* TOP OF WEB ELEVATIONS		
Beam Number	℄ Brg. S. Abut.	℄ Brg. N. Abut.
1	645.83	646.07
2	646.00	646.20
3	646.16	646.32
4	646.32	646.43
5	646.47	646.54
6	646.62	646.64
7	646.75	646.73
8	646.88	646.81
9	646.88	646.81
10	646.78	646.62
11	646.65	646.46
12	646.53	646.29
13	646.39	646.11
14	646.25	645.92
15	646.10	645.73
16	645.95	645.53

* For Fabrication Only

INTERIOR GIRDER REACTION TABLE		
		Abutment
R_{DC1}	(k)	26.08
R_{DC2}	(k)	10.10
R_{DW}	(k)	8.60
R_{L+IM}	(k)	103.15
R_{Total}	(k)	147.92

INTERIOR GIRDER MOMENT TABLE		
		0.5 Sp.
I_s	(in^4)	7,246
$I_c(n)$	(in^4)	25,684
$I_c(3n)$	(in^4)	16,956
S_s	(in^3)	714
$S_c(n)$	(in^3)	1,064
$S_c(3n)$	(in^3)	965
DC1	(k/')	0.775
M_{DC1}	('k)	404
DC2	(k/')	0.338
M_{DC2}	('k)	158
DW	(k/')	0.288
M_{DW}	('k)	134
M_{L+IM}	('k)	721
M_u (Strength I)	('k)	2,165
$\phi_f M_n$	('k)	4,293
f_s DC1	(ksi)	6.78
f_s DC2	(ksi)	1.96
f_s DW	(ksi)	1.67
f_s (L+IM)	(ksi)	8.13
f_s (Service II)	(ksi)	20.98
$0.95R_hF_{yf}$	(ksi)	47.5
f_s (Total)(Strength I)	(ksi)	27.7
$\phi_f F_n$	(ksi)	-
V_f	(k)	42.98

I_s, S_s: Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads ($in.^4$ and $in.^3$).

$I_c(n)$, $S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) due to short-term composite live loads ($in.^4$ and $in.^3$).

$I_c(3n)$, $S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) due to long-term composite (superimposed) dead loads ($in.^4$ and $in.^3$).

DC1: Un-factored non-composite dead load (kips/ft.).

M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).

DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).

M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).

DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).

M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).

M_{L+IM}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

M_u (Strength I): Factored design moment (kip-ft.).
$1.25\ (M_{DC1} + M_{DC2}) + 1.5\ M_{DW} + 1.75\ M_{L+IM}$

$\phi_f M_n$: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft).

f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
M_{DC1} / S_s

f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
$M_{DC2} / S_c(3n)$.

f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
$M_{DW} / S_c(3n)$.

f_s (L+IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live plus impact loads as calculated below (ksi).
$M_{L+IM} / S_c(n)$.

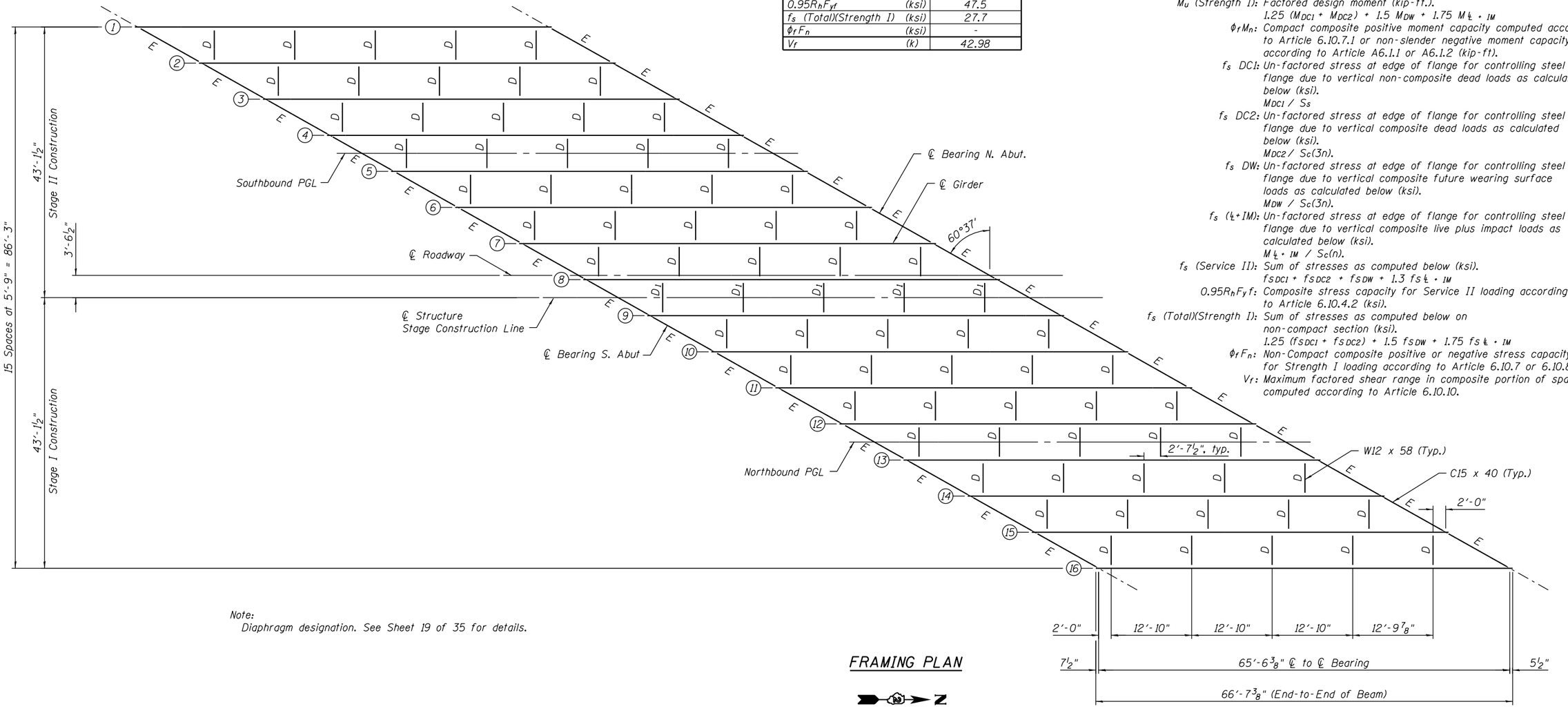
f_s (Service II): Sum of stresses as computed below (ksi).
$f_{sDC1} + f_{sDC2} + f_{sDW} + 1.3\ f_{sL+IM}$

$0.95R_hF_yf$: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).

f_s (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).
$1.25\ (f_{sDC1} + f_{sDC2}) + 1.5\ f_{sDW} + 1.75\ f_{sL+IM}$

$\phi_f F_n$: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).

V_f: Maximum factored shear range in composite portion of span computed according to Article 6.10.10.



Note:
Diaphragm designation. See Sheet 19 of 35 for details.

FRAMING PLAN

FILE NAME = s:\pl\6300-6399\6346\025\micros\Shts\Structural Plans\098B015-64C17-018-FRAM.dgn

STRAND ASSOCIATES®	1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200 IDFPR NO. 184-001273	USER NAME = brianf PLOT SCALE = PLOT DATE = 8/14/2014	DESIGNED - MJD CHECKED - AJS DRAWN - BJF CHECKED - RRD	REVISED REVISED REVISED REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STEEL FRAMING PLAN STRUCTURE NO. 098-0015 SHEET NO. 18 OF 35 SHEETS	F.A.P. RTE. 646 · SECTION 101 BR-3 · COUNTY WHITESIDE · TOTAL SHEETS 130 · SHEET NO. 77 CONTRACT NO. 64C17 ILLINOIS FED. AID PROJECT