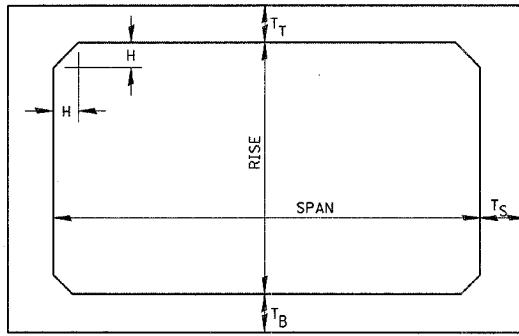


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
635	(105)BR-2	KANKAKEE	25	18
STA.		TO STA.		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

**GENERAL NOTES:**

MINIMUM COVER FOR BOX CULVERTS SHALL BE 6".

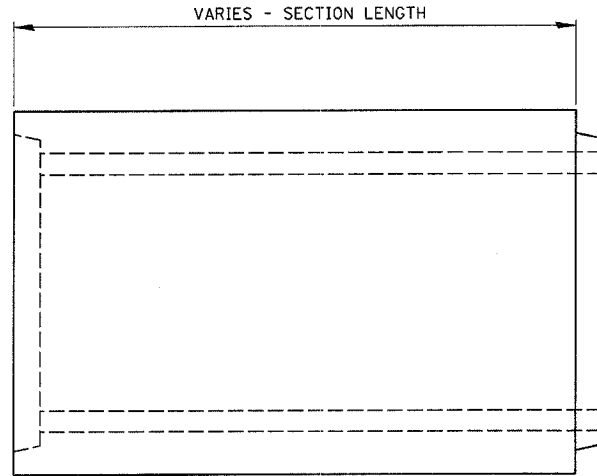
NOTE: THE HAUNCH DIMENSION H, IS EQUAL TO THE WALL THICKNESS TS.



**TYPICAL BOX SECTION**

SPAN, FEET	T <sub>T</sub> , INCHES		T <sub>B</sub> , INCHES		T <sub>S</sub> , INCHES	
	M 259	M 273	M 259	M 273	M 259	M 273
3	4	7	4	6	4	4
4	5	7 1/2	5	6	5	5
5	6	8	6	7	6	6
6	7	8	7	7	7	7
7	8	8	8	8	8	8
8	8	8	8	8	8	8
9	9	9	9	9	9	9
10	10	10	10	10	10	10
11	11	11	11	11	11	11
12	12	12	12	12	12	12

**TYPICAL THICKNESSES**



**ELEVATION**

**WATERWAY INFORMATION TABLE**

(Revised/Approved:09/01/2004)

Route: FAP 635 (IL 114) S.N. (Exist.): 046-0104  
 Section: (105) BR-2 S.N. (Prop.):  
 County: Kankakee Waterway: Yellowhead Creek

Drainage Area = 0.72 sq. mi.    Exist. Low Grade El. = 626.72 @ Sta. 257+73    Prop. Low Grade El. = 626.73 @ Sta. 257+73

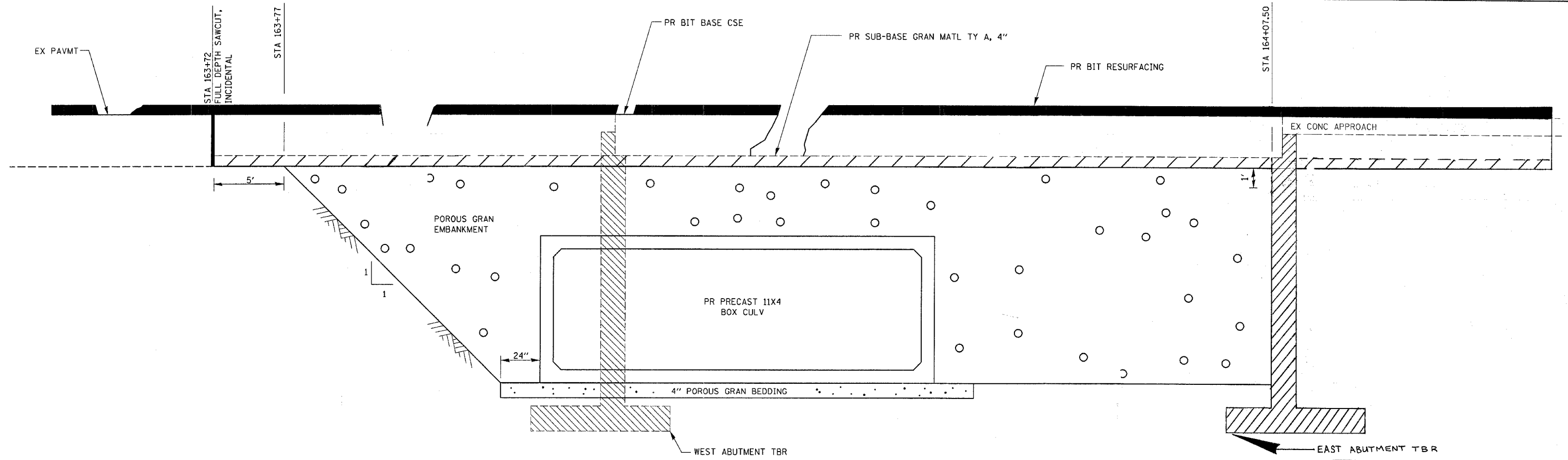
FLOOD	FREQUENCY (yr.)	Q (cfs)	OPENING - sq. ft.		NAT. H.W.E.	HEAD - ft.		HEADWATER EL.**	
			Exist.*	Prop.*		Exist.	Prop.	Exist.	Prop.
	10	67	66	44	625.48	1.20	1.14	626.70	626.62
Design	50	96	66	44	625.87	1.03	0.91	626.90	626.78
Base	100	107	66	44	626.00	1.00	0.85	627.00	626.85
Overtopping (exist.)	30	85	66		625.74	1.07		626.80	
Overtopping (prop.)	40	91		44	625.81		0.94		626.75

10-year velocity through existing struct. = 1.08 fps    10-year velocity through prop. culvert = 1.69 fps

\*Gross Area Opening

\*\*Taken at the upstream face of structure. Reflects the presence of a 36" pipe culvert downstream.

**PRECAST CONCRETE BOX SECTION**



**SECTION THROUGH PRECAST BOX CULVERT**

ILLINOIS DEPARTMENT OF TRANSPORTATION

**DETAILS**