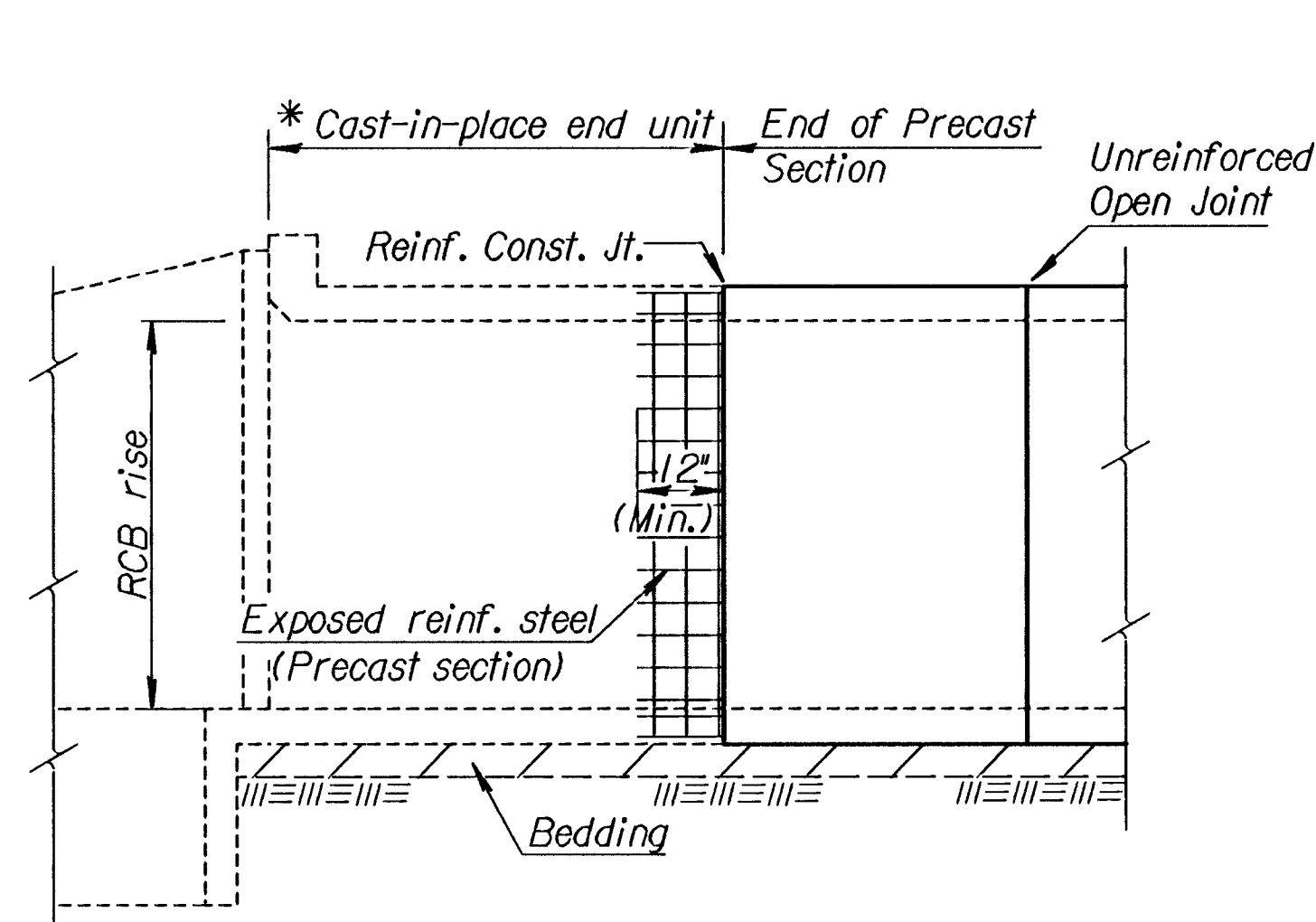
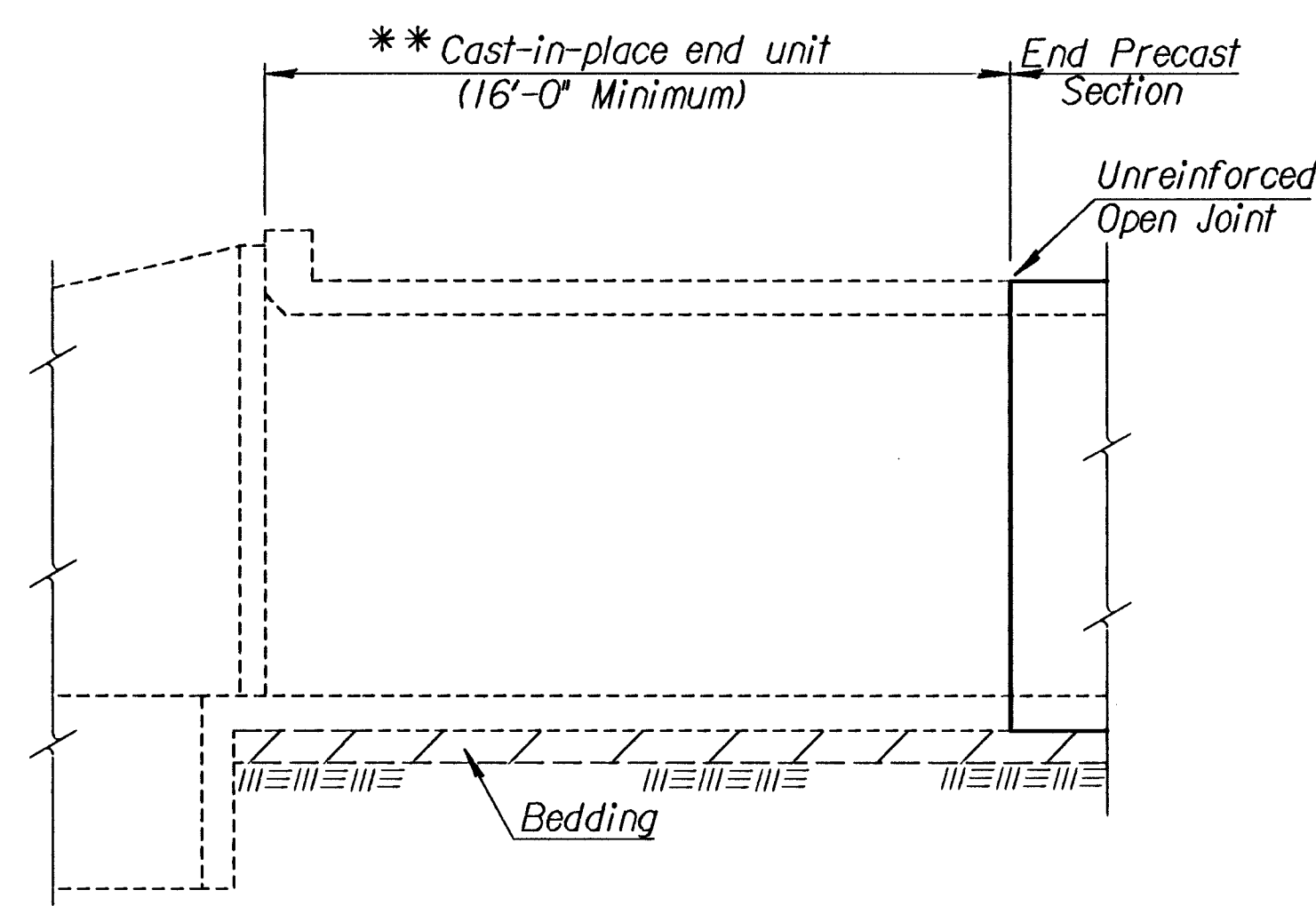


Plotted By : \$\$/USERNAME\$
Plot File : \$\$\$\$\$\$DGSPEC\$\$\$\$\$\$\$\$\$
Plot Date : \$\$\$\$\$\$TIME\$\$\$\$\$
Std. Base File : /usr2/stand/us/b031.dgn
Server File : /usr
Server : wltch
View: PLOT1



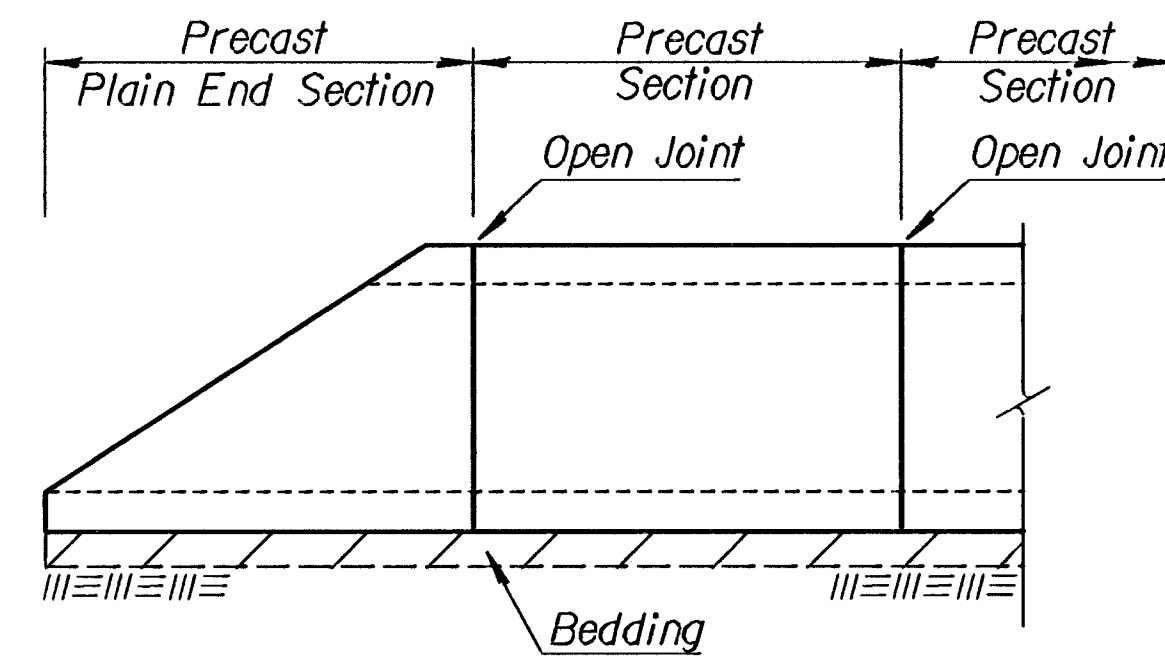
ELEVATION AT HEADWALL

* Minimum barrel length of cast-in-place end unit shall equal the RCB rise or 8'-0", whichever is less. This length can be used when the joint between the cast-in-place end unit and the precast section is reinforced as shown.



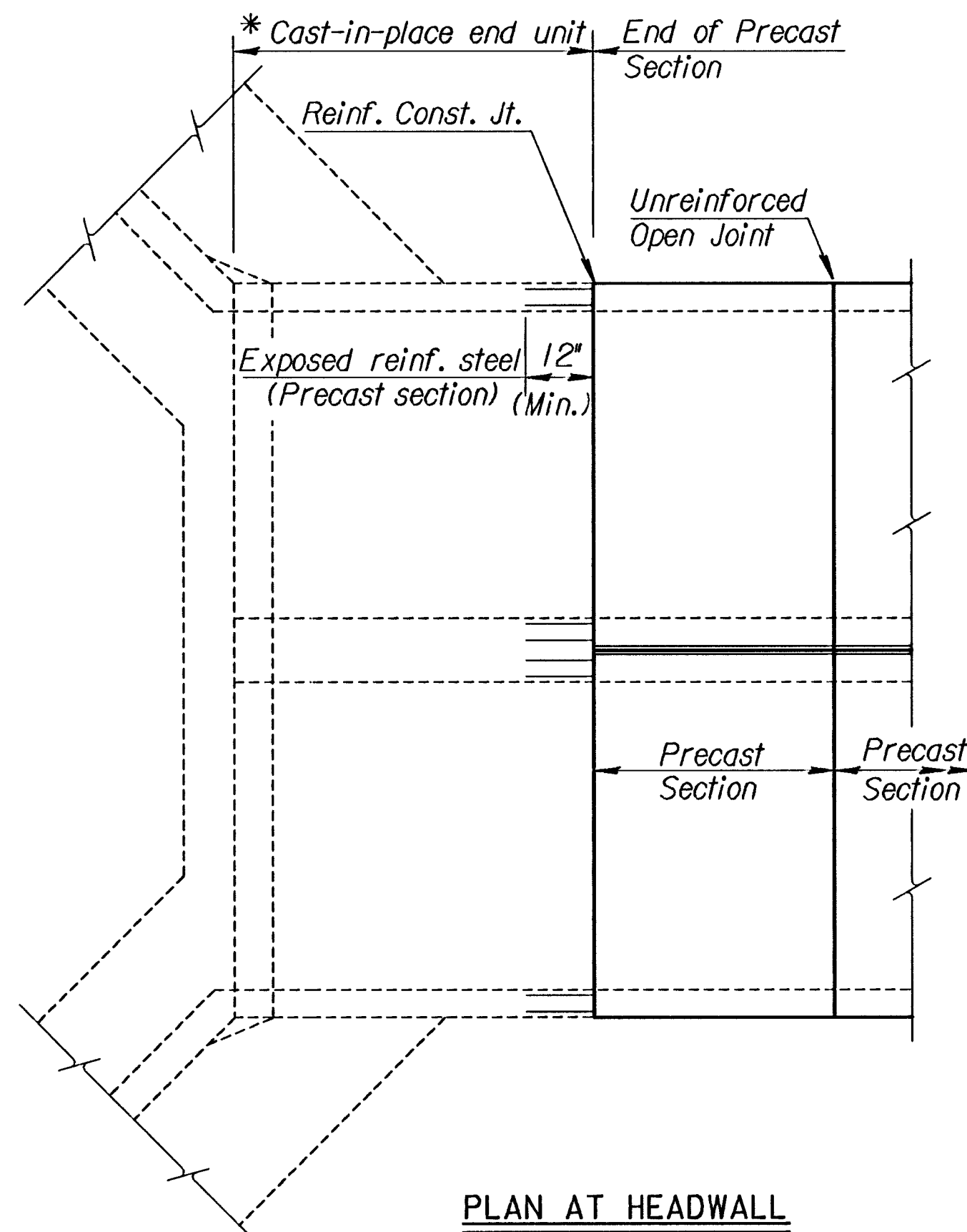
ELEVATION AT HEADWALL

** Minimum barrel length of cast-in-place end unit shall be 16'-0" when using an unreinforced open joint at the end of the precast section.

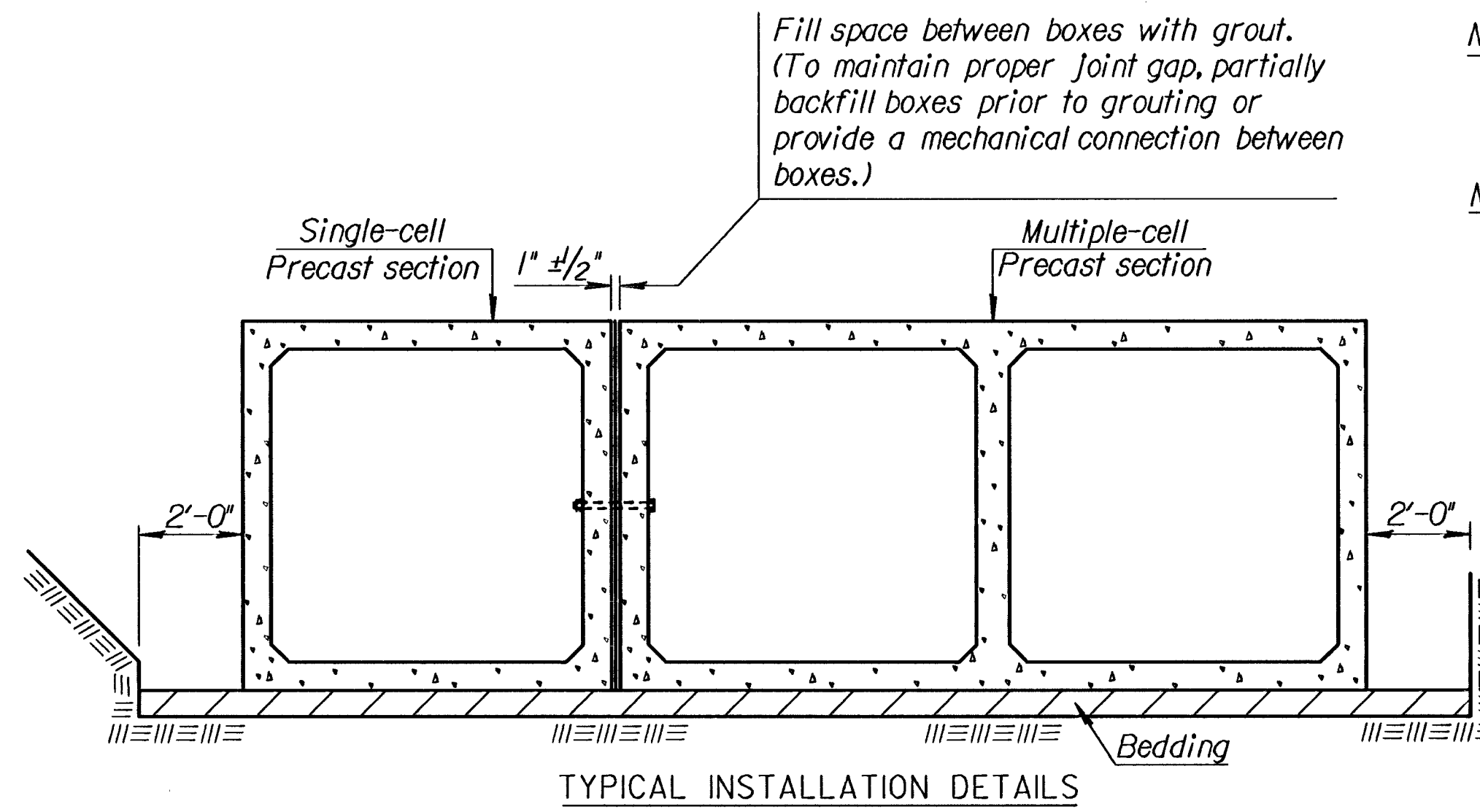


ELEVATION AT PRECAST END SECTION

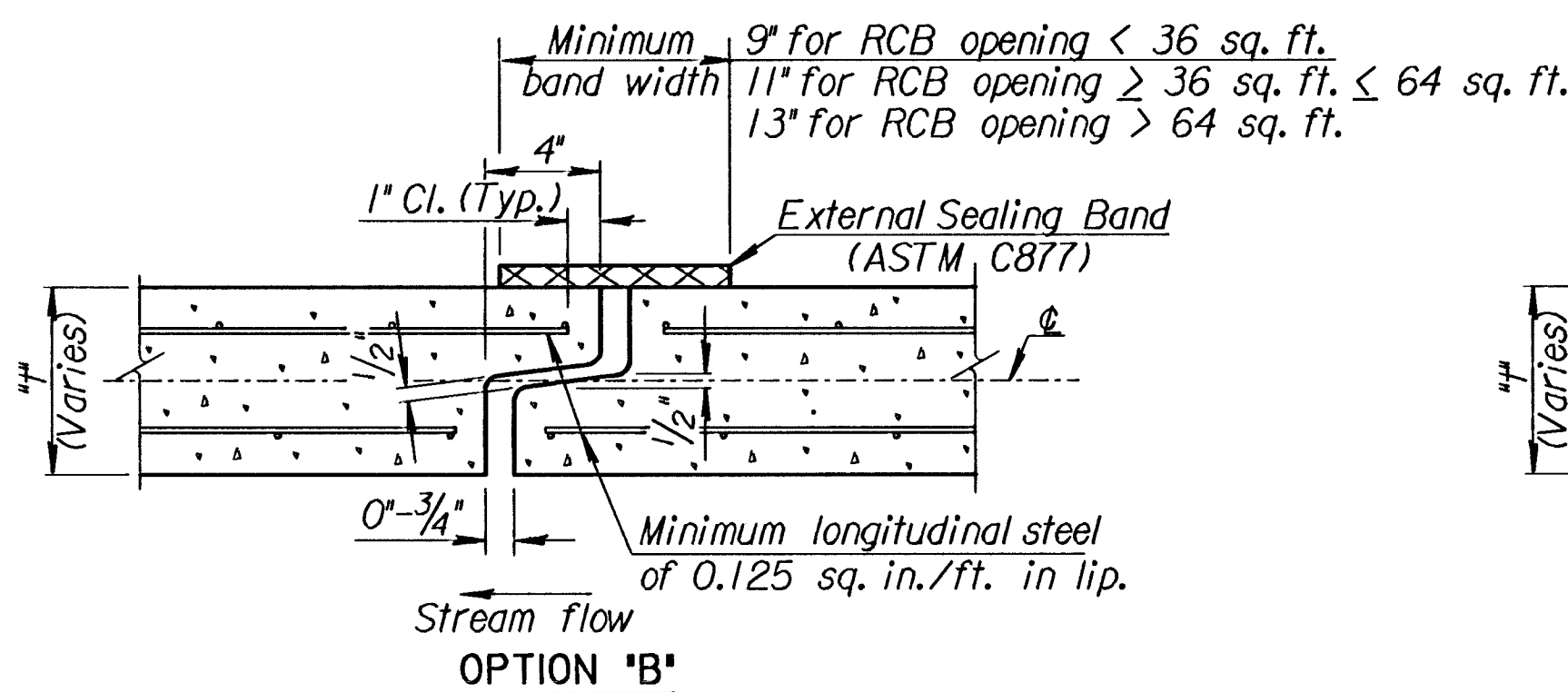
(Precast End Sections are permitted where straight wings are shown in the plans or at the downstream end for single cell RCB with a rise of six feet or less.)



PLAN AT HEADWALL
(Double culvert installation shown)



TYPICAL INSTALLATION DETAILS



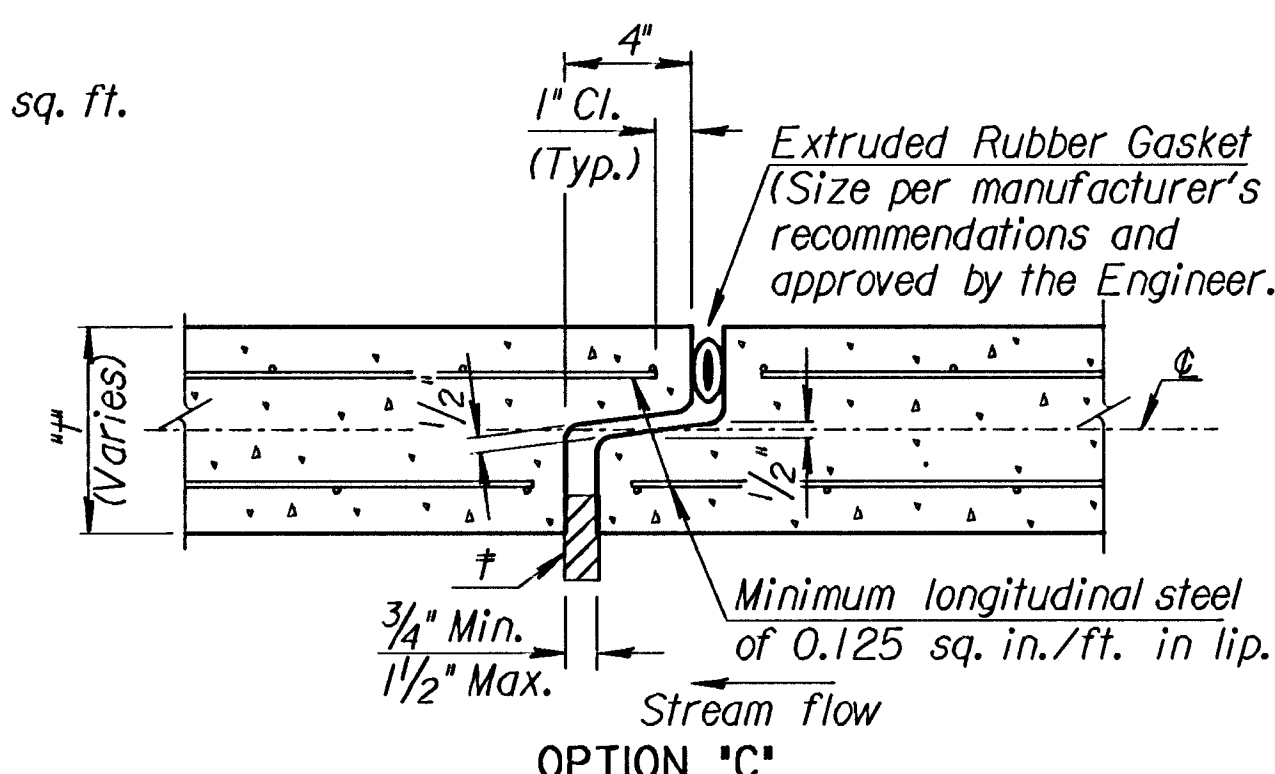
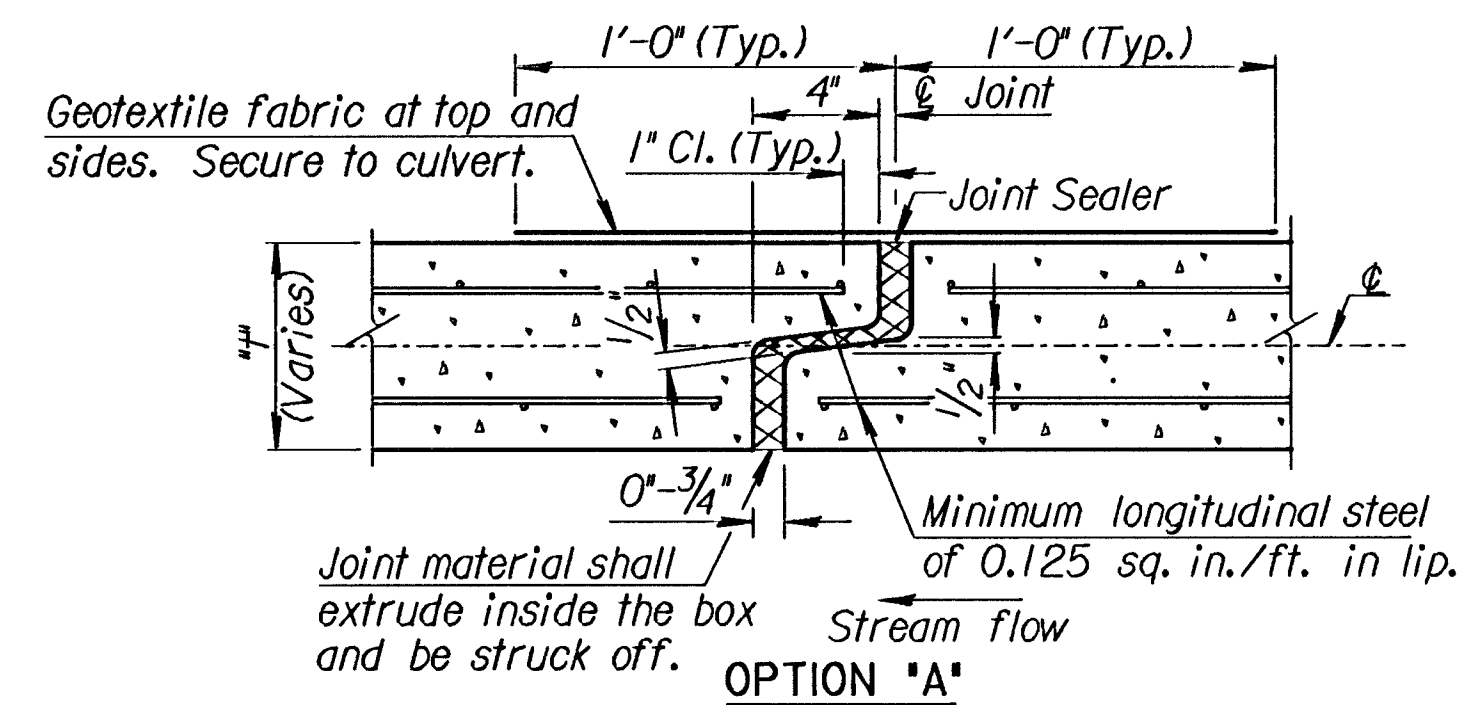
OPEN JOINT DETAIL

NOTE: See "Bridge Excavation" sheet, (Std. No. BR100), for excavation details and basis of payment.

NOTE: Minimum length of precast section shall be 4'-0".

NOTE: A single cell box of equivalent area may be substituted for a double cell box with cell spans less than or equal to 6'-0". Two single cell boxes may be substituted for a double cell box, when approved by the Engineer.

NOTE: See respective RCB Standard Sheets for cast-in-place details.



* Insert temporary, 3/4"-1" wide, hardwood wedges to prevent over-compressing gasket.

FHWA REGION NO.	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS	87N 0064-01	1997	43	130

GENERAL NOTES

PRECAST BOX CULVERTS: If precast boxes are specified, construct them at the locations shown in the plans and according to the requirement shown on this sheet. When approved by the Engineer, precast box culverts may be used in lieu of cast-in-place box culverts. If the Contractor chooses the precast option, use the cast-in-place quantities as the cost basis. This cost includes all labor, equipment, material and incidentals necessary to complete the installation.

Unless otherwise approved by the Engineer, use cast-in-place collars at horizontal and vertical changes in RCB alignment. Use cast-in-place end sections and wingwalls except as noted on this sheet. The Engineer may require cast-in-place sections at junctions of drainage structures.

Cast-in-place concrete work shall conform to the requirements of the KDOT Specifications and KDOT's "Guidelines for Structural Design and Detail of Reinforced Concrete Box Culverts". Use Class AAA concrete and Grade 60 reinforcing steel conforming to ASTM A615M for cast-in-place construction.

SPECIFICATIONS: Single-cell Precast Concrete Box Culverts shall conform to the requirements of the following specifications except as noted in the KDOT Specifications. Design multiple-cell precast boxes in accordance with the criteria used to develop the single-cell precast boxes. (See Appendices of ASTM Specification C789M and C850M and the latest AASHTO Specifications)

Condition	Min. Fill	AASHTO	Equiv. ASTM
> 2'-0" fill	2'-0"	M259, Table 2	C789, Table 2
< 2'-0" fill	0	M273, Table 2	C850, Table 2

NO.	DATE	REVISIONS	BY	APP'D
4	12-20-96	Revised CIP end unit details.	RAM	KFH
3	1-17-95	Revised general notes	LRR	KFH
2	6-22-94	Added option 'C' & revised notes	RAM	KFH
1	3-1-93	Revised general notes	RAM	KFH

KANSAS DEPARTMENT OF TRANSPORTATION
SENECA STA. 93+74.84, 97+27.67, 104+75.92, 117+00.31
MAY STA. 49+04.14, MERTON STA. 50+42.08
PRECAST CONCRETE BOX CULVERT DETAILS

DESIGNED	12-23-96	APP'D	KENNETH F. HURST
DETAIL CK.	DETAIL CK.	RAM QUAN. CK.	CADD CK.