

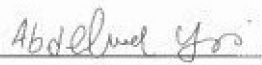



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-8SG-1, 60-7SG-1	ST. CLAIR / MADISON	53	1
		ILLINOIS	CONTRACT NO. 76P67	

PROPOSED HIGHWAY PLANS

FAI ROUTE 255 (I-255)
SECTION 82-8SG-1, 60-7SG-1
PROJECT HSIP-GQUV (750)
ST. CLAIR & MADISON COUNTIES
SIGN STRUCTURES, DMS AND FIBER OPTIC
NORTH OF COLUMBIA TO NORTH OF I-55/70

FOR INDEX OF SHEETS, SEE SHEET NO. 2

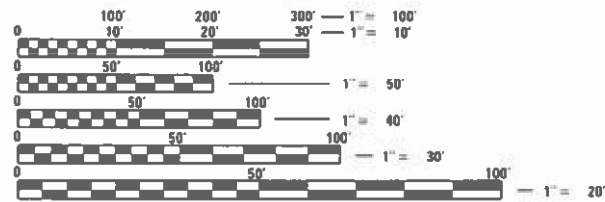
 Abdelhamid Hadji, P.E. Lic. No. 062.071763 Expires: 11/30/2023 ABNA ENGINEERING (SHTS 1-39)	SEAL  4/19/2023 Date
 Stephen E. Alsbury, S.E. Lic. No. 081.5261 Expires: 11/30/2024 ABNA ENGINEERING (SHTS 40-53)	SEAL  4/19/2023 Date

TOWNSHIPS

- SUGAR LOAF
- CENTREVILLE
- E. ST. LOUIS
- CANTEEN
- CASEYVILLE
- COLLINSVILLE

FAI 255 SB DMS
MILE POST 27.1
LAT. 38°42'25.16"N
LONG. 90°1'42.77"W

FAI 255 NB DMS
MILE POST 7.6
LAT. 38°29'20.85"N
LONG. 90°13'5.67"W

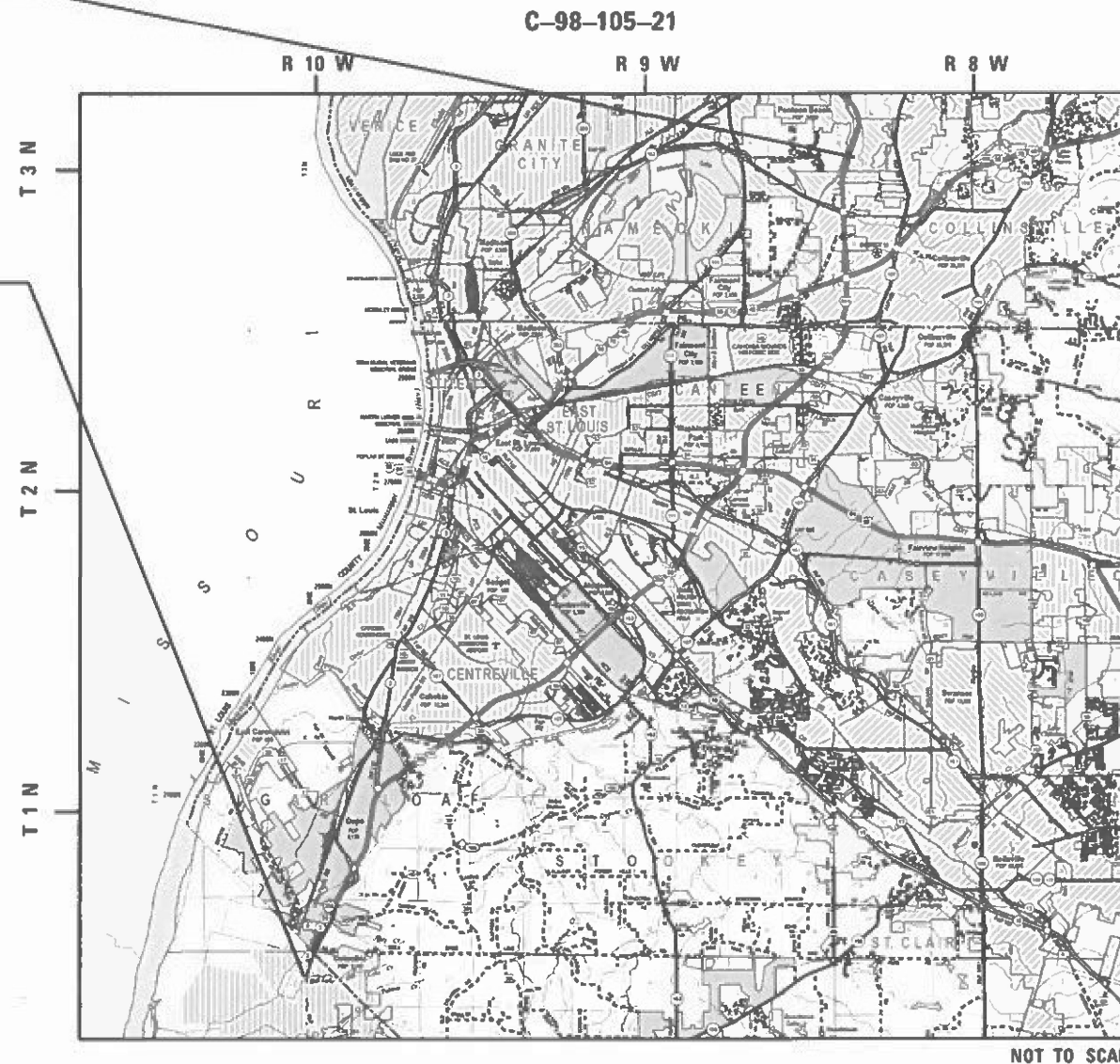


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

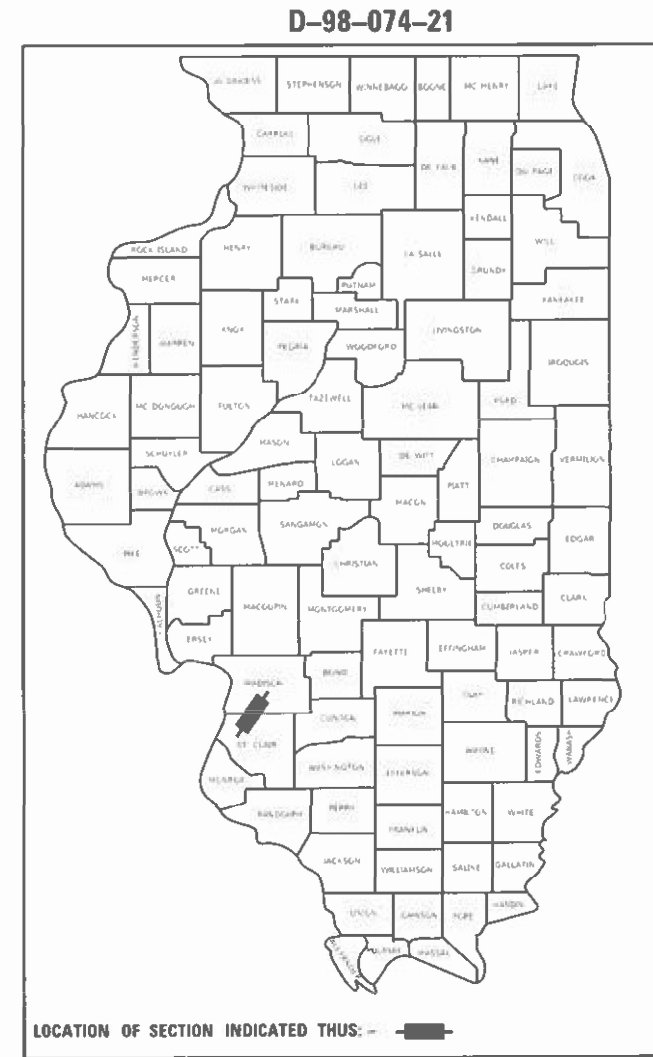
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS
1-800-892-0123
OR 811

PROJECT ENGINEER: BILLIE OWEN
PROJECT MANAGER: MIKE BERG

CONTRACT NO. 76P67



NOT TO SCALE




















STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED May 5 2023
Kim H. Brown
REGIONAL ENGINEER

June 30, 2023 John A. Elk
ENGINEER OF DESIGN AND ENVIRONMENT

June 30, 2023 Stephen M. Lewis
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

EP	EDGE OF PAVEMENT
FO	FIBER OPTIC CABLE IN CONDUIT
IPP	INLET AND PIPE PROTECTION
PVC	POLYVINYL CHLORIDE CONDUIT
MTR	METRO
	EXISTING LIGHT POLE
	EXISTING UNDERGROUND ELECTRIC CABLE
	EXISTING RADAR VEHICLE DETECTOR
	EXISTING CCTV
	EXISTING JUNCTION BOX
	EXISTING DOUBLE HANDHOLE (EXDHH##)
	EXISTING CONTROLLER
	EXISTING CONDUIT
	EXISTING SERVICE INSTALLATION
	PROPOSED HANDHOLE (HH##)
	PROPOSED DOUBLE HANDHOLE (DHH##)
	PROPOSED SERVICE INSTALLATION
	PROPOSED CONDUIT (SEE GENERAL NOTE REGARDING MULTI-DUCT CONDUIT)
	PROPOSED JUNCTION BOX, SIZE SPECIFIED (JB##)
	PROPOSED CCTV
	PROPOSED RADAR VEHICLE DETECTOR
	PROPOSED CONTROLLER

INDEX OF SHEETS

1	COVER SHEET
2	INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES & COMMITMENTS
3	SUMMARY OF QUANTITIES
4-5	SCHEDULE OF QUANTITIES
6-32	ITS PLANS
33-38	COMMUNICATION SHEETS
39	TYPICAL UNDER BRIDGE CONDUIT CONNECTION DETAIL
40-51	BUTTERFLY SIGN STRUCTURES DETAILS
52-53	SOIL BORING LOGS

HIGHWAY STANDARDS

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
701400-11	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-13	LANE CLOSURE, FREEWAY/EXPRESSWAY
701428-01	TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY/EXPRESSWAY
701901-08	TRAFFIC CONTROL DEVICES
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-03	HANDHOLES
000001-08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001006	DECIMAL OF INCH & FOOT
814006-03	DOUBLE HANDHOLES
873001-02	TRAFFIC SIGNAL GROUND AND BOND

GENERAL NOTES

- THE CONTRACTOR SHALL NOT DRILL HOLES IN THE BEAMS, DECK, OR SUBSTRUCTURE OF BRIDGE, UNLESS APPROVED BY THE ENGINEER.
- ALL GROUND RODS SUPPLIED FOR THE PROJECT SHALL BE IN ACCORDANCE WITH ARTICLE 1087.01. ALL CONNECTIONS TO GROUND RODS SHALL BE MADE VIA EXOTHERMIC WELD. COMPRESSION CLAMPS WILL NOT BE ALLOWED.
- COORDINATION WITH THE DEPARTMENT'S BUREAU OF OPERATIONS IS REQUIRED BEFORE ANY TRENCHING SHALL BE DONE TO LOCATE HIGHWAY LIGHTING/PUMP STATIONS/ITS FACILITIES AND TO COORDINATE OTHER FIELD ACTIVITIES.
- BENDING RADIUS OF FIBER CABLE SHALL NOT BE LESS THAN SIX (6) INCHES.
- ALL HANDHOLES SHALL BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE PER SECTION 814 OF STANDARD SPECIFICATIONS. THE LEGEND ON THE COVER SHALL BE "ITS". SLOPE HANDHOLE TO MATCH FINAL GRADE ELEVATION.
- ALL UTILITIES AND DRAINAGE STRUCTURES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY ATTEMPT TO CONSTRUCT ANY COMPONENT OF THE VARIOUS ITS EQUIPMENT SYSTEMS. THE COST FOR LOCATING DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR UNDERGROUND CONDUIT OF THE TYPE AND SIZE SPECIFIED.
- AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

AMEREN ILLINOIS - (SOUTH) (GAS & ELECTRIC)
CHARTER/SPECTRUM (COMMUNICATIONS)
CITY OF COLUMBIA (WATER AND SANITARY)
CLEARWAVE COMMUNICATIONS (COMMUNICATIONS)
VILLAGE OF DUPO (WATER AND SANITARY)
HARRISONVILLE TELEPHONE (COMMUNICATIONS)
MCI/VERIZON (COMMUNICATIONS)
PRAIRIE DUPONT PUBLIC WATER
SUGAR LOAF TOWNSHIP
CITY OF CAHOKIA HEIGHTS (WATER AND SANITARY)
ATT/DISTRIBUTION (COMMUNICATIONS)
WINDSTREAM KDL/MCLEOD (COMMUNICATIONS)
METRO EAST SANITARY DISTRICT
ATT / T (TRANSMISSION)
EVERSTREAM GLC HOLDING CO LLC (COMMUNICATIONS)
ZAYO FIBER SOLUTIONS (COMMUNICATIONS)
CITY OF COLLINSVILLE (WATER AND SANITARY)
STATE OF ILLINOIS - CMS
SOUTHWESTERN ELECTRIC COOP

GENERAL NOTES (CONTINUED)

- ALL FIBER BACKBONE CONDUIT SHALL BE PLACED A MINIMUM OF 5' FROM EDGE OF PAVEMENT. FINAL LOCATION SHALL BE APPROVED BY THE ENGINEER.
- FIBER OPTIC CABLE PULL TENSION SHALL BE LIMITED BY PROVIDING JUNCTION BOXES OR HANDHOLES AT INTERVALS NO GREATER THAN 750 FEET.
- A 3/4" DIAMETER NYLON ROPE SHALL BE INSTALLED IN ALL CONDUIT RUNS. THE COST OF PULL ROPE SHALL BE INCLUDED IN THE PROPOSED ELECTRIC CABLE INSTALLATION AND OR FIBER OPTIC CABLE IN THAT CONDUIT.
- THE COST TO REMOVE AND REPLACE ANY EXISTING RIP RAP ENCOUNTERED DURING TRENCHING OPERATIONS SHALL BE PAID PER ARTICLE 109.04.
- INLET AND PIPE PROTECTION (IPP) SHALL BE PLACED IN "ACTIVE WORKZONES ONLY, AN "ACTIVE" WORKZONE IS DEFINED AS AN AREA WHERE THE CONTRACTOR IS CURRENTLY INSTALLING MULTI-DUCT CONDUIT, INLET AND PIPE PROTECTION PLACEMENT IN AN "INACTIVE" WORKZONE SHALL BE WITH THE ENGINEER'S PERMISSION.
- THE ENGINEER MAY PERMIT ACCESS CONTROL FENCING REMOVAL AND IMMEDIATE REPLACEMENT, TO FACILITATE CONDUIT INSTALLATION. THE PRICE OF ACCESS CONTROL FENCING REMOVAL AND REPLACEMENT SHALL BE PAID PER ARTICLE 109.04.

COMMITMENTS

ALL LANES OF IL ROUTE 159 SHALL BE OPEN TO TRAFFIC DURING THE 2024 SOLAR ECLIPSE FROM 7:00 A.M. ON SATURDAY APRIL 6, 2024 THROUGH 10:00 P.M. ON MONDAY APRIL 8, 2024.

REV. SK

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745 McClintock Drive
Suite 210
Burr Ridge, IL 60527
Ph: 773-961-4788
Fax: 773-239-3728

USER NAME = ighimire	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 5/9/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ITS PLAN - INDEX SHEET, HIGHWAY STANDARDS,
GENERAL NOTES & COMMITMENTS
NORTH OF COLUMBIA TO NORTH OF I-55/70**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-85G-1, 60-75G-1	ST. CLAIR / MADISON	53	2
CONTRACT NO. 76P67				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ST. CLAIR COUNTY	MADISON COUNTY
				90% FED/10%STATE	90% FED/10%STATE
				FAI 255	FAI 255
				ROADWAY	ROADWAY
				0021	0021
				URBAN	URBAN
51200957	FURNISHING METAL SHELL PILES 12" X 0.250"	FOOT	352	0	352
51201600	FURNISHING STEEL PILES HP12X53	FOOT	153	153	0
51202305	DRIVING PILES	FOOT	505	153	352
51203200	TEST PILE METAL SHELLS	EACH	1	0	1
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	3	3
67100100	MOBILIZATION	L SUM	1	0.5	0.5
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1	0.5	0.5
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	90	45	45
73301805	OVERHEAD SIGN STRUCTURE - BUTTERFLY, TYPE III-F-A	FOOT	76	38	38
73301900	OVERHEAD SIGN STRUCTURE WALKWAY - BUTTERFLY, TYPE A	FOOT	15	7.5	7.5
73400100	CONCRETE FOUNDATIONS	CU YD	50.9	36.3	14.6
80300100	LOCATING UNDERGROUND CABLE	FOOT	39216	37976	1240
80500100	SERVICE INSTALLATION, TYPE A	EACH	2	1	1
81028370	UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	919	314	605
81101005	CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC COATED GALVANIZED STEEL	FOOT	2457	2457	0

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ST. CLAIR COUNTY	MADISON COUNTY
				90% FED/10%STATE	90% FED/10%STATE
				FAI 255	FAI 255
				ROADWAY	ROADWAY
				0021	0021
				URBAN	URBAN
81300835	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 10"	EACH	5	5	0
81400100	HANDHOLE	EACH	66	66	0
81400300	DOUBLE HANDHOLE	EACH	3	1	2
81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	2865	1005	1860
86300300	CONTROLLER CABINET TYPE III	EACH	2	1	1
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	44365	43080	1285
87800200	CONCRETE FOUNDATION, TYPE D	FOOT	6	3	3
87900200	DRILL EXISTING HANDHOLE	EACH	2	1	1
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	2	1	1
X8710318	FIBER OPTIC UTILITY MARKER	EACH	153	140	13
X7010242	TRUSS MOUNTED LED DYNAMIC MESSAGE SIGN	EACH	2	1	1
X0326812	CAT 5 ETHERNET CABLE	FOOT	70	35	35
X8102839	UNDERGROUND CONDUIT, PVC, 4" DIA., MULTI-DUCT	FOOT	39221	37996	1225
X8710050	FIBER OPTIC ETHERNET DROP AND REPEAT SWITCH	EACH	2	1	1
X8710075	FIBER OPTIC CABLE IN CONDUIT, 72 COND. S.M.F.O.	FOOT	60201	52376	7825

REV. - MS

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ABNA
DESIGN FIRM REG. 194.002117

745 McClintock Drive
Suite 210
Burr Ridge, IL 60527
Ph: 773-861-4786
Fax: 773-239-3728

USER NAME = ighimire	DESIGNED -	REVISED -
PLOT SCALE = 20.0000 sf / in.	DRAWN -	REVISED -
PLOT DATE = 5/9/2023	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
NORTH OF COLUMBIA TO NORTH OF I-55/70

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-85G-1, 60-75G-1	ST. CLAIR / MADISON	53	3
			CONTRACT NO. 76P67	
ILLINOIS FED. AID PROJECT				

ITS SCHEDULE

HANDHOLE FROM	HANDHOLE TO	LENGTH (Ft)	UNDRGRD C PVC 4 MULTI-DUCT (Ft)	FO CAB C 72 SM FO (Ft)	ELCBL C TRACER 14 1C (Ft)	LOCATE UNDERGR CABLE (Ft)	COND ATT STR 4 PVC COATED GALVS (Ft)	UNDRGRD C PVC 3 (Ft)	EC C XLP USE 1C 6 (Ft)	REMARKS
ST. CLAIR COUNTY										
SERV. INSTALL. MP025507.6	CONTROLLER MP025507.6							304	1005	
DDH01	CONTROLLER MP025507.6	10		40	25	10		10		
DHH01	HH01	755	755	785	770	755				
HH01	HH02	750	750	780	765	750				
HH02	HH03	750	750	780	760	750				
HH03	HH04	755	755	785	765	755				
HH04	HH05	750	750	780	760	750				
HH05	HH06	750	750	780	760	750				
HH06	HH07	750	750	780	760	750				
HH07	HH08	750	750	780	760	750				
HH08	HH09	750	750	780	760	750				
HH09	HH10	442	442	472	452	442				
HH10	HH11	113	113	143	123	113				
HH11	HH12	750	750	780	760	750				
HH12	HH13	750	750	780	760	750				
HH13	HH14	750	750	780	760	750				
HH14	HH15	750	750	780	760	750				
HH15	HH16	750	750	780	760	750				
HH16	HH17	750	750	780	760	750				
HH17	HH18	750	750	780	760	750				
HH18	HH19	750	750	780	760	750				
HH19	HH20	550	550	580	560	550				
HH20	HH21	95	95	125	105	95				
HH21	HH22	765	765	795	775	765				
HH22	HH23	760	760	790	770	760				
HH23	HH24	130	130	160	140	130				
HH24	HH25	750	750	780	760	750				
HH25	HH26	750	750	780	760	750				
HH26	HH27	750	750	780	760	750				
HH27	HH28	750	750	780	760	750				
HH28	HH29	750	750	780	760	750				
HH29	HH30	750	750	780	760	750				
HH30	HH31	410	410	440	420	410				
HH31	HH32	414	414	444	424	414				
HH32	HH33	57	57	87	67	57				
HH33	HH34	759	759	789	769	759				
HH34	HH35	375	375	405	385	375				
HH35	HH36	745	745	775	755	745				
HH36	HH37	750	750	780	760	750				
HH37	HH38	750	750	780	760	750				
HH38	HH39	390	390	420	400	390				
HH39	HH40	65	65	95	75	65				
HH40	HH41	475	475	505	485	475				
HH41	HH42	518	518	548	528	518				
HH42	JB01A	15	15	30			15			BRIDGE
JB01A	JB01	600		630			600			BRIDGE
JB01	JB02	600		630			600			BRIDGE
JB02	JB03	600		630			600			BRIDGE
JB03	JB03A	630		660			627			BRIDGE
JB03A	HH43	15	15	30			15			BRIDGE
HH43	HH44	475	475	505	485	475				
HH44	HH45	225	225	255	235	225				
HH45	HH46	405	405	435	415	405				
HH46	HH47	55	55	85	65	55				
HH47	HH48	432	432	462	442	432				
HH48	HH49	152	152	182	162	152				
HH49	HH50	747	747	777	757	747				
HH50	HH51	637	637	667	647	637				
HH51	HH52	195	195	225	205	195				
HH52	HH53	748	748	778	758	748				
SUB TOTAL			29924	34104	30449	29904	2457	314	1005	

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USER NAME = hhadjri	DESIGNED -	REVISIONS -
PLOT SCALE = 20,0000 sf / in.	DRAWN -	REVISIONS -
PLOT DATE = 4/19/2023	CHECKED -	REVISIONS -
	DATE -	REVISIONS -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES			
NORTH OF COLUMBIA TO NORTH OF I-55/70			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-85G-1, 60-75G-1	ST. CLAIR / MADISON	53	4
CONTRACT NO. 76P67				
ILLINOIS FED. AID PROJECT				

ITS SCHEDULE

HANDHOLE FROM	HANDHOLE TO	LENGTH (Ft)	UNDRGRD C PVC 4 MULTI-DUCT (Ft)	FO CAB C 72 SM FO (Ft)	ELCBL C TRACER 14 1C (Ft)	LOCATE UNDERGR CABLE (Ft)	COND ATT STR 4 PVC COATED GALVS (Ft)	UNDRGRD C PVC 3 (Ft)	EC C XLP USE 1C 6 (Ft)	REMARKS
HH53	HH54	748	748	778	758	748				
HH54	HH55	538	538	568	548	538				
HH55	HH56	190	190	220	200	190				
HH56	HH57	750	750	780	760	750				
HH57	HH58	755	755	785	765	755				
HH58	HH59	738	738	768	748	738				
HH59	HH60	744	744	774	754	744				
HH60	HH61	750	750	780	760	750				
HH61	HH62	750	750	780	760	750				
HH62	HH63	670	670	700	680	670				
HH63	HH64	94	94	124	104	94				
HH64	HH65	710	710	740	720	710				
HH65	HH66	165	165	195	175	165				
HH66	EX-DHH06	470	470	500	485	470				
EX-DHH06	EX-DHH05			140	120					
EX-DHH05	EX-HH19			620	590					
EX-HH19	EX-HH18			170						
EX-HH18	EX-HH17			620	590					
EX-HH17	EX-HH16			150						
EX-HH16	EX-JB01			600						
EX-JB01	EX-HH15			600						
EX-HH15	EX-DHH03			180	155					
EX-DHH03	EX-HH14			730	709					
EX-HH14	EX-HH13			780	750					
EX-HH13	EX-HH12			780	750					
EX-HH12	EX-HH11			780	750					
EX-HH11	EX-HH10			150						
EX-HH10	EX-DHH02			620						
EX-DHH02	EX-HH09			135						
EX-HH09	EX-HH08			195						
EX-HH08	EX-DHH01			135						
EX-DHH01	EX-HH07			350						
EX-HH07	EX-HH06			530						
EX-HH06	EX-HH05			85						
EX-HH05	EX-HH04			660						
EX-HH04	EX-HH03			50						
EX-HH03	EX-HH02			150						
EX-HH02	EX-HH01			50						
EX-HH01	EXDHH02			520						
TOTAL			37996	52376	43080	37976	2457	314	1005	
MADISON COUNTY										
EX-DHH07	EX-HH23			270						
EX-HH23	EX-HH24			480						
EX-HH24	EX-HH25			555						
EX-HH25	EX-HH26			700						
EX-HH26	EX-HH27			105						
EX-HH27	EX-HH28			720						
EX-HH28	EX-HH29			80						
EX-HH29	EX-HH30			830						
EX-HH30	EX-HH31			710						
EX-HH31	EX-HH32			685						
EX-HH32	EX-DHH08			210						
EX-DHH08	EX-HH33			595						
EX-HH33	EX-HH34			555						
EX-HH34	DHH05	635	635	665	650	635				
DHH05	DHH06	590	590	620	605	590				
SERV. INSTALL. MPO25527.1	CONTROLLER MPO25527.1							590	1860	
DHH06	CONTROLLER MPO25527.1	15		45	30	15		15		
TOTAL			1225	7825	1285	1240	0	605	1860	
PROJECT TOTAL			39221	60201	44365	39216	2457	919	2865	

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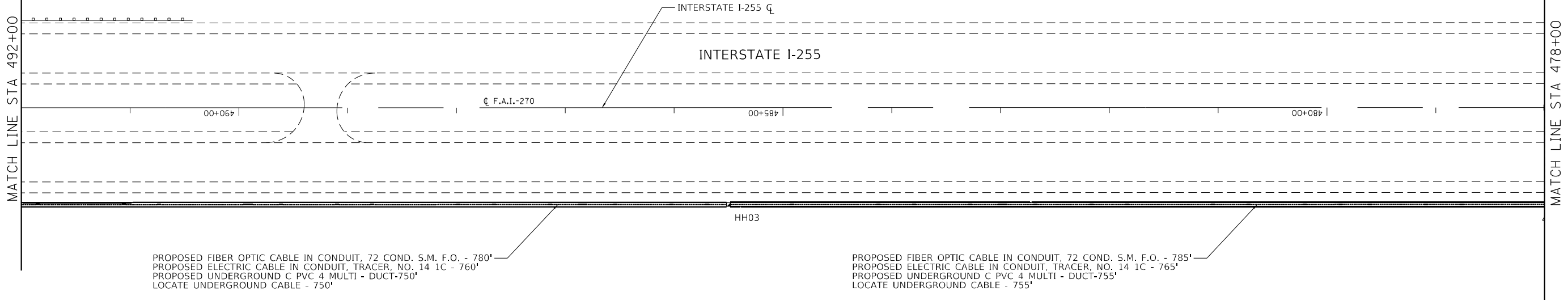
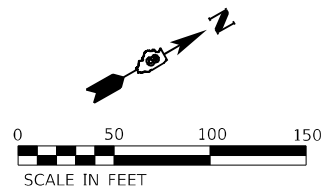


USER NAME = hhadj/r	DESIGNED -	REVISD -
PLOT SCALE = 20,0000 sf / in.	DRAWN -	REVISD -
PLOT DATE = 4/19/2023	CHECKED -	REVISD -
	DATE -	REVISD -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

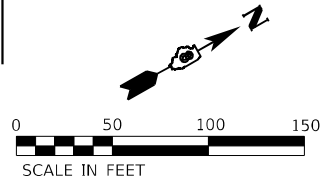
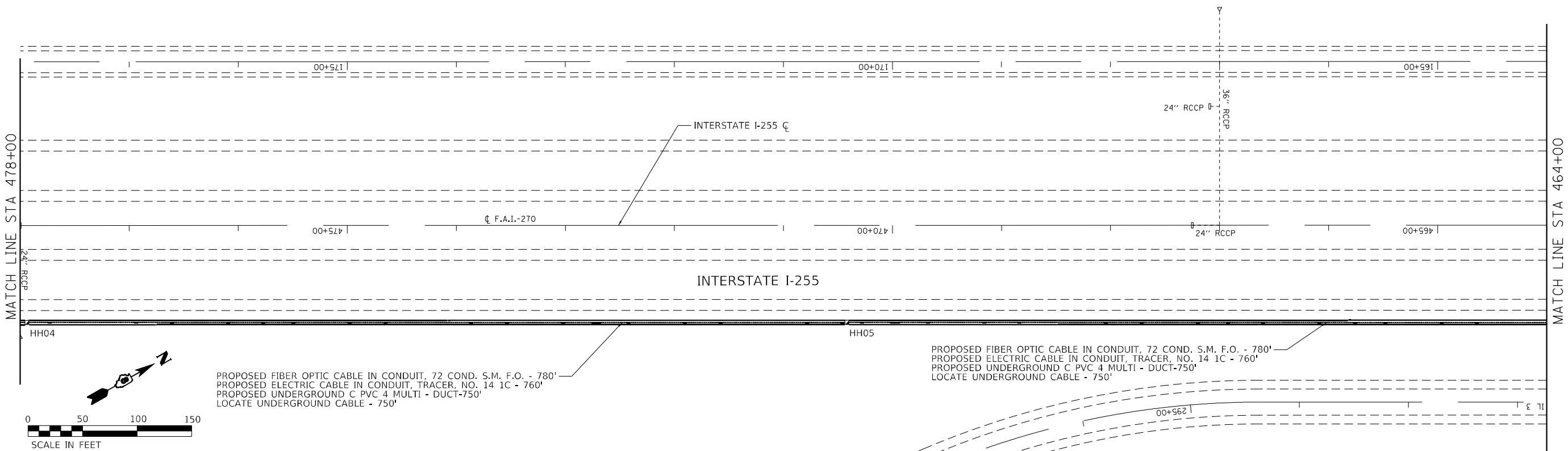
SCHEDULE OF QUANTITIES			
NORTH OF COLUMBIA TO NORTH OF I-55/70			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-85G-1, 60-75G-1	ST. CLAIR / MADISON	53	5
CONTRACT NO. 76P67				
ILLINOIS FED. AID PROJECT				



PROPOSED FIBER OPTIC CABLE IN CONDUIT, 72 COND. S.M. F.O. - 780'
 PROPOSED ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C - 760'
 PROPOSED UNDERGROUND C PVC 4 MULTI - DUCT-750'
 LOCATE UNDERGROUND CABLE - 750'

PROPOSED FIBER OPTIC CABLE IN CONDUIT, 72 COND. S.M. F.O. - 785'
 PROPOSED ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C - 765'
 PROPOSED UNDERGROUND C PVC 4 MULTI - DUCT-755'
 LOCATE UNDERGROUND CABLE - 755'



PROPOSED FIBER OPTIC CABLE IN CONDUIT, 72 COND. S.M. F.O. - 780'
 PROPOSED ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C - 760'
 PROPOSED UNDERGROUND C PVC 4 MULTI - DUCT-750'
 LOCATE UNDERGROUND CABLE - 750'

PROPOSED FIBER OPTIC CABLE IN CONDUIT, 72 COND. S.M. F.O. - 780'
 PROPOSED ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C - 760'
 PROPOSED UNDERGROUND C PVC 4 MULTI - DUCT-750'
 LOCATE UNDERGROUND CABLE - 750'

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ABNA
 DESIGN FIRM REG. 164002117
 745 McClintock Drive
 Suite 210
 Burr Ridge, IL 60527
 Ph: 773-881-4788
 Fax: 773-239-3728

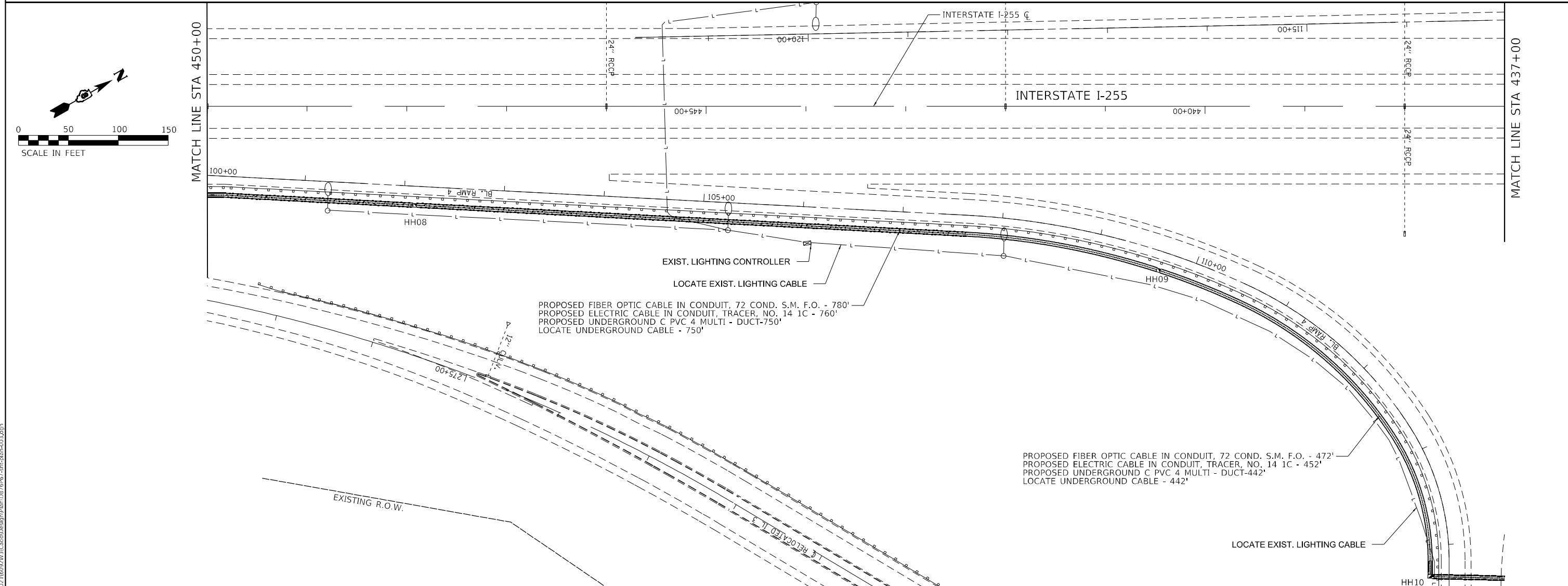
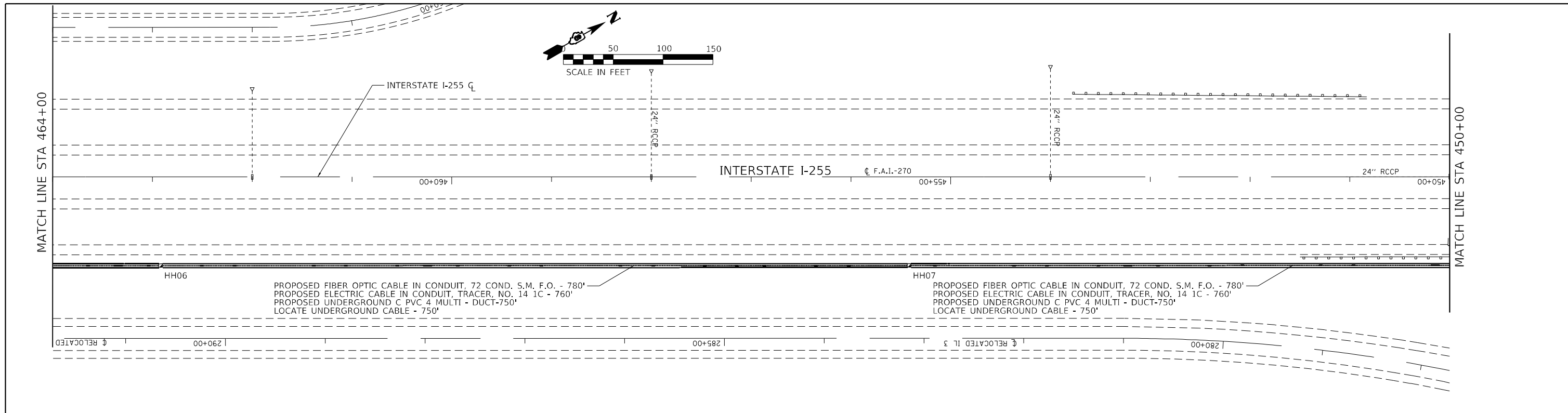
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ITS PLAN
 NORTH OF COLUMBIA TO ILLINOIS 15**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-85G-1, 60-75G-1	ST. CLAIR	53	7
CONTRACT NO. 76P67				
ILLINOIS FED. AID PROJECT				



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ABNA
 DESIGN FIRM REG. 14C002117
 745 McClellan Drive
 Suite 210
 Burr Ridge, IL 60527
 Ph: 773-881-4788
 Fax: 773-239-3728

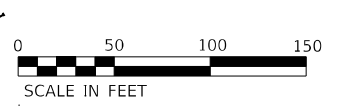
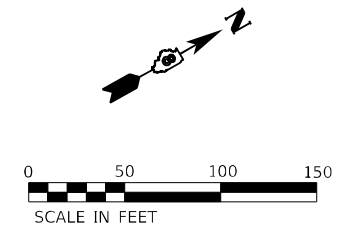
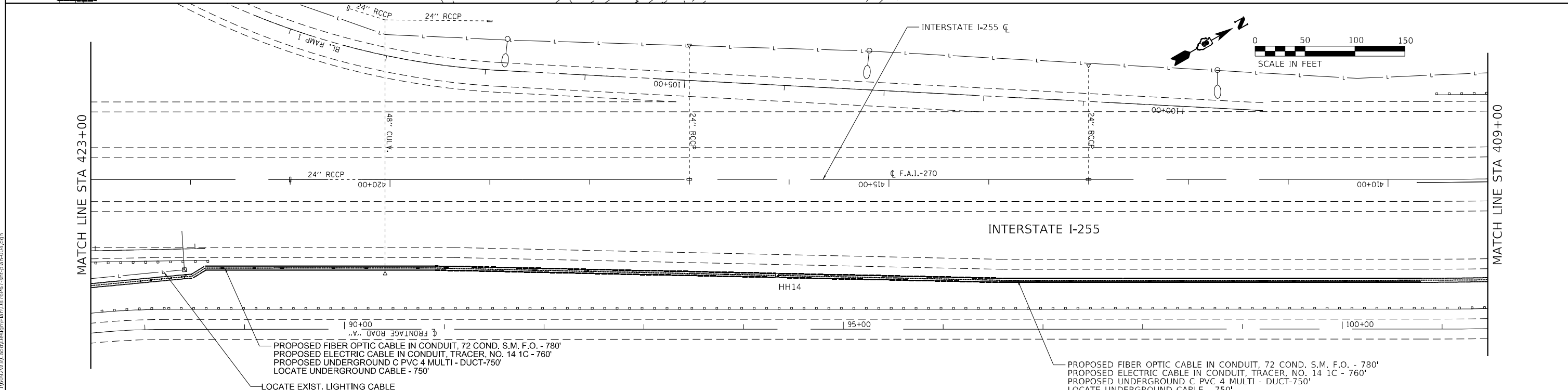
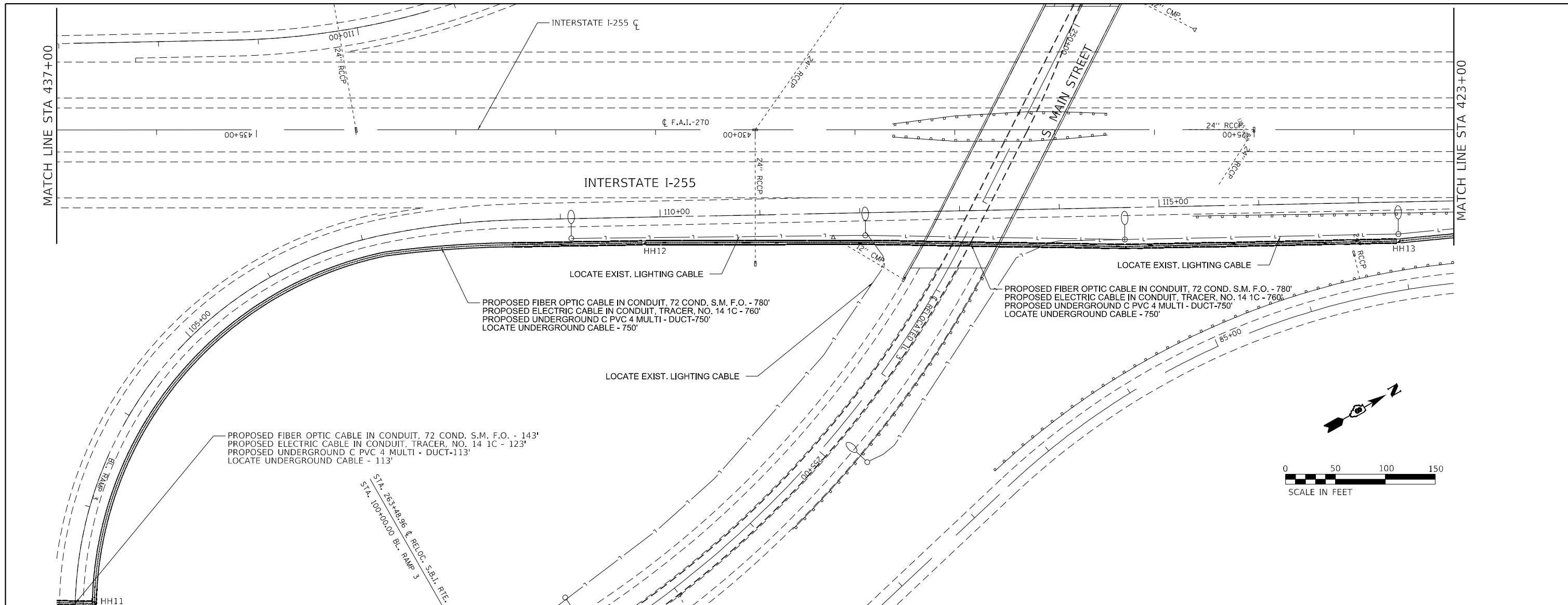
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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS PLAN
NORTH OF COLUMBIA TO ILLINOIS 15

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-85G-1, 60-75G-1	ST. CLAIR	53	8
CONTRACT NO. 76P67				
ILLINOIS FED. AID PROJECT				



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ABNA
 745 McClellan Drive
 Burr Ridge, IL 60527
 Ph: 773-881-4788
 Fax: 773-239-3728

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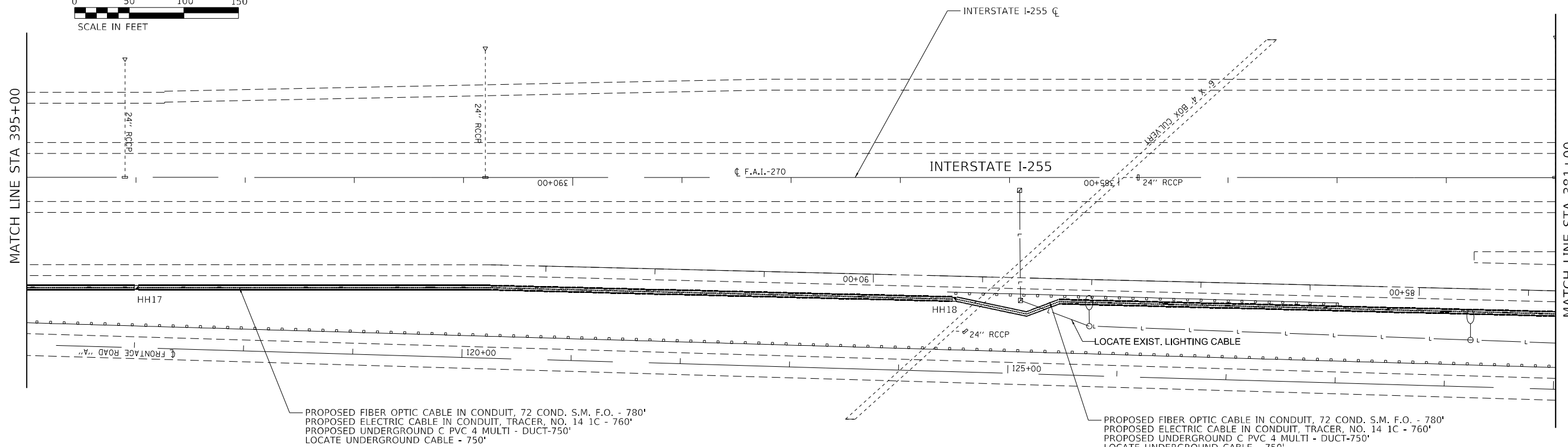
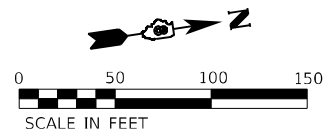
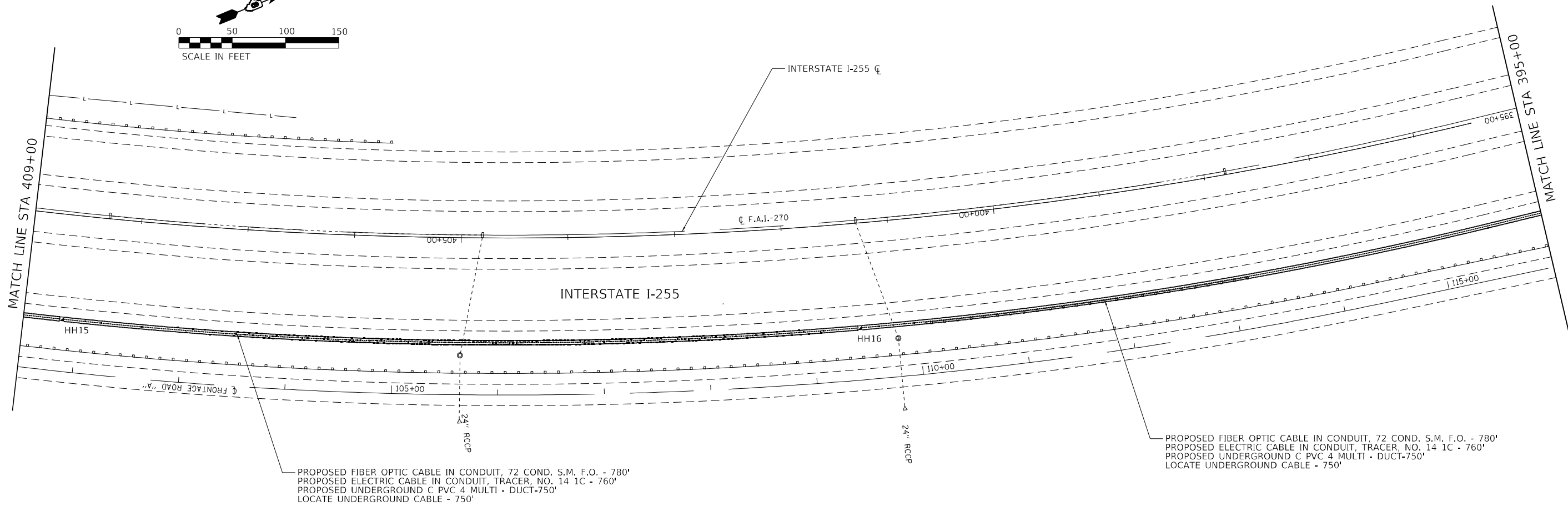
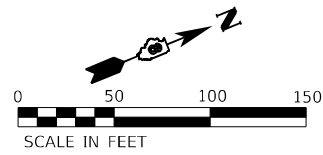
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CHECKED -	REVISED -
DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS PLAN
NORTH OF COLUMBIA TO ILLINOIS 15

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-85G-1, 60-75G-1	ST. CLAIR	53	9
CONTRACT NO. 76P67				
ILLINOIS FED. AID PROJECT				



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ABNA
 DESIGN FIRM REG. 14-000217

745 McClintock Drive
 Suite 210
 Burr Ridge, IL 60527
 Ph: 773-881-4788
 Fax: 773-239-3728

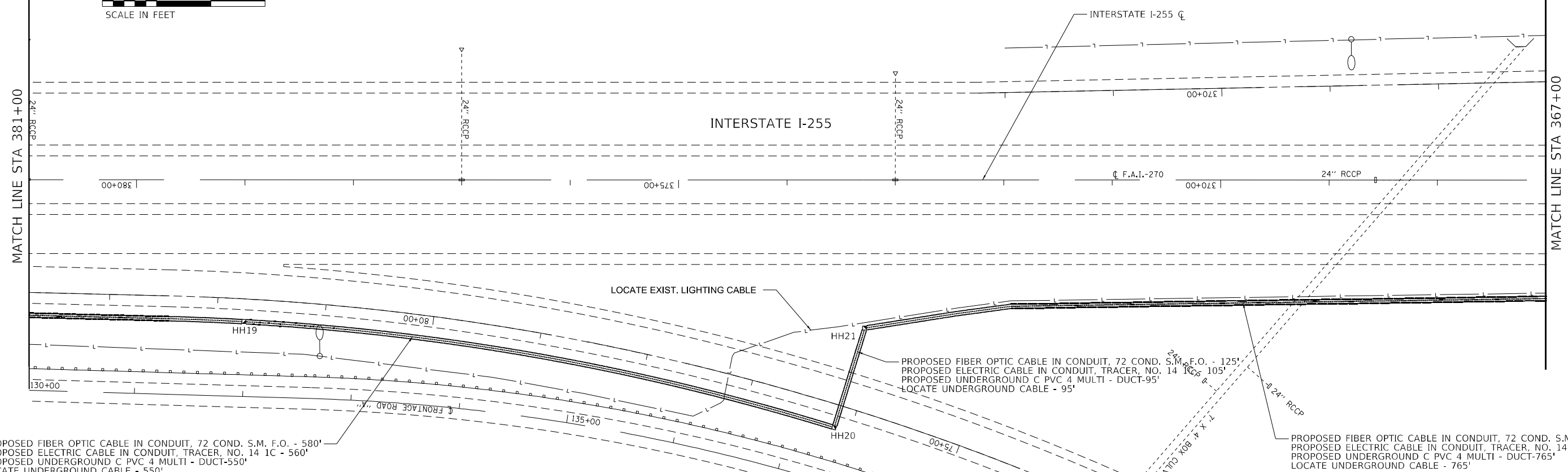
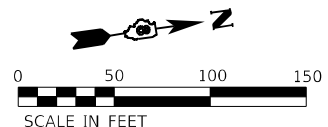
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DESIGNED -	REVISED -
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CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ITS PLAN				
NORTH OF COLUMBIA TO ILLINOIS 15				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

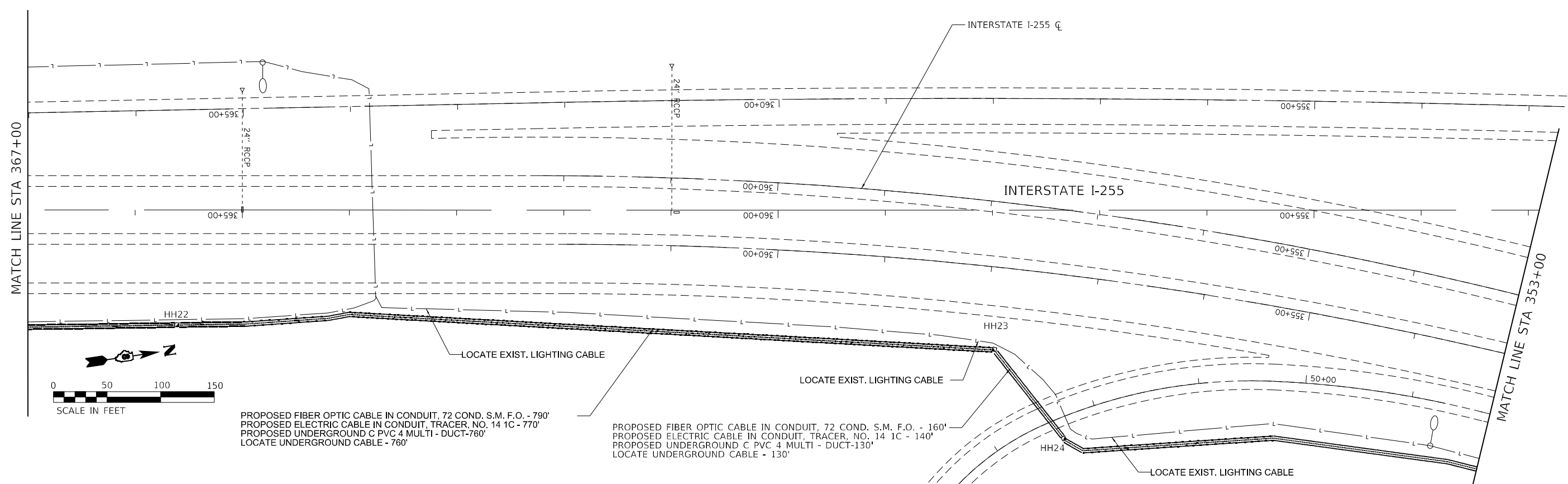
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-85G-1, 60-75G-1	ST. CLAIR	53	10
CONTRACT NO. 76P67				
ILLINOIS FED. AID PROJECT				



PROPOSED FIBER OPTIC CABLE IN CONDUIT, 72 COND. S.M. F.O. - 580'
 PROPOSED ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C - 560'
 PROPOSED UNDERGROUND C PVC 4 MULTI - DUCT-550'
 LOCATE UNDERGROUND CABLE - 550'

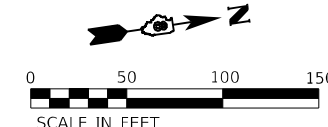
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 PROPOSED ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C - 105'
 PROPOSED UNDERGROUND C PVC 4 MULTI - DUCT-95'
 LOCATE UNDERGROUND CABLE - 95'

PROPOSED FIBER OPTIC CABLE IN CONDUIT, 72 COND. S.M. F.O. - 795'
 PROPOSED ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C - 775'
 PROPOSED UNDERGROUND C PVC 4 MULTI - DUCT-765'
 LOCATE UNDERGROUND CABLE - 765'



PROPOSED FIBER OPTIC CABLE IN CONDUIT, 72 COND. S.M. F.O. - 790'
 PROPOSED ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C - 770'
 PROPOSED UNDERGROUND C PVC 4 MULTI - DUCT-760'
 LOCATE UNDERGROUND CABLE - 760'

PROPOSED FIBER OPTIC CABLE IN CONDUIT, 72 COND. S.M. F.O. - 160'
 PROPOSED ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C - 140'
 PROPOSED UNDERGROUND C PVC 4 MULTI - DUCT-130'
 LOCATE UNDERGROUND CABLE - 130'



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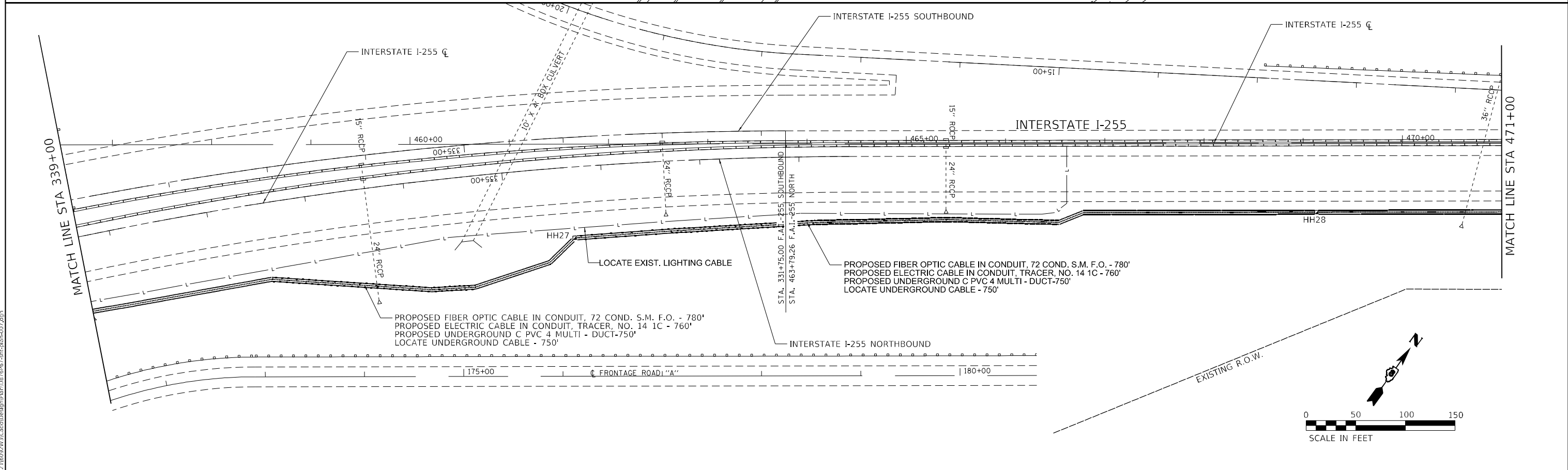
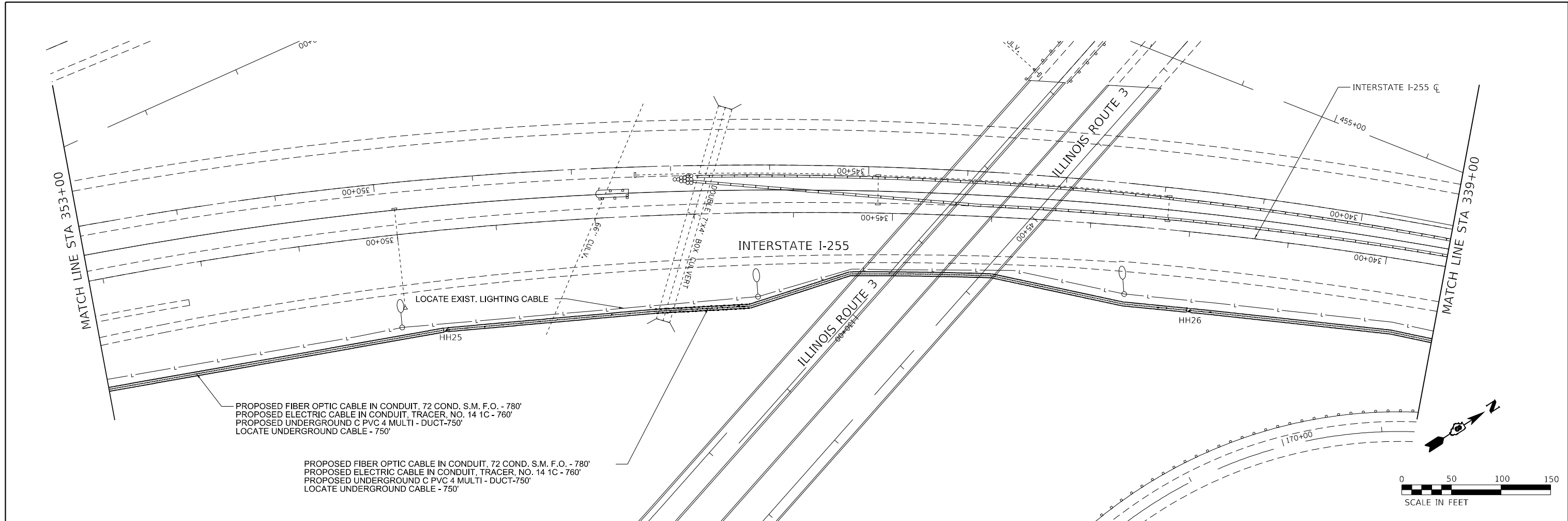
ABNA
 DESIGN FIRM REG. 14-002117
 745 McClintock Drive
 Suite 210
 Burr Ridge, IL 60527
 Ph: 773-881-4788
 Fax: 773-239-3728

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PLOT DATE = 4/19/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ITS PLAN	
NORTH OF COLUMBIA TO ILLINOIS 15	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-85G-1, 60-75G-1	ST. CLAIR	53	11
CONTRACT NO. 76P67				
ILLINOIS FED. AID PROJECT				



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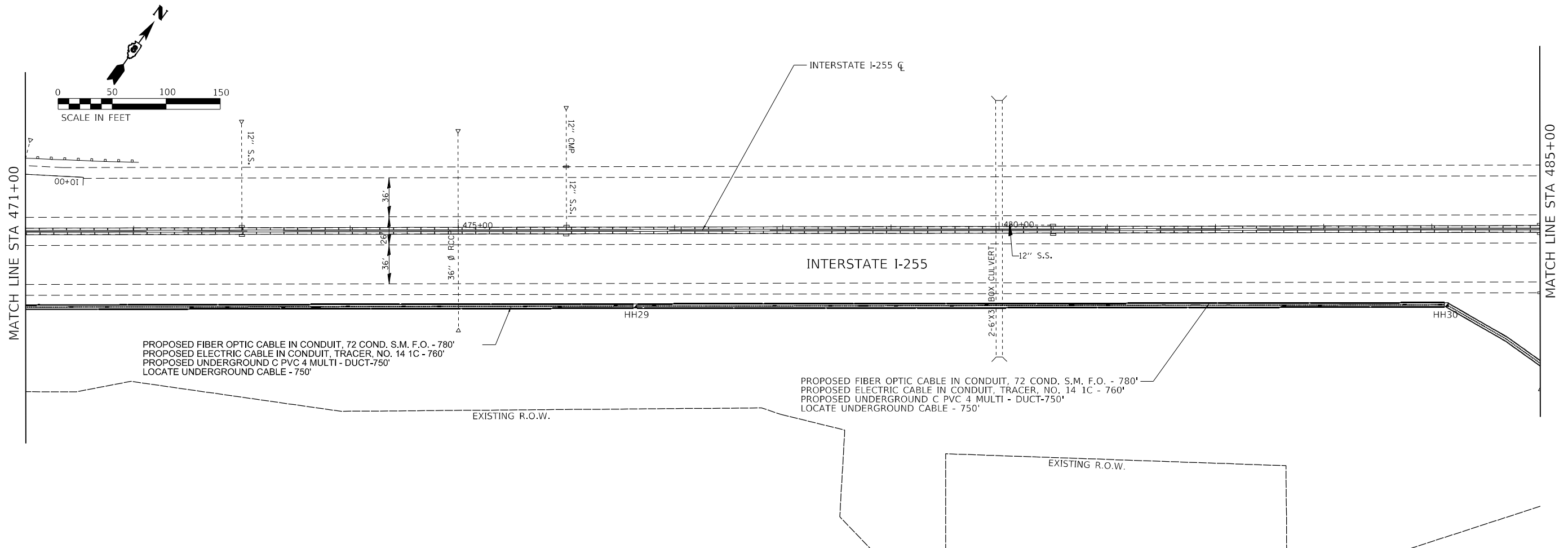
ABNA
 DESIGN FIRM REG. 14-0002117
 745 McClellan Drive
 Suite 210
 Burr Ridge, IL 60527
 Ph: 773-881-4788
 Fax: 773-239-3728

USER NAME = hhadjri	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
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	DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

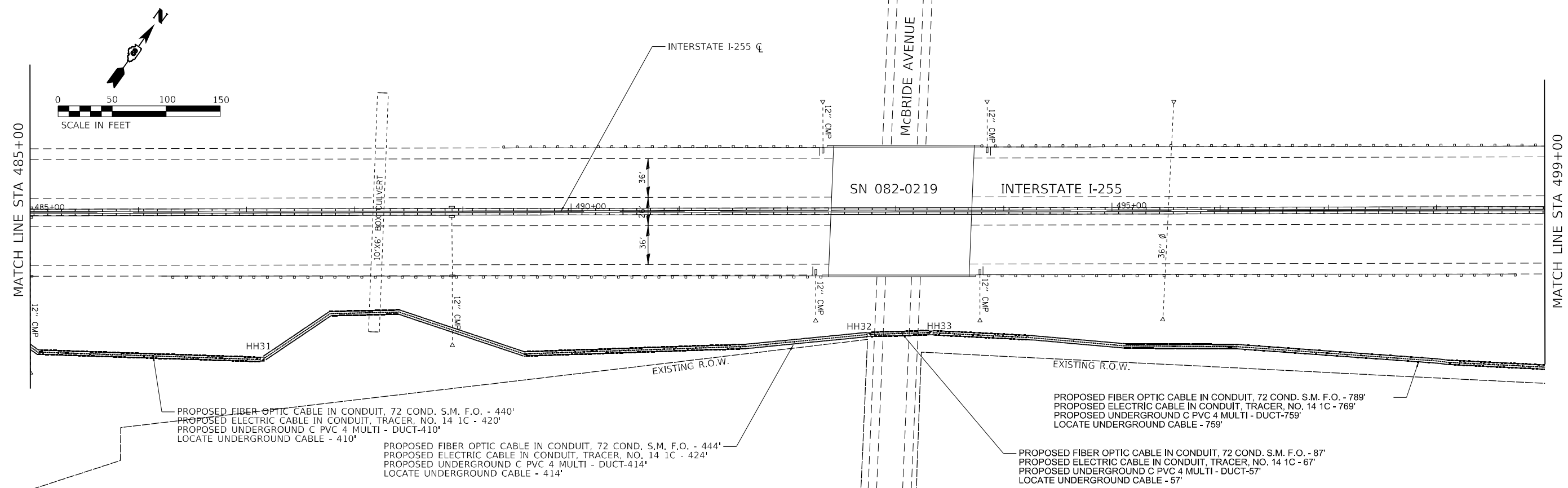
ITS PLAN NORTH OF COLUMBIA TO ILLINOIS 15
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-85G-1, 60-75G-1	ST. CLAIR	53	12
CONTRACT NO. 76P67				
ILLINOIS FED. AID PROJECT				



PROPOSED FIBER OPTIC CABLE IN CONDUIT, 72 COND. S.M. F.O. - 780'
 PROPOSED ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C - 760'
 PROPOSED UNDERGROUND C PVC 4 MULTI - DUCT-750'
 LOCATE UNDERGROUND CABLE - 750'

PROPOSED FIBER OPTIC CABLE IN CONDUIT, 72 COND. S.M. F.O. - 780'
 PROPOSED ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C - 760'
 PROPOSED UNDERGROUND C PVC 4 MULTI - DUCT-750'
 LOCATE UNDERGROUND CABLE - 750'



PROPOSED FIBER OPTIC CABLE IN CONDUIT, 72 COND. S.M. F.O. - 440'
 PROPOSED ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C - 420'
 PROPOSED UNDERGROUND C PVC 4 MULTI - DUCT-410'
 LOCATE UNDERGROUND CABLE - 410'

PROPOSED FIBER OPTIC CABLE IN CONDUIT, 72 COND. S.M. F.O. - 444'
 PROPOSED ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C - 424'
 PROPOSED UNDERGROUND C PVC 4 MULTI - DUCT-414'
 LOCATE UNDERGROUND CABLE - 414'

PROPOSED FIBER OPTIC CABLE IN CONDUIT, 72 COND. S.M. F.O. - 789'
 PROPOSED ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C - 769'
 PROPOSED UNDERGROUND C PVC 4 MULTI - DUCT-759'
 LOCATE UNDERGROUND CABLE - 759'

PROPOSED FIBER OPTIC CABLE IN CONDUIT, 72 COND. S.M. F.O. - 87'
 PROPOSED ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C - 67'
 PROPOSED UNDERGROUND C PVC 4 MULTI - DUCT-57'
 LOCATE UNDERGROUND CABLE - 57'

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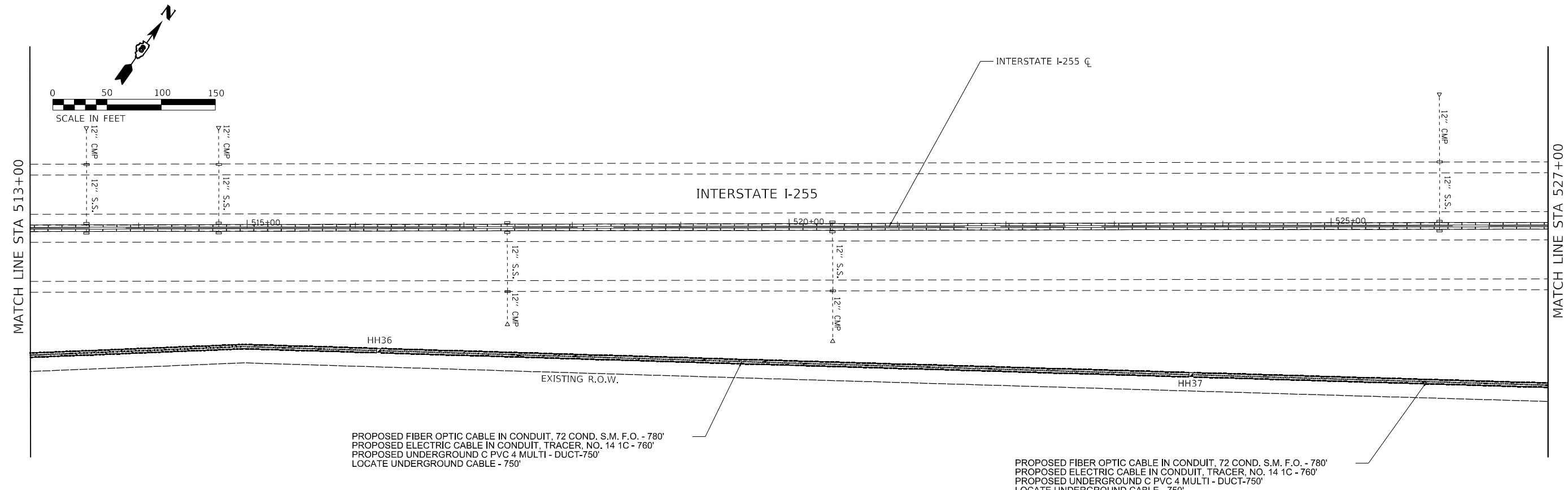
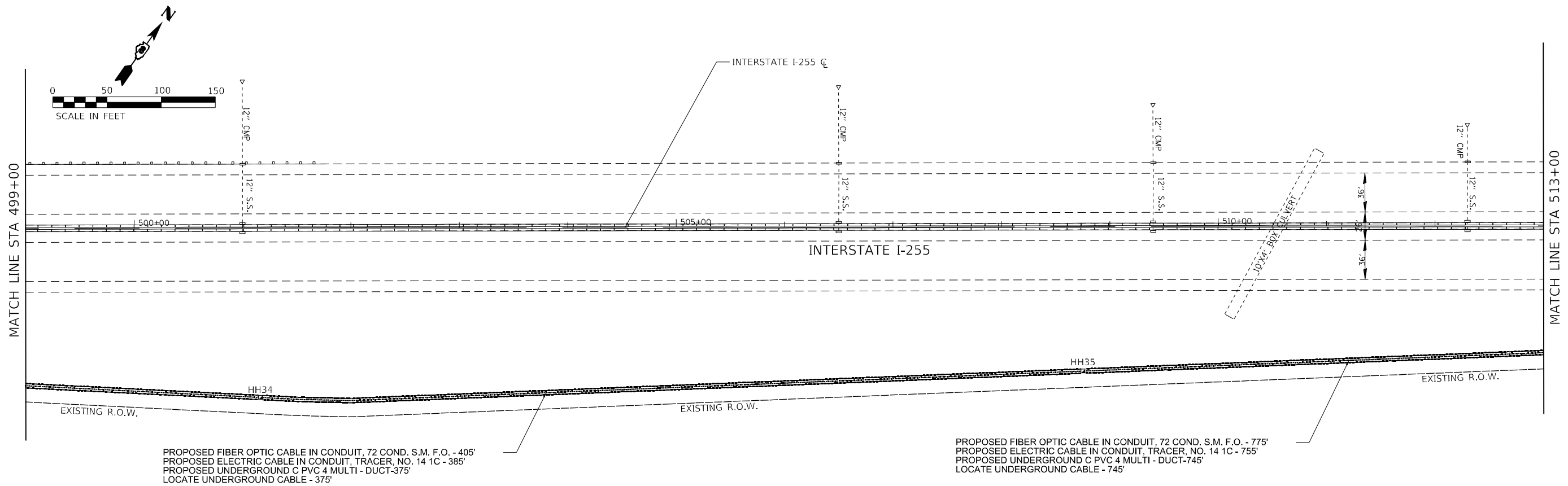
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	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ITS PLAN
 NORTH OF COLUMBIA TO ILLINOIS 15**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-85G-1, 60-75G-1	ST. CLAIR	53	13
CONTRACT NO. 76P67				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.



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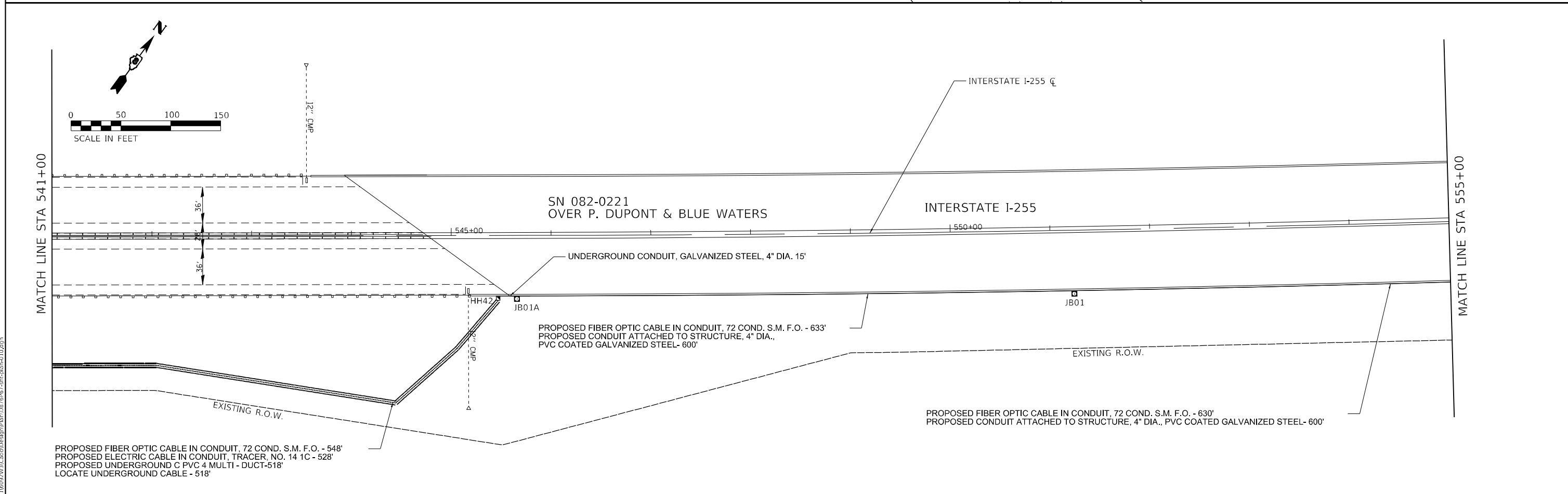
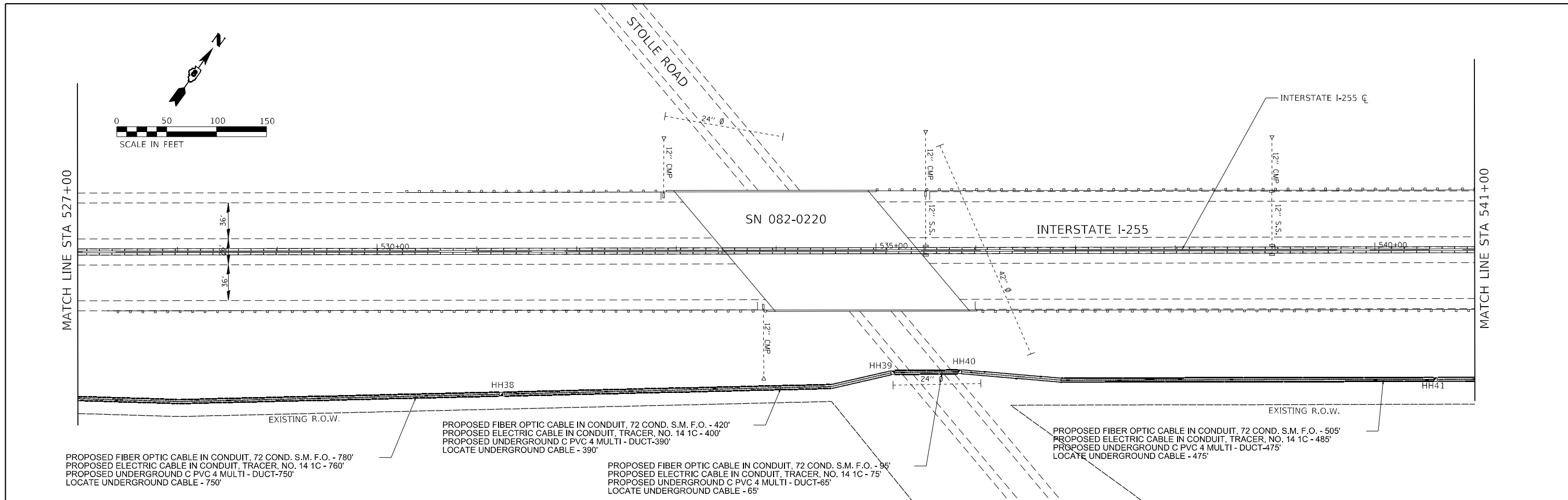
ABNA
 745 McClintock Drive
 Suite 210
 Burr Ridge, IL 60527
 Ph: 773-881-4788
 Fax: 773-239-3728

USER NAME = hhadjri	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 4/19/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ITS PLAN			
NORTH OF COLUMBIA TO ILLINOIS 15			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-85G-1, 60-75G-1	ST. CLAIR	53	14
CONTRACT NO. 76P67				
ILLINOIS FED. AID PROJECT				



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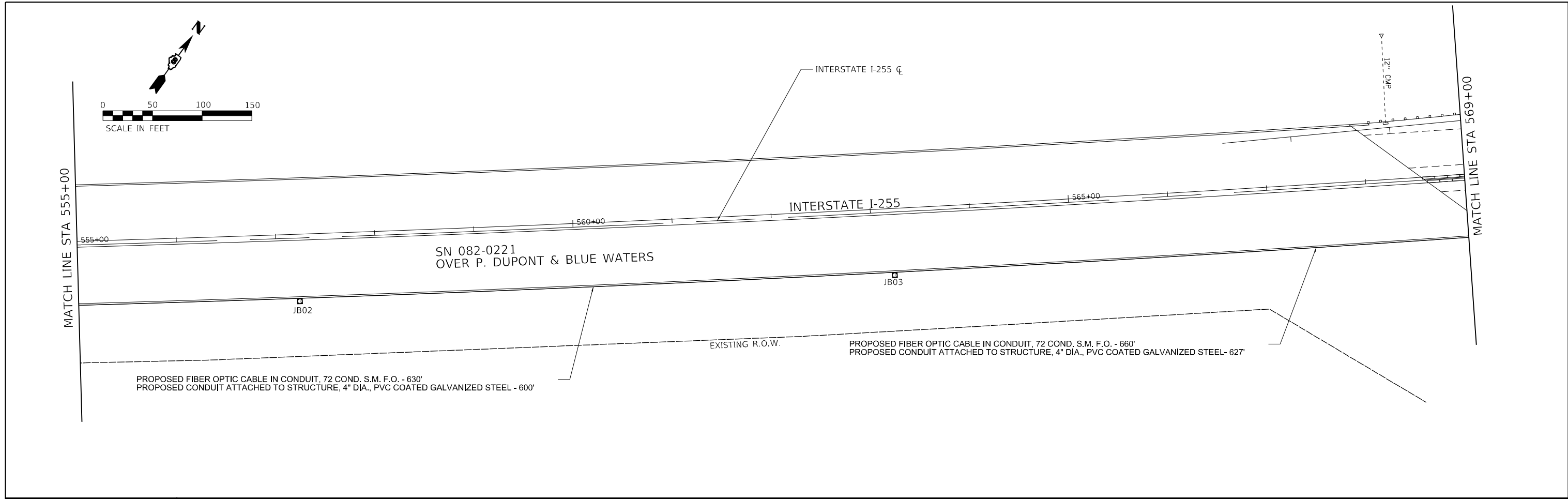
ABNA
 DESIGN FIRM REG. 14-002117
 745 McClellan Drive
 Suite 210
 Burr Ridge, IL 60527
 Ph: 773-881-4788
 Fax: 773-239-3728

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ITS PLAN				
NORTH OF COLUMBIA TO ILLINOIS 15				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-85G-1, 60-75G-1	ST. CLAIR	53	15
CONTRACT NO. 76P67				
ILLINOIS FED. AID PROJECT				



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745 McClellan Drive
 Burr Ridge, IL 60527
 Ph: 773-881-4788
 Fax: 773-239-3728

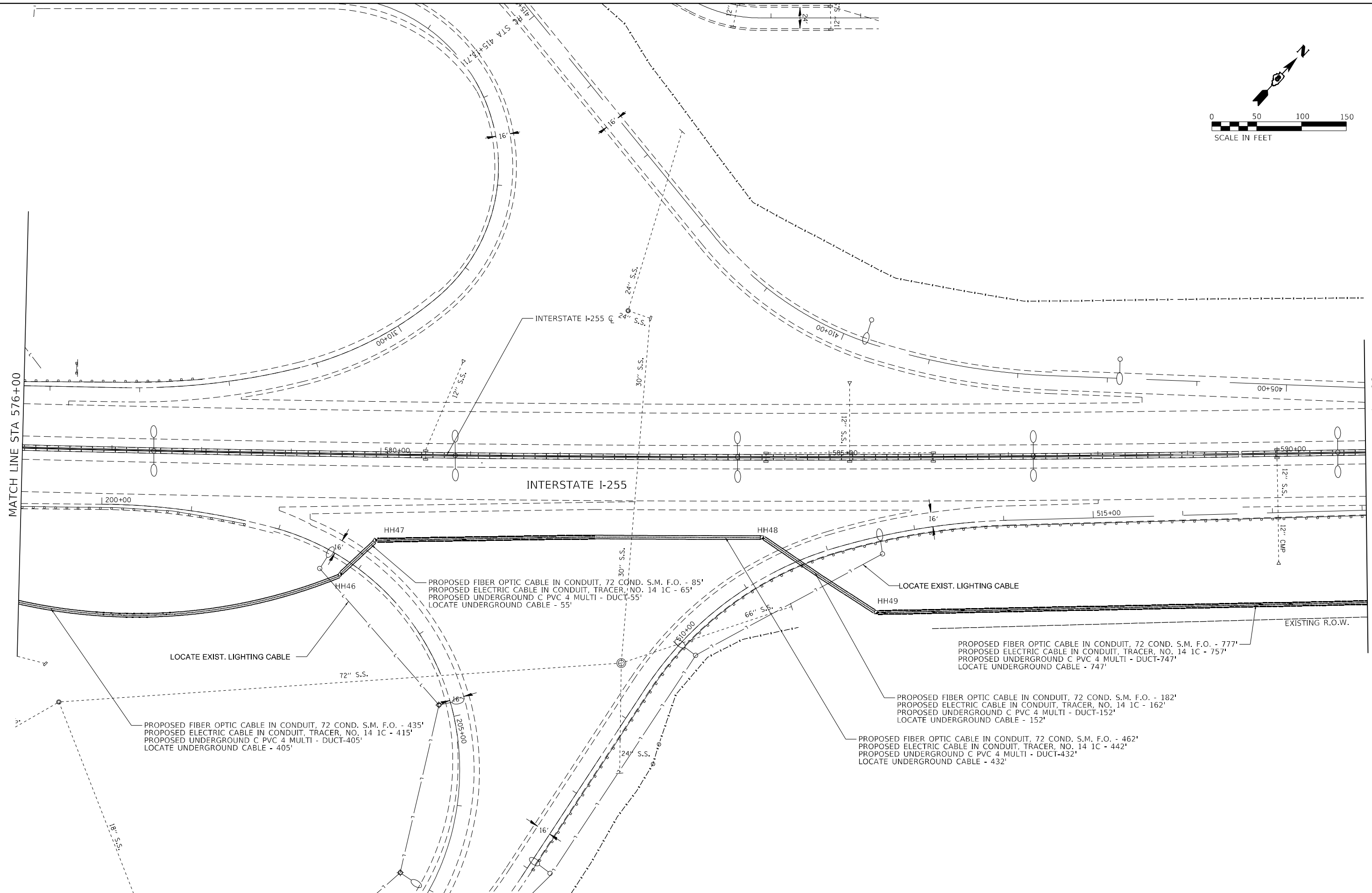
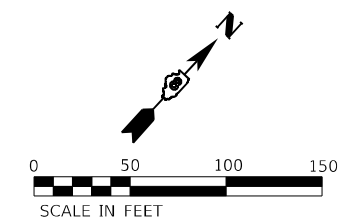
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ITS PLAN
 NORTH OF COLUMBIA TO ILLINOIS 15**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-85G-1, 60-75G-1	ST. CLAIR	53	16
CONTRACT NO. 76P67				
ILLINOIS FED. AID PROJECT				



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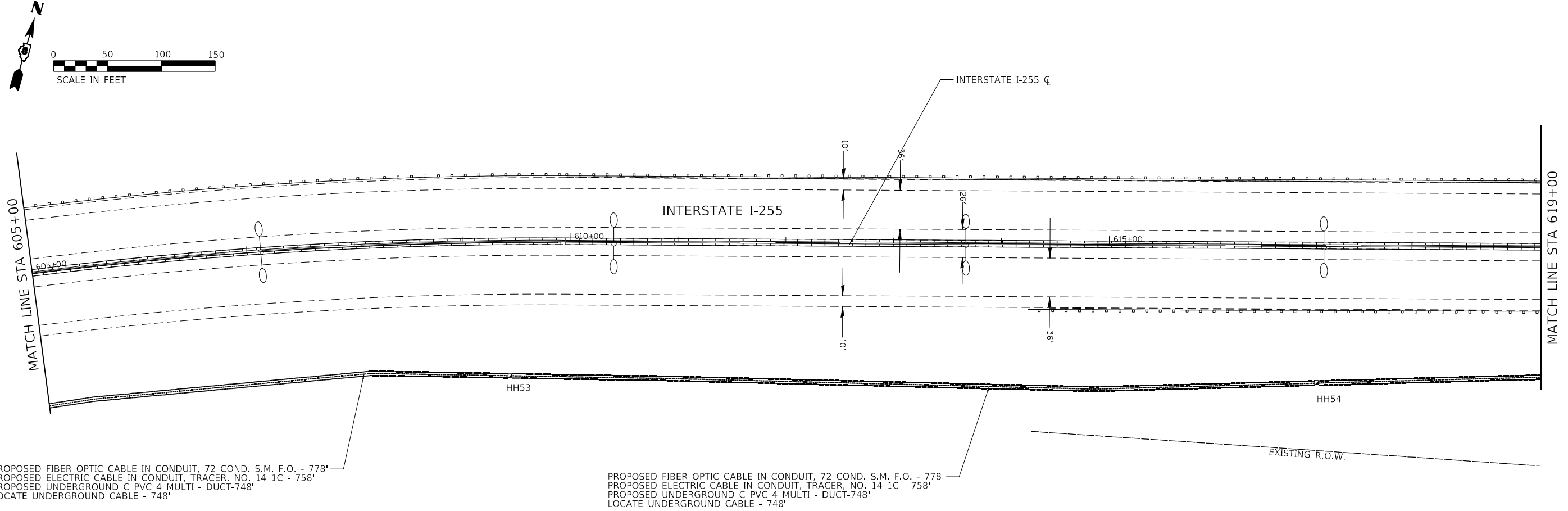
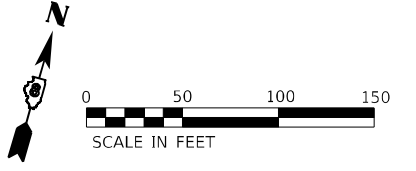
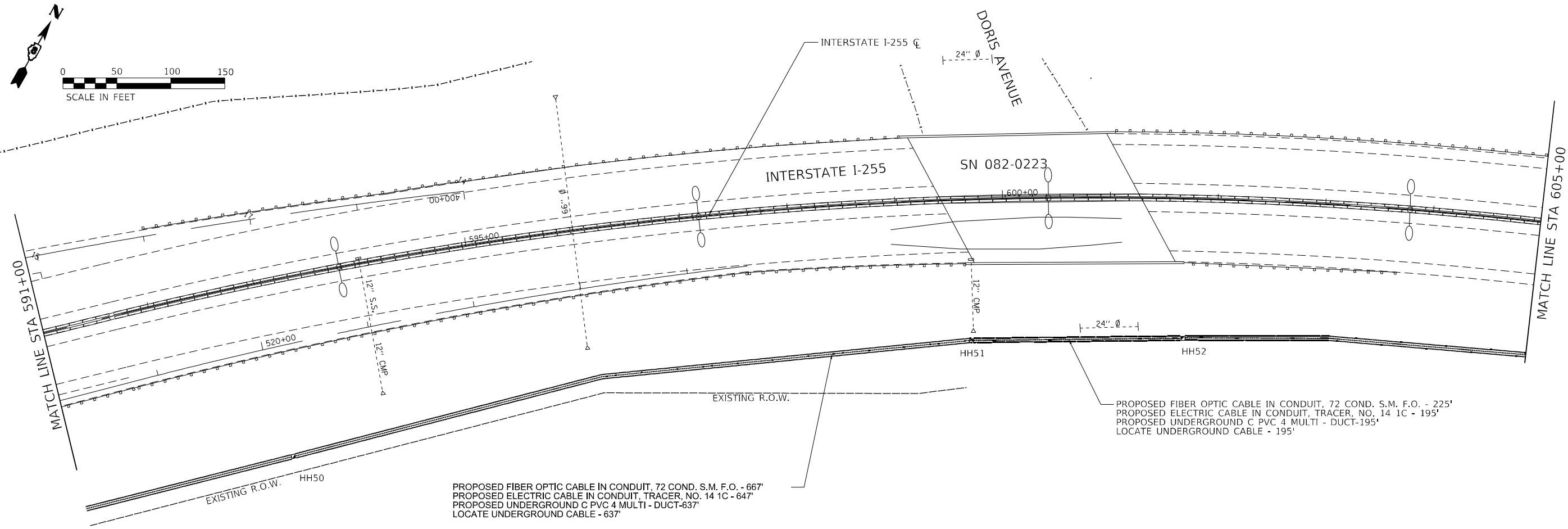
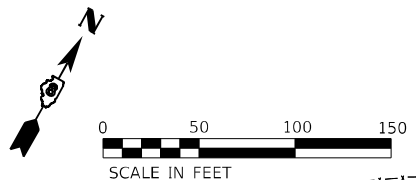
ABNA
 DESIGN FIRM REG. 14-0002117
 745 McClellan Drive
 Suite 210
 Burr Ridge, IL 60527
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 Fax: 773-239-3728

USER NAME = hhadjri	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 4/19/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ITS PLAN				
NORTH OF COLUMBIA TO ILLINOIS 15				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-85G-1, 60-75G-1	ST. CLAIR	53	17
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76P67	



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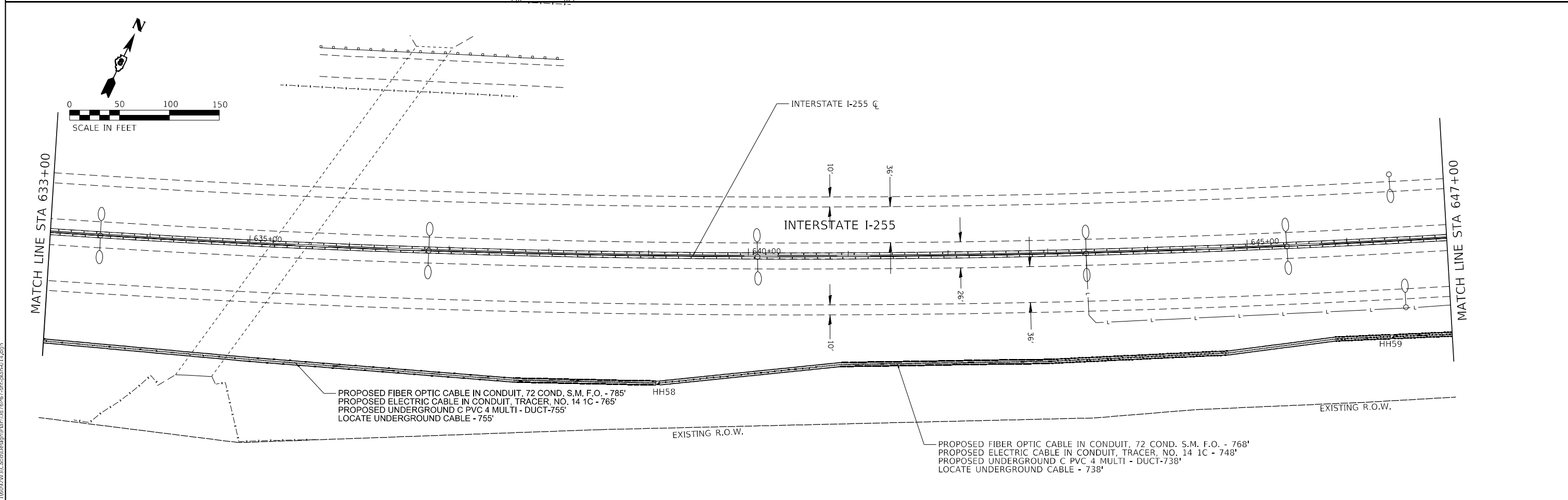
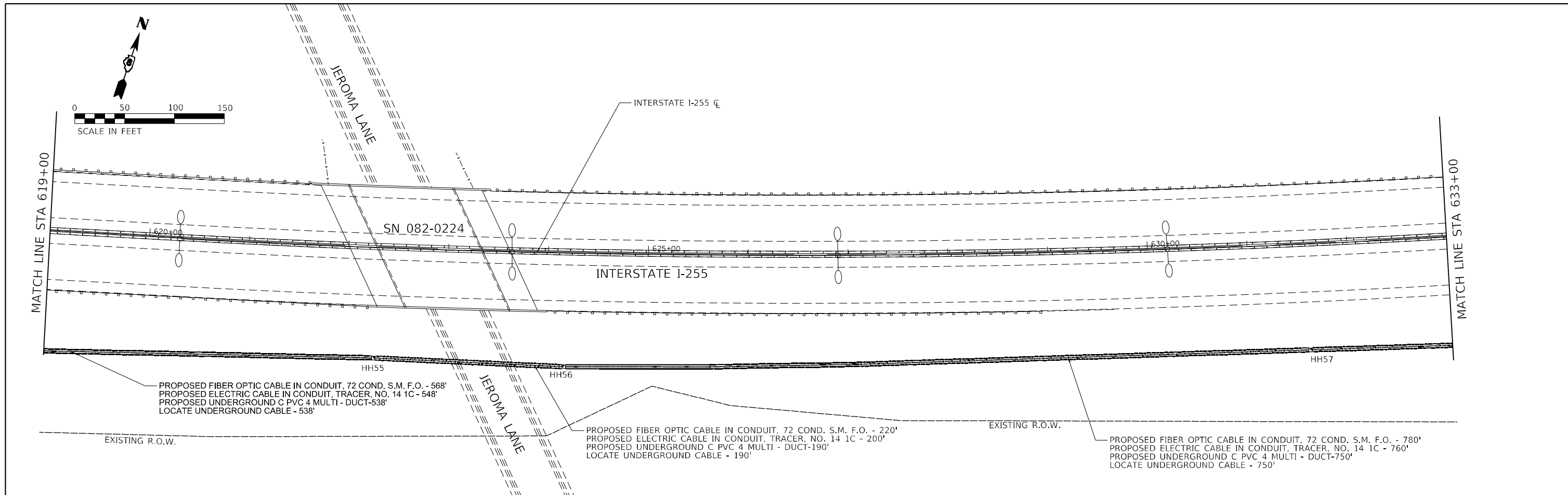
ABNA
 745 McClellan Drive
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ITS PLAN				
NORTH OF COLUMBIA TO ILLINOIS 15				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-85G-1, 60-75G-1	ST. CLAIR	53	18
CONTRACT NO. 76P67				
ILLINOIS FED. AID PROJECT				



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 Fax: 773-239-3728

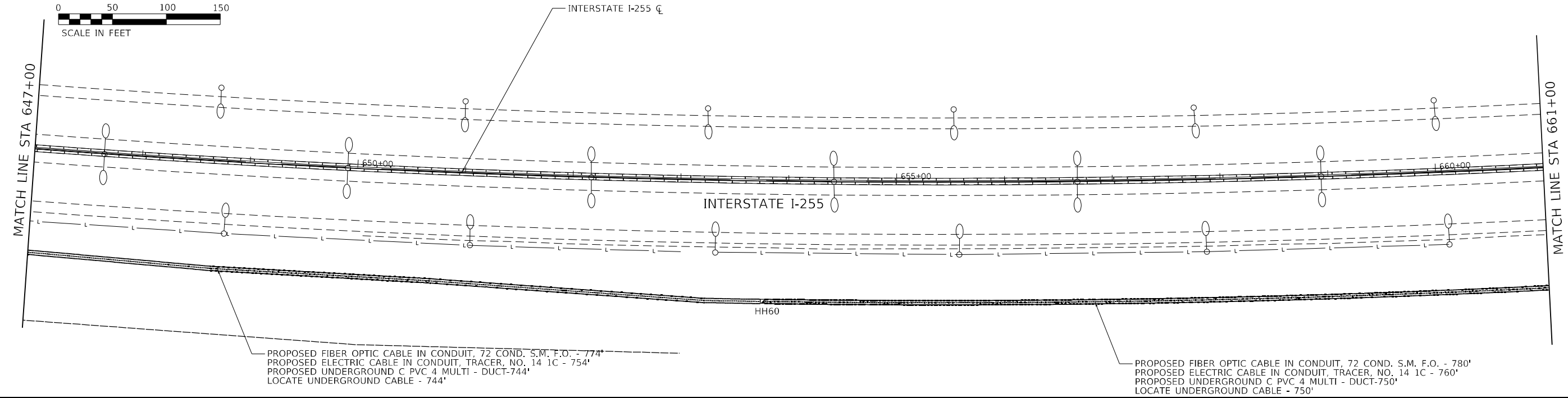
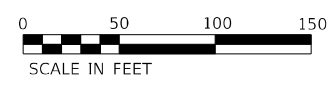
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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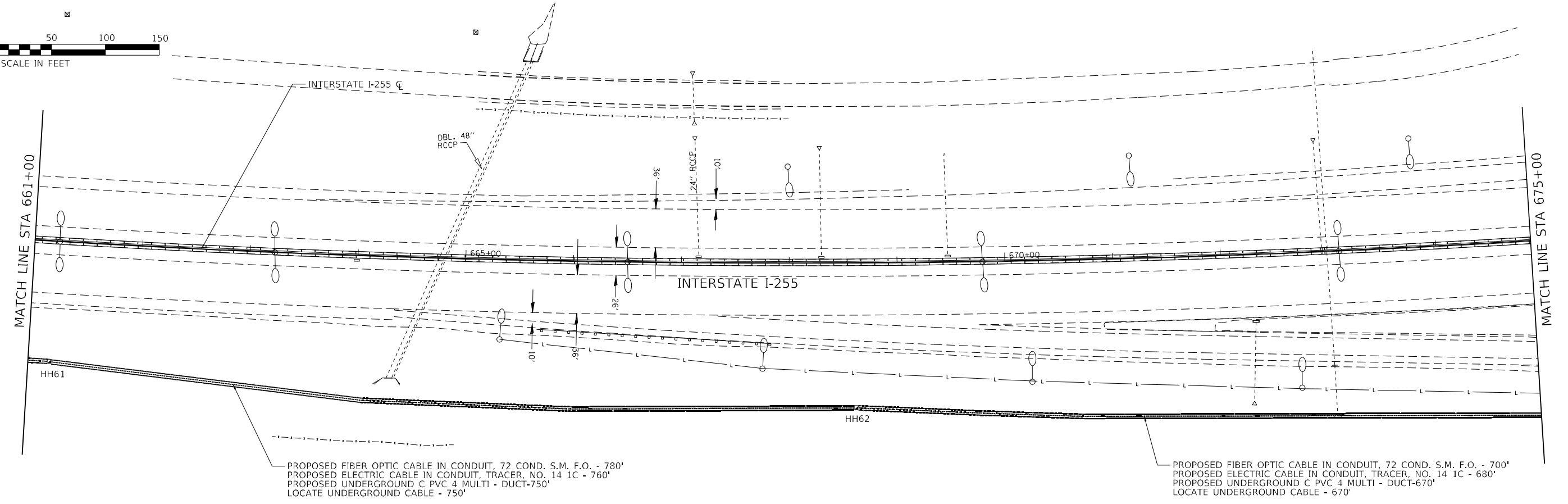
ITS PLAN	
NORTH OF COLUMBIA TO ILLINOIS 15	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-85G-1, 60-75G-1	ST. CLAIR	53	19
CONTRACT NO. 76P67				
ILLINOIS FED. AID PROJECT				



PROPOSED FIBER OPTIC CABLE IN CONDUIT, 72 COND. S.M. F.O. - 774'
 PROPOSED ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C - 754'
 PROPOSED UNDERGROUND C PVC 4 MULTI - DUCT-744'
 LOCATE UNDERGROUND CABLE - 744'

PROPOSED FIBER OPTIC CABLE IN CONDUIT, 72 COND. S.M. F.O. - 780'
 PROPOSED ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C - 760'
 PROPOSED UNDERGROUND C PVC 4 MULTI - DUCT-750'
 LOCATE UNDERGROUND CABLE - 750'



PROPOSED FIBER OPTIC CABLE IN CONDUIT, 72 COND. S.M. F.O. - 780'
 PROPOSED ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C - 760'
 PROPOSED UNDERGROUND C PVC 4 MULTI - DUCT-750'
 LOCATE UNDERGROUND CABLE - 750'

PROPOSED FIBER OPTIC CABLE IN CONDUIT, 72 COND. S.M. F.O. - 700'
 PROPOSED ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C - 680'
 PROPOSED UNDERGROUND C PVC 4 MULTI - DUCT-670'
 LOCATE UNDERGROUND CABLE - 670'

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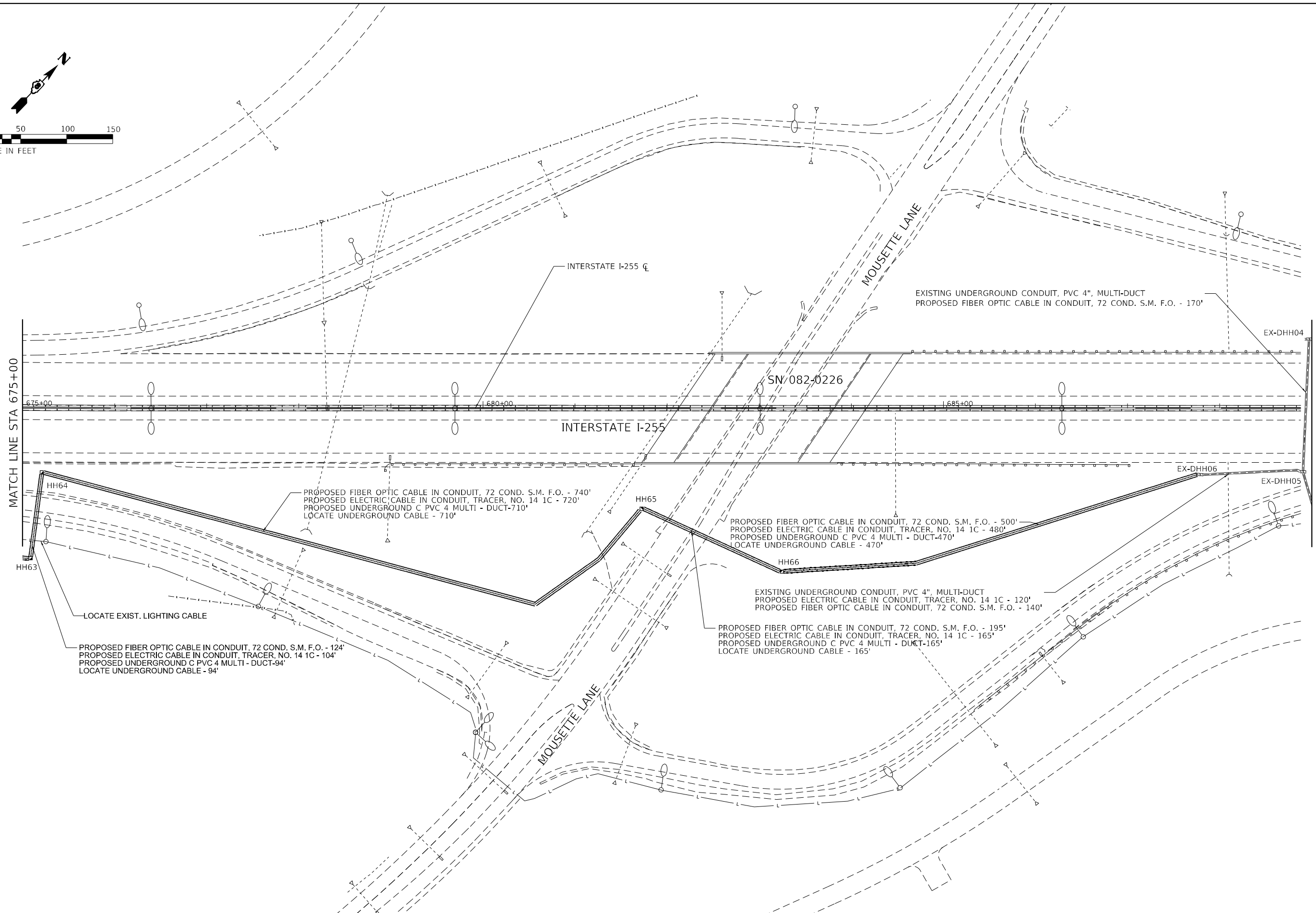
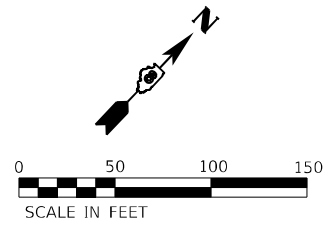
ABNA
 DESIGN FIRM REG. 164002117
 745 McClellan Drive
 Suite 210
 Burr Ridge, IL 60527
 Ph: 773-881-4788
 Fax: 773-239-3728

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	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ITS PLAN				
NORTH OF COLUMBIA TO ILLINOIS 15				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-85G-1, 60-75G-1	ST. CLAIR	53	20
CONTRACT NO. 76P67				
ILLINOIS FED. AID PROJECT				



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 745 McClintock Drive
 Suite 210
 Burr Ridge, IL 60527
 Ph: 773-881-4788
 Fax: 773-239-3728

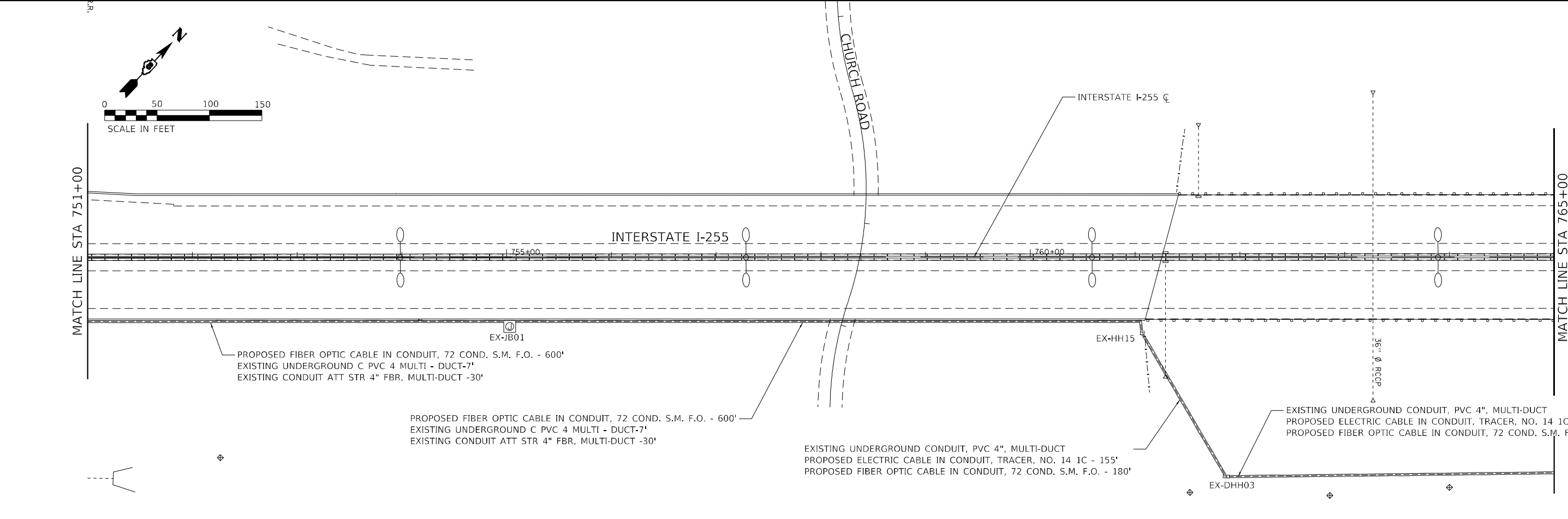
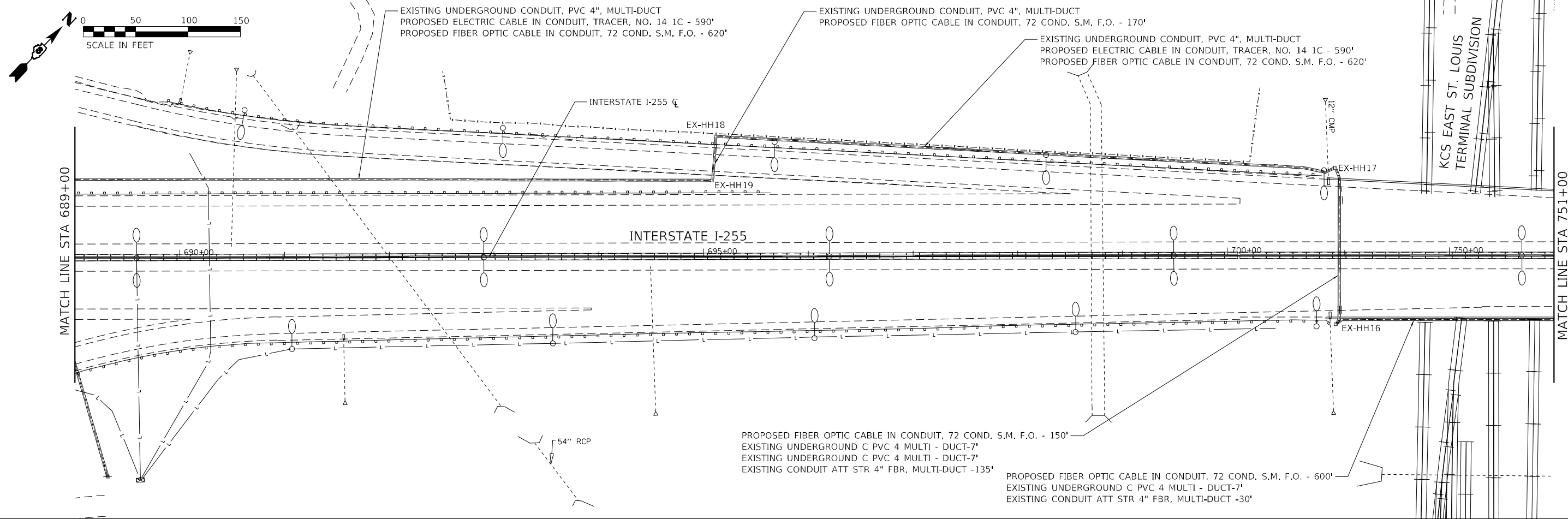
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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS PLAN
NORTH OF COLUMBIA TO ILLINOIS 15

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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				CONTRACT NO. 76P67
ILLINOIS FED. AID PROJECT				



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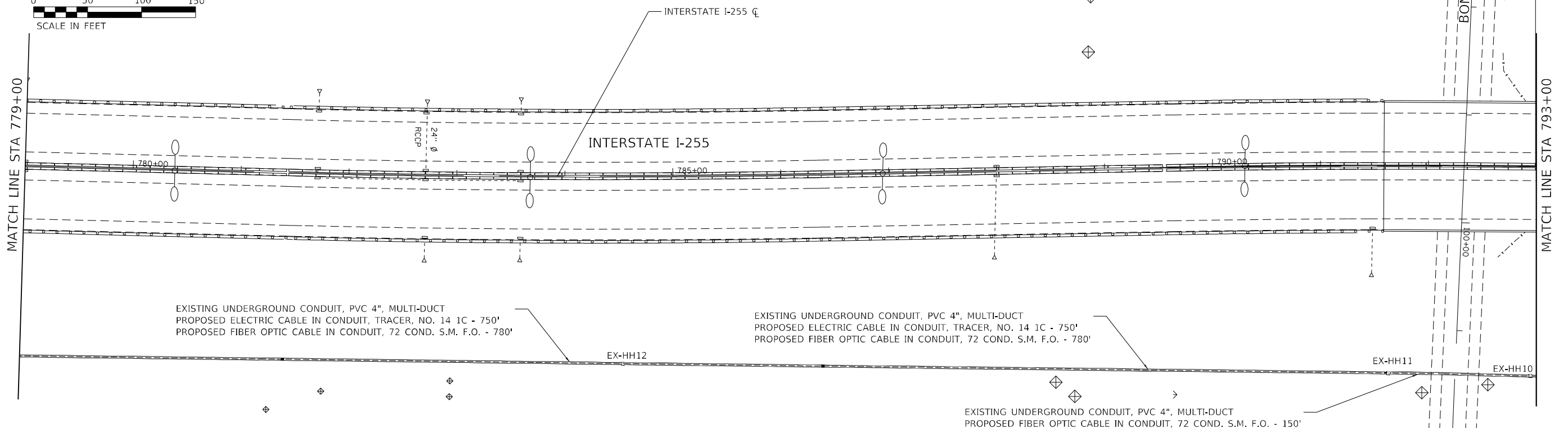
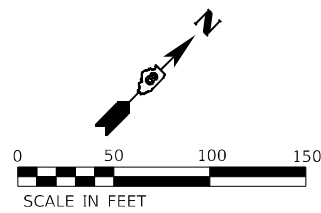
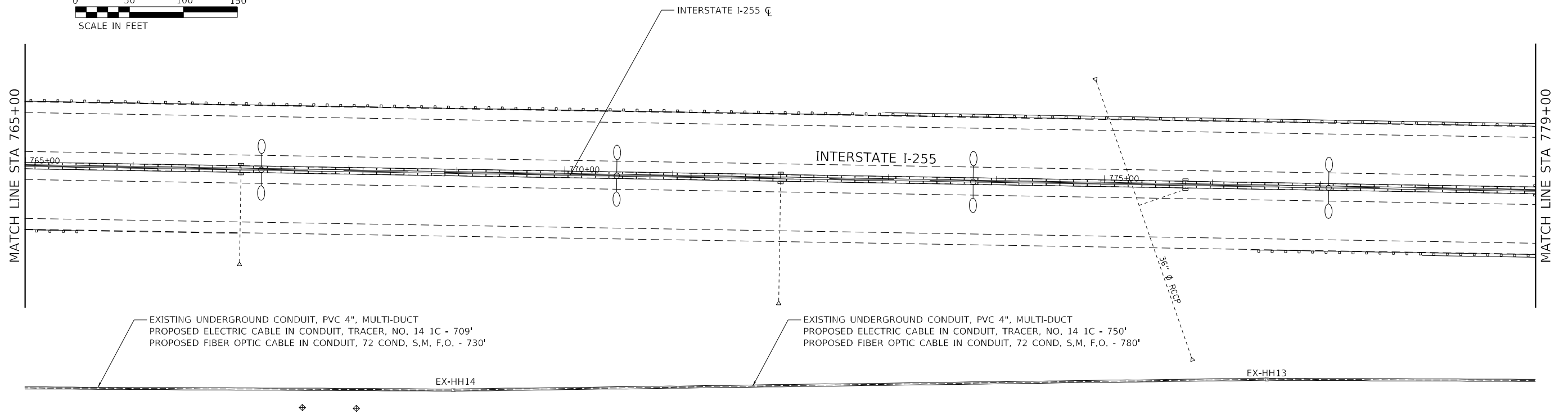
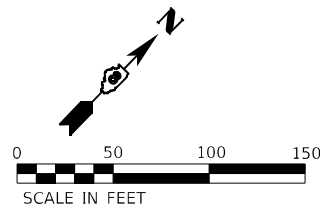
ABNA
 745 McClellan Drive
 Suite 210
 Burr Ridge, IL 60527
 Ph: 773-881-4788
 Fax: 773-239-3728

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ITS PLAN NORTH OF COLUMBIA TO ILLINOIS 15			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-85G-1, 60-75G-1	ST. CLAIR	53	22
CONTRACT NO. 76P67				
ILLINOIS FED. AID PROJECT				



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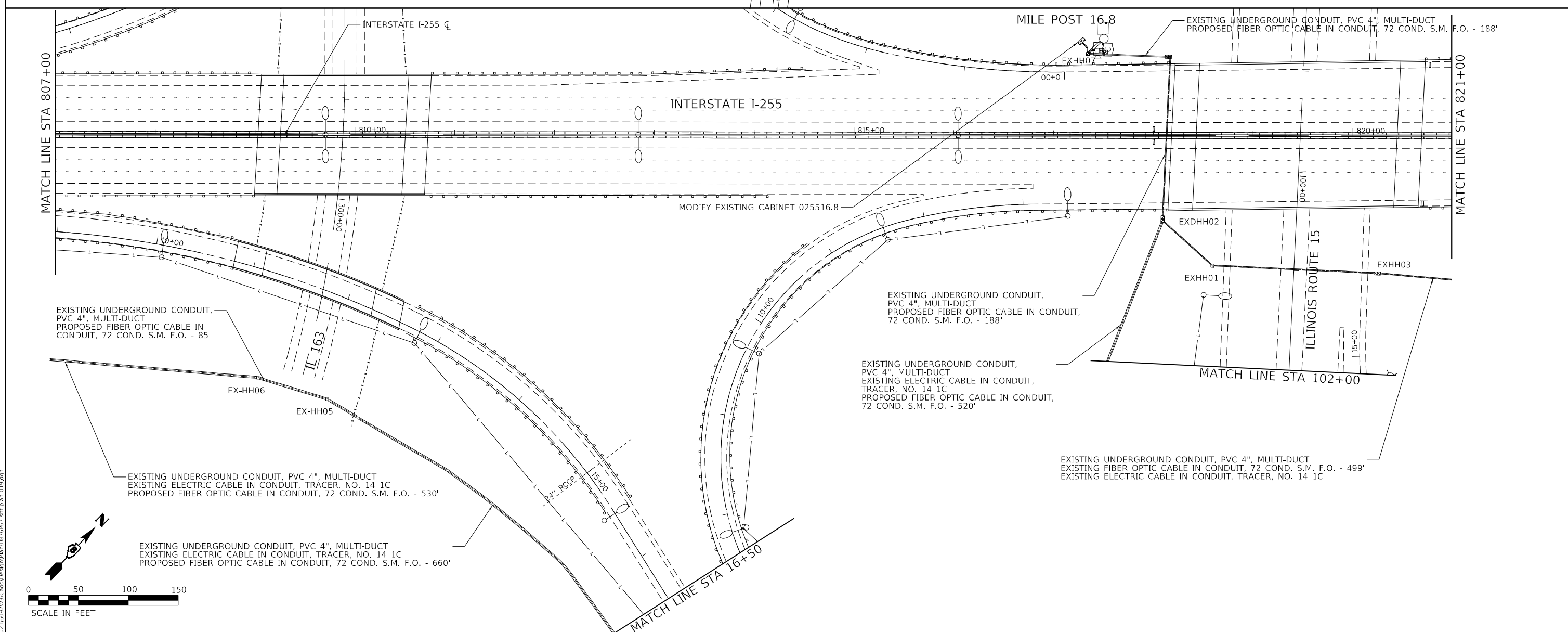
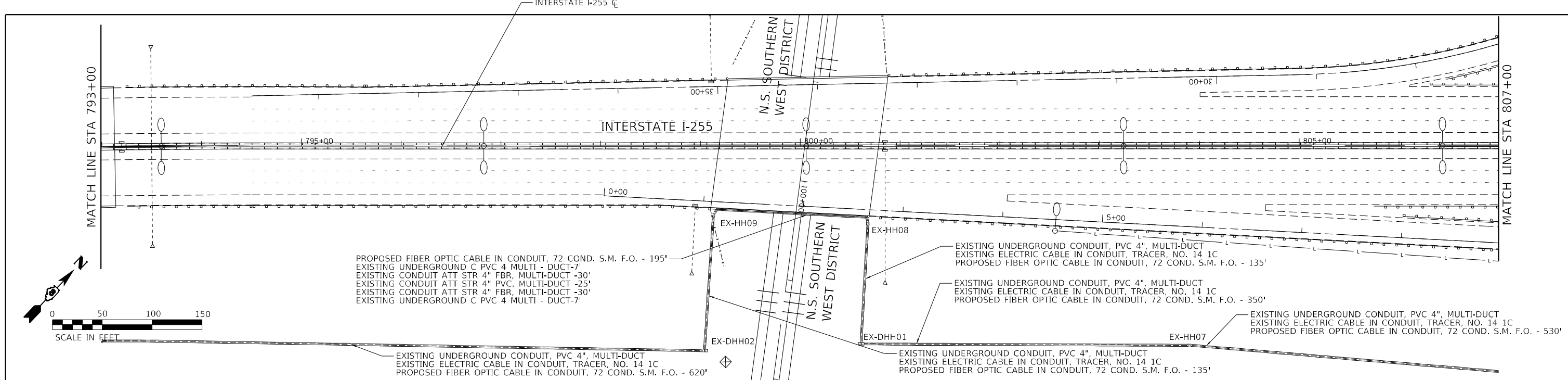
745 McClintock Drive
Suite 210
Burr Ridge, IL 60527
Ph: 773-881-4788
Fax: 773-239-3728

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PLOT DATE = 4/19/2023	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS PLAN	
NORTH OF COLUMBIA TO ILLINOIS 15	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-85G-1, 60-75G-1	ST. CLAIR	53	23
CONTRACT NO. 76P67				
ILLINOIS FED. AID PROJECT				



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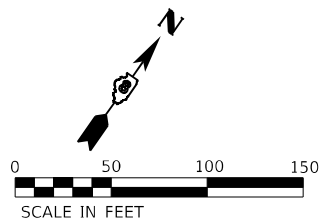
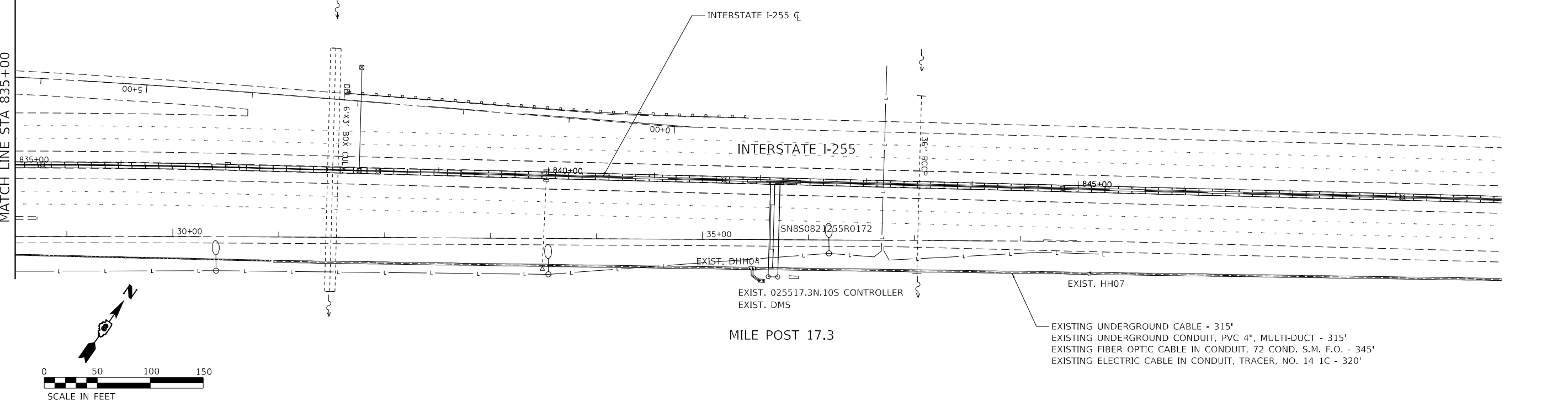
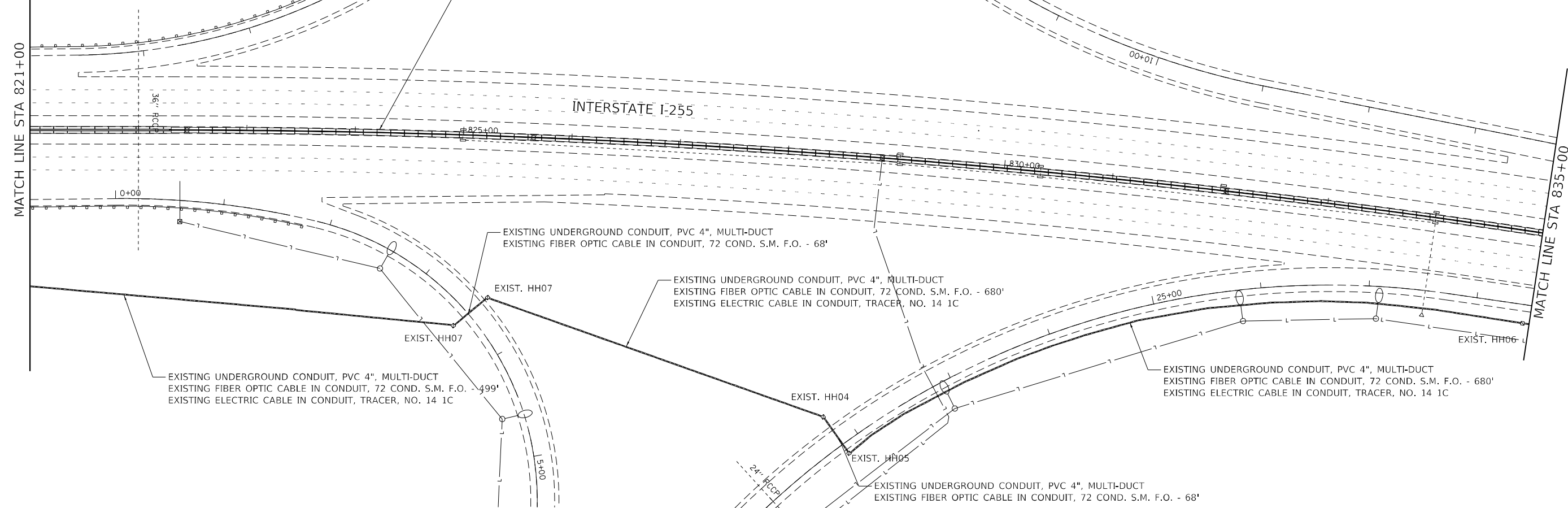
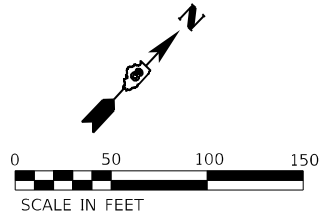
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	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ITS PLAN
 NORTH OF COLUMBIA TO ILLINOIS 15**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-85G-1, 60-75G-1	ST. CLAIR	53	24
CONTRACT NO. 76P67				
ILLINOIS FED. AID PROJECT				



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 745 McClintock Drive
 Burr Ridge, IL 60527
 Ph: 773-881-4788
 Fax: 773-239-3728

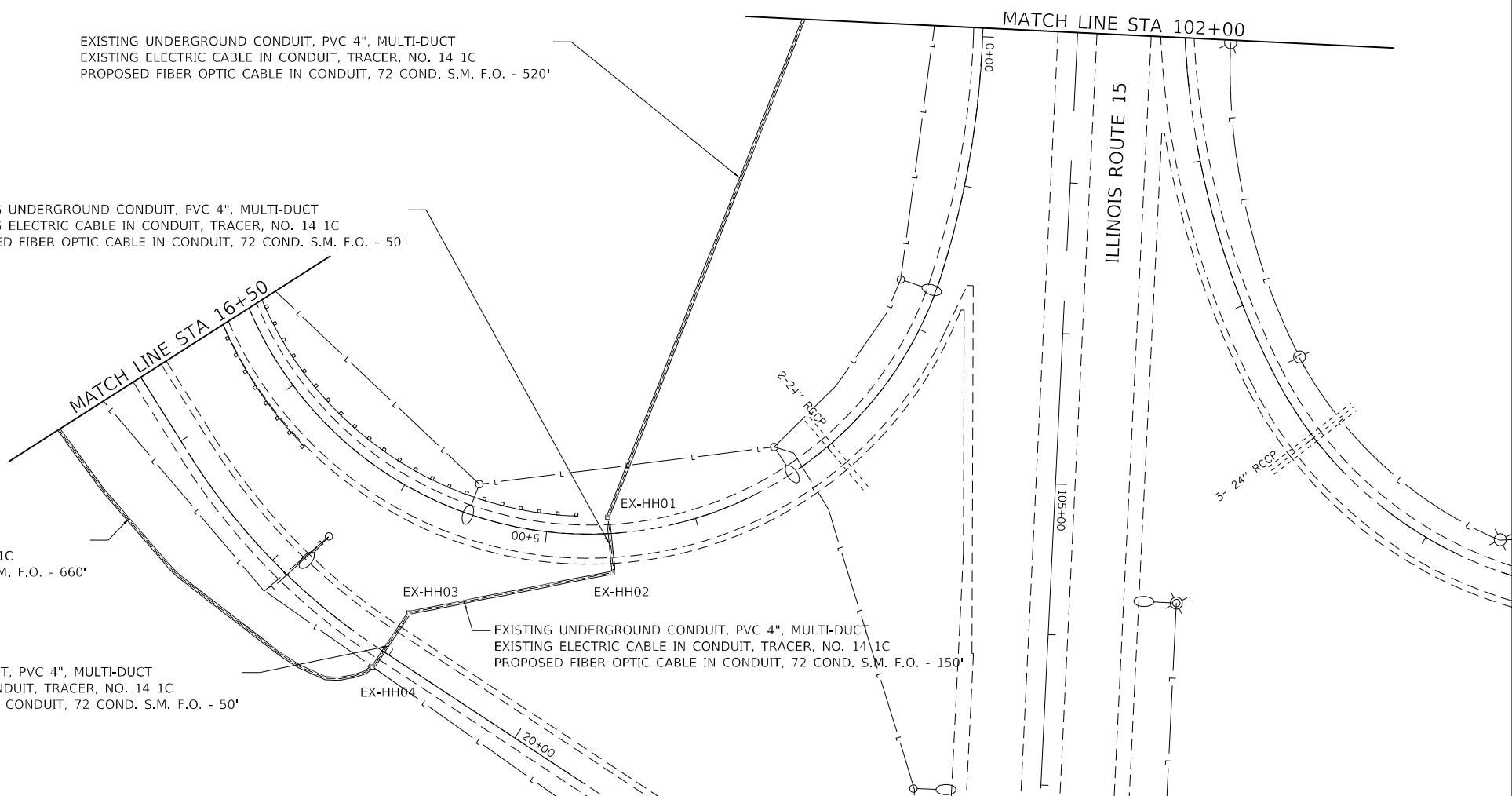
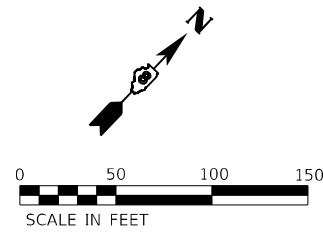
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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:		SHEET	OF	SHEETS	STA.	TO	STA.

ITS PLAN
NORTH OF COLUMBIA TO ILLINOIS 15

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-85G-1, 60-75G-1	ST. CLAIR	53	25
CONTRACT NO. 76P67				
ILLINOIS FED. AID PROJECT				



EXISTING UNDERGROUND CONDUIT, PVC 4", MULTI-DUCT
 EXISTING ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C
 PROPOSED FIBER OPTIC CABLE IN CONDUIT, 72 COND. S.M. F.O. - 520'

EXISTING UNDERGROUND CONDUIT, PVC 4", MULTI-DUCT
 EXISTING ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C
 PROPOSED FIBER OPTIC CABLE IN CONDUIT, 72 COND. S.M. F.O. - 50'

EXISTING UNDERGROUND CONDUIT, PVC 4", MULTI-DUCT
 EXISTING ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C
 PROPOSED FIBER OPTIC CABLE IN CONDUIT, 72 COND. S.M. F.O. - 660'

EXISTING UNDERGROUND CONDUIT, PVC 4", MULTI-DUCT
 EXISTING ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C
 PROPOSED FIBER OPTIC CABLE IN CONDUIT, 72 COND. S.M. F.O. - 50'

EXISTING UNDERGROUND CONDUIT, PVC 4", MULTI-DUCT
 EXISTING ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C
 PROPOSED FIBER OPTIC CABLE IN CONDUIT, 72 COND. S.M. F.O. - 150'

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745 McClintock Drive
 Suite 210
 Burr Ridge, IL 60527
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 Fax: 773-239-3728

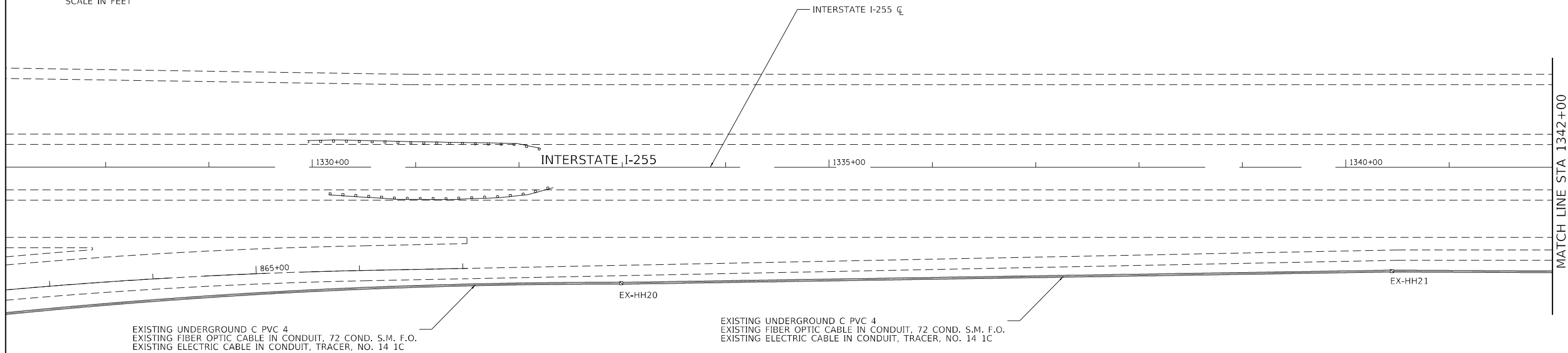
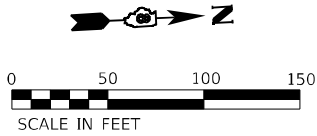
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ITS PLAN
 NORTH OF COLUMBIA TO ILLINOIS 15**

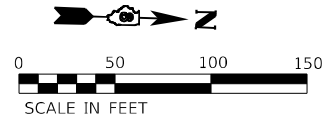
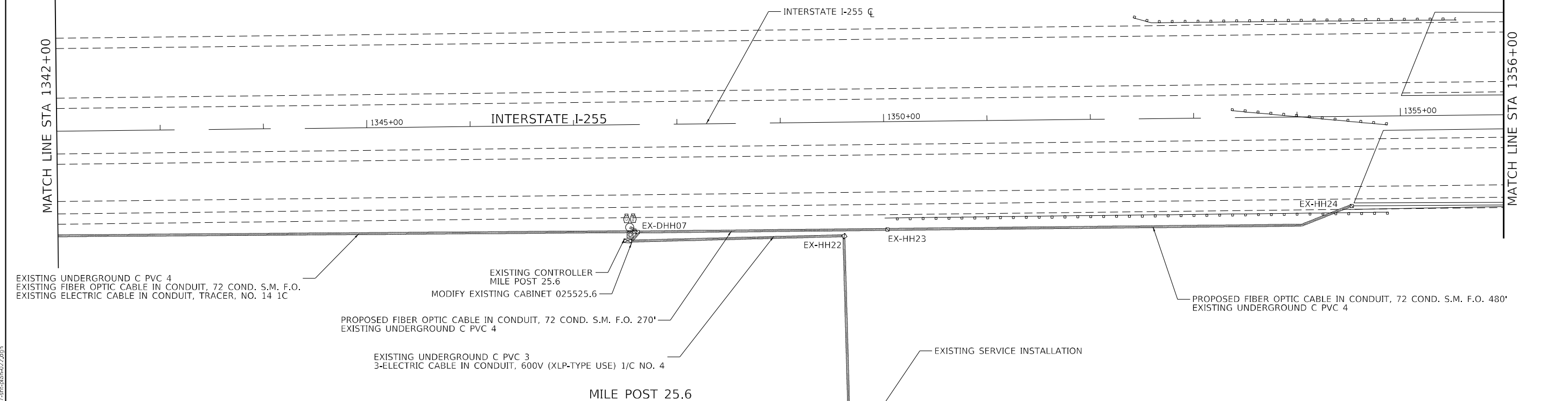
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-8SG-1, 60-75G-1	ST. CLAIR	53	26
CONTRACT NO. 76P67				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.



MATCH LINE STA 1342+00

MATCH LINE STA 1356+00



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745 McClintock Drive
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Burr Ridge, IL 60527
Ph: 773-881-4788
Fax: 773-239-3728

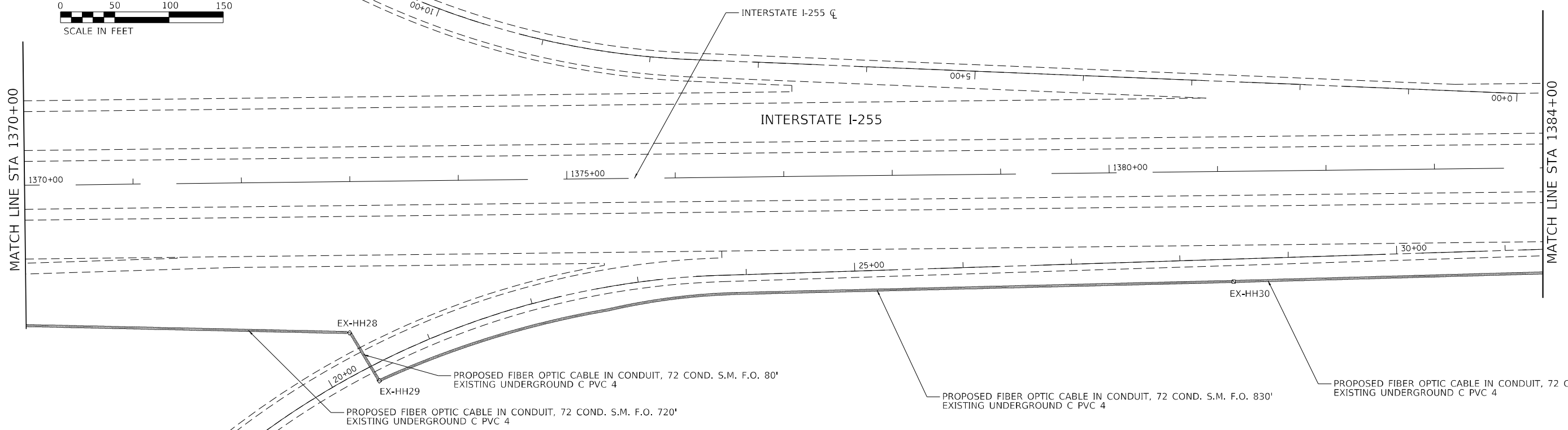
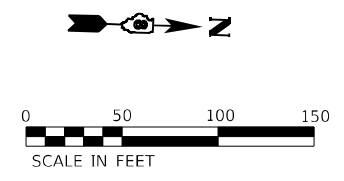
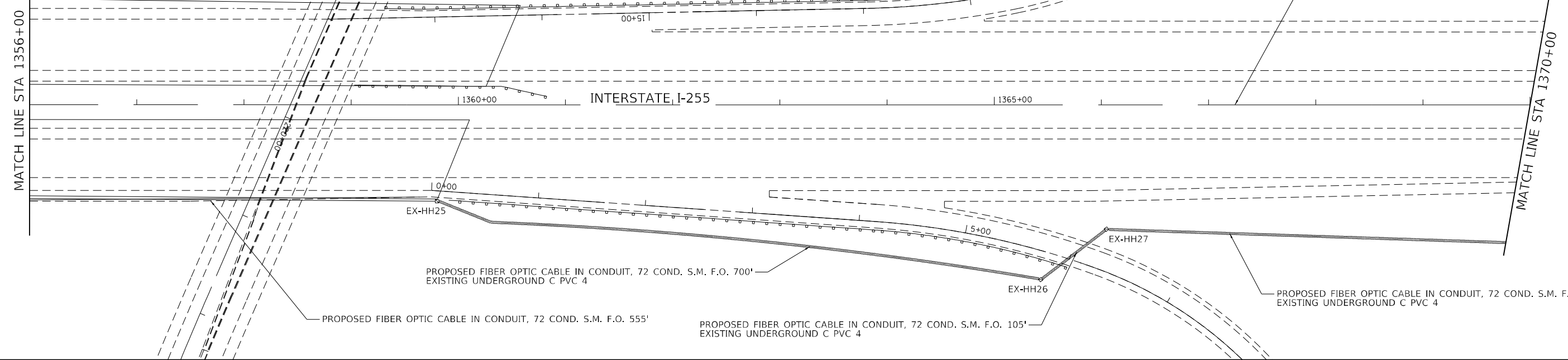
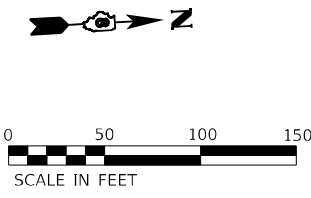
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ITS PLAN
NORTH OF I-55/70 TO NORTH OF HORSESHOE LAKE ROAD**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-85G-1, 60-75G-1	MADISON	53	27
CONTRACT NO. 76P67				
ILLINOIS FED. AID PROJECT				



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 Suite 210
 Burr Ridge, IL 60527
 Ph: 773-881-4788
 Fax: 773-239-3728

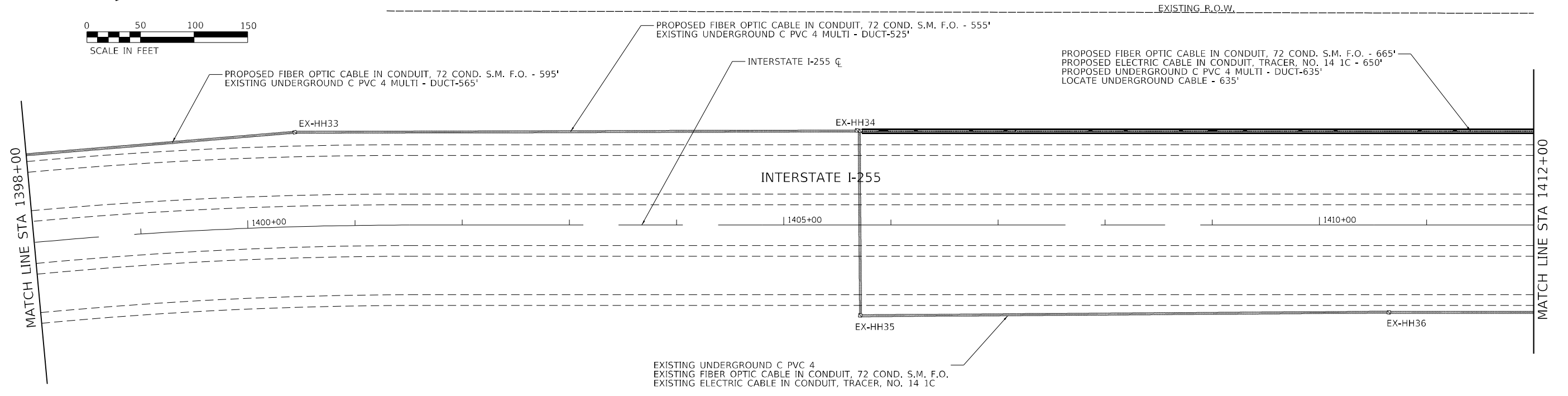
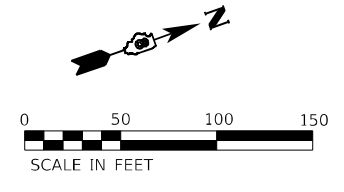
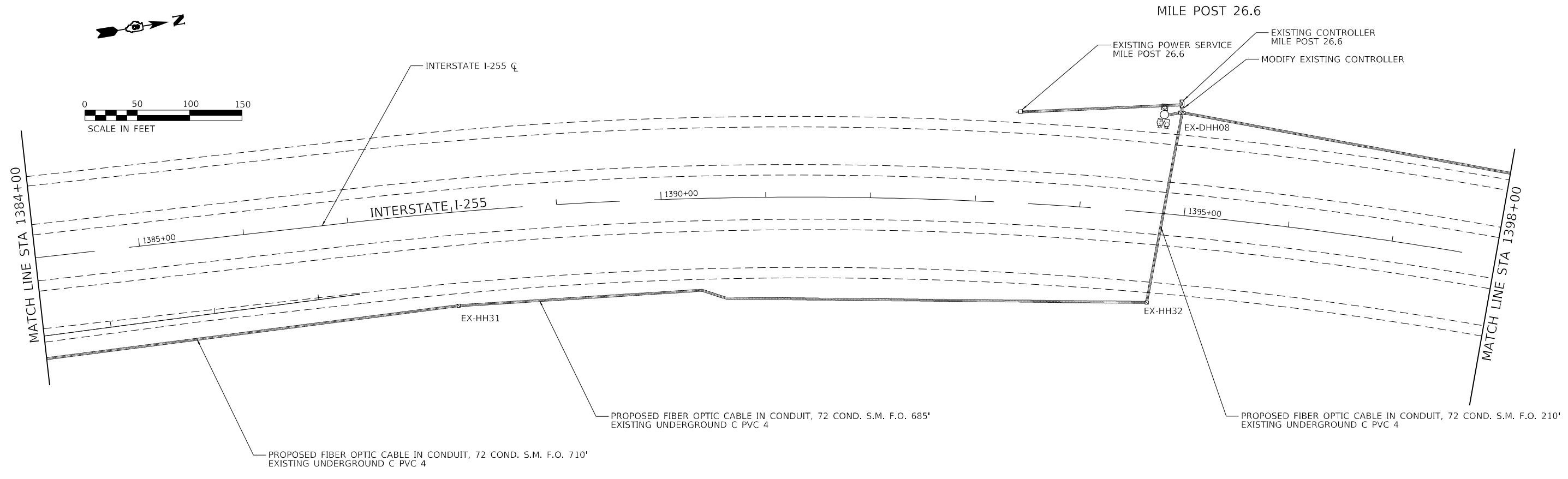
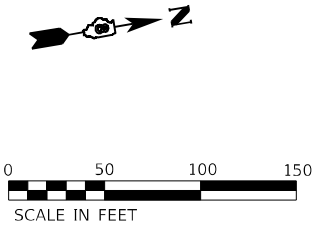
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS PLAN
NORTH OF I-55/TO TO NORTH OF HORSESHOE LAKE ROAD

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-85G-1, 60-75G-1	MADISON	53	28
CONTRACT NO. 76P67				
ILLINOIS FED. AID PROJECT				



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 Ph: 773-881-4788
 Fax: 773-239-3728

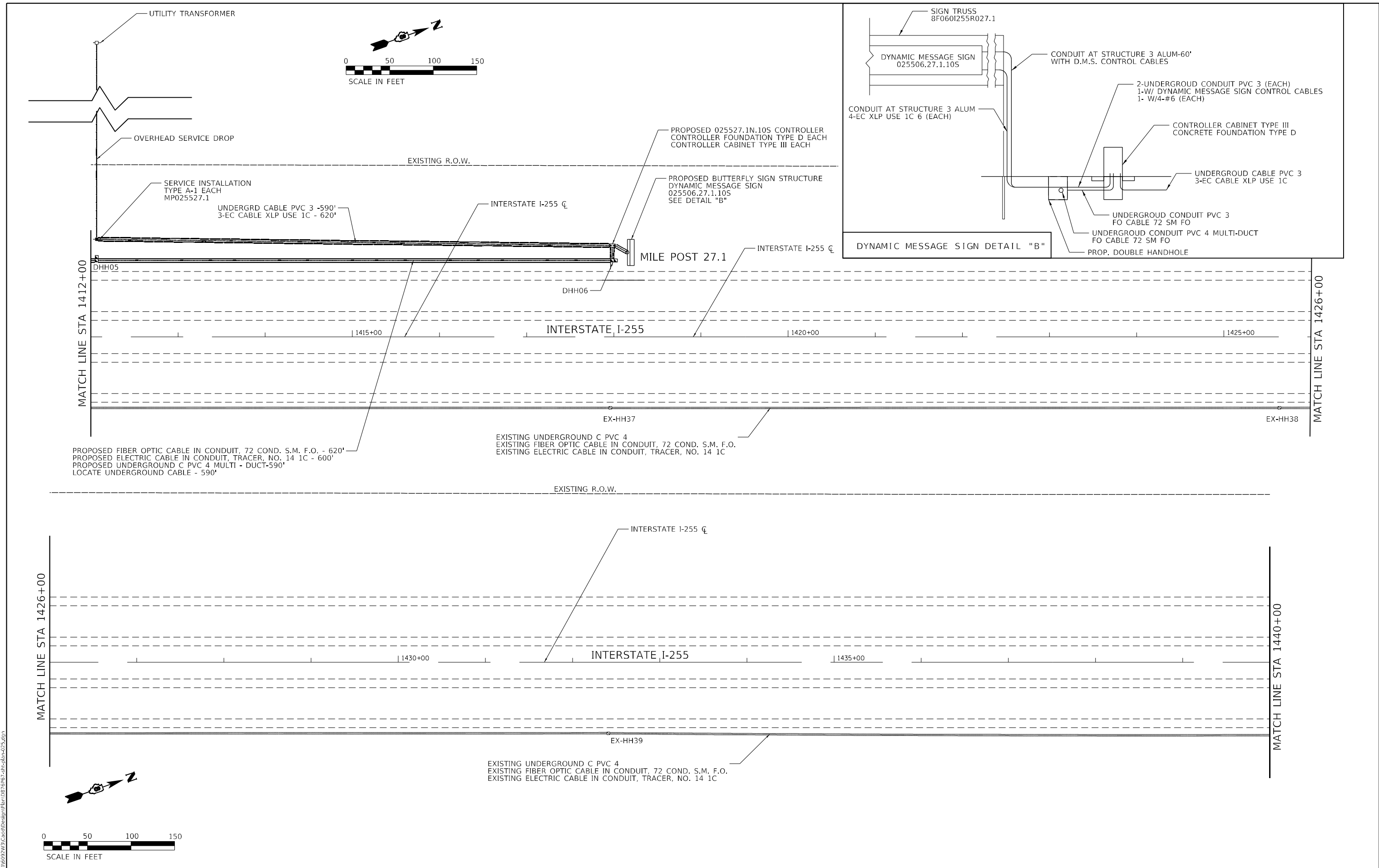
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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS PLAN
NORTH OF I-55/70 TO NORTH OF HORSESHOE LAKE ROAD

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-85G-1, 60-75G-1	MADISON	53	29
CONTRACT NO. 76P67				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.



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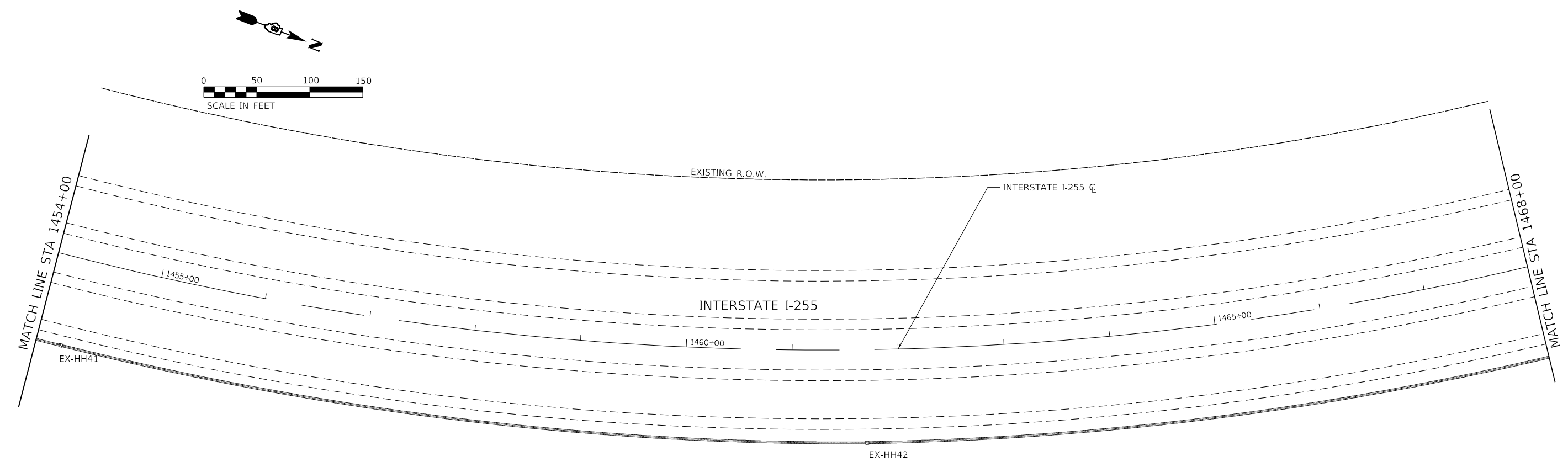
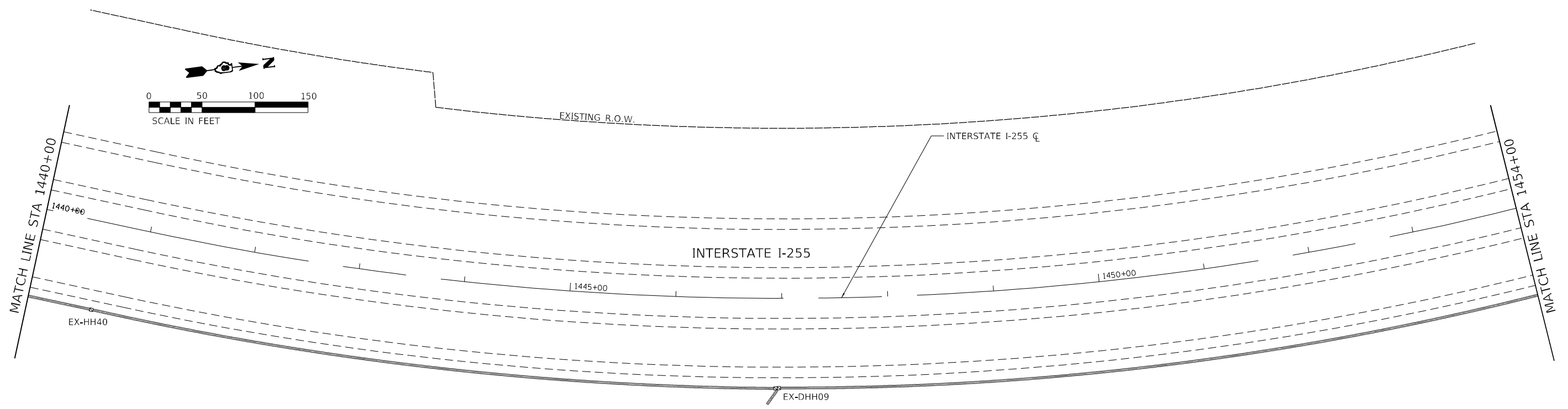
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 DESIGN FIRM REG. 14-000217
 745 McClintock Drive
 Suite 210
 Burr Ridge, IL 60527
 Ph: 773-881-4788
 Fax: 773-239-3728

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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS PLAN
NORTH OF I-55/70 TO NORTH OF HORSESHOE LAKE ROAD
 SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-85G-1, 60-75G-1	MADISON	53	30
CONTRACT NO. 76P67				
ILLINOIS FED. AID PROJECT				



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ABNA
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 Fax: 773-239-3728

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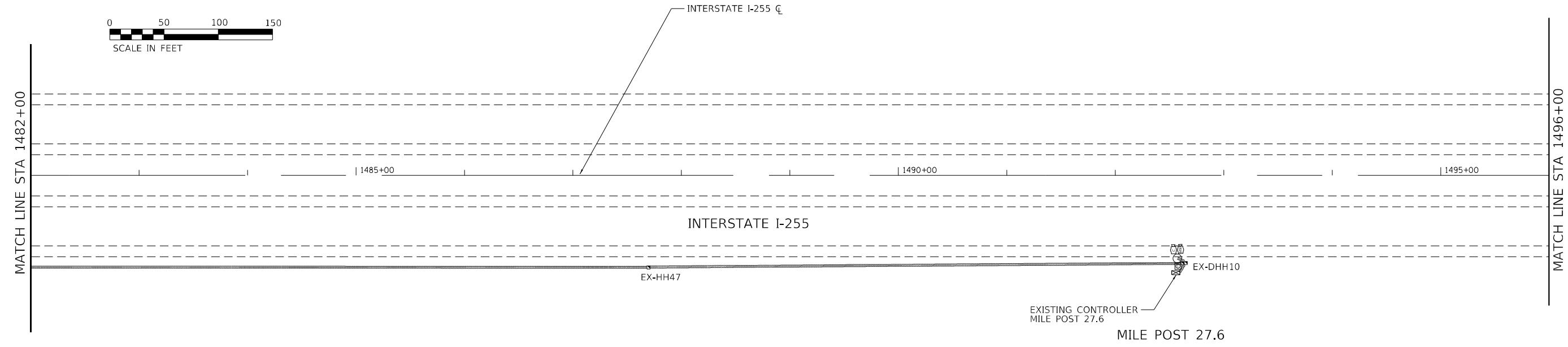
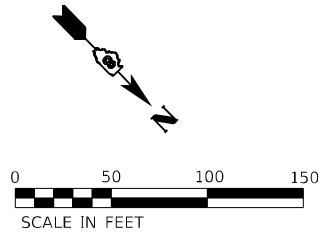
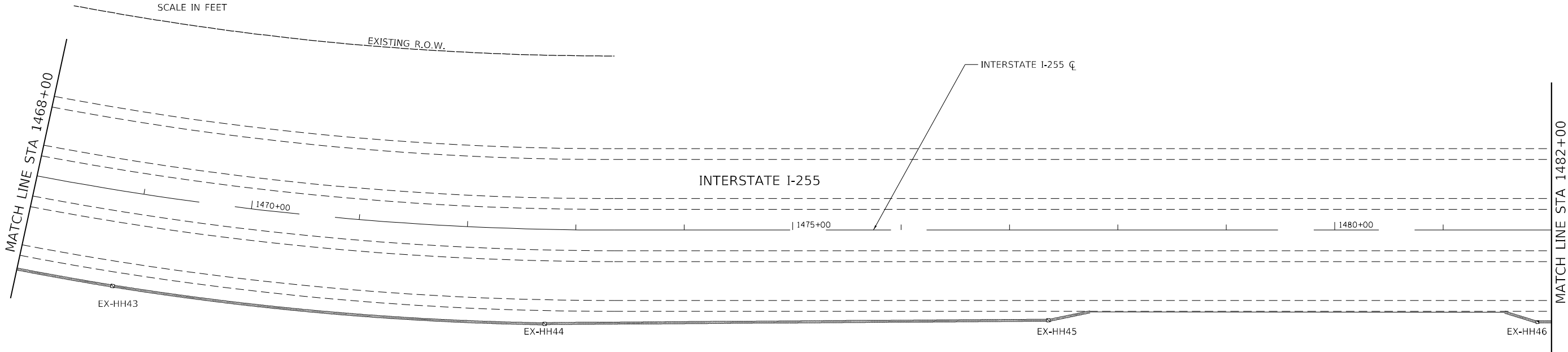
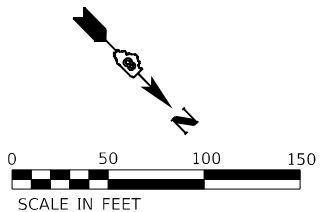
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS PLAN
NORTH OF I-55/70 TO NORTH OF HORSESHOE LAKE ROAD

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-85G-1, 60-75G-1	MADISON	53	31
CONTRACT NO. 76P67				
ILLINOIS FED. AID PROJECT				



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 Ph: 773-881-4788
 Fax: 773-239-3728

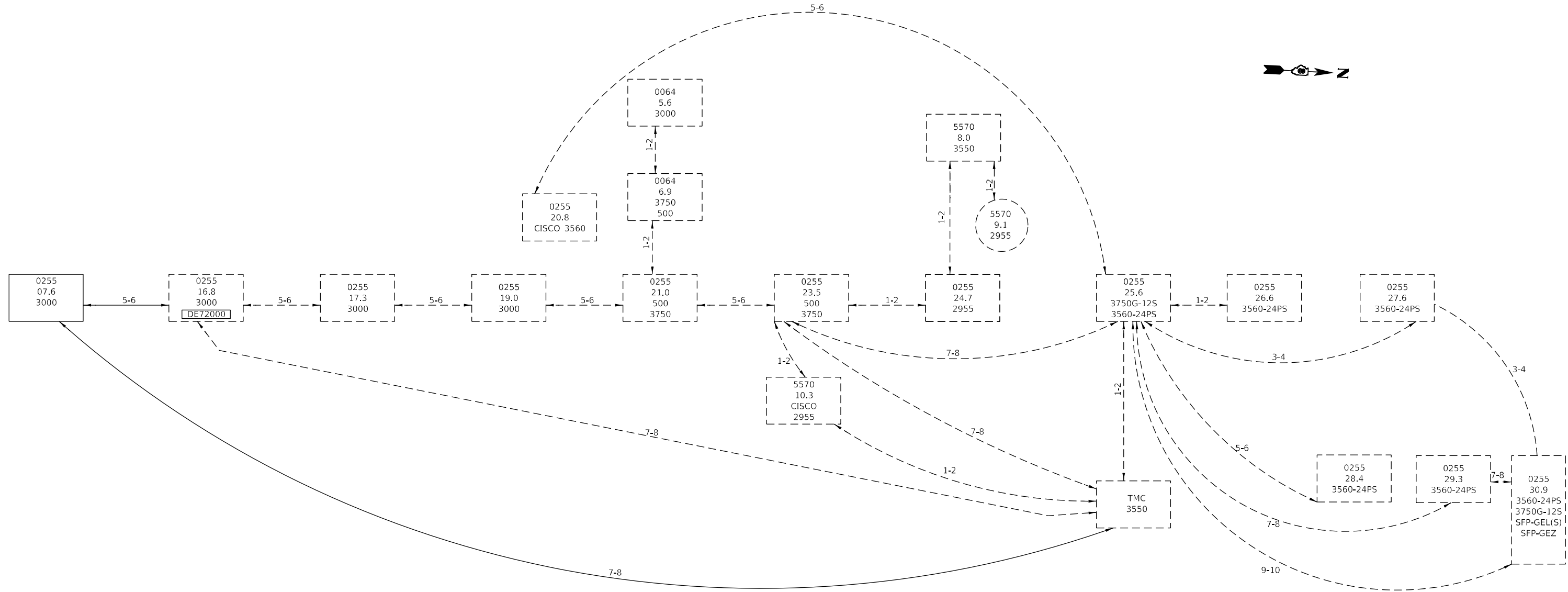
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PLOT DATE = 4/19/2023	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS PLAN			
NORTH OF I-55/70 TO NORTH OF HORSESHOE LAKE ROAD			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-8SG-1, 60-75G-1	MADISON	53	32
CONTRACT NO. 76P67				
ILLINOIS FED. AID PROJECT				

FIBER NETWORK DETAIL



- - - -> ODD TO THE NORTH
 - - - -< EVEN TO THE SOUTH
 - - - -> ODD TO THE EAST
 - - - -< EVEN TO THE WEST

SMF#-SMF# → [1. INTERSTATE
 2. MILE POST
 3. # LAYER SWITCH
 4. # LAYER SWITCH (IF APPLICABLE)] → SMF#-SMF#
 MODEM

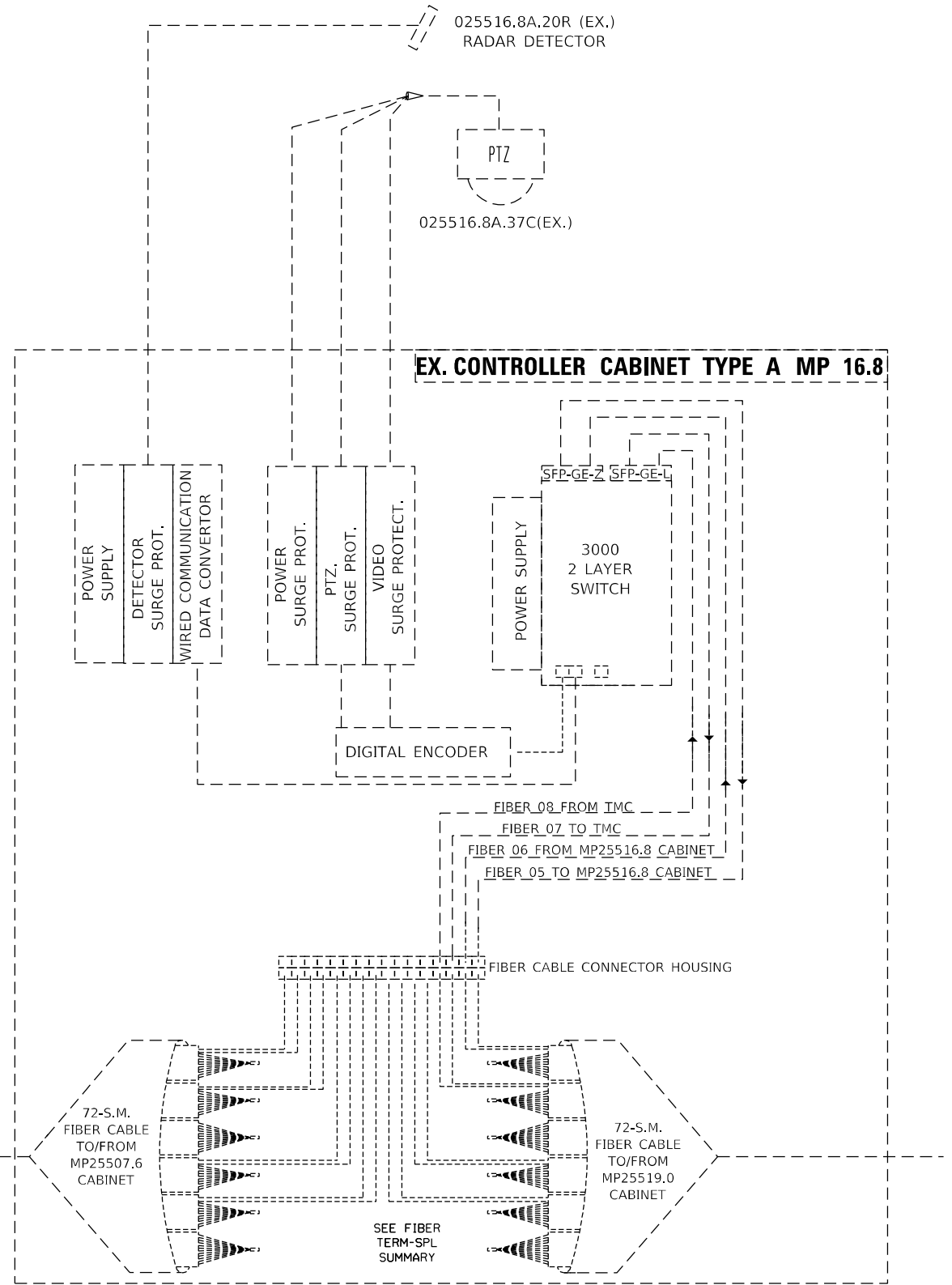
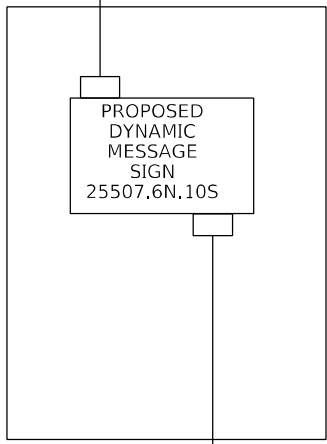
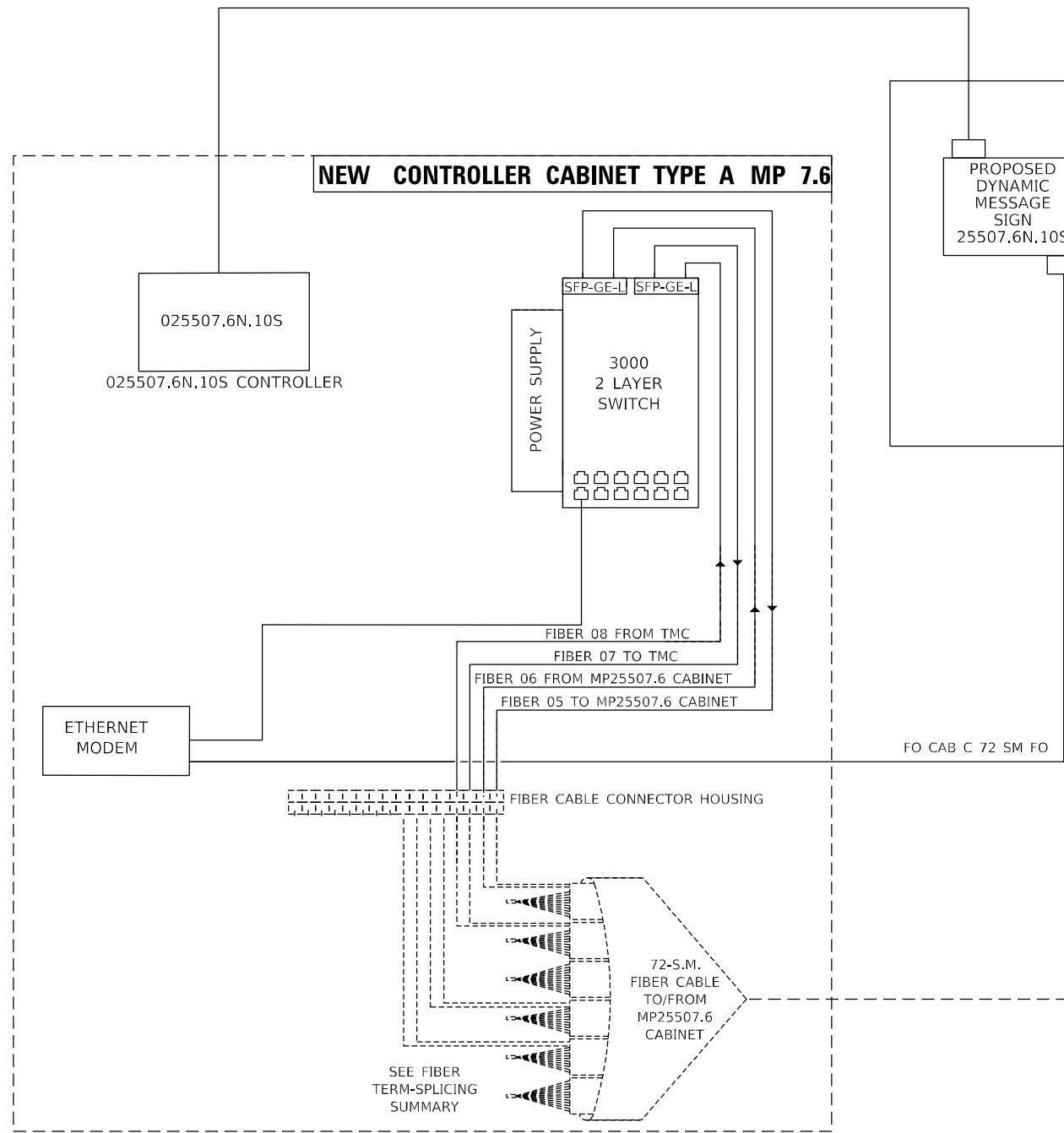
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PLOT DATE = 4/19/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COMMUNICATION SYSTEM COVER SHEET NORTH OF COLUMBIA TO ILLINOIS 15			
SCALE:	SHEET	OF	SHEETS
	STA.		TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-85G-1, 60-75G-1	ST. CLAIR	50	33
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76P67	



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 DATE: 4/19/2023

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PLOT SCALE = 2,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 4/19/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**COMMUNICATION SHEET
PROP. MP025507.6 CABINET TO EX. MP025516.8 CABINET
NORTH OF COLUMBIA TO ILLINOIS 15**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-85G-1, 60-75G-1	ST. CLAIR	50	34
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76P67	

FIBER TERM-SPL SUMMARY

LOCATION (FIBERS ON NORTH SIDE)						
FIBER	25507.6		25516.8		25517.3	
1-2		B		B		B
3-4		B		B		B
5-6	T		T		T	
7-8	T		T		T	
9-10		B		B		B
11-12		B		B		B
13-14		B		B		B
15-16		B		B		B
17-18	T		T		T	
19-20	T		T		T	
21-22		B		B		B
23-24		B		B		B
25-26		UC		UC		UC
27-28		UC		UC		UC
29-30		UC		UC		UC
31-32		UC		UC		UC
33-34		UC		UC		UC
35-36		UC		UC		UC
37-38		UC		UC		UC
39-42		UC		UC		UC
43-50		UC		UC		UC
51-72		UC		UC		UC
TOTAL	8	0	8	0	8	0

NOTE:

- T TERMINATE
- S FUSION SPLICE FIBER
- E EXISTING TERMINATED FIBER
- B BARE (UNUSED)
- XS BREAK EXISTING SPLICE TO NEW FIBER
- ES EXISTING SPLICED FIBER TO REMAIN
- UC UN CUT

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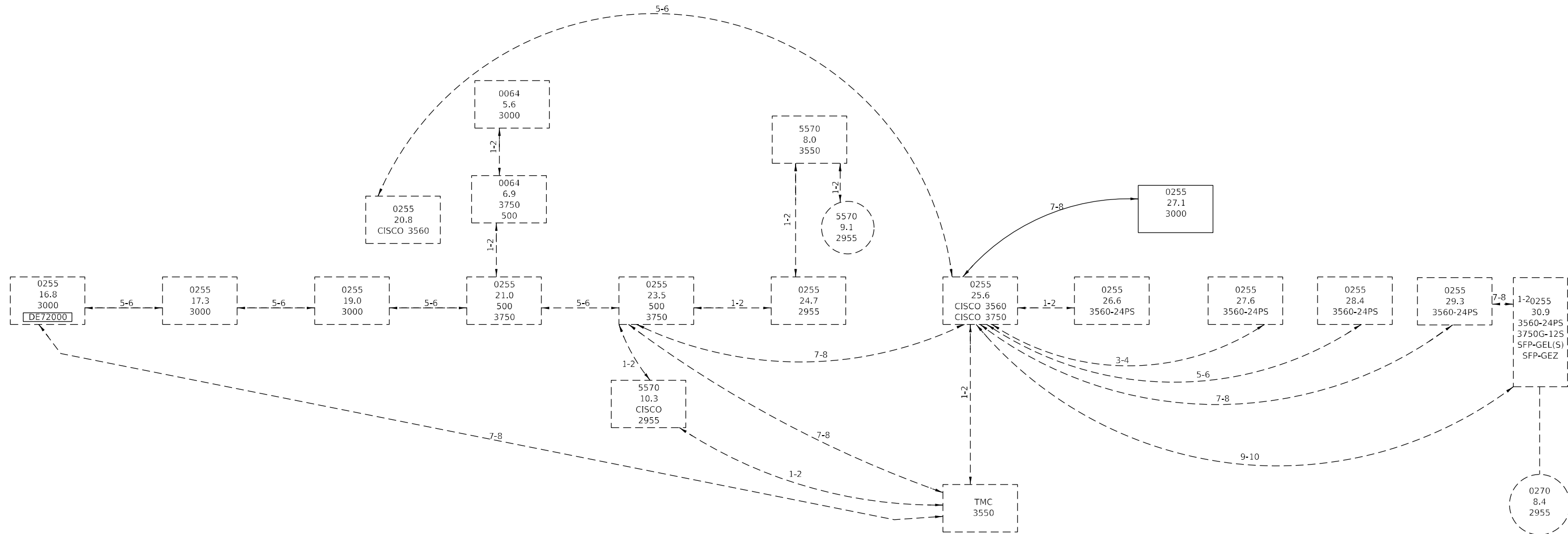
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TERMINATION-SPLICES TOTALS
NORTH OF COLUMBIA TO ILLINOIS 15**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-85G-1, 60-75G-1	ST. CLAIR	50	35
			CONTRACT NO. 76P67	
		ILLINOIS	FED. AID PROJECT	

FIBER NETWORK DETAIL



- > ODD TO THE NORTH
- ←--- EVEN TO THE SOUTH
- > ODD TO THE EAST
- ←--- EVEN TO THE WEST

- | | |
|----|--------------------------------|
| 1. | INTERSTATE |
| 2. | MILE POST |
| 3. | # LAYER SWITCH |
| 4. | # LAYER SWITCH (IF APPLICABLE) |
- MODEM

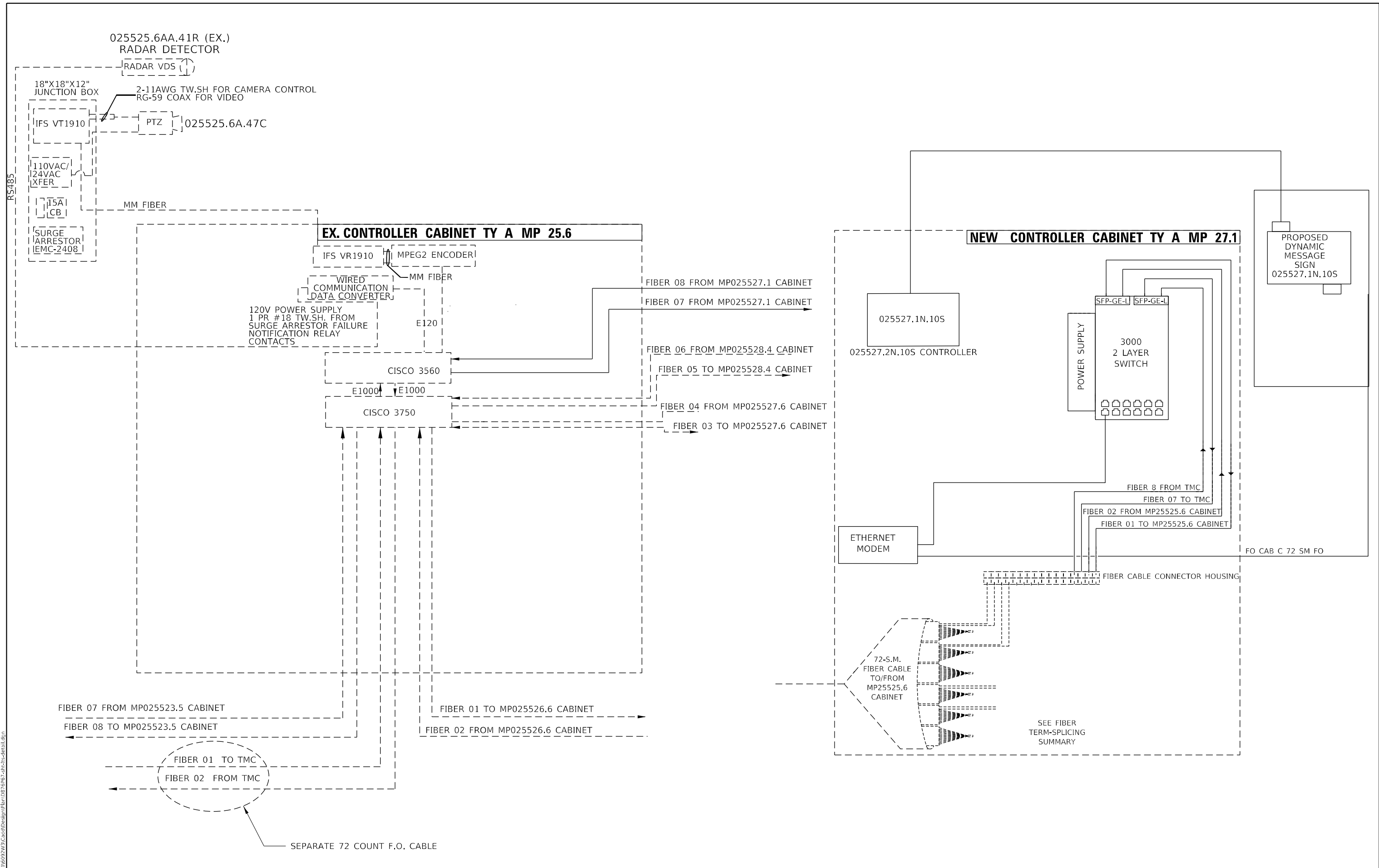
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	DRAWN -	REVISED -
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PLOT DATE = 4/19/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

COMMUNICATION SYSTEM COVER SHEET			
NORTH OF I-55/70 TO NORTH OF HORSESHOE LAKE ROAD			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-85G-1, 60-75G-1	MADISON	50	36
			CONTRACT NO. 76P67	
		ILLINOIS FED. AID PROJECT		



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PLOT DATE = 4/19/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COMMUNICATION SHEET
PROP. MP025527.1 CABINET TO EX. MP025525.6 CABINET
NORTH OF I-55/70 TO NORTH OF HORSESHOE LAKE ROAD

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-85G-1, 60-75G-1	MADISON	50	37
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76P67	

SCALE: SHEET OF SHEETS STA. TO STA.

FIBER TERM-SPL SUMMARY

LOCATION (FIBERS ON NORTH SIDE)						
FIBER	25525.6		25527.1		25527.6	
1-2	T			S		S
3-4	T			S	T	
5-6	T			S		S
7-8	T		T			S
9-10	T			S		S
11-12		S		S		S
13-14	T			S		S
15-16	T		T	S		S
17-18	T			S	T	
19-20	T			S		S
21-22	T			S		S
23-24		S		S		S
25-26		S		UC		UC
27-28		S		UC		UC
29-30		S		UC		UC
31-32		S		UC		UC
33-34		S		UC		UC
35-36		S		UC		UC
37-38		S		UC		UC
39-42		S		UC		UC
43-50		S		UC		UC
51-72		S		UC		UC
TOTAL	20	52	4	20	4	20

LOCATION (FIBERS ON SOUTH SIDE)						
FIBER	25523.5		25524.7		25525.6	
1-2	T			T		T
3-4	T			T		S
5-6		B		B		S
7-8	T			S		S
9-10	T			T		S
11-12		B		S		S
13-14	T			T		T
15-16	T			T		S
17-18				B		S
19-20	T			T		S
21-22	T			T		S
23-24		B		S		S
25-26		UC		UC		UC
27-28		UC		UC		UC
29-30		UC		UC		UC
31-32		UC		UC		UC
33-34		UC		UC		UC
35-36		UC		UC		UC
37-38		UC		UC		UC
39-42		UC		UC		UC
43-50		UC		UC		UC
51-72		UC		UC		UC
TOTAL	16	0	14	6	4	20

NOTE:

- T TERMINATE
- S FUSION SPLICE FIBER
- E EXISTING TERMINATED FIBER
- B BARE (UNUSED)
- XS BREAK EXISTING SPLICE TO NEW FIBER
- ES EXISTING SPLICED FIBER TO REMAIN
- UC UNCUT

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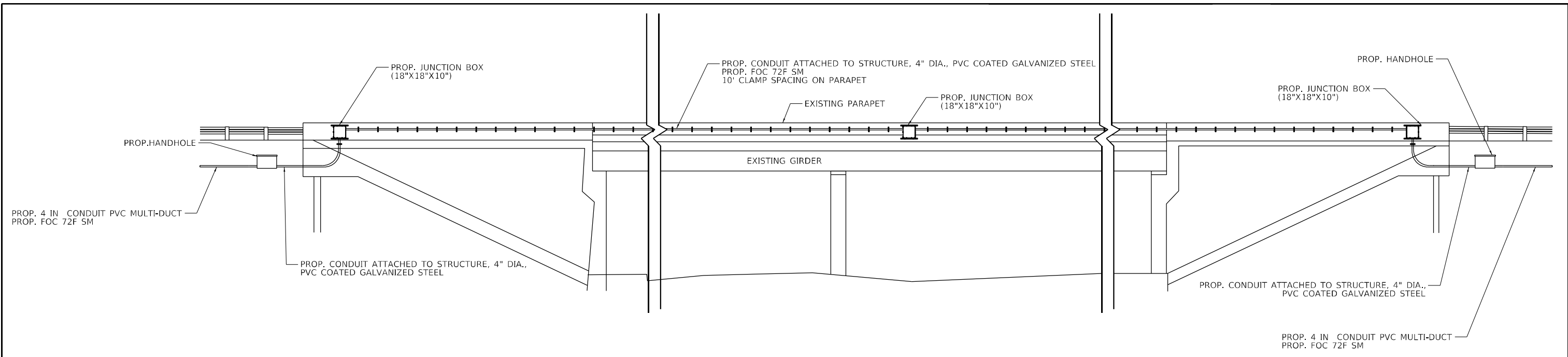
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PLOT DATE = 4/19/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TERMINATION-SPLICES TOTALS
NORTH OF I-55/70 TO NORTH OF HORSESHOE LAKE ROAD**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-85G-1, 60-75G-1	MADISON	50	38
			CONTRACT NO. 76P67	
		ILLINOIS	FED. AID PROJECT	



PROFILE VIEW- LOOKING WEST

NOTE:

1. THIS DETAIL REPRESENTS A TYPICAL CONDUIT ON STRUCTURE INSTALLATION AT THE FOLLOWING SITES: BRIDGE SN - 082-0221 OVER P. DUPONT & BLUE WATERS SEE SHEET 3 FOR SUMMARY OF QUANTITIES

MODEL: 2D
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ABNA
DESIGN FIRM REG. 164002117
 745 McClintock Drive
 Suite 210
 Burr Ridge, IL 60527
 Ph: 773-881-4788
 Fax: 773-239-3728

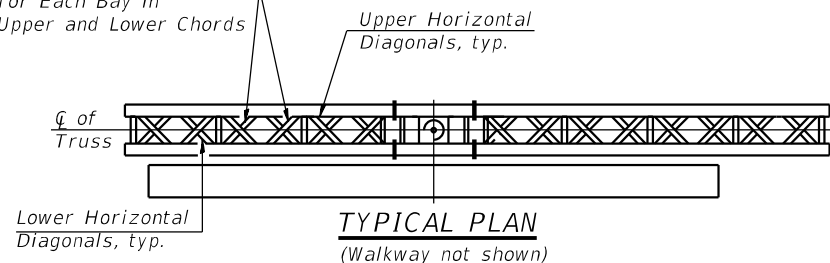
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PLOT DATE = 4/19/2023	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

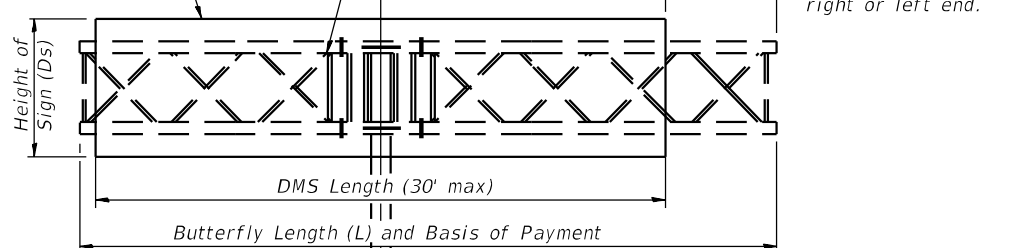
ITS PLAN TYPICAL UNDER BRIDGE CONDUIT CONNECTION DETAIL NORTH OF COLUMBIA TO NORTH OF I-55/70			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-85G-1, 60-75G-1	ST. CLAIR	50	39
CONTRACT NO. 76P67				
ILLINOIS FED. AID PROJECT				

Alternate Direction of Horizontal Diagonals for Each Bay in Planes of Upper and Lower Chords



Alternate Vertical Diagonal Bracing for Each Bay in Planes of Front and Back Chords Sign Cabinet



Walkway, railing and lights (if required) omitted for clarity
Lowest part of structure above Elevation A.
17'-3" Minimum Clearance

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

TYPICAL ELEVATION

Looking in Direction of Traffic

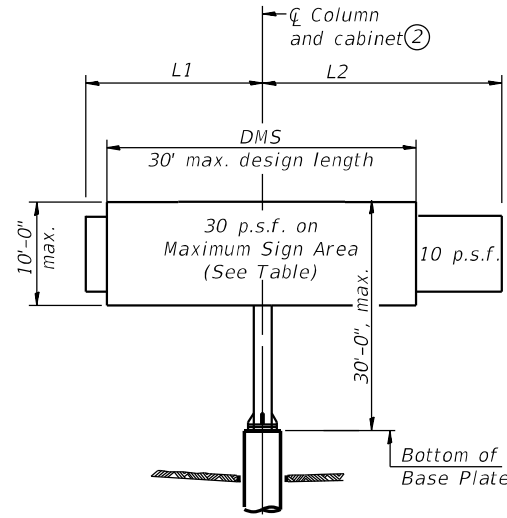
** Elevation A2 and dimension D2 not used when butterfly structure is mounted on right side of the shoulder.

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. A1	Elev. A2	Dim. D1	Dim. D2	Ds	Total Sign Area	Access door and walkway location (Right or Left end)
① 8F0821255R007.6	-	38'-0"	417.71	-	32'-0"	-	-	300	Left
② 8F0601255R027.1	-	38'-0"	421.72	-	32'-0"	-	-	300	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.
fy = 60,000 p.s.i. (reinforcement)

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

FOUNDATIONS: The contract unit price for Concrete Foundations shall include all necessary excavation (except rock), backfilling with excavated material, disposal of unsuitable or surplus material, formwork, reinforcement bars, conduit, anchor bolts, nuts, washers, ground rods complete in place, and furnishing & placing of concrete.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE BUTTERFLY TYPE III-F-A	Foot	76
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	Foot	15
CONCRETE FOUNDATIONS	Cu. Yds.	50.9
FURNISHING METAL SHELL PILES 12" X 0.250"	Foot	352
TEST PILE METAL SHELLS	Each	1
FURNISHING STEEL PILES HP12X53	Foot	153
DRIVING PILES	Foot	505

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OSF-A-1-DMS 2-17-2017

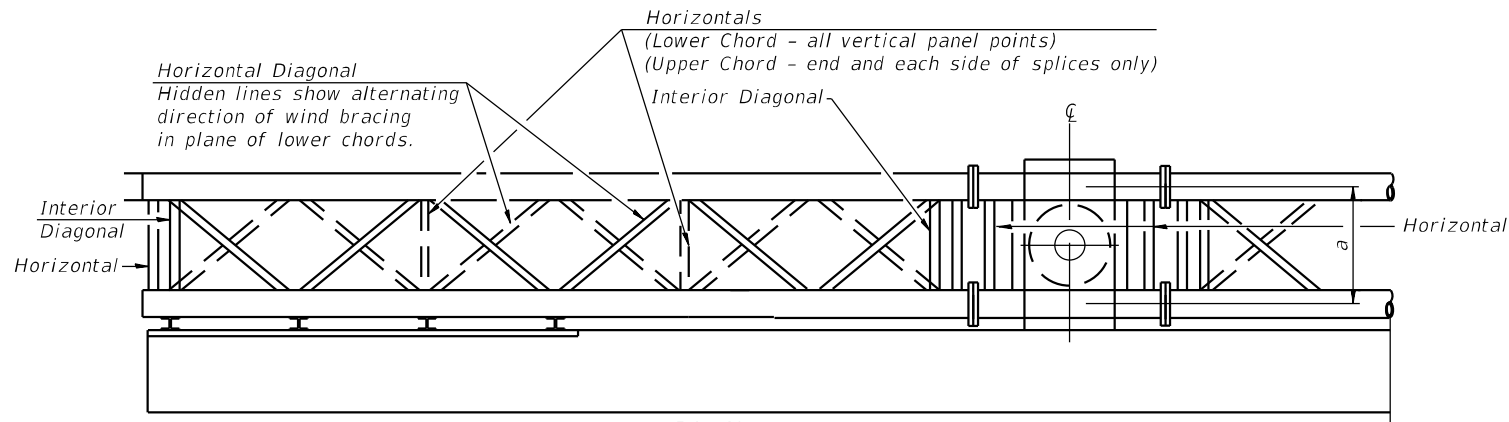
ABNA
DESIGN FIRM REG. 184.002117
745 McClintock Drive
Suite 210
Burr Ridge, IL 60527
Ph. 773-881-4788
Fax: 773-239-3720

USER NAME =	DESIGNED - FH	REVISED -
	CHECKED - SEA	REVISED -
PLOT SCALE =	DRAWN - MBJ	REVISED -
PLOT DATE =	CHECKED - FH/SEA	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

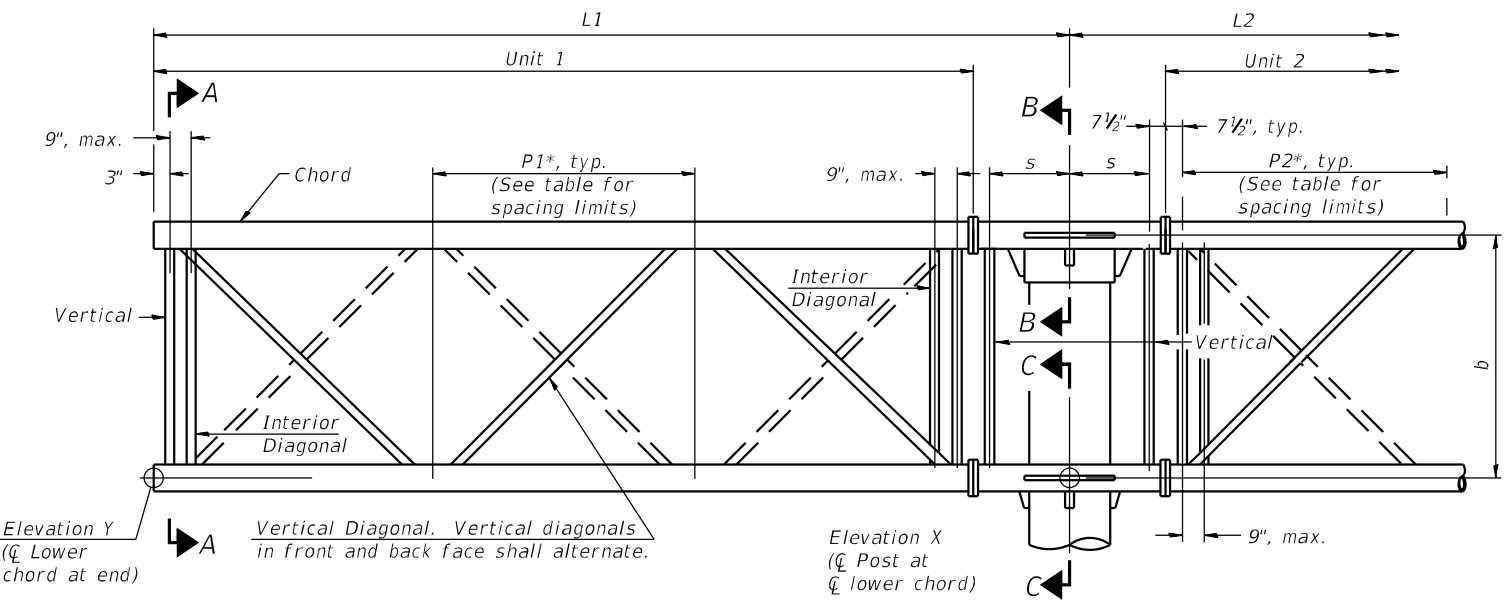
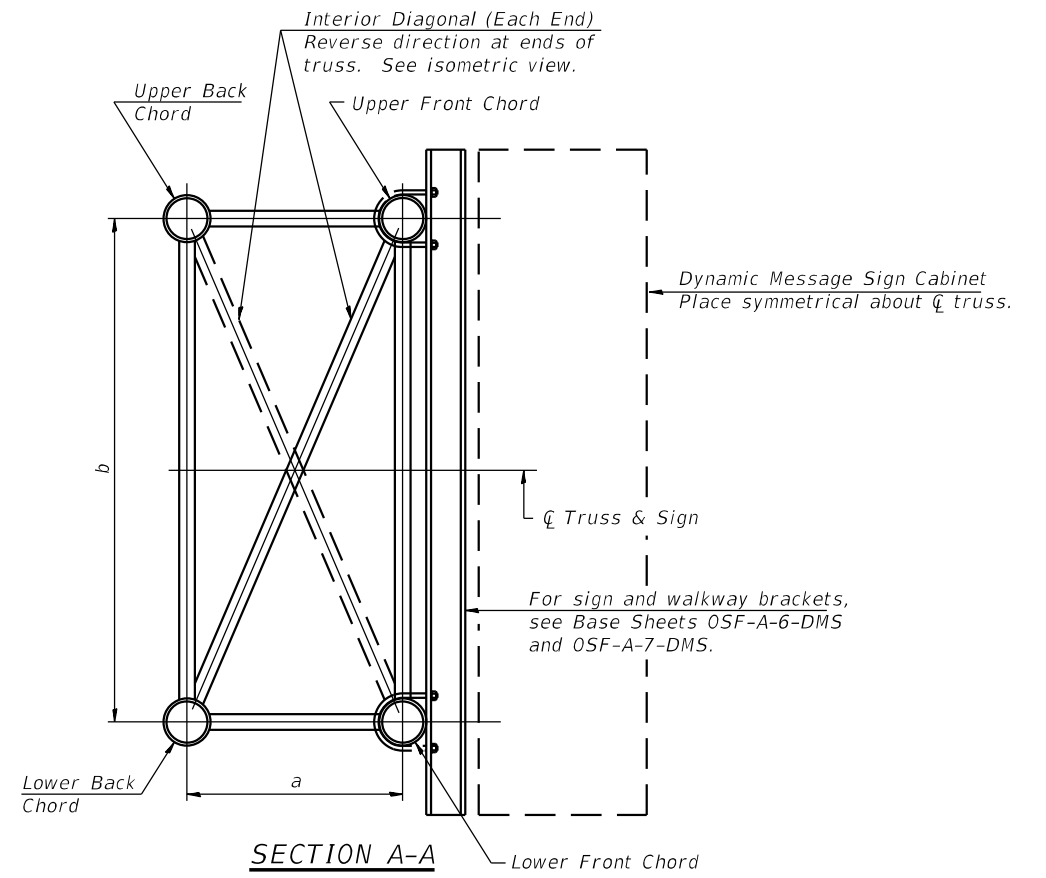
**BUTTERFLY SIGN STRUCTURES - ALTERNATE PLAN & ELEVATION
FOR DMS - ALUMINUM TRUSS & STEEL POST**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-8SG-1/80-79G-1	VARIOUS	53	40
CONTRACT NO. 76P67				
ILLINOIS FED. AID PROJECT				



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

PLAN
(Walkway not shown)



TYPICAL TRUSS UNIT

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

TRUSS UNIT TABLE

Truss Type	Dimension "a"	Dimension "b"	Dimension "s"	Limits for Panel Spacing (P)*	Up. & Low. Chord O.D. Wall		Verticals; Horizontals; Vertical Horizontals; and Interior Diagonals	
					7"	3/8"	3 1/2"	3/8"
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	L1	L2	Number of Panels Unit 1	Panel Length (P1)*	Number of Panels Unit 2	Panel Length (P2)*
① 8F0821255R007.6	-	III-F-A	22'-6"	15'-6"	4	4'-9 3/4"	3	4'-1"
② 8F0601255R027.1	-	III-F-A	22'-6"	15'-6"	4	4'-9 3/4"	3	4'-1"

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OSF-A-2-DMS 2-17-2017



745 McClintock Drive
Suite 210
Burr Ridge, IL 60527
Ph: 773-881-4788
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USER NAME =	DESIGNED - FH	REVISED -
	CHECKED - SEA	REVISED -
PLOT SCALE =	DRAWN - MBJ	REVISED -
PLOT DATE =	CHECKED - FH/SEA	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

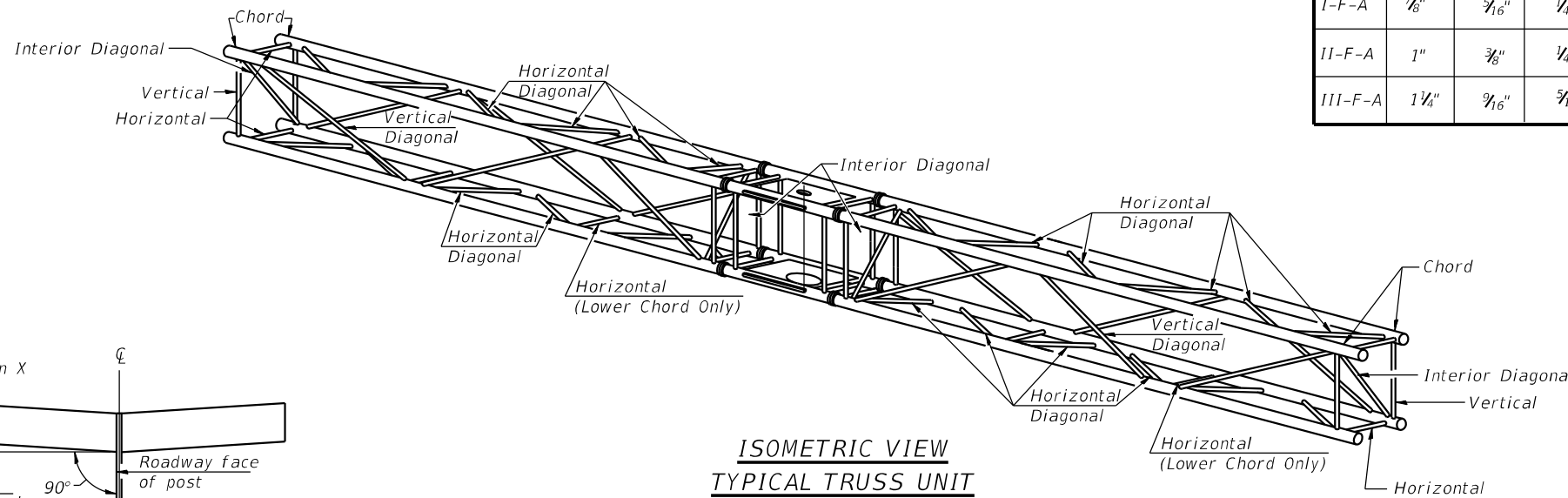
**BUTTERFLY SIGN STRUCTURES - ALTERNATE TRUSS DETAILS FOR DMS
ALUMINUM TRUSS & STEEL POST**

SHEET 2 OF 14 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-8SG-1/80-7SG-1	VARIOUS	53	41
CONTRACT NO. 76P67				
ILLINOIS FED. AID PROJECT				

SHOP CAMBER TABLE

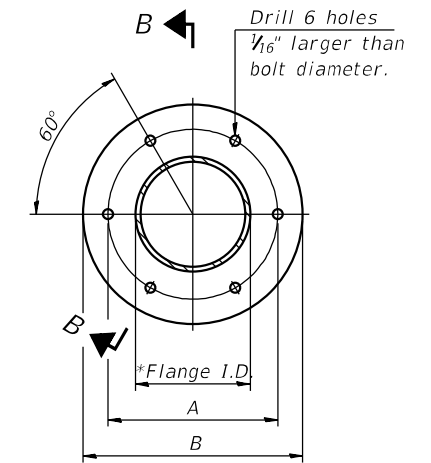
Unit Length L1 or L2	Shop Camber at End
15'	1 1/2"
16'-17'	1 3/4"
18'-20'	2"
21'-22'	2 1/4"
23'-25'	2 1/2"
26'-27'	2 3/4"
28'-30'	3"
31'-32'	3 1/4"
33'-35'	3 1/2"



**ISOMETRIC VIEW
TYPICAL TRUSS UNIT**

ASTM B221 Alloy 6061 Temper T6

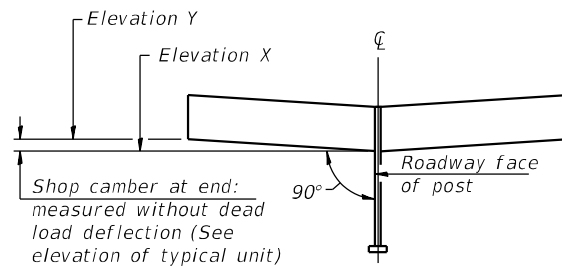
Truss Type	Bolts Dia.	Weld Sizes		A	B
		W	W1		
I-F-A	7/8"	3/16"	1/4"	8 3/4"	11 3/4"
II-F-A	1"	3/8"	1/4"	11"	14 1/2"
III-F-A	1 1/4"	3/16"	3/16"	11 1/2"	15"



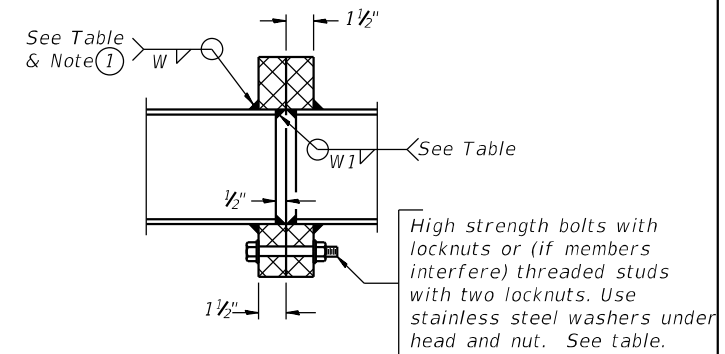
SPlicing FLANGE

ASTM b221, Alloy 6061-T6
or ASTM B209, Alloy 6061-T651

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

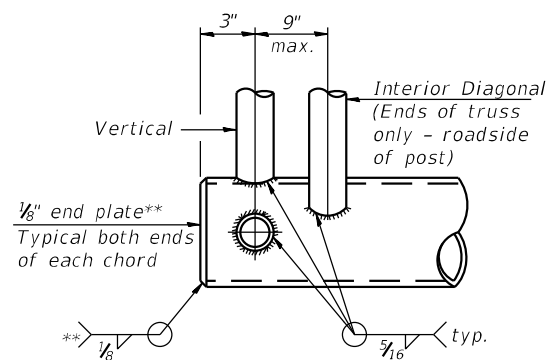


CAMBER DIAGRAM
(For Fabrication Only)



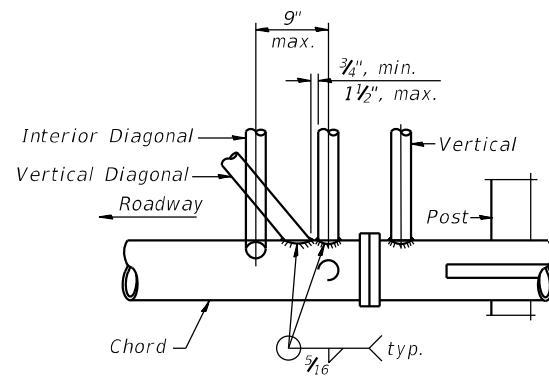
SECTION B-B

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.

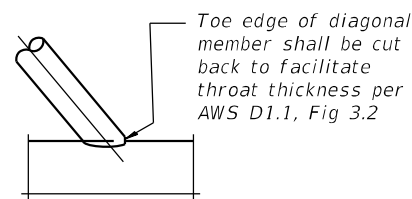


BUTTERFLY END JOINT DETAIL

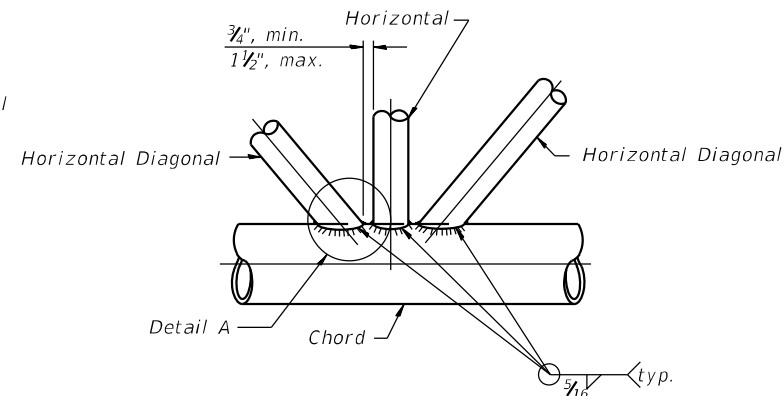
** Contractor may alternatively use standard aluminum drive-fit cap to close ends.
1/2" Ø Drain hole in end plate / drive-fit cap.



POST END JOINT DETAIL



DETAIL A



TRUSS INTERIOR JOINT DETAIL

OSF-A-2A 2-17-2017



745 McClintock Drive
Suite 210
Burr Ridge, IL 60527
Ph. 773-881-4788
Fax: 773-239-3720

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PLOT DATE =	CHECKED - FH/SEA	REVISED -

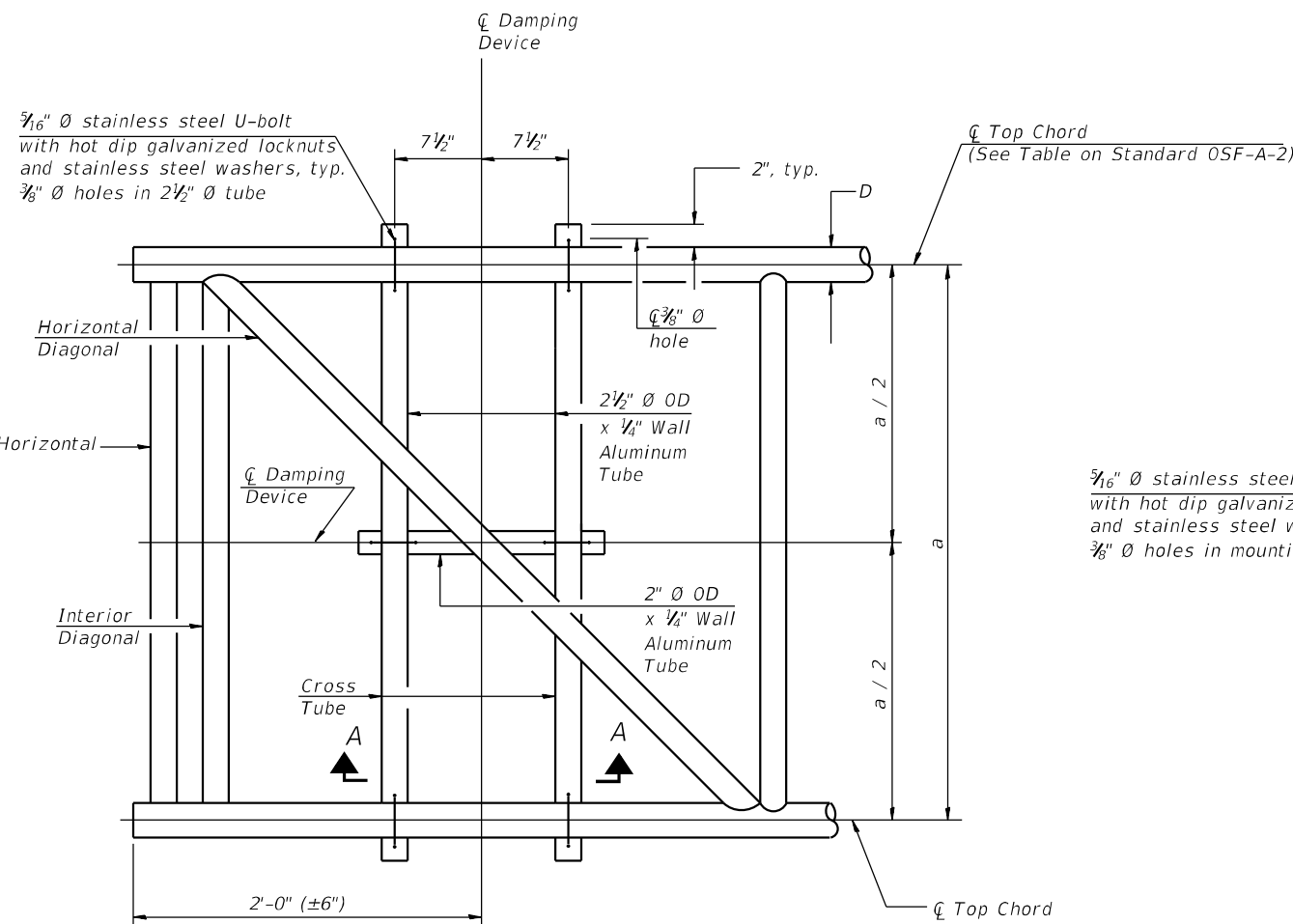
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTTERFLY SIGN STRUCTURES - TRUSS DETAILS
ALUMINUM TRUSS & STEEL POST

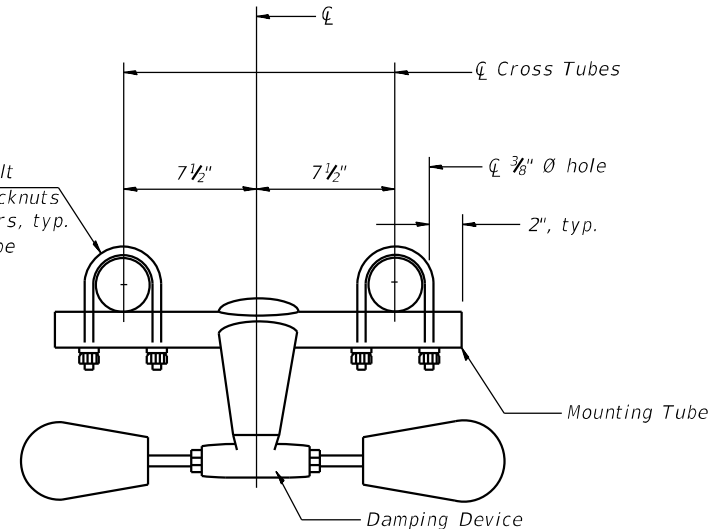
SHEET 3 OF 14 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-8SG-1 / 80-7SG-1	VARIOUS	53	42
CONTRACT NO. 76P67				

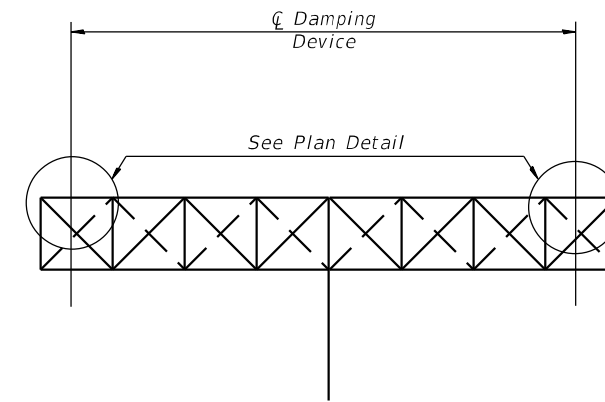
ILLINOIS FED. AID PROJECT



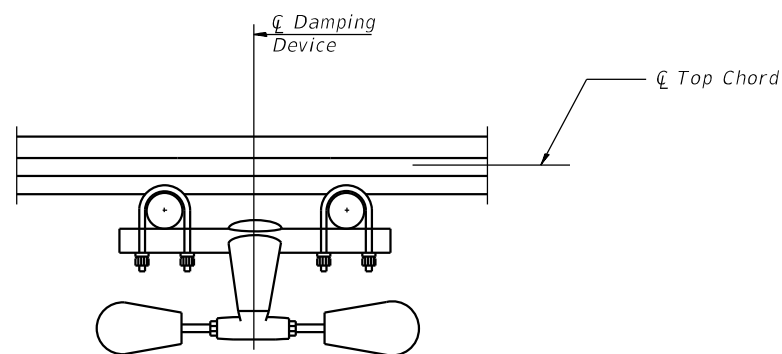
PLAN DETAIL



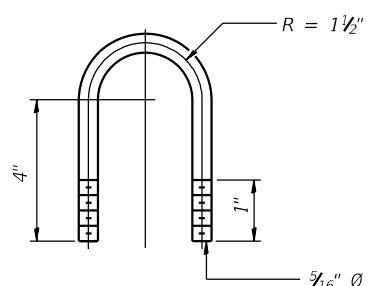
TRUSS DAMPING DEVICE CONNECTION DETAIL



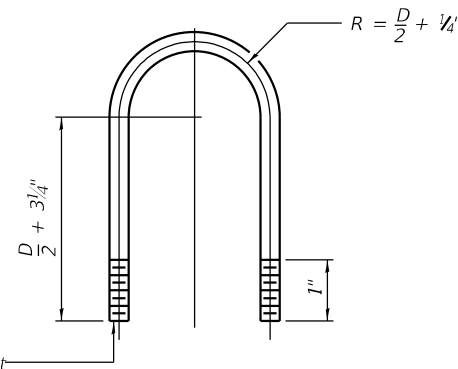
ELEVATION
Aluminum Butterfly Sign Structure



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

FILE NAME: I:\2021\6092W\3\Cadd\Design\21-6092_001_SHT_BUTTERFLY DMS.dgn

OSF-A-D

2-17-2017



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Suite 210
Burr Ridge, IL 60527
Ph. 773-881-4788
Fax: 773-239-3720

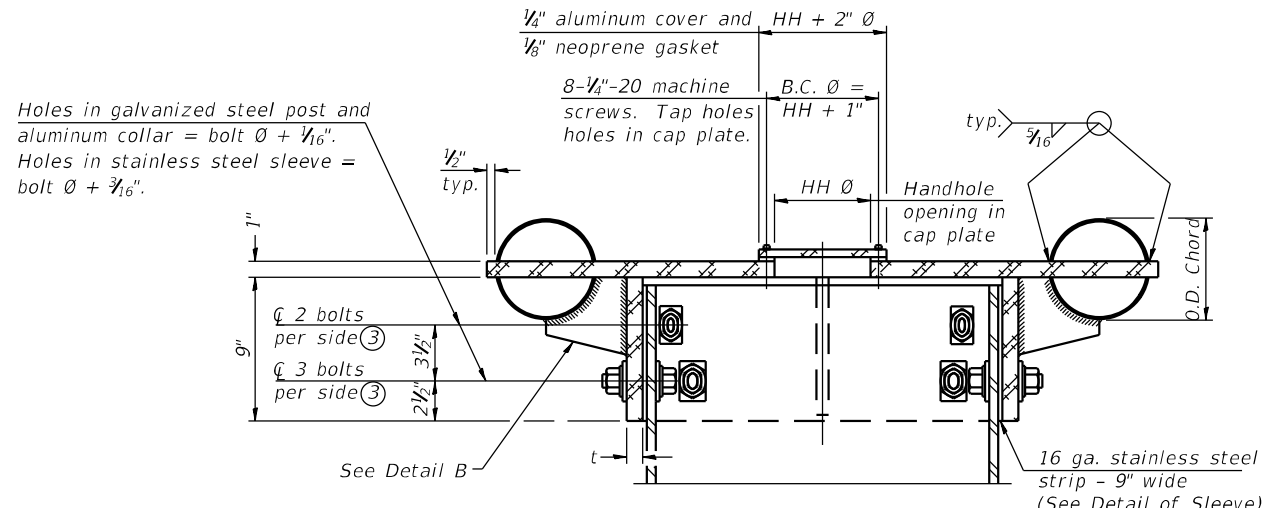
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTTERFLY SIGN STRUCTURE
DAMPING DEVICE**

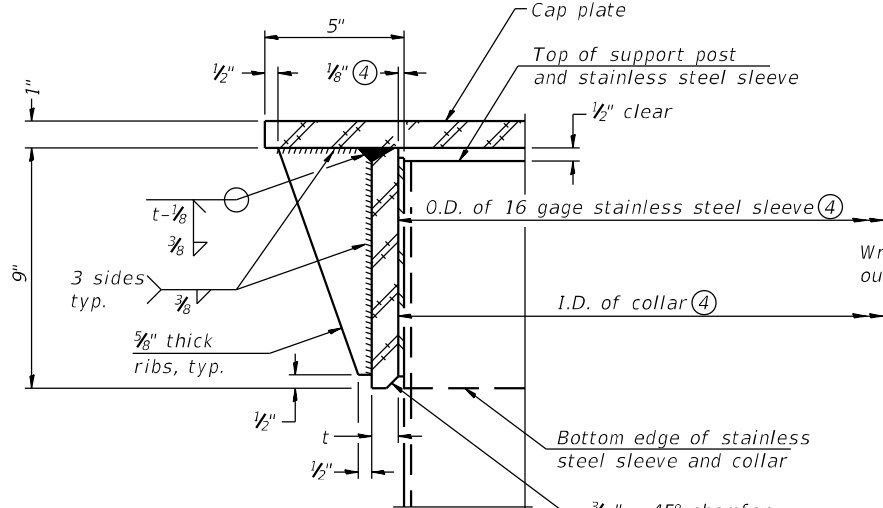
SHEET 4 OF 14 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 76P67				
ILLINOIS FED. AID PROJECT				

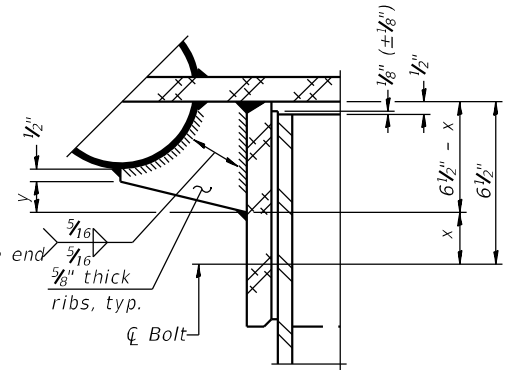


④ Collar I.D. shall be manufactured to correspond to O.D. of actual galvanized post and stainless steel sleeve plus 1/8" (±1/16"). Maximum gap between post and collar at any location equals 1/8" before tightening bolts.

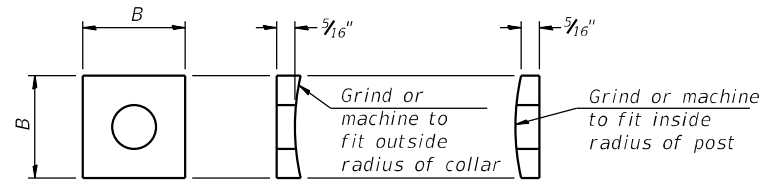
SECTION B-B
Bolts, washers (including contoured washers), and locknuts shall be stainless steel.



DETAIL A
(Two locations)
1/16" - 45° chamfer on inside of collar to facilitate field assembly

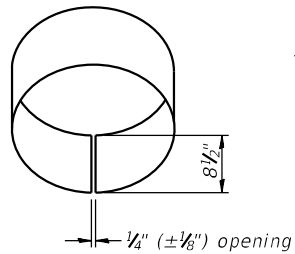


DETAIL B
Two locations
(For details not shown, see Detail C)



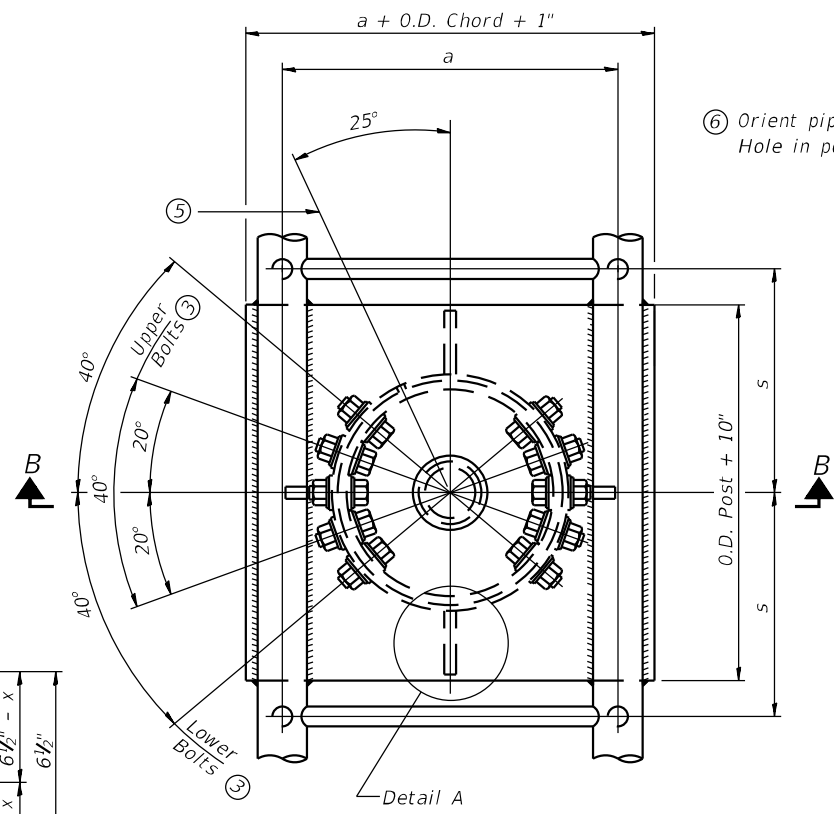
CONTOURED WASHERS

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"

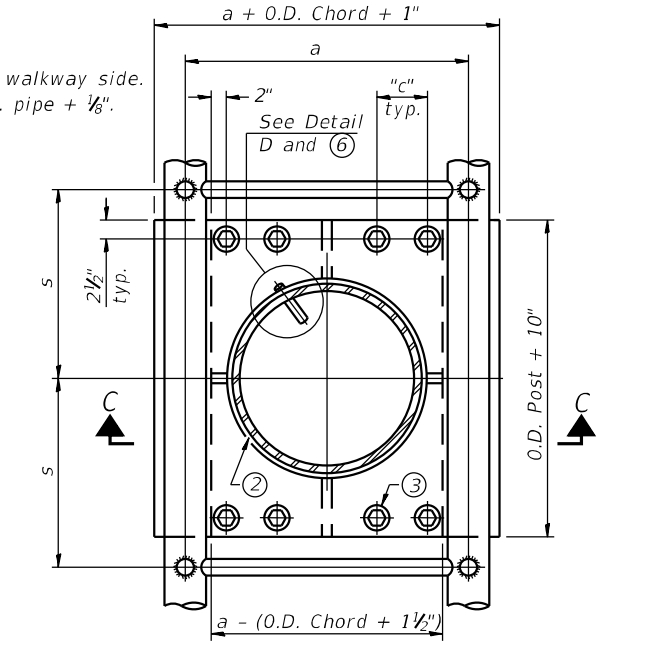


DETAIL OF STAINLESS STEEL SLEEVE

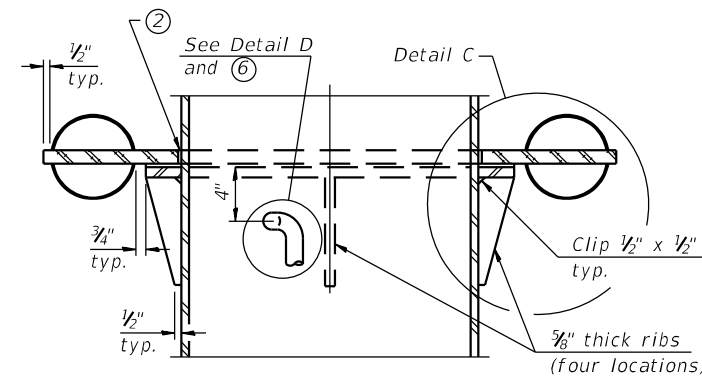
Weld to post after galvanizing. (Prepare post surface to insure tight, uniform fit and allow welding.) Welds to be 1 1/2" long at 6" cts. along top edge and at 1/4" opening.



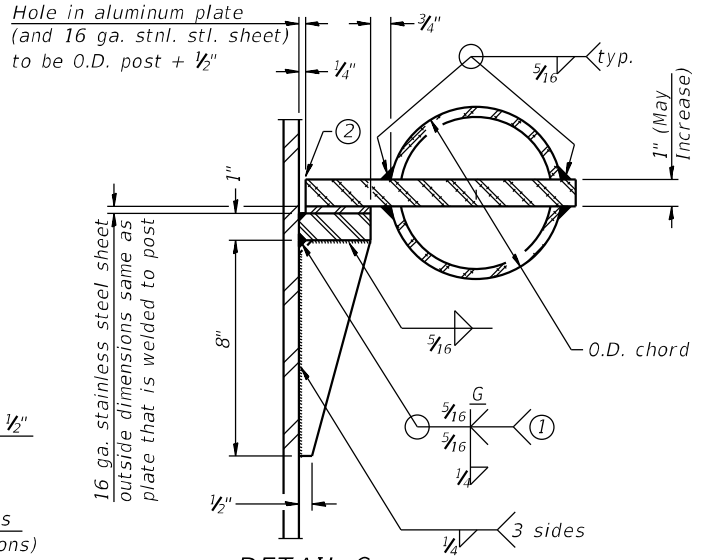
PLAN VIEW - TOP OF COLUMN
⑤ Optional full penetration weld in collar. (Two locations maximum... (180° apart)... X-ray or UT 100%)



SECTION THRU POST ABOVE LOWER CHORDS



SECTION C-C



DETAIL C

- ① Grind top if required to fully seat aluminum plate and stainless steel sheet.
- ② After tightening lower connection bolts, fill gap with non-hardening, silicone caulk suitable for exterior exposure and acceptable to the Engineer. Cost is included in Overhead Sign Structure 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" Ø (83#/'')	7/8"	3 1/4"	8"	5/8"	1 3/4"	2 1/4"
II-F-A	24" Ø (125#/'')	1"	3 1/2"	12"	7/8"	2"	1 1/4"
III-F-A	24" Ø (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.

OSF-A-3 2-17-2017



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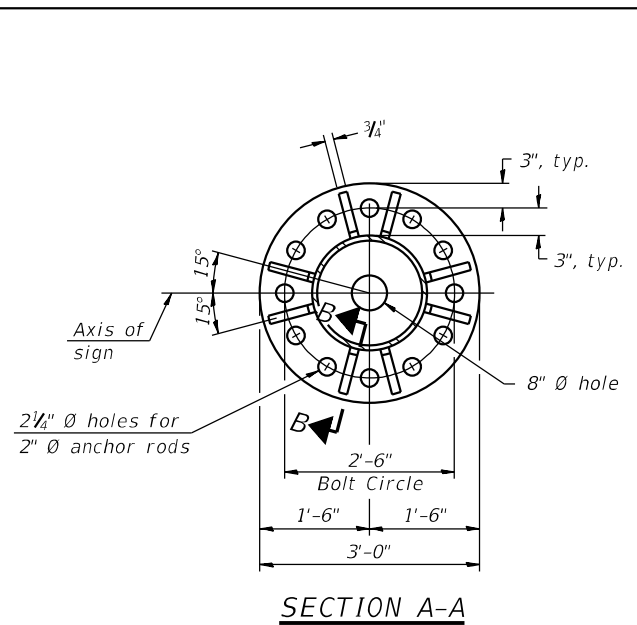
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PLOT SCALE =	CHECKED - SEA	REVISED -
PLOT DATE =	DRAWN - MBJ	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

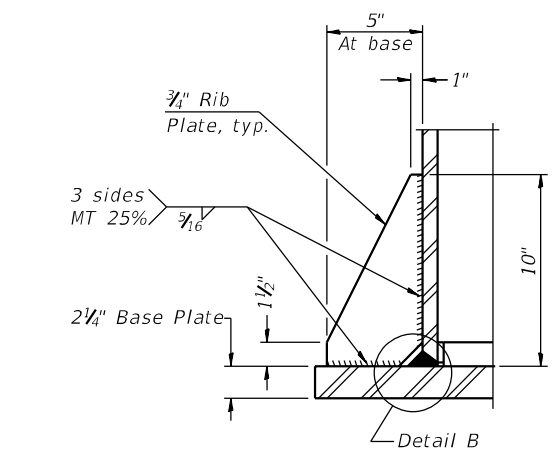
BUTTERFLY SIGN STRUCTURES - JUNCTURE DETAILS
ALUMINUM TRUSS & STEEL POST

SHEET 5 OF 14 SHEETS

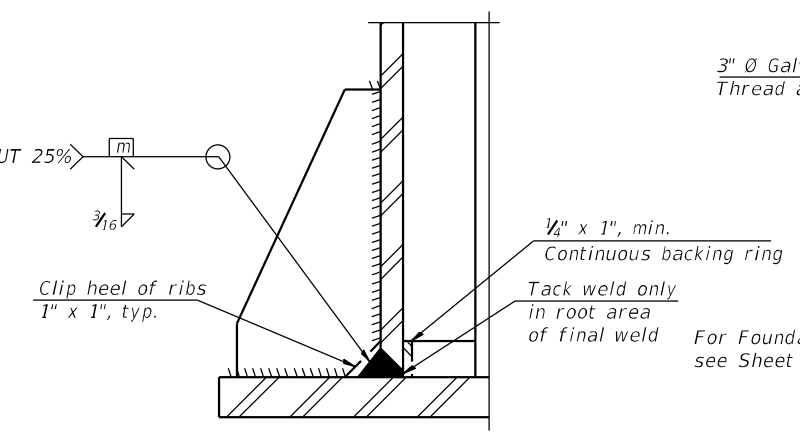
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-85G-1/80-75G-1	VARIOUS	53	44
CONTRACT NO. 76P67				
ILLINOIS FED. AID PROJECT				



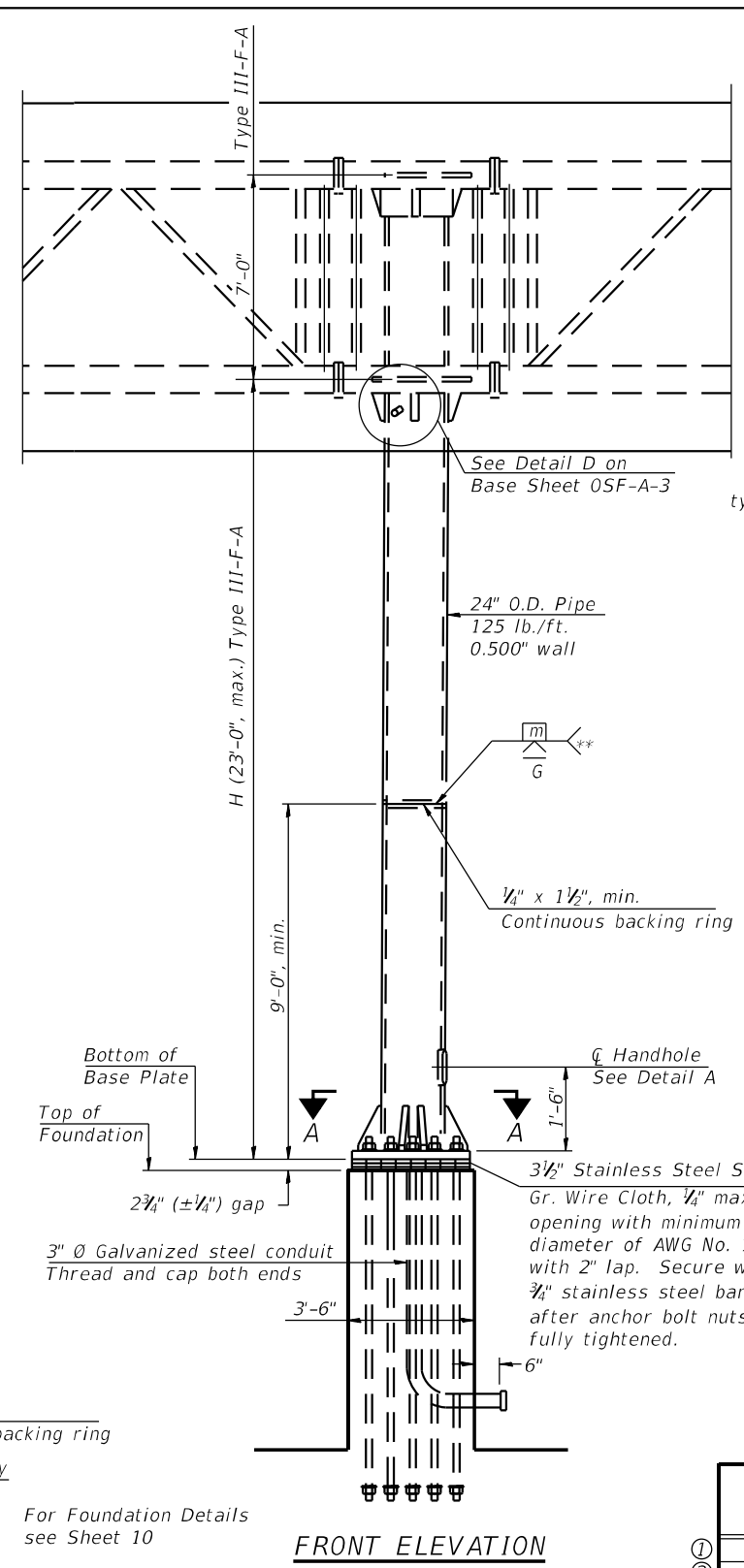
SECTION A-A



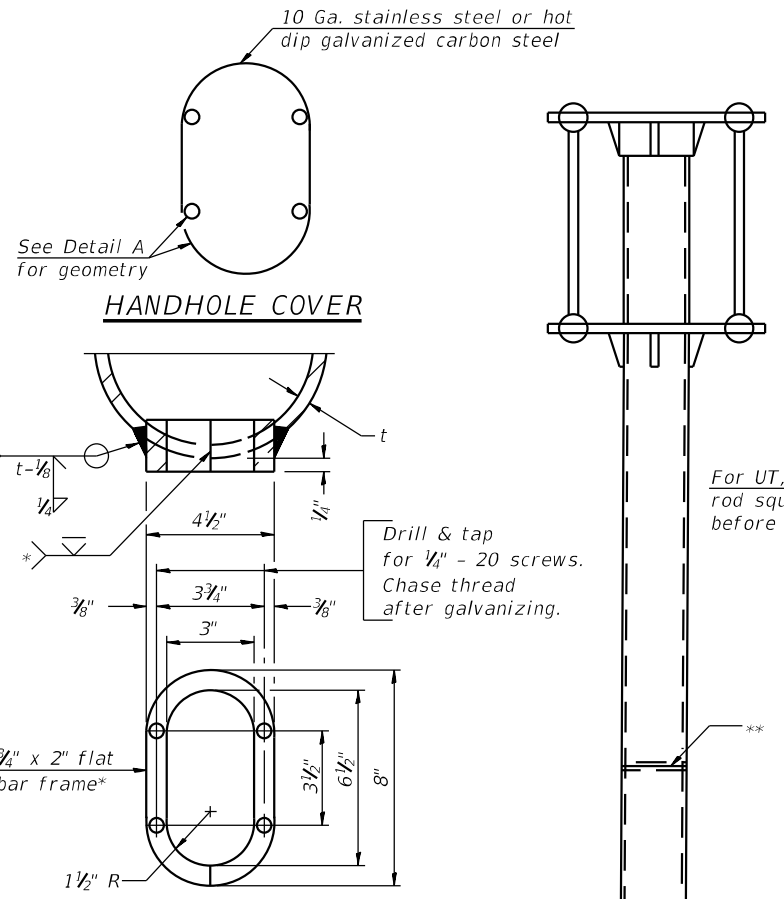
SECTION B-B



DETAIL B
(Typical rib)



FRONT ELEVATION

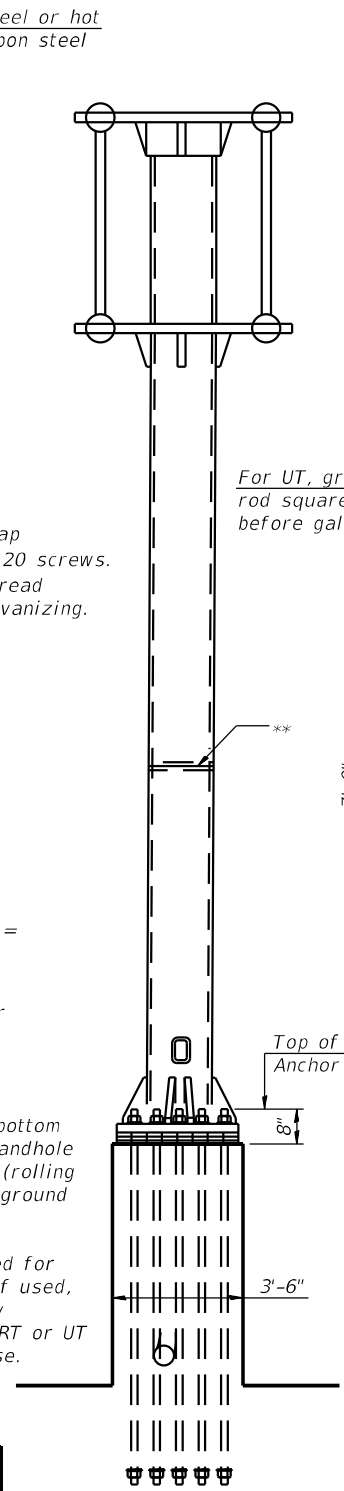


DETAIL A

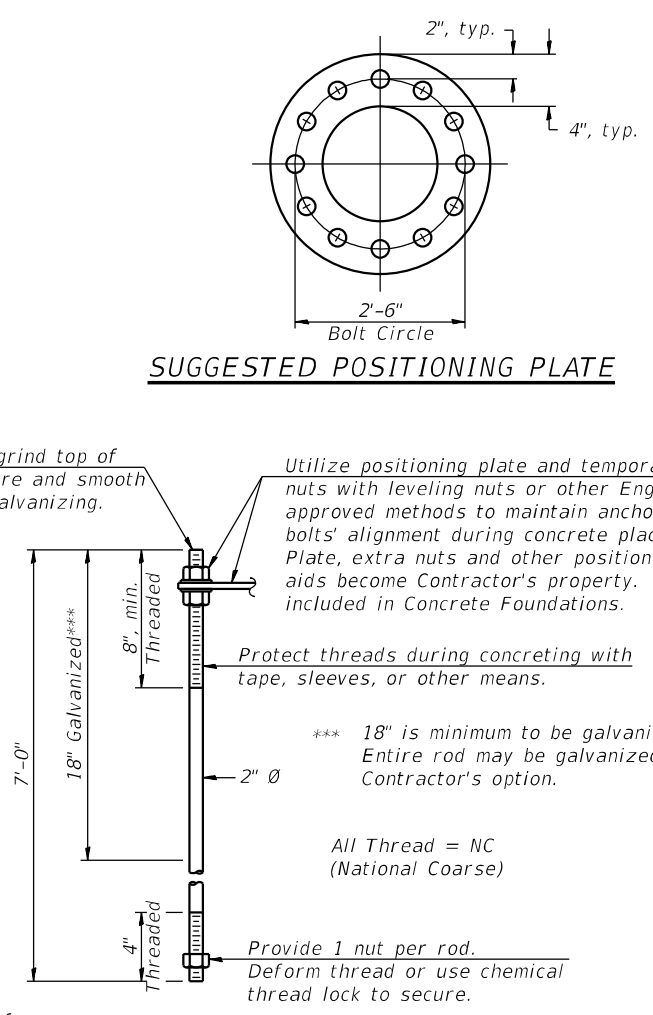
Provide 8" x 4 1/2" cover. Outside corners = 2 1/4" radius. Provide 4-3/16" Ø holes in for 1/4" - 20 round head hot dip galvanized or stainless steel machine screws. (See cover details.)

* 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 500µ in 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



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 and a leveling nut and washer below 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 Concrete Foundations.

Utilize positioning plate and temporary nuts with leveling nuts or other Engineer approved methods to maintain anchor bolts' alignment during concrete placement. Plate, extra nuts and other positioning aids become Contractor's property. Cost included in Concrete Foundations.

Protect threads during concreting with tape, sleeves, or other means.

*** 18" is minimum to be galvanized. Entire rod may be galvanized at Contractor's option.

All Thread = NC (National Coarse)

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

Structure Number	Station	H
① 8F0821255R007.6	-	20'-11"
② 8F0601255R027.1	-	21'-11"

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

OSF-A-5-DMS 2-17-2017



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Ph: 773-881-4788
Fax: 773-239-3720

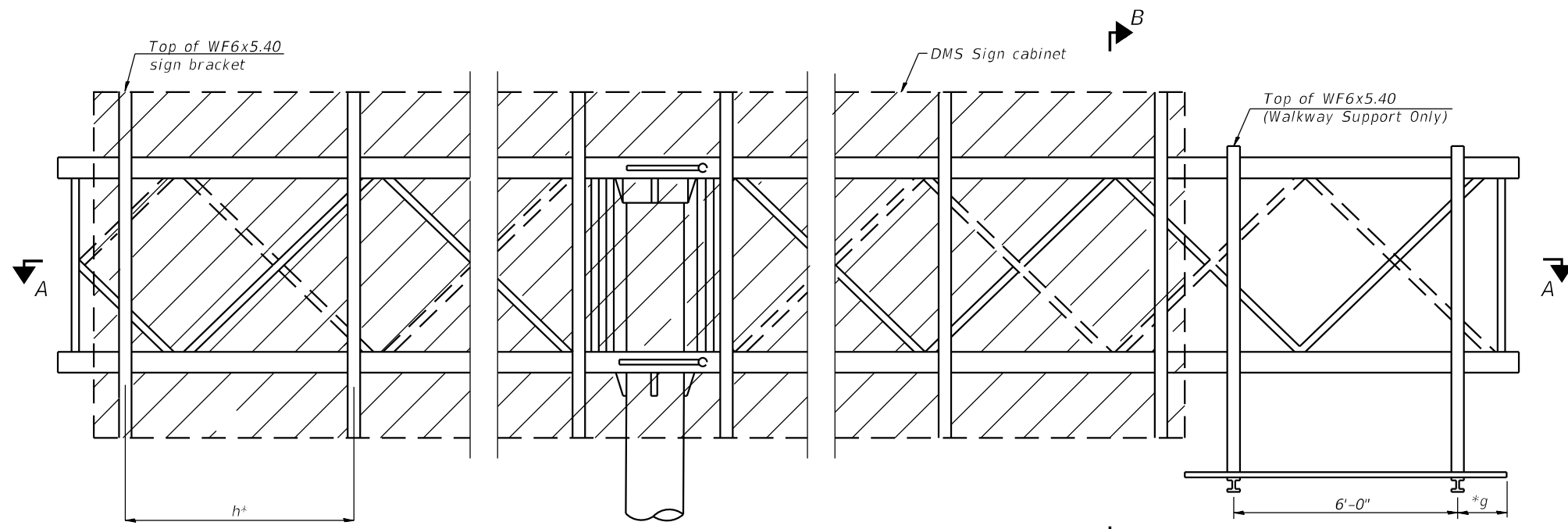
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PLOT SCALE =	DRAWN - MBJ	REVISED -
PLOT DATE =	CHECKED - FH/SEA	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

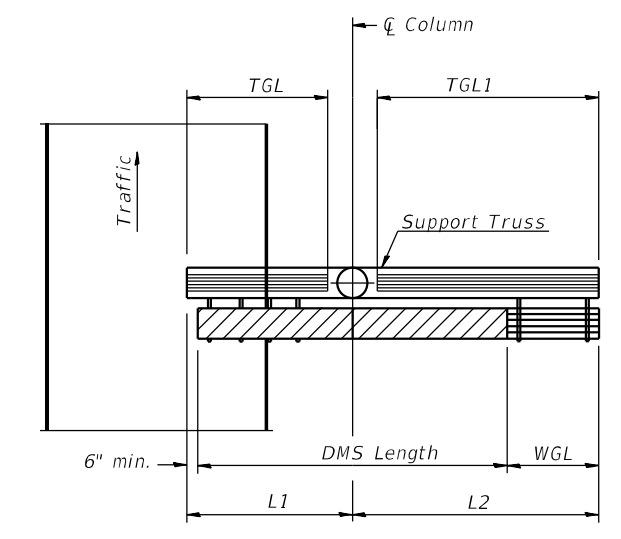
SHEET 6 OF 14 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-8SG-1/80-7SG-1	VARIOUS	53	45
CONTRACT NO. 76P67				
ILLINOIS FED. AID PROJECT				



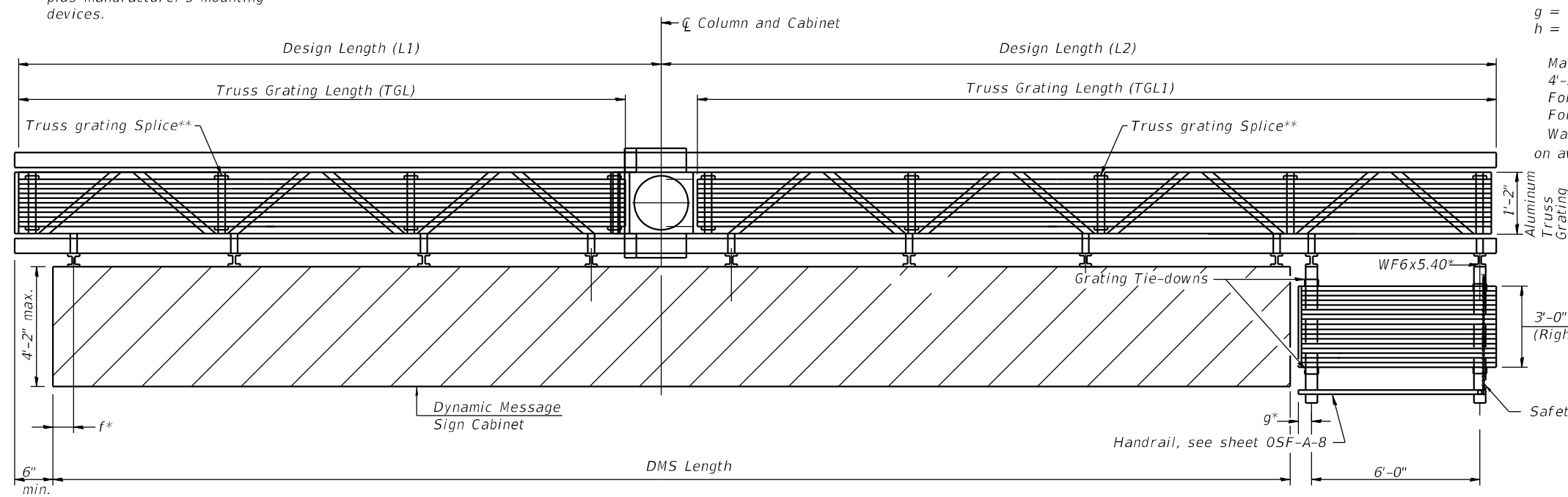
TYPICAL FRONT ELEVATION
 With handrail omitted for clarity.
 For section B-B see base sheet OSF-A-7-DMS

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 \bar{C} of nearest bracket)
 g = 12" maximum, 4" minimum (End of walkway grating to \bar{C} of nearest support bracket)
 h = 6'-0" maximum (\bar{C} to \bar{C} sign and/or walkway support brackets, WF6x5.40)



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) $\pm 12"$ on overhead trusses. Cost of truss grating is included in Butterfly Sign Structure.

$$TGL = L1 \text{ (or } L2) - \left(\frac{\text{Post O.D.} + 6"}{2} \right)$$

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.
 Walkway and truss grating width dimensions are nominal and may vary $\pm 1/2"$ based on available standard width.

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

Structure Number	Station	DMS Length	TGL	TGL1	Walkway Location (Right or Left end of Truss)
8F0821255R007.6	-	30'-0"	21'-0"	14'-0"	Left
8F0601255R027.1	-	30'-0"	21'-0"	14'-0"	Left

OSF-A-6-DMS 2-17-2017

ABNA
 DESIGN FIRM REG. 184.002117
 745 McClintock Drive
 Suite 210
 Burr Ridge, IL 60527
 Ph. 773-881-4788
 Fax: 773-239-3720

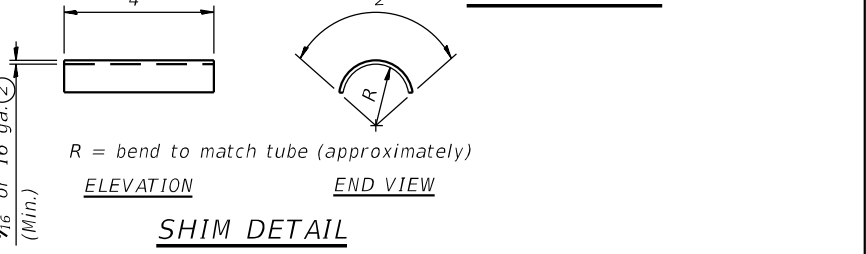
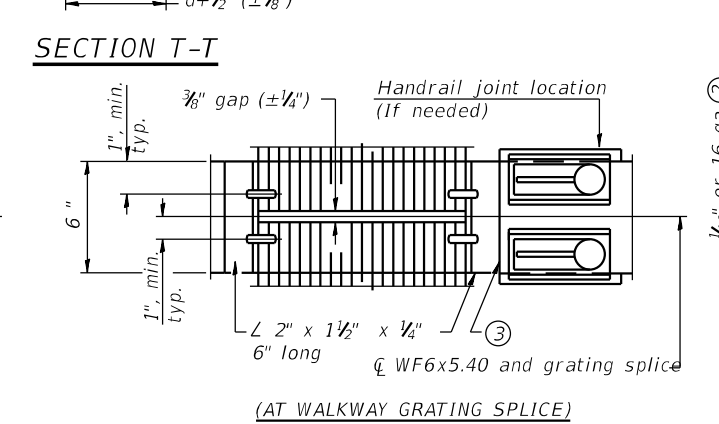
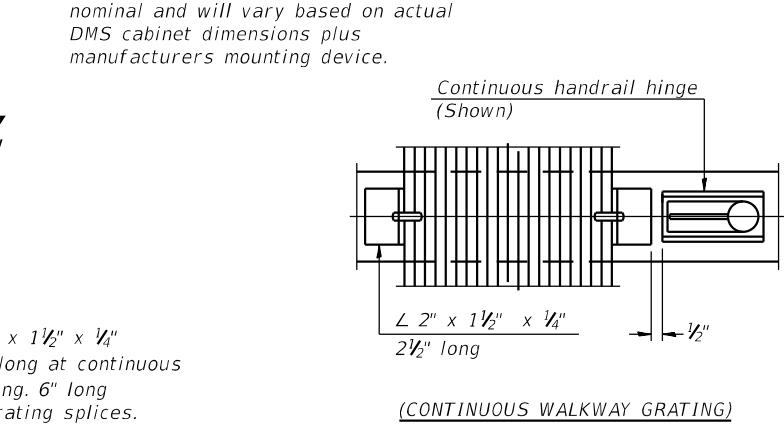
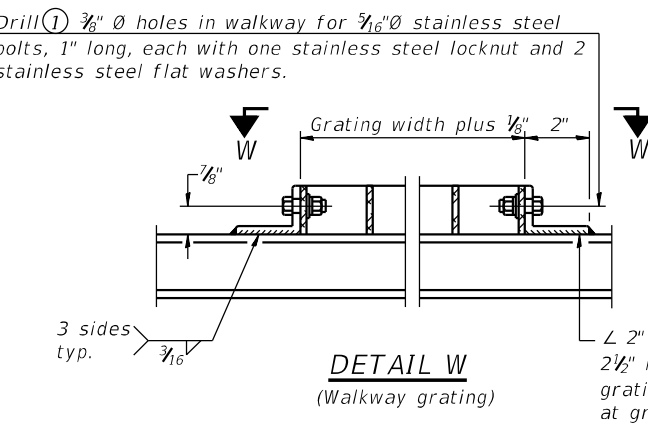
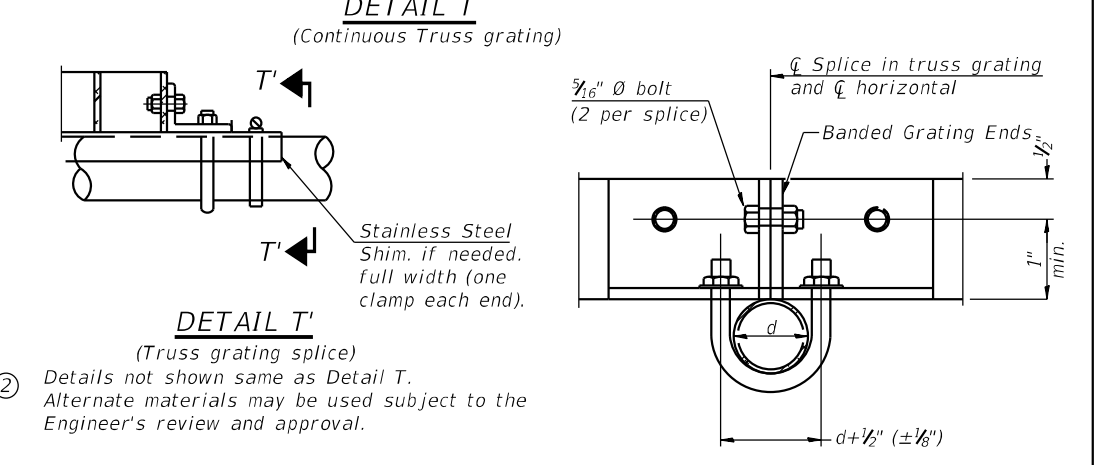
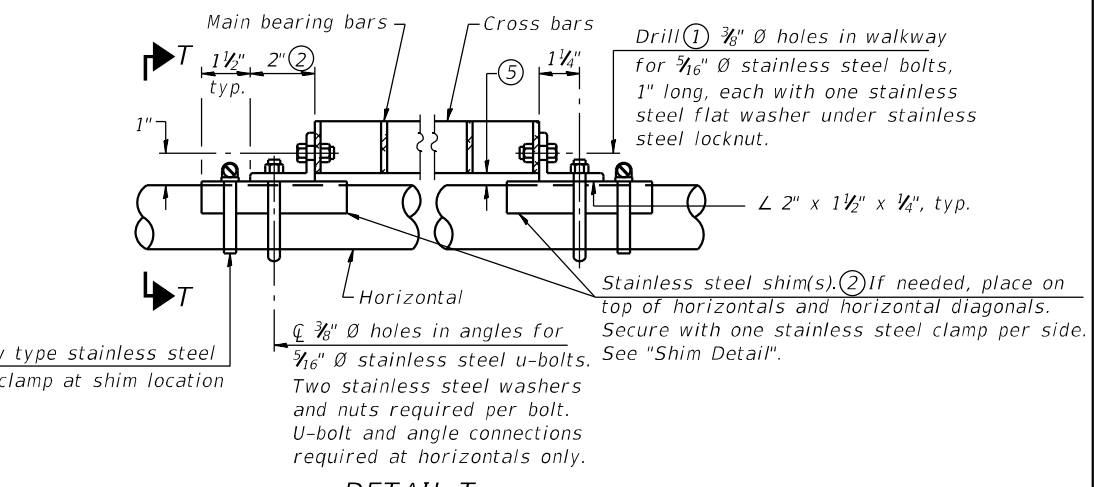
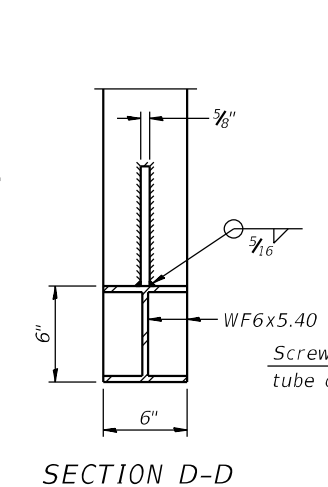
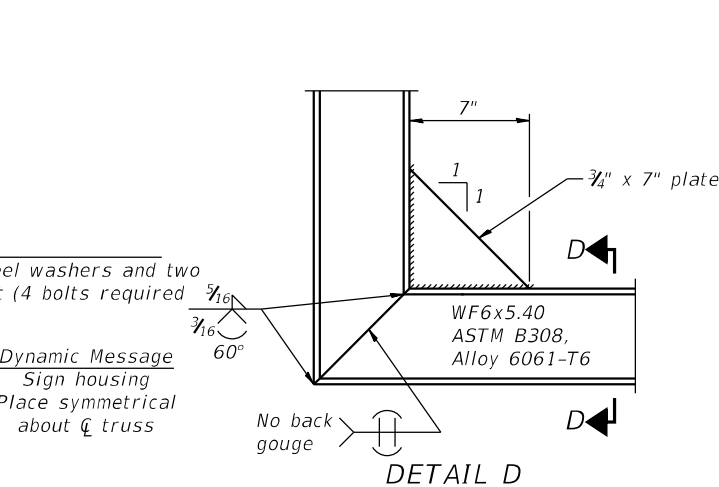
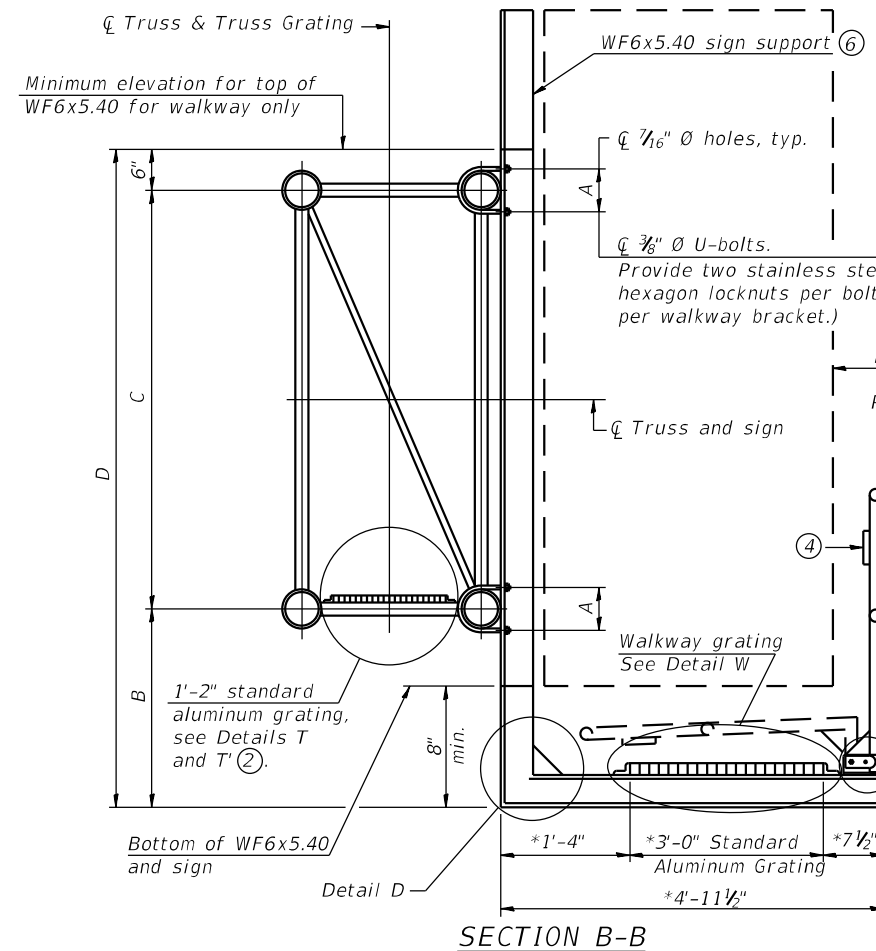
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PLOT DATE =	CHECKED - FH/SEA	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BUTTERFLY SIGN STRUCTURES - ALTERNATE
 ALUMINUM WALKWAY DETAILS FOR DMS**

SHEET 7 OF 14 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-8SG-1/80-79G-1	VARIOUS	53	46
CONTRACT NO. 76P67				
ILLINOIS FED. AID PROJECT				



Drill ① 3/8\"/>

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\"/>

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

④ R 1/8\"/>

⑤ Tube to grating gap may vary from 0 to 1/2\"/>

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.

SECTION W-W

Structure Number	Station	A	⑦ B	C	⑦ D
8F0821255R007.6	-	7 1/2"	2'-2"	7'-0"	9'-8"
8F0601255R027.1	-	7 1/2"	2'-2"	7'-0"	9'-8"

SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars (MBB) shall be 3/8\"/>

Cross bars (CB) shall be 3/8\"/>

OR

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

Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.³ per bar, a depth of 1 1/2\", spaced on 1 3/8\"/>

Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4\"/>

OSF-A-7-DMS 2-17-2017

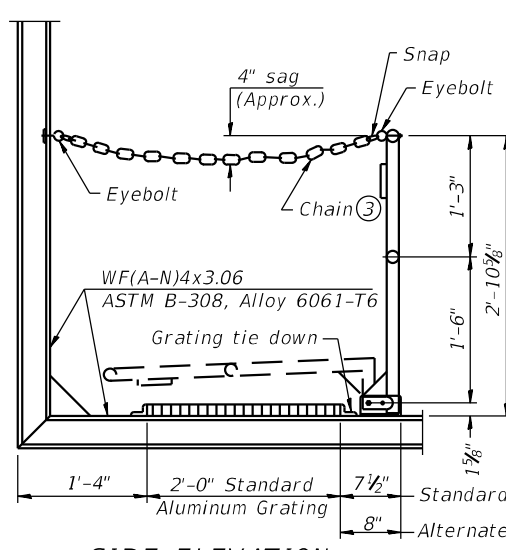


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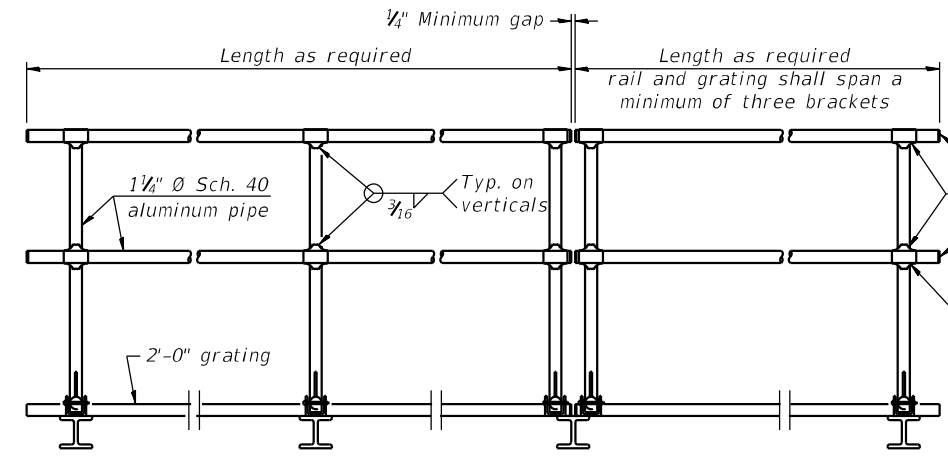
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-8SG-1/80-7SG-1	VARIOUS	53	47
CONTRACT NO. 76P67				



SIDE ELEVATION
(Showing Safety Chain W/O Sign)

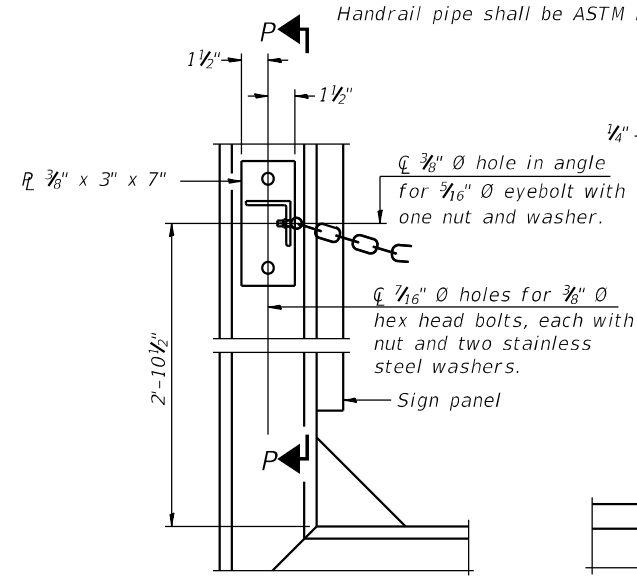


FRONT ELEVATION

HANDRAIL DETAILS

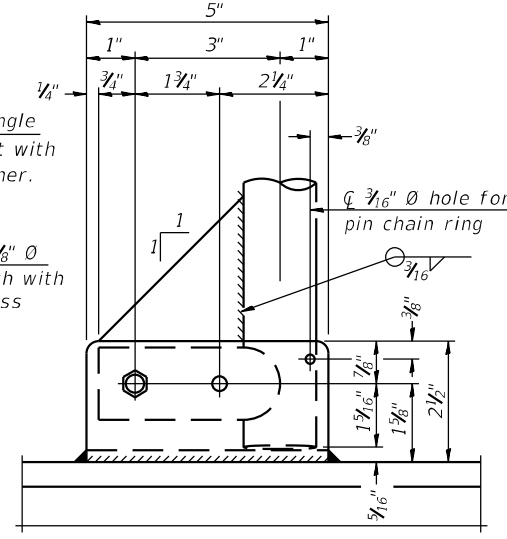
Handrail pipe shall be ASTM B241 or B429, Alloy 6063-T6 or Alloy 6061-T6.

- 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" Ø hole in fitting for 3/8" Ø bolt. Field drill 1/16" Ø hole in horizontal rail member. Provide locknut and two stainless steel washers for bolt. (Use 3/16" eyebolts in 1/16" Ø holes on top rail at ends only.)

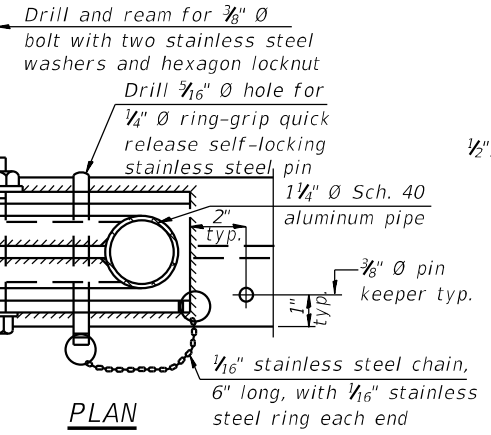


ALTERNATE SAFETY CHAIN ATTACHMENT

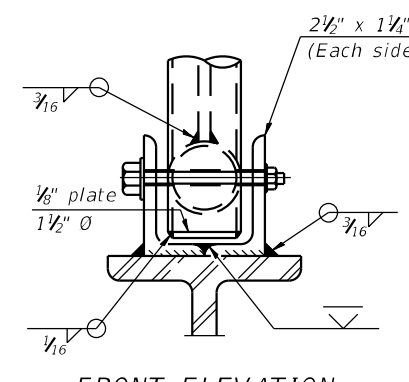
(With Sign Present)
Items not shown same as "Side Elevation" of "Handrail Details"



SIDE ELEVATION

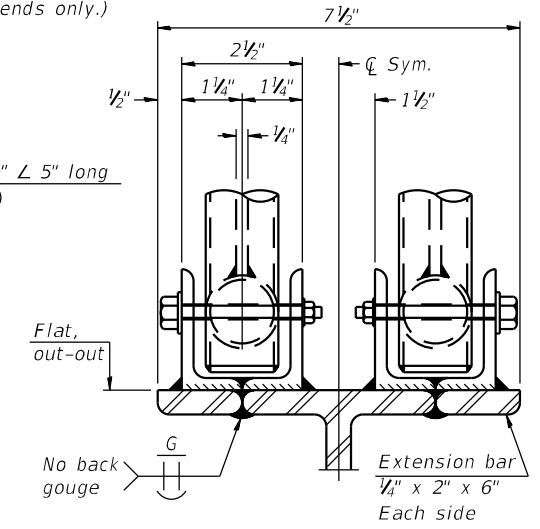


DETAIL E HANDRAIL HINGE



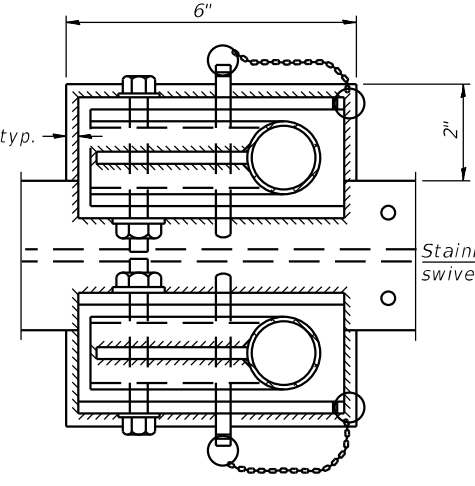
FRONT ELEVATION

Details not shown same as "ELEVATION" at right.



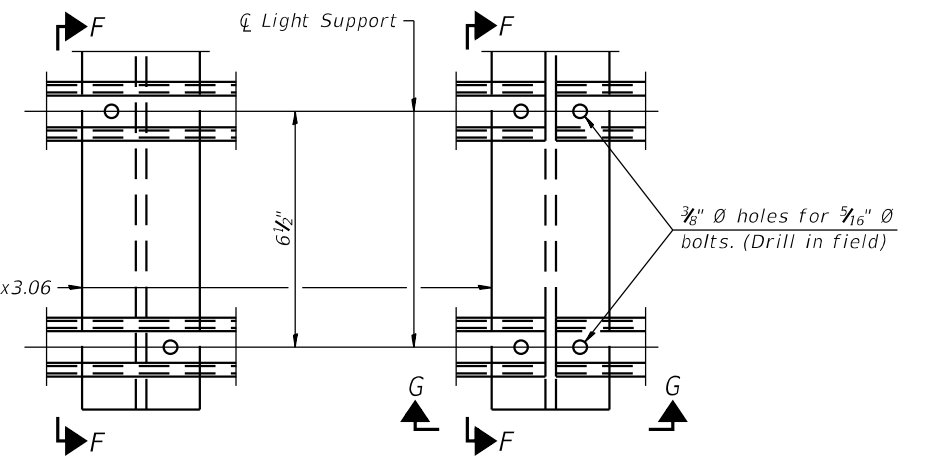
ELEVATION AT HANDRAIL JOINT ④

Details not shown same as "FRONT ELEVATION"



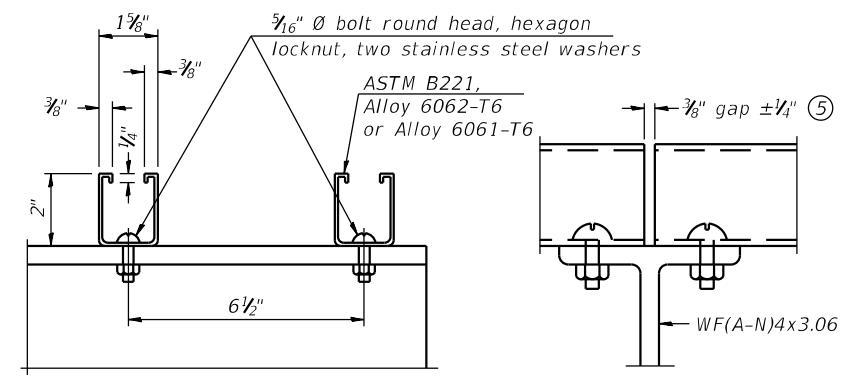
PLAN AT HANDRAIL JOINT

Details not shown same as "PLAN"



DETAIL F

DETAIL G

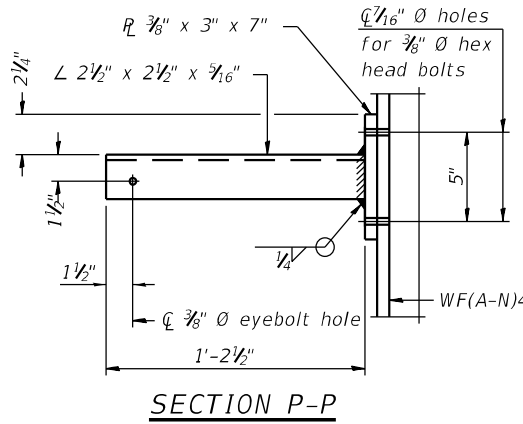


SECTION F-F

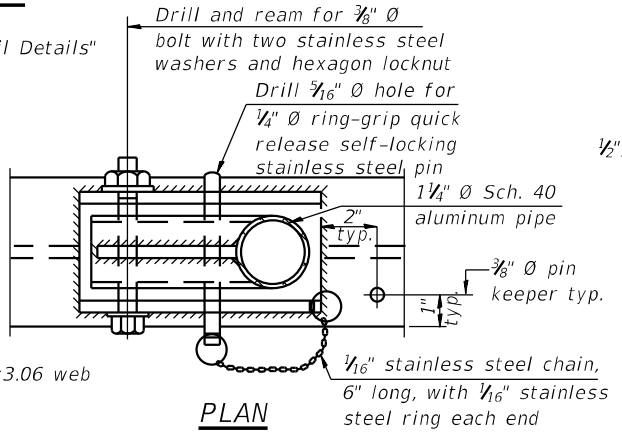
SECTION G-G

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.

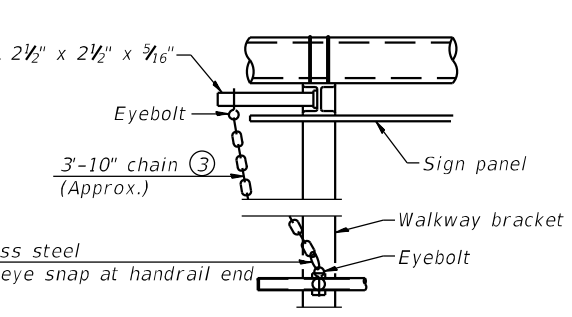


SECTION P-P



PLAN

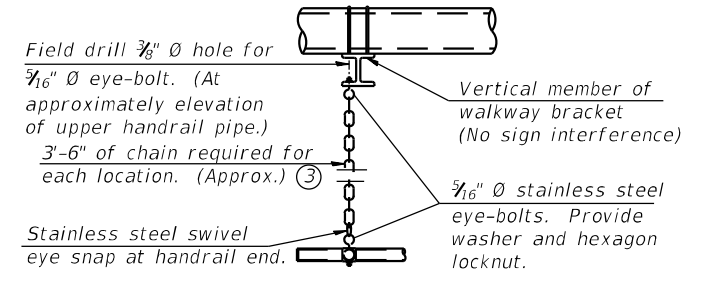
DETAIL E HANDRAIL HINGE



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.

FILE NAME: I:\2021\6092W\3\Cadd\Design\21-6092_001_SHT_BUTTERFLY.DWG

OSF-A-8 2-17-2017

ABNA
DESIGN FIRM REG. 184.002117
745 McClintock Drive
Suite 210
Burr Ridge, IL 60527
Ph. 773-881-4788
Fax: 773-239-3720

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**BUTTERFLY SIGN STRUCTURES - HANDRAIL DETAILS
ALUMINUM TRUSS & STEEL POST**

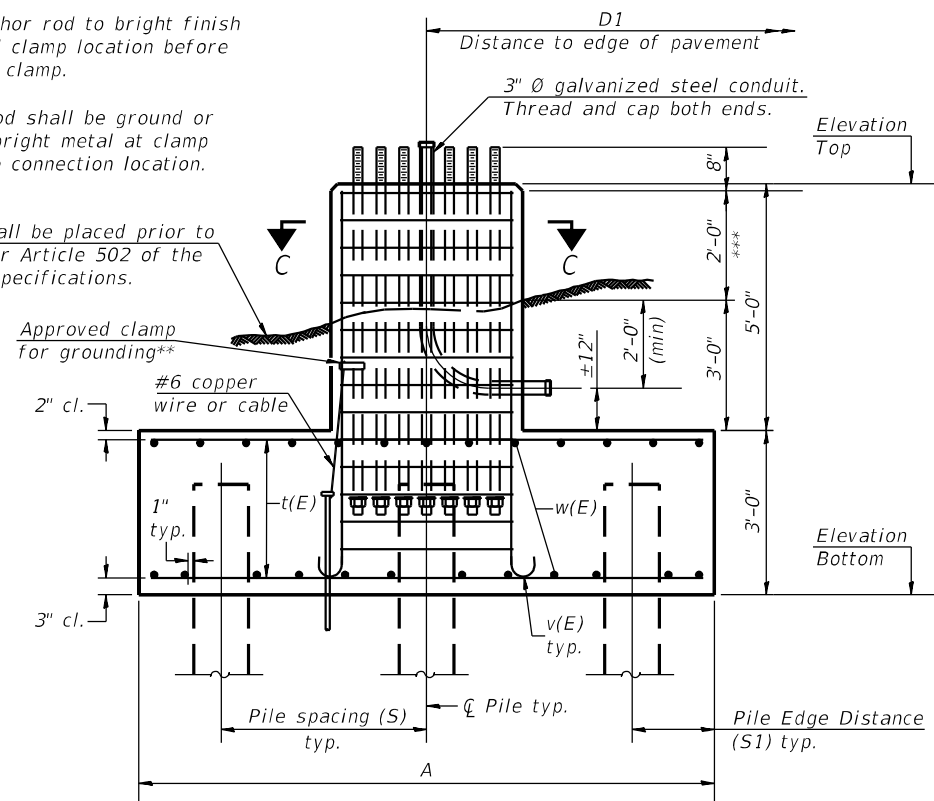
SHEET 9 OF 14 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-8SG-1/80-7SG-1	VARIOUS	53	48
CONTRACT NO. 76P67				
ILLINOIS FED. AID PROJECT				

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

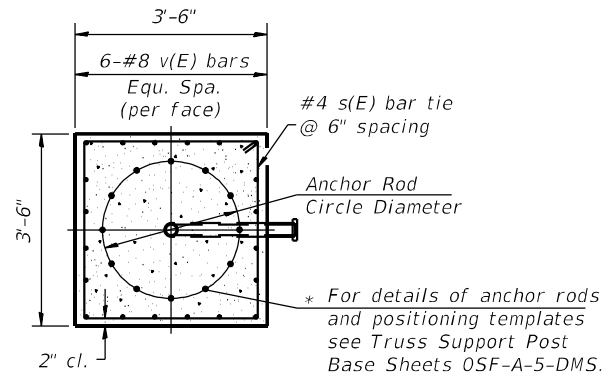
** Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.

Backfill shall be placed prior to erection per Article 502 of the Standard Specifications.



SECTION A-A

*** 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 Concrete Foundations.



SECTION C-C

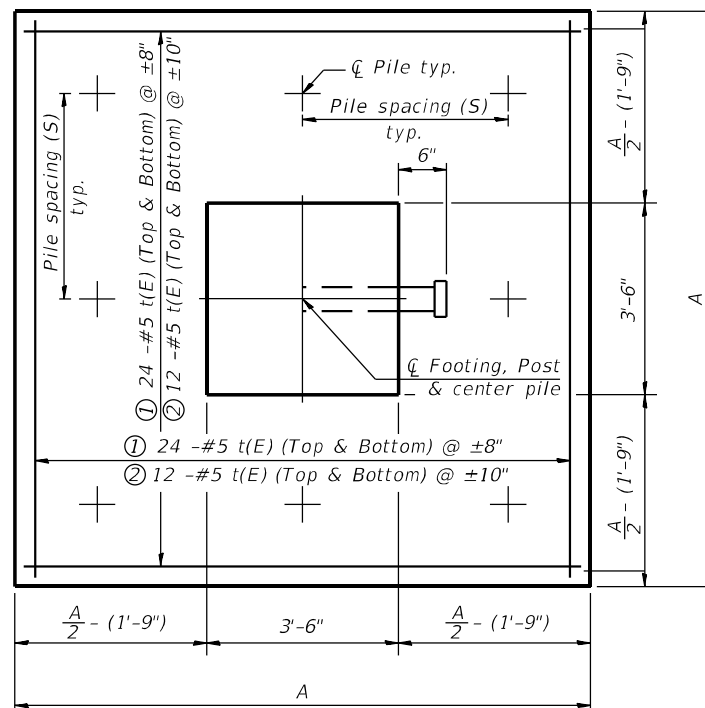
NOTES:

1. The foundation dimensions shown in the Foundation Design Table are based on the soil boring data at the foundation location and the corresponding geotechnical information. See sheets 13 and 14 for boring logs information. 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.

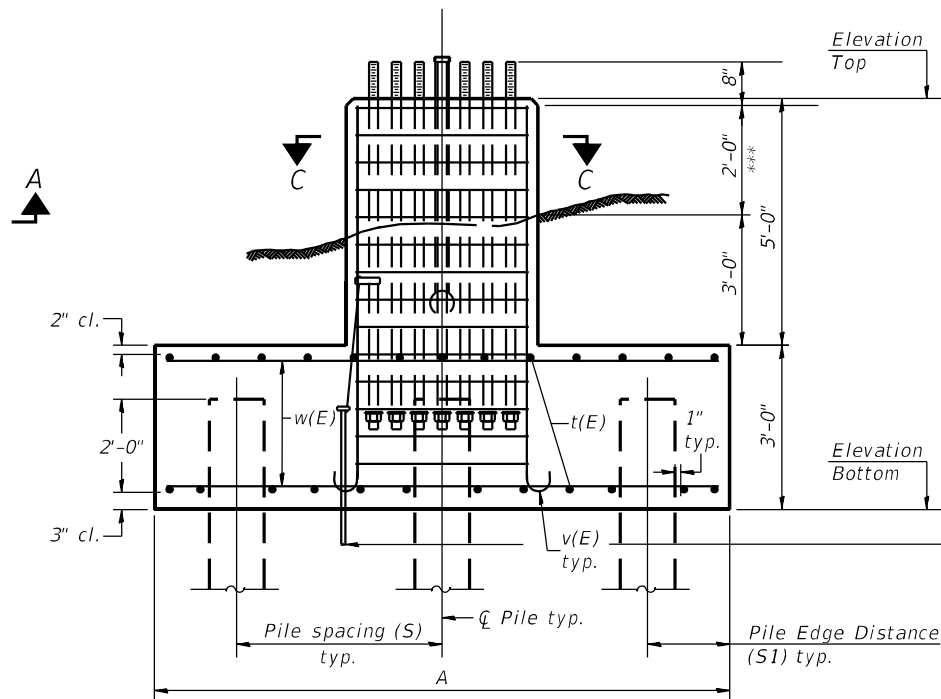
2. Concrete shall be placed monolithically, without construction joints. Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

Structure Number	Concrete Foundation (Cu. Yds.)	Square Footing Geometry			Piles Information									
		Elevation Top	Elevation Bottom	A	S	S1	Type of piles	Nominal Required Resistance (Kips)	Factored Available Resistance (Kips)	No. of piles	No. of Test piles	Piles top Elevation	Piles btm Elevation	Est. Length
① 8F0821255R007.6	36.3	416.0	408.0	17'-6"	7'-3"	1'-6"	HP12X53	194	107	9	-	410.0	393.0	17'-0"
② 8F0601255R027.1	14.6	419.0	411.0	10'-6"	3'-9"	1'-6"	MS12X0.25"	231	127	8	1	413.0	369.0	44'-0"

B



PLAN VIEW



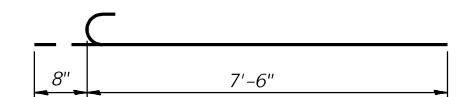
SECTION B-B

BAR LIST - FOUNDATION 1

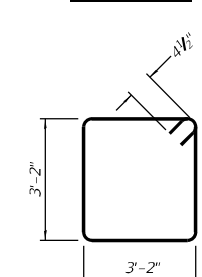
Bar	Number	Size	Length	Shape
t(E)	48	#5	17'-2"	—
w(E)	48	#5	17'-2"	—
v(E)	20	#8	8'-2"	⌋
s(E)	15	#4	13'-5"	⌋

BAR LIST - FOUNDATION 2

Bar	Number	Size	Length	Shape
t(E)	24	#5	10'-2"	—
w(E)	24	#5	10'-2"	—
v(E)	20	#8	8'-2"	⌋
s(E)	15	#4	13'-5"	⌋



BAR v(E)



BARS s(E)

3/8" Ø x 10'-0" copper weld ground rod driven into ground 9'-0". Cost of rod, cable, conduit, caps and clamps shall be included in Concrete Foundations.

FILE NAME: I:\2021\6092W3\Cadd\Design\21-6092_001_SHT_BUTTERFLY DMS.dgn



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Fax: 773-239-3720

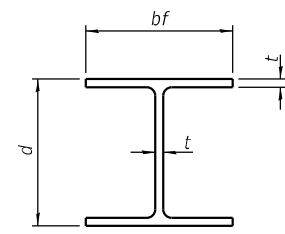
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PLOT SCALE =	CHECKED - SEA	REVISED -
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	CHECKED - FH/SEA	REVISED -

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BUTTERFLY SIGN STRUCTURES FOR DMS
FOUNDATION DETAILS

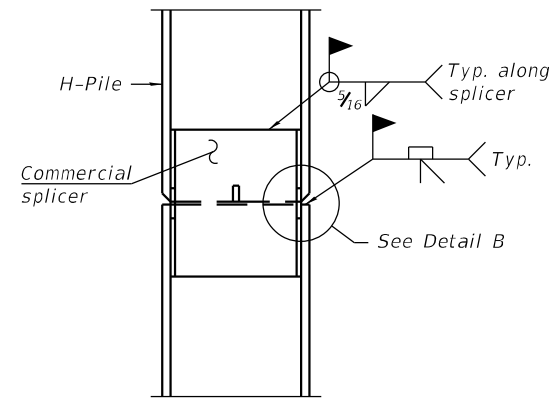
SHEET 10 OF 14 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-8SG-1/80-7SG-1	VARIOUS	53	49
CONTRACT NO. 76P67				
ILLINOIS FED. AID PROJECT				

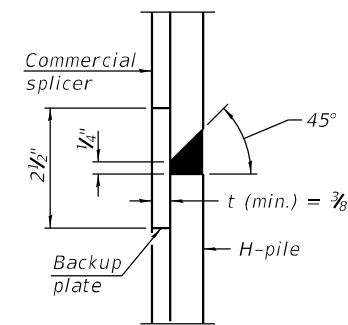


STEEL PILE TABLE

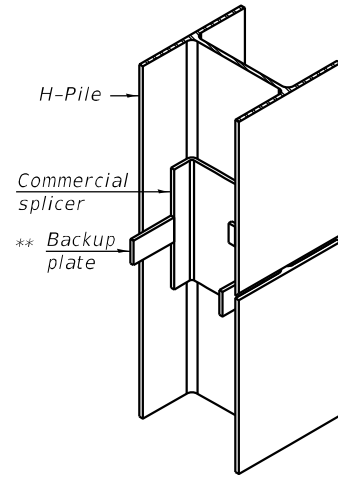
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 3/8"	14 3/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



ELEVATION

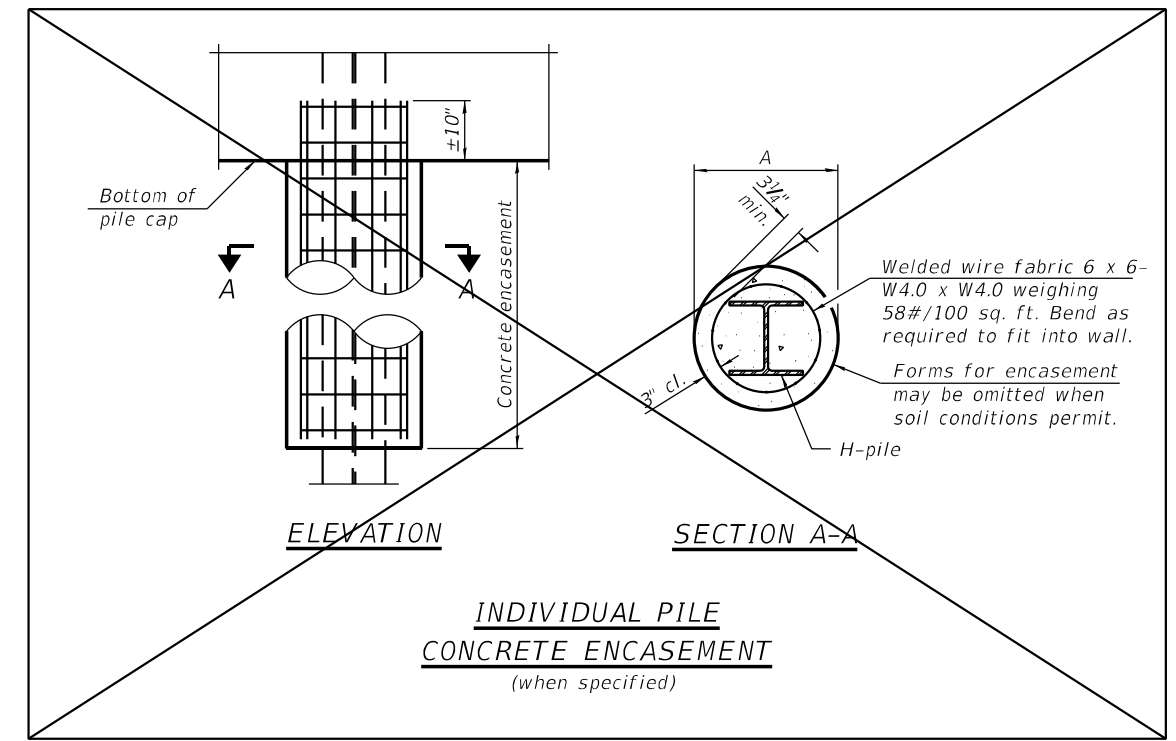


DETAIL "B"



ISOMETRIC VIEW

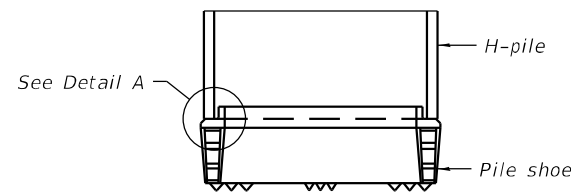
WELDED COMMERCIAL SPLICE



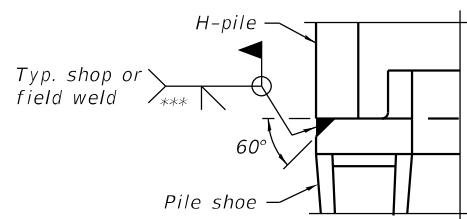
ELEVATION

SECTION A-A

INDIVIDUAL PILE CONCRETE ENCASUREMENT (when specified)



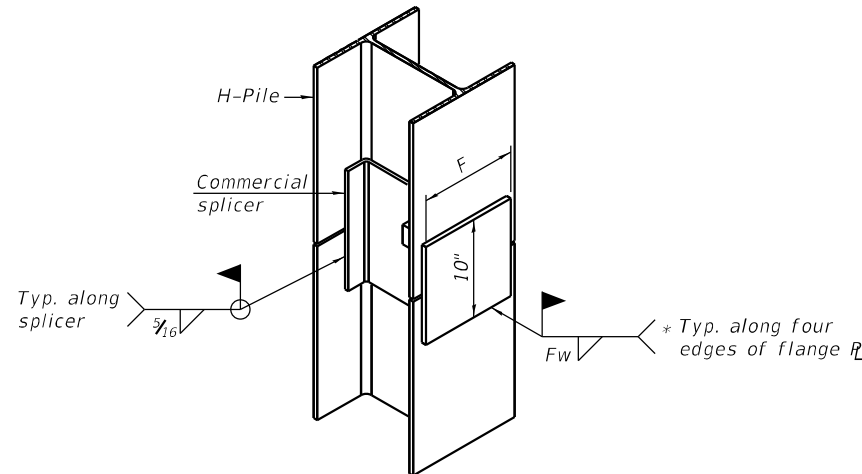
ELEVATION



DETAIL A

SHOE ATTACHMENT

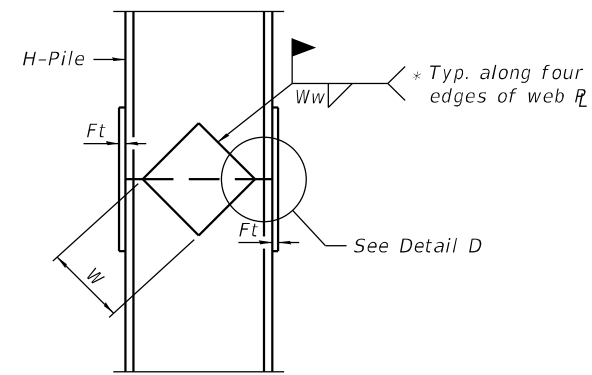
Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.



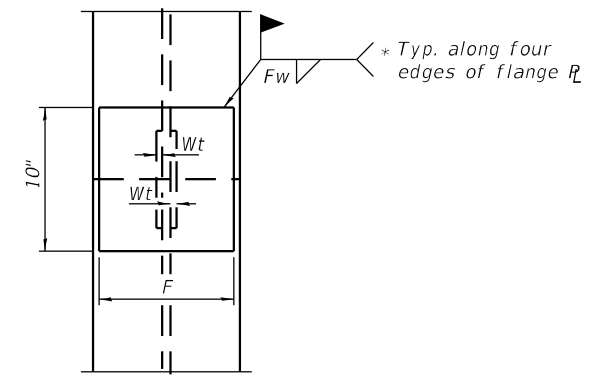
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

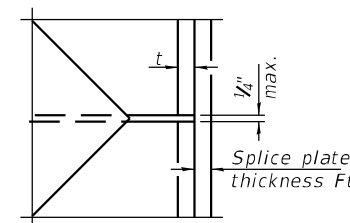
- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (3/16" min.).



ELEVATION



END VIEW



DETAIL D

WELDED PLATE FIELD SPLICE

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	3/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1 1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	5/8"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	5/8"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	3/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	3/8"	7/16"	4 1/4"	1/2"	3/8"

FILE NAME: I:\2021\6092W\3\Cadd\Design\21-6092_001_SFI_BUTTERFLY.DWG.dgn

F-HP 1-1-2020



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Fax: 773-239-3720

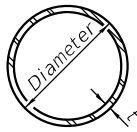
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	CHECKED - FH/SEA	REVISED -

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DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE NO.

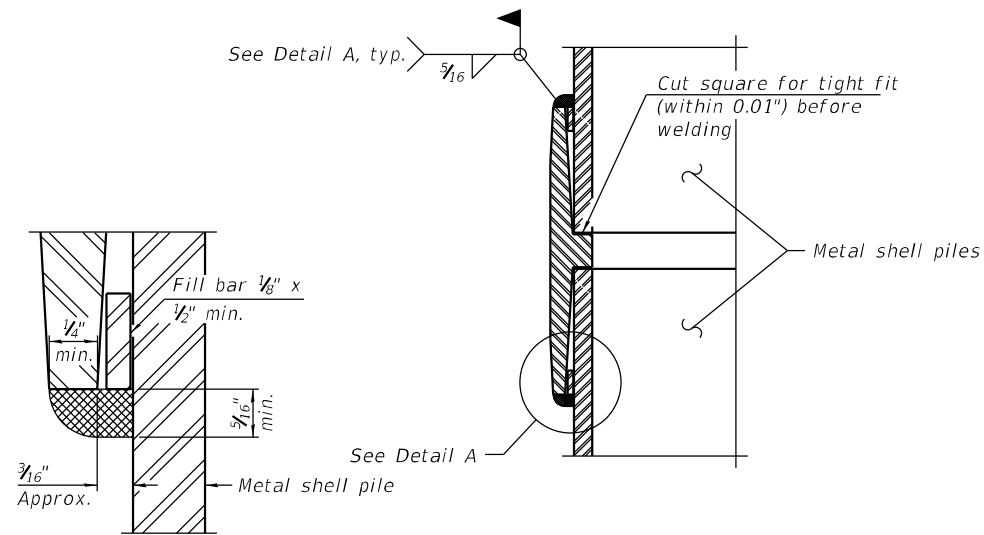
SHEET 11 OF 14 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-8SG-1 / 80-7SG-1	VARIOUS	53	50
CONTRACT NO. 76P67				
ILLINOIS FED. AID PROJECT				



METAL SHELL PILE TABLE

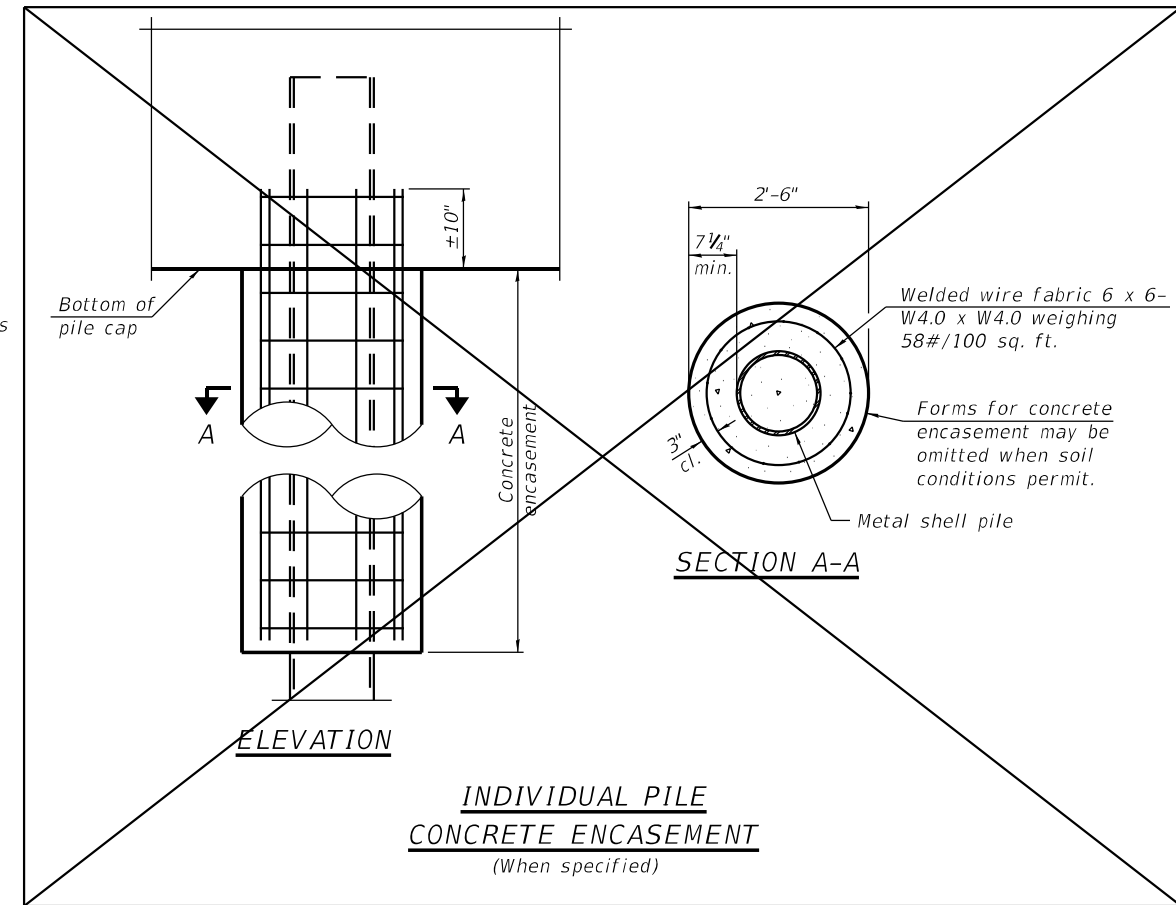
Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. ³ /ft.)
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361
PP16	0.312"	52.32	0.0478
PP16	0.375"	62.64	0.0470



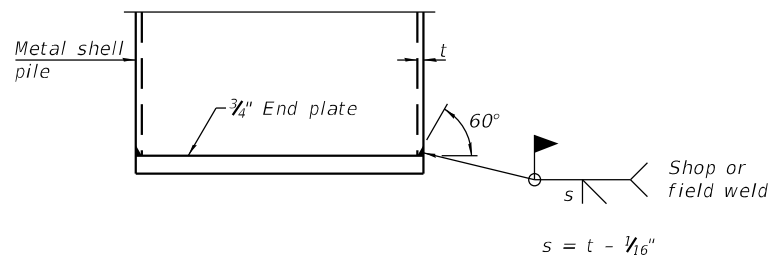
DETAIL A

WELDED COMMERCIAL SPLICE

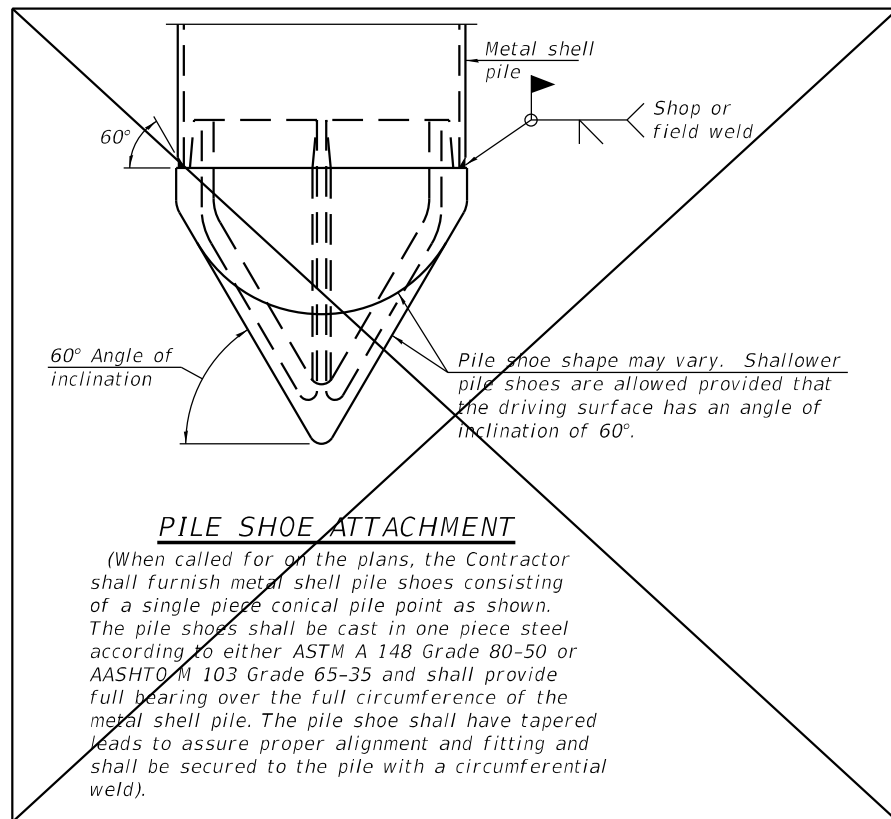
Notes:
 The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.
 Pile segments shall be driven to solid contact with splicer before welding.



INDIVIDUAL PILE CONCRETE ENCASEMENT
(When specified)

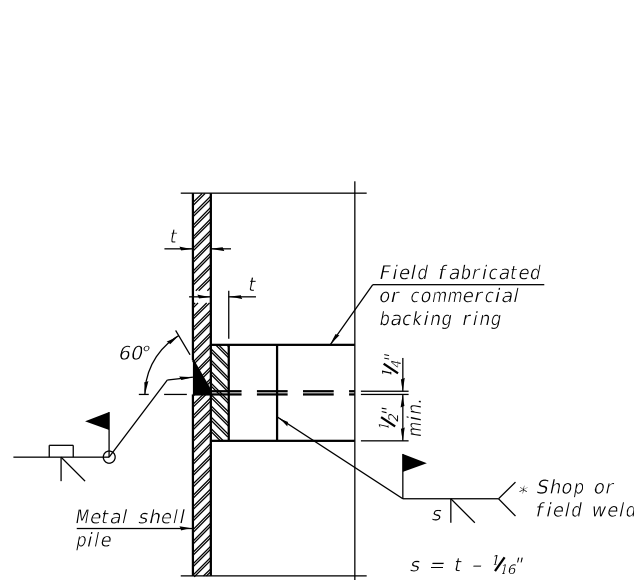


END PLATE ATTACHMENT



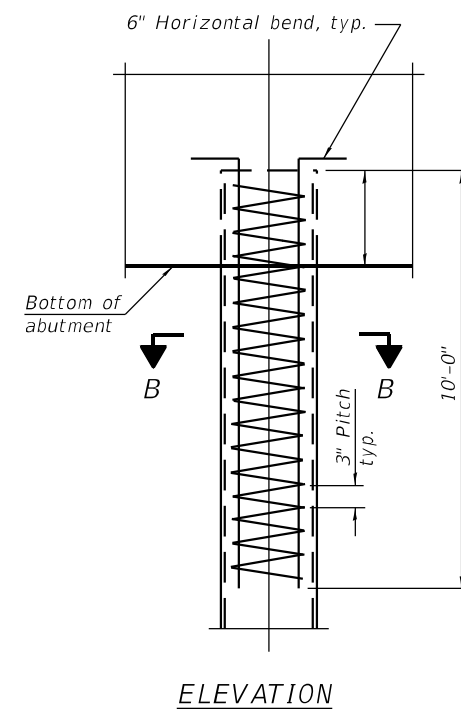
PILE SHOE ATTACHMENT

(When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 80-50 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld).



COMPLETE PENETRATION WELD SPLICE

* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



ELEVATION

REINFORCEMENT AT ABUTMENTS
(Omit when concrete encasement is specified)

Note:
 The metal shell piles shall be according to Article 1006.05 of the Standard Specifications.

F-MS 1-1-2020



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**METAL SHELL PILE DETAILS
 STRUCTURE NO.**

SHEET 12 OF 14 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-8SG-1/80-7SG-1	VARIOUS	53	51
CONTRACT NO. 76P67				

ILLINOIS FED. AID PROJECT



SOIL BORING LOG

Date 7/30/22

ROUTE I-255 DESCRIPTION DMS Boards on I-255 (Northbound at Mile Marker 7.6) LOGGED BY KEG

SECTION LOCATION 38°29'20.85"N, 90°13'5.67"W

COUNTY St. Clair DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO.	D	B	U	M	Surface Water Elev.	ft	D	B	U	M	
Station	E	L	C	O	Stream Bed Elev.	ft	E	L	C	O	
BORING NO.	P	O	S	I	Groundwater Elev.:		P	O	S	I	
Station	T	W	Qu	T	First Encounter	ft	H	S	Qu	T	
Offset	H	S			Upon Completion	ft	(ft)	(/6")	(tsf)	(%)	
Ground Surface Elev.	(ft)	(/6")	(tsf)	(%)	After	Hrs.	ft	(ft)	(/6")	(tsf)	(%)
TOPSOIL - 3"					SANDY CLAY - Gray, soft, moist						
SILT - Gray + brown, med-stiff, w/ some organics		2			(continued)						
		5	2.0	12	Poor Recovery, w/ pebbles	393.4		50/2"			
		7	P		Auger Refusal at 21.2' on Limestone					28	
					End of Boring						
becomes gray, w/ some gravel		1									
		3	1.1	23							
		4	S								
		5									
LL=32% PL=23%, PI=9%		1									
		1	0.1	26							
		1	B								
SILTY CLAY - Gray, soft, moist w/ some sand		WH									
		WH	0.0	36							
		WH	P								
		WH									
		WH	0.2	34							
		WH	B								
CLAY - Gray, soft becomes med-stiff		1									
		1	0.4	35							
		1	B								
becomes moist GRAVEL = 1.2%, SAND=22.7%, FINES=76.1%		WH									
		1	0.8	32							
		2	B								
SANDY CLAY - Gray, soft, moist		WH									
		WH	0.2	33							
		1	B								

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

BBS, form 137 (Rev. 8-99)

FILE NAME: I:\202116092W\3\Cadd\Design\21-6092_001_SHT_BUTTERFLY DMS.dgn



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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BORING LOGS
 1 OF 2

SHEET 13 OF 14 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	82-8SG-1 / 80-7SG-1	VARIOUS	53	52
CONTRACT NO. 76P67				
ILLINOIS FED. AID PROJECT				



SOIL BORING LOG

Date 10/17/22

ROUTE I-255 DESCRIPTION DMS Boards on I-255 (Southbound at Mile Marker 27.1) LOGGED BY KEG

SECTION LOCATION 38°42'25.16"N, 90° 1'42.77"W

COUNTY Madison DRILLING METHOD HSA HAMMER TYPE AUTO

Table with columns for D E P T H, B L O W S, U C S, M O I S T, and soil descriptions. Includes data for TOPSOIL, SILTY CLAY, SANDY CLAY, and CLAY.

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

BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Date 10/17/22

ROUTE I-255 DESCRIPTION DMS Boards on I-255 (Southbound at Mile Marker 27.1) LOGGED BY KEG

SECTION LOCATION 38°42'25.16"N, 90° 1'42.77"W

COUNTY Madison DRILLING METHOD HSA HAMMER TYPE AUTO

Table with columns for D E P T H, B L O W S, U C S, M O I S T, and soil descriptions. Includes data for SAND (SP) and SAND (SP)-Brown and Gray.

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)

FILE NAME: I:\2021\6092\W3\Cadd\Design\21-6092_001_SHI_BUTTERFLY DMS.dgn



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Table with columns for USER NAME, DESIGNED, CHECKED, PLOT SCALE, PLOT DATE, and REVISIONS.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

BORING LOGS 2 OF 2

SHEET 14 OF 14 SHEETS

Table with columns for F.A.I. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., and CONTRACT NO.