

SECTION 02711

VINYL CLAD CHAIN LINK FENCING

PART 1.00 – GENERAL

1.01 DESCRIPTION OF WORK

- A. Provide all materials, equipment, and labor necessary to complete the work as indicated on the drawings or as specified herein.
- B. The principal work of this Section includes:
  - 1. Installation of 4-foot high fencing along the first and third base lines and outfield.
  - 2. Installation of 6-foot high fencing in-front of dugout areas.
  - 3. Installation of fencing for new dugouts
  - 4. Installation of fence gates
  - 5. Excavation for post bases.
  - 6. Installation of baseball backstop.

1.02 REFERENCES

- A. ASTM STANDARDS
  - 1. A120 – Pipe, Steel, Green, and Hot-dipped zinc coated (Galvanized) welded and seamless, for ordinary use.
  - 2. A123 – Zinc (hot galvanized) coatings of products fabricated from rolled, presses and forged steel shapes, plates, bars and strips.
  - 3. F567 – Installation of chain – link fence
- B. Federal Standard (RS) RR-F-191 – Fencing, wire and post, metal.

1.03 SUBMITTALS

- A. Submit shop drawings for fences, gates, dugouts, and backstops.
- B. Include layout, spacing of components, accessories, fittings, anchorages, and schedule of components.

- C. Submit manufacturer's installation instructions, if any.
- D. Submit sample of fence fabric finish, color and gauges. Sample size to be 6" x 12" minimum.

## PART 2 – PRODUCTS

### 2.01 MATERIALS

#### A. FABRIC

- 1. Vinyl-coated chain link fabric shall be No. 9 gauge with a uniform square mesh measuring approximately two (2) inches between its parallel sides, woven with "Permafused" wire having a core which shall consist of a primed zinc coated steel to which seven (7) mil coating of Polyvinyl Chloride (PVC) has been bonded by the fusion method. The vinyl in the coating shall have a maximum specific gravity of 1.33, be evenly applied and free of blisters with the bond between the vinyl coating and the steel wire equal or greater than the cohesive strength of vinyl. The color of the coating shall be green (base bid). The minimum breaking strength of the coated wire shall be eight hundred fifty pounds (850 lbs).
- 2. The fabric shall be installed opposite the playing side of the posts. The bottom of the fence fabric shall be three-quarters of an inch (3/4") plus or minus one-quarter (1/4") inch above the finished surface. Fabric shall be furnished with salvages knuckled on both edges. Ends of each wire strand shall be coated with vinyl at the factory during the weaving process.

#### B. LINE POSTS

- 1. The line posts for the chain link fence shall be 2 ½ inch O.D., schedule 40 as shown on the plans.

#### C. FITTINGS

- 1. All fixed component parts, such as post tops, bands, connectors, boulevard clamps, and rail ends, shall be vinyl coated on visible surfaces. Non-visible portions of parts may be uncoated in the case of aluminum components. Non-visible portions of steel or iron components not vinyl-coated must be coated with a zinc coating of not less than 1.8 ounces of zinc per square foot of uncoated surface. All threaded parts shall be coated in the field with a vinyl-based compound after installation.

D. TERMINAL, CORNER, ANGLE, AND GATE POSTS

1. Terminal, corner, angle, and gate posts shall be two and one-half inch (2 ½ ) round vinyl coated steel weighing 7.04 pounds per lineal foot, unless otherwise shown. Fabric shall be attached to these posts by means of vinyl coated or fiberglass reinforced (40 minimum glass content) bar held in place by clips spaced approximately fifteen (15”) inches apart.

E. TOP, MIDDLE, BOTTOM, AND CORNER BRACE RAILS

1. The top, middle, bottom, and corner brace rails shall be one and five-eighths inch (1 5/8”) outside diameter vinyl-coated steel pipe, schedule 40, weighing 2.27 pounds per lineal foot. The top rail shall pass through openings provided in the vinyl-coated post tops and each length shall be coupled with a vinyl-coated sleeve six (6”) inches long. Fabric shall be attached to the top and bottom rail by means of a double wrap of “Permafused” vinyl coated tie wire spaced at intervals of approximately two (2’) feet. The bottom rail shall be attached to the corner and line posts using boulevard clamps or bands and rail and cups as appropriate.
2. Brace rails shall be schedule 40 vinyl coated steel pipe and be installed between each terminal post and the next adjacent line post. Each brace rail shall have attachments for a 5/16-inch vinyl coated truss rod and turn buckle attachment.

F. COATING

1. The framework consisting of line posts, terminal posts, top rail, bottom rail, braces, and gate frames shall be “Permafused” with Polyvinyl Chloride (PVC) coating. The thickness of the coating shall be 7 mils. The vinyl shall be plasticized and thoroughly compounded so there are no undispersed pigments, stabilizers, or other discrete particles present. The color shall match the fabric (green).

G. FENCE COLOR

1. Fence color shall be green (base bid). Alternate color shall be black.

2.02 CONCRETE MIX

- A. Cement concrete to be used shall be class "B", unless otherwise specified, according to the classification defined in the RIDOT Standard Specifications and shall meet the following requirements:

Class: B

Min. Cement Content: 517 lbs/cubic yard

Min. Compressive Strength: 3000 lbs/sq. inch

Type of Cement: 2

Max Aggregate Size: ¾ inch

% Air Entrainment: 5

PART 3 – EXECUTION

3.01 FENCE INSTALLATION

- A. Install new fencing as indicated and directed.
- B. Provide dimensions as indicated and space line posts at intervals indicated.
- C. Excavate holes for concrete with vertical side in cylindrical form.
- D. Setting new posts:
1. Remove loose and foreign materials from sides and bottom of holes, and moisten soil prior to placing concrete.
  2. Center and align posts.
  3. Place concrete around posts in a continuous pour, and vibrate or tamp for consolidation.
  4. Check each post for vertical and top alignment, and hold in position during placement.
  5. Top of concrete footing shall be four (4") inches below finished grade.
  6. Keep exposed concrete surfaces moist for at least seven (7) days after placement.
  7. Posts for gates shall be set in concrete bases to a depth of three (3') feet.

E. CONCRETE STRENGTH

1. Allow concrete to attain at least seventy-five (75) percent of its minimum twenty-eight (28) day strength before rails, tension wire, and fabric are installed.
2. Do not, in any case, install such items in less than seven (7) days after placement of concrete.
3. Do not stretch and tension fabric and wire until concrete has attained its full design strength.

F. Stretch fabric between terminal posts.

G. Perimeter fencing on gates: Install fabric one (1) inch above finished grade.

H. Provide top rail through line post tops and splice with seven (7) inch long rail sleeve.

I. Fasten fabric to top rail, line posts, and bottom tension wire or bottom rail with ties maximum fifteen (15) inches on centers.

J. Install bottom tension wire stretched taut between terminal posts.

K. Provide bottom rails where indicated.

L. All fencing shall be protected from damage until accepted. Any damage items shall be removed and replaced at no expense to the CITY. Repairing of damaged items will not be acceptable. Damage items and waste material shall be disposed of off-site by the CONTRACTOR.

END OF SECTION

SECTION 02989

MISCELLANEOUS WORK AND CLEAN UP

PART 1.00 – GENERAL

1.01 DESCRIPTION

A. Work Included:

Furnish all labor, materials, equipment and incidentals require to do all miscellaneous work and cleaning up not otherwise specified. The work of this Section includes, but is not limited, to the following:

1. Construction layout of all new fencing to be installed including dugout areas and all other necessary layout work to complete the project.
2. Pouring of concrete for all footings for fence posts.
3. Touch up painting of fence and other appurtenances, if needed.
4. Restoration, repair or replacement of existing catch basins, sewer manholes, sewer and drainage pipe, water and sewer services if encountered or damaged during construction.
9. Cleaning up the construction site.
10. All other work incidental to completing the project.

PART 2.00 – PRODUCTS

None this Section

PART 3.00 – EXECUTION

3.01 CLEAN UP

- A. The Contractor shall remove all construction material, excess excavation, equipment or other debris remaining on the job as a result of construction operations and shall render the site of the work in a neat and orderly condition at least equal to that which existed prior to the start of construction

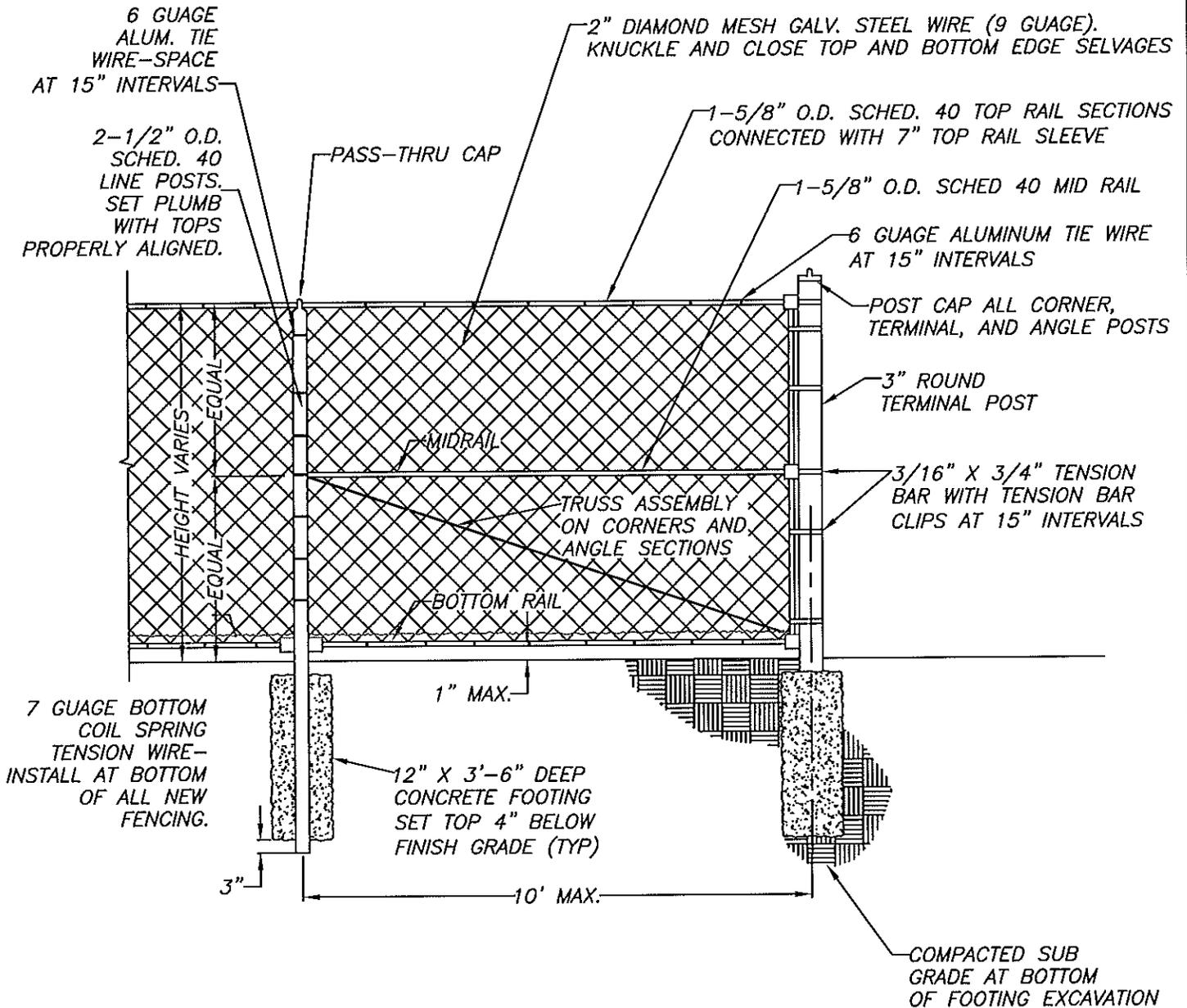
END OF SECTION



**CITY OF EAST PROVIDENCE  
DEPARTMENT OF PUBLIC WORKS  
ENGINEERING DIVISION  
STANDARD DETAIL**



**CHAIN LINK FENCE (VINYL-COATED)**



**NOTES:**

1. ALL COMPONENTS OF FENCE TO BE COATED BY A THERMAL FUSION PROCESS WITH PVC, 10-15 MILS THICK.
2. FENCE COMPONENTS TO BE AS MANUFACTURED BY ANCHOR FENCE, INC., OR APPROVED EQUAL.

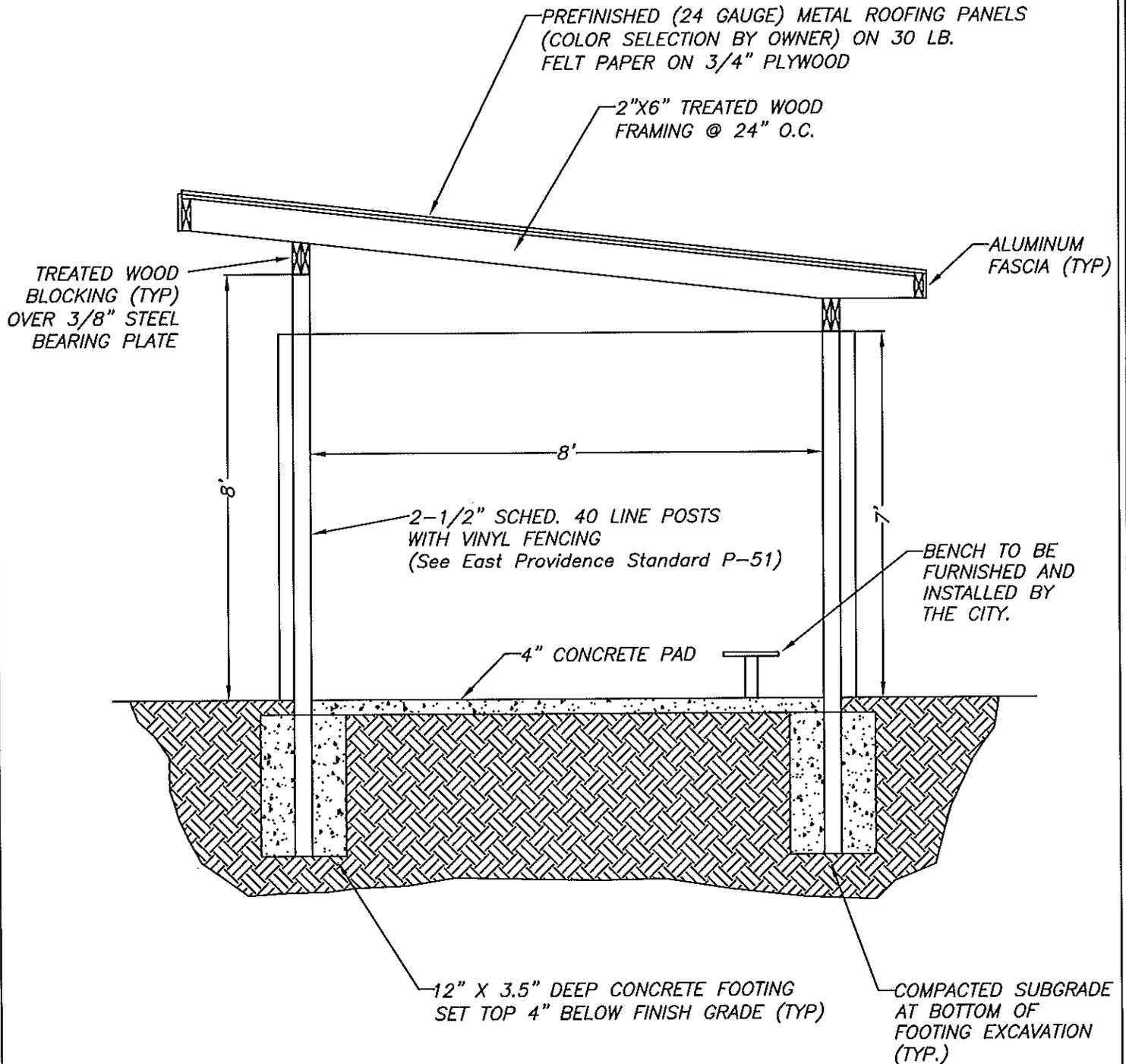
REV. BY	DATE	REV. BY	DATE	DRAWN BY: E. GERMANI IV	DATE: 6/18/99
SHC	7/7/15			APPROVED BY: STEPHEN H. COUTU, P.E. CITY ENGINEER/DEPUTY D.P.W.	DATE: 6/18/99
					SCALE: NTS



**CITY OF EAST PROVIDENCE  
DEPARTMENT OF PUBLIC WORKS  
ENGINEERING DIVISION  
STANDARD DETAIL**



**DUGOUT DETAIL (SECTION)  
30' X 8' DUGOUT**



REV. BY	DATE	REV. BY	DATE	DRAWN BY: E. GERMANI IV	DATE: 6/26/15
				APPROVED BY: STEPHEN H. COUTU, P.E. DIRECTOR OF PUBLIC WORKS	DATE: 6/26/15
					SCALE: NTS

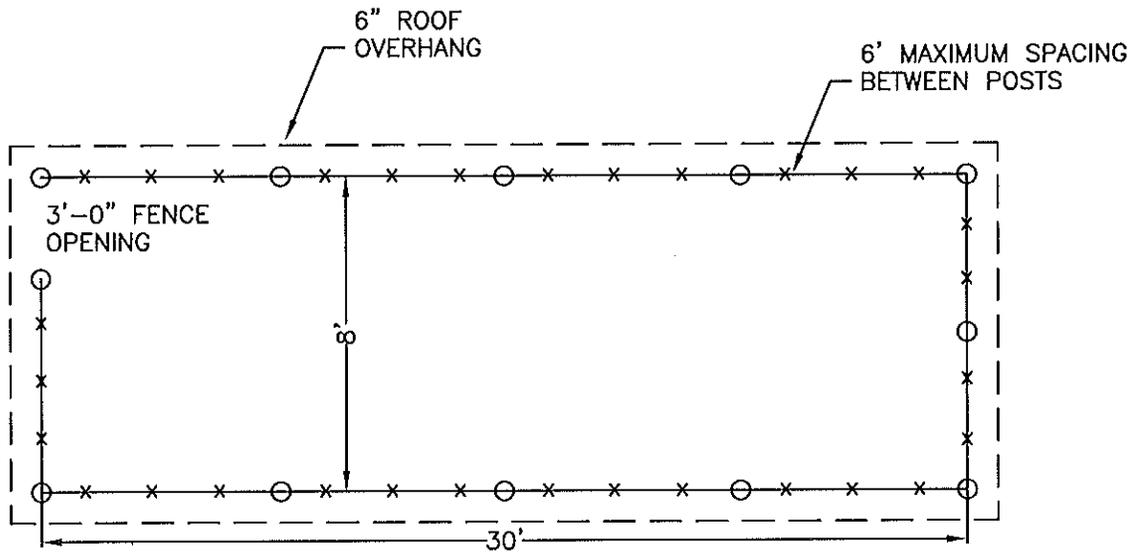


**CITY OF EAST PROVIDENCE  
DEPARTMENT OF PUBLIC WORKS  
ENGINEERING DIVISION  
STANDARD DETAIL**



**DUGOUT DETAIL (PLAN VIEW)  
30' X 8' DUGOUT**

INFIELD AREA



REV. BY	DATE	REV. BY	DATE	DRAWN BY: E. GERMANI IV	DATE: 7/7/15
				APPROVED BY: STEPHEN H. COUTU, P.E. CITY ENGINEER/DEPUTY D.P.W.	DATE: 7/7/15
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