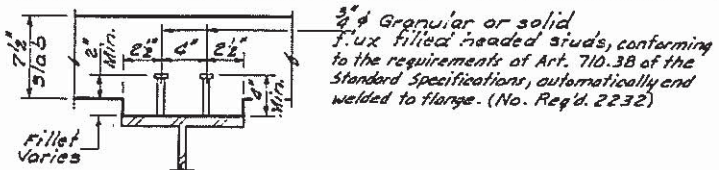


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**TOP OF FLANGE ELEVATION

Loc. Brgs.	Brig. H. Abut.	Brig. Pier #1	Splice #1	Brig. Pier #2	Splice #2	Brig. E. Abut.
#1 & #2	593.86	593.80	593.86	594.26	594.33	594.60
#3 & #4	593.56	593.70	593.97	594.56	594.44	594.70
#5 & #6	593.65	593.99	594.06	594.46	594.53	594.79

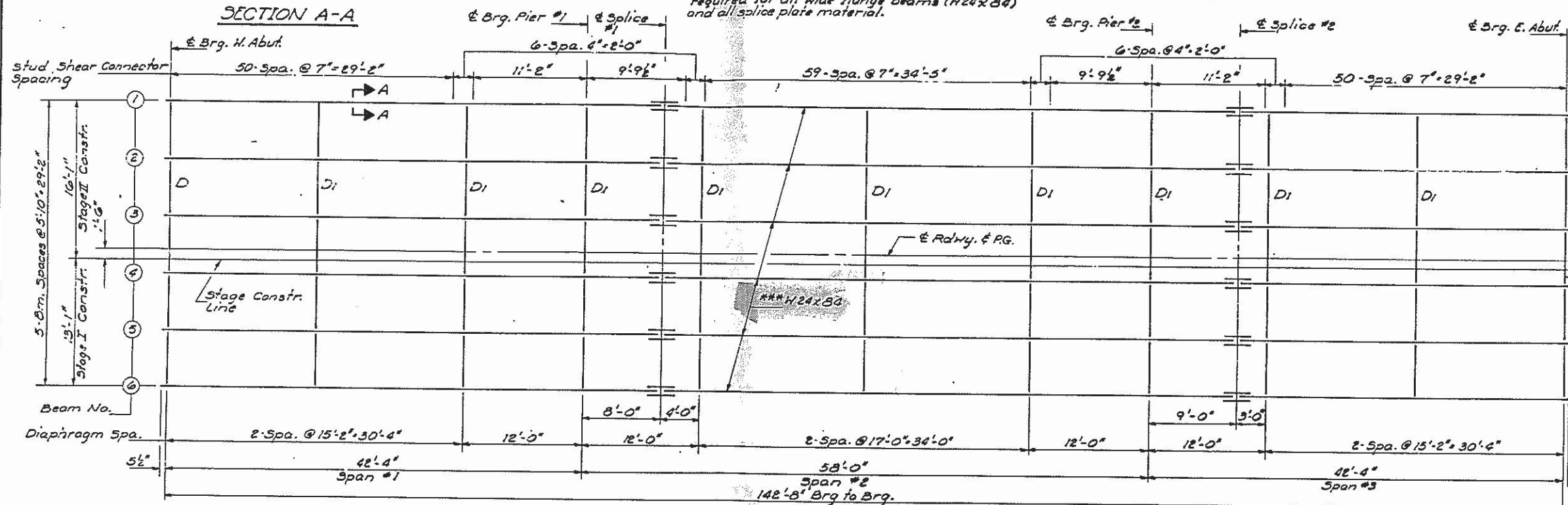
DATE	10/88	DESIGNED BY	SCHUYLER	TOTAL SHEETS	26	SHEET NO.	19
------	-------	-------------	----------	--------------	----	-----------	----



3/4" Granular or solid flux filled headed studs, conforming to the requirements of Art. 710.3B of the Standard Specifications, automatically end welded to flange. (No. Req'd. 2232)

Note: Notch Toughness Requirements shall be required for all wide flange beams (H24x84) and all splice plate material.

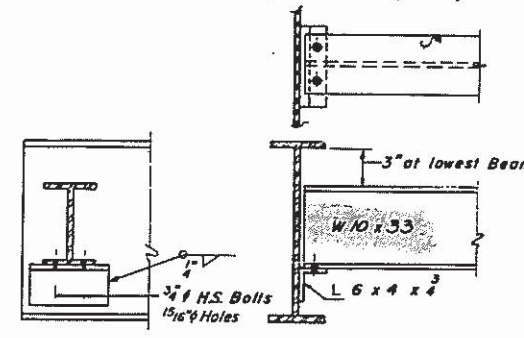
** For fabrication only, does not include dead load deflections.



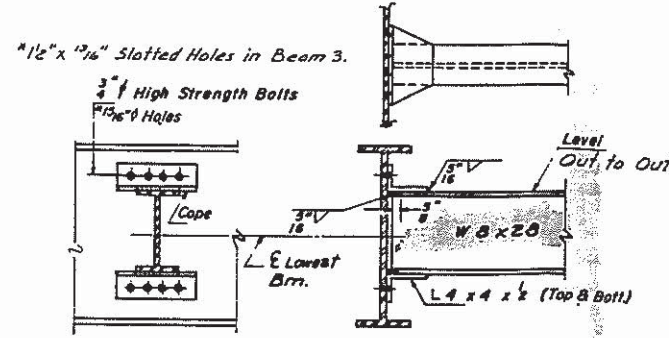
The bolts for the slotted holes shall only be finger-tightened prior to the deck slab pouring and then be fully-tightened after the completion of the pouring.

***H24x84 (AASHTO M-223, Grade 50) for all beams.

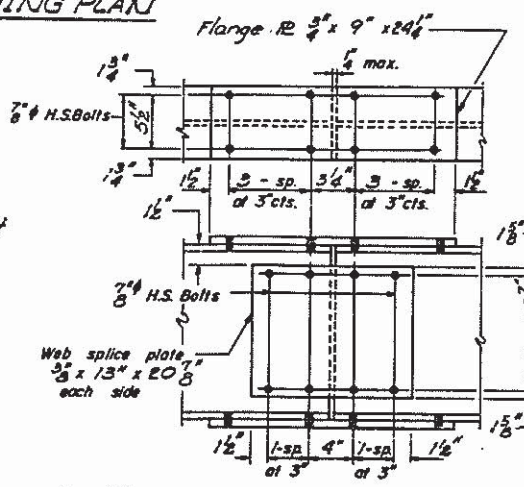
FRAMING PLAN



DIAPHRAGM D
(10 Required)



DIAPHRAGM D1
(45 Required)



SPLICE #1 & #2
(AASHTO M-223, Grade 50)

INTERIOR BEAM MOMENT TABLE

	4 Span #1 6.5 Span #2	Piers #1 & #2	0.5 Span #2
I_s (in ⁴)	2570	2370	2370
I_c (in ⁴)	72.54		72.54
I_o (in ⁴)	196	196	196
I_{sc} (in ⁴)	308		308
e (ft)	0.668	0.668	0.668
M_e (k)	73.7	174.9	103.9
S_e (in ³)	0.287	0.287	0.287
M_{se} (k)	39.3	56.1	64.6
M_e (k)	217.8	133.5	302.5
M_{imp} (k)	65.4	38.2	82.6
$S(M_e+I)$ (k)	472.0	236.2	641.8
M_a (k)	760.5	672.4	1036.0
M_u (k)	1723.2		1723.2
f_s non-composite (ksi)	4.51	14.14	6.48
f_s composite (ksi)	1.53		2.51
f_s (ksi)	18.39	17.52	23.00
f_s (overload) (ksi)	24.43	31.66	33.99
f_s (total) (ksi)	31.75	41.16	44.18
V_R (k)	40.3		39.5

*INTERIOR BEAM REACTION TABLE

	E. & W. Abut.	Piers #1 & #2
R_E (k)	14.7	33.5
R_P (k)	28.6	35.3
R_{imp} (k)	8.6	10.6
R_{TOTAL} (k)	31.9	99.2

I_s and S_s are the moment of inertia and section modulus of the steel section used in computing f_s (Total & Overload).
 I_c and S_c are the moment of inertia and section modulus of the composite section used in computing f_s (Total & Overload).
 V_R is the maximum Live Load + Impact shear range in span.

M_a (Applied Moment) = $1.3LM_e + M_{se} + \frac{1}{2}(M_e + I)$.
 M_u is the Full Plastic Moment Capacity for Compact, braced section.
 f_s (Overload) is the sum of the stresses due to $M_e + M_{se} + \frac{1}{2}(M_e + I)$.
 f_s (Total) is the sum of the stresses due to $1.3LM_e + M_{se} + \frac{1}{2}(M_e + I)$.
* Service Load values.

DESIGNED: [Signature]
CHECKED: [Signature]
DRAWN: J. SCHNYLER
CHECKED: DKM
DATE: June 6, 1986

I-2-D 8-30-80
AS REVISED: 7-20-88 R.E.A.

STRUCTURAL STEEL
F.A. RT. 713 SEC. 119B
SCHUYLER COUNTY
STA. 143+00.00