FIBERGLASS OPEN GRATING FOR CATWALKS: Provide Fiberglass Open Grating for catwalks called for in the Plans. Fiberglass Open Grating shall be a heavy duty design suitable for exterior installations. Maximum gap opening on the walkway surface shall be 1½”. Design live loads and deflections shall be a 50 psf uniformly distributed load with a maximum deflection of 8/6 or 1/120 at the center of a simple span and a concentrated load of 250 pounds with a maximum deflection of ½” at the center of a simple span. Color of Fiberglass Open Grating shall be gray or black.

Install Fiberglass Open Grating according to manufacturer’s recommendations using stainless steel hardware, screws, bolts, nuts and washers. Attach Fiberglass Open Grating to Wales and Deck Supports at a 2’-0” maximum spacing so as to resist pedestrian live loads and uplift forces from wind, buoyancy and wave action.

CLEARANCE GAUGE AND LIGHT: Clearance Gauge to be furnished by the FDOT and erected by the Contractor. Clearance Gauge width and numeral height is dependent on visibility distance. The required visibility distance shall be determined by the United States Coast Guard District Commander. Provide and install Clearance Gauge Light in accordance with Specification Section 510 and Index No. 21220.

NAVIGATION LIGHTS: Provide and install Navigation Lights in accordance with Specification Section 510, Index No. 21220 and/or project specific details. Provide and maintain Temporary Navigation Lights during construction until permanent Navigation Lights are operational.

BOLTS, THREADED BARS, NUTS, SCREWS AND WASHERS: Furnish stainless steel Bolts in accordance with ASTM F593 Type 316. Furnish stainless steel Threaded Bars in accordance with ASTM A193 Grade B8M. Furnish stainless steel Nuts in accordance with ASTM F594 Type 316. Furnish stainless steel Screws in accordance with ASTM A240 Type 316. Furnish stainless steel Bolt Nuts and Washers compatible with Bolts, Threaded Rods and Nuts under heads and nuts. Torque Nuts on 1” diameter Bolts and Threaded Bars to 150 lb-ft. Keep threads on Bolts, Threaded Bars and Nuts free from dirt, coarse grime and sand to prevent galling and seizing during tightening.

SPICE PLATES: Furnish Splice Plates in accordance with ASTM A240 Type 316.
SCHEMATIC OF FENDER SYSTEM SHOWING TREATMENT OF SINGLE FIXED BRIDGE WITH NONSKEWED CHANNEL

SCHEMATIC OF FENDER SYSTEM SHOWING TREATMENT OF SINGLE FIXED BRIDGE WITH SKEWED CHANNEL

CROSS REFERENCES:
For Stations and Offsets of referenced Control Points A, B, C and D.
Dimension "L" and Clear Channel Width see Fender System Table of Variables in Structures Plans.

* See Structures Plans, Plan and Elevation and Foundation Layout Sheets for magnitude and orientation of Channel Skew Angle.

REVISIONS

DATE
07/01/11

DESCRIPTION
bridges only; Changed title.

LAYOUT GEOMETRY

POLYMERIC PILES

FENDER SYSTEM - SINGLE FIXED BRIDGE WITH NONSKEWED CHANNEL
(SIMILAR TO PARALLEL DUAL FIXED BRIDGES SHOWN, NONPARALLEL DUAL FIXED BRIDGES SIMILAR)

FENDER SYSTEM - SINGLE FIXED BRIDGE WITH SKEWED CHANNEL
(SIMILAR TO PARALLEL DUAL FIXED BRIDGES SHOWN, NONPARALLEL DUAL FIXED BRIDGES SIMILAR)
**STRUCTURAL COMPOSITE LUMBER BILL OF MATERIALS**

<table>
<thead>
<tr>
<th>MARK</th>
<th>SIZE (NOMINAL)</th>
<th>DIMENSIONS</th>
<th>BOARD FT. PER EACH</th>
<th>NO. REQD.</th>
<th>QUANTITY</th>
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<tbody>
<tr>
<td>A1</td>
<td>10&quot; X 10&quot; COMPOSITE LUMBER</td>
<td>32'-0&quot; (STRAIGHT)</td>
<td>266.6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A2</td>
<td>10&quot; X 10&quot; COMPOSITE LUMBER</td>
<td>32'-0&quot;</td>
<td>266.6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A3</td>
<td>10&quot; X 10&quot; COMPOSITE LUMBER</td>
<td>16'-0&quot;</td>
<td>133.3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A4</td>
<td>10&quot; X 10&quot; COMPOSITE LUMBER</td>
<td>16'-0&quot;</td>
<td>133.3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A5</td>
<td>10&quot; X 10&quot; COMPOSITE LUMBER</td>
<td>16'-0&quot;</td>
<td>133.3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A6</td>
<td>10&quot; X 10&quot; COMPOSITE LUMBER</td>
<td>16'-0&quot;</td>
<td>133.3</td>
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</tbody>
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See Estimated Structural Composite and Plastic Lumber Bill of Materials Table in Structures Plans.

**PLASTIC LUMBER BILL OF MATERIALS**

<table>
<thead>
<tr>
<th>MARK</th>
<th>SIZE (NOMINAL)</th>
<th>DIMENSIONS</th>
<th>BOARD FT. PER EACH</th>
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<th>QUANTITY</th>
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<tr>
<td>B</td>
<td>8&quot; X 8&quot; PLASTIC LUMBER</td>
<td>8&quot; (STRAIGHT)</td>
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<tr>
<td>C</td>
<td>2&quot; X 6&quot; PLASTIC LUMBER</td>
<td>16'-0&quot; (STRAIGHT)</td>
<td>16.0</td>
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<td></td>
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<td>D</td>
<td>4&quot; X 6&quot; PLASTIC LUMBER</td>
<td>4'-4&quot; (STRAIGHT) (Trim &amp; Miter Ends as required)</td>
<td>8.7</td>
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<td></td>
</tr>
<tr>
<td>E</td>
<td>2&quot; X 12&quot; PLASTIC LUMBER</td>
<td>2'-6&quot; (STRAIGHT) (Miter as required)</td>
<td>5.0</td>
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<td>F2</td>
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<td>15'-11&quot;</td>
<td>159.6</td>
<td></td>
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<tr>
<td>F3</td>
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<td>15'-11&quot;</td>
<td>79.6</td>
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<td>F4</td>
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<td>F5</td>
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<td>8&quot; X 8&quot; PLASTIC LUMBER</td>
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<td>12.0</td>
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<tr>
<td>G2</td>
<td>8&quot; X 8&quot; PLASTIC LUMBER</td>
<td>2'-0&quot; (STRAIGHT)</td>
<td>10.7</td>
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<tr>
<td>H1</td>
<td>2&quot; X 6&quot; PLASTIC LUMBER</td>
<td>PILE CUTOFF ELEV. MINUS NLW OR MLB ELEV. PLUS 5'-6&quot; (STRAIGHT)</td>
<td>1.0 PER LF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>N2</td>
<td>2&quot; X 8&quot; PLASTIC LUMBER</td>
<td>1'-0&quot; (STRAIGHT)</td>
<td>1.0</td>
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<td></td>
</tr>
</tbody>
</table>

* All Plastic Lumber and Composite Lumber Dimensions and Quantities shown are based on Nominal Lumber Dimensions and may vary depending on Actual Lumber Dimension.

** Provide Fiberglass Open Grating in lieu of 2" X 12" Plastic Lumber when called for in the Plans. Mounting hardware shall be Stainless Steel, install per Manufacturer's recommendations. See Structures Plans for Notes and Details.
GENERAL NOTES:

U.S. COAST GUARD NOTIFICATION: Notify the local office of the U.S. Coast Guard at least 30 days prior to beginning of construction of the Fender System.

14" SQUARE PRESTRESSED CONCRETE PILES: Provide 14" Square Prestressed Concrete Piles of sufficient length to achieve a minimum embedment of 20' into soil having a blow count greater than or equal to 6 (N = 6). Pile splices and build-ups are not permitted. Use only 14" Square Prestressed Concrete Piles with 8" - 1/2" diameter Low Relaxation Strands fabricated in accordance with Index No. 20614.

PLASTIC LUMBER AND STRUCTURAL COMPOSITE LUMBER WALES: Provide only Plastic Lumber and Structural Composite Lumber Waless in accordance with Specification Section 9.3. Waless shall be continuous and spliced only at locations shown on the plans.

PLASTIC LUMBER DECKING FOR CATWALKS: Provide Plastic Lumber decking for catwalks when called for in the Plans in accordance with Specification Section 9.3.

Install Plastic Lumber Decking according to manufacturer's recommendations using stainless steel #10 x 3" (minimum) deck screws.

FIBERGLASS OPEN GRATING FOR CATWALKS: Provide Fiberglass Open Grating for catwalks when called for in the Plans. Fiberglass Open Grating shall be a heavy duty design suitable for exterior installations. Maximum gap opening on the walkway surface shall be 1/2". Design live loads and deflections shall be a 50 psf uniformly distributed load with a maximum deflection of 1/2" or 1/120 at the center of a simple span and a concentrated load of 250 pounds with a maximum deflection of 1/2" at the center of a simple span. Color of Fiberglass Open Grating shall be gray or black.

Install Fiberglass Open Grating according to manufacturer's recommendations using stainless steel hardware, screws, bolts, nuts and washers. Attach Fiberglass Open Grating to Wales and Deck Supports at a 2'-0" maximum spacing so as to resist pedestrian live loads and uplift forces from wind, buoyancy and wave action.

CLEARANCE GAUGE AND LIGHT: Clearance Gauge to be furnished by the FDOT and erected by the Contractor. Clearance Gauge width and numeral height is dependent on visibility distance. The required visibility distance shall be determined by the United States Coast Guard District Commander. Provide and install Clearance Gauge Light in accordance with Specification Section 510 and Index No. 21220.

NAVIGATION LIGHTS: Provide and install Navigation Lights in accordance with Specification Section 510. Index No. 21220 and/or project specific details. Provide and maintain Temporary Navigation Lights during construction until permanent Navigation Lights are operational.

BOLTS, THREADED BARS, NUTS, SCREWS AND WASHERS: Furnish stainless steel Bolts in accordance with ASTM F593 Type 316. Furnish stainless steel Nuts in accordance with ASTM F594 Type 316. Furnish stainless steel Screws in accordance with ASTM A249. Furnish stainless steel Threaded Bars in accordance with ASTM A193 Grade B8M. Furnish stainless steel Splice Plates in accordance with ASTM A240 Type 316.

WIRE ROPE: Provide wire rope meeting one of the following requirements:

1. 1/2" diameter 6x19, 6x25 or 6x37 class IWRC Type 316 stainless steel wire rope with a minimum breaking strength of 18,000 lbs.

2. 1/2" diameter 6x19 galvanized wire rope with ultraviolet ray resistant polypropylene impregnation having an outside diameter of 1/4" with a minimum breaking strength of 22,000 lbs. Protect all ends with heat shrinkable end caps compatible with the rope's polypropylene that provide an effective water-tight seal.

PLASTIC LUMBER DECKING FOR CATWALKS: Provide Plastic Lumber decking for catwalks when called for in the Plans in accordance with Specification Section 9.3.

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NAVIGATION LIGHTS: Provide and install Navigation Lights in accordance with Specification Section 510. Index No. 21220 and/or project specific details. Provide and maintain Temporary Navigation Lights during construction until permanent Navigation Lights are operational.

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WIRE ROPE: Provide wire rope meeting one of the following requirements:

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2. 1/2" diameter 6x19 galvanized wire rope with ultraviolet ray resistant polypropylene impregnation having an outside diameter of 1/4" with a minimum breaking strength of 22,000 lbs. Protect all ends with heat shrinkable end caps compatible with the rope's polypropylene that provide an effective water-tight seal.

GENERAL NOTES:
**SCHEMATIC OF FENDER SYSTEM SHOWING TREATMENT OF SINGLE FIXED BRIDGE WITH NONSKEWED CHANNEL**

- Dimension "L" (Multiples of 16'-0")
- Angle Skew
- Channel
- Left Fender
- Right Fender
- Control Point A
- Control Point B
- Control Point C
- Control Point D
- Coping Line
- Navigation Light

**SCHEMATIC OF FENDER SYSTEM SHOWING TREATMENT OF SINGLE FIXED BRIDGE WITH SKEWED CHANNEL**

- Dimension "L" (Multiples of 16'-0")
- Angle Skew
- Channel Skew
- Left Fender
- Right Fender
- Control Point A
- Control Point B
- Control Point C
- Control Point D
- Coping Line
- Navigation Light

**SCHEMATIC OF FENDER SYSTEM SHOWING TREATMENT OF DUAL FIXED BRIDGES WITH NONSKEWED CHANNEL**

- Parallel Dual Fixed Bridges Shown, Nonparallel Dual Fixed Bridges Similar
- Dimension "L" and Clear Channel Width
- See Fender System Table of Variables in Structures Plans.

**SCHEMATIC OF FENDER SYSTEM SHOWING TREATMENT OF DUAL FIXED BRIDGES WITH SKEWED CHANNEL**

- Parallel Dual Fixed Bridges Shown, Nonparallel Dual Fixed Bridges Similar
- Dimension "L" and Clear Channel Width
- See Fender System Table of Variables in Structures Plans.

**CROSS REFERENCES:**
- See Structures Plans, Plan and Elevation and Foundation Layout Sheets for magnitude and orientation of Channel Angle.

**REVISIONS**
- 07/01/11
- Polymeric piling fenders.
- New Sheet; Added Schematic details to separate this Index from polymeric piling fenders.

**LAYOUT GEOMETRY**

**2010 Interim Design Standard**

**FENDER SYSTEM - PRESTRESSED CONCRETE PILES**

**SYMBOLS:**
- Survey or Construction (Stationing Line)
- Left Fender
- Right Fender
- Control Point A
- Control Point B
- Control Point C
- Control Point D
- Coping Line
- Navigation Light
- Lighted Clearance Gauge & Navigation Light

**NOTES:**
- For Stations and Offsets of referenced Control Points A, B, C and D.
- Dimension "L" and Clear Channel Width see Fender System Table of Variables in Structures Plans.
- For Navigation Light Details see Design Standards Index 21220.
**PARTIAL VIEW F-F**

**SHOWING FENDER ENDS: DECKING AND HANDRAIL NOT SHOWN FOR CLARITY**

**VIEW F-F**

**SHOWING FENDER END WITH CLEARANCE GAUGE**

**SPLICE PLATE DETAIL**

**SECTION E-E**

**TYPICAL STRAIGHT SECTION**

**(8° TURN SHOWN; 4° TURN SIMILAR)**

**REVISIONS**

**DATE** | **REVISION** | **DESCRIPTION**
--- | --- | ---
07/01/11 | GJM | Changed Title and Cross References; Changed splice plate dimensions.

**2010 Interim Design Standard**

**FENDER SYSTEM - PRESTRESSED CONCRETE PILES**

**FOR CLARITY** AND **HANDRAIL NOT SHOWN**

**FOR VIEW F-F**

**DETAILED**

**DETAIL "A"**

**SECTION E-E**

**TYPICAL STRAIGHT SECTION**

**FOR CLARITY**

**AND HANDRAIL NOT SHOWN**

**FOR VIEW F-F**

**DETAILED**

**DETAIL "A"**

**SECTION E-E**

**TYPICAL STRAIGHT SECTION**

**FOR CLARITY**

**AND HANDRAIL NOT SHOWN**

**FOR VIEW F-F**

**DETAILED**

**DETAIL "A"**

**SECTION E-E**

**TYPICAL STRAIGHT SECTION**

**FOR CLARITY**

**AND HANDRAIL NOT SHOWN**

**FOR VIEW F-F**

**DETAILED**

**DETAIL "A"**

**SECTION E-E**

**TYPICAL STRAIGHT SECTION**

**FOR CLARITY**

**AND HANDRAIL NOT SHOWN**

**FOR VIEW F-F**

**DETAILED**

**DETAIL "A"**

**SECTION E-E**

**TYPICAL STRAIGHT SECTION**

**FOR CLARITY**

**AND HANDRAIL NOT SHOWN**

**FOR VIEW F-F**

**DETAILED**

**DETAIL "A"**

**SECTION E-E**

**TYPICAL STRAIGHT SECTION**

**FOR CLARITY**

**AND HANDRAIL NOT SHOWN**

**FOR VIEW F-F**

**DETAILED**

**DETAIL "A"**
### STRUCTURAL COMPOSITE LUMBER BILL OF MATERIALS

<table>
<thead>
<tr>
<th>MARK</th>
<th>SIZE (NOMINAL)</th>
<th>DIMENSIONS</th>
<th>BOARD FT. PER EACH</th>
<th>NO. REQD.</th>
<th>QUANTITY</th>
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<tr>
<td>A1</td>
<td>10&quot; X 10&quot; COMPOSITE LUMBER</td>
<td>32'-0&quot; (STRAIGHT)</td>
<td>266.6</td>
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<td>A2</td>
<td>10&quot; X 10&quot; COMPOSITE LUMBER</td>
<td>32'-0&quot; (STRAIGHT)</td>
<td>266.6</td>
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<td></td>
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<tr>
<td>A3</td>
<td>10&quot; X 10&quot; COMPOSITE LUMBER</td>
<td>32'-0&quot; (STRAIGHT)</td>
<td>133.3</td>
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<tr>
<td>A4</td>
<td>10&quot; X 10&quot; COMPOSITE LUMBER</td>
<td>32'-0&quot; (STRAIGHT)</td>
<td>133.3</td>
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<td></td>
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<td>A5</td>
<td>10&quot; X 10&quot; COMPOSITE LUMBER</td>
<td>32'-0&quot; (STRAIGHT)</td>
<td>133.3</td>
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<td></td>
</tr>
<tr>
<td>A6</td>
<td>10&quot; X 10&quot; COMPOSITE LUMBER</td>
<td>32'-0&quot; (STRAIGHT)</td>
<td>133.3</td>
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### PLASTIC LUMBER BILL OF MATERIALS

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<th>MARK</th>
<th>SIZE (NOMINAL)</th>
<th>DIMENSIONS</th>
<th>BOARD FT. PER EACH</th>
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<td>B</td>
<td>8&quot; X 8&quot; PLASTIC LUMBER</td>
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<td>C</td>
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<td>D</td>
<td>2&quot; X 6&quot; PLASTIC LUMBER</td>
<td>16'-0&quot; (STRAIGHT)</td>
<td>16.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>2&quot; X 12&quot; PLASTIC LUMBER</td>
<td>4'-0&quot; (STRAIGHT)</td>
<td>8.7</td>
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<td>F1</td>
<td>6&quot; X 10&quot; PLASTIC LUMBER</td>
<td>32'-0&quot; (STRAIGHT)</td>
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<td>F2</td>
<td>6&quot; X 10&quot; PLASTIC LUMBER</td>
<td>32'-0&quot; (STRAIGHT)</td>
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<td>F3</td>
<td>6&quot; X 10&quot; PLASTIC LUMBER</td>
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<td>79.6</td>
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<td>F4</td>
<td>6&quot; X 10&quot; PLASTIC LUMBER</td>
<td>32'-0&quot; (STRAIGHT)</td>
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<tr>
<td>H1</td>
<td>4&quot; X 4&quot; PLASTIC LUMBER</td>
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<td>1.3 PER LF EACH</td>
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<tr>
<td>M2</td>
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<td>1'-0&quot; (STRAIGHT)</td>
<td>1.2</td>
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</tbody>
</table>

* All Plastic Lumber and Composite Lumber Dimensions and Quantities shown are based on Nominal Lumber Dimensions and may vary depending on Actual Lumber Dimension.

** Provide Fiberglass Open Grating in lieu of 2" X 12" Plastic Lumber when called for in the Plans. Mounting hardware shall be Stainless Steel, install per Manufacturer's recommendations. See Structures Plans for Notes and Details.

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2010 Interim Design Standard

FENDER SYSTEM - PRESTRESSED CONCRETE PILES