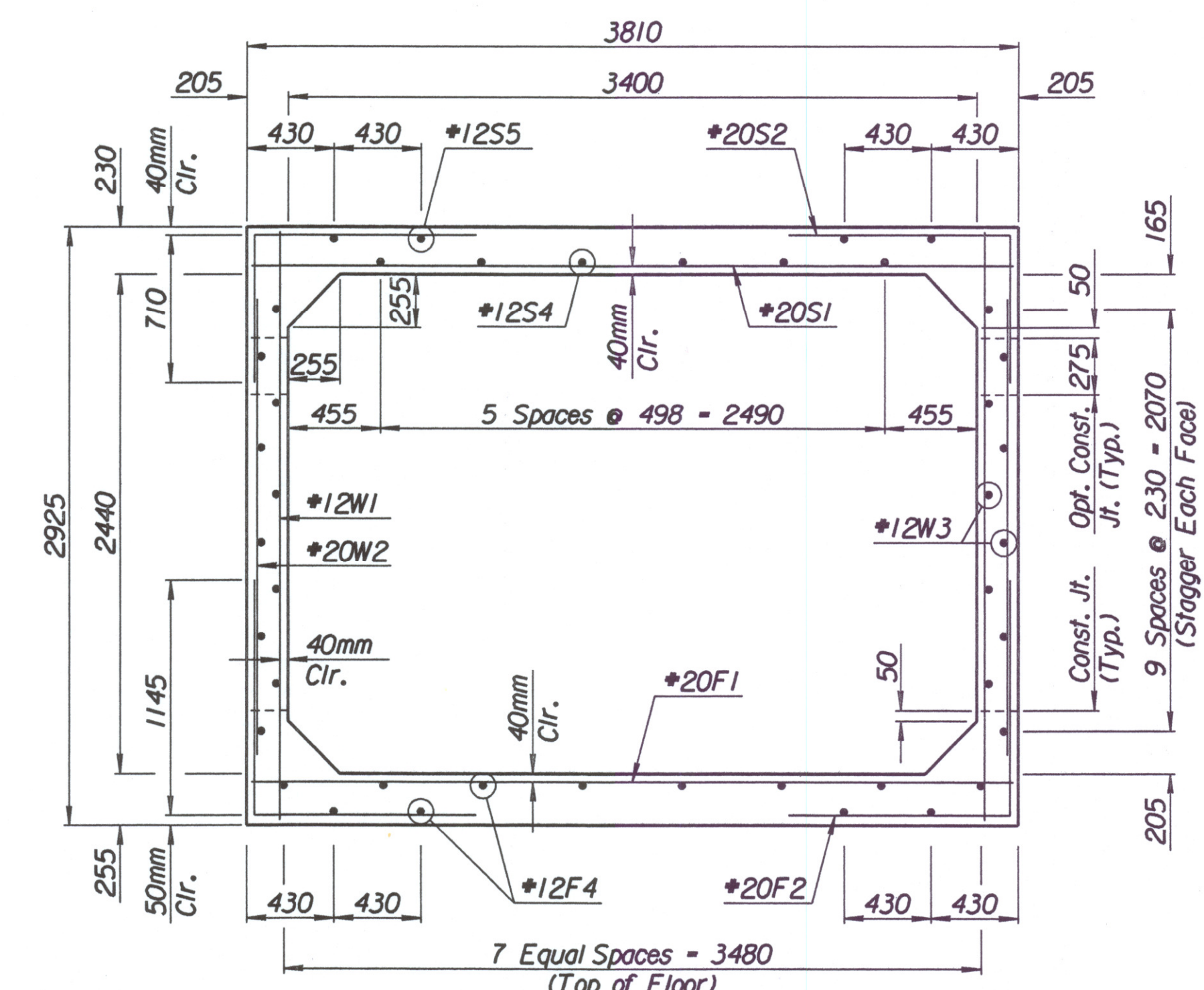
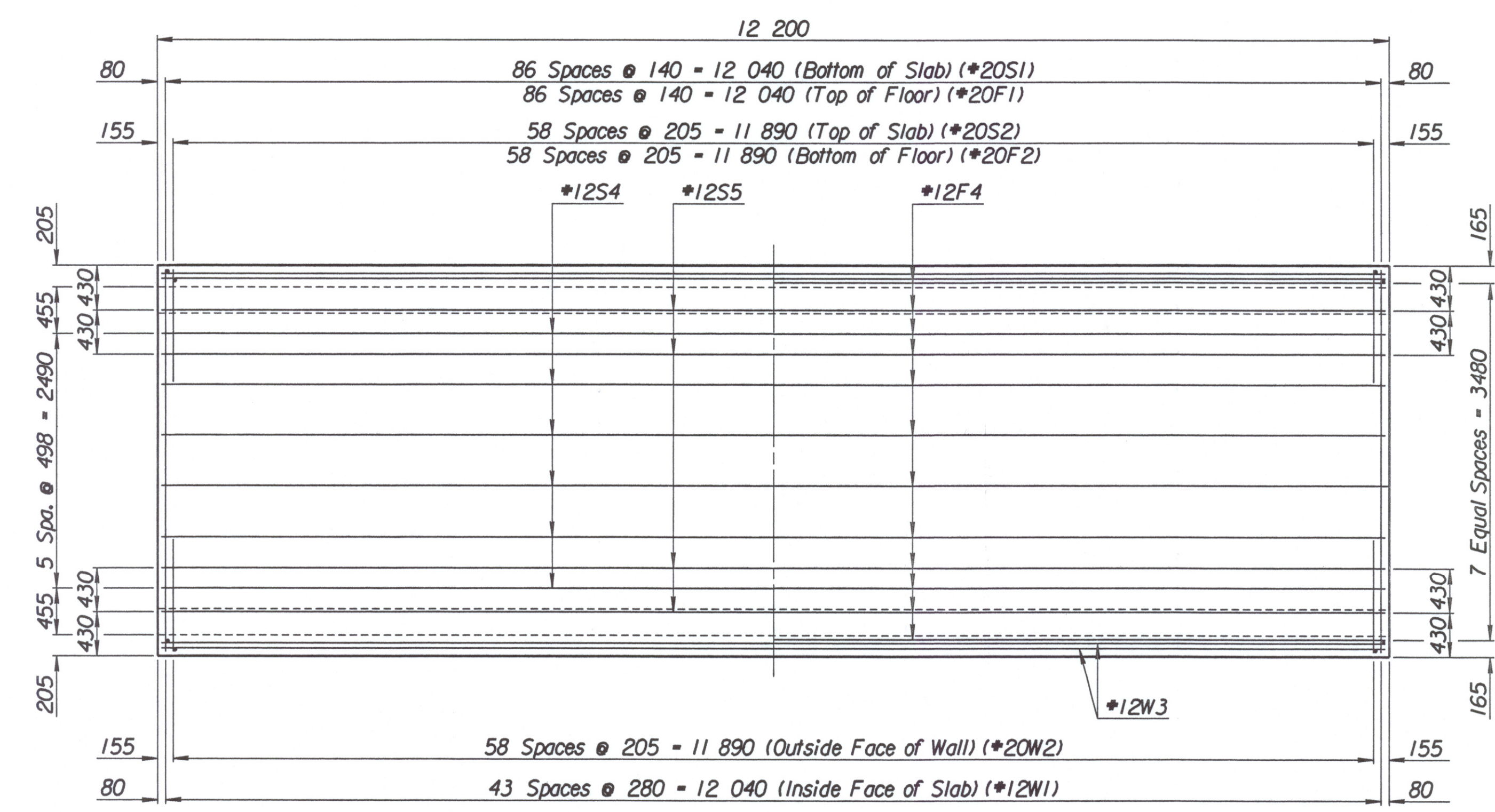


ELEVATION

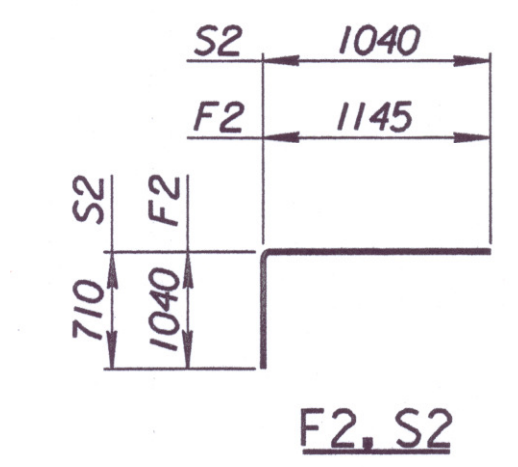


TYPICAL SECTION



SLAB REINFORCING FLOOR REINFORCING

PLAN



BENDING DIAGRAMS  
Dimensions are out to out of bars

**GENERAL NOTES**

**DESIGN SPECIFICATION:** AASHTO Specifications, 1983 Edition  
**DESIGN LOADING:** MS18-44  
**UNIT STRESSES:** Class AAA Concrete  $f'_c = 28$  MPa  
 Reinforcing Steel  $f_y = 420$  MPa

**FILL HEIGHT:** Unless otherwise noted, the Design Fill Height is measured from the riding surface at the culvert and includes the surfacing.

**CONSTRUCTION:** R.C.B.'s shown are for cast-in-place construction. The Contractor has the option of constructing either cast-in-place or precast R.C.B.'s. Payment for the structure will be the same regardless of which option is used for construction. See Sheet No. 432 for Precast Concrete Box Culvert Details.

**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.

REINFORCING STEEL							
Straight Bars				Bent Bars			
Mark	No.	Size	Length	Mark	No.	Size	Length
F1	87	#20	3710	F2	118	#20	2185
F4	12	#12	12 100	S2	118	#20	1750
S1	87	#20	3710				
S4	6	#12	12 100				
S5	4	#12	12 100				
W1	88	#12	2820				
W2	118	#20	2235				
W3	20	#12	12 100				

SUMMARY OF QUANTITIES		
Item	Quantity	Unit
Class AAA Concrete	36.3	m <sup>3</sup>
Reinforcing Steel (Grade 420)	3990	kg

Note:  
 Reinforcing steel schedule indicates reinforcing for ONE 3.4x2.4x12.2m R.F.B. Section. (Total sections = 21, from (E) to (Z)).  
 See Plan Profile Sheets for total number required.

No.	Revisions	By	Date
CITY OF WICHITA			
<b>TYPICAL 3.4x2.4x12.2M R.F.B. DETAILS</b>			
KELLOGG (US-54)			
SEDGWICK COUNTY			
<b>Professional Engineering Consultants, P.A.</b>			
303 S. TOPEKA • WICHITA, KANSAS 67202 316-262-2691 • FAX 316-262-3003			
Designed by	R.W.A.	Checked by	R.A.S.
Drawn by	W.L.L.	Date	April, 2002
		Job No.	97362

Drawn by: wil  
 Plotted by: ras 2-9-2002  
 i:/1997/97362/001/rab/34sec