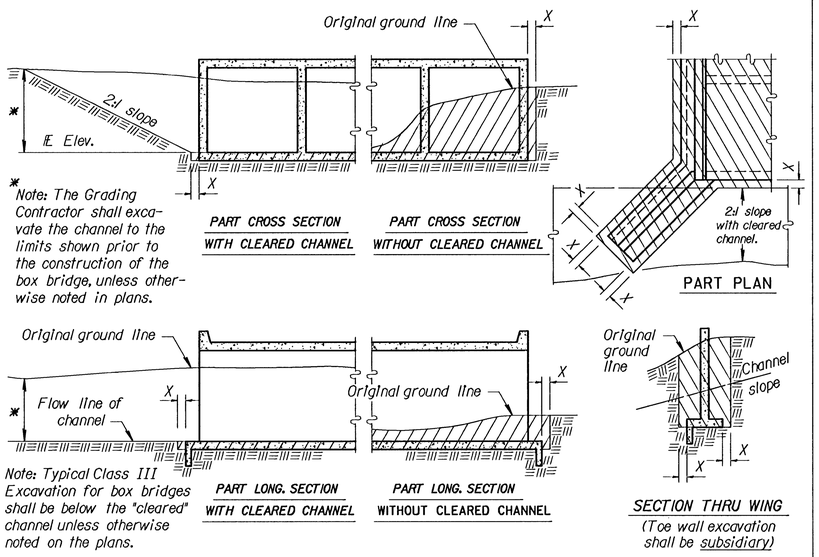
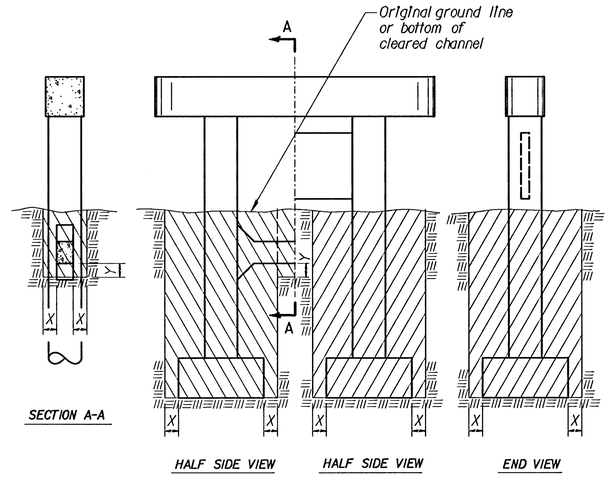
FHWA REGION NO.	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS	87N 0064-01	1997	44	130



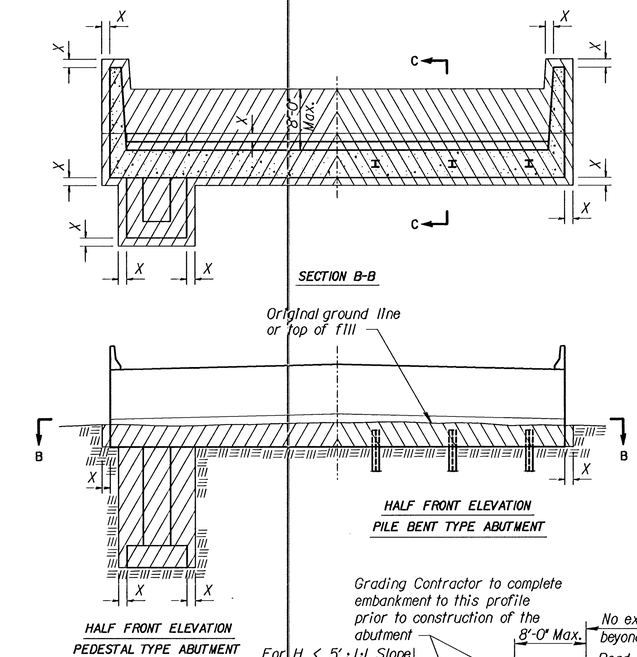
EXCAVATION DETAILS FOR REINFORCED CONCRETE BOX CULVERT

Note: Excavation for culverts less than bridge length shall not be paid for as Class III Excavation but shall be subsidiary to Class AAA Concrete.

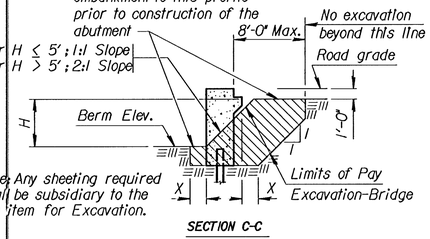


EXCAVATION DETAILS FOR TYPICAL PIERS

See detail when rock or shale (rock) is encountered. ⊛



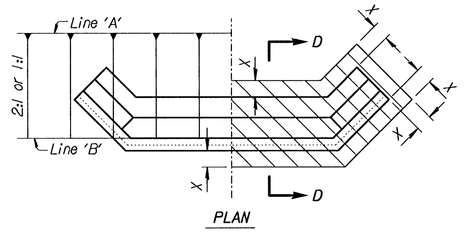
Note: Bridge Contractor shall finish the embankment and berms after the construction of the abutment and dispose of any excess material as approved by the Engineer.

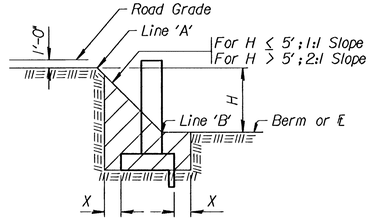


Note: Any sheeting required shall be subsidiary to the bid item for Excavation.

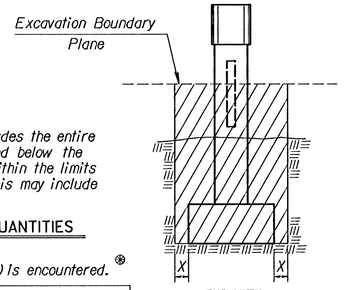
EXCAVATION DETAILS FOR TYPICAL ABUTMENTS

See detail when rock or shale (rock) is encountered. ⊛





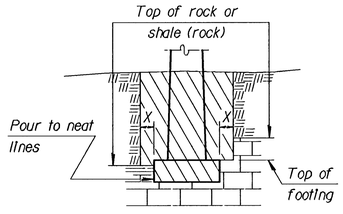
EXCAVATION DETAILS FOR ABUTMENTS WITH FLARED WINGWALLS



Note: Class II Excavation includes the entire volume of whatever nature found below the "Excavation Boundary Plane", within the limits specified for measurement. This may include water or air.

CLASS II EXCAVATION QUANTITIES

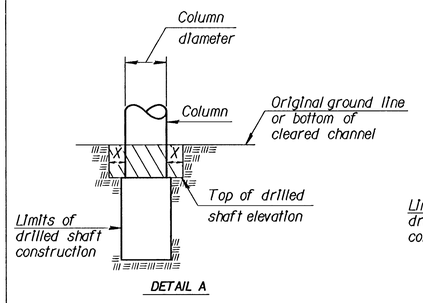
See detail when rock or shale (rock) is encountered. ⊛

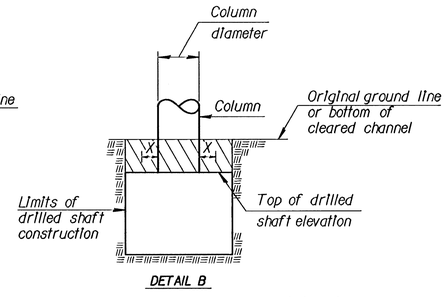


⊛ EXCAVATION DETAIL FOR FOOTINGS IN ROCK OR SHALE (ROCK)

(Piers and Abutments)

Note: Excavation below top of rock, hard shale or below top of footing, whichever is lower, shall be to neat lines of the concrete construction.





DRILLED SHAFT DETAILS

Note: Whenever the limits of the drilled shaft construction are greater than the Column Diameter + 2X, the limits of Class I, II or III Excavation shall be the limits of the drilled shaft construction. (See Detail B)

Note: All bridge excavation shall be computed on the basis of the cross-hatch areas and boundary lines indicated on this sheet and the Excavation Boundary Plane on the Construction Layout.

Sides of trenches in hard or compacted soil including embankments shall be shored, sheeted, braced or otherwise supported when the trench is more than 5 feet in depth and 8 feet or more in length. In lieu of the shoring, the sides of the trench above the 5 foot level may be sloped to preclude collapse. The slope for average soils shall be 1:1. If the angle of repose of the soil is less, flatter slopes shall be required.

Dimension "X" shall be 2'-0" unless indicated otherwise on the general plans.

Dimension "Y" shall be 1'-6" unless indicated otherwise on the general plans.

NO.	DATE	REVISIONS	BY	APP'D
5	8-12-95	Concrete Seating @ Abutment	LBB	KEH
4	1-30-95	Drilled Shaft Excavation	LBB	KEH
3	7-26-94	Change Limits at Abutment	LBB	KEH
2	1-26-93	Add Class 2 & Flared Wing det.	LBB	KEH
1	4-6-90	Change limits at abutments	LBB	KEH

KANSAS DEPARTMENT OF TRANSPORTATION

BRIDGE EXCAVATION

BRIOO

FHWA APPROVAL		9-8-95	APP'D		KENNETH F. HURST
DESIGNED		DETAILED	BDB	QUANTITIES	CADD
DESIGN CK.		DETAIL CK.	LBB	QUAN. CK.	CADD CK.

Plotted By : $$USERNAME$$
Plot File : $$$$$$$$$$$$$$$$DGNSPEC$$$$$$$$$$$$$$$$
Plot Date : $$$$$$$$TIME$$$$$$$$
Std. Base File : /usr2/stdnd/usr/br100.dgn
Server File : /usr2/
Server : witch
View= PLOT1_