LAKE COUNTY, FLORIDA



DEPARTMENT OF PUBLIC WORKS

ENGINEERING DIVISION

350 N. SINCLAIR AVE. **TAVARES, FLORIDA 32778**

INDEX OF SIGNALIZATION PLANS

SHEET NO.

T-10

T-11

SHEET DESCRIPTION

T-2 T-2A T-3`

KEY SHEET

SIGNATURE SHEET

TABULATION OF QUANTITIES **GENERAL NOTES**

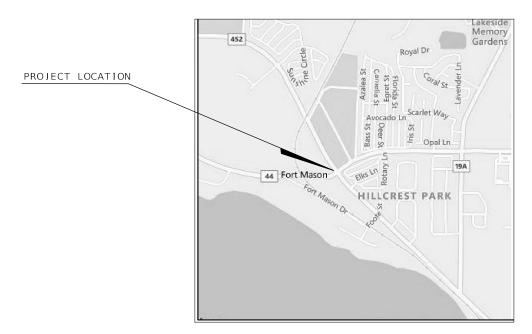
T-4 T**-**5 T-6 - T-7 T-8 T**-**9

SIGNALIZATION PLAN SIGNAL DETAILS **GUIDE SIGN WORKSHEET TEMPORARY SIGNAL** STRAIN POLE SCHEDULE SOIL BORINGS REPORT

FINANCIAL PROJECT ID 443511-1-58-01 F. A. NO. D521-020-B

SIGNALIZATION PLANS

CR 452 AND CR 44



DESCRIPTION Added Sheet T-2A; revised Sheet T-4, Note 17

KEY SHEET REVISIONS

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY 2020-21 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs)

Standard Plans for Road Construction and Associated IRs are available at the following website: http://www.fdot.gov/design/standardplans

Applicable IRs:

Standard Plans for Bridge Construction are included in the Structure Plans Componet.

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, JANUARY 2022 Standard Specifications for Road and Bridge Construction at the following website: http://www.fdot.gov/programmanagement/Implemented/Specbooks

SIGNALIZATION SHOP DRAWINGS TO BE SUBMITTED TO:

JAMES S. STROZ, JR. PE No. 56984

Traffic Engineering Data Solutions, Inc. 80 Spring Vista Drive Phone: 386.753.0558 DeBary, FL 32713 Fax: 386.753.0778

PLANS PREPARED BY:

Traffic Engineering Data Solutions, Inc.

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

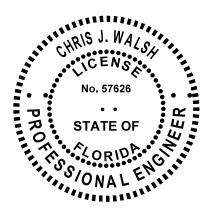
SUBMITTAL: FINAL DATE: JUNE 2021

> SIGNALIZATION PLANS ENGINEER OF RECORD: CHRIS J. WALSH, P.E.

P.E. NO.: 57626

SHEET NO.

T – 1



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

Christopher J Walsh 2021.11.11 11:10:08 -05'00'

ON THE DATE ADJACENT TO THE SEAL

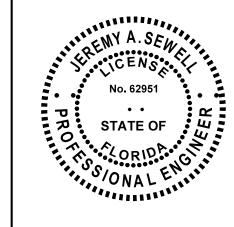
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TRAFFIC ENGINEERING DATA SOLUTIONS, INC. 80 SPRING VISTA DRIVE DEBARY, FLORIDA 32713 CHRIS J. WALSH, P.E. NO: 57626

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

T-1 KEY SHEET
T-2 SIGNATURE SHEET
T-3 TABULATION OF QUANTITIES

T-4 GENERAL NOTES
T-5 SIGNALIZATION PLAN
T-6 - T-7 SIGNAL DETAILS
T-8 GUIDE SIGN WORKSHEET



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Jeremy A Sewell 2021.11.11 10:33:37-05'00'

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TIERRA, INC. 591 SUSAN B. BRITT COURT WINTER GARDEN, FLORIDA 34787 JEREMY A. SEWELL, P.E. NO: 62951

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T-2 SIGNATURE SHEET
T-11 SOIL BORING REPORT



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Juan A Valenzuela 2021.11.11 10:37:46-05'00'

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FBT-FLORIDA BRIDGE AND TRANSPORTATION, INC. 633 DARTMOUTH STREET ORLANDO, FLORIDA 32804 JUAN VALENZUELA, P.E. NO: 68208

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T-2 SIGNATURE SHEET T-10 STRAIN POLE SCHEDULE

REVISIONS

DATE DESCRIPTION DATE DESCRIPTION





DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
350 N. SINCLAIR AVE.
TAVARES, FLORIDA 32778

SIGNATURE SHEET

SHEET NO.

T-2

USER\$ \$DATE\$ \$TIME\$ \$FILE



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

James S Stroz Digitally signed by James S Stroz Date: 2023.03.15 11:50:57 -04'00'

ON THE DATE ADJACENT TO THE SEAL

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TRAFFIC ENGINEERING DATA SOLUTIONS, INC. 80 SPRING VISTA DRIVE DEBARY, FLORIDA 32713 FRED D. FERRELL, P.E. NO: 419002

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T-1 KEY SHEET

T-2A SIGNATURE SHEET T-4 GENERAL NOTES

	REVIS		
DATE	DESCRIPTION	DATE	DESCRIPTION
3/13/23	ADDED NEW SIGNATURE SHEET T-2A		





DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
350 N. SINCLAIR AVE.
TAVARES, FLORIDA 32778

SIGNATURE SHEET

SHEET NO.

T-2A

SUSERS SDATES STIMES SE

			BULATIO						1		_	1	
PAY ITEM NO.	DESCRIPTION	UNIT	T-5								TO THIS S	TAL SHEET	
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL PLAN	FINA
)-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	156									156	
-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	242										
-2-14	CONDUIT, FURNISH & INSTALL, ABOVE GROUND	LF	60									60	
2-7-1	SIGNAL CABLE, NEW OR RECONSTRUCTED INTERSECTION, F&I	PI	1									1	
4-4-153	SPAN WIRE ASSEMBLY, F&I, TWO POINT, BOX OR DROP BOX	PI	1									1	
i-2-11	PULL & SPLICE BOX, F&I, 13"x24" COVER SIZE	EA	7									7	
5-2-13	PULL & SPLICE BOX, F&I, 30"x60" RECTNGLR CVR SIZE	EA	1									1	
9-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHSD BY CONTRACTOR FROM POWER COMPANY	AS	1									1	
9-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF	277									277	
-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA	1									1	
-2-18	PRESTRESSED CONCRETE POLE, F&I, TYPE P-VIII	EA	4									4	
-2-70	PRESTRESS CONC POLE, SHALLOW POLE REM- POLE 30' AND GREATER	EA	1									1	
-2-80	PRESTRESS CONC POLE, COMPLETE POLE REM- POLE 30' AND GREATER	EA	1									1	
)-1-14	TRAFFIC SIGNAL, F&I, ALUMINUM, 3 SECTION, 1 WAY	AS	9									9	
-1-16	TRAFFIC SIGNAL, F&I, ALUMINUM, 4 SECTION, 1 WAY	AS	4									4	
-3-11	VEHICLE DET SYS, MICROWAVE, F&I, CABINET EQUIPMENT	EA	1									1	
)-3-12	VEHICLE DET SYS, MICROWAVE, F&I, ABOVE GROUND EQUIPMENT	EA	4									4	
3-1-111	SIGNAL PRIORITY & PREEMPTION SYS, F&I, OPTICAL, CAB ELECTRONICS	EA	1									1	
-1-112	SIGNAL PRIORITY AND PREEMPTION SYSTEM, F&I, OPTICAL, DETECTOR	EA	4									4	
-5-111	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA, 1 PREEMPTION	AS	1									1	
-5-600	TRAFFIC CONTROLLER ASSEMBLY, REMOVE CONTROLLER WITH CABINET	AS	1									1	
5-1-13	UNINTERRUPTIBLE POWER SUPPLY, FURNISH & INSTALL, LINE INTERACTIVE WITH CABINET	EA	1									1	
)-5-22	INTERNALLY ILLUMINATED SIGN, F&I, OH MOUNT 12-18 SF	EA	4									4	
5-5-31	LUM & BRACKET ARM- ALUM, F&I NEW LUM AND ARM ON NEW/EXIST POLE	EA	3									3	

CHRIS J. WALSH, P.E. PE No. 57626

Traffic Engineering Data Solutions, Inc.
80 Spring Vista Drive Phone: 386.753.0558
DeBary, FL 32713 Fax: 386.753.0778
CERTIFICATION OF AUTHORIZATION # 27392

DATE

DESCRIPTION

DATE

DESCRIPTION



DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION 350 N. SINCLAIR AVE. TAVARES, FLORIDA 32778

TABULATION OF QUANTITIES

(352) 742-1766, PRIOR TO ANY CONSTRUCTION.
IT SHALL BE NOTED THAT NO TEST BORINGS BE MADE WHERE CONDUIT RUNS ARE TO BE INSTALLED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE THE JOB SITE CONDITIONS PRIOR TO SUBMITTING BID PROPOSALS.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING LAKE COUNTY TRAFFIC OPERATIONS, AT (352) 742-1766, 48 HOURS IN ADVANCE OF ALL PHASES OF CONSTRUCTION INCLUDING AND NOT LIMITED TO, INSTALLING SIGNAL POLES, GROUND RODS, UNDERGROUND CONDUIT, AND SIGNAL HEAD ASSEMBLIES.

DURING CONSTRUCTION TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE FDOT STANDARD PLANS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL NECESSARY PERMITS INCLUDING THE ELECTRIC PERMIT. THE APPLICATION FOR POWER SHOULD BE COORDINATED WITH THE CITY OF EUSTIS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE POWER COMPANY PROVIDING THE ELECTRICAL POWER, TO DETERMINE IF ANY ADDITIONAL FEES ARE REQUIRED TO CONNECT POWER. IF REQUIRED. THE FEE SHALL BE INCLUDED AS PART OF BID ITEM PAYMENT FOR ELECTRICAL SERVICE

7. THE EXACT LOCATIONS OF ALL UTILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR PRIOR TO BEGINNING OF CONSTRUCTION.

THE CONTRACTOR SHALL STAKE ALL POLE LOCATIONS AND HAVE IT APPROVED BY LAKE COUNTY TRAFFIC OPERATIONS.

THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY DEPARTMENT AT LEAST 48 HOURS IN ADVANCE OF POLE SETTING OPERATIONS WHERE A CONFLICT WITH OVERHEAD ELECTRICAL CONDUCTORS IS EXPECTED.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING THE PROPER AMOUNT OF RAKE WITH RESPECT TO LOADING TO BE USED ON POLES AT THE TIME OF INSTALLATION.

11. ALL MATERIALS AND HARDWARE SHALL BE F.D.O.T. APPROVED, AND PRE-APPROVED BY LAKE COUNTY TRAFFIC OPERATIONS.

ANY STRIPING/PAVEMENT MARKINGS OR LANSCAPING DESTROYED BY THE CONTRACTOR DURING

CONSTRUCTION SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE.

13. THE COST FOR THE USE OF "TRAFFIC CONTROL OFFICER" IN THE EVENT OF LANE CLOSURES SHALL BE INCIDENTAL TO THE WORK AND WILL NOT BE PAID SEPARATELY.

14. THE CONTRACTOR SHALL FURNISH LAKE COUNTY TRAFFIC OPERATIONS WITH EMERGENCY CONTACTS AND PHONE NUMBERS AND HAVE AN IMSA LEVEL II CERTIFIED SIGNAL TECHNICIAN ON CALL WITHIN A TWO HOUR MINIMUM RESPONSE TIME.

LOOPS/PULL BOXES:

15. PULL BOX COVERS SHALL BE FDOT APPROVED NON METALLIC WITH RECESSED COVER LOGO "TRAFFIC SIGNAL" OR "FIBER OPTICS" AS APPROPRIATE.

16. PULL BOXES SHALL BE LOCATED AWAY FROM EDGE OF PAVEMENT, OR BEHIND A CURB WHEN POSSIBLE, ATTEMPTING TO KEEP FROM THE BOTTOM OF A DITCH OR RETENTION AREA. AND WHERE LARGE VEHICLES PARK

UTILITY OWNERS:

CENTURYLINK	RON PRARIO	(407) 754-0116
CITY OF EUSTIS (W/WW)	RICK GIEROK	(352) 483-5480
FLORIDA GAS TRANSMISSION	JOSEPH SANCHEZ	(407) 832-3348
TECO ENERGY	BRUCE STOUT	(407) 420-2678
DUKE ENERGY FLORIDA (D)	ROBB BROWN	(407) 905-3376
DUKE ENERGY FLORIDA (T)	<i>JENNIFER WILLIAMS</i>	(813) 909-9210
COMCAST	SCOTT OSEBOLD	(352) 315-8527

CABINET/CONTROLLER:

(17. THE CABINET ASSEMBLY 70006-TS2/FL Type-6 WITH REAR DOOR TS2-1; WITH A TS2-1
INTELIGHT-OFRRE CONTROLLER XN-1 or XN-2 CONTROLLER ETHERNET ENABLED FOR COUNTY
CLOSED LOOP SYSTEM, TO INCLUDE AN ETHERNET SWITCH WITH BYPASS CAPABILITIES, TO
INCLUDE A GENERATOR SWITCH BOX PANEL.
18. UNINTERRUPTABLE POWER SUPPLY (UPS) SHALL BE STAND ALONE WITHIN ITS OWN CABINET,
INSTALLED ON A CONCRETE PAD ADJACENT TO THE CABINET BASE. THE UNINTERRUPTABLE
POWER SUPPLY SHALL BE ON THE FOOT APPROVED PRODUCTS LIST (APL).

19. A GENERATOR PAD 373747 CONCRETE SHALL BE INSTALLED WITH \$\frac{1}{2}! EYEROLT INSTALLED IN

A GENERATOR PAD, 3'X3'X4" CONCRETE SHALL BE INSTALLED WITH 🐉 EYEBOLT INSTALLED IN THE PAD ADJACENT TO CABINET BASE.

20. THE CABINET CONCRETE BASE SHALL BE A MINIMUM OF 32"x 48" TO ACCOMMODATE

TYPE 6 CABINETS.

GROUNDING FOR THE CONTROLLER ASSEMBLY SHALL MEASURE 25 OHMS. OR LESS.

THE CABINET DOOR SHALL OPEN AWAY FROM THE INTERSECTION WHEN POSSIBLE.

23. THE MOUNTING OF THE ELECTRICAL SERVICE TO THE TRAFFIC SIGNAL CABINET SHALL BE PROHIBITED.

24. AN ELECTRICAL SERVICE DISCONNECT WITH A 30 AMP BREAKER FOR THE TRAFFIC SIGNAL AND A 20 AMP BREAKER FOR THE OVERHEAD INTERNALLY ILLUMINATED STREET SIGNS SHALL BE INSTALLED AT THE TRAFFIC SIGNAL CABINET ON A SEPARATE POLE.

25. A MANUAL PUSH BUTTON CORD SHALL BE FURNISHED IN ALL CONTROLLER CABINETS.

SIGNAL/PEDESTRIAN HEADS:

26. SIGNAL HEADS SHALL BE WIRED DIRECTLY TO THE TERMINAL BLOCKS. THE USE OF "JONES" PLUGS IS PROHIBITED.

27. DISCONNECTS SHALL OPEN FROM THE SIGNAL FACE. (NOT FROM THE REAR)
28. SIGNAL HEADS SHALL BE WIRED PER IMSA NEMA PHASING, PHASES 2 AND 6 ARE TYPICALLY ASSIGNED TO MAJOR-STREET WITH PHASE 2 BEING SOUTH OR WEST BOUND THROUGH MOVEMENTS. THE USUAL CONVENTION IS FOR THROUGH PHASES TO BE NUMBERED IN THE CLOCKWISE DIRECTION STARTING WITH PHASE 2, AND THE LEFT-TURN PHASES TO BE NUMBERED IN THE CLOCKWISE DIRECTION, WITH PHASE 1 BEING THE ACCOMPANYING LEFT-TURN TO PHASE 6.

29. VEHICLE SIGNAL HEAD ASSEMBLIES SHALL BE BLACK, CAST ALUMINUM, WITH TUNNEL VISORS,

AND LED'S FOR ALL INDICATIONS, UNLESS OTHERWISE NOTED.
30. SIGNAL CABLE SHALL BE ATTACHED TO MESSENGER WIRE USING PROPER SIZE SPIRAL WRAP.
31. FOR SPAN WIRE ASSEMBLIES, THE DUAL POINT SPAN WIRE ATTACHMENT, SEE FDOT STANDARD PLANS INDEX 634-001.

ILLUMINATED STREET SIGNS:

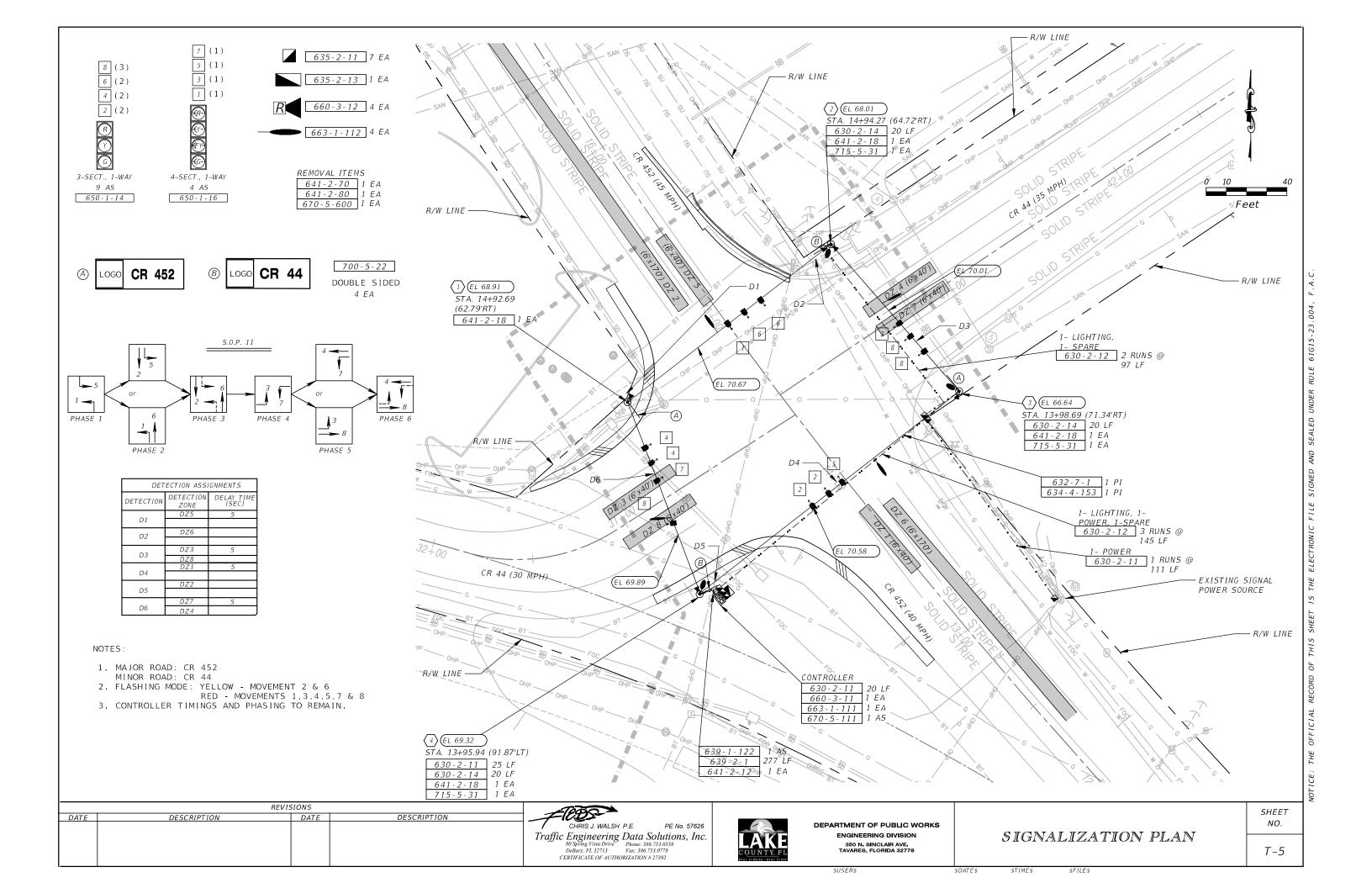
32. INTERNALLY ILLUMINATED STREET NAME SIGNS (LED), SHALL BE INSTALLED 1' BELOW THE MESSENGER CABLE WHERE POSSIBLE, POWERED BY A SEPARATE CIRCUIT BREAKER, AND BE MESSENGER CABLE WHERE POSSIBLE, POWERED BY A SEPARATE CIRCUIT BREAKER, AND DESIGNED AND INSTALLED IN ACCORDANCE WITH LAKE COUNTY PUBLIC WORKS INTERNALLY ILLUMINATED STREET NAME SIGN DETAIL AND SPECIFICATIONS. A PHOTOCELL SHALL BE INSTALLED NEAR THE ELECTRIC SERVICE WITHIN REACH OF A LIFT TRUCK. CARE TO BE GIVEN TO INSTALL WHERE STREET LIGHTING DOES NOT AFFECT OPERATION.

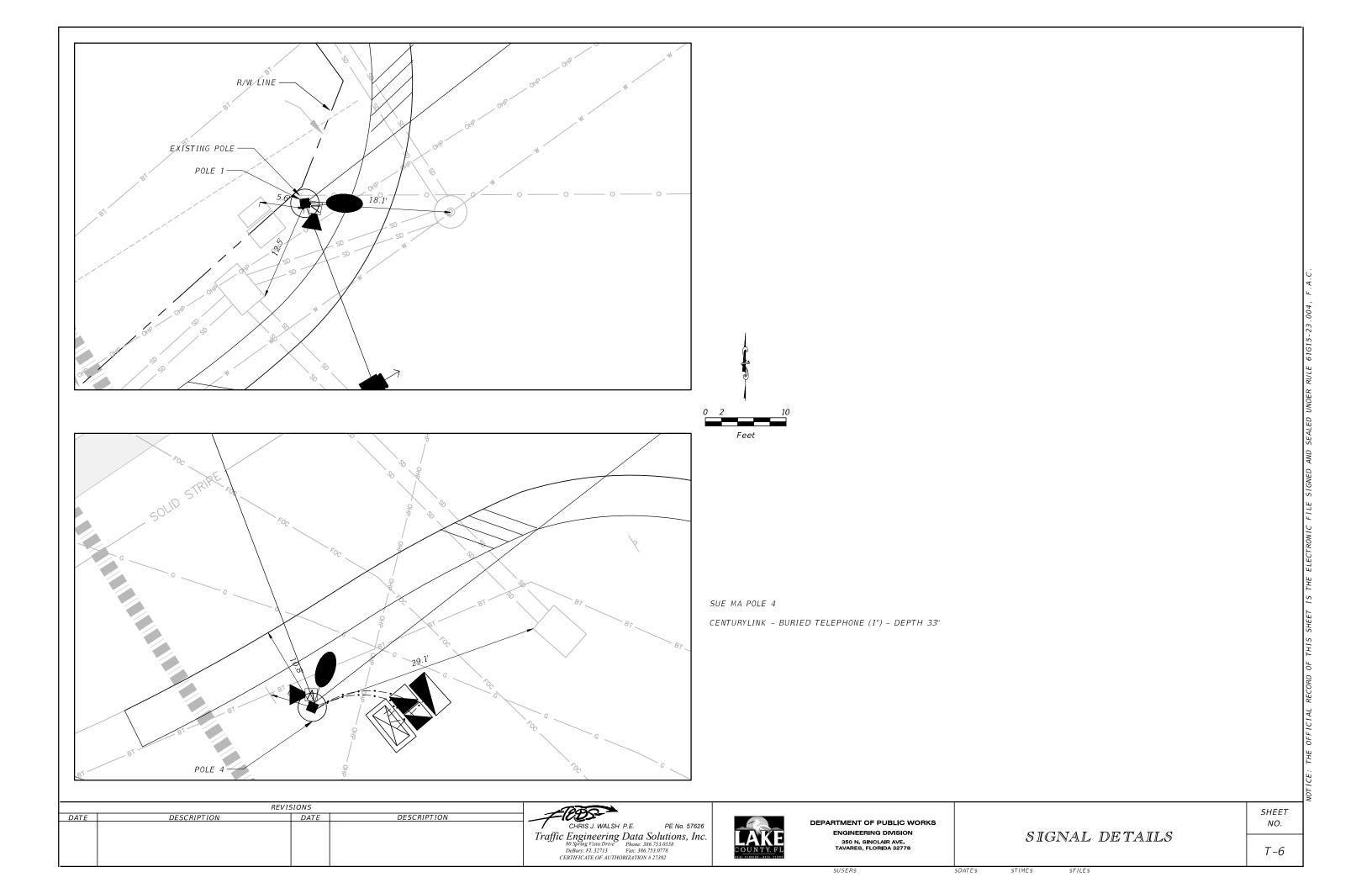
OTHER:

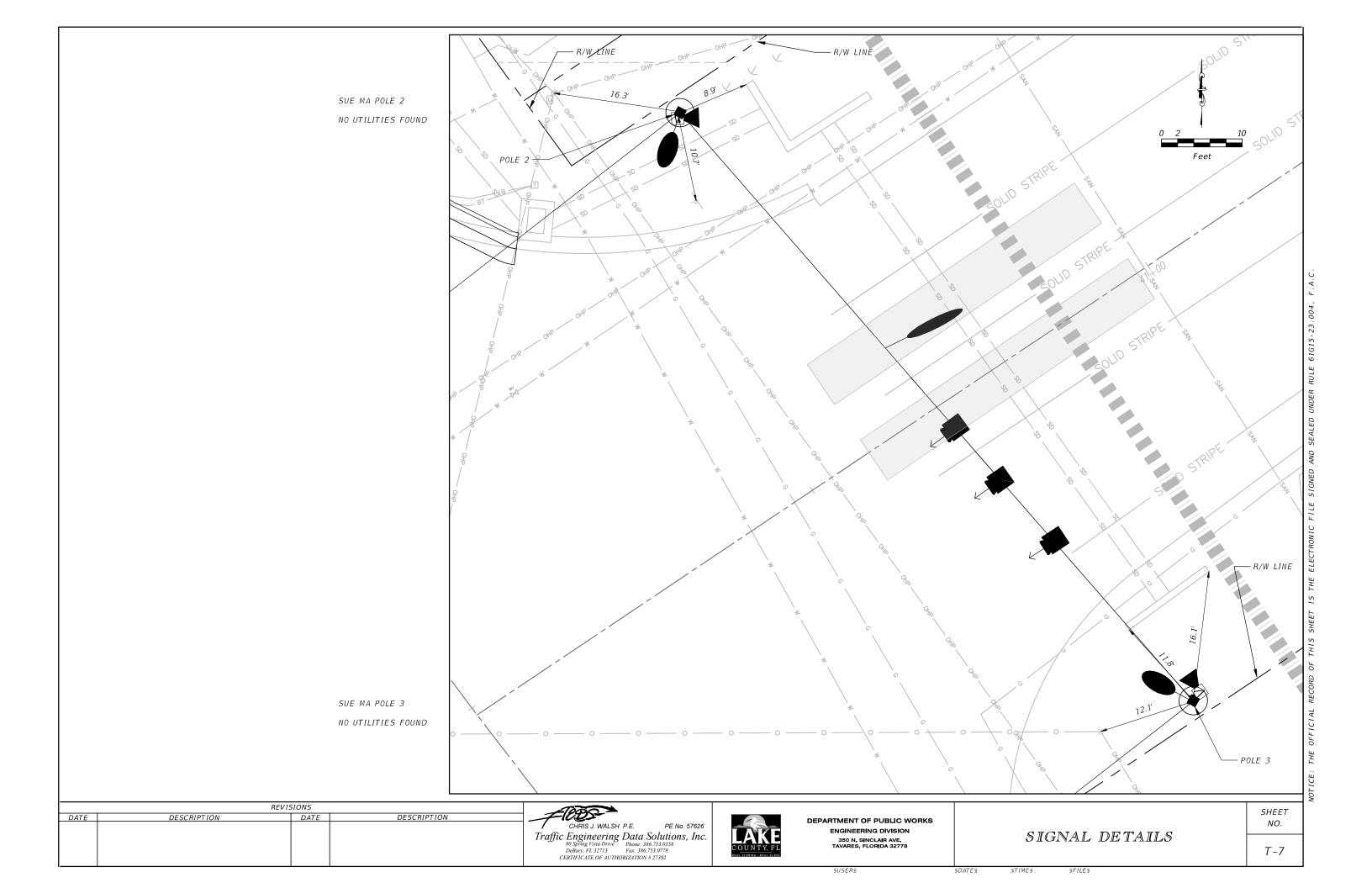
34. THE CONTRACTOR SHALL FURNISH LAKE COUNTY TRAFFIC OPERATIONS, TWO COMPLETE SETS OF AS-BUILT PLANS THAT INCLUDE CONDUIT AND PULL BOX LOCATIONS, AT FINAL INSPECTION. OPTICOM PREEMPTION OR EQUIVALENT SHALL BE USED WHEN EMERGENCY PREEMPTION IS REQUESTED. 36. A FIBER OPTIC VAULT AND CONDUIT INTO THE CONTROLLER ASSEMBLY SHALL BE INSTALLED.

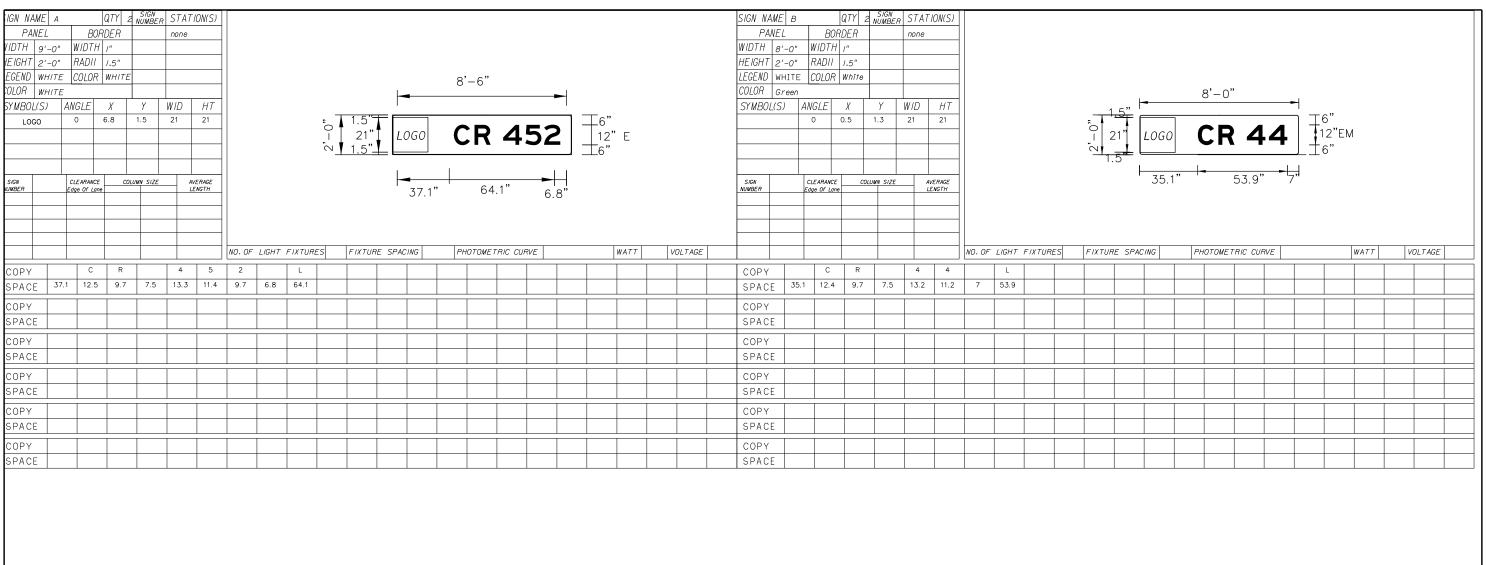
	REVI		47000	
DATE	DESCRIPTION	DATE	DESCRIPTION	
3/13/23	Revised Note 17 per Lake County Traffic Operations			JAMES S. STROZ, JR. P.E. PE No. 56984 Traffic Engineering Data Solutions, Inc. 80 Spring Vista Drive DeBary, FL 32713 Phone: 386, 753, 0558 Fax: 386, 753, 0778











		REVIS	72000			
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	I I (ED) -
						CHRIS J. WALSH, P.E. PE No. 57626 Traffic Engineering Data Solutions, Inc. 80 Spring Vista Drive Phone: 386.753.0558 DeBary, FL 32713 Fax: 386.753.0778



DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
350 N. SINCLAIR AVE.
TAVARES, FLORIDA 32778

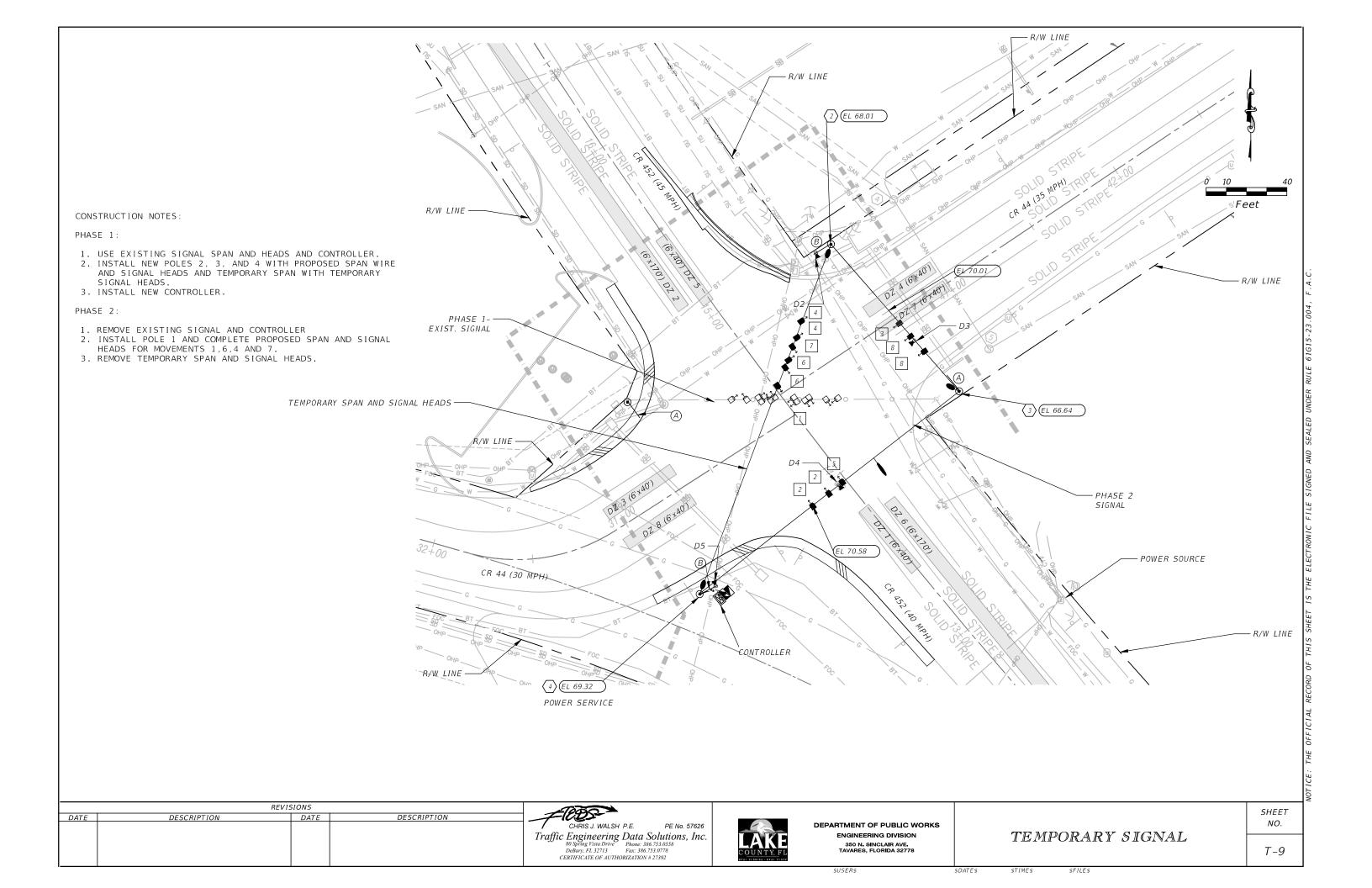
GUIDE SIGN WORKSHEET

SHEET NO.

T-8

\$USER\$ \$DATE\$ \$TIME\$ \$FILE\$

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C



POLE ID	SHEET NO.	POLE LO	OCAT I ON	FINAL	CROWN	POLE	POLE LENGTH
NO .		STATION	OFFSET	GRADE ELEVATION	ELEVATION	TYPE	(L)
1	T - 9	STA. 14+92.69	62.79'RT	68.91	70.67	P - VIII	52.00
2	T - 9	STA. 14+94.27	64.72'RT	68.01	70.01	P - VIII	54.00
3	T - 9	STA. 13+98.69	71.34'RT	66.64	70.58	P - VIII	54.00
4	T - 9	STA. 13+95.94	91.87'LT	69.32	69.89	P - VIII	52.00

CONCRETE STRAIN POLE DIMENSIONS

TYPES P-VIII

4'-0"

EYE BOLT

EYE BOLT

HEIGHT

- 1. WORK THIS SHEET WITH INDEX 641-010.
- 2. CABLE DIAMETER FOR BOTH MESSENGER AND CATERNARY WIRE MUST BE 3/8".
- 3. DESIGN OF THE STRAIN POLES, CABLES, AND FOUNDATIONS ARE BASED ON A DESIGN WIND SPEED OF 140 MPH, IN ACCORDANCE WITH THE JANUARY 2021 FDOT STRUCTURES MANUAL.
- 4. FOR POLE LOCATION AND SIGNAL INFORMATION SEE SIGNALIZATION PLANS.
- 5. DO NOT INSTALL BACKPLATES IN THE TEMPORARY DIAGONAL SPAN (POLE 2 AND POLE 4)
- 6. DESIGN OF THE FOUNDATIONS IS BASED ON BORINGS TAKEN 11/13/20, SEALED BY TIERRA, INC. THE FOLLOWING ASSUMED SOIL PROPERTIES ARE USED IN DESIGN:

STRAIN POLE SCHEDULE

POLES 1 THRU 4

SOIL TYPE = COHESIONLESS SOIL LAYER THICKNESS = 30 FT. SOIL FRICTION ANGLE = 29 DEG. SOIL EFFECTIVE UNIT WEIGHT = 43 PCF DESIGN WATER TABLE IS 0 FT. BELOW SURFACE

	REV I.	JUAN A. VALENZUELA, P.E.	
DATE	DESCRIPTION	P.E. LICENSE NUMBER 68208	
			FBT-FLORIDA BRIDGE AND TRANSPORTATION, IN
			633 DARTMOUTH STREET
			ORLANDO, FL 32804
			(407) 513-9709



DEPARTMENT OF PUBLIC WORKS **ENGINEERING DIVISION** 350 N. SINCLAIR AVE. TAVARES, FLORIDA 32778

STRAIN POLE SCHEDULE

POLE

HEIGHT (H)

35.09

37.24

37.86

36.18

DIMENSION (A)

7.53

7.53

7.53

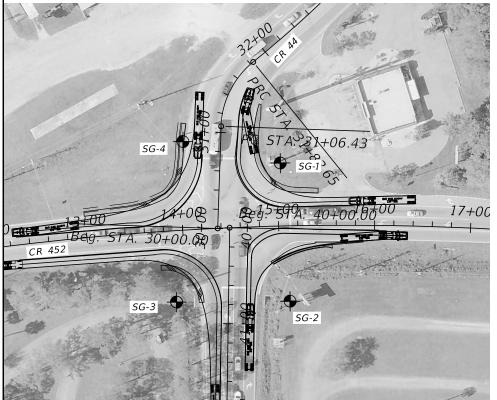
7.53

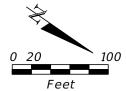
SHEET NO.

T-10

BORING LOCATION PLAN







SAND

CLAYEY SAND

SANDY CLAY TO CLAY

UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2488) GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.

SPT N-VALUE IN BLOWS/FOOT FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED)

-200 PERCENT PASSING #200 SIEVE NATURAL MOISTURE CONTENT (%)

LIQUID LIMIT (%) LL PLASTICITY INDEX (%)

OFF. ELEV.

APPROXIMATE LOCATION OF SPT BORING

ESTIMATED SEASONAL HIGH GROUNDWATER TABLE

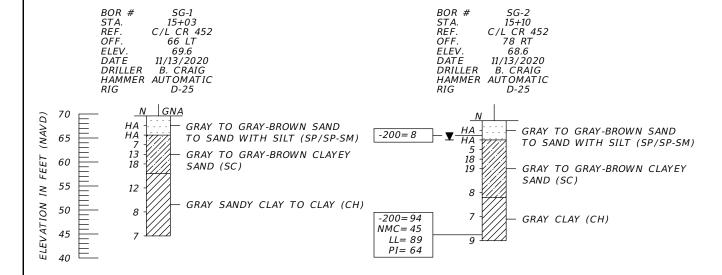
HAND AUGERED TO VERIFY UTILITY CLEARANCES

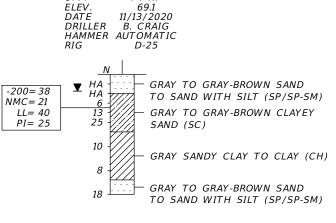
GROUNDWATER NOT APPARENT

NORTH AMERICAN VERTICAL DATUM OF 1988 NAVD

	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS-	SPT N-VALUE	SPT N-VALUE
RELATIVE DENSITY	(BLOWS/FT.)	(BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS	SPT N-VALUE	SPT N-VALUE
CONSISTENCY	(BLOWS/FT.)	(BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

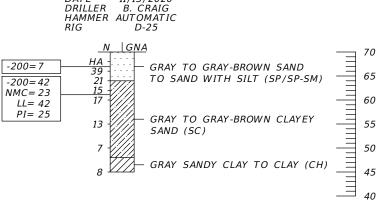
SOIL PROFILES





SG-3 13+89

C/L CR 452 74 RT



SG-4 14+06

C/L CR 452 92 LT 70.0

11/13/2020

OFF. ELEV. DATE

REVISIONS DATE DESCRIPTION

LAKE COUNTY 315 WEST MAIN STREET TAVARES, FL 32778

JEREMY A. SEWELL, P.E. P.E. LICENSE NUMBER 62951 TIERRA INC. 591 SUSAN B. BRITT COURT WINTER GARDEN, FL 34787

COUNTY ROAD 452 FROM CR 44 TO THE LAKE-MARION COUNTY LINE

FPID NO. 443511-1-58-01

REPORT OF CORE BORINGS

SHEET

12/8/2020 2:37:23 PM