

11-09-2018 LETTING ITEM 067

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A. REF.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D-1 OVH SIN STR REPL 18-35	COOK	79	1
ILLINOIS			CONTRACT NO. 46473	

\*79 + 3 = 82 TOTAL SHEETS

M-60-009-18

FOR INDEX OF SHEETS, SEE SHEET NO. 2

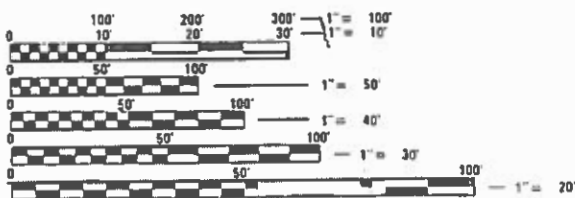
# PROPOSED HIGHWAY PLANS

VARIOUS ROUTES  
SECTION: D-1 OVH SIN STR REPL 18-35  
D1 OVERHEAD SIGN STRUCTURE REPLACEMENT  
COOK COUNTY

M-60-009-18



THE PROJECT IS LOCATED IN THE CITY OF CHICAGO, COUNTRY CLUB HILLS AND THE VILLAGE OF JUSTICE, FOREST PARK, SUMMIT, TINLEY PARK, SOUTH HOLLAND, DOLTON, SCHAUMBURG, CHICAGO RIDGE AND OAK LAWN IN THE COOK COUNTY.



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

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

FOR IDOT OWNED UNDERGROUND ASSET IDENTIFICATION CONTACT IDOT DISTRICT 1 ELECTRICAL MAINTENANCE CONTRACTOR

FOR LOCATION MAP  
SEE SHEETS NO. 3-5

VARIOUS TOWNSHIPS



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED Aug 16 2018  
Anthony S. Anthony REGIONAL ENGINEER

Oct 5 2018  
Paul P. Chaf ENGINEER OF DESIGN AND ENVIRONMENT

Oct 5 2018  
Paul P. Chaf DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

PROJECT ENGINEER: NEDAL QARUT (847) 705-4151 / HUSSAIN MESYEF (847) 705-4381  
PROJECT MANAGER: HUSSAIN MESYEF (847) 705-4381

CONTRACT NO. 46473

**INDEX OF SHEETS**

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79	ARTERIAL ROAD INFORMATION SIGN (TC-22)
17A	SUPPORT FRAME FOR ALUMINUM TRUSS
17B	SUPPORT FRAME DETAILS - ALUMINUM TRUSS
21A	DRILLED SHAFT DETAIL

**HIGHWAY STANDARDS**

STD. NO.	TITLE
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
630001-12	STEEL PLATE BEAM GUARDRAIL
630301-08	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
631031-15	TRAFFIC BARRIER TERMINAL, TYPE 6
635001-02	DELINEATORS
643001-02	SAND MODULE IMPACT ATTENUATORS
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5M) AWAY
701400-09	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-11	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45 MPH
701421-08	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS > 45 MPH TO 55 MPH
701428-01	TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY/EXPRESSWAY
701446-09	TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-07	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720021-02	SIGN PANELS, EXTRUDED ALUMINUM TYPE
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

**GENERAL NOTES**

THERE IS AN EXISTING CLOSED CIRCUIT SURVEILLANCE CAMERA AT LOCATION S. THE DEPARTMENTS ELECTRICAL MAINTENANCE CONTRACTOR WILL REMOVE THE EXISTING CAMERA PRIOR TO REMOVAL OF THE SIGN STRUCTURE, AND WILL REINSTALL THE CAMERA ON THE NEW STRUCTURE. THIS CONTRACTOR SHALL CALL THE DISTRICT ONE ELECTRICAL MAINTENANCE FIELD OFFICE AT (708)524-2145 A MINIMUM OF 7 CALENDAR DAYS BEFORE REMOVAL OF THE EXISTING STRUCTURE TO HAVE THE CAMERA AND ASSOCIATED HARDWARE REMOVED. THE CONTRACTOR SHALL CALL THE DISTRICT ONE ELECTRICAL MAINTENANCE FIELD OFFICE AGAIN ONCE THE NEW SIGN STRUCTURE IS INSTALLED AND COMPLETE.

LOCATIONS U, V, 3, AND 4 ARE LOCATED SUCH THAT SOIL EXCAVATED FOR THE MEDIAN FOUNDATIONS CANNOT BE DISPOSED OF ON SITE. AT THESE LOCATIONS, EXCAVATED SOIL SHALL BE DISPOSED ADJACENT TO THE RIGHT SIDE FOUNDATION. THE COST OF MOVING THE EXCAVATED SOIL SHALL NOT BE PAID FOR SEPERATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

**GENERAL NOTES**

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

PLAN DIMENSIONS AND DETAILS WERE OBTAINED FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO ORDERING MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED AT THE UNIT PRICE BID FOR THE WORK.

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.

THE CONTRACTOR SHALL CONTACT THE EXPRESSWAY TRAFFIC CONTROL SUPERVISOR AT (847) 705-4155 AND THE ARTERIAL TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811. IN THE CITY OF CHICAGO, CONTACT "DIGGER" AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOUR NOTIFICATION REQUIRED.)

IF THIS CONTRACT REQUIRES THE SERVICES OF AN ELECTRICAL CONTRACTOR, THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS/HER OWN EXPENSE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES PRIOR TO PERFORMING ANY WORK. IF THIS CONTRACT DOES NOT REQUIRE THE SERVICES OF AN ELECTRICAL CONTRACTOR, THE CONTRACTOR MAY REQUEST ONE FREE LOCATE FOR EXISTING IDOT ELECTRICAL FACILITIES FROM THE DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR PRIOR TO THE START OF ANY WORK. ADDITIONAL REQUESTS MAY BE AT THE EXPENSE OF THE CONTRACTOR. THE LOCATION OF UNDERGROUND TRAFFIC FACILITIES DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO REPAIR ANY FACILITIES DAMAGED DURING CONSTRUCTION AT THEIR EXPENSE.

THE CONTRACTOR SHALL CHECK THE PROPOSED OVERHEAD SIGN STRUCTURE LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIAL.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.

THE CONTRACTOR SHALL VERIFY LOCATIONS WITH THE ENGINEER PRIOR TO BEGINNING WORK.

THE CONTRACTOR SHALL CONTACT THE DEPARTMENTS ELECTRICAL MAINTENANCE CONTRACTOR TO ARRANGE THE ELECTRICAL DISCONNECT FOR EACH LOCATION.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.

FOR OVERHEAD SIGN STRUCTURES, THE END SUPPORTS ARE INCLUDED IN THE COST OF THE OVERHEAD SPAN OR CANTILEVER STRUCTURE UNLESS OTHERWISE SPECIFIED

RESTORATION OF THE OVERHEAD SIGN TRUSS WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEMS AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

SOME LOCATIONS MAY REQUIRE THE CONTRACTOR TO REMOVE, STORE, AND REINSTALL SIGN PANELS. STORAGE OF EXISTING SIGN PANELS SHALL NOT BE PAID FOR SEPARATELY, BUT COSTS SHALL BE INCLUDED IN THE REMOVE AND REINSTALL PAY ITEM.

THIS PROJECT HAS RECEIVED AN IN-HOUSE ENVIRONMENTAL SIGN-OFF. UNLESS OTHERWISE NOTED IN THE PLANS, ANY SOIL EXCAVATED SHALL REMAIN ON SITE. THE CONTRACTOR SHALL SPREAD THE SOIL AT THE SAME LOCATION IT WAS EXCAVATED. THE GRADING SHALL BE DONE SO THAT THE EXISTING DITCH PROFILES AND WATER FLOW PATTERNS ARE MAINTAINED. THIS WORK SHALL BE INCLUDED IN THE RELATED PAY ITEMS, AND NO EXTRA COMPENSATION SHALL BE ALLOWED. THE FINAL GROUND SURFACE SHALL BE COVERED WITH TOPSOIL, SEED, AND EROSION CONTROL BLANKET FOR WHICH NOMINAL QUANTITIES HAVE BEEN PROVIDED.

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

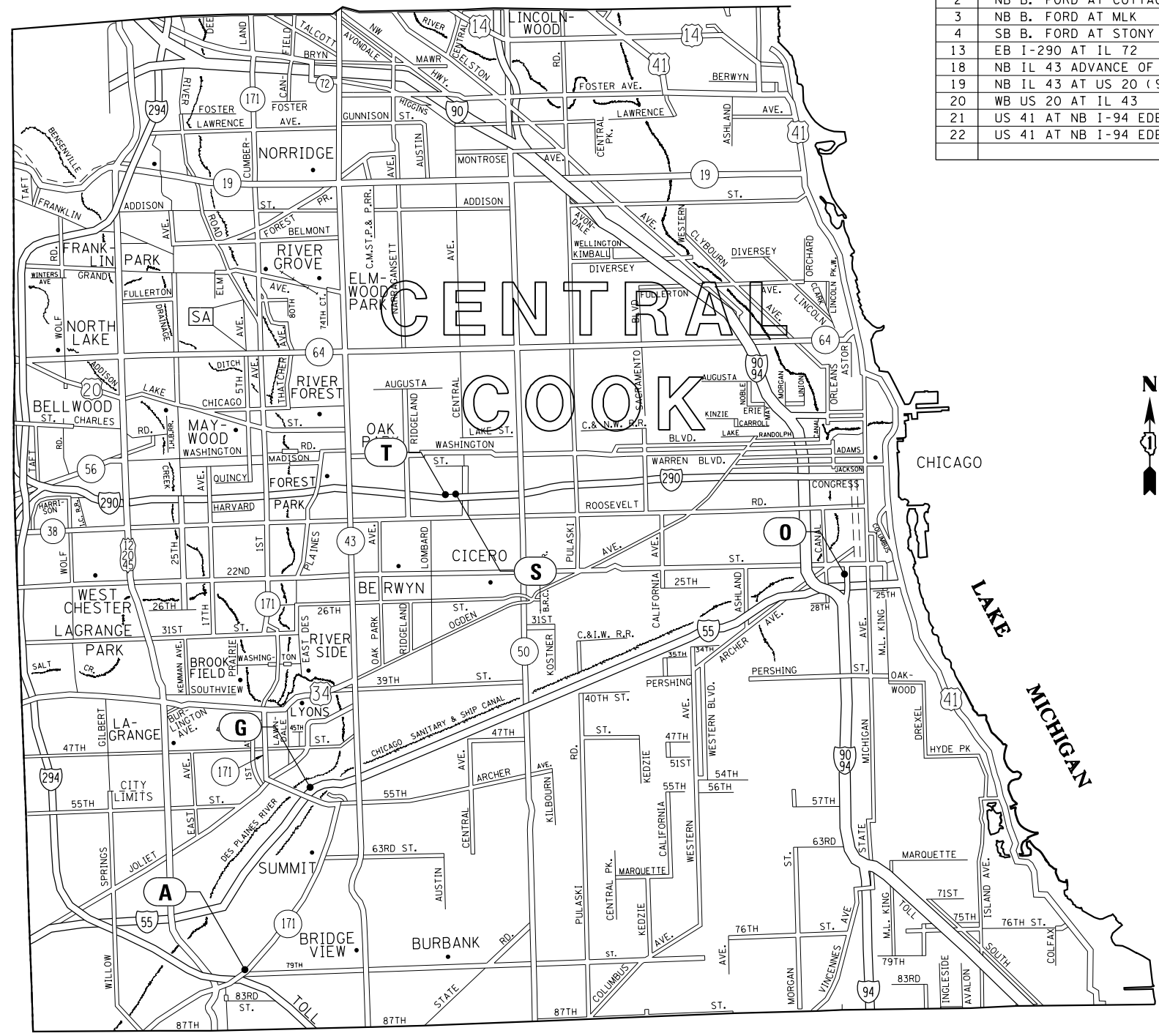
**INDEX OF SHEETS, HIGHWAY STANDARDS & GENERAL NOTES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35		COOK	79	2
			CONTRACT NO. 46473	
ILLINOIS FED. AID PROJECT				



LOC. NO.	LOCATION NAME	STRUCTURE NO.	CLASIFICATION	ADT (YEAR)	POSTED SPEED	MUNICIPALITY	COUNTY
A	WB IL 171 AT I-294	1S016S171L000.0-000	ARTERIAL	14,100 (2014)	45	JUSTICE	COOK
G	SB I-55 AT IL 171	1S016I055L282.6-000	EXPRESSWAY	6,400 (2016)	45	SUMMIT	COOK
J	EB I-80 AT 183RD ST	1S016I080R150.5-000	EXPRESSWAY	140,800 (2016)	60	TINLEY PARK	COOK
K	WB I-80 AT HARLEM	1S016I080L149.2-000	EXPRESSWAY	126,400 (2016)	60	TINLEY PARK	COOK
L	WB I-80 AT I-57	1S016I080L152.1-000	EXPRESSWAY	83,400 (2016)	55	COUNTRY CLUB HILLS	COOK
O	SB CHINATOWN FEEDER AT I-55	1C016I094R000.0-000	ARTERIAL	33,400 (2014)	40	CHICAGO	COOK
S	WB I-290 AT AUSTIN	1C016I290L023.5-000	EXPRESSWAY	191,400 (2016)	55	CHICAGO	COOK
T	WB I-290 AT AUSTIN	1C016I290L023.3-000	EXPRESSWAY	197,100 (2016)	55	CHICAGO	COOK
U	SB B. FORD AT US 6 WEST	1S016I094R072.7-000	EXPRESSWAY	117,800 (2016)	55	SOUTH HOLLAND	COOK
V	NB B. FORD AT MICHIGAN CITY RD	1S016I094L071.5-000	EXPRESSWAY	126,600 (2016)	55	DOLTON	COOK
2	NB B. FORD AT COTTAGE GROVE	1S016I094L064.3-000	EXPRESSWAY	142,700 (2016)	55	CHICAGO	COOK
3	NB B. FORD AT MLK	1S016I094L063.8-000	EXPRESSWAY	159,100 (2016)	55	CHICAGO	COOK
4	SB B. FORD AT STONY ISLAND	1S016I094R064.2-000	EXPRESSWAY	159,100 (2016)	55	CHICAGO	COOK
13	EB I-290 AT IL 72	1C016I290R001.0-000	EXPRESSWAY	147,800 (2016)	60	SCHAUMBURG	COOK
18	NB IL 43 ADVANCE OF US 20 (98TH ST)	1C016S043R000.0-001	ARTERIAL	39,700 (2015)	40	CHICAGO RIDGE	COOK
19	NB IL 43 AT US 20 (95TH ST)	1C016S043R000.0-002	ARTERIAL	2,500 (2012)	40	OAK LAWN	COOK
20	WB US 20 AT IL 43	1C016S043R000.0-000	ARTERIAL	29,700 (2015)	45	OAK LAWN	COOK
21	US 41 AT NB I-94 EDENS	1S016I094L031.6-000	EXPRESSWAY	148,600 (2017)	55	NORTHBROOK	COOK
22	US 41 AT NB I-94 EDENS	1S016I094L030.8-000	EXPRESSWAY	148,600 (2017)	55	NORTHBROOK	COOK



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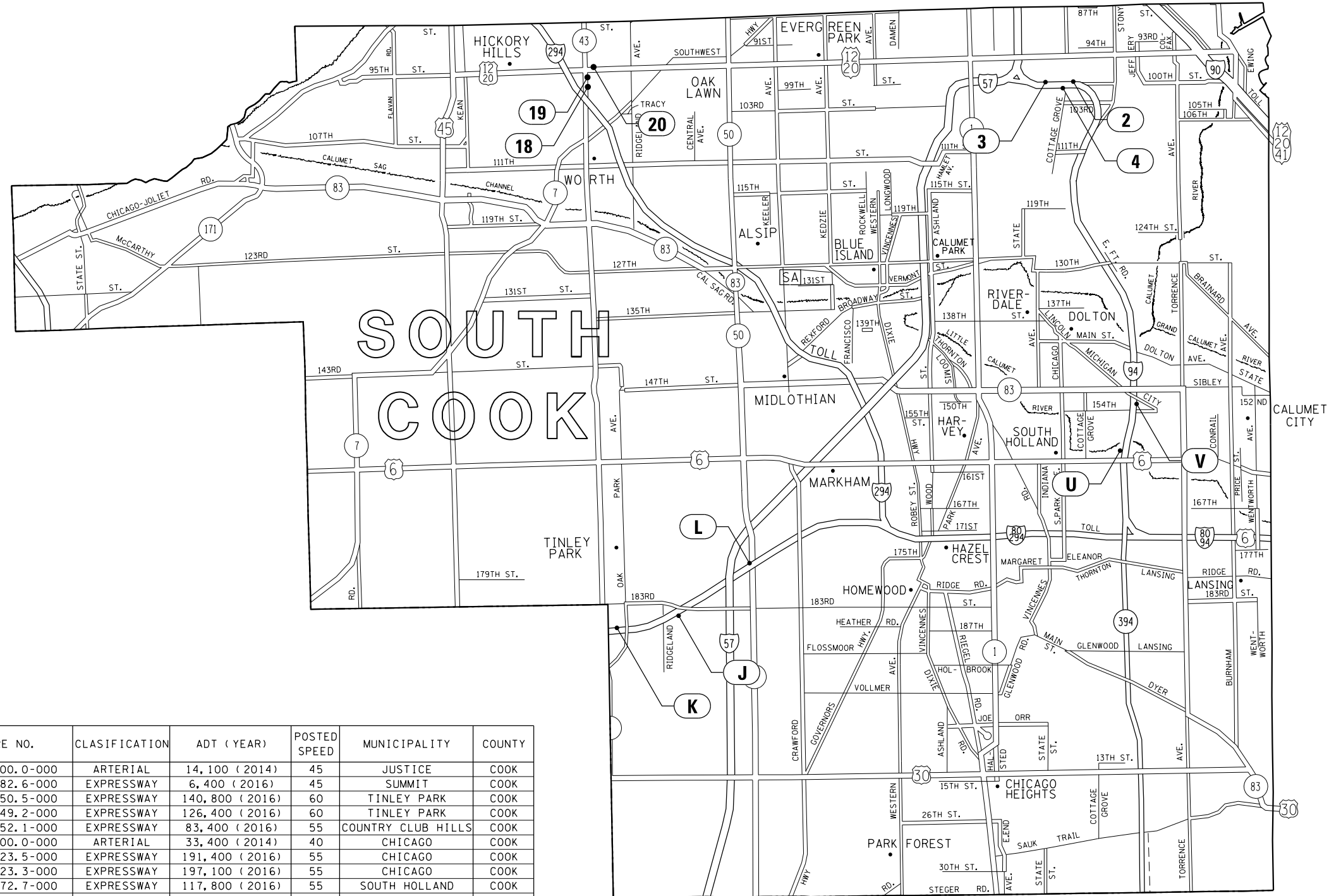
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LOCATION MAP (2 OF 3)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35		COOK	79	4
CONTRACT NO. 46473				
ILLINOIS FED. AID PROJECT				





LOC. NO.	LOCATION NAME	STRUCTURE NO.	CLASSIFICATION	ADT (YEAR)	POSTED SPEED	MUNICIPALITY	COUNTY
A	WB IL 171 AT I-294	1S016S171L000.0-000	ARTERIAL	14,100 (2014)	45	JUSTICE	COOK
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**STATE OF ILLINOIS  
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**LOCATION MAP (3 OF 3)**

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D-1 OVD SIN STR REPL 18-35		COOK	79	5
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				100% STATE																			
				0021																			
URBAN																							
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	190	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
25000210	SEEDING, CLASS 2A	ACRE	0.038	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	2.28	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	2.28	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	
25100630	EROSION CONTROL BLANKET	SQ YD	190	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
44001980	CONCRETE BARRIER REMOVAL	FOOT	80																		40	40	
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	120															60		60			
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2															1		1			
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2															1		1			
63301215	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE B	FOOT	240									120	120										
63700805	CONCRETE BARRIER TRANSITION	FOOT	60																		30	30	
64300450	IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1		1																		
64301090	ATTENUATOR BASE	SQ YD	27		27																		
67100100	MOBILIZATION	L SUM	1	1																			

\* SPECIALTY ITEMS

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PLOT DATE = 8/16/2018		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SUMMARY OF QUANTITIES (SHEET 1 OF 3)</b>			
SCALE:	SHEET	OF	SHEETS
	STA.		TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35	COOK		79	6
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ILLINOIS FED. AID PROJECT				

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE																					
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				100% STATE																					
				0021																					
URBAN																									
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1	0.25																					
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1															0.33	0.33	0.34					
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1															0.33	0.33	0.34					
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1																0.5	0.5					
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	1																					
70400100	TEMPORARY CONCRETE BARRIER	FOOT	400																		200	200			
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4																		2	2			
* 72000200	SIGN PANEL - TYPE 2	SQ FT	40		20						20														
* 72000300	SIGN PANEL - TYPE 3	SQ FT	5193.1	710.5	327.5		84		112.5	165	165	461.8	538.3	396	396	431.5	175	145	145	145	348	447			
* 72400330	REMOVE SIGN PANEL - TYPE 3	SQ FT	142.5				142.5																		
* 72400600	RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	1															1							
* 72400720	RELOCATE SIGN PANEL - TYPE 2	SQ FT	24										12								12				
* 72400730	RELOCATE SIGN PANEL - TYPE 3	SQ FT	1175.6				460.3	379	336.3																
73300100	OVERHEAD SIGN STRUCTURE - SPAN, TYPE I-A (4'-0" X 4'-6")	FOOT	346				68							69	69	75					65				

\* SPECIALTY ITEMS

USER NAME = poclechal	DESIGNED - BR / HM	REVISED -
DRAWN - LP	CHECKED - BS	REVISED -
PLOT SCALE = 100.0000' / in.	DATE - 11/03/2017	REVISED -
PLOT DATE = 8/16/2018		

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
 (SHEET 2 OF 3)**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35		COOK	79	7
CONTRACT NO. 46473				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.

MODEL: C:\p1\1108\EBID\NTEG\_111015.spc\PWIDOT\Documents\DOT\_Offices\District\_1\Projects\M600918\CADD\Traffic\M600918-ht-egence.dgn  
 FILE NAME: P:\1108\EBID\NTEG\_111015.spc\PWIDOT\Documents\DOT\_Offices\District\_1\Projects\M600918\CADD\Traffic\M600918-ht-egence.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE																					
				A	G	J	K	L	O	S	T	U	V	2	3	4	13	18	19	20	21	22			
				100% STATE																					
0021																									
URBAN																									
73300300	OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-A (5' -0" X 7' -0")	FOOT	573	80	90		86	84				87	68									78			
73302210	OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE III-C-A (36" X 7' -0")	FOOT	276						36	40	40						40	40	40	40					
* 73400200	DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	436.3	30.6	30.6	24.2	30.6	30.6	12.7	12.7	12.7	50.7	27.7	25.6	21.0	21.0	12.7	12.7	12.7	12.7	24.4	30.46			
73600100	REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	12	1	1	1	1	1				1	1	1	1	1					1	1			
73600200	REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	7						1	1	1						1	1	1	1					
73700300	REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	35	2	2	2	2	2	1	1	1	2	2	4	4	4	1	1	1	1	1	1			
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	32																		16	16			
84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	1				1																		
89502400	REMOVE EXISTING FLASHING BEACON INSTALLATION COMPLETE	EACH	1				1																		
X0100003	CLEARING AND GRUBBING	SQ YD	50	10				10								10			10	10					
* X0325265	REMOVE ELECTRIC SERVICE	EACH	19	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
X6430120	REMOVE IMPACT ATTENUATORS, NO SALVAGE	EACH	1		1																				
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1		0.066	0.066	0.066	0.066	0.066	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067				0.067	0.067			

\* SPECIALTY ITEMS

USER NAME = pociechal	DESIGNED - BR / HM	REVISED - LP 04/09/18
DRAWN - LP	CHECKED - BS	REVISED -
PLOT SCALE = 100.0000' / in.	DATE - 11/03/2017	REVISED -
PLOT DATE = 8/16/2018		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SUMMARY OF QUANTITIES (SHEET 3 OF 3)</b>			
SCALE:	SHEET	OF	SHEETS
	STA.		TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35		COOK	79	8
			CONTRACT NO. 46473	
ILLINOIS FED. AID PROJECT				

LOCATION NO.	A	STATE I.D. NO.	1S016S171L000.0-000					
COUNTY	COOK	ROUTE	IL-171	M. P.	-	DIRECTION	WB	
PAY ITEM DESCRIPTION							UNIT	QTY
TOPSOIL FURNISH AND PLACE, 4"							SO YD	10
SEEDING, CLASS 2A							ACRE	0.002
NITROGEN FERTILIZER NUTRIENT							POUND	0.12
POTASSIUM FERTILIZER NUTRIENT							POUND	0.12
EROSION CONTROL BLANKET							SO YD	10
TRAFFIC CONTROL AND PROTECTION, STANDARD 701421							L SUM	0.25
SIGN PANEL - TYPE 3							SO FT	710.5
OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-A (5'-0" X 7'-0")							FOOT	80
DRILLED SHAFT CONCRETE FOUNDATIONS							CU YD	30.6
REMOVE OVERHEAD SIGN STRUCTURE - SPAN							EACH	1
REMOVE CONCRETE FOUNDATION - OVERHEAD							EACH	2
CLEARING AND GRUBBING							SO YD	10
REMOVE ELECTRIC SERVICE							EACH	1

LOCATION NO.	K	STATE I.D. NO.	1S016I080L149.2-000					
COUNTY	COOK	ROUTE	I-80	M. P.	149.2	DIRECTION	WB	
PAY ITEM DESCRIPTION							UNIT	QTY
TOPSOIL FURNISH AND PLACE, 4"							SO YD	10
SEEDING, CLASS 2A							ACRE	0.002
NITROGEN FERTILIZER NUTRIENT							POUND	0.12
POTASSIUM FERTILIZER NUTRIENT							POUND	0.12
EROSION CONTROL BLANKET							SO YD	10
SIGN PANEL - TYPE 3							SO FT	84
REMOVE SIGN PANEL - TYPE 3							SO FT	142.5
RELOCATE SIGN PANEL - TYPE 3							SO FT	379
OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-A (5'-0" X 7'-0")							FOOT	86
DRILLED SHAFT CONCRETE FOUNDATIONS							CU YD	30.6
REMOVE OVERHEAD SIGN STRUCTURE - SPAN							EACH	1
REMOVE CONCRETE FOUNDATION - OVERHEAD							EACH	2
REMOVAL OF LIGHTING CONTROLLER							EACH	1
REMOVE EXISTING FLASHING BEACON INSTALLATION COMPLETE							EACH	1
REMOVE ELECTRIC SERVICE							EACH	1
TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)							L SUM	0.066

LOCATION NO.	S	STATE I.D. NO.	1C0161290L023.5-000					
COUNTY	COOK	ROUTE	I-290	M. P.	23.5	DIRECTION	WB	
PAY ITEM DESCRIPTION							UNIT	QTY
TOPSOIL FURNISH AND PLACE, 4"							SO YD	10
SEEDING, CLASS 2A							ACRE	0.002
NITROGEN FERTILIZER NUTRIENT							POUND	0.12
POTASSIUM FERTILIZER NUTRIENT							POUND	0.12
EROSION CONTROL BLANKET							SO YD	10
SIGN PANEL - TYPE 3							SO FT	165
OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE III-C-A (36" X 7'-0")							FOOT	40
DRILLED SHAFT CONCRETE FOUNDATIONS							CU YD	12.7
REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER							EACH	1
REMOVE CONCRETE FOUNDATION - OVERHEAD							EACH	1
REMOVE ELECTRIC SERVICE							EACH	1
TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)							L SUM	0.067

LOCATION NO.	G	STATE I.D. NO.	1S016I055L282.6-000					
COUNTY	COOK	ROUTE	I-55	M. P.	282.6	DIRECTION	SB	
PAY ITEM DESCRIPTION							UNIT	QTY
TOPSOIL FURNISH AND PLACE, 4"							SO YD	10
SEEDING, CLASS 2A							ACRE	0.002
NITROGEN FERTILIZER NUTRIENT							POUND	0.12
POTASSIUM FERTILIZER NUTRIENT							POUND	0.12
EROSION CONTROL BLANKET							SO YD	10
IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3							EACH	1
ATTENUATOR BASE							SO YD	27
SIGN PANEL - TYPE 2							SO FT	20
SIGN PANEL - TYPE 3							SO FT	327.5
OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-A (5'-0" X 7'-0")							FOOT	90
DRILLED SHAFT CONCRETE FOUNDATIONS							CU YD	30.6
REMOVE OVERHEAD SIGN STRUCTURE - SPAN							EACH	1
REMOVE CONCRETE FOUNDATION - OVERHEAD							EACH	2
REMOVE ELECTRIC SERVICE							EACH	1
REMOVE IMPACT ATTENUATORS, NO SALVAGE							EACH	1
TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)							L SUM	0.066

LOCATION NO.	L	STATE I.D. NO.	1S016I080L152.1-000					
COUNTY	COOK	ROUTE	I-80	M. P.	152.1	DIRECTION	WB	
PAY ITEM DESCRIPTION							UNIT	QTY
TOPSOIL FURNISH AND PLACE, 4"							SO YD	10
SEEDING, CLASS 2A							ACRE	0.002
NITROGEN FERTILIZER NUTRIENT							POUND	0.12
POTASSIUM FERTILIZER NUTRIENT							POUND	0.12
EROSION CONTROL BLANKET							SO YD	10
RELOCATE SIGN PANEL - TYPE 3							SO FT	336.3
OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-A (5'-0" X 7'-0")							FOOT	84
DRILLED SHAFT CONCRETE FOUNDATIONS							CU YD	30.6
REMOVE OVERHEAD SIGN STRUCTURE - SPAN							EACH	1
REMOVE CONCRETE FOUNDATION - OVERHEAD							EACH	2
CLEARING AND GRUBBING							SO YD	10
REMOVE ELECTRIC SERVICE							EACH	1
TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)							L SUM	0.066

LOCATION NO.	T	STATE I.D. NO.	1C0161290L023.3-000					
COUNTY	COOK	ROUTE	I-290	M. P.	23.3	DIRECTION	WB	
PAY ITEM DESCRIPTION							UNIT	QTY
TOPSOIL FURNISH AND PLACE, 4"							SO YD	10
SEEDING, CLASS 2A							ACRE	0.002
NITROGEN FERTILIZER NUTRIENT							POUND	0.12
POTASSIUM FERTILIZER NUTRIENT							POUND	0.12
EROSION CONTROL BLANKET							SO YD	10
SIGN PANEL - TYPE 2							SO FT	20
SIGN PANEL - TYPE 3							SO FT	165
OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE III-C-A (36" X 7'-0")							FOOT	40
DRILLED SHAFT CONCRETE FOUNDATIONS							CU YD	12.7
REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER							EACH	1
REMOVE CONCRETE FOUNDATION - OVERHEAD							EACH	1
REMOVE ELECTRIC SERVICE							EACH	1
TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)							L SUM	0.067

LOCATION NO.	J	STATE I.D. NO.	1S016I080R150.5-000					
COUNTY	COOK	ROUTE	I-80	M. P.	150.5	DIRECTION	EB	
PAY ITEM DESCRIPTION							UNIT	QTY
TOPSOIL FURNISH AND PLACE, 4"							SO YD	10
SEEDING, CLASS 2A							ACRE	0.002
NITROGEN FERTILIZER NUTRIENT							POUND	0.12
POTASSIUM FERTILIZER NUTRIENT							POUND	0.12
EROSION CONTROL BLANKET							SO YD	10
RELOCATE SIGN PANEL - TYPE 3							SO FT	460.3
OVERHEAD SIGN STRUCTURE - SPAN, TYPE I-A (4'-0" X 4'-6")							FOOT	68
DRILLED SHAFT CONCRETE FOUNDATIONS							CU YD	24.2
REMOVE OVERHEAD SIGN STRUCTURE - SPAN							EACH	1
REMOVE CONCRETE FOUNDATION - OVERHEAD							EACH	2
REMOVE ELECTRIC SERVICE							EACH	1
TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)							L SUM	0.066

LOCATION NO.	O	STATE I.D. NO.	1C016I094R000.0-000					
COUNTY	COOK	ROUTE	I-94	M. P.	-	DIRECTION	SB	
PAY ITEM DESCRIPTION							UNIT	QTY
TOPSOIL FURNISH AND PLACE, 4"							SO YD	10
SEEDING, CLASS 2A							ACRE	0.002
NITROGEN FERTILIZER NUTRIENT							POUND	0.12
POTASSIUM FERTILIZER NUTRIENT							POUND	0.12
EROSION CONTROL BLANKET							SO YD	10
SIGN PANEL - TYPE 3							SO FT	112.5
OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE III-C-A (36" X 7'-0")							FOOT	36
DRILLED SHAFT CONCRETE FOUNDATIONS							CU YD	12.7
REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER							EACH	1
REMOVE CONCRETE FOUNDATION - OVERHEAD							EACH	1
REMOVE ELECTRIC SERVICE							EACH	1
TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)							L SUM	0.066

LOCATION NO.	U	STATE I.D. NO.	1S016I094R072.7-000					
COUNTY	COOK	ROUTE	I-94	M. P.	72.7	DIRECTION	SB	
PAY ITEM DESCRIPTION							UNIT	QTY
TOPSOIL FURNISH AND PLACE, 4"							SO YD	10
SEEDING, CLASS 2A							ACRE	0.002
NITROGEN FERTILIZER NUTRIENT							POUND	0.12
POTASSIUM FERTILIZER NUTRIENT							POUND	0.12
EROSION CONTROL BLANKET							SO YD	10
REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE B							FOOT	120
SIGN PANEL - TYPE 3							SO FT	461.8
OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-A (5'-0" X 7'-0")							FOOT	87
DRILLED SHAFT CONCRETE FOUNDATIONS							CU YD	50.7
REMOVE OVERHEAD SIGN STRUCTURE - SPAN							EACH	1
REMOVE CONCRETE FOUNDATION - OVERHEAD							EACH	2
REMOVE ELECTRIC SERVICE							EACH	1
TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)							L SUM	0.067

MODEL: Default  
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USER NAME = pociechal	DESIGNED - BR / HM	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - LP	REVISED -
PLOT DATE = 8/16/2018	CHECKED - BS	REVISED -
	DATE - 11/03/2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES (SHEET 1 OF 3)				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D-1 OVD SIN STR REPL 18-35	COOK	79	9
CONTRACT NO. 46473				
ILLINOIS FED. AID PROJECT				

LOCATION NO.	V	STATE I.D. NO.	1S0161094L071.5-000				
COUNTY	COOK	ROUTE	I-94	M.P.	71.5	DIRECTION	NB
PAY ITEM DESCRIPTION	UNIT	QTY					
TOPSOIL FURNISH AND PLACE, 4"	SO YD	10					
SEEDING, CLASS 2A	ACRE	0.002					
NITROGEN FERTILIZER NUTRIENT	POUND	0.12					
POTASSIUM FERTILIZER NUTRIENT	POUND	0.12					
EROSION CONTROL BLANKET	SO YD	10					
REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE B	FOOT	120					
SIGN PANEL - TYPE 3	SO FT	538.3					
RELOCATE SIGN PANEL - TYPE 2	SO FT	12					
OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-A (5'-0" X 7'-0")	FOOT	68					
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	27.7					
REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	1					
REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	2					
REMOVE ELECTRIC SERVICE	EACH	1					
TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	0.067					

LOCATION NO.	4	STATE I.D. NO.	1S0161094R064.2-000				
COUNTY	COOK	ROUTE	I-94	M.P.	64.2	DIRECTION	SB
PAY ITEM DESCRIPTION	UNIT	QTY					
TOPSOIL FURNISH AND PLACE, 4"	SO YD	10					
SEEDING, CLASS 2A	ACRE	0.002					
NITROGEN FERTILIZER NUTRIENT	POUND	0.12					
POTASSIUM FERTILIZER NUTRIENT	POUND	0.12					
EROSION CONTROL BLANKET	SO YD	10					
SIGN PANEL - TYPE 3	SO FT	431.5					
RELOCATE SIGN PANEL - TYPE 2	SO FT	12					
OVERHEAD SIGN STRUCTURE - SPAN, TYPE I-A (4'-0" X 4'-6")	FOOT	75					
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	21.0					
REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	1					
REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	4					
CLEARING AND GRUBBING	SO YD	10					
REMOVE ELECTRIC SERVICE	EACH	1					
TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	0.067					

LOCATION NO.	19	STATE I.D. NO.	1C016S043R000.0-002				
COUNTY	COOK	ROUTE	IL-43	M.P.	-	DIRECTION	NB
PAY ITEM DESCRIPTION	UNIT	QTY					
TOPSOIL FURNISH AND PLACE, 4"	SO YD	10					
SEEDING, CLASS 2A	ACRE	0.002					
NITROGEN FERTILIZER NUTRIENT	POUND	0.12					
POTASSIUM FERTILIZER NUTRIENT	POUND	0.12					
EROSION CONTROL BLANKET	SO YD	10					
TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	0.25					
TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	0.33					
TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	0.33					
TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	0.5					
SIGN PANEL - TYPE 3	SO FT	145					
OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE III-C-A (36" X 7'-0")	FOOT	40					
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	12.7					
REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1					
REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	1					
CLEARING AND GRUBBING	SO YD	10					
REMOVE ELECTRIC SERVICE	EACH	1					

LOCATION NO.	2	STATE I.D. NO.	1S0161094L064.3-000				
COUNTY	COOK	ROUTE	I-94	M.P.	64.3	DIRECTION	NB
PAY ITEM DESCRIPTION	UNIT	QTY					
TOPSOIL FURNISH AND PLACE, 4"	SO YD	10					
SEEDING, CLASS 2A	ACRE	0.002					
NITROGEN FERTILIZER NUTRIENT	POUND	0.12					
POTASSIUM FERTILIZER NUTRIENT	POUND	0.12					
EROSION CONTROL BLANKET	SO YD	10					
SIGN PANEL - TYPE 3	SO FT	396					
OVERHEAD SIGN STRUCTURE - SPAN, TYPE I-A (4'-0" X 4'-6")	FOOT	69					
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	25.6					
REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	1					
REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	4					
REMOVE ELECTRIC SERVICE	EACH	1					
TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	0.067					

LOCATION NO.	13	STATE I.D. NO.	1C0161290R001.0-000				
COUNTY	COOK	ROUTE	I-290	M.P.	1	DIRECTION	EB
PAY ITEM DESCRIPTION	UNIT	QTY					
TOPSOIL FURNISH AND PLACE, 4"	SO YD	10					
SEEDING, CLASS 2A	ACRE	0.002					
NITROGEN FERTILIZER NUTRIENT	POUND	0.12					
POTASSIUM FERTILIZER NUTRIENT	POUND	0.12					
EROSION CONTROL BLANKET	SO YD	10					
SIGN PANEL - TYPE 3	SO FT	175					
OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE III-C-A (36" X 7'-0")	FOOT	40					
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	12.7					
REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1					
REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	1					
REMOVE ELECTRIC SERVICE	EACH	1					
TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	0.067					

LOCATION NO.	20	STATE I.D. NO.	1C016S043R000.0-000				
COUNTY	COOK	ROUTE	US-20	M.P.	-	DIRECTION	WB
PAY ITEM DESCRIPTION	UNIT	QTY					
TOPSOIL FURNISH AND PLACE, 4"	SO YD	10					
SEEDING, CLASS 2A	ACRE	0.002					
NITROGEN FERTILIZER NUTRIENT	POUND	0.12					
POTASSIUM FERTILIZER NUTRIENT	POUND	0.12					
EROSION CONTROL BLANKET	SO YD	10					
STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	60					
TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1					
TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1					
TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	0.25					
TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	0.34					
TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	0.34					
TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	0.5					
SIGN PANEL - TYPE 3	SO FT	145					
OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE III-C-A (36" X 7'-0")	FOOT	40					
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	12.7					
REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1					
REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	1					
CLEARING AND GRUBBING	SO YD	10					
REMOVE ELECTRIC SERVICE	EACH	1					

LOCATION NO.	3	STATE I.D. NO.	1S0161094L063.8-000				
COUNTY	COOK	ROUTE	I-94	M.P.	63.8	DIRECTION	NB
PAY ITEM DESCRIPTION	UNIT	QTY					
TOPSOIL FURNISH AND PLACE, 4"	SO YD	10					
SEEDING, CLASS 2A	ACRE	0.002					
NITROGEN FERTILIZER NUTRIENT	POUND	0.12					
POTASSIUM FERTILIZER NUTRIENT	POUND	0.12					
EROSION CONTROL BLANKET	SO YD	10					
SIGN PANEL - TYPE 3	SO FT	396					
OVERHEAD SIGN STRUCTURE - SPAN, TYPE I-A (4'-0" X 4'-6")	FOOT	69					
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	21.0					
REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	1					
REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	4					
REMOVE ELECTRIC SERVICE	EACH	1					
TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	0.067					

LOCATION NO.	18	STATE I.D. NO.	1C016S043R000.0-001				
COUNTY	COOK	ROUTE	IL-43	M.P.	-	DIRECTION	NB
PAY ITEM DESCRIPTION	UNIT	QTY					
TOPSOIL FURNISH AND PLACE, 4"	SO YD	10					
SEEDING, CLASS 2A	ACRE	0.002					
NITROGEN FERTILIZER NUTRIENT	POUND	0.12					
POTASSIUM FERTILIZER NUTRIENT	POUND	0.12					
EROSION CONTROL BLANKET	SO YD	10					
STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	60					
TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1					
TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1					
TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	0.25					
TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	0.33					
TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	0.33					
SIGN PANEL - TYPE 3	SO FT	145					
RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	1					
OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE III-C-A (36" X 7'-0")	FOOT	40					
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	12.7					
REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1					
REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	1					
REMOVE ELECTRIC SERVICE	EACH	1					

LOCATION NO.	21	STATE I.D. NO.	1S0161094L031.6-000				
COUNTY	COOK	ROUTE	I-94 EDENS	M.P.	31.6	DIRECTION	NB
PAY ITEM DESCRIPTION	UNIT	QTY					
TOPSOIL FURNISH AND PLACE, 4"	SO YD	10					
SEEDING, CLASS 2A	ACRE	0.002					
NITROGEN FERTILIZER NUTRIENT	POUND	0.12					
POTASSIUM FERTILIZER NUTRIENT	POUND	0.12					
EROSION CONTROL BLANKET	SO YD	10					
CONCRETE BARRIER REMOVAL	FOOT	40					
CONCRETE BARRIER TRANSITION	FOOT	30					
TEMPORARY CONCRETE BARRIER	FOOT	200					
IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2					
SIGN PANEL - TYPE 3	SO FT	348					
OVERHEAD SIGN STRUCTURE - SPAN, TYPE I-A (4'-0" X 4'-6")	FOOT	65					
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	24.4					
REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	1					
REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	1					
BARRIER WALL REFLECTORS, TYPE C	EACH	16					
REMOVE ELECTRIC SERVICE	EACH	1					
TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	0.067					

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PLOT SCALE = 100.0000' / in.	DRAWN - LP	REVISED -
PLOT DATE = 8/16/2018	CHECKED - HM	REVISED -
	DATE - 11/03/2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES  
(SHEET 2 OF 3)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35		COOK	79	10
		CONTRACT NO. 46473		
ILLINOIS FED. AID PROJECT				

LOCATION NO.	22	STATE I. D. NO.	1S0161094L030.8-000				
COUNTY	COOK	ROUTE	I-94 EDENS	M. P.	30.8	DIRECTION	NB
PAY ITEM DESCRIPTION		UNIT	QTY				
TOPSOIL FURNISH AND PLACE, 4"		SQ YD	10				
SEEDING, CLASS 2A		ACRE	0.002				
NITROGEN FERTILIZER NUTRIENT		POUND	0.12				
POTASSIUM FERTILIZER NUTRIENT		POUND	0.12				
EROSION CONTROL BLANKET		SQ YD	10				
CONCRETE BARRIER REMOVAL		FOOT	40				
CONCRETE BARRIER TRANSITION		FOOT	30				
TEMPORARY CONCRETE BARRIER		FOOT	200				
IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3		EACH	2				
SIGN PANEL - TYPE 3		SQ FT	447				
OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-A (5' -0" X 7' -0")		FOOT	78				
DRILLED SHAFT CONCRETE FOUNDATIONS		CU YD	30.4				
REMOVE OVERHEAD SIGN STRUCTURE - SPAN		EACH	1				
REMOVE CONCRETE FOUNDATION - OVERHEAD		EACH	1				
BARRIER WALL REFLECTORS, TYPE C		EACH	16				
REMOVE ELECTRIC SERVICE		EACH	1				
TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)		L SUM	0.067				

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USER NAME = pociechal	DESIGNED - BR / HM	REVISED -
	DRAWN - LP	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - HM	REVISED -
PLOT DATE = 8/16/2018	DATE - 11/03/2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES  
(SHEET 3 OF 3)**

SCALE: SHEET OF SHEETS STA. TO STA.

F A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D-1 OVD SIN STR REPL 18-35	COOK	79	11
			CONTRACT NO. 46473	
ILLINOIS FED. AID PROJECT				



### 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)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.

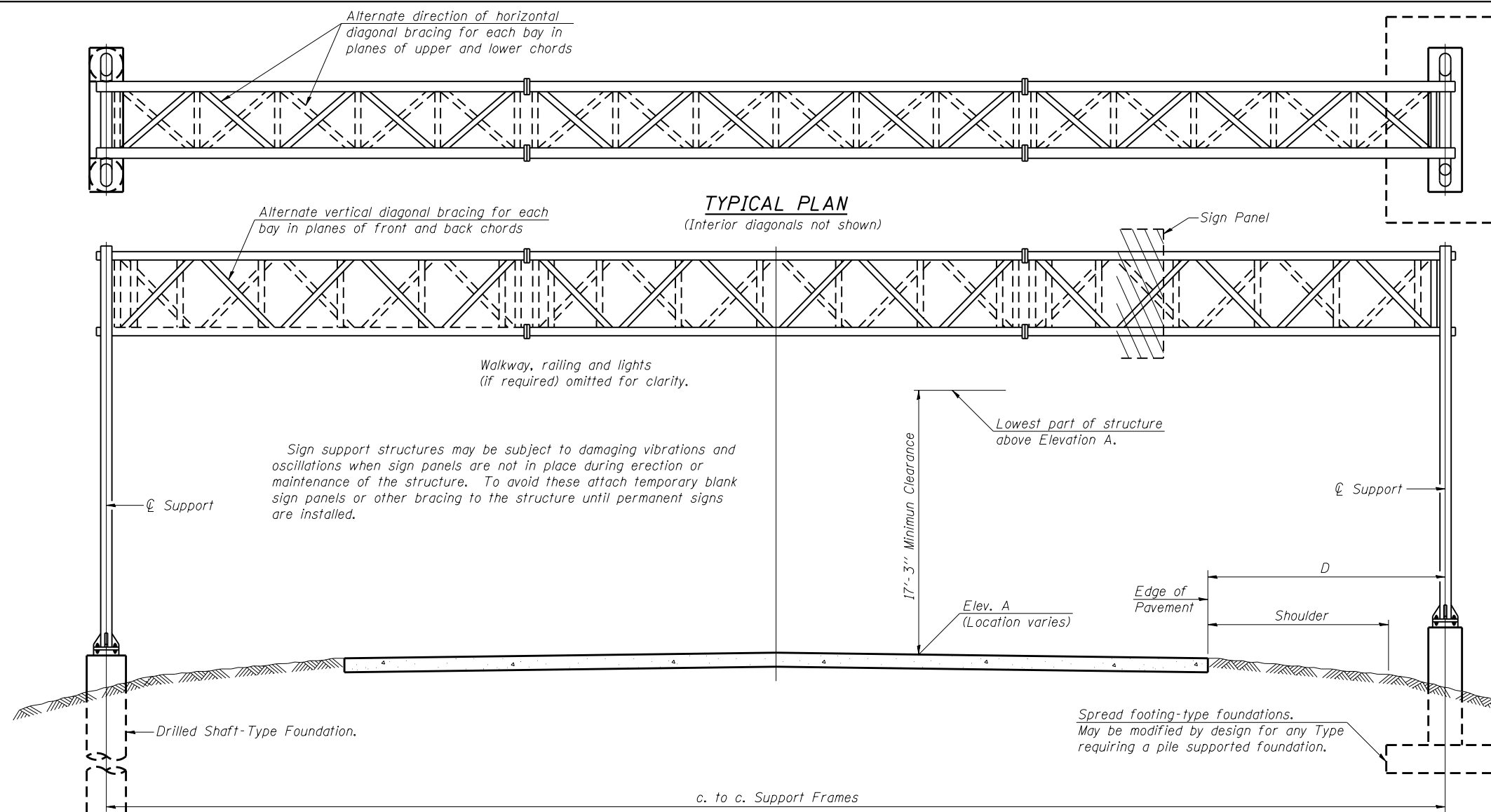
**CONCRETE SURFACES:** All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Concrete Sealer in accordance with the Standard Specifications.

**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	346
OVERHEAD SIGN STRUCTURE SPAN TYPE II-A	Foot	0
OVERHEAD SIGN STRUCTURE SPAN TYPE III-A	Foot	573
OVERHEAD SIGN STRUCTURE WALKWAY TYPE A	Foot	0
CONCRETE FOUNDATIONS	Cu. Yds.	0
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	0

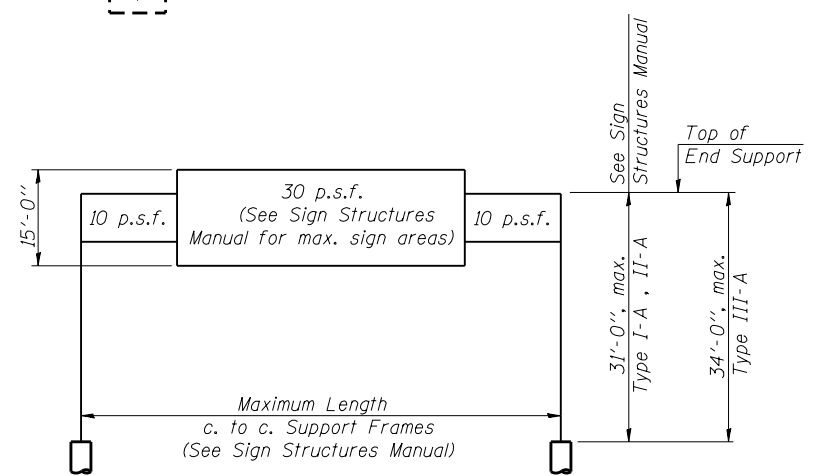


Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.

**TYPICAL ELEVATION**  
(Looking at Face of Signs)\*\*

Structure Number	Location	Design Truss Type	c. to c. Supports	Elev. A ***	Dim. D		Height of Tallest Sign	Total Sign Area
					Left	Right		
ISO16S171L000.0-000	A	III-A	80'-0"	629.35	11'-0"	9'-0"	13.0'	695.5
ISO16I055L282.6-000	G	III-A	90'-0"	616.10	18'-0"	33'-0"	12.5'	327.5
ISO16I080R150.5-000	J	I-A	68'-0"	698.01	15'-6"	15'-0"	14.0'	460.3
ISO16I080L149.2-000	K	III-A	86'-0"	700.28	14'-6"	15'-0"	12.5'	521.5
ISO16I080L152.1-000	L	III-A	84'-0"	687.90	14'-0"	16'-0"	14.5'	336.3
ISO16I094R072.7-000	U	III-A	87'-0"	598.81	16'-0"	16'-0"	12.0'	461.8
ISO16I094L071.5-000	V	III-A	68'-0"	597.12	4'-0"	3'-0"	14.5'	538.3
ISO16I094L064.3-000	2	I-A	69'-0"	576.89	13'-6"	13'-6"	13.5'	332.0
ISO16I094L063.8-000	3	I-A	69'-0"	585.59	11'-0"	35'-6"	15.0'	396.0
ISO16I094R064.2-000	4	I-A	75'-0"	570.63	12'-6"	22'-6"	11.5'	431.5
ISO16I094L030.8-000	22	III-A	78'-0"	632.73	1'-6"	21'-0"	12.0'	447.0
ISO16I094L031.6-000	21	I-A	65'-0"	631.70	5'-6"	10'-6"	12.0'	348.0

\*\*Looking upstation for structures with signs both sides.  
\*\*\*Used EOP plus 2/10"  
\* 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.



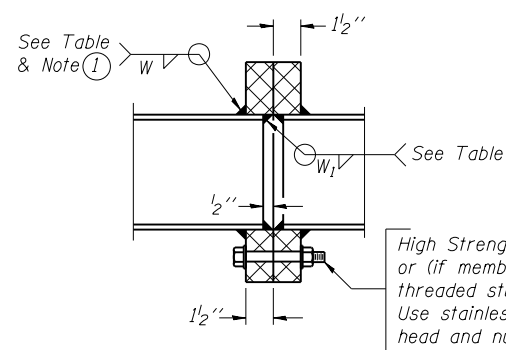
**DESIGN WIND LOADING DIAGRAM**

Parameters shown are basis for I.D.O.T. Standards and Sign Manual Tables. Installations not within dimensional limits shown require special analysis for all components.  
③ These dimensions were obtained from as built drawings and are for reference only. The Contractor shall verify all dimensions prior to ordering materials.

05-A-1 8-21-13

**TRUSS UNIT TABLE**

Structure Number	Location	Design Truss Type	Exterior Units (2)			Interior Unit			Upper & Lower Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals		Camber at Midspan	Splicing Flange					Notes		
			No. Panels per Unit	Unit Lgth.(L <sub>e</sub> )	Panel Lgth.(P)	No. Req'd.	No. Panels per Unit	Unit Lgth.(L <sub>i</sub> )	Panel Lgth.(P)	O.D.	Wall	O.D.		Wall	Bolts		Weld Sizes			A	B
															No./Splice	Dia.	W	W <sub>1</sub>			
ISO16S171L000.0-000	A	III-A	5	29'-2"	5'-5 1/2"	1	4	23'-1"	5'-5 1/2"	7	0'-0 5/16"	3 1/4"	0'-0 5/16"	1 1/2"	6	0'-1"	7/16"	5/16"	0'-11 1/2"	0'-15"	
ISO16I055L282.6-000	G	III-A	5	28'-11 1/2"	5'-5"	1	6	33'-9"	5'-5"	7	0'-0 5/16"	3 1/4"	0'-0 5/16"	1 3/4"	6	0'-1"	7/16"	5/16"	0'-11 1/2"	0'-15"	
ISO16I080R150.5-000	J	I-A	7	34'-10"	4'-8 1/2"	0	-	-	-	5	0'-0 5/16"	2 1/2"	0'-0 5/16"	1 5/8"	6	0'-0 7/8"	5/16"	1/4"	0'-8 3/4"	0'-11 3/4"	
ISO16I080L149.2-000	K	III-A	5	27'-8 1/2"	5'-2"	1	6	32'-3"	5'-2"	7	0'-0 5/16"	3 1/4"	0'-0 5/16"	1 3/4"	6	0'-1"	7/16"	5/16"	0'-11 1/2"	0'-15"	
ISO16I080L152.1-000	L	III-A	5	27'-1"	5'-0 1/2"	1	6	31'-6"	5'-0 1/2"	7	0'-0 5/16"	3 1/4"	0'-0 5/16"	1 3/4"	6	0'-1"	7/16"	5/16"	0'-11 1/2"	0'-15"	
ISO16I094R072.7-000	U	III-A	5	28'-0 1/4"	5'-2 3/4"	1	6	32'-7 1/2"	5'-2 3/4"	7	0'-0 5/16"	3 1/4"	0'-0 5/16"	1 3/4"	6	0'-1"	7/16"	5/16"	0'-11 1/2"	0'-15"	
ISO16I094L071.5-000	V	III-A	7	34'-10"	4'-8 1/2"	0	-	-	-	7	0'-0 5/16"	3 1/4"	0'-0 5/16"	1 1/2"	6	0'-1"	7/16"	5/16"	0'-11 1/2"	0'-15"	
ISO16I094L064.3-000	2	I-A	7	35'-3 1/4"	4'-9 1/4"	0	-	-	-	5	0'-0 5/16"	2 1/2"	0'-0 5/16"	1 3/4"	6	0'-0 7/8"	5/16"	1/4"	0'-8 3/4"	0'-11 3/4"	
ISO16I094L063.8-000	3	I-A	7	35'-3 1/4"	4'-9 1/4"	0	-	-	-	5	0'-0 5/16"	2 1/2"	0'-0 5/16"	1 3/4"	6	0'-0 7/8"	5/16"	1/4"	0'-8 3/4"	0'-11 3/4"	
ISO16I094R064.2-000	4	I-A	8	38'-2 1/2"	4'-6 1/2"	0	-	-	-	5	0'-0 5/16"	2 1/2"	0'-0 5/16"	2"	6	0'-0 7/8"	5/16"	1/4"	0'-8 3/4"	0'-11 3/4"	
ISO16I094L031.6-000	21	I-A	7	33'-4 1/2"	4'-6"	0	-	-	-	5	0'-0 5/16"	2 1/2"	0'-0 5/16"	2 1/8"	6	0'-0 7/8"	5/16"	1/4"	0'-8 3/4"	0'-11 3/4"	
ISO16I094L030.8-000	22	III-A	8	39'-10 1/2"	4'-9"	0	-	-	-	7	0'-0 5/16"	3 1/4"	0'-0 5/16"	1 1/2"	6	0'-1"	7/16"	5/16"	0'-11 1/2"	0'-15"	

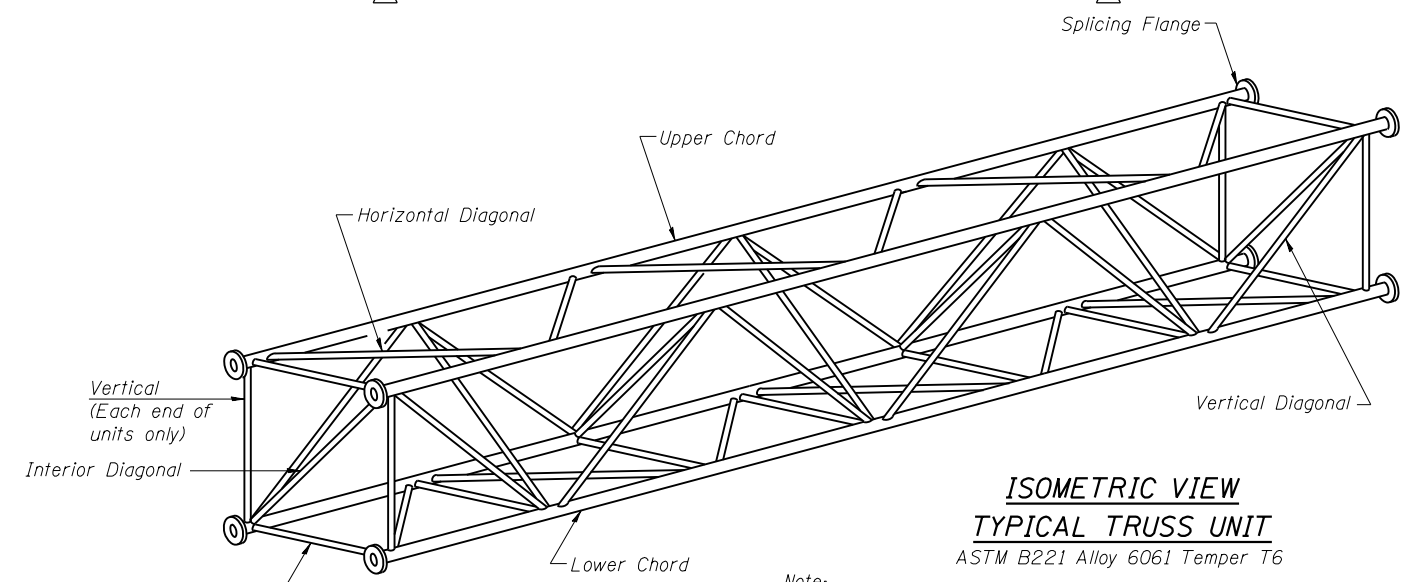


**SECTION B-B**

High Strength bolts with locknuts or (if members interfere) threaded studs with 2 locknuts. Use stainless steel washers under head and nut. See table.

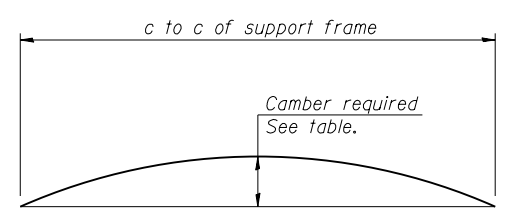
① Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining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

② It is the contractors responsibility to verify/calculate all the measurements & elevations in the field prior to fabrications, and ensure they are compliant with IDOT Standards.



**ISOMETRIC VIEW TYPICAL TRUSS UNIT**  
ASTM B221 Alloy 6061 Temper T6

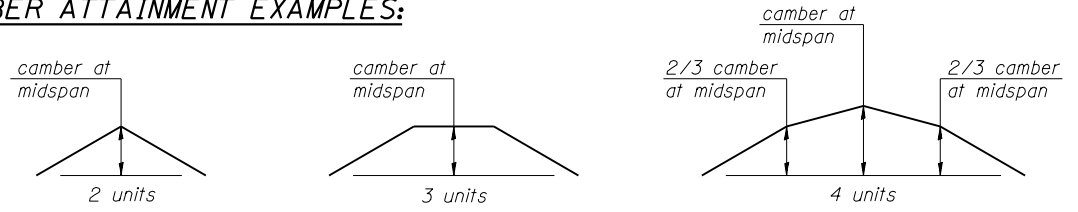
Note: Units shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection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



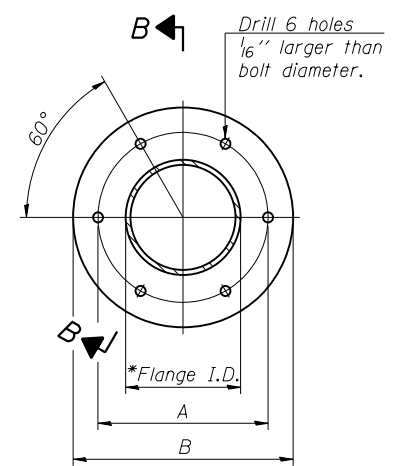
**CAMBER DIAGRAM**

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

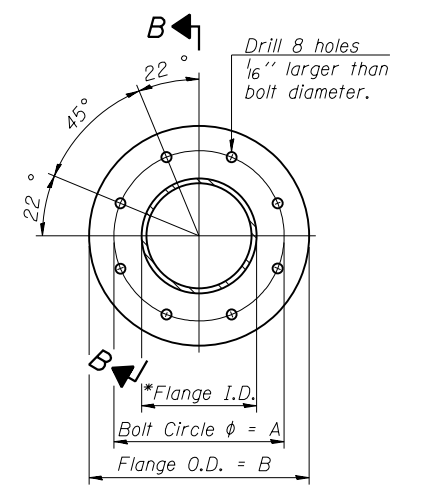
**CAMBER ATTAINMENT EXAMPLES:**



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



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



**TRUSS TYPES II-A & III-A**

**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".

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OS4-A-2

6-1-12

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DRAWN - BAS / LP	CHECKED - HM	REVISED -
PLOT SCALE = 100.0000' / in.	DATE - 11/03/17	REVISED -
PLOT DATE = 10/22/2018		

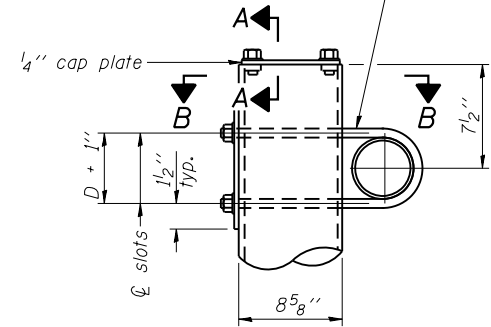
**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

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

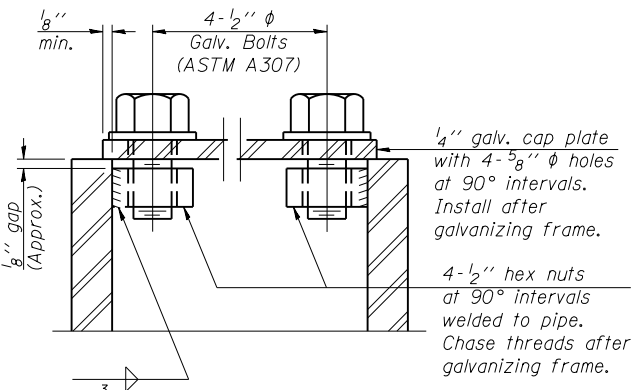
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35		COOK	79	13
CONTRACT NO. 46473				
ILLINOIS FED. AID PROJECT				

3/4" φ stainless steel U-bolt.  
Provide two washers and two hexagon locknuts. (4)  
1 3/16" x 2" slots on 8" φ pipe.  
(4 slots required per pipe)

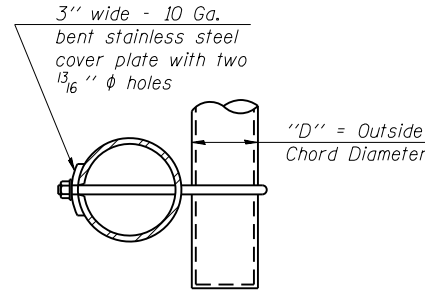


DETAIL A

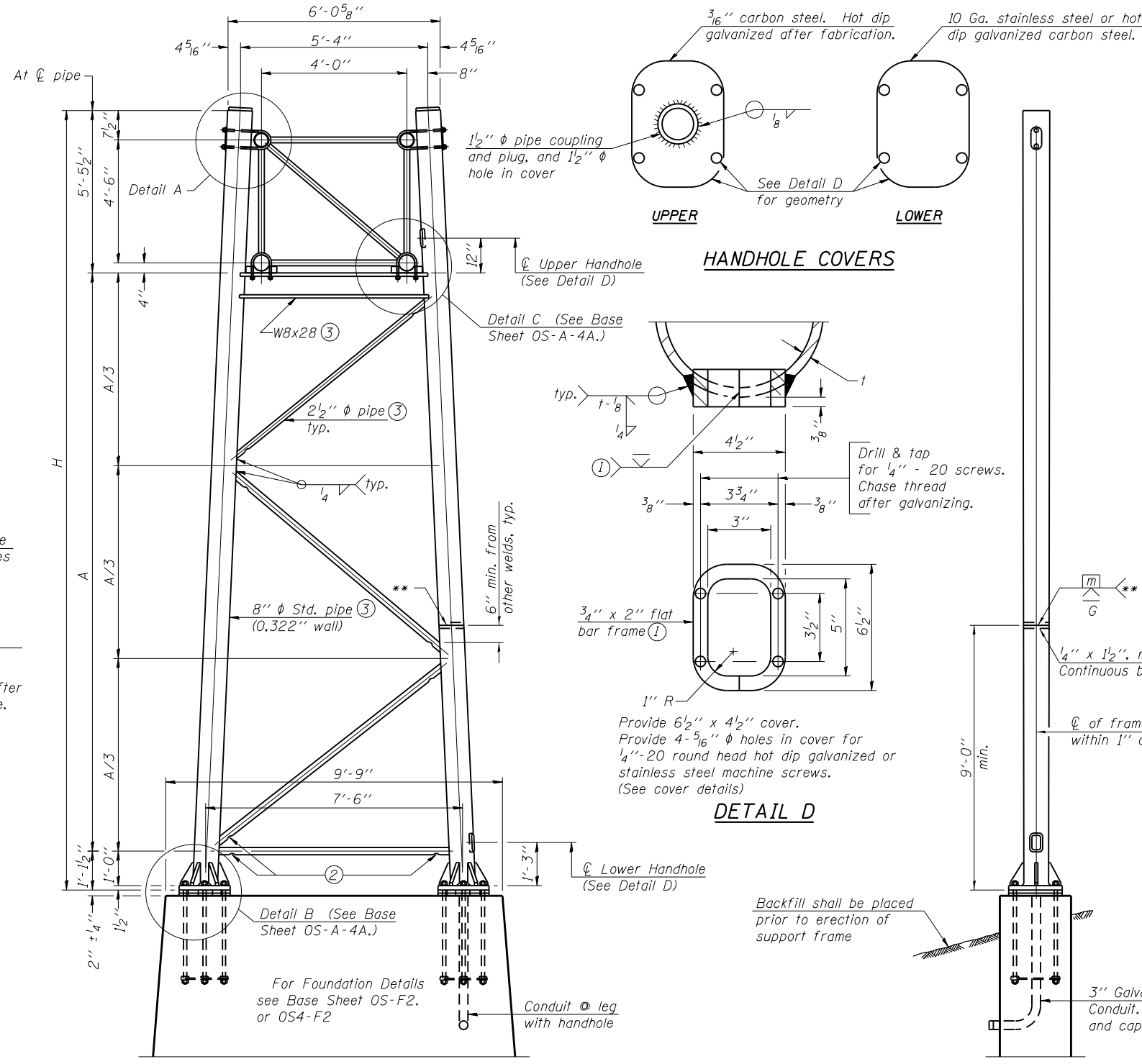


SECTION A-A

As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.



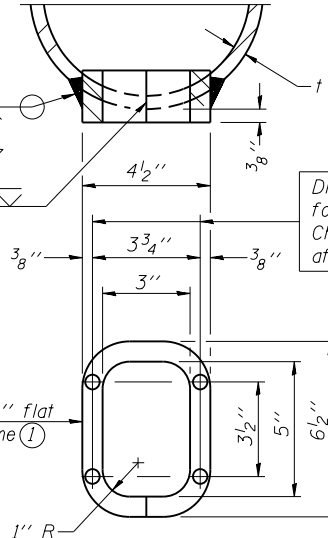
SECTION B-B



SIDE ELEVATION

END ELEVATION

HANDHOLE COVERS



DETAIL D

8" 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

- ① 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 μin or less.
- ② 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.
- ③ 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.
- ④ See General Notes for fasteners.
- ⑤ Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.
- ⑥ "H" based on 15'-0" or actual sign height, whichever is greater.
- ⑦ It is the contractor's responsibility to verify/calculate all the measurements & elevations in the field prior to fabrication.
- ⑧ The Contractor shall be responsible for field verifying existing field measurements and verify existing survey elevation prior to shop drawings and fabrication also the proposed dimensions for the end support heights to ensure minimum clearance (17'-3") above roadway crown and top of concrete foundation elevation above the ground shall be minimum 2'-6". In the event guard rail installation will be attached to the foundations, the top of the foundation elevation shall exceed the height of the guardrail for proper attachment.

Structure Number	Location	Support (7)		H (7)	A (7)
		Left	Right		
ISO161080R150.5-000	J	X		26.13'	20.67'
ISO161080R150.5-000	J		X	26.25'	20.79'
ISO161094L064.3-000	2	X		26.73'	21.27'
ISO161094L064.3-000	2		X	26.55'	21.09'
ISO161094L063.8-000	3	X		24.60'	18.02'
ISO161094L063.8-000	3		X	24.46'	17.89'
ISO161094R064.2-000	4	X		24.22'	17.65'
ISO161094R064.2-000	4		X	23.80'	17.23'
ISO161094L031.6-000	21	X		22.94'	16.37'
ISO161094L031.6-000	21		X	23.87'	17.30'
ISO161094L030.8-000	22	X		22.62'	16.05'
ISO161094L030.8-000	22		X	25.53'	18.96'

OS-A-4

6-1-12

USER NAME = pociechal	DESIGNED - BR / MDM	REVISED - LP 10/20/2018
PLOT SCALE = 100.0000' / in.	CHECKED - HM	REVISED -
PLOT DATE = 10/22/2018	DATE - 11/03/17	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

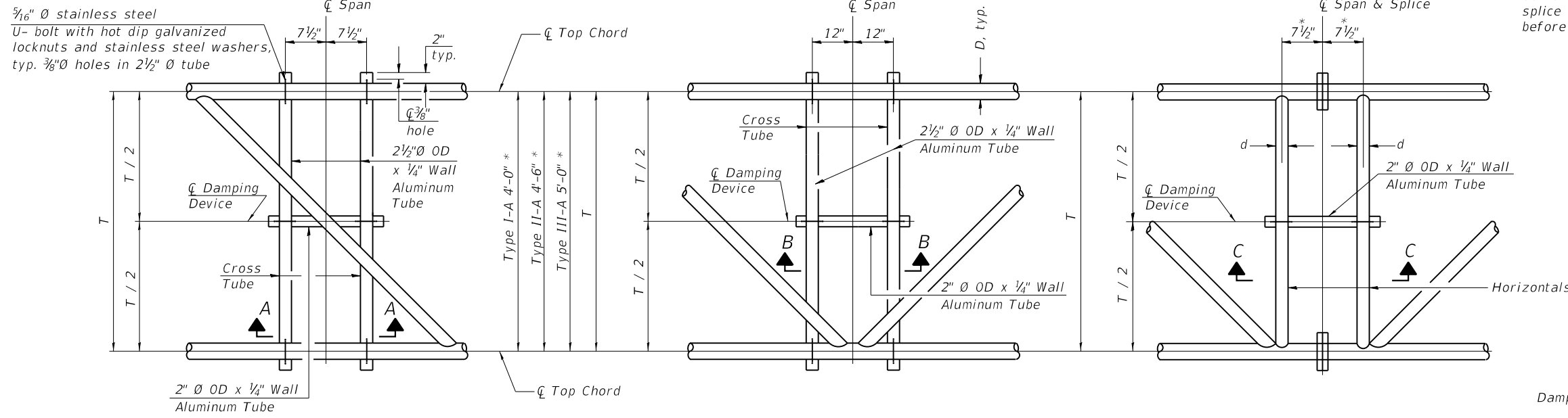
OVERHEAD SIGN STRUCTURES  
SUPPORT FRAME FOR TYPE I-A ALUMINUM TRUSS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35		COOK	79	14
CONTRACT NO. 46473				
ILLINOIS FED. AID PROJECT				

MODEL: Default  
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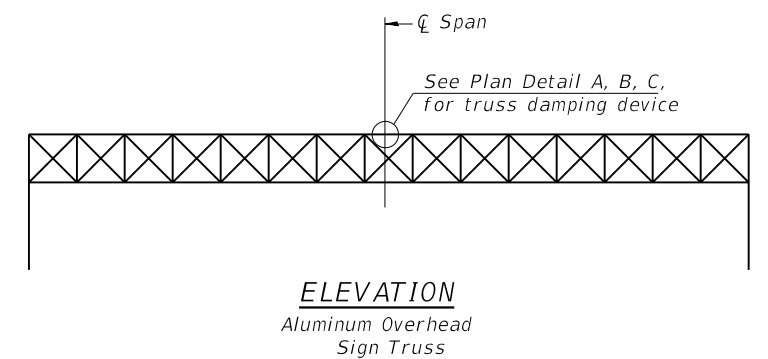
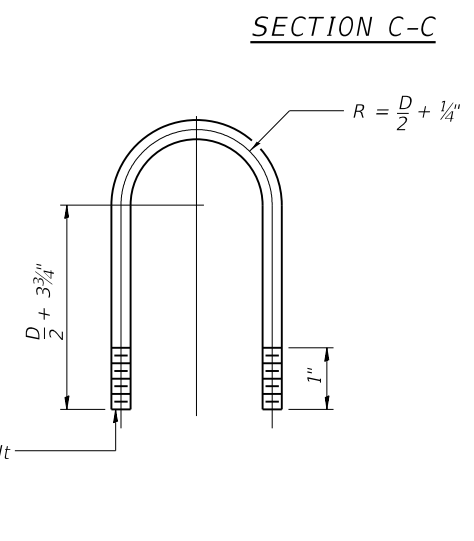
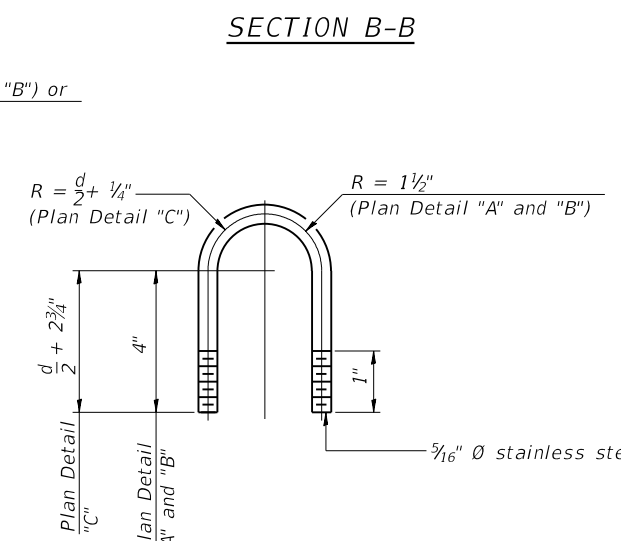
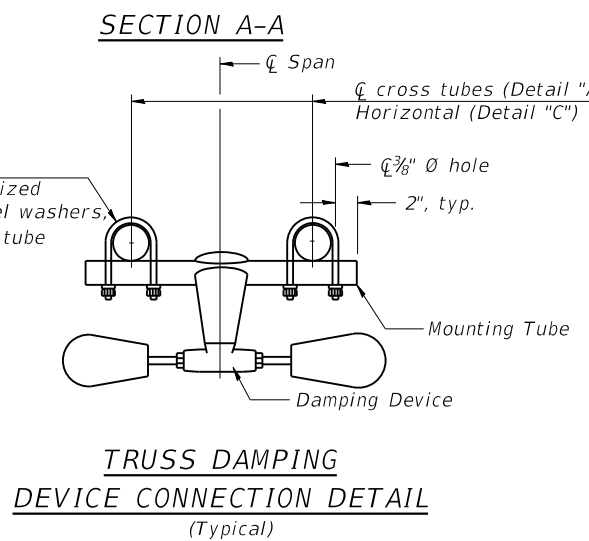
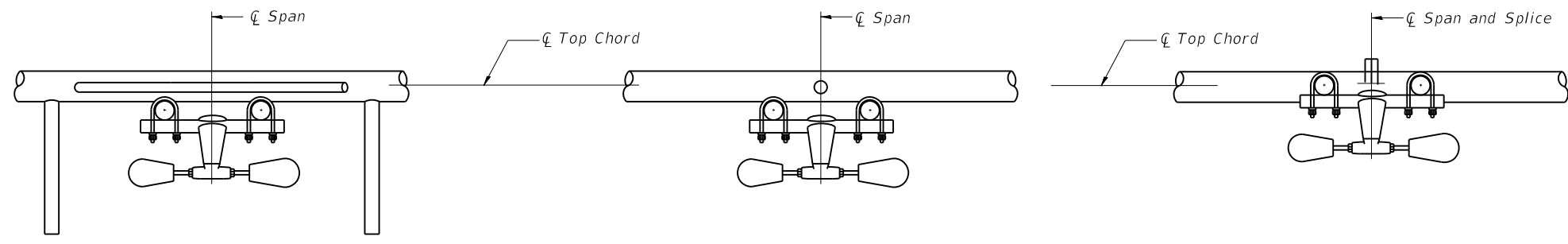


\* Center of horizontal to center of splice dimension may vary. Verify before drilling holes in mounting tube.

**NOTES**

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

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



MODEL: D:\p01\...  
 FILE NAME: p01\...  
 PROJECT: ...  
 OFFICE: ...  
 DATE: ...

05-A-D

2-17-2017

USER NAME = pocielch	DESIGNED - BR / MDM	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - BAS / LP	REVISED -
PLOT DATE = 8/16/2018	CHECKED - HM	REVISED -
	DATE - 11/03/17	REVISED -

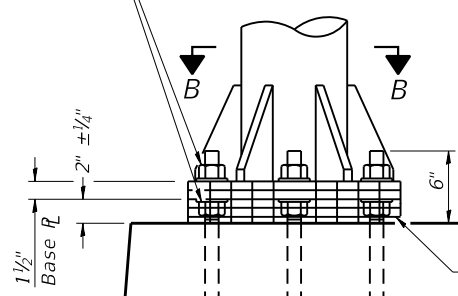
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURE**  
**DAMPING DEVICE**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35		COOK	79	16
CONTRACT NO. 46473				
ILLINOIS FED. AID PROJECT				

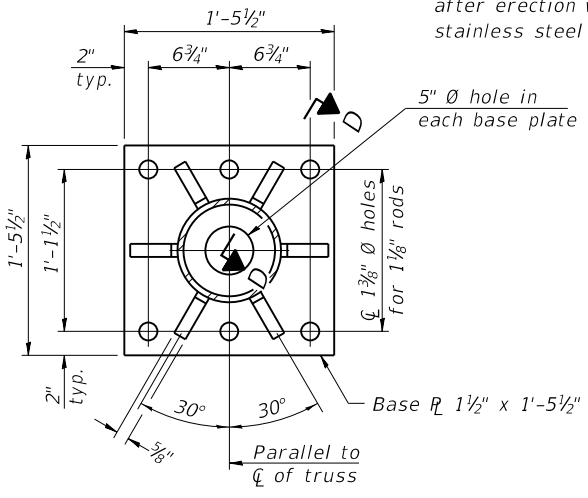
Hexagon locknut and washer (top), leveling nut and washer (bottom). Galvanize per AASHTO M232. Nuts shall each be tightened against base plate with 200 lb.-ft. minimum torque.



**DETAIL B**

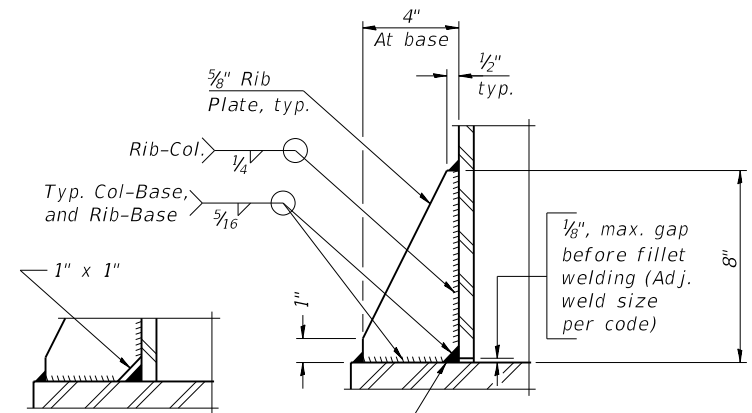
Ribs shall be cut to fit slope of pipe.

Stainless Steel Standard Grade Wire Cloth, 3" wide, 1/4" maximum opening with a minimum wire diameter of AWG. No. 16 with a minimum 2" lap. Secure to base plate after erection with 3/4" stainless steel banding.



**SECTION B-B**

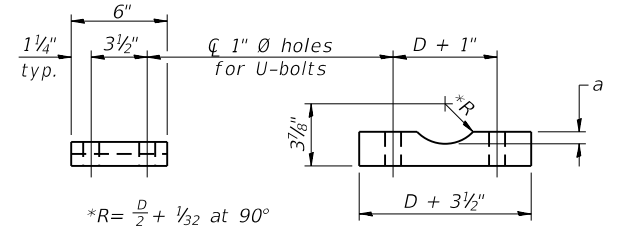
Base Pl. 1 1/2" x 1'-5 1/2" x 1'-5 1/2"



**SECTION D-D**

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

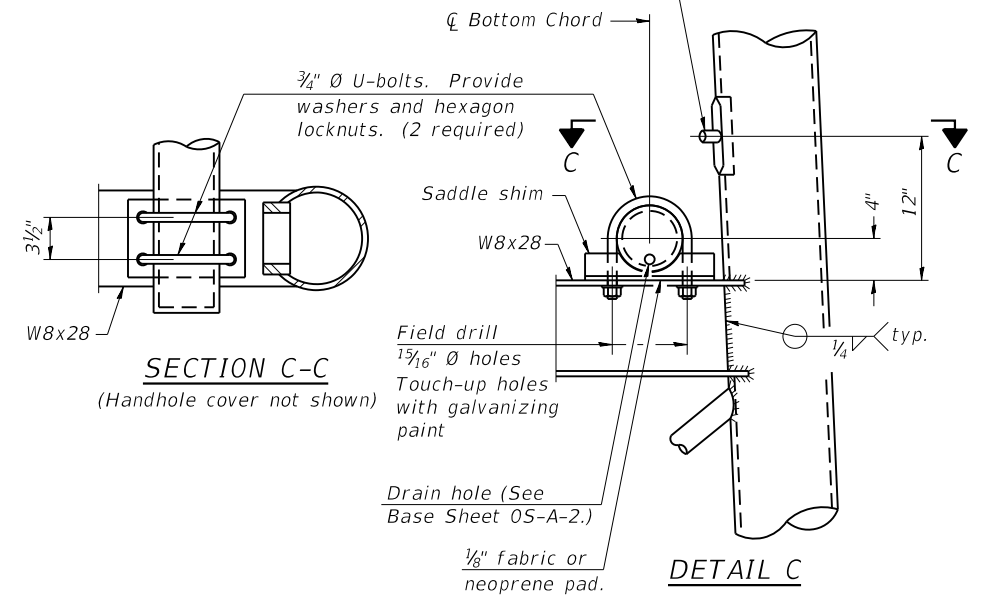
No snip req'd. at rib inside corner if placed before col. to base plate welding.\*\*



**SADDLE SHIM DETAIL**

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

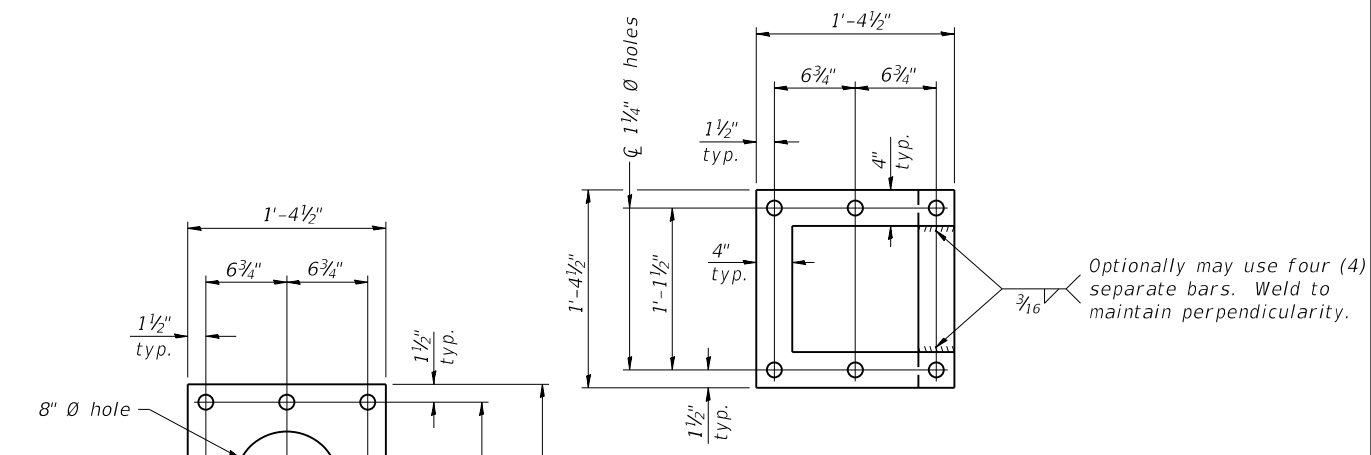
Truss Chord Nominal Dia.	a
5"	3/4"
5 1/2"	1 3/16"
6"	7/8"
6 1/2"	1 5/16"



**SECTION C-C**

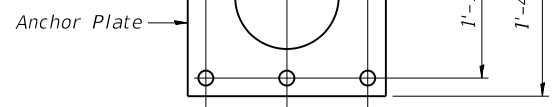
(Handhole cover not shown)

**DETAIL C**

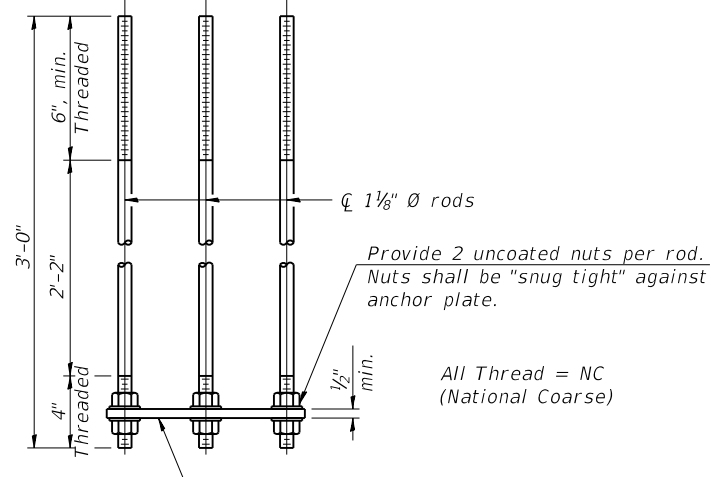


**POSITIONING PLATE(S)**

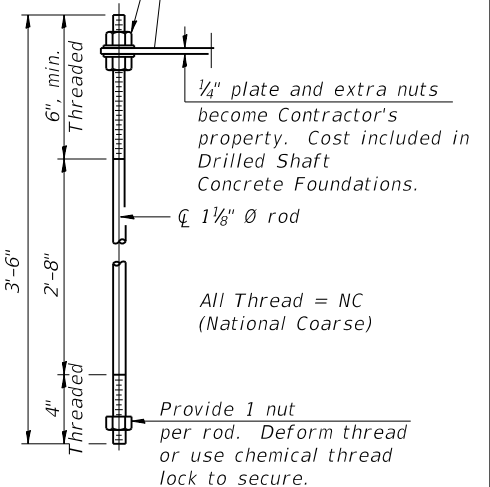
Optionally may use four (4) separate bars. Weld to maintain perpendicularity.



**Anchor Plate**



**ANCHOR ROD DETAIL**  
Spread Footing Foundation



**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.

**TYPE I-A TRUSS**  
**8" Ø PIPE SUPPORT FRAME DETAILS**

MODEL: Default FILE: \\nas01\B&E\BID\ITEC\Illinois\pov\PW\DOT\Documents\BIDD\Office\BID\Irtet\_1\pov\scs\m60009\18\CAD\B&E\Traffic\M60009\18-oh-std.dgn

05-A-4A

2-17-2017

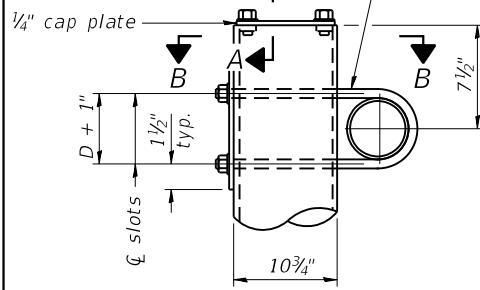
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PLOT SCALE = 100,0000' / in.	DRAWN - BAS / LP	REVISED -
PLOT DATE = 8/16/2018	CHECKED - HM	REVISED -
	DATE - 11/03/17	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

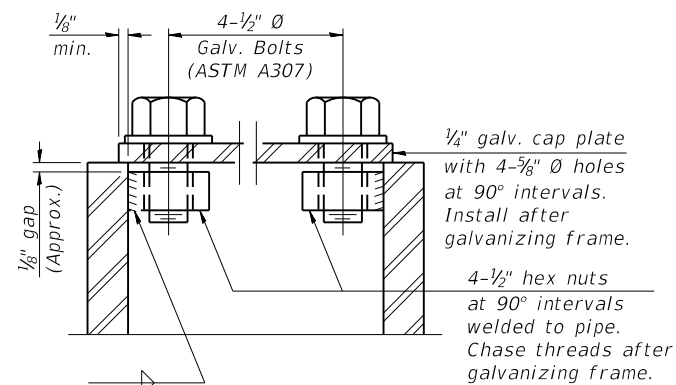
<b>OVERHEAD SIGN STRUCTURES</b>			
<b>SUPPORT FRAME DETAILS - ALUMINUM TRUSS</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D-1 OVD SIN STR REPL 18-35	COOK	79	17
CONTRACT NO. 46473				
ILLINOIS FED. AID PROJECT				

3/4" Ø stainless steel U-bolt.  
Provide two washers and two hexagon locknuts. (4)  
1 3/16" x 2" slots on 10" Ø pipe.  
(4 slots required per pipe)

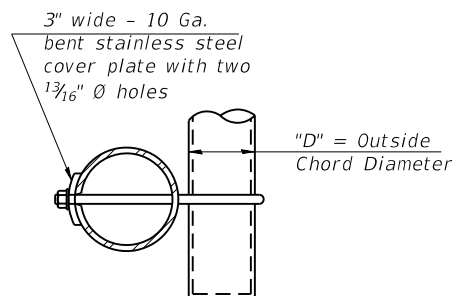


DETAIL A

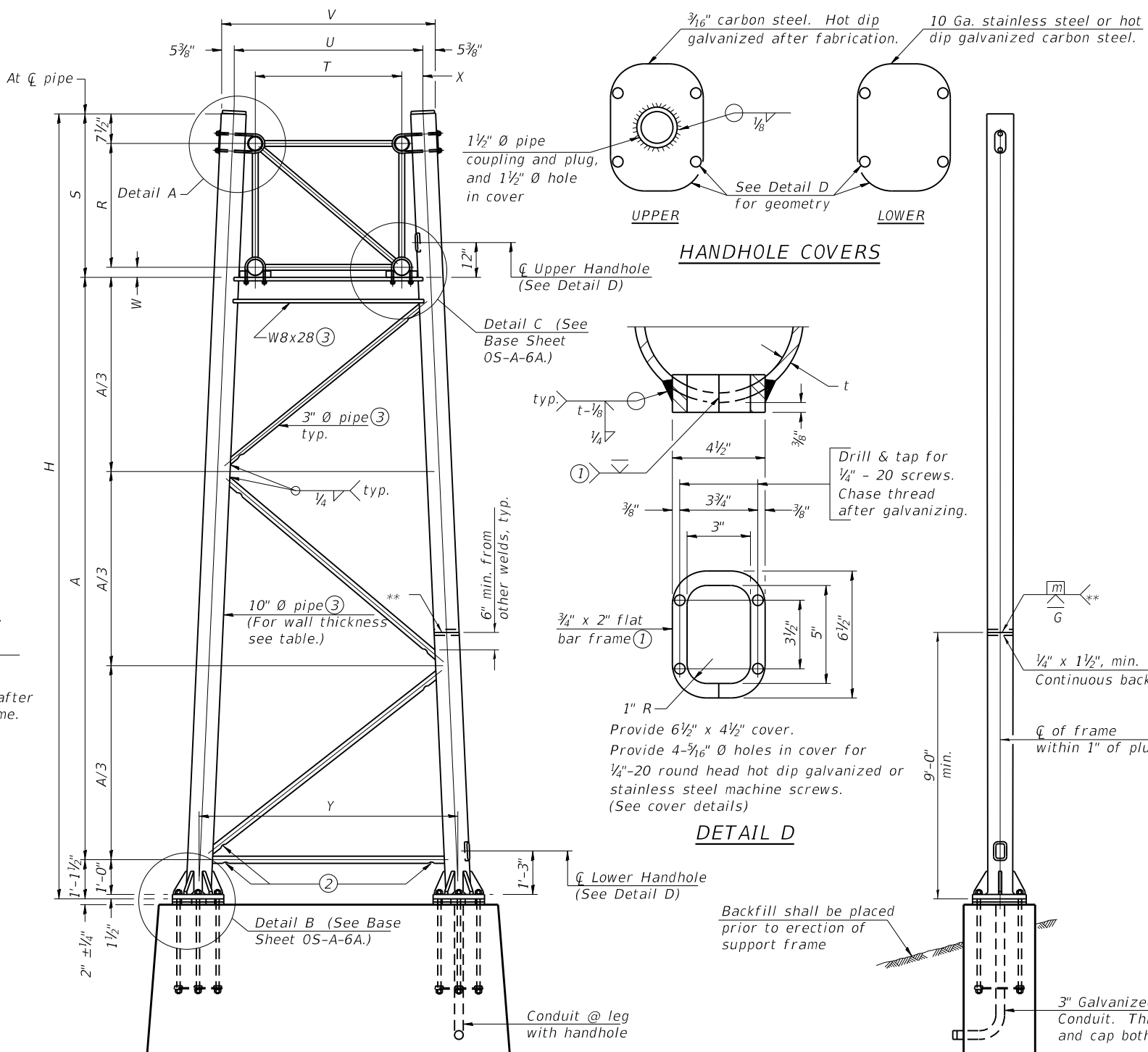


SECTION A-A

As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.



SECTION B-B



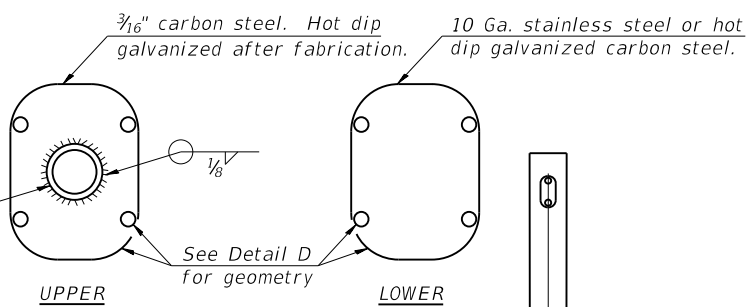
For Foundation Details, see base sheet OS-F3 (Spread Footing) or OS4-F3 (Drilled Shaft).

SIDE ELEVATION

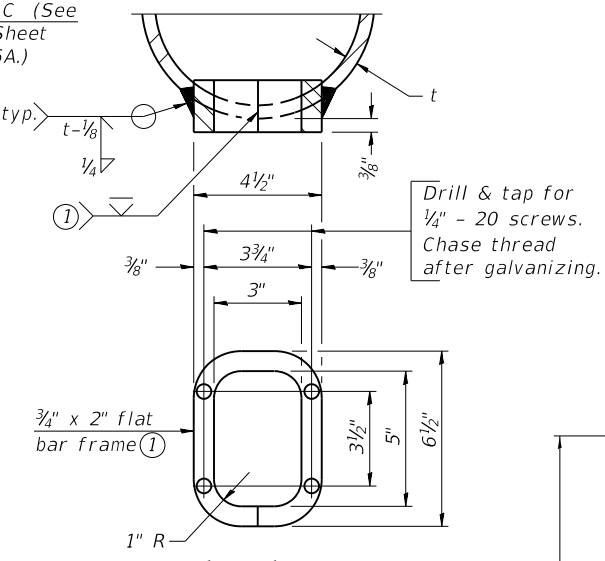
Truss Type	Dimensions							
	R	S	T	U	V	W	X	Y
I-A	4'-6"	5'-5 1/2"	4'-0"	5'-6"	6'-4 3/4"	4"	9"	8'-3"
II-A (5)	5'-3"	6'-3 1/4"	4'-6"	6'-1"	6'-11 3/4"	4 3/4"	9 1/2"	8'-3"

10" Ø PIPE TRUSS SUPPORT FRAME

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

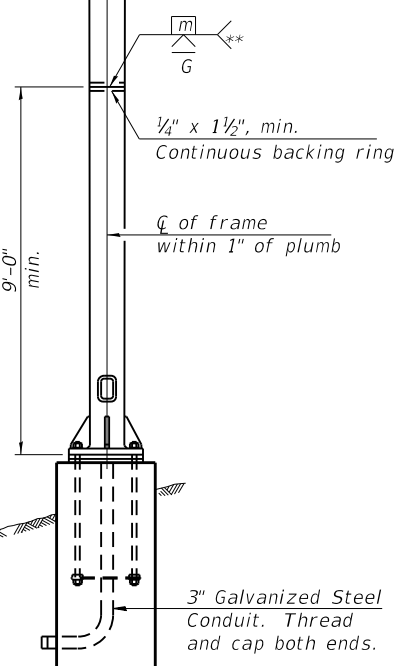


HANDHOLE COVERS



DETAIL D

Backfill shall be placed prior to erection of support frame



END ELEVATION

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 500µ in or less.
- Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.
- Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet 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.
- It is the contractor's responsibility to verify/calculate all the measurements & elevations in the field prior to fabrication.
- The Contractor shall be responsible for field verifying existing field measurements and verify existing survey elevation prior to shop drawings and fabrication also the proposed dimensions for the end support heights to ensure minimum clearance (17'-3") above roadway crown and top of concrete foundation elevation above the ground shall be minimum 2'-6". In the event guard rail installation will be attached to the foundations, the top of the foundation elevation shall exceed the height of the guardrail for proper attachment.

Structure Number	Location	Support		Truss Type	Pipe Wall Thickness	H (6)	A
		Left	Right				
ISO161094L063.8-000	3	X		I-A	0.279	28.68'	23.22'
ISO161094L063.8-000	3		X	I-A	0.279	28.55'	23.09'
ISO161094R064.2-000	4	X		I-A	0.279	28.32'	22.86'
ISO161094R064.2-000	4		X	I-A	0.279	27.89'	22.43'
ISO161094L031.6-000	21	X		I-A	0.279	28.56'	23.10'
ISO161094L031.6-000	21		X	I-A	0.279	29.99'	24.53'

05-A-6

2-17-2017

USER NAME = pociechal	DESIGNED - BR / MDM	REVISED - LP 10/22/2018
PLOT SCALE = 100,0000' / in.	DRAWN - BAS / LP	REVISED -
PLOT DATE = 10/22/2018	CHECKED - HM	REVISED -
	DATE - 10/22/18	REVISED -

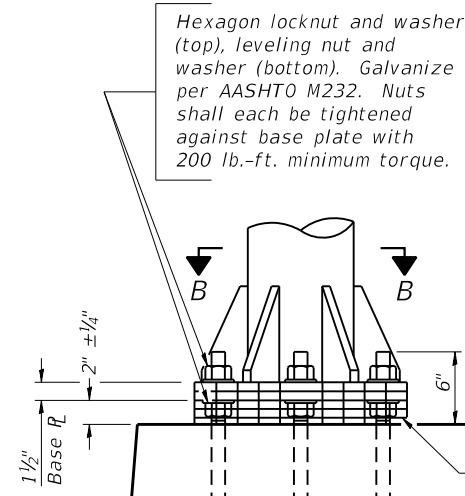
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES  
SUPPORT FRAME FOR ALUMINUM TRUSS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35		COOK	79	17A
CONTRACT NO. 46473				
ILLINOIS FED. AID PROJECT				

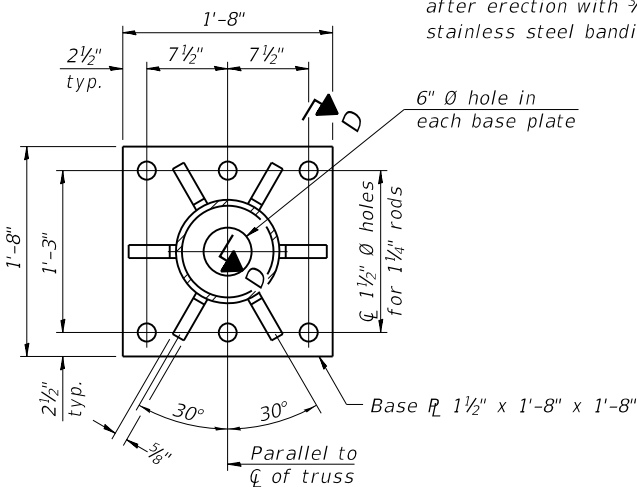




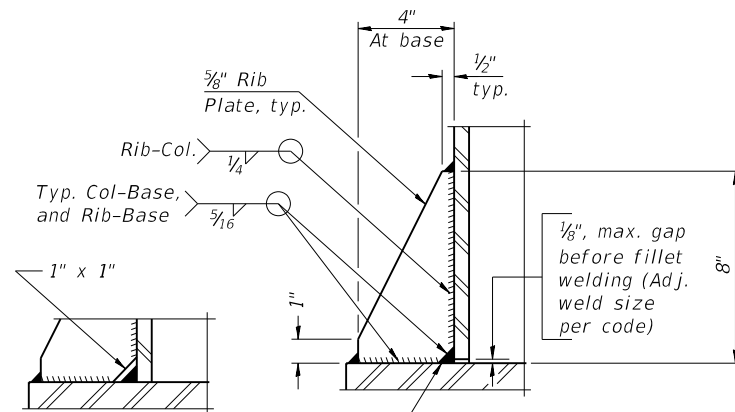
**DETAIL B**

Ribs shall be cut to fit slope of pipe.

Stainless Steel Standard Grade Wire Cloth, 3" wide, 1/4" maximum opening with a minimum wire diameter of AWG. No. 16 with a minimum 2" lap. Secure to base plate after erection with 3/4" stainless steel banding.



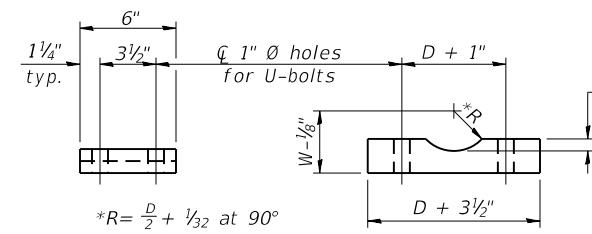
**SECTION B-B**



**SECTION D-D**

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

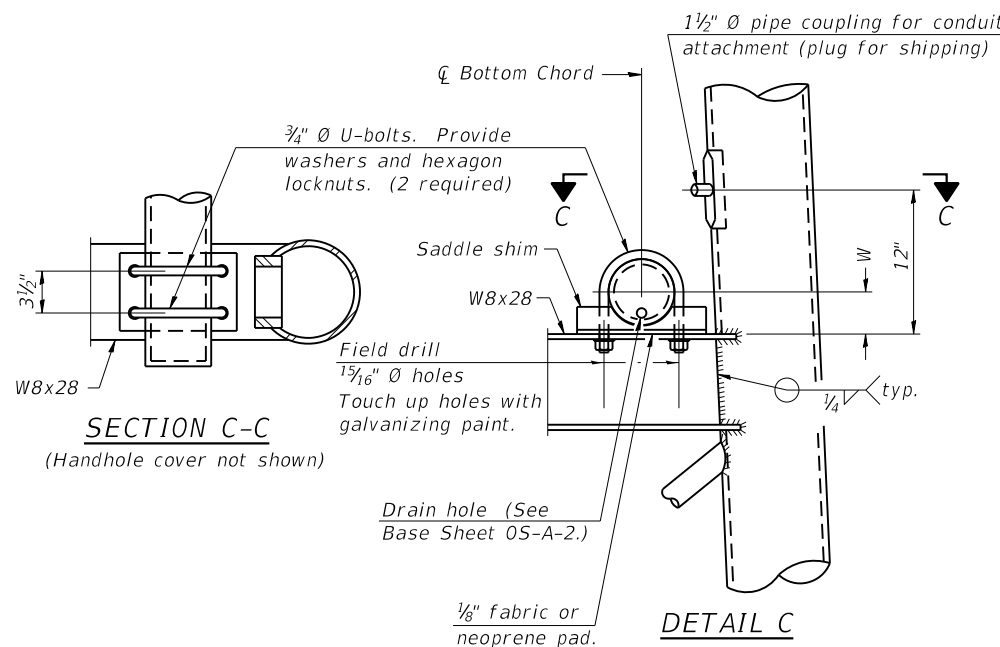
No snip req'd. at rib inside corner if placed before col. to base plate welding.\*\*



**SADDLE SHIM DETAIL**

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

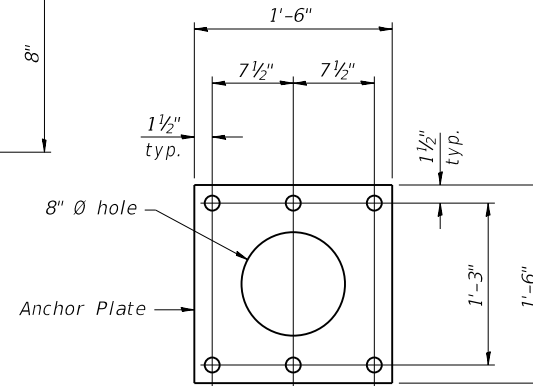
Truss Chord Nominal Dia.	a
5"	3/4"
5 1/2"	1 3/16"
6"	7/8"
6 1/2"	1 5/16"
7"	1"



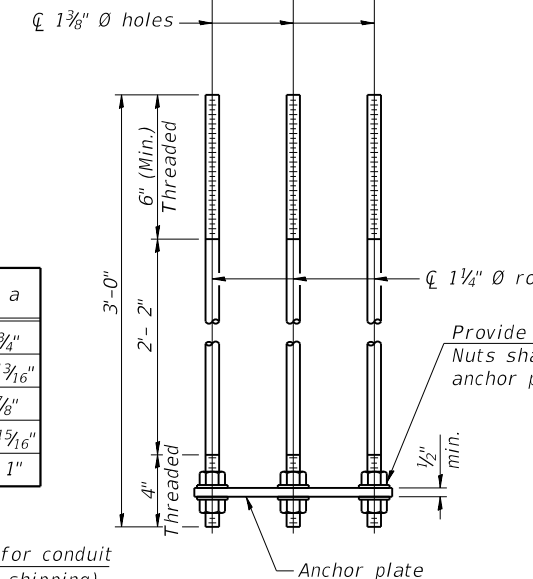
**SECTION C-C**

(Handhole cover not shown)

**DETAIL C**



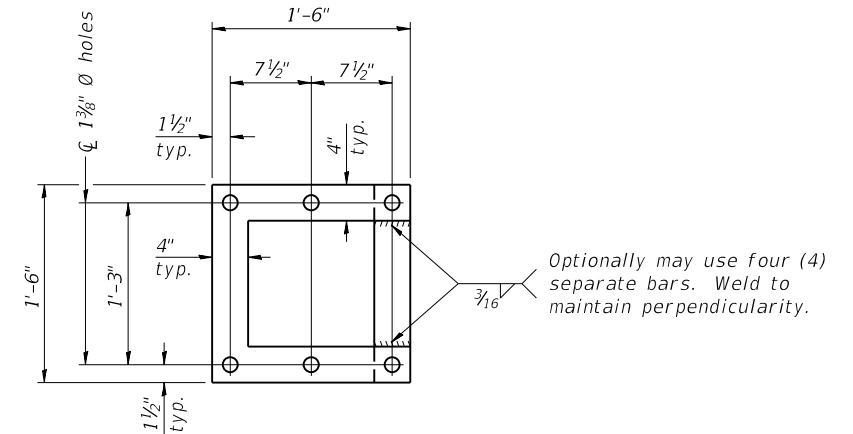
**Anchor Plate**



**ANCHOR ROD DETAIL**  
Spread Footing Foundation

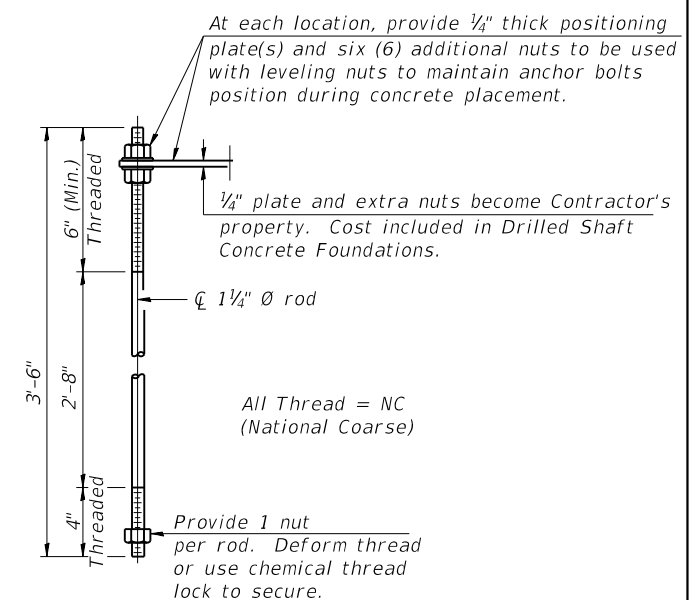
Provide 2 uncoated nuts per rod. Nuts shall be "snug tight" against anchor plate.

All Thread = NC (National Coarse)



**POSITIONING PLATE(S)**

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



**ANCHOR ROD DETAIL**  
Drilled Shaft Foundation

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.

All Thread = NC (National Coarse)

Provide 1 nut per rod. Deform thread or use chemical thread lock to secure.

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

**10" Ø PIPE SUPPORT FRAME DETAILS**

05-A-6A

2-17-2017

USER NAME = pociechal	DESIGNED - BR / MDM	REVISED - LP 10/22/2018
PLOT SCALE = 100,0000' / in.	DRAWN - BAS / LP	REVISED -
PLOT DATE = 10/22/2018	CHECKED - HM	REVISED -
	DATE - 10/22/18	REVISED -

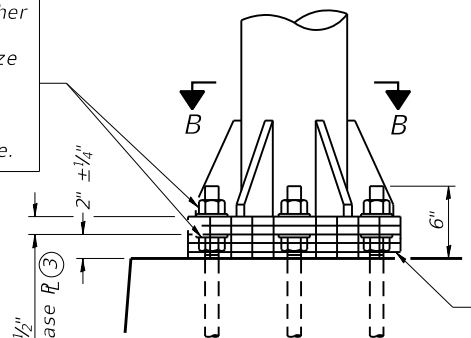
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES  
SUPPORT FRAME DETAILS - ALUMINUM TRUSS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35		COOK	79	17B
CONTRACT NO. 46473				
ILLINOIS FED. AID PROJECT				

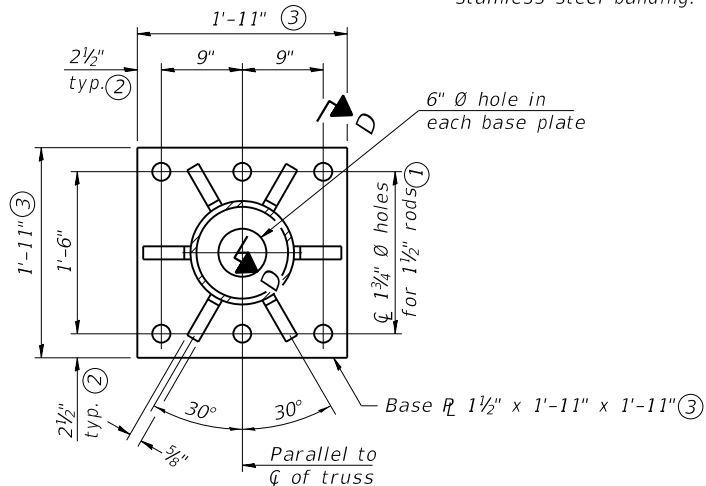
Hexagon locknut and washer (top), leveling nut and washer (bottom). Galvanize per AASHTO M232. Nuts shall each be tightened against base plate with 200 lb.-ft. minimum torque.



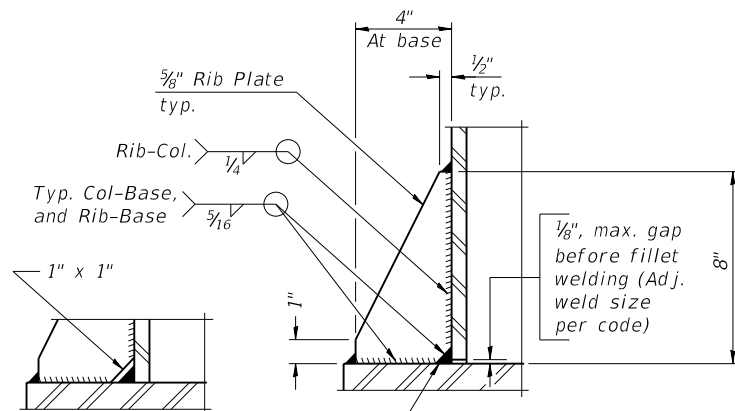
**DETAIL B**

Ribs shall be cut to fit slope of pipe.

Stainless Steel Standard Grade Wire Cloth, 3" wide, 1/4" maximum opening with a minimum wire diameter of AWG. No. 16 with a minimum 2" lap. Secure to base plate after erection with 3/4" stainless steel banding.



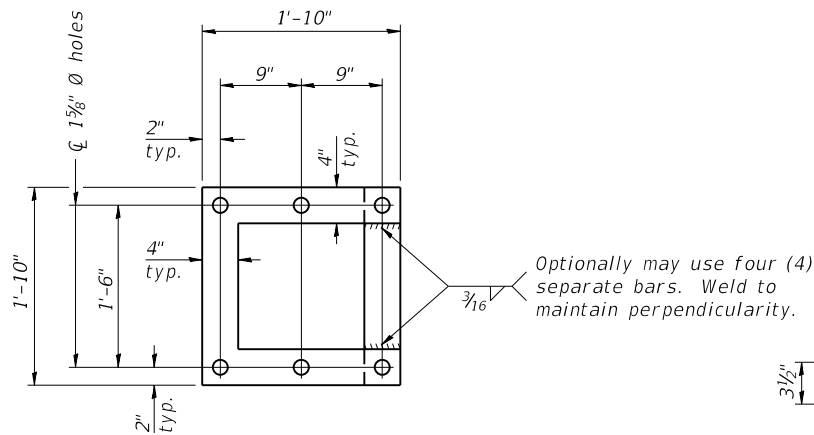
**SECTION B-B**



**SECTION D-D**

\*\* 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.\*\*

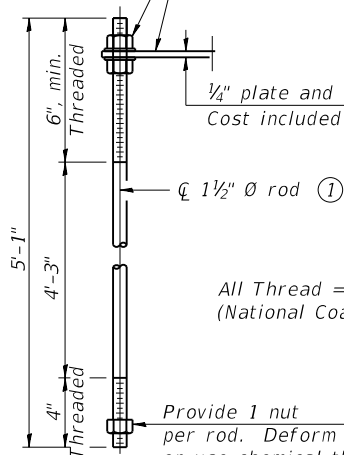


**POSITIONING PLATE(S)**

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 Foundation".



**ANCHOR ROD DETAIL**

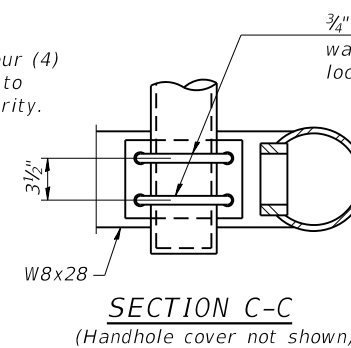
Anchor rods shall conform to ASTM F1554 Grade 105 Galvanize upper 12" minimum per AASHTO M232. No welding shall be permitted on rods.

**TYPE III-A TRUSS**

**12" Ø PIPE SUPPORT FRAME DETAILS**

Notes:  
For Type III-A Truss spans greater than 150 ft, and up to 160 ft.:

- ① 1 3/4" Ø rod, 2" Ø holes
- ② 2 3/4" edge distance
- ③ Base Pl 1 1/2" x 1'-11 1/2" x 1'-11 1/2"



**SECTION C-C**

(Handhole cover not shown)

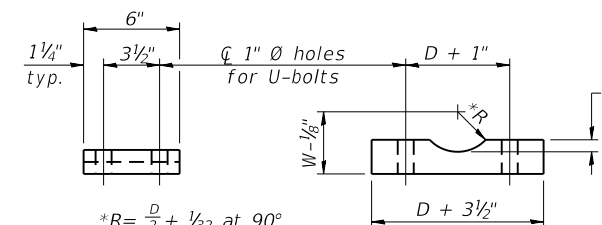
3/4" Ø U-bolts. Provide washers and hexagon locknuts. (2 required)

Saddle shim  
W8x28  
Field drill 1 5/16" Ø holes  
Touch up holes with galvanizing paint.

Drain hole (See Base Sheet OS-A-2.)

1/8" fabric or neoprene pad.

**DETAIL C**



**SADDLE SHIM DETAIL**

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

Truss Chord Nominal Dia.	a
7"	1"
8 1/2"	1 1/4"
9"	1 3/8"

054-A-8aA

2-17-2017

USER NAME = pociechal	DESIGNED - BR / MDM	REVISED -
DRAWN - BAS / LP	REVISED -	
PLOT SCALE = 100.0000' / in.	CHECKED - HM	REVISED -
PLOT DATE = 8/16/2018	DATE - 11/03/17	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

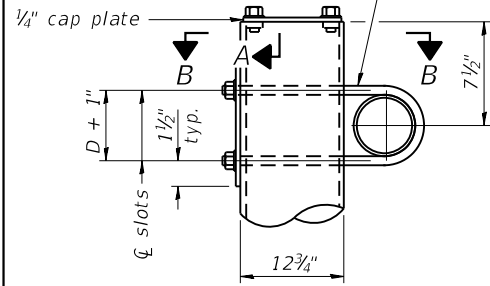
OVERHEAD SIGN STRUCTURES  
SUPPORT FRAME FOR TYPE III-A ALUMINUM TRUSS

SCALE: SHEET OF SHEETS STA. TO STA.

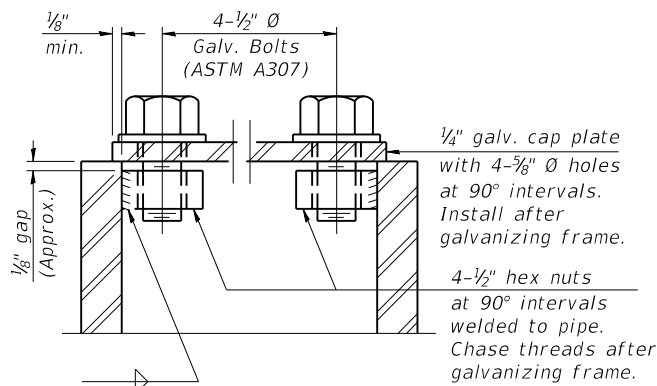
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D-1 OVD SIN STR REPL 18-35	COOK	79	18
CONTRACT NO. 46473				
ILLINOIS FED. AID PROJECT				

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3/4" Ø stainless steel U-bolt.  
Provide two washers and two hexagon locknuts. (4)  
1 3/16" x 2" slots on 1 1/2" Ø pipe.  
(4 slots required per pipe)

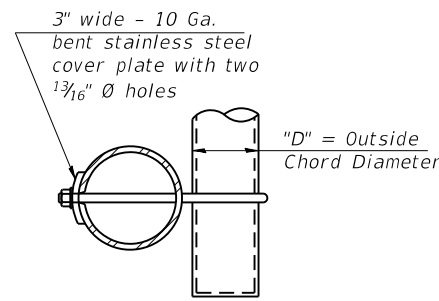


DETAIL A

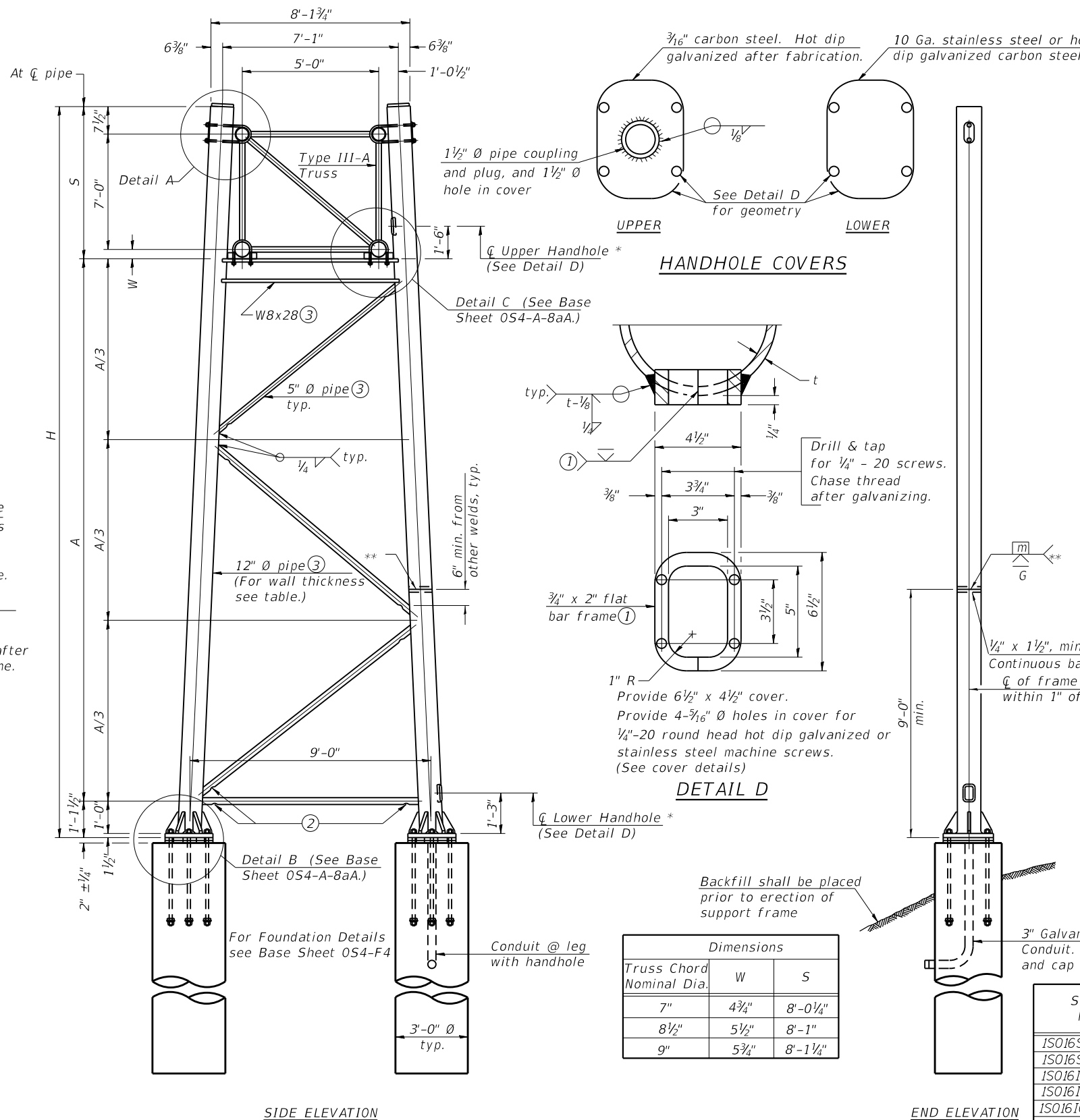


SECTION A-A

As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.



SECTION B-B



SIDE ELEVATION

END ELEVATION

TRUSS SUPPORT DETAILS

(12" Ø Pipe-Type III-A Truss)

\*\* 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.

Dimensions		
Truss Chord Nominal Dia.	W	S
7"	4 3/4"	8'-0 1/4"
8 1/2"	5 1/2"	8'-1"
9"	5 3/4"	8'-1 1/4"

Structure Number	Location	Support (7)		Pipe Wall Thickness	H (6) (7)	A (7)
		Left	Right			
ISO16S171L000.0-000	A	X		0.33	26.95'	18.93'
ISO16S171L000.0-000	A		X	0.33	27.03'	19.01'
ISO16I080L149.2-000	K	X		0.33	26.62'	18.60'
ISO16I080L149.2-000	K		X	0.33	26.88'	18.86'
ISO16I055L282.6-000	G	X		0.33	28.62'	20.60'
ISO16I055L282.6-000	G		X	0.33	31.24'	23.22'
ISO16I080L152.1-000	L	X		0.33	24.76'	16.74'
ISO16I080L152.1-000	L		X	0.33	24.49'	16.47'
ISO16I094R072.7-000	U	X		0.33	27.07'	19.05'
ISO16I094R072.7-000	U		X	0.33	26.89'	18.87'
ISO16I094L071.5-000	V	X		0.33	26.88'	18.86'
ISO16I094L071.5-000	V		X	0.33	25.68'	17.66'
ISO16I094L030.8-000	22	X		0.33	28.46'	23.00'
ISO16I094L030.8-000	22		X	0.33	32.91'	27.45'

- Support Design Loads: See Base Sheet 05-A-1 for design and loading criteria.  
Load combinations checked include deadload plus:  
a) 100% wind normal to sign, 20% parallel to sign  
b) 60% wind normal to sign, 30% parallel to sign
- In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 µm or less.
  - Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.
  - Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet 05-A-1.
  - See General Notes for fasteners.
  - Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.
  - "H" based on 15'-0" or actual sign height, whichever is greater.
  - It is the contractor's responsibility to verify/calculate all the measurements & elevations in the field prior to fabrication.
  - The Contractor shall be responsible for field verifying existing field measurements and verify existing survey elevation prior to shop drawings and fabrication also the proposed dimensions for the end support heights to ensure minimum clearance (17'-3") above roadway crown and top of concrete foundation elevation above the ground shall be minimum 2'-6". In the event guard rail installation will be attached to the foundations, the top of the foundation elevation shall exceed the height of the guardrail for proper attachment.
- \* For dynamic message sign installations, provide upper and lower handholes in both legs of each support frame.

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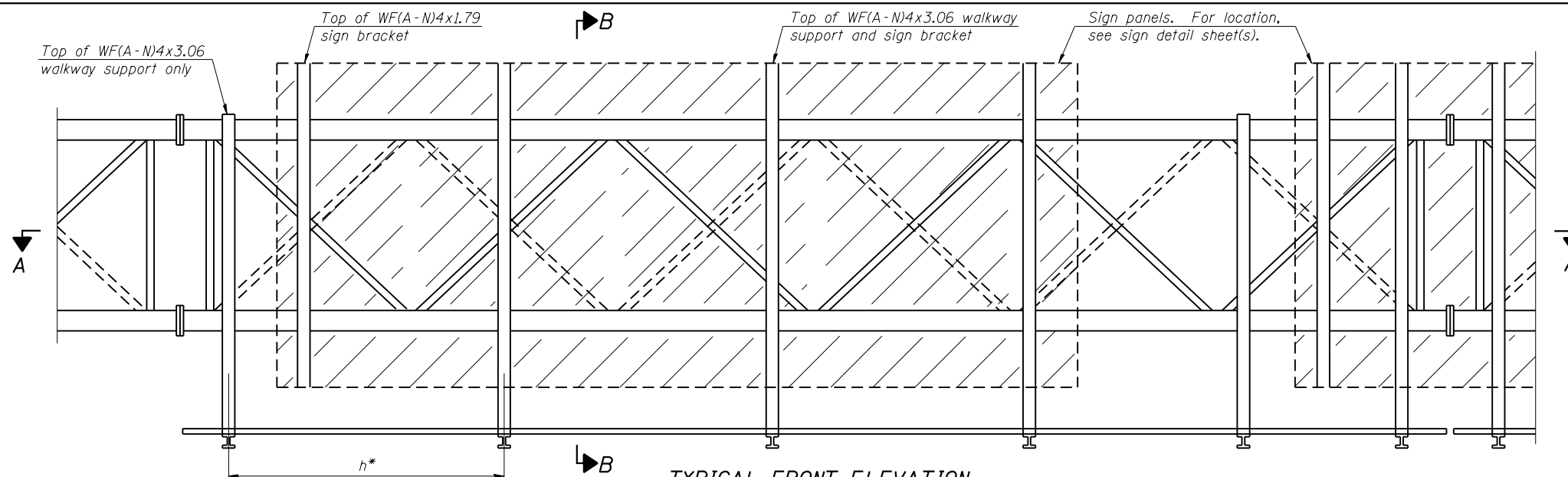
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PLOT SCALE = 100.0000' / in.	DATE - 11/03/17	REVISED -
PLOT DATE = 10/22/2018		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES - SUPPORT FRAME  
FOR TYPE III-A ALUMINUM TRUSS

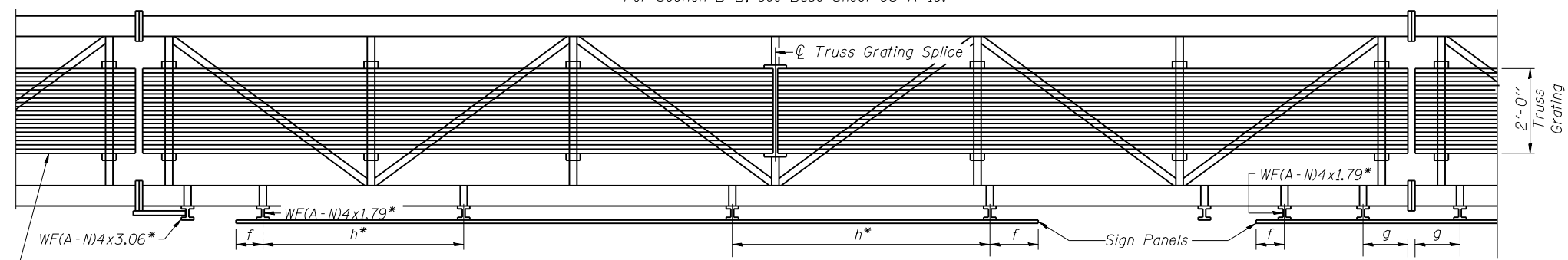
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35		COOK	79	19
CONTRACT NO. 46473				
ILLINOIS FED. AID PROJECT				



**TYPICAL FRONT ELEVATION**

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



**SECTION A-A**

Grating splices placed as needed, over horizontal tubes.

**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
8'-0"	14'-0"	3
14'-0"	20'-0"	4
20'-0"	26'-0"	5
26'-0"	32'-0"	6

**Notes:**

\* Space sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:

- f = 12" maximum, 4" minimum (End of sign to  $\mathcal{C}$  of nearest bracket)
- g = 12" maximum, 4" minimum (End of walkway grating to  $\mathcal{C}$  of nearest support bracket)
- h = 6'-0" maximum ( $\mathcal{C}$  to  $\mathcal{C}$  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

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	Location	a	b	c	d	e	Walkway Grating and Handrail Lengths
ISO16S17L000.0-000	A	-	-	-	-	-	0.0
ISO16I055L282.6-000	G	-	-	-	-	-	0.0
ISO16I080R150.5-000	J	-	-	-	-	-	0.0
ISO16I080L149.2-000	K	-	-	-	-	-	0.0
ISO16I080L152.1-000	L	-	-	-	-	-	0.0
ISO16I094R072.7-000	U	-	-	-	-	-	0.0
ISO16I094L071.5-000	V	-	-	-	-	-	0.0
ISO16I094L064.3-000	2	-	-	-	-	-	0.0
ISO16I094L063.8-000	3	-	-	-	-	-	0.0
ISO16I094R064.2-000	4	-	-	-	-	-	0.0
ISO16I094L031.6-000	21	-	-	-	-	-	0.0
ISO16I094L030.8-000	22	-	-	-	-	-	0.0

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

Truss Grating width dimensions are nominal and may vary  $\pm 1/2"$  based on available standard widths.

OS-A-9

6-1-12

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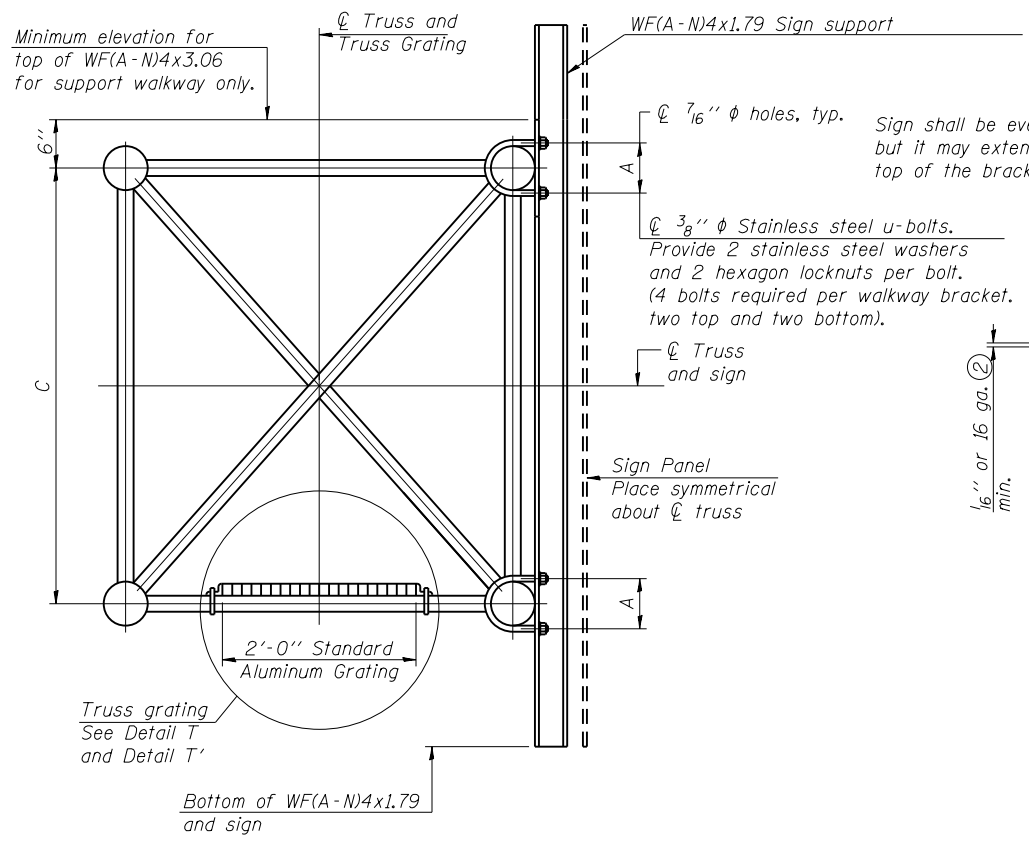
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PLOT DATE = 10/22/2018	CHECKED - HM	REVISED -
	DATE - 11/03/17	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES  
ALUMINUM WALKWAY DETAILS**

SCALE: SHEET OF SHEETS STA. TO STA.

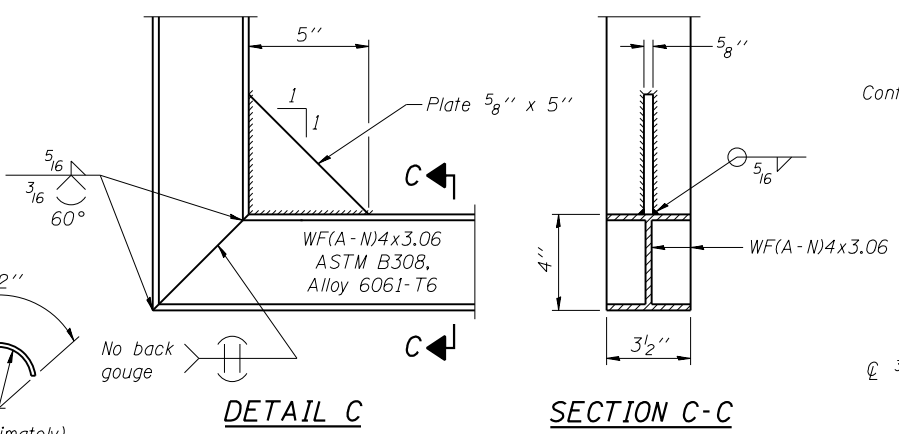
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D-1 OVD SIN STR REPL 18-35		COOK	79	20
CONTRACT NO. 46473				
ILLINOIS FED. AID PROJECT				



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.

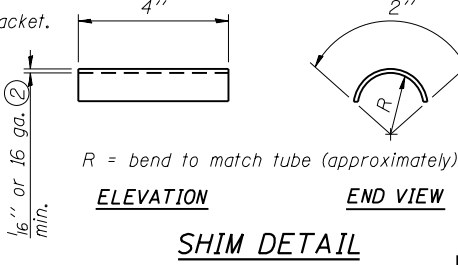
Provide 2 stainless steel washers and 2 hexagon locknuts per bolt. (4 bolts required per walkway bracket, two top and two bottom).

Place symmetrical about centerline of truss



DETAIL C

SECTION C-C

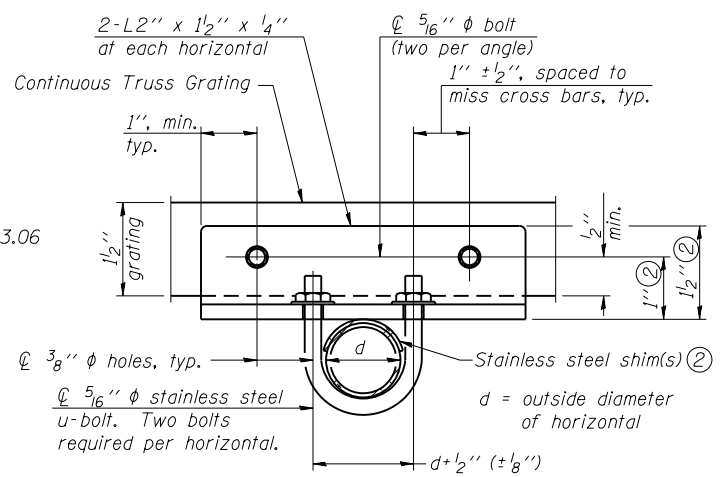


R = bend to match tube (approximately)

ELEVATION

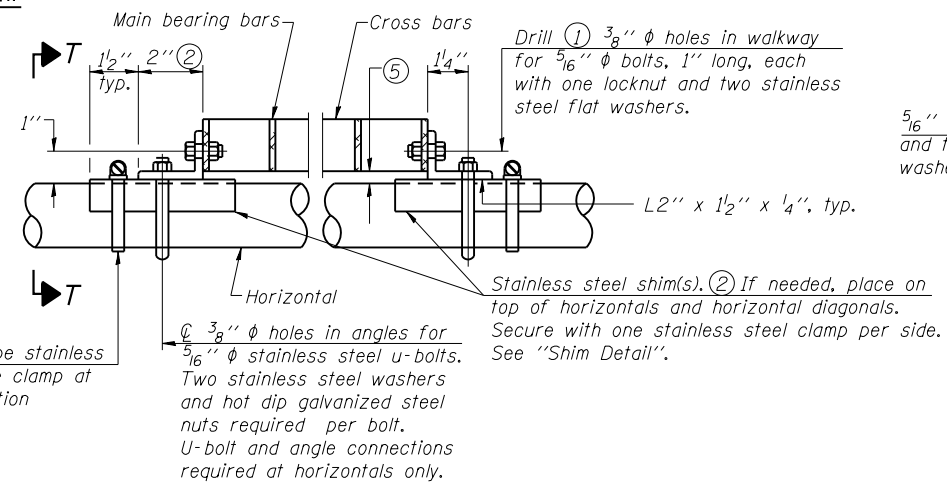
END VIEW

SHIM DETAIL



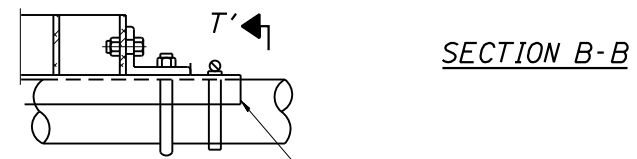
SECTION T-T

SECTION T'-T'



DETAIL T

(Continuous Truss grating)



SECTION B-B

DETAIL T'

(Truss grating splice)

Details not shown same as Detail T. Alternate materials may be used subject to the Engineer's review and approval.

**SPECIFICATIONS FOR STANDARD ALUMINUM GRATING**

Main Bearing Bars shall be 3/16" x 1 1/2" on 1 3/16" centers and conform to ASTM B221 Alloy 6061-T6.  
Cross bars 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 "H" 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.<sup>3</sup> per bar, a depth of 1 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.

Structure Number	Location	A	⑥ B	C	⑥ D
ISO16SI71L000.0-000	A	7 1/2"	-	7'-0"	-
ISO16I055L282.6-000	G	7 1/2"	-	7'-0"	-
ISO16I080R150.5-000	J	5 1/2"	-	4'-6"	-
ISO16I080L149.2-000	K	7 1/2"	-	7'-0"	-
ISO16I080L152.1-000	L	7 1/2"	-	7'-0"	-
ISO16I094R072.7-000	U	7 1/2"	-	7'-0"	-
ISO16I094L071.5-000	V	7 1/2"	-	7'-0"	-
ISO16I094L064.3-000	2	5 1/2"	-	4'-6"	-
ISO16I094L063.8-000	3	5 1/2"	-	4'-6"	-
ISO16I094R064.2-000	4	5 1/2"	-	4'-6"	-
ISO16I094L031.6-000	21	5 1/2"	-	4'-6"	-
ISO16I094L030.8-000	22	5 1/2"	-	4'-6"	-

- 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.
- 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.
- It is the contractor's responsibility to verify/calculate all the measurements & elevations in the field prior to fabrication, and ensure they are compliant with IDOT Standards.

OS-A-10

6-1-12

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	DATE - 11/03/17	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES  
ALUMINUM WALKWAY DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35		COOK	79	21
CONTRACT NO. 46473				
ILLINOIS FED. AID PROJECT				

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**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 ( $Q_u$ ) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

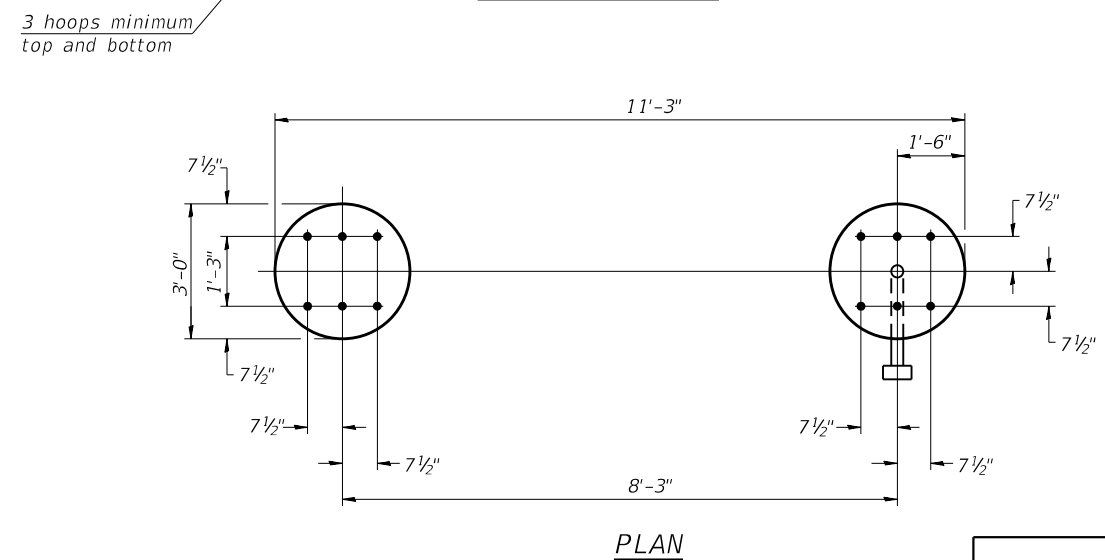
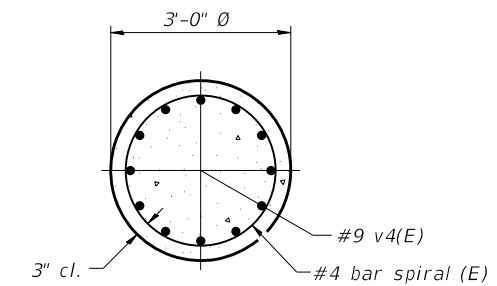
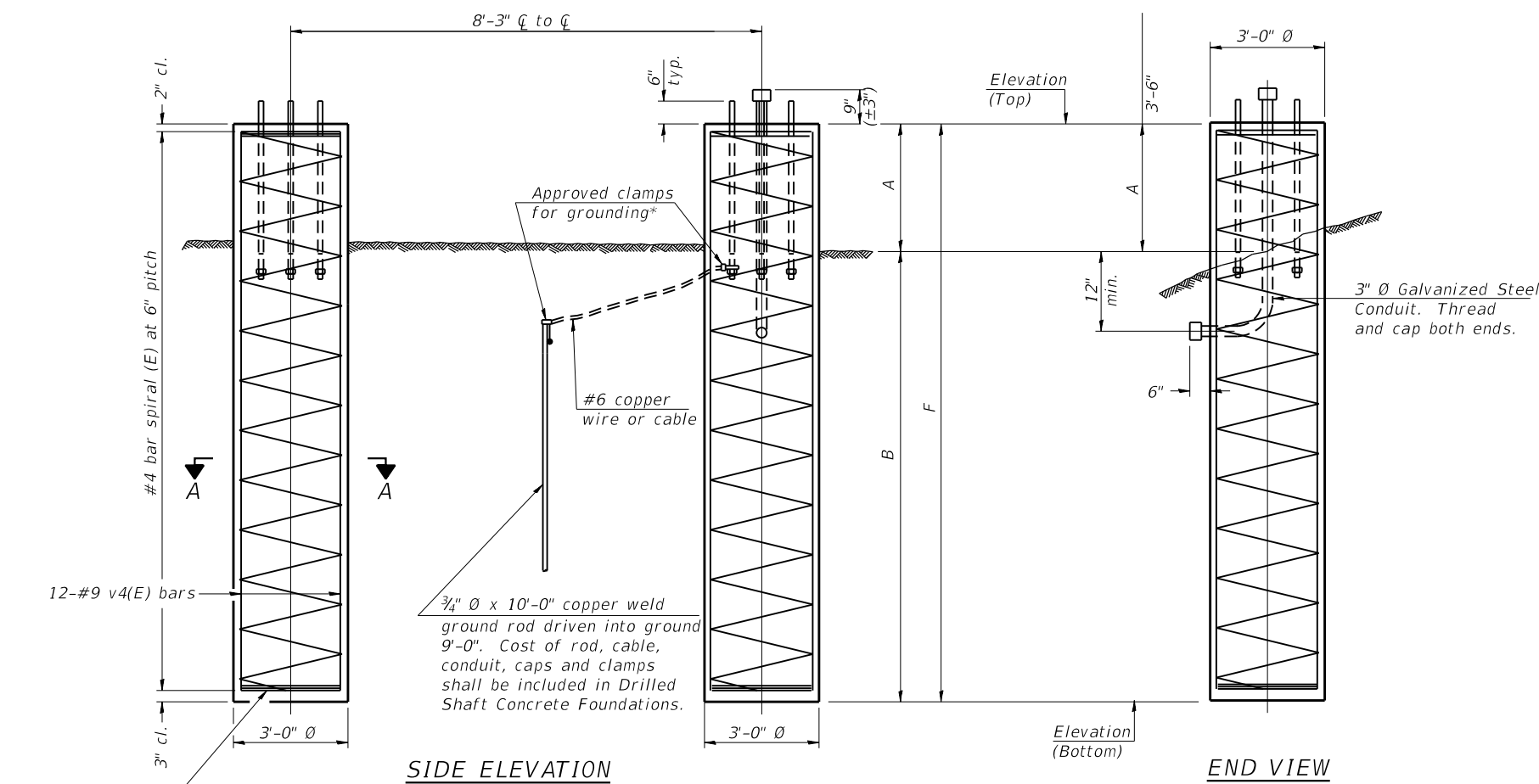
If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District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

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

Concrete shall be placed monolithically, without construction joints.

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

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



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

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

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

Structure Number	Location	Left Foundation					Right Foundation					Class DS Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	A	B	F	Elevation Top	Elevation Bottom	A	B	F	
ISO161094L063.8-000	3	585.37	565.37	3'-6"	16'-6"	20'-0"	585.50	565.50	3'-6"	16'-6"	20'-0"	21.0
ISO161094R064.2-000	4	570.77	550.77	3'-6"	16'-6"	20'-0"	571.20	551.20	3'-6"	16'-6"	20'-0"	21.0
ISO161094L031.6-000	21						630.17	610.17	3'-6"	16'-6"	20'-0"	10.5

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES  
DRILLED SHAFT DETAILS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35	COOK	79	21A	
CONTRACT NO. 46473				
ILLINOIS FED. AID PROJECT				

**BAR LIST - EACH FOUNDATION**

Bar	Number	Size	Length	Shape
v4(E)	16	#9	F less 5"	—
#4 bar spiral (E) - see Side Elevation				

**NOTES:**

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

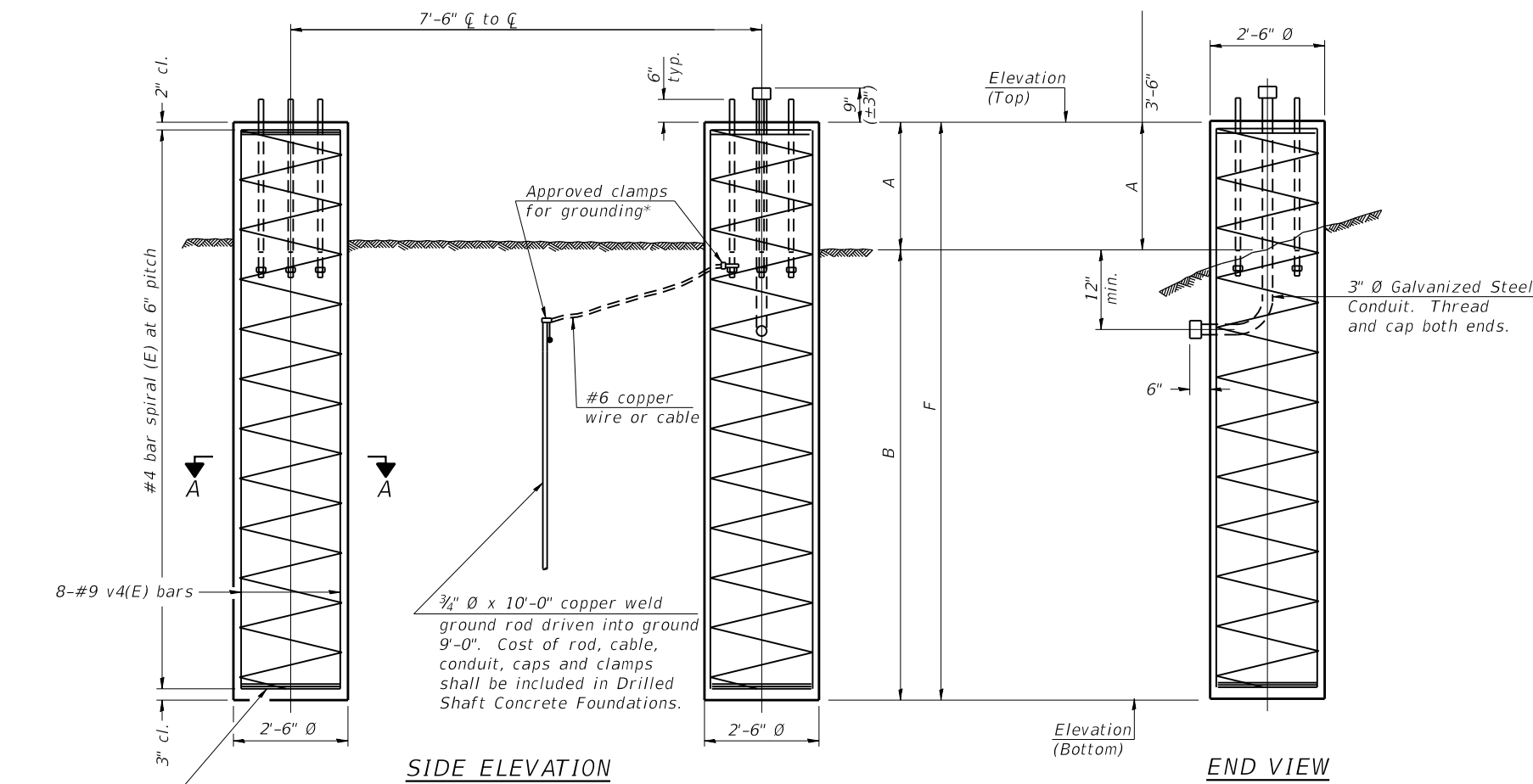
If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District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

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

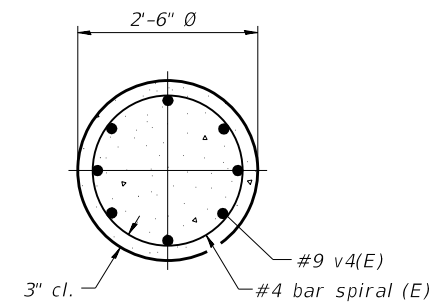
Concrete shall be placed monolithically, without construction joints.

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

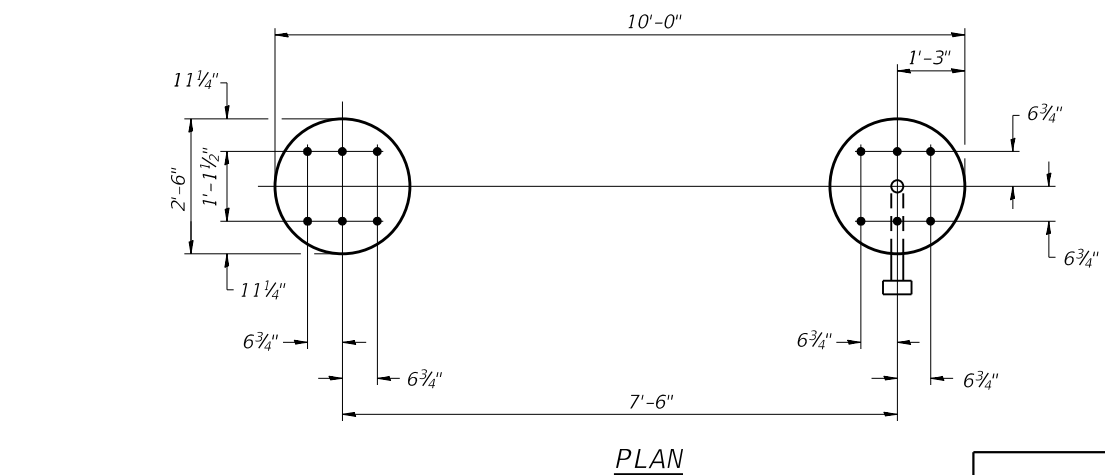
A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.



3 hoops minimum top and bottom



**SECTION A-A**



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 8" Ø SUPPORT FRAME TYPE I-A TRUSS**

① Low strength cohesive soil and/or granular soil encountered. They have the potential to squeeze or slough into the shaft excavation. Wet method (516.06b), temporary casing method (516.06c) or a combination of the two may be necessary.

Structure Number	Location	Elevation Top	Elevation Bottom	Left Foundation			Right Foundation			Class DS Concrete (Cu. Yds.)		
				A	B	F	Elevation Top	Elevation Bottom	A		B	F
ISO161080R150.5-000	J (1)	700.34	683.34	3'-6"	13'-6"	17'-0"	700.22	683.22	3'-6"	13'-6"	17'-0"	24.2
ISO161094L064.3-000	2	578.62	560.62	3'-6"	14'-6"	18'-0"	578.80	560.80	3'-6"	14'-6"	18'-0"	25.6
ISO161094L063.8-000	3	585.37	585.28	3'-6"	14'-6"	18'-0"	585.50	584.97	3'-6"	14'-6"	18'-0"	25.6
ISO161094R064.2-000	4	570.77	569.87	3'-6"	14'-6"	18'-0"	571.20	568.98	3'-6"	14'-6"	18'-0"	25.6
ISO161094L031.6-000	21	631.60	629.45	3'-6"	10'-0"	13'-6"	630.17	627.44	3'-6"	10'-0"	13'-6"	19.2
ISO161094L030.8-000	22	632.73	630.28	3'-6"	14'-6"	20'-0"	628.28	626.95	3'-6"	14'-6"	20'-0"	20.6

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PLOT SCALE = 100.0000' / in.	DATE - 11/03/17	REVISED -
PLOT DATE = 10/22/2018		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES  
DRILLED SHAFT DETAILS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35		COOK	79	22
CONTRACT NO. 46473				
ILLINOIS / FED. AID PROJECT				



**BAR LIST - EACH FOUNDATION**

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

**NOTES:**

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

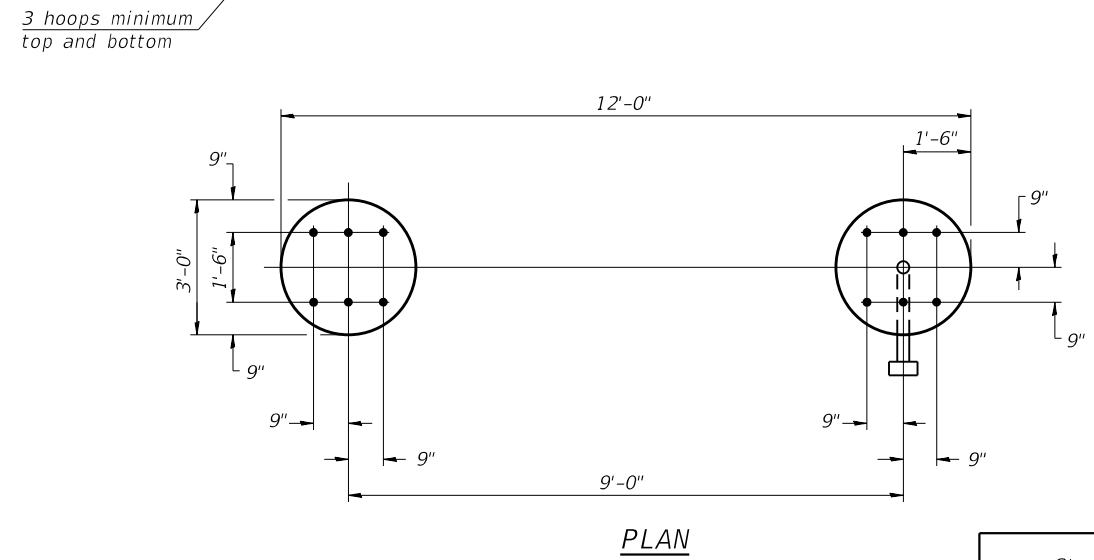
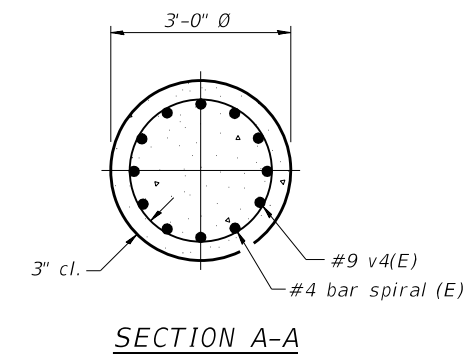
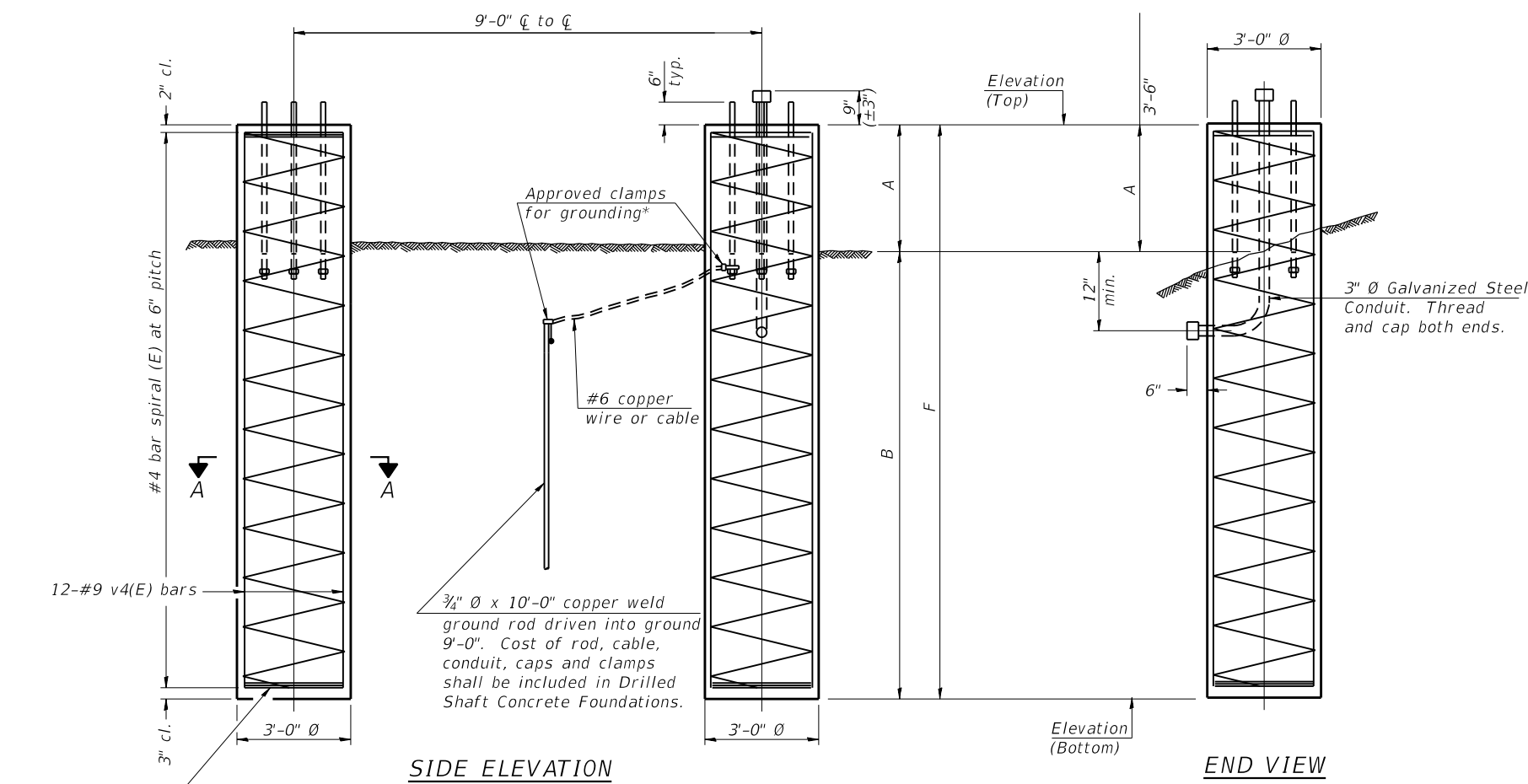
If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District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

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

Concrete shall be placed monolithically, without construction joints.

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

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



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

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

**DETAILS FOR 12" Ø SUPPORT FRAME TYPE III-A TRUSS**

① Low strength cohesive soil and/or granular soil encountered. They have the potential to squeeze or slough into the shaft excavation. Wet method (516.06b), temporary casing method (516.06c) or a combination of the two may be necessary.

Structure Number	Location	Left Foundation			Right Foundation			Class DS Concrete (Cu. Yds.)				
		Elevation Top	Elevation Bottom	A	B	F	Elevation Top		Elevation Bottom	A	B	F
ISO16S171L000.0-000	A (J)	631.36	609.86	3'-6"	18'-0"	21'-6"	631.28	609.78	3'-6"	18'-0"	21'-6"	30.6
ISO16I080L149.2-000	K (J)	702.62	681.12	3'-6"	18'-0"	21'-6"	702.36	680.86	3'-6"	18'-0"	21'-6"	30.6
ISO16I055L282.6-000	G (J)	616.44	594.94	3'-6"	18'-0"	21'-6"	613.82	592.32	3'-6"	18'-0"	21'-6"	30.6
ISO16I094R072.7-000	U (J)	600.70	565.20	3'-6"	32'-0"	35'-6"	600.88	565.38	3'-6"	32'-0"	35'-6"	50.7
ISO16I080L152.1-000	L	692.10	670.60	3'-6"	18'-0"	21'-6"	692.37	670.87	3'-6"	18'-0"	21'-6"	30.6
ISO16I094L030.8-000	22			3'-6"	18'-0"	21'-6"	628.28	606.78	3'-6"	18'-0"	21'-6"	15.3

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2-17-2017

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PLOT DATE = 10/22/2018	CHECKED - HM	REVISIONS -
	DATE - 11/03/17	REVISIONS -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES  
DRILLED SHAFT DETAILS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35		COOK	79	23
CONTRACT NO. 46473				
ILLINOIS / FED. AID PROJECT				

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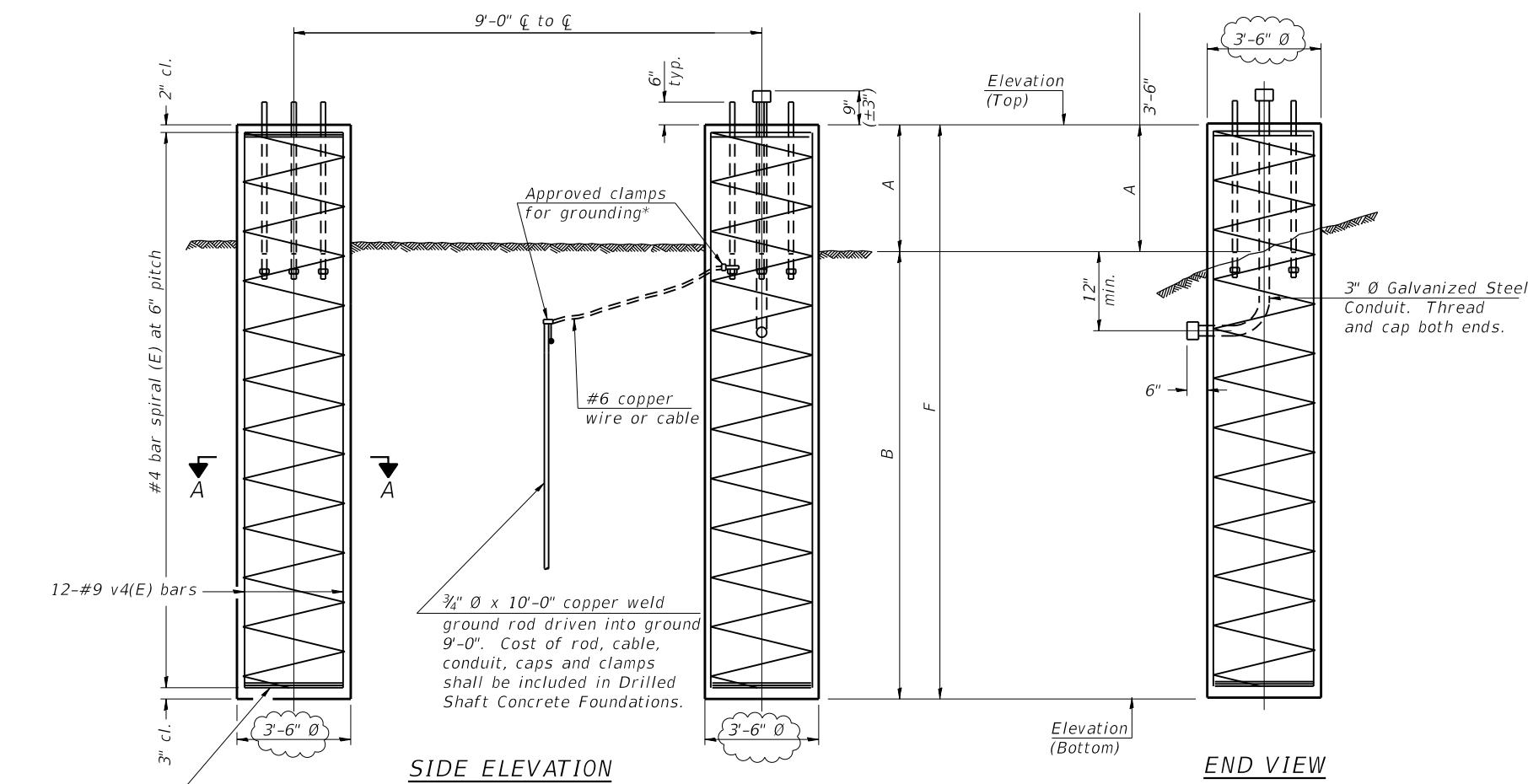
**BAR LIST - EACH FOUNDATION**

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

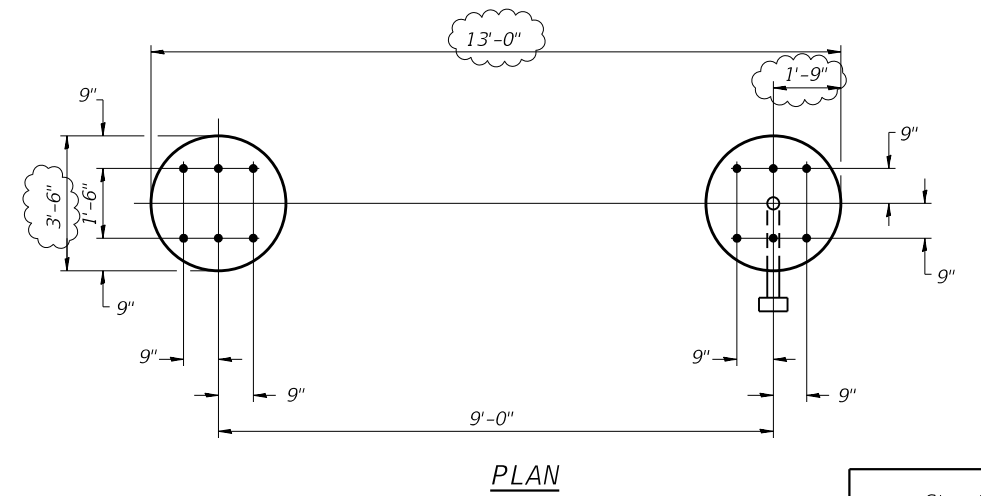
**NOTES:**

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.

The foundations dimensions shown are based on custom design as warranted by site conditions. The contractor is encouraged to review the boring logs, evaluate the soil conditions and determine the appropriate means and methods in accordance with section 516 in the Standard Specifications.

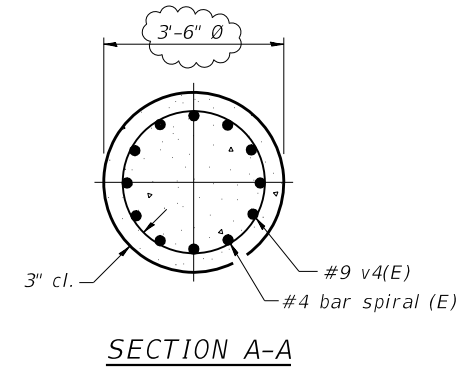


3 hoops minimum top and bottom



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 12" Ø SUPPORT FRAME  
TYPE III-A TRUSS - SPECIAL**

① Low strength cohesive soil and/or granular soil encountered. They have the potential to squeeze or slough into the shaft excavation. Wet method (516.06b), temporary casing method (516.06c) or a combination of the two may be necessary.

Structure Number	Location	Left Foundation			Right Foundation			Class DS Concrete (Cu. Yds.)				
		Elevation Top	Elevation Bottom	A	B	F	Elevation Top		Elevation Bottom	A	B	F
ISO161094L071.5-000	V (1)	599.20	579.70	3'-6"	16'-0"	19'-6"	600.40	580.90	3'-6"	16'-0"	19'-6"	27.7

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054-F4

2-17-2017

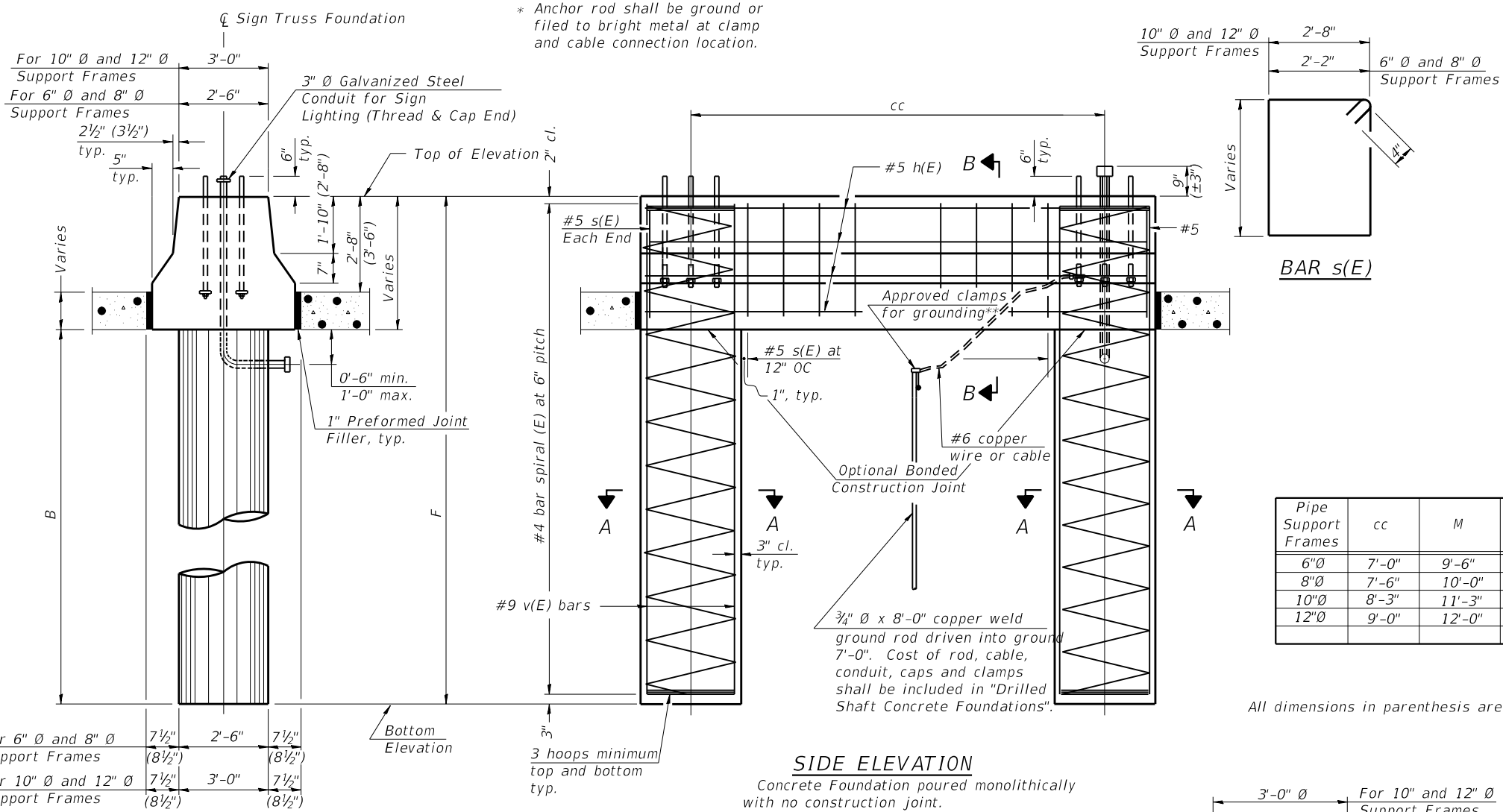
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PLOT SCALE = 100.0000' / in.	DRAWN - BAS / LP	REVISED -
PLOT DATE = 10/22/2018	CHECKED - HM	REVISED -
	DATE - 11/03/17	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES  
DRILLED SHAFT DETAILS - SPECIAL**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35		COOK	79	24
CONTRACT NO. 46473				
ILLINOIS FED. AID PROJECT				



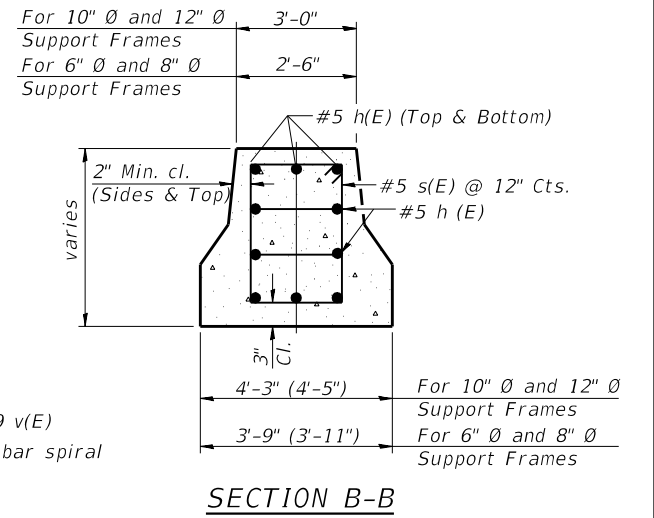
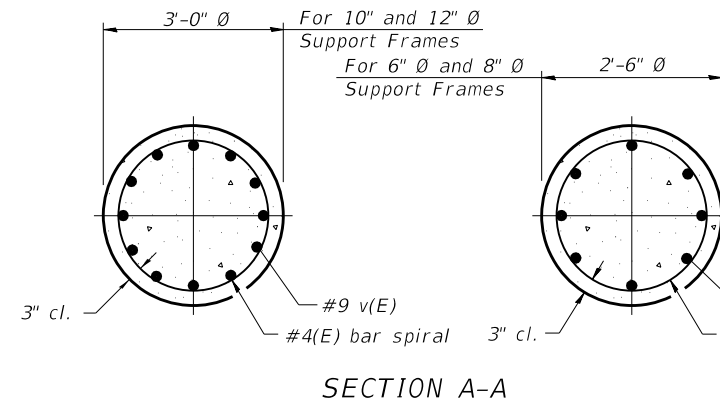
**NOTES:**  
 The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength ( $Q_u$ ) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data 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.

**BAR LIST - EACH FOUNDATION**

Pipe Support Frames	cc	M	a	a/2
6"Ø	7'-0"	9'-6"	0'-11"	5 1/2"
8"Ø	7'-6"	10'-0"	1'-1 1/2"	6 3/4"
10"Ø	8'-3"	11'-3"	1'-3"	7 1/2"
12"Ø	9'-0"	12'-0"	1'-6"	9"

Bar	Number	Size	Length	Shape
h(E)	10	#5	M less 4"	—
s(E)	Varies	#5	Varies	□
v(E)	16	#9	F less 0'-5"	—
v(E)	24	#9	F less 0'-5"	—
#4(E) bar spiral see Side Elevation				

All dimensions in parenthesis are for 42" high barrier.



Structure Number	Station	Left Foundation				Right Foundation				Class DS Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	B	F	Elevation Top	Elevation Bottom	B	F	
ISO161094L031.6-000	21	631.60	611.60	16'-6"	20'-0"					13.9
ISO161094L030.8-000	22	632.73	611.23	18'-0"	21'-6"					15.1

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DRAWN - BAS / LP	CHECKED - HM	REVISID -
PLOT SCALE = 100.0000' / in.	DATE - 08/07/18	REVISID -
PLOT DATE = 10/22/2018		

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES  
 MEDIAN SUPPORT FOUNDATION DETAILS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL	18-35	COOK	79	25
CONTRACT NO. 46473				
ILLINOIS FED. AID PROJECT				

**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)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 ground line at each foundation shall be cleaned and coated with Concrete Sealer in accordance with the Standard Specifications.

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

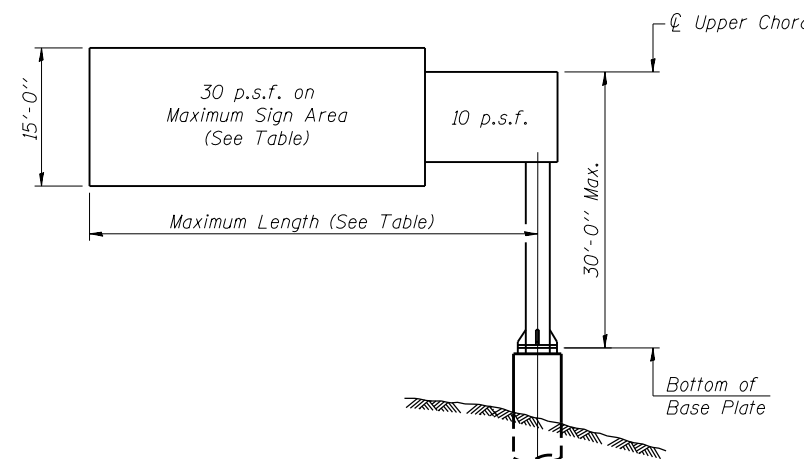
FOUNDATIONS: The contract unit price for Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE I-C-A	Foot	0
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE II-C-A	Foot	0
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE III-C-A	Foot	276
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	Foot	0
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	88.9

Structure Number	Location	Design Truss Type	Cantilever Length (L)	Elev. A	Dim. D	D <sub>s</sub>	Total Sign Area
IC0161094R000.0-000	0	III-C-A	36'-0"	602.25	17'-9"	7'-6"	112.5
IC0161290L023.5-000	S	III-C-A	40'-0"	623.81	15'-4"	11'-0"	165.0
IC0161290L023.3-000	T	III-C-A	40'-0"	616.26	15'-4"	11'-0"	165.0
IC0161290R001.0-000	13	III-C-A	40'-0"	739.92	16'-9"	10'-0"	175.0
IC016S043R000.0-001	18	III-C-A	40'-0"	602.90	10'-6"	10'-0"	145.0
IC016S043R000.0-002	19	III-C-A	40'-0"	629.96	10'-0"	10'-0"	145.0
IC016S043R000.0-000	20	III-C-A	40'-0"	602.17	12'-0"	10'-0"	145.0

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:

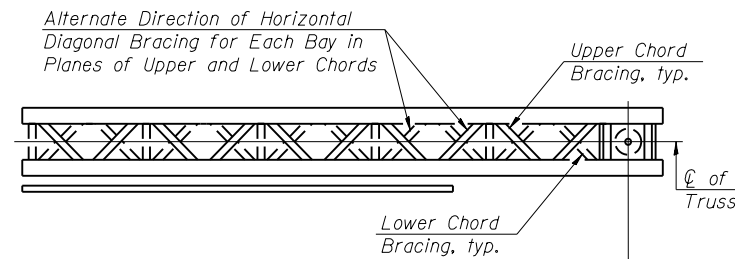
- ① Trusses shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The contractor is responsible for maintaining the configuration and protection of the trusses.

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.

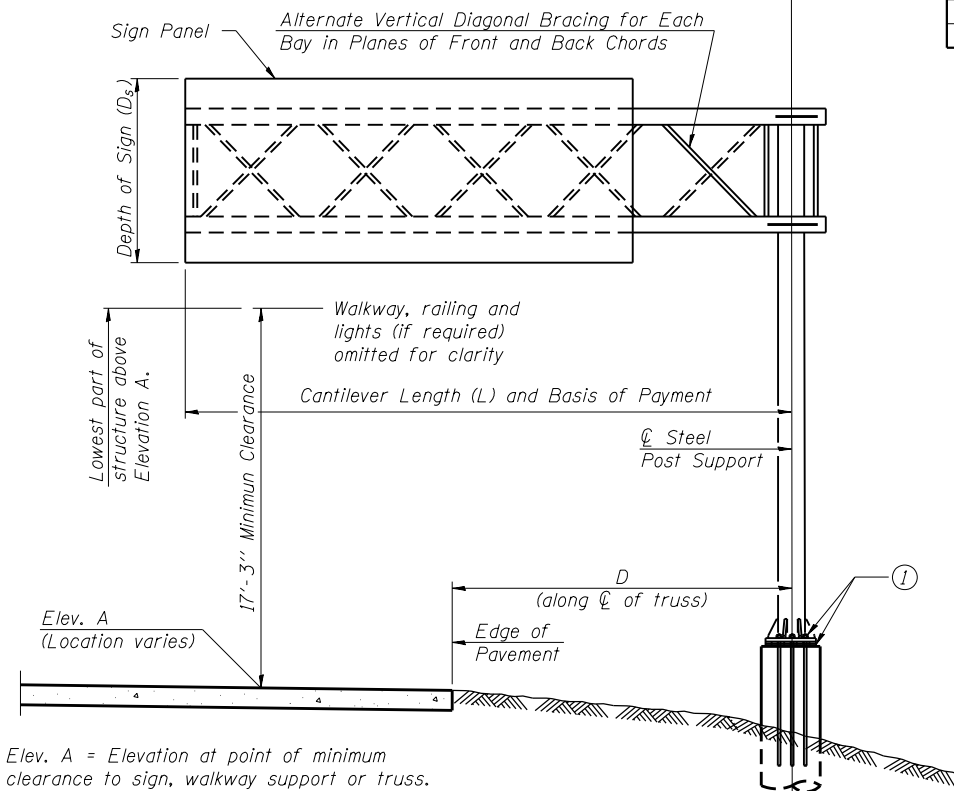
- ② The contractor shall ensure a minimum vertical clearance of 17'-3" above the roadway crown is obtained. The top of the concrete foundation shall be a minimum of 2'-6" above grade. In the event guardrail is to be attached to the foundation, the top of the foundation shall exceed the height of the guardrail attachment.

\* 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.

- ③ It is the contractors responsibility to verify/calculate all the measurements in the field prior to fabrication, and ensure they are compliant with IDOT Standards



**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.

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8-21-13

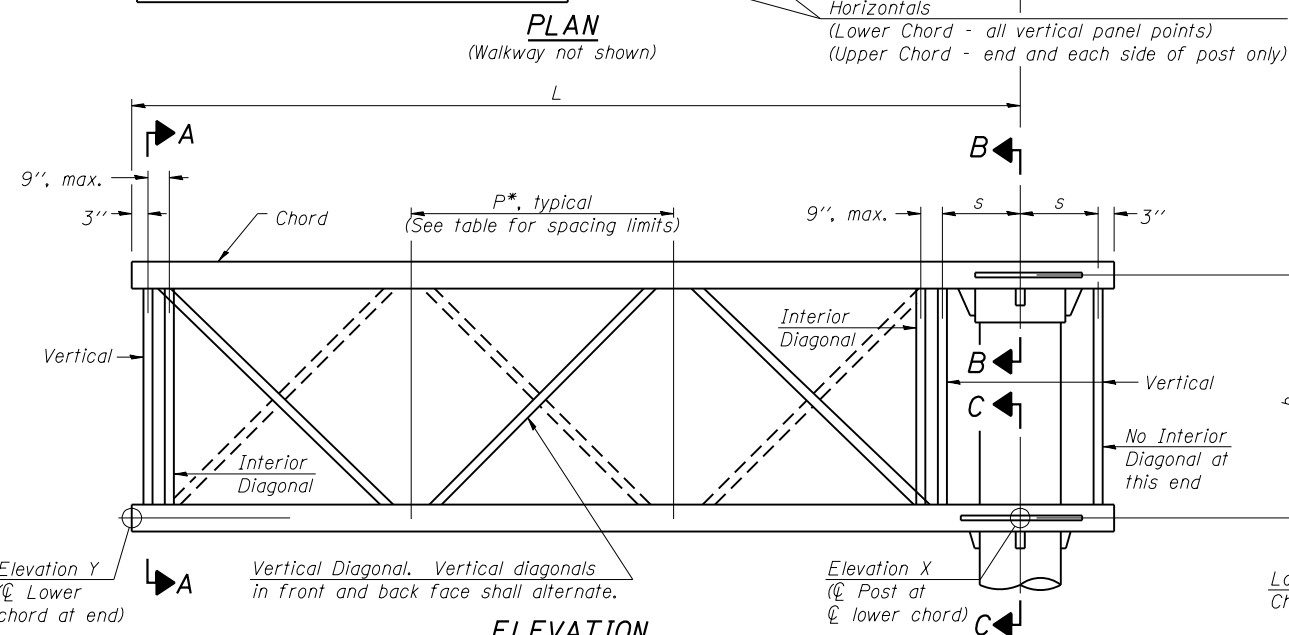
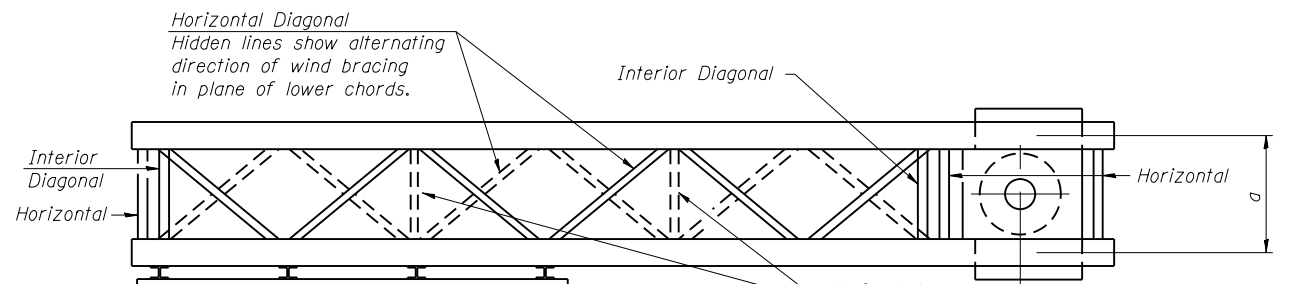
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	DATE - 11/03/17	REVISOR -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL	18-35	COOK	79	26
CONTRACT NO. 46473				
ILLINOIS FED. AID PROJECT				



TYPICAL TRUSS UNIT  
(Sign and walkway omitted for clarity)

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

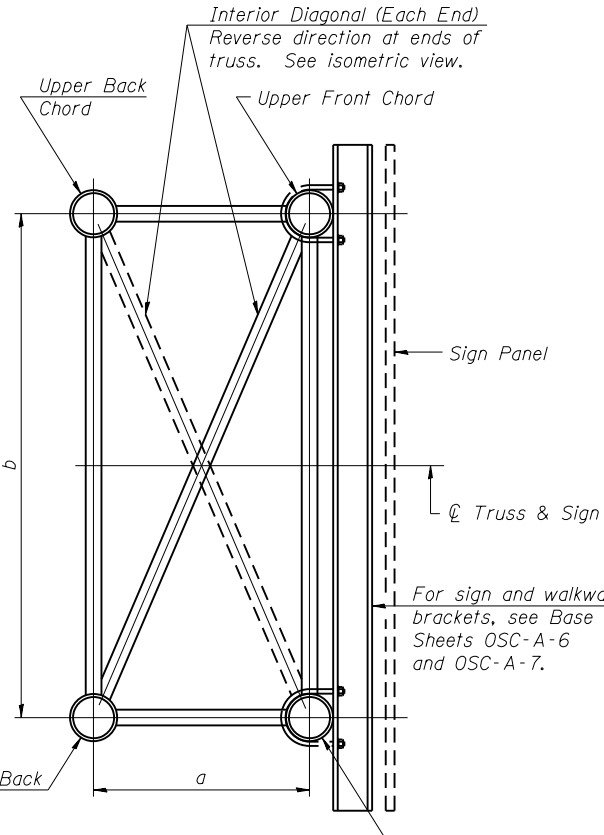
There are twice as many horizontal diagonals as there are vertical diagonals.

TRUSS UNIT TABLE

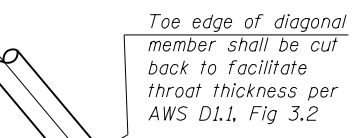
Truss Type	Dimension "a"	Dimension "b"	Dimension "s"	Limits for Panel Spacing (P)*	Up. & Low. Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals	
					O.D.	Wall	O.D.	Wall
I-C-A	24"	54"	16"	36" min. to 48" max.	5"	5/16"	2 1/2"	5/16"
II-C-A	36"	66"	21"	42" min. to 54" max.	6 1/2"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

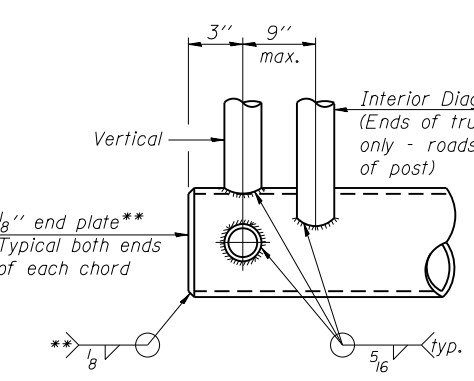
Structure Number	Location	Truss Type	Design Length (L)	Number of Panels Per Unit	Panel Length (P)*
IC016I094R000.0-000	0	III-C-A	36'-0"	8	4'-3"
IC016I290L023.5-000	S	III-C-A	40'-0"	8	4'-9"
IC016I290L023.3-000	T	III-C-A	40'-0"	8	4'-9"
IC016I290R001.0-000	13	III-C-A	40'-0"	8	4'-9"
IC016S043R000.0-001	18	III-C-A	40'-0"	8	4'-9"
IC016S043R000.0-002	19	III-C-A	40'-0"	8	4'-9"
IC016S043R000.0-000	20	III-C-A	40'-0"	8	4'-9"



SECTION A-A

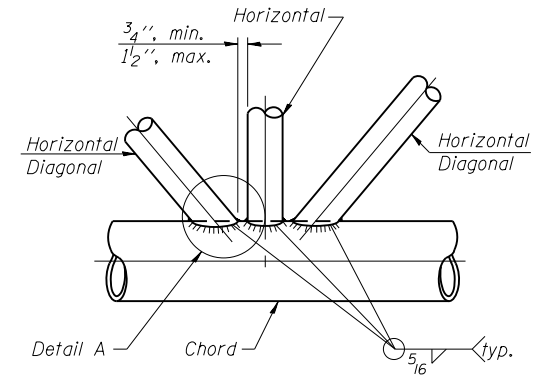


DETAIL A

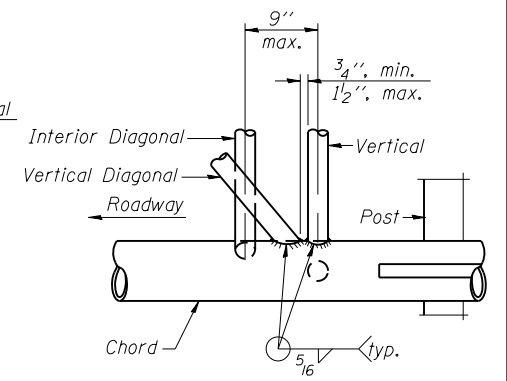


CANTILEVER END JOINT DETAIL

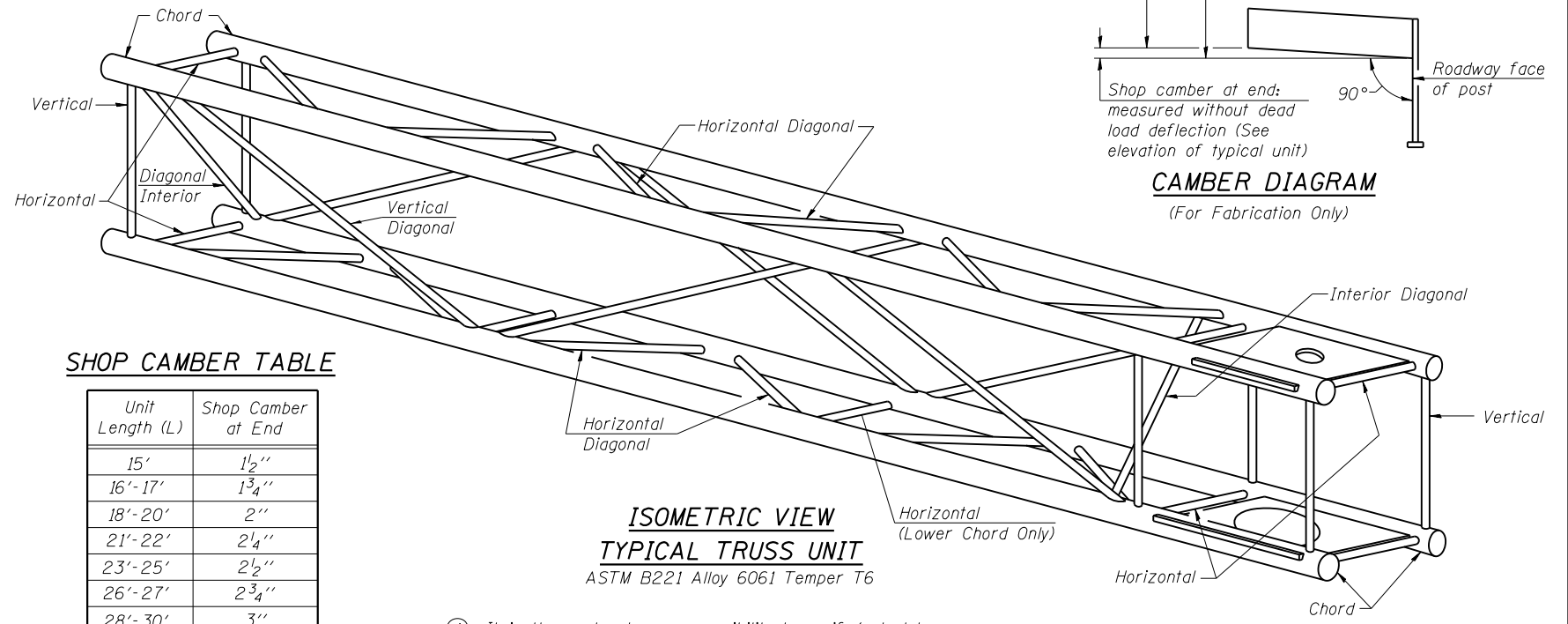
\*\* Contractor may alternatively use standard aluminum drive-fit cap to close ends. 1/2"  $\phi$  Drain hole in end plate / drive-fit cap.



TRUSS INTERIOR JOINT DETAIL



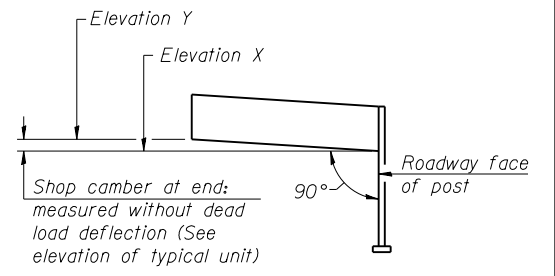
POST END JOINT DETAIL



ISOMETRIC VIEW  
TYPICAL TRUSS UNIT

ASTM B221 Alloy 6061 Temper T6

It is the contractor's responsibility to verify/calculate all the measurements & elevations in the field prior to fabrication, and ensure they are compliant with IDOT Standards.



CAMBER DIAGRAM  
(For Fabrication Only)

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

6-1-12

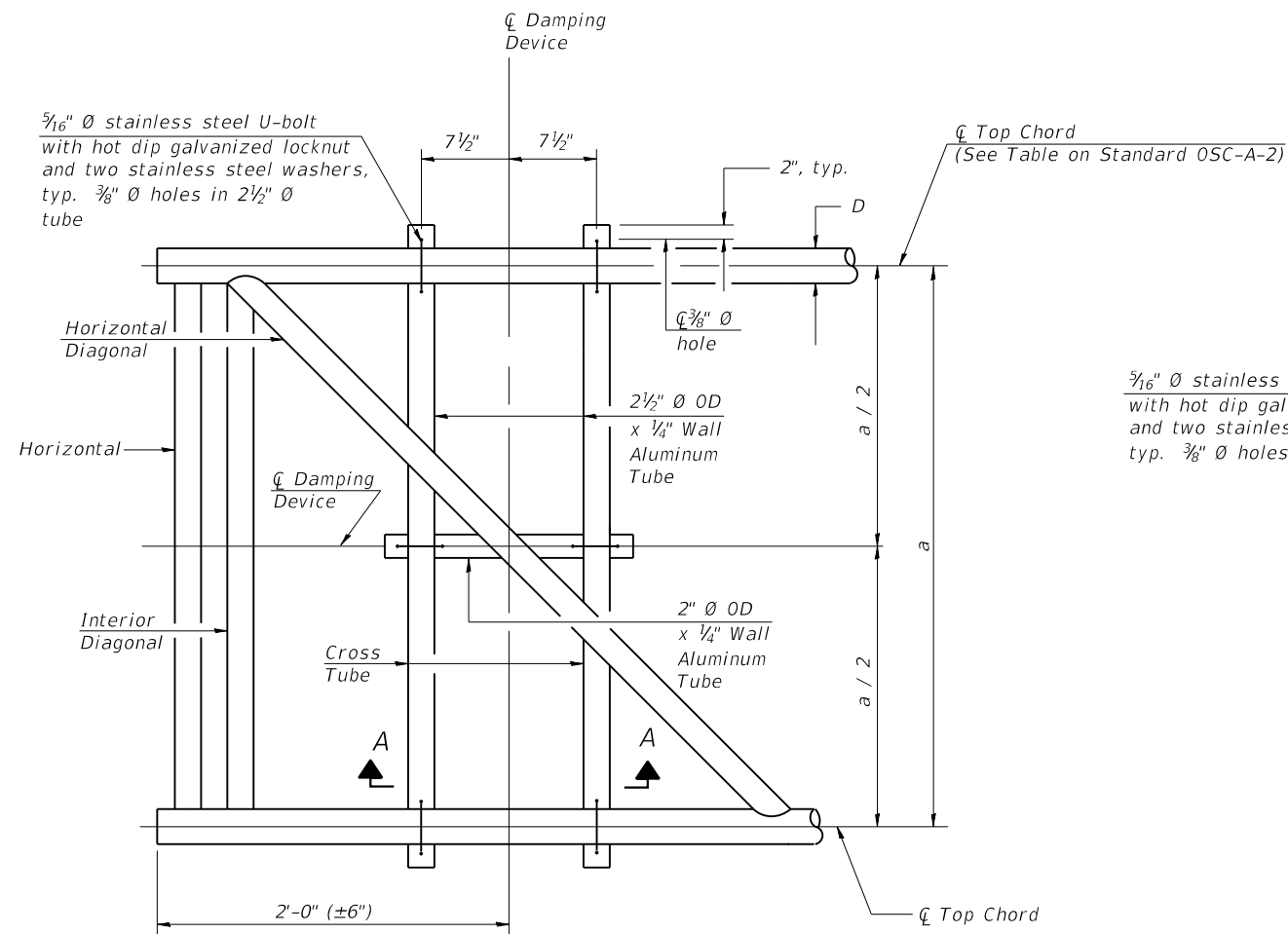
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	DATE - 11/03/17	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

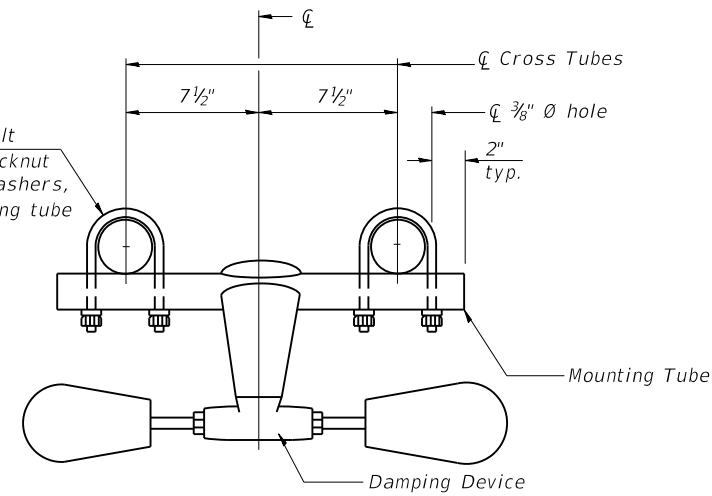
CANTILEVER SIGN STRUCTURES - TRUSS DETAILS  
ALUMINUM TRUSS & STEEL POST

SCALE: SHEET OF SHEETS STA. TO STA.

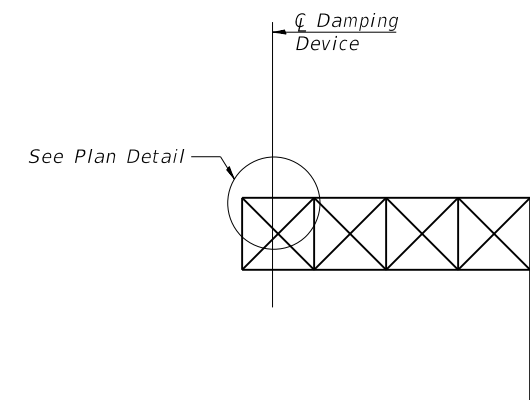
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35		COOK	79	27
CONTRACT NO. 46473				
ILLINOIS FED. AID PROJECT				



**PLAN DETAIL**



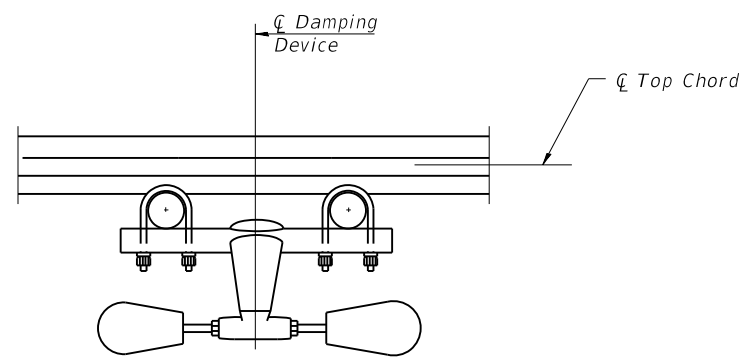
**TRUSS DAMPING DEVICE CONNECTION DETAIL**



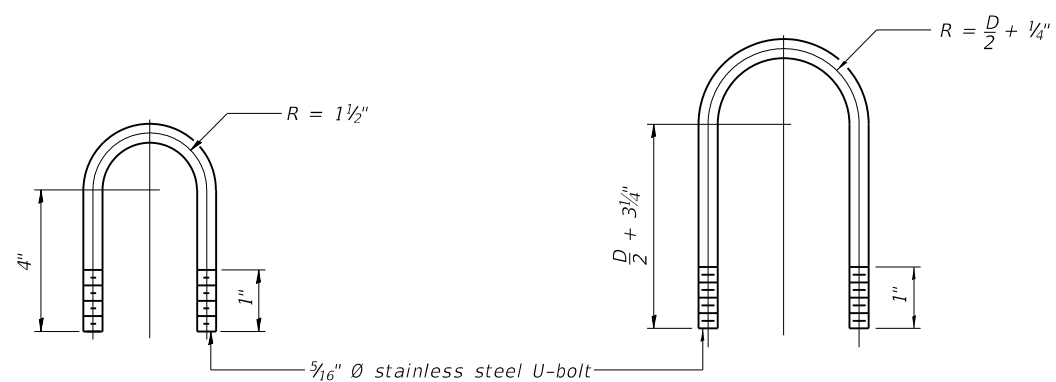
**ELEVATION**  
Aluminum Cantilever Sign Structure

**GENERAL NOTES**

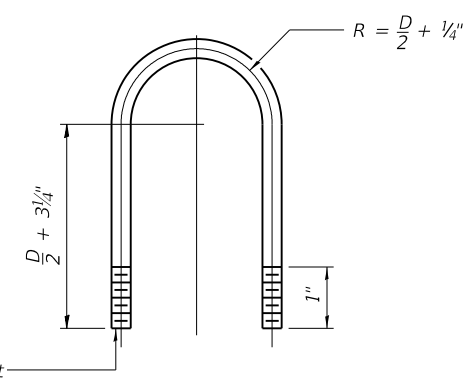
- Damper: One damper per truss. (31 lbs. Stockbridge-Type Aluminum-29" minimum between ends of weights)
- Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6



**SECTION A-A**



**DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL**  
(Typical)



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

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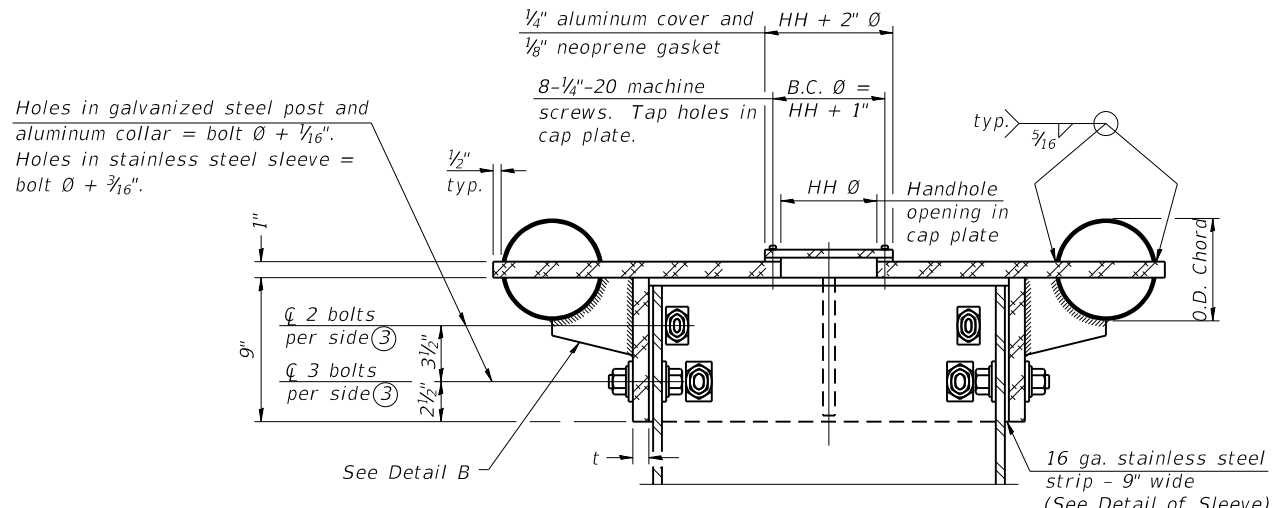
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

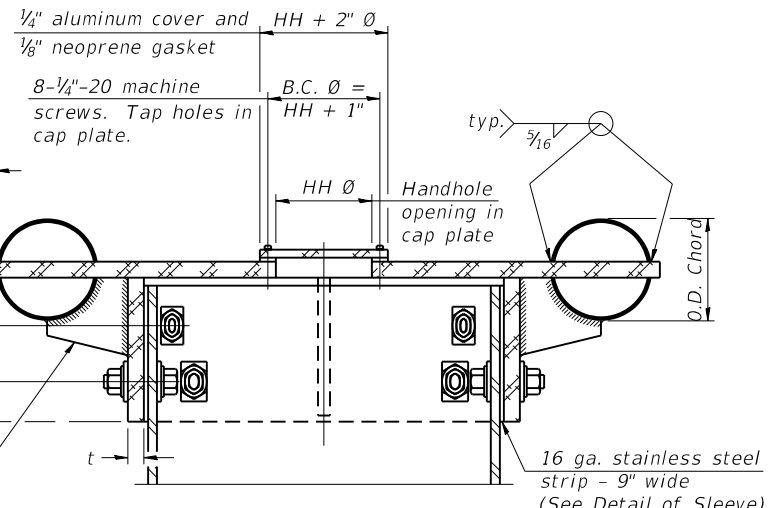
**CANTILEVER SIGN STRUCTURE  
DAMPING DEVICE**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35		COOK	79	28
CONTRACT NO. 46473				
ILLINOIS FED. AID PROJECT				

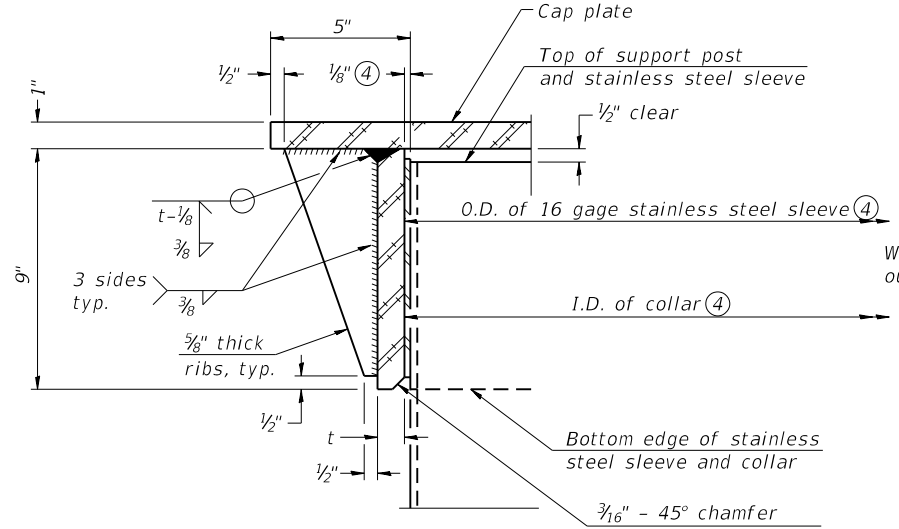


Holes in galvanized steel post and aluminum collar = bolt  $\varnothing + 1/16"$ .  
 Holes in stainless steel sleeve = bolt  $\varnothing + 3/16"$ .

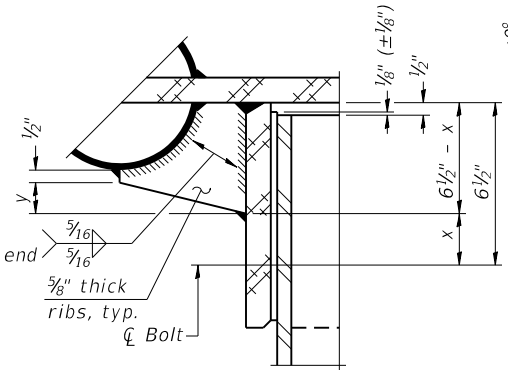


**SECTION B-B**  
 Bolts, washers (including contoured washers), and locknuts shall be stainless steel.

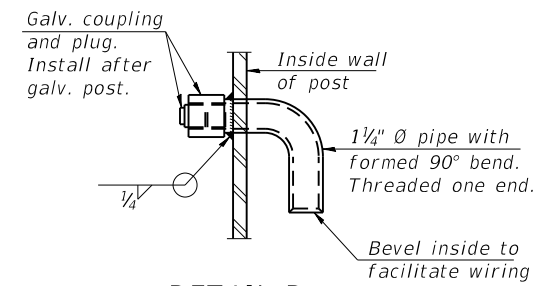
④ Collar I.D. shall be manufactured to correspond to O.D. of actual galvanized post and stainless steel sleeve plus  $1/8"$  ( $\pm 1/16"$ ). Maximum gap between post and collar at any location equals  $1/8"$  before tightening bolts.



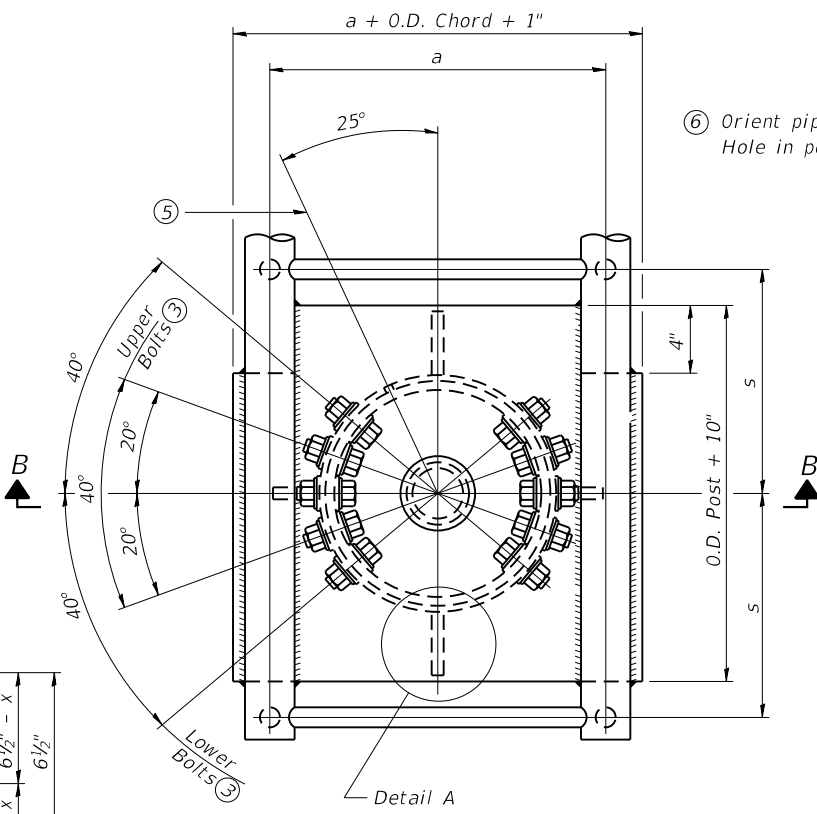
**DETAIL A**  
 (Two locations)  
 3/16" - 45° chamfer on inside of collar to facilitate field assembly



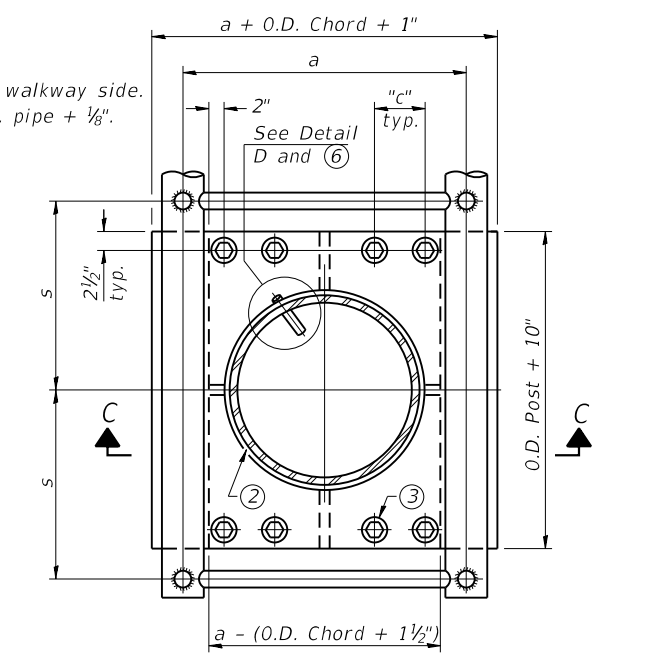
**DETAIL B**  
 Two locations  
 (For details not shown, see Detail C)



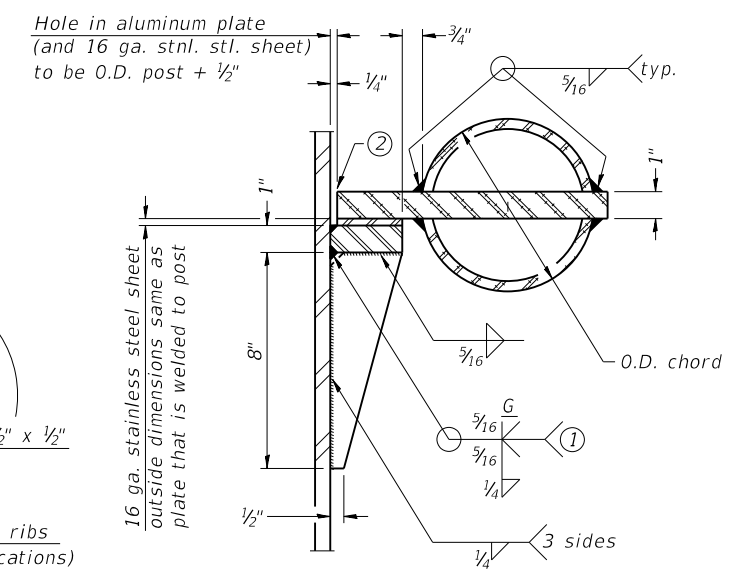
**DETAIL D**



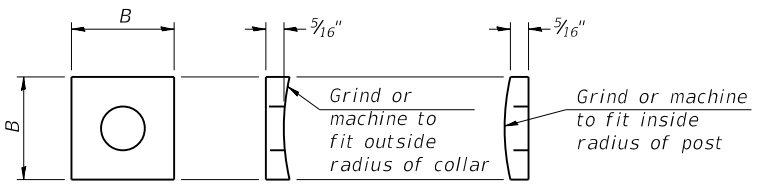
**PLAN VIEW - TOP OF COLUMN**  
 ⑤ Optional full penetration weld in collar. (Two locations maximum....(180° apart)....X-ray or UT 100%)



**SECTION THRU POST ABOVE LOWER CHORDS**



**DETAIL C**



**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 1/2 inch long at 6 inch cts. along top edge and at 1/4 inch opening.

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" $\varnothing$ (83#/'')	7/8"	3 1/4"	8"	5/8"	1 3/4"	2 1/4"
II-C-A	24" $\varnothing$ (125#/'')	1"	3 1/2"	12"	7/8"	2"	1 1/4"
III-C-A (35' max.)	24" $\varnothing$ (125#/'')	1 1/4"	3 1/2"	12"	7/8"	2"	1"
III-C-A (>35' to 40')	24" $\varnothing$ (171#/'')	1 1/4"	3 1/2"	12"	7/8"	2"	1"

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

OSC-A-3

2-17-2017

USER NAME = pocielchal	DESIGNED - BR / MDM	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN - BAS / LP	REVISED -
PLOT DATE = 8/16/2018	CHECKED - HM	REVISED -
	DATE - 11/03/17	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - JUNCTURE DETAILS  
 ALUMINUM TRUSS & STEEL POST

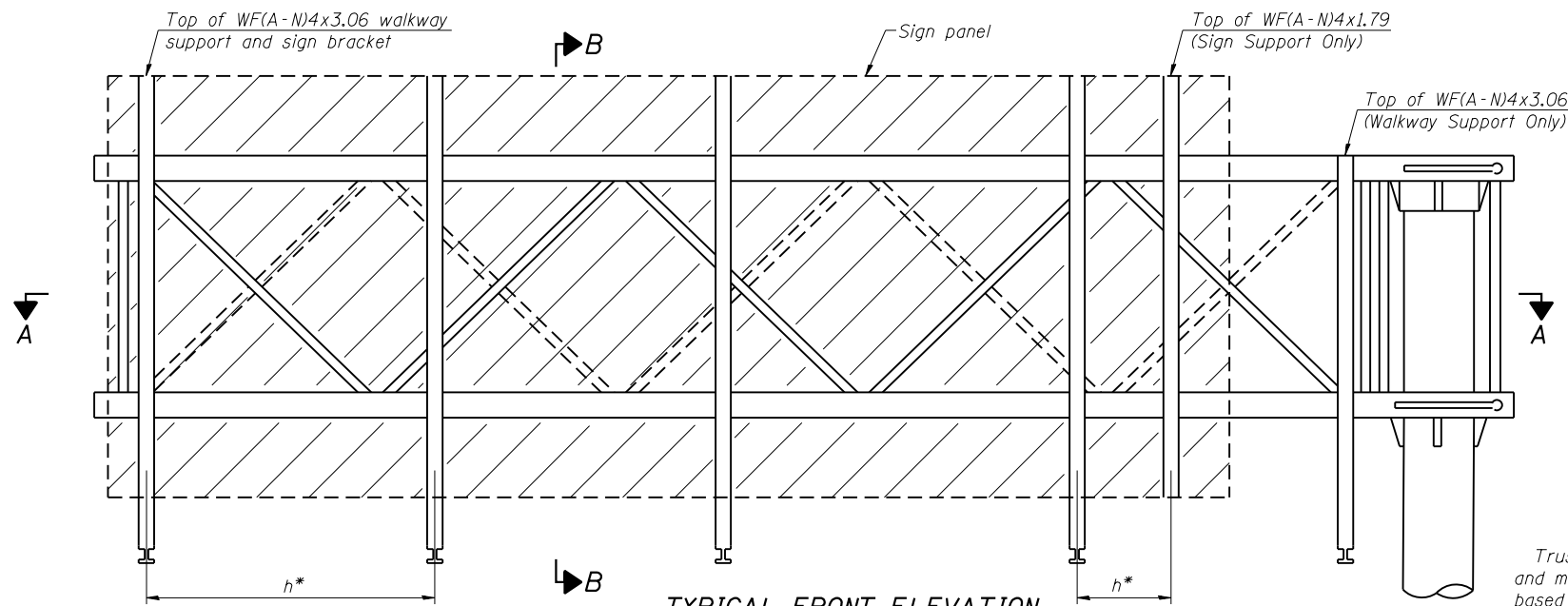
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35		COOK	79	29
CONTRACT NO. 46473				
ILLINOIS FED. AID PROJECT				

MODEL: Default  
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 PLOT DATE: 8/16/2018 10:00:00 AM  
 PLOT SCALE: 100.0000' / in.  
 PLOT SHEET: 29 OF 79  
 PLOT DATE: 8/16/2018

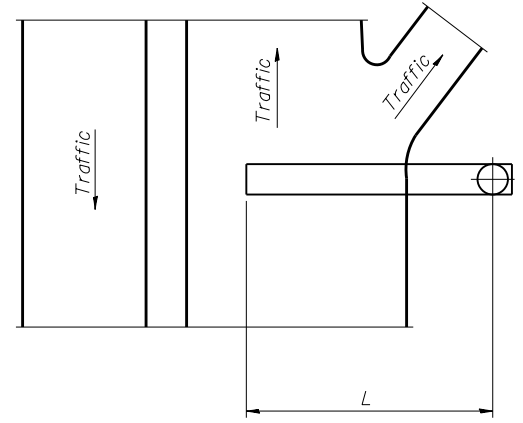




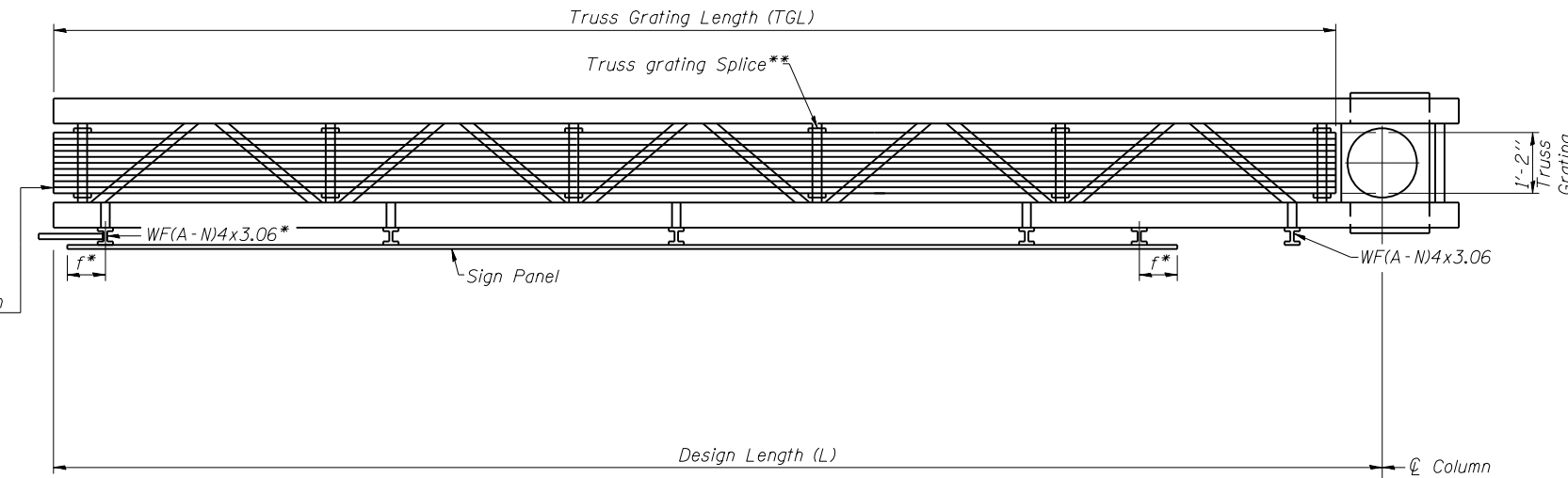


**TYPICAL FRONT ELEVATION**  
With lights and handrail omitted for clarity.

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



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



**SECTION A-A**

Truss grating to facilitate inspection shall run full length of cantilevers. Cost of truss grating is included in Overhead Sign Structure Cantilever. External walkway and light fixture supports will not be required.

\*\* Use and location of handrail joints or grating splices are optional, based on lengths needed and material availability.

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

Structure Number	Location	WGL	ED	TGL (1)
IC0161094R000.0-000	0	-	-	34'-3"
IC0161290L023.5-000	S	-	-	38'-3"
IC0161290L023.3-000	T	-	-	38'-3"
IC0161290R001.0-000	13	-	-	38'-3"
IC016S043R000.0-001	18	-	-	38'-3"
IC016S043R000.0-002	19	-	-	38'-3"
IC016S043R000.0-000	20	-	-	38'-3"

- 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)
  - h = 6'-0" maximum (center to center sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)
  - 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.
- (1) Survey elevations and distances are not available for this location. The contractor is responsible to adjust TGL according to actual cantilever length.

MODEL: Default FILE: \\nas01c.psu.edu\B84E81D1\NTEC\Illinois\gov\PIWDOT\Documents\18DOT\Office\B18121\18-031-1.dgn

OSC-A-6

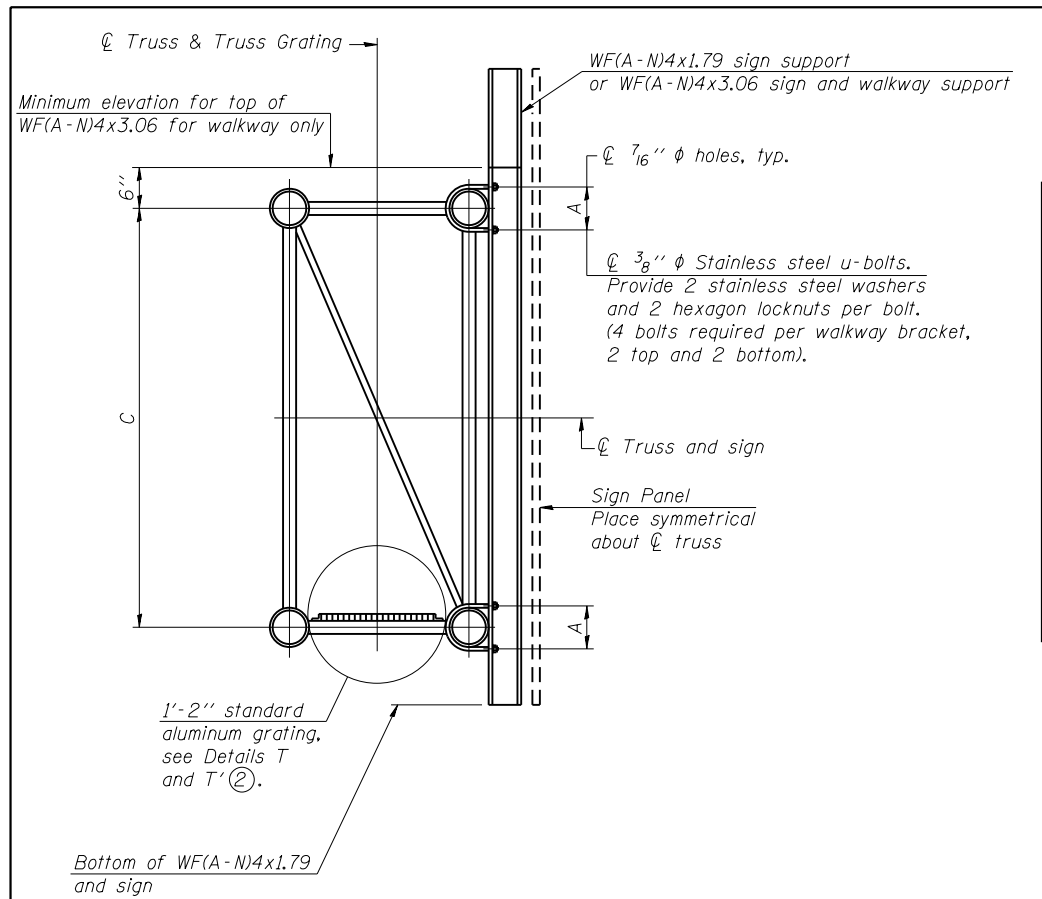
6-1-12

USER NAME = pociechal	DESIGNED - BR / MDM	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN - BAS / LP	REVISED -
PLOT DATE = 8/16/2018	CHECKED - HM	REVISED -
	DATE - 11/03/17	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CANTILEVER SIGN STRUCTURES - ALUMINUM WALKWAY  
DETAILS - ALUMINUM TRUSS & STEEL POST**

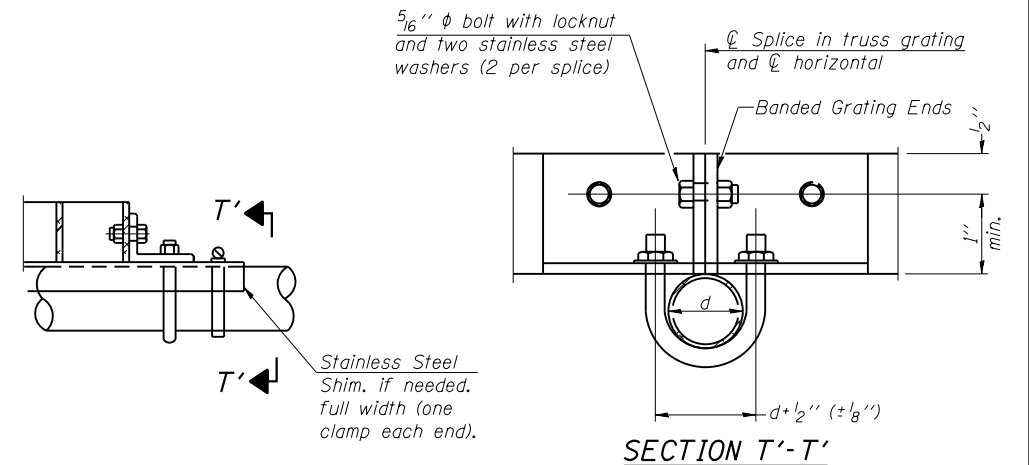
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35		COOK	79	31
CONTRACT NO. 46473				
SCALE:		SHEET OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT



Structure Number	Location	A	B	C	D
IC0161094R000.0-000	0	8 1/2"	-	7'-0"	-
IC0161290L023.5-000	S	8 1/2"	-	7'-0"	-
IC0161290L023.3-000	T	8 1/2"	-	7'-0"	-
IC0161290R001.0-000	13	8 1/2"	-	7'-0"	-
IC016S043R000.0-001	18	8 1/2"	-	7'-0"	-
IC016S043R000.0-002	19	8 1/2"	-	7'-0"	-
IC016S043R000.0-000	20	8 1/2"	-	7'-0"	-

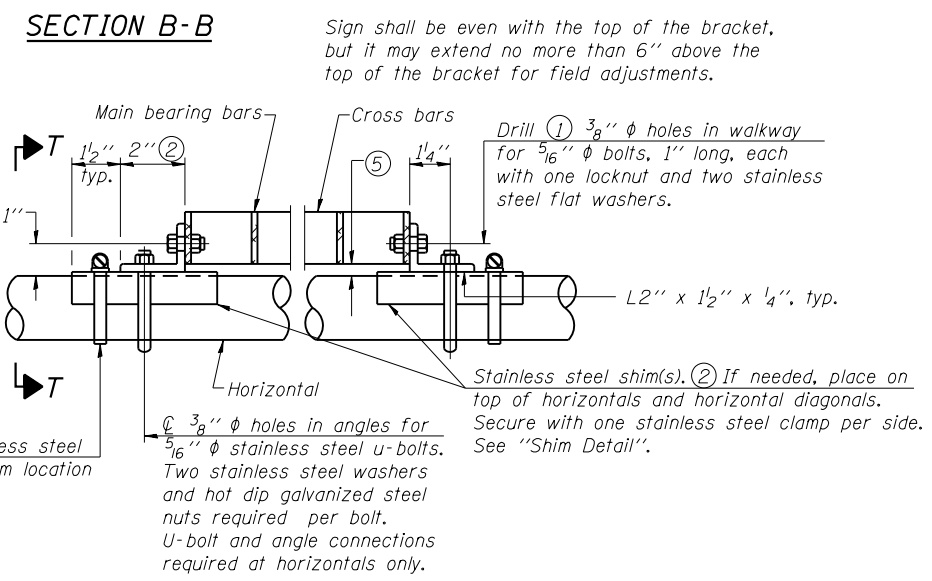
**SPECIFICATIONS FOR STANDARD ALUMINUM GRATING**  
 Main Bearing Bars (MBB) shall be 3/16" x 1 1/2" on 1 3/16" centers and conform to ASTM B211 Alloy 6061-T6.  
 Cross bars (CB) shall be 3/16" x 1 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR  
 Aluminum Grating with modified "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.<sup>3</sup> per bar, a depth of 1 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.



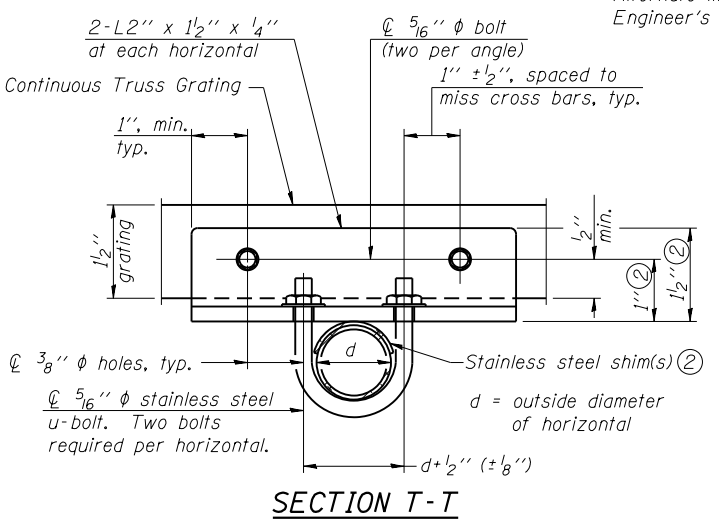
**DETAIL T'**

(Truss grating splice)  
 Details not shown same as Detail T.  
 Alternate materials may be used subject to the Engineer's review and approval.

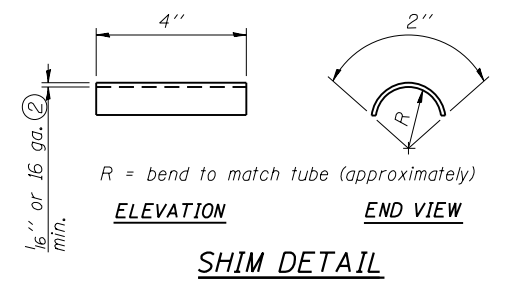


**DETAIL T**

(Continuous Truss grating)



**SECTION T-T**



- ① Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- ② 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.
- ⑤ Tube to grating gap may vary from 0 to 1/2", max. to align walkway, allow for camber, etc.

MODEL: Default  
 FILE: \\macep...  
 PROJECT: OSC-A-7  
 DRAWN: BAS / LP  
 CHECKED: HM  
 DATE: 11/03/17

OSC-A-7

6-1-12

USER NAME = pociechal	DESIGNED - BR / MDM	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN - BAS / LP	REVISED -
PLOT DATE = 8/16/2018	CHECKED - HM	REVISED -
	DATE - 11/03/17	REVISED -

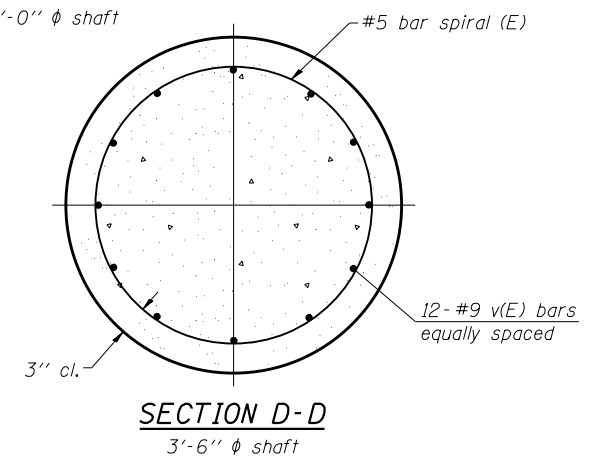
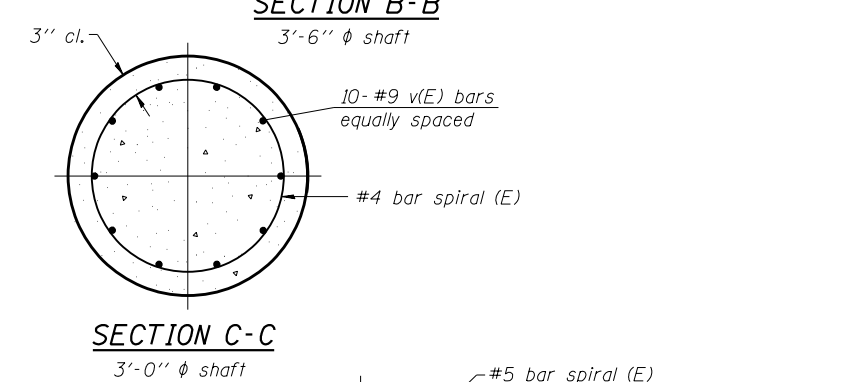
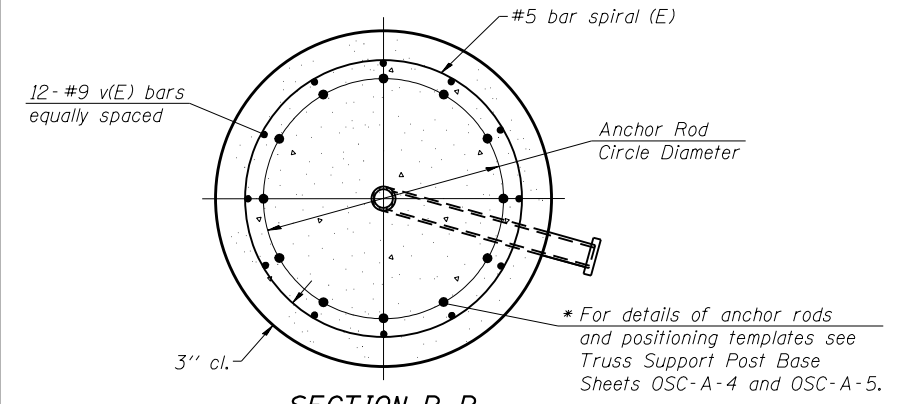
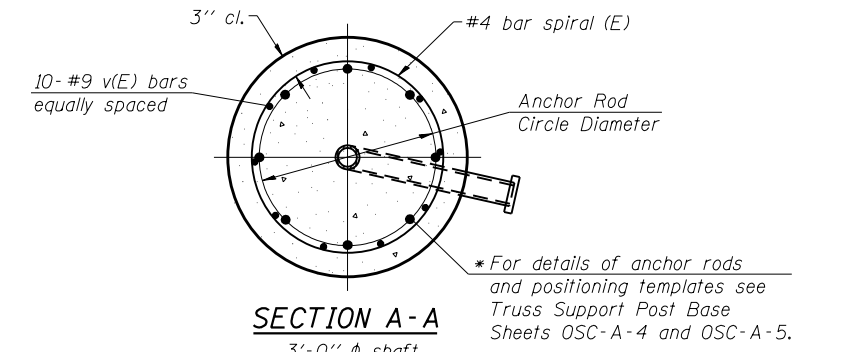
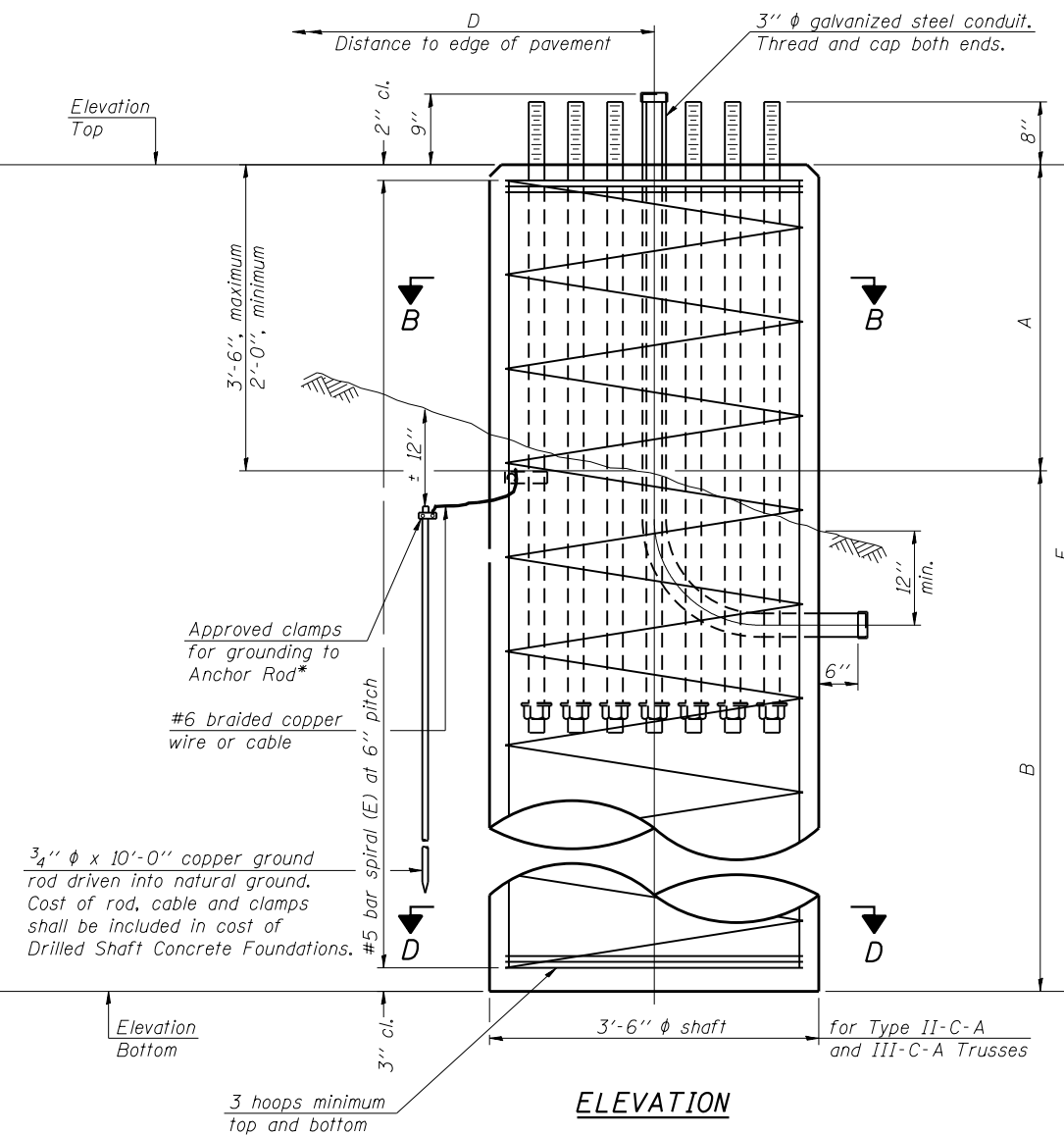
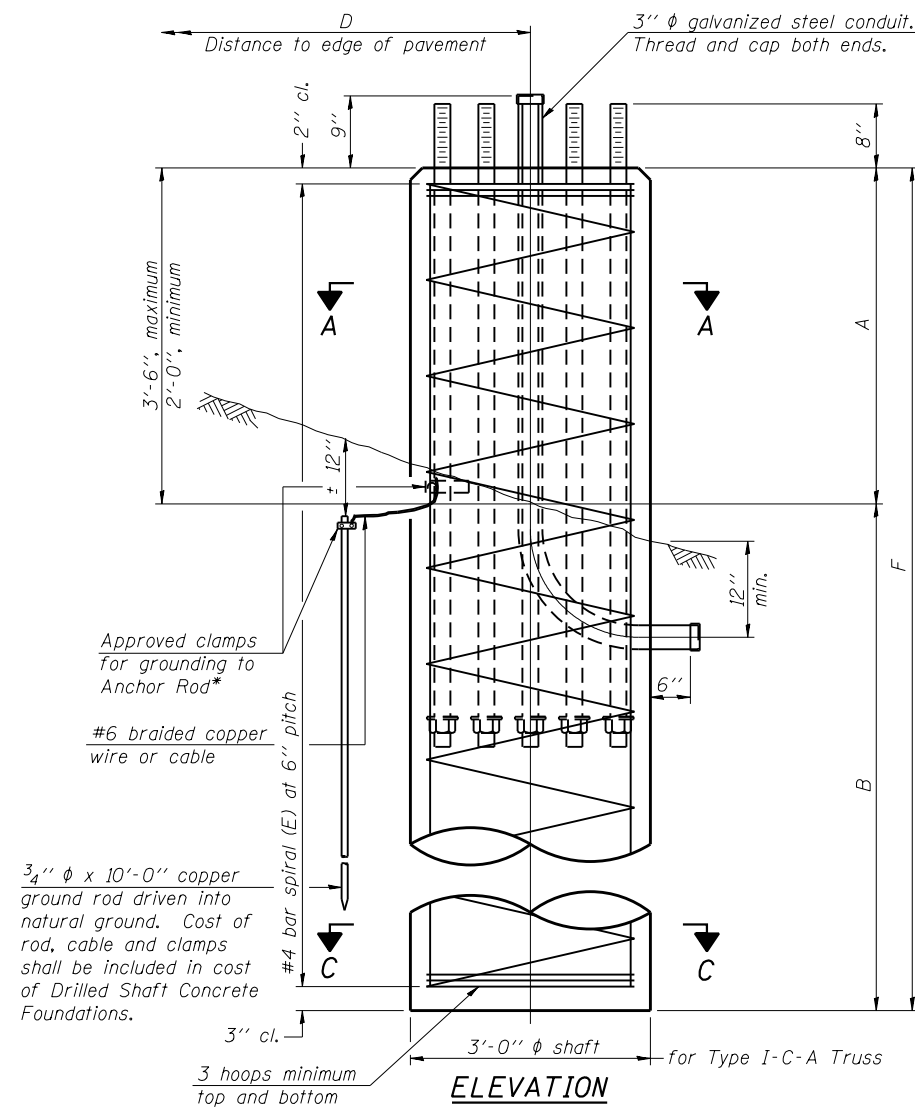
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CANTILEVER SIGN STRUCTURES - WALKWAY DETAILS  
 ALUMINUM TRUSS & STEEL POST**

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
--------	-------	----	--------	------	----	------

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1	OVD SIN STR REPL 18-35	COOK	79	32
ILLINOIS FED. AID PROJECT			CONTRACT NO. 46473	

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

- Low strength cohesive soil and/or granular soil encountered. They have the potential to squeeze or slough into the shaft excavation. Wet method (516.06b), temporary casing method (516.06c) or a combination of the two may be necessary.
- Refer to boring logs provided.

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

Structure Number	Location	Truss Type	Shaft Diameter	Elevation Top	Elevation Bottom	A	B	F	Class DS Concrete Cubic Yards
1C0161094R000.0-000	0	III-C-A	3'-6"	602.15	566.65	3'-6"	32'-0"	35'-6"	12.7
1C0161290L023.5-000	S	III-C-A	3'-6"	625.84	590.34	3'-6"	32'-0"	35'-6"	12.7
1C0161290L023.3-000	T	III-C-A	3'-6"	618.28	582.78	3'-6"	32'-0"	35'-6"	12.7
1C0161290R001.0-000	13	III-C-A	3'-6"	740.91	705.41	3'-6"	32'-0"	35'-6"	12.7
1C016S043R000.0-001	(1)	III-C-A	3'-6"	604.78	569.28	3'-6"	32'-0"	35'-6"	12.7
1C016S043R000.0-002	19	III-C-A	3'-6"	630.42	594.92	3'-6"	32'-0"	35'-6"	12.7
1C016S043R000.0-000	(1)	III-C-A	3'-6"	603.11	567.61	3'-6"	32'-0"	35'-6"	12.7

OSC-A-9

8-21-13

USER NAME = pociechal	DESIGNED - BR / MDM	REVISED - LP 10/22/2018
PLOT SCALE = 100.0000' / in.	DRAWN - BAS / LP	REVISED -
PLOT DATE = 10/22/2018	CHECKED - HM	REVISED -
	DATE - 11/03/17	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - DRILLED SHAFT  
ALUMINUM TRUSS & STEEL POST

SCALE: SHEET OF SHEETS STA. TO STA.

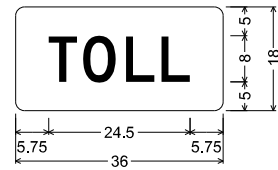
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35		COOK	79	33
CONTRACT NO. 46473				
ILLINOIS / FED. AID PROJECT				

MODEL: Default FILE: \\pociechal\BIBID\NTEC\Illinois\pociechal\DOT\Documents\DOT Office\BIBID\110161094R000.0-000\18-35-33.dgn



**DETAILS**

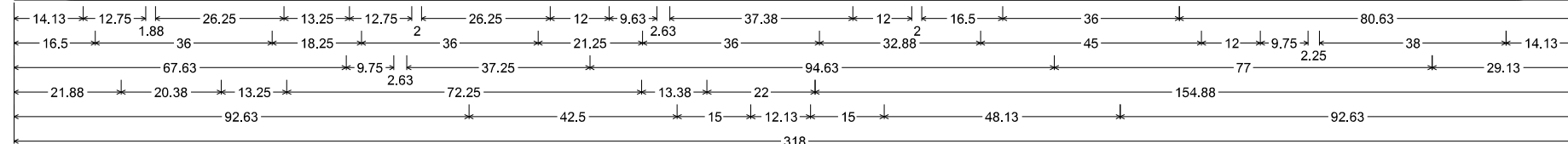
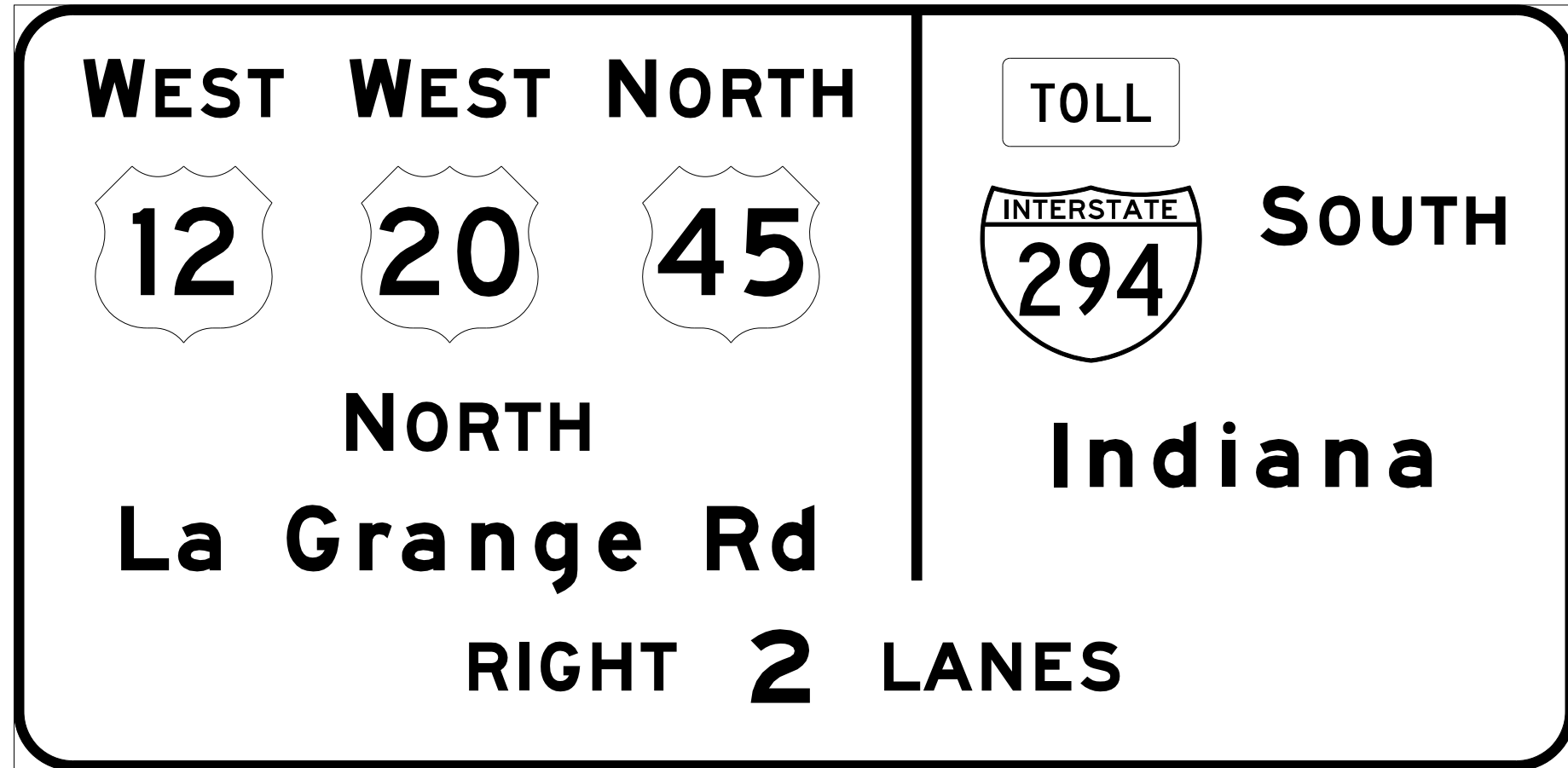
"TOLL" PLAQUE DETAIL DESIGN



1.50" Radius, No border  
[TOLL] Black D 2K;  
Table of widths and spaces.

5.75	T	4.88	1.13	O	5.63	1.75	L	5.00	1.13	L	5.00	5.75
------	---	------	------	---	------	------	---	------	------	---	------	------

STRUCTURE NUMBER		1S016S171L000.0-000	
LOCATION		ARTERIAL	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	26.5' X 13'	
MOUNTING / TYPE		OVERHEAD / TRUSS	
MOUNTING LOC (L, M, R)		RIGHT	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
	LEGEND / BORDER	COLOR:	
		TYPE:	ZZ
		COLOR:	WHITE



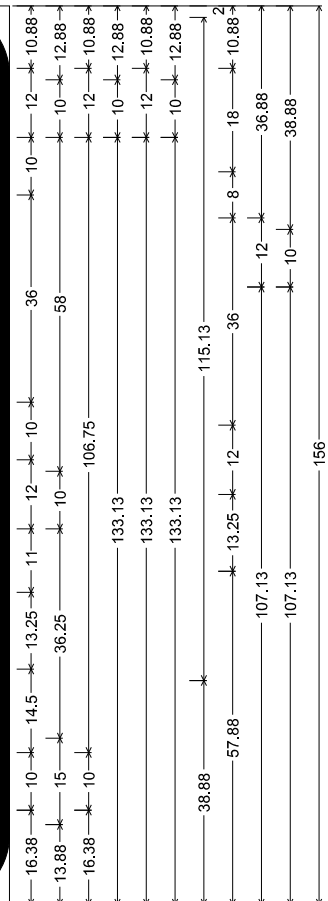
12.00" Radius, 2.00" Border, White on Green;

[WEST] E Mod 2K; [WEST] E Mod 2K; [NORTH] E Mod 2K; [NORTH] E Mod 2K; [La Grange Rd] E Mod 2K; Rounded Rectangle 1.50" Radius Yellow;

[SOUTH] E Mod 2K; [Indiana] E Mod 2K; [RIGHT] E Mod 2K; [2] E Mod 2K; [LANES] E Mod 2K;

Table of widths and spaces.

14.13	12.75	1.88	7.50	1.75	8.13	1.50	7.38	13.25	12.75	2.00	7.38	1.75	8.13	1.50	7.38	12.00	9.75	2.63	8.38	2.50	8.00	1.13	7.38	1.88	8.00	12.00	2.00	16.50	36.00	80.75
16.50	36.00	18.25	36.00	21.25	36.00	32.88	45.00	12.00	9.75	2.25	8.38	2.38	8.13	1.88	7.38	1.75	8.13	14.13												
67.63	9.75	2.63	8.38	2.38	8.13	1.13	7.38	1.75	8.13	94.63	2.63	4.63	8.75	4.13	8.75	5.38	2.63	4.13	8.88	5.25	8.88	4.13	8.75	29.13						
21.88	9.75	1.75	8.88	13.25	10.88	4.00	6.63	2.00	8.75	5.38	8.75	4.13	8.88	4.13	8.75	13.38	10.75	2.38	8.88	154.88										
92.63	8.13	2.13	2.00	2.38	8.13	2.38	8.13	1.75	7.38	15.00	12.13	15.00	7.50	0.50	10.13	1.88	8.00	2.88	7.38	1.75	8.13	92.63								



MODEL: Default  
FILE: \\nas01\p04\BID\BIDD\ITC\Illinois\gov\PIVDOT\Documents\BIDD\Office\BID\refct\_1\proj\cts\m60009\18\CAD\BID\Traffic\m60009\18\_rht-adjn.dgn

USER NAME = pociechal	DESIGNED - LP	REVISED -
DRAWN - LP	REVISED -	
PLOT SCALE = 40.0000' / in.	CHECKED - BS	REVISED -
PLOT DATE = 8/16/2018	DATE - 11/03/2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

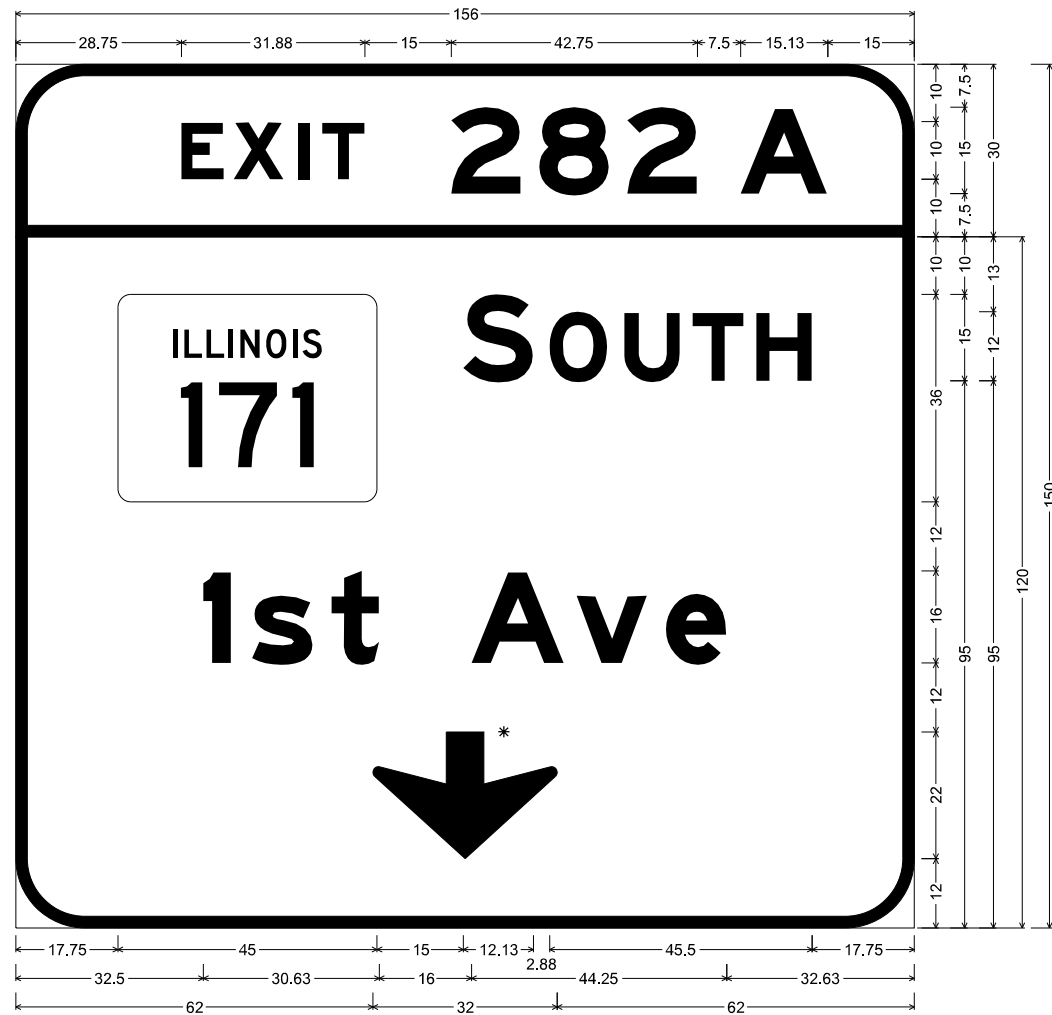
**SIGN PANEL DESIGN  
LOCATION #A**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35		COOK	79	35
CONTRACT NO. 46473				
ILLINOIS FED. AID PROJECT				

STRUCTURE NUMBER		1S0161055L282.6-000	
LOCATION		EXPRESSWAY	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	13' X 12.5'	
MOUNTING / TYPE		OVERHEAD / TRUSS	
MOUNTING LOC (L, M, R)		LEFT	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
	LEGEND / BORDER	TYPE:	ZZ
		COLOR:	WHITE
		TYPE:	
	COLOR:		

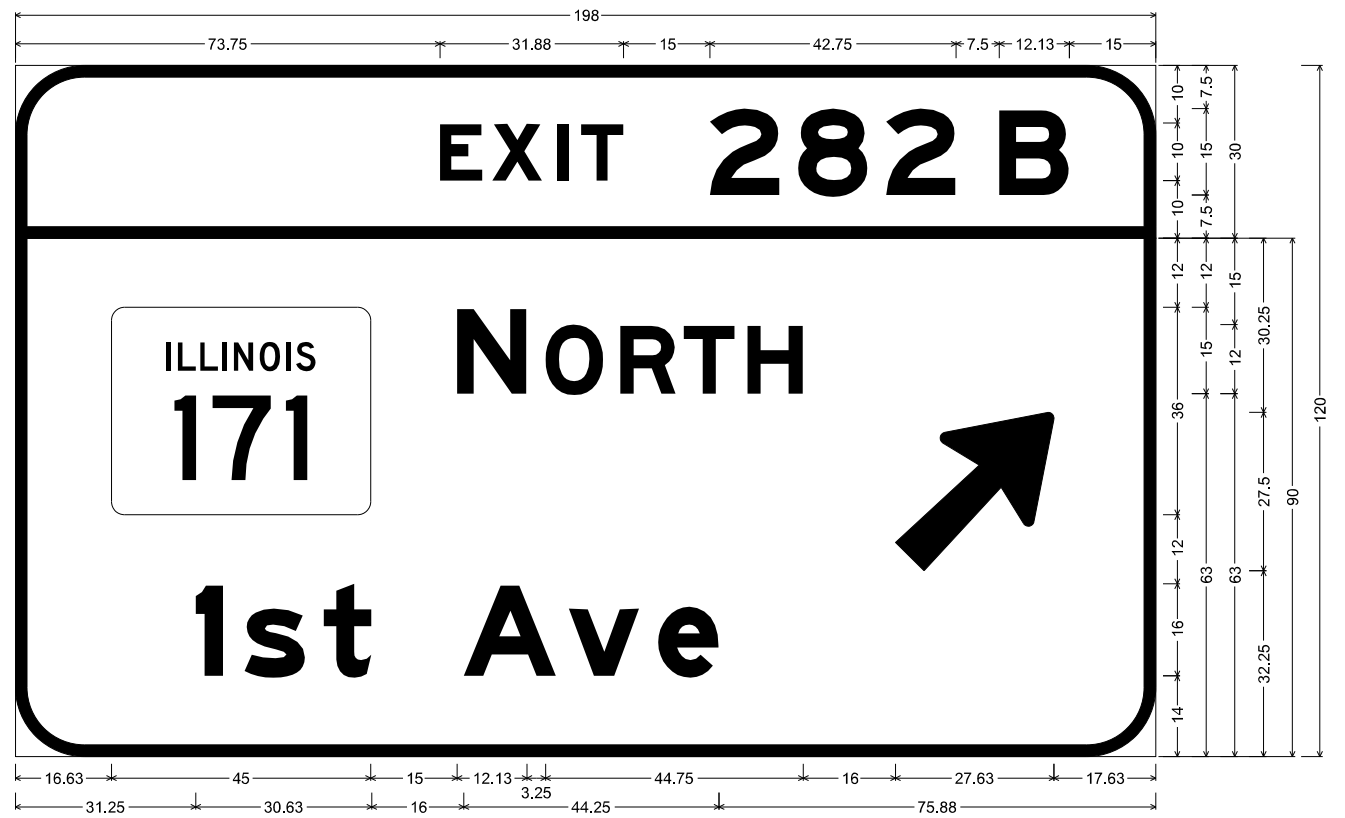
STRUCTURE NUMBER		1S0161055L282.6-000	
LOCATION		EXPRESSWAY	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	16.5' X 10'	
MOUNTING / TYPE		OVERHEAD / TRUSS	
MOUNTING LOC (L, M, R)		RIGHT	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
	LEGEND / BORDER	TYPE:	ZZ
		COLOR:	WHITE
		TYPE:	
	COLOR:		



12.00" Radius, 2.00" Border, White on Green;  
 [EXIT] E Mod 2K 120% spacing; [282] E Mod 2K; [A] E Mod 2K;  
 12.00" Radius, 2.00" Border, White on Green;  
 [SOUTH] E Mod 2K; [1st Ave] E Mod 2K; Down Arrow 22.00" 270°;  
 Table of widths and spaces.

28.75	E	7.38	1.75	X	8.63	2.50	I	2.00	2.25	T	7.38	15.00	Z	12.13	3.13	B	12.13	3.13	Z	12.25	7.50	A	15.13	15.00
17.75		45.00		S	12.13	2.88	O	10.00	2.88	U	9.75	2.13	T	8.88	2.13	H	9.75	17.75						
32.50	I	4.88	3.63	s	10.63	3.13	t	8.38	16.00	A	16.13	2.13	v	12.25	3.25	e	10.50	32.63						
62.00																								

\* ARROWS SHALL BE DEMOUNTABLE



12.00" Radius, 2.00" Border, White on Green;  
 [EXIT] E Mod 2K 120% spacing; [282] E Mod 2K; [B] E Mod 2K;  
 12.00" Radius, 2.00" Border, White on Green;  
 [NORTH] E Mod 2K; [1st Ave] E Mod 2K; Arrow 160 - 35.00" 45°;  
 Table of widths and spaces.

73.75	E	7.38	1.75	X	8.63	2.50	I	2.00	2.25	T	7.38	15.00	Z	12.13	3.13	B	12.13	3.13	Z	12.25	7.50	B	12.13	15.00
16.63		45.00		N	12.13	3.25	O	10.13	2.88	R	9.75	1.25	T	8.88	2.25	H	9.63	16.00		27.50	17.75			
31.25	I	4.88	3.63	s	10.63	3.13	t	8.38	16.00	A	16.13	2.13	v	12.25	3.25	e	10.50	75.88						

MODEL: Default  
 FILE: \\nas01\B&E\IDNT\EC\Illinois\gov\p\WIDOT\Documents\1801\1801000918\CDDB\atTraffic\1801000918-282a.dgn

USER NAME = pociechal	DESIGNED - LP	REVISED -
DRAWN - LP	REVISED -	
PLOT SCALE = 40.0000" / in.	CHECKED - BS	REVISED -
PLOT DATE = 8/16/2018	DATE - 11/03/2017	REVISED -

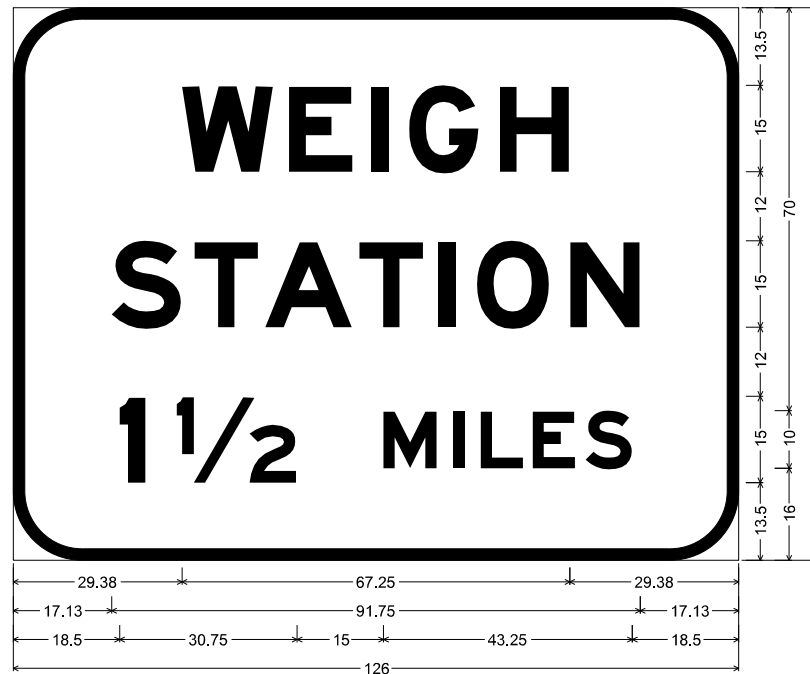
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SIGN PANEL DESIGN  
 LOCATION #G

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35		COOK	79	36
CONTRACT NO. 46473				
ILLINOIS FED. AID PROJECT				

STRUCTURE NUMBER		1S016I080L149.2-000	
LOCATION		EXPRESSWAY	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	10.5' X 8'	
MOUNTING / TYPE		OVERHEAD / TRUSS	
MOUNTING LOC (L, M, R)		LEFT	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
	LEGEND / BORDER	COLOR:	
		TYPE:	ZZ
		COLOR:	WHITE



12.00" Radius, 2.00" Border, White on Green;  
 [WEIGH] E Mod 2K; [STATION] E Mod 2K; [1 1/2] E Mod 2K; [MILES] E Mod 2K;  
 Table of widths and spaces.

29.38	<b>W</b>	15.88	2.63	<b>E</b>	11.13	3.13	<b>I</b>	3.00	3.63	<b>G</b>	12.13	3.63	<b>H</b>	12.13	29.38						
17.13	<b>S</b>	12.13	2.25	<b>T</b>	11.13	1.13	<b>A</b>	15.13	1.25	<b>T</b>	11.13	2.63	<b>I</b>	3.00	3.63	<b>O</b>	12.63	3.63	<b>N</b>	12.13	17.13
18.50	<b>I</b>	4.50	5.38	1/2	20.88	15.00	<b>M</b>	9.38	2.75	<b>I</b>	2.00	2.88	<b>L</b>	7.38	1.50	<b>E</b>	7.50	1.75	<b>S</b>	8.13	18.50

MODEL: Default  
 FILE: \\nas01.cpe.uiowa.edu\BEBIDN\TEC\Illinois\gov\PIV\DOT\Documents\DOT\_Offices\DI\refct\_1\Projects\I66000918\CADD\baa\Traffic\I66000918-ctc-ajl.mxd

USER NAME = poclechal	DESIGNED - LP	REVISED -
	DRAWN - LP	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - BS	REVISED -
PLOT DATE = 8/16/2018	DATE - 11/03/2017	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

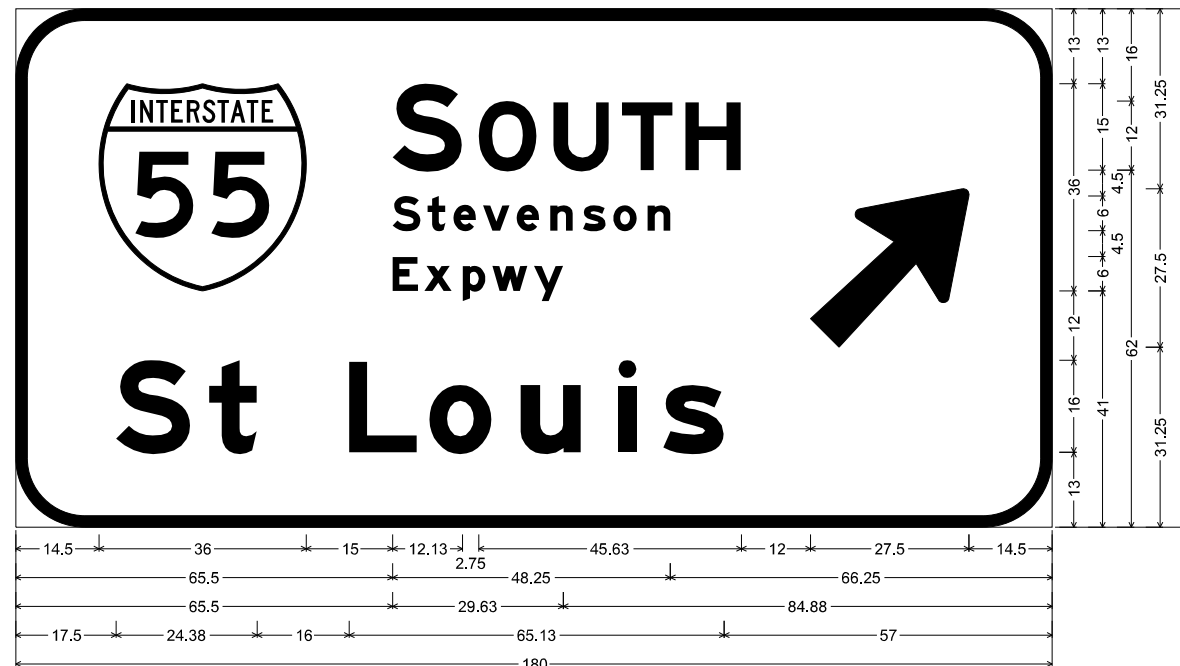
**SIGN PANEL DESIGN**  
**LOCATION #K**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35		COOK	79	37
CONTRACT NO. 46473				
ILLINOIS FED. AID PROJECT				



STRUCTURE NUMBER		1C016I094R000.0-000	
LOCATION		ARTERIAL	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	15' X 7.5'	
MOUNTING / TYPE		OVERHEAD / CANTILEVER	
MOUNTING LOC (L, M, R)		-	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
	LEGEND / BORDER	COLOR:	
		TYPE:	ZZ
		COLOR:	WHITE



12.00" Radius, 2.00" Border, White on Green;  
 [SOUTH] E Mod 2K; [Stevenson] E Mod 2K; [Expwy] E Mod 2K; [St Louis] E Mod 2K; Arrow 160 - 35.00" 45°;  
 Table of widths and spaces.

14.50	36.00	15.00	S	12.13	2.75	10.13	2.88	9.75	2.13	8.88	2.13	H	9.75	12.00	27.50	14.50				
65.50	4.75	1.25	t	3.13	1.38	4.00	1.13	4.63	1.25	3.88	1.88	n	4.00	1.75	4.00	1.25	4.13	1.88	3.88	66.38
65.50	E	4.38	1.13	x	4.75	1.88	4.00	1.13	w	6.13	1.13	y	5.00	85.00						
17.50	S	12.88	3.25	t	8.25	16.00	L	11.88	2.13	10.88	4.88	u	10.63	6.38	3.13	4.75	10.50	57.00		

MODEL: Default  
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USER NAME = pociechal DESIGNED - LP DRAWN - LP PLOT SCALE = 40.0000 ' / in. PLOT DATE = 8/16/2018	DESIGNED - LP DRAWN - LP CHECKED - BS DATE - 11/03/2017	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS          DEPARTMENT OF TRANSPORTATION</b>		<b>SIGN PANEL DESIGN          LOCATION #0</b>				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
									D-1 OVD SIN STR REPL 18-35	COOK	79	38	
									CONTRACT NO. 46473				
			SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT			

**DETAILS**

"LEFT" PLAQUE DETAIL DESIGN



1.88" Radius, No border, White on Yellow;  
[LEFT] Black E Mod 2K 120% spacing;  
Table of widths and spaces.

L	E	F	T
8.75	8.88	2.38	8.88
3.00	8.88	1.63	8.88
8.75			8.75

STRUCTURE NUMBER		1C016I290L023.5-000
LOCATION		EXPRESSWAY
SIZE (W x H)	EXIT PLAQUE	-
	MAIN PANEL	15' X 11'
MOUNTING / TYPE		OVERHEAD / CANTILEVER
MOUNTING LOC (L, M, R)		-
SHEETING / COLOR	BACKGROUND	TYPE: ZZ
		COLOR: GREEN
		TYPE: ZZ
		COLOR: YELLOW
	LEGEND / BORDER	TYPE: ZZ
		COLOR: WHITE
		TYPE:
		COLOR:



12.00" Radius, 2.00" Border, White on Green;  
Rounded Rectangle 1.88" Radius Yellow;  
[EXIT] E Mod 2K 120% spacing; [23] E Mod 2K; [A] E Mod 2K;  
12.00" Radius, 2.00" Border, White on Green;  
[Austin Blvd] E Mod 2K;  
12.00" Radius, 1.50" Border, 0.50" Indent, Black on Yellow;  
[EXIT] E Mod 2K 140% spacing; Down Arrow 22.00" 270°; [ONLY] E Mod 2K;  
Table of widths and spaces.

15.00	60.00	105.00																												
29.13	E	7.38	1.63	X	8.75	2.50	I	2.00	2.13	T	7.38	15.00	2	12.13	2.38	3	12.25	7.50	A	15.13	54.75									
15.00	A	16.25	3.75	u	10.63	4.63	s	10.50	3.25	t	8.25	5.13	i	3.25	6.38	n	10.63	16.00	B	12.88	4.50	l	3.25	4.63	v	12.25	3.25	d	10.50	15.13
16.88	E	8.88	2.38	X	10.38	3.50	I	2.50	3.00	T	8.88	15.00	32.00	12.00	O	10.00	2.88	N	9.75	3.38	L	8.88	0.75	12.13	16.88					

\* ARROWS SHALL BE DEMOUNTABLE

MODEL: Default  
FILE: \\nas01\BIB\BIB\NTEC\Illinois\gov\PIV\DOT\Documents\DOT\_Offices\DI\erict\_1\Projects\I4660009\18\CD\BIB\Traffic\I4660009\18-21c-ajl.mxd

USER NAME = poclechal	DESIGNED - LP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGN PANEL DESIGN		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - LP	REVISED -		LOCATION #S		D-1 OVD SIN STR REPL 18-35	COOK	79	39	
PLOT SCALE = 40.0000 ' / in.	CHECKED - BS	REVISED -	SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	CONTRACT NO. 46473
PLOT DATE = 8/16/2018	DATE - 11/03/2017	REVISED -								ILLINOIS FED. AID PROJECT

**DETAILS**

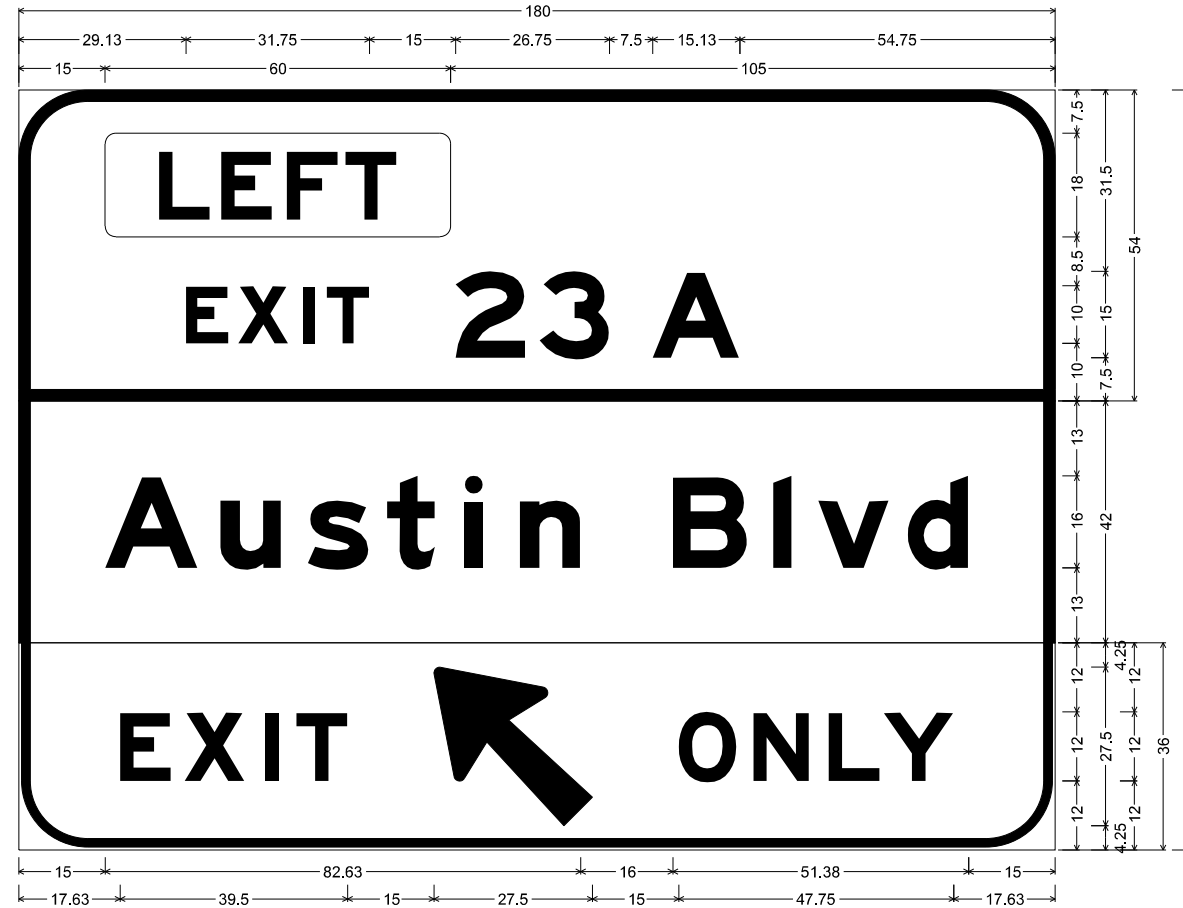
"LEFT" PLAQUE DETAIL DESIGN



1.88" Radius, No border, White on Yellow;  
[LEFT] Black E Mod 2K 120% spacing;  
Table of widths and spaces.

L	E	F	T
8.75	8.88	2.38	8.88
3.00	8.88	1.63	8.88
8.75			8.75

STRUCTURE NUMBER		1C016I290L023.3-000
LOCATION		EXPRESSWAY
SIZE (W x H)	EXIT PLAQUE	-
	MAIN PANEL	15' X 11'
MOUNTING / TYPE		OVERHEAD / CANTILEVER
MOUNTING LOC (L, M, R)		-
SHEETING / COLOR	BACKGROUND	TYPE: ZZ
		COLOR: GREEN
		TYPE: ZZ
		COLOR: YELLOW
	LEGEND / BORDER	TYPE: ZZ
		COLOR: WHITE
		TYPE:
		COLOR:



12.00" Radius, 2.00" Border, White on Green;  
Rounded Rectangle 1.88" Radius Yellow;  
[EXIT] E Mod 2K 120% spacing; [23] E Mod 2K; [A] E Mod 2K;  
12.00" Radius, 2.00" Border, White on Green;  
[Austin Blvd] E Mod 2K;  
12.00" Radius, 1.50" Border, 0.50" Indent, Black on Yellow;  
[EXIT] E Mod 2K 140% spacing; Arrow 160 - 35.00" 135°; [ONLY] E Mod 2K;  
Table of widths and spaces.

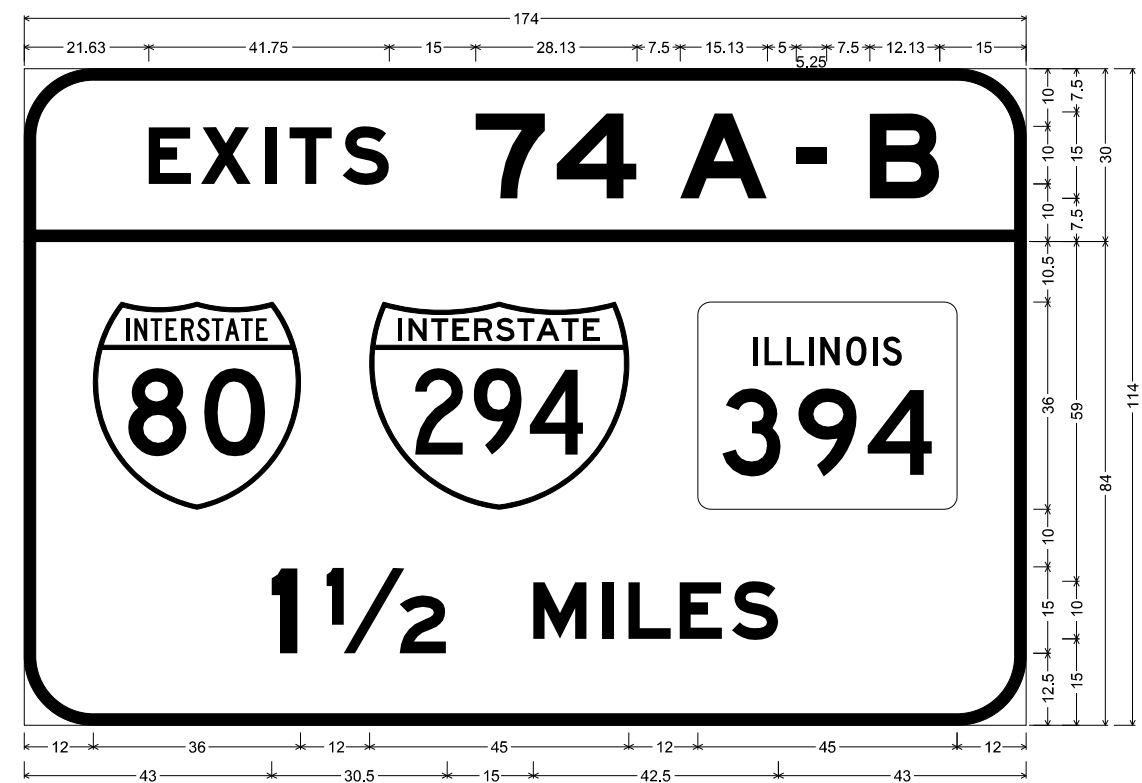
15.00	60.00	105.00																												
29.13	E	7.38	1.63	X	8.75	2.50	I	2.00	2.13	T	7.38	15.00	Z	12.13	2.38	3	12.25	7.50	A	15.13	54.75									
15.00	A	16.25	3.75	u	10.63	4.63	s	10.50	3.25	t	8.25	5.13	i	3.25	6.38	n	10.63	16.00	B	12.88	4.50	l	3.25	4.63	v	12.25	3.25	d	10.50	15.13
17.63	E	8.88	2.38	X	10.38	3.50	I	2.50	3.00	T	8.88	15.00	27.50	15.00	O	10.00	3.00	N	9.63	3.38	L	8.88	0.75	Y	12.13	17.63				

MODEL: Default; FILE: \\nas01c.pva\ulb\B\BID\NTEC\Illinois\gov\PIVDOT\Documents\DOT\_Offices\DI\erict\_1\Projects\Illinois\18\CDDB\aa\Traffic\6000918-ahc-ajl.mxd

USER NAME = poclechal	DESIGNED - LP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGN PANEL DESIGN LOCATION #T	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DRAWN - LP	REVISED -	D-1 OVD SIN STR REPL 18-35			COOK	79	40		
PLOT SCALE = 40.0000 ' / in.	CHECKED - BS	REVISED -			CONTRACT NO. 46473				
PLOT DATE = 8/16/2018	DATE - 11/03/2017	REVISED -			ILLINOIS	FED. AID PROJECT			
				SCALE:	SHEET	OF	SHEETS	STA.	TO STA.

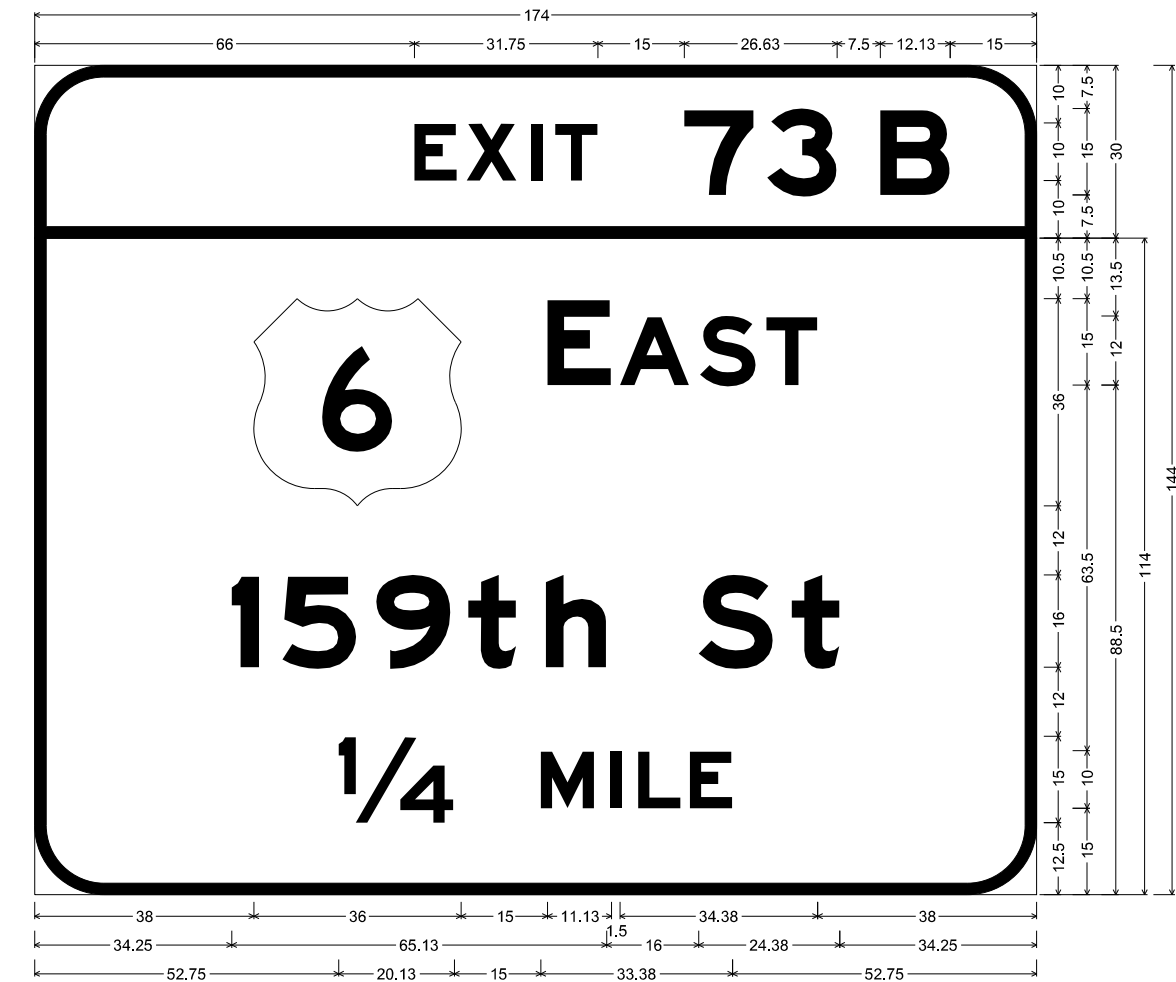
STRUCTURE NUMBER		1S0161094R072.7-000	
LOCATION		EXPRESSWAY	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	14.5' X 9.5'	
MOUNTING / TYPE		OVERHEAD / TRUSS	
MOUNTING LOC (L, M, R)		LEFT	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
	LEGEND / BORDER	TYPE:	ZZ
		COLOR:	WHITE
		TYPE:	

STRUCTURE NUMBER		1S0161094R072.7-000	
LOCATION		EXPRESSWAY	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	14.5' X 12'	
MOUNTING / TYPE		OVERHEAD / TRUSS	
MOUNTING LOC (L, M, R)		MIDDLE	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
	LEGEND / BORDER	TYPE:	ZZ
		COLOR:	WHITE
		TYPE:	



12.00" Radius, 2.00" Border, White on Green;  
 [EXITS] E Mod 2K 120% spacing; [74] E Mod 2K; [A] E Mod 2K; [-] E Mod 2K; [B] E Mod 2K;  
 12.00" Radius, 2.00" Border, White on Green;  
 [1 1/2 MILES] E Mod 2K specified length;  
 Table of widths and spaces.

21.63	E	7.38	1.75	X	8.63	2.50	I	2.00	2.25	T	7.38	1.75	S	8.13	15.00	7	12.13	2.00	4	13.88	7.50	A	15.25	5.00	5.25	7.50	B	12.13	15.00
12.00	80	36.00	12.00	294	45.00	12.00	394	45.00	12.00																				
43.00	I	4.50	5.00	1/2	21.00	15.00	M	9.25	2.63	I	2.00	2.50	L	7.50	1.50	E	7.38	1.63	S	8.13	43.00								



12.00" Radius, 2.00" Border, White on Green;  
 [EXIT] E Mod 2K 120% spacing; [73] E Mod 2K; [B] E Mod 2K;  
 12.00" Radius, 2.00" Border, White on Green;  
 [EAST] E Mod 2K; [159th St] E Mod 2K; [1/4] E Mod 2K; [MILE] E Mod 2K;  
 Table of widths and spaces.

66.00	E	7.38	1.63	X	8.75	2.50	I	2.00	2.13	T	7.38	15.00	7	12.13	2.25	3	12.25	7.50	B	12.13	15.00								
38.00	6	36.00	15.00	E	11.13	1.50	A	12.13	1.75	S	9.75	1.75	T	9.00	38.00														
34.25	I	4.75	4.00	S	13.00	3.38	9	12.88	3.00	t	8.38	5.13	h	10.50	16.00	S	13.00	3.25	t	8.25	34.25								
52.75	1/4	20.13	15.00	M	9.38	2.75	I	2.00	2.75	L	7.50	1.50	E	7.50	52.75														

MODEL: Default  
 FILE: \\nas01\B&E\ID\ITEC\Illinois\gov\p\W\DOT\Documents\1\DOT Office\Illinois\11\Projects\1160009\18\chc-ajl.mxd

USER NAME	= pociechal	DESIGNED	- LP	REVISED	-
DRAWN	- LP	CHECKED	- BS	REVISED	-
PLOT SCALE	= 40.0000 ' / in.	DATE	- 11/03/2017	REVISED	-
PLOT DATE	= 8/16/2018				

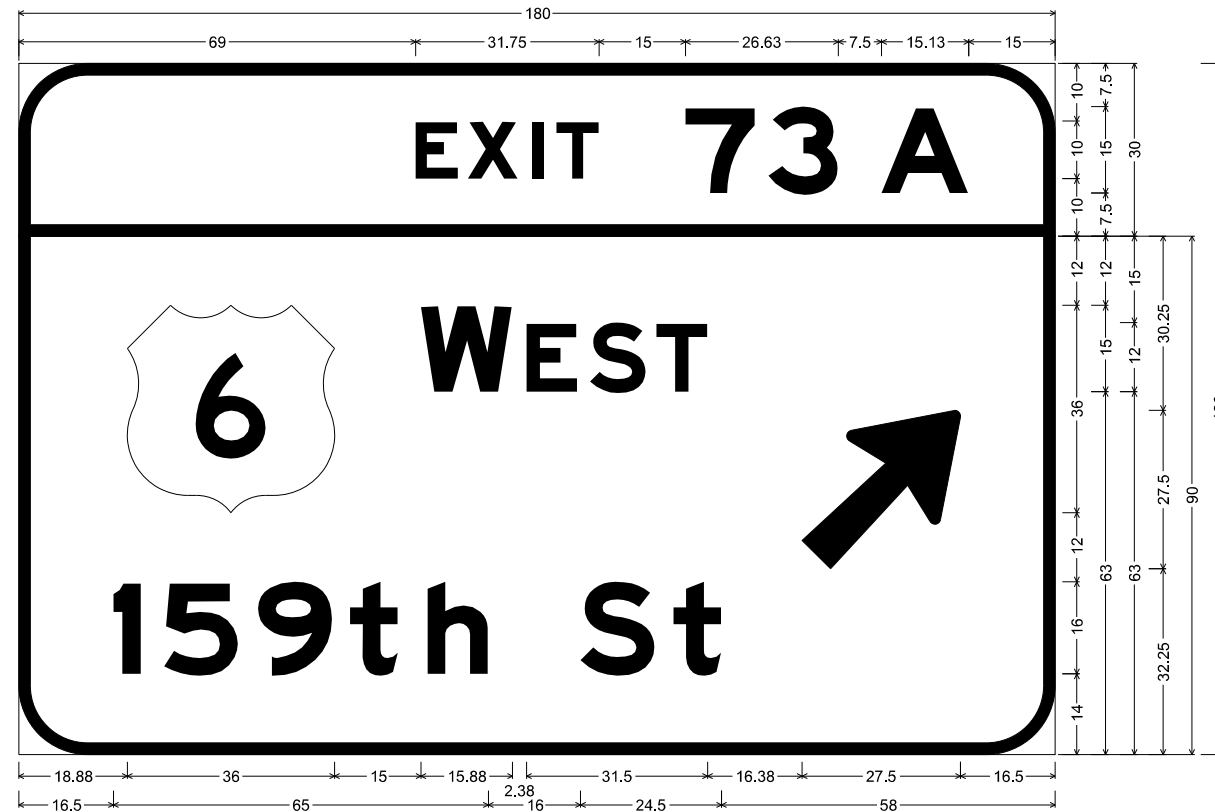
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGN PANEL DESIGN  
LOCATION #U (1 OF 2)**

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35		COOK	79	41
CONTRACT NO. 46473				
ILLINOIS FED. AID PROJECT				

STRUCTURE NUMBER		1S016I094R072.7-000	
LOCATION		EXPRESSWAY	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	15' X 10'	
MOUNTING / TYPE		OVERHEAD / TRUSS	
MOUNTING LOC (L, M, R)		RIGHT	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
	LEGEND / BORDER	TYPE:	ZZ
		COLOR:	WHITE
		COLOR:	



12.00" Radius, 2.00" Border, White on Green;  
 [EXIT] E Mod 2K 120% spacing; [73] E Mod 2K; [A] E Mod 2K;  
 12.00" Radius, 2.00" Border, White on Green;  
 [WEST] E Mod 2K; [159th St] E Mod 2K; Arrow 160 - 35.00" 45°;

Table of widths and spaces.

69.00	E	7.38	1.63	X	8.75	2.50	I	2.00	2.13	T	7.38	15.00	7	12.13	2.25	3	12.25	7.50	A	15.13	15.00
18.88	(6)	36.00	15.00	W	15.88	2.38	E	8.88	2.25	S	9.63	1.88	T	8.88	16.38	27.50	16.50				
16.50	1	4.75	4.00	5	13.00	3.25	9	13.00	3.00	t	8.38	5.13	h	10.50	16.00	s	13.00	3.25	t	8.25	58.00

MODEL: Default  
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USER NAME = pociechal	DESIGNED - LP	REVISED -
	DRAWN - LP	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - BS	REVISED -
PLOT DATE = 8/16/2018	DATE - 11/03/2017	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

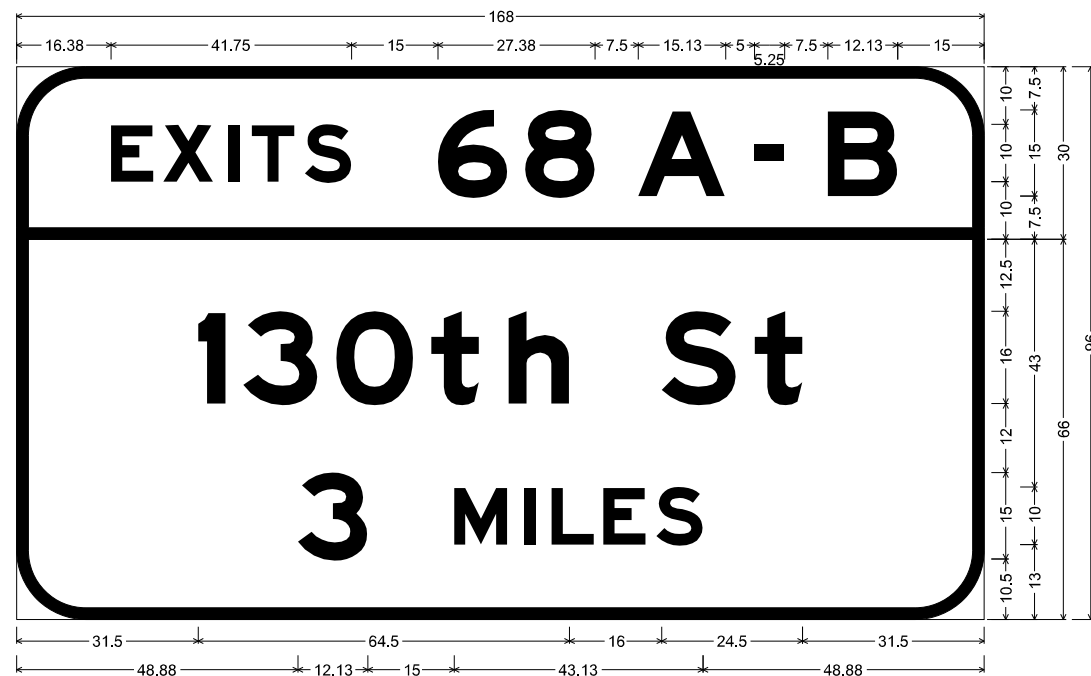
**SIGN PANEL DESIGN**  
**LOCATION #U (2 OF 2)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35		COOK	79	42
			CONTRACT NO. 46473	
		ILLINOIS	FED. AID PROJECT	

STRUCTURE NUMBER		1S016I094L071.5-000
LOCATION		EXPRESSWAY
SIZE (W x H)	EXIT PLAQUE	-
	MAIN PANEL	14' X 8'
MOUNTING / TYPE		OVERHEAD / TRUSS
MOUNTING LOC (L, M, R)		LEFT
SHEETING / COLOR	BACKGROUND	TYPE: ZZ
		COLOR: GREEN
		TYPE:
	LEGEND / BORDER	TYPE: ZZ
		COLOR: WHITE
		TYPE:
COLOR:		

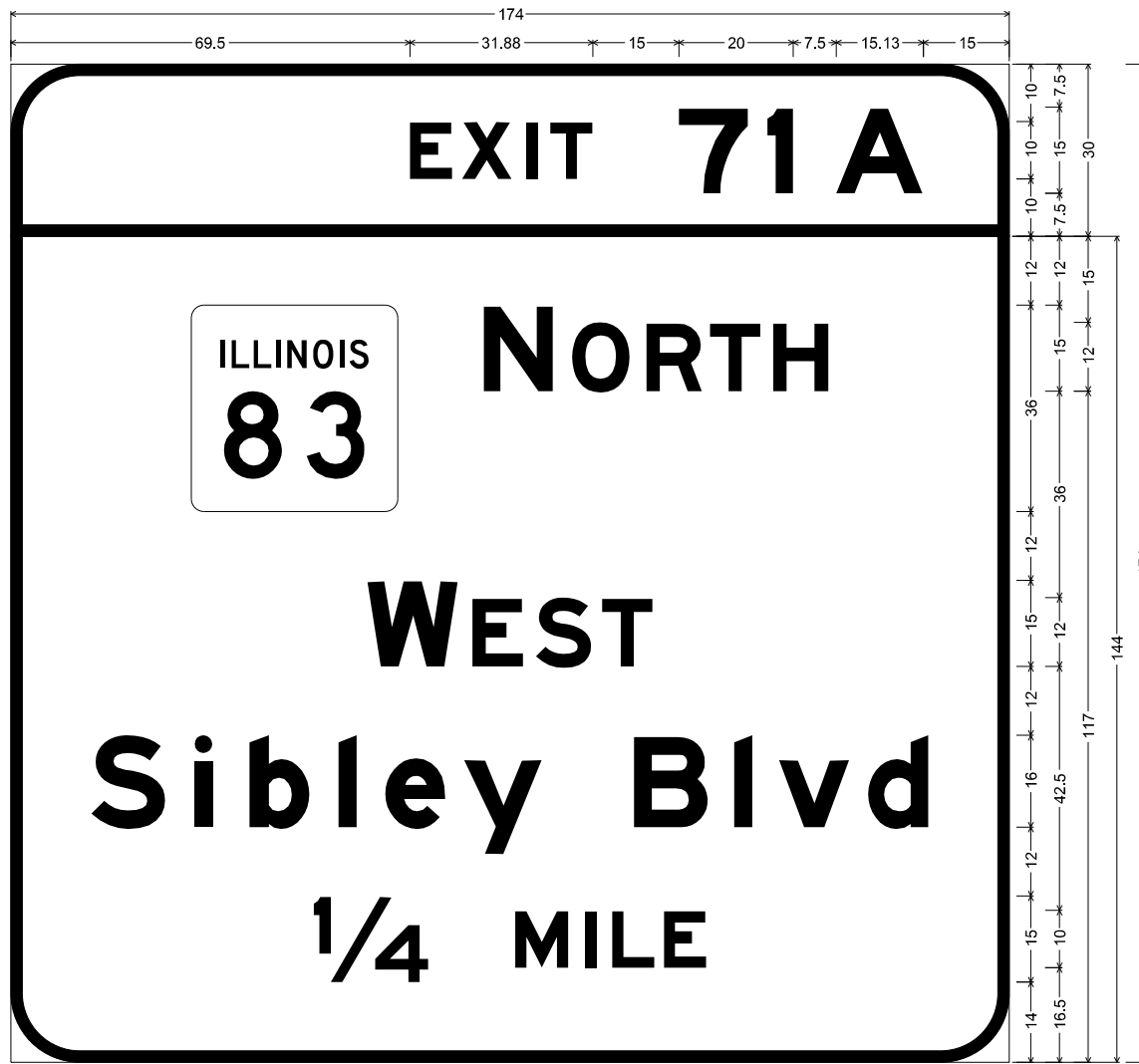
STRUCTURE NUMBER		1S016I094L071.5-000
LOCATION		EXPRESSWAY
SIZE (W x H)	EXIT PLAQUE	-
	MAIN PANEL	14.5' X 14.5'
MOUNTING / TYPE		OVERHEAD / TRUSS
MOUNTING LOC (L, M, R)		MIDDLE
SHEETING / COLOR	BACKGROUND	TYPE: ZZ
		COLOR: GREEN
		TYPE:
	LEGEND / BORDER	TYPE: ZZ
		COLOR: WHITE
		TYPE:
COLOR:		



12.00" Radius, 2.00" Border, White on Green;  
 [EXITS] E Mod 2K 120% spacing; [68] E Mod 2K; [A] E Mod 2K; [-] E Mod 2K; [B] E Mod 2K;  
 12.00" Radius, 2.00" Border, White on Green;  
 [130th St] E Mod 2K; [3] E Mod 2K; [MILES] E Mod 2K;

Table of widths and spaces.

16.38	7.38	1.75	8.63	2.50	2.00	2.25	7.38	1.75	8.13	15.00	12.13	3.00	12.13	7.50	15.25	5.00	5.25	7.50	12.13	15.00
31.50	4.88	3.00	13.00	3.13	13.50	3.00	8.25	5.13	10.63	16.00	13.00	3.13	8.38	31.50						
48.88	12.13	15.00	9.25	2.88	1.88	2.88	7.38	1.63	7.38	1.75	8.13	48.88								



12.00" Radius, 2.00" Border, White on Green;  
 [EXIT] E Mod 2K 120% spacing; [71] E Mod 2K; [A] E Mod 2K;  
 12.00" Radius, 2.00" Border, White on Green;  
 [NORTH] E Mod 2K; [WEST] E Mod 2K; [Sibley Blvd] E Mod 2K; [1/4] E Mod 2K; [MILE] E Mod 2K;

Table of widths and spaces.

69.50	7.50	1.63	8.75	2.50	2.00	2.13	7.38	15.00	12.13	3.38	4.50	7.50	15.13	15.00						
31.38	36.00	15.00	12.25	3.13	10.13	2.88	9.75	1.25	8.88	2.25	9.63	31.50								
62.13	15.88	2.38	8.88	2.25	9.63	1.88	8.88	62.13												
14.00	13.00	5.00	3.13	6.38	10.63	5.00	3.13	5.00	10.50	3.25	13.63	16.00	12.88	4.50	3.25	4.63	12.25	3.25	10.50	14.13
52.75	20.13	15.00	9.38	2.75	2.00	2.75	7.50	1.50	7.50	52.75										

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DRAWN - LP	REVISIONS -	
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PLOT DATE = 8/16/2018	DATE - 11/03/2017	REVISED -

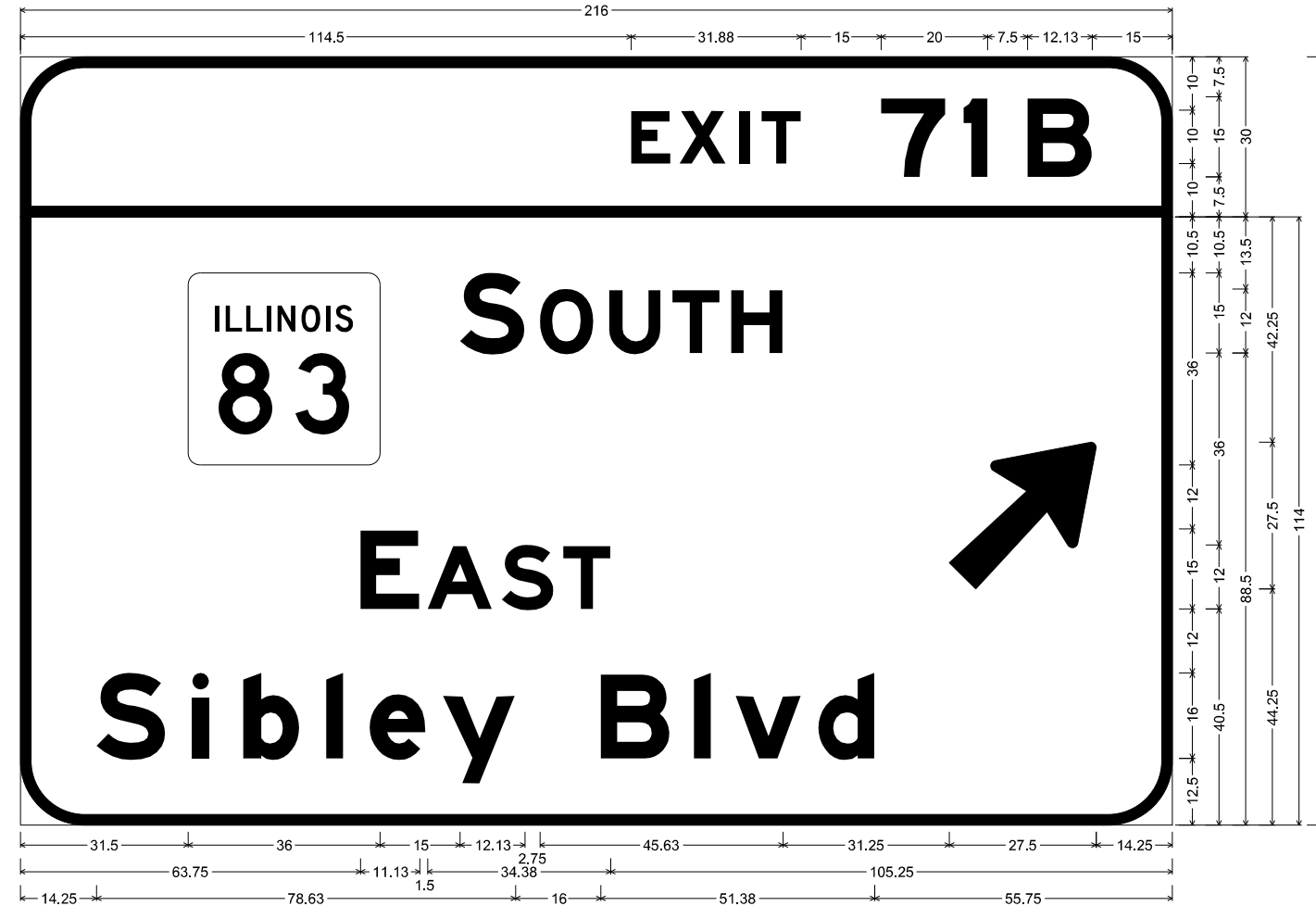
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SIGN PANEL DESIGN  
 LOCATION #V (1 OF 2)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35		COOK	79	43
CONTRACT NO. 46473				
ILLINOIS FED. AID PROJECT				

STRUCTURE NUMBER		1S016I094L071.5-000	
LOCATION		EXPRESSWAY	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	18' X 12'	
MOUNTING / TYPE		OVERHEAD / TRUSS	
MOUNTING LOC (L, M, R)		RIGHT	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
	LEGEND / BORDER	COLOR:	
		TYPE:	ZZ
		COLOR:	WHITE



12.00" Radius, 2.00" Border, White on Green;  
 [EXIT] E Mod 2K 120% spacing; [71] E Mod 2K; [B] E Mod 2K;  
 12.00" Radius, 2.00" Border, White on Green;  
 [SOUTH] E Mod 2K; [EAST] E Mod 2K; [Sibley Blvd] E Mod 2K; Arrow 160 - 35.00" 45°;  
 Table of widths and spaces.

114.50	E	7.50	1.63	X	8.75	2.50	I	2.00	2.13	7	7.38	15.00	12.13	3.38	I	4.50	7.50	B	12.13	15.00										
31.50	63	36.00	15.00	S	12.13	2.75	O	10.13	2.88	U	9.75	2.13	T	8.88	2.13	H	9.75	31.13	27.50	14.38										
63.75	E	11.13	1.50	A	12.13	1.75	S	9.75	1.75	T	8.88	105.38																		
14.25	S	13.00	5.00	i	3.13	6.38	b	10.63	4.88	l	3.25	5.00	e	10.50	3.25	y	13.63	16.00	B	12.88	4.50	i	3.25	4.63	v	12.25	3.25	d	10.50	55.88

MODEL: Default  
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USER NAME = pociechal	DESIGNED - LP	REVISED -
	DRAWN - LP	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - BS	REVISED -
PLOT DATE = 8/16/2018	DATE - 11/03/2017	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SIGN PANEL DESIGN**  
**LOCATION #V (2 OF 2)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35		COOK	79	44
			CONTRACT NO. 46473	
		ILLINOIS	FED. AID PROJECT	

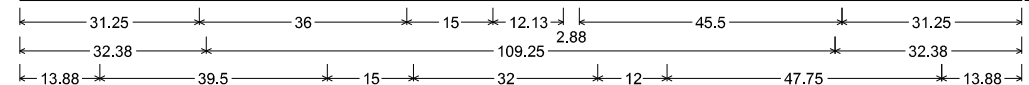
**DETAILS**

"LEFT" PLAQUE DETAIL DESIGN



1.88" Radius, No border, White on Yellow;  
[LEFT] Black E Mod 2K 120% spacing;  
Table of widths and spaces.

L	E	F	T
8.75	8.88	2.38	8.88
3.00	8.88	1.63	8.88
8.75			



12.00" Radius, 2.00" Border, White on Green;  
Rounded Rectangle 1.88" Radius Yellow;  
[EXIT] E Mod 2K 120% spacing; [63] E Mod 2K;  
12.00" Radius, 2.00" Border, White on Green;  
[SOUTH] E Mod 2K; [Memphis] E Mod 2K;  
12.00" Radius, 1.50" Border, 0.50" Indent, Black on Yellow;  
[EXIT] E Mod 2K 140% spacing; Down Arrow 22.00" 270°; [ONLY] E Mod 2K;  
Table of widths and spaces.

15.00	60.00	99.00
29.13	7.38	1.63
8.75	2.50	2.00
2.13	7.38	15.00
12.13	2.25	12.25
71.50		
31.25	36.00	15.00
12.13	2.88	10.00
2.88	9.75	2.13
8.88	2.13	9.75
31.25		
32.38	14.88	4.00
10.50	5.00	17.63
6.38	10.50	5.00
10.63	6.38	3.13
4.63	10.63	32.38
13.88	8.88	2.38
10.38	3.50	2.50
3.00	8.88	15.00
32.00	12.00	10.00
2.88	9.75	3.38
8.88	0.75	12.13
13.88		

STRUCTURE NUMBER		1S016I094L064.3-000
LOCATION		EXPRESSWAY
SIZE (W x H)	EXIT PLAQUE	-
	MAIN PANEL	14.5' X 15'
MOUNTING / TYPE		OVERHEAD / TRUSS
MOUNTING LOC (L, M, R)		LEFT
SHEETING / COLOR	BACKGROUND	TYPE: ZZ
		COLOR: GREEN
		TYPE: ZZ
	LEGEND / BORDER	COLOR: YELLOW
		TYPE: ZZ
		COLOR: WHITE
	TYPE:	
	COLOR:	

\* ARROWS SHALL BE DEMOUNTABLE

MODEL: Default  
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	DRAWN - LP	REVISED -
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PLOT DATE = 8/16/2018	DATE - 11/03/2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

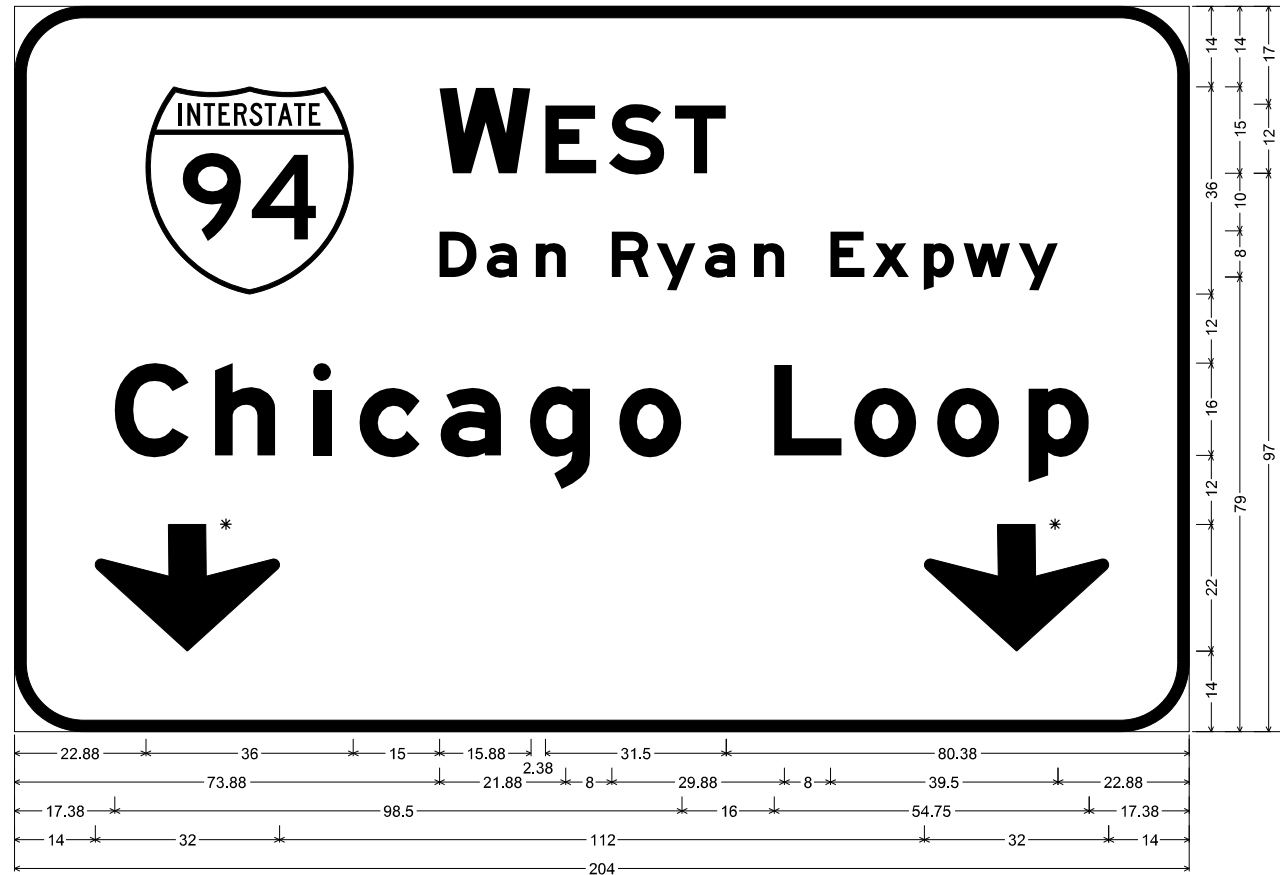
**SIGN PANEL DESIGN  
LOCATION #2 (1 OF 2)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35		COOK	79	45
			CONTRACT NO. 46473	
		ILLINOIS	FED. AID PROJECT	



STRUCTURE NUMBER		1S016I094L064.3-000	
LOCATION		EXPRESSWAY	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	17' X 10.5'	
MOUNTING / TYPE		OVERHEAD / TRUSS	
MOUNTING LOC (L, M, R)		RIGHT	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
	LEGEND / BORDER	TYPE:	ZZ
		COLOR:	WHITE
		TYPE:	



12.00" Radius, 2.00" Border, White on Green;  
 [WEST] E Mod 2K; [Dan Ryan Expwy] E Mod 2K; [Chicago Loop] E Mod 2K; Down Arrow 22.00" 270°; Down Arrow 22.00" 270°;  
 Table of widths and spaces.

22.88	36.00	15.00	15.88	2.38	8.88	2.13	9.75	1.75	9.00	80.38														
73.88	6.38	1.75	5.25	3.25	5.25	8.00	6.50	1.25	6.75	1.63	5.25	3.25	5.25	8.00	6.00	1.38	6.38	2.50	5.25	1.63	8.13	1.50	6.75	22.88
17.38	13.00	4.38	10.63	6.38	3.25	4.88	10.63	3.50	10.50	5.00	10.50	5.00	10.88	16.00	11.88	2.00	10.88	3.63	10.88	4.88	10.63	17.25		
14.00	32.00	112.00	32.00	14.00																				

\* ARROWS SHALL BE DEMOUNTABLE

MODEL: Default  
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USER NAME = pociechal	DESIGNED - LP	REVISED -
DRAWN - LP	REVISED -	
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PLOT DATE = 8/16/2018	DATE - 11/03/2017	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

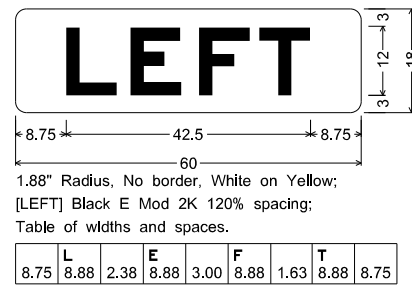
SIGN PANEL DESIGN  
 LOCATION #2 (2 OF 2)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35		COOK	79	46
			CONTRACT NO. 46473	
		ILLINOIS	FED. AID PROJECT	

**DETAILS**

"LEFT" PLAQUE DETAIL DESIGN



12.00" Radius, 2.00" Border, White on Green;  
Rounded Rectangle 1.88" Radius Yellow;  
[EXIT] E Mod 2K 120% spacing; [63] E Mod 2K;  
12.00" Radius, 2.00" Border, White on Green;  
[SOUTH] E Mod 2K; [Memphis] E Mod 2K;  
12.00" Radius, 1.50" Border, 0.50" Indent, Black on Yellow;  
[EXIT] E Mod 2K 140% spacing; Down Arrow 22.00" 270°; [ONLY] E Mod 2K;  
Table of widths and spaces.

15.00	60.00	99.00
29.13	7.38	1.63
31.25	36.00	15.00
32.38	14.88	4.00
13.88	8.88	2.38

E	X	I	T	6	3
7.38	1.63	8.75	2.50	2.00	2.13
7.38	15.00	12.13	2.25	12.25	71.50

S	O	U	T	H
12.13	2.88	10.00	2.88	9.75
2.13	8.88	2.13	8.88	2.13

M	e	m	p	h	i	s
14.88	4.00	10.50	5.00	17.63	6.38	10.50
5.00	6.38	10.50	5.00	10.63	6.38	3.13

E	X	I	T	O	N	L	Y
8.88	2.38	10.38	3.50	2.50	3.00	8.88	15.00
32.00	12.00	10.00	2.88	9.75	3.38	8.88	0.75

STRUCTURE NUMBER		1S016I094L063, 8-000
LOCATION		EXPRESSWAY
SIZE (W x H)	EXIT PLAQUE	-
	MAIN PANEL	14.5' X 15'
MOUNTING / TYPE		OVERHEAD / TRUSS
MOUNTING LOC (L, M, R)		LEFT
SHEETING / COLOR	BACKGROUND	TYPE: ZZ
		COLOR: GREEN
		TYPE: ZZ
	LEGEND / BORDER	COLOR: YELLOW
		TYPE: ZZ
		COLOR: WHITE
	TYPE:	
	COLOR:	

\* ARROWS SHALL BE DEMOUNTABLE

MODEL: Default  
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PLOT DATE = 8/16/2018	DATE - 11/03/2017	REVISED -

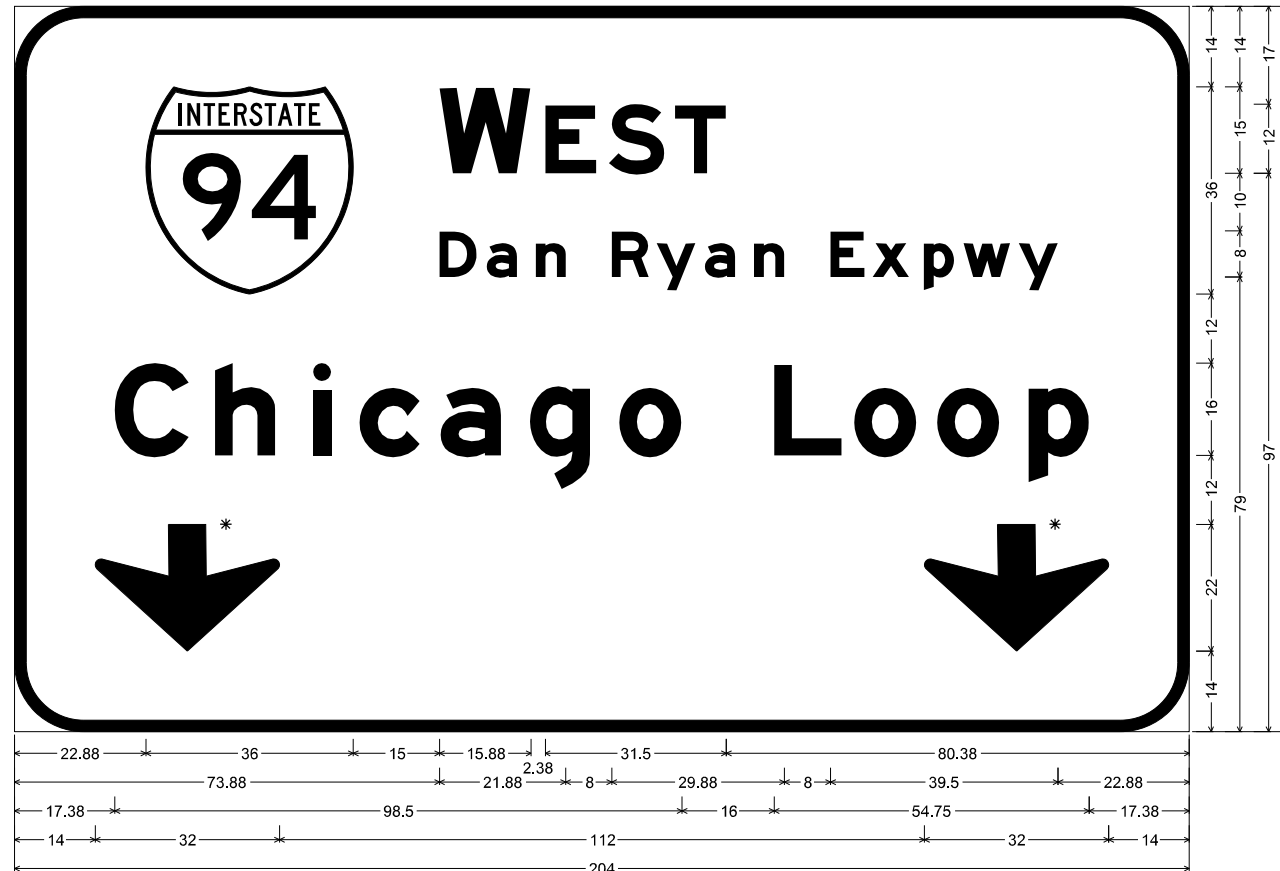
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DESIGN  
LOCATION #3 (1 OF 2)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1	OVD SIN STR REPL 18-35	COOK	79	47
CONTRACT NO. 46473				
ILLINOIS FED. AID PROJECT				

STRUCTURE NUMBER		1S016I094L063.8-000	
LOCATION		EXPRESSWAY	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	17' X 10.5'	
MOUNTING / TYPE		OVERHEAD / TRUSS	
MOUNTING LOC (L, M, R)		RIGHT	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
	LEGEND / BORDER	TYPE:	ZZ
		COLOR:	WHITE
		TYPE:	



12.00" Radius, 2.00" Border, White on Green;  
 [WEST] E Mod 2K; [Dan Ryan Expwy] E Mod 2K; [Chicago Loop] E Mod 2K; Down Arrow 22.00" 270°; Down Arrow 22.00" 270°;  
 Table of widths and spaces.

22.88	36.00	15.00	15.88	2.38	8.88	2.13	9.75	1.75	9.00	80.38														
73.88	6.38	1.75	5.25	3.25	5.25	8.00	6.50	1.25	6.75	1.63	5.25	3.25	5.25	8.00	6.00	1.38	6.38	2.50	5.25	1.63	8.13	1.50	6.75	22.88
17.38	13.00	4.38	10.63	6.38	3.25	4.88	10.63	3.50	10.50	5.00	10.50	5.00	10.88	16.00	11.88	2.00	10.88	3.63	10.88	4.88	10.63	17.25		
14.00	32.00	112.00	32.00	14.00																				

\* ARROWS SHALL BE DEMOUNTABLE

MODEL: Default  
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	DRAWN - LP	REVISED -
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PLOT DATE = 8/16/2018	DATE - 11/03/2017	REVISED -

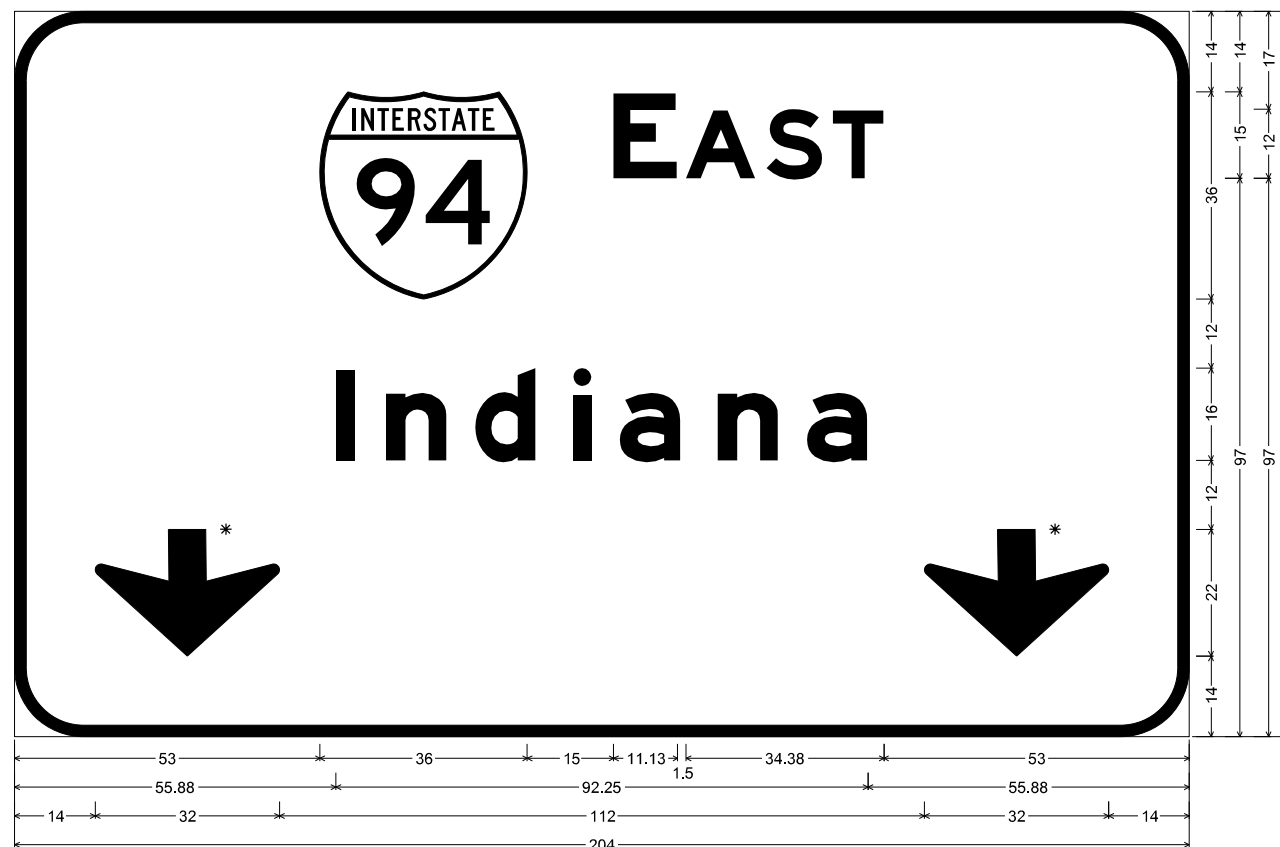
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SIGN PANEL DESIGN**  
**LOCATION #3 (2 OF 2)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D-1 OVD SIN STR REPL 18-35	COOK	79	48
			CONTRACT NO. 46473	
		ILLINOIS	FED. AID PROJECT	

STRUCTURE NUMBER		1S016I094R064.2-000	
LOCATION		EXPRESSWAY	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	17' X 10.5'	
MOUNTING / TYPE		OVERHEAD / TRUSS	
MOUNTING LOC (L, M, R)		LEFT	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
	LEGEND / BORDER	COLOR:	
		TYPE:	ZZ
		COLOR:	WHITE



12.00" Radius, 2.00" Border, White on Green;  
[EAST] E Mod 2K; [Indiana] E Mod 2K; Down Arrow 22.00" 270°; Down Arrow 22.00" 270°;  
Table of widths and spaces.

53.00	36.00	15.00	11.13	1.50	12.13	1.75	9.75	1.75	9.00	53.00				
55.88	3.13	5.50	10.50	5.00	10.50	6.50	3.13	5.00	10.50	6.50	10.50	5.00	10.50	55.88
14.00	32.00	112.00	32.00	14.00										

\* ARROWS SHALL BE DEMOUNTABLE

MODEL: Default  
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USER NAME = pociechal	DESIGNED - LP	REVISED -
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PLOT DATE = 8/16/2018	DATE - 11/03/2017	REVISED -

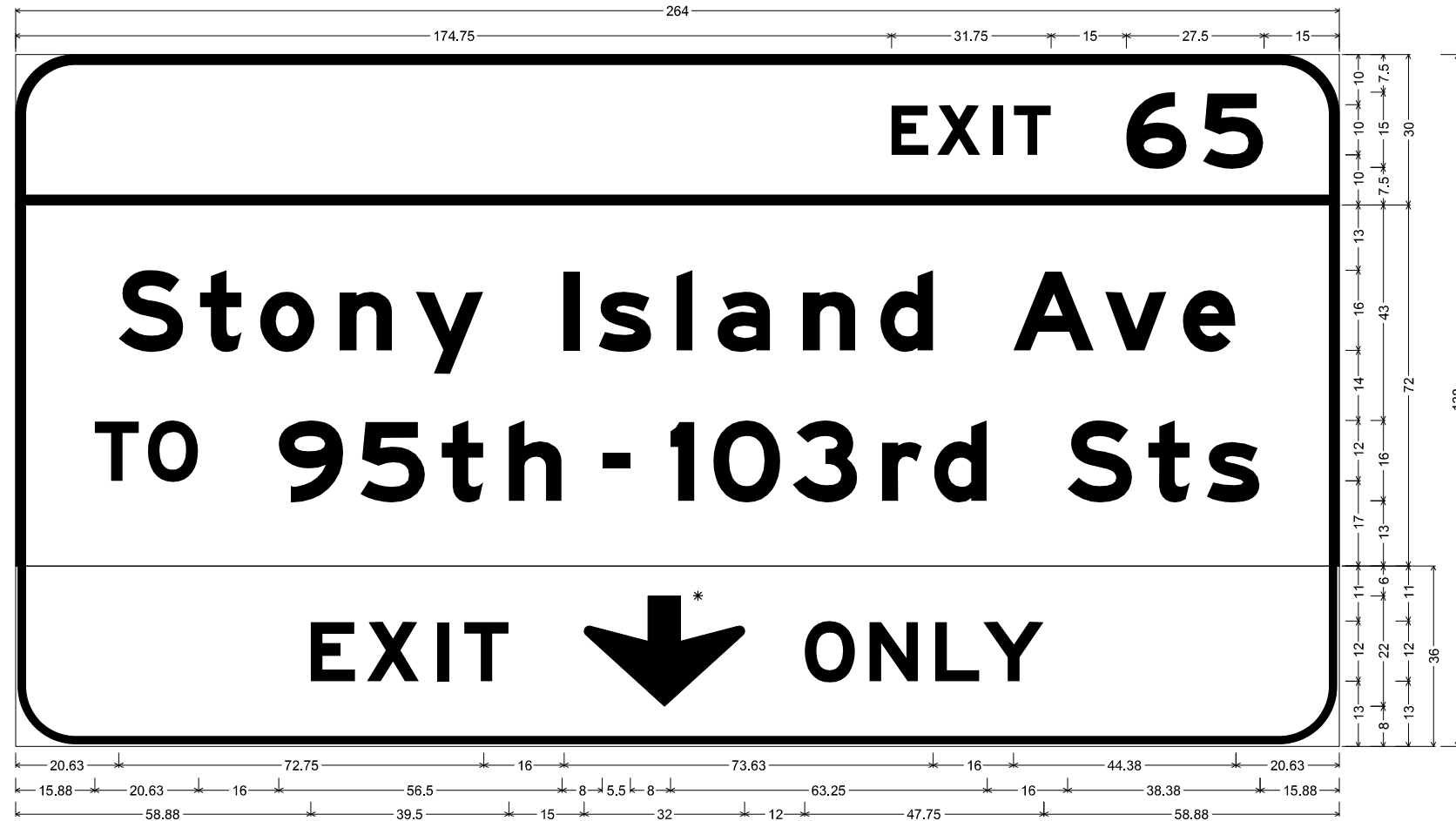
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DESIGN  
LOCATION #4 (1 OF 2)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35		COOK	79	49
			CONTRACT NO. 46473	
		ILLINOIS	FED. AID PROJECT	

STRUCTURE NUMBER		IS016I094R064.2-000	
LOCATION		EXPRESSWAY	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	22' X 11.5'	
MOUNTING / TYPE		OVERHEAD / TRUSS	
MOUNTING LOC (L, M, R)		RIGHT	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	ZZ
		COLOR:	YELLOW
	LEGEND / BORDER	TYPE:	ZZ
		COLOR:	WHITE
		TYPE:	
		COLOR:	



12.00" Radius, 2.00" Border, White on Green;  
 [EXIT] E Mod 2K 120% spacing; [65] E Mod 2K;  
 12.00" Radius, 2.00" Border, White on Green;  
 [Stony Island Ave] E Mod 2K; [TO] E Mod 2K; [95th] E Mod 2K; [-] E Mod 2K; [103rd Sts] E Mod 2K;  
 12.00" Radius, 1.50" Border, 0.50" Indent, Black on Yellow;  
 [EXIT] E Mod 2K 140% spacing; Down Arrow 22.00" 270°; [ONLY] E Mod 2K;  
 Table of widths and spaces.

174.75	E	X	I	T	6	5	15.00	12.13	3.25	12.13	15.00																
20.63	S	t	o	n	y	I	s	a	n	d	A	v	e	20.63													
15.88	T	O	9	S	t	h	-	1	0	3	r	d	S	t	s	15.75											
58.88	E	X	I	T	O	N	L	Y	58.88																		

\* ARROWS SHALL BE DEMOUNTABLE

MODEL: Default  
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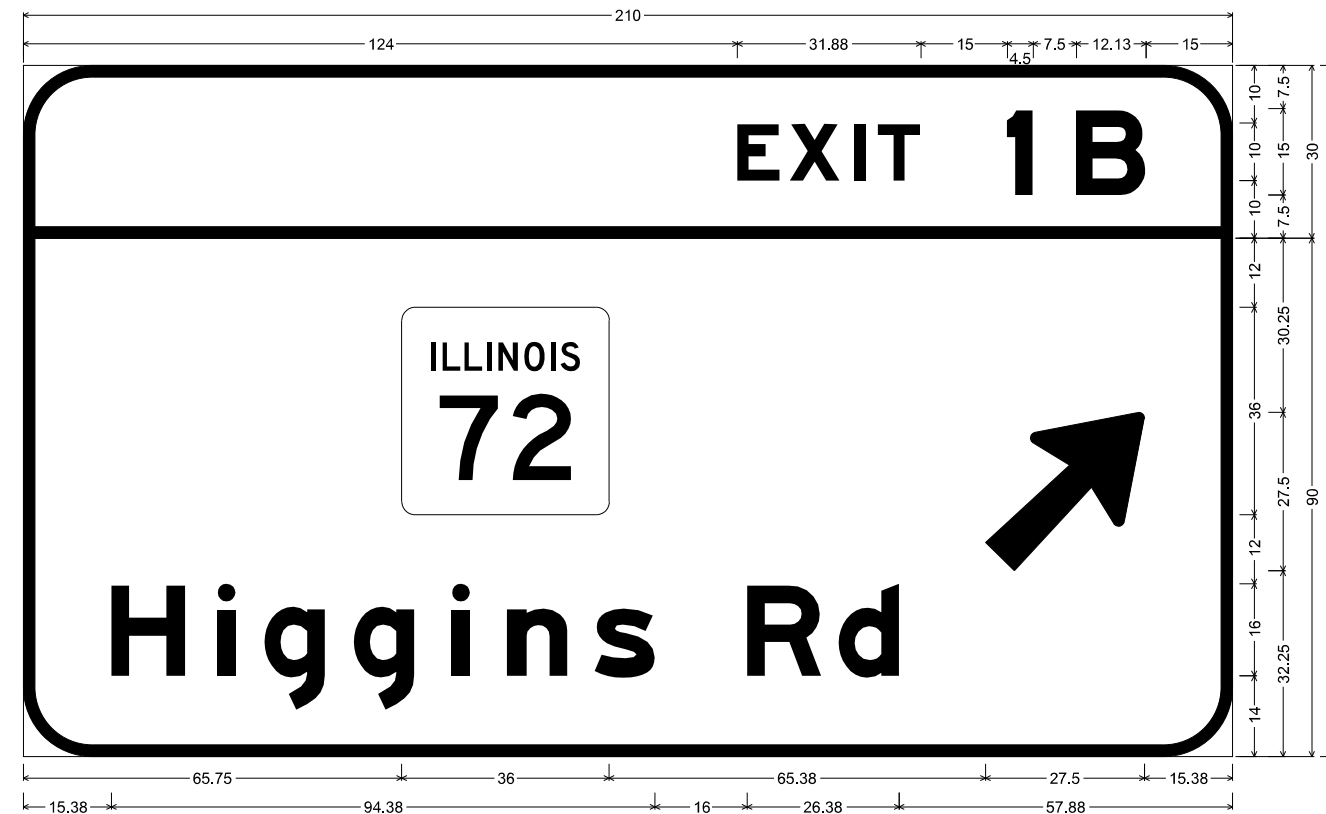
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGN PANEL DESIGN  
LOCATION #4 (2 OF 2)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35		COOK	79	50
CONTRACT NO. 46473				
ILLINOIS		FED. AID PROJECT		

STRUCTURE NUMBER		1C016I290R001.0-000	
LOCATION		EXPRESSWAY	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	17.5' X 10'	
MOUNTING / TYPE		OVERHEAD / CANTILEVER	
MOUNTING LOC (L, M, R)		-	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
	LEGEND / BORDER	COLOR:	
		TYPE:	ZZ
		COLOR:	WHITE



12.00" Radius, 2.00" Border, White on Green;  
 [EXIT] E Mod 2K 120% spacing; [1] E Mod 2K; [B] E Mod 2K;  
 12.00" Radius, 2.00" Border, White on Green;  
 [Higgins Rd] E Mod 2K; Arrow 160 - 35.00" 45°;  
 Table of widths and spaces.

124.00	E	7.38	1.75	X	8.63	2.50	2.00	2.25	T	7.38	15.00	i	4.50	7.50	12.13	15.00											
65.75		36.00			65.38		27.50				15.38																
15.38	H	12.88	5.50	i	3.13	5.00	g	10.63	4.88	g	10.63	6.38	i	3.13	6.50	n	10.50	4.63	s	10.63	16.00	R	12.88	2.88	d	10.63	57.75

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	DRAWN - LP	REVISED -
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PLOT DATE = 8/16/2018	DATE - 11/03/2017	REVISED -

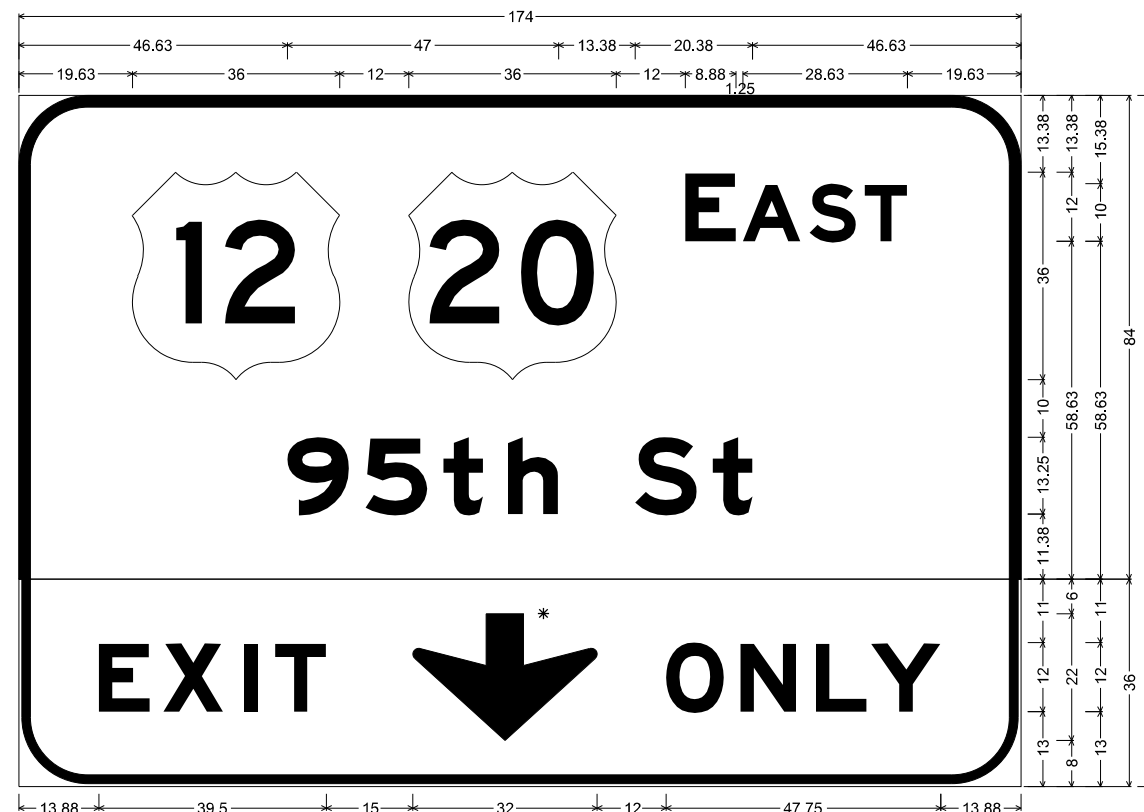
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SIGN PANEL DESIGN**  
**LOCATION #13**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35		COOK	79	51
ILLINOIS FED. AID PROJECT			CONTRACT NO. 46473	

STRUCTURE NUMBER		1C016S043R000.0-001	
LOCATION		ARTERIAL	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	14.5' X 10'	
MOUNTING / TYPE		OVERHEAD / CANTILEVER	
MOUNTING LOC (L, M, R)		RIGHT	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	ZZ
	LEGEND / BORDER	COLOR:	YELLOW
		TYPE:	ZZ
		COLOR:	WHITE
		TYPE:	
		COLOR:	



13.88 39.5 15 32 12 47.75 13.88

12.00" Radius, 2.00" Border, White on Green;  
[EAST] E Mod 2K; [95th St] E Mod 2K;  
12.00" Radius, 1.50" Border, 0.50" Indent, Black on Yellow;  
[EXIT] E Mod 2K 140% spacing; Down Arrow 22.00" 270°; [ONLY] E Mod 2K;  
Table of widths and spaces.

19.63	36.00	12.00	36.00	12.00	E	8.88	1.25	A	10.13	1.50	S	8.00	1.50	T	7.50	19.63											
46.63	9	10.75	2.88	5	10.75	2.63	t	7.00	4.25	h	8.75	13.38	S	10.75	2.75	t	6.88	46.63									
13.88	E	8.88	2.38	X	10.38	3.50	I	2.50	3.00	T	8.88	15.00	↓	32.00	12.00	O	10.00	2.88	N	9.75	3.38	L	8.88	0.75	Y	12.13	13.88

\* ARROWS SHALL BE DEMOUNTABLE

MODEL: Default  
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USER NAME = pociechal	DESIGNED - LP	REVISED -
	DRAWN - LP	REVISED -
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PLOT DATE = 8/16/2018	DATE - 11/03/2017	REVISED -

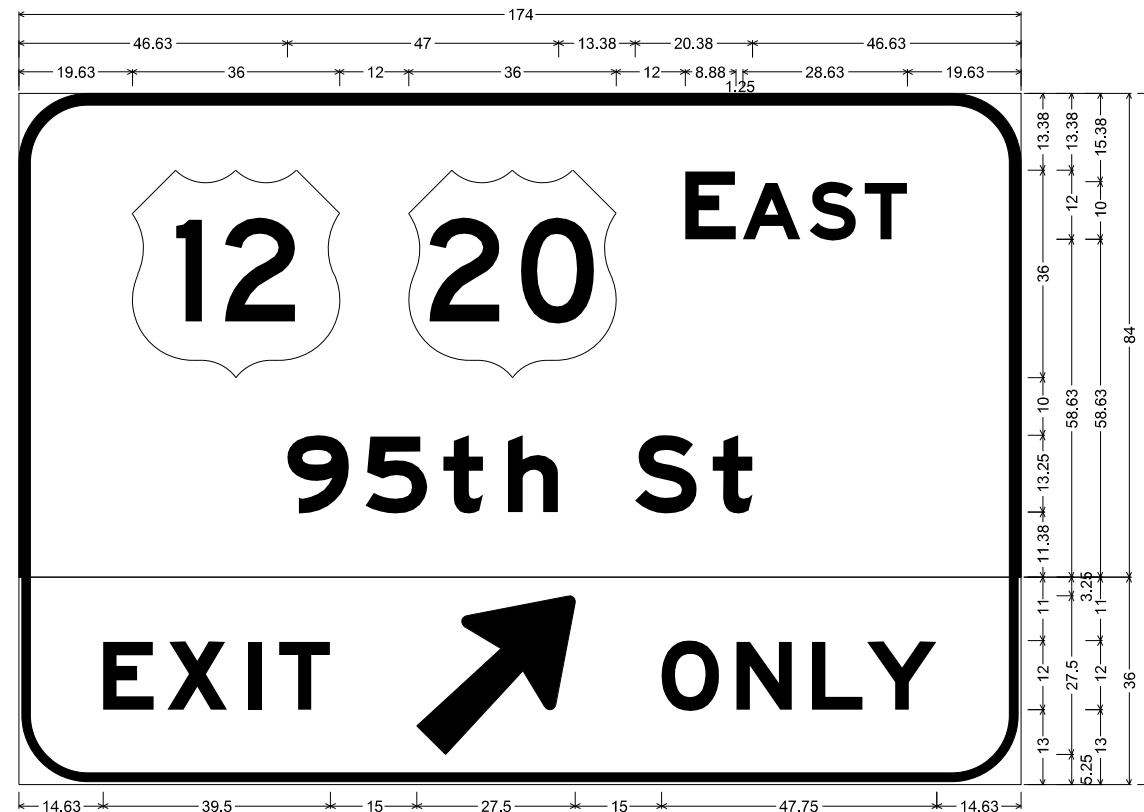
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DESIGN  
LOCATION #18

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35		COOK	79	52
CONTRACT NO. 46473				
ILLINOIS FED. AID PROJECT				

STRUCTURE NUMBER		1C016S043R000.0-002	
LOCATION		ARTERIAL	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	14.5' X 10'	
MOUNTING / TYPE		OVERHEAD / CANTILEVER	
MOUNTING LOC (L, M, R)		-	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	ZZ
	LEGEND / BORDER	COLOR:	YELLOW
		TYPE:	ZZ
		COLOR:	WHITE
	TYPE:		
	COLOR:		



12.00" Radius, 2.00" Border, White on Green;  
[EAST] E Mod 2K; [95th St] E Mod 2K;  
12.00" Radius, 1.50" Border, 0.50" Indent, Black on Yellow;  
[EXIT] E Mod 2K 140% spacing; Arrow 160 - 35.00" 45"; [ONLY] E Mod 2K;  
Table of widths and spaces.

19.63	36.00	12.00	36.00	12.00	E	8.88	1.25	A	10.13	1.50	S	8.00	1.50	T	7.50	19.63											
46.63	9	10.75	2.88	5	10.75	2.63	t	7.00	4.25	h	8.75	13.38	S	10.75	2.75	t	6.88	46.63									
14.63	E	8.88	2.38	X	10.38	3.50	I	2.50	3.00	T	8.88	15.00	↗	27.50	15.00	O	10.00	3.00	N	9.63	3.38	L	8.88	0.75	Y	12.13	14.63

MODEL: Default  
FILE: \\nas01\p04\B84E81D1\TEC\Illinois\gov\PIWDOT\Documents\1\DOT\_Offices\DI\erfct\_1\proj\cctsm6000918\CAD\B84E81D1\Traffic\6000918-2ht-ajm.dgn

<table border="1"> <tr> <td>USER NAME = pociechal</td> <td>DESIGNED - LP</td> <td>REVISED -</td> </tr> <tr> <td>DRAWN - LP</td> <td>REVISED -</td> <td></td> </tr> <tr> <td>PLOT SCALE = 40.0000 ' / in.</td> <td>CHECKED - BS</td> <td>REVISED -</td> </tr> <tr> <td>PLOT DATE = 8/16/2018</td> <td>DATE - 11/03/2017</td> <td>REVISED -</td> </tr> </table>	USER NAME = pociechal	DESIGNED - LP	REVISED -	DRAWN - LP	REVISED -		PLOT SCALE = 40.0000 ' / in.	CHECKED - BS	REVISED -	PLOT DATE = 8/16/2018	DATE - 11/03/2017	REVISED -	<b>STATE OF ILLINOIS  DEPARTMENT OF TRANSPORTATION</b>	<b>SIGN PANEL DESIGN  LOCATION #19</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	USER NAME = pociechal	DESIGNED - LP	REVISED -																
	DRAWN - LP	REVISED -																	
PLOT SCALE = 40.0000 ' / in.	CHECKED - BS	REVISED -																	
PLOT DATE = 8/16/2018	DATE - 11/03/2017	REVISED -																	
	D-1 OVD SIN STR REPL 18-35	COOK	79	53															
CONTRACT NO. 46473																			
SCALE:			SHEET	OF	SHEETS	STA.	TO STA.												
						ILLINOIS	FED. AID PROJECT												



STRUCTURE NUMBER		1C016S043R000.0-000	
LOCATION		ARTERIAL	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	14.5' X 10	
MOUNTING / TYPE		OVERHEAD / CANTILEVER	
MOUNTING LOC (L, M, R)		-	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	ZZ
	LEGEND / BORDER	COLOR:	YELLOW
		TYPE:	ZZ
		COLOR:	WHITE
TYPE:			
COLOR:			



13.88 39.5 15 32 12 47.75 13.88  
 12.00" Radius, 2.00" Border, White on Green;  
 [NORTH] E Mod 2K; [Harlem Ave] E Mod 2K;  
 12.00" Radius, 1.50" Border, 0.50" Indent, Black on Yellow;  
 [EXIT] E Mod 2K 140% spacing; Down Arrow 22.00" 270°; [ONLY] E Mod 2K;  
 Table of widths and spaces.

38.13	36.00	12.00	N	9.75	2.63	O	8.38	2.50	R	8.00	1.13	T	7.38	1.88	H	8.00	38.25									
25.63	H	10.75	3.38	a	8.75	r	6.63	3.25	i	2.63	4.13	e	8.75	4.13	m	13.25	A	13.50	1.75	v	10.25	2.75	e	8.75	25.63	
13.88	E	8.88	2.38	X	10.38	3.50	I	2.50	3.00	8.88	15.00	↓	32.00	12.00	O	10.00	2.88	N	9.75	3.38	L	8.88	0.75	Y	12.13	13.88

\* ARROWS SHALL BE DEMOUNTABLE

MODEL: Default  
 FILE: \\nas01.cpe.uiuc.edu\BID\NTEC\Illinois\gov\PIV\DOT\Documents\1\DOT Office\DI\erict\_1\proj\cts\1460009\18\cadd\at\Traffic\1460009\18-ctc-ajm.dgn

USER NAME = pociechal	DESIGNED - LP	REVISED -
	DRAWN - LP	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - BS	REVISED -
PLOT DATE = 8/16/2018	DATE - 11/03/2017	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

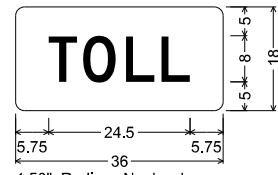
**SIGN PANEL DESIGN  
 LOCATION #20**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35		COOK	79	54
CONTRACT NO. 46473				
ILLINOIS FED. AID PROJECT				

**DETAILS**

"TOLL" PLAQUE DETAIL DESIGN



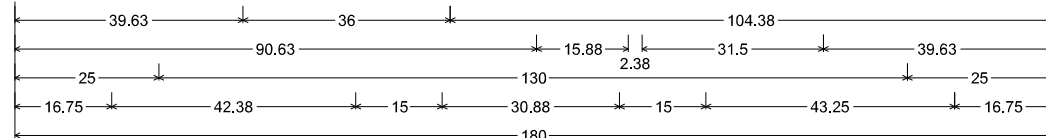
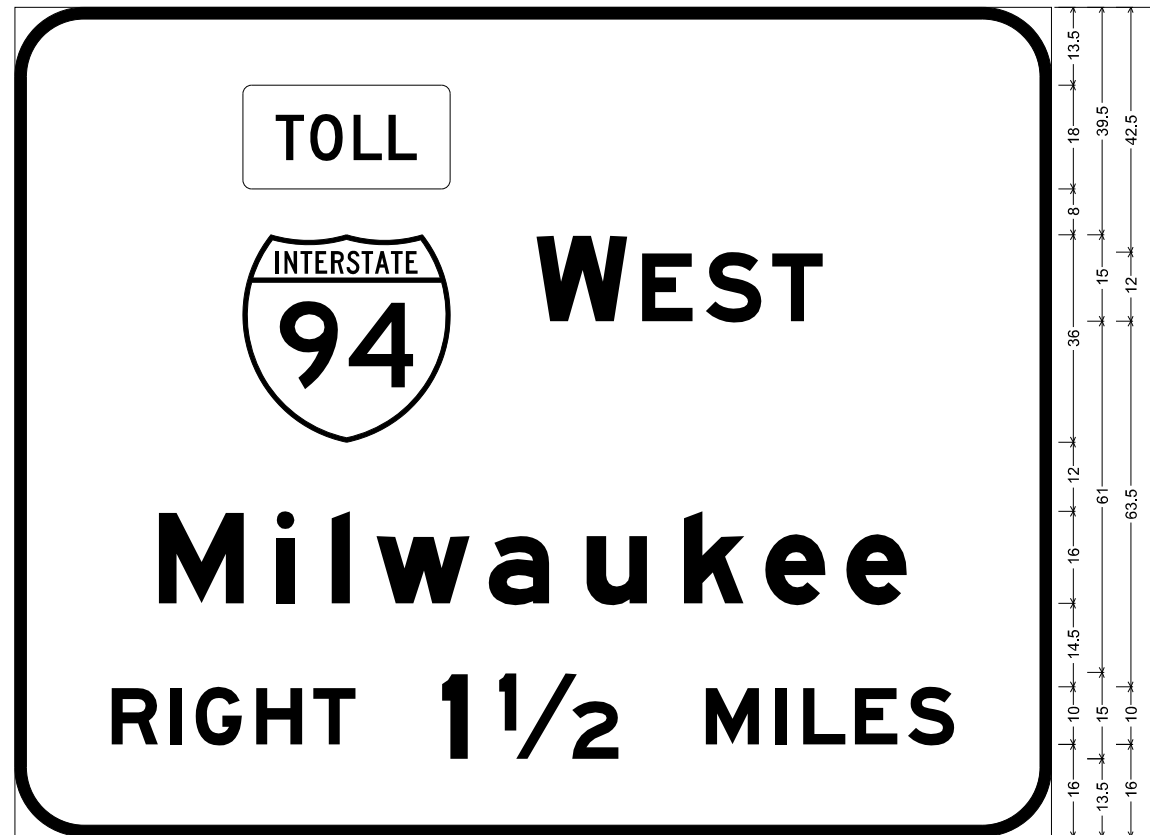
1.50" Radius, No border  
[TOLL] Black D 2K;

Table of widths and spaces.

5.75	T	4.88	1.13	O	5.63	1.75	L	5.00	1.13	L	5.00	5.75
------	---	------	------	---	------	------	---	------	------	---	------	------

STRUCTURE NUMBER		1S016I094L031.6-000	
LOCATION		EXPRESSWAY	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	15' X 12'	
MOUNTING / TYPE		OVERHEAD / TRUSS	
MOUNTING LOC (L, M, R)		LEFT	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
		COLOR:	
LEGEND / BORDER		TYPE:	ZZ
		COLOR:	WHITE
		TYPE:	
		COLOR:	

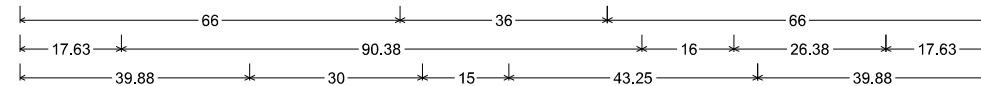
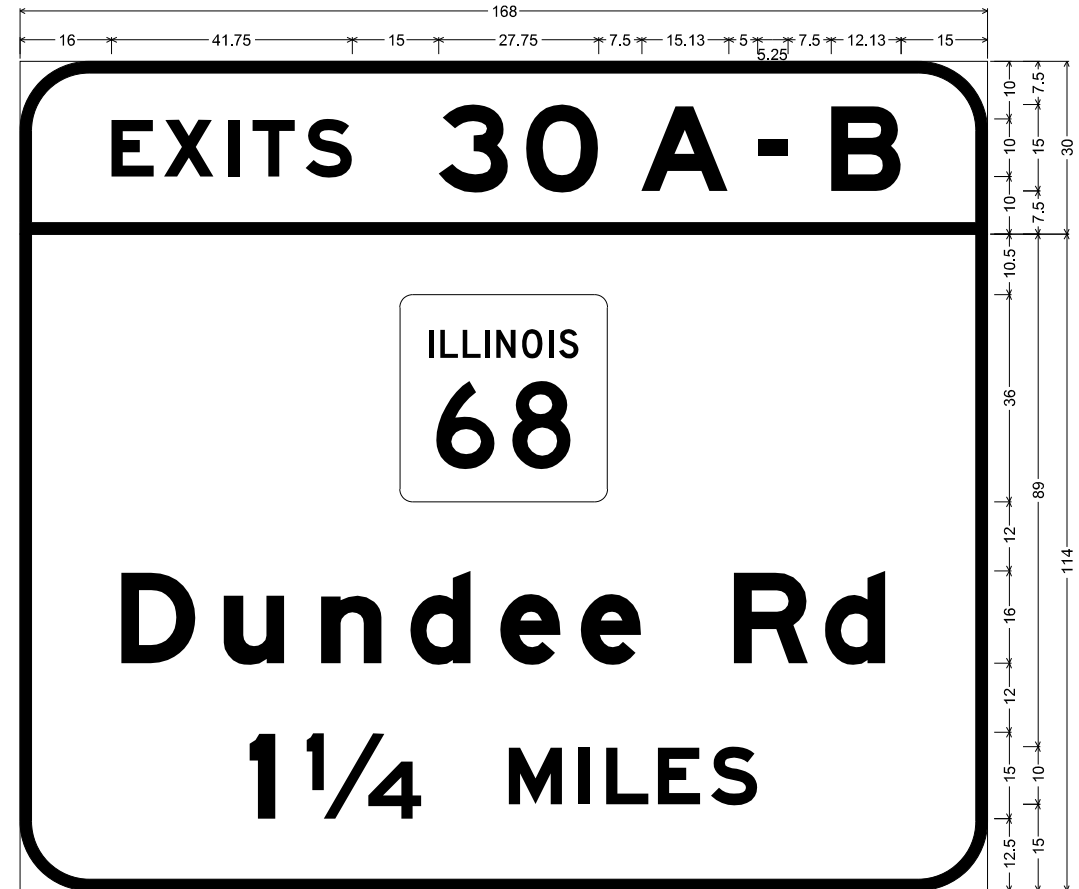
STRUCTURE NUMBER		1S016I094L031.6-000	
LOCATION		EXPRESSWAY	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	14' X 12'	
MOUNTING / TYPE		OVERHEAD / TRUSS	
MOUNTING LOC (L, M, R)		RIGHT	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
		COLOR:	
LEGEND / BORDER		TYPE:	ZZ
		COLOR:	WHITE
		TYPE:	
		COLOR:	



12.00" Radius, 2.00" Border, White on Green;  
Rounded Rectangle 1.50" Radius Yellow;  
[WEST] E Mod 2K; [Milwaukee] E Mod 2K; [RIGHT] E Mod 2K; [1 1/2] E Mod 2K; [MILES] E Mod 2K;

Table of widths and spaces.

39.63	36.00	104.38																									
39.63	36.00	15.00	W	15.88	2.38	E	8.88	2.25	S	9.63	1.88	T	8.88	39.63													
25.00	M	14.88	5.50	I	3.13	6.50	I	3.13	4.63	w	16.38	3.13	a	10.63	6.38	u	10.50	6.50	k	10.50	3.50	e	10.63	3.50	e	10.50	25.13
16.75	R	8.13	2.13	I	2.00	2.38	G	8.13	2.38	H	8.13	1.75	T	7.38	15.00	I	4.50	5.38	1/2	21.00							
		15.00	M	9.25	2.88	I	2.00	2.75	L	7.38	1.63	E	7.38	1.75	S	8.13	16.75										



12.00" Radius, 2.00" Border, White on Green;  
[EXITS] E Mod 2K 120% spacing; [30] E Mod 2K; [A] E Mod 2K; [-] E Mod 2K; [B] E Mod 2K;  
12.00" Radius, 2.00" Border, White on Green;  
[Dundee Rd] E Mod 2K; [1 1/4] E Mod 2K; [MILES] E Mod 2K;

Table of widths and spaces.

16.00	E	7.38	1.63	X	8.75	2.50	I	2.00	2.13	T	7.38	1.88	S	8.00	15.00	3	12.25	3.00	O	12.50	7.50	A	15.25	5.00	-	5.25	7.50	B	12.13	15.00
66.00	36.00	66.00																												
17.63	D	12.88	4.88	u	10.50	6.38	n	10.63	5.00	d	10.50	5.00	e	10.50	3.50	e	10.63	16.00	R	12.88	2.88	d	10.63	17.63						
39.88	I	4.50	5.38	1/4	20.13	15.00	M	9.25	2.88	I	2.00	2.75	L	7.38	1.63	E	7.38	1.88	S	8.00	40.00									

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USER NAME = pociechal	DESIGNED - LP	REVISED -
DRAWN - LP	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - BS	REVISED -
PLOT DATE = 8/16/2018	DATE - 06/25/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SIGN PANEL DESIGN LOCATION #21</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL	18-35	COOK	79	55
				CONTRACT NO. 46473
		ILLINOIS	FED. AID PROJECT	

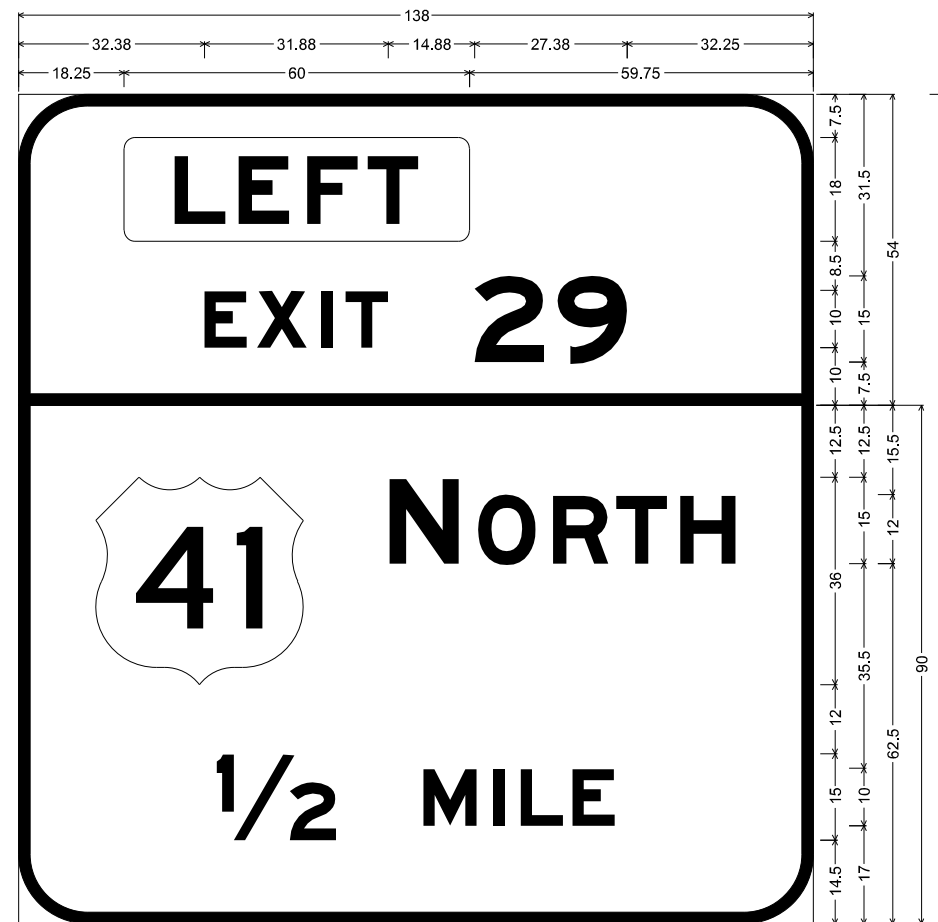
**DETAILS**

"LEFT" PLAQUE DETAIL DESIGN



1.88" Radius, No border, White on Yellow;  
 [LEFT] Black E Mod 2K 120% spacing;  
 Table of widths and spaces.

L	E	F	T
8.75	8.88	2.38	8.88
3.00	8.88	1.63	8.88
8.75			8.75



13.38	36	15	12.25	3.13	44.88	13.38
34.38	20.88	15	33.38	34.38		

12.00" Radius, 2.00" Border, White on Green;  
 Rounded Rectangle 1.88" Radius Yellow;  
 [EXIT] E Mod 2K 120% spacing; [63] E Mod 2K;  
 12.00" Radius, 2.00" Border, White on Green;  
 [NORTH] E Mod 2K; [1/2] E Mod 2K; [MILE] E Mod 2K;  
 Table of widths and spaces.

18.25	60.00	59.75																
32.38	E	7.38	1.63	X	8.75	2.50	I	2.00	2.13	T	7.38	15.00	G	12.13	2.25	3	12.25	32.25
13.38	36.00	15.00	N	12.25	3.13	O	10.13	2.88	R	9.75	1.25	T	8.88	2.25	H	9.63	13.50	
34.38	1/2	20.88	15.00	M	9.38	2.75	I	2.00	2.88	L	7.38	1.63	E	7.38	34.38			

STRUCTURE NUMBER		1S016I094L030.8-000	
LOCATION		EXPRESSWAY	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	11.5' X 12'	
MOUNTING / TYPE		OVERHEAD / TRUSS	
MOUNTING LOC (L, M, R)		LEFT	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
	LEGEND / BORDER	COLOR:	
		TYPE:	ZZ
		COLOR:	WHITE

MODEL: Default  
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USER NAME = poclechal	DESIGNED - LP	REVISED -
	DRAWN - LP	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - BS	REVISED -
PLOT DATE = 8/16/2018	DATE - 06/25/2018	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

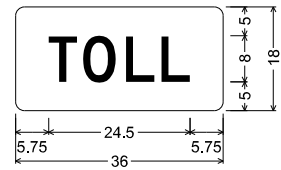
**SIGN PANEL DESIGN  
 LOCATION #22 (1 OF 2)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35		COOK	79	56
CONTRACT NO. 46473				
ILLINOIS		FED. AID PROJECT		

**DETAILS**

"TOLL" PLAQUE DETAIL DESIGN

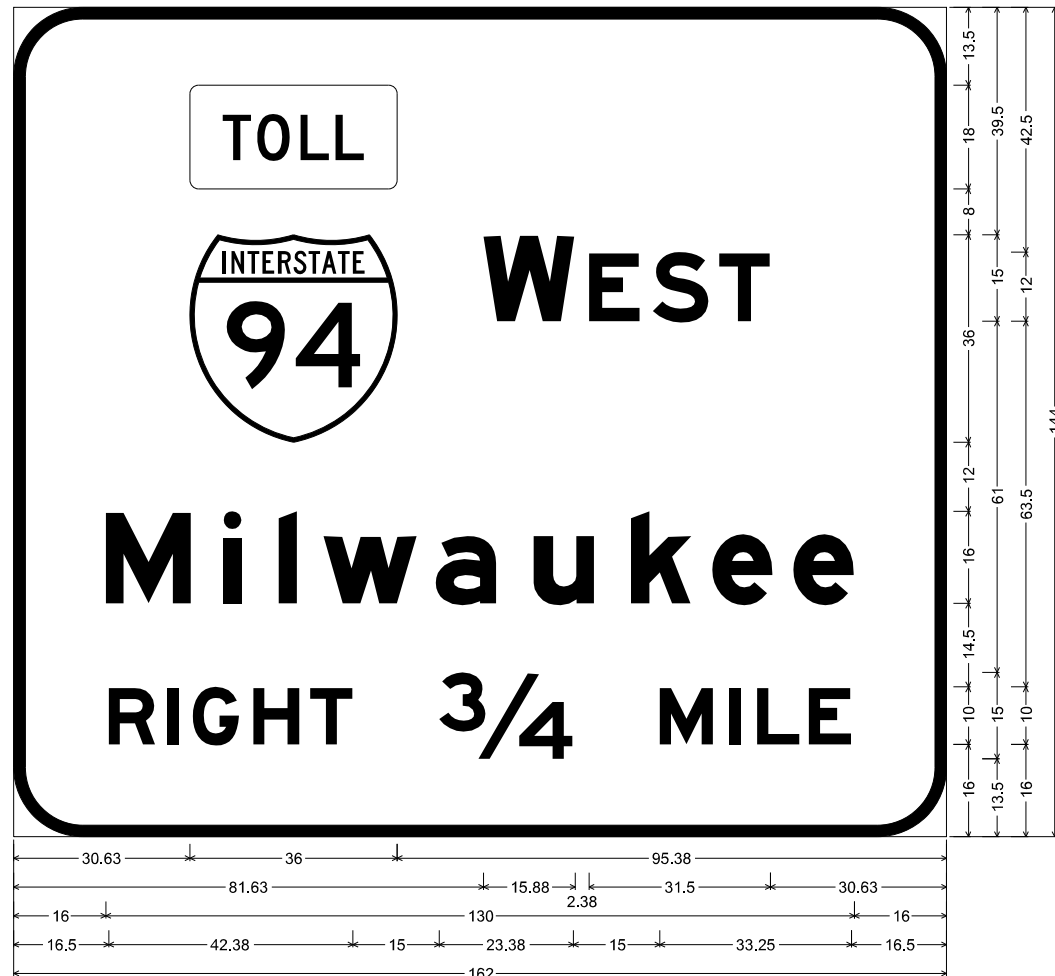


1.50" Radius, No border  
[TOLL] Black D 2K;  
Table of widths and spaces.

T	4.88	1.13	5.63	1.75	5.00	1.13	5.00	5.75
---	------	------	------	------	------	------	------	------

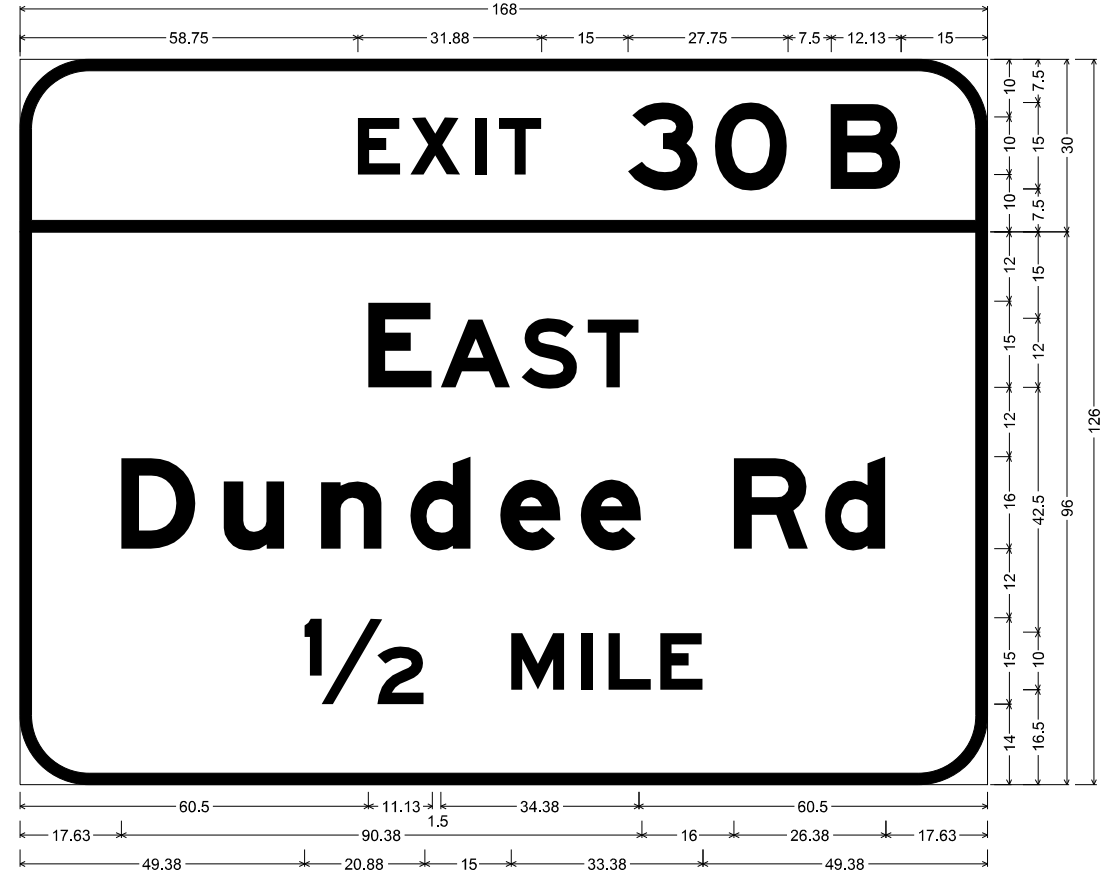
STRUCTURE NUMBER		1S0161094L030.8-000	
LOCATION		EXPRESSWAY	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	13.5' X 12'	
MOUNTING / TYPE		OVERHEAD / TRUSS	
MOUNTING LOC (L, M, R)		MIDDLE	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
	LEGEND / BORDER	TYPE:	ZZ
		COLOR:	WHITE
		TYPE:	

STRUCTURE NUMBER		1S0161094L030.8-000	
LOCATION		EXPRESSWAY	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	14' X 10.5'	
MOUNTING / TYPE		OVERHEAD / TRUSS	
MOUNTING LOC (L, M, R)		RIGHT	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
	LEGEND / BORDER	TYPE:	ZZ
		COLOR:	WHITE
		TYPE:	



12.00" Radius, 2.00" Border, White on Green;  
Rounded Rectangle 1.50" Radius Yellow;  
[WEST] E Mod 2K; [Milwaukee] E Mod 2K; [RIGHT] E Mod 2K; [¾] E Mod 2K; [MILE] E Mod 2K;  
Table of widths and spaces.

30.63	36.00	95.38																											
30.63	36.00	15.00	15.88	2.38	8.88	2.25	9.63	1.88	8.88	30.63																			
16.00	M	14.88	5.50	i	3.13	6.50	i	3.13	4.63	w	16.38	3.13	a	10.63	6.38	u	10.50	6.50	k	10.50	3.50	e	10.63	3.50	e	10.50	16.13		
16.50	R	8.13	2.00	I	2.00	2.38	G	8.13	2.38	H	8.13	1.88	7.38	15.00	¾	23.38	15.00	M	9.25	2.75	I	2.00	2.88	L	7.38	1.63	E	7.38	16.50



12.00" Radius, 2.00" Border, White on Green;  
[EXIT] E Mod 2K 120% spacing; [30] E Mod 2K; [B] E Mod 2K;  
12.00" Radius, 2.00" Border, White on Green;  
[EAST] E Mod 2K; [Dundee Rd] E Mod 2K; [½] E Mod 2K; [MILE] E Mod 2K;  
Table of widths and spaces.

58.75	E	7.38	1.75	X	8.63	2.50	I	2.00	2.25	T	7.38	15.00	3	12.13	3.00	O	12.63	7.50	B	12.13	15.00		
60.50	E	11.13	1.50	A	12.13	1.75	S	9.75	1.75	T	9.00	60.50											
17.63	D	12.88	4.88	u	10.50	6.38	n	10.63	5.00	d	10.50	5.00	e	10.50	3.50	e	10.63	16.00	R	12.88	2.88	10.63	17.63
49.38	½	20.88	15.00	M	9.38	2.75	I	2.00	2.88	L	7.38	1.63	E	7.38	49.38								

MODEL: Default  
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USER NAME = pociechal	DESIGNED - LP	REVISED -
DRAWN - LP	REVISED -	
PLOT SCALE = 40.0000 "/>		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGN PANEL DESIGN  
LOCATION #22 (2 OF 2)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35		COOK	79	57
CONTRACT NO. 46473				
ILLINOIS FED. AID PROJECT				



# SOIL BORING LOG

Date 4/22/16

ROUTE Various DESCRIPTION FAU 1549 (Westbound Illinois 171 at I-294) COOK COUNTY LOGGED BY M. Esposito

SECTION LOCATION Northeast Quarter of, SEC. 34, TWP. 38N, RNG. 12E, 3<sup>rd</sup> PM, Latitude 41°44'49.2036", Longitude -87°50'37.806"

COUNTY Various DRILLING METHOD HSA HAMMER TYPE Auto

STRUCT. NO. 1S016S171L000.0-000	D	B	U	M	Surface Water Elev. NA ft	D	B	U	M
Station	E	L	C	O	Stream Bed Elev. NA ft	E	L	C	O
BORING NO. SBA-1	P	O	S	I	Groundwater Elev.:	P	O	S	I
Station	T	W	S	S	First Encounter 80.0 ft	T	W	S	S
Offset 25.0 ft W of Ex. Foundation	H	S	Qu	T	Upon Completion None ft	H	S	Qu	T
Ground Surface Elev. 90.99 ft	(ft)	(/6")	(tsf)	(%)	After - Hrs. NA ft	(ft)	(/6")	(tsf)	(%)

Dark Brown, Moist SILTY CLAY LOAM (Topsoil) 89.99					Very Stiff to Hard Gray, Moist SILTY CLAY LOAM (continued) 69.49	5			
Very Stiff Brown and Black, Moist to Very Moist SILTY CLAY, trace gravel	3	3.5	17		Note: Benchmark is the NW bolt of existing foundation. Assumed elevation = 100.00' Ground surface at existing foundation = 95.17' End of Boring	8	5.2	18	
Transition to Brown and Gray in color.	3	2.5	26			10	S at	14%	
Medium Stiff, Brown, Very Moist, SILTY LOAM 82.49	1	0.5	25						
Stiff Brown and Gray, Moist to Very Moist SILTY CLAY LOAM	2	1.2							
4 inch sand lens. Medium to coarse grain. 78.49	3	1.8	26						
Very Stiff to Hard Gray, Moist SILTY CLAY LOAM	2	2.7	15						
4 inch sand lens. Medium to coarse grain.	5	B							
	1	3.1	19						
	5	4.5	15						
	9	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, form 137 (Rev. 8-99)



# SOIL BORING LOG

Date 4/25/16

ROUTE Various DESCRIPTION FAU 1549 (Westbound Illinois 171 at I-294) COOK COUNTY LOGGED BY M. Esposito

SECTION LOCATION Northeast Quarter of, SEC. 34, TWP. 38N, RNG. 12E, 3<sup>rd</sup> PM, Latitude 41°44'49.2036", Longitude -87°50'37.806"

COUNTY Various DRILLING METHOD HSA HAMMER TYPE Auto

STRUCT. NO. 1S016S171L000.0-000	D	B	U	M	Surface Water Elev. NA ft	D	B	U	M
Station	E	L	C	O	Stream Bed Elev. NA ft	E	L	C	O
BORING NO. SBA-2	P	W	S	S	Groundwater Elev.:	P	W	S	S
Station	T	W	S	Qu	First Encounter None ft	T	W	S	Qu
Offset 8.0 ft S of Ex. Foundation	H	S	Qu	T	Upon Completion None ft	H	S	Qu	T
Ground Surface Elev. 97.48 ft	(ft)	(/6")	(tsf)	(%)	After - Hrs. NA ft	(ft)	(/6")	(tsf)	(%)

Brown, Moist SILTY CLAY LOAM (Topsoil) 96.48					Very Stiff Gray, Moist SILTY CLAY 75.98	2			
Stiff to Hard Brown, Moist SILTY CLAY LOAM, trace gravel	4	8.7	15		Note: Benchmark is the SE bolt of existing foundation. Assumed elevation = 100.00' Ground surface at existing foundation = 97.21' End of Boring	4	2.3	19	
Transition to Black and Gray in color. Transitions to Gray and Brown in color.	4	2.8	29			5	B		
Very Stiff Gray, Moist SILTY CLAY	4	3.8	19						
Transitions to Black and Gray in color. Transitions to Gray and Brown in color.	7	S at	13.5%						
4 inch sand lens. Medium to coarse grain. 78.49	2	2.1	23						
Very Stiff to Hard Gray, Moist SILTY CLAY LOAM	3	2.7	15						
4 inch sand lens. Medium to coarse grain.	4	B							
	2	3.1	19						
	5	4.5	15						
	9	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, form 137 (Rev. 8-99)

MODEL: Default FILE: \\nas01\B&E\BID\NTEC\Illinois\gov\PIV\DOT\Documents\BID\DOT\_Offices\BID\BID\1\Proj\scs\m60009\18\CD\B&E\Traffic\m60009\18-shc-1.dgn

SOIL BORING OVERHEAD SIGNS\_VARI0US LOCATIONS\_CONTRACT 46385.GPJ\_IL\_DOT.GDT 5/31/16

SOIL BORING OVERHEAD SIGNS\_VARI0US LOCATIONS\_CONTRACT 46385.GPJ\_IL\_DOT.GDT 5/31/16

USER NAME = pociechal	DESIGNED -	REVISED -
DRAWN - BAS	REVISIONS -	
PLOT SCALE = 100,0000' / in.	CHECKED - LP	REVISED -
PLOT DATE = 8/16/2018	DATE - 11/03/17	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS  
(SBA-1 AND SBA-2)

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D-1 OVD SIN STR REPL 18-35	COOK	79	58
CONTRACT NO. 46473				
ILLINOIS FED. AID PROJECT				



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### BORING LOG I290-OSB-01

WEI Job No.: 555-15-06

Client: **Illinois Department of Transportation**  
Project: **Replacement Overhead Sign Structures**  
Location: **Sign F, Outside, WB I-290, Cook Co.**

Datum: NAVD 88  
Elevation: 628.48 ft  
North: 1896316.73 ft  
East: 1121949.12 ft  
Station:  
Offset:

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blow/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blow/6 in)	Qu (tsf)	Moisture Content (%)
	627.3	7-inches ASPHALT over 7-inches CONCRETE --PAVEMENT--								602.0	Medium dense to very dense, gray SILT; DRY to MOIST	11	X	11	4 12 16	3.25 P	14
	626.7	Gray CRUSHED STONE --BASE COURSE--															
	625.2	Very stiff, brown and gray SILTY CLAY LOAM, trace gravel --FILL--	5	X	1	4 6 9	3.50 P	17									
	623.0	Medium dense, brown SANDY GRAVEL and BRICK; DRY --FILL--	5	X	2	7 10 19	NP	8									
	620.5	Medium stiff, brown SILTY CLAY LOAM, trace gravel --FILL--	5	X	3	3 3 2	0.50 P	20									
	620.5	Very stiff to hard, brown to gray SILTY CLAY, trace gravel --FILL--	10	X	4	6 7 10	4.43 B	19									
			10	X	5	4 6 8	3.61 B	19		591.7	Hard, gray SILTY CLAY						
		--3-inch layer of gray fine SAND @ 14.3'; MOIST--	15	X	6	4 7 6	3.28 B	17		588.5	Boring terminated at 40.00 ft	40	X	14	6 9 13	5.82 B	17
			15	X	7	4 5 8	3.94 B	17									
		--4-inch layer gray gravelly coarse SAND @ 19.3'; WET--	20	X	8	5 5 7	3.28 B	19									
			20	X	9	5 8 10	NR										
			25	X	10	5 4 9	3.61 B	15									

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	11-09-2015	Complete Drilling	11-09-2015	While Drilling	▽	19.00 ft	
Drilling Contractor	Wang Testing Services	Drill Rig	D-50 TMR	At Completion of Drilling	▽	DRY	
Driller	R&R	Logger	F. Bozga	Time After Drilling		NA	
Drilling Method	3.25-inch IDA HSA, auto hammer, boring backfilled upon completion			Depth to Water	▽	NA	
				The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			



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### BORING LOG I290-OSB-02

WEI Job No.: 555-15-06

Client: **Illinois Department of Transportation**  
Project: **Replacement Overhead Sign Structures**  
Location: **Sign F, Inside, WB I-290, Cook Co.**

Datum: NAVD 88  
Elevation: 623.68 ft  
North: 1896359.36 ft  
East: 1121943.36 ft  
Station:  
Offset:

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blow/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blow/6 in)	Qu (tsf)	Moisture Content (%)
	622.4	6-inches ASPHALT over 9-inches CONCRETE --PAVEMENT--								596.7	Dense to very dense, gray SILT; DRY to WET	11	X	11	8 13 16	5.49 B	17
	621.7	Gray CRUSHED STONE --BASE COURSE--															
	620.4	Very stiff, brown SILTY CLAY LOAM, trace gravel --FILL--	5	X	1	4 7 7	3.77 B	19									
	619.2	Medium dense, dark brown and black GRAVELLY SAND; DRY --FILL--	5	X	2	15 7 5	NP	10									
	618.2	Stiff to hard, brown SILTY CLAY LOAM, trace gravel --FILL--	5	X	3	2 2 4	1.50 P	21									
	613.2	Very stiff to hard, gray SILTY CLAY, trace gravel --FILL--	10	X	4	5 11 14	4.51 S	18									
			10	X	5	4 7 9	3.77 B	17		588.9	Hard, gray SILTY CLAY, trace gravel						
			15	X	6	4 5 9	3.53 B	17		583.7	Boring terminated at 40.00 ft	40	X	14	16 13 13	5.66 B	16
			20	X	7	3 4 7	3.20 B	17									
			20	X	8	3 5 8	3.20 B	19									
			20	X	9	3 6 10	3.28 B	17									
		--<0.5" interbedded SAND @ 24'-25'	25	X	10	4 6 8	4.10 B	17									

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	11-09-2015	Complete Drilling	11-09-2015	While Drilling	▽	32.00 ft	
Drilling Contractor	Wang Testing Services	Drill Rig	D-50 TMR	At Completion of Drilling	▽	38.00 ft	
Driller	R&R	Logger	F. Bozga	Time After Drilling		NA	
Drilling Method	3.25-inch IDA HSA, auto hammer, boring backfilled upon completion			Depth to Water	▽	NA	
				The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

MODEL: Default  
FILE: \\MAILSrv\pub\BUREAUFID\ITC\Illinois\gov\PIVDOT\Documents\BID\Office\BID\BID\1\Projects\I290\Boring\I290-OSB-01\Boring\I290-OSB-01.dgn

USER NAME	= pociechal	DESIGNED	-	REVISED	-
PLOT SCALE	= 100,0000' / in.	DRAWN	- BAS	REVISED	-
PLOT DATE	= 8/16/2018	CHECKED	- LP	REVISED	-
		DATE	- 11/03/17	REVISED	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS  
(I290-OSB-01 AND I290-OSB-02)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL	18-35	COOK	79	59
CONTRACT NO. 46473				
ILLINOIS / FED. AID PROJECT				



# SOIL BORING LOG

Date 4/21/16

ROUTE Various DESCRIPTION FAI 55 (Southbound I-55 at Illinois 171) COOK COUNTY LOGGED BY M. Esposito

SECTION LOCATION Southeast Quarter of, SEC. 12, TWP. 38N, RNG. 12E, 3<sup>rd</sup> PM, Latitude 41°47'46.23", Longitude -87°49'4.4832"

COUNTY Various DRILLING METHOD HSA HAMMER TYPE Auto

STRUCT. NO.	STATION	DEPTH (ft)	BLOW (6")	UCS (tsf)	MOIST (%)	DESCRIPTION	DEPTH (ft)	BLOW (6")	UCS (tsf)	MOIST (%)
1S016I055L282.6-000						Surface Water Elev. NA ft				
						Stream Bed Elev. NA ft				
SBG-1						Groundwater Elev.: None ft				
						First Encounter None ft				
						Upon Completion None ft				
						After - Hrs. NA ft				
						Ground Surface Elev. 101.58 ft				
						12" Hot Mix Asphalt Shoulder				
						Very Stiff Gray, Moist SILTY CLAY LOAM, trace gravel				
						Medium Dense Light Gray, Moist SAND AND GRAVEL, with cobbles				
						Very Stiff to Hard Gray, Moist SILTY CLAY, trace gravel				
						Hard drilling, grinding. Transition to "with gravel and cobbles"				
						Cont. hard drilling, grinding. No Recovery.				
						Very Stiff to Hard Dark Gray, Moist SILTY CLAY LOAM				
						Encountered cobble.				

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, form 137 (Rev. 8-99)



# SOIL BORING LOG

Date 4/19/16

ROUTE Various DESCRIPTION FAI 55 (Southbound I-55 at Illinois 171) COOK COUNTY LOGGED BY R. Claussen

SECTION LOCATION Southeast Quarter of, SEC. 12, TWP. 38N, RNG. 12E, 3<sup>rd</sup> PM, Latitude 41°47'46.23", Longitude -87°49'4.4832"

COUNTY Various DRILLING METHOD HSA HAMMER TYPE Auto

STRUCT. NO.	STATION	DEPTH (ft)	BLOW (6")	UCS (tsf)	MOIST (%)	DESCRIPTION	DEPTH (ft)	BLOW (6")	UCS (tsf)	MOIST (%)
1S016I055L282.6-000						Surface Water Elev. NA ft				
						Stream Bed Elev. NA ft				
SBG-2						Groundwater Elev.: 85.3 ft				
						First Encounter 85.3 ft				
						Upon Completion None ft				
						After - Hrs. NA ft				
						Ground Surface Elev. 95.31 ft				
						Dark Brown, SILTY CLAY (Topsoil)				
						Soft Brown, Moist SILTY CLAY, trace gravel				
						Dense Light Gray, Moist SAND AND GRAVEL, with limestone fragments				
						Very Stiff to Hard Dark Gray, Moist SILTY CLAY, trace gravel				
						Very Stiff to Hard Brown and Gray, Moist SILTY CLAY LOAM, trace gravel				
						Hard drilling, grinding. Transition to "with gravel and cobbles"				
						Cont. hard drilling, grinding. No Recovery.				
						Very Stiff to Hard Dark Gray, Moist SILTY CLAY LOAM				
						Encountered cobble.				

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, form 137 (Rev. 8-99)

MODEL: Default FILE: \\nas0101\B&E\BIDD\ITC\Illinois\gov\p\BIDD\Documents\BIDD\Office\BIDD\Contract\46385.GPJ\_IL\_DOT.GDT\_5/31/16

SOIL BORING OVERHEAD SIGNS\_VARIATIONS\_LOCATIONS\_CONTRACT 46385.GPJ\_IL\_DOT.GDT\_5/31/16

SOIL BORING OVERHEAD SIGNS\_VARIATIONS\_LOCATIONS\_CONTRACT 46385.GPJ\_IL\_DOT.GDT\_5/31/16

USER NAME = pociechal	DESIGNED -	REVISED -
DRAWN - BAS	REVISIONS -	
PLOT SCALE = 100,0000' / in.	CHECKED - LP	REVISED -
PLOT DATE = 8/16/2018	DATE - 11/03/17	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS  
(SBG-1 AND SBG-2)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D-1 OVD SIN STR REPL 18-35	COOK	79	60
CONTRACT NO. 46473				
ILLINOIS FED. AID PROJECT				



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### BORING LOG I80-OSB-03

WEI Job No.: 555-15-06

Client: **Illinois Department of Transportation**  
Project: **Replacement Overhead Sign Structures**  
Location: **Sign J, Inside, WB I-80, Cook Co.**

Datum: NAVD 88  
Elevation: 696.82 ft  
North: 1781505.19 ft  
East: 1140017.99 ft  
Station:  
Offset:

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blow/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blow/6 in)	Qu (tsf)	Moisture Content (%)
695.5	16-inch thick ASPHALT --PAVEMENT--							671.3	Medium stiff, gray CLAY to SILTY CLAY						
	Very stiff, brown to brown and gray SILTY CLAY to SILTY CLAY LOAM, trace gravel --FILL--	1	X	1	3.25 P	3.25	16			11	X	2	0.82 B	35	
		2	X	2	2.38 B	2.38	17			12	X	2	0.82 B	32	
		3	X	3	3.12 B	3.12	24	665.1	Medium dense, gray SILT to SILTY LOAM; WET						
688.8	Stiff to very stiff, brown and gray to gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	4	X	4	2.30 B	2.30	25			13	X	2	NP	25	
		5	X	5	3.44 B	3.44	26	660.1	Stiff, gray CLAY to SILTY CLAY						
		6	X	6	1.80 B	1.80	29			14	X	4	1.97 B	24	
681.3	Medium stiff, gray SILTY CLAY	7	X	7	0.82 B	0.82	27	656.8	Boring terminated at 40.00 ft						
678.8	Loose, gray SILT to SILTY LOAM; WET	8	X	8	NP	NP	24								
676.3	Very stiff to hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	9	X	9	4.02 B	4.02	26								
		10	X	10	2.62 B	2.62	23								

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	11-18-2015	Complete Drilling	11-18-2015	While Drilling	▽	33.50 ft	
Drilling Contractor	Wang Testing Services	Drill Rig	D-50 TMR	At Completion of Drilling	▽	22.00 ft	
Driller	K&R	Logger	H. Bista	Time After Drilling	NA		
Drilling Method	3.25-inch IDA HSA, auto hammer, boring backfilled upon completion			Depth to Water	▽	NA	
				The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			



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### BORING LOG I80-OSB-04

WEI Job No.: 555-15-06

Client: **Illinois Department of Transportation**  
Project: **Replacement Overhead Sign Structures**  
Location: **Sign J, Outside, EB I-80 Cook Co.**

Datum: NAVD 88  
Elevation: 692.49 ft  
North: 1781414.97 ft  
East: 1140067.24 ft  
Station:  
Offset:

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blow/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blow/6 in)	Qu (tsf)	Moisture Content (%)
692.0	6-inch thick dark brown, SILTY LOAM --TOPSOIL--														
	Stiff to very stiff, brown and gray SILTY CLAY	1	X	1	4.67 B	2.54	22			11	X	2	1.23 B	26	
		2	X	2	2.23 B	1.39	25			12	X	5	2.30 B	21	
687.0	Medium stiff to very stiff, brown to gray CLAY with sand and silt interbeds	3	X	3	3.45 B	2.13	24								
		4	X	4	2.45 B	1.56	26			13	X	3	1.64 B	25	
		5	X	5	2.33 B	0.90	32	655.7	Very stiff, gray SILTY CLAY, trace gravel						
679.5	Medium stiff to stiff, gray SILTY CLAY	6	X	6	3.95 B	1.72	23			14	X	3	1.89 B	24	
674.5	Stiff to very stiff, gray CLAY with sand and silt interbeds	8	X	8	4.57 B	2.87	26	652.5	Boring terminated at 40.00 ft						
		9	X	9	5.45 B	2.95	36								
	--WET--	10	X	10	2.33 B	1.15	35								

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	12-17-2015	Complete Drilling	12-17-2015	While Drilling	▽	20.50 ft	
Drilling Contractor	Wang Testing Services	Drill Rig	D-25 ATV	At Completion of Drilling	▽	38.00 ft	
Driller	R&K	Logger	D. Kolpacki	Time After Drilling	NA		
Drilling Method	2.25-inch IDA HSA, auto hammer, boring backfilled upon completion			Depth to Water	▽	NA	
				The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

MODEL: Default  
FILE: Name: I:\BIDDING\BID\BIDDING\Documents\BIDDING\I80\OSB-03\BoringLog\I80-OSB-03-01.dgn

USER NAME = pociechal	DESIGNED -	REVISED -
	DRAWN - BAS	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - LP	REVISED -
PLOT DATE = 8/16/2018	DATE - 11/03/17	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SOIL BORING LOGS  
(I80-OSB-03 AND I80-OSB-04)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D-1 OVD SIN STR REPL 18-35	COOK	79	61
CONTRACT NO. 46473				
ILLINOIS FED. AID PROJECT				



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**BORING LOG I80-OSB-05**  
WEI Job No.: 555-15-06

Datum: NAVD 88  
Elevation: 697.74 ft  
North: 1779577.21 ft  
East: 1133822.39 ft  
Station:  
Offset:

Client: **Illinois Department of Transportation**  
Project: **Replacement Overhead Sign Structures**  
Location: **Sign K, Outside, WB I-80 Cook Co.**

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blow/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blow/6 in)	Qu (tsf)	Moisture Content (%)
697.53	3-inch thick dark brown SILTY LOAM and gravel --TOPSOIL-- Stiff to very stiff, brown SILTY CLAY, trace gravel --FILL--	5	X	1	3 3 3	2.62 B	22	672.2	Very stiff, gray SILTY CLAY, trace gravel	11	X	11	5 6 9	3.28 B	22
689.7	Stiff to very stiff, brown and gray SILTY CLAY --NATURAL--	10	X	4	5 4 3	1.89 B	25	669.7	Very stiff, gray CLAY, trace gravel	30	X	12	4 7 9	2.71 B	22
684.7	Stiff to very stiff, gray CLAY	15	X	6	4 7 8	3.77 B	24			40	X	14	5 7 8	2.05 B	24
679.7	Medium stiff, gray CLAY, interbedded thinly laminated SILT and SAND; WET	20	X	8	2 2 2	0.57 B	28								
677.2	Loose, gray coarse SAND, trace gravel; SATURATED	22	X	9	5 5 5	1.50 P	22								
675.7	Stiff, gray SILTY CLAY	24	X	10	2 4 4	NP	20								
674.7	Loose, brownish gray SILTY LOAM, trace gravel; WET	25	X	10	2 4 4	NP	20								
								657.7	Boring terminated at 40.00 ft						

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	11-09-2015	Complete Drilling	11-09-2015	While Drilling	▽	20.50 ft	
Drilling Contractor	Wang Testing Services	Drill Rig	D-25 ATV	At Completion of Drilling	▽	20.50 ft	
Driller	N&K	Logger	D. Kolpacki	Time After Drilling	NA		
Checked by	ATT	Drilling Method	2.25-inch IDA HSA, auto hammer, boring backfilled upon completion	Depth to Water	▽	NA	
				The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

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**BORING LOG I80-OSB-06**  
WEI Job No.: 555-15-06

Datum: NAVD 88  
Elevation: 700.05 ft  
North: 1779470.57 ft  
East: 1133822.79 ft  
Station:  
Offset:

Client: **Illinois Department of Transportation**  
Project: **Replacement Overhead Sign Structures**  
Location: **Sign K, Inside, EB I-80, Cook Co.**

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blow/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blow/6 in)	Qu (tsf)	Moisture Content (%)
698.7	16-inch thick ASPHALT --PAVEMENT--							672.0	--Laminated SILT @ 26--	11	X	11	0 0 0	0.41 B	29
698.0	Brown and gray SANDY GRAVEL; WET --BASE COURSE-- Stiff to hard, brown and gray SILTY CLAY to SILTY CLAY LOAM, trace gravel --FILL--	5	X	1	5 5 5	2.50 P	19	672.0	Medium dense, brown and gray coarse SAND with gravel; WET	30	X	12	3 4 7	NP	12
689.5	Stiff, brown and gray SILTY CLAY, trace gravel	10	X	5	4 8 11	5.66 B	20	668.3	Very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	35	X	13	4 9 12	3.94 B	20
687.0	Soft to very stiff, gray CLAY to SILTY CLAY	15	X	6	2 1 2	0.49 B	37			40	X	14	5 6 8	2.05 B	23
								660.0	Boring terminated at 40.00 ft						

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	11-19-2015	Complete Drilling	11-19-2015	While Drilling	▽	28.00 ft	
Drilling Contractor	Wang Testing Services	Drill Rig	D-50 TMR	At Completion of Drilling	▽	4.00 ft	
Driller	K&R	Logger	H. Bista	Time After Drilling	NA		
Checked by	ATT	Drilling Method	3.25-inch IDA HSA, auto hammer, boring backfilled upon completion	Depth to Water	▽	NA	
				The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

MODEL: Default  
FILE: \\MAILSrv\pub\BIDD\BIDD\ITC\Illinois\gov\p\W\DOT\Documents\BIDD\Office\BIDD\Traf\K\I8000918-oh-14.dgn  
WANGENG\INC\_5551506.GPJ WANGENG.GDT 12/30/15

USER NAME = pociechal	DESIGNED -	REVISED -
DRAWN - BAS	REVISED -	
PLOT SCALE = 100,0000' / in.	CHECKED - LP	REVISED -
PLOT DATE = 8/16/2018	DATE - 11/03/17	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SOIL BORING LOGS (I80-OSB-05 AND I80-OSB-06)			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D-1 OVD SIN STR REPL 18-35	COOK	79	62
CONTRACT NO. 46473				
ILLINOIS / FED. AID PROJECT				



wangeng@wangeng.com  
1145 North Main Street  
Lombard, IL  
Telephone: 630-953-9928  
Fax: 630-953-9938

### BORING LOG I80-OSB-01

Page 1 of 1

WEI Job No.: 555-15-06

Client: **Illinois Department of Transportation**  
Project: **Replacement Overhead Sign Structures**  
Location: **Sign L, Outside, WB I-80, Cook Co.**

Datum: NAVD 88  
Elevation: 684.03 ft  
North: 1786273.70 ft  
East: 1147715.01 ft  
Station:  
Offset:

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	683.0	Brown SILTY CLAY LOAM, trace gravel															
		--FILL--															
		Hard, brown to gray SILTY CLAY LOAM, trace gravel															
		--NATURAL--															
			5	X	1	6 8 12	6.07 B	17				30	X	11	4 6 9	2.54 B	20
				X	2	4 5 7	4.02 B	16					X	12	3 6 9	2.87 B	20
	678.5	Stiff to very stiff, gray SILTY CLAY, trace gravel		X	3	4 4 5	1.72 B	17					X	13	6 9 11	2.46 B	23
			10	X	4	5 6 7	1.72 B	17					X	14	5 7 11	2.30 B	19
				X	5	6 8 4	1.48 B	17					X	15	6 7 11	3.20 B	16
			15	X	6	6 5 3	3.20 B	16		644.0	Boring terminated at 40.00 ft	40	X	10	4 6 11	3.28 B	19
	668.5	Very stiff to hard, gray CLAY, trace gravel		X	7	5 7 11	4.18 B	19					X	8	3 4 7	2.87 B	15
			20	X	9	6 5 3	2.87 B	21					X	9	3 5 7	2.05 B	17
				X	10	6 8 4	2.54 B	21					X	10	3 4 8	1.64 B	15
			25	X									X				

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	11-09-2015	Complete Drilling	11-09-2015	While Drilling	▽	DRY	
Drilling Contractor	Wang Testing Services	Drill Rig	D-25 ATV	At Completion of Drilling	▽	DRY	
Driller	N&K	Logger	D. Kolpacki	Time After Drilling	NA		
Checked by	ATT	Drilling Method	2.25-inch IDA HSA, auto hammer, boring backfilled upon completion	Depth to Water	▽	NA	
				The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			



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### BORING LOG I80-OSB-02

Page 1 of 1

WEI Job No.: 555-15-06

Client: **Illinois Department of Transportation**  
Project: **Replacement Overhead Sign Structures**  
Location: **Sign L, Inside, WB I-80, Cook Co.**

Datum: NAVD 88  
Elevation: 688.51 ft  
North: 1786202.00 ft  
East: 1147757.24 ft  
Station:  
Offset:

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		17-inch thick ASPHALT															
		--PAVEMENT--															
	687.1	Very stiff to hard, brown SILTY CLAY to SILTY CLAY LOAM, trace to little gravel		X	1	5 4 5	3.50 P	17					X	11	4 7 10	3.28 B	19
		--FILL--		X	2	4 6 7	5.33 B	21		660.5	Stiff to very stiff, gray CLAY to SILTY CLAY, trace gravel		X	12	3 5 7	1.97 B	21
			5	X	3	5 6 10	3.69 B	17					X	13	3 4 7	2.05 B	21
	683.0	Very stiff to hard, brown and gray to gray SILTY CLAY to SILTY CLAY LOAM, trace gravel		X	4	3 4 6	5.33 B	18					X	14	3 6 9	2.21 B	21
			10	X	5	6 8 3	4.92 S	17					X				
				X	6	3 5 6	3.53 B	17		648.5	Boring terminated at 40.00 ft	40	X				
			15	X	7	3 3 6	2.87 B	17					X				
				X	8	3 4 7	2.87 B	15					X				
			20	X	9	3 5 7	2.05 B	17					X				
				X	10	3 4 8	1.64 B	15					X				
			25	X									X				

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	11-18-2015	Complete Drilling	11-18-2015	While Drilling	▽	DRY	
Drilling Contractor	Wang Testing Services	Drill Rig	D-50 TMR	At Completion of Drilling	▽	DRY	
Driller	K&R	Logger	H. Bista	Time After Drilling	NA		
Checked by	ATT	Drilling Method	3.25-inch IDA HSA, auto hammer, boring backfilled upon completion	Depth to Water	▽	NA	
				The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

MODEL: Default  
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USER NAME = pociechal	DESIGNED -	REVISED -
DRAWN - BAS	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - LP	REVISED -
PLOT DATE = 8/16/2018	DATE - 11/03/17	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS  
(I80-OSB-01 AND I80-OSB-02)

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D-1 OVD SIN STR REPL 18-35	COOK	79	63
CONTRACT NO. 46473				
ILLINOIS	FED. AID PROJECT			

SCALE: SHEET OF SHEETS STA. TO STA.

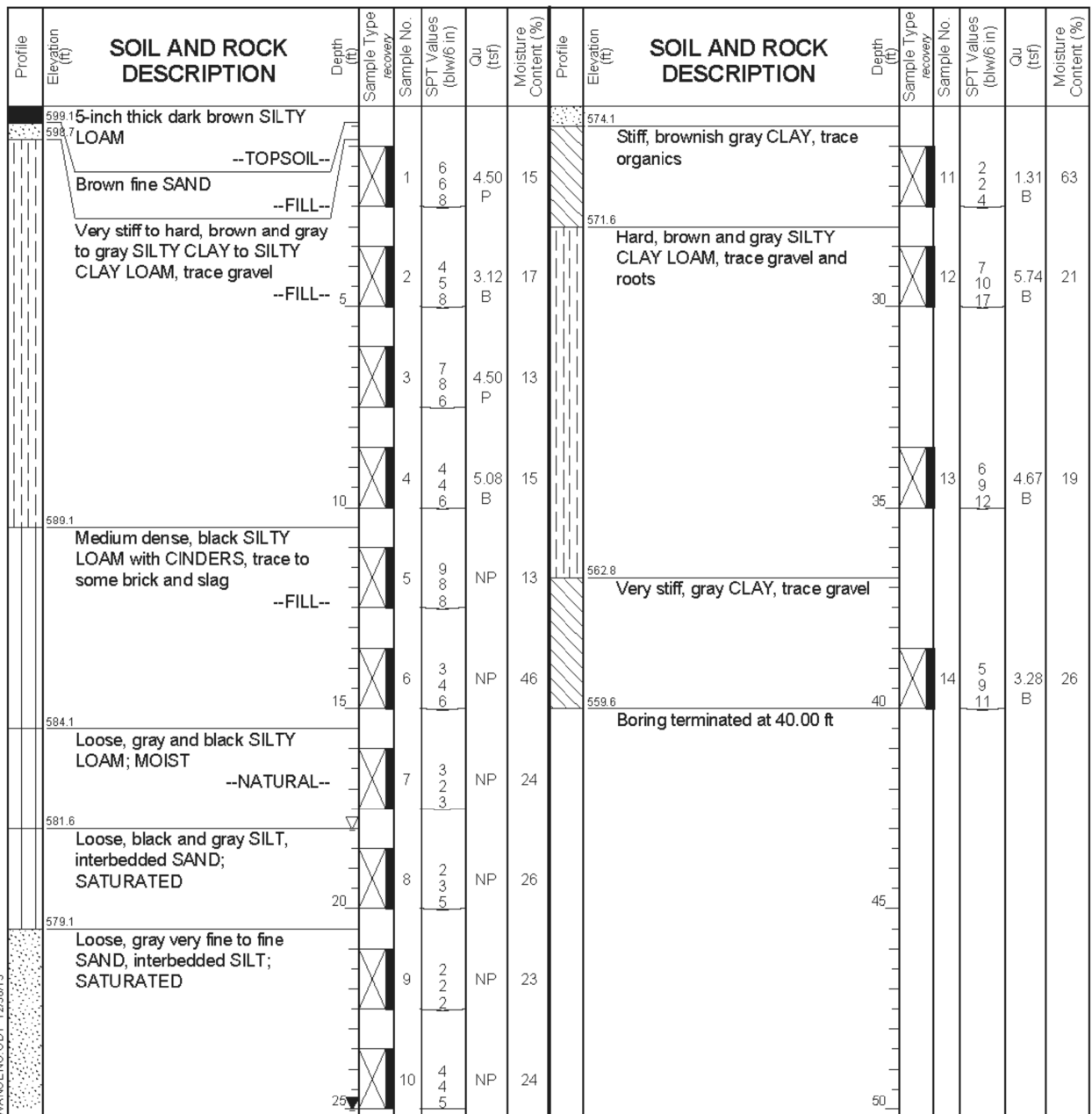
**Wang Engineering**  
 wangeng@wangeng.com  
 1145 North Main Street  
 Lombard, IL  
 Telephone: 630-953-9928  
 Fax: 630-953-9938

**BORING LOG I55-OSB-01**  
 WEI Job No.: 555-15-06

Datum: NAVD 88  
 Elevation: 599.56 ft  
 North: 188844.66 ft  
 East: 1175524.37 ft  
 Station:  
 Offset:

Client: **Illinois Department of Transportation**  
 Project: **Replacement Overhead Sign Structures**  
 Location: **Sign O, Outside, WB I-55, Cook Co.**

Page 1 of 1



GENERAL NOTES			WATER LEVEL DATA			
Begin Drilling	11-13-2015	Complete Drilling	11-13-2015	While Drilling	▽ 18.00 ft	
Drilling Contractor	Wang Testing Services	Drill Rig	D-25 ATV	At Completion of Drilling	▽ 25.00 ft	
Driller	N&K	Logger	D. Kolpacki	Time After Drilling	NA	
Drilling Method	2.25-inch IDA HSA, auto hammer, boring backfilled upon completion		Checked by	ATT	Depth to Water	▽ NA
			The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

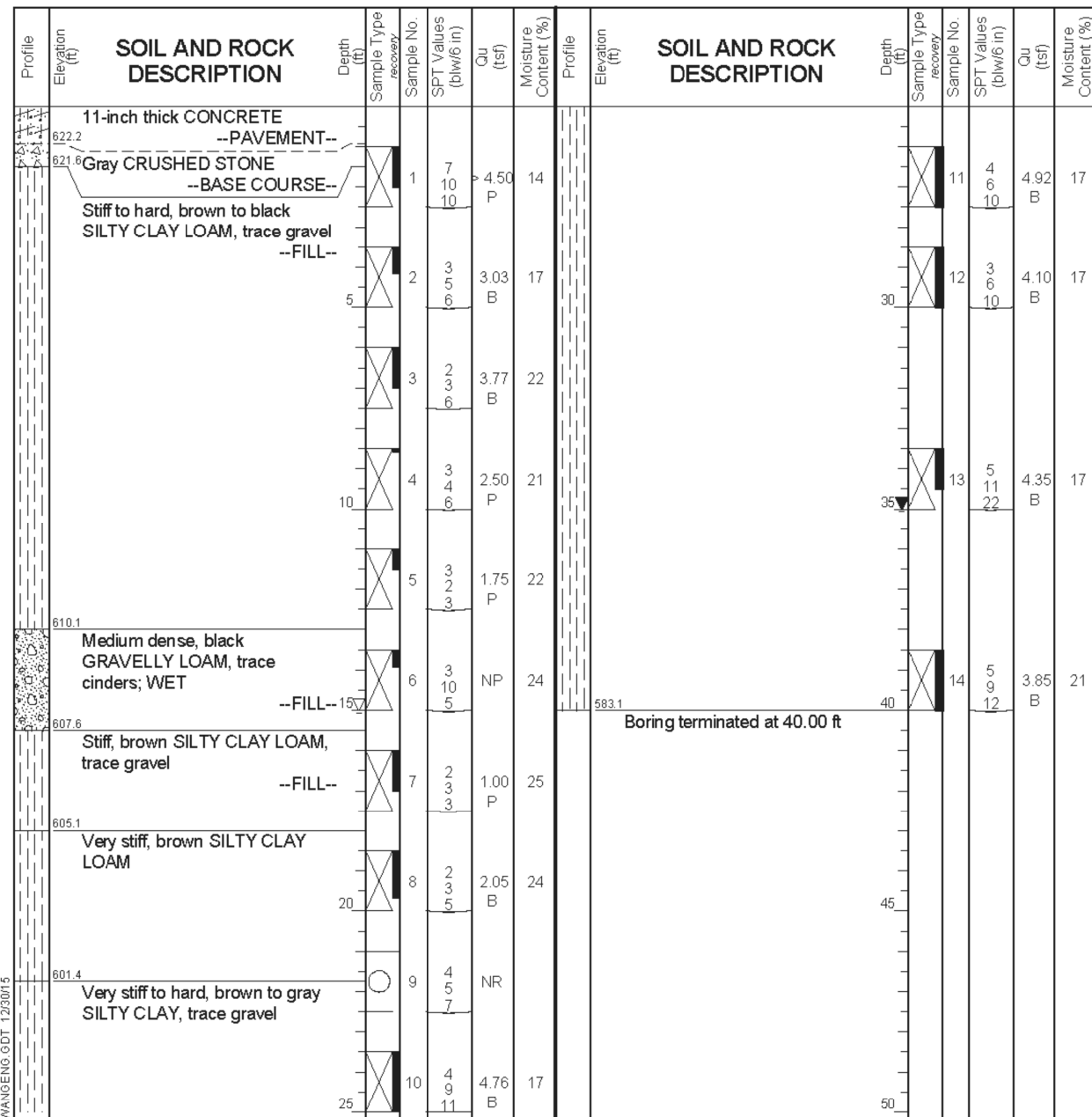
**Wang Engineering**  
 wangeng@wangeng.com  
 1145 North Main Street  
 Lombard, IL  
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 Fax: 630-953-9938

**BORING LOG I290-OSB-03**  
 WEI Job No.: 555-15-06

Datum: NAVD 88  
 Elevation: 623.13 ft  
 North: 1896107.39 ft  
 East: 1138789.14 ft  
 Station:  
 Offset:

Client: **Illinois Department of Transportation**  
 Project: **Replacement Overhead Sign Structures**  
 Location: **Sign S, Inside, EB I-290, Cook Co.**

Page 1 of 1



GENERAL NOTES			WATER LEVEL DATA			
Begin Drilling	11-08-2015	Complete Drilling	11-08-2015	While Drilling	▽ 15.00 ft	
Drilling Contractor	Wang Testing Services	Drill Rig	D-50 TMR	At Completion of Drilling	▽ 35.00 ft	
Driller	R&R	Logger	F. Bozga	Time After Drilling	NA	
Drilling Method	3.25-inch IDA HSA, auto hammer, boring backfilled upon completion		Checked by	ATT	Depth to Water	▽ NA
			The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

MODEL: Default  
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 WANGENG\5551506.GPJ WANGENG.GDT 12/20/15

USER NAME = pociechal	DESIGNED -	REVISED -
	DRAWN - BAS	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - LP	REVISED -
PLOT DATE = 8/16/2018	DATE - 11/03/17	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>SOIL BORING LOGS</b>			
<b>(I55-OSB-01 AND I290-OSB-03)</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D-1 OVD SIN STR REPL 18-35	COOK	79	64
CONTRACT NO. 46473				
ILLINOIS / FED. AID PROJECT				



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**BORING LOG I94-OSB-04**  
 WEI Job No.: 555-15-06

Datum: NAVD 88  
 Elevation: 598.58 ft  
 North: 1799129.09 ft  
 East: 1189364.14 ft  
 Station:  
 Offset:

Client: **Illinois Department of Transportation**  
 Project: **Replacement Overhead Sign Structures**  
 Location: **Sign U, Inside, SB I-94, Cook Co.**

Page 1 of 1

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	597.3	6-inches ASPHALT over 10-inches CONCRETE --PAVEMENT--								573.1	Medium stiff, gray SILTY CLAY LOAM, trace gravel						
	595.3	Medium dense, brown medium SAND, trace gravel and slag; DRY	1	X	1	5 0 8	NP			570.6	Stiff to hard, gray SILTY CLAY, trace gravel	11	X	2 3 4	0.74 B	16	
	593.1	Hard, brown and black SILTY CLAY LOAM, trace gravel	5	X	2	8 0 4	4.00 P	20				30	X	2 4 5	1.15 B	20	
	593.1	Stiff to hard, brown SILTY CLAY	3	X	3	6 0 4	6.07 B	19				35	X	3 6 9	2.79 B	17	
	588.1	Medium dense, brown to gray SILT; MOIST	5	X	5	10 10 10	NP	21				40	X	6 10 13	5.58 B	15	
	583.1	Soft to medium stiff, gray SILTY CLAY	7	X	7	2 2 2	0.28 B	30		558.6	Boring terminated at 40.00 ft						
			8	X	8	2 2 2	0.28 B	23									
			9	X	9	2 2 2	0.82 B	26									
			10	X	10	2 2 2	0.74 B	33									

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	11-10-2015	Complete Drilling	11-10-2015	While Drilling	▽	DRY	
Drilling Contractor	Wang Testing Services	Drill Rig	D-50 TMR	At Completion of Drilling	▽	DRY	
Driller	R&R	Logger	F. Bozga	Time After Drilling	NA		
Drilling Method	3.25-inch IDA HSA, auto hammer, boring backfilled upon completion			Depth to Water	▽	NA	
				The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

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 Fax: 630-953-9938

**BORING LOG I94-OSB-01**  
 WEI Job No.: 555-15-06

Datum: NAVD 88  
 Elevation: 600.22 ft  
 North: 1805188.30 ft  
 East: 1190579.38 ft  
 Station:  
 Offset:

Client: **Illinois Department of Transportation**  
 Project: **Replacement Overhead Sign Structures**  
 Location: **Sign V, Outside, NB I-94, Cook Co.**

Page 1 of 1

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	599.98	8-inch thick dark brown, SILTY LOAM								560.2	Boring terminated at 40.00 ft						
		Medium dense to dense, brown fine SAND; MOIST	1	X	1	4 5 6	NP	11				30	X	4 5 7	1.97 B	19	
	594.7	Stiff to hard, brown and gray SILTY CLAY, trace gravel	3	X	3	4 5 7	2.30 B	21				35	X	4 5 9	4.43 B	16	
			4	X	4	3 4 6	3.28 B	22				40	X	7 10 13			
			5	X	5	3 4 7	2.30 B	20									
			6	X	6	3 4 7	2.05 B	21									
			7	X	7	3 4 7	2.13 B	20									
			8	X	8	4 5 7	2.38 B	21									
			9	X	9	5 6 8	2.46 B	18									
			10	X	10	8 8 8	2.30 B	20									

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	12-17-2015	Complete Drilling	12-17-2015	While Drilling	▽	5.00 ft	
Drilling Contractor	Wang Testing Services	Drill Rig	D-25 ATV	At Completion of Drilling	▽	38.00 ft	
Driller	R&K	Logger	D. Kolpacki	Time After Drilling	NA		
Drilling Method	2.25-inch IDA HSA, auto hammer, boring backfilled upon completion			Depth to Water	▽	NA	
				The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

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 WANGENG\INC\_5551506.GPJ WANGENG.GDT 12/20/15

USER NAME	= pociechal	DESIGNED	-	REVISED	-
DRAWN	- BAS	REVISION	-	REVISION	-
PLOT SCALE	= 100.0000' / in.	CHECKED	- LP	REVISION	-
PLOT DATE	= 8/16/2018	DATE	- 11/03/17	REVISION	-

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>SOIL BORING LOGS</b>			
<b>(I94-OSB-04 AND I94-OSB-01)</b>			
SCALE:	SHEET	OF	SHEETS
		STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D-1 OVD SIN STR REPL 18-35	COOK	79	66
CONTRACT NO. 46473				
ILLINOIS / FED. AID PROJECT				

**Wang Engineering**  
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 Fax: 630-953-9938

**BORING LOG I94-OSB-02**  
 WEI Job No.: 555-15-06

Datum: NAVD 88  
 Elevation: 598.99 ft  
 North: 1805202.61 ft  
 East: 1190503.43 ft  
 Station:  
 Offset:

Client: **Illinois Department of Transportation**  
 Project: **Replacement Overhead Sign Structures**  
 Location: **Sign V, Inside, SB I-94, Cook Co.**

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
597.8	4-inches ASPHALT over 10-inches CONCRETE --PAVEMENT--														
	Medium dense to loose, brown fine SAND; DRY to MOIST --FILL--	1	X	1	5	NP	7			11	X	11	4.5	1.89	21
		2	X	2	1	NP	14			12	X	12	4.5	1.89	20
		5								30					
	--No Recovery-- --Auger refusal at 8' bgs-- --Offset 10' North and 2' West--	3	O	3	3	NR									
591.0	Medium dense, brown SANDY GRAVEL; SATURATED	4	X	4	5	NP	21			35	X	13	4.7	2.38	17
588.5	Loose, brown fine SAND; SATURATED	5	X	5	3	NP	29								
586.0	Stiff to very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	6	X	6	3	2.71	27			40	X	14	4.7	2.46	17
		7	X	7	4	3.03	22								
		8	X	8	4	2.38	14								
		9	X	9	4	2.13	21								
		10	X	10	4	1.97	18								
		25													
								559.0	Boring terminated at 40.00 ft						

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	11-10-2015	Complete Drilling	11-10-2015	While Drilling	▽	8.00 ft	
Drilling Contractor	Wang Testing Services	Drill Rig	D-50 TMR	At Completion of Drilling	▽	35.00 ft	
Driller	R&R	Logger	F. Bozga	Time After Drilling		NA	
Drilling Method	3.25-inch IDA HSA, auto hammer, boring backfilled upon completion			Depth to Water	▽	NA	
				The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

SEECO CONSULTANTS, INC. **SOIL BORING LOG** Page 1 of 1  
 Date 11/15/16

ROUTE **FAI 94** DESCRIPTION **Prop. Overhead Sign Structure** Logged By **DK**

SECTION LOCATION **SB B. Ford @ Stony Island** SEC TWP. RNG. PM

COUNTY **Cook** STRUCTURE NO. **1S0161094R064.2-000** (Exist.) (Prop.)

Drilling Method **AASHTO T 206-09** Hammer Type **Automatic Hammer**

Boring No. **SB4A**

Station

Offse **54' E. & 6' S. of Sign Foundation**

Ground Surface El. + **99.35 +/- M.S.L.**

MSL (ft.)	DEPTH (ft.)	SPT (blows)	U C S Qu (TSF)	M O I S T (%)	Surf. Wat. El.	MSL (ft.)	DEPTH (ft.)	SPT (blows)	U C S Qu (TSF)	M O I S T (%)
98.2	1.0					75.9				
	2.0	4	4.50 P	11.3			11			
	3.0	9					17	3.46 B	13.8	
	4.0	5					17			
	5.0	6	3.71 B	12.3			26	4.50 P	13.3	
	6.0	7					29			
93.4	7.0	7	3.71 B	12.1		70.9	9			
	8.0	9					15	5.60 B	18.0	
	9.0	6								
	10.0	12	4.53 B	11.0						
	11.0	15								
	12.0	12					17			
	13.0	20	3.71 S	10.7			18	5.60 B	12.7	
	14.0	21					19			
	15.0	10								
	16.0	16	3.71 S	10.8						
	17.0	20								
	18.0	13					17			
	19.0	27	4.50 P	11.2		59.4	34	5.36 B	11.4	
	20.0	27					36			
80.9	21.0									
	22.0	17								
	23.0	23								
	24.0	28								
	25.0									
	26.0									
	27.0	37		18.9						
	28.0	32								
	29.0									
	30.0									
	31.0									
	32.0									
	33.0									
	34.0									
	35.0									
	36.0									
	37.0									
	38.0									
	39.0									
	40.0									
	41.0									
	42.0									
	43.0									
	44.0									
	45.0									

FILL: SANDY LOAM (TOPSOIL), Dark Brown

SILTY CLAY LOAM, Brown and Gray, Trace Gravel, Hard to Very Stiff, Moist (A-6)

SILTY CLAY LOAM, Gray, Trace Gravel, Trace Shale, Very Stiff to Hard to Very Stiff to Hard, Moist (A-6)

SILTY CLAY LOAM, Gray, Trace Gravel, Trace Shale, Very Stiff to Hard to Very Stiff to Hard, Moist (A-6)

SILT, Gray, Very Dense, Moist (A-4)

End of Boring at 40 Feet

Boring Coordinates:  
 Lat = 41.71321  
 Long = -87.60681

DRILL RIG: D-50

N=Standard Penetration Test-Blows per six inches to drive 2" O.D. (QU)B=Bulge S=Shear P=Penetrometer Test  
 Split Spoon Sampler 24" with 140lb hammer falling 30"  
 4.25" Diameter Hollow Stem Augers used between Split Spoon Sample intervals unless noted otherwise.

MODEL: Default  
 FILE: \\mllc-pw01\p01\DOT\Documents\DOT\_Offices\Illinois\proj\5551506\GPI\WANGENG.GDT 12/30/15  
 PROJECT: 5551506.GPJ WANGENG.GDT 12/30/15

USER NAME = pociechal	DESIGNED -	REVISED -
DRAWN - BAS	REVISED -	
PLOT SCALE = 100,0000' / in.	CHECKED - LP	REVISED -
PLOT DATE = 8/16/2018	DATE - 11/03/17	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

SOIL BORING LOGS (I94-OSB-02 AND SB4-A)			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D-1 OVD SIN STR REPL 18-35	COOK	79	67
CONTRACT NO. 46473				
ILLINOIS FED. AID PROJECT				

SEECO Job No. 10612G-9

SEECO CONSULTANTS, INC. SOIL BORING LOG										Page 1 of 1		
ROUTE <b>FA1 94</b>		DESCRIPTION <b>Prop. Overhead Sign Structure</b>				Date <b>11/15/16</b>		Logged By <b>DK</b>				
SECTION		LOCATION <b>SB B. Ford @ Stony Island</b>				SEC		TWP.		RNG. PM		
COUNTY <b>Cook</b>		STRUCTURE NO. <b>1S0161094R064.2-000</b> (Exist.)				(Prop.)						
		Drilling Method <b>AASHTO T 206-09</b>				Hammer Type <b>Automatic Hammer</b>						
Boring No. <b>SB4-B</b>		Surf. Wat. El. _____		E L P C M		E L P C M						
Station _____		Groundwater Elev.: _____		E L P C M		E L P C M						
Offset <b>25' E. &amp; 7' S. of Sign Foundation</b>		When Drilling <b>Dry</b>		E L P C M		E L P C M						
Ground Surface El. <b>+ 99.49 +/- M.S.L.</b>		at Completion <b>Dry</b>		E L P C M		E L P C M						
		After _____ Hrs _____		E L P C M		E L P C M						
12" FILL: SANDY GRAVEL, Brown		98.5	1.0						23.0			
SILTY CLAY LOAM, Brown and Gray, Trace Gravel, Very Stiff to Hard, Moist (A-6) (Interbedded Sand Layers)				5					24.0	9		
				6	2.80	13.5			25.0	13	5.11	
				7					26.0	18	B	11.6
				7					27.0	14		
SILTY CLAY LOAM, Gray, Trace Gravel, Hard, Moist (A-6)				7					28.0	21	6.47	
				7	5.48	12.5			29.0	24	B	11.7
				7					30.0	9		
				11	4.00	13.0			31.0	11	7.42	12.2
SILT, Gray, Dense (A-4)				10					32.0	16	B	
				10					33.0	9		
				21					34.0	11	5.07	18.2
				21					35.0	14	B	
SILTY CLAY LOAM, Gray, Trace Shale, Trace Gravel, Hard, Moist (A-6) (Interbedded Sand Layers)				19					36.0			
				19	5.41	11.3			37.0			
				21					38.0			
				9					39.0	14		
				18	4.50	13.5			40.0	18	2.97	25.2
				17					41.0	34	B	
				29	4.50	10.3			42.0			
				34					43.0			
SILT, Gray, Dense, Moist (A-4)				12					44.0			
				18					45.0			
				23								
				23								
CLAY, Gray, Hard to Very Stiff, Moist (A-6)				11								
				15	4.50	11.6						
				19								

N=Standard Penetration Test-Blows per six inches to drive 2" O.D. (QU)B=Bluge S=Shear P=Penetrometer Test  
 Split Spoon Sampler 24" with 140lb hammer falling 30" DRILL RIG: D-50  
 4.25" Diameter Hollow Stem Augers used between Split Spoon Sample intervals unless noted otherwise.

SEECO Job No. 10612G-9

SEECO CONSULTANTS, INC. SOIL BORING LOG										Page 1 of 1	
ROUTE <b>FA1 290</b>		DESCRIPTION <b>Prop. Overhead Sign Structure</b>				Date <b>12/8/16</b>		Logged By <b>TD</b>			
SECTION		LOCATION <b>EB I-290 @ IL 72</b>				SEC		TWP.		RNG. PM	
COUNTY <b>Cook</b>		STRUCTURE NO. <b>1C0161290R001.0-000</b> (Exist.)				(Prop.)					
		Drilling Method <b>AASHTO T 206-09</b>				Hammer Type <b>Automatic Hammer</b>					
Boring No. <b>SB13</b>		Surf. Wat. El. _____		E L P C M		E L P C M					
Station _____		Groundwater Elev.: _____		E L P C M		E L P C M					
Offset <b>20' S &amp; 11' E</b>		When Drilling <b>Dry</b>		E L P C M		E L P C M					
Ground Surface El. <b>+ 98.06 +/- M.S.L.</b>		at Completion <b>Dry</b>		E L P C M		E L P C M					
		After _____ Hrs _____		E L P C M		E L P C M					
13.5" BITUMINOUS CONCRETE PAVEMENT		96.9	1.0						74.6		
6.5" FILL: SAND AND GRAVEL, Dark Brown and Gray, Loose, Dry (A-1-h) FILL: SILTY LOAM, Dark Brown, Medium Dense, Moist (A-4)				4		1.8			24.0	10	
				6					25.0	18	15.2
				5					26.0	40	
CLAY, Dark Brown and Brown, Hard, Moist (A-6)				4					27.0	29	
				5					28.0	31	5.30
				8					29.0	39	23.1
				9					30.0	8	
FILL: SILTY CLAY, Dark Brown, Very Stiff, Moist (A-6)				11					31.0	11	4.33
				12					32.0	16	19.3
				14					33.0		
				6					34.0	5	
FILL: SILTY CLAY LOAM, Dark Brown, Hard, Moist (A-6)				6	3.71	16.1			35.0	7	2.47
				7					36.0	10	13.6
				8					37.0		
				11	4.25	15.3			38.0		
FILL: SILTY CLAY LOAM, Dark Brown and Black, Hard, Moist (A-6)				14					39.0	6	
				10	4.25	13.4			40.0	7	4.32
				13					41.0	13	17.9
				8					42.0		
FILL: SILTY CLAY LOAM, Dark Brown, Very Stiff, Moist (A-6)				9	4.00	17.5			43.0		
				9					44.0		
				11					45.0		
				4							
FILL: CLAY, Dark Brown, Brown and Black, Very Stiff, Moist (A-6)				7	3.71	12.8					
				11							
				9							
				15	3.00	14.1					

N=Standard Penetration Test-Blows per six inches to drive 2" O.D. (QU)B=Bluge S=Shear P=Penetrometer Test  
 Split Spoon Sampler 24" with 140lb hammer falling 30" DRILL RIG: D-50  
 4.25" Diameter Hollow Stem Augers used between Split Spoon Sample intervals unless noted otherwise.

SEECO Job No. 10612G-9

MODEL: Default  
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USER NAME = pociechal	DESIGNED -	REVISED -
DRAWN - BAS	REVISED -	
PLOT SCALE = 100,0000' / in.	CHECKED - LP	REVISED -
PLOT DATE = 8/16/2018	DATE - 11/03/17	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE:	SHEET	OF SHEETS	STA.	TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D-1 OVD SIN STR REPL 18-35	COOK	79	68
CONTRACT NO. 46473			ILLINOIS FED. AID PROJECT	

SOIL BORING LOGS  
(SB4-B AND SB13)

SEECO CONSULTANTS, INC. SOIL BORING LOG										Page 1 of 1	
ROUTE <b>FAP 348</b>		DESCRIPTION <b>Prop. Overhead Sign Structure</b>		Date <b>10/11/16</b>		Logged By <b>VM/SD</b>					
SECTION		LOCATION <b>NB IL 43 advance of US 20 (98th St.)</b>		SEC		TWP.		RNG.		PM	
COUNTY <b>Cook</b>		STRUCTURE NO. <b>1C016S043R000.0-001</b> (Exist.)		(Prop.)							
Boring No. <b>SB18</b>		Drilling Method <b>AASHTO T 206-09</b>		Hammer Type <b>Automatic Hammer</b>							
Station		Surf. Wat. El.		E		D		S		U	
Offset <b>28'S &amp; 3'W</b>		Groundwater Elev.: When Drilling <b>23.5'</b>		L		E		P		T	
Ground Surface El. <b>+ 97.42 +/- M.S.L.</b>		at Completion <b>22'</b>		V.		H		N		Qu	
		After Hrs		M.S.L.		(ft.)		(blows)		(TSF) (%)	
12" FILL: CLAY TOPSOIL, Dark Brown (A-7-5)		96.4		23.0							
FILL: CLAY, Brown and Dark Brown, Trace Sand and Gravel, Very Stiff to Stiff, Moist (A-6)		2.0		24.0		42					
		3.0		25.0		55					
		4.0		26.0		22					
		5.0		27.0		33					
		6.0		28.0							
FILL: SAND, Brown, Fine, Trace Gravel, Medium Dense, Dry (A-3)		7.0		29.0		18					
		8.0		30.0		38					
		9.0		31.0		23					
FILL: LIMESTONE/COBBLE Fragments & GRAVEL, Gray and Tan, Trace Sand, Silt & Clay, Very Dense, Dry (A-1-b)		10.0		32.0		46					
FILL: CLAY, Brown and Dark Brown, Trace Sand and Gravel, Stiff, Dry (A-6)		11.0		33.0							
GRAVEL, Gray and Tan, Some Silt and Clay, Medium Dense, Saturated (A-1-b)		12.0		34.0		21					
		13.0		35.0		48					
		14.0		36.0		19					
SILT, Gray, Some Gravel, Trace Sand, Very Dense, Dry to Moist (A-4)		15.0		37.0		22					
		16.0		38.0		35					
		17.0		39.0		24					
		18.0		40.0		33					
SILT, Gray, Trace Sand and Gravel, Very Dense, Dry (A-4)		19.0		41.0							
		20.0		42.0							
		21.0		43.0							
SILT, Gray, Some Gravel, Very Dense, Dry (A-4)		22.0		44.0							
		23.0		45.0							

N=Standard Penetration Test-Blows per six inches to drive 2" O.D. (QU)B=Bulge S=Shear P=Penetrometer Test  
 Split Spoon Sampler 24" with 140lb hammer falling 30" DRILL RIG: D-50  
 4.25" Diameter Hollow Stem Augers used between Split Spoon Sample intervals unless noted otherwise.

SEECO Job No. 10612G-9

SEECO CONSULTANTS, INC. SOIL BORING LOG										Page 1 of 1	
ROUTE <b>FAP 348</b>		DESCRIPTION <b>Prop. Overhead Sign Structure</b>		Date <b>12/13/16</b>		Logged By <b>DK</b>					
SECTION		LOCATION <b>NB IL 43 @ US 20 (95th St.)</b>		SEC		TWP.		RNG.		PM	
COUNTY <b>Cook</b>		STRUCTURE NO. <b>1C016S043R000.0-002</b> (Exist.)		(Prop.)							
Boring No. <b>SB19</b>		Drilling Method <b>AASHTO T 206-09</b>		Hammer Type <b>Automatic Hammer</b>							
Station		Surf. Wat. El.		E		D		S		U	
Offset <b>29'S &amp; 9'W</b>		Groundwater Elev.: When Drilling <b>Dry</b>		L		E		P		T	
Ground Surface El. <b>+ 100.13 +/- M.S.L.</b>		at Completion <b>Dry</b>		V.		H		N		Qu	
		After Hrs		M.S.L.		(ft.)		(blows)		(TSF) (%)	
6" BITUMINOUS CONCRETE PAVEMENT		99.6		23.0							
7" PCC CONCRETE BASE		99.1		24.0		5					
2.5" SAND BASE COURSE, Brown		98.8		25.0		9		2.47		17.9	
2.5" FILL: CLAY, Brown, Gray and Black, Trace Sand, Very Stiff, Moist (A-6)		98.6		26.0		11		4.25		19.4	
FILL: CLAY, Brown and Gray, Trace Sand and Gravel, Hard to Very Stiff, Moist (A-6)		94.1		27.0		16		P			
		91.6		28.0							
FILL: CLAY, Brown, Dark Brown and Gray, Trace Sand and Gravel, Very Stiff, Moist (A-6)		91.6		29.0		10		4.00		19.7	
		81.6		30.0		14		P			
FILL: CLAY, Brown and Gray, Trace Sand and Gravel, Hard to Very Stiff, Moist (A-6)		81.6		31.0		23					
		79.1		32.0		25					
		76.4		33.0		46					
		75.1		34.0		21					
				35.0		48					
				36.0		19					
				37.0		22					
				38.0		35					
				39.0		24					
				40.0		33					
FILL: CLAY, Brown and Gray, Trace Black, Trace Cinder and Glass Pieces, Very Stiff, Moist (A-6)		79.1		41.0							
		77.1		42.0							
		75.1		43.0							
				44.0							
				45.0							

N=Standard Penetration Test-Blows per six inches to drive 2" O.D. (QU)B=Bulge S=Shear P=Penetrometer Test  
 Split Spoon Sampler 24" with 140lb hammer falling 30" DRILL RIG: D-50  
 4.25" Diameter Hollow Stem Augers used between Split Spoon Sample intervals unless noted otherwise.

SEECO Job No. 10612G-9

MODEL: Default FILE: \\hulb08\EBID\NETC\Illinois\poc\p\BIDD\Documents\BIDD\Office\BIDD\119\poc\11660009\18\COB\BIDD\Traffic\11660009\18\sb18.dgn

USER NAME = poclechal	DESIGNED -	REVISED -
	DRAWN - BAS	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - LP	REVISED -
PLOT DATE = 8/16/2018	DATE - 11/03/17	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE:		SHEET		OF SHEETS		STA.		TO STA.	
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SOIL BORING LOGS  
(SB18 AND SB19)

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35	COOK	79	69	
CONTRACT NO. 46473				
ILLINOIS / FED. AID PROJECT				







**Illinois Department of Transportation**  
Division of Highways  
Illinois Department of Transportation District

# SOIL BORING LOG

Page 1 of 1

Date 6/19/18

ROUTE Interstate 94 DESCRIPTION FAI 94 (Northbound I-94) - Overhead Sign at MP 30.8 LOGGED BY M. Esposito

SECTION LOCATION Outside Shoulder, West side of, SEC. 12, TWP. 42N, RNG. 12E, 3<sup>rd</sup> PM,  
Latitude 42°7'47.2836", Longitude -87°47'6.4464"

COUNTY Cook DRILLING METHOD HSA HAMMER TYPE Auto

STRUCT. NO. 1S016I094L030.8-000  
Station \_\_\_\_\_  
BORING NO. SBY-1  
Station \_\_\_\_\_  
Offset 20.0 ft N of Ex. Foundation  
Ground Surface Elev. 626.50 ft

DEPTH (ft)	BLOW COUNT (/6")	UNCONSOLIDATED QUANTITY (tsf)	MOISTURE (%)	SOIL DESCRIPTION	DEPTH (ft)	BLOW COUNT (/6")	UNCONSOLIDATED QUANTITY (tsf)	MOISTURE (%)
624.50			24	Black, Silty Clay TOPSOIL	4			
				Stiff to Hard, Gray, Moist, SILTY CLAY (continued)	5	2.3	16	
					8	B		
	2			Medium Stiff, Black, Brown, Gray Mottled, Very Moist CLAY	3			
	1	0.8	26		5	2.4	16	
	1	B			7	B		
621.50				Medium Stiff to Hard, Brown, Moist, CLAY				
					-25			
	0				4			
	1	0.8	21		4	1.7	17	
	2	B			6	B		
	5				3			
	8	4.7	15		4	1.5	15	
	14	B			7	B		
617.00				Stiff to Hard, Gray, Moist, SILTY CLAY				
					596.50	-30		
	7			Stiff, Gray, Moist, LOAM	2			
	10	4.3	14		5	1.2	12	
	13	B			5	B		
				End of Boring				
	5							
	7	4.0	15					
	11	B						
					-35			
	3							
	6	3.4	15					
	8	B						
	3							
	5	2.9	16					
	8	B						
					-40			

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, form 137 (Rev. 8-99)

MODEL: Default  
FILE: \\nas0101\B&E\BID\NTEC\Illinois\gov\PIVDOT\Documents\BID\DOT\_Offices\BID\BID\1\Projects\Illinois\18\Cook\B&E\Traffic\6000918\shc-st-1.dgn

SOIL BORING ADDITIONAL OVERHEAD SIGNS\_CCOOK CO\_CONTRACT 46473 GP\_J IL\_DOT.GDT 6/23/18

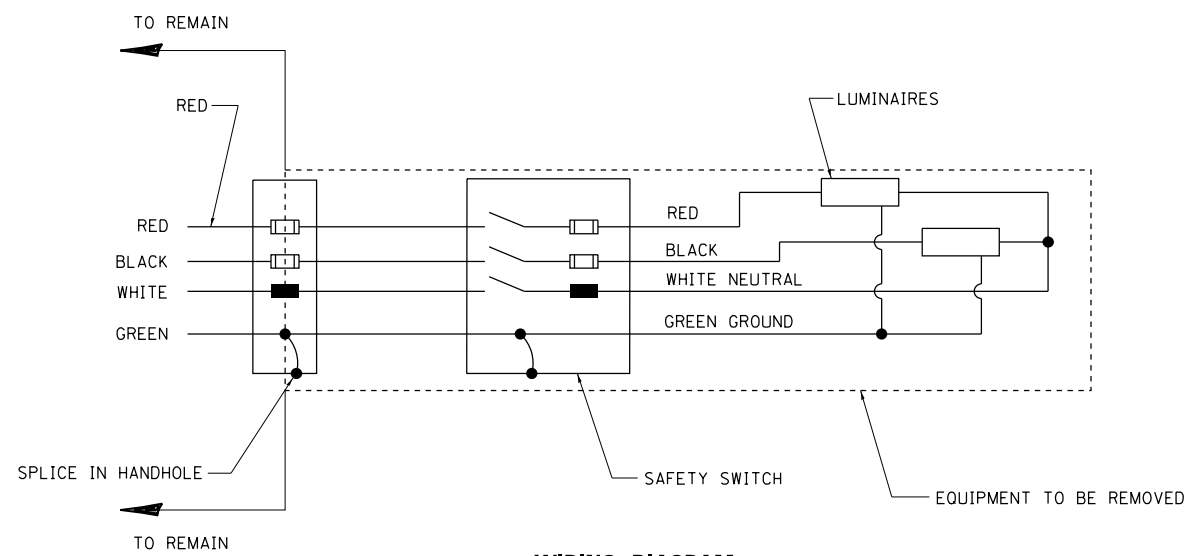
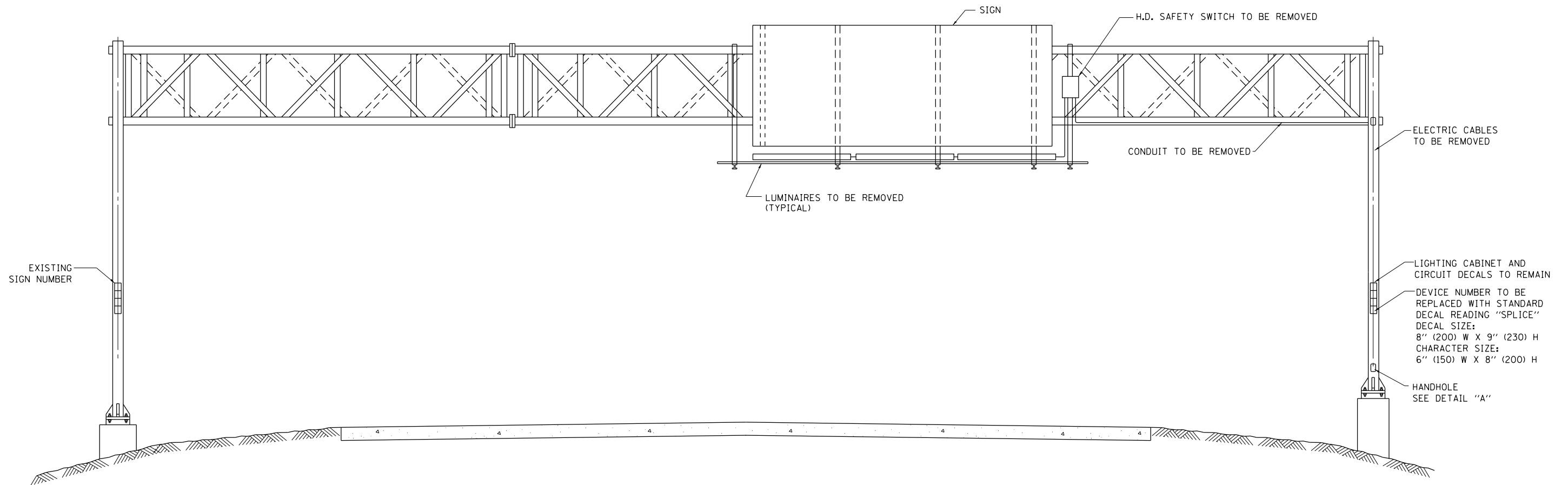
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PLOT DATE = 8/16/2018	DATE - 07/03/18	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

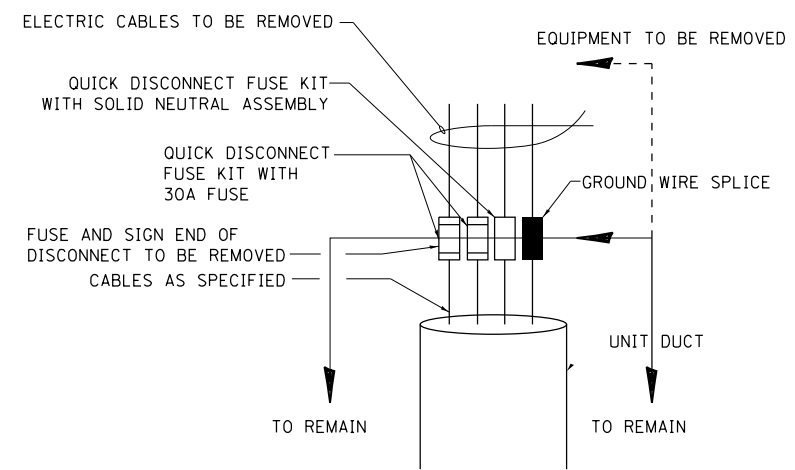
**SOIL BORING LOGS  
(SB22)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35		COOK	79	71
CONTRACT NO. 46473			ILLINOIS FED. AID PROJECT	



**WIRING DIAGRAM**

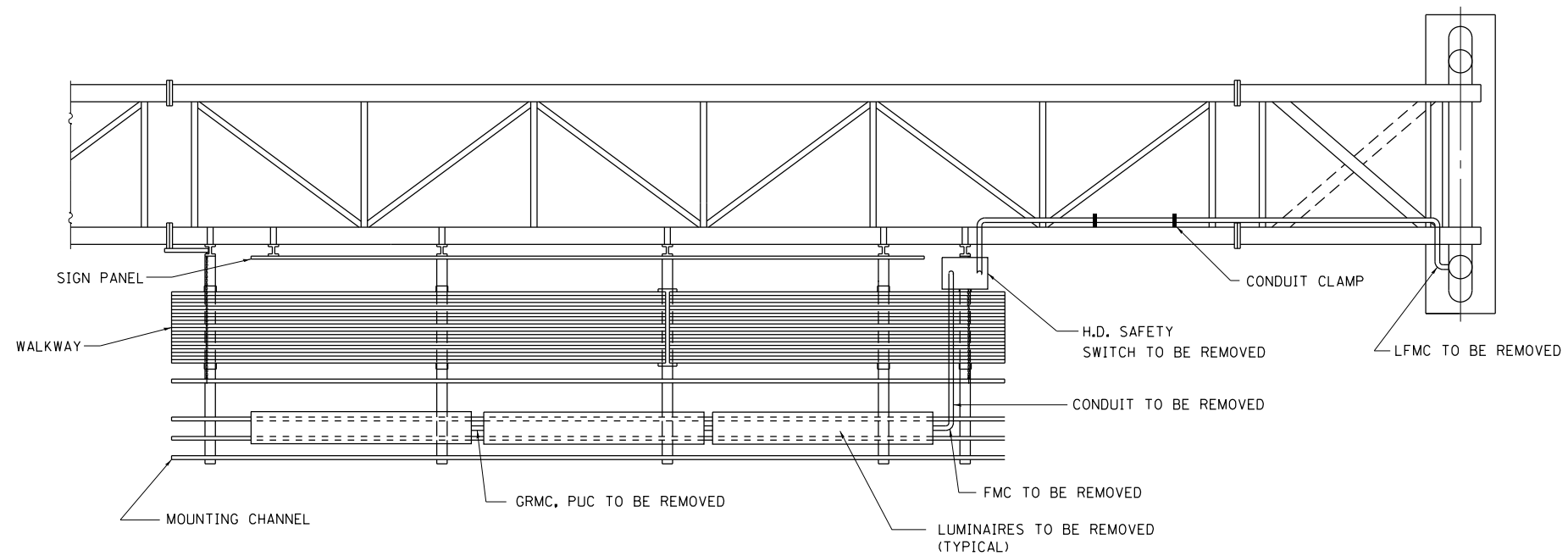


**DETAIL A**

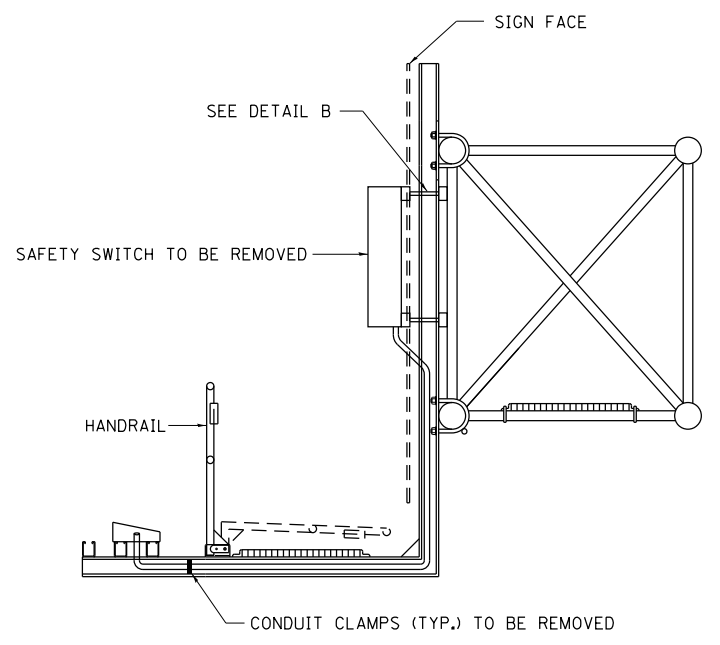
**WIRING MODIFICATIONS:**

- A) IF SIGN IS NOT A FED THRU;
  - 1) REMOVE ALL WIRING FROM LOWER HANDHOLE OR JUNCTION BOX TO LUMINAIRES. (LOAD SIDE)
  - 2) CAP LINE SIDE OF WIRES.
  
- B) IF SIGN IS USED AS A MID CIRCUIT TAP;
  - 1) REMOVE ALL WIRING FROM LOWER HANDHOLE OR JUNCTION BOX TO LUMINAIRES. (LOAD SIDE)
  - 2) RESPLICE LINE SIDE CABLES TO MAINTAIN CIRCUIT CONTINUITY.

**NOTE:**  
 1. CONTRACTOR TO COORDINATE WITH IDOT ELECTRIC MAINTENANCE CONTRACTOR PRIOR TO PERFORMING ANY WORK.



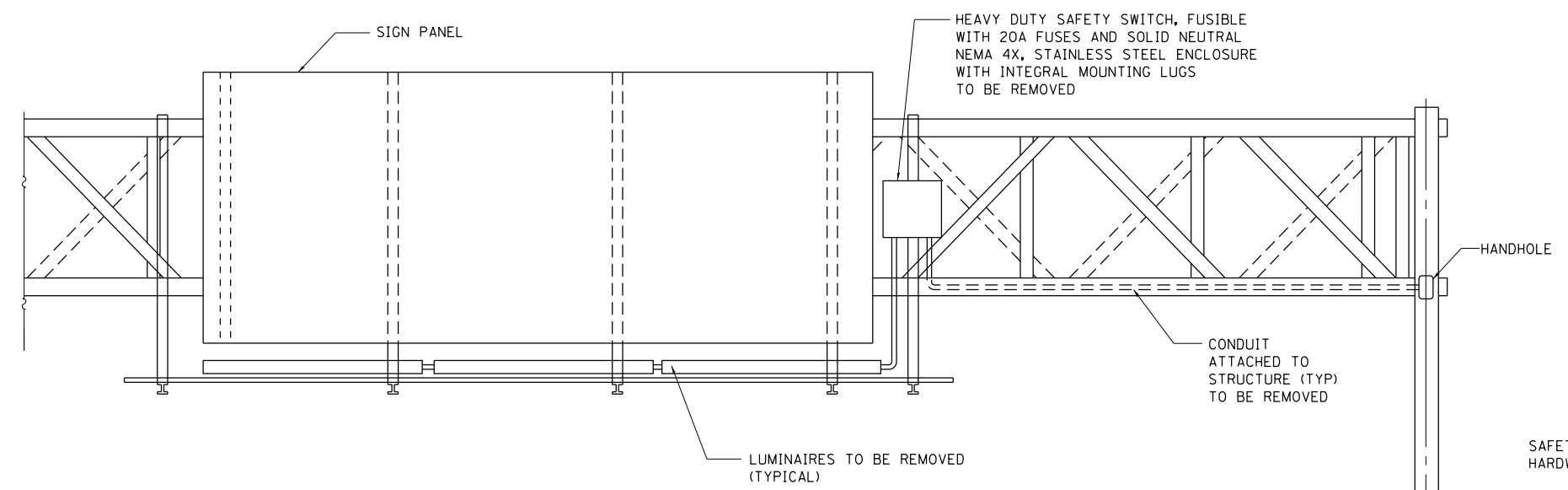
**TOP VIEW**



**TOP VIEW**

**SIDE VIEW**

**DETAIL B**



**ELEVATION VIEW**

**WIRING MODIFICATIONS:**

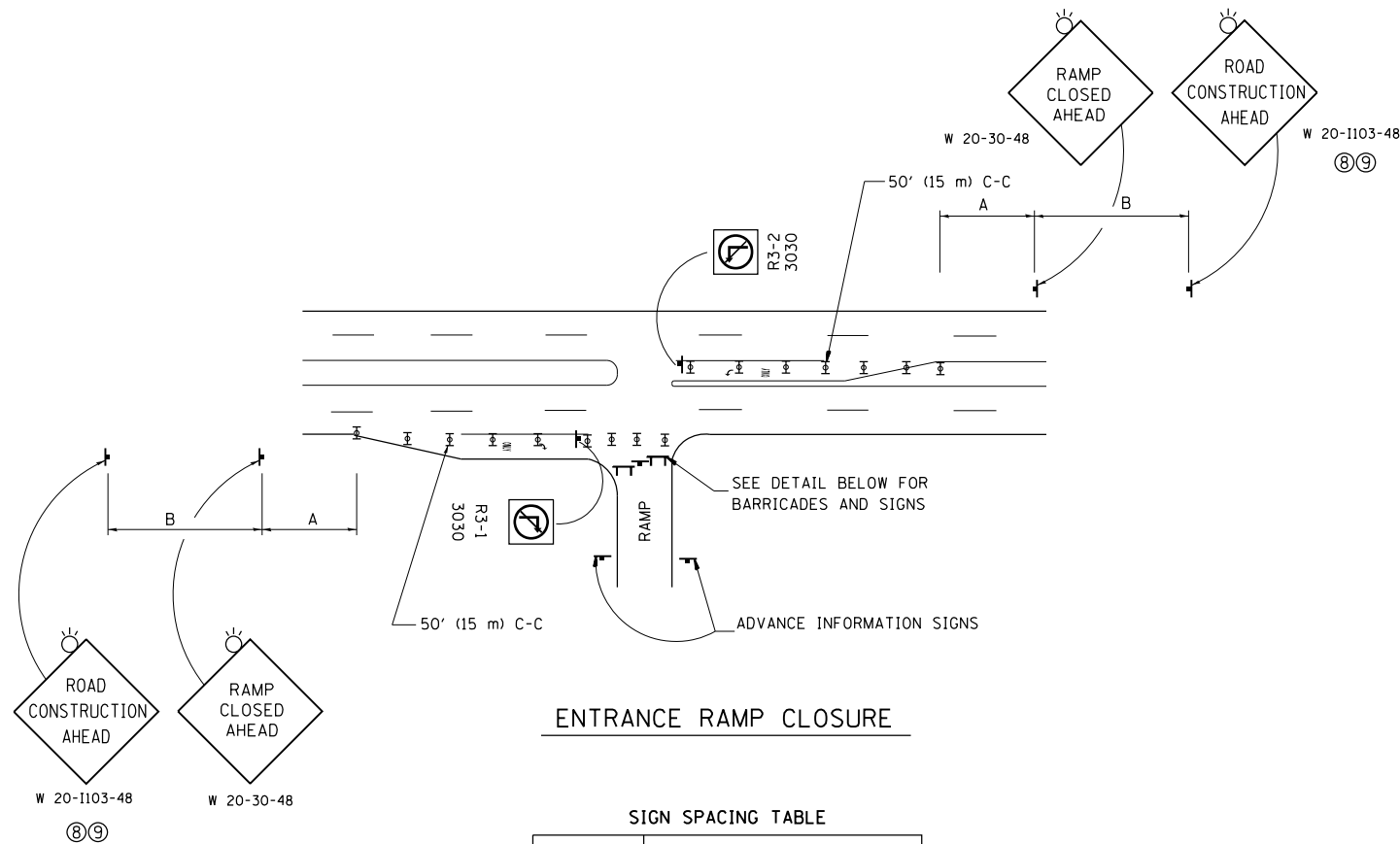
- A) IF SIGN IS NOT A FED THRU;
  - 1) REMOVE ALL WIRING FROM LOWER HANDHOLE OR JUNCTION BOX TO LUMINAIRES. (LOAD SIDE)
  - 2) CAP LINE SIDE OF WIRES.
  
- B) IF SIGN IS USED AS A MID CIRCUIT TAP;
  - 1) REMOVE ALL WIRING FROM LOWER HANDHOLE OR JUNCTION BOX TO LUMINAIRES. (LOAD SIDE)
  - 2) RESPLICE LINE SIDE CABLES TO MAINTAIN CIRCUIT CONTINUITY.

FILE NAME =	USER NAME = poc1eoh1	DESIGNED -	REVISED -
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Default	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -
	PLOT DATE = 8/16/2018	DATE - 10-16-14	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>REMOVAL OF ELECTRICAL LIGHTING FROM SIGN STRUCTURE SHEET 2 OF 2</b>			
<b>SPAN TYPE</b>			
SCALE:	SHEET 2 OF 2 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35	BE-610	COOK	79	73
ILLINOIS FED. AID PROJECT			CONTRACT NO. 46473	

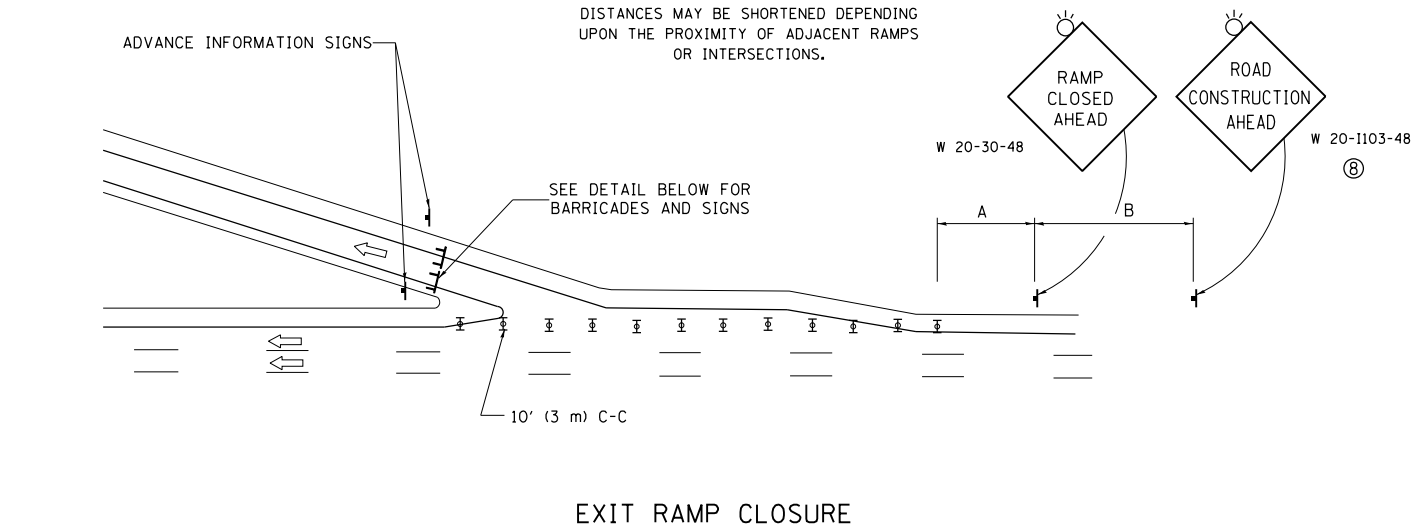


**ENTRANCE RAMP CLOSURE**

**SIGN SPACING TABLE**

FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY <24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

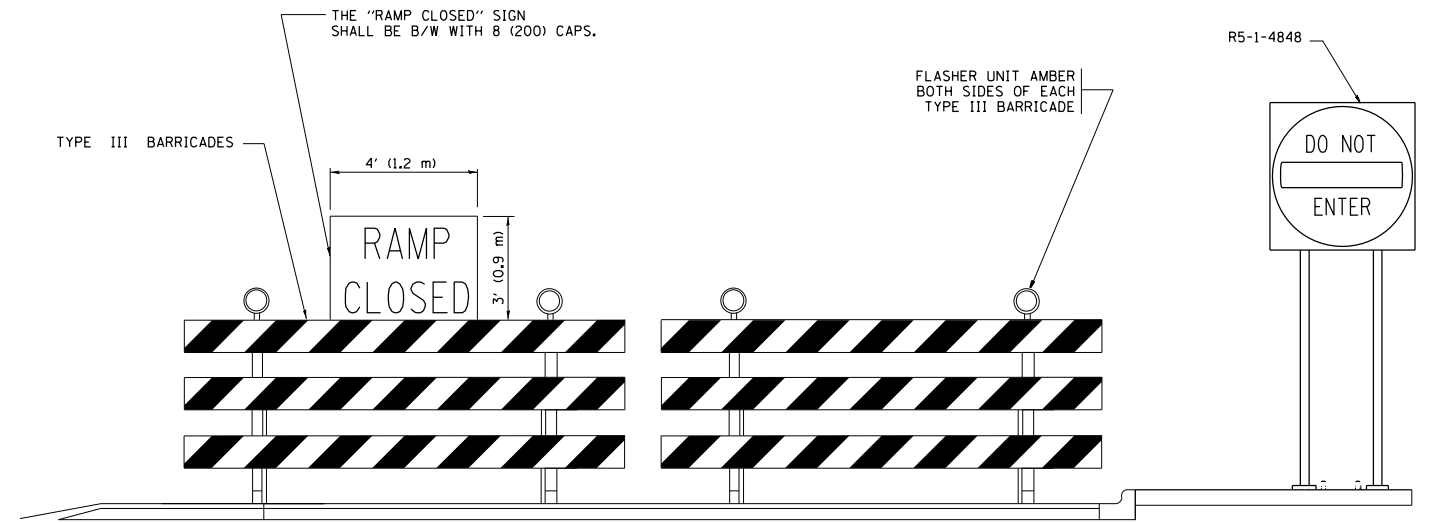
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



**EXIT RAMP CLOSURE**

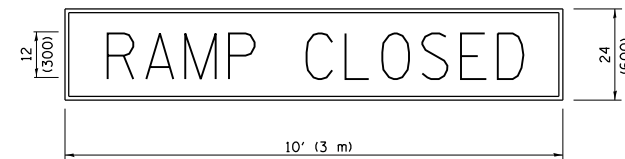
**SYMBOLS**

- ⊥ TYPE II BARRICADE OR DRUM
- ⊓ TYPE III BARRICADE WITH 2 FLASHING LIGHTS



**DETAIL FOR REQUIRED BARRICADES & SIGNS**

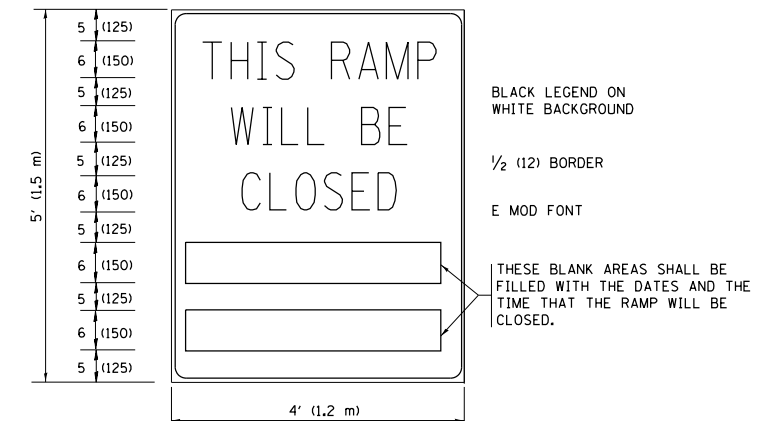
**RAMP CLOSURE ADVANCE WARNING SIGN**



BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY  
E MOD FONT  
1 (25) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

**RAMP CLOSURE ADVANCE INFORMATION SIGN**



BLACK LEGEND ON WHITE BACKGROUND

1/2 (12) BORDER

E MOD FONT

THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

**GENERAL NOTES:**

- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- ② VERTICAL BARRICADES SHALL NOT BE USED FOR RAMP CLOSURES.
- ③ A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEDED BY A W20-7 FLAGGER WARNING SIGN.
- ④ ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- ⑤ THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- ⑥ AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- ⑦ THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH.
- ⑧ ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ⑨ ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = poc1echn	DESIGNED - D.W.S.	REVISED - S.P.B. 01-07
pw:\IL\084EBID\INTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\M600918\Traffic\M600918-shr-gennov		DRAWN	REVISED - S.P.B. 12-09
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - M.D. 06-13
	PLOT DATE = 8/16/2018	DATE - 02-83	REVISED - M.D. 01-18

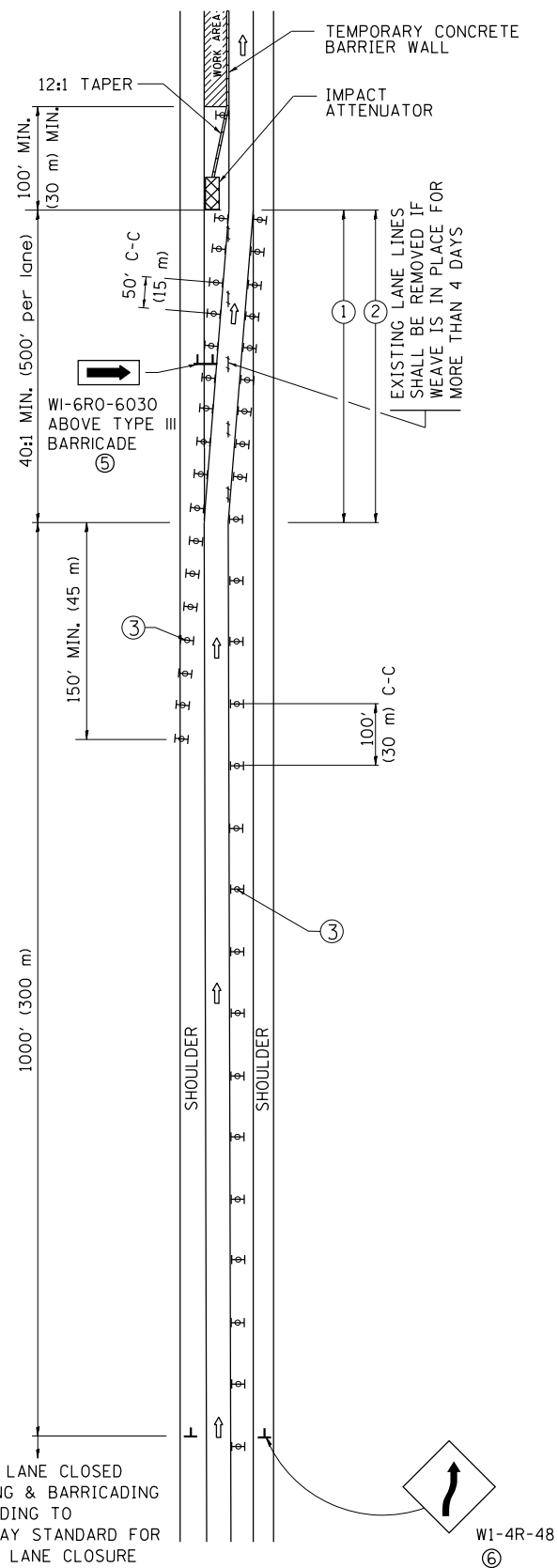
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ENTRANCE AND EXIT RAMP  
CLOSURE DETAILS**

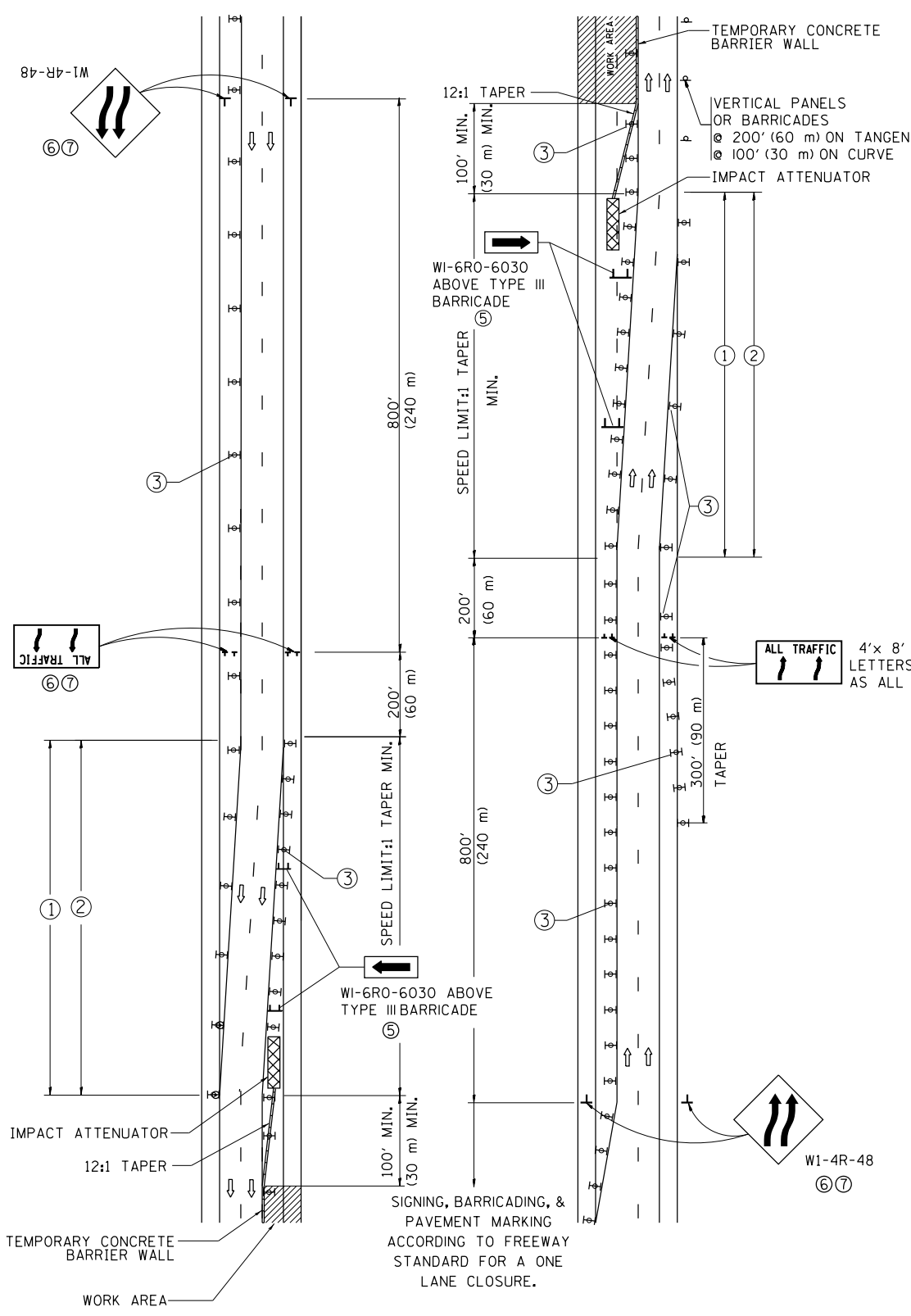
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35		COOK	79	74
<b>TC-08</b>		<b>CONTRACT NO. 46473</b>		
ILLINOIS FED. AID PROJECT				

# SINGLE LANE WEAVE



# MULTI-LANE WEAVE



### GENERAL NOTES

- EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
- CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- TYPE III BARRICADES MAY BE OMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
- WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
- THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

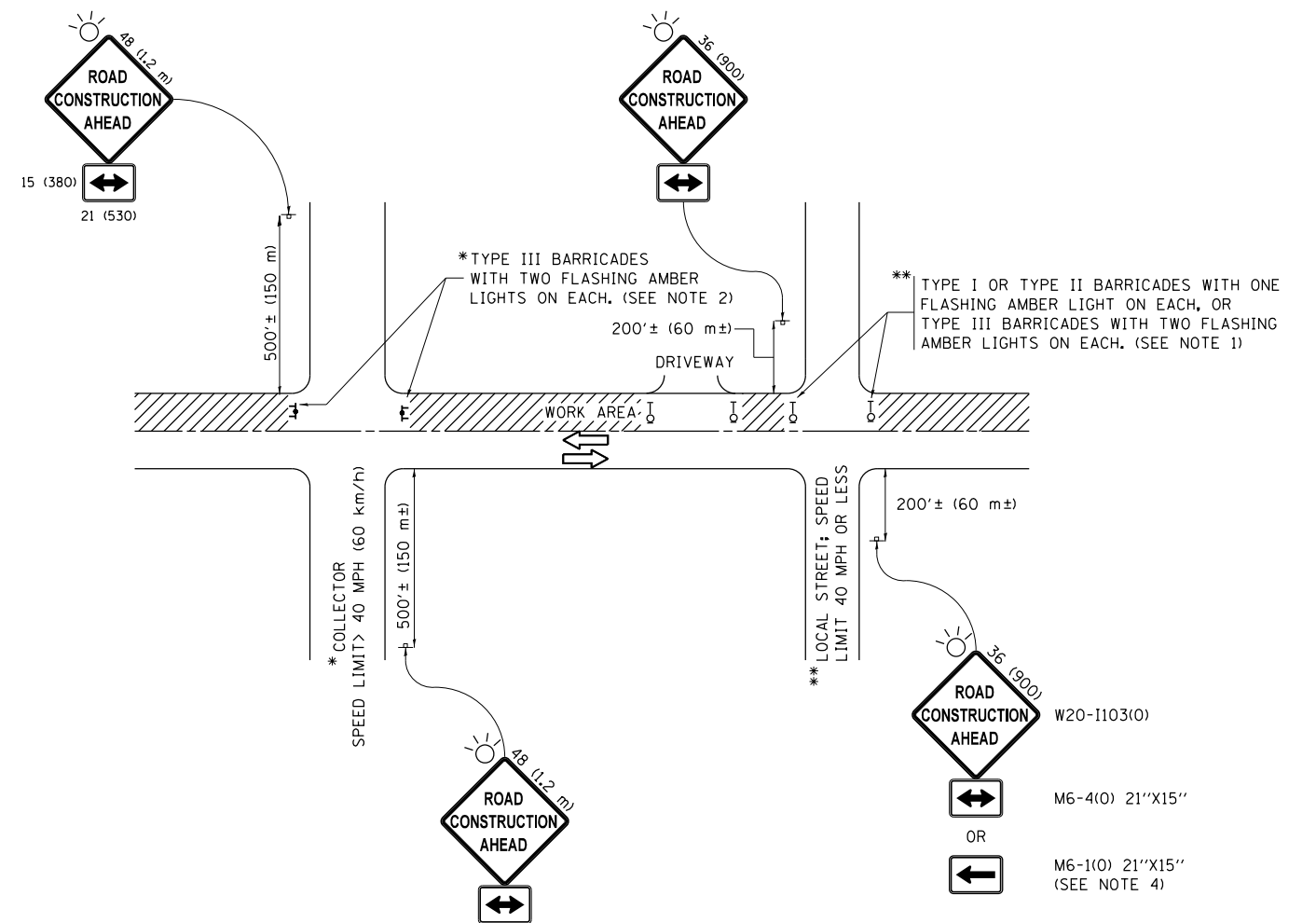
4'x 8' (1.2 m x 2.4 m); 1 (25) BORDER; 10 (250) CAPITAL LETTERS BACKGROUND SHEETING SHALL BE THE SAME AS ALL DIAMOND SHAPED CONSTRUCTION SIGNS.

### SYMBOLS

- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATOR
- W1-4R-48
- W24-1-48

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = poc1eoh1	DESIGNED - D.W.S.	REVISED - J.A.F. 02-06	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE &amp; MULTI-LANE WEAVE</b>				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default		CHECKED -	REVISED - S.P.B. 01-07		SCALE: NONE	SHEET 1	OF 1 SHEETS	STA.	TO STA.	D-1 OVD SIN STR REPL 18-35	COOK	79	75
		DATE - 02-87	REVISED - S.P.B. 12-09						<b>TC-09</b>		<b>CONTRACT NO. 46473</b>		
			REVISED - M.D. 06-13						ILLINOIS FED. AID PROJECT				



**NOTES:**

- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
  - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
  - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = poc1echal	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
p:\11084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\M6000918-18-sh-t-genno		REVISOR - T. RAMMACHER 01-06-00	REVISED - T. RAMMACHER 01-06-00
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
	PLOT DATE = 8/16/2018	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

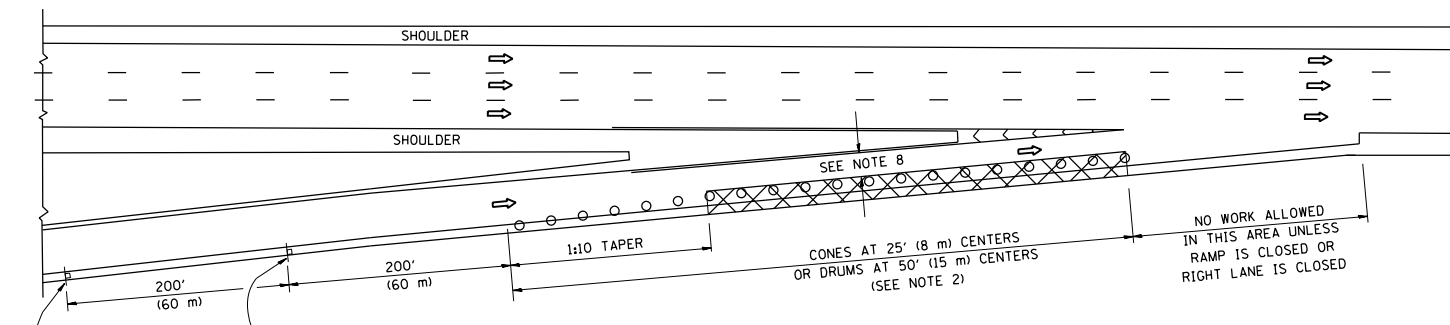
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION FOR  
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

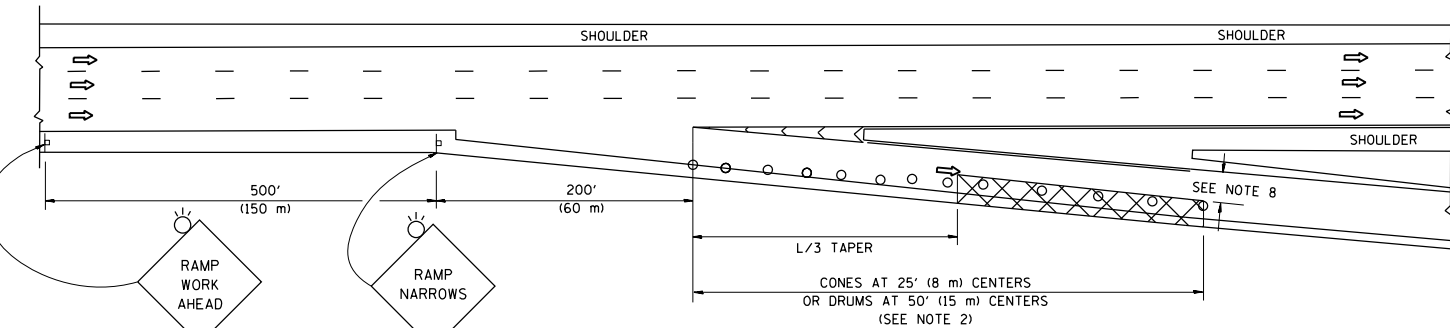
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35		COOK	79	76
<b>TC-10</b>			<b>CONTRACT NO. 46473</b>	
ILLINOIS FED. AID PROJECT				

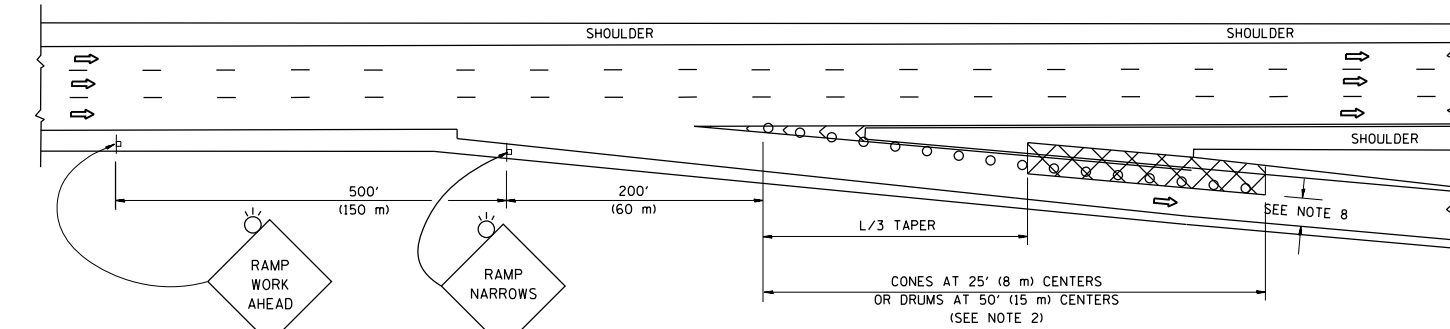
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

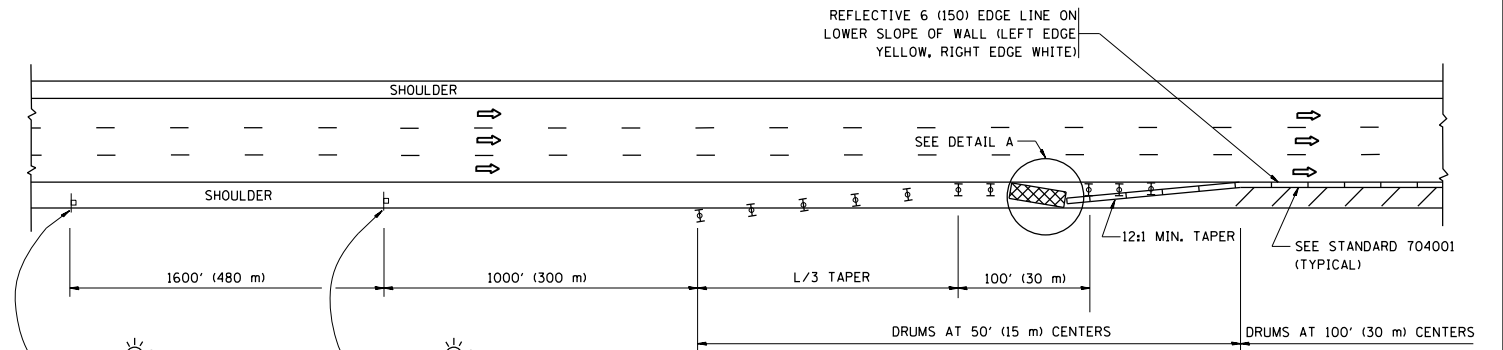
GENERAL NOTES

1. THE "L" DISTANCE EQUALS:  

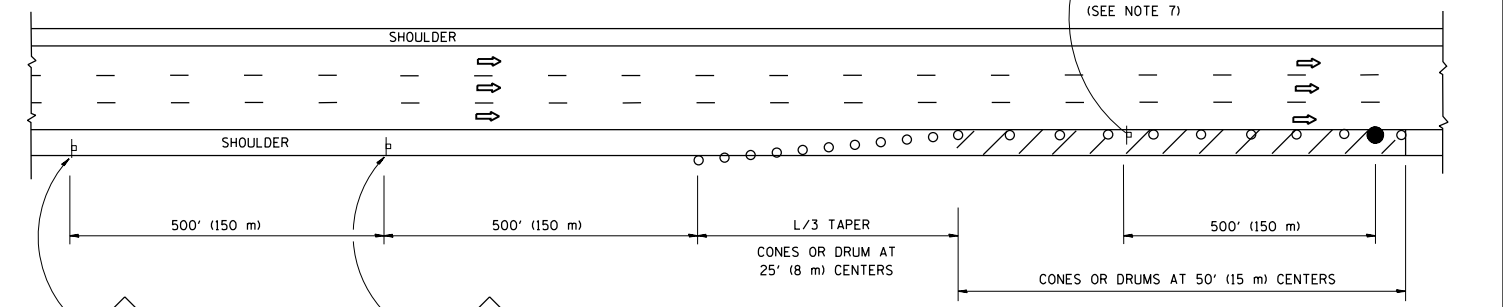
SPEED LIMIT	FORMULAS
45 mph (80 km/h)	METRIC ENGLISH
OR GREATER:	$L=0.65(W)(S)$ $L=(W)(S)$

W = WIDTH OF OFFSET IN FEET (METERS)  
 S = NORMAL POSTED SPEED MPH (KM/H)
2. TYPE II BARRICADES OR DRUMS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES. TYPE II BARRICADES OR DRUMS WITH MONODIRECTIONAL STEADY BURN LIGHTS ARE REQUIRED FOR DELINEATING OBSTACLES, EXCAVATIONS, OR HAZARDS EXCEEDING 100 FT (30m) IN LENGTH AT NIGHT.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.
5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
  - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
  - b. THE WORK ACTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12' MIN. WIDTH TANGENT SECTION  
 16' MIN. WIDTH CURVE SECTION.

SHOULDER CLOSURE DETAILS

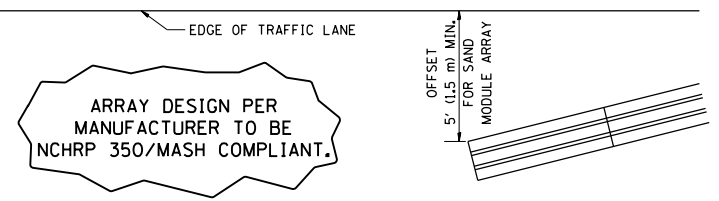


PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

THIS DETAIL IS USED WHERE:  
 1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.



ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = pociechal	DESIGNED -	REVISED - S.P.B. 01-07
pw:\IL\084EBIDINTEG\Illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\M6000\Drawings\Traffic\W500918-shl-gennov		CHECKED -	REVISED - S.P.B. 12-09
Default	PLOT SCALE = 100.0000' / 1in.	DATE - 11-96	REVISED - M.D. 06-13
	PLOT DATE = 8/16/2018		REVISED - M.D. 01-18

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY  
SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES

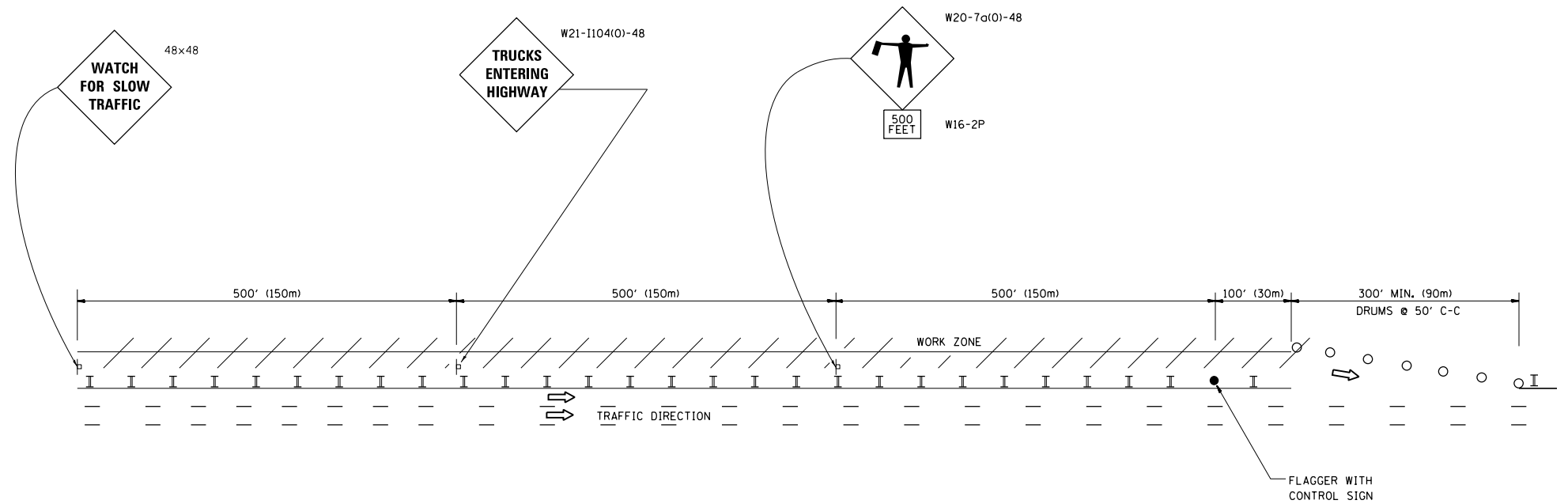
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35	TC-17	COOK	79	77
ILLINOIS FED. AID PROJECT			CONTRACT NO. 46473	

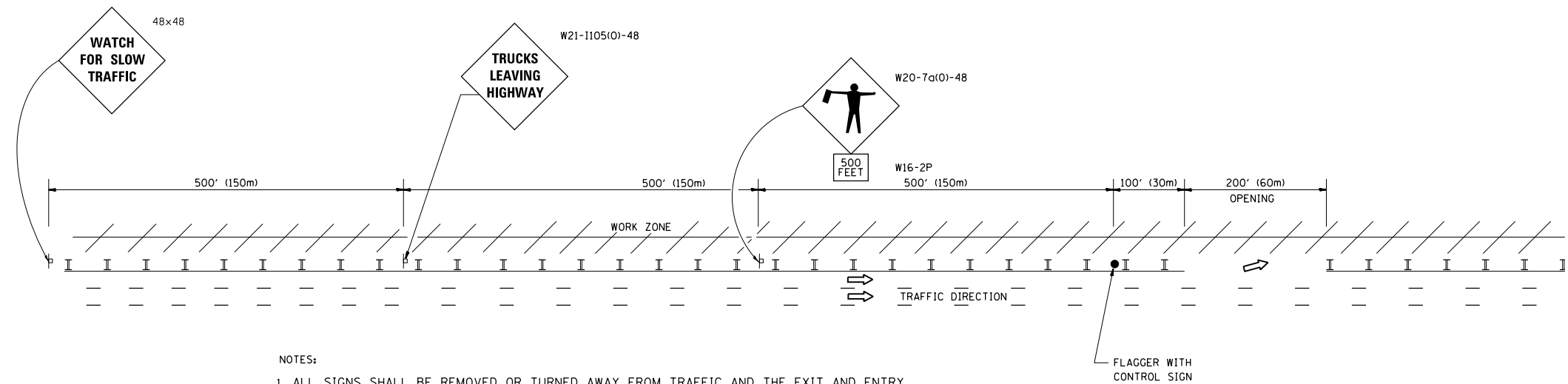


# SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

## WORK ZONE EXIT OPENING



## WORK ZONE ENTRY OPENING



**NOTES:**

1. ALL SIGNS SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
2. WORK ZONE OPENINGS SHALL BE A MINIMUM OF ONE HALF MILE APART AND A MINIMUM OF ONE QUARTER MILE FROM ALL ENTRANCE AND EXIT RAMP.
3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS
5. FLAGGERS SHALL NOT STOP TRAFFIC OR DIRECT TRAFFIC INTO AN ADJACENT LANE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

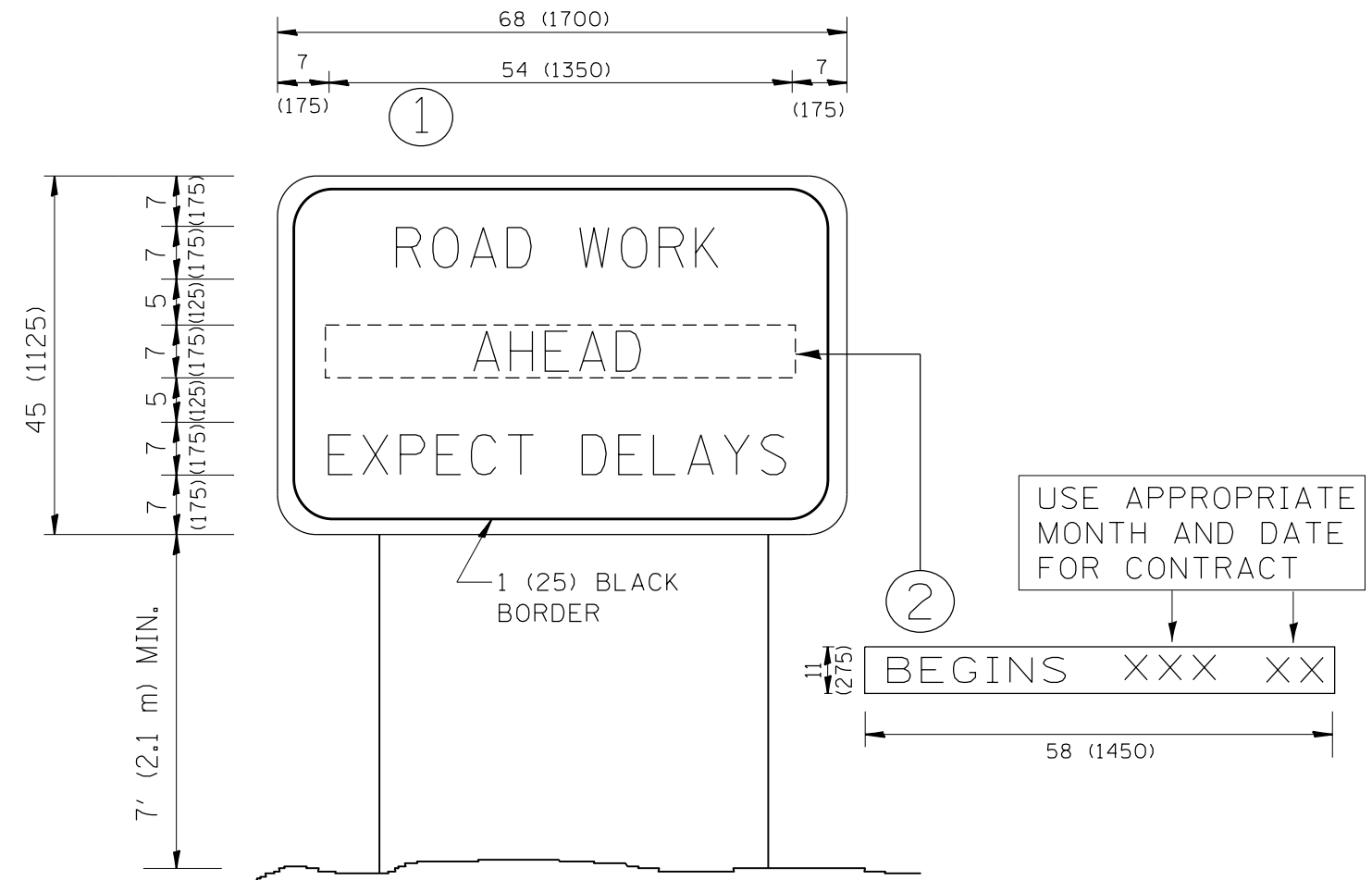
FILE NAME =	USER NAME = poc1echal	DESIGNED -	REVISED - J.A.F. 02-06
pw:\IL\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\M600918\Drawings\Traffic\M600918-shr-genno		DRAWN -	REVISED - S.P.B. 01-07
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - S.P.B. 12-09
	PLOT DATE = 8/16/2018	DATE -	REVISED - M.D. 06-13

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FREEWAY/EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS  
AT WORK ZONE OPENINGS ON FREEWAYS/EXPRESSWAYS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D-1 OVD SIN STR REPL 18-35		COOK	79	78
<b>TC-18</b>			<b>CONTRACT NO. 46473</b>	
ILLINOIS FED. AID PROJECT				



**NOTES:**

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = poc1echal	DESIGNED -	REVISED - R. MIRS 09-15-97	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ARTERIAL ROAD INFORMATION SIGN</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\1\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\M6000918-18-35\Drawings\Traffic\M6000918-shr-genno	DRAWN	REVISED - R. MIRS 12-11-97	D-1 OVD SIN STR REPL 18-35			COOK	79	79		
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99			<b>TC-22</b>		CONTRACT NO. 46473		
	PLOT DATE = 8/16/2018	DATE -	REVISED - C. JUCIUS 01-31-07			ILLINOIS	FED. AID PROJECT			
					SCALE: NONE	SHEET 1	OF 1 SHEETS	STA.	TO STA.	