

PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
472-82721	1997	C76	131

**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 Protective 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.

Perforated pipe shall be placed next to the strip drain. Outside the limits of the strip drain, non-perforated pipe shall be used. Care shall be taken to enclose the perforated pipe with the extension of the filter fabric.

Compaction shall be required at abutments. See KDOT Specifications.

The Abutment Strip Drain material shall meet the requirements of KDOT Specifications.

Perforated pipe and non-perforated outlet pipe shall be corrugated polyethylene tubing and shall meet the requirements of KDOT Specifications.

The CMP end section shall be fitted with a 1/4" galvanized mesh screen to prevent the entrance of rodents. The joint between the outlet pipe and end section shall be sealed with a joint sealer. Coarse aggregate shall be placed at the outlet end as shown.

The bottom surface of the excavated area shall be graded to drain and backfilled 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. The material shall be compacted to conform to Type C compaction.

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

⊕ Subsidiary to the Abutment Strip Drain

Extend filter fabric backing and lap a minimum of 6" ⊕

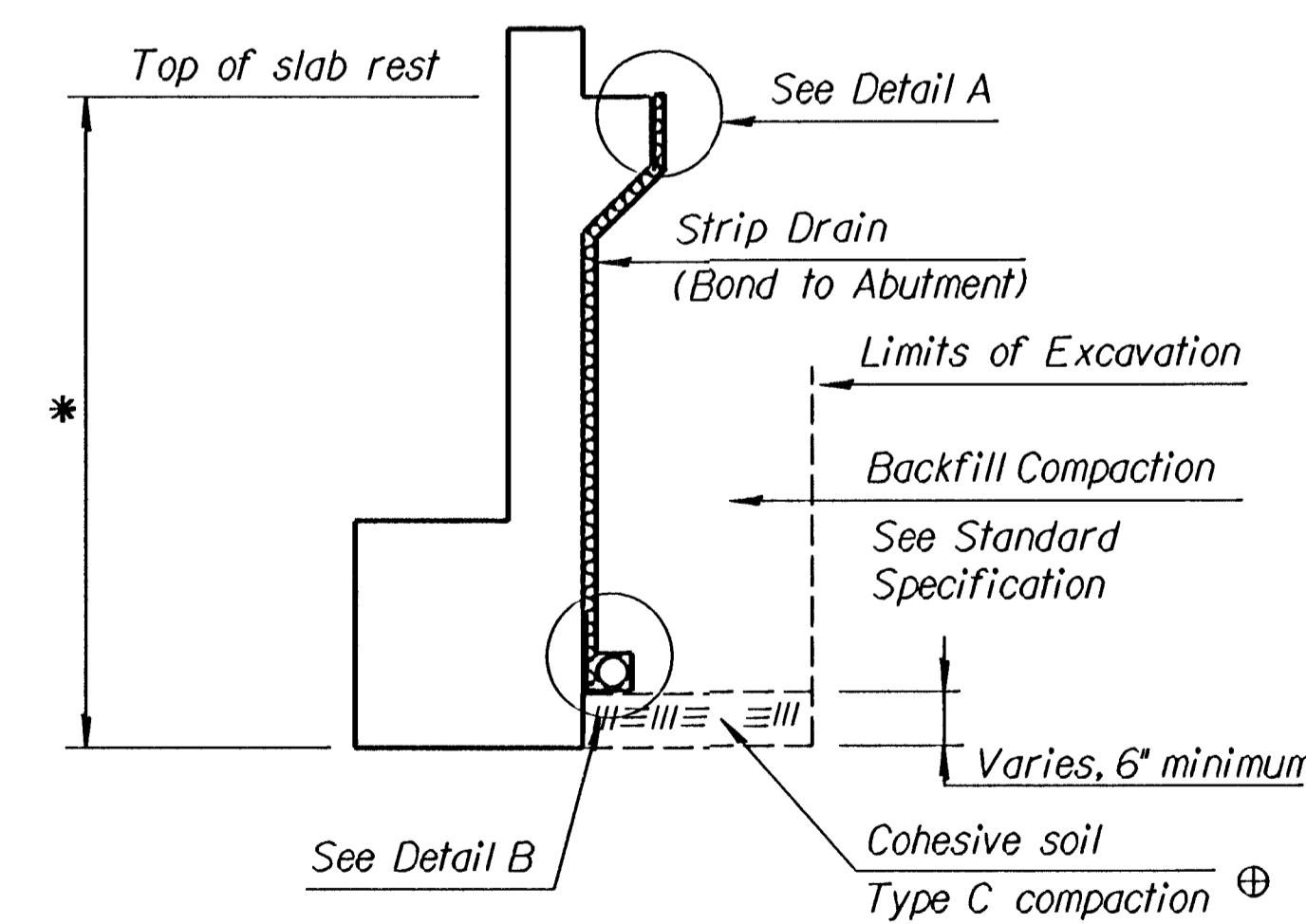
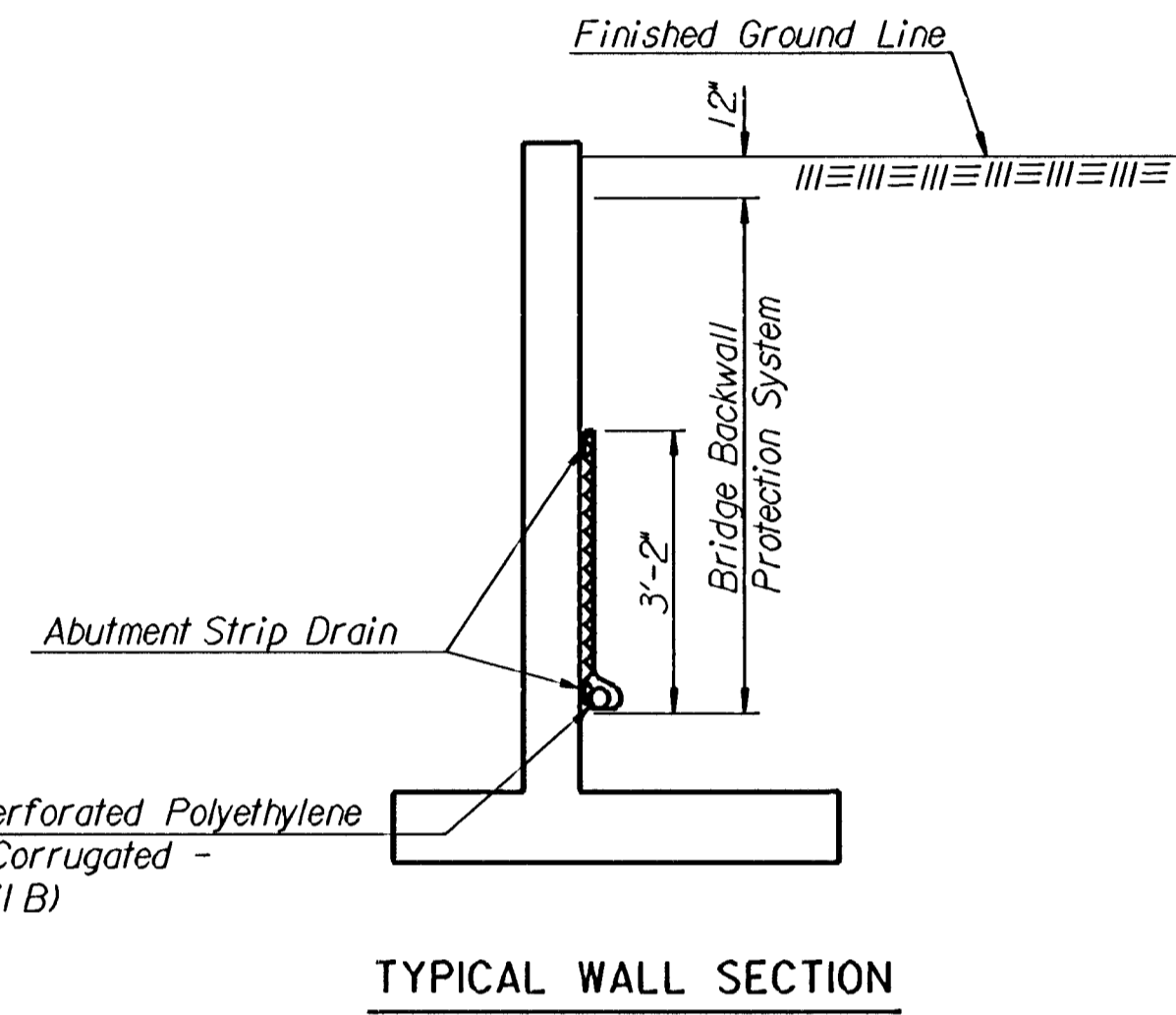
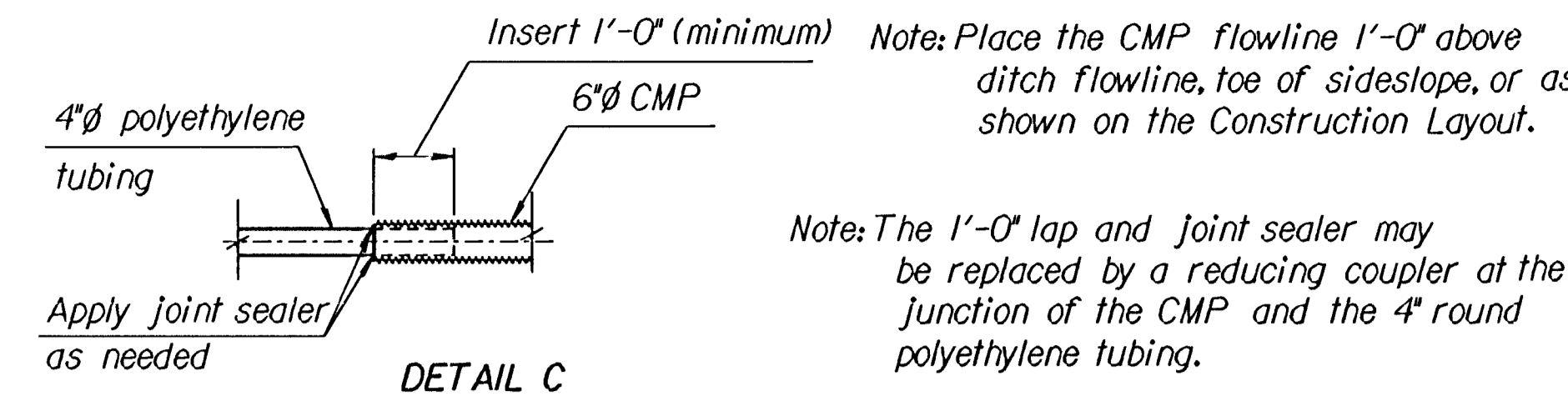
**DETAIL A**

Extend filter fabric backing and lap a minimum of 6" ⊕

4" PVC Perforated tubing  
Slope to Drain (1/8"/foot minimum)

**DETAIL B**

See Sh. No. C77 for additional details.

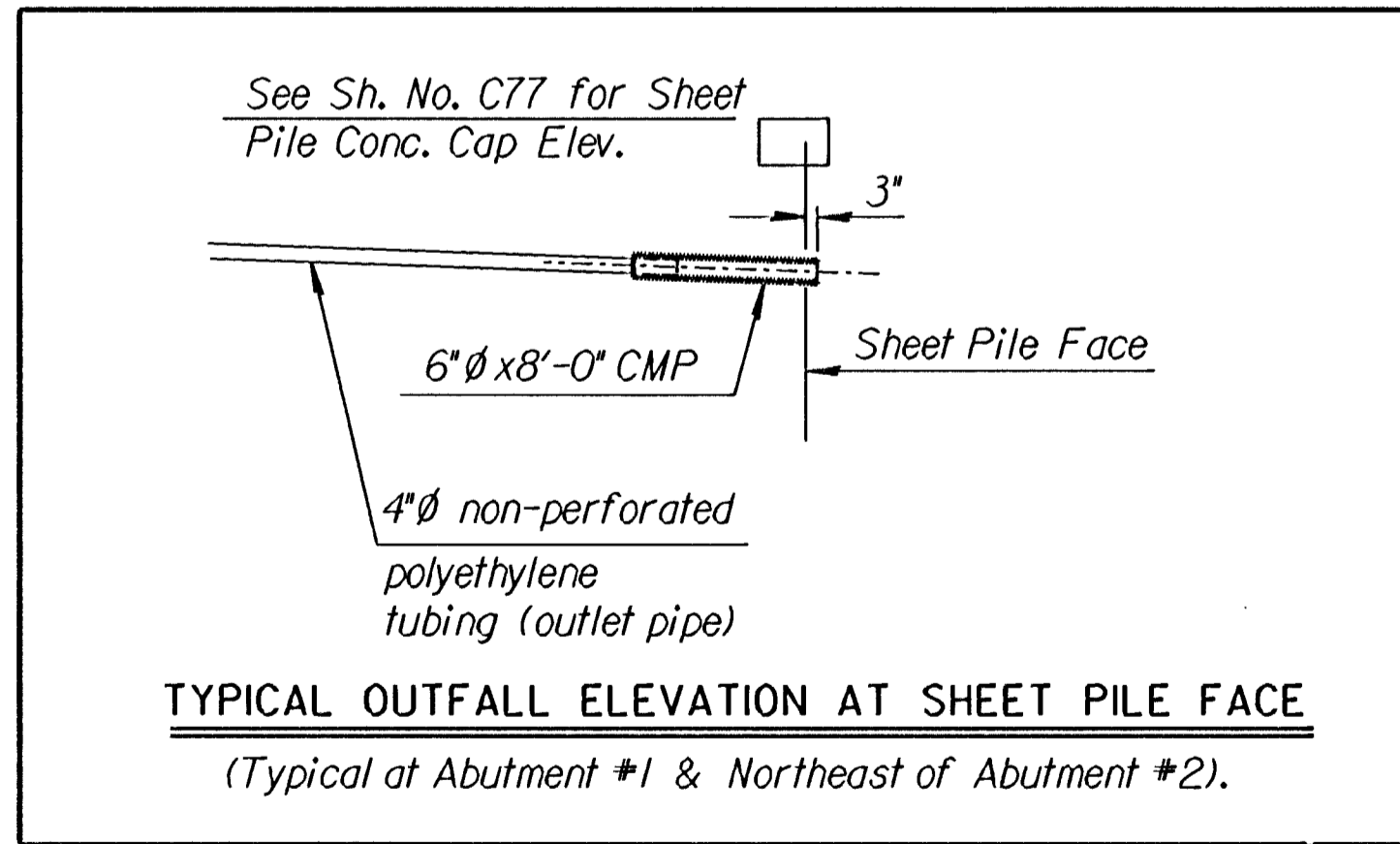
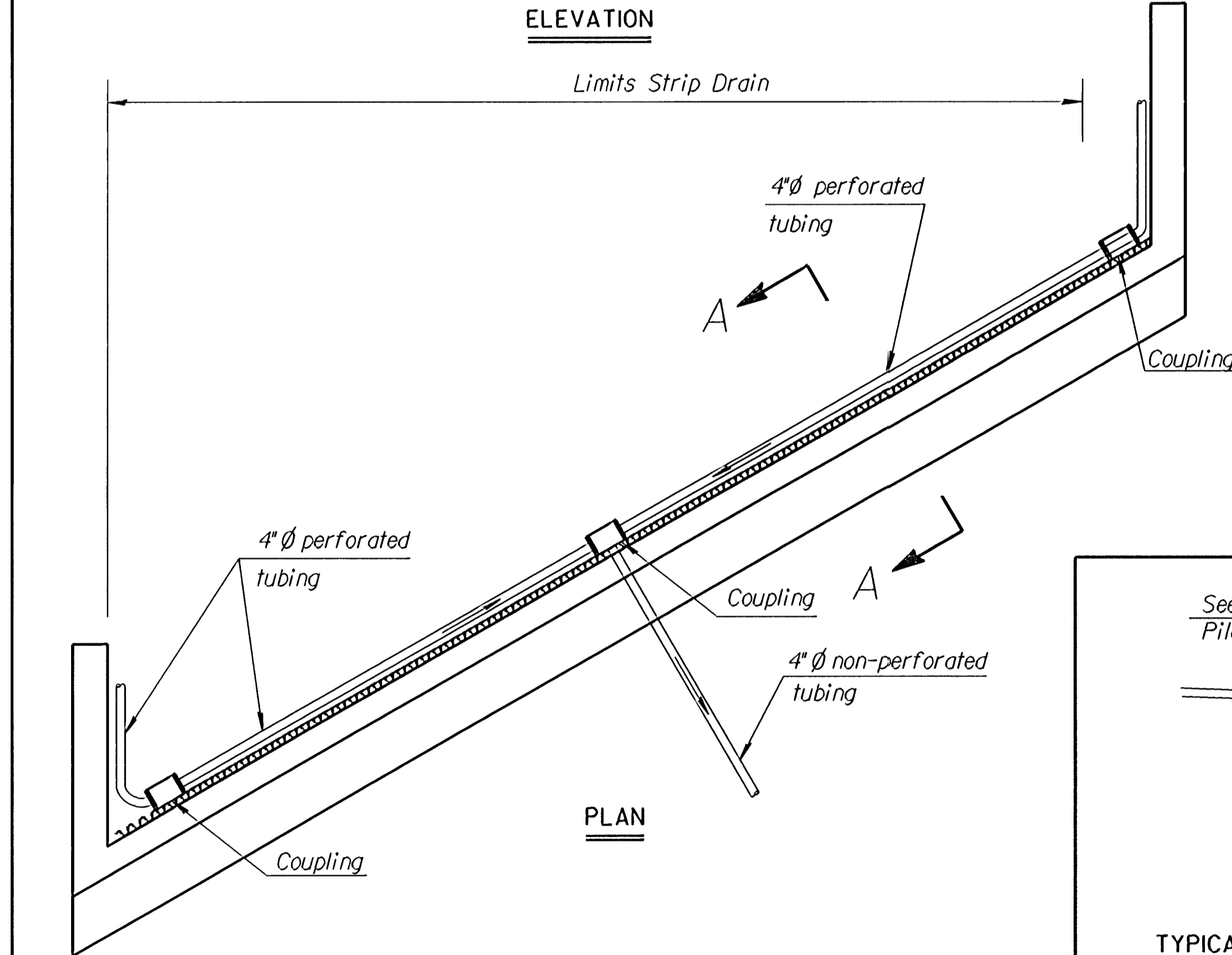
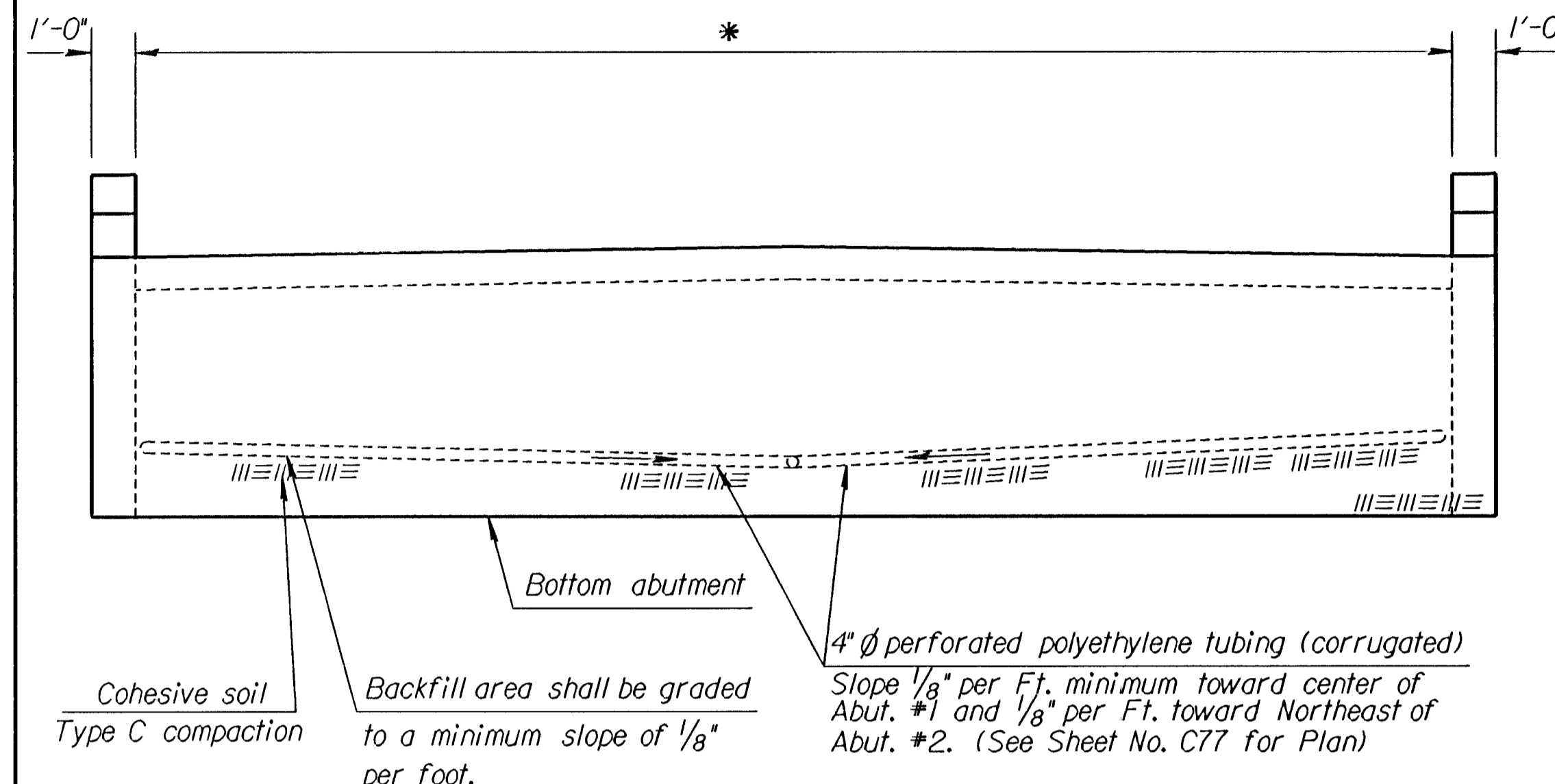


**SECTION A-A** \* Pay Limits of Bridge Backwall Protection System (by Bridge Contractor)

SUMMARY OF QUANTITIES	
Abutment Strip Drain	298.2 Sq. Yds.
Bridge Backwall Protection System	546.0 Sq. Yds.
Items Subsidiary to Strip Drain	
4" Perforated Pipe	292.30 Lin. Ft.
4" Outlet Pipe	56.70 Lin. Ft.
6" CMP	8.00 Lin. Ft.

NO.	DATE	REVISIONS	BY	APP'D
4	2-24-94	Bridge Backwall Protection Sys.	LRR	KFH
3	2-10-93	Compaction becomes subsidiary	LRR	KFH
2	2-14-92	Expanded strip drain & CTM	LRR	KFH
1	4-6-90	Add Steel Guide Post Option	LRR	KFH

KANSAS DEPARTMENT OF TRANSPORTATION			
ABUTMENT STRIP DRAIN			
DESIGNED		TRACED	
DETAIL CK.		LRR QUAN. CK.	
BRI02A		KENNETH F. HURST	
3-16-94 APP'D		KENNETH F. HURST	



Plotted By : will  
 Plot File : i:/1995/95088/douglas/strpdm.dgn  
 Plot Date : will 11-11-97  
 Strd. Base File : /usr2/stand/us/br102a  
 Server File : /usr2/  
 Server : wltch  
 View : PLOT1