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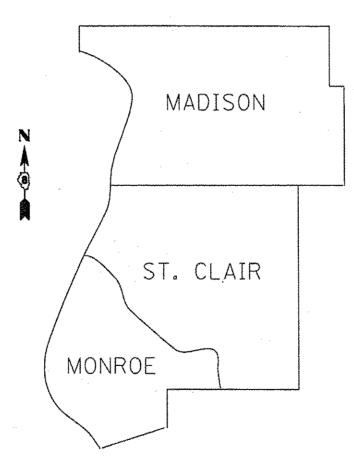
STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

**DIVISION OF HIGHWAYS** 

PROPOSED HIGHWAY PLANS

VARIOUS ROUTES
D-8 OVD SIN STR REPL 16-30
MADISON, ST. CLAIR &
MONROE COUNTIES
C-60-030-16



FOR LOCATION MAPS, SEE SHEET NOS. 7-9
NOT TO SCALE

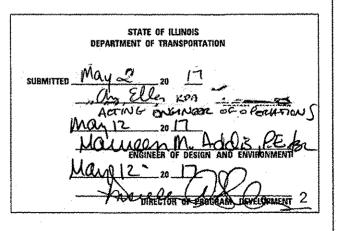
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• 0-8 DVD SIN STR REPL 15-30 ILLINOIS CONTRACT NO. 46388

D-8





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FOR INDEX OF SHEETS, SEE SHEET NO. 2



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

PROJECT ENGINEER: TIM PADGETT (618) 346-3325 PROJECT MANAGER: DIANA MURRAY (618) 346-3207

CONTRACT NO. 46388

### **INDEX OF SHEETS**

- 1. COVER SHEET
- 2. INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES, ADT & COMMITMENTS
- 3. UTILITY INFORMATION
- 4-6. SUMMARY OF QUANTITIES
- 7-9. SCOPE OF WORK AND LOCATION MAPS
- 10-12. SCHEDULE OF QUANTITIES
- 13. OVERHEAD SIGN STRUCTURE, WALKWAY, ROCK EXCAVATION AND ELECTRIC SCHEDULES
- 14. GUIDE SIGN SCHEDULE
- 15–23. SIGN PANEL DETAILS
- 24-26. SHOULDER MOUNT DETAILS
- 27–28. GUARDRAIL DETAILS
- 29-38. OVERHEAD SIGN STRUCTURE SPAN BASE SHEETS
- 39-47. OVERHEAD SIGN STRUCTURE CANTILEVER BASE SHEETS

TRAFFIC CONTROL DEVICES

SIGN PANEL MOUNTING DETAILS

SIGN PANEL ERECTION DETAILS

**CONCRETE FOUNDATION DETAILS** 

SIGN PANEL EXTRUDED ALUMINUM TYPE

- 48-49. BREAK-AWAY WIDE FLANGE STEEL SIGN POST DETAIL AND TABLES
- 50-53. BORING LOGS

### **HIGHWAY STANDARDS**

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
701101–05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5M) TO 24'(600MM) FROM PAVEMENT EDGE
701400-09	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401–10	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411–09	LANE CLOSURE, MULTILANE, AT ENTRANCES OR EXIT RAMP FOR SPEEDS $\geq$ 45MPH
701422-09	LANE CLOSURE, MULTILANE, FOR SPEEDS ≥ 45 MPH TO 55 MPH
701446–08	TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
701451–04	RAMP CLOSURE FREEWAY/EXPRESSWAY
701456–04	PARTIAL EXIT RAMP CLOSURE FREEWAY/EXPRESSWAY

### **GENERAL NOTES**

701601-09

701901-06

720001-01

720006-04

720021-02

878001-10

- 1. SEE SHEET 3 FOR UTILITY INFORMATION.
- 2. THE CONTRACTOR AND THE ENGINEER SHALL BE AWARE THAT NO SURVEY WAS PERFORMED FOR THIS PROJECT.

  THE STATIONING, TOPOGRAPHY, AND QUANTITIES SHOWN IN THE PLANS WERE CREATED USING MICROFILM AND
  FIELD MEASUREMENTS. ALL SHALL BE ASSUMED TO BE APPROXIMATE. THE CONTRACTOR SHALL VERIFY DIMENSIONS
  AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN

- 3. SHOULDER MOUNT LOCATIONS AS INDICATED IN THE PLANS ARE APPROXIMATE AND MAY BE DEVIATED WITHIN 25 FT.
  ALONG THE CENTERLINE OF THE ROADWAY FOR UTILITY PURPOSES AS DIRECTED BY THE RESIDENT ENGINEER.
- 4. FOR ALL LOCATIONS AS INDICATED IN THE PLANS, REMOVE OVERHEAD SIGN STRUCTURE SPAN INCLUDES REMOVAL OF SIGN TRUSS,
  STRUCTURAL STEEL SUPPORTS AND ELECTRICAL SERVICE INSTALLATION. REMOVAL OF ELECTRIC SERVICE INSTALLATION WILL BE PAID FOR
  SEPARATELY FOR LOCATION NO. 9.
- 5. ALL SURPLUS EXCAVATION DUE TO THE CONSTRUCTION OF THE DRILLED SHAFTS AND CONCRETE FOUNDATIONS MUST REMAIN ON THE PROJECT SITE. THE CONTRACTOR SHALL GRADE THE DISPOSED EXCAVATION TO THE SATISFACTION OF THE ENGINEER AND THE AREA MUST BE SEEDED CLASS 2A, FERTILIZED, AND MULCHED ACCORDING TO SECTION 250 AND 251 OF THE STANDARD SPECIFICATIONS. THIS WORK WILL BE INCLUDED IN THE COST PER CUBIC YARD FOR THE PAY ITEM DRILLED SHAFT CONCRETE FOUNDATIONS OR CONCRETE FOUNDATIONS.
- 6. THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION—RELATED SKILLS, E.G., MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSEWORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL—TRAINED AND READY TO BECOME PRODUCTIVE ENTRY—LEVEL CONSTRUCTION WORKERS. CONTACT THE DISTRICT EEO OFFICE AT 618—346—3360 AND/OR THE HCCTP COORDINATOR AT 618—874—6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.
- 7. ALL REMOVAL OF ELECTRICAL INSTALLATION ITEMS SHALL BECOME THE PROPERTY OF THE CONTRACTOR FOR DISPOSAL OR SALVAGE.
- 8. NO OVERNIGHT LANE CLOSURES WILL BE PERMITTED.

### TRAFFIC DATA

LOC. NO. 1:	IL 3 - GREAT RIVER RD. (\$\text{S/N}\$ 8\$060\$\$003\$\$L015.9)  2015 ADT = 12300	LOC. NO. 7:	IL 3 SB AT IL 158 (S/N 8S067S003L018.6) 2015 ADT = 21600 SU = 5.2% 2017 ADT = 22000 MU = 3.8% 2037 ADT = 26900 DD = SB 50% /NB 50%
LOC. NO. 2:	IL 111 AT STANLEY RD. (S/N 8S060S111L019.9) 2015 ADT = 13800 SU = 6.7% 2017 ADT = 14100 MU = 4.3% 2037 ADT = 17200 DD = 50% /50%	LOC. NO. 8:	155/70 EB AT EXIT TO 64 (\$\text{SN} 8\$0821055R002.5)
LOC. NO. 3:	IL 111 POWDERMILL RD. (\$\text{SN} 8\$06111L020.3) 2015 ADT = 13800	LOC. NO. 9:	1270 WB AT EXIT 7A (\$\text{S}\tau\$) 8\$0601270L007.2)   2015 ADT = 52500
LOC. NO. 4:	IL 158 WB AT IL 3 (S/N 8S067S158L004.4) 2015 ADT = 9050 SU = 12.7% 2017 ADT = 9200 MU = 3.3% 2037 ADT = 11300 DD = 50% /50%	LOC. NO. 10:	155/70 WB W
LOC. NO. 5:	IL 203 NB TO 155/70 (\$\text{N} 8\$060\$203\$R001.3) 2013 ADT = 7300	LOC. NO. 11:	155/70 WB W OF ST C (\$\text{S}\text{N} 850821055L002.19)
LOC. NO. 6:	IL 3 SB AT PONTOON RD. (\$\sqrt{N}\$ 8\$060\$\$003\$\$L006.9)  2015 ADT = 17400	LOC. NO. 12:	155/70 EB AT 164 SPLIT (\$\text{SN 8S0821055R002.4})

### **COMMITMENTS**

ANY EARTH EXCAVATION WITHIN THE PROJECT LIMITS RESULTING IN SURPLUS MATERIAL SHALL BE PLACED ON RIGHT-OF-WAY WITHIN THE PROJECT LIMITS AND SHALL NOT BE DISPOSED OF OFF-SITE.

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Default	PLOT DATE = 10/31/2016	DATE -	REVISED -		SCALE: SHEET 1 OF 1 SHEETS STA TO STA	ILLINOIS FED. AID PROJECT

ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES WITHIN THE PROJECT LIMITS BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOW TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

		SIGN TRUSS UTILITY INFORMATIO	N	
NO.	1	2	3	4
RECORD	00288	00183	00184	00035
STRUCTURE NO.	8S060S003L015.9	8S060S111L019.9	8S060S111R020. 3	8S067S158L004.4
LOCATION	IL 3 - GREAT RIVER RD.	IL 111 @ STANLEY RD.	IL 111@ POWDERMILL RD.	IL 158 WB @ IL 3
	BP PIPELINES NORTH AMERICA INC (GAS)	CITY OF ALTON (L&S)	CITY OF ALTON (L&S)	COLUMBIA OF CITY OF (S&W)
	ATT/DISTRIBUTION (PHONE)	ATT/DISTRIBUTION (PHONE)	ATT/DISTRIBUTION (PHONE)	CHARTER COMMUNICATIONS (CATV)
	AMEREN IP (G&E)	IAWC-ALTON DISTRICT (WATER)	IAWC-ALTON DISTRICT (WATER)	HARRISONVILLE TELEPHONE CO. (PHONE)
	MOGAS PIPELINE LLC (PIPELINE)	AMEREN IP (G&E)	AMEREN IP (G&E)	IAWC - E. ST. LOUIS DISTRICT (WATER)
UTILITIES	ENABLE MISSISSIPPI RIVER GAS TRANSMISSION (PIPELINE)	CHARTER COMMUNICATIONS (CATV)	CHARTER COMMUNICATIONS (CATV)	AMEREN IP (G&E)
	CHARTER COMMUNICATIONS (CATV)			
	CITY OF WOOD RIVER (S&W)			

		SIGN TRUSS UTILITY INFORMATION	
NO.	5	6	7
RECORD	00191	00295	00307
TRUCTURE NO.	8S082S203R001.3	8S060S003L006. 9	8S067S003L018.6
OCATION	IL 203 NB to 55/70	IL 3 SB @ Pontoon Rd.	IL 3 SB @ IL 158
	ATT/DISTRIBUTION (PHONE)	ATT/DISTRIBUTION (PHONE)	COLUMBIA CITY OF (S&W)
	E. ST. LOUIS CITY OF (L)	CHARTER COMMUNICATIONS (CATV)	CHARTER COMMUNICATIONS (CATV)
	IAWC - E. ST. LOUIS DISTRICT (WATER)	GRANITE CITY CITY OF (SEWER)	HARRISONVILLE TELEPHONE CO. (PHONE)
	CHARTER COMMUNICATIONS (CATV)	IAWC - GRANITE CITY DISTRICT (WATER)	IAWC - E. ST. LOUIS DISTRICT (WATER)
UTILITIES	MEDIACOM (CATV)	AMEREN IP (G&E)	AMEREN IP (G&E)
		LEVEL 3 COMMUNICATIONS (FIBER)	
		MADISON COUNTY SANITARY SEWERS (SEWER)	
		MADISON CITY OF (SEWER)	
		ENABLE MISSISSIPPI RIVER GAS TRANSMISSION ( PIPELINE)	

MEMBERS OF J. U. L. I. E. CALL TOLL FREE NUMBER (800) 892-0123 OR 811. NON-J. U. L. I. E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.

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### CONSTRUCTION CODE

✓URBAN
TRAFFIC SIGNS

		milli de la descripto de la de								
			TOTAL	✓M/	ADISON COU	VTY	ST. CLAI	R COUNTY	-MONROE	COUNTY
CODE NO	ITEM	UNIT	QUANTITY	FAI 270	FAP IL 3	FAP IL 111	FAI 55	FAP IL 203	FAP IL 3	FAP IL 158
44004000	PAVED DITCH REMOVAL	FOOT	50			SE PARTIE			50	
50200400	ROCK EXCAVATION FOR STRUCTURES	CU YD	13.42						3.82	9,60
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	37.5					^	37.5	
63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1						1	
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1						1	
63200310	GUARDRAIL REMOVAL	FOOT	140						140	
67100100	MOBILIZATION	LSUM		0.09	0.16	0.16	0.32	0,09	0.09	0.09
70100205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	EACH	5	1			4			
70100315	TRAFFIC CONTROL AND PROTECTION, STANDARD 701422	EACH	7		2	2		1	1	1
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	4				2		1	1
70100430	TRAFFIC CONTROL AND PROTECTION, STANDARD 701446	EACH	5	1			4			
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	LSUM	1	0.2			0.8			
70100820	TRAFFIC CONTROL AND PROTECTION, STANDARD 701451	LSUM	4		0.25			0.25	0.25	0.25
70100825	TRAFFIC CONTROL AND PROTECTION, STANDARD 701456	LSUM	1		0.25			0.25	0.25	0.25

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CODE NO.	ITEM	UNIT	TOTAL	FAI 270	FAP IL 3	FAP IL 111	FAI 55	FAP IL 203	FAP IL 3	FAP IL 158	
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	<b>X</b>	0.09	0.16	0.16	0.32	0.09	0.09	0.09	
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	LSUM	4		0.20	0.40		0.20		0.20	
X70 5005	CHANGEABLE MESSAGE SIGN	CAL PA	28	14	-		14				
70200100	NIGHTTIME WORK ZONE LIGHTING	LSUM	1	0.2	Constitution of the Consti		0.8				
72000100	SIGN PANEL - TYPE 1	SQ FT	25.7	,	10.2	12.4				3.1	
72000200	SIGN PANEL - TYPE 2	SQ FT	67.8		11.3	45.2	-			11.3	
72000300	SIGN PANEL - TYPE 3	SQ FT	1599	399	361	129		300	202	208	
72400330	REMOVE SIGN PANEL - TYPE 3	SQ FT	336	336							
72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	5770		3988	1080		702			
73000100	WOOD SIGN SUPPORT	FOOT	88.6		31.3	41				16.3	
73300100	OVERHEAD SIGN STRUCTURE - SPAN, TYPE I-A (4'-0" X 4'-6")	FOOT	80						80		
73300200	OVERHEAD SIGN STRUCTURE - SPAN, TYPE II-A (4'-6" X 5'-3")	FOOT	108							108	
73301810	OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	FOOT	704	84			490	32	52	46	
73302210	OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE III-C-A (36" X 7'-0")	FOOT	39					39			

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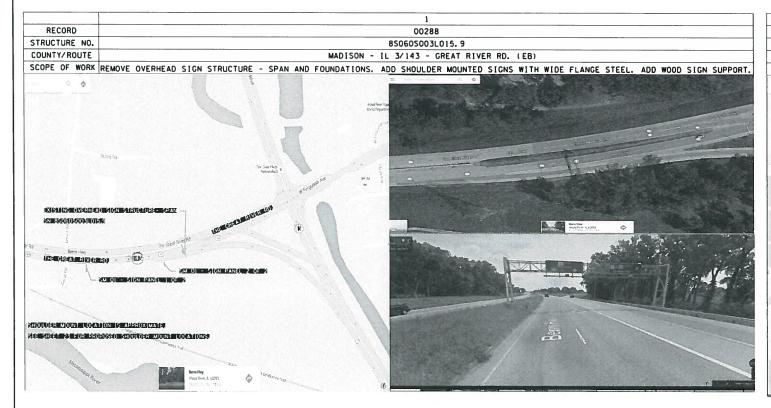
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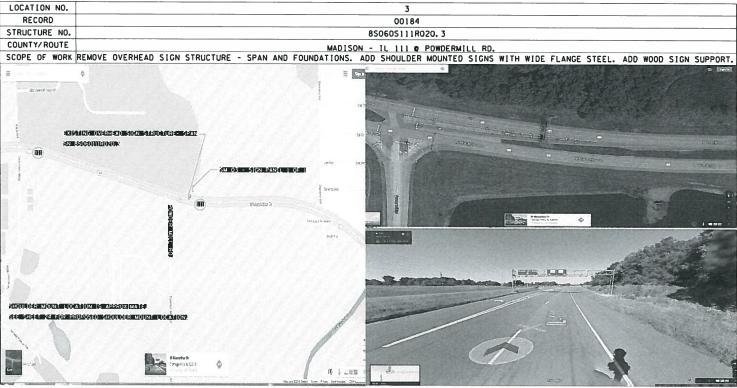
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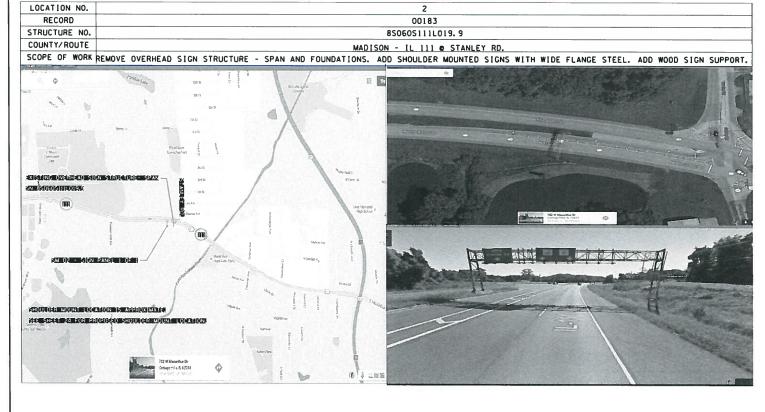
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				URBAN TRAFFIC SIGNS 0021							
CODE NO	ITEM	UNIT	TOTAL QUANTITY	FAI 270	ADISON COUNTY FAP IL 3	FAP IL 111	ST. CLAI FAI 55	FAP IL 203	MONROS FAP IL 3	FAP IL 158	
73400100	CONCRETE FOUNDATIONS	CU YD	17.88		10.32	3.76		3.80			
73400200	DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	57					14.8	17.7	24.5	
73600100	REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	7		2	2		1	1	1	
73700300	REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	14		Ĝ.	4		2	2	2	
84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1	1	To the state of th						
X0326998	FURNISH AND INSTALL HANDRAIL	FOOT	704	84	W was a second		490	32	52	46	
X6061460	PAVED DITCH (SPECIAL)	FOOT	50						50		
X7010410	SPEED DISPLAY TRAILER	CAL MO	3	1			2			*	
X8040310	ELECTRICAL SERVICE DISCONNECT	EACH	8	1	2	2		1	1	1	
Z0013798	CONSTRUCTION LAYOUT	LSUM		0.09	0.16	0.16	0.32	0.09	0.09	0.09	

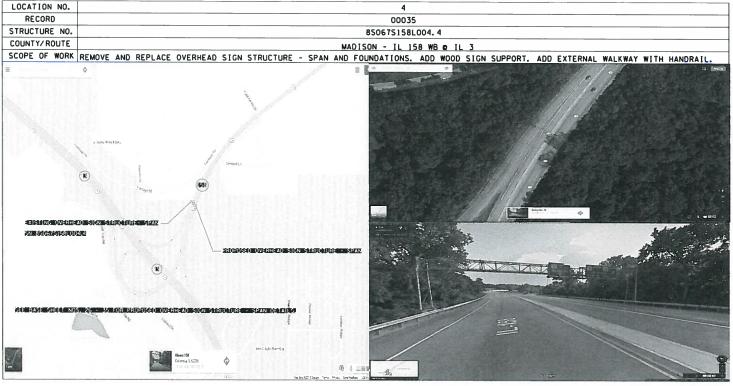
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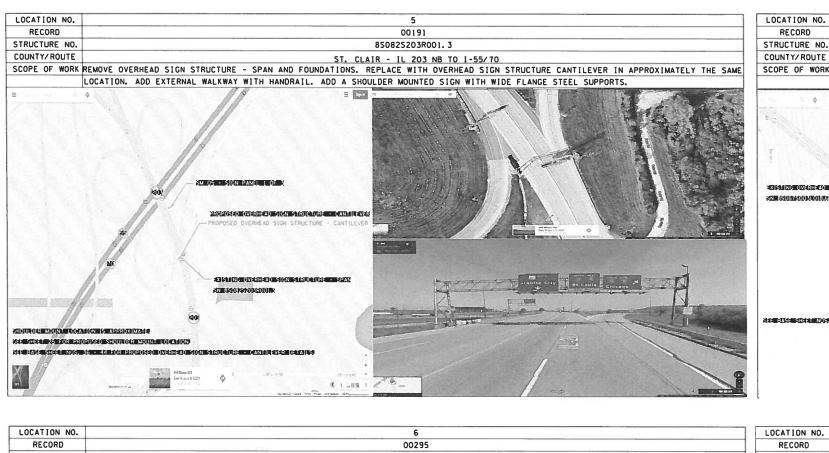


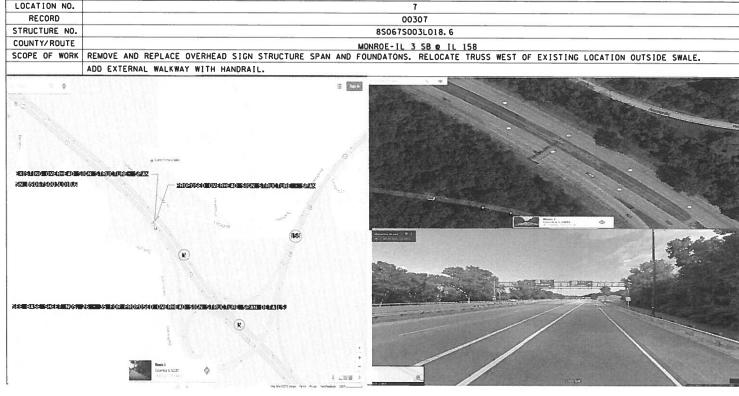


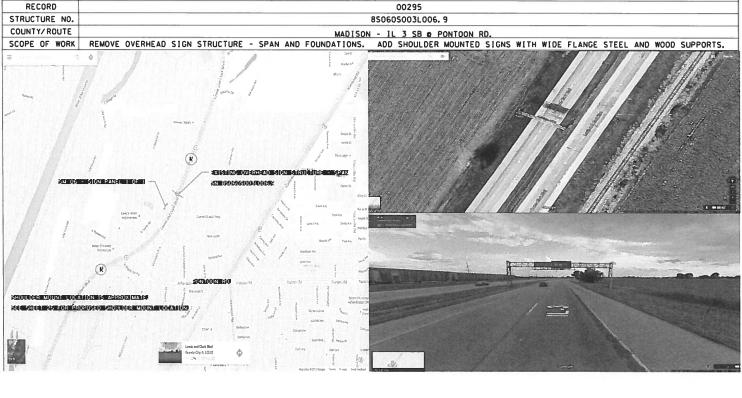
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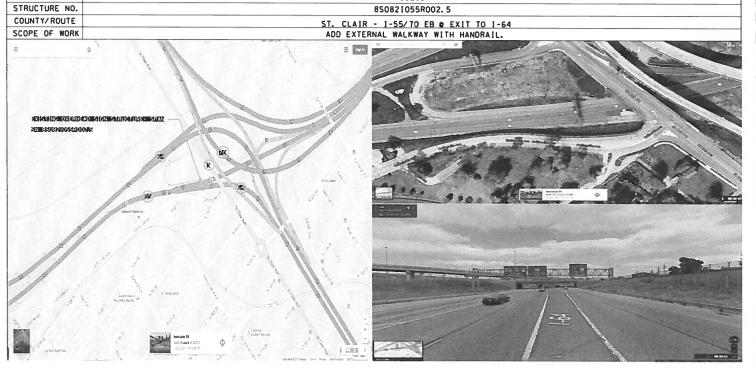
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SCOPE OF WORK AND LOCATION MAPS	VAR	•	VARIOUS	53	7
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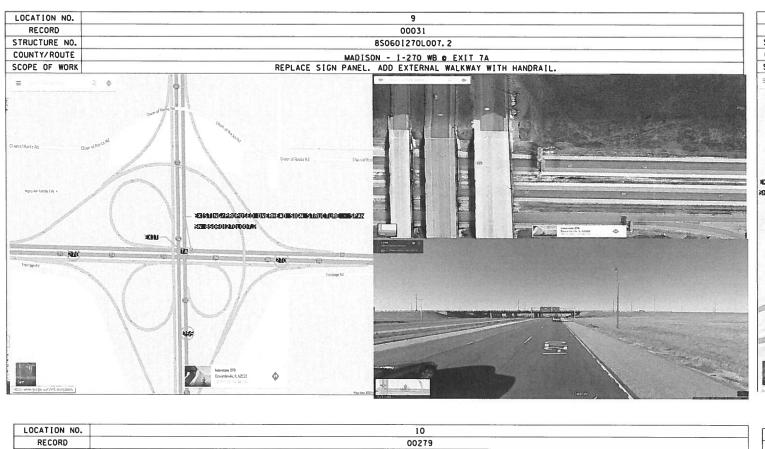
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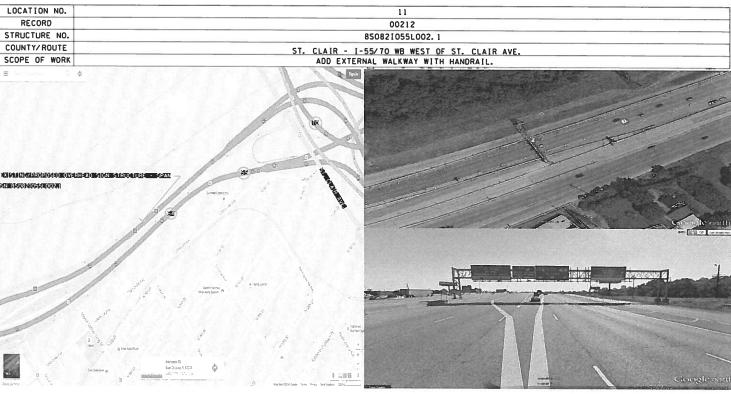
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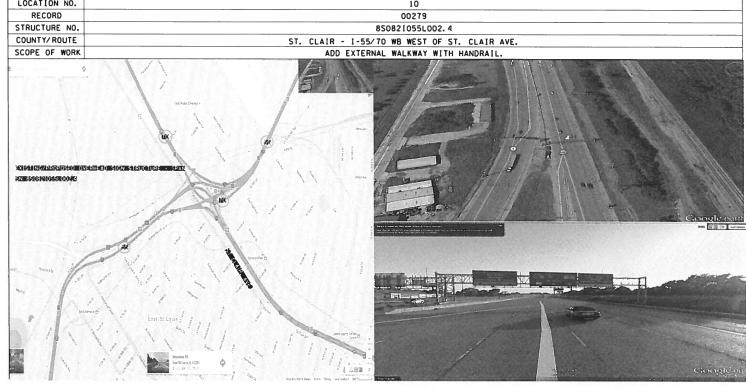
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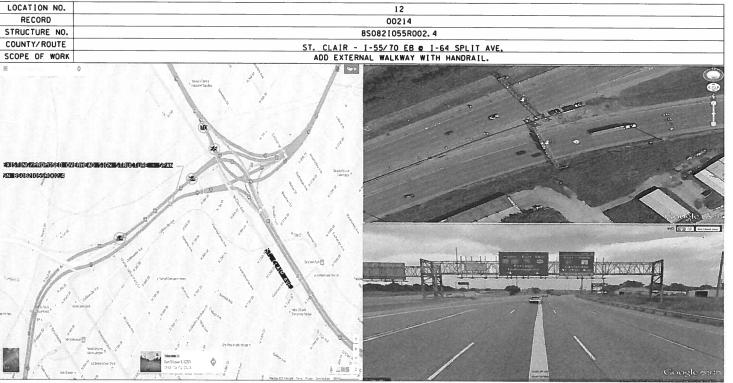
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Default	PLOT DATE = 11/17/2016	DATE	REVISED	-

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

	COORE O	E MODI	AND I			RTE.		S	ECTION		COUNTY	SHEET	
	SCOPE 0	r work	AND L	OCATION MAPS		VAR			•		VARIOUS	53	
						• D-8	OVD	SIN	STR REPL	16-30	CONTRACT	NO.	4
SCALE:	SHEET 3	OF 3	SHEETS	STA	TO STA				ILLINOIS	S FED. A	ID PROJECT		

LOCATION 1		
8S060S003L015.9		
COUNTY: MADISON ROUTE: IL 3/143 - GREAT RIVE	R RD. DIRECT	ON: EB
PAY ITEM	UNIT	QUANTITY
MOBILIZATION	LSUM	0.08
TRAFFIC CONTROL AND PROTECTION, STANDARD 701422	EACH	1
TRAFFIC CONTROL AND PROTECTION, STANDARD 701451	LSUM	0.25
TRAFFIC CONTROL AND PROTECTION, STANDARD 701456	LSUM	0.25
TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	0.08
TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	LSUM	0.20
CHANGEABLE MESSAGE SIGN	CAL MO	1
SIGN PANEL - TYPE 1	SQ FT	3.1
SIGN PANEL - TYPE 2	SQ FT	11.3
SIGN PANEL - TYPE 3	SQ FT	315
STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	3553
WOOD SIGN SUPPORT	FOOT	16.3
CONCRETE FOUNDATIONS	CU YD	8.92
REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	1
REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	2
ELECTRICAL SERVICE DISCONNECT	EACH	1
CONSTRUCTION LAYOUT	LSUM	0.08

LOCATION 2		
8S060S111L019.9		
COUNTY: MADISON ROUTE: IL 111 @ STANLEY RD.	DIRECT	ION: EB
PAY ITEM	UNIT	QUANTITY
MOBILIZATION	LSUM	0.08
TRAFFIC CONTROL AND PROTECTION, STANDARD 701422	EACH	1
TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	0.08
TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	LSUM	0.20
CHANGEABLE MESSAGE SIGN	CAL MO	1
SIGN PANEL - TYPE 1	SQ FT	6.2
SIGN PANEL - TYPE 2	SQ FT	22.6
SIGN PANEL - TYPE 3	SQ FT	63
STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	543.75
WOOD SIGN SUPPORT	FOOT	20.5
CONCRETE FOUNDATIONS	CU YD	2.36
REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	1
REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	2
ELECTRICAL SERVICE DISCONNECT	EACH	1
CONSTRUCTION LAYOUT	LSUM	0.08

LOCATION 3		
8S060S111R020.3		
COUNTY: MADISON ROUTE: IL 111 @ POWDERMIL	I RD DIRECTI	ON: WB
PAY ITEM	1	
MOBILIZATION	UNIT	QUANTITY
	LSUM	0.08
TRAFFIC CONTROL AND PROTECTION, STANDARD 701422	EACH	1
TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	0.08
TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	LSUM	0.20
CHANGEABLE MESSAGE SIGN	CAL MO	1
SIGN PANEL - TYPE 1	SQ FT	6.2
SIGN PANEL - TYPE 2	SQ FT	22.6
SIGN PANEL - TYPE 3	SQ FT	66
STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	536.25
WOOD SIGN SUPPORT	FOOT	20.5
CONCRETE FOUNDATIONS	CU YD	1.4
REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	1
REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	2
ELECTRICAL SERVICE DISCONNECT	EACH	1
CONSTRUCTION LAYOUT	LSUM	0.08

LOCATION 4		
8S067S158L004.4		
COUNTY: MONROE ROUTE: IL 158 @ IL 3	DIRECTI	ON: WB
PAY ITEM	UNIT	QUANTITY
ROCK EXCAVATION FOR STRUCTURES	CU YD	9.60
MOBILIZATION	LSUM	0.09
TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	1
TRAFFIC CONTROL AND PROTECTION, STANDARD 701422	EACH	1
TRAFFIC CONTROL AND PROTECTION, STANDARD 701451	LSUM	0.25
TRAFFIC CONTROL AND PROTECTION, STANDARD 701456	LSUM	0.25
TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	0.09
TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	LSUM	0.20
CHANGEABLE MESSAGE SIGN	CAL MO	1
SIGN PANEL - TYPE 1	SQ FT	3.1
SIGN PANEL - TYPE 2	SQ FT	11.3
SIGN PANEL - TYPE 3	SQ FT	208
WOOD SIGN SUPPORT	FOOT	16.3
OVERHEAD SIGN STRUCTURE - SPAN, TYPE II-A (4'-6" X 5'-3")	FOOT	108
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	FOOT	46
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	24.5
REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	1
REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	2
FURNISH AND INSTALL HANDRAIL	FOOT	46
ELECTRICAL SERVICE DISCONNECT	EACH	1
CONSTRUCTION LAYOUT	LSUM	0.09

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	PLOT SCALE = 100.0000 ' / 10.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	Solizable of Continues	VAR	STR REPL 16-30 CON	NTRACT NO.	3 10
Default	PLOT DATE = 11/17/2016	DATE -	REVISED -		SCALE: SHEET 1 OF 3 SHEETS STA TO STA	- D-6 OVD 3IN	ILLINOIS FED. AID PROJE		. 40300

LOCATION 5		
8S082S203R001.3		
COUNTY: ST. CLAIR ROUTE: IL 203 TO I-55/70	DIRECTI	ON: NB
PAY ITEM	UNIT	QUANTITY
MOBILIZATION	LSUM	0.09
TRAFFIC CONTROL AND PROTECTION, STANDARD 701422	EACH	1
TRAFFIC CONTROL AND PROTECTION, STANDARD 701451	LSUM	0.25
TRAFFIC CONTROL AND PROTECTION, STANDARD 701456	LSUM	0.25
TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	0.09
TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	LSUM	0.20
SIGN PANEL - TYPE 3	SQ FT	300
STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	702
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	FOOT	32
OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE III-C-A (36"	X 7'-₽Ö)OT	39
CONCRETE FOUNDATIONS	CU YD	3.8
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	14.8
REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	1
REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	2
FURNISH AND INSTALL HANDRAIL	FOOT	32
ELECTRICAL SERVICE DISCONNECT	EACH	1
CONSTRUCTION LAYOUT	LSUM	0.09

LOCATION 6		
8S060S003L006.9		
COUNTY: MADISON ROUTE: IL @ PONTOON R	D. DIRECT	ION: SB
PAY ITEM	UNIT	QUANTITY
MOBILIZATION	LSUM	0.08
TRAFFIC CONTROL AND PROTECTION, STANDARD 701422	EACH	1
TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	0.08
CHANGEABLE MESSAGE SIGN	CAL MO	1
SIGN PANEL - TYPE 1	SQ FT	7.1
SIGN PANEL - TYPE 3	SQ FT	46
STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	435
WOOD SIGN SUPPORT	FOOT	15
CONCRETE FOUNDATIONS	CU YD	1.4
REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	1
REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	2
ELECTRICAL SERVICE DISCONNECT	EACH	1
CONSTRUCTION LAYOUT	LSUM	0.08

LOCATION 7		
8S067S003L018.6		
COUNTY: MONROE ROUTE: IL 3 @ IL 158	DIRECT	ION: SB
PAY ITEM	UNIT	QUANTITY
PAVED DITCH REMOVAL	FOOT	50
ROCK EXCAVATION FOR STRUCTURES	CU YD	3.82
STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	37.5
TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1
TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1
GUARDRAIL REMOVAL	FOOT	140
MOBILIZATION	LSUM	0.09
TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	1
TRAFFIC CONTROL AND PROTECTION, STANDARD 701422	EACH	1
TRAFFIC CONTROL AND PROTECTION, STANDARD 701451	LSUM	0.25
TRAFFIC CONTROL AND PROTECTION, STANDARD 701456	LSUM	0.25
TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	0.09
CHANGEABLE MESSAGE SIGN	CAL MO	1
SIGN PANEL - TYPE 3	SQ FT	202
OVERHEAD SIGN STRUCTURE - SPAN, TYPE I-A (4'-0" X 4'-6")	FOOT	80
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	FOOT	52
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	17.7
REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	1
REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	2
FURNISH AND INSTALL HANDRAIL	FOOT	52
PAVED DITCH (SPECIAL)	FOOT	50
ELECTRICAL SERVICE DISCONNECT	EACH	1
CONSTRUCTION LAYOUT	LSUM	0.09

LOCATION 8	*	
8S082I055R002.5		
COUNTY: ST. CLAIR ROUTE: I-55/70 @ EXIT TO I-64	4 DIRECT	ION: EB
PAY ITEM	UNIT	QUANTITY
MOBILIZATION	LSUM	0.08
TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	EACH	1
TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	1
TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	LSUM	0.20
TRAFFIC CONTROL AND PROTECTION, STANDARD 701446	EACH	1
TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	0.08
NIGHTTIME WORK ZONE LIGHTING	LSUM	0.20
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	FOOT	126
FURNISH AND INSTALL HANDRAIL	FOOT	126
SPEED DISPLAY TRAILER	CAL MO	0.50
CONSTRUCTION LAYOUT	LSUM	0.08

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STATE OF ILLINOIS							
DEPARTMENT	<b>OF</b>	TRANSPORTATION					

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	SCHEDULE OF QUANTITIES						VAR	•	VARIOUS	53	11	
								• D-8	OVD SIN STR REPL 16-30	CONTRAC	T NO.	46388
	SCALE:	SHEET 2	2 OF	3	SHEETS	STA	TO STA	ILLINOIS FED. AID PROJECT				

LOCATION 9		
8S060I270L007.2		
COUNTY: MADISON ROUTE: I-270 @ EXIT 7A	DIRECTI	ON: WB
PAY ITEM	UNIT	QUANTITY
MOBILIZATION	LSUM	0.09
TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	EACH	1
TRAFFIC CONTROL AND PROTECTION, STANDARD 701406		0.20
TRAFFIC CONTROL AND PROTECTION, STANDARD 701446	EACH	1
TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	0.09
NIGHTTIME WORK ZONE LIGHTING	LSUM	0.20
SIGN PANEL - TYPE 3	SQ FT	399
REMOVE SIGN PANEL - TYPE 3	SQ FT	336
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	FOOT	84
REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1
FURNISH AND INSTALL HANDRAIL	FOOT	84
SPEED DISPLAY TRAILER	CAL MO	1
ELECTRICAL SERVICE DISCONNECT	EACH	1
CONSTRUCTION LAYOUT	LSUM	0.09

LOCATION 10		***
8S082I055L002.4		
COUNTY: ST. CLAIR ROUTE: I-55/70 WEST OF ST. C	LAIR DIRECTI	ON: WB
PAY ITEM	UNIT	QUANTITY
MOBILIZATION	LSUM	0.08
TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	EACH	1
TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	LSUM	0.20
TRAFFIC CONTROL AND PROTECTION, STANDARD 701446	EACH	1
TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	0.08
NIGHTTIME WORK ZONE LIGHTING	LSUM	0.20
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	FOOT	130
FURNISH AND INSTALL HANDRAIL	FOOT	130
SPEED DISPLAY TRAILER	CAL MO	0.50
CONSTRUCTION LAYOUT	LSUM	0.08

LOCATION 11	· · · · · · · · · · · · · · · · · · ·					
8S082I055L002.1						
COUNTY: ST. CLAIR ROUTE: I-55/70 WEST OF ST. C	LAIR DIRECTI	ON: WB				
PAY ITEM	UNIT	QUANTITY				
MOBILIZATION	LSUM	0.08				
TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	EACH	1				
TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	LSUM	0.20				
TRAFFIC CONTROL AND PROTECTION, STANDARD 701446	EACH	1				
TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	0.08				
NIGHTTIME WORK ZONE LIGHTING	LSUM	0.20				
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	FOOT	142				
FURNISH AND INSTALL HANDRAIL	FOOT	142				
SPEED DISPLAY TRAILER	CAL MO	0.50				
CONSTRUCTION LAYOUT	LSUM	0.08				

LOCATION 12		
8S082I055R002.4		
COUNTY: ST. CLAIR ROUTE: I-55/70 @ I-64 SPLIT	DIRECT	ION: EB
PAY ITEM	UNIT	QUANTITY
MOBILIZATION	LSUM	0.08
TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	EACH	1
TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	1
TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	LSUM	0.20
TRAFFIC CONTROL AND PROTECTION, STANDARD 701446	EACH	1
TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	0.08
NIGHTTIME WORK ZONE LIGHTING	LSUM	0.20
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	FOOT	92
FURNISH AND INSTALL HANDRAIL	FOOT	92
SPEED DISPLAY TRAILER	CAL MO	0.50
CONSTRUCTION LAYOUT	LSUM	0.08

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STATI	E 01	F ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

-	SCHEDINE OF QUANTITIES						F.A RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
	SCHEDULE OF QUANTITIES							•	VARIOUS	53	12
							• D-B	OVD SIN STR REPL 16-30	CONTRACT	NO. 4	46388
	SCALE:	SHEET 3	OF 3	SHEETS	STA	TO STA.	ILLINOIS FED. AID PROJECT				

	OVERHEAD SIGN STRUCTURE SCHEDULE												
LOCATION	STRUCTURE NO.	REMOVE CONCRETE FOUNDATION OVERHEAD	REMOVE OVERHEAD SIGN STRUCTURE SPAN	OVERHEAD SIGN STRUCTURE SPAN TYPE I-A	OVERHEAD SIGN STRUCTURE SPAN TYPE II-A	OVERHEAD SIGN STRUCTURE CANTILEVER TYPE III-C-A	REMOVE SIGN PANEL TYPE 3						
		EA	EA	FT	FT	FT	SQ FT						
LOCATION NO. 1	8S060S003L015.9	2	1										
LOCATION NO. 2	8S060S111L019.9	2	1										
LOCATION NO. 3	8S060S111R020.3	2	1										
LOCATION NO. 4	8S067S158L004.4	2	1		108								
LOCATION NO. 5	8S082S203R001.3	2	1			39							
LOCATION NO. 6	8S060S003L006.9	2	1										
LOCATION NO. 7	8S067S003L018.6	2	1	80									
LOCATION NO. 9	8S0601270L007.2						336						
TO	ΓAL	14	7	80	108	39	336						

0	VERHEAD SIGN STRUCT	JRE WALKWAY SCHEDU	JLE
LOCATION	STRUCTURE NO.	OVERHEAD SIGN STRUCTURE WALKWAY TYPE A	FURNISH AND INSTALL HANDRAIL
		FT	FT
LOCATION NO. 4	8S067S158L004.4	46	46
LOCATION NO. 5	8S082S203R001.3	32	32
LOCATION NO. 7	8S067S003L018.6	52	52
LOCATION NO. 8	8S082I055R002.5	126	126
LOCATION NO. 9	8S06012707007.2	84	84
LOCATION NO. 10	8S082I055L002.4	130	130
LOCATION NO. 11	8S082I055L002.1	142	142
LOCATION NO. 12	8S082I055R002.4	92	92
TO	TAL	704	704

		ROCK EX	CAVATION FOR	STRUCTURES		
LOCATION	LT/RT	ROCK REFUSAL DEPTH BELOW GRADE	FOUNDATION BOTTOM DEPTH BELOW	FOUNDATION DIAMETER	NUMBER OF DRILLED SHAFTS	ROCK EXCAVATION FOR STRUCTURES
		FT	FT	FT	EA	CY
NO. 4 - IL 158 @ IL 3	LT	10.96	20.50	3.00	2	4.99
	RT	11.70	20.50	3.00	2	4.61
NO. 7 - IL 3 @ IL 158	LT	9.75	14.50	3.00	2	2.49
	RT	11.96	14.50	3.00	2	1.33
TOTAL						13.42

REMOVAL OF ELECTRIC SERVICE INSTALLATION									
LOCATION NO.	STRUCTURE NO.	UNIT	QUANTITY						
9	8S060I270L007.2	EACH	1						
	TOTAL		1						

FILE NAME =	USER NAME = murrayda	DESIGNED	REVISED		OVERHEAD SIGN STRUCTURE, WALKWAY,	F.A. SECTION	COUNTY TOTAL SHEET
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Default	PLOT DATE = 11/17/2016	DATE	REVISED -		SCALE: SHEET 1 OF 1 SHEETS STA TO STA	D-B OVD SIN STR REPL 16-30    ILLINOIS FED. AID F	CONTRACT NO. 46388

				1	GUIDE SIGN SCHEDULE  STRUCTURAL STEEL SIGN SUPPORT - BREAK AWAY																	
1004	ATION						PROPO				STRUC	TURAL STE	EL SIGN SU	POST NUMBER TOTAL WEIGHT		WAY			ONCRETE ONCRETE		DEINIFORCE	
LOCA	ATION	DESCRIPTION	PROPOSED	PROPOSED			SIGN PA	ANEL		WOOD SIGN SUPPORT	NUMBER OF		STUB POSTS				FOUND	ATIONS		ATIONS	REINFORCE	MENI BAK
STATION	OFFSET TO EDGE OF NEW PANEL FROM		SUPPORT TYPE	STANDARD	W	H	TY 1	TY 2 SF	TY 3	FT	POSTS	SIZE	FT			LB	EACH	TOTAL	EACH	TOTAL	EACH LB	TOTAL LB
OCATION NO. 1 FASTRO	EOP DUND IL 143 @ IL 3 (85060	50031015 0)						J.	3,				L ''	1					Ci		LB	
OCATION NO. 1 - EASTED	DUND IL 143 @ IL 3 (83000	ARROW UP WOOD RIVER / GRANITE CITY NEXT RIGHT	WIDE FLANGE STEEL		162	138			155		2.0	W14 x 38	3.5	25.5	28.3	2042.50	2.23	4.46			122	244
		ARROW UP WOOD RIVER / GRANITE CITY ARROW RT @ 45°	WIDE FLANGE STEEL		192	120			160		2.0	W14 x 30	3.0	26.5	23.9	1510.50	2.23	4.46			113	226
		EAST	WOOD SIGN SUPPORT	M3-2	30	15	3.1			16.3												
		IL 143	ON TREE WITH ABOVE	M1-I100	45	36		11.3														
LOCATION NO. 2 - EASTBO	OUND IL 140 / SOUTHBOU	ND IL 111 @ STANLEY ROAD (85060S111	L019.9)					1									-			l.		
		NORTH STANLEY RD NEXT LEFT	WIDE FLANGE STEEL	1	126	72			63		2.0	W6 x 15	2.5	17.5	18.8	543.75	1.18	2.36			78	156
		EAST	WOOD SIGN SUPPORT	M3-2	30	15	3.1			20.5												
		IL 140	ON TREE WITH ABOVE	M1-I100	45	36		11.3									<u> </u>					
		SOUTH	ON TREE WITH ABOVE	M3-3	30	15	3.1															
		IL 111	ON TREE WITH ABOVE	M1-I100	45	36		11.3														
LOCATION NO. 3 - WESTB	SOUND IL 140 / NORTHBOL	UND IL 111 @ POWDER MILL ROAD (8506						1			,			1			L		L	1		
*		POWDER MILL ROAD NEXT LEFT	WIDE FLANGE STEEL		132	72		i	66		2.0	W6 x 15	2.5	18.0	17.8	536.25	0.70	1.40			78	156
		NORTH	WOOD SIGN SUPPORT	M3-1	30	15	3.1			20.5												
		IL 111	ON TREE WITH ABOVE	M1-I100	45	36		11.3														
		WEST	ON TREE WITH ABOVE	M3-4	30	15	3.1															
		IL 140	ON TREE WITH ABOVE	M1-I100	45	36		11.3									-					
LOCATION NO. 4 - WESTB	30UND IL 158 @ IL 3 (8S06	7S158L004.4)											1				.1.			ı		
		IL 3 SOUTH WATERLOO ARROW DN	SPAN TRUSS		114	96			76					T					12.25	24.50	1060	4240.0
		IL 3 NORTH JB BRIDGE EAST ST LOUIS ARROW RT @ 45°	ON ABOVE TRUSS		198	96			132													
		END	WOOD SIGN SUPPORT	M4-6	30	15	3.1			16.3				1								
		IL 158	ON TREE WITH ABOVE	M1-I100	45	36		11.3														
LOCATION NO. 5 - NORTH	HBOUND IL 203 @ 1-55/70	(850825203R001.3)											·									
		NORTH IL 203 GRANITE CITY	WIDE FLANGE STEEL		156	72			78		2.0	W8 x 18	2.5	18.3	20.8	702.00	1.90	3.80			78	156
		SOUTH I-55 WEST I-70 ARROW DN ST LOUIS EXIT ONLY	CANTILEVER TRUSS <sup>2</sup>		174	96			116										7.40	14.80	1985	1985
		NORTH I-55 EAST I-70 ARROW RT @ 45° CHICAGO	ON ABOVE TRUSS		150	102			106													
LOCATION NO. 6 - SOUTH	HBOUND IL 3 @ MISSOURI	AVENUE (8S060S003L006.9)		1				1	1													
		GRANITE CITY NEXT LEFT	WIDE FLANGE STEEL		138	48			46		2.0	W6 x 15	2.5	14.3	14.8	435.00	0.70	1.40			78	156
		SOUTH	WOOD SIGN SUPPORT	M3-3	24	12	3.1	ļ		15.0												
		IL 3	ON TREE WITH ABOVE	M1-I100	24	24	4.0	1														
LOCATION 7 - SOUTHBOU	UND IL 3 @ IL 158 (8506750																	-				
		IL 3 SOUTH WATERLOO DOUBLE ARROW DN	SPAN TRUSS <sup>2</sup>		198	90			124										8.85	17.70	760.0	3040
		IL 158 EAST ARROW RT @ 45° BELLEVILLE	ON ABOVE TRUSS		156	72			78													
LOCATION 9 - WESTBOU	ND I-270 @ EXIT 7A (85060	DI270L007.2)																				
		IL 111 WOOD RIVER/ PONTOON BEACH 1 MILE/ EXITS 6B-A	SPAN TRUSS <sup>2</sup>		216	162			243													
		I-255 SOUTH MEMPHIS ARROW RT@45'/ EXIT 7A	ON ABOVE TRUSS		144	156			156													
		TOTAL					25.7	67.8	1599	88.6						5770.00		17.88		57.00		10359

ALL SIGN PANELS REMOVED ARE TO BE RETURNED TO IDOT OPERATIONS. PLEASE CONTACT JEFF ABEL @ 618-346-3283 FOR ASSISTANCE.

1. THESE PANELS REQUIRE ZZ SHEETING

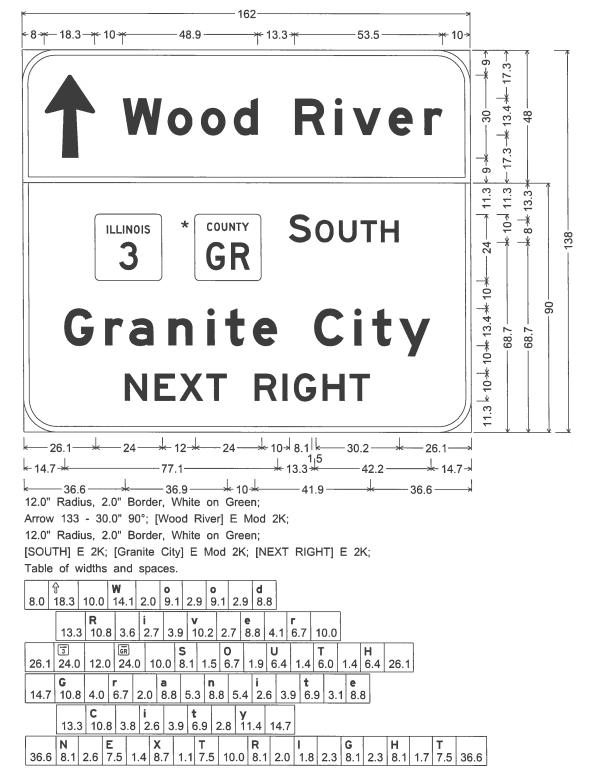
2. SEE BASE SHEETS FOR TRUSS QUANTITIES.

FILE NAME =	USER NAME = murrayda	DESIGNED -	REVISED			F.A. SECTION	COUNTY TOT	TAL SHEET
pw:\\ILØ84EBIDINTEG.:Ill:nois.gov:PWIDOT\0	cuments\IDOT Offices\District 8\Projects\D84	S398X0MQData\EADsheets\D846388-sht-plan.	gREVISED	STATE OF ILLINOIS	GUIDE SIGN SCHEDULE	VAR •	VARIOUS 53	53 14
	PLOT SCALE = 100.0000 ' / in.	CHECKED	REVISED	DEPARTMENT OF TRANSPORTATION		. D-B OVD SIN STR REPL 16-30		0. 46388
Default	PLOT DATE = 11/1/2016	DATE	REVISED -		SCALE: SHEET 1 OF 1 SHEETS STA TO STA.	ILLINOIS FED.	1	77 .0000

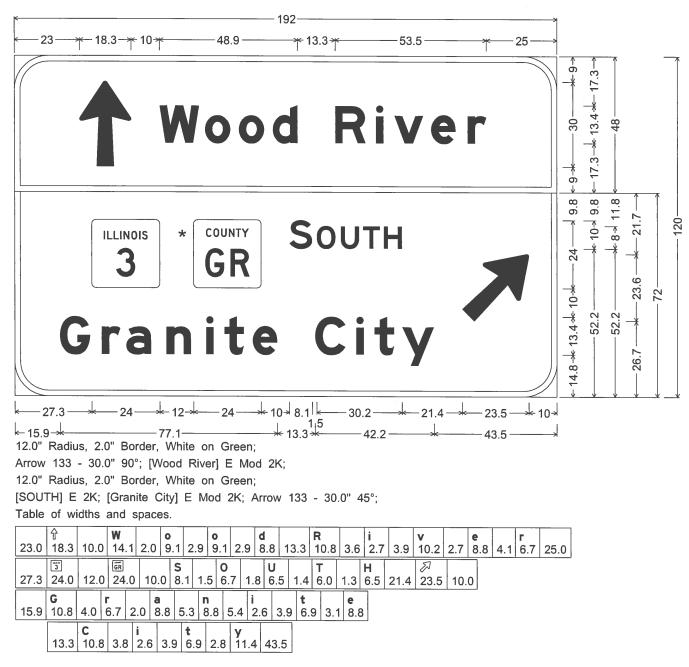
### LOCATION NO. 1

# 8S060S003L015.9 (EXISTING STRUCTURE NO.) SIGN SHOULDER MOUNT

### SM 01 - SIGN PANEL 1 OF 2



### SM 01 - SIGN PANEL 2 OF 2

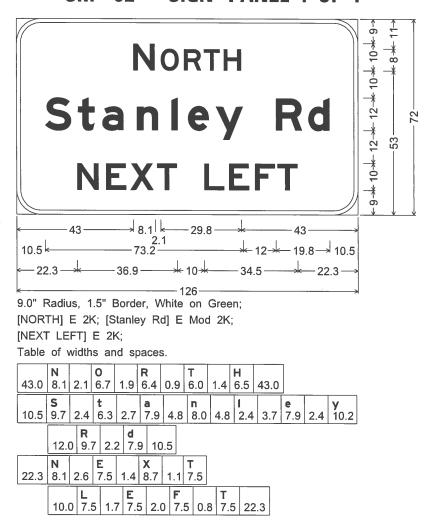


\* REPLACE THE "COUNTY GR" SIGNS WITH THE "GREAT RIVER" SIGN.

FILE NAME =	=	USER NAME = murrayda	DESIGNED	REVISED -			F.A.	SECTION	COUNTY	TOTAL SH	EET
pw:\\ILØ84E8	EBIDINTEG.:llinois.gov:PWIDOT\Doc	uments\IDOT Offices\District 8\Projects\D84	3DRXXXXIData\EADsheets\0846388-sht-plan.c	gREVISED	STATE OF ILLINOIS	SIGN PANEL DETAILS - LOCATION NO. 1	RIE.			SHEETS	10.
		PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		VAR	IN STR REPL 16-30	VARIOUS	53	15
Default		PLOT DATE = 10/31/2016	DATE	REVISED		SCALE: SHEET 1 OF 9 SHEETS STA. TO STA.	- D-B OAD 21	ILLINOIS FED. AI		NU. 463	88

# LOCATION NO. 2 8S060S111L019.9 (EXISTING STRUCTURE NO.) SIGN SHOULDER MOUNT

SM 02 - SIGN PANEL 1 OF 1



FILE NAME =	USER NAME = murrayda	DESIGNED -	REVISED -	
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	PLOT SCALE = 99.9884 '/ in.	CHECKED -	REVISED -	DEPA
Default	PLOT DATE = 10/31/2016	DATE -	REVISED -	

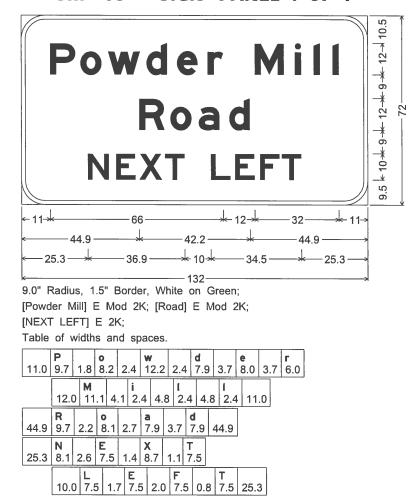
STATI	E OI	F ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

IONI				F.A RTE.		SECTION		COUNTY	TOTAL	SHEET NO.			
IGN	GN PANEL DETAILS— LOCATION NO.		LOCATION NO. 2		VAR		•		VARIOUS	53	16		
							⇒ D-8	OVD SI	N STR RE	PL 16-30	CONTRACT	NO. 4	16388
EET :	2	OF	9	SHEETS	STA	TO STA			ILLI	NOIS FED. A	ID PROJECT		

### **LOCATION NO. 3** 8S060S111R020.3 (EXISTING STRUCTURE NO.)

### SIGN SHOULDER MOUNT

### SM 03 - SIGN PANEL 1 OF 1



FILE NAME =	USER NAME = murrayda	DESIGNED	REVISED	-
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	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED	-
Default	PLOT DATE = 10/31/2016	DATE	REVISED	-

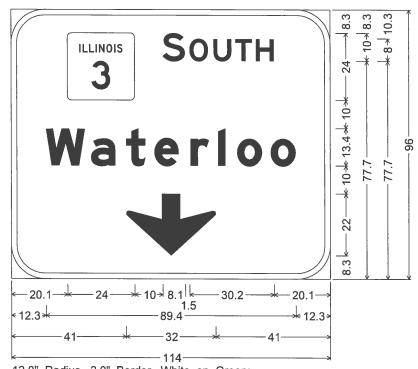
STAT	E OF	ILLINOIS	
DEPARTMENT	0F	TRANSPORTATION	

	ION	-			). 								F.A RTE.		SE	CTION		COUNTY	TOTAL	SHEET NO.
2	IGN	۲	WIA	tL I	DEI	AILS –	LU	ICAII	UN	NO. 3	\$		VAR			•		VARIOUS	53	17
-							_						 ■ D-8	OVD	SIN ST	R REPL	16-30	CONTRACT	NO. 4	16388
_   St	HEET	3		OF	9	SHEETS	S	5TA			TO S	TA				ILLINDI	S FED. A	ID PROJECT		

### **LOCATION NO. 4** 8S067S158L004.4 (EXISTING STRUCTURE NO.)

### SIGN TRUSS MOUNT

### TM 04 - SIGN PANEL 1 OF 2



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

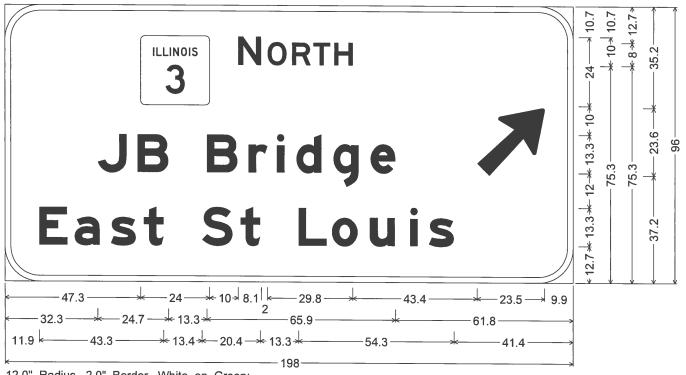
[SOUTH] E 2K; [Waterloo] E Mod 2K;

Down Arrow 22.0" 270°;

Table of widths and spaces.

20.1	3 24.0	10.0	<b>S</b> 8.1	1.5	<b>0</b> 6.7	1.9	<b>U</b> 6.4	1.4	<b>T</b> 6.0	1.4	<b>H</b> 6.4	20.	.1			
12.3	<b>W</b> 14.1	2.0	<b>a</b> 8.8	3.9	<b>t</b> 6.9	3.1	<b>e</b> 8.8	4.1	<b>r</b> 6.7	3.2	1 2.6	4.2	<b>o</b> 9.0	3.0	<b>o</b> 9.0	12.3
41.0	∜ 32.0	41.	0													

### TM 04 - SIGN PANEL 2 OF 2



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

[NORTH] E 2K; [JB Bridge] E Mod 2K; [East St Louis] E Mod 2K; Arrow 133 - 30.0" 45°; Table of widths and spaces.

47.3	3 24.0	10.	0 <b>N</b> 8.	1 2	2.0	) 6.8	1.8	<b>R</b> 6.5	0.9	<b>T</b>	.0	1.3	<b>H</b> 6.5	4	13.4	<i>IJ</i> 23.5	9.9	9							
32.3	<b>J</b> 10.1	3.8	<b>B</b> 10.8	8 1	3.3	<b>B</b> 10.8	3 3.	7 6	.7	3.2	i 2.7	7 4.	<b>d</b>	.8	4.1	<b>g</b> 8.8	4.2	<b>e</b> 8.8	61.	.8					
11.9	<b>E</b> 9.9	2.4	<b>a</b> 8.8	3.8	<b>s</b> 8.8	2.7	<b>t</b> 6.	9	13.4	<b>S</b>	8.0	2.6	<b>t</b> 7.0	1	13.3	<b>L</b> 9.9	1.7	<b>o</b> 9.1	4.1	<b>u</b> 8.8	5.3	i 2.7	3.9	<b>s</b> 8.8	41.4

FILE NAME =	USER NAME = murrayda	DESIGNED -	REVISED	-	Г
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	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED	-	
Default	PLOT DATE = 10/31/2016	DATE	REVISED	-	

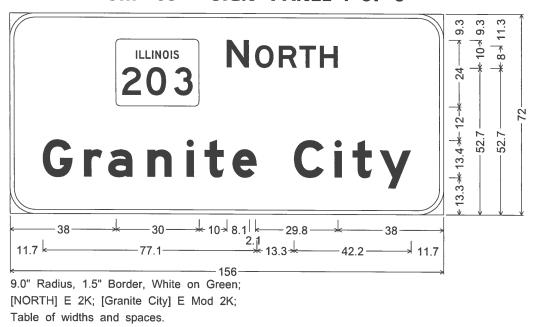
STATI	E OF	FILLINOIS
DEPARTMENT	0F	TRANSPORTATION

	SIGN	PANEL DETAILS - LOCATION NO. 4  4 OF 9 SHEETS STA TO STA			F.A RTE.		SI	ECTION	N		COUNTY	TOTAL	SHEET NO.				
	SIGN	PA	MEL	DEI	AILS -	LUCATI	UN NU.	4	VAR			•			VARIOUS	53	18
_	CHEET	_		_					 • D-8	OVD	SIN S	TR RE	PL 1	6-30	CONTRACT	NO.	46388
_	SHEET	4	OF	9	SHEETS	5TA		TO STA				ILLI	INOIS	FED. AI	D PROJECT		

# LOCATION NO. 5 8S082S203R001.3 (EXISTING STRUCTURE NO.)

### SIGN SHOULDER MOUNT

### SM 05 - SIGN PANEL 1 OF 3



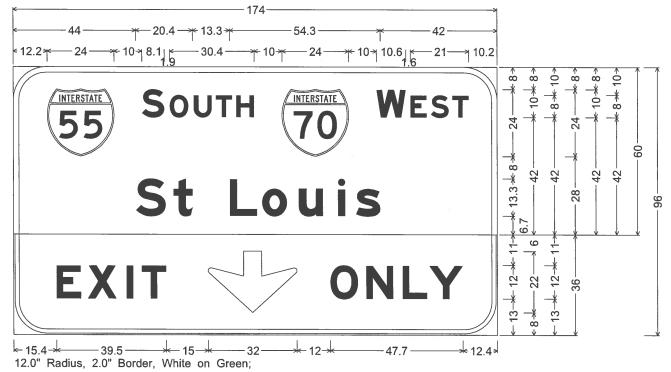
38.0	30.0	10.0	N 8.1	2.1	<b>O</b> 6.7	1.9	<b>R</b> 6.4	0.9	T 6.0	1.4	<b>H</b> 6.5	38.	0
11.7	<b>G</b> 10.8	4.0	<b>r</b> 6.7	2.0	<b>a</b> 8.8	5.3	<b>n</b> 8.8	5.4	i 2.6	3.9	<b>t</b> 6.9	3.1	<b>e</b> 8.8
	13.3	<b>C</b> 10.8	3.8	i 2.6	3.9	<b>t</b> 6.9	2.8	<b>y</b> 11	.4 1	1.7			

FILE NAME =	USER NAME = murrayda	DESIGNED -	REVISED -			F.A. SECTION	COUNTY	TOTAL SHEET
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	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		VAR .	VARIOUS	53 19
Default	PLOT DATE = 10/31/2016	DATE	REVISED -		SCALE: SHEET 5 OF 9 SHEETS STA TO STA.	D-8 OVD SIN STR REPL 16-30		NO. 46388

# LOCATION NO. 5 8S082S203R001.3 (EXISTING STRUCTURE NO.)

### SIGN CANTILEVER MOUNT

### CM 05 - SIGN PANEL 2 OF 3



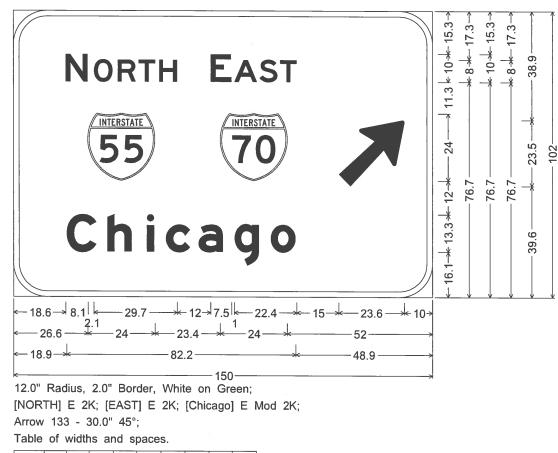
[SOUTH] E Mod 2K; [WEST] E Mod 2K; [St Louis] E Mod 2K;

12.0" Radius, 1.5" Border, 0.5" Indent, Black on Yellow; [EXIT] E Mod 2K 140% spacing; Down Arrow 22.0" 270°; [ONLY] E Mod 2K;

Table of letter and object lefts.

	S	0	U	Т	Н	79	W	E		S	Т
12.2	46.2	56.2	64.8	72.8	80.1	96.6	130	.6 14	12.8	150.2	157.9
S	t		0	u	i	s					
44.0	57.5	77.7	89.3	102.5	116	.7 12	3.2				
Ε	X	Ī	Т	₽	0	N	L		Υ		
15.4	26.6	40.6	46.0	69.9	113.9	9   126	6.8 1	139.9	149	.5	

### CM 05 - SIGN PANEL 3 OF 3



	12.0	7.5	1.0	8.2	0.9	6.4	0.9	6.0	15.0	23	.6 1	0.0		
	53		770											
26.6	24.0	23.4	4 24	1.0 5	52.0									
	С		h		i		С		a		q		0	
18.9	10.8	3.8	8.8	5.3	2.7	4.1	8.8	2.9	8.8	4.2	8.8	4.1	9.1	48.9

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	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED	-
Default	PLOT DATE = 10/31/2016	DATE	REVISED	-

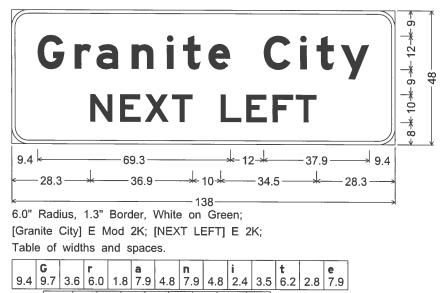
STATI	E 01	FILLINOIS
DEPARTMENT	0F	TRANSPORTATION

IGN PANEL DETAILS – LOCATION NO. 5		SECTION	COUNTY	TOTAL	SHEE NO.
SIGN PANEL DETAILS - LOCATION NO. 5	VAR	•	VARIOUS	53	20
	• D-8	OVD SIN STR REPL 16-30	CONTRACT	NO.	46388
SHEET 6 OF 9 SHEETS STA TO STA		ILLINOIS FED.	AID PROJECT		

### LOCATION NO. 6 8S060S003L006.9 (EXISTING STRUCTURE NO.)

### SIGN SHOULDER MOUNT

### SM 06 - SIGN PANEL 1 OF 1



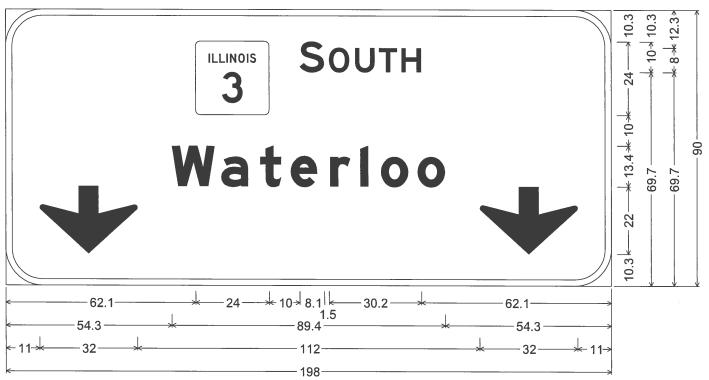
9.4	<b>G</b> 9.7	3.6	<b>r</b> 6.0	1	.8	<b>a</b> 7.9	4.	8	<b>n</b> 7.	9	4.	8	i 2.4	3.5	<b>t</b> 6.2	2.8	<b>e</b> 7.9
	12.	0 9	.7 3	3.4	i 2.4	4 3	.5	<b>t</b>	.2	2.	.5	<b>y</b> 10	0.2	9.4			
28.3	<b>N</b> 8.1	2.6	E 7.	5	1.4	<b>X</b> 8.7	, ,	1.1	<b>T</b> 7	.5							
	10.	0 L	.5 1	1.7	E 7.5	5 2	.0	<b>F</b> 7.	5	0.	8	T 7.	5 2	8.3			

FILE NAME =	USER NAME = murrayda	DESIGNED -	REVISED -			F.A. SECTION COUNTY TOTAL SHEET
pw:\\ILØ84EBIDINTEG.:llinois.gov:PWIDOT\Do	cuments\IDOT Offices\District 8\Projects\D84	SBRXXXXXData\EADsheets\ <u>D846388-</u> sht-plan.	gREVISED -	STATE OF ILLINOIS	SIGN PANEL DETAILS – LOCATION NO. 6	NIE. SHEETS NO.
	PLOT SCALE = 100.0000 ' / in.	CHECKED	REVISED	DEPARTMENT OF TRANSPORTATION		• D-8 OVD SIN STR REPL 16-30   CONTRACT NO. 46388
Default	PLOT DATE = 10/31/2016	DATE	REVISED		SCALE: SHEET 7 OF 9 SHEETS STA TO STA.	D-8 OVD SIN STR REPL 16-30   CONTRACT NO. 46388

# LOCATION NO. 7 8S060S003L018.6 (EXISTING STRUCTURE NO.)

### SIGN TRUSS MOUNT



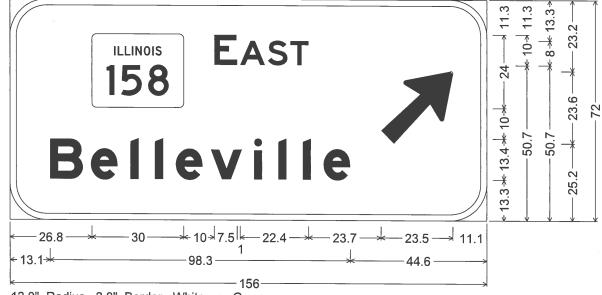


12.0" Radius, 2.0" Border, White on Green;

[SOUTH] E 2K; [Waterloo] E Mod 2K; Down Arrow 22.0" 270°; Down Arrow 22.0" 270°; Table of widths and spaces.

62.1	3 24.0	10.0	<b>S</b> 8.1	1.5	<b>O</b> 6.7	1.9	<b>U</b> 6.4	1.4	<b>T</b>	1.4	<b>H</b> 6.4	62.	1			
54.3	<b>W</b> 14.1	2.0	<b>a</b> 8.8	3.9	<b>t</b> 6.9	3.1	<b>e</b> 8.8	4.1	<b>r</b> 6.7	3.2	1 2.6	4.2	<b>o</b> 9.0	3.0	<b>o</b> 9.0	54.3
11.0	√ 32.0	112	.0 3	ラ 2.0	11.0											

### TM 07 - SIGN PANEL 2 OF 2



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

[EAST] E 2K; [Belleville] E Mod 2K; Arrow 133 - 30.0" 45°;

Table of widths and spaces.

SCALE:

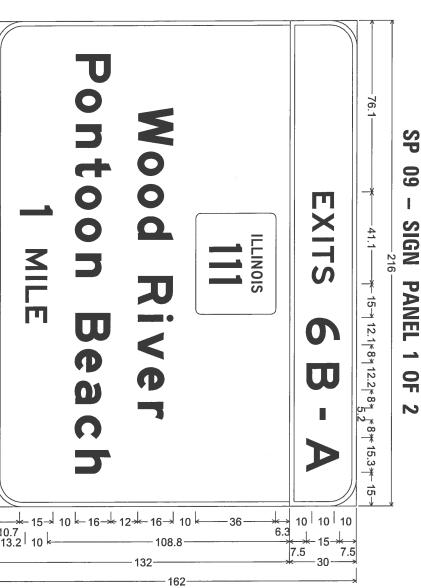
26.	8 30.0	10.	<b>E</b> 7.	5 1.0	<b>A</b> 8.1	0.9	<b>S</b> 6.5	0.9	<b>T</b> 6.0	23	.7 23	.5 1	1.1							
13.	<b>B</b> 10.8	2.5	<b>e</b> 8.8	4.2	I 2.6	5.4	I 2.6	4.2	<b>e</b> 8.8	2.6	<b>v</b> 10.3	3.9	i 2.6	5.4	1 2.6	5.4	I 2.6	4.2	<b>e</b> 8.8	44.6

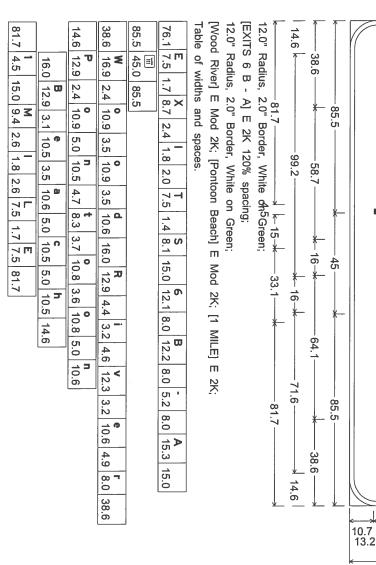
FILE NAME =	USER NAME = murrayda	DESIGNED -	REVISED	-	
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	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED	-	
Default	PLOT DATE = 10/31/2016	DATE	REVISED	-	

STAT	E 0	F ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

	SIGN PANEL DETAILS - LOCATION NO. 7						F.A. RTE.		S	SECTIO	N		COUNTY	TOTAL	SHEET NO.		
							VAR						VARIOUS	53	22		
_		_		_			 		• D-8	OVD	SIN	STR R	EPL	16-30	CONTRACT	NO.	46388
_	SHEET	8	OF	- 5	SHEETS	STA.	 TO STA.					ILL	[NOIS	FED. A	ID PROJECT		

# LOCATION NO.9 8S0601270L007.2 (EXISTING STRUCTURE NO.) SIGN PANEL REPLACEMENT





ox:\\ILØ84EBIDINTEG.ıllınaıs.gav:PWIDOT\Da

DESIGNED 
DESIGN

REVISED REVISED REVISED

EXISTING SIGN PANELS ARE REPLACED WITH PROPOSED SIGN PANELS WITH ZZ SHEETING

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET 9

SHEETS

TO STA.

SIGN PANEL DETAILS -

**LOCATION** 

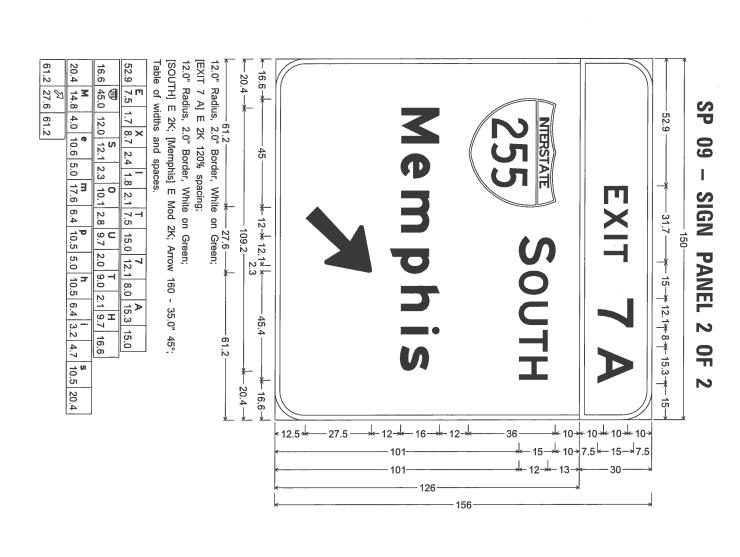
NO. 9

RTE. SECTION COUNTY TOTAL
RTE. VAR VAR VARIOUS 53

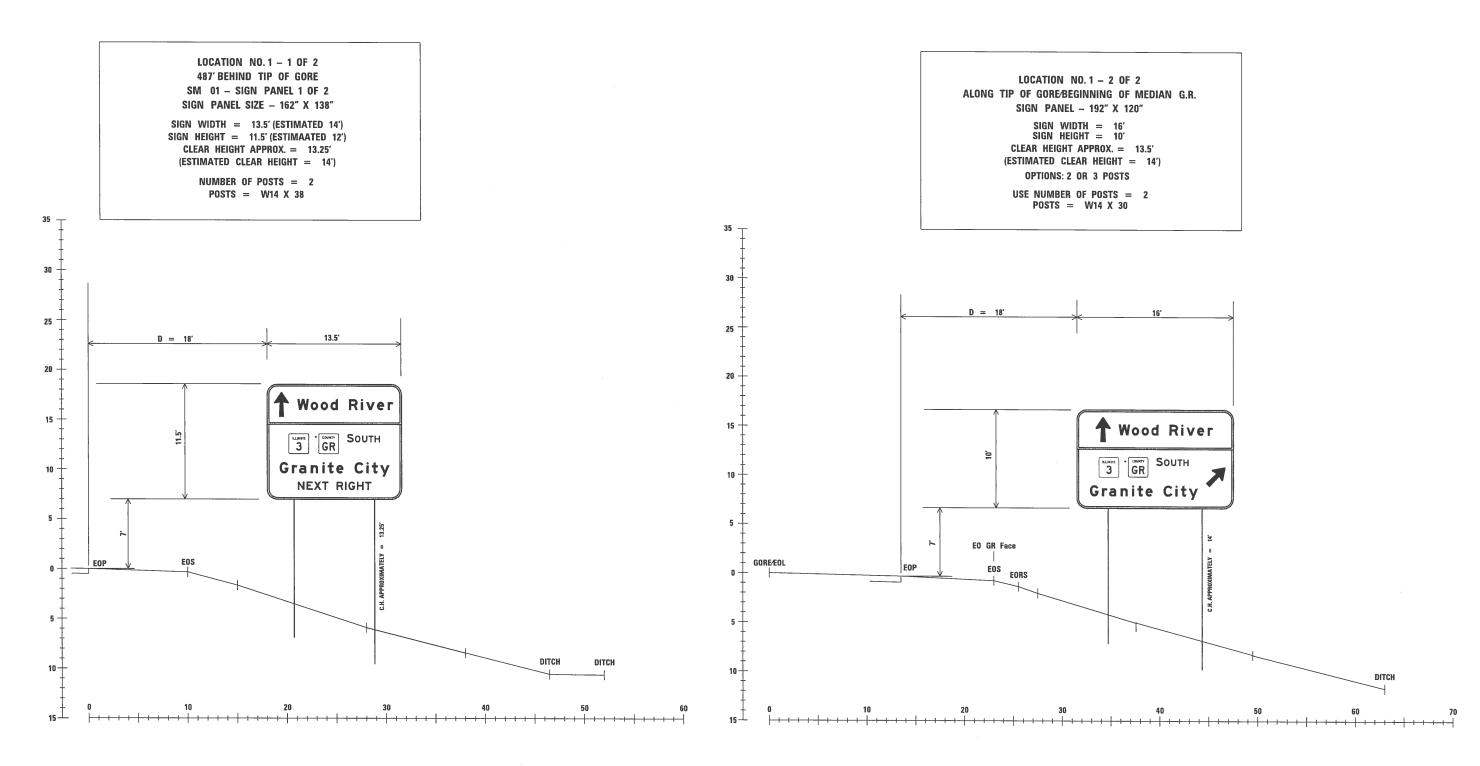
D-B OVD SIN STR REPL 16-30 CONTRACT NO. 46

| D-B OVD SIN STR REPL 16-30 PROJECT | 11LINOIS| FED. AID PROJECT

S NO. 23



### LOCATION NO. 1: IL3 AT GREAT RIVER RD.

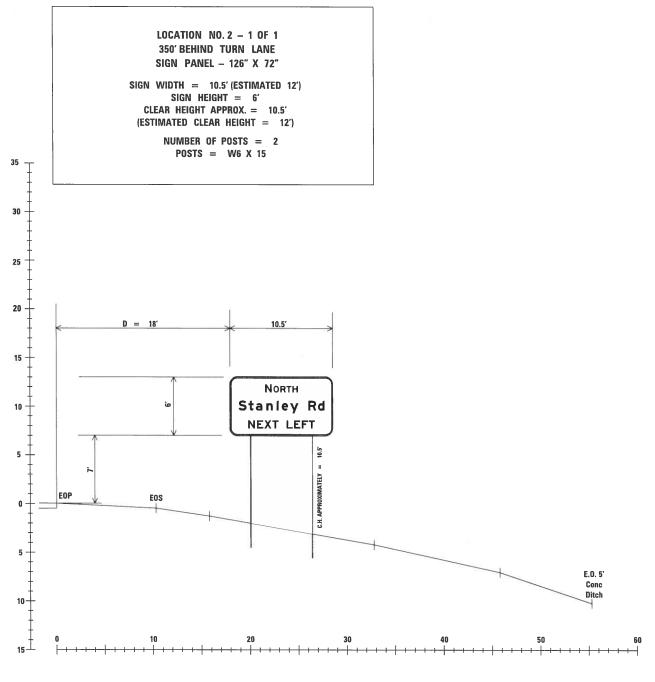


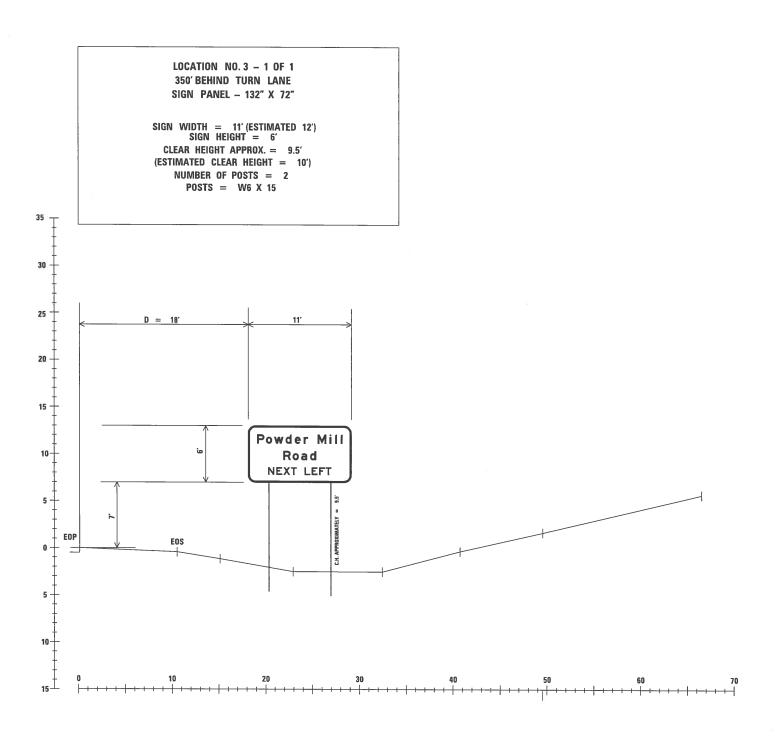
\* REPLACE THE "COUNTY GR" SIGNS WITH THE "GREAT RIVER" SIGN. NOTE: ESTIMATED DIMENSIONS ARE FOR DESIGN PURPOSES ONLY.

FILE NAME =	USER NAME = murrayda	DESIGNED -	REVISED			F.A. SECTION COUNTY TOTAL S
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	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	SHOOLDEN MOORT BETALES - LOUATION NO. 1	VAR • VARIOUS 53
Default	PLOT DATE = 10/31/2016	DATE	REVISED -	DEFAITMENT OF THANSFORTATION	SCALE: SHEET 1 OF 3 SHEETS STA TO STA	D-B OVD SIN STR REPL 16-30   CONTRACT NO. 46:
		***	·		10 01%	LELINOIS FED. AID PROJECT

### **LOCATION NO. 2: IL111 AT STANLEY RD.**

### LOCATION NO. 3: IL 111 AT POWDERMILL RD.





NOTE: ESTIMATED DIMENSIONS ARE FOR DESIGN PURPOSES ONLY.

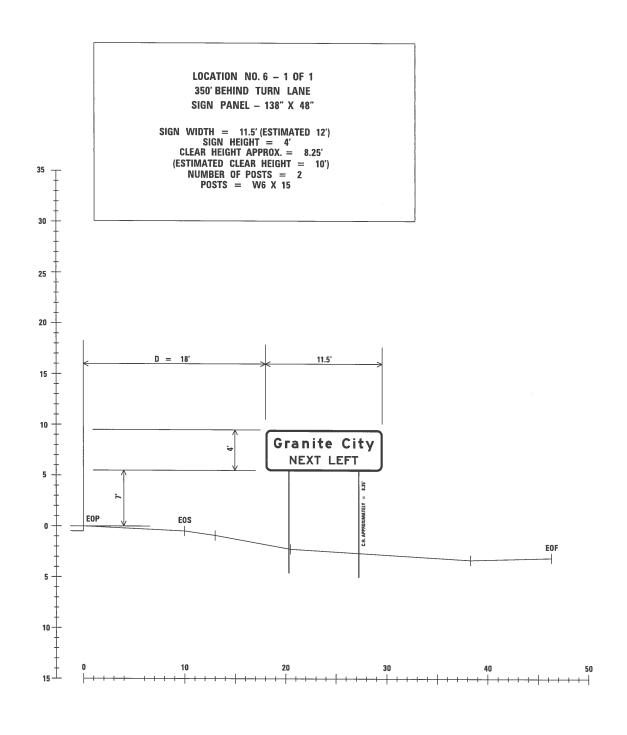
FILE NAME =	USER NAME = murrayda	DESIGNED -	REVISED			F.A. SECTION	COUNTY TOTAL SHEET
pw:\\ILØ84EBIDINTEG.:Ill:nots.gov:PWIDOT\Do	cuments\IDOT Offices\District 8\Projects\D84	3BRXXXXIData\EADsheets\D846388-sht-plan.c	REVISED -	STATE OF ILLINOIS	SHOULDER MOUNT DETAILS— LOCATION NOS. 2 & 3	NIE.	SHEETS NO.
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	5110-1-1 110011 PET/11011 110012 Q		VARIOUS 53 25
Default	PLOT DATE = 10/31/2016	DATE	REVISED -		SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.	* D-8 UVD SIN SIR REPL 16-30 (	CONTRACT NO. 46388
							I NOULC I

### LOCATION NO. 5: IL203 NB TO 155/70

## LOCATION NO. 5 - 1 OF 3 45' BEHIND S. BRIDGE JOINT SIGN PANEL - 156" X 72" SIGN WIDTH = 13' (ESTIMATED 14') SIGN HEIGHT = 6' CLEAR HEIGHT APPROX. = 12.25' (ESTIMATED CLEAR HEIGHT = 14') NUMBER OF POSTS = 2 POSTS = W8 X 18 D = 18' 15 203 North Granite City EO GR Face EOS EOP

NOTE: ESTIMATED DIMENSIONS ARE FOR DESIGN PURPOSES ONLY.

### LOCATION NO. 6: IL3 SB AT PONTOON RD.



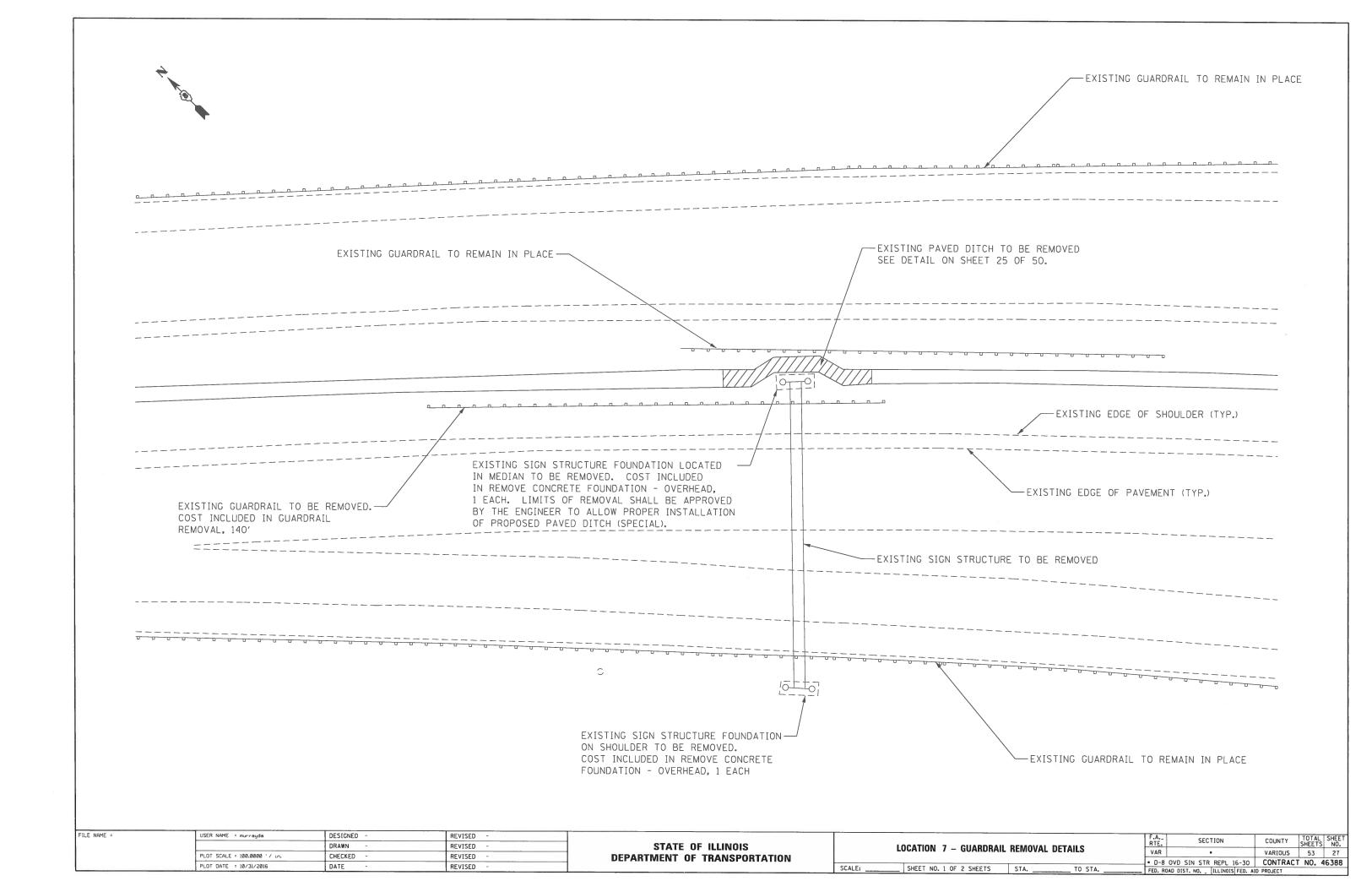
COUNTY TOTAL SHEET NO.

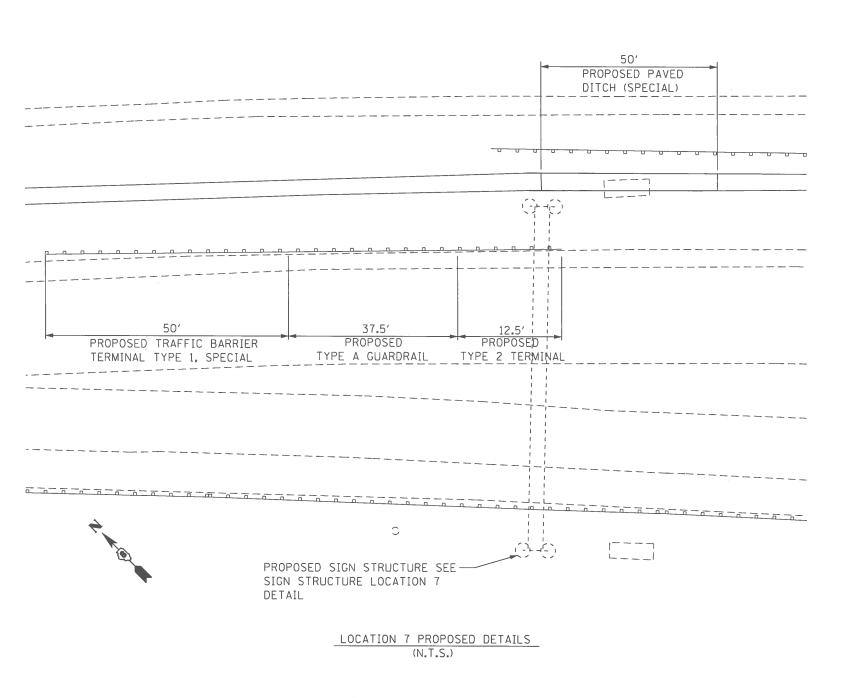
VARIOUS 53 26

F.A. RTE. VAR SECTION

• D-8 OVD SIN STR REPL 16-30 CONTRACT NO. 46388

	FILE NAME =	USER NAME = murrayda	DESIGNED -	REVISED -			
8	pw:\\IL084EBIDINTEG.:ll:nois.gov:PWIDOT\Do	cuments\IOOT Offices\Oistrict 8\Projects\D84	6388XXXXXData\EADsheets\D846388-sht-plan.c	gREVISED -	STATE OF ILLINOIS	SHOULDER N	MOUNT DETAILS - LOCATION NO. 5 & 6
		PLOT SCALE = 99.9884 ' / in.	CHECKED	REVISED -	DEPARTMENT OF TRANSPORTATION		
	Default	PLOT DATE = 10/31/2016	DATE	REVISED		SCALE: SHEET 3	OF 3 SHEETS STA TO STA





NOTES

ESTIMATED QUANTITY OF CONCRETE REMOVAL ON SHOULDER LOCATION PAID FOR AS REMOVE CONCRETE FOUNDATION - OVERHEAD = 2.85 CU YD.

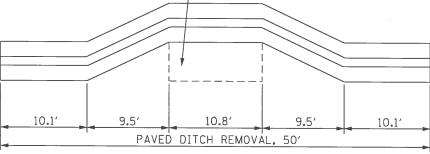
ESTIMATED QUANTITY OF CONCRETE REMOVAL IN MEDIAN LOCATION PAID FOR AS REMOVE CONCRETE FOUNDATION - OVERHEAD = 3.13 CU YD.

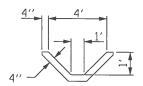
PAVED DITCH (SPECIAL) SHALL BE CONSTRUCTED TO MATCH THE DIMENSIONS SHOWN FOR THE EXISTING PAVED DITCH OR AS DIRECTED BY THE ENGINEER TO MATCH FIELD CONDITIONS TO ENSURE PROPER DRAINAGE.

ESTIMATED QUANTITY OF CONCRETE REMOVAL PAID FOR AS PAVED DITCH REMOVAL = 3.22 CU YD.

ESTIMATED QUANTITY OF CONCRETE PAID FOR AS PAVED DITCH (SPECIAL) = 3.19 CU YD.

EXISTING SIGN STRUCTURE FOUNDATION IN MEDIAN TO BE REMOVED. COST INCLUDED IN REMOVE CONCRETE FOUNDATION - OVERHEAD. LIMITS OF REMOVAL SHALL BE APPROVED BY THE ENGINEER TO ALLOW PROPER INSTALLATION OF PROPOSED PAVED DITCH (SPECIAL).





EXISTING PAVED DITCH REMOVAL DETAIL (N.T.S.)

EXISTING SIGN STRUCTURE FOUNDATION IN MEDIAN
TO BE REMOVED. COST INCLUDED IN REMOVE
CONCRETE FOUNDATION - OVERHEAD. LIMITS OF
REMOVAL SHALL BE APPROVED BY THE ENGINEER
TO ALLOW PROPER INSTALLATION OF PROPOSED
PAVED DITCH (SPECIAL).

PROPOSED GUARDRAIL SEE
LOCATION 7 PROPOSED
DETAIL FOR LENGTH

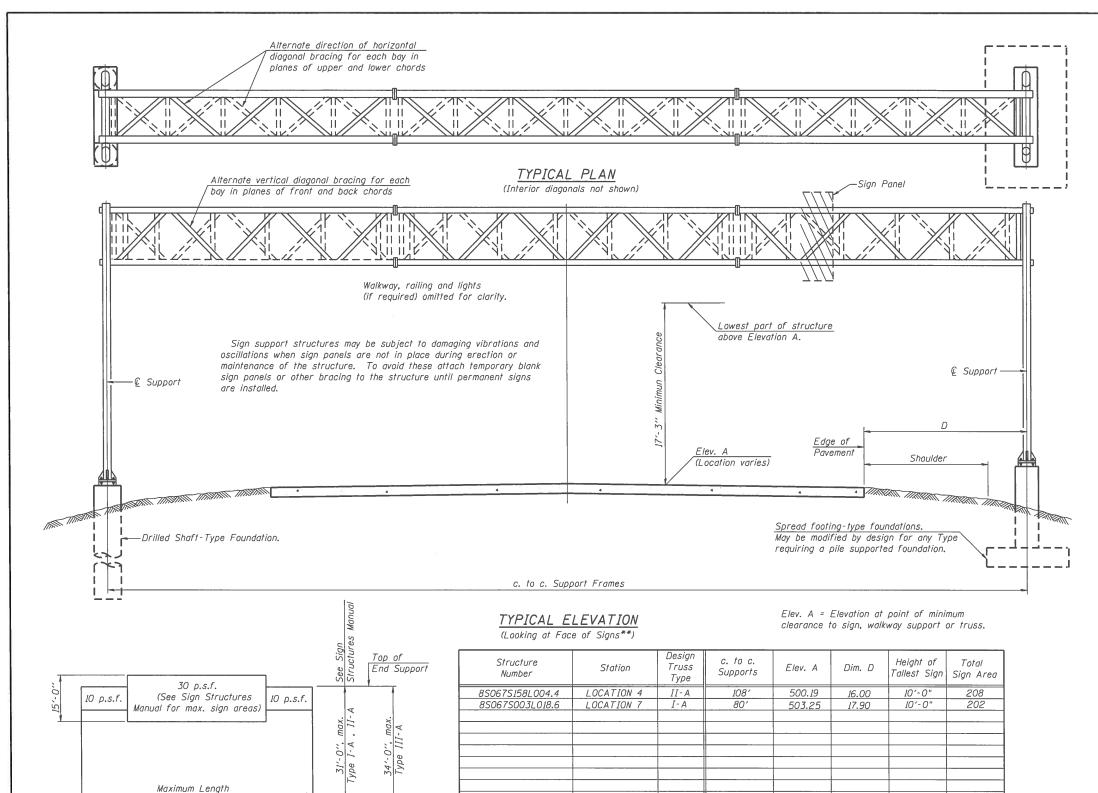
PROPOSED SIGN TRUSS

EXISTING EDGE OF PAVEMENT

EXISTING EDGE OF PAVEMENT

SIGN STRUCTURE LOCATION 7 DETAIL (N.T.S.)

FILE NAME =	USER NAME = murrayda	DESIGNED -	REVISED -						F.A	ECTION	COUNTY	TOTAL SHEET
pw:\\ILØ84EBIDINTEG.:llinois.gov:PWIDDT\Do	uments\IDOT Offices\District 8\Projects\D84	IDR XXXXIData\EADsheets\0846388-sht-plan.	gREVISED -	STATE OF ILLINOIS	LOCATION 7 - GUARDRAIL DETAILS		RAII DETAILS	-	RTE.	SEC ITON		SHEETS NO.
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION			-	VAR	•	VARIOUS	53 28	
	PLOT DATE = 10/31/2016	DATE -	REVISED -		SCALE:	SHEET NO. 2 OF 2 SHEETS	STA, TO ST	ΓΑ.	FD. ROAD DIST NO	STR REPL 16-30		T NO. 46388
									ED1 110-10 D1011 1101	_  ICCINOIS  CD: AI	D THOULET	



### (See Sign Structures Manual) DESIGN WIND LOADING DIAGRAM

c. to c. Support Frames

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.

DESIGNED

CHECKED

CHECKED

DRAWN

REVISED

REVISED

REVISED

REVISED

\*\*Looking upstation for structures with signs both sides.

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

05-A-1

FILE NAME =

8-21-13

JSER NAME

PLOT SCALE

PLOT DATE =

### **DEPARTMENT OF TRANSPORTATION**

STATE OF ILLINOIS

**OVERHEAD SIGN STRUCTURES - GENERAL PLAN & ELEVATION - ALUMINUM TRUSS & STEEL SUPPORTS** 

VARIOUS 53 29 D-8 OVD SIN STR REPL 16-30 CONTRACT 46388 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.

fy = 60,000 p.s.i. (reinforcement)

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

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W\*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer.

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

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO MI64 (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 Evebolt lock nut.

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

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

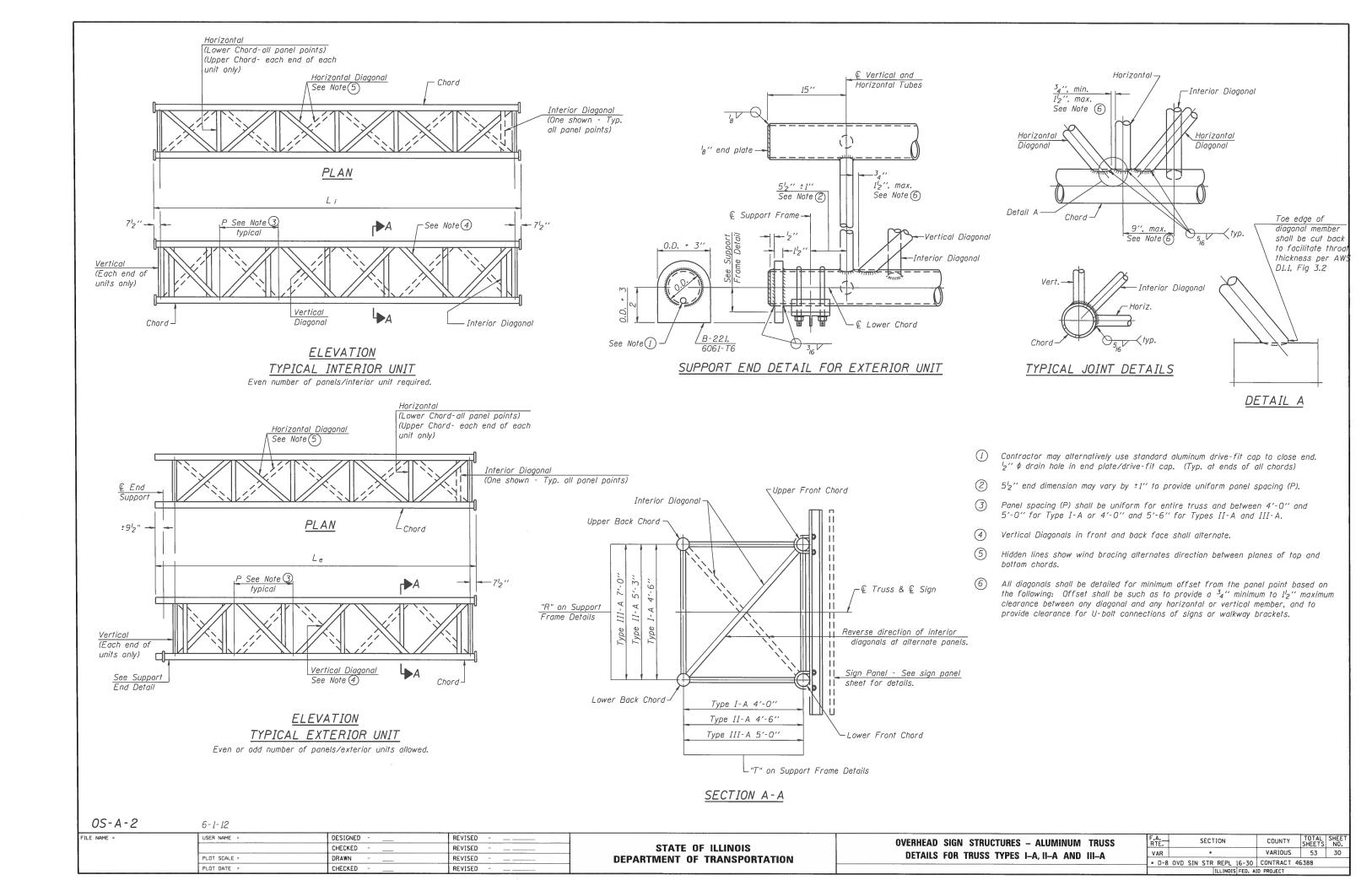
CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Concrete Sealer in accordance with the Standard Specifications.

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

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

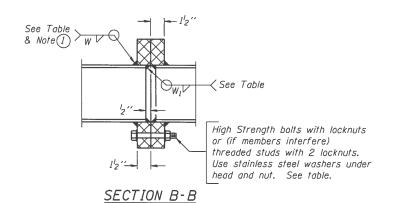
### TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE SPAN TYPE I-A	Foot	80
OVERHEAD SIGN STRUCTURE SPAN TYPE II-A	Foot	108
OVERHEAD SIGN STRUCTURE SPAN TYPE III-A	Foot	
OVERHEAD SIGN STRUCTURE WALKWAY TYPE A	Foot	98
CONCRETE FOUNDATIONS	Cu. Yds.	
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	42.2
ROCK EXCAVATION FOR STRUCTURES	Cu. Yds.	13.42

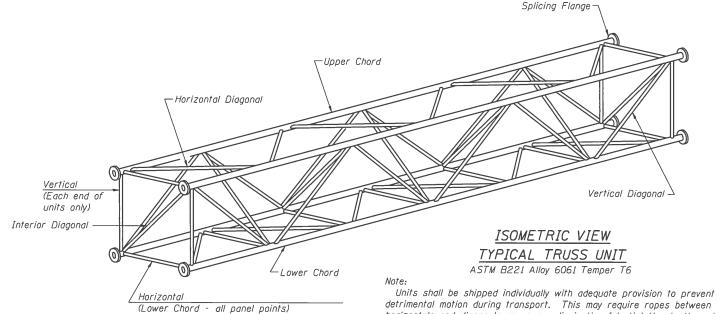


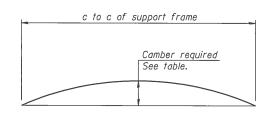
### TRUSS UNIT TABLE

Structure	6	Design Truss	Exte	rior Units	(2)		Interio	r Unit		Upper 8		Verticals; Hori	zontals; Vertical, Interior Diagonals	Camber			Splicing	Flange			
Number	Station	Туре	No. Panels per Unit	Unit Lgth.(L <sub>e</sub> )	Panel Lath.(P)	No. Rea'd	No. Panels per Unit	Unit Lgth.(L <sub>i</sub> )	Panel		Wall	0.D.	Wall	Midspan	Bolt No./Splice		Weld W	Sizes W <sub>I</sub>	А	В	
8S067S158L004.4	LOCATION 4	II-A	7	38'-534"			6	32'-7'2"			516"	3"	5/6"	3.75	6	1"	3, "	1,"	11"	1412"	
8S067S003L018.6	LOCATION 7	I-A	5	25'-10"			6	30'-0"	4'-912"	5"	5 <sub>16</sub> "	2'2"	5 <sub>16</sub> "	2.25	6	78"	516 "	14"	834"	1134"	
																				<del></del>	
																			-		
		-																		<del></del>	



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



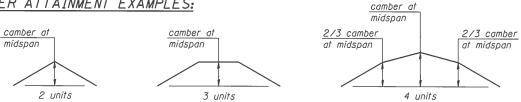


(Lower Chord - all panel points)

(Upper Chord - each end of each unit only)

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

### CAMBER ATTAINMENT EXAMPLES:



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

0S4-A-2

6-1-12

001 11 2	0 1 12		
ILE NAME =	USER NAME =	DESIGNED -	REVISED
		CHECKED	REVISED
	PLOT SCALE =	DRAWN	REVISED
	PLOT DATE =	CHECKED	REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**  OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS DETAILS FOR TRUSS TYPES I-A, II-A AND III-A

horizontals and diagonals or energy dissipating (elastic) ties to the vehicle.

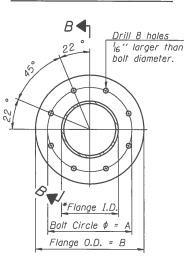
The Contractor is responsible for maintaining the configuration and

protection of the units.

1	F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
ı	VAR	•	VARIOUS	53	31			
4	• D-8	OVD SIN STR REPL 16-30	CONTRACT	46388				
	ILLINOIS FED. AID PROJECT							

Drill 6 holes  $B \blacktriangleleft_1$ bolt diameter. \*Flange I.D.

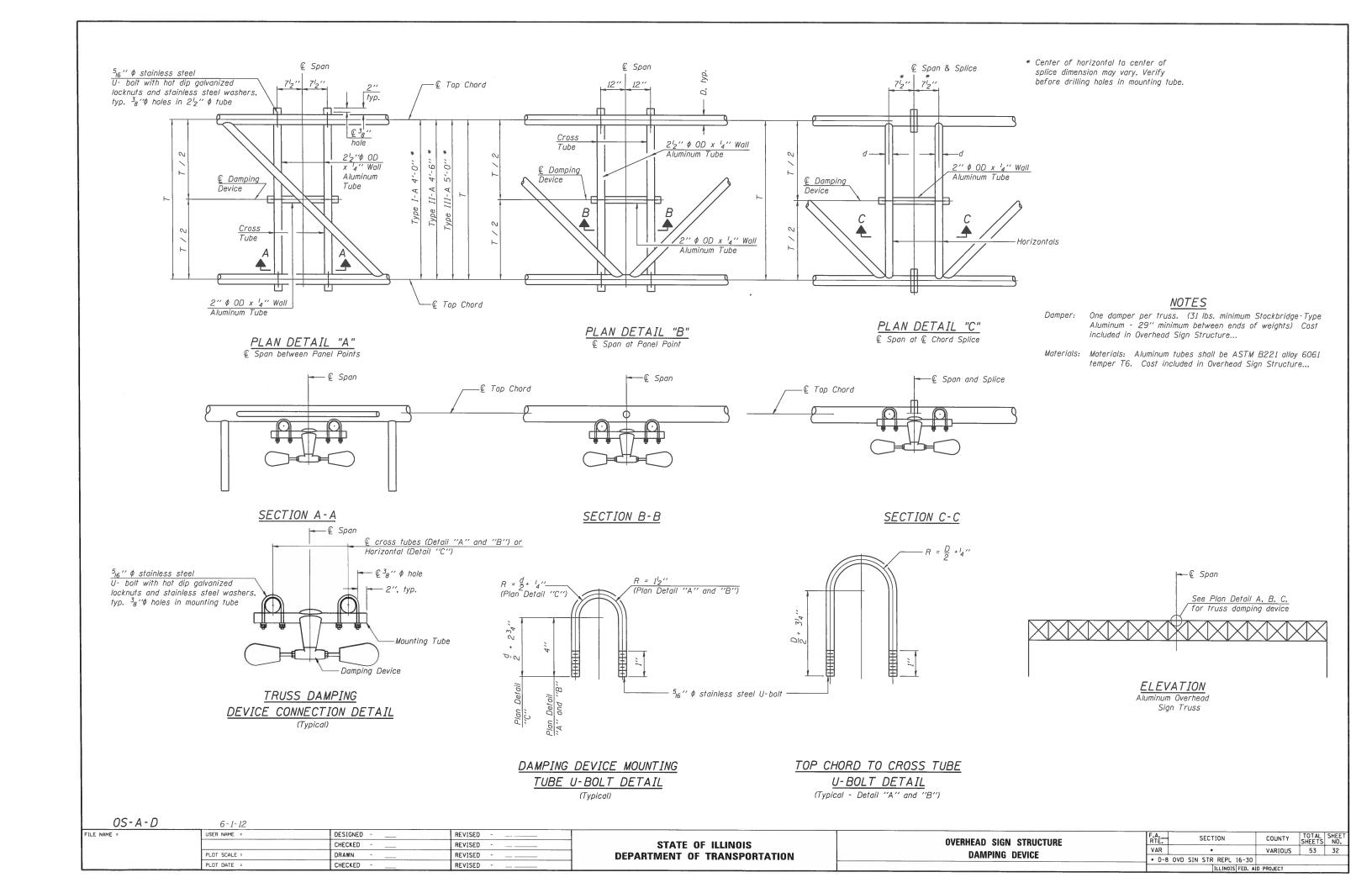
### TRUSS TYPES I-A, II-A, & III-A

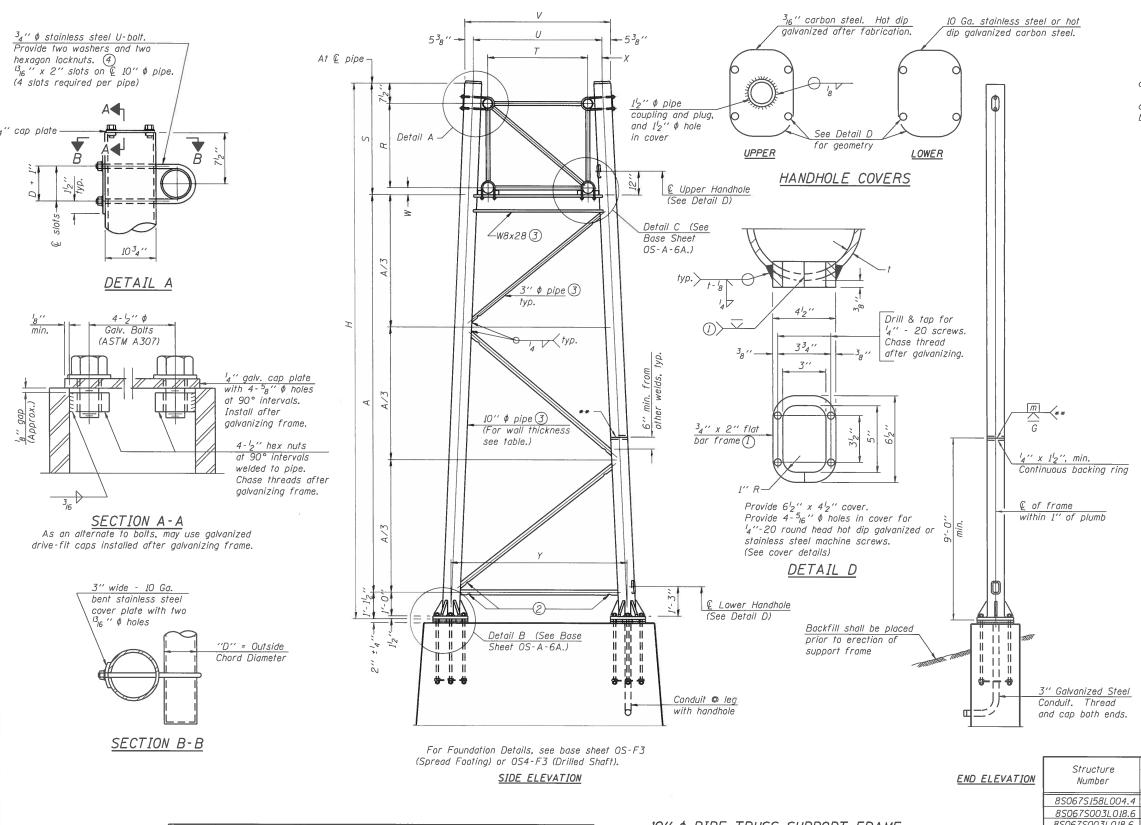


### TRUSS TYPES II-A & III-A

### SPLICING FLANGES

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





Y

8'-3"

8'-3"

9"

92"

434"

Support Design Loads: See Base Sheet OS-A-I 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.
- @ 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.
- 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.

Structure	Station	Sup	port	Truss	Pipe Wall	Н	
Number	31011	Left	Right	Туре	Thickness	6	A
8S067S158L004.4	LOCATION 4	X	X	II-A	0.365	29'-0"	21'-71/4"
8S067S003L018.6	LOCATION 7	X		I-A	0.279	26'-0"	19'-5"
8S067S003L018.6	LOCATION 7	-	X	I-A	0.279	28'-0"	21'-5"
							1

### 10" \$ PIPE TRUSS SUPPORT FRAME

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

0S-A-6

FILE NAME =

Truss

Туре

II- A (5)

4'-6"

5'-3"

5'-5'2"

6'-34"

I-A

6	- 1- 12		
	USER NAME =	DESIGNED	REVISED
		CHECKED	REVISED
	PLOT SCALE =	DRAWN	REVISED
	PLOT DATE =	CHECKED -	REVISED

4'-0"

4'-6"

Dimensions

V

6'-434

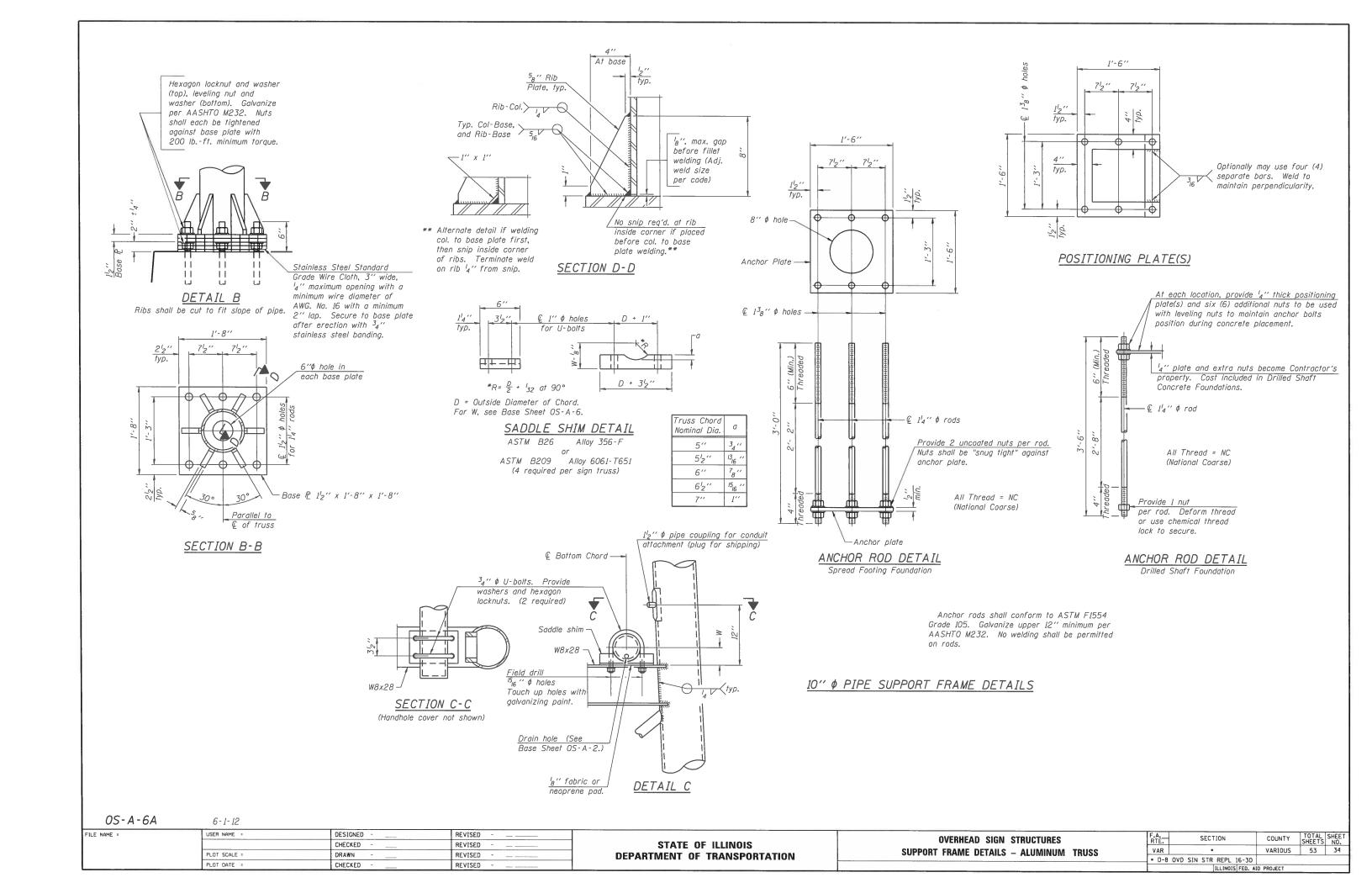
6'-1134'

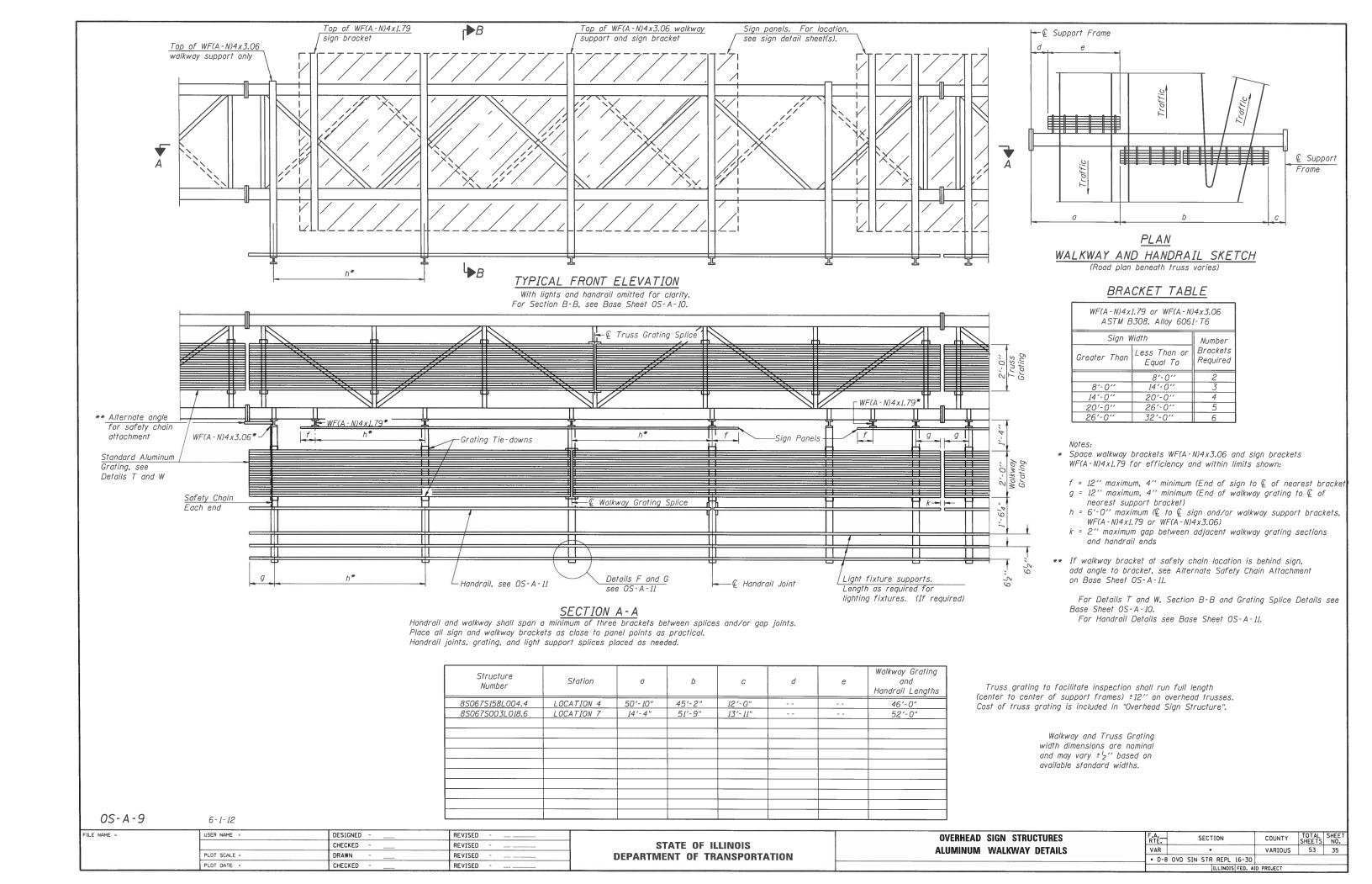
5′-6′′

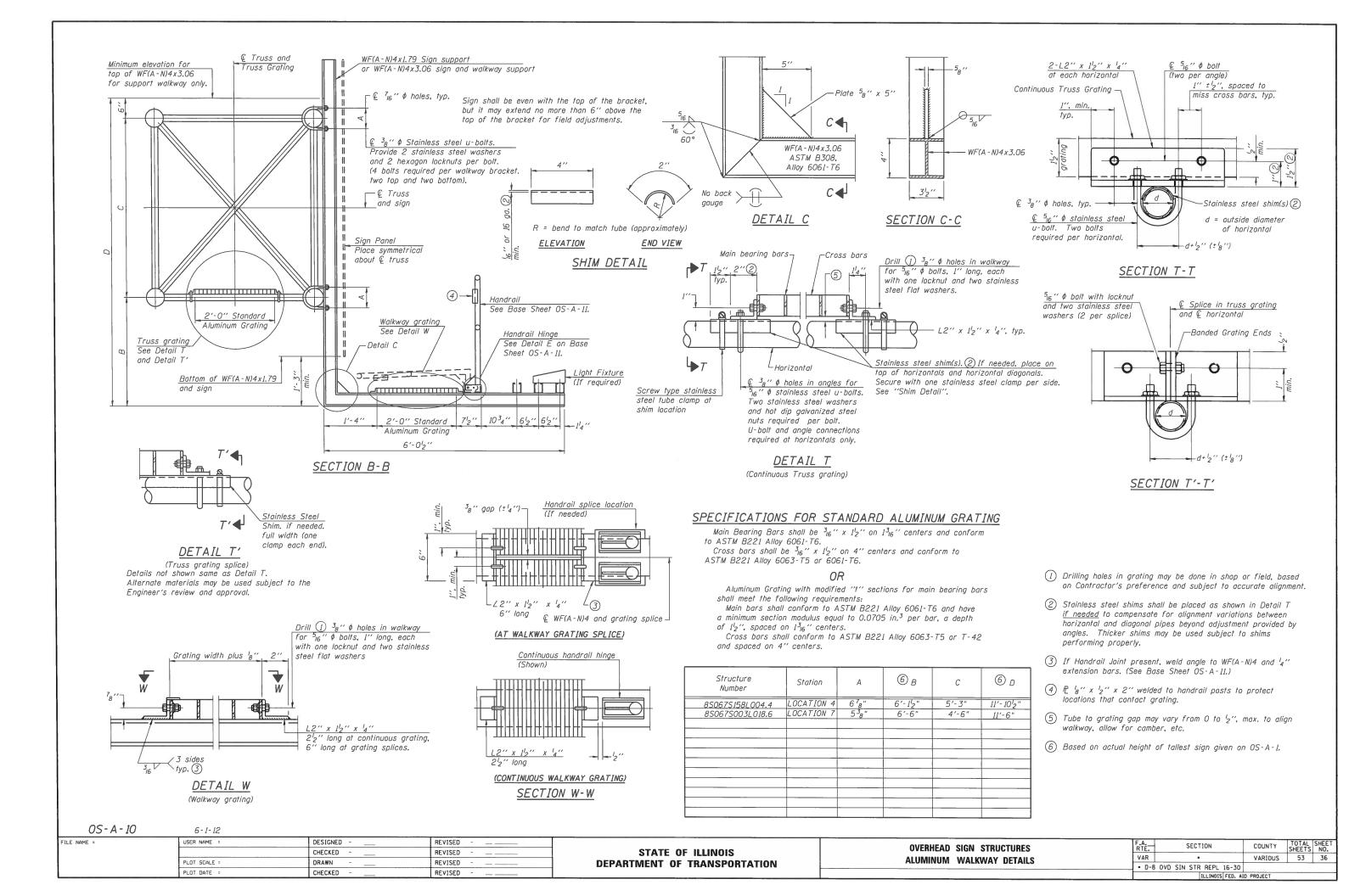
6'-1"

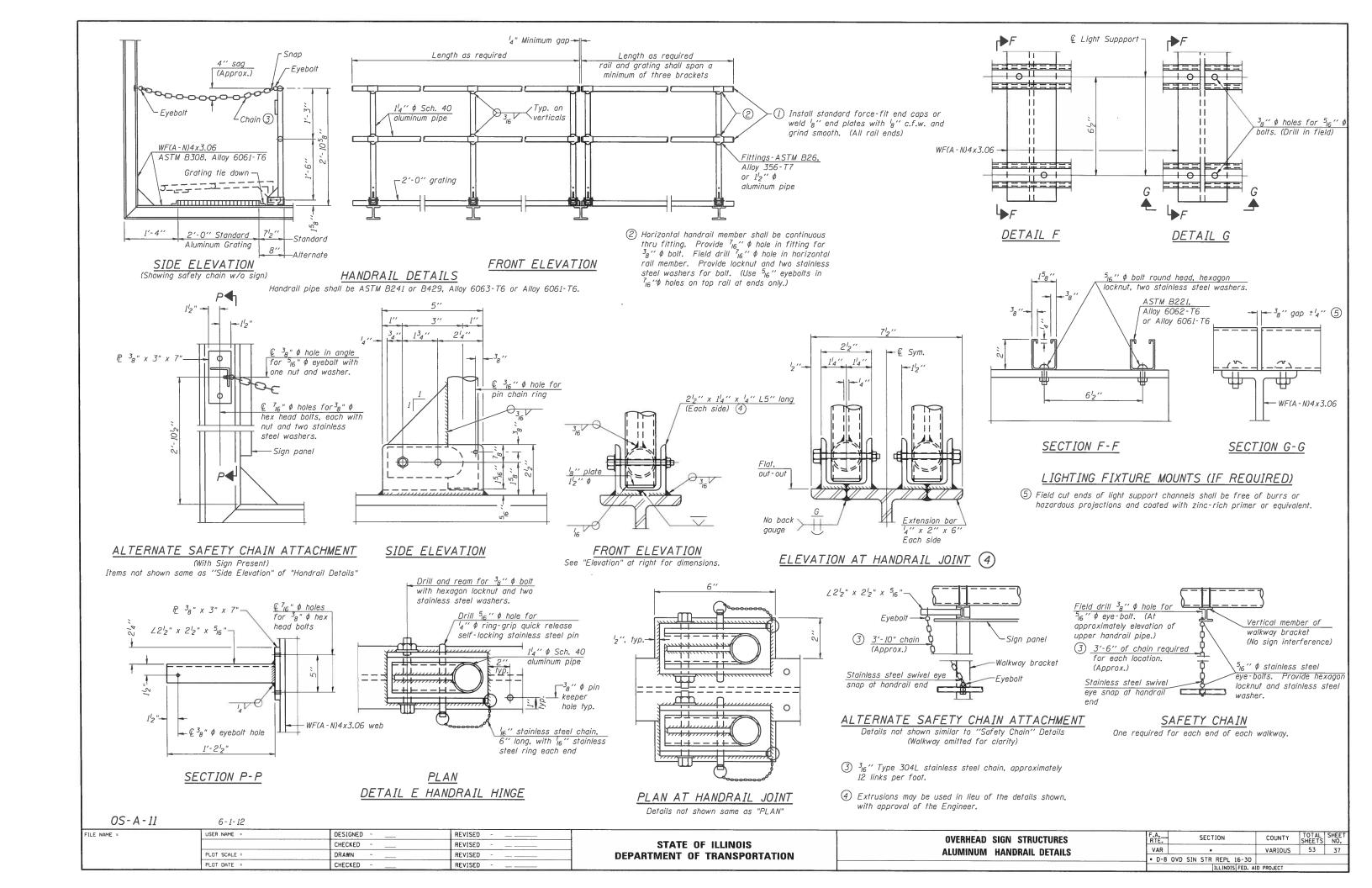
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
SUPPORT FRAME FOR ALUMINUM TRUSS



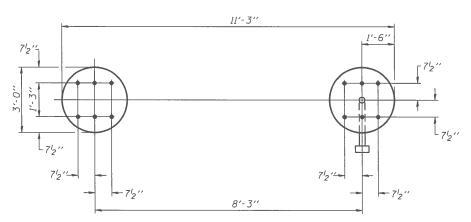






# 8'-3" & to & 3'-0" ¢ Elevation (Top) Approved clamps for grounding\* 3'' ¢ Galvanized Steel Conduit. Thread result of site specific designs. and cap both ends. #6 copper wire or cable

Elevation



PLAN

 $3_4$ "  $\phi$  x 10'-0" copper weld ground rod driven into ground 9'-0". Cost of rod, cable, conduit, caps and clamps shall be included in Drilled

Shaft Concrete Foundations.

SIDE ELEVATION

3'-0" ¢

REVISED

12-#9 v4(E) bars-

3 hoops minimum top and bottom

3'-0" ¢

PLOT DATE =

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

END VIEW

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

#### BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
v4(E)	24	#9	F less 5"	
#4 bar spiral (L		E) - see :	Side Elevatio	าก

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

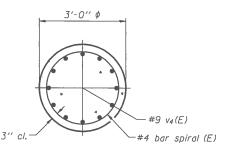
If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District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

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

Concrete shall be placed monolithically, without construction joints.

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

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



SECTION A-A

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

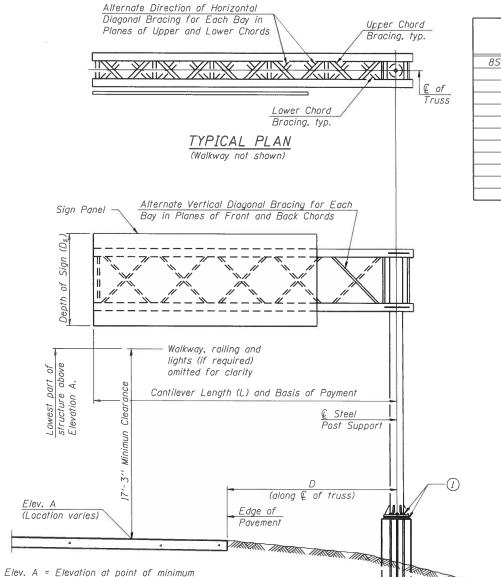
Structure	<u> </u>			Left Fo	oundation			Right Fo	oundation			Class DS
Number	Station	Elevation Top	Elevation Bottom	А	В	F	Elevation Top	Elevation Bottom	А	В	F	Concrete (Cu. Yds.)
8S067S158L004.4	LOCATION 4	498.67	474.92	3.25	20.50	23.75	498.67	475.66	2.51	20.50	23.01	24.5
8\$067\$003L018.6	LOCATION 7	504.35	487.50	2.35	14.50	16.85	502.35	485.29	2.56	14.50	17.06	17.7
						-						
		<u> </u>										
			<u></u>									

0S4-F3 8-21-13 USER NAME = FILE NAME = DESIGNED REVISED CHECKED REVISED PLOT SCALE = REVISED DRAWN

CHECKED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**  **OVERHEAD SIGN STRUCTURES** DRILLED SHAFT DETAILS

SECTION COUNTY TOTAL SHEET NO. VARIOUS 53 38 . D-8 OVD SIN STR REPL 16-30

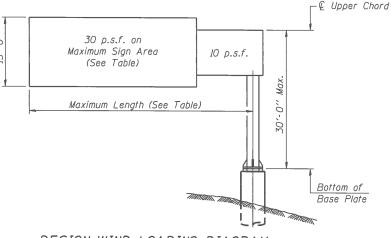


# TYPICAL ELEVATION Looking in Direction of Traffic

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

Structure Number	Station	Design Truss Type	Cantilever Length (L)	Elev. A	Dim. D	Ds	Total Sign Area
8S082S203R001.3	LOCATION 5	III-C-A	39'-0"	503.41	15'-0"	13'-0"	222
	1						
	<u> </u>						

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



#### DESIGN WIND LOADING DIAGRAM

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

Note

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

- After adjustments to level truss and insure adequate vertical clearance, all top and leveling nuts shall be tightened against the base plate with a minimum torque of 200 lb.-ft. Stainless steel mesh shall then be placed around the perimeter of the base plate. Secure to base plate with stainless steel banding.
- \* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.

#### GENERAL NOTES

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

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

LOADING: 90 M.P.H. WIND VELOCITY

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

DESIGN STRESSES: Field Units f'c = 3,500 p.s.i.

fy = 60,000 p.s.i. (reinforcement)

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

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

All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W\*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer. The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO MI64 (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 MIII. 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

	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE I-C-A	Foot	
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE II-C-A	Foot	
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE III-C-A	Foot	39
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	Foot	32
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	14.8

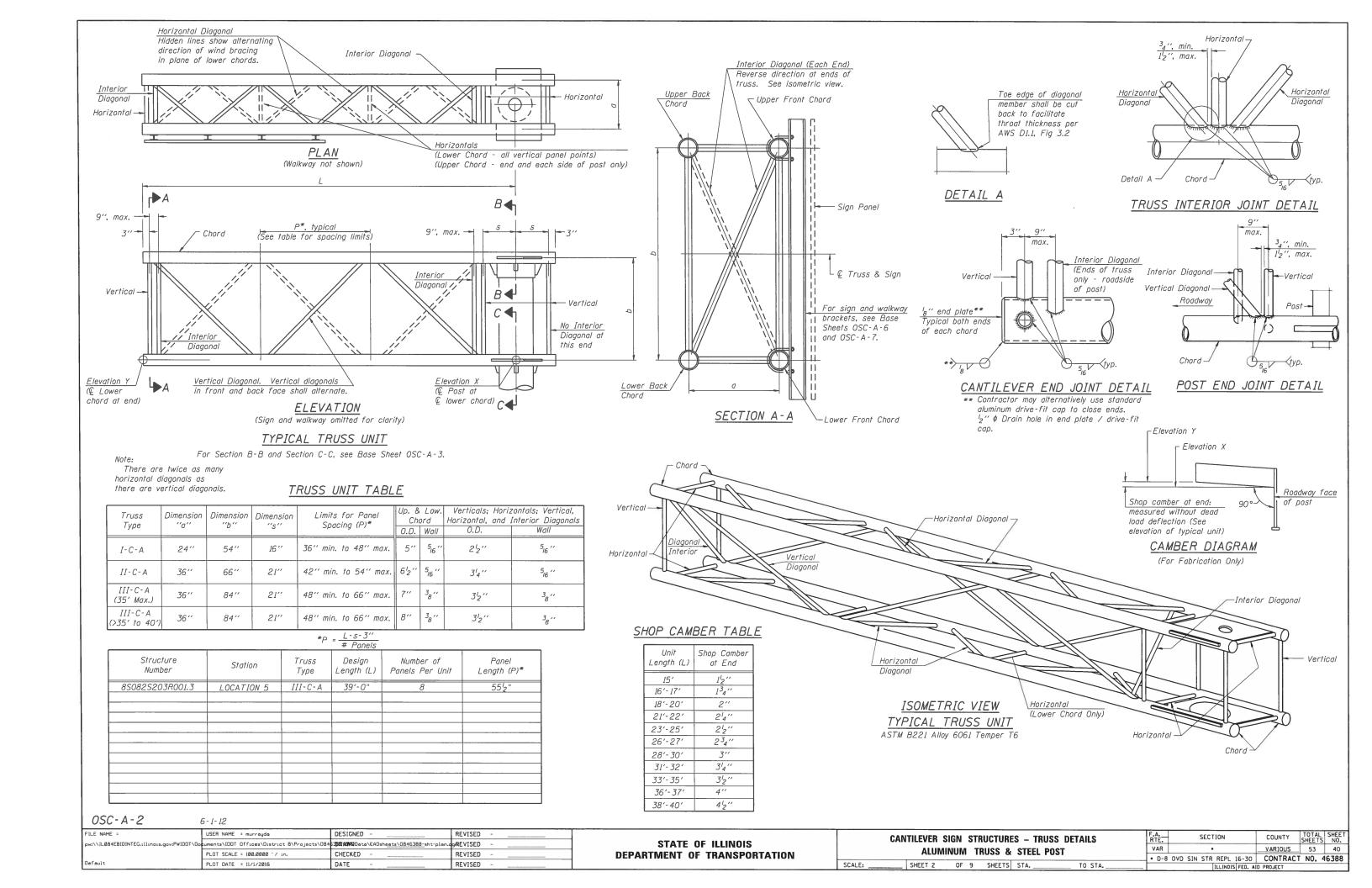
**OSC-A-1** 8-21-13

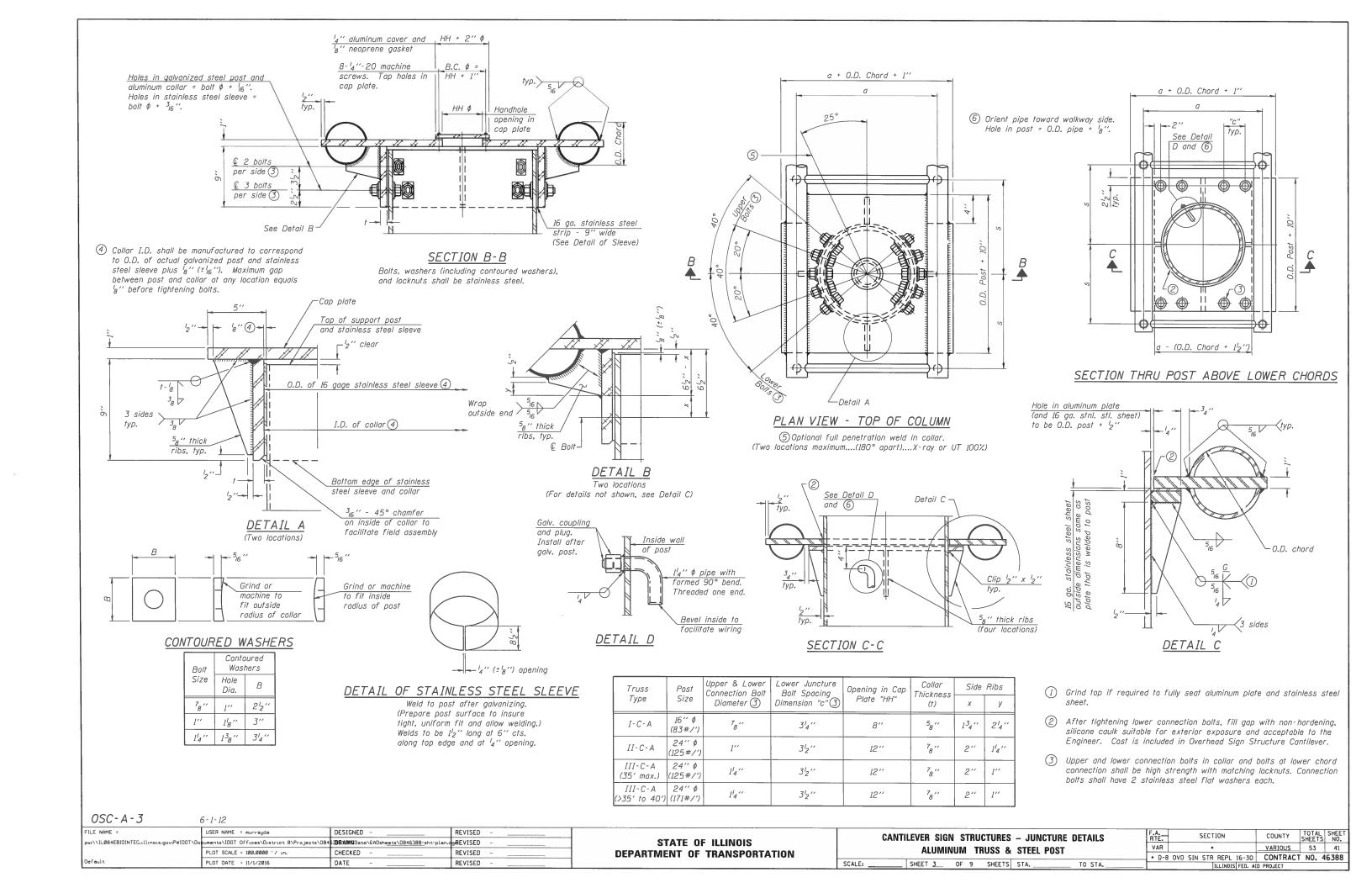
clearance to sign, walkway support or truss.

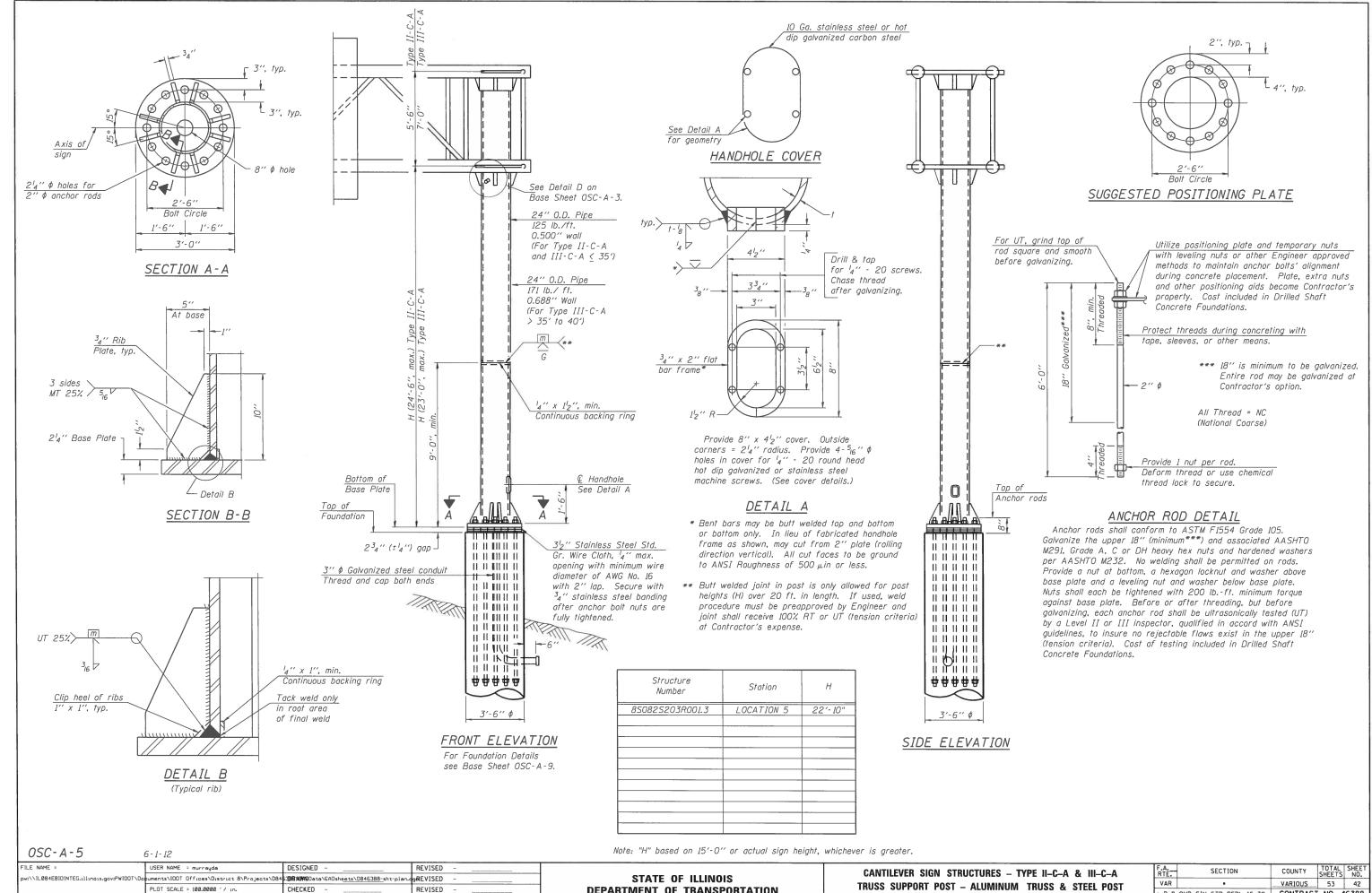
			2000	
FILE NAME =	USER NAME = murrayda	DESIGNED -	REVISED	-
pw:\\IL084EBI0INTEG.:Ill:nots.gov:PWI00T\Do	cuments\IDOT Offices\District 8\Projects\D84	3 <b>BRXXXX</b> Data\EADshe <u>ets\0846388-</u> sht-plan.q	gREVISED	-
	PLOT SCALE = 100.0000 ' / in.	CHECKED	REVISED	-
Default	PLOT DATE = 11/1/2016	DATE	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER		STRUCT MINUM				&	ELEVATION	
SCALE:	SHEET 1	OF	9 S	HEETS	STA.	1	TO STA.	







**DEPARTMENT OF TRANSPORTATION** 

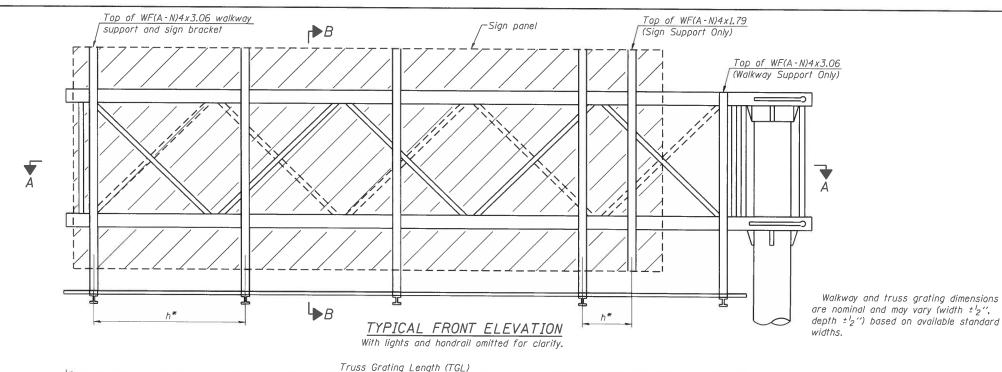
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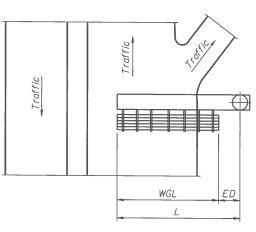
DATE

REVISED

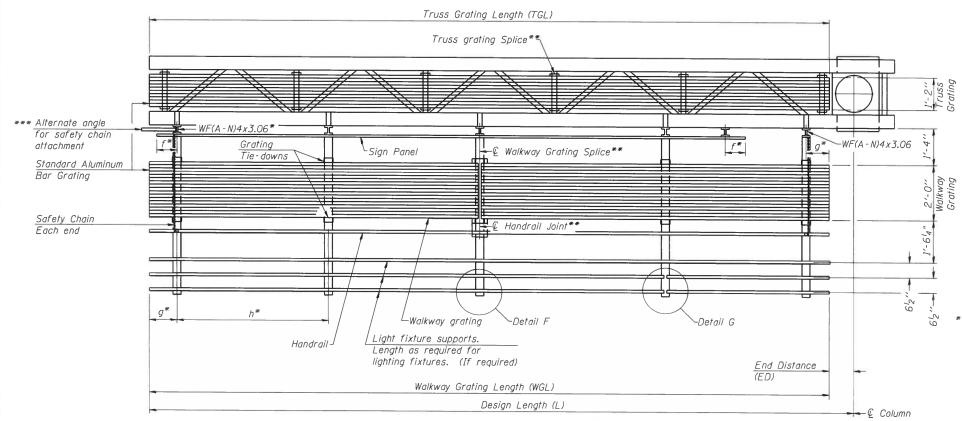
TRUSS SUPPORT POST - ALUMINUM TRUSS & STEEL POST SHEET 4 OF 9 SHEETS STA. TO STA.

D-8 OVD SIN STR REPL 16-30 | CONTRACT NO. 46388





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



Structure Number	Station	WGL	ED	TGL
8S082S203R001.3	LOCATION 5	32'-0"	7′-0"	37′-6"

- Space walkway brackets WF(A-N)4x3.06 and sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:
- f = 12" maximum, 4" minimum (End of sign to Q of nearest bracket) g = 12" maximum, 4" minimum (End of walkway to Q of nearest bracket)
- h = 6'-0'' maximum (C to C sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)
- \*\*\* If walkway bracket at safety chain location is behind sign, add angle to bracket. See alternate safety chain attachment on base sheet OSC-A-8

For details of sign placement, sign/walkway brackets, truss and walkway gratings, grating splices and Section B-B, see Base Sheet OSC-A-7.

For details of handrail, handrail joint, safety chain and Details F and G, see Base Sheet OSC-A-8.

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

#### SECTION A-A

Handrail and walkway grating shall span a minimum of three brackets between splices.

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

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

#### BRACKET TABLE

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

SCALE:

#### 0SC-A-6

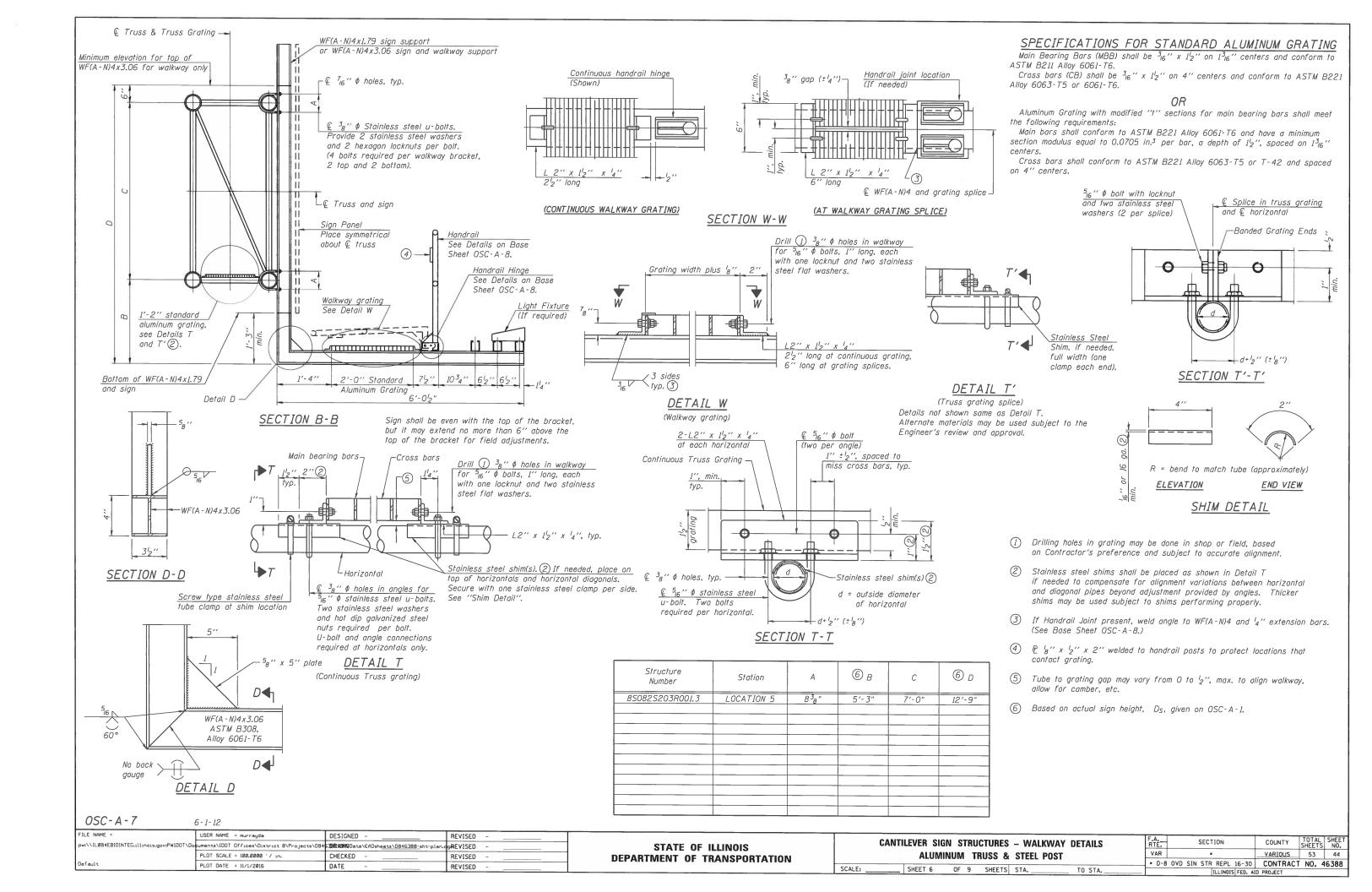
6-1-12

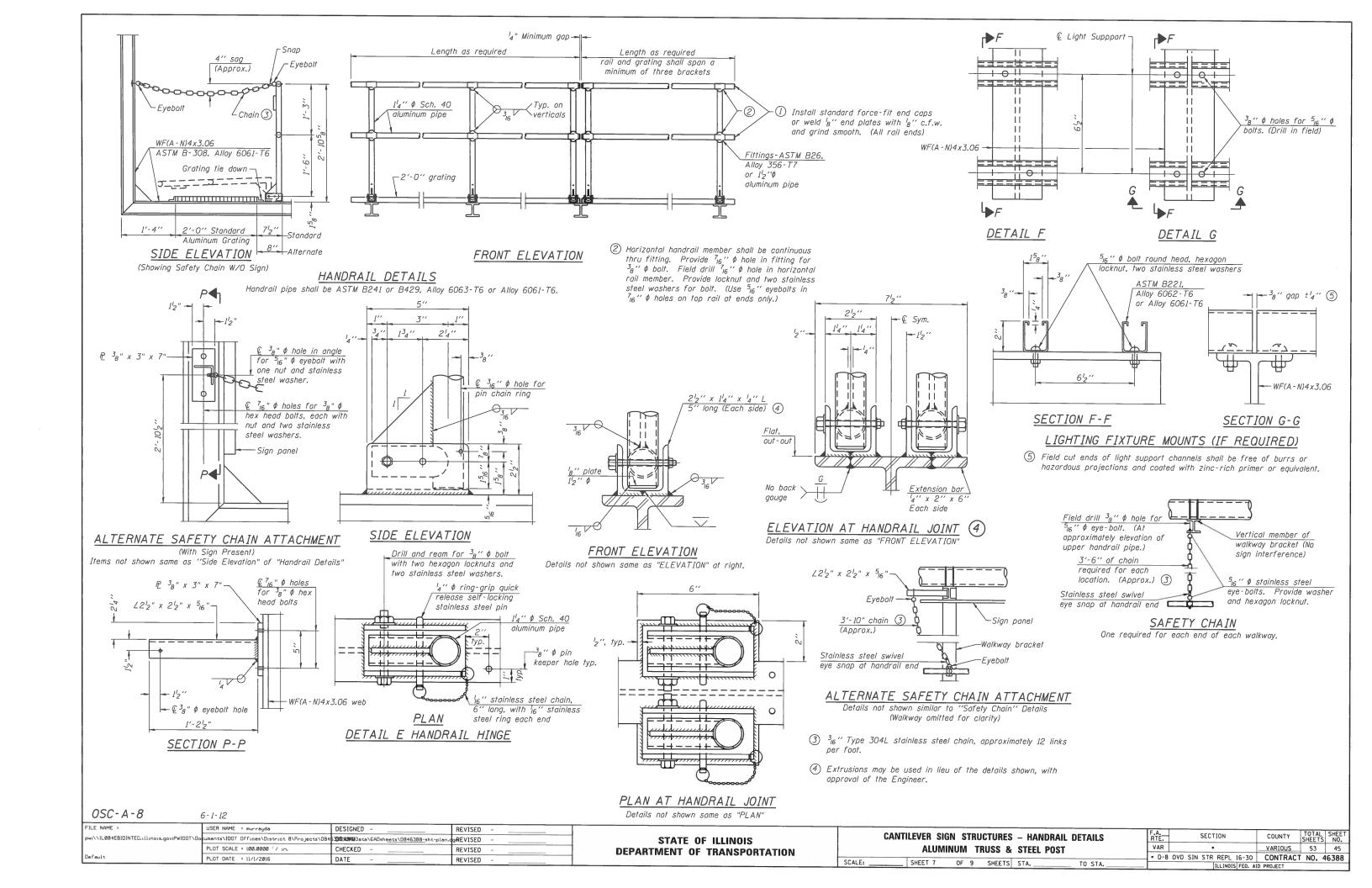
FILE NAME =	USER NAME = murrayda	DESIGNED -	REVISED	-	
pw:\\IL@84EBIDINTEG.:ll:no:s.gov:PWIDOT\Do	cuments\IDOT Offices\District 8\Projects\D84	SIBRXXXXIIData\EADsheets\0846388-sht-plan.c	gREVISED	-	
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Default	PLOT DATE = 11/1/2016	DATE	REVISED	-	

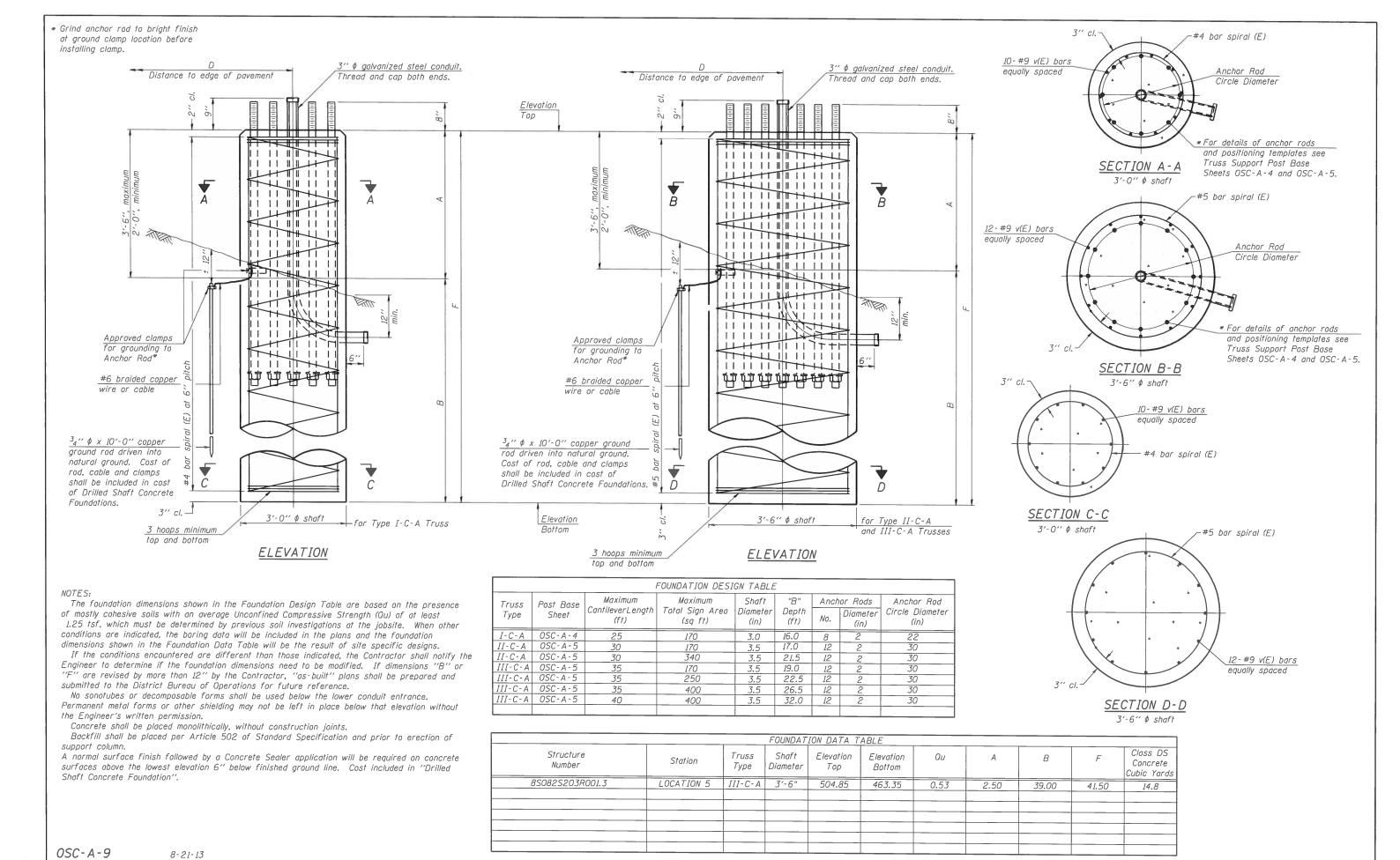
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

CANTILEVER SIGN STRUCTURES - ALUMINUM							WALKWAY	
				UM TRU				
	SHEET 5	OF	9	SHEETS	STA.		_ TO STA	_

	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	VAR		VARIOUS	53	43
_	• D-8	OVD SIN STR REPL 16-30	CONTRACT	NO. 4	6388
		THE INDIS FED. AT	ID PROJECT		





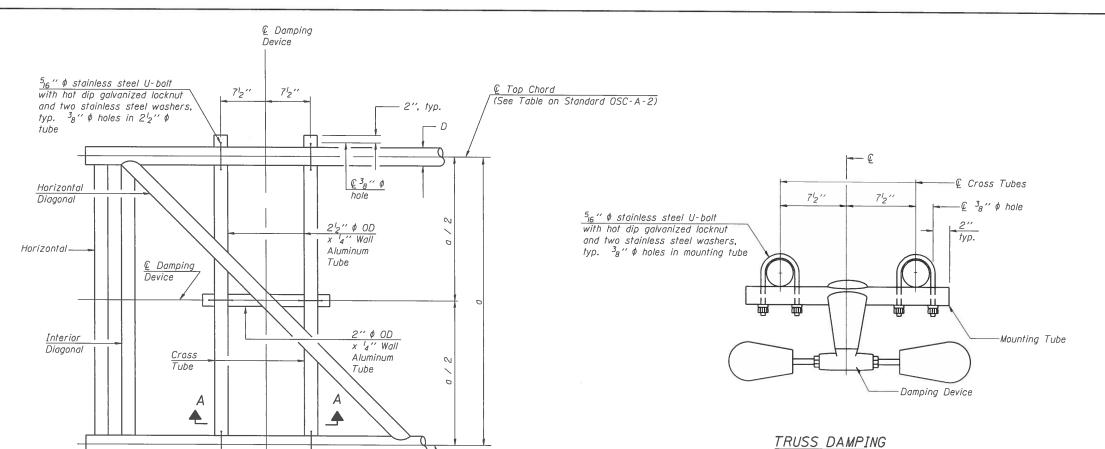


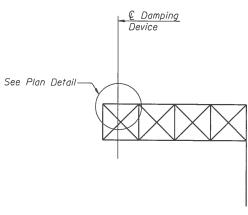
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - DRILLED SHAFT
ALUMINUM TRUSS & STEEL POST

SHEET 8 OF 9 SHEETS STA. TO STA.

SCALE:





### ELEVATION

Aluminum Cantilever Sign Structure

# DEVICE CONNECTION DETAIL

#### PLAN DETAIL

2'-0" (±6")

### GENERAL NOTES

Damper:

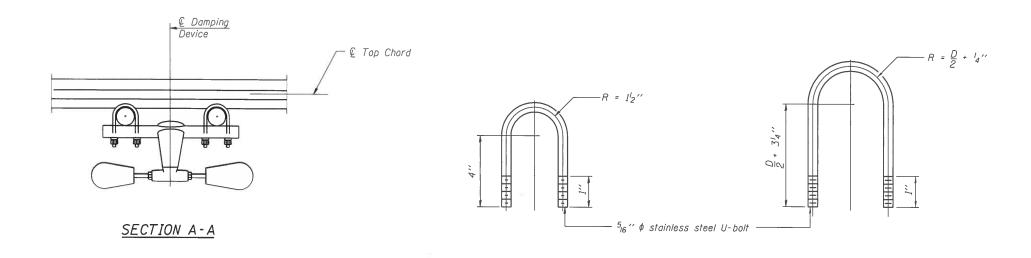
One damper per truss. (31 lbs. Stockbridge-Type Aluminum-

29" minimum between ends of weights)

Materials:

Aluminum tubes shall be ASTM B221 alloy 6061

temper T6



- € Top Chord

### DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL

(Typical)

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

SCALE:

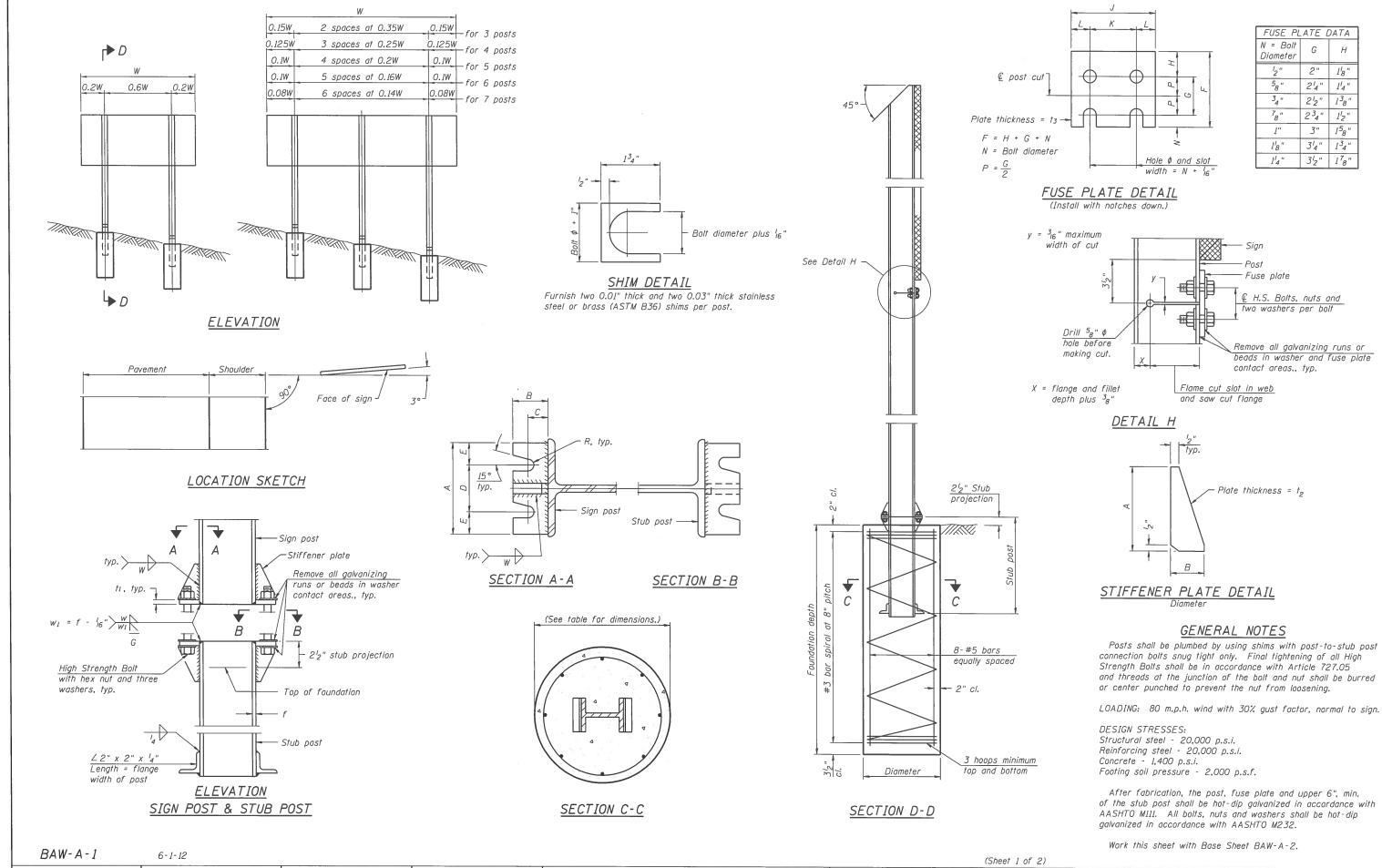
OSC-A-D 6-1-12 USER NAME = murrayda

FILE NAME = DESIGNED -REVISED pw:\\ILØ84EBIDINTEG.:11 uments\IDOT Offices\District 8\Projects\D84**5398XXXX**Data\&ADshe<u>ets\D846388-</u>sht-plan.cgREVISED PLOT SCALE = 100.0000 ' / in. CHECKED REVISED PLOT DATE = 11/1/2016 DATE

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

COUNTY TOTAL SHEET NO.

VARIOUS 53 47 CANTILEVER SIGN STRUCTURE SECTION VAR **DAMPING DEVICE** • D-8 OVD SIN STR REPL 16-30 CONTRACT NO. 46388 OF 9 SHEETS STA. TO STA.

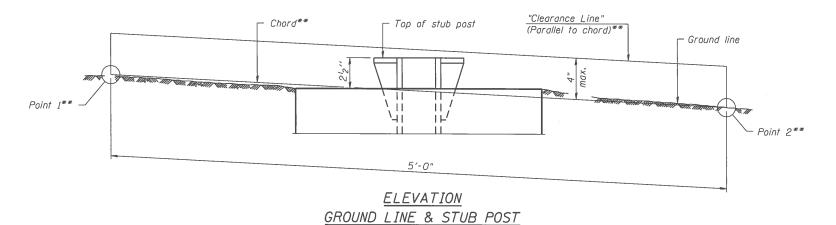


FILE NAME = USER NAME = murrayda DESIGNED -REVISED TOTAL SHEE NO. **BREAK-AWAY WIDE FLANGE** COUNTY \*:\\ILØ84EBIDINTEG.11 REVISED STATE OF ILLINOIS STEEL SIGN POST DETAILS VARIOUS 53 48 PLOT SCALE = 100.0000 ' / 10 CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** • D-8 OVD SIN STR REPL 16-30 CONTRACT NO. 46388
| ILLINOIS FED. AID PROJECT PLOT DATE = 10/31/2016 DATE REVISED SCALE: SHEET 1 OF 2 SHEETS STA.

			CONCF	RETE FOUNDAT	ION TABL	E				P03	ST TO	STUB	POST (	CONNEC	TION L	DATA			FU.	SE PLA	TE DA	TA
POST		Foundation		Re	einforceme	nt		Stub Post														
	Diameter	* Minimum Depth	Concrete (1) cu. yds.)	Vertical Bars Length	Bar S Diameter	pirals Length	lbs. 2	Length	Bolt Size	Α	В	С	D	Ε	†1	<i>†</i> 2	R	W	J	K	L	<i>†</i> 3
W6x9	2'-0"	6′-0"	0.70	5′-9"	1'-812"	79′-0"	78	2'-3"	<sup>5</sup> 8" x 3 <sup>1</sup> 4"	6"	24"	14"	31/2"	14"	34"	12"	"32 "	14"	4"	214"	78"	14"
W6x15	2'-0"	6′-0"	0.70	5′-9"	1'-8'2"	79′-0"	78	2'-6"	58" x 314"	6"	24"	14"	312"	14"	34"	2"	1132 "	14"	6"	31/2"	14"	38"
W8x18	2'-0"	6′-0"	0.70	5′-9"	1'-8'2"	79′-0"	78	2′-6"	3 <sub>4</sub> " x 3 <sup>3</sup> <sub>4</sub> "	6"	21/2"	138"	314"	138"	1"	2"	13, "	<sup>5</sup> 16 "	54"	234"	14"	38"
W10x22	2′-6"	6′-6"	1.18	6′-3"	2'-212"	105′-0"	92	3'-0"	3 <sub>4</sub> " x 3 <sup>3</sup> <sub>4</sub> "	6"	21/2"	138"	314"	138"	1"	2"	1332 "	516"	534"	234"	1/2"	2"
W10x26	2′-6"	7′-0"	1.27	6′-9"	2'-212"	112'-0"	98	3'-0"	<sup>7</sup> 8" x 4"	7"	234"	12"	4"	12"	1"	34"	1532 "	38"	534"	234"	1/2"	58"
W12x26	2'-6"	7′-9"	1.41	7′-6"	2'-2'2"	119'-0"	107	3'-0"	<sup>7</sup> 8" x 4"	7"	234"	1/2"	4"	1/2"	1"	34"	1532 "	38"	62"	31/2"	1/2"	58"
W14x30	3′-0"	7′-3"	1.90	7′-0"	2'-812"	145′-0"	113	3'-0"	7 <sub>8" X 4"</sub>	7"	234"	1'2"	4"	12"	1"	34"	1532 "	38"	634"	31/2"	158"	12"
W14x38	3′-0"	8'-0"	2.09	7′-9"	2'-812"	153'-0"	122	3′-6"	1" x 4 <sup>1</sup> 2"	712"	3"	134"	4"	134"	14"	34"	1732 "	38"	634"	31/2"	1 <sup>5</sup> 8"	12"
W16x45	3′-0"	8'-6"	2.23	8'-3"	2'-812"	162'-0"	130	3′-6"	I" x 4 <sup>1</sup> 2"	7/2"	3"	134"	4"	134"	14"	34"	1732 "	38"	7"	3/2"	134"	12"

<sup>\*</sup>Dimensional changes required for varying site conditions shall be approved by the Engineer.

										FUS	E PLATE		E								
POST											Sign I	Height									
, 00.	4'-0"	5′-0"	6′-0"	7′-0"	8'-0"	9′-0"	10'-0"	11'-0"	12′-0"	13'-0"	14'-0"	15′-0"	16'-0"	17'-0''	18'-0''	19'-0''	20'-0''	21'-0''	22'-0"	23'-0"	24'-0''
W6x9	<sup>1</sup> 2" x 1 <sup>1</sup> 2"	12" x 112"	12" x 112"	'2" x 1'2"																	
W6x15	12" x 134"	12" x 134"	12" x 134"	<sup>5</sup> 8" x 2"	<sup>5</sup> 8" x 2"	3 <sub>4</sub> " x 2"	3 <sub>4</sub> " x 2"	<sup>3</sup> <sub>4</sub> " x 2"	3 <sub>4</sub> " x 2"												
W8x18	12" x 134"	12" x 134"	12" x 134"	12" x 134"	<sup>5</sup> 8" x 2"	<sup>5</sup> 8" x 2"	3 <sub>4</sub> " x 2"	<sup>3</sup> <sub>4</sub> " x 2"	3 <sub>4</sub> " x 2"	3 <sub>4</sub> " x 2"											
W10x22	<sup>1</sup> <sub>2</sub> " x 2"	<sup>1</sup> 2" x 2"	½" x 2"	<sup>1</sup> 2" x 2"	12" x 2"	<sup>5</sup> 8" x 2"	<sup>5</sup> 8" x 2"	3 <sub>4"</sub> x 21 <sub>4"</sub>	34" x 214"	34" x 214"	3 <sub>4</sub> " x 2 <sup>1</sup> <sub>4</sub> "	34" x 214"	34" x 214"								
W10x26	½" x 2"	1 <sub>2</sub> " x 2"	½" x 2"	<sup>l</sup> 2" x 2"	<sup>1</sup> 2" x 2"	<sup>5</sup> 8" x 2 <sup>1</sup> 4"	<sup>5</sup> 8" x 2 <sup>1</sup> 4"	3 <sub>4</sub> " x 21 <sub>2</sub> "	34" x 212"	34" x 212"	3 <sub>4</sub> " x 2 <sup>1</sup> 2"	3 <sub>4"</sub> x 2 <sup>1</sup> 2"	34" x 212"	34" x 212"							
W12x26	1 <sub>2</sub> " x 2"	1 <sub>2</sub> " x 2"	½" x 2"	<sup>1</sup> <sub>2</sub> " x 2"	<sup>1</sup> 2" x 2"	<sup>5</sup> 8" x 2 <sup>1</sup> 4"	<sup>5</sup> 8" x 2 <sup>1</sup> 4"	3 <sub>4</sub> " x 2 <sup>1</sup> 2"	34" x 212"	34" x 212"	3 <sub>4</sub> " x 2 <sup>1</sup> 2"	3 <sub>4"</sub> x 2 <sup>1</sup> 2"	3 <sub>4"</sub> x 2 <sup>1</sup> <sub>2</sub> "	34" x 212"	3 <sub>4"</sub> x 2 <sup>1</sup> 2"						
W14x30	½" x 2"	½" x 2"	½" x 2"	½" x 2"						34" x 214"					34" x 214"	34" x 214"	3 <sub>4"</sub> x 2 <sup>1</sup> <sub>4</sub> "				
W14x38	½" x 2"	12" x 2"		<sup>1</sup> <sub>2</sub> " x 2"	1 <sub>2</sub> " x 2"	58" x 214"	<sup>5</sup> 8" x 2 <sup>1</sup> 4"	3 <sub>4</sub> " x 2 <sup>1</sup> 2"	34" x 212"	3 <sub>4</sub> " x 2 <sup>1</sup> 2"	3 <sub>4</sub> " x 2 <sup>1</sup> 2"	<sup>7</sup> 8" x 2 <sup>1</sup> 2"	78" x 212"	1" x 234"	1" x 23 <sub>4</sub> "	1" x 234"	1" x 2 <sup>3</sup> 4"	1" x 234"	1" x 234"	1" x 234"	1" x 234"
W16x45		<sup>1</sup> 2" x 2"	½" x 2"	½" x 2"	1 <sub>2</sub> " x 2"	½" x 2"	½" x 2"	<sup>5</sup> 8" x 2 <sup>1</sup> 4"	58" x 214"	58" x 214"	3 <sub>4</sub> " x 21 <sub>2</sub> "	3 <sub>4"</sub> x 21 <sub>2"</sub>	78" x 212"	78" x 212"	78" x 212"	1" x 234"	1" x 23 <sub>4</sub> "	1" x 23 <sub>4</sub> "	1" x 234"	1" x 234"	1" x 234"



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

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

BAW-A-2

6-1-12

FILE NAME = USER NAME = murrayda DESIGNED -REVISED ow:\\iL084EBIDINTEG.:ll:no:s.gov:PWI001 cuments\IDOT Offices\Oistrict 8\Projects\O84**.3BRXXXX**Oata\EADsh<u>eets\O846388</u>-sht-plan gREVISED PLOT SCALE = 100.0000 '/ in. CHECKED -REVISED Default PLOT DATE = 10/31/2016 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**  (Sheet 2 of 2)

SCALE:

BREAK-AWAY WIDE FLANGE STEEL SIGN POST TABLES SHEET 2 OF 2 SHEETS STA. TO STA.

| No. | No.

Illinois Department of Transport  Division of Highways Illinois Department of Transport	nsportati	on			S		Date	8/17/	<u>65</u>
					IL	158 WB at IL 3 LOGGED BY		Bill Cange	
Dist 8 OVD SIN STR  SECTION RPL_ 16-18	_ LOC	OITA	v	, SEC. 2	3, TWP.	1S, RNG. 10W, 3 PM			
COUNTY Monroe DRI	LLING	METH	OD		Hol	low Stem Auger HAMMER TYPE	140# /	Automatic	
STRUCT. NO. N/A		D	В	U	М	Surface Water Elev ft			_
Station N/A	_	E	L	С	0	Stream Bed Elev ft			
		T	o W	S	S			1	
BORING NO.         4 Right Support           Station         121+50		н	S	Qu	Т	Groundwater Elev.: First Encounter Not Observered ft			
Offset 30.00ft Right						Upon Completion Dry ft			
Ground Surface Elev. 555.7	ft	(ft)	(/6")	(tsf)	(%)	After Hrs. ft			
Dad Basses CHT		_							
Red-Brown SILT									
		-							
		_						1	
								i i	
		_							
		5	2	0.58	24	1			
		_		E					
		_							
			7	0.79	22				
			<b>'</b>	S .73	22				
	547.2			<del>-</del>					
Brown and Rust Silty CLAY with some Gravel									
		10	100+	1.94	24				
		-		Ε					
			1						
	544.0	- –							
Refusal on Bedrock – END OF									
BORING									
		_							
		15							
		_	1						
					1				
		_							
			-						
			1			11		1 1	

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)

FILE NAME =	USER NAME = murrayda	DESIGNED -	REVISED -			F.A. SECTION COUNTY TOTAL SHEET
pw:\\IL084EBIDINTEG.:ll:no:s.gov:PWIDOT\Od	cuments\IDOT Offices\District 8\Projects\D84	<b>388 XXXX</b> Data\&ADsh <u>eets\0846388-</u> sht-plan.c	gREVISED -	STATE OF ILLINOIS	BORING LOGS - NO. 4	RTE. SECTION COUNTY SHEETS NO.
	PLOT SCALE = 100.0000 ' / 10.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	5011114G E0G0 - 140, 4	VAR • VARIOUS 53 50
Default	PLOT DATE = 10/31/2016	DATE	REVISED -	DEL ANTINERT OF THARBITOTION	SCALE: SHEET 1 OF 4 SHEETS STA, TO STA.	D-8 OVD SIN STR REPL 16-30   CONTACT 46388    ILLINOIS FED. AID PROJECT

BBS, from 137 (Rev. 8-99)

of Transpor  Division of Highways Illinois Department of Tra	tatiU	11			J	OIL BORING	LUG		Date	12	77/
ROUTE Various DESCR Dist 8 OVD SIN STR				IL 203	3 NB	at Ramp to I-55/70 NB	LOGG	ED B	YL	arry F	or
SECTION REPL 16-18		CATIO	ON _	, SEC.	8, TWI	P. 2N, RNG. 9W, 3 PM					-
COUNTY St. Clair DF	RILLING	ME	THOD		Hollo	w Stem Auger HA	MMER TYPE	1	40# A	utoma	atio
STRUCT. NO.		D	В	U	М	Surface Water Elev.	f+	D	В	U	
Station		E	L	С	0	Stream Bed Elev.	ft	E	L	С	
		P T	0	S	ı			P	0	S	
BORING NO. <u>ST 5</u> Station <u>113 + 97</u>		н	W	Qu	S	Groundwater Elev.:		H	W	Qu	
Station 113 + 97 Offset 20.70ft Right		"	3	Qu	'	First Encounter	397.1 ft =	"	3	Qu	
Ground Surface Elev. 429.1	ft	(ft)	(⁄6″)	(tsf)	(%)	Upon Completion After Hrs	π ft	(ft)	(/6")	(tsf)	(
						Brown LOAM (Fill) (conti			12	0.40	t
Asphalt and Concrete									12	S/0	L
	427.6	-						_	}		
Rock Fill	426.6								1		
	120.0							_	İ		
Brown Silt LOAM (Fill)									1		
		_	1				404	_	7	NC	┝
		_5	1	0.40	17		404.	1 –25	8	140	╁
			2	S/0		Gray Silty CLAY			10	2.09	T
	422.6	_								S⁄15	Γ
Brown Sandy LOAM (Fill)			1						1		
Brown Sandy LOAM (Fill)		_	2	NC	16		401.	_	-		
			2				401.	1	1		
	420.1	_				Gray Sand LOAM		_	1		
Brown LOAM (Fill)		-10		0.00	40			_30	2	0.00	$\perp$
		-	7	0.38 S/15	19			_	6 10	0.38 S/5	
				0.13					10	3/5	+
		_					397.	1 -	1		
									]		
						Gray Fine Grained SAND			1		
		_							1		
									1		
		-15	7					-35	6		
			10	0.88	16	1			6	NC	t
			12	S/5					6		
						II .			1	1	1
		_		}				_	-		
		_						_	-		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

Begin Rotary Mud

(9)	<b>V</b>
	A)

# Illinois Department

## COIL PODING LOC

Page <u>2</u> of <u>3</u>

OT I ranspor  Division of Highways Illinois Department of Tr					3	UIL BURING LU	JG		Date	12	2/7/95
ROUTE Various DESCR				11 20:	3 NB	at Ramp to L-55/70 NR	LOGGE	D RV	/ 1	arry E	ord
Dist 8 OVD SIN STR	₹									ully I	oru
SECTION REPL 16-18									-		
COUNTY St. Clair DI	RILLING	ME	THOD		Hollo	ow Stem Auger HAMME	R TYPE	14	0# A	utoma	ntic
STRUCT. NO.		D	В	U	М	Surface Water Elev.	ft	D	В	υ	М
Station		E P	L	C S	0	Stream Bed Elev.	ft	E P	D L	C S	0
BORING NO. ST 5		T H	W S	Qu	S	Groundwater Elev.:		T H	W S	O	S
Station         113 + 97           Offset         20.70ft Right	_	"	3	Qu	'	First Encounter 397 Upon Completion	<u>.1</u> ft ft	"	3	Qu	Т
Ground Surface Elev. 429.1		(ft)	(⁄6″)	(tsf)	(%)	After Hrs	ft	(ft)	(⁄6″)	(tsf)	(%)
Gray Fine Grained SAND (continued)		_				Gray Fine SAND (continued)		4			
2								$\Box$			
		_	1					$\dashv$			
		_	5 6	NC	_				25 40	NC	
			10	NC	_				35	NC	_
		-45						-65			
	383.6	_					363.6				
Gray Fine to Coarse SAND						Gray Fine to Medium SAND					
								-			
		_	14 21	NC	<u> </u>			-	23	NC	
			24					$\exists$	24		
	378.6	-50		20				<u>~70</u>			
	3/8.0	_						$\dashv$			
Gray Fine SAND		_									
								$\dashv$			
			46						40		
		_	16 22	NC	_			-	13 17	NC	_
		_	23					$\dashv$	13		
		<u>-55</u>					353.6	<u>-75</u>			
		_					333.0				
		_				Gray Fine SAND		4			
		_						$\exists$			
			14					=	17		
		_	17	NC	-				20	NC	_
		-	21						27		
1		-60	1	I .	I	II .		-80			I

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

FILE NAME =	USER NAME = murrayda	DESIGNED -	REVISED	-
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	PLOT SCALE = 99.9884 '/ in.	CHECKED -	REVISED	-
Default	PLOT DATE = 10/31/2016	DATE	REVISED	-

STAT	E OI	ILLINOIS
DEPARTMENT	0F	<b>TRANSPORTATION</b>

	DODU	NO 10	00 100	ATION NO 5		F.A RTE.		SECTION		COUNTY	TOTAL	SHEE NO.
	BORI	NG LO	GS – LOC	ATION NO. 5		VAR		•		VARIOUS	53	51
						■ D-8	OVD SI	N STR REPL	16-30	CONTRACT	46388	
SCALE:	SHEET 2	OF ·	4 SHEETS	STA	TO STA.			ILLINO	S FED. A	ID PROJECT		

Illinois Depart of Transportat  Division of Highways Illinois Department of Transport	tion	SOIL BORING LOG	Page <u>3</u> of <u>3</u>
		3 NB at Ramp to I-55/70 NB LOG	GED BY Larry Ford
Dist 8 OVD SIN STR SECTION REPL 16-18 L			
COUNTY St. Clair DRILLIF	NG METHOD	Hollow Stem Auger HAMMER TY	PE140# Automatic
STRUCT. NO.           Station           BORING NO.         ST 5           Station         113+97           Offset         20.70ft Right           Ground Surface Elev.         429.1         f           Gray Fine SAND (continued)	P O S T W H S Qu	Upon Completion ft	
344 END OF BORING			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

Default	PLOT DATE = 10/31/2016	DATE	REVISED	-
	PLOT SCALE = 100.0000 '/ in.	CHECKED	REVISED	-
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STATE	0F	ILLINOIS
DEPARTMENT (	OF 1	<b>TRANSPORTATION</b>

SCALE: \_\_\_

200						F.A. RTE.	SECT	ION	COUNTY	TOTAL	SHEET NO.
BOR	ING L	.0G	S - LOC	ATION NO. 5		VAR			VARIOUS	53	52
 						⇒ D-8	OVD SIN STR	REPL 16-30	CONTACT 46	388	
 SHEET 3	OF	4	SHEETS	STA	TO STA			ILLINOIS FED. A	D PROJECT		

Illinois Depart of Transportat Division of Highways Illinois Department of Transpor	ion	IL		S	FOIL BORING LOG  Date5/
				11	3 SB at IL 158 LOGGED BY F.H (T
Dist 8 OVD SIN STR	OIN			II.	S SB at IL 156 LUGGED BY F.H (1
SECTION RPL 16-18	LOCATI	ON _	, SEC.	22, TV	VP. 1S, RNG. 10W, 3 PM
COUNTY Monroe DRILLI	NG ME	THOD		Holle	ow Stem Auger HAMMER TYPE Automatic
STRUCT NO N/A	D	В	U	м	Surface Water Elev ft
STRUCT. NO.         N/A           Station         N/A	E	L	С	0	Stream Bed Elev ft
	1 12	0	S	1	
BORING NO. B-1 Left Support Station	l h	S	Ou	S	Groundwater Elev.:
		1	1		First Encounter None ft Upon Completion Not Taken ft
Ground Surface Elev. ft	ft (ft)	(/6")	(tsf)	(%)	After Hrs * ft
Brown (Moist) Lean CLAY with Limestone Fragments (Fill)		4			
A-7-6(19)		8	0.75	13	
See Class 4 ft		7	P		
	_				
		]			
		2			
	_	2	0.59	19	
	5	4	В		
		-			
	-	5			
		3	0.39	15	
		13	В		
Grov (Hand Day) Finally County !!:	_	31			
Gray (Hard, Dry) Finely Crystalline Weathered LIMESTONE		31	<del>  _ </del>	2	1
		50⁄3.5			
Borehole continued with rock	_10	1	1		
coring.	_	1			-
	_	]			
	_	-			
Da .		-			
	_	-			
		1			
	_ -15	1			
		1			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation  Division of Highways Illinois Department of Transportation	ROCK	BORING		LOG	
ROUTE Various DESCRIPTION  Dist 8 OVD SIN STR  SECTION RPL 16-18 LOCATION , SEC				_ LC	GGI
BORING NO. B-1 Left Support Top of Rock I	EL TYPE & SIZE_ r Elev. ev.	NQ2 in ft	D E P T H (ft)	1 1	R E C O V E R Y (% 388 388 388
END OF BORING AND ROCK CORE			_15	1	38

		- 1
-25		
\$ <del></del>		
5 <del></del>		
A		
	<u>-25</u>	

FILE NAME = USER NAME = murrayda DESIGNED -REVISED pw:\\IL084EBIDINTEG.:llinois.gov:PWIDO cuments\IDOT Offices\District 8\Projects\D84638843HQData\EADsheets\D846388-sht-plan.cgREVISED PLOT SCALE = 100.0000 '/ in. CHECKED REVISED PLOT DATE = 10/31/2016 DATE REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

COUNTY TOTAL SHEET NO. SECTION **BORING LOGS - LOCATION NO. 7** VAR VARIOUS 53 53 - D-8 OVD SIN STR REPL 16-30 CONTRACT 46388 SCALE: \_ SHEET 4 OF 4 SHEETS STA. TO STA.

BBS, form 138 (Rev. 8-99)

Page <u>2</u> of <u>2</u>

Date \_\_\_\_5/23/16\_\_

CORE

E

N

G Н

LOGGED BY F.H (TSi)

С

O V E R Y

1 38 8

(ft) (#) (%) (%) (min/ft) (tsf) 38 8 38 8 38 8 38 8