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S=Bar is included in substructure quantities.

H=A-615, Grade 60

F=Bar to be field welded.

T= Tie or Stirrup.

V= Bar dimensions vary between dimensions shown on this line and the following line.

MARK NO.	LOCATION	SIZE	NO. REQ'D.	BEND TYPE	TIE OR STIRRUP	FIELD WELD	SUBSTR.	VARIES	NO. EACH	DIMENSIONS (Out to out)										LENGTH		WEIGHT			
										U		W		X		Y		Z		θ <sub>1</sub>	θ <sub>2</sub>		Ft.	In.	Lbs.
										Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.						
NORTH BRIDGE																									
1	FOOTING PIERS 162 N. BRIDGE	7	180	50															8	6	3127				
2	FOOTING PIERS 162 N. BRIDGE	6	44	50						27	0.0								27	0	1784				
3	FOOTING PIERS 162 N. BRIDGE	5	106	50						8	6.0								8	6	940				
4	FOOTING PIERS 162 N. BRIDGE	5	40	50						27	0.0								27	0	1126				
5	ABUTMENT WALL PIERS 162 N. BR.	4	96	50						27	0.0								27	0	1731				
6	ABUTMENT WALL PIERS 162 N. BR.	5	16	50						27	0.0								27	0	451				
7	ABUTMENT WALL PIERS 162 N. BR.	4	48	50						5	8.0								5	8	182				
8	ABUTMENT WALL PIERS 162 N. BR.	4	16	50						11.5									1	0	11				
9	ABUTMENT WALL PIER 1 N. BR.	6	87	50						10	6.0								10	6	1372				
9	ABUTMENT WALL PIER 2 N. BR.	6	87	50						10	4.0								10	4	1350				
10	ABUTMENT WALL PIER 1 N. BR.	6	87	54						7	6.0								8	5	1307				
10	ABUTMENT WALL PIER 2 N. BR.	6	87	54						10	8.0								11	7	1198				
11	ABUTMENT WALL PIER 1 N. BR.	10	87	54						13	10.0								14	9	6130				
11	ABUTMENT WALL PIER 2 N. BR.	10	87	54						16	3.0								17	10	5725				
12	ABUTMENT WALL PIER 1 N. BR.	4	87	80	T					15	2.0								16	9	242				
12	ABUTMENT WALL PIER 2 N. BR.	4	87	80	T					3	4.2	6.0	6.0	1.0	1.0	90	76	4	2	242					
13	ABUTMENT WALL PIER 1 N. BR.	5	66	82	T					3	9.5	2	10.0	2	10.0	1.3	1.3	90	76	10	5	717			
13	ABUTMENT WALL PIER 2 N. BR.	5	66	82	T					3	8.3	2	10.0	2	10.0	1.3	1.3	90	76	10	5	717			
21	ALL CURTAIN WALLS N. BRIDGE	5	8	80						4	8.0								6	9	56				
22	ALL CURTAIN WALLS N. BRIDGE	5	48	50						6	8.0								6	8	334				
23	NW CURTAIN WALL N. BRIDGE	5	26	50						10	4.0								10	4	233				
23	SW CURTAIN WALL N. BRIDGE	5	26	50						10	4.0								10	4	233				
23	NE CURTAIN WALL N. BRIDGE	5	26	50						10	4.0								10	4	233				
23	SE CURTAIN WALL N. BRIDGE	5	26	50						10	4.0								10	4	233				
24	NW & SW CURTAIN WALL N. BR.	5	4	80						17	6.0	10	0.0	0.0	1.3	0.0	76	0	27	8	115				
24	NE & SE CURTAIN WALL N. BR.	5	4	80						17	6.0	10	0.0	0.0	1.3	0.0	76	0	27	8	115				
25	NW CURTAIN WALL N. BRIDGE	4	10	50						17	5.0								17	4	116				
25	SW CURTAIN WALL N. BRIDGE	4	10	50						20	5.0								20	5	136				
25	NE CURTAIN WALL N. BRIDGE	4	10	50						16	3.5								16	4	109				
25	SE CURTAIN WALL N. BRIDGE	4	10	50						19	5.0								19	5	130				
26	NW & SW CURTAIN WALL N. BR.	4	4	50						10	0.0								10	0	21				
26	NE & SE CURTAIN WALL N. BR.	4	4	50						6	0.0								6	0	21				
30	SLAB TRANSVERSE TOP N. BR.	6	208	51						32	0.0								32	8	10206				
31	SLAB TRANSVERSE TOP N. BR.	6	208	51						24	0.0								24	8	7706				
32	SLAB LONGITUDINAL TOP N. BR.	5	224	50						32	5.0								32	5	7574				
33	SLAB TRANSVERSE BOTTOM N. BR.	6	416	50						26	0.0								26	0	16246				
34	SLAB LONGITUDINAL BOT. N. BR.	6	126	50						42	6.0								42	6	8043				
50	END DIAPHRAGM N. BRIDGE	6	8	50						27	1.0								27	1	325				
51	END DIAPHRAGM N. BRIDGE	6	8	50						27	1.0								27	1	325				
52	END DIAPHRAGM N. BRIDGE	4	48	50						27	1.0								27	1	868				
53	END DIAPHR. PAV'T SEAT N. BR.	4	4	50						26	2.0	7	6.0	9.0	0.0				26	2	70				
54	END DIAPHR. STIRRUPS N. BR.	4	84	64	T					8	10.0								8	10	496				
55	END DIAPHR. STIRRUPS N. BR.	4	84	65	T					8	10.0								8	10	496				
56	END DIAPHR. TIES N. BR.	4	164	56	T					1	11.0								1	11	210				
60	INTERMED. DIAPHR. N. BR.	4	48	50						7	4.0								7	4	235				
61	INTERMED. DIAPHR. N. BR.	8	2	50						28	6.0								28	6	152				
61	INTERMED. DIAPHR. N. BR.	8	2	50						21	6.0								21	6	115				
62	INTERMED. DIAPHR. N. BR.	11	2	50						30	3.0								30	3	321				
62	INTERMED. DIAPHR. N. BR.	11	2	50						21	4.0								21	4	227				
63	INTERMED. DIAPHR. N. BR. STIRR	4	120	71						49	0.0	4	5.5	4	5.5				9	1	728				
64	INTERMED. DIAPHR. N. BR. STIRR	7	8	50						26	4.0								49	0	801				
70	T.R. DISTRIBUTION N. BRIDGE	4	20	50						2	9.0	8.0	1	5.0	8.0	0.0			26	4	352				
71	T.R. TO SLAB TIE N. BRIDGE	5	372	80	T					2	8.0	0.0	10.0	0.0	2.0				2	9	1067				
72	T.R. TIE N. BRIDGE	5	372	80	T					2	6.0	0.0	10.0	0.0	2.0				3	2	1229				
73	T.R. TIE N. BRIDGE	4	186	80						2	4.0	9.0	0.0	2.0	0.0	90	0	3	0	373					
74	T.R. TIE N. BRIDGE	4	186	80						2	4.0	9.0	0.0	2.0	2.0	95	85	3	5	425					
75	T.R. LONGITUDINAL N. BRIDGE	6	60	50						8	0.0								8	0	721				
76	T.R. LONGITUDINAL N. BRIDGE	4	150	50						8	0.0								8	0	802				
77	T.R. TO SLAB TIE N. BRIDGE	4	186	80						1	5.0	1	5.0	0.0	1.5	0.0	90	0	2	9	342				
80	T.R. TO RETAIN WALL TIE N. BR.	5	4	80						1	6.0	6.0	7.0	1.5	1.5	101	173	5	9	24					
81	T.R. TO RETAIN WALL TIE N. BR.	5	4	80						1	6.0	6.0	7.0	1.5	1.5	101	173	6	9	28					
82	T.R. TO RETAIN WALL TIE N. BR.	5	164	80						2	6.0	6.0	7.0	1.5	1.5	101	173	7	9	1326					
83	T.R. LONGITUDINAL RET. WALL	6	8	80						9	6.0	2	4.0	0.0	2.0	0.0	125	0	12	4	148				
83	T.R. LONGITUDINAL RET. WALL	6	16	50						8	0.0							8	0	191					
84	T.R. LONGITUDINAL RET. WALL	8	40	50						8	0.0							8	0	854					
84	T.R. LONGITUDINAL RET. WALL	8	8	50						10	10.0							10	10	231					
84	T.R. LONGITUDINAL RET. WALL	8	8	50						11	2.0							11	2	235					
85	T.R. LONGITUDINAL RET. WALL	8	4	54						11	2.0							12	4	132					
86	T.R. TIE N. BR. RET. WALL	4	84	80						2	4.0	9.0	6.0	2.0	2.0	95	85	3	5	192					
87	T.R. TIES RETAINING WALL	4	88	91						3	3.0							3	3	191					
Note: T.R. = Traffic Railing																									

Note: T.R. = Traffic Railing

S=Bar is included in substructure quantities.

A-615, Grade 60.

F=Bar to be field welded.

T= Tie or Stirrup

V= Bar dimensions vary between dimensions shown on this line and the following line.

MARK NO.	LOCATION	SIZE	NO. REQ'D.	BEND TYPE	TIE OR STIRRUP	FIELD WELD	SUBSTR.	VARIES	NO. EACH	DIMENSIONS (Out to out)										LENGTH		WEIGHT		
										U		W		X		Y		Z		θ <sub>1</sub>	θ <sub>2</sub>		Ft.	In.
										Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Deg.	Deg.			
SOUTH BRIDGE																								
1	FOOTING PIERS 162 S. BRIDGE	7	168	50			S			8	6.0							8	6.	2919				
2	FOOTING PIERS 162 S. BRIDGE	6	44	50			S			27	0.0							27	0.	1784				
3	FOOTING PIERS 162 S. BRIDGE	5	106	50			S			8	6.0							8	6.	940				
4	FOOTING PIERS 162 S. BRIDGE	5	40	50			S			27	0.0							27	0.	1126				
5	ABUTMENT WALL PIERS 162 S.BR	4	96	50			S			27	0.0							27	0.	1731				
6	ABUTMENT WALL PIERS 162 S.BR	5	16	50			S			27	0.0							27	0.	451				
7	ABUTMENT WALL PIERS 162 S.BR	4	48	50			S			5	8.0							5	8.	182				
8	ABUTMENT WALL PIERS 162 S.BR	4	16	50			S			11.5								1	0.	11				
11	ABUTMENT WALL PIER 1 S BR	10	79	54			S	V	1	12	3.5							13	10.					
11	ABUTMENT WALL PIER 2 S BR	10	79	54			S	V	1	15	2.5							16	9.	5198				
12	ABUTMENT WALL PIER 1 S BR	4	79	80	T		S			12	3.5							13	10.					
12	ABUTMENT WALL PIER 2 S BR	4	79	80	T		S			15	2.5							16	9.	5196				
13	ABUTMENT WALL PIER 1 S BR	5	66	82	T		S			3	4.2							4	2.	220				
13	ABUTMENT WALL PIER 2 S BR	4	79	80	T		S			3	4.2							4	2.	220				
13	ABUTMENT WALL PIER 1 S BR	5	66	82	T		S			3	9.0							10	5.	717				
13	ABUTMENT WALL PIER 2 S BR	5	66	82	T		S			3	9.0							10	5.	717				
14	ABUTMENT WALL PIER 1 S BR	7	79	50			S			10	0.0							10	0.	1615				
14	ABUTMENT WALL PIER 2 S BR	7	79	50			S			10	0.0							10	0.	1615				
15	ABUTMENT WALL PIER 1 S BR	7	79	34			S	V	1	6	3.0							7	4.					
15	ABUTMENT WALL PIER 2 S BR	7	79	54			S	V	1	9	5.0							10	6.	1440				
										6	3.0							7	4.					
										9	5.0							10	6.	1440				
21	ALL CURTAIN WALLS S BRIDGE	5	8	80			S			4	8.0							6	9.	56				
22	ALL CURTAIN WALLS S BRIDGE	5	48	50			S			6	8.0							6	8.	334				
23	NW CURTAIN WALL S BRIDGE	5	26	50			S	V	2	6	10.0							6	10.					
23	SW CURTAIN WALL S BRIDGE	5	26	50			S	V	2	10	4.0							10	4.	233				
23	NE CURTAIN WALL S BRIDGE	5	26	50			S	V	2	6	10.0							6	10.					
23	SE CURTAIN WALL S BRIDGE	5	26	50			S	V	2	10	4.0							10	4.	233				
24	NW & SW CURTAIN WALL S. BR.	5	4	80			S			17	6.0							6	10.					
24	NE & SE CURTAIN WALL S. BR.	5	4	80			S			10	4.0							10	4.	233				
25	NW CURTAIN WALL S BRIDGE	4	10	50			S			16	3.5							6	10.					
25	SW CURTAIN WALL S BRIDGE	4	10	50			S			19	5.0							19	5.	130				
25	NE CURTAIN WALL S BRIDGE	4	10	50			S			16	3.5							16	4.	109				
25	SE CURTAIN WALL S BRIDGE	4	10	50			S			19	5.0							19	5.	130				
26	NW & SW CURTAIN WALL S. BR.	4	4	50			S	V	2	10	0.0							10	0.					
26	NE & SE CURTAIN WALL S. BR.	4	4	50			S	V	2	6	0.0							6	0.					
										10	0.0							10	0.					
										6	0.0							6	0.					
										6	0.0							6	0.					
40	SLAB TRANSVERSE TOP S. BR.	6	187	51						37	0.0							37	8.	10580				
41	SLAB TRANSVERSE TOP S. BR.	6	187	51						24	0.0							24	8.	6928				
42	LONGITUDIONAL TOP S.BR.	5	224	50						29	5.0							29	5.	6873				
43	TRANSVERSE BOTTOM S.BR.	6	374	50						26	0.0							26	0.	14605				
44	LONGITUDIONAL BOT S.BR.	6	126	50						38	6.0							38	6.	7286				
50	END DIAPHRAGM S BRIDGE	6	8	50						27	1.0							27	1.	325				
51	END DIAPHRAGM S BRIDGE	6	8	50						27	1.0							27	1.	325				
52	END DIAPHRAGM S BRIDGE	4	48	50						27	1.0							27	1.	866				
53	END DIAPH. PAV'T SEAT S BR.	4	4	50						26	2.0							26	2.	70				
54	END DIAPH. STIRRUPS S BR.	4	84	64	T					2	0.0							8	10.	496				
55	END DIAPH. STIRRUPS S BR.	4	84	65	T					7	6.0							8	10.	496				
56	END DIAPH. TIES S BR.	4	164	56	T					1	3.0							1	11.	210				
60	INTERMED. DIAPH. S.BR	4	48	50						7	4.0							7	4.	235				
61	INTERMED. DIAPH. S.BR	8	2	50						28	6.0							28	6.	152				
61	INTERMED. DIAPH. S.BR	8	2	50						21	6.0							21	6.	115				
62	INTERMED. DIAPH. S.BR	11	2	50						30	3.0							30	3.	321				
62	INTERMED. DIAPH. S.BR	11	2	50						21	4.0							21	4.	227				
63	INTERMED. DIAPH. S.BR-STIRR	4	120	11						5	0.0							9	1.	728				
64	INTERMED. DIAPH. S.BR TOP	7	8	50						49	0.0							49	0.	801				
70	T.R. DISTRIBUTION S BRIDGE	4	16	50						29	6.0							29	6.	315				
71	T.R. TO SLAB TIE S BRIDGE	5	396	69	T					8	0.0							2	9.	964				
72	T.R. TIE S BRIDGE	5	336	80						2	6.0							3	2.	1110				
73	T.R. TIE S BRIDGE	4	168	80						2	4.0							3	0.	337				
74	T.R. TIE S BRIDGE	4	168	80						2	4.0							3	5.	340				
75	T.R. LONGITUDIONAL S BRIDGE	6	52	50						8	4.0							8	4.	651				
76	T.R. LONGITUDIONAL S BRIDGE	4	130	50						8	4.0							8	4.	724				
77	T.R. TO SLAB TIE S BRIDGE	4	168	80						1	5.0							2	9.	309				
80	T.R. TO RETAINING WALL TIE	5	4	80			S				6.0													
81	T.R. TO RETAINING WALL TIE	5	4	80			S			1	6.0													
82	T.R. TO RETAINING WALL TIE	5	160	80			S			2	6.0													
83	T.R. LONGITUDIONAL RET. WALL	6	16	50			S			8	3.0							8	3.	198				
83	T.R. LONGITUDIONAL RET. WALL	6	8	50			S			10	0.0							11	8.	140				
84	T.R. LONGITUDIONAL RET. WALL	8	40	50			S			8	3.0							8	3.	881				
84	T.R. LONGITUDIONAL RET. WALL	8	8	50			S			10	2.0							10	2.	217				
84	T.R. LONGITUDIONAL RET. WALL	8	8	50			S			10	6.0							10	6.	224				
85	T.R. LONGITUDIONAL RET. WALL	8	4	54			S			10	6.0							11	8.	125				
86	T.R. TIES N.B.R. RET. WALL	4	84	80			S			2	4.0							3	5.	192				
87	T.R. TIES RET. WALL S BRIDGE	4	82	91			S											3	3.	178				