

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	D9 ITS SIGNING 2017-1	JEFFERSON/ WILLIAMSON	38	1
		ILLINOIS	CONTRACT NO. 78337	

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HIGHWAY STANDARDS

000001-06	701401-10
280001-07	701406-11
630201-07	701428-01
701101-05	701901-06
701400-09	878001-10

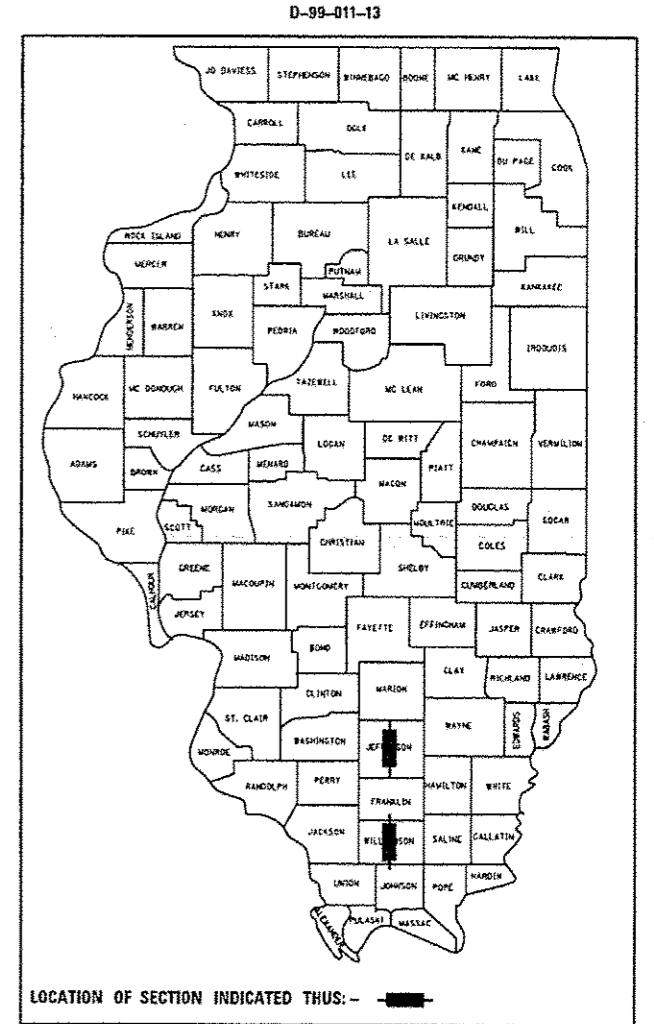
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

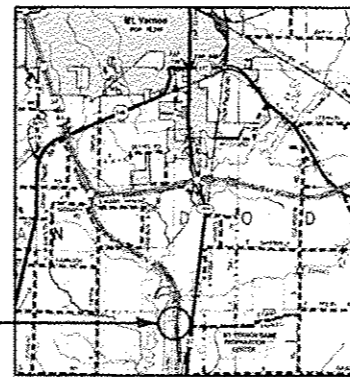
FAI ROUTE 57 (I-57)
SECTION D9 ITS SIGNING 2017-1

CHANGEABLE MESSAGE SIGNS SURVEILLANCE
JEFFERSON /WILLIAMSON COUNTY

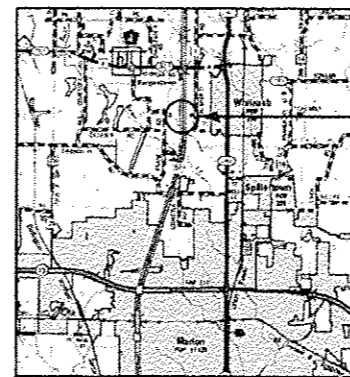
C-99-013-13



EFK Moen, LLC
Civil Engineering Design



JEFFERSON COUNTY



WILLIAMSON COUNTY

I-57 SOUTHBOUND
STA. 432 + 50 MM 88.63
STR. NO. 9S0411057L088.6

I-57 NORTHBOUND
STA. 292 + 50 MM 56.56
STR. NO. 9S1001057R056.6

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

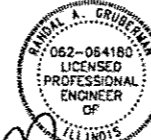
PROJECT ENGINEER: CHARLES STEIN, PE (618-351-5210)
PROJECT DESIGNER

CONTRACT NO. 78337



Shelley L. Dintelman 3/19/2016
Shelley L. Dintelman, P.E. Date
License Expires 11/30/2017

THE SEAL SHOWN ABOVE IS VALID FOR THE FOLLOWING SHEETS IN THESE PLANS WHICH WERE PREPARED UNDER MY DIRECT SUPERVISION:
SHEETS 1, 3-7, 9-10, 13-14, 17-28, 33-38



Randal A. Gruberman 3/14/16
Randal A. Gruberman, P.E. Date
License Expires 11/30/2017

THE SEAL SHOWN ABOVE IS VALID FOR THE FOLLOWING SHEETS IN THESE PLANS WHICH WERE PREPARED UNDER MY DIRECT SUPERVISION:
SHEETS 2, 12, 16, 29-32

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED *March 14 2016*
Garry L. Kurn
REGION FIVE ENGINEER
Dec 9 2016
Maureen M. Addis Perkin
ENGINEER OF DESIGN AND ENVIRONMENT
Dec 9 2016
Randal A. Gruberman
DIRECTOR OF PROGRAM DEVELOPMENT

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OF THE STATE OF ILLINOIS

INTELLIGENT TRANSPORTATION SYSTEMS (ITS) ITEMS

	EXISTING (EX)	PROPOSED (PR)
CCTV POLE	○	●
CLOSED CIRCUIT TV	Ⓢ	Ⓢ
DYNAMIC MESSAGE SIGN		DMS
CELLULAR MODEM	☎	☎

UNDERGROUND UTILITY ITEMS

	EX	PR	ABANDONED
ELECTRIC CABLE	—E—	—E—	—E—
FIBER OPTIC CONDUIT (SPARE)	—FO—	—FO—	—FO—
DATA CABLE	—D—	—D—	—D—

UTILITIES ITEMS

	EX	PR
ITS CABINET	Ⓢ	Ⓢ
HANDHOLE	Ⓢ	Ⓢ
HEAVY DUTY HANDHOLE	Ⓢ	Ⓢ
JUNCTION BOX	Ⓢ	Ⓢ
LIGHT POLE	Ⓢ	Ⓢ
ELECTRIC MEYER	Ⓢ	Ⓢ
POWER POLE	Ⓢ	Ⓢ
ELECTRICAL DISCONNECT	Ⓢ	Ⓢ
PAD MOUNTED TRANSFORMER (480V/240V)	Ⓢ	Ⓢ
POLE MOUNTED TRANSFORMER	Ⓢ	Ⓢ

GENERAL NOTES

1. THE COST OF SPLICES, MARKERS, PATCH PANELS AND PATCH CHORDS SHALL BE INCLUDED IN THE UNIT COST OF EACH EQUIPMENT CABINET PER THE SPECIAL PROVISIONS.
2. DYNAMIC MESSAGE SIGN (DMS) SUPPORTING SIGN STRUCTURE AND FOUNDATION WORK IS SHOWN ON STRUCTURAL DRAWINGS. THE INSTALLATION OF THESE AND OTHER FOUNDATIONS, INCLUDING BUT NOT LIMITED TO CONDUITS AND GROUNDING, SHALL BE COORDINATED WITH THE ELECTRICAL WORK FOR DMS, CCTV VERIFICATION CAMERA AND OTHER RELATED EQUIPMENT.
3. FOR ALL INTELLIGENT TRANSPORTATIONS SYSTEMS (ITS) ASSEMBLIES/EQUIPMENT, SPECIAL LABELING FOR ENCLOSURES, CABLES (POWER AND COMMUNICATIONS), EQUIPMENT, ETC. SHALL BE PROVIDED. THE LABELING IS REQUIRED AT BOTH ENDS OF THE ITS ASSEMBLY COMPONENT (E.G. INSIDE ENCLOSURES AT THE ITS ASSEMBLY/COMPONENT) AS WELL AS AT THE OTHER CONNECTING END (E.G. EQUIPMENT CABINET/ SERVICE ENTRANCE). THE LABELING IS ALSO REQUIRED WHERE CABLES ARE SPLICED IN HANDHOLES AND JUNCTION BOXES. ADDITIONALLY, SPARE CONDUITS INSIDE CABINETS AND FACILITIES SHALL BE LABELED AS SPARE AND A DESIGNATION OF THE OTHER END SHALL BE PROVIDED. THE COST OF LABELING SHALL BE INCLUDED IN THE WORK INCLUDING CONVERSIONS OF THE ITS ASSEMBLY/COMPONENT AS STATED IN THE RESPECTIVE ITS ASSEMBLY/COMPONENT SPECIAL PROVISION.
4. ANY CONDUIT, FOR ITS POWER OR COMMUNICATIONS CABLING ENTERING A POLE MOUNTED OR ABOVE GROUND ENCLOSURE, EQUIPMENT FOUNDATION, OPERATIONAL BUILDING, MAINTENANCE FACILITY SHALL BE GALVANIZED STEEL CONDUIT. THE GALVANIZED STEEL CONDUIT SHALL EXTEND A MINIMUM OF FIVE FEET (5') OUTSIDE CONCRETE FOUNDATIONS, AND A MINIMUM OF TEN FEET (10') OUTSIDE POLE MOUNTED/ABOVE GROUND ENCLOSURES. THE COST OF SUCH GALVANIZED STEEL CONDUIT SHALL BE INCLUDED IN THE ELECTRICAL WORK FOR THE EQUIPMENT BEING CONNECTED.
5. THE CONTRACTOR SHALL COORDINATE WITH THE CONSTRUCTION MANAGER AND THE IT DATA COMMUNICATION MANAGER, IN ADVANCE OF, ANY IMPACT TO ITS EQUIPMENT BY CONSTRUCTION (INSTALL, REMOVE, RELOCATE, DISCONNECT OR MODIFY).
6. EXISTING SURFACE DISTURBED DURING EXCAVATION FOR FOUNDATIONS AND PUSH PITS SHALL BE RESTORED TO THE LIMITS AND CONDITION SPECIFIED BY THE ENGINEER OR AS SHOWN ON THE PLANS. UNLESS NOTED OTHERWISE ON THE PLANS THE REMOVAL AND RESTORATION SHALL BE INCLUDED IN THE CONTRACT.
7. UTILITIES ARE SHOWN IN ACCORDANCE WITH THE BEST AVAILABLE INFORMATION AND THEIR TRUE LOCATIONS ARE NOT GUARANTEED TO BE SHOWN IN THE PLANS.
8. EXISTING UNDERGROUND AND ABOVE-GRADE FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED ON THESE CONTRACT DOCUMENTS BASED UPON THE INFORMATION AND SURVEYS AVAILABLE AT THE TIME OF DRAWING PREPARATION. THE LOCATION OF THESE FEATURES MUST, THEREFORE, BE CONSIDERED APPROXIMATE ONLY. IN ADDITION, THERE MAY BE OTHER FACILITIES, STRUCTURES, AND UTILITIES WHICH DID NOT EXIST OR THE EXISTENCE OF WHICH WAS NOT KNOWN AT THE TIME OF DRAWING PREPARATION. IT IS THE SOLE RESPONSIBILITY OF CONTRACTOR(S) TO HAVE ALL EXISTING FACILITIES, STRUCTURES, AND UTILITIES LOCATED IN THE FIELD PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITY; AND TO PROTECT ALL SUCH EXISTING FEATURES DURING CONSTRUCTION.
9. GRADING SHALL BE DONE BY HAND AROUND LIGHT POLE, UTILITY POLES, SIGN POSTS, TREES OR OTHER NATURAL OR MAN-MADE OBJECTS WHERE SHALLOW FILLS OR CUTS ARE ADJACENT TO THE ITEMS. IT IS THE INTENT THAT THE LIMITS OF CONSTRUCTION BE SUCH AS TO PRESERVE IN THE ORIGINAL STATE AS MUCH AREA AS POSSIBLE. THE DECISION AS TO ITEMS TO REMAIN IN PLACE SHALL BE DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER SQUARE YARD FOR GRADING AND SHAPING FORESLOPES AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. EARTHWORK COMPACTION SHALL BE TO THE SATISFACTION OF THE ENGINEER.
10. SEEDING SHALL BE DONE ON ALL AREAS THAT ARE DISTURBED BY CONSTRUCTION OPERATIONS AS DIRECTED BY THE ENGINEER. SEEDING SHALL BE PAID FOR ONLY WITHIN THE PROPOSED CONSTRUCTION LIMITS, RIGHT-OF-WAY, OR EASEMENT LIMITS. ALL AREAS DISTURBED BY THE CONTRACTOR OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE SEEDED, AS DIRECTED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.
11. IF ASH TREES ARE REMOVED ON THE PROJECT, THE CONTRACTOR SHALL BECOME FAMILIAR WITH AND COMPLY WITH MEASURES SPECIFIED BY THE ILLINOIS DEPARTMENT OF AGRICULTURE (IDOA) TO PREVENT THE SPREAD OF THE EMERALD ASH BORER. THE IDOA INFORMATION FOR ASH TREE REMOVAL CAN BE FOUND ON THE IDOA WEBSITE AT WWW.AGR.STATE.IL.US/EAB.
12. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL EXISTING FIELD DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

ITS NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO PERFORMING ANY EXCAVATION, INSTALLING GROUND ROD AND/OR FOUNDATIONS.
2. LOCATIONS OF ITS AND POWER ELEMENTS ARE APPROXIMATE. FINAL LOCATIONS WILL BE APPROVED BY THE DEPARTMENT. THE CONTRACTOR SHALL STAKE FIELD LOCATIONS AND THE DEPARTMENT WILL VERIFY AND APPROVE FINAL LOCATIONS.
3. THE CONTRACTOR IS RESPONSIBLE FOR OPERATING AND MAINTAINING PROPOSED ITS EQUIPMENT. THE COST OF SUCH MAINTENANCE AND OPERATION IS INCLUDED IN EACH TYPE OF PROPOSED ITS EQUIPMENT UNTIL FINAL ACCEPTANCE.
4. THE CONTRACTOR SHALL NOT DISTURB WETLAND AREAS AND/OR WATERS OF THE U.S.
5. THE CONTRACTOR SHALL PROVIDE THE MINIMUM SPECIFIED SLACK LENGTH OF COMMUNICATIONS LOOPED IN EACH HANDHOLE OR JUNCTION BOX. RESPECTIVE MINIMUM SLACK LENGTHS SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS, OR AS DIRECTED BY THE ENGINEER.
6. CATEGORY 6 CABLE SHALL BE PULLED UN-SPLICED FROM CCTV VERIFICATION CAMERA TO ITS CABINET.
7. THE CONTRACTOR IS RESPONSIBLE FOR ALL DMS AND CCTV LICENSING FOR A COMPLETE AND OPERATIONAL SYSTEM.
8. THE CONTRACTOR IS RESPONSIBLE FOR ALL PROGRAMMING AND VIRTUAL PRIVATE NETWORK CONFIGURATION FROM THE DESIGNATED REMOTE OPERATIONS TO THE DMS AND CCTV CAMERAS. CONTRACTOR SHALL COORDINATE WITH THE DEPARTMENT IT FOR ALL PROGRAMMING AND INTEGRATION OF DMS AND CCTV CAMERAS INTO THE EXISTING DEPARTMENT NETWORK.
9. THE CONTRACTOR IS RESPONSIBLE FOR THE SETUP OF CELLULAR MODEMS AT EACH DMS SITE LOCATION. CONTRACTOR SHALL VERIFY 4G CELLULAR DATA SERVICE IS AVAILABLE AT EACH LOCATION WITH CELLULAR DATA SERVICE PROVIDER.
10. THE CONTRACTOR SHALL PROVIDE (1) ONE YEAR OF CELLULAR DATA SERVICE VIA CONTRACTOR PROVIDED CELLULAR 4G MODEM AT BOTH DMS SITE LOCATIONS.
11. THE CONTRACTOR IS RESPONSIBLE FOR THE SETUP OF ALL DMS AND CCTV CAMERA SOFTWARE FOR REMOTE OPERATIONS OF DMS AND CCTV SYSTEMS ON CONTRACTOR PROVIDED LAPTOP TO BE ISSUED AS PART OF THIS PROJECT.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING CCTV CAMERA VIEWS AND SETTING (RESOLUTION & FRAME RATE) WITH THE DEPARTMENT STAFF PRIOR TO FINAL INSTALLATION.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EQUIPMENT GROUNDING AND LIGHTNING PROTECTION (I.E. ITS CABINET EQUIPMENT, CCTV POWER INJECTOR, NETWORK ELECTRONICS, CCTV CABLING, ETC.).
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NETWORK EQUIPMENT PROGRAMMING AND COORDINATING NETWORK IP AND SUBNET MASK SCHEMES WITH THE DEPARTMENT IT STAFF PRIOR TO FINAL INSTALLATION.

Prepared By: *Joe Z...*
DISTRICT SURVEY & PLANS ENGINEER

Examined By: *[Signature]*
DISTRICT LAND ACQUISITION ENGINEER

Examined By: *[Signature]*
DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By: *[Signature]*
DISTRICT OPERATIONS ENGINEER

Examined By: *[Signature]*
DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By: _____
DISTRICT CONSTRUCTION ENGINEER

Examined By: _____
DISTRICT MATERIALS ENGINEER

FILE NAME: 02 General Notes.dgn	USER NAME: jlardeen	DESIGNED: RAG	REVISED: -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SYMBOLS, GENERAL & ITS NOTES	P.L.T. RTE. 1-57	SECTION 09 ITS SIGNING 2017A	COUNTY JEFFERSON/WILLIAMSON	TOTAL SHEETS 38	SHEET NO. 2		
		DRAWN: DTL	REVISED: -			SCALE: N.A.	SHEET 1 OF 1 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT			
		CHECKED: KLG	REVISED: -									
		DATE: 03-16-15	REVISED: -									

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				JEFFERSON	WILLIAMSON
				TRAFFIC SIGNS 0021 RURAL	TRAFFIC SIGNS 0021 RURAL
25000210	SEEDING, CLASS 2A	ACRE	1.25	0.75	0.5
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	113	68	45
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	113	68	45
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	113	68	45
25100115	MULCH, METHOD 2	ACRE	1.25	0.75	0.5
28000400	PERIMETER EROSION BARRIER	FOOT	364	364	
28000500	INLET AND PIPE PROTECTION	EACH	2	1	1
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	950	637.5	312.5
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	5	3	2
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	5	3	2
66400305	CHAIN LINK FENCE, 6'	Foot	36	36	
67100100	MOBILIZATION	L SUM	1	0.5	0.5
66400905	CHAIN LINK GATES, 4' X 6' SINGLE	EACH	1	1	
70100205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	EACH	2	1	1
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1		1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	60	30	30

14

* SPECIALTY ITEM

EFK Moen, LLC
Civil Engineering Design

FILE NAME : V:\14018 1007 09 ITS\DDM\Design\Prelim\091401810070910478337-883-806-900.dgn	USER NAME : jr	DESIGNED - JRD/RAC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE : 2.0000 "/>										

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				JEFFERSON TRAFFIC SIGNS	WILLIAMSON TRAFFIC SIGNS
				0021 RURAL	0021 RURAL
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	0.5	0.5
72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	520	520	
73300300	OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-A (5'-0" X 7'-0")	FOOT	171	74	97
73301810	OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	FOOT	13	6	7
73400100	CONCRETE FOUNDATIONS	CU YD	1.4	1.4	
73400200	DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	45.1	23.9	21.2
7820005	GUARDRAIL REFLECTORS, TYPE A	EACH	20	12	8
72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	5	3	2
80400100	ELECTRIC SERVICE INSTALLATION	EACH	2	1	1
80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	2	1	1
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	490	240	250
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	2000	1500	500
81028390	UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	150	150	
81028730	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1 1/4" DIA.	FOOT	2805	2170	635

14 • SPECIALTY ITEM

EFK Moen, LLC
Civil Engineering Design

FILE NAME : Y:\14810 100T DR ITS\DCN\Design\Pratim\	USER NAME : jr	DESIGNED - JRD/RAG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.I. RATE:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	otsheata\0978337-003-005-500.dgn	DRAWN - JRD	REVISED -					57	D9 ITS SIGNING 2017-1	JEFFERSON/ WILLIAMSON	38	4
	PLOT SCALE = 2,0000' / in.	CHECKED - SLD	REVISED -		SCALE: N.A.	SHEET 2	OF 4	SHEETS	CONTRACT NO. 78337			
	PLOT DATE = 3/16/2015	DATE - 3/13/15	REVISED -		ILLINOIS FED. AID PROJECT							

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				JEFFERSON TRAFFIC SIGNS	WILLIAMSON TRAFFIC SIGNS
				0021 RURAL	0021 RURAL
81300540	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 4"	EACH	2	1	1
81400100	HANDHOLE	EACH	14	8	6
81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	2400	1800	600
81702150	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	900	450	450
81702160	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 1/0	FOOT	1050		1050
81702180	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 3/0	FOOT	3300	3300	
82700100	TRANSFORMER, GENERAL PURPOSE	EACH	2	2	
83062710	LIGHT POLE, WEATHERING STEEL, 35 FT. M.H., TENON MOUNT	EACH	2	1	1
83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	11	5.5	5.5
83800650	BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN	EACH	2	1	1
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	40	25	15
X0323388	TRAFFIC COUNTER	EACH	1	1	
X0324597	CLOSED CIRCUIT TELEVISION CABINET	EACH	2	1	1
X0325485	TRUSS MOUNTED LED DYNAMIC MESSAGE SIGN	EACH	2	1	1

14. • SPECIALTY ITEM

EFK Moen, LLC
Civil Engineering Design

FILE NAME : Y:\14810 100T 09 ITS\CGM\Design\Prall.mxd	USER NAME : jrd	DESIGNED - JRD/RAG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	osheete\0978337-883-886-500.dgn	DRAWN - JRD	REVISED -			57	D9 ITS SIGNING 2017-1	JEFFERSON/ WILLIAMSON	38	5	
	PLOT SCALE = 2.0000 "/ in.	CHECKED - SLD	REVISED -			SCALE: N.A. SHEET 3 OF 4 SHEETS					
	PLOT DATE = 3/16/2015	DATE - 3/13/15	REVISED -			ILLINOIS FED. AID PROJECT CONTRACT NO. 78337					

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				JEFFERSON	WILLIAMSON
				TRAFFIC SIGNS	TRAFFIC SIGNS
				0021	0021
				RURAL	RURAL
X0325922	CELLULAR MODEM	EACH	2	1	1
X0327216	CLOSED CIRCUIT TELEVISION CAMERA	EACH	2	1	1
X1400101	NETWORK CONFIGURATION	LSUM	1	0.5	0.5
X1400102	OUTDOOR RATED NETWORK CABLE	FOOT	470	235	235
X1400103	ROAD WEATHER INFORMATION SYSTEM, COMPLETE	LSUM	1	0.5	0.5
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1	0.5	0.5
X7010410	SPEED DISPLAY TRAILER	CAL MO	1	0.5	0.5
X8040305	ELECTRICAL SERVICE CONNECTION	LSUM	1	0.5	0.5
X8570100	DISCONNECT SWITCH	EACH	8	5	3
Z0005216	HOT-MIX ASPHALT STABILIZATION 6" AT STEEL PLATE BEAM GUARD RAIL	SQ YD	448	291	157
Z0058668	GRADING AND SHAPING FORESLOPES	SQ YD	3,217	2,343	874

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EFK Moen, LLC
Civil Engineering Design

FILE NAME : Y:\14018 (007) 09 ITS\DCN\Design\Prelim\Drawings\0978337-003-006-SCU.dgn	USER NAME : JRD	DESIGNED - JRD/RAG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.I.L. RATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE : 2.8000 1" = 100'	CHECKED - SLD	REVISED -	57			09 ITS SIGNING 2017	JEFFERSON	38	6	
PLOT DATE : 3/16/2015	DATE - 3/13/15	REVISED -	SCALE: N.A. SHEET 4 OF 4 SHEETS			WILLIAMSON	CONTRACT NO. 78337			
						ILLINOIS FED. AID PROJECT				

SEEDING							
STATION	STATION	SIDE	SEEDING CLASS 2A (ACRE)	NITROGEN FERTILIZER (POUND)	PHOSPHORUS FERTILIZER (POUND)	POTASSIUM FERTILIZER (POUND)	MULCH METHOD 2 (ACRE)
JEFFERSON CO.							
432+00.00	433+00.00	MEDIAN	0.43	39	39	39	0.43
432+00.00	435+25.00	RT	0.32	29	29	29	0.32
SUBTOTAL (JEFFERSON CO) =			0.75	68	68	68	0.75
WILLIAMSON CO.							
290+00.00	295+00.00	MEDIAN	0.50	45	45	45	0.50
SUBTOTAL (WILLIAMSON CO) =			0.50	45	45	45	0.50
TOTALS =			1.25	113	113	113	1.25

INLET AND PIPE PROTECTION			INLET & PIPE PROTECTION (EACH)
STATION	STATION	SIDE	(EACH)
JEFFERSON CO.			
435+01		MEDIAN	1
SUBTOTAL (JEFFERSON CO) =			1
WILLIAMSON CO.			
294+31		MEDIAN	1
SUBTOTAL (WILLIAMSON CO) =			1
TOTAL =			1

PERIMETER EROSION BARRIER			
STATION	STATION	SIDE	PERIMETER EROSION BARRIER (FOOT)
JEFFERSON CO.			
432+00.00	435+25.00	LT	364
SUBTOTAL (JEFFERSON CO) =			364
TOTAL =			364

GUARDRAIL SCHEDULE									
STATION	STATION	SIDE	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS (FOOT)	TRAFFIC BARRIER TYPE A (EACH)	TRAFFIC BARRIER TYPE 1 (SPECIAL) TANGENT (EACH)	TRAFFIC BARRIER TYPE 2 (EACH)	TERMINAL MARKER DIRECT APPLIED (EACH)	HMA STABILIZATION 6" AT STEEL PLATE BEAM GUARDRAIL (SO YD)	
JEFFERSON CO.									
432+44.00	434+93.99	LT	187.5	4	1	1	1	89	
432+85.41	435+72.90	LT	225	4	1	1	1	101	
429+27.07	432+14.57	RT	225	4	1	1	1	101	
SUBTOTAL (JEFFERSON CO) =			637.5	12	3	3	3	291	
WILLIAMSON CO.									
292+59.81	294+72.30	LT	150	4	1	1	1	76	
290+22.75	292+47.74	RT	162.5	4	1	1	1	81	
SUBTOTAL (WILLIAMSON CO) =			312.5	8	2	2	2	157	
TOTALS =			950	20	5	5	5	448	

LIGHT POLE SCHEDULE				
STATION	STATION	OFFSET	LIGHT POLE, WEATHERING STEEL, 35 FT. N.H., TENON MOUNT (EACH)	BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN (EACH)
JEFFERSON CO.				
434+50.00	88.00'	LT.	1	1
SUBTOTAL (JEFFERSON CO) =			5.5	1
WILLIAMSON CO.				
294+50.00	96.00'	LT.	1	1
SUBTOTAL (WILLIAMSON CO) =			5.5	1
TOTALS =			11.0	2

GRADING AND SHAPING FORESLOPES				GRADING AND SHAPING FORESLOPES (SO YD)
STATION	STATION	SIDE	(SO YD)	
JEFFERSON CO.				
432+00.00	435+25.00	LT	1,322	
429+00.00	432+50.00	MEDIAN / RT	473	
432+50.00	436+00.00	MEDIAN / LT	548	
SUBTOTAL (JEFFERSON CO) =			2,343	
WILLIAMSON CO.				
290+00.00	295+00.00	MEDIAN / LT	390	
290+00.00	295+00.00	MEDIAN / RT	484	
SUBTOTAL (WILLIAMSON CO) =			874	
TOTALS =			3,217	

FILE NAME =	USER NAME = jf	DESIGNED =	SJF	REVISED =	-
V:\4818 1007 DR ITS\DRN\Design\Palan\	432+00.00\333-007-schedule.dgn	DRAWN =	SJF	REVISED =	-
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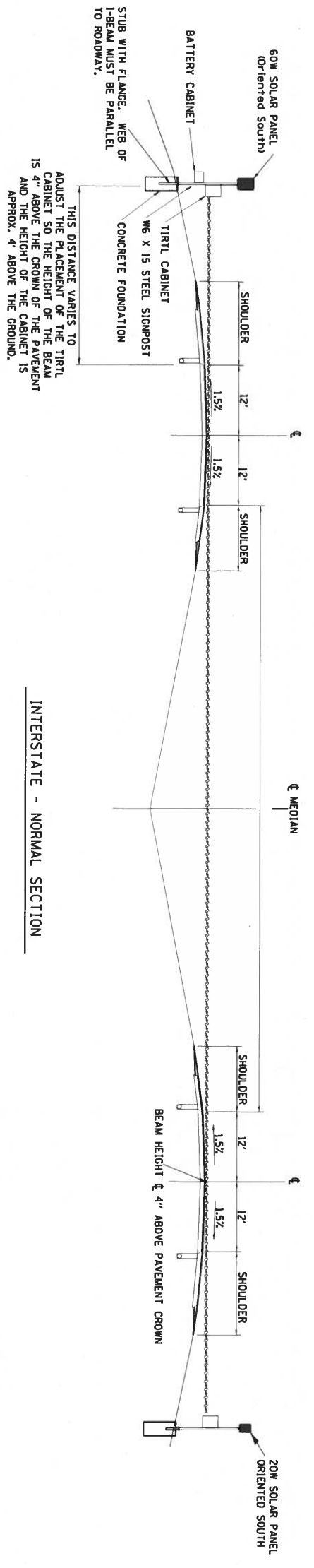
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE: N.A.	SHEET 1	OF 1	SHEETS
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F.A.T. R.T.E.	SECTION	COUNTY	TOTAL SHEET NO.
57	09 ITS SIGNING 2017.1	JEFFERSON/WILLIAMSON	38
		CONTRACT NO.	78337

EFK Moen, LLC
Civil Engineering Design

ILLINOIS FED. AID PROJECT



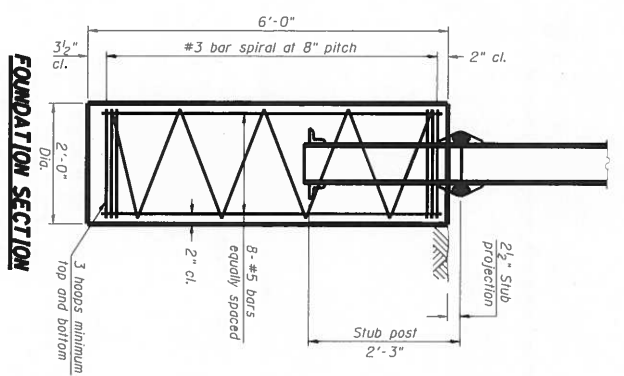
NOTES:

1. SYSTEM CONSISTS OF TWO W6 X 15 I-BEAM SIGNPOSTS WITH CONCRETE FOUNDATION AND A FLANGE WITH BREAKAWAY BOLTS
2. THE I-BEAMS ARE 12' LONG AND DRILLED AS PER THE I-BEAM DETAIL TO ACCOMMODATE A PIPE TO ALLOW THE MOUNTING OF THE SOLAR PANEL.
3. THE WEB OF THE I-BEAM IS TO BE PLACED PARALLEL TO THE LANES.
4. THE TWO POSTS MUST BE PLACED DIRECTLY ACROSS FROM EACH OTHER AND PERPENDICULAR TO THE LANES.
5. TWO POSTS ARE REQUIRED LOCATED AS PER THE DRAWING.
6. THE CABINETS ARE ATTACHED TO THE I-BEAM USING 8" GALVANIZED J-BOLTS.
7. THE BOTTOM OF THE CABINET HEIGHT MUST BE NO LOWER THAN 4' ABOVE THE GROUND AND BE ABLE TO VIEW ACROSS ALL LANES AT THE CROWN OF THE PAVEMENT.
8. THE IDOT OFFICE OF PLANNING AND PROGRAMMING DATA MANAGEMENT LAB (RAMON TAYLOR or RICH MARK 217-782-2065) SHALL BE NOTIFIED TWO WEEKS PRIOR TO THE LAYOUT AND SHALL BE PRESENT DURING THE PLACEMENT OF THE POST FOUNDATIONS.

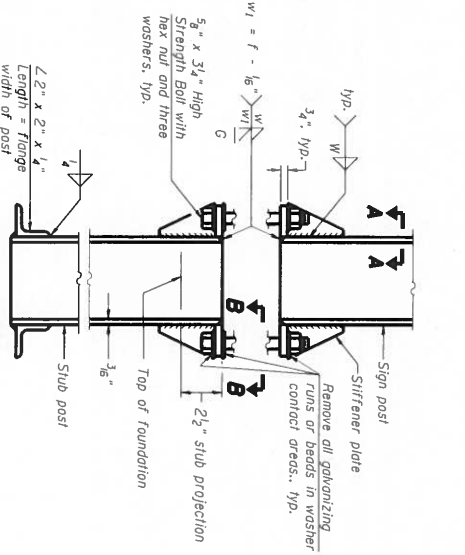
TIRTL TRAFFIC COUNTER SCHEDULE OF QUANTITIES (FOR INFORMATION ONLY)

CODE NUMBER	ITEM	UNIT	QUANTITY
72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	520
73400100	CONCRETE FOUNDATIONS	CU YD	1.4
X0323388	TRAFFIC COUNTER SYSTEM	EACH	1
TIRTL TRAFFIC DATA COLLECTION SYSTEM INCLUDES:			
	Starto wireless LS300 EVD0 Rev. A VZW	EACH	1
	PHANTOM DUAL BAND ANTENNA P/N RF-ART183055P/281	EACH	1
	TIRTL CABINET 15" X 27" X 16"	EACH	2
	BATTERY CABINET 16.5" X 16" X 11.5" BBAIM w/ #2 Police Lock	EACH	1
	SOLAR PANEL 60 W 12 VDC	EACH	1
	SOLAR PANEL 20 W 12 VDC	EACH	1
	SOLAR CHARGE REGULATOR 6 AMP 12 VDC	EACH	2
	BATTERY - 33 AH ABSORBED ELECTROLYTE 8" X 5.5" X 7" (DEEP CYCLE)	EACH	1
	BATTERY - 80 AH ABSORBED ELECTROLYTE 10" X 6" X 8" (DEEP CYCLE)	EACH	1

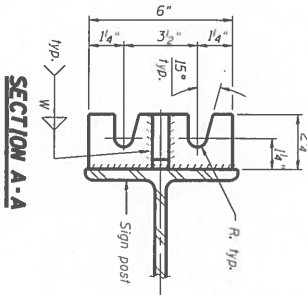
LOCATION: THE FIRST CROSS-OVER NORTH OF MILE POST 86



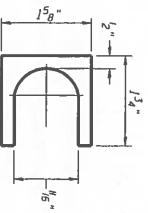
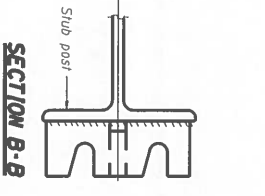
ELEVATION SIGN POST & STUB POST



SECTION A-A



SECTION B-B

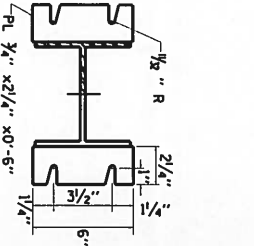
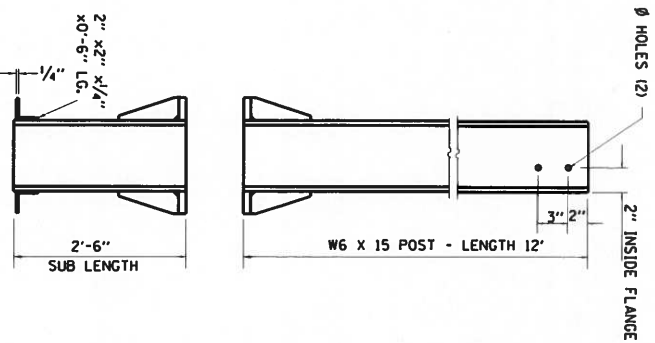


SHIM DETAIL
Furnish two 0.01" thick and two 0.03" thick stainless steel or brass (ASTM B36) shims per post.

GENERAL NOTES

Posts shall be plumbed by using shims with post-to-stub post connection bolts snug tight only. Final tightening of all High Strength Bolts shall be in accordance with Article 727.05 and threads at the junction of the bolt and nut shall be burred or center punched to prevent the nut from loosening.
LOADING: 80 m.p.h. wind with 30% gust factor, normal to sign.
DESIGN STRESSES:
Structural steel - 20,000 p.s.i.
Reinforcing steel - 20,000 p.s.i.
Concrete - 1,400 p.s.i.
Footing soil pressure - 2,000 p.s.f.

After fabrication, the post and upper 6" min. of the stub post shall be hot-dip galvanized in accordance with AASHTO M11. All bolts, nuts and washers shall be hot-dip galvanized in accordance with AASHTO M232.



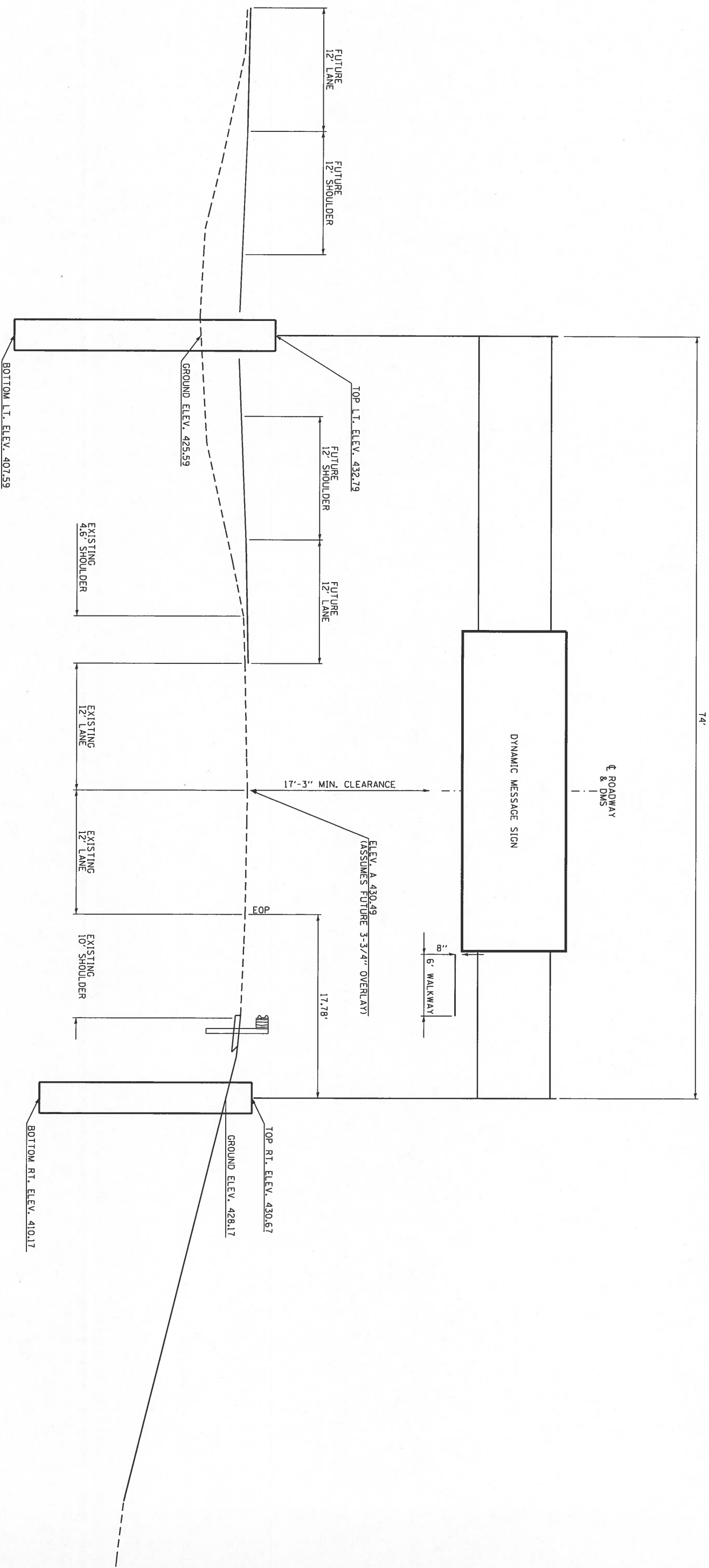
BREAK-AWAY WIDE FLANGE STEEL POST DETAILS

FILE NAME: p:\11\08\REDINTG\Callings\p\11001\Documents\DOT Offices\Structure\Projects\7837-steel-detail.dwg
 USER NAME: s.stancu
 DESIGNED: 3/13/15
 CHECKED: 10/20/16
 REVISIONS:
 1. 10/20/16
 2. 3/13/15
 3. 10/20/16

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TIRTL TRAFFIC COUNTER
 SHEET 1 OF 1 SHEETS

JEFFERSON AND WILLIAMSON
 SECTION: COUNTY: TOTAL SHEET NO.:
 09 115 SIGNING 2017-1 36 8
 ILLINOIS FED. AID PROJECT CONTRACT NO. 78337



DMS MOUNTING DETAIL
432 + 50 (SB I-57)
STR. NO. 9S0411057L088.6

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FILE NAME :	USER NAME :	DESIGNED :	REVISID :
V:\14010 1001 09 ITS\DM\Design\Prelim\pennaca\0978337-009-r-usstee-1eff.dgn	Jd	JRD	-
DESIGNED :	DRAWN :	CHECKED :	DATE :
-	JRD	SJD	3/13/15
PLLOT SCALE = 1/8" = 1'-0"	PLLOT DATE = 3/16/2015	REVISID :	REVISID :
		-	-

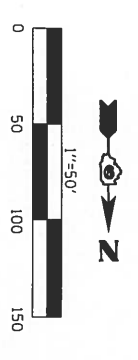
SCALE: N.T.S.	SHEET 1	OF 4	SHEETS
DMS MOUNTING DETAILS			
L-57 (SOUTHBOUND) - STA. 432 + 50 - MM 88.63			
F.A.I. RITE:	SECTION	COUNTY	TOTAL SHEET NO.
57	09 ITS SIGNING 2017-1	JEFFERSON	38
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78337

EFK Moen, LLC
 Civil Engineering Design

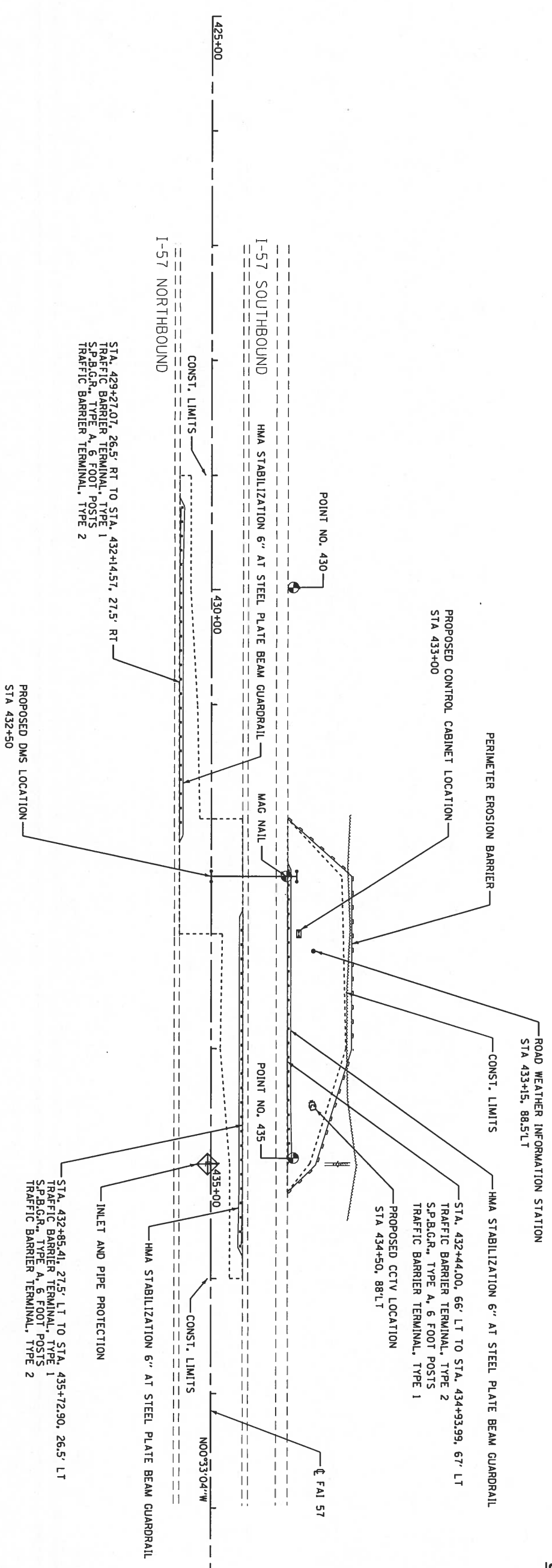
OVERHEAD SIGN STRUCTURE

1-57 SB - MM 88.63

STRUCTURE NO.
9S041057L088.6



SITE PLAN



COORDINATE TABLE						
JEFFERSON COUNTY						
FIELD BOOK # 3057, PGS. 32-33, NAD 83 (97cd), NAVD 88						
POINT NO.	NORTHING	EASTING	ELEV.	STATION	OFFSET	
435	573123.961	819676.264	428.375'	434+95.36	71.23' LT	
430	572626.611	819681.508	428.244'	429+97.99	70.77' LT	
MAG NAIL	572878.668	819684.856	429.661'	432+50.00	65.00' LT	

FILE NAME =	USER NAME =	DESIGNED -	REVISIONS
V:\14810 I001 09 ITS\DDM\Design\Prelim\Structure\0979337-010-Plan-Left.dgn	JRD	MSK	
PLLOT SCALE = 1/800.0000 / in.	CHECKED -	SLD	
PLLOT DATE = 3/16/2015	DATE -	3/13/15	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEET
I-57 (SOUTHBOUND) - STA. 432 + 50 - MM 88.63

SCALE: 1"=50'	SHEET 2	OF 4	SHEETS	STA. 425+00	TO STA. 440+00
F.A.I. RITE: 5T	SECTION: 09 ITS SIGNING 2017	COUNTY: JEFFERSON	TOTAL SHEETS: 38	CONTRACT NO.: 78337	ILLINOIS FED. AID PROJECT

EPK Moen, LLC
Civil Engineering Design

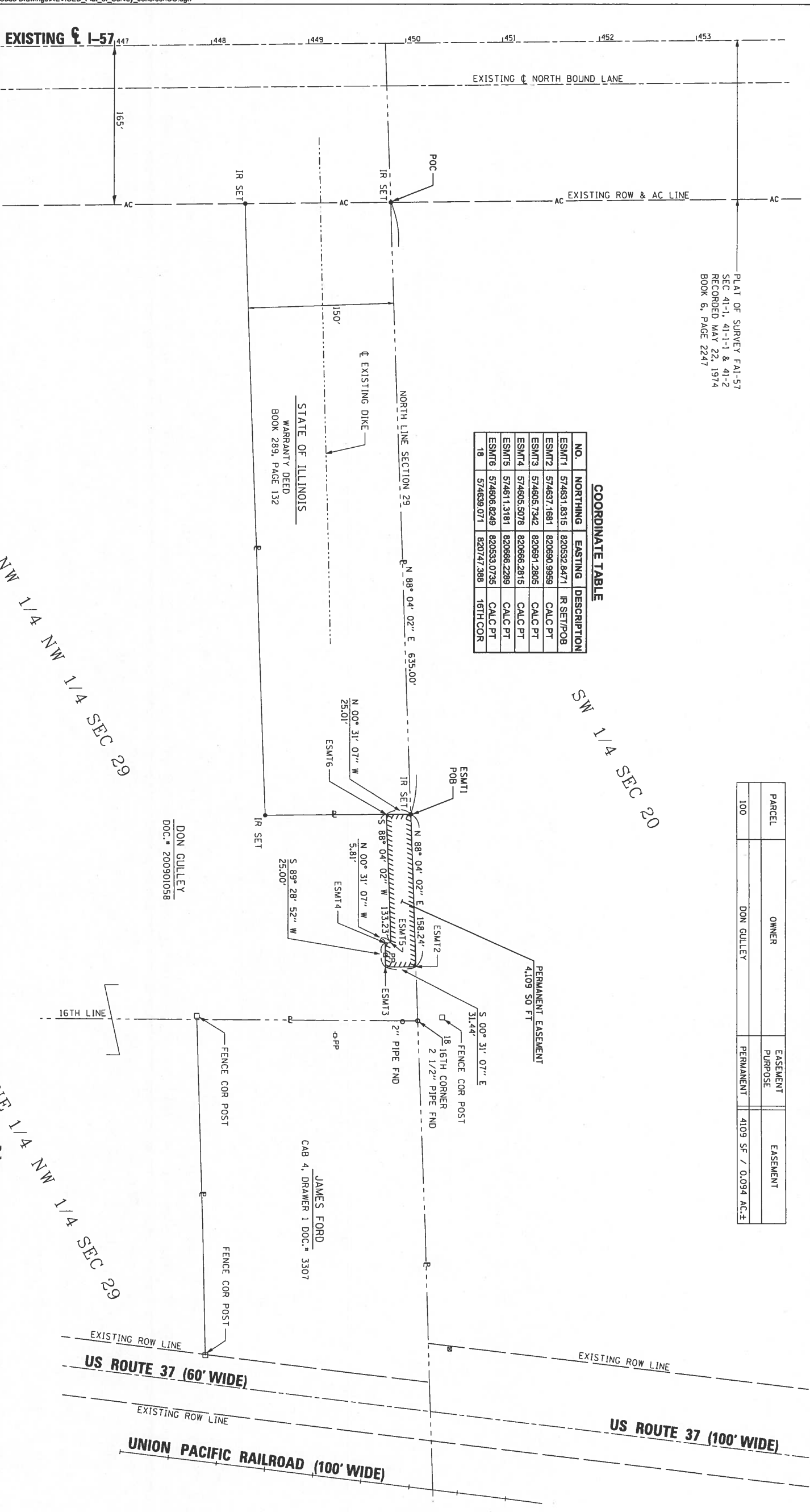
SECTION 29, T. 3 S., R. 3 E., OF THE 3RD P.M., JEFFERSON COUNTY, ILLINOIS

PARCEL	OWNER	EASEMENT PURPOSE	EASEMENT
100	DON GILLEY	PERMANENT	4109 SF / 0.094 AC.±

PLAT OF SURVEY FAI-57
SEC 41-1, 41-1-1 & 41-2
RECORDED MAY 22, 1974
BOOK 6, PAGE 2247

COORDINATE TABLE

NO.	NORTHING	EASTING	DESCRIPTION
ESMT1	574631.8315	820532.8471	IR SET/POB
ESMT2	574637.1881	820890.9959	CALC PT
ESMT3	574605.7342	820691.2805	CALC PT
ESMT4	574605.5078	820866.2815	CALC PT
ESMT5	574611.3181	820666.2289	CALC PT
ESMT6	574606.8249	820533.0735	CALC PT
18	574639.071	820747.388	16TH COR



I, WILLIAM C. BOLLINGER III, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, CERTIFY THAT I HAVE SURVEYED THE SURVEY PLAT SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY IN THE STATE OF ILLINOIS.

DATED 12-12-14

WILLIAM C. BOLLINGER III, PLS NO. 3856
CLARIDA & ZIEGLER ENGINEERING
LICENSE EXPIRATION DATE: 11/30/2016



EXPIRATION/RENEWAL DATE
11/30/2016

FILE NAME	USER NAME	DESIGNED	REVISION
REVISED Plat of Survey JeffersonCO.dgn	WCB	WCB	REVISED
PLAT SCALE = 50.000000 / 1 in.	MBJ	MBJ	REVISED
PLAT DATE = 12/11/2014	WCB	WCB	REVISED
		DATE	DATE
		DEC 2014	DEC 2014

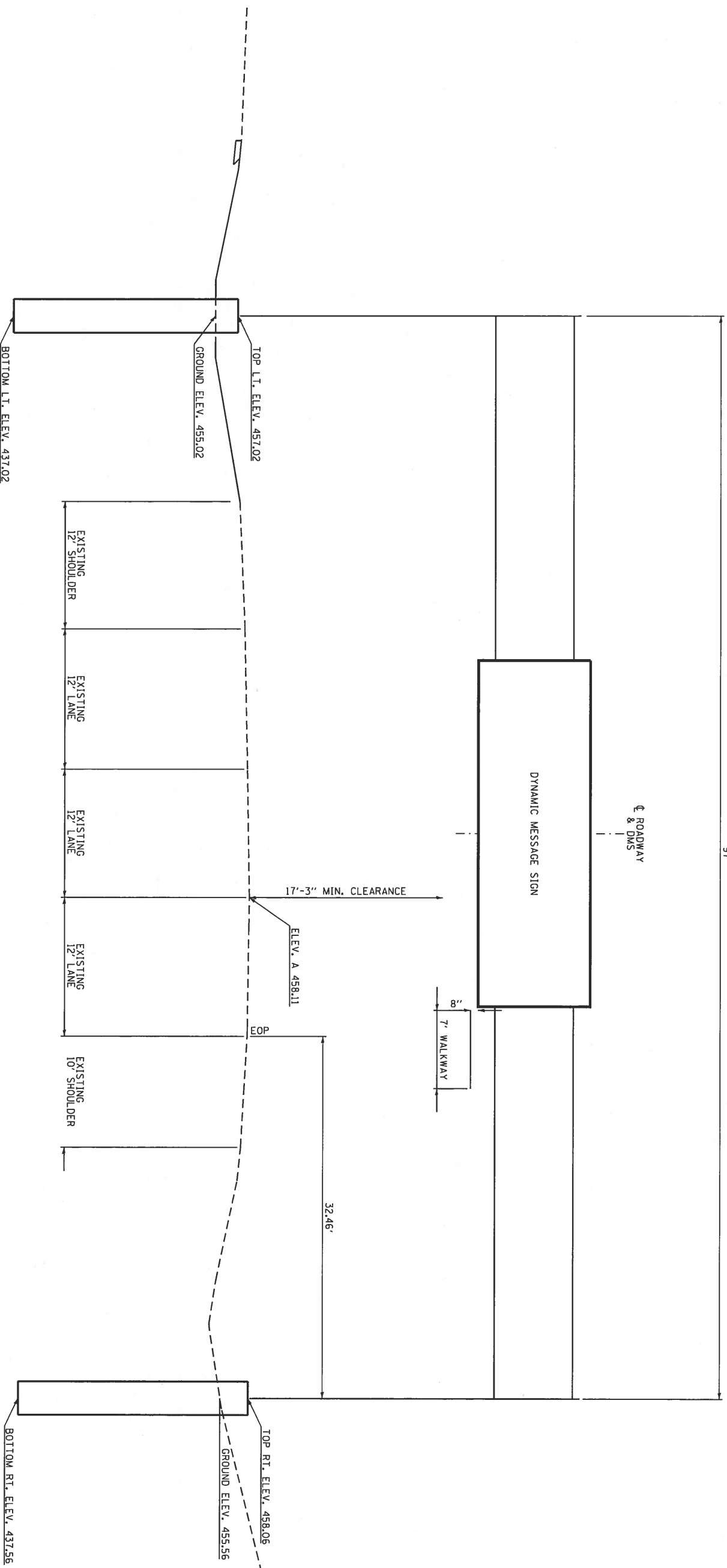
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

SECTION	COUNTY	TOTAL SHEET NO.
RIGHT OF WAY R-99-001-15	JEFFERSON	78337

Illinois Professional Design Firm Lic. No. 184-04615
CLARIDA & ZIEGLER ENGINEERING CO.
410 North Court St., P.O. Box 937
Morton, Illinois 62559
Phone - (618)993-6411, Fax - (618)993-6750

97'



DMS MOUNTING DETAIL
292 + 50 (NB I-57)
STR. NO. 9S1001057R056.6

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FILE NAME :	USER NAME :	DESIGNED :	REVISOR :
Y:\14010 1001 09 ITS.DGN\Design\Palin\p	Jd	JRD	-
o\shene\078337-013-r-usasac-will.dgn	DRAWN :	JRD	REVISOR :
	CHECKED :	SJD	REVISOR :
PLT SCALE = 1/8"=1'-0"	DATE :	3/13/15	REVISOR :
PLT DATE = 3/16/2015			

SCALE: N.T.S.	SHEET 1	OF 4	SHEETS
DMS MOUNTING DETAILS			
1-57 (NORTHBOUND) - STA. 292 + 50 - MM 56.56			

E.A.I. FILE NO.	SECTION	COUNTY	TOTAL SHEETS
57	09 ITS SIGNING 2017-1	WILLIAMSON	38
			13
			CONTRACT NO. 78337

EFK Moen, LLC
 Civil Engineering Design

ILLINOIS FED. AID PROJECT

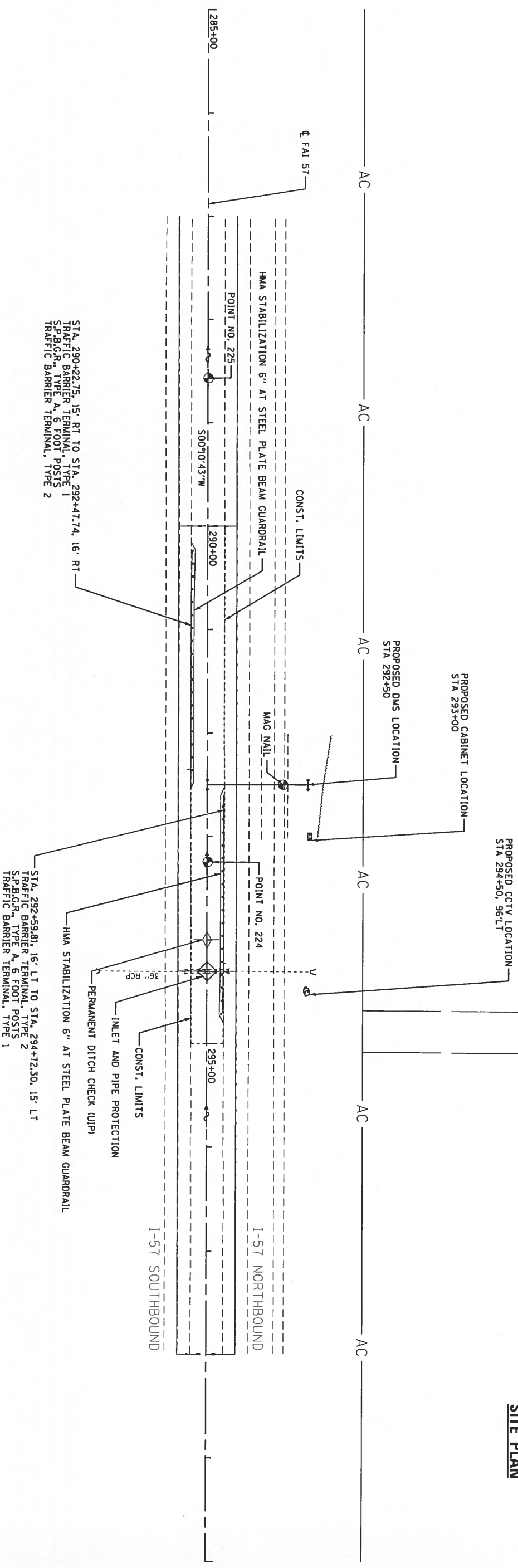
OVERHEAD SIGN STRUCTURE

1-57 NB - MM 56.56

STRUCTURE NO.
9S1001057R056.6



SITE PLAN



STA. 290+22.75, 15' RT TO STA. 292+47.74, 16' RT
TRAFFIC BARRIER TERMINAL, TYPE 1
S.P.B.G.R., TYPE A, 6 FOOT POSTS
TRAFFIC BARRIER TERMINAL, TYPE 2

STA. 292+59.81, 16' LT TO STA. 294+12.30, 15' LT
TRAFFIC BARRIER TERMINAL, TYPE 2
S.P.B.G.R., TYPE A, 6 FOOT POSTS
TRAFFIC BARRIER TERMINAL, TYPE 1

COORDINATE TABLE					
WILLIAMSON COUNTY					
FIELD BOOK #2694, PGS. 65-68, NAD 83 (860d1), NGVD 29					
POINT NO.	NORTHING	EASTING	ELEV.	STATION	OFFSET
224	406559.980	807246.003	455.375'	293+24.66	0.67' LT.
225	407027.809	807247.361	453.172'	288+56.83	0.57' LT.
MAG NAIL	406634.416	807318.563	457.461'	292+50.00	73.00' LT.

FILE NAME =	USER NAME =	DESIGNED =	REVISOR =
Y:\14800\1007\09\ITS\CONV\Design\Prelim\1\01\shabeea\0978337-01-4-plan-will.dgn	JLD	JRD	
PLT SCALE = 1/8"=1'-0"	DRAWN =	CHECKED =	REVISOR =
	MSK	SLD	
PLT DATE = 3/16/2015	DATE =	3/13/15	REVISOR =

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

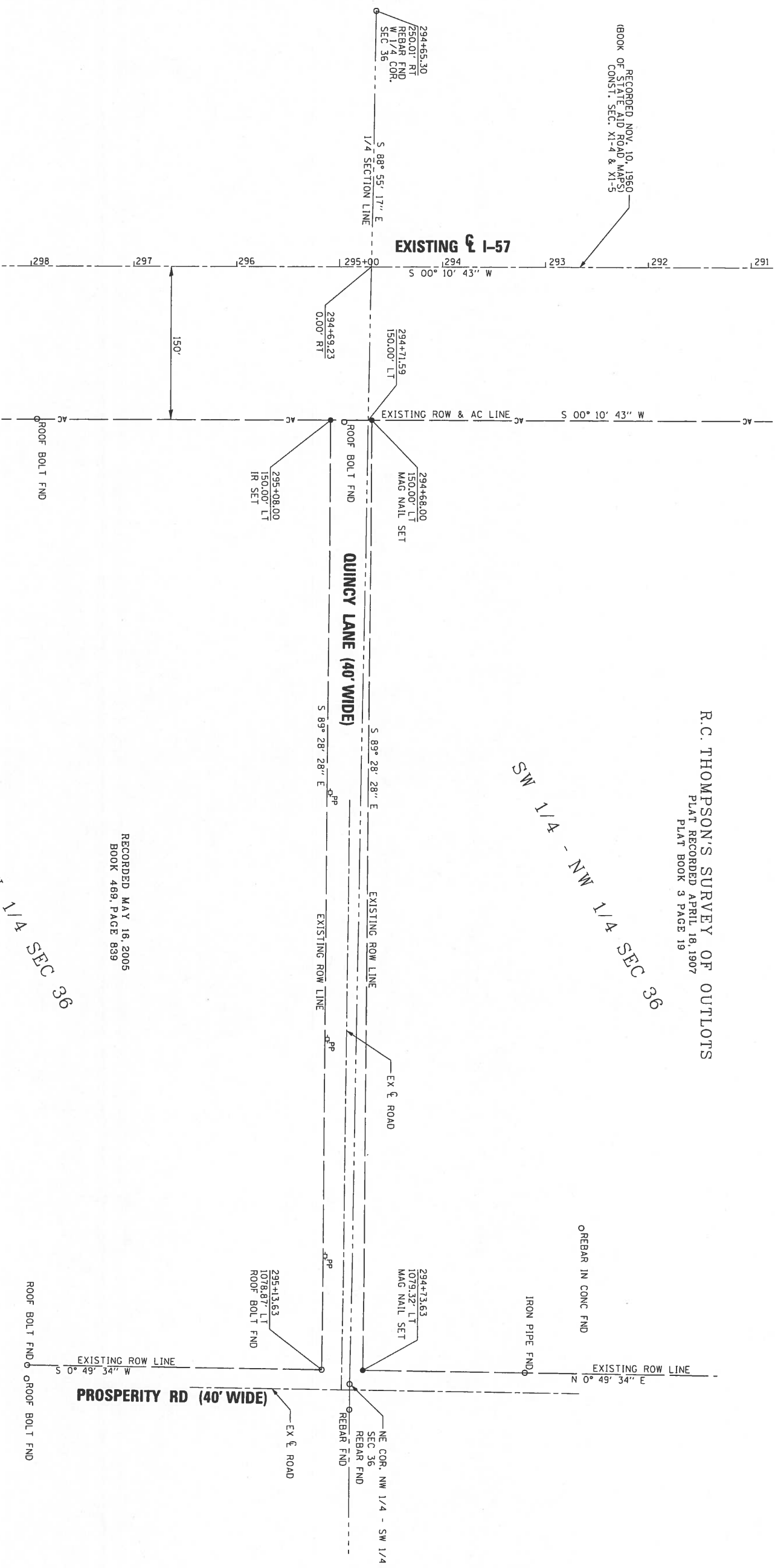
PLAN SHEET
1-57 (NORTHBOUND) - STA. 292+50 - MM 56.56

SCALE: 1"=50'	SHEET 2	OF 4	SHEETS	STA. 285+00	TO STA. 300+00
E.A.L.	SECTION	COUNTY	TOTAL SHEET		
57	09 ITS SIGNING 2017-1	WILLIAMSON	38		
			14		
			CONTRACT NO. 78337		

EFK Moen, LLC
Civil Engineering Design

SECTION 36, T. 8 S., R. 2 E., OF THE 3RD P.M., WILLIAMSON COUNTY, ILLINOIS

R.C. THOMPSON'S SURVEY OF OUTLOTS
 PLAT RECORDED APRIL 18, 1907
 PLAT BOOK 3 PAGE 19



RECORDED MAY 16, 2005
 BOOK 489, PAGE 839

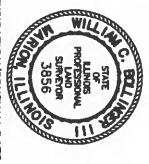
NW 1/4 - SW 1/4 SEC 36

STATE OF ILLINOIS)
 COUNTY OF WILLIAMSON) SS

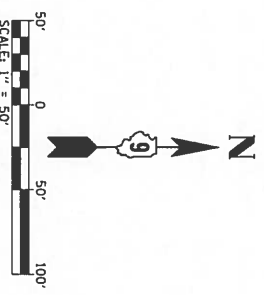
I, WILLIAM C. BOLLINGER III, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, CERTIFY THAT I HAVE SUPERVISED THE SURVEY PLAT SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY IN THE STATE OF ILLINOIS.

DATED 12-12-14

WILLIAM C. BOLLINGER III, P.L.S. NO. 3856 - CLARIDA & ZIEGLER ENGINEERING
 LICENSE EXPIRATION DATE: 11/30/2016



EXPIRATION/RENEWAL DATE
 11/30/2016



Illinois Professional Engineer Form No. 184-040515

CLARIDA & ZIEGLER ENGINEERING CO.
 410 North Court St. P.O. Box 937
 Phone - (618)993-6411, Fax - (618)993-6750

FILE NAME: P:\13-1021.13-WO13 CZ Engineering\10_Cad\Cadd Drawings\REVISED_Plat_of_Survey_WilliamsonCO.dgn	USER NAME: 1007CAD	DESIGNED: WCB	REVISION:	STATE OF ILLINOIS
REVISION: P:\13-1021.13-WO13 CZ Engineering\10_Cad\Cadd Drawings\REVISED_Plat_of_Survey_WilliamsonCO.dgn	DESIGNED: WCB	REVISION: WCB	REVISION: WCB	DEPARTMENT OF TRANSPORTATION
REVISION: PLOT SCALE = 50x8000 / 1" = 50'	DESIGNED: WCB	REVISION: WCB	REVISION: WCB	RIGHT OF WAY
REVISION: PLOT DATE = 12/11/2014	DESIGNED: WCB	REVISION: WCB	REVISION: WCB	R-99-001-15
REVISION: DATE = DEC 2014	DESIGNED: WCB	REVISION: WCB	REVISION: WCB	SHEET 2 OF 2 SHEETS STA. TO STA.
REVISION: DATE = DEC 2014	DESIGNED: WCB	REVISION: WCB	REVISION: WCB	SECTION
REVISION: DATE = DEC 2014	DESIGNED: WCB	REVISION: WCB	REVISION: WCB	COUNTY
REVISION: DATE = DEC 2014	DESIGNED: WCB	REVISION: WCB	REVISION: WCB	TOTAL SHEET
REVISION: DATE = DEC 2014	DESIGNED: WCB	REVISION: WCB	REVISION: WCB	SHEETS
REVISION: DATE = DEC 2014	DESIGNED: WCB	REVISION: WCB	REVISION: WCB	NO.
REVISION: DATE = DEC 2014	DESIGNED: WCB	REVISION: WCB	REVISION: WCB	CONTRACT NO. 78337
REVISION: DATE = DEC 2014	DESIGNED: WCB	REVISION: WCB	REVISION: WCB	ILLINOIS FED. AID PROJECT

FILE NAME :
ITS WILL County Planndgn

USER NAME : jbr-dam
PLOT SCALE : 88.8895 ft / in.
PLOT DATE : 3/16/2015

DESIGNED RAG
DRAWN DTL
CHECKED KLG
DATE 03-16-15

REVISED -
REVISED -
REVISED -
REVISED -

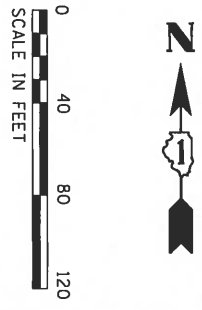
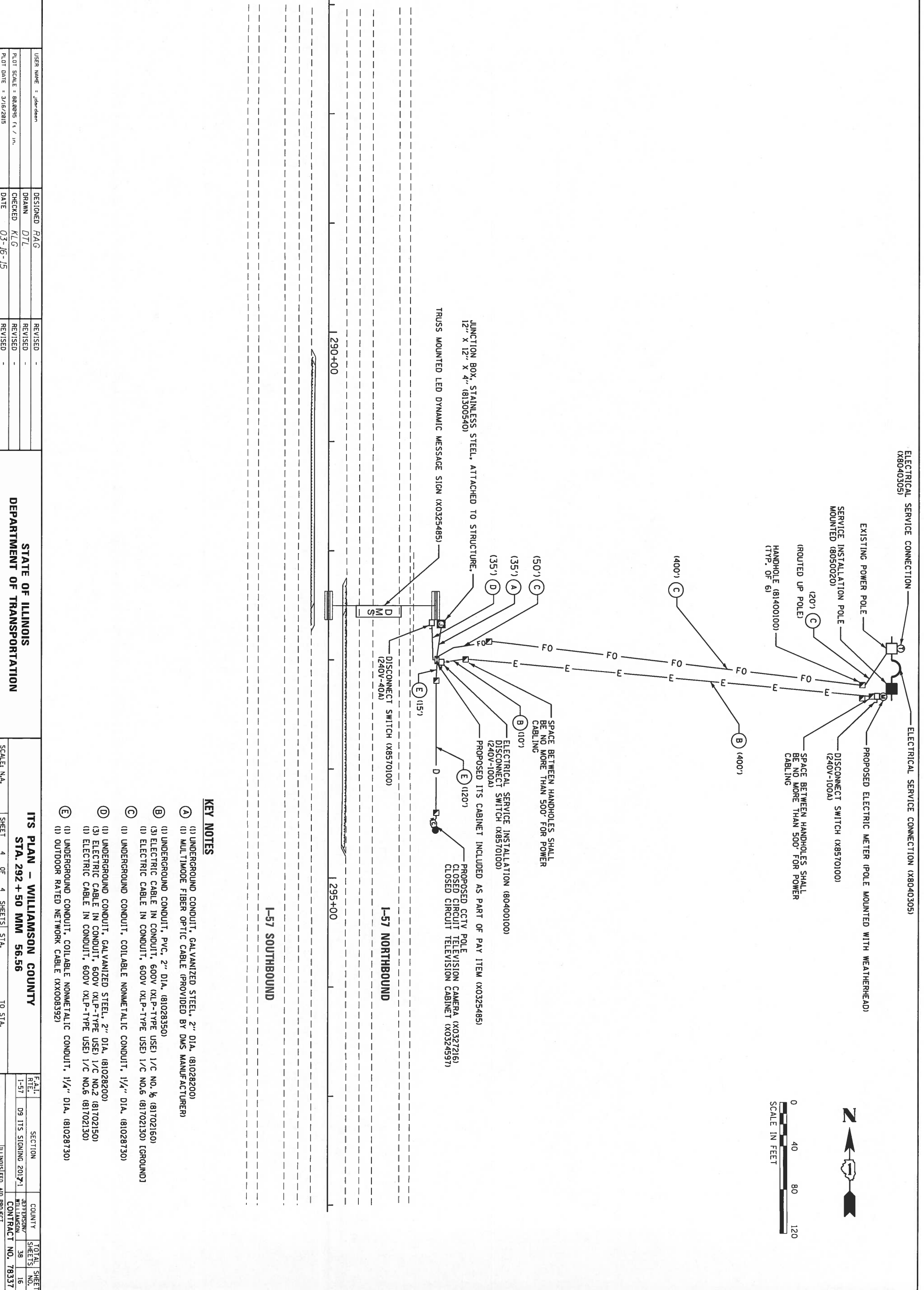
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE N.A.

SHEET 4 OF 4 SHEETS STA. TO STA.

ITS PLAN - WILLIAMSON COUNTY
STA. 292 + 50 MM 56.56

F.A.T. SECTION COUNTY TOTAL SHEET
RTE. 1-57 09 ITS SIGNING 2017J WILLIAMSON JEFFERSON
SHEETS 38
CONTRACT NO. 78337 ILLINOIS FED. AID PROJECT



KEY NOTES

- (A) (1) UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. (81028200)
- (1) MULTIMODE FIBER OPTIC CABLE (PROVIDED BY DMS MANUFACTURER)
- (B) (1) UNDERGROUND CONDUIT, PVC, 2" DIA. (81028350)
- (3) ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6 (81702160)
- (1) ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO.6 (81702130) [GROUND]
- (C) (1) UNDERGROUND CONDUIT, COLLABLE NONMETALLIC CONDUIT, 1/4" DIA. (81028730)
- (1) UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. (81028200)
- (3) ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO.2 (81702150)
- (1) ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO.6 (81702130)
- (E) (1) UNDERGROUND CONDUIT, COLLABLE NONMETALLIC CONDUIT, 1/4" DIA. (81028730)
- (1) OUTDOOR RATED NETWORK CABLE (XXX08392)

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
 $f_y = 3,500$ p.s.i.
 $f_y = 60,000$ p.s.i. (reinforcement)

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

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handle 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 of the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members Interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2) of the IDOT Standard Specifications for Road and Bridge Construction. Retentional capacity ("RCCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

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

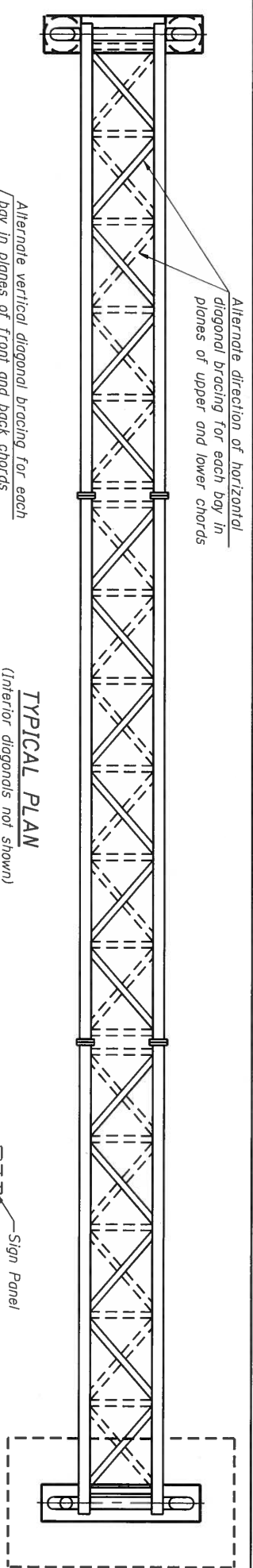
CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line of each foundation shall be cleaned and coated with Concrete Sader in accordance with the Standard Specifications.

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

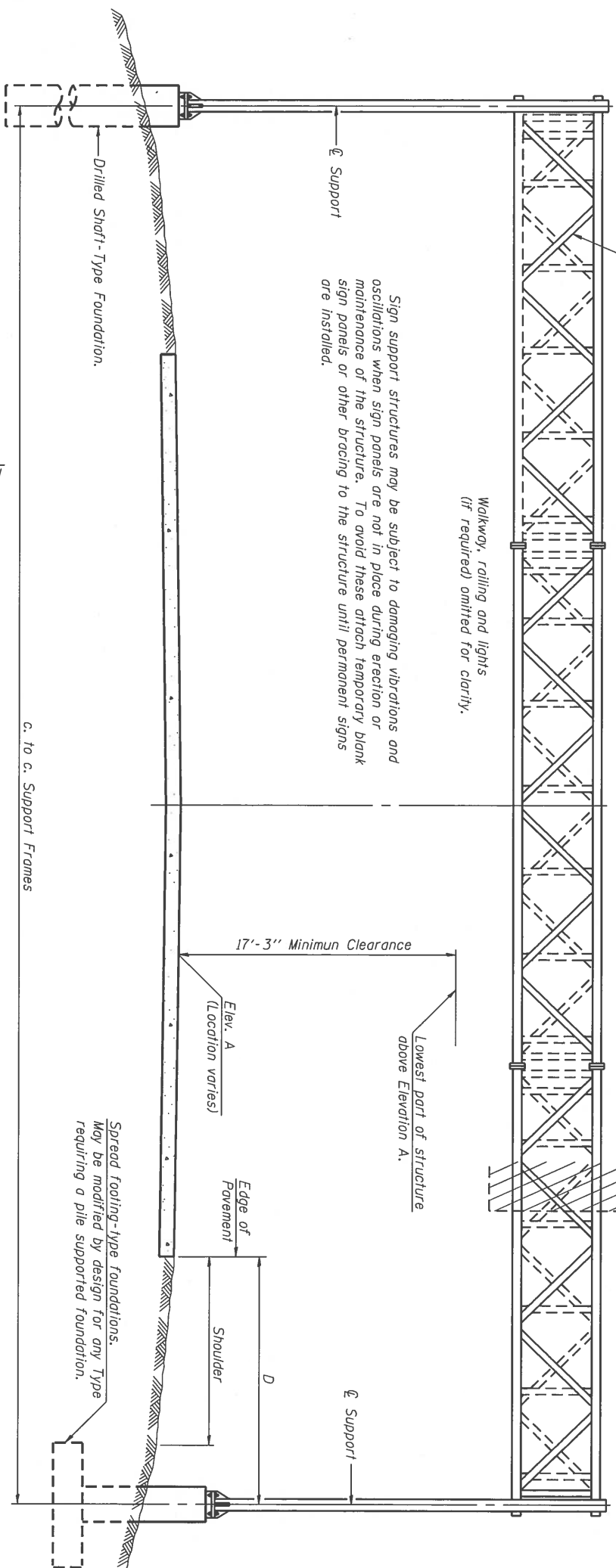
FOUNDATIONS: The contract unit price for Concrete Foundations and Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE SPAN TYPE I-A	Foot	-
OVERHEAD SIGN STRUCTURE SPAN TYPE II-A	Foot	-
OVERHEAD SIGN STRUCTURE SPAN TYPE III-A	Foot	171
OVERHEAD SIGN STRUCTURE WALKWAY TYPE A	Foot	13
CONCRETE FOUNDATIONS	Cu. Yds.	-
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	45.1



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 attach temporary blank sign panels or other bracing to the structure until permanent signs are installed.

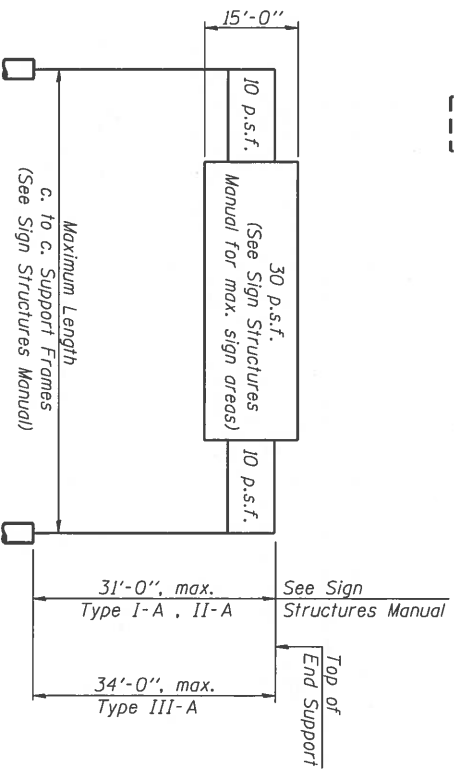


TYPICAL ELEVATION
(Looking at Face of Signs*)

Structure Number	Station	Design Truss Type	c. to c. Supports	Elev. A (See NOTE below)	Dim. D	Height of Tallest Sign	Total Sign Area
950411057L088.6	432+50	III-A	74'	430.49	17.78'	OF DMS	OF DMS
951001057R056.6	292+50	III-A	97'	458.11	32.46'	OF DMS	OF DMS

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.

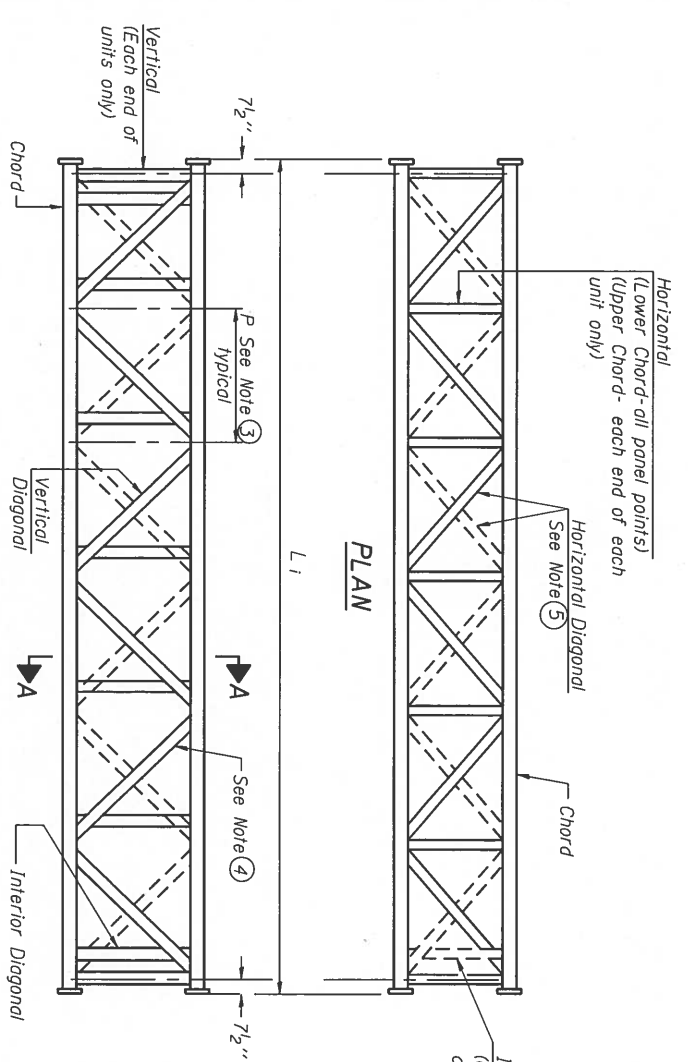
DESIGN WIND LOADING DIAGRAM



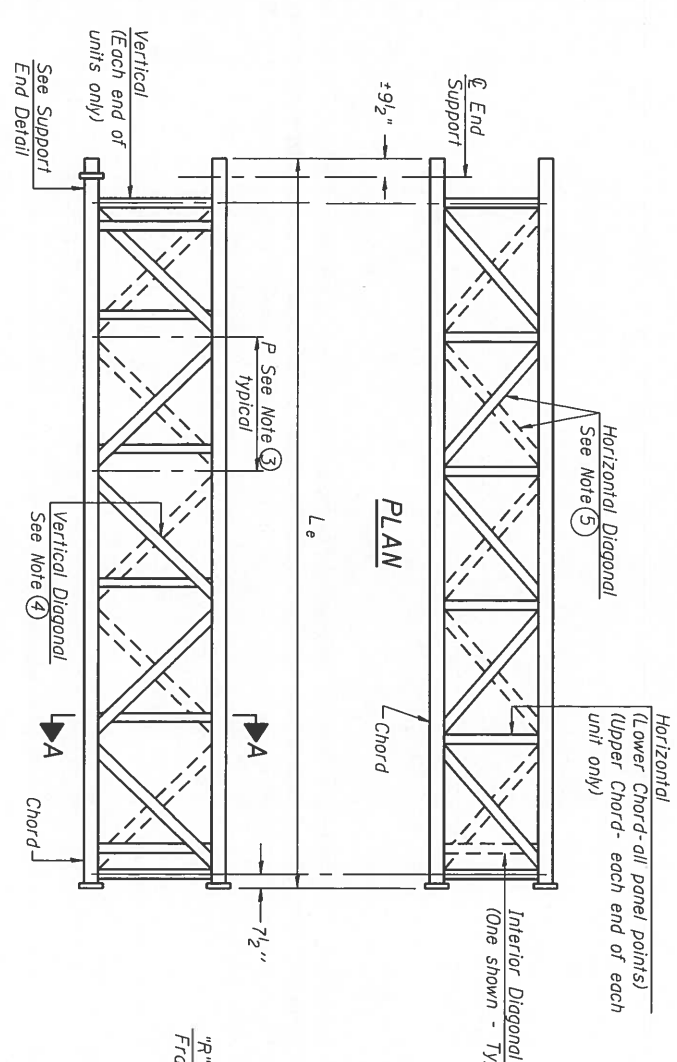
FILE NAME: V:\14810 IDOT 09 ITS\IDOT\Design\Palin\09shree\09B337-017-026-sign-struct.dgn	USER NAME: jrd	DESIGNED: JRD	REVISIONS:
PLOT SCALE: 1/8"=1'-0"	PLOT DATE: 3/16/2015	CHECKED: SLD	REVISIONS:
DATE: 3/13/15			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

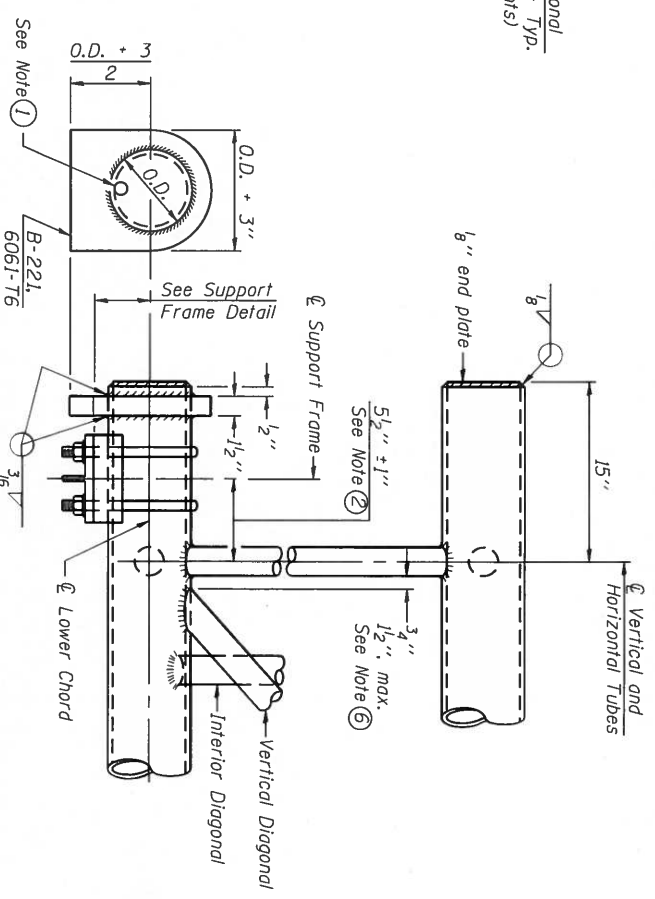
OVERHEAD SIGN STRUCTURES - GENERAL PLAN & ELEVATION - ALUMINUM TRUSS & STEEL SUPPORTS
 SHEET 1 OF 10 SHEETS STA. TO STA.
 ERFK Moen, LLC
 Civil Engineering Design
 CONTRACT NO. 78337



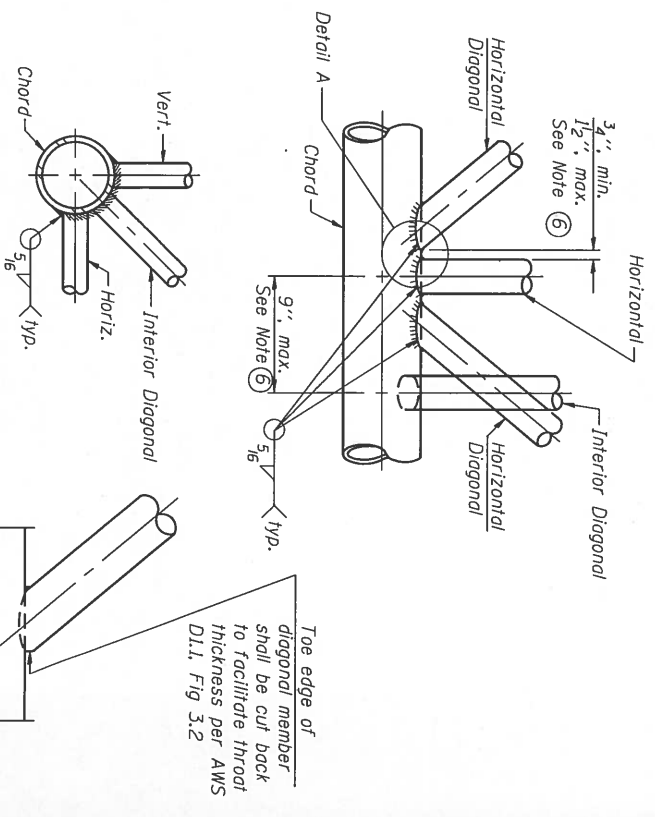
ELEVATION
TYPICAL INTERIOR UNIT
Even number of panels/interior unit required.



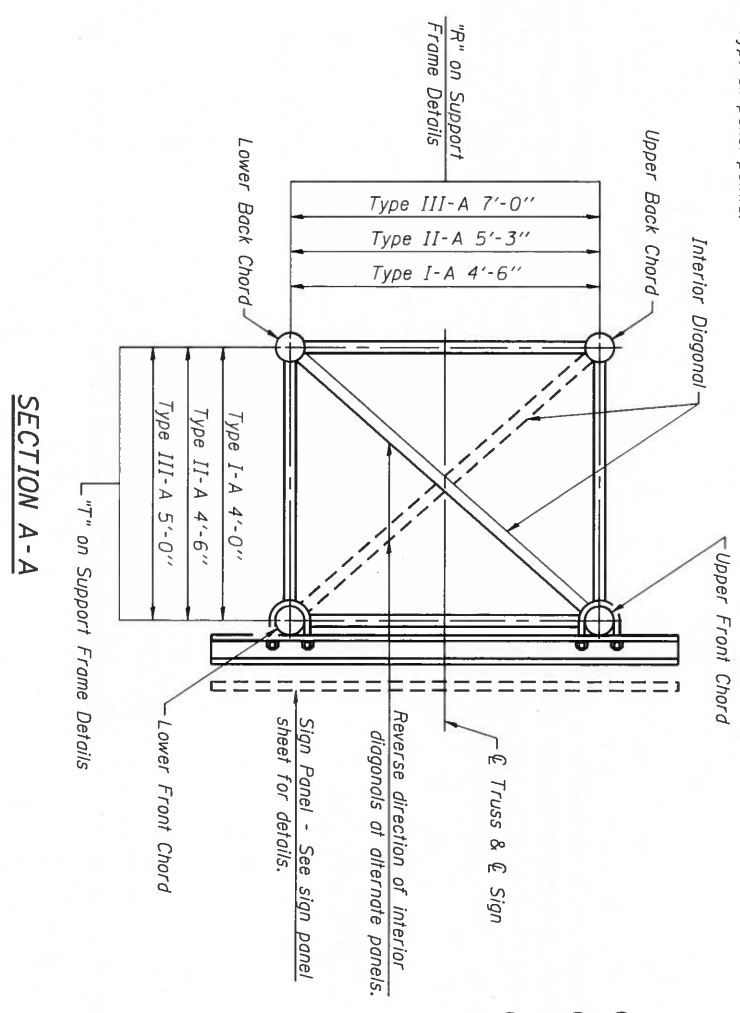
ELEVATION
TYPICAL EXTERIOR UNIT
Even or odd number of panels/exterior units allowed.



SUPPORT END DETAIL FOR EXTERIOR UNIT



TYPICAL JOINT DETAILS



SECTION A-A

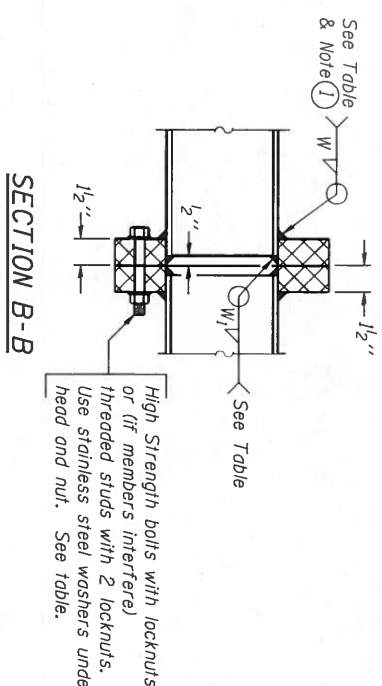
- ① Contractor may alternatively use standard aluminum drive-fit cap to close end. 3/8" ϕ drain hole in end plate/drive-fit cap. (Typ. at ends of all chords)
- ② 5 1/2" end dimension may vary by $\pm 1"$ to provide uniform panel spacing (P).
- ③ Panel spacing (P) shall be uniform for entire truss and between 4'-0" and 5'-0" for Type I-A or 4'-0" and 5'-6" for Types II-A and III-A.
- ④ Vertical Diagonals in front and back face shall alternate.
- ⑤ Hidden lines show wind bracing alternates direction between planes of top and bottom chords.
- ⑥ All diagonals shall be detailed for minimum offset from the panel point based on the following: Offset shall be such as to provide a 3/4" minimum to 1/2" maximum clearance between any diagonal and any horizontal or vertical member, and to provide clearance for U-bolt connections of signs or walkway brackets.

FILE NAME = OS-A-2	6-1-12	DESIGNED - JRD	REVISOR -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS DETAILS FOR TRUSS TYPES I-A, II-A AND III-A	EAT. SECTION COUNTY TOTAL SHEET NO. SHEETS
USER NAME = jrd	DATE = 3/13/15	DRAWN - JRD	REVISOR -	SCALE: N/A	SHEET 2 OF 10 SHEETS STA. TO STA.	57 09 115 SIGNING 2019-1 38 18
PROJECT = 115.000N-Design-Pad-11m-V	DATE = 3/13/15	CHECKED - SLD	REVISOR -			JEFFERSON WILLIAMSON CONTRACT NO. 78337
PLANT SCALE = 1/8" = 1'-0"						ILLINOIS FED. AID PROJECT

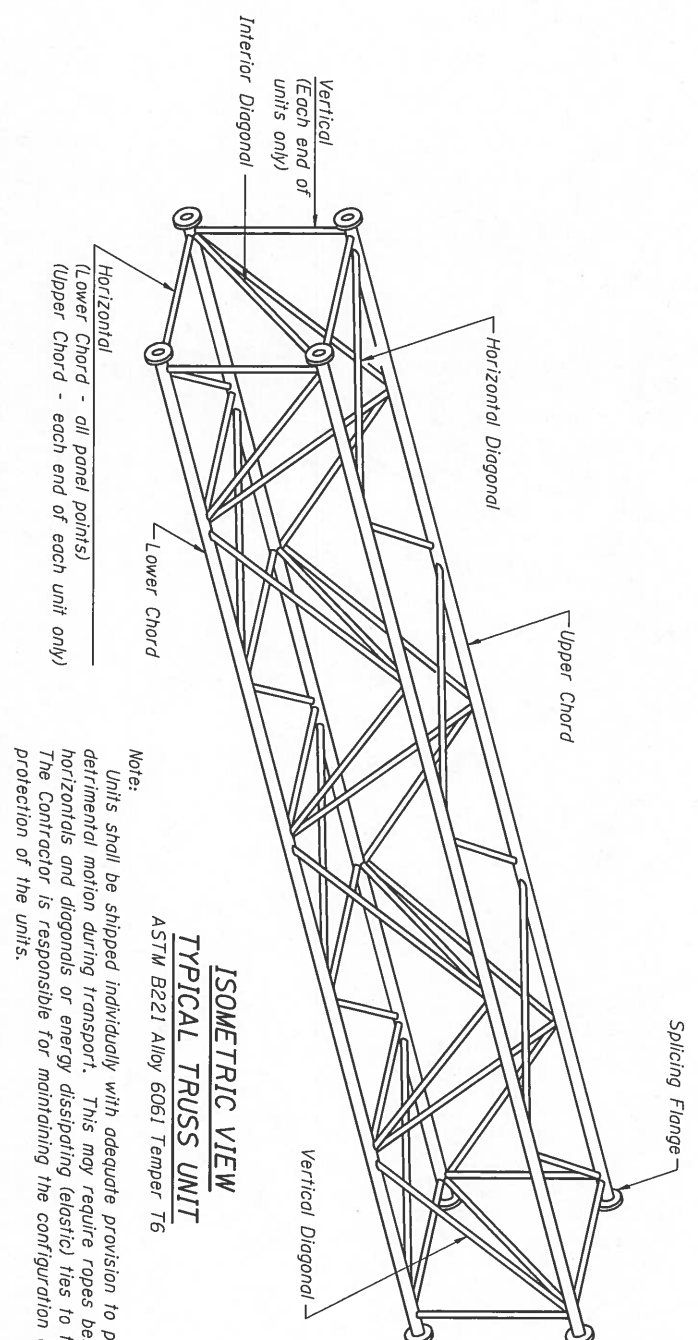
EKK Moen, LLC
Civil Engineering Design

TRUSS UNIT TABLE

Structure Number	Station	Design Truss Type	Exterior Units (2)		Interior Unit		Upper & Lower Chord		Verticals, Horizontals, Vertical, Horizontal, and Interior Diagonals O.D.	Camber of Midspan	Splicing Flange						
			No. Panels Per Unit	Unit Lgth.(L ₁)	Panel Lgth.(P)	No. Req'd.	No. Panels Per Unit	Unit Lgth.(L ₁)			Panel Lgth.(P)	O.D.	Wall	No./Splice	Boils Dia.	Weld W	Weld WI
9S0411057L088.6	432+50	III-A	7	37'-9"	5'-1 1/2"	0	-	7"	5/16"	3/4"	1"	6	1"	7/16"	5/16"	1 1/2"	15"
9S1001057R056.6	292+50	III-A	6	33'-1 1/2"	5'-2 1/2"	1	6	7"	5/16"	3/4"	2 1/8"	6	1"	7/16"	5/16"	1 1/2"	15"

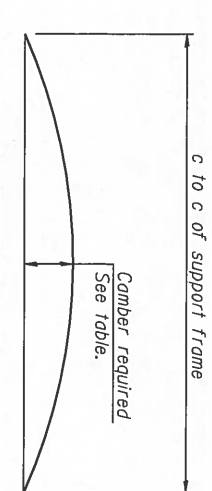


① Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining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

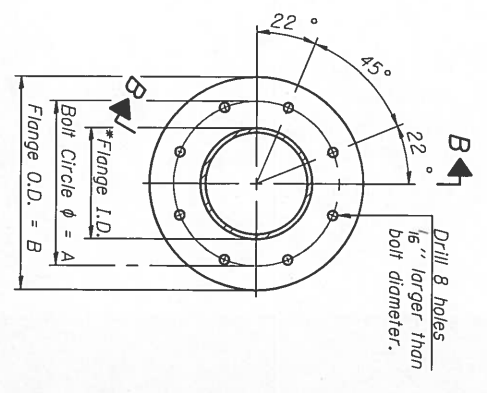
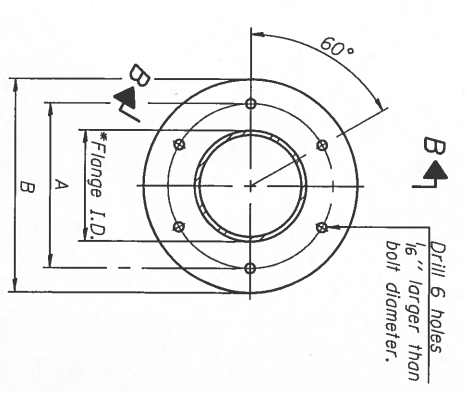
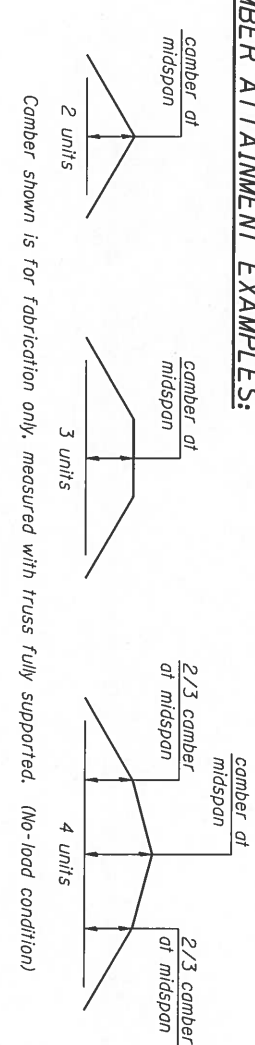


Note: Units shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection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

ASTM B221 Alloy 6061 Temper T6



CAMBER ATTAINMENT EXAMPLES:
Camber curve shown is theoretical. Actual camber obtained by slope changes at splices between units.



SPlicing FLANGES
ASTM B221, Alloy 6061-T6
or ASTM B209, Alloy 6061-T651
*To fit O.D. of Chord with maximum gap of 1/8"

OS4-A-2 6-1-12

FILE NAME = USER NAME = Jd DESIGNED - JRB REVISED -

V:\4808 1001 09 115\008\Design\4-11-12\OS4-A-2.dgn DRAWN - JRB REVISED -

PLOT SCALE = 1/8"=1'-0" CHECKED - SLD REVISED -

PLOT DATE = 3/16/2015 DATE - 3/13/15 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

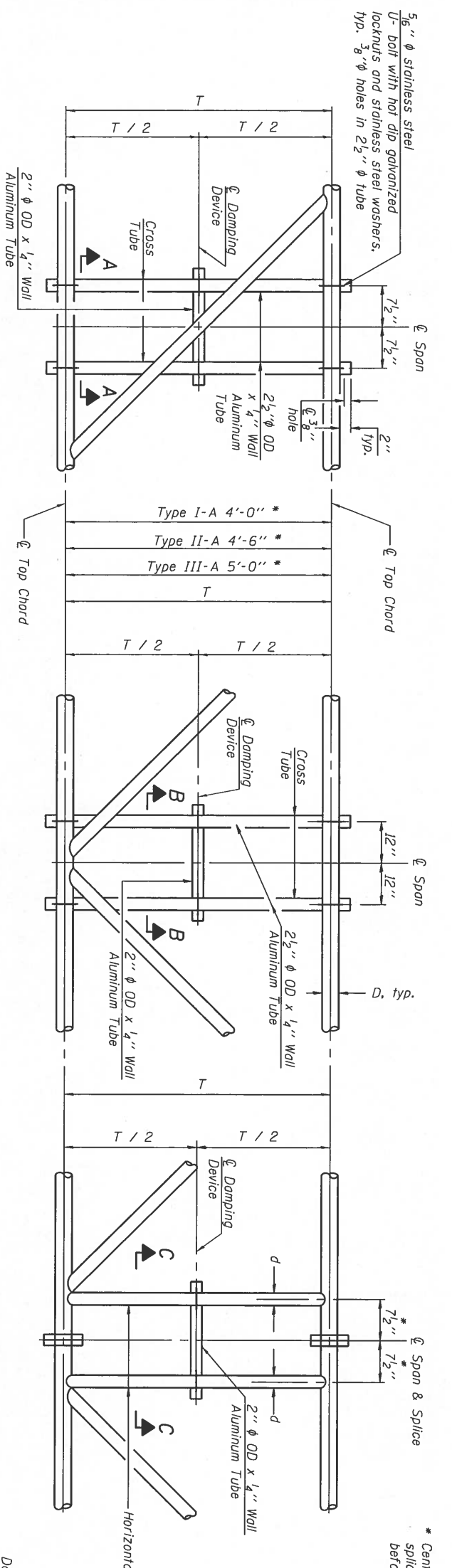
OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS DETAILS
FOR TRUSS TYPES I-A, II-A AND III-A

SCALE: N/A SHEET 3 OF 10 SHEETS STA. TO STA.

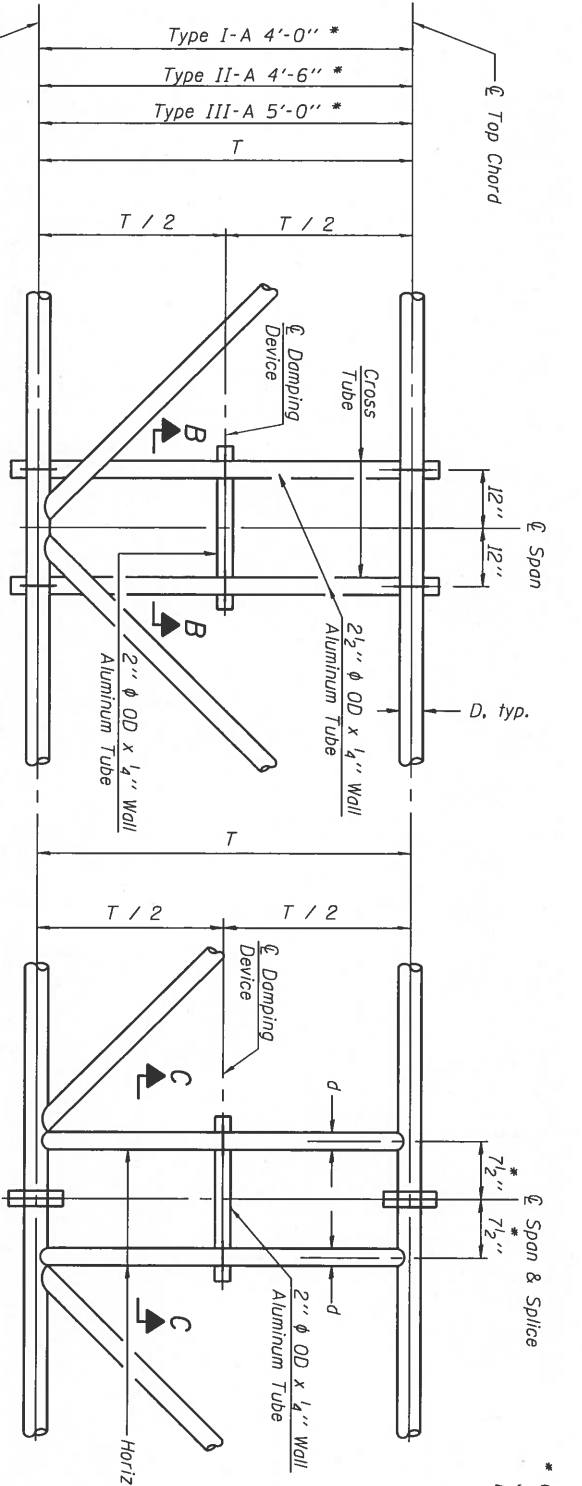
EFK Moen, LLC
Civil Engineering Design

FAI. RTE.	SECTION	COUNTY	TOTAL SHEETS
57	D9 I15 SIGNING 2017-1	JEFFERSON/WILLIAMSON	38
		CONTRACT NO. 78337	19

ILLINOIS FED. AID PROJECT

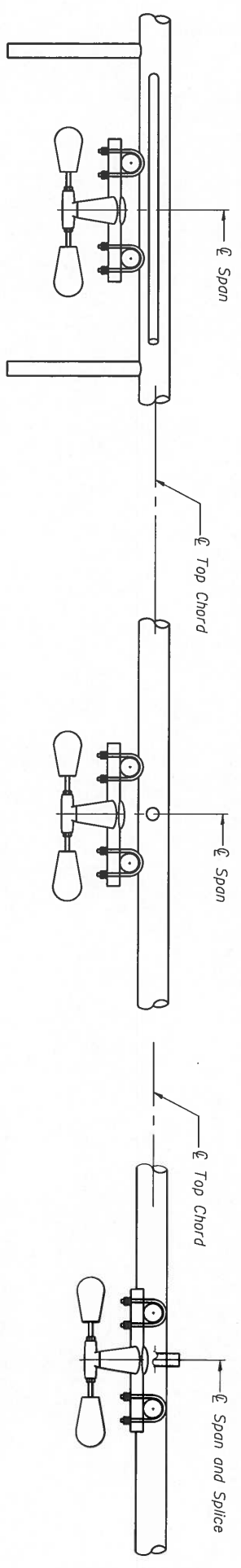


PLAN DETAIL "A"
 @ Span between Panel Points



PLAN DETAIL "B"
 @ Span at Panel Point

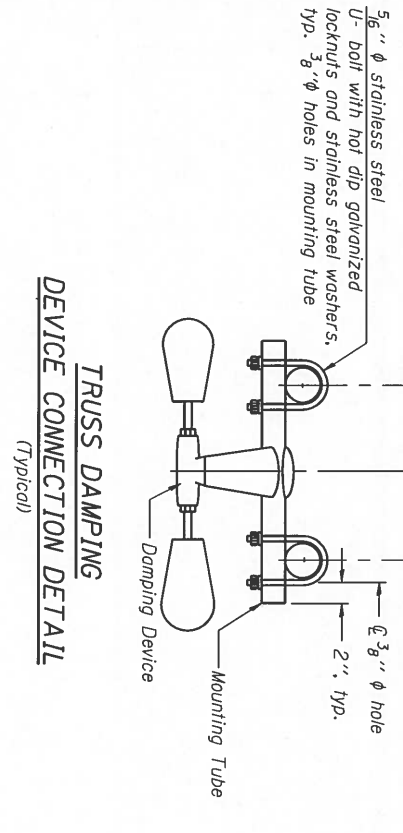
PLAN DETAIL "C"
 @ Span at Chord Splice



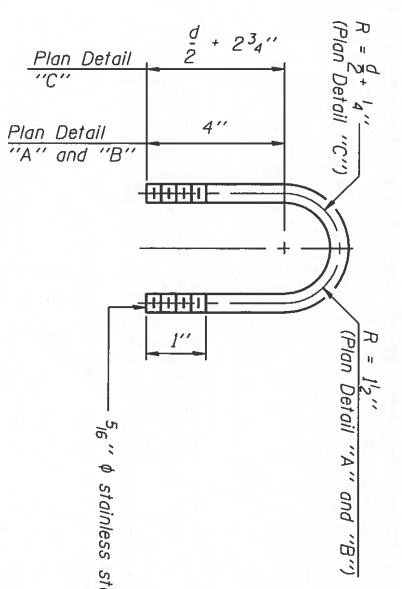
SECTION A-A

SECTION B-B

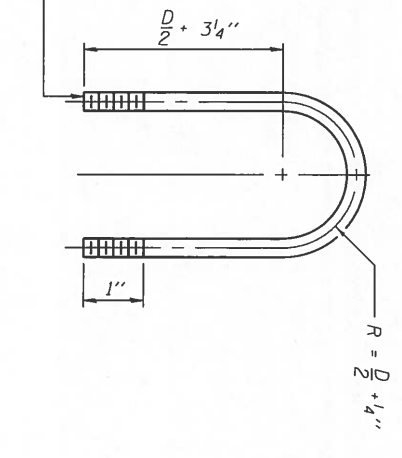
SECTION C-C



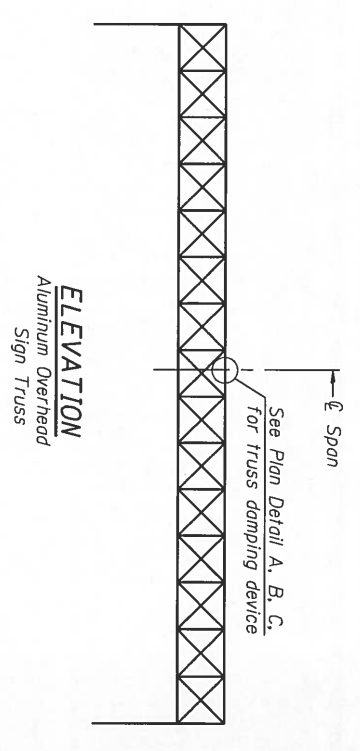
TRUSS DAMPING DEVICE CONNECTION DETAIL
 (Typical)



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL
 (Typical)



TOP CHORD TO CROSS TUBE U-BOLT DETAIL
 (Typical - Detail "A" and "B")



ELEVATION
 Aluminum Overhead Sign Truss

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

NOTES

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

OS-A-D

6-1-12

FILE NAME =	USER NAME = JJD	DESIGNED =	JJD	REVISION	
Y:\14810\1001\09\115\08\NDesign\Final\0918337-017-026-sign-truss.dgn	DRAWN =	CHECKED =	SJD	REVISION	
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	PLT DATE = 3/16/2015			REVISION	

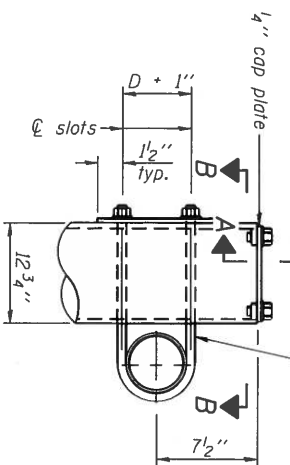
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURE
 DAMPING DEVICE

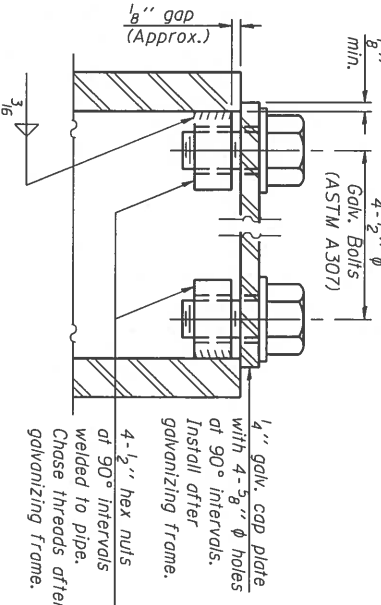
EPK Moen, LLC
 Civil Engineering Design

FILE	SECTION	COUNTY	TOTAL SHEET
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		WILLIAMSON	20
CONTRACT NO. 78337			
ILLINOIS FED. AID PROJECT			

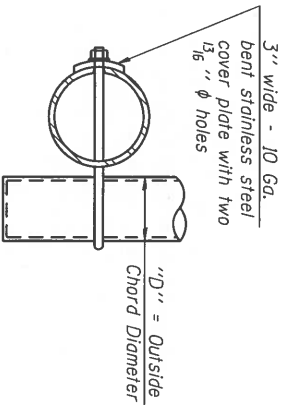
3/4" φ stainless steel U-bolt.
Provide two washers and two hexagon locknuts. (4) 1/8" x 2" slots on 12" φ pipe. (4 slots required per pipe)



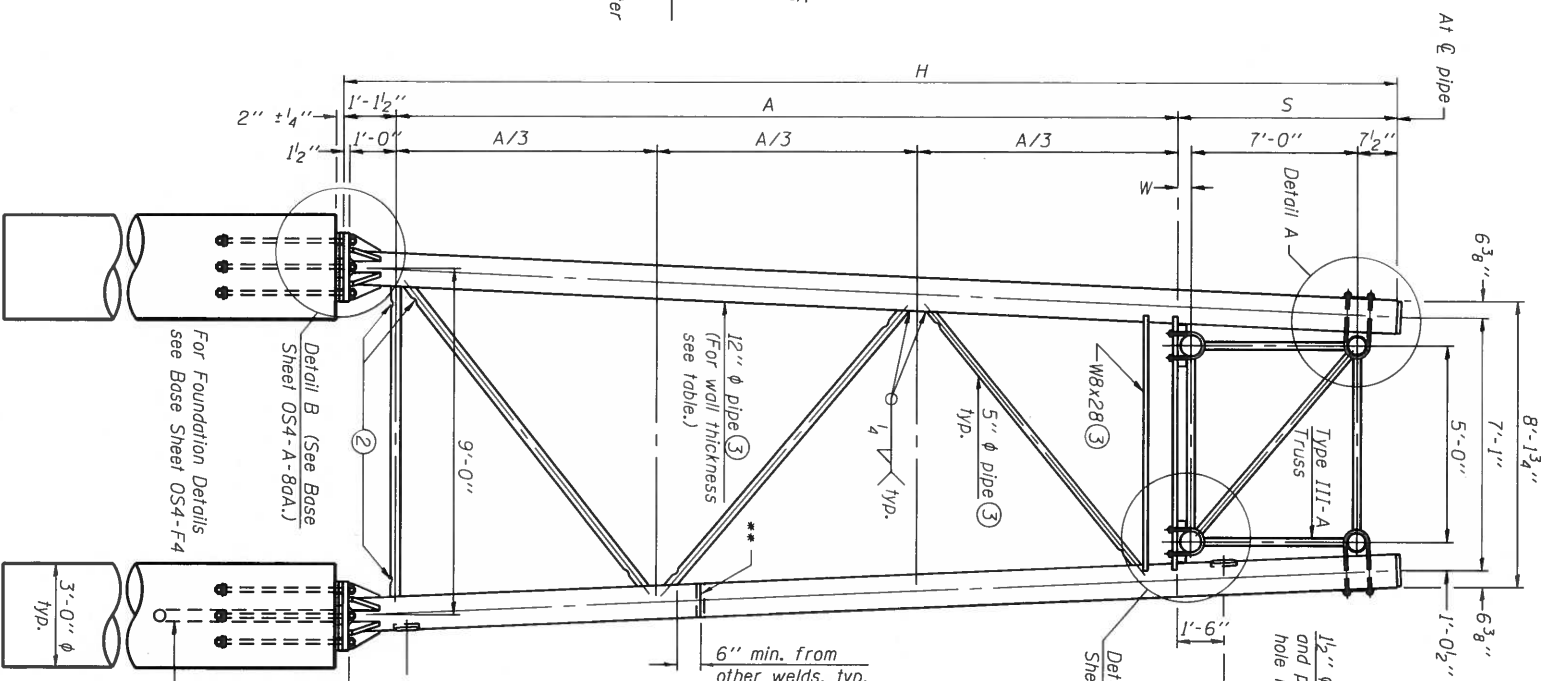
DETAIL A



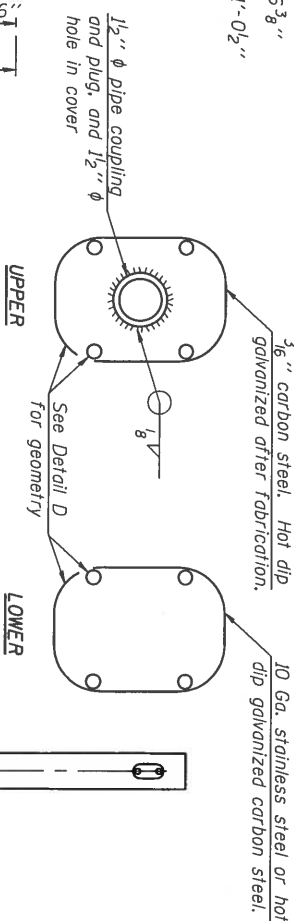
SECTION A-A
As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.



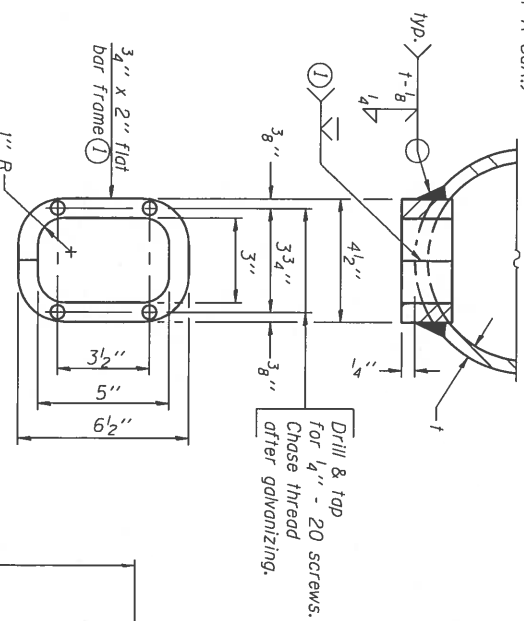
SECTION B-B



SIDE ELEVATION



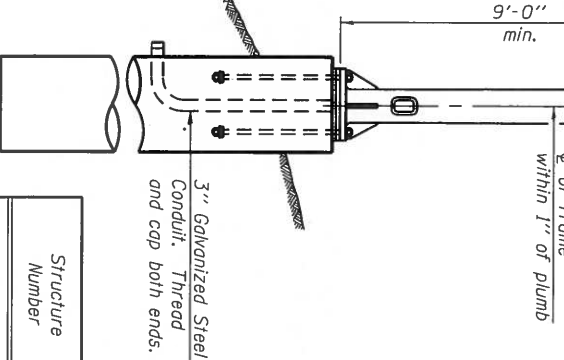
HANDHOLE COVERS



DETAIL D

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

Backfill shall be placed prior to erection of support frame



END ELEVATION

TRUSS SUPPORT DETAILS
(12" φ Pipe-Type III-A Truss)
** One butt welded joint is allowed only on one post per support frame. If used, weld procedure must be pre-approved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

Structure Number	Station	Support		Pipe Wall Thickness	H	A
		Left	Right			
9S0411057L088.6	432+50	X	X	0.33	27'-1 1/2"	17'-11 1/4"
				0.33	29'-2 3/8"	20'-5 8"
9S1001057R056.6	292+50	X	X	0.33	30'-5 5/8"	21'-3 7/8"
				0.33	29'-5 5/8"	20'-3 3/8"

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Civil Engineering Design

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

- In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 min or less.
- Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.
- Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1.
- See General Notes for fasteners.
- Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.
- "H" based on 15'-0" or actual sign height, whichever is greater.

* For dynamic message sign installations, provide upper and lower handholes in both legs of each support frame.

OS4-A-8a

6-1-12

FILE NAME =	USER NAME = J	DESIGNED - JRD	REVISION -
V:\4808 1001 09 115\00N\Design\OS4-A-1.dwg	POSTNAME = 0910337-017-025-signtruss.dgn	DRAWN - JRD	REVISION -
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PLT DATE = 3/16/2015	DATE - 3/13/15	DATE -	REVISION -

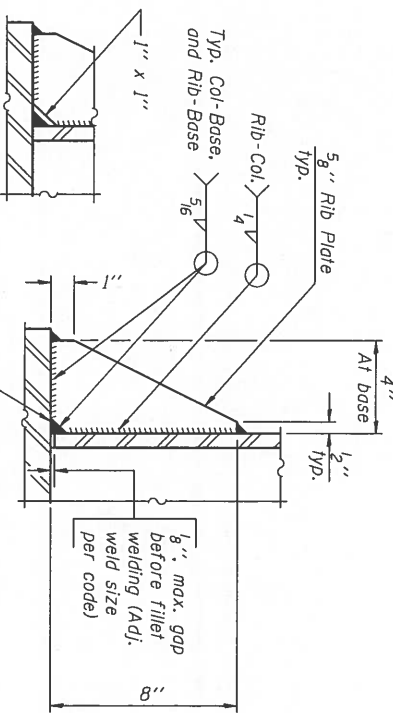
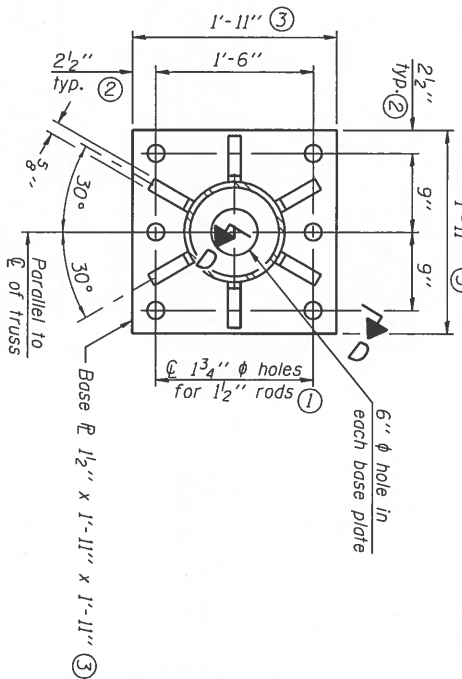
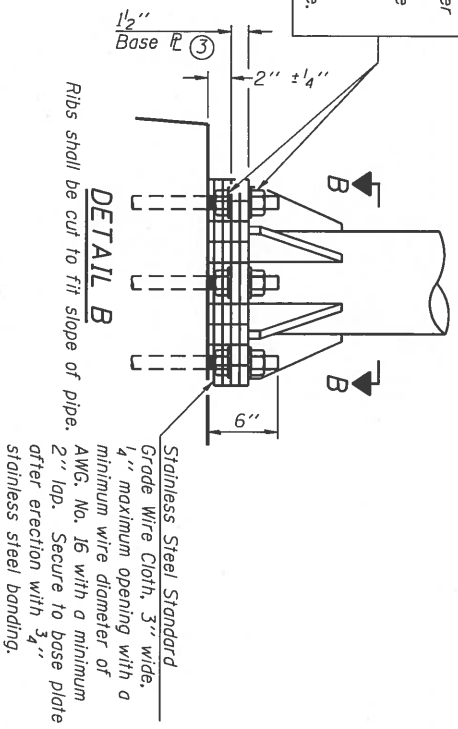
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

SCALE: N/A SHEET 5 OF 10 SHEETS STA. TO STA.

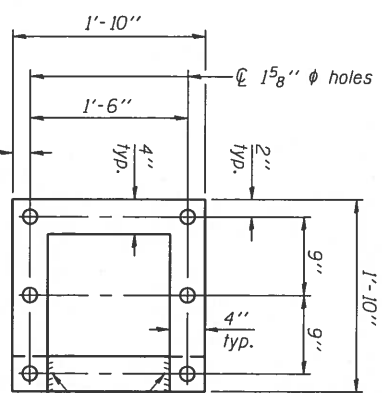
F.A.T. R.T.E.	SECTION	COUNTY	TOTAL SHEET NO.
57	09 115 SIGNING 2017-1	JEFFERSON	38
		MILLAMON	21
		CONTRACT NO. 18337	

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

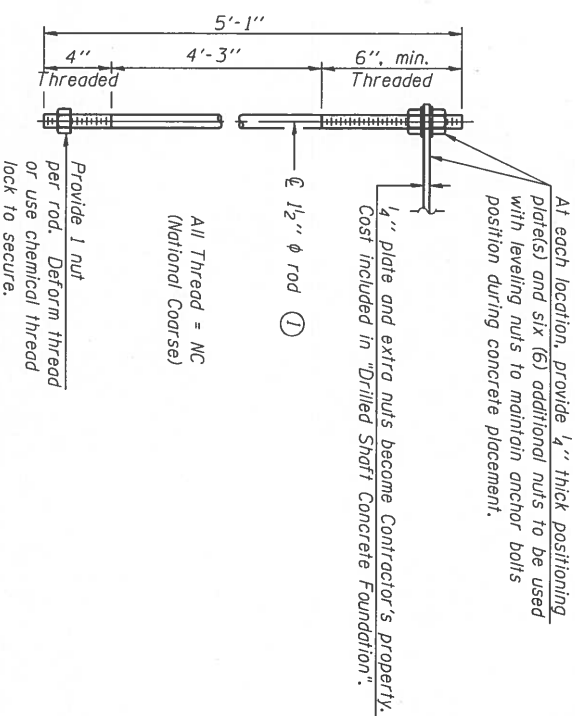


** Alternate detail if welding col. to base plate first, then snip inside corner of ribs. Terminate weld on rib 1/4" from snip.

SECTION D-D



POSITIONING PLATE(S)



ANCHOR ROD DETAIL

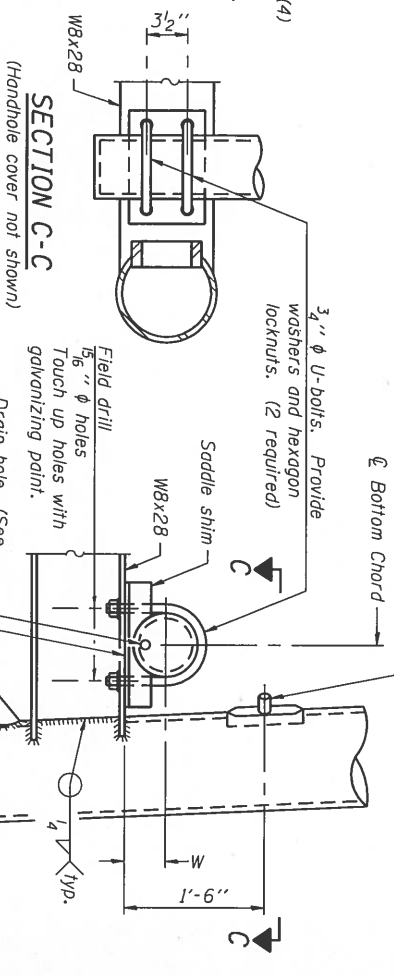
Anchor rods shall conform to ASTM F1554 Grade 105 Galvanize upper 12" minimum per AASHTO M232. No welding shall be permitted on rods.

TYPE III-A TRUSS

12" Ø PIPE SUPPORT FRAME DETAILS

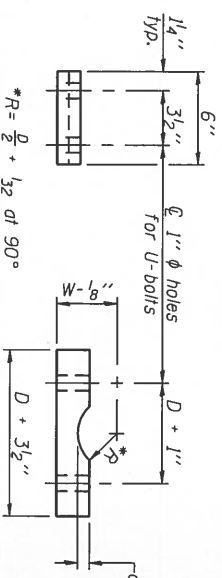
Notes:
For Type III-A Truss spans greater than 150 ft., and up to 160 ft.:

- ① 1 3/4" Ø rod, 2" Ø holes
- ② 2 3/4" edge distance
- ③ Base R 1 5/8" x 1'-11 1/2" x 1'-11 1/2"



SECTION C-C

DETAIL C



SADDLE SHIM DETAIL

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

Truss Chord	Ø
Nominal Dia.	7"
	8 1/2"
	9"

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

OS4-A-80A

6-1-12

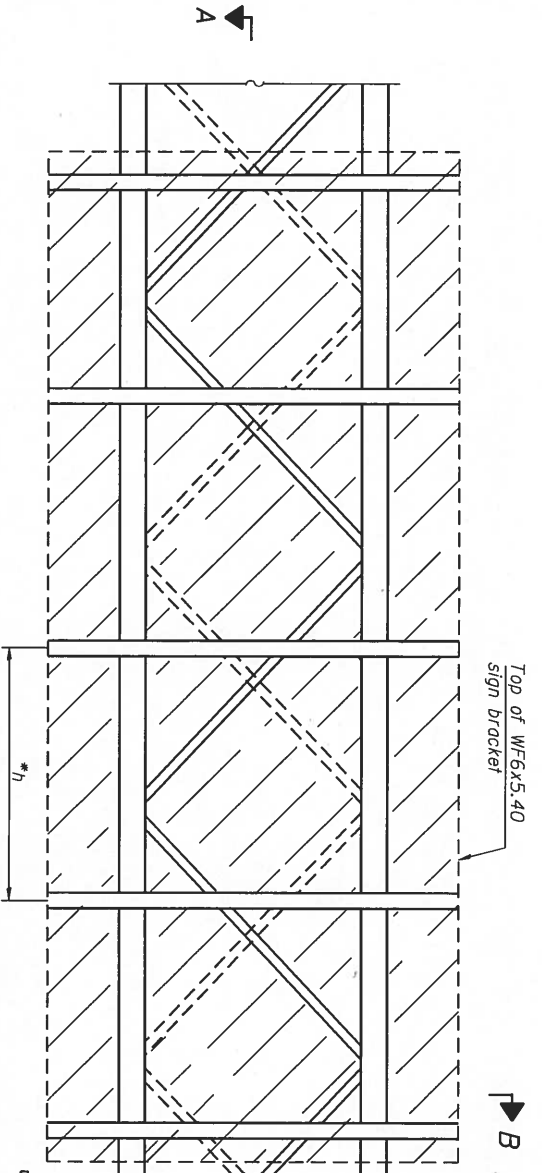
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PLT SCALE = 1/8"=1'-0"	DATE = 3/13/15		
PLT DATE = 3/16/2015			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A.I. RITE	SECTION	COUNTY	TOTAL SHEET NO.
57	D9 ITS SIGNING 2017	JEFFERSON/WILLIAMSON	38 / 22
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78337

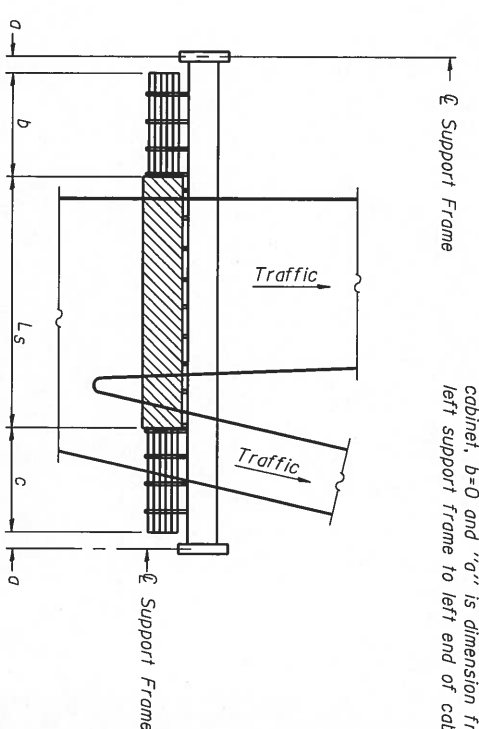
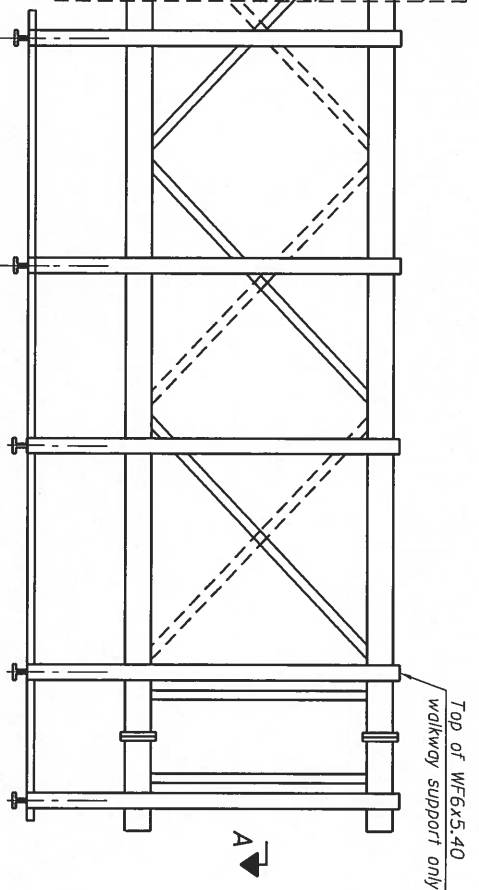
EFK Moen, LLC
Civil Engineering Design



TYPICAL FRONT ELEVATION
With handrail omitted for clarity.

Top of WF6x5.40 sign bracket

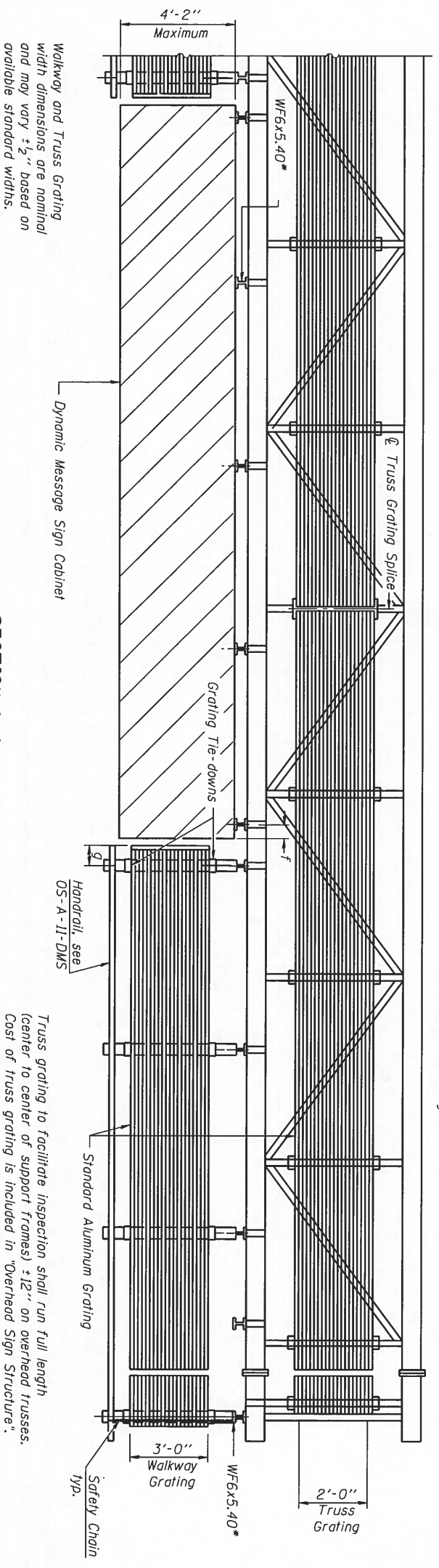
Bracket and grating dimensions are nominal and will vary based on actual DMS cabinet dimensions plus manufacturer's mounting devices.



WALKWAY AND HANDRAIL SKETCH
(Road plan beneath truss varies)

BRACKET TABLE

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



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

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

SECTION A-A

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

Structure Number	Station	d	b	c	Ls	Walkway Grating and Handrail Lengths
9504110571088.6	432+50	-	-	6'	OF DMS	6'
951001057R056.6	292+50	-	-	7'	OF DMS	7'

Notes:
 * Space walkway brackets WF6x5.40 for efficiency and within limits shown:
 f = 12" maximum, 4" minimum (End of sign to \mathcal{C} of nearest bracket)
 g = 12" maximum, 4" minimum (End of walkway grating to \mathcal{C} of nearest support bracket)
 h = 6'-0" maximum \mathcal{C} to \mathcal{C} sign and/or walkway support brackets, WF6x5.40
 Maximum DMS weight = 5000 lbs. 4'-2" maximum cabinet depth includes depth of cabinet plus connection to WF6x5.40.
 For Section B-B and Grating Splice Details, see Base Sheet OS-A-10-DMS.
 For Handrail Splice Details, see Base Sheet OS-A-11-DMS.

OS-A-9-DMS

6-1-12

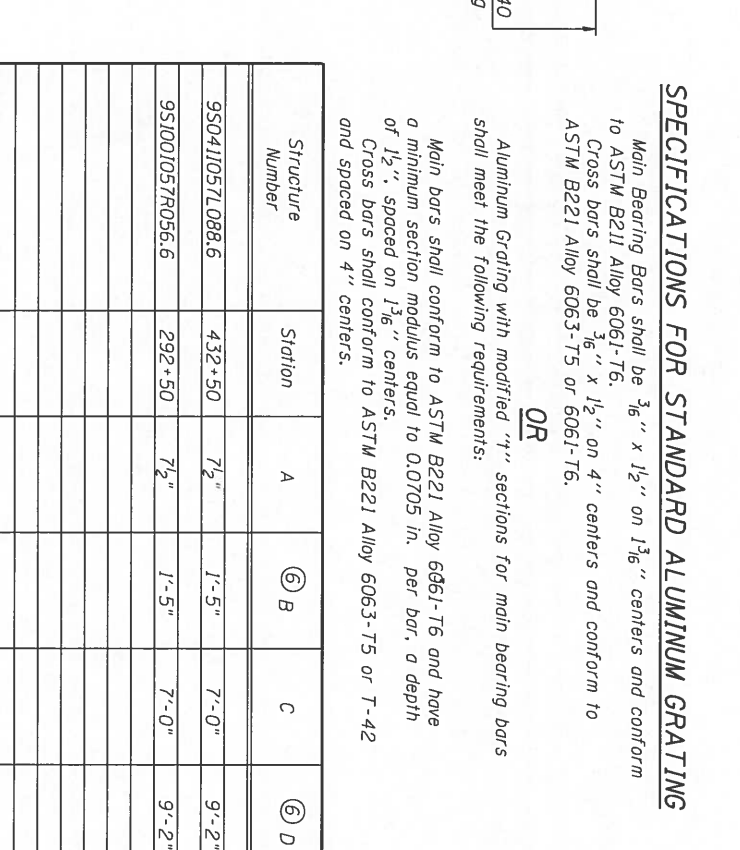
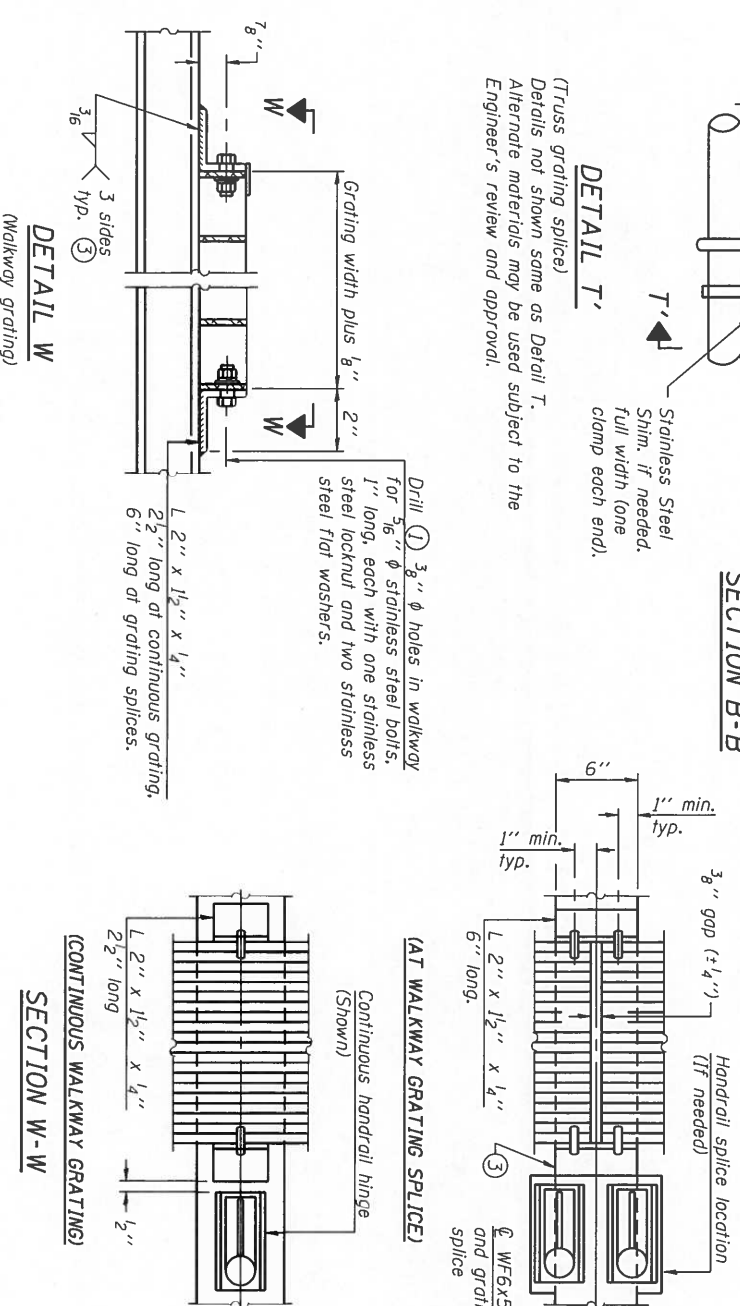
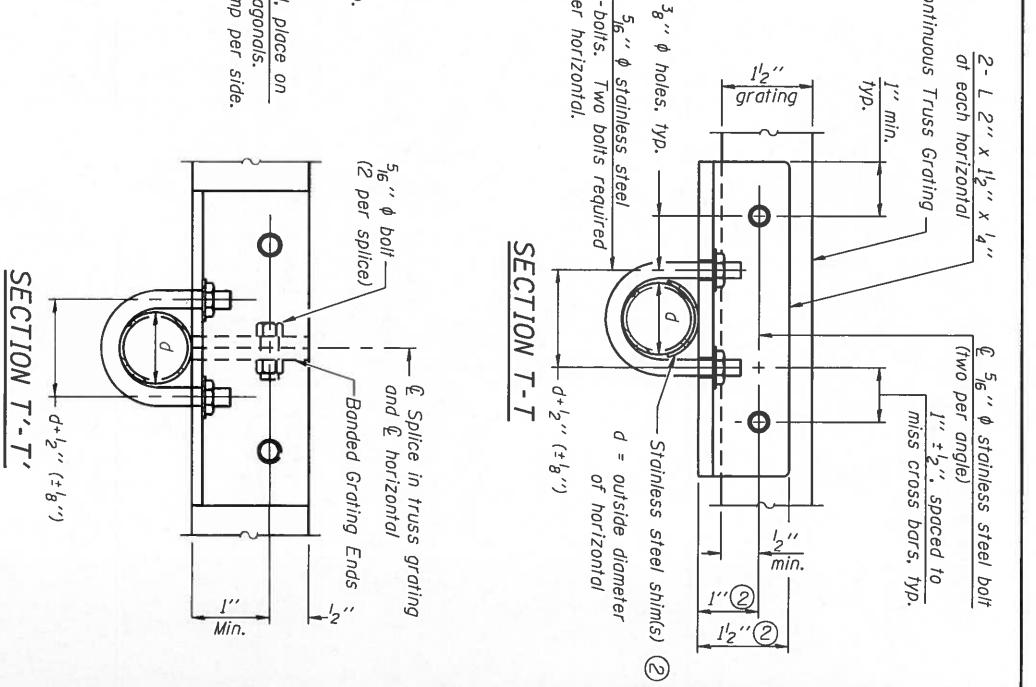
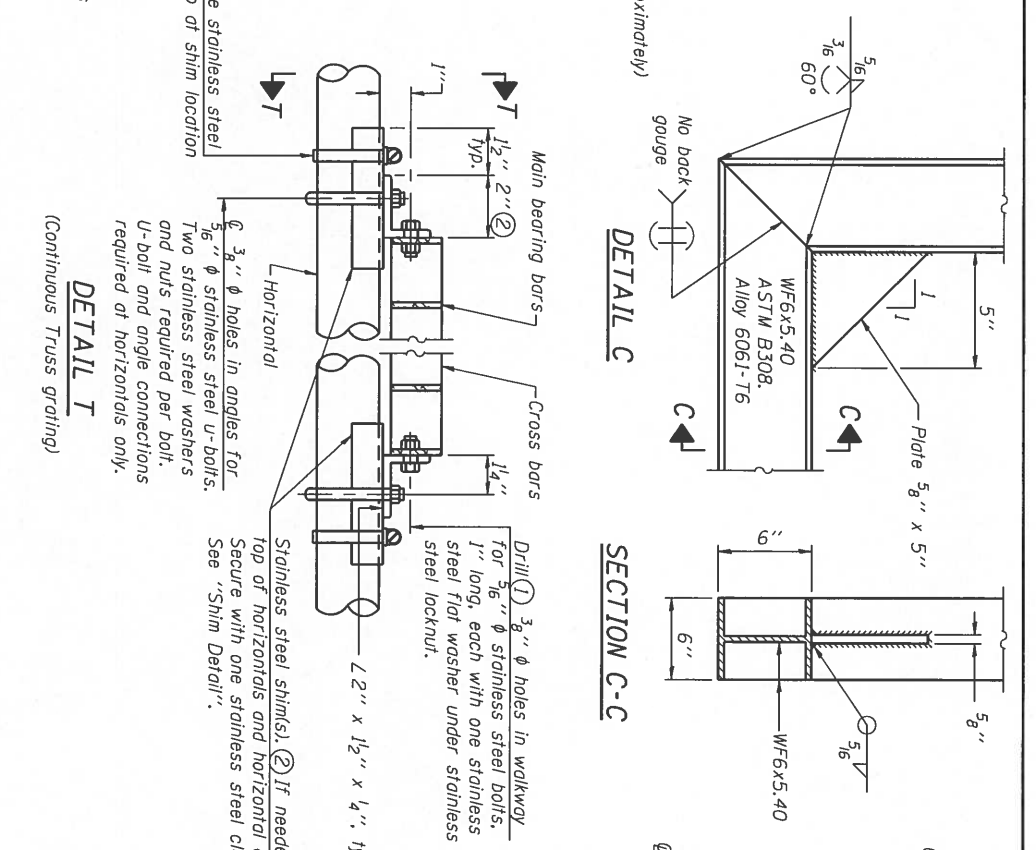
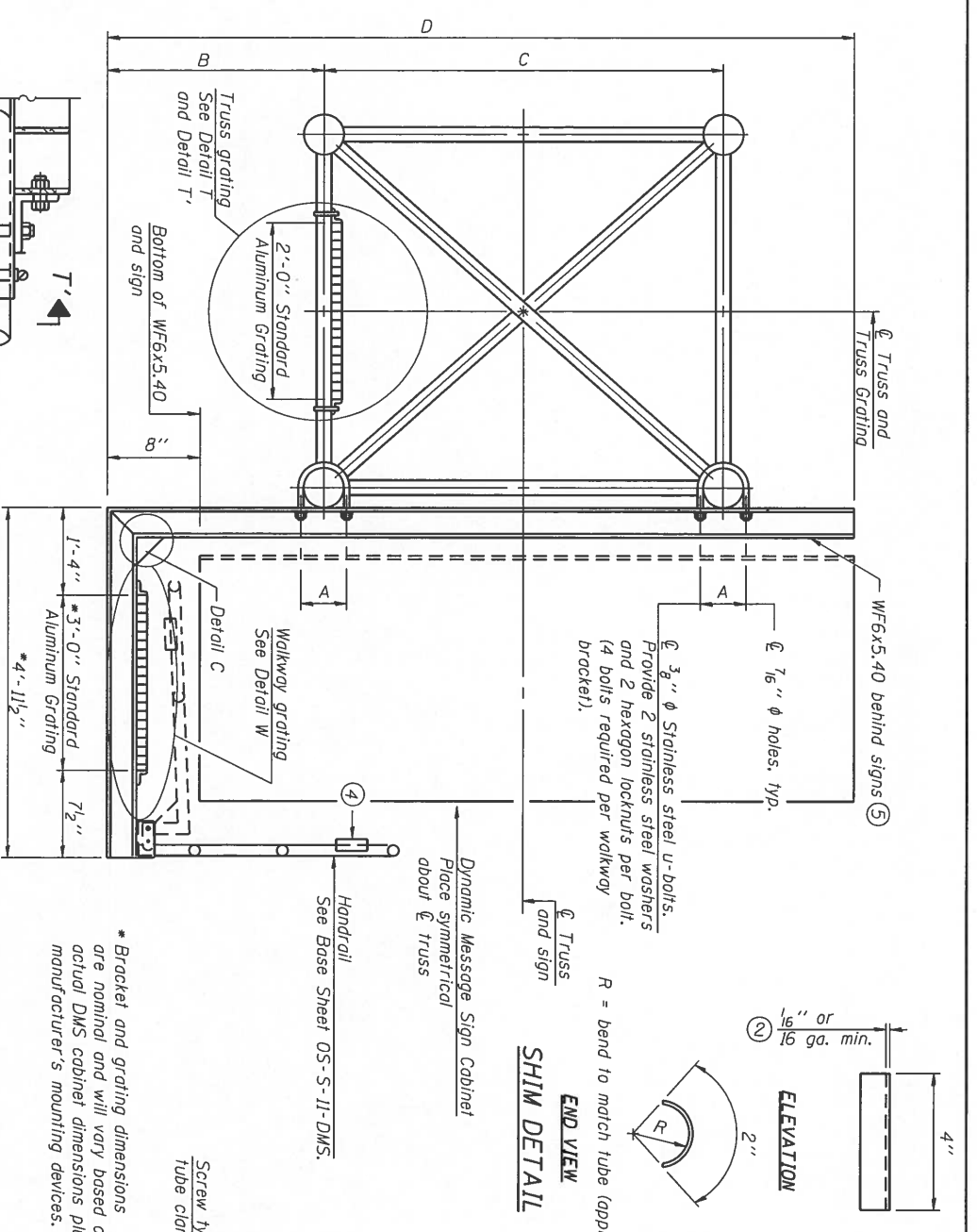
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DESIGNED BY =	CHECKED BY =	DATE	
JLD	JLD	3/13/15	
PLOT SCALE = 1/80,000 / 1"	DATE		
PLT DATE = 3/16/2015	REVISID		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES
ALTERNATE ALUMINUM WALKWAY DETAILS FOR DMS**

SCALE: N/A	SHEET 7	OF 10	SHEETS
STA.			TO STA.
EA1	SECTION	COUNTY	TOTAL SHEET
RTE.	NO.	SHEETS	NO.
57	09 IIS SIGNING 2011	JEFFERSON	38
		WILLIAMSON	23
		CONTRACT NO.	78337
		ILLINOIS FED. AID PROJECT	

EFK Moen, LLC
Civil Engineering Design



SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars shall be 3/8" x 1 1/2" on 1 3/8" centers and conform to ASTM B211 Alloy 6061-T6.
 Cross bars shall be 3/8" x 1 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

Aluminum Grating with modified "T" sections for main bearing bars shall meet the following requirements:

Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in. per bar. a depth of 1 1/2", spaced on 1 3/8" centers.
 Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

Structure Number	Station	A	B	C	D
950411057L088.6	432+50	7 1/2"	1'-5"	7'-0"	9'-2"
951001057F056.6	292+50	7 1/2"	1'-5"	7'-0"	9'-2"

- Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- Stainless steel shims shall be placed as shown in Detail T. If needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
- If Handrail Joint present, weld angle to WFA-M4 and 1/4" extension bars. (See Base Sheet OS-A-11.)
- 2" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.
- Cabinet manufacturer must design and supply hardware for connection of cabinet to WFG's. Bolts must be stainless steel or hot dip galvanized high strength per IDOT specifications.
- Based on actual height of tallest sign given on OS-A-1.

OS-A-10-DMS 6-1-12

FILE NAME: V:\14810 IDOT 09 IIS\DDN\Design\Palin\...
 USER NAME: jrd
 DESIGNED: JRD
 DRAWN: JRD
 CHECKED: SLD
 DATE: 3/13/15

REVISIONS:

NO.	DATE	DESCRIPTION
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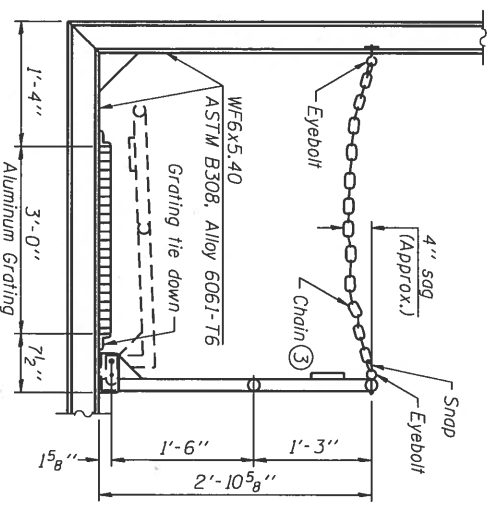
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
 ALTERNATE ALUMINUM WALKWAY DETAILS FOR DMS

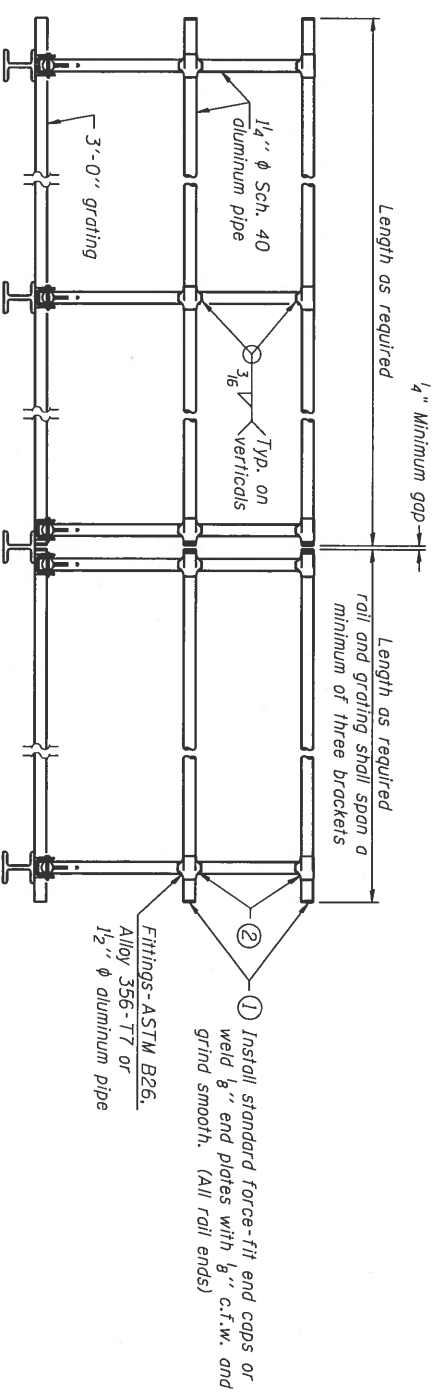
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EPK Moen, LLC
 Civil Engineering Design

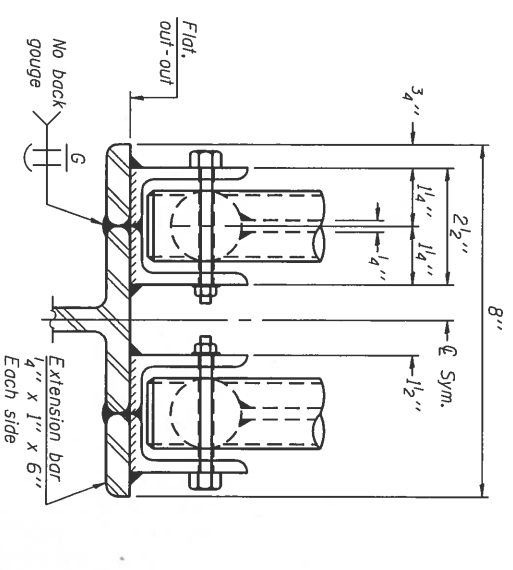
FILE NO. 09 IIS SIGNING 2017-1
 COUNTY WILLIAMSON
 CONTRACT NO. 78337



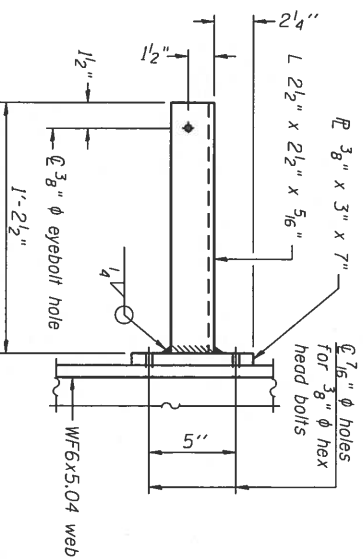
SIDE ELEVATION
(Showing safety chain w/o sign)



FRONT ELEVATION



ELEVATION AT HANDRAIL JOINT ④

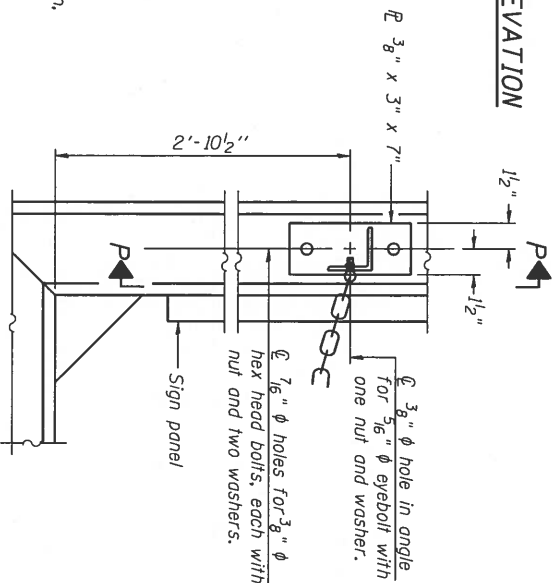


SECTION P-P

Handrail pipe shall be ASTM B241, Alloy 6063-T6 or Alloy 6061-T6.

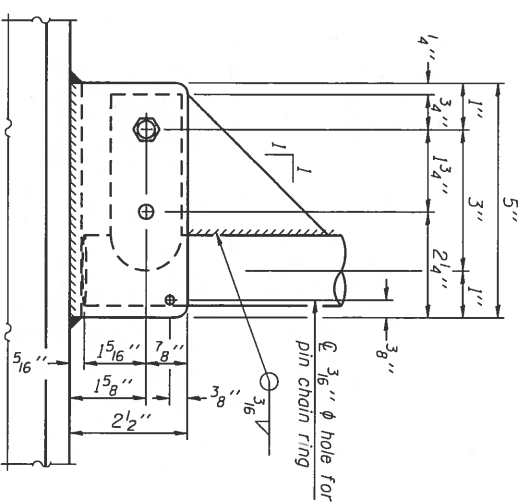
HANDRAIL DETAILS

- ② Horizontal handrail member shall be continuous thru fitting. Provide 1/8" φ hole in fitting for 3/8" φ bolt. Field drill 1/8" φ hole in horizontal rail member. Provide washer and locknut for bolt. (Use 5/16" eyebolts in 1/8" φ holes on top rail at ends only.)
- ③ 3/6" type 304L stainless steel chain, approximately 12 links per foot.
- ④ Extrusions may be used in lieu of the details shown, with approval of the Engineer.

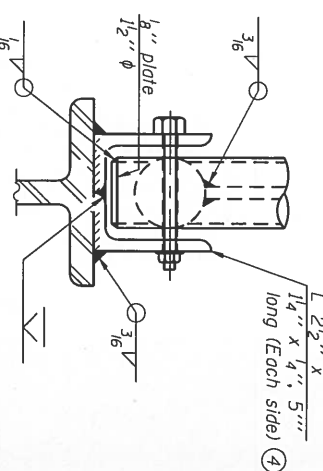


ALTERNATE SAFETY CHAIN ATTACHMENT

(With Sign Present)
Items not shown same as "Side Elevation" of "Handrail Details"

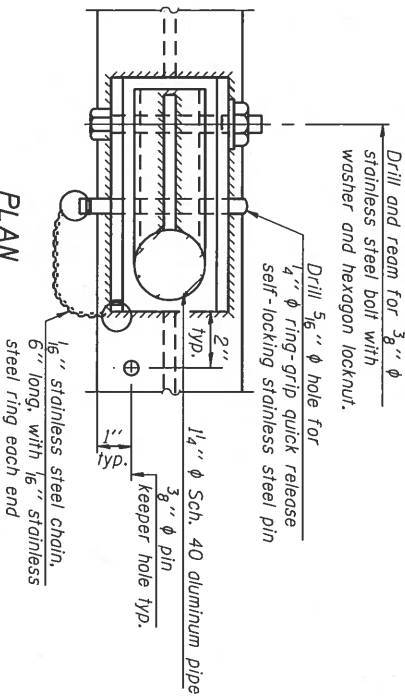


SIDE ELEVATION



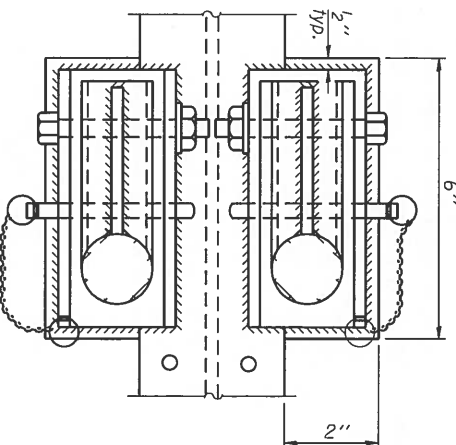
FRONT ELEVATION

See "ELEVATION" at right for dimensions.



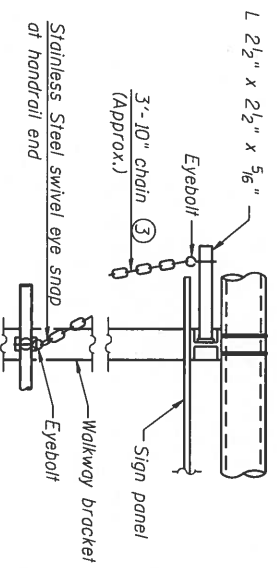
PLAN

DETAIL E HANDRAIL HINGE



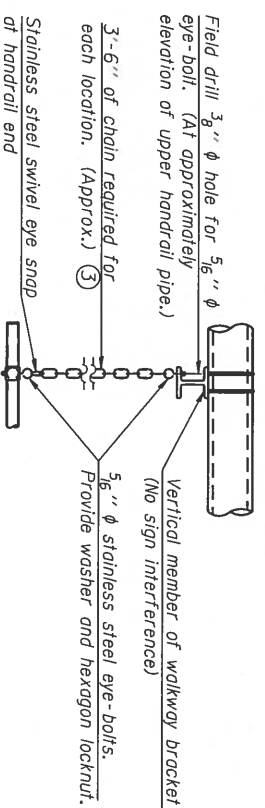
PLAN AT HANDRAIL JOINT

Details not shown same as "PLAN"



ALTERNATE SAFETY CHAIN ATTACHMENT

Details not shown similar to "Safety Chain" Details (Walkway omitted for clarity)



SAFETY CHAIN

One required for each end of each walkway.

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PLT SCALE : 1/8" = 1'-0"	DATE : 3/13/15	CHECKED : SLD	REVISED : -
PLT DATE : 3/16/2015		DATE : 3/13/15	REVISED : -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	OVERHEAD SIGN STRUCTURES ALTERNATE ALUMINUM HANDRAIL DETAILS FOR DMS
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SCALE: N/A	SHEET 9	OF 10 SHEETS	STA. TO STA.
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E.A.I. RITE SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	JEFFERSON	38	25
09 115 SIGNING 2017-1	WILLIAMSON CONTRACT NO.		78337
ILLINOIS FED. AID PROJECT			

OS-A-11-DMS

6-1-12

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
ALTERNATE ALUMINUM HANDRAIL DETAILS FOR DMS

EFFK Moen, LLC
Civil Engineering Design

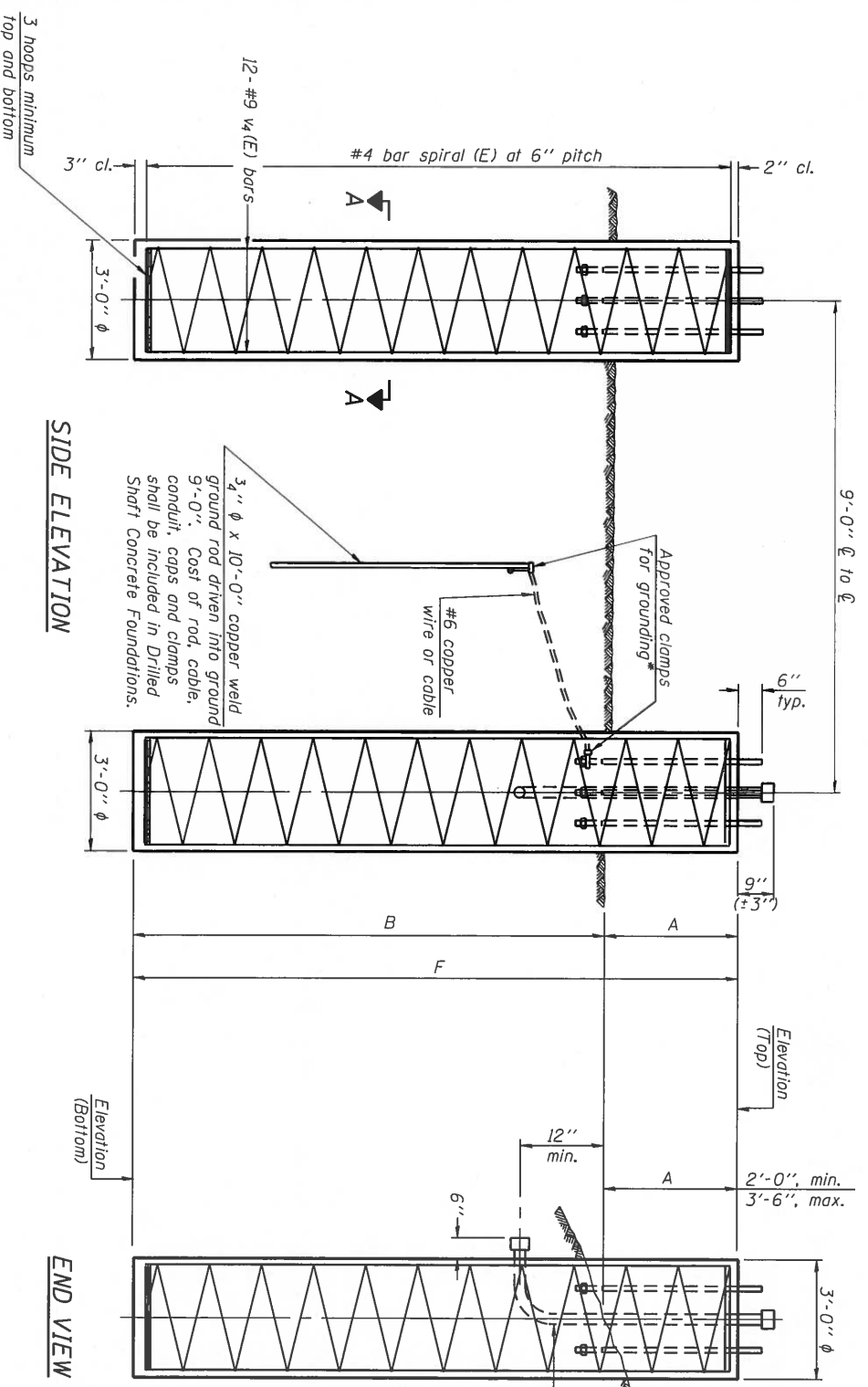
BAR LIST - EACH FOUNDATION

Bar Number	Size	Length	Shape
¼(E)	24	#9	F less 5"
#4 Bar spiral (E)			see Side Elevation

NOTES:

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

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "g" 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. 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.



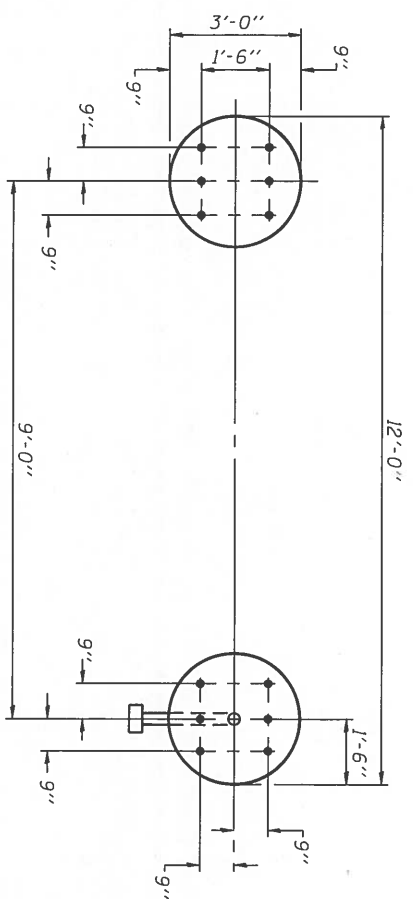
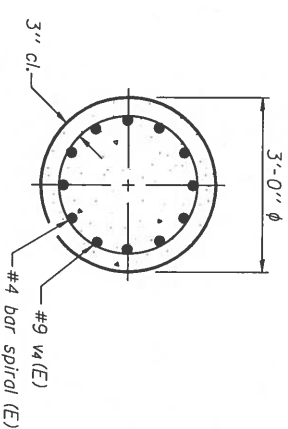
SIDE ELEVATION

END VIEW

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

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

SECTION A-A



PLAN

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

EFK • Moen, LLC
Civil Engineering Design

Structure Number	Station	Left Foundation				Right Foundation				Class DS Concrete (Cu. Yds.)	
		Elevation Top	Elevation Bottom	A	B	F	Elevation Top	Elevation Bottom	A		B
9S04110571L088.6	432+50	432.79	407.59	7'-2 3/8"	18'-0"	25'-2 3/8"	430.67	410.17	2'-6"	18'-0"	23.9
9S1001057R056.6	292+50	457.02	437.02	2'-0"	18'-0"	20'-0"	458.06	437.56	2'-6"	18'-0"	21.2

OS4-F4

8-21-13

FILE NAME =	USER NAME = jld	DESIGNED -	JRD	REVISED -	
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PLT DATE = 3/16/2015	DATE = 3/13/15	REVISED -		REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE: N/A	SHEET 10	OF 10	SHEETS	STA.	TO STA.
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OVERHEAD SIGN STRUCTURES DRILLED SHAFT DETAILS		TOTAL SHEET NO.	
F.A.I. SITE	SECTION	COUNTY	SHEETS
57	09 ITS SIGNING 2017-1	JEFFERSON WILLIAMSON	26
		CONTRACT NO. 78337	
		ILLINOIS FED. AID PROJECT	

ILLINOIS DEPARTMENT OF TRANSPORTATION
 District Nine Materials

Bridge Foundation
 Boring Log
 Sheet 1 of 1

Proposed Truss Mounted Message Board Over Southbound FAI 57
 Route: FAI 57 Structure Number: 950411057L088.6
 Section 09 ITS Signing 1013
 County: Jefferson

Bored By: R Moberly
 Date: 7/21/2014

D E P T H	B L O W S	Q U I T S	W %	Surf Wat Elev: Ground Water Elevation when Drilling At Completion At: Hrs:	D E P T H	B L O W S	Q U I T S	W %	Description
				429.3 Ft					Crushed aggregate
427.3	1	1.1B	18	402.3					Stiff, moist, brown, Silty Clay A-6
	2	1.1B	18						Very soft, wet, brown, Silty Clay to Silty Clay Loam A-6
	3								
	4	3.1S	20						Very stiff, moist, grey mottled brown, Silty Clay to Clay A7-6
	5								
	2	3.7B	17	397.3					Medium to stiff, very moist, grey mottled brown, Silty Clay A-6
	5								
	4	3.1S	18						Soft, very moist, grey, Clay A7-6
	6								
	2			392.3					Very stiff, moist, brown mottled grey, Clay A7-6
	3	2.3B	21						
	4								
	9	1.6S	17	389.8					Stiff, moist, brown and grey, Clay Loam A-6
	14								
	1	1.2S	22						Medium to soft, very moist, grey, Clay A7-6
	3								
	1	1.2S	22						Stiff, moist, grey mottled brown, Silty Clay A-6
	3								
	1	1.2S	22						Stiff, moist, brown, Silty Clay to Clay A7-6
	3								
	3	1.8B	25	383.3					Very loose, wet, grey, Sand
	1								Bottom of hole = 46.0 feet
	1	0.8B	26						Medium, very moist, brown, Silty Clay to Clay A7-6 (15)
	2								Free water observed at 27.0 feet
	2								Elevation referenced to CL SB 157@ Sta. 432+50; Elevation = 430.4 feet
	1			404.8					
	25.0	WH							

N-Std Penetr Test: 2" OD Sampler, 140# Hammer, 30" Fall (Type Fall, B-Bulge S-Shear E-Estimated P-Penetrometer)

FILE NAME: Y:\1400 1001 09 ITS\DOM\Design\Pre\Illinois\...
 USER NAME: Jrd
 DESIGNED: JRD
 DRAWN: JRD
 CHECKED: SLID
 DATE: 3/13/15

REVISIONS:
 REVISED: -
 REVISED: -
 REVISED: -
 REVISED: -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: N.A. SHEET 1 OF 2 SHEETS STA. TO STA.
 SECTION: 09 ITS SIGNING 2014
 COUNTY: JEFFERSON
 CONTRACT NO. 78337

ILLINOIS DEPARTMENT OF TRANSPORTATION
 District Nine Materials

Bridge Foundation
 Boring Log
 Sheet 1 of 1

Proposed Truss Mounted Message Board Over Southbound FAI 57
 Route: FAI 57 Structure Number: D90411057L088.6
 Section 09 ITS Signing 1013
 County: Jefferson

Bored By: R Moberly
 Date: 7/21/2014

D E P T H	B L O W S	Q U I T S	W %	Surf Wat Elev: Ground Water Elevation when Drilling At Completion At: Hrs:	D E P T H	B L O W S	Q U I T S	W %	Description
				430.1 Ft					Asphalt over crushed aggregate
428.1	1	0.8B	24	400.6					Medium, very moist, grey, Silty Clay A-6
	1	0.8B	24						
	4	3.3B	17						Very stiff, moist, brown and grey, Silty Clay A-6
	4								
	2	3.7S	17						Very stiff, moist, grey, Silty Loam A-4
	9								
	1	2.7B	22						Very stiff, moist, brown and grey, Clay A7-6
	4								
	5								
	1	3.1B	19						Very stiff, moist, brown and grey, Clay A7-6
	4								
	5								
	2	2.5B	18						Very stiff, moist, grey mottled brown, Silty Clay to Silty Clay Loam A-6
	6								
	1	2.7S	21						Very stiff, moist, grey mottled brown, Silty Clay to Silty Clay Loam A-6
	3								
	1	1.1B	26						Stiff, moist to very moist, grey mottled brown, Silty Clay Loam A-6
	1								
	1	0.7B	26						Medium, very moist, brown, Silty Clay to Clay A7-6
	2								
	1			405.6					
	25.0	WH							

N-Std Penetr Test: 2" OD Sampler, 140# Hammer, 30" Fall (Type Fall, B-Bulge S-Shear E-Estimated P-Penetrometer)

EFK Moen, LLC
 Civil Engineering Design

ILLINOIS DEPARTMENT OF TRANSPORTATION
District Nine Materials

Bridge Foundation
Boring Log
Sheet 1 of 1

Proposed Truss Mounted Message Board Over FAI 57
Route: FAI 57 Structure Number: Bored By: R Moberly
Date: 7/17/2014

Section: Williamson Location: Milemarker 56.5, 0.7 mi S of Stottlar Checked By: R Graeff

Boring No. 1-MB Station 292+50 Offset 23' Lt Cl Median Ground Surface 457.8 Ft 9.5" Asphalt over crushed aggregate	D E P T H	B L O W S	Q u tsf	W%	Surf Wat Elev: Ground Water Elevation when Drilling At Completion Hrs: At:	D E P T H	B L O W S	Q u tsf	W%
Very stiff, moist, brown, Clay A7-6 453.8	5.0	1			Cored 24.7 to 29.7 feet Very dense, dry, brown and grey, Sandstone 100% Recovery, 7% ROD Bottom of hole = 29.7 feet No free water observed Elevation referenced to plans at Sta 292+50; Elev = 458.3 ft Borehole advanced with hollow stem auger (8" O.D, 3.25" I.D.) To convert "N" values to "N60" multiply by 1.25	427.8	30.0		
		2	2-1B	21					
		4							
		6	2-5B	18					
		9							
		10	5-0B	14					
Hard, damp, brown mottled grey, Clay A7-6 448.3		3							
		6							
		8	2-7B	17					
Very stiff, moist, brown and grey, Clay to Clay Loam A-6 445.8		3							
		6							
		8							
Stiff, moist, brown and grey, Clay to Clay Loam A-6 440.8		1							
		3	1-5B	16					
		4	1-2B	24					
V.dense, dry, br. Sandstone 437.8 Cored 19.7 to 24.7 feet Very dense, dry, brown and grey, highly weathered Sandstone with Clay layers 40% Recovery, 0% ROD 432.8		20.0	100/2"						

N-Std Penetr Test: 2" OD Sampler, 140# Hammer, 30" Fall (Type Fall, B-Bulge S-Shear E-Estimated P-Penetrometer)

ILLINOIS DEPARTMENT OF TRANSPORTATION
District Nine Materials

Bridge Foundation
Boring Log
Sheet 1 of 1

Proposed Truss Mounted Message Board Over FAI 57
Route: FAI 57 Structure Number: Bored By: R Moberly
Date: 1/21/2015

Section: Williamson Location: Milemarker 56.5, 0.7 mi S of Stottlar Checked By: R Graeff

Boring No. 2-MB Station 292+50 Offset 75' Lt Cl Median Ground Surface 457.6 Ft Stiff, moist to very moist, brown mottled grey, Silty Clay to Clay A7-6	D E P T H	B L O W S	Q u tsf	W%	Surf Wat Elev: Ground Water Elevation when Drilling At Completion Hrs: At:	D E P T H	B L O W S	Q u tsf	W%
Very stiff, moist, brown mottled grey, Clay A7-6 453.1	5.0	2			Bottom of hole = 17.8 feet No free water observed Elevation referenced to plans at Sta 292+50; Elev = 458.3 ft Borehole advanced with hollow stem auger (8" O.D, 3.25" I.D.) To convert "N" values to "N60" multiply by 1.25				
		4	1-2B	20					
		5	3-3S	22					
		6							
		2	2-7S	20					
		4							
Hard, moist, brown mottled grey, Clay A7-6 448.1		4							
		10	4-5B	16					
		10							
Very stiff, moist, brown mottled grey, Clay A7-6 445.6		2							
		4	2-1B	23					
		5							
		10	1-4S	21					
		18							
Stiff, moist, brown mottled grey, Clay A7-6 with sand seams 443.1		4							
		10							
		21							
Very dense, dry, brown, Sandstone 439.6		24	100/4"						

N-Std Penetr Test: 2" OD Sampler, 140# Hammer, 30" Fall (Type Fall, B-Bulge S-Shear E-Estimated P-Penetrometer)

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CHECKED: SLJ
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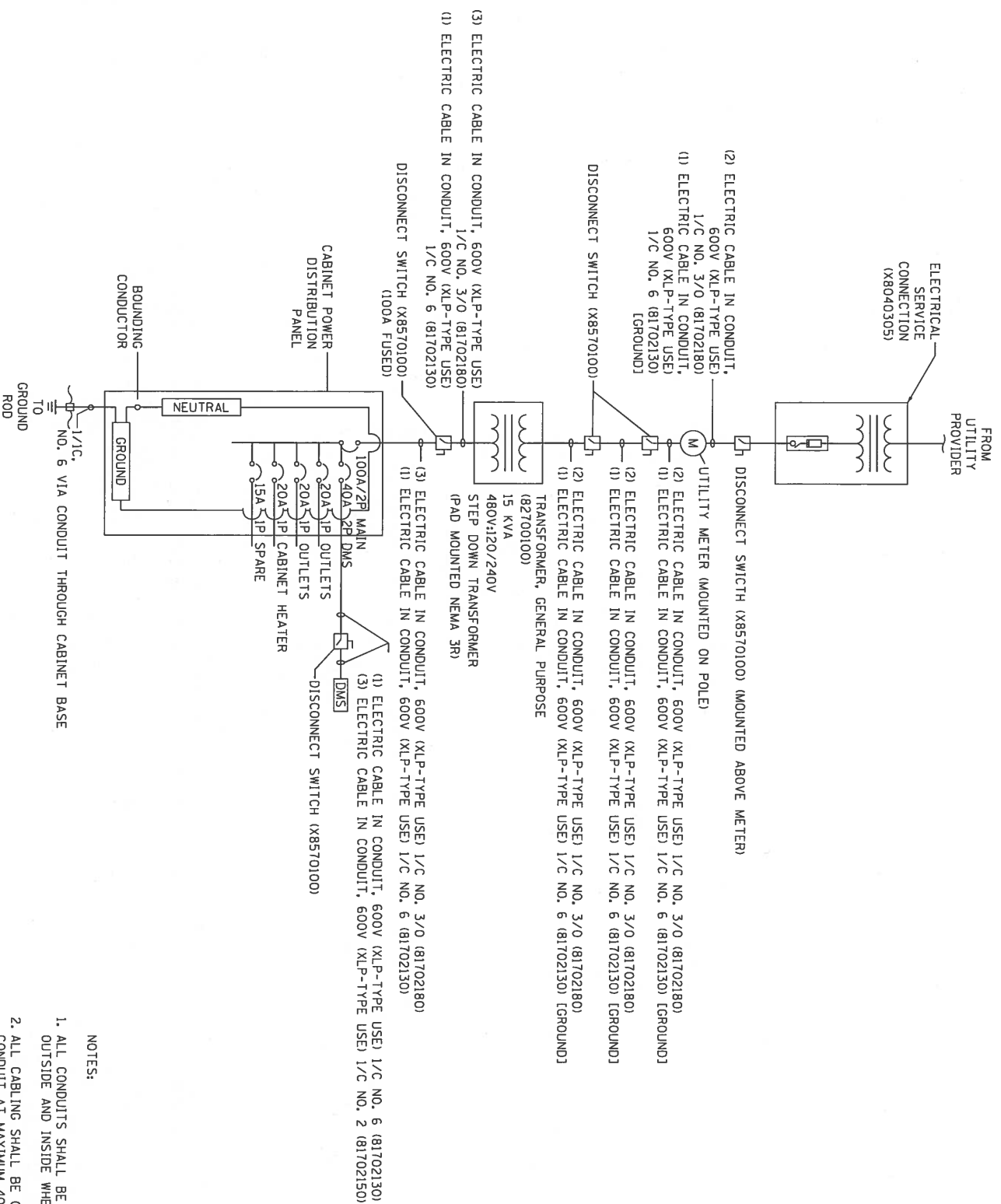
REVISIONS
REVISION NO. DATE BY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
SHEET 2 OF 2 SHEETS STA. TO STA.

FFK Moen, LLC
Civil Engineering Design
COUNTY: JEFFERSON
SHEETS: 38
CONTRACT NO. 78337

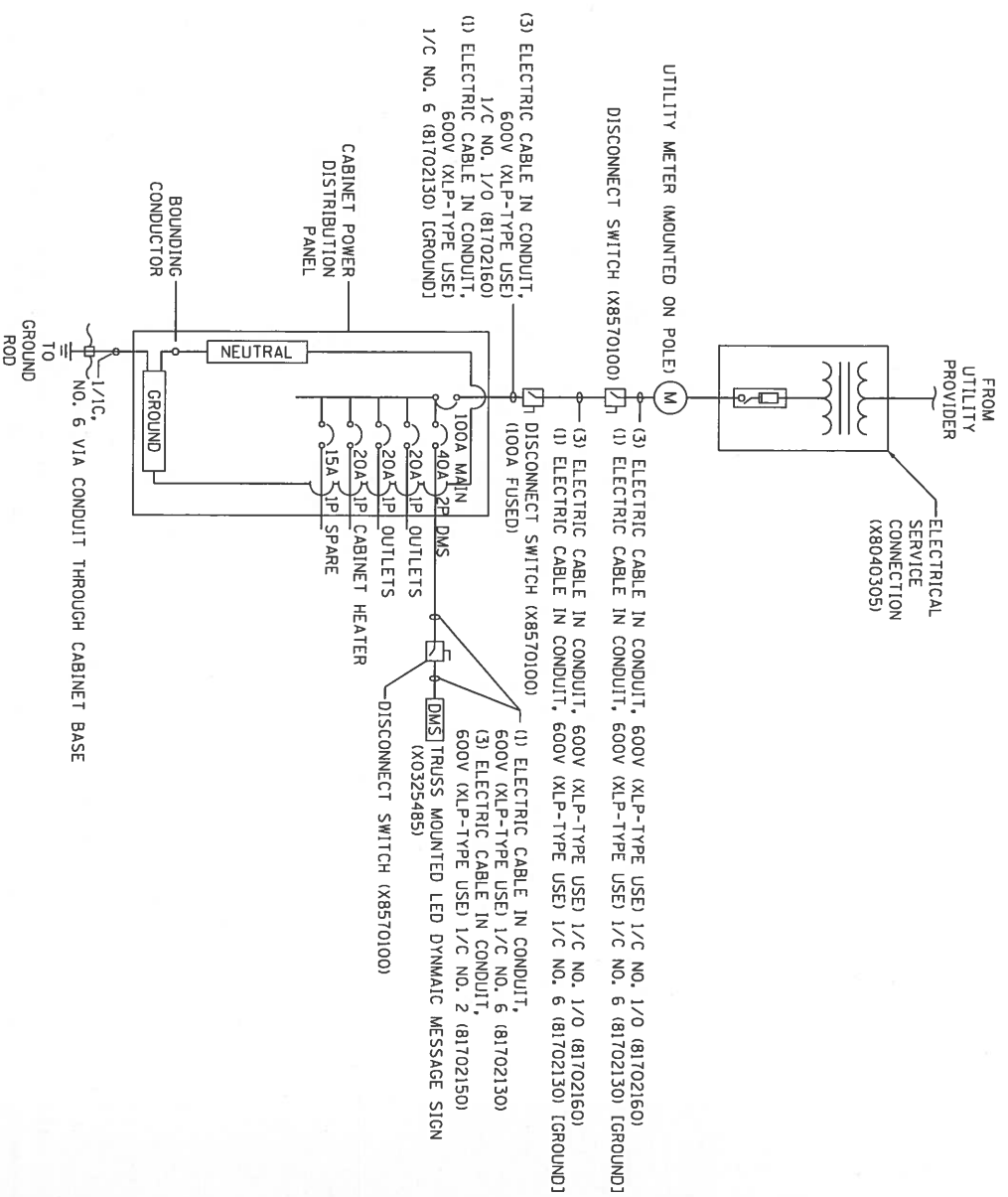
JEFFERSON COUNTY



NOTES:

1. ALL CONDUITS SHALL BE SEALED FROM THE OUTSIDE AND INSIDE WHEN ENTERING OR LEAVING.
2. ALL CABLING SHALL BE CONCEALED WITHIN CONDUIT AT MAXIMUM 40% FILL RATIO.
3. THIS ONE-LINE IS DIAGRAMMATIC AND NOT INTENDED TO SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS. THIS ONE-LINE IS SHOWN FOR CLARIFICATION OF CONNECTIONS AND CABLE TYPES.
4. CONTRACTOR SHALL PROVIDE NEMA 4X 100A RATED 2-POLE (EITHER 480V OR 240V) DISCONNECT. ALL LOCATIONS NOTED ON DRAWINGS.

WILLIAMSON COUNTY



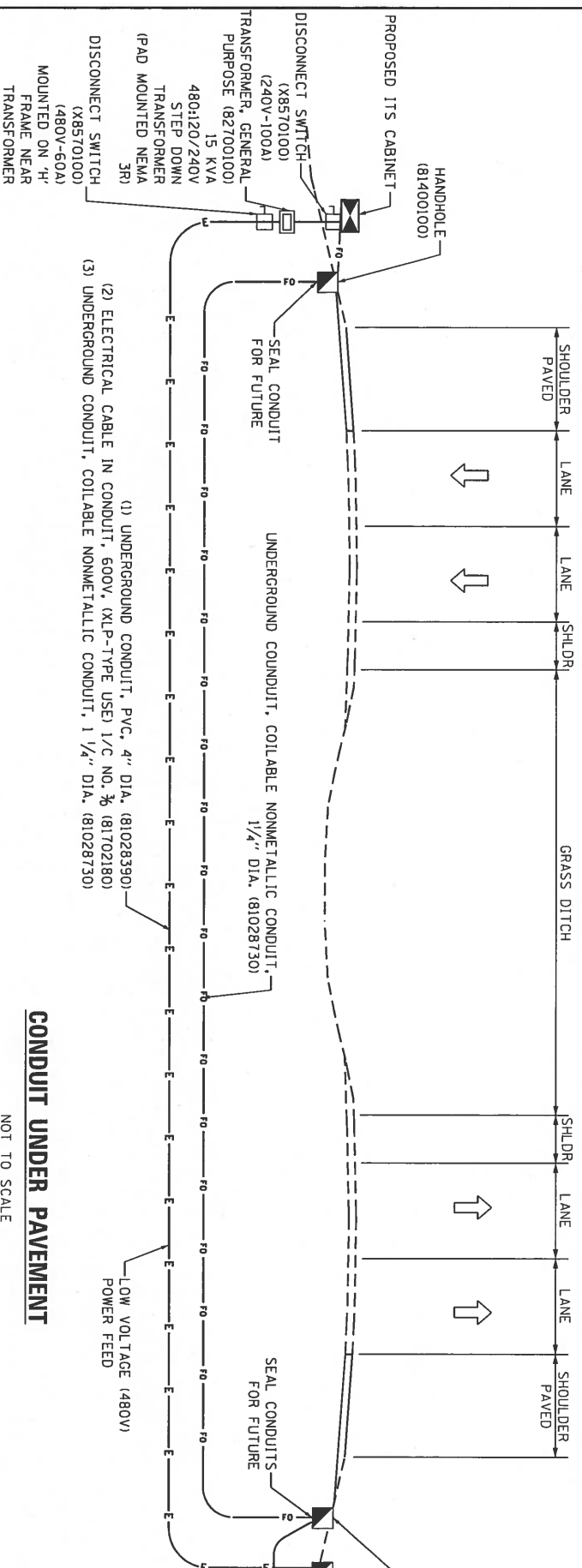
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PLT DATE = 3/16/2015			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

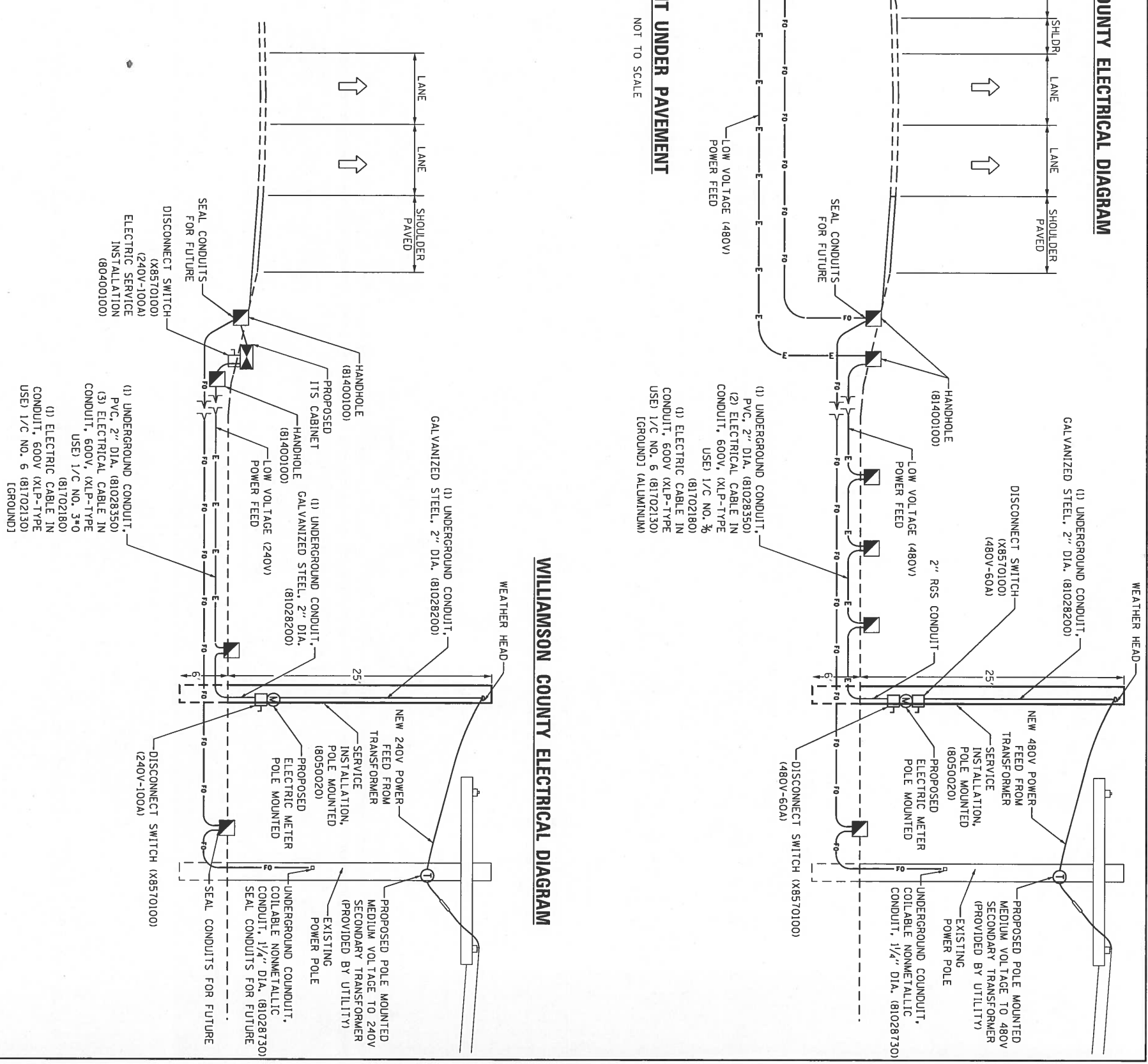
ITS DETAILS
SINGLE LINE DIAGRAM

SCALE: N/A	SHEET 1 OF 1 SHEETS STA.	TO STA.
E.A.T. DATE 1-57	SECTION 09 ITS SIGNING 2017-1	COUNTY JEFFERSON
		TOTAL SHEETS 38
		SHEET NO. 29
		CONTRACT NO. 78337
		ILLINOIS FED. AID PROJECT

JEFFERSON COUNTY ELECTRICAL DIAGRAM



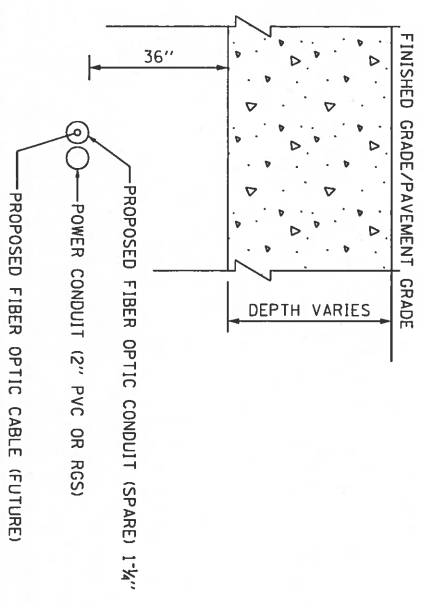
WILLIAMSON COUNTY ELECTRICAL DIAGRAM



NOTES:

1. NOMINAL 36" DEPTH WILL BE MAINTAINED EXCEPT WHERE CONDUIT TRANSITIONS INTO HANDHOLES, OR ON TO STRUCTURES.
2. NEW POWER POLE TO BE INSTALLED AT BOTH WILLIAMSON AND JEFFERSON COUNTY REFER TO AMEREN ELECTRICAL SERVICE MANUAL PAGES 600-7 AND 600-8 FOR REQUIREMENTS OF CUSTOMER OWNED SECONDARY METERING UNDERGROUND DISTRIBUTION INSTALLATION FOR POWER POLE INSTALLATION REQUIREMENTS.

BELOW GRADE CONDUIT



NOT TO SCALE

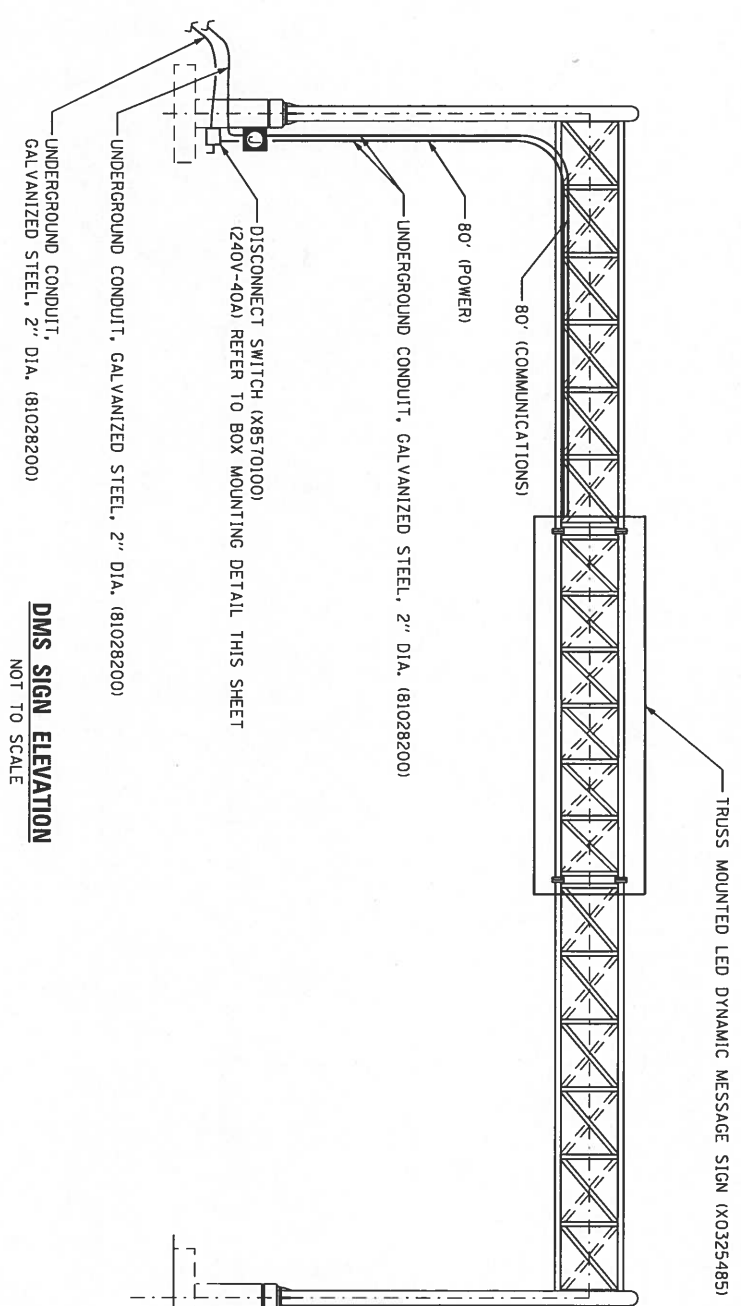
FILE NAME =
Jacking Plan Detail.dgn

USER NAME = jdb-dan	DESIGNED RAG	REVISION
PLT SCALE = 28.0025' / 1" =	DRAWN DTL	REVISION
PLT DATE = 3/16/2015	CHECKED KLG	REVISION
	DATE 03-16-15	REVISION

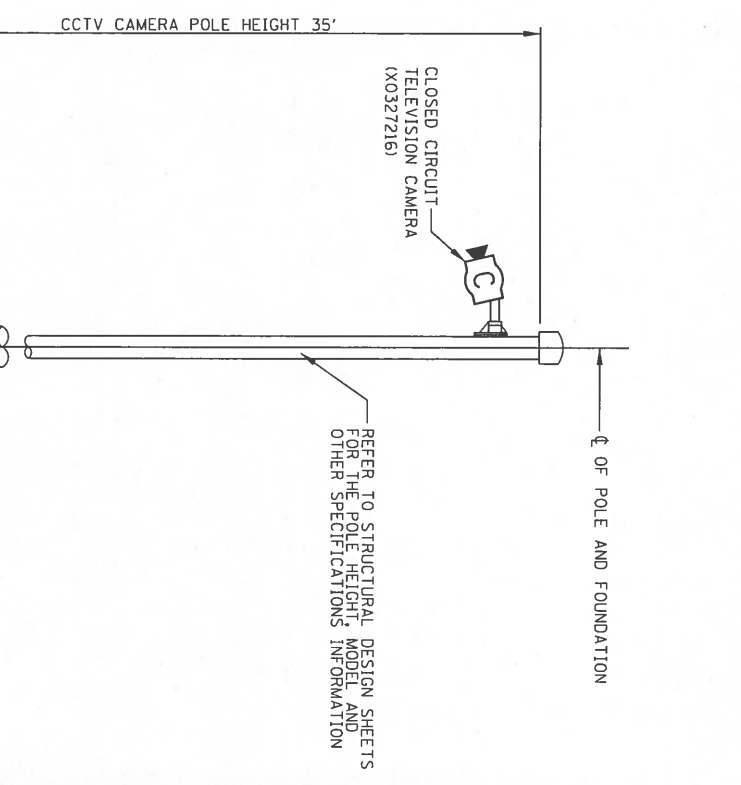
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: N.A.	SHEET 1 OF 1 SHEETS STA.
-------------	--------------------------

F.A.I. SECTION	COUNTY	TOTAL SHEET
1-57 09 ITS SIGNING 2017-1	JEFFERSON/WILLIAMSON	38 30
CONTRACT NO. 78337		
ILLINOIS FED. AID PROJECT		

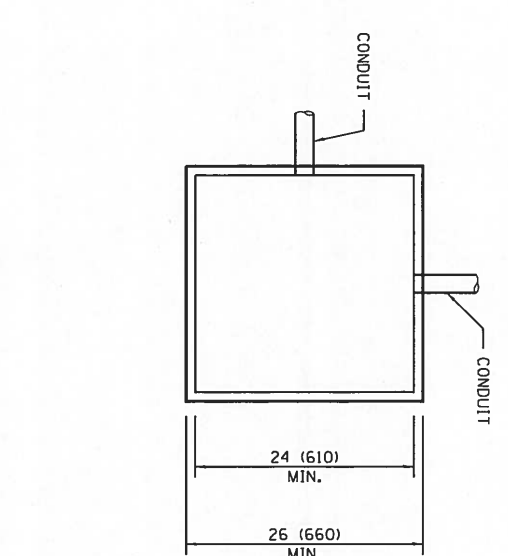


REFER TO STRUCTURAL DESIGN SHEETS FOR THE D.M.S. HEIGHT, MODEL AND OTHER SPECIFICATIONS INFORMATION

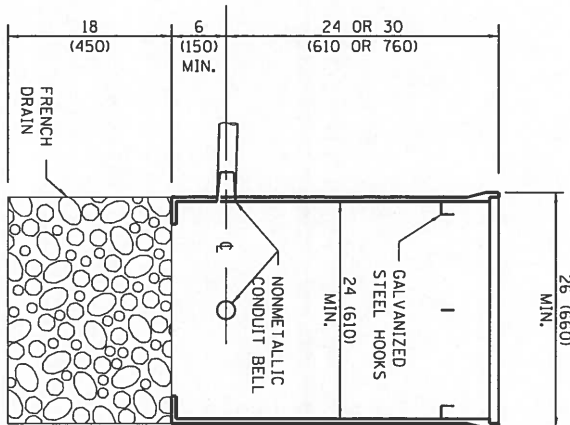


REFER TO STRUCTURAL DESIGN SHEETS FOR THE POLE HEIGHT, MODEL AND OTHER SPECIFICATIONS INFORMATION

DMS SIGN ELEVATION
NOT TO SCALE

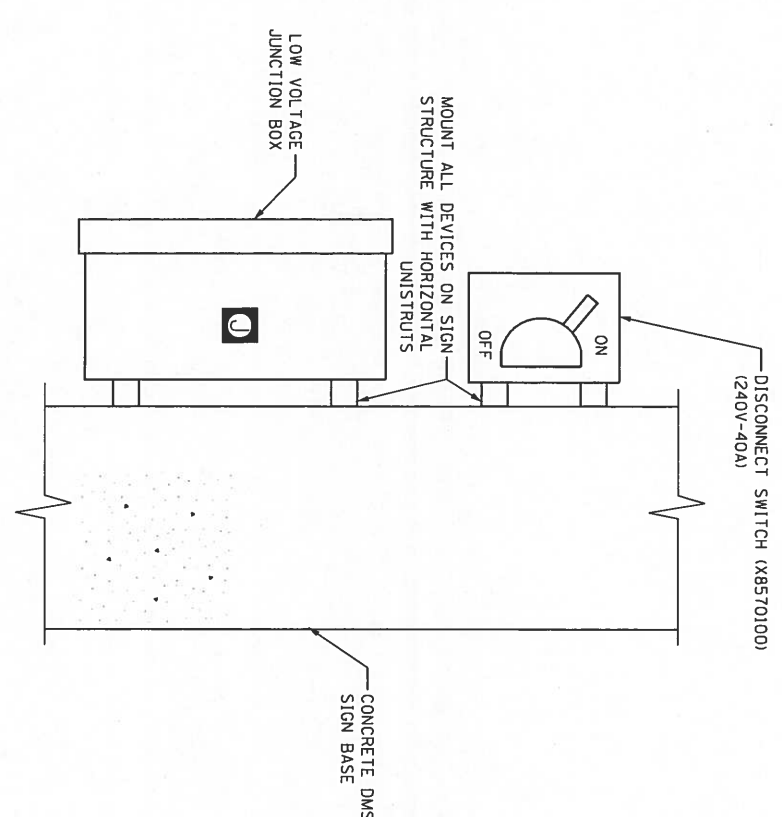


PLAN



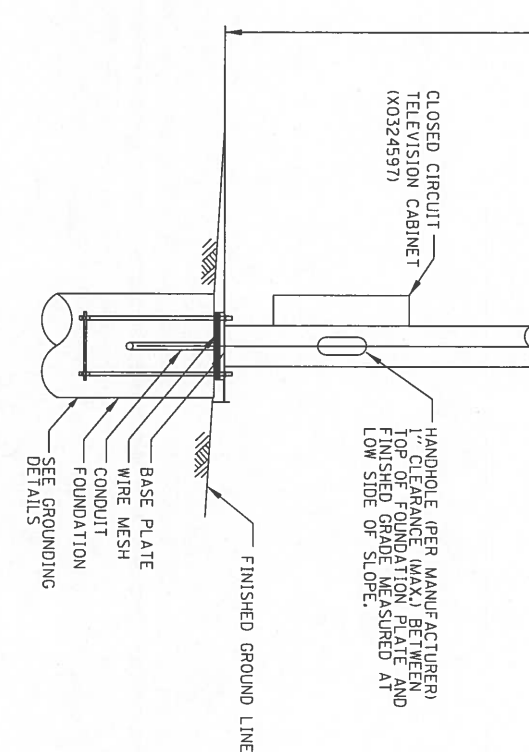
ELEVATION

HANDHOLE DETAIL
NOT TO SCALE

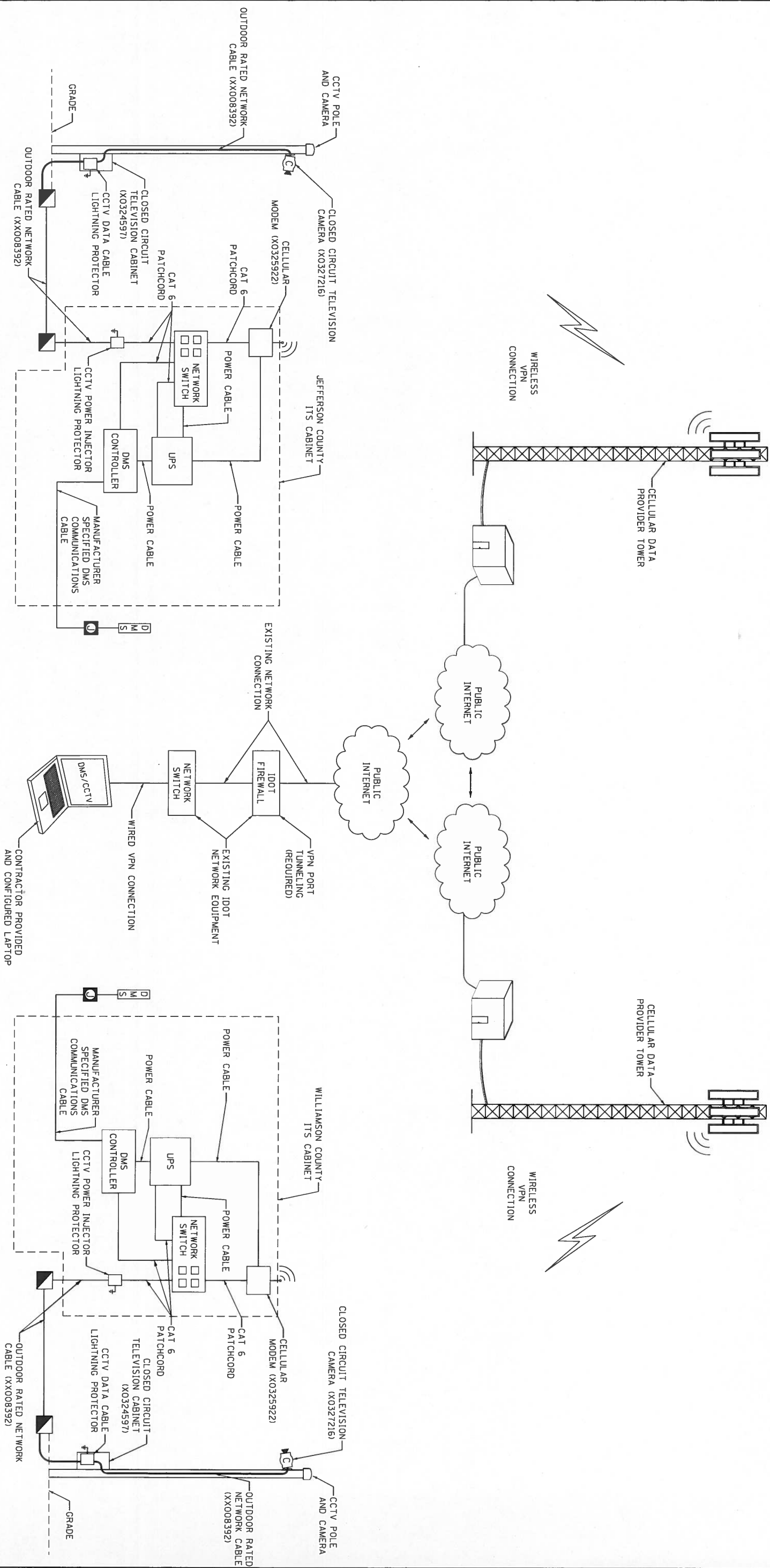


ELECTRICAL AND LOW VOLTAGE BOX MOUNTING DETAIL
NOT TO SCALE

CCTV POLE ELEVATION ON DRILLED SHAFT FOUNDATION DETAIL
NOT TO SCALE



FILE NAME * 31-115 DETAIL.S.dgn	USER NAME * jberdman	DESIGNED RAG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCALE: N.A.	SHEET 1	OF 1	SHEETS STA.	TO STA.	F.A.L. FILE I-57	SECTION 09 ITS SIGNING 2017-1	COUNTY JEFFERSON/ MILLAMON	TOTAL SHEET SHEETS NO. 38
PLT SCALE * 28.00x24.57 1/1 in.	PLT DATE * 3/16/2015	DRAWN DTL	REVISOR -	DATE 03-16-15						CONTRACT NO. 78337			



ITS COMMUNICATIONS NETWORK DIAGRAM
NOT TO SCALE

FILE NAME =	ITS comm network diagram.dgn
USER NAME =	jbraden
PLOT SCALE =	28.8025 ' / in.
PLOT DATE =	3/16/2015

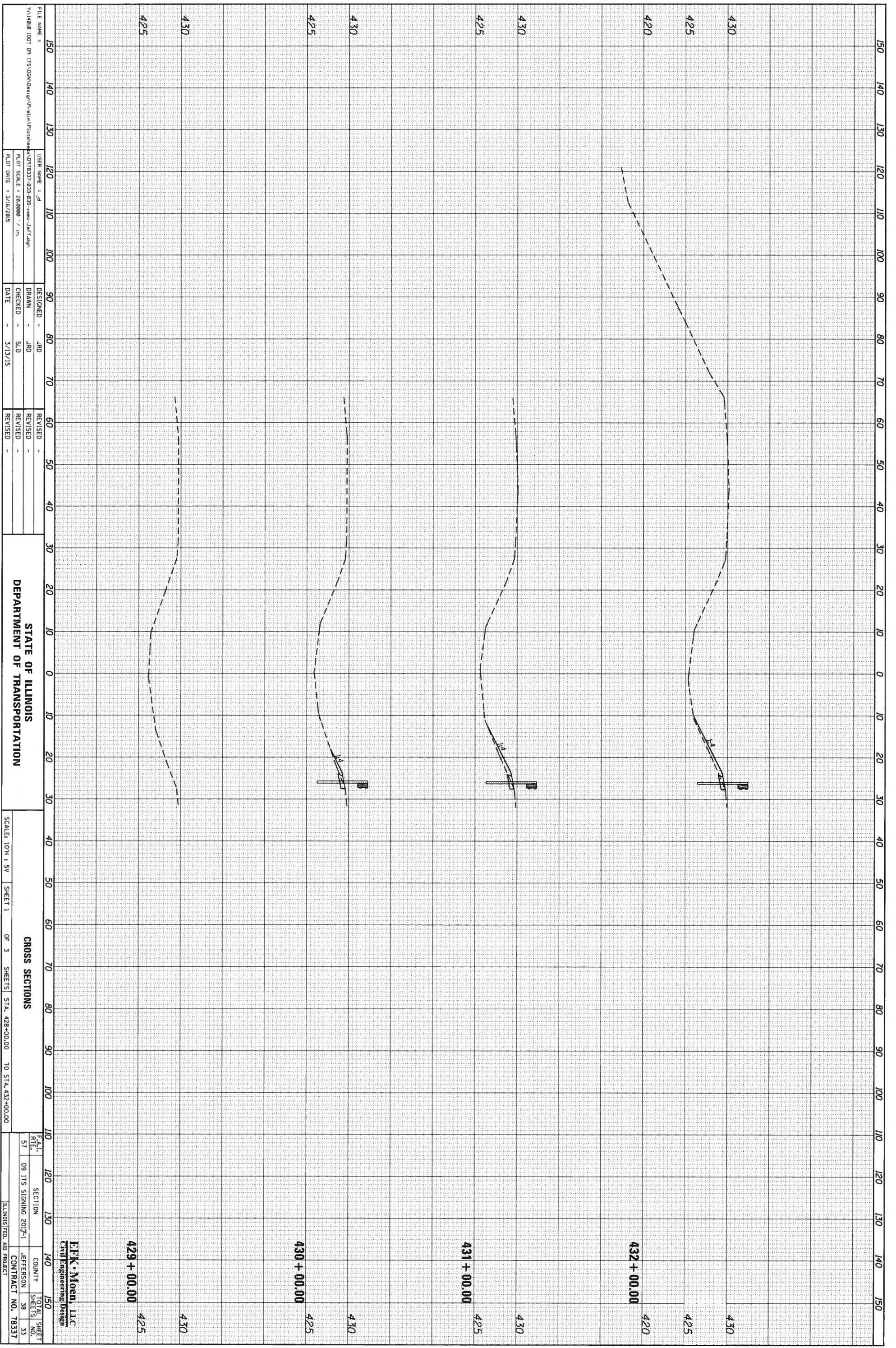
DESIGNED	RAAG
DRAWN	DTL
CHECKED	KLG
DATE	03-16-15

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: N.A.	SHEET 1 OF 1 SHEETS STA. TO STA.		
ITS DETAILS			
COMMUNICATIONS NETWORK DIAGRAM			
E.A.L. RITE	SECTION	COUNTY	TOTAL SHEET NO.
1-57	09 ITS SIGNING 2017	JEFFERSON/ WILLIAMSON	38
		CONTRACT NO. 78337	32
		ILLINOIS FED. AID PROJECT	

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		



FILE NAME :
 USER NAME : Jd
 DESIGNED : JRO
 DRAWN : JRO
 CHECKED : SLD
 DATE : 3/13/15
 REVISIONS:
 REVISIONS :
 REVISIONS :
 REVISIONS :

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: 10' = 1" SV SHEET 1 OF 3 SHEETS STA. 428+00.00 TO STA. 432+00.00

CROSS SECTIONS

EFFK • Moen, LLC
 Civil Engineering Design

DATE: 09 ITS SIGNING 2017-1 JEFFERSON 38 33 CONTRACT NO. 78337 ILLINOIS FED. AID PROJECT

425 429 + 00.00 425

430 430 + 00.00 430

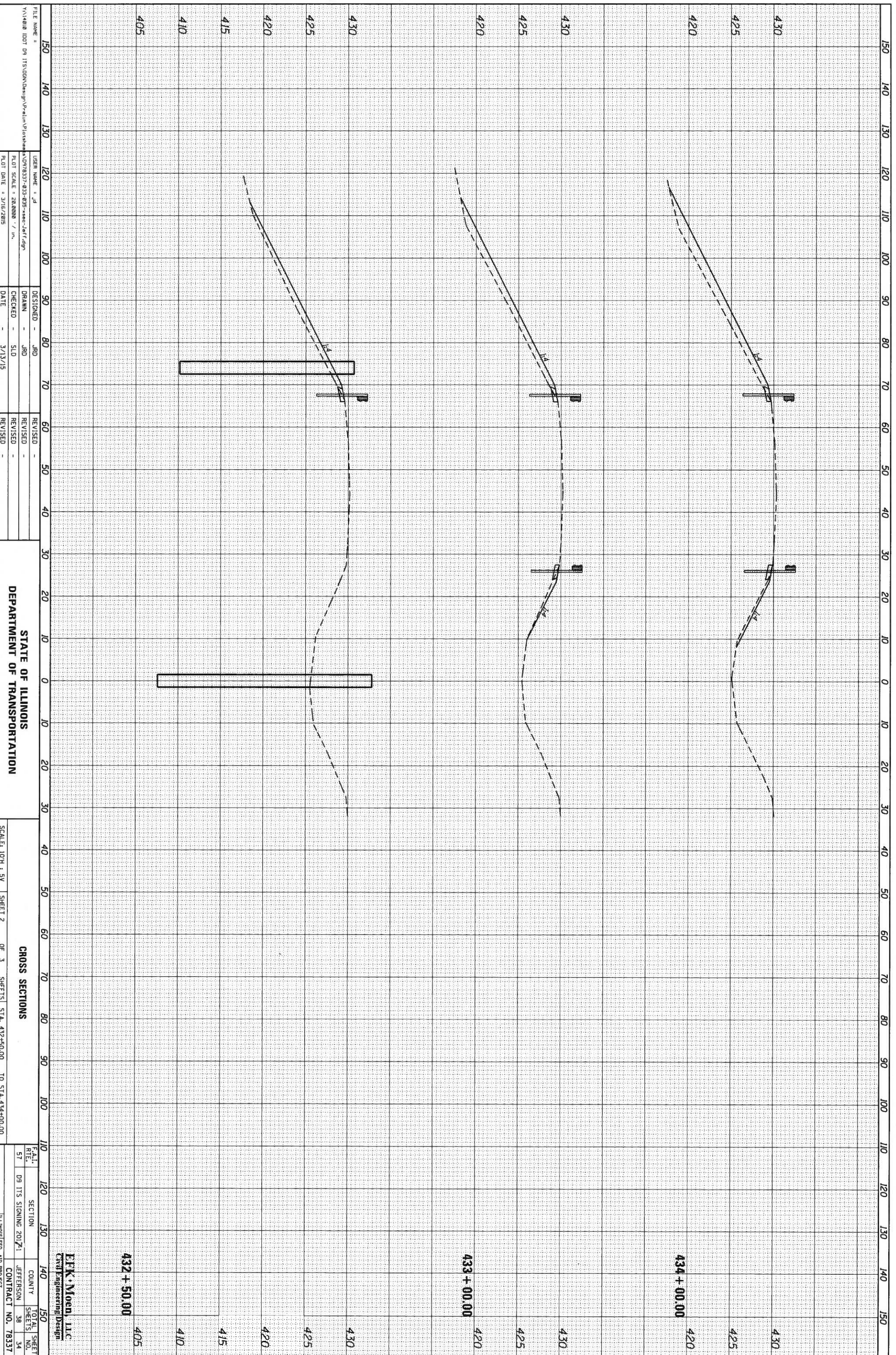
425 431 + 00.00 425

420 432 + 00.00 420

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		



FILE NAME :
 USER NAME : Jd
 DESIGNER : JRO
 DRAWN : JRO
 CHECKED : SLD
 DATE : 3/13/15
 REVISIONS:
 REVISIONS:
 REVISIONS:
 REVISIONS:
 REVISIONS:

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: 10'H = 5V
 SHEET 2 OF 3 SHEETS STA. 432+50.00 TO STA. 434+00.00

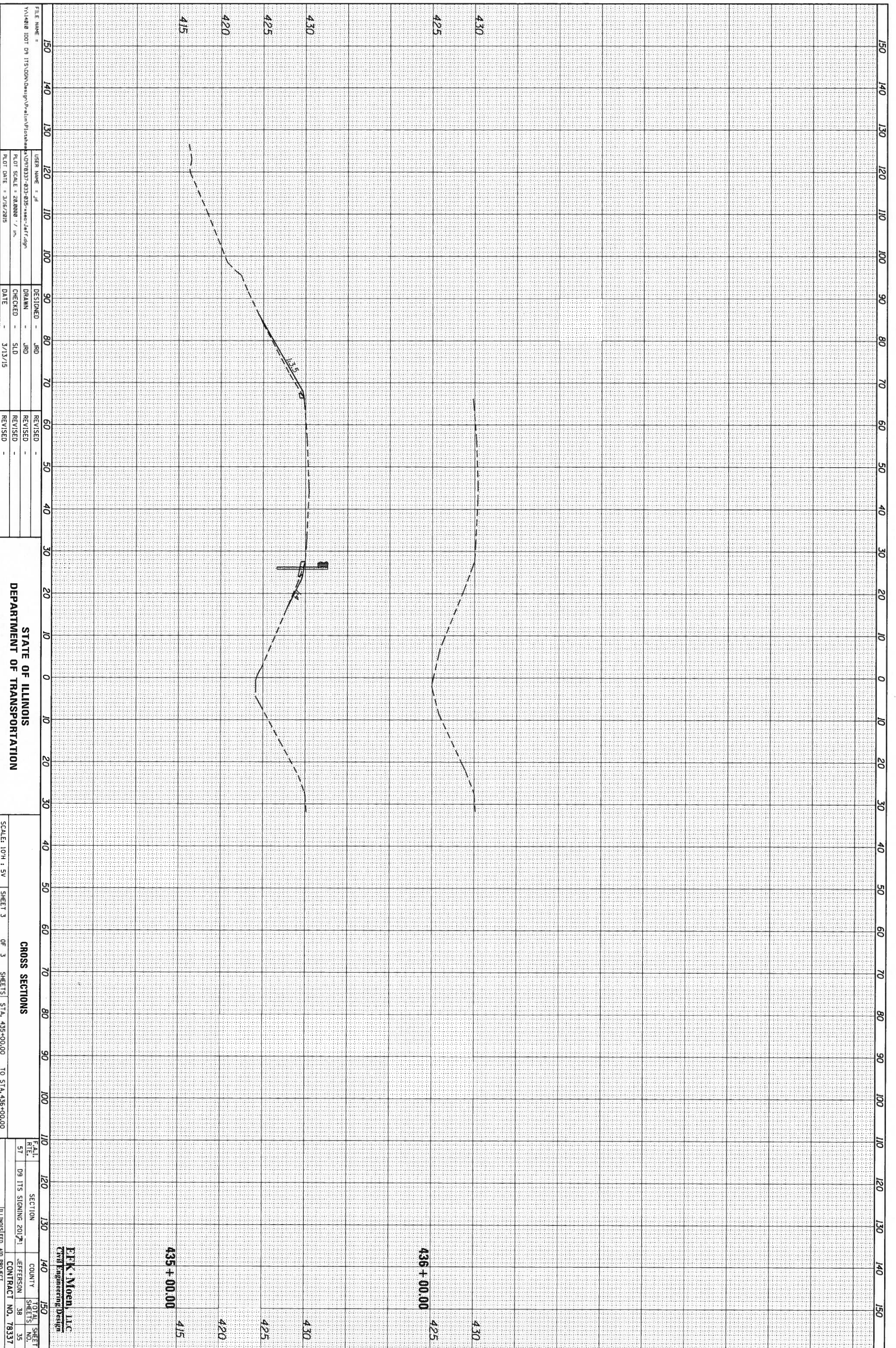
CROSS SECTIONS

PKL. 57
 SECTION 09 ITS SIGNING 2012-1
 COUNTY JEFFERSON
 TOTAL SHEET NO. 34
 CONTRACT NO. 78337
 ILLINOIS FED. AID PROJECT

EJK • Moen, LLC
 Civil Engineering Design

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NO.		

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NO.		



FILE NAME =
 USER NAME = jrl
 DESIGNED - JRO
 DRAWN - JRO
 CHECKED - SLD
 DATE - 3/13/15

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

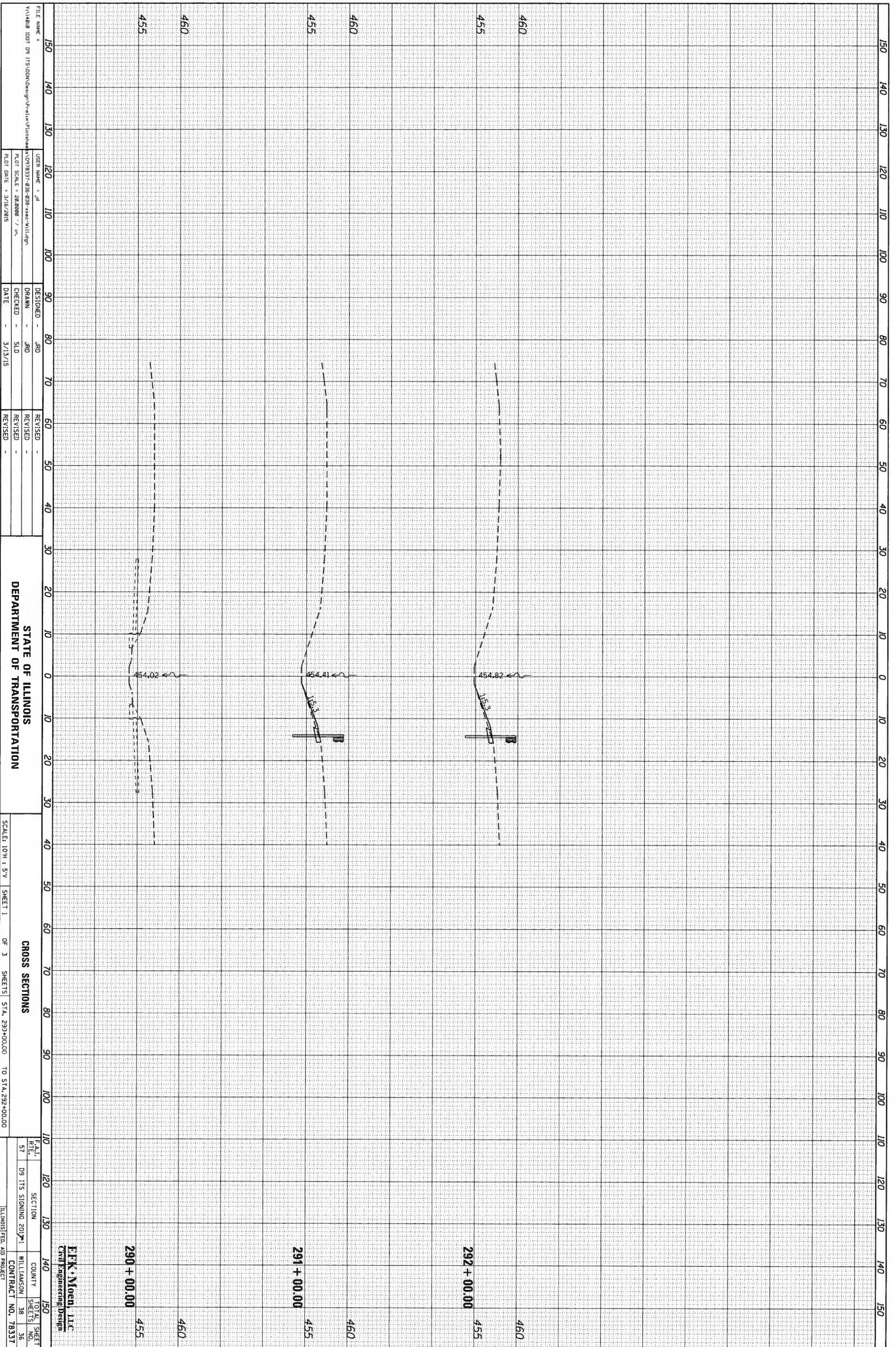
CROSS SECTIONS
 SHEET 3 OF 3
 STA. 435+00.00 TO STA. 436+00.00

SCALE: 10H = 5V
 E.F.L. SECTION COUNTY TOTAL SHEET
 57 09 IIS SIGNING 2011 JEFFERSON 38 38
 ILLINOIS FED. AID PROJECT CONTRACT NO. 78337

E.F.K. Mosen, LLC
 Civil Engineering Design

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		



FILE NAME =
 V:\14018 1001 09 ITS\DDM\Design\Plan\Plots\455-460-290-292.dwg
 USER NAME = jrd
 USER ID = 0978337-036-038-038-WILLIAMSON
 PLOT SCALE = 28.0000 / in.
 PLOT DATE = 3/16/2015

DESIGNED - JRD
 DRAWN - JRD
 CHECKED - SLJ
 DATE - 3/13/15

REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: 10H : 5V
 SHEET 1 OF 3 SHEETS STA. 290+00.00 TO STA. 292+00.00
 CROSS SECTIONS
 F.I.L. SECTION COUNTY TOTAL SHEET
 RITE 09 ITS SIGNING 2011 WILLIAMSON 38 36
 ILLINOIS FED. AID PROJECT CONTRACT NO. 78337

EFK Moen, LLC
 Civil Engineering Design

