

SPAN	GIRDER	L (ft in)	SOUTH END		NORTH END		WEB		FLANGE PLATES				b	c	BEARING STIFFENER	INTERMEDIATE STIFFENERS		SHEAR STUD SPACINGS				D.L. CAMBER				
			ELEV.	ANGLE α	ELEV.	ANGLE β	h	t	①	②	③	④				d	e	f	g	h	1/4 Δ	Δ/2	3/4 Δ			
1	GN-1	107'-10 5/8"	66.59	104°31'37"	63.53	90°17'03"	60	7/16	12 x 3/4	14 x 3/4	12 x 1 1/2	14 x 1 1/2	21'-6"	64'-10 5/8"	5 1/2 x 1/2	2'-6"	2 @ 5'	5'-1 1/2"	7'-5 1/2"	12 @ 16"	12 @ 19"	11 @ 20"	2'-3/8"	3'-1/8"	2'-3/8"	
1	GN-2	108'-11 1/8"	66.68	103°26'38"	63.27	89°12'03"	.	.	14 x 3/4	18 x 3/4	14 x 1 1/2	18 x 1 1/2	21'-6"	65'-11 1/8"	6 1/2 x 5/8	.	3 @ 5'	.	17'-9 1/2"	—	14 @ 18"	16 @ 24"	1'-1/4"	2'-9 1/2"	2'-9 1/2"	
2	GN-1	89'-4 5/16"	63.22	85°48'35"	60.35	88°34'33"	.	.	12 x 3/4	14 x 3/4	12 x 1 1/2	14 x 1 1/2	17'-6"	54'-4 5/16"	5 1/2 x 1/2	.	2 @ 5'	.	8'-3 1/2"	—	6 @ 20"	17 @ 24"	1'-8"	1'-8"	3'-4"	
3	GN-1	89'-3 3/4"	60.48	86°55'27"	57.61	89°37'37"	.	.	12 x 3/4	14 x 3/4	12 x 1 1/2	14 x 1 1/2	.	54'-3 3/4"	.	.	2 @ 5'	.	7'-8"	5 @ 16"	12 @ 19"	11 @ 20"	5'-8"	5'-8"	2'-4"	
3	GN-2	89'-2"	60.30	85°17'31"	57.32	87°59'41"	.	.	12 x 3/4	14 x 3/4	12 x 1 1/2	14 x 1 1/2	.	54'-2"	.	.	2 @ 5'	.	7"	5 @ 16"	12 @ 19"	11 @ 20"	1'-11/16"	5'-8"	9'-6"	
4	GN-1	89'-2 1/2"	57.55	86°43'49"	54.60	89°27'32"	.	.	12 x 3/4	14 x 3/4	12 x 1 1/2	14 x 1 1/2	.	54'-2 1/2"	.	.	1 @ 5'	.	11'-4"	—	12 @ 15"	23 @ 16"	1'-3/16"	1'-3/16"	5"	
4	GN-2	88'-11 1/4"	57.26	85°21'50"	54.38	88°05'33"	60	7/16	12 x 3/4	14 x 3/4	12 x 1 1/2	14 x 1 1/2	17'-6"	53'-11 1/4"	5 1/2 x 1/2	2'-6"	4 @ 5'	5'-1 1/2"	9'-8"	—	12 @ 13"	22 @ 16"	5'-1/16"	5'-1/16"	1'-4"	
5	GN-1	89'-1 1/2"	54.85	86°05'18"	52.17	88°45'42"	60	7/16	12 x 3/4	14 x 3/4	12 x 1 1/2	14 x 1 1/2	17'-6"	54'-1 1/2"	5 1/2 x 1/2	2'-6"	2 @ 5'	5'-1 1/2"	6'-3"	5 @ 16"	12 @ 19"	11 @ 20"	1'-3/16"	1'-3/16"	1'-3/16"	
5	GN-2	88°-10 1/2"	54.60	85°48'11"	51.90	88°28'35"	.	.	.	.	.	.	.	53'-10 1/2"	.	.	.	.	5'-8"	5 @ 16"	12 @ 19"	.	1'-3/16"	1'-3/16"	7'-8"
5	GN-3	88°-7"	54.35	85°32'33"	51.69	88°12'57"	.	.	.	.	.	.	.	53'-7"	.	.	.	.	16'-2"	3 @ 16"	13 @ 19"	.	5'-8"	1'-11/16"	3'-4"
6	GN-1	89°-1 1/2"	52.12	84°47'52"	49.35	87°26'24"	.	.	.	.	.	.	.	54'-1 1/2"	.	.	.	.	6'-6"	5 @ 16"	12 @ 19"	.	1'-2"	3'-4"	1'-2"
6	GN-2	88°-9 1/2"	51.85	85°04'17"	49.10	87°47'49"	.	.	.	.	.	.	.	53'-9 1/2"	.	.	.	.	7'-1 1/2"	6 @ 16"	11 @ 19"	.	9'-6"	3'-4"	9'-16"
6	GN-3	88°-6"	51.65	85°30'51"	49.00	88°04'23"	60	7/16	12 x 3/4	14 x 3/4	12 x 1 1/2	14 x 1 1/2	17'-6"	53'-6"	5 1/2 x 1/2	2'-6"	2 @ 5'	5'-5 1/2"	6'	6 @ 16"	11 @ 19"	11 @ 20"	5'-8"	7'-8"	1'-11/16"	
7	GN-1	88°-8 1/2"	49.17	84°14'04"	46.12	88°53'37"	60	7/16	12 x 3/4	14 x 3/4	12 x 1 1/2	14 x 1 1/2	17'-6"	53'-8 1/2"	5 1/2 x 1/2	2'-6"	4 @ 5'	5'-1 1/2"	11'-8"	—	13 @ 15"	22 @ 16"	1'-4"	2'-4"	2'-3/8"	
7	GN-2	88°-2 1/2"	48.95	85°56'33"	45.93	88°38'26"	.	.	12 x 3/4	14 x 3/4	12 x 1 1/2	14 x 1 1/2	17'-6"	53'-2 1/2"	5 1/2 x 1/2	2'-6"	4 @ 5'	5'-1 1/2"	8'	—	13 @ 15"	22 @ 16"	1'-4"	2'-4"	2'-3/8"	
8	GN-1	88°-2 1/4"	45.97	84°38'16"	42.62	87°17'37"	60	7/16	12 x 3/4	14 x 3/4	12 x 1 1/2	14 x 1 1/2	17'-6"	53'-2 1/4"	5 1/2 x 1/2	2'-6"	2 @ 5'	5'-1 1/2"	5'-5 1/2"	6 @ 16"	12 @ 19"	10 @ 20"	1'-2"	1'-2"	5'-16"	
C1	G1-C	88°-2"	65.33	100°12'45"	61.88	105°33'27"	60	7/16	12 x 3/4	14 x 3/4	12 x 1	14 x 1 1/2	17'-6"	53'-2"	5 1/2 x 1/2	—	—	—	5"	—	1 @ 20"	21 @ 24"	0	0	0	
C2	G1-C	99°-3"	61.72	98°22'59"	58.27	98°35'12"	.	.	14 x 3/4	18 x 3/4	14 x 1 1/2	18 x 1 1/2	19'-6"	60'-3"	6 1/2 x 5/8	—	—	—	19'-2"	—	—	24 @ 24"	0	0	0	
C3	G1-C	92°-3 1/2"	58.31	90°11'29"	55.57	90°15'20"	.	.	12 x 3/4	14 x 3/4	12 x 1 1/2	14 x 1 1/2	19'-0"	54'-3 1/2"	5 1/2 x 1/2	2'-6"	2 @ 5'	5'-2 1/2"	9'-8"	6 @ 16"	12 @ 19"	11 @ 20"	0	0	0	
C4	G1-C	92°-5 1/2"	55.53	89°53'45"	53.35	89°53'15"	.	.	12 x 3/4	14 x 3/4	12 x 1 1/2	14 x 1 1/2	19'-0"	54'-5 1/2"	5 1/2 x 1/2	2'-6"	2 @ 5'	5'-1 1/2"	10'-8"	6 @ 16"	12 @ 19"	11 @ 20"	5'-8"	15'-16"	5'-8"	
C5	G1-C	98°-5 1/2"	53.32	90°00'17"	51.10	89°58'46"	60	7/16	14 x 3/4	16 x 3/4	14 x 1 1/2	16 x 1 1/2	19'-6"	59'-5 1/2"	5 1/2 x 1/2	2'-6"	2 @ 5'	5'-5 1/2"	7'-1 1/2"	7 @ 16"	11 @ 21"	10 @ 24"	15'-16"	19'-16"	1"	
C5	G2-C	100°-7 1/2"	54.69	101°51'45"	51.86	102°01'57"	60	7/16	14 x 3/4	18 x 3/4	14 x 1 1/2	18 x 1 1/2	20'-0"	60'-7 1/2"	6 1/2 x 5/8	2'-6"	3 @ 5'	5'-5 1/2"	9'-16"	—	18 @ 14"	18 @ 19"	2'-3/8"	3'-1/4"	2'-3/8"	
C6	G1-C	87°-2 1/2"	51.92	87°52'33"	49.90	87°56'55"	.	.	12 x 3/4	14 x 3/4	12 x 1	14 x 1 1/2	17'-6"	52'-2 1/2"	5 1/2 x 1/2	—	—	—	19'-5 1/2"	—	—	21 @ 24"	19'-16"	17'-6"	7'-8"	
C6	G2-C	87°-1 1/2"	51.07	89°56'58"	49.11	90°01'21"	60	7/16	12 x 3/4	14 x 3/4	12 x 1 1/2	14 x 1 1/2	17'-6"	52'-1 1/2"	5 1/2 x 1/2	2'-6"	2 @ 5'	5'-1 1/2"	10'-11/16"	4 @ 16"	12 @ 19"	11 @ 20"	5'-8"	13'-16"	3'-4"	
C7	G2-C	45°-0 1/2"	49.75	89°59'49"	—	—	40	7/16	—	—	12 x 3/4	12 x 3/4	—	45'-0 1/2"	5 1/2 x 1/2	—	—	—	For Details, see Smt. E31	—	—	—	0	1'-4"	0	
D6	G1-D	82°-7 1/2"	51.85	99°31'54"	48.65	99°17'04"	60	7/16	12 x 3/4	14 x 3/4	12 x 1	14 x 1 1/2	16'-6"	49'-7 1/2"	5 1/2 x 1/2	—	—	—	15'-1 1/2"	—	—	20 @ 24"	11'-16"	9'-16"	4"	
D6	G2-D	83°-2 1/2"	51.19	101°07'40"	47.76	100°52'50"	12 x 1 1/2	.	.	50'-2 1/2"	.	.	2'-6"	2 @ 5'	5'-1 1/2"	6'-4"	4 @ 16"	11 @ 19"	11 @ 20"	9'-16"	11'-16"	5'-8"
D7	G1-D	77°-3 1/2"	48.60	96°03'40"	45.85	92°20'05"	12 x 1	.	.	44'-3 1/2"	.	.	—	—	—	7'-9 1/2"	—	—	19 @ 24"	9'-16"	13'-16"	3'-8"
D7	G2-D	82°-9 1/2"	47.93	97°11'48"	44.90	97°13'04"	49'-9 1/2"	.	.	—	—	—	16'-11/16"	—	—	20 @ 24"	1'-6"	7'-16"	3'-16"
D7	G3-D	83°-1 1/2"	47.71	98°53'12"	44.77	98°54'27"	50'-7 1/2"	.	.	—	—	—	18'-11/16"	—	—	20 @ 24"	1'-4"	1'-5/8"	15'-16"
D8	G1-D	87°-8 5/8"	45.79	88°09'27"	42.52	90°48'48"	60	7/16	12 x 3/4	14 x 3/4	12 x 1	14 x 1 1/2	16'-6"	54'-8 5/8"	5 1/2 x 1/2	—	—	—	22'-5 1/2"	—	—	21 @ 24"	1'-2"	9'-16"	0	
D10	G1-D	114°-5 1/2"	38.36	86°18'12"	33.54	88°22'16"	54	7/16	16 x 3/4	16 x 3/4	16 x 2 1/2	16 x 2 1/2	23'-0"	68'-5 1/2"	7 1/2 x 3/4	—	—	—	17'-4"	6 @ 19"	7 @ 21"	17 @ 24"	1'-5 1/2"	3'-3/8"	2'-4"	