

11/10/2008 4:33:55 PM

① GIRDER DIMENSIONS

Girder No.	Span 1	Span 2	Span 3	Length	Overall Length	Radius	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11
7	194'-6 1/2"	219'-8 1/2"	154'-2 3/4"	568'-5 3/4"	570'-2 3/4"	1617'-10"	134'-10"	113'-0"	130'-0"	76'-0"	116'-4 3/4"	134'-0"	60'-6 1/2"	52'-5 1/2"	37'-3"	38'-9"	115'-5 3/4"
8	194'-6 3/8"	219'-7 7/8"	154'-1 3/4"	568'-3 7/8"	570'-0 7/8"	1623'-8"	134'-10"	113'-0"	130'-0"	76'-0"	116'-2 7/8"	134'-0"	60'-6 3/8"	52'-5 5/8"	37'-2 1/4"	38'-9 3/4"	115'-3 7/8"
9	194'-6 1/4"	219'-7 1/4"	154'-0 3/4"	568'-2 1/4"	569'-11 1/8"	1629'-6"	134'-10"	113'-0"	130'-0"	76'-0"	116'-1 1/8"	134'-0"	60'-6 1/4"	52'-5 3/4"	37'-1 1/2"	38'-10 1/2"	115'-2 1/8"
10	194'-6 1/8"	219'-6 1/8"	153'-11 3/4"	568'-0 3/8"	569'-9 3/8"	1635'-4"	134'-10"	113'-0"	130'-0"	76'-0"	115'-11 3/8"	134'-0"	60'-6 1/8"	52'-5 7/8"	37'-0 5/8"	38'-11 3/8"	115'-0 3/8"
11	194'-6"	219'-5 7/8"	153'-10 3/4"	567'-10 5/8"	569'-7 5/8"	1641'-2"	134'-10"	113'-0"	130'-0"	76'-0"	115'-9 5/8"	134'-0"	60'-6"	52'-6"	36'-11 7/8"	39'-0 7/8"	114'-10 5/8"
12	194'-5 7/8"	219'-5 1/4"	153'-9 7/8"	567'-9"	569'-6"	1647'-0"	134'-10"	113'-0"	130'-0"	76'-0"	115'-8"	134'-0"	60'-5 7/8"	52'-6 1/8"	36'-11 1/8"	39'-0 7/8"	114'-9"

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
* 60-15HB-3		MADISON	93	41
SHEET NO. 19				
47 SHEETS				
Contract No. 76706				

① CROSS FRAME SPACING

Girder No.	a	b	c	d	e	f	g	h1	h2	i	j	k	l	m	n	o	p	q1	q2	r	s	t	u	v	w	x1	x2	y	z
7	16'-6 1/2"	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"	9'-5 1/2"	8'-6 1/2"	15'-0"	15'-0"	11'-0"	11'-0"	15'-9 1/2"	—	12'-5 1/2"	12'-5 1/2"	11'-9"	6'-6"	18'-3"	18'-3"	18'-3"	18'-3"	18'-3"	18'-3"	14'-0"	4'-3"	11'-0"	11'-0"
8	16'-11 7/8"	18'-0 3/4"	18'-0 3/4"	18'-0 3/4"	18'-0 3/4"	18'-0 3/4"	18'-0 3/4"	8'-7 1/2"	9'-5 1/4"	15'-0 5/8"	15'-0 5/8"	11'-0 1/2"	9'-11 3/8"	16'-11 1/4"	—	12'-6"	12'-6"	10'-6 1/4"	7'-9 5/8"	18'-3 3/4"	18'-3 3/4"	18'-3 3/4"	18'-3 3/4"	18'-3 3/4"	18'-3 3/4"	12'-3 5/8"	6'-0 1/8"	11'-0 1/2"	11'-0 1/2"
9	17'-5 1/8"	18'-1 1/2"	18'-1 1/2"	18'-1 1/2"	18'-1 1/2"	18'-1 1/2"	18'-1 1/2"	7'-9 1/2"	10'-4"	15'-1 1/4"	15'-1 1/4"	11'-1"	8'-10 5/8"	7'-0 1/8"	11'-1"	12'-6 5/8"	12'-6 5/8"	9'-3 1/2"	9'-1 1/8"	18'-4 5/8"	18'-4 5/8"	18'-4 5/8"	18'-4 5/8"	18'-4 5/8"	18'-4 5/8"	10'-7 3/8"	7'-9 1/4"	11'-1"	11'-1"
10	17'-10 3/8"	18'-2 3/8"	18'-2 3/8"	18'-2 3/8"	18'-2 3/8"	18'-2 3/8"	18'-2 3/8"	6'-11 1/2"	11'-2 3/4"	15'-2"	15'-2"	11'-1 3/8"	7'-10"	8'-1 1/2"	11'-1 3/8"	12'-7 1/8"	12'-7 1/8"	8'-0 5/8"	10'-4 5/8"	18'-5 3/8"	18'-5 3/8"	18'-5 3/8"	18'-5 3/8"	18'-5 3/8"	18'-5 3/8"	8'-11 1/8"	9'-6 1/4"	11'-1 3/8"	16'-5"
11	18'-3 3/4"	18'-3 1/8"	18'-3 1/8"	18'-3 1/8"	18'-3 1/8"	18'-3 1/8"	18'-3 1/8"	6'-1 5/8"	12'-1 1/2"	15'-2 5/8"	15'-2 5/8"	17'-11 1/4"	—	9'-2 7/8"	11'-1 7/8"	12'-7 5/8"	12'-7 5/8"	6'-9 7/8"	11'-8 1/4"	18'-6 1/8"	18'-6 1/8"	18'-6 1/8"	18'-6 1/8"	18'-6 1/8"	18'-6 1/8"	7'-2 3/4"	11'-3 3/8"	11'-1 7/8"	14'-6 5/8"
12	18'-9"	18'-3 7/8"	18'-3 7/8"	18'-3 7/8"	18'-3 7/8"	18'-3 7/8"	18'-3 7/8"	5'-3 5/8"	13'-0 1/4"	15'-3 1/4"	15'-3 1/4"	16'-11 1/8"	—	10'-4 1/4"	11'-2 3/8"	12'-8 1/4"	12'-8 1/4"	5'-7 7/8"	12'-11 3/4"	18'-7"	18'-7"	18'-7"	18'-7"	18'-7"	18'-7"	5'-6 1/2"	13'-0 3/8"	11'-2 3/8"	12'-8 3/8"

① CROSS FRAME SPACING (CONT.)

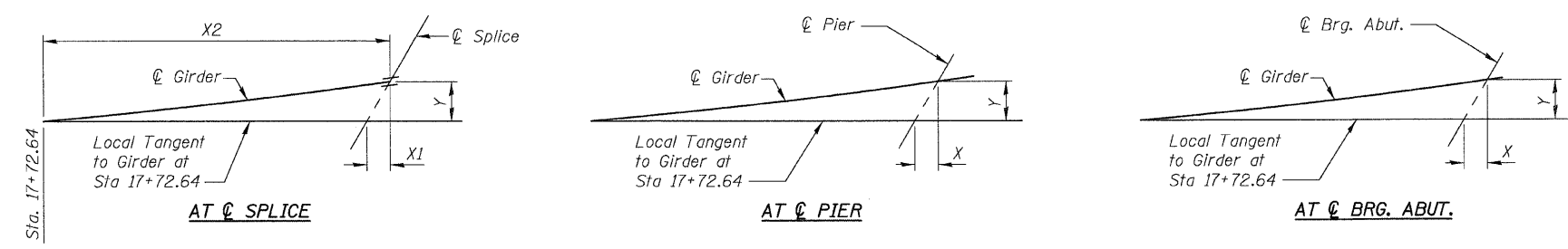
Girder No.	aa	ab	ac	ad	ae1	ae2	af	ag	ah	ai	aj	ak
7	11'-0"	11'-9"	—	12'-6"	14'-6"	4'-6"	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"	20'-11 3/4"
8	9'-1 1/8"	13'-8 3/4"	—	12'-6 1/2"	12'-6 3/8"	6'-6 3/8"	18'-0 3/4"	18'-0 3/4"	18'-0 3/4"	18'-0 3/4"	18'-0 3/4"	18'-5 5/8"
9	7'-2 3/8"	15'-8 5/8"	—	12'-7 1/8"	10'-6 7/8"	8'-6 7/8"	18'-1 1/2"	18'-1 1/2"	18'-1 1/2"	18'-1 1/2"	18'-1 1/2"	15'-11 5/8"
10	—	6'-7"	11'-1 3/8"	12'-7 5/8"	8'-7 1/4"	10'-7 1/4"	18'-2 3/8"	18'-2 3/8"	18'-2 3/8"	18'-2 3/8"	18'-2 3/8"	13'-5 5/8"
11	—	8'-6 1/4"	11'-1 7/8"	12'-8 1/8"	6'-7 3/4"	12'-7 5/8"	18'-3 1/8"	18'-3 1/8"	18'-3 1/8"	18'-3 1/8"	18'-3 1/8"	10'-11 1/2"
12	—	10'-5 5/8"	11'-2 3/8"	12'-8 3/4"	4'-8 1/4"	14'-7 7/8"	18'-3 7/8"	18'-3 7/8"	18'-3 7/8"	18'-3 7/8"	18'-3 7/8"	8'-5 5/8"

① STUD SHEAR CONNECTOR SPACING

Girder No.	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14
7	112 sps. at 1'-2"=130'-8"	3'-4"	3'-0"	3 sps. at 1'-1"=3'-3"	7 sps. at 2'-4"	51'-11 1/2"	55'-9 7/8"	7 sps. at 2'-4"	102 sps. at 1'-2"=119'-0"	7 sps. at 2'-4"	40'-2 5/8"	43'-4 3/4"	7 sps. at 2'-4"	93 sps. at 1'-2"=108'-6"
8	112 sps. at 1'-2"=130'-8"	3'-4"	3'-0"	3 sps. at 1'-1"=3'-3"	7 sps. at 2'-4"	51'-11 3/8"	56'-11 1/2"	7 sps. at 2'-4"	101 sps. at 1'-2"=117'-10"	7 sps. at 2'-4"	40'-2 3/8"	43'-3 3/4"	7 sps. at 2'-4"	93 sps. at 1'-2"=108'-6"
9	112 sps. at 1'-2"=130'-8"	3'-4"	3'-0"	3 sps. at 1'-1"=3'-3"	7 sps. at 2'-4"	51'-11 1/4"	58'-0 1/2"	7 sps. at 2'-4"	100 sps. at 1'-2"=116'-8"	7 sps. at 2'-4"	40'-2 3/4"	43'-2 3/4"	7 sps. at 2'-4"	93 sps. at 1'-2"=108'-6"
10	112 sps. at 1'-2"=130'-8"	3'-4"	3'-0"	3 sps. at 1'-1"=3'-3"	7 sps. at 2'-4"	51'-11 1/8"	58'-4 1/2"	7 sps. at 2'-4"	100 sps. at 1'-2"=116'-8"	7 sps. at 2'-4"	39'-10"	43'-1 3/4"	7 sps. at 2'-4"	93 sps. at 1'-2"=108'-6"
11	112 sps. at 1'-2"=130'-8"	3'-4"	3'-2"	3 sps. at 12"=3'-0"	7 sps. at 2'-4"	52'-0"	59'-5 5/8"	7 sps. at 2'-4"	99 sps. at 1'-2"=115'-6"	7 sps. at 2'-4"	39'-10 1/4"	43'-0 3/4"	7 sps. at 2'-4"	93 sps. at 1'-2"=108'-6"
12	112 sps. at 1'-2"=130'-8"	3'-4"	3'-2"	3 sps. at 12"=3'-0"	7 sps. at 2'-4"	51'-11 7/8"	60'-5 1/4"	7 sps. at 2'-4"	98 sps. at 1'-2"=114'-4"	7 sps. at 2'-4"	40'-0"	42'-11 7/8"	7 sps. at 2'-4"	93 sps. at 1'-2"=108'-6"

① Measured along girder centerline.
Notes: See sheet #18 of 47 for Framing Plan and Girder Elevation.

DESIGNED	ADL
CHECKED	WLW
DRAWN	BGJ
CHECKED	WLW



"X" and "Y" OFFSET DIMENSIONS

"X" and "Y" OFFSET DIMENSIONS

Girder No.	@ Brg. S. Abut.		@ Splice #1			@ Pier #1		@ Splice #2			@ Splice #3			@ Pier #2		@ Splice #4			@ Brg. N. Abut.	
	"X"	"Y"	"X1"	"X2"	"Y"	"X"	"Y"	"X1"	"X2"	"Y"	"X1"	"X2"	"Y"	"X"	"Y"	"X1"	"X2"	"Y"	"X"	"Y"
7	1'-8 3/8"	9'-7 5/8"	1 1/8"	42'-8 1/4"	6 3/4"	1 1/4"	1 1/8"	3 1/8"	70'-3 3/8"	1'-6 3/8"	2'-1"	199'-9 1/2"	12'-4 5/8"	3'-0 7/8"	17'-4 7/8"	3'-10 1/4"	274'-11 1/2"	23'-6 1/2"	8'-3 7/8"	47'-2 1/2"
8	1'-8 1/2"	9'-8 5/8"	1 1/4"	43'-8 1/2"	7"	1 1/8"	1"	3 1/8"	69'-3 3/8"	1'-5 3/4"	2'-0 5/8"	198'-9 3/8"	12'-2 5/8"	3'-0 3/8"	17'-2 1/4"	3'-9 3/4"	273'-11 5/8"	23'-3 3/8"	8'-3"	46'-9 1/8"
9	1'-8 3/4"	9'-9 1/2"	1 1/4"	44'-8 3/4"	7 3/8"	1 1/8"	7/8"	3"	68'-3"	1'-5 1/2"	2'-0 1/4"	197'-9 1/4"	12'-0 1/2"	2'-11 7/8"	16'-11 5/8"	3'-9 1/4"	272'-11 5/8"	23'-0 3/8"	8'-2"	46'-3 3/4"
10	1'-8 7/8"	9'-10 3/8"	1 3/8"	45'-9"	7 5/8"	1 1/8"	3/4"	2 7/8"	67'-2 3/4"	1'-4 5/8"	2'-0"	196'-9 1/4"	11'-10 5/8"	2'-11 1/2"	16'-9 1/8"	3'-8 3/4"	271'-11 3/4"	22'-9 1/4"	8'-1 1/8"	45'-10 1/2"
11	1'-9"	9'-11 3/8"	1 3/8"	46'-9 1/8"	8"	1 1/8"	3/4"	2 3/4"	66'-2 1/2"	1'-4"	1'-11 5/8"	195'-9 1/8"	11'-8 5/8"	2'-11"	16'-6 1/2"	3'-8 1/4"	270'-11 3/4"	22'-6 1/4"	8'-0 1/8"	45'-5 3/8"
12	1'-9 1/4"	10'-0 1/4"	1 1/2"	47'-9 3/8"	8 3/8"	1 1/8"	5/8"	2 5/8"	65'-2 1/4"	1'-3 1/2"	1'-11 1/4"	194'-9"	11'-6 5/8"	2'-10 1/2"	16'-4"	3'-7 3/4"	269'-11 7/8"	22'-3 3/8"	7'-11 1/4"	45'-0 1/4"

STRUCTURAL STEEL DETAILS
RAMP B OVER FAP RTE 310
SECTION 60-15HB-3
MADISON COUNTY
STATION 17+72.64 (RAMP B)
SN 060-0332