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## GENERAL NOTES:

Construction Specification - Arizona Department of Transportation Standard Specifications for Road and Bridge Construction, latest Edition.

Design Specifications - AASHTO LRFD Bridge Design Specifications, 8th Edition 2017.

This barrier has been evaluated and approved to be of equal strength to barriers with like geometry, which were successfully crash tested to meet MASH 16 requirements for Test Level 4.

Design Loads:

Dynamic Load (For barrier Design) =  $80^{k}$ 

Dynamic load is based on NCHRP 20-07(395) MASH Equivalency of NCHRP Report 350 -Approved Bridge Railings.

Equivalent Static Load (For footing design) =  $28^{\kappa}$ 

Footing design is based on NCHRP Report 663.

All Concrete shall be Class "S" (f'c = 4000 psi).

Reinforcing steel shall conform to ASTM Specification A615. All reinforcing shall be furnished as Grade 60. All reinforcing shall be epoxy coated at locations above EL. 4000 ft.

All bends and hooks shall meet the requirements of AASHTO LRFD Article 5.10. All bend dimensions for reinforcing steel shall be out-to-out of bars. All placement dimensions for reinforcing steel shall be to center of bars unless noted otherwise.

All reinforcing steel shall have  $1\frac{1}{2}$  inch clear cover unless noted otherwise.

Structural tubing (TS) shall be ASTM A500 Grade B. All other structural steel shall conform to ASTM A36 unless noted otherwise.

All welding shall conform to the requirements of the American Welding Society, ANSI/AASHTO/ AWS D1.5 Bridge Welding Code, latest Edition.

Concrete parapets on continuous superstructures shall have  $\frac{1}{2}$  bituminous joint filler in open ioints over piers.

Imbed  $\frac{1}{2}$ ", Bridge Number and Year Built, using  $1\frac{1}{2}$  "w x 2"h number impressions in concrete, located as shown at the approach end of the outside lane.

Labor and materials for railing, footing, anchorage bars, parapet, dado, sidewalk and Pedestrian Fence (SD 1.13) are all included in the pay item (Item No. 6011132).

Dimensions shall not be scaled from drawings.

ltem	Combination Pedestrian-Traffic Bridge Railing	
ltem No.	6011132	
Measurement	Linear Foot	

	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION BRIDGE GROUP STANDARD DRAWING		
04/27	COMBINATION PEDESTRIAN-TRAFFIC BRIDGE RAILING	DRAWING NO.	
110N 04/23 DATE	DRIDGE RAILING	50 ML	