

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PROPOSED
HIGHWAY PLANS**

VARIOUS ROUTES
SECTION D3 DYNAMIC MESSAGE SIGN 2016
DYNAMIC MESSAGE SIGN INSTALLATION
VARIOUS COUNTIES

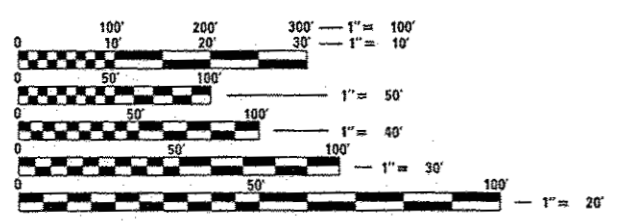
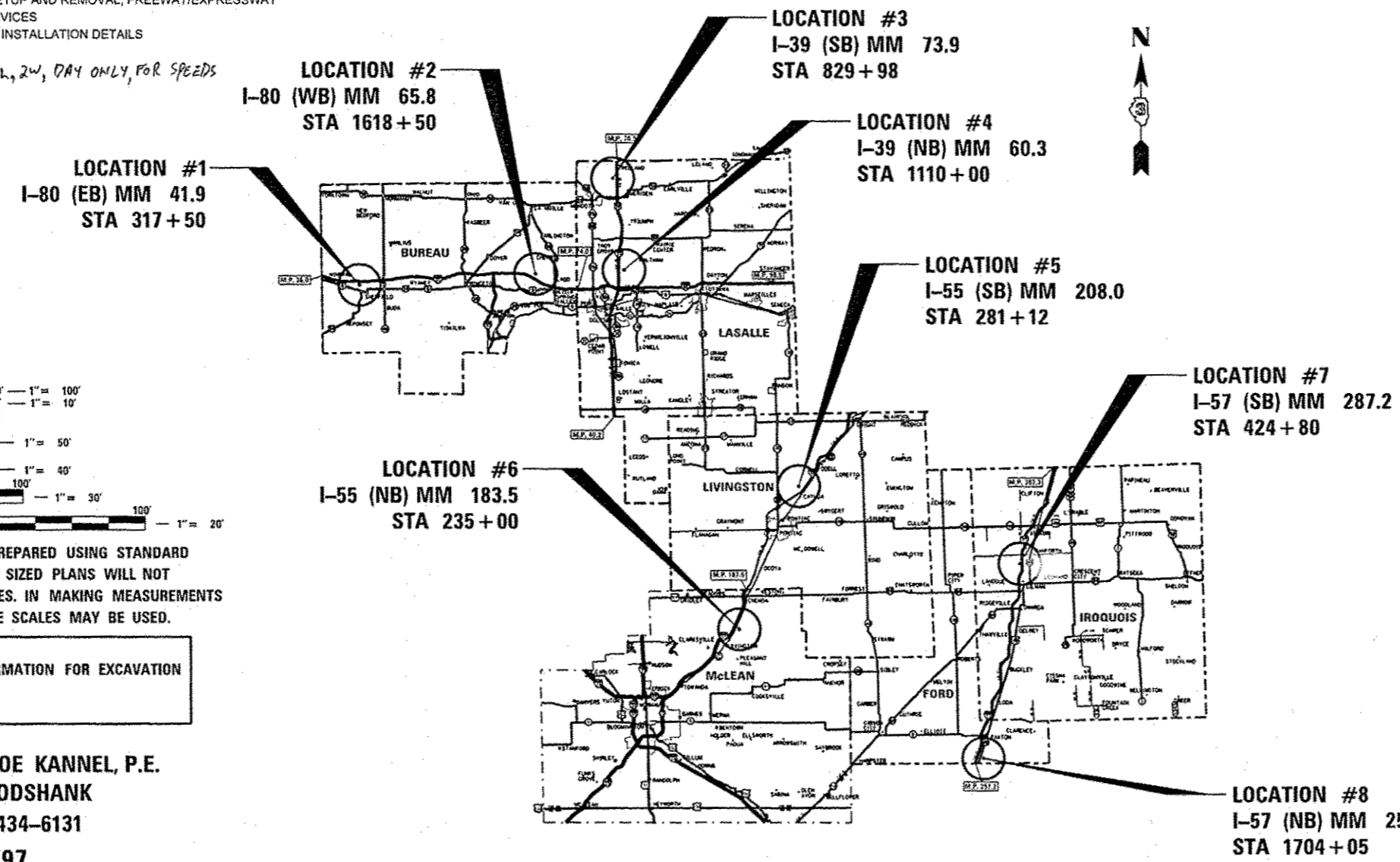
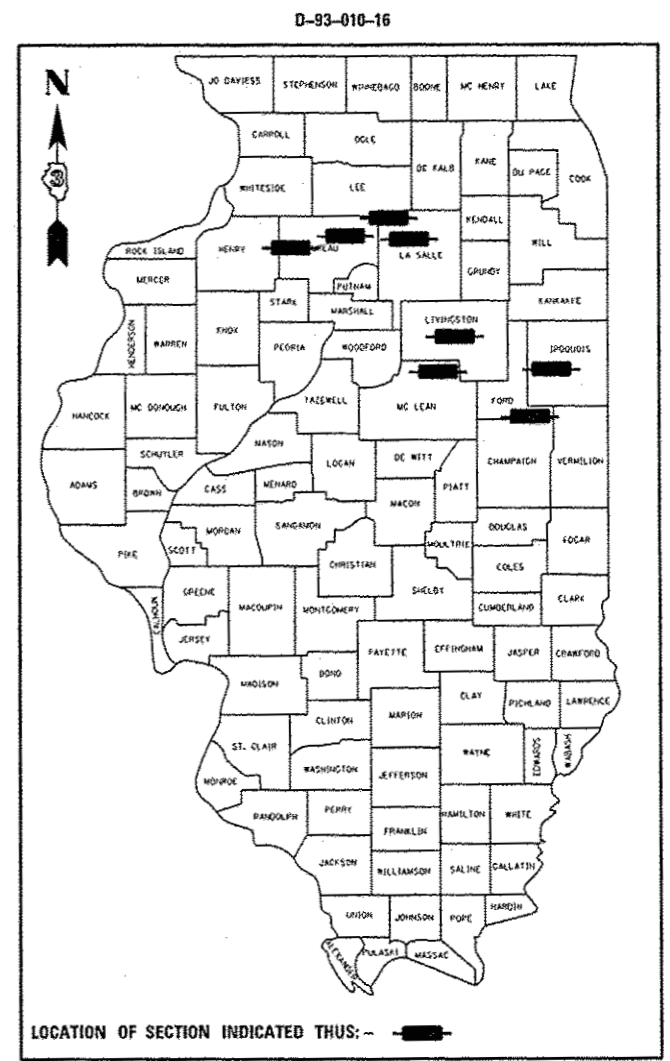
C-93-005-16

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D3 DMS 2016	VARIOUS	45	1
		ILLINOIS	CONTRACT NO. 66E97	

1. COVER SHEET
2. GENERAL NOTES
- 3 - 5. SUMMARY OF QUANTITIES
- 6 - 7. TYPICAL SECTIONS
8. STANDARD 701400 (SPECIAL)
9. LOCATION MAP
- 10 - 18. SITE PLANS AND DETAILS
19. IMPACT ATTENUATOR GRADING DETAILS
20. POLE MOUNTED EQUIPMENT CABINET, TYPE B
- 21 - 33. DMS SIGN TRUSS DETAILS
- 34 - 37. SOIL BORING LOGS
- 38 - 45. CROSS SECTIONS

STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 542001-06 CONCRETE END SECTIONS FOR PIPE CULVERTS
15" (375 mm) THRU 84" (2100 mm) DIAMETER
- 542011-02 CONCRETE END SECTIONS FOR ELLIPTICAL PIPE CULVERTS 15" (375mm) THRU
72" (1800 mm) EQUIVALENT DIAMETER
- 542301-03 PRECAST REINFORCED CONCRETE FLARED END SECTION
- 542401-02 METAL END SECTION FOR PIPE CULVERTS
- 630001-11 STEEL PLATE BEAM GUARDRAIL
- 630301-07 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 631011-10 TRAFFIC BARRIER TERMINAL, TYPE 2
- 643001-02 SAND MODULE IMPACT ATTENUATORS
- 701101-05 OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM
PAVEMENT EDGE
- 701106-02 OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
- 701406-11 LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
- 701428-01 TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY/EXPRESSWAY
- 701901-06 TRAFFIC CONTROL DEVICES
- 805001-01 ELECTRICAL SERVICE INSTALLATION DETAILS
- 814006-02 DOUBLE HANDHOLES
- 701201-04 *LANE CLOSURE, 2h, 2w, DAY ONLY, FOR SPEEDS
≥ 45 MPH*



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: JOE KANNEL, P.E.
UNIT CHIEF: RON WOODSHANK
DISTRICT NO. 3 (815) 434-6131
CONTRACT NO. 66E97

FUNCTIONAL CLASSIFICATION
RURAL INTERSTATE (2015 ADT)

FAI 80 (I-80)	FAI 39 (I-39)	FAP 55 (I-55)	FAI 57 (I-57)
ADT 21050	ADT 18750	ADT 22150	ADT 17350
P.V. 53.50%	P.V. 55.14%	P.V. 70.89%	P.V. 65.20%
S.U. 7.31%	S.U. 9.93%	S.U. 4.69%	S.U. 5.12%
M.U. 39.19%	M.U. 34.93%	M.U. 24.15%	M.U. 29.68%

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED *March 30 2017*

[Signature]
REGIONAL ENGINEER

May 12 2017
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

May 12 2017
[Signature]
DIRECTOR OF PROGRAM DEVELOPMENT

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL NOTES

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

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE "JULIE" NUMBER IS 1-800-892-0123. A MINIMUM OF FORTY-EIGHT (48) HOURS ADVANCE NOTICE IS REQUIRED.

THE LOCATION OF ALL UTILITIES AND PRIVATELY OWNED FACILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE INSTALLATION OF ANY COMPONENTS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES AT HIS/HER OWN EXPENSE IF REQUIRED. THE CONTRACTOR SHALL ALSO BE LIABLE FOR ANY DAMAGE TO IDOT FACILITIES RESULTING FROM INACCURATE LOCATING.

THE COMMUNICATION VAULT SHALL BE CONSTRUCTED SO THAT THE TOP OF THE FRAME WILL BE FLUSH WITH THE SURFACE OF THE MEDIAN, SIDEWALK, OR GROUND LINE.

POTHOLING TO LOCATE EXISTING UNDERGROUND UTILITIES SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR THE UNDERGROUND CONDUIT PAY ITEMS.

NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 2 FT. MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES AND STRUCTURES.

THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THIS COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES FOR THE CONDUITS.

REINFORCEMENT BARS SHALL BE EPOXY COATED

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

BEFORE ORDERING PIPE CULVERTS OR PIPE DRAINS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.

FOR STABILIZATION, ALL TYPE III BARRICADES WILL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.

ALL EXCAVATED MATERIAL, WHICH INCLUDES DIGGING OR GRADING OF ANY SOIL OR FILL MATERIAL, WITH THE EXCEPTION OF AGGREGATE FILLS, MUST BE INCORPORATED WITHIN THE IDOT RIGHT OF WAY DUE TO ENVIRONMENTAL DOCUMENTATION REQUIREMENTS.

COMMITMENTS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE
AS BUILT INFORMATION

SUPERVISING CONSTRUCTION FIELD ENGINEER

RESIDENT ENGINEER / TECHNICIAN

START & END DATES
OF CONSTRUCTION:

INSPECTORS:

DATE:

3/29/2017

PREPARED BY:

David Beach (copy)

DISTRICT STUDIES & PLANS ENGINEER

EXAMINED BY:

Joseph C. Wickman

DISTRICT CONSTRUCTION ENGINEER

Michael A. Stolt

DISTRICT MATERIALS ENGINEER

Tom Hagan

DISTRICT OPERATIONS ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

FILE NAME : p:\11\084810\INTEG\Illinois.gov\FWIDOT\Documents\IDOT Offices\District 3\Projects\0366\DRAWING\0366\RW\shtr-details.dgn	USER NAME : woodshankr1	DESIGNED - RW	REVISED -	SCALE: SHEET 1 OF 1 SHEETS STA. 317+50 TO STA.	ILLINOIS FED. AID PROJECT
PLOT SCALE = 100.0000 / 1 in.	CHECKED - EP	REVISED -	REVISED -		
PLOT DATE = 2/21/2017	DATE - 2/2/2017	REVISED -	REVISED -		
				F.A.I. RTE. SECTION COUNTY TOTAL SHEET NO.	
				VAR D3 DMS 2016 VARIOUS 45 2	CONTRACT NO. 66E97

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE						
				ITS 100% STATE	ITS 100% STATE	ITS 100% STATE	ITS 100% STATE	ITS 100% STATE	ITS 100% STATE	
				MINOR STRUCTURES	MINOR STRUCTURES	MINOR STRUCTURES	MINOR STRUCTURES	MINOR STRUCTURES	MINOR STRUCTURES	
				0004	0004	0004	0004	0004	0004	
				RURAL BUREAU CO.	RURAL FORD CO.	RURAL IROUOIS CO.	RURAL LASALLE CO.	RURAL LIVINGSTON CO.	RURAL MCLEAN CO.	
20200600	EXCAVATING AND GRADING EXISTING SHOULDER	UNIT	6	2	2	2				
20400800	FURNISHED EXCAVATION	CU YD	292	100			110	45	37	
54200220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	90	90						
54213450	END SECTIONS 15"	EACH	2	2						
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	212.5	75	137.5					
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1	1						
63200310	GUARDRAIL REMOVAL	FOOT	25	25						
64300450	IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3	EACH	5	1			2	1	1	
64301090	ATTENUATOR BASE	SO YD	47.5	9.5			19	9.5	9.5	
67100100	MOBILIZATION	LSUM	1	0.25	0.13	0.12	0.25	0.13	0.12	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	LSUM	1						1	
72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	1	1						
73301805	OVERHEAD SIGN STRUCTURE - BUTTERFLY, TYPE III-F-A	FOOT	309.4	77.3	38.7	38.7	77.3	38.7	38.7	
73301900	OVERHEAD SIGN STRUCTURE WALKWAY - BUTTERFLY, TYPE A	FOOT	50.6	12.7	6.3	6.3	12.7	6.3	6.3	

FILE NAME :	USER NAME : woodhank1	DESIGNED - RW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
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* SPECIALTY ITEM

REV

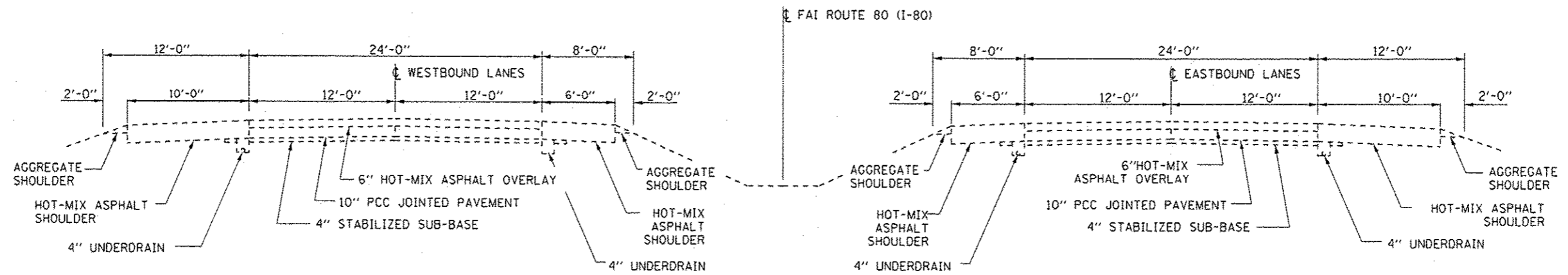
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				MINOR STRUCTURES	MINOR STRUCTURES	MINOR STRUCTURES	MINOR STRUCTURES	MINOR STRUCTURES	MINOR STRUCTURES
				0004	0004	0004	0004	0004	0004
				RURAL	RURAL	RURAL	RURAL	RURAL	RURAL
BUREAU CO.	FORD CO.	IROQUOIS CO.	LASALLE CO.	LIVINGSTON CO.	MCLEAN CO.				
73400200	DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	78.2	20.6	9.5	9.3	19.5	9.6	9.7
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	6	2	4				
80400100	ELECTRIC SERVICE INSTALLATION	EACH	8	2	1	1	2	1	1
81028190	UNDERGROUND CONDUIT, GALVANIZED STEEL, 1 1/2" DIA.	FOOT	295	90	15	15	90	50	35
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	2360	430	350	240	865	440	35
81702400	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 2	FOOT	2715	480	375	265	915	530	150
X0323920	POLE MOUNTED EQUIPMENT CABINET, TYPE B	EACH	8	2	1	1	2	1	1
X0325379	DIRECTIONAL BORING	FOOT	285		65	65		65	90
X0325485	TRUSS MOUNTED LED DYNAMIC MESSAGE SIGN	EACH	8	2	1	1	2	1	1
X0325922	CELLULAR MODEM	EACH	8	2	1	1	2	1	1
X0325941	ACCESS LADDER	EACH	8	2	1	1	2	1	1
X0326905	CLOSED CIRCUIT TELEVISION DOME CAMERA, IP BASED	EACH	8	2	1	1	2	1	1
* X6330115	TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL, REMOVE AND RELOCATE	EACH	1		1				
X7010600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406, SPECIAL	LSUM	1	0.3	0.1	0.1	0.3	0.1	0.1

FILE NAME :	USER NAME :	DESIGNED - RW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
\\1084E810HTEG\illinois.gov\PHD07\No	u\anta\DOT Offices\District 3\Projects\036	DRAWN Data\0366 RW\ht-detail.dgn	REVISED -						VAR	D3 OMS 2016	VARIOUS	45	4
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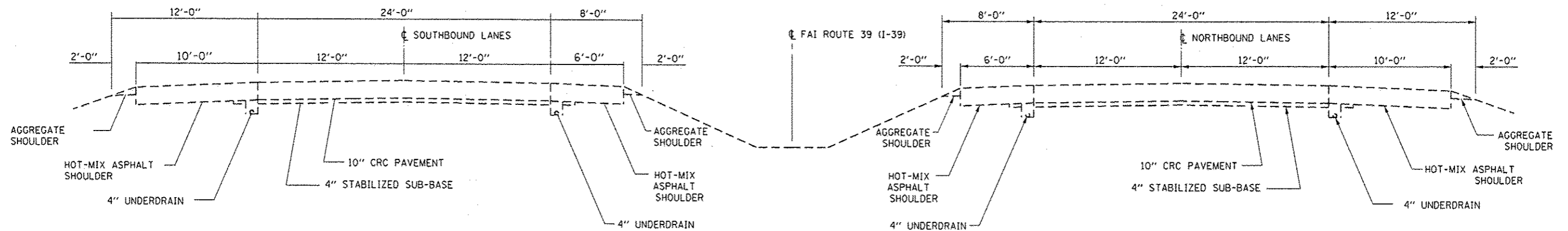
* SPECIALTY ITEMS

REV

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
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				✓0004	✓0004	✓0004	✓0004	✓0004	✓0004
				✓RURAL	✓RURAL	✓RURAL	✓RURAL	✓RURAL	✓RURAL
				BUREAU CO.	FORD CO.	IROQUOIS CO.	LASALLE CO.	LIVINGSTON CO.	MCLEAN CO.
Z0033052	COMMUNICATIONS VAULT	EACH	8	2	1	1	2	1	1

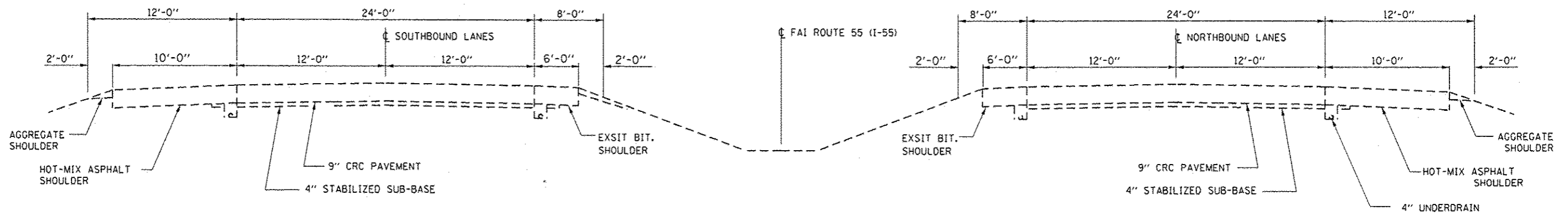


TYPICAL SECTION
FAI ROUTE 80 (I-80)

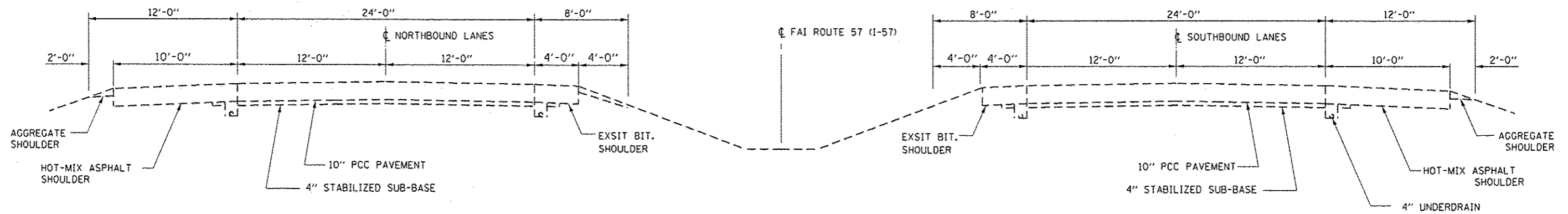


TYPICAL SECTION
FAI ROUTE 39 (I-39)

FILE NAME =	USER NAME = woodshank-l	DESIGNED - RW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 2/21/2017	DATE - 2/2/2017	REVISED -		ILLINOIS FED. AID PROJECT							

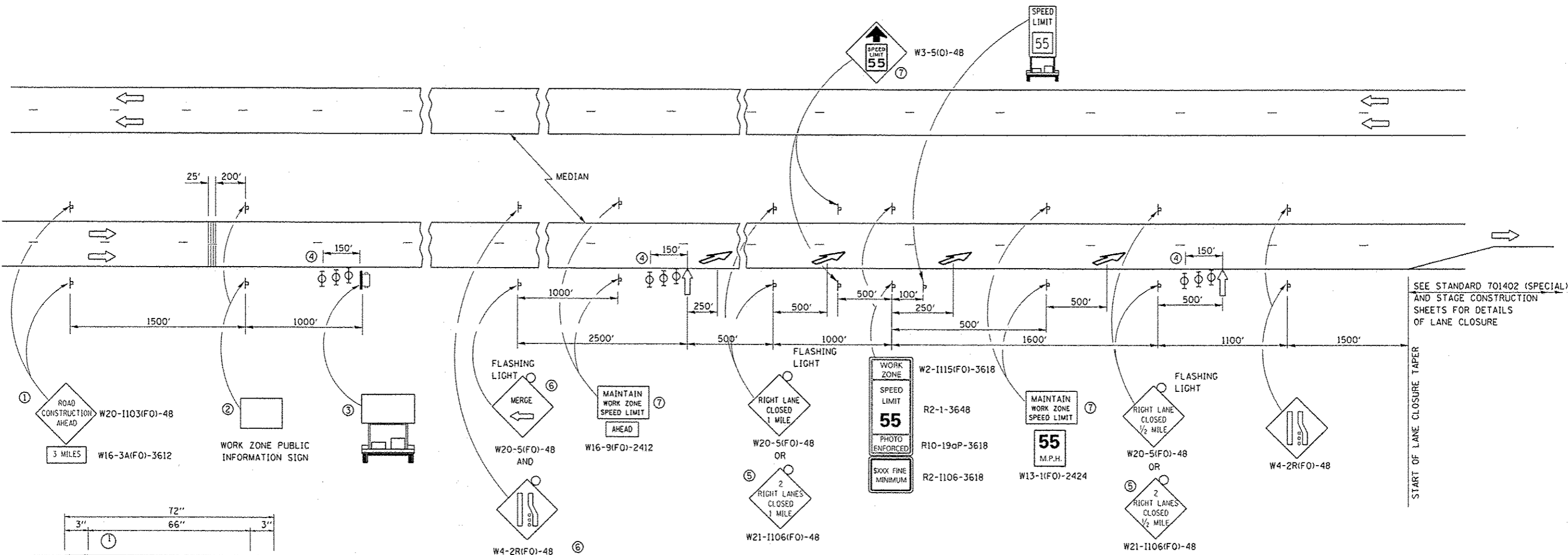


TYPICAL SECTION
FAI ROUTE 55 (I-55)

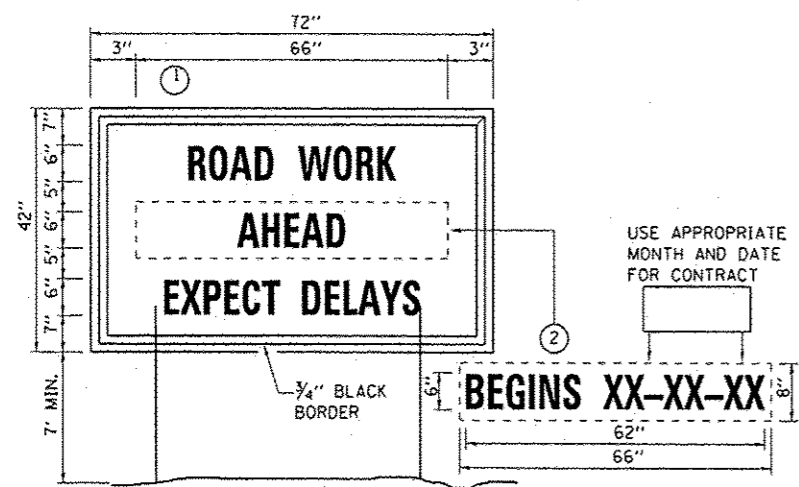


TYPICAL SECTION
FAI ROUTE 57 (I-57)

FILE NAME =	USER NAME = woodshenk1	DESIGNED - RW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
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	PLOT DATE = 2/21/2017	DATE - 2/2/2017	REVISED -		ILLINOIS FED. AID PROJECT									



SEE STANDARD 701402 (SPECIAL) AND STAGE CONSTRUCTION SHEETS FOR DETAILS OF LANE CLOSURE

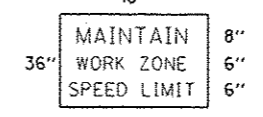


TEMPORARY INFORMATION SIGNING

- NOTES:**
1. USE 6" D BLACK LETTERING ON FLOURESENT ORANGE BACKGROUND.
 2. ERECT SIGNS AT LOCATIONS IN ADVANCE OF THE "ROAD CONSTRUCTION AHEAD" SIGNS AS DIRECTED BY THE ENGINEER.
 3. ERECT SIGN ① WITH INSTALLED PANEL ② A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE LANE CLOSURE.
 4. REMOVE PANEL ② ON THAT DATE.
 5. SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
 6. WILL BE PAID FOR PER SO FT AS "TEMPORARY INFORMATION SIGNING". EACH SIGN = 21 SO FT AND THE DATE PANEL ② WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.

- ① THE ROAD CONSTRUCTION AHEAD SIGN SHALL BE LOCATED 3 MILES IN ADVANCE OF THE PROJECT LIMITS.
- ② THE MESSAGE AND SIZE OF THE WORK ZONE PUBLIC INFORMATION SIGN SHALL BE AS SPECIFIED BY THE DEPARTMENT.
- ③ TO BE PLACED IN THE MEDIAN WHEN FEASIBLE. THE MESSAGE BOARD SHALL BE USED TO DISPLAY STATUS OF LANES WITHIN THE PROJECT. THE PRIMARY MESSAGES SHALL BE:
"RIGHT LANE CLOSED" / " x MILES AHEAD"
"LEFT LANE CLOSED" / " x MILES AHEAD"
"ALL LANES OPEN"
- ④ THREE, TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES AT 50' CENTERS.
- ⑤ THIS SIGN SHALL BE USED WHEN 2 LANES ARE CLOSED.
- ⑥ WHEN THE LEFT LANE IS CLOSED, SWITCH THESE TWO SIGNS AND THE DIRECTION OF THE MERGE ARROW.
- ⑦ THIS SIGN SHALL ONLY BE USED IF THE EXISTING SPEED LIMIT IS GREATER THAN 65 MPH.

⑦ 48"x36" FLUORESCENT ORANGE SIGN WITH BLACK LETTERS.



- ↑ ARROW BOARD
- ▭ PORTABLE CHANGEABLE MESSAGE SIGN
- ⊥ SIGN
- ⊕ TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT
- ↘ LANE DROP ARROW - SEE STANDARD 780001
- ▧ TEMPORARY RUMBLE STRIPS
- 🚚 SPEED DISPLAY TRAILER

GENERAL NOTE:

THIS STANDARD IS USED WHERE AT ANY TIME A LANE IS CLOSED ON A FREEWAY/EXPRESSWAY.

WHEN THE LEFT LANE IS CLOSED, LEFT LANE CLOSED SIGNS SHALL BE SUBSTITUTED FOR THE RIGHT LANE CLOSED SIGNS.

THE FIRST TWO SIGNS AND THE MESSAGE BOARD ARE STATIONARY. THE OTHER SIGNS AND ARROWBOARDS SHALL BE MOVED AS NECESSARY TO MAINTAIN THE REQUIRED DISTANCE FROM THE START OF THE LANE CLOSURE TAPER(S).

SEE SPECIAL PROVISIONS.

FILE NAME : p:\11\084E610\TEC\Illinois.gov\FW1001\Documents\1001\Office\District 3\Projects\036	USER NAME : woodshankel	DESIGNED - RW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STANDARD 701400 (SPECIAL)	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
		DRAWN Data\03666 RW\shd-details.dgn	REVISED -			VAR	D3 DMS 2016	VARIOUS	45	8		
		CHECKED - EP	REVISED -			SCALE:		SHEET NO.	OF	SHEETS	STA.	TO STA.
		DATE - 2/2/2017	REVISED -			FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		CONTRACT NO. 66E97		

PROPOSED
FY16
MESSAGE BOARDS

DMS SITE LOCATION #3
I-39 (SB) MILE MARKER 73.9
STA 829+98
UTILITY PROVIDER: COMED.
(LAT: 41.58449167, LONG: 89.06125)

DMS SITE LOCATION #2
I-80 (WB) MILE MARKER 65.8
STA 1618+50
UTILITY PROVIDER: AMEREN
(LAT: 41.39465, LONG: 89.29508056)

DMS SITE LOCATION #1
I-80 (EB) MILE MARKER 41.9
STA 317+50
UTILITY PROVIDER: CORNBELT ENERGY
(LAT: 41.38726944, LONG: 89.742563889)

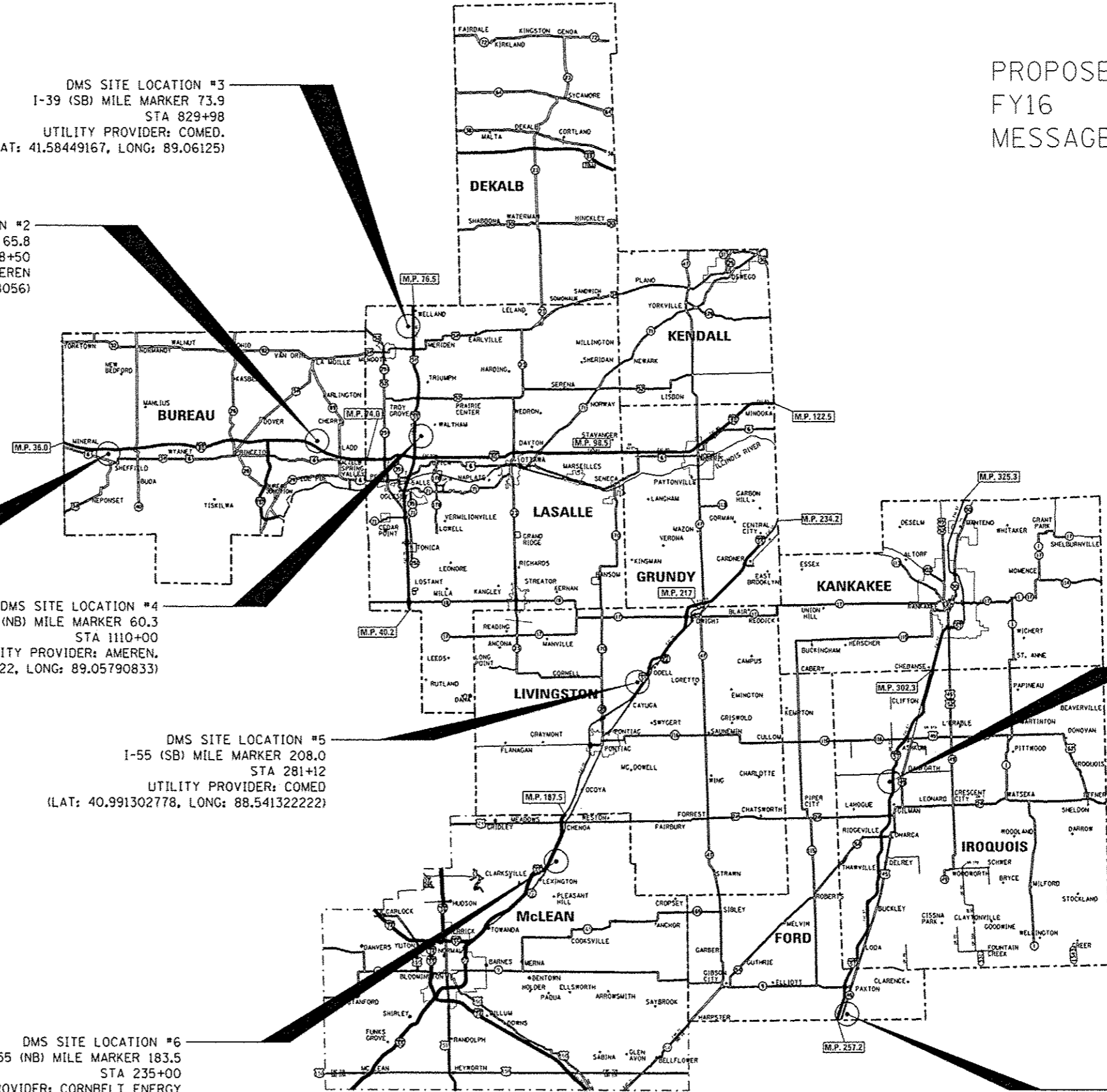
DMS SITE LOCATION #4
I-39 (NB) MILE MARKER 60.3
STA 1110+00
UTILITY PROVIDER: AMEREN.
(LAT: 41.390222, LONG: 89.05790833)

DMS SITE LOCATION #5
I-55 (SB) MILE MARKER 208.0
STA 281+12
UTILITY PROVIDER: COMED
(LAT: 40.991302778, LONG: 88.541322222)

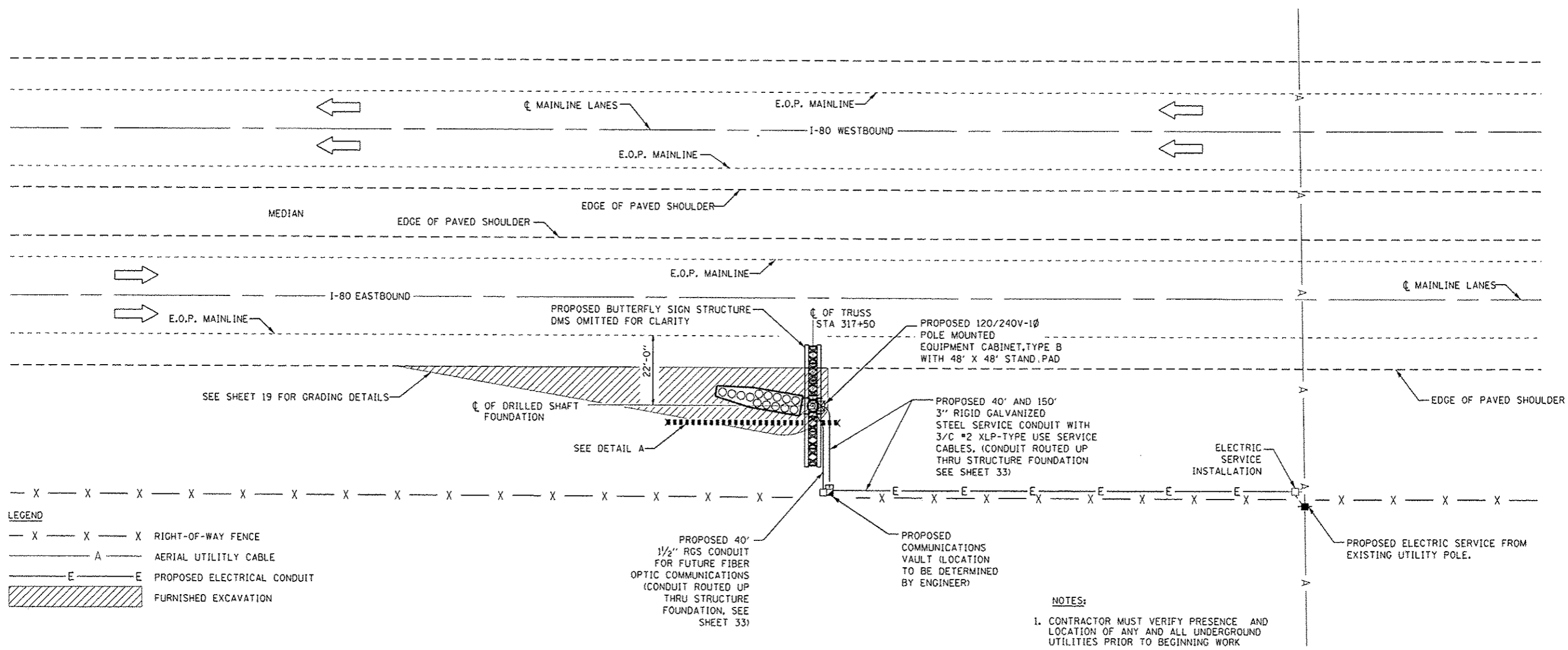
DMS SITE LOCATION #6
I-55 (NB) MILE MARKER 183.5
STA 235+00
UTILITY PROVIDER: CORNBELT ENERGY
(LAT: 40.697655556, LONG: 88.750761111)

DMS SITE LOCATION #7
I-57 (SB) MILE MARKER 287.2
STA 424+80
UTILITY PROVIDER: E.I.E.C.
(LAT: 40.810577778, LONG: 87.999088889)

DMS SITE LOCATION #8
I-57 (NB) MILE MARKER 258.1
STA 1704+05
UTILITY PROVIDER: AMEREN.
(LAT: 40.41473889, LONG: 88.122169444)



FILE NAME : p:\11884910\ITC\Illinois.gov\PM100T\Documents\100T\Office\District 3\Projects\036	USER NAME : woodshank-1	DESIGNED - RW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DYNAMIC MESSAGE SIGN LOCATION MAP			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Drawn Data\036\RW\shk-details.dgn		CHECKED - EP	REVISED -					VAR	D3 DMS 2016	VARIOUS	45	9
PLOT SCALE = 100,0000 1/ in.		DATE - 2/2/2017	REVISED -					SCALE: SHEET OF SHEETS STA. TO STA.			CONTRACT NO. 66E97	
PLOT DATE = 2/21/2017								ILLINOIS FED. AID PROJ. CT				

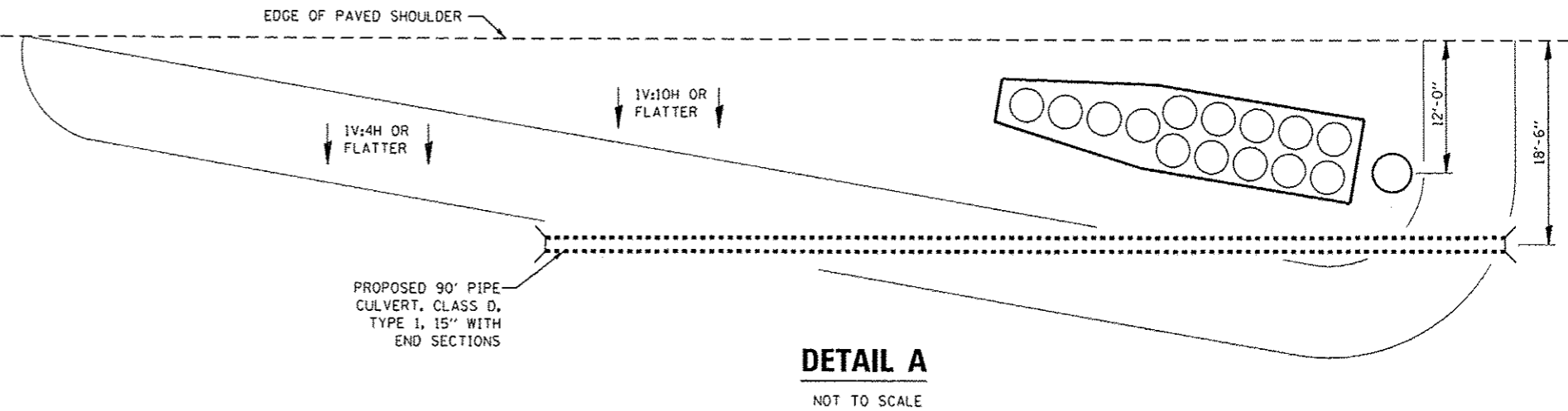


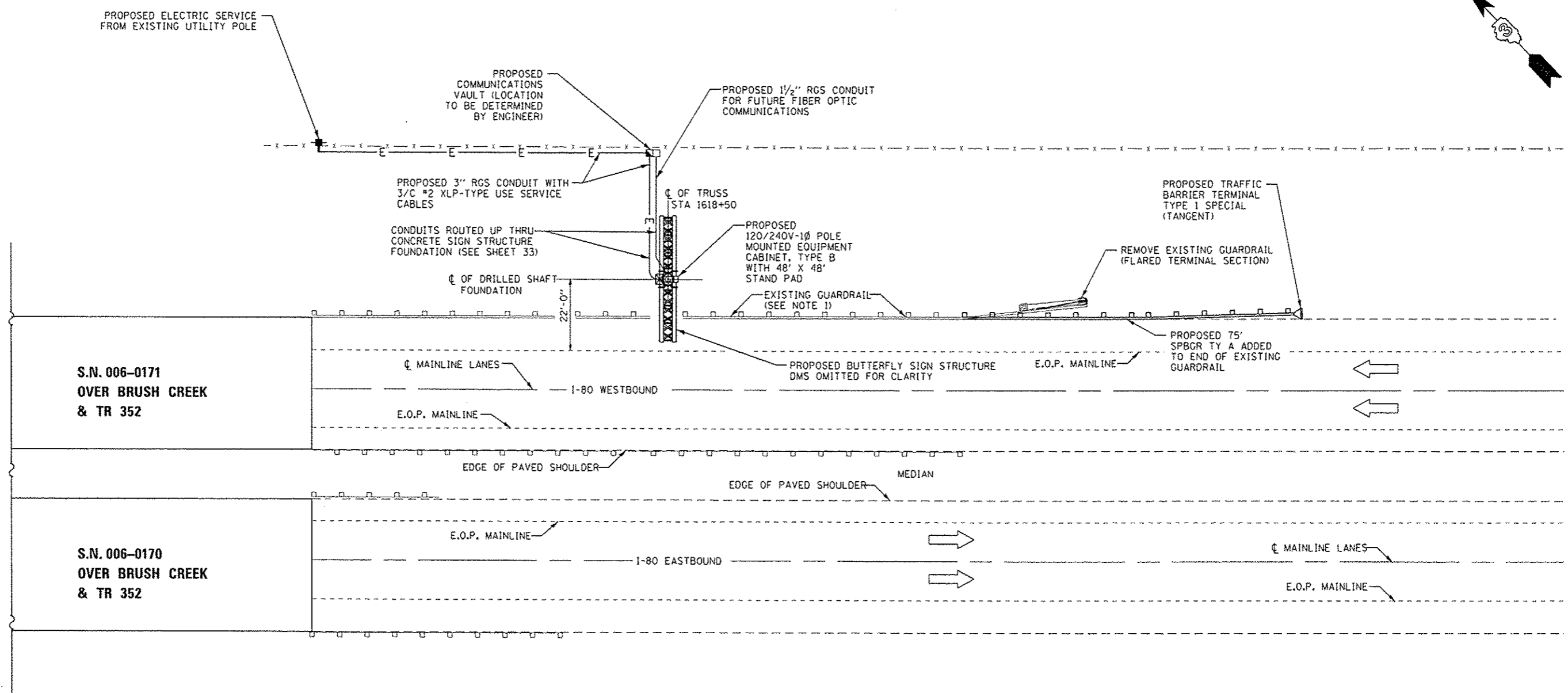
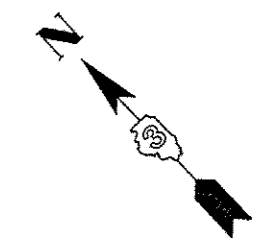
- LEGEND**
- X - X - X RIGHT-OF-WAY FENCE
 - A - A - A AERIAL UTILILITY CABLE
 - E - E - E PROPOSED ELECTRICAL CONDUIT
 - [Hatched Box] FURNISHED EXCAVATION

NOTES:
 1. CONTRACTOR MUST VERIFY PRESENCE AND LOCATION OF ANY AND ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK

SCHEDULE - DMS SITE #1 (I-80 EB, M.M. 41.90)

ITEM	UNIT	QUANTITY
FURNISHED EXCAVATION	CU YD	100
PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	90
END SECTIONS 15"	EACH	2
IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1
ATTENUATOR BASE	SQ YD	9.5
ELECTRIC SERVICE INSTALLATION	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 1 1/2" DIA.	FOOT	40
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	190
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 2	FOOT	215
COMMUNICATIONS VAULT	EACH	1
POLE MOUNTED EQUIPMENT CABINET, TYPE B	EACH	1
TRUSS MOUNTED LED DYNAMIC MESSAGE SIGN	EACH	1
CELLULAR MODEM	EACH	1
ACCESS LADDER	EACH	1
CLOSED CIRCUIT TELEVISION DOME CAMERA, IP BASED	EACH	1





SCHEDULE - DMS SITE #2 (I-80 WB, M.M. 65.80)

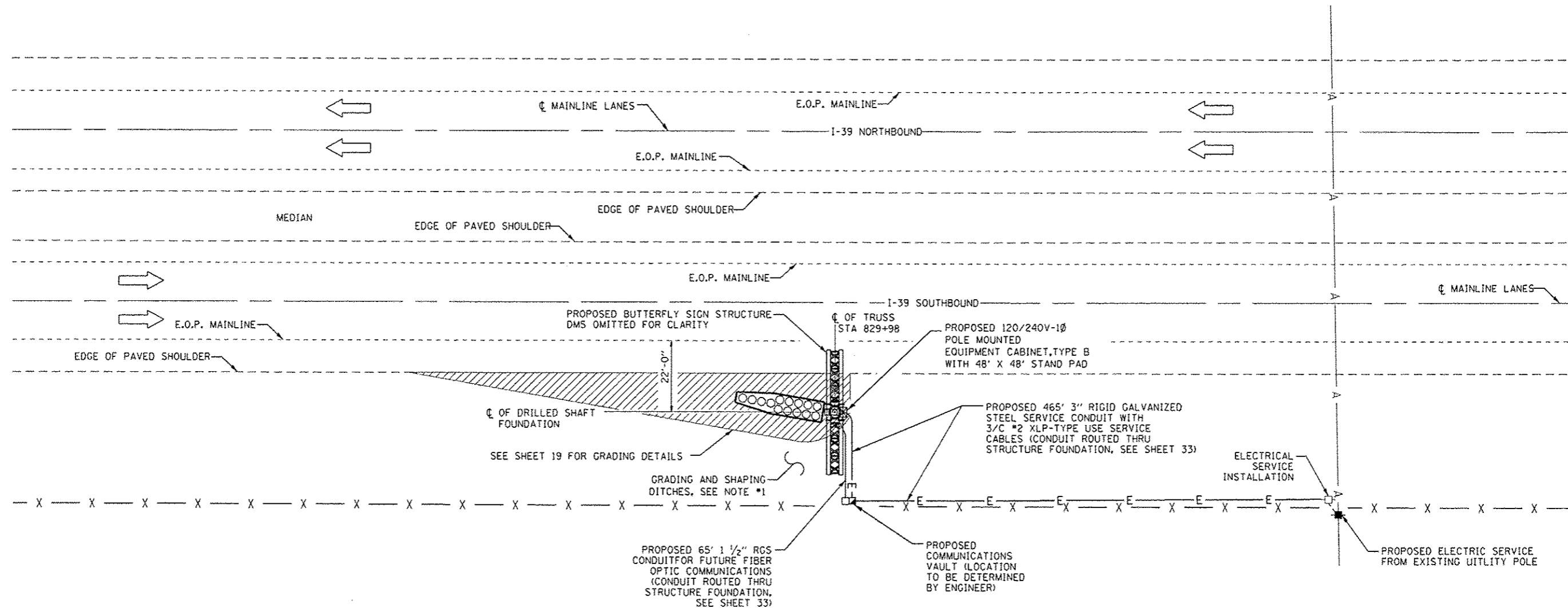
ITEM	UNIT	QUANTITY
EXCAVATING AND GRADING EXISTING SHOULDER	UNIT	2
STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	75
TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1
GUARDRAIL REMOVAL	FOOT	25
TERMINAL MARKER - DIRECT APPLIED	EACH	1
GUARDRAIL REFLECTORS, TYPE A	EACH	2
ELECTRIC SERVICE INSTALLATION	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 1 1/2" DIA.	FOOT	50
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	240
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 2	FOOT	265
COMMUNICATIONS VAULT	EACH	1
POLE MOUNTED EQUIPMENT CABINET, TYPE B	EACH	1
TRUSS MOUNTED LED DYNAMIC MESSAGE SIGN	EACH	1
CELLULAR MODEM	EACH	1
ACCESS LADDER	EACH	1
CLOSED CIRCUIT TELEVISION DOME CAMERA, IP BASED	EACH	1

LEGEND

- x - x - x - x - x - RIGHT-OF-WAY FENCE
- E - E - PROPOSED ELECTRICAL CONDUIT

NOTES:

1. CONTRACTOR HAS THE OPTION OF REMOVING SECTIONS OF EXISTING GUARDRAIL IF NECESSARY TO ACCESS THE FOUNDATION LOCATION AT NO ADDITIONAL COST TO THE DEPARTMENT. ANY RAIL ELEMENTS THAT ARE REMOVED SHALL BE RE-ERECTED BEFORE THE END OF THE WORK DAY. ANY GUARDRAIL REMOVED SHALL BE STORED IN A SAFE & SECURE LOCATION. DAMAGED GUARDRAIL SECTIONS OR POSTS WILL BE REPLACED AT CONTRACTOR'S EXPENSE
2. CONTRACTOR MUST VERIFY PRESENCE AND LOCATION OF ANY AND ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK



SCHEDULE - DMS SITE #3 (I-39 SB, M.M. 73.90)

ITEM	UNIT	QUANTITY
FURNISHED EXCAVATION	CU YD	60
IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1
ATTENUATOR BASE	SQ YD	9.5
ELECTRIC SERVICE INSTALLATION	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 1 1/2" DIA.	FOOT	65
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	465
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 2	FOOT	490
COMMUNICATIONS VAULT	EACH	1
POLE MOUNTED EQUIPMENT CABINET, TYPE B	EACH	1
TRUSS MOUNTED LED DYNAMIC MESSAGE SIGN	EACH	1
CELLULAR MODEM	EACH	1
ACCESS LADDER	EACH	1
CLOSED CIRCUIT TELEVISION DOME CAMERA, IP BASED	EACH	1

LEGEND

- X — X — X RIGHT-OF-WAY FENCE
- A — AERIAL UTILITY CABLE
- E — E PROPOSED ELECTRICAL CONDUIT
- FURNISHED EXCAVATION

NOTES:

1. WORK REQUIRED TO MAINTAIN FLOW OF WATER AROUND THE PROPOSED DMS AND ATTENUATOR ARRAY WILL BE PAID AS GRADING AND SHAPING DITCHES.
2. CONTRACTOR MUST VERIFY PRESENCE AND LOCATION OF ANY AND ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK

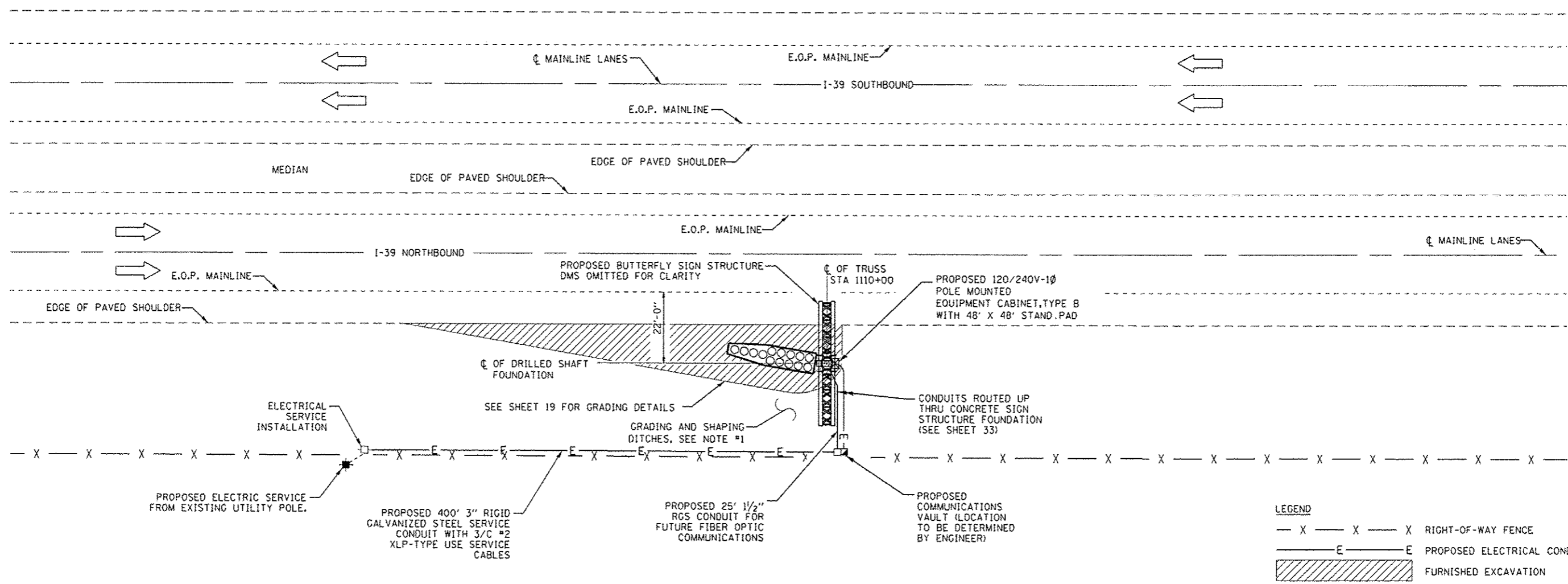
FILE NAME :	USER NAME : woodshankr1	DESIGNED -	REVISED -
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PLOT SCALE = 1/8" = 1' - 0"		CHECKED -	REVISED -
PLOT DATE = 2/21/2017		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DYNAMIC MESSAGE SIGN PLAN
LOCATION #3 I-39 SOUTHBOUND (MM 73.9)

SCALE: SHEET 1 OF 1 SHEETS STA. 829+98 TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D3 DMS 2016	VARIOUS	45	12
			CONTRACT NO. 66E97	
ILLINOIS FED. AID PROJECT				

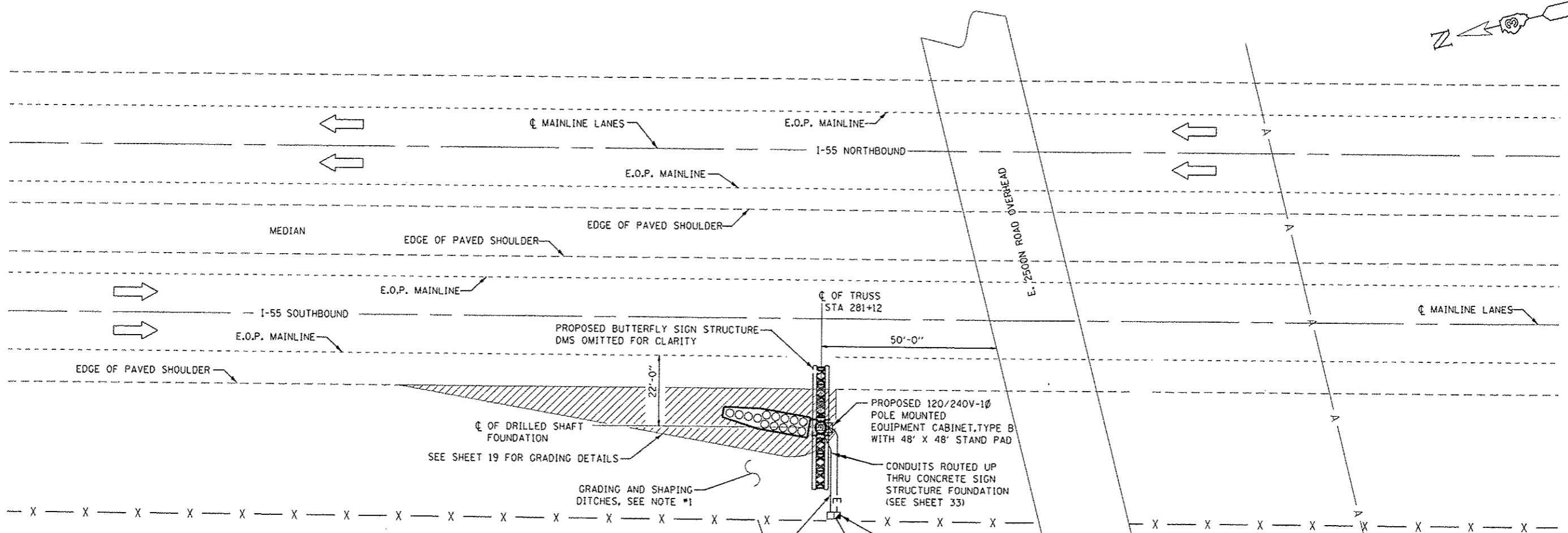


- LEGEND**
- X — X — X RIGHT-OF-WAY FENCE
 - E — E — E PROPOSED ELECTRICAL CONDUIT
 - FURNISHED EXCAVATION

- NOTES:**
1. WORK REQUIRED TO MAINTAIN FLOW OF WATER AROUND THE PROPOSED DMS AND ATTENUATOR ARRAY WILL BE PAID AS GRADING AND SHAPING DITCHES.
 2. CONTRACTOR MUST VERIFY PRESENCE AND LOCATION OF ANY AND ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK

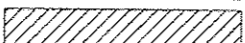
SCHEDULE - DMS SITE #4 (I-39 NB, M.M. 60.30)

ITEM	UNIT	QUANTITY
FURNISHED EXCAVATION	CU YD	50
IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1
ATTENUATOR BASE	SO YD	9.5
ELECTRIC SERVICE INSTALLATION	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 1 1/2" DIA.	FOOT	25
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	400
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 2	FOOT	425
COMMUNICATIONS VAULT	EACH	1
POLE MOUNTED EQUIPMENT CABINET, TYPE B	EACH	1
TRUSS MOUNTED LED DYNAMIC MESSAGE SIGN	EACH	1
CELLULAR MODEM	EACH	1
ACCESS LADDER	EACH	1
CLOSED CIRCUIT TELEVISION DOME CAMERA, IP BASED	EACH	1



- NOTES:**
1. WORK REQUIRED TO MAINTAIN FLOW OF WATER AROUND THE PROPOSED DMS AND ATTENUATOR ARRAY WILL BE PAID AS GRADING AND SHAPING DITCHES.
 2. PROPOSED 370' 3" RIGID GALVANIZED STEEL SERVICE CONDUIT WITH 3/C #2 XLP-TYPE USE SERVICE CABLES
 3. PROPOSED 70' 3" RIGID GALVANIZED STEEL SERVICE CONDUIT WITH 3/C #2 XLP-TYPE USE SERVICE CABLES
 4. PROPOSED 65' DIRECTIONAL BORING WITH 3/C #2 XLP-TYPE USE SERVICE CABLES
 5. CONTRACTOR MUST VERIFY PRESENCE AND LOCATION OF ANY AND ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK

LEGEND

— X — X — X	RIGHT-OF-WAY FENCE
— A —	AERIAL UTILITY CABLE
— E — E	PROPOSED ELECTRICAL CONDUIT
	FURNISHED EXCAVATION

SCHEDULE - DMS SITE #5 (I-55 SB, M.M. 208.00)

ITEM	UNIT	QUANTITY
FURNISHED EXCAVATION	CU YD	45
IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1
ATTENUATOR BASE	SQ YD	9.5
ELECTRIC SERVICE INSTALLATION	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 1 1/2" DIA.	FOOT	50
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	440
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 2	FOOT	530
COMMUNICATIONS VAULT	EACH	1
POLE MOUNTED EQUIPMENT CABINET, TYPE B	EACH	1
DIRECTIONAL BORING	FOOT	65
TRUSS MOUNTED LED DYNAMIC MESSAGE SIGN	EACH	1
CELLULAR MODEM	EACH	1
ACCESS LADDER	EACH	1
CLOSED CIRCUIT TELEVISION DOME CAMERA, IP BASED	EACH	1

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DYNAMIC MESSAGE SIGN PLAN
LOCATION #5 I-55 SOUTHBOUND (MM 208.0)**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D3 DMS 2016	VARIOUS	45	14
CONTRACT NO. 66E97			ILLINOIS FED. AID PROJECT	

FILE NAME :
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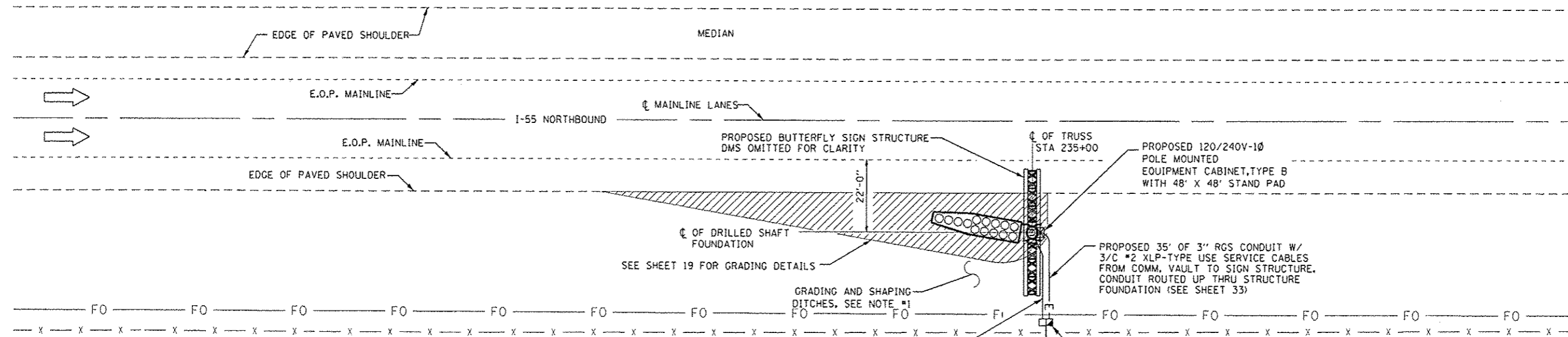
USER NAME : woodshankr1
PROJECT: I-55 SB, M.M. 208.00
DRAWING: DMS SITE #5 (I-55 SB, M.M. 208.00)
PLOT SCALE: 1/8" = 1'-0"
PLOT DATE: 2/21/2017

DESIGNED -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

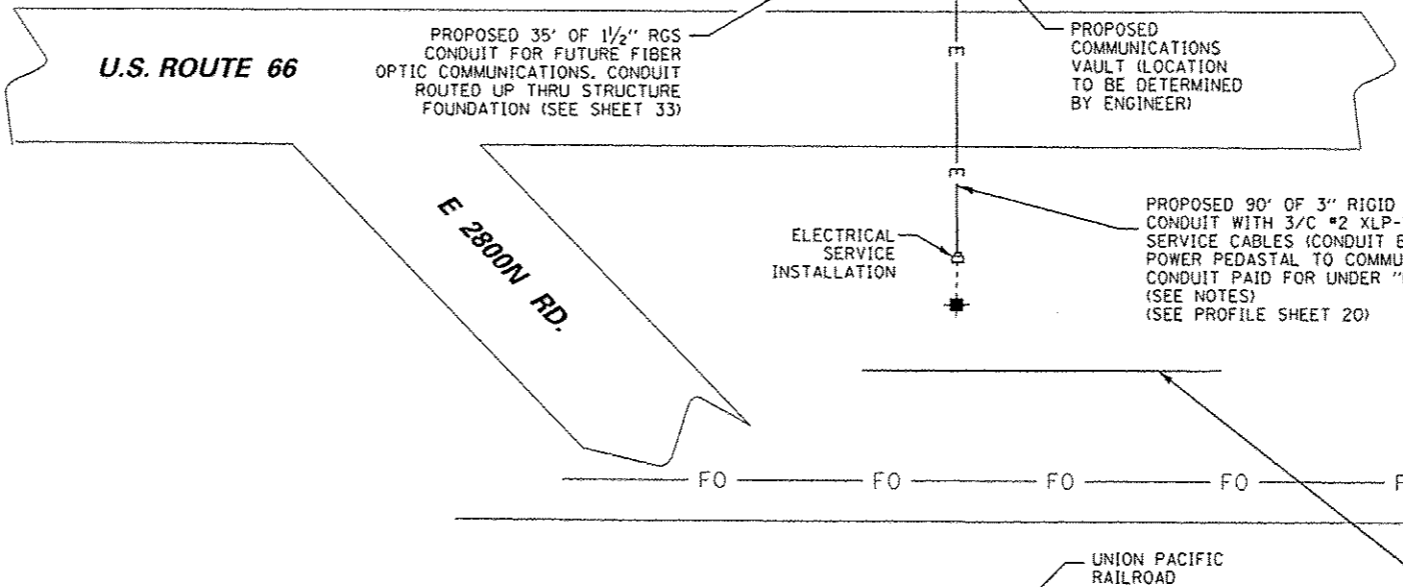
SCALE: SHEET 1 OF 1 SHEETS STA. 281+12 TO STA.

I-55 SOUTHBOUND



- LEGEND**
- X — X — X RIGHT-OF-WAY FENCE
 - FO — FIBER OPTIC CABLE (BURIED)
 - E — E PROPOSED ELECTRICAL CONDUIT
 - FURNISHED EXCAVATION

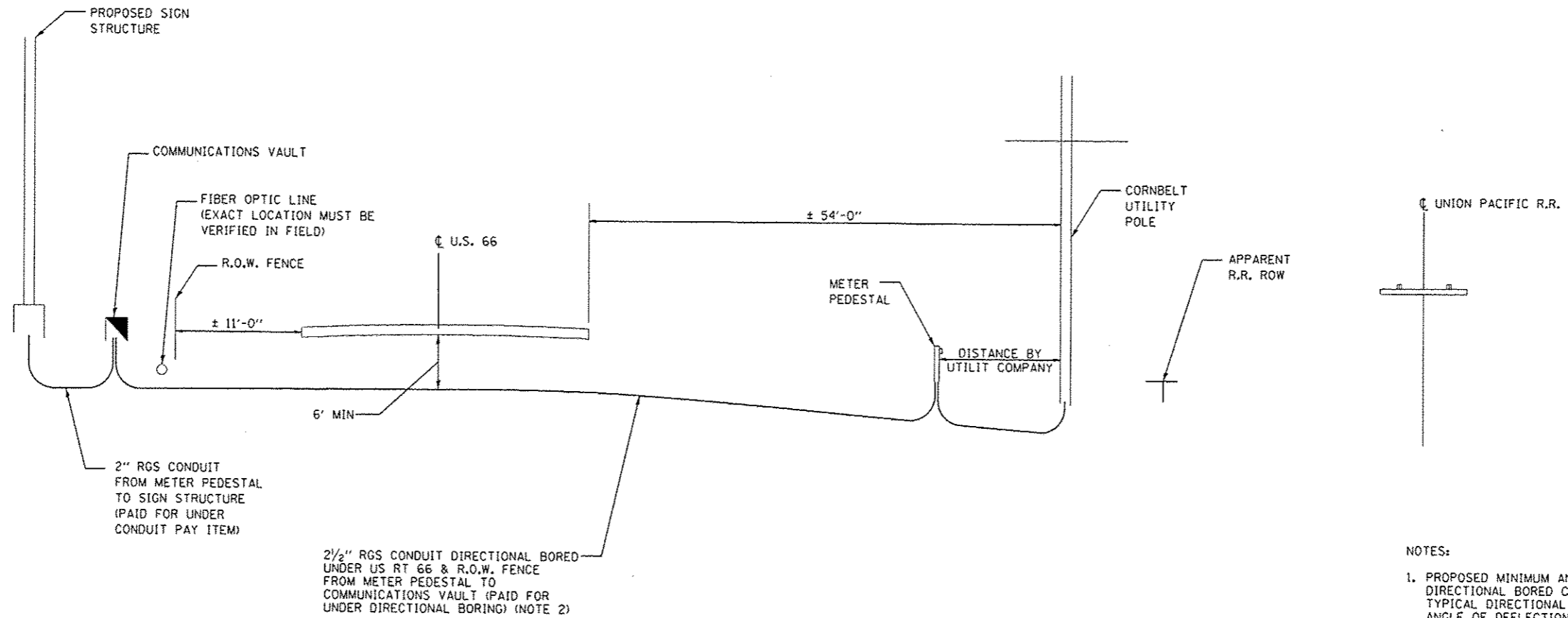
- NOTES:**
1. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY TO ENSURE NO EQUIPMENT, PERSONNEL, OR MATERIALS ENCRACHES ON THE UNION PACIFIC RAILROAD COMPANY'S RIGHT-OF-WAY.
 2. THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR ANY ADDITIONAL COSTS ASSOCIATED WITH BORING THROUGH FROZEN GROUND.
 3. CONTRACTOR MUST VERIFY PRESENCE AND LOCATION OF ANY AND ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK



SCHEDULE - DMS SITE #6 (I-55 NB, M.M. 183.50)

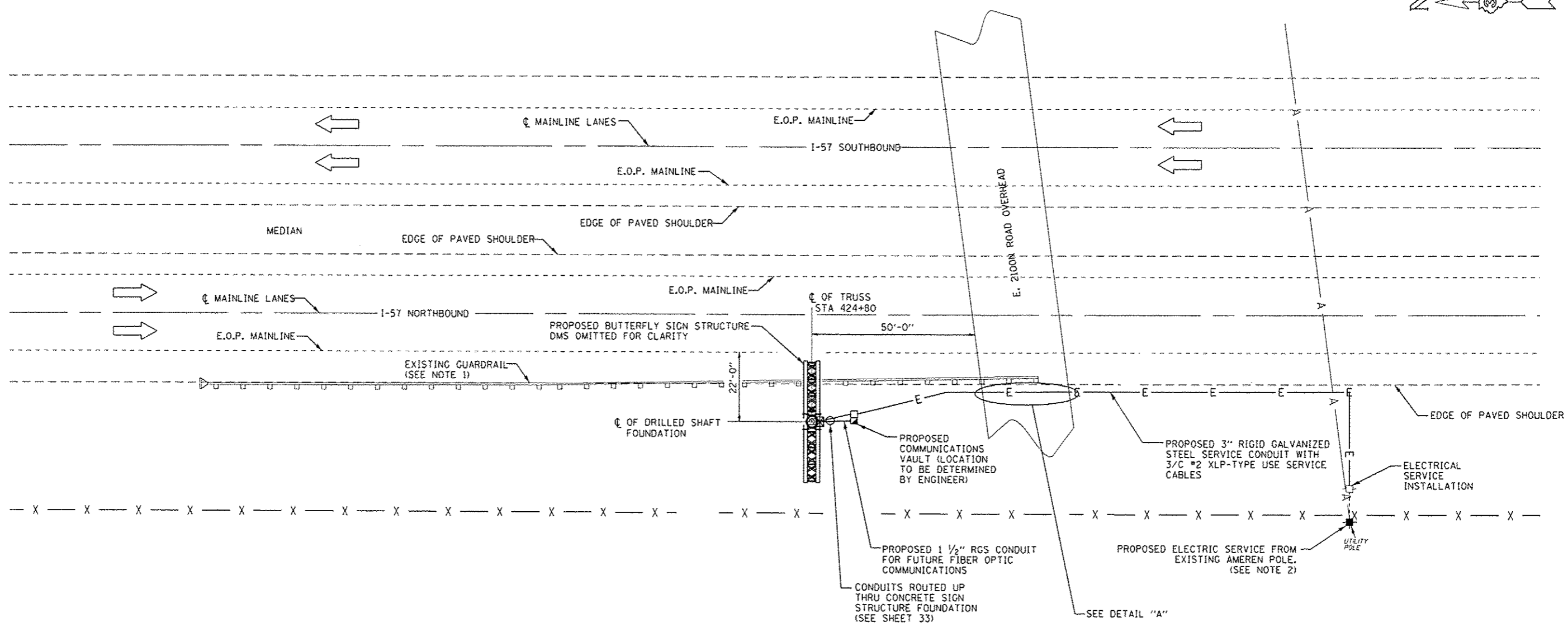
ITEM	UNIT	QUANTITY
FURNISHED EXCAVATION	CU YD	37
IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1
ATTENUATOR BASE	SQ YD	9.5
ELECTRIC SERVICE INSTALLATION	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 1 1/2" DIA.	FOOT	35
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	35
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 2	FOOT	150
COMMUNICATIONS VAULT	EACH	1
POLE MOUNTED EQUIPMENT CABINET, TYPE B	EACH	1
DIRECTIONAL BORING	FOOT	90
TRUSS MOUNTED LED DYNAMIC MESSAGE SIGN	EACH	1
CELLULAR MODEM	EACH	1
ACCESS LADDER	EACH	1
CLOSED CIRCUIT TELEVISION DOME CAMERA, IP BASED	EACH	1

WARNING
"HIGH SPEED RAIL"



- NOTES:
1. PROPOSED MINIMUM ANGLE OF DEFLECTION FOR DIRECTIONAL BORED CONDUIT IS 230 FT RADIUS. TYPICAL DIRECTIONAL BORING MACHINE MINIMUM ANGLE OF DEFLECTION 100-150 FT RADIUS.
 2. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY TO ENSURE NO EQUIPMENT, PERSONNEL, OR MATERIALS ENCROACHES ON THE UNION PACIFIC RAILROAD COMPANY'S RIGHT-OF-WAY.
 3. CONTRACTOR MUST VERIFY PRESENCE AND LOCATION OF ANY AND ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK
 4. CONDUIT SHALL BE PLACED AT A MINIMUM DEPTH OF 2 FEET

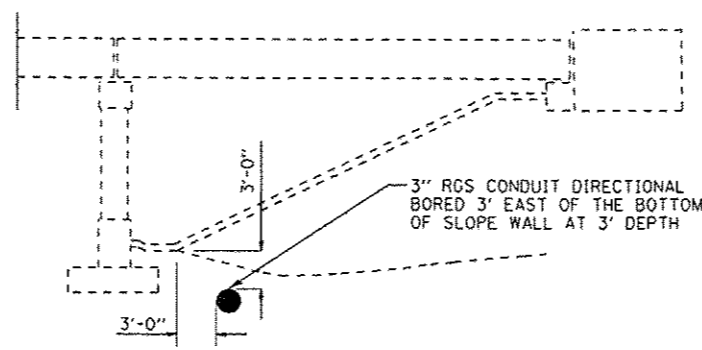
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PLOT SCALE : 100.0000 ' / in.	CHECKED -	REVISED -	VAR			D3 DMS 2016	VARIOUS	45	16	
PLOT DATE : 2/21/2017	DATE -	REVISED -	SCALE: SHEET 2 OF 2 SHEETS STA. 235+00 TO STA.			CONTRACT NO. 66E97		ILLINOIS FED. AID PROJECT		



- LEGEND**
- X — X — X RIGHT-OF-WAY FENCE
 - A — A — A AERIAL UTILILITY CABLE
 - E — E — E PROPOSED ELECTRICAL CONDUIT

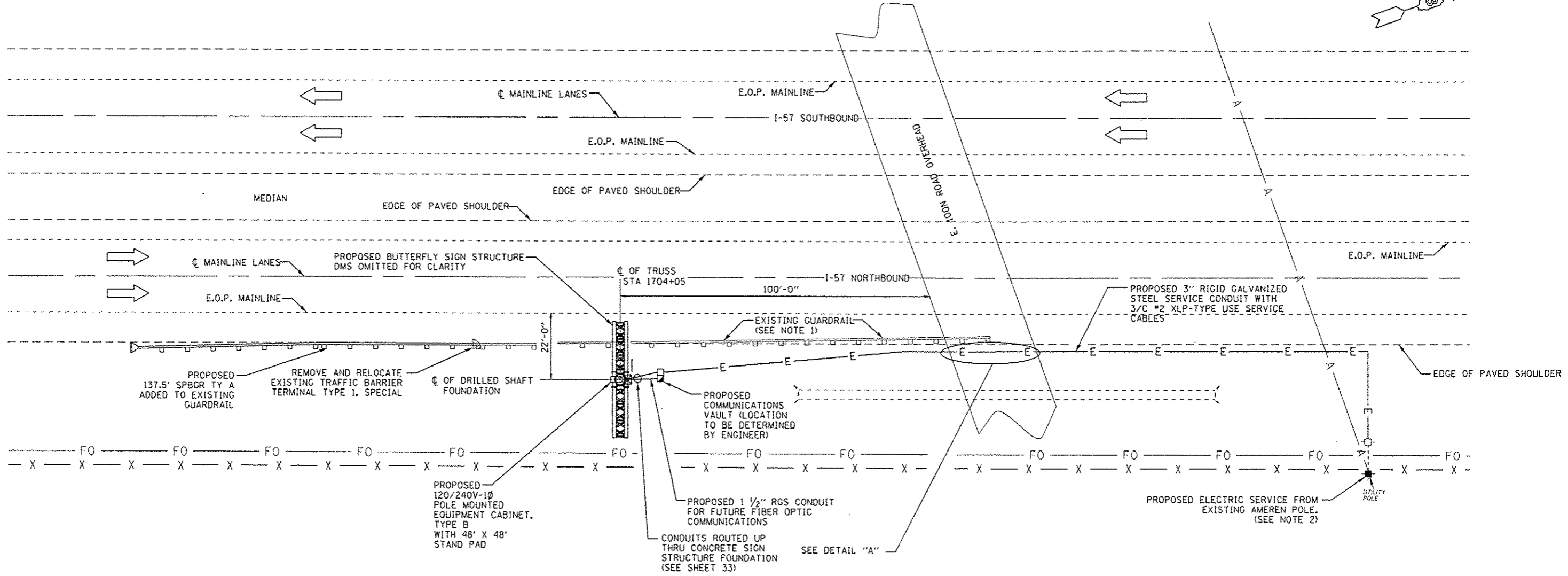
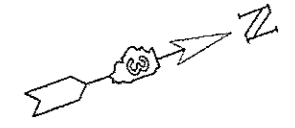
SCHEDULE - DMS SITE #7 (I-57 SB, M.M. 287.20)

ITEM	UNIT	QUANTITY
EXCAVATING AND GRADING EXISTING SHOULDER	UNIT	2
ELECTRIC SERVICE INSTALLATION	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 1 1/2" DIA.	FOOT	15
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	240
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 2	FOOT	265
COMMUNICATIONS VAULT	EACH	1
POLE MOUNTED EQUIPMENT CABINET, TYPE B	EACH	1
DIRECTIONAL BORING	FOOT	65
TRUSS MOUNTED LED DYNAMIC MESSAGE SIGN	EACH	1
CELLULAR MODEM	EACH	1
ACCESS LADDER	EACH	1
CLOSED CIRCUIT TELEVISION DOME CAMERA, IP BASED	EACH	1



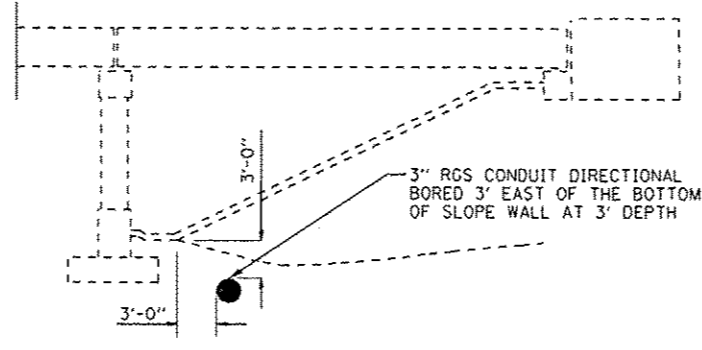
DETAIL "A"
NOT TO SCALE

- NOTES:**
- CONTRACTOR HAS THE OPTION OF REMOVING SECTIONS OF EXISTING GUARDRAIL IF NECESSARY TO ACCESS THE FOUNDATION LOCATION AT NO ADDITIONAL COST TO THE DEPARTMENT. ANY RAIL ELEMENTS THAT ARE REMOVED SHALL BE RE-ERECTED BEFORE THE END OF THE WORK DAY. ANY GUARDRAIL REMOVED SHALL BE STORED IN A SAFE & SECURE LOCATION. DAMAGED GUARDRAIL SECTIONS OR POSTS WILL BE REPLACED AT CONTRACTOR'S EXPENSE.
 - CONTRACTOR MUST VERIFY PRESENCE AND LOCATION OF ANY AND ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK.



SCHEDULE - DMS SITE #8 (I-57 NB, M.M. 258.10)

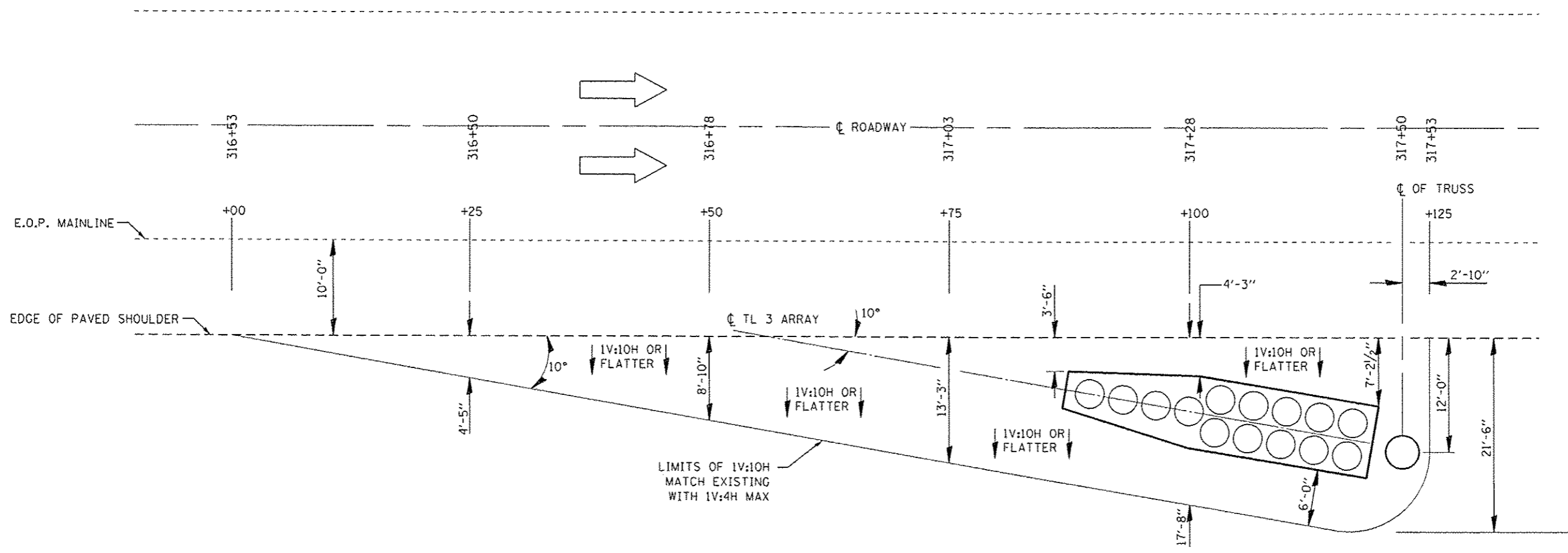
ITEM	UNIT	QUANTITY
EXCAVATING AND GRADING EXISTING SHOULDER	UNIT	2
STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	137.5
GUARDRAIL REFLECTORS, TYPE A	EACH	4
ELECTRIC SERVICE INSTALLATION	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 1 1/2" DIA.	FOOT	15
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	360
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 2	FOOT	375
COMMUNICATIONS VAULT	EACH	1
POLE MOUNTED EQUIPMENT CABINET, TYPE B	EACH	1
DIRECTIONAL BORING	FOOT	65
TRUSS MOUNTED LED DYNAMIC MESSAGE SIGN	EACH	1
CELLULAR MODEM	EACH	1
ACCESS LADDER	EACH	1
CLOSED CIRCUIT TELEVISION DOME CAMERA, IP BASED	EACH	1
TRAFFIC BARRIER TERMINAL, TYPE I, SPECIAL, REMOVE AND RELOCATE	EACH	1



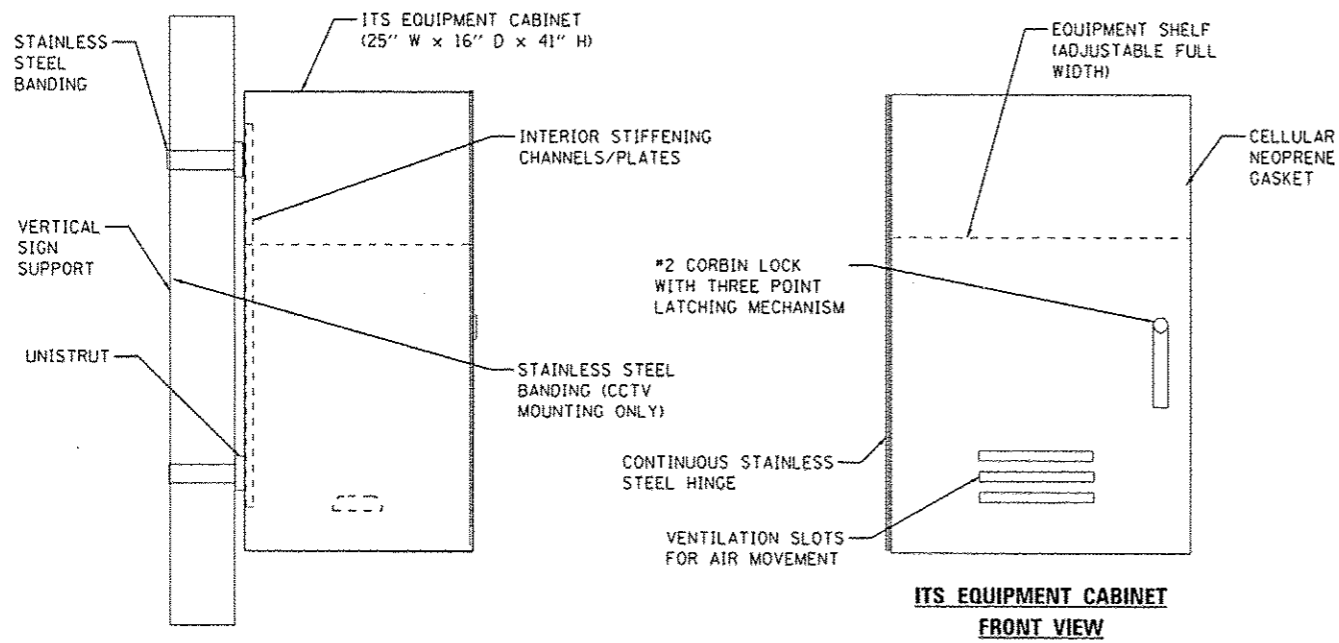
DETAIL "A"
NOT TO SCALE

- LEGEND**
- X — X — X RIGHT-OF-WAY FENCE
 - FO — FIBER OPTIC CABLE (BURIED)
 - A — AERIAL UTILITLY CABLE
 - E — E PROPOSED ELECTRICAL CONDUIT

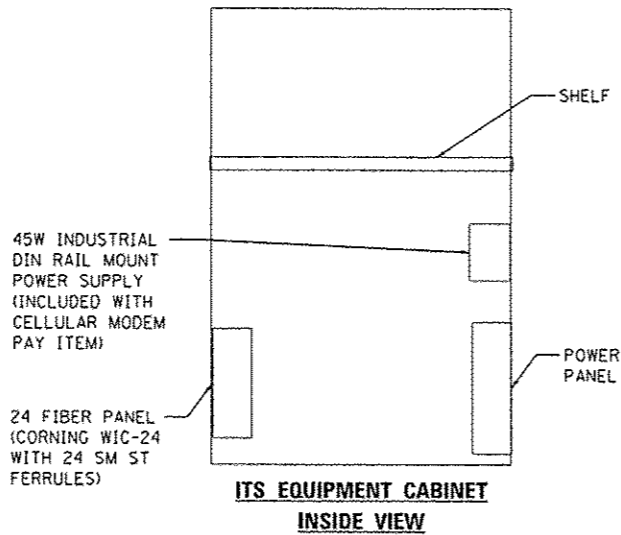
- NOTES:**
- CONTRACTOR HAS THE OPTION OF REMOVING SECTIONS OF EXISTING GUARDRAIL IF NECESSARY TO ACCESS THE FOUNDATION LOCATION AT NO ADDITIONAL COST TO THE DEPARTMENT. ANY RAIL ELEMENTS THAT ARE REMOVED SHALL BE RE-ERECTED BEFORE THE END OF THE WORK DAY. ANY GUARDRAIL REMOVED SHALL BE STORED IN A SAFE & SECURE LOCATION. DAMAGED GUARDRAIL SECTIONS OR POSTS WILL BE REPLACED AT CONTRACTOR'S EXPENSE
 - CONTRACTOR MUST VERIFY PRESENCE AND LOCATION OF ANY AND ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK.



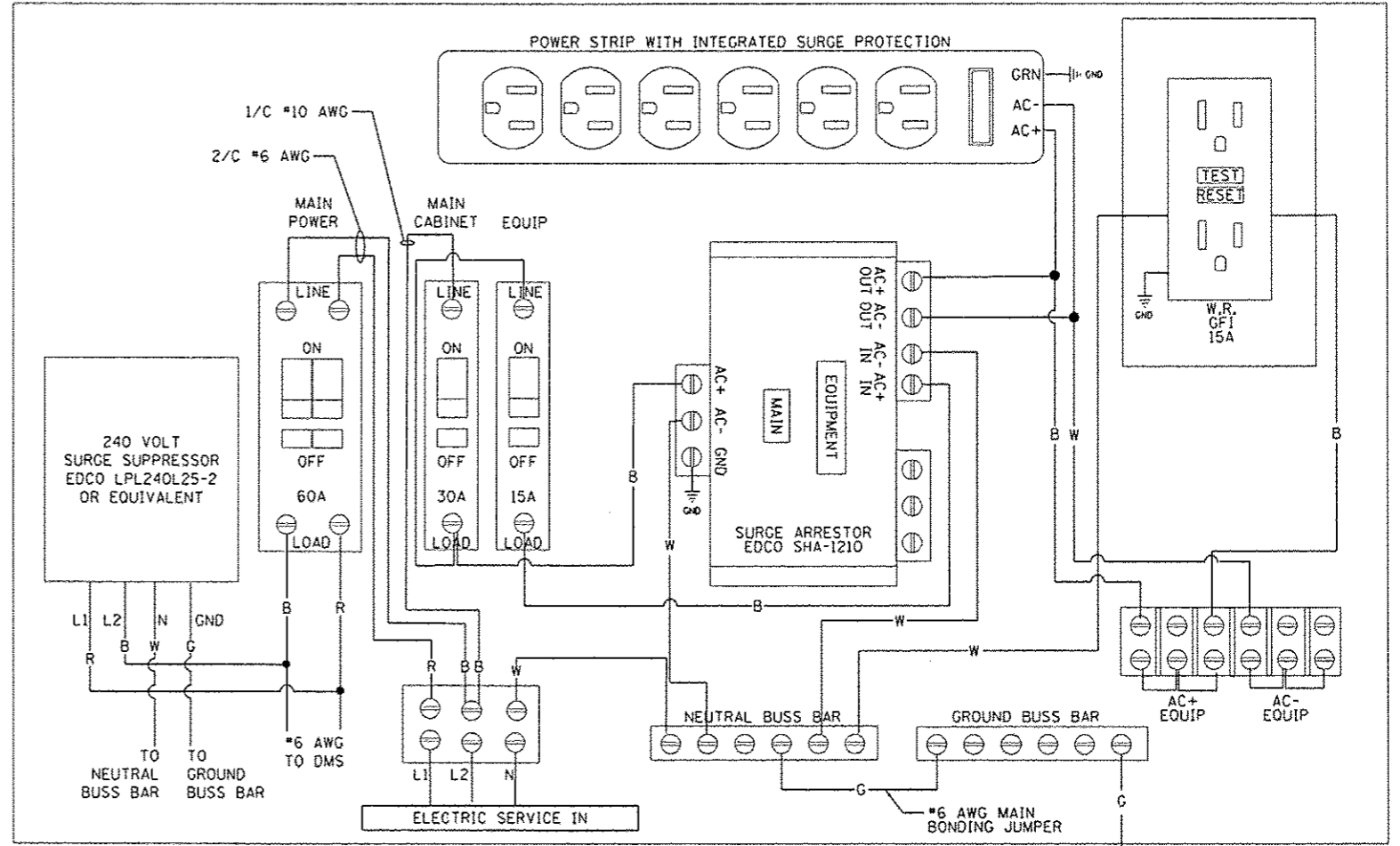
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	DRAWN Data\B366E97-ah1-details.dgn	CHECKED -	REVISED -					VAR	D3 DMS 2016	VARIOUS	45	19
	PLOT SCALE : 100.0000 / 1 in.	DATE -	REVISED -					CONTRACT NO. 66E97				
	PLOT DATE : 2/21/2017	DATE -	REVISED -					ILLINOIS FED. AID PROJECT				
Default				SCALE:	SHEET 1	OF 1	SHEETS	STA. 317+50	TO STA.			



ITS EQUIPMENT CABINET SIDE VIEW



ITS EQUIPMENT CABINET INSIDE VIEW



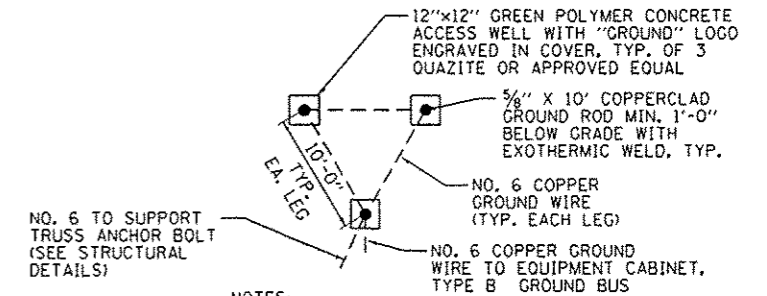
ITS EQUIPMENT CABINET POWER PANEL DETAIL (POWER PANEL TO BE EQUIPPED WITH PLEXI-GLASS SAFETY SHIELD)

NOTES:

1. THE ITS EQUIPMENT CABINET SHALL BE A NEMA TYPE 3R CABINET WITH MINIMUM OUTSIDE DIMENSIONS OF 41" (H) X 25" (W) X 16" (D). THE CABINET SHALL BE CONSTRUCTED FROM .125" THICK ALUMINUM AND HAVE A NATURAL FINISH.
2. THE CABINET SHALL BE FURNISHED WITH ONE ADJUSTABLE HEIGHT SHELF, THREE POSITION DOOR STOP (90,120,180 DEGREES), NEOPRENE DOOR GASKET, AIR VENT LOUVERS, CONTINUOUS STAINLESS STEEL DOOR HINGE, INTERIOR STIFFENERS FOR MOUNTING, THREE POINT LATCHING MECHANISM WITH #2 CORBIN LOCK, 24 FIBER INTERCONNECT CENTER, POWER PANEL, AND ALL STAINLESS STEEL HARDWARE.
3. THE CABINET SHALL BE EQUIPPED WITH A THERMOSTATICALLY CONTROLLED VENTILATION FAN, 250 WATT HEATER STRIP (WITH GUARD), AND DELUXE PLEATED AIR FILTER.
4. THE CONTRACTOR SHALL INSTALL ALL DIN RAIL MOUNTED EQUIPMENT IN THE CABINET.
5. ALL ITEMS SHOWN ON THIS DRAWING (EXCEPT CELLULAR MODEM) SHALL BE INCLUDED IN THE EQUIPMENT CABINET PAY ITEM (INCLUDING ALL UNISTRUT, MTG. BRACKETS, CONDUIT/WIRE ATTACHED TO STRUCTURE & METER FITTING).
6. ALL CONTROL CABINET ITEMS SHALL HAVE SUITABLE IDENTIFICATION. OPEN CIRCUIT BREAKERS, CONTACTORS AND OTHER OPEN DEVICES SHALL HAVE PERMANENT SELF STICKING TAGS. DEVICES IN ENCLOSURES SHALL HAVE ENGRAVED 2-COLOR LAMINATED PLASTIC NAMEPLATES ATTACHED TO ENCLOSURES WITH SCREWS. NAMEPLATES SHALL BE ENGRAVED TO CORRESPOND TO DESIGNATIONS ON THE DRAWINGS. INTERNAL CABINET WIRING SHALL BE IDENTIFIED AS INDICATED OR AS DIRECTED BY THE ENGINEER BY MEANS OF SELF-STICKING TAGS APPLIED AT EACH CONNECTED END. IDENTIFICATION SHALL BE MADE BY THE CABINET MANUFACTURER.

7. ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED:
R = REDBL = BLUEW = WHITEB = BLACKY = YELLOWG = GREEN
8. PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
9. ALL 120 VOLT SYSTEM AND ALL CONTROL WIRING SHALL BE #12AWG STRANDED UNLESS OTHERWISE INDICATED.
10. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
11. THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".

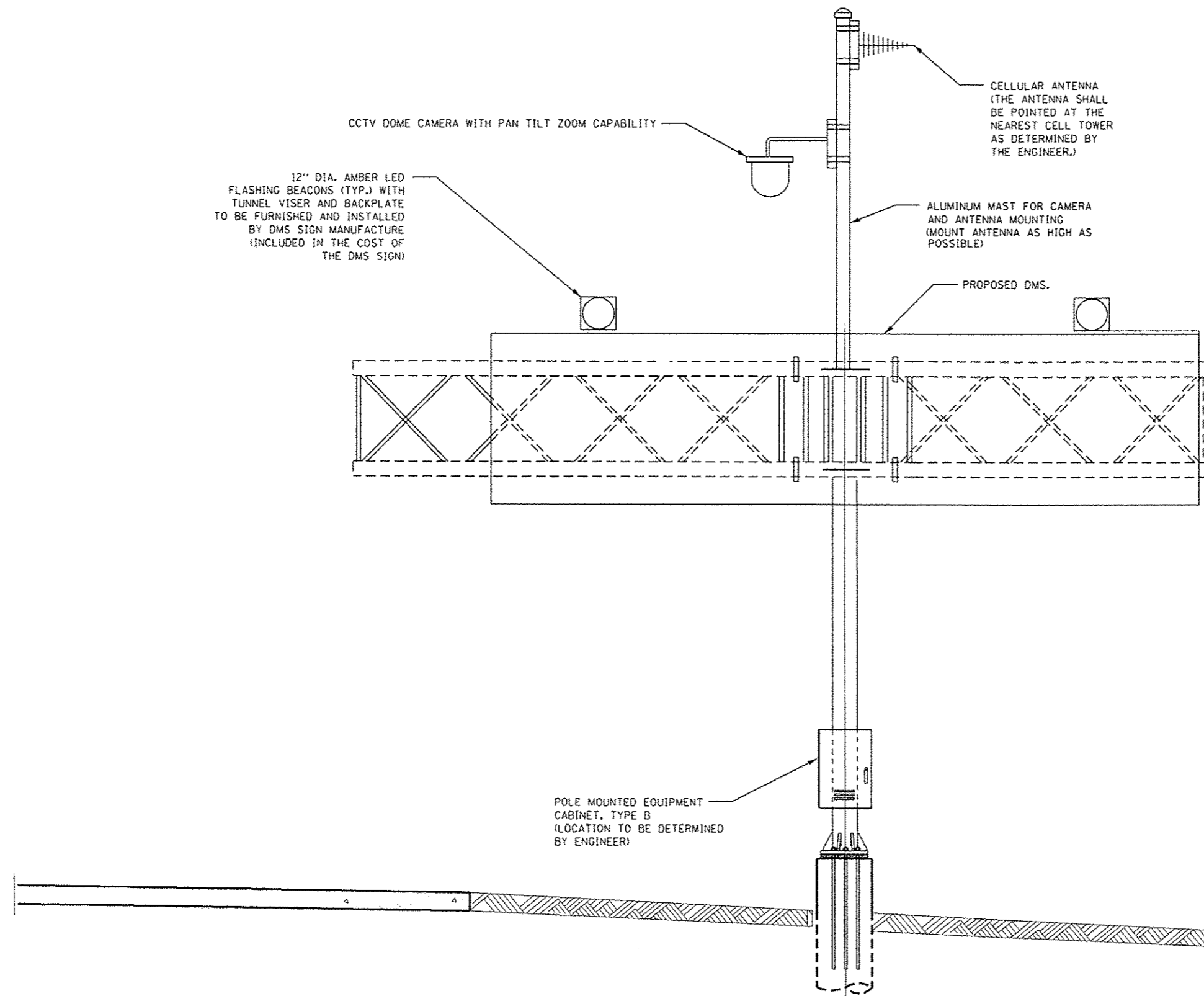
POLE MOUNTED EQUIPMENT CABINET, TYPE B
NOT TO SCALE



- NOTES:**
1. ACCESS WELLS SHALL BE INCLUDED IN THE EQUIPMENT CABINET PAY ITEM.

GROUND FIELD DETAIL (TYP.)

FILE NAME =	USER NAME = woodshank1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	POLE MOUNTED EQUIPMENT CABINET, TYPE B	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11084801\INTEG\illinois.gov\PIW001\Do	umanta\DOT Offices\District 3\Projects\036	DRAWN data\036097-ht-details.dgn	REVISED -			VAR	D3 DMS 2016	VARIOUS	45	20
Default	PLOT SCALE = 1/8"=1'-0"	CHECKED -	REVISED -			SCALE: 100,0000 / SHEET 1 OF 1 SHEETS STA. 317+50 TO STA.		CONTRACT NO. 66E97		ILLINOIS FED. AID PROJECT
	PLOT DATE = 2/21/2017	DATE -	REVISED -							



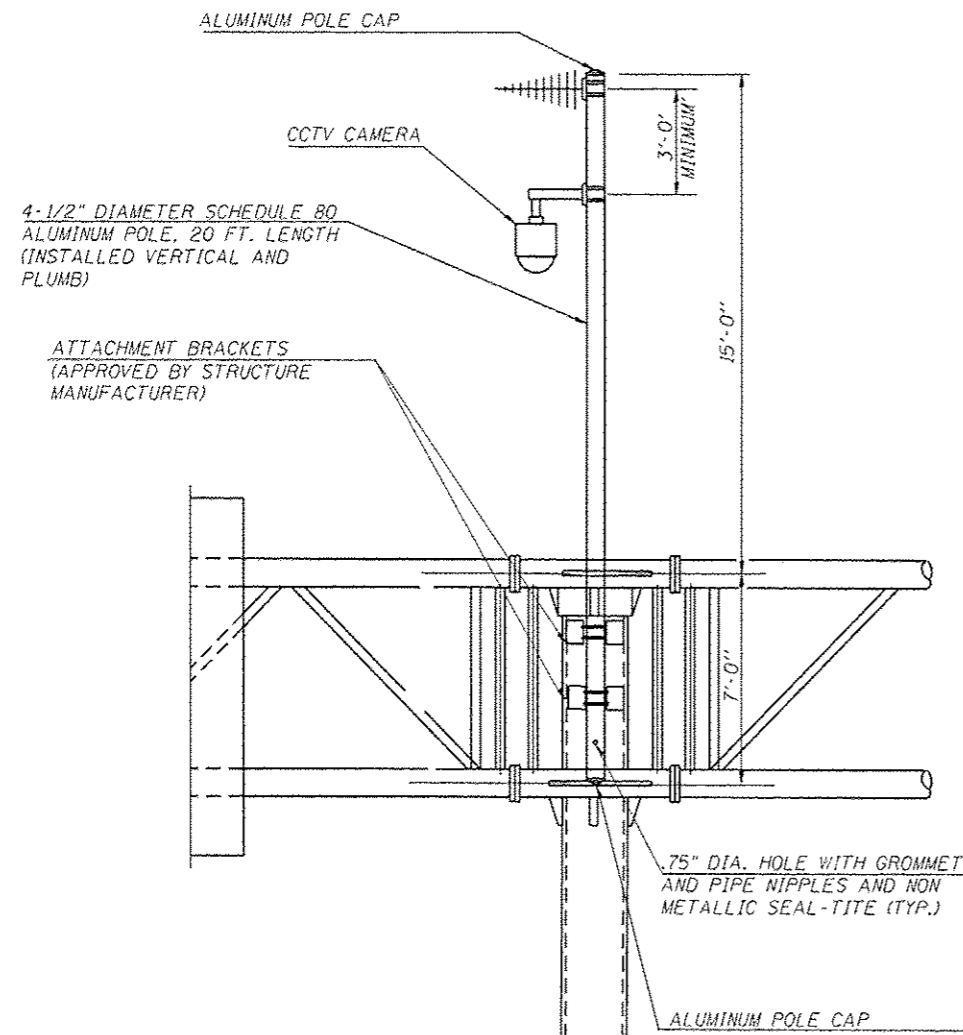
ELEVATION

CCTV CAMERA PLACEMENT (TYP.)
BUTTERFLY SIGN STRUCTURES (TYP.)

NOTES:

* THE CONTRACTOR SHALL SUBMIT COMPLETE ELECTRICAL DESIGN DETAILS AND CALCULATIONS SEALED BY AN ILLINOIS LICENSED ELECTRICAL AND STRUCTURAL ENGINEER TO THE RESIDENT ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE ORDERING OF ANY MATERIALS.

FILE NAME :	USER NAME :	DESIGNED :	REVISED :	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BUTTERFLY TRUSS SIGN STRUCTURE - DMS AND CCTV CAMERA DETAILS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
p:\1\1084E810\TEC\Illinois.gov\1001\00	Documents\1001 Offices\District 3\Projects\036	DRAWN	REVISED			VAR	D3 DMS 2016	VARIOUS	45	21	
		CHECKED	REVISED			CONTRACT NO. 66E97					
Default		DATE	REVISED			SCALE:	100.0000'	SHEET 1	OF 13	SHEETS	STA.

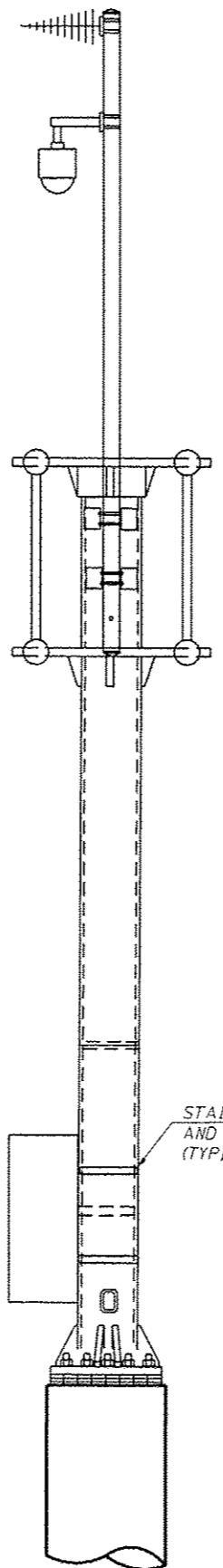


4-1/2" DIAMETER SCHEDULE 80 ALUMINUM POLE, 20 FT. LENGTH (INSTALLED VERTICAL AND PLUMB)

ATTACHMENT BRACKETS (APPROVED BY STRUCTURE MANUFACTURER)

75" DIA. HOLE WITH GROMMET AND PIPE NIPPLES AND NON METALLIC SEAL-TITE (TYP.)

ALUMINUM POLE CAP



STAINLESS STEEL BANDING AND BUCKLE (TYPICAL)

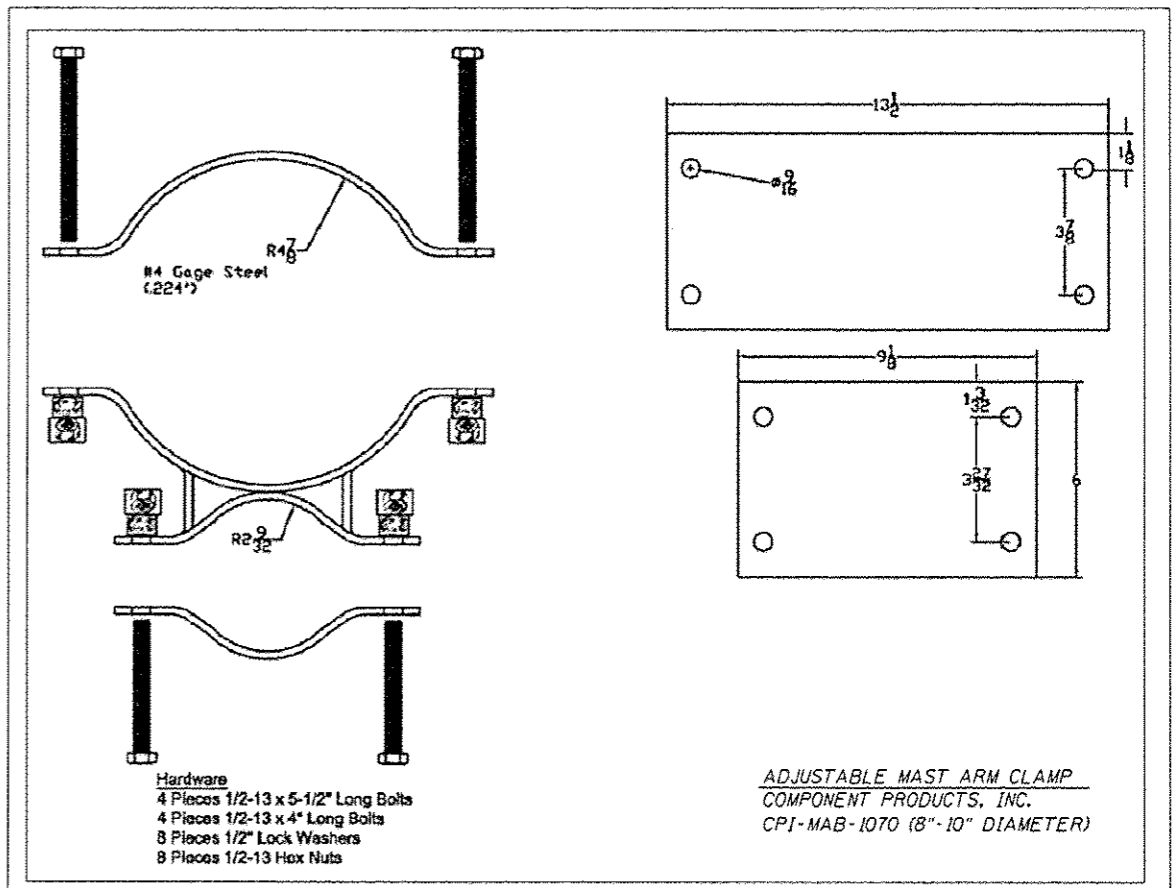
2" DIA. NPT THREADED HUB (COST INCLUDED WITH STRUCTURE) (LOCATION TO BE DETERMINED AT TIME OF SHOP DRAWING SUBMITTAL AND REVIEW)

FRONT ELEVATION

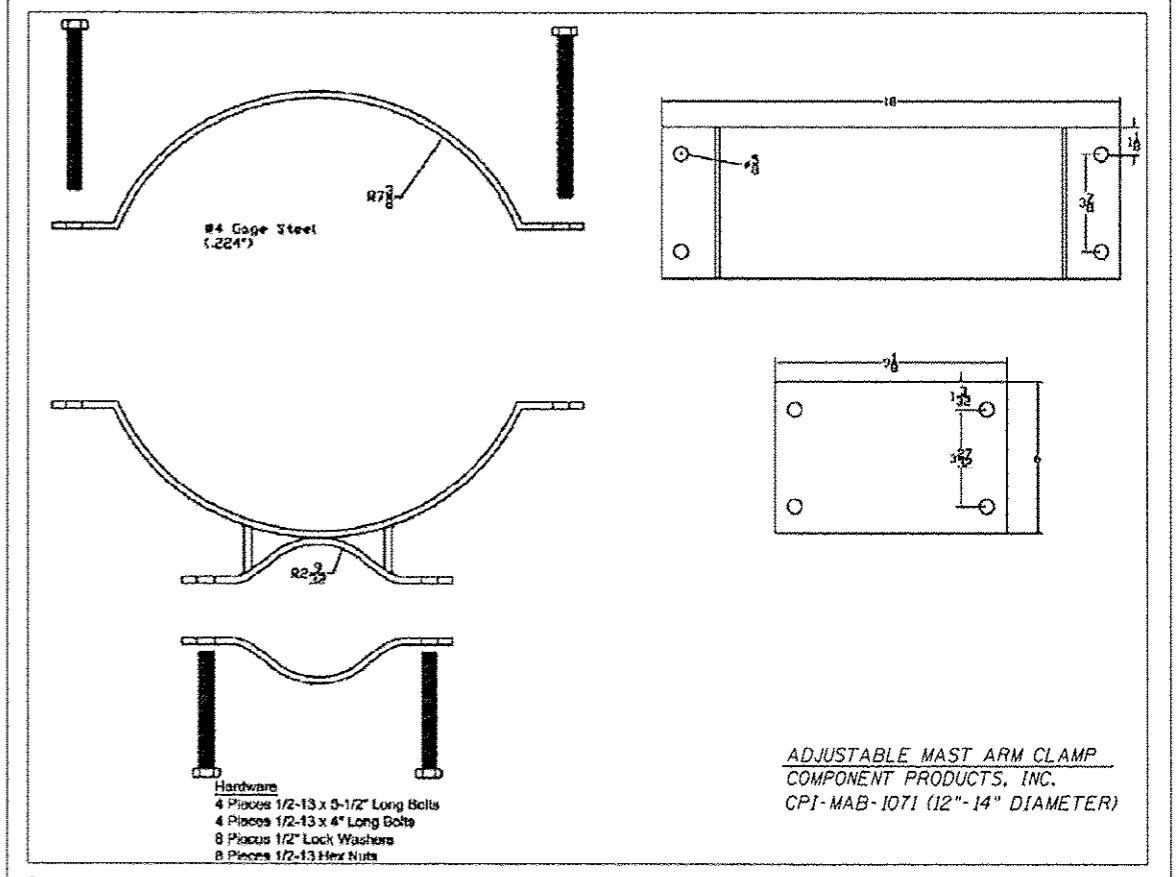
SIDE ELEVATION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE CAMERA MAST COMPONENTS FIT CORRECTLY AND ARE COMPATIBLE WITH THE SIGN STRUCTURE. THE MANUFACTURER OF THE SIGN STRUCTURE SHALL APPROVE THE CAMERA MAST DESIGN. THE COST OF FURNISHING AND INSTALLING THE CAMERA MAST SHALL BE INCLUDED IN THE COST OF THE SIGN STRUCTURE.

THE CONTRACTOR SHALL FURNISH AND INSTALL ALL GALVANIZED STEEL UNISTRUT, BRACKETING AND HARDWARE REQUIRED FOR CABINET INSTALLATION ONTO THE SIGN STRUCTURE VERTICAL SUPPORT. THE CONTRACTOR SHALL SUBMIT CATALOG CUT SHEETS FOR ALL MATERIALS AND DETAIL DRAWINGS FOR PROPOSED MOUNTING METHODS PRIOR TO COMMENCING WORK. ALL MATERIAL SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE EQUIPMENT CABINET.



ADJUSTABLE MAST ARM CLAMP
COMPONENT PRODUCTS, INC.
CPI-MAB-1070 (8"-10" DIAMETER)



ADJUSTABLE MAST ARM CLAMP
COMPONENT PRODUCTS, INC.
CPI-MAB-1071 (12"-14" DIAMETER)

CCTV POLE CLAMPS
NOT TO SCALE

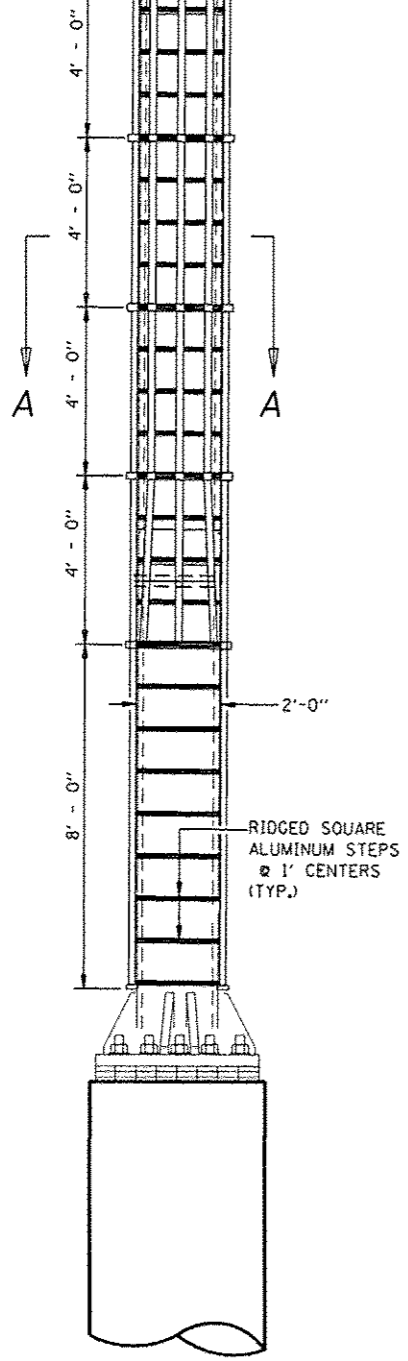
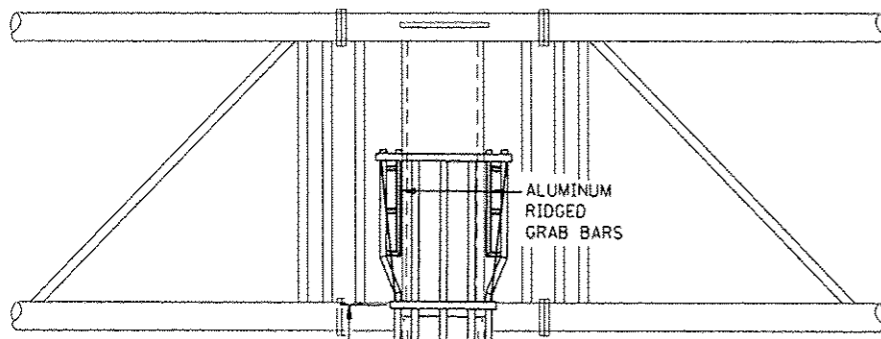
FILE NAME :	USER NAME :	DESIGNED :	REVISED :
PROJECT :	PROJECT :	PROJECT :	PROJECT :
PLOT SCALE :	CHECKED :	REVISIONS :	DATE :
PLOT DATE :	DATE :		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTTERFLY SIGN STRUCTURES - TYPE II-F-A & III-F-A
TRUSS SUPPORT POST - ALUMINUM TRUSS & STEEL POST

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D3 DMS 2016	VARIOUS	45	22
			CONTRACT NO. 66E97	
ILLINOIS FED. AID PROJECT				

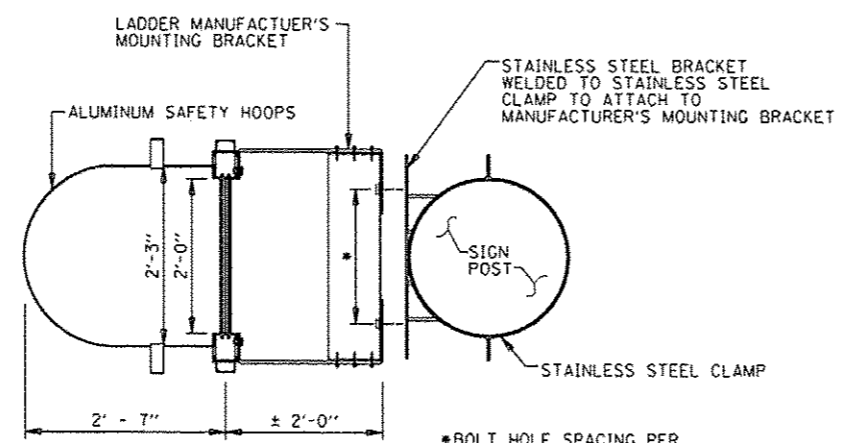
SCALE: 100.0000 / SHEET 2 OF 13 SHEETS STA. TO STA.



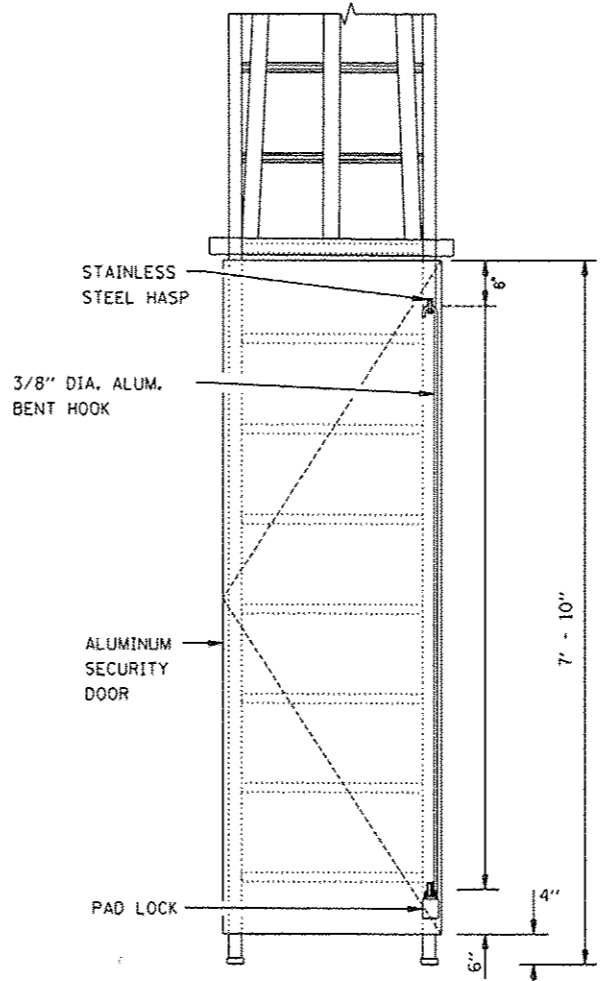
BACK ELEVATION

NOTES:

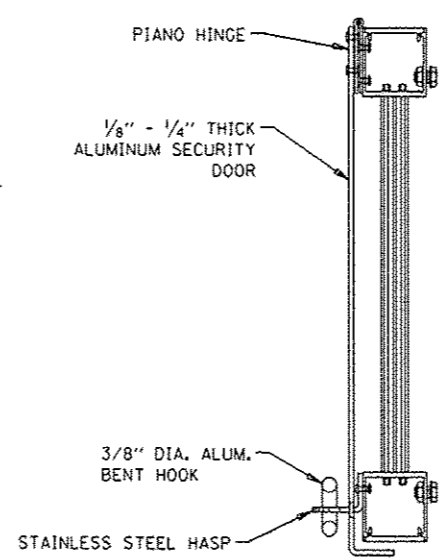
1. THE ACCESS LADDER AND SECURITY DOOR SHALL BE CONSTRUCTED OF ALUMINUM AND COMPLY WITH THE RELEVANT ASTM STANDARDS, INCLUDING BUT NOT LIMITED TO ASTM B 209 AND ASTM B 211.
2. THE ACCESS LADDER SHALL MEET THE RELEVANT OSHA STANDARDS, INCLUDING BUT NOT LIMITED TO OSHA 1910.27
3. THE ACCESS LADDER SHALL BE SECURED VIA THE MANUFACTURER'S MOUNTING BRACKET ATTACHED TO STAINLESS STEEL CLAMPS SECURED AROUND THE SIGN POST
4. THE ACCESS LADDER, SECURITY DOOR, BRACKETS, CLAMPS, AND ANY RELATIVE COMPONENTS SHALL NOT EXCEED 350 POUNDS IN WEIGHT.
5. THE ACCESS LADDER SHALL BE INSTALLED PLUMB
6. THE ACCESS LADDER SHALL BE SECURED FROM UNWANTED ACCESS BY SECURITY DOOR PLACED OVER THE BOTTOM 8' PORTION OF THE LADDER.



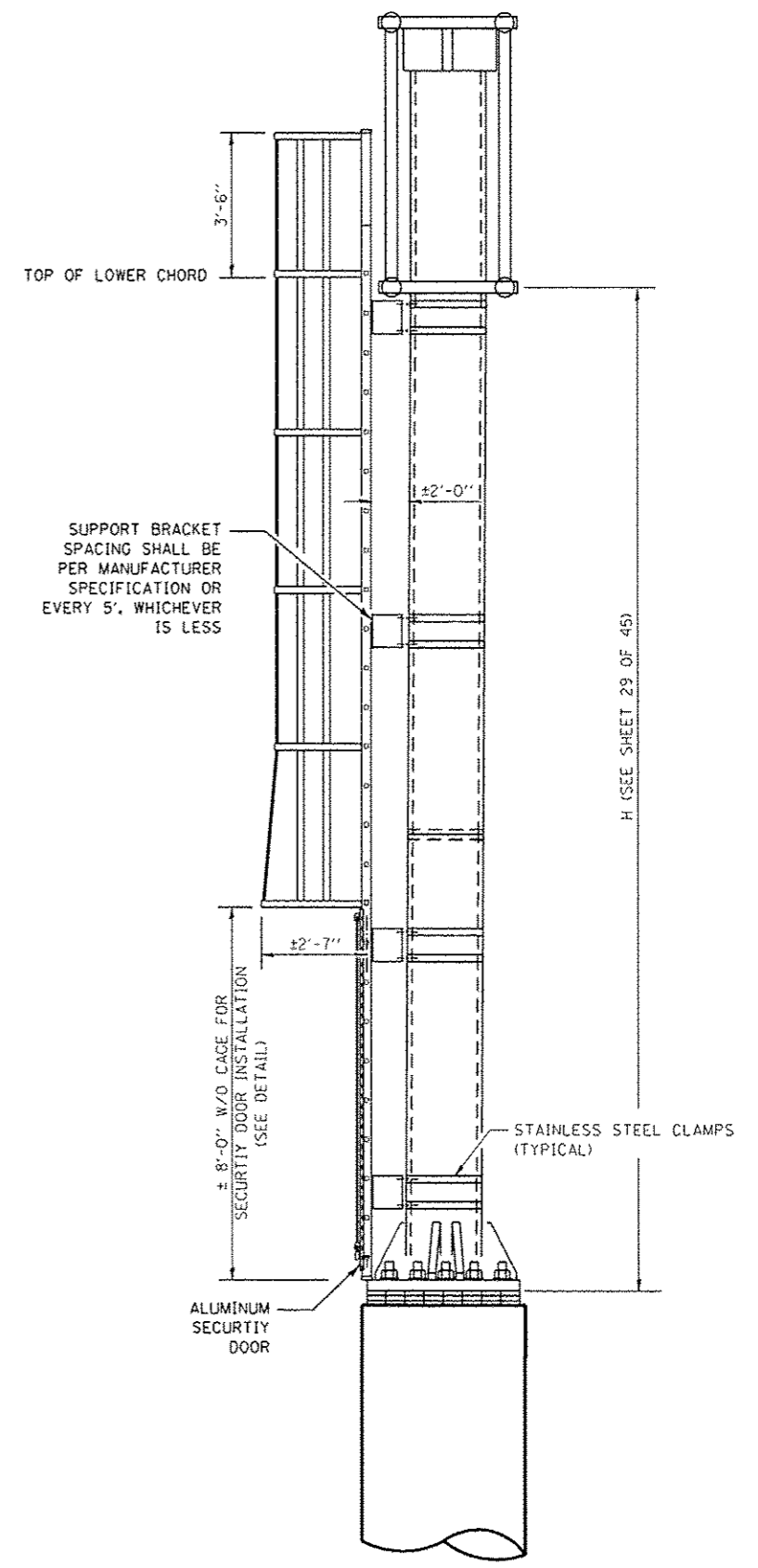
SECTION A-A



SECURITY DOOR DETAILS

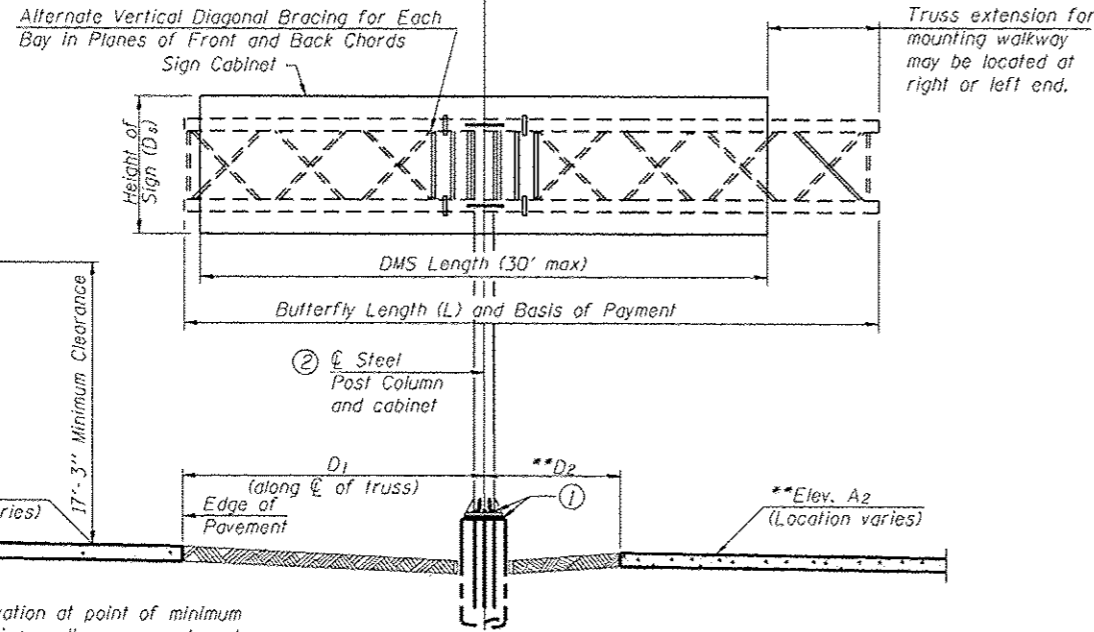
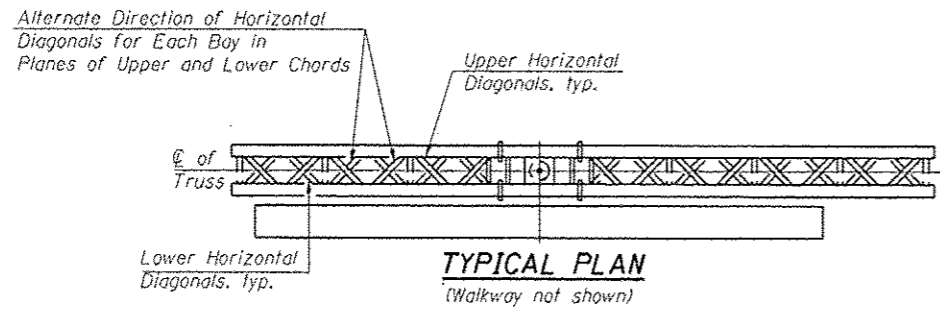


SECURITY DOOR PLAN



SIDE ELEVATION

FILE NAME: p:\11084EBIDINTEG\Illinois.gov\WDDT\Documents\100T Offices\District 3\Projects\036	USER NAME: woodshankr1	DESIGNED: DRAWN: data\03697-shr-details.dgn	REVISED: -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED ACCESS LADDER DETAIL FOR BUTTERFLY TRUSS SIGN STRUCTURE	F.A.I. RTE. VAR	SECTION 03 DMS 2016	COUNTY VARIOUS	TOTAL SHEETS 45	SHEET NO. 23		
Default	PLOT SCALE: 1/8" = 1'-0"	CHECKED: -	REVISED: -			SCALE: 100.0000	SHEET 3 OF 13 SHEETS	STA. TO STA.	CONTRACT NO. 66E97			
	PLOT DATE: 2/21/2017	DATE: -	REVISED: -			ILLINOIS FED. AID PROJECT						



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

TYPICAL ELEVATION

Looking in Direction of Traffic

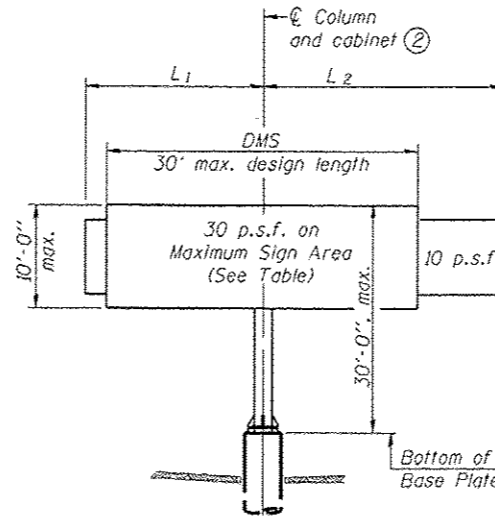
** Elevation A₂ and dimension D₂ not used when butterfly structure is mounted on right side of the shoulder.

Sign support structures may be subject to damaging vibrations and oscillations when signs 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	Total Butterfly Length (L)	Elev. A ₁	Elev. A ₂	Dim. D ₁	Dim. D ₂	D _s	Total Sign Area	Access door and walkway location (Right or Left end)
3F0061080R04.9	317+50	38'-8"	662.49	**	22'-0"	**	10'-0"	300 Sq. Ft.	LEFT.
3F0061080L065.8	1618+50	38'-8"	675.23	**	22'-0"	**	10'-0"	300 Sq. Ft.	LEFT.
3F0501039L073.9	829+98	38'-8"	759.72	**	22'-0"	**	10'-0"	300 Sq. Ft.	LEFT.
3F0501039R060.3	1110+00	38'-8"	653.23	**	22'-0"	**	10'-0"	300 Sq. Ft.	LEFT.
3F0531055L208.0	281+12	38'-8"	733.00	**	22'-0"	**	10'-0"	300 Sq. Ft.	LEFT.
5F0571055R183.5	235+00	38'-8"	748.72	**	22'-0"	**	10'-0"	300 Sq. Ft.	LEFT.
3F0381057L287.2	424+80	38'-8"	653.29	**	22'-0"	**	10'-0"	300 Sq. Ft.	LEFT.
3F0271057R258.1	1704+05	38'-8"	747.75	**	22'-0"	**	10'-0"	300 Sq. Ft.	LEFT.

TRUSS TYPE	MAXIMUM TOTAL DMS SIGN CABINET AREA
III-F-A	300 Sq. Ft.

Maximum DMS weight = 5000 LB.



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.

- ① After adjustments to level truss and insure adequate vertical clearance, all top and bottom leveling nuts shall be tightened against the base plate with a minimum torque of 200 lb.-ft. Stainless steel mesh shall then be placed around the perimeter of the base plate. Secure to base plate with stainless steel banding.
- ② Centerline cabinet must be located at centerline of column.
- * 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
WIND LOADING: 30 p.s.f. normal to DMS Cabinet Area and truss elements not behind sign Loading Diagram.
WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES

FIELD UNITS
F_c = 3,500 p.s.i.
f_y = 60,000 p.s.i. (reinforcement)

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

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

All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W* (M183, M223 Gr. 50, or M222). Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer.

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

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

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

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

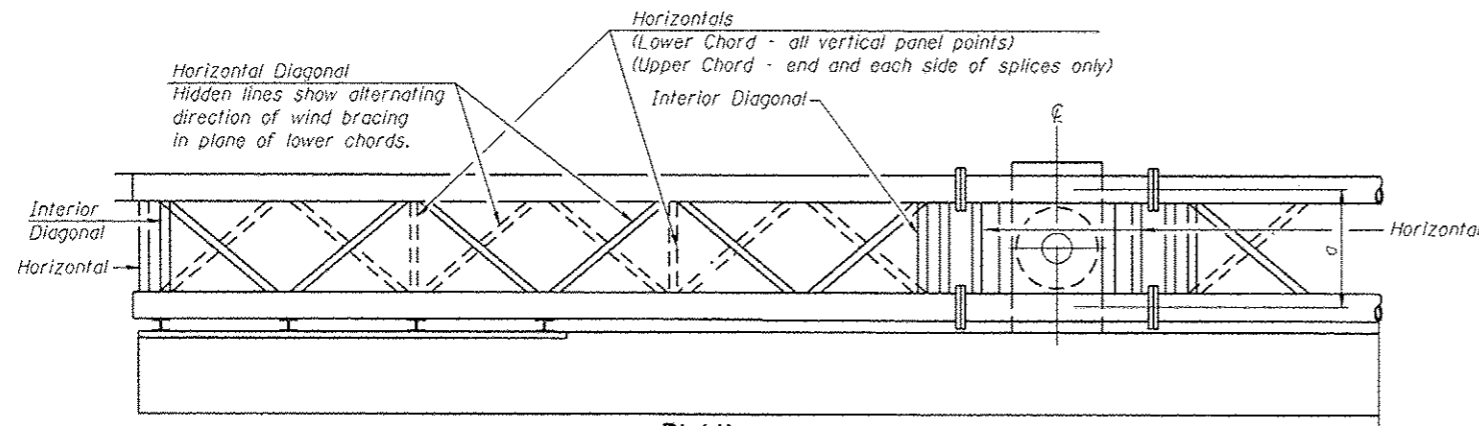
ANCHOR RODS: Shall conform to ASTM F1554 Gr. 105.

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

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

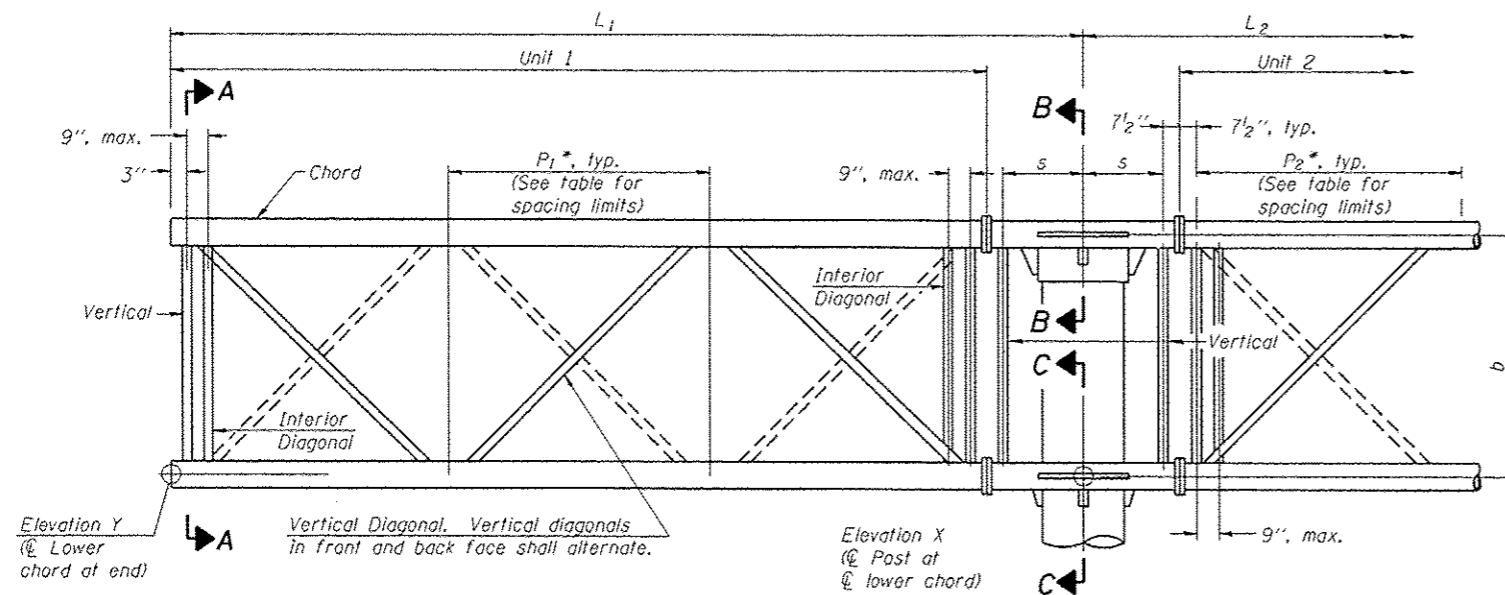
OSF-A-1-DMS 8-21-13

FILE NAME : p:\11084E8109\REG\Illinois\go-IPWID07\0	USER NAME : woodshankv1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BUTTERFLY SIGN STRUCTURES - ALTERNATE PLAN & ELEVATION FOR DMS - ALUMINUM TRUSS & STEEL POST	F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLDT SCALE : 100.0000 / 1 in.	DRAWN: 08/26/2017 - htd-detailed.dgn	CHECKED -	REVISED -			VAR	03 DMS 2016	VARIOUS	45	24	
PLDT DATE : 2/21/2017	DATE -	REVISED -	REVISED -			CONTRACT NO. 66E97					
Default						SCALE:	SHEET 4 OF 13 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	



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

PLAN
(Walkway not shown)



ELEVATION

(Sign and walkway omitted for clarity)

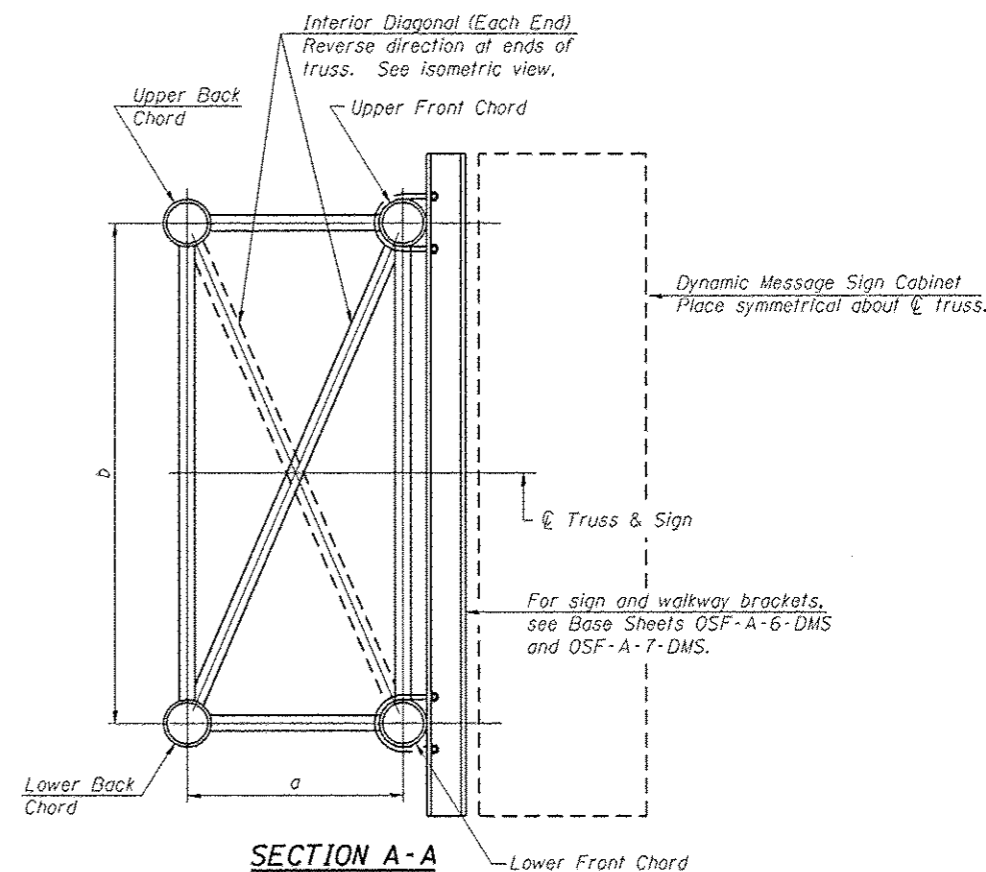
TYPICAL TRUSS UNIT

For Section B-B and Section C-C, see Base Sheet OSF-A-3-DMS

TRUSS UNIT TABLE

Truss Type	Dimension "a"	Dimension "b"	Dimension "s"	Limits for Panel Spacing (P)*	Up. & Low. Chord		Verticals; Horizontals; Vertical Horizontals; and Interior Diagonals	
					O.D.	Wall		
III-F-A	36"	84"	21"	48" min. to 66" max.	7"	3/8"	3 1/2"	3/8"

$$*P = \frac{L-s-1'-6''}{\# \text{ Panels}}$$



Structure Number	Station	Truss Type	L ₁	L ₂	Number of Panels Unit 1	Panel Length (P ₁)*	Number of Panels Unit 2	Panel Length (P ₂)*
3F0061080R041.9	317+50	III-F-A	21'-4"	17'-4"	4	54"	3	56"
3F0061080L065.8	1618+50	III-F-A	21'-4"	17'-4"	4	54"	3	56"
3F0501039L073.9	829+98	III-F-A	21'-4"	17'-4"	4	54"	3	56"
3F0501039R060.3	1110+00	III-F-A	21'-4"	17'-4"	4	54"	3	56"
3F0531055L208.0	281+12	III-F-A	21'-4"	17'-4"	4	54"	3	56"
5F0571055R183.5	235+00	III-F-A	21'-4"	17'-4"	4	54"	3	56"
3F0381057L287.2	424+80	III-F-A	21'-4"	17'-4"	4	54"	3	56"
3F0271057R258.1	1704+05	III-F-A	21'-4"	17'-4"	4	54"	3	56"

OSF-A-2-DMS 6-1-12

FILE NAME =	USER NAME = woodshankel	DESIGNED -	REVISED -
path = \\IL084EBID\ITC\Illinois\gov\PI\001\001\Documents\1001\Offices\District 3\Projects\036\DRAWINGData\036E97-shs-details.dgn		CHECKED -	REVISED -
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Default	PLOT DATE = 2/21/2017		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

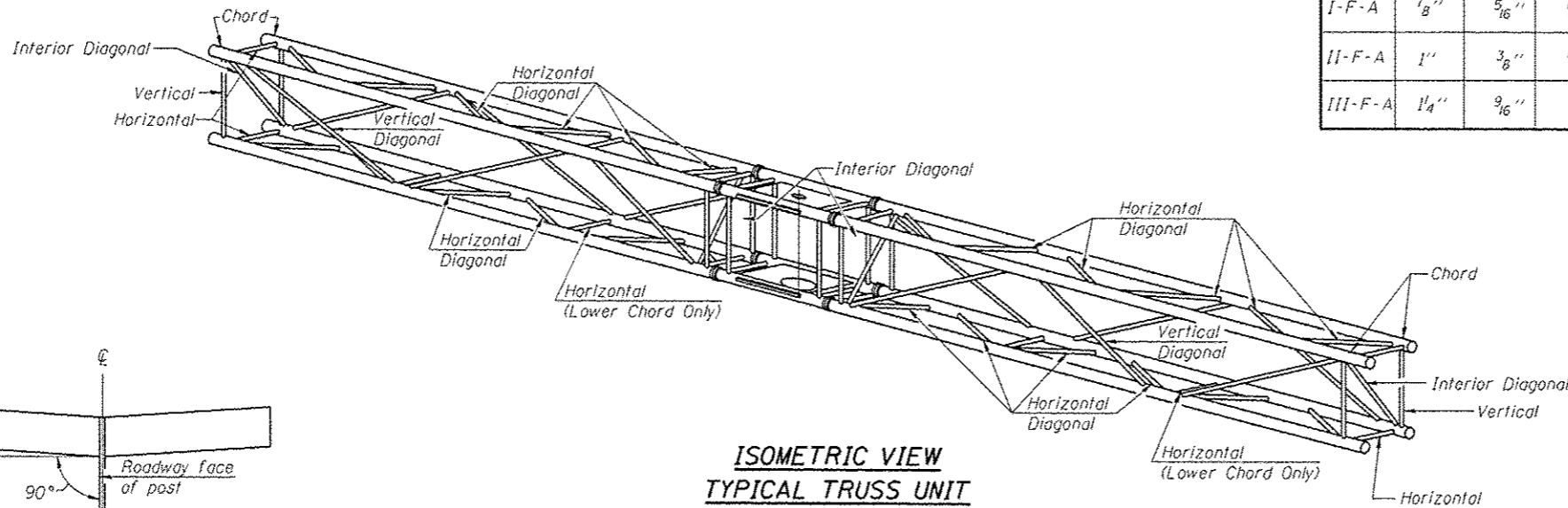
**BUTTERFLY SIGN STRUCTURES - ALTERNATE TRUSS DETAILS FOR DMS
ALUMINUM TRUSS & STEEL POST**

SCALE: SHEET 5 OF 13 SHEETS STA. TO STA.

F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D3 DMS 2016	VARIOUS	45	25
CONTRACT NO. 66E97			ILLINOIS FED. AID PROJECT	

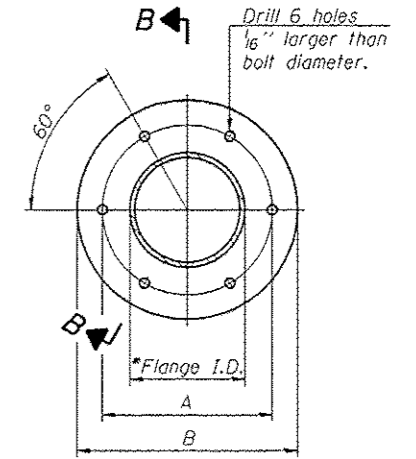
SHOP CAMBER TABLE

Unit Length L ₁ or L ₂	Shop Camber at End
15'	1 1/2"
16'-17'	1 3/4"
18'-20'	2"
21'-22'	2 1/4"
23'-25'	2 1/2"
26'-27'	2 3/4"
28'-30'	3"
31'-32'	3 1/4"
33'-35'	3 1/2"



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

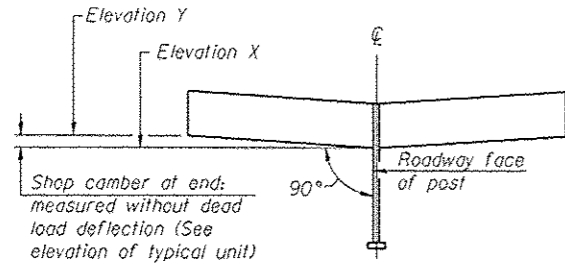
Truss Type	Bolts		Weld Sizes		A	B
	Dia.	W	W ₁			
I-F-A	7/8"	5/16"	1/4"		8 3/4"	11 3/4"
II-F-A	1"	3/8"	1/4"		11"	14 1/2"
III-F-A	1 1/4"	9/16"	5/16"		11 1/2"	15"



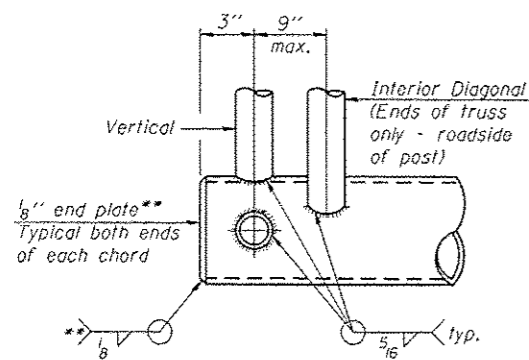
SPlicing FLANGE

ASTM B221, Alloy 6061-T6
or ASTM B209, Alloy 6061-T651

* To fit O.D. of Chord with maximum gap of 1/16"

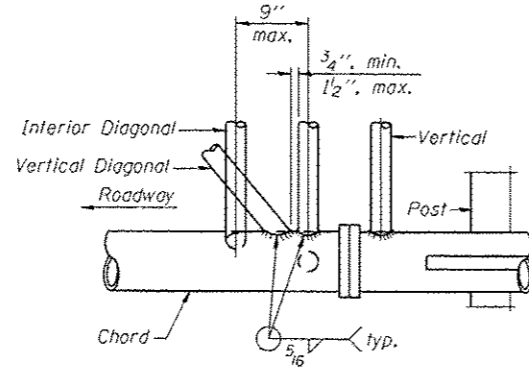


CAMBER DIAGRAM
(For Fabrication Only)

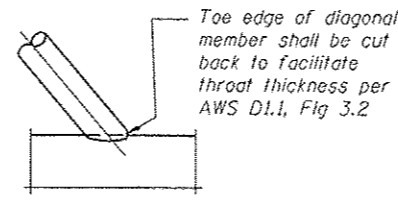


BUTTERFLY END JOINT DETAIL

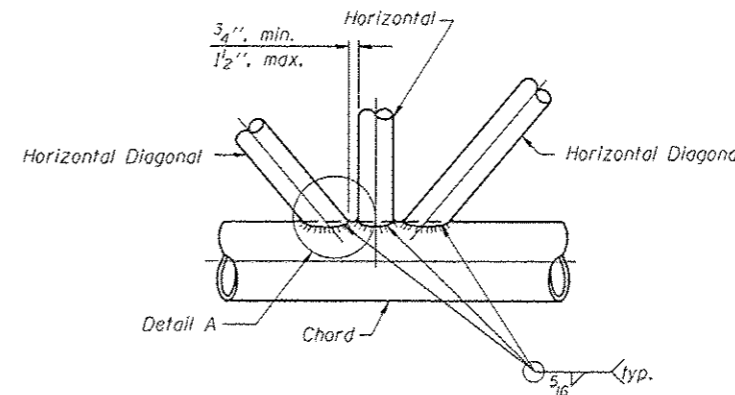
** Contractor may alternatively use standard aluminum drive-fit cap to close ends.
1/2" Ø Drain hole in end plate / drive-fit cap.



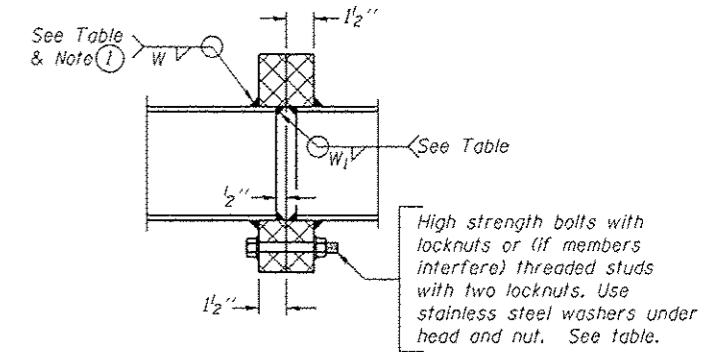
POST END JOINT DETAIL



DETAIL A



TRUSS INTERIOR JOINT DETAIL



SECTION B-B

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

OSF-A-2A

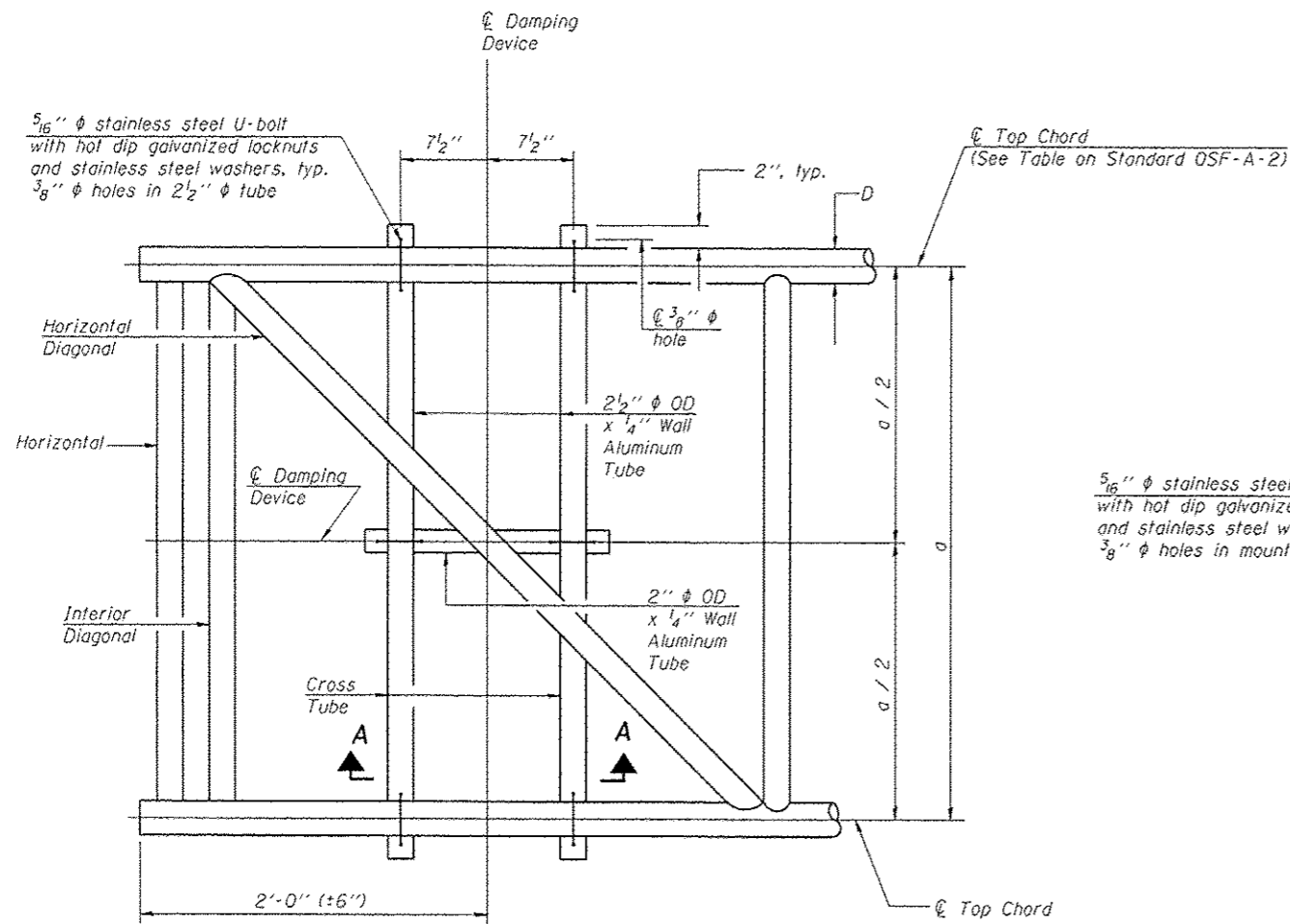
6-1-12

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

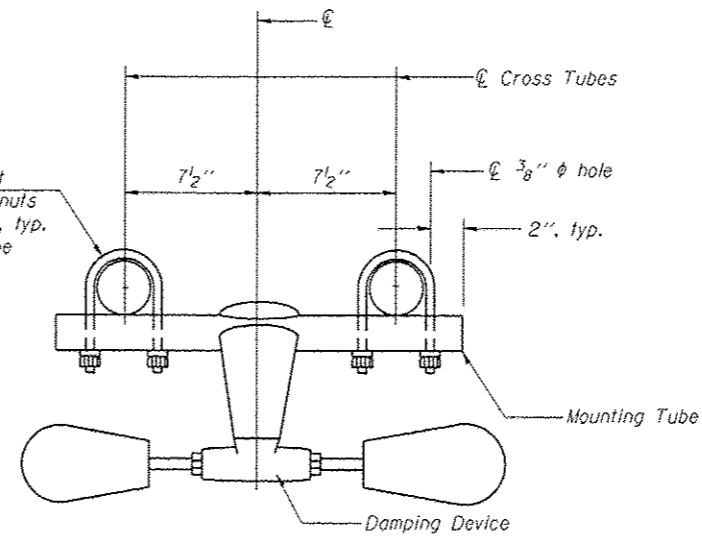
BUTTERFLY SIGN STRUCTURES - TRUSS DETAILS
ALUMINUM TRUSS & STEEL POST

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D3 DMS 2016	VARIOUS	45	25
CONTRACT NO. 66E97			ILLINOIS FED. AID PROJECT	

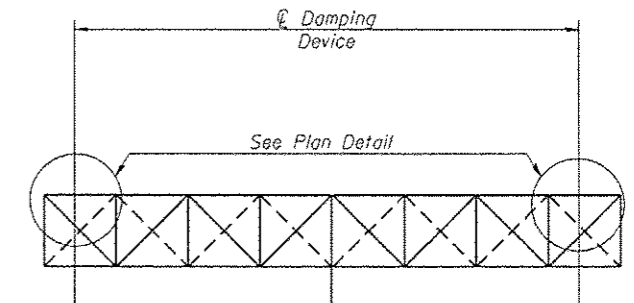
SCALE: SHEET 6 OF 13 SHEETS STA. TO STA.



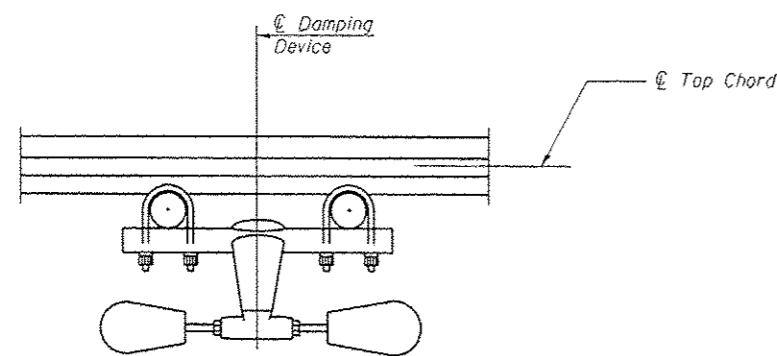
PLAN DETAIL



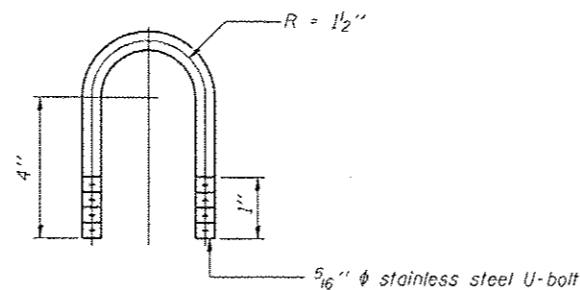
TRUSS DAMPING DEVICE CONNECTION DETAIL



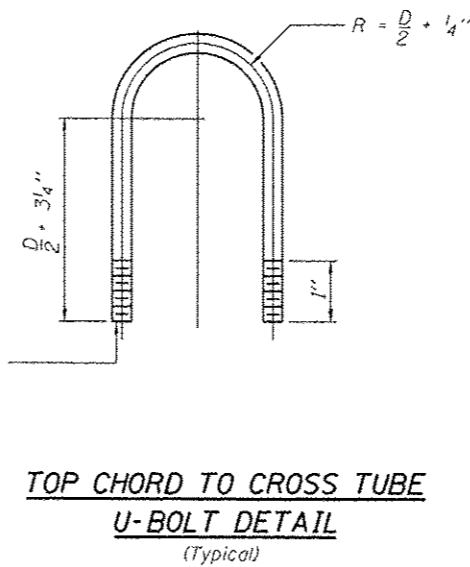
ELEVATION
Aluminum Butterfly Sign Structure



SECTION A-A



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL
(Typical)



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

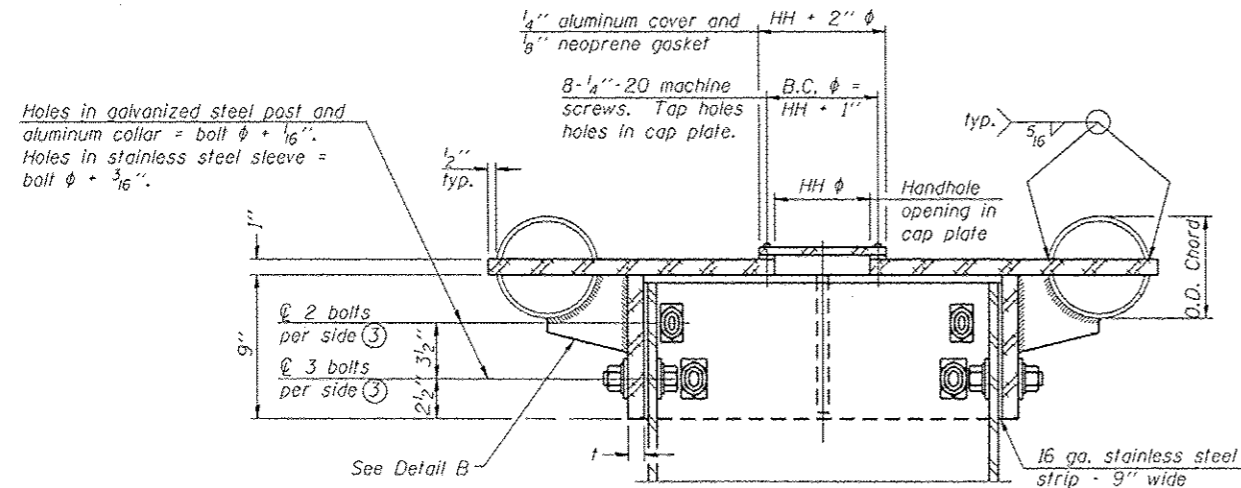
GENERAL NOTES

- 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

OSF-A-D

6-1-12

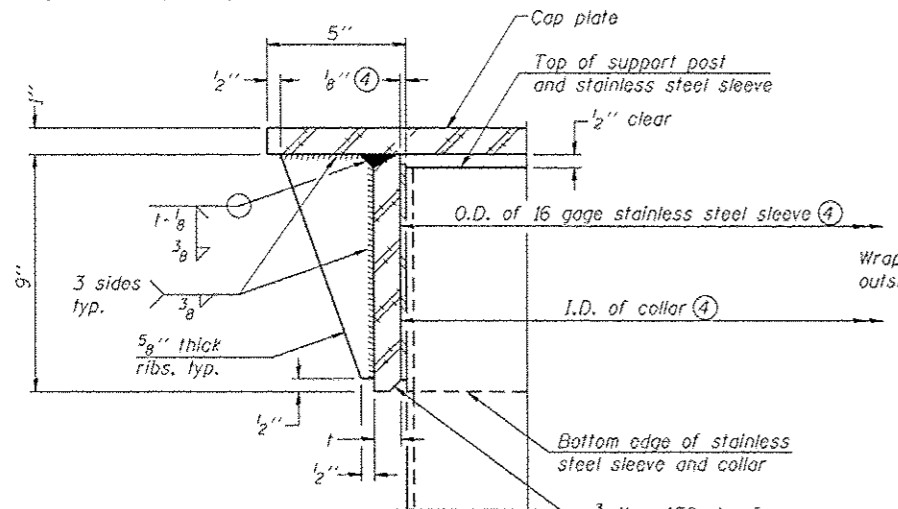
FILE NAME :	USER NAME :	DESIGNED :	REVISED :	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BUTTERFLY SIGN STRUCTURE DAMPING DEVICE	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\110846BID\INTEG\illinois.gov\1100T\Documents\1100T Offices\District 3\Projects\036	woodshank1	DATA\0366E97\ght-details.dgn				VAR	D3 DMS 2016	VARIOUS	45	27
Default										CONTRACT NO. 66E97
										ILLINOIS FED. AID PROJECT
SCALE:					SHEET 7	OF 13 SHEETS	STA.	TO STA.		



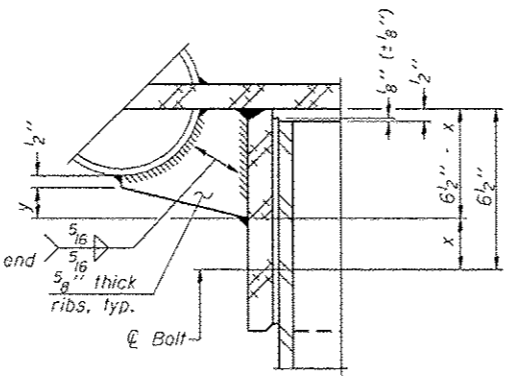
④ Collar I.D. shall be manufactured to correspond to O.D. of actual galvanized post and stainless steel sleeve plus 1/8" (±1/16"). Maximum gap between post and collar at any location equals 1/8" before tightening bolts.

SECTION B-B

Bolts, washers (including contoured washers), and locknuts shall be stainless steel.

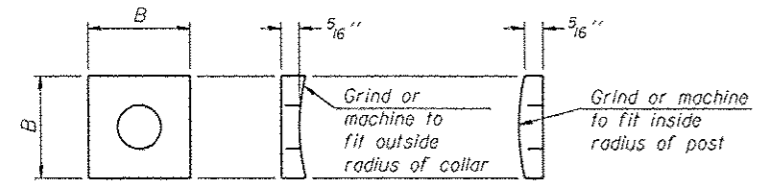


DETAIL A
(Two locations)



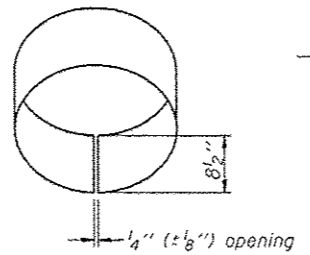
DETAIL B

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



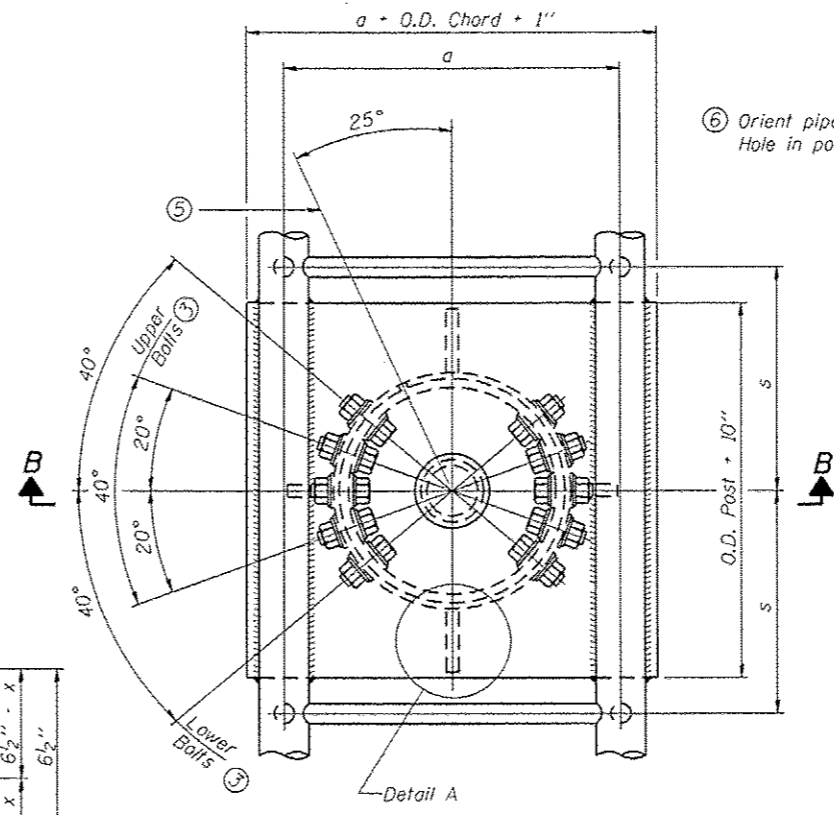
CONTOURED WASHERS

Bolt Size	Contoured Washers	
	Hole Dia.	B
7/8"	1"	2 1/2"
1"	1 1/8"	3"
1 1/4"	1 3/8"	3 1/4"



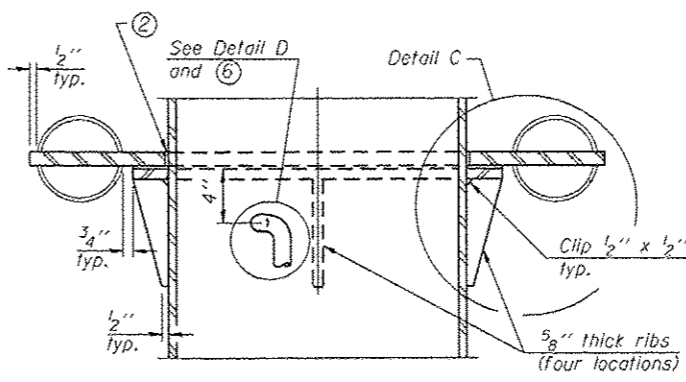
DETAIL OF STAINLESS STEEL SLEEVE

Weld to post after galvanizing. (Prepare post surface to insure tight, uniform fit and allow welding.) Welds to be 1/2" long at 6" cts. along top edge and at 1/4" opening.

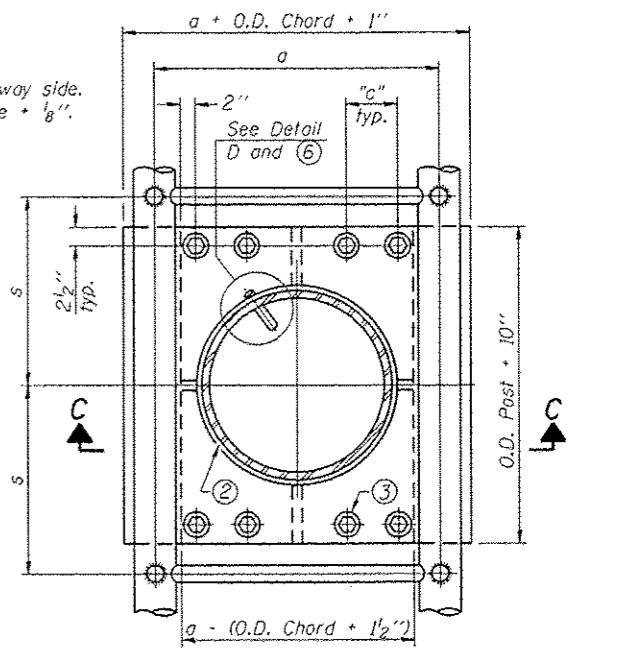


PLAN VIEW - TOP OF COLUMN

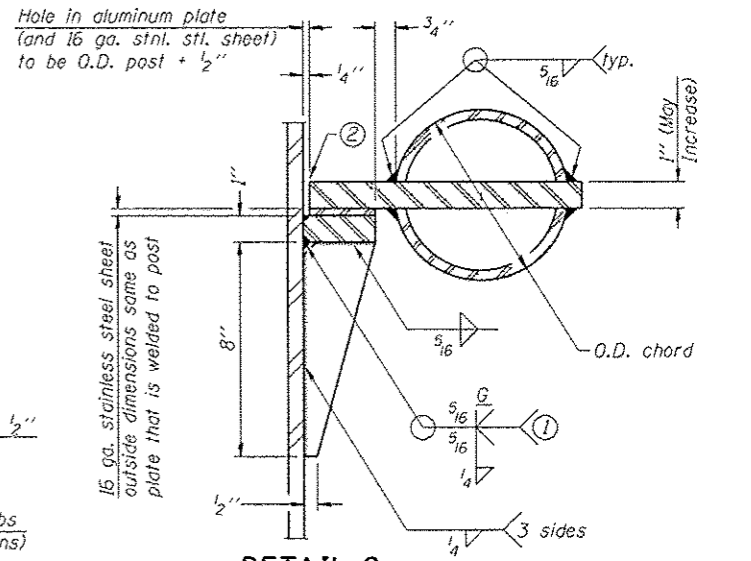
⑤ Optional full penetration weld in collar. (Two locations maximum....(180° apart)....X-ray or UT 100%)



SECTION C-C



SECTION THRU POST ABOVE LOWER CHORDS

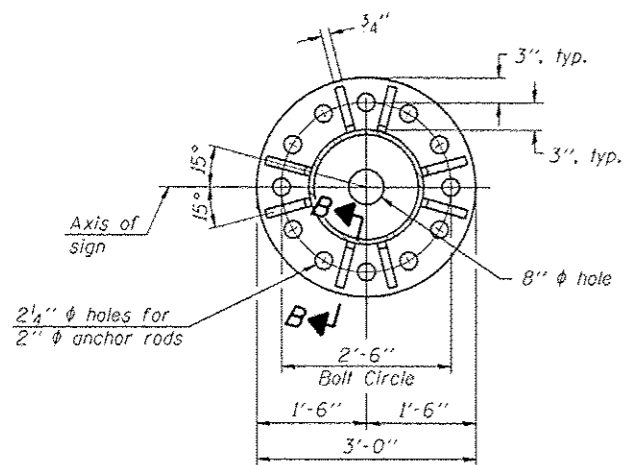


DETAIL C

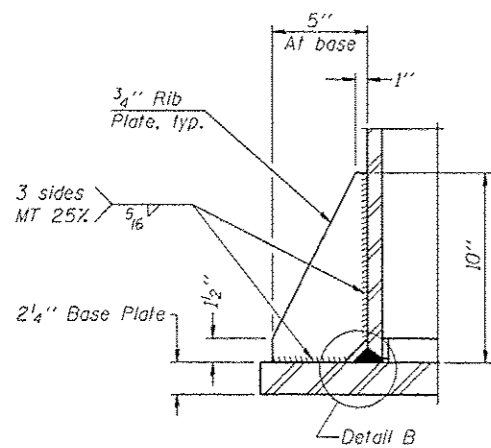
- ① Grind top if required to fully seal aluminum plate and stainless steel sheet.
- ② After tightening lower connection bolts, fill gap with non-hardening, silicone caulk suitable for exterior exposure and acceptable to the Engineer. Cost is included in Overhead Sign Structure Butterfly.

Truss Type	Post Size	Upper & Lower Connection Bolt Diameter ③	Lower Juncture Bolt Spacing Dimension "c" ③	Opening in Cap Plate "HH"	Collar Thickness (t)	Side Ribs	
						x	y
I-F-A	16" φ (B3#/')	7/8"	3 1/4"	8"	5/8"	1 3/4"	2 1/4"
II-F-A	2 1/4" φ (125#/')	1"	3 1/2"	12"	7/8"	2"	1 1/4"
III-F-A	2 1/4" φ (125#/')	1 1/4"	3 1/2"	12"	7/8"	2"	1"

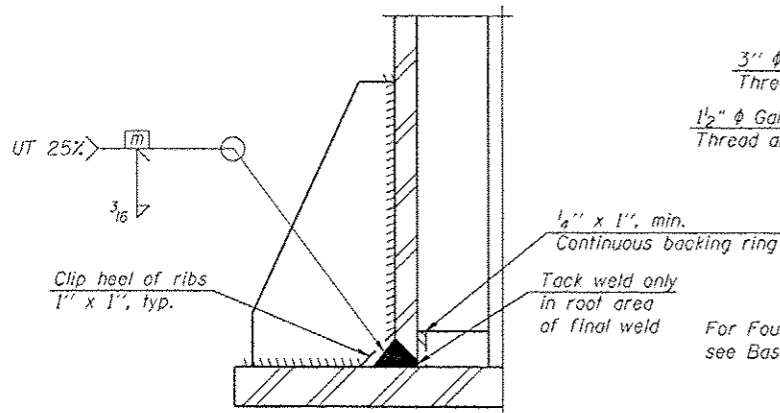
③ Upper and lower connection bolts in collar and bolts at lower chord connection must be high strength with matching locknuts. Connection bolts shall have two stainless steel flat washers each.



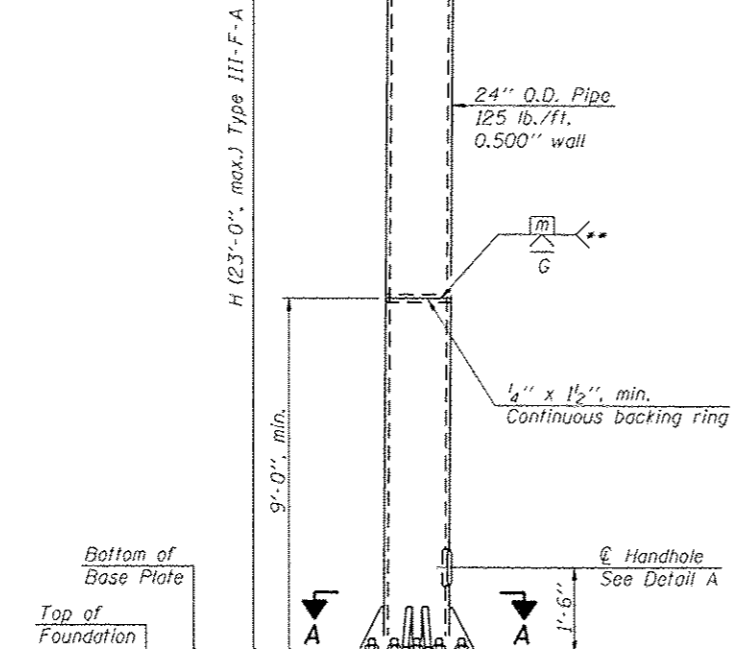
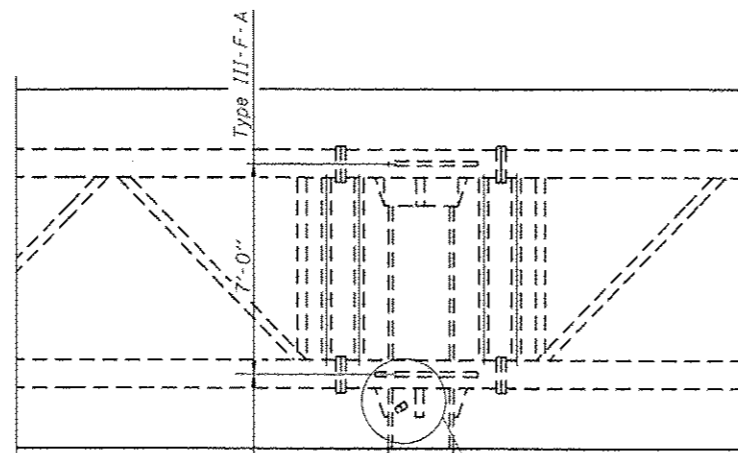
SECTION A-A



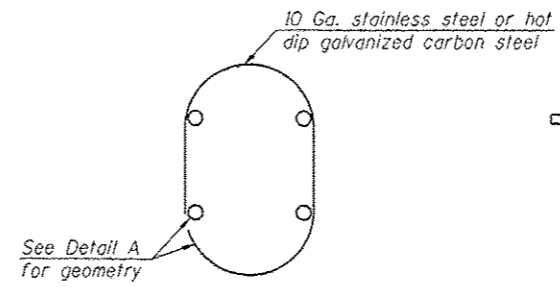
SECTION B-B



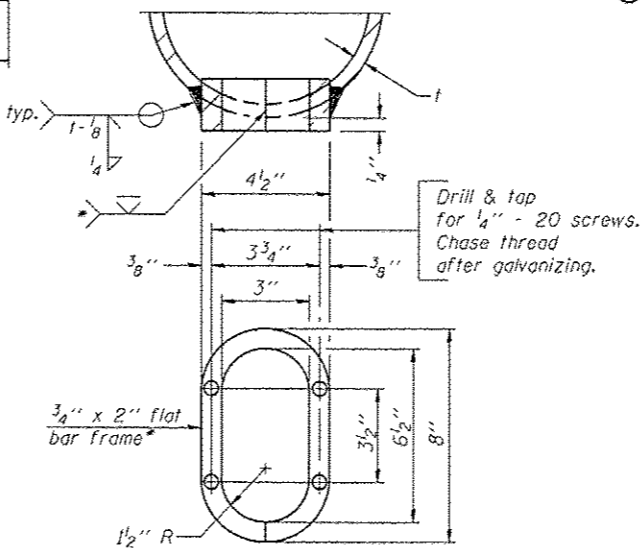
DETAIL B
(Typical rib)



FRONT ELEVATION



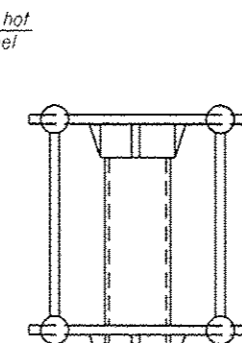
HANDHOLE COVER



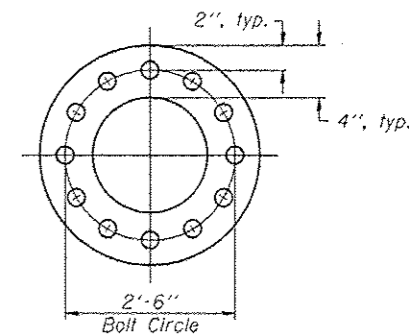
DETAIL A

Provide 8" x 4 1/2" cover. Outside corners = 2 1/4" radius. Provide 4-5/16" diameter holes in for 1/4" - 20 round head hot dip galvanized or stainless steel machine screws. (See cover details.)

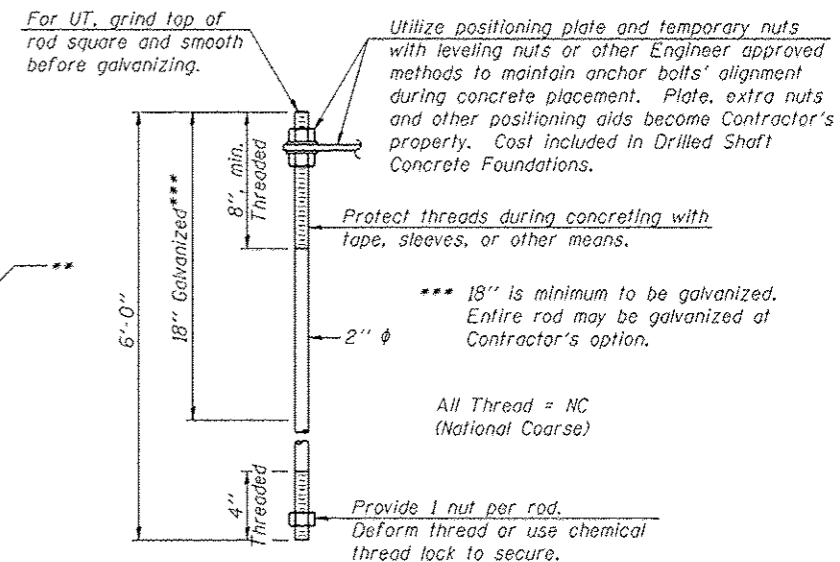
- * Bent bars may be butt welded top and bottom or bottom only. In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 μin or less.
- ** Butt welded joint in post is only allowed for post heights (H) over 20 ft. in length. If used, weld procedure must be preapproved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.



SIDE ELEVATION



SUGGESTED POSITIONING PLATE

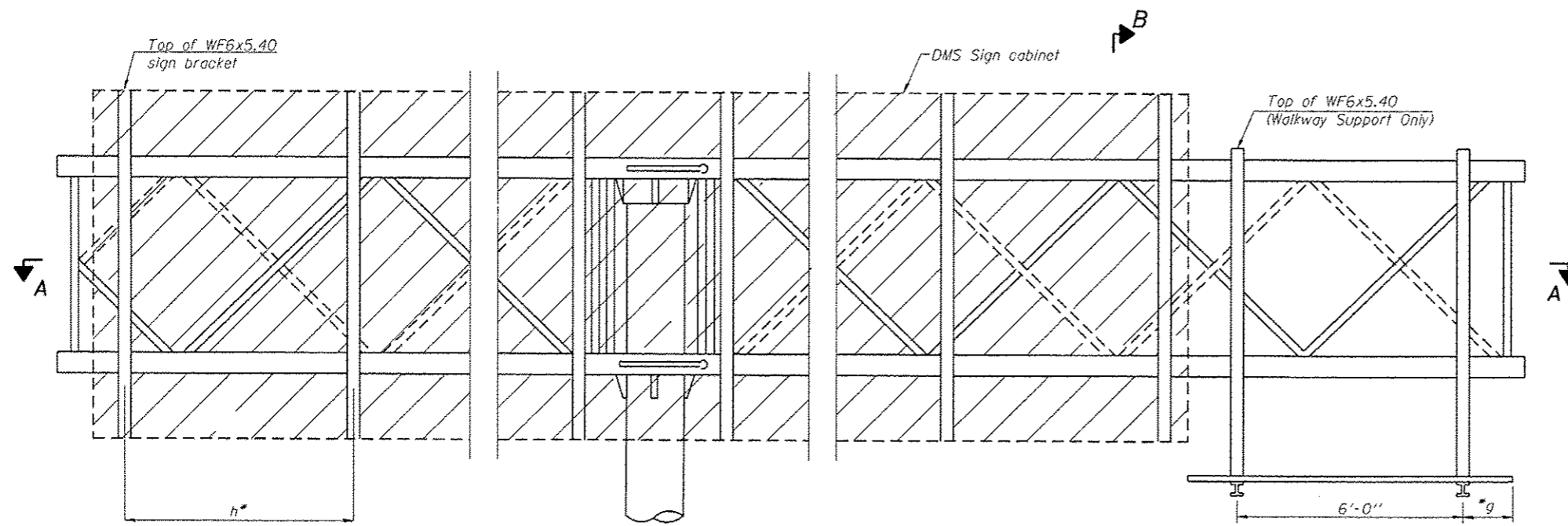


ANCHOR ROD DETAIL

Anchor rods shall conform to ASTM F1554 Grade 105. Galvanize the upper 18" (minimum) and associated AASHTO M291, Grade A, C or DH heavy hex nuts and hardened washers per AASHTO M232. No welding shall be permitted on rods. Provide a nut at bottom, a hexagon locknut and washer above base plate. Nuts shall each be tightened with 200 lb.-ft. minimum torque against base plate. Before or after threading, but before galvanizing, each anchor rod shall be ultrasonically tested (UT) by a Level II or III inspector, qualified in accord with ANSI guidelines, to insure no rejectable flaws exist in the upper 18" (tension criteria). Cost of testing included in Drilled Shaft Concrete Foundations.

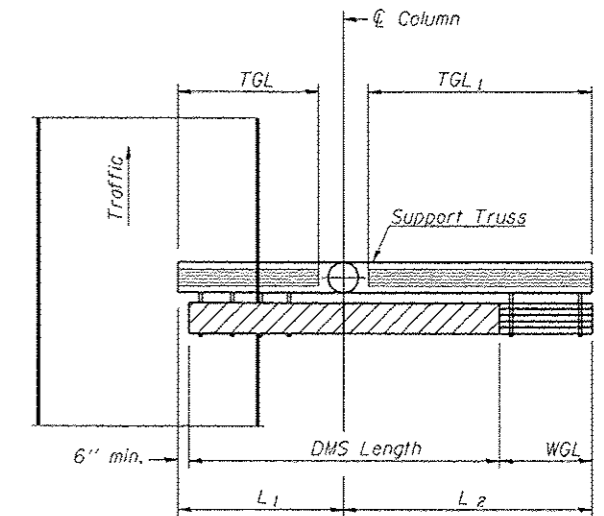
Structure Number	Station	H
3F0061080R041.9	317+50	23'-0"
3F0061080L065.8	1618+50	22'-0 1/2"
3F0501039L073.9	829+98	22'-0 1/2"
3F0501039R060.3	1110+00	22'-0 1/2"
3F0531055L208.0	281+12	22'-0 1/2"
5F0571055R183.5	235+00	22'-0 1/2"
3F0381057L287.2	424+80	23'-0"
3F0271057R258.1	1704+05	22'-0 1/2"

Note: "H" based on 15'-0" or actual sign height, whichever is greater.



TYPICAL FRONT ELEVATION
 With handrail omitted for clarity.
 For section B-B see base sheet OSF-A-7-DMS

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



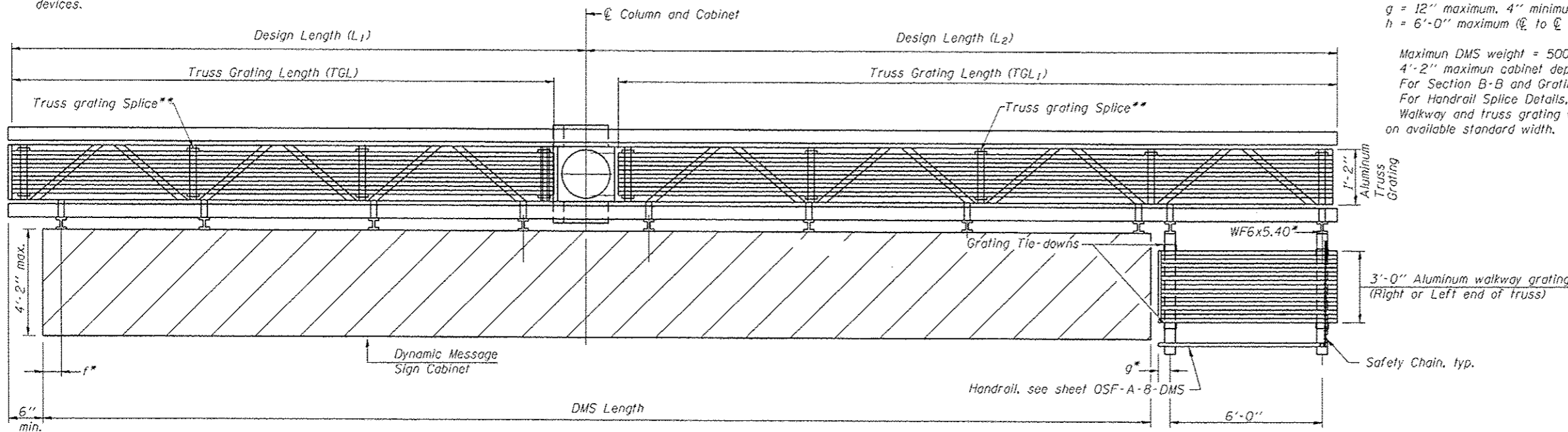
PLAN WALKWAY AND HANDRAIL SKETCH
 (Road plan beneath truss varies)
 Butterfly may be located in shoulder area.
 Walkway may be located at right or left end of truss.

Notes:

Space walkway brackets and sign brackets WF6x5.40 for efficiency and within limits shown:

- f = 12" maximum, 4" minimum (End of sign to ϕ of nearest bracket)
- g = 12" maximum, 4" minimum (End of walkway grating to ϕ of nearest support bracket)
- h = 6'-0" maximum (ϕ to ϕ 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 OSF-A-7-DMS.
 For Handrail Splice Details, see Base Sheet OSF-A-8-DMS.
 Walkway and truss grating width dimensions are nominal and may vary $\pm 1/2$ " based on available standard width.



SECTION A-A

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 splices and handrail joints placed as needed.
 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 Butterfly Sign Structure.

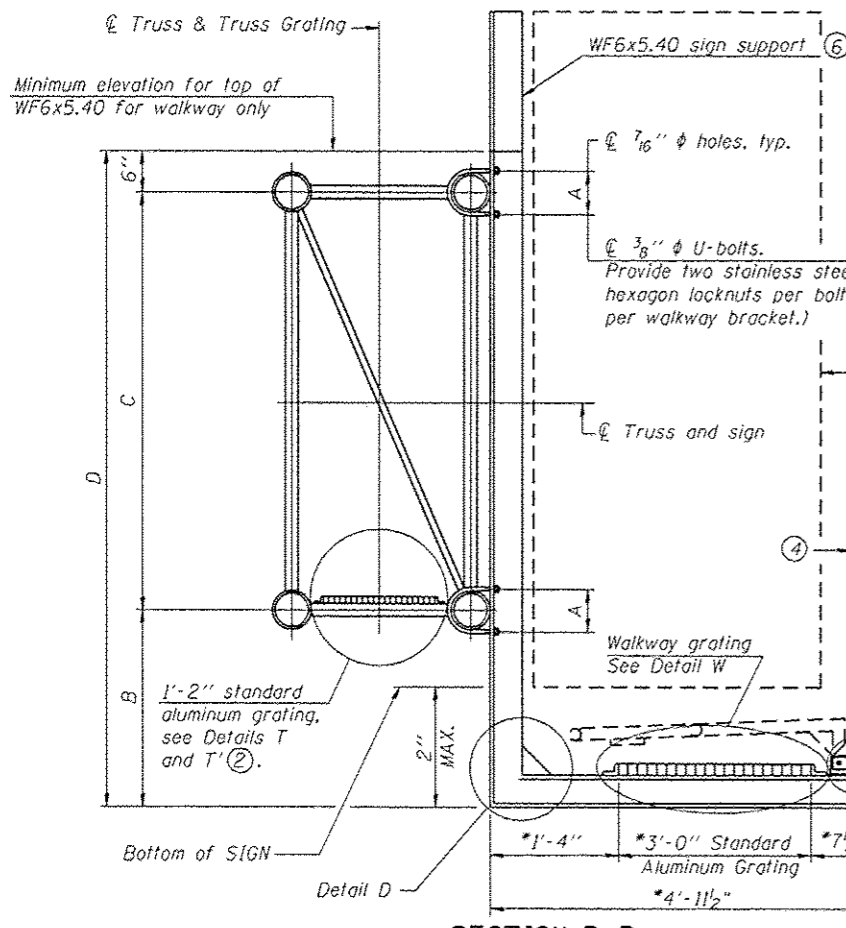
$$TGL = L_1 \text{ (or } L_2) - \left(\frac{\text{Post O.D.} + 6''}{2} \right)$$

BRACKET TABLE

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

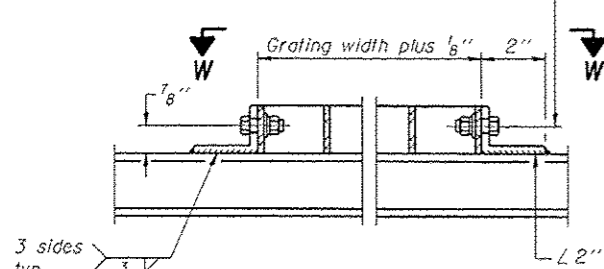
Structure Number	Station	DMS Length	TGL	TGL ₁	Walkway Location (Right or Left end of Truss)
3F0061080R041.9	317+50	30'-0"	19'-10"	15'-10"	LEFT
3F0061080L065.8	1618+50	30'-0"	19'-10"	15'-10"	LEFT
3F0501039L073.9	829+98	30'-0"	19'-10"	15'-10"	LEFT
3F0501039R060.3	1110+00	30'-0"	19'-10"	15'-10"	LEFT
3F0531055L208.0	281+12	30'-0"	19'-10"	15'-10"	LEFT
5F0571055R183.5	235+00	30'-0"	19'-10"	15'-10"	LEFT
3F0381057L287.2	424+80	30'-0"	19'-10"	15'-10"	LEFT
3F0271057R258.1	1704+05	30'-0"	19'-10"	15'-10"	LEFT

OSF-A-6-DMS 6-1-12



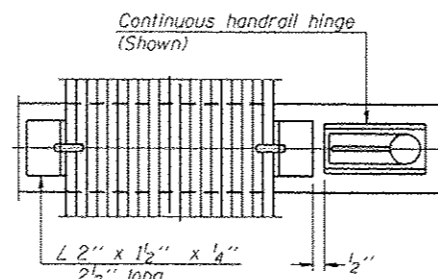
SECTION B-B

Drill (1) 3/8" φ holes in walkway for 5/16" φ stainless steel bolts, 1" long, each with one stainless steel flat washer and 2 stainless steel locknuts.



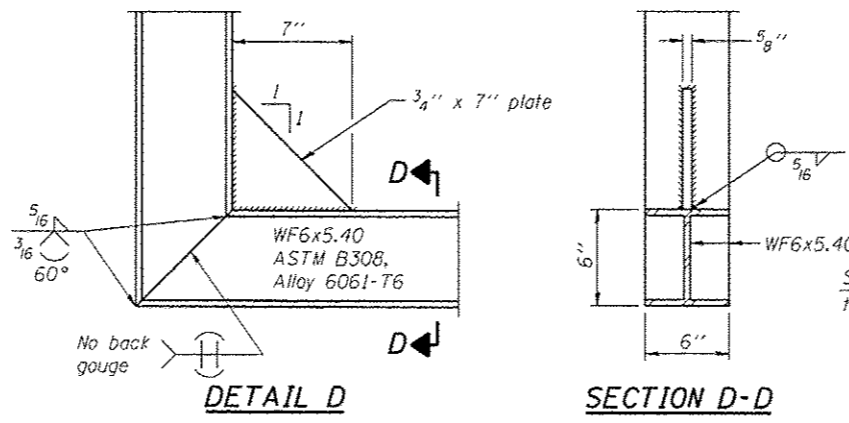
DETAIL W
(Walkway grating)

* Bracket and grating dimensions are nominal and will vary based on actual DMS cabinet dimensions plus manufacturers mounting device.



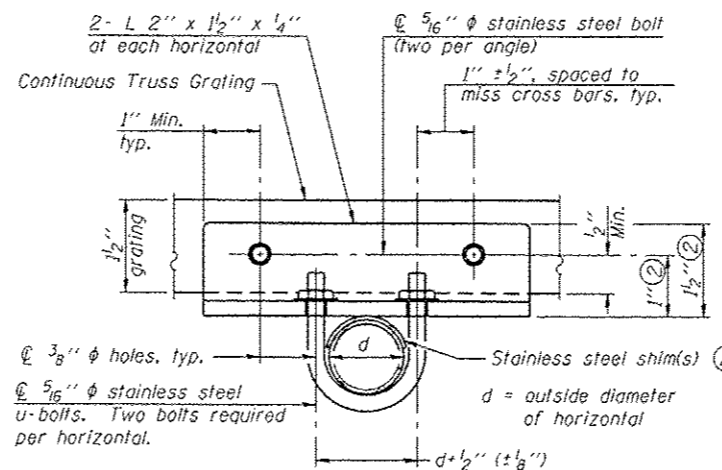
(CONTINUOUS WALKWAY GRATING)

SECTION W-W



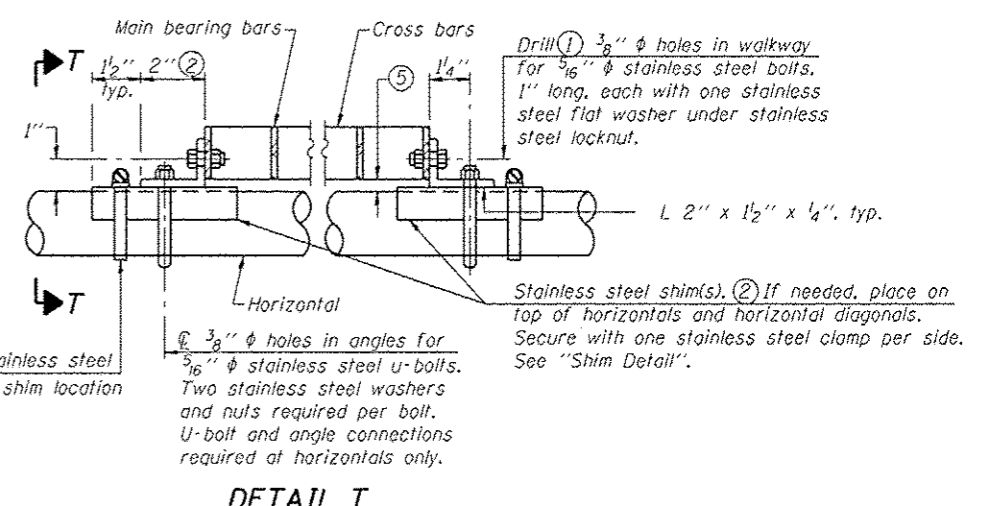
DETAIL D

SECTION D-D

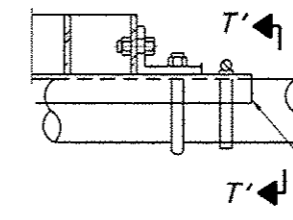


SECTION T-T

(AT WALKWAY GRATING SPLICE)

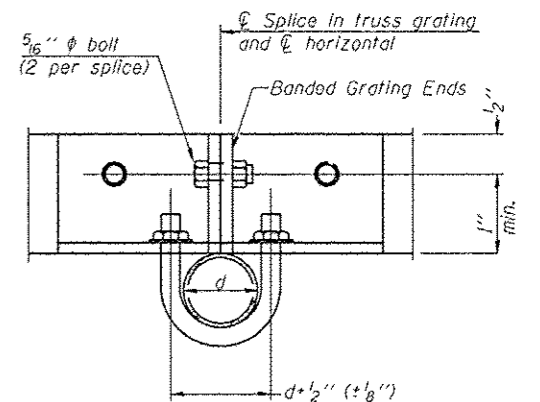


DETAIL T
(Continuous Truss grating)

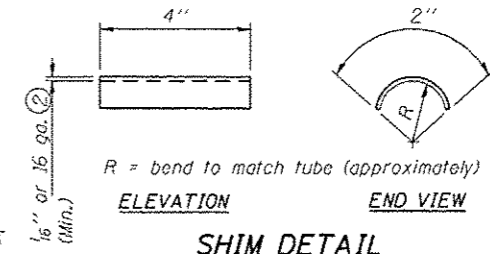


DETAIL T'
(Truss grating splice)

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



SECTION T'-T'



SHIM DETAIL

SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

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

OR

Aluminum Grating with modified "I" 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.³ per bar, a depth of 1 1/2", spaced on 1 3/16" centers.

Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

- ① Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- ② Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
- ③ If Handrail Joint present, weld angle to WF(A-N)4 and 1/4" extension bars. (See Base Sheet OSF-A-8)

- ④ 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.
- ⑤ Tube to grating gap may vary from 0 to 1/2" max. to align walkway, allow for camber, etc.
- ⑥ Cabinet manufacturer must design and supply hardware for connection of cabinet to WF6's. Bolts must be stainless steel or hot dip galvanized high strength per IDOT specifications.
- ⑦ Based on actual sign height, Ds, given on OSF-A-1-DMS.

Structure Number	Station	A	⑦ B	C	⑦ D
3F0061080R041.9	317+50	7 1/2"	0'-10"	7'-0"	8'-4"
3F0061080L065.8	1618+50	7 1/2"	0'-10"	7'-0"	8'-4"
3F0501039L073.9	829+98	7 1/2"	0'-10"	7'-0"	8'-4"
3F0501039R060.3	1110+00	7 1/2"	0'-10"	7'-0"	8'-4"
3F0531055L208.0	281+12	7 1/2"	0'-10"	7'-0"	8'-4"
5F0571055R183.5	235+00	7 1/2"	0'-10"	7'-0"	8'-4"
3F0381057L287.2	424+80	7 1/2"	0'-10"	7'-0"	8'-4"
3F0271057R258.1	1704+05	7 1/2"	0'-10"	7'-0"	8'-4"

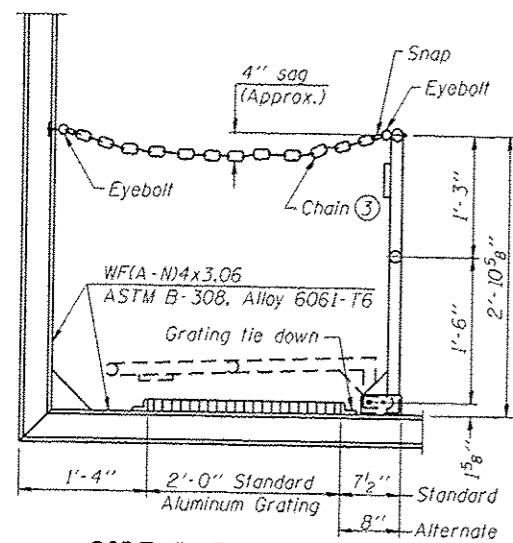
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTTERFLY SIGN STRUCTURES - ALTERNATE WALKWAY
DETAILS FOR DMS - ALUMINUM TRUSS & STEEL POST**

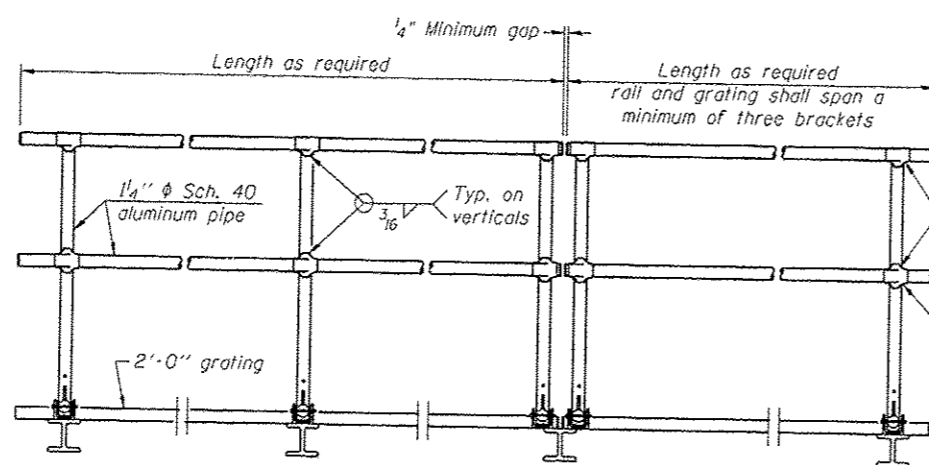
F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D3 DMS 2016	VARIOUS	45	31
CONTRACT NO. 66E97			ILLINOIS FED. AID PROJECT	

FILE NAME :	USER NAME :	DESIGNED :	REVISED :
p:\1\1094\BIBI\INTEG\Illinois.gov\FWID091\Documents\1001 Offices\District 3\Projects\036\DRAWING\036697-shd-details.dgn	wadshank		
Default	PLLOT SCALE :	CHECKED :	REVISED :
	100,0000 / in.		
	PLLOT DATE :	DATE :	REVISED :
	2/21/2017		

SCALE: SHEET 11 OF 13 SHEETS STA. TO STA.



SIDE ELEVATION
(Showing Safety Chain W/O Sign)

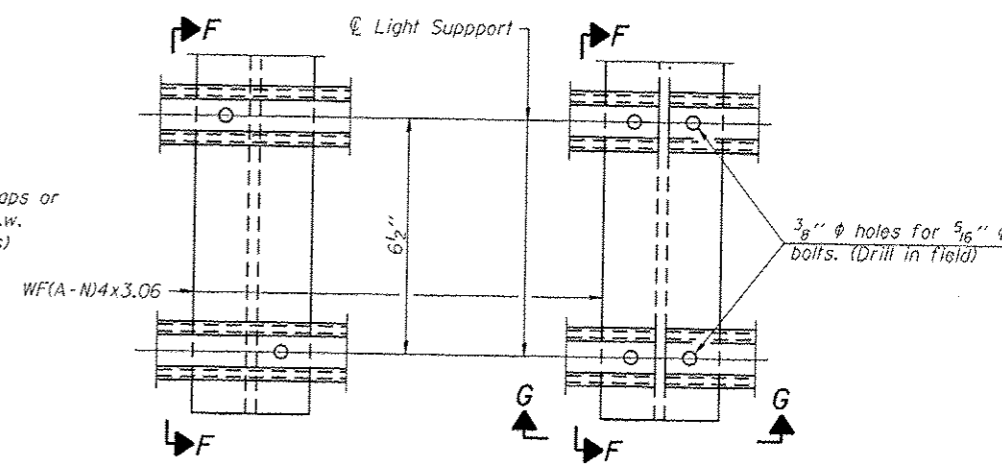


FRONT ELEVATION

HANDRAIL DETAILS

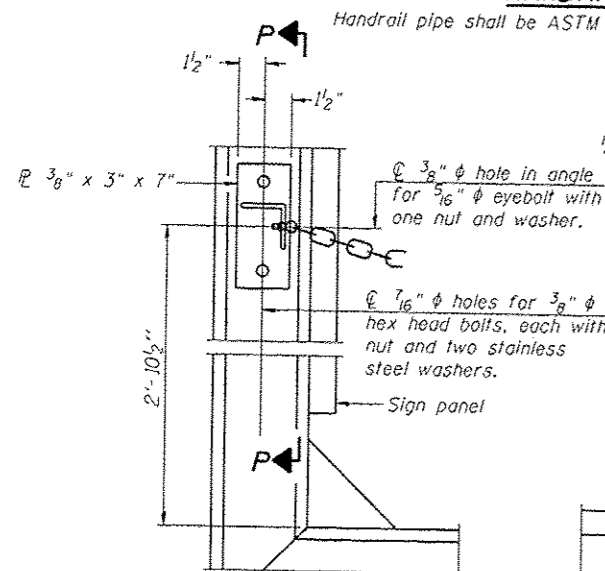
Handrail pipe shall be ASTM B241 or B429, Alloy 6063-T6 or Alloy 6061-T6.

- ① Install standard force-fit end caps or weld 1/8" end plates with 1/8" c.f.w. and grind smooth. (All rail ends)
- ② Horizontal handrail member shall be continuous thru fitting. Provide 1/16" hole in fitting for 3/8" bolt. Field drill 1/16" hole in horizontal rail member. Provide locknut and two stainless steel washers for bolt. (Use 5/16" eyebolts in 1/16" holes on top rail at ends only.)

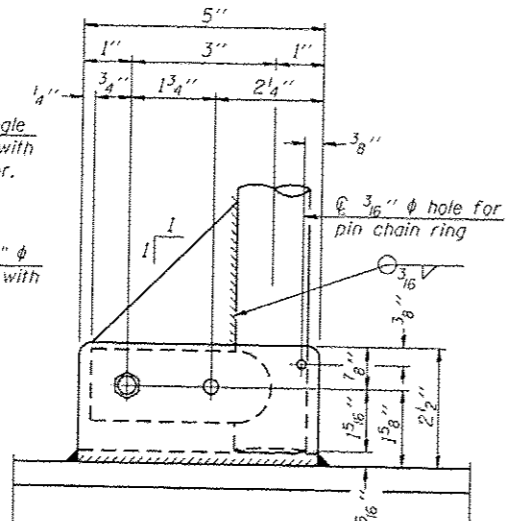


DETAIL F

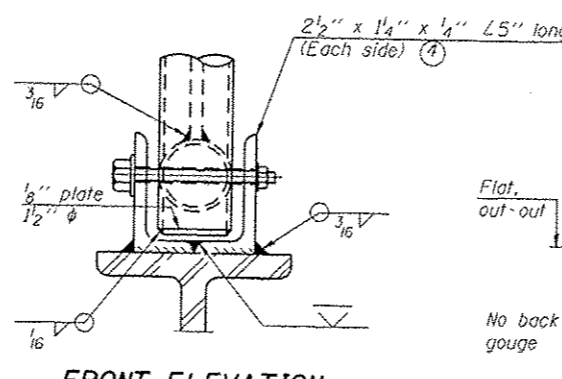
DETAIL G



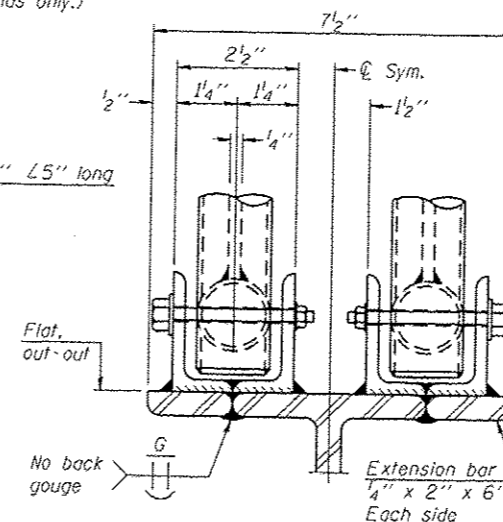
ALTERNATE SAFETY CHAIN ATTACHMENT
(With Sign Present)
Items not shown same as "Side Elevation" of "Handrail Details"



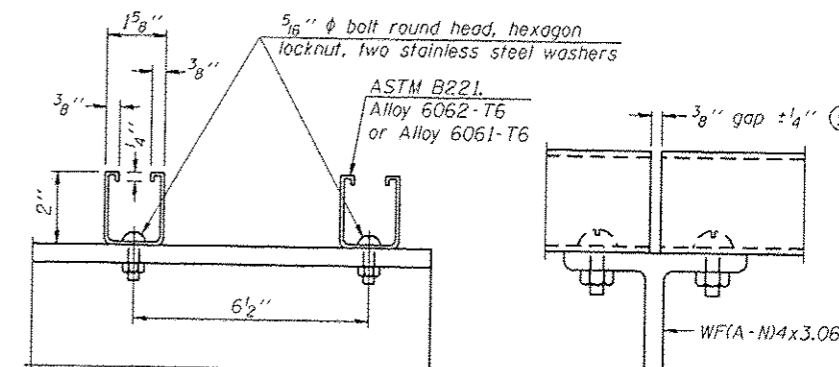
SIDE ELEVATION



FRONT ELEVATION
Details not shown same as "ELEVATION" at right.



ELEVATION AT HANDRAIL JOINT ④
Details not shown same as "FRONT ELEVATION"

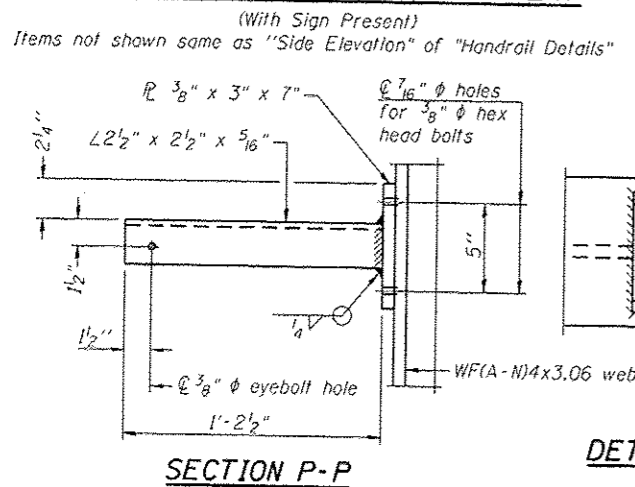


SECTION F-F

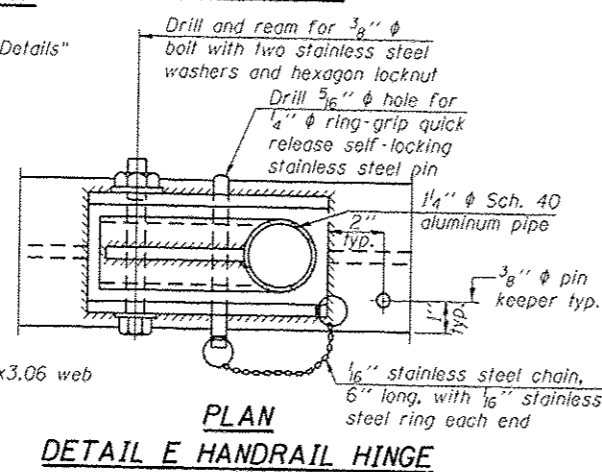
SECTION G-G

LIGHTING FIXTURE MOUNTS (IF REQUIRED)

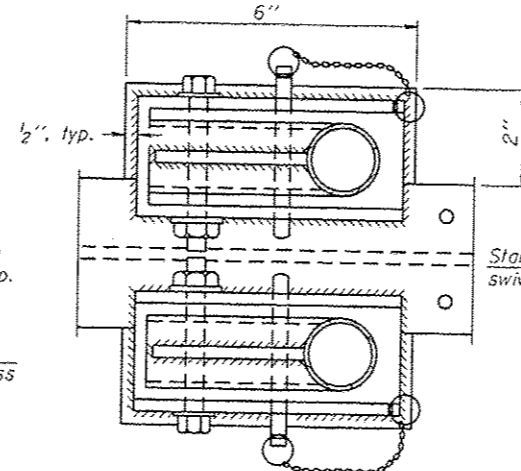
- ⑤ Field cut ends of light support channels shall be free of burrs or hazardous projections and coated with zinc-rich primer or equivalent.



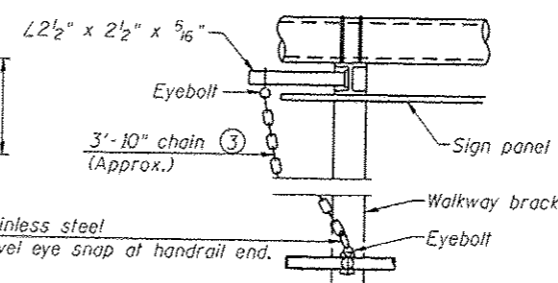
SECTION P-P



PLAN
DETAIL E HANDRAIL HINGE

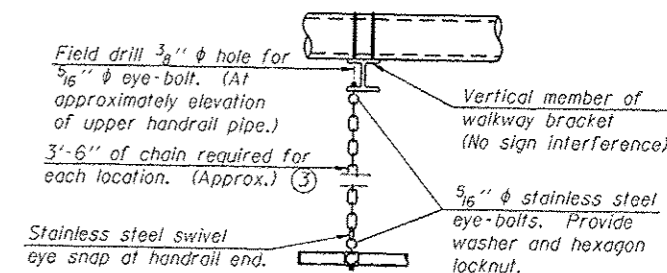


PLAN AT HANDRAIL JOINT
Details not shown same as "PLAN"



ALTERNATE SAFETY CHAIN ATTACHMENT
Details not shown similar to "Safety Chain" Details
(Walkway omitted for clarity)

- ③ 3/16" 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.



SAFETY CHAIN

One required for each end of each walkway.

OSF-A-8

6-1-12

FILE NAME:	USER NAME:	DESIGNED:	REVISED:
PROJECT:	PROJECT:	PROJECT:	PROJECT:
DATE:	DATE:	DATE:	DATE:

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

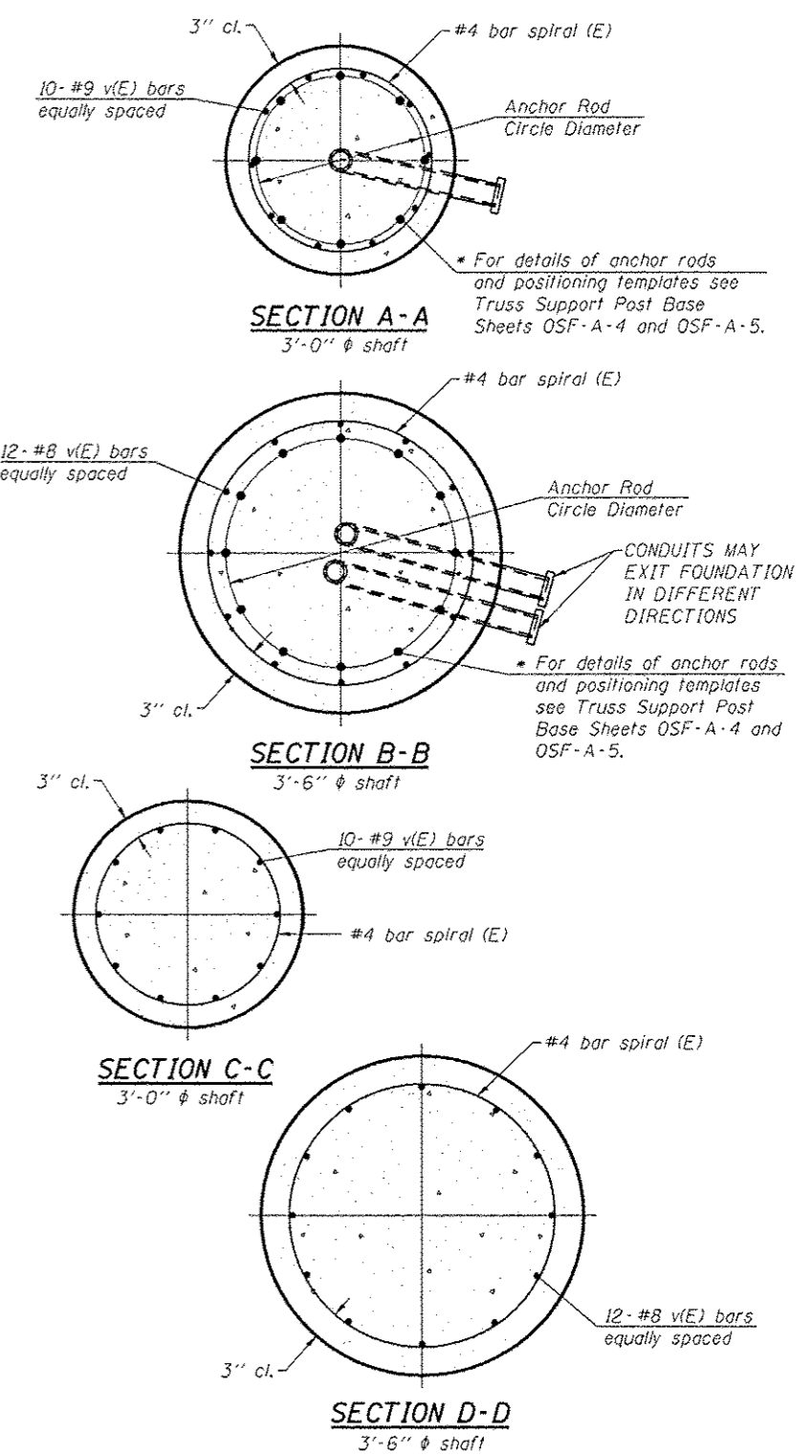
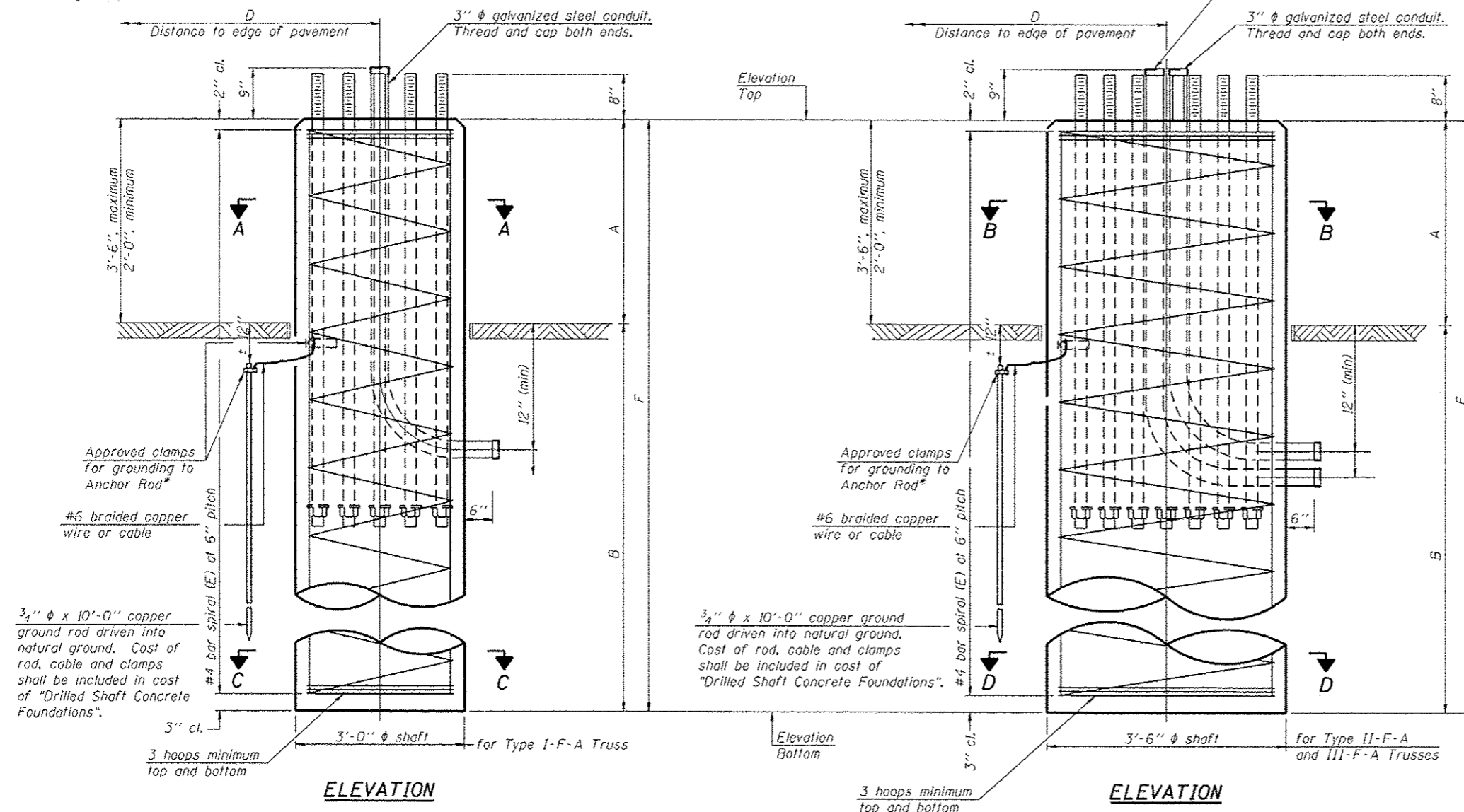
BUTTERFLY SIGN STRUCTURES - HANDRAIL DETAILS
ALUMINUM TRUSS & STEEL POST

SCALE: SHEET 12 OF 13 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D3 DMS 2016	VARIOUS	45	32
				CONTRACT NO. 66E97

ILLINOIS FED. AID PROJECT

* Grind anchor rod to bright finish at ground clamp location before installing clamp.



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

Truss Type	Post Base Sheet	Maximum Cantilever Length (ft)	Maximum Total Sign Area (sq ft)	Shaft Diameter (in)	"B" Depth (ft)	Anchor Rods No.	Anchor Rod Diameter (in)	Anchor Rod Circle Diameter (in)
I-F-A	OSF-A-4	25	200	3.0	17'-6"	8	2	22
II-F-A	OSF-A-5	30	400	3.5	22'-0"	12	2	30
III-F-A	OSF-A-5	35	400	3.5	24'-0"	12	2	30

Structure Number	Station	Truss Type	Shaft Diameter	Elevation Top	Elevation Bottom	*A	*B	F	Class DS Concrete Cubic Yards
3F0061080R041.9	317+50	III-F-A	3'-6"	662.87	632.08	2'-0"	28'-9 $\frac{1}{2}$ "	30'-9 $\frac{1}{2}$ "	11.0
3F0061080L065.8	1618+50	III-F-A	3'-6"	674.95	647.98	2'-0"	24'-11 $\frac{5}{8}$ "	26'-11 $\frac{5}{8}$ "	9.6
3F0501039L073.9	829+98	III-F-A	3'-6"	760.13	732.66	2'-0"	25'-5 $\frac{3}{8}$ "	27'-5 $\frac{3}{8}$ "	9.8
3F0501039R060.3	1110+00	III-F-A	3'-6"	653.61	626.48	2'-0"	25'-1 $\frac{1}{2}$ "	27'-1 $\frac{1}{2}$ "	9.7
3F0531055L208.0	291+12	III-F-A	3'-6"	733.35	706.30	2'-0"	25'-0 $\frac{5}{8}$ "	27'-0 $\frac{5}{8}$ "	9.6
5F0571055R183.5	235+00	III-F-A	3'-6"	749.00	721.70	2'-0"	25'-3 $\frac{3}{8}$ "	27'-3 $\frac{3}{8}$ "	9.7
3F0381057L287.2	424+80	III-F-A	3'-6"	649.47	623.37	2'-0"	24'-1 $\frac{1}{4}$ "	26'-1 $\frac{1}{4}$ "	9.3
3F0271057R258.1	1704+05	III-F-A	3'-6"	747.36	720.71	2'-0"	24'-7 $\frac{1}{8}$ "	26'-7 $\frac{1}{8}$ "	9.5

*DIMENSIONS TAKEN FROM HIGH SIDE OF FOUNDATION



SOIL BORING LOG

ROUTE FAI 55 (I-55) DESCRIPTION Message Board - Southbound I-55, Mile Post 208.0, Station 281+12 LOGGED BY Larry Myers
SECTION D3 Dynamic Message Sign 2016 LOCATION SW 1/4, SEC. 9, TWP. 29N, RNG. 6E, 3rd PM
Latitude 40.99135, Longitude -88.541292
COUNTY Livingston DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.	Station	DEPTH	BL	UCS	M	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	DEPTH	BL	UCS	M	
3F0531055L208.0	281+12	(ft)	(/6")	(tsf)	(%)	ft	ft	ft	ft	ft	ft	(ft)	(/6")	(tsf)	(%)	
Augered Shoulder Stone, Gravel Fill, Gray Silty Clay Loam Till Fill						Hard Gray Silty Clay Loam Till with Silt Pockets & Layers @ 20' (continued)						3				
729.61												4	4.4	17		
Hard Gray Silty Clay Loam Till Fill												5	B			
727.11												4				
Hard Black Silty Clay Loam												5	4.1	19		
725.11												6	B			
Hard Gray & Brown Silty Clay												7	>4.5	17		
722.61												10	P			
Hard Brown & Gray Silty Clay Loam Till												4				
717.61												5	4.2	20		
Hard Gray Silty Clay Loam Till with Silt Pockets & Layers @ 20'												6	S			
695.61												5				
End of Boring												6	4.1	18		
												4	4.2	18		
												5	S			
												6				
												7	6.0	18		
												8	S			

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

BBS, form 137 (Rev. 8-99)



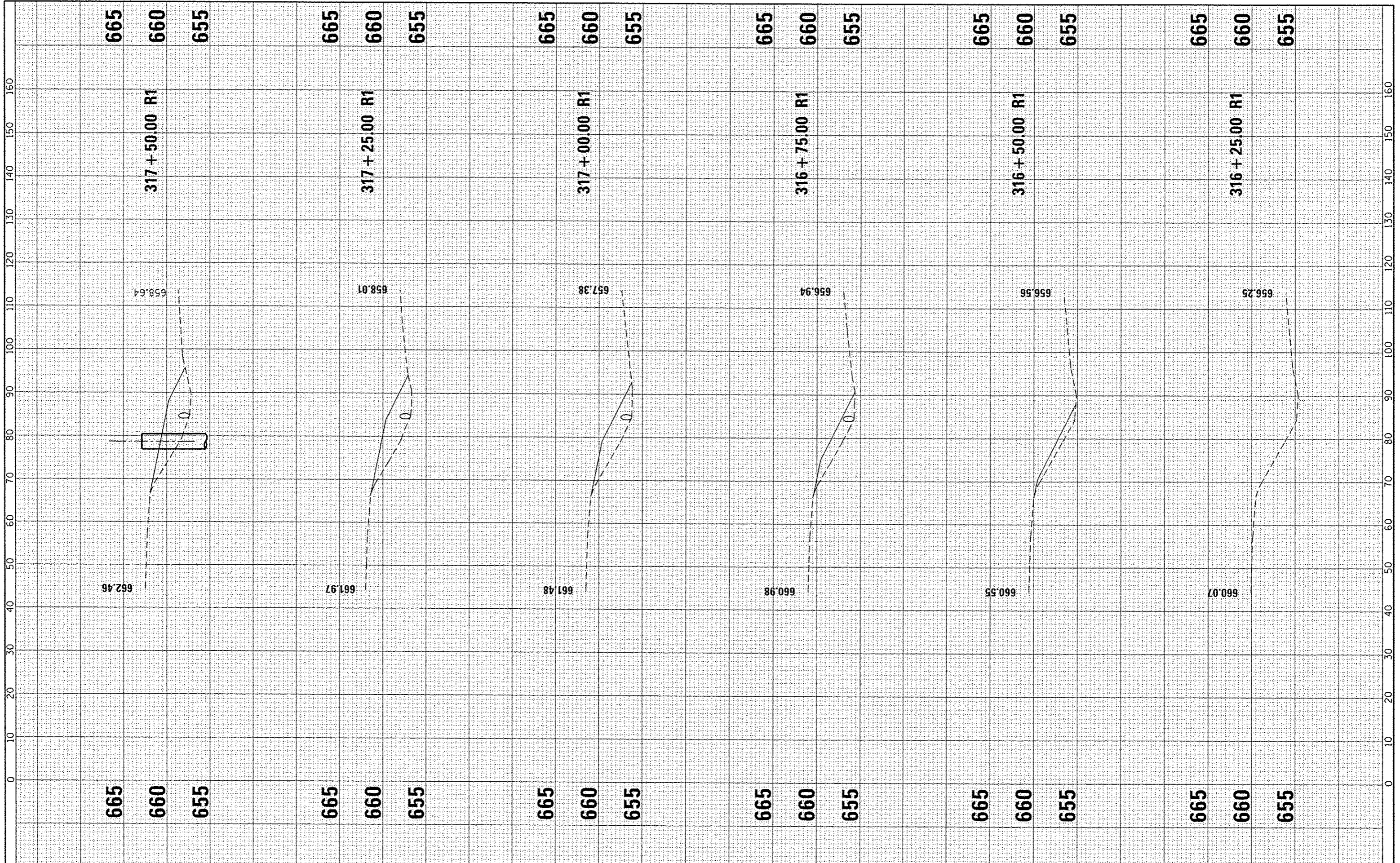
SOIL BORING LOG

ROUTE FAI 55 (I-55) DESCRIPTION Message Board - Northbound I-55, Mile Post 183.5, Station 235+00 LOGGED BY Larry Myers
SECTION D3 Dynamic Message Sign 2016 LOCATION SW 1/4, SEC. 22, TWP. 26N, RNG. 4E, 3rd PM
Latitude 40.69846, Longitude -88.750321
COUNTY McLean DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.	Station	DEPTH	BL	UCS	M	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	DEPTH	BL	UCS	M	
3F0571055R183.5	235+00	(ft)	(/6")	(tsf)	(%)	ft	ft	ft	ft	ft	ft	(ft)	(/6")	(tsf)	(%)	
Augered Shoulder Stone, Brown Silty Clay Loam Till Fill						Hard Gray Silty Clay Loam Till (continued)						5				
745.36												6	4.4	16		
Hard Brown & Gray Silty Clay Loam Till												7	S			
												5				
												6	4.0	14		
												8	P			
												5				
												7				
												6	4.2	13		
												7	B			
												5				
												7	4.3	15		
												9	B			
												3				
												7	4.7	13		
												11	S			
735.86												7	4.7	13		
Hard Gray Silty Clay Loam Till												9	S			
												6				
												7	4.2	12		
												7	S			
												7				
												8	4.7	12		
												9	S			
												3				
												5	4.0	18		
												7	S			
												6				
												7	4.7	14		
												9	S			

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

BBS, form 137 (Rev. 8-99)



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 CHECKED -
 DATE -

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 OFFICE: District 38
 DRAWN: 366E97
 CADD: 366E97-sh
 PLOT SCALE: 100.0000 / in.
 PLOT DATE: 2/21/2011

DESIGNED -
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 DATE -

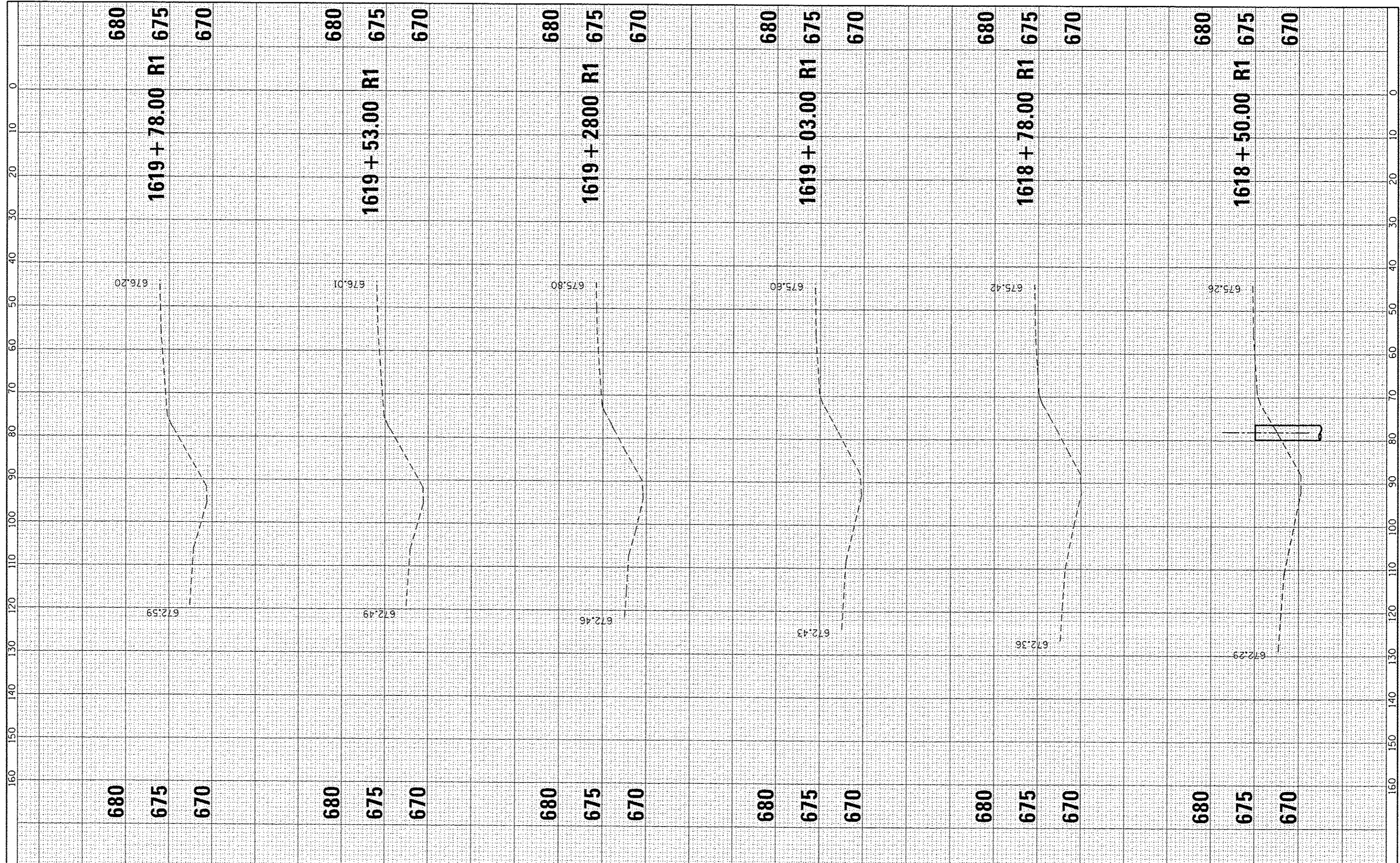
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DMS SITE LOCATION #1
 1-80 (EB) MILE MARKER 41.90
 STA. 317 + 50**

SCALE: SHEET OF SHEETS STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D3 DMS 2016	ILLINOIS	45	38
CONTRACT NO. 66E97				
ILLINOIS FED. AID PROJECT				



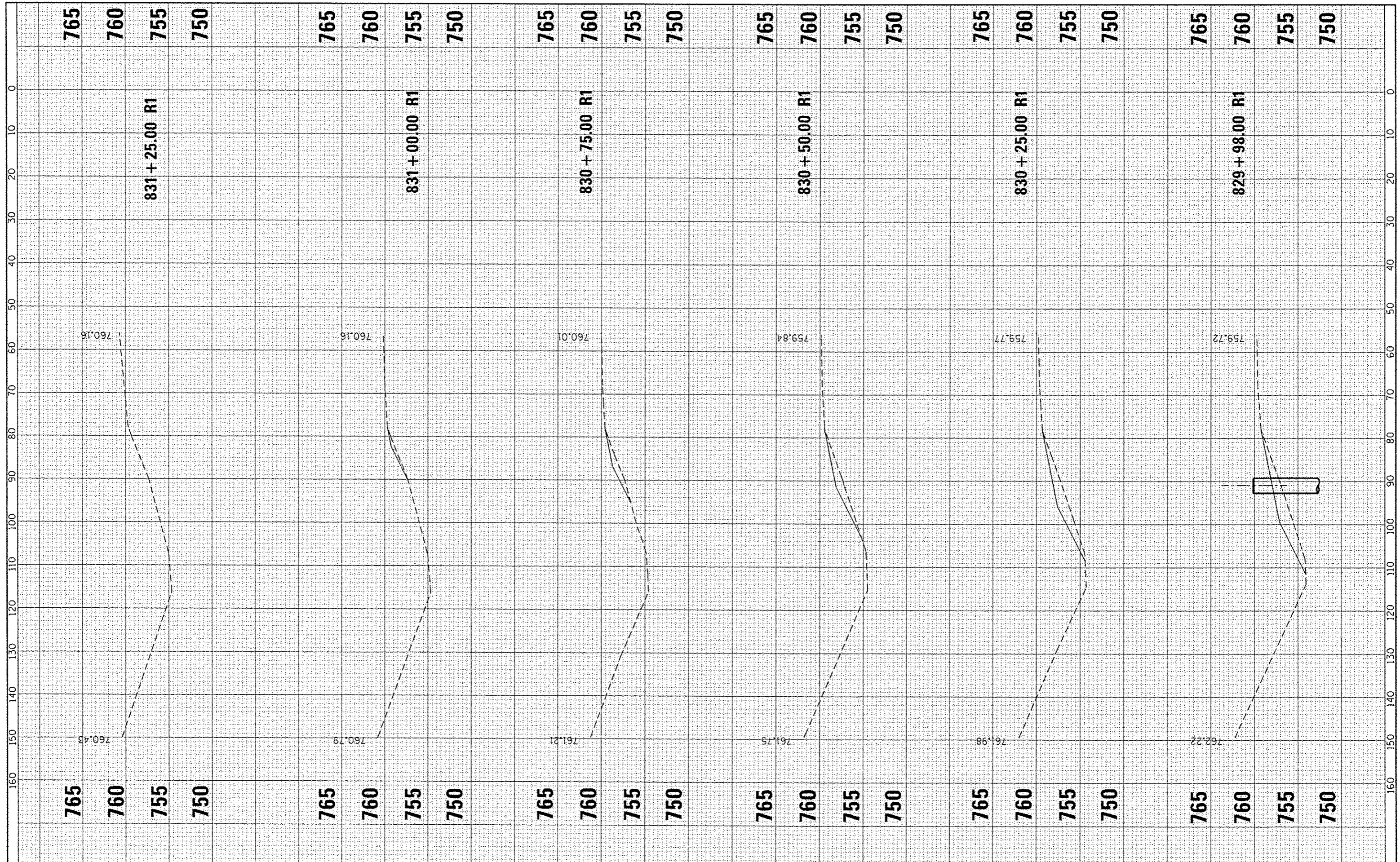
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DMS SITE LOCATION #2
1-80 (WB) MILE MARKER 65.80
STA. 1618 + 50**

SCALE: SHEET OF SHEETS STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D3 DMS 2016	VARIOUS	45	39
CONTRACT NO. 66E97				
ILLINOIS FED. AID PROJECT				



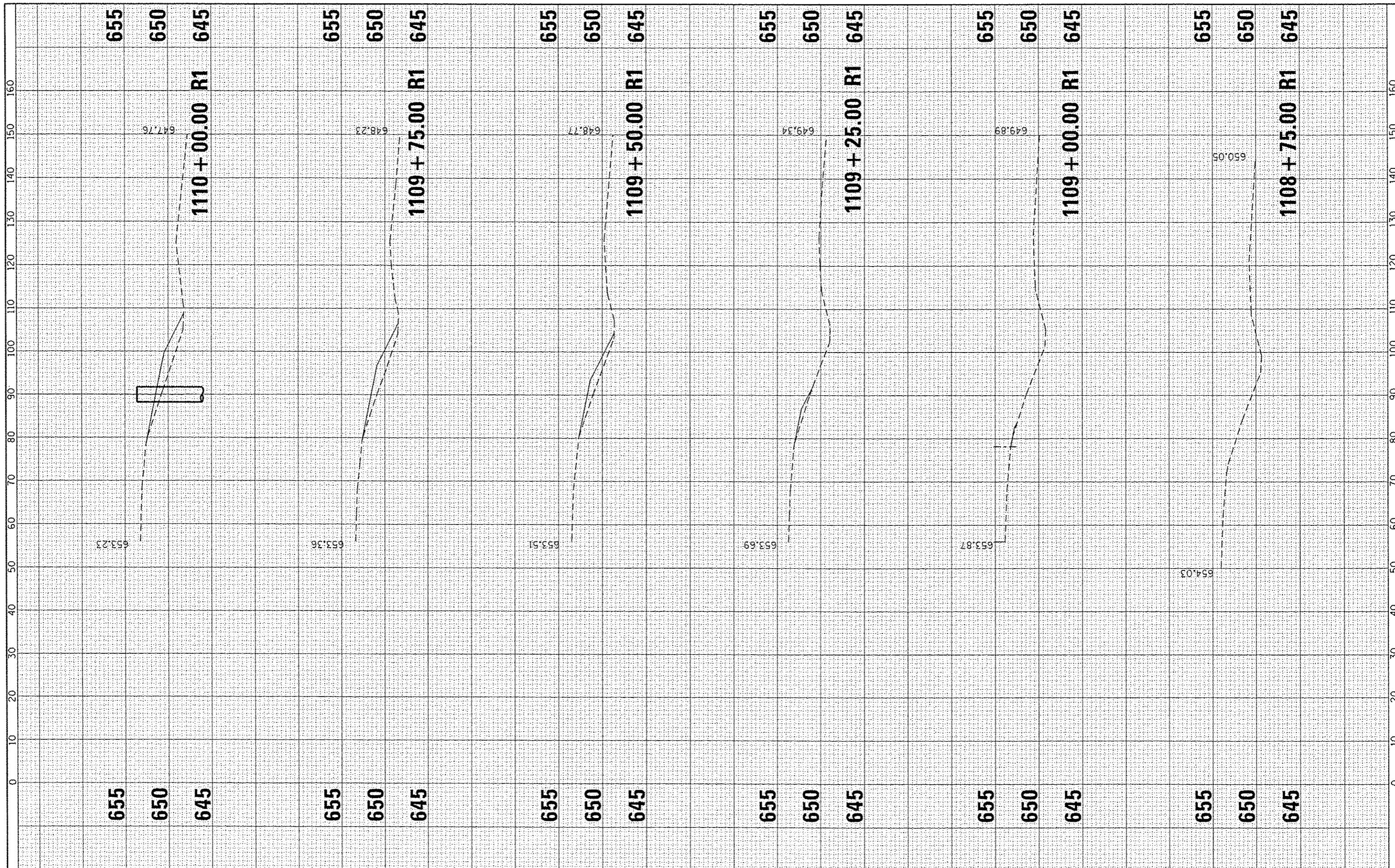
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		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DMS SITE LOCATION #3
1-39 (SB) MILE MARKER 73.90
STA. 829 + 98**

SCALE: SHEET OF SHEETS STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D3 DMS 2016	VARIOUS	45	40
CONTRACT NO. 66E97				
ILLINOIS FED. AID PROJECT				



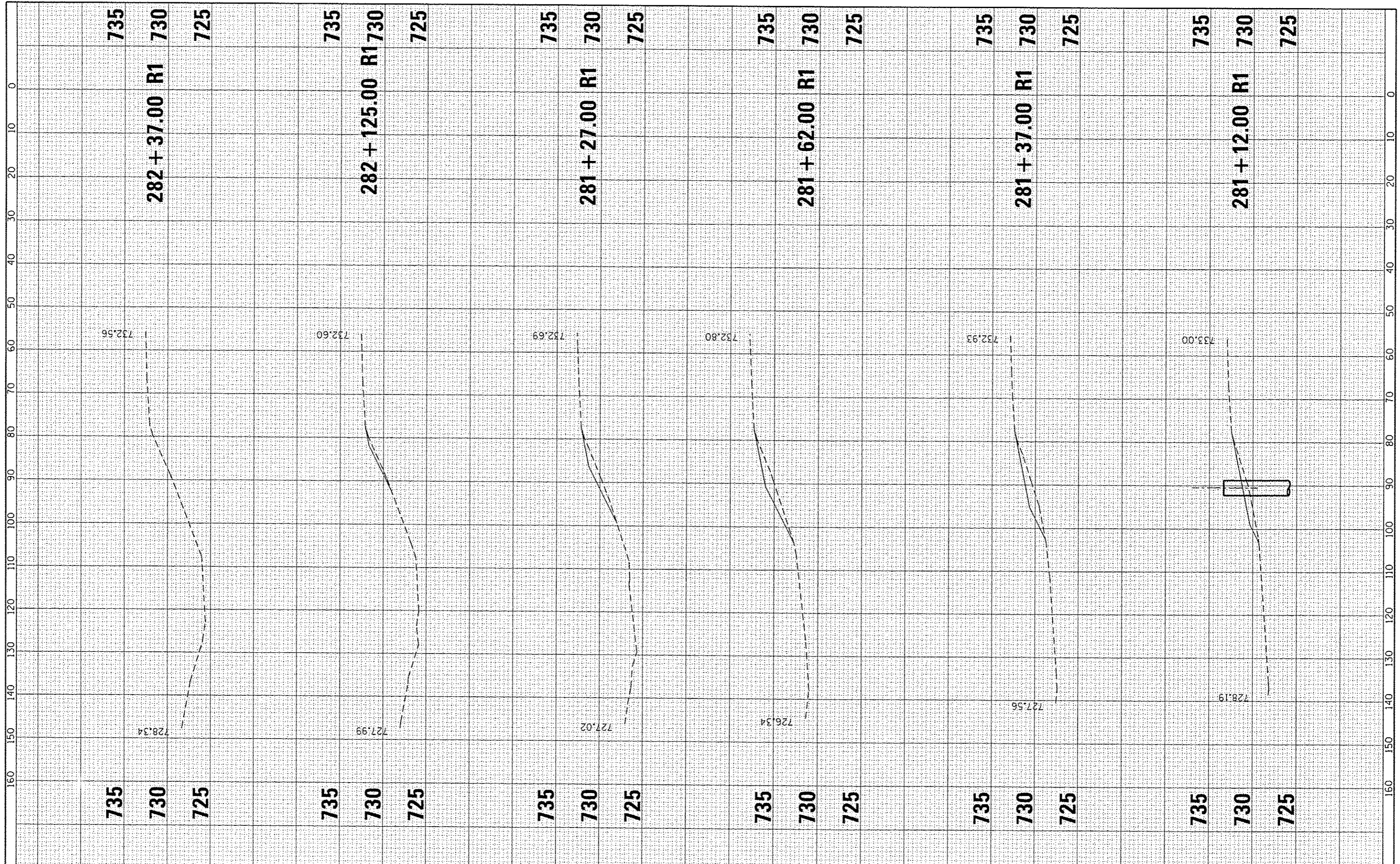
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DMS SITE LOCATION #4
1-39 (NB) MILE MARKER 60.30
STA. 1110 +00**

SCALE: SHEET OF SHEETS STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D3 DMS 2016	VARIOUS	45	41
CONTRACT NO. 66E97				
ILLINOIS FED. AID PROJECT				



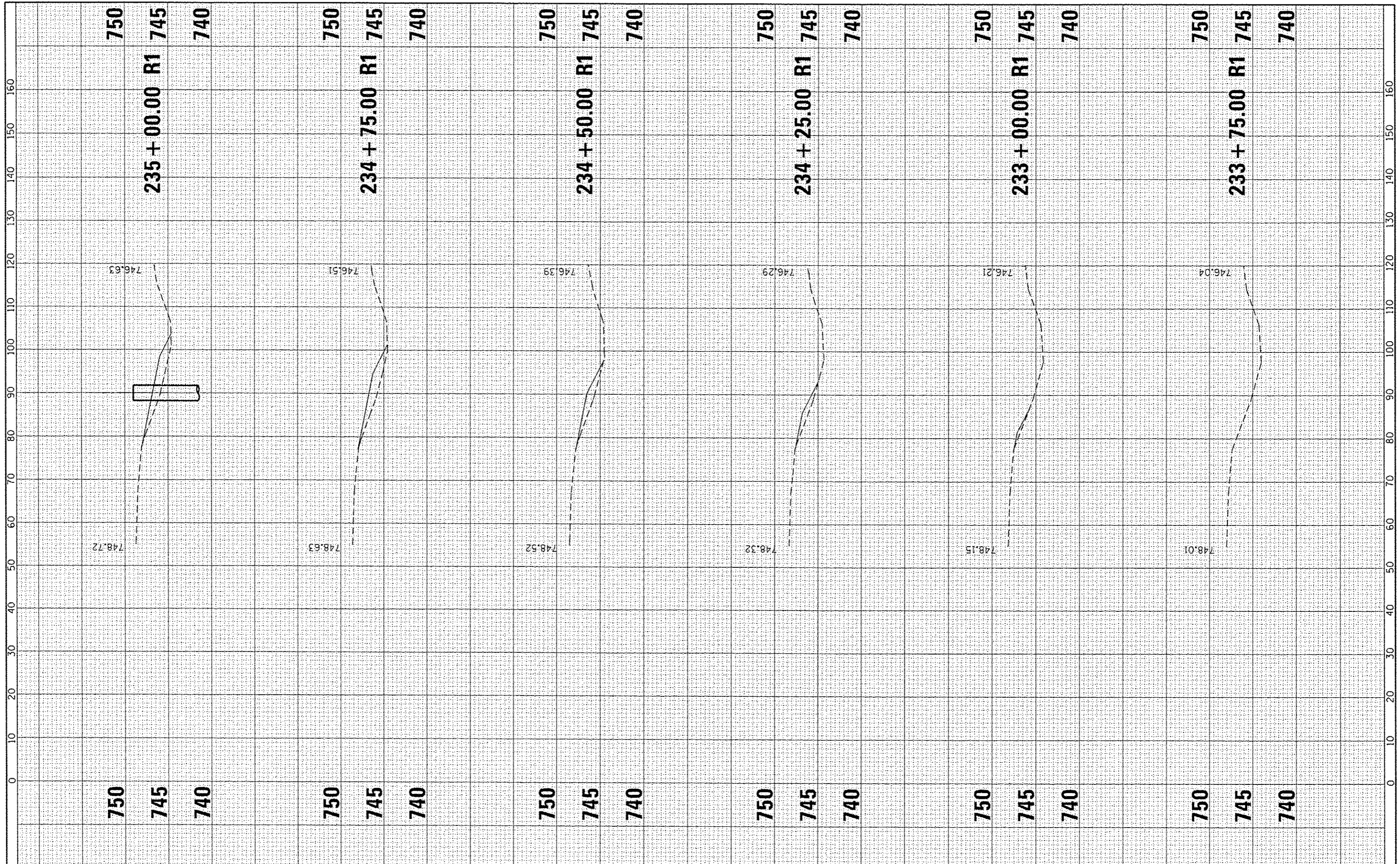
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

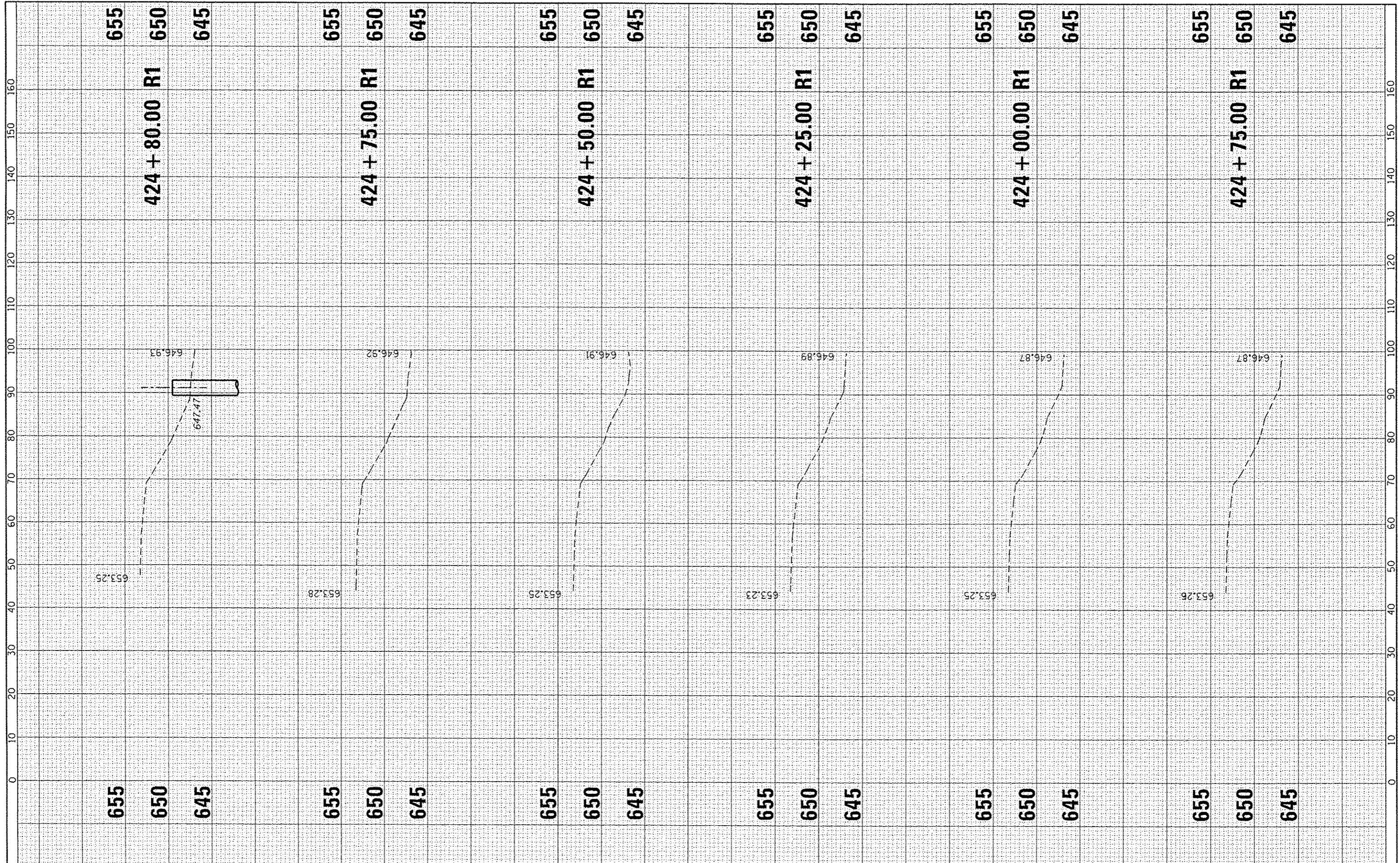
**DMS SITE LOCATION #5
1-55 (SB) MILE MARKER 208.00
STA. 281 + 12**

SCALE: SHEET OF SHEETS STA. 316+53.00 TO STA. 317+50.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D3 DMS 2016	VARIOUS	45	42
			CONTRACT NO. 66E97	
ILLINOIS FED. AID PROJECT				



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	PLOT DATE: 2/21/2011	DATE -	REVISED -									
ILLINOIS FED. AID PROJECT												



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 PLOT SCALE 100.0000 / in.
 PLOT DATE: 2/21/2017

REVISOR: D366E97-sh
 REVISIONS: dgn
 CHECKED -
 DATE -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DMS SITE LOCATION #7
 1-57 (SB) MILE MARKER 287.20
 STA. 424 + 80**
 SCALE: SHEET OF SHEETS STA. 316+53.00 TO STA. 317+50.00

F.A.I. RTE. VAR.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D3 DMS 2016	VARIOUS	45	44
			CONTRACT NO. 66E97	
ILLINOIS FED. AID PROJECT				

