06-16-2017 LETTING ITEM 064

INDEX OF SHEETS

14-16 SIGN DETAILS 17-20 SOIL BORING LOGS

COVER SHEET

HIGHWAY STANDARDS

630001-11

631011-10 701101-05 701106-02 701400-09

701406--11 701411-09

701446--08

SUMMARY OF QUANTITIES QUANTITY SCHEDULES 4-13 SIGN TRUSS DETAILS

STATE OF ILLINOIS

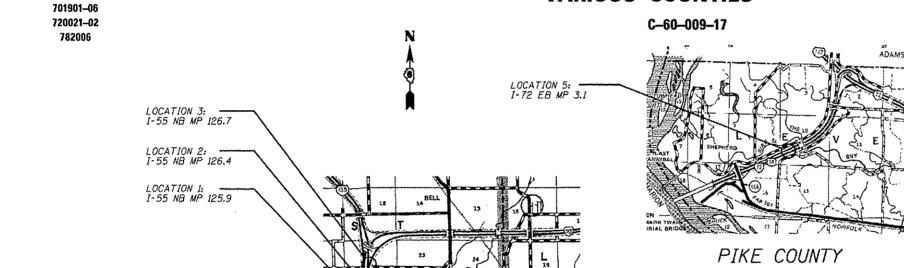
DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

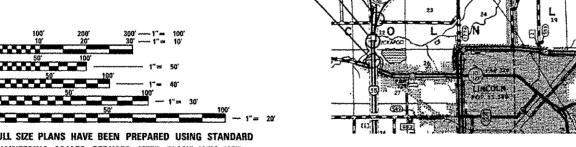
PROPOSED SIGN TRUSS REPLACEMENT

VARIOUS ROUTES SECTION D-6 OVD SIN STR REPL 17-09

OVERHEAD SIGN TRUSS REPLACEMENT VARIOUS COUNTIES



LOGAN COUNTY



ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

BRIDGE MAINTENANCE ENGINEER - BRANDON DUDLEY (217) 785-9290 BRIDGE INSPECTION ENGINEER - DAVE COPENBARGER (217) 785-5306

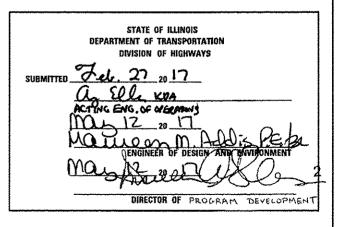
GROSS LENGTH = NA NET LENGTH = NA

ADAMS COUNTY

D-60-009-17 LOCATION OF SECTION INDICATED THUS: -

VAR. DE OVD SIN STR REP 17-09

P 17-05 VAR. 20 1



LOCATION 4: I-172 SB MP 15.6

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 46416

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RURAL CONST. CODE

100% STATE

RURAL CONST. CODE

100% STATE

				٧	7.100.201.11.2
	CODE NO.	ITEM	UNIT	TOTAL YTITMAUO	MINOR STR.
	X0324181	DISCONNECT SIGN LIGHTING AND REMOVE WIRING TO NEAREST SPLICE	EACH	5	5
	X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	1
	X7200075	REMOVE AND REINSTALL SIGN PANEL	SO FT	367	367
	Z0013798	CONSTRUCTION LAYOUT	L SUM	2 4	1
*	63000001	STEEL PLATE BEAM GUARDRAIL. TYPE A. 6 FOOT POSTS	FOOT	100	100
¥	63302000	REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 2	EACH	4	4
	67100100	MOBILIZATION	L SUM	4-14	1
	70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	send	1
	72000300	SIGN PANEL - TYPE 3	SO FT	1293	1293
	72400330	REMOVE SIGN PANEL - TYPE 3	SO FT	1526	1526
	73300100	OVERHEAD SIGN STRUCTURE - SPAN. TYPE [-A (4'-" X 4'-6")	FOOT	79	79
	73300300	OVERHEAD SIGN STRUCTURE - SPAN, TYPE [[]-A (5'-0" X 7'-0")	FOOT	341	341
÷	73400200	DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	96.4	96. 4
	73600100	REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	5	5

				100% STATE
CODE NO.	ITEM	UNIT	TOTAL OUANTITY	MINOR STR. 0004
	X 1 UII		JOAN IT	— 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
73700300	REMOVE CONCRETE FOUNDATIONS - OVERHEAD	EACH	10	10
1				
78200005	GUARDRAIL REFLECTORS. TYPE A	EACH	4	4
		Value of Artistance	1	
			111111111111111111111111111111111111111	
				recognition and relativistic formula in the contract and the state of
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* SPECIALTY ITEM

<u> </u>							
FRE NAME :	USER NAME : dudloybo	DESIGNED -	REVISED -			F.A.L. SECTION	COUNTY TOTAL SHEET
0:\CPERATIONS\Bridges\Bridgeplens.CAD\40	416 - sign trusses 2017\revised planshestidge	ORAWN -	REVISED -	STATE OF ILLINOIS	SUMMARY OF QUANTITITES	RIE.	SHEETS NO.
	PLOT SCALE * 100.0000 1/ 10.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	1	VAR. 106 UV SIN SIN NEP 11-09	CONTRACT NO ACAIC
Dofault	PLGT DATE * 2/15/2017	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.	ICLINOISIFED. AI	LONINACT NO. 46416

LOCATION #1: SN 650541055R125.9		
COUNTY: LOGAN ROUTE: 1-55 MP: 125.9 DIRECTION: N	IB	
LOCATION DESCRIPTION: AT IL 10 OFF RAMP NEAR LINCOLN		
BM 054-013A: CHISELED "X" ON NW BOLT OF W LEG OF EXISTING SIGN	TRUSS AT	THIS
LOCATION ELEV: 580.28		
DESCRIPTION OF WORK	UNIT	QUANTITY
REMOVE SIGN PANEL - TYPE 3	SO FT	434.5
OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-A (5'-0" X 7'-0")	FOOT	125
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	22.5
REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	1
REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	2
DISCONNECT SIGN LIGHTING AND REMOVE WIRING TO NEAREST SPLICE	EACH	1
SIGN PANEL - TYPE 3	SQ FT	492
MOBILIZATION	L SUM	0.2
TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	0.2
NIGHTTIME WORK ZONE LIGHTING	L SUM	0.2
CONSTRUCTION LAYOUT	L SUM	0.25

LOCATION #3: SN 6S054I055RI26.7		
COUNTY: LOGAN ROUTE: 1-55 MP: 126.7 DIRECTION: N	B	
LOCATION DESCRIPTION: O.8 MILES N OF IL 10 NEAR LINCOLN		
BM TEA-4IA: CHISELED SOUARE AT CENTER OF 5' PIPE CULVERT HEA	DWALL ON	E SIDE OF
SB 1-55 @ APPROX. STA 391+32 (+/- 200' FROM TRUSS) ELEV: 5	59.05	
DESCRIPTION OF WORK	UNIT	QUANTITY
REMOVE SIGN PANEL - TYPE 3	SQ FT	428.75
OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-A (5'-0" X 7'-0")	FOOT	113
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	27.8
REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	1
REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	2
DISCONNECT SIGN LIGHTING AND REMOVE WIRING TO NEAREST SPLICE	EACH	1
SIGN PANEL - TYPE 3	SQ FT	446
MOBILIZATION	L SUM	0.2
TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	0.2
NIGHTTIME WORK ZONE LIGHTING	L SUM	0.2
CONSTRUCTION LAYOUT	L SUM	0.25

LOCATION #5: SN 6S0751072R003,1		
COUNTY: PIKE ROUTE: 1-72 MP: 3.1 DIRECT	ION: EB	
LOCATION DESCRIPTION: 1.7 MI EAST OF IL 106 OVERHEAD NEAR	HANNIBAL	
BM WS-78; CHISELED SQUARE ON N CONCRETE FOOTING OF EXIST	ING TRUSS AT T	HIS
LOCATION ELEV: 465.53		
DESCRIPTION OF WORK	UNIT	QUANTITY
REMOVE AND REINSTALL SIGN PANEL	SQ FT	367
OVERHEAD SIGN STRUCTURE - SPAN, TYPE I-A (4'-0" X 4'-6")	FOOT	79
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	21.5
REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	1
REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	2
DISCONNECT SIGN LIGHTING AND REMOVE WIRING TO NEAREST SPI	LICE EACH	1
MOBILIZATION	L SUM	0.2
TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	0.2
NIGHTTIME WORK ZONE LIGHTING	L SUM	0.2
CONSTRUCTION LAYOUT	L SUM	0.25

LOCATION #2: SN 6S054I055RI26.4		
COUNTY: LOGAN ROUTE: I-55 MP: 126.4 DIREC	TION: NB	
LOCATION DESCRIPTION: 0.5 MILES N OF IL 10 NEAR LINCOLN		
BM CB-01111: CHISELED SOUARE ON SW PARAPET APPROACH WAL	LL OF SN 054-004	49
JUST N OF TRUSS LOCATION ELEV: 566.31		
DESCRIPTION OF WORK	UNIT	QUANTITY
REMOVE SIGN PANEL - TYPE 3	SQ FT	330.75
OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-A (5'-0" X 7'-0")	FOOT	103
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	24.6
REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	1
REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	2
DISCONNECT SIGN LIGHTING AND REMOVE WIRING TO NEAREST S	PLICE EACH	1
SIGN PANEL - TYPE 3	SO FT	355
MOBILIZATION	L SUM	0.2
TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	0.2
NIGHTTIME WORK ZONE LIGHTING	L SUM	0.2
CONSTRUCTION LAYOUT	L SUM	0.25

LOCATION #4: SN 6S00J]]72L0[5.6		
COUNTY: ADAMS ROUTE: 1-172 MP: 15.6 DIRECTION:	5B	
LOCATION DESCRIPTION: AT BEGINNING OF COLUMBUS RD OFF RAMP NE	AR QUINCY	
BM BA-31: CHISELED SQUARE ON E CONCRETE FOOTING OF EXISTING	TRUSS AT T	HIS
LOCATION ELEV: 722.67		
DESCRIPTION OF WORK	UNIT	QUANTITY
REMOVE SIGN PANEL - TYPE 3	SQ FT	331.5
REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	1
REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	2
DISCONNECT SIGN LIGHTING AND REMOVE WIRING TO NEAREST SPLICE	EACH	1
MOBILIZATION	L SUM	0.2
TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	0.2
NIGHTTIME WORK ZONE LIGHTING	L SUM	0.2

NOTE: TRUSS 6S00111072L015.6 TO BE REPLACED WITH POST MOUNTED SIGNS BY OTHERS. TRUSS SHALL NOT BE REMOVED UNTIL NEW SIGNS ARE INSTALLED.

			GUARDRAIL SCHEDULE			
TRUSS	DIRECTION	SIDE	LOCATION	SPBGR. TY A 6' POSTS (FOOT)	R&R TRAF. BAR. TERM. TY 2 (EACH)	GUARDRAIL REF, TY A (EACH)
6S054I055RI25.9	NBL	OUTSIDE	N END OF EXISTING	25	1	1
6S054I055R126.7	NBL	OUTSIDE	N END OF EXISTING	25	1	I
	NBL	MEDIAN	N END OF EXISTING	25	1	1
6S075I072R003.1	EBL	MEDIAN	E END OF EXISTING	25	1	1
			TOTALS:	100	4	4

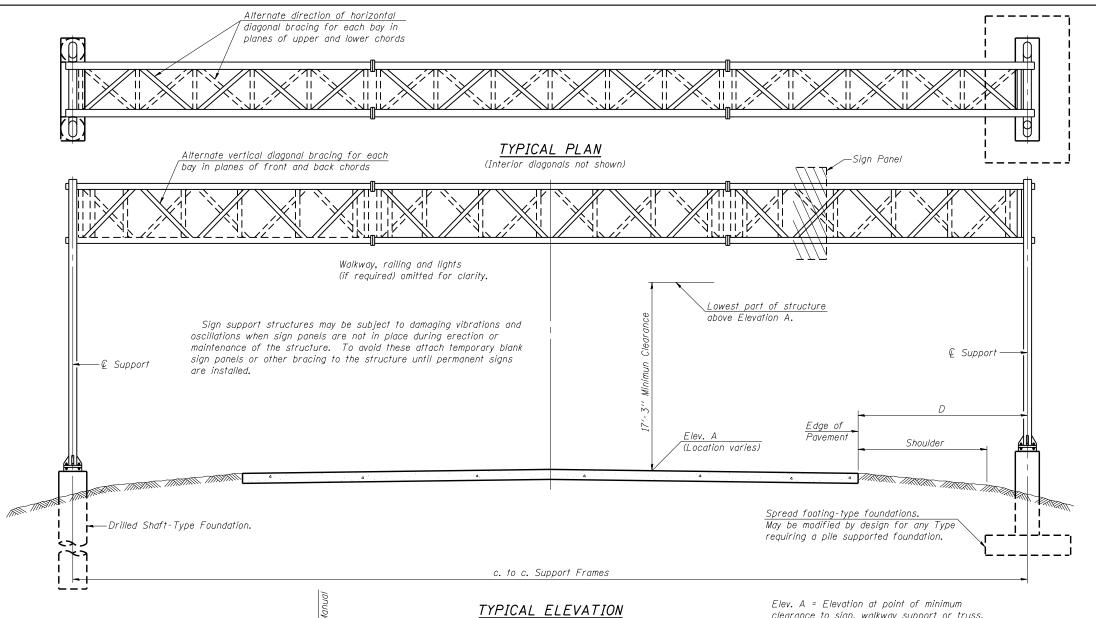
NOTE: NO GUARDRAIL WORK REQUIRED AT TRUSS 650541055R126.4

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STAT	E OF	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

SCALE:

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	QUANTITY SCHEDULES					VAR.	06	QV S	N .	STR	REP	17-09	VAR.	20		3
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(Looking at Face of Signs**)

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
6S054I055R125 . 9	350+20	III-A	125′	582.36	32′	16.5′	492 SF
6S054I055R126.4	<i>373+30</i>	III- A	103′	563.98	32'	14.5′	355 SF
6S054I055R126.7	392+20	III-A	113′	566.11	32'	17'	446 SF
6S075I072R003.1	100+20	I-A	79′	466.22	41.5′	15′	367 SF

^{**}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.

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.

fy = 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 Specificiations.

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)d 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

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

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

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

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

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE SPAN TYPE I-A	Foot	79
OVERHEAD SIGN STRUCTURE SPAN TYPE II-A	Foot	-
OVERHEAD SIGN STRUCTURE SPAN TYPE III-A	Foot	341
OVERHEAD SIGN STRUCTURE WALKWAY TYPE A	Foot	-
CONCRETE FOUNDATIONS	Cu. Yds.	1
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	96 . 4

OS-A-1

10 p.s.f

analysis for all components.

8-21-13

30 p.s.f. (See Sign Structures

Manual for max. sign areas)

Maximum Lenath

c. to c. Support Frames (See Sign Structures Manual)

DESIGN WIND LOADING DIAGRAM

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

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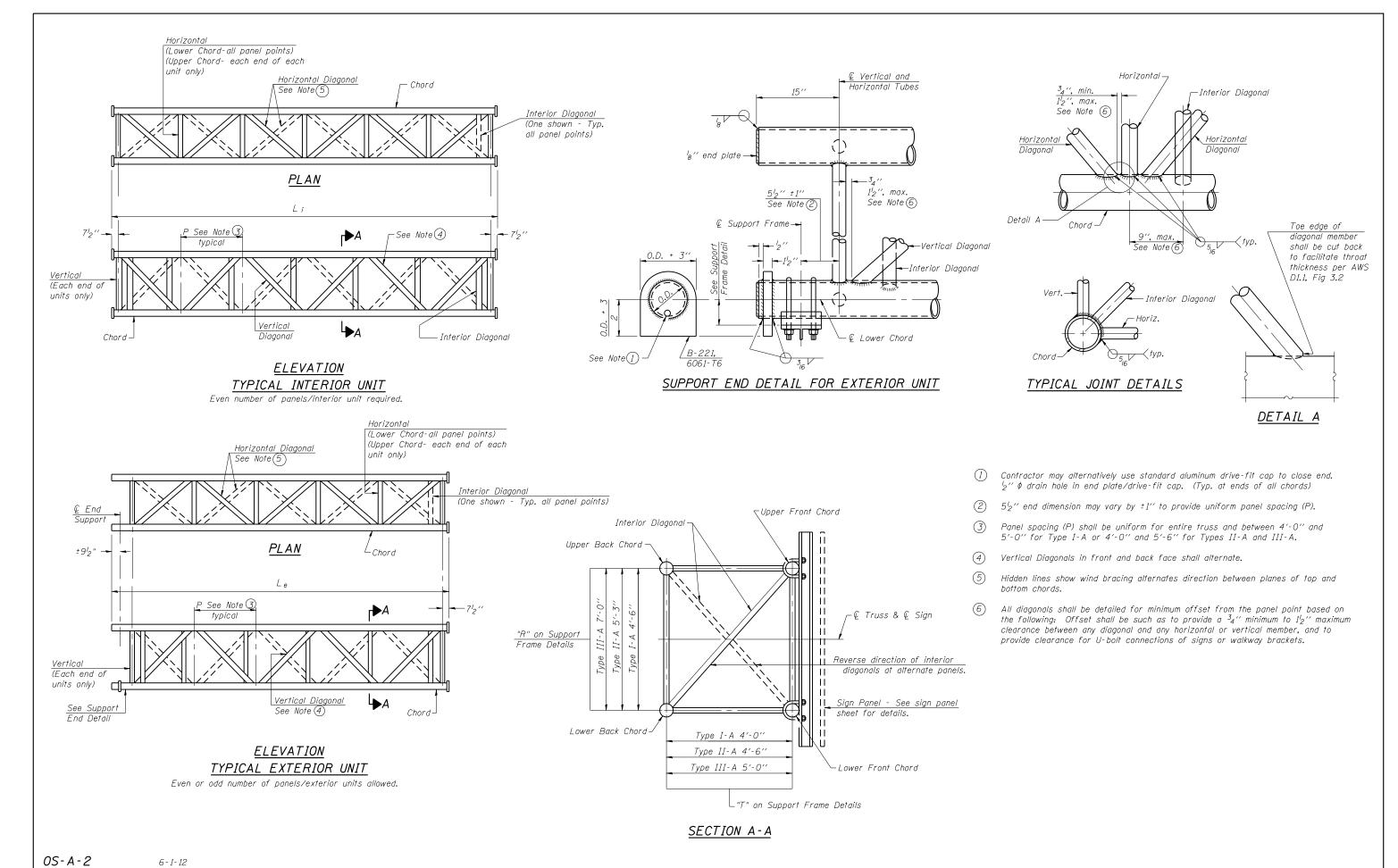
10 p.s.f.

End Support

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

OVERHEAD SIGN STRUCTURES - GENERAL PLAN & **ELEVATION - ALUMINUM TRUSS & STEEL SUPPORTS** SCALE: SHEET SHEETS STA.

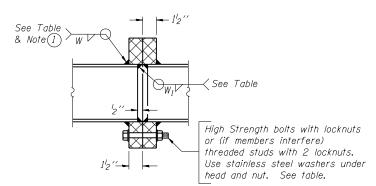
SECTION COUNTY VAR. D6 OV SIN STR REP 17-09 VΔR 20 4 CONTRACT NO. 46416



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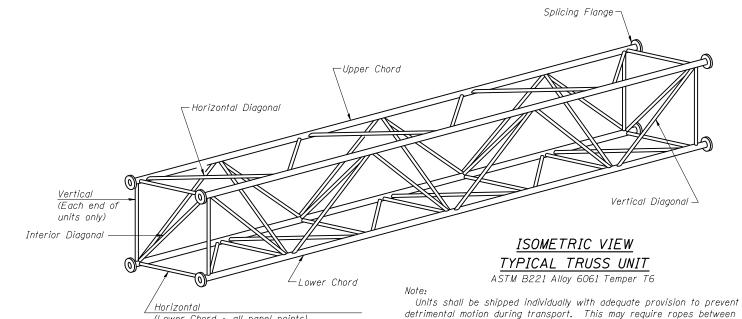
TRUSS UNIT TABLE

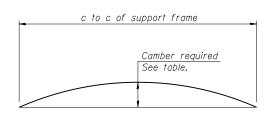
Structure		Design Truss	Exte	erior Units	(2)		Interio	r Unit			& Lower ord		izontals; Vertical, Interior Diagonals	Camber	er Splicing			ing Flange		
Number	Station	Type	No. Panels per Unit	Unit	Panel Lgth.(P)	No.	No. Panels per Unit		Panel					Midspan	Bolt.		Weld	Sizes	A	В
6S054I055R125.9	350+20	III- A	6	32'-0"	5'-04"	2	6	Lgth.(L;) 31'-4 ¹ 2"		7"	Wall 3/8"	0.D. 3-1/4"	Wall 5/16"	3-1/2"	No./Splice 8	<u>Dia.</u> 1"	9/16"	7/16"	11-1/2"	15"
CCOEAIOEEDIOC A	373+30	III-A	7	ZC/ 03 "	4'-11 ³ 4"	,	6	71/ 1/ 1/ 1/	4'-1134"	7"	5/16"	3-1/4"	5/16"	2-1/2"		111	7/16"	5/16"	11-1/2"	15"
6S054I055R126.4	373*30	111-A		36 - 6 - 4	4 - 11 - 4	I	6	31 - 12	4 - 11 - 4	/	3716	3-1/4	5716	2-1/2	Ь	I	1716	5/16	11-1/2	15
6S054I055R126.7	392+20	III-A	8	38'-412"	4'-634"	1	8	37′-9"	4'-634"	7"	5/16"	3-1/4"	5/16"	2-7/8"	6	1"	7/16"	5/16"	11-1/2"	15"
6S075I072R003.1	100+20	I-A	5	25'-64"	4'-834"	1	6	29'-7'2"	4'-834"	5"	5/16"	2-1/2"	5/16"	2-1/4"	6	7/8"	5/16"	1/4"	8-3/4"	11-3/4"



SECTION B-B

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





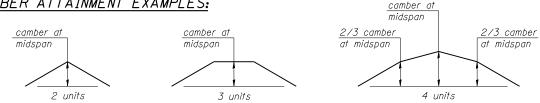
(Lower Chord - all panel points)

(Upper Chord - each end of each unit only)

CAMBER DIAGRAM

Camber curve shown is theoretical. Actual camber attained by slope changes at splices between units.

CAMBER ATTAINMENT EXAMPLES:



Camber shown is for fabrication only, measured with truss fully supported. (No-load condition)

0S4-A-2

6-1-12

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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

OVERHE	AD SIGN S FOR TE	STRUCTURE				DETAILS	Ŧ
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horizontals and diagonals or energy dissipating (elastic) ties to the vehicle.

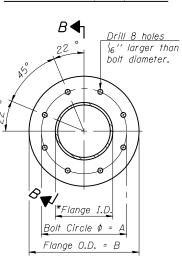
The Contractor is responsible for maintaining the configuration and

protection of the units.

VAR.	106	ΟV	SIN	SIR	REP	17-09		_	20 NO. 4	46416
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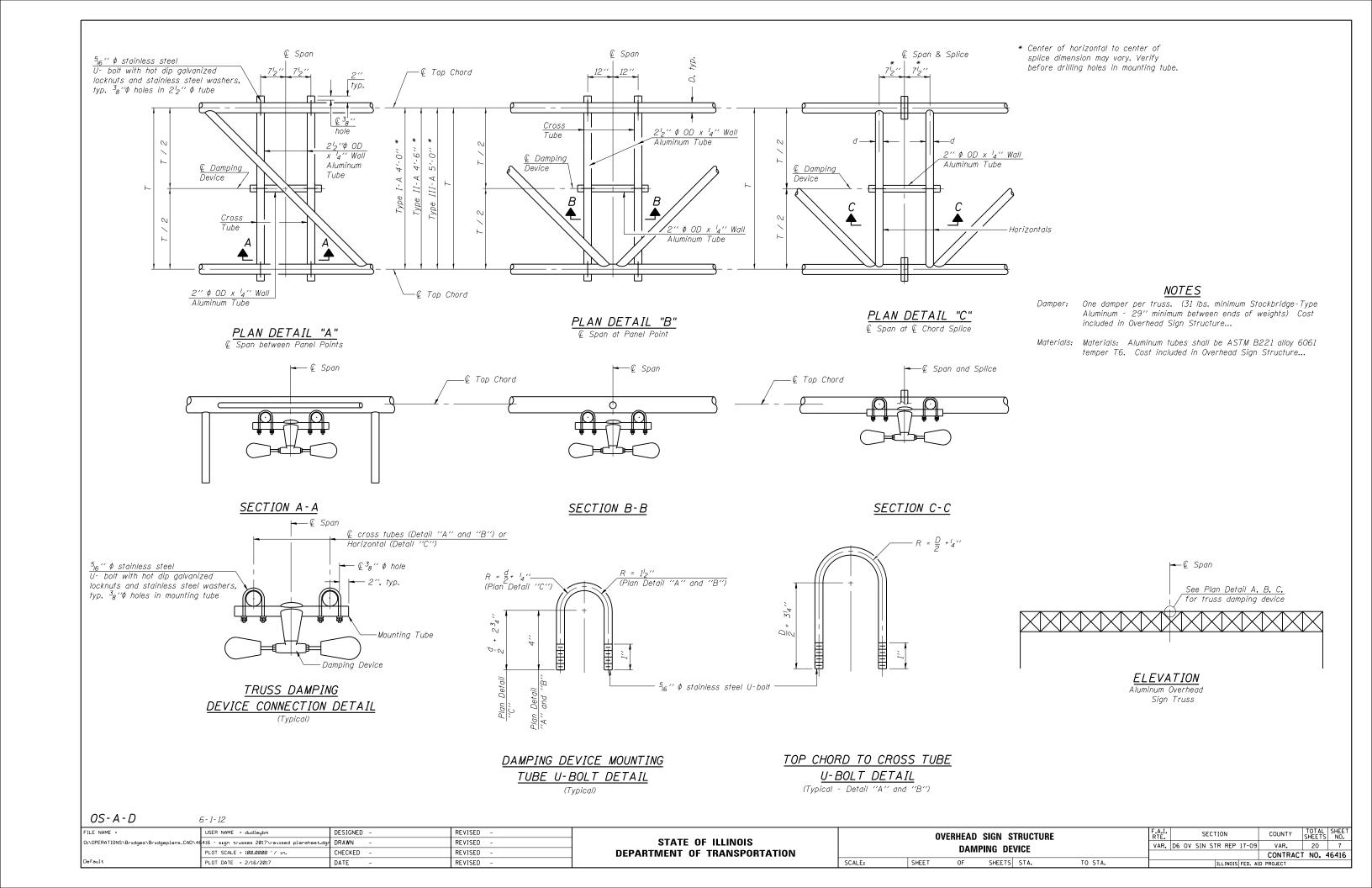
Drill 6 holes 1₆" larger than bolt diameter. *Flange I.D.

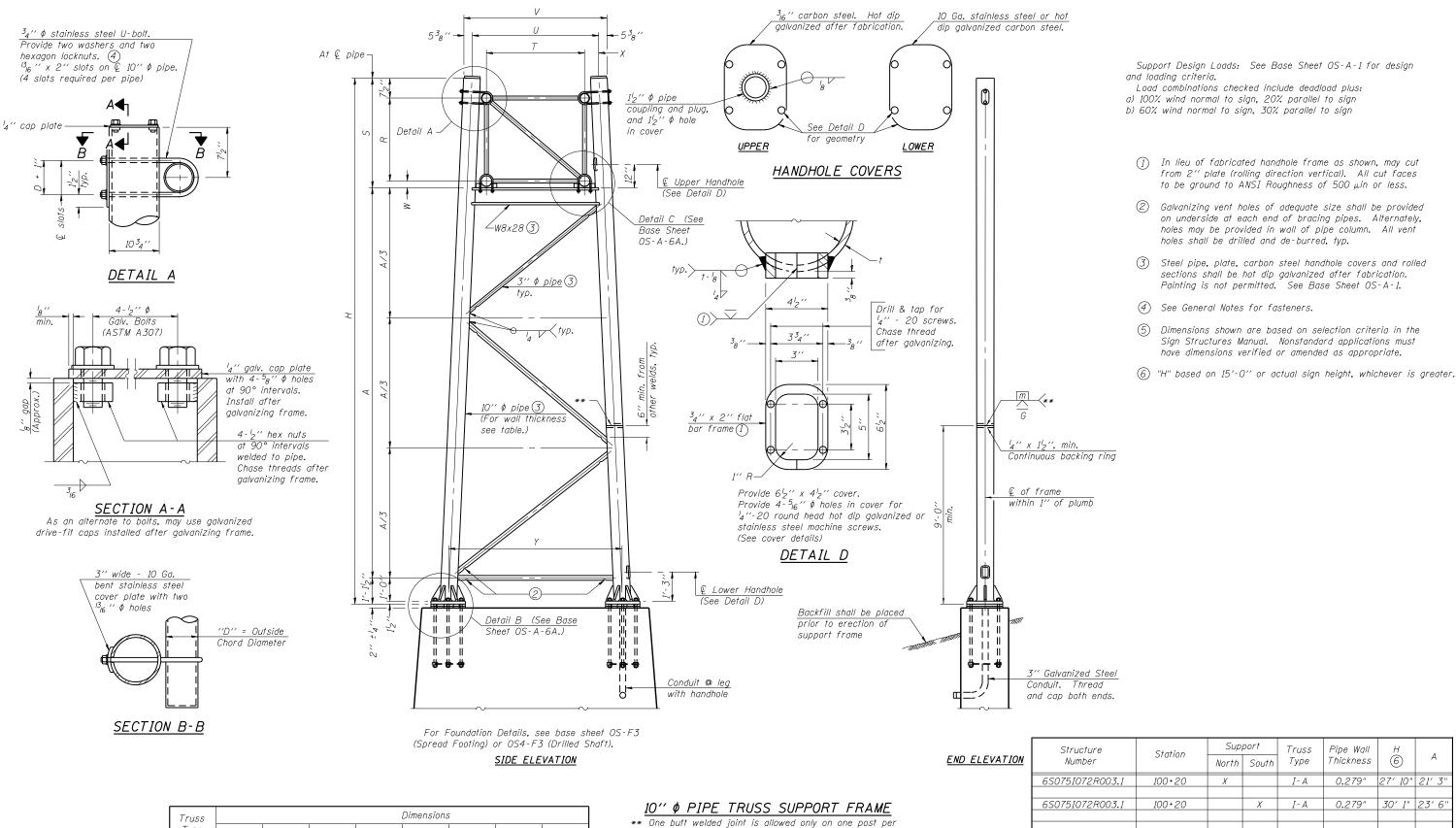
TRUSS TYPES I-A, II-A, & III-A



TRUSS TYPES II-A & III-A <u>SPLICING FLANGES</u>

ASTM B221, Alloy 6061-T6 or ASTM B209, Alloy 6061-T651 *To fit O.D. of Chord with maximum gap of $\frac{1}{6}$ ".





Structure	Station	Sup,	oort	Truss	Pipe Wall	Н	
Number	Sidiloli	North	South	Туре	Thickness	6	A
6S075I072R003.1	100+20	Х		<i>I</i> - A	0.279"	27′ 10"	21′ 3"
6S075I072R003.1	100+20		Χ	I-A	0.279"	30′ 1"	23′ 6"

from 2" plate (rolling direction vertical). All cut faces

on underside at each end of bracing pipes. Alternately,

holes may be provided in wall of pipe column. All vent

sections shall be hot dip galvanized after fabrication.

Painting is not permitted. See Base Sheet OS-A-1.

Sign Structures Manual. Nonstandard applications must

have dimensions verified or amended as appropriate.

holes shall be drilled and de-burred, typ.

to be ground to ANSI Roughness of 500 μin or less.

0S-A-6

6-1-12

Туре

II-A (5)

R

4'-6"

5′-3′′

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S

5'-52"

6'-34"

4'-0"

4'-6''

U

5′-6′′

6'-1''

V

6'-4³4''

6'-11³4''

W

4"

434"

X

8'-3"

8'-3"

9"

912"

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

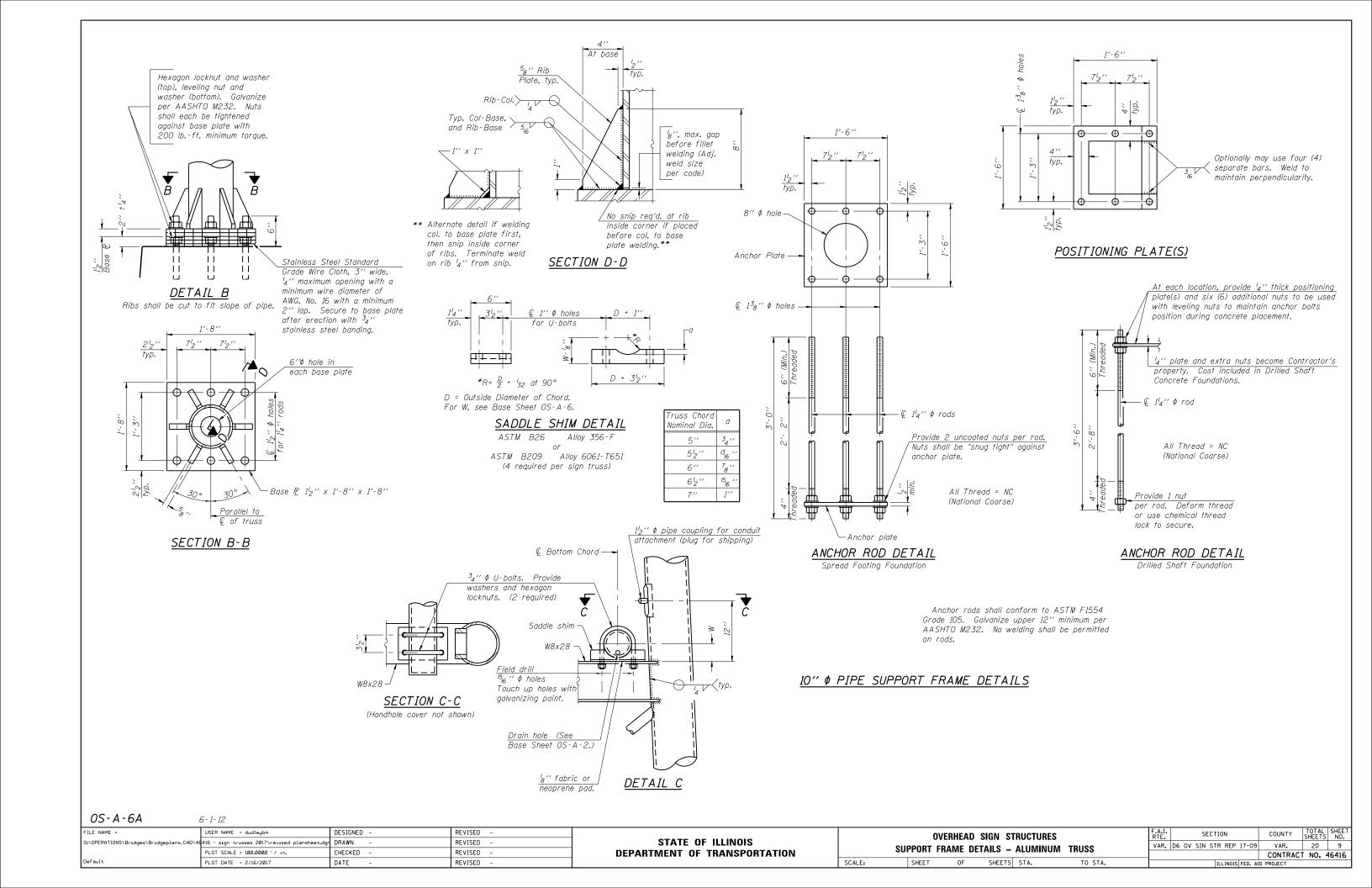
support frame. If used, weld procedure must be preapproved by Engineer and joint shall receive 100%

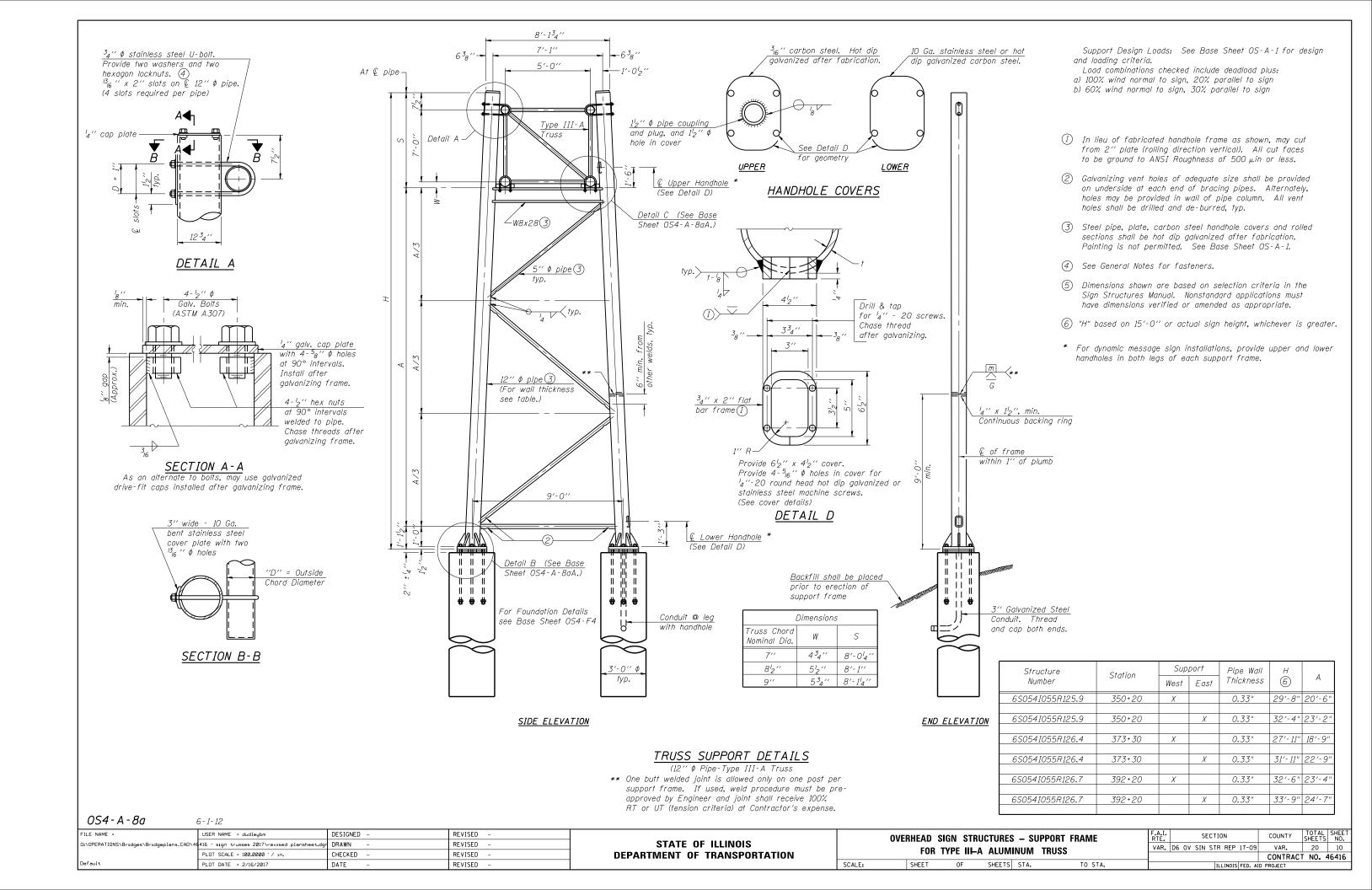
SCALE:

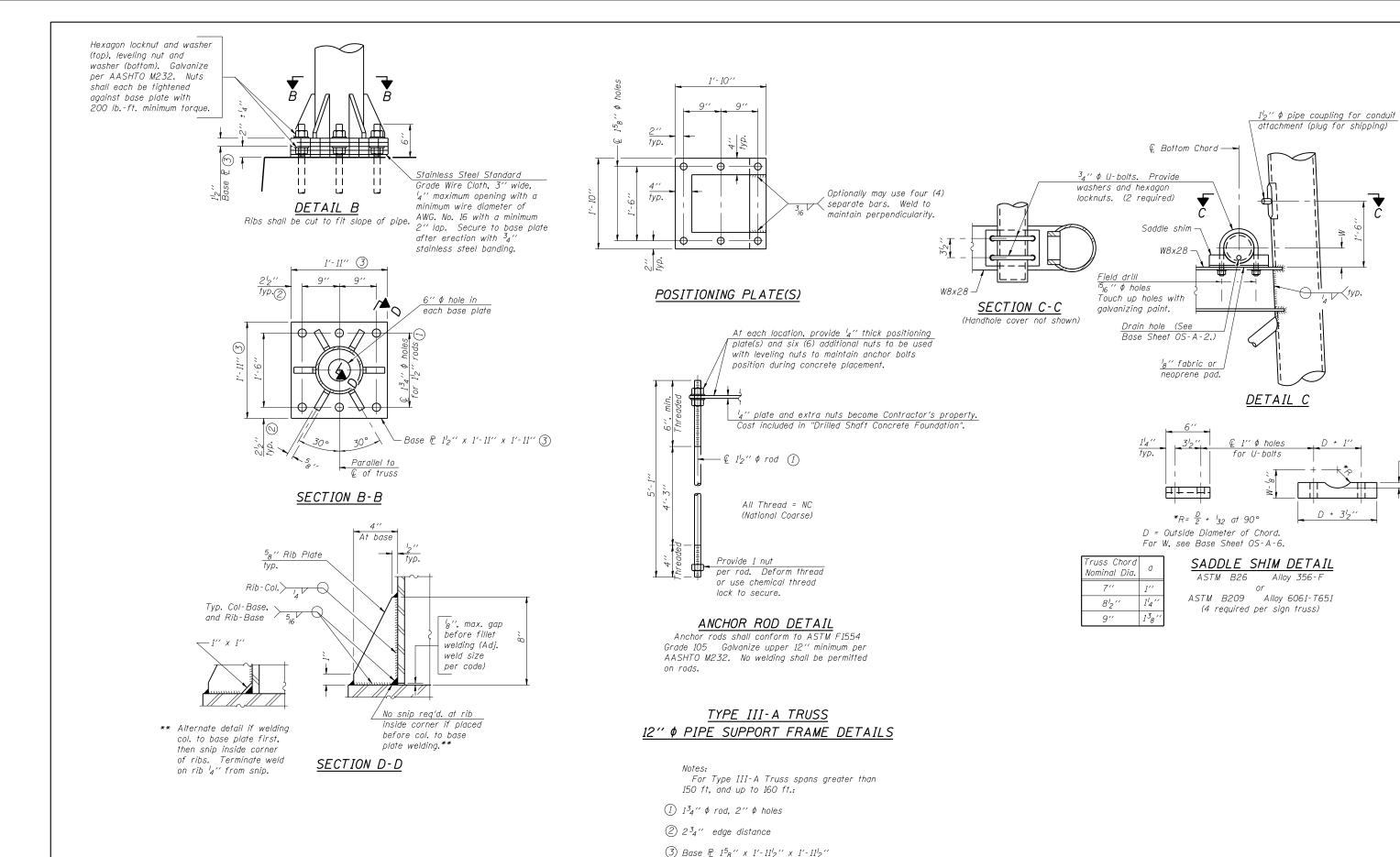
RT or UT (tension criteria) at Contractor's expense.

OVE	RHEAD	SIGN ST	RUCTURI	S	F.A RTI	
SUPPORT	FRAME	FOR ALI	UMINUM	TRUSS	VA	R.
SHEET	OF	SHEETS	STA.	TO STA.		_

SECTION COUNTY R. D6 OV SIN STR REP 17-09 VAR 20 8 CONTRACT NO. 46416







0S4 - A - 8aA

6 - 1 - 12

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0:\OPERATIONS\Bridges\Bridgeplans_CAD\46	416 - sign trusses 2017\revised plansheet.dgr	DRAWN -	REVISED -	STATE OF ILLINOIS						IM TOLICC	VAR.	O6 OV SIN STR REP 17-09	VAR.	20 11
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	3	SUPPORT FRAN	NIE FUK	ITPE III	HA ALUMINU	JIVI IKUSS			CONTRAC	T NO. 46416
Default	PLOT DATE = 2/16/2017	DATE -	REVISED -		SCALE:	SHEET	OF	SHEET:	S STA.	TO STA.		ILLINOIS FED. AII	PROJECT	

BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
V4(E)	24	#9	F less 5"	
#4 bo	ar spiral (l	E) - see .	Side Elevatio	ก

NOTES

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

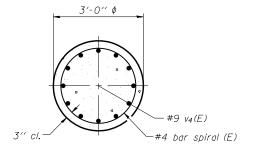
If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

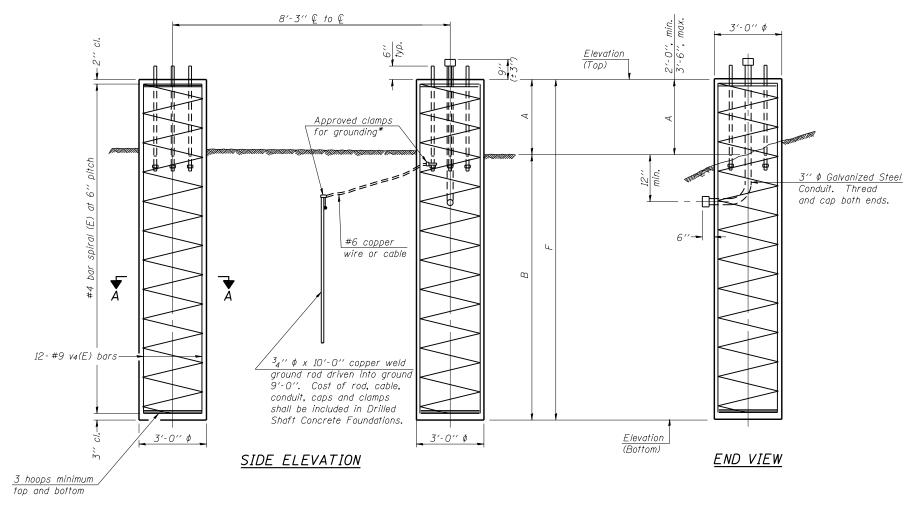
Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

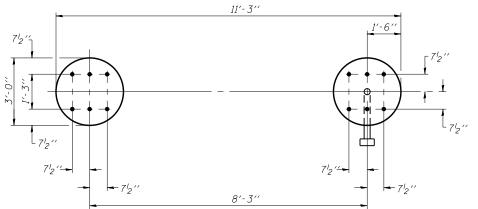
A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.



SECTION A-A

DETAILS FOR 10" \$\phi\$ SUPPORT FRAME TYPE I-A or II-A TRUSS





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.

PLAN

Characteria			/	North Foundation	7				South Foundatio	วก		Class DS
Structure Number	Station	Elevation Top	Elevation Bottom	А	В	F	Elevation Top	Elevation Bottom	А	В	F	Concrete (Cu. Yds.)
6S075I072R003.1	100+20	465.87	445.37	2.5′	18.0′	20.5′	463.55	443.05	2.5′	18.0′	20.5′	21.5

SCALE:

0S4-F3

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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES								
		DRILLED	CHAFT	DETAILS				
		DITTLLL	JIIAI I	DETAILS				
	SHEET	OF	SHEETS	STA.	TO STA.	ı	_	

F.A.I. RTE.			SE	CTIC	N			COUNTY	TOTAL SHEETS	SHEE NO.
VAR.	D6 OV SIN STR REP					17-0	9	VAR.	20	12
							Т	CONTRAC	NO.	46416
				TI	INOIS	EED	AID	PPO IECT		

BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
V4(E)	24	#9	F less 5"	
#4 bar spiral (i		E) - see :	Side Elevatio	วก

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

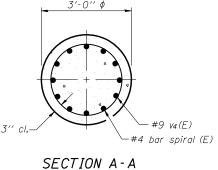
If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be

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.

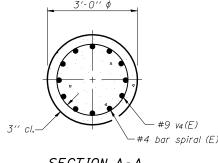
Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column,

concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.



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.

A normal surface finish followed by a Concrete Sealer application will be required on



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

END VIEW

Elevation (Bottom)

3" ♦ Galvanized Steel

Conduit. Thread

and cap both ends.

Elevation (Top)

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

DETAILS FOR 12" \$\phi\$ SUPPORT FRAME TYPE III-A TRUSS

<u> </u>				West F	oundation			East Fo	undation			Class DS
Structure Number	Station	Elevation Top	Elevation Bottom	А	В	F	Elevation Top	Elevation Bottom	А	В	F	Concrete (Cu. Yds.)
6S054I055R125.9	350+20	582.12	560.62	2.5′	19'	21.5′	579.51	558.01	2.5′	19′	21.5′	22.5
6S054I055R126.4	373+30	564.78	541.28	2.5′	21'	23.5′	560.78	537.28	2.5′	21'	23.5′	24.6
6S054I055R126.7	392+20	563.29	537.79	2.5′	23′	25.5′	562.03	534.53	2.5′	25′	27.5′	27.8

SCALE:

0S4-F4

spiral (E) at 6" pitct

12-#9 v₄(E) bars-

3 hoops minimum top and bottom

3'-0" ¢

8-	21-	1.3
_	_ 1	10

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Default	PLOT DATE = 2/16/2017	DATE -	REVISED -

9'-0" & to &

Approved clamps for grounding*

#6 copper

 $\frac{3}{4}$ " ϕ x 10'-0" copper weld ground rod driven into ground 9'-0". Cost of rod, cable, conduit, caps and clamps shall be included in Drilled Shaft Concrete Foundations.

SIDE ELEVATION

12'-0"

9'-0"

PLAN

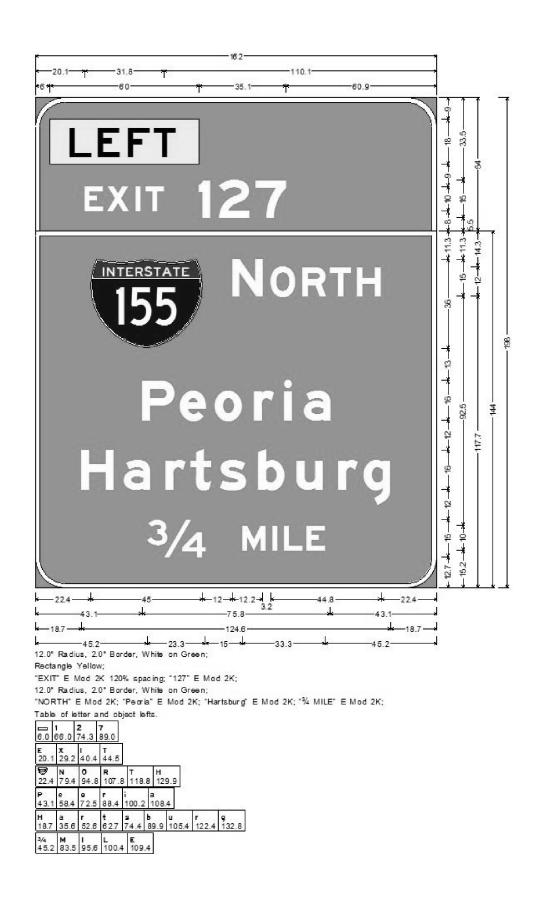
wire or cable

3'-0" ¢

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

OVERHEAD SIGN STRUCTURES							SECTION				
DRILLED SHAFT DETAILS							٥٧	SIN	STR	REP	
	Dilleco	01.711	J								
SHEET	OF	SHEETS	STA.	TO STA.					ILI	L [NOI:	

COUNTY EP 17-09 VAR. 20 13 CONTRACT NO. 46416

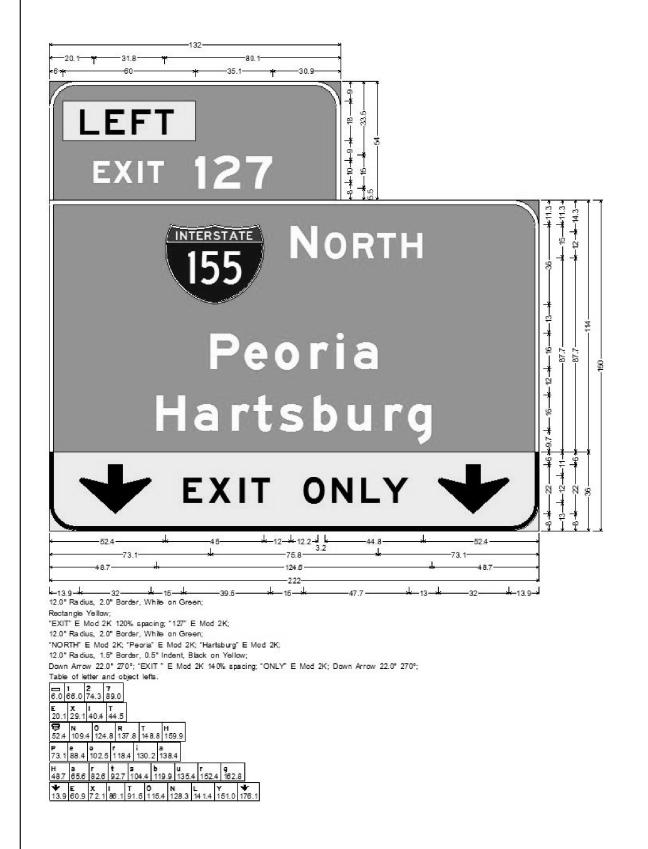






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	SIGN DETAILS 6S054I055R125.9 SHEET OF SHEETS STA. TO STA.						SECTION						COUNTY	TOTAL SHEETS	
							D6	0V S	N S	STR	REP	17-09	VAR.	20	14
													CONTRACT	NO.	46416
										ILL	INOIS	FED. Al	D PROJECT		



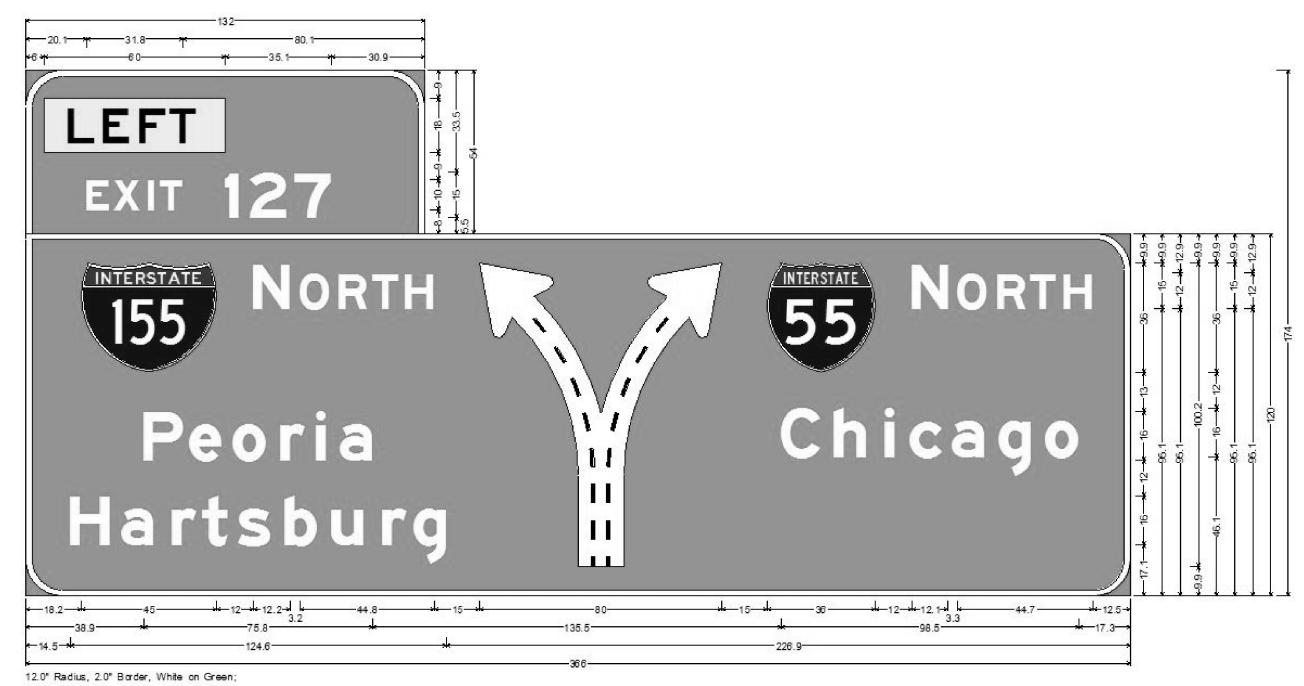


"NORTH" E Mod 2K; "Chicago" E Mod 2K; Down Arrow 22.0" 270°; Down Arrow 22.0" 270°;

Table of letter and object lefts.

₽ 44.9	N 92.9	0 108.3	3	R 121	.3	T 132	.3	H 143	.4	
C 49.7	h 67.2	i 84.1	9	2.3	a 10	06.4	9 12	21.9	o 13	7.4
∜ 11.0	∜ 155.0			155				2	Ò:	

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	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION			0303	041033N1Z0.4				CONTRAC	CT NO. 4	6416
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Rectangle Yellow;

"EXIT" E Mod 2K 120% spacing; "127" E Mod 2K;

12.0" Radius, 2.0" Border, White on Green;

"NORTH" E Mod 2K; "Peloria" E Mod 2K; "Hartsburg" E Mod 2K; Diagrammatic Arrow lane lines Black; "NORTH" E Mod 2K; "Chicago" E Mod 2K; Table of letter and object lefts.

anie	on te	iller a	mu ou	lect le	nta.								
6.0	1 66.0	2 74.3	7 89.0										
E 20.1	X 29.1	I 40.4	T 44.5										
⊕ 18.2	N 75.2	0 90.6	R 103.6	T 114.	H 6 125	5.7 15	0.4 24	5.4	N 293.4	0 308.8	R 321.	T 7 332.	H 8 343.
P 38.9	e 54.2	e 68.3	r 84.2	i 96.0	a 104.2	C 250.2	h 2 267 £	i 3 28	34.6 2	92.7	a 306.8	g 322.3	o 337.8
H 14.5	a 31.4	r 48.4	t 58.5	5 70.2	ь 85.7	u 10 1.2	r 118.2	g 128	.6				

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	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION			620	54I055R126.7				CONTRA	CT NO. 46416
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	Division of Highways

SOIL BORING LOG

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Division of Highways District 6										Date	8/5	5/16
ROUTE I-55 DESCRII	PTION			Sigr	n Trus	s on I-55 NBL at Rt. 10		LOGGE	D BY	N	l. Tapp	oan
SECTION D-6 OVD SIN STR REPL17-09	LOC	ATIO	ON _	NW 1/	4, SEC	C. 27, TWP. 20N, RNG. 3W, 3	РМ					
COUNTY Logan DRII	LLING	MET	HOD	·		HSA HA	MMER	TYPE		140#	Auto	
STRUCT. NO6S054i055R125.9 Station		D E P T	B L O	U C S	M 0 1	Surface Water Elev Stream Bed Elev	N/A N/A	_ ft _ ft	D E P T	B L O	U C S	M 0 1
BORING NO. 1 W. Foundation Station 350+12 Offset 9.0ft RT	_	Н	W S	Qu	S T	Groundwater Elev.:	Dry	_ ft _ ft	Н	W S	Qu	S T
Ground Surface Elev. 579.7 Gray and Brown Moist LOAM to	_ ft	(ft)	/6"	(tsf)	(%)	After 72 Hrs. Brown and Gray Moist Clay	568.7	_ ft	(ft)	/6 "	(tsf)	(%)
CLAY LOAM (Fill)		-				(Fill) (continued)	Loam	558.70	+	0	Ь	-
1000	-	_	1			Very Dark Gray to Olive Bro and Gray Moist SILTY CLA			_	1		
	-		6	1.6	14				\exists	6	5.1	15
	76.20	-	5	S-12					-	12	В	
Olive Brown and Dark Gray Moist SILTY CLAY (Fill) with Some Clay	-		1							1		
Loam (Fill) Seams		-5	2	.80	20				-25	5	2.5	24
	-		3	В		Boring Completed		554.20	-	7	В	
	-					Boning Completed						
Gray and Brown Moist CLAY	72.70		9	2.0	8	Cto le and Eleville Bravided	h		=			
LOAM to SANDY CLAY LOAM		-	7	3.0 P	8	Sta.'s and Elev.'s Provided Dist. 6 Surveys	•		_			
(Fill) 5 Very Dark Gray Moist SILTY	71.20	_	a			Stationing Ref. to Mainline I	-55		_			
CLÁY (Fill) to Brown and Gray	2	-	1						-			
Moist CLAY LOAM (Fill)	_	-10	6	3.0	26				-30			
_	,	+	6	В					-			
-			2									
Black Moist SILTY CLAY (Fill) with Gray Moist Clay Loam (Fill)	7.7		12	2.9	20				-			
Seams with 6" Seam Gray Coarse Sand (Fill)	-	100	6	В								
		-							-			
Brown and Dark Gray	-		1									
	-	-15	4 7	1.7 B	18	.0;			-35			
		-							-30			
Olive and Dark Gray with 4" Seam		-	2						_			
Grayish Brown Coarse Sand and Clay Loam	.0		13	2.2	19							
,	-04.00		7	В					_			
Brown and Gray Moist Clay Loam	61.20								_			

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)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation

SOIL BORING LOG

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Division of Highways District 6									Date	8/8	3/16
ROUTEI-55 DESC		N		Sign	n Trus	s on I-55 NBL at Rt. 10	LOGG	ED BY	/ <u> </u>	1. Tapp	oan
SECTION D-6 OVD SIN STR REPL17-09	LO	CATI	ON _	NW 1/	/4, SE	C. 27, TWP. 20N, RNG.	3W, 3 PM				
COUNTY Logan [RILLING	G ME	THOD			HSA	HAMMER TYPE		140	# Auto	
STRUCT. NO. 6S054i055R125 Station 2 E. Foundation		D E P T	B L O W	U C S	M 0 1 s	Surface Water Elev Stream Bed Elev Groundwater Elev.:	N/A ft	D E P T	B L O W	U C S	M 0 1 8
Station 350+11 Offset 104.0ft RT		H (ft)	S /6"	Qu (tsf)	(%)	☑ First Encounter ☑ Upon Completion	Dry ft	H (ft)	S /6"	Qu (tsf)	T (%)
Dark Gray to Gray Moist CLAY	ft	(11)	70	(131)	(70)	▼ After Hrs. Brown and Gray Moist	t SILTY	(11)	12	В	(70)
LOAM (Fill) with Very Dark Gray Moist Silty Clay (Fill) Seams						CLAY (Fill) (continued	1)	_			
			3 6	3.4	19						
	576.50	_	10	В				_			
Light Brown and Gray Moist SANDY CLAY LOAM (Fill)	370.30	_	3			Brown		_	1		
•		5	4 7	1.7 S-12	14		554.50	-25	3	1.6 B	25
Very Dark Gray Moist SILTY	574.00	_		0 12		Boring Completed	554.50				
CLAY (Fill) with Gray Sandy Clay Loam (Fill) Seams		_	1 5	1.6	25			_			
		-	4	B	25			_			
Brown and Gray Moist CLAY LOAM (Fill)	571.50	_						_			
Sample Broken		-10		4.0	14			-30			
	569.00	-	10	P				_			
Gray Wet Medium SANDY GRAVEL (Fill) with Gray Moist Clay Loam (Fill) Seams		_	2					_			
Clay Loan (Fill) Seams		-	8 10					-			
Gray Moist CLAY LOAM (Fill) wit	<u>566.50</u>	_						_			
3" Seam Gray Medium Sandy Gravel		-15	1 8	1.7	15	-		-35			
			9	S-12							
Brown and Gray		_	1								
Diowii and Gray		_	4 7	1.5 B	16	-		1-1			
	561.50		/	В				_			
Brown and Gray Moist SILTY											

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)

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SOIL BORING LOG

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sion of Highways Date 7/29/16

 ROUTE
 I-55
 DESCRIPTION
 Sign Truss on I-55 NBL at MM 126.4
 LOGGED BY
 M. Tappan

 D-6 OVD SIN STR
 REPL17-09
 LOCATION
 SW 1/4, SEC. 22, TWP. 20N, RNG. 3W, 3 PM
 SW 1/4, SEC. 22, TWP. 20N, RNG. 3W, 3 PM

SECTION REPL17-0	9 LO	CATION _	SW 1/4	4, SE	C. 22, TWP. 20N, RNG. 3W	, 3 PM				
COUNTY Logan	_ DRILLING	METHOD	-		HSA F	HAMMER TYPE		140 #	# Auto	
STRUCT. NO6S054i055i		D B E L P O T W	U C S	M O I S	Surface Water Elev Stream Bed Elev	N/A ft	D E P T	B L O W	U C S	M 0 1 S
Station 3 W. Found Offset 2.0ft R Ground Surface Elev. 5	9 T	H S (ft) /6"	Qu (tsf)	T (%)	Groundwater Elev.: □ First Encounter □ Upon Completion □ After12 DaysHrs.	Washed ft	Н	S /6"	Qu (tsf)	T (%)
Olive Brown and Dark Gray I SILTY CLAY (Fill) Rock/Concrete in top 3'	Moist	_			Gray Wet Medium to Coa SAND (continued)	arse		4		
Hook concrete in top 3					Gray Medium to Coarse S GRAVEL Washed	SANDY		2 5 9		
	¥	1 -5 2 5	2.2 B	24	Gray Medium SAND with 1/2" Gravel Washed	ı Some	-25	1 2 2		
Very Dark Gray Moist SILTY CLAY (Fill)		2 3 5	2.6 B	21	Gray Fine to Medium SAI Washed	ND		2 3 5		
	,	2 ₁₀ 2	2.4	23			-30	3		
		6	В				_	3		
Very Dark Gray Moist SILTY CLAY (Fill)	549.20	- 2 - 3 6	1.8 B	23			=			
Gray Moist LOAM to Gray Medium SAND	oist									
	546.70	1 -15 1 3	.50 P	17	Gray Fine SAND Washed	526.70	-35	7 11		
Gray Wet Medium to Coarse SAND					Boring Completed	020.70				
		_ 2 _ 3			Sta.'s and Elev.'s Provide Dist. 6 Surveys Ref. Stationing to I-55 Ma					
With Some 1/2" - 3/4" Gravel		1								

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)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation

SOIL BORING LOG

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Date <u>7/28/16</u>

COUNTY Logan D	RILLING	ME	THOD			HSA	HAMMER	TYPE		140	# Auto	
STRUCT. NO. 6S054i055R126 Station BORING NO. 4 E. Foundation Station 373+34		D E P T H	B L O W S	U C S	M O I S T	Surface Water Elev Stream Bed Elev Groundwater Elev.: First Encounter	N/A	_ ft	D E P T H	B L O W S	U C S Qu	M O I S T
Station 373+34 Offset 90.0ft RT Ground Surface Elev. 561.0	ft	(ft)	/6"	(tsf)	(%)	▼ Upon Completion _ ▼ Afterl3 DaysHrs	vvasned	_π	(ft)	/6"	(tsf)	(%)
Dark Gray Moist SILTY CLAY (Fill)	34(14-5)					Gray Fine to Medium S (continued)	AND	-1/-		3		
()		_	0			Gray Medium to Coarse GRAVEL	SANDY		-	1		
	Ā	_	2	.90 B	25	Washed			_	3		
Olive to Very Dark Gray Moist		_	1			With 3" seam Gray Moi	st Clay			6		
SILTY CLAY (Fill)		-5	2 6	2.2 B	24	Washed			-25	6 5		
Maria Barda Corre		=	0			Poor Recovery Washed			\exists	_		
Very Dark Gray		_	0 2 6	2.6 B	23	Washed			7	5 10 12		
Olive Brown and Very Dark Gray		_	1									
		-10	4 7	2.1 B	20	Boxing Completed		530.50	-30	9 15		
			1			Boring Completed				15		
			4 5	2.1 B	29							
Gray Moist SILTY CLAY LOAM	547.00	-	0						=			
with Very Fine Gray Sand Seams		-15	1 2	.80 B	26				-35			
Gray Fine to Medium SAND	545.00	-	0						-			
		_	1 4						_			
Gray Medium to Coarse SAND with Some 1/2" Pea Gravel		_	0						_			

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

	Illinois Department of Transportation
(A)	of Transportation

SOIL BORING LOG

Page 1 of 1

Date 8/1/16 DESCRIPTION Sign Truss I-55 NBL at MM 126.7 LOGGED BY M. Tappan

D-6 OVD SIN STR

SECTION D-6 OVD SIN STR REPL17-09	LO	CATIO	ON _	SW 1/	4, SEC	2. 22, TWP. 20N, RNG. 3	W, 3 PM					
COUNTY Logan D	RILLING	à MET	THOD			HSA	HAMMER	TYPE	32-311-315	140	# Auto	
STRUCT. NO. 6S054i55R126. Station 5 E. Foundation Station 391+84 Offset 50.0ft RT		D E P T H	B L O W S	U C S Qu (tsf)	M O I S T	Surface Water Elev Stream Bed Elev Groundwater Elev.: \$\overline{\tilde{Y}}\$ First Encounter \$\overline{\tilde{Y}}\$ Upon Completion	N/A 546.3 Washed	_ ft _ ft	D E P T H	B L O W S	U C S Qu (tsf)	M O I S T
Ground Surface Elev. 555.3 Gray and Brown Moist SILTY	ft	(11)	70	(tsi)	(/0)	▼ After 9 Days Hrs. Gray Moist CLAY LOA		_ π	(11)	2	P	(/0)
CLÁY LOAM (Fill)		\exists				Washed (continued)			\Box			
		\dashv	1			Washed			-	3		
		22	3	2.0 B	18				_	5 7	3.4 B	12
			-							-		
Grayish Brown			2			Gray Moist CLAY LOA	M (Till)			1		
	3	-5	4	1.0	17		(,)		-25	7	4.3	10
	549.30	-	2	S-13					+	12	В	
Olive Brown and Gray Moist SILTY CLAY (Fill) Poor Recovery	Ţ	=	1 3 2	.70 P	21				=			
Gray and Brown Wet SAND	546.80	- 1							-			
LOAM		-	0	.0	22					5	7.2	10
		-10		Slump	1070000			524.80	-30	28	S-10	10
Grayish Brown Medium SAND	544.30		0 1 1			Boring Completed Sta.'s and Elev.'s Prov Dist. 6 Surveys Ref. Stationing to I-55						
Gray Medium SANDY GRAVEL Washed		-15	1 2 2						-35			
With 4" Seam Light Olive Gray Very Moist Silty Clay Washed			4 2 2									
Gray Moist CLAY LOAM (Till) Washed	536.80		0									

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)

-20 0 1.2 15

FILE NAME = USER NAME = dudleybm DESIGNED -REVISED 0:\OPERATIONS\Bridges\Brid plans_CAD\46416 - sign trusses 2017\revised plansheet. DRAWN REVISED CHECKED -REVISED PLOT DATE = 2/16/2017 REVISED DATE

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

TOTAL SHEET NO. 20 19 SECTION COUNTY SOIL BORING LOG VAR. D6 OV SIN STR REP 17-09 VAR. 6S054I055R126.7 CONTRACT NO. 46416 SCALE: SHEET SHEETS STA. TO STA.

Illinois Department of Transportation

SOIL BORING LOG

SECTIONREPL17-09			-				,					
COUNTY Logan D	RILLING	3 ME	THOD			HSA	HAMMER T	YPE .		140	# Auto	
STRUCT. NO. 6S054i55R126.	n	D E P T H	B L O W S	U C S Qu (tsf)	M O I S T	Surface Water Elev. Stream Bed Elev. Groundwater Elev.: First Encounter Upon Completion After 6 Days Hrs.	N/A 544.9 Washed	ft ft ft	D E P T H	B L O W S	U C S Qu (tsf)	M O I S T
Gray and Brown Moist SILTY CLAY (Fill)		_				Gray Fine SANDY GR. Washed (continued)	AVEL			3		
OLAT (TIII)						vvasnea (seriaraea)			=			
			3	2.2	17	Gray Very Moist CLAY	LOAM.	536.90		1	.60	22
		-	5	B	17	(Till)	LOAW		-	2	.00 B	22
		-										
Brown and Gray with Some Loam	Ě		2			Light Tannish Gray Mo	nist CLAY		-	2		
Seams		-5	2	2.4	16	LŎAM (Till)	JOT OLY (1		-25	6	6.0	13
			8	В		Washed			7	11	S-13	
		_				40			\dashv			
Dark Gray Moist SILTY CLAY		=	2									
(Fill)			6	3.7	22							
			7	В					-			
	549.90	8							-			
Very Dark Gray Moist SILTY CLAY		-	1	17	00	Gray Moist CLAY LOA	M (Till)			2	7.0	9
OLAT		10	4	1.7 B	26		9	528.40	-30	19 30	7.0 S-10	9
		; 		_		Boring Completed		320.40				
Drawn and Cray	Ā	_	1									
Brown and Gray			1	.80	28							
		_	2	В								
		_							_			
Gray Wet LOAM with Gray Wet	544.90		0						_			
Medium to Coarse SAND at 15.5'		-15		.10	24				-35			
Crov Fine CANDY CDAVEL	543.40	_	2	В					-35			
Gray Fine SANDY GRAVEL Washed									-			
			1									
		-	1 3			G.						
			3	-								
		_							§ - -			
Washed			2	1	1	II					1	

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

Illinois Department of Transportation Division of Highways

SOIL BORING LOG

Page <u>1</u> of <u>1</u>

Date12-21/12-28-16

ROUTEI-72 DESC	EI-72 DESCRIPTION Interchange						pet	LOGGE	GGED BY		M. Tappan		
SECTION N/A	LO	CATIO	ON _	W 1/2	, SEC.	2, TWP. 4S, RNG. 8W, 4	PM						
COUNTY Pike D	RILLING	MET	ETHOD HSA			HSA	HAMMER	TYPE	140# Auto				
STRUCT. NO. 6S075I072R003 Station		D E P	B L O	U C S	M O I	Surface Water Elev Stream Bed Elev	N/A N/A	_ ft _ ft	D E P	B L O	U C S	M O I	
BORING NO. 1 N. Foundation Station 100+21 Offset 10.5ft LT		H (ft)	W S /6"	Qu (tof)	S T	Groundwater Elev.:	448.4 Plugged	ft	H (ft)	W S /6"	Qu (tsf)	S T	
Ground Surface Elev. 464.4	ft	(π)	/6	(tsf)	(%)	▼ After Hrs Gray Wet Fine to Med		_ ft	(π)	/6	(tSI)	(%)	
Gray and Tan Moist LOAM to CLAY LOAM (Fill)		_	1			FREE WATER Auto Hammer Broke (c			_	3			
			1	1.0	21	Washed			_	3			
			3	В						3			
Light Brown		_	1						_	1			
			2	.90	14	Gray Med SAND				3			
		<u>-5</u>	4	В		w/ some Fine Gravel			<u>-25</u>	3			
		_							_				
			2										
			6 .	1.7	22								
		_	5	В		-			_				
Gray and Brown Moist CLAY	455.40		3							7			
LOAM (Fill) with Angular Cherty Gravel to Gray Moist CIAY LOAM			4	1.9	24	Gray Med to Coarse So w/ some 1/4" Pea Gray				8			
(Fill)		10	5	S-13		washed	/ei	434.40	-30	10			
Dark GRay Moist SILTY CLAY (Fill	1)	_				Boring Complete		_	_				
	452.90		1										
Dk Gray V. Moist SILTY CLAY LOAM to SILTY CLAY			2	.60 B	28								
	451.40	_							_				
Gray Wet SILTY CLAY	101.10												
w/ Loam seams and Woody Organics			0	10	200								
		45	1	.10 B	30								
		15		-					35				
\bigvee													
_	447.90		0 1			-			_				
Gray Wet Fine to Med SAND FREE WATER			2										
Auto Hammer Broke		_	_			1			_				
			_										
Gray Wet Fine to Med SAND			3			-							
12-28-16		-20	2						-40				

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



SOIL BORING LOG

Sign Truss I-72 EBL 1 Mile S. of Trumpet

Page <u>1</u> of <u>1</u>

Date 12/28/16

ROUTE I-72 DESC	RIPTION			ngii iii	Interchange				LOGGED BY		M. Tappan		
SECTION N/A	LO	CATIO	ON _	W 1/2	SEC.	2, TWP. 4S, RNG. 8W, 4	PM						
COUNTY Pike D	RILLING	MET	HOD			HSA	HAMMER	TYPE		# Auto			
STRUCT. NO6S075I072R003. Station		D E P	B L O	U C S	M O I	Surface Water Elev Stream Bed Elev			D E P	B L O	U C S	M O I	
Station 2 S. Foundation Offset 43.0ft RT	_	H	W S	Qu	S T	Groundwater Elev.: ☑ First Encounter ☑ Upon Completion	448.3 Washed	_ ft _ ft	H	W S	Qu	S T	
Ground Surface Elev. 464.8 Brown Moist SILTY CLAY (Fill)	ft	(ft)	/6"	(tsf)	(%)	▼ After Hrs. Tan and Gray Moist Fire	Plugged	_ ft	(ft)	/6"	(tsf)	(%)	
w/ Brown Clay Loam (Till) Seams						(continued)	IIE SAND						
		-	2	5.2	13	washed			+	2			
			4	В					\exists	3			
		_	2						_	1			
Gray and Brown			4 4	2.6 B	17	Gray Dirty Med Sandy	Gravel		-25	1 4			
		_							-				
Gray Moist SILT LOAM (Fill)	458.30		3	1.8	21				\exists				
	456.80		6	S-12									
Tan and Gray Moist LOAM to SAND LOAM (sample broken)	430.80		2							4			
(Sample brokerr)		-10	2		21	Gray Med to Coarse S	AND	434.80	-30	4 6			
Tan and Gray Moist Fine SAND	454.30					Boring Complete		10 1.00	-				
Tan and Gray Wolse File GARD			1										
		-	2						-				
		$\overline{}$							$\overline{}$				
Brown Wet Med SAND		\Box	0										
w/ Gray Silt Loam Seam		 15	2						-35				
		-											
Brown Med SAND		\neg	0										
FREE WATER			1						ᆿ				
		=	0						=				

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

FILE NAME =	USER NAME = dudleybm	DESIGNED -	REVISED -
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	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -
Default	PLOT DATE = 2/16/2017	DATE -	REVISED -

File Name S:\SOILS\GINT FILES\075 PIKE\SIGN Latitude 39D 44.230\N Longitude 91D 18.493\W D

STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTAT	ION

Gray Med SAND

SOIL BORING LOG 6S0751072R003.1							SECTION						COUNTY	TOTAL	SHEE NO.
							D6	0٧	SIN	STR	REP	17-09	VAR.	20	20
													CONTRAC	T NO.	46416
SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT									