

INDEX OF SHEETS

- 1 COVER SHEET
- 2 SUMMARY OF QUANTITIES
- 3 QUANTITY SCHEDULES
- 4 LOCATION MAPS
- 5-17 SIGN TRUSS DETAILS
- 18-22 SIGN DETAILS
- 23-27 SOIL BORING LOGS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
SIGN TRUSS REPLACEMENT

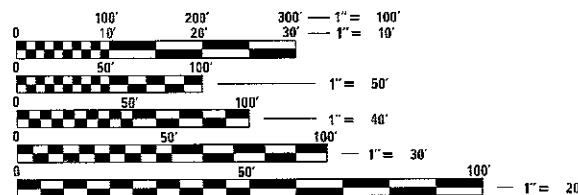
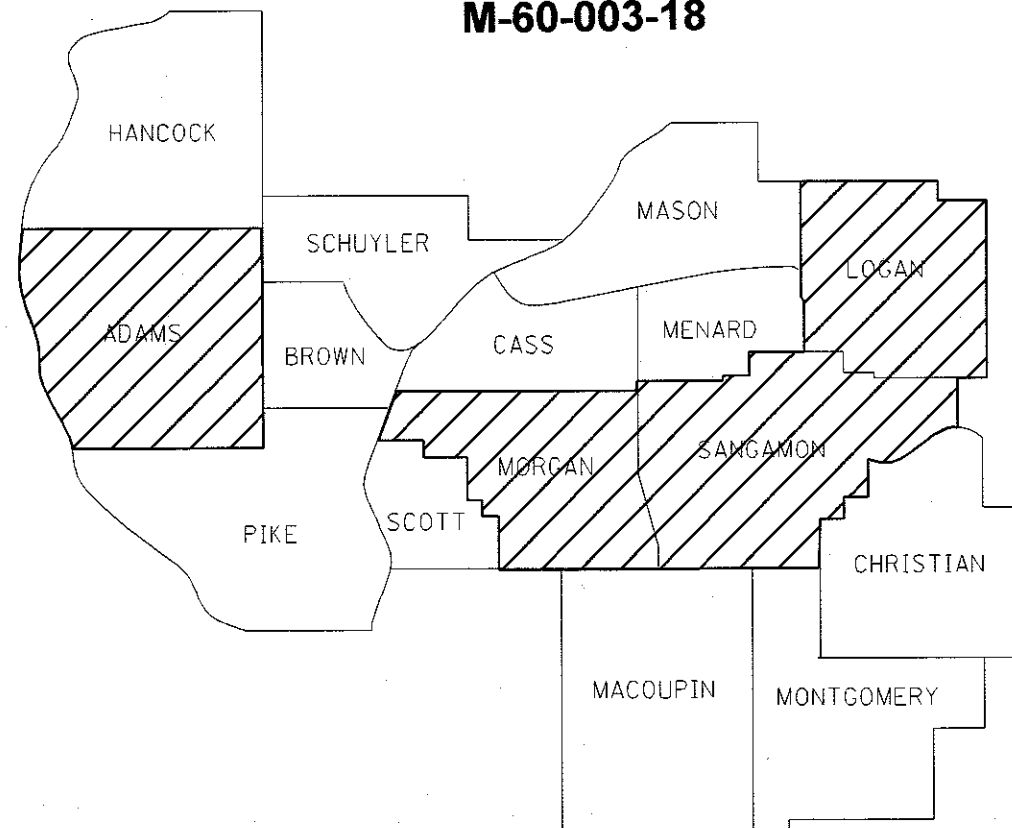
VARIOUS ROUTES
SECTION D-6 OVD SIN STR REPL 18-27

OVERHEAD SIGN TRUSS REPLACEMENT
VARIOUS COUNTIES

HIGHWAY STANDARDS

- 630001-11
- 631011-10
- 701101-05
- 701106-02
- 701400-09
- 701406-11
- 701411-09
- 701446-08
- 701901-06
- 720021-02
- 782006

M-60-003-18



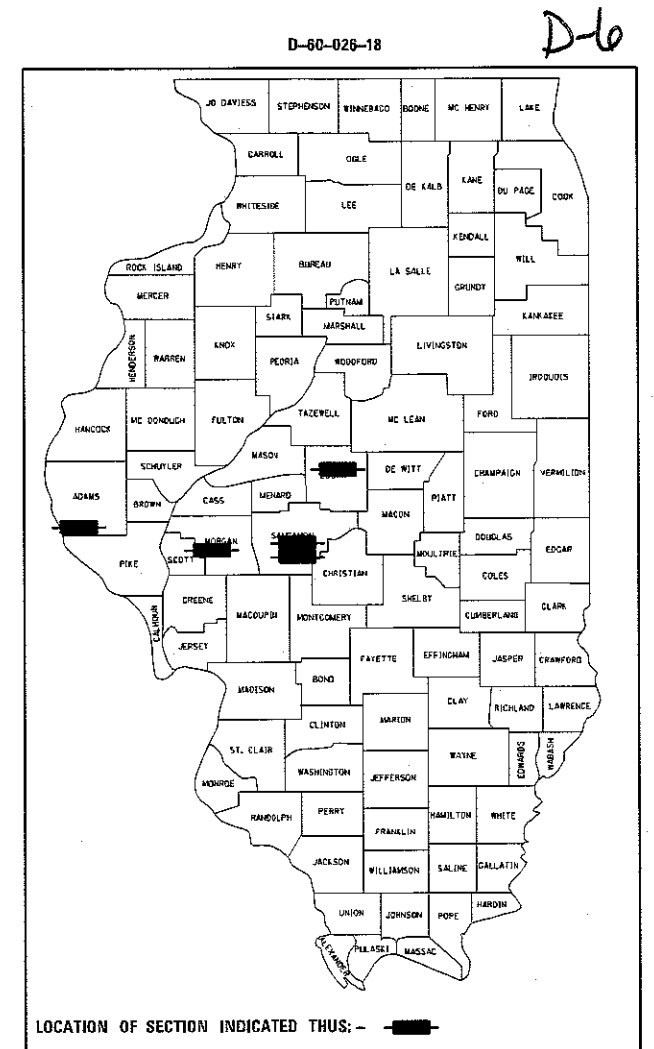
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
 1-800-892-0123
 OR 811

BRIDGE MAINTENANCE ENGINEER – BRANDON DUDLEY (217) 785-9290
BRIDGE INSPECTION ENGINEER –

GROSS LENGTH = NA
 NET LENGTH = NA

CONTRACT NO. 46465



STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED July 5 2017
Ag Sills REGION FOUR ENGINEER

August 18 2017
Matthew M. Addis ENGINEER OF DESIGN AND ENVIRONMENT

August 18 2017
Travis DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

LOCATION #1: SN 6S001172L001.4			
COUNTY: ADAMS	ROUTE: I-172	MP: 1.4	DIRECTION: SB
LOCATION DESCRIPTION: APPROX. 1.3 MI SOUTH OF IL 57			
BM WS-70: CHISELED [] ON MEDIAN FOUNDATION OF EXISTING SIGN TRUSS AT THIS LOCATION ELEV: 474.91			
DESCRIPTION OF WORK	UNIT	QUANTITY	
REMOVE SIGN PANEL - TYPE 3	SQ FT	287	
OVERHEAD SIGN STRUCTURE - SPAN, TYPE I-A (4'-0" X 4'-6")	FOOT	79	
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	17.0	
REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	1	
REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	2	
DISCONNECT SIGN LIGHTING AND REMOVE WIRING TO NEAREST SPLICE	EACH	1	
SIGN PANEL - TYPE 3	SQ FT	298	
MOBILIZATION	L SUM	0.17	
TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	0.17	
NIGHTTIME WORK ZONE LIGHTING	L SUM	0.17	
CONSTRUCTION LAYOUT	L SUM	0.20	

LOCATION #3: SN 6S0691072L060RP			
COUNTY: MORGAN	ROUTE: I-72	MP: RAMP	DIRECTION: SB
LOCATION DESCRIPTION: AT THE SB US 67 / I-72 RAMP SPLIT, 0.35 MI N OF I-72			
BM 502: CHISELED [] ON MEDIAN FOUNDATION OF EXISTING SIGN TRUSS AT THIS LOCATION ELEV: 619.02			
DESCRIPTION OF WORK	UNIT	QUANTITY	
REMOVE SIGN PANEL - TYPE 3	SQ FT	358	
OVERHEAD SIGN STRUCTURE - SPAN, TYPE I-A (4'-0" X 4'-6")	FOOT	96	
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	12.7	
REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	1	
REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	2	
DISCONNECT SIGN LIGHTING AND REMOVE WIRING TO NEAREST SPLICE	EACH	1	
SIGN PANEL - TYPE 3	SQ FT	363	
MOBILIZATION	L SUM	0.17	
TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	0.17	
NIGHTTIME WORK ZONE LIGHTING	L SUM	0.17	
CONSTRUCTION LAYOUT	L SUM	0.20	

LOCATION #5: SN 6C0841055R083.2			
COUNTY: SANGAMON	ROUTE: I-55	MP: 83.2	DIRECTION: NB
LOCATION DESCRIPTION: AT BEGINNING OF NB GLENARM EXIT RAMP			
BM RTBI: CHISELED [] ON FOUNDATION OF EXISTING SIGN TRUSS AT THIS LOCATION ELEV: 605.69			
DESCRIPTION OF WORK	UNIT	QUANTITY	
REMOVE SIGN PANEL - TYPE 3	SQ FT	75	
OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE III-C-A (36" X 7'-0")	FOOT	35	
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	8.7	
REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1	
REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	1	
DISCONNECT SIGN LIGHTING AND REMOVE WIRING TO NEAREST SPLICE	EACH	1	
SIGN PANEL - TYPE 3	SQ FT	81	
MOBILIZATION	L SUM	0.17	
TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	0.17	
NIGHTTIME WORK ZONE LIGHTING	L SUM	0.17	
CONSTRUCTION LAYOUT	L SUM	0.20	

LOCATION #2: SN 6S001172L000.3 (EXIST.) - SN 6S001172R000.3 (PROP.)			
COUNTY: ADAMS	ROUTE: I-172	MP: 0.3	DIRECTION: SB
LOCATION DESCRIPTION: AT ADAMS / PIKE CO. LINE, 0.1 M SE OF BRIDGE SN 001-0069			
BM WS-66: CHISELED [] ON BASE OF SN 001-0069 PIER, APPROX. STA 0+00 ELEV: 464.92			
DESCRIPTION OF WORK	UNIT	QUANTITY	
REMOVE SIGN PANEL - TYPE 3	SQ FT	326	
OVERHEAD SIGN STRUCTURE - SPAN, TYPE I-A (4'-0" X 4'-6")	FOOT	99	
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	12.6	
REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	1	
REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	2	
DISCONNECT SIGN LIGHTING AND REMOVE WIRING TO NEAREST SPLICE	EACH	1	
SIGN PANEL - TYPE 3	SQ FT	336	
MOBILIZATION	L SUM	0.17	
TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	0.17	
NIGHTTIME WORK ZONE LIGHTING	L SUM	0.17	
CONSTRUCTION LAYOUT	L SUM	0.20	

LOCATION #4: SN 6S0841055R091.7			
COUNTY: SANGAMON	ROUTE: I-55	MP: 91.7	DIRECTION: NB
LOCATION DESCRIPTION: NEAR I-55 / 6TH ST SPLIT, 1.4 MI N TORONTO RD IN SPRINGFIELD			
BM 1: CHISELED [] ON N LEG OF MEDIAN FOUNDATION OF EXISTING SIGN TRUSS AT THIS LOC. ELEV: 595.48			
DESCRIPTION OF WORK	UNIT	QUANTITY	
REMOVE SIGN PANEL - TYPE 3	SQ FT	564	
OVERHEAD SIGN STRUCTURE - SPAN, TYPE II-A (4'-6" X 5'-3")	FOOT	124	
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	15.4	
REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	1	
REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	2	
DISCONNECT SIGN LIGHTING AND REMOVE WIRING TO NEAREST SPLICE	EACH	1	
SIGN PANEL - TYPE 3	SQ FT	570	
MOBILIZATION	L SUM	0.17	
TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	0.17	
NIGHTTIME WORK ZONE LIGHTING	L SUM	0.17	
CONSTRUCTION LAYOUT	L SUM	0.20	

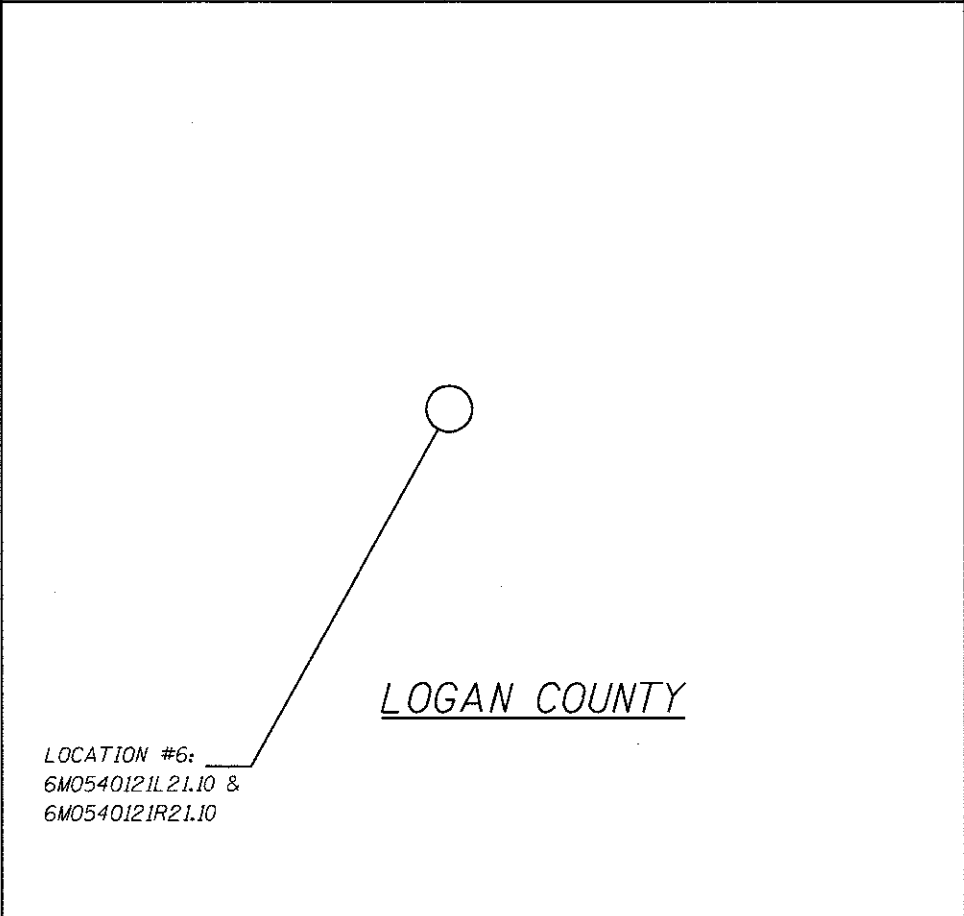
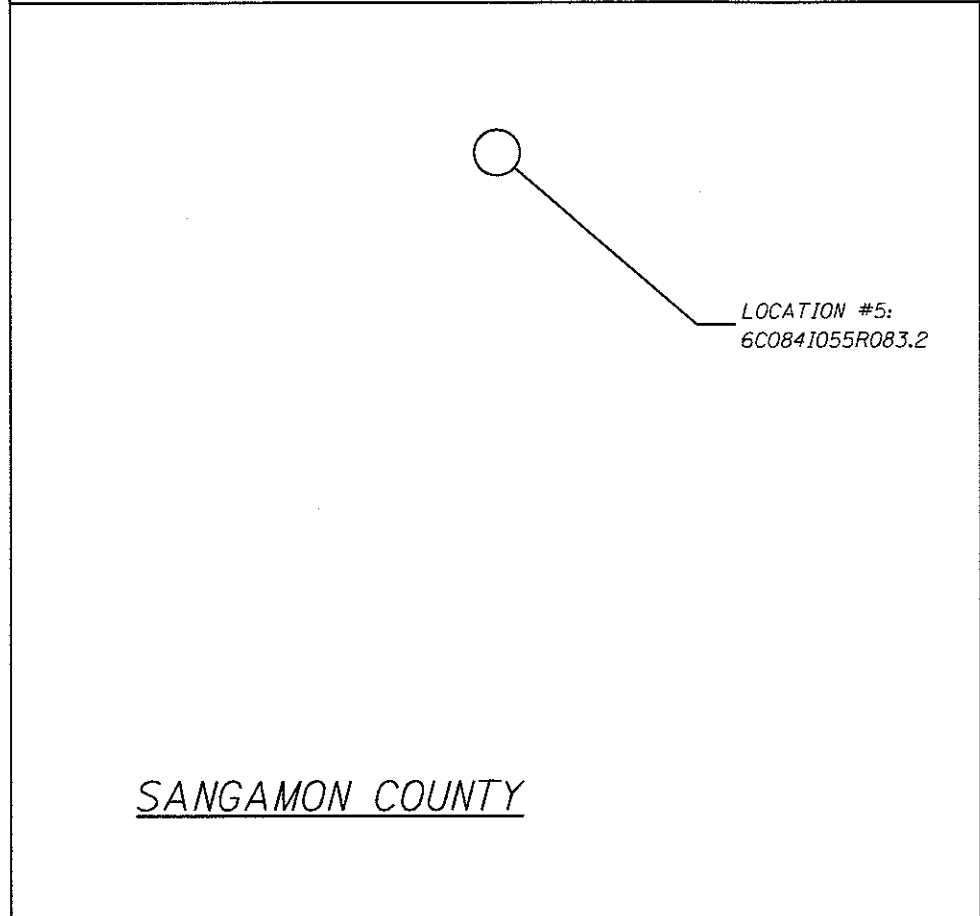
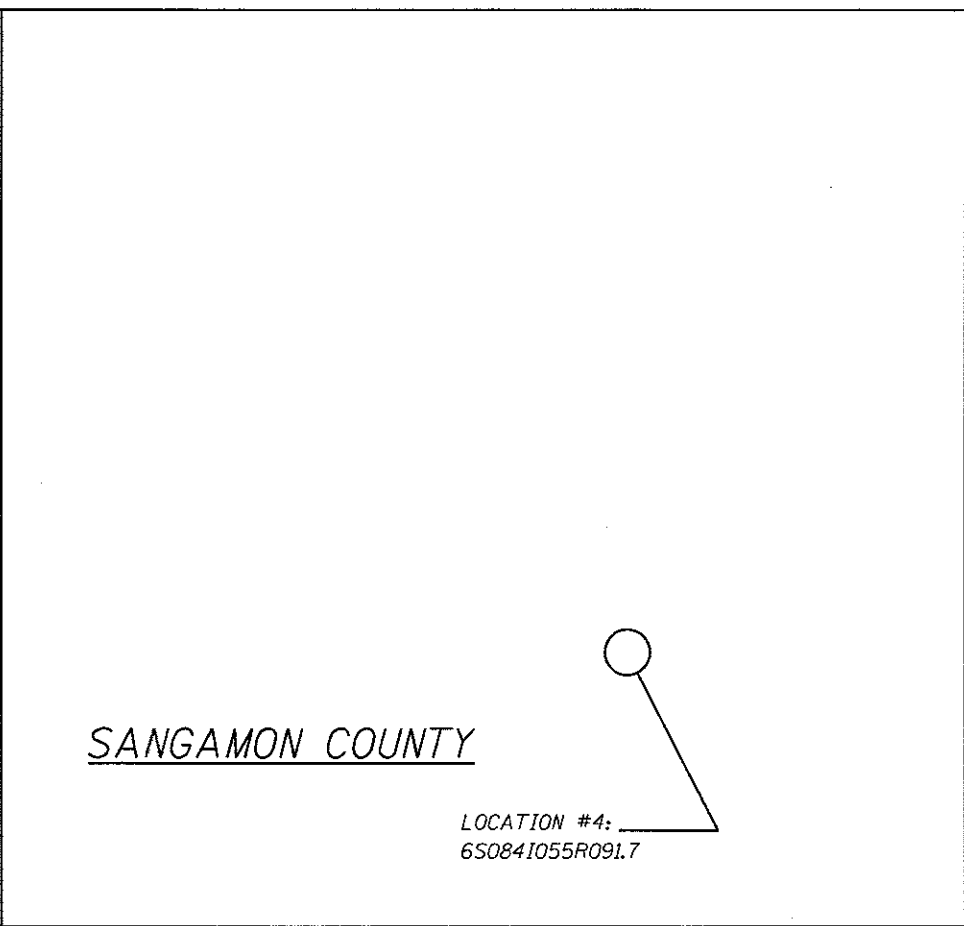
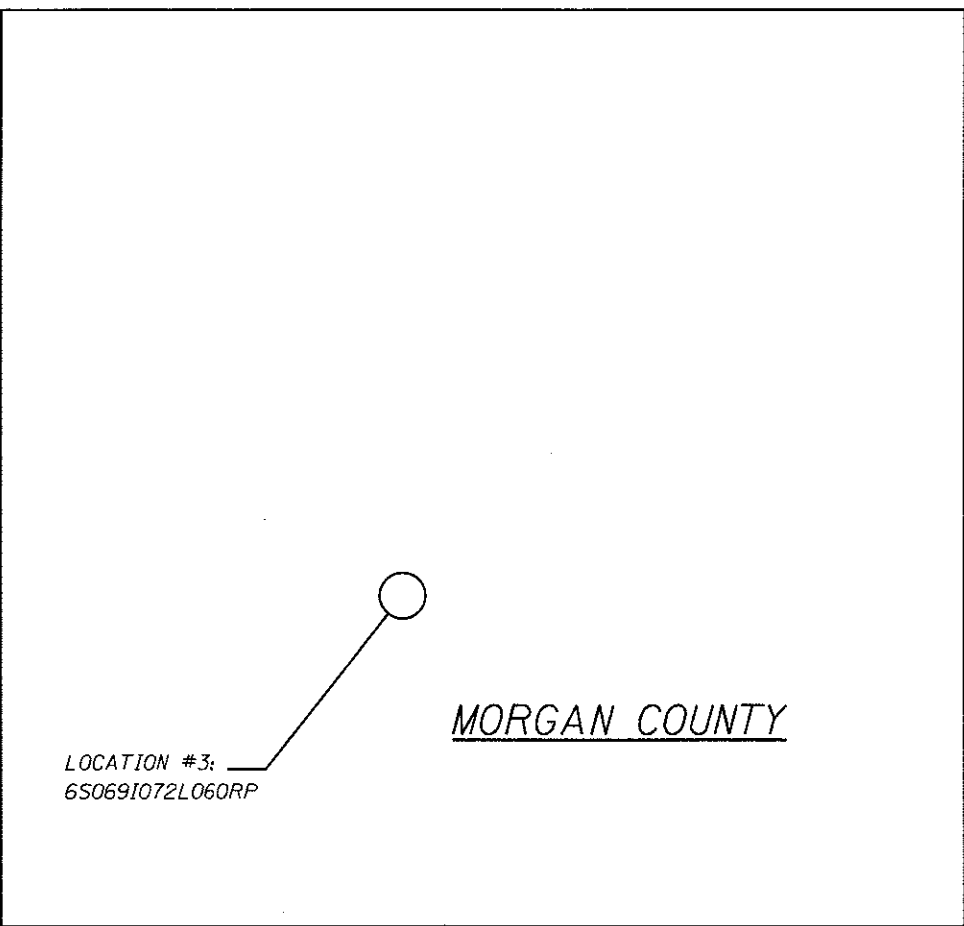
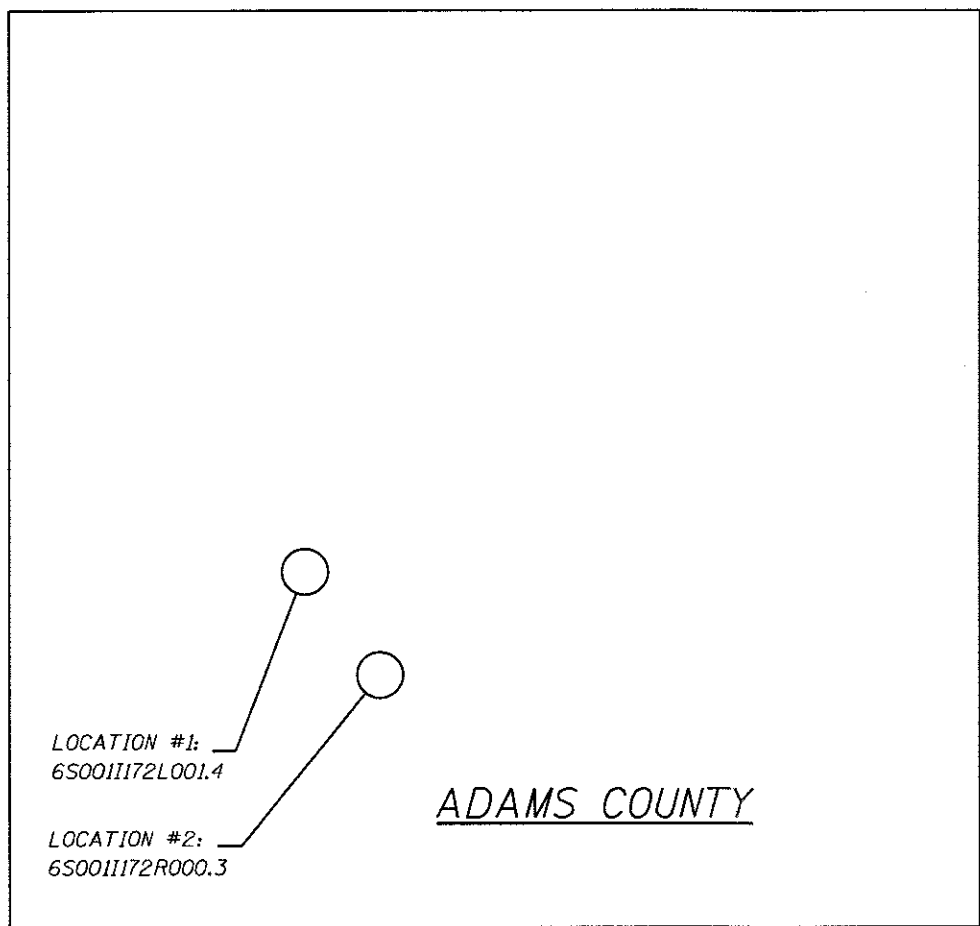
LOCATION #6: SN 6M0540121L21.10 & 6M0540121R21.10			
COUNTY: LOGAN	ROUTE: OLD IL 121	MP: 21.1	DIRECTION: NB & SB
LOCATION DESCRIPTION: 0.1 MI N IL 10 IN LINCOLN			
DESCRIPTION OF WORK	UNIT	QUANTITY	
REMOVE SIGN PANEL - TYPE 1	SQ FT	10	
REMOVE SIGN PANEL - TYPE 3	SQ FT	120	
REMOVE OVERHEAD SIGN STRUCTURE - MONOTUBE	EACH	2	
REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	2	
MOBILIZATION	L SUM	0.15	
TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	0.15	
NIGHTTIME WORK ZONE LIGHTING	L SUM	0.15	

NOTE: THE PROPOSED STRUCTURE NUMBER FOR SN 6S001172L000.3 SHALL BE 6S001172R000.3. ROADWAY STATIONING INCREASES BOTH DIRECTIONS FROM A STATION EQUATION JUST NORTH OF THIS STRUCTURE.

NOTE: FOUNDATIONS AT TRUSS 6S0841055R091.7 CONSIST OF TWO COLUMNS FOR EACH END OF THE TRUSS. FOR PAYMENT PURPOSES AT THIS LOCATION, ONE FOUNDATION REMOVAL SHALL CONSIST OF REMOVING BOTH COLUMNS OF A FOUNDATION ASSOCIATED WITH ONE END OF THE TRUSS. (I.E. ONLY ONE FOUNDATION REMOVAL SHALL BE PAID FOR EACH END OF THE TRUSS.)

NOTE: TRUSSES 6M0540121L21.10 AND 6M0540121R21.10 TO BE REPLACED WITH POST MOUNTED SIGNS BY OTHERS. TRUSSES SHALL NOT BE REMOVED UNTIL NEW SIGNS ARE INSTALLED. MEDIAN FOUNDATION SHALL BE LEFT IN PLACE AND ALL CONNECTIONS CUT OFF FLUSH WITH EXISTING CONCRETE SURFACE.

GUARDRAIL SCHEDULE									
TRUSS	DIRECTION	SIDE	LOCATION	SPBGR, TY A 6' POSTS (FOOT)	R&R TRAF. BAR. TERM. TY 2 (EACH)	TRAF. BAR. TERM. TY 1 (SPC.) TAN. (EACH)	TERM. MARKER DIRECT APPLIED (EACH)	GUARDRAIL REMOVAL (FOOT)	GUARDRAIL REF. TY A (EACH)
6S001172L001.4	SBL	MEDIAN	S END OF EXISTING	25	1	-	-	-	1
6S001172R000.3	SBL	MEDIAN	S END OF EXISTING	25	1	-	-	-	1
6S0841055R091.7	SBL	MEDIAN	N END OF EXISTING	25	-	1	1	50	1
6C0841055R083.2	NBL	OUTSIDE	N END OF EXISTING	25	1	-	-	-	1
TOTALS:				100	3	1	1	50	4

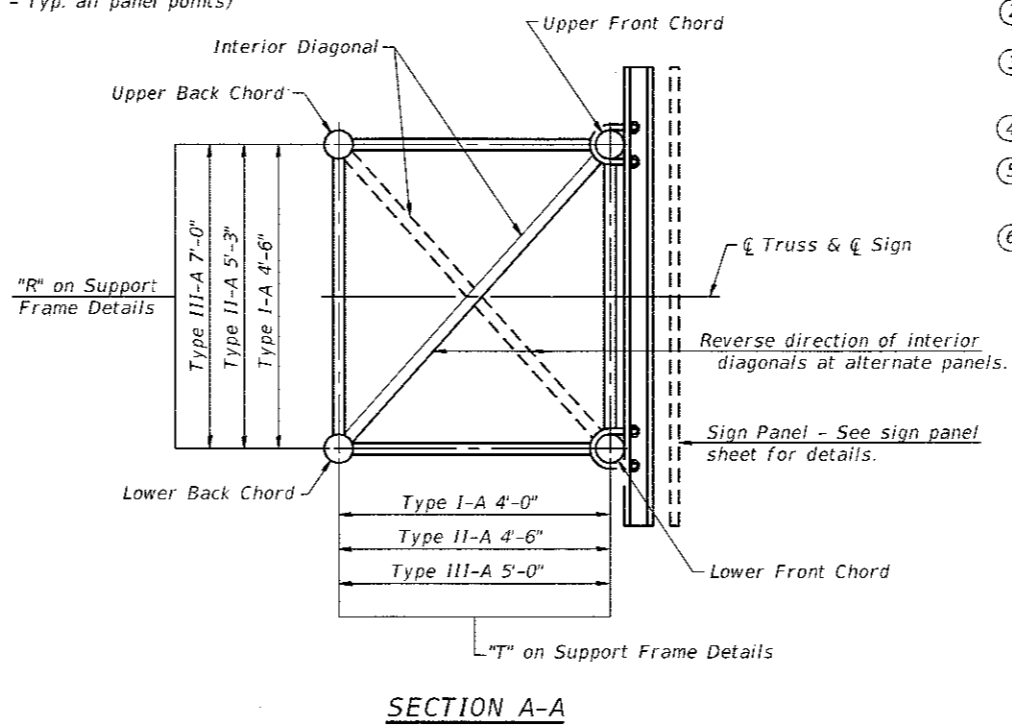
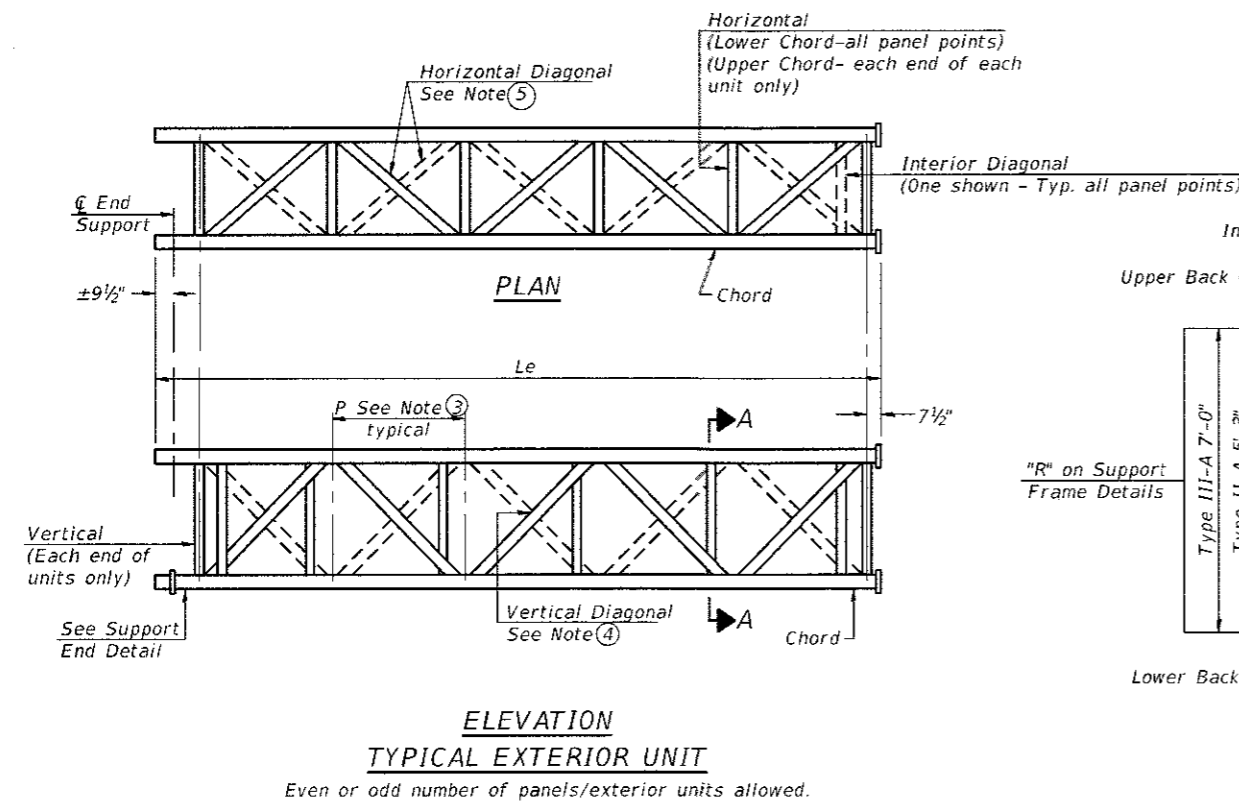
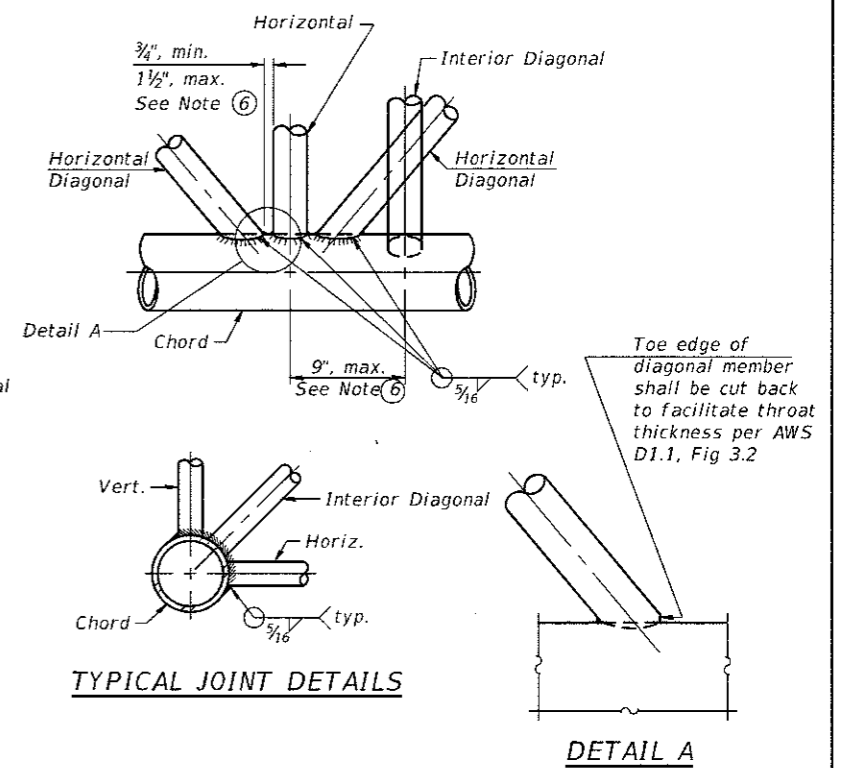
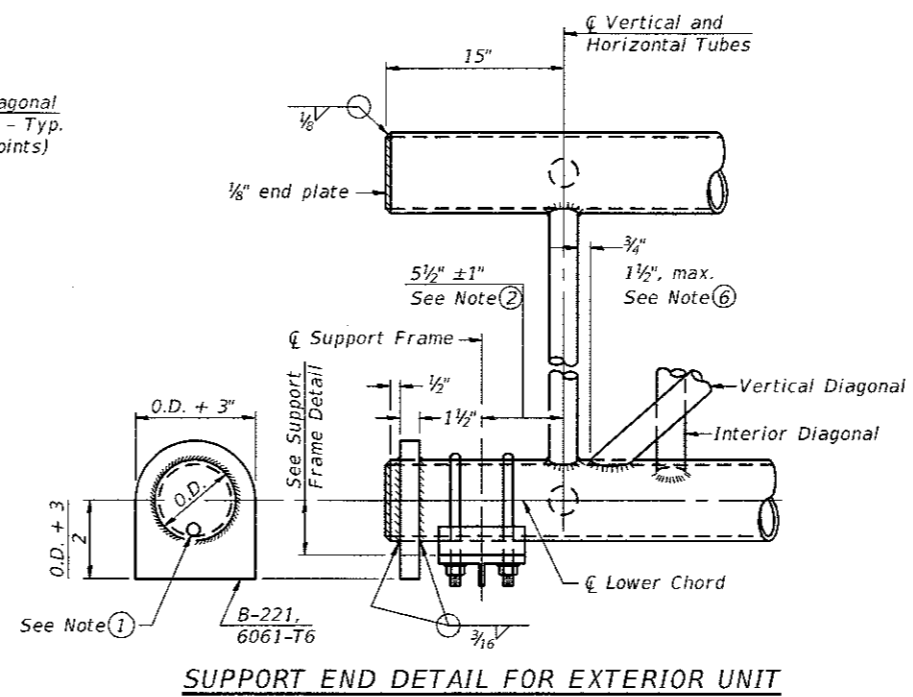
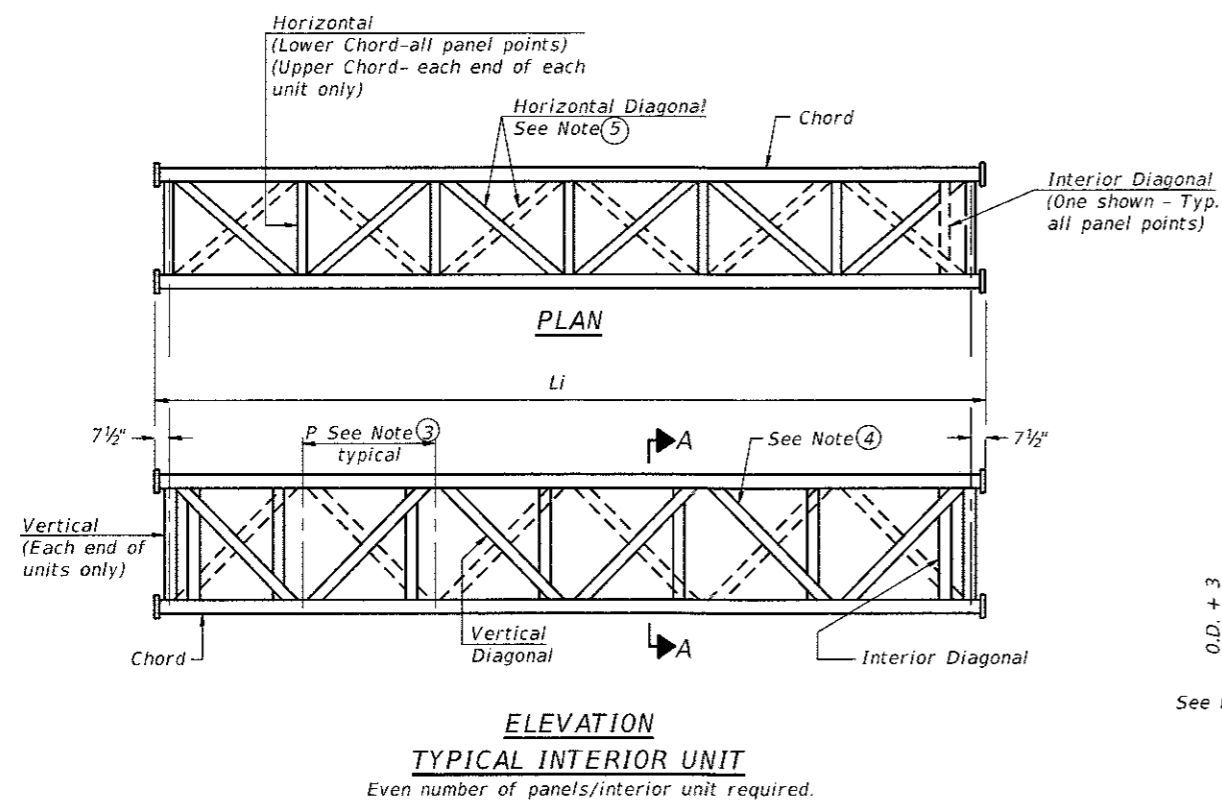


FILE NAME =	USER NAME = dudleygm	DESIGNED -	REVISED -
D:\OPERATIONS\Bridges\Bridgplans\CAD\465	- sign trusses 2018\plansheet.dgn	DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/29/2017	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LOCATION MAPS				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D6 OV SIN STR REP 18-27	VAR.	27	4
CONTRACT NO. 46465				
ILLINOIS FED. AID PROJECT				



- ① Contractor may alternatively use standard aluminum drive-fit cap to close end. 1/2" Ø drain hole in end plate/drive-fit cap. (Typ. at ends of all chords)
- ② 5 1/2" end dimension may vary by ±1" to provide uniform panel spacing (P).
- ③ Panel spacing (P) shall be uniform for entire truss and between 4'-0" and 5'-0" for Type I-A or 4'-0" and 5'-6" for Types II-A and III-A.
- ④ Vertical Diagonals in front and back face shall alternate.
- ⑤ Hidden lines show wind bracing alternates direction between planes of top and bottom chords.
- ⑥ All diagonals shall be detailed for minimum offset from the panel point based on the following: Offset shall be such as to provide a 3/4" minimum to 1 1/2" maximum clearance between any diagonal and any horizontal or vertical member, and to provide clearance for U-bolt connections of signs or walkway brackets.

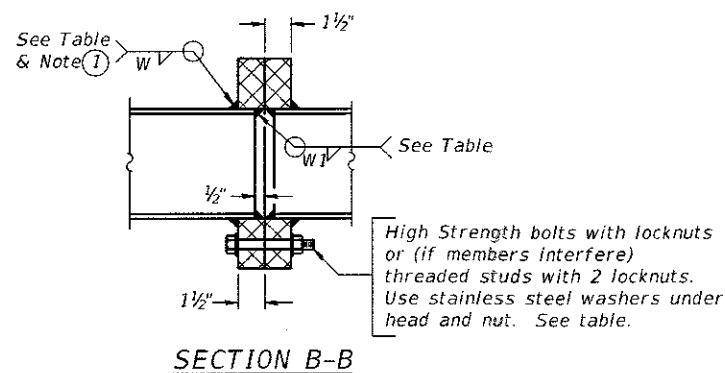
05-A-2

2-17-2017

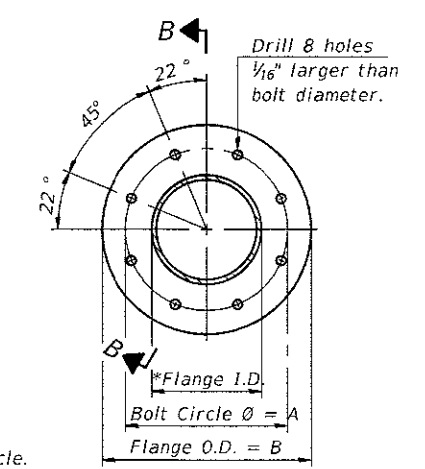
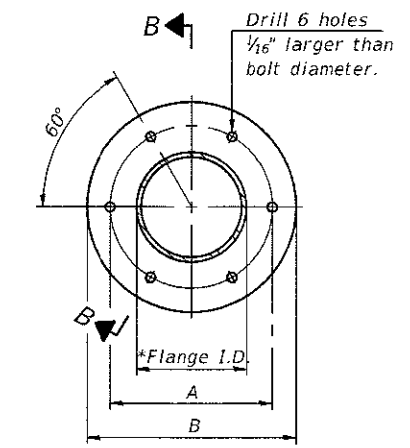
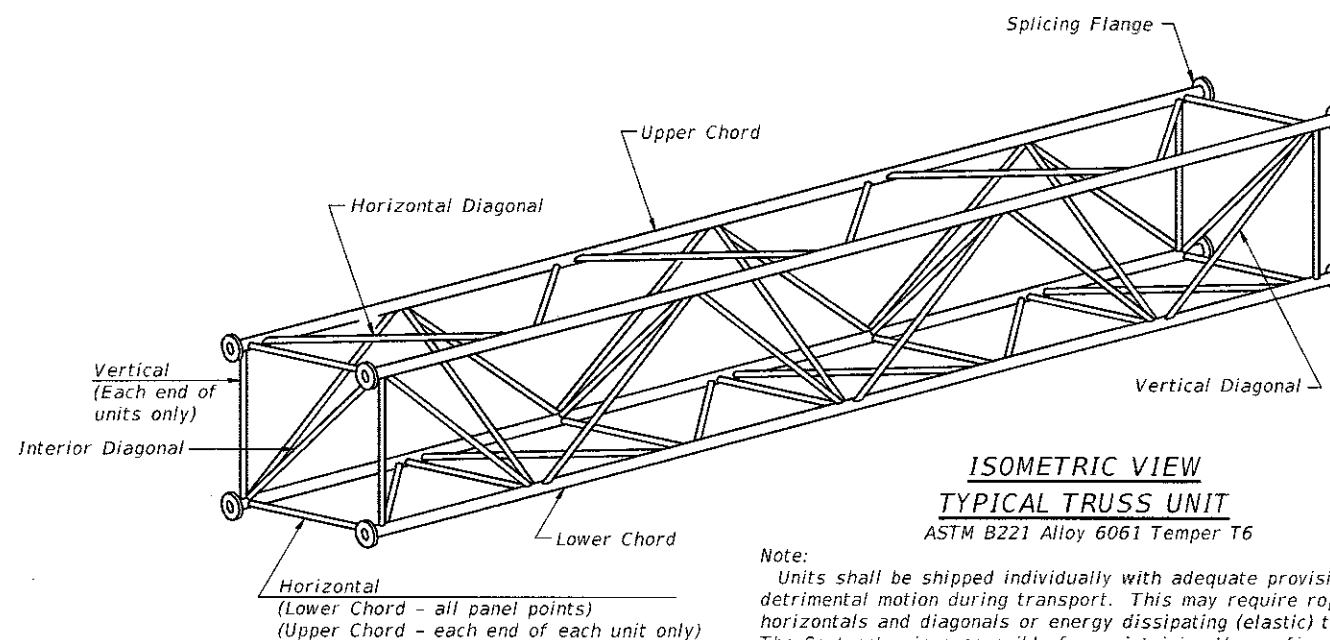
FILE NAME =	USER NAME = dudlejbm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS DETAILS FOR TRUSS TYPES I-A, II-A AND III-A	F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D:\OPERATIONS\Bridges\Bridgplans\CAD\465 - sign trusses 2018\plansheet.dgn	465 - sign trusses 2018\plansheet.dgn	DRAWN -	REVISED -			VAR. 06 0V SIN STR REP 18-27	VAR.	27	6	
PLOT SCALE = 100,0000 1/16"		CHECKED -	REVISED -			CONTRACT NO. 46465				
Default	PLOT DATE = 6/29/2017	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				

TRUSS UNIT TABLE

Structure Number	Station	Design Truss Type	Exterior Units (2)			Interior Unit				Upper & Lower Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals		Camber at Midspan	Splicing Flange					
			No. Panels per Unit	Unit Lgth.(L)	Panel Lgth.(P)	No. Req'd.	No. Panels per Unit	Unit Lgth.(L)	Panel Lgth.(P)	O.D.	Wall	O.D.	Wall		Bolts		Weld Sizes		A	B
															No./Splice	Dia.	W	W1		
6S0011172L001.4	54+80	I-A	5	25'-6 1/4"	4'-8 3/4"	1	6	29'-7 1/2"	4'-8 3/4"	5"	5/16"	2 1/2"	5/16"	2 1/4"	6	7/8"	5/16"	1/4"	8 3/4"	11 3/4"
6S0011172R000.3	1004+70	I-A	7	35'-3 1/4"	4'-9 1/4"	1	6	29'-10 1/2"	4'-9 1/4"	5 1/2"	5/16"	2 1/2"	5/16"	3 1/4"	6	7/8"	3/8"	1/4"	9 1/4"	12 1/4"
6S0691072L060RP	345+80	I-A	7	34'-3"	4'-7 1/2"	1	6	29'-0"	4'-7 1/2"	5 1/2"	5/16"	2 1/2"	5/16"	3 1/8"	6	7/8"	3/8"	1/4"	9 1/4"	12 1/4"
6S0841055R091.7	24+54	II-A	6	31'-9"	4'-11 3/4"	2	6	31'-1 1/2"	4'-11 3/4"	7"	3/8"	3"	5/16"	4 3/8"	8	1"	7/16"	5/16"	11 1/2"	15"



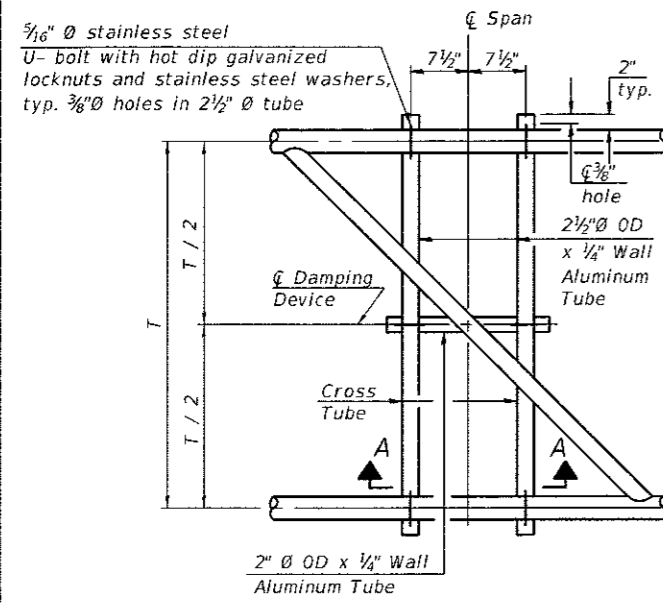
① Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining welds are made after disassembly. Adjacent flanges shall be "match marked" to insure proper field assembly.



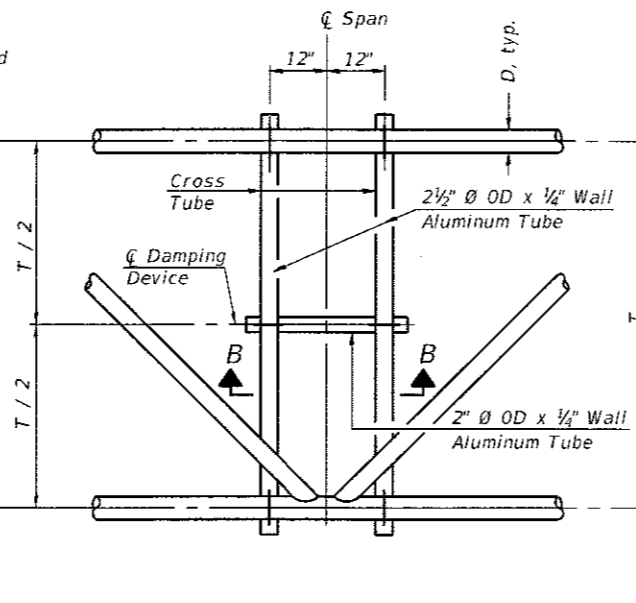
054-A-2

2-17-2017

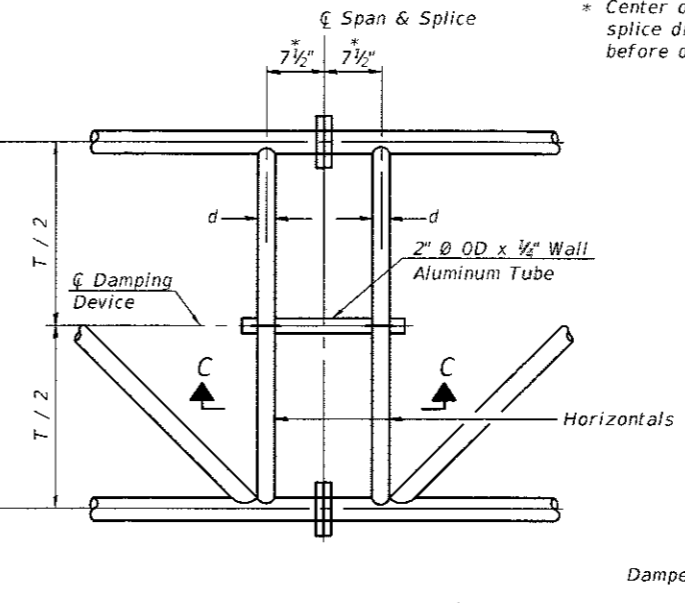
FILE NAME =	USER NAME = dudleybm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS DETAILS FOR TRUSS TYPES I-A, II-A AND III-A	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D:\OPERATIONS\Bridges\Bridgplans\CAD\4485 - sign trusses 2018\plansheet.dgn	DRAWN -	REVISED -	VAR.			D6 OV SIN STR REP 1B-27	VAR.	27	7	
PLDT SCALE = 100.0000 / in.	CHECKED -	REVISED -	CONTRACT NO. 46465							
PLDT DATE = 6/29/2017	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							
Default:				SCALE:	SHEET OF SHEETS	STA.	TO STA.			



PLAN DETAIL "A"
 ☐ Span between Panel Points



PLAN DETAIL "B"
 ☐ Span at Panel Point



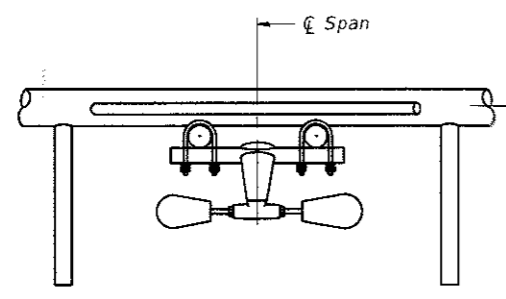
PLAN DETAIL "C"
 ☐ Span at ☐ Chord Splice

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

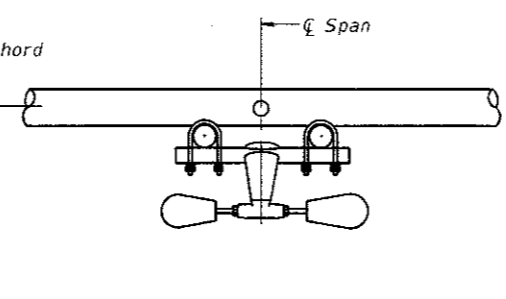
NOTES

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

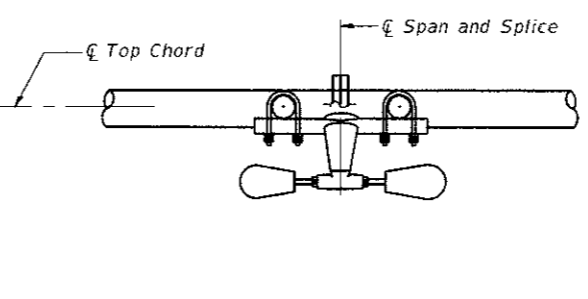
Materials: Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6. Cost included in Overhead Sign Structure...



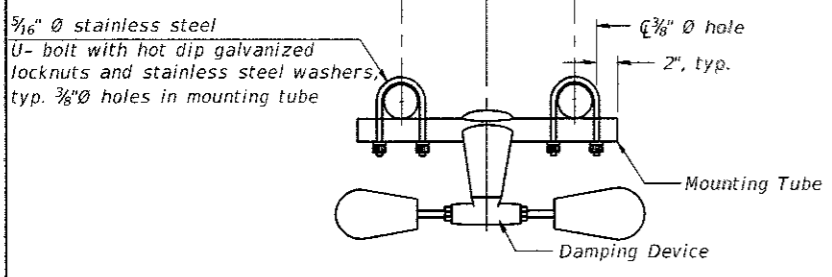
SECTION A-A



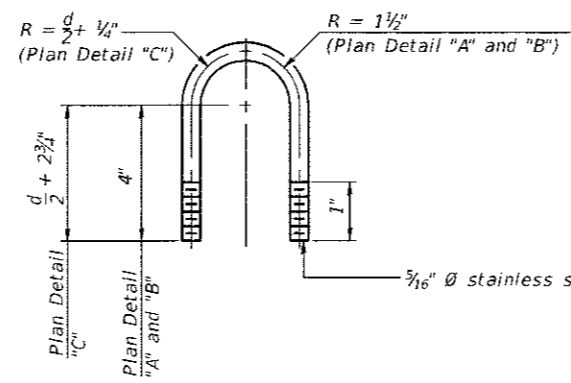
SECTION B-B



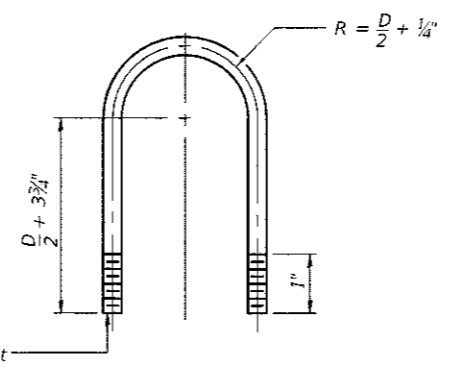
SECTION C-C



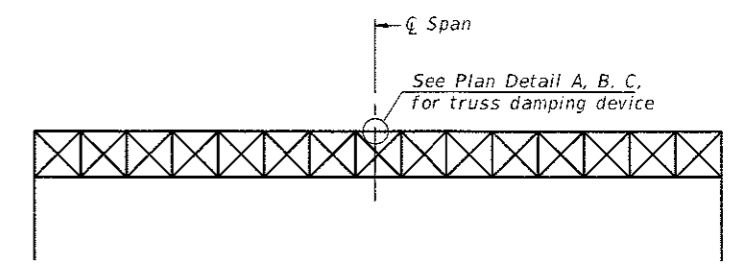
TRUSS DAMPING DEVICE CONNECTION DETAIL
 (Typical)



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL
 (Typical)



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



ELEVATION
 Aluminum Overhead Sign Truss

OS-A-D

2-17-2017

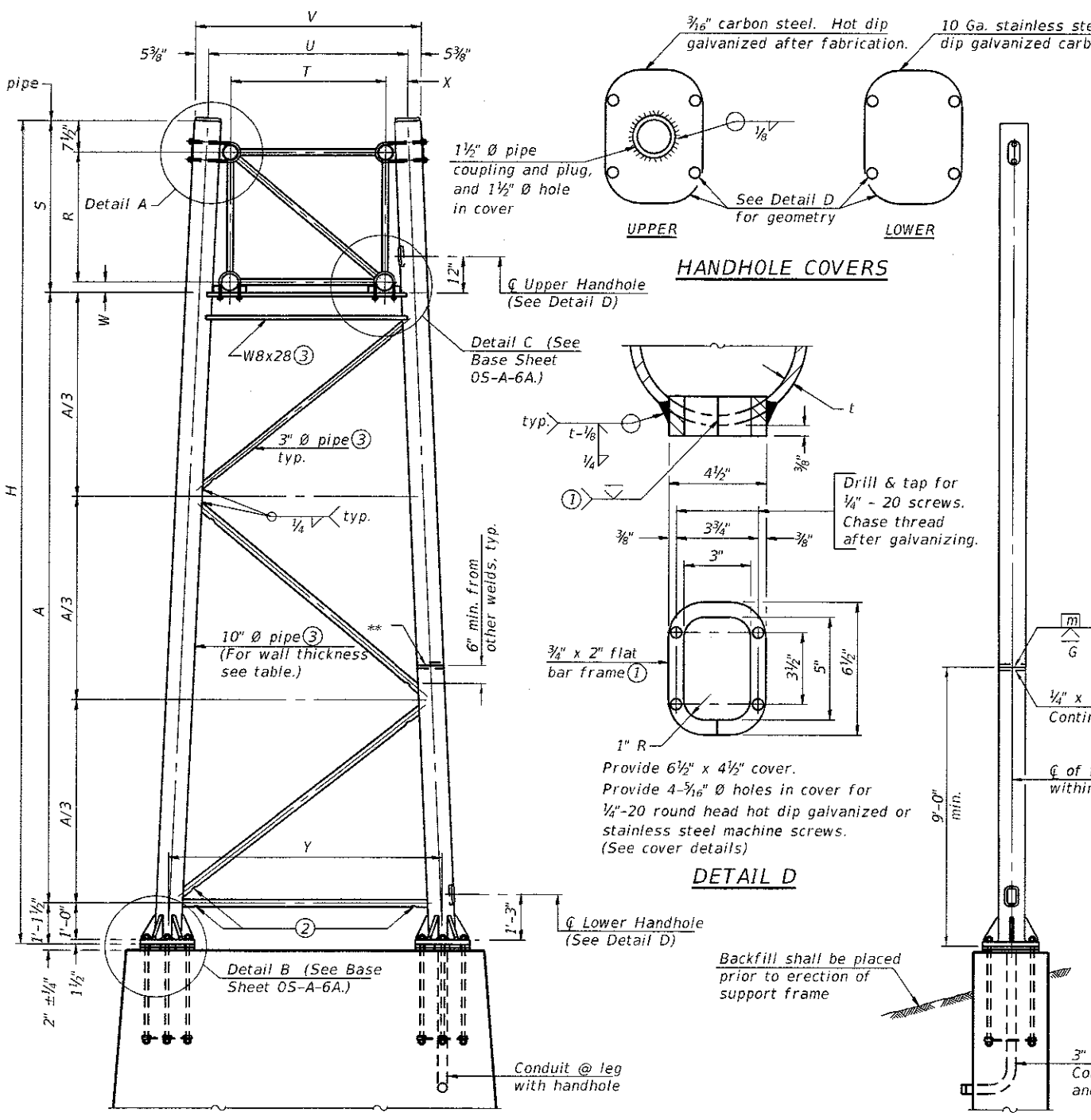
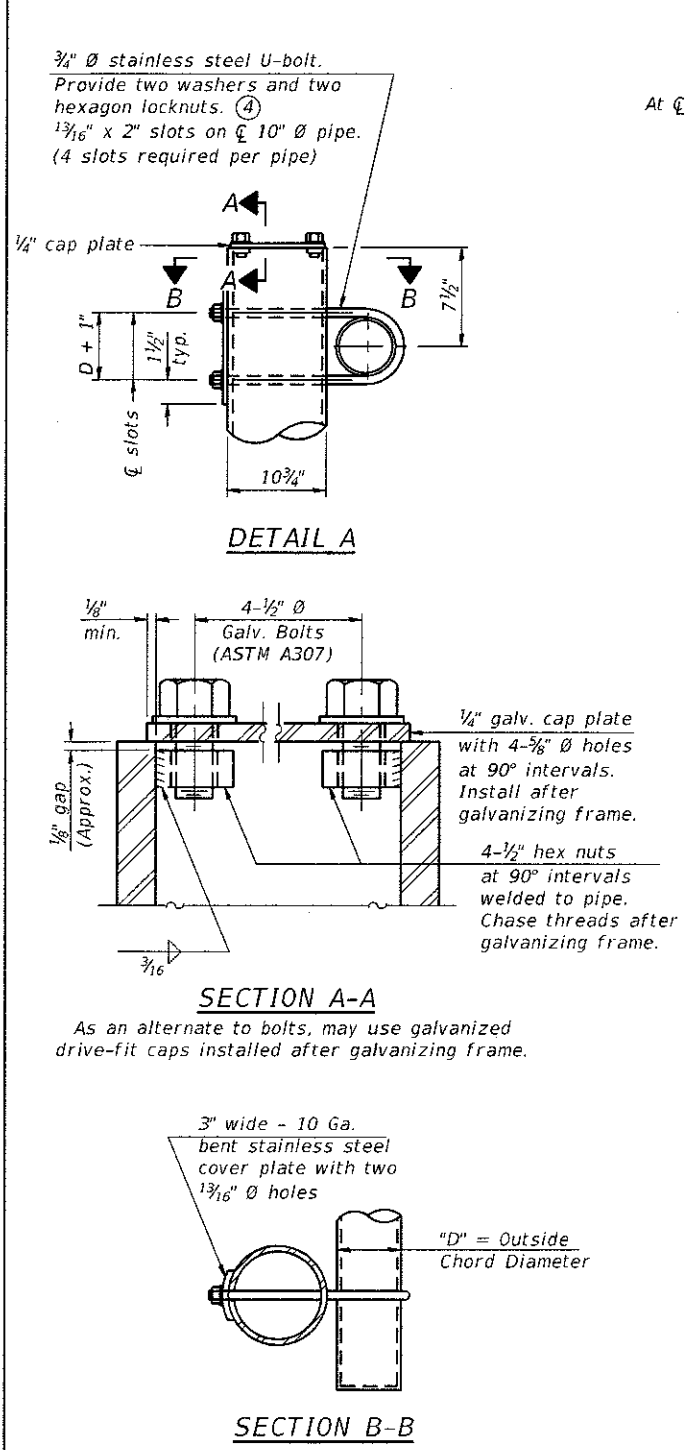
FILE NAME :	USER NAME :	DESIGNED :	REVISED :
DR\OPERATIONS\Bridges\Bridges\plans\CAD\465 - sign trusses 2018\plansheet.dgn	dudleygm	-	-
PLOT SCALE :	CHECKED :	DATE :	REVISED :
100.0000 / 1 in.	-	-	-
PLOT DATE :	DATE :	REVISED :	-
6/29/2017	-	-	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURE
 DAMPING DEVICE**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR. D6 OV SIN STR REP 18-27		VAR.	27	8
CONTRACT NO. 46465				
ILLINOIS FED. AID PROJECT				



- Support Design Loads: See Base Sheet 05-A-1 for design and loading criteria.
 Load combinations checked include deadload plus:
 a) 100% wind normal to sign, 20% parallel to sign
 b) 60% wind normal to sign, 30% parallel to sign
- In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500µ in or less.
 - Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.
 - Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet 05-A-1.
 - See General Notes for fasteners.
 - Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.
 - "H" based on 15'-0" or actual sign height, whichever is greater.

For Foundation Details, see base sheet 05-F3 (Spread Footing) or 054-F3 (Drilled Shaft).

Truss Type	Dimensions							
	R	S	T	U	V	W	X	Y
I-A	4'-6"	5'-5 1/2"	4'-0"	5'-6"	6'-4 3/4"	4"	9"	8'-3"
II-A (5)	5'-3"	6'-3 1/4"	4'-6"	6'-1"	6'-11 3/4"	4 3/4"	9 1/2"	8'-3"

10" Ø PIPE TRUSS SUPPORT FRAME
 ** One butt welded joint is allowed only on one post per support frame. If used, weld procedure must be pre-approved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

Structure Number	Station	Support		Truss Type	Pipe Wall Thickness	H (6)	A
		West	East				
6S0011172L001.4	54+80	X		I-A	0.279"	29' 11"	23' 4"
6S0011172L001.4	54+80		X	I-A	0.279"	26' 8"	20' 1"
6S0011172R000.3	1004+70	X		I-A	0.279"	30' 8"	24' 1"
6S0011172R000.3	1004+70		X	I-A	0.279"	26' 6"	19' 11"
6S0691072L060RP	345+80	X		I-A	0.279"	29' 4"	22' 9"
6S0691072L060RP	345+80		X	I-A	0.279"	29' 4"	22' 9"
6S0841055R091.7	24+54	X		II-A	0.365"	29' 11"	22' 7"
6S0841055R091.7	24+54		X	II-A	0.365"	28' 4"	21' 0"

05-A-6

2-17-2017

FILE NAME =	USER NAME = dudleybm	DESIGNED -	REVISED -
D:\OPERATIONS\Bridges\BridgesPlans\CAD\465 - sign trusses 2018\plansheet.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

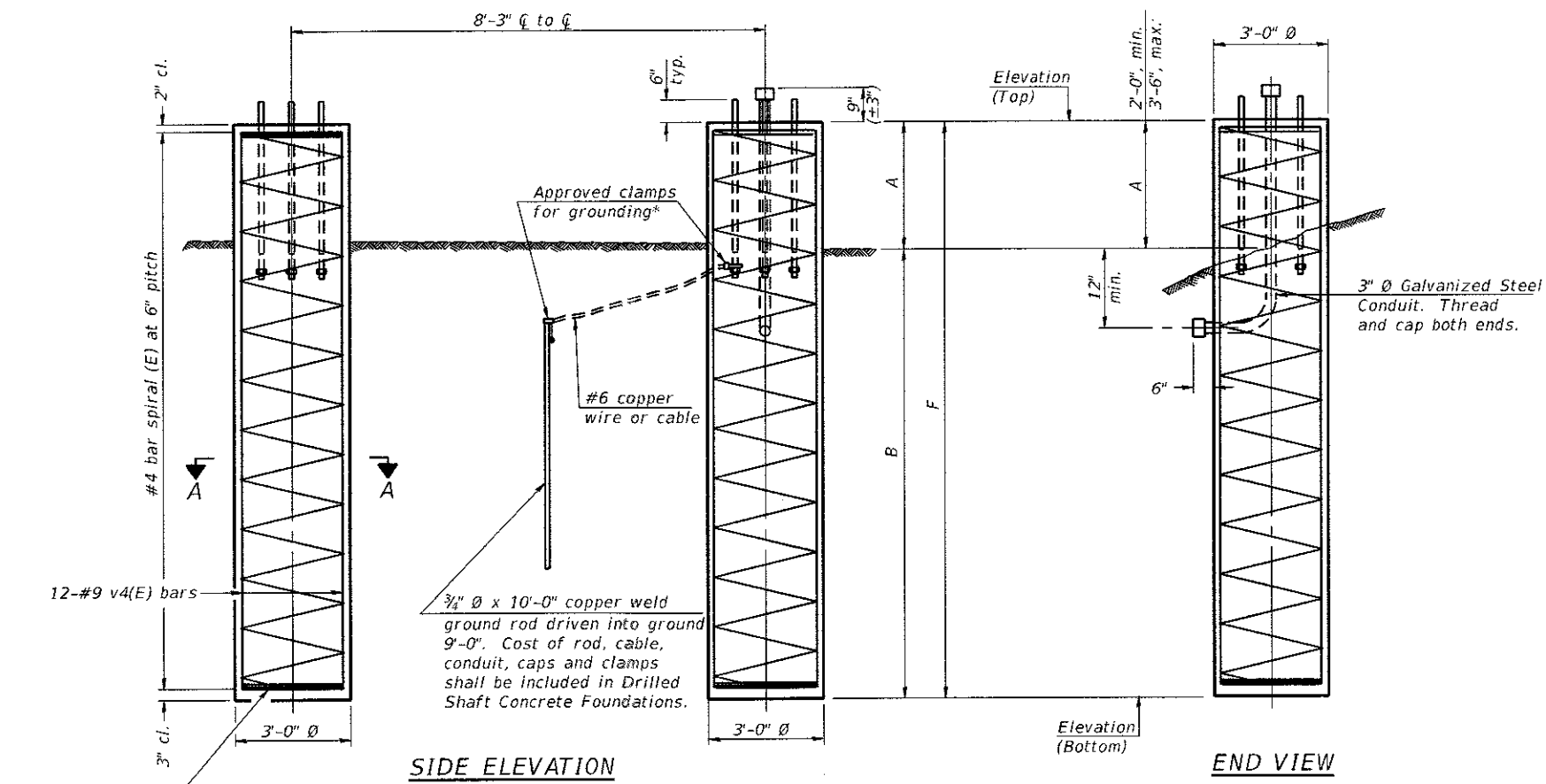
OVERHEAD SIGN STRUCTURES
 SUPPORT FRAME FOR ALUMINUM TRUSS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D6 OV SIN STR REP 18-27	VAR.	27	9
CONTRACT NO. 46465				
ILLINOIS FED. AID PROJECT				

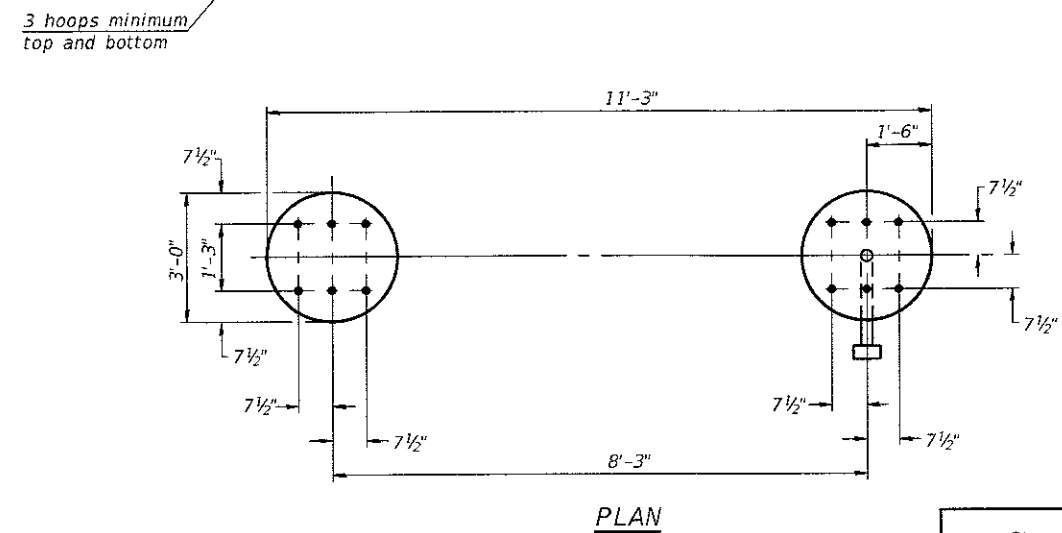
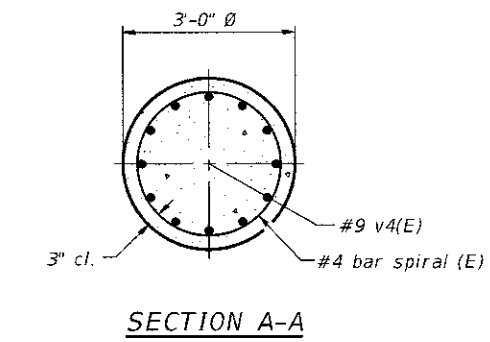
SCALE: SHEET OF SHEETS STA. TO STA.

BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
v4(E)	24	#9	F less 5"	—
#4 bar spiral (E) - see Side Elevation				



NOTES:
 The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.
 If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.
 No sonotubes or decomposable forms shall be used below the lower conduit entrance.
 Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.
 Concrete shall be placed monolithically, without construction joints.
 Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.
 A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.



For anchor rod size and placement, see Support Frame Detail Sheet.

* Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.

**DETAILS FOR 10" Ø SUPPORT FRAME
TYPE I-A or II-A TRUSS**

Structure Number	Station	West Foundation			East Foundation			Class DS Concrete (Cu. Yds.)				
		Elevation Top	Elevation Bottom	A	B	F	Elevation Top		Elevation Bottom	A	B	F
6S0011172L001.4	54+80	472.24	439.74	2.5'	30'	32.5'	475.51	443.01	2.5'	30'	32.5'	17.0
6S0011172R000.3	1004+70	461.99	437.99	2.5'	21.5'	24'	466.18	442.18	2.5'	21.5'	24'	12.6
6S0691072L060RP	345+80	618.86	594.86	2.5'	21.5'	24'	618.86	594.29	3.07'	21.5'	24.57'	12.7
6S0841055R091.7	24+54	595.58	566.08	2.5'	27'	29.5'	597.15	567.65	2.5'	27'	29.5'	15.4

0S4-F3

2-17-2017

FILE NAME =	USER NAME = dudleybm	DESIGNED -	REVISED -
D:\OPERATIONS\Bridges\Bridgplans\CAD\465 - sign trusses 2018\plansheet.dgn		DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000' / 1" =	CHECKED -	REVISED -
	PLOT DATE = 6/29/2017	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES
DRILLED SHAFT DETAILS**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR. 06 DV SIN STR REP 18-27		VAR.	27	11
CONTRACT NO. 46465				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.

GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES:
Field Units
 $f' = 3,500$ p.s.i.
 $f_y = 60,000$ p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specifications.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53.

All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer.

The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2) of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: Shall conform to ASTM F1554 Gr. 105.

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Concrete Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

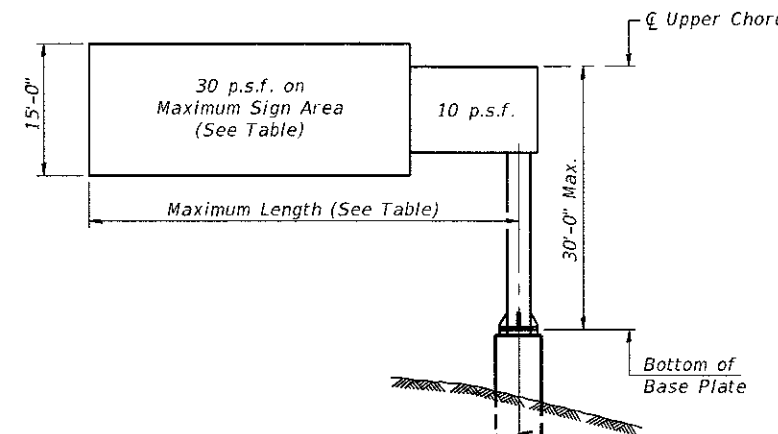
FOUNDATIONS: The contract unit price for Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE I-C-A	Foot	-
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE II-C-A	Foot	-
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE III-C-A	Foot	35
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	Foot	-
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	8.7

Structure Number	Station	Design Truss Type	Cantilever Length (L)	Elev. A	Dim. D	Ds	Total Sign Area
6C0B41055R083.2	433+20	III-C-A	35'	605.95	20'	6'	81 SF

Truss Type	Maximum Sign Area	Maximum Length
I-C-A	170 Sq. Ft.	25 Ft.
II-C-A	340 Sq. Ft.	30 Ft.
III-C-A	400 Sq. Ft.	40 Ft.



DESIGN WIND LOADING DIAGRAM

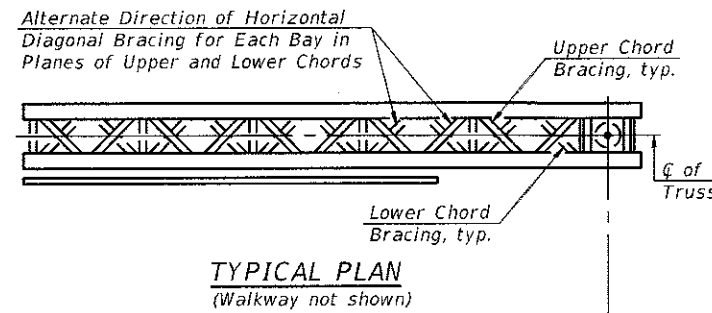
Parameters shown are basis for I.D.O.T. Standards. Installations not within dimensional limits shown require special analysis for all components.

Note:

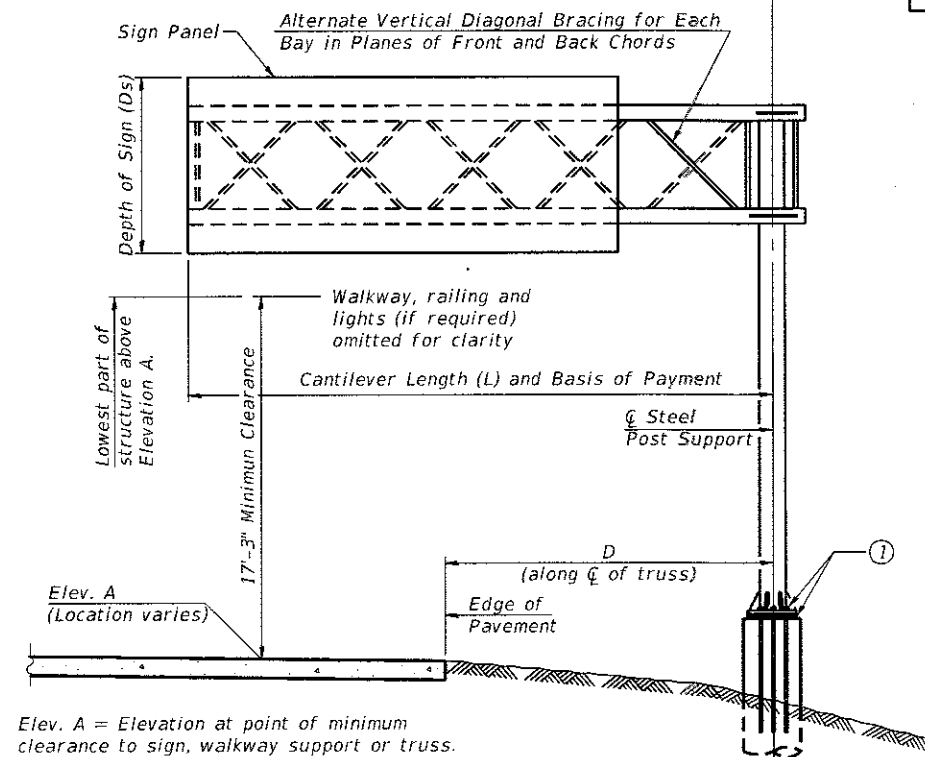
Trusses shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The contractor is responsible for maintaining the configuration and protection of the trusses.

- ① After adjustments to level truss and insure adequate vertical clearance, all top and leveling nuts shall be tightened against the base plate with a minimum torque of 200 lb.-ft. Stainless steel mesh shall then be placed around the perimeter of the base plate. Secure to base plate with stainless steel banding.

* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.



TYPICAL PLAN
(Walkway not shown)



TYPICAL ELEVATION

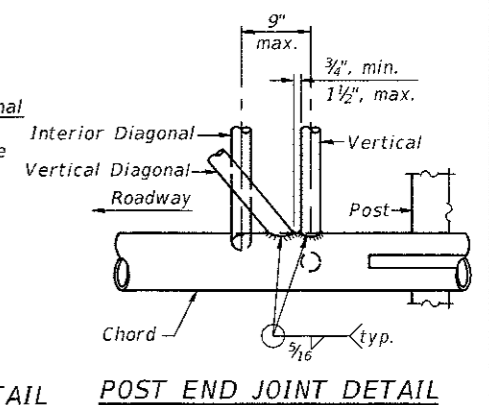
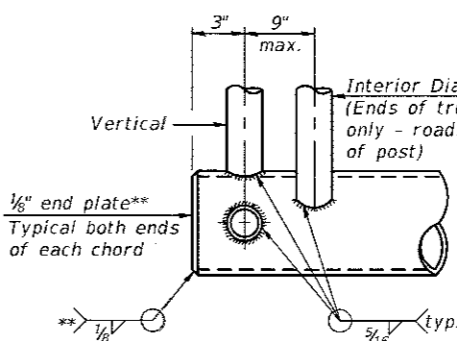
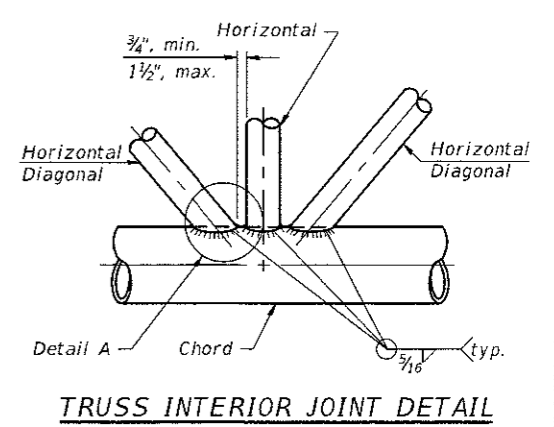
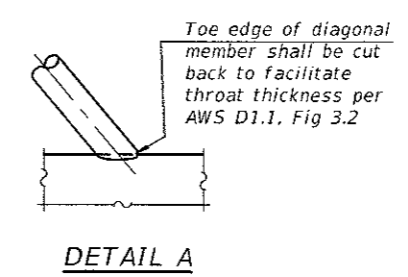
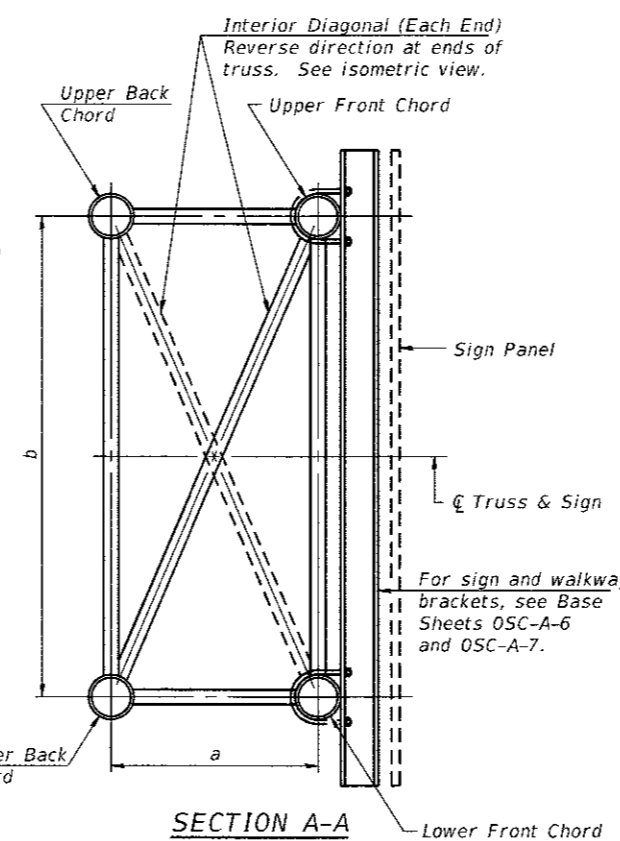
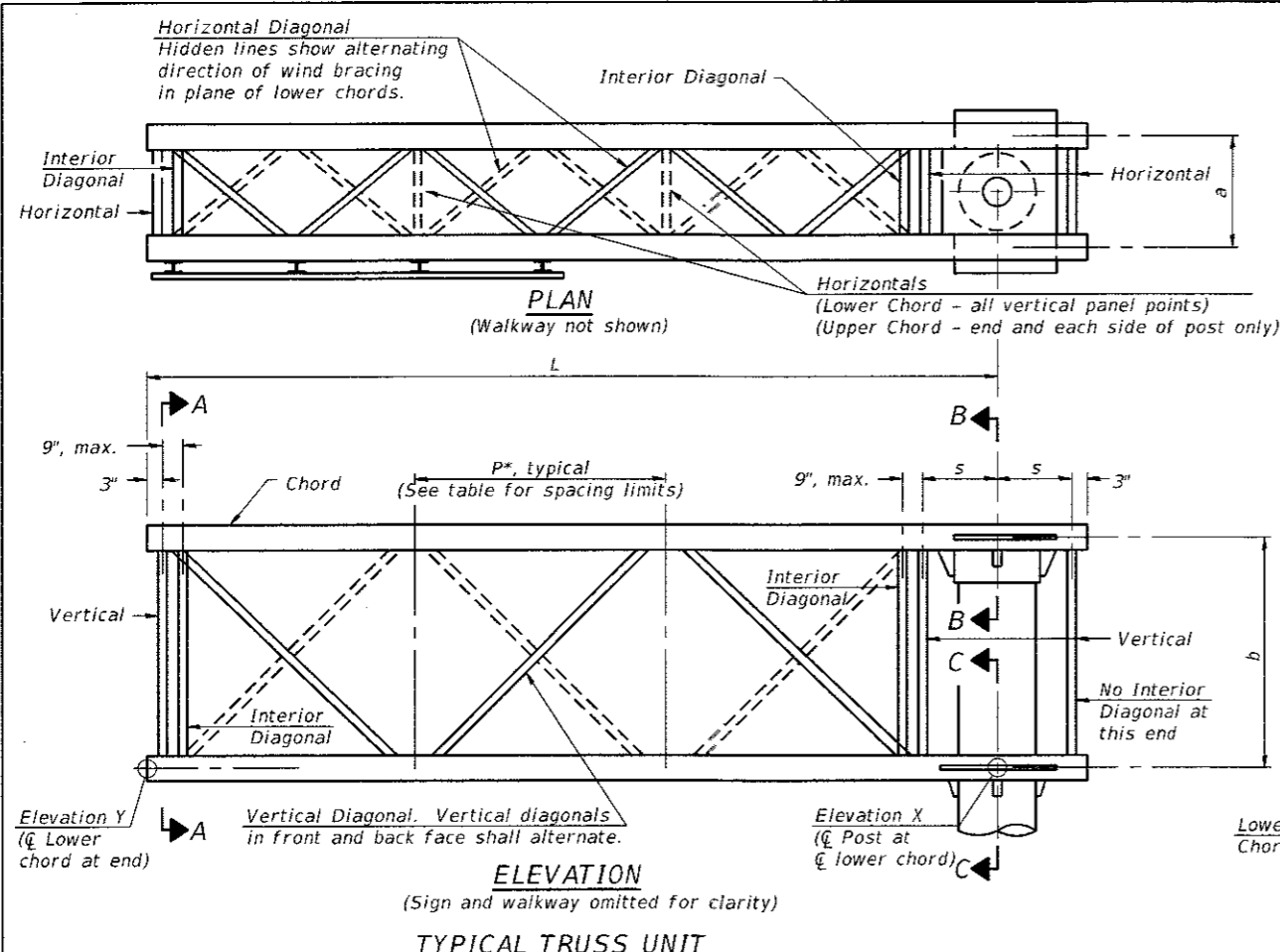
Looking in Direction of Traffic

Sign support structures may be subject to damaging vibrations and oscillations when sign panels are not in place during erection or maintenance of the structure. To avoid these vibrations and oscillations, consideration should be given to attaching temporary blank sign panels to the structure.

OSC-A-1

2-17-2017

FILE NAME =	USER NAME = dudleybm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CANTILEVER SIGN STRUCTURES - GENERAL PLAN & ELEVATION ALUMINUM TRUSS & STEEL POST	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D:\OPERATIONS\Bridges\Bridgplans\CAD\4465 - sign trusses 2018\plansheet.dgn	DRAWN -	REVISED -	VAR.			D6 OV SIN STR REP 18-27	VAR.	27	12	
PLOT SCALE = 100.0000 / 1" =	CHECKED -	REVISED -	CONTRACT NO. 46465							
Default	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							



** Contractor may alternatively use standard aluminum drive-fit cap to close ends.
1/2" Ø Drain hole in end plate / drive-fit cap.

Note: For Section B-B and Section C-C, see Base Sheet OSC-A-3.

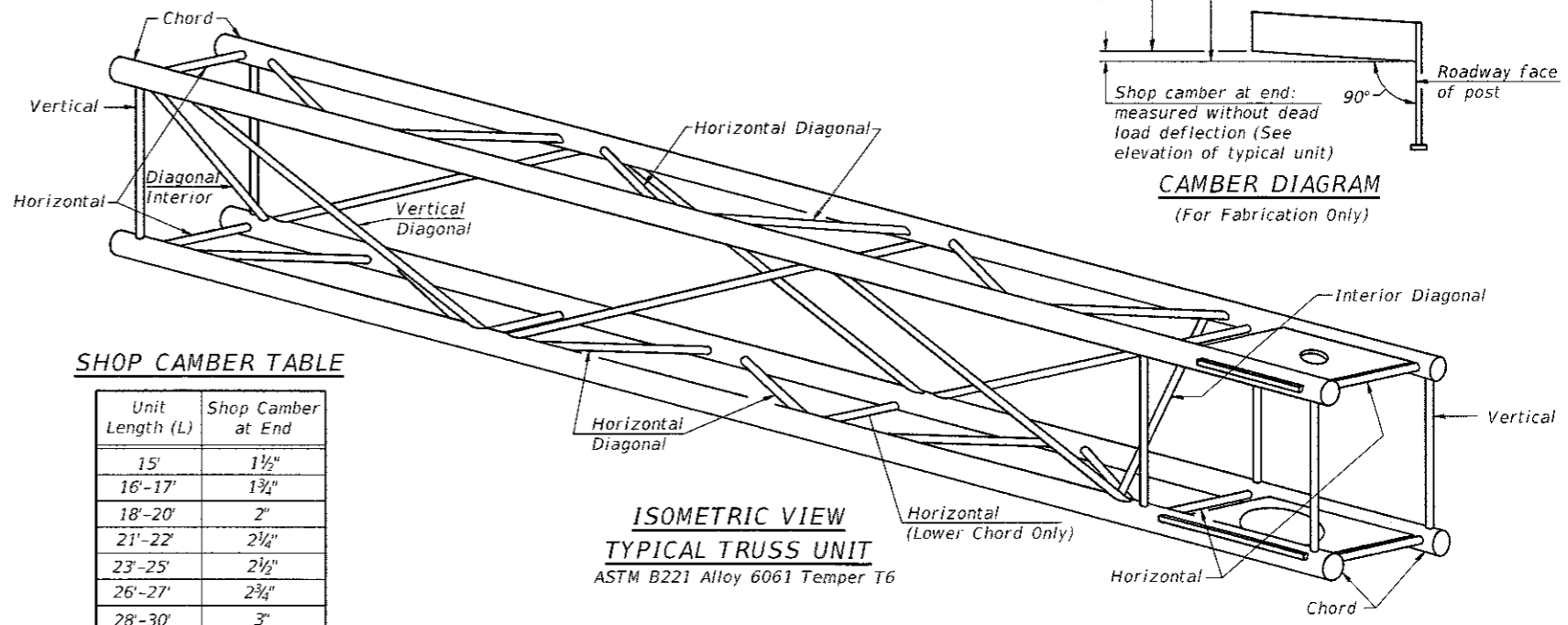
There are twice as many horizontal diagonals as there are vertical diagonals.

TRUSS UNIT TABLE

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

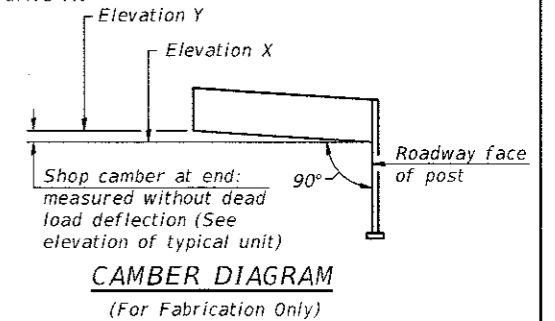
*P = $\frac{L-5'-3"}{\# \text{ Panels}}$

Structure Number	Station	Truss Type	Design Length (L)	Number of Panels Per Unit	Panel Length (P)*
6C0841055R083.2	433+20	III-C-A	35'	6	5.5'



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"



OSC-A-2

2-17-2017

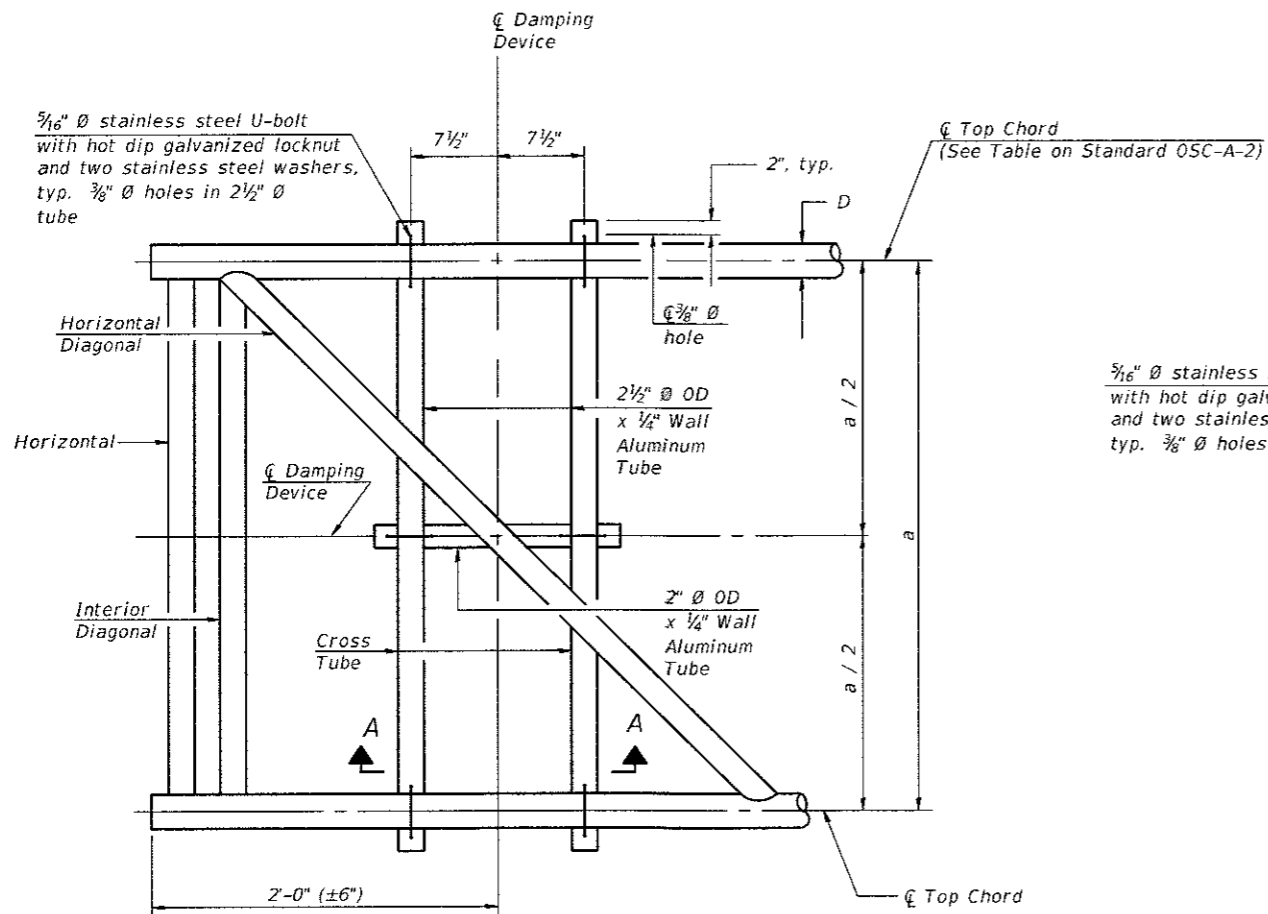
FILE NAME =	USER NAME = dudlayjm	DESIGNED -	REVISED -
Dr:\OPERATIONS\Bridges\Bridgplans\CAD\465 - sign trusses 2016\plansheet\dgn	465 - sign trusses 2016\plansheet\dgn	DRAWN -	REVISED -
PLOT SCALE = 1/8" = 1'-0"		CHECKED -	REVISED -
PLOT DATE = 6/29/2017		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

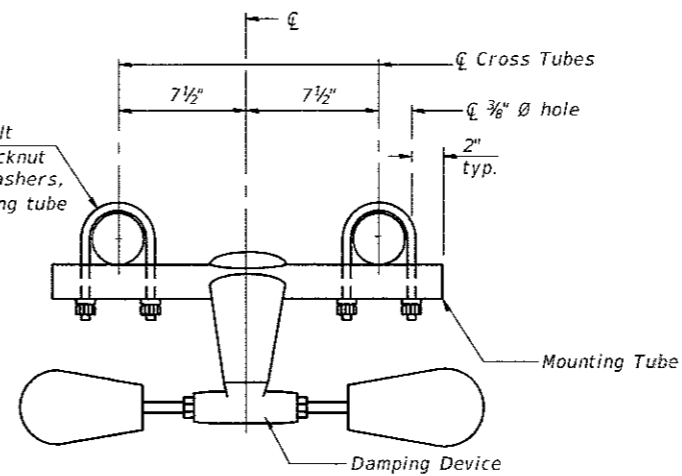
CANTILEVER SIGN STRUCTURES - TRUSS DETAILS
ALUMINUM TRUSS & STEEL POST

SCALE: SHEET OF SHEETS STA. TO STA.

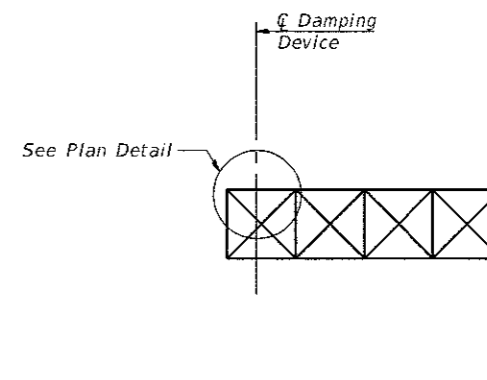
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR. D6 OV SIN STR REP 18-27		VAR.	27	13
CONTRACT NO. 46465				
ILLINOIS FED. AID PROJECT				



PLAN DETAIL



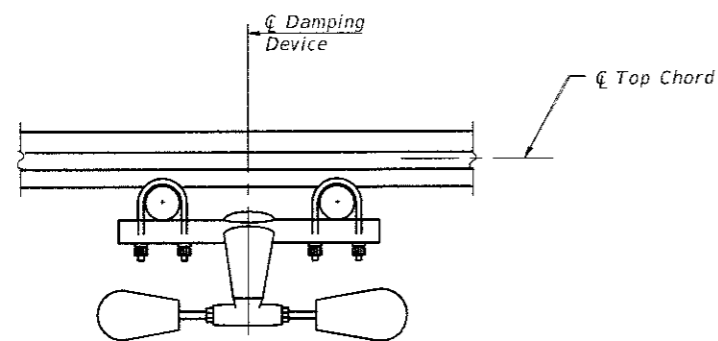
TRUSS DAMPING DEVICE CONNECTION DETAIL



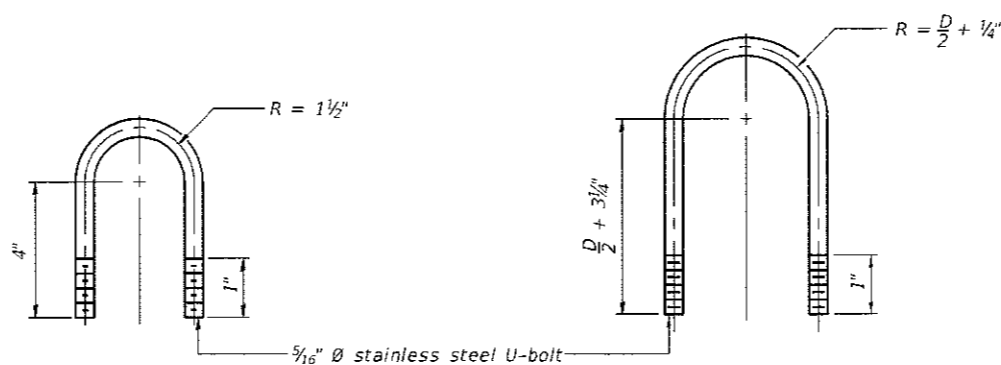
ELEVATION
Aluminum Cantilever
Sign Structure

GENERAL NOTES

- Damper: One damper per truss. (31 lbs. Stockbridge-Type Aluminum-29" minimum between ends of weights)
- Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6



SECTION A-A



DAMPING DEVICE MOUNTING
TUBE U-BOLT DETAIL
(Typical)

TOP CHORD TO CROSS TUBE
U-BOLT DETAIL
(Typical)

OSC-A-D

2-17-2017

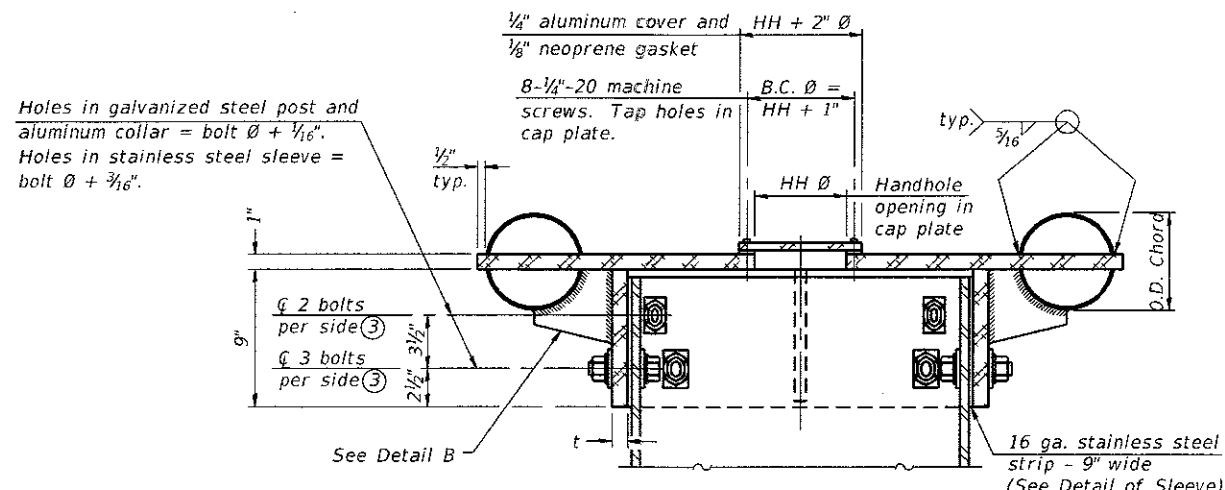
FILE NAME =	OPERATIONS\Bridges\Bridges\plans\CAD\465 - sign trusses 2018\plan\sheet.dgn	DESIGNED -	REVISIONS -
USER NAME = dudleyjm		DRAWN -	REVISIONS -
PLOT SCALE = 1/80.0000 / in.		CHECKED -	REVISIONS -
PLOT DATE = 6/29/2017		DATE -	REVISIONS -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURE
DAMPING DEVICE

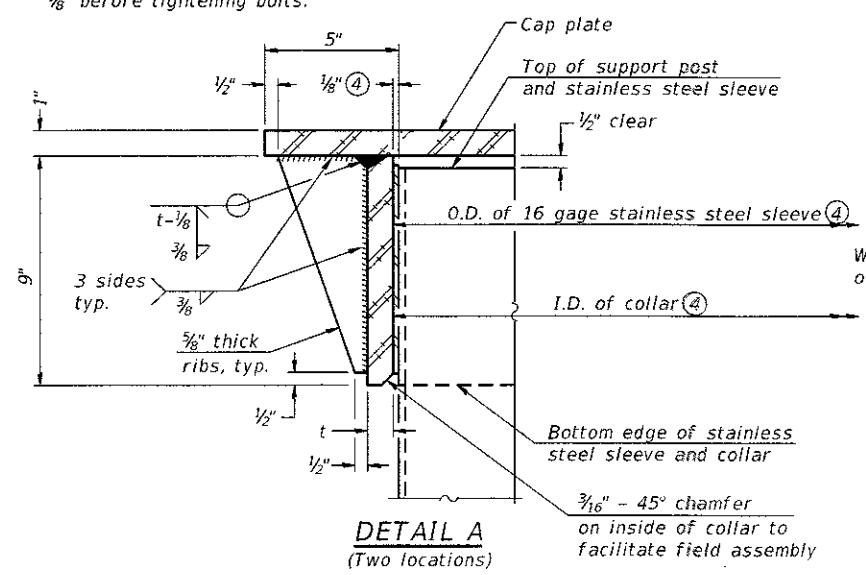
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR. 06 QV SJN STR REP 18-27		VAR.	27	14
CONTRACT NO. 46465				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.

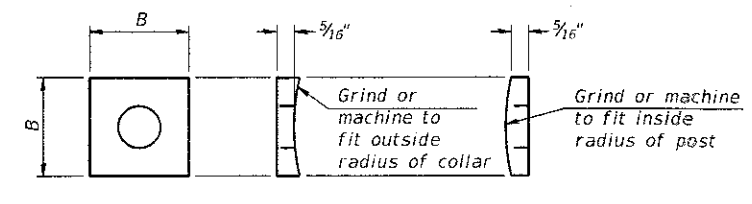


④ Collar I.D. shall be manufactured to correspond to O.D. of actual galvanized post and stainless steel sleeve plus 1/8" (±1/16"). Maximum gap between post and collar at any location equals 1/8" before tightening bolts.

SECTION B-B
Bolts, washers (including contoured washers), and locknuts shall be stainless steel.

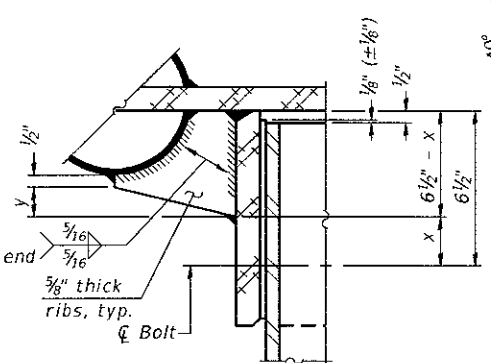


DETAIL A
(Two locations)
3/16" - 45° chamfer on inside of collar to facilitate field assembly

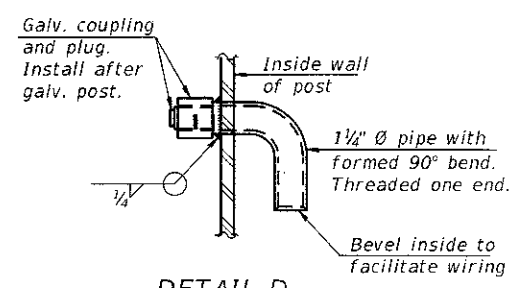


CONTOURED WASHERS

Bolt Size	Contoured Washers	
	Hole Dia.	B
7/8"	1"	2 1/2"
1"	1 1/8"	3"
1 1/4"	1 3/8"	3 1/4"



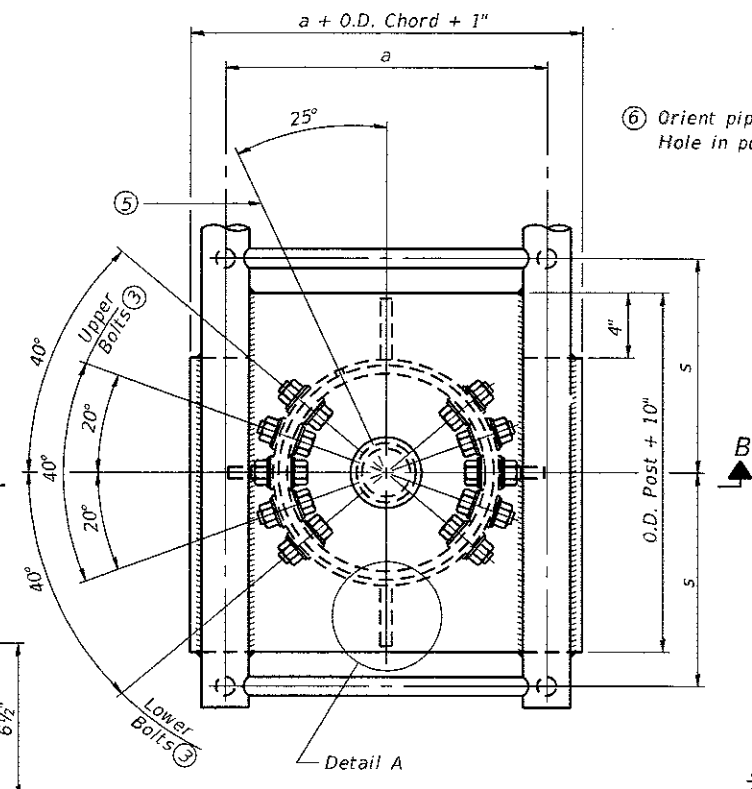
DETAIL B
Two locations
(For details not shown, see Detail C)



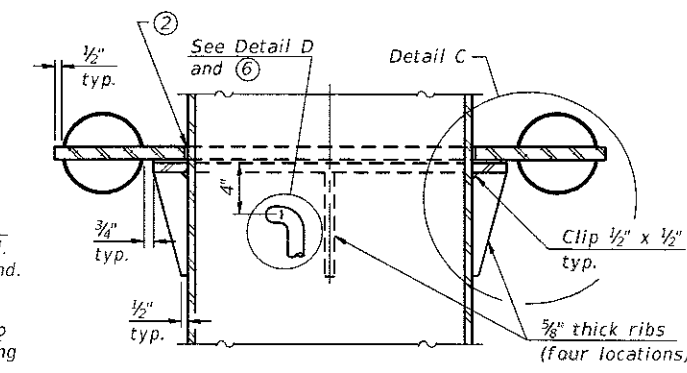
DETAIL D

DETAIL OF STAINLESS STEEL SLEEVE

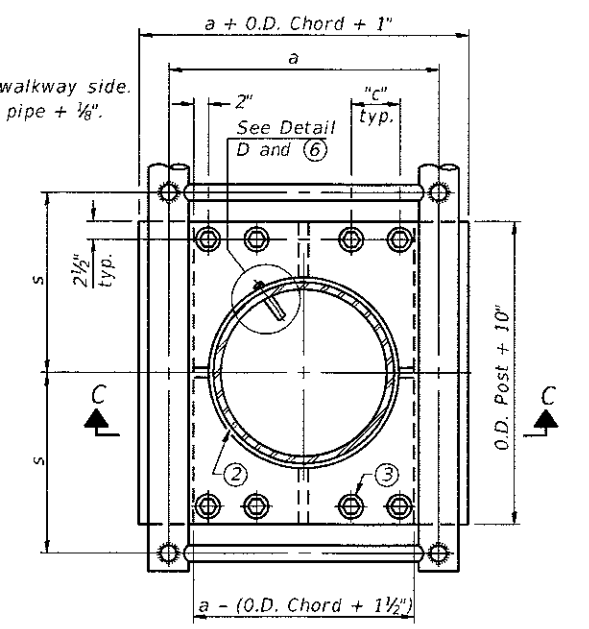
Weld to post after galvanizing. (Prepare post surface to insure tight, uniform fit and allow welding.) Welds to be 1 1/2" long at 6" cts. along top edge and at 1/4" opening.



PLAN VIEW - TOP OF COLUMN
⑤ Optional full penetration weld in collar. (Two locations maximum... (180° apart)... X-ray or UT 100%)

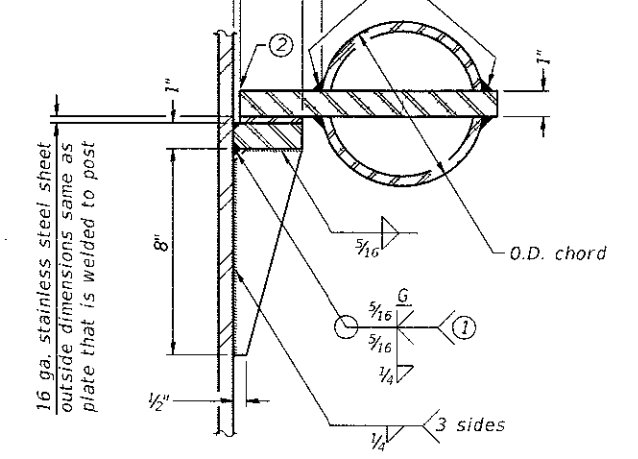


SECTION C-C



SECTION THRU POST ABOVE LOWER CHORDS

Hole in aluminum plate (and 16 ga. stnl. stl. sheet) to be O.D. post + 1/2"

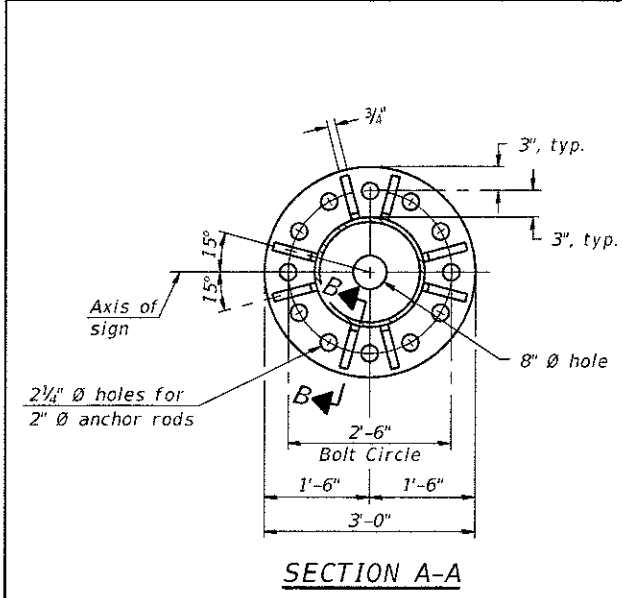


DETAIL C

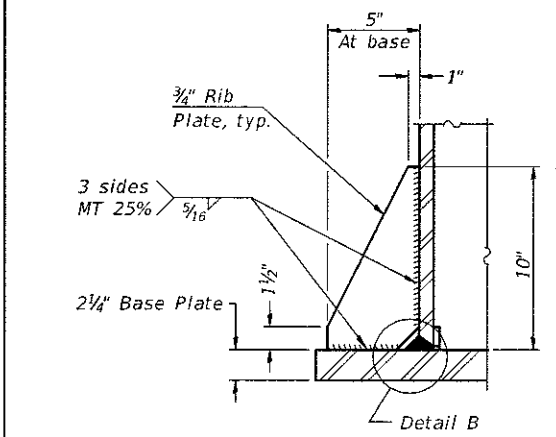
- ① Grind top if required to fully seat aluminum plate and stainless steel sheet.
- ② After tightening lower connection bolts, fill gap with non-hardening, silicone caulk suitable for exterior exposure and acceptable to the Engineer. Cost is included in Overhead Sign Structure Cantilever.
- ③ Upper and lower connection bolts in collar and bolts at lower chord connection shall be high strength with matching locknuts. Connection bolts shall have 2 stainless steel flat washers each.

Truss Type	Post Size	Upper & Lower Connection Bolt Diameter ③	Lower Junction Bolt Spacing Dimension "c" ③	Opening in Cap Plate "HH"	Collar Thickness (t)	Side Ribs	
						x	y
I-C-A	16" Ø (83#/')	7/8"	3 1/4"	8"	5/8"	1 3/4"	2 1/4"
II-C-A	24" Ø (125#/')	1"	3 1/2"	12"	7/8"	2"	1 1/4"
III-C-A (35' max.)	24" Ø (125#/')	1 1/4"	3 1/2"	12"	7/8"	2"	1"
III-C-A (>35' to 40')	24" Ø (171#/')	1 1/4"	3 1/2"	12"	7/8"	2"	1"

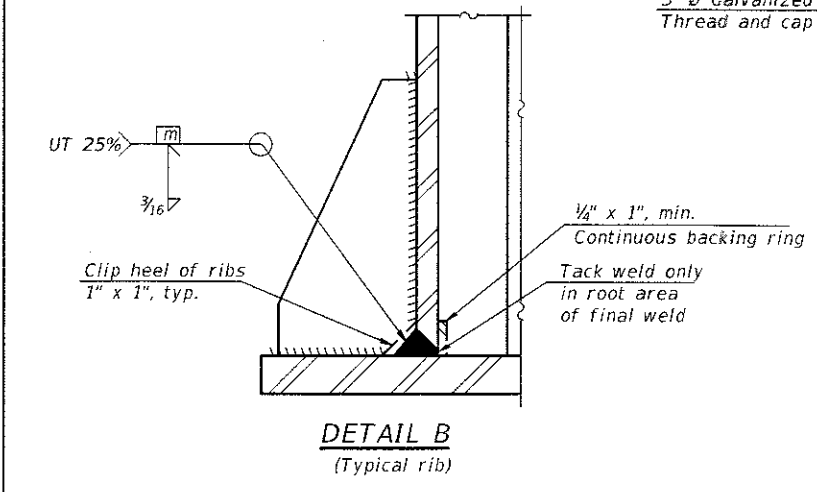
OSC-A-3 2-17-2017



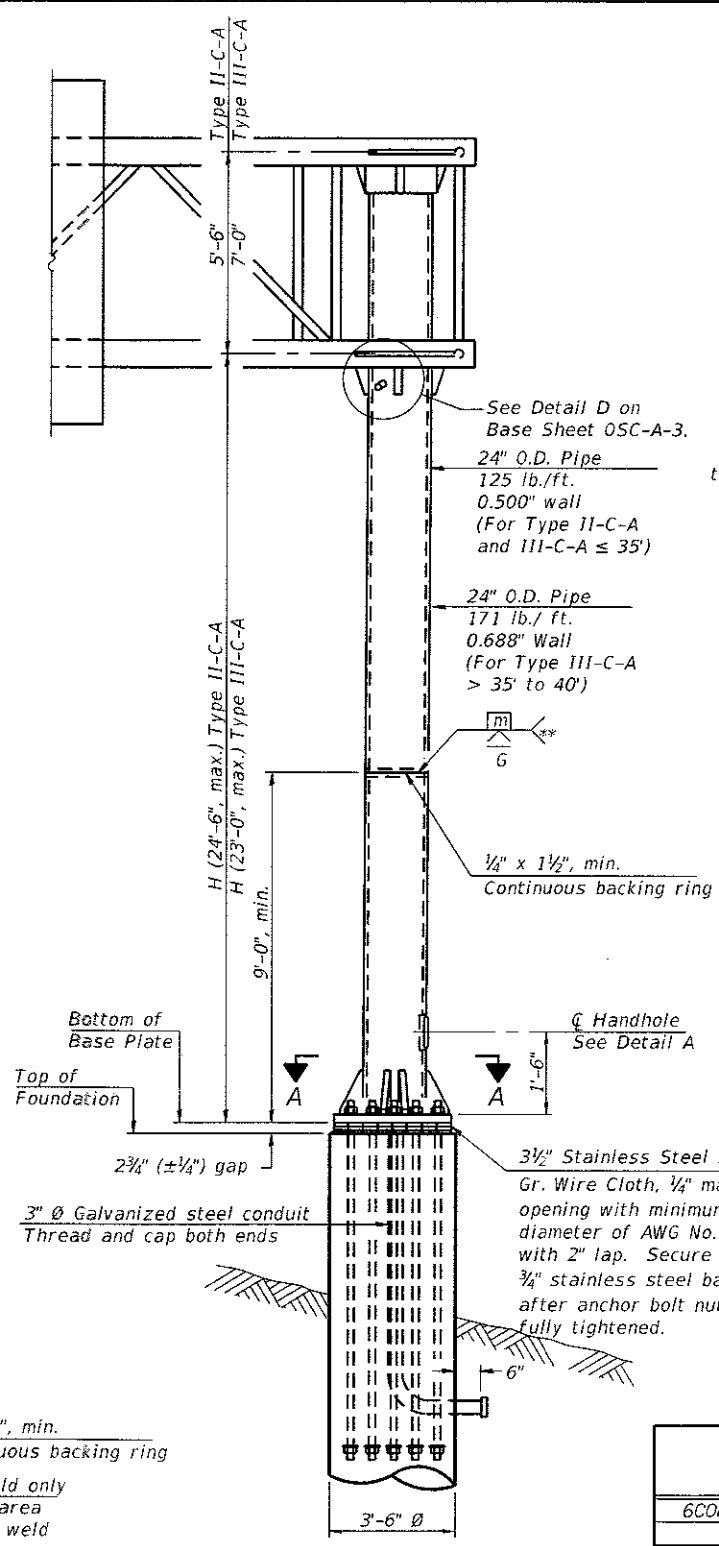
SECTION A-A



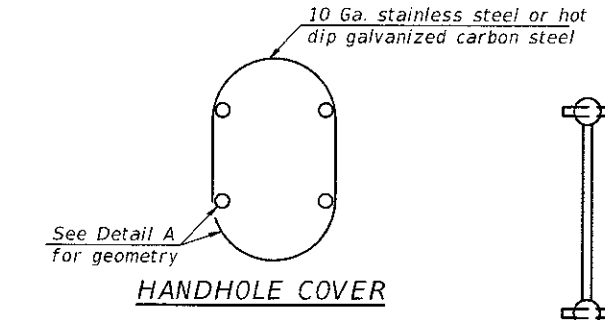
SECTION B-B



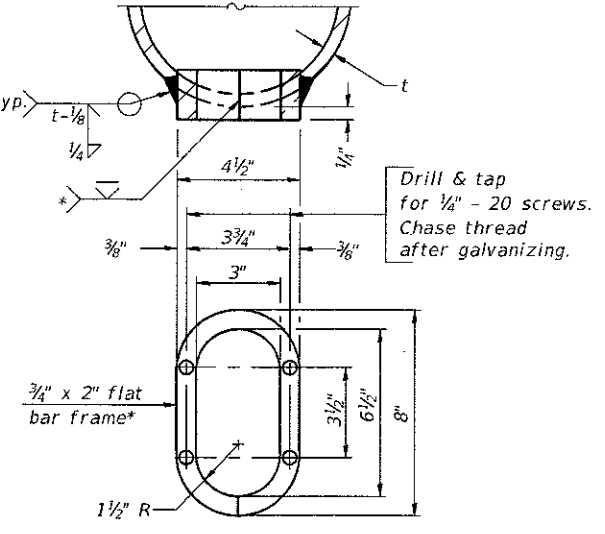
DETAIL B
(Typical rib)



FRONT ELEVATION
For Foundation Details see Base Sheet OSC-A-9.



HANDHOLE COVER

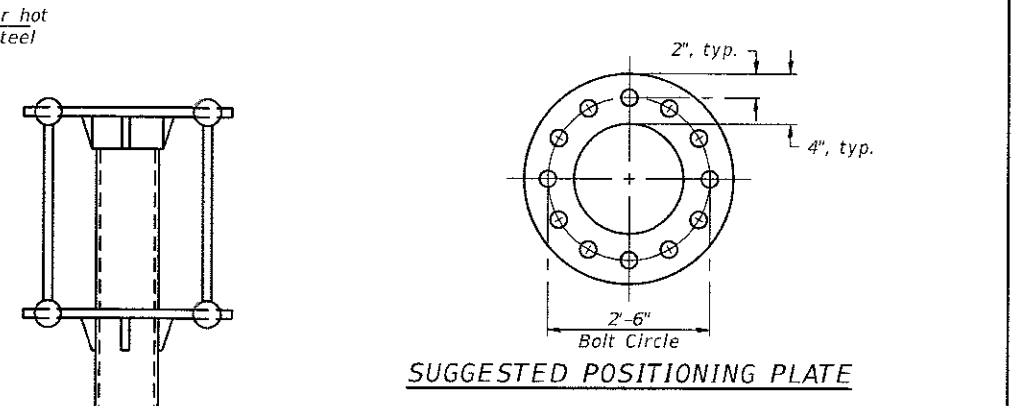


DETAIL A

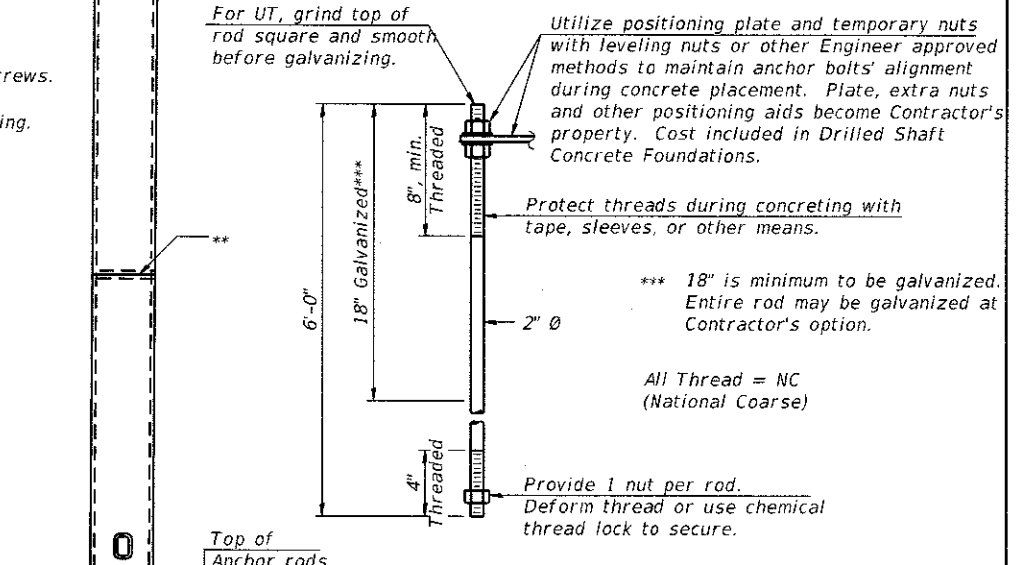
- * Bent bars may be butt welded top and bottom or bottom only. In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500µ in or less.
- ** Butt welded joint in post is only allowed for post heights (H) over 20 ft. in length. If used, weld procedure must be preapproved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

Structure Number	Station	H
6C0841055R083.2	433+20	28' 6"

Note: "H" based on 15'-0" or actual sign height, whichever is greater.

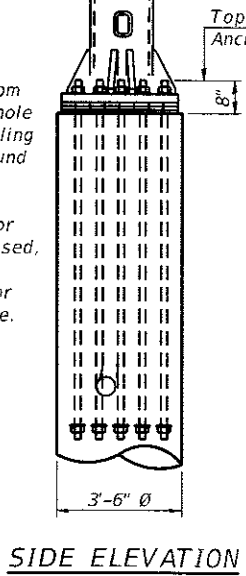


SUGGESTED POSITIONING PLATE



ANCHOR ROD DETAIL

Anchor rods shall conform to ASTM F1554 Grade 105. Galvanize the upper 18" (minimum**) and associated AASHTO M291, Grade A, C or DH heavy hex nuts and hardened washers per AASHTO M232. No welding shall be permitted on rods. Provide a nut at bottom, a hexagon locknut and washer above base plate and a leveling nut and washer below base plate. Nuts shall each be tightened with 200 lb.-ft. minimum torque against base plate. Before or after threading, but before galvanizing, each anchor rod shall be ultrasonically tested (UT) by a Level II or III inspector, qualified in accord with ANSI guidelines, to insure no rejectable flaws exist in the upper 18" (tension criteria). Cost of testing included in Drilled Shaft Concrete Foundations.



SIDE ELEVATION

OSC-A-5

2-17-2017

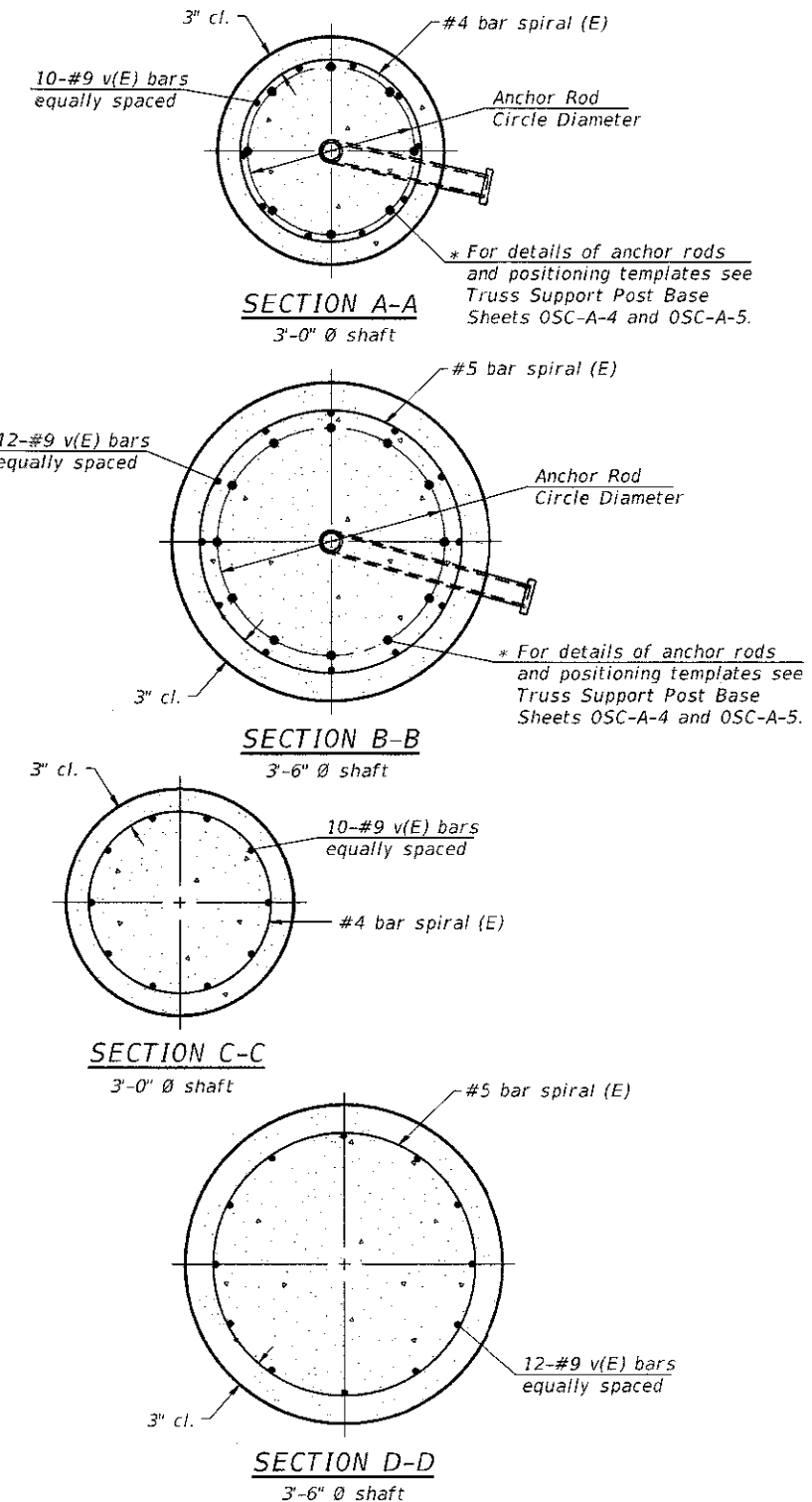
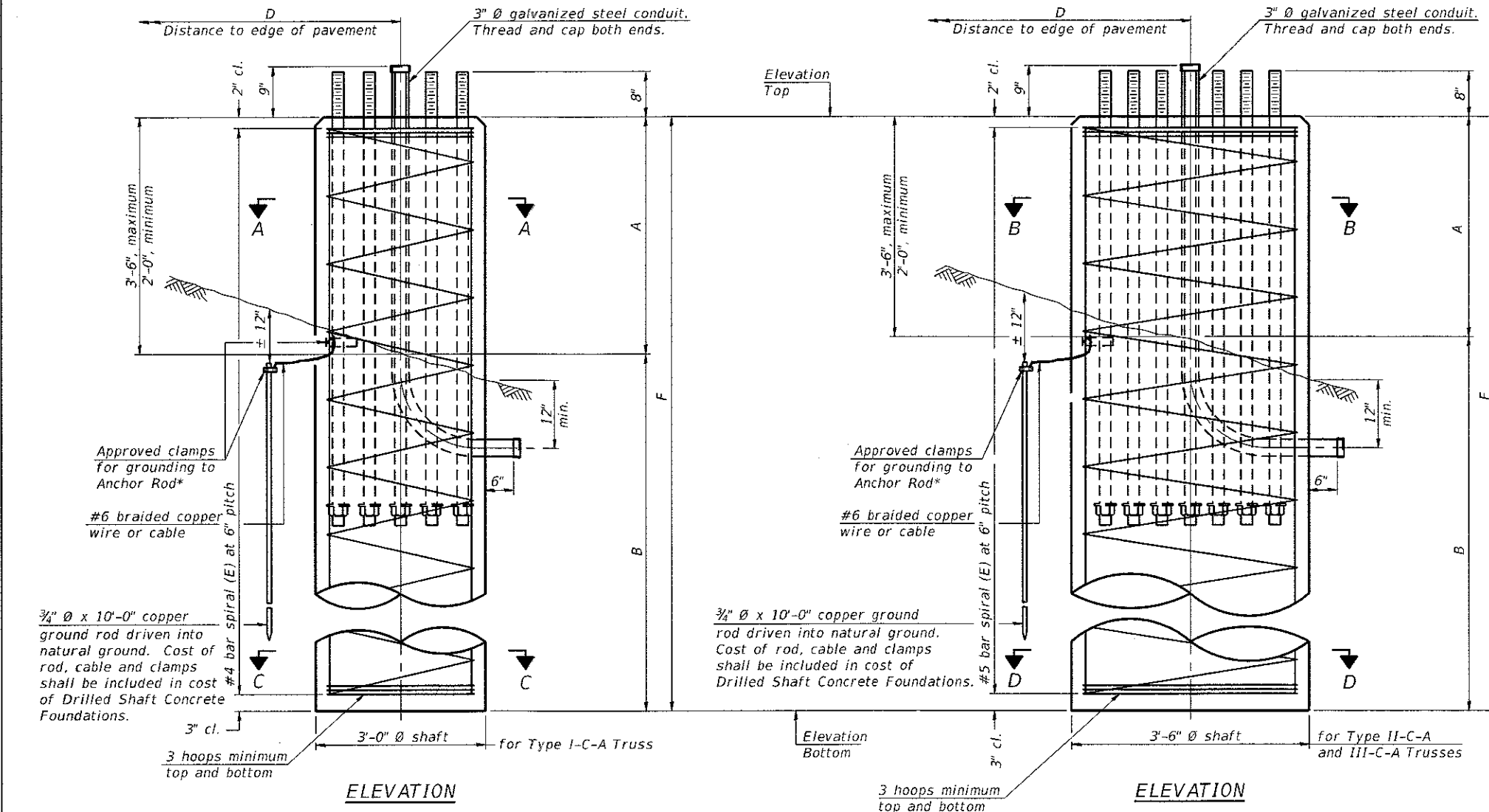
FILE NAME =	USER NAME = dudiejm	DESIGNED -	REVISED -
D:\OPERATIONS\Bridges\BridgPlans\CAD\4455 - sign trusses 2018\plansheet.dgn		DRAWN -	REVISED -
PLOT SCALE = 1/8" = 1'-0"		CHECKED -	REVISED -
PLOT DATE = 6/29/2017		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - TYPE II-C-A & III-C-A
TRUSS SUPPORT POST - ALUMINUM TRUSS & STEEL POST

F.A.I. RT-2	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	DG 0V SIN STR REP 18-27	VAR.	27	16
CONTRACT NO. 46465			ILLINOIS FED. AID PROJECT	

* Grind anchor rod to bright finish at ground clamp location before installing clamp.

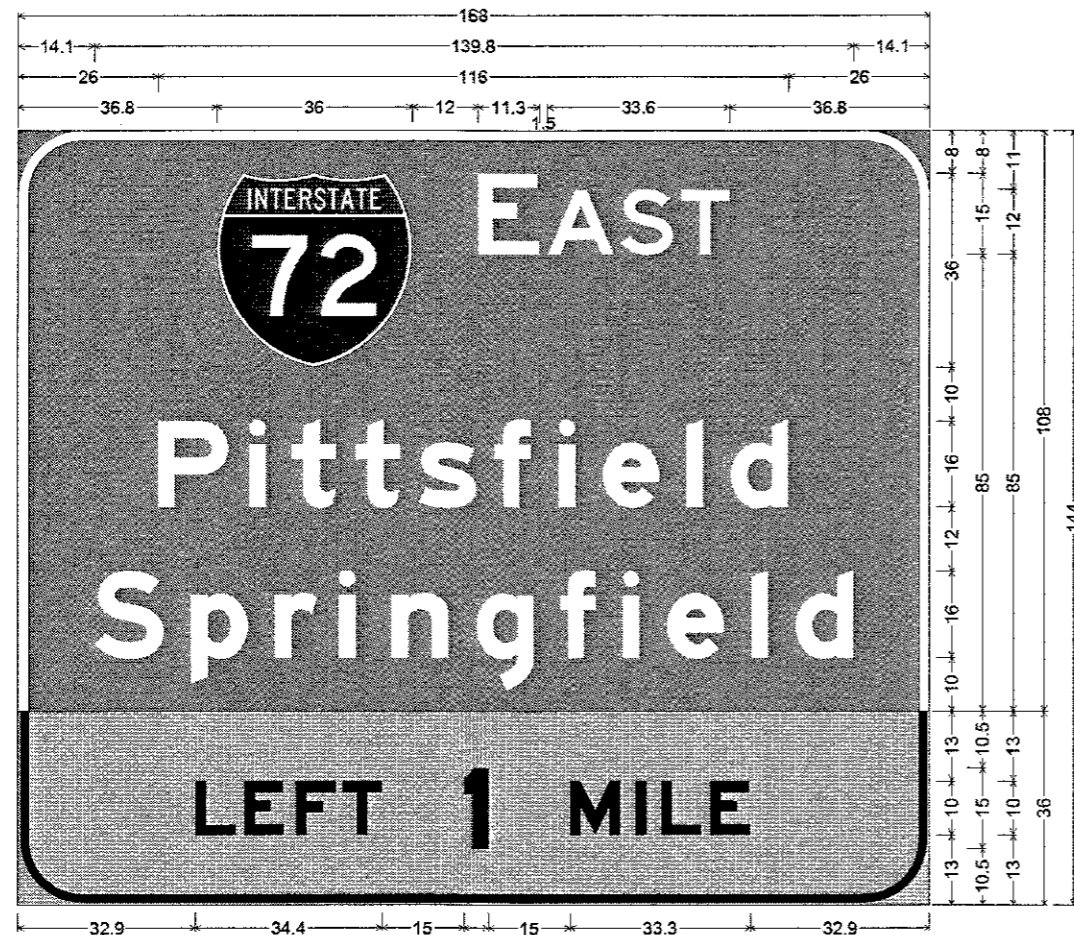


NOTES:
 The foundation dimensions shown in the Foundation Design Table are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown in the Foundation Data Table will be the result of site specific designs.
 If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.
 No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.
 Concrete shall be placed monolithically, without construction joints.
 Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.
 A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in "Drilled Shaft Concrete Foundation".

Truss Type	Post Base Sheet	Maximum Cantilever Length (ft)	Maximum Total Sign Area (sq ft)	Shaft Diameter (ft)	"B" Depth (ft)	Anchor Rods		Anchor Rod Circle Diameter (in)
						No.	Diameter (in)	
I-C-A	OSC-A-4	25	170	3.0	16.0	8	2	22
II-C-A	OSC-A-5	30	170	3.5	17.0	12	2	30
II-C-A	OSC-A-5	30	340	3.5	21.5	12	2	30
III-C-A	OSC-A-5	35	170	3.5	19.0	12	2	30
III-C-A	OSC-A-5	35	250	3.5	22.5	12	2	30
III-C-A	OSC-A-5	35	400	3.5	26.5	12	2	30
III-C-A	OSC-A-5	40	400	3.5	32.0	12	2	30

Structure Number	Station	Truss Type	Shaft Diameter	Elevation Top	Elevation Bottom	Qu	A	B	F	Class DS Concrete Cubic Yards
6C0841055R083.2	433+20	III-C-A	3.5'	606.17	581.67	1.28 TSF	2.5'	22'	24.5'	8.7

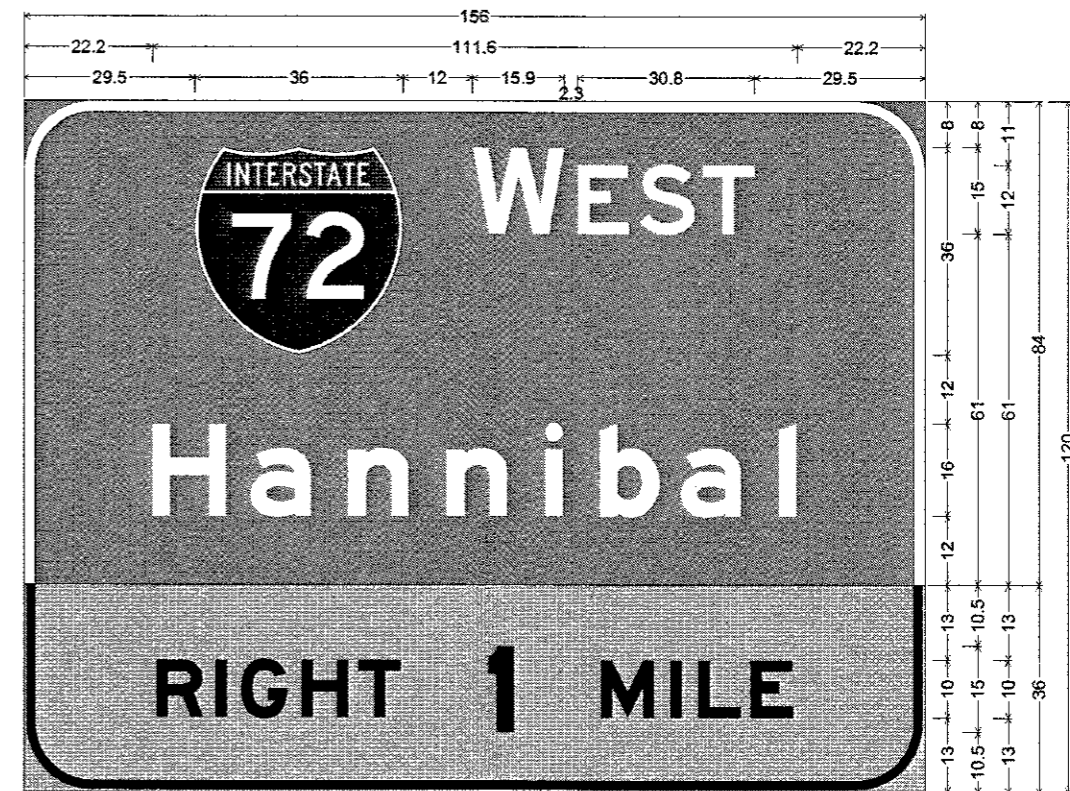
OSC-A-9 2-17-2017



12.0" Radius, 2.0" Border, White on Green;
 "EAST" E 2K; "Pittsfield" E Mod 2K; "Springfield" E Mod 2K;
 12.0" Radius, 1.5" Border, 0.5" Indent, Black on Yellow;
 "LEFT 1 MILE" E Mod 2K;

Table of distances between letter and object lefts.

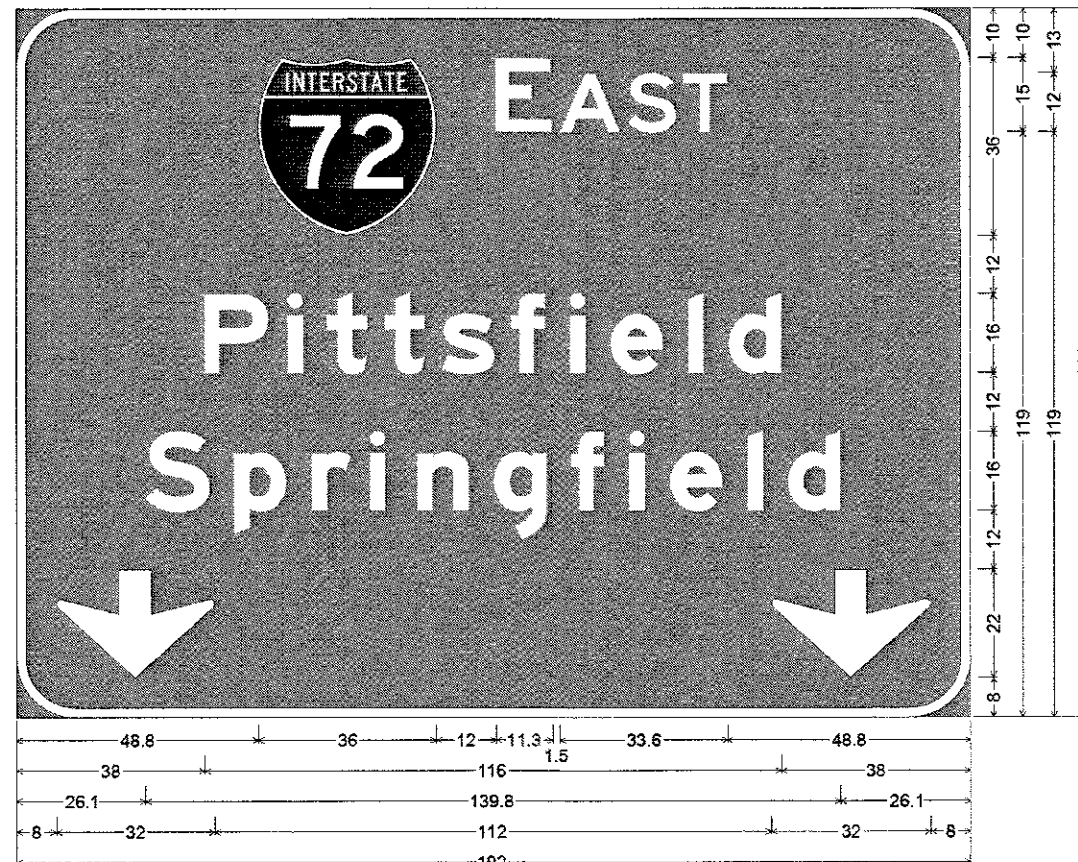
36.8	48.0	12.8	13.5	11.1	9.0	36.8						
P	i	t	t	s	f	i	e	i	d			
26.0	16.8	7.8	11.7	11.7	13.9	11.7	8.2	15.5	8.1	10.6	26.0	
S	p	r	i	n	g	f	i	e	i	d		
14.1	17.9	15.5	11.9	9.6	15.5	15.3	11.7	8.2	15.5	8.2	10.5	14.1
L	E	F	T	1	M	I	L	E				
32.9	9.0	9.5	8.5	22.4	19.5	12.1	4.8	9.0	7.4	32.9		



12.0" Radius, 2.0" Border, White on Green;
 "WEST" E 2K; "Hannibal" E Mod 2K;
 12.0" Radius, 1.5" Border, 0.5" Indent, Black on Yellow;
 "RIGHT 1 MILE" E Mod 2K;

Table of distances between letter and object lefts.

29.5	48.0	18.2	10.7	11.1	9.0	29.5					
H	a	n	n	i	b	a	i				
22.2	16.9	17.0	16.9	17.0	9.6	14.1	16.9	3.2	22.2		
R	I	G	H	T	1	M	I	L	E		
22.9	10.2	4.4	10.5	9.9	22.4	19.5	12.1	4.8	9.0	7.4	22.9



12.0" Radius, 2.0" Border, White on Green;
 "EAST" E 2K; "Pittsfield" E Mod 2K; "Springfield" E Mod 2K; Down Arrow 22.0" 270"; Down Arrow 22.0" 270";
 Table of distances between letter and object lefts.

	E	A	S	T								
48.8	48.0	12.8	13.5	11.1	9.0	48.8						
38.0	P	i	t	t	s	f	i	e	d			
	16.8	7.8	11.7	11.7	13.9	11.7	8.2	15.5	8.1	10.6	38.0	
26.1	S	p	r	i	n	g	f	i	e	i	d	
	17.9	15.5	11.9	9.6	15.5	15.3	11.7	8.2	15.5	8.2	10.5	26.1
8.0	↓	↓										
	144.0	32.0	8.0									



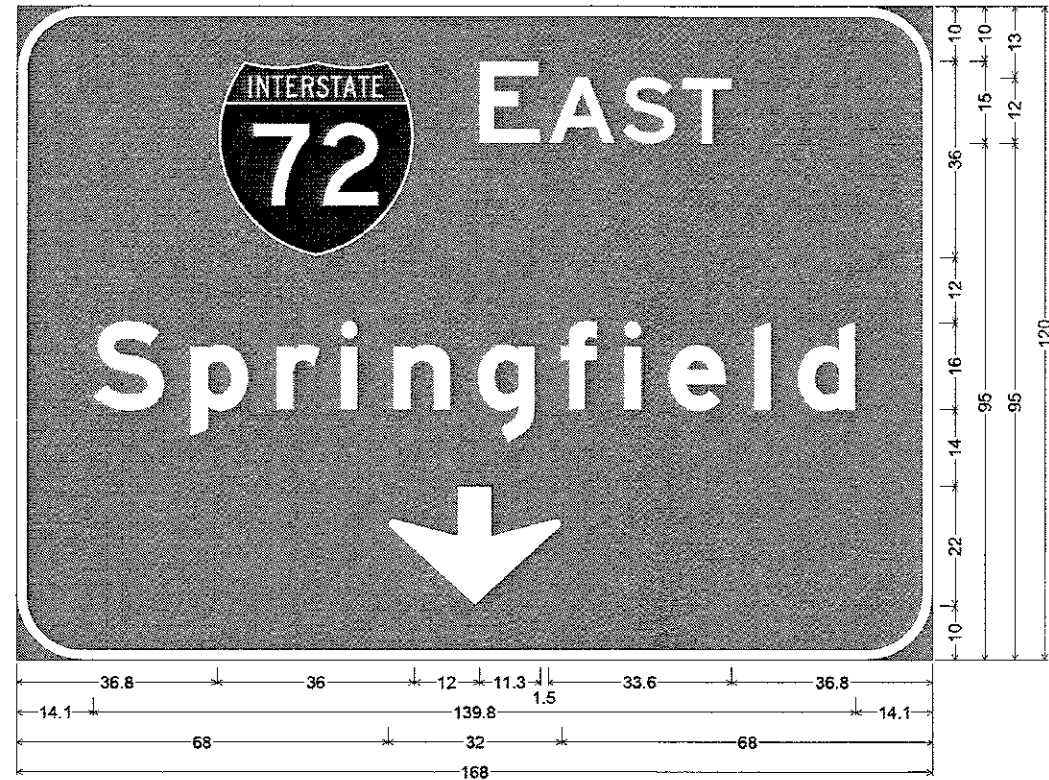
12.0" Radius, 2.0" Border, White on Green;
 "EXIT" E Mod 2K 120% spacing; "0" E Mod 2K;
 12.0" Radius, 2.0" Border, White on Green;
 "WEST" E 2K; "Hannibal" E Mod 2K; Arrow 160 - 35.0" 45";
 Table of distances between letter and object lefts.

	E	X	I	T	0				
63.5	9.1	11.2	4.2	22.4	12.6	15.0			
20.5	W	E	S	T					
	48.0	18.2	10.7	11.1	9.0	20.5			
13.2	H	a	n	n	i	b	a	i	
	16.9	17.0	16.9	17.0	9.6	14.1	16.9	3.2	13.2
55.2	↑								
	27.6	55.2							



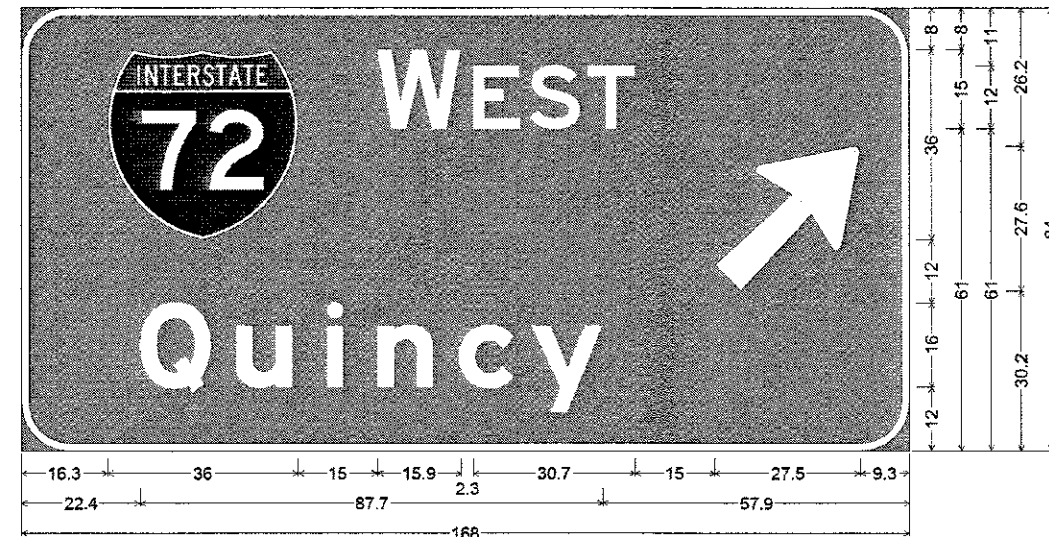
12.0" Radius, 2.0" Border, White on Green;
 "SOUTH" E 2K; "Alton" E Mod 2K; Down Arrow 22.0" 270°;
 Table of distances between letter and object lefts.

19.6	54.0	14.4	12.9	11.7	11.1	9.7	16.6
43.4	20.0	7.8	12.0	15.9	10.5	40.4	
60.5	32.0	57.5					



12.0" Radius, 2.0" Border, White on Green;
 "EAST" E 2K; "Springfield" E Mod 2K; Down Arrow 22.0" 270°;
 Table of distances between letter and object lefts.

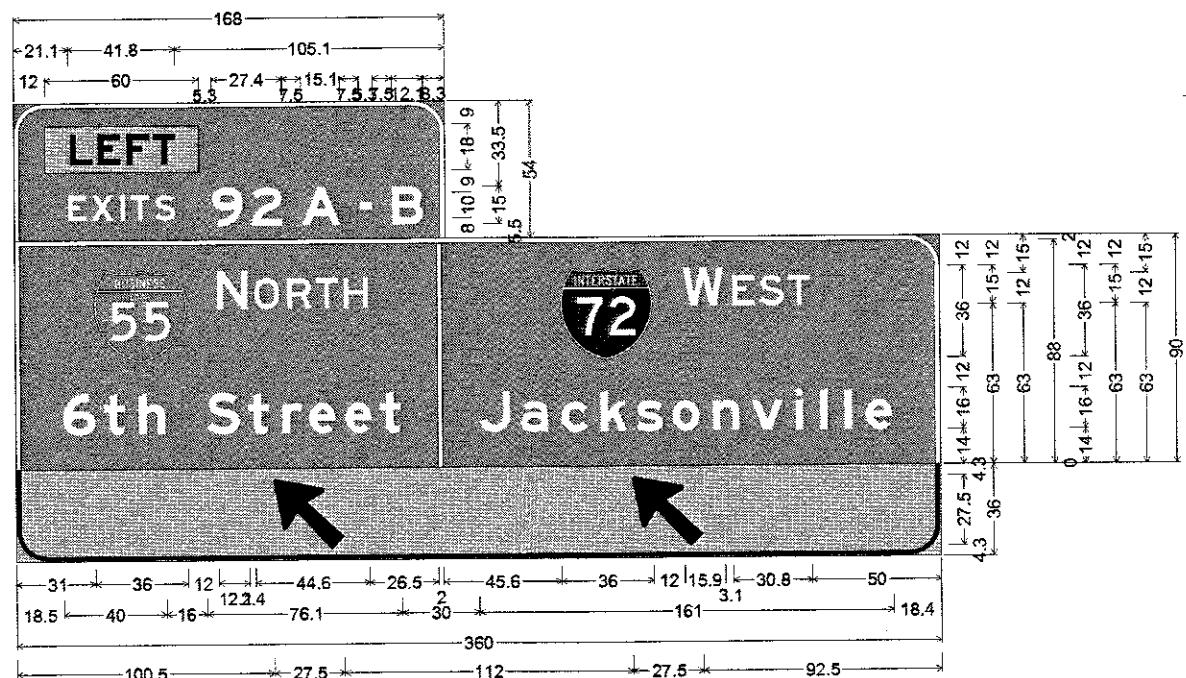
36.8	48.0	12.8	13.5	11.1	9.0	36.8						
14.1	17.9	15.5	11.9	9.6	15.5	15.3	11.7	8.2	15.5	8.2	10.5	14.1
68.0	32.0	68.0										



9.0" Radius, 1.5" Border, White on Green;
 "WEST" E 2K; "Quincy" E Mod 2K; Arrow 160 - 35.0" 45°;
 Table of distances between letter and object lefts.

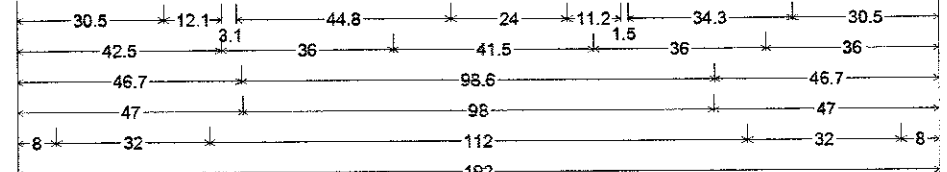
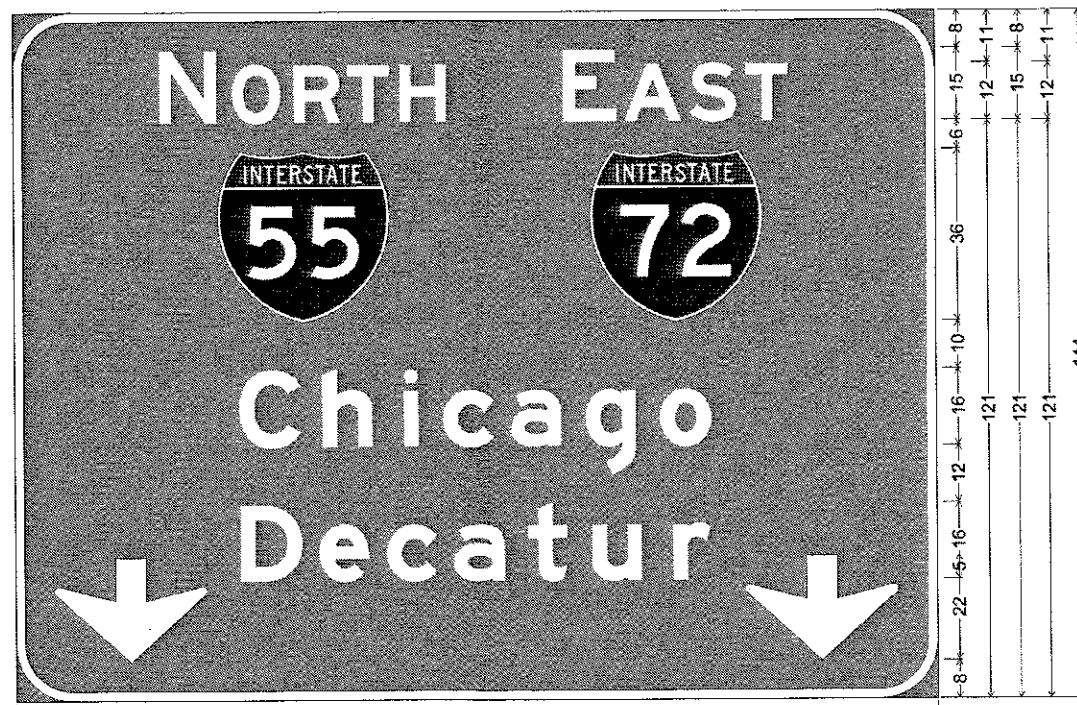
16.3	51.0	18.2	10.7	11.0	24.0	27.5	9.3
22.4	18.2	17.0	9.6	15.5	13.8	13.6	57.9

FILE NAME =	USER NAME = audlegm	DESIGNED =	REVISED =	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION #3 SIGN DETAILS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D:\OPERATIONS\Bridges\Bridgplans\CAD\4665 - sign trusses 2018\plansheet.dgn	DRAWN =	REVISED =	VAR. D6 OV SIN STR REP 18-27			VAR.	27	20		
PLOT SCALE = 100.0000 / 1 in.	CHECKED =	REVISED =	CONTRACT NO. 46465							
Default	PLOT DATE = 8/29/2017	DATE =	REVISED =			ILLINOIS FED. AID PROJECT				
SCALE:		SHEET OF SHEETS		STA.	TO STA.					



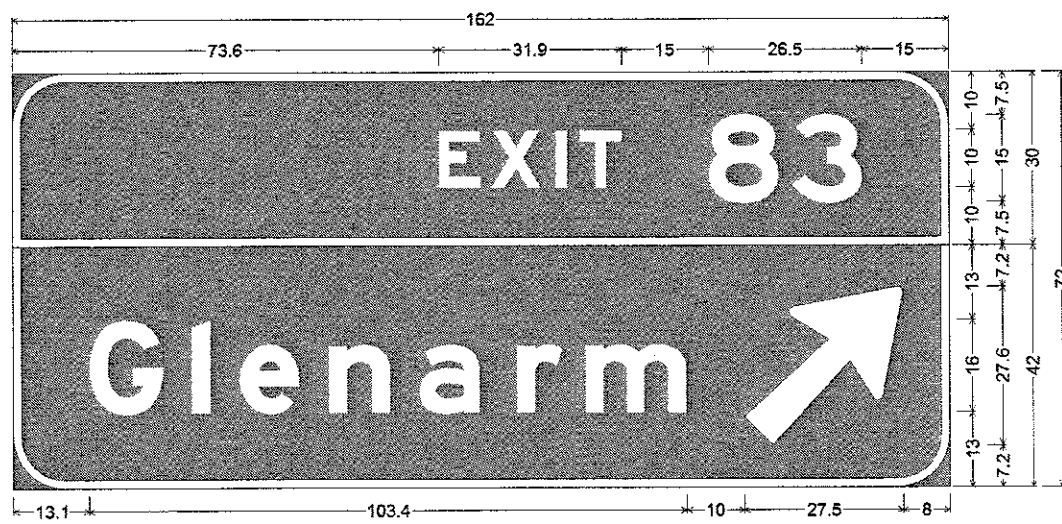
12.0" Radius, 2.0" Border, White on Green;
 Rectangle Yellow;
 "EXITS" E Mod 2K 120% spacing; "92 A - B" E Mod 2K;
 12.0" Radius, 2.0" Border, White on Green;
 "N ORTH" E 2K; "6th Street" E Mod 2K; "W EST" E 2K; "Jacksonville" E Mod 2K;
 12.0" Radius, 1.5" Border, 0.5" Indent, Black on Yellow;
 Arrow 160 - 35.0" 135"; Arrow 160 - 35.0" 135";
 Table of widths and spaces.

12.0	60.0	5.3	9	12.0	3.3	2	7.5	A	15.3	7.4	5.3	7.5	B	12.1	200.3							
E	X	I	T	S																		
21.1	7.4	1.8	8.6	2.5	2.0	2.1	7.5	1.8	8.1	297.1												
31.0	36.0	12.0	N	12.1	2.4	O	10.0	R	9.6	1.4	T	9.0	2.0	H	9.8	26.5	2.0	45.6	36.0	12.0	15.9	
	E	S	T																			
	3.1	9.0	1.8	9.6	1.4	9.0	50.0															
18.5	e	t	h	s	t	r	e	e	t													
	12.9	3.0	8.4	5.1	10.5	16.0	13.0	3.3	8.3	5.0	8.0	2.5	10.5	3.5	10.6	3.1	8.4					
	J	a	c	k	s	o	n	v	i	e												
	30.0	12.1	4.0	10.6	5.0	10.5	5.0	10.5	4.6	12.4	4.6	3.3	6.4	3.1	6.5	3.1	5.0	10.5	18.5			
100.5	27.5	112.0	27.5	92.5																		



12.0" Radius, 2.0" Border, White on Green;
 "N" E 2K "ORTH" E Mod 2K; "E" E 2K "AST" E Mod 2K; "Chicago" E Mod 2K; "Decatur" E Mod 2K;
 Down Arrow 22.0" 270"; Down Arrow 22.0" 270";
 Table of letter and object lefts.

N	O	R	T	H	E	A	S	T
30.5	45.7	58.7	69.7	80.8	114.5	127.2	141.1	152.7
55	72							
42.5	120.0							
C	h	i	c	a	g	o		
46.7	64.2	81.1	89.3	103.4	118.9	134.4		
D	e	c	a	t	u	r		
47.0	63.3	77.4	91.4	106.6	120.1	137.0		
8.0	152.0							



9.0" Radius, 1.5" Border, White on Green;
 "EXIT" E Mod 2K 120% spacing; " 83" E Mod 2K;
 9.0" Radius, 1.5" Border, White on Green;
 "Glenarm" E Mod 2K; Arrow 160 - 35.0" 45";
 Table of distances between letter and object lefts.

	E	X	I	T	8	3	
73.6	9.1	11.2	4.2	22.4	14.4	12.1	15.0
	G	i	e	n	a	r	m
13.1	17.8	8.1	15.6	15.5	16.9	11.9	27.6
							27.5
							8.0

FILE NAME =	USER NAME = dudleybm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION #5 SIGN DETAILS				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C:\OPERATIONS\Bridges\Bridgplans.CAD\465 - sign trusses 2018\plansheet.dgn	PLOT SCALE = 100.0000' / 1" =	DRAWN -	REVISED -						VAR.	06 OV SIN STR REP 18-27	VAR.	27	22
Default	PLOT DATE = 6/29/2017	CHECKED -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.				CONTRACT NO. 46465				
		DATE -	REVISED -		ILLINOIS FED. AID PROJECT								



Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 1
Date 6/15/17

ROUTE I-172 DESCRIPTION Overhead Sign I-172 SBL LOGGED BY M. Tappan
SECTION D-6 OVD SIN STR LOCATION NE 1/4, SEC. 34, TWP. 3S, RNG. 8W, 4 PM
COUNTY Adams DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO.	STATION	BORING NO.	STATION	OFFSET	GROUND SURFACE ELEV.	D	B	U	M	SURFACE WATER ELEV.	STREAM BED ELEV.	GROUNDWATER ELEV.:	▼ FIRST ENCOUNTER	▼ UPON COMPLETION	▼ AFTER 4 D. HRS.	D	B	U	M
6S001172L001.4		1 W. Shoulder	54+82	87.0 ft LT	470.3 ft	(ft)	/6"	(tsf)	(%)	N/A ft	N/A ft					(ft)	/6"	(tsf)	(%)
Gray Moist SILTY CLAY LOAM (Fill) (cobbles 0-2') seated auger past first sample interval										449.80									
Gray Fine to Medium SAND																			
Washed																			
Lt Brown Fine to Medium SAND FREE WATER																			
Lt Brown and Gray Moist SILTY CLAY to CLAY																			
Boring Complete * Brown Cobbles & Mixed Gravel from 0-2' Drilled Very Hard																			
Dk Gray Moist CLAY w/ slickensides																			
Lt Blue Gray Clay																			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

File Name: S:\SOILSIGINT\FILES\001 ADAMS\MAST\ARMSH172 OVERHEAD SIGN\6S001172L001.4.GPJ Data Template D6TEMP.LT.GDT Data Printed 6/23/17
Latitude 36.4817, Longitude 91.1846, Datum NAD83, Job Number C-60-068-1B



Illinois Department of Transportation
Division of Highways
District 5

SOIL BORING LOG

Page 1 of 1
Date 6/16/17

ROUTE I-172 DESCRIPTION Overhead Sign I-172 SBL LOGGED BY M. Tappan
SECTION D-6 OVD SIN STR LOCATION NE 1/4, SEC. 34, TWP. 3S, RNG. 8W, 4 PM
COUNTY Adams DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO.	STATION	BORING NO.	STATION	OFFSET	GROUND SURFACE ELEV.	D	B	U	M	SURFACE WATER ELEV.	STREAM BED ELEV.	GROUNDWATER ELEV.:	▼ FIRST ENCOUNTER	▼ UPON COMPLETION	▼ AFTER 4 D. HRS.	D	B	U	M
6S001172L001.4		2 Median	55+22	5.5 ft LT CL	472.5 ft	(ft)	/6"	(tsf)	(%)	N/A ft	N/A ft					(ft)	/6"	(tsf)	(%)
Brown Coarse GRAVEL & COBBLE (FILL) Auger Refusal - Moved Boring 10' North																			
V. Dk Gray V. Moist CLAY (continued)																			
Lt Olive Brown and Blue Gray Moist CLAY																			
Gray Fine to Medium SAND																			
Lt Brown and Gray Wet SILT LOAM w/ some Organics																			
Washed																			
V. Dk Gray V. Moist CLAY																			
Boring Complete																			
Dk Gray V. Moist SILTY CLAY to CLAY FREE WATER																			
V. Dk Gray Moist CLAY w/ Slickensides																			
V. Dk Gray Moist CLAY w/ Slickensides																			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

File Name: S:\SOILSIGINT\FILES\001 ADAMS\MAST\ARMSH172 OVERHEAD SIGN\6S001172L001.4.GPJ Data Template D6TEMP.LT.GDT Data Printed 6/23/17
Latitude 36.4817, Longitude 91.1846, Datum NAD83, Job Number C-60-068-1B

FILE NAME =	USER NAME = dudlejbn	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION #1 BORING LOGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D:\OPERATIONS\Bridges\Brdgeplans\CAD\465 - sign trusses 2018\plansheet.dgn	DRAWN -	REVISED -	VAR. D6 OV SIN STR REP 18-27			VAR.	27	23		
PLOT SCALE = 100.0000 / 1 in.	CHECKED -	REVISED -	CONTRACT NO. 46465							
Default	DATE -	REVISED -	SCALE:			SHEET	OF	SHEETS	STA.	TO



Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 1

Date 6/19/17

ROUTE I-172 DESCRIPTION Sign Structure over I-172 SBL LOGGED BY M. Tappan

SECTION D-6 OVD SIN REPL LOCATION SW 1/4, SEC. 35, TWP. 3S, RNG. 8W, 4 PM

COUNTY Adams DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO. 6S00172L000.3
Station _____
BORING NO. 1 W. Shoulder
Station 1004+29
Offset 119.0ft RT
Ground Surface Elev. 458.8 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft
Groundwater Elev.:
First Encounter 452.8 ft
Upon Completion Washed ft
After Hrs. _____ ft

DEPTH (ft)	SOIL TYPE	UCS (tsf)	MOIST (%)	DEPTH (ft)	SOIL TYPE	UCS (tsf)	MOIST (%)
0	Brown and Gray Moist CLAY LOAM			0	Gray Dirty Fine to Medium SAND (continued)		
1		.60	18	7			
2		B		12			
455.80							
0	Gray and Light Reddish Brown Moist CLAY LOAM to SANDY CLAY LOAM			9	Tan Coarse SAND Washed		
1		.40	19	9			
2		B		8			
463.30							
0	Gray Dirty Fine to Medium SAND						
1							
1							
1	Gray Medium to Coarse SAND			4			
1				2	Tan Coarse SAND with some Pea Gravel		
-10				4	Washed	428.80	-30
					Boring Completed		
3	Washed						
3							
4							
1	Gray Coarse SAND Washed						
2							
-15				-35			
1	Light Brown Medium to Coarse SAND Washed						
2							
4							
3	Light Brown Medium to Coarse SAND with some Pea Gravel Washed						
9							
-20				-40			

File Name: S:\SOIL\SIGN\FILES\001_ADMASMAST_ABN15172_OVERHEAD_SIGN_6S00172L000.3.GPJ Data Template: D:\TEMPLATE\DOT Date Printed: 6/23/17
Latitude: 38.4522507261 Longitude: 91.1819 Datum: NAD83 Job Number: C-60-026-18

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 1

Date 6/19/17

ROUTE I-172 DESCRIPTION Sign Structure over I-172 SBL LOGGED BY M. Tappan

SECTION D-6 OVD SIN REPL LOCATION SW 1/4, SEC. 35, TWP. 3S, RNG. 8W, 4 PM

COUNTY Adams DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO. 6S00172L000.3
Station _____
BORING NO. 2 Median
Station 1004+71
Offset 5.0ft RT
Ground Surface Elev. 463.6 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft
Groundwater Elev.:
First Encounter 455.1 ft
Upon Completion Washed ft
After Hrs. _____ ft

DEPTH (ft)	SOIL TYPE	UCS (tsf)	MOIST (%)	DEPTH (ft)	SOIL TYPE	UCS (tsf)	MOIST (%)
	Dark Gray Moist SILTY CLAY (Fill)				Brown Dirty Medium SAND (continued)		
				5			
				4	Tan Medium SAND Washed		
				6			
1				2	Washed		
3		2.8	14	3			
5		B		3			
467.60				-25			
0	Light Reddish Brown Moist CLAY LOAM to SANDY CLAY LOAM						
1		.80	17				
2		B					
3							
465.60							
0	Brown Dirty Medium SAND						
1				5	Tan Medium SAND with some Pea Gravel Washed		
1				10			
-10				10			
				433.60	Boring Completed		
0							
2							
3							
0	Light Brownish Gray Medium to Coarse SAND						
3							
-15				-35			
2	Washed						
5							
6							
3	Washed						
5							
-20				-40			

File Name: S:\SOIL\SIGN\FILES\001_ADMASMAST_ABN15172_OVERHEAD_SIGN_6S00172L000.3.GPJ Data Template: D:\TEMPLATE\DOT Date Printed: 6/23/17
Latitude: 38.4522507261 Longitude: 91.1819 Datum: NAD83 Job Number: C-60-026-18

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

FILE NAME =	USER NAME = dudleygm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION #2 BORING LOGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
D:\OPERATIONS\Bridges\Bridgplans.CAD	465 - sign trusses 2018\plansheet.dgn	DRAWN -	REVISED -			VAR. D6 OVD SIN STR REP 18-27	VAR.	VAR.	27	24	
Default	PLOT SCALE = 100.0000 / / in.	CHECKED -	REVISED -			SCALE: SHEET OF SHEETS STA. TO STA.		CONTRACT NO. 46465			
	PLOT DATE = 6/29/2017	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					



Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 1

Date 5/23/12

ROUTE US 67 DESCRIPTION Sign Truss over US 67 SBL LOGGED BY M. Tappan
SECTION D-6 OVD SIN LOCATION SW 1/4, SEC. 2, TWP. 14N, RNG. 11W, 4 PM
COUNTY Morgan DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO. 6S0691072L060RP Station _____
BORING NO. 1 Median Station 346+81 Offset 5.0ft LT
Ground Surface Elev. 615.8 ft (ft) /6" (tsf) (%)

Surface Water Elev. NA ft DEPTH (ft) BLOW COUNT (tsf) MOISTURE (%)
Stream Bed Elev. NA ft
Groundwater Elev.:
First Encounter 597.3 ft
Upon Completion 599.8 ft
After 24 Hrs. 613.8 ft

DEPTH (ft)	BLOW COUNT (tsf)	MOISTURE (%)	SOIL DESCRIPTION	DEPTH (ft)	BLOW COUNT (tsf)	MOISTURE (%)	SOIL DESCRIPTION
0			Brown Moist CLAY LOAM (Till)	0			Gray Moist CLAY (Till) (continued)
2				2			
3	2.2	18		9	5.3	15	
5	B			14	B		
			Gray and Brown Moist CLAY LOAM (Till)				Grayish Brown Moist CLAY (Till)
2				2			
6	2.7	14		7	5.4	15	
6	B			9	B		
				690.80	-25		Boring Completed
5							Sta. and Elev. Provided by Dist. 6 Surveys
19	6.4	8					
25	S-12						
5							
22	7.0	7					
27	S-10						
604.80							
			Gray Moist CLAY (Till)				
2							
5	3.6	20					
7	B						
2			Gray and Brown Moist CLAY (Till) with Slickensides				
6	4.2	18					
10	S-11						
2							
5	5.0	17					
10	B						
2							
10	5.3	15					
14	B						

File Name: S:\SOIL SIGINT FILES\0691072L060RP US 67 SBL.GPJ Date: Template: DISTEMP.LT.GDT Date: Printed: 6/23/12
Lab: 3541, 102N, Long: 35.50, 17, 883N, Data: NAT83, Job Number: C-61-028-18

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T266) BBS, from 137 (Rev. 8-99)

FILE NAME =	USER NAME = audleybm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION #3 BORING LOGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D:\OPERATIONS\Bridges\Bridgplans.CAD\465 - sign trusses 2018\plansheet.dgn	PLOT SCALE = 100.0000 / in.	DRAWN -	REVISED -			VAR.	D6 OV SIN STR REP !8-27	VAR.	27	25
Default	PLOT DATE = 6/29/2017	CHECKED -	REVISED -			SCALE: SHEET OF SHEETS STA. TO STA.		CONTRACT NO. 46465		
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				



SOIL BORING LOG

ROUTE I-55 NBL DESCRIPTION Sign Truss over I-55 NBL LOGGED BY M. Tappan
SECTION D-6 OVD SIN STR LOCATION SW 1/4, SEC. 10, TWP. 14N, RNG. 5W, 3 PM
COUNTY Sangamon DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO.	DEPT	BLOW	UCS	MOIST	Surface Water Elev.	DEPT	BLOW	UCS	MOIST
Station	H	S	Qu	T	ft	H	S	Qu	T
6S0841055R091.7					N/A				
1 E. Shoulder					N/A				
24+42									
56.0ft RT									
595.9 ft	(ft)	/ft	(tsf)	(%)		(ft)	/ft	(tsf)	(%)
Dark Gray Moist SILTY CLAY to CLAY					Light Gray and Tan SILTY CLAY (Till)				
	1				Very Weathered (continued)		0		
	4	3.1	23		Bluish Gray SILTY CLAY LOAM (Till)		5	1.0	21
	4	B			Weathered to Brown		5	B	
					Brown and Gray Weathered SILTY CLAY (Till)				
	1						3		
	2	1.3	30		Gray Moist Fissile SHALE		13	3.1	16
	2	B					26	S-7	
589.90									
Light Gray Moist SILT LOAM with Iron Oxide Staining							5		
	1	.70	28				65	4.7	9
	2	B			Boring Completed		35	S-7	
							1"		
	0								
	1	.20	29		Stations and Elevations Provided by Dist. 6 Surveys				
	1	B							
585.90									
Gray and Brown Moist SILTY CLAY									
	0								
	1	1.4	22						
	2	B							
582.90									
Light Gray Moist SILT LOAM with Iron Oxide Staining									
	0								
	0	.30	26						
	2	B							
579.90									
Light Gray and Tan SILTY CLAY (Till)									
	0								
	2	.90	25						
	2	B							
	0								
	2	.80	25						
	2	B							
	2								
	2	B							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

ROUTE I-55 NBL DESCRIPTION Sign Truss over I-55 NBL LOGGED BY M. Tappan
SECTION D-6 OVD SIN STR LOCATION SW 1/4, SEC. 10, TWP. 14N, RNG. 5W, 3 PM
COUNTY Sangamon DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO.	DEPT	BLOW	UCS	MOIST	Surface Water Elev.	DEPT	BLOW	UCS	MOIST
Station	H	S	Qu	T	ft	H	S	Qu	T
6S0841055R091.7					N/A				
2 Median					N/A				
24+10									
44.0ft LT									
593.2 ft	(ft)	/ft	(tsf)	(%)		(ft)	/ft	(tsf)	(%)
Dark Gray to Brown and Gray Moist SILTY CLAY					Olive Brown Moist Very Weathered Silty SHALE (continued)				
	0				Gray Weathered Fissile Silty SHALE		3		
	3	1.6	27				4	3.3	17
	3	S-15					11	S-15	
590.20									
Tan and Light Gray Moist SILT to SILT LOAM									
	1						7		
	2	1.2	26				35	10.0	13
	2	P					63	+	
588.20									
Boring Completed									
	0								
	2	1.4	26						
	3	B							
585.20									
Brown and Gray Wet SILTY CLAY LOAM									
	0								
	0	0	24						
	1	SLUMP							
580.20									
Gray and Brown Weathered Wet SILTY CLAY (Till)									
	0								
	0	.20	25						
	1	B							
580.20									
Gray and Brown Weathered Wet SILTY CLAY (Till)									
	0								
	2	.60	27						
	2	B							
575.70									
Light Bluish Gray									
	0								
	1	1.6	22						
	3	B							
575.70									
Olive Brown Moist Very Weathered Silty SHALE									
	1								
	10	1.5	19						
	17	S-7							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

FILE NAME =	USER NAME = dudleybn	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION #4 BORING LOGS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
D:\OPERATIONS\Bridges\B-ridge\plans\CAD\465 - sign trusses 2018\plansheet.dgn	DRAWN -	REVISED -	VAR.			D6 OV SIN STR REF 18-27	VAR.	27	26	CONTRACT NO. 46465	
PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED -	ILLINOIS FED. AID PROJECT								
PLOT DATE = 5/29/2017	DATE -	REVISED -	SCALE:			SHEET	OF	SHEETS	STA.	TO	STA.



Illinois Department
of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 1

Date 4/7/17

ROUTE I-55 NBL DESCRIPTION I-55 NBL Overhead Sign S. of Glenarm LOGGED BY S. Jones
SECTION D-6 OVD Sin LOCATION SW 1/4, SEC. 34, TWP. 14N, RNG. 5W, 3 PM
COUNTY Sangamon DRILLING METHOD HSA HAMMER TYPE 140#Auto

STRUCT. NO. 6C0841055R083.2
Station _____
BORING NO. 1 E. Shoulder NBL
Station 433+31
Offset 97.0R LT
Ground Surface Elev. 605.1 ft (ft) /6" (tsf) (%)

DEPTH (ft)	SOIL DESCRIPTION	U	M	MOISTURE (%)	DEPTH (ft)	U	M	MOISTURE (%)
584.10	Gray Moist CLAY LOAM (TIII) (continued)				5	B		
581.10	Fine to Medium Gray SAND Sand Blew into Augers +/- 7 ft				1			
581.60	Gray Medium SANDY GRAVEL Washed				5			
579.60	Boring Completed				9			
597.10	Broken Sample				16			
597.10	Light Gray Moist SILT LOAM to SILT with Light Iron Oxide Staining							
591.60	Gray Moist SILT LOAM							
588.10	Dark Gray Moist SILTY CLAY							
586.10	Gray Wet LOAM to CLAY LOAM							
586.10	Gray Moist CLAY LOAM (TIII)							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

File Name: S:\SOS\SIGINT FILES\084 SANGAMON\MISSO. MAST ARMS. SIGN TRUSS BORINGS\05 NBL OVERHEAD SIGN NEAR GLENARM.GPJ Data Template D:\TEMP\1.GDT Date Printed 6/23/17
Latitude 38.3944 98R Longitude 89.3817 2109 Datum NAD83 Job Number C-66428-18

FILE NAME *	USER NAME * dudleybm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION #5 BORING LOGS				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
D:\OPERATIONS\Bridges\Bridgplans.CAD\465 - sign trusses 2018\plansheet.dgn		DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	VAR. D6 OV SIN STR REP 18-27	VAR.	27	27
Default		CHECKED -	REVISED -		CONTRACT NO. 46465									
		DATE	REVISED		ILLINOIS FED. AID PROJECT									