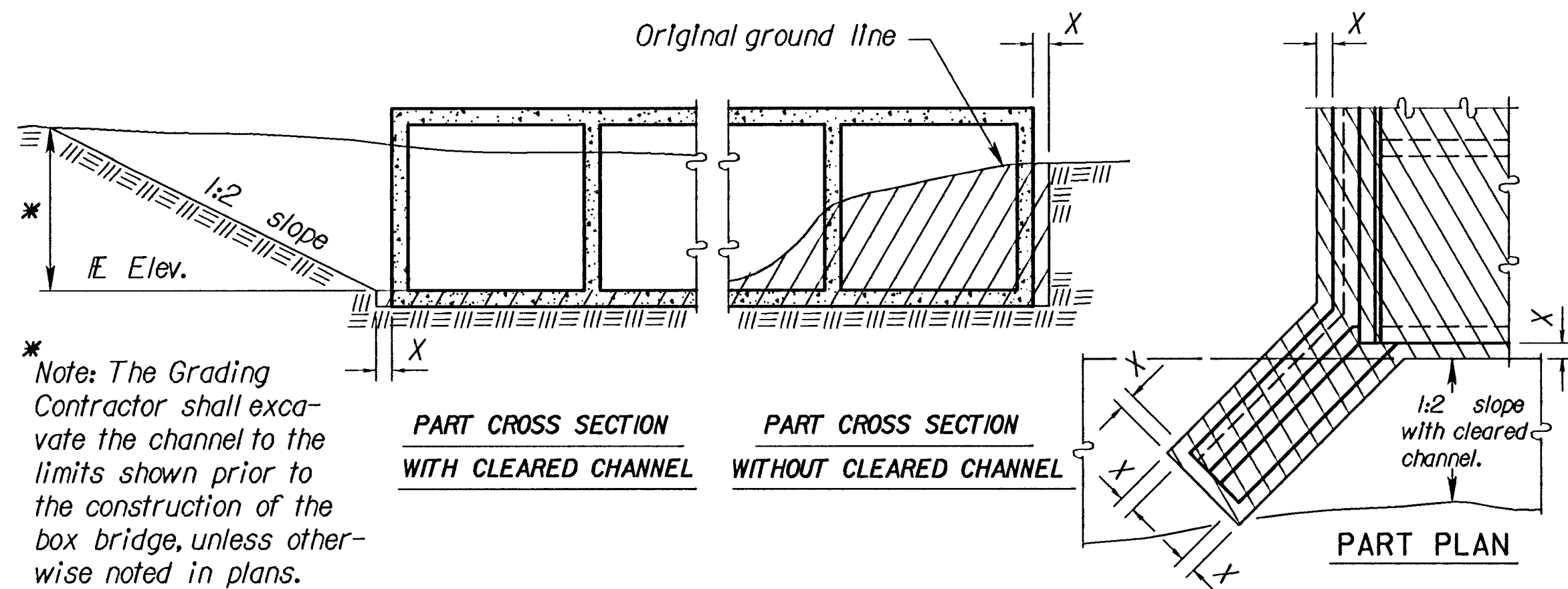


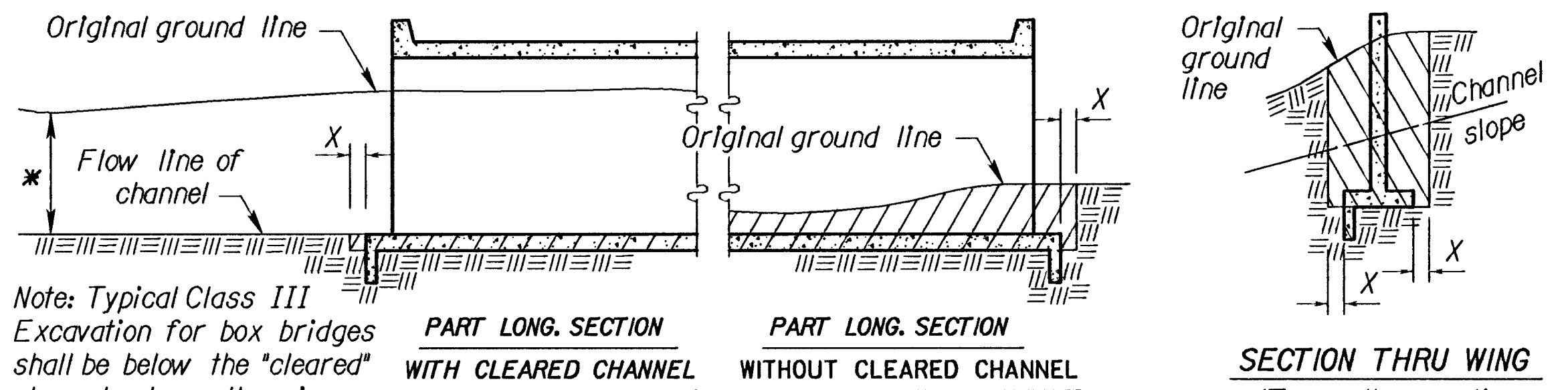
Plotted By : DPG  
Plot File : BR100SI.DGN  
Plot Date : 6-17-97

Std. Base File : /usr2/stand/si/br100si.dgn  
Server File : /usr2/  
Server : wch

View= PLOT1



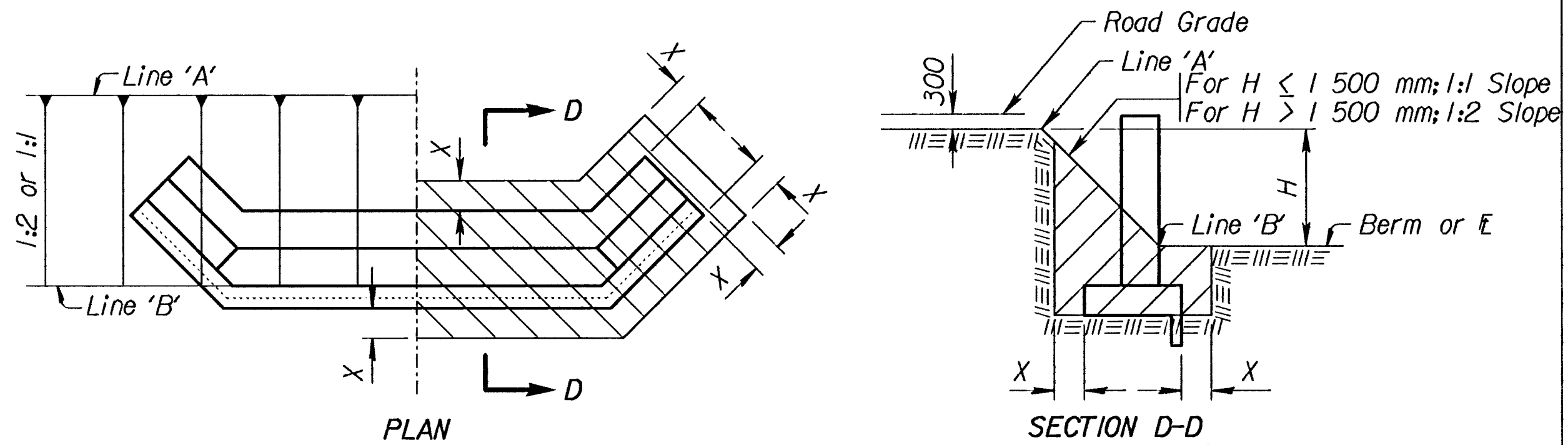
Note: The Grading Contractor shall excavate the channel to the limits shown prior to the construction of the box bridge, unless otherwise noted in plans.



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

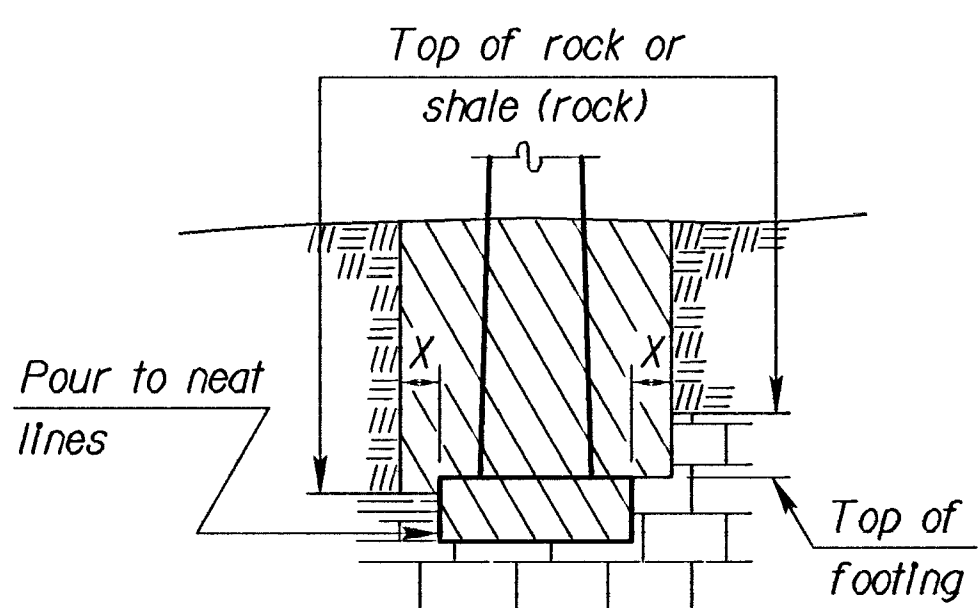
#### EXCAVATION DETAILS FOR REINFORCED CONCRETE BOX CULVERT

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 ABUTMENTS WITH FLARED WINGWALLS

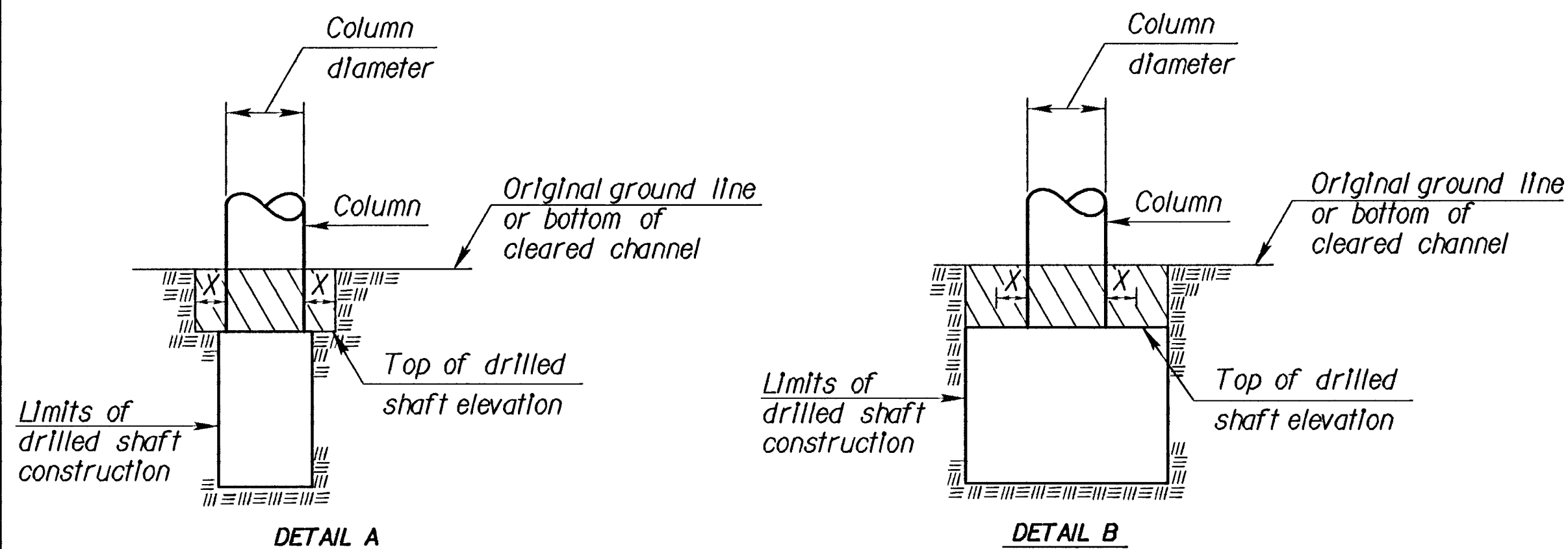
(Toe wall excavation shall be subsidiary)



#### 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.

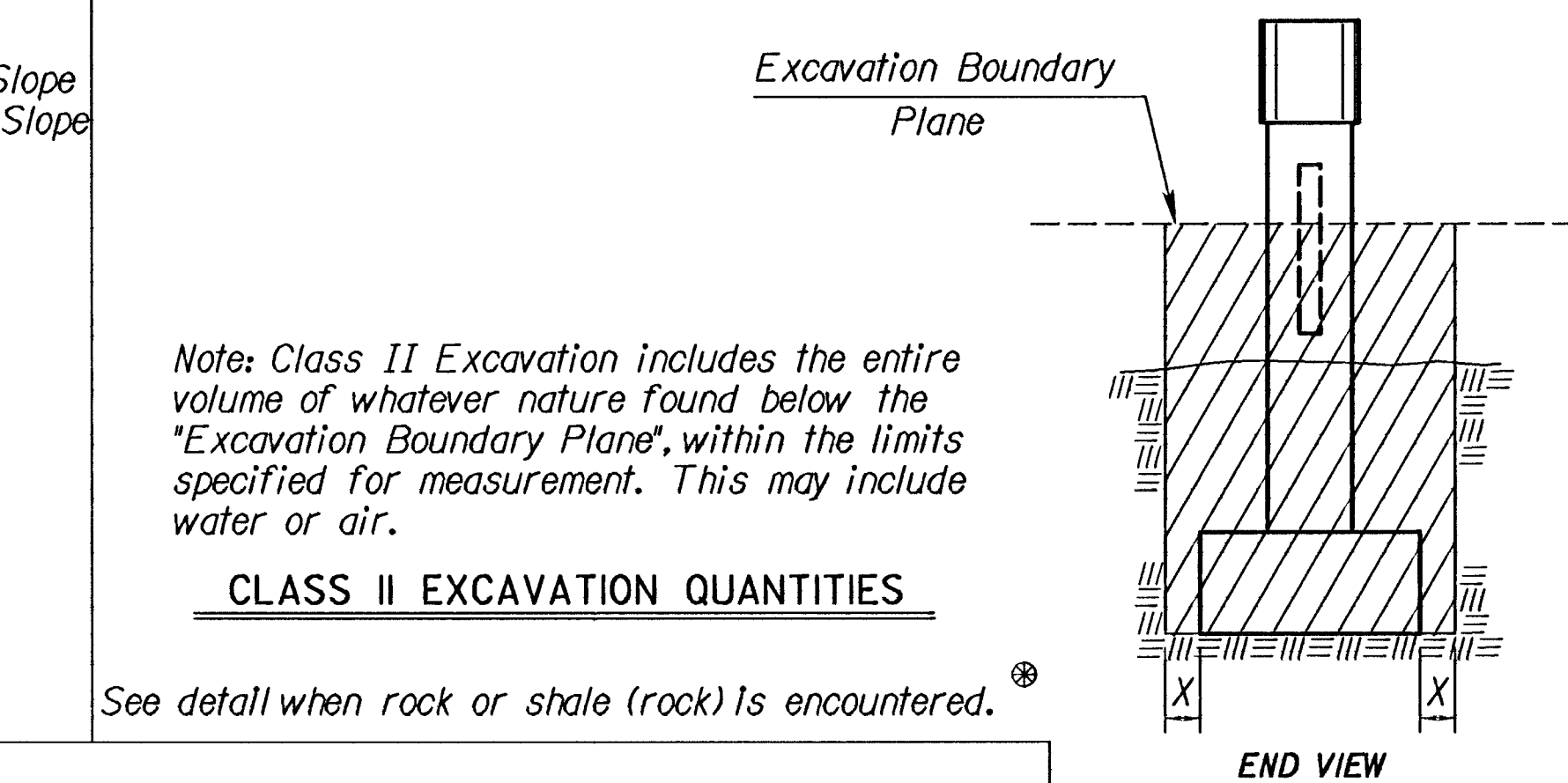


#### DRILLED SHAFT DETAILS

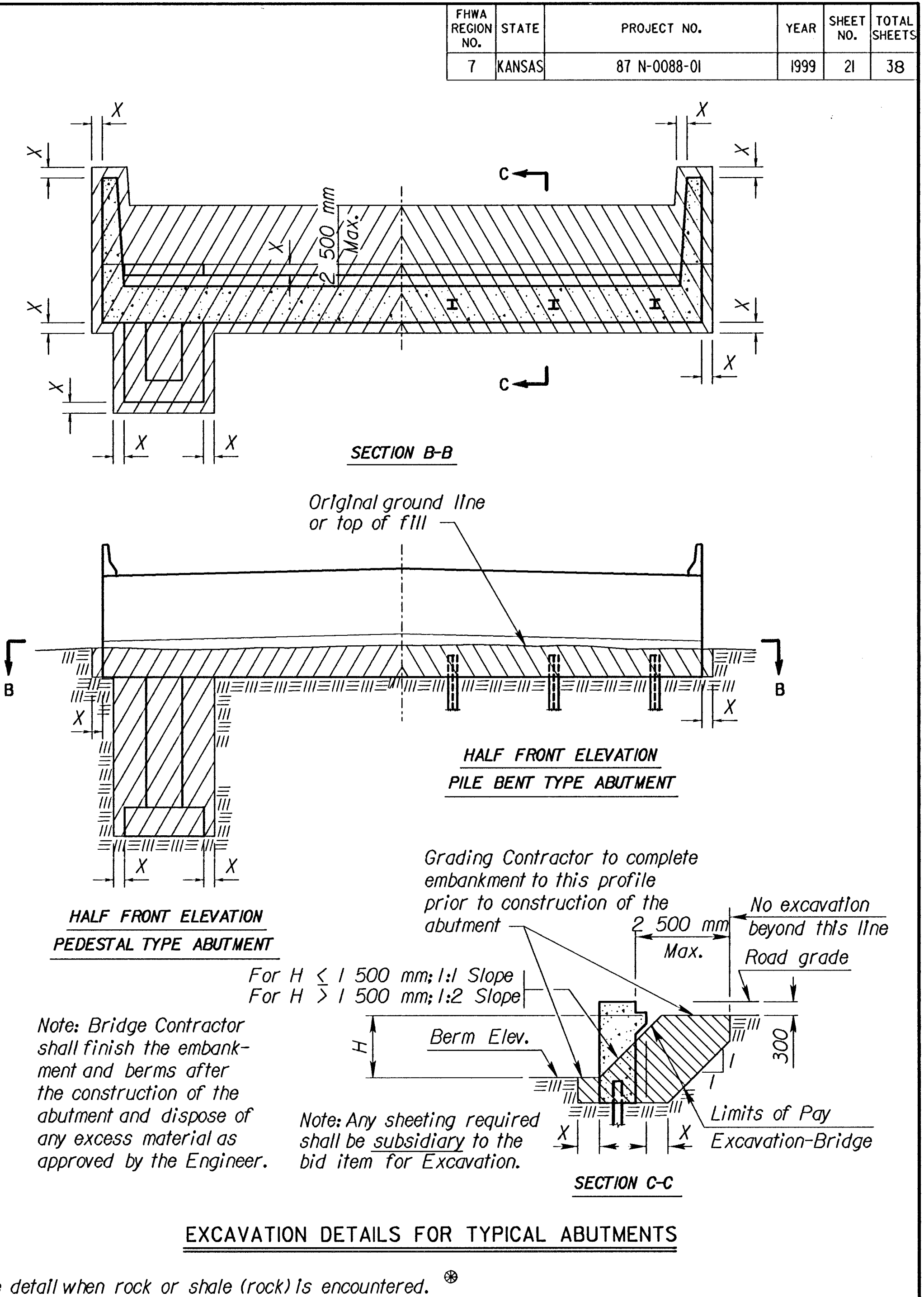
Note: Whenever the limits of the drilled shaft construction are greater than the Column Diameter + 2X, the limits of Class I, II, or III Excavation shall be the limits of the drilled shaft construction. (See Detail B)

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

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



#### EXCAVATION DETAILS FOR TYPICAL PIERS



#### EXCAVATION DETAILS FOR TYPICAL ABUTMENTS

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

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.

| FHWA REGION NO. | STATE  | PROJECT NO.  | YEAR | SHEET NO. | TOTAL SHEETS |
|-----------------|--------|--------------|------|-----------|--------------|
| 7               | KANSAS | 87 N-0088-01 | 1999 | 21        | 38           |

| 3                                   | 8-12-95    | Correct Section BB at abutment | LRR              | KFH      |
|-------------------------------------|------------|--------------------------------|------------------|----------|
| 2                                   | 1-30-95    | Drilled Shaft Excavation       | LRR              | KFH      |
| 1                                   |            |                                |                  |          |
| NO.                                 | DATE       | REVISIONS                      | BY               | APP'D    |
| KANSAS DEPARTMENT OF TRANSPORTATION |            |                                |                  |          |
| BRIDGE EXCAVATION                   |            |                                |                  |          |
| BR100 SI                            |            |                                |                  |          |
| DESIGNED                            | 9-8-95     | APP'D                          | KENNETH F. HURST |          |
| DESIGN CK.                          | DETAIL CK. | QUANTITIES                     | CADD             | CADD CK. |