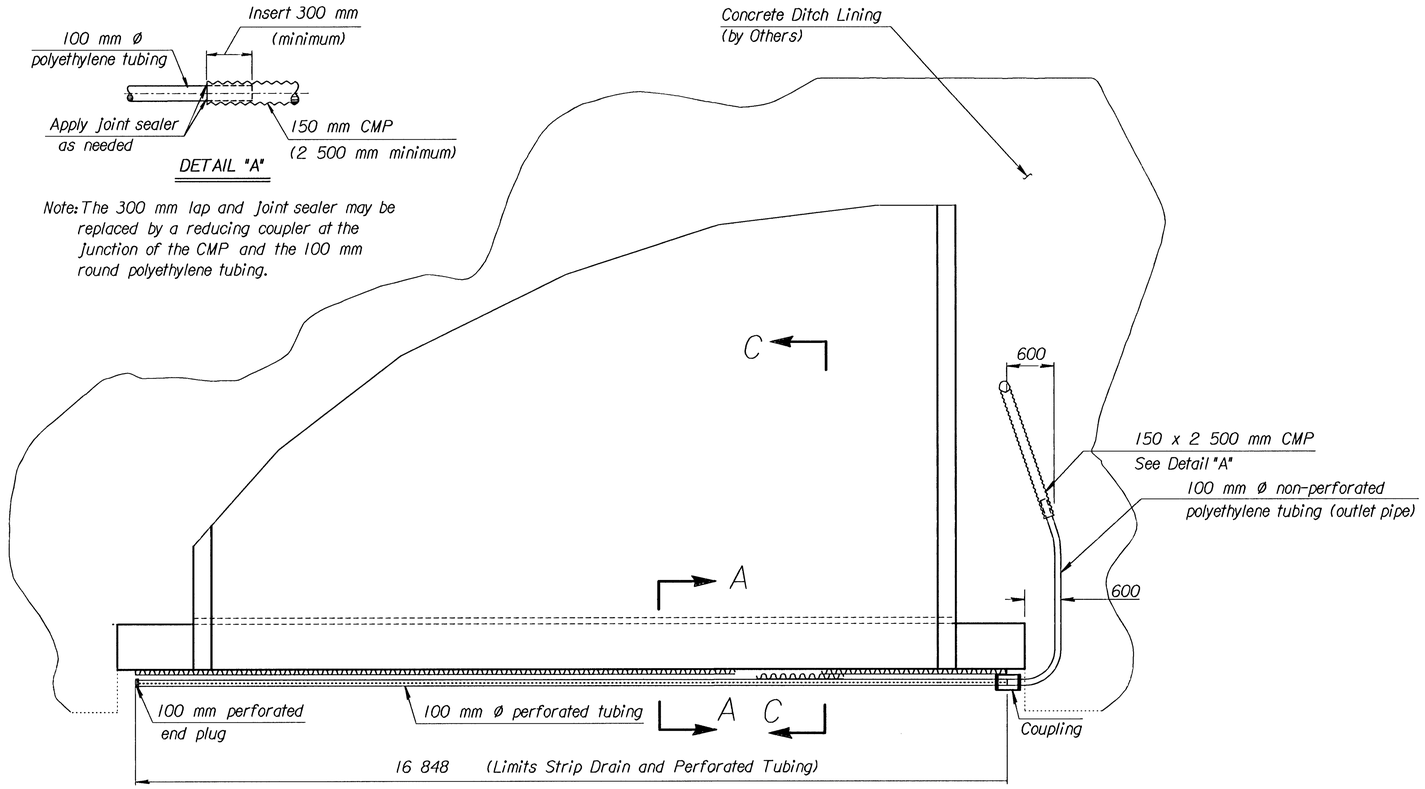
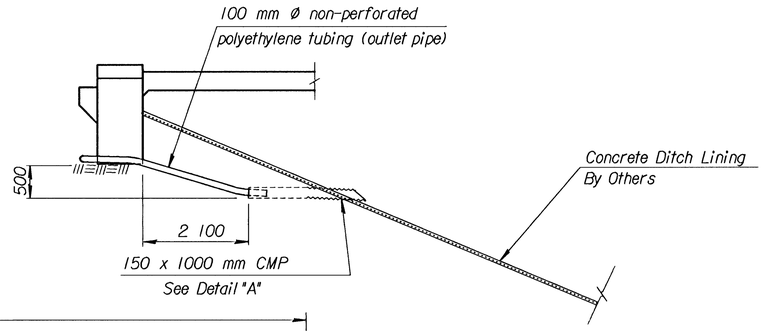
FHWA REGION NO.	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS	472-82784	1999	15	39

DETAIL "A"

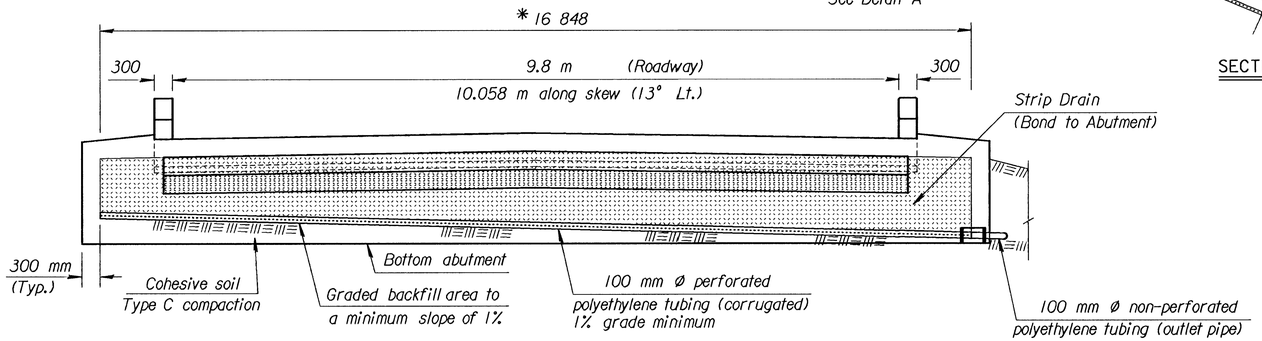
Note: The 300 mm lap and Joint sealer may be replaced by a reducing coupler at the Junction of the CMP and the 100 mm round polyethylene tubing.



PLAN



SECTION C-C



ELEVATION

GENERAL NOTES

ABUTMENT STRIP DRAIN: The Bridge Contractor shall excavate to the limits shown on the Bridge Excavation sheet, grade the bottom of the backfill area, place the strip drain, and place the perforated pipe, the outlet pipe, the CMP, and the backfill. Guide post and coarse aggregate are subsidiary to this bid item. Guide post and coarse aggregate are not required if the CMP empties onto riprap.

BRIDGE BACKWALL PROTECTION SYSTEM: Apply a Bridge Backwall Protection System to the approach side of the abutments and the wings in accordance with KDOT Specifications and the manufacturer's recommendations. Cover the abutments and wings to the limits shown on the details. Prior to backfilling, repair any damage done to the system at no charge to the city.

Place perforated pipe next to the strip drain. Use non-perforated pipe outside the limits of the strip drain. Enclose the perforated pipe with the extension of the filter fabric.

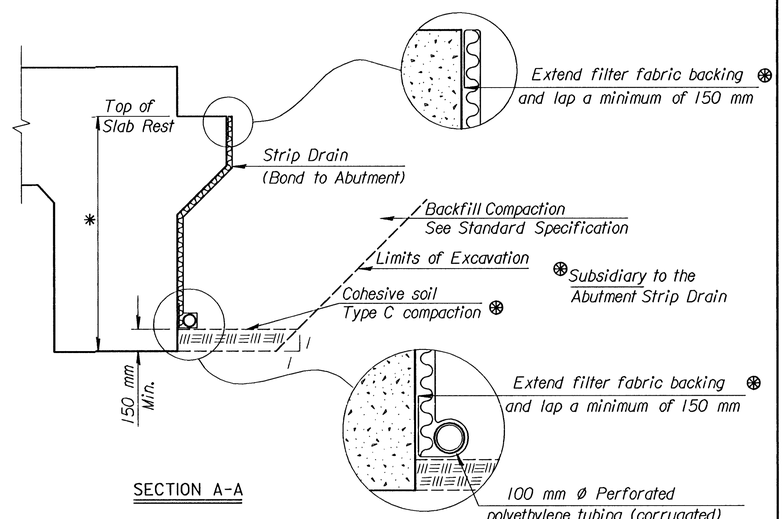
Compact the abutment backfill. See the KDOT Specifications.

Perforated pipe and non-perforated outlet pipe shall be corrugated polyethylene tubing conforming to the KDOT Specifications.

Fit the CMP end section with 6 mm galvanized mesh screen to prevent the entrance of rodents. Seal the joint between the outlet pipe and the end section with a Joint sealer. ~~Place coarse aggregate at the outlet end as shown.~~

~~Grade the bottom surface of the excavated area to drain. Backfill this area with a cohesive type soil. The soil should be a silty clay or clay under the Kansas Classification System with a minimum plasticity index of 20. Compact the material to Type C standards.~~

Place the outlet pipe on the downstream side of structures over streams and as shown or noted on other crossings (See the "Construction Layout" sheet).



SECTION A-A

* Limits of Bridge Backwall Protection System (by Bridge Contractor)

SUMMARY OF QUANTITIES (2 Abutments)	
Abutment Strip Drain	44.3 m²
Bridge Backwall Protection System	47.2 m²
Items Subsidiary to Strip Drain	
100 mm Ø Perforated Pipe	34 m
100 mm Ø Outlet Pipe	9 m
150 mm Ø CMP	5.0 m
Items Subsidiary to Slope Protection	
~~Geotextile Fabric~~	~~m²~~

NO.	DATE	REVISIONS	BY	APP'D
3				
2				
1	9/1/96	Current release		

KANSAS DEPARTMENT OF TRANSPORTATION

Br. No. Sta.

ABUTMENT
STRIP DRAIN
(Use with Slope Protection Sheet)

~~BRI04H SI~~ Co.

SHEET NO. OF	SCALE	APP'D	
DESIGNED	DETAILED	QUANTITIES	CADD BAF
DESIGN CK.	DETAIL CK. LRR	QUAN. CK.	CADD CK.

8/96

Plotted By : $$USERNAME$$ | Std. Base File : /usr2/stand/si/bri04hsi.dgn
Plot File : $$$$$$$$$$$$$$DGNSPEC$$$$$$$$$$$$$$ | Server File : /usr2/
Plot Date : $$$$$$STIME$$$$$$ | Server : witch
View= PLOT!