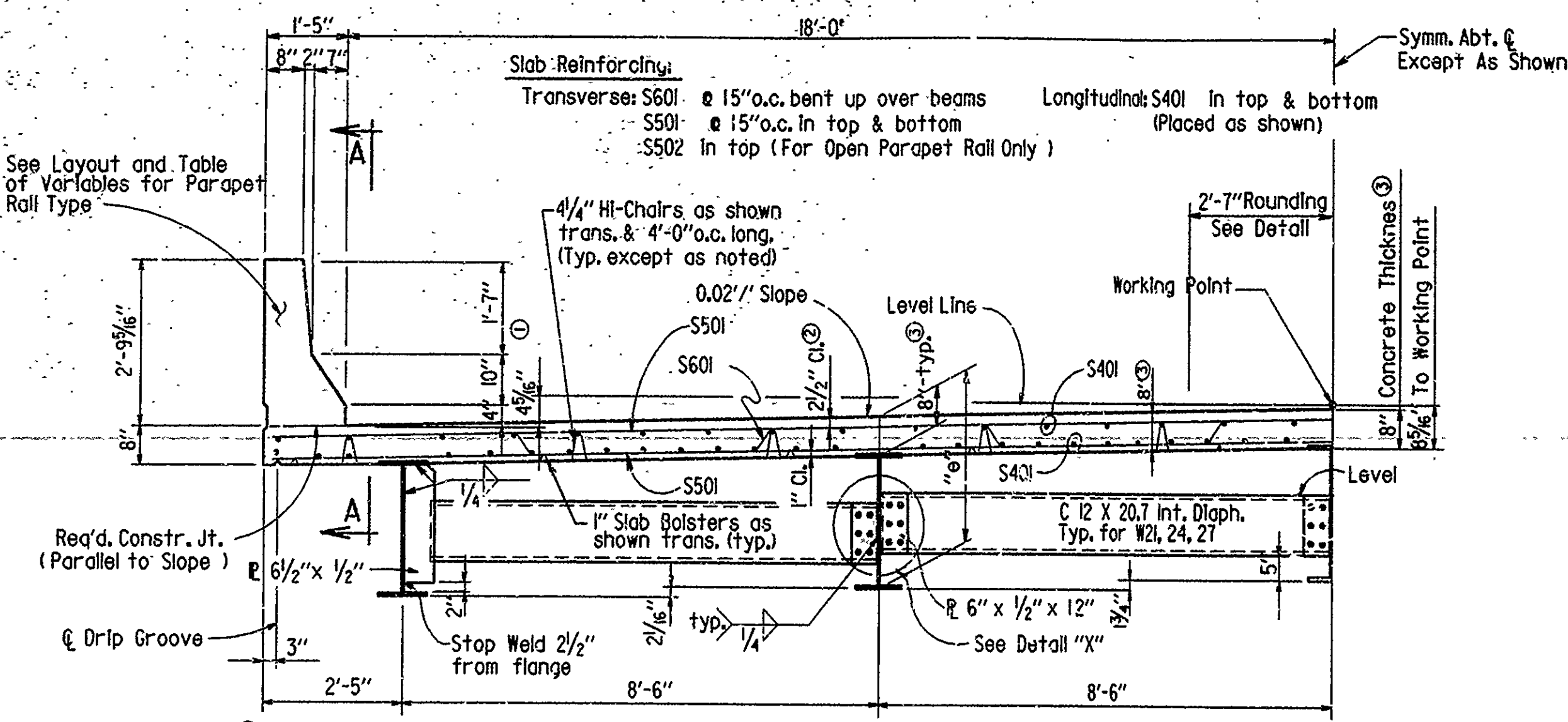


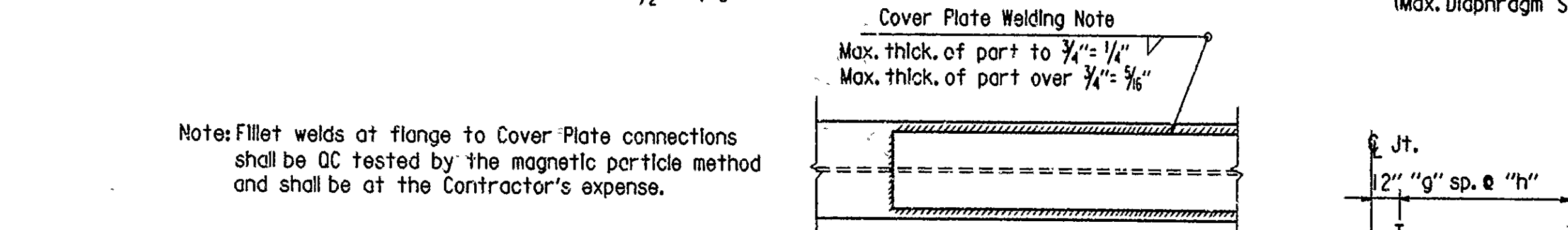
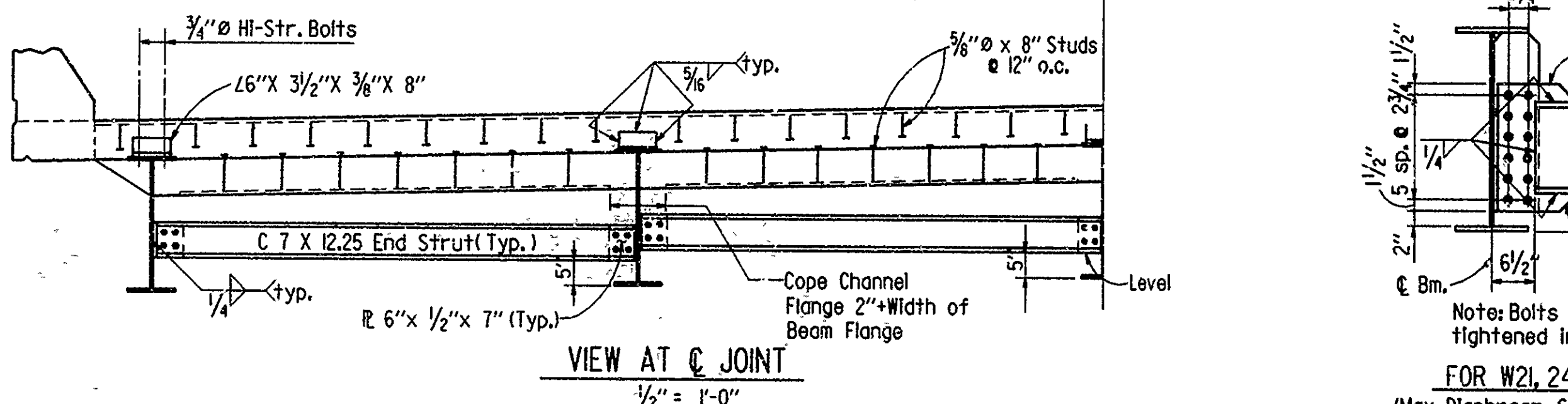
Note: Balled Linseed Oil Treatment shall be applied to the Roadway Surface and the Face and Top of Concrete Parapet Rail.

Note: At Contractor's Option, in lieu of providing bar S601, one #6 bar top & bottom may be substituted. Payment for Reinforcing will be based on the weight of bar S601.



HALF-SECTION NEAR MIDSPAN
1/2" = 1'-0"

Expansion Device:
Rdwy. C 15 x 33.9
Conn. L's 6" x 3/2" x 3/8" x 8"
Detail Device 1/8" high & provide 1/4" Shlms using 2- 1/16" & 1- 1/8" Rs



COVER PLATE DETAIL
N.T.S.

Mk.	Size	Length	Pin Dia.	Number Required		Span No.	Span Length (S)		Bending Diagrams (Dimensions are out to out of bars.)
				50'-0"	75'-0"				
S401	4	*	Str.	154	164				<p>**1/2" Overtolerance, No Undertolerance.</p>
S501	5	38'-6"	Str.	80	120				
S601	6	39'-6"	4 1/2"	39	39				
P401	4	6'-4"	2"	100	160				
P402	4	5'-7"	2"	100	160				
P403	4	f- 6"	Str.	40	64				
P404	4	5'-10"	2"	60	96				
P405	4	3'-2"	2"	60	96				
S502	5	4'-4"	Str.	84	126				
P601	6	f- 6"	Str.	50	80				
* For S ≤ 40'; Length = S-6" For 40' < S ≤ 78'; Length = S/2+7" For S > 78'; Length = S/3+12"									

Common Bars

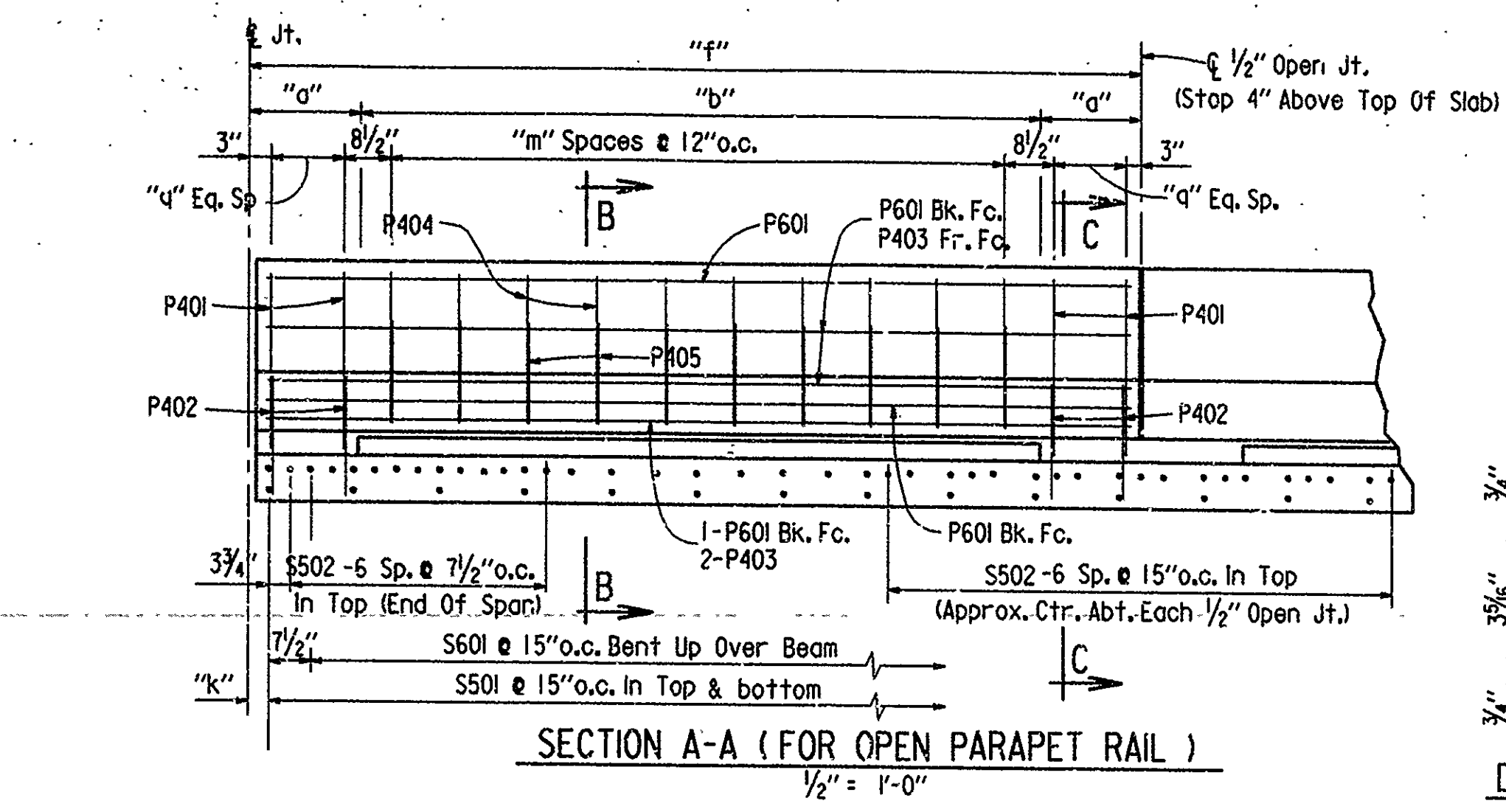
For Open Para. Rail Only

SPACING FOR CONNECTORS

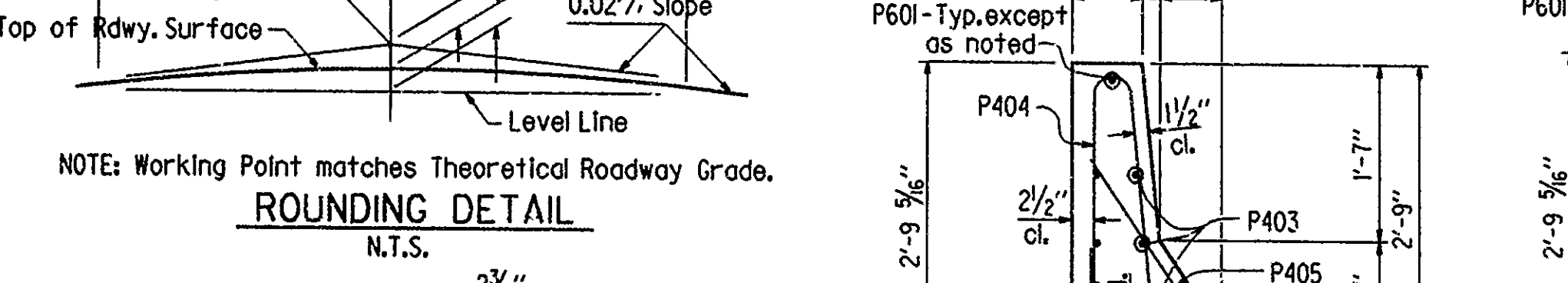
Note: Stud Shear Connectors
In place of the 1/8" Ø Studs
place of one 1/8" Ø Stud, 1/8
ment of structural steel in

Bridge No.	Span			
	No.	Length (S)	Beam Size	Cover & Size
6293		50'-0"	W30X99	
		75'-0"	W36X135	3/8"X10 1/2"X48'-6"

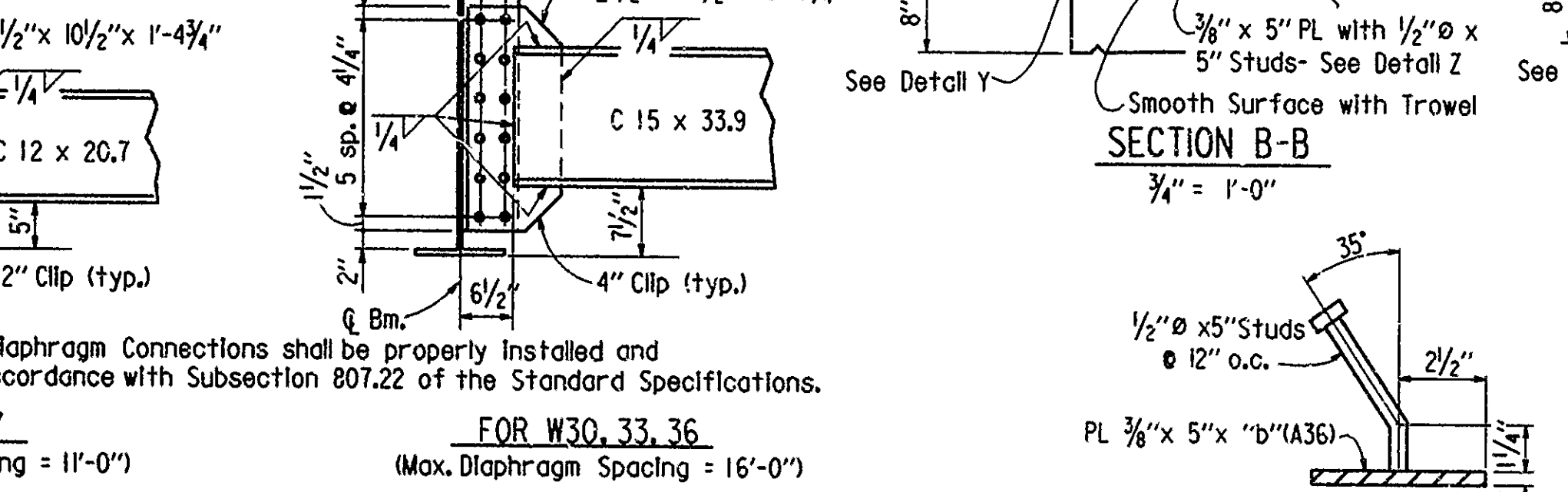
Tabular Data By: LDF Date



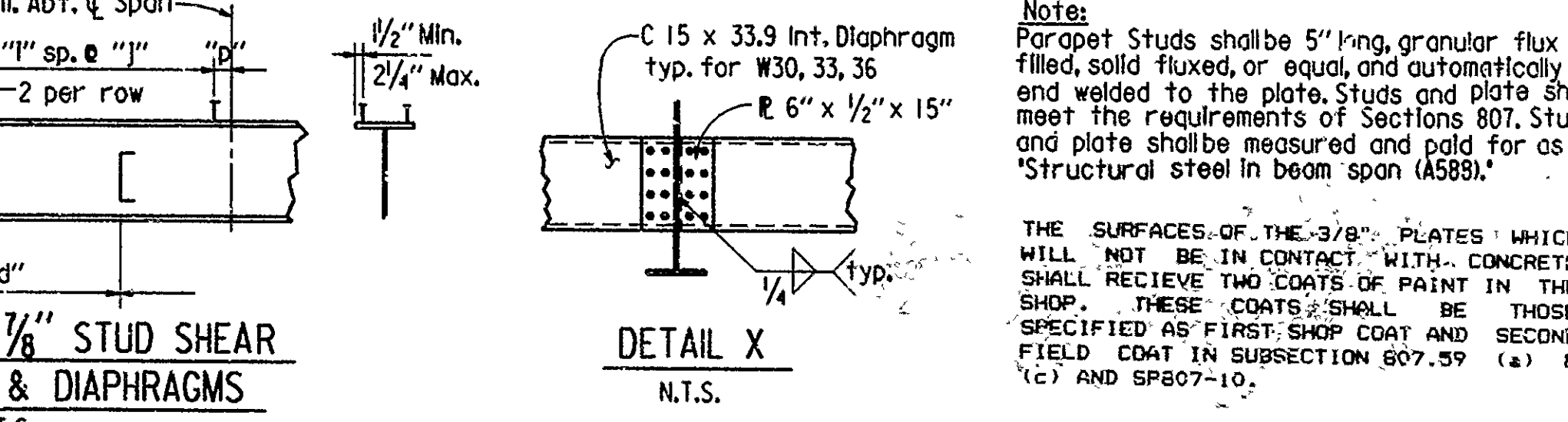
SECTION A-A (FOR OPEN PARAPET RAIL)
1/2" = 1'-0"



ROUNDING DETAIL
N.T.S.



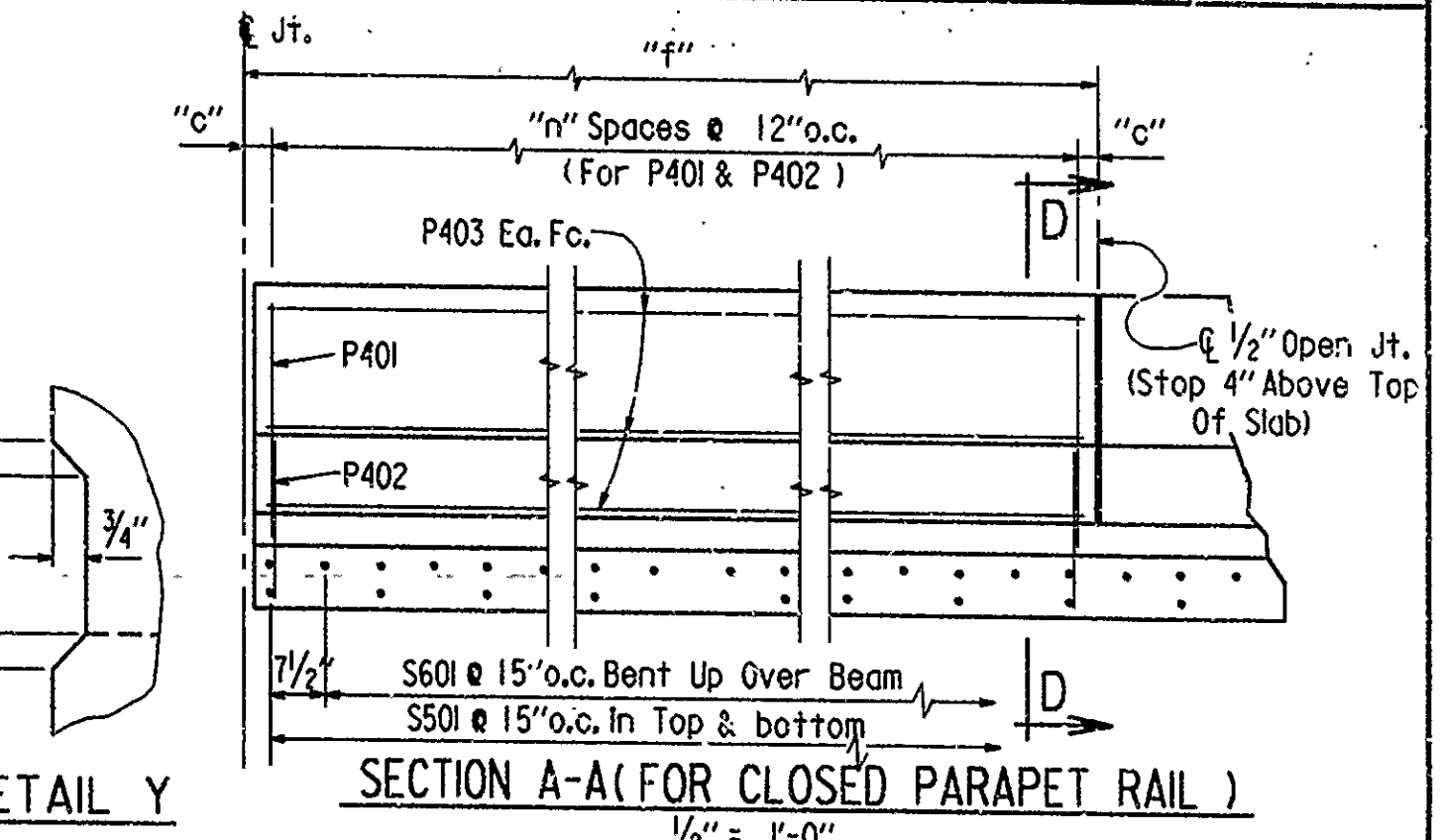
DIAPHRAGM CONNECTIONS AT EXTERIOR BEAMS
N.T.S.



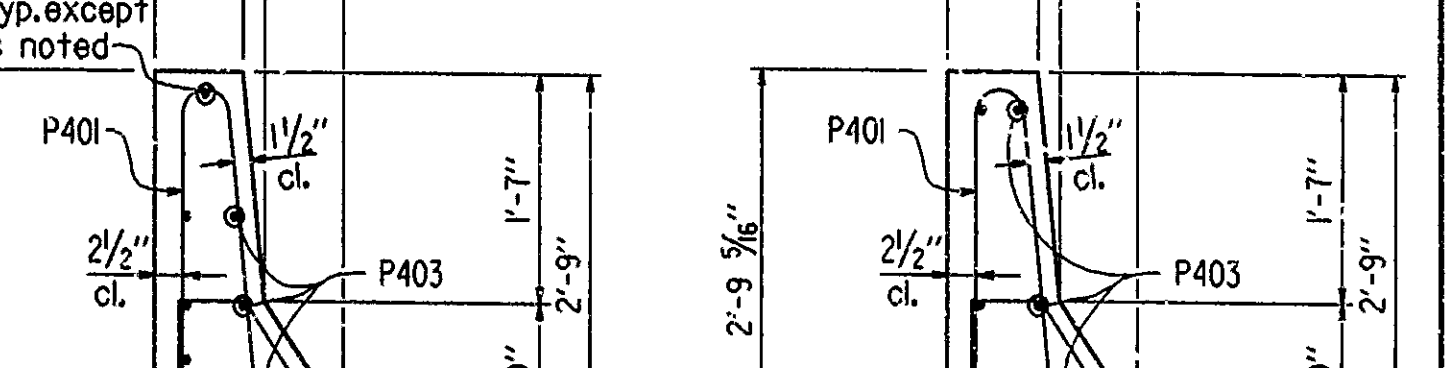
SPACING FOR 1/8" STUD SHEAR CONNECTORS & DIAPHRAGMS
N.T.S.

TABLE OF VARIABLES									
Bridge No.	No.	Length (S)	Beam Size	Cover R Size	"a"	Diaphr. Spacing	Variable Of Shear Connector Spacing	Parapet Joint Spacing	Open Rail Variables
6293	50'-0"	W30X99	3'-0 3/4"	14'-0"	11'-0"	8	8	22	10' 4"
	75'-0"	W36X135	3'-0 1/2"	14'-0"	13'-9"	18	9	23	12' 0"

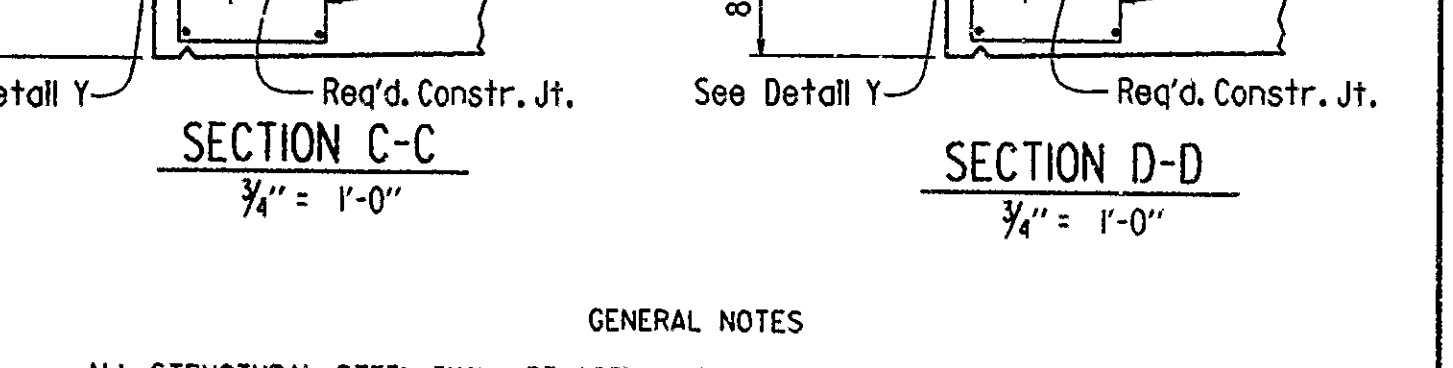
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
7-14-89	8-15-89			6	AR		40	57
				JOB NO.	10022		40	57
				6293	SPAN DETAILS		29676	



SECTION A-A (FOR CLOSED PARAPET RAIL)
1/2" = 1'-0"



SECTION C-C
3/4" = 1'-0"



SECTION D-D
3/4" = 1'-0"

GENERAL NOTES
ALL STRUCTURAL STEEL SHALL BE ASTM DESIGNATION A588 UNLESS OTHERWISE NOTED AND SHALL BE PAID FOR AT THE UNIT PRICE PER POUND BID FOR "STRUCTURAL STEEL IN BEAM SPANS (A588)". A588 STEEL SHALL NOT BE PAINTED. ALL EXPOSED SURFACES TO BE CLEANED IN ACCORDANCE WITH SP807-12. UNPAINTED WEATHERING STRUCTURAL STEEL. STRUCTURAL STEEL COMPLETELY EMBEDDED IN CONCRETE MAY BE ASTM A36.
BEAMS AND COVER PLATES ARE CONSIDERED MAIN LOAD CARRYING MEMBERS AND SHALL MEET THE LONGITUDINAL CHARTER V-NOTCH TEST SPECIFIED IN SECTION 807.05 OF THE STANDARD SPECIFICATIONS.
DESIGN SPECIFICATIONS: AASHTO 1983 WITH INTERIM SPECIFICATIONS.
LIVE LOADING: HS20
METHOD OF DESIGN: LOAD FACTOR
DEAD LOAD:
A. TO W-BEAM
850 PLF +
1.3 (WT./FT. OF W-BM)
668 PLF +
1.3 (WT./FT. OF W-BM)
B. TO COMPOSITE BEAM
OPEN PARAPETS
315 PLF +
329 PLF +
CLOSED PARAPETS
315 PLF +
329 PLF +
LIVE LOAD: TO EACH COMPOSITE BEAM
1.546 WHEELS + IMPACT
1.388 WHEELS + IMPACT
• INCLUDES 173 PLF FUTURE WEARING SURFACE
MATERIAL STRENGTH:
CLASS (SIAE) CONCRETE (N-9)
REINFORCING STEEL (A615 OR A617)
STRUCTURAL STEEL (A36)
STRUCTURAL STEEL (A588)
F'C = 3500 P.S.I.
F_Y = 60,000 P.S.I.
F_Y = 36,000 P.S.I.
F_Y = 50,000 P.S.I.
FOR ADDITIONAL DETAILS, SEE STD. DWG. NO. 14990H.

Revised - Changed S601 as shown. 7-14-89 LDF

DETAILS OF STANDARD
35'-90' COMPOSITE W-BEAM SPANS
CONCRETE PARAPET RAIL
36'-0" CL. RDWY. 0.02'/' PEAKED CROWN
ROUTE SEC.
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
DRAWN BY: LDF DATE: 2-22-88
CHECKED BY: JAS DATE: 2-22-88 SCALE: As Shown
DESIGNED BY: CSL DATE: 3-4-87
BRIDGE NO. 6293 DRAWING NO. 29676