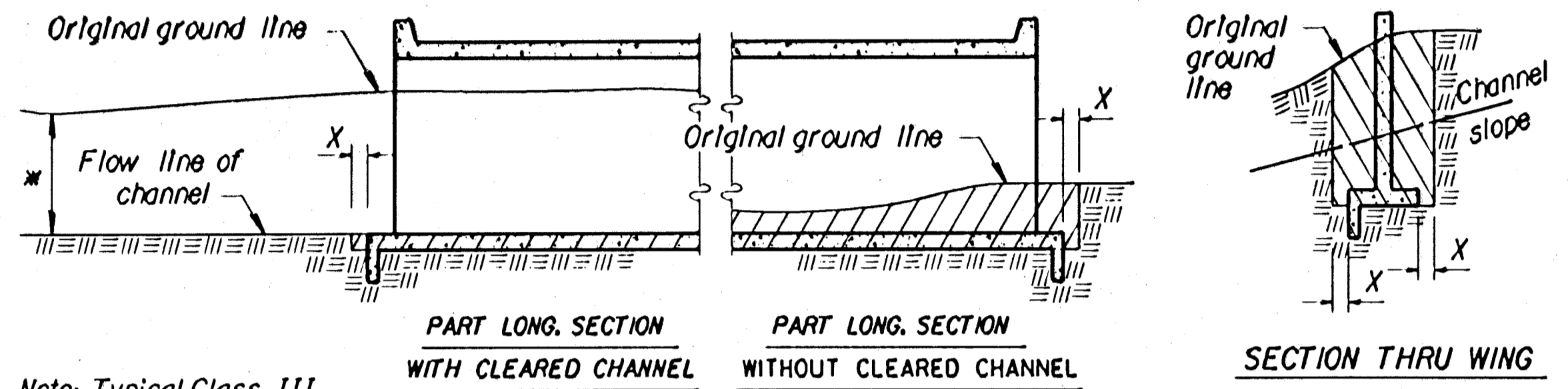
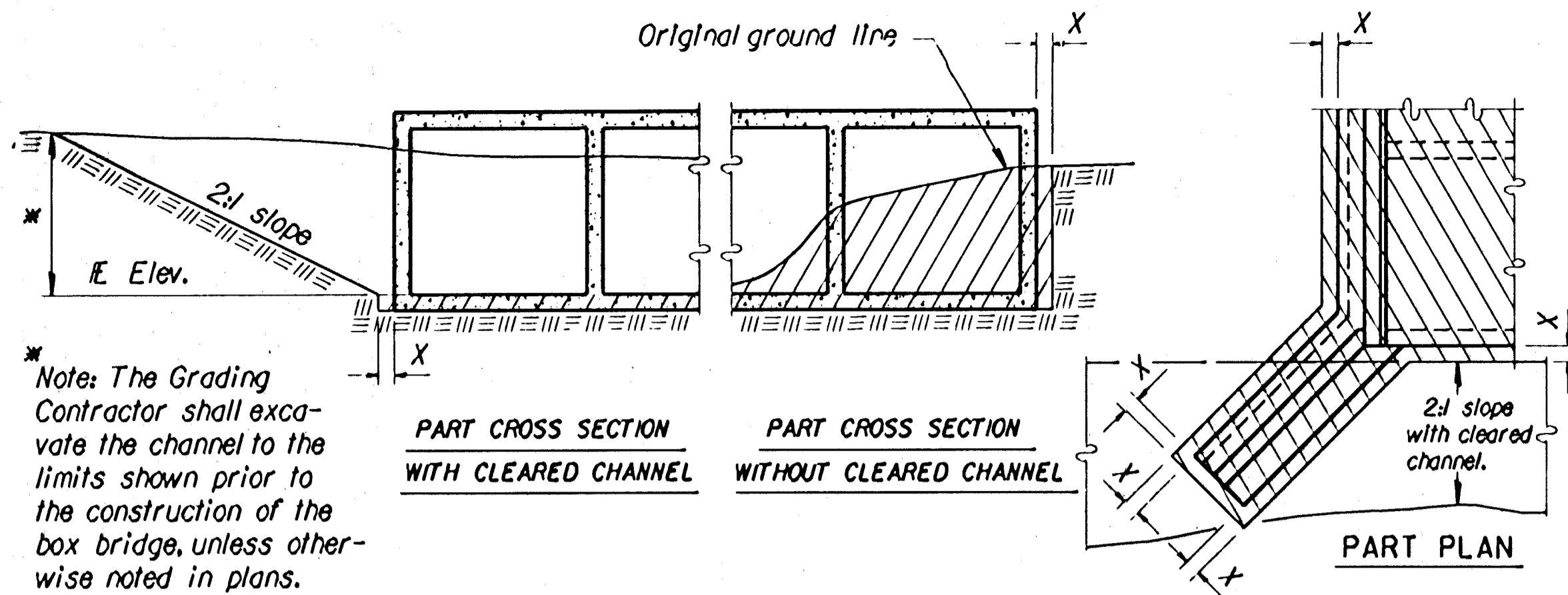


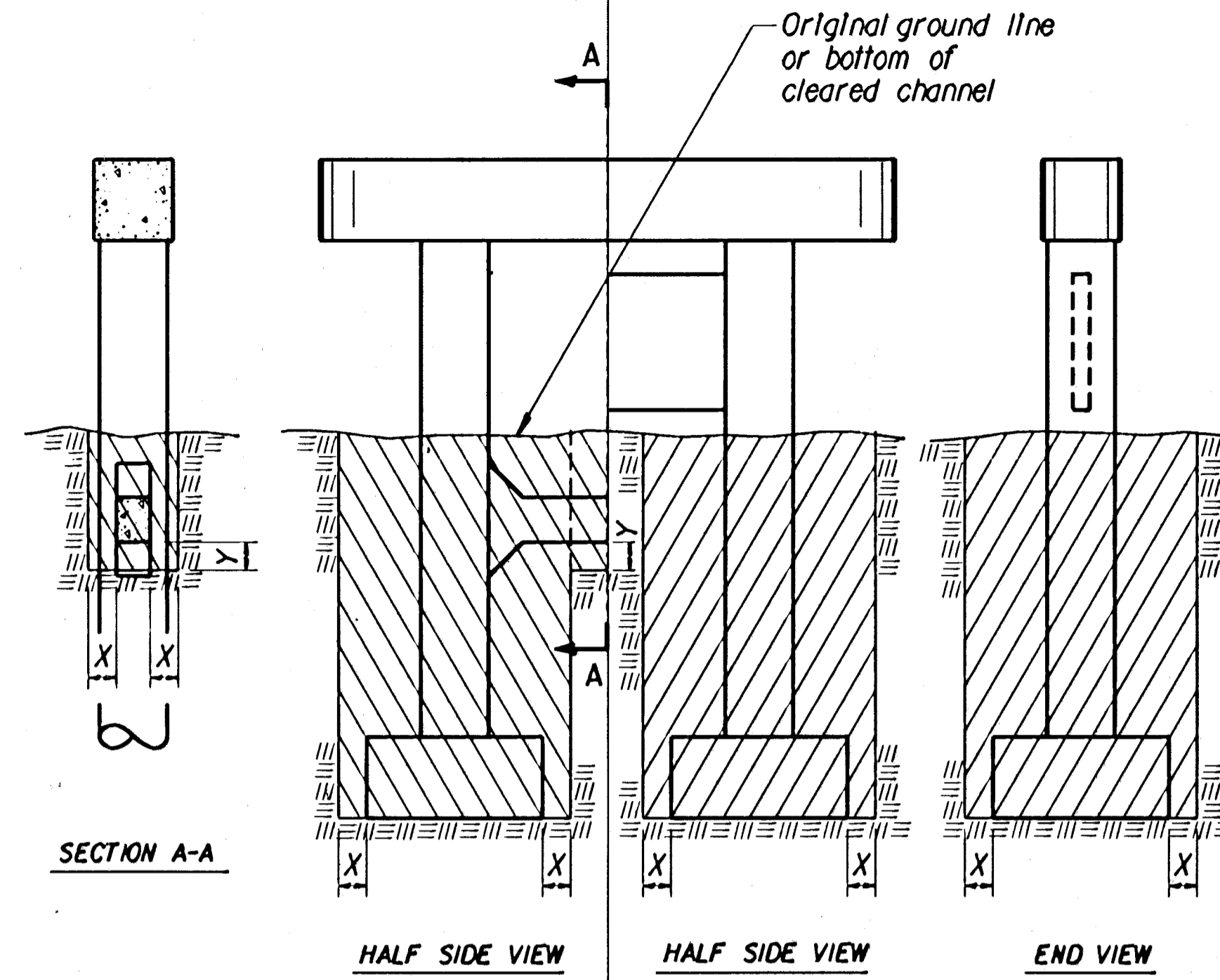
FHWA REGION NO.	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS	87U-1247-01	1992	45	79



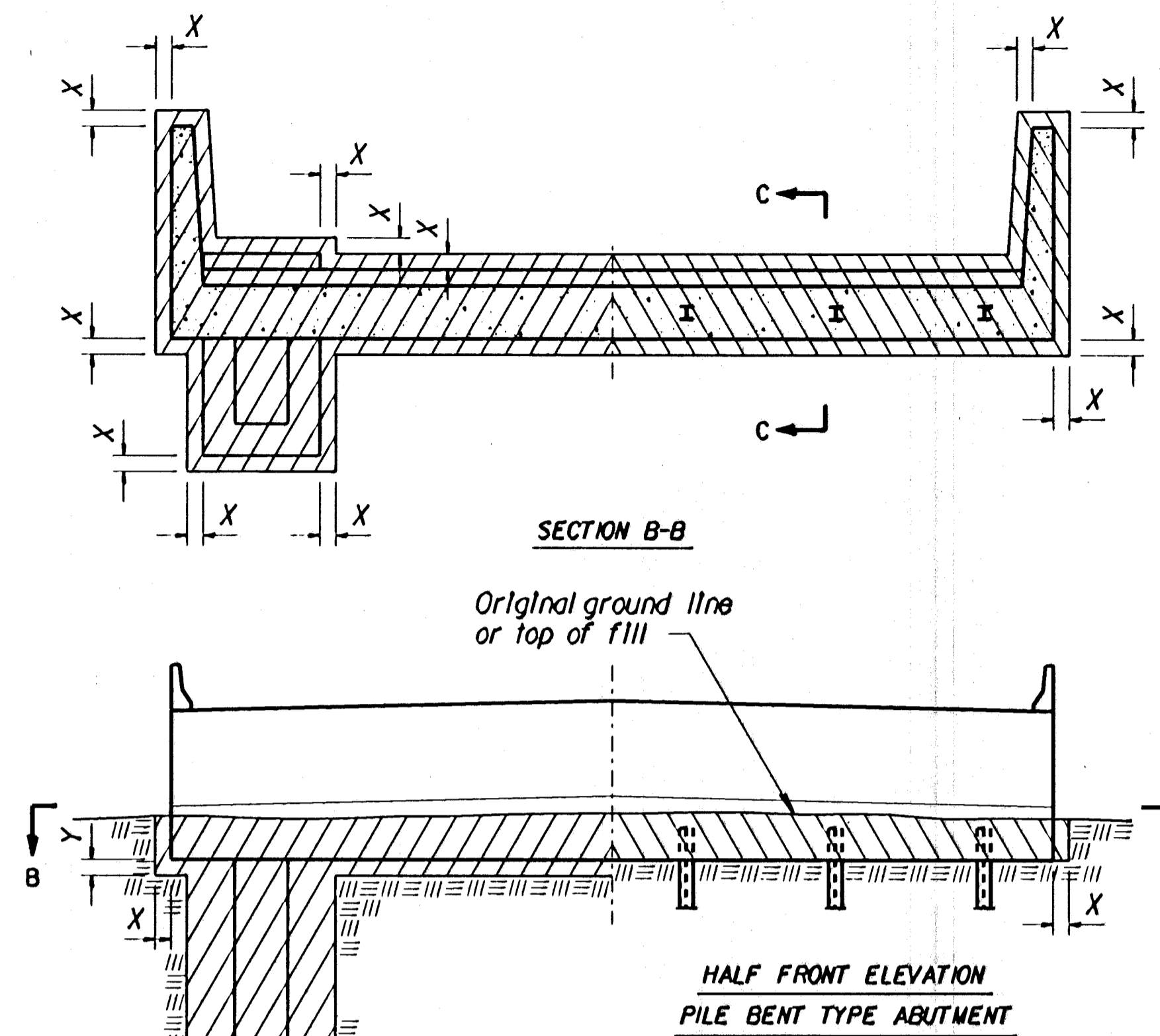
Note: Typical Class III Excavation for box bridges shall be below the "cleared" channel unless otherwise noted on the plans.

**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.



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.

**EXCAVATION DETAILS FOR TYPICAL ABUTMENTS**

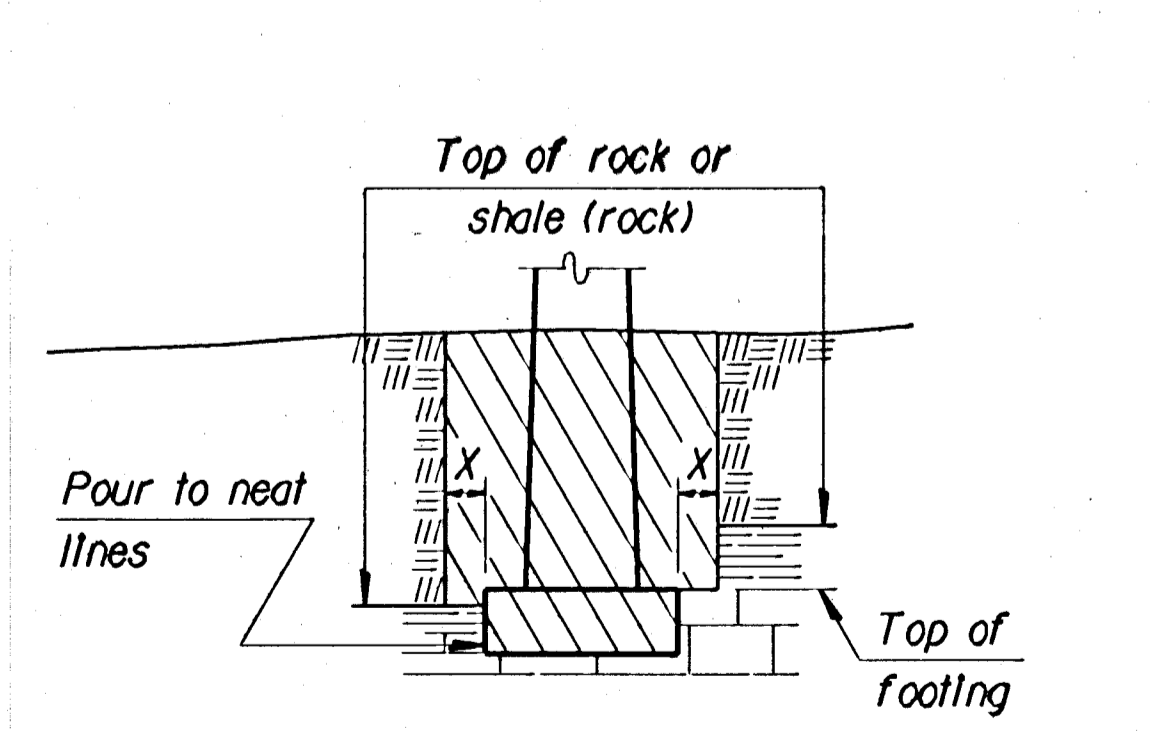
See detail when rock or shale (rock) is encountered. \*

Note: All bridge excavation shall be computed on the basis of the cross-hatched areas and boundary lines indicated on this sheet.  
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.

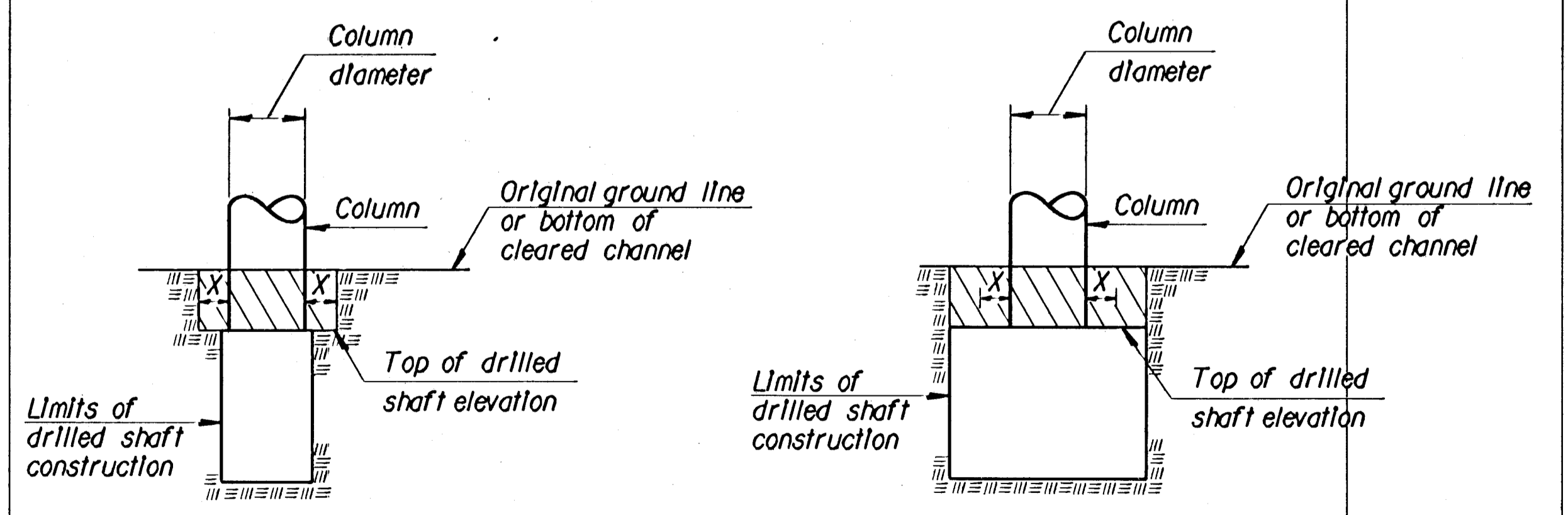
NO.	DATE	BY	REVISION

STANDARD	PLOTT
ZF3-L10-47100X000.DGN	View
24-APR-1990 15:06	

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.



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.



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

1	4-6-90	Change limits of abutment	LRR	KFH
NO.	DATE	REVISIONS	BY	APP'D
KANSAS DEPARTMENT OF TRANSPORTATION				
BRIDGE EXCAVATION				
STD. NO. 100				
DESIGNED	4-16-90	APP'D	KENNETH F. HURST	
DESIGN CK.	DETAIL CK.	LRR QUAN. CK.	TRACED	TRACE CK.