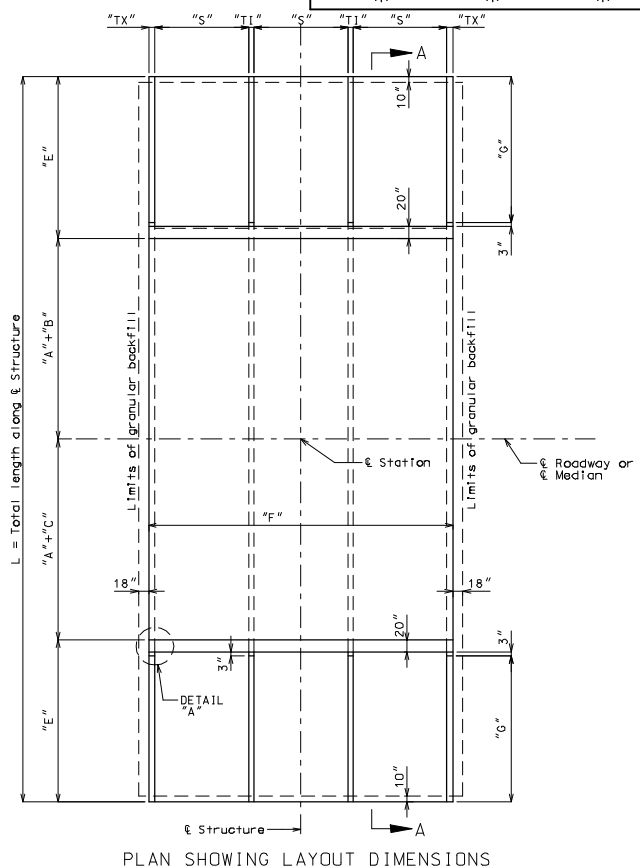
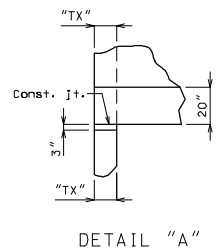
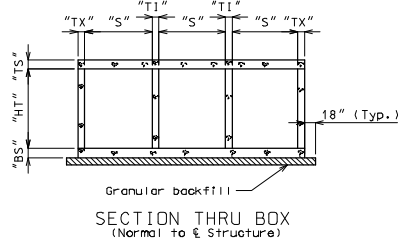
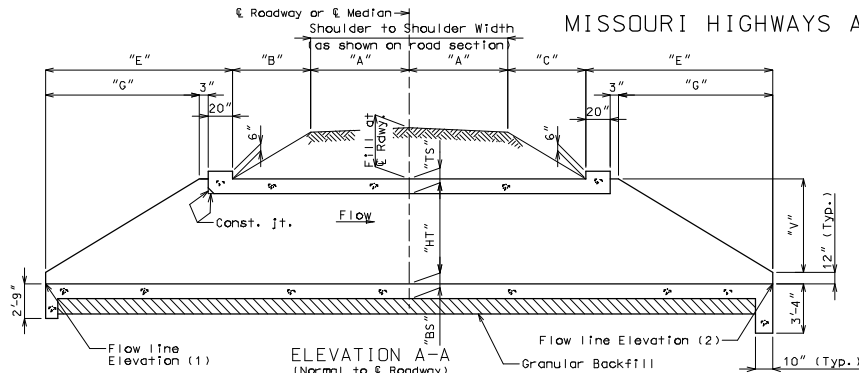


MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

ROUTE	STATE	DISTRICT	SHEET NO.
* MO	BR	*	*
JOB NO. *			
CONTRACT ID.			
PROJECT NO.			
COUNTY *			
DATE			
SEC/SUR *		TWP *	RGE *

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."



Note: Slope of bottom slab shall be placed at natural stream gradient.
If unsuitable material is encountered, excavation of unsuitable material and furnishing and placing of granular backfill shall be in accordance with Sec 206.

VARIABLE	EQUATION	DIM.
"S"	---	
"HT"	---	
"TS"	---	
"BS"	---	
"TX"	---	
"TI"	---	
"A"	---	
"B"	---	
"C"	---	
"E"	G + 23"	
"F"	3S + 2TX + 2TI	
"G"	2V	
"L"	2A + B + C + 2E	
"V"	HT + TS - 12"	

Design Ffill (*):	
Elev. (1)	feet
Elev. (2)	feet

* Design ffill height is the distance from top of earth fill or roadway to the top of the top slab.

Sta. =
Pr. Gr. Elev. at Sta. =
Ffill at Rdwy. at Sta. =

Drainage Area =	(sq. mi.)
Design High Water (DHW) Elev. =	
Design High Water Frequency =	(year)
Design High Water Discharge =	(cfs)
Backwater/Base Flood Data (100 year)	
High Water Elev. =	
Design Discharge =	(cfs)
Estimated Backwater =	(ft)
Outlet Velocity =	(ft/sec)
Roadway Overtopping	
Design Elev. (1' below shoulder) =	
Design Discharge =	(cfs)
Design Frequency =	(year)

GENERAL NOTES:
Design Specifications: 2002 - AASHTO 17th Edition Load Factor Design
Design Unit Stresses: Class B-1 concrete f'c = 4,000 psi Reinforcing steel (Grade 60), fy = 60,000 psi

Design Loading: HS20-44 HS20 Modified
Earth 120 #/ft.³
Equivalent fluid pressure 30 #/ft.³ (Min.) - 60 #/ft.³ (Max.)
All elevations shown are in feet unless otherwise noted.

The box shown below indicating whether a precast or ctp box was used should be checked by McdOT construction personnel:
 Precast Box used
 Cast-in-Place Box used

When alternate precast box sections are used, the minimum barrel length measured along the shortest wall from the first joint to the outside of the headwall, shall be 3'-2". Reinforcement and dimensions for the wings and headwalls shall be in accordance with Missouri Standard Plans drawing.

Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

"Sec" refers to the sections in the standard and supplemental specifications unless specified otherwise.

	cu. yard	lump sum	cu. yard	pound	FINAL QUANTITIES
Class 4 Excavation					
Removal of Bridges					
Class B-1 Concrete (Culverts-Bridge)					
Reinforcing Steel (Culverts-Bridge)					

B.M.
BRIDGE
STATE ROAD
ABDUT
STA.

STD.
STD.
STD.
STD.
BOX 7

LOCATION SKETCH
Designed
Detailed
Checked

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.