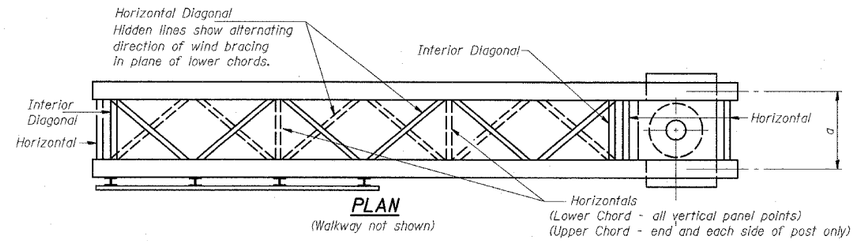
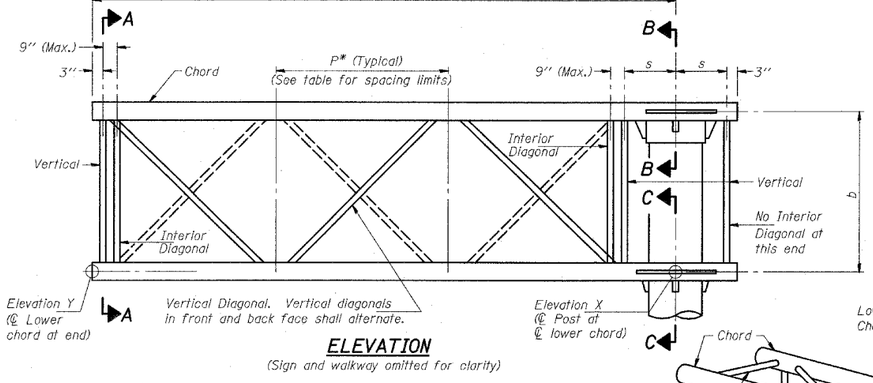
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 94 | • | COOK | 907 | 751 |
| STA. 1200+00.00 | | TO STA. 1365+00 | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |
| • (1516.1, 1717 & 1818) R-9 | | | | 62695 |

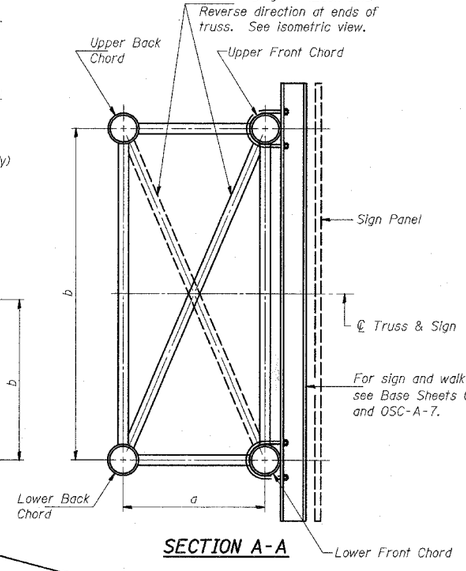



**PLAN**
(Walkway not shown)

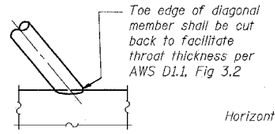



**ELEVATION**
(Sign and walkway omitted for clarity)

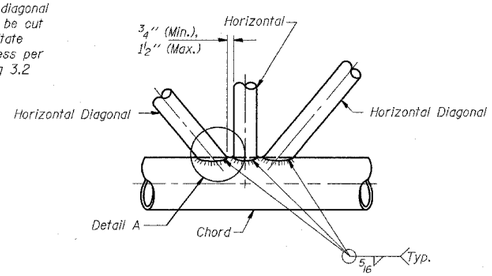
**TYPICAL TRUSS UNIT**
For Section B-B and Section C-C, see Base Sheet OSC-A-3.




**SECTION A-A**



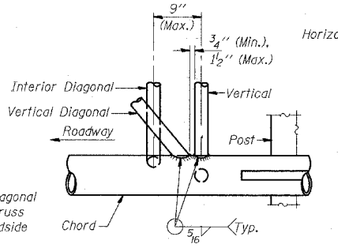

**DETAIL A**



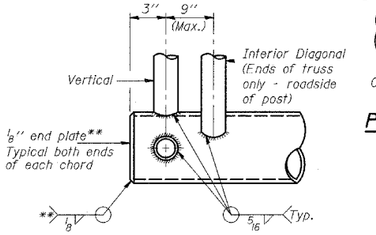

**TRUSS INTERIOR JOINT DETAIL**

| Structure Number | Station | Truss Type | Design Length (L) | Number of Panels Per Unit | Panel Length (P)* |
|---|---|---|---|---|---|
| IC0161057L357.8 | 117+30 | III-C-A | 37' | 7 | 5.00' |
| IC0161057R063.0 | 144+75 | III-C-A | 32' | 6 | 5.00' |
| IC0161094R062.6 | 1216+75 | III-C-A | 40' | 8 | 4.75' |
| IC0161094R062.4 | 1227+50 | III-C-A | 40' | 8 | 4.75' |

Note: There are twice as many horizontal diagonals as there are vertical diagonals.




**POST END JOINT DETAIL**




**CANTILEVER END JOINT DETAIL**

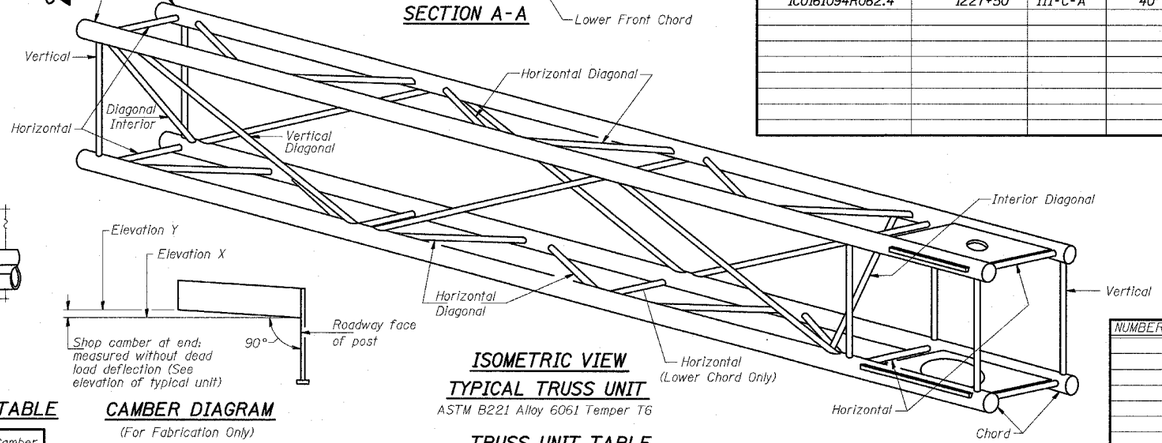
**Contractor may alternatively use standard aluminum drive-fit cap to close ends.

**SHOP CAMBER TABLE**

| Unit Length (L) | Shop Camber at End |
|---|---|
| 15' | 1 1/2" |
| 16'-17' | 1 3/4" |
| 18'-20' | 2" |
| 21'-22' | 2 1/4" |
| 23'-25' | 2 1/2" |
| 26'-27' | 2 3/4" |
| 28'-30' | 3" |
| 31'-32' | 3 1/4" |
| 33'-35' | 3 1/2" |
| 36'-37' | 4" |
| 38'-40' | 4 1/2" |




**CAMBER DIAGRAM**
(For Fabrication Only)




**ISOMETRIC VIEW**
**TYPICAL TRUSS UNIT**
ASTM B221 Alloy 6061 Temper T6

**TRUSS UNIT TABLE**

| Truss Type | Dimension "a" | Dimension "b" | Dimension "s" | Limits for Panel Spacing (P)* | Up. & Low. Chord O.D. | Up. & Low. Chord Wall | Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals O.D. | Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals Wall |
|---|---|---|---|---|---|---|---|---|
| I-C-A | 24" | 54" | 16" | 36" Min. to 48" Max. | 5" | 5/16" | 2 1/2" | 5/16" |
| II-C-A | 36" | 66" | 21" | 42" Min. to 54" Max. | 6 1/2" | 5/16" | 3 1/4" | 5/16" |
| III-C-A (35' Max.) | 36" | 84" | 21" | 48" Min. to 66" Max. | 7" | 3/8" | 3 1/2" | 3/8" |
| III-C-A (>35' to 40') | 36" | 84" | 21" | 48" Min. to 66" Max. | 8" | 3/8" | 3 1/2" | 3/8" |

$$*P = \frac{L - s - 3''}{\#\ \text{Panels}}$$

| NUMBER | REVISION | DATE |
|---|---|---|
| | | |

OSC-A-2 11/1/2002

TY·LIN INTERNATIONAL

| REVISIONS NAME | DATE |
|---|---|
| | |

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
CANTILEVER SIGN STRUCTURES
TRUSS DETAILS
ALUMINUM TRUSS & STEEL POST

SCALE: AS NOTED DRAWN BY: AMB
DATE: MARCH 25, 2005 CHECKED BY: TB

D:\0237\Vroad\cfb\sdf\bsh0023a.dgn 12:44:12 PM 3/30/2005