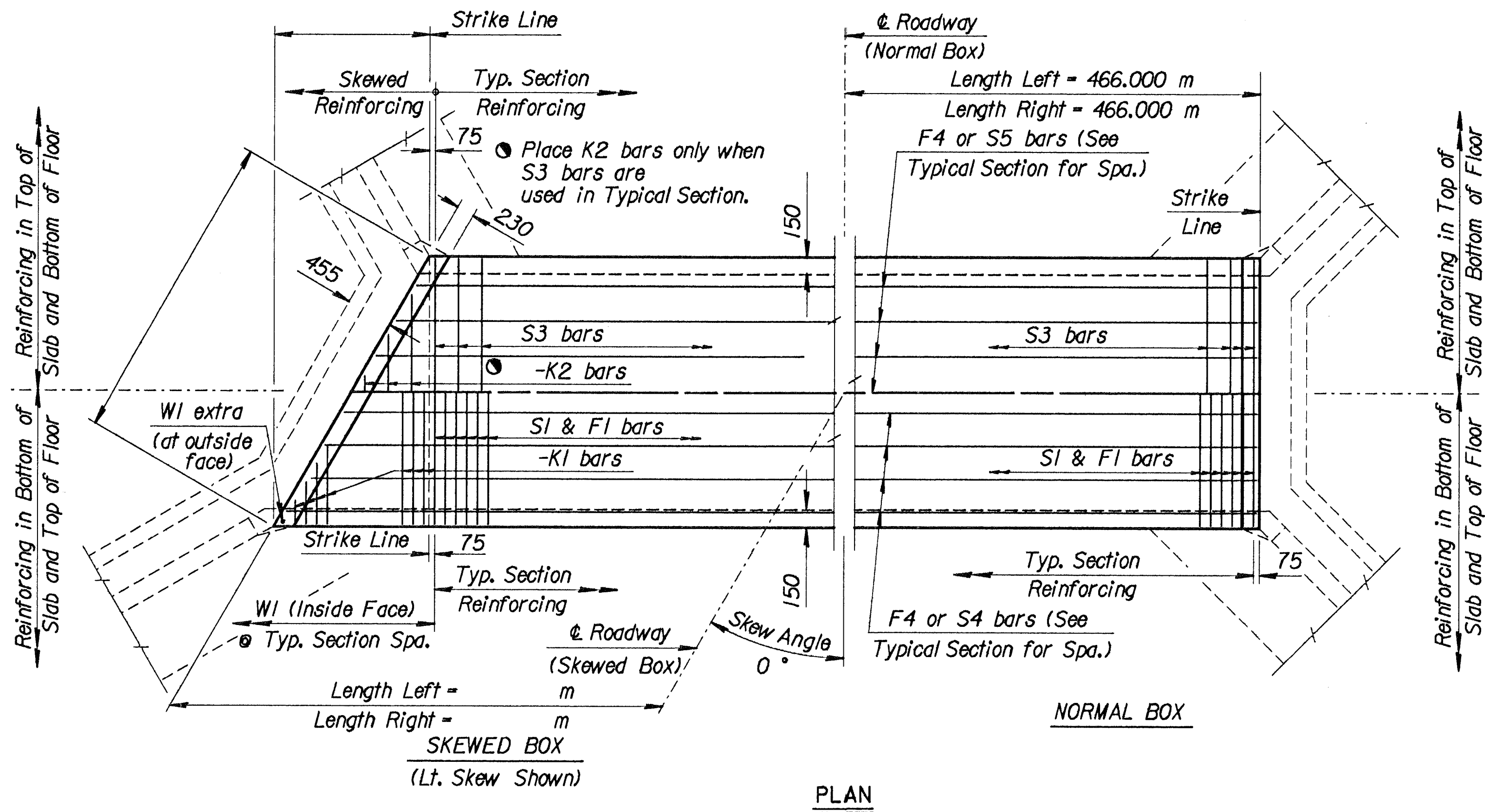
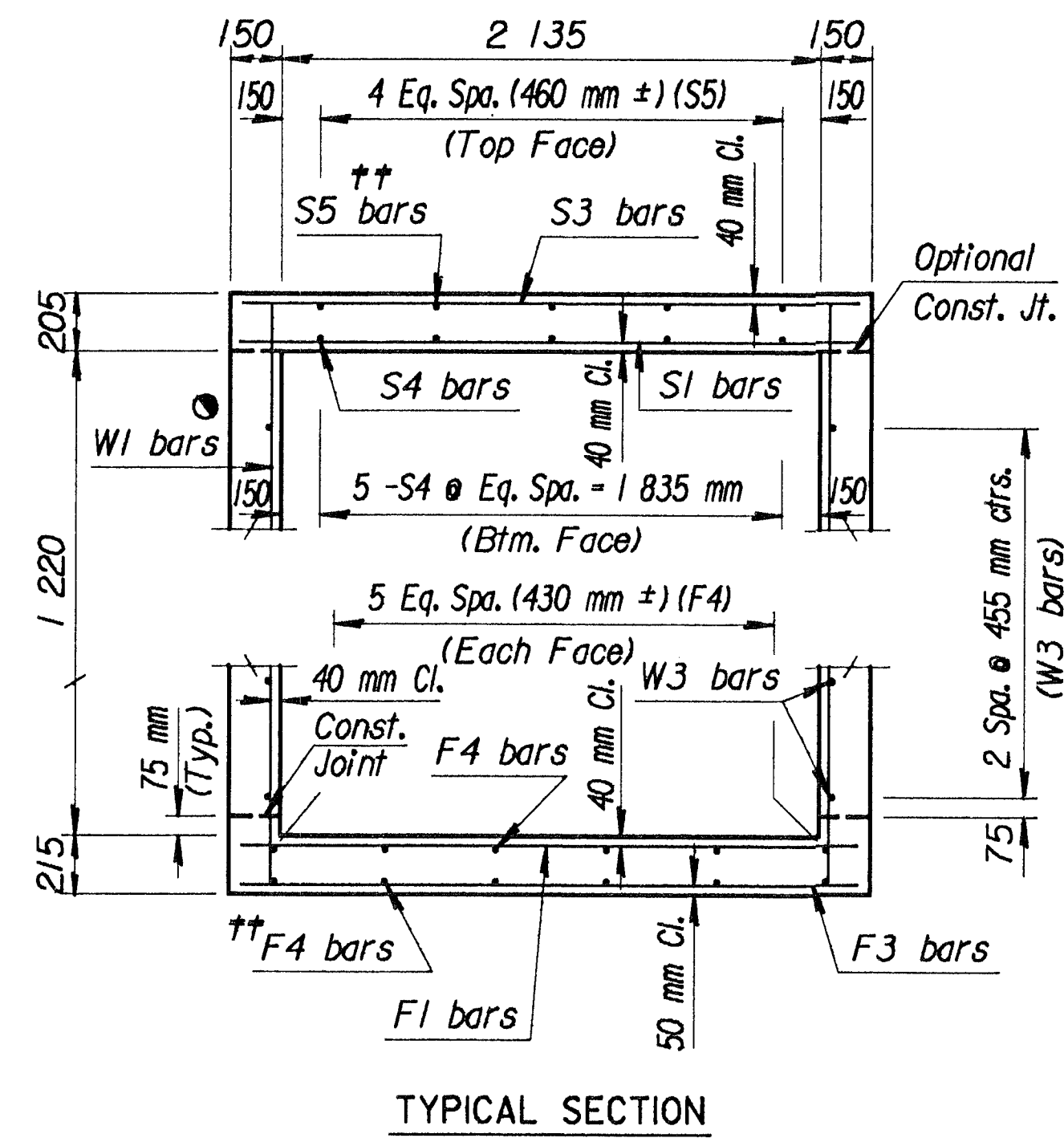
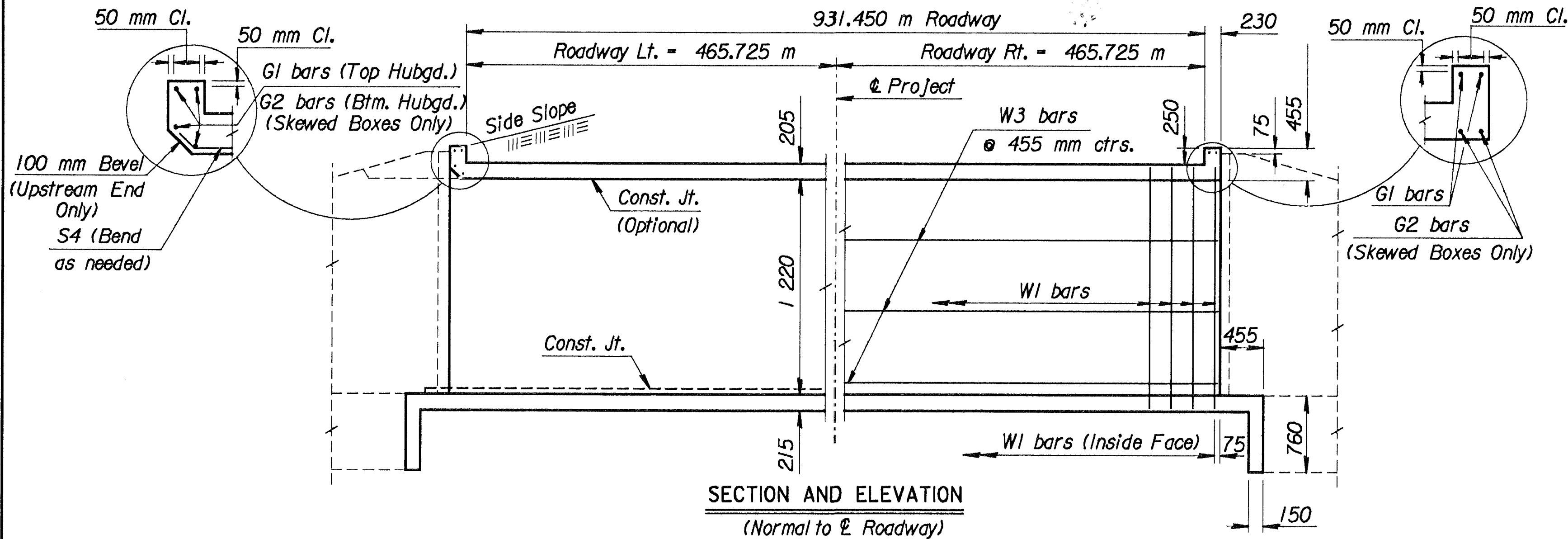


VERSION: 5.1.0m COMPILED: 03/01/95

DESIGN	CHECK	DATE
DESIGN	DATE	DATE
REVIEW	DATE	DATE
APPROVE	DATE	DATE
DESIGN	DATE	DATE
REVIEW	DATE	DATE
APPROVE	DATE	DATE

proj	view
/usr2/1proj/1.jrt.dgn	
23-JAN-1998 11:01	



CULVERT SUMMARY												
Flow Line Elev. Lt. (m)	Flow Line Elev. Rt. (m)	Crown Gr. Elev. (m)	Design Fill Ht. (m)	Skew	Left Wings	Right Wings	Scour Apron	Soil Saver	Granular Backfill	Concrete Barrel (m³)	Concrete Wings (m³)	Concrete Total (m³)
394.125	392.610	398.590	4.6	0	FLARED	FLARED	YES	NO	NO	1294.5	8.7	1303.2

BAR SCHEDULE																																	
F1								F3				F4			S1								S3				S4			S5			
Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	No.	Length				
15	125	7456	2 335	-	-	-	-	-	-	-	-	12	486	11 910	15	125	7456	2 335	-	-	-	-	-	-	-	-	12	405	11 910	-	-	-	
K1				K2				W1								W3							G1			G2							
Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	No.	Length	Size	Spa.	No.	Length	Size	No.	Length	Size	No.	Length	Size	Spa.	No.	Length	
-	-	-		-	-	-		12	230	8106	1 550	-	-	-	-	12	486	11 910	-	-	-	-	15	4	2 340	-	-	-					

Minimum Splice Lengths	
*12	405
*15	510
*20	610

SUMMARY OF QUANTITIES	
Class AAA Concrete	1303.2 m³
Class AAA Concrete (AE)	0.0 m³
Reinforcing Steel (Gr. 420)	83850 kg
Reinforcing Steel (Epoxy Coated)	0 kg
Class III Excavation	m³
Foundation Stabilization (Set)	1 m³
Concrete for Seal Course (Set)	1 m³
Granular Backfill (Wingwalls) (Set)	1 m³

- See RCB Auxillary Details for Optional Splice.
- Note:
S3 bars omitted unless grade box or slab thickness is greater than or equal to 305 mm.
- Note:
F3 bars omitted unless floor thickness is greater than or equal to 305 mm.
- ** Omit S5 bars when S3 bars are omitted and omit the bottom layer of F4 bars when F3 bars are omitted.

GENERAL NOTES

- DESIGN SPECIFICATION: AASHTO Specifications, 1983 Edition
- DESIGN LOADING: MS18-44
- UNIT STRESSES: Class AAA Concrete $f'_c = 28 \text{ MPa}$
Reinforcing Steel $f_y = 420 \text{ MPa}$
- FILL HEIGHT: Unless otherwise noted, the Design Fill Height is measured from the riding surface at the culvert and includes the surfacing.
- CONCRETE: Use concrete conforming to Class AAA Concrete. Bevel all exposed edges with a 20 mm triangular molding. Where Class AAA(AE) is specified, place this concrete in the top slab above the Construction Joint.
- REINFORCING: Use reinforcing steel conforming to ASTM A615M, Grade 420. All dimensions relative to reinforcing steel are to the centerline of the bar unless otherwise noted.
- EXCAVATION: Excavation for culverts less than bridge length shall not be paid for directly but shall be subsidiary to Class AAA Concrete. Excavation for RCB bridges shall be paid for as Class III Excavation.
- SEAL COURSE: The Engineer may require a seal course. The seal course shall be unreinforced Concrete (Commercial Grade) with a minimum depth of 75 mm or as determined by the Engineer. Concrete for the seal course shall be paid for at the unit price set for Concrete for Seal Course.
- FOUNDATION STABILIZATION: The Engineer may require Foundation Stabilization. The Engineer shall determine the depth of Foundation Stabilization. Foundation Stabilization shall be paid for at the unit price set for Foundation Stabilization. See the "Auxiliary Details" sheet.
- QUANTITIES: The quantities shown in the Culvert Summary include apron and/or soil saver quantities when they are required by the plans. Payment for additional quantities that result from including a seal course and/or a floating apron, as a change in the original plans, shall be made at the unit price bid for the various items involved.
- GRANULAR BACKFILL (WINGWALLS): The Engineer may require special backfill procedures. See the "Auxiliary Details" sheet.
- STRIKE LINE: Construct the wingwalls and that portion of the RCB outside the Strike Line level. Construct the wingwall footings with the culvert floor. See the wingwall detail sheets.

NO.	DATE	REVISIONS	BY	APP'D
1	01/98	Initial Design	SI	SI
2	01/98	Revised Design	SI	SI
3	01/98	Final Design	SI	SI

KANSAS DEPARTMENT OF TRANSPORTATION
STA. 0+474.978 to Sta. 1+406.888
SINGLE 2.1m x 1.2 m RCB LINE 1

BRI.7.4 SI SI SEDGWICK CO. 202

DESIGNED: KENNETH F. HURST
CHECKED: KENNETH F. HURST
QUANTITIES: KENNETH F. HURST
TRACE CK: KENNETH F. HURST