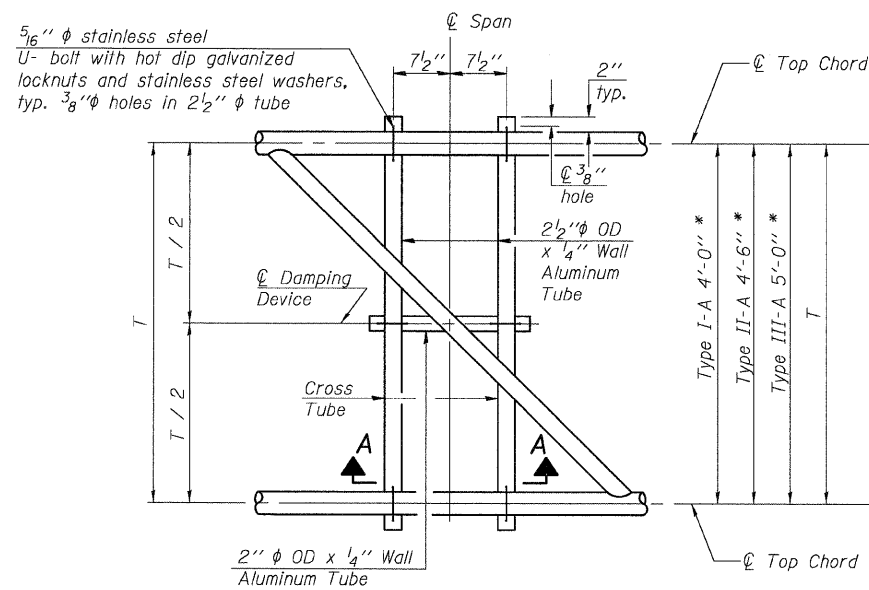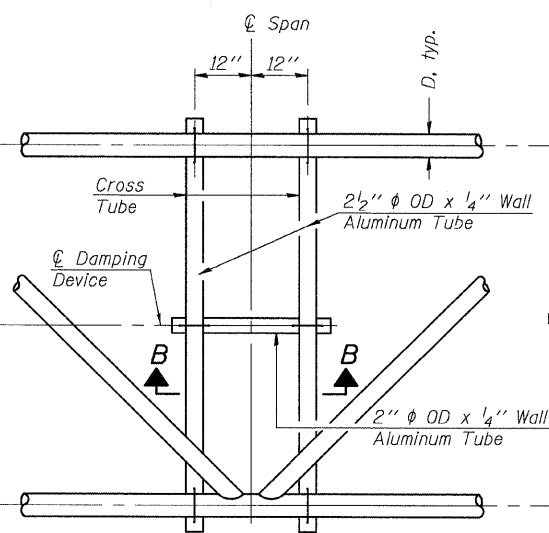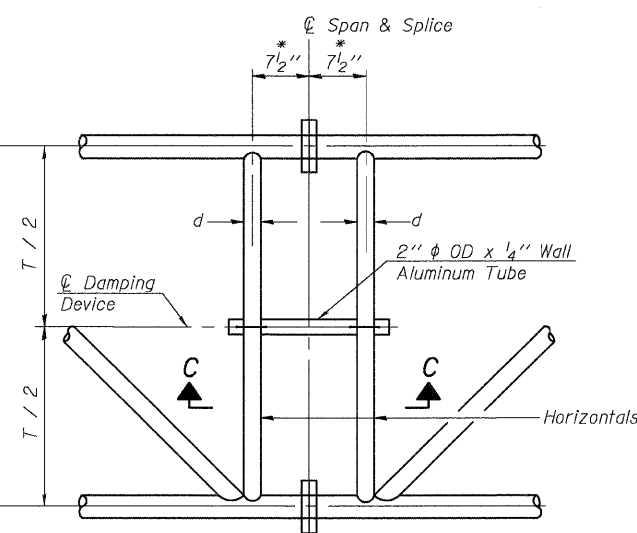* Center of horizontal to center of
  splice dimension may vary. Verify
  before drilling holes in mounting tube.

PLAN DETAIL "A"
ℂ Span between Panel Points

$\frac{5}{16}$" φ stainless steel
U- bolt with hot dip galvanized
locknuts and stainless steel washers,
typ. $\frac{3}{8}$"φ holes in $2\frac{1}{2}$" φ tube

ℂ Span
$7\frac{1}{2}$" $7\frac{1}{2}$"
2", typ.
ℂ Top Chord
ℂ $\frac{3}{8}$" hole
ℂ Damping Device
Cross Tube
$2\frac{1}{2}$"φ OD x $\frac{1}{4}$" Wall Aluminum Tube
2" φ OD x $\frac{1}{4}$" Wall Aluminum Tube
Type I-A 4'-0" *
Type II-A 4'-6" *
Type III-A 5'-0" *
T/2 T T/2

PLAN DETAIL "B"
ℂ Span at Panel Point

ℂ Span
12" 12"
D, typ.
ℂ Top Chord
Cross Tube
ℂ Damping Device
$2\frac{1}{2}$" φ OD x $\frac{1}{4}$" Wall Aluminum Tube
2" φ OD x $\frac{1}{4}$" Wall Aluminum Tube
T/2 T T/2

PLAN DETAIL "C"
ℂ Span at ℂ Chord Splice

ℂ Span & Splice
* $7\frac{1}{2}$" $7\frac{1}{2}$" *
See Plan Detail A, B, C, for truss damping device
d d
2" φ OD x $\frac{1}{4}$" Wall Aluminum Tube
ℂ Damping Device
Horizontals
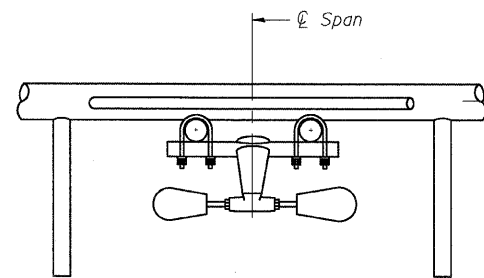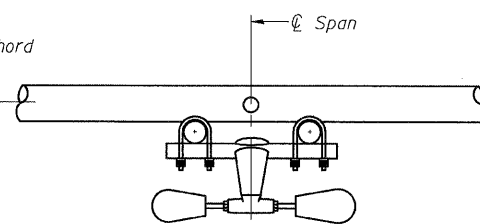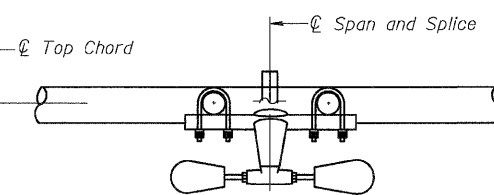T/2 T T/2

ELEVATION
Aluminum Overhead Sign Truss

NOTES

Damper: One damper per truss. (31 lbs. minimum Stockbridge-Type Aluminum - 29" minimum between ends of weights) Cost included in Overhead Sign Structure...

Materials: Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6. Cost included in Overhead Sign Structure...
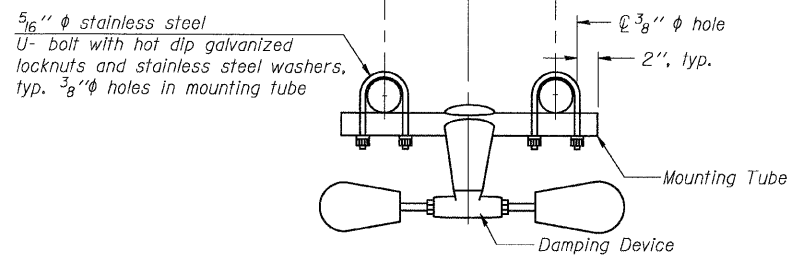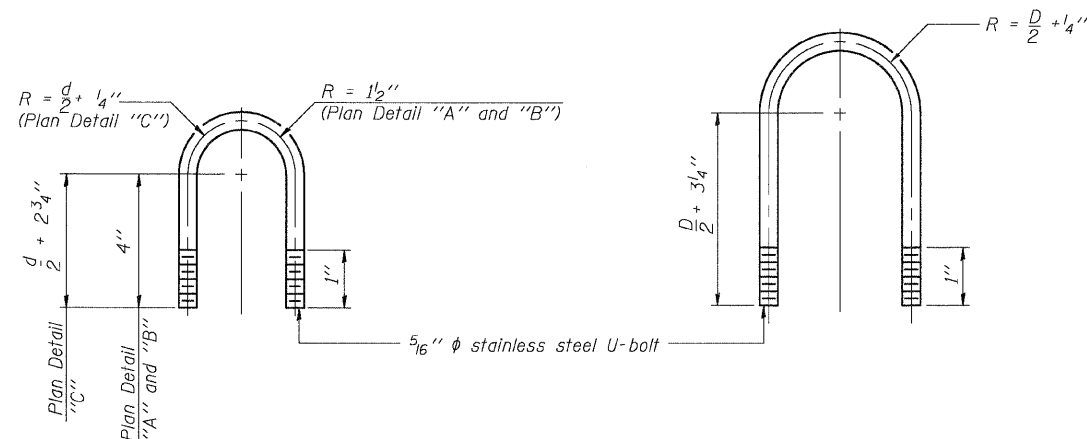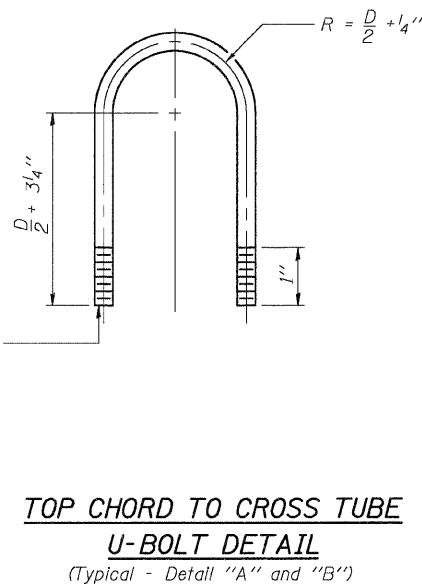
SECTION A-A
ℂ Span
ℂ Top Chord

SECTION B-B
ℂ Span
ℂ Top Chord

SECTION C-C
ℂ Span and Splice
ℂ Top Chord

TRUSS DAMPING DEVICE CONNECTION DETAIL
(Typical)

ℂ Span
ℂ cross tubes (Detail "A" and "B") or Horizontal (Detail "C")
ℂ $\frac{3}{8}$" φ hole
2", typ.
$\frac{5}{16}$" φ stainless steel U- bolt with hot dip galvanized locknuts and stainless steel washers, typ. $\frac{3}{8}$"φ holes in mounting tube
Mounting Tube
Damping Device

DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL
(Typical)

$R = \frac{d}{2} + \frac{1}{4}$" (Plan Detail "C")
$R = 1\frac{1}{2}$" (Plan Detail "A" and "B")
Plan Detail "C"
Plan Detail "A" and "B"
$\frac{d + 2\frac{3}{4}"}{2}$
4"
1"
$\frac{5}{16}$" φ stainless steel U-bolt

TOP CHORD TO CROSS TUBE U-BOLT DETAIL
(Typical - Detail "A" and "B")

$R = \frac{D}{2} + \frac{1}{4}$"
$\frac{D}{2} + 3\frac{1}{4}$"
1"

OVERHEAD SIGN STRUCTURE DAMPING DEVICE

F.A.I. ROUTE 70, SEC. 60-(5,6,7)RS, 60-(6,7)BR
MADISON COUNTY

SHEET NO. 13	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	60-(5,6,7)RS, 60-(6,7)BR	MADISON	185	157
19 SHEETS		CONTRACT NO. 76C56			
	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			