

PAINT THICKNESS REPORT
RICHMOND-SAN RAFAEL BRIDGE

AUGUST, 1999

Pier	N/S	Reading Location	t ₁	t ₂	t ₃	t ₄	t ₅	t ₆
73U	North	Diaphragm Web	23	23	24			
		Rivets on Diaphragm Flange	69	63	46	72		
		Rivets on Diaphragm/Chord Connection	42	68				
		Diaphragm Flange	35	30	48			
73U	South	Diaphragm Web	45	23	39			
		Rivets on Diaphragm Flange	78	61	52			
		Knee Brace	42	45				
		Rivets on Diaphragm/Knee Brace Connection	61	58	46			
72U	North	Diaphragm Web	45	51	41			
		Rivets on Diaphragm Flange	55	59	80	86		
		Diaphragm Flange	43	40	43			
		Knee Brace	24	24	23			
		Chord Flange (*Near Bearing)	47	122*	70			
72U	South	Diaphragm Flange	39	21	34			
		Rivets on Diaphragm Flange	58	45	61	66		
		Knee Brace	45	27				
		Rivets on Chord/Knee Brace Connection	49	45	74			
		Rivets on Knee Brace Outside Edge	77	74	68			
		Chord Flange (*Near Bearing)	45	131*	65			
		Rivets on Traveler Hangers	102	108	88			
		Rivets on Diaphragm/Knee Brace Web Connection	68	104	94	65		
76L	South	Rivets on Bottom Diaphragm Flange/Knee Brace Connection	86	129	113			
		Knee Brace	45	51	36			
		Rivets on Knee Brace Web/Chord Connection	67	71	81			
		Diaphragm Web	31	27	46			
76L	North	Rivets on Diaphragm Flange/Knee Brace Connection	82	138	84	82	89	
		Knee Brace Web	42	36	39			
		Diaphragm Bottom Flange	44	37	50			
		Rivets on Knee Brace Web/Chord Connection	71	92	64	73	46	43

Memorandum

To: Shawn Sun, CCMB

Date: 04/27/98

File: 04-043841

From: **DEPARTMENT OF TRANSPORTATION**
ENGINEERING SERVICE CENTER
DIVISION OF STRUCTURES
OFFICE OF STRUCTURE CONSTRUCTION

Subject: Paint Removal Locations

Please find enclosed 19 sheets of paint thickness readings for various representative spans along the Richmond-San Rafael Bridge. A copy was forwarded to Yader Bermudez and Alec Melkonians to be included with the reference material available to the Contractor and language put into the "Existing Highway Facilities" Section of the Specials.

If you have any questions, please call me at (510) 231-7181.



Robert S. Powell
Senior Bridge Engineer

CC: JEberle
SCastaldo
Jhemiup
Ybermudez
AMelkonians

289 & main span

Pier or Span Location	Member or Joint Location	Truss	Member Type	Measurement Location	Paint Thickness (mils)
Span 44-45	U1'	south	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	
Span 44-45	U1'	south	truss vertical	both east and west faces	
Span 44-45	U0'	north	truss vertical	both north and south exterior faces	
Span 44-45	U0'	north	upper floor beam	both sides of web near truss vertical connection	
Span 44-45	U0'	north	truss vertical	both east and west faces	
Span 44-45	U0'	south	truss vertical	both north and south exterior faces	
Span 44-45	U0'	south	upper floor beam	both sides of web near truss vertical connection	
Span 44-45	U0'	south	truss vertical	both east and west faces	
Span 45-46	L0	north	gusset plates	both north and south exterior faces	S - 28 N - 26
Span 45-46	L0	north	lower floor beam	both sides of web near truss vertical connection	E - 26 W - 30
Span 45-46	L0	north	truss vertical	both east and west faces	E - 18 W - 21
Span 45-46	L0	south	gusset plates	both north and south exterior faces	S - 24 N - 20
Span 45-46	L0	south	lower floor beam	both sides of web near truss vertical connection	E - 24 W - 30
Span 45-46	L0	south	truss vertical	both east and west faces	E - 62 W - 43
Span 45-46	L0 - L1	north	lower chord	both north and south interior faces @ L0	N - 30 S - 20
Span 45-46	L0 - L1	south	lower chord	both north and south interior faces @ L0	N - 18 S - 26
Span 45-46	L0 - L2	north	lower chord	top and bottom faces	T - 54 B - 22
Span 45-46	L0 - L2	south	lower chord	top and bottom faces	T - 40 B - 16
Span 45-46	L1	north	gusset plates	both north and south exterior faces	N - 26 S - 28
Span 45-46	L1	north	lower floor beam	both sides of web near truss vertical connection	E - 20 W - 18
Span 45-46	L1	north	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	T - 16 B - 24
Span 45-46	L1	north	truss vertical	both east and west faces	E - 28 W - 30
Span 45-46	L1	north	top and bottom gusset plates for lateral bracing	both top and bottom faces	T - 48 B - 20
Span 45-46	L1	south	gusset plates	both north and south exterior faces	N - 30 S - 14

289 & main span

Pier or Span Location	Member or Joint Location	Truss	Member Type	Measurement Location	Paint Thickness (mils)
Span 45-46	L1	south	lower floor beam	both sides of web near truss vertical connection	E - 14 W - 22
Span 45-46	L1	south	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	T - 18 B - 20
Span 45-46	L1	south	truss vertical	both east and west faces	E - 18 W - 22
Span 45-46	L1	south	top and bottom gusset plates for lateral bracing	both top and bottom faces	T - 40 B - 36
Span 45-46	L1 - B0	north	lower lateral bracing	both faces of top and bottom flanges	T-30 BT-29 TB-6 BB-28
Span 45-46	L1 - B0	south	lower lateral bracing	both faces of top and bottom flanges	T-26 BT-28 TB-40 BB-18
Span 45-46	B0		top and bottom gusset plates for lateral bracing	both top and bottom faces	30-T 40-B
Span 45-46	L1 - L1		lower floor beam	top and bottom side of top and bottom flange of lower floor beam at B1 connection	T-30 BT-18 TB-16 BB-14
Span 45-46	L2	north	gusset plates	both north and south exterior faces	N - 30 S - 20
Span 45-46	L2	north	lower floor beam	both sides of web near truss vertical connection	W - 30 E - 24
Span 45-46	L2	north	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	T - 26 B - 18
Span 45-46	L2	north	truss vertical	both east and west faces	E - 30 W - 26
Span 45-46	L2	north	lower floor beam	top and bottom side of top and bottom flange of lower floor beam	T-24 BT-20 TB-26 BB-20
Span 45-46	L2	south	gusset plates	both north and south exterior faces	S - 16 N - 22
Span 45-46	L2	south	lower floor beam	both sides of web near truss vertical connection	E - 26 W - 26
Span 45-46	L2	south	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	T - 28 B - 18
Span 45-46	L2	south	truss vertical	both east and west faces	E - 24 W - 19
Span 45-46	L2	south	lower floor beam	top and bottom side of top and bottom flange of lower floor beam	T-26 BT-18 TB-16 BB-26
Span 45-46	L3	north	gusset plates	both north and south exterior faces	S-28 N-20
Span 45-46	L3	north	lower floor beam	both sides of web near truss vertical connection	E-28 W-26
Span 45-46	L3	north	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	T-20 B-16
Span 45-46	L3	north	truss vertical	both east and west faces	E-21 W-24
Span 45-46	L3	north	top and bottom gusset plates for lateral bracing	both top and bottom faces	T-44 B-24
Span 45-46	L3	south	gusset plates	both north and south exterior faces	N-22 S-18

289 & main span

Pier or Span Location	Member or Joint Location	Truss	Member Type	Measurement Location	Paint Thickness (mils)
Span 45-46	L2'	north	lower floor beam	top and bottom side of top and bottom flange of lower floor beam	16-T 38-B 2-B 48-T
Span 45-46	L2'	south	gusset plates	both north and south exterior faces	26-S 14-N
Span 45-46	L2'	south	lower floor beam	both sides of web near truss vertical connection	W-22 E-16
Span 45-46	L2'	south	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	20-T 14-B
Span 45-46	L2'	south	truss vertical	both east and west faces	20-E 24-W
Span 45-46	L2'	south	lower floor beam	top and bottom side of top and bottom flange of lower floor beam	14-T 26-B
Span 45-46	L1'	north	gusset plates	both north and south exterior faces	22-S 24-N
Span 45-46	L1'	north	lower floor beam gusset plates	both top and bottom faces connected to lateral bracing	38-T 28-B
Span 45-46	L1'	north	lower floor beam	both sides of web near truss vertical connection	W-20 E-20
Span 45-46	L1'	north	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	22-T 36-B
Span 45-46	L1'	north	truss vertical	both east and west faces	28-E 24-W
Span 45-46	L1'	south	gusset plates	both north and south exterior faces	14-S 24-N
Span 45-46	L1'	south	lower floor beam gusset plates	both top and bottom faces connected to lateral bracing	18-T 30-B
Span 45-46	L1'	south	lower floor beam	both sides of web near truss vertical connection	W-22 E-16
Span 45-46	L1'	south	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	26-T 28-B
Span 45-46	L1'	south	truss vertical	both east and west faces	24-E 18-W
Span 45-46	L1' - L1'		lower floor beam	top and bottom side of top and bottom flange of lower floor beam at B1' connection	26-B 46-T
Span 45-46	L1' - L1'		lower floor beam	both sides of web at 6'-1 1/2" south of north truss	28
Span 45-46	L1' - L1'		lower floor beam	both sides of web at 6'-1 1/2" north of south truss	40
Span 45-46	L0'	north	gusset plates	both north and south exterior faces	30-S 24-N
Span 45-46	L0'	north	lower floor beam	both sides of web near truss vertical connection	36-S 22-N
Span 45-46	L0'	north	truss vertical	both east and west faces	12-E 24-W
Span 45-46	L0'	south	gusset plates	both north and south exterior faces	20-S 32-N
Span 45-46	L0'	south	lower floor beam	both sides of web near truss vertical connection	26-N 16-S

Pier or Span Location	Member or Joint Location	Truss	Member Type	Measurement Location	Paint Thickness (mils)
Span 48-49	LA12 - LA12		lower floor beam	top and bottom side of top and bottom flange of lower floor beam at BA12 connection	
Span 48-49	LA12 - LA12		lower floor beam	both sides of web at 6'-1 1/2" south of north truss	
Span 48-49	LA12 - LA12		lower floor beam	both sides of web at 6'-1 1/2" north of south truss	
Span 48-49	LA11	north	lower floor beam gusset plates	both top and bottom faces connected to lateral bracing	
Span 48-49	LA11	south	lower floor beam gusset plates	both top and bottom faces connected to lateral bracing	
Span 48-49	LA11 - LA11		lower floor beam	top and bottom side of top and bottom flange of lower floor beam at BA11 connection	
Span 48-49	LA11 - LA11		lower floor beam	both sides of web at 6'-1 1/2" south of north truss	
Span 48-49	LA11 - LA11		lower floor beam	both sides of web at 6'-1 1/2" north of south truss	
Span 48-49	adjacent to pier 49		lower deck stringers	web, top & bot faces of top flange of any three non-adjacent stringers @ 6' from center line of floor beam	
	adjacent to pier 49		lower floor beam	web of floor beam @ stringer level between stringers	
	adjacent to pier 49		lower deck curb	top of curb and face of guard rail @ 2' from center line of pier	26 ²⁴
Span 49-50	adjacent to pier 49		upper deck stringers	web, top & bot faces of top flange of any three non-adjacent stringers @ 6' from center line of floor beam	
	adjacent to pier 49		upper floor beam	web of floor beam @ stringer level between stringers	
	adjacent to pier 49		upper deck curb	top of curb and face of guard rail @ 2' from center line of pier	
Span 49-50	L0	north	gusset plates	both north and south exterior faces	
Span 49-50	L0	north	lower floor beam	both sides of web near truss vertical connection	
Span 49-50	L0	north	truss vertical	both east and west faces	
Span 49-50	L0	south	gusset plates	both north and south exterior faces	14-14
Span 49-50	L0	south	lower floor beam	both sides of web near truss vertical connection	
Span 49-50	L0	south	truss vertical	both east and west faces	8-6
Span 49-50	L0 - L0		lower floor beam	top and bottom side of top and bottom flange of lower floor beam at B0 connection	
Span 49-50	L0 - L0		lower floor beam	both sides of web at 6'-1 1/2" south of north truss	
Span 49-50	L0 - L0		lower floor beam	both sides of web at 6'-1 1/2" north of south truss	
Span 49-50	L0 - L1	north	lower chord	both north and south interior faces @ L0	

Pier or Span Location	Member or Joint Location	Truss	Member Type	Measurement Location	Paint Thickness (mils)
Span 49-50	L0 - L1	south	lower chord	both north and south interior faces @ L0	
Span 49-50	L0 - L2	north	lower chord	top and bottom faces	
Span 49-50	L0 - L2	south	lower chord	top and bottom faces	
Span 49-50	L0 - L1	north	lower chord	both north and south exterior faces	
Span 49-50	L0 - L1	south	lower chord	both north and south exterior faces	
Span 49-50	L1	north	gusset plates	both north and south exterior faces	
Span 49-50	L1	north	lower floor beam	both sides of web near truss vertical connection	
Span 49-50	L1	north	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	
Span 49-50	L1	north	truss vertical	both east and west faces	16 16
Span 49-50	L1	south	gusset plates	both north and south exterior faces	
Span 49-50	L1	south	lower floor beam	both sides of web near truss vertical connection	
Span 49-50	L1	south	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	
Span 49-50	L1	south	truss vertical	both east and west faces	
Span 49-50	L1 - L1		lower floor beam	top and bottom side of top and bottom flange of lower floor beam at B1 connection	
Span 49-50	L1 - L1		lower floor beam	both sides of web at 6'-1 1/2" south of north truss	
Span 49-50	L1 - L1		lower floor beam	both sides of web at 6'-1 1/2" north of south truss	
Span 49-50	L2	north	gusset plates	both north and south exterior faces	
Span 49-50	L2	north	lower floor beam	both sides of web near truss vertical connection	
Span 49-50	L2	north	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	
Span 49-50	L2	north	truss vertical	both east and west faces	
Span 49-50	L2	north	lower floor beam	top and bottom side of top and bottom flange of lower floor beam	
Span 49-50	L2	south	gusset plates	both north and south exterior faces	18 14
Span 49-50	L2	south	lower floor beam	both sides of web near truss vertical connection	
Span 49-50	L2	south	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	

Pier or Span Location	Member or Joint Location	Truss	Member Type	Measurement Location	Paint Thickness (mils)
Span 49-50	L2	south	truss vertical	both east and west faces	18-18
Span 49-50	L2	south	lower floor beam	top and bottom side of top and bottom flange of lower floor beam	
Span 49-50	L3	north	gusset plates	both north and south exterior faces	
Span 49-50	L3	north	lower floor beam	both sides of web near truss vertical connection	
Span 49-50	L3	north	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	
Span 49-50	L3	north	truss vertical	both east and west faces	
Span 49-50	L3	south	gusset plates	both north and south exterior faces	
Span 49-50	L3	south	lower floor beam	both sides of web near truss vertical connection	
Span 49-50	L3	south	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	
Span 49-50	L3	south	truss vertical	both east and west faces	16 16
Span 49-50	L3'	north	gusset plates	both north and south exterior faces	
Span 49-50	L3'	north	lower floor beam	both sides of web near truss vertical connection	
Span 49-50	L3'	north	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	
Span 49-50	L3'	north	truss vertical	both east and west faces	
Span 49-50	L3'	south	gusset plates	both north and south exterior faces	
Span 49-50	L3'	south	lower floor beam	both sides of web near truss vertical connection	
Span 49-50	L3'	south	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	
Span 49-50	L3'	south	truss vertical	both east and west faces	x 14 14
Span 49-50	L2'	north	gusset plates	both north and south exterior faces	
Span 49-50	L2'	north	lower floor beam	both sides of web near truss vertical connection	
Span 49-50	L2'	north	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	
Span 49-50	L2'	north	truss vertical	both east and west faces	
Span 49-50	L2'	north	lower floor beam	top and bottom side of top and bottom flange of lower floor beam	
Span 49-50	L2'	south	gusset plates	both north and south exterior faces	22 20

Pier or Span Location	Member or Joint Location	Truss	Member Type	Measurement Location	Paint Thickness (mils)
Span 49-50	L2'	south	lower floor beam	both sides of web near truss vertical connection	
Span 49-50	L2'	south	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	
Span 49-50	L2'	south	truss vertical	both east and west faces	14 18
Span 49-50	L2'	south	lower floor beam	top and bottom side of top and bottom flange of lower floor beam	
Span 49-50	L1'	north	gusset plates	both north and south exterior faces	
Span 49-50	L1'	north	lower floor beam	both sides of web near truss vertical connection	
Span 49-50	L1'	north	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	
Span 49-50	L1'	north	truss vertical	both east and west faces	
Span 49-50	L1'	north	top and bottom gusset plates for lateral bracing	both top and bottom faces	
Span 49-50	L1'	south	gusset plates	both north and south exterior faces	20 20
Span 49-50	L1'	south	lower floor beam	both sides of web near truss vertical connection	
Span 49-50	L1'	south	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	
Span 49-50	L1'	south	truss vertical	both east and west faces	12 16
Span 49-50	L1'	south	top and bottom gusset plates for lateral bracing	both top and bottom faces	
Span 49-50	L1' - B0'	north	lower lateral bracing	both faces of top and bottom flanges	
Span 49-50	L1' - B0'	south	lower lateral bracing	both faces of top and bottom flanges	
Span 49-50	L1' - L1'		lower floor beam	top and bottom side of top and bottom flange of lower floor beam at B1' connection	
Span 49-50	B0'		top and bottom gusset plates for lateral bracing	both top and bottom faces	
Span 49-50	L0'	north	gusset plates	both north and south exterior faces	
Span 49-50	L0'	north	lower floor beam	both sides of web near truss vertical connection	
Span 49-50	L0'	north	truss vertical	both east and west faces	
Span 49-50	L0'	south	gusset plates	both north and south exterior faces	8 12
Span 49-50	L0'	south	lower floor beam	both sides of web near truss vertical connection	
Span 49-50	L0'	south	truss vertical	both east and west faces	14 14

Pier or Span Location	Member or Joint Location	Truss	Member Type	Measurement Location	Paint Thickness (mils)
Span 57-58	U0'	south	upper floor beam	both sides of web near truss vertical connection	
Span 57-58	U0'	south	truss vertical	both east and west faces	
Span 59-60	L0	north	gusset plates	both north and south exterior faces	24 20
Span 59-60	L0	north	lower floor beam	both sides of web near truss vertical connection	21 26
Span 59-60	L0	north	truss vertical	both east and west faces	20 30
Span 59-60	L0	south	gusset plates	both north and south exterior faces	10 16
Span 59-60	L0	south	lower floor beam	both sides of web near truss vertical connection	30 16
Span 59-60	L0	south	truss vertical	both east and west faces	18 30
Span 59-60	L0 - L1	north	lower chord	both north and south interior faces @ L0	16 18
Span 59-60	L0 - L1	south	lower chord	both north and south interior faces @ L0	12 28
Span 59-60	L0 - L2	north	lower chord	top and bottom faces	60 34
Span 59-60	L0 - L2	south	lower chord	top and bottom faces	58 28
Span 59-60	L0 - U0	north	truss vertical	both north and south exterior faces	28 48
Span 59-60	L0 - U0	south	truss vertical	both north and south exterior faces	36 20
Span 59-60	L1	north	gusset plates	both north and south exterior faces	25 26
Span 59-60	L1	north	lower floor beam	both sides of web near truss vertical connection	24 34
Span 59-60	L1	north	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	28 30
Span 59-60	L1	north	truss vertical	both east and west faces	26 22
Span 59-60	L1	north	top and bottom gusset plates for lateral bracing	both top and bottom faces	T 35 23 B 50 22
Span 59-60	L1	south	gusset plates	both north and south exterior faces	20 30
Span 59-60	L1	south	lower floor beam	both sides of web near truss vertical connection	12 26
Span 59-60	L1	south	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	28 36
Span 59-60	L1	south	truss vertical	both east and west faces	30 12
Span 59-60	L1	south	top and bottom gusset plates for lateral bracing	both top and bottom faces	T 16 12 B 28 36

Pier or Span Location	Member or Joint Location	Truss	Member Type	Measurement Location	Paint Thickness (mils)
Span 59-60	L1 - B0	north	lower lateral bracing	both faces of top and bottom flanges	T 40 26
					B 40 32
Span 59-60	L1 - B0	south	lower lateral bracing	both faces of top and bottom flanges	T 42 24
					B 50 36
Span 59-60	B0		top and bottom gusset plates for lateral bracing	both top and bottom faces	T 34 34
					B 35 30
Span 59-60	L2	north	gusset plates	both north and south exterior faces	26 24
Span 59-60	L2	north	lower floor beam	both sides of web near truss vertical connection	32 26
Span 59-60	L2	north	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	36 24
Span 59-60	L2	north	truss vertical	both east and west faces	38 34
Span 59-60	L2	south	gusset plates	both north and south exterior faces	30 24
Span 59-60	L2	south	lower floor beam	both sides of web near truss vertical connection	24 22
Span 59-60	L2	south	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	26 26
Span 59-60	L2	south	truss vertical	both east and west faces	26 24
Span 59-60	L3	north	gusset plates	both north and south exterior faces	40 38
Span 59-60	L3	north	lower floor beam	both sides of web near truss vertical connection	24 24
Span 59-60	L3	north	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	30 24
Span 59-60	L3	north	truss vertical	both east and west faces	32 32
Span 59-60	L3	south	gusset plates	both north and south exterior faces	30 30
Span 59-60	L3	south	lower floor beam	both sides of web near truss vertical connection	22 26
Span 59-60	L3	south	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	38 26
Span 59-60	L3	south	truss vertical	both east and west faces	22 18
Span 59-60	L3'	north	gusset plates	both north and south exterior faces	38 34
Span 59-60	L3'	north	lower floor beam	both sides of web near truss vertical connection	28 22
Span 59-60	L3'	north	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	28 24
Span 59-60	L3'	north	truss vertical	both east and west faces	22 26
Span 59-60	L3'	south	gusset plates	both north and south exterior faces	30 26

Pier or Span Location	Member or Joint Location	Truss	Member Type	Measurement Location	Paint Thickness (mils)
Span 59-60	L3'	south	lower floor beam	both sides of web near truss vertical connection	20 22
Span 59-60	L3'	south	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	38 22
Span 59-60	L3'	south	truss vertical	both east and west faces	20 18
Span 59-60	L2'	north	gusset plates	both north and south exterior faces	30 32
Span 59-60	L2'	north	lower floor beam	both sides of web near truss vertical connection	30 20
Span 59-60	L2'	north	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	32 30
Span 59-60	L2'	north	truss vertical	both east and west faces	28 30
Span 59-60	L2'	south	gusset plates	both north and south exterior faces	24 26
Span 59-60	L2'	south	lower floor beam	both sides of web near truss vertical connection	24 28
Span 59-60	L2'	south	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	26 24
Span 59-60	L2'	south	truss vertical	both east and west faces	26 26
Span 59-60	L1'	north	gusset plates	both north and south exterior faces	32 26
Span 59-60	L1'	north	lower floor beam	both sides of web near truss vertical connection	20 22
Span 59-60	L1'	north	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	38 30
Span 59-60	L1'	north	truss vertical	both east and west faces	24 24
Span 59-60	L1'	north	top and bottom gusset plates for lateral bracing	both top and bottom faces	T 50 24 B 42 38
Span 59-60	L1'	south	gusset plates	both north and south exterior faces	36 28
Span 59-60	L1'	south	lower floor beam	both sides of web near truss vertical connection	22 18
Span 59-60	L1'	south	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	26 24
Span 59-60	L1'	south	truss vertical	both east and west faces	26 22
Span 59-60	L1'	south	top and bottom gusset plates for lateral bracing	both top and bottom faces	T 44 30 B 44 36
Span 59-60	L1' - B0'	north	lower lateral bracing	both faces of top and bottom flanges	T 42 30 B 38 28
Span 59-60	L1' - B0'	south	lower lateral bracing	both faces of top and bottom flanges	T 38 22 B 26 30
Span 59-60	B0'		top and bottom gusset plates for lateral bracing	both top and bottom faces	T 38 20 B 38 30

Pier or Span Location	Member or Joint Location	Truss	Member Type	Measurement Location	Paint Thickness (mils)
Span 59-60	L0'	north	gusset plates	both north and south exterior faces	24 24
Span 59-60	L0'	north	lower floor beam	both sides of web near truss vertical connection	30 26
Span 59-60	L0'	north	truss vertical	both east and west faces	26 28
Span 59-60	L0'	south	gusset plates	both north and south exterior faces	28 20
Span 59-60	L0'	south	lower floor beam	both sides of web near truss vertical connection	26 32
Span 59-60	L0'	south	truss vertical	both east and west faces	30 24
Span 59-60	L0' - L1'	north	lower chord	both north and south interior faces @ L0	24 20
Span 59-60	L0' - L1'	south	lower chord	both north and south interior faces @ L0	24 28
Span 59-60	L0' - L2'	north	lower chord	top and bottom faces	78 46
Span 59-60	L0' - L2'	south	lower chord	top and bottom faces	68 30
Span 59-60	L0' - U0'	north	truss vertical	both north and south exterior faces	20 24
Span 59-60	L0' - U0'	south	truss vertical	both north and south exterior faces	22 28
Span 59-60	U0	north	truss vertical	both north and south exterior faces	
Span 59-60	U0	north	upper floor beam	both sides of web near truss vertical connection	
Span 59-60	U0	north	truss vertical	both east and west faces	
Span 59-60	U0	south	truss vertical	both north and south exterior faces	
Span 59-60	U0	south	upper floor beam	both sides of web near truss vertical connection	
Span 59-60	U0	south	truss vertical	both east and west faces	
Span 59-60	U1	north	truss vertical	both north and south exterior faces	
Span 59-60	U1	north	upper floor beam	both sides of web near truss vertical connection	
Span 59-60	U1	north	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	
Span 59-60	U1	north	truss vertical	both east and west faces	
Span 59-60	U1	south	truss vertical	both north and south exterior faces	
Span 59-60	U1	south	upper floor beam	both sides of web near truss vertical connection	

Pier or Span Location	Member or Joint Location	Truss	Member Type	Measurement Location	Paint Thickness (mils)
Span 59-60	U1'	south	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	
Span 59-60	U1'	south	truss vertical	both east and west faces	
Span 59-60	U0'	north	truss vertical	both north and south exterior faces	
Span 59-60	U0'	north	upper floor beam	both sides of web near truss vertical connection	
Span 59-60	U0'	north	truss vertical	both east and west faces	
Span 59-60	U0'	south	truss vertical	both north and south exterior faces	
Span 59-60	U0'	south	upper floor beam	both sides of web near truss vertical connection	
Span 59-60	U0'	south	truss vertical	both east and west faces	
Span 60-61	L0	north	gusset plates	both north and south exterior faces	30 40
Span 60-61	L0	north	lower floor beam	both sides of web near truss vertical connection	22 36
Span 60-61	L0	north	truss vertical	both east and west faces	22 26
Span 60-61	L0	south	gusset plates	both north and south exterior faces	22 30
Span 60-61	L0	south	lower floor beam	both sides of web near truss vertical connection	26 32
Span 60-61	L0	south	truss vertical	both east and west faces	20 28
Span 60-61	L0 - L1	north	lower chord	both north and south interior faces @ L0	28 18
Span 60-61	L0 - L1	south	lower chord	both north and south interior faces @ L0	32 24
Span 60-61	L0 - L2	north	lower chord	top and bottom faces	66 26
Span 60-61	L0 - L2	south	lower chord	top and bottom faces	74 26
Span 60-61	L0 - U0	north	truss vertical	both north and south exterior faces	22 40
Span 60-61	L0 - U0	south	truss vertical	both north and south exterior faces	32 28
Span 60-61	L1	north	gusset plates	both north and south exterior faces	30 32
Span 60-61	L1	north	lower floor beam	both sides of web near truss vertical connection	22 24
Span 60-61	L1	north	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	22 18
Span 60-61	L1	north	truss vertical	both east and west faces	24 26

Pier or Span Location	Member or Joint Location	Truss	Member Type	Measurement Location	Paint Thickness (mils)
Span 60-61	L1	north	top and bottom gusset plates for lateral bracing	both top and bottom faces	T 56 32
					R 50 28
Span 60-61	L1	south	gusset plates	both north and south exterior faces	28 30
Span 60-61	L1	south	lower floor beam	both sides of web near truss vertical connection	24 26
Span 60-61	L1	south	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	22 20
Span 60-61	L1	south	truss vertical	both east and west faces	26 28
Span 60-61	L1	south	top and bottom gusset plates for lateral bracing	both top and bottom faces	T 50 20
					B 32 34
Span 60-61	L1 - B0	north	lower lateral bracing	both faces of top and bottom flanges	T 42 30
					B 30 22
Span 60-61	L1 - B0	south	lower lateral bracing	both faces of top and bottom flanges	T 35 24
					B 34 16
Span 60-61	B0		top and bottom gusset plates for lateral bracing	both top and bottom faces	T 52 30
					B 38 42
Span 60-61	L2	north	gusset plates	both north and south exterior faces	24 24
Span 60-61	L2	north	lower floor beam	both sides of web near truss vertical connection	24 20
Span 60-61	L2	north	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	20 24
Span 60-61	L2	north	truss vertical	both east and west faces	34 18
Span 60-61	L2	south	gusset plates	both north and south exterior faces	22 20
Span 60-61	L2	south	lower floor beam	both sides of web near truss vertical connection	26 24
Span 60-61	L2	south	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	28 18
Span 60-61	L2	south	truss vertical	both east and west faces	28 24
Span 60-61	L3	north	gusset plates	both north and south exterior faces	28 38
Span 60-61	L3	north	lower floor beam	both sides of web near truss vertical connection	26 22
Span 60-61	L3	north	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	28 28
Span 60-61	L3	north	truss vertical	both east and west faces	18 28
Span 60-61	L3	south	gusset plates	both north and south exterior faces	32 30
Span 60-61	L3	south	lower floor beam	both sides of web near truss vertical connection	28 28
Span 60-61	L3	south	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	24 30

Pier or Span Location	Member or Joint Location	Truss	Member Type	Measurement Location	Paint Thickness (mils)
Span 60-61	L3	south	truss vertical	both east and west faces	22 26
Span 60-61	L3'	north	gusset plates	both north and south exterior faces	26 34
Span 60-61	L3'	north	lower floor beam	both sides of web near truss vertical connection	26 24
Span 60-61	L3'	north	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	28 28
Span 60-61	L3'	north	truss vertical	both east and west faces	24 20
Span 60-61	L3'	south	gusset plates	both north and south exterior faces	30 30
Span 60-61	L3'	south	lower floor beam	both sides of web near truss vertical connection	22 24
Span 60-61	L3'	south	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	34 30
Span 60-61	L3'	south	truss vertical	both east and west faces	22 20
Span 60-61	L2'	north	gusset plates	both north and south exterior faces	24 26
Span 60-61	L2'	north	lower floor beam	both sides of web near truss vertical connection	14 24
Span 60-61	L2'	north	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	30 28
Span 60-61	L2'	north	truss vertical	both east and west faces	22 26
Span 60-61	L2'	south	gusset plates	both north and south exterior faces	22 26
Span 60-61	L2'	south	lower floor beam	both sides of web near truss vertical connection	14 28
Span 60-61	L2'	south	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	34 26
Span 60-61	L2'	south	truss vertical	both east and west faces	30 26
Span 60-61	L1'	north	gusset plates	both north and south exterior faces	18 24
Span 60-61	L1'	north	lower floor beam	both sides of web near truss vertical connection	12 14
Span 60-61	L1'	north	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	20 16
Span 60-61	L1'	north	truss vertical	both east and west faces	16 22
Span 60-61	L1'	south	gusset plates	both north and south exterior faces	18 14
Span 60-61	L1'	south	lower floor beam	both sides of web near truss vertical connection	16 16
Span 60-61	L1'	south	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	18 14

Pier or Span Location	Member or Joint Location	Truss	Member Type	Measurement Location	Paint Thickness (mils)
Span 60-61	L1'	south	truss vertical	both east and west faces	14 12
Span 60-61	L0'	north	gusset plates	both north and south exterior faces	28 14
Span 60-61	L0'	north	lower floor beam	both sides of web near truss vertical connection	18 34
Span 60-61	L0'	north	truss vertical	both east and west faces	30 20
Span 60-61	L0'	south	gusset plates	both north and south exterior faces	16 26
Span 60-61	L0'	south	lower floor beam	both sides of web near truss vertical connection	30 22
Span 60-61	L0'	south	truss vertical	both east and west faces	28 34
Span 60-61	L0' - L1'	north	lower chord	both north and south interior faces @ L0	16 12
Span 60-61	L0' - L1'	south	lower chord	both north and south interior faces @ L0	18 30
Span 60-61	L0' - L2'	north	lower chord	top and bottom faces	20 16
Span 60-61	L0' - L2'	south	lower chord	top and bottom faces	38 20
Span 60-61	L0' - L2'	north	lower chord	both north and south exterior faces	18 18
Span 60-61	L0' - L2'	south	lower chord	both north and south exterior faces	08 12
Span 60-61	L0' - U1'	north	truss diagonal	both north and south exterior faces near L0	36 32
Span 60-61	L0' - U1'	south	truss diagonal	both north and south exterior faces near L0	34 34
Span 60-61	U0	north	truss vertical	both north and south exterior faces	
Span 60-61	U0	north	upper floor beam	both sides of web near truss vertical connection	
Span 60-61	U0	north	truss vertical	both east and west faces	
Span 60-61	U0	south	truss vertical	both north and south exterior faces	
Span 60-61	U0	south	upper floor beam	both sides of web near truss vertical connection	
Span 60-61	U0	south	truss vertical	both east and west faces	
Span 60-61	U1	north	truss vertical	both north and south exterior faces	
Span 60-61	U1	north	upper floor beam	both sides of web near truss vertical connection	
Span 60-61	U1	north	exterior deck stringer	top and bottom sides of bottom flange for cable restrainer	

CANTILEVER SPAN

Pier or span Location	Member or joint Location	Member Type	Measurement Location	Paint Thickness (mils)
Span 33	UA ₆ -UA ₇	N.side, upper chord	⊗ mid span, N. angle where lacing attaches	18
Span 33	UA ₆ -UA ₇	N.side, upper chord	⊙ mid span, S. angle where lacing attaches	14
Span 33	UA ₅	N.side, gusset	exterior face of gusset plate	22
Span 33	UA ₅	N.side, gusset	interior face of gusset plate	14
Span 33	MA ₁ -L ₀	N.side, diagonal	5' up from deck, N. angle where lacing attaches	34
Span 33	MA ₁ -L ₀	N.side, diagonal	5' up from deck, S. angle where lacing attaches	34
Span 34	LC ₁ -UC ₃	N.side, diagonal	5' up from deck, N. angle where lacing attaches	24
Span 34	LC ₁ -UC ₃	N.side, diagonal	5' up from deck, S. angle where lacing attaches	22
Span 34	US ₃	N.side, gusset	exterior face of gusset plate	22
Span 34	US ₃	N.side, gusset	interior face of gusset plate	16
SPAN 33	UA ₆	N.side, gusset	ext. face	18
"	"	"	int. face	14
"	UA ₇	"	ext. face	18
"	"	"	int. face	18
"	UA ₅	"	ext. face	16
"	"	"	int. face	16
SPAN 34	US ₃	N.side, gusset	ext. face	25
"	"	"	int. face	18

R-SR Bridge



TRUSS SPAN # 28

Span 28	L ₀	plumb post	east face at connection to low. deck floor beam	22
Span 28	L ₀	lower floor beam	east face of lower deck floor beam 2' inboard	26
Span 28	L ₀	chord	top surface of chord 3' from plumb post	66
Span 28	L ₀	w.b. gusset @ mid	top surface of wind brace gusset, middle of f.b.	36
Span 28	U₀	plumb post	east face at connection to up. deck floor beam	
Span 28	U₀	upper floor beam	east face of upper floor beam 2' inboard	
Span 28	L ₁	plumb post	east face at connection to low. deck floor beam	29
Span 28	L ₁	chord	top surface of chord 3' from plumb post	44
Span 28	L ₁	lower floor beam	east face of lower deck floor beam 2' inboard	38
Span 28	L ₁	w.b. gusset @ mid	top surface of wind brace gusset, middle of f.b.	34
Span 28	L ₁	w.b. gusset @ end	top surface of wind brace gusset, S. end of f.b.	26 36
Span 28	U₁	plumb post	east face at connection to up. deck floor beam	
Span 28	U₁	upper floor beam	east face of upper floor beam 2' inboard	
Span 28	L ₂	chord	top surface of chord 3' from plumb post	74
Span 28	L ₂	w.b. gusset @ mid	top surface of wind brace gusset, middle of f.b.	36
Span 28	L ₂	w.b. gusset @ end	top surface of wind brace gusset, S. end of f.b.	34
Span 28	L ₃	chord	top surface of chord 3' from plumb post	62
Span 28	L ₃	w.b. gusset @ mid	top surface of wind brace gusset, middle of f.b.	22
Span 28	L ₃	w.b. gusset @ end	top surface of wind brace gusset, S. end of f.b.	28
Span 28	L ₄	chord	top surface of chord 3' from plumb post	66
Span 28	L ₄	w.b. gusset @ mid	top surface of wind brace gusset, middle of f.b.	36
Span 28	L ₄	w.b. gusset @ end	top surface of wind brace gusset, S. end of f.b.	38
Span 28	L ₅	plumb post	east face at connection to low. deck floor beam	22
Span 28	L ₅	lower floor beam	east face of lower floor beam 2' inboard	42
Span 28	U₅	plumb post	east face at connection to up. deck floor beam	
Span 28	U₅	upper floor beam	east face of upper floor beam 2' inboard	
Span 28	L ₂	plumb post	east face at connection to low. deck floor beam	28
Span 28	L ₂	lower floor beam	east face of lower floor beam 2' inboard	34
Span 28	U₂	plumb post	east face at connection to up. deck floor beam	
Span 28	U₂	upper floor beam	east face of upper floor beam 2' inboard	