

GENERAL NOTES

1. FOR SPECIFIC INFORMATION REGARDING INSTALLATION AND TECHNICAL GUIDANCE OF THE SYSTEM, CONTACT: TRINITY HIGHWAY - ENERGY ABSORPTION INC. AT 1(888)323-6374.

2. SEE THE RECENT QUADGUARD ELITE MID WIDE PRODUCT DESCRIPTION ASSEMBLY MANUAL FOR IMPACT PERFORMANCE CHARACTERISTICS AND DESIGN LIMITATIONS AND THE DRAWING PACKAGE FOR THE WIDE 69" SYSTEM BEFORE INSTALLING THE QUADGUARD ELITE M10 AT ANY GIVEN LOCATION.

3. FOR BI-DIRECTIONAL TRAFFIC: THE LOCATION AND OR WIDTH OF THE QUADGUARD ELITE M10 WIDE 69" IS RESTRICTED. AS BI-DIRECTIONAL TRAFFIC APPROACHES THE REAR OF THE QUADGUARD ELITE MIO WIDE 69", THE QUADGUARD ELITE MIO SHOULD NOT EXTEND FURTHER INTO THE TRAFFIC-SIDE OF THE BARRIER THAN THE OBSTACLE. ANY TRANSITION INSTALLED MUST EITHER BE TANGENT TO BOTH QUADGUARD ELITE M10 AND OBSTACLE OR MUST ANGLE TOWARD FIELD SIDE OF THE BARRIER.

4. SYSTEM TRANSITION: APPROPRIATE TRANSITION PANELS OR SIDE PANELS WILL BE REQUIRED FOR PROPER IMPACT PERFORMANCE. THE CORRECT PANEL(S) TO USE WILL DEPEND ON THE DIRECTION OF TRAFFIC FLOW AND WHAT TYPE OF BARRIER OR ROAD FEATURE THE QUADGUARD ELITE MIO SYSTEM IS SHIELDING. SEE THE QUADGUARD ELITE MIO WIDE [69"] PRODUCT DESCRIPTION & ASSEMBLY

5. COMPONENTS FOR THE QUADGUARD ELITE (M10) BACKUP AND REINFORCING DETAILS ARE SHOWN ON THE QUADGUARD ELITE MIO WIDE PRODUCT DESCRIPTION & ASSEMBLY MANUAL.

6. CONCRETE PAD SHALL BE 6" MIN. REINFORCED 28MPo [4,000 PSI] (P.C.) OR 8" MIN. NON-REINFORCED 28MPg [4,000 PSI] CONCRETE ROADWAY MEASURING AT LEAST 12'-0" WIDE BY 50'-0" LONG. ANCHOR BLOCK IS NOT REQUIRED WHEN USING 8" CONCRETE PAD INSTALLED AGAINST AN IMMOVABLE STRUCTURE, E.G. CONCRETE WALL

7. IF THE CROSS-SLOPE VARIES MORE THAN 2% OVER THE LENGTH OF THE SYSTEM, THE CONCRETE PAD WILL REQUIRE LEVELING. MAXIMUM PERMISSIBLE CROSS-SLOPE IS 8%.

8. THE INSTALLATION AREA SHOULD BE FREE OF CURBS, ELEVATED OBJECTS, OR DEPRESSIONS.

THE QUADGUARD ELITE MID SYSTEM SHOULD BE INSTALLED APPROXIMATELY PARALLEL WITH THE

10. FOR THE TENSION STRUT BACKUP, THE DISTANCE BETWEEN THE BACK OF BACKUP AND THE BARRIER WALL SHOULD NOT EXCEED 7" IN ANY CASE.

11. THE WIDE QUADGUARD ELITE MIO SYSTEM IS ONLY AVAILABLE IN A 69" WIDTH.

FOUNDATION & ANCHORING REQUIREMENTS FOUNDATION TYPES: A, B, C, & D							
	REINFORCED CONCRETE PAD OR ROADWAY 6" MINIMUM DEPTH (P.C.C.) 7" STUDS EMBEDDED 5 $\frac{1}{2}$ " - APPROVED ADHESIVE						
TYPE: B :	ASPHALT OVER P.C.C. 3" MIN. (A.C.) OVER 3" MIN. (P.C.C.) 18" THREADED ROD EMBEDDED 16 1/2" - APPROVED ADHESIVE						
TYPE:C	ASPHALT OVER SUBBASE 6" MIN. (A.C.) OVER 6" MIN. (C.S.) 18" THREADED ROD EMBEDDED 16 1/2" - APPROVED ADHESIVE						
TYPE:D	ASPHALT ONLY 8" MIN. (A.C.) 18" THREADED ROD EMBEDDED 16 1/2" - APPROVED ADHESIVE						

PORTLAND CEMENT CONCRETE (P.C.C.)

LOW MAINTENAN

TO REPLACE THE PRODUCT DESCRIPTION ASSEMBLY MANUAL.

NOTE: SEE TRINITY'S PRODUCT DESCRIPTION ASSEMBLY MANUAL FOR THE APPROVED ADHESIVE.

IF THE UNIT IS ANCHORED TO ASPHALTIC CONCRETE, IT SHOULD BE RELOCATED TO FRESH, UNDISTURBED ASPHALT AND RE-ANCHORED AFTER EACH IMPACT TO ENSURE ADEQUATE FUTURE

TENSION STRUT BACKUP MAY BE USED IN CONSTRUCTION ZONES ON ASPHALT CONCRETE (A.C.)

	Texas Department of Transportation					Design Division Standard			
	TRINITY HIGHWAY ENERGY ABSORPTION QUADGUARD ELITE M10 WIDE (MASH TL-3) QGELITE (M10) (W)-20								
	FILE: qgelitem10w20.dgn	DN: T ×(от	СК:КМ	DW:SS	CK:AG			
	C TxDOT: NOVEMBER 2020	CONT	SECT JOB			HIGHWAY			
	REVISIONS								
CE		DIST	COUNTY			SHEET NO.			