06-10-2016 LETTING ITEM 130

FOR INDEX OF SHEETS & STANDARDS, SEE SHEET NO. 2

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STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED **HIGHWAY PLANS**

F.A.I. 255 (I-255) SECTION DIST 8 ITS 2016-1 **ST. CLAIR COUNTY**

ITS COMMUNICATION, DETECTION AND SURVEILLANCE DEVICES ON I-255 FROM 0.6 MI. N. OF IL 15 (MP 17.3) TO MOUSETTE DR. N. RAMPS (MP 15.1)

C-98-061-15 ACCMI - 0255 (404)





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

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

PROJECT ENGINEER: HERVE GELIN (618) 346-3179 SQUAD LEADER: MICHAEL PRESTON (618)-346-3143 LIAISON ENGINEER: SAHAH PRATT 618) 346-3285

CONTRACT NO. 76J19

1	F.A.I. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
	255	DIST 8 ITS 20	16-1	ST. CLAIR	40	1
			ILL INQIS	CONTRAC	T NO.	76J19





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

GENERAL NOTES

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 - CCTV AND RADAR VEHICLE DETECTION 7 MOUNTING DETAIL
 - SERVICE INSTALLATION AND POLE MOUNTED 8. CAMERA LOWERING DEVICE DETAILS
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- 15. FIBER NETWORK DETAIL 16. FIBER TERM-SPL SUMMARY & OPTICAL FOURPMENT SCHEDULE
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- OVERHEAD SIGN STRUCTURES ALUMINUM TRUSS 26. - 38, SUPPORT, WALKWAY, HANDRAIL AND FOUNDATION DETAILS
- 39. & 40. SOIL BORING LOGS

	<u>STANDARDS</u>	
000001-06	001801~02	001006
630001-10	701101-05	701106-02
701400-08	701401-09	701411-09
701421-07	701428-01	701446-0
701456-03	701501-06	701901-05
802001-01	814001-03	814006-0
836001-02	010001-02	0/0001-10

	LEGEND
93	EDGE OF PAVEMENT
FO	FIBER OPTIC CABLE IN CONDUIT
IPP	INLET AND PIPE PROTECTION
MD	MULTI-DUCT
PVC	POLYVINYL CHLORIDE CONDUIT
SPBGR	STEEL PLATE BEAM GUARDRAIL
	EXISTING RADAR VEHICLE DETECTOR
	EXISTING RADAR VEHICLE DETECTOR
\bigcirc	EXISTING JUNCTION BOX
22	EXISTING DOUBLE HANDHOLE (EXDHH**)
\boxtimes	EXISTING CONTROLLER
<u></u>	EXISTING CONDUIT
- D-	EXISTING SERVICE INSTALLATION
	PROPOSED HANDHOLE (HH**)
	PROPOSED DOUBLE HANDHOLE (DHH**)
-#-	PROPOSED SERVICE INSTALLATION

- PROPOSED CONDUIT (SEE GEN. NOTE REGARDING MULTI-DUCT CONDUIT)
- PROPOSED JUNCTION BOX, SIZE SPECIFIED
- PROPOSED CCTV

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- 1. ALL MATERIALS SHALL CONFORM TO SECTION 106 OF THE STANDARD SPECIFICATIONS FOR CONTROL OF MATERIALS.
- 2. THE JUNCTION BOXES SHALL BE UNPAINTED ALUMINUM SHEET METAL UNLESS OTHERWISE SPECIFIED ON THE PLANS.
- 3. UNDERGROUND CABLE MARKING TAPE SHALL BE INSTALLED WITH ALL UNDERGROUND CONDUIT IN ACCORDANCE WITH ARTICLES 810.04 AND 1066.05 OF THE STANDARD SPECIFICATIONS.
- 4. THE CONTRACTOR SHALL NOT DRILL ANY HOLES IN THE BEAMS, DECK, OR SUBSTRUCTURE OF THE BRIDGE, UNLESS APPROVED BY THE ENGINEER.
- 5. ALL GROUND RODS SUPPLIED FOR THIS 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.
- 6. COORDINATION WITH THE DEPARTMENT'S BUREAU OF OPERATIONS IS REQUIRED BEFORE ANY TRENCHING SHALL BE DONE TO LOCATE HIGHWAY LIGHTING/PUMP STATION/ITS FACILITIES AND TO COORDINATE OTHER FIELD ACTIVITIES.
- 7. BENDING RADIUS OF FIBER OPTIC CABLE SHALL NOT BE LESS THAN "15 TIMES THE CABLE DIAMETER.
- 8. ALL HANDHOLES SHALL BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE PER SECTION 814 OF THE STANDARD SPECIFICATIONS, THE LEGEND ON THE COVER SHALL BE "ITS". SLOPE HANDHOLE TO MATCH FINAL GRADE ELEVATION.
- 9. 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 CONDULT OF THE TYPE AND SIZE SPECIFIED.
- 10. ILLINOIS STATE LAW REQUIRES A 48 HOUR NOTICE BE GIVEN TO UTILITIES BEFORE DIGGING, FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING JOINT UTILITY LOCATING INFORMATION EXCAVATORS (J.U.L.I.E) OR FOR NON-MEMBERS. THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

*AMEREN ILLINOIS (GAS & ELECTRIC) •AT&T ILLINOIS (COMMUNICATIONS) CITY OF CENTREVILLE (WATER AND SANITARY SEWER) •CHARTER COMMUNICATIONS, INC. (CABLE TV) .COMMONFIELDS OF CAHOKIA PUBLIC WATER DISTRICT (WATER AND SANITARY SEWER) .ILLINDIS AMERICAN WATER COMPANY (WATER) •LEVEL 3 COMMUNICATIONS, LLC (COMMUNICATIONS) *VERIZON BUSINESS (COMMUNICATIONS) ZAYO FIBER SOLUTIONS (COMMUNICATIONS)

MEMBERS OF JULLIE. ARE INDICATED BY AN ".". THE (J.U.L.I.E.) SYSTEM NUMBERS ARE (800)-892-0123 AND 811. NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.

- 11. ALL FIBER BACKBONE CONDUIT SHALL BE PLACED A MINIMUM OF 5' FROM EDGE OF PAVEMENT, FINAL LOCATION SHALL BE APPROVED BY THE ENGINEER.
- 12. THE CONTRACTOR SHALL BE REQUIRED TO PERFORM FIELD MEASUREMENTS TO VERIFY DIMENSIONS OF EXISTING STRUCTURES PRIOR TO ORDERING MOUNTING HARDWARE. CONDUIT ATTACHED TO STRUCTURE SHALL BE INSTALLED PER THE APPLICABLE PORTIONS OF SECTION 811 REGARDING SUPPORTS, SUSPENSION, FASTENERS AND HARDWARE
- 13. FIBER OPTIC CABLE PULL TENSION WILL BE LIMITED BY PROVIDING JUNCTION BOXES OR HANDHOLES AT INTERVALS NO GREATER THE 750 FEET.
- 14. A 1/4" DIA. 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.
- 15. THE CONTRACTOR SHALL PAY ATTENTION TO SECTION 107 "LEGAL REGULATIONS AND RESPONSIBILITY TO PUBLIC" OF THE STANDARD SPECIFICATIONS. IN PARTICULAR ARTICLE 107.01 "LAWS TO BE OBSERVED" AND ARTICLE 107.04 "PERMITS AND LICENSES".
- 16. THE COST TO REMOVE AND REPLACE ANY EXISTING RIP RAP, GUARDRAIL AND GUARDRAIL MARKERS ENCOUNTERED DURING INSTALLATION SHALL BE INCLUDED IN THE UNIT PRICE OF THE ASSOCIATED "UNDERGROUND CONDUIT, (SIZE & TYPE, AS SPECIFIED)".

17.	INLET	AND	PIP	E PR	OTE	CTI	ON	(IPP
	WO	RKZO	NES	ONLY	Ý. A	NN -	"AC	TIVE
C	ONTRA	CTOR	IS	CURF	EN	٢LY	INS	STAL
P	ROTEC	TION	PLA	CEME	NT	IN	AN	"IN
P	ERMIS	SION.						

18. IN ADDITION TO BACKFILLING AND MECHANICALLY COMPACTING CONDUIT TRENCHES PER ARTICLE 810.04(A) OF THE STANDARD SPECIFICATIONS, SUITABLE AND SUFFICIENT BACKFILL MATERIAL SHALL BE ADDED ABOVE THE TRENCH TO TAKE CARE OF ANTICIPATED FINAL GRADE SETTLEMENT, AS DIRECTED BY THE ENGINEER.

- 201.10(A) OF THE STANDARD SPECIFICATIONS.
- ASSOCIATED CONDUIT WITH NO ADDITIONAL COMPENSATION ALLOWED.
- TURNS, OR OTHER AREAS AS SPECIFIED BY THE FIELD ENGINEER.

FILE NAME =	USER NAME = prestonme	DESIGNED -	REVISED -			· · · · · · · · · · · · · · · · · · ·	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
pwi\\IL@84E8I0INTEG.illinoi#.gov:PWIDOT\Oo	uments/1007 Offices/District 8/Projects/087	DRAWNDate CADahoets 0876J19-sht-itsplo	-REVISED -	STATE OF ILLINOIS	l Gi	ENERAL NOTES, LEGEND AND COMMITMENTS	255	DIST 8 ITS 2016-1	ST. CLAIR	40 2
	PLOT SCALE = 100.0000 1/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION					CONTRAC	T NO. 76J19
	PLOT DATE * 4/11/2015	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS STA. TO STA.		ILLINDIS FED. AI	D PROJECT	

POI-STA 761+30) SHALL BE PLACED IN "ACTIVE" " WORKZONE IS DEFINED AS AN AREA WHERE THE LLING MULTI-DUCT CONDUIT. INLET AND PIPE ACTIVE" WORKZONE SHALL BE WITH THE ENGINEER'S

19. CLEAR VEGETATION PER ARTICLES 201.01(A), 201.03, 201.08, 201.09 AND

20. 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 INCLUDED IN THE UNIT COST OF

21. MARKING OF THE FIBER OPTIC IN-GROUND CONDUIT RUNS WILL BE DONE TO PREVENT FUTURE DAMAGE TO THE FIBER BACKBONE. THE FIBER OPTIC UTILITY MARKER WILL BE PLACED EVERY 300 FEET ALONG THE FIBER RUN AND AT OTHER IMPORTANT JUNCTIONS.

			BO'l FED 20'l STATE URBAN OO21	Sl	JMMAF	RY OF	QUA	NTIT	IES			80% FED 20% STATE URBAN 0021			
	SUMMARY OF QUANTITI	ES		CON	STRUCTION TYPE	CODE 0021		SUMMA	RY OI	- QUANTITIE	S		CON	STRUCTION TYPE	CODE-0021
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	IL 15	DMS	RACEWAY	CODE NO		IT	EM	UNIT	TOTAL QUANTITIES	IL 15	DMS	FLO. RACEWAY
X 0325487	WIRED COMMUNICATION DATA CONVERTOR	EACH	1	1			67000400	ENGINEER'	S FIELD OFF	ICE, TYPE A	CAL MO	6			6
YHOOLEL	CONDUIT ATTACHED TO STRUCTURE, PVC, 4"	FOOT	1165			1165	67100100	MOBILIZAT	ION		L SUM	1			1
	DIA, MULTI-DUCT														
							70100310	TRAFFIC C	DNTROL AND	PROTECTION,	LSUM	1			1
81100586	CONDUIT ATTACHED TO STRUCTURE, 3" DIA.,	FOOT	120		120			STANDARD	(01421						
							70100420	TRAFFIC C	ONTROL AND	PROTECTION.	EACH	8			8
25000210	SEEDING, CLASS 2A	ACRE	0.85			0.85		STANDARD	701411						
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	77			77	70100815	TRAFFIC C	DNTROL AND	PROTECTION,	L SUM	1			1
		· · · · · · · · · · · · · · · · · · ·						STANDARD	701446						
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	77			77									
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	77			77	70100825	TRAFFIC CO	ONTROL AND	PROTECTION,	LSUM	1			1
														· · · · · · · · · · · · · · · · · · ·	
25100105	MULCH, METHOD 1	ACRE	0.85			0.85	70102620	TRAFFIC CO	ONTROL AND	PROTECTION,	LSUM	1			1
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	85	85				STANDARD	701501						Anartika (anartika (a
							73300300	OVERHEAD	SIGN STRUCT	URE - SPAN, TYPE	FOOT	90		90	
28000500	INLET AND PIPE PROTECTION	EACH	Yee a second sec			1		TE A (5'-(o" x 7'-0")					
44001980	CONCRETE BARRIER REMOVAL	FOOT	42		42		73301810	OVERHEAD	SIGN STRUCT	URE WALKWAY, TYPE A	FOOT	59.3		59.3	
												111/2			
• 63301210	REMOVE AND REERECT STEEL PLATE BEAM	F 001	200		200		x 13400200	UKILLED SI	TAP I CONCRE	IE FUUNUATIONS		76.5		46.3	
	UDARURAIL, HIFE A						80300100	LOCATING I	JNDERGROUND	CABLE	FOOT	8579			85
63700275	CONCRETE BARRIER, DOUBLE FACE, 42" HEIG	HT FOOT	35		35										
							80500100	SERVICE I	STALLATION	, TYPE A	EACH	1		1	
* SPECIAL	USER NAME 2 prostoome DESIGNED - USER NAME 2 prostoome DESIGNED - Unost.gov/PVIDDT\Dobuments\1007 Offices\District 8\Projects\D2FLDRKSEDbate\D	ADehpata\DB76J19-aht-sead	REVISED -			STATE OF I	ILLINOIS		,	SUMMARY OF OUA	NTITIES		F.A.I. SECI		TOTAL SHI
	PLOT SCALE = 100.0000 / In. CHECKED	· · · · · · · · · · · · · · · · · · ·	REVISED -		DEPAR	TMENT OF T	RANSPORTAT	ION	SCAL F.	CUEFT OF SUFETS	ςτ _λ τ	0 STA	<u>end</u> histeri	CON	TRACT NO. 76J

	F.A.I. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
ITIES	255	DIST 8 ITS 2016-1	ST. CLAIR	40	3
			CONTRAC	T NO.	76J19
to sta.		ILLINOIS FED. AL	D PROJECT		

		anna a sua de gué de se a se de se a se	80% FED 20% STATE URBAN 0021	SU	MMAR	Y OF	QUA	NTITIES		80% FED 20% STATE URBAN 0021			
	SUMMARY OF QUANTITIES			CONST	RUCTION TYPE	CODE 0021		SUMMARY OF QUANTITIES		-	CONST	RUCTION TYPE	CODE-0021
CODE NO		UNIT	TOTAL QUANTITIES	IL 15	DMS	F.O. RACEWAY	CODE NO	ITEM	UNIT	TOTAL QUANTITIES	IL 15	DMS	RACEWAY
81028340	UNDERGROUND CONDUIT, PVC. 1 1/2" DIA.	FOOT	945		945		X0325077	FIBER OPTIC UTILITY MARKER	EACH	26		26	
81028370	UNDERGROUND CONDUIT. PVC. 3" DIA.	FOOT	59	16	43		X0325086	CONDUIT ATTACHED TO STRUCTURE, 4" DIA.,	FOOT	255		255	
								FIBERGLASS BULLET RESISTANT, MULTI-DUCT					
81300835	JUNCTION BOX, STAINLESS STEEL, ATTACHED	EACH	2	1		1							
	TO STRUCTURE, 18" X 18" X 10"						X0325476	RADAR VEHICLE DETECTION SYSTEM	EACH	4	1		
81400700	HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	21		2	19	X0325482	REMOVE EXISTING ITS EQUIPMENT	EACH	1	1		
													-
81400720	DOUBLE HANDHOLE, PORTLAND CEMENT	EACH	6			6	X0325485	TRUSS MOUNTED LED DYNAMIC MESSAGE SIGN	EACH	1		1	
	CONCRETE												
							X0326091	LIGHT POLE, STEEL 50 FT. WITH CAMERA	EACH	1	1		
81702130	ELECTRIC CABLE IN CONDUIT. 600V	FOOT	3206		3206			LOWERING SYSTEM					
	(XLP-TYPE USE) 1/C NO. 6												
							X0327096	ETHERNET MODEM	EACH	2		2	
83600300	LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	8	8									
							X7010410	SPEED DISPLAY TRAILER	CAL MO	1	0.2	0.2	0.6
87900200	DRILL EXISTING HANDHOLE	EACH	2	1	1								
							X8102839	UNDERGROUND CONDUIT, PVC, 4" DIA.,	FOOT	7898			7898
89502350	REMOVE AND REINSTALL ELECTRIC CABLE	FOOT	30	30				MULTI-DUCT					
	FROM CONDUIT												
		*					X8630103	CONTROLLER CABINET TYPE III, SPECIAL	EACH	1		1	
X0322227	CLOSED CIRCUIT TELEVISION CAMERA SYSTEM	EACH	1	1									
	· · · · · · · · · · · · · · · · · · ·						X8710075	FIBER OPTIC CABLE IN CONDUIT, 72 COND.	FOOT	3084		3084	
X0325072	MODIFY EXISTING CONTROLLER CABINET TYPE	EACH	1	1				S.M. F.O.					
	A								-				
							X8780105	CONCRETE FOUNDATIONS (SPECIAL)	EACH	1	·····	1	
x0325076	WIDE AREA NETWORK	L SUM	1	0.5	0.5						,		
							20048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1			1
€ ∛∕	<u>.</u>	1	L	¥.		J	(3)		1	•d.	······	k	
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pm//11.084EB1DINTEC.31	PLOT SCALE > 100.8000 '/ in. CHECKED - PLOT OATE < 1/24/2016	5/6JI++*Nt-11*pla	REVISED - REVISED -		DEPAR	TMENT OF T	ANSPORTAT	ION SCALE: SHEET OF SHEETS STA.	100	O STA.	255 DIST 8 ITS	Z016-1 ST. CL CONT INDIS FED. ALD PROJECT	AIR 40 4 RACT NO. 75J19



	TRAFFIC DATA SCHEDULE														
#	1	2	3	4	5	6	7	8	9	10	11				
	MOUSETTE DR.	I-255	I-255 SB	I-255 SB	I-255 SB	I-255 NB	BOND AVE.	I-255 NB	IL 163	I-255 NB	IL 15 EB				
DOAD	то	NB & SB	689+00	то	695+00	701+00	EB & WB	799+20	EB & WB	TO	то				
ROAD	NB I-255	689+00	I-255 SB	MOUSETTE DR.	I-255 SB	I-255 NB	@\$100+00	I-255 NB	E. OF 50TH ST.	IL 15 EB	I-255 NB				
	(RAMP)		695+00	(RAMP)	701+00	762+00	(E. OF I-255)	800+80		(RAMP)	(RAMP)				
YEAR	2016	2016	2016	2016	2016	2016	2016	2016	2016	2016	2016				
ADT (EST.)	3150	50100	24400	3350	24400	26200	5200	26200	2700	6100	1200				
SU/	3.00%	3. 30%	3.50%	2. 70%	3.50%	3.10%	1. 70%	3.10%	4.50%	2.70%	3.60%				
MU%	4.50%	15.70%	16.10%	5.20%	16.10%	15.40%	0.40%	15.40%	4.20%	7.30%	5.50%				

TRAFFIC CONTROL AND PROTECTION SCHEDULE

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
TRAFFIC CONTROL	MOUSETTE DR.	NB I-255	I-255 SB	I-255 SB	MOUSETTE DR.	I-255 SB	I-255 NB	UNDER	I-255 NB	I-255 NB	UNDER	IL 15 EB RMP.	UNDER	I-255 SB RMP.	
AND	то	(RAMP 4)	689+00	695+00	(RAMP 3)	749+00*	762+00	BOND AVE.	799+20	800+80	IL 163		IL 15 EB/	то	TOTAL
PROTECTION	UNDER	то	то	UNDER	то	ΤO	то	то	то	то	то	то	I-255 NB RMP.	EB IL 15	
STANDARDS	NB I-255	I-255 SB	I-255 SB	MOUSETTE DR.	I-255 SB	I-255 NB	BOND AVE.	I-255 NB	I-255 NB	IL 163	UNDER	IL 15 EB/	то	S. OF. BRG.	
	(RAMP 4)	689+00	695+00	(RAMP 3)	749+00*	762+00	100+40	799+20	800+80	E. OF RMP. BRG	. IL 15 EB RMP.	I-255 NB RMP.	I-255 NB		
701101	x	×	×	x	x	х	x	Х	x	x	x	x	x	х	NM
701106	x	x	×	x	х	х	x	х	x	x	x	x	x	х	NM
701400		×	×	×	х	х		х	x					х	NM
701401		0.13	0.13	0.13	0.13	0.13			0.13					0.22	1.00 L SUM
701411		2	1	1	1	1			1					1	8.00 EACH
701421		0.13	0.13	0.13	0.13	0.13			0.13					0.22	1.00 L SUM
701428	x	x	×	x	х	х			x		x		x	х	NM
701446						0.5			0.5						1.00 L SUM
701456	0.10		0.30	0.10	0.10						0.10		0.30		1.00 L SUM
701501								0.50			0.50				1.00 L SUM

I-255 LANE RESTRICTIONS SCHEDULE

I-255 LANE RESTRICTIONS SCHEDULE												
	MONDAY-FRIDAY	6:00A-9:00A: 2 LANE CLOSURES PROHIBITED										
SB		3:00P-6:00P: 2 LANE CLOSURES PROHIBITED										
	SATURDAY-SUNDAY	LANE RESTRICTIONS PERMITTED										
	MONDAY-FRIDAY	6:00A-9:00A: 2 LANE CLOSURES PROHIBITED										
NB		3:00P-6:00P: 2 LANE CLOSURES PROHIBITED										
SATURDAY-SUNDAY LANE RESTRICTIONS PERMITTED												

FILE NAME =	USER NAME = prestonme	DESIGNED -	REVISED -	STATE OF ILLINOIS	TRAFFIC	DATA SCH	IEDULE.	LANE	RESTRIC	TIONS S	CHEDULE AND	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\\ILØ84EBIDINTEG.1ll1no1s.gov:PWIDOT\Do	cuments\IDOT_Offices\District_8\Projec	ts\D876J DRAWNData \GADsheets\D876	J19-sht-itsplan.dgEVISED -	STATE OF ILLINOIS	т		NTROI		ROTECT			255	DIST 8 ITS 2016-1	ST. CLAIR	40	6
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	TRAFFIC DATA SCHEDULE, LANE RESTRICTIONS SCHEDULE / TRAFFIC CONTROL AND PROTECTION SCHEDULE SCALE: SHEET NO. OF SHEETS STA. TO STA.				CONTRA	CT NO.	76J19					
	PLOT DATE = 4/11/2016	DATE -	REVISED -		SCALE:	SHEET NO.	OF	SHEE	TS STA	•	TO STA.		ILLINOIS FED. A	ID PROJECT		

NM=NOT MEASURED

•= STATION EQUATION STA. 700+11.95 BACK= STA. 748+00.00 AHEAD



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	PLOT SCALE = 100.0000 ′ / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	SCALE: SHEET NO. OF SHEETS STA. TO STA.					CONTRAC	T NO. 76	6J19			
	PLOT DATE = 1/29/2016	DATE -	REVISED -				TO STA.		ILLINOIS FED. AI	PROJECT					



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OPTICAL EQUIPMENT SCHEDULE

	CISCO SWITCHES	S SFP Modules		ETHERNET	DIGITAL	DIGITAL
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MP25517.3				1		
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GENERAL NOTES

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

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

LOADING: 90 M.P.H. WIND VELOCITY

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

DESIGN STRESSES: Field Units f'c = 3,500 p.s.i. fy = 60,000 p.s.i. (reinforcement)

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

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

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

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO 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 nermitted

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

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

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

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

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE SPAN TYPE I-A	Foot	-
OVERHEAD SIGN STRUCTURE SPAN TYPE II-A	Foot	-
OVERHEAD SIGN STRUCTURE SPAN TYPE III-A	Foot	90
OVERHEAD SIGN STRUCTURE WALKWAY TYPE A	Foot	59.6
CONCRETE FOUNDATIONS	Cu. Yds.	-
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	46.31

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TRUSS F.A.I. SECTION COUNTY	TOTAL SHEETS	SHEET NO.
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TO STA. ILLINOIS FED. AID PROJECT		
IRUSS RTE. SECTION CONTINUE III-A 255 DIST 8 ITS 2016-1 ST. CLAIR TO STA. ILLINOIS FED. AID PROJECT	40 NO.	76.

	TRUSS UNIT TABLE																			
Structure		Design	Exte	erior Units	(2)		Interio	r Unit		Upper o	& Lower	Verticals; Hori	zontals; Vertical, Interior Diagonals	Camber			Splicing	' Flange		
Number	Station	Type	No, Panels per Unit	Unit Lgth.(L _e)	Panel Lgth.(P)	No. Reg′d.	No. Panels per Unit	Unit Lgth.(L;)	Panel Lgth.(P)	0.D.	Wall	0.D.	Wall	Midspan	Bolt No./Splice	s Dia.	Weld W	Sizes W1	A	В
8S082I255R017.2	842+00	III-A	5	28' 11 1/2'	' 5′ 5″	1	6	33′ 9″	5′5″	7"	5 <i>/1</i> 6"	3 1/4"	5/16"	1 13/16"	6	1"	7/16"	5/16"	11 1/2"	15""
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FOR TRUSS TYPES I-A

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



TRUSS TYPES II-A & III-A SPLICING FLANGES

ASTM B221, Alloy 6061-T6 or ASTM B209, Alloy 6061-T651 *To fit 0.D. of Chord with maximum gap of l_{6} ".

RUCTURES – ALUMINUM TRUSS DETAILS				DETAILS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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Damper:	One dampe Aluminum included in	er per truss - 29″ minis Overhead	s. (31 mum b Sign S	' Ibs. etwee Struct	minimum en ends c ure	Stockbrid f weights	lge-Type ;) Cost
Materials:	Materials:	Aluminum	tubes	shall	be ASTM	B221 al	loy 6061

STRUCTURE				SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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Support Design Loads: See Base Sheet OS-A-1 for design and loading criteria.

- Load combinations checked include deadload plus: a) 100% wind normal to sign, 20% parallel to sign b) 60% wind normal to sign, 30% parallel to sign
- (1) In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 µin or less.
- (2) Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.
- 3 Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1.
- (4) See General Notes for fasteners.
- (5) Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.
- (6) "H" based on 15'-0'' or actual sign height, whichever is greater.
- * For dynamic message sign installations, provide upper and lower handholes in both legs of each support frame.

4″ x 1½″, min. Continuous backing ring

within 1" of plumb

3'' Galvanized Steel Conduit. Thread and cap both ends.

Structure	Station	Sup,	oort	Pipe Wall	Н	
Number	STUTION	Left	Right	Thickness	6	A
8S0821255R017.2	842+00	\geq		0.33	24.19	14.24
8S0821255R017.2	842+00		\geq	0.33	29.14	19.99

ES – SUPPORT FRAME MINUM TRUSS		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
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STRUCTURES		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
WAY DETAILS FOR DMS	255	DIST 8 ITS 2016-1	ST. CLAIR	40	32			
WAT DETAILS TON DIVIS			CONTRAC	T NO. '	76J19			
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•••	AV DETAILS FOR DMS	255	DIST 8 ITS 2016	-1	ST. CLAIR	40	33
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BAR LIST - EACH FOUNDATION

v4(E) 24 #9 F less 5''	Bar	Number	Size	Length	Shape
	V4(E)	24	#9	F less 5"	
#4 bar spiral (E) - see Side Elevation	#4 ba	ar spiral (i	E) - see :	Side Elevatio	n.

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

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference. No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation

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

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

TRUSS	

	Right Fo	oundation			Class DS
on	Elevation Bottom	A	В	F	Concrete (Cu. Yds.)
3	387.23	2.75	27.25	30	15.71

TRUCTURES		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DETAILS	255	DIST 8 ITS 2016-1	ST. CLAIR	40	35
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	Bar	Number	Size	Length	Shape	
/2	h(E)	10	#5	M less 4″		
	s(E)	Varies	#5	Varies		<u>6'' </u>
5/2 "	v(E)	16	#9	F less 0'-5''		Support Frame
34''	v(E)	24	#9	F less 0'-5''		√ 10″ \$\u03c6 and 12″ \$
2						Support Frame
9″						
	#4(E.) bar spira	al <u>see</u> S	ide Elevation		

			Class DS		
F	Elevation Top	Elevation Bottom	В	F	Concrete (Cu. Yds.)
30.0′					30.6

TRUCTURES IDATION DETAILS		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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		255	DIST 8 ITS 2016-	1	ST. CLAIR	40	37
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			AMP.STIFF	15 1.3	-26			-40				
		BROWN AND GRAY <u>SILT</u>	AMP STIFF	18 1.8	21							
		SILTY SAND 419.0+	-15		16							
		BROWN AND GRAY FINE		00 40	10			-35				
		42) 5+	-TO	P.P	15							
		-	AMP.STIFF	10 1.0	19			30				
		SANDY SILT	AMP.STIFF	21 1.3	.16							
		BROWN AND	AMP_STIFF	11 1.5	16							
		GROUND SURFACE @ 432.0	FOUNDATION					.25				
		Ground Surface 433.	0 0	- 0		After Hour	8			0		
		COUNTY <u>St. Clair</u> Boring No. <u>C-2</u> Station 8174	evation 05	N u tr's.f.	(96) V	Surface Water El. Groundwater El. a Completion		evetion	z	u t/s.f.	w (%)	
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		CONTRACT NO. 76J19

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SUC: B2/2 J. (23) STA DB/2 B2/2 Owned By A. Ref 1100 SUC: SUL ALT Develop By Status Superior Superior </td <td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td> <td>Sh.1 of 1 Sh.2 <th< td=""><td>PROJECTBRIDGEFAI 270Date10-18-78 ROUTEFAI 270Box CulvertBored ByJ. King</td><td>St. Clair County Boring No. 1 Station 838+00</td></th<></td>	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Sh.1 of 1 Sh.2 Sh.2 <th< td=""><td>PROJECTBRIDGEFAI 270Date10-18-78 ROUTEFAI 270Box CulvertBored ByJ. King</td><td>St. Clair County Boring No. 1 Station 838+00</td></th<>	PROJECTBRIDGEFAI 270Date10-18-78 ROUTEFAI 270Box CulvertBored ByJ. King	St. Clair County Boring No. 1 Station 838+00
N-Standard Penetration Test- Blows per foot to drive 2" Qu-Unconfined Compressive Bi-Bulge Failure O.D. Split Spoon Sampler 12" with 140 No. hammer falling 30". Type failure Bi-Bulge Failure S - Shear Failure e of oven dry weight-12. N-Standard Penetration Test- Biows per foot to drive 2" Qu-Unconfined Compressive Biows per foot to drive 2" Type failure: Biows per foot to drive 2" Type failure: Biows per foot to drive 2" N-Standard Penetration Test- Biows per foot to drive 2" Qu-Unconfined Compressive Biows per foot to drive 2" Type failure: Biows per foot to drive 2" Strength - t/sf B - Bulge Failure S - Shear Failure 140 No. hammer falling 30". w - Water Content - percentage of oven dry weight-12. E - Estimated Value P - Penetrometer w - Water Content - percentage of oven dry weight-% E - Estimated Value P - Penetrometer P - Penetrometer	N-Standard Penetration Test- Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140 No, hammer falling 30". w - Water Content - percentage of oven dry weight-% BD 137 (Rev. 4-78)	SEC. 82(2.3.4)SB STA 838+25 Checked By R. Nebelsick COUNTY St. Clair 5 6 5 7 3 88.8 MET.MEDIUM 13 NC - GRAY SILTY DAMP_STIFF 7 1 3 23 3 88.8 MET.MEDIUM 13 NC - 3 88.8 MET.MEDIUM 13 NC - 33 NC - 33 NC - 33 NC - 33 NC -<	SEC. 82-4A STA B38400 Checked By R. Reperside COUNTY St. Clair Station Stati	GRAY FINE TO MEDIUM SAND 45 MET.MEDIUM 10 NC - 368.6+ NET.MEDIUM 10 NC - GRAY MEDIUM TO COARSE 33 NC - SAND WET.DENSE 33 NC GRAY MEDIUM TO COARSE -50 - - GRAY MEDIUM SAND WET.DENSE 31 NC - GRAY MEDIUM SAND WET.DENSE 32 NC - (SOME GRAVEL) - - - - 360.3 -55 NC - - (SOME GRAVEL) - - - - 388.6 - - - - GRAY MEDIUM SAND WET.LOOSE 5 NC - SAND - - - - - 358.6 - - - - - 354.3 WET.MEDIUM - - - - - - - - <t< td=""></t<>
		N-Standard Penetration Test- Blows per foot to drive 2" Qu-Unconfined Compressive Strength - t/sf Type failure: B - Bulge Failure S - Shear Failure S - Shear Failure S - Shear Failure F - Estimated Value P - Penetrometer	N-Standard Penetration Test- Blows per foot to drive 2'' Qu-Unconfined Compressive Type failure: Q.D. Split Spoon Sampler 12'' with 140 No. hammer falling 30''. Strength - t/sf B - Bulge Failure BD 137 (Rev. 4-78) -45	- <u>7</u> 8

FILE NAME =	USER NAME = prestonme	DESIGNED -	REVISED -				SOIL	BORING	2001		F.A.I.	SECTION	COUNTY	TOTAL SHEE
pw://ILØ84EBIDINTEG.1111no1s.gov:PWIDOT/Do	cuments\IDOT Offices\District 8\Projects\D87	G DRAWNData \EADsheets\D876J19-sht-1tspla	n-₩£EVISED –	STATE OF ILLINOIS	DMC		ALT CON	ICDETE		NC AT MD 179	255	DIST 8 ITS 2016-1	ST. CLAIR	40 40
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	DIVIS	DRILLED SH	AFT CUN	UNEIE	FUUNDATIO	NS AT WIF 17.2	_		CONTRAC	T NO. 76J1
Default	PLOT DATE = 4/11/2016	DATE –	REVISED -		SCALE:	SHEET	0F	SHEET	S STA.	TO STA.		ILLINOIS FED. A	ID PROJECT	

8-68		\$42. 2 of 2 \$4.
BRIDGE FOUNDATION	BORING LOG	BORED BY J.King
+00		Elevation N Ou h/s.(%)
0 -45	-	
WET.MEDIUM 10 NC -		
WET.DENSE 33 NC -		- 75
-50		-
WET, DENSE 31 NC -		
WET.DENSE 32 NC -		-80
-55		-
WET LOOSE 5 NC -		-
M WET, MEDIUM -22 NC -		
-60		-85
WET, MEDIUM 25 NC -		
ING		
-63		
		3
-75		-25
1065	F.A.I. SECTION	COUNTY TOTAL SHEETS