AGAINST OR TIED TO AN EXISTING STRUCTURE, OTHERWISE ADDITIONAL BELOW GRADE SUPPORTS MUST BE ADDED AS DETERMINED NECESSARY BY THE PROJECT ENGINEER.



J. SIMMONS	DATE: 04/09/2020	MODEL:	N	/A			QU
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UPDATED APL NUMBER, TABLE	, and notes	7204	06/05/20	Α	JMS	BRE	
WAS SHEET 6		7427	05/27/21	В	JMS	BRE	DRAW
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UADGUARD® M10 24" TL-2 (PERMANENT) CONCRETE PAD, 8" REINFORCED

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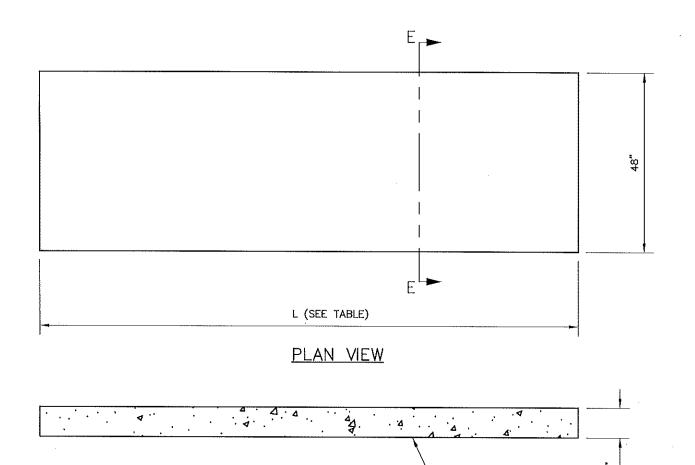
FLORIDA C

11 of 13

	TABLE	
NO, OF BAYS	"L" (PAD LENGTH)	YARDS ³ OF CONCRETE IN PAD
3	12'-0"	1.2



SECTION E-E



ELEVATION VIEW

NOTES:

- 1. CROSS SLOPE OF PAD SHALL NOT EXCEED 1:10, AND NOT VARY MORE THAN 2% FROM FRONT TO BACK.
- 2. TO PREVENT SLIDING DURING AN IMPACT, PAD MUST BE INSTALLED AGAINST OR TIED TO AN EXISTING STRUCTURE. OTHERWISE ADDITIONAL BELOW GRADE SUPPORTS MUST BE ADDED AS DETERMINED NECESSARY BY THE PROJECT ENGINEER.

HINT R. ECKNING	
S. O. TICENS STATE	J. SIMMONS
* No 75091	CHECKED: B. ECKERT
8-24-2022 * But 5 h.t	UNLESS OTHERWISE NOTED, DIMENS DIMENSIONS ACCORDING TO ASME Y14.5 UNLESS OTHERWISE SPE
STATE OF	REVISION DESCRIPTION
A. A	ADDED THIS SHEET, SHEET 12
ONAL ENGLY	BORDER WAS THP BORDER
ORIDACIA.	
. attitities.	

J. SIMMONS	01/04/2021	MODEL:	N	/A			QU.
CHECKED: B. ECKERT	01/07/2021	TRAFFIC DIRECTION: N/A			•		
UNLESS OTHERWISE NOTED, D DIMENSIONS ACCORDING TO ASM UNLESS OTHERWIS	Y14.5-2018 AND QMS-SE-003		OT SCALE AWING	E	\rightarrow	⊕	
REVISION DESCRIPTION		ECO	DATE	REV	BY	СНК	1
ADDED THIS SHEET, SHEET	12 BECAME SHEET 13	7247	05/27/21	В	JMS	BRE]
BORDER WAS THP BORDER		8151	08/17/22	С	RJV	RCB	DRAWN

4000 P.S.I. MINIMUM P.C. CONCRETE PAD AND ANCHOR BLOCK (145 lbs/CU, FT.)

> UADGUARD® M10 24" TL-2 (PERMANENT) CONCRETE PAD, 8" NON-REINFORCED

> > APL 544-002-003

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	Z VALTIR	L.C. All rights reserve
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FLORIDA REV:

