



- NOTES:
- IN COMPLIANCE WITH THE AASHTO 1998 ROADSIDE DESIGN GUIDE, MANUFACTURER RECOMMENDS REMOVAL OF ALL CURBS AND ISLANDS TO ENSURE PROPER IMPACT PERFORMANCE.
 - PROVISION SHALL BE MADE FOR REAR FENDER PANELS TO SLIDE REARWARD UPON IMPACT 635 [25.00] MIN.
 - 150 [6.00] MIN. REINFORCED 28 MPa [4000 PSI] P.C. CONCRETE PAD OR 200 [8.00] MIN. NON-REINFORCED 28 MPa [4000 PSI] P.C. CONCRETE ROADWAY.
 - SEE THE "QUADGUARD ELITE SYSTEM DESIGN MANUAL" FOR A DESCRIPTION OF ITS IMPACT PERFORMANCE CHARACTERISTICS AND DESIGN LIMITATIONS BEFORE PLACING A SYSTEM AT A GIVEN SITE. INFORMATION AND COPIES OF ABOVE MANUAL ARE AVAILABLE BY CALLING CUSTOMER SERVICE DEPARTMENT AT 1-888-33-EMERG.

- WHERE NECESSARY, THE CUSTOMER SHALL SUPPLY A TRANSITION FROM THE QUADGUARD SYSTEM TO THE OBJECT BEING SHIELDED.
- UNITS OF MEASUREMENT ARE MILLIMETERS [INCHES] UNLESS OTHERWISE NOTED.
- BACKUP ASSEMBLY NOT INCLUDED IN MODEL NUMBER.

* Y=YELLOW NOSE
G=GRAY NOSE

UNIDIRECTIONAL
MODEL NO. QS9007E*

REVISIONS	① QUADGUARD ELITE CYLINDER	④ MONORAIL	⑦ HIT INDICATOR		
	② DIAPHRAGM	⑤ NOSE ASSEMBLY			
	③ FENDER PANEL	⑥ BACKUP			
Revisions	Date	Rev.	By	Ckd.	App.

REFERENCES	
SERIAL#	FENDER PANEL ASSY. 3540472-0000
SALES ORDER#	BACKUP ASSY. 3540396-0000
EH PROJECT#	RAIL ASSY. 3540482-0000
DESIGN SPEED	CONCRETE PAD 3540483-0000
NOSE COLOR	BAY ASSY. 3540494-0000
NUMBER OF UNITS	CHAIN ASSY. 3540491-0000
DIAPHRAGM ASSY.	HIT INDICATOR ASSY. 3540463-0000
	NOSE ASSY. 3540496-0000

DESIGNED BY	D. Staus	DATE	2/2/99
DRAWN BY	R. Blockl	DATE	2/2/99
CHECKED BY	KRM	DATE	2/3/99
APPROVED BY	RBB	DATE	2/3/99
CAD FILE	QL2TSCVR-U90.dwg		

ENERGY ABSORPTION SYSTEMS, INC.
ENGINEERING AND RESEARCH DEPARTMENT

QUADGUARD® ELITE™ SYSTEM
90° SYSTEM W/83° TENSION STRUT BACKUP

SCALE: 1=50 PART: QL2TSCVR-U90 SHEET: 1 of 1 REV: