

1-20-2012 LETTING ITEM 060

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED
FEDERAL AID HIGHWAY

VARIOUS ROUTES
D-6OVD SIN STR REPL 12-23
SANGAMON COUNTY
C-60-023-12

INDEX OF SHEETS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED October 19 20 11
PASSED

Justin Mann
ENGINEER OF OPERATIONS

December 9 20 11

Scott E. Stitt, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

APPROVED December 9 20 11

William R. Fienler
DIRECTOR DIVISION OF HIGHWAYS

JOINT UTILITY LOCATING INFORMATION FOR
EXCAVATIONS PHONE: 800-892-0123

CONTRACT NO. 46196

*33+1=34

FILE NAME *	USER NAME *	DESIGNED -	REVISOR -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SHEET NO. ___ OF ___ SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		CHECKED -	REVISOR -			VARI	D-6 OVD SIN STR REPL 12-23	SANGAMON	33	1	
		DRAWN -	REVISOR -			CONTRACT NO. 46196					
		CHECKED -	REVISOR -			ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Summary of Quantities

CODE NUMBER	PAY ITEM	UNIT	0040 100% STATE TOTAL QUANTITY	Sangamon
* 63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	200.00	200.00
63200310	GUARDRAIL REMOVAL	FOOT	50.00	50.00
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1.00	1.00
* 63302000	REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 2	EACH	4.00	4.00
63304395	TRAFFIC BARRIER TERMINAL REMOVAL, TYPE 2	EACH	1.00	1.00
67100100	MOBILIZATION	LSUM	1.00	1.00
72400330	REMOVE SIGN PANEL - TYPE 3	SQ FT	1,537.50	1,537.50
73300100	OVERHEAD SIGN STRUCTURE - SPAN, TYPE I-A (4'-0" X 4'-6")	FOOT	65.00	65.00
73300200	OVERHEAD SIGN STRUCTURE - SPAN, TYPE II-A (4'-6" X 5'-3")	FOOT	116.00	116.00
73302170	OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE II-C-A (36" X 5'-6")	FOOT	30.00	30.00
73302210	OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE III-C-A (36" X 7'-0")	FOOT	105.00	105.00
73400200	DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	56.2	56.2
73600100	REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	2.00	2.00
73600200	REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	4.00	4.00
73700300	REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	8.00	8.00
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	14.00	14.00
X7330104	REMOVE AND REINSTALL WALKWAY	FOOT	169.75	169.75
X7330111	REMOVE SAFETY CHAIN	EACH	12.00	12.00
X7330112	SAFETY CHAIN	EACH	12.00	12.00
X7330066	REPAIR HANDRAIL LOCKING PIN CONNECTION	EACH	37.00	37.00
X0324181	DISCONNECT SIGN LIGHTING AND REMOVE WIRING TO NEAREST SPLICE	EACH	6.00	6.00
X0326836	RELOCATE & REINSTALL VIDEO CAMERA & EQUIPMENT	EACH	1.00	1.00
* X6330103	REMOVE AND RE-ERECT TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1.00	1.00

*SPECIALTY ITEM

FILE NAME =	USER NAME = kelleyb	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S:\Sign Truss Plan Details\46196\46196.dgn	Repl.dgn	DRAWN -	REVISED -		SCALE: _____	SHEET NO. _____ OF _____ SHEETS	STA. _____ TO STA. _____	VAR	0-6.0VDSINSIRBEPL12-23	SANGAMON	33	2
PLOT SCALE = 0.1856 Ft / in.	CHECKED -	REVISED -	CONTRACT NO. 46196					ILLINOIS FED. AID PROJECT				
PLOT DATE = Oct-19-2011 08:16:32AM	DATE -	REVISED -										

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Summary of Quantities

CODE NUMBER	PAY ITEM	UNIT	0040 100% STATE TOTAL QUANTITY	Sangamon
X7010216	TRAFFIC CONTROL & PROTECTION (SPECIAL)	LSUM	1.00	1.00
X7200095	FURNISH AND ERECT SIGN PANEL	SQ FT	1,452.75	1452.75
Z0013798	CONSTRUCTION LAYOUT	L SUM	1.00	1.00
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1.00	1.00
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	20	20
* 51604000	DRILLED SHAFT IN ROCK	CU YD	13.9	13.9

*SPECIALTY ITEM

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
Schedule of Quantities

Location No.: 1		State I.D. No.: 6S084I055R099.4					
County:	SANGAMON	Route:	I-55	M.P.:	99.4	Direction:	NB
Description of Work	Unit	Quantity					
REMOVE OVERHEAD SIGN STRUCTURE-SPAN	EACH	1.00					
OVERHEAD SIGN STRUCTURE-SPAN, TYPE I-A	FOOT	65.00					
REMOVE SIGN PANEL - TYPE 3	SQ FT	344.50					
REMOVE & REINSTALL WALKWAY	FOOT	37.00					
REPAIR HANDRAIL LOCKING PIN CONNECTION	EACH	8.00					
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	13.40					
REMOVE CONCRETE FOUNDATION-OVERHEAD	EACH	2.00					
REMOVE SAFETY CHAIN	EACH	2.00					
STEEL PLATE BEAM GUARD RAIL, TYPE A 6 FT POSTS	FOOT	25.00					
REMOVE REERECT TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL, (TANG	EACH	1.00					
DISCONNECT SIGN LIGHTING AND REMOVE WIRING TO NEARSET SPLICE	EACH	1.00					
CONSTRUCTION LAYOUT	L SUM	0.17					
NIGHTTIME WORK ZONE LIGHTING	L SUM	0.17					
GUARDRAIL MARKERS, TYPE A	EACH	2.00					
FURNISH & ERECT SIGN PANEL	SQ FT	339.00					
SAFETY CHAIN	EACH	2.00					
DRILLED SHAFT IN ROCK	CU YD	5.40					
This structure is being completely replaced.							

Location No.: 2		State I.D. No.: 6S084I072L104.2					
County:	SANGAMON	Route:	I-72	M.P.:	104.2	Direction:	WB
Description of Work	Unit	Quantity					
REMOVE OVERHEAD SIGN STRUCTURE-SPAN	EACH	1.00					
OVERHEAD SIGN STRUCTURE-SPAN, TYPE II-A	FOOT	116.00					
REMOVE SIGN PANEL - TYPE 3	SQ FT	608.75					
REMOVE & REINSTALL WALKWAY	FOOT	56.75					
REPAIR HANDRAIL LOCKING PIN CONNECTION	EACH	12.00					
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	10.40					
REMOVE CONCRETE FOUNDATION-OVERHEAD	EACH	2.00					
REMOVE SAFETY CHAIN	EACH	2.00					
STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FT POSTS	FOOT	25.00					
REMOVE REERECT TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1.00					
DISCONNECT SIGN LIGHTING AND REMOVE WIRING TO NEAREST SPLICE	EACH	1.00					
CONSTRUCTION LAYOUT	L SUM	0.17					
NIGHTTIME WORK ZONE LIGHTING	L SUM	0.17					
GUARDRAIL MARKERS, TYPE A	EACH	2.00					
FURNISH & ERECT SIGN PANEL	SQ FT	512.75					
SAFETY CHAIN	EACH	2.00					
DRILLED SHAFT IN ROCK	CU YD	8.50					
This structure is being completely replaced.							
REMOVE AND REUSE HOSPITAL SIGN - INCIDENTAL							

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
Schedule of Quantities

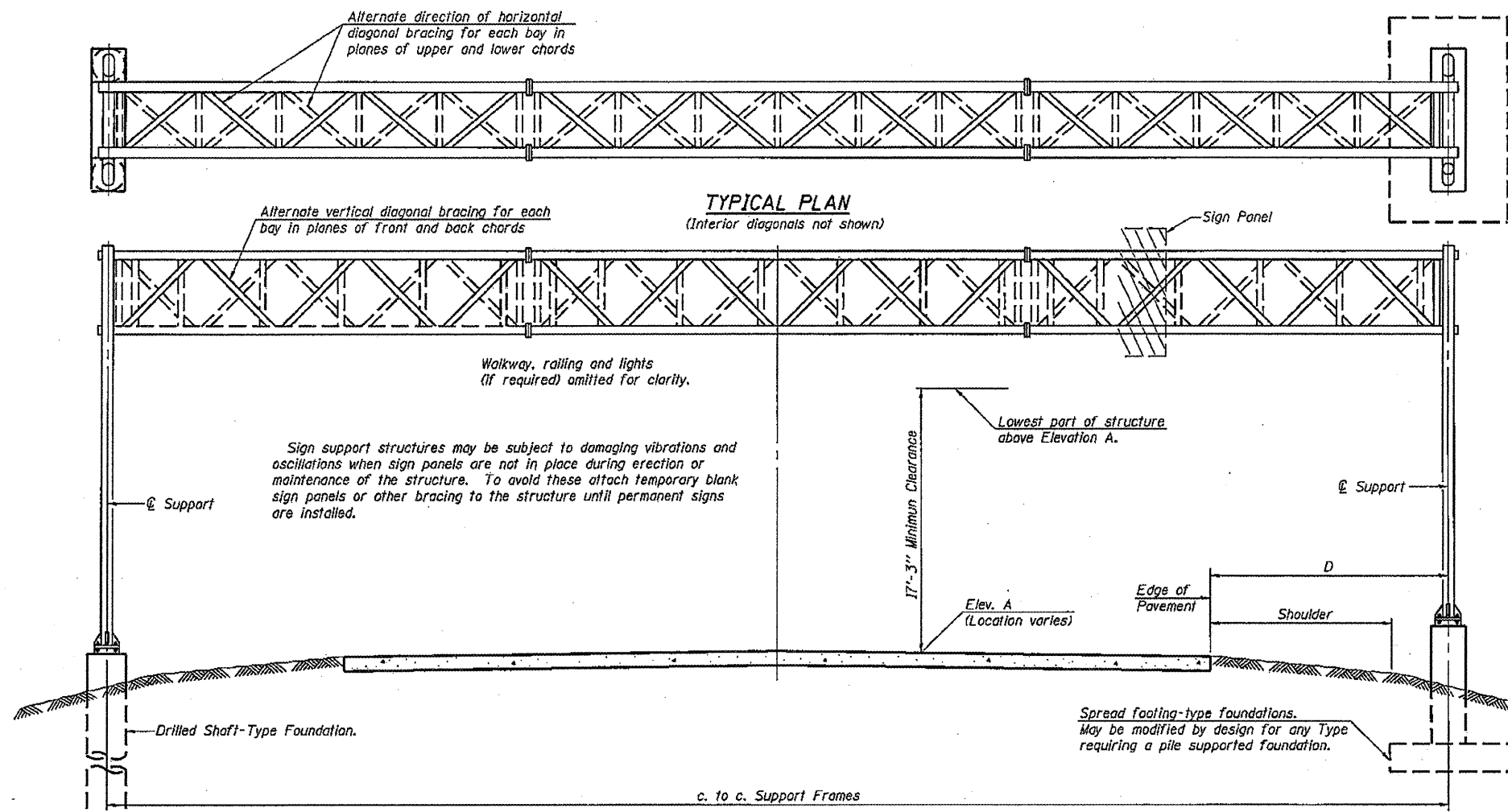
Location No.: 3		State I.D. No.: 6C084I055L103.6	
County:	SANGAMON	Route:	I-55
		M.P.:	103.6
		Direction:	SB
Description of Work	Unit	Quantity	
REMOVE OVERHEAD SIGN STRUCTURE-CANTILEVER	EACH	1.00	
OVERHEAD SIGN STRUCTURE-CANTILEVER, TYPE II-C-A	FOOT	30.00	
REMOVE SIGN PANEL - TYPE 3	SQ FT	84.50	
REMOVE & REINSTALL WALKWAY	FOOT	17.00	
REPAIR HANDRAIL LOCKING PIN CONNECTION	EACH	4.00	
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	7.30	
REMOVE CONCRETE FOUNDATION-OVERHEAD	EACH	1.00	
REMOVE SAFETY CHAIN	EACH	2.00	
STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FT POSTS	FOOT	75.00	
FURNISH AND ERECT SIGN PANEL	SQ FT	78.00	
DISCONNECT SIGN LIGHTING AND REMOVE WIRING TO NEAREST SPLICE	EACH	1.00	
CONSTRUCTION LAYOUT	L SUM	0.17	
NIGHTTIME WORK ZONE LIGHTING	L SUM	0.17	
GUARDRAIL MARKERS, TYPE A	EACH	4.00	
GUARD RAIL REMOVAL	FOOT	50.00	
TRAFFIC BARRIER TERMINAL REMOVAL, TYPE 2	EACH	1.00	
TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1.00	
SAFETY CHAIN	EACH	2.00	
This structure is being completely replaced.			

Location No.: 4		State I.D. No.: 6C084I055L099.6	
County:	SANGAMON	Route:	I-55
		M.P.:	99.6
		Direction:	SB
Description of Work	Unit	Quantity	
REMOVE OVERHEAD SIGN STRUCTURE-CANTILEVER	EACH	1.00	
OVERHEAD SIGN STRUCTURE-CANTILEVER, TYPE III-C-A	FOOT	35.00	
REMOVE SIGN PANEL - TYPE 3	SQ FT	130.00	
REMOVE & REINSTALL WALKWAY	FOOT	17.00	
REPAIR HANDRAIL LOCKING PIN CONNECTION	EACH	4.00	
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	8.00	
REMOVE CONCRETE FOUNDATION-OVERHEAD	EACH	1.00	
REMOVE SAFETY CHAIN	EACH	2.00	
STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FT POSTS	FOOT	25.00	
FURNISH AND ERECT SIGN PANEL	SQ FT	130.00	
REMOVE REERECT TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1.00	
DISCONNECT SIGN LIGHTING AND REMOVE WIRING TO NEAREST SPLICE	EACH	1.00	
CONSTRUCTION LAYOUT	L SUM	0.17	
NIGHTTIME WORK ZONE LIGHTING	L SUM	0.17	
GUARDRAIL MARKERS, TYPE A	EACH	2.00	
SAFETY CHAIN	EACH	2.00	
This structure is being completely replaced.			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
Schedule of Quantities

Location No.: 5		State I.D. No.: 6C0841055L096.4					
County:	SANGAMON	Route:	I-55	M.P.:	96.4	Direction:	SB
Description of Work	Unit	Quantity					
REMOVE OVERHEAD SIGN STRUCTURE-CANTILEVER	EACH	1.00					
OVERHEAD SIGN STRUCTURE-CANTILEVER, TYPE III-C-A	FOOT	35.00					
REMOVE SIGN PANEL - TYPE 3	SQ FT	166.25					
REMOVE & REINSTALL WALKWAY	FOOT	20.00					
REPAIR HANDRAIL LOCKING PIN CONNECTION	EACH	4.00					
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	8.00					
REMOVE CONCRETE FOUNDATION-OVERHEAD	EACH	1.00					
REMOVE SAFETY CHAIN	EACH	2.00					
STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FT POSTS	FOOT	25.00					
FURNISH AND ERECT SIGN PANEL	SQ FT	165.00					
REMOVE REERECT TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1.00					
DISCONNECT SIGN LIGHTING AND REMOVE WIRING TO NEAREST SPLICE	EACH	1.00					
CONSTRUCTION LAYOUT	L SUM	0.17					
NIGHTTIME WORK ZONE LIGHTING	L SUM	0.17					
GUARDRAIL MARKERS, TYPE A	EACH	2.00					
RELOCATE & REINSTALL VIDEO CAMERA & EQUIPMENT	EACH	1.00					
SAFETY CHAIN	EACH	2.00					
TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	1.00					
This structure is being completely replaced							

Location No.: 6		State I.D. No.: 6C0841055R096.5					
County:	SANGAMON	Route:	I-55	M.P.:	96.5	Direction:	NB
Description of Work	Unit	Quantity					
REMOVE OVERHEAD SIGN STRUCTURE-CANTILEVER	EACH	1.00					
OVERHEAD SIGN STRUCTURE-CANTILEVER, TYPE III-C-A	FOOT	35.00					
REMOVE SIGN PANEL - TYPE 3	SQ FT	203.50					
REMOVE & REINSTALL WALKWAY	FOOT	22.00					
REPAIR HANDRAIL LOCKING PIN CONNECTION	EACH	5.00					
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	9.10					
REMOVE CONCRETE FOUNDATION-OVERHEAD	EACH	1.00					
REMOVE SAFETY CHAIN	EACH	2.00					
STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FT POSTS	FOOT	25.00					
FURNISH AND ERECT SIGN PANEL	SQ FT	228.00					
REMOVE REERECT TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1.00					
DISCONNECT SIGN LIGHTING AND REMOVE WIRING TO NEAREST SPLICE	EACH	1.00					
CONSTRUCTION LAYOUT	L SUM	0.15					
NIGHTTIME WORK ZONE LIGHTING	L SUM	0.15					
GUARDRAIL MARKERS, TYPE A	EACH	2.00					
SAFETY CHAIN	EACH	2.00					
This structure is being completely replaced.							



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
 $f_t = 3,500$ 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 Bridge Seat 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 Concrete Foundations and Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

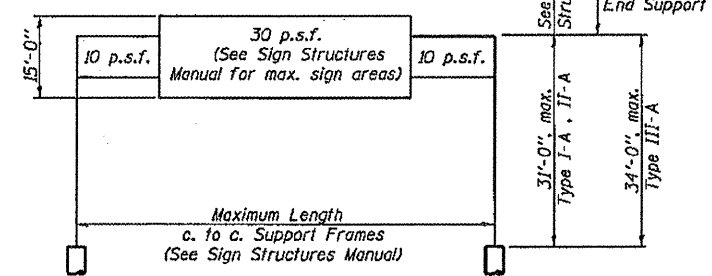
TYPICAL ELEVATION
 (Looking at Face of Signs)**

Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.

Structure Number	Station	Design Truss Type	c. to c. Supports	Elev. A	Dim. D	Height of Tallest Sign	Total Sign Area
6S0841055R099.4	624+25	I-A	65'-0"	573.29	15'-0"	11'-0"	339.0
6S0841072L104.2	65+00	II-A	116'-0"	549.50	38'-0"	17'-6"	512.75

**Looking upstation for structures with signs both sides.

* 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.

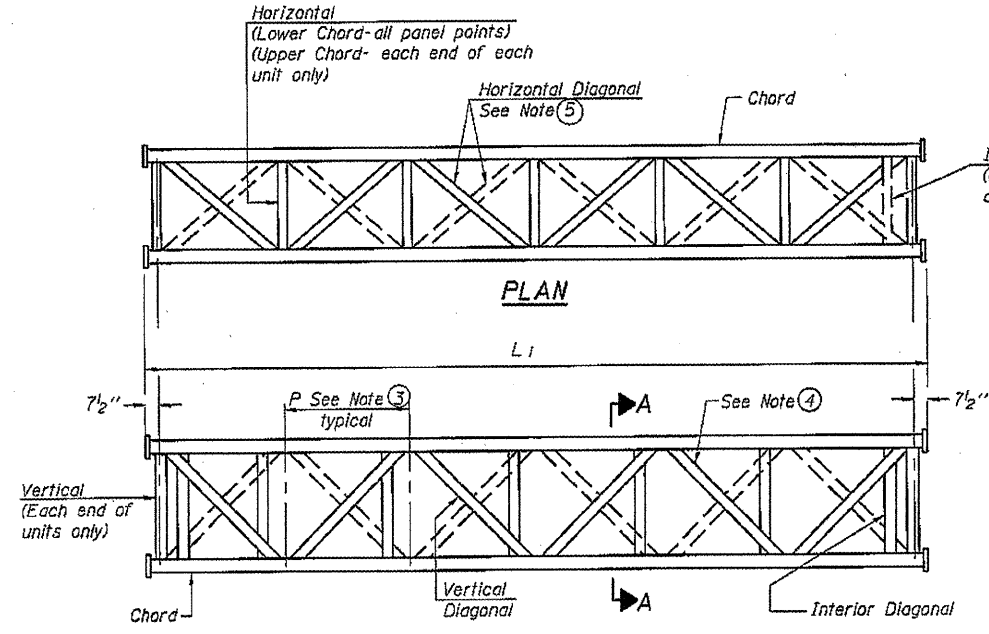


DESIGN WIND LOADING DIAGRAM

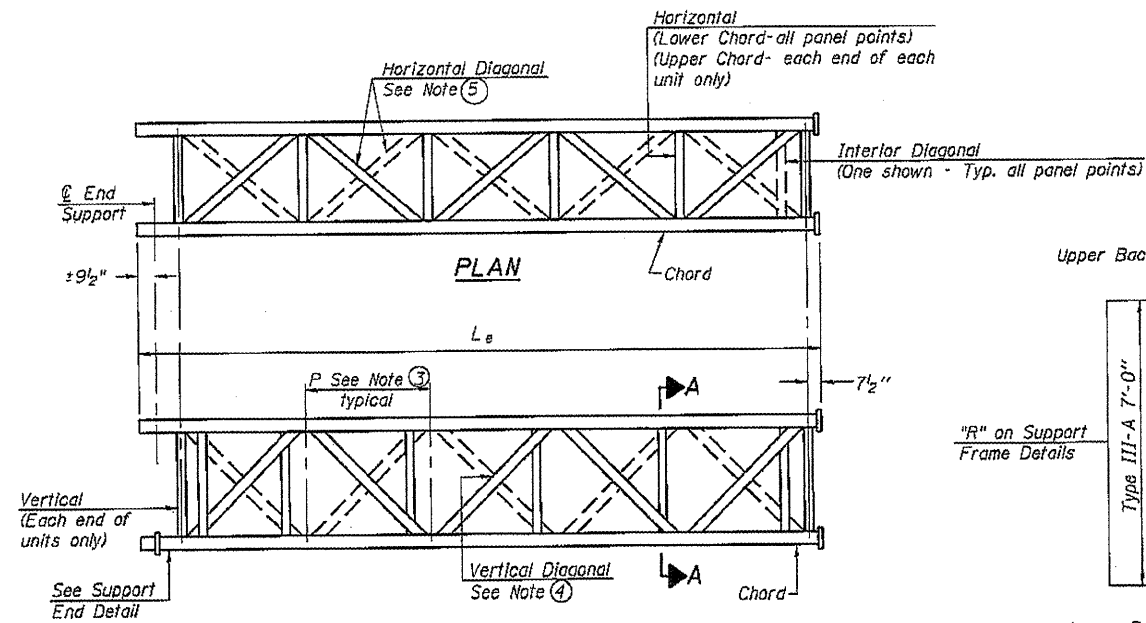
Parameters shown are basis for I.D.Q.T. Standards and Sign Manual Tables. Installations not within dimensional limits shown require special analysis for all components.

TOTAL BILL OF MATERIAL

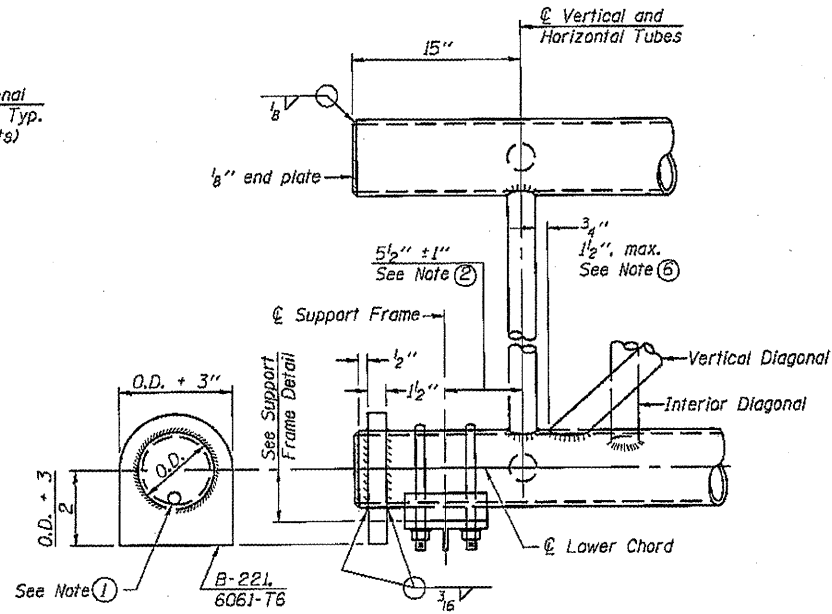
ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE SPAN TYPE I-A	Foot	
OVERHEAD SIGN STRUCTURE SPAN TYPE II-A	Foot	
OVERHEAD SIGN STRUCTURE SPAN TYPE III-A	Foot	
OVERHEAD SIGN STRUCTURE WALKWAY TYPE A	Foot	
CONCRETE FOUNDATIONS	Cu. Yds.	
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	



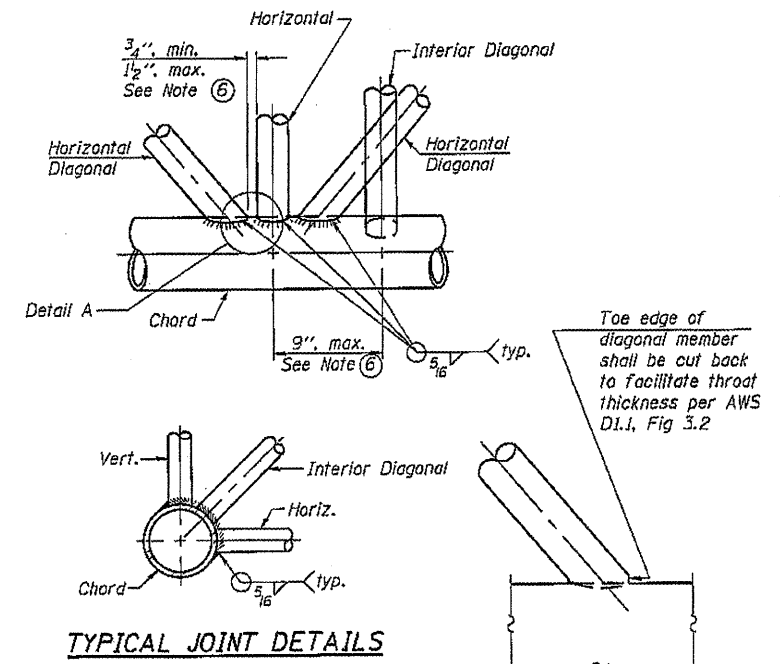
**ELEVATION
TYPICAL INTERIOR UNIT**
Even number of panels/interior unit required.



**ELEVATION
TYPICAL EXTERIOR UNIT**
Even or odd number of panels/exterior units allowed.

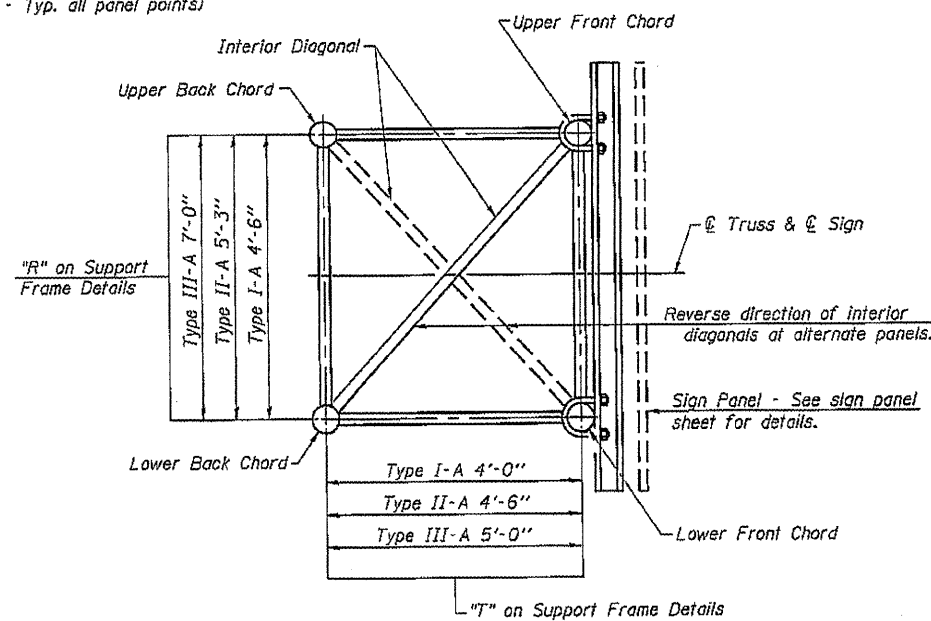


SUPPORT END DETAIL FOR EXTERIOR UNIT



TYPICAL JOINT DETAILS

DETAIL A



SECTION A-A

- ① Contractor may alternatively use standard aluminum drive-fit cap to close end. 1/2" ϕ drain hole in end plate/drive-fit cap. (Typ. at ends of all chords)
- ② 5 1/2" end dimension may vary by $\pm 1"$ 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 1/2" maximum clearance between any diagonal and any horizontal or vertical member, and to provide clearance for U-bolt connections of signs or walkway brackets.

OS-A-2

1-20-11

FILE NAME =	USER NAME = kellyj	DESIGNED -	REVISED -
B:\Sign Truss Plan Details\46196\4619651	Repl.dgn	DRAWN -	REVISED -
PLOT SCALE = 0.1802 ft / in.	CHECKED -	REVISED -	REVISED -
PLOT DATE = Sep-30-2011 10:29:05AM	DATE -	REVISED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

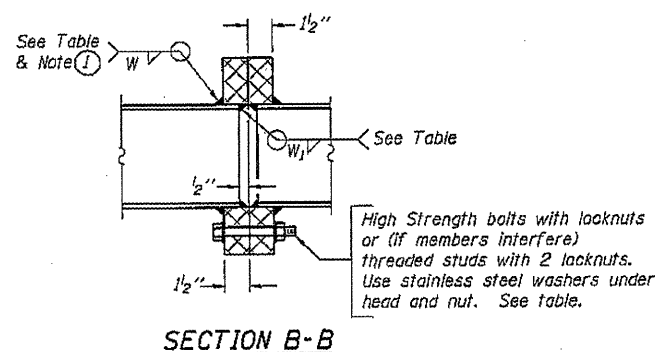
OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS
DETAILS FOR TRUSS TYPES I-A, II-A AND III-A

SCALE: _____ SHEET NO. _____ OF _____ SHEETS STA. _____ TO STA. _____

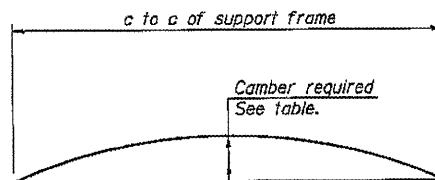
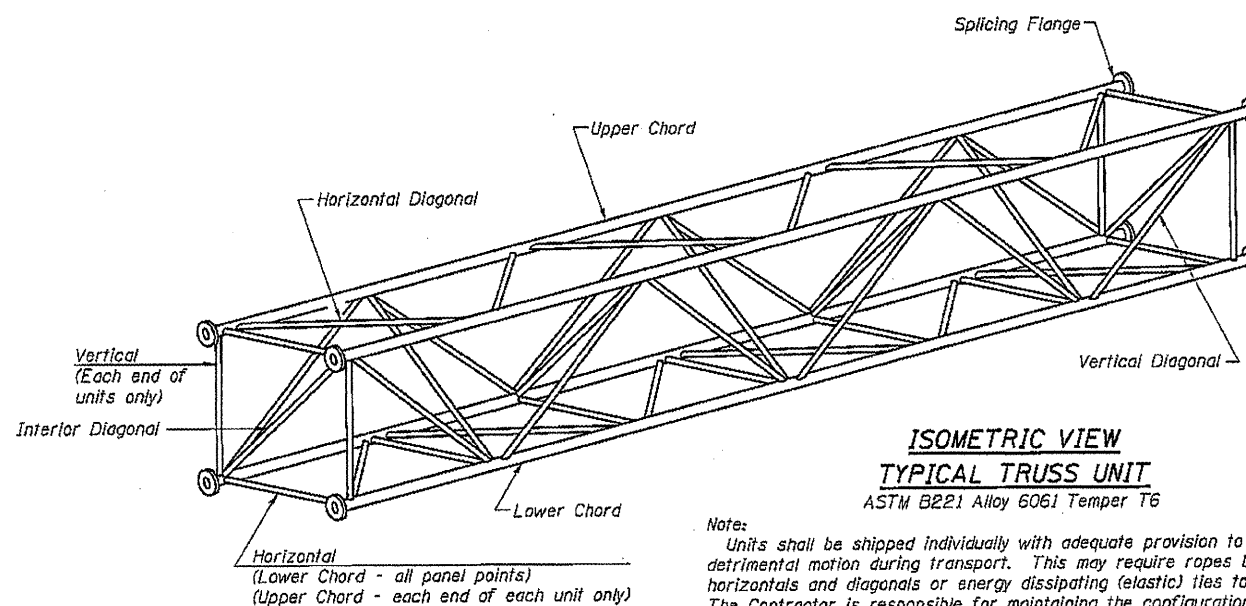
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	0-6_OVD51NSIBREEL12-23	SANGAMON	33	8
ILLINOIS FED. AID PROJECT			CONTRACT NO. 46196	

TRUSS UNIT TABLE

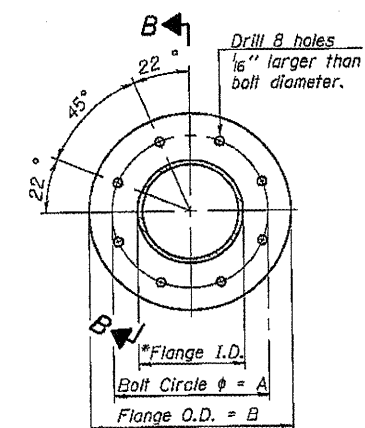
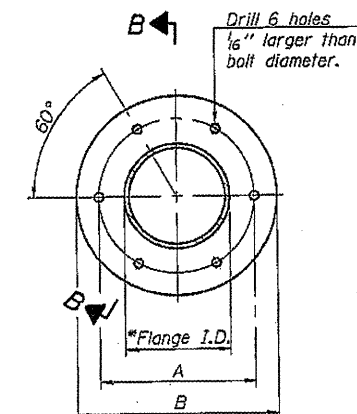
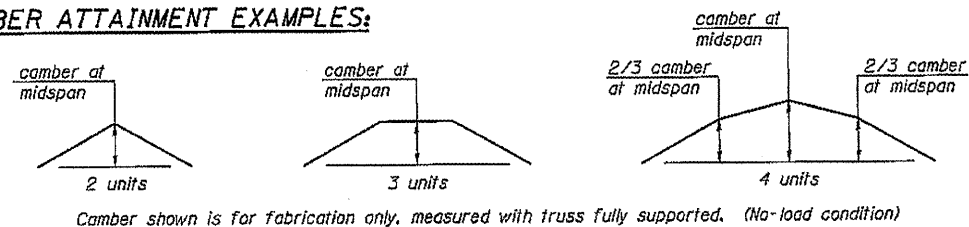
Structure Number	Station	Design Truss Type	Exterior Units (2)			Interior Unit				Upper & Lower Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals		Camber at Midspan	Splicing Flange						
			No. Panels per Unit	Unit Lgth.(L _e)	Panel Lgth.(P)	No. Req'd.	No. Panels per Unit	Unit Lgth.(L _i)	Panel Lgth.(P)	O.D.	Wall	O.D.	Wall		Bolts		Weld Sizes		A	B	
															No./Splice	Dia.	W	W ₁			
6S0841055R099.4	624+25	I-A	7	33'-4 1/2"	4'-6"	0	-	-	-	5"	5/16"	2 1/2"	5/16"	1.51"	6	7/8"	5/16"	1/4"	8 3/4"	11 3/4"	
6S0841072L104.2	65+00	II-A	8	39'-4 1/2"	4'-8 1/4"	1	8	38'-9"	4'-8 1/4"	7"	5/16"	3"	5/16"	3.96"	6	1"	3/8"	1/4"	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 locks shall be made to secure flanges until remaining welds are made after disassembly. Adjacent flanges shall be "match marked" to insure proper field assembly.



CAMBER ATTAINMENT EXAMPLES:



SPLICING FLANGES
ASTM B221, Alloy 6061-T6
or ASTM B209, Alloy 6061-T651
*To fit O.D. of Chord with maximum gap of 1/16".

OS4-A-2

1-20-11

FILE NAME =	USER NAME = kclag_b	DESIGNED -	REVISED -
S:\Sign Truss Plan Details\46198\46198.dgn	Rep.dgn	DRAWN -	REVISED -
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PLOT DATE = Sep-30-2011 10:26:31AM	DATE -		

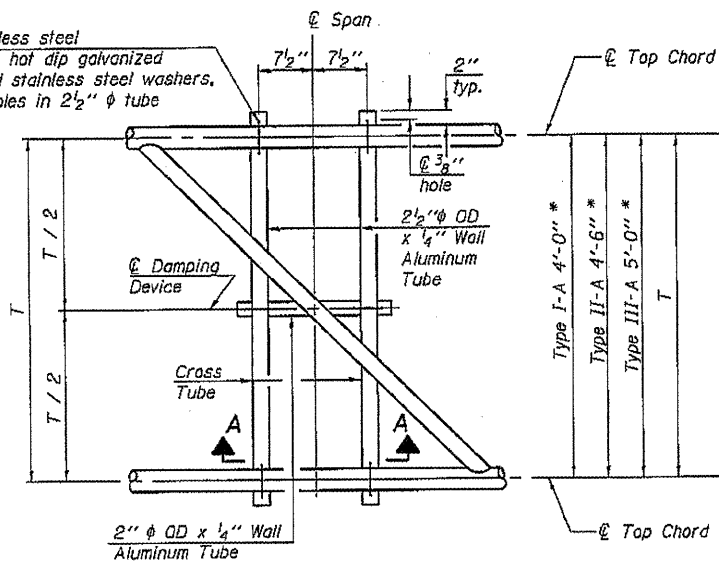
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS DETAILS
FOR TRUSS TYPES I-A, II-A AND III-A

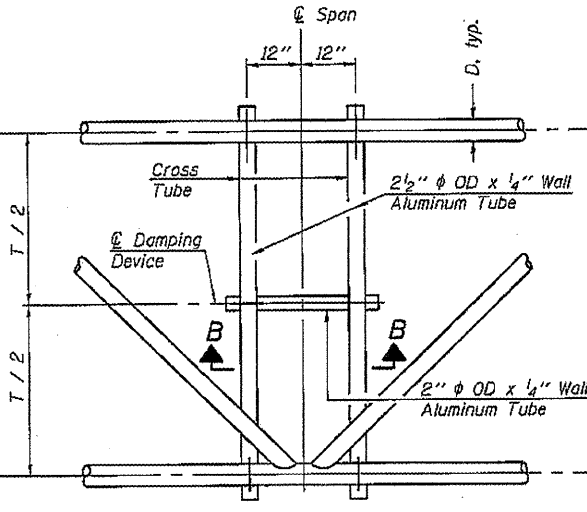
SCALE: _____ SHEET NO. _____ OF _____ SHEETS STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
▬ AB	Q-6_OVRSIGNSTRREPL12-23	SANGAMON	33	9
CONTRACT NO. 46196			ILLINOIS FED. AID PROJECT	

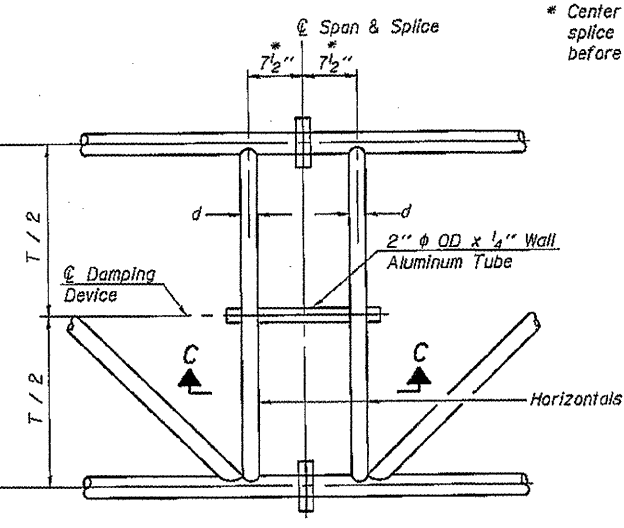
5/16" φ stainless steel
U-bolt with hot dip galvanized
locknuts and stainless steel washers,
typ. 3/8" φ holes in 2 1/2" φ tube



PLAN DETAIL "A"
Span between Panel Points



PLAN DETAIL "B"
Span at Panel Point



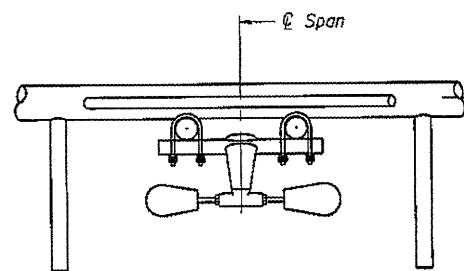
PLAN DETAIL "C"
Span at Chord Splice

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

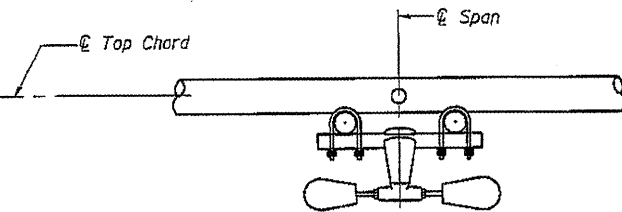
NOTES

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

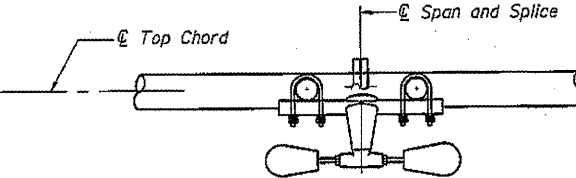
Materials: Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T5. Cost included in Overhead Sign Structure...



SECTION A-A

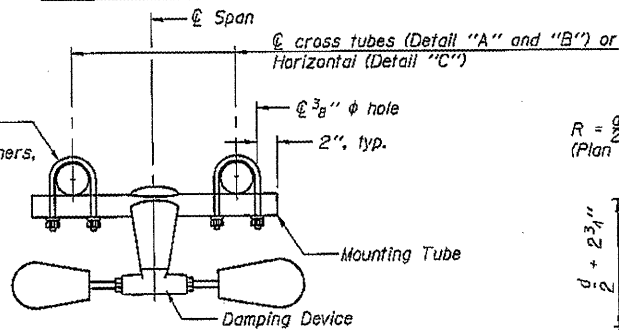


SECTION B-B

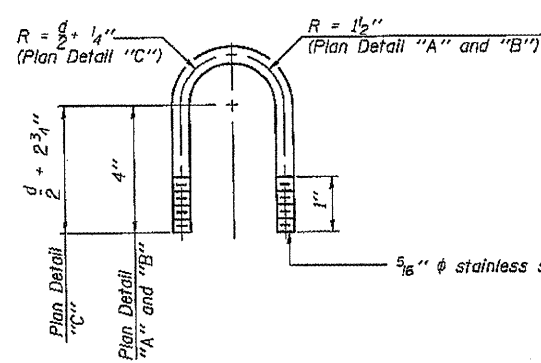


SECTION C-C

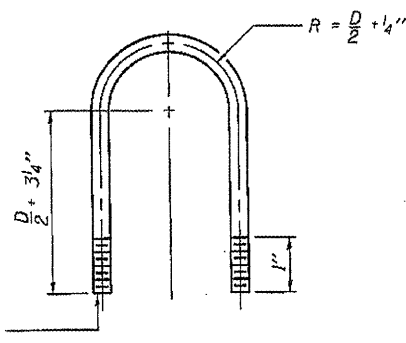
5/16" φ stainless steel
U-bolt with hot dip galvanized
locknuts and stainless steel washers,
typ. 3/8" φ holes in mounting tube



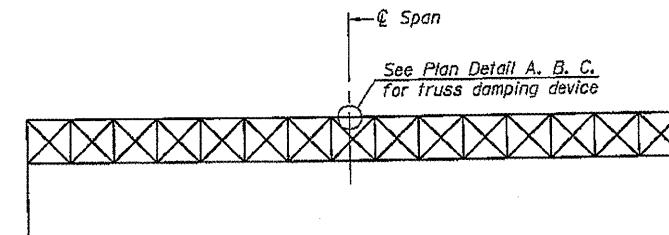
**TRUSS DAMPING
DEVICE CONNECTION DETAIL**
(Typical)



**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

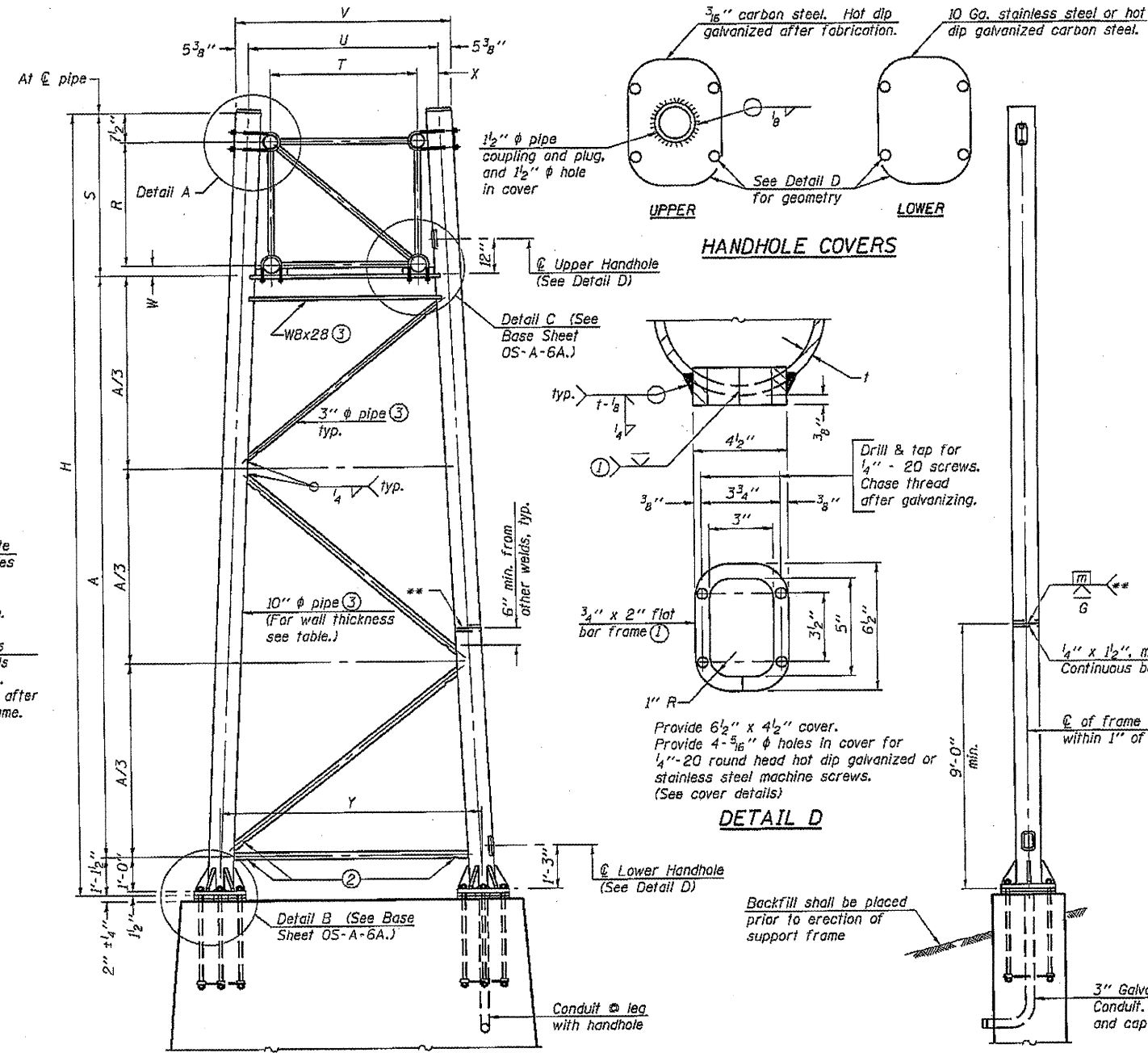
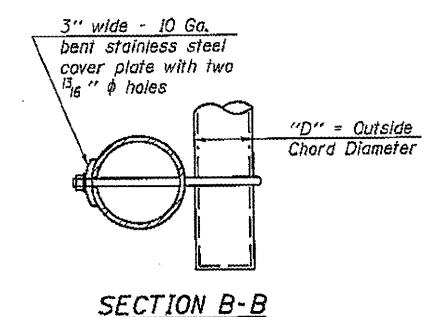
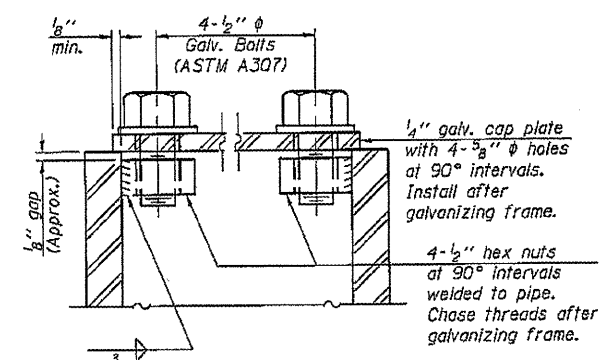
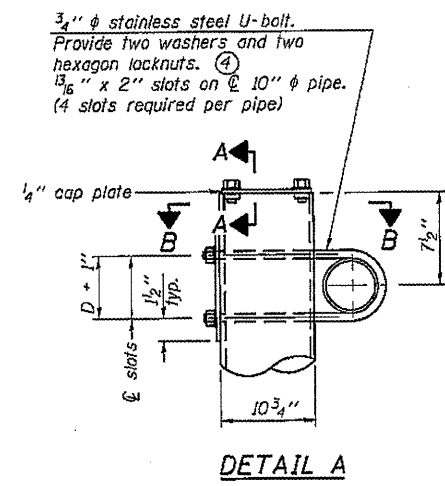
OS-A-D 1-20-11

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PLOT DATE = Sep-30-2011 10:26:58AM	DATE -	REVISED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURE			
DAMPING DEVICE			
SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	

F.A. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-6_OVDSINSTRBREL12-23	SANGAMON	33	10
CONTRACT NO. 46196			ILLINOIS FED. AID PROJECT	



For Foundation Details, see base sheet OS-F3 (Spread Footing) or OS4-F3 (Drilled Shaft).
SIDE ELEVATION

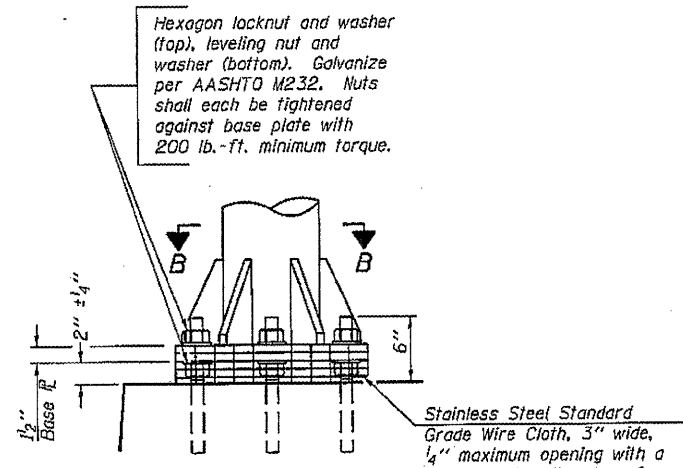
Truss Type	Dimensions							
	R	S	T	U	V	W	X	Y
I-A	4'-6"	5'-5 1/2"	4'-0"	5'-6"	6'-4 3/4"	4"	9"	8'-3"
II-A (5)	5'-3"	6'-3 1/4"	4'-6"	6'-1"	6'-11 3/4"	4 3/4"	9 1/2"	8'-3"

10" ϕ 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.

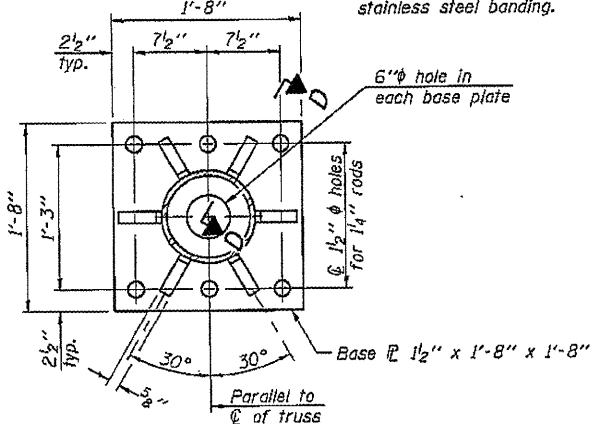
Support Design Loads: See Base Sheet OS-A-1 for design and loading criteria.
Load combinations checked include deadload plus:
a) 100% wind normal to sign, 20% parallel to sign
b) 60% wind normal to sign, 30% parallel to sign

- 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 500 μ m 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 OS-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.

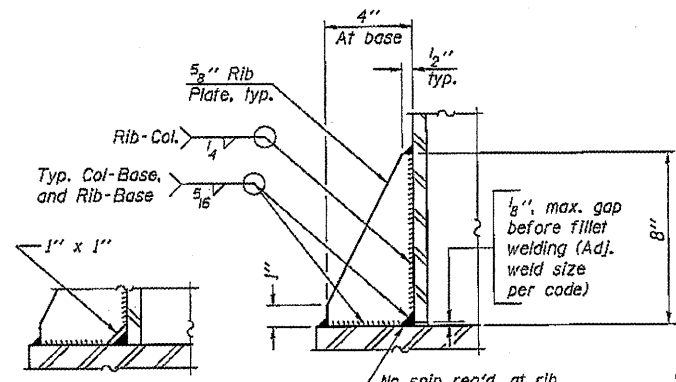
Structure Number	Station	Support		Truss Type	Pipe Wall Thickness	H (6)	A
		Left	Right				
6S0841055R099.4	624+25	X	X	I-A	0.279	28'-6 1/2"	22'-1 1/2"
6S0841072L104.2	65+00	X	X	II-A	0.5	33'-4"	27'-7 1/4"



DETAIL B
Ribs shall be cut to fit slope of pipe.



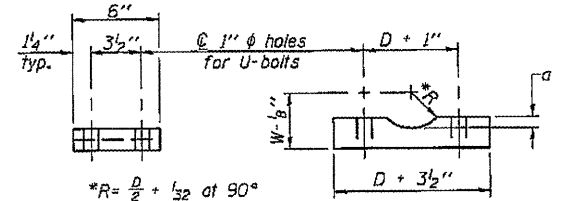
SECTION B-B



** Alternate detail if welding col. to base plate first, then snip inside corner of ribs. Terminate weld on rib 1/4" from snip.

No snip req'd. at rib inside corner if placed before col. to base plate welding.**

SECTION D-D

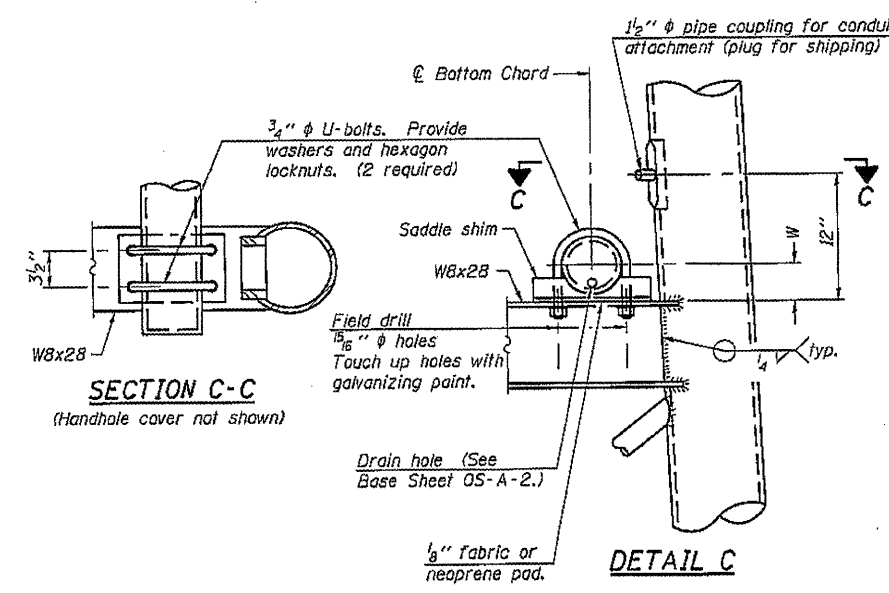


*R = $\frac{D}{2} + \frac{1}{32}$ at 90°

D = Outside Diameter of Chord.
For W, see Base Sheet OS-A-6.

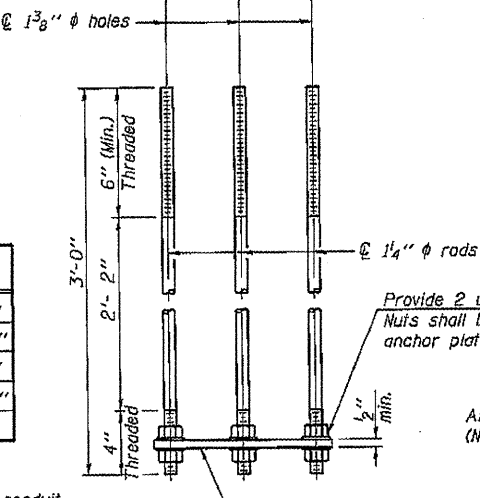
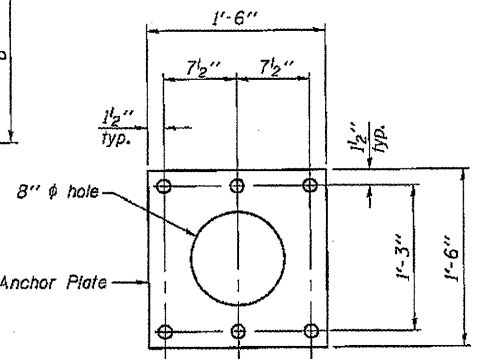
SADDLE SHIM DETAIL
ASTM B26 Alloy 356-F
or
ASTM B209 Alloy 6061-T651
(4 required per sign truss)

Truss Chord Nominal Dia.	a
5"	3/4"
5 1/2"	13/16"
6"	7/8"
6 1/2"	15/16"
7"	1"

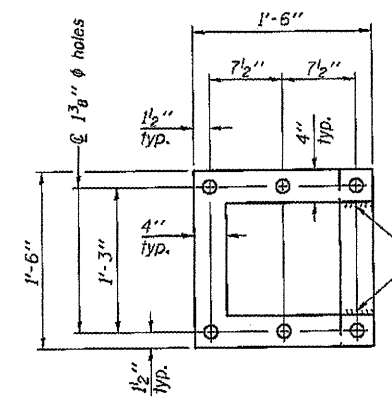


SECTION C-C
(Handhole cover not shown)

DETAIL C



ANCHOR ROD DETAIL
Spread Footing Foundation

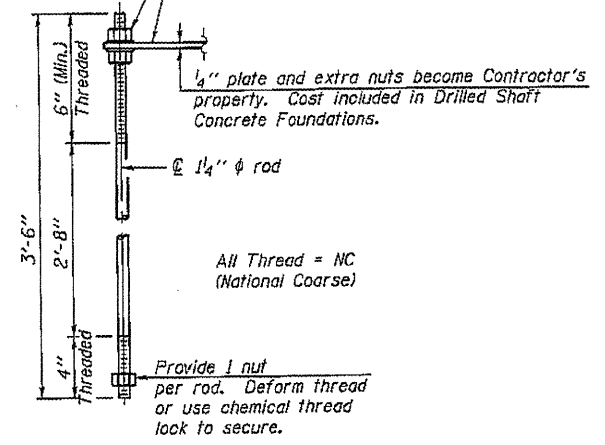


POSITIONING PLATE(S)

Optionally may use four (4) separate bars. Weld to maintain perpendicularity.

At each location, provide 1/4" thick positioning plate(s) and six (6) additional nuts to be used with leveling nuts to maintain anchor bolts position during concrete placement.

1/4" plate and extra nuts become Contractor's property. Cost included in Drilled Shaft Concrete Foundations.



ANCHOR ROD DETAIL
Drilled Shaft Foundation

Anchor rods shall conform to ASTM F1554 Grade 105. Galvanize upper 12" minimum per AASHTO M232. No welding shall be permitted on rods.

10" ϕ PIPE SUPPORT FRAME DETAILS

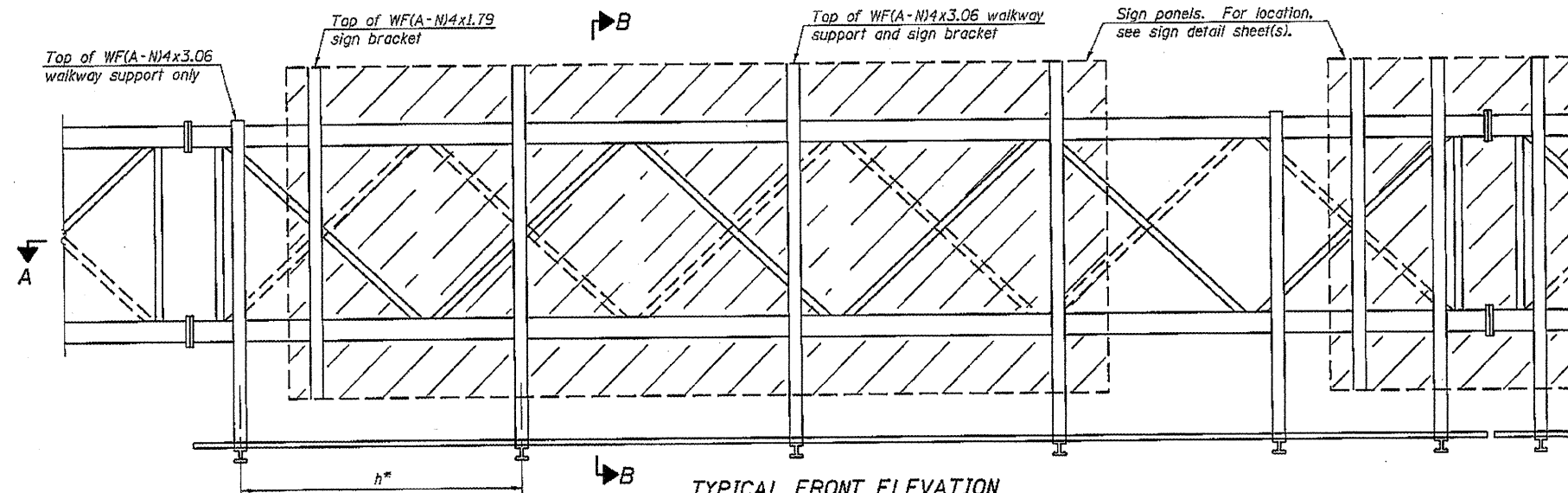
OS-A-6A 1-20-11

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PLOT DATE = Sep-30-2011 10:27:33AM	DATE -	REVISED -	REVISED -

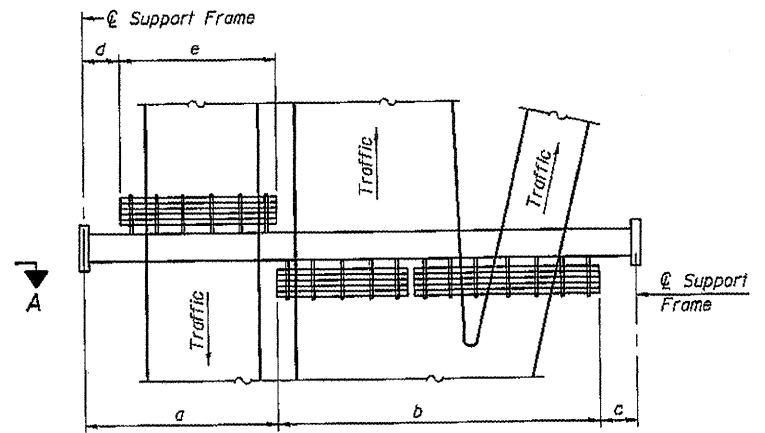
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES	
SUPPORT FRAME DETAILS - ALUMINUM TRUSS	
SCALE: _____	SHEET NO. ____ OF ____ SHEETS STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0-6	OVDSINSTRBEEL12-23	SANGAMON	33	12
				CONTRACT NO. 46196
ILLINOIS FED. AID PROJECT				



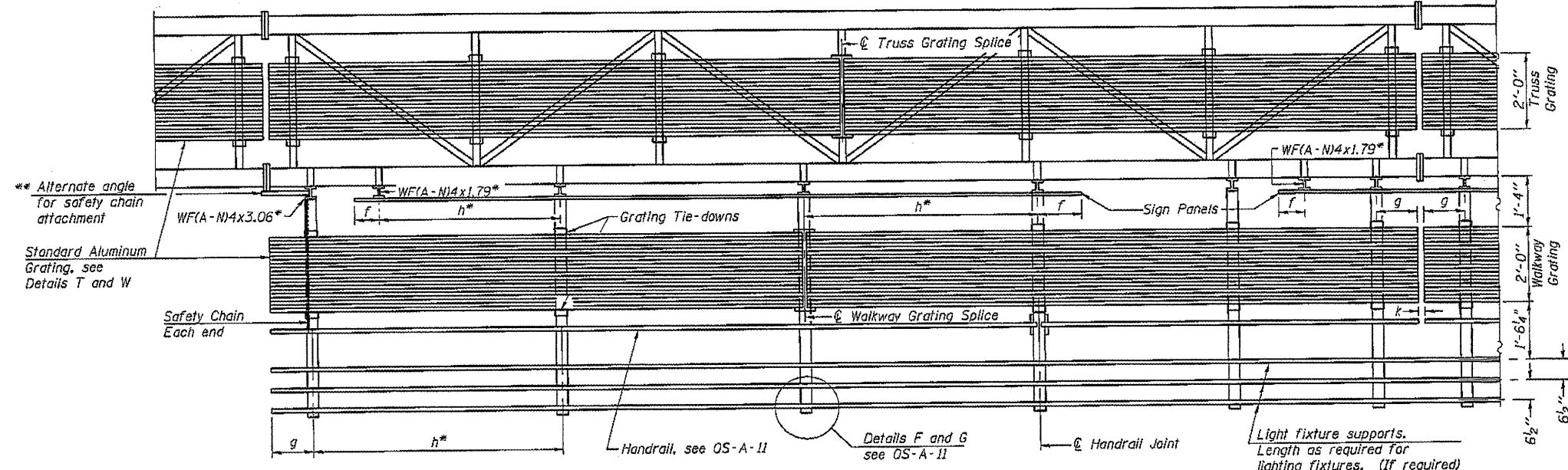
TYPICAL FRONT ELEVATION
 With lights and handrail omitted for clarity.
 For Section B-B, see Base Sheet OS-A-10.



PLAN WALKWAY AND HANDRAIL SKETCH
 (Road plan beneath truss varies)

BRACKET TABLE

WF(A-N)4x1.79 or WF(A-N)4x3.06 ASTM B308, Alloy 6061-T6		
Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
	8'-0"	2
	14'-0"	3
	20'-0"	4
	26'-0"	5
	32'-0"	6



SECTION A-A

Handrail and walkway shall span a minimum of three brackets between splices and/or gap joints. Place all sign and walkway brackets as close to panel points as practical. Handrail joints, grating, and light support splices placed as needed.

Notes:
 * Space walkway brackets WF(A-N)4x3.06 and sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:
 f = 12" maximum, 4" minimum (End of sign to center of nearest bracket)
 g = 12" maximum, 4" minimum (End of walkway grating to center of nearest support bracket)
 h = 6'-0" maximum (center to center of sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)
 k = 2" maximum gap between adjacent walkway grating sections and handrail ends
 ** If walkway bracket at safety chain location is behind sign, add angle to bracket, see Alternate Safety Chain Attachment on Base Sheet OS-A-11.
 For Details T and W, Section B-B and Grating Splice Details see Base Sheet OS-A-10.
 For Handrail Details see Base Sheet OS-A-11.

Structure Number	Station	a	b	c	d	e	Walkway Grating and Handrail Lengths
6S0841055R099.4	624+25	N/A	N/A	N/A	N/A	N/A	37'-0"
6S0841072L104.2	65+00	N/A	N/A	N/A	N/A	N/A	56'-9"

Truss grating to facilitate inspection shall run full length (center to center of support frames) ±12" on overhead trusses. Cost of truss grating is included in "Overhead Sign Structure".

Walkway and Truss Grating width dimensions are nominal and may vary ±1/2" based on available standard widths.

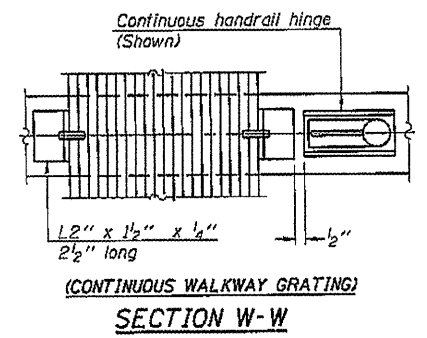
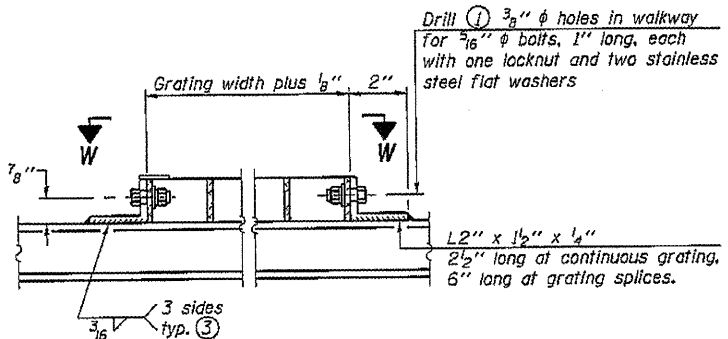
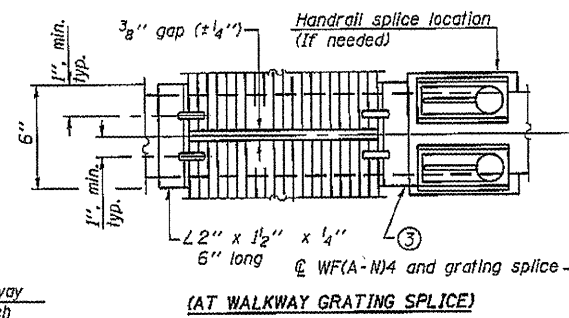
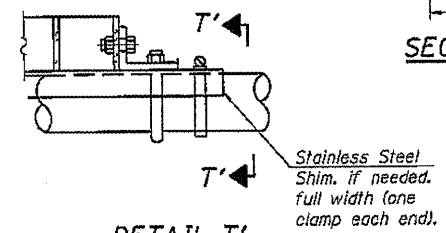
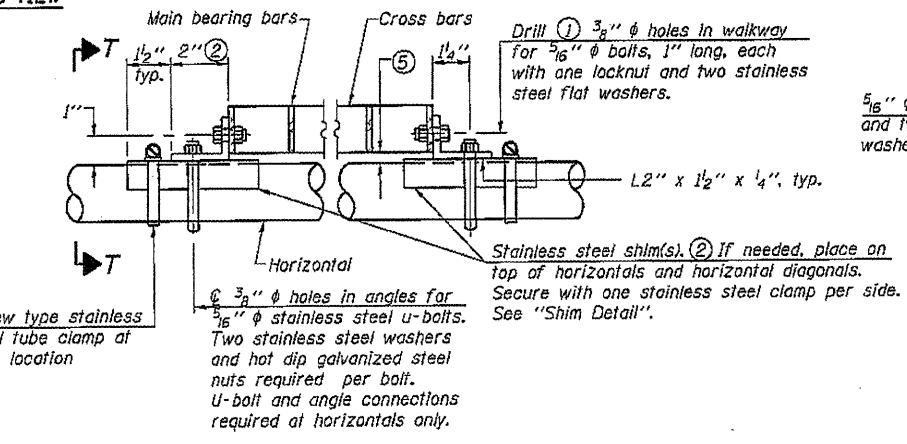
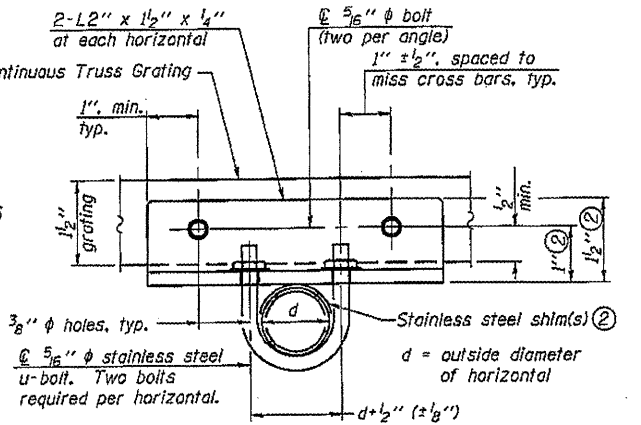
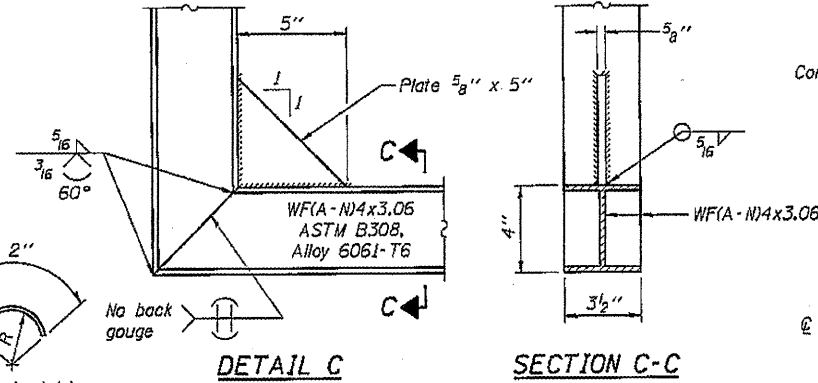
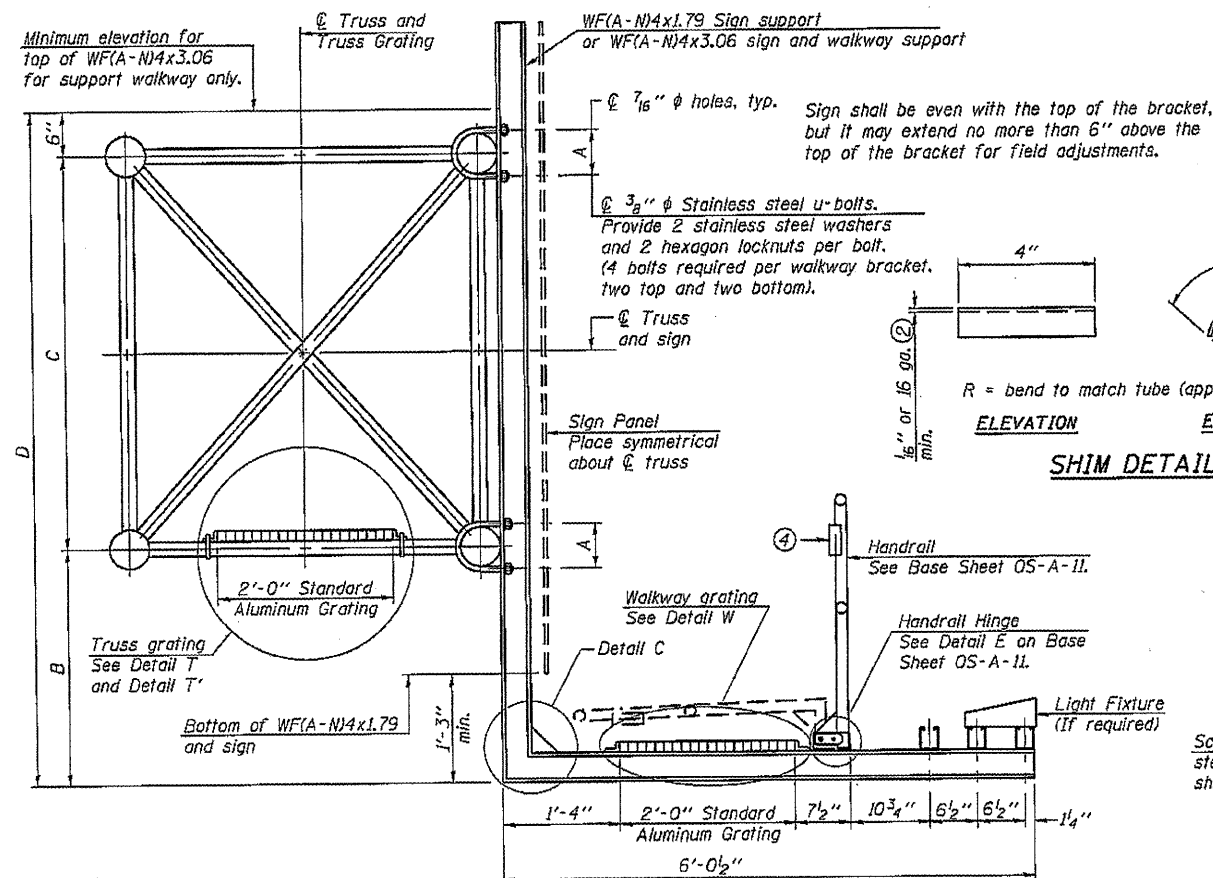
OS-A-9 1-20-11

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Rep1.dgn		DRAWN -	REVISED -
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PLOT DATE = Sep-20-2011 10:28:05AM		DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES	
ALUMINUM WALKWAY DETAILS	
SCALE: _____	SHEET NO. ____ OF ____ SHEETS STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-6_CVD5INSTRBEE12-23	SANGAMON	33	13
CONTRACT NO. 46196			ILLINOIS FED. AID PROJECT	



SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars shall be 3/16" x 1/2" on 1 3/16" centers and conform to ASTM B221 Alloy 6061-T6.
 Cross bars shall be 3/16" x 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

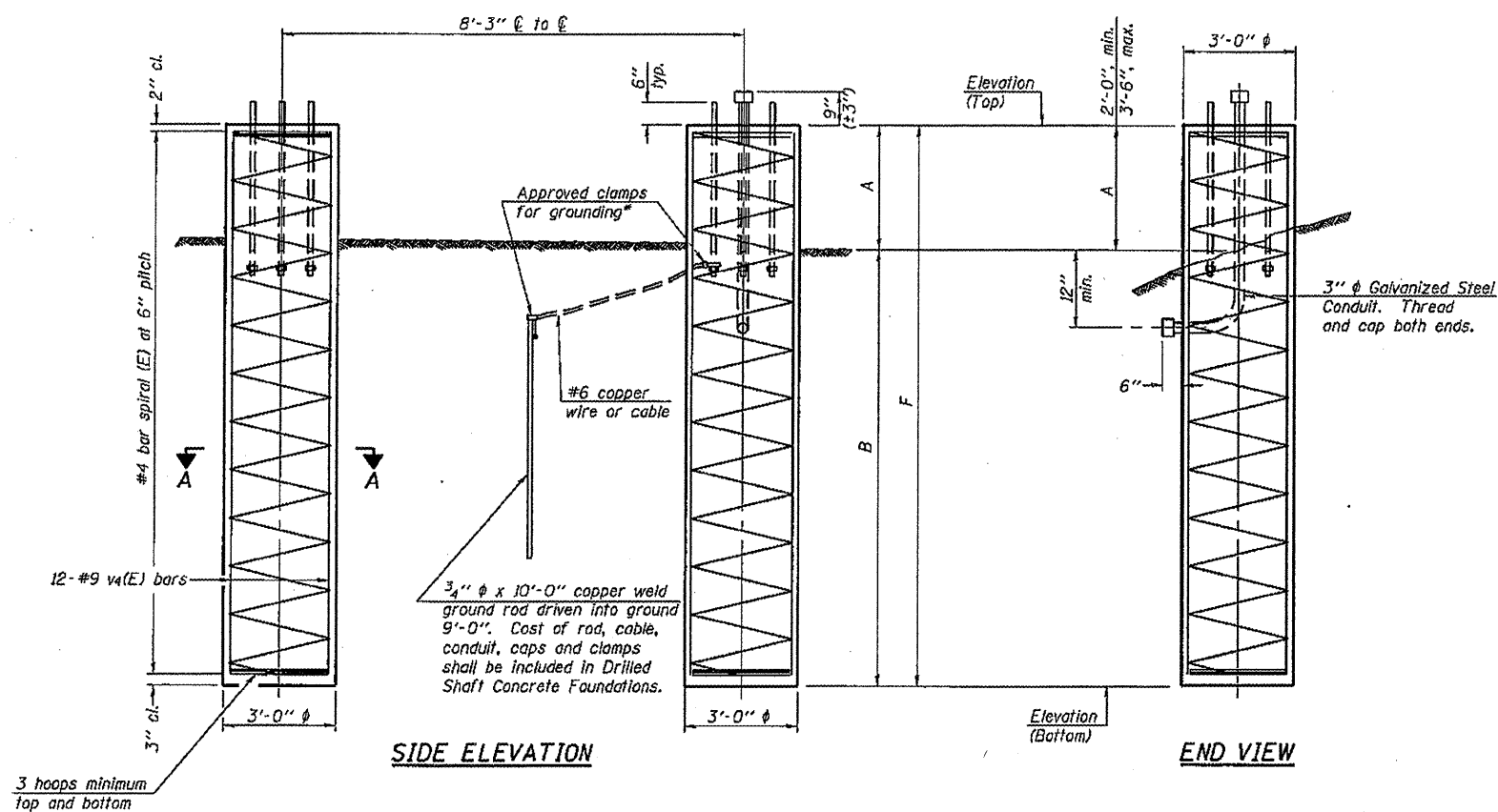
OR

Aluminum Grating with modified "T" sections for main bearing bars shall meet the following requirements:
 Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.³ per bar, a depth of 1/2", spaced on 1 3/16" centers.
 Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

- Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
- If Handrail Joint present, weld angle to WF(A-N)4 and 1/4" extension bars. (See Base Sheet OS-A-11.)
- 2 1/2" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.
- Tube to grating gap may vary from 0 to 1/2", max. to align walkway, allow for camber, etc.
- Based on actual height of tallest sign given on OS-A-1.

Structure Number	Station	A	B	C	D
6S0841055R099.4	624+25	5' 3/16"	2'-9"	4'-6"	7'-9"
6S0841072L104.2	65+00	7' 15/16"	5'-3"	8'-0"	13'-9"

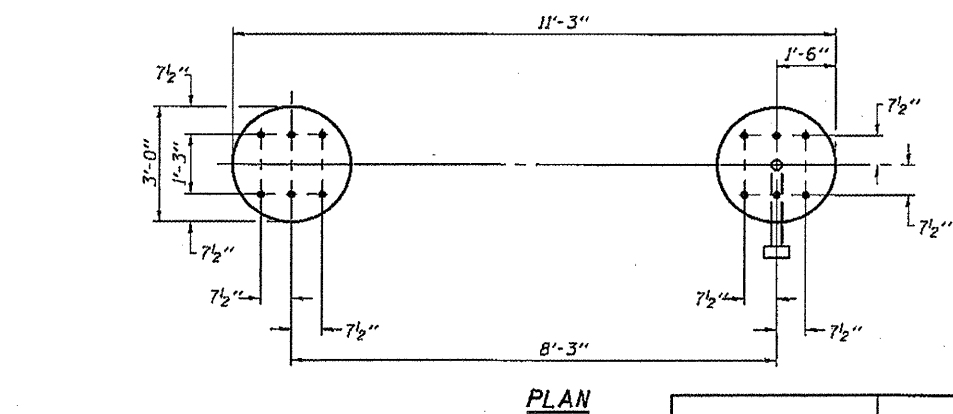
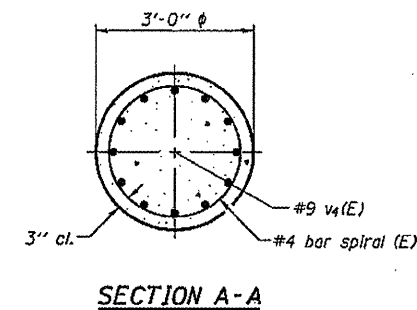
OS-A-10 1-20-11



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 (Cu) 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 Bridge Seat 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.

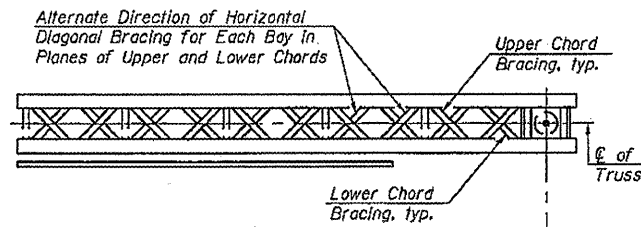
**DETAILS FOR 10" Ø SUPPORT FRAME
 TYPE I-A or II-A TRUSS**

* SN 6S0841055R099.4 - Estimated Top of Rock Elevation = 558.5
 SN 6S0841072L104.2 - Estimated Top of Rock Elevation = 535.0

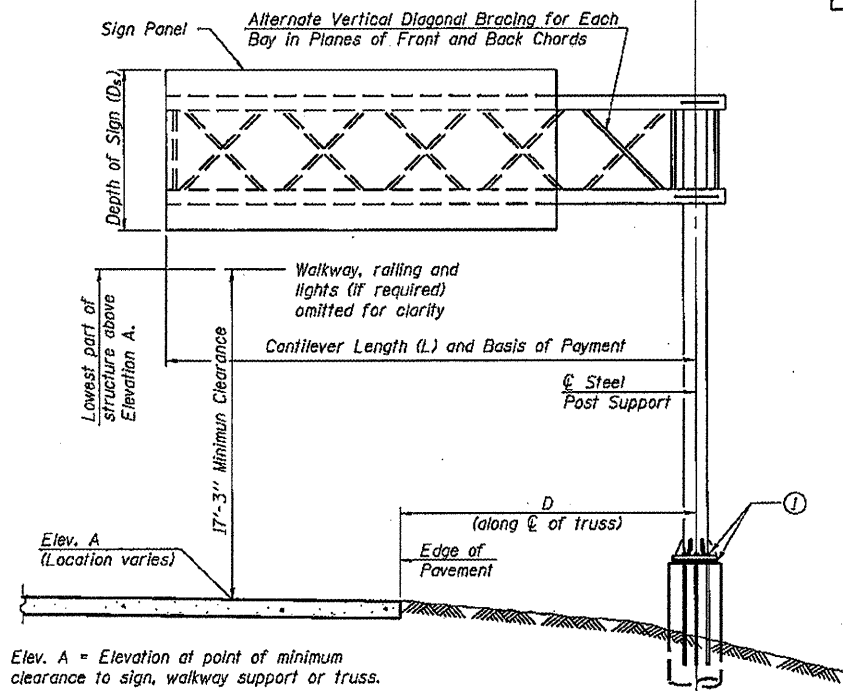
Structure Number	Station	Left Foundation			Right Foundation			Class DS Concrete (Cu. Yds.)	Drilled Shaft in Rock (Cu. Yds.)				
		Elevation Top	Elevation Bottom	A	B	F	Elevation Top			Elevation Bottom	A	B	F
6S0841055R099.4	624+25	571.34		3'-6"	14'-6"	18'-0"	571.34		3'-6"	14'-6"	18'-0"	13.4	5.4
6S0841072L104.2	65+00	544.90		3'-6"	14'-6"	18'-0"	544.90		3'-6"	14'-6"	18'-0"	10.4	6.4

OS4-F3 1-20-11

FILE NAME *	USER NAME = copenborgards	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	OVERHEAD SIGN STRUCTURES DRILLED SHAFT DETAILS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
SASign Truss Plan Details\46196\alum.simp	le.spen.sign.cad	DRAWN -	REVISED -			VAR	D-6 OVD5INSTREPL12-23	SANGANON	33	15	
PLOT SCALE = 0:2.2274 1/2" / 1"	CHECKED -	REVISED -				SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 46196		
PLOT DATE = Nov-04-2011 10:58:47AM	DATE -	REVISED -				ILLINOIS FED. AID PROJECT					



TYPICAL PLAN
(Walkway not shown)

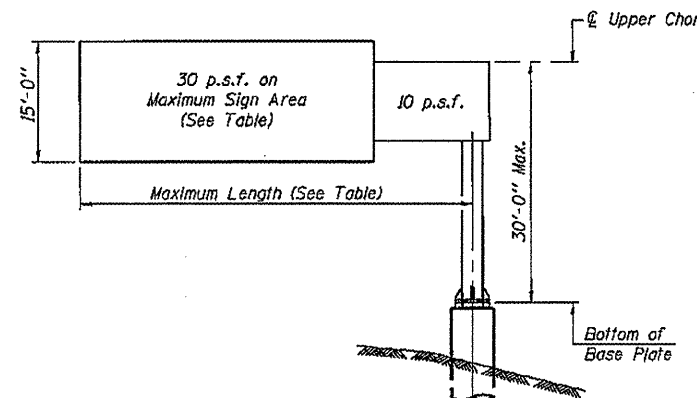


TYPICAL ELEVATION
Looking in Direction of Traffic

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.

Structure Number	Station	Design Truss Type	Cantilever Length (L)	Elev. A	Dim. D	D _s	Total Sign Area
6C0841055L103.6	396+00	II-C-A	30'-0"	573.10	18'-0"	6'-6"	78.0
6C0841055L099.6	610+65	III-C-A	35'-0"	609.46	22'-0"	8'-0"	130.0
6C0841055L096.4	274+00	III-C-A	35'-0"	596.37	20'-0"	7'-6"	165.0
6C0841055R096.5	276+70	III-C-A	35'-0"	592.07	18'-0"	9'-0"	228.0

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.

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
 $f_c = 3,500$ 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 Bridge Seal 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	
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	Foot	
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	

OSC-A-1

1-20-11

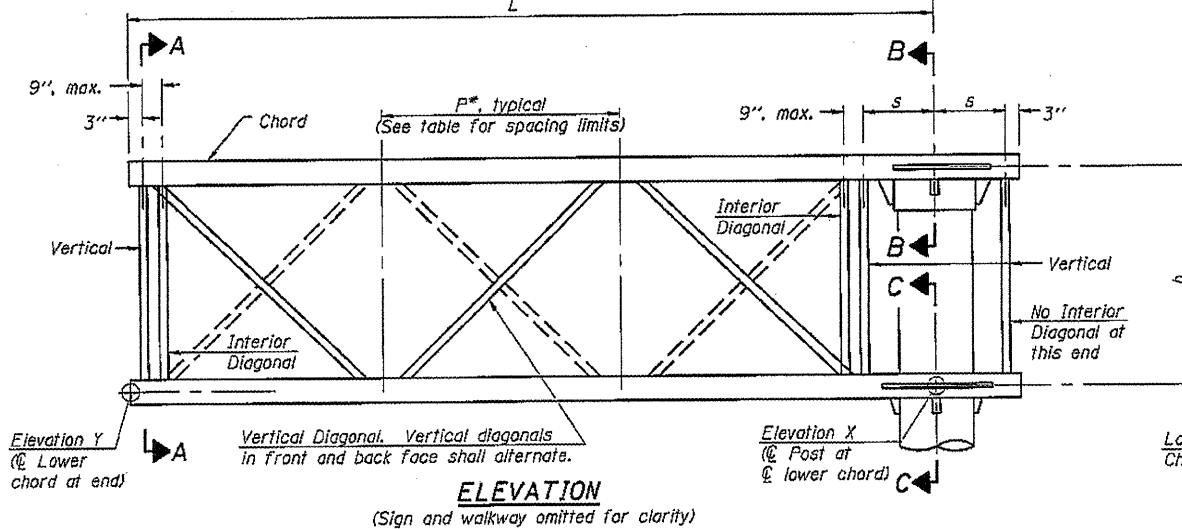
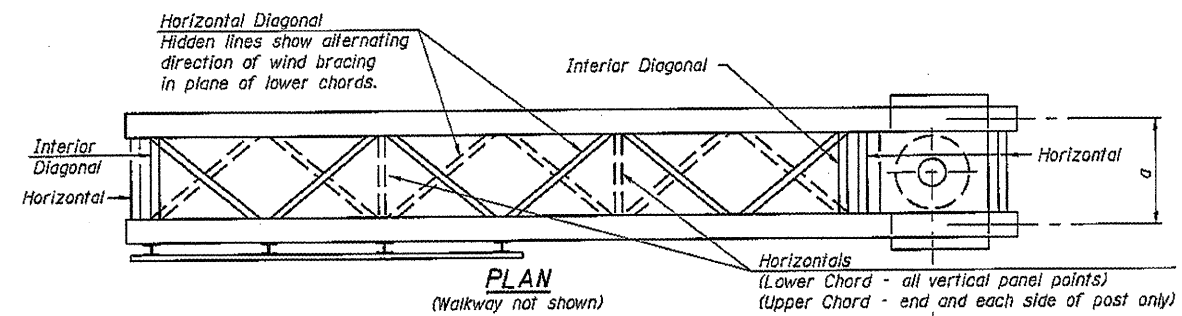
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - GENERAL PLAN & ELEVATION
ALUMINUM TRUSS & STEEL POST

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR D-6	OVDSINSTREPL12-23	SANGAMON	33	16
				CONTRACT NO. 46196
ILLINOIS FED. AID PROJECT				



TYPICAL TRUSS UNIT

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

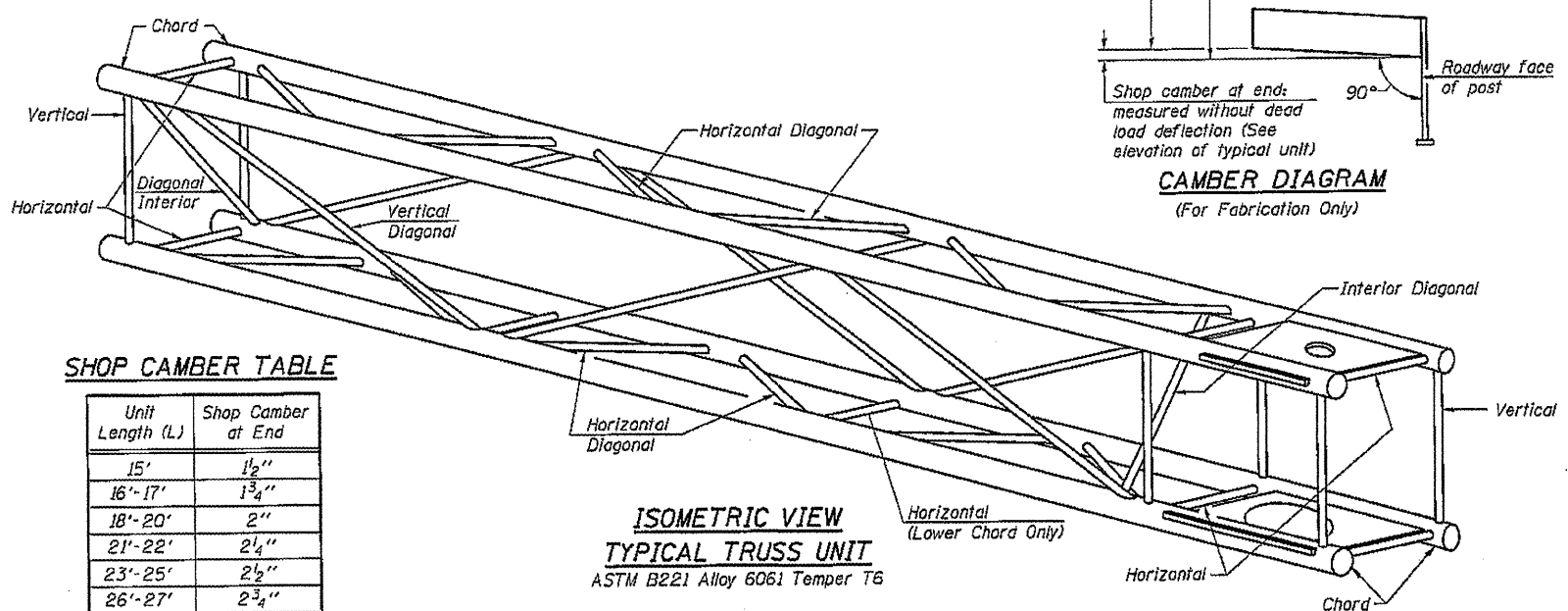
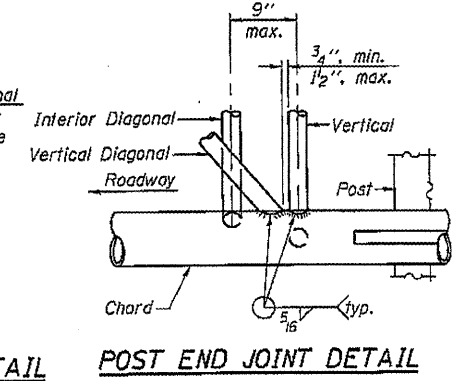
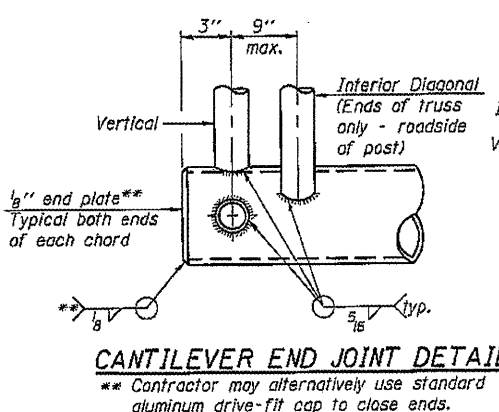
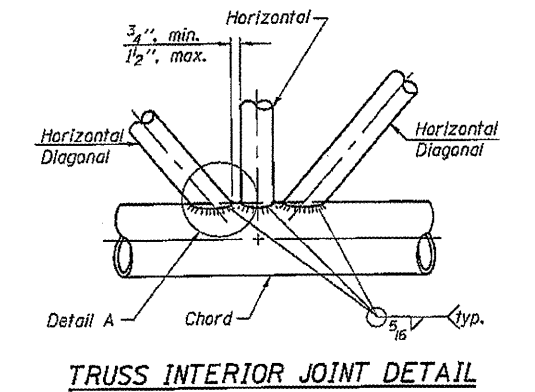
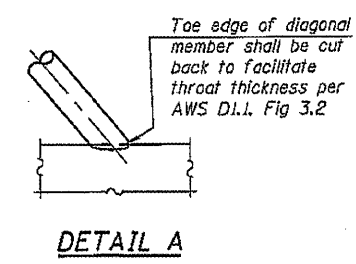
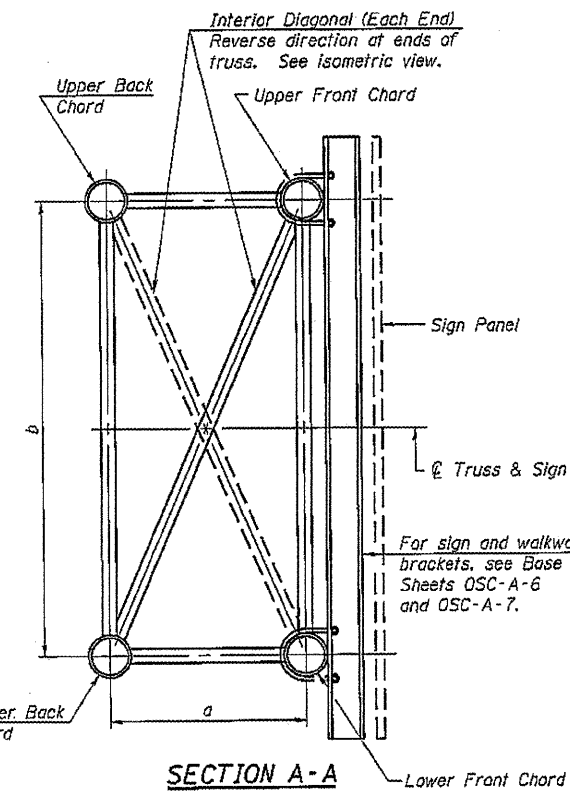
Note: There are twice as many horizontal diagonals as there are vertical diagonals.

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"	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"

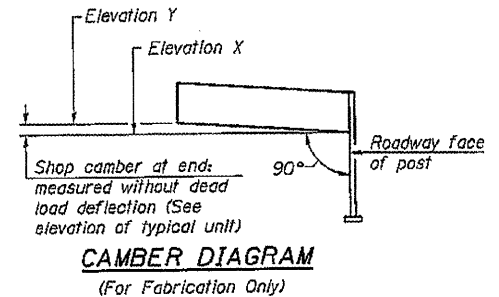
*P = $\frac{L-s-3''}{\# \text{ Panels}}$

Structure Number	Station	Truss Type	Design Length (L)	Number of Panels Per Unit	Panel Length (P)*
6C0841055L103.6	396+00	II-C-A	30'-0"	7	4'-0"
6C0841055L099.6	610+65	III-C-A	35'-0"	6	5'-6"
6C0841055L096.4	274+00	III-C-A	35'-0"	6	5'-6"
6C0841055R096.5	276+70	III-C-A	35'-0"	6	5'-6"



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"



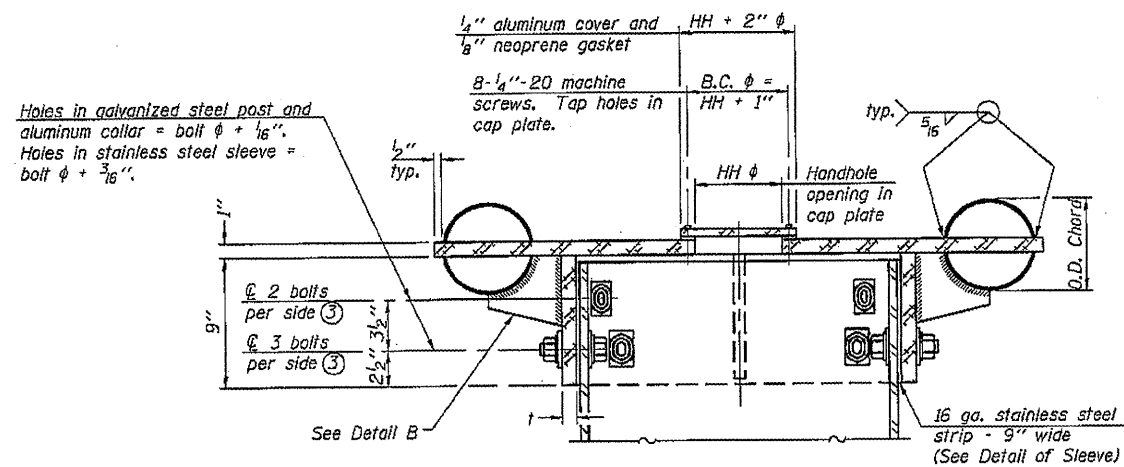
OSC-A-2 J-20-11

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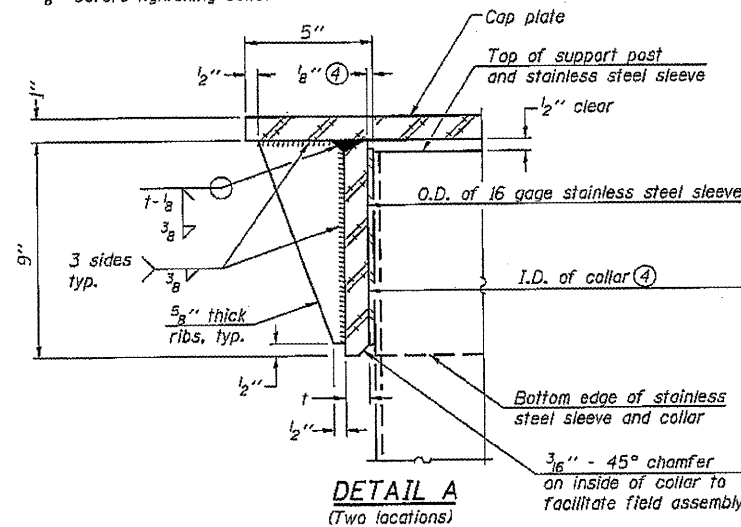
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - TRUSS DETAILS	
ALUMINUM TRUSS & STEEL POST	
SCALE:	SHEET NO. OF SHEETS STA. TO STA.

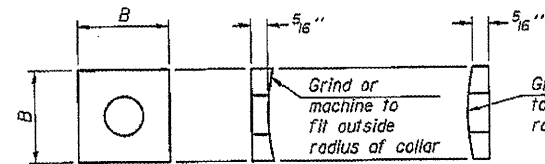
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Y&B	D-6_OVDOSINSIBBEL12-23	SANGAMON	33	17
CONTRACT NO. 46196				
ILLINOIS FED. AID PROJECT				



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



DETAIL A
(Two locations)

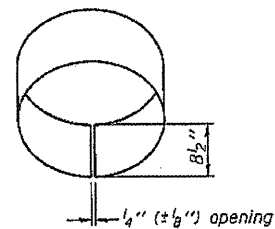


CONTOURED WASHERS

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"

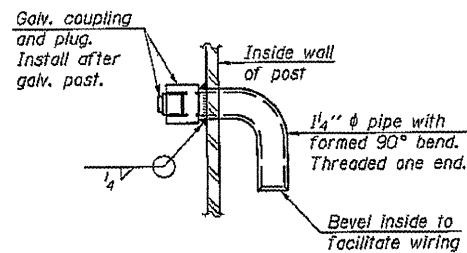
DETAIL OF STAINLESS STEEL SLEEVE

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

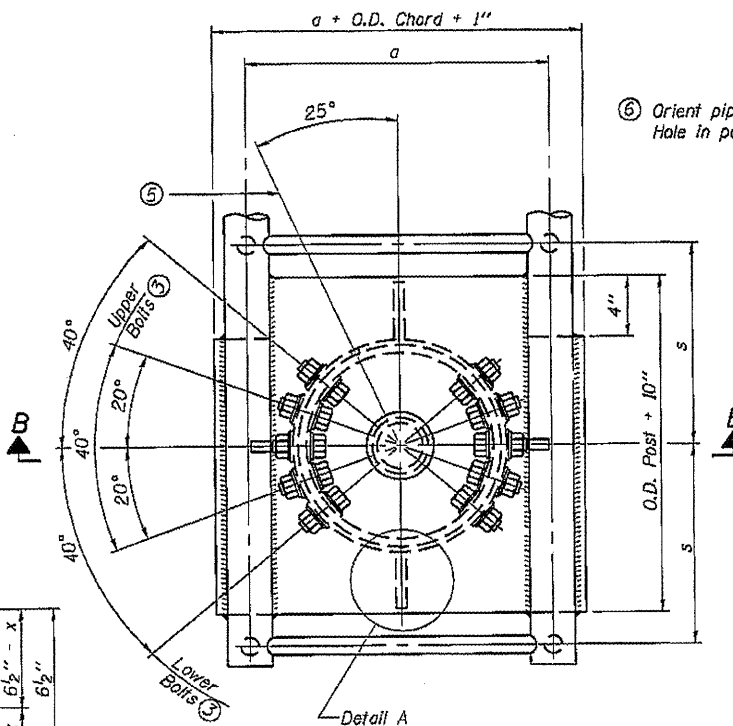


DETAIL B

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

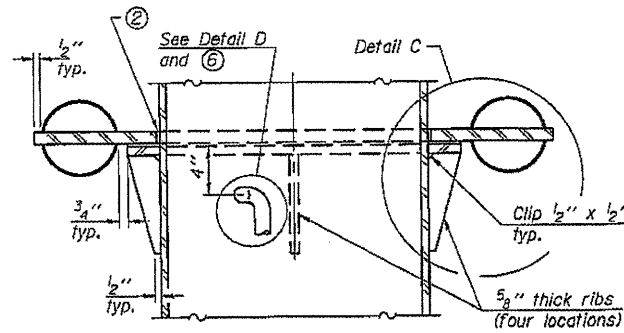


DETAIL D

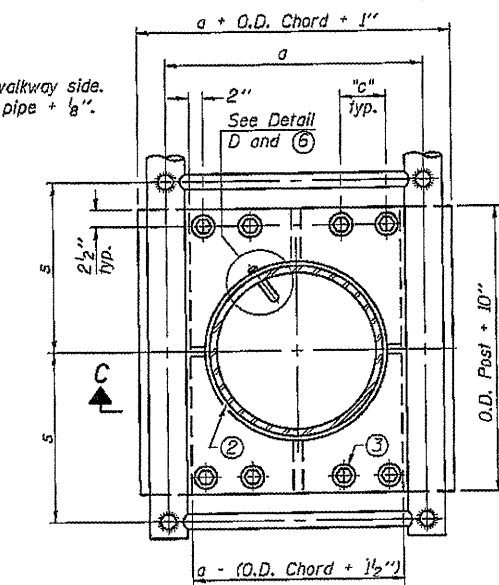


PLAN VIEW - TOP OF COLUMN

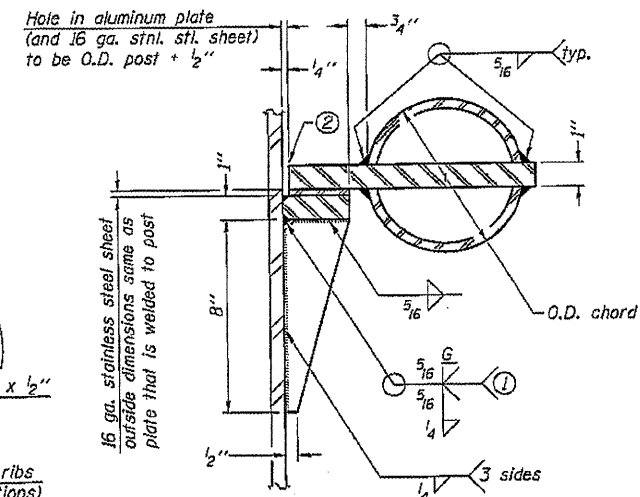
⑤ Optional full penetration weld in collar. (Two locations maximum... (180° apart)... X-ray or UT 100%)



SECTION C-C



SECTION THRU POST ABOVE LOWER CHORDS



DETAIL C

- Grind top if required to fully seat aluminum plate and stainless steel sheet.
- After tightening lower connection bolts, fill gap with non-hardening, silicone caulk suitable for exterior exposure and acceptable to the Engineer. Cast is included in Overhead Sign Structure Cantilever.
- 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 Juncture Bolt Spacing Dimension "c" ③	Opening in Cap Plate "HH"	Collar Thickness (t)	Side Ribs	
						x	y
I-C-A	16" φ (83#/'')	7/8"	3 1/4"	8"	5/8"	1 3/4"	2 1/4"
II-C-A	24" φ (125#/'')	1"	3 1/2"	12"	7/8"	2"	1 1/4"
III-C-A (35' max.)	24" φ (125#/'')	1 1/4"	3 1/2"	12"	7/8"	2"	1"
III-C-A (>35' to 40')	24" φ (171#/'')	1 1/4"	3 1/2"	12"	7/8"	2"	1"

OSC-A-3

1-20-11

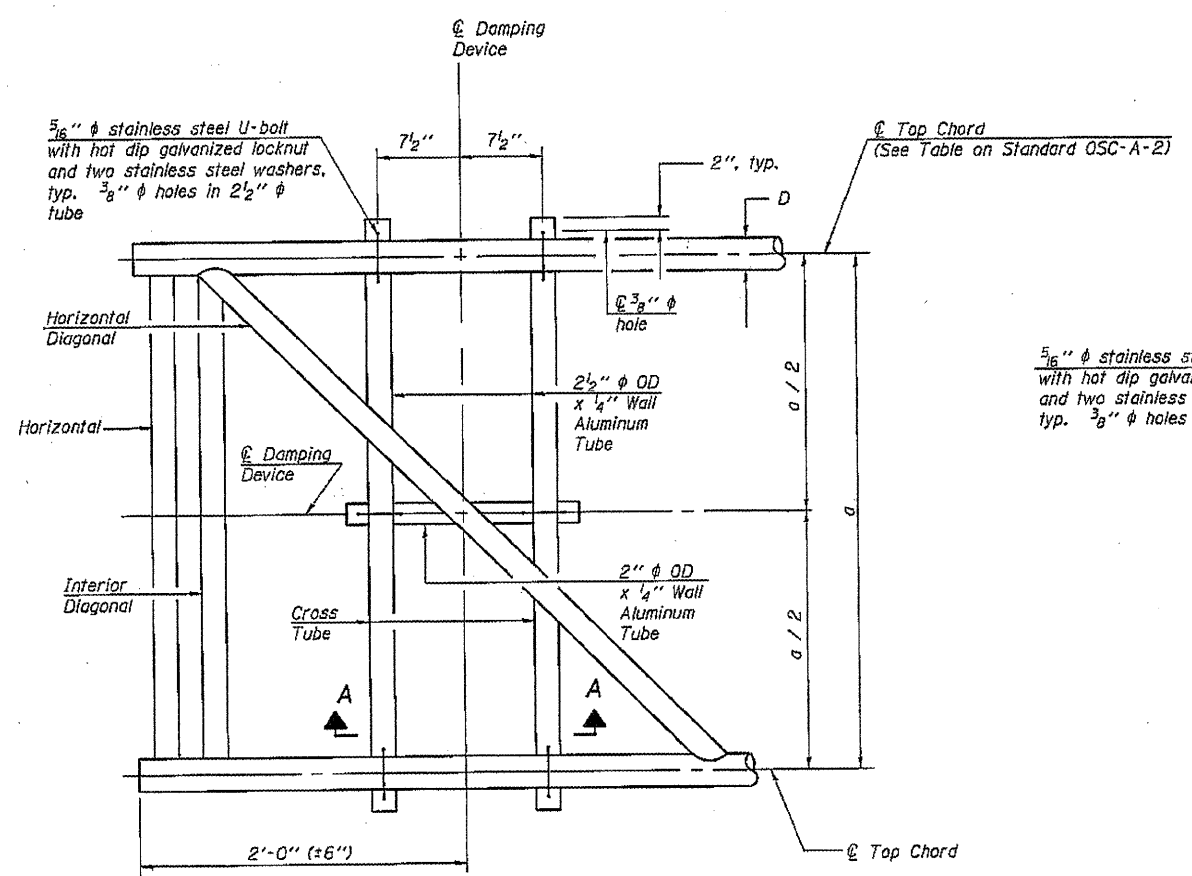
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		DATE	REVISIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

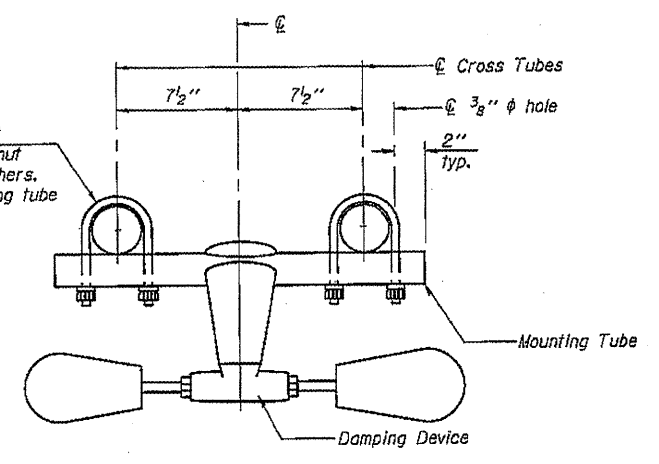
CANTILEVER SIGN STRUCTURES - JUNCTURE DETAILS
ALUMINUM TRUSS & STEEL POST

SCALE: SHEET NO. OF SHEETS STA. TO STA.

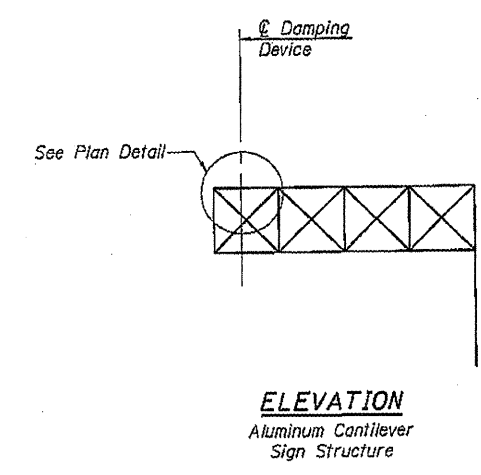
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-6_OVDSINSIBBEEL12-23	SANGAMON	33	18
CONTRACT NO. 46196			ILLINOIS FED. AID PROJECT	



PLAN DETAIL

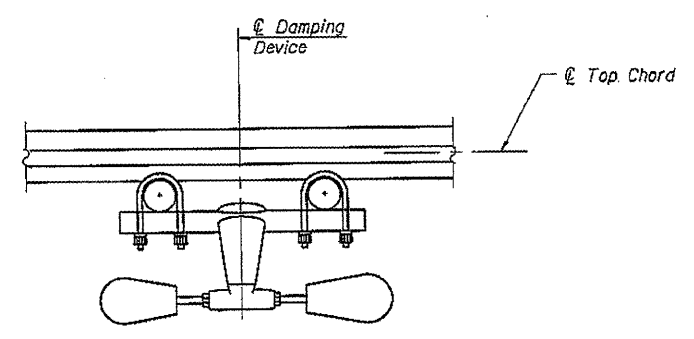


TRUSS DAMPING DEVICE CONNECTION DETAIL

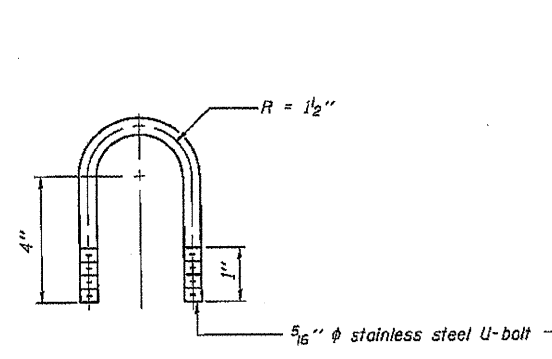


ELEVATION
Aluminum Cantilever Sign Structure

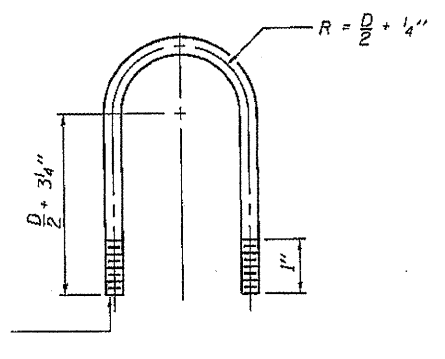
GENERAL NOTES
 Damper: One damper per truss. (3 lbs. Stockbridge-Type Aluminum-29" minimum between ends of weights)
 Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6



SECTION A-A



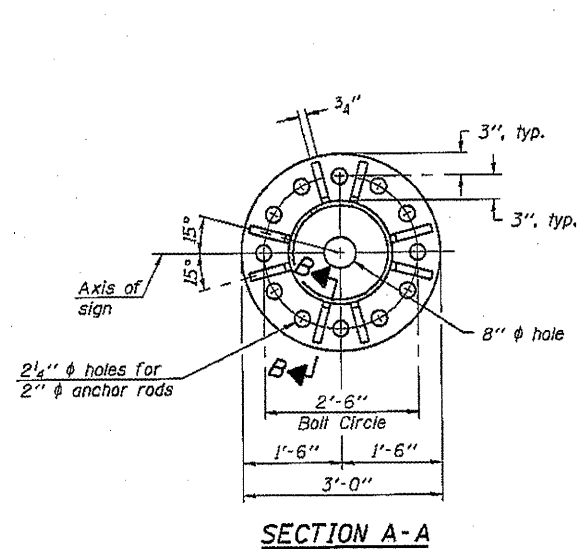
DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL
(Typical)



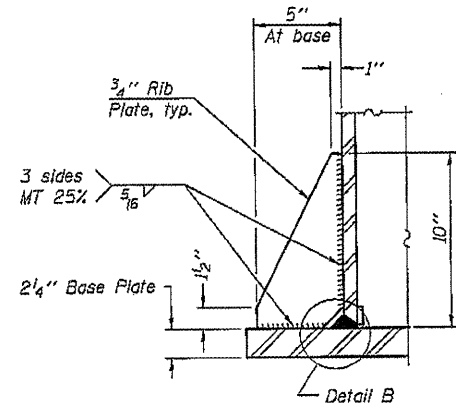
TOP CHORD TO CROSS TUBE U-BOLT DETAIL
(Typical)

FILE NAME =		USER NAME = kelleyjh	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CANTILEVER SIGN STRUCTURE		F.A. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
S:\Sign Truss Plan Details\46196\46196.dgn		DRWN	CHKD	REVISED		DAMPING DEVICE		VAR 0-6_OVD5INSIBREPL12-23	SANGAMON	33	19	
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PLOT DATE = Sep-30-2011 10:30:26AM		DATE -	REVISED -	REVISED -		ILLINOIS FED. AID PROJECT						

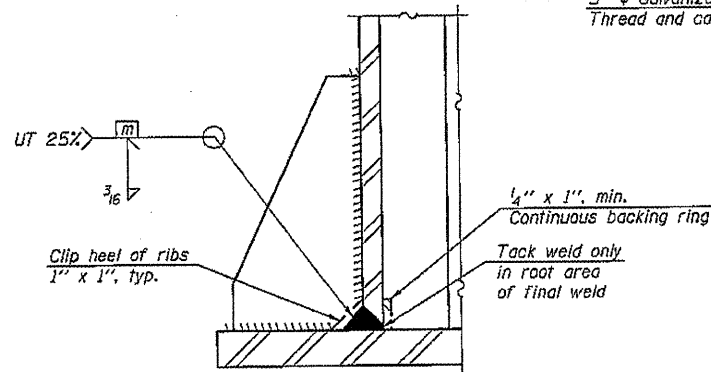
OSC-A-D 1-20-11



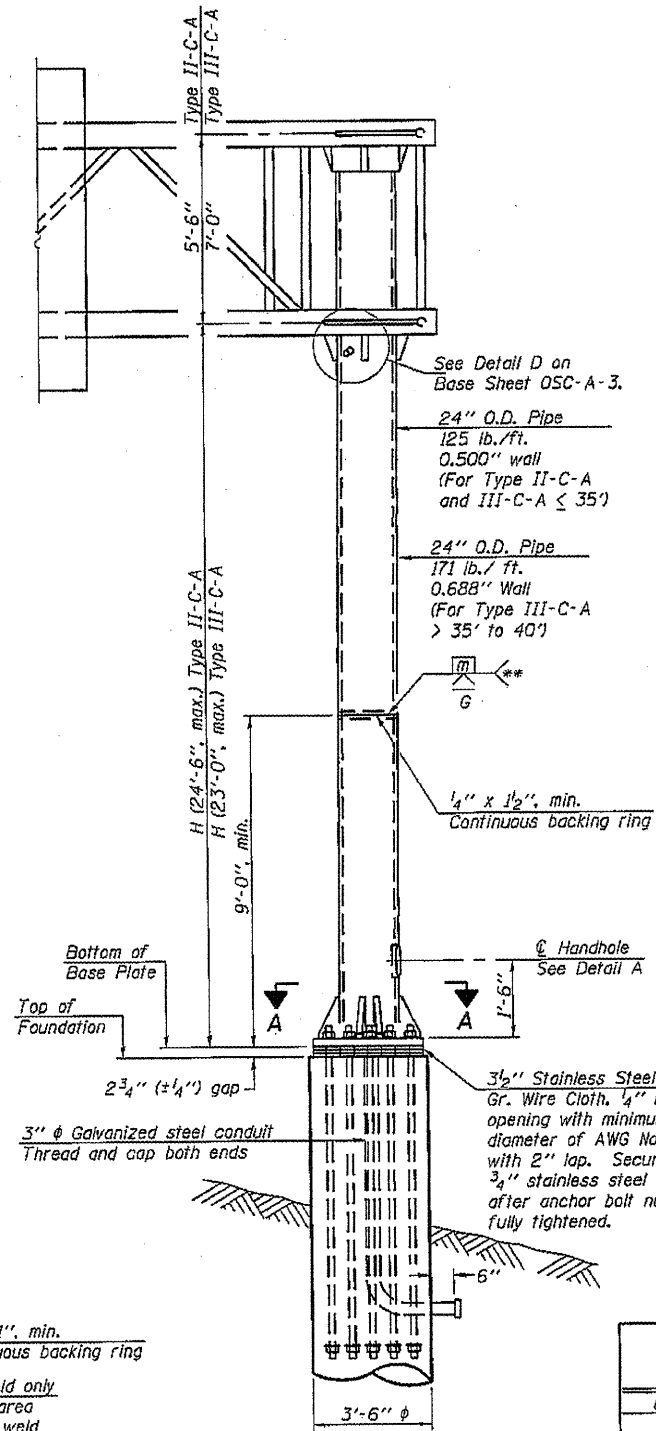
SECTION A-A



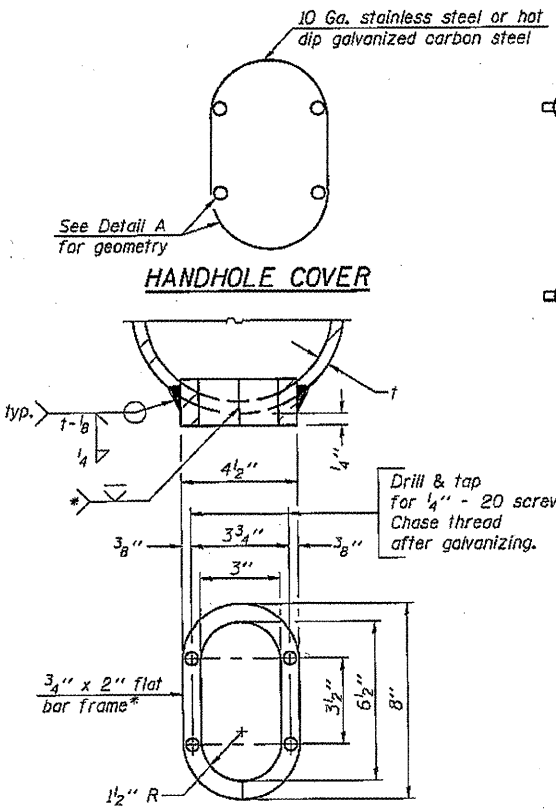
SECTION B-B



DETAIL B
(Typical rib)



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



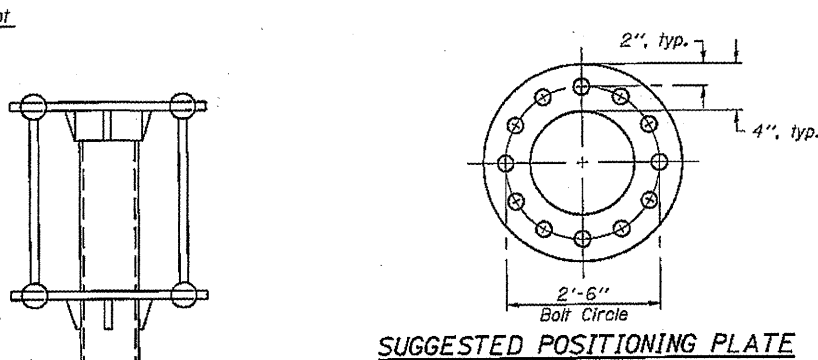
DETAIL A

* 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 500 μ in or less.

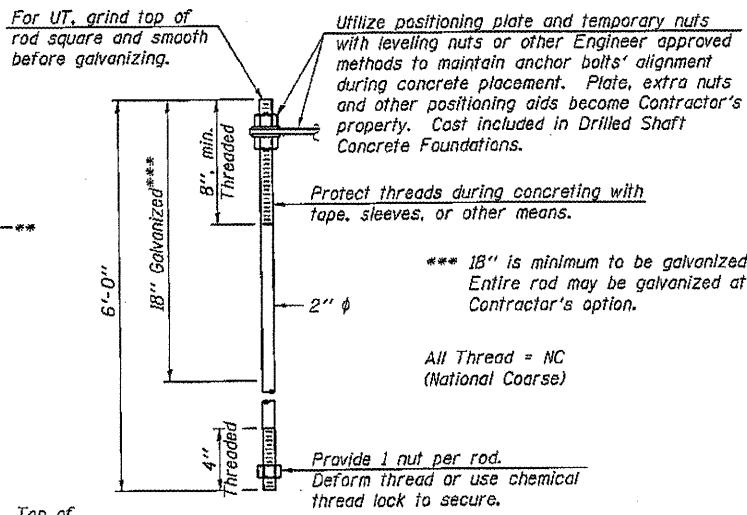
** Butt welded joint in post is only allowed for post heights (H) over 20 ft. in length. If used, weld procedure must be preapproved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

Structure Number	Station	H
6C0841055L103.6	396+00	24'-6"
6C0841055L099.6	610+65	21'-4"
6C0841055L096.4	274+00	23'-0"
6C0841055R096.5	276+70	22'-7"

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, using a straight beam, 1/2" ϕ 3.5 mhz. transducer, to insure no rejectable flaws exist in the upper 18" (tension criteria). Cost of testing included in Drilled Shaft Concrete Foundations.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

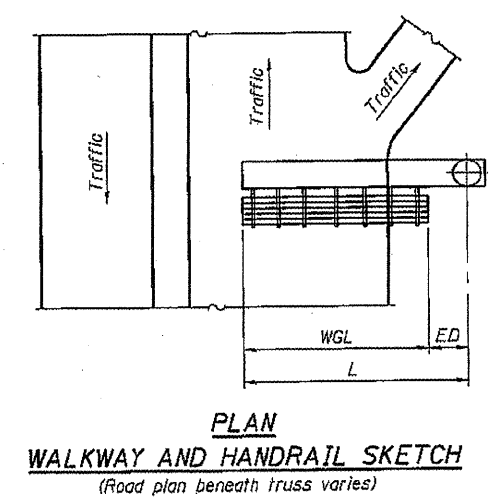
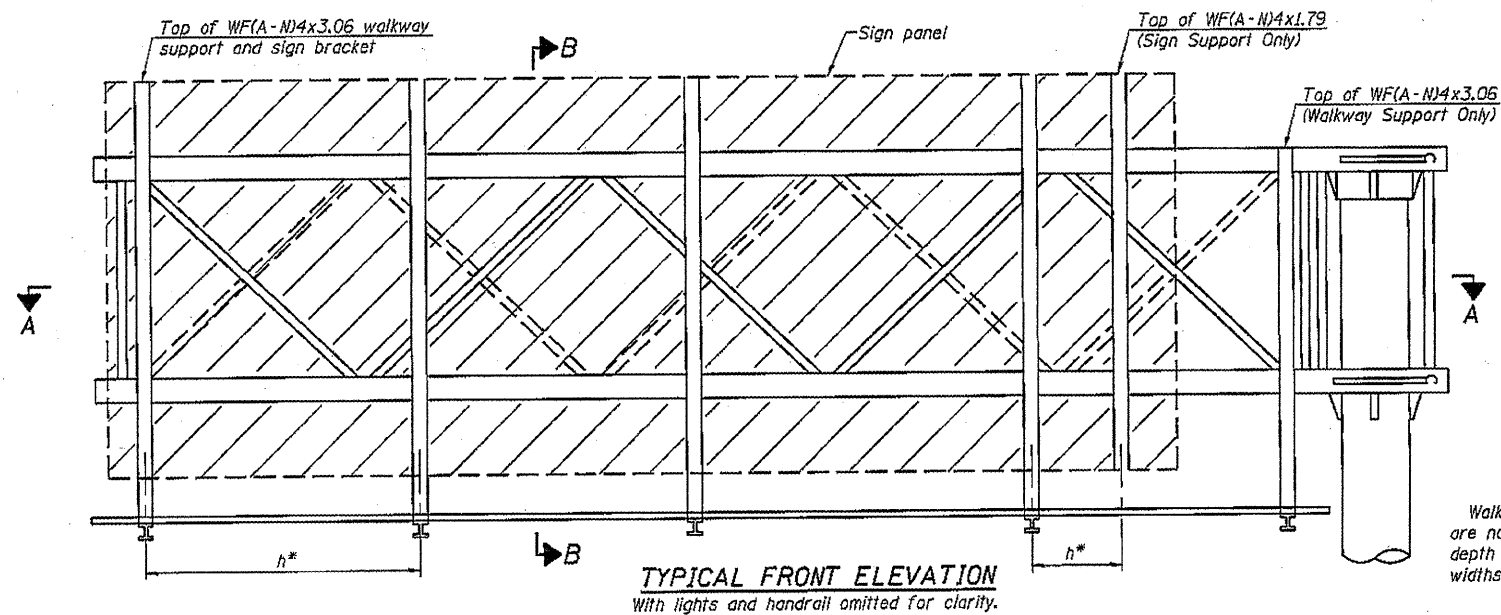
CANTILEVER SIGN STRUCTURES - TYPE II-C-A & III-C-A
TRUSS SUPPORT POST - ALUMINUM TRUSS & STEEL POST

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR 0-6	QVDSINSIBRELL12-23	SANGAMON	33	20
				CONTRACT NO. 46196
ILLINOIS FED. AID PROJECT				

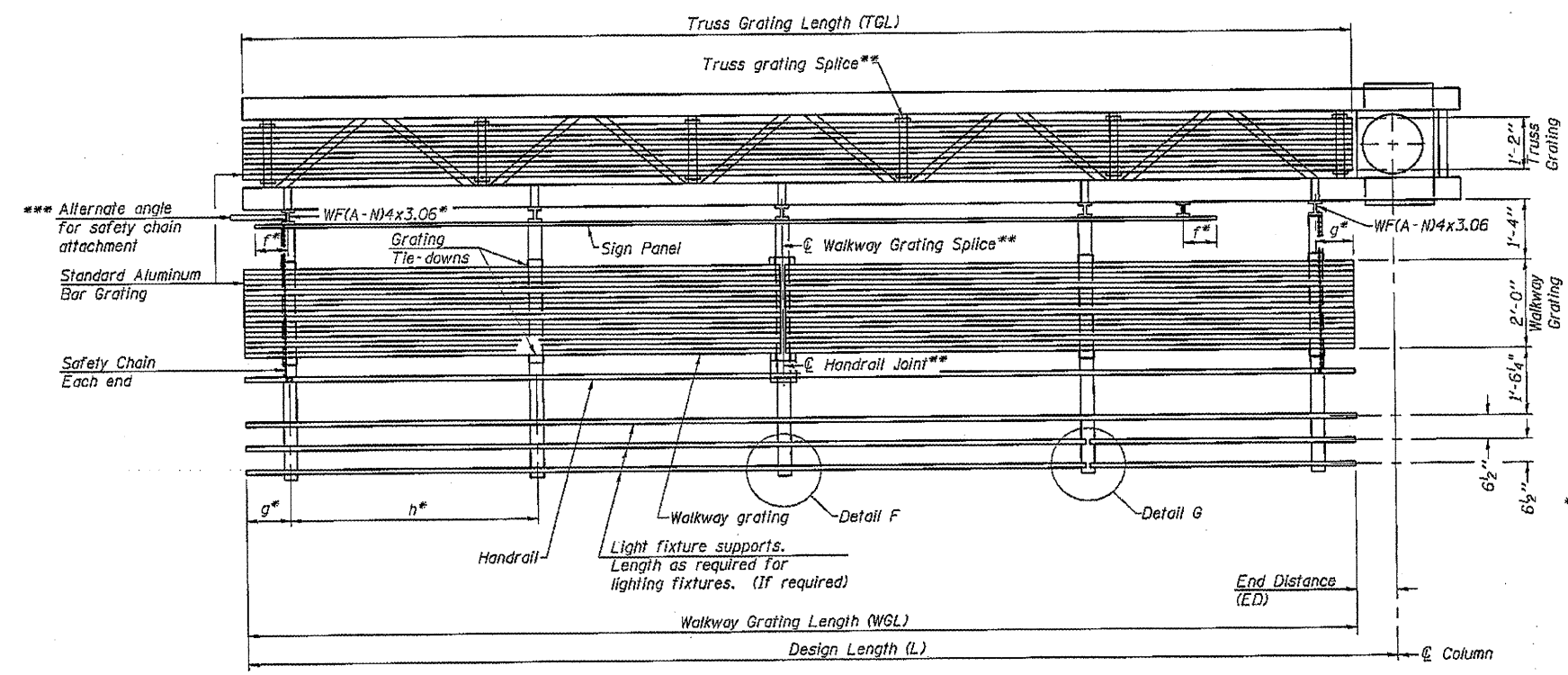
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		CHECKED -	REVISED -
		DATE -	REVISED -

SCALE: _____ SHEET NO. _____ OF _____ SHEETS STA. _____ TO STA. _____



Walkway and truss grating dimensions are nominal and may vary (width ± 1/2", depth ± 1/2") based on available standard widths.



Structure Number	Station	WGL	ED	TGL
6C0841055L103.6	396+00	17'-0"		17'-0"
6C0841055L099.6	610+65	17'-0"		17'-0"
6C0841055L096.4	274+00	20'-0"		20'-0"
6C0841055R096.5	276+70	22'-0"		22'-0"

Notes:
 Space walkway brackets WF(A-N)4x3.06 and sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:
 f = 12" maximum, 4" minimum (End of sign to center of nearest bracket)
 g = 12" maximum, 4" minimum (End of walkway to center of nearest bracket)
 h = 6'-0" maximum (center to center sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)
 *** If walkway bracket at safety chain location is behind sign, add angle to bracket. See alternate safety chain attachment on base sheet OSC-A-8.
 For details of sign placement, sign/walkway brackets, truss and walkway gratings, grating splices and Section B-B, see Base Sheet OSC-A-7.
 For details of handrail, handrail joint, safety chain and Details F and G, see Base Sheet OSC-A-8.

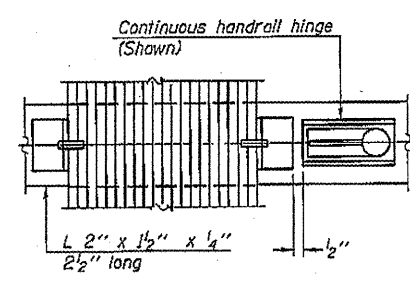
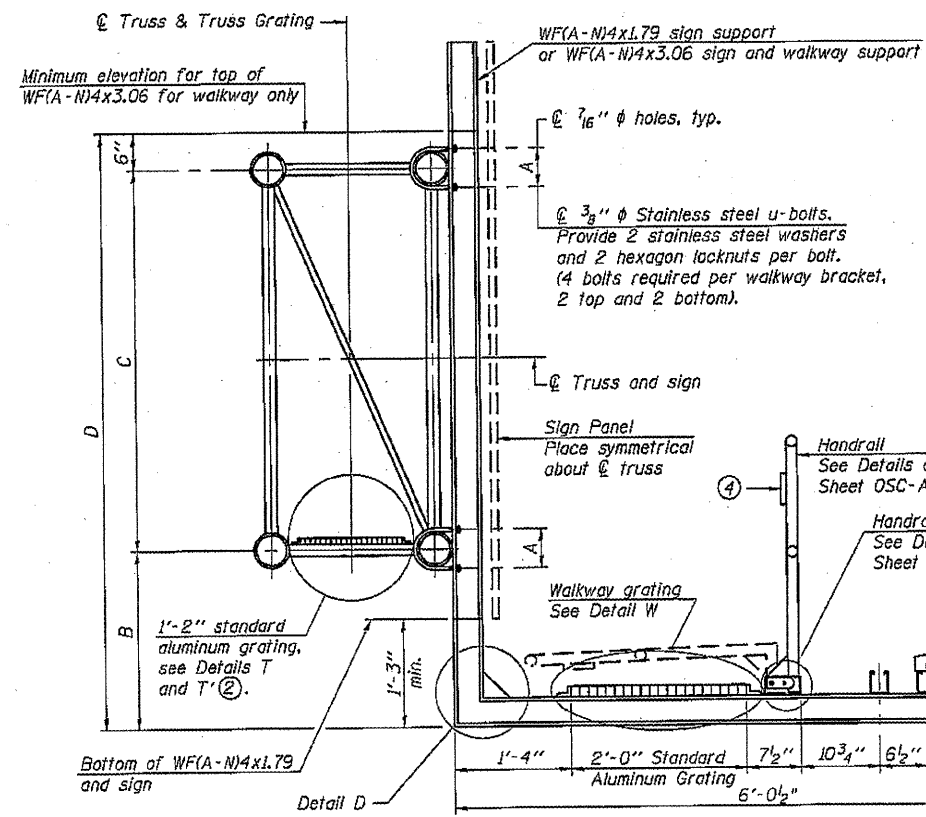
Truss grating to facilitate inspection shall run full length of cantilevers. Cost of truss grating is included in Overhead Sign Structure Cantilever.

Handrail and walkway grating shall span a minimum of three brackets between splices.
 ** Use and location of handrail joints or grating splices are optional, based on lengths needed and material availability.

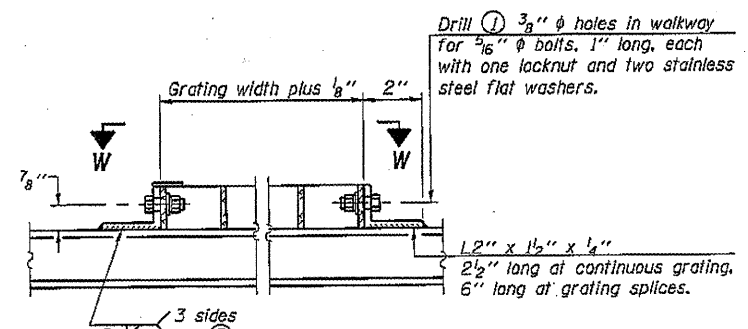
$$TGL = L - \left(\frac{\text{Post O.D.}}{2} + 6'' \right)$$

BRACKET TABLE

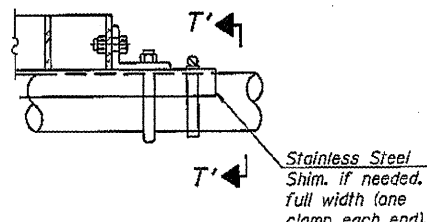
Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
	8'-0"	2
8'-0"	14'-0"	3
14'-0"	20'-0"	4
20'-0"	26'-0"	5
26'-0"	32'-0"	6



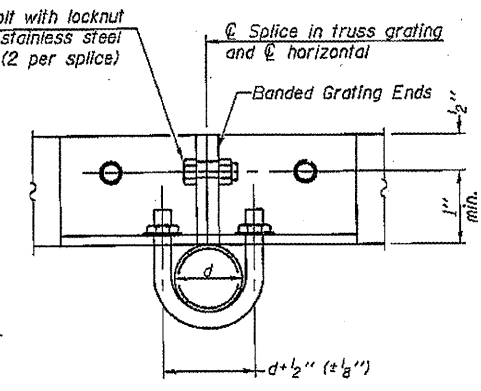
SECTION W-W
(AT WALKWAY GRATING SPLICE)



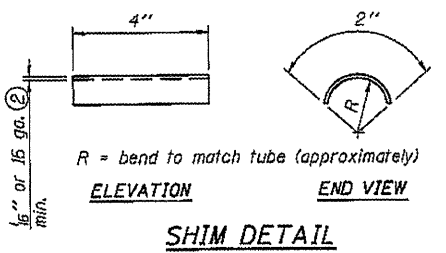
DETAIL W
(Walkway grating)



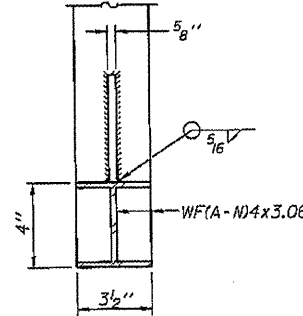
DETAIL T'
(Truss grating splice)



SECTION T'-T'

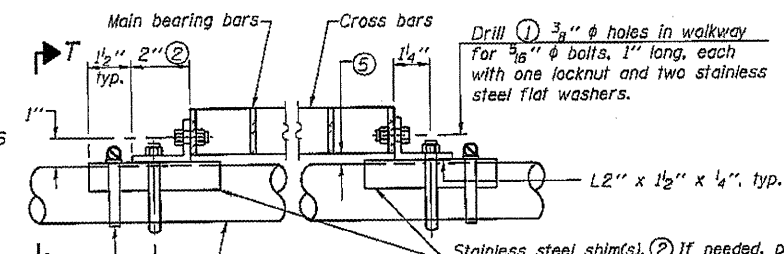


SHIM DETAIL

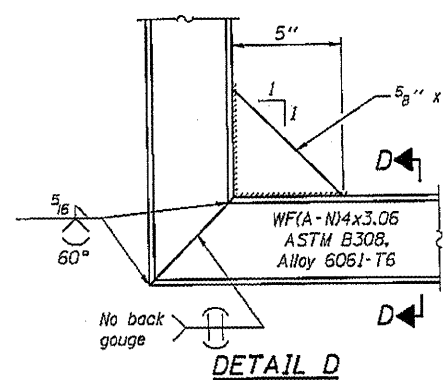


SECTION B-B

Sign shall be even with the top of the bracket, but it may extend no more than 6" above the top of the bracket for field adjustments.



SECTION D-D



DETAIL D

DETAIL T
(Continuous Truss grating)

Structure Number	Station	A	⑥ B	C	⑥ D
6C0841055L103.6	396+00	4 ¹⁵ / ₁₆ "	1'-9"	5'-6"	7'-9"
6C0841055L099.6	610+65	5 ⁵ / ₁₆ "	2'-3"	7'-0"	9'-9"
6C0841055L096.4	274+00	5 ⁵ / ₁₆ "	2'-3"	7'-0"	9'-9"
6C0841055R096.5	276+70	5 ⁵ / ₁₆ "	2'-3"	7'-0"	9'-9"

- Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
- If Handrail Joint present, weld angle to WF(A-N)4 and 1/4" extension bars. (See Base Sheet OSC-A-8.)
- 1/2" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.
- Tube to grating gap may vary from 0 to 1/2", max. to align walkway, allow for camber, etc.
- Based on actual sign height. D_s given on OSC-A-1.

SPECIFICATIONS FOR STANDARD ALUMINUM GRATING
 Main Bearing Bars (MBB) shall be 3/16" x 1 1/2" on 1 3/8" centers and conform to ASTM B221 Alloy 6061-T6.
 Cross bars (CB) shall be 3/16" x 1 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR
 Aluminum Grating with modified "4" sections for main bearing bars shall meet the following requirements:
 Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.³ per bar, a depth of 1 1/2", spaced on 1 3/8" centers.
 Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

OSC-A-7 1-20-11

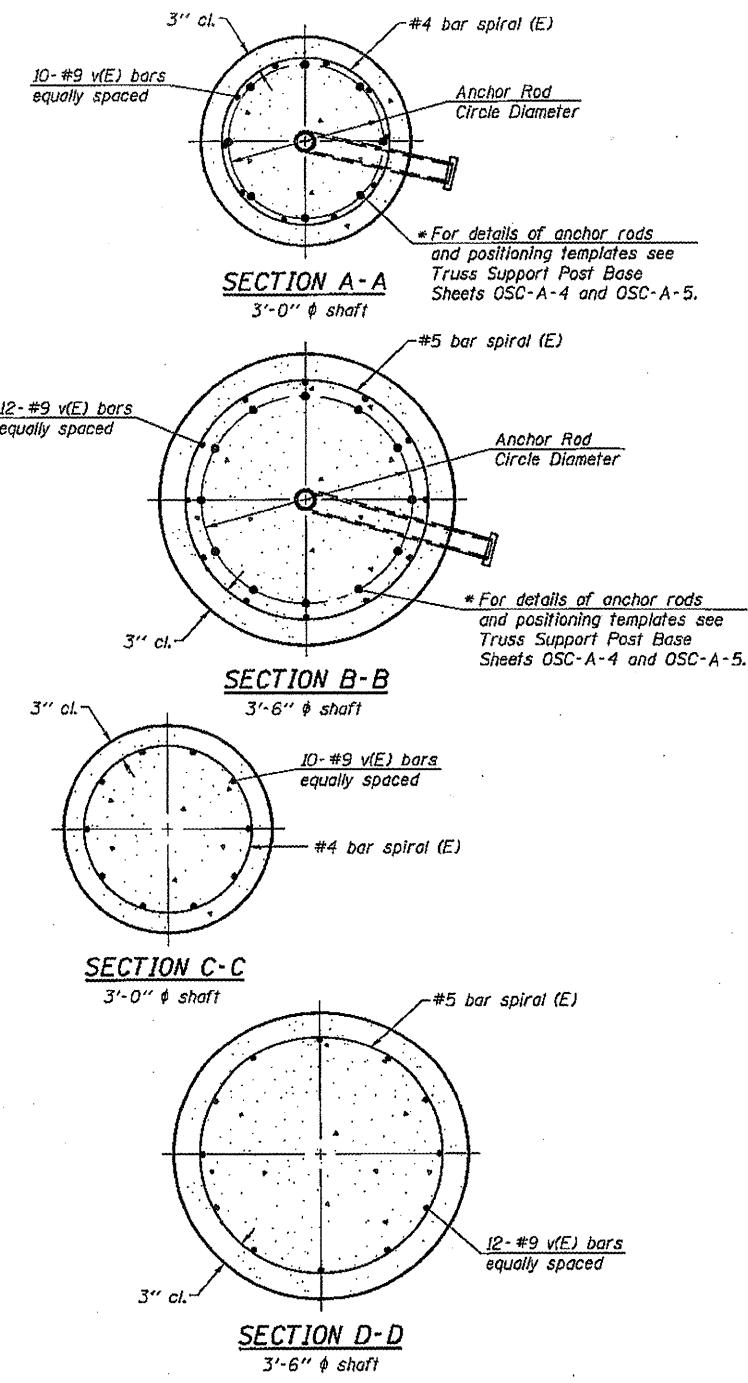
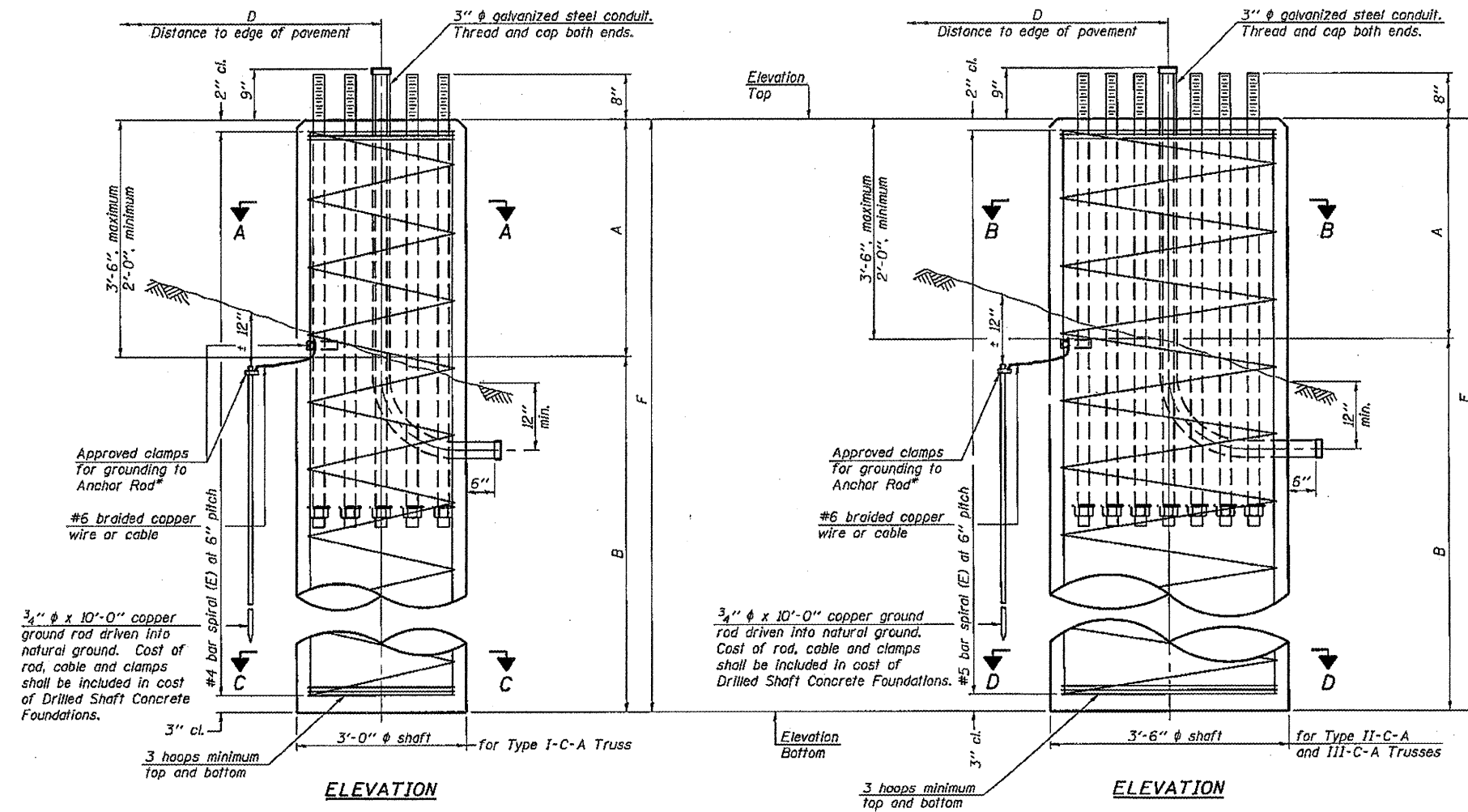
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PLOT DATE = Sep-30-2011 10:31:34AM	DATE -	REVISIONS -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - WALKWAY DETAILS
 ALUMINUM TRUSS & STEEL POST
 SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	Q:6_QVQ5INSI8BEEL12-23	SANGAMON	33	22
CONTRACT NO. 46196			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 (Ou) 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 Bridge Seal 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 (in)	"B" Depth (ft)	Anchor Rods No.	Anchor Rod Diameter (in)	Anchor Rod Circle 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	Ou	A	B	F	Class DS Concrete Cubic Yards
6C0841055L103.6	396+00	II-C-A	3'-6"	570.60	N/A		3'-6"	17'-0"	20'-6"	7.3
6C0841055L099.6	610+65	III-C-A	3'-6"	609.41	N/A		3'-6"	19'-0"	22'-6"	8.0
6C0841055L096.4	274+00	III-C-A	3'-6"	594.62	N/A		3'-6"	19'-0"	22'-6"	8.0
6C0841055R096.5	276+70	III-C-A	3'-6"	590.74	N/A		3'-6"	22'-0"	25'-6"	9.1

OSC-A-9 1-20-11

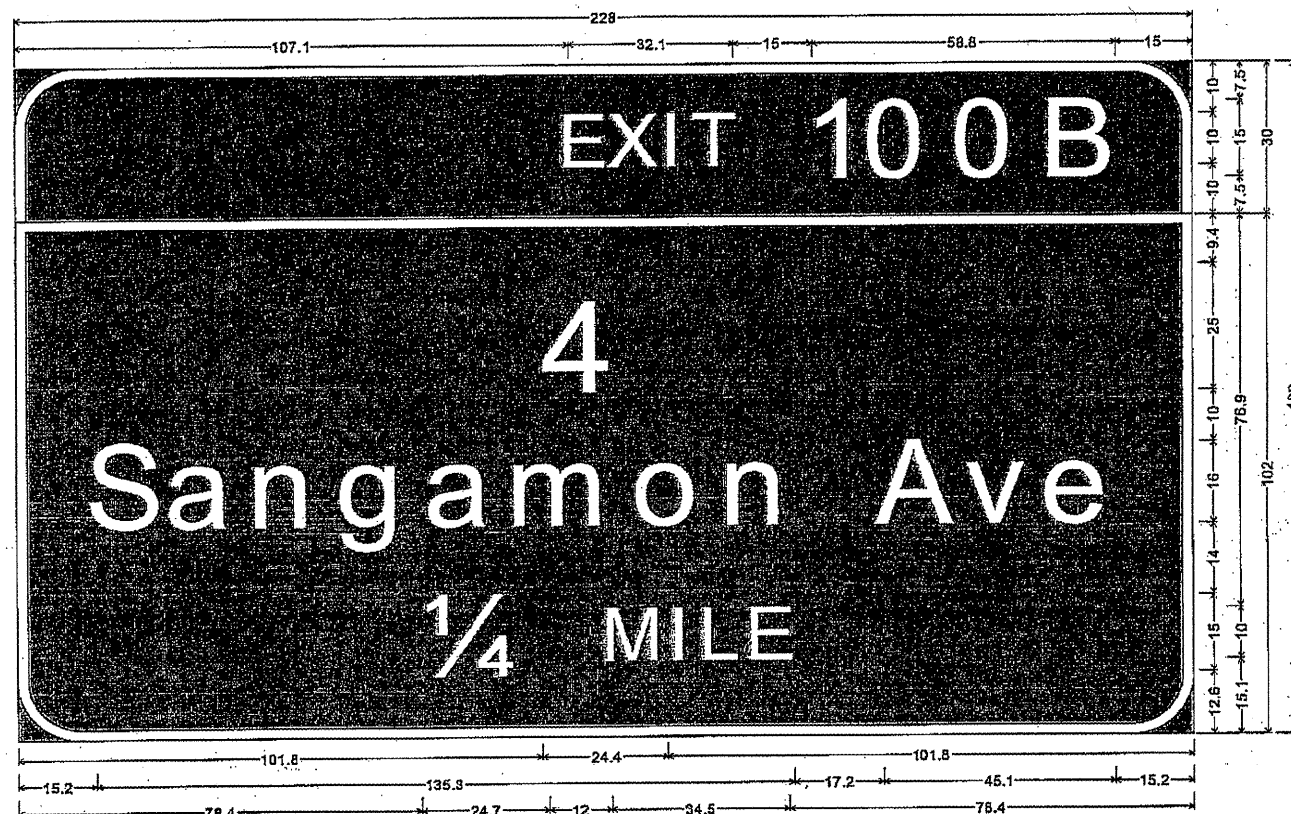
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - DRILLED SHAFT
 ALUMINUM TRUSS & STEEL POST

F.A. RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-6 OVDOSINSTRREPL12-23	SANGAMON	33	23
ILLINOIS FED. AID PROJECT			CONTRACT NO. 96146	

6S084I055R099.4



12.0" Radius, 2.0" Border, White on Green;
 "EXIT 100B" ClearviewHwy-5-W;
 12.0" Radius, 2.0" Border, White on Green;
 Symbol RA010; "Sangamon Ave" ClearviewHwy-5-W; "1/4 MILE" ClearviewHwy-5-W;

6S084I055R099.4



12.0" Radius, 2.0" Border, White on Green;
 "EXIT 100A" ClearviewHwy-5-W;
 12.0" Radius, 2.0" Border, White on Green;
 "EAST" ClearviewHwy-5-W; "Clinton" ClearviewHwy-5-W; Standard Arrow Custom 31.1" X 18.8" 45°;

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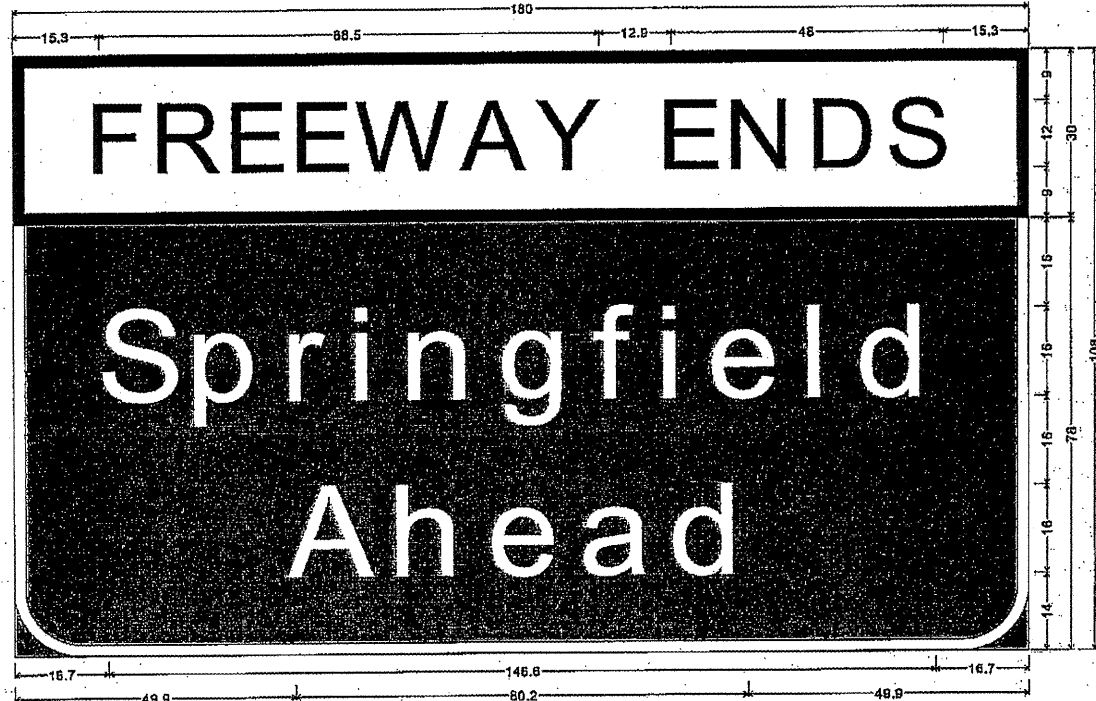
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS

SCALE: _____ SHEET NO. ____ OF ____ SHEETS | STA. _____ TO STA. _____

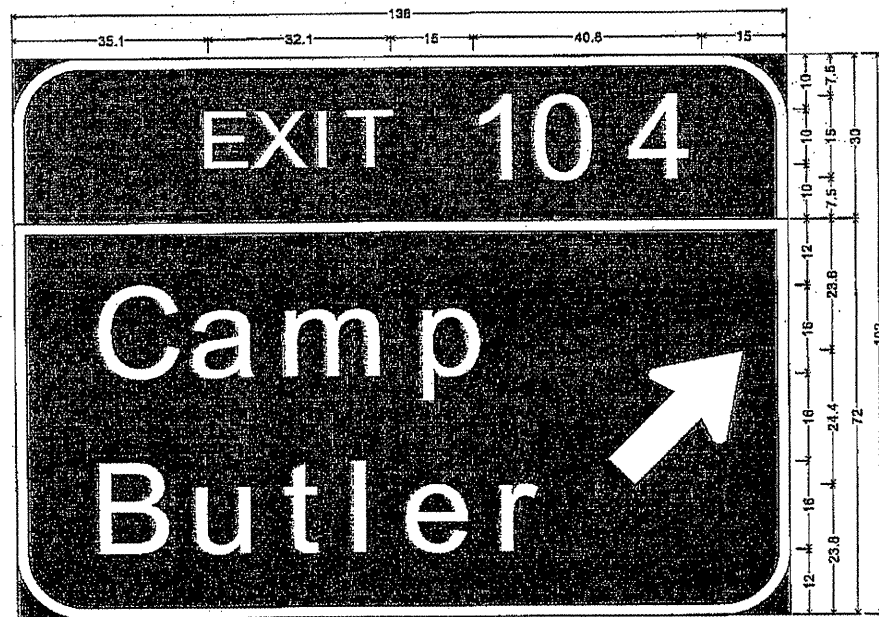
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CONTRACT NO. 46196			ILLINOIS FED. AID PROJECT	

6S0841072L104.2



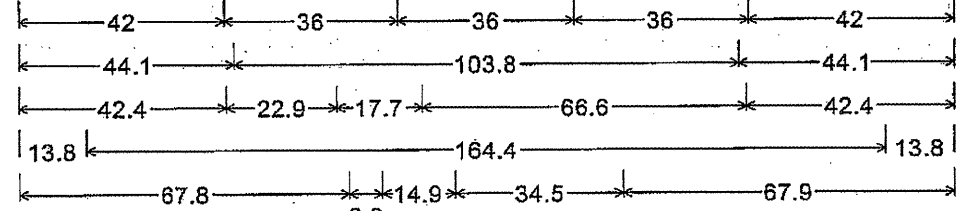
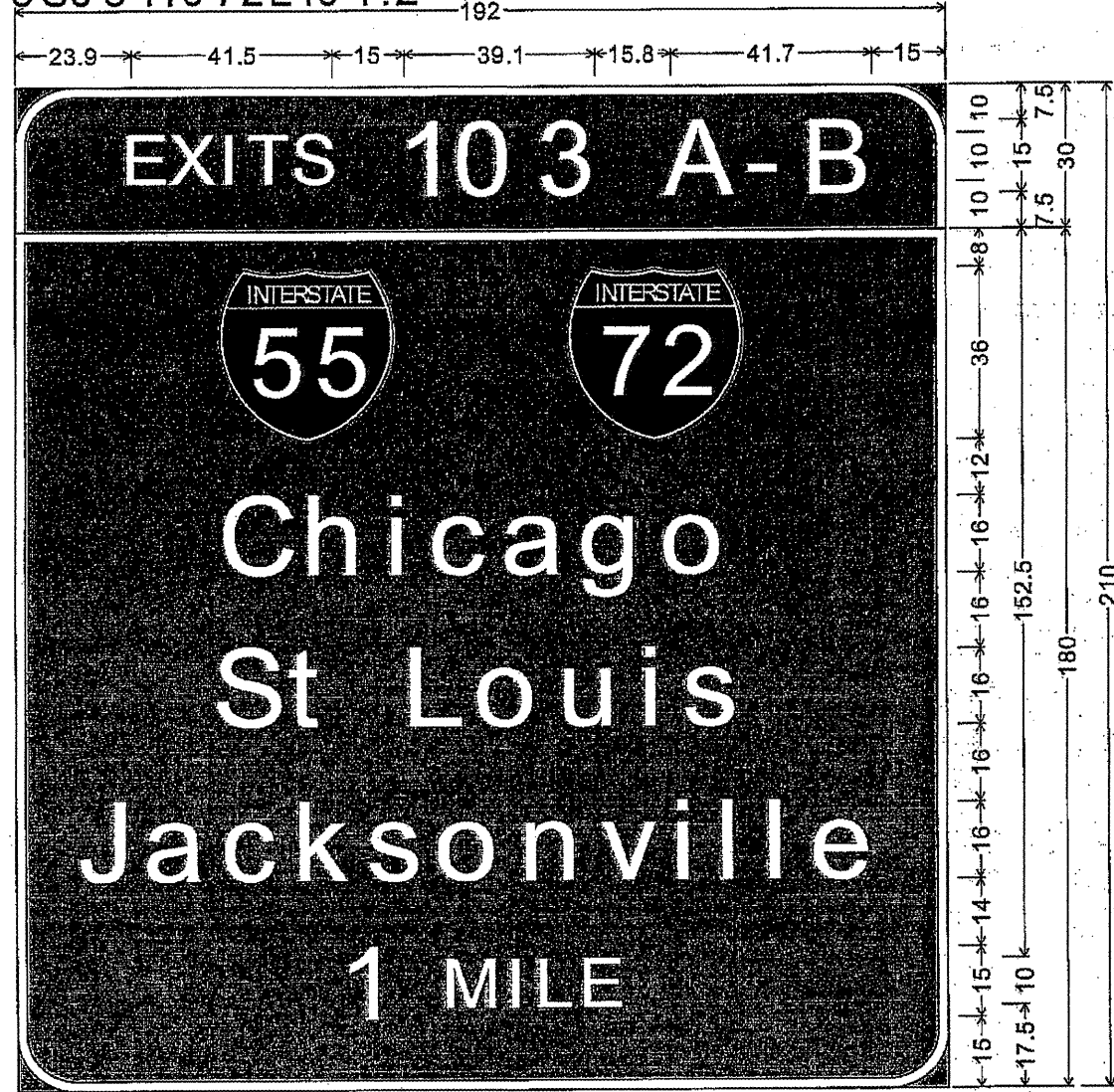
9.0" Radius, 2.0" Border, Black on Yellow;
 "FREEWAY ENDS" ClearviewHwy-5-W;
 12.0" Radius, 2.0" Border, White on Green;
 "Springfield" ClearviewHwy-5-W; "Ahead" ClearviewHwy-5-W;

6S0841072L104.2



12.0" Radius, 2.0" Border, White on Green;
 "EXIT 104" ClearviewHwy-5-W;
 12.0" Radius, 2.0" Border, White on Green;
 "Camp" ClearviewHwy-5-W; "Butler" ClearviewHwy-5-W; Standard Arrow Custom 31.1" X 18.8" 45";

6S0841072L104.2



12.0" Radius, 2.0" Border, White on Green;
 "EXITS 103 A-B" ClearviewHwy-5-W;
 12.0" Radius, 2.0" Border, White on Green;
 "Chicago" ClearviewHwy-5-W; "St Louis" ClearviewHwy-5-W;
 "Jacksonville" ClearviewHwy-5-W; "1 MILE" ClearviewHwy-5-W;

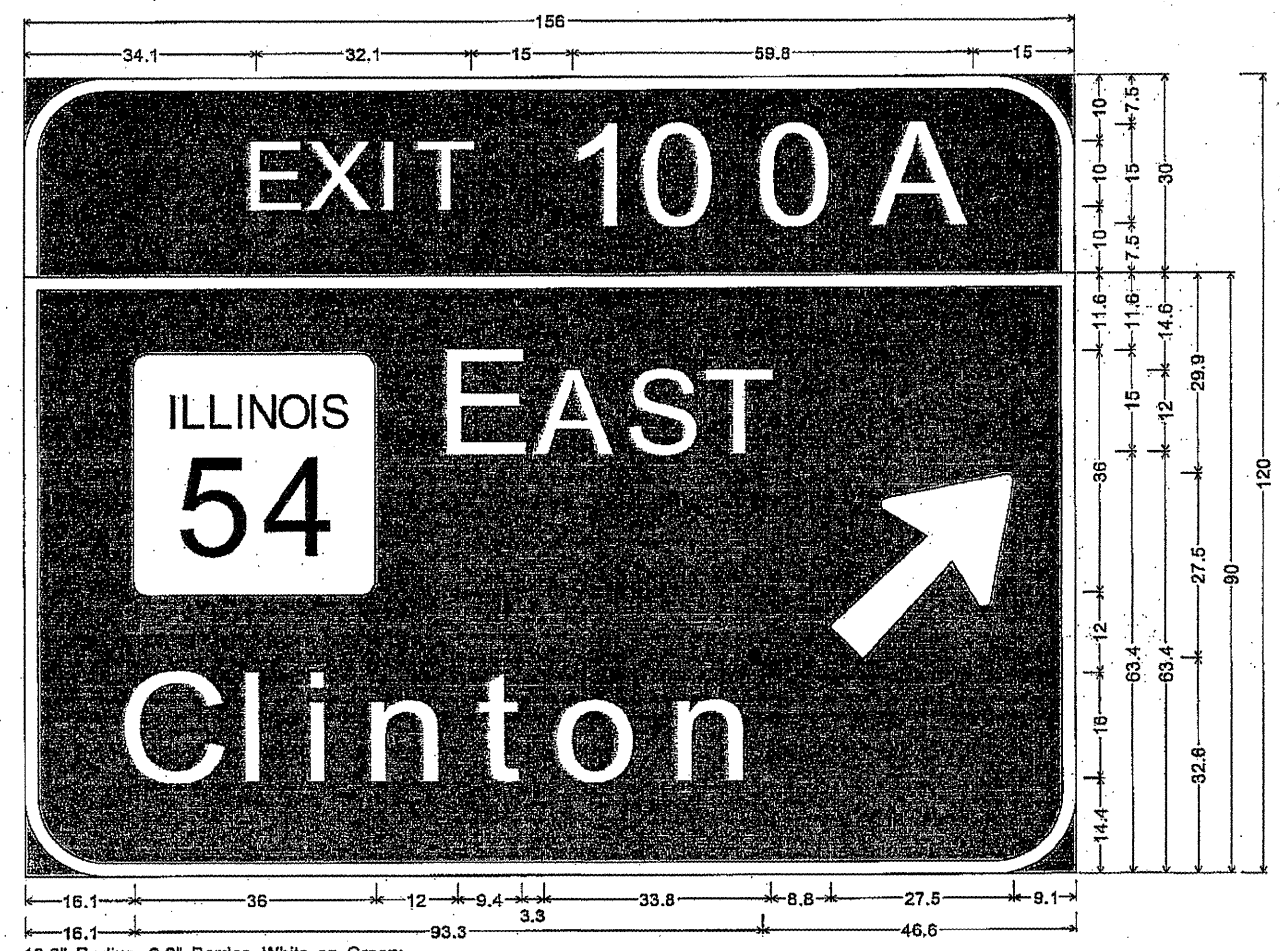
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PLOT DATE = Sep-30-2011 02:11:24PM	DATE -	REVISED -	REVISED -		ILLINOIS FED. AID PROJECT							

6C0841055L103.6



6.0" Radius, 2.0" Border, White on Blue;
 "REST" ClearviewHwy-5-W; "AREA" ClearviewHwy-5-W; Standard Arrow Custom 35.8" X 21.6" 45°;

6C0841055L099.6



12.0" Radius, 2.0" Border, White on Green;
 "EXIT 100A" ClearviewHwy-5-W;
 12.0" Radius, 2.0" Border, White on Green;
 "E AST" ClearviewHwy-5-W; "Clinton" ClearviewHwy-5-W; Arrow 160 - 35.0" 45°;

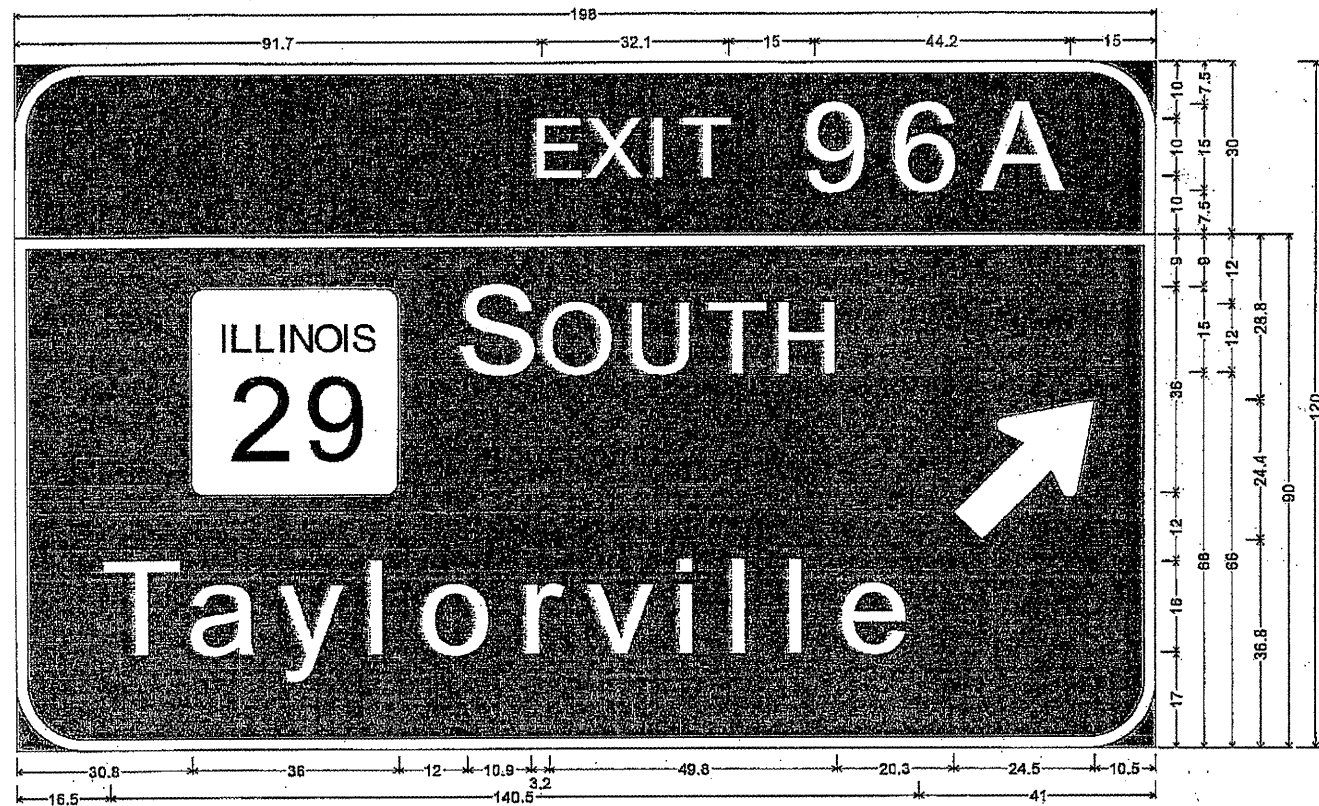
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SIGN PANEL DETAILS			
SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	

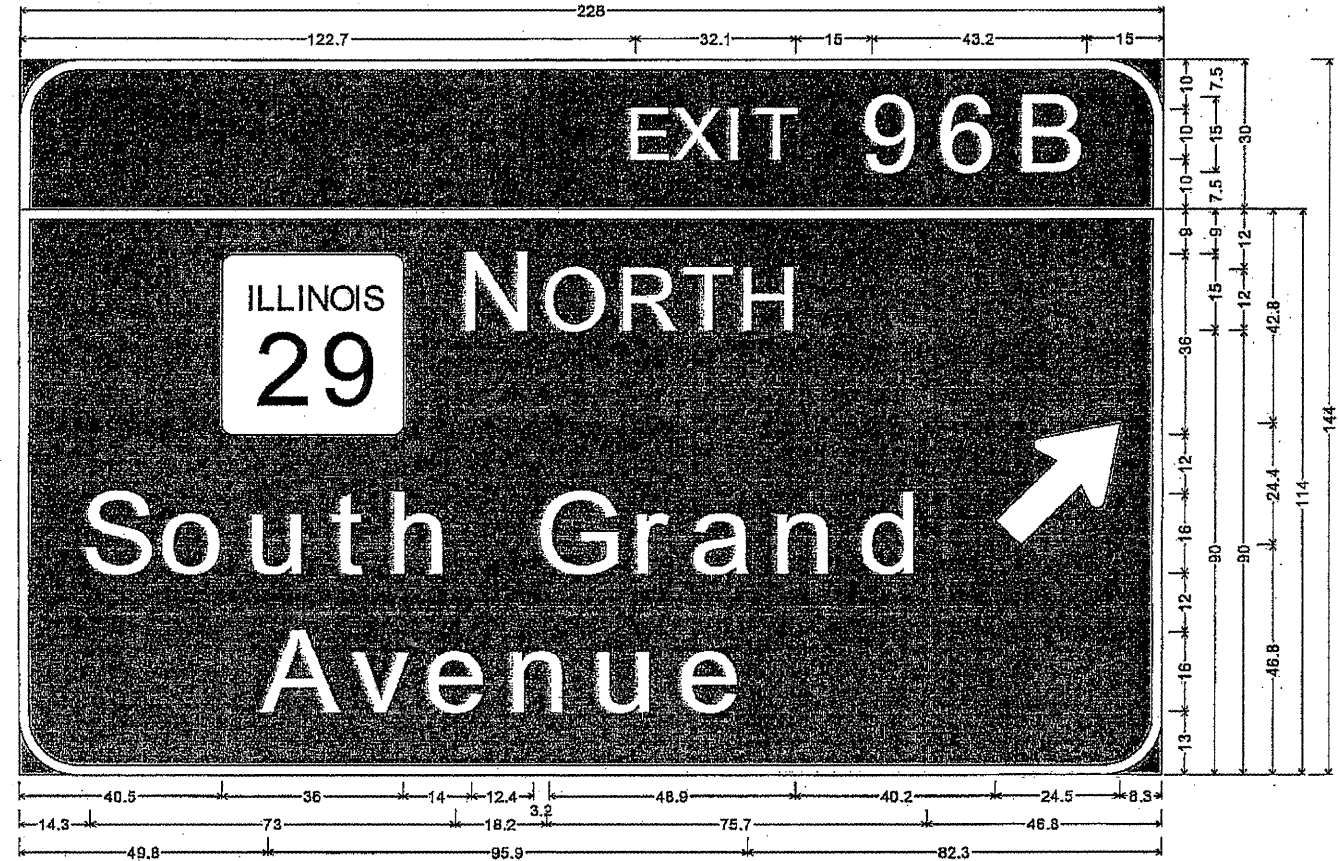
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CONTRACT NO. 46196			ILLINOIS FED. AID PROJECT	

6C0841055L096.4



12.0" Radius, 2.0" Border, White on Green;
 "EXIT 96A" ClearviewHwy-5-W;
 12.0" Radius, 2.0" Border, White on Green;
 "SOUTH" ClearviewHwy-5-W; "Taylorville" ClearviewHwy-5-W; Standard Arrow Custom 31.1" X 18.8" 45";

6C0841055R096.5



12.0" Radius, 2.0" Border, White on Green;
 "EXIT 96B" ClearviewHwy-5-W;
 12.0" Radius, 2.0" Border, White on Green;
 "NORTH" ClearviewHwy-5-W; "South Grand" ClearviewHwy-5-W; "Avenue" ClearviewHwy-5-W; Standard Arrow Custom 31.1" X 18.8" 45";

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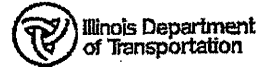
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS

SCALE: _____ SHEET NO. _____ OF _____ SHEETS STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR 0-6_OVDOSINSTRREPL12-23		SANGAMON	33	27
CONTRACT NO. 46196			[ILLINOIS] FED. AID PROJECT	

SOIL BORINGS SN 6S084I055R099.4



SOIL BORING LOG

ROUTE FAI 55 DESCRIPTION Overhead Sign Structure LOGGED BY BJS
 SECTION D6 Overhead Sign Repl LOCATION NB I-55 South of Exit 100A-B (Sangamon Ave. / I 55)
 COUNTY Sangamon STRUCTURE NO. 6S084I055R099.4 (Exlst) (Prop.)
 BORING NO. 6S084I055R099.4 DRILLING METHOD HSA and NQ2 Core HAMMER TYPE 140 lb Automatic

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOS (ft.)	UCS (tsf)	MOS (%)	SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOS (ft.)	UCS (tsf)	MOS (%)
Topsail (3")						Begin Core @ 13.2 Ft.					
Yellow Brown, Moist, Silty Clay,		2					14				
								16			
	564.34										
Light Brown over Light Gray, Dry, Silty Clay Loam, (Shaly)		4	11				18				
			26		12.7						
			27								
Light Gray, Silty Clay Loam over Silty Clay Loam, with Sand		6	60		10.4		20				
			65/3"								
	580.84										
Light Gray mottled Brown, Dry, Highly Weathered Shale and Siltstone Seams, Trace Sand		8	100/5		8.6		22				
	558.34										
Gray, Dry, Silty Shale		10	32		8.3		24				
			100/3								
		12					26				
Dry			45		7.1						
			100/3								
	554.64										
Boring Continued with Rock Coring											

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
 The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

888 137 (9/05)



ROCK CORE LOG

ROUTE FAI 55 DESCRIPTION D6 Overhead Sign Replacement LOGGED BY BJS
 SECTION D6 Overhead Sign Replacement LOCATION SEC. TWP. RNG. PM
 COUNTY Sangamon CORING METHOD Water

STRUCT. NO.	CORING BARREL TYPE & SIZE	DEPTH (ft.)	CORRE (%)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
6S084I055R099.4	NO2WL						
Station <u>624+25</u>	Core Diameter <u>2</u> In						
BORING NO. <u>6S084I055R099.4</u>	Top of Rock Elev. <u>558.34</u> ft						
Station <u>624+25</u>	BagIn Core Elev. <u>554.64</u> ft						
Offset <u>26.0R LT</u>							
Ground Surface Elev. <u>567.84</u> ft							
	Dk Gray Dry to Partially to Moderately Indurated Micaceous CLAYEY SHALE	1	100	30			3.2
		2	100	48			
		3	100	50			2.2
		4	100	0			

Color pictures of the cores Yes, On File
 Cores will be stored for examination until 5 Years after Construction
 The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
 RQD is the ratio of the total length of sound core specimens >4" to total length of core run BBS, form 136 (Rev. 8-99)

FILE NAME *	USER NAME * kallejg	DESIGNED -	REVISED -
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PLOT DATE * Sep-30-2011 10:33:55AM		DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS			
SCALE: _____	SHEET NO. _____ OF _____ SHEETS	STA. _____ TO STA. _____	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
YAS	D-6_OYOSINSIRBEEL12-23	SANGAMON	33	28
CONTRACT NO. 46196			ILLINOIS FED. AID PROJECT	

SOIL BORINGS SN 6C084I055L099.6



SOIL BORING LOG

Page 1 of 2

Date 10-19-2010

ROUTE FAI 55 DESCRIPTION Overhead Sign Structure LOGGED BY BJS
 SECTION D8 Overhead Sign Repl LOCATION SB I-55 Exit 100A (IL 54)
 COUNTY Sangamon STRUCTURE NO. 6C084I055L099.6 (Exist) (Prop.)
 BORING NO. 6C084I055L099.6 DRILLING METHOD HSA HAMMER TYPE 140 lb Automatic

SOIL DESCRIPTION	(ft.)	(ft.)	/ft ³	(tsf)	(%)	SOIL DESCRIPTION	(ft.)	(ft.)	/ft ³	(tsf)	(%)	Surface Water Elev. <u>n/a</u> (ft.)			
												Groundwater Elev.	First Encounter	Upon Completion	
Gravel (3")							14								
Fill: Brown, Moist, Silty Clay, with Sand and Gravel						Fill: Gray mottled Brown, Seams of Clay, Silty, Silty Clay and Silty Clay Loam, with Traces of Wood		3							
	2						5	3.12		23.5					
							16	7							
Fill: Yellow Brown mottled Light Gray and Brown, Trace Sand		4	1			Fill: Gray mottled Black, Seams of Silty Clay and Silty Clay Loam, with Topsoil and Traces Corn Stalk		2							
		3	1.29		22.1		18	6	2.25	21.2					
		3					6								
Fill: Brown mottled Gray and Yellow Brown, Trace Sand and Gravel		1													
	6	2	2.00		25.1	Black Topsoil over Greenish Brown mottled Yellow Brown, Moist, Clay, Silty.		20	2						
		4					4	2.50		30.2					
		2					6								
Fill: Yellow Brown mottled Brown mottled Light Gray, Moist, Clay, Silty, with Silty Clay Seam, Trace Sand		8	4	2.5	17.7		22								
		3													
		6	2.01		21.5	Light Gray mottled Yellow Brown, Moist, Silty Clay, with Seams of Silty Clay Loam		2	1.29	25.5					
		7					3								
		2					24								
Fill: Gray mottled Light Gray, with Silty Clay Seams, with Wood and Organics		10				Yellow Brown, Wet, Silty, Clayey		2							
		6					4	1.0		25.2					
		7					3								
		2					26								
Fill: Gray mottled Brown and Yellow Brown, with Trace Wood and Silty Clay Seam		3	1.71		26.2										
		5													

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
 The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (8/05)



SOIL BORING LOG

Page 2 of 2

Date 10-19-2010

ROUTE FAI 55 DESCRIPTION Overhead Sign Structure LOGGED BY BJS
 SECTION D8 Overhead Sign Repl LOCATION SB I-55 Exit 100A (IL 54)
 COUNTY Sangamon STRUCTURE NO. 6C084I055L099.6 (Exist) (Prop.)
 BORING NO. 6C084I055L099.6 DRILLING METHOD HSA HAMMER TYPE 140 lb Automatic

SOIL DESCRIPTION	(ft.)	(ft.)	/ft ³	(tsf)	(%)	SOIL DESCRIPTION	(ft.)	(ft.)	/ft ³	(tsf)	(%)	Surface Water Elev. <u>n/a</u> (ft.)			
												Groundwater Elev.	First Encounter	Upon Completion	
Light Gray mottled Yellow Brown, Moist, Silty Loam Grading to Silty Clay Loam		28	2	1.25	28.0		11								
		3					42								
						Gray mottled Black, Moist over Dry, Silty Loam, with Sand Seams and Coal Seam over Clayey Seam, Sandy		6							
							11				24.2				
Light Brown mottled Yellow Brown, Wet, Silty Loam over Silty Clay, with Sand, 8" Very Soft Seam		30	1				45								
		1	0.44		23.3		44								
		1					58								
						Gray, Moist to Dry, Shaly, with Very Thin Sandy Seams		100/5			15.1				
		32					46								
Yellow Brown mottled Light Brown, Wet, Silty Clay Loam, with Sand and Seams of Silty Loam, Sandy		1	0.86		23.7	End of Boring @ 45.6 Ft.		48							
		1					48								
		2	1.09		25.4		50								
		36	3				52								
Yellow Brown mottled Light Gray, Moist to Wet, Clay Loam and Silty Clay Loam, with Nodules of Silt, Sandy Seams		36	3	1.09	25.4										
		38	1	0.54	25.4										
		2													
Yellow Brown mottled Light Gray, Wet, Clay, Sandy and Silty, Seams of Clay Loam, Trace Gravel		40	13												
		20													

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
 The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (8/05)

FILE NAME =	USER NAME = kellyjb	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOGS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
SA\Sign Truss Plan Details\46196\46196SignTruss.dgn		DRAWN -	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	VAR	D:6_DVD\SINSTRBELL12-23	SANGAMON	33	30
PLOT SCALE = 0.1000 ft / in.		CHECKED -	REVISED -		CONTRACT NO. 46196							
PLOT DATE = Sep-30-2011 10:39:48AM		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

SOIL BORINGS SN 65084I072L104.2



SOIL BORING LOG

Page 1 of 1

Date 10/6/11

ROUTE I-72 DESCRIPTION Overhead Sign Truss LOGGED BY M. Tappan
 SECTION D 6 OVD SIN STR LOCATION SW 1/4, SEC. 29, TWP. 16N, RNG. 4W, 3 PM
 COUNTY Sangamon DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO. 65084I072L104.2 DEPTH 8 Surface Water Elev. N/A ft
 Station +/- 65+00 Stream Bed Elev. N/A ft
 BORING NO. 1 Median BULGE 8 Groundwater Elev.:
 Station 65+24 W.O.H. 8 First Encounter _____ ft
 Offset 7.0ft Left W.O.P. 9 Upon Completion Cored ft
 Ground Surface Elev. 541.4 ft (ft) /6" (tsf) (%) After 284 Hrs. 539.4 ft

DEPTH (ft)	BULGE	W.O.H.	W.O.P.	Groundwater Elev. (ft)	Notes
8	8				Light Blue Gray Dry Fissile Clayey SHALE
18					
31					
9					
100					
16"					
5					
12					Interbedded with Gray Dry Calcareous SHALE
100					
16"					
533.40					Borehole continued with rock coring.
-10					
-15					
-20					

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)



ROCK CORE LOG

Page 1 of 1

Date 10/6/11

ROUTE I-72 DESCRIPTION Overhead Sign Truss LOGGED BY M. Tappan
 SECTION D 6 OVD SIN STR LOCATION SW 1/4, SEC. 29, TWP. 16N, RNG. 4W, 3 PM
 COUNTY Sangamon CORING METHOD Water

STRUCT. NO. 65084I072L104.2 CORING BARREL TYPE & SIZE NXBWL DEPTH 1 RECOVERY 93 CORE TIME 81 STRENGTH
 Station +/- 65+00 Core Diameter 1.875 in
 BORING NO. 1 Median Top of Rock Elev. 0.00 ft
 Station 65+24 Begin Core Elev. 533.40 ft
 Offset 7.0ft Left
 Ground Surface Elev. 541.4 ft

DEPTH (ft)	RECOVERY (%)	CORE TIME (min)	STRENGTH (tsf)	Notes
533.40	1	93	81	Gray Moist Poorly Indurated Clayey SHALE <2" Open Joints 8.0 - 10.0
-10				2" - 12" Open Joints 10.0 - 12.5
528.90				Dark Gray Well Indurated Calcareous SHALE with 2" - 12" Open Joints
528.40	-19			Gray Well Indurated Sandy Calcareous SHALE with Dark Banded Seams 2" - 12" Open Jointing
523.60				Boring Completed
-20				
-25				

Color pictures of the cores Yes, On File
 Cores will be stored for examination until 5 Years after Construction
 The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
 RQD is the ratio of the total length of sound core specimens >4" to total length of core run BBS, form 138 (Rev. 8-99)

FILE NAME: <u>S:\Sign Truss Plan Details\46196\46196S</u>	USER NAME: <u>capenbergerda</u>	DESIGNED: <u></u>	REVISED: <u></u>	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOGS		F.A. RTE. <u>V&B</u>	SECTION <u>D-6_OVD SIN STR REPL 12-23</u>	COUNTY <u>SANGAMON</u>	TOTAL SHEETS <u>33</u>	SHEET NO. <u>32</u>
PLOT SCALE: <u>0.1856 ft / in.</u>	CHECKED: <u></u>	REVISED: <u></u>	SCALE: _____		SHEET NO. _____ OF _____ SHEETS	STA. _____ TO STA. _____	CONTRACT NO. <u>46196</u>		ILLINOIS FED. AID PROJECT		
PLOT DATE: <u>Nov-04-2011 02:03:08PM</u>	DATE: <u></u>	REVISED: <u></u>									

SOIL BORINGS

SN 6S084I072L104.2



Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 1

Date 10/7/11

ROUTE I-72 DESCRIPTION Overhead Sign Truss LOGGED BY M. Tappan
SECTION D 6 OVD SIN STR LOCATION SW 1/4, SEC. 29, TWP. 16N, RNG. 4W, 3 PM
COUNTY Sangamon DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO. 65084I072L104.2 Station +/- 65+00
BORING NO. 2 N. Shoulder Station 64+87 Offset 110.0ft Left Ground Surface Elev. 542.2 ft
Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft
Groundwater Elev.:
 First Encounter ft
 Upon Completion Cored ft
 After 240 Hrs. 538.2 ft

DEPTH (ft)	BULGE (ft)	SHEAR (tsf)	PENETROMETER (lb/in)	ESTIMATED (lb/in)	SOIL DESCRIPTION
0					Gray and Brown Dry SILTY CLAY (Till)
1					
2	.70	20			
3	B				
538.70					Tan Dry Shaley CLAY
6		3	9		
7		P			
538.20					Brown and Gray Very Weathered Clayey SHALE
9			9		
30					
47					
100					
532.70			8		Gray Dry Fissile Clayey SHALE
10					Borehole continued with rock coring.
20					

File Name: S:\SOILBORING\SOILBORING\TRUSS 65084I072L104.2.GPJ Data Template DISTEMP.LDOT Data Printed 10/27/11
Time: 09:44:54 AM Longitude: 89.347859 Datum: NAD83 Job Number: C-0605-12

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. 8-89)



Illinois Department of Transportation
Division of Highways
District 6

ROCK CORE LOG

Page 1 of 1

Date 10/7/11

ROUTE I-72 DESCRIPTION Overhead Sign Truss LOGGED BY M. Tappan
SECTION D 6 OVD SIN STR LOCATION SW 1/4, SEC. 29, TWP. 16N, RNG. 4W, 3 PM
COUNTY Sangamon CORING METHOD Water

STRUCT. NO. 65084I072L104.2 Station +/- 65+00
BORING NO. 2 N. Shoulder Station 64+87 Offset 110.0ft Left Ground Surface Elev. 542.2 ft
CORING BARREL TYPE & SIZE NXBWL
Core Diameter 1.875 in
Top of Rock Elev. 6.00 ft
Begin Core Elev. 532.70 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	RQD (%)	CORE TIME (min/ft)	STRENGTH (tsf)	DESCRIPTION
532.70	-10	1	92	41		Gray Poorly Indurated Calcareous SHALE Interbedded with Gray Poorly Indurated Clayey SHALE seams Closed Jointing 2" - 12"
528.90						Grayish Brown Poorly Indurated Argillaceous LIMESTONE Very Broken with Vertical Open Joints. <2" Spacing
528.30						Gray Well Indurated Sandy Calcareous SHALE with Dark Banding Throughout Joint Spacing 2" - 12" Open Jointing
522.90					152.3	
20						*NOTE: Could not get a 4" sample from top 5' of core for compressive strength sample.
						Compressive Strength Samples: S# 2-1 = 17.8 - 18.3
						STA'S and ELEV'S Provided by Dist. 6 Survey's

ROCK CORE SOIL TRUSS 65084I072L104.2.GPJ DISTEMP.LDOT 10/27/11

Color pictures of the cores Yes, On File
Cores will be stored for examination until 5 Years after Construction
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
RQD is the ratio of the total length of sound core specimens >4" to total length of core run BBS, form 138 (Rev. 8-89)

FILE NAME =	USER NAME = copenbergerda	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOGS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
S:\Sign Truss Plan Details\46196\46196S	Repl.Ldgn	DRAWN -	REVISED -		SCALE: _____	SHEET NO. _____ OF _____ SHEETS	STA. _____ TO STA. _____	VAR	D-6_OVDOSINIGREELJ2-23	SANGAMON	33	32A
	PLOT SCALE = 0.1856 ft / in.	CHECKED -	REVISED -		CONTRACT NO. 46196							
	PLOT DATE = Nov-04-2011 02:18:11PM	DATE -	REVISED -		ILLINOIS/FED. AID PROJECT							

SOIL BORINGS

SN 6C084I055L103.6



Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 1

Date 10/14/11

ROUTE I-55 DESCRIPTION Overhead Sign Rest Area LOGGED BY M. Teppan
SECTION D 6 OVD SIN STR REPL 12-23 LOCATION W 1/2, SEC. 31, TWP. 17N, RNG. 5W, 3 PM
COUNTY Sangamon DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO. 6C084I055L103.6 Station 395+95
BORING NO. 1 Station 395+95 Offset 107.00 RT Ground Surface Elev. 557.1 ft
Surface Water Elev. N/A ft Stream Bed Elev. N/A ft
Groundwater Elev.:
 First Encounter 553.1 ft
 Upon Completion Plugged ft
 After 72 Hrs. Plugged ft

DEPTH	LOCUS	UCS	MOIST	DEPTH	LOCUS	UCS	MOIST
(ft)	/6"	(tsf)	(%)	(ft)	/6"	(tsf)	(%)
546.60				546.60			
1				6			
3	1.2	23		100			12
4	S-12			16"			
554.10							
1				5			
1	.70	20		25			12
3	B			60			
581.60				542.10	-25		
1							
2	1.4	23					
3	B						
1							
2	1.2	24					
3	B						
556.60							
1							
1	1.1	23					
3	B						
553.10							
1							
2							
551.60							
1							
10	4.2	21					
12	S-14						
1							
18	1.8	16					
25	S-5						
20							

File Name: S:\SOILBORING\FILES\SANGAMON\SS OVERHEAD SIGN REST AREA\103.6\103.6.DWG Date: 10/14/11
 User: M. Teppan Job Number: C-08023-12

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:\Sign Truss Plan Details\46196\46196.DWG	USER NAME: copehberger	DESIGNED: -	REVISED: -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOGS		F.A. RTE.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	Repl.dgn	DRAWN: -	REVISED: -		SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	VAR	D-6_OVD SIN STR REPL 12-23	SANGAMON	33	33
	PLOT SCALE = 0.1856 ft / in.	CHECKED: -	REVISED: -									CONTRACT NO. 46196
	PLOT DATE = Nov-04-2011 02:05:38PM	DATE: -	REVISED: -									ILLINOIS FED. AID PROJECT