

**REBAR ESTIMATION  
COVER SHEET**

PROJECT NAME : AM CALVERT MELT SHOP  
PROJECT NUMBER : -  
BID DATE : 03/16/2021  
LOCATION : -

ESTIMATOR : KRS  
CREATED : 03/16/2021  
MODIFIED : -  
REVISION NUMBER : 0  
REBAR GRADE : ASTM A615-GRADE 60 (UNCOATED)

ELEMENTS	Bar Weight in "Lbs"
ISOLATED FOOTING & DOWELS	45,68,244.71
CONCRETE PIER & GRADE BEAM DOWELS	2,80,550.84
GRADE BEAM	2,14,095.78
SCRAP PIT	1,59,420.52
<b>Total Weight in "Lbs"</b>	<b>52,22,311.85</b>
<b>Total Weight in "Tons"</b>	<b>2,611.16</b>

ADDENDUM/RFI: RFI's
SPECIFICATION: SEEN
DRAWINGS : STRUCTURAL : 1627-F-F001, 1627-F-F015 TO 1627-F-F067, 1627-F-F070 TO 1627-F-F091

<b>ASSUMPTIONS:</b>	1. AT FOOTING PERIMETER "C" BARS LEG VALUE ASSUMED TO 2'-6" LENGTH. 2. #5 @12" T&B TRANSVERSE REINF. ASSUMED TO ISOLATED FOOTING IN SECTION A-A/1627-F-F028 & A-A/1627-F-F064
<b>INCLUSIONS:</b>	ISOLATED FOOTING, CONCRETE PIER, GRADE BEAM & SCRAP PIT.
<b>EXCLUSIONS:</b>	1. MESH, OTHER ITEMS NOT MENTIONED IN SCOPE INCLUSIONS & ELEMENTS ESTIMATED 2. SECTION DETAILS MENTIONED AS "PHASE 2 - NOT IN CONTRACT" 3. BUILDING FOUNDATION IN SHEET 1627-F-F079 (MENTIONED AS "VOID - SCARFING BAY DELETED")
<b>NOTES:</b>	

<b>OTHER EXCLUSIONS:</b>	<b>REBAR:</b>	Galvanized Rebars, stainless steel, or fiberglass Reinforcing; Grade 75 reinforcing, ASTM A706 (weldable) reinforcing, ASTM A934 epoxy coat after fabrication, added bars at openings not shown on structural drawings, spirals and spacers, precast reinforcing
	<b>ACCESSORIES:</b>	Concrete brick and/or accessories to support reinforcing bars and/or mesh on grade; rebar and/or accessories used as vertical wall spacers; all accessories associated with post tensioning; reinforcing steel and/or mesh for mud mats.
	<b>OTHERS:</b>	Dowel bar splicer sets (DB/DI), mechanical couplers, threaded reinforcing, tie rods, metal tags, tie wire, smooth round dowels, couplers welded to structural members, construction joint/expansion joint dowels, diamond dowels, rebar protection caps, and any items not specifically included.

**WEIGHT & ACCESSORIES REPORT**

**TOTAL WEIGHT BY BAR SIZE (BLACK - UNCOATED)**

BAR SIZE	WEIGHT
#4	3,59,003.06
#5	25,435.64
#6	32,270.53
#8	2,62,721.68
#9	17,75,224.71
#10	14,81,873.04
#11	12,85,783.19
<b>Total Weight (Lbs)</b>	<b>52,22,311.85</b>

**TOTAL WEIGHT BY BEND TYPE (BLACK - UNCOATED)**

BAR DIA/BEND TYPE	HB	LB	SL	ST	TOTAL
#4	1,11,941.50	2,25,442.41	17,915.76	3,703.39	3,59,003.06
#5	16,796.47	0.00	0.00	8,639.17	25,435.64
#6	5,757.25	0.00	9,913.20	16,600.08	32,270.53
#8	46,988.61	0.00	45,256.50	1,70,476.56	2,62,721.68
#9	2,53,404.93	0.00	4,74,198.00	10,47,621.78	17,75,224.71
#10	4,35,949.52	0.00	4,08,182.58	6,37,740.94	14,81,873.04
#11	53,044.99	0.00	7,27,137.18	5,05,601.02	12,85,783.19
				<b>Total Weight (Lbs)</b>	<b>52,22,311.85</b>

**ESTIMATED WEIGHT SUMMARY  
AM CALVERT MELT SHOP**

Project No: -

Bid Date: 03/16/2021

**A. Estimated Weight Summary By Element**

**1. Isolated Footing & Dowels**

CODE	103
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Sum of WEIGHT 'LBS'	BEND TYPE			
BAR SIZE	HB	SL	ST	Grand Total
4	103810.20	17795.52	3607.20	125212.92
5	16796.47		8639.17	25435.64
6	3987.81			3987.81
8	39646.65	45256.50	150585.33	235488.48
9	233832.64	392394.00	892240.56	1518467.20
10	409845.80	356546.58	607477.08	1373869.46
11	53044.99	727137.18	505601.02	1285783.19
<b>Grand Total</b>	<b>860964.57</b>	<b>1539129.78</b>	<b>2168150.36</b>	<b>4568244.71</b>

**2. Concrete Pier & Grade Beam Dowels**

CODE	109
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Sum of WEIGHT 'LBS'	BEND TYPE			
BAR SIZE	HB	LB	ST	Grand Total
4		192472.49	96.19	192568.69
6	381.50		5677.56	6059.06
9	19386.43		62536.66	81923.10
<b>Grand Total</b>	<b>19767.93</b>	<b>192472.49</b>	<b>68310.41</b>	<b>280550.84</b>

**3. Grade Beam**

CODE	106
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Sum of WEIGHT 'LBS'	BEND TYPE				
BAR SIZE	HB	LB	SL	ST	Grand Total
4	7263.34	32969.91			40233.25
6				9913.20	20835.72
9	185.86			81804.00	153026.81
<b>Grand Total</b>	<b>7449.20</b>	<b>32969.91</b>	<b>91717.20</b>	<b>81959.47</b>	<b>214095.78</b>

**4. Scrap Pit**

CODE	186
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Sum of WEIGHT 'LBS'	BEND TYPE			
BAR SIZE	HB	SL	ST	Grand Total
4	867.96	120.24		988.20
6	1387.95			1387.95
8	7341.97		19891.23	27233.20
9			21807.60	21807.60
10	26103.72	51636.00	30263.86	108003.58
<b>Grand Total</b>	<b>35701.59</b>	<b>51756.24</b>	<b>71962.69</b>	<b>159420.52</b>

**ESTIMATED WEIGHT SUMMARY  
AM CALVERT MELT SHOP**

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**B. Estimated Weight Summary Total**

CODE	(All)
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Sum of WEIGHT 'LBS'	BEND TYPE					
BAR SIZE	HB	LB	SL	ST	Grand Total	
4	111941.50	225442.41	17915.76	3703.39	359003.06	
5	16796.47			8639.17	25435.64	
6	5757.25		9913.20	16600.08	32270.53	
8	46988.61		45256.50	170476.56	262721.68	
9	253404.93		474198.00	1047621.78	1775224.71	
10	435949.52		408182.58	637740.94	1481873.04	
11	53044.99		727137.18	505601.02	1285783.19	
<b>Grand Total</b>	<b>923883.28</b>	<b>225442.41</b>	<b>1682603.22</b>	<b>2390382.94</b>	<b>5222311.85</b>	

*Kestrels Rebar*

**ESTIMATED TAKEOFF  
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LINE	CODE	ELEMENTS	MULTI	QTY	BAR SIZE	LENGTH 'FT'	BEND TYPE	REMARKS	WEIGHT 'LBS'
1		<b>FOUNDATION</b>							
2		<b>MK F-1</b>							
3		REF:1627-F-F016							
4		ISOLATED FOOTING							
5		49'-0"X34'-0"X7'-0"							
6	103		6	82	11	30.00	SL	#11 @5" LW BOT.	78419.88
7	103		6	82	11	25.00	ST	#11 @5" LW BOT.	65349.90
8	103		6	60	11	33.50	ST	#11 @10" SW BOT.	64074.78
9	103		6	35	9	30.00	SL	#9 @12" LW TOP	21420.00
10	103		6	35	9	25.33	ST	#9 @12" LW TOP	18087.76
11	103		6	50	9	33.50	ST	#9 @12" SW TOP	34170.00
12	103		6	12	4	30.00	SL	2-#4 CONT.	1442.88
13	103		24	2	4	4.83	HB	2-#4 COR.	155.00
14	103		6	166	4	11.00	HB	#4 @12" C BARS	7318.61
15		<b>CONCRETE PIER</b>							
16		19'-1 1/2"X8'-0"X5'-0"							
17	103		6	90	10	12.83	HB	90-#10 D/V	29819.02
18	109		6	7	4	62.67	LB	#4 @12" TIES	1758.16
19	109		36	7	4	19.58	LB	#4 @12" LINKS LW	3296.52
20	109		90	7	4	8.42	LB	#4 @12" LINKS SW	3541.79
21	103		24	12	11	13.00	HB	12-#11 D/V (4 PLACE)	19891.87
22	109		24	7	4	11.08	LB	#4 @12" TIES (4 PLACE)	1243.89
23	109		24	7	4	6.75	LB	#4 @12" TIES (4 PLACE)	757.51
24									
25		<b>MK F-3</b>							
26		REF:1627-F-F018							
27		ISOLATED FOOTING							
28		40'-0"X34'-0"X6'-0"							
29	103			68	9	30.00	SL	#9 @6" LW BOT.	6936.00
30	103			68	9	14.75	ST	#9 @6" LW BOT.	3410.20
31	103			80	9	33.50	ST	#9 @6" SW BOT.	9112.00
32	103			35	8	30.00	SL	#8 @12" LW TOP	2803.50
33	103			35	8	15.50	ST	#8 @12" LW TOP	1448.48
34	103			41	8	33.50	ST	#8 @12" SW TOP	3667.25
35	103			11	4	30.00	SL	2-#4 CONT.	220.44
36	103		4	2	4	4.83	HB	2-#4 COR.	25.83
37	103			148	4	10.00	HB	#4 @12" C BARS	988.64
38		<b>CONCRETE PIER</b>							
39		19'-1 1/2"X16'-0"X6'-0"							
40	103	SECTION B-B		114	10	12.83	HB	114-#10 D/V	6295.13
41	109			8	4	78.67	LB	#4 @12" TIES	420.39
42	109		13	8	4	19.58	LB	#4 @12" LINKS LW	1360.47
43	109		15	8	4	16.42	LB	#4 @12" LINKS SW	1315.91
44	103		8	12	11	13.00	HB	12-#11 D/V (8 PLACE)	6630.62
45	109		4	8	4	11.08	LB	#4 @12" TIES (4 PLACE)	236.93
46	109		4	8	4	6.75	LB	#4 @12" TIES (4 PLACE)	144.29
47	109		4	8	4	10.08	LB	#4 @12" TIES (4 PLACE)	215.56
48	109		4	8	4	5.75	LB	#4 @12" TIES (4 PLACE)	122.91
49		5'-4"X3'-0"X6'-0"							
50	103	SECTION D-D		28	8	12.33	HB	28-#8 D/V	922.02

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51	109			8	4	16.08	LB	#4 @12" TIES	85.93
52	109		2	8	4	5.75	LB	#4 @12" LINKS LW	61.45
53	109		4	8	4	3.42	LB	#4 @12" LINKS SW	73.02
54									
55		<b>MK F-5</b>							
56		REF:1627-F-F020							
57		ISOLATED FOOTING							
58		64'-0"X34'-0"X7'-0"							
59	103		2	68	11	30.00	SL	#11 @6" LW BOT.	21677.04
60	103			68	11	16.50	ST	#11 @6" LW BOT.	5961.19
61	103			65	10	33.50	ST	#10 @12" SW BOT.	9369.78
62	103		2	35	9	30.00	SL	#9 @12" LW TOP	7140.00
63	103			35	9	17.17	ST	#9 @12" LW TOP	2042.75
64	103			65	9	33.50	ST	#9 @12" SW TOP	7403.50
65	103			14	4	30.00	SL	2-#4 CONT.	280.56
66	103		4	2	4	4.83	HB	2-#4 COR.	25.83
67	103			196	4	11.00	HB	#4 @12" C BARS	1440.21
68		CONCRETE PIER							
69		32'-3"X13'-0"X5'-0"							
70	103			148	10	12.83	HB	148-#10 D/V	8172.62
71	109			7	4	98.67	LB	#4 @12" TIES	461.36
72	109		8	7	4	32.58	LB	#4 @12" LINKS LW	1218.86
73	109		26	7	4	13.42	LB	#4 @12" LINKS SW	1631.06
74	103		8	12	10	12.83	HB	12-#10 D/V (8 PLACE)	5301.16
75	109		4	7	4	12.58	LB	#4 @12" TIES (4 PLACE)	235.37
76	109		4	7	4	8.25	LB	#4 @12" TIES (4 PLACE)	154.31
77	109		4	7	4	10.08	LB	#4 @12" TIES (4 PLACE)	188.61
78	109		4	7	4	5.75	LB	#4 @12" TIES (4 PLACE)	107.55
79									
80		<b>MK F-6</b>							
81		REF:1627-F-F021							
82		ISOLATED FOOTING							
83		64'-0"X34'-0"X7'-0"							
84	103		2	68	11	30.00	SL	#11 @6" LW BOT.	21677.04
85	103			68	11	16.50	ST	#11 @6" LW BOT.	5961.19
86	103			128	9	33.50	ST	#9 @6" SW BOT.	14579.20
87	103		2	35	9	30.00	SL	#9 @12" LW TOP	7140.00
88	103			35	9	17.17	ST	#9 @12" LW TOP	2042.75
89	103			65	9	33.50	ST	#9 @12" SW TOP	7403.50
90	103			14	4	30.00	SL	2-#4 CONT.	280.56
91	103		4	2	4	4.83	HB	2-#4 COR.	25.83
92	103			196	4	11.00	HB	#4 @12" C BARS	1440.21
93		CONCRETE PIER							
94		32'-3"X16'-0"X5'-0"							
95	103			158	10	12.83	HB	158-#10 D/V	8724.82
96	109			7	4	104.67	LB	#4 @12" TIES	489.42
97	109		12	7	4	32.58	LB	#4 @12" LINKS LW	1828.30
98	109		26	7	4	16.42	LB	#4 @12" LINKS SW	1995.79
99	103		8	12	10	12.83	HB	12-#10 D/V (8 PLACE)	5301.16
100	109		4	7	4	11.08	LB	#4 @12" TIES (4 PLACE)	207.32

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LINE	CODE	ELEMENTS	MULTI	QTY	BAR SIZE	LENGTH 'FT'	BEND TYPE	REMARKS	WEIGHT 'LBS'
101	109		4	7	4	6.75	LB	#4 @12" TIES (4 PLACE)	126.25
102	109		4	7	4	10.08	LB	#4 @12" TIES (4 PLACE)	188.61
103	109		4	7	4	5.75	LB	#4 @12" TIES (4 PLACE)	107.55
104		REF:1627-F-F041							
105		5'-4"X3'-0"X5'-0"							
106	103	SECTION D-D		28	8	12.33	HB	28-#8 D/V	922.02
107	109			8	4	16.08	LB	#4 @12" TIES	85.93
108	109		2	8	4	5.75	LB	#4 @12" LINKS LW	61.45
109	109		4	8	4	3.42	LB	#4 @12" LINKS SW	73.02
110									
111		<b>MK F-8</b>							
112		REF:1627-F-F023							
113		ISOLATED FOOTING							
114		52'-0"X34'-0"X6'-0"							
115	103			82	10	30.00	SL	#10 @5" LW BOT.	10585.38
116	103			82	10	27.33	ST	#10 @5" LW BOT.	9644.34
117	103			53	10	33.50	ST	#10 @12" SW BOT.	7639.98
118	103			35	8	30.00	SL	#8 @12" LW TOP	2803.50
119	103			35	8	27.50	ST	#8 @12" LW TOP	2569.88
120	103			53	8	33.50	ST	#8 @12" SW TOP	4740.59
121	103			13	4	30.00	SL	2-#4 CONT.	260.52
122	103		4	2	4	4.83	HB	2-#4 COR.	25.83
123	103			172	4	10.00	HB	#4 @12" C BARS	1148.96
124		CONCRETE PIER							
125		20'-9 1/4"X8'-0"X6'-0"							
126	103			94	10	12.83	HB	94-#10 D/V	5190.72
127	109			8	4	65.83	LB	#4 @12" TIES	351.81
128	109		6	8	4	21.17	LB	#4 @12" LINKS LW	678.67
129	109		16	8	4	8.42	LB	#4 @12" LINKS SW	719.60
130	103		4	12	10	12.83	HB	12-#10 D/V (4 PLACE)	2650.58
131	109		4	8	4	11.08	LB	#4 @12" TIES (4 PLACE)	236.93
132	109		4	8	4	6.75	LB	#4 @12" TIES (4 PLACE)	144.29
133									
134		<b>MK F-9</b>							
135		REF:1627-F-F024							
136		ISOLATED FOOTING							
137		44'-0"X24'-0"X6'-0"							
138	103		2	48	10	30.00	SL	#10 @6" LW BOT.	12392.64
139	103		2	48	10	19.33	ST	#10 @6" LW BOT.	7986.23
140	103		2	45	10	23.50	ST	#10 @12" SW BOT.	9100.85
141	103		2	25	9	30.00	SL	#9 @12" LW TOP	5100.00
142	103		2	25	9	20.33	ST	#9 @12" LW TOP	3456.61
143	103		2	45	9	23.50	ST	#9 @12" SW TOP	7191.00
144	103		2	6	4	30.00	SL	2-#4 CONT.	240.48
145	103		2	4	4	30.00	ST	2-#4 CONT.	160.32
146	103		8	2	4	4.83	HB	2-#4 COR.	51.67
147	103		2	136	4	10.00	HB	#4 @12" C BARS	1816.96
148		CONCRETE PIER							
149		18'-0"X6'-0"X6'-0"							
150	103		2	80	9	12.58	HB	80-#9 D/V	6845.15

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151	109		2	8	4	56.33	LB	#4 @12" TIES	602.08
152	109		8	8	4	18.42	LB	#4 @12" LINKS LW	787.32
153	109		28	8	4	6.42	LB	#4 @12" LINKS SW	960.04
154	103		8	12	9	12.58	HB	12-#9 D/V (4 PLACE)	4107.09
155	109		8	8	4	10.08	LB	#4 @12" TIES (4 PLACE)	431.11
156	109		8	8	4	5.75	LB	#4 @12" TIES (4 PLACE)	245.82
157									
158		<b>MK F-10</b>							
159		REF:1627-F-F025							
160		ISOLATED FOOTING							
161		44'-0"X20'-0"X6'-0"							
162	103			40	11	30.00	SL	#11 @6" LW BOT.	6375.60
163	103			40	11	20.00	ST	#11 @6" LW BOT.	4250.40
164	103			45	10	19.50	ST	#10 @12" SW BOT.	3775.88
165	103			21	9	30.00	SL	#9 @12" LW TOP	2142.00
166	103			21	9	20.33	ST	#9 @12" LW TOP	1451.78
167	103			45	9	19.50	ST	#9 @12" SW TOP	2983.50
168	103			6	4	30.00	SL	2-#4 CONT.	120.24
169	103			3	4	30.00	ST	2-#4 CONT.	60.12
170	103		4	2	4	4.83	HB	2-#4 COR.	25.83
171	103			128	4	10.00	HB	#4 @12" C BARS	855.04
172		CONCRETE PIER							
173		18'-0"X6'-0"X6'-0"							
174	103			80	9	12.58	HB	80-#9 D/V	3422.58
175	109			8	4	56.33	LB	#4 @12" TIES	301.04
176	109		4	8	4	18.42	LB	#4 @12" LINKS LW	393.66
177	109		14	8	4	6.42	LB	#4 @12" LINKS SW	480.02
178	103		4	12	9	12.58	HB	12-#9 D/V (4 PLACE)	2053.55
179	109		4	8	4	10.08	LB	#4 @12" TIES (4 PLACE)	215.56
180	109		4	8	4	5.75	LB	#4 @12" TIES (4 PLACE)	122.91
181									
182		<b>MK F-11</b>							
183		REF:1627-F-F026							
184		ISOLATED FOOTING							
185		40'-0"X24'-0"X6'-0"							
186	103			48	9	30.00	SL	#9 @6" LW BOT.	4896.00
187	103			48	9	14.75	ST	#9 @6" LW BOT.	2407.20
188	103			80	8	23.50	ST	#8 @6" SW BOT.	5019.60
189	103			25	8	30.00	SL	#8 @12" LW TOP	2002.50
190	103			25	8	15.50	ST	#8 @12" LW TOP	1034.63
191	103			41	8	23.50	ST	#8 @12" SW TOP	2572.55
192	103			6	4	30.00	SL	2-#4 CONT.	120.24
193	103			4	4	30.00	ST	2-#4 CONT.	80.16
194	103		4	2	4	4.83	HB	2-#4 COR.	25.83
195	103			128	4	10.00	HB	#4 @12" C BARS	855.04
196		CONCRETE PIER							
197		18'-0"X6'-0"X6'-0"							
198	103			80	9	12.58	HB	80-#9 D/V	3422.58
199	109			8	4	56.33	LB	#4 @12" TIES	301.04
200	109		4	8	4	18.42	LB	#4 @12" LINKS LW	393.66

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LINE	CODE	ELEMENTS	MULTI	QTY	BAR SIZE	LENGTH 'FT'	BEND TYPE	REMARKS	WEIGHT 'LBS'
201	109		14	8	4	6.42	LB	#4 @12" LINKS SW	480.02
202	103		4	12	9	12.58	HB	12-#9 D/V (4 PLACE)	2053.55
203	109		4	8	4	10.08	LB	#4 @12" TIES (4 PLACE)	215.56
204	109		4	8	4	5.75	LB	#4 @12" TIES (4 PLACE)	122.91
205		7'-8"X3'-0"X6'-0"							
206	103			33	9	12.58	HB	33-#9 D/V	1411.81
207	109			8	4	21.41	LB	#4 @12" TIES	114.44
208	109		1	8	4	8.42	LB	#4 @12" LINKS LW	44.98
209	109		7	8	4	3.42	LB	#4 @12" LINKS SW	127.79
210									
211		<b>MK F-12</b>							
212		REF:1627-F-F027							
213		ISOLATED FOOTING							
214		24'-0"X20'-0"X6'-0"							
215	103			21	10	23.50	ST	#10 @12" LW BOT.	2123.53
216	103			25	9	19.50	ST	#9 @12" SW BOT.	1657.50
217	103			21	9	23.50	ST	#9 @12" LW TOP	1677.90
218	103			25	9	19.50	ST	#9 @12" SW TOP	1657.50
219	103			6	4	30.00	ST	2-#4 CONT.	120.24
220	103		4	2	4	4.83	HB	2-#4 COR.	25.83
221	103			88	4	10.00	HB	#4 @12" C BARS	587.84
222		CONCRETE PIER							
223		12'-9"X6'-0"X2'-0"							
224	103			62	9	8.58	HB	62-#9 D/V	1809.30
225	109			4	4	45.83	LB	#4 @12" TIES	122.46
226	109		4	4	4	13.17	LB	#4 @12" LINKS LW	140.72
227	109		10	4	4	6.42	LB	#4 @12" LINKS SW	171.44
228	103		4	12	9	8.58	HB	12-#9 D/V (4 PLACE)	1400.75
229	109		4	4	4	10.08	LB	#4 @12" TIES (4 PLACE)	107.78
230	109		4	4	4	5.75	LB	#4 @12" TIES (4 PLACE)	61.46
231									
232		<b>MK F-13</b>							
233		REF:1627-F-F028							
234		ISOLATED FOOTING							
235		16'-0"X6'-0"X6'-0"							
236	103		2	12	10	15.50	ST	12-#10 LW BOT.	1600.72
237	103		2	17	5	5.50	ST	#5 @12" SW BOT.	195.04
238	103		2	6	10	15.50	ST	6-#10 LW TOP	800.36
239	103		2	17	5	5.50	ST	#5 @12" SW TOP	195.04
240	103		2	2	5	32.00	ST	2-#5 CONT.	133.50
241	103		2	2	5	24.00	HB	2-#5 CONT.	100.13
242	103		2	44	5	10.00	HB	#5 @12" C BARS	917.84
243		CONCRETE PIER							
244		5'-6"X3'-0"X6'-0"							
245	103	SECTION B-B	2	28	8	12.33	HB	28-#8 D/V	1844.03
246	109		2	8	4	16.41	LB	#4 @12" TIES	175.43
247	109		4	8	4	5.92	LB	#4 @12" LINKS LW	126.46
248	109		8	8	4	3.42	LB	#4 @12" LINKS SW	146.04
249									
250		<b>MK F-14</b>							



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LINE	CODE	ELEMENTS	MULTI	QTY	BAR SIZE	LENGTH 'FT'	BEND TYPE	REMARKS	WEIGHT 'LBS'
251		REF:1627-F-F029							
252		ISOLATED FOOTING							
253		52'-0"X34'-0"X7'-0"							
254	103			68	11	30.00	SL	#11 @6" LW BOT.	10838.52
255	103			68	11	28.00	ST	#11 @6" LW BOT.	10115.95
256	103			104	10	33.50	ST	#10 @6" SW BOT.	14991.65
257	103			35	9	30.00	SL	#9 @12" LW TOP	3570.00
258	103			35	9	28.33	ST	#9 @12" LW TOP	3371.63
259	103			53	9	30.00	SL	#9 @12" SW TOP	5406.00
260	103			53	9	10.33	ST	#9 @12" SW TOP	1862.01
261	103			13	4	30.00	SL	2-#4 CONT.	260.52
262	103		4	2	4	4.83	HB	2-#4 COR.	25.83
263	103			172	4	11.00	HB	#4 @12" C BARS	1263.86
264		CONCRETE PIER							
265		20'-9 1/4"X8'-0"X5'-0"							
266	103			94	10	12.83	HB	94-#10 D/V	5190.72
267	109			7	4	65.83	LB	#4 @12" TIES	307.83
268	109		6	7	4	21.17	LB	#4 @12" LINKS LW	593.83
269	109		16	7	4	8.42	LB	#4 @12" LINKS SW	629.65
270	103		4	12	10	12.83	HB	12-#10 D/V (4 PLACE)	2650.58
271	109		4	7	4	11.08	LB	#4 @12" TIES (4 PLACE)	207.32
272	109		4	7	4	6.75	LB	#4 @12" TIES (4 PLACE)	126.25
273		6'-8"X3'-0"X5'-0"							
274	103			29	10	12.83	HB	29-#10 D/V	1601.39
275	109			7	4	19.41	LB	#4 @12" TIES	90.78
276	109		6	7	4	3.42	LB	#4 @12" LINKS SW	95.84
277		REF:1627-F-F018							
278		5'-4"X3'-0"X5'-0"							
279	103	SECTION D-D	2	28	8	12.33	HB	28-#8 D/V	1844.03
280	109		2	7	4	16.08	LB	#4 @12" TIES	150.38
281	109		4	7	4	5.75	LB	#4 @12" LINKS LW	107.53
282	109		8	7	4	3.42	LB	#4 @12" LINKS SW	127.79
283									
284		<b>MK F-15</b>							
285		REF:1627-F-F030							
286		ISOLATED FOOTING							
287		54'-0"X34'-0"X7'-0"							
288	103		2	68	10	30.00	SL	#10 @6" LW BOT. (2 LAYER)	17556.24
289	103		2	68	10	29.33	ST	#10 @6" LW BOT. (2 LAYER)	17165.91
290	103		2	55	8	33.50	ST	#8 @12" SW BOT. (2 LAYER)	9838.95
291	103			35	9	30.00	SL	#9 @12" LW TOP	3570.00
292	103			35	9	30.33	ST	#9 @12" LW TOP	3609.63
293	103			55	9	33.50	ST	#9 @12" SW TOP	6264.50
294	103			13	4	30.00	SL	2-#4 CONT.	260.52
295	103		4	2	4	4.83	HB	2-#4 COR.	25.83
296	103			176	4	11.00	HB	#4 @12" C BARS	1293.25
297	103			126	6	5.00	HB	#6 STANDEE	946.26
298		CONCRETE PIER							
299		19'-1 1/2"X13'-0"X5'-0"							
300	103	SECTION B-B		104	10	12.83	HB	104-#10 D/V	5742.92

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LINE	CODE	ELEMENTS	MULTI	QTY	BAR SIZE	LENGTH 'FT'	BEND TYPE	REMARKS	WEIGHT 'LBS'
301	109			7	4	72.67	LB	#4 @12" TIES	339.79
302	109		10	7	4	19.58	LB	#4 @12" LINKS LW	915.70
303	109		15	7	4	13.42	LB	#4 @12" LINKS SW	941.00
304	103		8	12	11	13.00	HB	12-#11 D/V (8 PLACE)	6630.62
305	109		4	7	4	12.42	LB	#4 @12" TIES (4 PLACE)	232.27
306	109		4	7	4	8.08	LB	#4 @12" TIES (4 PLACE)	151.20
307	109		4	7	4	10.08	LB	#4 @12" TIES (4 PLACE)	188.61
308	109		4	7	4	5.75	LB	#4 @12" TIES (4 PLACE)	107.55
309									
310		<b>MK F-17</b>							
311		REF:1627-F-F032							
312		ISOLATED FOOTING							
313		52'-0"X34'-0"X7'-0"							
314	103		5	68	11	30.00	SL	#11 @6" LW BOT.	54192.60
315	103		5	68	11	28.00	ST	#11 @6" LW BOT.	50579.76
316	103		5	53	10	33.50	ST	#10 @12" SW BOT.	38199.88
317	103		5	35	9	30.00	SL	#9 @12" LW TOP	17850.00
318	103		5	35	9	28.33	ST	#9 @12" LW TOP	16858.14
319	103		5	53	9	33.50	ST	#9 @12" SW TOP	30183.50
320	103		5	13	4	30.00	SL	2-#4 CONT.	1302.60
321	103		20	2	4	4.83	HB	2-#4 COR.	129.16
322	103		5	172	4	11.00	HB	#4 @12" C BARS	6319.28
323		CONCRETE PIER							
324		19'-1 1/2"X8'-0"X5'-0"							
325	103		5	90	10	12.83	HB	90-#10 D/V	24849.18
326	109		5	7	4	62.67	LB	#4 @12" TIES	1465.13
327	109		30	7	4	19.58	LB	#4 @12" LINKS LW	2747.10
328	109		75	7	4	8.42	LB	#4 @12" LINKS SW	2951.49
329	103		20	12	11	13.00	HB	12-#11 D/V (4 PLACE)	16576.56
330	109		20	7	4	11.08	LB	#4 @12" TIES (4 PLACE)	1036.58
331	109		20	7	4	6.75	LB	#4 @12" TIES (4 PLACE)	631.26
332									
333		<b>MK F-18</b>							
334		REF:1627-F-F033							
335		ISOLATED FOOTING							
336		24'-0"X24'-0"X6'-0"							
337	103		4	30	10	23.50	ST	#10 @10" LW BOT.	12134.46
338	103		4	25	10	23.50	ST	#10 @12" SW BOT.	10112.05
339	103		4	25	9	23.50	ST	#9 @12" LW TOP	7990.00
340	103		4	25	9	23.50	ST	#9 @12" SW TOP	7990.00
341	103		4	7	4	30.00	ST	2-#4 CONT.	561.12
342	103		16	2	4	4.83	HB	2-#4 COR.	103.33
343	103		4	96	4	10.00	HB	#4 @12" C BARS	2565.12
344		CONCRETE PIER							
345		12'-9"X6'-0"X6'-0"							
346	103		4	62	9	12.58	HB	62-#9 D/V	10609.99
347	109		4	8	4	45.83	LB	#4 @12" TIES	979.70
348	109		16	8	4	13.17	LB	#4 @12" LINKS LW	1125.75
349	109		40	8	4	6.42	LB	#4 @12" LINKS SW	1371.48
350	103		16	12	9	12.58	HB	12-#9 D/V (4 PLACE)	8214.18

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LINE	CODE	ELEMENTS	MULTI	QTY	BAR SIZE	LENGTH 'FT'	BEND TYPE	REMARKS	WEIGHT 'LBS'
351	109		16	8	4	10.08	LB	#4 @12" TIES (4 PLACE)	862.22
352	109		16	8	4	5.75	LB	#4 @12" TIES (4 PLACE)	491.65
353									
354		<b>MK F-20</b>							
355		REF:1627-F-F035							
356		ISOLATED FOOTING							
357		28'-0"X24'-0"X6'-0"							
358	103			25	9	27.50	ST	#9 @12" LW BOT.	2337.50
359	103			29	9	23.50	ST	#9 @12" SW BOT.	2317.10
360	103			25	8	27.50	ST	#8 @12" LW TOP	1835.63
361	103			29	8	23.50	ST	#8 @12" SW TOP	1819.61
362	103			7	4	30.00	ST	2-#4 CONT.	140.28
363	103		4	2	4	4.83	HB	2-#4 COR.	25.83
364	103			104	4	10.00	HB	#4 @12" C BARS	694.72
365		CONCRETE PIER							
366		12'-9"X6'-0"X6'-0"							
367	103			62	9	12.58	HB	62-#9 D/V	2652.50
368	109			8	4	45.83	LB	#4 @12" TIES	244.93
369	109		4	8	4	13.17	LB	#4 @12" LINKS LW	281.44
370	109		10	8	4	6.42	LB	#4 @12" LINKS SW	342.87
371	103		4	12	9	12.58	HB	12-#9 D/V (4 PLACE)	2053.55
372	109		4	8	4	10.08	LB	#4 @12" TIES (4 PLACE)	215.56
373	109		4	8	4	5.75	LB	#4 @12" TIES (4 PLACE)	122.91
374									
375		<b>MK F-21</b>							
376		REF:1627-F-F036							
377		ISOLATED FOOTING							
378		52'-0"X34'-0"X7'-0"							
379	103			68	10	30.00	SL	#10 @6" LW BOT.	8778.12
380	103			68	10	27.33	ST	#10 @6" LW BOT.	7997.75
381	103			104	10	33.50	ST	#10 @6" SW BOT.	14991.65
382	103			35	9	30.00	SL	#9 @12" LW TOP	3570.00
383	103			35	9	28.33	ST	#9 @12" LW TOP	3371.63
384	103			53	9	33.50	ST	#9 @12" SW TOP	6036.70
385	103			13	4	30.00	SL	2-#4 CONT.	260.52
386	103		4	2	4	4.83	HB	2-#4 COR.	25.83
387	103			172	4	11.00	HB	#4 @12" C BARS	1263.86
388		CONCRETE PIER							
389		18'-0"X6'-0"X5'-0"							
390	103			80	9	12.58	HB	80-#9 D/V	3422.58
391	109			7	4	56.33	LB	#4 @12" TIES	263.41
392	109		4	7	4	18.42	LB	#4 @12" LINKS LW	344.45
393	109		14	7	4	6.42	LB	#4 @12" LINKS SW	420.02
394	103		4	12	9	12.58	HB	12-#9 D/V (4 PLACE)	2053.55
395	109		4	7	4	10.08	LB	#4 @12" TIES (4 PLACE)	188.61
396	109		4	7	4	5.75	LB	#4 @12" TIES (4 PLACE)	107.55
397									
398		<b>MK F-22</b>							
399		REF:1627-F-F037							
400		ISOLATED FOOTING							

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LINE	CODE	ELEMENTS	MULTI	QTY	BAR SIZE	LENGTH 'FT'	BEND TYPE	REMARKS	WEIGHT 'LBS'
401		52'-0"X24'-0"X7'-0"							
402	103			48	9	30.00	SL	#9 @6" LW BOT.	4896.00
403	103			48	9	26.75	ST	#9 @6" LW BOT.	4365.60
404	103			53	9	23.50	ST	#9 @12" SW BOT.	4234.70
405	103			25	9	30.00	SL	#9 @12" LW TOP	2550.00
406	103			25	9	28.33	ST	#9 @12" LW TOP	2408.31
407	103			53	9	23.50	ST	#9 @12" SW TOP	4234.70
408	103			8	4	30.00	SL	2-#4 CONT.	160.32
409	103			4	4	30.00	ST	2-#4 CONT.	80.16
410	103		4	2	4	4.83	HB	2-#4 COR.	25.83
411	103			152	4	11.00	HB	#4 @12" C BARS	1116.90
412		CONCRETE PIER							
413		18'-0"X11'-0"X5'-0"							
414	103			98	10	12.83	HB	98-#10 D/V	5411.60
415	109			7	4	66.33	LB	#4 @12" TIES	310.17
416	109		8	7	4	18.42	LB	#4 @12" LINKS LW	688.91
417	109		14	7	4	11.42	LB	#4 @12" LINKS SW	747.34
418	103		8	12	10	12.83	HB	12-#10 D/V (8 PLACE)	5301.16
419	109		4	7	4	11.08	LB	#4 @12" TIES (4 PLACE)	207.32
420	109		4	7	4	6.75	LB	#4 @12" TIES (4 PLACE)	126.25
421	109		4	7	4	10.08	LB	#4 @12" TIES (4 PLACE)	188.61
422	109		4	7	4	5.75	LB	#4 @12" TIES (4 PLACE)	107.55
423									
424		<b>MK F-23</b>							
425		REF:1627-F-F038							
426		ISOLATED FOOTING							
427		34'-0"X24'-0"X6'-0"							
428	103		2	25	11	33.50	ST	#11 @12" LW BOT.	8899.28
429	103		2	35	9	23.50	ST	#9 @12" SW BOT.	5593.00
430	103		2	25	9	33.50	ST	#9 @12" LW TOP	5695.00
431	103		2	35	9	23.50	ST	#9 @12" SW TOP	5593.00
432	103		2	5	4	30.00	SL	2-#4 CONT.	200.40
433	103		2	4	4	30.00	ST	2-#4 CONT.	160.32
434	103		8	2	4	4.83	HB	2-#4 COR.	51.67
435	103		2	116	4	10.00	HB	#4 @12" C BARS	1549.76
436		CONCRETE PIER							
437		12'-9"X6'-0"X6'-0"							
438	103		2	62	9	12.58	HB	62-#9 D/V	5304.99
439	109		2	8	4	45.83	LB	#4 @12" TIES	489.85
440	109		8	8	4	13.17	LB	#4 @12" LINKS LW	562.87
441	109		20	8	4	6.42	LB	#4 @12" LINKS SW	685.74
442	103		8	12	9	12.58	HB	12-#9 D/V (4 PLACE)	4107.09
443	109		8	8	4	10.08	LB	#4 @12" TIES (4 PLACE)	431.11
444	109		8	8	4	5.75	LB	#4 @12" TIES (4 PLACE)	245.82
445									
446		<b>MK F-26</b>							
447		REF:1627-F-F040							
448		ISOLATED FOOTING							
449		44'-0"X24'-0"X6'-0"							
450	103		4	48	11	30.00	SL	#11 @6" LW BOT.	30602.88

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LINE	CODE	ELEMENTS	MULTI	QTY	BAR SIZE	LENGTH 'FT'	BEND TYPE	REMARKS	WEIGHT 'LBS'
451	103		4	48	11	20.00	ST	#11 @6" LW BOT.	20401.92
452	103		4	45	11	23.50	ST	#11 @12" SW BOT.	22473.99
453	103		4	25	9	30.00	SL	#9 @12" LW TOP	10200.00
454	103		4	25	9	20.33	ST	#9 @12" LW TOP	6913.22
455	103		4	45	9	23.50	ST	#9 @12" SW TOP	14382.00
456	103		4	7	4	30.00	SL	2-#4 CONT.	561.12
457	103		4	3	4	30.00	ST	2-#4 CONT.	240.48
458	103		16	2	4	4.83	HB	2-#4 COR.	103.33
459	103		4	136	4	10.00	HB	#4 @12" C BARS	3633.92
460		CONCRETE PIER							
461		18'-0"X6'-0"X6'-0"							
462	103		4	80	9	12.58	HB	80-#9 D/V	13690.30
463	109		4	8	4	56.33	LB	#4 @12" TIES	1204.15
464	109		16	8	4	18.42	LB	#4 @12" LINKS LW	1574.64
465	109		56	8	4	6.42	LB	#4 @12" LINKS SW	1920.08
466	103		16	12	9	12.58	HB	12-#9 D/V (4 PLACE)	8214.18
467	109		16	8	4	10.08	LB	#4 @12" TIES (4 PLACE)	862.22
468	109		16	8	4	5.75	LB	#4 @12" TIES (4 PLACE)	491.65
469									
470		<b>MK F-27</b>							
471		REF:1627-F-F041							
472		ISOLATED FOOTING							
473		52'-0"X34'-0"X6'-0"							
474	103			82	11	30.00	SL	#11 @5" LW BOT.	13069.98
475	103			82	11	28.00	ST	#11 @5" LW BOT.	12198.65
476	103			104	8	33.50	ST	#8 @6" SW BOT.	9302.28
477	103			35	8	30.00	SL	#8 @12" LW TOP	2803.50
478	103			35	8	27.50	ST	#8 @12" LW TOP	2569.88
479	103			53	8	33.50	ST	#8 @12" SW TOP	4740.59
480	103			13	4	30.00	SL	2-#4 CONT.	260.52
481	103		4	2	4	4.83	HB	2-#4 COR.	25.83
482	103			172	4	10.00	HB	#4 @12" C BARS	1148.96
483		CONCRETE PIER							
484		18'-0"X6'-0"X6'-0"							
485	103			80	9	12.58	HB	80-#9 D/V	3422.58
486	109			8	4	56.33	LB	#4 @12" TIES	301.04
487	109		4	8	4	18.42	LB	#4 @12" LINKS LW	393.66
488	109		14	8	4	6.42	LB	#4 @12" LINKS SW	480.02
489	103		4	12	9	12.58	HB	12-#9 D/V (4 PLACE)	2053.55
490	109		4	8	4	10.08	LB	#4 @12" TIES (4 PLACE)	215.56
491	109		4	8	4	5.75	LB	#4 @12" TIES (4 PLACE)	122.91
492		7'-8"X3'-0"X6'-0"							
493	103			33	9	12.58	HB	33-#9 D/V	1411.81
494	109			8	4	21.41	LB	#4 @12" TIES	114.44
495	109		1	8	4	8.42	LB	#4 @12" LINKS LW	44.98
496	109		7	8	4	3.42	LB	#4 @12" LINKS SW	127.79
497		5'-4"X3'-0"X6'-0"							
498	103	SECTION D-D		28	8	12.33	HB	28-#8 D/V	922.02
499	109			8	4	16.08	LB	#4 @12" TIES	85.93
500	109		2	8	4	5.75	LB	#4 @12" LINKS LW	61.45

**ESTIMATED TAKEOFF  
AM CALVERT MELT SHOP**

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LINE	CODE	ELEMENTS	MULTI	QTY	BAR SIZE	LENGTH 'FT'	BEND TYPE	REMARKS	WEIGHT 'LBS'
501	109		4	8	4	3.42	LB	#4 @12" LINKS SW	73.02
502									
503		<b>MK F-28</b>							
504		REF:1627-F-F042							
505		ISOLATED FOOTING							
506		52'-0"X34'-0"X7'-0"							
507	103			82	10	30.00	SL	#10 @5" LW BOT.	10585.38
508	103			82	10	27.33	ST	#10 @5" LW BOT.	9644.34
509	103			53	10	33.50	ST	#10 @12" SW BOT.	7639.98
510	103			35	9	30.00	SL	#9 @12" LW TOP	3570.00
511	103			35	9	28.33	ST	#9 @12" LW TOP	3371.63
512	103			53	9	33.50	ST	#9 @12" SW TOP	6036.70
513	103			13	4	30.00	SL	2-#4 CONT.	260.52
514	103		4	2	4	4.83	HB	2-#4 COR.	25.83
515	103			172	4	11.00	HB	#4 @12" C BARS	1263.86
516		CONCRETE PIER							
517		18'-0"X11'-0"X5'-0"							
518	103			98	10	12.83	HB	98-#10 D/V	5411.60
519	109			7	4	66.33	LB	#4 @12" TIES	310.17
520	109		8	7	4	18.42	LB	#4 @12" LINKS LW	688.91
521	109		14	7	4	11.42	LB	#4 @12" LINKS SW	747.34
522	103		8	12	10	12.83	HB	12-#10 D/V (8 PLACE)	5301.16
523	109		4	7	4	11.08	LB	#4 @12" TIES (4 PLACE)	207.32
524	109		4	7	4	6.75	LB	#4 @12" TIES (4 PLACE)	126.25
525	109		4	7	4	10.08	LB	#4 @12" TIES (4 PLACE)	188.61
526	109		4	7	4	5.75	LB	#4 @12" TIES (4 PLACE)	107.55
527									
528		<b>MK F-29</b>							
529		REF:1627-F-F044							
530		ISOLATED FOOTING							
531		40'-0"X24'-0"X6'-0"							
532	103		5	48	9	30.00	SL	#9 @6" LW BOT.	24480.00
533	103		5	48	9	14.75	ST	#9 @6" LW BOT.	12036.00
534	103		5	41	10	23.50	ST	#10 @12" SW BOT.	20729.70
535	103		5	25	8	30.00	SL	#8 @12" LW TOP	10012.50
536	103		5	25	8	15.50	ST	#8 @12" LW TOP	5173.13
537	103		5	41	8	23.50	ST	#8 @12" SW TOP	12862.73
538	103		5	6	4	30.00	SL	2-#4 CONT.	601.20
539	103		5	4	4	30.00	ST	2-#4 CONT.	400.80
540	103		20	2	4	4.83	HB	2-#4 COR.	129.16
541	103		5	128	4	10.00	HB	#4 @12" C BARS	4275.20
542		CONCRETE PIER							
543		18'-0"X6'-0"X6'-0"							
544	103		5	80	9	12.58	HB	80-#9 D/V	17112.88
545	109		5	8	4	56.33	LB	#4 @12" TIES	1505.19
546	109		20	8	4	18.42	LB	#4 @12" LINKS LW	1968.30
547	109		70	8	4	6.42	LB	#4 @12" LINKS SW	2400.10
548	103		20	12	9	12.58	HB	12-#9 D/V (4 PLACE)	10267.73
549	109		20	8	4	10.08	LB	#4 @12" TIES (4 PLACE)	1077.78
550	109		20	8	4	5.75	LB	#4 @12" TIES (4 PLACE)	614.56

**ESTIMATED TAKEOFF  
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LINE	CODE	ELEMENTS	MULTI	QTY	BAR SIZE	LENGTH 'FT'	BEND TYPE	REMARKS	WEIGHT 'LBS'
551									
552		<b>MK F-30</b>							
553		REF:1627-F-F045							
554		ISOLATED FOOTING							
555		34'-0"X20'-0"X6'-0"							
556	103			21	11	33.50	ST	#11 @12" LW BOT.	3737.70
557	103			35	9	19.50	ST	#9 @12" SW BOT.	2320.50
558	103			21	9	33.50	ST	#9 @12" LW TOP	2391.90
559	103			35	9	19.50	ST	#9 @12" SW TOP	2320.50
560	103			5	4	30.00	SL	2-#4 CONT.	100.20
561	103			4	4	30.00	ST	2-#4 CONT.	80.16
562	103		4	2	4	4.83	HB	2-#4 COR.	25.83
563	103			108	4	10.00	HB	#4 @12" C BARS	721.44
564		CONCRETE PIER							
565		18'-0"X6'-0"X2'-0"							
566	103			80	9	8.58	HB	80-#9 D/V	2334.58
567	109			4	4	56.33	LB	#4 @12" TIES	150.52
568	109		4	4	4	18.42	LB	#4 @12" LINKS LW	196.83
569	109		14	4	4	6.42	LB	#4 @12" LINKS SW	240.01
570	103		4	12	9	8.58	HB	12-#9 D/V (4 PLACE)	1400.75
571	109		4	4	4	10.08	LB	#4 @12" TIES (4 PLACE)	107.78
572	109		4	4	4	5.75	LB	#4 @12" TIES (4 PLACE)	61.46
573									
574		<b>MK F-31</b>							
575		REF:1627-F-F046							
576		ISOLATED FOOTING							
577		44'-0"X24'-0"X6'-0"							
578	103		3	48	11	30.00	SL	#11 @6" LW BOT.	22952.16
579	103		3	48	11	20.00	ST	#11 @6" LW BOT.	15301.44
580	103		3	45	11	23.50	ST	#11 @12" SW BOT.	16855.49
581	103		3	25	9	30.00	SL	#9 @12" LW TOP	7650.00
582	103		3	25	9	20.33	ST	#9 @12" LW TOP	5184.92
583	103		3	45	9	23.50	ST	#9 @12" SW TOP	10786.50
584	103		3	7	4	30.00	SL	2-#4 CONT.	420.84
585	103		3	3	4	30.00	ST	2-#4 CONT.	180.36
586	103		12	2	4	4.83	HB	2-#4 COR.	77.50
587	103		3	136	4	10.00	HB	#4 @12" C BARS	2725.44
588		CONCRETE PIER							
589		18'-0"X6'-0"X6'-0"							
590	103		3	80	9	12.58	HB	80-#9 D/V	10267.73
591	109		3	8	4	56.33	LB	#4 @12" TIES	903.11
592	109		12	8	4	18.42	LB	#4 @12" LINKS LW	1180.98
593	109		42	8	4	6.42	LB	#4 @12" LINKS SW	1440.06
594	103		12	12	9	12.58	HB	12-#9 D/V (4 PLACE)	6160.64
595	109		12	8	4	10.08	LB	#4 @12" TIES (4 PLACE)	646.67
596	109		12	8	4	5.75	LB	#4 @12" TIES (4 PLACE)	368.74
597									
598		<b>MK F-32</b>							
599		REF:1627-F-F047							
600		ISOLATED FOOTING							

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LINE	CODE	ELEMENTS	MULTI	QTY	BAR SIZE	LENGTH 'FT'	BEND TYPE	REMARKS	WEIGHT 'LBS'
601		40'-0"X24'-0"X6'-0"							
602	103		5	48	9	30.00	SL	#9 @6" LW BOT.	24480.00
603	103		5	48	9	14.75	ST	#9 @6" LW BOT.	12036.00
604	103		5	41	9	23.50	ST	#9 @12" SW BOT.	16379.50
605	103		5	25	8	30.00	SL	#8 @12" LW TOP	10012.50
606	103		5	25	8	15.50	ST	#8 @12" LW TOP	5173.13
607	103		5	41	8	23.50	ST	#8 @12" SW TOP	12862.73
608	103		5	6	4	30.00	SL	2-#4 CONT.	601.20
609	103		5	4	4	30.00	ST	2-#4 CONT.	400.80
610	103		20	2	4	4.83	HB	2-#4 COR.	129.16
611	103		5	128	4	10.00	HB	#4 @12" C BARS	4275.20
612		CONCRETE PIER							
613		12'-9"X6'-0"X6'-0"							
614	103		5	62	9	12.58	HB	62-#9 D/V	13262.48
615	109		5	8	4	45.83	LB	#4 @12" TIES	1224.63
616	109		20	8	4	13.17	LB	#4 @12" LINKS LW	1407.18
617	109		50	8	4	6.42	LB	#4 @12" LINKS SW	1714.36
618	103		20	12	9	12.58	HB	12-#9 D/V (4 PLACE)	10267.73
619	109		20	8	4	10.08	LB	#4 @12" TIES (4 PLACE)	1077.78
620	109		20	8	4	5.75	LB	#4 @12" TIES (4 PLACE)	614.56
621									
622		<b>MK F-33</b>							
623		REF:1627-F-F048							
624		ISOLATED FOOTING							
625		40'-0"X24'-0"X6'-0"							
626	103			48	9	30.00	SL	#9 @6" LW BOT.	4896.00
627	103			48	9	14.75	ST	#9 @6" LW BOT.	2407.20
628	103			41	9	23.50	ST	#9 @12" SW BOT.	3275.90
629	103			25	8	30.00	SL	#8 @12" LW TOP	2002.50
630	103			25	8	15.50	ST	#8 @12" LW TOP	1034.63
631	103			41	8	23.50	ST	#8 @12" SW TOP	2572.55
632	103			6	4	30.00	SL	2-#4 CONT.	120.24
633	103			4	4	30.00	ST	2-#4 CONT.	80.16
634	103		4	2	4	4.83	HB	2-#4 COR.	25.83
635	103			128	4	10.00	HB	#4 @12" C BARS	855.04
636		CONCRETE PIER							
637		18'-0"X11'-0"X6'-0"							
638	103			98	10	12.83	HB	98-#10 D/V	5411.60
639	109			8	4	66.33	LB	#4 @12" TIES	354.48
640	109		8	8	4	18.42	LB	#4 @12" LINKS LW	787.32
641	109		14	8	4	11.42	LB	#4 @12" LINKS SW	854.10
642	103		4	12	10	12.83	HB	12-#10 D/V (4 PLACE)	2650.58
643	109		4	8	4	11.08	LB	#4 @12" TIES (4 PLACE)	236.93
644	109		4	8	4	6.75	LB	#4 @12" TIES (4 PLACE)	144.29
645	103		2	18	10	12.83	HB	18-#10 D/V (2 PLACE)	1987.93
646	109		2	8	4	12.08	LB	#4 @12" TIES (2 PLACE)	129.15
647	109		2	8	4	7.75	LB	#4 @12" TIES (2 PLACE)	82.83
648									
649		<b>MK F-34</b>							
650		REF:1627-F-F049							



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LINE	CODE	ELEMENTS	MULTI	QTY	BAR SIZE	LENGTH 'FT'	BEND TYPE	REMARKS	WEIGHT 'LBS'
651		ISOLATED FOOTING							
652		40'-0"X24'-0"X6'-0"							
653	103		5	48	9	30.00	SL	#9 @6" LW BOT.	24480.00
654	103		5	48	9	14.75	ST	#9 @6" LW BOT.	12036.00
655	103		5	80	8	23.50	ST	#8 @6" SW BOT.	25098.00
656	103		5	25	8	30.00	SL	#8 @12" LW TOP	10012.50
657	103		5	25	8	15.50	ST	#8 @12" LW TOP	5173.13
658	103		5	41	8	23.50	ST	#8 @12" SW TOP	12862.73
659	103		5	6	4	30.00	SL	2-#4 CONT.	601.20
660	103		5	4	4	30.00	ST	2-#4 CONT.	400.80
661	103		20	2	4	4.83	HB	2-#4 COR.	129.16
662	103		5	128	4	10.00	HB	#4 @12" C BARS	4275.20
663		CONCRETE PIER							
664		18'-0"X6'-0"X6'-0"							
665	103		5	80	9	12.58	HB	80-#9 D/V	17112.88
666	109		5	8	4	56.33	LB	#4 @12" TIES	1505.19
667	109		20	8	4	18.42	LB	#4 @12" LINKS LW	1968.30
668	109		70	8	4	6.42	LB	#4 @12" LINKS SW	2400.10
669	103		20	12	9	12.58	HB	12-#9 D/V (4 PLACE)	10267.73
670	109		20	8	4	10.08	LB	#4 @12" TIES (4 PLACE)	1077.78
671	109		20	8	4	5.75	LB	#4 @12" TIES (4 PLACE)	614.56
672									
673		<b>MK F-35</b>							
674		REF:1627-F-F050							
675		ISOLATED FOOTING							
676		34'-0"X24'-0"X6'-0"							
677	103		2	25	11	33.50	ST	#11 @12" LW BOT.	8899.28
678	103		2	35	11	23.50	ST	#11 @12" SW BOT.	8739.89
679	103		2	25	9	33.50	ST	#9 @12" LW TOP	5695.00
680	103		2	35	9	23.50	ST	#9 @12" SW TOP	5593.00
681	103		2	5	4	30.00	SL	2-#4 CONT.	200.40
682	103		2	4	4	30.00	ST	2-#4 CONT.	160.32
683	103		8	2	4	4.83	HB	2-#4 COR.	51.67
684	103		2	116	4	10.00	HB	#4 @12" C BARS	1549.76
685		CONCRETE PIER							
686		18'-0"X6'-0"X6'-0"							
687	103		2	80	9	12.58	HB	80-#9 D/V	6845.15
688	109		2	8	4	56.33	LB	#4 @12" TIES	602.08
689	109		8	8	4	18.42	LB	#4 @12" LINKS LW	787.32
690	109		28	8	4	6.42	LB	#4 @12" LINKS SW	960.04
691	103		8	12	9	12.58	HB	12-#9 D/V (4 PLACE)	4107.09
692	109		8	8	4	10.08	LB	#4 @12" TIES (4 PLACE)	431.11
693	109		8	8	4	5.75	LB	#4 @12" TIES (4 PLACE)	245.82
694									
695		<b>MK F-38</b>							
696		REF:1627-F-F053							
697		ISOLATED FOOTING							
698		52'-0"X34'-0"X7'-0"							
699	103			68	11	30.00	SL	#11 @6" LW BOT.	10838.52
700	103			68	11	28.00	ST	#11 @6" LW BOT.	10115.95

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LINE	CODE	ELEMENTS	MULTI	QTY	BAR SIZE	LENGTH 'FT'	BEND TYPE	REMARKS	WEIGHT 'LBS'
701	103			104	8	33.50	ST	#8 @6" SW BOT.	9302.28
702	103			35	9	30.00	SL	#9 @12" LW TOP	3570.00
703	103			35	9	28.33	ST	#9 @12" LW TOP	3371.63
704	103			53	9	33.50	ST	#9 @12" SW TOP	6036.70
705	103			13	4	30.00	SL	2-#4 CONT.	260.52
706	103		4	2	4	4.83	HB	2-#4 COR.	25.83
707	103			172	4	11.00	HB	#4 @12" C BARS	1263.86
708		CONCRETE PIER							
709		20'-9 1/4"X13'-0"X5'-0"							
710	103			110	10	12.83	HB	110-#10 D/V	6074.24
711	109			7	4	75.83	LB	#4 @12" TIES	354.59
712	109		10	7	4	21.17	LB	#4 @12" LINKS LW	989.72
713	109		16	7	4	13.42	LB	#4 @12" LINKS SW	1003.73
714	103		8	12	10	12.83	HB	12-#10 D/V (8 PLACE)	5301.16
715	109		4	7	4	12.08	LB	#4 @12" TIES (4 PLACE)	226.02
716	109		4	7	4	7.75	LB	#4 @12" TIES (4 PLACE)	144.96
717	109		4	7	4	10.08	LB	#4 @12" TIES (4 PLACE)	188.61
718	109		4	7	4	5.75	LB	#4 @12" TIES (4 PLACE)	107.55
719									
720		<b>MK F-39</b>							
721		REF:1627-F-F054							
722		ISOLATED FOOTING							
723		54'-0"X34'-0"X7'-0"							
724	103			68	11	30.00	SL	#11 @6" LW BOT.	10838.52
725	103			68	11	30.00	SL	#11 @6" LW BOT.	10838.52
726	103			108	9	33.50	ST	#9 @6" SW BOT.	12301.20
727	103			35	9	30.00	SL	#9 @12" LW TOP	3570.00
728	103			35	9	30.33	ST	#9 @12" LW TOP	3609.63
729	103			55	9	33.50	ST	#9 @12" SW TOP	6264.50
730	103			13	4	30.00	SL	2-#4 CONT.	260.52
731	103		4	2	4	4.83	HB	2-#4 COR.	25.83
732	103			176	4	11.00	HB	#4 @12" C BARS	1293.25
733		CONCRETE PIER							
734		20'-9 1/4"X8'-0"X5'-0"							
735	103			94	10	12.83	HB	94-#10 D/V	5190.72
736	109			7	4	65.83	LB	#4 @12" TIES	307.83
737	109		6	7	4	21.17	LB	#4 @12" LINKS LW	593.83
738	109		16	7	4	8.42	LB	#4 @12" LINKS SW	629.65
739	103		4	12	10	12.83	HB	12-#10 D/V (4 PLACE)	2650.58
740	109		4	7	4	11.08	LB	#4 @12" TIES (4 PLACE)	207.32
741	109		4	7	4	6.75	LB	#4 @12" TIES (4 PLACE)	126.25
742									
743		<b>MK F-40</b>							
744		REF:1627-F-F055							
745		ISOLATED FOOTING							
746		64'-0"X34'-0"X7'-0"							
747	103		8	68	11	30.00	SL	#11 @6" LW BOT.	86708.16
748	103		4	68	11	16.50	ST	#11 @6" LW BOT.	23844.74
749	103		4	128	9	33.50	ST	#9 @6" SW BOT.	58316.80
750	103		8	35	9	30.00	SL	#9 @12" LW TOP	28560.00

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LINE	CODE	ELEMENTS	MULTI	QTY	BAR SIZE	LENGTH 'FT'	BEND TYPE	REMARKS	WEIGHT 'LBS'
751	103		4	35	9	17.17	ST	#9 @12" LW TOP	8171.02
752	103		4	65	9	33.50	ST	#9 @12" SW TOP	29614.00
753	103		4	14	4	30.00	SL	2-#4 CONT.	1122.24
754	103		16	2	4	4.83	HB	2-#4 COR.	103.33
755	103		4	196	4	11.00	HB	#4 @12" C BARS	5760.83
756		CONCRETE PIER							
757		20'-9 1/4"X8'-0"X5'-0"							
758	103		4	94	10	12.83	HB	94-#10 D/V	20762.87
759	109		4	7	4	65.83	LB	#4 @12" TIES	1231.32
760	109		24	7	4	21.17	LB	#4 @12" LINKS LW	2375.33
761	109		64	7	4	8.42	LB	#4 @12" LINKS SW	2518.61
762	103		16	12	10	12.83	HB	12-#10 D/V (4 PLACE)	10602.32
763	109		16	7	4	11.08	LB	#4 @12" TIES (4 PLACE)	829.26
764	109		16	7	4	6.75	LB	#4 @12" TIES (4 PLACE)	505.01
765									
766		<b>MK F-41</b>							
767		REF:1627-F-F056							
768		ISOLATED FOOTING							
769		64'-0"X34'-0"X7'-0"							
770	103		2	68	11	30.00	SL	#11 @6" LW BOT.	21677.04
771	103			68	11	16.50	ST	#11 @6" LW BOT.	5961.19
772	103			65	9	33.50	ST	#9 @12" SW BOT.	7403.50
773	103		2	35	9	30.00	SL	#9 @12" LW TOP	7140.00
774	103			35	9	17.17	ST	#9 @12" LW TOP	2042.75
775	103			65	9	33.50	ST	#9 @12" SW TOP	7403.50
776	103			14	4	30.00	SL	2-#4 CONT.	280.56
777	103		4	2	4	4.83	HB	2-#4 COR.	25.83
778	103			196	4	11.00	HB	#4 @12" C BARS	1440.21
779		CONCRETE PIER							
780		20'-9 1/4"X8'-0"X5'-0"							
781	103			94	10	12.83	HB	94-#10 D/V	5190.72
782	109			7	4	65.83	LB	#4 @12" TIES	307.83
783	109		6	7	4	21.17	LB	#4 @12" LINKS LW	593.83
784	109		16	7	4	8.42	LB	#4 @12" LINKS SW	629.65
785	103		4	12	10	12.83	HB	12-#10 D/V (4 PLACE)	2650.58
786	109		4	7	4	11.08	LB	#4 @12" TIES (4 PLACE)	207.32
787	109		4	7	4	6.75	LB	#4 @12" TIES (4 PLACE)	126.25
788									
789		<b>MK F-42</b>							
790		REF:1627-F-F057							
791		ISOLATED FOOTING							
792		60'-0"X34'-0"X7'-0"							
793	103		20	68	10	30.00	SL	#10 @6" LW BOT. (2 LAYER)	175562.40
794	103		10	68	10	11.17	ST	#10 @6" LW BOT. (2 LAYER)	32672.16
795	103		10	120	10	33.50	ST	#10 @6" SW BOT. (2 LAYER)	172980.60
796	103		10	35	9	30.00	SL	#9 @12" LW TOP	35700.00
797	103		5	35	9	13.17	ST	#9 @12" LW TOP	7833.77
798	103		5	61	9	33.50	ST	#9 @12" SW TOP	34739.50
799	103		5	14	4	30.00	SL	2-#4 CONT.	1402.80
800	103		20	2	4	4.83	HB	2-#4 COR.	129.16

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LINE	CODE	ELEMENTS	MULTI	QTY	BAR SIZE	LENGTH 'FT'	BEND TYPE	REMARKS	WEIGHT 'LBS'
801	103		5	188	4	11.00	HB	#4 @12" C BARS	6907.12
802	103			135	6	5.00	HB	#6 STANDEE	1013.85
803		CONCRETE PIER							
804		20'-9 1/4"X8'-0"X5'-0"							
805	103		5	94	10	12.83	HB	94-#10 D/V	25953.59
806	109		5	7	4	65.83	LB	#4 @12" TIES	1539.15
807	109		30	7	4	21.17	LB	#4 @12" LINKS LW	2969.17
808	109		80	7	4	8.42	LB	#4 @12" LINKS SW	3148.26
809	103		20	12	10	12.83	HB	12-#10 D/V (4 PLACE)	13252.90
810	109		20	7	4	11.08	LB	#4 @12" TIES (4 PLACE)	1036.58
811	109		20	7	4	6.75	LB	#4 @12" TIES (4 PLACE)	631.26
812									
813		<b>MK F-45</b>							
814		REF:1627-F-F060							
815		ISOLATED FOOTING							
816		60'-0"X34'-0"X6'-0"							
817	103		4	68	10	30.00	SL	#10 @6" LW BOT. (2 LAYER)	35112.48
818	103		2	68	10	11.17	ST	#10 @6" LW BOT. (2 LAYER)	6534.43
819	103		2	120	10	33.50	ST	#10 @6" SW BOT. (2 LAYER)	34596.12
820	103		2	35	9	30.00	SL	#9 @12" LW TOP	7140.00
821	103			35	9	13.17	ST	#9 @12" LW TOP	1566.75
822	103			61	9	33.50	ST	#9 @12" SW TOP	6947.90
823	103			14	4	30.00	SL	2-#4 CONT.	280.56
824	103		4	2	4	4.83	HB	2-#4 COR.	25.83
825	103			188	4	10.00	HB	#4 @12" C BARS	1255.84
826	103			135	6	5.00	HB	#6 STANDEE	1013.85
827		CONCRETE PIER							
828		32'-3"X8'-0"X6'-0"							
829	103			132	10	12.83	HB	132-#10 D/V	7289.09
830	109			8	4	88.67	LB	#4 @12" TIES	473.83
831	109		6	8	4	32.58	LB	#4 @12" LINKS LW	1044.74
832	109		26	8	4	8.42	LB	#4 @12" LINKS SW	1169.35
833	103		4	12	10	12.83	HB	12-#10 D/V (4 PLACE)	2650.58
834	109		4	8	4	11.08	LB	#4 @12" TIES (4 PLACE)	236.93
835	109		4	8	4	6.75	LB	#4 @12" TIES (4 PLACE)	144.29
836									
837		<b>MK F-46</b>							
838		REF:1627-F-F061							
839		ISOLATED FOOTING							
840		60'-0"X34'-0"X6'-0"							
841	103		8	68	10	30.00	SL	#10 @6" LW BOT. (2 LAYER)	70224.96
842	103		4	68	10	11.17	ST	#10 @6" LW BOT. (2 LAYER)	13068.87
843	103		4	120	10	33.50	ST	#10 @6" SW BOT. (2 LAYER)	69192.24
844	103		4	35	9	30.00	SL	#9 @12" LW TOP	14280.00
845	103		2	35	9	13.17	ST	#9 @12" LW TOP	3133.51
846	103		2	61	9	33.50	ST	#9 @12" SW TOP	13895.80
847	103		2	14	4	30.00	SL	2-#4 CONT.	561.12
848	103		8	2	4	4.83	HB	2-#4 COR.	51.67
849	103		2	188	4	10.00	HB	#4 @12" C BARS	2511.68
850	103			135	6	5.00	HB	#6 STANDEE	1013.85

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LINE	CODE	ELEMENTS	MULTI	QTY	BAR SIZE	LENGTH 'FT'	BEND TYPE	REMARKS	WEIGHT 'LBS'
851		CONCRETE PIER							
852		32'-3"X8'-0"X6'-0"							
853	103		2	132	10	12.83	HB	132-#10 D/V	14578.19
854	109		2	8	4	88.67	LB	#4 @12" TIES	947.66
855	109		12	8	4	32.58	LB	#4 @12" LINKS LW	2089.48
856	109		52	8	4	8.42	LB	#4 @12" LINKS SW	2338.71
857	103		8	12	10	12.83	HB	12-#10 D/V (4 PLACE)	5301.16
858	109		8	8	4	11.08	LB	#4 @12" TIES (4 PLACE)	473.86
859	109		8	8	4	6.75	LB	#4 @12" TIES (4 PLACE)	288.58
860									
861		<b>MK F-47</b>							
862		REF:1627-F-F062							
863		ISOLATED FOOTING							
864		64'-0"X34'-0"X7'-0"							
865	103		18	82	11	30.00	SL	#11 @5" LW BOT.	235259.64
866	103		9	82	11	16.50	ST	#11 @5" LW BOT.	64696.40
867	103		9	128	9	33.50	ST	#9 @6" SW BOT.	131212.80
868	103		18	35	9	30.00	SL	#9 @12" LW TOP	64260.00
869	103		9	35	9	17.17	ST	#9 @12" LW TOP	18384.79
870	103		9	65	9	33.50	ST	#9 @12" SW TOP	66631.50
871	103		9	14	4	30.00	SL	2-#4 CONT.	2525.04
872	103		36	2	4	4.83	HB	2-#4 COR.	232.50
873	103		9	196	4	11.00	HB	#4 @12" C BARS	12961.87
874		CONCRETE PIER							
875		32'-3"X8'-0"X5'-0"							
876	103		9	132	10	12.83	HB	132-#10 D/V	65601.83
877	109		9	7	4	88.67	LB	#4 @12" TIES	3731.42
878	109		54	7	4	32.58	LB	#4 @12" LINKS LW	8227.34
879	109		234	7	4	8.42	LB	#4 @12" LINKS SW	9208.65
880	103		36	12	10	12.83	HB	12-#10 D/V (4 PLACE)	23855.21
881	109		36	7	4	11.08	LB	#4 @12" TIES (4 PLACE)	1865.84
882	109		36	7	4	6.75	LB	#4 @12" TIES (4 PLACE)	1136.27
883									
884		<b>MK F-49</b>							
885		REF:1627-F-F028							
886		ISOLATED FOOTING							
887		16'-0"X6'-0"X6'-0"							
888	103		7	12	10	15.50	ST	12-#10 LW BOT.	5602.51
889	103		7	17	5	5.50	ST	#5 @12" SW BOT.	682.64
890	103		7	6	10	15.50	ST	6-#10 LW TOP	2801.25
891	103		7	17	5	5.50	ST	#5 @12" SW TOP	682.64
892	103		7	2	5	32.00	ST	2-#5 CONT.	467.26
893	103		7	2	5	24.00	HB	2-#5 CONT.	350.45
894	103		7	44	5	10.00	HB	#5 @12" C BARS	3212.44
895		CONCRETE PIER							
896		5'-6"X3'-0"X6'-0"							
897	103	SECTION B-B	7	28	8	12.33	HB	28-#8 D/V	6454.11
898	109		7	8	4	16.41	LB	#4 @12" TIES	614.01
899	109		14	8	4	5.92	LB	#4 @12" LINKS LW	442.61
900	109		28	8	4	3.42	LB	#4 @12" LINKS SW	511.14

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LINE	CODE	ELEMENTS	MULTI	QTY	BAR SIZE	LENGTH 'FT'	BEND TYPE	REMARKS	WEIGHT 'LBS'
901									
902		<b>MK F-50</b>							
903		REF:1627-F-F064							
904		ISOLATED FOOTING							
905		16'-0"X6'-0"X6'-0"							
906	103		13	12	10	15.50	ST	12-#10 LW BOT.	10404.65
907	103		13	17	5	5.50	ST	#5 @12" SW BOT.	1267.77
908	103		13	6	10	15.50	ST	6-#10 LW TOP	5202.33
909	103		13	17	5	5.50	ST	#5 @12" SW TOP	1267.77
910	103		13	2	5	32.00	ST	2-#5 CONT.	867.78
911	103		13	2	5	24.00	HB	2-#5 CONT.	650.83
912	103		13	44	5	10.00	HB	#5 @12" C BARS	5965.96
913		CONCRETE PIER							
914		5'-4"X3'-0"X6'-0"							
915	103	SECTION B-B	13	28	8	12.33	HB	28-#8 D/V	11986.20
916	109		13	8	4	16.08	LB	#4 @12" TIES	1117.11
917	109		26	8	4	5.75	LB	#4 @12" LINKS LW	798.79
918	109		52	8	4	3.42	LB	#4 @12" LINKS SW	949.27
919									
920		<b>MK F-51</b>							
921		REF:1627-F-F028							
922		ISOLATED FOOTING							
923		16'-0"X6'-0"X6'-0"							
924	103		2	12	10	15.50	ST	12-#10 LW BOT.	1600.72
925	103		2	17	5	5.50	ST	#5 @12" SW BOT.	195.04
926	103		2	6	10	15.50	ST	6-#10 LW TOP	800.36
927	103		2	17	5	5.50	ST	#5 @12" SW TOP	195.04
928	103		2	2	5	32.00	ST	2-#5 CONT.	133.50
929	103		2	2	5	24.00	HB	2-#5 CONT.	100.13
930	103		2	44	5	10.00	HB	#5 @12" C BARS	917.84
931		CONCRETE PIER							
932		5'-6"X3'-0"X6'-0"							
933	103	SECTION B-B	2	28	8	12.33	HB	28-#8 D/V	1844.03
934	109		2	8	4	16.41	LB	#4 @12" TIES	175.43
935	109		4	8	4	5.92	LB	#4 @12" LINKS LW	126.46
936	109		8	8	4	3.42	LB	#4 @12" LINKS SW	146.04
937									
938		<b>MK F-52</b>							
939		REF:1627-F-F064							
940		ISOLATED FOOTING							
941		16'-0"X6'-0"X6'-0"							
942	103		7	12	10	15.50	ST	12-#10 LW BOT.	5602.51
943	103		7	17	5	5.50	ST	#5 @12" SW BOT.	682.64
944	103		7	6	10	15.50	ST	6-#10 LW TOP	2801.25
945	103		7	17	5	5.50	ST	#5 @12" SW TOP	682.64
946	103		7	2	5	32.00	ST	2-#5 CONT.	467.26
947	103		7	2	5	24.00	HB	2-#5 CONT.	350.45
948	103		7	44	5	10.00	HB	#5 @12" C BARS	3212.44
949		CONCRETE PIER							
950		5'-4"X3'-0"X6'-0"							

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LINE	CODE	ELEMENTS	MULTI	QTY	BAR SIZE	LENGTH 'FT'	BEND TYPE	REMARKS	WEIGHT 'LBS'
951	103	SECTION B-B	7	28	8	12.33	HB	28-#8 D/V	6454.11
952	109		7	8	4	16.08	LB	#4 @12" TIES	601.52
953	109		14	8	4	5.75	LB	#4 @12" LINKS LW	430.12
954	109		28	8	4	3.42	LB	#4 @12" LINKS SW	511.14
955									
956		<b>MK F-54</b>							
957		REF:1627-F-F066							
958		ISOLATED FOOTING							
959		64'-0"X34'-0"X7'-0"							
960	103		2	68	11	30.00	SL	#11 @6" LW BOT.	21677.04
961	103			68	11	16.50	ST	#11 @6" LW BOT.	5961.19
962	103			128	9	33.50	ST	#9 @6" SW BOT.	14579.20
963	103		2	35	9	30.00	SL	#9 @12" LW TOP	7140.00
964	103			35	9	17.17	ST	#9 @12" LW TOP	2042.75
965	103			65	9	33.50	ST	#9 @12" SW TOP	7403.50
966	103			14	4	30.00	SL	2-#4 CONT.	280.56
967	103		4	2	4	4.83	HB	2-#4 COR.	25.83
968	103			196	4	11.00	HB	#4 @12" C BARS	1440.21
969		CONCRETE PIER							
970		32'-3"X8'-0"X5'-0"							
971	103			131	10	12.83	HB	131-#10 D/V	7233.87
972	109			7	4	88.67	LB	#4 @12" TIES	414.60
973	109		6	7	4	32.58	LB	#4 @12" LINKS LW	914.15
974	109		26	7	4	8.42	LB	#4 @12" LINKS SW	1023.18
975	103		4	12	10	12.83	HB	12-#10 D/V (4 PLACE)	2650.58
976	109		4	7	4	11.08	LB	#4 @12" TIES (4 PLACE)	207.32
977	109		4	7	4	6.75	LB	#4 @12" TIES (4 PLACE)	126.25
978		6'-1"X4'-6"X5'-0"							
979	103			30	10	12.83	HB	30-#10 D/V	1656.61
980	109			7	4	20.58	LB	#4 @12" TIES	96.23
981	109		2	7	4	6.50	LB	#4 @12" LINKS LW	60.78
982	109		5	7	4	4.92	LB	#4 @12" LINKS SW	114.94
983		6'-1"X3'-0"X5'-0"							
984	103			27	10	12.83	HB	27-#10 D/V	1490.95
985	109			7	4	17.58	LB	#4 @12" TIES	82.20
986	109		5	7	4	3.42	LB	#4 @12" LINKS SW	79.87
987		REF:1627-F-F041							
988		5'-4"X3'-0"X5'-0"							
989	103	SECTION D-D		28	8	12.33	HB	28-#8 D/V	922.02
990	109			7	4	16.08	LB	#4 @12" TIES	75.19
991	109		2	7	4	5.75	LB	#4 @12" LINKS LW	53.76
992	109		4	7	4	3.42	LB	#4 @12" LINKS SW	63.89
993									
994		<b>MK F-55</b>							
995		REF:1627-F-F067							
996		ISOLATED FOOTING							
997		52'-0"X34'-0"X6'-0"							
998	103			82	10	30.00	SL	#10 @5" LW BOT.	10585.38
999	103			82	10	27.33	ST	#10 @5" LW BOT.	9644.34
1000	103			53	10	33.50	ST	#10 @12" SW BOT.	7639.98

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LINE	CODE	ELEMENTS	MULTI	QTY	BAR SIZE	LENGTH 'FT'	BEND TYPE	REMARKS	WEIGHT 'LBS'
1001	103			35	8	30.00	SL	#8 @12" LW TOP	2803.50
1002	103			35	8	27.50	ST	#8 @12" LW TOP	2569.88
1003	103			53	8	33.50	ST	#8 @12" SW TOP	4740.59
1004	103			13	4	30.00	SL	2-#4 CONT.	260.52
1005	103		4	2	4	4.83	HB	2-#4 COR.	25.83
1006	103			172	4	10.00	HB	#4 @12" C BARS	1148.96
1007		CONCRETE PIER							
1008		20'-9 1/4"X8'-0"X6'-0"							
1009	103			94	10	12.83	HB	94-#10 D/V	5190.72
1010	109			8	4	65.83	LB	#4 @12" TIES	351.81
1011	109		6	8	4	21.17	LB	#4 @12" LINKS LW	678.67
1012	109		16	8	4	8.42	LB	#4 @12" LINKS SW	719.60
1013	103		4	12	10	12.83	HB	12-#10 D/V (4 PLACE)	2650.58
1014	109		4	8	4	11.08	LB	#4 @12" TIES (4 PLACE)	236.93
1015	109		4	8	4	6.75	LB	#4 @12" TIES (4 PLACE)	144.29
1016		6'-1"X4'-6"X6'-0"							
1017	103			27	10	12.83	HB	27-#10 D/V	1490.95
1018	109			8	4	20.58	LB	#4 @12" TIES	109.98
1019	109			8	4	6.50	LB	#4 @12" LINKS LW	34.73
1020	109		6	8	4	4.92	LB	#4 @12" LINKS SW	157.63
1021									
1022		<b>MK F-63</b>							
1023		REF:1627-F-F082							
1024		ISOLATED FOOTING							
1025		52'-0"X34'-0"X7'-0"							
1026	103			68	11	30.00	SL	#11 @6" LW BOT.	10838.52
1027	103			68	11	28.00	ST	#11 @6" LW BOT.	10115.95
1028	103			53	10	33.50	ST	#10 @12" SW BOT.	7639.98
1029	103			35	9	30.00	SL	#9 @12" LW TOP	3570.00
1030	103			35	9	28.33	ST	#9 @12" LW TOP	3371.63
1031	103			53	9	33.50	ST	#9 @12" SW TOP	6036.70
1032	103			13	4	30.00	SL	2-#4 CONT.	260.52
1033	103		4	2	4	4.83	HB	2-#4 COR.	25.83
1034	103			172	4	11.00	HB	#4 @12" C BARS	1263.86
1035		CONCRETE PIER							
1036		19'-1 1/2"X8'-0"X5'-0"							
1037	103			90	10	12.83	HB	90-#10 D/V	4969.84
1038	109			7	4	62.67	LB	#4 @12" TIES	293.03
1039	109		6	7	4	19.58	LB	#4 @12" LINKS LW	549.42
1040	109		15	7	4	8.42	LB	#4 @12" LINKS SW	590.30
1041	103		4	12	11	13.00	HB	12-#11 D/V (4 PLACE)	3315.31
1042	109		4	7	4	11.08	LB	#4 @12" TIES (4 PLACE)	207.32
1043	109		4	7	4	6.75	LB	#4 @12" TIES (4 PLACE)	126.25
1044		6'-3"X6'-1"X5'-0"							
1045	103			32	10	12.83	HB	32-#10 D/V	1767.05
1046	109			7	4	23.91	LB	#4 @12" TIES	111.82
1047	109		4	7	4	6.58	LB	#4 @12" LINKS LW	123.13
1048	109		6	7	4	6.50	LB	#4 @12" LINKS SW	182.34
1049		REF:1627-F-F041							
1050		5'-4"X3'-0"X5'-0"							



**ESTIMATED TAKEOFF  
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LINE	CODE	ELEMENTS	MULTI	QTY	BAR SIZE	LENGTH 'FT'	BEND TYPE	REMARKS	WEIGHT 'LBS'
1051	103	SECTION D-D		28	8	12.33	HB	28-#8 D/V	922.02
1052	109			7	4	16.08	LB	#4 @12" TIES	75.19
1053	109		2	7	4	5.75	LB	#4 @12" LINKS LW	53.76
1054	109		4	7	4	3.42	LB	#4 @12" LINKS SW	63.89
1055									
1056		<b>MK F-64</b>							
1057		REF:1627-F-F083							
1058		ISOLATED FOOTING							
1059		64'-0"X34'-0"X7'-0"							
1060	103		2	68	11	30.00	SL	#11 @6" LW BOT.	21677.04
1061	103			68	11	16.50	ST	#11 @6" LW BOT.	5961.19
1062	103			128	9	33.50	ST	#9 @6" SW BOT.	14579.20
1063	103		2	35	9	30.00	SL	#9 @12" LW TOP	7140.00
1064	103			35	9	17.17	ST	#9 @12" LW TOP	2042.75
1065	103			65	9	33.50	ST	#9 @12" SW TOP	7403.50
1066	103			14	4	30.00	SL	2-#4 CONT.	280.56
1067	103		4	2	4	4.83	HB	2-#4 COR.	25.83
1068	103			196	4	11.00	HB	#4 @12" C BARS	1440.21
1069		CONCRETE PIER							
1070		32'-3"X8'-0"X5'-0"							
1071	103			134	10	12.83	HB	134-#10 D/V	7399.53
1072	109			7	4	88.67	LB	#4 @12" TIES	414.60
1073	109		6	7	4	32.58	LB	#4 @12" LINKS LW	914.15
1074	109		26	7	4	8.42	LB	#4 @12" LINKS SW	1023.18
1075	103		4	12	10	12.83	HB	12-#10 D/V (4 PLACE)	2650.58
1076	109		4	7	4	11.08	LB	#4 @12" TIES (4 PLACE)	207.32
1077	109		4	7	4	6.75	LB	#4 @12" TIES (4 PLACE)	126.25
1078		6'-1"X4'-6"X5'-0"							
1079	103			27	10	12.83	HB	27-#10 D/V	1490.95
1080	109			7	4	20.58	LB	#4 @12" TIES	96.23
1081	109		2	7	4	6.50	LB	#4 @12" LINKS LW	60.78
1082	109		5	7	4	4.92	LB	#4 @12" LINKS SW	114.94
1083		REF:1627-F-F041							
1084		5'-4"X3'-0"X5'-0"							
1085	103	SECTION D-D		28	8	12.33	HB	28-#8 D/V	922.02
1086	109			7	4	16.08	LB	#4 @12" TIES	75.19
1087	109		2	7	4	5.75	LB	#4 @12" LINKS LW	53.76
1088	109		4	7	4	3.42	LB	#4 @12" LINKS SW	63.89
1089									
1090		<b>MK F-65</b>							
1091		REF:1627-F-F084							
1092		ISOLATED FOOTING							
1093		60'-0"X34'-0"X6'-0"							
1094	103		2	68	11	30.00	SL	#11 @6" LW BOT.	21677.04
1095	103			68	11	12.50	ST	#11 @6" LW BOT.	4516.05
1096	103			91	11	33.50	ST	#11 @8" SW BOT.	16196.68
1097	103		2	35	9	30.00	SL	#9 @12" LW TOP	7140.00
1098	103			35	9	13.17	ST	#9 @12" LW TOP	1566.75
1099	103			61	9	33.50	ST	#9 @12" SW TOP	6947.90
1100	103			14	4	30.00	SL	2-#4 CONT.	280.56

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LINE	CODE	ELEMENTS	MULTI	QTY	BAR SIZE	LENGTH 'FT'	BEND TYPE	REMARKS	WEIGHT 'LBS'
1101	103		4	2	4	4.83	HB	2-#4 COR.	25.83
1102	103			188	4	10.00	HB	#4 @12" C BARS	1255.84
1103		CONCRETE PIER							
1104		20'-9 1/4"X8'-0"X6'-0"							
1105	103			94	10	12.83	HB	94-#10 D/V	5190.72
1106	109			8	4	65.83	LB	#4 @12" TIES	351.81
1107	109		6	8	4	21.17	LB	#4 @12" LINKS LW	678.67
1108	109		16	8	4	8.42	LB	#4 @12" LINKS SW	719.60
1109	103		4	12	10	12.83	HB	12-#10 D/V (4 PLACE)	2650.58
1110	109		4	8	4	11.08	LB	#4 @12" TIES (4 PLACE)	236.93
1111	109		4	8	4	6.75	LB	#4 @12" TIES (4 PLACE)	144.29
1112		6'-1"X4'-6"X6'-0"							
1113	103			27	10	12.83	HB	27-#10 D/V	1490.95
1114	109			8	4	20.58	LB	#4 @12" TIES	109.98
1115	109			8	4	6.50	LB	#4 @12" LINKS LW	34.73
1116	109		6	8	4	4.92	LB	#4 @12" LINKS SW	157.63
1117		REF:1627-F-F041							
1118		5'-4"X3'-0"X6'-0"							
1119	103	SECTION D-D		28	8	12.33	HB	28-#8 D/V	922.02
1120	109			8	4	16.08	LB	#4 @12" TIES	85.93
1121	109		2	8	4	5.75	LB	#4 @12" LINKS LW	61.45
1122	109		4	8	4	3.42	LB	#4 @12" LINKS SW	73.02
1123									
1124		<b>MK F-66</b>							
1125		REF:1627-F-F085							
1126		ISOLATED FOOTING							
1127		44'-0"X24'-0"X6'-0"							
1128	103			48	11	30.00	SL	#11 @6" LW BOT.	7650.72
1129	103			48	11	20.00	ST	#11 @6" LW BOT.	5100.48
1130	103			45	11	23.50	ST	#11 @12" SW BOT.	5618.50
1131	103			25	9	30.00	SL	#9 @12" LW TOP	2550.00
1132	103			25	9	20.33	ST	#9 @12" LW TOP	1728.31
1133	103			45	9	23.50	ST	#9 @12" SW TOP	3595.50
1134	103			7	4	30.00	SL	2-#4 CONT.	140.28
1135	103			3	4	30.00	ST	2-#4 CONT.	60.12
1136	103		4	2	4	4.83	HB	2-#4 COR.	25.83
1137	103			136	4	10.00	HB	#4 @12" C BARS	908.48
1138		CONCRETE PIER							
1139		18'-0"X6'-0"X6'-0"							
1140	103			80	9	12.58	HB	80-#9 D/V	3422.58
1141	109			8	4	56.33	LB	#4 @12" TIES	301.04
1142	109		4	8	4	18.42	LB	#4 @12" LINKS LW	393.66
1143	109		14	8	4	6.42	LB	#4 @12" LINKS SW	480.02
1144	103		4	12	9	12.58	HB	12-#9 D/V (4 PLACE)	2053.55
1145	109		4	8	4	10.08	LB	#4 @12" TIES (4 PLACE)	215.56
1146	109		4	8	4	5.75	LB	#4 @12" TIES (4 PLACE)	122.91
1147		7'-1"X4'-6"X6'-0"							
1148	103			35	9	12.58	HB	35-#9 D/V	1497.38
1149	109			8	4	22.58	LB	#4 @12" TIES	120.67
1150	109		3	8	4	7.50	LB	#4 @12" LINKS LW	120.22

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1151	109		6	8	4	4.92	LB	#4 @12" LINKS SW	157.63
1152		REF:1627-F-F041							
1153		5'-4"X3'-0"X6'-0"							
1154	103	SECTION D-D		28	8	12.33	HB	28-#8 D/V	922.02
1155	109			8	4	16.08	LB	#4 @12" TIES	85.93
1156	109		2	8	4	5.75	LB	#4 @12" LINKS LW	61.45
1157	109		4	8	4	3.42	LB	#4 @12" LINKS SW	73.02
1158									
1159		<b>MK F-67</b>							
1160		REF:1627-F-F086							
1161		ISOLATED FOOTING							
1162		44'-0"X24'-0"X6'-0"							
1163	103			48	11	30.00	SL	#11 @6" LW BOT.	7650.72
1164	103			48	11	20.00	ST	#11 @6" LW BOT.	5100.48
1165	103			45	11	23.50	ST	#11 @12" SW BOT.	5618.50
1166	103			25	9	30.00	SL	#9 @12" LW TOP	2550.00
1167	103			25	9	20.33	ST	#9 @12" LW TOP	1728.31
1168	103			45	9	23.50	ST	#9 @12" SW TOP	3595.50
1169	103			7	4	30.00	SL	2-#4 CONT.	140.28
1170	103			3	4	30.00	ST	2-#4 CONT.	60.12
1171	103		4	2	4	4.83	HB	2-#4 COR.	25.83
1172	103			136	4	10.00	HB	#4 @12" C BARS	908.48
1173		CONCRETE PIER							
1174		18'-0"X6'-0"X6'-0"							
1175	103			80	9	12.58	HB	80-#9 D/V	3422.58
1176	109			8	4	56.33	LB	#4 @12" TIES	301.04
1177	109		4	8	4	18.42	LB	#4 @12" LINKS LW	393.66
1178	109		14	8	4	6.42	LB	#4 @12" LINKS SW	480.02
1179	103		4	12	9	12.58	HB	12-#9 D/V (4 PLACE)	2053.55
1180	109		4	8	4	10.08	LB	#4 @12" TIES (4 PLACE)	215.56
1181	109		4	8	4	5.75	LB	#4 @12" TIES (4 PLACE)	122.91
1182		7'-1"X5'-3"X6'-0"							
1183	103			35	9	12.58	HB	35-#9 D/V	1497.38
1184	109			8	4	23.91	LB	#4 @12" TIES	127.80
1185	109		3	8	4	7.50	LB	#4 @12" LINKS LW	120.22
1186	109		6	8	4	5.58	LB	#4 @12" LINKS SW	179.01
1187									
1188		<b>MK F-68</b>							
1189		REF:1627-F-F087							
1190		ISOLATED FOOTING							
1191		34'-0"X24'-0"X6'-0"							
1192	103			48	11	33.50	ST	#11 @6" LW BOT.	8543.30
1193	103			35	10	23.50	ST	#10 @12" SW BOT.	3539.22
1194	103			25	9	33.50	ST	#9 @12" LW TOP	2847.50
1195	103			35	9	23.50	ST	#9 @12" SW TOP	2796.50
1196	103			5	4	30.00	SL	2-#4 CONT.	100.20
1197	103			3	4	30.00	ST	2-#4 CONT.	60.12
1198	103		4	2	4	4.83	HB	2-#4 COR.	25.83
1199	103			116	4	10.00	HB	#4 @12" C BARS	774.88
1200		CONCRETE PIER							

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1201		18'-0"X6'-0"X6'-0"							
1202	103			80	9	12.58	HB	80-#9 D/V	3422.58
1203	109			8	4	56.33	LB	#4 @12" TIES	301.04
1204	109		4	8	4	18.42	LB	#4 @12" LINKS LW	393.66
1205	109		14	8	4	6.42	LB	#4 @12" LINKS SW	480.02
1206	103		4	12	9	12.58	HB	12-#9 D/V (4 PLACE)	2053.55
1207	109		4	8	4	10.08	LB	#4 @12" TIES (4 PLACE)	215.56
1208	109		4	8	4	5.75	LB	#4 @12" TIES (4 PLACE)	122.91
1209		7'-1"X3'-0"X6'-0"							
1210	103			31	9	12.58	HB	31-#9 D/V	1326.25
1211	109			8	4	19.58	LB	#4 @12" TIES	104.64
1212	109			8	4	7.50	LB	#4 @12" LINKS LW	40.07
1213	109		6	8	4	3.42	LB	#4 @12" LINKS SW	109.53
1214									
1215		<b>MK F-69</b>							
1216		REF:1627-F-F088							
1217		ISOLATED FOOTING							
1218		34'-0"X24'-0"X6'-0"							
1219	103			25	11	33.50	ST	#11 @12" LW BOT.	4449.64
1220	103			35	9	23.50	ST	#9 @12" SW BOT.	2796.50
1221	103			25	9	33.50	ST	#9 @12" LW TOP	2847.50
1222	103			35	9	23.50	ST	#9 @12" SW TOP	2796.50
1223	103			5	4	30.00	SL	2-#4 CONT.	100.20
1224	103			3	4	30.00	ST	2-#4 CONT.	60.12
1225	103		4	2	4	4.83	HB	2-#4 COR.	25.83
1226	103			116	4	10.00	HB	#4 @12" C BARS	774.88
1227		CONCRETE PIER							
1228		12'-9"X6'-0"X6'-0"							
1229	103			62	9	12.58	HB	62-#9 D/V	2652.50
1230	109			8	4	45.83	LB	#4 @12" TIES	244.93
1231	109		4	8	4	13.17	LB	#4 @12" LINKS LW	281.44
1232	109		10	8	4	6.42	LB	#4 @12" LINKS SW	342.87
1233	103		4	12	9	12.58	HB	12-#9 D/V (4 PLACE)	2053.55
1234	109		4	8	4	10.08	LB	#4 @12" TIES (4 PLACE)	215.56
1235	109		4	8	4	5.75	LB	#4 @12" TIES (4 PLACE)	122.91
1236		7'-1"X5'-3"X6'-0"							
1237	103			35	9	12.58	HB	35-#9 D/V	1497.38
1238	109			8	4	23.91	LB	#4 @12" TIES	127.80
1239	109		3	8	4	7.50	LB	#4 @12" LINKS LW	120.22
1240	109		6	8	4	5.58	LB	#4 @12" LINKS SW	179.01
1241									
1242		<b>MK F-70</b>							
1243		REF:1627-F-F064							
1244		ISOLATED FOOTING							
1245		16'-0"X6'-0"X6'-0"							
1246	103		2	12	10	15.50	ST	12-#10 LW BOT.	1600.72
1247	103		2	17	5	5.50	ST	#5 @12" SW BOT.	195.04
1248	103		2	6	10	15.50	ST	6-#10 LW TOP	800.36
1249	103		2	17	5	5.50	ST	#5 @12" SW TOP	195.04
1250	103		2	2	5	32.00	ST	2-#5 CONT.	133.50

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1251	103		2	2	5	24.00	HB	2-#5 CONT.	100.13
1252	103		2	44	5	10.00	HB	#5 @12" C BARS	917.84
1253		CONCRETE PIER							
1254		5'-4"X3'-0"X6'-0"							
1255	103	SECTION B-B	2	28	8	12.33	HB	28-#8 D/V	1844.03
1256	109		2	8	4	16.08	LB	#4 @12" TIES	171.86
1257	109		4	8	4	5.75	LB	#4 @12" LINKS LW	122.89
1258	109		8	8	4	3.42	LB	#4 @12" LINKS SW	146.04
1259									
1260		<b>MK F-73 @GRID C-1</b>							
1261		REF:1627-F-F091							
1262		ISOLATED FOOTING							
1263		44'-0"X20'-0"X6'-0"							
1264	103			40	10	30.00	SL	#10 @6" LW BOT.	5163.60
1265	103			40	10	19.33	ST	#10 @6" LW BOT.	3327.60
1266	103			45	10	19.50	ST	#10 @12" SW BOT.	3775.88
1267	103			21	9	30.00	SL	#9 @12" LW TOP	2142.00
1268	103			21	9	20.33	ST	#9 @12" LW TOP	1451.78
1269	103			45	9	19.50	ST	#9 @12" SW TOP	2983.50
1270	103			6	4	30.00	SL	2-#4 CONT.	120.24
1271	103			3	4	30.00	ST	2-#4 CONT.	60.12
1272	103		4	2	4	4.83	HB	2-#4 COR.	25.83
1273	103			128	4	10.00	HB	#4 @12" C BARS	855.04
1274		CONCRETE PIER							
1275		18'-0"X6'-0"X2'-0"							
1276	103			80	9	8.58	HB	80-#9 D/V	2334.58
1277	109			4	4	56.33	LB	#4 @12" TIES	150.52
1278	109		4	4	4	18.42	LB	#4 @12" LINKS LW	196.83
1279	109		14	4	4	6.42	LB	#4 @12" LINKS SW	240.01
1280	103		4	12	9	8.58	HB	12-#9 D/V (4 PLACE)	1400.75
1281	109		4	4	4	10.08	LB	#4 @12" TIES (4 PLACE)	107.78
1282	109		4	4	4	5.75	LB	#4 @12" TIES (4 PLACE)	61.46
1283									
1284		<b>MK F-71 @GRID A-0.1</b>							
1285		REF:1627-F-F090							
1286		CONCRETE PIER							
1287		16'-6"X6'-0"X6'-0"							
1288	109			76	9	7.83	ST	76-#9 VERT.	2024.05
1289	109			8	4	53.33	LB	#4 @12" TIES	285.01
1290	109		4	8	4	16.92	LB	#4 @12" LINKS LW	361.60
1291	109		14	8	4	6.42	LB	#4 @12" LINKS SW	480.02
1292	109		4	12	9	7.83	ST	12-#9 D/V (4 PLACE)	1278.35
1293	109		4	8	4	10.08	LB	#4 @12" TIES (4 PLACE)	215.56
1294	109		4	8	4	5.75	LB	#4 @12" TIES (4 PLACE)	122.91
1295	109		6	2	4	4.00	ST	2-#4 DWL. ES	32.06
1296									
1297		<b>MK F-72 @GRID B-0.1</b>							
1298		REF:1627-F-F090							
1299		CONCRETE PIER							
1300		16'-6"X6'-0"X6'-0"							

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1301	109			76	9	7.83	ST	76-#9 VERT.	2024.05
1302	109			8	4	53.33	LB	#4 @12" TIES	285.01
1303	109		4	8	4	16.92	LB	#4 @12" LINKS LW	361.60
1304	109		14	8	4	6.42	LB	#4 @12" LINKS SW	480.02
1305	109		4	12	9	7.83	ST	12-#9 D/V (4 PLACE)	1278.35
1306	109		4	8	4	10.08	LB	#4 @12" TIES (4 PLACE)	215.56
1307	109		4	8	4	5.75	LB	#4 @12" TIES (4 PLACE)	122.91
1308	109		6	2	4	4.00	ST	2-#4 DWL. ES	32.06
1309									
1310		<b>MK F-73 @GRID C-0.1</b>							
1311		REF:1627-F-F090							
1312		CONCRETE PIER							
1313		16'-6"X6'-0"X6'-0"							
1314	109			76	9	7.83	ST	76-#9 VERT.	2024.05
1315	109			8	4	53.33	LB	#4 @12" TIES	285.01
1316	109		4	8	4	16.92	LB	#4 @12" LINKS LW	361.60
1317	109		14	8	4	6.42	LB	#4 @12" LINKS SW	480.02
1318	109		4	12	9	7.83	ST	12-#9 D/V (4 PLACE)	1278.35
1319	109		4	8	4	10.08	LB	#4 @12" TIES (4 PLACE)	215.56
1320	109		4	8	4	5.75	LB	#4 @12" TIES (4 PLACE)	122.91
1321	109		6	2	4	4.00	ST	2-#4 DWL. ES	32.06
1322									
1323		<b>GRADE BEAM</b>							
1324		REF:1627-F-F070 & 1627-F-F071							
1325		GB-1, GB-15, GB-16							
1326	106	1'-0"X6'-0"	2	2	6	30.00	SL	2-#6 CONT.	180.24
1327	106			2	6	203.50	ST	2-#6 CONT.	611.31
1328	106		2	6	6	30.00	SL	6-#6 CONT.	540.72
1329	106			6	6	205.17	ST	6-#6 CONT.	1848.96
1330	106			265	4	9.25	LB	#4 @12" STIRR.	1637.08
1331		GB-2, GB-9							
1332	106	1'-0"X7'-0"		2	9	31.33	ST	2-#9 CONT.	213.06
1333	106			8	9	31.33	ST	8-#9 CONT.	852.26
1334	106			32	4	11.25	LB	#4 @12" STIRR.	240.44
1335		GB-3, GB-10, GB-11							
1336	106	2'-0"/1'-0"X7'-0"	6	5	9	30.00	SL	5-#9 CONT.	3060.00
1337	106			5	9	93.50	ST	5-#9 CONT.	1589.50
1338	106		6	11	9	30.00	SL	11-#9 CONT.	6732.00
1339	106			11	9	103.00	ST	11-#9 CONT.	3852.13
1340	106			248	4	13.25	LB	#4 @12" STIRR.	2194.72
1341		GB-4, GB-17, GB-18, GB-19, GB-21, GB-22, GB-23, GB-24, GB-28							
1342	106	2'-6"/1'-0"X7'-0"	4	3	9	30.00	SL	3-#9 CONT.	1224.00
1343	106			3	9	304.00	ST	3-#9 CONT.	3100.80
1344	106		4	9	9	30.00	SL	9-#9 CONT.	3672.00
1345	106			9	9	310.33	ST	9-#9 CONT.	9496.16
1346	106			416	4	14.25	LB	#4 @12" STIRR.	3959.35
1347		GB-5							
1348	106	1'-6"/1'-0"X7'-0"	3	3	9	30.00	SL	3-#9 CONT.	918.00
1349	106			3	9	39.75	ST	3-#9 CONT.	405.45
1350	106		3	11	9	30.00	SL	11-#9 CONT.	3366.00

**ESTIMATED TAKEOFF  
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Bid Date: 03/16/2021

LINE	CODE	ELEMENTS	MULTI	QTY	BAR SIZE	LENGTH 'FT'	BEND TYPE	REMARKS	WEIGHT 'LBS'
1351	106			11	9	44.50	ST	11-#9 CONT.	1664.26
1352	106			118	4	12.25	LB	#4 @12" STIRR.	965.44
1353		GB-6							
1354	106	1'-0"X4'-0"	6	2	6	30.00	SL	2-#6 CONT.	540.72
1355	106			2	6	700.50	ST	2-#6 CONT.	2104.30
1356	106		6	6	6	30.00	SL	6-#6 CONT.	1622.16
1357	106			6	6	705.50	ST	6-#6 CONT.	6357.95
1358	106			892	4	9.25	LB	#4 @12" STIRR.	5510.48
1359		GB-7							
1360	106	1'-0"X5'-0"	26	2	9	30.00	SL	2-#9 CONT.	5304.00
1361	106			2	9	354.25	ST	2-#9 CONT.	2408.90
1362	106		26	8	9	30.00	SL	8-#9 CONT.	21216.00
1363	106			8	9	393.83	ST	8-#9 CONT.	10712.04
1364	106			994	4	11.25	LB	#4 @12" STIRR.	7468.58
1365		GB-8							
1366	106	1'-6"X5'-0"	21	3	9	30.00	SL	3-#9 CONT.	6426.00
1367	106			3	9	670.25	ST	3-#9 CONT.	6836.55
1368	106		21	11	9	30.00	SL	11-#9 CONT.	23562.00
1369	106			11	9	703.49	ST	11-#9 CONT.	26310.64
1370	106			1222	4	12.25	LB	#4 @12" STIRR.	9997.99
1371		GB-29, GB-30							
1372	106	2'-6"X5'-0"		3	9	57.00	ST	3-#9 CONT.	581.40
1373	106			9	9	57.00	ST	9-#9 CONT.	1744.20
1374	106			60	4	14.25	LB	#4 @12" STIRR.	571.06
1375		GB-31							
1376	106	2'-0"X5'-0"		5	9	30.00	SL	5-#9 CONT.	510.00
1377	106			5	9	22.25	ST	5-#9 CONT.	378.25
1378	106			11	9	30.00	SL	11-#9 CONT.	1122.00
1379	106			11	9	23.83	ST	11-#9 CONT.	891.35
1380	106			48	4	13.25	LB	#4 @12" STIRR.	424.78
1381									
1382		1'-0" THK GRADE BEAM @PERIMETER							
1383	106			156	6	30.00	SL	4-#6 CONT.	7029.36
1384	106			1020	4	8.33	HB	#4 @12" U BAR	5677.09
1385									
1386	106			46	9	30.00	SL	4-#9 CONT.	4692.00
1387	106			285	4	8.33	HB	#4 @12" U BAR	1586.25
1388	106			4	9	13.67	HB	4-#9 COR.	185.86
1389									
1390		DOWELS FROM PIER TO GRADE BEAM							
1391	109		4	14	9	14.42	HB	14-#9 DWL.	2744.81
1392									
1393	109		2	14	9	14.42	HB	14-#9 DWL.	1372.40
1394	109		2	14	9	14.00	ST	14-#9 DWL.	1332.80
1395	109		1	8	6	7.50	ST	8-#6 DWL.	90.12
1396	109		4	8	6	13.50	ST	8-#6 DWL.	648.86
1397	109		2	14	9	14.42	HB	14-#9 DWL.	1372.40
1398	109		2	14	9	14.42	HB	14-#9 DWL.	1372.40
1399	109		1	8	6	13.50	ST	8-#6 DWL.	162.22
1400	109		1	8	6	10.58	HB	8-#6 DWL.	127.17

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LINE	CODE	ELEMENTS	MULTI	QTY	BAR SIZE	LENGTH 'FT'	BEND TYPE	REMARKS	WEIGHT 'LBS'
1401	109		1	8	6	10.58	HB	8-#6 DWL.	127.17
1402	109		1	8	6	7.50	ST	8-#6 DWL.	90.12
1403									
1404	109		2	14	9	14.42	HB	14-#9 DWL.	1372.40
1405	109		2	14	9	14.00	ST	14-#9 DWL.	1332.80
1406	109		1	8	6	7.50	ST	8-#6 DWL.	90.12
1407	109		1	8	6	13.50	ST	8-#6 DWL.	162.22
1408	109		1	10	9	14.42	HB	10-#9 DWL.	490.14
1409	109		2	10	9	20.00	ST	10-#9 DWL.	1360.00
1410	109		3	14	9	14.42	HB	14-#9 DWL.	2058.60
1411	109		1	8	9	14.42	HB	8-#9 DWL.	392.12
1412	109		1	8	6	7.50	ST	8-#6 DWL.	90.12
1413	109		3	8	6	13.50	ST	8-#6 DWL.	486.65
1414	109		1	8	6	10.58	HB	8-#6 DWL.	127.17
1415									
1416	109		2	14	9	14.42	HB	14-#9 DWL.	1372.40
1417	109		2	14	9	14.00	ST	14-#9 DWL.	1332.80
1418	109		1	8	6	7.50	ST	8-#6 DWL.	90.12
1419	109		1	8	6	13.50	ST	8-#6 DWL.	162.22
1420	109		1	10	9	14.42	HB	10-#9 DWL.	490.14
1421	109		1	10	9	20.00	ST	10-#9 DWL.	680.00
1422	109		1	10	9	14.42	HB	10-#9 DWL.	490.14
1423	109		4	8	6	13.50	ST	8-#6 DWL.	648.86
1424	109		4	14	9	14.42	HB	14-#9 DWL.	2744.81
1425	109		1	8	6	13.50	ST	8-#6 DWL.	162.22
1426	109		1	8	6	7.50	ST	8-#6 DWL.	90.12
1427	109		2	8	6	7.50	ST	8-#6 DWL.	180.24
1428									
1429	109		14	8	6	7.50	ST	8-#6 DWL.	1261.68
1430	109		4	10	9	13.67	ST	10-#9 DWL.	1858.58
1431	109		8	14	9	14.00	ST	14-#9 DWL.	5331.20
1432	109		2	12	9	14.00	ST	12-#9 DWL.	1142.40
1433	109		2	12	9	22.00	ST	12-#9 DWL.	1795.20
1434									
1435	109		14	8	6	7.50	ST	8-#6 DWL.	1261.68
1436	109		4	10	9	13.67	ST	10-#9 DWL.	1858.58
1437	109		8	14	9	14.00	ST	14-#9 DWL.	5331.20
1438	109		4	14	9	22.00	ST	14-#9 DWL.	4188.80
1439	109		2	12	9	14.00	ST	12-#9 DWL.	1142.40
1440	109		1	12	9	22.00	ST	12-#9 DWL.	897.60
1441									
1442	109		2	16	9	14.00	ST	16-#9 DWL.	1523.20
1443	109		2	14	9	14.00	ST	14-#9 DWL.	1332.80
1444	109		2	14	9	14.00	ST	14-#9 DWL.	1332.80
1445	109		2	10	9	14.00	ST	10-#9 DWL.	952.00
1446	109		1	12	9	14.00	ST	12-#9 DWL.	571.20
1447	109		2	12	9	22.00	ST	12-#9 DWL.	1795.20
1448	109		2	5	9	22.00	ST	5-#9 DWL.	748.00
1449	109		2	7	9	14.00	ST	7-#9 DWL.	666.40
1450	109		2	11	9	14.00	ST	11-#9 DWL.	1047.20



**ESTIMATED TAKEOFF**  
**AM CALVERT MELT SHOP**

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LINE	CODE	ELEMENTS	MULTI	QTY	BAR SIZE	LENGTH 'FT'	BEND TYPE	REMARKS	WEIGHT 'LBS'
1451	109		1	16	9	22.00	ST	16-#9 DWL.	1196.80
1452	109		2	14	9	14.00	ST	14-#9 DWL.	1332.80
1453	109		4	12	9	22.00	ST	12-#9 DWL.	3590.40
1454	109		1	12	9	14.00	ST	12-#9 DWL.	571.20
1455									
1456	109		1	10	9	11.42	HB	10-#9 DWL.	388.14
1457	109		1	10	9	17.00	ST	10-#9 DWL.	578.00
1458	109		4	10	9	14.00	ST	10-#9 DWL.	1904.00
1459	109		1	5	9	17.00	ST	5-#9 DWL.	289.00
1460	109		1	5	9	14.00	ST	5-#9 DWL.	238.00
1461	109		1	11	9	14.00	ST	11-#9 DWL.	523.60
1462	109		1	16	9	14.00	ST	16-#9 DWL.	761.60
1463									
1464	109		2	10	9	13.75	ST	10-#9 DWL.	934.93
1465	109		1	10	9	17.00	ST	10-#9 DWL.	578.00
1466									
1467	109		2	10	9	13.75	HB	10-#9 DWL.	934.93
1468									
1469	109		1	10	9	11.42	HB	10-#9 DWL.	388.14
1470	109		1	10	9	14.42	HB	10-#9 DWL.	490.14
1471									
1472	109		2	10	9	13.42	HB	10-#9 DWL.	912.29
1473	109		1	10	9	17.00	ST	10-#9 DWL.	578.00
1474									
1475		<b>SCRAP PIT</b>							
1476		REF:1627-F-F080							
1477		MAT SLAB							
1478	186	4'-0" THK	2	37	9	43.50	ST	#9 @12" LW T&B	10944.60
1479	186		2	45	9	35.50	ST	#9 @12" SW T&B	10863.00
1480	186			99	6	9.33	HB	#6 STANDEE	1387.95
1481	186			6	4	30.00	SL	#4 CONT.	120.24
1482	186		4	1	4	4.83	HB	#4 COR.	12.92
1483	186			160	4	8.00	HB	#4 @12" C BARS	855.04
1484		<b>CONCRETE WALL</b>							
1485	186	36"/30" THK		300	8	9.17	HB	#8 @12" DWL. IF & OF	7341.97
1486	186			300	8	24.83	ST	#8 @12" VERT. IF & OF	19891.23
1487	186		8	50	10	30.00	SL	#10 @6" HORZ. EF	51636.00
1488	186		2	50	10	70.33	ST	#10 @6" HORZ. EF	30263.86
1489	186		8	50	10	15.17	HB	#10 COR. EF	26103.72
1490									
1491									
1492									
1493									
1494									
1495									
1496									
1497									
1498									
								<b>Total Weight</b>	<b>5222311.85</b>