

LOADING: HS20-44 A.A.S.H.T.O. Specification, 1983 Edition.

UNIT STRESSES:

Concrete  $F'_c = 4000$  p.s.i.  $F_y = 60,000$  p.s.i.  
 $F_c = 1600$  p.s.i.  $F_s = 24,000$  p.s.i.

CONSTRUCTION: Plan detail depicts cast-in-place/precast construction. The cast-in-place sections may be precast at the Contractor's option with the approval of the Engineer; if precast construction is used in place of cast-in-place sections, clearance between the R.C.B. and 48" Waterline should be maintained. Payment will be the same regardless of the option chosen.

JOINTS: Construction Joints shall only be formed at locations shown or as approved by the Engineer

EXCAVATION: All excavation and backfill shall extend two (2) feet beyond the sides of the box and 3'-5' beyond the centerline of the waterline.

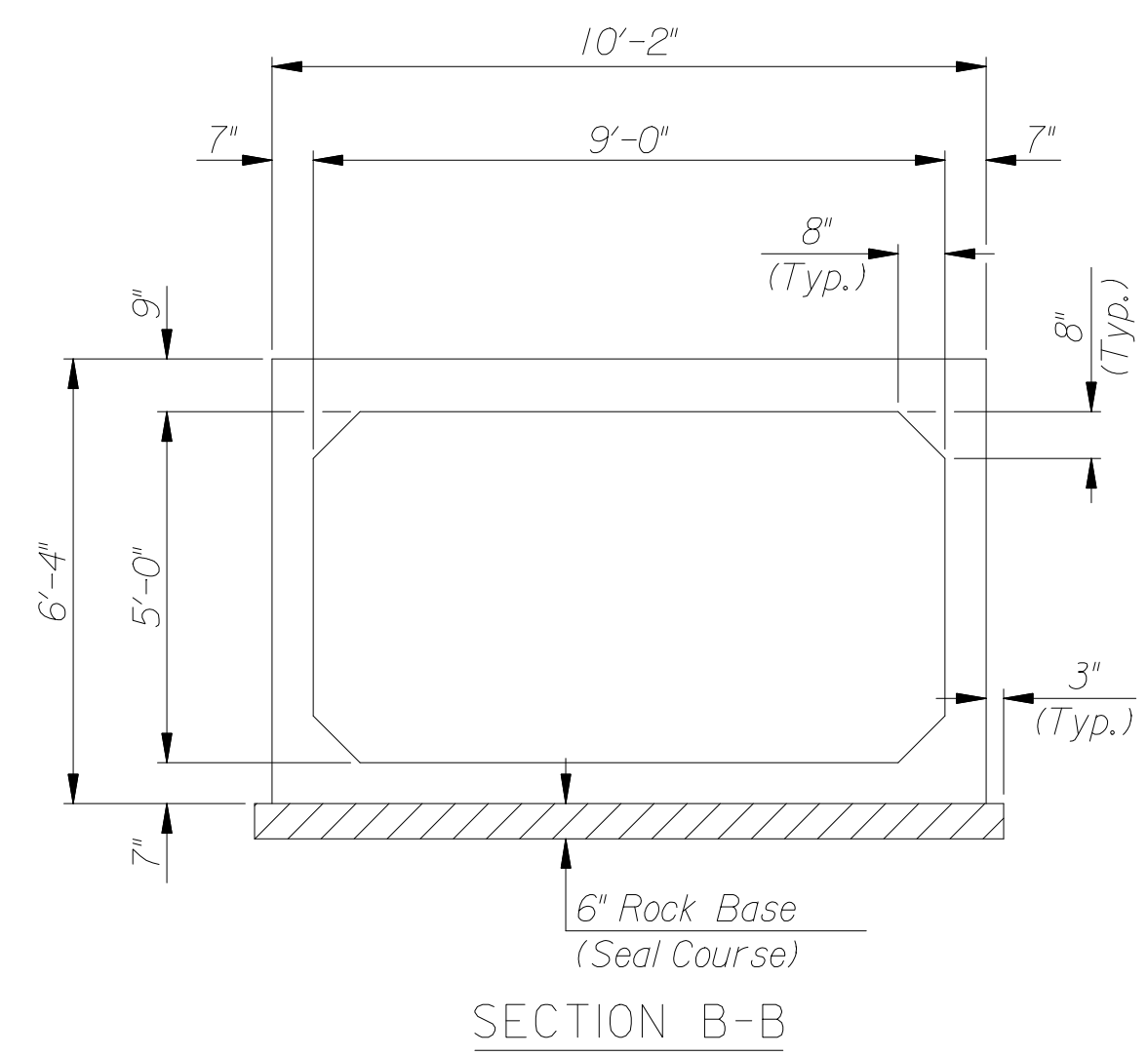
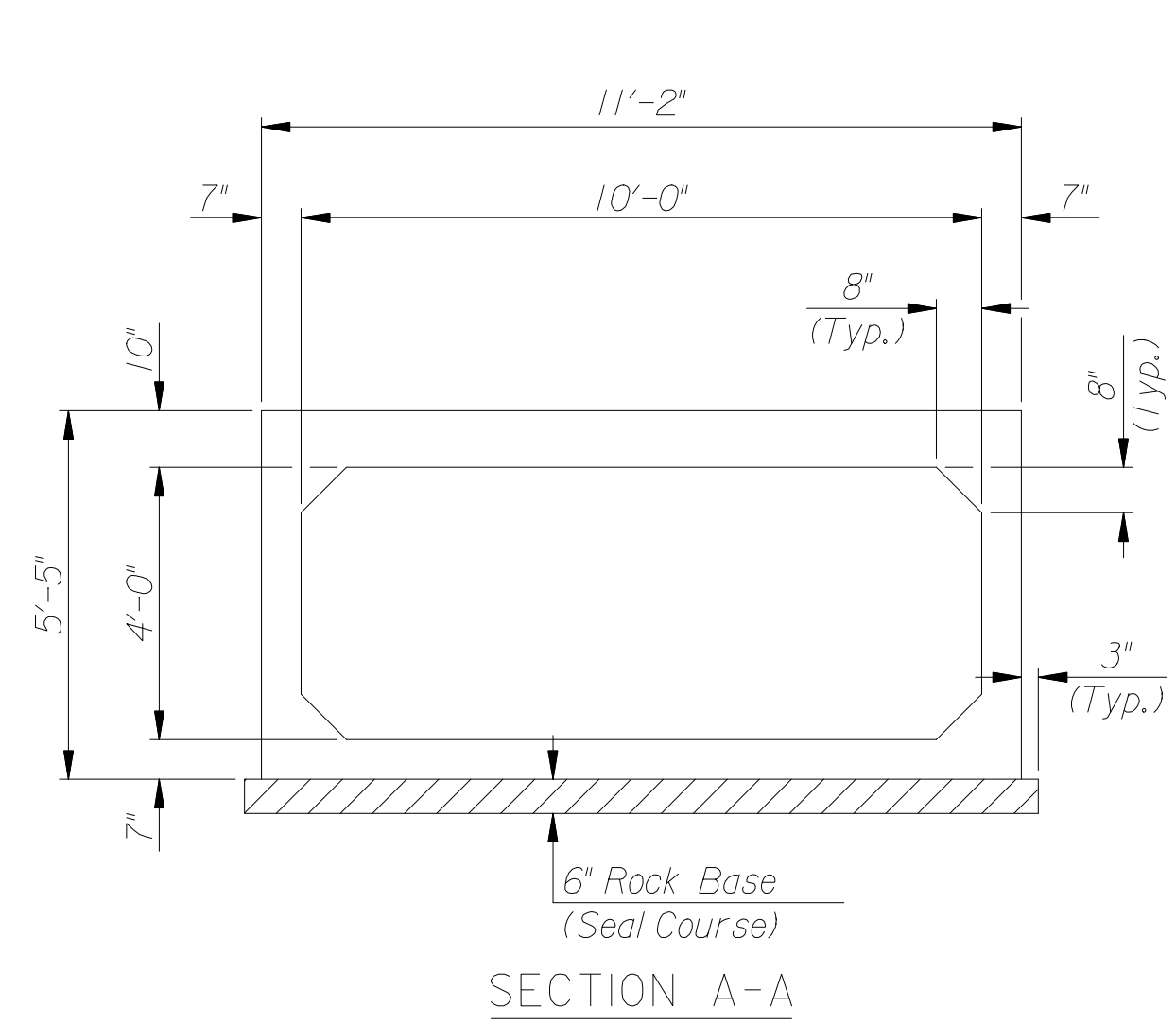
CONFLICT: If R.C.B. plan notes conflict with the General Notes from this sheet, then these General Notes will govern.

PRECAST CONCRETE: Precast Box Sections shall meet the appropriate design and inspection requirements of A.S.T.M. Designation C-850, Table 2 or C-789, Table 2 whichever is critical and the Loading Specifications. The intermediate joints shall be sealed with a mastic compound which shall be provided for approval with the shop detail submittal. The Contractor shall furnish, to the Engineer, detail plans and shop drawings showing the proposed precast layout and all other details for manufacture and delivery of any precast items to be incorporated into the work.

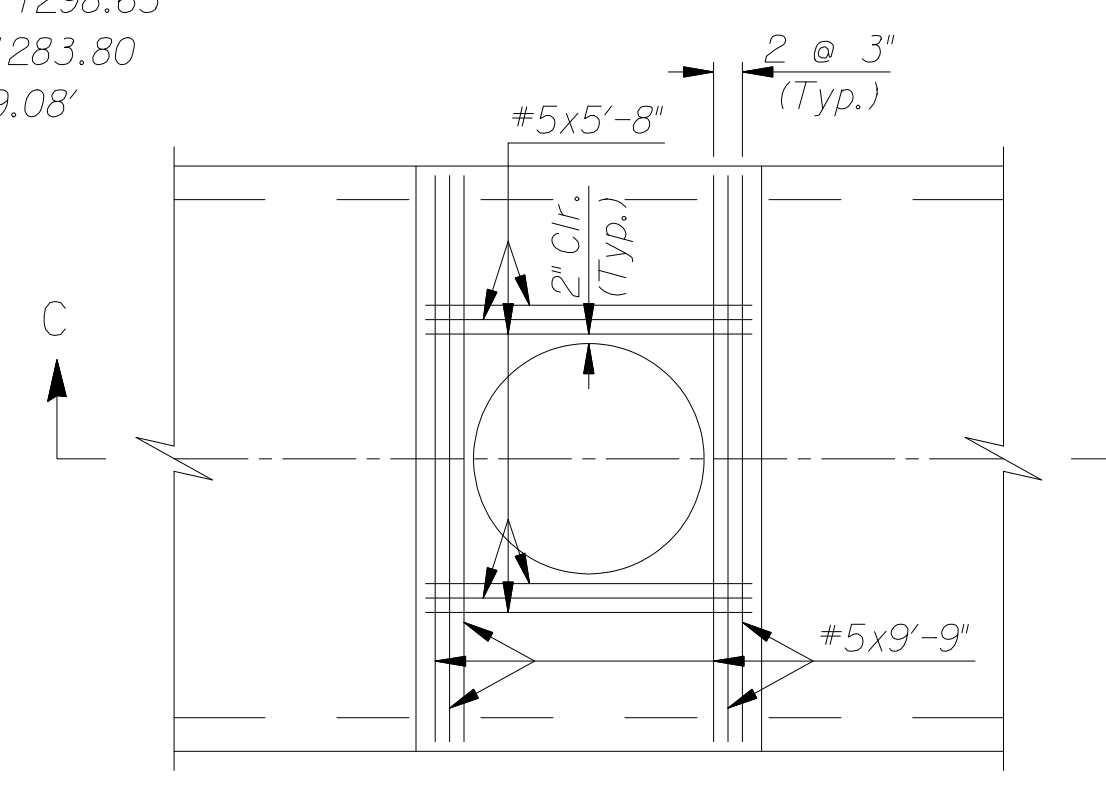
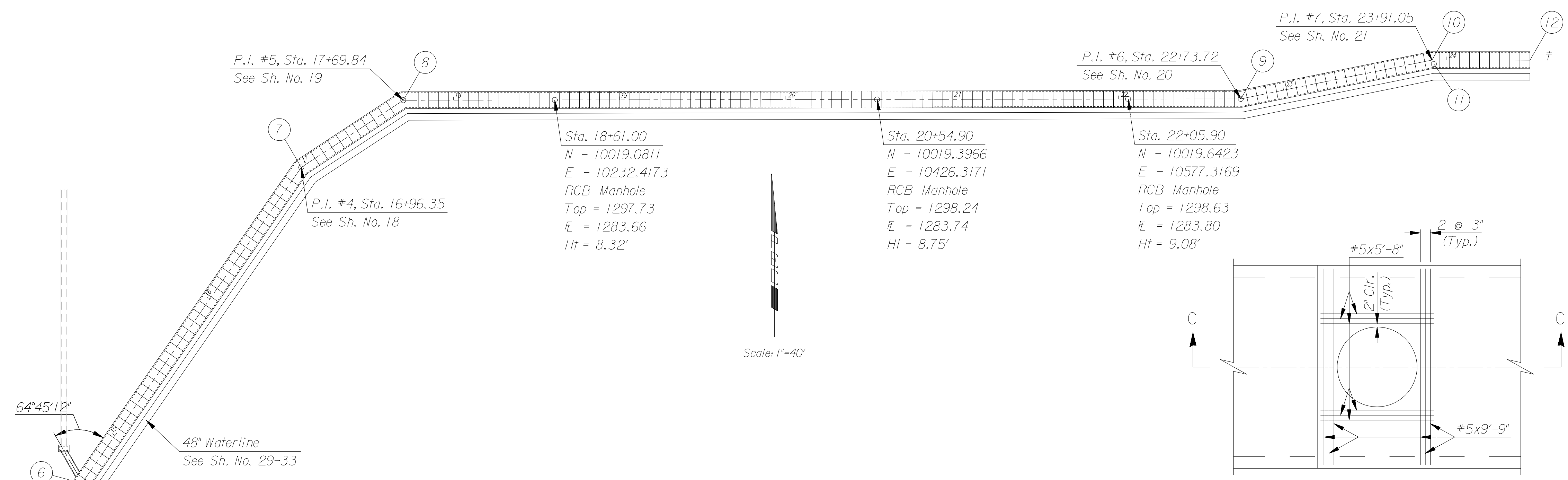
SEAL COURSE: A Seal Course shall be constructed below the R.C.B. as shown in the Plans. The Seal Course below Precast Sections shall consist of 6" of crushed rock conforming to ASTM C-33, Gradation No. 67, and shall meet the requirements for Portland Cement Concrete Pavement Coarse Aggregate, Section 406.2, City of Wichita Standard Specifications. P.I. Sections will also require the same seal course as the precast sections. No reinforcing shall be placed until the Seal Course has gained sufficient strength to permit working upon it without injury. Estimated quantity is 288 C.Y. and is considered subsidiary to the bid items "10'x4' R.C.B." or "9'x5' R.C.B."

REINFORCING STEEL: All dimensions relative to reinforcing are to centerline of bars unless otherwise noted. Bar bending and dimensions shall be as shown and noted on the Bar Bending Diagrams. Reinforcing used in the Precast Sections is not required to be epoxy coated. The concrete cover for all reinforcing shall be 1 1/2" minimum unless otherwise noted.

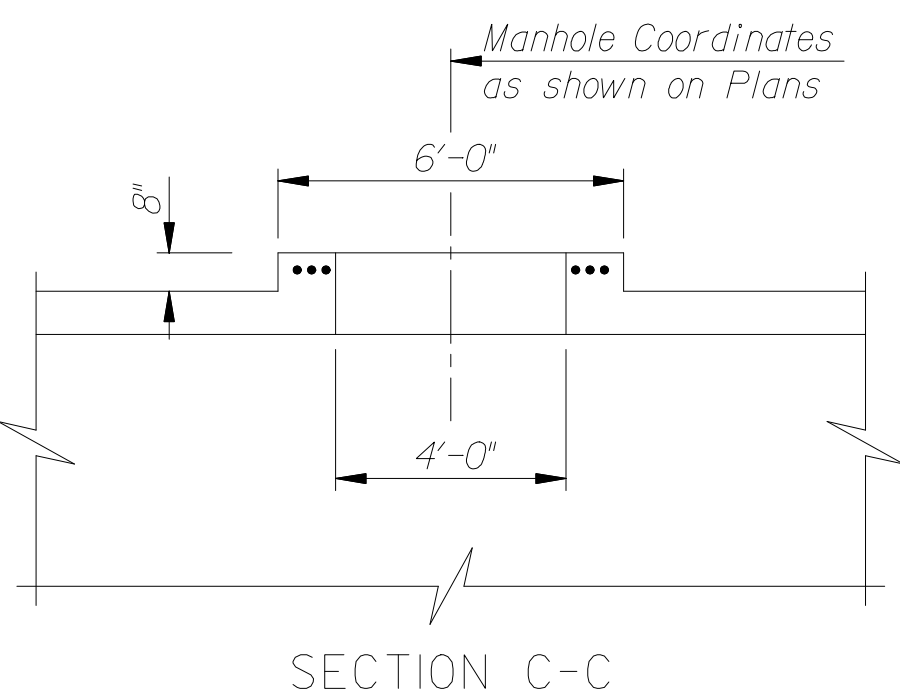
Doweling details between precast and cast-in-place ends must be submitted for approval by the Engineer.



† See Sh. No. 22 for R.C.B. plug detail

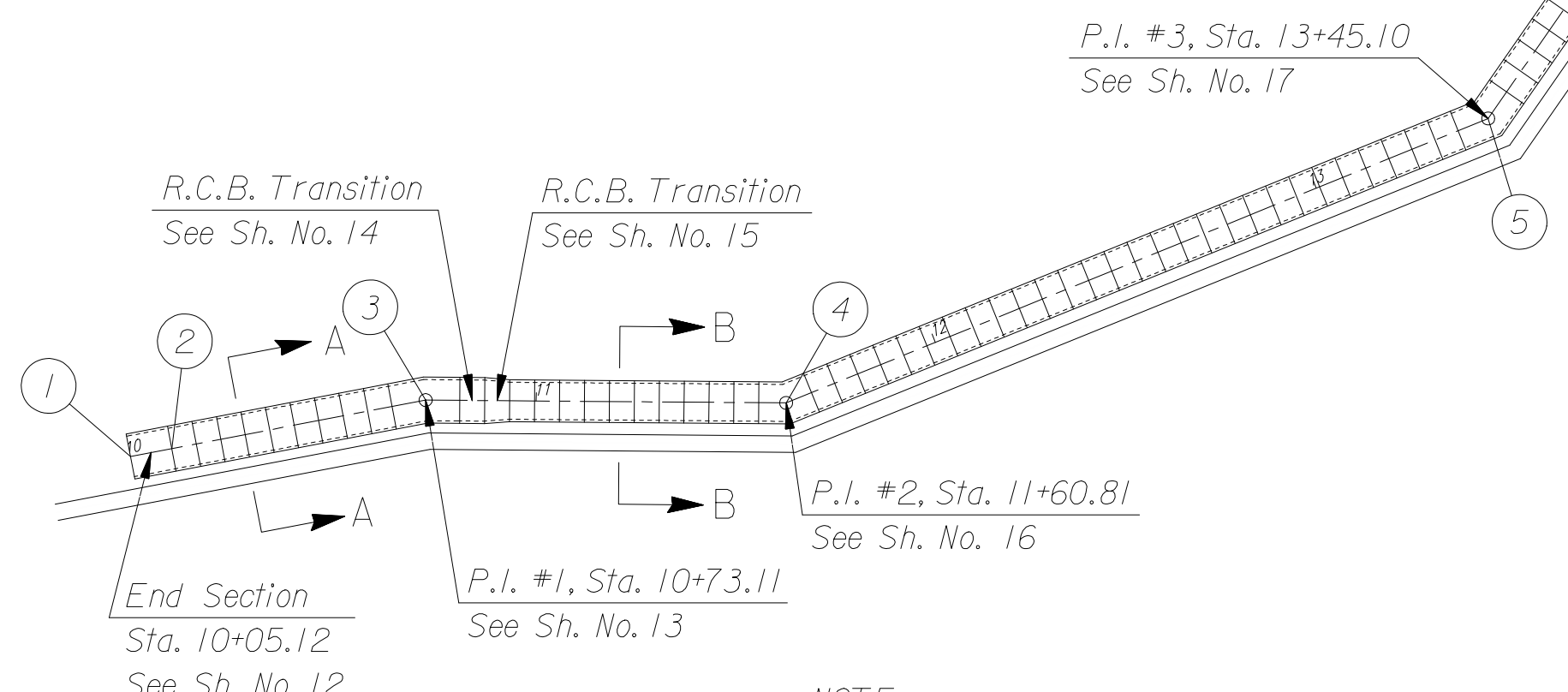


TYPICAL RCB MANHOLE ACCESS  
See Sheet 27 for RCB Manhole Details



SECTION C-C

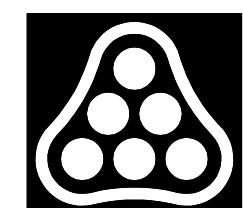
Note: Ht is based on the dimension from top of the manhole ring and cover to top of RCB. If RCB or P.I. top slabs vary, Ht must be adjusted



NOTE:  
Dowel joints between precast sections in the region between Point 2 and Point 3. See Sh. No. 29 for Compaction Details. See Waterline Details for procedure to rebuild disturbed areas at sheetpile wall.

TABLE OF COORDINATES						
REFERENCE	POINT NO.	NORTH COORDINATE	EAST COORDINATE	FLOWLINE ELEVATION	TOP ELEVATION	Ht
10'x4' RCB @ Beginning of Cast-In-Place	1	9607.8764	9549.0874	1279.00	-	-
10'x4' RCB @ Ending of Cast-In-Place	2	9609.7963	9559.1462	1279.10	-	-
Manhole 1 @ 10'x4' RCB	3	9621.5832	9620.9009	1279.73	1292.50	7.94'
Manhole 2 @ 9'x5' RCB	4	9620.9034	9708.6028	1280.61	1297.60	11.24'
Manhole 3 @ 9'x5' RCB	5	9690.1039	9879.4001	1282.45	1297.57	9.33'
Manhole 4 @ 9'x5' RCB	6	9788.6782	9947.9072	1283.51	1297.24	7.94'
Manhole 5 @ 9'x5' RCB	7	9978.5408	10079.8577	1283.60	1298.39	9.00'
Manhole 6 @ 9'x5' RCB	8	10018.9327	10141.2475	1283.63	1298.03	8.91'
Manhole 7 @ 9'x5' RCB	9	10019.7526	10645.1255	1283.83	1298.82	9.20'
9'x5' RCB	10	10043.0710	10760.1205	1283.88	-	-
Manhole 8 @ 2'-4" Rt. 9'x5' RCB	11	10040.7384	10761.2795	1283.88	1298.65	9.02'
9'x5' RCB East End	12	10043.0100	10819.0705	1283.90	-	-

Sheet 05-10-2006 3:19:55 PM by dlp  
 Plot Scale: 1"=40' 5-25-2006  
 I:\2005\05493-2\05493-002-Genote.dgn



No.	Revision	By	Date
DOWNTOWN ARENA SWD OUTFALL PHASE 1 - WATERWALK PORTION			
GENERAL NOTES AND LAYOUT			
JAMES L. ARMOUR, P.E. - CITY ENGINEER CITY OF WICHITA PROJECT NO. 468-84167 <b>Professional Engineering Consultants, P.A.</b> 303 S. TOPEKA • WICHITA, KANSAS 67202 316-262-2691 • FAX 316-262-3003			
Designed by	MSN	Job No.	32-05493-2-42
Drawn by	DRP	Date	April 2006
			Sh. 9 of 47