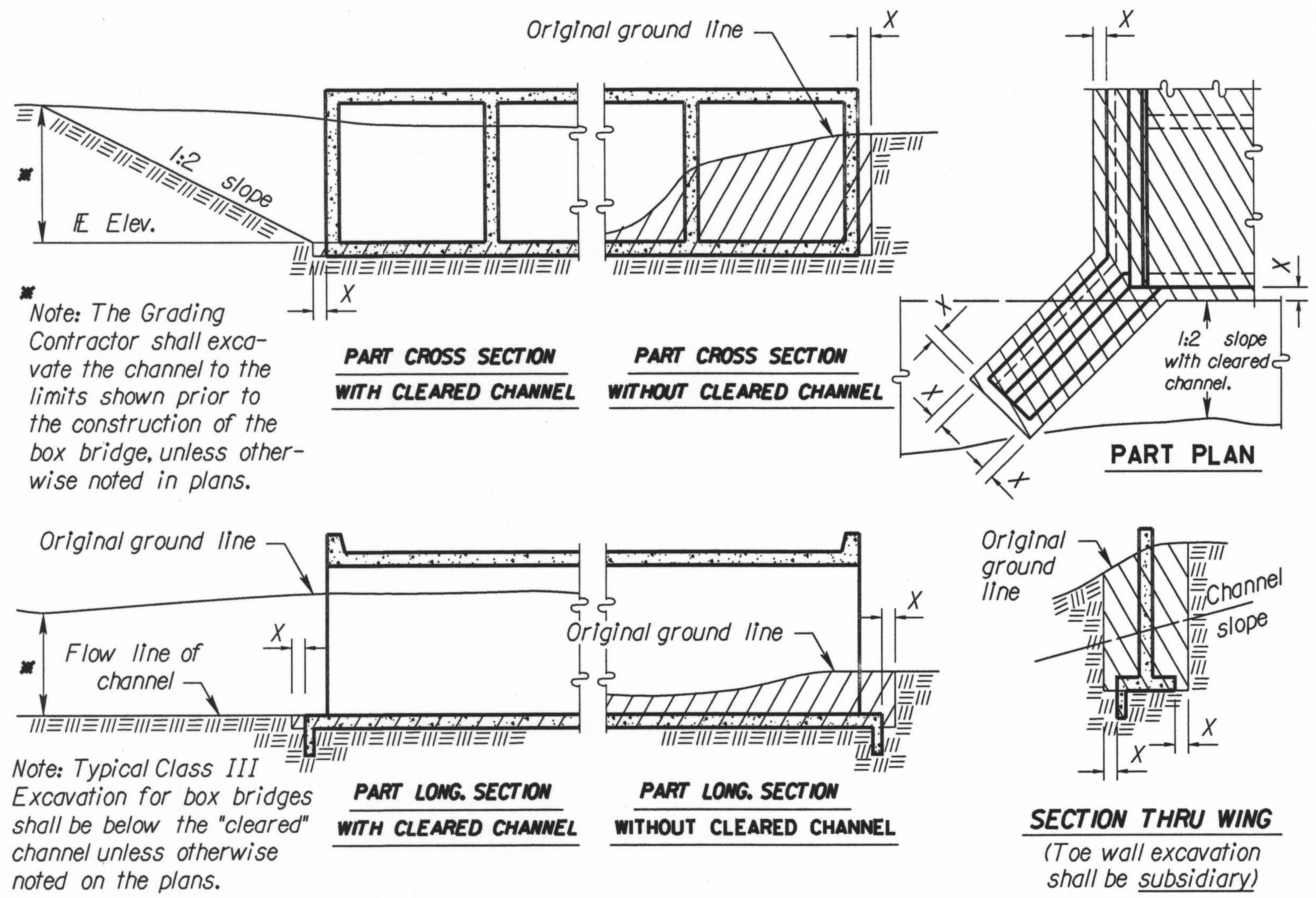
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	54-87 K-6657-01	2002	607	1122

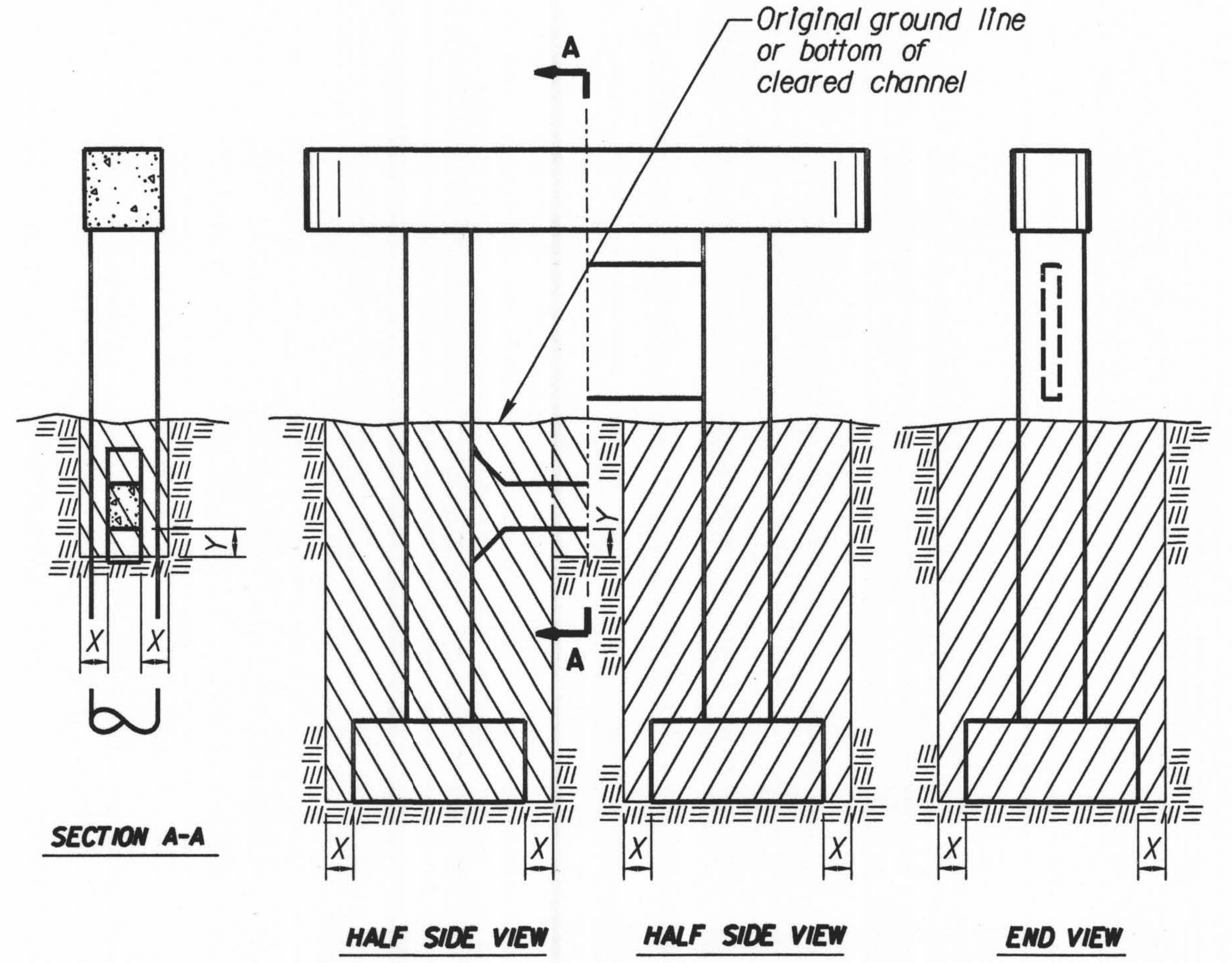


* Note: The Grading Contractor shall excavate the channel to the limits shown prior to the construction of the box bridge, unless otherwise noted in plans.

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

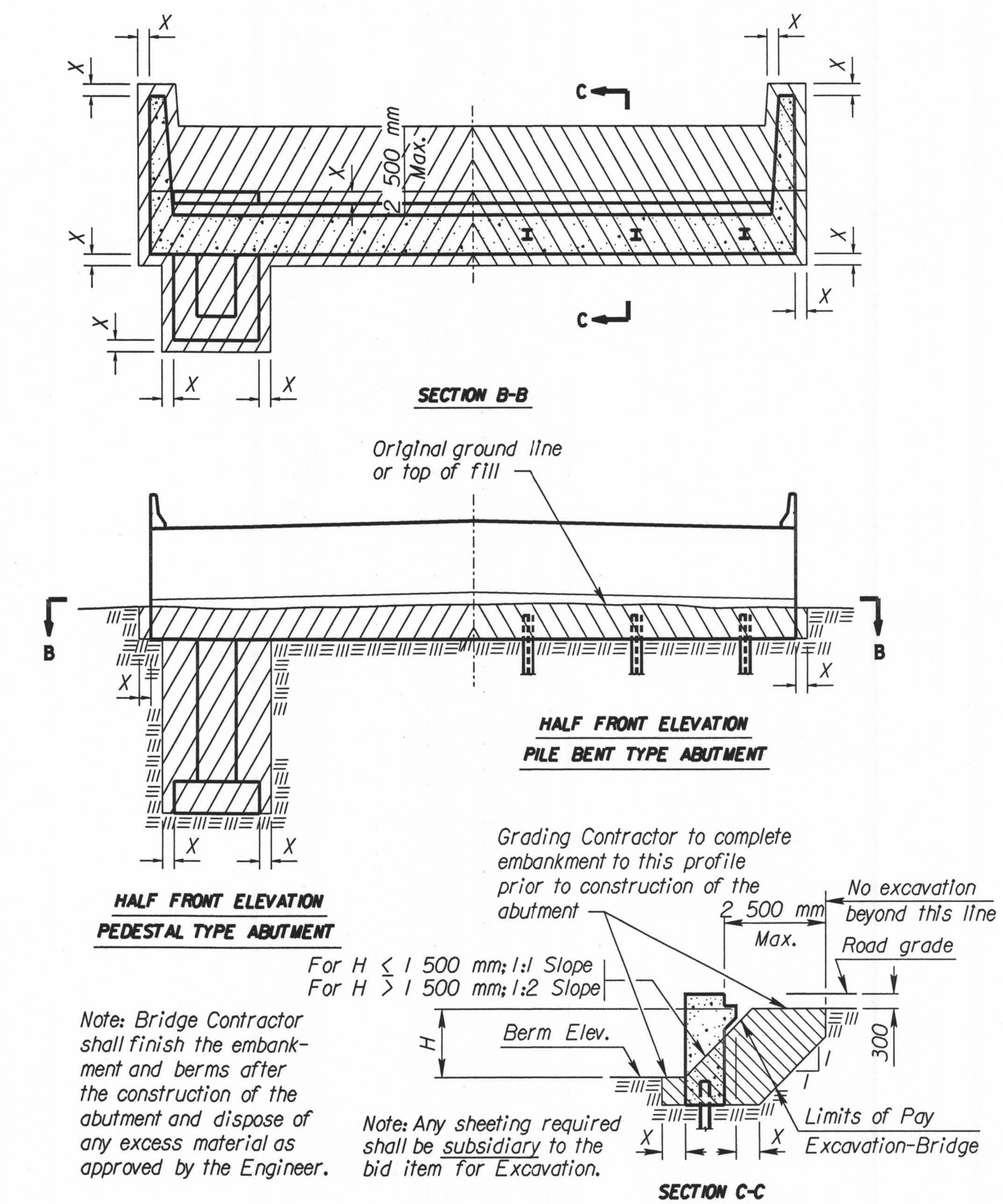
EXCAVATION DETAILS FOR REINFORCED CONCRETE BOX CULVERT

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.



EXCAVATION DETAILS FOR TYPICAL PIERS

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



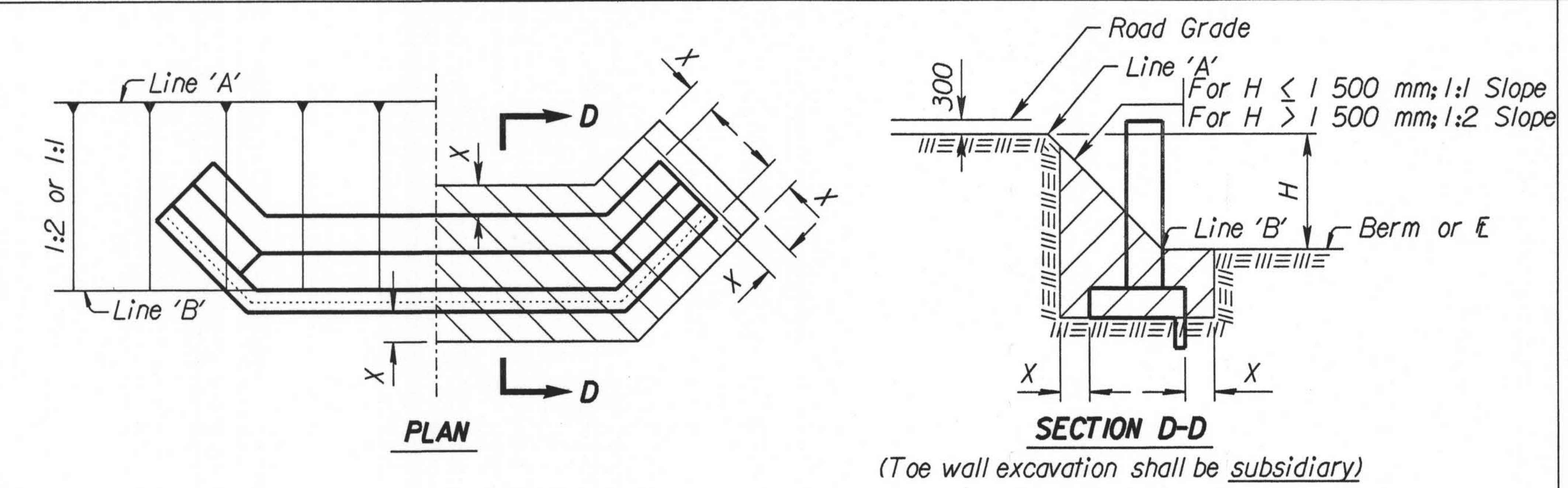
Note: Bridge Contractor shall finish the embankment and berms after the construction of the abutment and dispose of any excess material as approved by the Engineer.

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

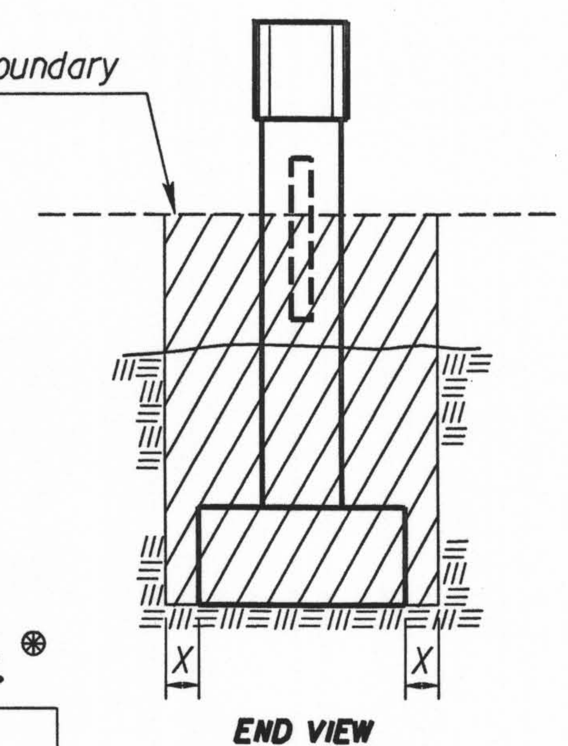
EXCAVATION DETAILS FOR SPECIFIC ABUTMENTS FOR SPECIFIC BRIDGES

Br. No's. 19.29(492) & 19.32(495) both Abutments, 19.30(493) & 19.31(494) Abut. #2 only

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



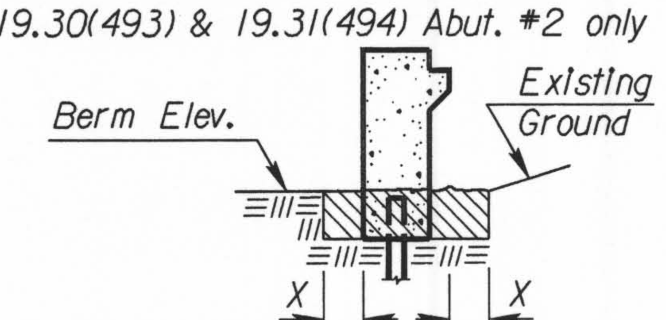
EXCAVATION DETAILS FOR ABUTMENTS WITH FLARED WINGWALLS



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.

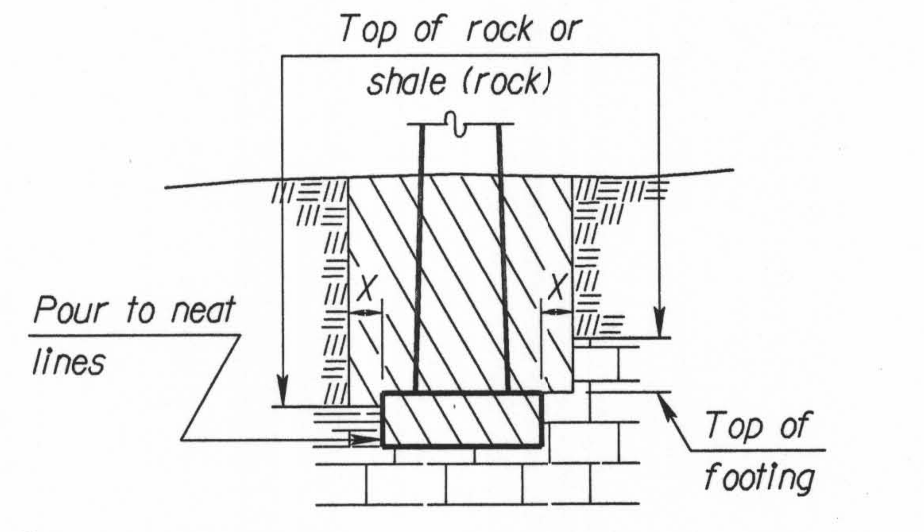
CLASS II EXCAVATION QUANTITIES

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



EXCAVATION DETAILS FOR SPECIFIC ABUTMENTS FOR SPECIFIC BRIDGES

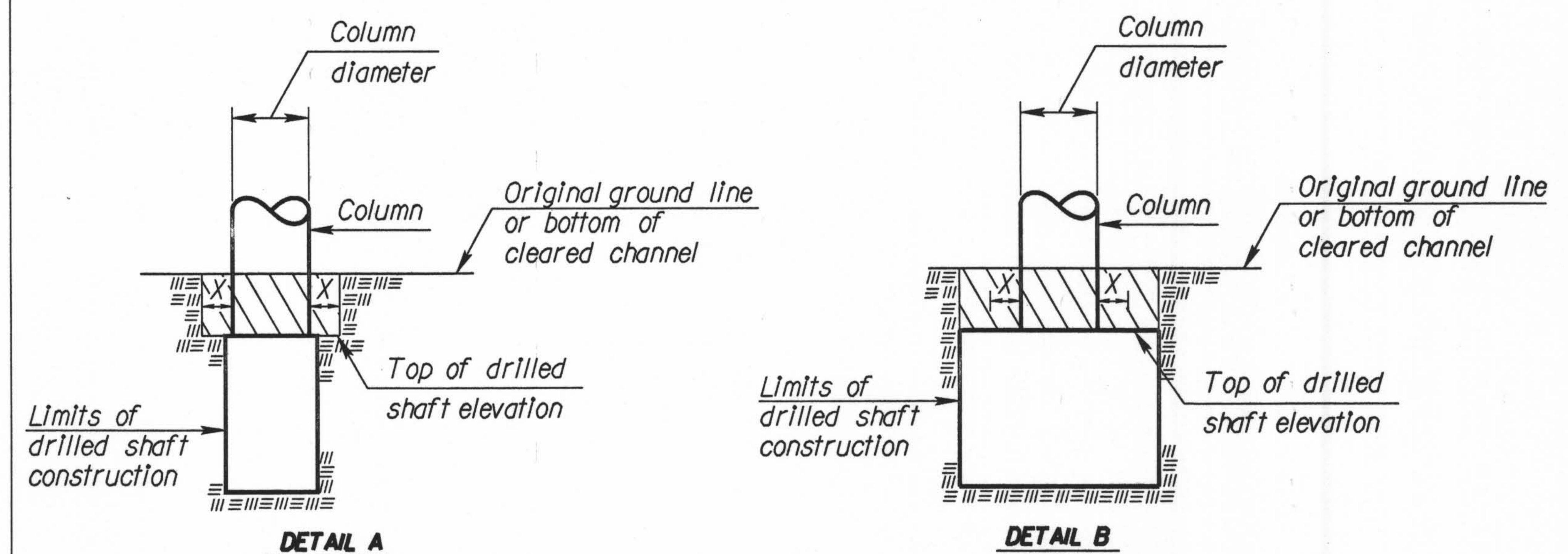
Br. No's. 19.05(489), 19.06(491), 20.13(496), 20.12 (497) both Abutments, 19.30(493) & 19.31(494) Abut. #1 only



⊛ 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: Compute bridge excavation on the basis of the cross-hatch areas and boundary lines indicated on this sheet and the Excavation Boundary Plane on the Construction Layout.

When the trench is more than 1 500 mm in depth and 2 500 mm in length, shore, sheet, brace or otherwise support the sides of the trench in hard or compacted soil including embankments. In lieu of the shoring, the sides of the trench above the 1 500 mm 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 600 mm unless indicated otherwise on the general plans.

Dimension "Y" shall be 450 mm unless indicated otherwise on the general plans.

NO.	DATE	REVISIONS	BY	APP'D
3				
2	8-12-95	Correct Section BB at abutment	LRR	KFH
1	1-30-95	Drilled Shaft Excavation	LRR	KFH

KANSAS DEPARTMENT OF TRANSPORTATION

BRIDGE EXCAVATION

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