

PRELIMINARY STRUCTURE COST ESTIMATE

The charts on the following sheets provide cost per square foot data for the preliminary estimate of total structure cost. The costs apply to ordinary structure types. The preliminary square foot cost should be increased by 30% to account for unknown contingency items. The data is based upon the low bid from projects awarded thru March 2018.

The total cost per square foot includes all the bid items necessary to construct the structure except for the following:

- Preliminary Engineering
- E & C
- Traffic Control

The costs for Repair and Rehabilitation projects require an individual estimate of cost for each project because of the wide diversity of work. Consult with the Group Leader/Bridge Engineer to obtain costs from similar projects.

Cost data is available for the following types of structures:

NEW CONSTRUCTION

- CULVERTS
- PRESTRESSED GIRDERS
- STEEL GIRDERS
- PEDESTRIAN BRIDGES

MISCELLANEOUS

- RETAINING WALLS
- WIDEN CULVERTS

PRELIMINARY STRUCTURE COST ESTIMATE

NEW CONSTRUCTION

STRUCTURE TYPE	Costs through March 2018 Increase costs by 30%
BOX CULVERTS	COST/OPENING SQ FT/LF
CAST-IN-PLACE	\$40
PRECAST	\$35
STIFFLEG CULVERTS	COST/OPENING SQ FT/LF
CAST-IN-PLACE	\$35
PRECAST	\$30
PRESTRESS GIRDERS OVER WATER	COST/SQ. FOOT OF DECK PLAN AREA
AASHTO, BULB TEE, DECK TEE	\$200
VOIDED SLAB, TRIDECK	\$260
PRESTRESS GIRDERS OVER HIGHWAY/RR	COST/SQ. FOOT OF DECK PLAN AREA
AASHTO, BULB TEE, DECK TEE	\$260
STEEL GIRDERS	COST/SQ. FOOT OF DECK PLAN AREA
WELDED PLATE	\$245
PEDESTRIAN BRIDGES	COST/SQ. FOOT OF DECK PLAN AREA
UNDERPASS	\$210
OVERPASS	\$220

Deck Plan Area = (out-out deck width)*(out-out bridge length)

Culvert Opening = (clear span)*(clear height)

PRELIMINARY STRUCTURE COST ESTIMATE

MISCELLANEOUS STRUCTURES

STRUCTURE TYPE	COST/SQUARE FOOT
	through March 2018
RETAINING WALLS	
C-I-P CONCRETE WALLS	\$75
SOUND WALLS	\$30
SOLDIER PILE WALLS	\$200
SOIL NAIL WALLS	\$100

Retaining Wall Area = (height of wall)*(length of wall)