STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 240200-2-52-01 (FEDERAL FUNDS) SEMINOLE COUNTY (77320) STATE ROAD NO. 429 (WEKIVA PARKWAY SECTION 7A)

SIGNALIZATION PLANS

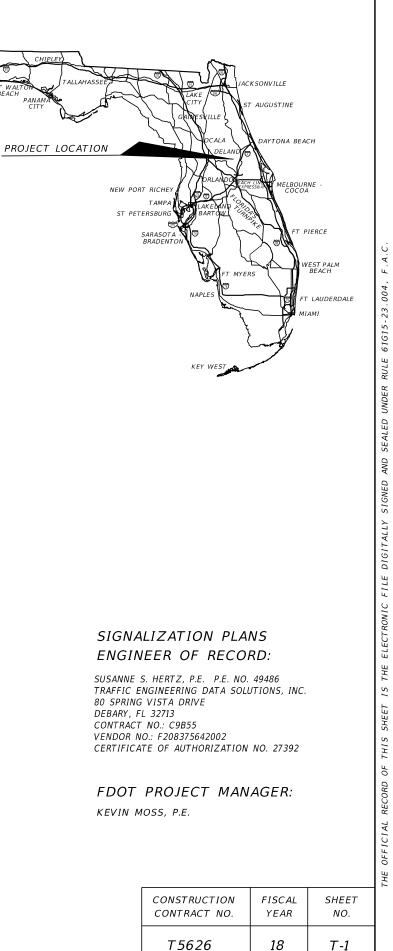


INDEX OF SIGNALIZATION PLANS

SHEET NO.

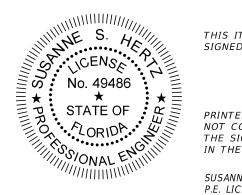
T-1	KEY SHEET
T-2	SIGNATURE SHEET
T-3	TABULATION OF QUANTITIES
T-4	GENERAL NOTES
T-5	SIGNALIZATION PLAN
Т-6	SIGNAL DETAILS
T-7	STANDARD MAST ARM TABULATION
T-8	STANDARD MAST ARM ASSEMBLIES DATA TABLE
T-9	SPLICING DIAGRAM
T-10	GUIDE SIGN WORKSHEET
T-11	REPORT OF SPT BORINGS

SHEET DESCRIPTION



18

T-1



SHEET NO.

T - 1

T - 2 T - 3

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SUSANNE S. HERTZ, P.E. P.E. LICENSE NUMBER 49486 TRAFFIC ENGINEERING DATA SOLUTIONS, INC. 80 SPRING VISTA DRIVE DEBARY, FLORIDA 32713 CERTIFICATE OF AUTHORIZATION 27392

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

SHEET DESCRIPTION

SIGNALIZATION PLAN SIGNAL DETAILS

GUIDE SIGN WORKSHEET

TABULATION OF QUANTITIES

STANDARD MAST ARM TABULATION

SIGNATURE SHEET

GENERAL NOTES

KEY SHEET

No. 77095 STATE OF CORIDA SONAL ENTITIES ILLINING CENSA

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ALEXANDER T. MIMS, P.E. P.E. LICENSE NUMBER 77095 TRAFFIC ENGINEERING DATA SOLUTIONS, INC. 80 SPRING VISTA DRIVE DEBARY, FLORIDA 32713 CERTIFICATE OF AUTHORIZATION 27392

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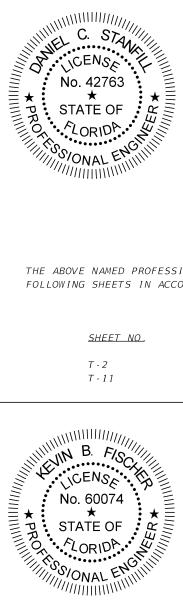
SHEET NO.

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SIGNATURE SHEET SPLICING DIAGRAM

SHEET DESCRIPTION



SHEET NO.

Т-2 T - 8

	REV	SIONS				STATE OF F	LORIDA		
DATE	DESCRIPTION	DATE	DESCRIPTION	SUSANNE S. HERTZ, P.E. PE No. 49486 Traffic Engineering Data Solutions, Inc.	DEP	ARTMENT OF TRA			a = a
				80 Spring Vista Drive Phone: 386.753.0558 DeBary, FL 32713 Fax: 386.753.0778	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	-	SIG
				CERTIFICATION OF AUTHORIZATION # 27392	SR 429	SEMINOLE	240200-2-52-01		
						Pam		8/9/2017	9:59:23 AM



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DANIEL C. STANFILL, P.E. P.E. LICENSE NUMBER 42763 GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC. 919 LAKE BALDWIN LANE ORLANDO, FLORIDA 32814 CERTIFICATE OF AUTHORIZATION 5882

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

SHEET DESCRIPTION

SIGNATURE SHEET REPORT OF SPT BORINGS



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KEVIN B. FISCHER, P.E. P.E. LICENSE NUMBER 60074 IDA CONSULTING ENGINEERS, INC. 800 N. MAGNOLIA AVE., SUITE 1402 ORLANDO, FLORIDA 32803 CERTIFICATE OF AUTHORIZATION 8171

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

SHEET DESCRIPTION

SIGNATURE SHEET STANDARD MAST ARM ASSEMBLIES TABLE

> SHEET NO.

GNATURE SHEET

T-2

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PAY					S	HEET	NUMBEI	RS					TOTAL THIS	GRAND
ITEM NO.	DESCRIPTION	UNIT	1 - 4	T - 5	T - 6		1						SHEET	TOTAL
30-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	PLAN FINAL	PLAN FINA 617	L PLAN FINAL	. PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN FINA	L PLAN FINAL	PLAN FINA
30-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF		389									389	389
532-7-1	SIGNAL CABLE-NEW OR RECONSTUCTED INTERSECTION, F&I	PI		1									1	1
532-7-6	SIGNAL CABLE-INTERSECTION, REMOVE	PI		1	200								1	1
533-1-121 533-2-31	FIBER OPTIC CABLE, F&I, UNDERGROUND, 2-12 FIBERS FIBER OPTIC CONNECTION, INSTALL , SPLICE	<i>LF</i>		50	300								350	350
533-2-31 533-3-11	FIBER OFFIC CONNECTION, INSTALL, SPLICE FO CONNECTION, HARDWARE, F&I, SPLICE ENCLOSURE	EA EA			8								8	8
633-3-12	FO CONNECTION, HARDWARE, F&I, SPLICE TRAY	EA			1								1	1
633-3-15	FO CONNECTION, HARDWARE, F&I, PRETERM PATCH PANEL	EA		1									1	1
634-4-600	SPAN WIRE ASSEMBLY, REMOVAL-POLES REMAIN	PI	1										1	1
635-2-11	PULL & SPLICE BOX, F&I, 13"x24" COVER SIZE	EA		27									27	27
635-2-12	PULL & SPLICE BOX, F&I, 24" x36" COVER SIZE	EA		1	1								1	1
535-2-13 539-2-1	PULL & SPLICE BOX, F&I, 36" ROUND COVER SIZE ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	EA LF		13	1								13	13
541-2-80	CONC STRAIN POLE REMOVAL COMPLETE DEEP 30' >	EA	4	15									4	13
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	EA		7									7	7
649-21-6	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 50'	EA		2									2	2
649-21-10		EA		1									1	1
549-21-21	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 78'	EA	ļ	1									1	1
649-26-3	MAST ARM, REMOVE SHALLOW/COMPLETE FOUND, BOLT ON ATTACHMENT	EA	┨───┤────	4									4	4
650 - 1 - 24 650 - 1 - 26	TRAFFIC SIGNAL, FURNISH & INSTALL, POLY W/ALUM TOP, 3 SEC, 1 WAY TRAFFIC SIGNAL, FURNISH & INSTALL, POLY W/ALUM TOP, 4 SEC, 1 WAY	AS AS		9									9	9
653-1-20	PEDESTRIAN SIGNAL, FURNISH & INSTALL, POLT W/ALOM TOP, 4 SEC, I WAT	AS		6									6	6
653-1-12	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED CNTDWN, 2 WAY			1									1	1
660-1-101		EA		12									12	12
660-1-102	LOOP DETECTOR INDUCTIVE, F&I, TYPE 2	EA		4									4	4
660-2-102		AS		10									10	10
660-2-106		AS		6									6	6
660-4-41	VIDEO DETECTION SYS-VIDEO, RELOCATE CABINET EQUIPMENT	EA		1									1	1
660-4-42 665-1-11	VIDEO DETECTION SYS-VIDEO, RELOCATE ABOVE GROUND EQUIPMENT	EA 		4									4	4
670-5-110	PEDESTRIAN DETECTOR, FURNISH & INSTALL, STANDARD TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA	AS		0									0	0
670-5-600			1	1									2	2
684 - 1 - 1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA		1									1	1
	SIGN PANEL, FURNISH & INSTALL, OVERHEAD MOUNT, UP TO 12 SF	EA		2									2	2
700-5-22	INTERNALLY ILLUMINATED SIGN, F&I, OH MOUNT 12 - 18 SF	EA		4									4	4
715-5-32	LUMINAIRE& BRACKET ARM-GALV STEEL, F&I, NEW LUM & ARM ON NEW/EXIST POLE	EA		4									4	4
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DATE	DESCRIPTION DATE DESCRIPTION	SUSANNE S. HERTZ, P.E.	PE No. 49486	10004	STATE OF			ν.						SHEET
		Traffic Engineering Data			ARTMENT OF TR						יצורים א		OTTANTOTION	NO.
		80 Spring Vista Drive P DeBary, FL 32713 F	hone: 386.753.0558 ax: 386.753.0778	ROAD NO.	COUNTY	FINA	NCIAL PRO	DJECT ID	1	ABU		IOIN OF	QUANTITI	
		CERTIFICATION OF AUTHOR		SR 429	SEMINOLE	24	40200-2-5	52-01						T-3

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Z:\2012 Projects\10518 (Wekiva Parkway-Section 7A)\CADD\24020025201\signals\TABQSG

GENERAL

1. Unless otherwise noted all removed equipment shall be turned over to Seminole County Traffic Engineering at 140 Bush Loop, Sanford, FL as directed by the engineer, except concrete poles or foundations, which shall be disposed of by the contractor. Contractor to notify Seminole County Traffic Engineering Charles Wetzel at 407-665-5686 2 business days prior to beginning construction. Mast arms that are removed shall be delivered to Seminole County Traffic Engineering at 140 Bush Loop, Sanford, FL.

2. The Contractor is required to inspect the installation of the traffic signals. The Contractor shall coordinate the final acceptance inspection with the engineer at least ten days in advance. Seminole County Traffic Engineering and FDOT Traffic Signal Quality Assurance Manager at (386) 943-5318 should be contacted ten days before the inspection is to be performed so they may be present.

CONTROLLER

1. The controller assembly shall consist of a NEMA TS2 cabinet type 6 with a TS 2 Type 2 controller. The controller assembly shall have all necessary hardware to communicate with Seminole County Traffic Engineering signal system. Any additional equipment and/or accessories required for the termination and operation of the fiber optic interconnect cable shall be furnished and installed as part of the controller assembly.

2. The controller cabinet shall be oriented so that the door opens away from the intersection.

3. The controller shall revert to time based coordination upon disconnecting the coordinating unit when loops are available on the non-coordinated approaches.

SIGNAL CABLE, LOOPS, CONDUIT, & PULL BOXES

1. Delay times for loops marked "delay" shall be set to 5 seconds. All others shall be set to zero.

2. The far advanced Type "B" loops are to be wired to the system panel and shall function as both system loops and advanced loops. Additionally, each "B" loop shall have a separate detector channel.

3. The 40' Type "F" loops shall be placed 5' in front of stop bar.

MAST ARMS

1. If a continuous run of signal cable is not possible from the cabinet to the signal head, then a terminal block shall be used to connect cables at the signal pole hand hole. At least 6' of slack cable shall be available for troubleshooting.

2. For miscellaneous structures that have been completed and scheduled for acceptance, the Contractor shall contact District Five Structures Maintenance Office at (386) 740 3463 one month prior to completion of project to schedule an inspection of structures including cable signs, cantilever signs, truss signs, high mast light poles, ITS, DMS and traffic signal mast arms.

PAY ITEM NOTES

1. Pay item number 633-3-15 includes factory terminal fiber optic jumpers as required to provide the connections indicated in the plans.

2. Pay item numbers 634-4-600 and 642-1-80, and 670-5-600 includes the removal of the existing signal at SR 46 and Longwood Markham Rd (See TCP Plans).

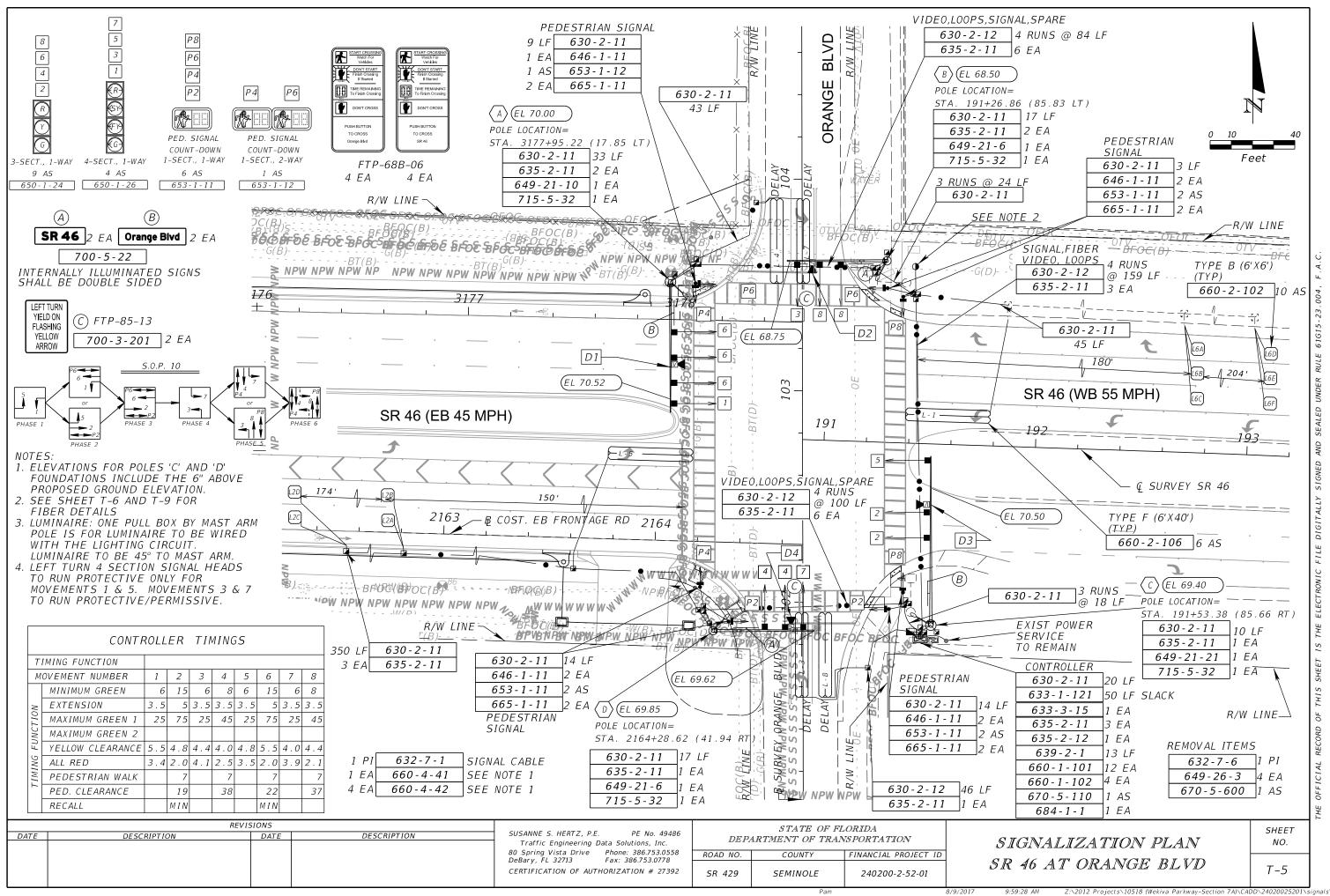
3. Pay item numbers 660-4-41 and 660-4-42 to relocate existing Adaptive System cameras and cabinet equipment to new mast arms and new cabinet including new cable for rewiring.

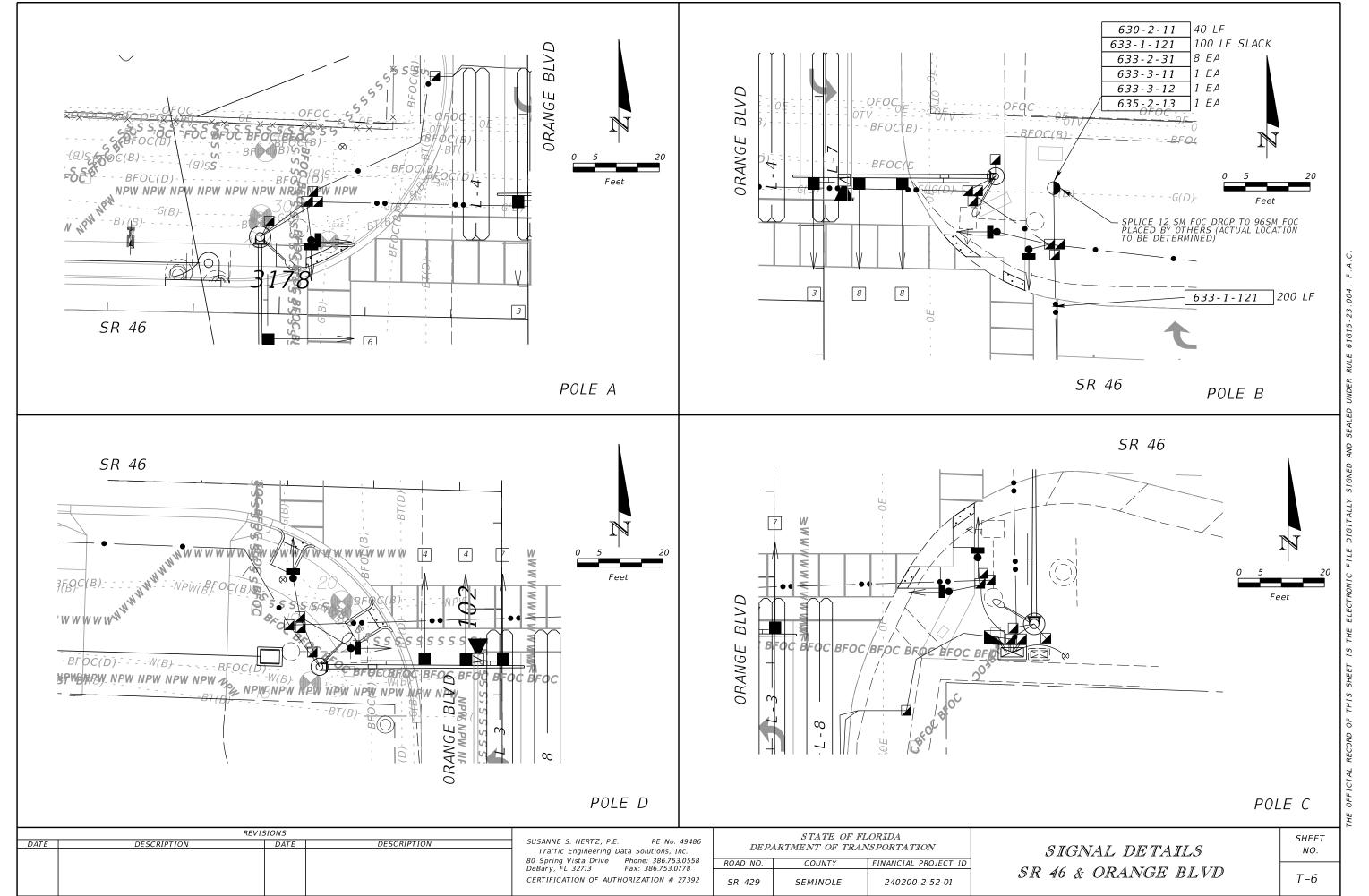
4. Pay item number 700-5-22 shall include a master photocell mounted near the electric service within reach of a lift truck. Photocell shall be installed where streetlights do not affect operation.

5. Pay item 715-5-32 to include conductors in the mast arm to the pull box for the luminaire to tie into the lighting circuit. See lighting plans sheet L-13 for conductor size.

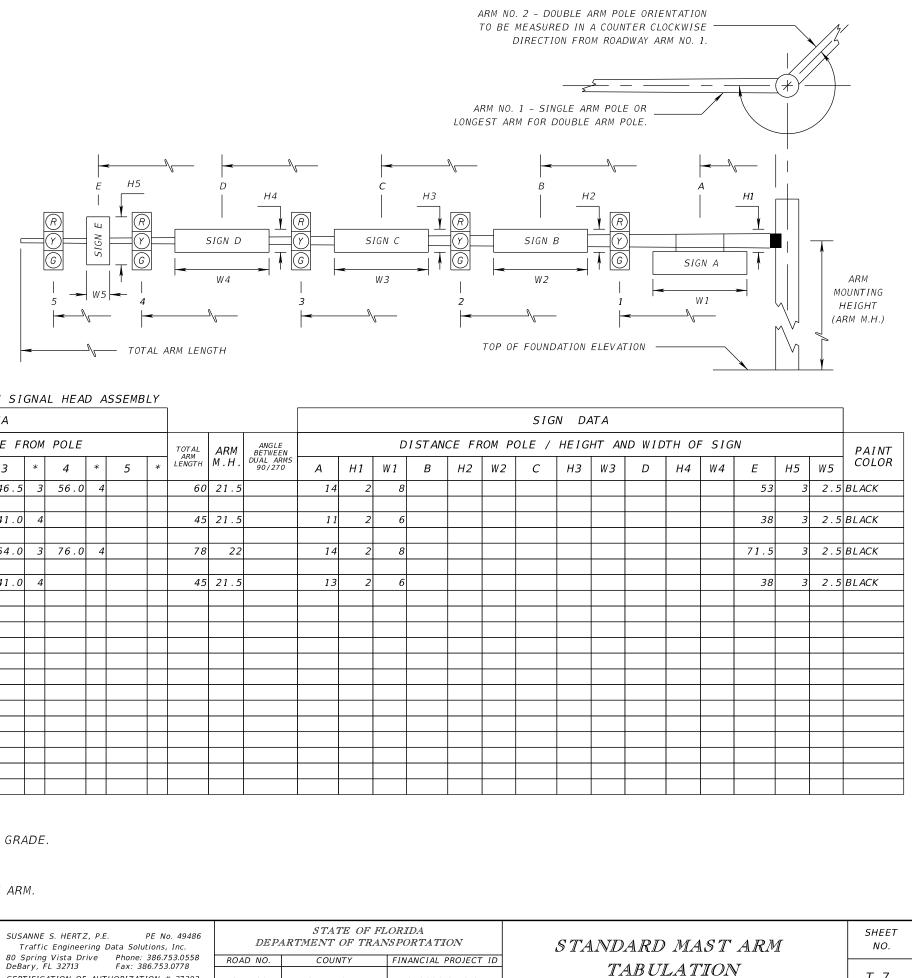
	REVI	SIONS				STATE OF F	LORIDA
DATE	DESCRIPTION	DATE	DESCRIPTION	SUSANNE S. HERTZ, P.E. PE No. 49486 Traffic Engineering Data Solutions, Inc.	DEP.	ARTMENT OF TRA	NSPORTATION
				80 Spring Vista Drive Phone: 386.753.0558 DeBary, FL 32713 Fax: 386.753.0778	ROAD NO.	COUNTY	FINANCIAL PROJECT ID
				CERTIFICATION OF AUTHORIZATION # 27392	SR 429	SEMINOLE	240200-2-52-01

SHEET NO. GENERAL NOTES T-4





SP	PECI	AL	INST	RUC	TIONS
ID NO.		D. TON		D. VALS	HANDHOLE LOCATION



* DENOTE	S NUMBER	OF	SECTIONS	ΙN	SIGNAL	HE AD	ASSEMBLY
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										5	IGNAL	D	DATA															510	GN DA
ID	SHEET	LOCATION	TOP OF FOUND. ELEVATION	RDWY	CROWN ELEV.	SIGNAL	BACK	PED.			DIS	STA	NCE F	ROM	POLE				TOTAL ARM LENGTH	ARM	ANGLE BETWEEN			D	ISTAN	CE FF	ROM P	OLE /	' HEIG
NO	NO.	BY STA.	ELEVATION	NO .	ELEV.	V/H	Y/N	Y/N	1	*	2	*	3	*	4	*	5	*	LENGTH	М.Н.	ANGLE BETWEEN DUAL ARMS 90/270	А	H1	W 1	В	H2	W2	С	НЗ
A	T - 5	3177+95.22	70.00	1	70.52	? V	' Y	N	22.5	3	34.5	3	46.5	3	56.0	4			60	21.5		14	2	2 8		1			
				2																									
В	T - 5	191+26.86	68.50	1	68.75	5 V	' Y	N	20.0	3	30.0	3	41.0	4					45	21.5		11	Z	2 6					
				2																									
С	T - 5	191+53.38	69.40	1	70.50	v v	' Y	N	40.0	3	52.0	3	64.0	3	76.0) 4			78	22		14	2	2 8					
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D	T - 5	2164+28.62	69.85	1	69.62	? V	' Y	N	22.5	3	32.0	3	41.0	4					45	21.5		13	2	2 6					
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NOTES:

1. TOP OF FOUNDATION ELEVATION FOR POLES 'C' AND 'D' INCLUDE 6" ABOVE FINAL GRADE.

2. ID NO. C - SIGNAL HEAD 3 WIRE FOR FUTURE SIGNAL HEAD.

3. COLOR BLACK IS FED STD 595-17038.

4. MOUNTING HEIGHTS ARE BASED ON ZERO DEGREE LOADED RAKE FOR THE MAST ARM.

5. SIGNS FOR LOCATION E ON POLE ID NO. A & B ARE FOR FUTURE SIGNS.

REV DATE DESCRIPTION	ISIONS DATE	DESCRIPTION	SUSANNE S. HERTZ, P.E. PE No. 49486	DED	STATE OF I			
			Traffic Engineering Data Solutions, Inc. 80 Spring Vista Drive Phone: 386.753.0558	ROAD NO.	ARTMENT OF TRA	FINANCIAL PROJECT ID	-	STAI
			DeBary, FL 32713 Fax: 386.753.0778 CERTIFICATION OF AUTHORIZATION # 27392	SR 429	SEMINOLE	240200-2-52-01]	
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							SPI	ECIAL	MAST	- ARM	ASSE	MBLIE	S DAT	Α ΤΑ	BLE							T	able Date	01-01-12
NUMBER OF	STRUCTURE		FIRST	ARM		FIRS	ST ARM	EXTEN	SION		SECON	D ARM		SECC	OND ARM	1 EXTEN	ISION				POLE			
LOCATIONS	NUMBER	FA(ft)	FB(in)	FC(in)	FD(in)	FE(ft)	FF(in)	FG(in)	FH(in)	SA(ft)	SB(in)	SC(in)	SD(in)	SE(ft)	SF(in)	SG(in)	SH(in)	UA(ft)	UB(ft)	UC(in)	UD(in)	UE(in)	UF(deg)) UG(ft)
1	POLE A	34.5	7.13	12	0.25	27.5	11.2	15	0.375	0	0	0	0	0	0	0	0	25	21.5	14.5	18	0.375	0	37.2
1	POLE B	26.5	8.23	11.9	0.25	20.5	11.2	14	0.313	0	0	0	0	0	0	0	0	25	21.5	14.5	18	0.375	0	37.2
1	POLE C	38	7.61	12.9	0.25	42	12.2	18	0.375	0	0	0	0	0	0	0	0	25	22	18.5	22	0.375	0	37.2
1	POLE D	26.5	8.23	11.9	0.25	20.5	11.2	14	0.313	0	0	0	0	0	0	0	0	25	21.5	14.5	18	0.375	0	37.2

						SPEC	CIAL N	IAST .	ARM A	ASSEM	BLIES	DATA	TABL	E (CC	NT.)					Т	able Date	01-01-12
STRUCTURE	FI	RST AR	м солл	IECTION	l (in)	First	Arm Ca	mber Aı	ngle = 2	2 Degre	es	SEC	OND ARI	M CONN	IECTION	l (in)	Secon	d Arm (Camber	Angle	= 2 Deg	rees
NUMBER	#Bolts	ΗT	FJ	FK	FL	FN	FO	FP	FR	FS	FT	#Bolts	HT	SJ	SK	SL	SN	50	SP	SR	55	ST
POLE A	6	22	27	3	0.75	0.5	13.5	1.25	2	8.5	0.5	0	0	0	0	0	0	0	0	0	0	0
POLE B	6	22	27	3	0.75	0.313	13.5	1.25	2	8.5	0.313	0	0	0	0	0	0	0	0	0	0	0
POLE C	6	30	36	3	0.75	0.438	15.5	1.25	2	12.5	0.438	0	0	0	0	0	0	0	0	0	0	0
POLE D	6	22	27	3	0.75	0.313	13.5	1.25	2	8.5	0.313	0	0	0	0	0	0	0	0	0	0	0

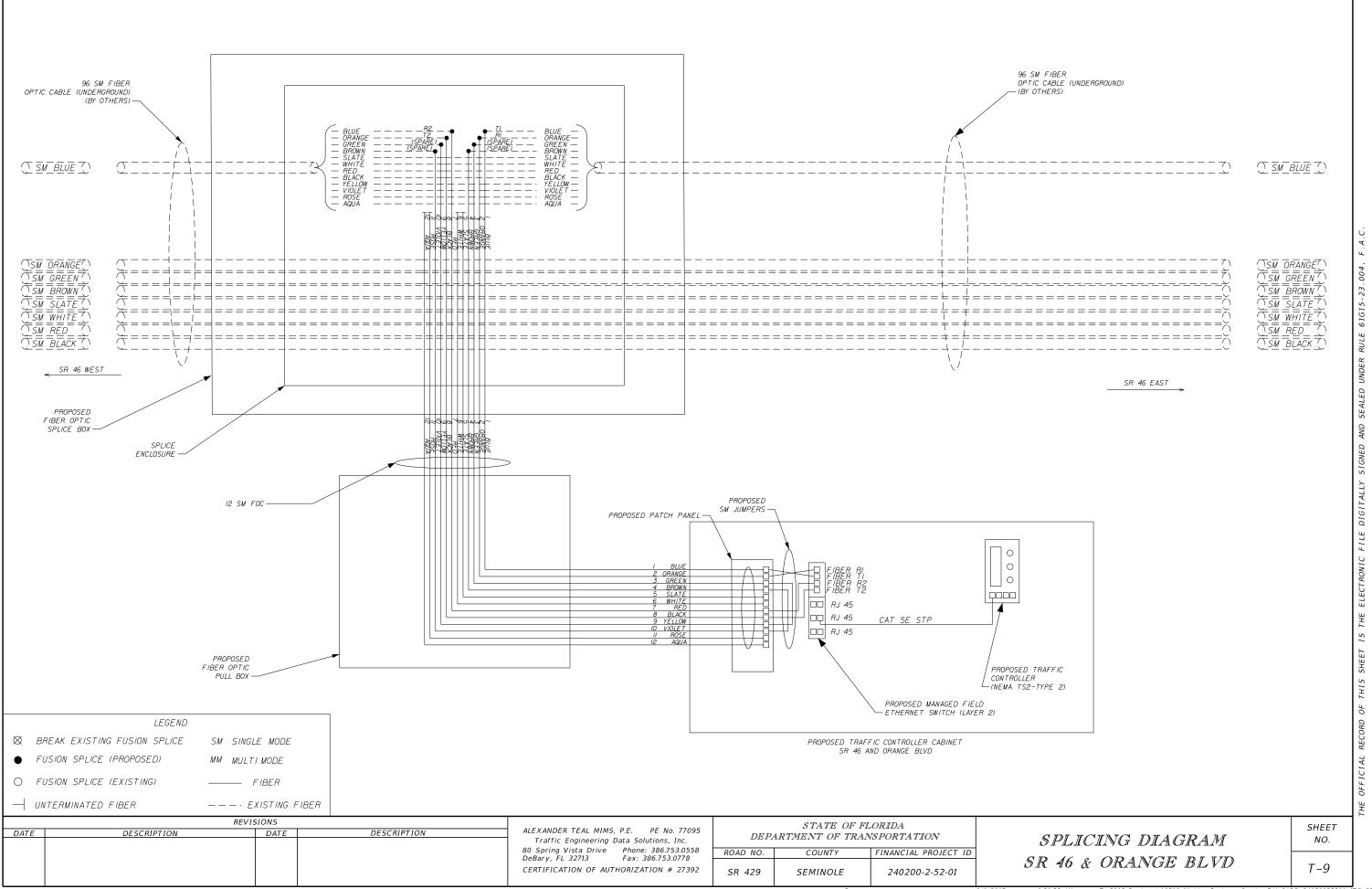
						SPEC	CIAL N	IAST /	ARM A	SSEM	BLIES	DATA	A TABL	.Е (СС	NT.)							7	able Date	07-01-15
STRUCTURE	POL	E BASE	CONNE	CTION	(in)		SI	HAFT AN	ID REIN	F.						LL	JMINAIR	E AND	LUMINA	IRE CON	INECTIC	DN .		
NUMBER	#Bolts	BA	BB	BC	BF	DA(ft)	DB(ft)	RA	RB	RC	RD(in)	RE	RF(in)	LA(ft)	LB(ft)	LC(in)	LD(in)	LE	LF(ft)	LG(in)	LH(in)	LJ(in)	LK(in)	LL(deg
POLE A	6	34	2.5	2	40	31	4.5	11	15	12	8	0	0	40	12	3	0.125	0.46	8	0.5	0.75	0.25	0.25	68
POLE B	6	30	2.5	1.5	30	28	4	11	12	12	8	0	0	40	12	3	0.125	0.46	8	0.5	0.75	0.25	0.25	58
POLE C	6	38	2.5	2	40	35.5	4.5	11	15	12	8	0	0	40	12	3	0.125	0.46	8	0.5	0.75	0.25	0.25	42
POLE D	6	32	2.5	1.75	35	25.5	4.5	11	15	12	8	0	0	40	12	3	0.125	0.46	8	0.5	0.75	0.25	0.25	39
																								1

		REVIS	SIONS				DRAWN BY: KBF 04-17		STATE OF FI	ORIDA	SHEET TITLE:	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	CONSULTING ENGINEERS, INC.	CHECKED BY: TTW 04-17			ANSPORTATION		STANDARD
						800 N. Magnolia Ave., Suite 1402 Orlando, FL 32803 (407) 540-1410	DESIGNED BY:	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:	
						Cert. of Auth. # 8171 Keyin B. Fischer, License # 60074	KBF 04-17 CHECKED BY: TTW 04-17	SR 429	SEMINOLE	240200 - 2 - 52 - 01		WEKIV

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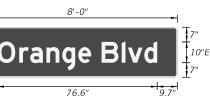
F.A.C.

(deg) 68 58	NOTES [Notes Date 07-01-13]: 1. Work with Index 17745. 2. Design Wind Speed = 150 mph	
42	FOUNDATION NOTES [Notes Date 01-01-12]. 1. Design based on Borings taken	:
39	sealed by Geotechnical and Environmen Consultants, Inc.	
	2. Assumptions and Values used in desig Soil Type = Sand Soil Layer Thickness = 40 ft. Soil Friction Angle = 32 deg. (Poles A 30 deg. (Poles B Soil Weight = 52.60 pcf (Poles A and 47.60 pcf (Poles B and Design Water Table is 0 ft. below sur	and C), and D) C), D)
ARD I	MAST ARM ASSEMBLIES DATA TABLE	REF. DWG. NO.
		SHEET NO.
KIVA	PARKWAY (SR 429) SECTION 7A	T - 8

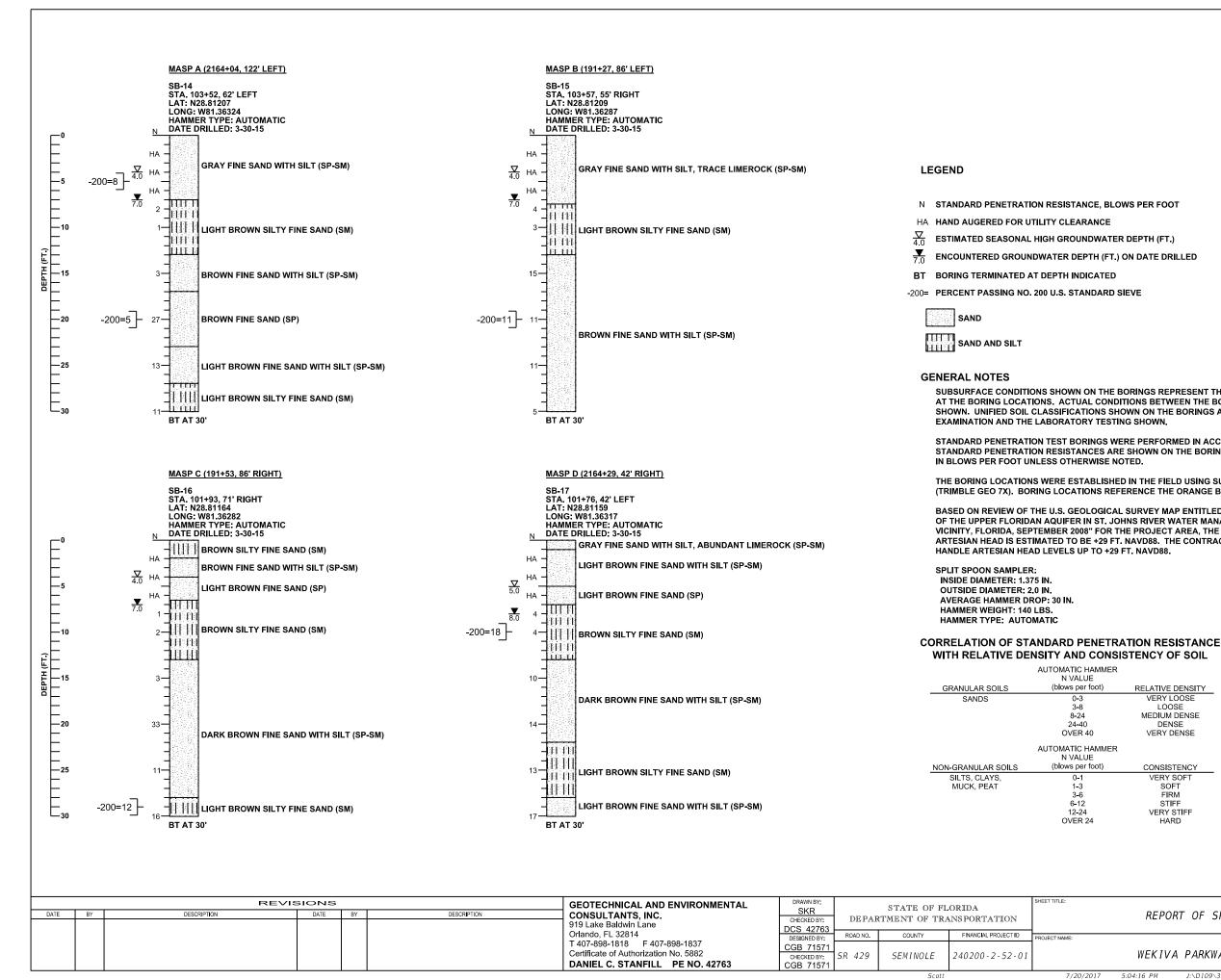


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PANE WIDTH 6 HEIGHT 2 LEGEND W COLOR 6 SYMBOL(S		STATION(none WID H AVERAGY	Т Т Е	BORDER R=1.5" TH=0.5" Panel Style: Street Name 6-3in.ssi M.U.T.C.D.: 2009 Edition										HE IGHT 2'-0" LEGEND White COLOR Green SYMBOL(S) A 12"EM 6" 5KGW						EL BORDER none 8'-0" WIDTH 0.5" 2'-0" 2'-0" RADII 1.5" 2'-0" white COLOR White 2'-0" Green 0.000 0.000 0.000						BORDER R=1.5'' TH=0.5'' Panel Style: Street Name 6-3in.ssi M.U.T.C.D.: 2009 Edition B'-0'' T=0''' T=0''' T=0''' T=0''' T=0''' T=0''' T=0'''' T=0''''' T=0''''''''''''''''''''''''''''''''''''															
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8/9/2017



N VALUE

(blows per foot)

0-3 3-8

8-24

24-40

OVER 40

N VALUE

(blows per foot)

1-3

3-6

6-12

12-24

OVER 24

SUBSURFACE CONDITIONS SHOWN ON THE BORINGS REPRESENT THE CONDITIONS ENCOUNTERED AT THE BORING LOCATIONS. ACTUAL CONDITIONS BETWEEN THE BORINGS MAY VARY FROM THOSE SHOWN. UNIFIED SOIL CLASSIFICATIONS SHOWN ON THE BORINGS ARE BASED ON VISUAL

STANDARD PENETRATION TEST BORINGS WERE PERFORMED IN ACCORDANCE WITH ASTM D-1586. STANDARD PENETRATION RESISTANCES ARE SHOWN ON THE BORINGS AT THE TEST DEPTHS IN

THE BORING LOCATIONS WERE ESTABLISHED IN THE FIELD USING SUB-METER ACCURACY GPS UNIT (TRIMBLE GEO 7X). BORING LOCATIONS REFERENCE THE ORANGE BOULEVARD CENTERLINE.

BASED ON REVIEW OF THE U.S. GEOLOGICAL SURVEY MAP ENTITLED "POTENTIOMETRIC SURFACE OF THE UPPER FLORIDAN AQUIFER IN ST. JOHNS RIVER WATER MANAGEMENT DISTRICT AND VICINITY, FLORIDA, SEPTEMBER 2008" FOR THE PROJECT AREA, THE MAXIMUM ELEVATION OF THE ARTESIAN HEAD IS ESTIMATED TO BE +29 FT. NAVD88. THE CONTRACTOR SHALL BE PREPARED TO

RELATIVE DENSITY VERY LOOSE LOOSE MEDIUM DENSE DENSE VERY DENSE

CONSISTENCY VERY SOFT SOFT FIRM STIFF VERY STIFF HARD

<u>SB-15 / SB-16</u> SECTION: 30 **TOWNSHIP: 19 SOUTH** RANGE: 30 EAST SB-14 / SB-17

SECTION: 25 **TOWNSHIP: 19 SOUTH** RANGE: 29 EAST

REPORT OF SPT BORINGS

WEKIVA PARKWAY SECTION 7A

5:04:16 PM

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REF. DWG. NO.

SHEET NO.

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