03-06-2015 LETTING ITEM 163

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

VARIOUS ROUTES D-5 OVD SIN STR REPL 2015-12 MCLEAN & PIATT COUNTIES Sheet 1 of 22 Contract Number 46339

DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

VARIOUS ROUTES D-5 OVD SIN STR REPL 2015-12 MCLEAN & PIATT COUNTIFS

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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS APPROVED Tom 30 20 15 Oner Osman RE &

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

CONTRACT NO. 46339

SUMMARY OF QUANTITIES

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	MCLEAN CO. RURAL 100% STATE 0040	PIATT CO. RURAL 100% STATE 0040
67100100	MOBILIZATION	L SUM	1.00	0.75	0.2
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	1.00	0.00	1.
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1.00	0.00	1.
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1.00	1.00	0,
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1.00	1.00	0.0
72000300	SIGN PANEL - TYPE 3	SQFT	501.50	346.50	155.
72400330	REMOVE SIGN PANEL - TYPE 3	SQFT	527.75	387.75	140.0
72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	1085.50	0.00	1085.
73301840	OVERHEAD SIGN STRUCTURE WALKWAY, CANTILEVER, TYPE A	FOOT	72.50	72.50	0.
73302170	OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE II-C-A (36" X 5'-6")	FOOT	56.00	56.00	0.0
73302210	OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE III-C-A (36" X 7"-0")	FOOT	37.00	37.00	0.0
73400100	CONCRETE FOUNDATIONS	CUYD	2.54	0,00	2.
73400200	DRILLED SHAFT CONCRETE FOUNDATIONS	CUYD	30.50	30.50	0.1
73600200	REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	3.00	3,00	0,
73602000	REMOVE OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED	EACH	1.00	0.00	1,
73700300	REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	3.00	3.00	0.0
84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1.00	1.00	0.0
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	33.00	27.00	6.0
X8040310	ELECTRICAL SERVICE DISCONNECT	EACH	3,00	2.00	1.0
Z0013798	CONSTRUCTION LAYOUT	LSUM	1.00	0.75	0.2

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GENERAL DESCRIPTION OF FUND CODES: 0040 = SPECIAL BRIDGE - OVERHEAD SIGN STRUCTURES

**MCLEAN & PLATT DESIGNED - JAL FILE NAME : REVISED -USER NAME & prorecorbe STATE OF ILLINOIS p=//IL884EB(DINTEGalla puments\1007 Offices\Cistrict 5\Projects\0545:DRAMODats\8esign\0546339-sht-500.dgn REVISED -SUMMARY OF QUANTITIES PLGT SCALE = 40,0000 1/ in. CHECKED -REVISED -DEPARTMENT OF TRANSPORTATION PLOT CATE . 12/18/2014 REVISED -SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA. DATE

SCHEDULE OF QUANTITIES

CODE NUMBER	PAY ITEM General Location:	UNIT	100% STATE TOTAL QUANTITY	5-01 EB 5C057 S009 R019.20	5-02 WB 5C057 S009 L019 30 LEAN COUN	5-03 WB 5C057 S009 L019.60	5-04 EB 5B074 1072 R165.97 PIATT
	Scope of Work:			C	C	С	GM
67100100	MOBILIZATION	LSUM	1.00	0.25	0.25	0.25	0.25
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	1.00	-	-	-	1.00
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	LSUM	1,00	•	•	-	1.00
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1,00	0.33	0.33	0.34	**
70200100	NIGHTTIME WORK ZONE LIGHTING	LSUM	1.00	-	•	1.00	-
72000300	SIGN PANEL - TYPE 3	SQFT	501.50	99.00	99.00	148.50	155.00
72400330	REMOVE SIGN PANEL - TYPE 3	SQFT	527.75	96.00	108.00	183,75	140.00
72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	1085.50	•	-	•	1085,50
73301840	OVERHEAD SIGN STRUCTURE WALKWAY, CANTILEVER, TYPE A	FOOT	72.50	23.00	23.00	26.50	-
73302170	OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE II-C-A (36" X 5"-6")	FOOT	56,00	28.00	28.00	-	-
73302210	OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE III-C-A (36" X 7'-0")	FOOT	37,00	-	*	37.00	7
73400100	CONCRETE FOUNDATIONS	CUYD	2.54	-	•	-	2.54
73400200	DRILLED SHAFT CONCRETE FOUNDATIONS	CUYD	30.50	9.00	9,00	12.50	=
73600200	REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	3.00	1.00	1.00	1.00	-
73602000	REMOVE OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED	EACH	1.00		-	-	1.00
73700300	REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	3.00	1.00	1,00	1.00	
84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1.00	•	-	1.00	-
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	33,00	9,00	9.00	9.00	6.00
X8040310	ELECTRICAL SERVICE DISCONNECT	EACH	3,00	1.00	1,00	*	1.00
Z0013798	CONSTRUCTION LAYOUT	LSUM	1,00	0,25	0,25	0.25	0,25

C = Overhead Sign Structure Replacement w/ Cantilever
GM = Bridge Mount Sign Structure Replacement w/ Breakaway Ground Mount

**MCLEAN & PIATT

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SCHEDULE OF QUANTITIES

Location No.	5-01		
Structure No.	5 C 057 S009 R019.20		
County / Route	MCLEAN CO IL 9 EB - West of Veterans Parkway	· house	
Scope of Work	This overhead cantilever is being replaced on a new drilled shaft foundation.		
CODE NUMBER	PAY ITEM	UNIT	QUANTITY
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	LSUM	0.3
72000300	SIGN PANEL - TYPE 3	SQFT	99.0
72400330	REMOVE SIGN PANEL - TYPE 3	SQFT	96.0
73301840	OVERHEAD SIGN STRUCTURE WALKWAY, CANTILEVER, TYPE A	FOOT	23.0
73302170	OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE II-C-A (36" X 5'-6")	FOOT	28,0
73400200	DRILLED SHAFT CONCRETE FOUNDATIONS	CUYD	9.0
73600200	REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1,0
73700300	REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	1.0
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	9.0
X8040310	ELECTRICAL SERVICE DISCONNECT	EACH	1.0
Z0013798	CONSTRUCTION LAYOUT	LSUM	0.2

Location No.	5-02		
Structure No.	5 C 057 8009 L019.30		
County / Route	MCLEAN CO IL 9 WB - East of Veterans Parkway		
Scope of Work	This overhead cantilever is being replaced on a new drilled shaft foundation.		
CODE NUMBER	PAY ITEM	UNIT	QUANTITY
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	0.33
72000300	SIGN PANEL - TYPE 3	SQFT	99.00
72400330	REMOVE SIGN PANEL - TYPE 3	SQFT	108.00
73301840	OVERHEAD SIGN STRUCTURE WALKWAY, CANTILEVER, TYPE A	FOOT	23.00
73302170	OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE II-C-A (36" X 5'-6")	FOOT	28.00
73400200	DRILLED SHAFT CONCRETE FOUNDATIONS	CUYD	9.00
73600200	REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1.00
73700300	REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	1.00
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	9.00
X8040310	ELECTRICAL SERVICE DISCONNECT	EACH	1.00
Z0013798	CONSTRUCTION LAYOUT	L SUM	0.25

Location No.	5-03		
Structure No.	5 C 057 S009 L019.60		
County / Route	MCLEAN CO IL 9 WB - East of Veterans Parkway	Anadolicustry	
Scope of Work	This overhead cantilever is being replaced on a new drilled shaft foundation.		
CODE NUMBER	PAY ITEM	UNIT	QUANTITY
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	LSUM	0
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1.1
72000300	SIGN PANEL - TYPE 3	SQFT	148,
72400330	REMOVE SIGN PANEL - TYPE 3	SQFT	183.
73301840	OVERHEAD SIGN STRUCTURE WALKWAY, CANTILEVER, TYPE A	FOOT	26.
73302210	OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE III-C-A (36" X 7'-0")	FOOT	37.
73400200	DRILLED SHAFT CONCRETE FOUNDATIONS	CUYD	12,
73600200	REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1.0
73700300	REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	1.0
84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1.
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	9.
Z0013798	CONSTRUCTION LAYOUT	L SUM	0.

Location No.	5-04		
Structure No.	5 B 074 I072 R165.97		
County / Route	PIATT CO I-72 EB under IL 105 / Market St Bridge # 074-0071		
Scope of Work	This bridge mounted truss is to be removed & replaced with a breakaway ground mount.		
CODE NUMBER	PAY ITEM	UNIT	QUANTITY
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	1.00
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	LSUM	1.00
72000300	SIGN PANEL - TYPE 3	SQFT	155.00
72400330	REMOVE SIGN PANEL - TYPE 3	SQFT	140.00
72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	1085.50
73400100	CONCRETE FOUNDATIONS	CUYD	2.54
73602000	REMOVE OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED	EACH	1,00
X7015005	CHANGEABLE MESSAGE SIGN	ÇAL DA	6.00
X8040310	ELECTRICAL SERVICE DISCONNECT	EACH	1.00
	CONSTRUCTION LAYOUT	LSUM	0.25

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SCHEDULE OF QUANTITIES

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		84	500120 -	REMOVAL OF ELECTRIC SERVICE INSTALLATION
LOCATION NO.	STRUCTURE NO.	UNIT	QUANTITY	DESCRIPTION
5-03	5 C 057 S009 L019.60	EACH	1.0	Cantilever Truss L019.60 is to have the electric service completely removed. The electric service to be removed is just NW of the sign truss on a wood pole. Work shall be completed in accordance with Section 845 of the Standard Specifications including removal of the wood pole, electric box, and photo-cell box. The photo-cell box is to be salvaged for IDOT. The box is to be given to the Resident Engineer and returned to Kevin Cook in Operations. All other items including the cable between the truss and service pole are to become the property of the Contractor for disposal or salvage.

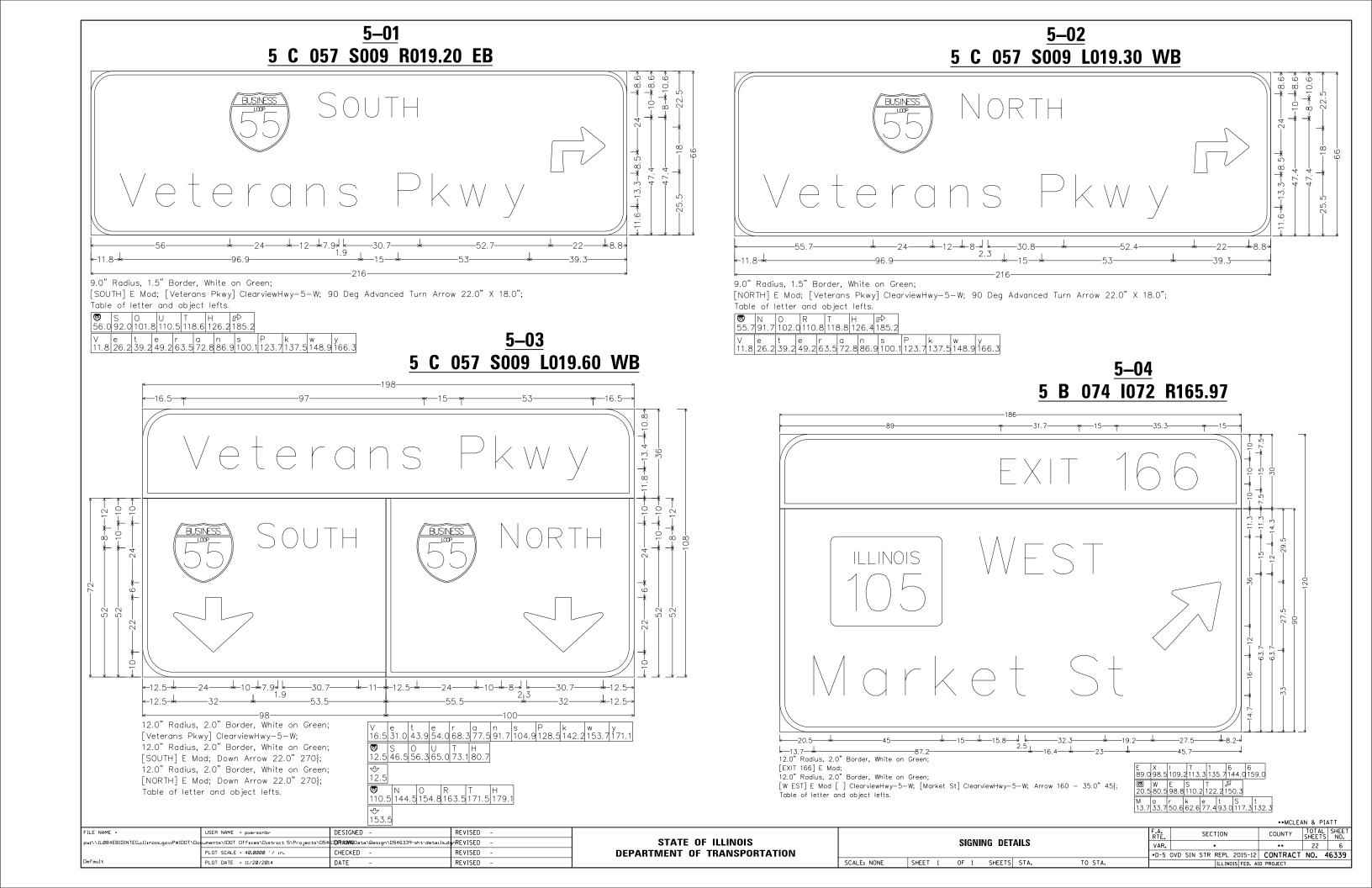
	~		X804	0310 - ELECTRIC SERVICE DISCONNECT
LOCATION NO.	STRUCTURE NO.	UNIT	QUANTITY	DESCRIPTION
5-01	5 C 057 S009 R019.20	EACH	1,0	Lighting for Cantilever Truss # R019.20 is the end of run stubbed from the Tower Light Mast to the NW across IL 9 in the NW quadrant of IL 9 and Veterans Parkway. A view inside the Tower Light access door shows cable to the sign truss labled with a tag. Cables in the unit duct may become property of the Contractor for salvage.
5-02	5 C 057 S009 L019.30	EACH	1.0	Lighting for Cantilever Truss # L019.30 is the end of run stubbed from the nearby Tower Light Mast just West of the truss in the NE quadrant of IL 9 and Veterans Parkway. Cables in the unit duct may become property of the Contractor for salvage.
5-04	5 B 074 1072 R165.97	EACH	1.0	Bridge Mount Truss lighting # 37/601 is end of run stubbed from the junction box on the SW corner of bridge 074-0071. The junction box also services the electrical connection of the highway lighting from the West side of the bridge (light # 37/108) to the East side of the bridge (light # 37/110). Use the junction box to reconnect the electrical circuit and to maintain operation of the existing highway lighting. Conduit and attachment clamps along the fascia beam of the bridge from the Bridge Mount Truss to the main line conduit at the abutment shall be removed. Cable in the conduit from the junction box to Bridge Mount Truss shall be removed and become property of the Contractor for salvage.

See Special Provision - "ELECTRIC SERVICE DISCONNECT" for additional details.

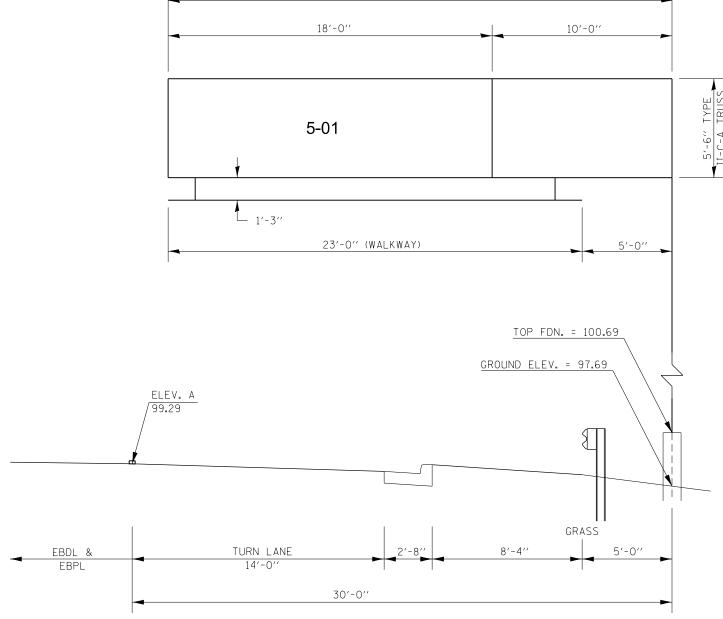
The information provided in this chart and the electrical shown on the plans sheets is the best guess based on "As-Built" plans and by looking in each foundation for the number of unit ducts.

Contractor shall verify the existing path of the electrical circuit and adjust work as needed.

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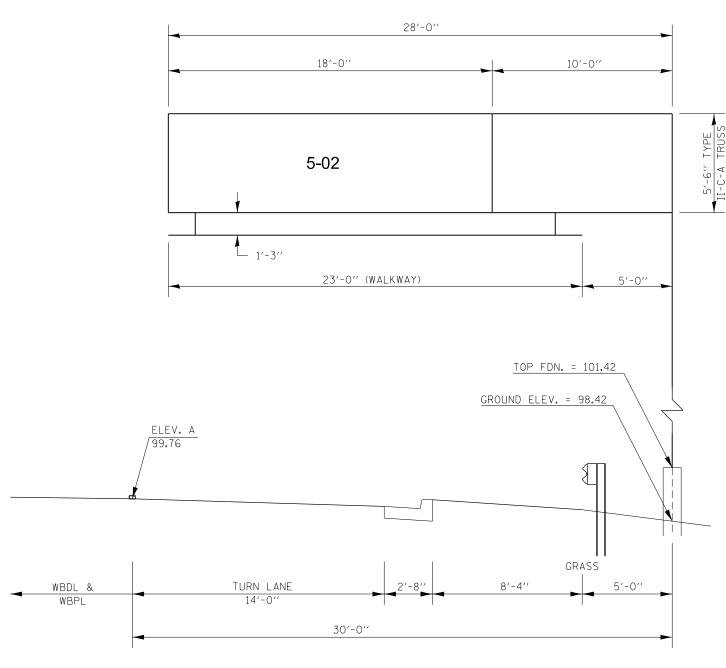


SIGN TRUSS MOUNTING DETAIL 5 C 057 S009 R019.20 28'-0" 18'-0"



TEMP. BENCHMARK = CHIS. "X" ON N. ANCHOR BOLT = 101.83 (FROM 1974 PLANS)

SIGN TRUSS MOUNTING DETAIL 5 C 057 S009 L019.30



TEMP. BENCHMARK = CHIS. "X" ON N. ANCHOR BOLT = 100.77 (FROM 1974 PLANS)

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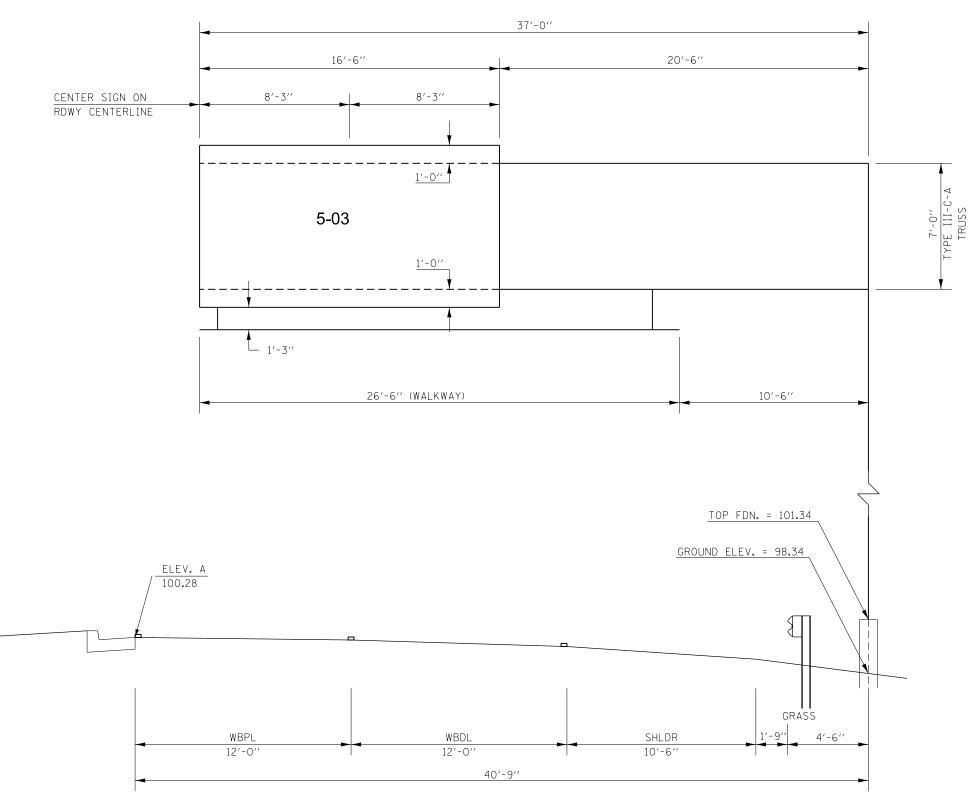
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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

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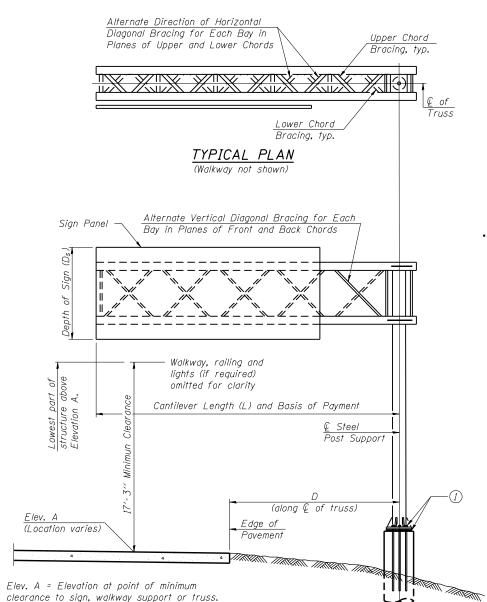
COUNTY •D-5 OVD SIN STR REPL 2014-12 | CONTRACT NO. 46339

SIGN TRUSS MOUNTING DETAIL 5 C 057 S009 L019.60



TEMP. BENCHMARK = CHIS. "X" ON N. ANCHOR BOLT = 101.65 (FROM 1974 PLANS)

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TYPICAL ELEVATION

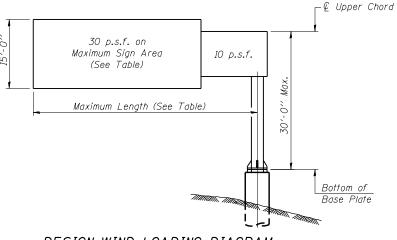
Looking in Direction of Traffic

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	Ds	Total Sign Area
5 C 057 S009 R019.20	160+93	II-C-A 28'-0"		99. 29	••	5′ -6′′	99.0
5 C 057 S009 L019.30	166+65	I I - C - A	28' -0"	99. 76	••	5′ -6′′	99.0
5 C 057 S009 L019.60	182+10	III-C-A	37′ -0′′	100.28	••	9′ -0′′	148.5
			1				

- •• SEE SIGN TRUSS MOUNTING DETAILS
- ••• SUPPORT POST HEIGHTS BASED ON 15'-0" SIGN HEIGHT PER OSC-A-5

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.

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 $f'_{c} = 3.500 \text{ p.s.i.}$

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 permitted.

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

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

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

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

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE I-C-A	Foot	
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE II-C-A	Foot	56.0
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE III-C-A	Foot	37.0
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	Foot	72.5
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	30.5

OSC-A-1

8-21-13

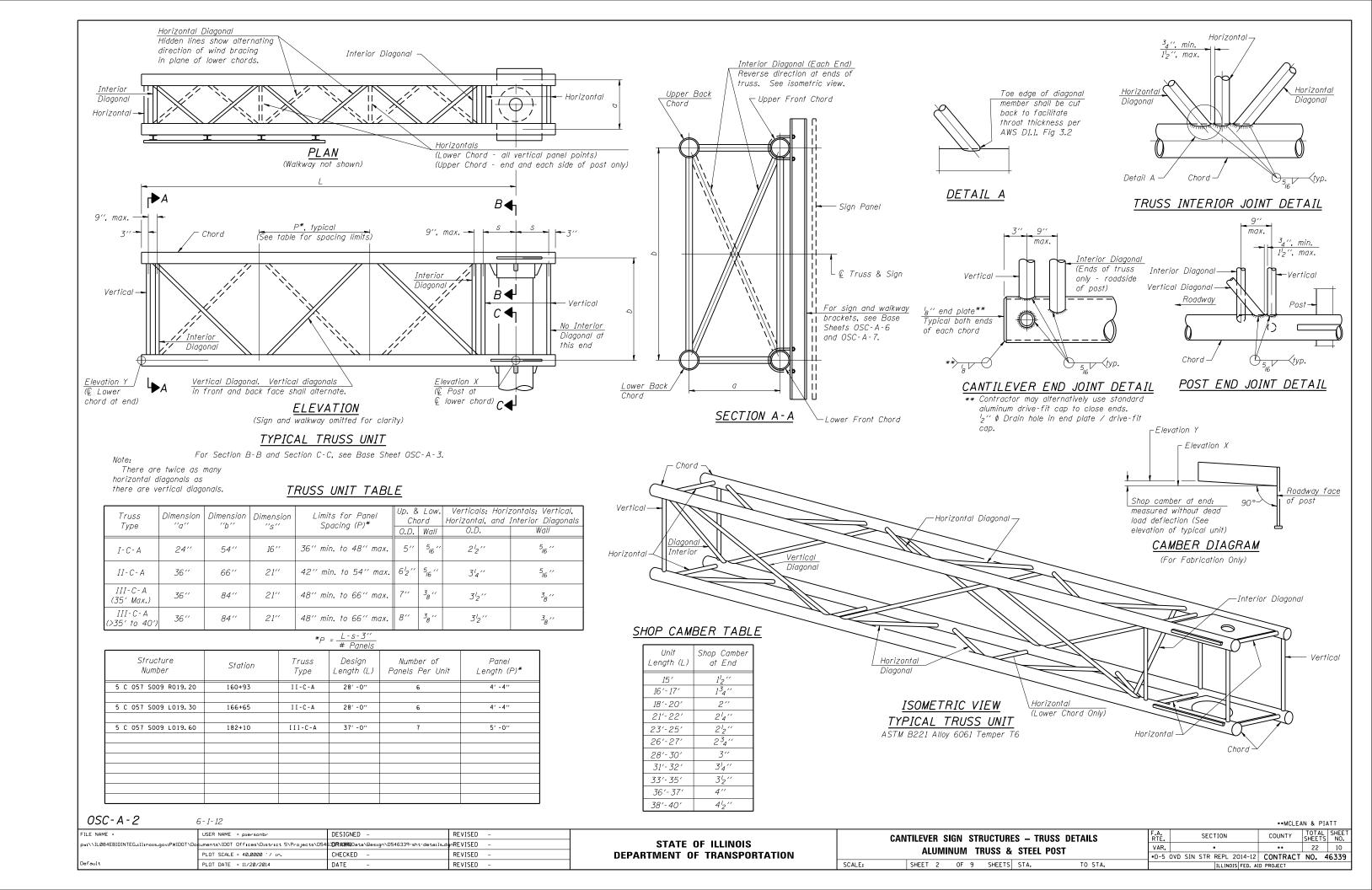
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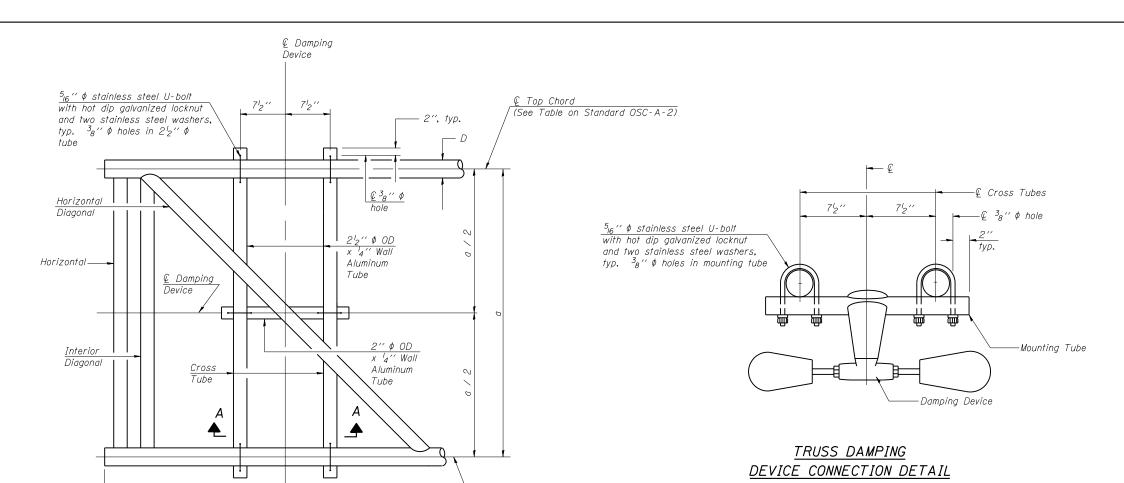
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

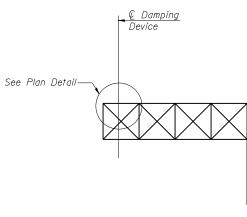
CANTILEVE	R SIGN	STRUC	TURES -	GENERA	L PLAN	& ELEVATION	
	ALI	JMINUN	I TRUSS	& STEE	L POST		
^ A I E .	CHEET	1 05	Q CUE	ETC STA		TO STA	_

.. MCLEAN & PIATT COUNTY

VAR. 22 •D-5 OVD SIN STR REPL 2014-12 | CONTRACT NO. 46339 ILLINOIS FED. AID PROJECT







ELEVATION

Aluminum Cantilever Sign Structure

GENERAL NOTES

Damper:

One damper per truss. (31 lbs. Stockbridge-Type Aluminum-29" minimum between ends of weights)

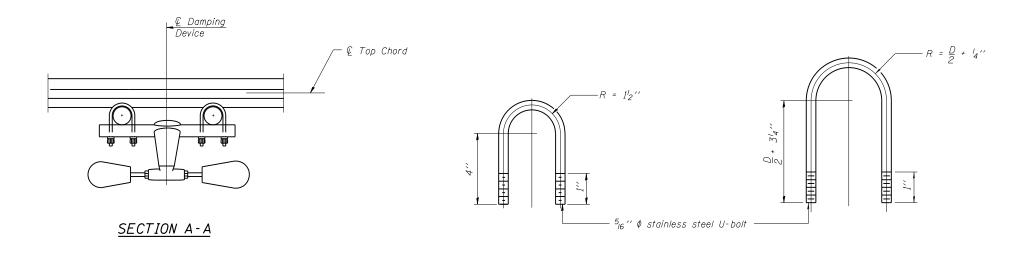
Materials:

Aluminum tubes shall be ASTM B221 alloy 6061

temper T6

PLAN DETAIL

2'-0" (±6")



€ Top Chord

DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL

(Typical)

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

SCALE:

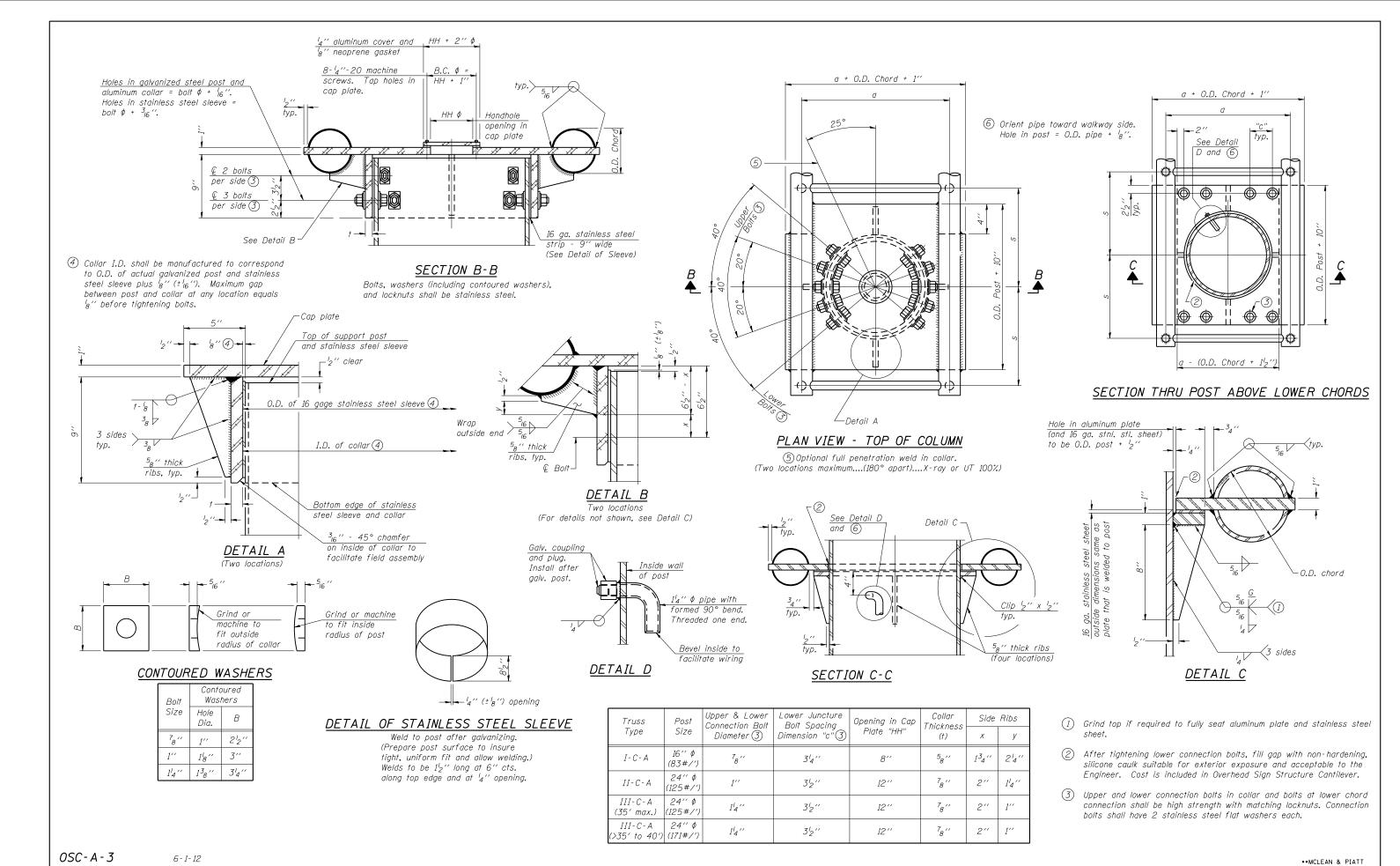
OSC-A-D

6-1-12

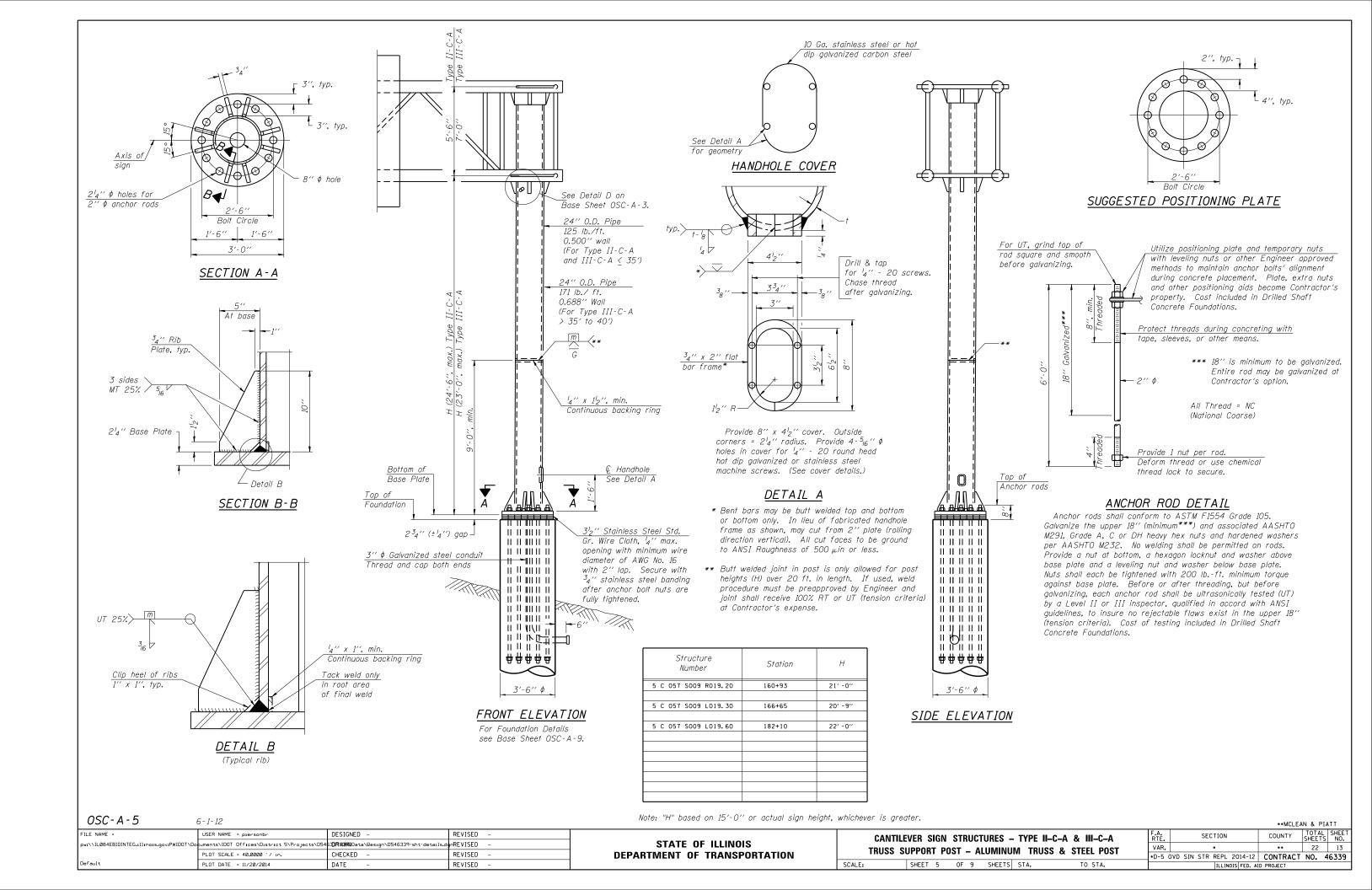
USER NAME = piersonbr DESIGNED -REVISED ow:\\IL084EBIDINTEG.:ll:nois.gov:PWIDOT\C uments\IDOT Offices\District 5\Projects\D54**633RXWMN**Data\Besign\D546339-sht-details. nREVISED CHECKED REVISED REVISED PLOT DATE = 11/20/2014 DATE

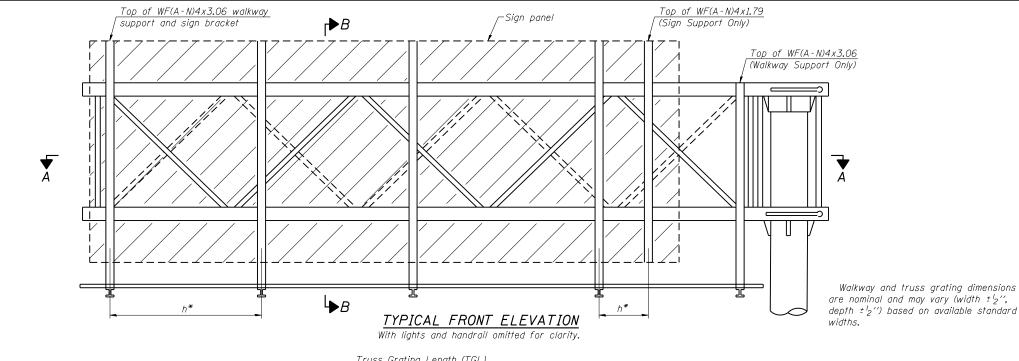
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

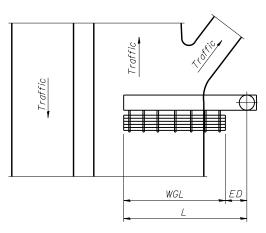
••MCLEAN & PIATT COUNTY TOTAL SHEET SHEETS NO. SECTION **CANTILEVER SIGN STRUCTURE DAMPING DEVICE** •D-5 OVD SIN STR REPL 2014-12 CONTRACT NO. 46339 SHEET 3 OF 9 SHEETS STA. TO STA. ILLINOIS FED. AID PROJECT



DESIGNED -REVISED USER NAME = piersonb SECTION COUNTY **CANTILEVER SIGN STRUCTURES - JUNCTURE DETAILS** STATE OF ILLINOIS ow:\\ILØ84EBIDINTEG.:111:no: ments\IDOT_Offices\District_5\Projects\D5463**BRXXWN**Data\Besign\D546339-sht-details REVISED 22 12 **ALUMINUM TRUSS & STEEL POST** CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** D-5 OVD SIN STR REPL 2014-12 | CONTRACT NO. 46339 SCALE: SHEET 4 OF 9 SHEETS STA. TO STA. PLOT DATE = 11/20/2014 DATE REVISED ILLINOIS FED. AID PROJECT

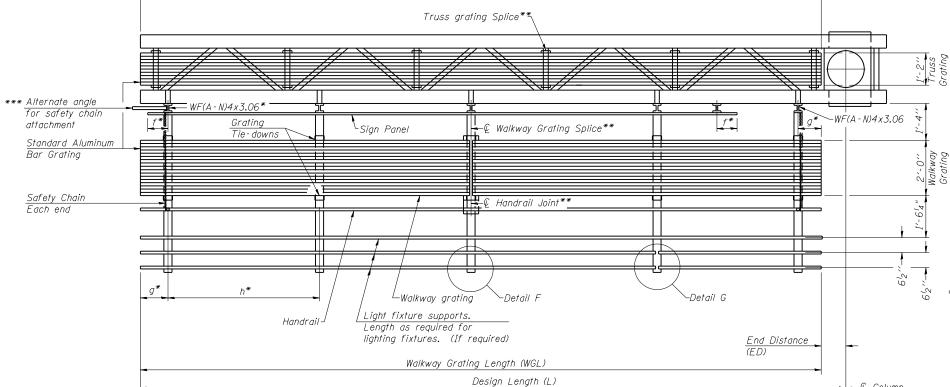






PLAN WALKWAY AND HANDRAIL SKETCH (Road plan beneath truss varies)

Truss Grating Length (TGL) Truss grating Splice*



Structure Number	Station	WGL	ED	TGL
5 C 057 S009 R019.20	160+93	23' -0"	5′ -0′′	26′ -6′′
5 C 057 S009 L019.30	166+65	23′ -0″	5′ -0′′	26′ -6′′
5 C 057 S009 L019.60	182+10	26′ -6′′	10′ -6′′	35′ -6″

- 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 € of nearest bracket)
- g = 12" maximum, 4" minimum (End of walkway to € of nearest bracket) h = 6' - 0'' maximum (\mathbb{Q} to \mathbb{Q} 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

SECTION A-A

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.

 $TGL = L - (\frac{Post \ O.D.}{2} + 6")$

BRACKET TABLE

--- € Column

	.79 or WF(A-N)4 308, Alloy 6061				
Sign W	Number				
Greater Than	Less Than or Equal To	Brackets Required			
	8'-0''	2			
8'-0''	14'-0''	3			
14'-0''	20'-0''	4			
20'-0''	26′-0′′	5			
26′-0′′	32′-0′′	6			

SCALE:

0SC-A-6

6-1-12

Sign Structure Cantilever.

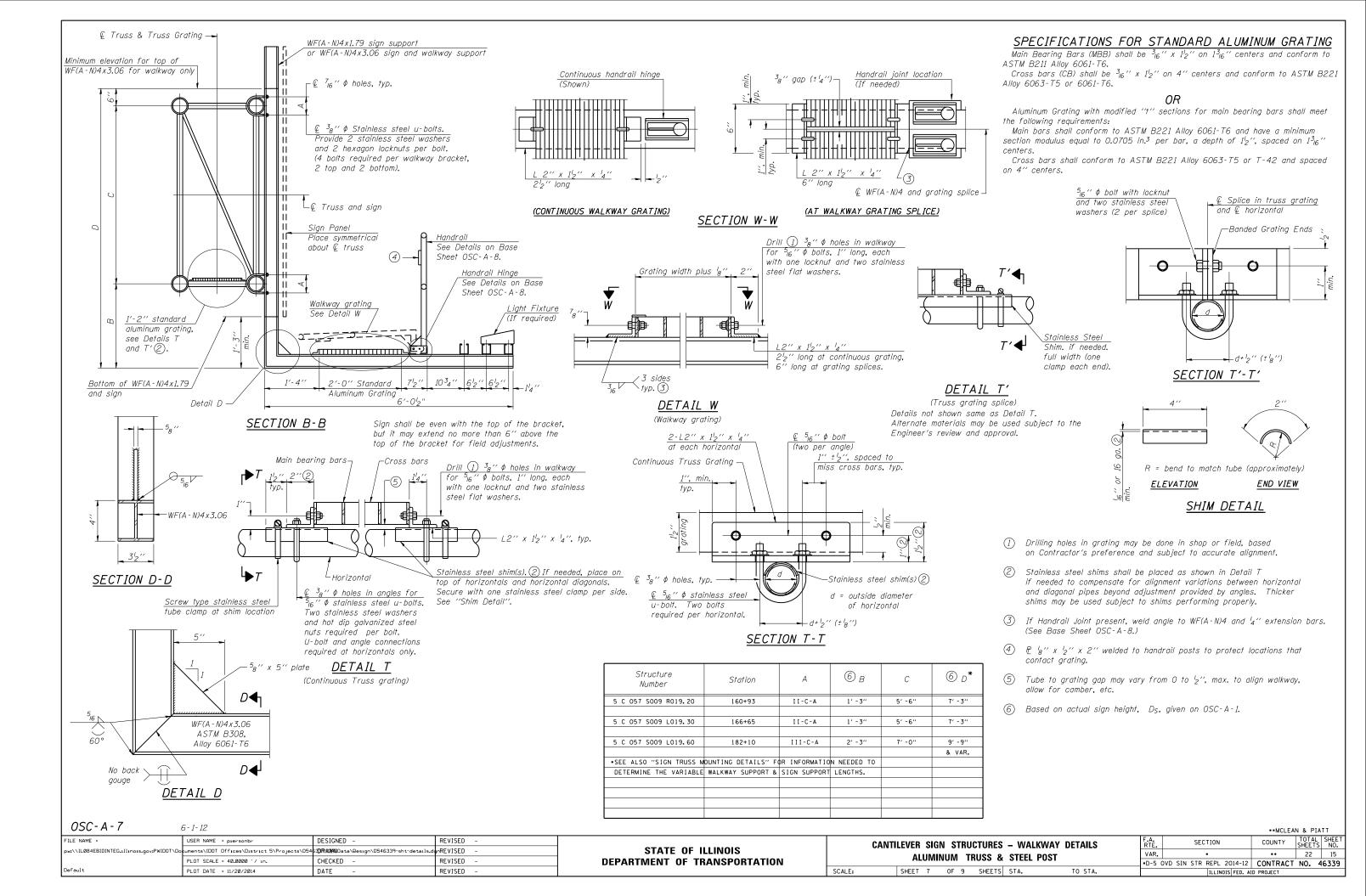
DESIGNED -REVISED USER NAME = piersonbr ow:\\ILØ84EBIDINTEG.:ll:nois uments\IDOT Offices\District 5\Projects\D54**633RXWMN**Data\Besign\D546339-sht-details. REVISED CHECKED REVISED REVISED PLOT DATE = 11/20/2014 DATE

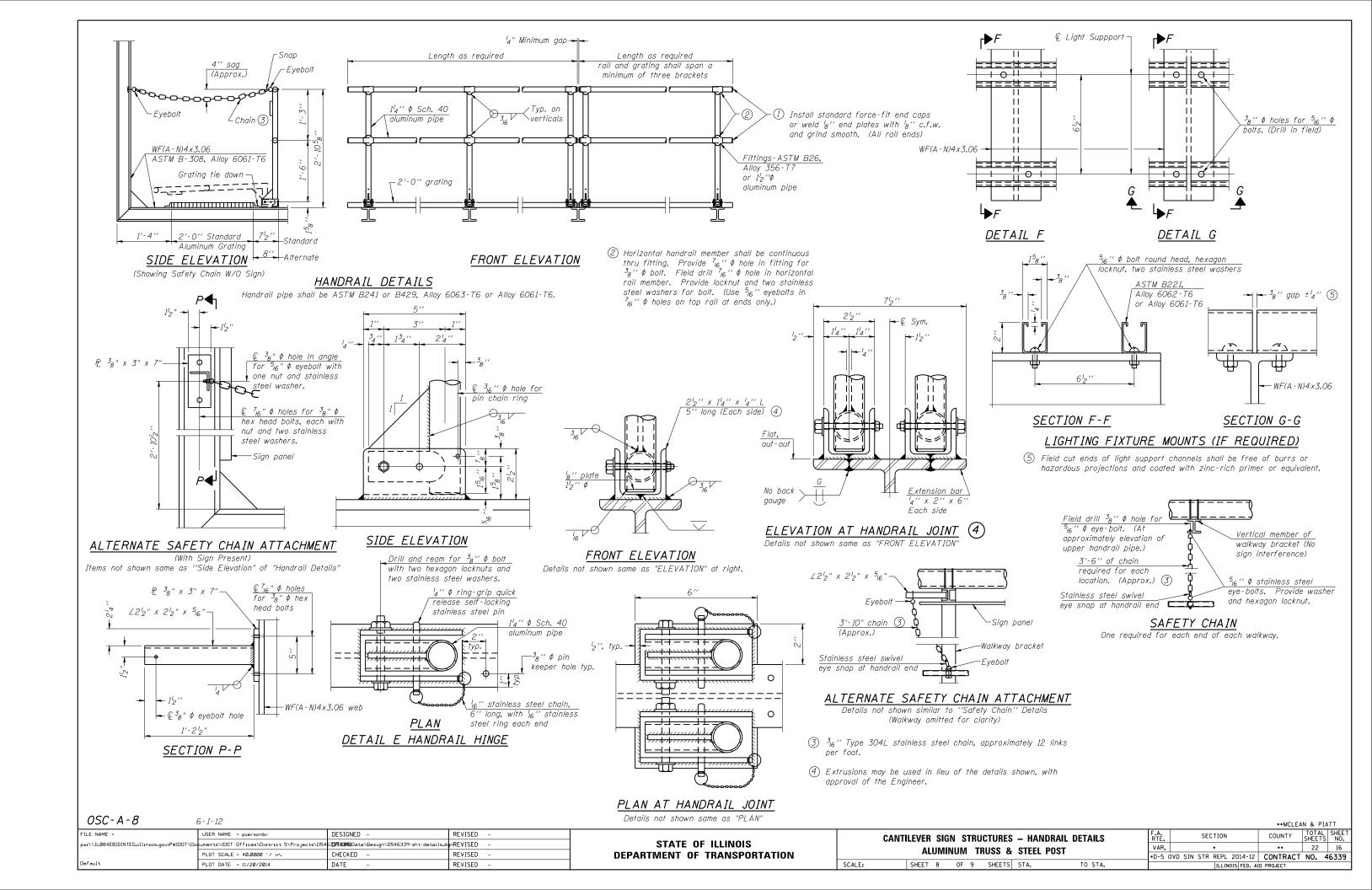
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** CANTILEVER SIGN STRUCTURES - ALUMINUM WALKWAY **DETAILS - ALUMINUM TRUSS & STEEL POST** SHEET 6 OF 9 SHEETS STA.

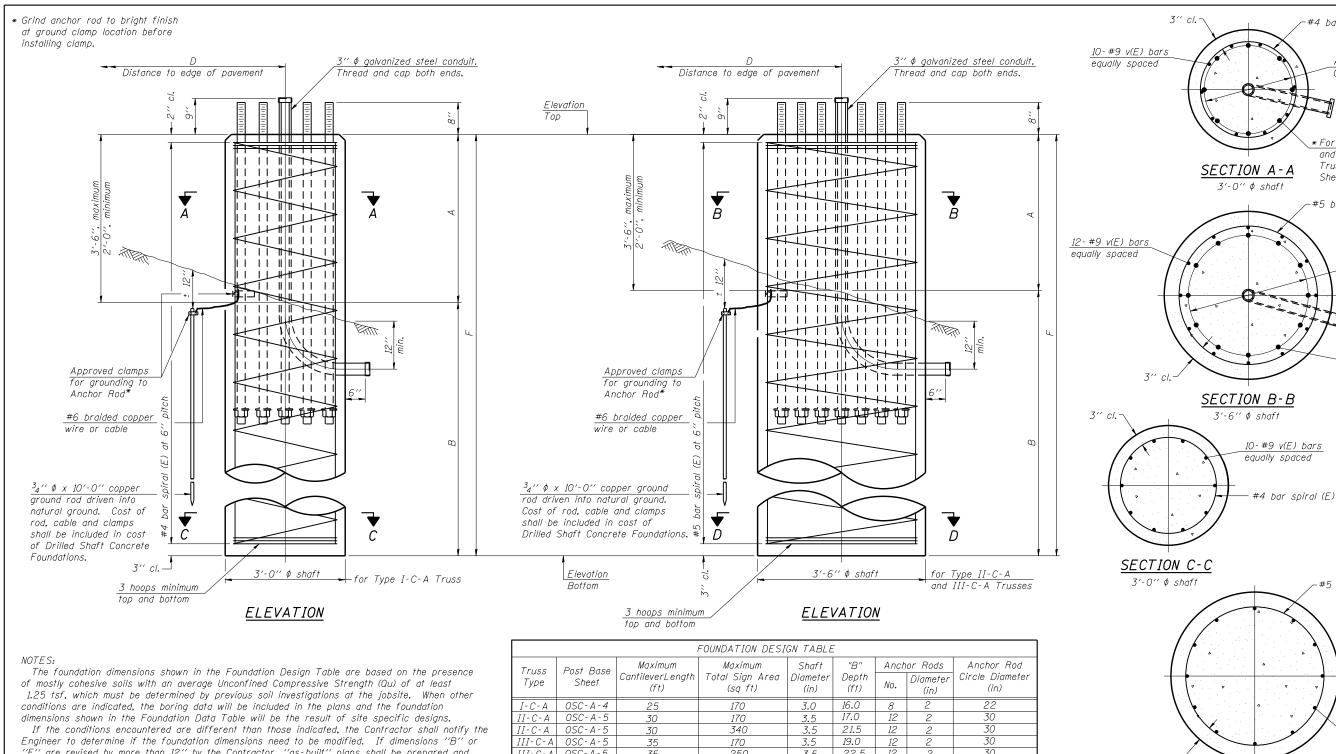
COUNTY TOTAL SHEET SHEETS NO. 22 14

..MCLEAN & PIATT

•D-5 OVD SIN STR REPL 2014-12 CONTRACT NO. 46339 ILLINOIS FED. AID PROJECT







"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.

8-21-13

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

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",

	FOUNDATION DESIGN TABLE													
Truss Type	Post Base Sheet	Maximum CantileverLength (ft)	Maximum Total Sign Area (sq ft)	Shaft Diameter (in)	"B" Depth (ft)	Anch No.	or Rods Diameter (in)	Anchor Rod Circle Diameter (in)						
I-C-A	0SC-A-4	25	170	3.0	16.0	8	2	22						
II-C-A	0SC-A-5	30	170	3.5 3.5	17.0	12	2	30						
II-C-A	0SC-A-5	30	340		21.5	12	2	30						
III-C-A	0SC-A-5	35	170	3. 5	19.0	12	2	30						
III-C-A	0SC-A-5	35	250	3.5	22.5	12	2	30						
III-C-A	0SC-A-5	35	400	3.5	26.5	12	2	30						
III-C-A	0SC-A-5	40	400	3.5	32.0	12	2	30						
	-		-											

			FOUNDAT	ION DATA T	ABLE					
Structure Number	Station	Truss Type	Shaft Diameter	Elevation Top	Elevation Bottom	Qu	А	В	F	Class DS Concrete Cubic Yards
5 C 057 S009 R019.20	160+93	I I - C - A	3′ -6′′	100.69	75.69		3′ -0′′	22' -0"	25′ -0′′	9.0
5 C 057 S009 L019.30	166+65	II-C-A	3′ -6′′	101.42	76. 42		3′ -0′′	22' -0"	25′ -0″	9.0
5 C 057 S009 L019.60	182+10	III-C-A	3′ -6′′	101.34	66. 34		3′ -0′′	32' -0"	35′ -0′′	12.5

SCALE:

OSC-A-9

USER NAME = piersonbr DESIGNED -REVISED w:\\ILØ84EBIDINTEG.:111:no:s.gov:PWIDOT\ ments\IDOT Offices\District 5\Projects\D54 33RXXXXIData\Besign\D546339-sht-details nREVISED PLOT SCALE = 40.0000 '/ in. CHECKED REVISED PLOT DATE = 11/20/2014 REVISED DATE

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

CAN				_		ES – DRILLEI Steel Post	
	SHEET	9	OF	9	SHEETS	STA.	TO STA.

		••MCLEA	N & PIA	TT
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	•	••	22	17
•D-5 (OVD SIN STR REPL 2014-12	CONTRACT	NO. 4	6339
	ILLINOIS FED. A	ID PROJECT		

12-#9 v(E) bars

equally spaced

SECTION D-D

3'-6'' ¢ shaft

-#4 bar spiral (E)

Anchor Rod

Circle Diameter

For details of anchor rods

Truss Support Post Base

Anchor Rod

Circle Diameter

* For details of anchor rods

Truss Support Post Base

and positioning templates see

Sheets OSC-A-4 and OSC-A-5.

#5 bar spiral (E)

-#5 bar spiral (E)

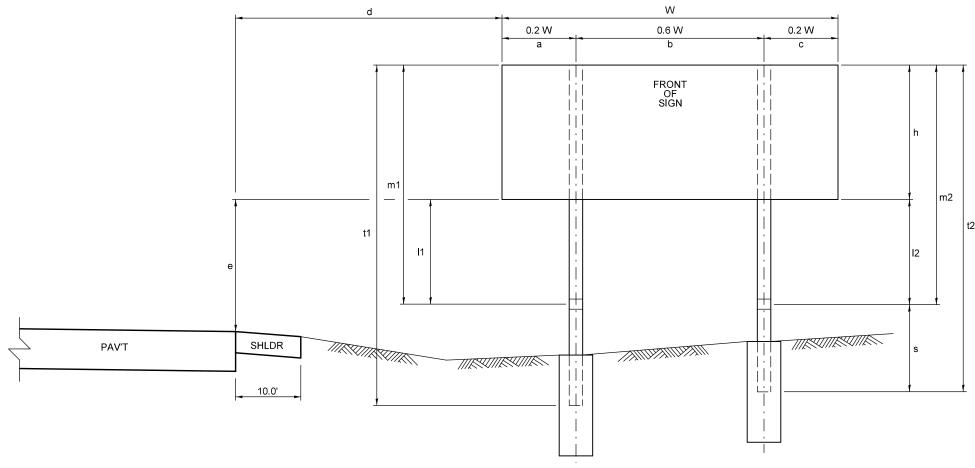
and positioning templates see

Sheets OSC-A-4 and OSC-A-5.

BREAK AWAY GROUND MOUNT SIGNAGE LAYOUT LYNCH ROAD

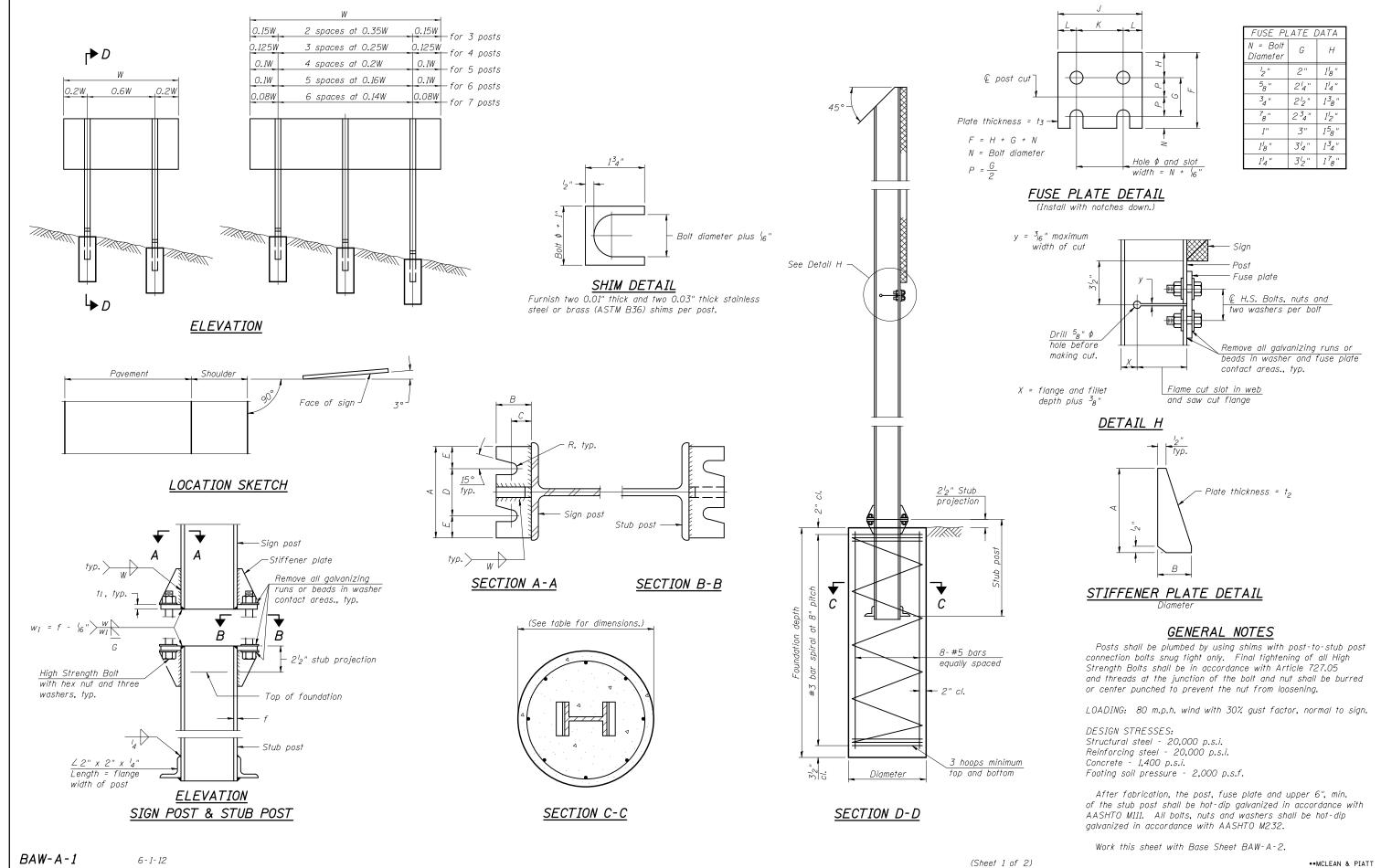
				Sign	Sign				Clear	Sign	leg 1	leg2	main	main	stub	Total	Total	Post	Nominal	Total	Total
Location	Structure No.	Mounting OFFSET to the near edge of sign	Mounting HEIGHT to the bottom edge of sign	Size	Width	0.2W	0.6W	0.2W	Height	Height			post 1	post 2	post	post 1	post 2	Туре	wt.	Weight	Concrete
No.		"d"	"e"	Wxh	w	а	b	С	CH	h	I1	12	m1	m2	s	t1	t2			(both posts)	
				ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft		lbs/ft	lbs	cu yds.
5-04 EB	5 B 074 I072 R165.97	35 feet from white stripe / edge of pavement	7 feet from white stripe / edge of pavement	15.5' x 10.0'	15.5	3.1	9.3	3.1	8.5	10.0	8.5	7.25	18.5	17.25	3.0	21.5	20.25	W10 x 26	26.0	1085.5	2.54
		25 feet from edge of shoulder																			

Location No.	Structure No.	Station - Proposed Location
5-04 EB	5 B 074 I072 R165.97	The proposed breakaway ground mount is to be at Sta. 1462+10. This is 222' west of the west overhead bridge fascia beam.



CH = Clear Height = the greater of I1 or I2

MCLEAN & PIATT FILE NAME = USER NAME = piersonbr DESIGNED - JAL REVISED SECTION COUNTY BREAK AWAY GROUND MOUNT SIGNAGE LAYOUT STATE OF ILLINOIS ow:\\IL084EBIDINTEG.:ll:no:s.gov:PWIDOT\D uments\IDOT Offices\District 5\Projects\D54633RXWM**Data\Besign\D546339-sht-details.c REVISED LYNCH ROAD CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** *D-5 OVD SIN STR REPL 2015-12 CONTRACT NO. 46271 PLOT DATE = 11/20/2014 DATE - 04/26/11 REVISED SCALE: SHEET NO. 1 OF 3 SHEETS STA. TO STA. ILLINOIS FED. AID PROJECT

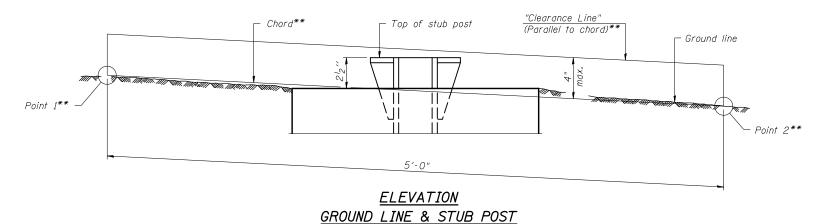


COUNTY TOTAL SHEET NO. USER NAME = piersonbr DESIGNED - JAL REVISED BREAK-AWAY WIDE FLANGE STATE OF ILLINOIS w:\\ILØ84EBIDINTEG.:ll:nois.gov:PWIDOT\C uments\IDOT_Offices\District_5\Projects\D546**3BRXXWN**Data\Besign\D546339-sht-details REVISED VAR. 22 19 STEEL SIGN POST DETAILS CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** *D-5 OVD SIN STR REPL 2015-12 CONTRACT NO. 46271 SCALE: SHEET NO. 2 OF 3 SHEETS STA. TO STA. PLOT DATE = 11/20/2014 DATE 04/26/11 REVISED ILLINOIS FED. AID PROJECT

		CONCRETE FOUNDATION TABLE								POST TO STUB POST CONNECTION DATA										FUSE PLATE DATA			
POST		Foundation		Re	einforceme	nt		Stub Post															
1 , 03,	Diameter	* Minimum	Concrete (1)		Bar S		1bs. (2)	Length	Bolt Size	A	В	С	D	Ε	†1	†2	R	W W	J	K	L	†3	
		Depth	cu. yds.)	Length	Diameter	Length	1001	20119111															
W6x9	2'-0"	6′-0"	0.70	5′-9"	1'-8 ¹ 2"	79′-0"	78	2'-3"	⁵ 8" x 3 ¹ 4"	6"	24"	14"	3½"	14"	3 ₄ "	2"	″32 ″	4"	4"	24"	78"	¹ / ₄ "	
W6x15	2'-0"	6′-0"	0.70	5′-9"	1'-8 ¹ 2"	79′-0"	78	2'-6"	⁵ 8" x 3 ¹ 4"	6"	24"	14"	3½"	14"	3 ₄ "	2"	"32 "	4"	6"	31/2"	14"	38"	
W8x18	2'-0"	6′-0"	0.70	5′-9"	1'-8 ¹ 2"	79′-0"	78	2'-6"	3 ₄ " x 3 ³ 4"	6"	21/2"	1 ³ 8"	314"	1 ³ 8"	1"	12"	1332 "	⁵ 16 "	54"	234"	14"	38"	
W10x22	2′-6"	6′-6"	1.18	6′-3"	2'-212"	105′-0"	92	3′-0"	3 ₄ " x 3 ³ 4"	6"	212"	138"	314"	138"	1"	12"	1332 "	⁵ 16 "	53 ₄ "	234"	1/2"	2"	
W10x26	2′-6"	7′-0"	1.27	6′-9"	2'-212"	112'-0"	98	3′-0"	⁷ 8" x 4"	7"	234"	1/2"	4"	1/2"	1"	3 ₄ "	1532 "	38"	53 ₄ "	234"	1/2"	58"	
W12x26	2′-6"	7′-9"	1.41	7′-6"	2'-212"	119′-0"	107	3′-0"	⁷ 8" x 4"	7"	234"	1/2"	4"	1/2"	1"	3 ₄ "	1532 "	38"	6½"	31/2"	1/2"	58"	
W14x30	3′-0"	7′-3"	1.90	7′-0"	2'-812"	145′-0"	113	3'-0"	⁷ 8" x 4"	7"	234"	1/2"	4"	1/2"	1"	34"	1532 "	38"	6 ³ 4"	31/2"	1 ⁵ 8"	12"	
W14x38	3′-0"	8'-0"	2.09	7′-9"	2'-8'2"	153′-0"	122	3′-6"	1" x 4 ¹ ₂ "	71/2"	3"	134"	4"	134"	14"	3 ₄ "	17,32 "	38"	6 ³ 4"	312"	1 ⁵ 8"	12"	
W16x45	3′-0"	8′-6"	2.23	8′-3"	2'-812"	162'-0"	130	3'-6"	1" x 4½"	71/2"	3"	134"	4"	134"	14"	34"	1732 "	38"	7"	31/2"	134"	12"	

^{*}Dimensional changes required for varying site conditions shall be approved by the Engineer.

										FUS		BOLT SIZ	E								
POST											Sign	Height									
7 037	4'-0"	5′-0"	6′-0"	7′-0"	8′-0"	9′-0"	10′-0"	11'-0"	12′-0"	13′-0"	14′-0"	15′-0"	16′-0"	17'-0''	18′-0′′	19′-0′′	20′-0′′	21'-0''	22'-0''	23′-0′′	24'-0''
W6x9	l ₂ " x 1l ₂ "	½" x 1½"	'2" x 1'2"	^l 2" x 1 ^l 2"																	
W6x15	1 ₂ " x 1 ³ 4"	¹ 2" x 1 ³ 4"	'2" x 1 ³ 4"	⁵ 8" x 2"	⁵ 8" x 2"	3 ₄ " x 2"	³ 4" x 2"	3 ₄ " x 2"	3 ₄ " x 2"												
W8x18	12" x 134"	½" x 1 ³ 4"	'2" x 1 ³ 4"	½" x 1 ³ 4"	⁵ 8" x 2"	⁵ 8" x 2"	³ 4" x 2"	³ 4" x 2"	3 ₄ " x 2"	3 ₄ " x 2"									_		
W10x22	½" x 2"	¹ 2" x 2"	¹ 2" x 2"	½" x 2"	¹ 2" x 2"	⁵ 8" x 2"	⁵ 8" x 2"	3 _{4"} x 21 _{4"}	3 _{4"} x 2 ¹ 4"	3 ₄ " x 2 ¹ 4"	3 _{4"} x 21 _{4"}	³ 4" x 2 ¹ 4"	3 _{4"} x 21 _{4"}								
W10x26	½" x 2"	¹ 2" x 2"	¹ 2" x 2"	¹ 2" x 2"	¹ 2" x 2"	⁵ 8" x 2 ¹ 4"	⁵ 8" x 2 ¹ 4"	3 _{4"} x 21 _{2"}	3 _{4"} x 2 ¹ 2"	3 ₄ " x 2 ¹ 2"											
W12x26	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⁵ 8" x 2 ¹ 4"	⁵ 8" x 2 ¹ 4"	3 ₄ " x 21 ₂ "	3 _{4"} x 2 ¹ 2"	3 ₄ " x 2 ¹ 2"	3 _{4"} x 21 _{2"}	3 ₄ " x 2 ¹ 2"	3 ₄ " x 21 ₂ "	3 ₄ " x 2 ¹ 2"	3 _{4"} x 21 _{2"}						
W14x30	½" x 2"	¹ 2" x 2"	½" x 2"	½" x 2"	¹ 2" x 2"	⁵ 8" x 2"	⁵ 8" x 2"	3 _{4"} x 21 _{4"}	3 _{4"} x 21 _{4"}	3 _{4"} x 21 _{4"}	3 ₄ " x 2 ¹ 4"	3 _{4"} x 21 _{4"}	3 _{4"} x 2 ¹ 4"	3 ₄ " x 2 ¹ ₄ "	3 ₄ " x 2 ¹ 4"	3 ₄ " x 2 ¹ 4"	3 ₄ " x 2 ¹ ₄ "				
W14x38	½" x 2"	¹ 2" x 2"	¹ 2" x 2"	¹ 2" x 2"	¹ 2" x 2"	⁵ 8" x 2 ¹ 4"	⁵ 8" x 2 ¹ 4"	³ 4" x 2 ¹ 2"	3 _{4"} x 2 ¹ 2"	3 ₄ " x 2 ¹ 2"	3 ₄ " x 2 ¹ 2"	⁷ 8" x 2 ¹ 2"	⁷ 8" x 2 ¹ 2"	1" x 2 ³ 4"	1" x 2 ³ 4"	1" x 2 ³ 4"	1" x 2 ³ 4"	1" x 2 ³ 4"	1" x 2 ³ 4"	1" x 2 ³ 4"	1" x 2 ³ 4"
W16x45		¹ 2" x 2"	½" x 2"	½" x 2"	¹ 2" x 2"	½" x 2"	½" x 2"	⁵ 8" x 2 ¹ 4"	⁵ 8" x 2 ¹ 4"	⁵ 8" x 2 ¹ 4"	3 ₄ " x 2½"	3 ₄ " x 2 ¹ 2"	⁷ 8" x 2½"	⁷ 8" x 2½"	⁷ 8" x 2½"	1" x 2 ³ 4"	1" x 2 ³ 4"	1" x 2 ³ 4"	1" x 23 ₄ "	1" x 2 ³ 4"	1" x 2 ³ 4"



** For all "Point 1" and "Point 2" locations, "Clearance Line" must be at or above top of stub post.

- Quantity includes all concrete necessary for one foundation.
- ② Includes reinforcement bars and spiral hooping for one foundation.

Note: All necessary excavation or drilling, backfilling, disposal of material, formwork, and furnishing and placing all materials including Class DS Concrete and reinforcing steel shall be included in the pay item for "Concrete Foundations".

BAW-A-2

6 - 1 - 12

PLOT DATE = 11/20/2014

CHECKED

- 04/26/11

DATE

FILE NAME : USER NAME : piersonbr DESIGNED - JAL REVISED pwi\\L084EBIDINTEG.illinois.gov;PWIDOT\Documents\IDDT Offices\District 5\Projects\D54\$;DRXWNDoto\Besign\D546339-sht-details.dgrREVISED STATE OF ILLINOIS

REVISED

REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

(Sheet 2 of	2)	
BREAK-AWAY WID	E FLANGE	
STEEL SIGN POST	TABLES	
SHEET NO. 3 OF 3 SHEETS	STA.	TO STA.

SCALE:

 F.A. RTE.
 SECTION
 COUNTY SHEETS NO.
 SHEET SHEETS NO.

 VAR.
 •
 •
 •
 22
 20

 •D-5 OVD SIN STR REPL 2015-12
 CONTRACT NO. 46271

 ILLINOIS FED. AID PROJECT

Illinois Department

SOIL DODING LOC

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

ot Iransport	ation		2011 ROKING	, LUG		
Division of Highways State of Illinois					Date	6/18/14
ROUTE <u>IL 9 (Empire Street)</u>	DESCRIPTION		Arm 250 Feet West of Vete Bound IL 9		OGGED BY	CNA
SECTION Sign Truss Replacer	ment LOCA	TION <u>S</u> \	N, SEC. 35, TWP. 23N, RNG	. 2E, 3rd PM, GPS:	<u>40.488061N,-</u>	-88.953766W
COUNTY <u>McLean</u> DRII	LLING METHOD		Hollow Stem	_ HAMMER TYPE	Auto	matic
STRUCT. NO. 5 C 057 S009 Station 161+10	D S E P T	U M C C	Stream Bed Elev	ft ft	D S E P T	U M C O S I
BORING NO. 3 Mast Arm Station 161+14	T N	Qu S	First Encounter	ft	T H N	Qu T
Offset 10.00ft N of Exist. Ground Surface Elev. 100.0	$-$ ft $\left _{\text{(ft)}}\right _{\text{(/12")}}$) (tsf) (%	Upon Completion	<u>Dry</u> ft ft	(ft) (/12")	(tsf) (%)
Black Top Soil SILTY CLAY			Brown CLAY LOAM TILL			
Brown SILTY CLAY LOAM	99.00		(continued)			
	- 2				_ 5	
D. CLAY LOAN TIL	95.00 -5 3	1	foundation @ 101.2')		7 9	3.3 15 B
Brown CLAY LOAM TILL	_		End of Boring		-	
	3 5	1.7 18	0			
		B 1.7				
	_				\exists	
	3 5	3.9 10	<u> </u>			
	3 8	B B	0		-30	
	80.00					
Brown CLAY LOAM TILL	89.00					
	$ \frac{4}{7}$	3.5 1	4			
4	- 3				_	
6	4	2.9 1	5			
2	6	В			35	
	6	3.7 1	4		-	
MAKA 	7	В				
MAD I						
	3 5	1.0 14	4-			
	4	B B				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) 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 State of Illinois

SOIL BORING LOG

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

Date <u>6/18/14</u>

ROUTE IL 9 (Empire Street) DESCRIPTION Bound IL 9 LOGGED BY CNA
STRUCT. NO. 1019.30 Color Station 166+50 Station 166+50 Station 166+50 Stream Bed Elev.
STRUCT. NO. L019.30
Ground Surface Elev. 95.9 ft (ft) (/12") (tsf) (%) After Hrs. ft (ft) (/12") (tsf) (Black Top Soil LOAM 94.90 Brown CLAY LOAM TILL
Brown CLAY LOAM TILL - 1 - 1 0.4 24 go.90 -5 2 B Gray CLAY LOAM TILL - 4 - 5 3.2 18 - 7 B - 7
1 0.4 24 (Benchmark used: Top of existing foundation ® 100.1') 7 2.9 1 1 1 1 1 1 1 1 1
1 0.4 24 (Benchmark used: Top of existing foundation ® 100.1') 70.90 -25 8 B
Second
- 4
7 B
84.90
Gray CLAY LOAM TILL 7 4.0 13 9 B
2
-
100 100

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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 = piersonbr	DESIGNED -	REVISED -	<u> </u>								F.A.	SECTION	COUNTY	TOTAL	SHEET
pw:\\ILØ84EBIDINTEG.:ll:no:s.gov:PWIDOT\Do	cuments\IDOT Offices\District 5\Projects\D54	3 3RXXWN Data\8esign\D546339-sht-blog.dgn	REVISED -	STATE OF ILLINOIS			SO	OIL BO	ORING	LOGS		VAR.	•	••	22	21
	PLOT SCALE = 46.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION								•D-5 OVD :	SIN STR REPL 2015	12 CONTRAC		46339
Default	PLOT DATE = 11/20/2014	DATE -	REVISED -		SCALE:	SHEET 1	OF	F 2	SHEET	S STA.	TO STA.		ILLINOIS FE	. AID PROJECT		

Illinois Department of Transportation

SOIL BORING LOG

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

2.0

В

2.5

В

1.0

В

8

4

5

69.80

15

15

13

6/18/14

Division of Highways State of Illinois

Mast Arm 0.34 Mlles East of Veterans on West

IL 9 (Empire Street) DESCRIPTION Bound IL 9 CNA SE, SEC. 35, TWP. 23N, RNG. 2E, 3rd PM, GPS: 40.488398N, -88.946327W Sign Truss Replacement LOCATION

McLean DRILLING METHOD HAMMER TYPE COUNTY Hollow Stem 5 C 057 S009 D E P D E P S U S U STRUCT. NO. L019.60 Surface Water Elev. Ρ С 0 С 0 182+00 Station Stream Bed Elev. S S S BORING NO. 1 Mast Arm Groundwater Elev.: N Qu Qu 181+94 First Encounter 8.00ft S of Exist. Offset Upon Completion (%) (ft) (/12") (tsf) (tsf) Ground Surface Elev. 99.8 After Hrs. Gray CLAY LOAM TILL Asphalt Shoulder - PAVEMENT (continued) Green/Black Mottled SILTY CLAY LOAM

Brown SILTY CLAY LOAM

Brown CLAY LOAM TILL

Gray CLAY LOAM TILL

1.2 16 4 В

> (Benchmark used: Top of existing foundation @ 101.0') 15

End of Boring

13 3.9 16 14 В

0.4 16

В

1.4

В

3

4

4

5 3.3 15 6 S

6 В

2.1

1.8 15

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) 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 = DESIGNED -REVISED USER NAME = piersonbr ow:\\IL084EBIDINTEG.:ll:nois.gov:PWIDOT\[ments\IDOT Offices\District 5\Projects\D5 63**DRXXWX**Data\Besign\D546339-sht-blog.dgr REVISED CHECKED REVISED PLOT DATE = 11/20/2014 DATE REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

COUNTY SECTION **SOIL BORING LOGS** VAR. 22 22 D-5 OVD SIN STR REPL 2015-12 CONTRACT NO. 46339 SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

..MCLEAN & PIATT