

1                   **SECTION 607 - CHAIN LINK FENCES AND GATES**

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3       Make the following amendment to said Section:

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5       **(I)**       Amend **Section 607 - Chain Link Fences and Gates** to read as follows:

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7       **"607.01       Description.** Furnish materials, labor and equipment necessary to  
8       install all chain link fences to the limits shown and as detailed on the plan and as  
9       specified herein.

10  
11       **607.02       Materials.**

12  
13               **(A)       Materials.**

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15               **(1)**       Asbestos Prohibition: No asbestos containing materials shall be  
16               used under this section. The Contractor shall insure that all materials  
17               incorporated in the project are asbestos-free unless specifically  
18               approved in writing by the Engineer.

19  
20               **(2)**       Chain Link Fence Fabric shall be 2-inch Black vinyl clad 9  
21               gauge minimum mesh unless otherwise shown or specified. All mesh  
22               shall be galvanized and conform to ASTM A392, Class 1. The  
23               hot-dipped galvanized fabric shall contain not less than 1.2 ounces per  
24               sq. ft. of uncoated wire surface as determined by stripping test ASTM  
25               A90 and under the PREECE Test (ASTM A239), shall withstand 6 or  
26               more 1-minute dips before reaching the end point. All fabric shall be  
27               free from barbs, icicles or other hazardous projections resulting from  
28               galvanizing. Aluminum clad fabric shall be an acceptable alternate to  
29               the hot-dipped galvanized fabric provided it is of the same gauge as  
30               the latter.

31  
32               **(3)**       Tie Wire shall be 12-gauge soft annealed galvanized steel wire  
33               as called for on plans.

34  
35               **(4)**       Tension Bar shall be 1/4" thick by 3/4" wide mild steel bar for  
36               attachment of a fabric to a terminal post.

37  
38               **(5)**       Brace Band shall be formed from steel bands at least 1/8" thick  
39               by 3/4" wide.

40  
41               **(6)**       Tension Band shall be formed from steel bands at least 12  
42               gauge thick by 3/4" wide.

43  
44               **(7)**       Tension Rod shall be a 3/8" dia. mild steel rod threaded at one  
45               end hooked 180 degrees at the other.

46  
47 (8) Fittings:  
48

49 a) Post Cap and Eye Top shall be of one-piece cast iron  
50 construction and shall attach securely onto their respective  
51 posts.  
52

53 b) Coupling for top rails shall be outside sleeve type, at  
54 least 6 inches long and crimped at center.  
55

56 c) Rail Ends shall be snug, one-piece fittings for top and  
57 brace rails with holes to receive 5/16" bolts for securing to rail  
58 end bands.  
59

60 d) Double Rail End shall be similar to rail and except for an  
61 additional 1/2" hole to receive the hooked end of a tension rod.  
62

63 (9) Composition and Finish of Metal Parts: All metal parts and  
64 fittings, including tracks, gate hardware and frames, shall be of steel,  
65 malleable iron or wrought iron and shall be galvanized by the hot-dip  
66 process, after fabrication, in conformance with ASTM A153. The  
67 coating on all parts shall be continuous and smooth; that is, free from  
68 barbs, icicles or other projections. Bolts may be cadmium-plated in  
69 conformance with ASTM A165 instead.  
70

71 (10) Paint: All metal surfaces shall be painted with an oil-based  
72 Gray primer to 1-2 mils film thickness and oil-based Flat Black enamel  
73 finish, 1-2 mils minimum film thickness.  
74

75 Primer and black enamel paints shall be "Rustoleum 3700 System  
76 DTM Acrylic Enamel" or pre-approved equal.  
77

78 All galvanized surfaces shall be cleaned and etched per the paint  
79 manufacturer's recommendations for newly galvanized surfaces, prior  
80 to painting to ensure paint adhesion. The Contractor shall verify with  
81 paint manufacturer that it is compatible with hot-dipped galvanized  
82 metal surfaces.  
83

84 (11) Posts (including supplemental posts), Rails and Braces shall be  
85 of either standard weight, hot-dipped galvanized, welded and  
86 seamless steel pipes conforming to ASTM A120 or hot-dipped  
87 galvanized pipes with chromate conversion and polyurethane coatings  
88 ("Tuf 40" by American Tube Co., Inc. or pre-approved equal). Posts  
89 of the latter type of pipes shall be sized in accordance with  
90 and have the minimum properties shown on the design documents.

91  
92 (12) Tension Wire shall be of 7-gauge coiled spring or 6-gauge plain  
93 galvanized wire.

94  
95 (13) Concrete for post footings shall be Class B.

96  
97 **607.03 Construction.**

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99 **(A) Installation and Workmanship.**

100  
101 **(1) General.**

102  
103 a) Metal fencing of the various types called for shall be  
104 erected in strict conformance with the plans and these  
105 specifications. Posts shall be plumb and in line. Welding shall  
106 be done in accordance with latest AWS standards. However,  
107 no splicing of posts, rails or braces shall be accepted. Where  
108 changes in line occur with an angle of deflection of 30 degrees  
109 or more, the change point will be considered a corner and a  
110 corner post shall be installed thereat. End and corner posts  
111 for fences with 5-foot and wider fabric shall be braced to the  
112 nearest line post with horizontal braces and tension rods. The  
113 horizontal braces shall be spaced midway between top rail  
114 and ground and securely fastened to posts as shown on  
115 plans. Where fencing is placed along a curve with radius of  
116 50 feet, or less, horizontal braces (and tension rods) shall be  
117 installed between all posts in like manner. Pull posts, at  
118 maximum intervals of 300 feet, shall be braced and trusses in  
119 both directions as specified above.

120  
121 b) Field Touch-Ups: Field welds shall be cleaned of flux  
122 and spatter and all damaged galvanizing removed, all  
123 hazardous projections ground off, properly prepared, and then  
124 heavily coated with self-curing inorganic zinc coating.  
125 Manufactured coatings shall be applied in strict accordance  
126 with manufacturer's printed specifications. Damage to painted  
127 surfaces shall be touched up per the paint manufacturer's  
128 instructions.

129  
130 (2) Fence Posts, except as otherwise indicated or specified, shall  
131 be installed at locations as specified in the contract documents and  
132 spaced not more than 10 feet apart. In curved fence sections having  
133 a radius of 50 feet or less, the posts shall be spaced as shown on the  
134 plans. Line posts shall be set so that top of the eye tops shall be at  
135 the same height as the fence fabric.

Supplemental fence posts shall be provided and installed at locations where the maximum spacing between the bottom of the fence and the slope surface exceeds 6 inches due to the existing uneven terrain caused by depressions, cavities, protrusions, etc. Supplemental fence posts shall be installed similar to other chain link fence posts in accordance with the contract documents.

(3) Top Rails shall pass through and bear firmly on base of eye tops, form a continuous brace from end to end of each stretch of fence, and be securely fastened to terminal posts with rail ends and brace bands. Couplings for the top rails shall be installed at intervals of 24 feet maximum.

(4) Chain Link Fabric shall be fastened on the side of the posts as designated and shall be mounted on the posts so that the bottom of the fabric will be no more above the finished grade than called for on the plans. High points of the ground shall be excavated as necessary. The fabric shall be stretched taut and securely fastened to the posts. Ends of wire ties shall be bent back so as not to be a hazard. Between posts the top edge of the fabric shall be fastened to the top rail and the lower edge to the tension wire with tie wire of size and at spacing as called for on the plans. Tension wire shall be stretched tight and shall be installed in a straight line between posts. Tension bars extending the full height of the fence and tension bar bands shall be used for fastening fabric to end, corner, pull and gate posts. Bolted tension bar bands shall be placed at top and bottom of tension bars and spaced at 12-inch intervals. Fastenings to line posts shall be made with tie wire of size and at spacing as called for on the plans.

**(B) Final Clean-up.** All exposed fence surfaces shall be clean and free of cement. All surplus earth resulting from metal fencing work that is not used in the grading work shall be cleaned up and disposed of off-site. All debris resulting from work of this section shall be removed from the site.

**607.04 Measurement.** Chain link fence shall be measured per linear foot in accordance with the contract documents, inclusive of all crew labor and materials.

Supplemental fence posts shall be measured at the contract unit price per each post installed. All costs for material and labor associated with supplemental fence post installation shall be considered incidental.

**607.05 Payment.** The Engineer will pay for the accepted pay item listed below at the contract price per pay unit, as shown in the proposal schedule. Payment will be in full compensation for the work prescribed in this section and the contract documents.

181	<b>Pay Item</b>	<b>Pay Unit</b>
182		
183	4-Foot High Chain Link Fence	Linear Foot
184		
185	Supplemental Fence Posts	Each"
186		
187		
188		
189	<b>END OF SECTION 607</b>	