

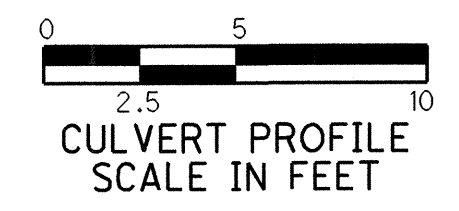
PROPOSED STRUCTURE DATA	EXISTING STRUCTURE DATA
TYPE: Prefabricated Reinforced Concrete Box Culvert SPAN LENGTH: 16.0' Along \bar{C} ROADWAY WIDTH: 30.0' f/f Rail LOADING: HL93, FWS = 60 PSF SKEW: None ALIGNMENT: Tangent CROWN: Normal WEARING SURFACE: Asphalt Concrete Pavement STRUCTURAL FILE NUMBER: 3802116 APPROACH SLAB: None	TYPE: Corrugated Metal Pipe Arch SPAN LENGTH: 15.0' Along \bar{C} ROADWAY WIDTH: 28.03' f/f Rail LOADING: H-15 SKEW: 15° Lt. Fwd. ALIGNMENT: Tangent CROWN: Normal WEARING SURFACE: Asphalt Concrete Pavement STRUCTURAL FILE NUMBER: 3802108 APPROACH SLAB: None DATE BUILT: 1937

CALCULATIONS

ITEM 601 - ROCK CHANNEL PROTECTION, TYPE B WITH AGGREGATE FILTER

CADD AREA = 376.1 S.F.
 $376.1 \text{ s.f.} \times 2.5' \div 27 = 34.8 \text{ C.Y. (use 35 C.Y.)}$

Quantity Carried To General Summary



HYDRAULIC DATA		
DRAINAGE AREA = 421 Acres (0.66 sq. miles)		
DISCHARGE	VELOCITY	HEADWATER ELEVATION
$Q_{10} = 251 \text{ cfs}$	5.60 ft/s	1018.76
$Q_{100} = 495 \text{ cfs}$	9.38 ft/s	1020.45

