SHEET NO. 0 F IGNAL SHEET DESCRIPTION PLANS

LAKE COUNTY

KEY SHEET/TABULATION OF QUANTITIES GENERAL NOTES (1 of 2)

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TABULATION OF QUANTITIES	INTERNALLY	STRAIN POLE DETAILS	FIBER OPTIC	SIGNALIZATIO	GENERAL NOTES (2 of 2)
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QUANTITIES	INTERNALLY ILLUMINATED SIGN DETAILS	AILS	AILS	AN SHEET	(2 of 2)
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TABULATION	
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QUANTITIE	
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ADOLATION DESCRIPTION				
ADOLATION DESCRIPTION	_	EA	CABINET	660-4-11
ADDULATION DESCRIPTION D	5	AS	PEDESTRIAN SIGNAL HEAD, 1 WAY, RELOCATE	653-1-40
ADOLATION DESCRIPTION	2	AS	TRAFFIC SIGNAL HEAD, 5-SECTION WITH BACKPLATE	650-1-19
ADOLATION DESCRIPTION DE	2	AS.	SIGNAL HEAD, 4-SECTION WITH	650-1-16
ADOLATION DESCRIPTION SHEET	7	AS		650-1-14
ADOLATION DESCRIPTION SHEET	4	ΕA	ALUMINUM PEDESTAL	646-1-11
ADOLATION DESCRIPTION	1	EA		641-2-18
DESCRIPTION	2	ΕA	STRAIN POLE, TYPE PVIII,	641-2-18
ADOLATION DESCRIPTION DE		ΕA	STRAIN POLE, TYPE PVIII,	641-2-18
DESCRIPTION MOBILIZATION MOBILIZATION MOBILIZATION MOBILIZATION MOBILIZATION MOBILIZATION MOBILIZATION MOBILIZATION LS 1 CONDUIT, UNDERGROUND CONDUIT, UNDER PAVEMENT CONDUIT, UNDER PAVEMENT CONDUIT, ABOVE GROUND (RISER) FIBER OPTIC CABLE, 12sm FIBER OPTIC TERMINATION FIBER OPTIC TERMINATION SPLICE ENCLOSURE SPLICE ENCLOSURE SPLICE TRAY FIBER OPTIC TERMINATED FIBER OPTICH PANEL, FIELD TERMINATED SPAN WIRE ASSEMBLY, BOX PI 1 PULL BOX EA 1 EA 1 EA 1 FIBER OPTICAL POWER SERVICE, UNDERGROUND LF 150 EA 5 ELECTRICAL SERVICE WIRE ELECTRICAL SERVICE WIRE CONDUIT, ABOVE AND FIRM ASS 1 SHERT OPTIC TERMINATED EA 1 EA 1 EA 1 EA 1 EA 5 EA 6 FIELD TERMINATED EA 6 ELECTRICAL SERVICE WIRE ELECTRICAL SERVICE WIRE		E	CONCRETE SERVICE POLE	641-2-12
ADOLATION DESCRIPTION DE	150		ELECTRICAL SERVICE WIRE	639-2-1
DESCRIPTION	1	AS.	POWER SERVICE,	639-1-121
ADOLATION OF QUANTITIES SHEET	6	E	PULL BOX	635-2-11
ADOLATION SHEET	1	₽	ASSEMBLY,	634-4-153
ADOLATION SHEET		2	PATCH PANEL, FIELD TERMINATED	633-3-16
ADOLATION SHEET	_	ΕA	SPLICE TRAY	633-3-12
ADOLATION OF QUANTITIES	1	EA	SPLICE ENCLOSURE	633-3-11
ADOLATION OF QUANTITIES SHEET	12	EA	FIBER OPTIC TERMINATION	633-2-32
ADOLATION OF QUANTITIES SHEET	12	EA	FIBER OPTIC SPLICE	633-2-31
O. DESCRIPTION MOBILIZATION LS 1	100			633-1-121
MOBILIZATION MOBILIZATION MAINTENANCE OF TRAFFIC CONDUIT, UNDER PAVEMENT CONDUIT, ABOVE GROUND (RISER) CONDUIT, ABOVE GROUND (RISER) CONDUIT, ABOVE GROUND (RISER) SHEET UNIT T-4 T-4 ORIG. FINA ILS 1 LS 1 LF 120 LF 120 LF 120	1	PI	SIGNAL CABLE	632-7-1
ADOLATION	100		GROUND	630-2-14
ADOLATION OF QUANTITIES DESCRIPTION MOBILIZATION MAINTENANCE OF TRAFFIC CONDUIT, UNDERGROUND DESCRIPTION LS 1 LS 1 LF 250	120		CONDUIT, UNDER PAVEMENT	630-2-12
I A D O LA I I O I Q O A N I I I I E J NO. MOBILIZATION DESCRIPTION LS 1 MAINTENANCE OF TRAFFIC LS 1	250		CONDUIT, UNDERGROUND	630-2-11
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DESCRIPTION SHEET SHEET)RIG. FINAL	_		ITEM NO.
IADULATION OF QUANTITIES		_	DESCRIPTION	BID
			ADOLATION OF COANTIL	

DEAD RIVER ROAD/LAKE H. SR 19 SIGNALIZATION PL S DUNCAN DRIVE & IARRIS DRIVE ANS

SIGNAL LOCATION Proposed Widened Section Dead River Rd Lake—Eustis (a) S. Duncan Caroline St 452 Lake Dora 452 avares 441 (d) OId US 441 (a) Bay St Eustis

PLANS PREPARED IN ACCORDANCE WITH FDOT STANDARD PLANS — BOOKLET DATED 2020—2021 AND LATEST INTERIMS.

GOVERNING SPECIFICATIONS: STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS DATED 2020.

641-2-70 650-1-60

534-4-600

33-1-60

REMOVE FIBER OPTIC CABLE

SIGNAL CABLE, REMOVE

ADJUST/MODIFY CONDUIT

INTERNALLY ILLUMINATED SIGNS, 2 SIDED, CANTILEVER

EA

℅

UNINTERRUPTIBLE POWER SUPPLY

CCTV CAMERA, DOME PTZ, NON-PRESSURIZED,

IP/HD

EA

8

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CONTROLLER ASSEMBLY WITH CABINET

39-1-610

665-1-60

REMOVE PEDESTRIAN DETECTOR

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S E

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100

REMOVE SIGNAL CABINET, PAD

STRAIN POLE, REMOVE (SHALLOW) ELECTRICAL POWER SERVICE, REMOVE SPAN WIRE ASSEMBLY, REMOVE

TRAFFIC SIGNAL HEAD, REMOVE

SIGN PANEL, REMOVE

663-1-112 663-1-111

PREEMPTION SYSTEM, DETECTOR

PEDESTRIAN DETECTOR

PREEMPTION SYSTEM, CABINET ELECTRONICS

VIDEO DETECTION SYSTEM, CAMERAS

360-4-12

365-1-11

70-5-111

82-1-133

85-1-13

sealed by Daniel W. Folsom, the date adjacent to the seal. This item has been digitally signed and sealed by **Daniel W. Folsom, P.E.** on

Printed copies of this document are not considered signed and sealed and the

signature must be verified on any

electronic copies.

SHEET T-1 OF T-7	KEY SHEET, TABULATION OF QUANTITIES
DANIEL FOLSOM FLORIDA P.E. NO. 66752 2-23-21	SR 19 / S DUNCAN DRIVE & DEAD RIVER ROAD/LAKE HARRIS DRIVE
TPD JOB# 5369 D6	LAKE COUNTY, FLORIDA



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ENERAL NOTES (1 Of

1) THE SIGNALIZATION PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION'S STANDARD PLANS, DATED 2020-2021 AND LATEST INTERMS. GOVERNING SPECIFICATIONS ARE THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, DATED 2020.

General,

MOT

2) THESE PLANS REFLECT CONDITIONS KNOWN DURING PLAN DEVELOPMENT. IN THE EVENT ACTUAL PHYSICAL CONDITIONS PREVENT THE APPLICATION OR THE PROGRESSION OF ANY WORK SPECIFIED IN THESE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY AND PRIOR TO ANY FURTHER WORK ACTIVITY.

4) 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 NOT LIMITED TO, INSTALLING SIGNAL POLES, GROUND RODS, UNDERGROUND CONDUIT, SIGNAL HEAD ASSEMBLIES, AND LOOP/VIDEO INSTALLATION. A PRE-CONSTRUCTION MEETING SHALL BE SCHEDULED WITH LAKE COUNTY TRAFFIC OPERATIONS, (352) 742-1766, PRIOR TO ANY CONSTRUCTION.

5) 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 MAXIMUM TWO HOUR RESPONSE TIME.

 $\pmb{6}$) CONTRACTOR TO NOTIFY FDOT 2 BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION.

8) 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 ASSEMBLY. 7) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL NECESSARY PERMITS INCLUDING THE ELECTRIC PERMIT. THE APPLICATION FOR POWER SHOULD BE COORDINATED WITH LAKE COUNTY TRAFFIC OPERATIONS.

9) THE CONTRACTOR SHALL NOTIFY SUNSHINE ONE-CALL 1-800-432-4770 AT LEAST 48 HOURS IN ADVANCE OF ANY EXCAVATION OR ANY WORK WHICH WOULD OTHERWISE INTEREPER WITH ANY ABOVE-CROUND OR BELOW-CROUND UTILITIES. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR MAINTAINING CURRENT LOCATE TICKET THROUGHOUT THE DURATION OF THE WORK.

10) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE LOCATION OF UNDERGROUND UTILITIES BEFORE DIGGING. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY OWNERS TO RESOLVE UTILITY CONFLICTS AND UTILITY ADJUSTMENTS. ALL UTILITIES WHICH REMAIN IN PLACE SHALL BE PROTECTED.

11) ALL MATERIALS AND HARDWARE SHALL BE FDOT APPROVED, AND PRE-APPROVED BY LAKE COUNTY TRAFFIC OPERATIONS.

12) IT SHALL BE NOTED THAT NO TEST BORINGS HAVE BEEN MADE WHERE CONDUIT RUNS ARE TO BE INSTALLED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE JOB SITE CONDITIONS BEFORE SUBMITTING BID PROPOSALS IN ACCORDANCE WITH SECTION 2-4 OF THE FDOT SPECIFICATIONS.

13) THE CONTRACTOR IS REQUIRED TO INSPECT THE INSTALLATION OF THE TRAFFIC SIGNALS IN ACCORDANCE WITH FOOT SPECIFICATION 105-5.10. THE CONTRACTOR SHALL COORDINATE THE FINAL ACCEPTANCE INSPECTION IN ACCORDANCE WITH FOOT SPECIFICATION 611-2.2 WITH THE ENGINEER AT LEAST 10 DAYS IN ADVANCE. LAKE COUNTY AND THE FOOT TRAFFIC SIGNAL QUALITY ASSURANCE MANAGER AT (386) 943-5318 SHOULD ALSO BE CONTACTED TEN DAYS BEFORE THE INSPECTION IS TO BE PERFORMED SO THEY MAY BE PRESENT. 14) MAINTENANCE OF TRAFFIC SHALL BE ESTABLISHED FOR TRAFFIC CONTROL THROUGH WORK ZONE IN ACCORDANCE WITH FDOT STANDARD PLANS, INDEX 102—600 SERIES.

16) THERE SHALL BE NO LANE CLOSURES BETWEEN THE HOURS OF 6:00 AM TO 10:00 AM AND 3:00 PM TO 8:00 PM. A MAXIMUM OF ONE LANE CAN BE CLOSED IN EACH DIRECTION DURING WORK PERIODS. ALL LANES ARE TO BE OPEN DURING INACTIVE PERIODS. 16) DURING NON-WORKING HOURS, NO EQUIPMENT, VEHICLES OR MATERIAL SHALL BE PARKED OR STORED MITHIN THE CLEAR ZONE OF THE ROADWAY CARRYING TRAFFIC. IF THE ABOVE IS NOT POSSIBLE, A STORAGE AREA WITH PROPER DELINEATION AND ADVANCED WARNING SHALL BE USED WITH THE APPROVAL OF THE ENGINEER.

18) EXISTING SIGNALIZATION SHALL REMAIN IN PLACE TO THE EXTENT POSSIBLE AND SHALL BE USED FOR THE MAINTENANCE OF TRAFFIC AS REQUIRED. 17) THE MAINTENANCE OF SIGNALS SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR, FROM THE TIME WORK BEGINS UNTIL FINAL ACCEPTANCE.

19) THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TEMPORARY DETECTION DURING CONSTRUCTION. THE USE OF RECALL ON VEHICLE AND PEDESTRIAN MOVEMENTS IS PROHIBITED.

20) IN THE EVENT PERMANENT VEHICLE DETECTION IS DISRUPTED, PROVIDE AN ALTERNATIVE MEANS OF DETECTION TO ALL LANES APPROACHING THE INTERSECTION, SEPARATING EACH MOVEMENT WHICH PREVIOUSLY HAD DETECTION. THE TYPE OF DETECTOR SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. EQUIPMENT SHALL ONLY DETECT THE INTENDED MOVEMENT.

21) 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.

22) ALL REMOVED EQUIPMENT SHALL BE DELIVERED TO LAKE COUNTY TRAFFIC OPERATIONS, 28127 C.R. 561, TAVARES, 352-742-1766, EXCEPT SIGNAL POLES, WHICH SHALL BE DISPOSED OF BY THE CONTRACTOR. CARE SHALL BE TAKEN NOT TO DAMAGE EQUIPMENT DURING THE REMOVAL PROCESS.

23) ANY STRIPING/PAVEMENT MARKINGS OR LANSCAPING DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE.

IN THESE PLANS, USE FDOT

25) THE MAINTAINING AGENCY FOR THE SIGNAL IS LAKE COUNTY.

treet Name Sign

26) ALL INTERNALLY ILLUMINATED STREET NAME SIGNS SHALL BE DOUBLE FACED UNLESS STATED OTHERWISE IN THE PLANS, AND SHALL BE ILLUMINATED WITH WHITE LEDS.

27) ALL INTERNALLY ILLUMINATED STREET NAME SIGNS SHALL BE LED.

29) INTERNALLY ILLUMINATED STREET NAME SIGNS (LED), SHALL BE INSTALLED 17 BELOW THE MESSENCER CABLE WHERE POSSIBLE, POWERED BY A SEPARATE CIRCUIT BREAKER, AND BE DESIGNED AND INSTALLED IN ACCORDANCE WITH LAKE COUNTY PUBLIC WORKS INTERNALLY ILLUMINATED STREET NAME SIGN DETAIL. 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.

Pull

31) PUIL BOXES AND COVERS SHALL BE FDOT APPROVED OF NON-METALLIC CONSTRUCTION WITH RECESSED COVER LOGO "TRAFFIC SIGNAL" OR "FIBER OPTIC" AS APPROPRIATE.

34) ALL CONDUIT SHALL BE SCHEDULE 40, 2 INCH (5 CM) DIA. MINIMUM UNLESS OTHERWISE SPECIFIED IN PLANS, EXCEPT ELECTRICAL POWER SERVICE DUCT. 33) ALL CONDUITS TO BE INSTALLED UNDER PAVEMENT OR SIDEWALK SHALL BE INSTALLATION OF THE BASE COURSE.

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

38) DURING THE INSTALLATION OF STRAIN POLE 2, ADJUSTMENTS TO EXISTING SIGNAL CONDUITS WILL BE NECESSARY. PAYMENT FOR THIS CONDUIT ADJUSTMENT SHALL BE A LUMP SUM, PER THE TABULATION OF QUANTITIES.

41) 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.

42) THE CONTRACTOR SHALL INSTALL A CONDUIT STUB WITH CAP A MINIMUM OF 12 INCHES (30 CM) OUTSIDE THE POLE FOOTING COMPLETE WITH SWEEP UP INTO THE POLE, IN EACH CONDUIT ENTRANCE IN THE POLE. THE FOOTING, TOP OF SIDEWALK, SIDE OF POLE, ETC. SHALL BE MARKED WITH AN APPROPRIATE ETCHED "X" IN ORDER THAT IT MAY BE READILY LOCATED FOR FUTURE USE.

43) OVERHEAD PROXIMITY EXISTS BETWEEN EXISTING/PROPOSED SIGNAL EQUIPMENT AND DUKE ENERGY DISTRIBUTION/TRANSMISSION FACILITIES. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH DUKE ENERGY AND RESOLVE OVERHEAD COMPLICIT(S). CONTRACTOR SHALL MEET ALL ASSOCIATED REQUIREMENTS REGARDING CONSTRUCTION PROCEDURES, POWER LINE ADJUSTMENTS/OUTAGES, AND FINAL EQUIPMENT POSITIONS/CLEARANCES.

SHEET T-2 OF T-7

DANIEL FOLSOM FLORIDA P.E. NO. 66752

TPD JOB# 5369

2-23-21

D6

Controller, F/O Cable 0 Ca ble Video ower

28) THE CONTRACTOR SHALL INSTALL AND TEST IN PLACE THE INTERNALLY ILLUMINATED STREET NAME SIGNS, THE SIGNS ARE TO BE BURNED IN FOR 60 DAYS BEFORE FINAL ACCEPTANCE. THE SIGNS SHALL BE BREAKERED SEPARATELY FROM THE SIGNAL CABINET AND SHALL BE CONTROLLED BY ONE MASTER PHOTOCELL.

30) 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.

Boxes, Conduit

32) 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.

35) ALL ENDS OF CONDUITS IN PULL BOXES AND CABINETS SHALL BE SEALED WITH ELECTRICAL PUTTY AFTER WRING IS COMPLETE.

oncrete Strain Poles

37) THE CONTRACTOR SHALL HAND DIG THE FIRST 2' AT EACH PEDESTAL AND FIRST 4' AT EACH STRAIN POLE, TO VERIFY NO UTILITY CONFLICTS. CONTACT THE ENGINEER FOR SOFT DIG REPORTS AND LOCATION TIES.

39) THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY DEPARTMENT AT LEAST 48 HOURS IN ADVANCE OF POLE SETTING OPERATIONS WHERE A CONFLICT WITH OVERHEAD CONDUCTORS IS EXPECTED, AND IN ALL CASES WHERE JOINT USE POLES ARE TO BE USED.

40) ALL ELEVATIONS SHOWN IN THIS PLAN SET SHALL BE CONFIRMED BY THE CONFRACTOR PRIOR TO THE ORDERING OF STRAIN POLES.

Service, Detection

44) THE CONTROLLER ASSEMBLY SHALL BE A LAKE COUNTY NAZTEC REGIONAL TS2-T; WITH A TS2-2 CONTROLLER ETHERNET ENABLED FOR COUNTY CLOSED LOOP SYSTEM, TO INCLUDE AN ETHERNET SWITCH WITH BYPASS CAPABILITIES, TO INCLUDE A GENERATOR SWITCH BOX PANEL TYPE 6 CABINET.

45) 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 FDOT APPROVED PRODUCTS LIST (APL). 46) A GENERATOR PAD, 3'X3'X4' CC EYEBOLT INSTALLED IN THE PAD AD NCRETE SHALL BE INSTALLED WITH 5/8"
JACENT TO CABINET BASE.

47) THE CABINET CONCRETE BASE SHALL BE A MINIMUM OF $32^{\circ}\times$ 48" TO ACCOMMODATE TYPE 6 CABINETS.

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

49) THE CABINET DOOR SHALL OPEN AWAY FROM THE INTERSECTION.

51) AN ELECTRIC 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 NEAR THE TRAFFIC SIGNAL CABINET ON A SEPARATE CONCRETE POWER SERVICE PEDESTAL. 50) THE MOUNTING OF THE ELECTRICAL SERVICE TO THE TRAFFIC SIGNAL CABINET SHALL BE PROHIBITED.

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

53) THE FIRST BUFFER (BLUE BUFFI TERMINATED IN THE CABINET USING ER) OF SINGLE MODE FIBER SHALL BE SC CONNECTORS.

55) see plan sheet for the number of video cameras included in the video detection assembly. 54) A SECOND DETECTION RACK SHALL BE INCLUDED IF NECESSARY.

56) NO VIDEO DETECTION IS TO BE INSTALLED ON STRAIN POLES OR CANTILEVER ARMS. SPAN WIRE PLACEMENT IS REQUIRED (ITERIS SMARTSPAN OR EQUIVALENT).

58) ITEM 633-1-60 (REMOVE FIBER OPTIC CABLE) SHALL ALSO INCLUDE REMOVAL OF THE ASSOCIATED SPLICE ENCLOSURE, AND THE CLIPPING OF EXISTING BLUE BUFFER TUBE FIBERS OF THE 96sm CABLE FOR USE IN NEW SPLICES (COVERED UNDER SEPARATE ITEMS). 57) AS APPLICABLE, DETECTION ZONE DELAY TIMES SHALL BE SET TO 5 SECONDS.

59) AT THE CONTRACTOR'S OPTION, THE EXISTING 12sm FIBER OPTIC DROP CABLE MAY BE RE-USED FOR CONNECTION TO THE NEW SIGNAL CONTROLLER. IN THIS CASE, THE NEW DROP CABLE MILL NOT BE NECESSARY AND THE QUANTITY SHALL BE DELETED, WITH OTHER QUANTITIES ADJUSTED ACCORDINGLY.

50) EXISTING FIBER OPTIC CABLES OWNED BY SUMMIT BROADBAND (SEE SHEET T-5) MILL BE RECONNECTED TO THE SIGNAL CONTROLLER BY SUMMIT PERSONNEL. CONTROLOR BY SHALL CONTACT MICHAEL RINESMITH AT (239) 571-0568 AND BOB ONCOVY AT (352) 255-1675 TWO WEEKS PRIOR TO ORDERING CABINET EQUIPMENT, N ORDER TO COORDINATE TECHNICAL REQUIREMENTS.

31) OPTICOM PREEMPTION OR EQUIVALENT SHALL BE USED WHEN EMERGENCY REEMPTION IS REQUESTED.

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GENERAL NOTES (1 of 2)
 SR 19 / S DUNCAN DRIVE & DEAD RIVER ROAD/LAKE HARRIS DRIVE
LAKE COUNTY, FLORIDA

GENERAL NOTES (2 of 2)

Signal Heads, Cables

61) ALL SIGNAL INDICATIONS SHALL BE LED. LED SIGNAL PRODUCT INFORMATION SHALL BE SUBMITTED TO LAKE COUNTY AND FDOT FOR APPROVAL.

70) SIGNAL HEADS SHALL BE WIRED PER IMSA NEMA PHASING, PHASES 2 AND 6 ARE TYPICALLY ASSIGNED TO MAJOR-STREET WITH MASE 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 ACCOMPANYING LEFT—TURN TO PHASE 6. 69) DISCONNECTS SHALL OPEN FROM THE SIGNAL FACE. (not from the rear)

72) RELOCATION OF PEDESTRIAN SIGNS/SIGNALS SHALL INCLUDE INSTALLATION OF NEW MOUNTING BRACKETS/HARDWARE, IF NECESSARY. 71) NO POLYCARBONATE HOUSING OR MOUNTING HARDWARE WILL BE PERMITTED FOR SIGNAL HEAD ASSEMBLIES. ALL LENSES FOR THESE HEADS SHALL BE GLASS. ALL SIGNAL HEADS SHALL BE BLACK CAST ALUMINUM. TUNNEL VISORS AND BACK PLATES (WITH YELLOW RETROREFLECTIVE BORDER) SHALL BE USED ON ALL SIGNAL HEADS. PAYMENT FOR ALL SHALL BE INCLUDED IN 650-1-XX.

75) ALL PEDESTRIAN SIGNAL HEAD ASSEMBLIES SHOWN ARE EXISTING - TO REMAIN OR EXISTING - TO BE RELOCATED. 74) 3 SPARE CONDUCTORS SHALL BE RUN TO THE FURTHEST PEDESTRIAN SIGNAL HEAD. VEHICULAR SIGNAL HEADS SHALL HAVE 3 SPARES PER PHASE. 73) CONTRACTOR IS TO INSURE THAT A 4'x4' FLAT LANDING AREA (522–1) IS ADJACENT TO ALL PED BUTTONS FOR PEDESTRIAN ACCESS.

Rev. 6/18/2015 JHG

76) ALL PEDESTRIAN SIGNALS NOT MOUNTED ON EXISTING PEDESTALS OR PROPOSED SIGNAL POLES SHALL BE ON ALUMINUM PEDESTALS OF THE BREAKAWAY TYPE COMMONLY REFERRED TO AS A "T-BASE". THIS T-BASE WILL HAVE AN ACCESS DOOR FOR WIRING AND MAINTENANCE.

77) SIGNAL CABLE SHALL BE ATTACHED TO MESSENGER WIRE USING PROPER SIZE SPIRAL WRAP.

78) FOR SPAN WIRE ASSEMBLIES, THE DUAL POINT SPAN WIRE ATTACHMENT, FOOT STANDARD PLANS INDEX 634-001 REQUIRING A TRI-STUD ADJUSTABLE HANGER, EXTENSION CONNECTOR, SPAN WIRE CLAMP AND MESSENGER WIRE CLAMP SHALL BE USED.

68) ALL FIELD WRING SHALL BE NEATLY BUNDLED AND CLEARLY IDENTIFIED WITH PERMANENT LEGIBLE, WEATHERPROOF TAGS THAT ARE SECURED AT ACHED TO EACH CABLE. THE TAGGING SYSTEM PROPOSED SHALL BE SUBMITTED FOR APPROVAL WITH THE OTHER EQUIPMENT SUBMITTALS REQUIRED FOR THIS PROJECT. 67) THE CONTRACTOR SHALL VERIFY COLOR CODES FOR SIGNAL CABLE WITH LAKE COUNTY BEFORE ORDERNO, WRING DIAGRAMS SHALL BE IN ACCORDANCE WITH LAKE COUNTY SECIFICATIONS, SEE LAKE COUNTY SIGNAL CABLE WRING COLOR CODE ON THIS SHEET FOR FURTHER DETAILS. 62) CIRCULAR DRIP LOOPS (MINIMUM ONE CIRCLE) ARE TO BE PROVIDED AT ALL AERIAL DISCONNECT HANGERS, INTERCONNECT JUNCTION BOXES, ELECTRICAL SIGNS, AND POLE JUNCTIONS. 65) SIGNAL HEADS SHALL BE WIRED DIRECTLY TO THE TERMINAL BLOCKS. THE USE OF JONES' PLUGS IS PROHIBITED. 64) the inside lane disconnect shall be wired for future 5 section signal heads. 63) ALL SIGNAL ASSEMBLIES SHALL HAVE A VERTICAL CLEARANCE OF 17.5 FEET (5.3 METERS) MINIMUM AND 19 FEET (5.8 METERS) MAXIMUM FROM THE BOTTOM OF THE ASSEMBLY TO THE ROAD. 66) THREE SPARE WIRES ARE REQUIRED PER SIGNAL CABLE.

Green Arrow

Orange/Black Green/Black Black/White Blue/Black Red

Orange/Black Green/Black Blue/White Green/White

5 Section

3 Section Protected

Phase 4 & 8

16 Spares

8-10 spares Orange Green

Side Street Colors & Disconnect Terminals
Cable Color Cable Color 16 cond.
Red/Black Red/Black

shing Yellow Arrow

Pedestrian Cab	Pedestrian Cable Wiring - Main Street 12 or 16	or 16
Don't Walk	Red	
Walk	useus	
Pushbutton	Stange	
Pushbutton return	Black	
Nautra	BRIMM	
Pedestriar	Pedestrian Cable Wiring - Side Street	*
Don't Walk	Red/Black	
Walk	Green/Black	
Pushbutton	Orange/Black	
Pushbutton return	Black/White	
Neutral	White/Black	
Chara	المعالق هاراه	

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 phases to be numbered in the clockwise direction, with Phase clockwise direction starting 1 being accompanying left-turn to Phase 6 with Phase 2, and the left-turn

Lake County Signal No

MA Phasing per IMSA

Main Street S _ Barrier 0 N Side Street 4 ω

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SHEET T-3 OF T-7	GENERAL NOTES (2 of 2)
DANIEL FOLSOM FLORIDA P.E. NO. 66752	/
2-23-21	DEAD RIVER ROAD/LAKE HARRIS DRIVE
TPD JOB# 5369 D6	LAKE COUNTY, FLORIDA
_	



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TRAFFIC PLANNING AND DESIGN, INC.	N/A	
	SCALE	1

535 Versailles Drive	Maitland, FL 32751	
Tel: (407) 628-9955	Fax: (407) 628—8850 www.tpdtraffic.com zation No. EB—3702	1
info@tpdtraffic.com	www.tpdtraffic.com	1
Certificate of Authori	zation No. EB—3702 [2
		7

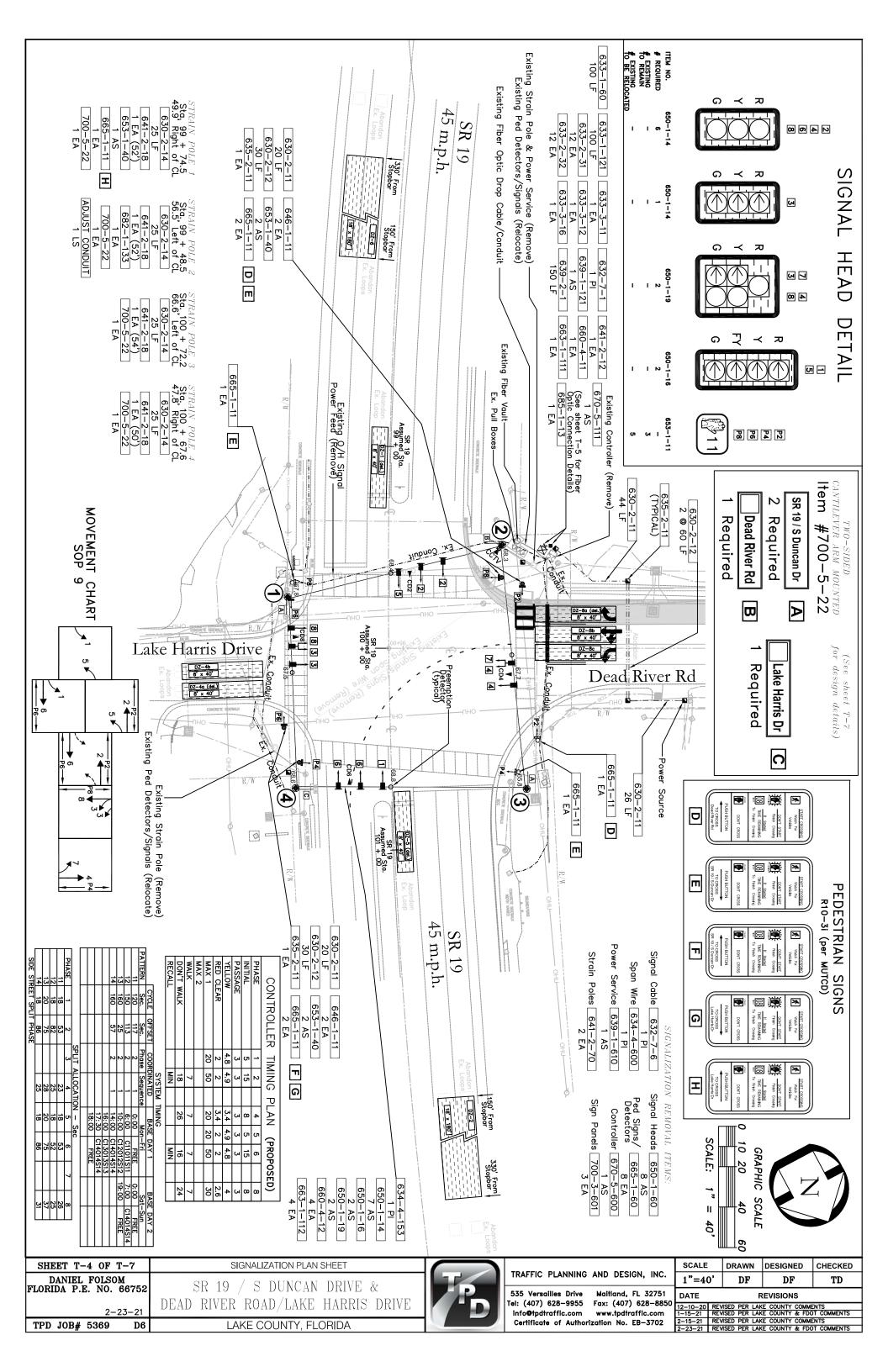
SCALE	DRAWN			DESIGNED			CHECKED					
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DATE REVISIONS												
12-10-20								ОММЕ				
1-15-21								: FDC			MEN	NTS
2-15-21								OMME				
2-23-21	REV	ISED	PER	LAK	E CC	TNU	Y 8	: FDC	T	COM	IMEN	NTS

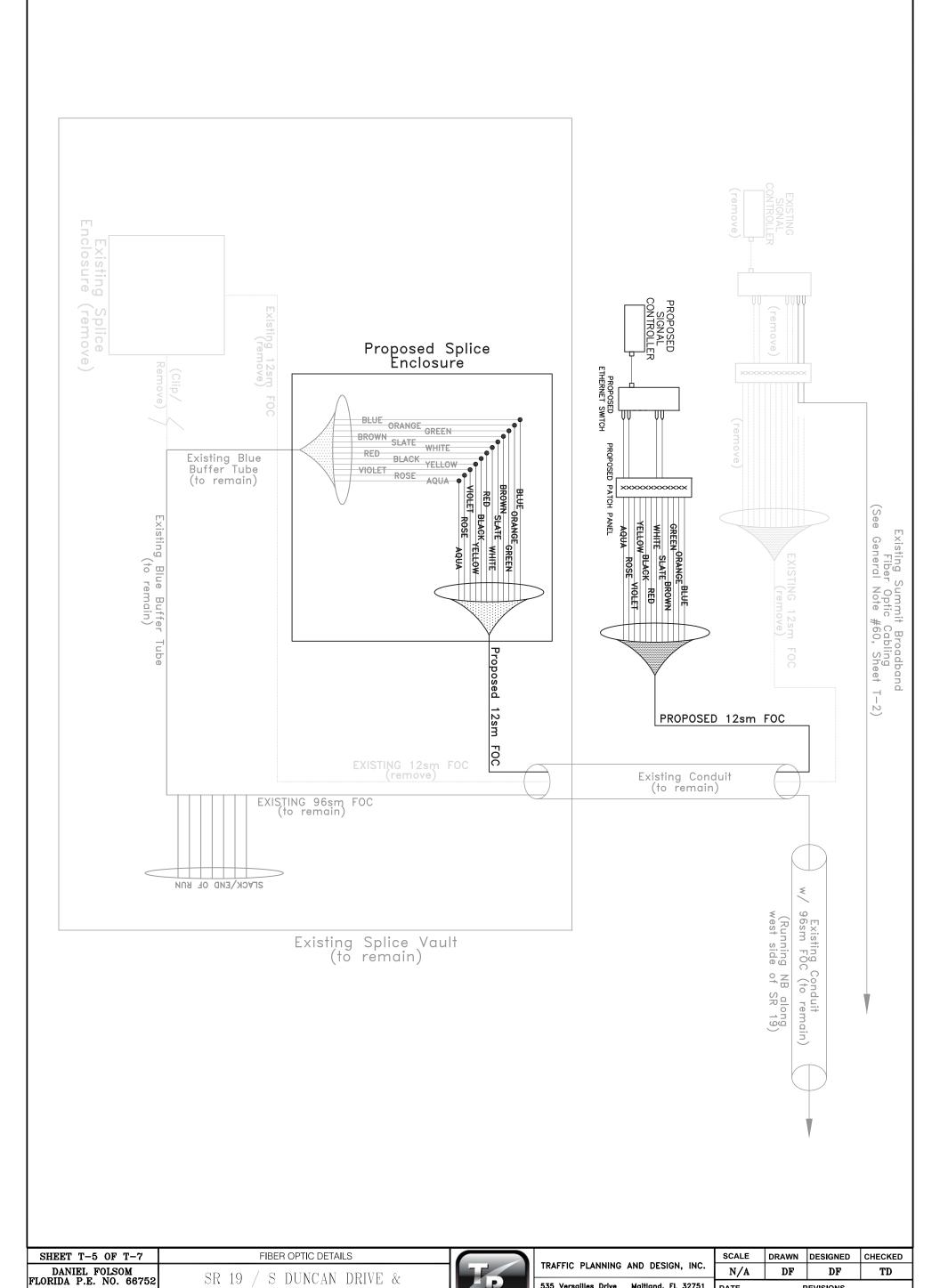
Lake County Signal Cable Wiring Color Code

5 Section

Red/black Green/black

Phase 286





DEAD RIVER ROAD/LAKE HARRIS DRIVE

LAKE COUNTY, FLORIDA

2-23-21

D6

TPD JOB# 5369

535 Versailles Drive Maitland, FL 32751 Tel: (407) 628-9955 Fax: (407) 628-8850

Certificate of Authorization No. EB-3702

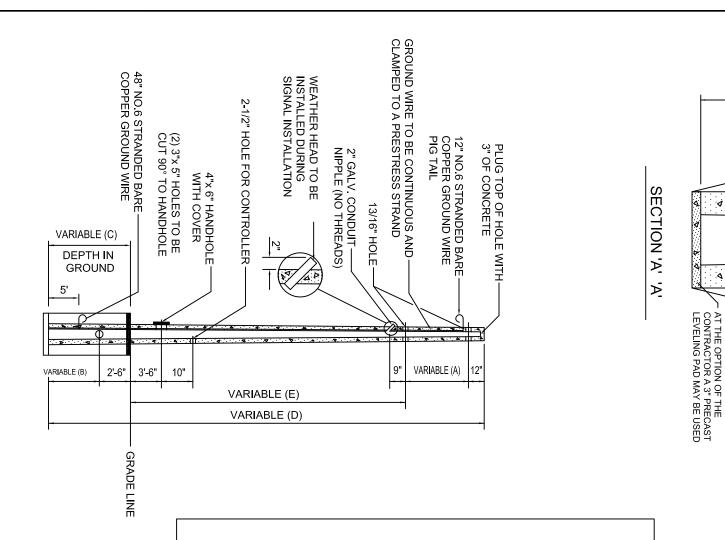
www.tpdtraffic.com

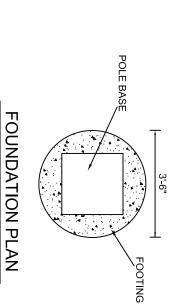
info@tpdtraffic.com

REVISIONS

12-10-20 REVISED PER LAKE COUNTY COMMENTS
1-15-21 REVISED PER LAKE COUNTY & FDOT COMMENTS
2-15-21 REVISED PER LAKE COUNTY COMMENTS
2-23-21 REVISED PER LAKE COUNTY & FDOT COMMENTS

DATE





VARIABLE (C)

BACKFILL

6" Max

PROPOSED LOADING

<u>GENERAL NOTES:</u>

- The footing depth shall be no less than The method for wire attachment to the concrete poles shall be two point. the pole embedment length.
- It is the responsibility of the contractor to have exact locations of
- 3. All materials and hardware shall be preapproved by Lake County
- 4. An 17.5'-19' clearance shall be maintained between the road surface and the bottom of signal head assemblies.

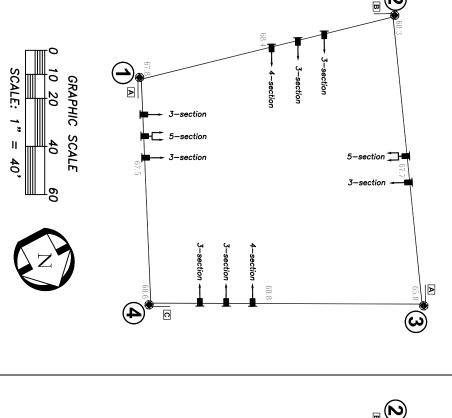
 - all utilities prior to beginning work.

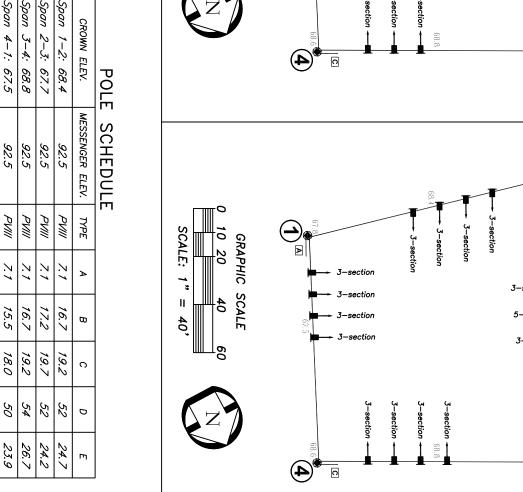


6. Messenger cable shall be 7/16" diameter,

Utility Grade.

Catenary cable shall be 3/8" diameter, Utility Grade.





641-2-18

68.6 65.8 68.3 67.8

Span

641-2-18 641-2-18

ITEM NO.

POLE

BASE ELEV.

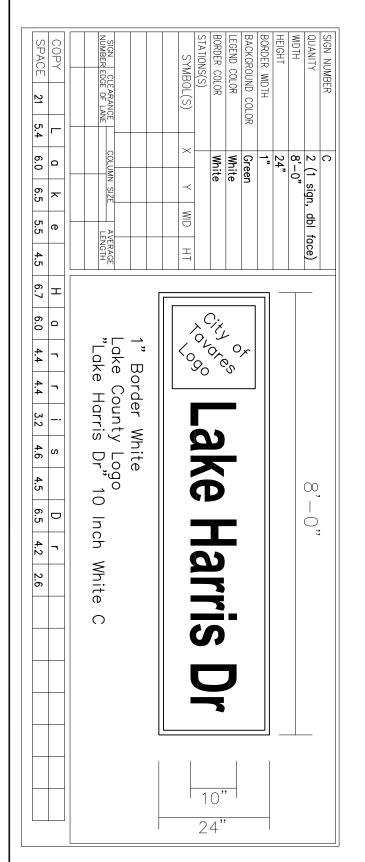
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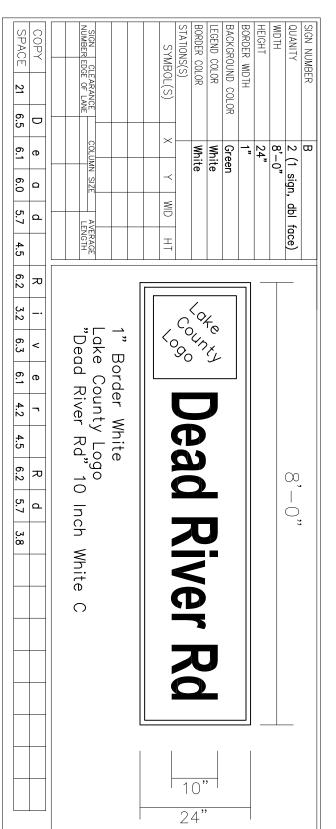
SHEET T-6 OF T-7	STRAIN POLE DETAILS
DANIEL FOLSOM FLORIDA P.E. NO. 66752 2-23-21	SR 19 / S DUNCAN DRIVE & DEAD RIVER ROAD/LAKE HARRIS DRIVE
TPD JOB# 5369 D6	LAKE COUNTY, FLORIDA

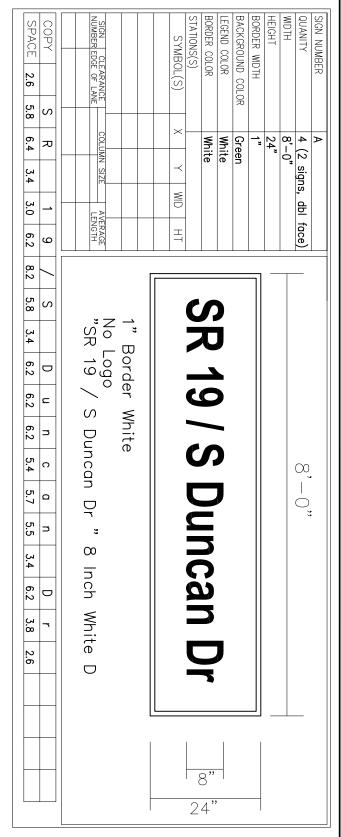


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TRAFFIC PLANNING AND DESIGN, INC.	As
535 Versailles Drive Maitland, FL 32751	DAT
535 Versailles Drive Maitland, FL 32751 Tel: (407) 628-9955 Fax: (407) 628-8850 info@tpdtraffic.com www.tpdtraffic.com	12-10 1-15-
Certificate of Authorization No. FR-3702	2-15-

	SCALE		RAWN	DESIGN	ED	CHECKED		
	As Noted		DF	DF		TD		
0	12-10-20	REVISE	D PER LA	KE COUNTY	COMME	NTS		
	1-15-21					T COMMENTS		
	2-15-21	REVISE	D PER LA	KE COUNTY	COMME	NTS		
	2-23-21	REVISE	D PER LA	KE COUNTY	& FDO	T COMMENTS		







DITERMINATED GIOLOGICAL	
SHEET T-7 OF T-7 INTERNALLY ILLUMINATED SIGN DETAILS	
DANIEL FOLSOM FLORIDA P.E. NO. 66752 SR 19 / S DUNCAN DRIVE & DEAD RIVER ROAD/LAKE HARRIS DRIV	Е
TPD_JOR#_5369 D6 LAKE COUNTY FLORIDA	



	SCALE	DRAWN	DESIGNED	CHECKED	
TRAFFIC PLANNING AND DESIGN, INC.	N/A	DF	DF	TD	
535 Versailles Drive Maitland, FL 32751	DATE REVISIONS 12-10-20 REVISED PER LAKE COUNTY COMMENTS				
Tel: (407) 628-9955 Fax: (407) 628-8850	12-10-20 RE	VISED PER LAK	E COUNTY COMME	ENTS	
info@tpdtraffic.com www.tpdtraffic.com	1-15-21 RE	vised per lak	E COUNTY & FDO	T COMMENTS	
Certificate of Authorization No. EB-3702			E COUNTY COMME		
	2-23-21 RE	VISED PER LAK	E COUNTY & FDO	T COMMENTS	