FOR INDEX OF SHEETS, SEE SHEET NO. 2

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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

132-4TS ILLINOIS CONTRACT NO. 76T77

D-98-051-24

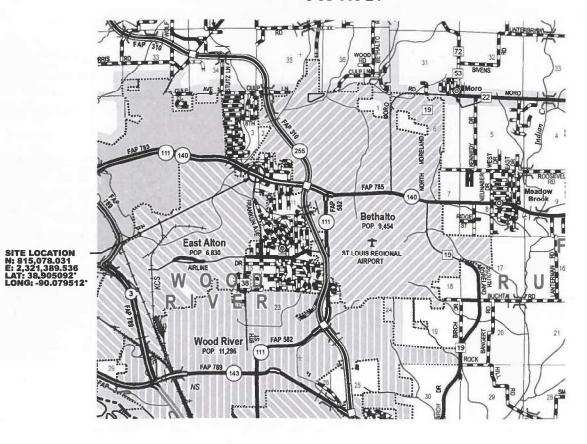


PROPOSED HIGHWAY PLANS

FAP ROUTE 785 (IL 111-140) SECTION 132-4TS

TRAFFIC SIGNAL REPLACEMENT **MADISON COUNTY**

C-98-113-24



ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS. THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

PROJECT MANAGER RICHARD BARBEE

1022 Eastport Plaza Drive Collinsville, Illinois 62234 Phone: (618) 855-8000

Illinois Professional Design Firm No. 184-003252 License Expires 4/30/2026

GROSS LENGTH = 708.00 FT. = 0.134 MILE NET LENGTH = 708.00 FT. = 0.134 MILE

XX/XX/XXXX

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

REV - MS

PROJECT ENGINEER CHERYL KEPLAR

CONTRACT NO. 76T77

FUHRMANN ENGINEERING WWW. FUHRMANN-ENG .COM

License Expires 11/30/2025

062-067085

INDEX OF SHEETS

- COVER
- GENERAL NOTES
- 3-4 SUMMARY OF QUANTITIES
- 5 REMOVAL PLAN
- 6-9 TRAFFIC SIGNAL DETAILS
- 10-11 SOIL BORINGS

HIGHWAY STANDARDS

000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

001001-02 AREAS OF REINFORCEMENT BARS

001006 DECIMAL OF AN INCHAND OF A FOOT

701006-05 OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE

701101-05 OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 M) TO 24" (600 MM) FROM PAVE MENT EDGE

701301-04 LANE CLOSURE, 2L, 2W, SHORTTIME OPERATIONS

701701-10 URBAN LANE CLOSURE, MULTILANE INTERSECTION

701901-10 TRAFFIC CONTROL DEVICES

720001-01 SIGN PANEL MOUNTING DETAILS

720016-04 MAST ARM MOUNTED STREET NAME SIGNS

805001-01 ELECTRICAL SERVICE INSTALLATION DETAILS

814001-03 HANDHOLES

814006-03 DOUBLE HANDHOLES

838001-01 BREAKAWAY DEVICES

857001-01 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES

873001-02 TRAFFIC SIGNAL GROUNDING & BONDING

877001-08 STEEL MAST ARM ASSEMBLY AND POLE 16'THROUGH 55'

878001-11 CONCRETE FOUNDATION DETAILS 880006-01 TRAFFIC SIGNAL MOUNTING DETAILS

886001-01 DETECTOR LOOP INSTALLATIONS

886006-01 TYPICAL LAYOUTS FOR DETECTION LOOPS

GENERAL NOTES

1 UTILITIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA:

THE PROJECTION OF THE PROJECT PROJECT		
	ABOVE	BELOW
UTILITY	GROUND	GROUND
AMEREN	X	
AT&T	X	
CHARTER COMMUNICATIONS	X	
VILLAGE OF BETHALTO		X

2 EXISTING UTILITIES ARE SHOWN ON THE PLANS ACCORDING TO INFORMATION OBTAINED FROM THE LOCAL AGENCIES, OWNERS, AND FIELD SURVEYS. THE ACCURACY AND COMPLETENESS OF SAID INFORMATION IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXISTENCE, NATURE AND EXACT LOCATIONS OF ALL UTILITY LINES AND APPURTENANCES WITH THE LIMITS OF IMPROVEMENTS.

- 3 THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUBCONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION-RELATED SKILLS, E.G., MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSE WORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL-TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS. CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.
- 4 THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
- ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DIPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY. ACCORDING TO THE ARTICLE 202.30 OF THE STANDARD SPECIFICATION AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE BE PAID FOR SEPERATELY, BUT SHALL BE INCLUDED IN THE COSTS OF THE UNDERGROUND CONDUIT.
- 6 ALL ELEVATIONS REFER TO THE USGS MEAN SEA LEVEL DATUM.
- 7 ALL TURF AREAS DISTURBED BY THE CONTRACTOR SHALL BE SEEDED AS DIRECTED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.

F.A.P.

SCALE:

8 THE RESIDENT ENGINEER SHALL VERIFY THE EXISTENCE OF HIGHWAY LIGHTING AND/OR ELECTRICAL CABLES ASSOCIATED WITH TRAFFIC SIGNALS WITHIN THE PROJECT LIMITS. IF ANY OF THESE EXIST WITHIN TH EPROJECT LIMITS, AND IF THESE ITEMS REQUIRE LOCATING, THE CONTRACTOR SHALL BE DIRECTED TO DO SO ACCORDING TO SECTION 803 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE PAID FOR ACCORDING TO ATRICLE 109.04 OF THE STANDARD SPECIFICATIONS.

COMMITMENTS

NONE

FUHRMANN ENGINEERING
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	DRAWN -	REVISED -
PLOT SCALE = 0.166666 ' / in.	CHECKED BDS	REVISED -
PLOT DATE = 1/23/2025	DATE	REVISED

GENERAL NOTES	F.A.P RTE.	SECTION	COUNT
785 (IL 111/149) FRANKLIN AVE/THELMA AVE.	785	132-4TS	MADISC
,			CONTR
SHEET OF 11 SHEETS STA. TO STA.		ILLINOIS F	ED AID PROJECT

REV - MS

CONTRACT NO. 76T77

COUNTY

MADISON

FOTAL SHEE SHEETS NO.

					CONSTRUCTION	
	SUMMARY OF QUANTITIES					
	CODE NO	ITEM	UNIT	TOTAL	TRAFFIC SIGNA 0021 URBAN	
	40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	38	38	
*	66900200	NON-SPECIAL WASTE DISPOSAL	CUYD	583	583	
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1	
*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1	
ملد	00001003	DECLIE ATED CURSTANCES FINAL CONSTRUCTION REPORT	L CLIM	4	1	
*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1	
*	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	4	4	
	67100100	MOBILIZATION	L SUM	1	1	
	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1	
*	72000100	SIGN PANEL - TYPE 1	SQFT	15	15	
*	72000200	SIGN PANEL - TYPE 2	SQFT	20	20	
Τ.	72000200	GIGN FANEL - TITE 2	Journ	20	20	
*	72400310	REMOVE SIGN PANEL - TYPE 1	SQFT	18	18	
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	195	195	
	78300201	PAVEMENT MARKING REMOVAL - GRINDING	SQFT	390	390	
	80500100	SERVICE INSTALLATION, TYPE A	EACH	1	1	
LTYITEM		SERVICE INSTALLATION, THEA	LACT			

	CONSTRUCTION CODE			
	100% STATE			
				TRAFFIC SIGNALS
CODE NO	ITEM	UNIT	TOTAL	0021 URBAN
				URBAN
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	549	549
			3.	
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	206	206
81028250	UNDERGROUND CONDUIT, GALVANIZED STEEL, 5" DIA.	FOOT	126	126
			£2.	
81028330	UNDERGROUND CONDUIT, PVC, 1 1/4" DIA.	FOOT	201	201
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	89	89
			r:	
81028370	UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	48	48
81028400	UNDERGROUND CONDUIT, PVC, 5" DIA.	FOOT	8	8
81400100	HANDHOLE	EACH	7	7
81400300	DOUBLE HANDHOLE	EACH	1	1
84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1	1
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	1
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1	1
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1885	1885
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1576	1576
				911

* SPECIALTY ITEM

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PLOT DATE = 2/5/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES						
F.A.P. 785 (IL 111 / 140) & FRANKLIN AVE / THELMA AVE.						
SCALE:	SHEET	OF 1	1 SHEETS	STA.	TO STA.	

SECTION		COUNTY	TOTAL SHEETS	SHE
132-4TS		MADISON	11	3
		CONTRACT	NO. 76	Г77
ILLINOIS	FED. AII	D PROJECT		

REV - MS

	CONSTRUCTION CODE				
	100% STATE				
				TRAFFIC SIGNALS	
CODE NO	ITEM	UNIT	TOTAL	0021 URBAN	
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	3713	3713	
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	38	38	
				2	
87700240	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1	1	
97700260	CTEEL MACT ADM ACCEMBLY AND DOLE 44 ET	FACU	1	1	
87700260	STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	-	1	
87700320	STEEL MAST ARM ASSEMBLY AND POLE, 55 FT.	EACH	2	2	
				_	
87800200	CONCRETE FOUNDATION, TYPE D	FOOT	3	3	
,				2	
87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	56	56	
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4	4	
				<u>.</u>	
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6	6	
88040110	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	4	4	
1 222.0110				'	
88040120	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	4	4	
88200510	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	10	10	
88600100	DETECTOR LOOP, TYPE I	FOOT	2094	2094	
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	7886	7886	

	CONSTRUCTION CODE			
	100% STATE			
CODE NO	ITEM	UNIT	TOTAL	TRAFFIC SIGNALS 0021 URBAN
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	20	20
89502380	REMOVE EXISTING HANDHOLE	EACH	6	6
89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1	1
		1	to e	· :
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	5	5
X0350810	BOLLARD REMOVAL	EACH	2	2
			T):	
X4404000	PARKING LOT PAVEMENT REMOVAL	SQYD	165	165
X8950105	REMOVE EXISTING TRAFFIC CONTROLLER AND CABINET	EACH	1	1
Z0013798	CONSTRUCTION LAYOUT	LSUM	1	1
		20 4		5

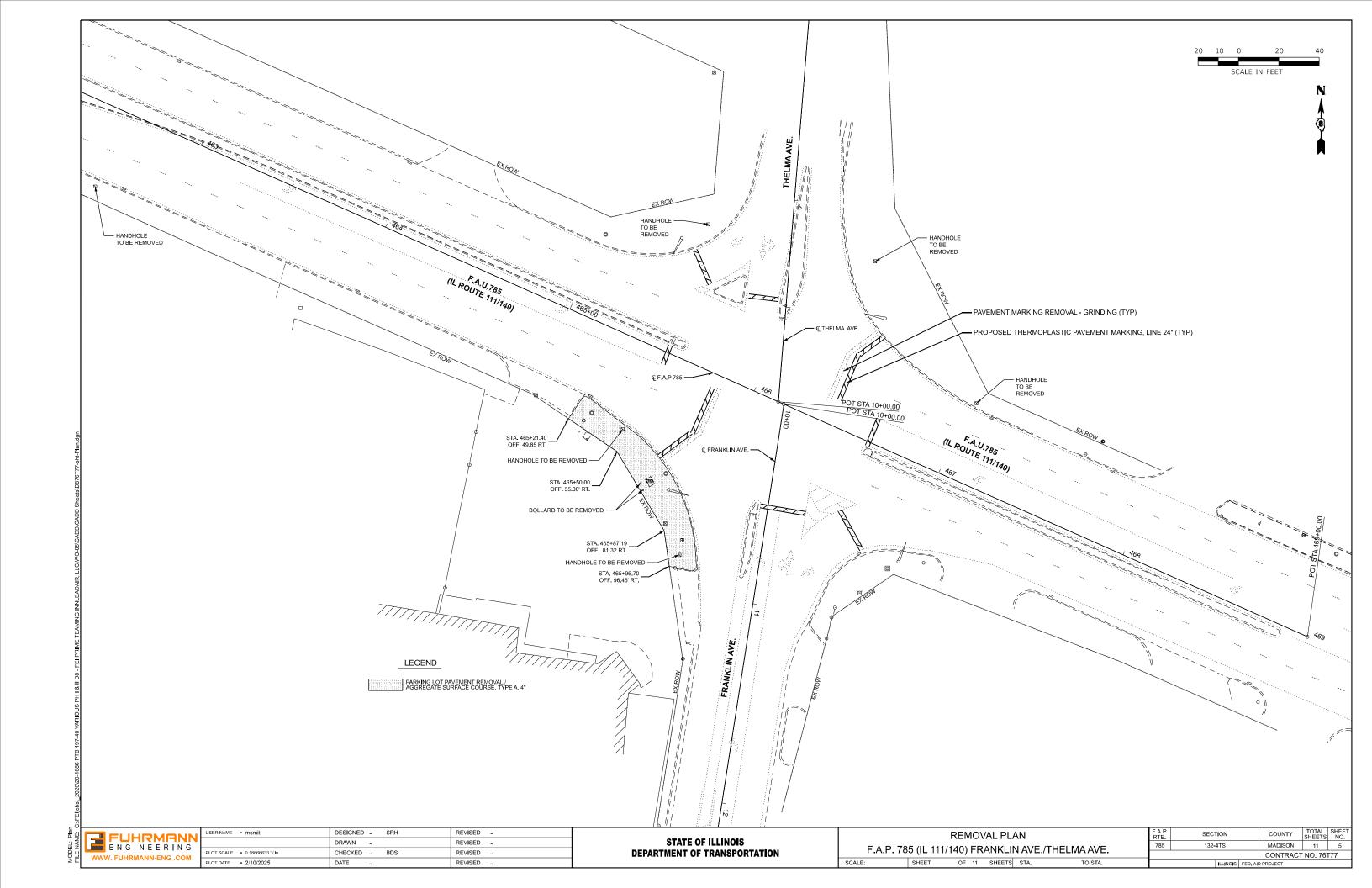
* SPECIALTY ITEM

* SPECIALTY ITEM

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TRAFFIC SIGNAL LEGEND REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT RREC PVCC POLYVINYL CHLORIDE CONDUIT GSC GALVANIZED STEEL CONDUIT 4 EXISTING TRAFFIC SIGNAL MAST ARM EXISTING HANDHOLE \square EXISTING DOUBLE HANDHOLE EXISTING DETECTOR LOOP \bowtie EXISTING CONTROLLER 0 EXISTING STREET NAME SIGN/TRAFFIC SIGN ---EXISTING SERVICE INSTALLATION EXISTING CONDUIT PROPOSED TRAFFIC SIGNAL MAST ARM PROPOSED HANDHOLE

PROPOSED DOUBLE HANDHOLE
PROPOSED DETECTOR LOOP

ELECTRICAL GENERAL NOTES

PROPOSED CONDUIT: "T" TRENCH, "P" PUSH, SIZE SPECIFIED

- 1. ALL VEHICLE SIGNAL HEADS SHALL BE POLYCARBONATE AND HAVE 12" L.E.D. SECTIONS. ALL MOUNTING HARDWARE, SIGNAL POSTS, AND BASES SHALL BE UNPAINTED ALUMINUM. ALL BOLTS, SCREWS, NUTS AND WASHERS SHALL BE STAINLESS STEEL. ANTI-FREEZE PASTE COMPOUND SHALL BE BE USED ON ALL MOUNTING HARDWARE FIELD CONNECTIONS.
- 2. ALL MAST ARM MOUNTED SIGNAL HEADS SHALL HAVE BACKPLATES. BACKPLATES SHALL BE PLASTIC WITH YELLOW.
- 3. THE LOCATION OF MAST ARM SUPPORTS SHALL BE APPROVED BY THE ENGINEER BEFORE FOUNDATIONS ARE CONSTRUCTED. MAST ARM POLES SHALL BE LOCATED A MINIMUM OF 10 FEET FROM THE EDGE OF PAVEMENT OR 2 FEET FROM THE EDGE OF THE SHOULDER, WHICHEVER DISTANCE IS GREATER. IN CURBED SECTIONS, THE MAST ARM POLES SHALL BE LOCATED A MINIMUM OF 5 FEET FROM THE FACE OF CURB. THESE DISTANCES ARE TO THE NEAR FACE OF THE MAST ARM POLE. ALL OF THE MAST ARMS SHALL BE GALVANIZED.
- 4. ALL TRAFFIC CABLES SHALL BE #14 AWG STRANDED COPPER UNLESS OTHERWISE SPECIFIED. TERMINAL ENDS SHALL HAVE CRIMPED-ON FORK TONGUE CONNECTORS.
- 5. CALL DELAY SHALL NOT FUNCTION WHEN THE RELATED PHASES ARE IN THE GREEN MODE.
- 6. ALL HANDHOLES SHALL BE CAST-IN-PLACE PORTLAND CEMENT CONCRETE (PER ARTICLE 873.03(B)). THE CAST IN PLACE LEGEND IN THE COVER SHALL BE "TRAFFIC SIGNALS". SLOPE HANDHOLE COVERS TO MATCH PROPOSED GRADE ELEVATIONS.
- 7. ALL UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY ATTEMPT TO CONSTRUCT ANY COMPONANT OF THE VARIOUS TRAFFIC SIGNAL INSTALLATION. THE DEPARTMENT IS NOT A MEMBER OF JULIE AND DOES NOT LOCATE ITS OWN FACILITIES (SUCH AS UNDERGROUND CONTUIT AND/OR CABLE FOR TRAFFIC SIGNALS OR HIGHWAY LIGHTING). THE APPLICANT, AT HIS/HER OWN EXPENSE, MUST OBTAIN THE SERVICES OF A QUALIFIED ELECTRICAL CONTRACTOR TO LOCATE SUCH STATE-OWNED FACILITIES.
- 8. CABLE MARKING TAPE SHALL BE INCLUDED WITH THE PAY ITEM "UNDERGROUND CONDUIT" AND INSTALLED PER ARTICLE 810.04 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- A 1/4" NYLON PULL ROPE SHALL BE FURNISHED AND INSTALLED IN ALL SIGNAL CONDUITS, THIS WORK SHALL BE INCLUDED WITH THE CONDUIT PAY ITEM.

DETECTOR LOOP REQUIREMENTS AND CALCULATIONS FOR FAP 785 (ILLINOIS 111/140) AND THELMA AVENUE / FRANKLIN AVENUE

LOOP	PHASE (Θ)	LOOP SIZE (FT)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (4H)	CALCULATED RESISTANCE OHMS (Ω)
1. WB LT CD A	1	6'X50'(Q)	3-6-3	864.1	3.37
2. WB THRU CD A	6	6'X50'(Q)	3-6-3	861.5	3.31
3. WB THRU CD B	6	6'X50'(Q)	3-6-3	859.3	3.26
4. WB THRU CCO A	6	6'X6'	7	503.8	3.55
5. WB THRU CCO B	6	6'X6'	7	501.1	3.49
*					
6. EB LT CD A	5	6'X50'(Q)	3-6-3	806.2	2.05
7. EB THRU CD A	2	6'X50'(Q)	3-6-3	804.0	2.00
8. EB THRU CD B	2	6'X50'(Q)	3-6-3	800.7	1.93
9. EB THRU CCO A	2	6'X6'	5	247.7	2.10
10. EB THRU CCO B	2	6'X6'	5	244.9	2.03
11. SB THRU CD A	4	6'X50'(Q)	3-6-3	827.4	2.53
12. SB RT CD A	4	6'X40'(Q)	3-6-3	674.7	2.17
13. NB LT CD A	8	6'X50'(Q)	3-6-3	832.9	2.66
14. NB THRU CD A	8	6'X50'(Q)	3-6-3	829.8	2.59
15. NB RT CD A	8	6'X40'(Q)	3-6-3	675.4	2.19

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FILE NAME:	FUHRMANN ENGINEERING
FIE	WWW. FUHRMANN-ENG .COM

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	DRAWN -	REVISED -
PLOT SCALE = 0.166666 ' / in.	CHECKED - BDS	REVISED -
PLOT DATE = 1/22/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL DETAILS

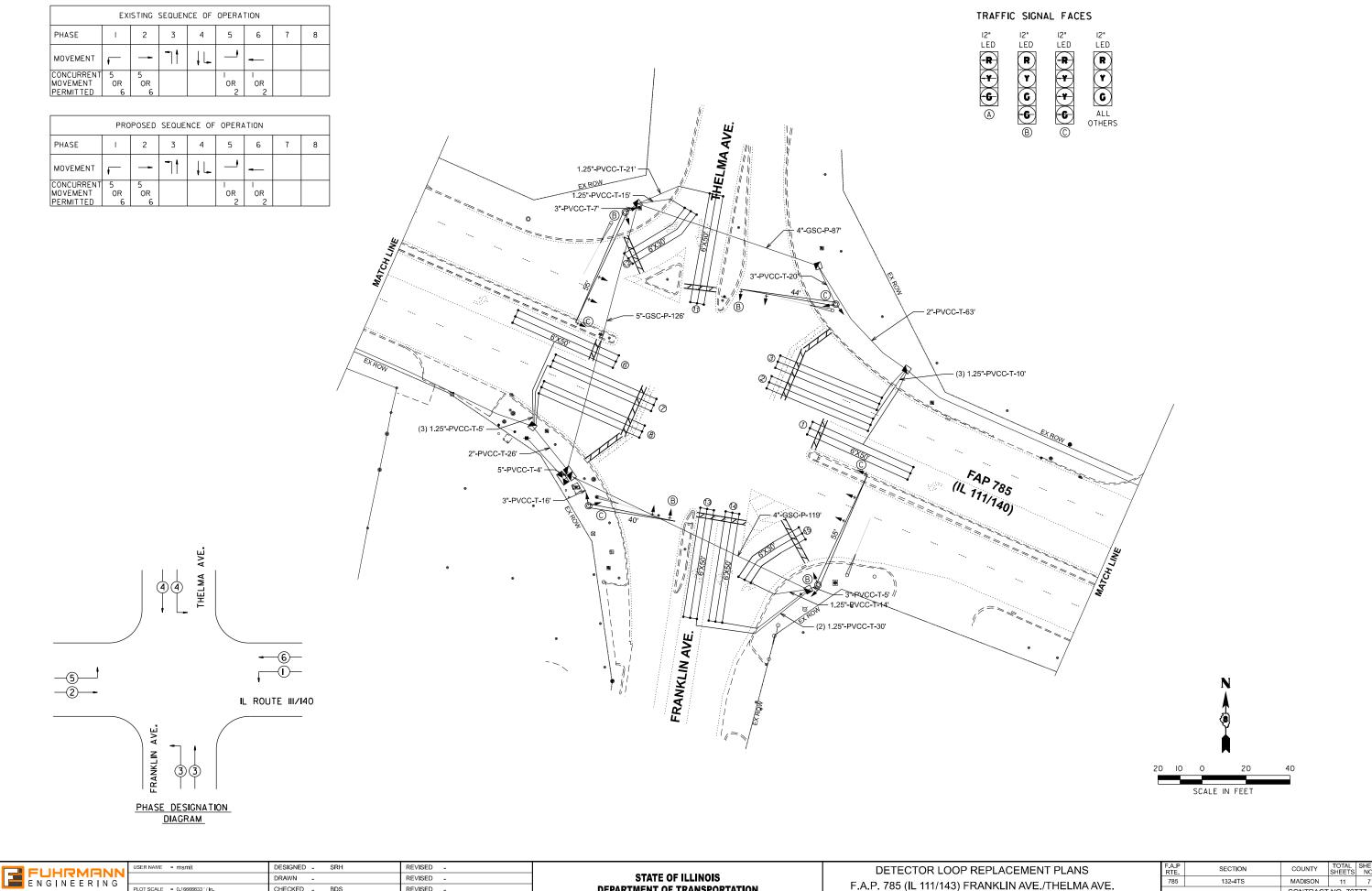
F.A.P. (IL ROUTE 111/140) & THELMA AVE./FRANKLIN AVE.

E: SHEET OF 11 SHEETS STA. TO STA.

F.A.P. SECTION COUNTY TOTAL SHEETS NO.

785 132-4TS MADISON 11 6

CONTRACT NO. 76T77



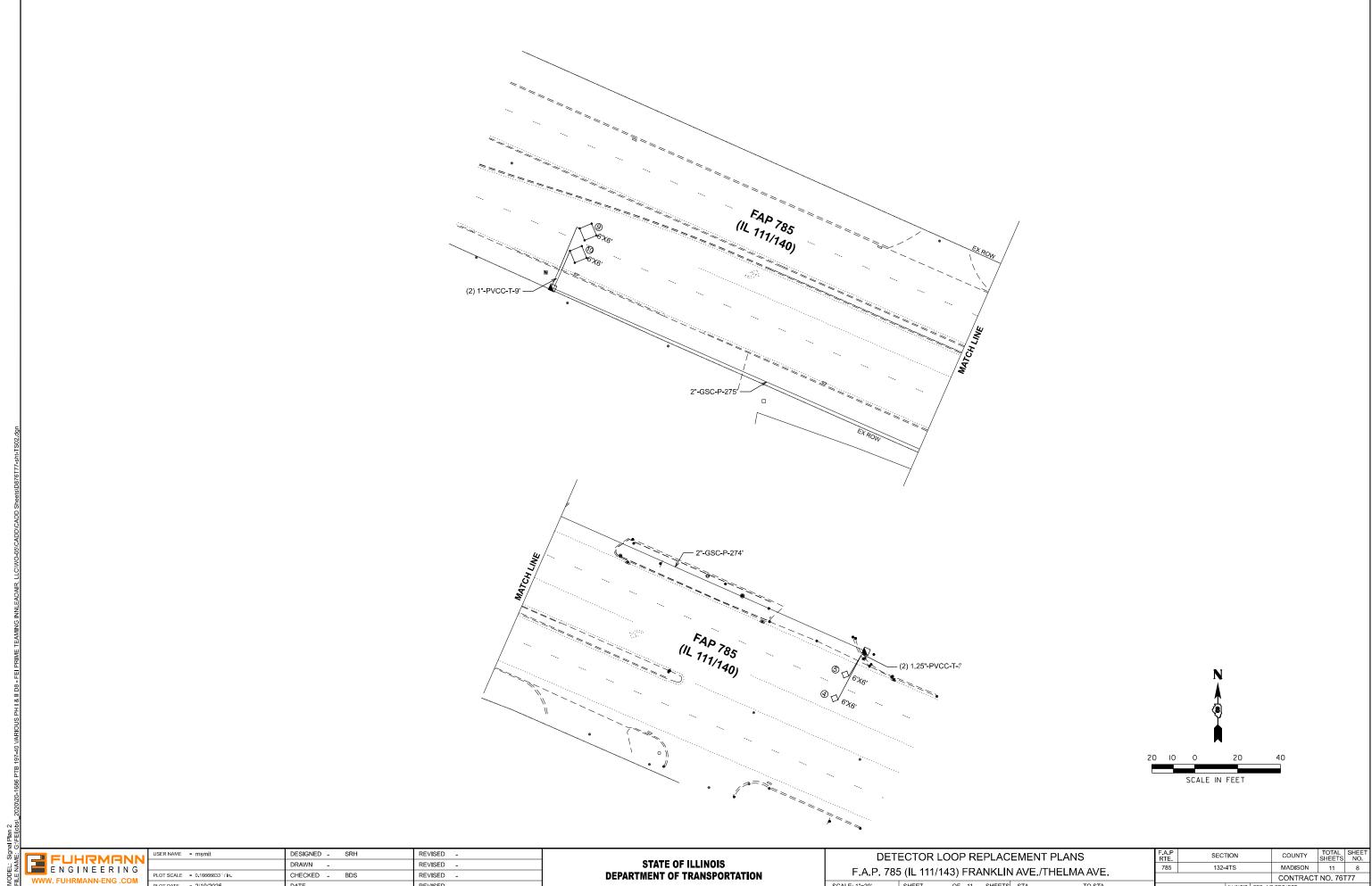
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	PLOT DATE = 2/10/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: 1"=20'

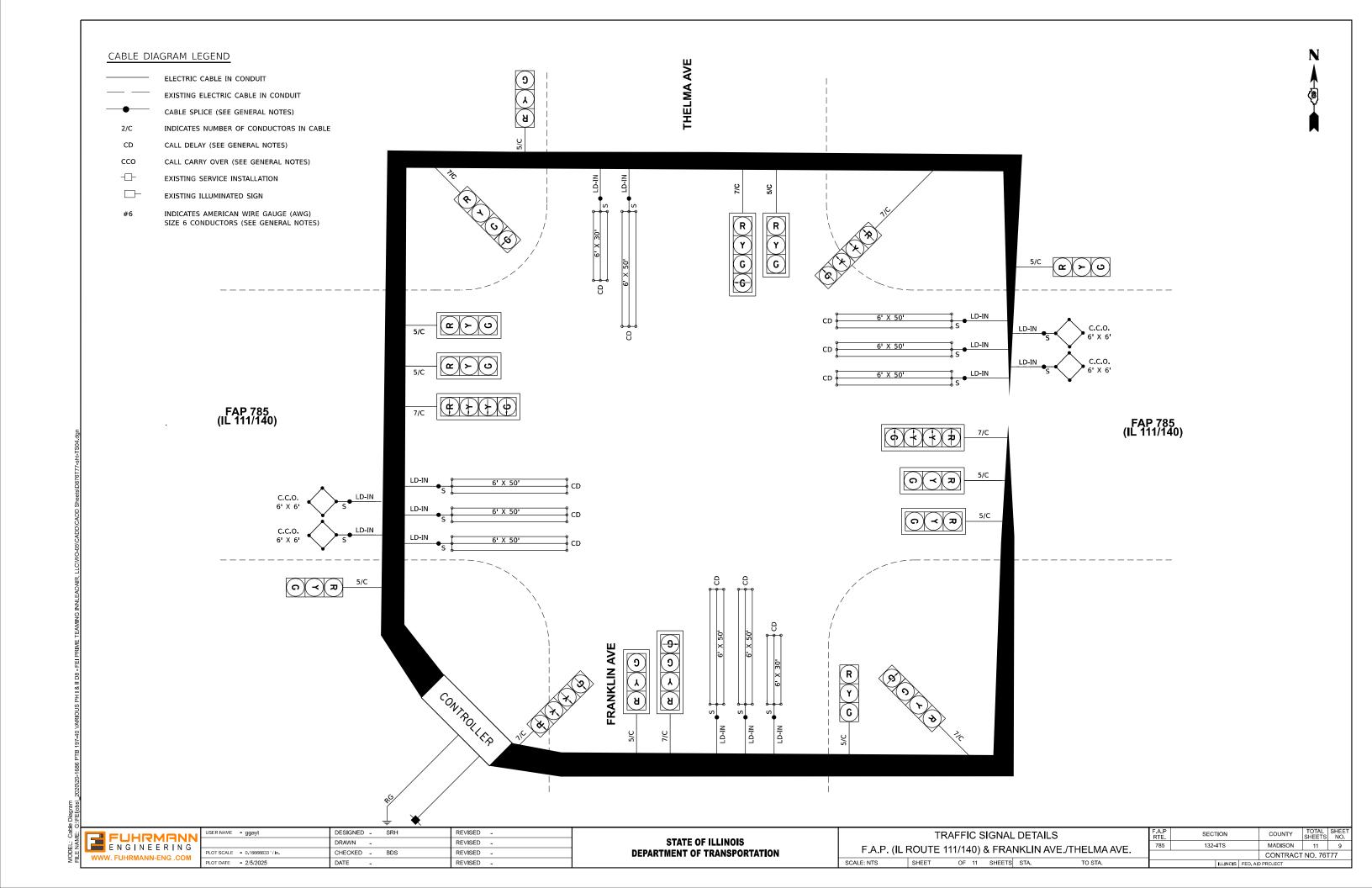
ΕT	ECTOR L	.00P	EPLACI	EMEN	T PLANS	F.A.P RTE				COUNTY	TOTAL SHEETS	SHEET NO.	
79	785 (JL 111/143) FRANKLIN AVE./THELMA AVE.							132-4TS		MADISON	11	7	
10.) (IL 111/	143) 1	177	TININE	AVL.	TITLLIVIA AV L.					CONTRACT	NO. 761	77
	SHEET	OF	11	SHEETS	STA.	TO STA.		ı	LLINOIS	FED. AID	PROJECT		



PLOT SCALE = 0.16666633 '/ in. CHECKED - BDS REVISED -PLOT DATE = 2/10/2025 DATE

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.P. 785 (IL 111/143) FRANKLIN AVE./THELMA AVE. SCALE: 1"=20' SHEET OF 11 SHEETS STA.





SOIL BORING LOG

Page 1 of 1

ROUTEFAP 78	DES	CRIPTION	_	railic	, Sigila	ir ir	L 111/140 and Franklin/ Cottage Hills	LOGGED BY	Larry Ford
SECTION 13	2-4TS-1	LO	CATI	ON _	NE 1/4	, SEC	. 10, TWP. 5N, RNG. 9V	V, 3 PM	
COUNTY Madi	sonl	DRILLING	ME	THOD	-		Hand Auger	HAMMER TYPE	
STRUCT. NO	SW Quad		D E P T H	B L O W S	U C S Qu	M O I S T	Surface Water Elev. Stream Bed Elev. Groundwater Elev.: First Encounter Upon Completion	ft	
Ground Surface Ele			(ft)	(/6")	(tsf)	(%)	After Hrs.	ft	
Brown Silty CLAY wit Rock	h Limestone	e 493.9	_		1.0	13			
Brown and Gray Silty	CLAY				1.0	10			
,			_		1.0	34			
			_		0.7	32			
		490.9	-5		0.2	20			
Brown Clayey SILT			_		0.2	28			
			_		0.5	27			
			_		0.7	26			
					0.8	26	,		
					1.0	26			
			-10		1.0	26			
					1.2	25			
			_		1.5	24			
		483.9							
END OF HAND AUG	ER		_						
Pocket Penetrometer Qu	used for		_						
			15						
			_						
				1					
			1	1					

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

BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 1

Date <u>5/23/88</u>

ROUTE FAP 785 DESCR	RIPTION	1	Traffic	Signa	als at II in	_ 111/140 and Franklin/ Cottage Hills	LOGGED BY	Larry Ford
SECTION 132-4TS-1	_ LO	CATI	ON _	NE 1/4	, SEC	. 10, TWP. 5N, RNG. 9V	/, 3 PM	
COUNTY Madison DF	RILLING	ME	THOD	_		Hand Auger	HAMMER TYPE	
STRUCT. NO		D E P	B L O	U C S	M 0 -	Surface Water Elev Stream Bed Elev	ft ft	
BORING NO. 2 SE Quad Station 466+93 Offset 56.00ft Right	_	H	S	Qu .	S T	Groundwater Elev.: First Encounter Upon Completion	ft	
Ground Surface Elev. 496.9			(/0")	(tsf)	(%)	After Hrs.	ft	
LIMESTONE Rock	496.4	- 1_		NC 1.0	13			
Brown and Gray SILT				1.0	23			
	494.9	_		1.0	20			
Brown and Gray Silty CLAY				2.0	24			
		_		2.0	25			
		_		1.3	24	1		
		5		1.2	25			
		_		1.0	27			
		_		1.0	24			
		_				,		
		-		0.7	19			
		-10		0.5	25			
				0.5	26			
		_		0.7	25			
	484.9							
END OF HAND AUGER		_						
Pocket Penetrometer used for Qu								
		-15						
		_						
						1		
		_						
		_						
		-20						

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

BBS, from 137 (Rev. 8-99)



USER NAME = bschm	DESIGNED - SRH	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 '/in.	CHECKED - BDS	REVISED -
PLOT DATE = 11/1/2024	DATE -	REVISED -

SCALE:

	S	OIL	BORIN	GS		F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
						785	132 - 4TS	MADISON	11	10
								CONTRACT	NO. 761	77
SHEET	OF	11	SHEETS	STA.	TO STA.		ILLINOIS FED. AII	D PROJECT		



SOIL BORING LOG

Page 1 of 1

Division of Highways Illinois Department of Transport	tation			Sione	No at II	_ 111/140 and Franklin	(Tholmo		5/23/88
ROUTE FAP 785 DESCRI	PTION	ı	Hank	Jigi iz	in	Cottage Hills		LOGGED BYL	arry Ford
SECTION 132-4TS-1	LO	CATI	ON _	NE 1/4	, SEC	. 10, TWP. 5N, RNG. 9\	N, 3 PM		
COUNTYMadison DRI	LLING	ME	THOD			Hand Auger	HAMMER	TYPE	
STRUCT. NO. Station 3 NE Quad Station 466+52 Offset 55.00ft Left Ground Surface Elev. 495.4	_	D E P T H (ft)	O W S	U C S Qu (tsf)	M O I S T (%)	Surface Water Elev. Stream Bed Elev. Groundwater Elev.: First Encounter Upon Completion After Hrs.	481.9	ft <u>¥</u> ft	
Brown Silty CLAY		_		1.0	6			=	
BIOWIT SIRY OLAT	ı	_		1.5	14				
		_		2.2	17				
	q	_		1.0	19				
		_		1.2	23				
		5		1.0	24				
	100.4			1.0	25				
Brown Very Silty CLAY	488.4			0.6	25				
one in the contract of the con				0.3	26				
				0.2	26				
		10		0.2	24				
	6			0.5	21				
				0.7	20				
	481.4	<u>Y</u> _		1.0	26				
END OF HAND AUGER		-15							
Pocket Penetrometer used for Qu									

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

BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

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ROUTE FAP 785 DESCI	RIPTION	۱	Hann	Signa	ir	L 111/140 and Franklin Cottage Hills		LOGGED BY	Larry Ford
SECTION 132-4TS-1	LO	CATI	ON _	NE 1/4	1, SEC	. 10, TWP. 5N, RNG. 9\	N, 3 PM		
COUNTY Madison D	RILLING	ME	THOD			Hand Auger	_ HAMMER	TYPE	
STRUCT. NO. Station 4 NW Quad Station 465+48 Offset 55.00ft Left		DEPTH	B L O W S	U C S Qu	M O I S T	Surface Water Elev. Stream Bed Elev. Groundwater Elev.: First Encounter Upon Completion	479.1	_ ft <u>▼</u>	
Ground Surface Elev. 493.1		(ft)	(/6")	(tsf)	(%)	After Hrs.		ft	6
Brown and Gray Silty CLAY with Crushed Limestone		_		0.7	7				
	491.1	-		0.0	'-				
Brown Silty CLAY				1.0	13				
Brown and Gray Silty CLAY	489.6	_		1.0	20				
(Organic Top Soil)	488.6			1.1	22				
Brown Silty CLAY		<u>5</u>		1.0	15				
				2.0	24	-			
				1.8	26	-			
				1.2	26				
		-10		0.5	24				
				0.2	29	1			
		_		0.8	25				
				0.7	24				
				1.2	26				
	479.1	<u>v</u>		1.2	20				
END OF HAND AUGER		-15							
Pocket Penetrometer used for		_							
Qu									
		·-							

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

BBS, from 137 (Rev. 8-99)

FUHRMANN
ENGINEERING
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USER NAME = bschm	DESIGNED - SRH	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / in.	CHECKED - BDS	REVISED -
PLOT DATE = 11/1/2024	DATE -	REVISED -

SOIL BORINGS						F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
						785	132 - 4TS	MADISON	11	11
						CONTRACT NO. 76T77				
SCALE:	SHEET	OF 11	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				