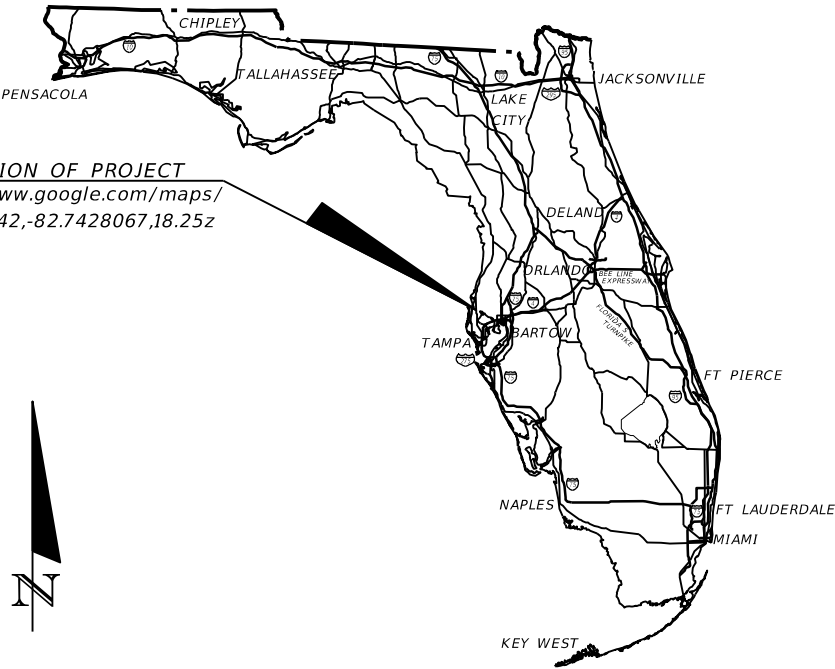


CITY OF  
TARPON SPRINGS

PLANS OF PROPOSED

FINANCIAL PROJECT ID 443580-1-58-01  
(FEDERAL FUNDS)  
PINELLAS (15150)

TARPON AVENUE FROM S HUEY AVENUE TO US HWY 19



LOCATION OF PROJECT  
[https://www.google.com/maps/  
@28.1461142,-82.7428067,18.25z](https://www.google.com/maps/@28.1461142,-82.7428067,18.25z)



END PROJECT  
STA. 115+24.18  
MP 0.237  
CONST. TARPON AVENUE

CALL SUNSHINE 811  
48 HOURS BEFORE YOU DIG  
1-800-432-4770

ROADWAY PLANS  
ENGINEER OF RECORD:

ERIK C. LESCHAK, P.E. NO: 63874  
C/O AMERICAN CONSULTING ENGINEERS OF FLORIDA, LLC  
2818 CYPRESS RIDGE BOULEVARD SUITE 200  
WESLEY CHAPEL, FLORIDA 33544  
(813) 435-2600  
CERTIFICATE OF AUTHORIZATION NO. 9302

PLANS PREPARED BY:

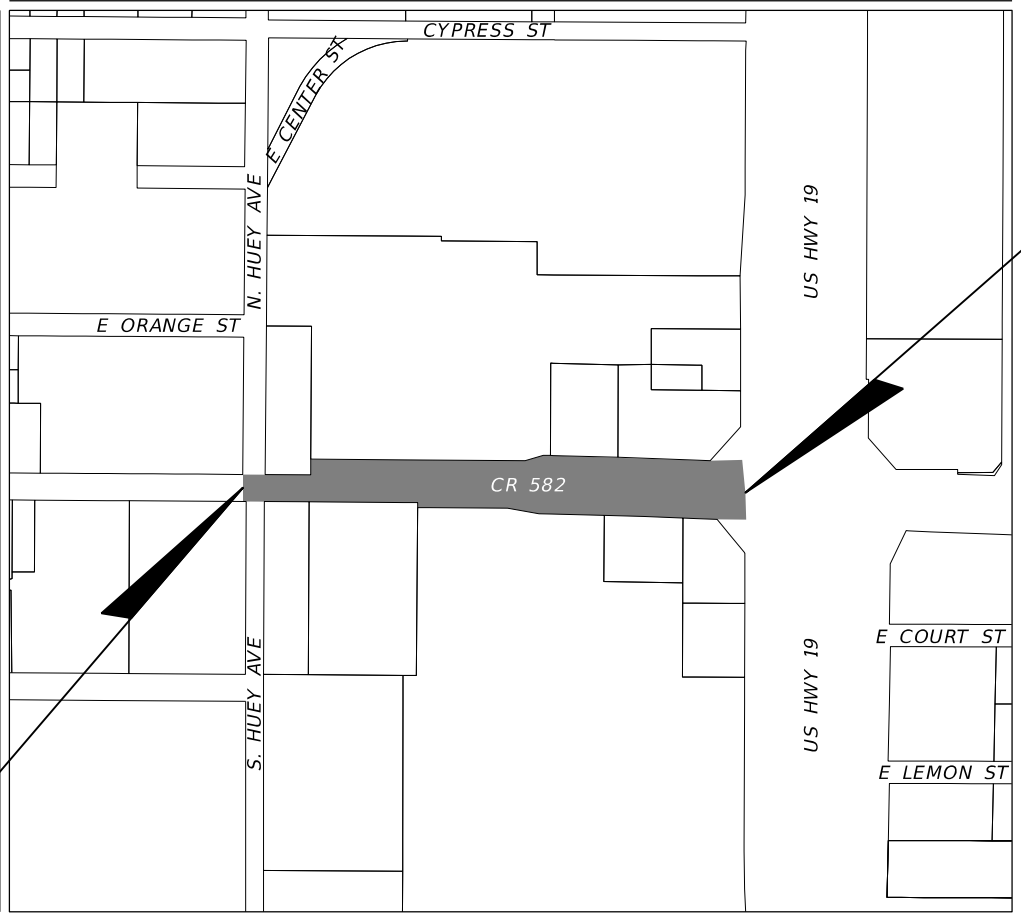
**American**  
Consulting Engineers of Florida, LLC  
2818 Cypress Ridge Blvd, Suite 200  
Wesley Chapel, Florida 33544  
Phone: (813) 435-2600 Fax: (813) 435-2601  
Certificate of Authorization No. 9302

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

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SIGNATURE SHEET
3	SUMMARY OF PAY ITEMS
4 - 5	TYPICAL SECTION
6	GENERAL NOTES
7 - 11	ROADWAY PLAN
12 - 14	GRADING PLAN
15	ROADWAY CONSTRUCTION DETAILS
16	TRAFFIC CONTROL PLAN
17 - 22	UTILITY ADJUSTMENT SHEET
23 - 28	SIGNING AND PAVEMENT MARKING PLAN
29 - 30	SIGNALIZATION GENERAL NOTES
31 - 33	SIGNALIZATION PLAN
34	GUIDESIGN WORKSHEET
35	STRAIN POLE TABULATION SHEET
36	STRAIN POLE SCEDULE
37	BORING LOCATION PLAN & SOIL PROFILE SHEET
38	REPORT OF CORE BORINGS
39	REFERENCE POINTS

BEGIN PROJECT  
STA. 102+72.51  
MP 0.000  
CONST. TARPON AVENUE



GOVERNING STANDARD PLANS:

Manual of Uniform Minimum Standards for Design,  
Construction, and Maintenance for Streets and Highways (2016),  
and applicable Interim Revisions (IRs).  
  
Standards for Design, Construction, and Maintenance for Streets  
and Highways and associated IRs are available at the  
following website: <https://www.fdot.gov/roadway/floridagreenbook/fgb.shtm>  
  
Florida Department of Transportation, FY2021-22 Standard Plans for Road  
and Bridge Construction and applicable Interim Revisions (IRs).

GOVERNING STANDARD SPECIFICATIONS:

City of Tarpon Springs, Current Edition Standard Technical Specifications  
FDOT LAP Division I Specifications, January, 2022

PROJECT NO.	FISCAL YEAR	SHEET NO.
5169367	22	1 of 39

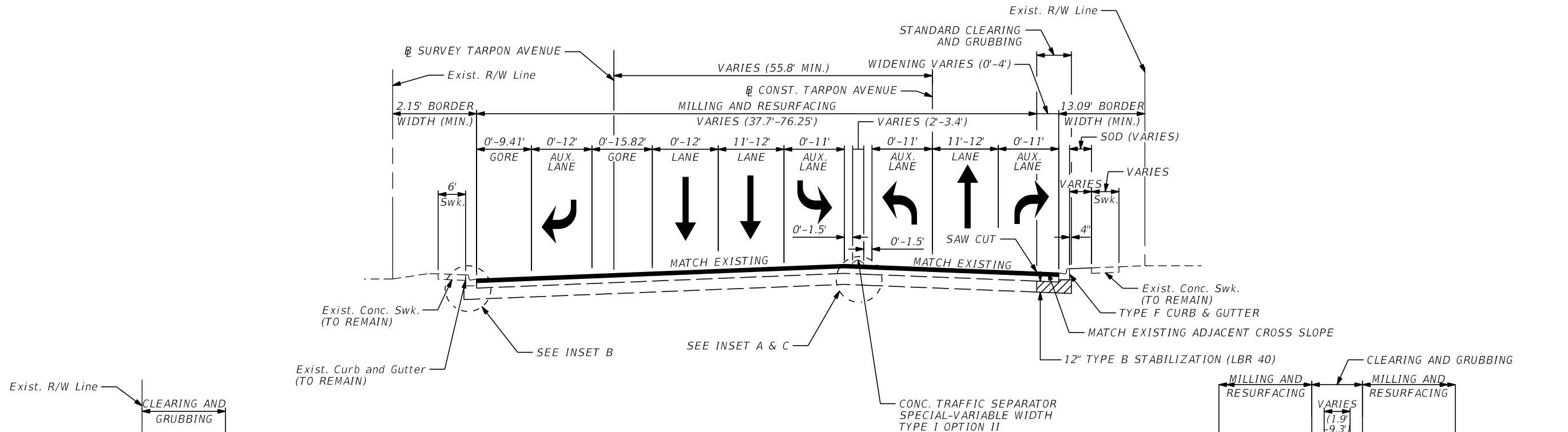


SUMMARY OF PAY ITEMS			
FPID: 443580-1-58-01			
BID ITEM NO.	DESCRIPTION	UNITS	QUANTITY
ROADWAY ITEMS			
101-1	MOBILIZATION	LS	1
102-1	MAINTENANCE OF TRAFFIC	LS	1
102-71-13	TEMPORARY BARRIER, F&I, LOW PROFILE, CONCRETE	LF	120
104-10-3	SEDIMENT BARRIER	LF	-
104-18	INLET PROTECTION SYSTEM	EA	10
110-1-1	CLEARING & GRUBBING	LS/AC	0.232
110-4-10	REMOVAL OF EXISTING CONCRETE	SY	763
120-1	REGULAR EXCAVATION	CY	167.2
120-6	EMBANKMENT	CY	4.5
160-4	TYPE B STABILIZATION	SY	427
285-708	OPTIONAL BASE, BASE GROUP 08	SY	344
327-70-6	MILLING EXISTING ASPHALT PAVEMENT, 1.5" AVG DEPTH	SY	10957
334-1-13	SUPERPAVE ASPH CONC, TRAFFIC C	TN	82.1
337-7-83	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC C, FC-12.5, PG 76-22	TN	925.0
520-1-7	CONCRETE CURB & GUTTER, TYPE E	LF	901
520-1-10	CONCRETE CURB & GUTTER, TYPE F	LF	606
520-2-4	CONCRETE CURB, TYPE D	LF	196
520-5-11	TRAFFIC SEPARATOR CONCRETE-TYPE I, 4' WIDE	LF	218
520-70	CONCRETE TRAFFIC SEPARATOR, SPECIAL-VARIABLE WIDTH	SY	56
522-1	SIDEWALK CONCRETE, 4" THICK	SY	584
522-2	SIDEWALK CONCRETE, 6" THICK	SY	248
522-4	BUS SHELTER PAD-CONCRETE	SY	12
527-2	DETECTABLE WARNINGS	SF	139
570-1-2	PERFORMANCE TURF, SOD	SY	345

SUMMARY OF PAY ITEMS			
FPID: 443580-1-58-01			
BID ITEM NO.	DESCRIPTION	UNITS	QUANTITY
SIGNING & PAVEMENT MARKINGS ITEMS			
700-1-11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	12
700-1-12	SINGLE POST SIGN, F&I GROUND MOUNT, 12-20 SF	AS	3
700-1-13	SINGLE POST SIGN, F&I GROUND MOUNT, 21-30 SF	AS	2
700-1-60	SINGLE POST SIGN, REMOVE	AS	19
710-11-290	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, ISLAND NOSE	SF	22
710-90	PAINTED PAVEMENT MARKINGS-FINAL SURFACE	LS	1
711-11-123	THERMOPLASTIC PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	LF	1119
711-11-124	THERMOPLASTIC PAVEMENT MARKINGS, STANDARD, WHITE, DIAGONALS AND CHEVRONS, 18"	LF	403
711-11-125	THERMOPLASTIC PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE AND CROSSWALK, 24"	LF	230
711-11-141	THERMOPLASTIC PAVEMENT MARKINGS, STANDARD, WHITE, 2-4 DOTTED/GUIDELINE/6-10 GAP EXTENSION, 6"	GM	0.067
711-11-160	THERMOPLASTIC PAVEMENT MARKINGS, STANDARD, WHITE, MESSAGE OR SYMBOL	EA	3
711-11-170	THERMOPLASTIC PAVEMENT MARKINGS, STANDARD, WHITE, ARROW	EA	30
711-11-224	THERMOPLASTIC, YELLOW, SOLID FOR DIAGONAL AND CHEVRONS, 18"	LF	131
711-11-241	THERMOPLASTIC PAVEMENT MARKINGS, STANDARD, YELLOW, 2-4 DOTTED/GUIDELINE/6-10 GAP EXT, 6"	GM	0.012
711-14-125	THERMOPLASTIC PAVEMENT MARKINGS, PREFORMED, WHITE, SOLID, 24"	LF	844
711-16-101	THERMOPLASTIC PAVEMENT MARKINGS, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	GM	0.838
711-16-102	THERMOPLASTIC PAVEMENT MARKINGS, STANDARD-OTHER SURFACES, WHITE, SOLID, 8"	GM	0.131
711-16-131	THERMOPLASTIC PAVEMENT MARKINGS, STANDARD, OTHER SURFACES, WHITE, 10-30 SKIP OR 3-9 LANE DROP. 6"	GM	0.181
711-16-201	THERMOPLASTIC PAVEMENT MARKINGS, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	GM	0.444

SUMMARY OF PAY ITEMS			
FPID: 443580-1-58-01			
BID ITEM NO.	DESCRIPTION	UNITS	QUANTITY
SIGNALIZATION			
630-2-11	CONDUIT, F&I, OPEN TRENCH	LF	169
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	318
632-7-1	SIGNAL CABLE- NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	PI	1
632-7-6	SIGNAL CABLE, REMOVE- INTERSECTION	PI	1
634-4151	SPAN WIRE ASSEMBLY, F&I, TWO POINT, PERPENDICULAR	PI	2
634-4600	SPAN WIRE ASSEMBLY, REMOVE- POLES REMAIN	PI	1
635-2-11	PULL AND SPLICE BOXES, F&I, 13" X 24"	EA	15
641-2-18	PRESTRESSED CONCRETE POLE, F&I, TYPE P-VIII	EA	2
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	EA	4
646-1-60	ALUMINUM SIGNALS POLE, REMOVE	EA	4
650-1-14	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY	AS	4
650-1-19	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 5 SECTION CLUSTER, 1 WAY	AS	4
650-1-60	VEHICULAR TRAFFIC SIGNAL, REMOVE- POLES TO REMAIN	AS	8
653-1-12	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 2 WAYS	AS	4
660-1106	LOOP DETECTOR INDUCTIVE , F&I, TYPE 6, 2 CH,SS,S,TD	EA	5
660-2101	LOOP ASSEMBLY- F&I, TYPE A	AS	15
630-1111	SIGNAL PRIORITY AND PREEMPTION SYSTEM, F&I, OPTICAL, CABINET ELECTRONICS	EA	1
630-1112	SIGNAL PRIORITY AND PREEMPTION SYSTEM, F&I, OPTICAL, DETECTOR	EA	2
665-1-11	PEDESTRIAN DETECTOR, FURNISH & INSTALL, STANDARD	EA	8
670-5400	TRAFFIC CONTROLLER ASSEMBLY, MODIFY	AS	1
700-5-22	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, 12-18 SF	EA	4
705-11-4	DELINEATOR, FLEXIBLE HIGH PERFORMANCE 48"	EA	7

				BY	DATE	CITY OF TARPON SPRINGS	SUMMARY OF PAY ITEMS	<div><div><div><div><div><div></div></div></div><div>American</div></div><div>Consulting Engineers of Florida, LLC</div><div>2818 Cypress Ridge Blvd, Suite 200 Wesley Chapel, Florida 33544 Phone: (813) 435-2600 Fax: (813) 435-2601 Certificate of Authorization No. 9302 Erik C. Leschak, P.E. No. 63874</div></div></div>	DATE: 5/14/2021
			DESIGNED	RWS	12/13/20				SCALE: 1" = 20'
			DRAWN	RWS	2/13/21				SHEET: 3 of 39
REVISIONS	BY	DATE	CHECKED	ASP	2/25/21				



TYPICAL SECTION 1  
STA. 102+72.51 TO STA. 109+74.17 (Ø SURVEY TARPON AVENUE)

**MILLING**

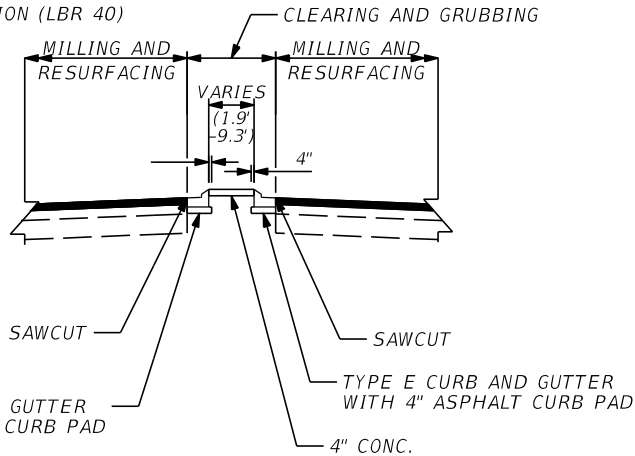
MILL EXISTING ASPHALT  
PAVEMENT FOR DEPTH (1 1/2")

**RESURFACING**

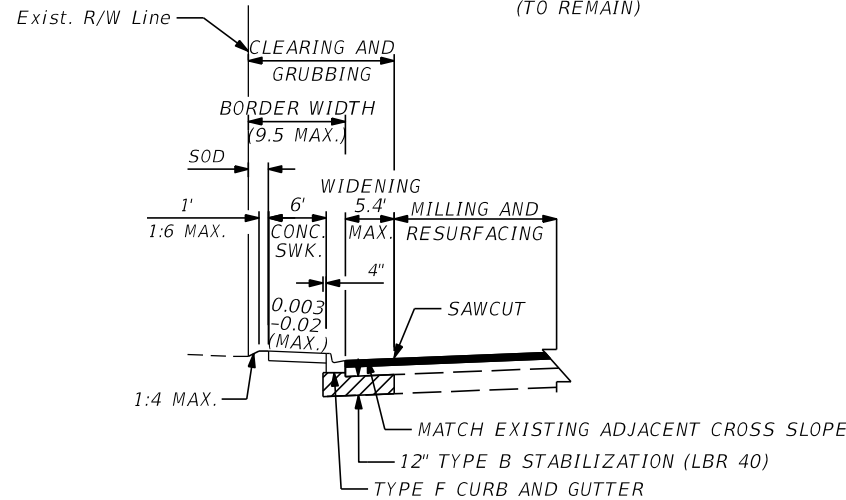
FRICTION COURSE FC-12.5 (TRAFFIC C) (1 1/2") (PG 76-22)

**WIDENING**

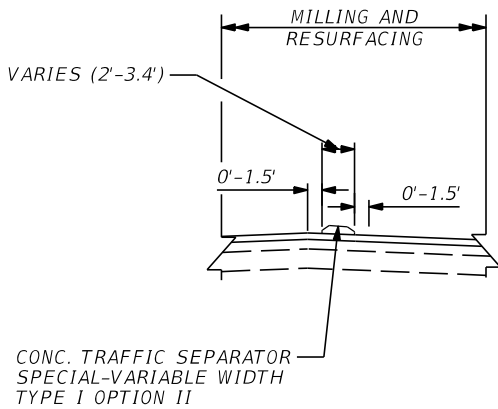
OPTIONAL BASE GROUP 8 WITH  
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1 1/2")  
AND FRICTION COURSE FC-12.5 (TRAFFIC C) (1 1/2") (PG 76-22)



INSET A CURB MEDIAN DETAIL  
STA. 106+28.83 TO STA. 108+75.11 (Ø CONST. TARPON AVENUE)



INSET B CURB AND SIDEWALK DETAIL  
STA. 103+18.34 TO STA. 104+30.36 (Ø CONST. TARPON AVENUE)  
STA. 104+64.39 TO STA. 104+89.71 (Ø CONST. TARPON AVENUE)

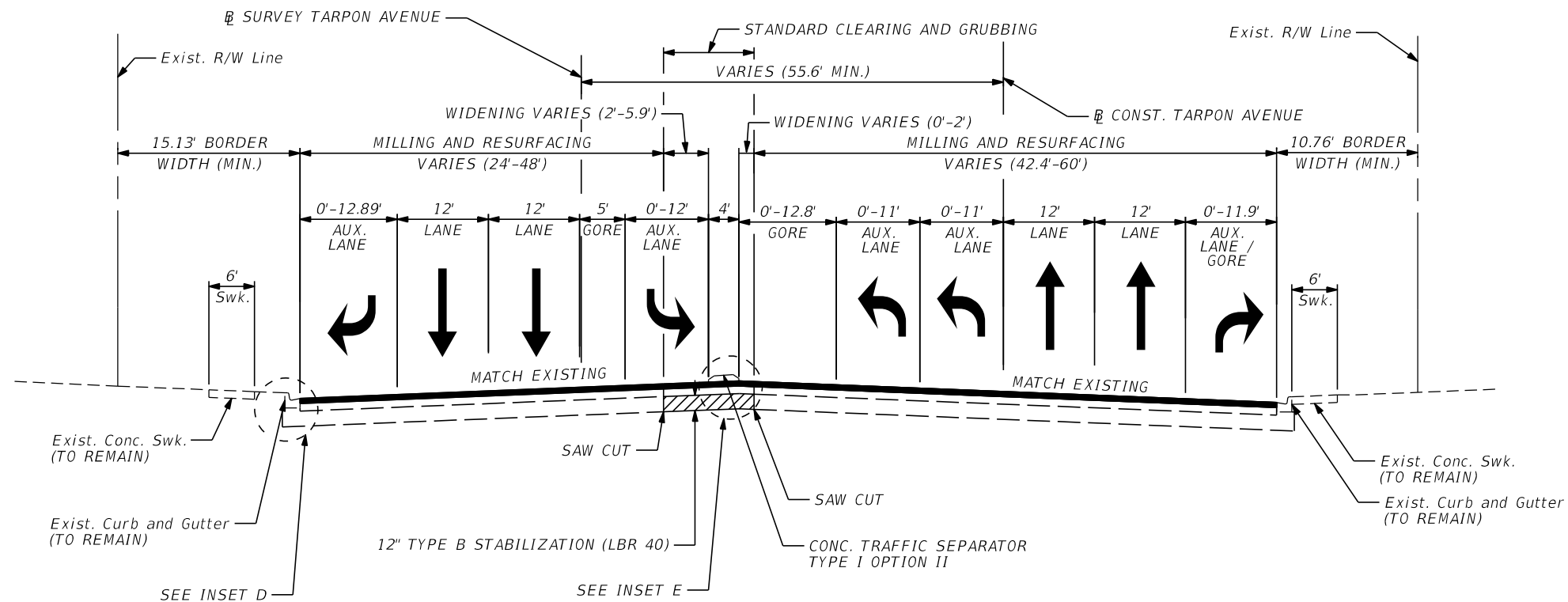


INSET C TRAFFIC SEPARATOR DETAIL  
STA. 103+89.89 TO STA. 106+28.83 (Ø CONST. TARPON AVENUE)

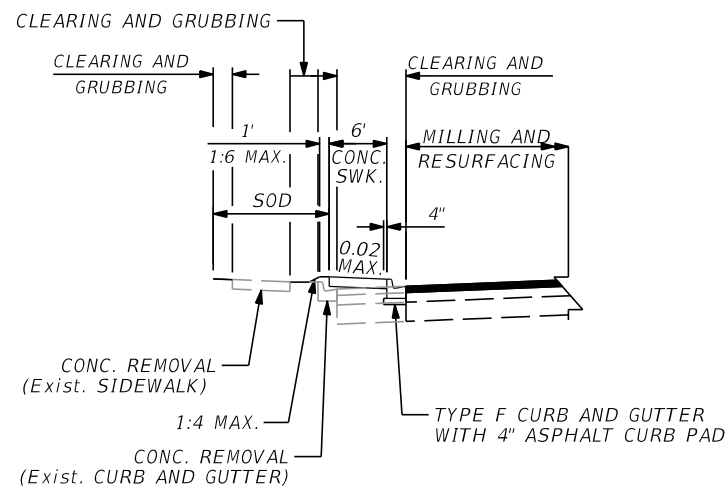
				BY	DATE	CITY OF TARPON SPRINGS	TYPICAL SECTION (1)	<p>2818 Cypress Ridge Blvd, Suite 200 Wesley Chapel, Florida 33544 Phone: (813) 435-2600 Fax: (813) 435-2601 Certificate of Authorization No. 9302 Erik C. Leschak, P.E. No. 63874</p>	DATE: 5/14/2021
			DESIGNED	RWS	12/13/20				SCALE: 1" = 20'
			DRAWN	RWS	2/13/21				SHEET: 4 of 39
REVISIONS	BY	DATE	CHECKED	ASP	2/25/21				

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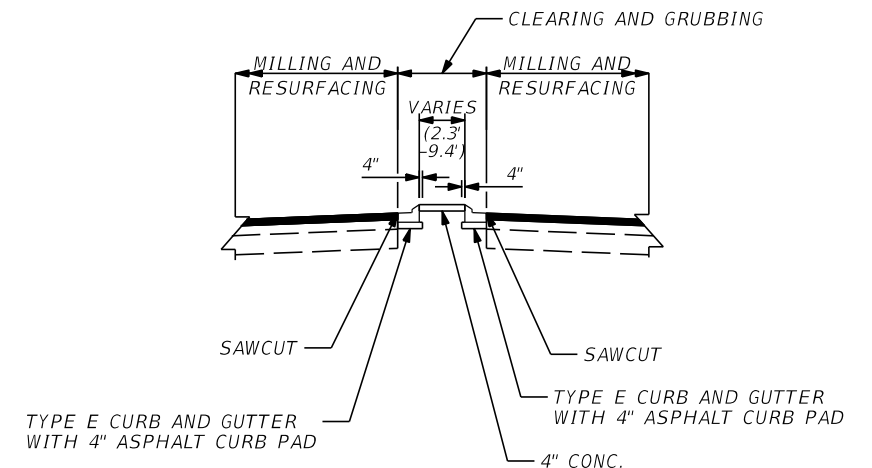
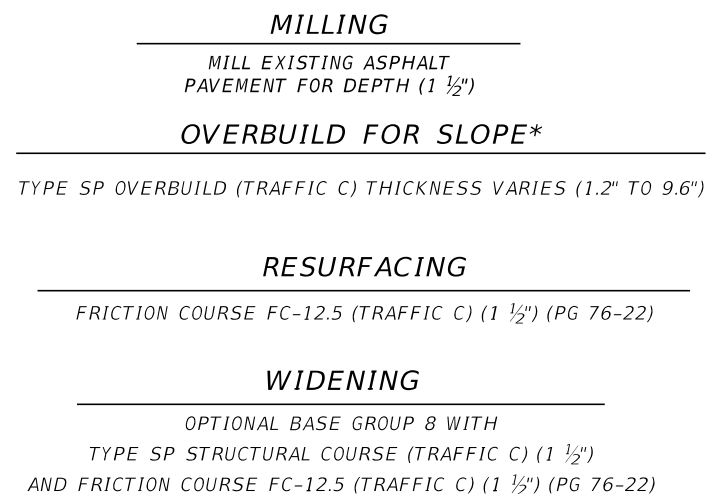




TYPICAL SECTION 2  
STA. 109+74.17 TO STA. 115+24.18 (Survey Tarpon Avenue)



INSET D CURB AND SIDEWALK DETAIL  
STA. 112+38.06 TO STA. 114+57.47 (Const. Tarpon Avenue)



INSET E CURB MEDIAN DETAIL  
STA. 112+76.20 TO STA. 114+75.34 (Const. Tarpon Avenue)

\* SEE SHEET 13 FOR STATION RANGE

				BY	DATE	CITY OF TARPON SPRINGS	TYPICAL SECTION (2)	 2818 Cypress Ridge Blvd, Suite 200 Wesley Chapel, Florida 33544 Phone: (813) 435-2600 Fax: (813) 435-2601 Certificate of Authorization No. 9302 Erik C. Leschak, P.E. No. 63874	DATE: 5/14/2021
			DESIGNED	RWS	12/13/20				SCALE: 1" = 20'
			DRAWN	RWS	2/13/21				SHEET: 5 of 39
REVISIONS	BY	DATE	CHECKED	ASP	2/25/21				

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

GENERAL NOTES:

1. ALL ELEVATIONS AND DIMENSIONS ARE IN FEET REFERENCED TO NAVD 88 (NORTH AMERICAN VERTICAL DATUM OF 1988). FDOT RIGHT OF WAY LINES WERE REFERENCED FROM FDOT SEC. 15150-2548.

2. ALL SURVEY INFORMATION WAS OBTAINED FROM A LICENSED FLORIDA PROFESSIONAL SURVEYOR AND MAPPER AND UTILIZED AS SUPPORTING DATA IN THE PRODUCTION OF DESIGN PLANS AND FOR CONSTRUCTION ON SUBJECT PROJECT. THE PROFESSIONAL SURVEYOR AND MAPPER OF RECORD IS:  
  
NICHOLAS M. CIRCELLO, P.S.M.  
P.S.M. NO: LS4898  
GEORGE F. YOUNG, INC.  
299 DR. MARTIN LUTHER KING JR. STREET  
ST. PETERSBURG, FL 33701

2. ALL DIMENSIONS, ELEVATIONS AND RADII ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

3. GRADES SHOWN ARE FINISHED GRADES.

4. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL PLAN DIMENSIONS AND SITE CONDITIONS, AND IS TO NOTIFY THE CITY OF TARPON SPRINGS AND/OR THE ENGINEER OF ANY DISCREPANCIES BETWEEN THE SITE CONDITIONS AND INFORMATION SHOWN ON THE PLANS PRIOR TO COMMENCING WORK.

5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL CERTIFICATIONS, SHOP DRAWINGS, MATERIALS, ETC. CALLED FOR OR REQUESTED ON ALL CONSTRUCTION MATERIALS BROUGHT TO THE SITE.

6. THE ENGINEER WILL HAVE THE AUTHORITY TO DISAPPROVE OR REJECT WORK WHICH IS DEFECTIVE, OR DOES NOT CONFORM TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS, OR DOES NOT MEET THE REQUIREMENTS OF ANY INSPECTION, TEST, OR APPROVAL.

7. NEITHER OBSERVATIONS BY THE ENGINEER NOR INSPECTIONS, TEST, OR APPROVALS BY OTHER PERSONS SHALL RELIEVE THE CONTRACTOR FROM THEIR OBLIGATION TO PERFORM THE WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS.

8. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHOULD NOTIFY THE ENGINEER WITHOUT DELAY. ALL CORNERS OR REFERENCE POINTS (I.E. CENTERLINE STREET INTERSECTION CONTROL) SHALL BE RESET AND CERTIFIED CORRECT BY A REGISTERED LAND SURVEYOR AND A DRAWING SEALED AND CERTIFIED SHALL BE FURNISHED TO THE OFFICE OF THE COUNTY SURVEYOR PRIOR TO FINAL PAYMENT ON THE PROJECT, AT THE CONTRACTOR'S EXPENSE.

9. IT IS NOT THE INTENT OF THESE PLANS TO SHOW ALL TEMPORARY EROSION CONTROL, TEMPORARY DRAINAGE AND INCIDENTAL CONSTRUCTION NECESSARY TO PREVENT EROSION. THE CONTRACTOR IS TO PROVIDE EROSION CONTROL / SEDIMENT BARRIERS (INLET PROTECTION, SYNTHETIC BALES OR SILTATION FENCE) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS AND WATERWAYS. IN ADDITION, THE CONTRACTOR SHALL PLACE STRAW, MULCH, OR OTHER SUITABLE MATERIAL ON THE GROUND IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER AND EXIT SITE. IF IN THE OPINION OF THE ENGINEER AND/OR LOCAL AUTHORITIES, EXCESSIVE QUANTITIES OF EARTH ARE TRANSPORTED OFF-SITE AND INTO EXISTING STORM DRAINAGE FACILITIES EITHER BY NATURAL DRAINAGE OR BY VEHICULAR TRAFFIC, THE CONTRACTOR IS TO PROVIDE EROSION CONTROL AND RESTORE THE AREA TO THE SATISFACTION OF THE ENGINEER AND/OR LOCAL AUTHORITIES.
10. IN ADDITION TO THE SOD LIMITS IDENTIFIED IN THE TYPICAL SECTION, ANY AND ALL GRASS AREAS DISTURBED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE SODDED AND RESTORED TO THE ORIGINAL STATE OR BETTER. SOD SHALL MATCH THE EXISTING SOD TYPE BEING REPLACED OR REPAIRED.

11. ALL MATERIALS, DEBRIS, UNSUITABLE EARTH OR EXCESS FILL, ETC. OF NO SALVAGE VALUE SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY THE CONTRACTOR.

12. NO BURNING WITHIN THE PROJECT RIGHT-OF-WAY SHALL BE PERMITTED.

13. ALL EXISTING SIGNS ARE TO REMAIN, UNLESS OTHERWISE NOTED IN PLANS. THE CONTRACTOR SHALL REPLACE AND RESTORE ALL SIGNS THAT ARE REMOVED OR DISTURBED DURING CONSTRUCTION. COST FOR THIS WORK SHALL BE INCLUDED IN CLEARING AND GRUBBING. IF ANY EXISTING SIGNS ARE LOST OR DAMAGED THEN THE CONTRACTOR SHALL PROVIDE THE CITY WITH A REPLACEMENT SIGN AT NO ADDITIONAL COST TO THE CITY. SIGNS LABELED TO BE REPLACED SHALL BE REPLACED WITH NEW SIGNS. COST FOR THIS WORK SHALL BE PAID FOR UNDER SIGNING PAY ITEM.

14. A VACUUM TYPE SWEEPER SHALL BE USED FOR STREET CLEAN UP FOLLOWING POST CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL CLEAN TARPON AVENUE AND THE CONNECTION OF TARPON AVENUE TO HUEY AVENUE AND THE WALMART/PUBLIX ENTRANCES TO REMOVE DIRT RESULTING FROM CONSTRUCTION ACTIVITIES. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE COST FOR OTHER ITEMS.

15. PAVEMENT MARKINGS SHALL MEET REQUIREMENTS OF FDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION INDEX 711-001 AND FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITIONS, AND AS AMENDED BY THE PLANS. FOLLOW STANDARD SPECIFICATIONS SECTION 710-4.1.1 AND DO NOT APPLY FINAL SURFACE PAINT FOR 24 INCH LONGITUDINAL BARS IN SPECIAL EMPHASIS CROSSWALKS, WHERE PREFORMED THERMOPLASTIC WILL BE APPLIED.

16. CONTROL FOR THIS SURVEY WAS ESTABLISHED USING REAL TIME KINEMATIC-GLOBAL POSITIONING SYSTEM (RTK GPS) OBSERVATIONS WITH CORRECTION SIGNALS PROVIDED BY TRIMBLE VRS NOW, WITH THE SUBSEQUENT CHECKS TO PUBLISHED HORIZONTAL CONTROL.

17. 8" CONC. SLAB WILL HAVE TWO LAYERS OF 6"X6" WELDED STEEL WIRE FABRIC (WWF).

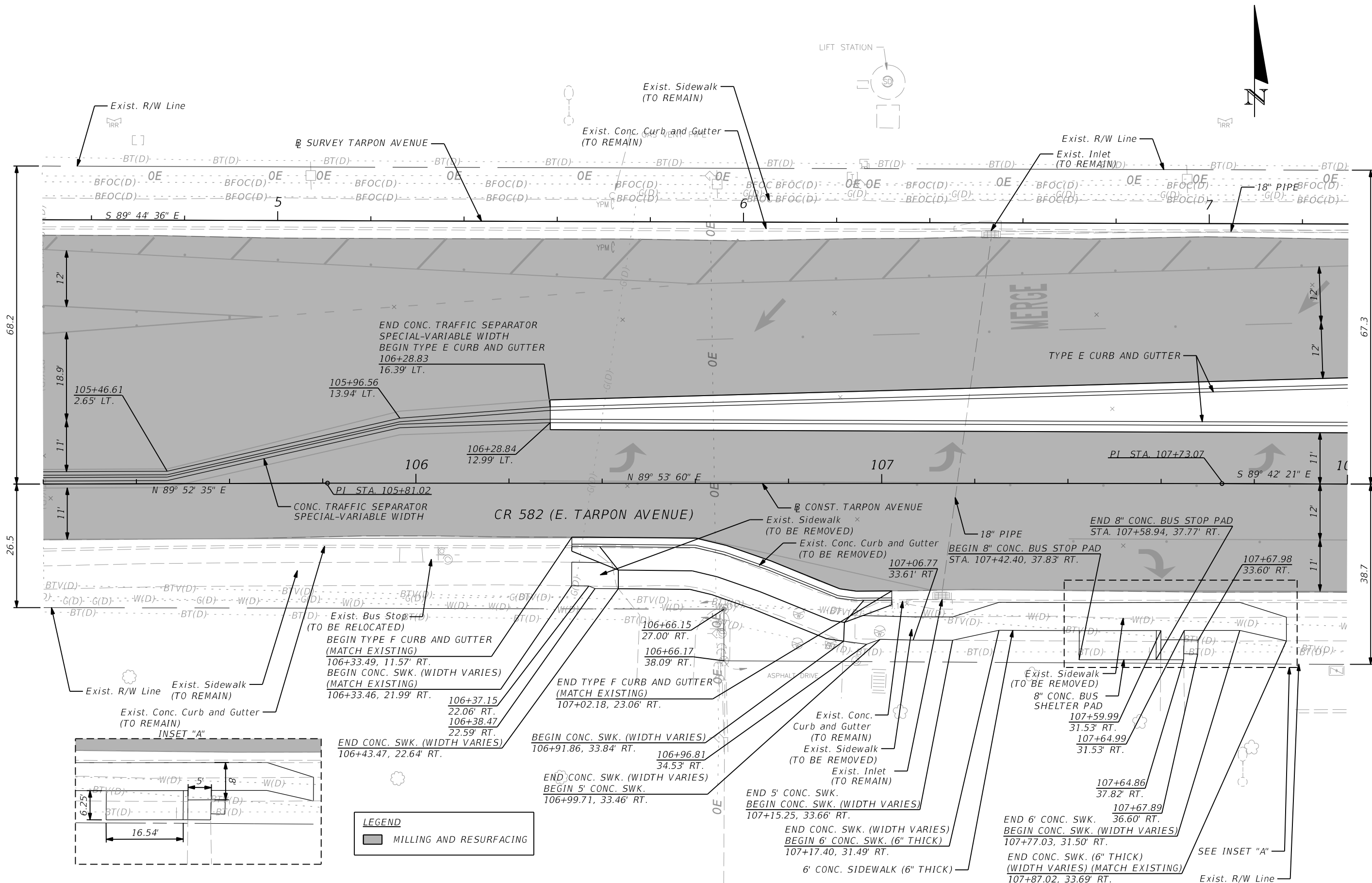
18. WWF MUST BE PLACED A MINIMUM OF 2 INCHES BELOW THE SLAB SURFACE ,BUT NOT BELOW 4 INCHES. WWF MUST BE PLACED BELOW DEPTH OF SAWCUTS.

19. CHAIRS, PRECAST CONCRETE CUBES, OR OTHER RELIABLE METHODS SHALL BE USED FOR PROPER PLACEMENT. NO "HOOK AND PULL" METHOD.

20. WWF FLAT SHEETS (NOT ROLLED), LAPPED 2 SPACES AT JOINTS, ARE REQUIRED.

				BY	DATE	CITY OF TARPON SPRINGS	GENERAL NOTES	<div><div><div><div><div><div></div><div>American</div></div></div><div>Consulting Engineers of Florida, LLC</div><div>2818 Cypress Ridge Blvd, Suite 200 Wesley Chapel, Florida 33544 Phone: (813) 435-2600 Fax: (813) 435-2601 Certificate of Authorization No. 9302 Erik C. Leschak, P.E. No. 63874</div></div></div></div>	DATE: 5/14/2021
			DESIGNED						SCALE: NTS
			DRAWN						SHEET: 6 of 39
REVISIONS	BY	DATE	CHECKED						





REVISIONS	BY	DATE	CHECKED	ASP	2/25/21

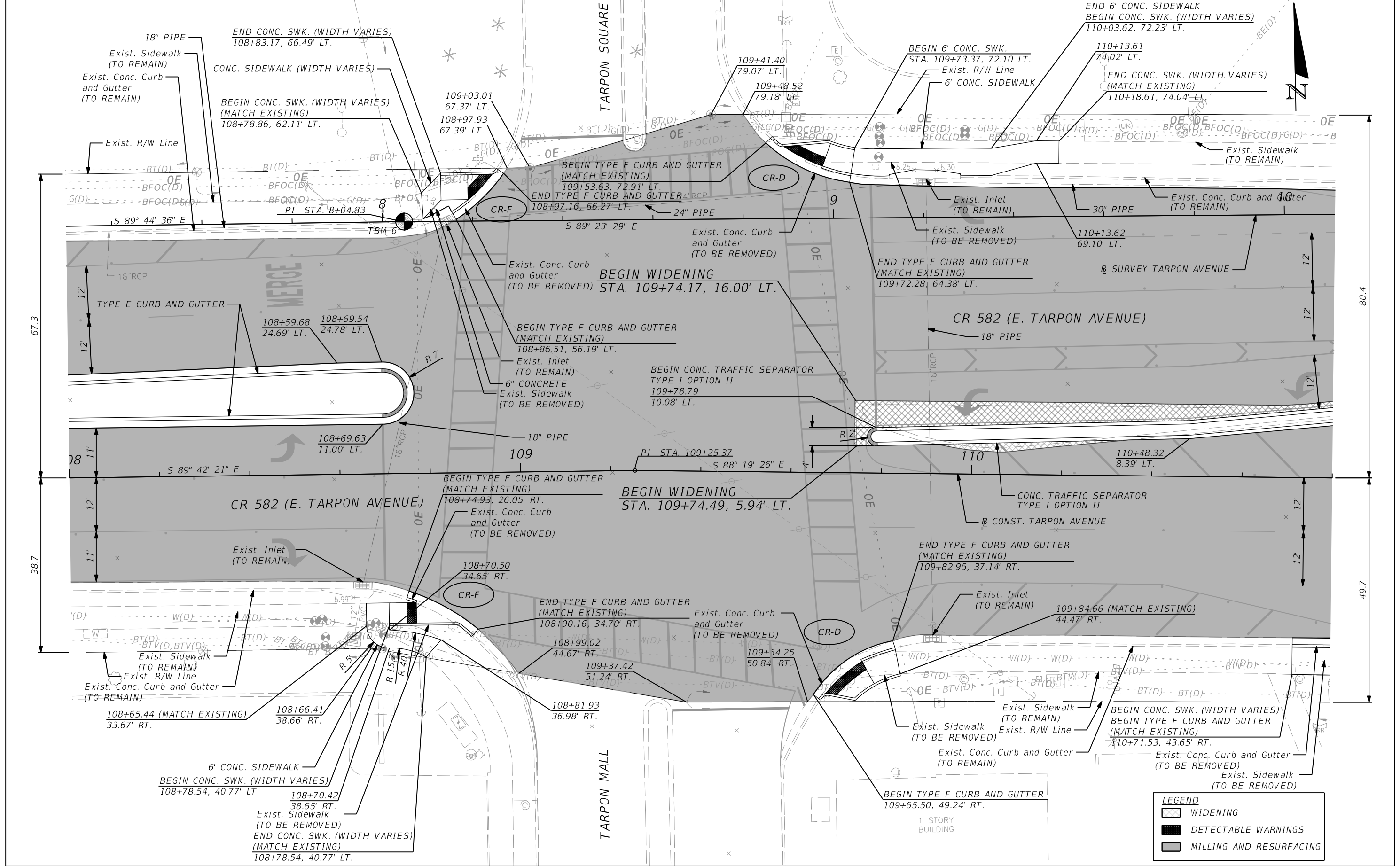
BY	DATE
DESIGNED RWS	12/13/20
DRAWN RWS	2/13/21
CITY OF TARPON SPRINGS	

ROADWAY PLAN (2)
11:03:16 AM

**American**  
Consulting Engineers of Florida, LLC  
2818 Cypress Ridge Blvd, Suite 200  
Wesley Chapel, Florida 33544  
Phone: (813) 435-2600 Fax: (813) 435-2601  
Certificate of Authorization No. 9302  
Erik C. Leschak, P.E. No. 63874

DATE: 5/14/2021
SCALE: 1" = 20'
SHEET: 8 of 39

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



			BY	DATE
		DESIGNED	RWS	12/13/20
		DRAWN	RWS	2/13/21
REVISIONS	BY	DATE	CHECKED	ASP
				2/25/21

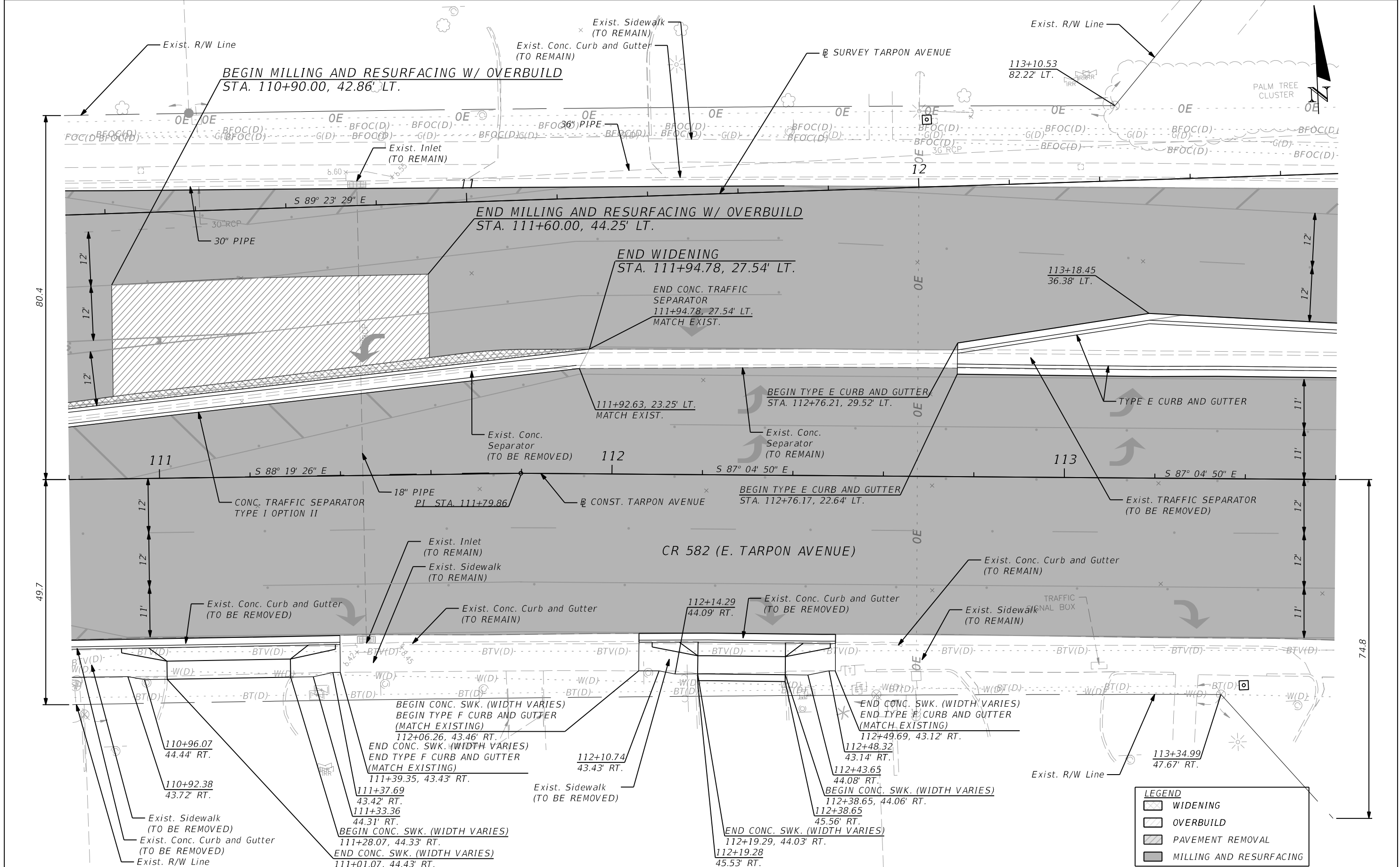
CITY OF TARPON SPRINGS

ROADWAY PLAN (3)

**American**  
Consulting Engineers of Florida, LLC  
2818 Cypress Ridge Blvd, Suite 200  
Wesley Chapel, Florida 33544  
Phone: (813) 435-2600 Fax: (813) 435-2601  
Certificate of Authorization No. 9302  
Erik C. Leschak, P.E. No. 63874

DATE: 5/14/2021  
SCALE: 1" = 20'  
SHEET: 9 of 39

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



REVISIONS	BY	DATE	CHECKED	ASP	2/25/21
				DESIGNED	RWS 12/13/20
				DRAWN	RWS 2/13/21
				BY	DATE

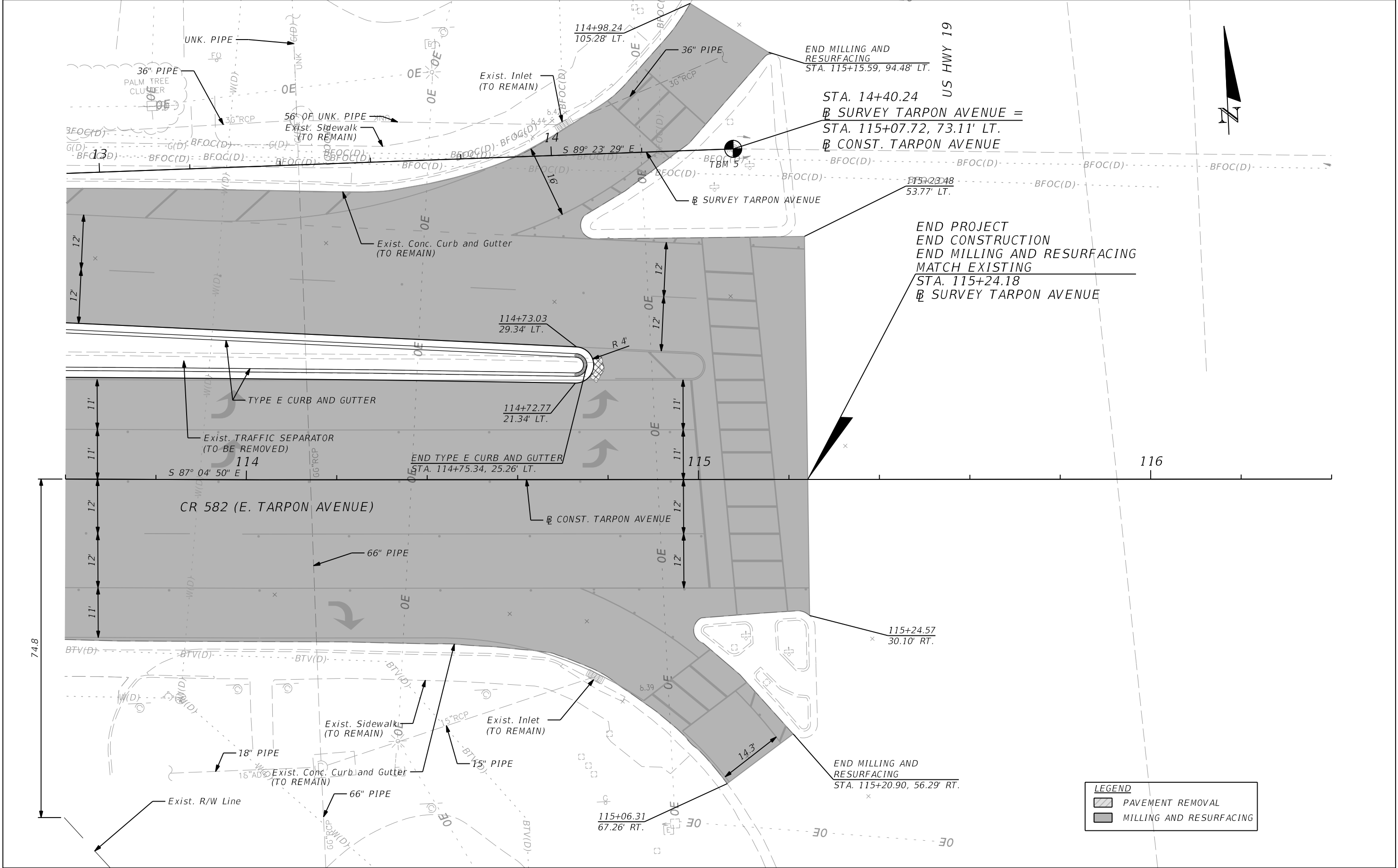
CITY OF TARPON SPRINGS

ROADWAY PLAN (4)

2818 Cypress Ridge Blvd, Suite 200  
Wesley Chapel, Florida 33544  
Phone: (813) 435-2600 Fax: (813) 435-2601  
Certificate of Authorization No. 9302  
Erik C. Leschak, P.E. No. 63874

DATE:	5/14/2021
SCALE:	1" = 20'
SHEET:	10 of 39

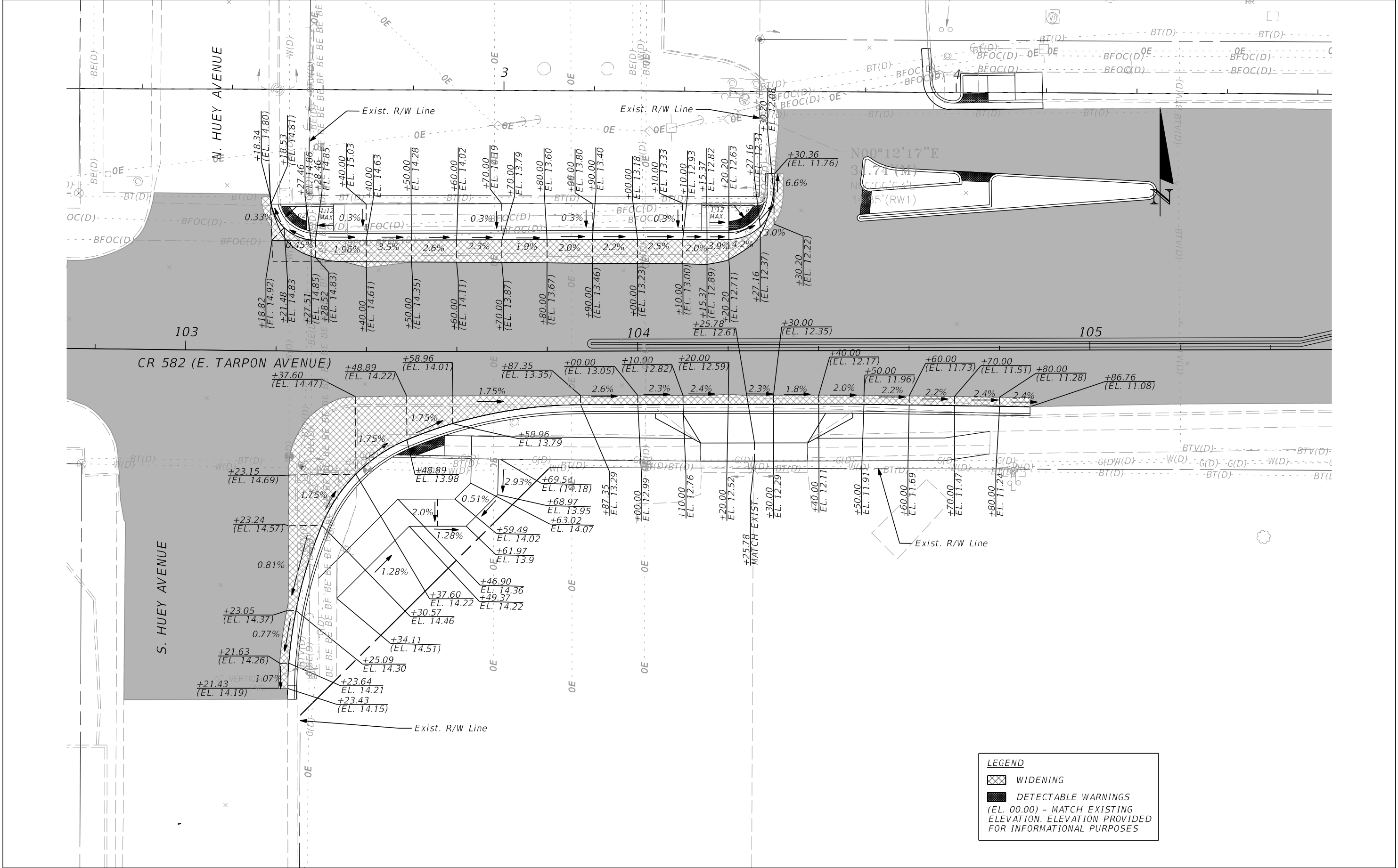
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				BY	DATE	CITY OF TARPON SPRINGS	ROADWAY PLAN (5)	<div><div></div><div>American Consulting Engineers of Florida, LLC 2818 Cypress Ridge Blvd, Suite 200 Wesley Chapel, Florida 33544 Phone: (813) 435-2600 Fax: (813) 435-2601 Certificate of Authorization No. 9302 Erik C. Leschak, P.E. No. 63874</div></div>	DATE: 5/14/2021
			DESIGNED	RWS	12/13/20				SCALE: 1" = 20'
			DRAWN	RWS	2/13/21				SHEET: 11 of 39
REVISIONS	BY	DATE	CHECKED	ASP	2/25/21				

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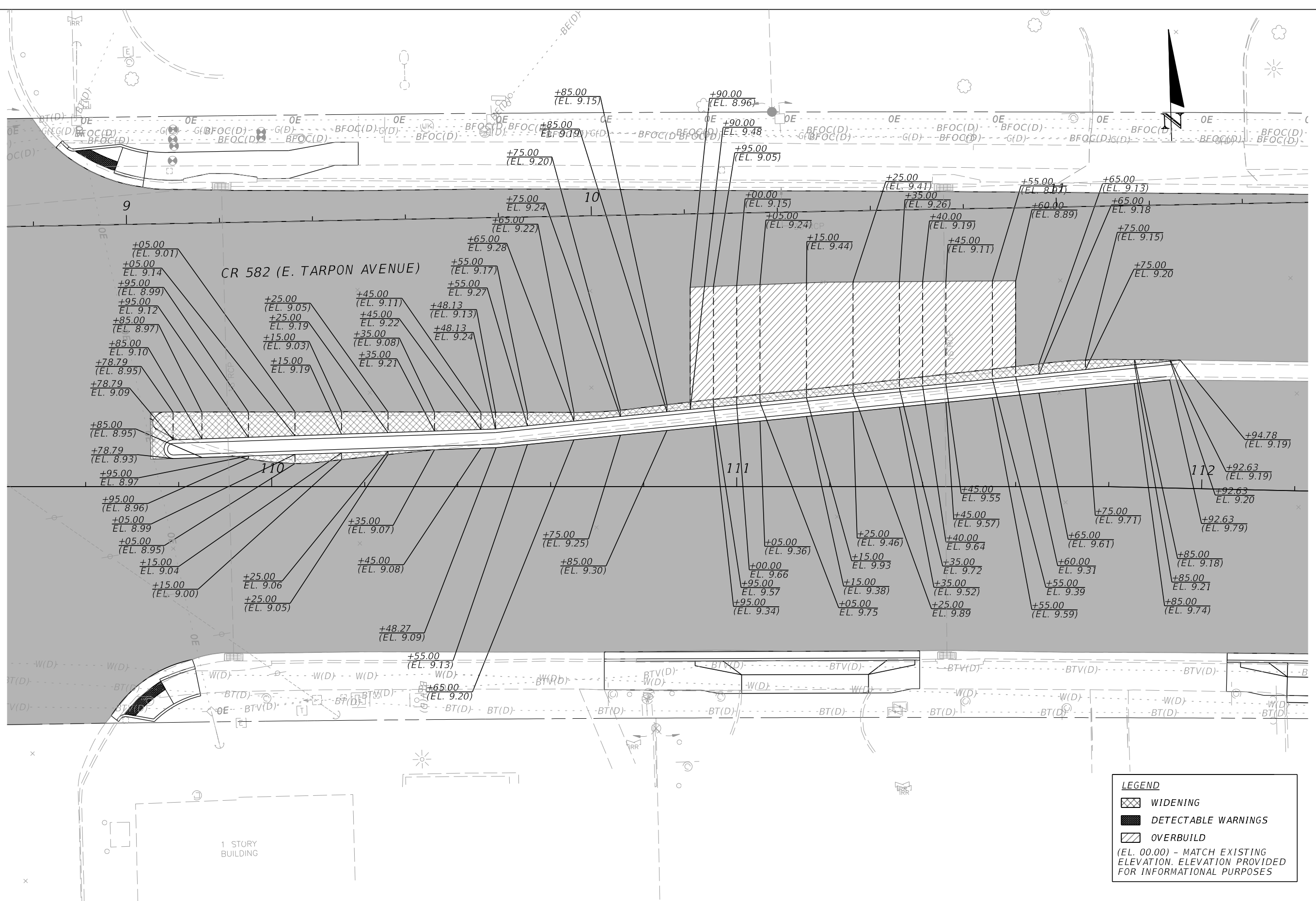




				BY	DATE	CITY OF TARPON SPRINGS	GRADING PLAN (1)	<div><div><div><div><div><div></div><div>American</div></div></div><div><div>Consulting Engineers of Florida, LLC</div><div>2818 Cypress Ridge Blvd, Suite 200</div><div>Wesley Chapel, Florida 33544</div><div>Phone: (813) 435-2600 Fax: (813) 435-2601</div><div>Certificate of Authorization No. 9302</div><div>Erik C. Leschak, P.E. No. 63874</div></div></div></div><div>DATE: 5/14/2021</div></div>
				DESIGNED	RWS			
				DRAWN	RWS			
REVISIONS	BY	DATE	CHECKED	ASP	2/25/21			SCALE: 1" = 20'
								SHEET: 12 of 39

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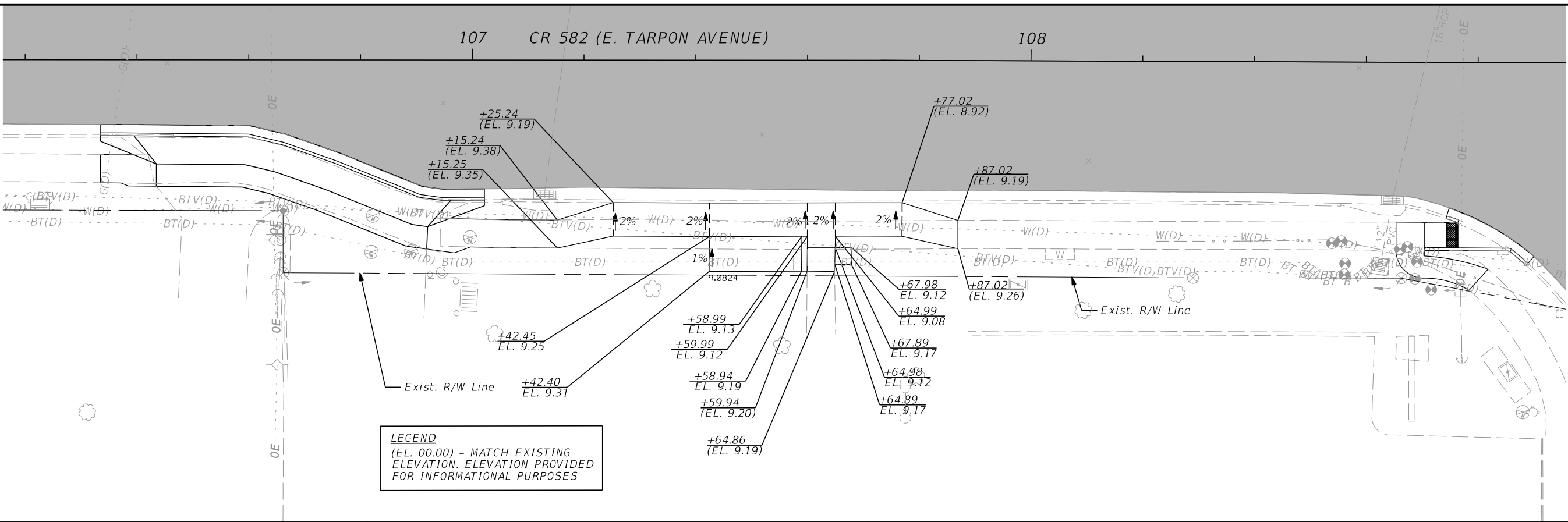
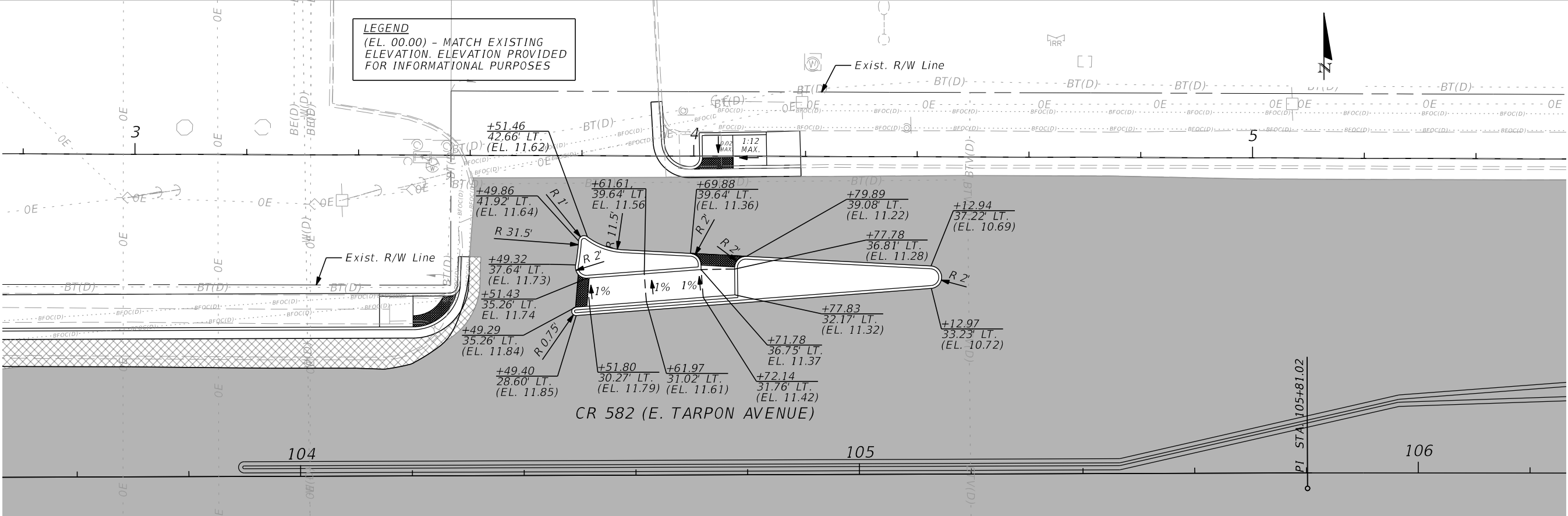
**LEGEND**

- WIDENING
- DETECTABLE WARNINGS
- OVERBUILD

(EL. 00.00) - MATCH EXISTING  
ELEVATION. ELEVATION PROVIDED  
FOR INFORMATIONAL PURPOSES

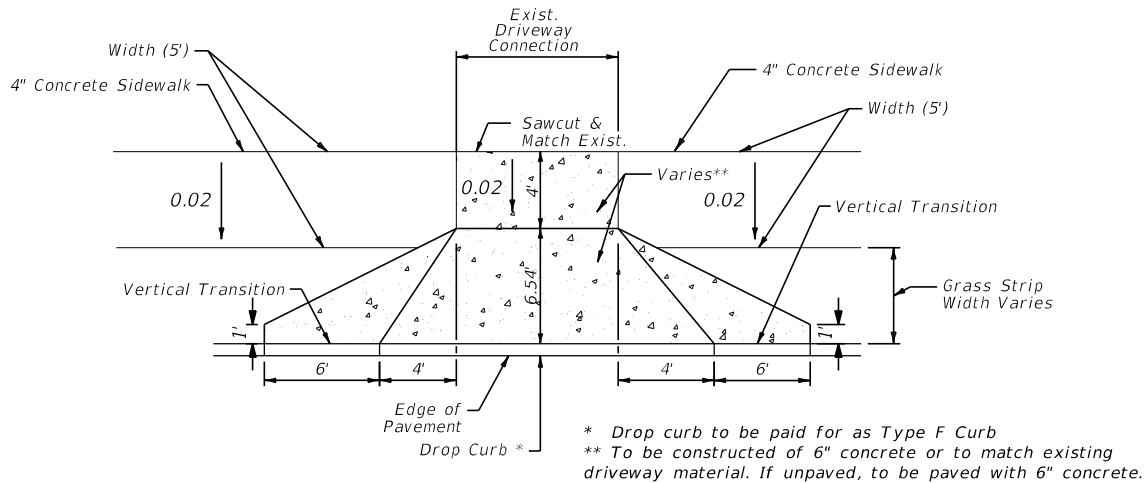
			BY	DATE	CITY OF TARPON SPRINGS	GRADING PLAN (2)	<div><div>American Consulting Engineers of Florida, LLC</div><div>2818 Cypress Ridge Blvd, Suite 200 Wesley Chapel, Florida 33544 Phone: (813) 435-2600 Fax: (813) 435-2601 Certificate of Authorization No. 9302 Erik C. Leschak, P.E. No. 63874</div></div>	DATE: 5/14/2021	
			DESIGNED	RWS				12/13/20	SCALE: 1" = 20'
			DRAWN	RWS				2/13/21	SHEET: 13 of 39
REVISIONS	BY	DATE	CHECKED	ASP				2/25/21	

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			BY	DATE	CITY OF TARPON SPRINGS	GRADING SHEET (3)	<div><div></div><div>American Consulting Engineers of Florida, LLC 2818 Cypress Ridge Blvd, Suite 200 Wesley Chapel, Florida 33544 Phone: (813) 435-2600 Fax: (813) 435-2601 Certificate of Authorization No. 9302 Erik C. Leschak, P.E. No. 63874</div></div>	DATE: 5/14/2021
		DESIGNED	RWS	12/13/20				SCALE: 1" = 20'
		DRAWN	RWS	2/13/21				SHEET: 14 of 39
REVISIONS	BY	DATE	CHECKED	ASP	2/25/21			

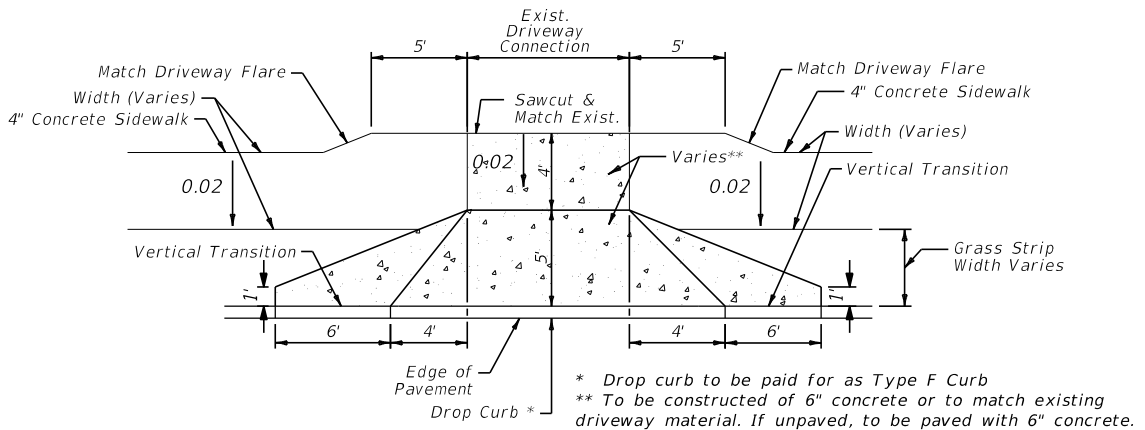
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TURNOUT DETAIL #1

N.T.S.

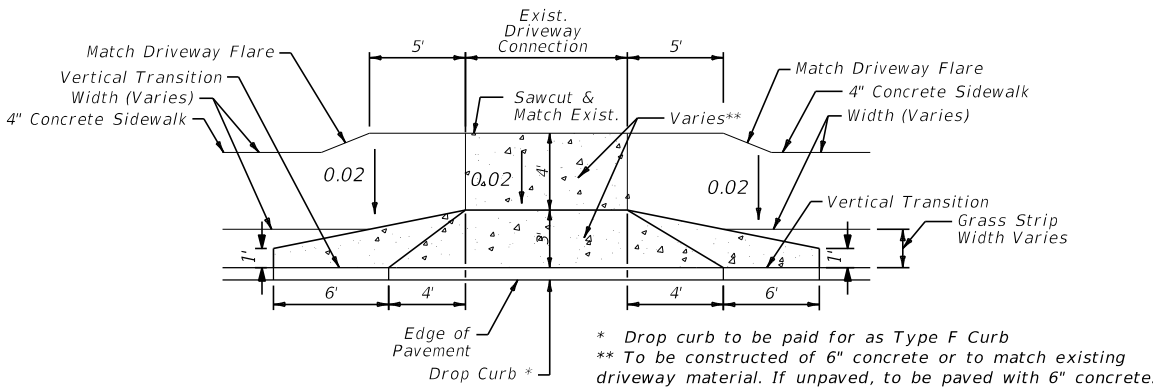
STA. 104+03.88 TO STA. 104+47.53 ( @ CONST. TARPON AVENUE)



TURNOUT DETAIL #2

N.T.S.

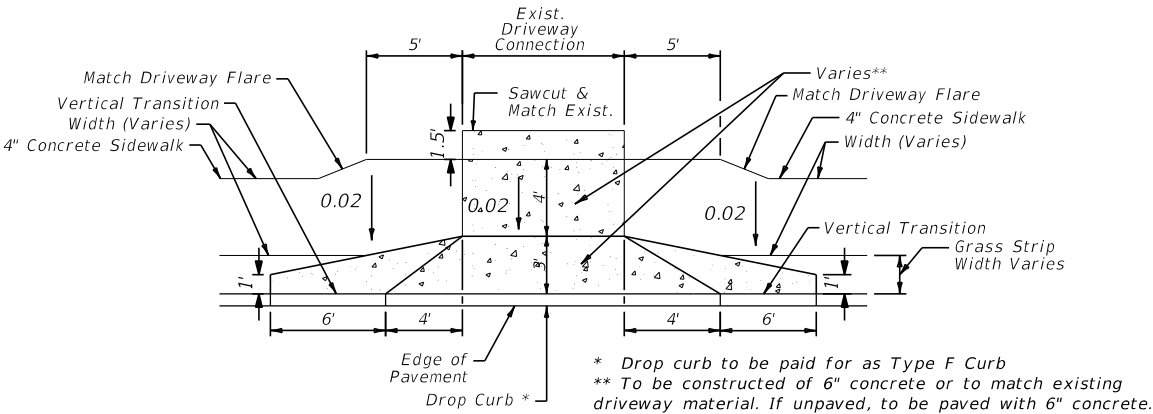
STA. 106+33.49 TO STA. 107+02.18 ( @ CONST. TARPON AVENUE)



TURNOUT DETAIL #3

N.T.S.

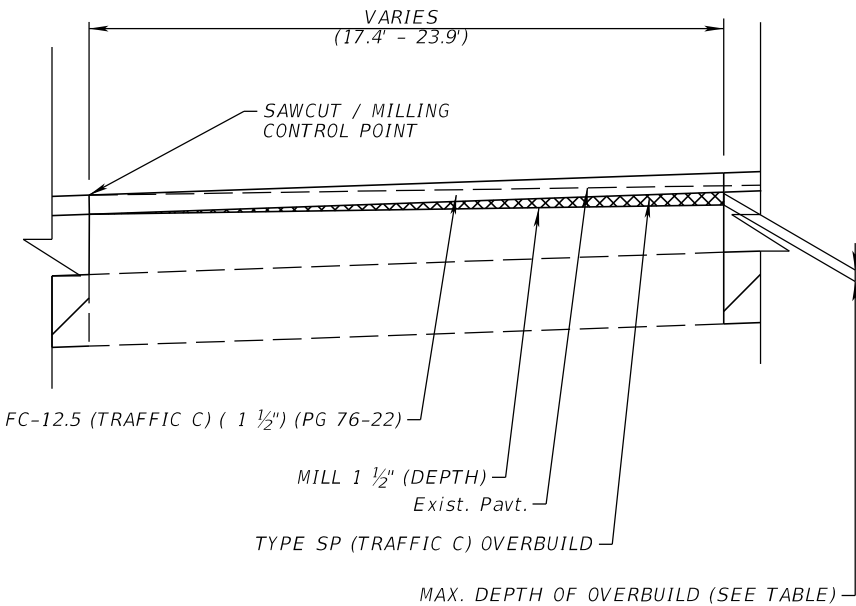
STA. 110+91.07 TO STA. 111+38.07 ( @ CONST. TARPON AVENUE)



TURNOUT DETAIL #4

N.T.S.

STA. 112+09.22 TO STA. 112+48.22 ( @ CONST. TARPON AVENUE)



OVERBUILD DETAIL


N.T.S.

OVERBUILD DETAILS						
LOCATION		EXIST. SLOPE (%)	PROPOSED SLOPE (%)	MAX. DEPTH OF OVERBUILD (IN.)	WIDTH OF OVERBUILD (FT.)	AREA OF OVERBUILD (SQ. FT.)
STATION	LANE(S)					
110+90	WB THRU & LEFT TURN LANE	(+) 0.27 - 2.62	MATCH EXISTING	4.0	23.9	7.9
111+00	WB THRU & LEFT TURN LANE	(+) 0.27 - (-) 1.75	(+) 2.0	6.3	23.9	12.6
111+10	WB THRU & LEFT TURN LANE	(+) 0.27 - (-) 1.75	(+) 2.0	8.4	23.2	16.3
111+20	WB THRU & LEFT TURN LANE	(-) 1.66	(+) 2.0	9.6	22.6	18.0
111+30	WB THRU & LEFT TURN LANE	(+) 0.087 - (-) 1.75	(+) 2.0	7.7	21.5	13.8
111+40	WB THRU & LEFT TURN LANE	(+) 0.087 - (-) 1.76	(+) 2.0	5.5	20.5	9.3
111+50	WB THRU & LEFT TURN LANE	(+) 0.087 - (+) 2.19	(+) 2.0	3.4	18.4	5.2
111+60	WB THRU & LEFT TURN LANE	(+) 0.087 - (+) 2.19	MATCH EXISTING	1.2	17.4	1.7

				BY	DATE
			DESIGNED	RWS	12/13/20
			DRAWN	RWS	2/13/21
REVISIONS	BY	DATE	CHECKED	ASP	2/25/21

CITY OF TARPON SPRINGS

ROADWAY  
CONSTRUCTION DETAILS

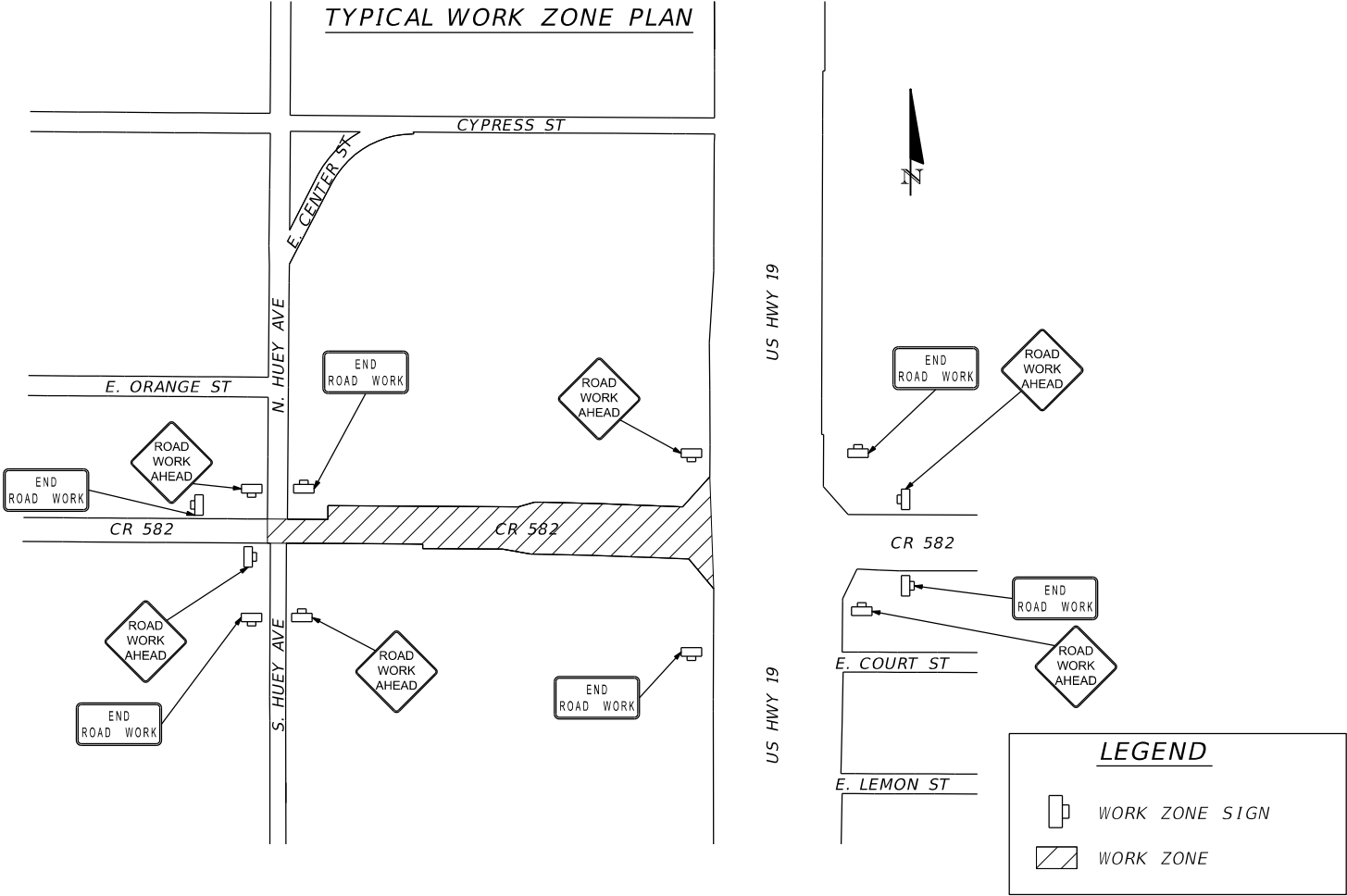


**American**  
Consulting Engineers of Florida, LLC  
2818 Cypress Ridge Blvd, Suite 200  
Wesley Chapel, Florida 33544  
Phone: (813) 435-2600 Fax: (813) 435-2601  
Certificate of Authorization No. 9302  
Erik C. Leschak, P.E. No. 63874

DATE: 5/14/2021  
SCALE: 1" = 20'  
SHEET: 15 of 39

MAINTENANCE OF TRAFFIC GENERAL NOTES

1. ALL TRAFFIC CONTROL DEVICES AND SCHEMES SHALL CONFORM TO THE FHWA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (2009) AND FDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
2. SIDE STREET AND LOCAL ACCESS SHALL BE MAINTAINED TO THE MAXIMUM EXTENT POSSIBLE FOR ALL PHASES OF CONSTRUCTION.
3. WHERE OPEN TRENCHES EXIST ADJACENT TO TRAVEL LANES A TEMPORARY BARRIER SHALL BE USED. UPON COMPLETION OF THE WORK, THE TRENCHES SHALL BE FILLED AND ACCESS RESTORED USING TEMPORARY FILL MATERIAL.
4. TEMPORARY STOP SIGNS SHALL BE INSTALLED AS REQUIRED DURING CONSTRUCTION TO MAINTAIN SAFE OPERATION OF THE SIDE ROAD TRAFFIC.
5. TRAFFIC MUST BE MAINTAINED AT ALL TIMES IN ACCORDANCE WITH THE CITY OF TARPON SPRINGS STANDARDS AND THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. THE CONTRACTOR SHALL FURNISH, ERECT, AND MAINTAIN ALL NECESSARY TRAFFIC CONTROL AND SAFETY DEVICES. THE CONTRACTOR SHALL SUBMIT A MAINTENANCE OF TRAFFIC PLAN TO THE CITY FOR APPROVAL AT LEAST SEVEN CALENDAR DAYS PRIOR TO THE START OF CONSTRUCTION.
6. IF DETOURS ARE UTILIZED, DETOUR SIGNING SHALL BE ERECTED PRIOR TO OPENING THE DETOUR ROUTE.
7. ALL STREETS MUST BE OPEN TO LOCAL TRAFFIC DURING WORKING AND NON-WORKING HOURS. WORKING HOURS TO BE INCLUDED IN CONTRACTOR'S MAINTENANCE OF TRAFFIC PLAN AND SUBJECT TO APPROVAL BY THE CITY.
8. CONSTRUCTION SIGN LOCATIONS MAY BE ADJUSTED BY THE ENGINEER BASED ON FIELD CONDITIONS.
9. PAYMENT FOR ALL ITEMS OUTLINED ABOVE AND AS REQUIRED FOR MAINTAINING TRAFFIC SHALL BE INCLUDED IN THE LUMP SUM UNIT COST FOR MAINTENANCE OF TRAFFIC, AND NO ADDITIONAL CLAIMS FOR TRAFFIC CONTROL WILL BE CONSIDERED.
10. EXISTING TRAFFIC SIGNAL WILL BE MAINTAINED UNTIL PROPOSED IS FULLY OPERATIONAL. THE PROPOSED DIAGONAL SPAN WILL BE USED AS EXISTING DIAGONAL SPAN IS RESTRUNG. CONTRACTOR TO SUBMIT CUT OVER PLAN FOR ENGINEER'S APPROVAL PRIOR TO INSTALLING NEW SPAN WIRE AND NEW TRAFFIC SIGNAL HEADS. THE CUT OVER PLAN MUST INCLUDE MAINTAINENCE OF TRAFFIC DETAILS FOR LANE CLOSURES OR COMPLETE INTERSECTION CLOSURE WITH DETOUR ROUTES IF NECESSARY.
11. EXISTING SIGNAGE WILL BE MAINTAINED, ALONG WITH ANY TEMPORARY BUSINESS SIGNAGE, DURING CONSTRUCTION. UNLESS OTHERWISE NOTED IN THE SIGNING AND PAVMENT MARKING PLAN, EXISTING SIGNS WILL BE REPLACED WITH NEW.
12. DURING CONSTRUCTION, THE CONTRACTOR SHALL ADD INLET PROTECTION DEVICES TO ALL INLETS IN THE PROJECT LIMITS.
13. THE CONTRACTOR SHALL PERFORM ALL CONSTRUCTION STAKEOUTS.
14. THE CONTRACTOR SHALL MAINTAIN THE RIGHT-OF-WAY DURING CONSTRUCTION IN A SATISFACTORY MANNER TO PREVENT THE DEPOSITION OF SAND, DUST, ETC. BY WATER OR WIND EROSION ONTO ADJACENT PROPERTIES. EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO BEGINNING CONSTRUCTION.
15. CONTRACTOR SHALL RESET ALL HORIZONTAL AND VERTICAL CONTROL POINTS OVERLAYED OR DESTROYED DURING CONSTRUCTION.
16. RECONSTRUCTED DRIVEWAYS SHALL MATCH EXISTING MATERIAL (CONCRETE OR ASPHALT OR PAVERS).
17. THE CONTRACTOR SHALL BE RESPONSIBLE TO SATISFY ALL PERMIT REQUIREMENTS IN REGARDS TO CONSTRUCTION ACTIVITIES AND RELATED CONDITIONS.
18. THE CONTRACTOR SHALL REPLACE AND RESTORE ALL PAVING, STABILIZED EARTH, CURBS, DRIVEWAYS, SIDEWALKS, DRAINAGE PIPES, FENCES, WALLS, PLANTINGS, ETC. WITH THE SAME TYPE OF MATERIAL OR BETTER THAN THAT WHICH WAS REMOVED OR DISTURBED DURING CONSTRUCTION. COST FOR THIS WORK SHALL BE INCLUDED IN THE COST OF OTHER ITEMS.
19. THE CONTRACTOR SHALL GRADE STREETS AS NECESSARY DURING CONSTRUCTION TO MAINTAIN A UNIFORM RIDEABLE SURFACE AS DETERMINED BY THE ENGINEER.
20. THE CONTRACTOR SHALL CONSTRUCT ALL CURB RAMPS TO THE REQUIREMENTS SET FORTH BY THE FDOT AND IN FDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION INDEX 522-002 AND AS AMENDED BY THE PLANS.
21. FOR ALL COMPACTION ON THE PROJECT, VIBRATORY COMPACTION WILL NOT BE ALLOWED. STATIC COMPACTION ONLY.



				BY	DATE	CITY OF TARPON SPRINGS	TRAFFIC CONTROL PLAN	<div><div><div><div><div><div></div><div>American</div></div></div><div>Consulting Engineers of Florida, LLC</div><div>2818 Cypress Ridge Blvd, Suite 200 Wesley Chapel, Florida 33544 Phone: (813) 435-2600 Fax: (813) 435-2601 Certificate of Authorization No. 9302 Erik C. Leschak, P.E. No. 63874</div></div></div><div>DATE: 5/14/2021</div><div>SCALE: NTS</div><div>SHEET: 16 of 39</div></div>
			DESIGNED	RWS	12/18/20			
			DRAWN	RWS	2/13/21			
REVISIONS	BY	DATE	CHECKED	ASP	2/25/21			

5. EXISTING UTILITIES:

- A) THE CONTRACTOR IS RESPONSIBLE TO VERIFY THE EXACT LOCATION OF AND TO PROTECT DURING CONSTRUCTION ALL EXISTING UTILITIES.
- B) PRIOR TO MOBILIZATION, THE CONTRACTOR SHALL NOTIFY THE INDIVIDUALS LISTED BELOW AND SCHEDULE CONSTRUCTION ACTIVITIES IN A MANNER WHICH WILL FACILITATE THE REMOVAL AND RELOCATION OF ANY CONFLICTING UTILITIES.
- C) THE CONTRACTOR SHALL NOTIFY ALL UTILITY OWNERS AND CONFIRM LOCATIONS OF UTILITIES AT LEAST 48 HOURS BEFORE BEGINNING CONSTRUCTION. ANY DAMAGE RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- D) ALL UTILITY SERVICES SHALL BE MAINTAINED DURING THE ENTIRE CONSTRUCTION PERIOD OR TEMPORARY FACILITIES PROVIDED.
- E) IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO CONTACT SUNSHINE 811 FOR UTILITY LOCATIONS PRIOR TO THE START OF CONSTRUCTION.

F) UTILITY OWNERS:

CITY OF TARPON SPRINGS  
1624 L & R INDUSTRIAL BOULEVARD  
TARPON SPRINGS, FL 34689  
CONTACT: HEATHER FREUNDEL  
PHONE: 727-937-2557 EXT: 2710

PINELLAS COUNTY HWY/ENG  
22211 US 19 N  
CLEARWATER, FL 33756  
CONTACT: JAMES JOHNSON  
PHONE: 727-464-8981

BLACK & VEATCH TAMPA 1F  
3550 BUSHWOOD PARK DR  
SUITE 180  
TAMPA, FL 33618  
CONTACT: SHANE CARROLL  
PHONE: 813-477-9954

UNITI FIBER LLC  
805 EXCUTIVE CENTER DRIVE W.  
SUITE 110  
ST. PETERSBURG, FL 33702  
CONTACT: TERRY YOUNG  
PHONE: 251-422-3872

CLEARWATER GAS SYSTEMS  
777 MAPLE ST  
CLEARWATER, FL 33755  
CONTACT: JACINTA GARCIA CORCOBA  
PHONE: 727-562-4900 EXT:7423

KNOLOGY BROADBAND OF FLORIDA DBA WOW!  
3001 N. GANDY BLVD.  
PINELLAS PARK, FL 33782  
CONTACT: DAVE HAMLIN  
PHONE: 678-409-8721

SPECTRUM  
700 CARILLON PKWY SUITE 6  
ST PETERSBURG, FL 33716  
CONTACT: OSWALDO PEREZ  
PHONE: 727-329-2817

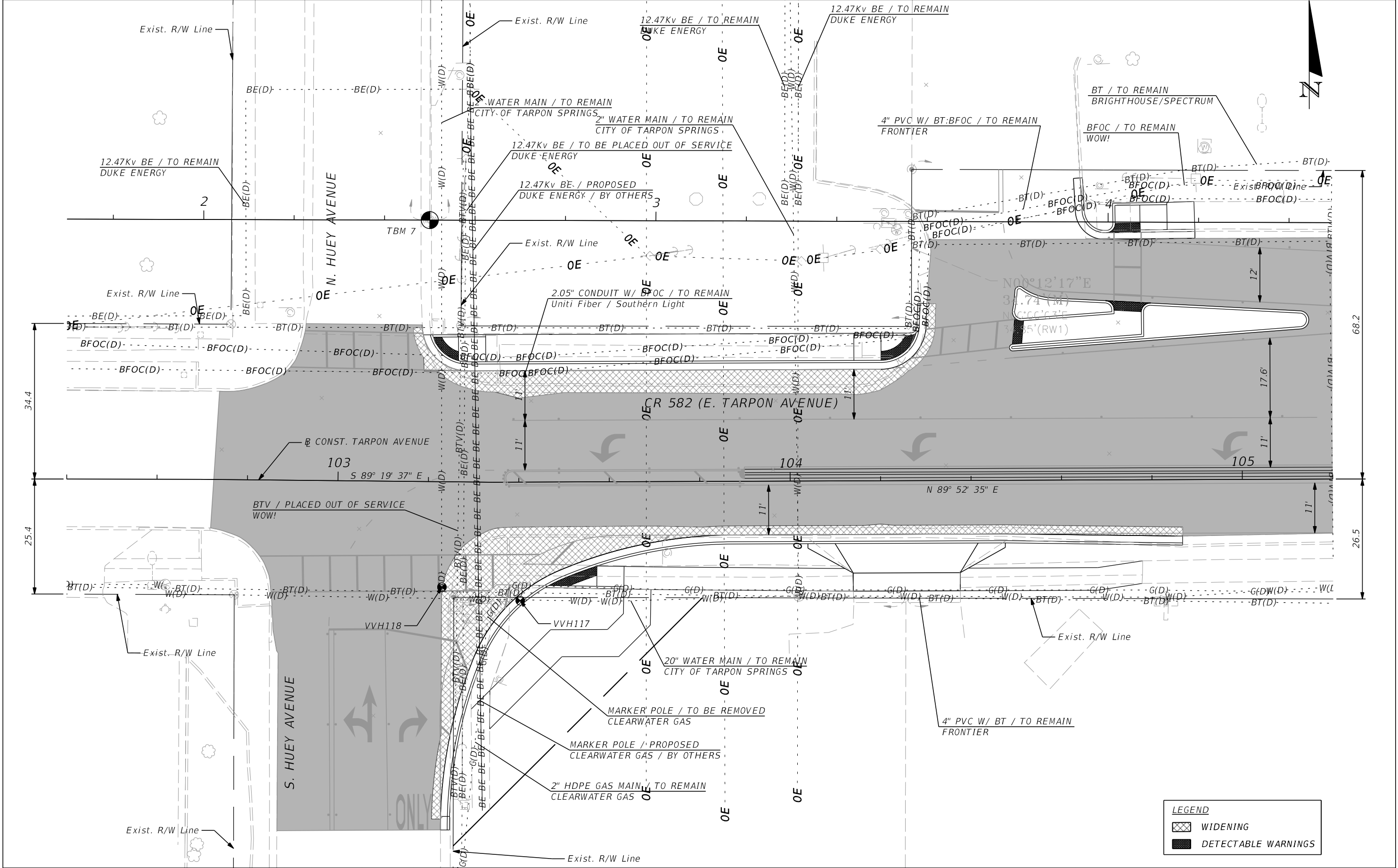
PINELLAS COUNTY DEPARTMENT OF ENVIRONMENT & INFRASTRUCTURE  
22211 US 19/BLDG. 1  
CLEARWATER FLORIDA 33765  
CONTACT: VINCENT E. HARPER  
PHONE: 727-464-8980

FRONTIER COMMUNICATIONS  
1280 CLEVELAND ST.  
CLEARWATER, FL 33755  
CONTACT: RICK STRATTON  
PHONE: 727-562-1130

PINELLAS COUNTY UTILITIES  
14 SOUTH FT. HARRISON  
CLEARWATER, FL 33756  
CONTACT: JAY PERKINS  
PHONE: 727-464-3536  
FAX: 727-464-3595

DUKE ENERGY  
4121 ST. LAWRENCE DR  
NEW PORT RICHEY, FL 34653  
CONTACT: BILL RULAND  
PHONE: 727-820-4641

TEST HOLE NAME	NORTHING	EASTING	SURFACE	DEPTH	TOP	DESCRIPTION	OWNER
VVH101	1386674.92	416978.33	8.45'	2.51'	5.94'	2" DIRECT BURIED TELEPHONE	CLEARWATER GAS
VVH103	1386672.79	416978.20	8.45'	4.32'	4.13'	4" PVC BURIED TELEPHONE (xUNK)	FRONTIER
VVH104	1386671.38	416978.44	8.40'	4.34'	4.06'	SOUTH EDGE OF BURIED TELEPHONE DUCT	FRONTIER
VVH105	1386668.22	416978.02	8.39'	2.72'	5.67'	CONCRETE CAP	UNKNOWN
VVH106	1386568.06	416852.79	9.08'	2.55'	6.53'	2" PVC TRAFFIC	PINELLAS COUNTY
VVH107	13886567.67	416851.11	9.10'	4.80'	4.30'	WATER MAIN (SIZE NFV)	CITY OF TARPON SPRINGS
VVH108	1386564.05	416853.47	9.19'	2.25'	6.94'	4" PVC BURIED TELEPHONE	FRONTIER
VVH109	1386562.05	416853.32	9.13'	2.39'	6.74'	2" PVC BURIED CATV (x2)	FRONTIER
VVH110	1386564.35	416866.36	8.68'	4.34'	4.34'	1" DIRECT BURIED TELEPHONE	FRONTIER
VVH111	1386561.29	416865.95	8.54'	2.08'	6.46'	2" POLYETHYLENE CABEL TV	CHARTER
VVH112	1386566.57	416863.34	8.84'	3.60'	5.24'	2" PVC TRAFFIC	PINELLAS COUNTY
VVH113	1386567.01	416864.66	8.83'	4.60'	4.23'	WATER MAIN (SIZE NFV)	CITY OF TARPON SPRINGS
VVH114	1386559.35	416868.88	8.49'	3.68'	4.81'	8" PVC WATER MAIN	CITY OF TARPON SPRINGS
VVH115	1386673.85	416997.26	8.53'	2.66'	5.87'	2" POLYETHYLENE GAS MAIN	CLEARWATER GAS
VVH116	1386672.67	416997.21	8.60'	4.61'	3.99'	4" PVC BURIED TELEPHONE (x5)	FRONTIER
VVH117	1386576.89	416338.42	14.74'	3.67'	11.07'	20" CIP WATER MAIN	CITY OF TARPON SPRINGS
VVH118	1386579.95	426321.08	14.76'	3.00' (ELEC.)	11.76'	WATER MAIN (SIZE AND DEPTH NFV) (ELECTRIC DEPTH ONLY)	CITY OF TARPON SPRINGS



REVISIONS	BY	DATE	CHECKED	ASP	2/25/21
			DRAWN	RWS	2/13/21
			DESIGNED	RWS	1/13/21

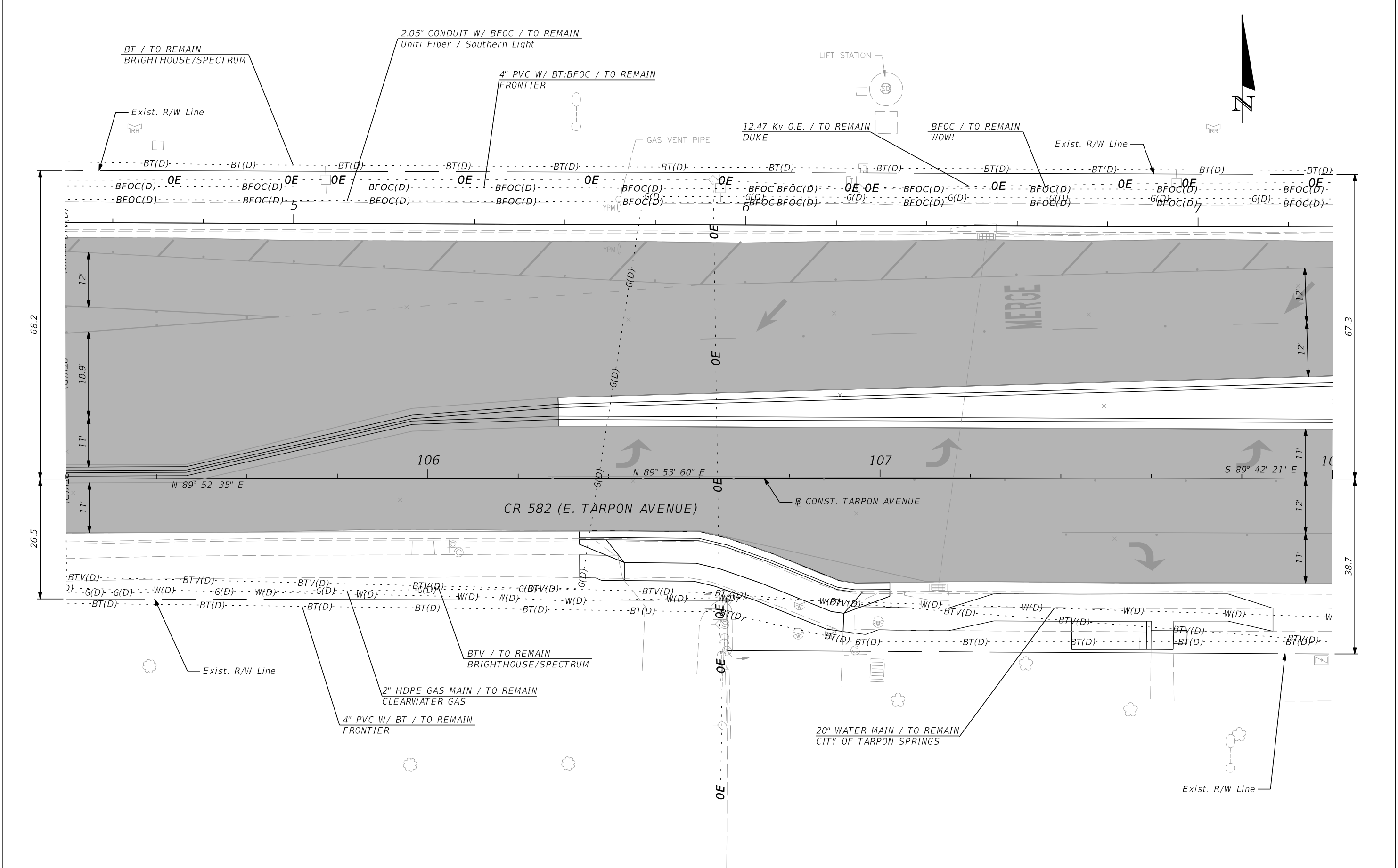
CITY OF TARPON SPRINGS

UTILITY ADJUSTMENT  
SHEET (1)

**American**  
Consulting Engineers of Florida, LLC  
2818 Cypress Ridge Blvd, Suite 200  
Wesley Chapel, Florida 33544  
Phone: (813) 435-2600 Fax: (813) 435-2601  
Certificate of Authorization No. 9302  
Erik C. Leschak, P.E. No. 63874

DATE: 5/14/2021  
SCALE: 1" = 20'  
SHEET: 18 of 39

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



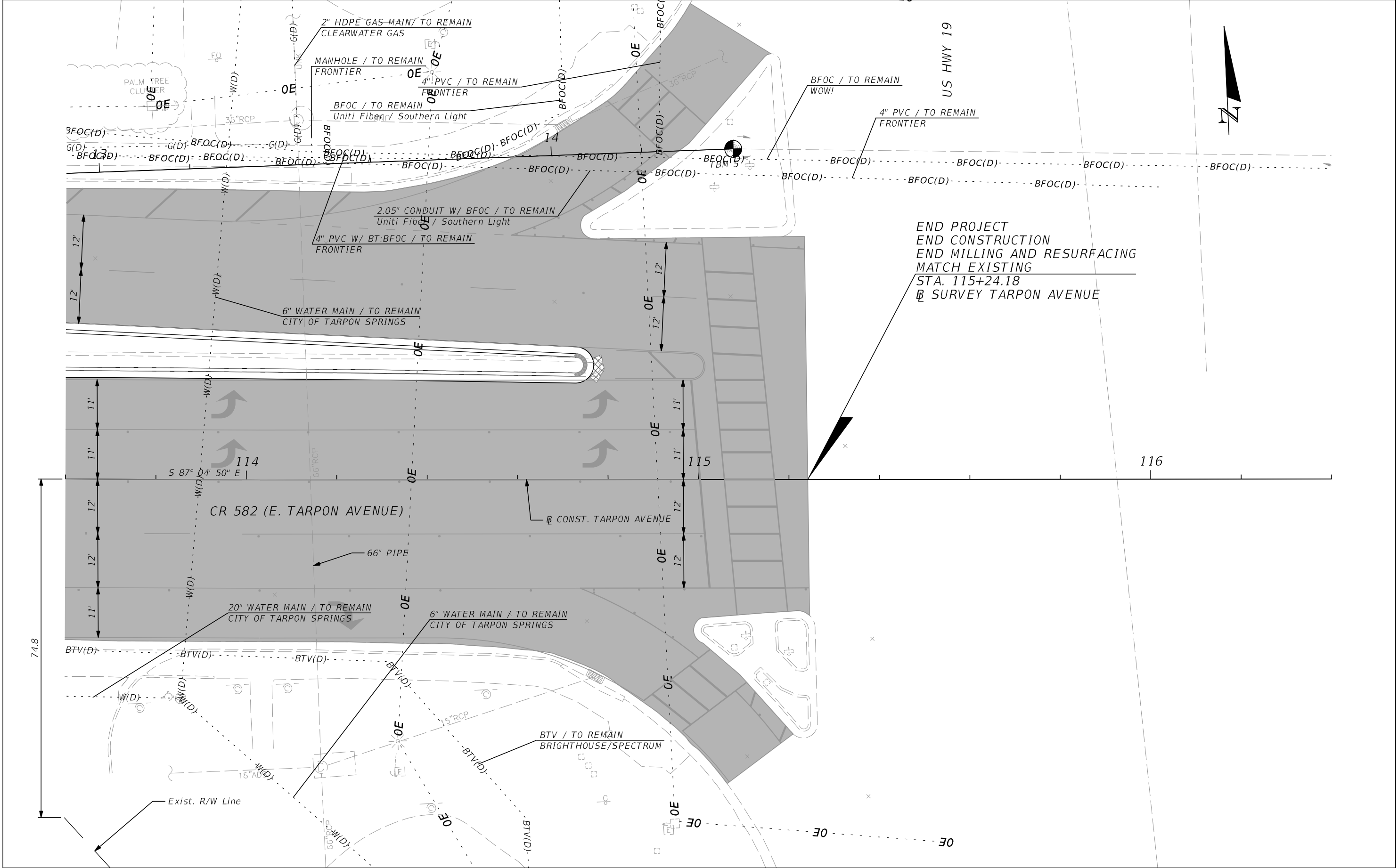
				BY	DATE	CITY OF TARPON SPRINGS	UTILITY ADJUSTMENT SHEET (2)	<div><div><div><div></div><div>American</div></div><div>Consulting Engineers of Florida, LLC</div><div>2818 Cypress Ridge Blvd, Suite 200</div><div>Wesley Chapel, Florida 33544</div><div>Phone: (813) 435-2600 Fax: (813) 435-2601</div><div>Certificate of Authorization No. 9302</div><div>Erik C. Leschak, P.E. No. 63874</div></div></div>	DATE: 5/14/2021
				DESIGNED	RWS 1/13/21				SCALE: 1" = 20'
				DRAWN	RWS 2/13/21				SHEET: 19 of 39
REVISIONS	BY	DATE	CHECKED	ASP	2/25/21				

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			BY	DATE
		DESIGNED	RWS	1/13/21
		DRAWN	RWS	2/13/21
REVISIONS	BY	DATE	CHECKED	ASP 2/25/21

CITY OF TARPON SPRINGS

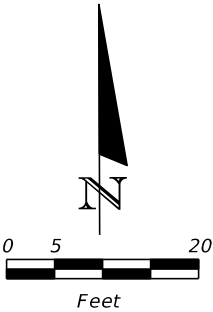
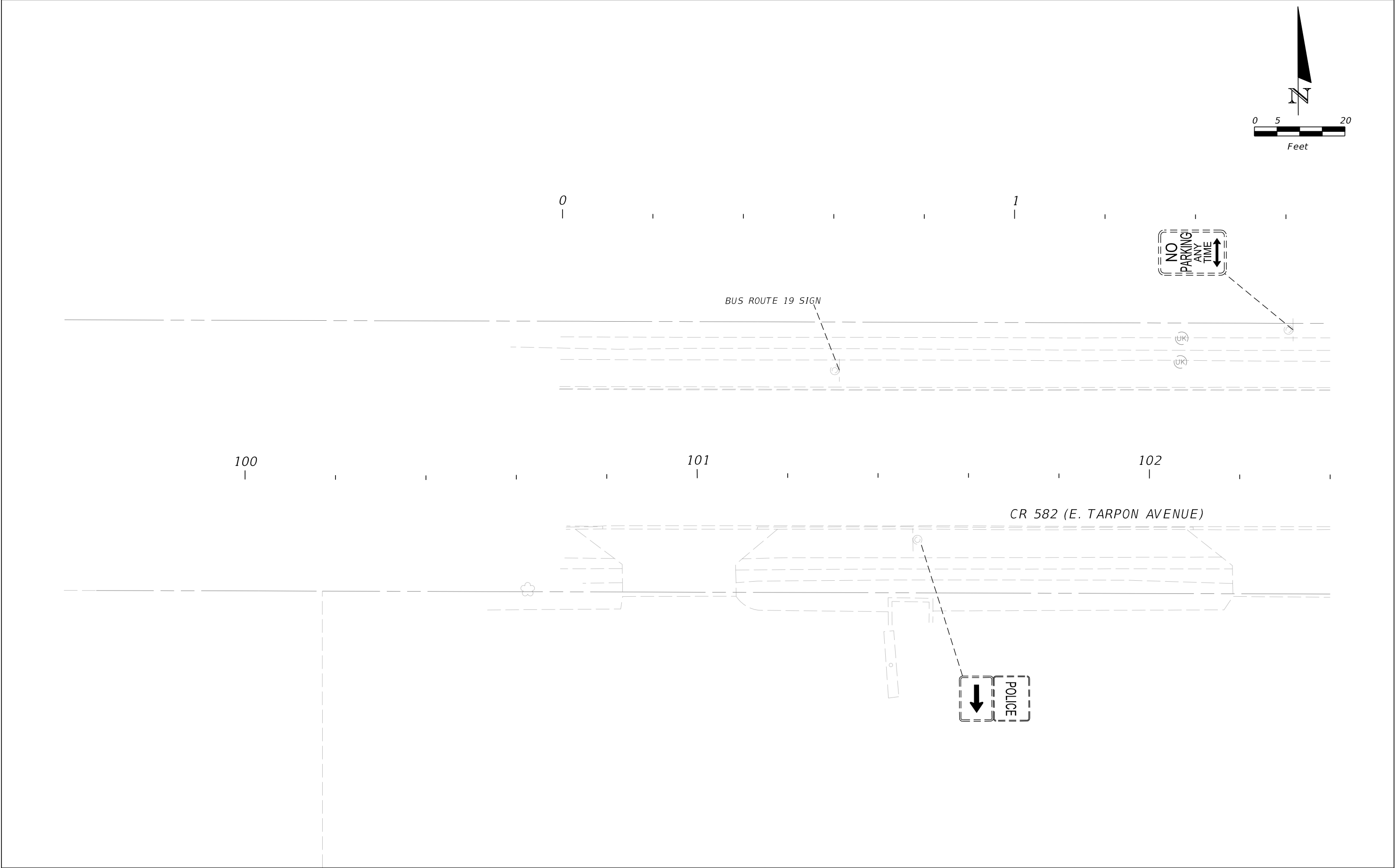
UTILITY SHEET (5)



**American**  
Consulting Engineers of Florida, LLC  
2818 Cypress Ridge Blvd, Suite 200  
Wesley Chapel, Florida 33544  
Phone: (813) 435-2600 Fax: (813) 435-2601  
Certificate of Authorization No. 9302  
Erik C. Leschak, P.E. No. 63874

DATE:	5/14/2021
SCALE:	1" = 20'
SHEET:	22 of 39

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				BY	DATE	CITY OF TARPON SPRINGS	SIGNING AND PAVEMENT MARKING PLAN	 American Consulting Engineers of Florida, LLC 2818 Cypress Ridge Blvd, Suite 200 Wesley Chapel, Florida 33544 Phone: (813) 435-2600 Fax: (813) 435-2601 Gordon D. Ziecina, P.E. No. 33770	DATE: 5/14/2021
			DESIGNED	GZ	01/20/21				SCALE: 1"=20'
			DRAWN	JL	01/20/21				SHEET: 23 of 39
REVISIONS	BY	DATE	CHECKED	GZ	01/21/21				

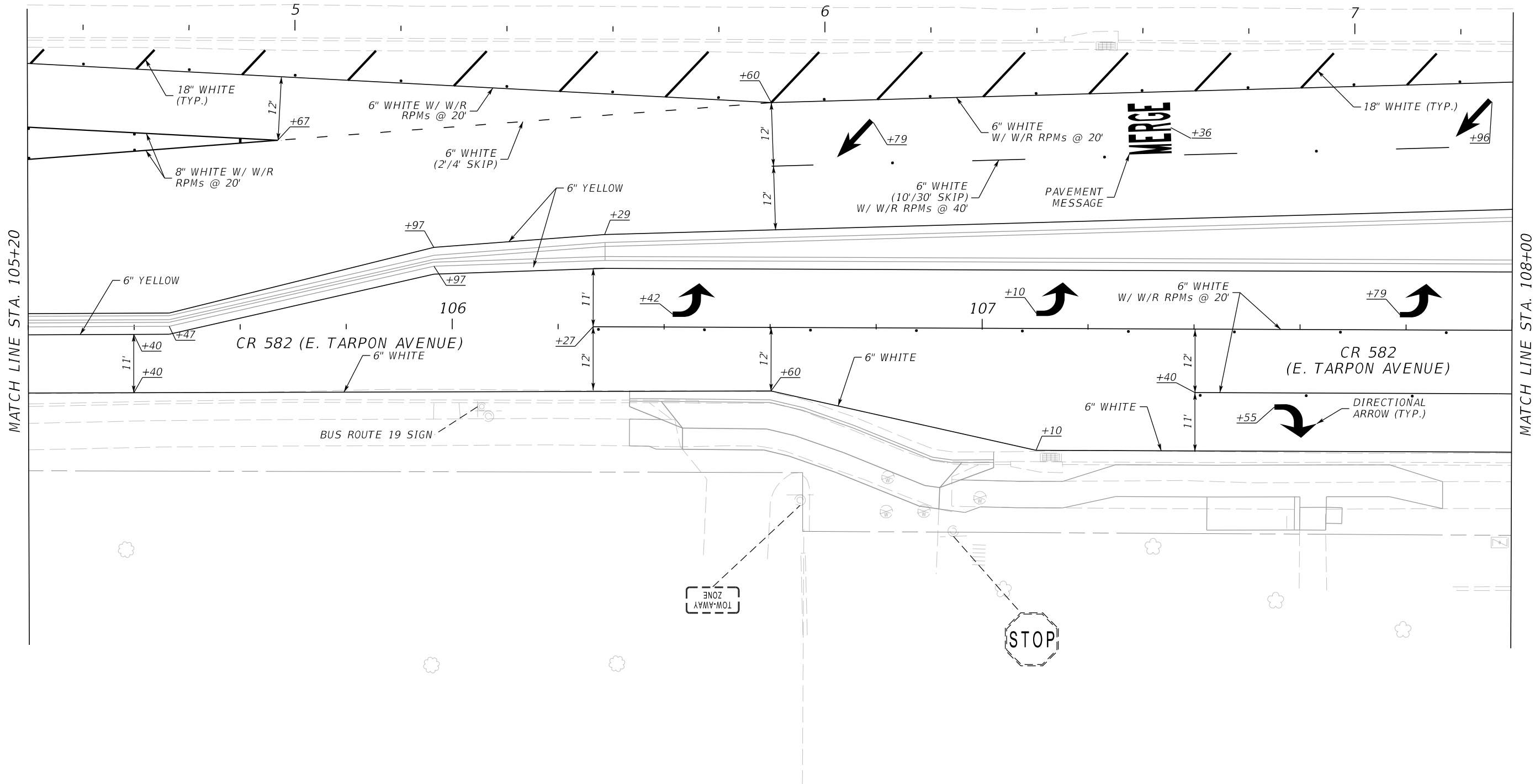
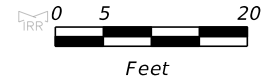
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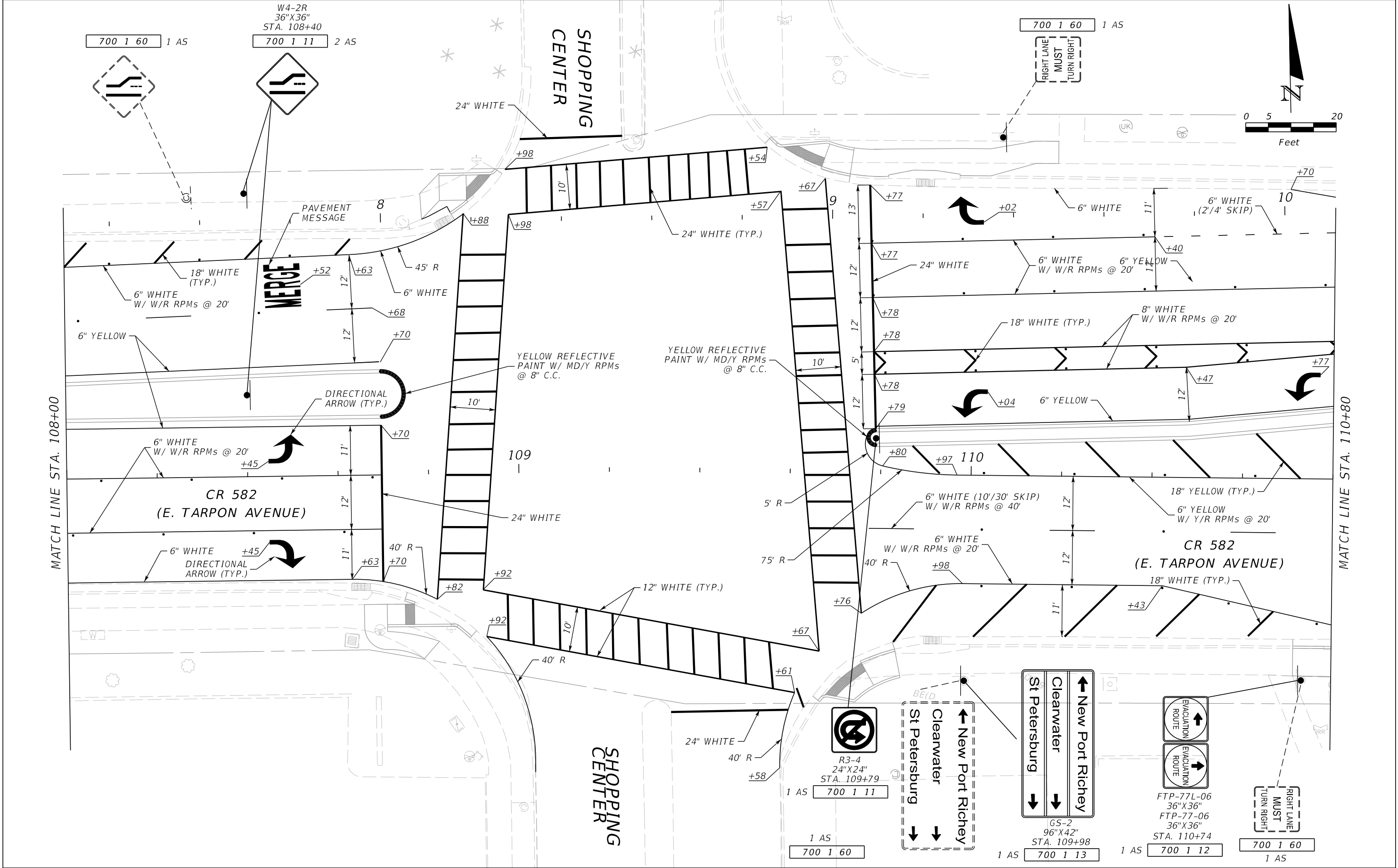
REVISIONS	BY	DATE	CHECKED	GZ	DATE

CITY OF TARPON SPRINGS	
DESIGNED	GZ 01/20/21
DRAWN	JL 01/20/21
CHECKED	GZ 01/21/21

SIGNING AND PAVEMENT MARKING PLAN	
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2818 Cypress Ridge Blvd, Suite 200  
Wesley Chapel, Florida 33544  
Phone: (813) 435-2600 Fax: (813) 435-2601  
Gordon D. Ziecina, P.E. No. 33770

DATE:	5/14/2021
SCALE:	1"=20'
SHEET:	25 of 39



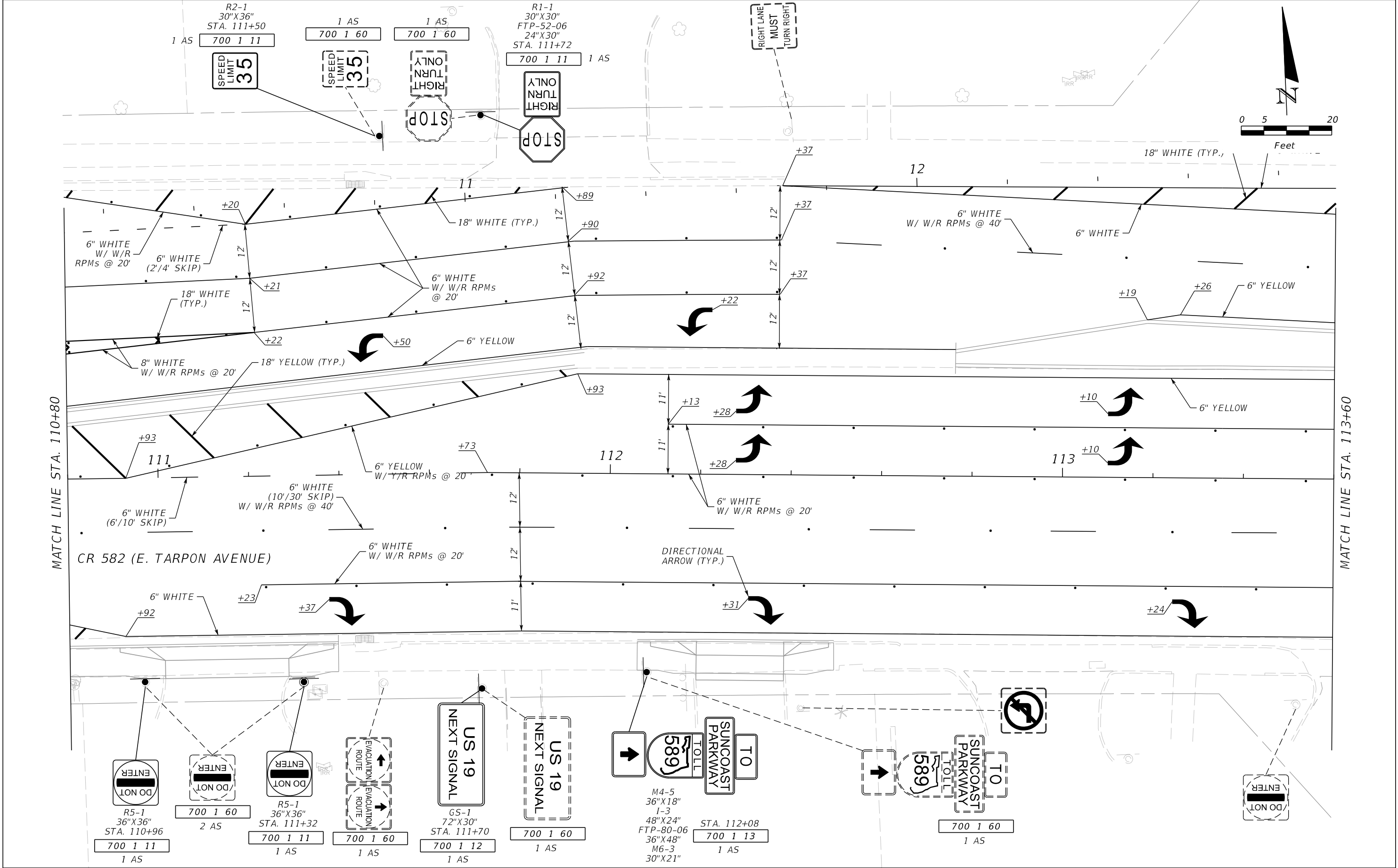
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			DRAWN	JL	01/20/21
			DESIGNED	GZ	01/20/21

CITY OF TARPON SPRINGS	DATE	5/14/2021
	BY	GZ

SIGNING AND PAVEMENT MARKING PLAN	DATE	5/14/2021
	BY	GZ

AMERICAN	DATE	5/14/2021
Consulting Engineers of Florida, LLC	SCALE	1"=20'
2818 Cypress Ridge Blvd, Suite 200 Wesley Chapel, Florida 33544 Phone: (813) 435-2600 Fax: (813) 435-2601 Gordon D. Ziecina, P.E. No. 33770	SHEET	26 of 39

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REVISIONS				BY	DATE
			DESIGNED	GZ	01/20/21
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			CHECKED	GZ	01/21/21

CITY OF TARPON SPRINGS

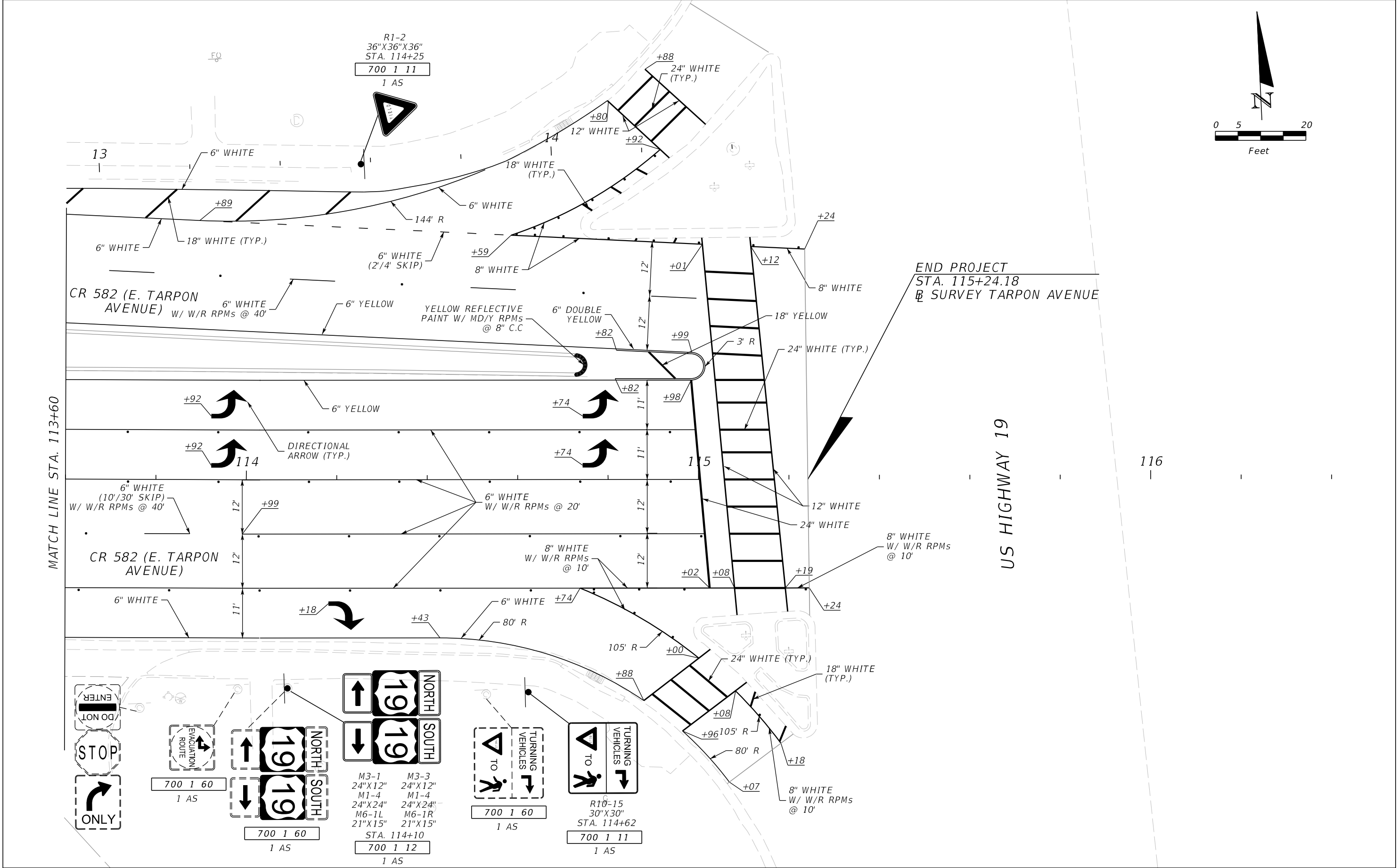
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SIGNING AND PAVEMENT MARKING PLAN

2818 Cypress Ridge Blvd, Suite 200  
Wesley Chapel, Florida 33544  
Phone: (813) 435-2600 Fax: (813) 435-2601  
Gordon D. Ziecina, P.E. No. 33770

DATE:	5/14/2021
SCALE:	1"=20'
SHEET:	27 of 39

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		REVISIONS	BY	DATE	CHECKED	GZ	01/21/21	CITY OF TARPON SPRINGS	SIGNING AND PAVEMENT MARKING PLAN	<div><div><div><div><div></div><div>American</div></div><div>Consulting Engineers of Florida, LLC</div><div>2818 Cypress Ridge Blvd, Suite 200 Wesley Chapel, Florida 33544 Phone: (813) 435-2600 Fax: (813) 435-2601 Gordon D. Ziecina, P.E. No. 33770</div></div></div><div>DATE: 5/14/2021</div><div>SCALE: 1"=20'</div><div>SHEET: 28 of 39</div></div>

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TRAFFIC SIGNAL GENERAL NOTES:

GOVERNMENT SPECIFICATIONS AND STANDARDS:

D-1) FLORIDA DEPARTMENT OF TRANSPORTATION DIVISION II AND III OF "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", (JANUARY 2022) AND ALL SUPPLEMENTAL SPECIFICATIONS THERETO. STANDARDS SPECIFICATIONS ARE AVAILABLE AT THE FOLLOWING WEBSITE: HTTP://WWW.FDOT.GOV/PROGRAMMANAGEMENT/IMPLEMENTED/SPECBOOKS

D-2) FLORIDA DEPARTMENT OF TRANSPORTATION FY(2021-22) STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION AND APPLICABLE INTERIM REVISIONS (IRs). STANDARD PLANS FOR ROAD CONSTRUCTION AND IRs ARE AVAILABLE AT THE FOLLOWING WEBSITE: HTTP://WWW.FDOT.GOV/DESIGN/STANDARDPLANS COMPLIANCE WITH ALL APPLICABLE INDICES IS REQUIRED.

D-3) STATE OF FLORIDA "MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS", 2016(FLORIDA GREENBOOK) HTTP://WWW.FDOT.GOV/ROADWAY/FLORIDAGREENBOOK/FGB.SHTM

D-4) PINELLAS COUNTY "STANDARD TECHNICAL SPECIFICATIONS FOR UTILITIES & RELATED CONSTRUCTION" LATEST EDITION AVAILABLE ON-LINE: HTTP://WWW.PINELLASCOUNTY.ORG/TECHNICAL

D-5) PINELLAS COUNTY "STANDARD ENGINEERING DETAILS" LATEST EDITION AVAILABLE ON-LINE: HTTP://WWW.PINELLASCOUNTY.ORG/TECHNICAL

D-6) PINELLAS COUNTY "TRAFFIC OPERATIONS SIGNAL STANDARDS" LATEST EDITION AVAILABLE BY REQUEST.

ALL WORK WITHIN FDOT RIGHT OF WAY SHALL CONFORM TO:

A. FLORIDA DEPARTMENT OF TRANSPORTATION DIVISION II AND III OF "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", (JANUARY 2022) AND ALL SUPPLEMENTAL SPECIFICATIONS THERETO.

B. FLORIDA DEPARTMENT OF TRANSPORTATION (FY 2021-22) STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION AND APPLICABLE INTERIM REVISIONS (IRs). COMPLIANCE WITH ALL APPLICABLE INDICES IS REQUIRED.

WHEN FDOT AND PINELLAS COUNTY SPECIFICATIONS DIFFER, PINELLAS COUNTY SPECIFICATIONS SHALL TAKE PRECEDENCE IF PINELLAS COUNTY'S IS MORE STRINGENT AS DETERMINED BY THE ENGINEER.

NOTIFICATIONS:

1. CONTACT PINELLAS COUNTY TRAFFIC ENGINEERING, (727-464-8922) PRIOR TO THE BEGINNING OF WORK TO CHECK FOR UPDATES TO STANDARDS OR OTHER INFORMATION.
2. ONE WEEK PRIOR TO THE BEGINNING OF WORK, NOTIFY:

MR. JOHN LEMONIAS, PINELLAS COUNTY  
22211 US 19 NORTH  
CLEARWATER, FL 33765  
PHONE: (727) 420-6270

MR. JOE PARRISH, PINELLAS COUNTY  
22211 US 19 NORTH  
CLEARWATER, FL 33765  
PHONE: (727) 448-4528

MR. WAYNE DEMPSEY  
FDOT DISTRICT SEVEN TRAFFIC OPERATIONS  
CONSTRUCTION LIAISON  
FLORIDA DEPARTMENT OF TRANSPORTATION  
11201 NORTH MCKINLEY DRIVE  
TAMPA, FLORIDA 33612  
PHONE (813) 975-6226

3. GIVE THE ENGINEER A MINIMUM OF TWO BUSINESS DAYS NOTICE PRIOR TO INSTALLATION OF STRUCTURES AND STRAIN POLES FOR FINAL LOCATION APPROVAL.
4. OBTAIN LOCAL PERMITS TO WORK OUTSIDE THE FDOT AND COUNTY RIGHT OF WAY ON LOCAL STREETS.

WORK SUPERVISION:

1. HAVE AN I.M.S.A CERTIFIED LEVEL II (ELECTRONICS OR ELECTRICAL) TECHNICIAN ON THE JOB SITE AT ALL TIMES WHEN WORKING WITHIN THE TRAFFIC CONTROLLER CABINET, SIGNAL POLES OR MAST ARM ASSEMBLIES.
2. BE AVAILABLE TO RESPOND TO CALLS TWENTY-FOUR HOURS A DAY, SEVEN DAYS A WEEK. WITHIN THREE HOURS OF NOTIFICATION OR DOCUMENTED ATTEMPTED NOTIFICATION, BE ON-SITE MAKING NEEDED REPAIRS OR MODIFICATIONS. FAILURE TO MEET THE TIME REQUIREMENTS GIVES THE COUNTY, AT THEIR DISCRETION, THE RIGHT TO REQUEST ASSISTANCE FROM LOCAL LAW ENFORCEMENT TO CONTROL TRAFFIC FOR THE PERIOD OF TIME UNTIL A RESPONSE AND NEEDED REPAIRS ARE MADE. THE COST FOR LAW ENFORCEMENT SHALL BE YOUR RESPONSIBILITY. THE COUNTY, AT THEIR DISCRETION, ALSO HAS THE RIGHT TO BRING IN ASSISTANCE TO MAKE NEEDED REPAIRS AND BE REIMBURSED, IF THE TIME REQUIREMENTS CANNOT BE MET.

TRAFFIC CONTROL/EQUIPMENT:

1. UNLESS OTHERWISE NOTED, ALL REMOVED AND SURPLUS EQUIPMENT SHALL BE TURNED OVER AND DELIVERED TO THE PINELLAS COUNTY TRAFFIC SIGNAL SHOP, BETWEEN 6:30 AM AND 4:30 PM MONDAY THRU THURSDAY, LOCATED AT 22211 US 19 NORTH, CLEARWATER, FL 33765. PROVIDE A MINIMUM FORTY-EIGHT HOURS NOTICE PRIOR TO DELIVERY. THE CONTACT PHONE NUMBER IS (727) 464-8922.
2. ALL EXISTING SIGNALIZATION SHALL REMAIN IN PLACE, INCLUDING VEHICLE ACTUATION AND PEDESTRIAN SIGNAL OPERATIONS. ALL ACTUATED PHASE SHALL BE MAINTAINED DURING THE PROJECT. INCLUDING WHEN/IF LOOPS ARE DAMAGED. THE USE OF MICROWAVE DETECTORS OR THE INSTALLATION OF NEW LOOPS WITHIN 48 HOURS OF THE DAMAGE SHALL BE REQUIRED. WHEN REPLACING EXISTING LOOPS, THE CONTRACTOR MAY USE TEMPORARY MICROWAVE OR VIDEO DETECTORS TO KEEP ACTUATED PHASES FUNCTIONING.

FIELD VERIFICATION AND ADJUSTMENTS:

1. ADJUST EQUIPMENT OR COMMUNICATION INFRASTRUCTURE FROM LOCATIONS SHOWN ON THE PLANS WHEN NECESSARY DUE TO FIELD CONDITIONS AFTER APPROVAL FROM THE ENGINEER. ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS SHALL BE RECORDED ON THE AS- BUILT PLANS AND TABULATION SHEETS.
2. FIELD VERIFY THE CONDITION OF ANY EXISTING CONDUIT THAT MAY BE PROPOSED FOR USE. NOTIFY THE ENGINEER IMMEDIATELY OF ANY LOCATIONS WHERE THE EXISTING CONDUIT IS DAMAGED TO THE POINT IT CANNOT BE USED.
3. NO SURVEY IS PROVIDED FOR THIS CONTRACT. RIGHT-OF-WAY LINES SHOWN ON THE PLANS ARE PROVIDED FROM COUNTY TAX MAPS. INSTALL ALL PROJECT INFRASTRUCTURE AND FIELD ELEMENTS WITHIN THE RIGHT-OF-WAY. BE RESPONSIBLE FOR ESTABLISHING THE BASE-LINE AND RIGHT-OF-WAY FOR PROPER STAKING OF STRUCTURES AND POLES.
4. THESE SIGNAL PLANS REFLECT CONDITIONS KNOWN DURING THE DEVELOPMENT OF THIS PROJECT. ALL SCALES, DIMENSIONS AND LOCATIONS SHOWN IN THESE PLANS ARE APPROXIMATE. ACTUAL PHYSICAL FIELD CONDITIONS SHALL PROVIDE THE BASIS FOR THE APPLICATION OF WORK SHOWN IN THE PLANS AND THE CONTRACTOR IS FULLY RESPONSIBLE FOR THE APPLICATION OF ALL WORK SHOWN IN THE PLANS TO PROVIDE A COMPLETE AND ACCEPTABLE INSTALLATION OF ALL THE PROJECTS COMPONENTS. IN THE EVENT THAT ACTUAL FIELD CONDITIONS AFFECT OR PREVENT THE APPLICATIONS OR PROGRESSION OF ANY WORK SHOWN IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER PRIOR TO ANY FURTHER WORK ACTIVITY.

GENERAL CONSTRUCTION:

1. RETURN ALL DISTURBED AREAS TO PRE-CONSTRUCTION CONDITIONS WITHIN 72 HOURS OF THE CONSTRUCTION ACTIVITY. THIS INCLUDES RESTORATION OF SIDEWALK, GRADE, SODDING OF AREA FOR STABILIZATION AND WATERING OF SOD UNTIL IT HAS TAKEN ROOT.
2. ALL REFERENCES IN THE PLANS TO RIGID CONDUIT SHALL BE INSTALLED AS RIGID GALVANIZED STEEL CONDUIT (RGSC). ALL HARDWARE REQUIRED TO OFFSET THE RIGID CONDUIT FROM EXISTING INFRASTRUCTURE SHALL BE OF SIMILAR MATERIALS TO PREVENT CATHODIC REACTIONS.

3. PRIOR TO FINAL INSPECTION OF THE PROJECT, FURNISH THE INSPECTOR AND PINELLAS COUNTY TRAFFIC SIGNAL SHOP THREE COMPLETE SETS OF AS-BUILT PLANS, BORE LOGS AND RESISTANCE READINGS OF BOTH LOOPS AND GROUND RODS. PLANS MUST INCLUDE DEPTH AND OFFSET OF ALL CABLES INSTALLED. IN ADDITION, SUBMIT ONE SET OF COMPLETE AS-BUILT PLANS TO BOTH FDOT DISTRICT SEVEN TRAFFIC OPERATIONS AND FDOT PINELLAS MAINTENANCE. UPON PASSING THE FINAL INSPECTION, SEND A WRITTEN REQUEST TO PINELLAS COUNTY TRAFFIC ENGINEERING TO TRANSFER MAINTENANCE TO THE COUNTY.
4. IF SIDEWALK IS DAMAGED OR REMOVED DURING THE COURSE OF CONSTRUCTION, REPLACE THE ENTIRE SIDEWALK SLAB FROM EXPANSION JOINT TO EXPANSION JOINT WITH NO ADDITIONAL COMPENSATION EXPENSE.
5. EXISTING PULL BOXES DAMAGED DURING CONSTRUCTION ACTIVITIES SHALL BE REPLACED AT YOUR EXPENSE. IF EXISTING PULL BOXES ARE FOUND TO BE ALREADY DAMAGED (EXISTING CONDITION), DOCUMENT THE CONDITION OF THE EXISTING PULL BOX IN THE PRE-CONSTRUCTION PICTURES/VIDEO IN ACCORDANCE WITH THE CONTRACT. REMOVAL OF THE DAMAGED PULL BOX SHALL BE PAID UNDER PAY ITEM 635-2-60 PAY ITEM AS APPROPRIATE FOR THE SIZE OF THE PULL BOX TO BE REPLACED.
6. RIGHT-OF-WAY AS INDICATED ON THE PLANS IS PROVIDED FROM COUNTY TAX MAPS. ENSURE THAT ALL PROJECT INFRASTRUCTURE IS INSTALLED WITHIN THE EXISTING RIGHT-OF-WAY.
7. DIRECT ATTENTION TO THE FACT THAT ALL CONSTRUCTION ACTIVITIES SHALL CONFORM TO PINELLAS COUNTY CODE CHAPTER 58, ENVIRONMENT, ARTICLE XII-NOISE, SECTION 58-441 THROUGH 58-454.
8. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW FOR ALL EQUIPMENT AND MATERIALS FURNISHED AND INSTALLED. THE CONTRACTOR SHALL FURNISH COPIES OF ALL DRAWINGS SCHEDULES AND COMPLETE DESCRIPTIVE AND TECHNICAL DATA ON ALL ITEMS.
9. THE ACCEPTANCE OF ANY SUBMITTED DATA FOR MATERIALS, EQUIPMENT, APPARATUS, DEVICES, ARRANGEMENTS, AND/OR LAYOUTS SHALL NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF PLACING PROPER DIMENSIONS, CAPACITIES, SIZES, QUANTITIES, AND INSTALLATION DETAILS TO EFFICIENTLY PERFORM THE REQUIREMENTS AND INTENT OF THE CONTRACT. SUCH ACCEPTANCE SHALL NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY FOR ERRORS OF ANY SORT ON THE SUBMITTAL FORM.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SIGNAL MAINTENANCE, TIMING, AND OPERATION OF ANY SIGNAL OR SIGNALS ON THE PROJECT STARTING WHEN THE CONTRACTOR RECEIVES THE NOTICE TO PROCEED OR UTILITY RELOCATIONS IMPACT THE OPERATION OF ANY SIGNAL ON THE PROJECT.
11. IF THE CONTRACTOR DECIDES TO BORE ADDITIONAL, LENGTHS OF CONDUIT THE COST TO DO SO SHALL BE AT THE CONTRACTOR'S OWN EXPENSE.
12. SHOULD TRENCHING UNDER DRIVEWAYS BE REQUIRED, THE CONTRACTOR SHALL COORDINATE WORK OPERATIONS AND TEMPORARY ACCESS TO PROPERTY FOR ALL OPEN CUT DRIVEWAYS (UNDER PAVEMENT) WITH BUSINESS OWNERS AND RESIDENTS ONE WEEK PRIOR TO DIGGING.
13. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN AN ALTERNATIVE PEDESTRIAN PATHWAY WITHIN THE CONSTRUCTION AREAS AND ENSURE THOSE ALTERNATIVE PATHWAYS ARE FREE FROM OBSTRUCTIONS AND MEET ADA REQUIREMENTS. THE CONTRACTOR SHALL NOT STOCKPILE ANY MATERIALS ON THE SIDEWALK OR WITHIN THE ALTERNATIVE PEDESTRIAN PATHWAYS. ALTERNATIVE PATHWAYS SHALL BE SIGNED AS PEDESTRIAN DETOURS IN ACCORDANCE WITH FDOT STANDARD PLANS INDEX NO. 102-660.

				BY	DATE	CITY OF TARPON SPRINGS	SIGNALIZATION GENERAL NOTES	<div><div></div><div>American Consulting Engineers of Florida, LLC 2818 Cypress Ridge Blvd, Suite 200 Wesley Chapel, Florida 33544 Phone: (813) 435-2600 Fax: (813) 435-2601 Certificate of Authorization No. 9302 Erik C. Leschak, P.E. No. 63874</div></div>	DATE: 5/14/2021
			DESIGNED						SCALE: 1" = 20'
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REVISIONS	BY	DATE	CHECKED						

UTILITIES:

1. THE LOCATION OF UTILITIES SHOWN IN THE PLANS IS APPROXIMATE. THE EXACT LOCATION SHALL BE DETERMINED, AT YOUR EXPENSE AND IN COORDINATION WITH UNDERGROUND AND OVERHEAD UTILITY OWNERS PRIOR TO DIGGING OR ANY DIRECTIONAL BORE EFFORTS. BE RESPONSIBLE FOR ALL UTILITY NOTIFICATIONS AND COORDINATION WITH UTILITY OWNERS FOR ANY ADJUSTMENTS THAT MAY BE NECESSARY TO RESOLVE ANY CONFLICTS THAT MAY ARISE BETWEEN THE ACTIVITIES AND EXISTING UTILITY LOCATIONS. A REPRESENTATIVE IS TO BE PRESENT WHEN THE UTILITY OWNERS LOCATE THEIR FACILITIES. NOTIFY THE APPROPRIATE UTILITY OWNERS AT LEAST 72-HOURS IN ADVANCE OF FOUNDATION OR POLE SETTING OPERATIONS WHERE CONFLICT WITH OVERHEAD OR UNDERGROUND UTILITIES IS POSSIBLE. WITH APPROVAL FROM THE ENGINEER, FIELD ADJUST THE INSTALLATION TO AVOID CONFLICTS WITH EXISTING UTILITIES. BE RESPONSIBLE FOR ALL DAMAGE TO EXISTING UTILITIES DURING CONSTRUCTION. THE COSTS ASSOCIATED WITH UTILITY COORDINATION AND UTILITY LOCATING SHALL BE INCLUDED IN MOBILIZATION.
2. ANY RELOCATION OF EXISTING OR PROPOSED DUKE ENERGY TRANSMISSION AND DISTRIBUTION FACILITIES THAT ARE REQUIRED TO ACCOMMODATE CONSTRUCTION WILL REQUIRE NOTICE SUFFICIENT TO COVER ANALYSIS, DESIGN, MATERIAL LOGISTICS, MOBILIZATION AND DEMOBILIZATION FOR SAID RELOCATION.
3. PERFORM SUBSURFACE UTILITY ENGINEERING (SUE) AT EACH STRAIN POLE FOUNDATION. THE SUE EFFORT SHALL BE QUALITY LEVEL A. THE COST TO PERFORM THIS ACTIVITY SHALL BE INCLUDED IN THE STRAIN STRUCTURE POLE PAY ITEM.
4. FDOT DOES NOT LOCATE THEIR DRAINAGE STRUCTURES AS PART OF SUNSHINE ONE CALL. VERIFY EXISTING UNDERDRAIN AT STORM STRUCTURES WITH FDOT MAINTENANCE PERSONNEL. MAINTAIN A MINIMUM OF TWO-FOOT CLEARANCE FROM THE UNDERDRAIN FILTER MATERIAL, PARALLEL AND CROSSING.
5. ALL INFRASTRUCTURE INSTALLED WITHIN THE RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH PRACTICES REFERENCED IN THE LATEST FDOT UTILITY ACCOMMODATIONS MANUAL.
6. BE RESPONSIBLE FOR CONTACTING THE POWER UTILITY PROVIDING ELECTRICAL SERVICE TO DETERMINE IF A SERVICE PROCESSING FEE OR SPECIAL IMPACT CONNECTION FEES ARE CHARGED BY THE UTILITY FOR ELECTRICAL SERVICE CONNECTION. BE RESPONSIBLE FOR ALL FEES INCLUDING COST IN AID TO CONSTRUCTION (CIAC) FEES.
7. AS PART OF THE PAYMENT FOR ELECTRICAL POWER SERVICE ASSEMBLY, BE RESPONSIBLE FOR OBTAINING A PERMIT AND INSPECTION OF THE ELECTRICAL SERVICE. ALL PERMIT FEES SHALL BE INCLUDED IN THE POWER SERVICE ASSEMBLY COST. THE METER BASE SHALL INCLUDE A BYPASS HANDLE TO ALLOW CONTINUOUS VOLTAGE UNDER METER CHANGE OUT.
8. ADJUST THE LOCATION OF PROPOSED FACILITIES TO AVOID CONFLICT WITH EXISTING UTILITIES UNLESS THE CONFLICT HAS BEEN IDENTIFIED AND ADDRESSED THOUGH A UTILITY RELOCATION SCHEDULE.
9. ALL UTILITIES IDENTIFIED IN A UTILITY RELOCATION SCHEDULE INTERFERING WITH CONSTRUCTION WILL BE REMOVED, RELOCATED, OR ADJUSTED BY THEIR RESPECTIVE OWNER AT THEIR EXPENSE. COORDINATE WITH THE UTILITY OWNERS UPON AWARD OF THE CONTRACT TO ENSURE UTILITY ADJUSTMENTS/RELOCATIONS ARE SCHEDULED OR COMPLETE. COORDINATE WITH THE UTILITY OWNERS THROUGHOUT THE DURATION OF THE PROJECT AND ENSURE ALL POTENTIAL CONFLICTS ARE ADDRESSED SO AS NOT TO DELAY THE PROJECT.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITY NOTIFICATIONS AND COORDINATION WITH UTILITY OWNERS FOR ANY ADJUSTMENTS THAT MAY ME NECESSARY TO RESOLVE ANY CONFLICTS THAT MAY ARISE BETWEEN THE CONTRACTOR'S ACTIVITIES AND EXISTING UTILITY LOCATIONS. WITH APPROVAL FROM THE ENGINEER, THE CONTRACTOR SHALL FIELD ADJUST THE DESIGN AND INSTALLATION TO AVOID CONFLICTS WITH EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO EXISTING UTILITIES CAUSED BY THE CONTRACTOR DURING CONSTRUCTION. THE COST ASSOCIATED WITH UTILITY COORDINATION OR UTILITY LOCATING SHALL BE PAID FOR UNDER THE UNSPECIFIED WORK ALLOWANCE.
11. AT LOCATIONS WHERE UNDERGROUND UTILITIES ARE IN CLOSE PROXIMITY TO THE POLE OR CONDUIT RUNS, AS DETERMINED BY THE ENGINEER, THE CONTRACTOR SHALL HAND DIG THE FIRST 48 INCHES OF THE HOLE FOR THE POLE OR CONDUIT RUN. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS WORK.

12. THE CONTRACTOR SHALL MEET ALL APPLICABLE OSHA AND NESC REQUIREMENTS IN ORDER TO MAINTAIN THE REQUIRED CLEARANCE FOR ALL EXISTING AND RELOCATED OVERHEAD POWER LINES WITHIN CLOSE PROXIMITY TO POLE AND STRUCTURE INSTALLATIONS. THE TYPE OF EQUIPMENT USED WHEN WORKING UNDER OVERHEAD UTILITIES SHALL MEET THE FOLLOWING REQUIREMENTS:
- A. OVERHEAD LINES SHALL STAY IN PLACE BOTH VERTICALLY AND HORIZONTALLY;
- B. ANY COST ASSOCIATED WITH THE TYPE OF EQUIPMENT AND COORDINATION REQUIRED FOR THE INSTALLATION SHALL BE INCLUDED IN THE RELATED POLE OR STRUCTURE PAY ITEM;
- C. CONTRACTOR SHALL WORK WITH THE POWER UTILITY TO DE-ENERGIZE LINES WHEN NECESSARY.
13. ALL INFRASTRUCTURE INSTALLED WITHIN THE RIGHT OF WAY SHALL BE IN ACCORDANCE WITH PRACTICES REFERENCED IN THE STATE OF FLORIDA UTILITY ACCOMMODATIONS MANUAL.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE POWER UTILITY PROVIDING ELECTRICAL SERVICE TO DETERMINE IF A SERVICE PROCESSING FEE OR SPECIAL IMPACT CONNECTION FEES ARE CHARGED BY THE THE UTILITY FOR ELECTRIC SERVICE CONNECTION.
15. WHEN DOING WORK OR TASK UNDER OR NEAR ANY POWER TRANSMISSION AND/OR DISTRIBUTION FACILITIES, ALL APPLICABLE OSHA AND NESC RULES SHALL BE FOLLOWED; ALL EQUIPMENT SHALL BE PROPERLY GROUNDED.
16. THE CONTRACTOR IS PROHIBITED FROM STOCKPILING MATERIALS ( SOILS, FILL DIRT, GRAVEL, ETC. ) UNDER OR NEAR ENERGIZED OVERHEAD POWER LINES.

DIRECTIONAL DRILLING

1. NO "DRILLING CLAY" OR "DRILLING POLYMER" WILL BE DUMPED, BURIED, OR DEPOSITED AS A WASTE PRODUCT WITH IN ANY ROAD RIGHT OF WAY.
2. NO "DRILLING CLAY" OR "DRILLING POLYMER" WILL BE INTRODUCED INTO WATERS OF THE COUNTY, WATERS OF THE STATE, AND WATERS OF THE NATION AS PART OF THE DIRECTIONAL DRILLING THAT THIS PROJECT PROPOSES.
3. ALL DAMAGE TO PINELLAS COUNTY PUBLIC WORKS INFRASTRUCTURE RESULTING FROM THE PROPOSED DIRECTIONAL DRILLING MUST BE REPAIRED BY THE CONTRACTOR IMMEDIATELY FOLLOWING THE DAMAGING EVENT AT THE CONTRACTORS EXPENSE.
4. ANY STORM WATER STRUCTURE (CURB INLET, UNDER-DRAIN, DROP BOX, JUNCTION BOX, CONFLICT BOX) THAT HAS BEEN DAMAGED BY THE DIRECTIONAL DRILLING ACTIVITY MUST BE REPLACED BY THE CONTRACTOR IMMEDIATELY AFTER THE DAMAGING EVENT AT THE CONTRACTORS EXPENSE. ALL DRILLING CLAY OR DRILLING POLYMER THAT HAS BEEN INTRODUCED INTO THE PINELLAS COUNTY OR STATE STORM WATER INFRASTRUCTURE MUST BE REMOVED IMMEDIATELY BY THE CONTRACTOR AT THEIR EXPENSE. REPAIR PROCEDURES ARE TO BE SUBMITTED AND APPROVED BY THE ENGINEER PRIOR TO REPAIR BEING COMPLETED.
5. THE CONTRACTOR SHALL PROVIDE A DETAILED PLAN FOR THE DISPOSAL OF ALL DRILLING FLUIDS, SILTS, CLAYS AND SOILS.

PAY ITEM NOTES:

102-0100:  
SHALL INCLUDE THE COST FOR ALL TRAFFIC CONTROL RELATED PAY ITEMS INCLUDING THOSE REQUIRED BY THE FDOT STANDARD PLANS INDEX 102 SERIES. THIS PAY ITEM SHALL ALSO INCLUDE ALL COSTS TO MAINTAIN ALL TRAFFIC SIGNALIZATION INCLUDING VEHICLE ACTUATION AND PEDESTRIAN SIGNAL OPERATIONS, UNLESS OTHERWISE SHOWN IN THE PLANS. ALL ACTUATED PHASES SHALL BE MAINTAINED DURING THE PROJECT INCLUDING WHEN LOOPS ARE DAMAGED. THE USE OF MICROWAVE OR VIDEO DETECTORS OR ENGINEER APPROVED DETECTION WITHIN 48-HOURS OF NOTICE SHALL BE REQUIRED WHEN DETECTION HAS BEEN AFFECTED BY CONSTRUCTION.

630-2-11, 630-2-12,  
NO TEST BORINGS WERE MADE WHERE CONDUIT RUNS ARE TO BE INSTALLED. ALL CONDUIT RUNS SHOWN ON THE PLANS ARE SCHEMATIC AND FIELD ADJUSTMENTS MAY BE NECESSARY. TWO SEPARATE UNDERGROUND CONDUIT RUNS LOCATED 180 DEGREES APART ARE REQUIRED FOR ALL SIGNAL STRAIN POLES AND MAST ARMS. THERE SHALL BE MINIMUM OF THREE RUNS BETWEEN THE LAST LOW VOLTAGE (LOOPS) PULL BOX LOCATED NEAR THE CONTROLLER CABINET AND THE CONTROLLER CABINET. CONDUITS INSTALLED WITH THE DIRECTIONAL BORE METHOD SHALL BE HDPE, UNLESS OTHERWISE NOTED IN THE PLANS.

630-2-14:  
ALL ABOVE GROUND CONDUIT SHALL BE RIGID GALVANIZED STEEL. AND SHALL BE TWO-INCH DIAMETER UNLESS OTHERWISE INDICATED.

632-7-1:  
EACH PHASE/MOVEMENT SHALL BE WIRED FROM THE SIGNAL DISPLAY TO THE CONTROLLER AS A SEPARATE PHASE/MOVEMENT. THIS INCLUDES THE LEFT TURN MOVEMENT WHICH SHALL HAVE CONDUCTORS AVAILABLE FOR EITHER PROTECTED OR PERMISSIVE MOVEMENTS. THE CONTRACTOR SHALL VERIFY COLOR CODES FOR SIGNAL CABLE WITH THE PINELLAS COUNTY TRAFFIC ENGINEER BEFORE ORDERING, AND WIRE THE SIGNAL IN ACCORDANCE WITH THAT COLOR CODE. THERE SHALL BE ONE NEUTRAL PER APPROACH.

646-1-11  
ALL ALUMINUM SIGNAL PEDESTAL POLES AND POSTS SHALL BE MOUNTED ON TRANSFORMER BASES AND SHALL BE GROUNDED AT THE TRANSFORMER BASE.

650-1-14 & 650-1-19:  
ALL TRAFFIC SIGNALS SHALL INCLUDE LED INDICATORS, BACKPLATES WITH YELLOW RETRO-REFLECTIVE BORDER AND VISORS. ALL SIGNAL HEADS SHALL BE LED. HARDWIRE NEW SIGNAL HEADS AND REMOVE JONES PLUGS.

653-1-11& 653-1-12:  
PEDESTRIAN SIGNALS SHALL BE COUNTDOWN WITH OVERLAY/FILLED HAND AND PEDESTRIAN SYMBOLS.

660-2-101:  
THE CONTRACTOR SHALL NOTIFY THE CITY OF TARPON SPRINGS AND F.D.O.T. DISTRICT SEVEN TRAFFIC OPERATIONS AT LEAST 48 HOURS IN ADVANCE OF LOOP CUTTING. ALL STOP BAR LOOPS FOR MOVEMENTS 2 & 6 ARE 6'X20' LOCATED 2' BEHIND STOP BAR. ALL STOP BAR LOOPS FOR MOVEMENTS 1,3,4,5,7, & 8 ARE 6' X 25' LOCATED 2' IN FRONT OF STOP BAR SHOWN IN THESE PLANS.

663-1-111& 663-1-112:  
INCLUDES ALL LABOR, MATERIAL AND HARDWARE TO FURNISH AND INSTALL THE SIGNAL PRIORITY PRE-EMPTION SYSTEM TO MEET EITHER THE CITY OF TARPON SPRINGS OR PINELLAS COUNTY STANDARDS. INCLUDES COORDINATION WITH THE AGENCIES FOR THEIR SPECIFICATION PRIOR TO INSTALLATION. SHOP DRAWING CUT SHEETS SHALL BE SUBMITTED FOR APPROVAL.

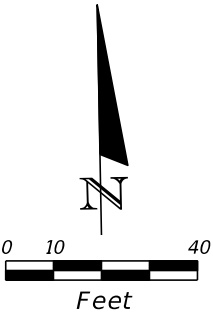
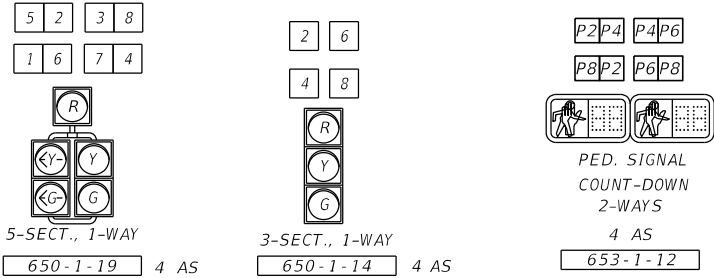
665-1-11:  
PEDESTRIAN DETECTOR SHALL HAVE A VISUAL CONFIRMATION INDICATOR.

670-5-400  
INCLUDES ALL LABOR, MATERIAL AND HARDWARE TO FURNISH AND INSTALL THE OPTICAL EMERGENCY VEHICLE PRE-EMPTION CABINET EQUIPMENT AND FURNISH AND INSTALL ALL NECESSARY CABINET EQUIPMENT AND LABOR TO OPERATE THE TRAFFIC SIGNAL OPERATING PLAN (SOP 10).

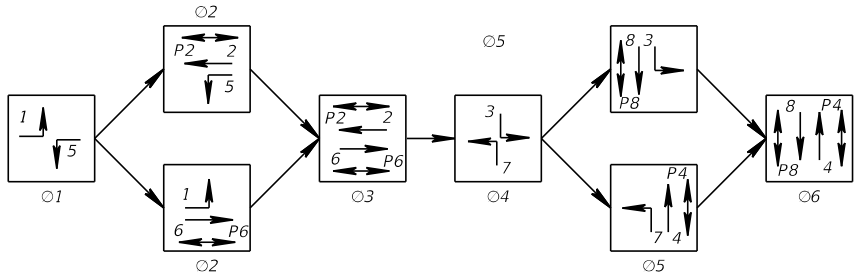
700-5-22:  
INCLUDES ALL LABOR, MATERIAL & HARDWARE TO ROUTE NEW ELECTRIC CABLE FROM SIGNS INTO SIGNAL CABINET.

				BY	DATE	CITY OF TARPON SPRINGS	SIGNALIZATION GENERAL NOTES	<div><div></div><div>American Consulting Engineers of Florida, LLC 2818 Cypress Ridge Blvd, Suite 200 Wesley Chapel, Florida 33544 Phone: (813) 435-2600 Fax: (813) 435-2601 Certificate of Authorization No. 9302 Erik C. Leschak, P.E. No. 63874</div></div>	DATE: 5/14/2021
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			DRAWN						
REVISIONS	BY	DATE	CHECKED						SHEET: 30 OF 39

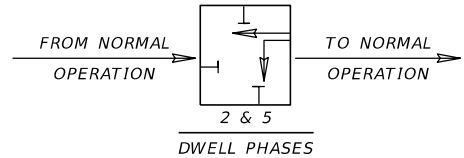
- NOTES:
1. WHEN THE SIGNAL IS IN FLASHING MODE: MOVEMENTS  
2&6 SHALL FLASH YELLOW. ALL OTHER VEHICLE MOVEMENTS SHALL FLASH RED.
  2. SPEED LIMITS:  
EAST TARPON AVE. 35 MPH  
SHOPPING CTR. 35 MPH
  3. STREET NAME SIGNS A AND B ARE TO BE INTERNALLY ILLUMINATED



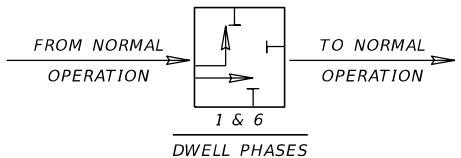
SIGNAL OPERATION PLAN 10



EMERGENCY P.O.P. #3



EMERGENCY P.O.P. #4

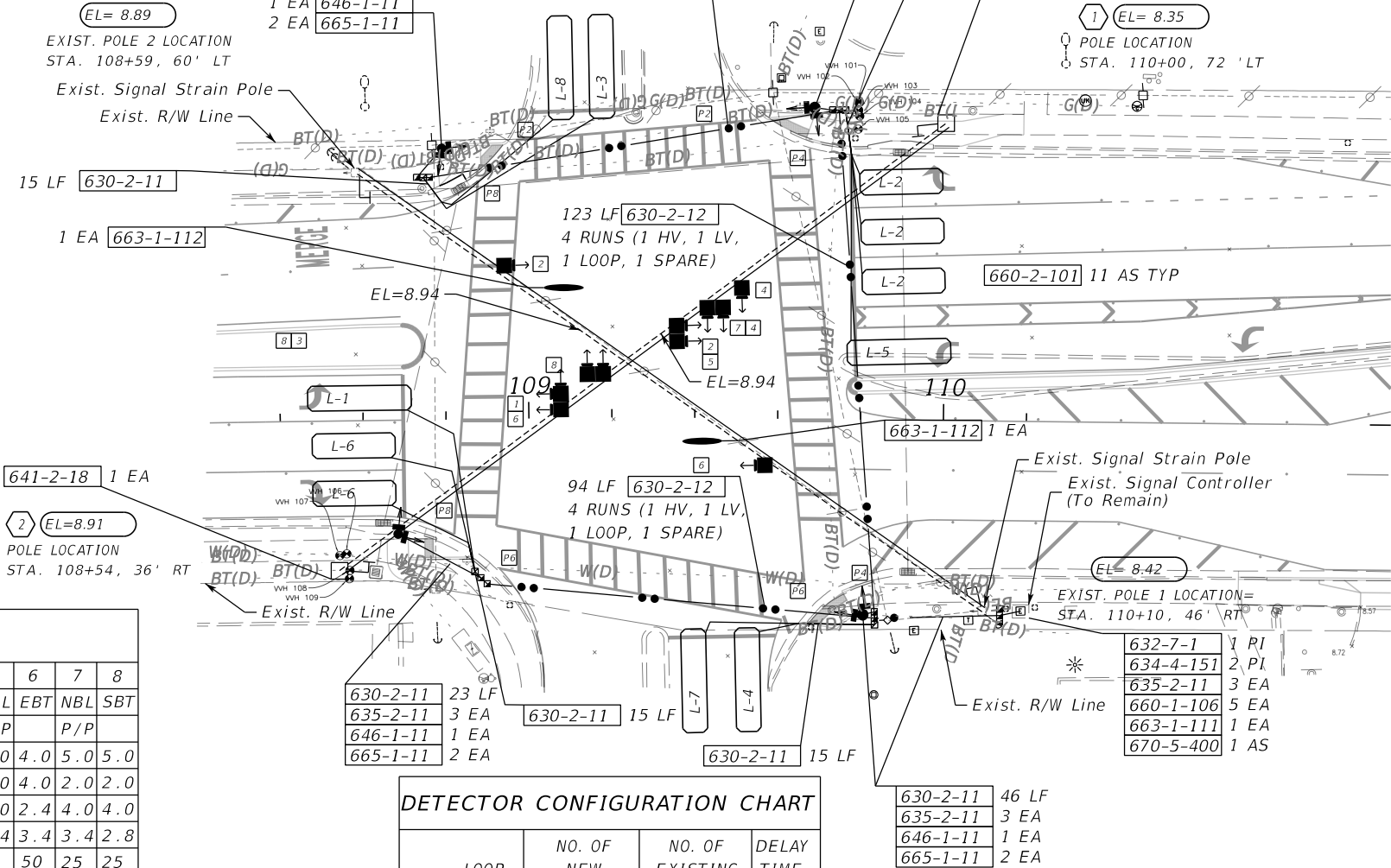


EMERGENCY VEHICLE PREEMPTION		
PREEMPTION TIMING PLAN (POP #)	3(WB)	4(EB)
PRIORITY	6	6
DELAY BEFORE PREEMPTION (SEC)	0	0
MINIMUM GREEN BEFORE PREEMPTION (SEC) (*)	15	15
LOCK CALL	OFF	OFF
MAXIMUM PRESENCE (SEC)	120	120
YELLOW CLEARANCE (SEC) (**)	**	**
RED CLEARANCE (SEC) (**)	**	**
DWELL PHASE(S)	2&5	1&6
MINIMUM DWELL (SEC)	15	15
YELLOW CLEARANCE (SEC) (**)	**	**
RED CLEARANCE (SEC) (**)	**	**
EXIT PHASES	2&6	2&6

(\*) ENTRY INTO PRE-EMPTION SHALL NOT VIOLATE MINIMUM GREEN OR PEDESTRIAN CLEARANCE TIME.  
(\*\*) YELLOW AND ALL RED INTERVALS DURING PREEMPTION SHALL BE THE SAME VALUES USED DURING NORMAL CONTROLLER OPERATIONS.

CONTROLLER TIMINGS								
MOVEMENT NUMBER	1	2	3	4	5	6	7	8
DIRECTION	EBL	WBT	SBL	NBT	WBL	EBT	NBL	SBT
TURN TYPE	P/P		P/P		P/P		P/P	
MINIMUM GREEN	5.0	20	5.0	5.0	5.0	4.0	5.0	5.0
EXTENSION	2.0	4.0	2.0	2.0	2.0	4.0	2.0	2.0
YELLOW CLEARANCE	4.0	4.0	4.0	4.0	4.0	2.4	4.0	4.0
ALL RED	3.4	2.4	3.4	2.8	3.4	3.4	3.4	2.8
MAXIMUM GREEN 1	25	50	25	25	25	50	25	25
MAXIMUM GREEN 2								
MAX LIMIT								
ADJUST BY								
WALK		7.0		7.0		7.0		7.0
FLASHING DON'T WALK		20		30		21		24
DETECTOR MEMORY		ON				ON		
CNA(1)		ON				ON		
DUAL ENTRY		MIN				MIN		
RECALL								

TIMINGS ARE INITIAL AND MAY BE ADJUSTED BY ENGINEER  
COORDINATION TIMINGS TO BE SUPPLIED BY PINELLAS CO TRAFFIC MANAGEMENT



DETECTOR CONFIGURATION CHART			
LOOP	NO. OF NEW DETECTORS	NO. OF EXISTING DETECTORS	DELAY TIME (SEC)
L - 1	1		
L - 2	1	1	
L - 3	1		
L - 4		1	
L - 5	1		
L - 6		1	
L - 7	1		
L - 8		1	

DELAY TIME IS INITIAL AND MAY REQUIRE FIELD ADJUSTING AS DIRECTED BY PROJECT ENGINEER.

REMOVAL ITEMS:

632-7-6	1 PI
634-4-600	1 PI
646-1-60	4 EA
650-1-60	8 AS

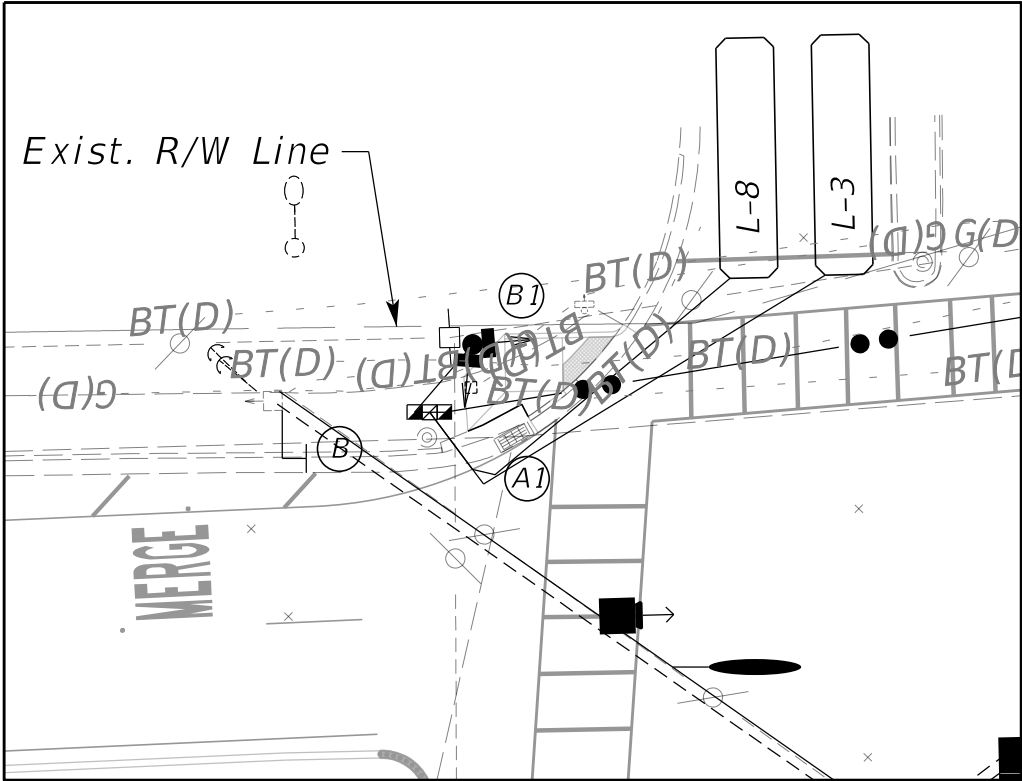
	BY	DATE
	DESIGNED	GZ 01/20/21
	DRAWN	JL 01/20/21
REVISIONS	BY	DATE
	CHECKED	GZ 01/21/21

CITY OF TARPON SPRINGS

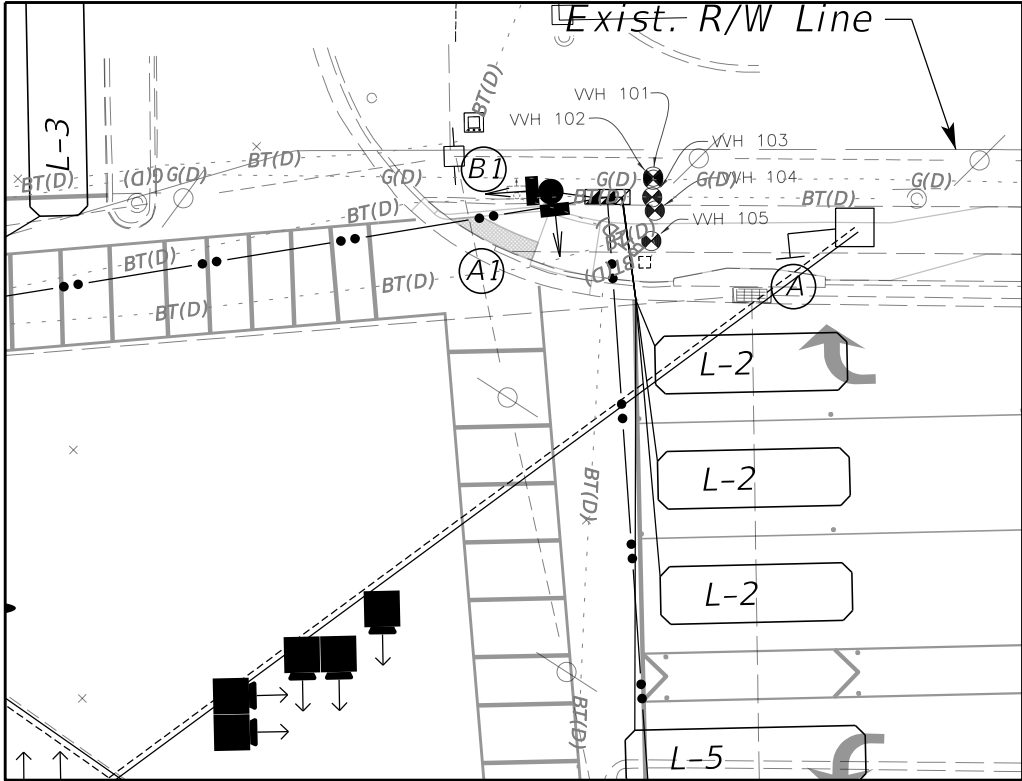
SIGNALIZATION PLAN (1)

**American**  
Consulting Engineers of Florida, LLC  
2818 Cypress Ridge Blvd, Suite 200  
Wesley Chapel, Florida 33544  
Phone: (813) 435-2600 Fax: (813) 435-2601  
Gordon D. Ziecina, P.E. No. 33770

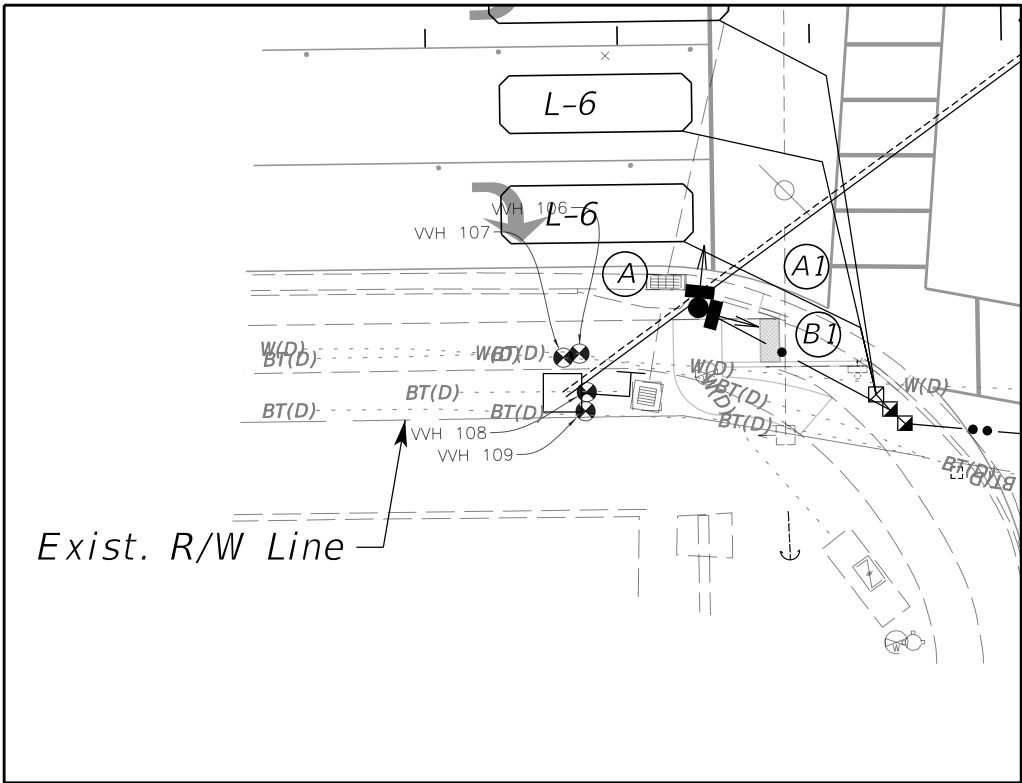
DATE:	5/14/2021
SCALE:	1" = 40'
SHEET:	31 of 39



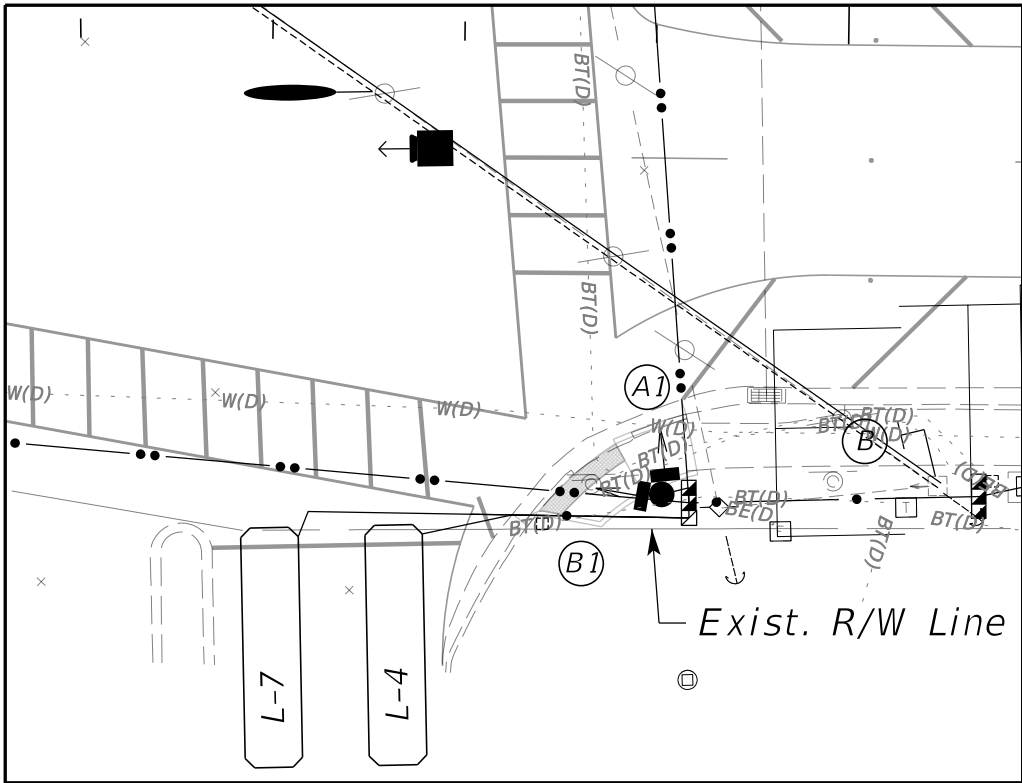
NW QUADRANT



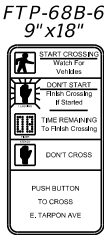
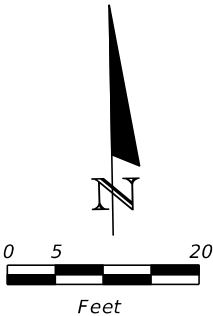
NE QUADRANT



SW QUADRANT



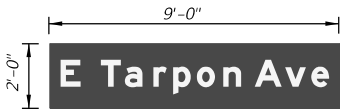
SE QUADRANT



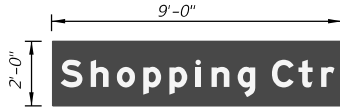
(A1)



(B1)



(A)



(B)

700-5-22 4 EA

TWO-SIDED FREE-SWINGING MOUNTED ON THE SIGNAL POLE ON BRACKET ARM (ONE BRACKET ARM ON EACH SIGNAL POLE) COST OF BRACKET ARMS (4) AND RELEVANT HARDWARE INCLUDED UNDER PAY ITEM 700-5-22 (REFER TO FDOT INDEX 700-050)

TEST HOLE NAME.	STA. APPROX.	OFFSET	UTILITY	DEPTH OF COVER
VVH101	109+78.79	76.78 LT	2" BURIED TELEPHONE	2.51'
VVH102	109+78.80	76.45 LT	GAS MAIN (ELECTRONIC DEPTH ONLY)(SIZE NFV)	5.00'
VVH103	109+78.72	74.63 LT	4" PVC BURIED TELEPHONE (xUNK)	4.32'
VVH104	109+79.01	73.23 LT	SOUTH EDGE OF BURIED TELEPHONE DUCT	4.34'
VVH105	109+78.68	70.07 LT	CONCRETE CAP	2.72'
VVH106	108+55.64	32.04 RT	2" PVC TRAFFIC	2.55'
VVH107	108+53.96	32.44 RT	WATER MAIN (SIZE NFV)	4.80'
VVH108	108+56.34	36.05 RT	4" PVC BURIED TELEPHONE	2.25'
VVH109	108+56.20	38.05 RT	2" PVC BURIED TELEPHONE (X2)	2.39'

			BY	DATE
		DESIGNED	GZ	01/20/21
		DRAWN	JL	01/20/21
REVISIONS	BY	DATE	CHECKED	GZ 01/21/21

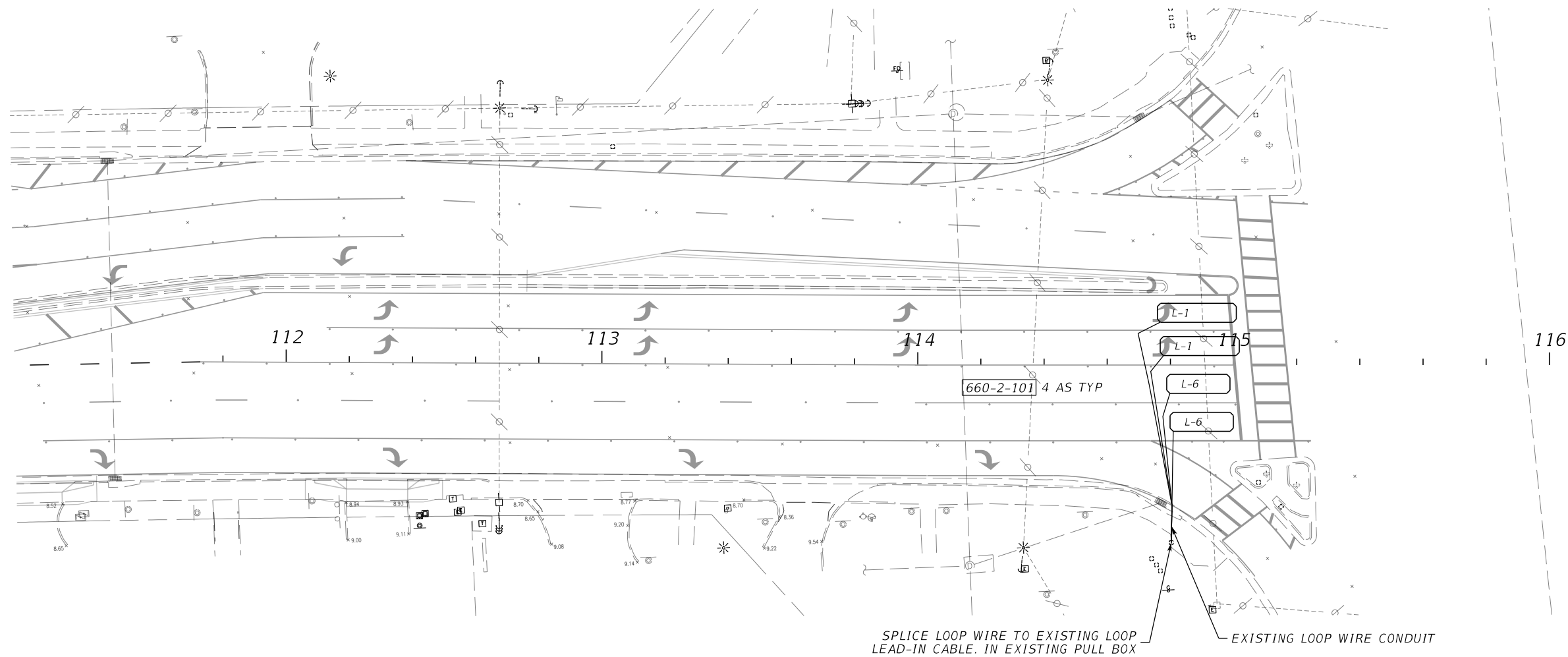
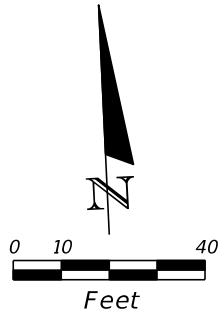
CITY OF TARPON SPRINGS

SIGNALIZATION PLAN (2)

**American**  
Consulting Engineers of Florida, LLC  
2818 Cypress Ridge Blvd, Suite 200  
Wesley Chapel, Florida 33544  
Phone: (813) 435-2600 Fax: (813) 435-2601  
Gordon D. Ziecina, P.E. No. 33770

DATE: 5/14/2021  
SCALE: 1" = 20'  
SHEET: 32 OF 39

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				BY	DATE
			DESIGNED	GZ	01/20/21
			DRAWN	JL	01/20/21
REVISIONS	BY	DATE	CHECKED	GZ	01/21/21

CITY OF TARPON SPRINGS

SIGNALIZATION PLAN (3)



**American**  
Consulting Engineers of Florida, LLC  
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Wesley Chapel, Florida 33544  
Phone: (813) 435-2600 Fax: (813) 435-2601  
Gordon D. Ziecina, P.E. No. 33770

DATE: 5/14/2021

SCALE: 1" = 40'

SHEET: 33 of 39

[illegible][illegible][illegible][illegible]

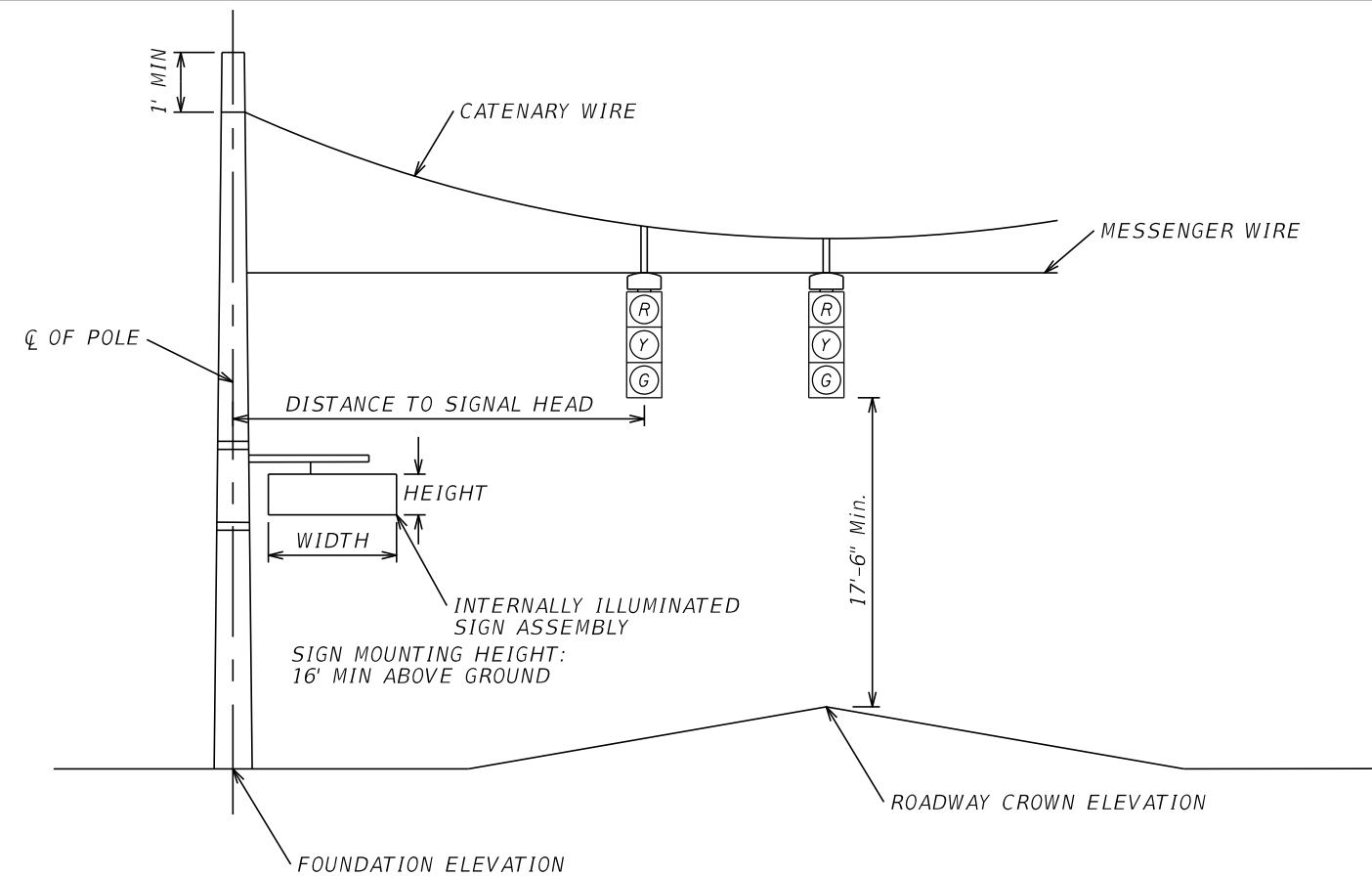
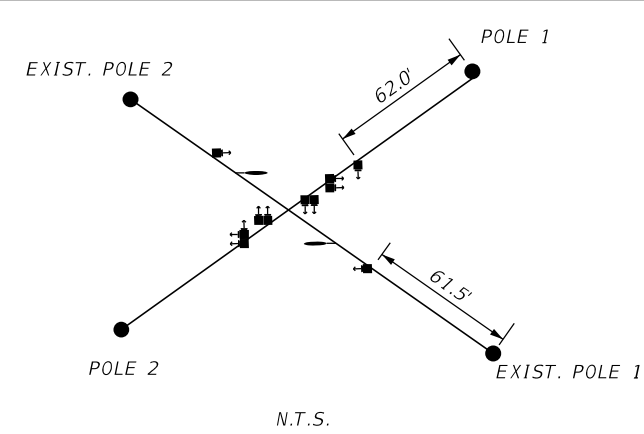
				BY	DATE	<i>CITY OF TARPON SP</i>
			DESIGNED	GZ	01/20/21	
			DRAWN	JL	01/20/21	
REVISIONS	BY	DATE	CHECKED	GZ	01/21/21	

[illegible][illegible]

SIGN NAME		GS-2		QTY	1	SIGN NUMBER	STATION(S)
PANEL		BORDER				none	
WIDTH		8'-0"		WIDTH	0.75"		
HEIGHT		3'-6"		RADII	3"		
LEGEND		White		COLOR	White		
COLOR		Green					
SYMBOL(S)	ANGLE	X	Y	WID	HT		
AR_Type D	90	7.6	31.8	6	9		
AR_Type D	270	79.5	18	6	9		
AR_Type D	270	79.5	4.3	6	9		
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE	AVERAGE LENGTH			
NO. OF LIGHT FIXTURES		FIXTURE SPACING		PHOTOMETRIC CURVE		WATT	VOLTAGE

[illegible]

RINGS	GUIDE	DESIGN WORKSHEET	 <b>American</b> Consulting Engineers of Florida, LLC 2818 Cypress Ridge Blvd, Suite 200 Wesley Chapel, Florida 33544 Phone: (813) 435-2600 Fax: (813) 435-2601 Gordon D. Ziecing, P.E. No. 33770	DATE: 5/14/2021
				SCALE: NTS
				SHEET: 34 of 39



LOC. NO.	SHEET NO.	STRUCT ID NO.	TOP OF GROUND ELEVATION AT POLE LOCATION	FOUNDATION ELEVATION	CROWN ELEVATION	CONCRETE OR STEEL	SPAN	SPAN LENGTH (FT)	BACK PLATES Y/N	SIGNAL V/H	PEDESTRIAN SIGNAL Y/N	SIGNAL DATA												SIGN DATA		
												DISTANCE FROM POLE												DISTANCE FROM POLE(*)/HEIGHT AND WIDTH (*ENTER "P" IF ATTACHED TO POLE)		
												1	SEC.	2	SEC.	3	SEC.	4	SEC.	5	SEC.	6	SEC.	DIST.	HEIGHT	WIDTH
1	29	POLE 1	8.91	8.91	8.94	CONCRETE	1	182.0	Y	V	N	62.0	3	70.0	5	84.0	5	105.0	5	113.0*	3	113.0*	5	P	2'-0"	9'-0"
1	29	POLE 2	8.35	8.35	8.94	CONCRETE	1																	P	2'-0"	9'-0"
1	29	EXIST. POLE 1	8.89	8.89	8.94	CONCRETE	2	184.5	Y	V	N	61.5	3	72.0	OD	134.5	OD	144.0	3					P	2'-0"	9'-0"
1	29	EXIST. POLE 2	8.42	8.42	8.94	CONCRETE	2																	P	2'-0"	9'-0"

\*SIGNAL HEADS BRACKET MOUNTED

BY

DATE

DESIGNED

GZ

01/20/21

DRAWN

JL

01/20/21

REVISIONS

BY

DATE

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01/21/21

CITY OF TARPON SPRINGS

STRAIN POLE TABULATION SHEET

American

Consulting Engineers of Florida, LLC

2818 Cypress Ridge Blvd, Suite 200  
Wesley Chapel, Florida 33544  
Phone: (813) 435-2600 Fax: (813) 435-2601  
Gordon D. Ziecina, P.E. No. 33770

DATE: 5/14/2021

SCALE: 1"=20'

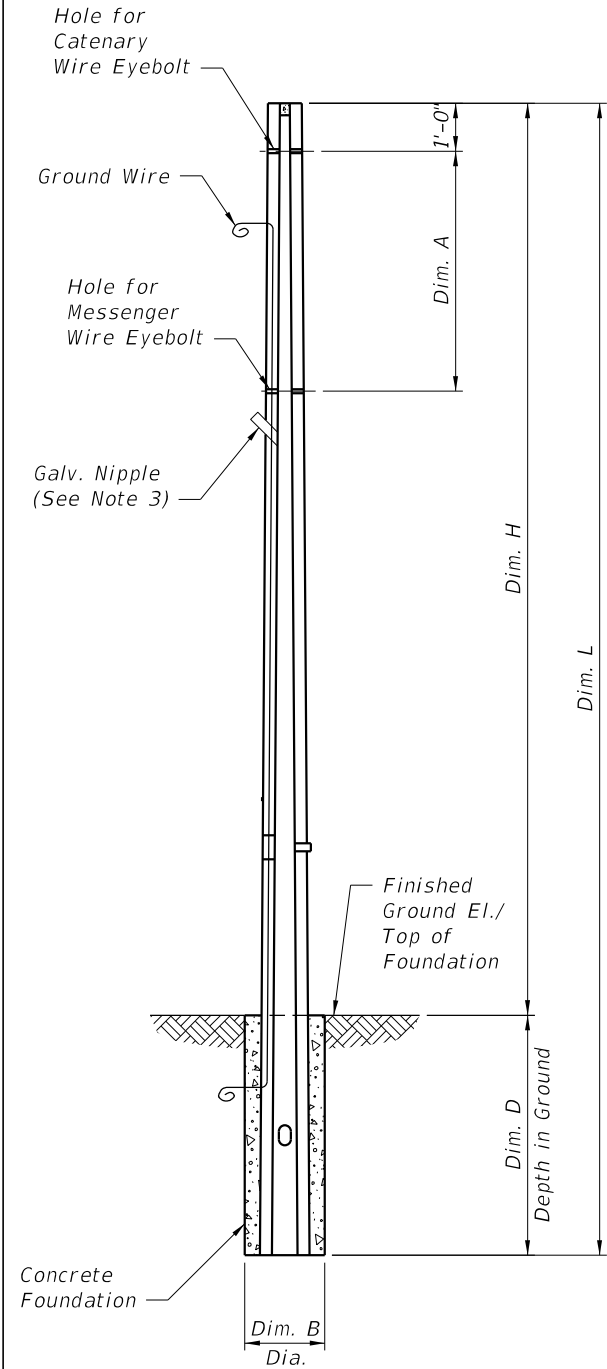
SHEET: 35 OF 39

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CONCRETE POLE ELEVATION  
N.T.S.

POLE SCHEDULE												
POLE NO.	POLE TYPE	FINISHED GROUND EL. AT POLE	PAVEMENT EL. UNDER CRITICAL HEAD	DIM. A (FT.)	DIM. B (FT.)	DIM. D (FT.)	DIM. H (FT.)	DIM. L (FT.)	CATENARY WIRE DIA. (IN.)/ GRADE	MESSENGER WIRE DIA. (IN.)/ GRADE	FOUNDATION DESIGN ASSUMPTIONS	
											EFFECTIVE SOIL UNIT WT. (PCF)	ANGLE OF INTERNAL FRICTION (DEG.)
POLE 1	VIII	8.35	8.94	10.1	3.5	14.3	33.7	48.0	3/8	1/2	43	29
POLE 2	VIII	8.91		10.1	3.5	12.8	33.2	46.0				

POLE SCHEDULE NOTE: Blank "DIM. A" indicates a single point attachment.

NOTES:

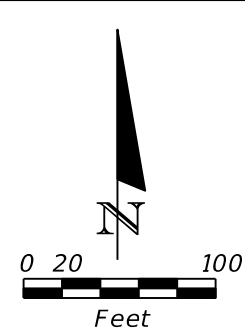
- For orientation and details of conduits, grounding wires, apertures, etc. on Special Design Poles, match Pole Type VIII on Standard Plans Index 641-010.
- Design Wind Speed: 140 mph.
- A properly sized Service Head (Weather Head), shall be installed and fastened securely on to the standard pipe for each pole location. Service entrance installation per Standard Plans Index 634-001.

				BY	DATE	CITY OF TARPON SPRINGS	STRAIN POLE SCHEDULE	<div><div></div><div>American Consulting Engineers of Florida, LLC 2818 Cypress Ridge Blvd, Suite 200 Wesley Chapel, Florida 33544 Phone: (813) 435-2600 Fax: (813) 435-2601 RRichard A. Hunter, P.E. No. 50601</div></div>	DATE: 5/14/2021
			DESIGNED						SCALE: NTS
			DRAWN						
REVISIONS	BY	DATE	CHECKED						SHEET: 36 of 39



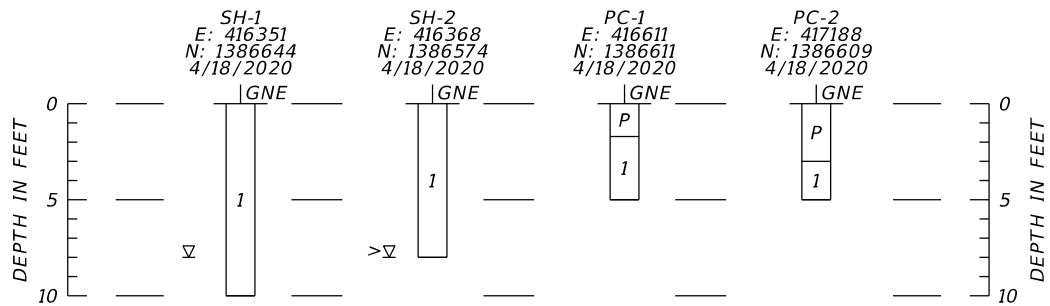


BORING LOCATION PLAN

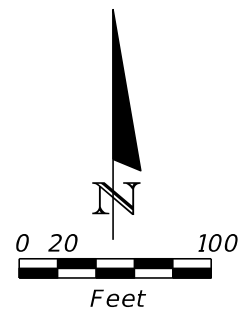


LEGEND

1. PALE BROWN TO DARK BROWN SAND TO SAND WITH SILT, OCCASIONALLY WITH LIMEROCK FRAGMENTS (A-3)
- P. PAVEMENT AND BASE MATERIAL
- A-3 AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.
- ∇ ESTIMATED SEASONAL HIGH GROUNDWATER TABLE
- >∇ ESTIMATED SEASONAL HIGH GROUNDWATER TABLE IS DEEPER THAN DEPTH SHOWN
- GNE GROUNDWATER NOT ENCOUNTERED
- E: EASTING COORDINATE REFERENCED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, FLORIDA WEST ZONE, N.A.D. 83.
- N: NORTHING COORDINATE REFERENCED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, FLORIDA WEST ZONE, N.A.D. 83.
- NOTE: THE BORINGS WERE LOCATED IN THE FIELD USING A HAND-HELD GARMIN NON SURVEY GRADE GLOBAL POSITIONING SYSTEM (GPS) DEVICE WITH A REPORTED ACCURACY OF +/- 10 FEET.



REVISIONS				KEVIN H. SCOTT, P.E. P.E. LICENSE NUMBER 65514 TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637	CITY OF TARPON SPRINGS			BORING LOCATION PLAN & ROADWAY SOIL PROFILES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	CITY PROJECT NO.		
					CR 582	PINELLAS	TRI804		
							37 of 39		



NOTES:

1. THE BORING LOCATIONS WERE RECORDED IN THE FIELD BY TIERRA, INC. USING GARMIN ETREX HAND-HELD GPS EQUIPMENT WITH A MANUFACTURE'S REPORTED ACCURACY OF  $\pm 10$  FEET.
2. BASED ON A REVIEW OF THE "POTENTIOMETRIC SURFACE OF THE UPPER FLORIDAN AQUIFER IN FLORIDA" MAPS PUBLISHED BY THE USGS; THE POTENTIOMETRIC SURFACE ELEVATION OF THE UPPER FLORIDAN AQUIFER AT THE SITE RANGES FROM APPROXIMATELY +0 TO +10 FEET NGVD 29. POTENTIOMETRIC FLOW WAS NOT APPARENT WITHIN THE SPT BORINGS.
3. TEMPORARY CASING METHODS FOR SHAFT INSTALLATION BEYOND WHAT IS REQUIRED IN THE FDOT SPECIFICATIONS MAY BE REQUIRED IN ORDER TO PREVENT THE COLLAPSE OF THE SANDY SOILS AND/OR GROUNDWATER INTRUSION DURING THE SHAFT CONSTRUCTION.
4. WEATHERED LIMESTONE WAS ENCOUNTERED WITHIN BORING B-SIG-2 AT AN APPROXIMATE DEPTH 28½ FEET BELOW GRADE. DRILLING AND EXCAVATION INTO AND/OR THROUGH THIS MATERIAL WILL BE DIFFICULT AND MAY REQUIRE NON-CONVENTIONAL CONSTRUCTION TECHNIQUES AND THE MOBILIZATION OF SPECIALIZED EQUIPMENT. THE CONTRACTOR SHALL ANTICIPATE VARIATIONS IN THE DEPTH AND HARDNESS OF THIS MATERIAL.

*LEGEND*



GRAY TO BROWN SAND TO SAND WITH SILT (SP/SP-SM)



GRAY SILTY SAND (SM)



WEATHERED LIMESTONE

SP UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487)  
GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW.

N      NUMBERS TO THE LEFT OF BORINGS INDICATE  
SPT VALUE FOR 12 INCHES OF PENETRATION  
(UNLESS OTHERWISE NOTED).

50/4 NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION

HA HAND AUGERED TO VERIFY UTILITY CLEARANCE

WH SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT  
OF ROD AND HAMMER

 APPROXIMATE SPT BORING LOCATION

GROUNDWATER LEVEL ENCOUNTERED DURING  
FIELD EXPLORATIONS

100 LOSS OF CIRCULATION OF DRILLING FLUID (%)

CASING

EASTING EASTING COORDINATE REFERENCED TO THE FLORIDA  
STATE PLANE COORDINATE SYSTEM, FLORIDA WEST  
ZONE, N.A.D. 83.

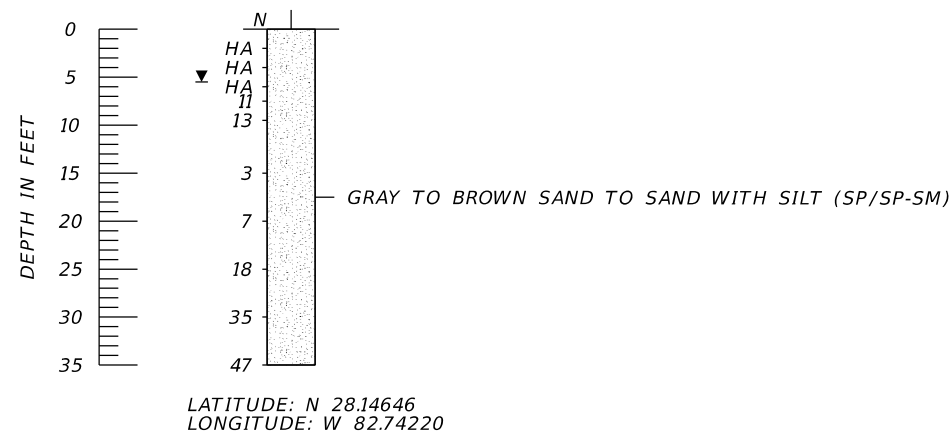
NORTHING NORTHING COORDINATE REFERENCED TO THE FLORIDA  
STATE PLANE COORDINATE SYSTEM, FLORIDA WEST  
ZONE, N.A.D. 83.

*BORING LOCATION PLAN*

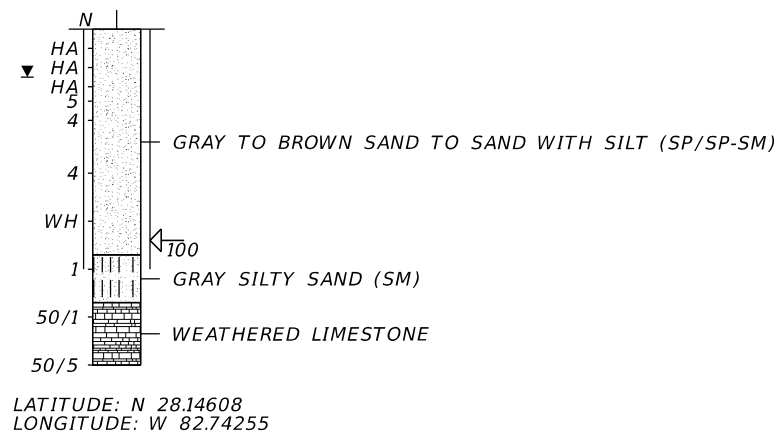
RECOMMENDED SOIL PARAMETERS							
BORING NUMBER	DEPTH (FT)	N	SOIL CLASSIFICATION	SOIL UNIT WEIGHT (PCF)		SOIL ANGLE OF FRICTION (DEGREES)	COHESION/ ULTIMATE SHEAR STRENGTH (PSF)
				γ SAT	γ SUB		
B-SIG-1	0 TO 13.5	HA TO 13	SP/SP-SM	112	50.0	30	0
	13.5 TO 23.5	3 TO 7	SP/SP-SM	105	43.0	29	0
	23.5 TO 28.5	18	SP/SP-SM	112	50.0	30	0
	28.5 TO 35	35 TO 47	SP/SP-SM	120	58.0	34	0
B-SIG-2	0 TO 18.5	HA TO 5	SP/SP-SM	105	43.0	29	0
	18.5 TO 28.5	WH TO 1	SP/SP-SM/SM	100	38.0	26	0
	28.5 TO 35	50/5 TO 50/1	LIMESTONE	135	73.0	0	15000*

\*ULTIMATE SHEAR STRENGTH

BOR # B-SIG-1  
EASTING 416987  
NORTHING 1386683  
DATE 8/30/2020  
DRILLER K. CAUDILL  
HAMMER AUTOMATIC  
RIG D-25



BOR # B-SIG-2  
EASTING 416874  
NORTHING 1386544  
DATE 8/30/2020  
DRILLER K. CAUDILL  
HAMMER AUTOMATIC  
RIG D-25



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

REVISIONS				KEVIN H. SCOTT, P.E. P.E. LICENSE NUMBER 65514 TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637	CITY OF TARPON SPRINGS			REPORT OF CORE BORINGS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	CITY PROJECT NO.		
					CR 582	PINELLAS	TRI804		38 of 39



				BY	DATE
			DESIGNED	RWS	12/13/20
			DRAWN	RWS	2/13/21
REVISIONS	BY	DATE	CHECKED	ASP	2/25/21

CITY OF TARPON SPRINGS

REFERENCE POINTS



**American**  
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2818 Cypress Ridge Blvd, Suite 200  
Wesley Chapel, Florida 33544  
Phone: (813) 435-2600 Fax: (813) 435-2601  
Certificate of Authorization No. 9302  
Erik C. Leschak, P.E. No. 63874

DATE: 5/14/2021

SCALE: 1" = 60'

SHEET: 39 of 39

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