

CITY OF TAMPA TRANSPORTATION AND STORMWATER SERVICES DEPARTMENT

COMPONENTS OF CONTRACT PLANS SET
ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS
SIGNAL PLANS
LANDSCAPE PLANS

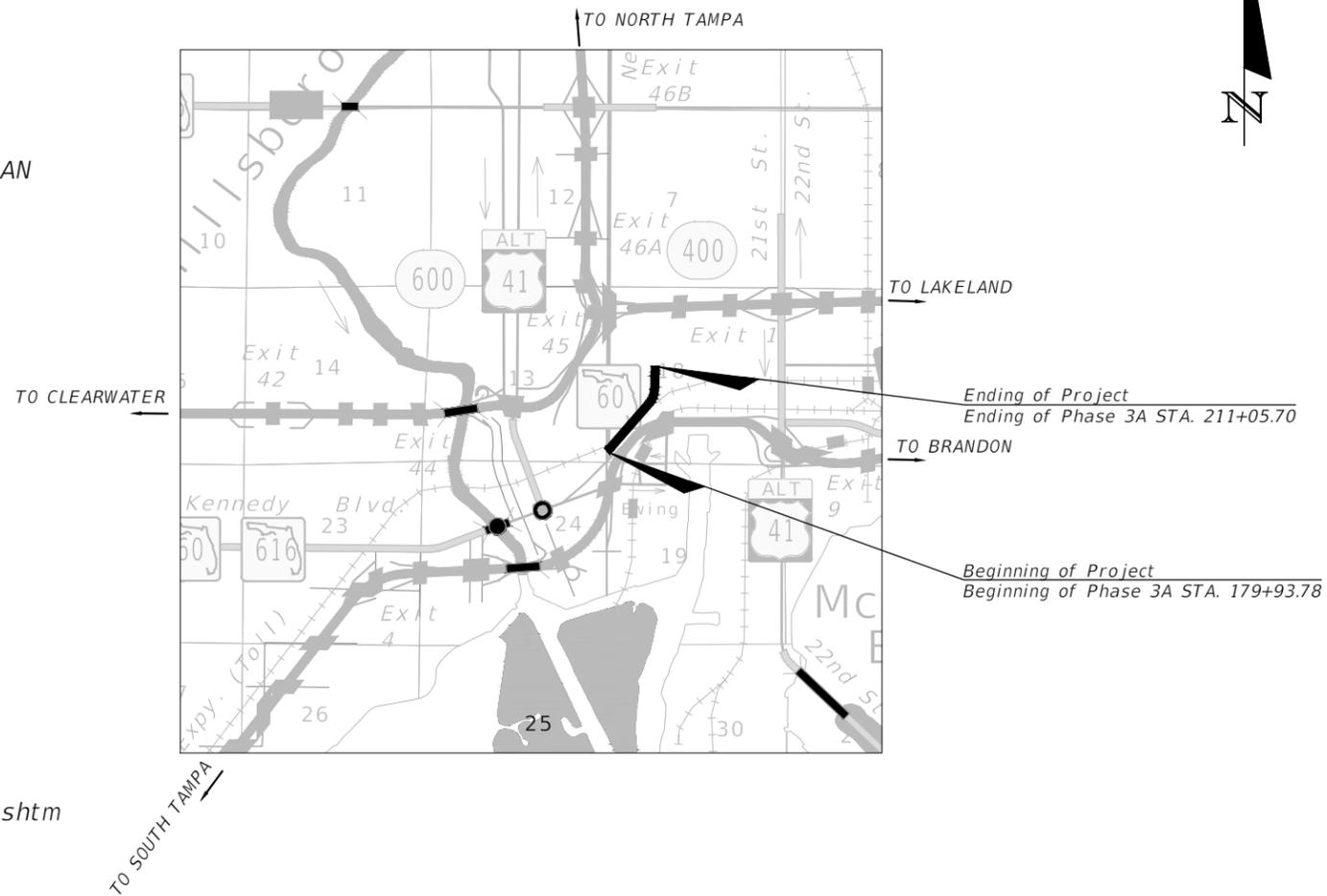
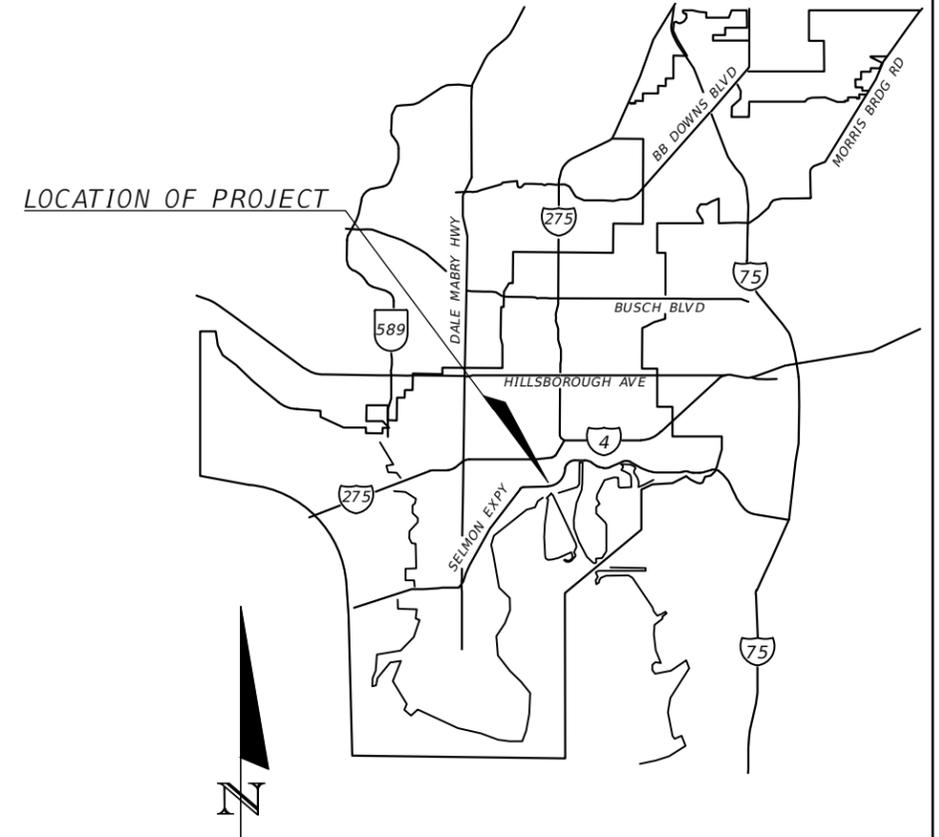
CONTRACT PLANS

FINANCIAL PROJECT ID 439476-2-58-01
(FEDERAL FUNDS)

E/W GREEN SPINE CYCLE TRACK - PH 3A FROM
N NEBRASKA AVE. TO 7TH AVE

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
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4-6	TYPICAL SECTIONS
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8	CURVE DATA TABLE & BENCHMARK TABLE
9	PROJECT LAYOUT
10-12	ROADWAY PLANS
13	SPECIAL DETAILS
14	INTERSECTION DETAILS
15-16	TRAFFIC CONTROL PLAN
17	EROSION CONTROL PLAN
18-19	STORMWATER POLLUTION PREVENTION PLAN
20-22	UTILITY ADJUSTMENT SHEETS



ENGINEER OF RECORD:

ALFREDO CELY, P.E.
P.E. NO.: 70653
COMPANY NAME: KISINGER CAMPO & ASSOCIATES CORP.
201 N FRANKLIN STREET, SUITE 400
TAMPA, FL, 33602
(813) 871-5331
CONTRACT NO.: 17-D-00022
VENDOR NO.: 59-1677145
CERTIFICATE OF AUTHORIZATION NO.: 02317

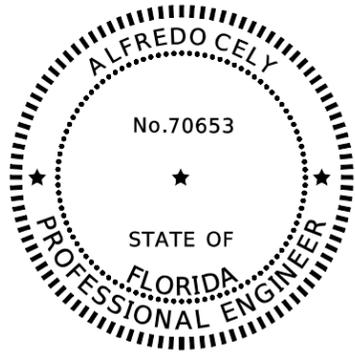
CITY OF TAMPA PROJECT MANAGER:
NINA S. MABILLEAU E.I.

GOVERNING STANDARD PLANS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
FY2019-20 DESIGN STANDARDS EBOOK (DSEB) AND
APPLICABLE DESIGN STANDARDS REVISIONS (DSRS)
AT THE FOLLOWING WEBSITE:
<http://www.fdot.gov/roadway/DesignStandards/Standards.shtm>

GOVERNING STANDARD SPECIFICATIONS:
CITY OF TAMPA AND FLORIDA DEPARTMENT OF
TRANSPORTATION, JANUARY 2020 DIVISION II AND III
AT THE FOLLOWING WEBSITE:
<http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
.....	2020	1

THE OFFICIAL RECORD OF THIS DRAWING IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-25.004, F.A.C.



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

Luis A Cely
2020.03.15 19:01:57 -04'00'

ON THE DATE ADJACENT TO THE SEAL

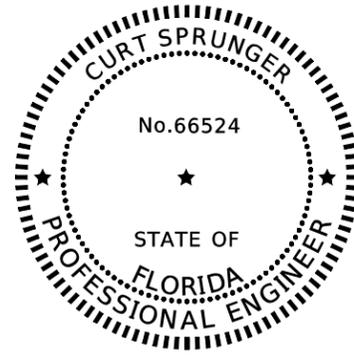
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KISINGER CAMPO & ASSOCIATES CORP.
201 N FRANKLIN ST, SUITE 400,
TAMPA, FL 33602
FLORIDA CERTIFICATE OF AUTHORIZATION
NO. 02317
ALFREDO CELY, P.E. NO. 70653

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

PLAN INDEX

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10-12	ROADWAY PLANS
13	SPECIAL DETAILS
14	INTERSECTION DETAILS
15-16	TRAFFIC CONTROL PLAN
20-22	UTILITY ADJUSTMENT SHEETS



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

Curtis Sprunger
2020.03.16 08:10:09 -04'00'

ON THE DATE ADJACENT TO THE SEAL

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KISINGER CAMPO & ASSOCIATES CORP.
201 N FRANKLIN ST, SUITE 400,
TAMPA, FL 33602
FLORIDA CERTIFICATE OF AUTHORIZATION
NO. 02317
CURT SPRUNGER, P.E. NO. 66524

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

PLAN INDEX

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
17	EROSION CONTROL PLAN
18-19	STORMWATER POLLUTION PREVENTION PLAN

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

KISINGER CAMPO & ASSOCIATES CORP.
201 N FRANKLIN ST, SUITE 400,
TAMPA, FL 33602
FLORIDA CERTIFICATE OF AUTHORIZATION
NO. 02317
ENGINEER OF RECORD: ALFREDO CELY, P.E.
P.E. NO: 70653

CITY OF TAMPA TRANSPORTATION AND STORMWATER SERVICES DEPARTMENT

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
OFF-SYS	HILLSBOROUGH	439476-2-58-01

SIGNATURE SHEET

SHEET NO.

2

PHASE 3A - NUCCIO PKWY FROM NEBRASKA AVE TO 7TH AVE

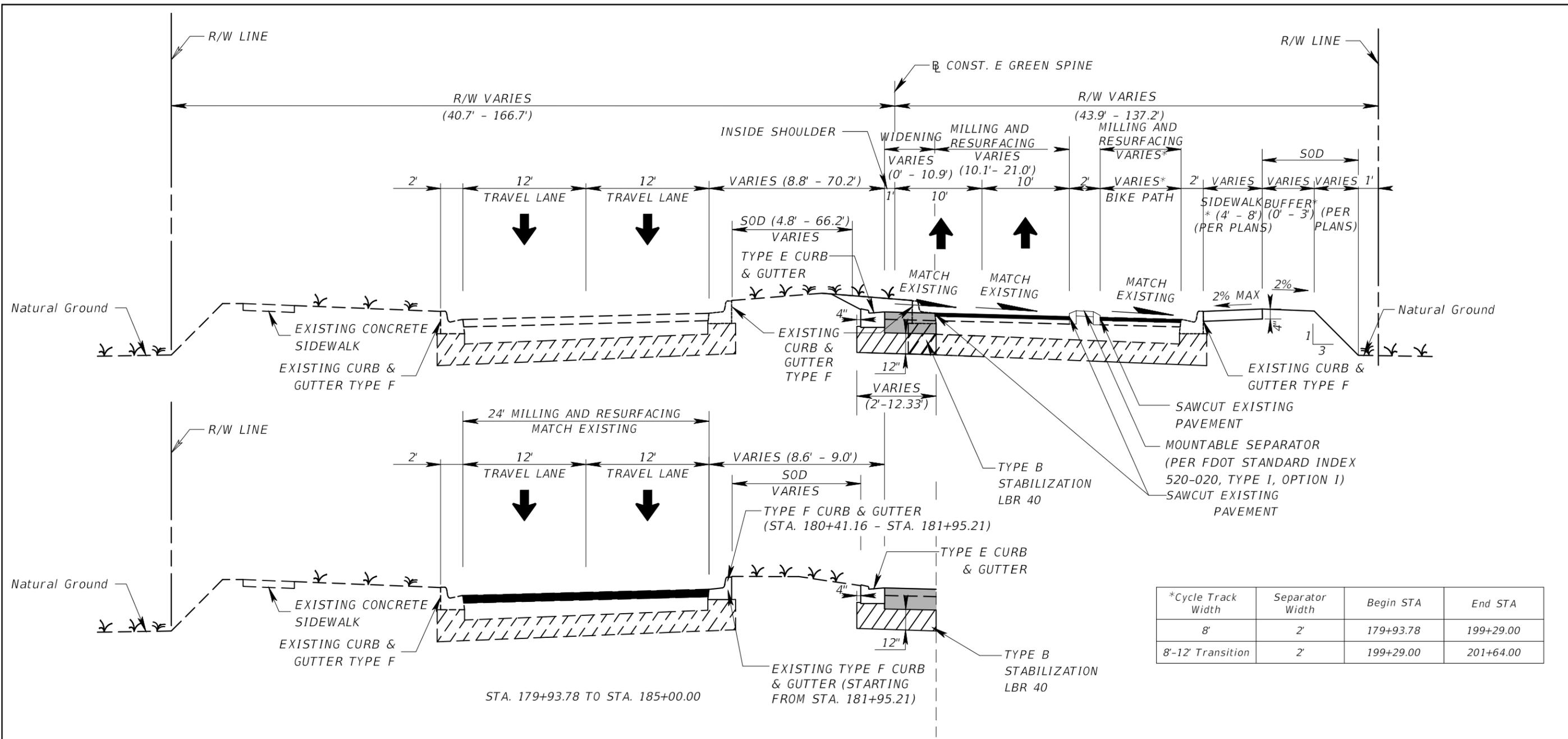
CITY OF TAMPA					
SUMMARY OF PAY ITEMS					
LEAD PROJECT	439476-1-58-01	DISTRICT: D7	COUNTY /SECTION:		
PROJECT	43947615801	COUNTY: HILLSBOROUGH			
SUMMARY OF ROADWAY					
SPC	ALT	PAY ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY
		101 1	MOBILIZATION	LS	1
		102 1	MAINTENANCE OF TRAFFIC	LS	1
		104 10 3	SEDIMENT BARRIER	LF	2,230
		104 18	INLET PROTECTION SYSTEM	EA	7
		110 1 1	CLEARING AND GRUBBING	AC	4
		110 4 10	REMOVAL OF EXIST CONC	SY	610
		120 1	REGULAR EXCAVATION	CY	5,500
		120 6	EMBANKMENT	CY	3,000
		160 4	TYPE B STABILIZATION	SY	2,550
		285 707	OPTIONAL BASE GROUP 07	SY	1,542
		327 70 6	MILLING EXIST ASPH PAVT, 1.5" AVG DEPTH	SY	12,560
		334 1 53	SUPERPAVE ASPH CONC, TRAF C, PG 76-22	TN	160
		337 7 83	ASPH CONC FC, TRAFFIC C, FC-12.5, PG 76-22	TN	1,200
		400 0 11	CONC CLASS NS, GRAVITY WALL	CY	3
		425 5	MANHOLE, ADJUST	EA	2
		515 2 311	PED/BICYCLE RAILING, ALUM, 42" TYPE 1	LF	10
		520 1 7	CONCRETE CURB & GUTTER, TYPE E	LF	1,950
		520 1 10	CONCRETE CURB & GUTTER, TYPE F	LF	575
		520 70	CONCRETE TRAFFIC SEPARATOR, SP- VAR WIDT	SY	740
		522 1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	SY	1,550
		527 2	DETECTABLE WARNINGS	SY	45
		570 1 2	PERFORMANCE TURF, SOD	SY	7,500
		9910	ADJUST VALVE BOX (HEIGHT)	EA	2
		999 25	INITIAL CONTINGENCY AMOUNT, DO NOT BID	LS	1
SUMMARY OF SIGNAL, SIGNING & PAVEMENT MARKINGS, SIGNALIZATION					
SPC	ALT	PAY ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY
		630 2 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	28
		630 2 12	CONDUIT, F&I, DIRECTIONAL BORE	LF	505
		632 7 2	SIGNAL CABLE, REPAIR/REPL-FUR & INSTALL	LF	330
		635 2 11	PULL & SPLICE BOX, F&I, 13" x 24"	EA	7
		646 1 11	ALUMINUM SIGNALS POLE, PEDESTAL	EA	4

CITY OF TAMPA					
SUMMARY OF PAY ITEMS					
LEAD PROJECT	439476-1-58-01	DISTRICT: D7	COUNTY /SECTION:		
PROJECT	43947615801	COUNTY: HILLSBOROUGH			
SUMMARY OF SIGNAL, SIGNING & PAVEMENT MARKINGS, SIGNALIZATION					
SPC	ALT	PAY ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY
		650 1 14	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY	AS	8
		650 1 70	VEHICULAR TRAFFIC SIGNAL, RELOCATE-INCLUDES REMOVAL AND REINSTALLATION	AS	1
		670 5 400	TRAFFIC CONTROLLER ASSEMBLY, MODIFY	AS	2
		523 1 3	PETTERED PAVEMENT, INCLUDING GREEN BIKE LANES	SY	94
		654 2 21	RECTANGULAR RAPID FLASHING BEACON, FURNISH & INSTALL- SOLAR POWERED, COMPLETE SIGN ASSEMBLY- SINGLE DIRECTION	AS	4
		700 1 11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	23
		700 1 12	SINGLE POST SIGN, F&I GROUND MOUNT, 12-20 SF	AS	6
		700 1 18	SINGLE POST SIGN, F&I GROUND MOUNT, IN-STREET FLEXIBLE POST SIGN	AS	8
		700 1 50	SINGLE POST SIGN, RELOCATE	AS	3
		700 1 60	SINGLE POST SIGN, REMOVE	AS	9
		700 3 502	SIGN PANEL, RELOCATE, UP TO 12-20 SF	AS	2
		705 11 1	DELINEATOR, FLEXIBLE TUBULAR	EA	1
		705 11 3	DELINEATOR, FLEXIBLE HIGH VISABILITY MEDIAN	EA	11
		710 90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	LS	1
		711 11 123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF	752
		711 11 125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF	805
		711 11 141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 GAP EXTENSION, 6"	GM	0.177
		711 11 160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE OR SYMBOL	EA	16
		711 11 170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA	30
		711 11 224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF	8
		711 11 241	THERMOPLASTIC, STANDARD, YELLOW, 2-4 DOTTED GUIDE LINE /6-10 DOTTED EXTENSION LINE, 6"	GM	0.167
		711 14 125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF	881
		711 14 160	THERMOPLASTIC, PREFORMED, WHITE, MESSAGE	EA	16
		711 16 101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	GM	0.819
		711 16 102	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 8"	GM	0.042
		711 16 133	THERMOPLASTIC, STANDARD-OTHER SURFACES WHITE, SKIP, 12"- APPROACH TO TOLL PLAZA OR 3-9 LANE DROP	GM	0.636
		711 16 201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	GM	1.172
SUMMARY OF LANDSCAPE PLANS					
SPC	ALT	PAY ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY
		0580 1 2	LANDSCAPE COMPLETE- LARGE PLANTS	LS	1
		SP-13.03	IRRIGATION	LS	1

Pay Item Notes:

- 0527-2 All detectable warnings are to be the standard ADA 'plastic' mat truncated domes (RED Colored) on concrete ADA ramps. Submit sample of detectable warning material with shop drawing to the City for approval prior to installation.
- 654-2-21 Paint pedestal, pole and back of sign assemblies black (Federal Standard No. 17038). Payment for painting these elements is to be included within this pay item.
- 646-1-11 Paint pedestal, pole and back of sign assemblies black (Federal Standard No. 17038). Payment for painting these elements is to be included within this pay item.
- 700-1-11 Paint pole and back of sign assemblies black (Federal Standard No. 17038). Payment for painting these elements is to be included within this pay item.
- 700-1-12 Paint pole and back of sign assemblies black (Federal Standard No. 17038). Payment for painting these elements is to be included within this pay item.
- 700-1-50 Paint pole and back of sign assemblies black (Federal Standard No. 17038). Payment for painting these elements is to be included within this pay item.

REVISIONS				KISINGER CAMPO & ASSOCIATES CORP. 201 N FRANKLIN ST, SUITE 400, TAMPA, FL 33602 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 02317 ENGINEER OF RECORD: ALFREDO CELY, P.E. P.E. NO: 70653	CITY OF TAMPA TRANSPORTATION AND STORMWATER SERVICES DEPARTMENT			<i>SUMMARY OF PAY ITEMS</i>	SHEET NO. 3
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					OFF-SYS	HILLSBOROUGH	439476-2-58-01		



TYPICAL SECTION I
PHASE 3A - NUCCIO PKWY. (NEBRASKA AVE. TO 7TH AVE.)
 STA. 179+93.78 TO STA. 201+85.96

SPECIAL EVENTS NOTE:

FOR THE NORTHBOUND LANES OF NUCCIO PARKWAY, FROM NEBRASKA AVENUE TO 3RD AVE, THERE IS A TOTAL DRIVABLE PAVEMENT WIDTH OF 22.5 FT THAT CAN BE USED DURING SPECIAL EVENTS. THE 22.5 FT WIDTH IS THE COMBINATION OF 21 FT OF ASPHALT PAVEMENT AND 1.5FT OF TYPE "E" GUTTER.

IN ADDITION, THE CYCLE TRACK TRAFFIC SEPARATOR IS MOUNTABLE, WHICH CAN ALLOW VEHICLES TO RIDE ON THE CYCLE TRACK PAVEMENT DURING SPECIAL EVENTS.

MILL EXISTING ASPHALT PAVEMENT (1.5" AVG. DEPTH)
 FRICTION COURSE FC-12.5 (TRAFFIC C) (1.5") (PG 76-22)

INSIDE WIDENING

12" TYPE B STABILIZATION LBR 40
 OPTIONAL BASE GROUP 7 WITH
 STRUCTURAL COURSE TYPE SP (TRAFFIC C) (1.5") (PG 76-22)
 FRICTION COURSE FC-12.5 (TRAFFIC C) (1.5") (PG 76-22)

*Cycle Track Width	Separator Width	Begin STA	End STA
8'	2'	179+93.78	199+29.00
8'-12' Transition	2'	199+29.00	201+64.00

TRAFFIC DATA

CURRENT YEAR	= 2019 AADT = 6,300
ESTIMATED OPENING YEAR	= 2025 AADT = 7,000
ESTIMATED DESIGN YEAR	= 2045 AADT = 9,200
K=9% D=100% T=4.5% (24 HOUR)	
DESIGN HOUR T	= 2.25%
DESIGN SPEED	= 30 MPH

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

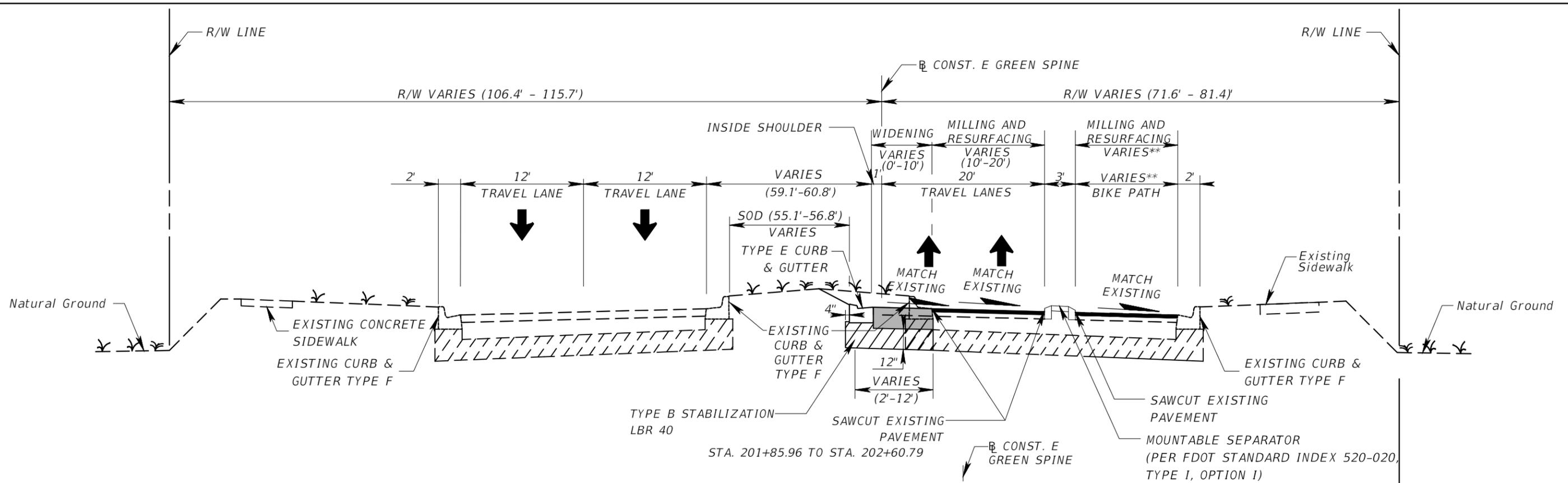
KISINGER CAMPO & ASSOCIATES CORP.
 201 N FRANKLIN ST, SUITE 400,
 TAMPA, FL 33602
 FLORIDA CERTIFICATE OF AUTHORIZATION
 NO. 02317
 ENGINEER OF RECORD: ALFREDO CELY, P.E.
 P.E. NO: 70653

CITY OF TAMPA TRANSPORTATION AND STORMWATER SERVICES DEPARTMENT		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
OFF-SYS	HILLSBOROUGH	439476-2-58-01

TYPICAL SECTION - (1)

SHEET NO. 4

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TYPICAL SECTION II
PHASE 3A - NUCCIO PKWY. (NEBRASKA AVE. TO 7TH AVE.)
 STA. 201+85.96 TO 204+49.00

MILL EXISTING ASPHALT PAVEMENT (1.5" AVG. DEPTH)
 FRICTION COURSE FC-12.5 (TRAFFIC C) (1.5") (PG 76-22)

INSIDE WIDENING

12" TYPE STABILIZATION LBR 40
 OPTIONAL BASE GROUP 7 WITH
 STRUCTURAL COURSE TYPE (TRAFFIC C) (1.5") (PG 76-22)
 FRICTION COURSE FC-12.5 (TRAFFIC C) (1.5") (PG 76-22)

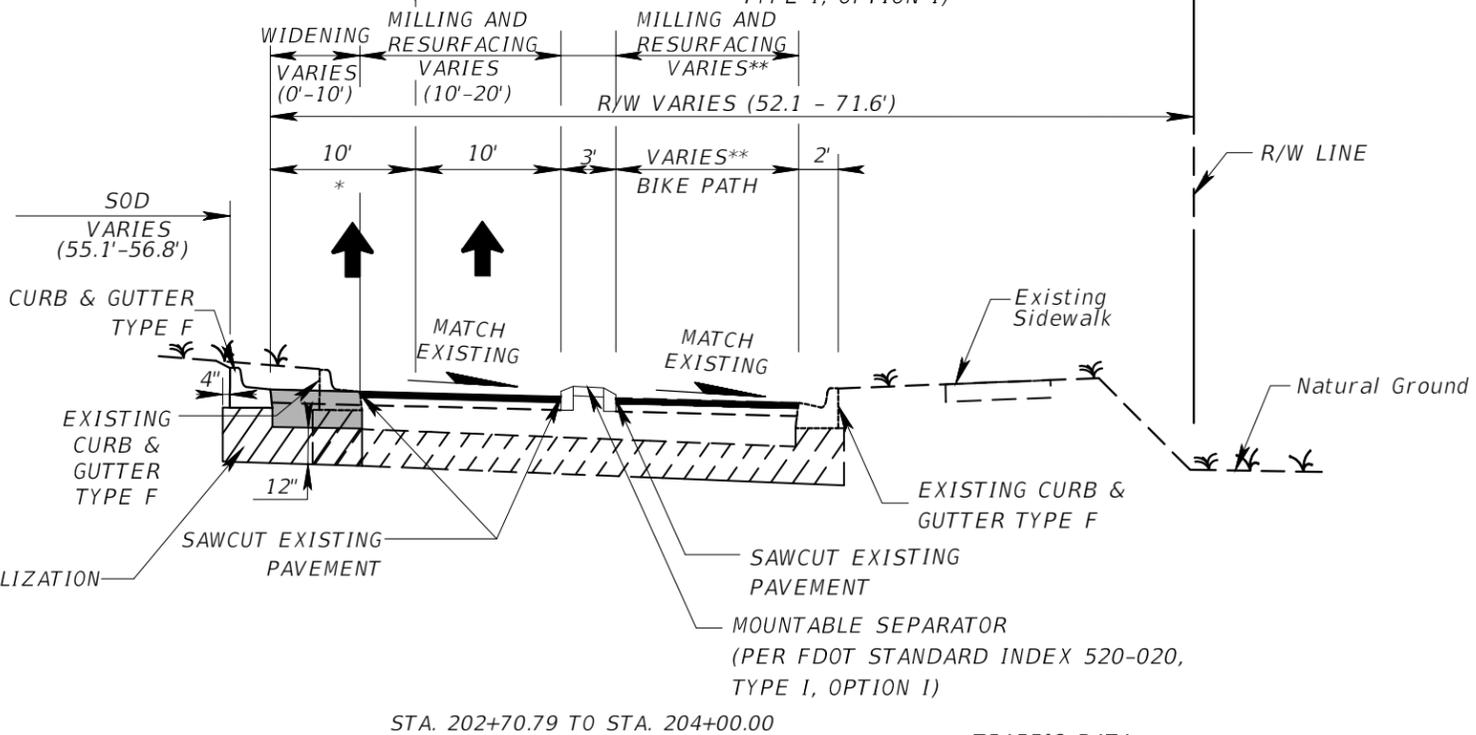
* - TRAFFIC LANE WIDTH TABLE

Sta.	Offset
202+60.79	10.00
203+61.32	10.00
204+00.00	11.13

SPECIAL EVENTS NOTE:
 FOR THE NORTHBOUND LANES OF NUCCIO PARKWAY, FROM NEBRASKA AVENUE TO 3RD AVE, THERE IS A TOTAL DRIVABLE PAVEMENT WIDTH OF 22.5 FT THAT CAN BE USED DURING SPECIAL EVENTS. THE 22.5 FT WIDTH IS THE COMBINATION OF 21 FT OF ASPHALT PAVEMENT AND 1.5FT OF TYPE "E" GUTTER.

IN ADDITION, THE CYCLE TRACK TRAFFIC SEPARATOR IS MOUNTABLE, WHICH CAN ALLOW VEHICLES TO RIDE ON THE CYCLE TRACK PAVEMENT DURING SPECIAL EVENTS.

**Cycle Track Width	Separator Width	Begin STA	End STA
12'-10' Transition	3'	202+93.00	204+49.00



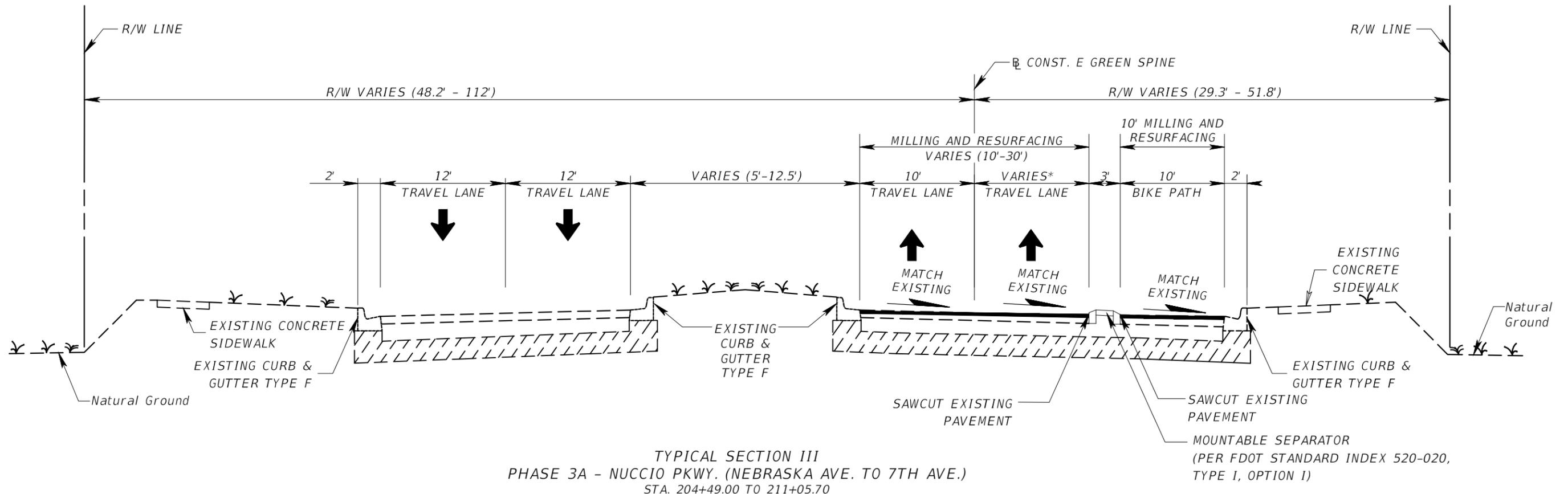
TRAFFIC DATA

CURRENT YEAR	= 2019 AADT = 6,300
ESTIMATED OPENING YEAR	= 2025 AADT = 7,000
ESTIMATED DESIGN YEAR	= 2045 AADT = 9,200
K=9% D=100% T=4.5% (24 HOUR)	
DESIGN HOUR T	= 2.25%
DESIGN SPEED	= 30 MPH

REVISIONS				KISINGER CAMPO & ASSOCIATES CORP. 201 N FRANKLIN ST, SUITE 400, TAMPA, FL 33602 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 02317 ENGINEER OF RECORD: ALFREDO CELY, P.E. P.E. NO: 70653	CITY OF TAMPA TRANSPORTATION AND STORMWATER SERVICES DEPARTMENT			SHEET NO. 5
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					OFF-SYS	HILLSBOROUGH	439476-2-58-01	

TYPICAL SECTION - (2)

THE OFFICIAL RECORD OF THIS DRAWING IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-25.004, F.A.C.



* - TRAFFIC SEPARATOR
 BASELINE OFFSET TABLE

Sta.	Offset
204+00.00	10.00
208+87.00	10.00
208+93.00	10.20
209+43.00	15.10
209+48.00	16.00
209+66.00	19.10
209+72.00	20.00
210+20.00	20.00

MILL EXISTING ASPHALT PAVEMENT (1.5" AVG. DEPTH)
 FRICTION COURSE FC-12.5 (TRAFFIC C) (1.5") (PG 76-22)

TRAFFIC DATA

CURRENT YEAR	= 2019 AADT = 6,300
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K=9% D=100% T=4.5% (24 HOUR)	
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REVISIONS				KISINGER CAMPO & ASSOCIATES CORP. 201 N FRANKLIN ST, SUITE 400, TAMPA, FL 33602 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 02317 ENGINEER OF RECORD: ALFREDO CELY, P.E. P.E. NO: 70653	CITY OF TAMPA TRANSPORTATION AND STORMWATER SERVICES DEPARTMENT			TYPICAL SECTION - (3)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		

THE OFFICIAL RECORD OF THIS DRAWING IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-25.004, F.A.C.

GENERAL NOTES

1. BENCHMARK ELEVATIONS SHOWN ON THE PLANS ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
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:
CLARENCE WADE, III, PLS
P.L.S. NO.: 4383
CITY OF TAMPA, TRANSPORTATION & STORMWATER SERVICES / SURVEY SECTION
3. EXISTING DRAINAGE STRUCTURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED.
4. IF ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, IMMEDIATELY NOTIFY THE ENGINEER IN CONJUNCTION WITH THE CITY SURVEYOR, CLARENCE "LUCKY" WADE (813) 635-3430.
5. PROPOSED CONCRETE SIDEWALK TO BE 4" CONCRETE. SIDEWALK CROSSING DRIVEWAYS TO BE 6" CONCRETE.
6. AREAS DISTURBED OUTSIDE THE PAVEMENT SHALL BE RESTORED TO THEIR ORIGINAL NEW CONDITION. GRASSED AREAS DISTURBED SHALL BE RESTORED WITH PERFORMANCE SOD.
7. MAINTAIN ONE COMPLETE SET OF CONTRACT DOCUMENTS AT THE SITE, THESE DOCUMENTS SHALL INCLUDE BUT NOT BE LIMITED TO CONTRACT DOCUMENTS AND SPECIFICATIONS, AND ANY TECHNICAL OR REFERENCE DOCUMENTS THAT MAY BE RELATIVE. AS THE WORK PROGRESSES RECORD ON ONE SET OF REPRODUCIBLE DRAWINGS ALL CHANGES AND DEVIATIONS FROM THE ORIGINAL PLANS. RECORD THE EXACT LOCATION OF ALL CHANGES IN VERTICAL AND HORIZONTAL ALIGNMENT BY OFFSETS AND TIES TO PERMANENT IMPROVEMENTS SUCH AS STRUCTURES AND CURBS. ALL DEVIATIONS FROM THESE PLANS SHALL BE APPROVED BY THE ENGINEER.
8. ALL WORK AND MATERIALS WHICH DO NOT CONFORM TO THE CITY'S SPECIFICATIONS ARE SUBJECT TO REMOVAL AND REPLACEMENT WITH APPROVED MATERIALS FOR NO ADDITIONAL PAYMENT.
9. ANY WORK PERFORMED WITHOUT THE KNOWLEDGE OF THE CITY IS SUBJECT TO RE-EXCAVATION, REMOVAL AND REPLACEMENT OF SAME TO BE DONE FOR NO ADDITIONAL PAYMENT.
10. PROVIDE SUFFICIENT PERSONNEL AND EQUIPMENT ON THE JOB AT ALL TIMES DURING CONSTRUCTION TO SATISFY THE SPECIFICATIONS AND COMPLETE WORK.
11. VERIFY ALL QUANTITIES SHOWN ON THE PLANS. IF ANY DISCREPANCIES IN QUANTITIES ARE FOUND, NOTIFY THE PROJECT ENGINEER AND THE CITY.
12. ALL REGULATORY AND PERMITTING AGENCIES' REQUIREMENTS SHALL BE COMPLIED WITH.
13. APPROPRIATE TURBIDITY CONTROL DEVICES (E.G. SILT FENCES, SYNTHETIC BALES) WILL BE UTILIZED DURING ALL PHASES OF INSTALLATION AND GRADING. CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THE NOTICE OF INTENT AND NOTICE OF TERMINATION TO THE EPA IN COMPLIANCE WITH THE CITY NPDES PERMIT. CONTRACTOR IS RESPONSIBLE FOR DEVELOPING AND MAINTAINING AN EFFECTIVE STORM WATER POLLUTION PREVENTION PLAN.
14. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS, BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY AND BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES AFFECTING HIS WORK. ANYTHING NOT SHOWN ON THESE DRAWINGS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND SHALL NOT CONSTITUTE AN EXTRA, UNLESS APPROVED BY THE ENGINEER.
15. CONTACT THE ENGINEER AND CITY IMMEDIATELY CONCERNING ANY CONFLICTS WITH THE CITY'S UTILITIES/STRUCTURES ARISING DURING CONSTRUCTION OF ANY FACILITIES SHOWN ON THESE DRAWINGS.
16. VERIFY ALL UTILITIES AND PROVIDE AT LEAST 48 HOURS NOTICE TO THE INDIVIDUAL UTILITY AGENCY OWNERS AND CITY PRIOR TO CONSTRUCTION.
17. REPLACE ALL PAVEMENT, CURBS, DRIVEWAYS, SIDEWALKS, FENCES, ETC., WITH THE SAME TYPE OF MATERIAL THAT WAS REMOVED DURING CONSTRUCTION OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL RESTORE ALL AREAS AFFECTED BY THE CONSTRUCTION TO IT'S ORIGINAL CONDITION, OR BETTER.
18. THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSION REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED.
19. ALL FRAMES, COVERS, VALVE BOXES, METER BOXES, FIRE HYDRANTS AND MANHOLES SHALL BE ADJUSTED TO FINISHED GRADE UPON COMPLETION OF PAVING OR RELATED CONSTRUCTION. ALL VALVE PADS SHALL BE POURED IN PLACE. NO PRE-FORMED VALVE PADS ALLOWED.

20. EXISTING UTILITIES NOT BEING RELOCATED, ARE TO REMAIN IN SERVICE.
21. THE RAILROAD TRACKS POSITION WAS TRACED FROM AERIALS AND IS APPROXIMATE.
21. ALL COST FOR GREEN COLORED PAVEMENT SHALL BE INCLUDED IN THE TOTAL COST OF PAY ITEM 334-1-11.
22. CONTRACTOR MUST MAINTAIN ALL VEHICLE DETECTION THROUGHOUT THE ENTIRETY OF THE PROJECT AND UNTIL THE REPLACED DETECTION DEVICES HAVE PASSED INSPECTION

CONSTRUCTION NOTES

1. USE APPROPRIATE MEASURES TO PREVENT EROSION AND TRANSPORT OF SEDIMENT MATERIAL TO INLETS, SURFACE DRAINS, LAKES, AND WETLANDS. THE CONTRACTOR SHALL USE INLET PROTECTION SYSTEMS AND SEDIMENT BARRIERS OR OTHER APPROPRIATE MEASURES TO PREVENT ADVERSE IMPACTS TO EXISTING SURFACE WATER QUALITY.
2. CHECK ALL EROSION AND SILTATION CONTROL DEVICES AFTER EACH RAINFALL AND REPAIR OR REPLACE THEM AS NEEDED..
3. CHECK ALL FUGITIVE DUST GENERATED BY CONSTRUCTION ACTIVITIES IN THE PROJECT BY WATERING OR OTHER METHODS AS REQUIRED.
4. ALL UNSUITABLE MATERIAL ENCOUNTERED DURING CONSTRUCTION, AS DETERMINED BY THE CITY CONSTRUCTION INSPECTOR, SHALL BE REMOVED AND REPLACED WITH CLEAN FILL.

CONTAMINATION NOTES

BASED ON THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION'S CONTAMINATION LOCATOR MAP, THE FOLLOWING DOCUMENTED CONTAMINATIONS MAY POTENTIALLY ADVERSELY IMPACT THE PROJECT:

1. STEVE'S RADIATORS LOCATED AT 1702 W. CASS STREET - FOLIO NO. 181298.0000 (FDEP FACILITY ID. #9102162 - ACTIVE PETROLEUM CLEANUP)
2. FORMER FLORIDA BREWERY SITE LOCATED AT 1234 E. 5TH/ AVENUE - FOLIO NO. 198684.0000 (FDEP FACILITY ID #9401813 - PENDING PETROLEUM CLEANUP)
3. FORMER SOUTHERN HYDRAULIC SERVICES LOCATED AT 1502 E. CASS STREET - FOLIO NO. 187517.0000 (FACILITY ID #9100548 - ACTIVE PETROLEUM CLEANUP)

STORMWATER NOTES

1. PROPOSED SIDEWALK SHALL NOT IMPEDE HISTORICAL DRAINAGE FLOW PATTERNS.
2. SIGNED AND SEALED AS-BUILT DRAWINGS WITH SURVEYED ELEVATION DATA SHALL BE SUBMITTED TO THE CITY OF TAMPA STORMWATER ENGINEERING SECTION (ATTENTION BARBARA GRAVE).

REVISIONS				KISINGER CAMPO & ASSOCIATES CORP. 201 N FRANKLIN ST, SUITE 400, TAMPA, FL 33602 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 02317 ENGINEER OF RECORD: ALFREDO CELY, P.E. P.E. NO: 70653	CITY OF TAMPA TRANSPORTATION AND STORMWATER SERVICES DEPARTMENT			SHEET NO. 7
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					OFF-SYS	HILLSBOROUGH	439476-2-58-01	

GENERAL NOTES

THE OFFICIAL RECORD OF THIS DRAWING IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-25.004, F.A.C.

CURVE DATA TABLE

Number	PC STA.	PI STA.	PT STA.	T	D	Δ	SIDE	L	R	PC NORTH.	PC EAST.	PI NORTH.	PI EAST.	PT NORTH.	PT EAST.
C1	180+85.24	181+09.48	181+33.69	24.24	010° 03' 07"	004° 52' 11"	LT.	48.447	570.000	1316052.0484	510567.4040	1316068.9050	510584.8204	1316087.1792	510600.7430
C2	199+25.74	200+97.61	202+60.79	171.87	009° 23' 34"	031° 28' 13"	LT.	335.049	610.000	1317438.3005	511777.9906	1317567.8801	511890.8949	1317737.3425	511919.5444
C3	203+61.32	204+02.99	204+44.48	41.67	011° 01' 06"	009° 09' 45"	LT.	83.156	520.000	1317824.9454	511944.4965	1317866.0291	511951.4421	1317907.6945	511951.7572
C4	207+86.17	208+22.34	208+58.37	36.17	012° 03' 44"	008° 42' 33"	RT.	72.202	475.000	1318249.3720	511954.3413	1318285.5417	511954.6148	1318321.2529	511960.3620
C5	208+86.89	209+16.71	209+46.38	29.81	016° 22' 13"	009° 44' 17"	LT.	59.486	350.000	1318349.4144	511964.8942	1318378.8503	511969.6315	1318408.6633	511969.3216

BENCHMARKS

Benchmark Name	Sta.	Offset	Side	East	North	Elev.	Description
BM501	179+75.85	38.38	Rt.	510 515.487	1 315 948.387	20.43	Nail & Disc stamped "City of Tampa Trans. Div. Survey Control"
BM502	180+71.67	64.27	Lt.	510 512.953	1 316 088.796	20.68	Mag Nail & Disc "City of Tampa TS&S Survey Control"
BM503	184+60.82	31.79	Rt.	510 839.616	1 316 312.934	21.28	Mag Nail & Disc "City of Tampa TS&S Survey Control"
BM504	189+08.25	66.70	Lt.	511 059.288	1 316 714.975	20.90	Mag Nail & Disc "City of Tampa TS&S Survey Control"
BM505	193+77.33	32.04	Rt.	511 441.881	1 317 003.783	22.09	Mag Nail & Disc "City of Tampa TS&S Survey Control"
BM506	198+76.98	76.47	Lt.	511 688.305	1 317 451.777	22.93	Mag Nail & Disc "City of Tampa TS&S Survey Control"
BM507	201+56.99	46.61	Rt.	511 937.617	1 317 621.520	21.14	Mag Nail & Disc "City of Tampa TS&S Survey Control"
BM508	204+16.59	140.27	Lt.	511 810.789	1 317 888.405	24.90	Mag Nail & Disc "City of Tampa TS&S Survey Control"
BM509	207+73.49	34.11	Rt.	511 988.352	1 318 236.436	21.73	Mag Nail & Disc "City of Tampa TS&S Survey Control"
BM510	211+04.51	47.98	Lt.	511 919.966	1 318 566.986	23.69	Mag Nail & Disc "City of Tampa TS&S Survey Control"
BM511	213+00.09	34.74	Rt.	512 003.516	1 318 762.216	25.33	Nail & Disc stamped "City of Tampa Trans. Div. Survey Control"

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

KISINGER CAMPO & ASSOCIATES CORP.
 201 N FRANKLIN ST, SUITE 400,
 TAMPA, FL 33602
 FLORIDA CERTIFICATE OF AUTHORIZATION
 NO. 02317
 ENGINEER OF RECORD: ALFREDO CELY, P.E.
 P.E. NO: 70653

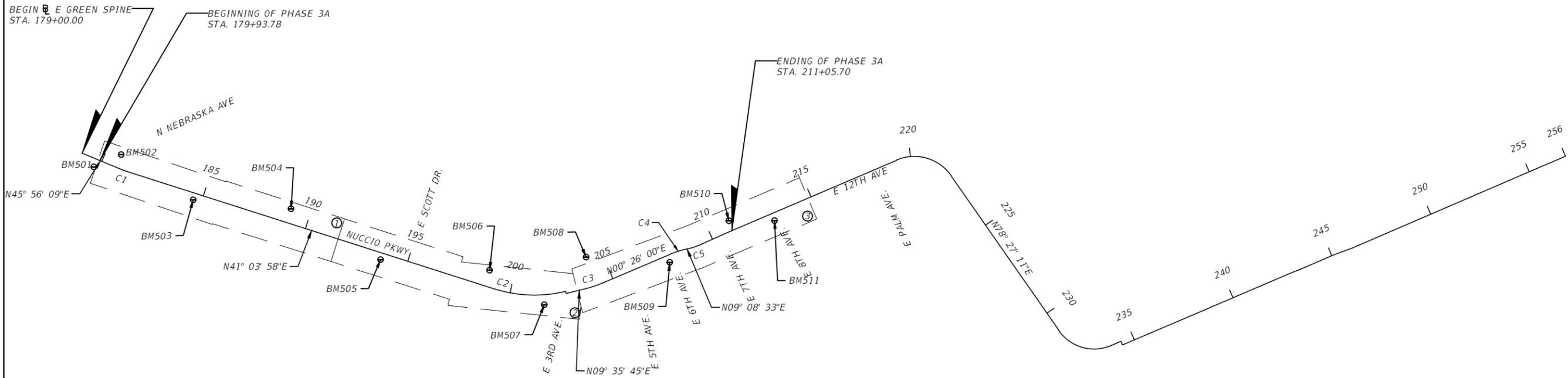
CITY OF TAMPA TRANSPORTATION AND
 STORMWATER SERVICES DEPARTMENT

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
OFF-SYS	HILLSBOROUGH	439476-2-58-01

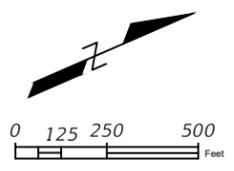
**CURVE DATA TABLE &
 BENCHMARKS TABLE**

SHEET NO.

8

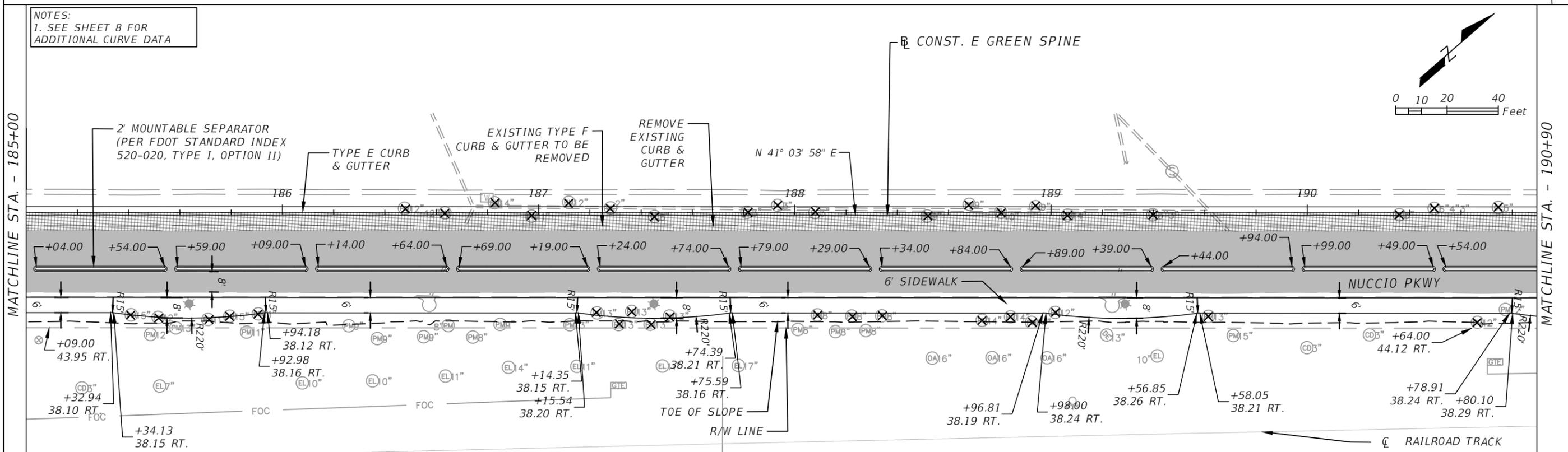
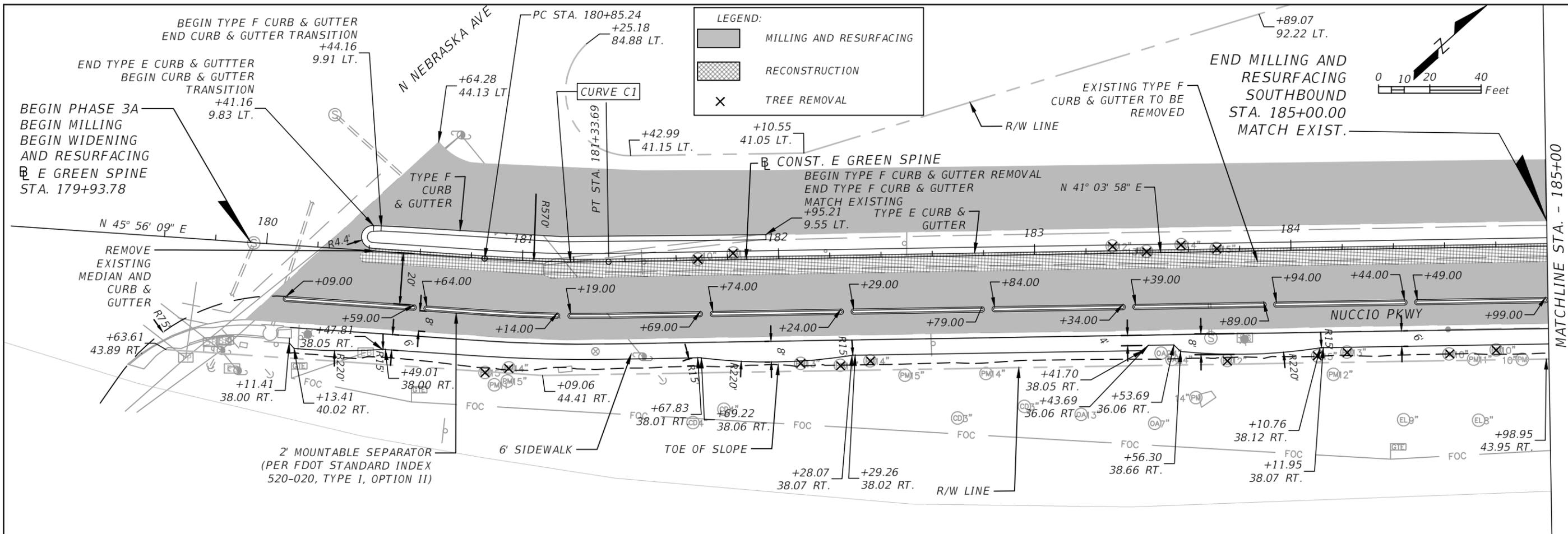


NOTE:
 1. SEE CURVE AND COORDINATE DATA SHEET FOR CURVE INFORMATION



REVISIONS				KISINGER CAMPO & ASSOCIATES CORP. 201 N FRANKLIN ST, SUITE 400, TAMPA, FL 33602 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 02317 ENGINEER OF RECORD: ALFREDO CELY, P.E. P.E. NO: 70653	CITY OF TAMPA TRANSPORTATION AND STORMWATER SERVICES DEPARTMENT			PROJECT LAYOUT	SHEET NO. 9
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				OFF-SYS	HILLSBOROUGH	439476-2-58-01			

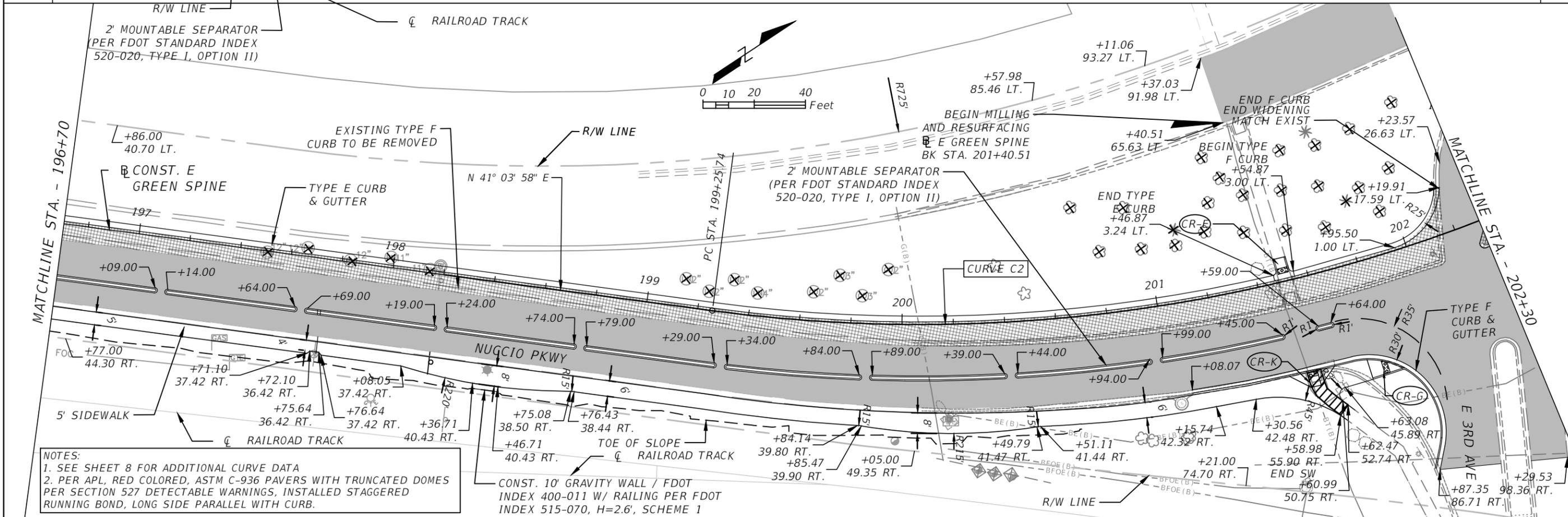
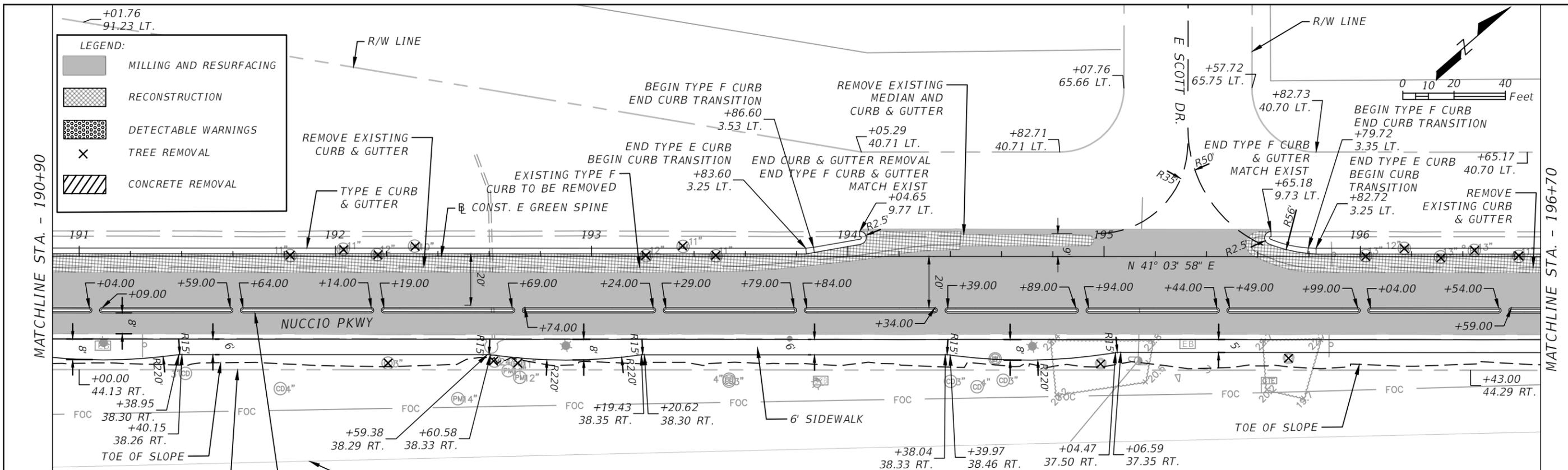
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NOTES:
1. SEE SHEET 8 FOR
ADDITIONAL CURVE DATA

REVISIONS				KISINGER CAMPO & ASSOCIATES CORP. 201 N FRANKLIN ST, SUITE 400, TAMPA, FL 33602 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 02317 ENGINEER OF RECORD: ALFREDO CELY, P.E. P.E. NO: 70653	CITY OF TAMPA TRANSPORTATION AND STORMWATER SERVICES DEPARTMENT			ROADWAY PLANS - (1)	SHEET NO. 10
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					OFF-SYS	HILLSBOROUGH	439476-2-58-01		

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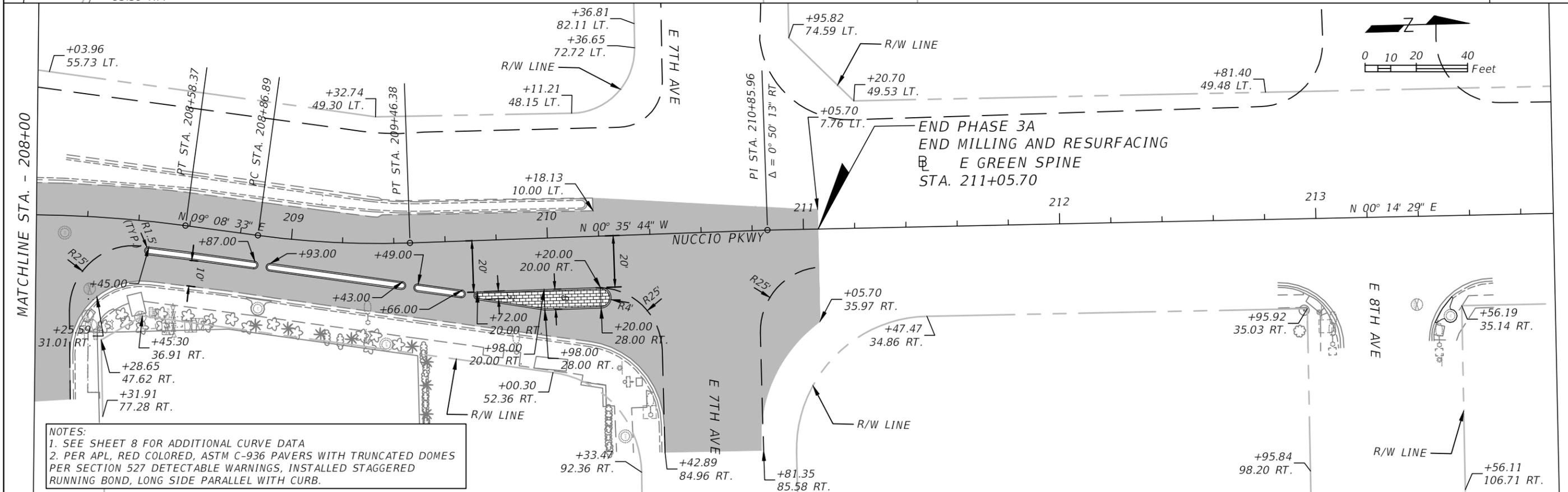
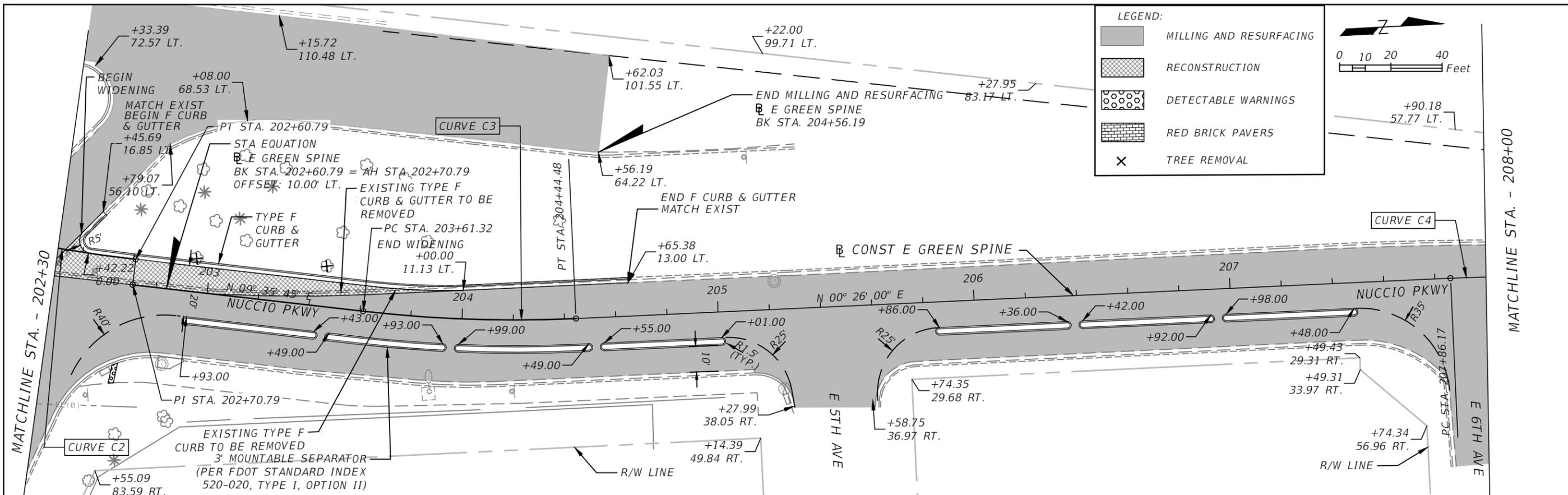


NOTES:
 1. SEE SHEET 8 FOR ADDITIONAL CURVE DATA
 2. PER APL, RED COLORED, ASTM C-936 PAVERS WITH TRUNCATED DOMES PER SECTION 527 DETECTABLE WARNINGS, INSTALLED STAGGERED RUNNING BOND, LONG SIDE PARALLEL WITH CURB.

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				OFF-SYS	HILLSBOROUGH	439476-2-58-01		

ROADWAY PLANS - (2)

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NOTES:
 1. SEE SHEET 8 FOR ADDITIONAL CURVE DATA
 2. PER APL, RED COLORED, ASTM C-936 PAVERS WITH TRUNCATED DOMES PER SECTION 527 DETECTABLE WARNINGS, INSTALLED STAGGERED RUNNING BOND, LONG SIDE PARALLEL WITH CURB.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

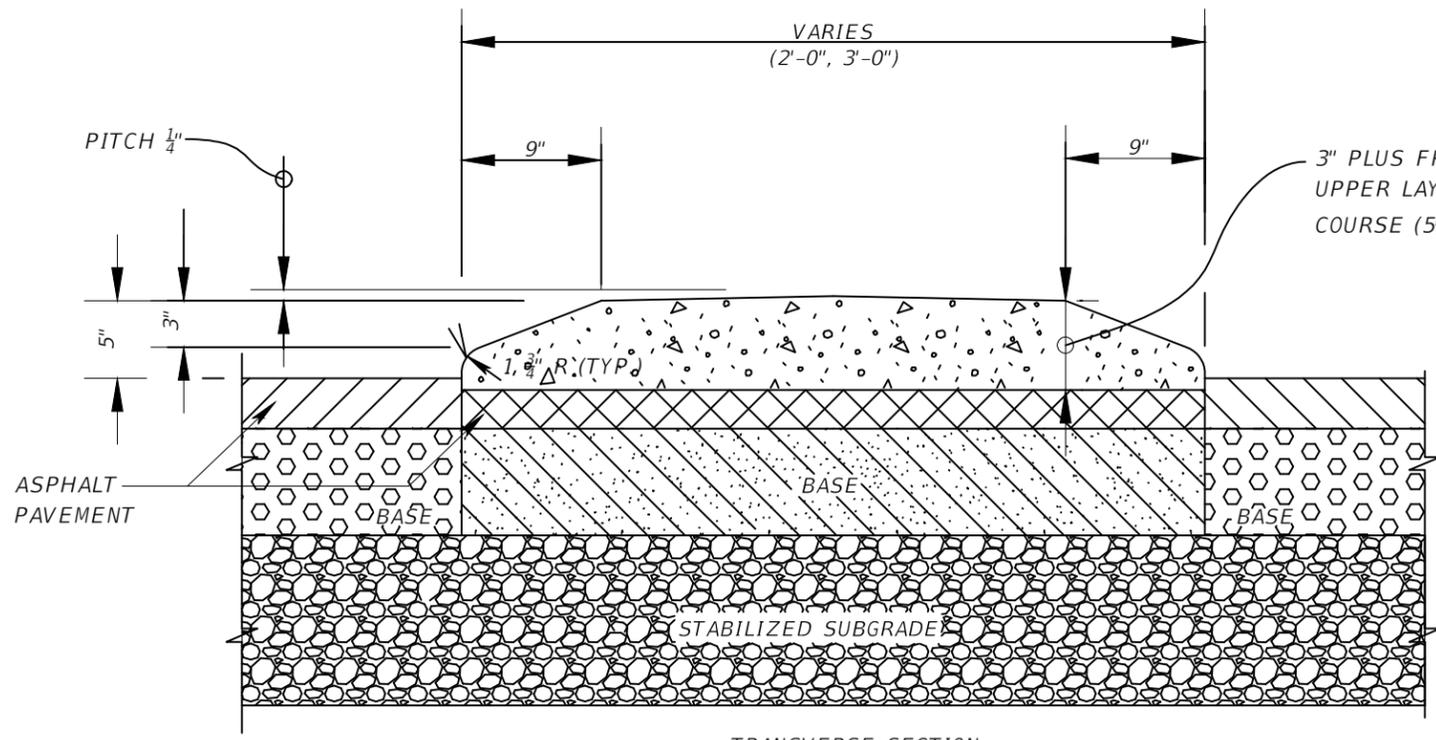
KISINGER CAMPO & ASSOCIATES CORP.
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 FLORIDA CERTIFICATE OF AUTHORIZATION
 NO. 02317
 ENGINEER OF RECORD: ALFREDO CELY, P.E.
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CITY OF TAMPA TRANSPORTATION AND STORMWATER SERVICES DEPARTMENT		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
OFF-SYS	HILLSBOROUGH	439476-2-58-01

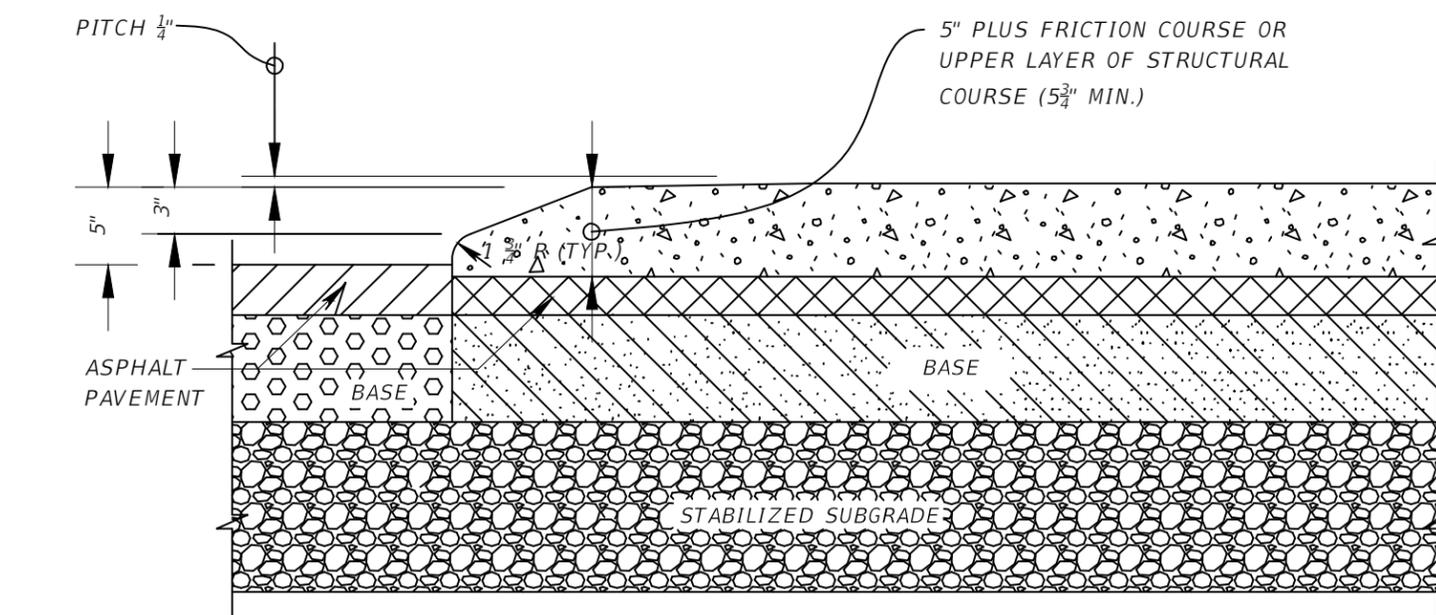
ROADWAY PLANS - (3)

SHEET NO.
12

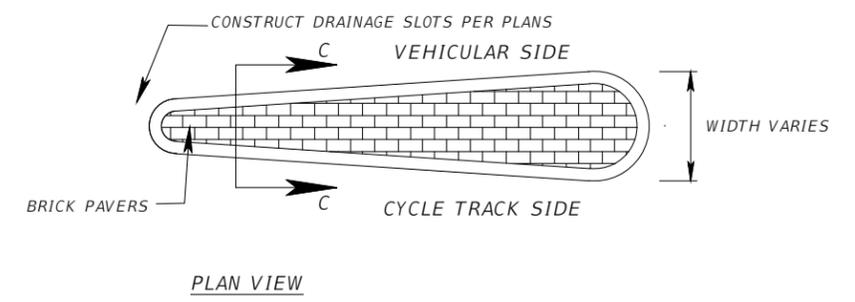
THE OFFICIAL RECORD OF THIS DRAWING IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-25.004, F.A.C.



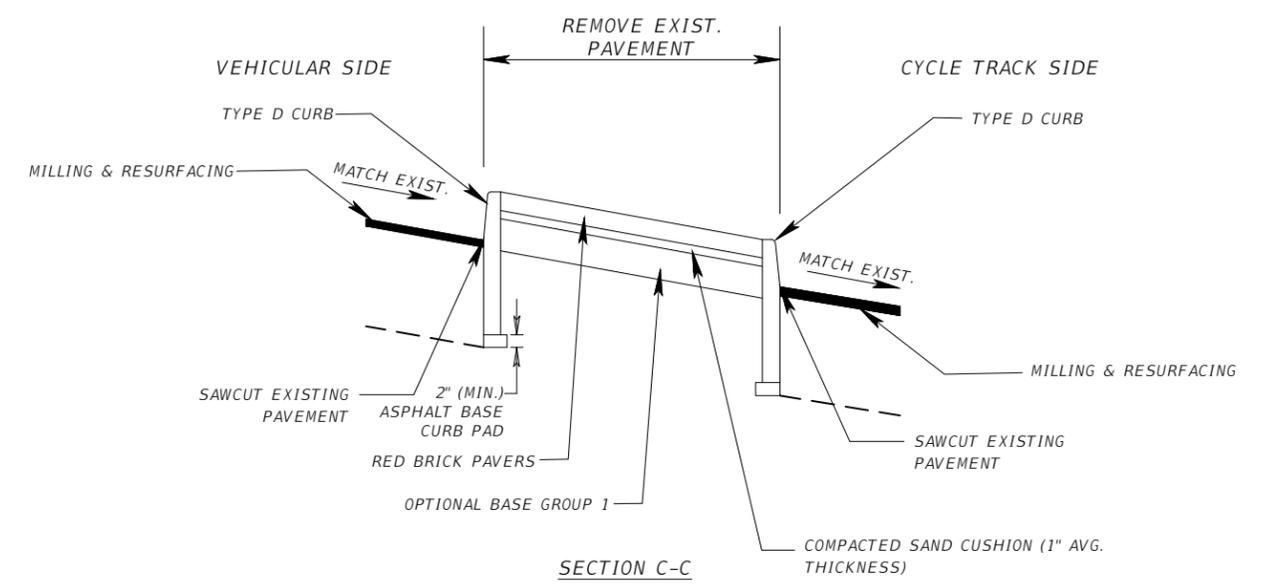
TRANSVERSE SECTION
MOUNTABLE TRAFFIC SEPARATOR DETAIL
NOT TO SCALE



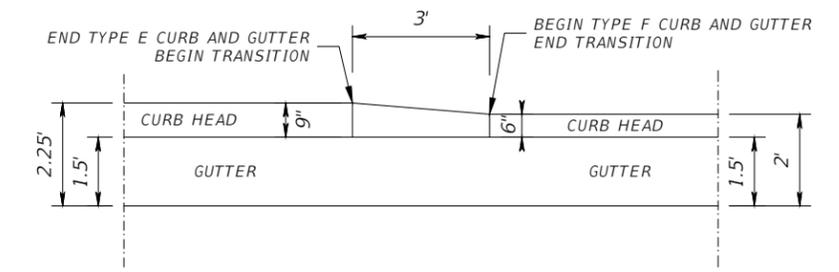
LONGITUDINAL SECTION (NOSE)
MOUNTABLE TRAFFIC SEPARATOR DETAIL
NOT TO SCALE



PLAN VIEW

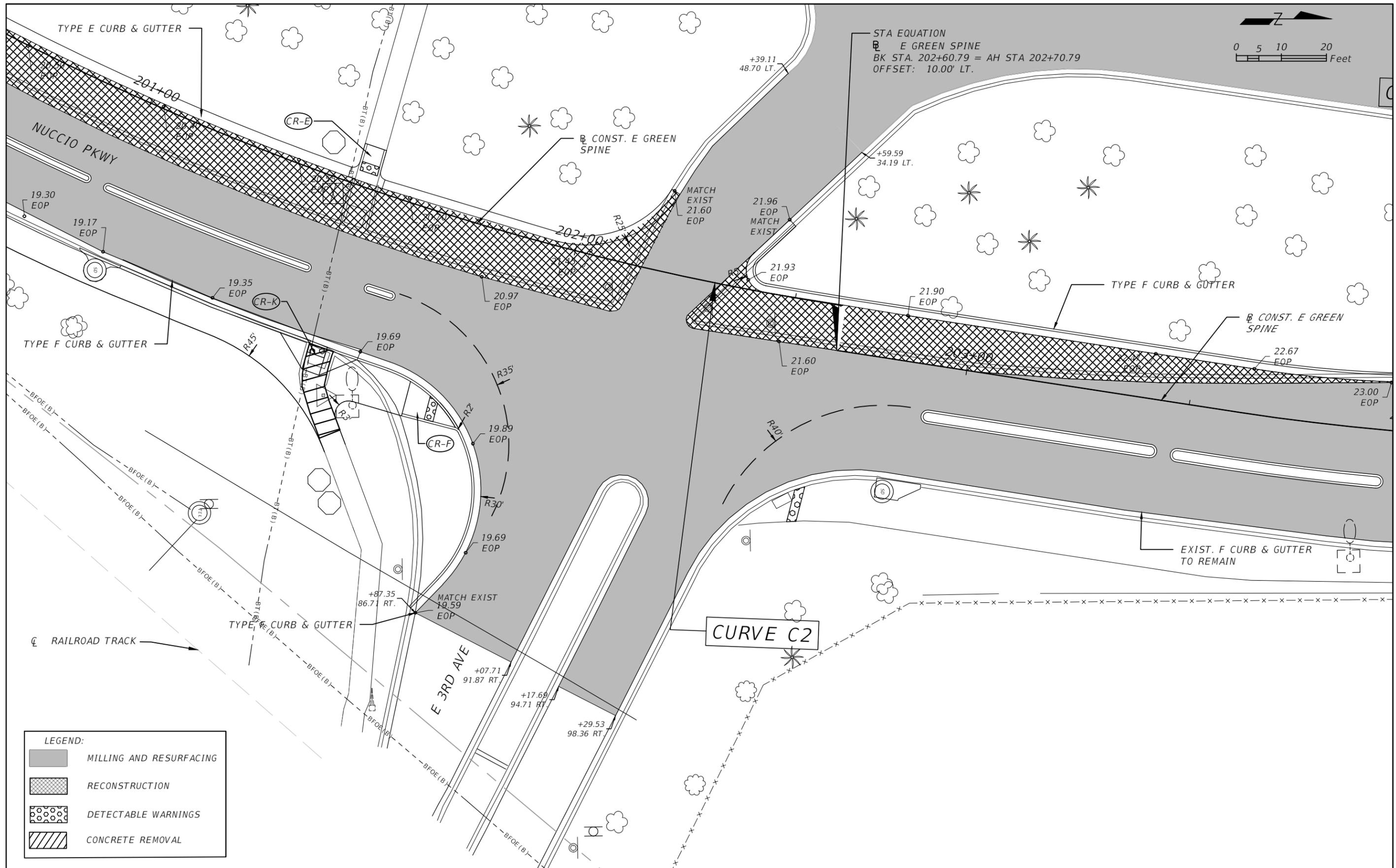


SECTION C-C
CONCRETE TRAFFIC SEPARATOR WITH RED BRICKS
NOT TO SCALE



TYPE E TO TYPE F CURB AND
GUTTER TRANSITION
NOT TO SCALE

REVISIONS				KISINGER CAMPO & ASSOCIATES CORP. 201 N FRANKLIN ST, SUITE 400, TAMPA, FL 33602 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 02317 ENGINEER OF RECORD: ALFREDO CELY, P.E. P.E. NO: 70653	CITY OF TAMPA TRANSPORTATION AND STORMWATER SERVICES DEPARTMENT			SHEET NO. 13
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					OFF-SYS	HILLSBOROUGH	439476-2-58-01	



LEGEND:

	MILLING AND RESURFACING
	RECONSTRUCTION
	DETECTABLE WARNINGS
	CONCRETE REMOVAL

REVISIONS	
DATE	DESCRIPTION

KISINGER CAMPO & ASSOCIATES CORP.
 201 N FRANKLIN ST, SUITE 400,
 TAMPA, FL 33602
 FLORIDA CERTIFICATE OF AUTHORIZATION
 NO. 02317
 ENGINEER OF RECORD: ALFREDO CELY, P.E.
 P.E. NO: 70653

CITY OF TAMPA TRANSPORTATION AND STORMWATER SERVICES DEPARTMENT		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
OFF-SYS	HILLSBOROUGH	439476-2-58-01

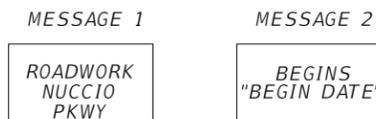
INTERSECTION DETAILS

SHEET NO.
14

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TEMPORARY TRAFFIC CONTROL PLAN NOTES

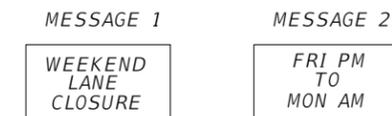
1. THE SUPERVISOR OR FOREMAN CONTROLLING THE WORK ON THE PROJECT MUST HAVE A WORK ZONE TRAFFIC CONTROL SAFETY CERTIFICATION OR TRAFFIC SUPERVISOR CERTIFICATION FROM THE FLORIDA DEPARTMENT OF TRANSPORTATION. THE CERTIFIED SUPERVISOR SHALL BE ON THE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION ACTIVITIES.
2. ALL EXISTING WARNING, GUIDE, AND REGULATORY SIGNS SHALL BE MAINTAINED AT ALL TIMES. SIGNS SHALL BE RELOCATED, REMOVED, OR COVERED FOR EACH TRAFFIC PATTERN PHASE, AS APPROVED BY THE ENGINEER.
3. ALL LANE TAPERS AND MAINTAINED LANE LINES ADJACENT TO CONSTRUCTION AREAS SHALL BE DELINEATED WITH TYPE 1 OR 2 BARRICADES, VERTICAL PANELS, TEMPORARY DRUMS OR TEMPORARY LOW PROFILE BARRIER AS APPROVED BY THE ENGINEER.
4. THE EXISTING SPEED LIMIT OF 40 MPH SHALL BE MAINTAINED AT ALL TIMES, UNLESS OTHERWISE NOTED IN THE PLANS.
5. AT THE DISCRETION OF THE THE ENGINEER, ANY TEMPORARY LANE CLOSURE CAUSING EXTENDED TRAFFIC CONGESTION (5 MINUTE DELAY) SHALL BE OPENED UNTIL TRAFFIC HAS RETURNED TO AN ACCEPTABLE FLOW AS DETERMINED BY THE ENGINEER.
6. PROVIDE A TEMPORARY TRAFFIC CONTROL PLAN, PREPARED BY A FDOT ADVANCED TRAFFIC CONTROL CERTIFIED PROFESSIONAL.
7. THE CITY OF TAMPA PARKING DIVISION SHALL BE NOTIFIED A MINIMUM OF 7 DAYS IN ADVANCE OF ANY PARKING SPACE CLOSURE. PHONE: (813) 274-8179
8. THE HILLSBOROUGH AREA REGIONAL TRANSIT AUTHORITY (HART) PROJECT MANAGER SHALL BE NOTIFIED A MINIMUM OF 7 DAYS IN ADVANCE OF PERFORMING ANY LANE CLOSURE OR DETOUR AS WELL AS ANY WORK AFFECTING HART BUS STOPS. PHONE: (813) 384-6438
EMAIL: RODRIGUEZD@GOHART.ORG
9. WHEN CONSTRUCTING FULL DEPTH PAVEMENT, MAINTAIN AN ACTIVE WORK ZONE AROUND DROP OFF HAZARDS UNTIL STRUCTURAL COURSE IS PLACED, OR USE TRAFFIC WALL AT NO ADDITIONAL COST.
10. THE CONSTRUCTOR IS ALLOWED TO CLOSE LANES AT ALL TIMES EXCEPT FOR GASPARILLA SPECIAL EVENTS. CONTRACTOR TO COORDINATE WITH THE CITY AT PRE CONSTRUCTION MEETINGS FOR SPECIFIC SPECIAL EVENTS DATES. NO LANE CLOSURE FROM 6:00 AM TO 11:00 AM AND FROM 2:30 PM TO 8:00 PM WITHIN 600' OF A SIGNALIZED INTERSECTION.
11. PORTABLE CHANGEABLE (VARIABLE) MESSAGE SIGNS (PCMS) SHALL BE PLACED 500 FT. IN ADVANCE OF THE WORK ZONE FOR A PERIOD OF SEVEN DAYS PRIOR TO THE FIRST DAY OF ROADWAY CONSTRUCTION. MESSAGES SHOULD READ:



TWO WEEKS PRIOR TO WEEKDAY LANE CLOSURES, THE MESSAGE FOR THE PCMS SHALL READ (UNLESS OTHERWISE DIRECTED BY THE ENGINEER):



TWO WEEKS PRIOR TO WEEKEND LANE CLOSURES, THE MESSAGE FOR THE PCMS SHALL READ (UNLESS OTHERWISE DIRECTED BY THE ENGINEER):



PHASE I NOTES:

THE INTENT OF THIS PHASE IS TO CONSTRUCT WIDENING, DRAINAGE, SIGNALIZATION AND ROADSIDE IMPROVEMENTS ALONG NUCCIO PKWY.

1. PLACE ADVANCE WARNING TRAFFIC CONTROL DEVICES AS SHOWN IN THE ADVANCED WARNING LAYOUT DETAIL AND AS SHOWN IN STANDARD PLANS INDEX 102-600.
2. USE STANDARD PLANS 102-613, 102-615, 102-660 TO CONSTRUCT THE PROPOSED DRAINAGE, CURB, SIDEWALK, DRIVEWAYS AND SIGNALIZATION. EXCEPT THE PROPOSED CYCLE TRACK SEPARATOR AND BICYCLE SIGNALS TO BE PLACED ON THE SEPARATOR.

PHASE II NOTES:

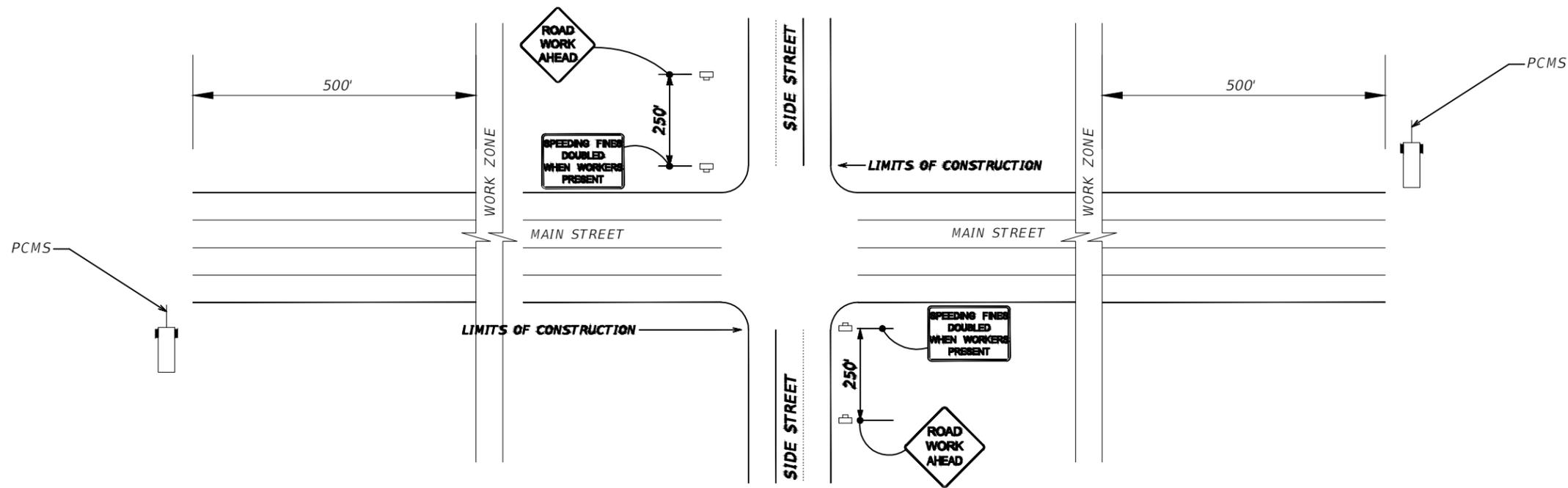
THE INTENT OF THIS PHASE IS TO MILL AND RESURFACE AND WIDEN THE ROADWAY AND CONSTRUCT THE CYCLE TRACK SEPARATOR.

1. USE STANDARD PLANS 102-613, 102-614, 102-615, 102-616 AND 102-617 TO MILL AND RESURFACE (EXCLUDING THE TOP LIFT OF FRICTION COURSE) THE PAVEMENT BETWEEN THE NORTHERN CURB LINE AND THE NORTHERN EDGE OF THE PROPOSED CYCLE TRACK SEPARATOR. THE PAVING OPERATION SHALL BE PERFORMED PER THE FINAL LANE CONFIGURATION. LEVEL THE JOINTS BETWEEN ALL UNMILLED PAVEMENT AND THE RESURFACED PAVEMENT TO ELIMINATE THE DIFFERENCE IN ELEVATION.
2. PLACE TEMPORARY LANE PAVEMENT MARKINGS IN THE EXISTING CONFIGURATION. PLACE CROSSWALK AND STOP BAR MARKINGS IN THE FINAL CONFIGURATION.

PERFORM THE FOLLOWING WORK IN TWO-BLOCK SEGMENTS AT A TIME:
3. PERMANENTLY CLOSE THE EXISTING OUTSIDE TRAVEL LANE AND ADJACENT PARKING LANE. PLACE TEMPORARY 6" WHITE PAVEMENT MARKINGS ALONG THE NORTHERN EDGE OF THE EXISTING CENTER LANE.
4. USE STANDARD PLANS 102-613, 102-614, 102-615, 102-616 AND 102-617 TO MILL THE PAVEMENT BETWEEN THE SOUTHERN CURB LINE AND THE EDGE OF THE PROPOSED CYCLE TRACK SEPARATOR. LEVEL THE JOINTS BETWEEN ALL UNMILLED PAVEMENT AND THE RESURFACED PAVEMENT TO ELIMINATE THE DIFFERENCE IN ELEVATION.
5. USE STANDARD PLAN 102-612 TO SAWCUT AND REMOVE THE EXISTING PAVEMENT AND ANY BRICK BASE IN THE AREA OF THE CYCLE TRACK SEPARATOR. CONSTRUCT THE PROPOSED SEPARATOR CURB LINE AND PLACE THE PROPOSED BICYCLE SIGNAL HEADS.
6. RESURFACE THE MILLED PAVEMENT USING STANDARD PLANS 102-613, 102-614, 102-615, 102-616 AND 102-617.
7. PLACE TEMPORARY CROSSWALK AND STOPBAR PAVEMENT MARKINGS IN THE FINAL CONFIGURATION.
8. USE STANDARD PLANS 102-613, 102-614, 102-615, 102-616 AND 102-617 TO PLACE THE FINAL LAYER OF FRICTION COURSE.
9. PLACE FINAL PAVEMENT MARKINGS (THERMO).
10. UNCOVER BICYCLE SIGNAL HEADS AND SHIFT BICYCLE TRAFFIC TO CYCLE TRACK.
11. UPON COMPLETION OF ALL OTHER CONSTRUCTION, REMOVE EXISTING PAVEMENT MARKINGS AS CALLED OUT ON PLANS AND INSTALL FINAL PAVEMENT MARKINGS AND SIGNS AND REMOVE TEMPORARY TRAFFIC CONTROL DEVICES.

REVISIONS				KISINGER CAMPO & ASSOCIATES CORP. 201 N FRANKLIN ST, SUITE 400, TAMPA, FL 33602 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 02317 ENGINEER OF RECORD: ALFREDO CELY, P.E. P.E. NO: 70653	CITY OF TAMPA TRANSPORTATION AND STORMWATER SERVICES DEPARTMENT			TRAFFIC CONTROL PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					OFF-SYS	HILLSBOROUGH	439476-2-58-01		15

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**TYPICAL SIDE STREET
NTS**

LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
WORK ZONE SIGN
PORTABLE CHANGEABLE (VARIABLE) MESSAGE SIGNS (SEE TTC GENERAL NOTES FOR MORE INFORMATION)

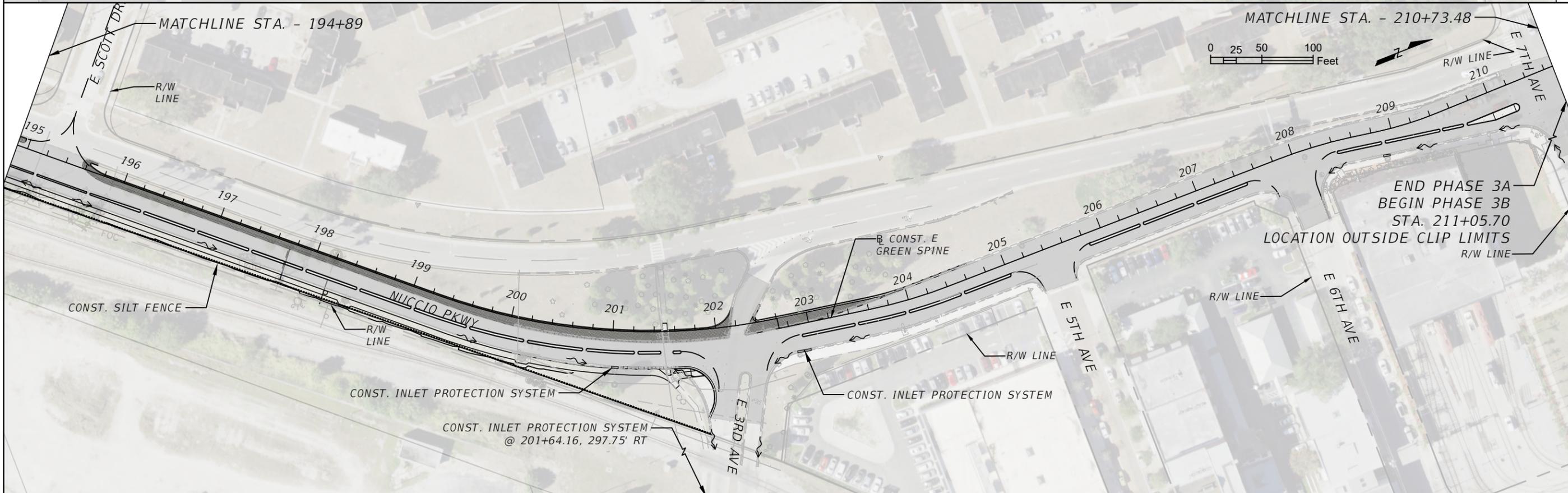
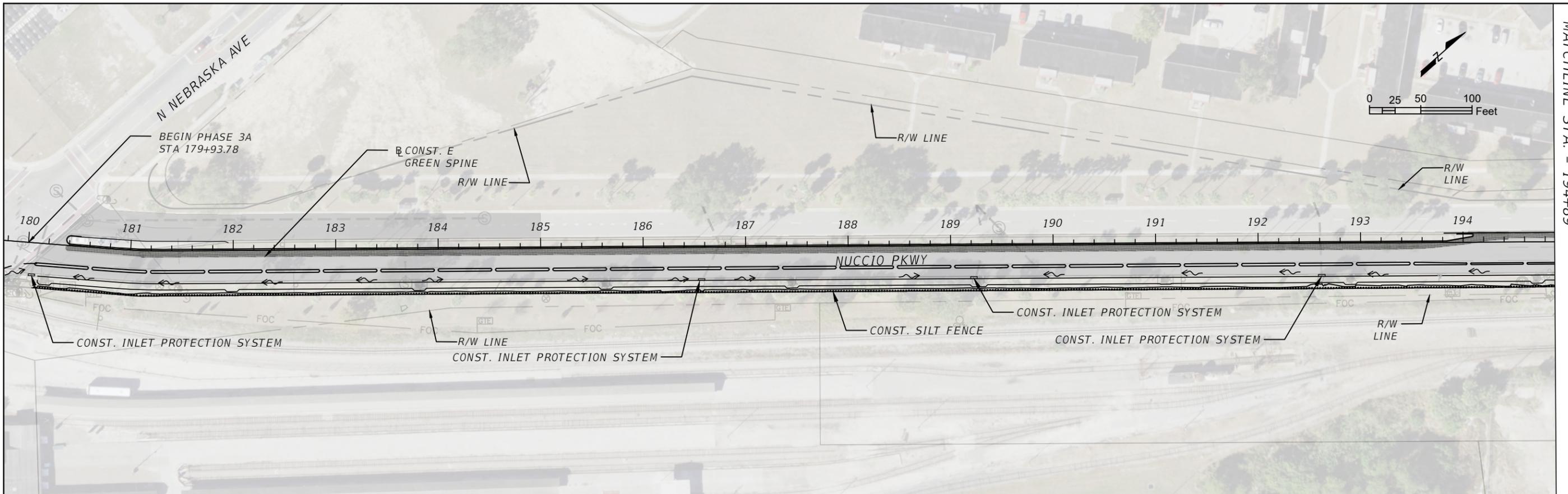
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KISINGER CAMPO & ASSOCIATES CORP.
 201 N FRANKLIN ST, SUITE 400,
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 P.E. NO: 70653

CITY OF TAMPA TRANSPORTATION AND STORMWATER SERVICES DEPARTMENT		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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**TTC PLAN
ADVANCED WARNING
LAYOUT**

SHEET NO.
16



MATCHLINE STA. - 194+89

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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 201 N FRANKLIN ST, SUITE 400,
 TAMPA, FL 33602
 FLORIDA CERTIFICATE OF AUTHORIZATION
 NO. 02317
 ENGINEER OF RECORD: CURT SPRUNGER ,P.E.
 P.E. NO: 66524

CITY OF TAMPA TRANSPORTATION AND STORMWATER SERVICES DEPARTMENT		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
OFF-SYS	HILLSBOROUGH	439476-2-58-01

EROSION CONTROL PLAN

SHEET NO.
17

I. SITE DESCRIPTION:

(1) NATURE OF CONSTRUCTION ACTIVITY:

ACTIVITIES ON THIS PROJECT INCLUDE BUT ARE NOT LIMITED TO CONSTRUCTION OF A BI-DIRECTIONAL CYCLE TRACK FROM NEBRASKA AVENUE TO E 7TH AVENUE. THE PROJECT LIMITS ARE ALONG THE EAST SIDE OF NUCCIO PARKWAY FROM NEBRASKA AVENUE TO 7TH AVENUE. THE CITY WILL CONSTRUCT A NEW BI-DIRECTIONAL CYCLE TRACK WITHIN THE PROJECT LIMITS. EXISTING ROADWAYS WILL BE SHARED WITH THE PROPOSED CYCLE TRACK. THE CYCLE TRACK WILL BE 8 TO 12 FEET WIDE SEPARATED FROM THE ROADWAY BY A TRAFFIC SEPARATOR. THE PROJECT IS IN HILLSBOROUGH COUNTY.

(2) INTENDED SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

- (a) IN THE CONTRACTOR'S SITE SPECIFIC EROSION AND SEDIMENT CONTROL PLAN, PREPARE A DETAILED CONSTRUCTION SCHEDULE TO INDICATE DATES OF MAJOR GRADING ACTIVITIES AND DETERMINE SEQUENCES OF TEMPORARY AND PERMANENT SOIL DISTURBING ACTIVITIES ON ALL PORTIONS OF THE PROJECT.
- (b) MODIFY THE PLAN OR MATERIALS TO ADAPT TO SEASONAL VARIATIONS, CONSTRUCTION ACTIVITY VARIATIONS, OR AS DIRECTED BY THE ENGINEER.
- (c) APPLICABLE EROSION AND SEDIMENT CONTROL DEVICES AND IMPLEMENTATION PROCEDURES ARE SUPPLIED IN THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEW MANUAL (E&SC MANUAL) LATEST EDITION.
- (d) PROVIDE IF ANY MODIFICATIONS OR ADDITIONAL CONTROLS ARE REQUIRED AND OBTAIN DEPLOYMENT SCHEDULES FOR THE IMPLEMENTATION OF ALL ADDITIONAL EROSION AND SEDIMENT CONTROL DEVICES FROM THE CONTRACTOR.

(3) LIST OF INTENDED ACTIVITIES

- (a) ALL EROSION AND SEDIMENT CONTROL DEVICES FOR EACH PHASE OF WORK ARE TO BE INSTALLED PRIOR TO BEGINNING WORK ON THAT PHASE.
- (b) COVER OR STABILIZE DISTURBED AREAS AS SOON AS POSSIBLE.
- (c) DO NOT DISTURB AN AREA UNTIL IT IS NECESSARY FOR CONSTRUCTION TO PROCEED.
- (d) TIME CONSTRUCTION ACTIVITIES TO LIMIT IMPACT FROM SEASONAL CLIMATE CHANGES OR WEATHER EVENTS.
- (e) DO NOT REMOVE PERIMETER CONTROLS UNTIL ALL UPSTREAM AREAS ARE FULLY STABILIZED AND PERMANENT VEGETATION IS ESTABLISHED.
- (f) PROVIDE POLLUTION CONTROL BY IMPLEMENTING DUST CONTROL DURING ALL PHASES OF CONSTRUCTION.

(4) PROJECT AREAS:

THE ESTIMATED TOTAL PROJECT AREA IS 4 ACRES. THE ESTIMATED AREA TO BE DISTURBED DURING CONSTRUCTION ACTIVITIES IS 1.5 ACRES.

(5) RUNOFF COEFFICIENTS BEFORE Cw (B), DURING Cw (D) AND AFTER Cw (A) CONSTRUCTION:

RUNOFF COEFFICIENT FOR GRASSED SHOULDERS ADJACENT TO ROADWAY: C=0.35
 IMPERVIOUS ROADWAYS AND PAVED SHOULDER: C=0.95
 DISTURBED AREAS, EXPOSED SOIL, ETC., DURING CONSTRUCTION: C=0.40

WEIGHTED RUNOFF COEFFICIENT:

BEFORE: Cw (B) = 0.67
 DURING: Cw (D) = VARIES BETWEEN 0.67 AND 0.82
 AFTER: Cw (A) = 0.67

THE RUNOFF COEFFICIENT DURING CONSTRUCTION, Cw (D), IS CALCULATED ASSUMING THAT THE MAXIMUM ALLOWABLE AREA OF SOIL IS DISTURBED DURING CONSTRUCTION AND THE REMAINING AMOUNT IS THE EXISTING IMPERVIOUS AND GRASSED SHOULDER AREAS.

(6) DESCRIPTION OF SOIL:

MAJOR SOIL GROUPS IN THE PROJECT LIMITS INCLUDE:

1. 77.5% URBAN LAND, 0 TO 2 PERCENT SLOPES (56)
2. 11.1% MYAKKA-URBAN LAND COMPLEX (32)
3. 4.9% IMMOKALEE-URBAN LAND COMPLEX (22)
4. 3.4% WATER (99)
5. 3.1% TAVARES-URBAN LAND COMPLEX, 0 TO 5 PERCENT SLOPES (55)

REFERENCE: USDA SOIL SURVEY OF HILLSBOROUGH COUNTY FLORIDA

(7) ESTIMATED DRAINAGE FLOW DIRECTION AND AVERAGE SLOPE OF DRAINAGE AREA FOR EACH OUTFALL:

(a) SITE MAP: INCLUDED WITH THESE SHEETS.
 DRAINAGE MAPS OR MAPS WITH APPROPRIATE CONTOURS: INCLUDED IN DRAINAGE DOCUMENTS.

(8) RECEIVING WATERS: OLD TAMPA BAY

THIS FACILITY DOES DISCHARGE TO WATERS LISTED ON THE EPA APPROVED FDEP VERIFIED LIST OR ADOPTED TMDL FOR IMPAIRMENT DUE TO TOAL SUSPENDED SOLID, TURBIDITY, NUTRIENTS, DISSOLVED OXYGEN OR FECAL COLIFORM.

(9) OUTFALL LOCATIONS:

RECEIVING WATER BODY	DRAINAGE AREA (AC)	LATITUDE	LONGITUDE
OLD TAMPA BAY	17.3	27°57'17.41"N	82°26'36.52"W

(10) WETLAND AND/OR SURFACE WATER IMPACTS ARE LIMITED TO THE AREAS DESCRIBED IN THE APPROVED PERMITS FOR THE PROJECT.

(11) DESCRIPTION OF STORMWATER MANAGEMENT: (EXISTING/PROPOSED)

- (a) EXISTING DRAINAGE FLOWS ARE TYPICALLY STORM SEWER SYSTEM. THE PROPOSED ROADWAY IMPROVEMENTS SHALL NOT MODIFY OR AFFECT THE EXISTING OFFSITE FLOW PATTERNS UNLESS SPECIFICALLY AUTHORIZED BY THE PERMITS.
- (b) OFFSITE RUNOFF SHOULD BE DIVERTED AWAY OR THROUGH THE CONSTRUCTION AREA, IF POSSIBLE. THIS ADDITIONAL FLOW, IF NOT DIVERTED, CAN ADD VOLUME AND SIZE TO STRUCTURAL PRACTICES, REQUIRING MORE FREQUENT MAINTENANCE AND LIMITING EFFECTIVENESS OF EROSION AND SEDIMENT CONTROLS.
- (c) LOCATION OF PERMANENT CONTROLS: THE STORMWATER SEWER SYSTEM IS THE PRIMARY PERMANENT STORMWATER MANAGEMENT CONTROL. THESE ARE SHOWN ON THE ROADWAY PLANS.
- (d) STORMWATER RUNOFF SHALL BE CONVEYED TO EITHER TEMPORARY SEDIMENT BASINS, CONTAINMENT SYSTEMS AND/OR TO PERMANENT STORMWATER MANAGEMENT FACILITIES (TREATMENT AND ATTENUATION PONDS). THE PROPOSED SEDIMENT BASINS, CONTAINMENT SYSTEMS AND/OR STORMWATER MANAGEMENT FACILITIES SHALL BE CONSTRUCTED DURING THE INITIAL PHASE OF CONSTRUCTION AND USED DURING CONSTRUCTION OF THE ROADWAY.
- (e) PREVENT UNAUTHORIZED MATERIALS FROM ENTERING WETLANDS, WATERWAYS, OTHER SURFACE WATERS OR WATERS OF THE U.S.

(12) STATE AND FEDERAL REGULATIONS:

SWFWMD PERMIT EXEMPTION FILE # 785609

II. CONTROLS:

SEDIMENT AND EROSION CONTROLS

(1) WATER QUALITY MONITORING:

- (a) WATER QUALITY MONITORING SHALL BE CONDUCTED IN ACCORDANCE WITH THE SPECIAL CONDITIONS OF ANY ENVIRONMENTAL PERMIT OR BY THE CONTRACTOR UPON THE OBSERVATION THAT WATER QUALITY STANDARDS MAY BE VIOLATED BY THE CONTRACTOR'S ACTIVITIES. MONITORING LOCATIONS MAY BE SPECIFIED IN THE ENVIRONMENTAL PERMIT OR MAY BE DESIGNATED BY THE CONTRACTOR AND APPROVED BY THE PROJECT ADMINISTRATOR.
- (b) MONITOR ANY ACTIVITIES FOR VIOLATION OF WATER QUALITY STANDARDS AS THEY RELATE TO TURBIDITY (NO GREATER THAN 29 NTU'S ABOVE BACKGROUND OR GREATER THAN 0 NTU'S ABOVE BACKGROUND FOR DIRECT DISCHARGES TO OFW'S).
- (c) IF WATER QUALITY STANDARDS ARE VIOLATED, CONSTRUCTION SHALL BE STOPPED IMMEDIATELY, THE ENVIRONMENTAL PERMIT CONDITIONS FOLLOWED AND EROSION AND SEDIMENT CONTROL DEVICES REEVALUATED AND APPROVED BY THE ENGINEER PRIOR TO ANY CONTINUATION OF ACTIVITY. MONITORING ACTIVITIES AND TURBIDITY READINGS SHALL BE RECORDED ON THE CONSTRUCTION INSPECTION REPORT AND CONTINUED UNTIL TURBIDITY READINGS FALL BELOW AN ACCEPTABLE LEVEL (LESS THAN 29 NTU'S ABOVE BACKGROUND OR LESS THAN 0 NTU'S ABOVE BACKGROUND FOR DIRECT DISCHARGES TO OFW'S).
- (d) WATER QUALITY MONITORING MAY BE CONDUCTED DURING ANY PHASE OF CONSTRUCTION AS DIRECTED BY THE PROJECT ENGINEER.

(2) STABILIZATION PRACTICES:

- (a) STABILIZATION MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO MAINTAINING, ESTABLISHING AND USING VEGETATION, APPLYING MULCHES, SODDING, SEEDING, BMP'S AND THE USE OF ROLLED EROSION CONTROL PRODUCTS. WHEN CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, SIDE SLOPES SHALL BE STABILIZED WITH PERFORMANCE SODDING OR SEEDING OR ANY OTHER APPROVED METHOD OF STABILIZATION INCLUDED IN THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEW MANUAL (E&SC MANUAL), LATEST EDITION.
- (b) STABILIZATION SHALL TAKE PLACE AS SOON AS PRACTICAL IN PORTIONS OF THE PROJECT WHERE CONSTRUCTION ACTIVITIES HAVE CEASED, BUT NO LATER THAN 7 DAYS AFTER ANY CONSTRUCTION ACTIVITY CEASES EITHER TEMPORARILY OR PERMANENTLY.
- (c) ANY TEMPORARY MATERIAL USED FOR POLLUTION OR EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT AND FINAL STABILIZATION OF THE PROJECT HAS BEEN ACHIEVED.

REVISIONS				KISINGER CAMPO & ASSOCIATES CORP. 201 N FRANKLIN ST, SUITE 400, TAMPA, FL 33602 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 02317 ENGINEER OF RECORD: CURT SPRUNGER ,P.E. P.E. NO: 66524	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			STORMWATER POLLUTION PREVENTION PLAN (1)	SHEET NO. 18
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
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(3) STRUCTURAL PRACTICES FOR EROSION AND SEDIMENT CONTROL

(a) ROLLED EROSION CONTROL PRODUCTS (ARTIFICIAL COVERINGS)

PURPOSE: TO PROTECT DISTURBED SLOPE SURFACES AGAINST EROSION DUE TO RAINFALL OR FLOWING WATER.

- (1) USED FOR PAUSES IN CONSTRUCTION DUE TO INCLEMENT WEATHER OR OTHER CIRCUMSTANCES. COULD INCLUDE NATURAL OR SYNTHETIC FIBER MATS, PLASTIC SHEETING OR NETS.
- (2) USED FOR EROSION CONTROL THAT FACILITATES PLANT GROWTH WHILE PERMANENT GRASS IS ESTABLISHED. COULD INCLUDE BIODEGRADABLE EROSION CONTROL BLANKETS INSTALLED ON A SEEDED AREA, ON FILL SLOPES OR IN DITCHES.
- (3) USED TO STABILIZE DRAINAGE CHANNELS. CONSULT E&SC MANUAL TO DETERMINE CORRECT PRODUCT TYPE FOR CHANNEL STABILIZATION.

(b) SEDIMENT BARRIERS (TEMPORARY CONSTRUCTION SITE BMP'S)

PURPOSE: SEDIMENT BARRIERS EITHER OBSTRUCT FLOW OR PREVENT THE PASSAGE OF WATER WHILE CONSTRUCTION ACTIVITIES OCCUR. SMALLER SEDIMENT BARRIERS MAY FUNCTION AS A SMALL SEDIMENT CONTAINMENT SYSTEM OR AS A METHOD TO REDUCE FLOW VELOCITY.

- (1) THESE CONSTRUCTION BMP'S CAN INCLUDE SYNTHETIC BALES, STAKED SILT FENCE, TURBIDITY BARRIER, STORM SEWER INLET BARRIERS, ROCK BARRIERS, GEOSYNTHETIC BARRIERS, ETC.
- (2) APPROPRIATE LOCATIONS INCLUDE SITE PERIMETER, BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION, BELOW THE TOE OF EXPOSED AND ERODIBLE SLOPES, ALONG THE TOE OF STREAM AND CHANNEL BANKS, AROUND DRAINS AND INLETS LOCATED IN LOWPOINTS OR THE DOWNSTREAM EDGE OF AREAS UNDERGOING VERTICAL OR BOX CULVERT CONSTRUCTION ACTIVITIES.
- (3) INAPPROPRIATE LOCATIONS FOR THESE SAME MEASURES INCLUDE PARALLEL TO A HILLSIDE CONTOUR, IN CHANNELS WITH CONCENTRATED FLOW (UNLESS PROPERLY REINFORCED), UPSTREAM OR DOWNSTREAM OF CULVERTS WITH CONCENTRATED FLOW, IN FRONT OF OR AROUND INLETS ON A GRADE WITH CONCENTRATED FLOW OR IN FLOWING STREAMS.

(c) INLET PROTECTION SYSTEM

PURPOSE: ANY OF A NUMBER OF SEDIMENT BARRIERS THAT EITHER PREVENT SEDIMENT FROM ENTERING AN INLET OR TRAP THE SEDIMENTS ONCE THEY ENTER THE INLET.

- (1) TYPICAL APPLICATIONS INCLUDE ROCK BARRIERS, FRAME AND FILTER BARRIERS, CURB INLET "SUMP" BARRIER, CURB INLET DIVERSION BERM, CURB AND GUTTER SEDIMENT CONTAINMENT SYSTEM OR CURB INLET INSET.
- (2) SHOULD BE INSTALLED ONLY WHEN CONSTRUCTION ACTIVITIES ARE ON-GOING AND ONLY WHERE SUMP CONDITIONS EXIST.

III. MAINTENANCE:

MAINTAIN AND REPAIR ALL EROSION AND SEDIMENT CONTROL DEVICES AND REMOVE - EROSION AND SEDIMENT CONTROL DEVICES WHEN NOTICE OF TERMINATION IS MAILED AND PROPERLY DISPOSE OF SEDIMENT BUILDUP THROUGH THE LIFE OF THE INSTALLED EROSION AND SEDIMENT CONTROL DEVICES.

- (1) SYNTHETIC BALES SHALL BE MAINTAINED TO ENSURE THEIR USEFULNESS AND NOT BLOCK OR IMPEDE STORMWATER FLOW OR DRAINAGE.
- (2) SOIL TRACKING PREVENTION DEVICES SHALL BE MAINTAINED TO PREVENT CLOGGING OF ROCK BEDDING WHICH MAY IMPEDE THE USEFULNESS OF THE STRUCTURE.

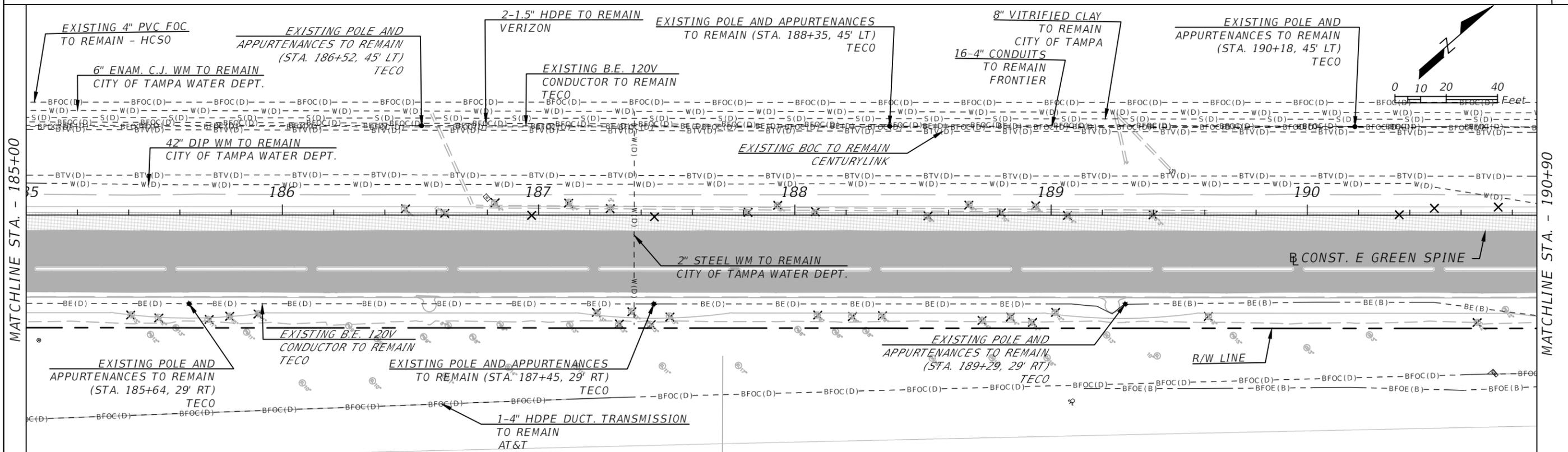
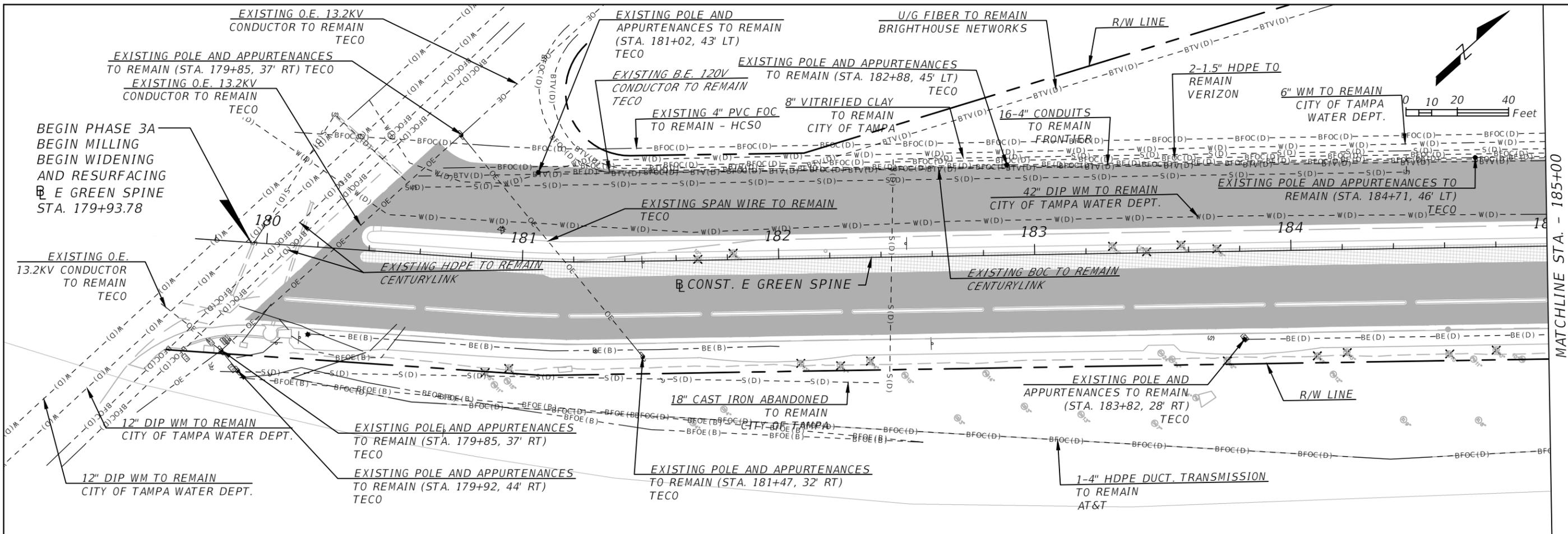
IV. INSPECTION:

- (1) ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSPECTED DAILY BY CONTRACTOR'S PERSONNEL WHO ARE F.D.E.P. CERTIFIED STORMWATER MANAGEMENT INSPECTORS.

V. TRACKING AND REPORTING:

- (1) SUBMIT A WEEKLY REPORT TO THE DEPARTMENT DOCUMENTING THE DAILY INSPECTIONS AND MAINTENANCE OR REPAIRS TO THE EROSION AND SEDIMENT CONTROL DEVICES. MAINTAIN ALL REQUIRED REPORTS AND COMPLETE ALL SWPPP INSPECTION FORMS.
- (2) PREPARATION OF ALL THE CONTRACTOR'S REPORTS OF INSPECTION, MAINTENANCE AND REPAIRS REQUIRED FOR THE CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION, SHALL BE INCLUDED IN THE INDIVIDUAL COSTS OF THE EROSION AND SEDIMENT CONTROL DEVICES OR LUMP SUM COST OF THE PROJECT.
- (3) USE THE SWPPP CONSTRUCTION INSPECTION REPORT FORM # 650-040-03, FOR DAILY INSPECTIONS.

REVISIONS				KISINGER CAMPO & ASSOCIATES CORP. 201 N FRANKLIN ST, SUITE 400, TAMPA, FL 33602 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 02317 ENGINEER OF RECORD: CURT SPRUNGER ,P.E. P.E. NO: 66524	CITY OF TAMPA TRANSPORTATION AND STORMWATER SERVICES DEPARTMENT			STORMWATER POLLUTION PREVENTION PLAN (2)	SHEET NO. 19
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					OFF-SYS	HILLSBOROUGH	439476-2-58-01		



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

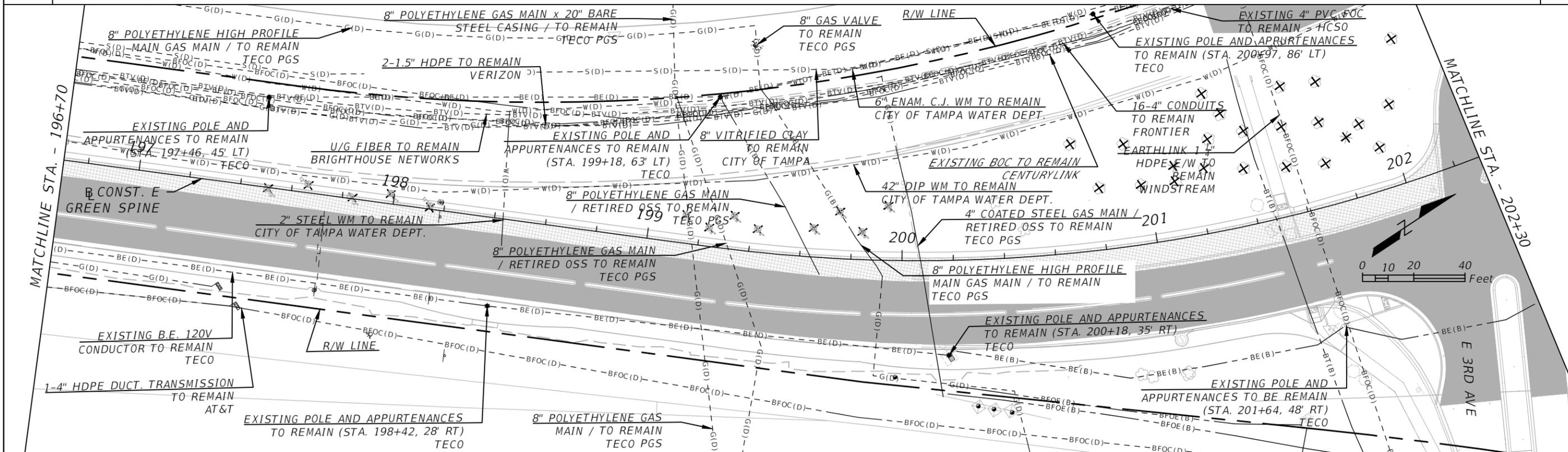
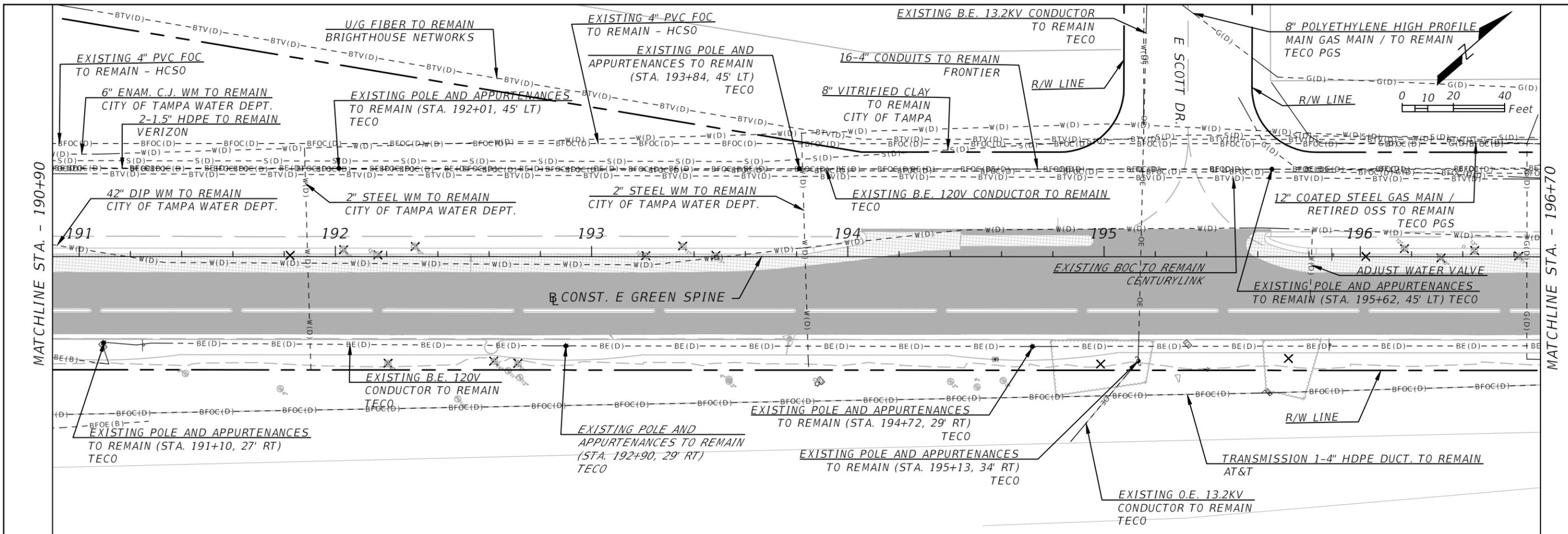
KISINGER CAMPO & ASSOCIATES CORP.
 201 N FRANKLIN ST, SUITE 400,
 TAMPA, FL 33602
 FLORIDA CERTIFICATE OF AUTHORIZATION
 NO. 02317
 ENGINEER OF RECORD: ALFREDO CELY, P.E.
 P.E. NO: 70653

CITY OF TAMPA TRANSPORTATION AND STORMWATER SERVICES DEPARTMENT		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
OFF-SYS	HILLSBOROUGH	439476-2-58-01

UTILITY ADJUSTMENT SHEETS -
 (1)

SHEET NO.
 20

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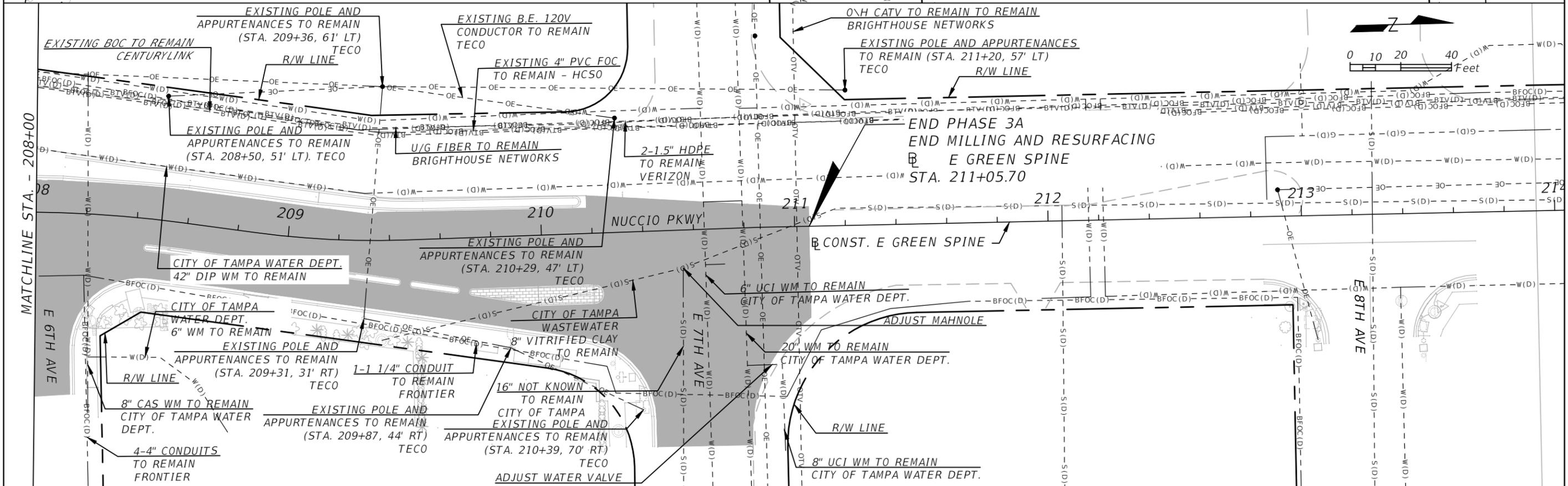
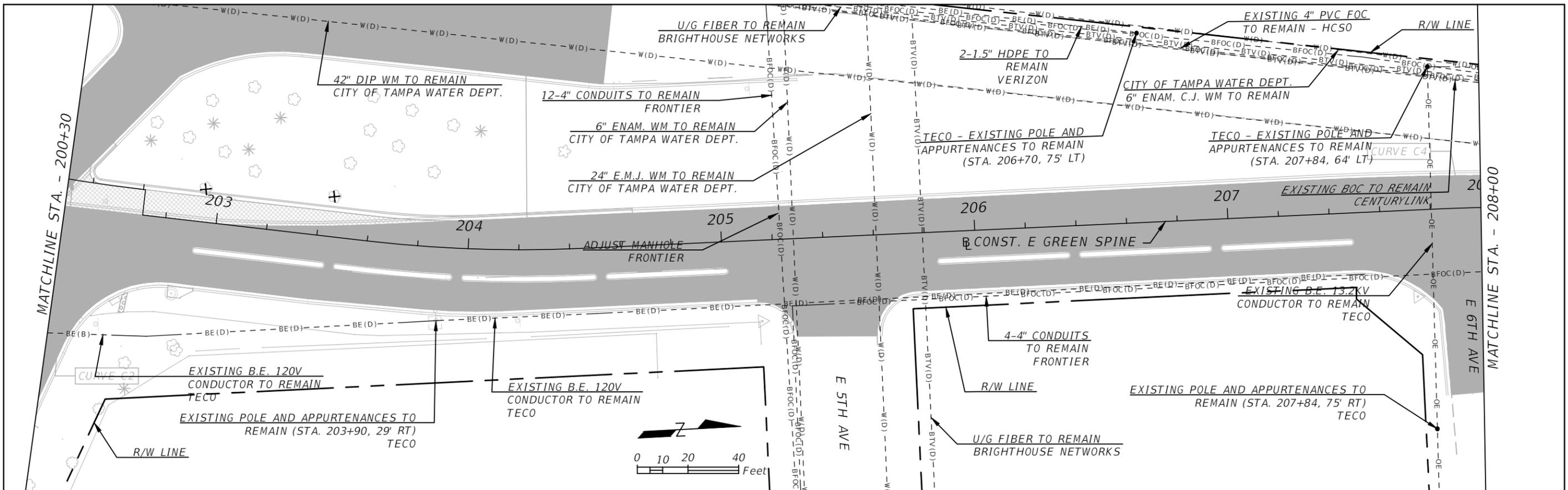
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KISINGER CAMPO & ASSOCIATES CORP.
 201 N FRANKLIN ST, SUITE 400,
 TAMPA, FL 33602
 FLORIDA CERTIFICATE OF AUTHORIZATION
 NO. 02317
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CITY OF TAMPA TRANSPORTATION AND STORMWATER SERVICES DEPARTMENT		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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UTILITY ADJUSTMENT SHEETS -
 (2)
 SHEET NO. 21

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REVISIONS		REVISIONS		KISINGER CAMPO & ASSOCIATES CORP. 201 N FRANKLIN ST, SUITE 400, TAMPA, FL 33602 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 02317 ENGINEER OF RECORD: ALFREDO CELY, P.E. P.E. NO: 70653	CITY OF TAMPA TRANSPORTATION AND STORMWATER SERVICES DEPARTMENT			UTILITY ADJUSTMENT SHEETS - (3)	SHEET NO. 22
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					OFF-SYS	HILLSBOROUGH	439476-2-58-01		

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**CITY OF TAMPA TRANSPORTATION
AND STORMWATER SERVICES
DEPARTMENT**

CONTRACT PLANS

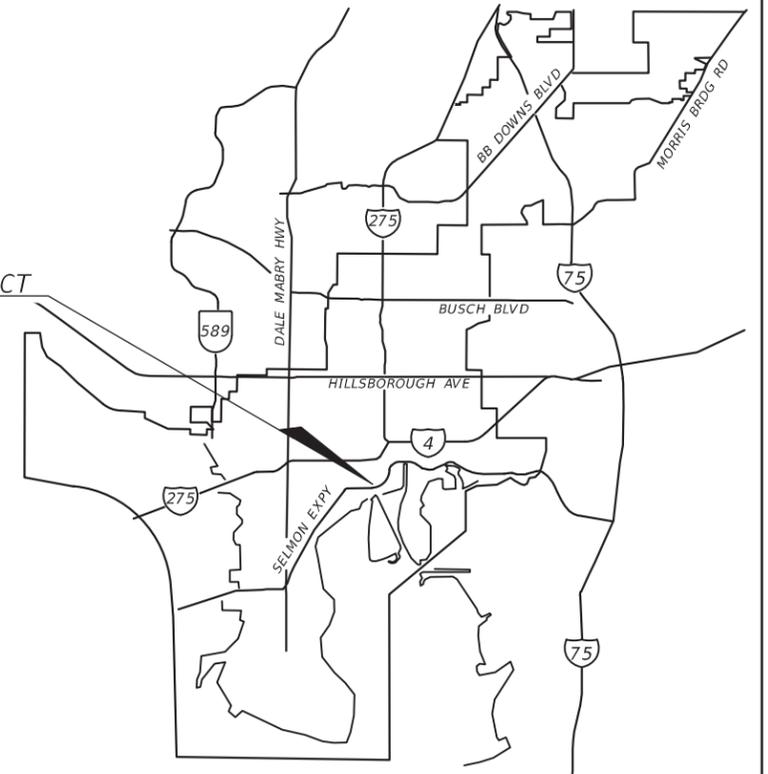
FINANCIAL PROJECT ID 439476-2-58-01

(FEDERAL FUNDS)

E/W GREEN SPINE CYCLE TRACK - PH 3A FROM
N NEBRASKA AVENUE TO 7TH AVE.
BIKE PATH/TRAIL

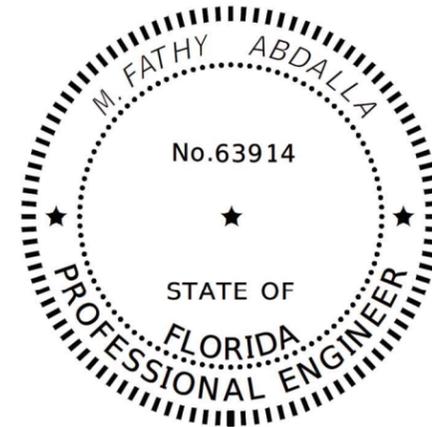
SIGNING AND PAVEMENT MARKING PLANS

LOCATION OF PROJECT



INDEX OF SIGNING AND PAVEMENT MARKING PLANS

SHEET NO.	SHEET DESCRIPTION
S-1	KEY SHEET
S-2	TABULATION OF QUANTITIES
S-3	SIGNING AND PAVEMENT MARKING DETAILS
S-4	GENERAL NOTES
S-5 THRU S-10	SIGNING AND MARKING PLANS



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

Mohamed F Abdalla

2020.03.13 17:00:46 -04'00'

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

KISINGER CAMPO & ASSOCIATES CORP.
201 N FRANKLIN ST, SUITE 400,
TAMPA, FL 33602
CERTIFICATE OF AUTHORIZATION 02317
FATHY ABDALLA, P.E. NO. 63914

CITY OF TAMPA PROJECT MANAGER:

NINA S. MABILLEAU E.I.

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
-----	2020	S-1

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TABULATION OF QUANTITIES

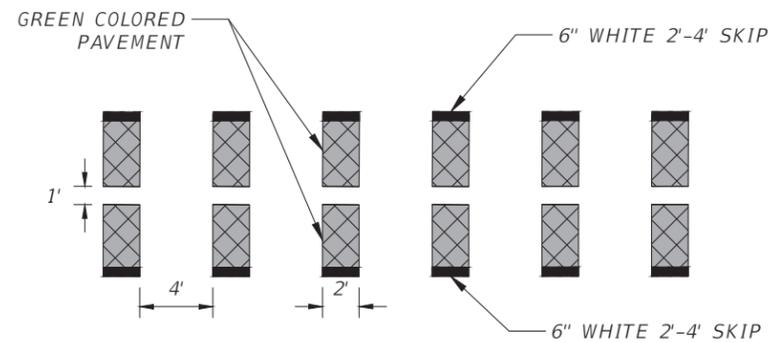
PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			NUCCIO PARKWAY FROM NEBRASKA TO 7TH AVENUE																	
			S-5		S-6		S-7		S-8		S-9		S-10							
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
523-1-3	PATTERNED PAVEMENT, INCLUDING GREEN BIKE LANES	SY	26					28		40							94		94	
654-2-21	RECTANGULAR RAPID FLASHING BEACON, FURNISH & INSTALL- SOLAR POWERED, COMPLETE SIGN ASSEMBLY- SINGLE DIRECTION	AS						4									4		4	
700-1-11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	9			2		8		4			1				24		24	
700-1-12	SINGLE POST SIGN, F&I GROUND MOUNT, 12-20 SF	AS	1					3		2							6		6	
700-1-18	SINGLE POST SIGN, F&I GROUND MOUNT, IN-STREET FLEXIBLE POST SIGN	AS	1					2		4			1				8		8	
700-1-50	SINGLE POST SIGN, RELOCATE	AS	1			2											3		3	
700-1-60	SINGLE POST SIGN, REMOVE	AS	5			2		3		2							12		12	
700-3-502	SIGN PANEL, RELOCATE, UP TO 12-20 SF	AS						2									2		2	
705-11-1	DELINEATOR, FLEXIBLE TUBULAR	EA				1											1		1	
705-11-3	DELINEATOR, FLEXIBLE HIGH VISABILITY MEDIAN	EA	1			1		3		4			2				11		11	
710-90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	LS																		1
*	RAISED PAVEMENT MARKER, TYPE B	EA	58		15		42	37		14		27					193		193	
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM	0.203		0.112		0.165	0.196		0.083		0.060					1		0.819	
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR INTERCHANGE AND URBAN ISLAND, 8"	GM	0		0.112			0.042		0.083		0.06					0		0.384	
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	LF						333		155		318					806		806	
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR DIAGONAL OR CHEVRON, 18"	LF				8											8		8	
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	LF	45					515		119		366					1045		1045	
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP, 10-30 OR 3-9 SKIP, 6" WIDE	GM	0.087		0.112		0.157	0.076		0.083										
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP, 10-30 OR 3-9 SKIP, 12" WIDE	GM	0.057					0.07									0.127		0.127	
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-4 DOTTED GUIDELINE, 6"	GM	0.076					0.074		0.103							0.253		0.253	
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, MESSAGE OR SYMBOL	EA	6					14		9							29		29	
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	EA	6			1		10		8		5.00					30		30	
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM	0.178		0.112		0.165	0.107		0.102							0.664		0.664	
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID FOR DIAGONAL OR CHEVRON, 18"	LF				8											8		8	
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SKIP, 6"	GM	0.094		0.112		0.157	0.107		0.083		0.024					0.577		0.577	
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, 2-4 DOTTED GUIDELINE/6-10 DOTTED EXTENSION, 6"	GM				0.016											0.016		0.016	
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, ISLAND NOSE	SF	26			15		14		14		30					99		99	
711-11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF						279		155		318					752		752	
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF	45					275		119		366					805		805	
711-11-141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 GAP EXTENSION, 6"	GM						0.074		0.103							0.177		0.177	
711-11-160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE OR SYMBOL	EA	4					10		1		1					16		16	
711-11-170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA	6			1		10		8		5					30		30	
711-11-224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF				8											8		8	
711-11-241	THERMOPLASTIC, STANDARD, YELLOW, 2-4 DOTTED GUIDE LINE, 6"	GM																		
711-14-125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF						515				366					881		881	
711-14-160	THERMOPLASTIC, PREFORMED, WHITE, SYMBOL (BIKE)	EA	2					4		8		2					16		16	
711-16-101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	GM	0.203		0.112		0.165	0.196		0.083		0.060					0.819		0.819	
711-16-102	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 8"	GM						0.042									0.042		0.042	
711-16-131	THERMOPLASTIC, OTHER SURFACES, WHITE, SKIP, 6",10-30 SKIP OR 3-9 LANE DROP	GM	0.087		0.112		0.157	0.070		0.083							0.509		0.509	
711-16-133	THERMOPLASTIC, OTHER SURFACES, WHITE, SKIP, 12", 10-30 SKIP OR 3-9 LANE DROP	GM	0.057					0.070									0.127		0.127	
711-16-201	THERMOPLASTIC, STANDARD OTHER SURFACES, YELLOW, SOLID, 6"	GM	0.178		0.112		0.165	0.107		0.083		0.02					0.669		0.669	
711-11-241	THERMOPLASTIC, STANDARD, YELLOW, 2-4 DOTTED GUIDE LINE /6-10 DOTTED EXTENSION LINE, 6"	GM	0.094		0.112		0.157	0.090		0.030		0.020					0.503		0.503	

* THESE QUANTITIES ARE PAID FOR UNDER PAINTED PAVEMENT MARKINGS (FINAL SURFACE), LUMP SUM - ITEM NO. 710-90. THE QUANTITIES SHOWN ARE FOR ONE APPLICATION; SEE SPECIFICATION 710 FOR THE NUMBER OF APPLICATIONS REQUIRED.

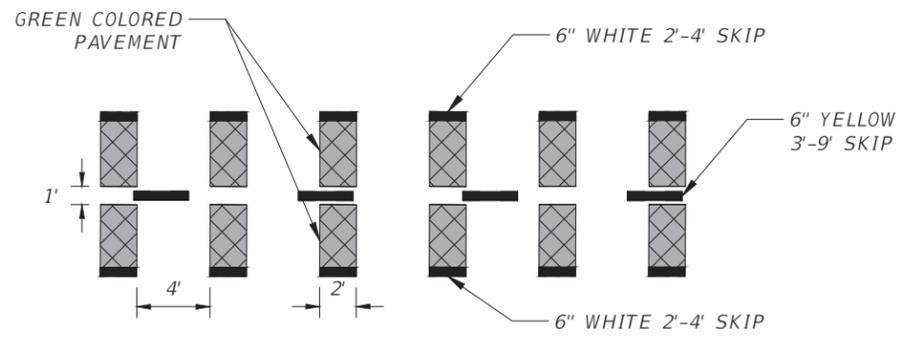
REVISIONS				KISINGER CAMPO & ASSOCIATES CORP. 201 N FRANKLIN ST, SUITE 400, TAMPA, FL 33602 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 02317 ENGINEER OF RECORD: M. FATHY ABDALLA, P.E. P.E. NO: 63914	CITY OF TAMPA TRANSPORTATION AND STORMWATER SERVICES DEPARTMENT			SHEET NO. S-2
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					OFF-SYS	HILLSBOROUGH	439476-2-58-01	

TABULATION OF QUANTITIES

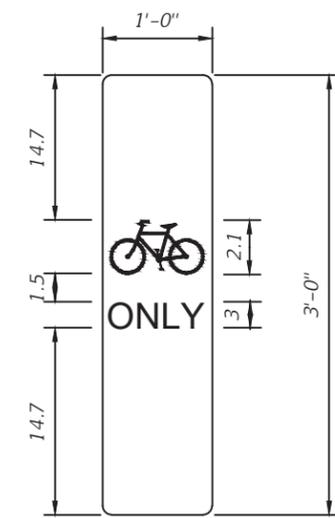
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TYPICAL INTERSECTION BIKE CROSSING DETAIL (NTS)



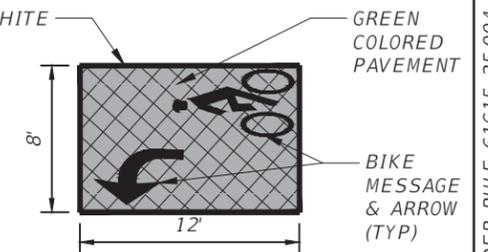
TYPICAL DRIVEWAY BIKE CROSSING DETAIL (NTS)



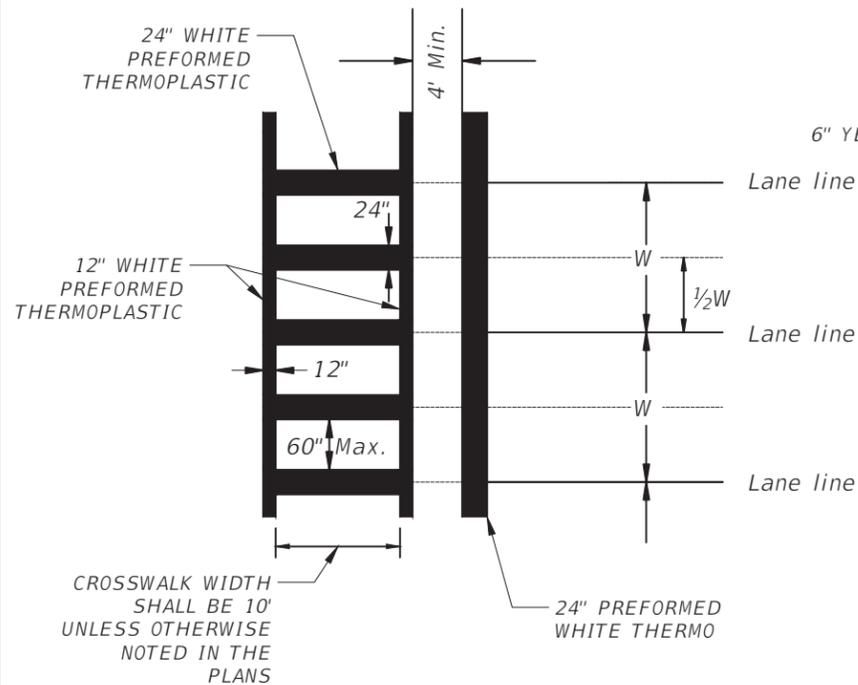
SIGN GM-1 "BIKE ONLY" SYMBOL SIGN DETAIL (NTS)

FABRICATE SPECIAL 12"X36" DOUBLE SIDED "BIKE ONLY" SYMBOL SIGN ON REFLECTING SHEETING AND AFFIX IT TO THE REFLECTIVE SHEETING AREA ON THE FACE OF THE FLEXIBLE VERTICAL PANEL. SIGN PANEL SHALL BE WHITE SIGN WITH BLACK LEGEND.

ALL COSTS ASSOCIATED WITH THE FABRICATION AND INSTALLATION OF THIS SIGN AND MOUNTING SHALL BE INCLUDED IN PAY ITEM 700-1-18.



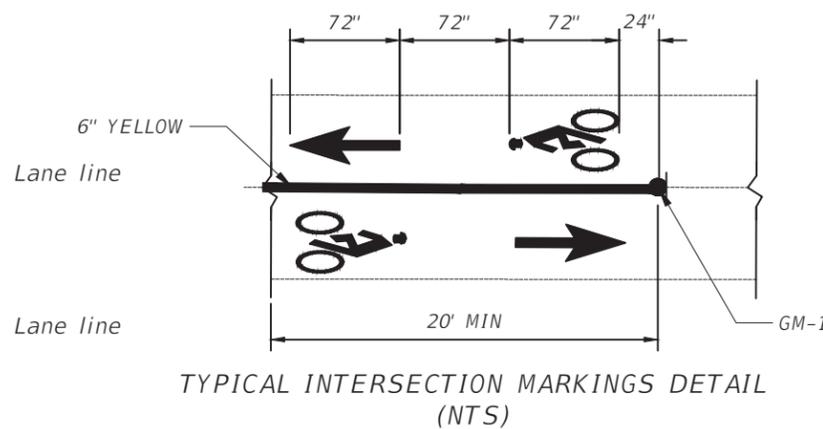
TYPICAL 2-STAGE BIKE BOX DETAIL (NTS)



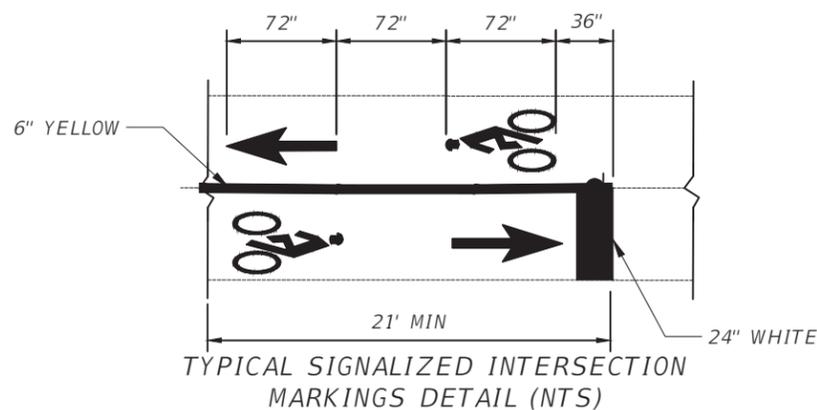
TYPICAL CROSSWALK DETAIL (NTS)



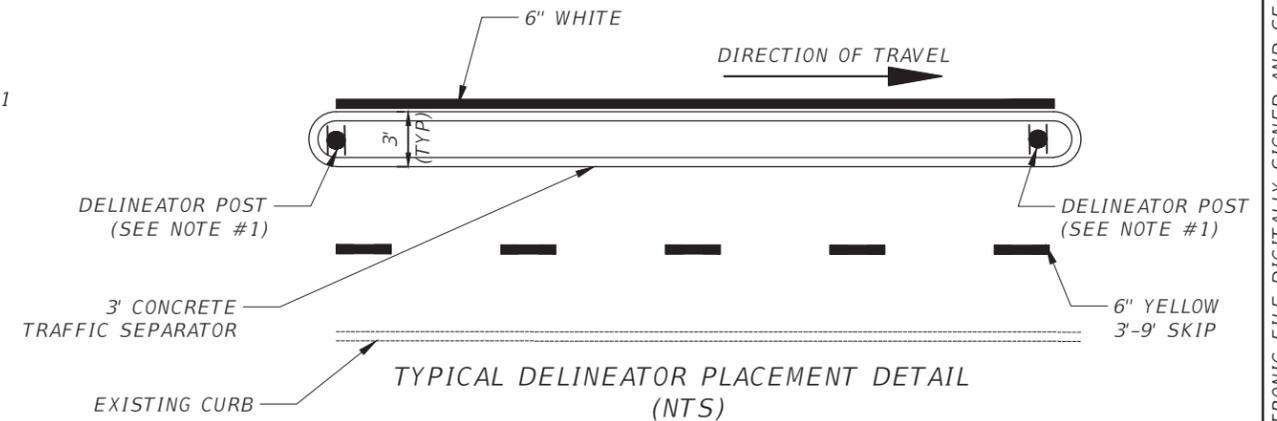
PEDESTRIAN MARKING DETAIL (NTS)



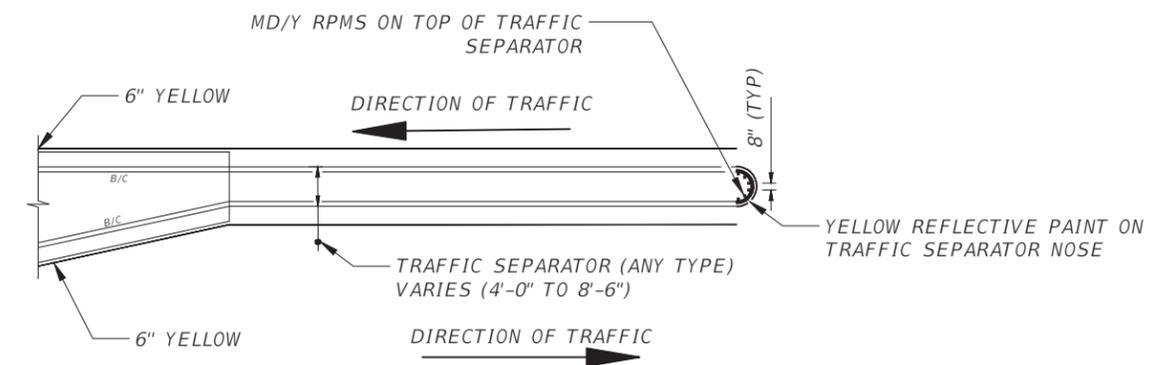
TYPICAL INTERSECTION MARKINGS DETAIL (NTS)



TYPICAL SIGNALIZED INTERSECTION MARKINGS DETAIL (NTS)



TYPICAL DELINEATOR PLACEMENT DETAIL (NTS)



RPM PLACEMENT AT TRAFFIC SEPARATORS DETAIL (NTS)

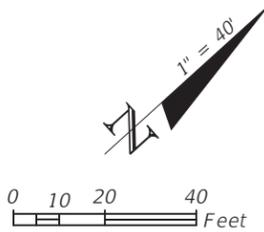
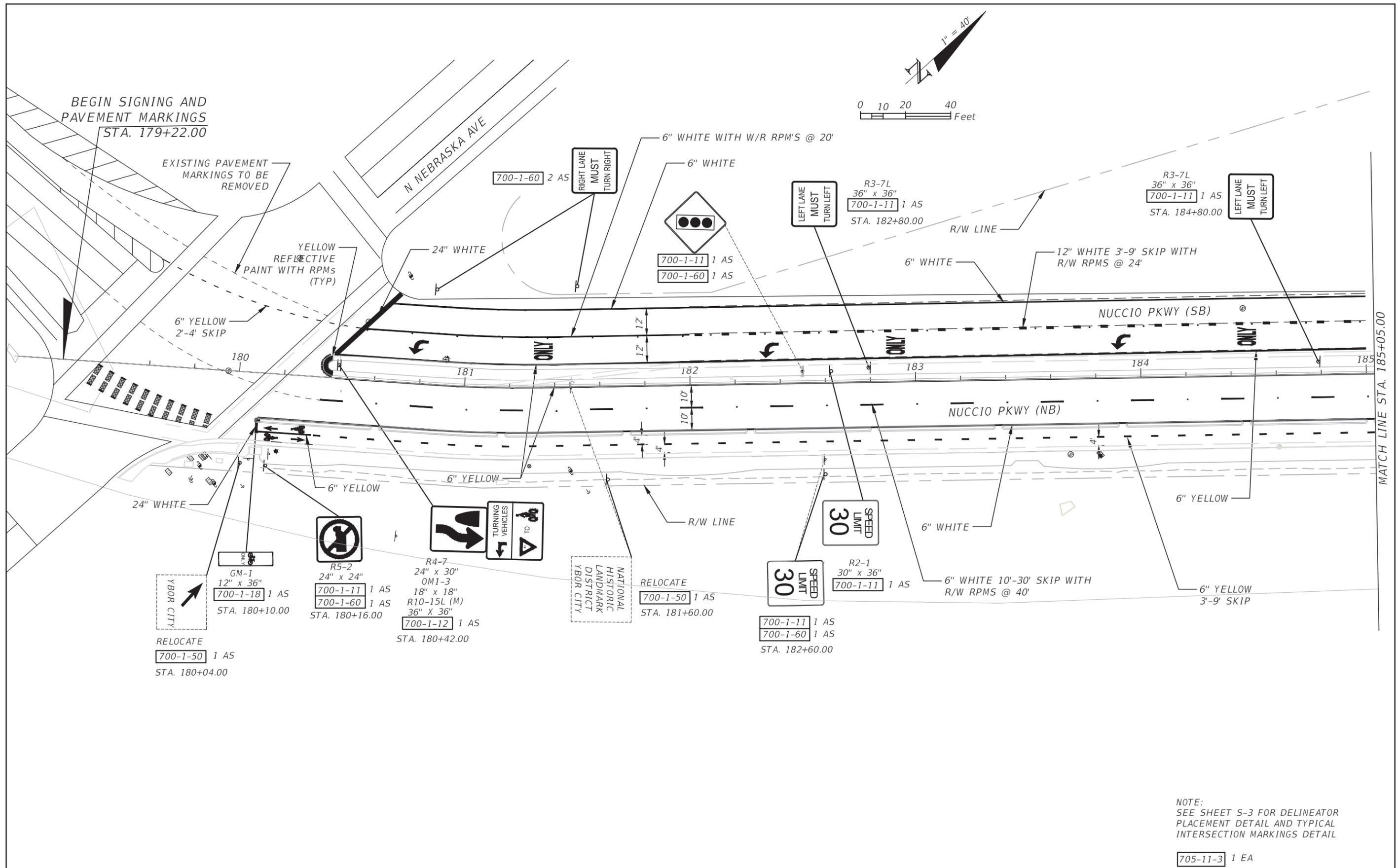
REVISIONS				KISINGER CAMPO & ASSOCIATES CORP. 201 N FRANKLIN ST, SUITE 400, TAMPA, FL 33602 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 02317 ENGINEER OF RECORD: M. FATHY ABDALLA, P.E. P.E. NO: 63914	CITY OF TAMPA TRANSPORTATION AND STORMWATER SERVICES DEPARTMENT			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					OFF-SYS	HILLSBOROUGH	439476-2-58-01	S-3

GENERAL NOTES

1. USE YELLOW RETRO-REFLECTIVE SHEETING ON BOTH SIDES OF THE DELINEATOR. INSTALL THE POST SO THAT THE TOP IS 4' ABOVE THE GRADE AT THE EDGE OF THE PAVEMENT.
2. ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE LABELED IN THE PLANS.
3. ALL PEDESTRIAN/BICYCLE WARNING SHALL BE IN ACCORDANCE WITH THE MUTCD, SECT. 1A-12, COLOR CODE "F"-FLUORESCENT YELLOW-GREEN.
4. PAVEMENT MARKINGS ON ASPHALT PAVEMENT SHALL BE STANDARD THERMOPLASTIC EXCEPT FOR BICYCLE MARKINGS AND SPECIAL EMPHASIS CROSSWALKS. USE PREFORMED THERMOPLASTIC FOR BICYCLE MARKINGS AND SPECIAL EMPHASIS CROSSWALKS.
5. UNLESS OTHERWISE NOTED ON PLAN SHEETS, ALL PROPOSED CROSSWALKS ACROSS MAIN STREETS SHALL BE 10' IN WIDTH AND ALL CROSSWALKS ACROSS SIDE STREETS SHALL BE 6' IN WIDTH. MEASUREMENTS SHALL BE FROM INSIDE TO INSIDE OF 12" STRIPES.
6. PAY ITEM FOOT NOTE
710-90 SHALL INCLUDE PAVEMENT MARKINGS APPLICATIONS NEEDED BEFORE APPLYING THE THERMOPLASTIC APPLICATION.
7. ALL BRICK STREETS AND GRANITE CURBS SHALL BE RETAINED AND PRESERVED IN PLACE.
8. ALL PROPOSED SIGN POST, SIGNALS PEDESTRIAN POLES AND ATTACHMENTS SHALL BE BY CODED BLACK COLOR MATCHING EXISTING
9. A FLUORESCENT YELLOW-GREEN BACKGROUND SHALL BE USED FOR PEDESTRIAN AND BICYCLES WARNING SIGNS

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REVISIONS				KISINGER CAMPO & ASSOCIATES CORP. 201 N FRANKLIN ST, SUITE 400, TAMPA, FL 33602 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 02317 ENGINEER OF RECORD: M. FATHY ABDALLA, P.E. P.E. NO: 63914	CITY OF TAMPA TRANSPORTATION AND STORMWATER SERVICES DEPARTMENT			<i>SIGNING & PAVEMENT MARKING DETAILS</i>	SHEET NO. S-4
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					OFF-SYS	HILLSBOROUGH	439476-2-58-01		

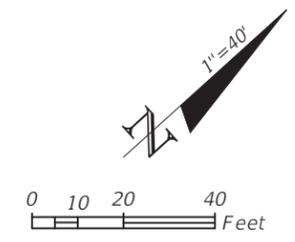


NOTE:
SEE SHEET S-3 FOR DELINEATOR
PLACEMENT DETAIL AND TYPICAL
INTERSECTION MARKINGS DETAIL

705-11-3 1 EA

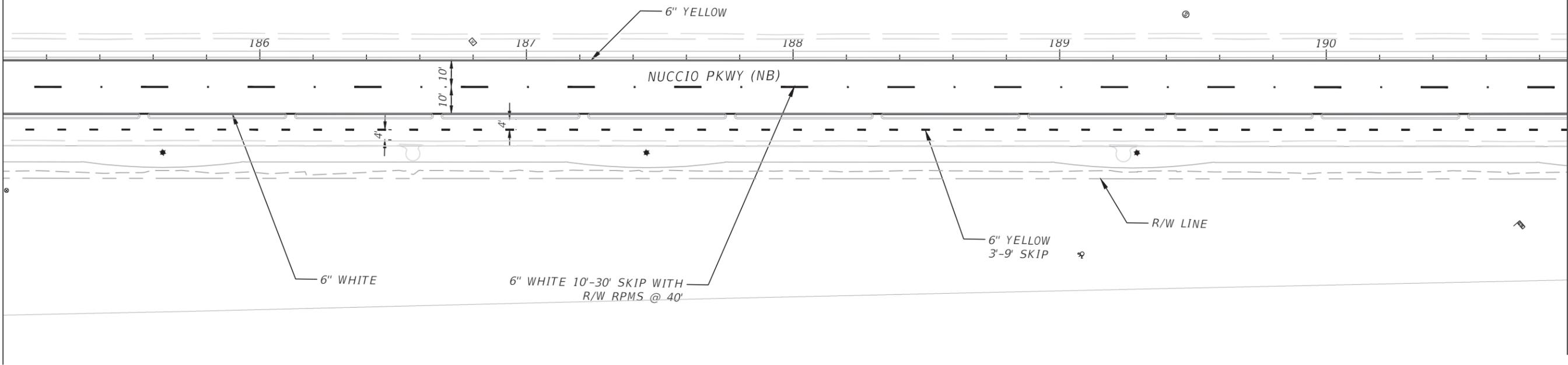
THE OFFICIAL RECORD OF THIS DRAWING IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-25.004, F.A.C.

REVISIONS				KISINGER CAMPO & ASSOCIATES CORP. 201 N FRANKLIN ST, SUITE 400, TAMPA, FL 33602 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 02317 ENGINEER OF RECORD: M. FATHY ABDALLA, P.E. P.E. NO: 63914	CITY OF TAMPA TRANSPORTATION AND STORMWATER SERVICES DEPARTMENT			SHEET NO. S-5
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					OFF-SYS	HILLSBOROUGH	439476-2-58-01	



MATCH LINE STA. 185+05.00

MATCH LINE STA. 190+90.00



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

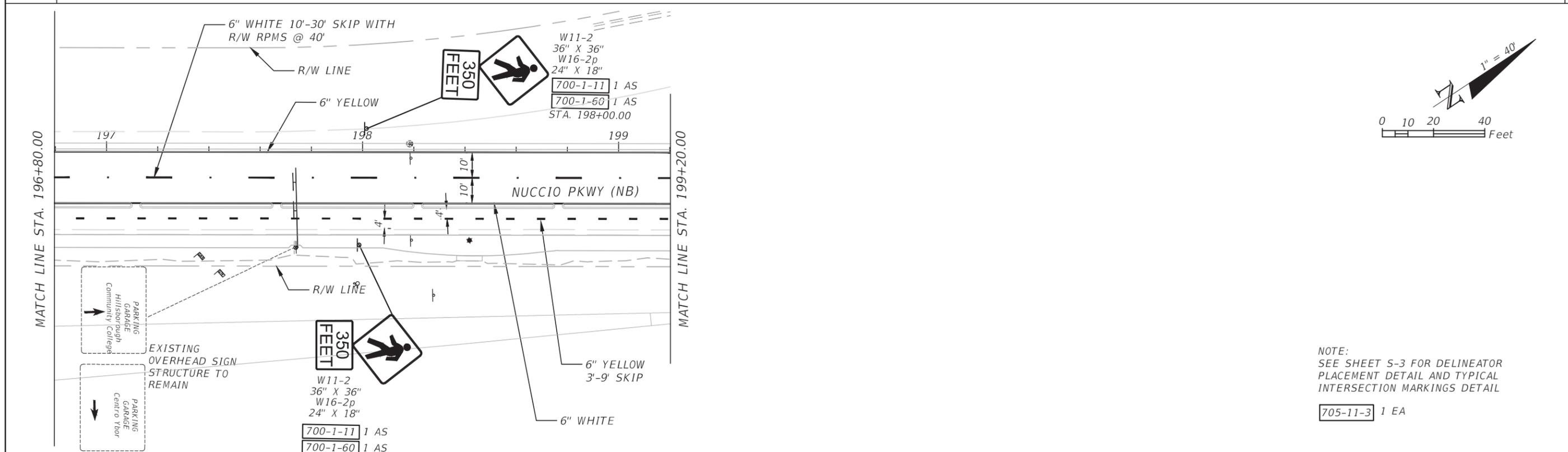
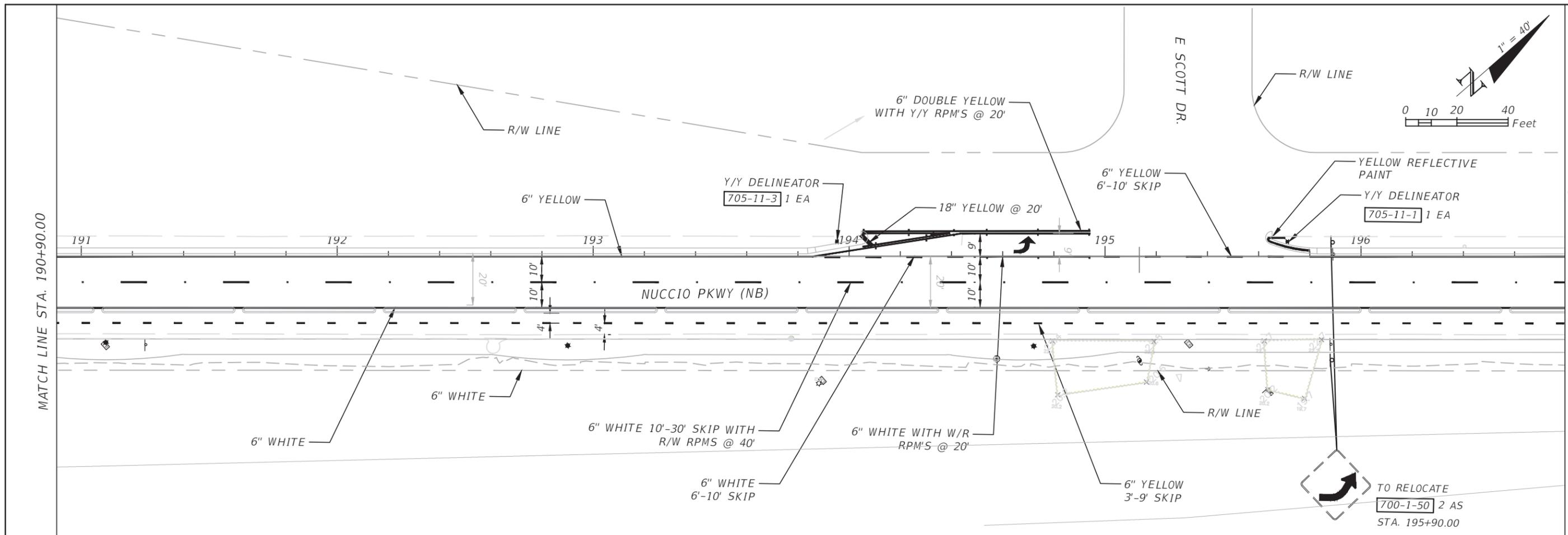
KISINGER CAMPO & ASSOCIATES CORP.
 201 N FRANKLIN ST, SUITE 400,
 TAMPA, FL 33602
 FLORIDA CERTIFICATE OF AUTHORIZATION
 NO. 02317
 ENGINEER OF RECORD: M. FATHY ABDALLA, P.E.
 P.E. NO: 63914

CITY OF TAMPA TRANSPORTATION AND STORMWATER SERVICES DEPARTMENT		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
OFF-SYS	HILLSBOROUGH	439476-2-58-01

**SIGNING AND PAVEMENT
 MARKING PLAN (2)**

SHEET NO.
 S-6

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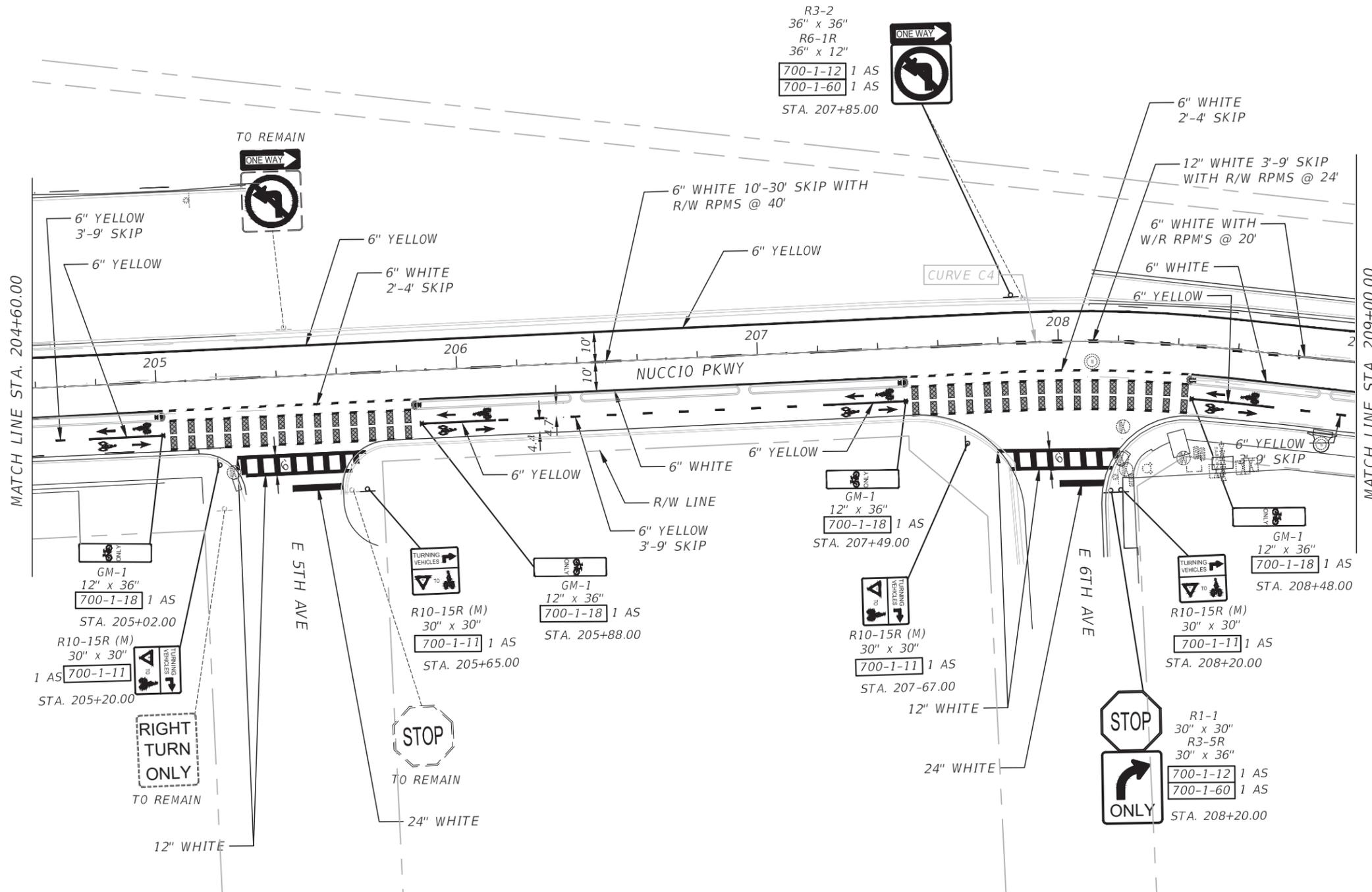
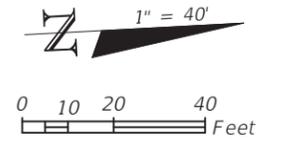


NOTE:
SEE SHEET S-3 FOR DELINEATOR
PLACEMENT DETAIL AND TYPICAL
INTERSECTION MARKINGS DETAIL

705-11-3 1 EA

REVISIONS		REVISIONS		KISINGER CAMPO & ASSOCIATES CORP. 201 N FRANKLIN ST, SUITE 400, TAMPA, FL 33602 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 02317 ENGINEER OF RECORD: M. FATHY ABDALLA, P.E. P.E. NO: 63914	CITY OF TAMPA TRANSPORTATION AND STORMWATER SERVICES DEPARTMENT			SHEET NO. S-7
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					OFF-SYS	HILLSBOROUGH	439476-2-58-01	

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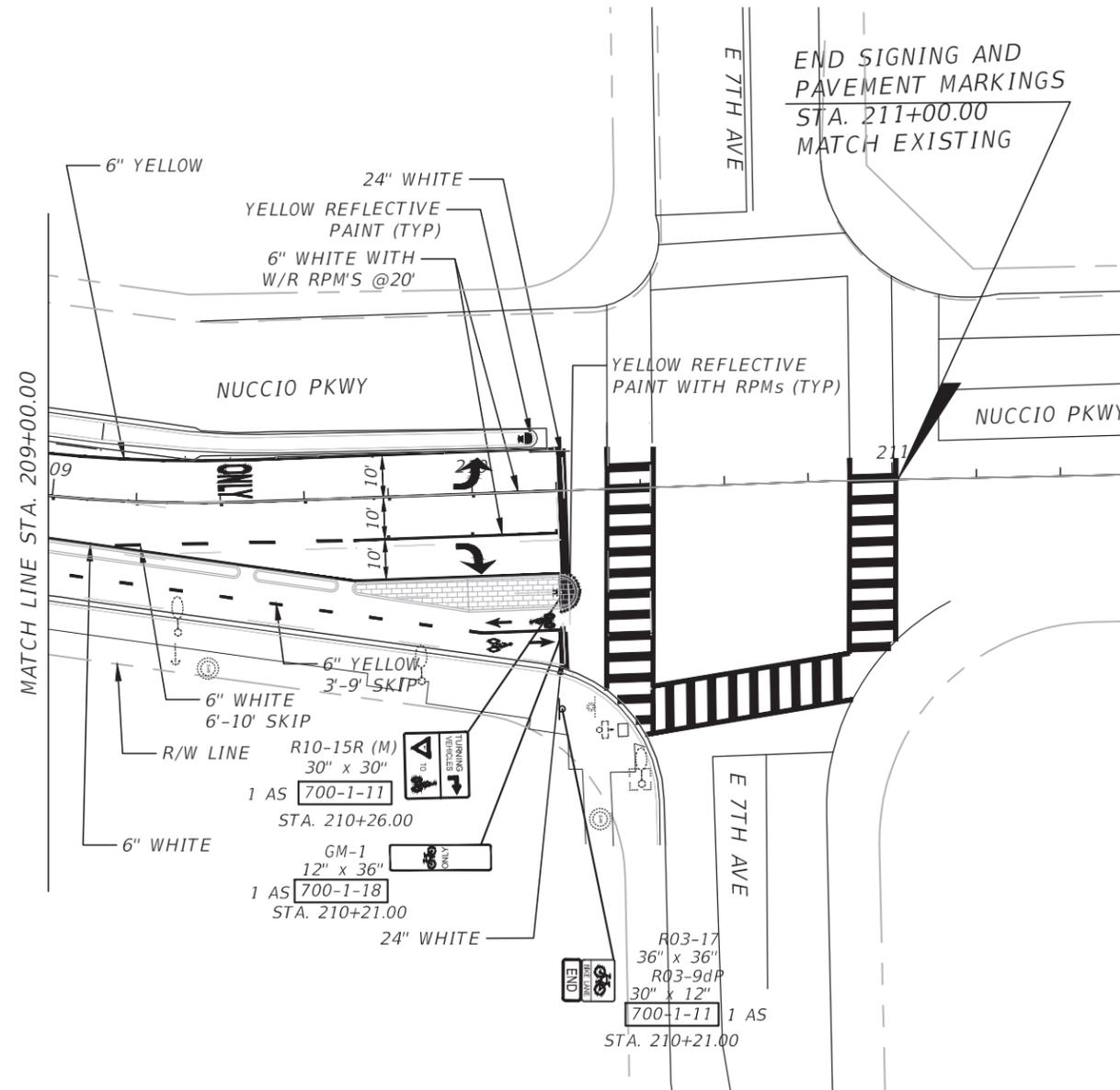
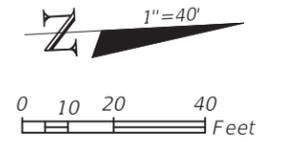


NOTE:
SEE SHEET S-3 FOR DELINEATOR
PLACEMENT DETAIL AND TYPICAL
INTERSECTION MARKINGS DETAIL

705-11-3 4 EA

REVISIONS				KISINGER CAMPO & ASSOCIATES CORP. 201 N FRANKLIN ST, SUITE 400, TAMPA, FL 33602 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 02317 ENGINEER OF RECORD: M. FATHY ABDALLA, P.E. P.E. NO: 63914	CITY OF TAMPA TRANSPORTATION AND STORMWATER SERVICES DEPARTMENT			SHEET NO. S-9
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					OFF-SYS	HILLSBOROUGH	439476-2-58-01	

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NOTE:
SEE SHEET S-3 FOR DELINEATOR
PLACEMENT DETAIL AND TYPICAL
INTERSECTION MARKINGS DETAIL

705-11-3 2 EA

REVISIONS				KISINGER CAMPO & ASSOCIATES CORP. 201 N FRANKLIN ST, SUITE 400, TAMPA, FL 33602 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 02317 ENGINEER OF RECORD: M. FATHY ABDALLA, P.E. P.E. NO: 63914	CITY OF TAMPA TRANSPORTATION AND STORMWATER SERVICES DEPARTMENT			SIGNING AND PAVEMENT MARKING PLAN (6)	SHEET NO. S-10
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					OFF-SYS	HILLSBOROUGH	439476-2-58-01		

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**CITY OF TAMPA TRANSPORTATION
AND STORMWATER SERVICES
DEPARTMENT**

CONTRACT PLANS

FINANCIAL PROJECT ID 439476-2-58-01

(FEDERAL FUNDS)

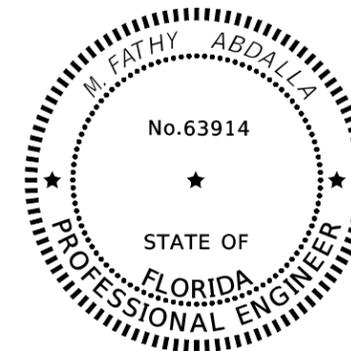
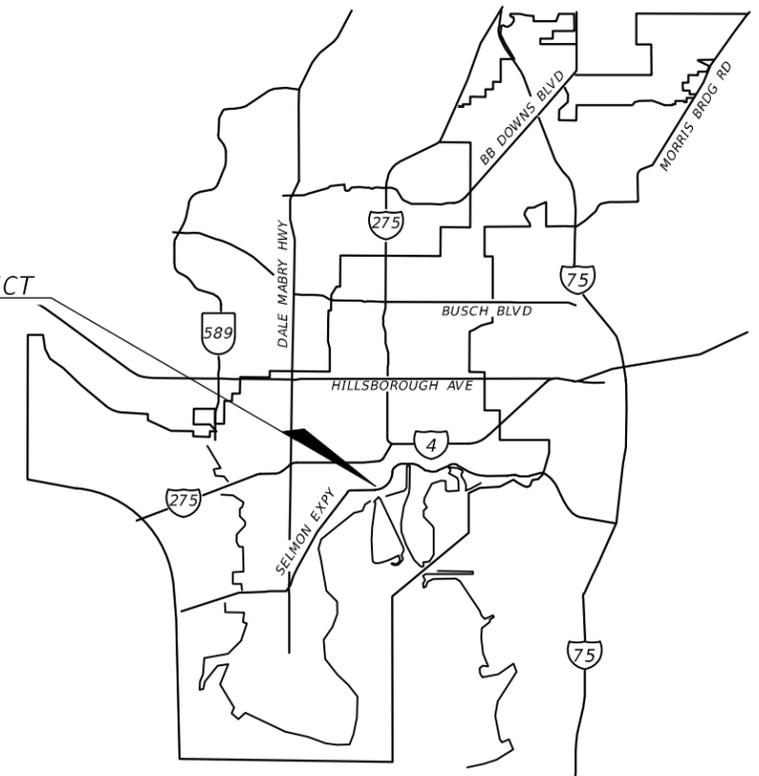
E/W GREEN SPINE CYCLE TRACK - PH 3A NUCCIO PKWY
FROM N NEBRASKA AVENUE TO 7TH AVE.
BIKE PATH/TRAIL

SIGNALIZATION PLANS

INDEX OF SIGNALIZATION PLANS

SHEET NO.	SHEET DESCRIPTION
T-1	KEY SHEET
T-2	TABULATION OF QUANTITIES
T-3	GENERAL NOTES
T-4, T-5	SIGNALIZATION PLANS

LOCATION OF PROJECT



THIS ITEM HAS BEEN DIGITALLY SIGNED
AND SEALED BY

Mohamed F Abdalla
2020.03.13 17:11:34 -04'00'

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE
NOT CONSIDERED SIGNED AND SEALED
AND THE SIGNATURE MUST BE VERIFIED
ON ANY ELECTRONIC COPIES.

KISINGER CAMPO & ASSOCIATES CORP.
201 N FRANKLIN ST, SUITE 400,
TAMPA, FL 33602
CERTIFICATE OF AUTHORIZATION 02317
FATHY ABDALLA, P.E. NO. 63914

CITY OF TAMPA PROJECT MANAGER:

NINA S. MABILLEAU E.I.

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
	2020	T-1

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TABULATION OF QUANTITIES

SHEET NUMBERS

PAY ITEM NO.	DESCRIPTION	UNIT	T-4		T-5										GRAND TOTAL		
			PLAN	FINAL	PLAN	FINAL									PLAN	FINAL	
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	28													28	
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	120		385											505	
632-7-2	SIGNAL CABLE- REPAIR/REPLACE/OTHER, FURNISH & INSTALL	LF	120		210											330	
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA	3		4											6	
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	EA	2		2											4	
650-1-14	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY	AS	4		4											8	
650-1-70	VEHICULAR TRAFFIC SIGNAL, RELOCATE-INCLUDES REMOVAL AND REINSTALLATION	AS	1													1	
670-5-400	TRAFFIC CONTROLLER ASSEMBLY, MODIFY	AS	1		1											2	

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

KISINGER CAMPO & ASSOCIATES CORP.
 201 N FRANKLIN ST, SUITE 400,
 TAMPA, FL 33602
 FLORIDA CERTIFICATE OF AUTHORIZATION
 NO. 02317
 ENGINEER OF RECORD: FATHY ABDALLA, P.E.
 P.O. NO: 63914

CITY OF TAMPA TRANSPORTATION AND
 STORMWATER SERVICES DEPARTMENT

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
OFF-SYS	HILLSBOROUGH	439476-2-58-01

TABULATION OF QUANTITIES

SHEET NO.

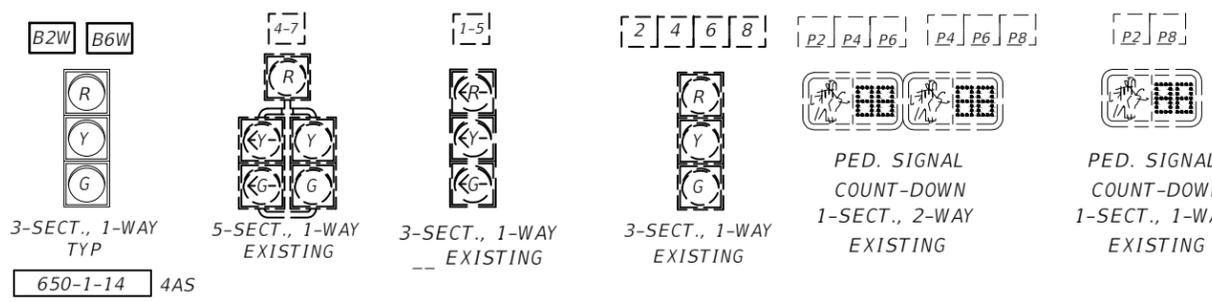
T-2

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GENERAL NOTES

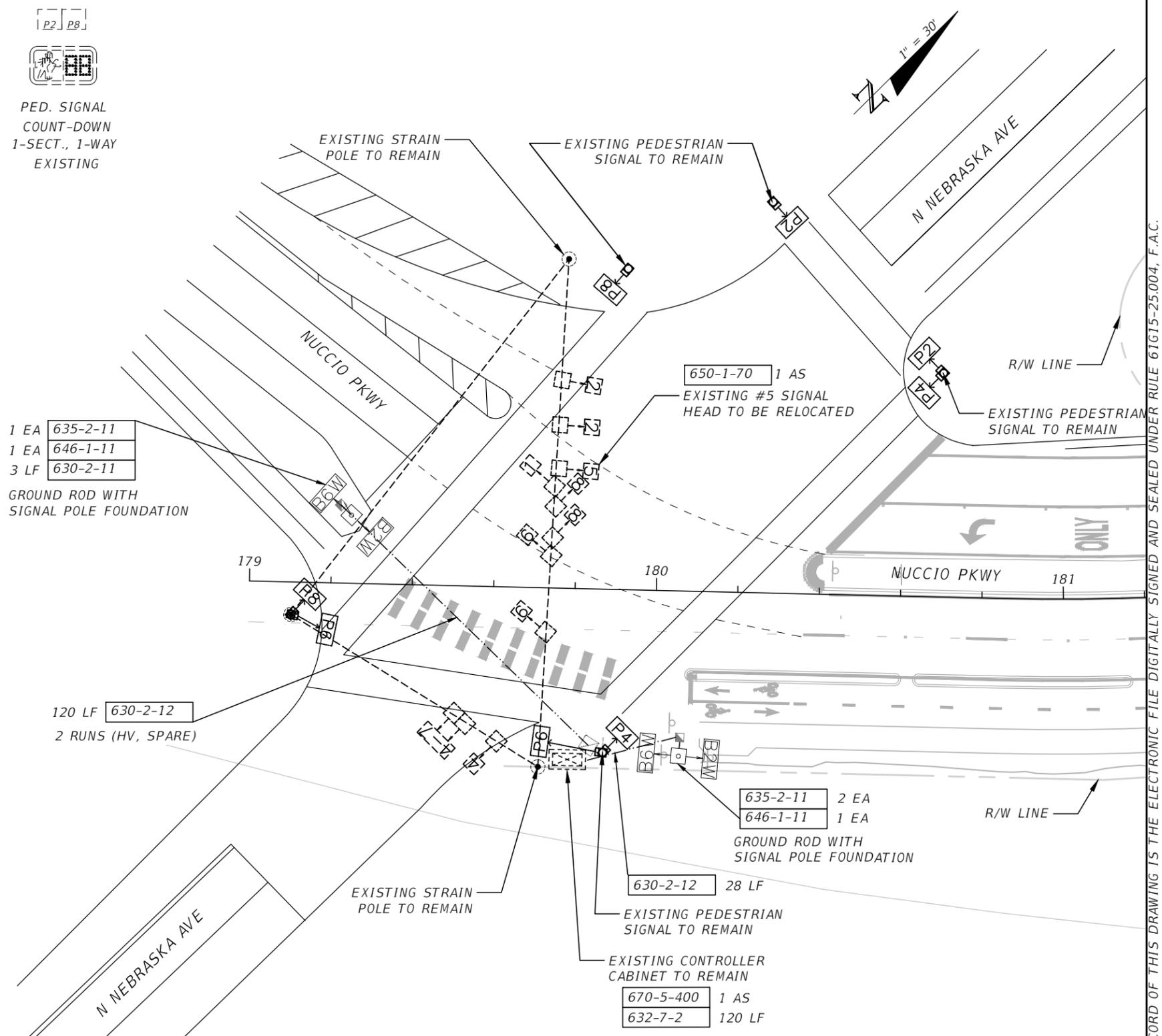
1. EXISTING SOP TO REMAIN IN OPERATION.
2. ALL PED SIGNALS SHALL CONTINUE TO RUN ON RECALL.
3. ALL NEW PED POLES SHALL BE GROUNDED WITHIN THE FOUNDATION OF THE POLES OR WITHIN THE PULL BOX IF WITHIN 10 FEET FROM THE POLE LOCATION.
4. CONTRACTOR IS RESPONSIBLE TO REPLACE ANY DAMAGE EQUIPMENT DUE TO RELOCATION WITH NO ADDITIONAL COMPENSATION.

REVISIONS				KISINGER CAMPO & ASSOCIATES CORP. 201 N FRANKLIN ST, SUITE 400, TAMPA, FL 33602 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 02317 ENGINEER OF RECORD: M. FATHY ABDALLA, P.E. P.E. NO: 63914	CITY OF TAMPA TRANSPORTATION AND STORMWATER SERVICES DEPARTMENT			GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					OFF-SYS	HILLSBOROUGH	439476-2-58-01		



NOTES AND CONTROLLER OPERATIONS:

1. MAJOR STREET IS NUCCIO PKWY AND MINOR STREET IS N. NEBRASKA AVENUE
2. POSTED SPEED ON NUCCIO PKWY IS 30 MPH AND POSTED SPEED ON N. NEBRASKA AVENUE IS 35 MPH.
3. FLASHING OPERATION SHALL BE:
YELLOW FOR MOVEMENTS 2, 6 & B6W
RED FOR MOVEMENTS 4 & 8
4. CONTRACTOR SHALL ADJUST THE RADAR DETECTION DURING AND AFTER THE PROJECT IS COMPLETE DUE TO MILL AND OVERLAY, MEDIAN AND LANE ADJUSTMENTS.
5. MOVEMENT B2W AND B6W SHALL ONLY OPERATE WITH MOMENT 6.
6. BICYCLE SIGNAL ARE TO BE WIRED TO PHASE 6.
7. SIGNAL HEAD FOR BICYCLISTS SHALL BE MOUNTED ON STANDARD ALUMINUM PEDESTRIAN PEDESTAL WITH A SUPPORT COLLAR WITH ROLL PINS. CONTACT THE TRAFFIC SIGNAL DEPARTMENT FOR INSTRUCTION ON PROPER INSTALLATION OF ROLL PINS.



1 EA 635-2-11
1 EA 646-1-11
3 LF 630-2-11
GROUND ROD WITH SIGNAL POLE FOUNDATION

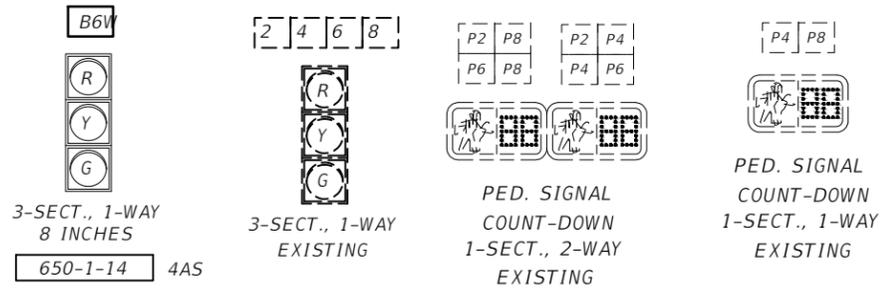
120 LF 630-2-12
2 RUNS (HV, SPARE)

635-2-11 2 EA
646-1-11 1 EA
GROUND ROD WITH SIGNAL POLE FOUNDATION

630-2-12 28 LF
EXISTING PEDESTRIAN SIGNAL TO REMAIN
EXISTING CONTROLLER CABINET TO REMAIN
670-5-400 1 AS
632-7-2 120 LF

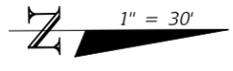
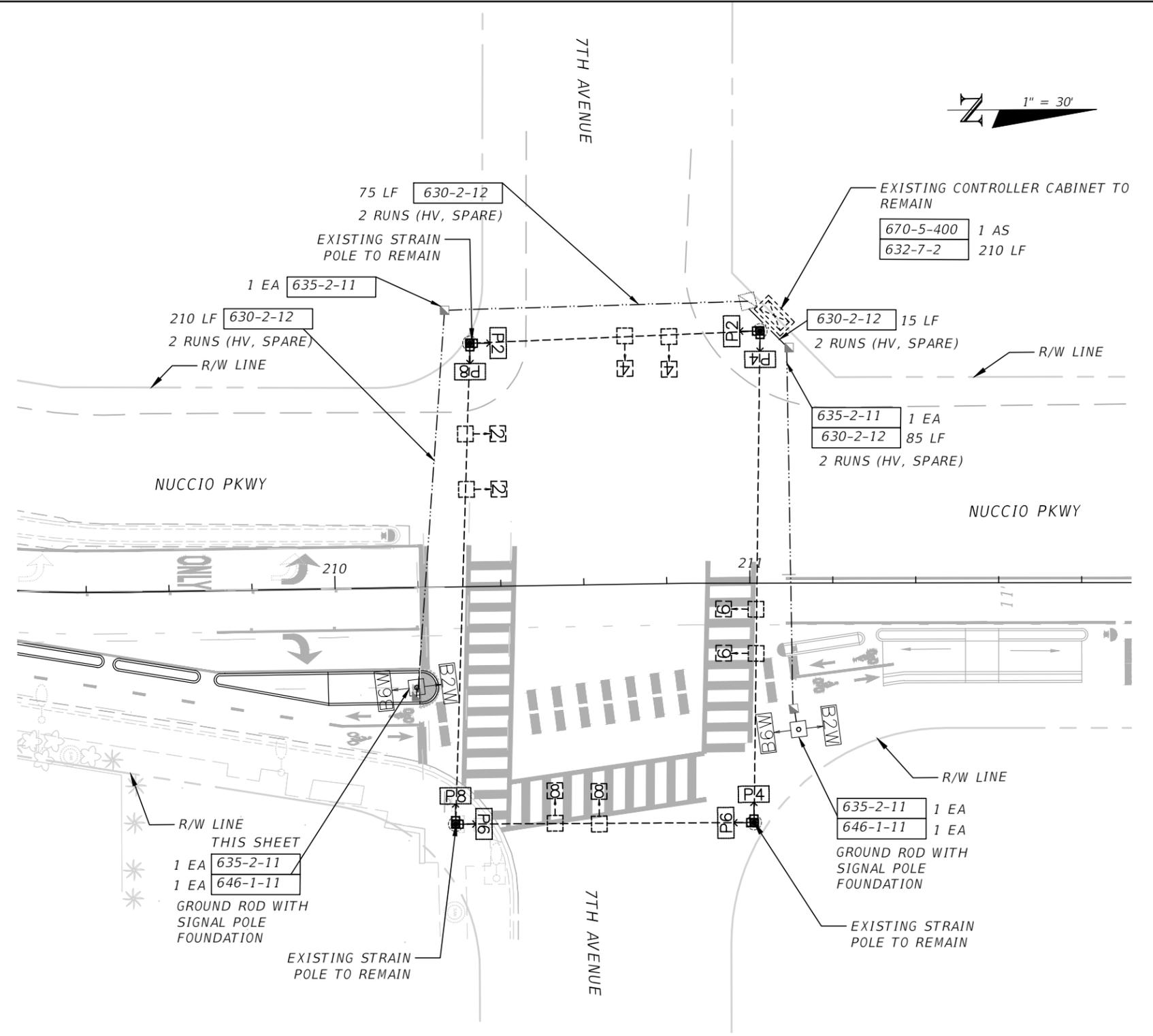
REVISIONS				KISINGER CAMPO & ASSOCIATES CORP. 201 N FRANKLIN ST, SUITE 400, TAMPA, FL 33602 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 02317 ENGINEER OF RECORD: FATHY ABDALLA ,P.E. P.E. NO: 63914	CITY OF TAMPA TRANSPORTATION AND STORMWATER SERVICES DEPARTMENT			SHEET NO. T-4
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					OFF-SYS	HILLSBOROUGH	439476-2-58-01	

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NOTES AND CONTROLLER OPERATIONS:

1. MAJOR STREET IS NUCCIO PKWY AND MINOR STREET IS 7TH AVENUE
2. POSTED SPEED ON NUCCIO PKWY IS 30 MPH AND POSTED SPEED ON 7TH AVENUE IS 25 MPH
3. FLASHING OPERATION SHALL BE:
YELLOW FOR MOVEMENTS 2, 6 & B6W
RED FOR MOVEMENTS 4 & 8
4. UTILIZE EXISTING CONDUITS (NOT SHOWN) TO ROUTE PROPOSED BIKE SIGNAL TO THE CONTROLLER CABINET.
5. BICYCLE SIGNAL ARE TO BE WIRED TO PHASE 6.
6. SIGNAL HEAD B6W FOR WESTBOUND BICYCLISTS SHALL BE MOUNTED ON STANDARD ALUMINUM PEDESTRIAN PEDESTAL WITH A SUPPORT COLLAR WITH ROLL PINS. CONTACT THE TRAFFIC SIGNAL DEPARTMENT FOR INSTRUCTION ON PROPER INSTALLATION OF ROLL PINS.



DESCRIPTION		KISINGER CAMPO & ASSOCIATES CORP. 201 N FRANKLIN ST, SUITE 400, TAMPA, FL 33602 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 02317 ENGINEER OF RECORD: FATHY ABDALLA ,P.E. P.E. NO: 63914		CITY OF TAMPA TRANSPORTATION AND STORMWATER SERVICES DEPARTMENT		<p><i>SIGNALIZATION PLAN (2)</i></p> <p><i>NUCCIO PKWY & 7TH AVE</i></p>		SHEET NO.
ROAD NO.	COUNTY	FINANCIAL PROJECT ID		OFF-SYS	HILLSBOROUGH			439476-2-58-01

THE OFFICIAL RECORD OF THIS DRAWING IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-25.004, F.A.C.

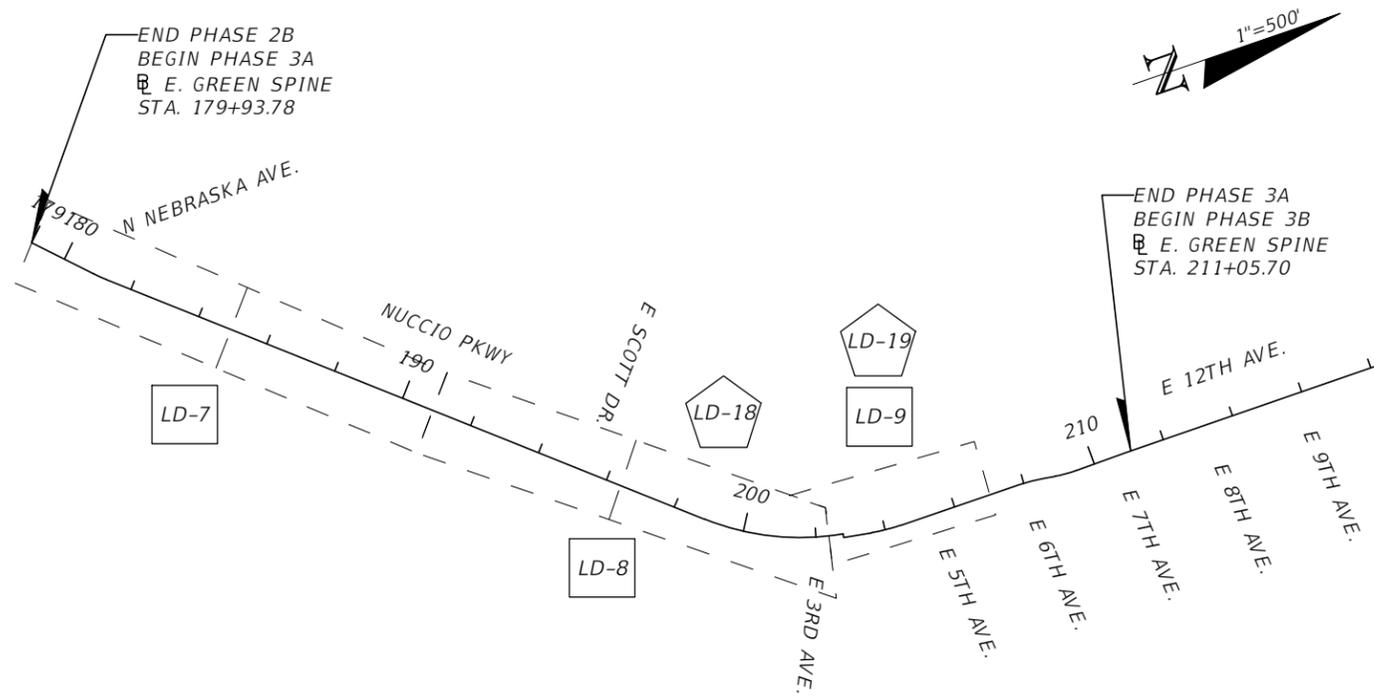
PAY ITEM NO.	DESCRIPTION	UNIT	FINAL
580-1-2	LANDSCAPE COMPLETE (LARGE PLANTS)	LS	1
SP-13.03	IRRIGATION SYSTEM	LS	1

PERFORMACE TURF QUANTITIES ARE INCLUDED IN ROADWAY PLANS PAY ITEMS.

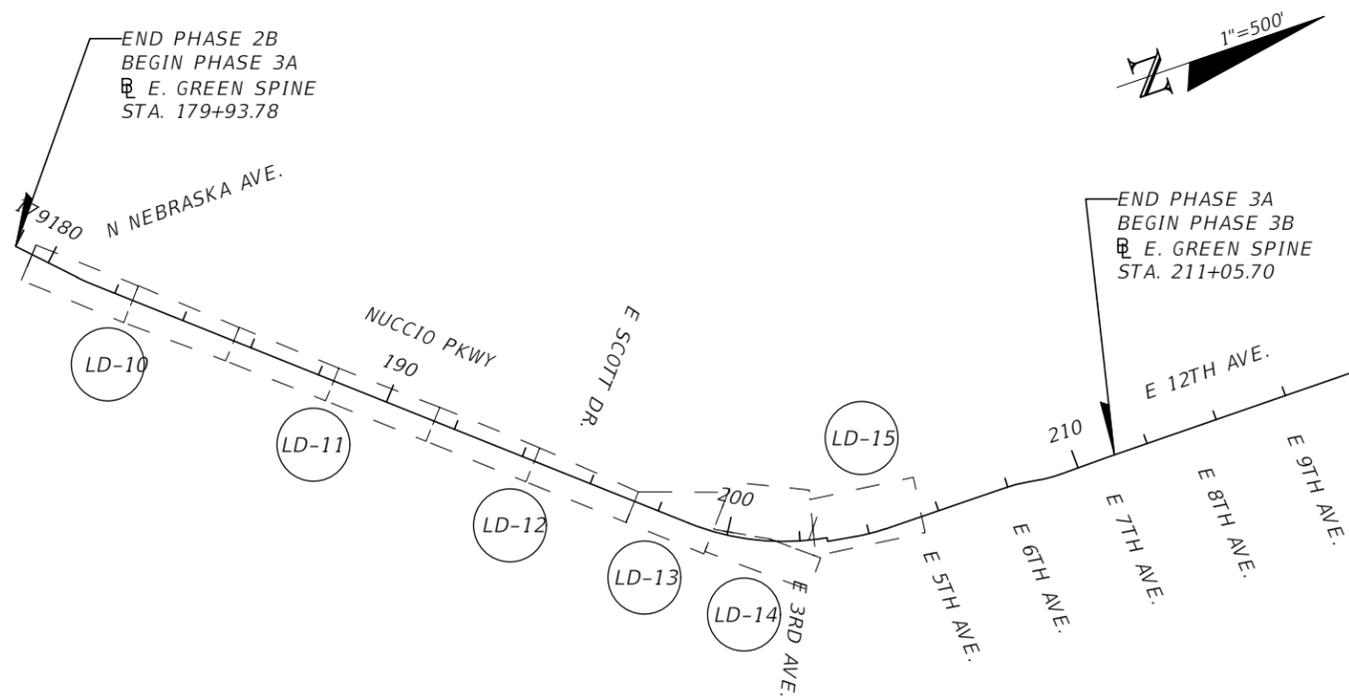
TREE PROTECTION BARRIERS ARE INCLUDED IN THE ROADWAY PLANS LUMP SUM FOR MOBILIZATION.

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REVISIONS				DAVID R. CONNER, RLA LA0001327 DAVID CONNER + ASSOCIATES 100 E. MADISON ST, SUITE 200 TAMPA, FL 33602 CERT. OF AUTHORIZATION LC0000319	CITY OF TAMPA TRANSPORTATION AND STORMWATER SERVICES DEPARTMENT			SUMMARY OF PAY ITEMS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		LD-2
					OFF-SYS	HILLSBOROUGH	439476-2-58-01		



TREE PROTECTION REMOVAL PLANS AND IRRIGATION PLANS



PLANTING PLANS

LEGEND

- LD-# TREE PROTECTION AND REMOVAL PLAN
- LD-# PLANTING PLAN
- LD-# IRRIGATION PLAN

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID R. CONNER, RLA
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 100 E. MADISON ST, SUITE 200
 TAMPA, FL 33602
 CERT. OF AUTHORIZATION LC0000319

CITY OF TAMPA TRANSPORTATION AND STORMWATER SERVICES DEPARTMENT		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
OFF-SYS	HILLSBOROUGH	439476-2-58-01

PROJECT LAYOUT

SHEET NO.
LD-4

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TECHNICAL MAINTENANCE PLAN - 180 DAYS

OPERATION	180 DAY CONTRACTED MAINTENANCE WEEKLY CYCLE				CITY OF TAMPA COMMITMENT ON YEARLY CYCLE											
WEEK	1 2 3 4	5 6 7 8	9 - 12	13 - 26	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
WATERING # DAYS	7 7 7 7	4 4 4 4	2	1												
	WATERING BY TRUCK MUST BE PERFORMED EACH WEEK OF THE 180 DAY MAINTENANCE PERIOD AT THE FREQUENCY INDICATED (SEE CHART FOR WATER APPLICATION RATES). SATURATE TREE WELL COMPLETELY.				CITY SHALL WATER ONCE A WEEK OR AS NEEDED AFTER 180 DAY CONTRACTED MAINTENANCE PERIOD (DURING DROUGHT PERIODS) USING A CITY WATER TRUCK.											
WEEDING/LITTER PICK UP	X	X	X	X X X X	WEEDING EVERY 14 DAYS AS INDICATED USING AN APPROVED HERBICIDE SUCHS AS "ROUND UP" (GLYPHOSATE) OR EQUAL APPLIED AT THE RATE OF 1 1/2 OZ. PER GALLON AND APPLIED BY LICENSED APPLICATOR OR UNDER THE SUPERVISION OF LICENSED APPLICATOR. LITTER PICK UP MUST BE PERFORMED PRIOR TO APPLICATON OF HERBICIDE.											
	CONTRACTOR SHALL WEED AND PICK UP LITTER IN ALL PLANTING BEDS AND INDIVIDUAL TREE WELLS ONCE IN EACH FOUR WEEK PERIOD BEFORE THE END OF THE 180 DAY MAINTENANCE PERIOD.															
PRUNING	AS NEEDED TO MECHANICALLY REMOVE DAMAGED BRANCHES. CONTRACTOR SHALL MAINTAIN STATE OF FLORIDA #1 FORM TO ATTAIN FINAL ACCEPTANCE.				PRUNING SHALL BE ACCOMPLISHED USING CHAIN SAWS, HAND SAWS, AND/OR LOPPING SHEARS. SHRUBS SHALL BE PRUNED YEARLY TO A HEIGHT APPROPRIATE TO SPECIES, USE AND LOCATION.											
FERTILIZING	TREES, PALMS, SHRUBS AND GROUND COVERS SHALL BE FERTILIZED WHEN PLANTED PER DETAIL & SPECIFICATIONS.				TREES, PLAMS AND GROWDCOVERS MUST BE FERTILIZED ANNUALLY PER MANUFACTURER'S SPECIFICATIONS.											
MOWING	EVERY 14 DAYS LEAVING 3" IN HEIGHT.				EVERY 14 DAYS LEAVING 3" HEIGHT.											
EDGING	EVERY 14 DAYS BY MECHNICAL MEANS.				EVERY 14 DAYS BY MECHNICAL MEANS.											
MULCHING	MULCH SHALL BE APPLIED IMMEDIATELY AFTER WATERING OF EACH PLAN. SEE PLANTING PLANS FOR MULCH TYPES/DEPTH TO BE USED.				RESTORE 3" LAYER MULCH ONCE A YEAR. SEE PLANTING PLANS FOR MULCH TYPES TO BE USED.											

WATER APPLICATION RATES

(FOR NON-IRRIGATED AREAS)

TREES AND PALMS	SATURATE TO 3' DEPTH. FLOOD TREE WELL OR OOZE TUBE
TURF	REFER TO ROADWAY SPECIFICATIONS

NOTE:

WATER FOR FILLING TRUCKS WILL BE AVAILABLE AT SWANN CIRCLE PARK (RECLAIMED).

FERTILIZER APPLICATION RATES

TREES AND PALMS	FERTILIZER PER DETAILS AND MANF. SPECIFICATIONS SHALL BE APPLIED AT TIME OF PLANTING AND ONCE ANNUALLY.
GROUNDCOVERS / GRASSES	FERTILIZER PER DETAILS AND MANF. SPECIFICATIONS SHALL BE APPLIED AT TIME OF PLANTING AND ONCE ANNUALLY.

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		LD-5
					OFF-SYS	HILLSBOROUGH	439476-2-58-01		

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LANDSCAPING

1. THE BASELINE SHOWN IN THE PLANS IS FOR INFORMATION PURPOSE ONLY. THE BASELINE IS REFERENCED FROM PROJECT NO. 439476-1-58-01.
2. PERFORMANCE TURF INDICATED ON SHEETS LD-9 TO LD-14 TO BE INCLUDED IN CIVIL PAY ITEM FOR PERFORMANCE TURF.
3. INSTALL SMALL PLANT ROOTBALLS A MINIMUM OF 2 FEET FROM UNDERGROUND UTILITIES.
4. DO NOT INSTALL LANDSCAPE MATERIALS THAT BLOCK TRAFFIC CONTROL SIGNS OR DEPARTMENT'S INFORMATIONAL OR LOGO SIGNS. ALL LANDSCAPE AREAS SHALL BE MAINTAINED TO PRESERVE VISIBILITY OF TRAFFIC CONTROL DEVICES AND SIGNS. RESET SIGNS DISTURBED DURING CONSTRUCTION TO CURRENT STANDARDS FOR HEIGHT, OFFSET, AND METHOD OF INSTALLATION AT THE CONTRACTOR'S EXPENSE.
5. SCHEDULE ALL ON-SITE PLANT DELIVERIES TO OCCUR ON MONDAY THROUGH FRIDAY ONLY UNLESS APPROVED BY THE ENGINEER IN ADVANCE. ENSURE THAT PLANT MATERIAL IS DELIVERED UNDAMAGED FROM TRANSPORTATION OR DIGGING OPERATIONS. THE ENGINEER MAY REJECT MATERIAL THAT HAS BEEN DAMAGED OR RENDERED UNACCEPTABLE DUE TO RELOCATION OR TRANSPORTATION FROM THE POINT OF ORIGIN. REPLACE DAMAGED PLANT MATERIAL AT NO ADDITIONAL EXPENSE TO THE DEPARTMENT.
6. "WATER IN" TREES AND PALMS LEAVING NO AIR POCKETS. FILL ANY AIR POCKETS WITH SOIL AND KEEP GRADE WITHIN TREE RING EVEN AND SMOOTH, MAINTAIN EROSION FREE TREE RINGS AND REPAIR AS NECESSARY PER PLANTING DETAILS. WATER SOURCE AND APPLICATION OF WATER FOR THE SUCCESSFUL TRANSPLANT, ESTABLISHMENT, AND SURVIVAL OF PLANTS IS THE RESPONSIBILITY OF THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE CITY.
7. TRIMMING OF PALMS WILL BE LIMITED TO DEAD/BROWN FRONDS AND ANY LOOSELY ATTACHED DANGLING FRONDS, FRUITS, AND PETIOLES OR SPATHES UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
8. THE ESTABLISHMENT PERIOD SHALL BE ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE INSTALLATION OF THE TOTAL PROJECT.
9. ALL LANDSCAPE MATERIAL SHALL BE INSTALLED AND MAINTAINED AT ALL TIMES IN ACCORDANCE WITH THE FDOT STANDARDS INDEX 580 AS WELL AS ALL OTHER APPLICABLE CITY OF TAMPA STANDARDS. APPLY THE MORE STRINGENT STANDARDS WHERE CONFLICT OCCURS.
10. MULCH MATERIAL FOR TREES SHALL BE SHREDDED HARDWOOD MULCH. MULCH SHALL BE APPLIED PER PLANTING DETAILS ON SHEET LD-16 AND LD-17. DO NOT PLACE MULCH AGAINST TRUNK OF TREES.
11. THE EXISTING SIDEWALKS SHALL REMAIN AVAILABLE FOR SAFE USE THROUGHOUT THE PROJECT WITH ONLY PERIODIC CLOSURES AS APPROVED BY ENGINEER.
12. PROCEDURE (TOPIC NO, 850-000-015-1 OF 01/01/2014), "ALL CONTRACTORS AND/OR PERMITTEE'S WHO CONTRACT THE APPLICATION OF FERTILIZER SHALL ENSURE THEY ARE LICENSED COMMERCIAL APPLICATORS WHO HAVE BEEN TRAINED THROUGH THE GREEN INDUSTRY BMP PROGRAM, AND HAVE OBTAINED A LIMITED CERTIFICATION FOR URBAN LANDSCAPE COMMERCIAL FERTILIZER APPLICATION UNDER SECTION 482.1562,F.S. WITH A CURRENT COPY OF THE LICENSE ON FILE.

ROOT REGENERATED PALM REQUIREMENTS

1. ALL SABAL PALMS SHALL BE ROOT REGENERATED AND MEET THE FOLLOWING CRITERIA.
 - a. PALMS SHALL HAVE BEEN DUG AND REPLANTED IN CONTAINERS LOCATED WITHIN A NURSERY SPECIALIZING IN REGENERATED ROOT PALM TREE PRODUCTION.
 - b. PALM TREES SHALL HAVE BEEN PLANTED IN CONTAINERS AND HELD IN A NURSERY ENVIRONMENT FOR A MINIMUM OF 6 MONTHS. PRIOR TO DELIVERY TO THE PROJECT, ROOTBALL SHALL BE CONTAINED IN A STRETCH WRAP OR EQUIVALENT. FORMING A SOLID DURABLE ROOTBALL.
 - c. PRIOR TO DELIVERY TO THE PROJECT, PALMS ROOTS SHALL DEMONSTRATE SIGNIFICANT VISIBLE NEW REGENERATED ROOTS AT THE PERIMETER OF THE ROOT BALL.
 - d. PALM TREES SHALL DEMONSTRATE NEW GROWTH IN THE CANOPY INCLUDING FULLY EXTENDED AND OPEN FRONDS.
 - e. ALL PALM TREE LOADS SHALL BE TARPED TO PREVENT WIND DAMAGE DURING DELIVERY.

UTILITY

1. IN THE EVENT A DIRECT UTILITIES CONFLICT DOES ARISE, THE PROPOSED PLANTING CAN BE ADJUSTED WITH PRIOR APPROVAL OF THE ENGINEER.
2. USE EXTREME CAUTION WHEN EXCAVATING, INSTALLING, BACKFILLING AND COMPACTING AROUND EXISTING UTILITIES.

DESIGN SPEEDS		
SEGMENT	DESIGN SPEED	POSTED SPEED
PHASE 3A (NEBRASKA AVE. TO 7TH AVE.)	45 MPH	40 MPH

LEGEND

-  SIGHT TRIANGLE
-  EXISTING TREE TO REMAIN
-  EXISTING PALM TO REMAIN
-  TREE TO BE REMOVED
-  PALM TO BE REMOVED
-  TREE PROTECTION BARRIER

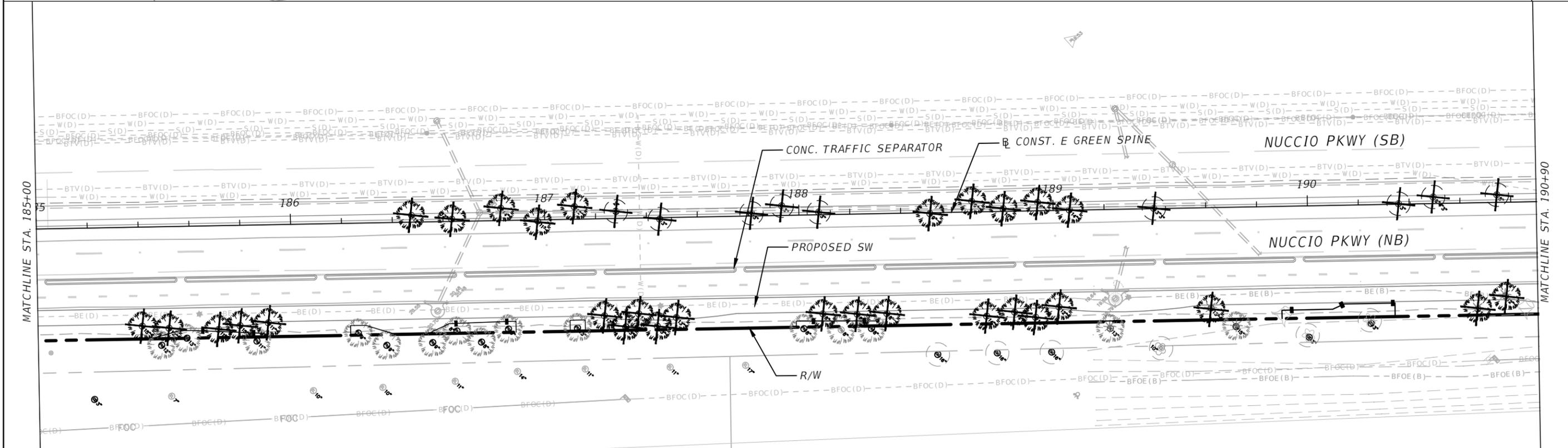
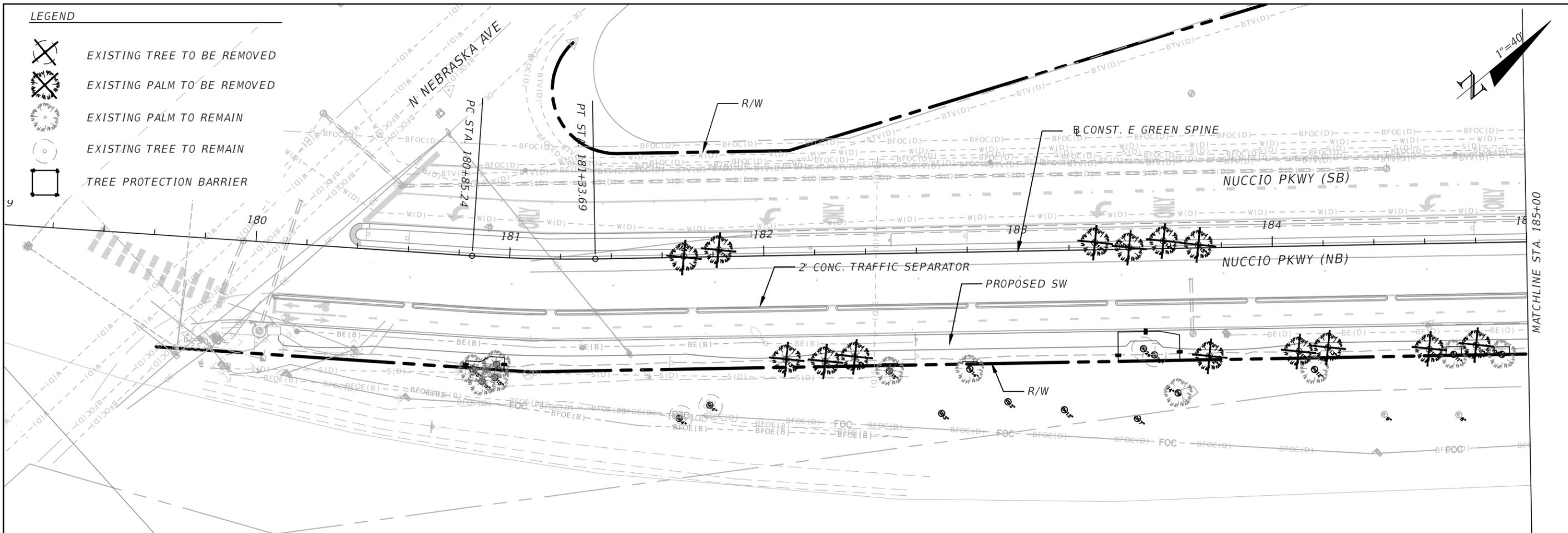
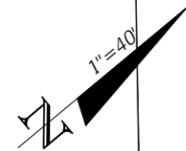
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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						OFF-SYS	HILLSBOROUGH	

GENERAL NOTES

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LEGEND

-  EXISTING TREE TO BE REMOVED
-  EXISTING PALM TO BE REMOVED
-  EXISTING PALM TO REMAIN
-  EXISTING TREE TO REMAIN
-  TREE PROTECTION BARRIER



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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 TAMPA, FL 33602
 CERT. OF AUTHORIZATION LC0000319

CITY OF TAMPA TRANSPORTATION AND STORMWATER SERVICES DEPARTMENT		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
OFF-SYS	HILLSBOROUGH	439476-2-58-01

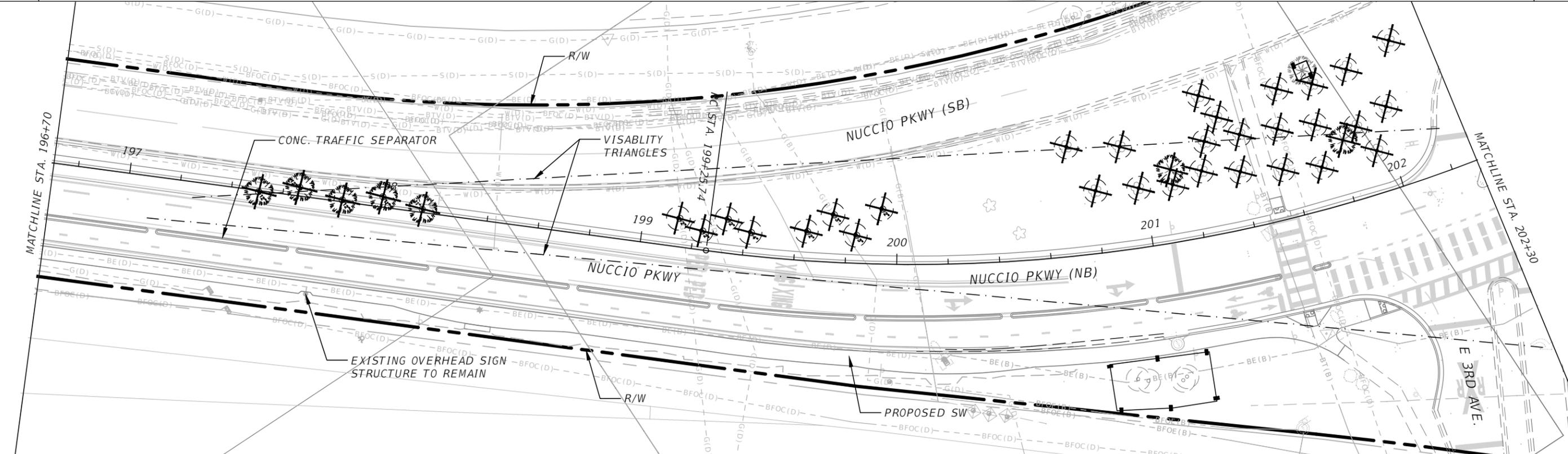
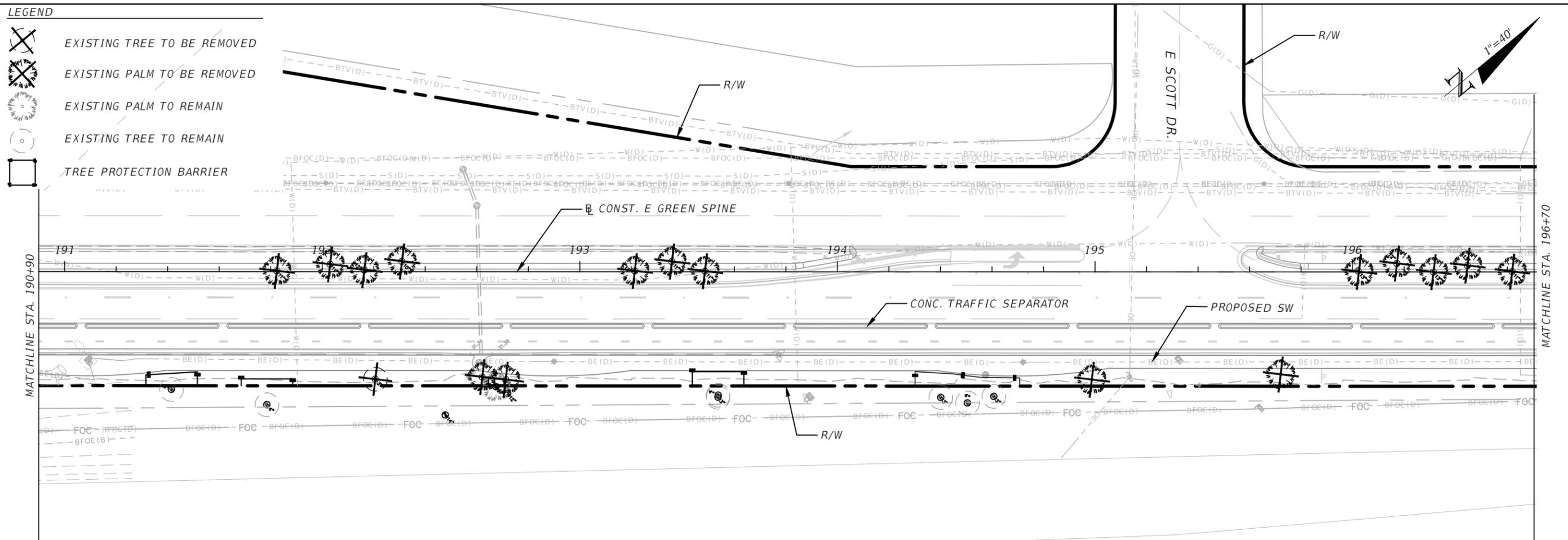
TREE PROTECTION & REMOVAL PLANS (1)

SHEET NO.
LD-7

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.011 F.A.C.

LEGEND

-  EXISTING TREE TO BE REMOVED
-  EXISTING PALM TO BE REMOVED
-  EXISTING PALM TO REMAIN
-  EXISTING TREE TO REMAIN
-  TREE PROTECTION BARRIER



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

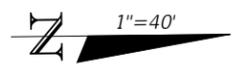
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 TAMPA, FL 33602
 CERT. OF AUTHORIZATION LC0000319

CITY OF TAMPA TRANSPORTATION AND STORMWATER SERVICES DEPARTMENT		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
OFF-SYS	HILLSBOROUGH	439476-2-58-01

TREE PROTECTION & REMOVAL PLANS (2)

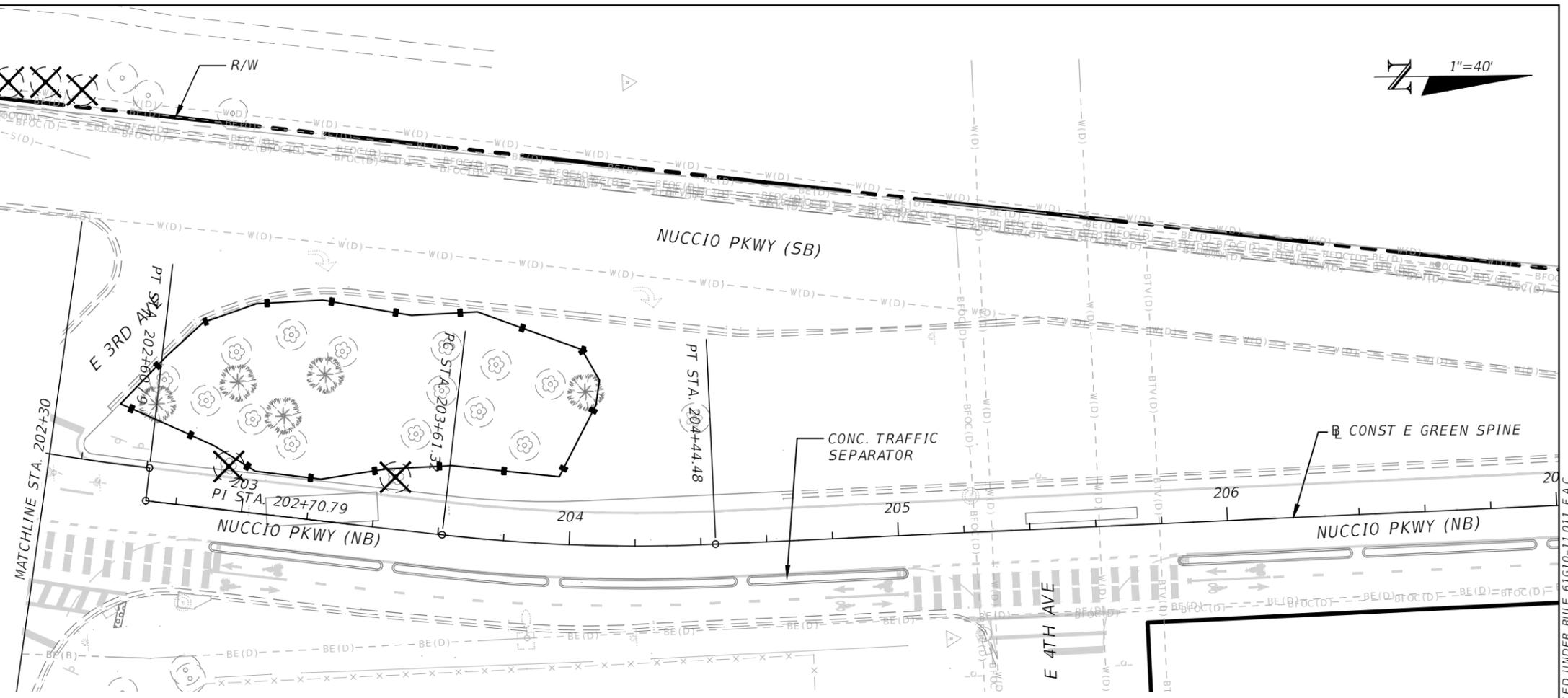
SHEET NO.
LD-8

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LEGEND

- EXISTING TREE TO BE REMOVED
- EXISTING PALM TO BE REMOVED
- EXISTING PALM TO REMAIN
- EXISTING TREE TO REMAIN
- TREE PROTECTION BARRIER



TREE TABLES FOR DEBIT

TREES REMOVED

Diameter (inches)	# Removed from Site	Multiplier for Debit	Debit
5"-7"	2	0	0
8"-12"	5	1	5
13"-19"	24	2	48
20"-29"	0	4	0
30" or more	0	total inches/2	0
All Palms	67	1	67
Total	98		120

SUMMARY OF REQUIREMENTS

Required Number of 2" Trees	
Debit for trees removed	120
Credit for trees to be retained on site	n/a
TOTAL TREES REQUIRED TO BE PLANTED	120

PROPOSED TREES - CITY OF TAMPA SECTION

(SEE CONTRACT PLANS DESIGN PROJECT ID 17-D-00022)

Type	# Proposed	Size in inches	# 2" Trees
Shade Trees	3	6	9
Palms	5	n/a	5
Total	8		14

PROPOSED TREES - NUCCIO PARKWAY FDOT SECTION

(SEE LD-10 TO LD-15)

Type	# Proposed	Size in inches	# 2" Trees
Shade Trees	15	6	45
Palms	49	n/a	49
Total	64		94

SUMMARY OF PROPOSED TREES

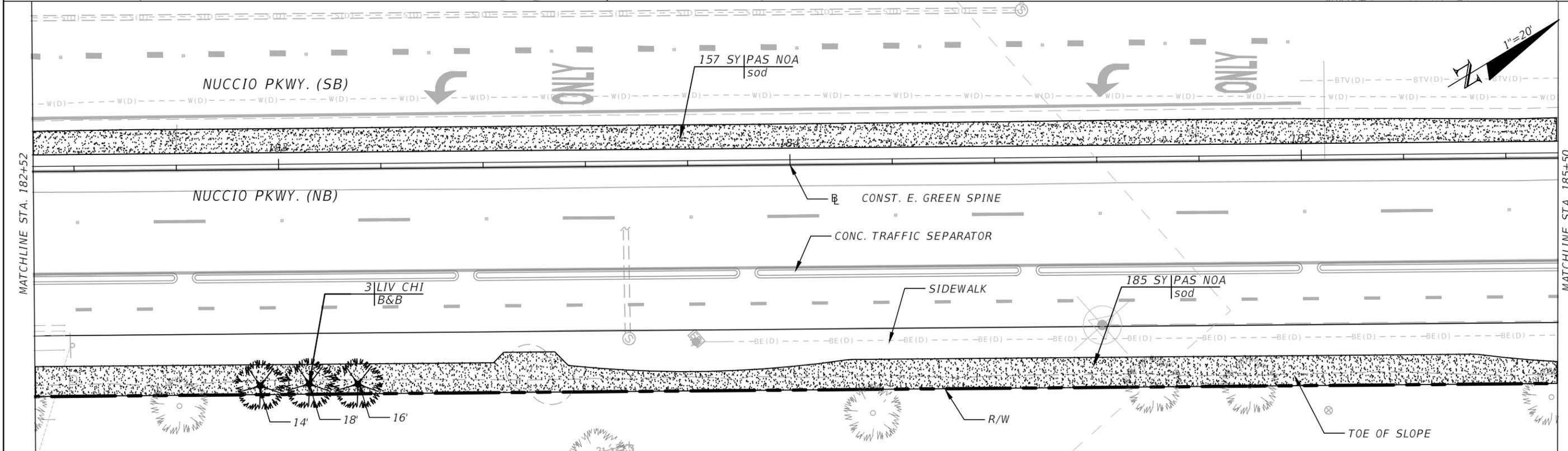
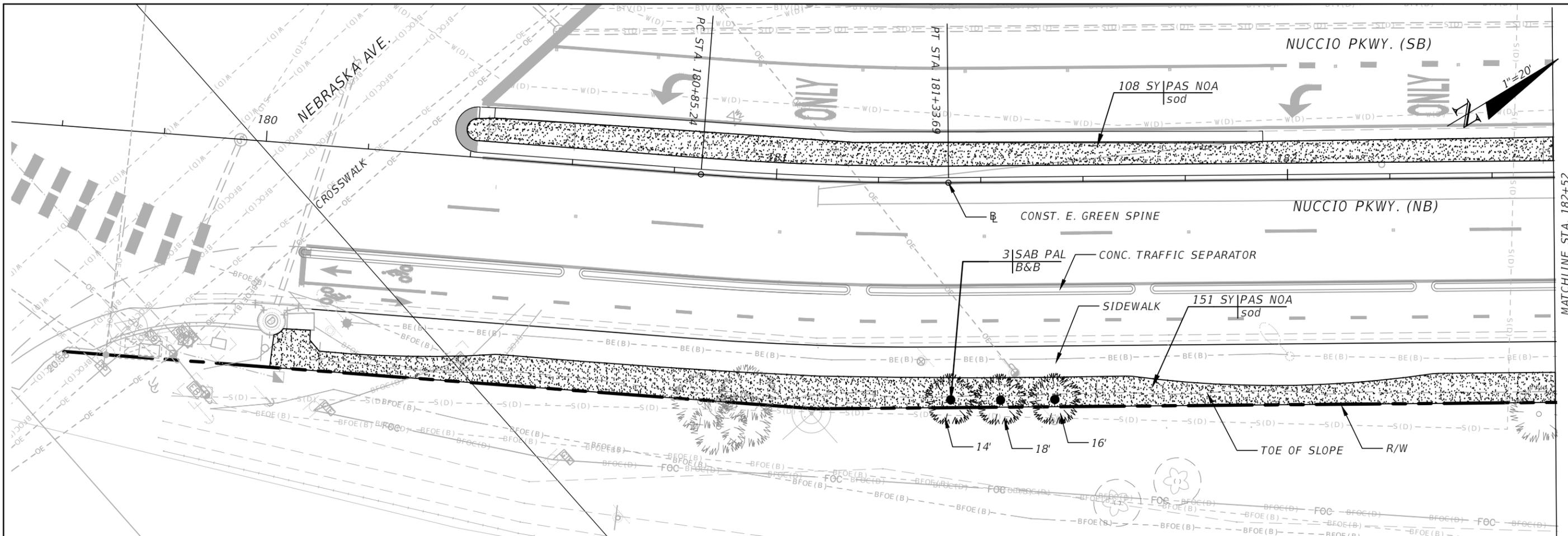
Number of 2" Trees	
TOTAL TREES REQUIRED	120
To be planted	108
To be paid into the tree fund	12

1

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REVISIONS				DAVID R. CONNER, RLA LA0001327 DAVID CONNER + ASSOCIATES 100 E. MADISON ST, SUITE 200 TAMPA, FL 33602 CERT. OF AUTHORIZATION LC0000319	CITY OF TAMPA TRANSPORTATION AND STORMWATER SERVICES DEPARTMENT			TREE PROTECTION & REMOVAL PLANS (3)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		LD-9
					OFF-SYS	HILLSBOROUGH	439476-2-58-01		

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REVISIONS			
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CITY OF TAMPA TRANSPORTATION AND STORMWATER SERVICES DEPARTMENT		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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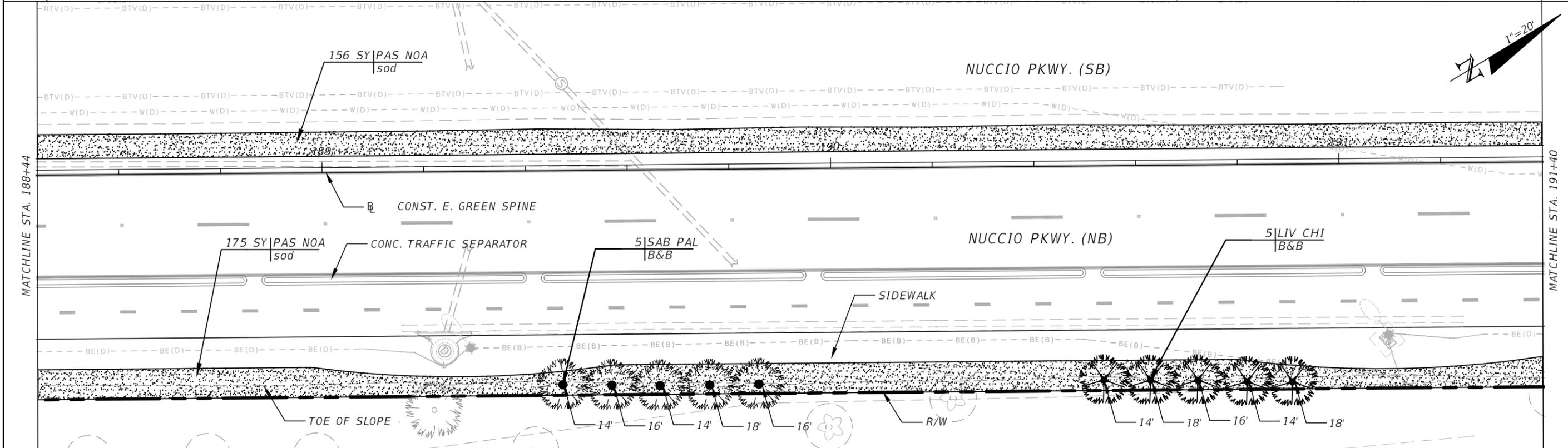
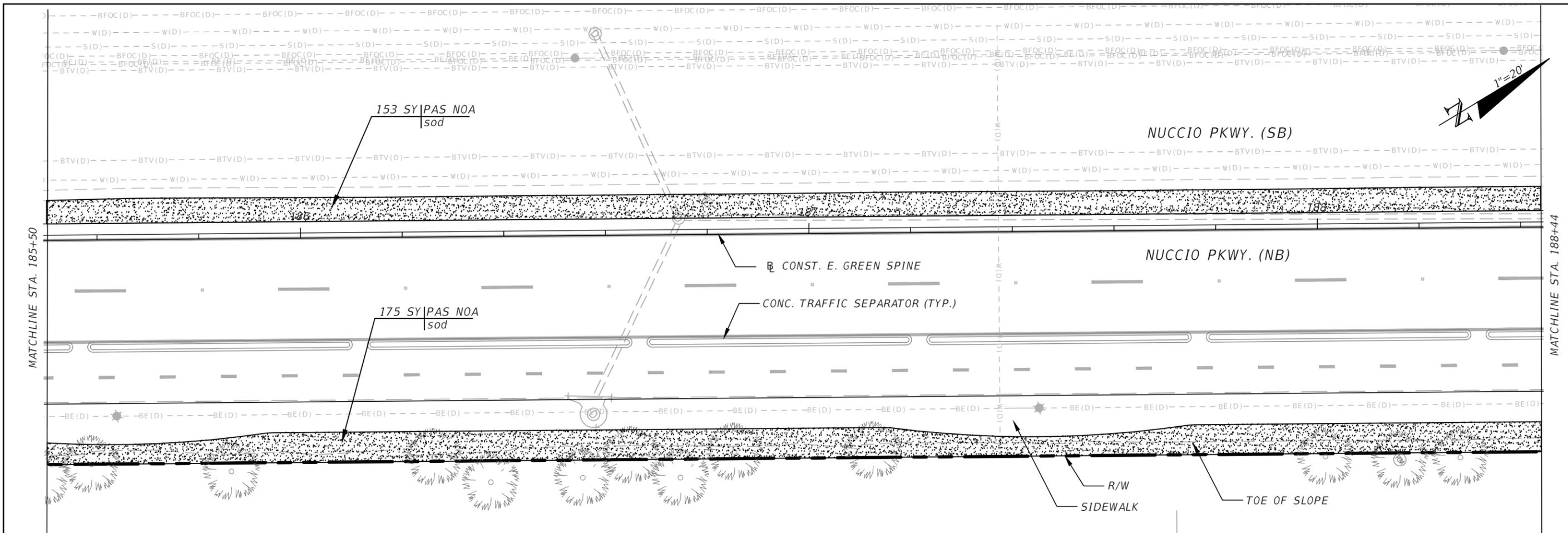
PLANTING PLANS (1)

SHEET NO.
 LD-10

MATCHLINE STA. 182+52

MATCHLINE STA. 185+50

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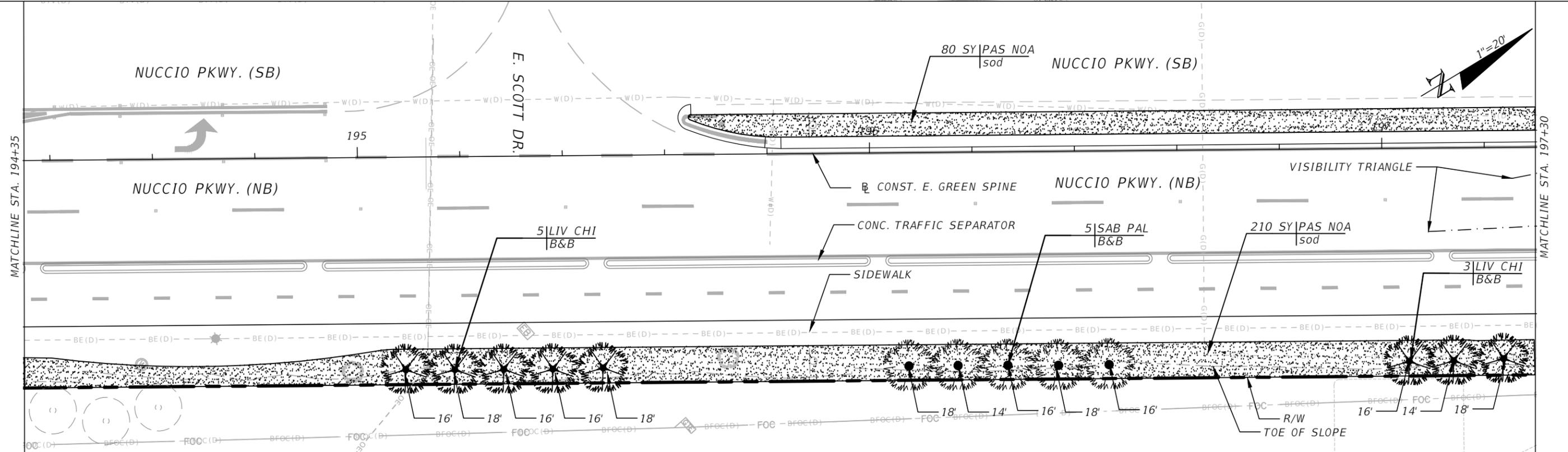
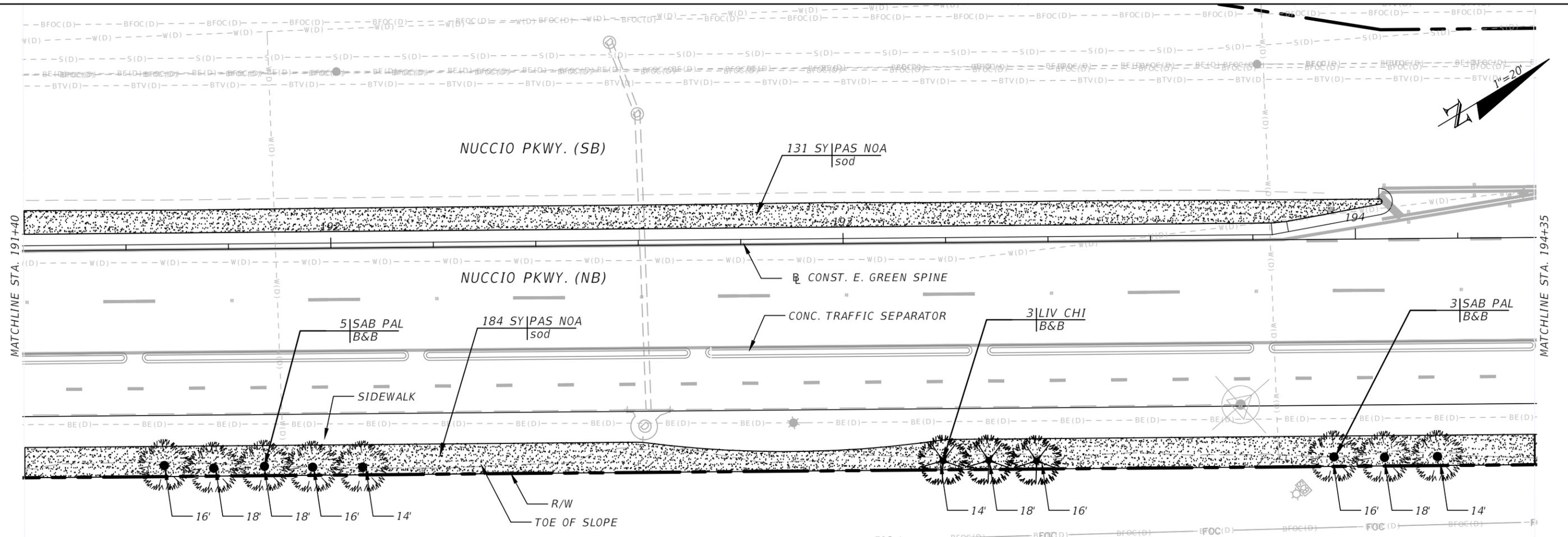
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CITY OF TAMPA TRANSPORTATION AND STORMWATER SERVICES DEPARTMENT		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
OFF-SYS	HILLSBOROUGH	439476-2-58-01

PLANTING PLANS (2)

SHEET NO.
 LD-11

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

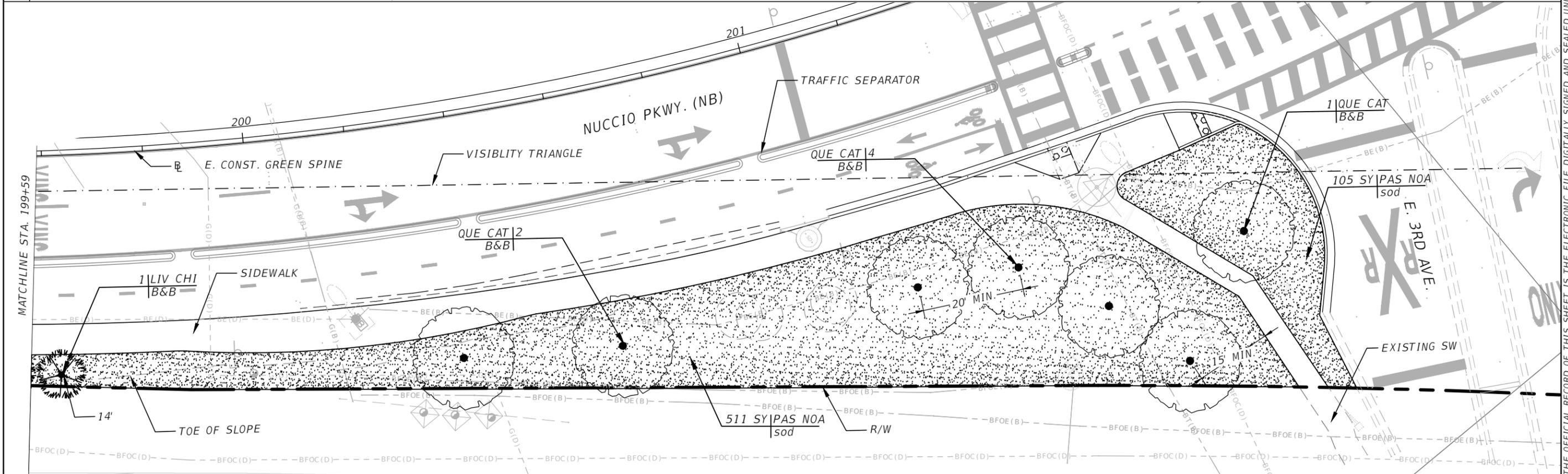
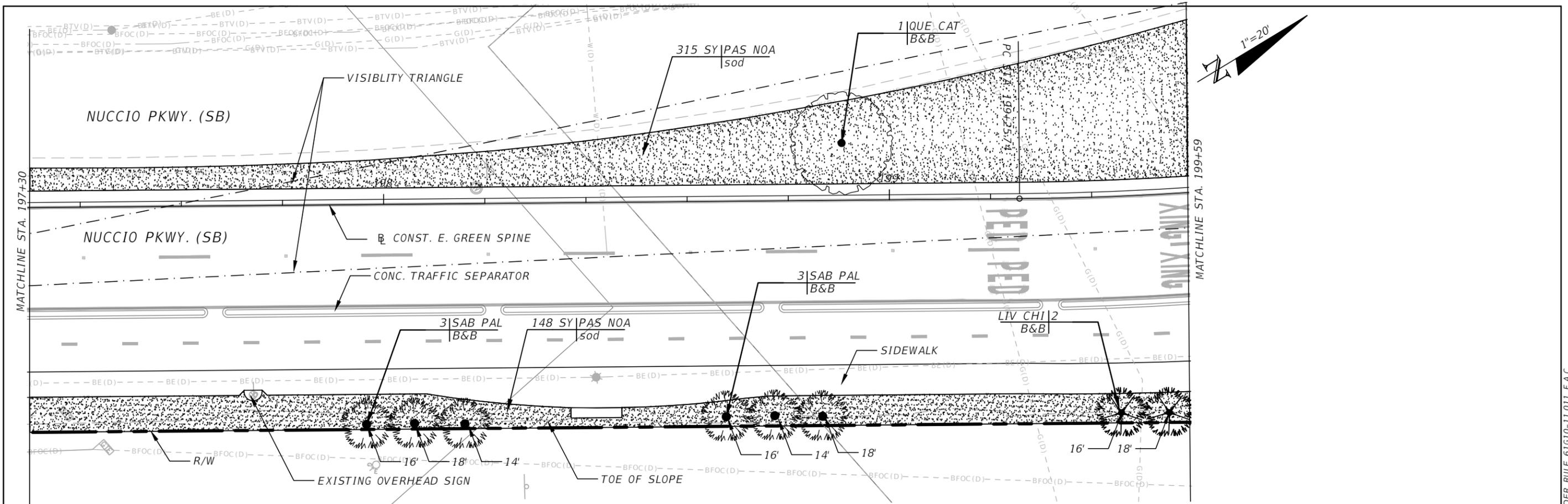
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CITY OF TAMPA TRANSPORTATION AND STORMWATER SERVICES DEPARTMENT		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
OFF-SYS	HILLSBOROUGH	439476-2-58-01

PLANTING PLANS (3)

SHEET NO.
LD-12

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REVISIONS			
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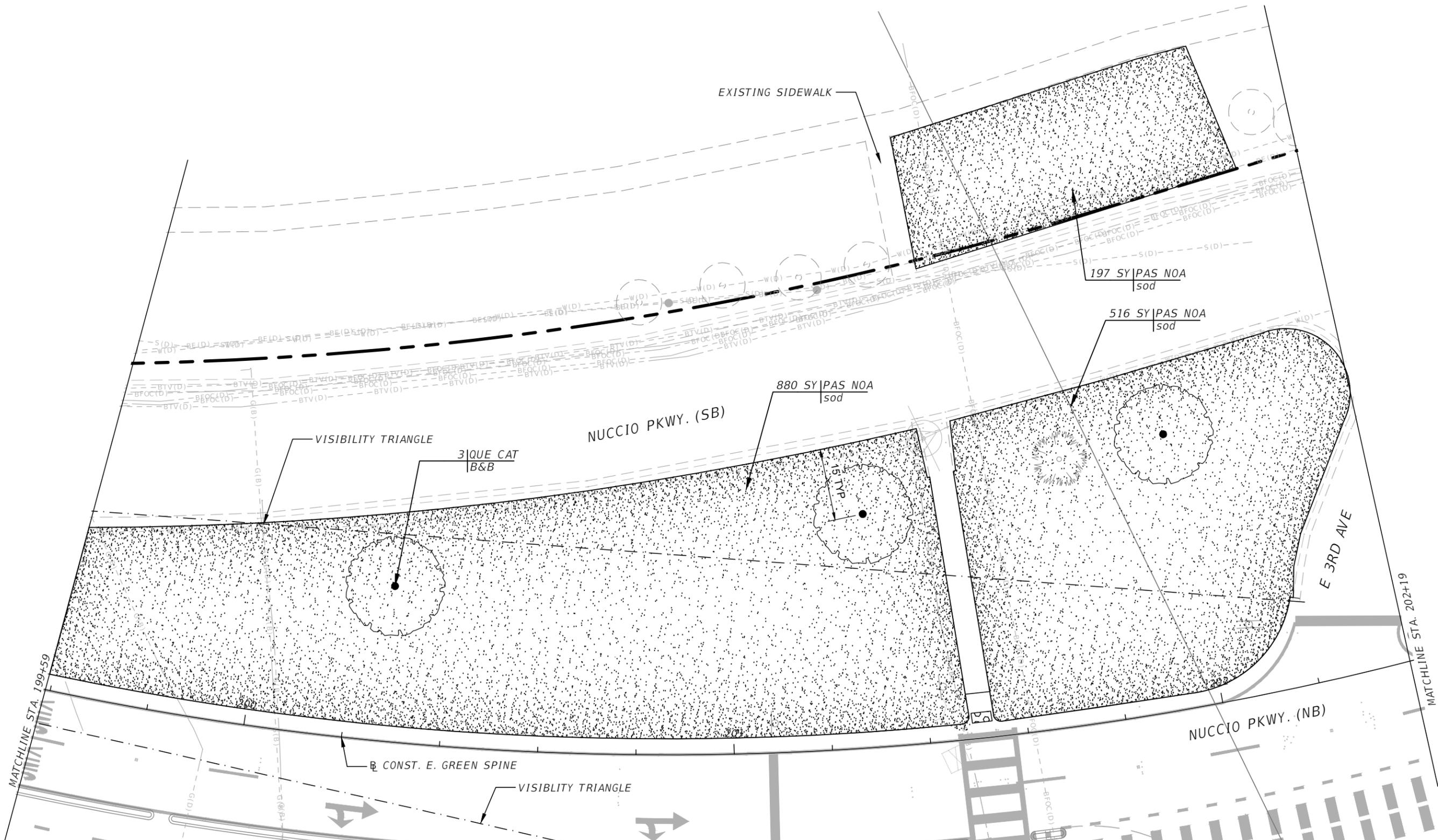
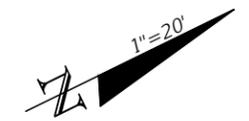
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CITY OF TAMPA TRANSPORTATION AND STORMWATER SERVICES DEPARTMENT		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
OFF-SYS	HILLSBOROUGH	439476-2-58-01

PLANTING PLANS (4)

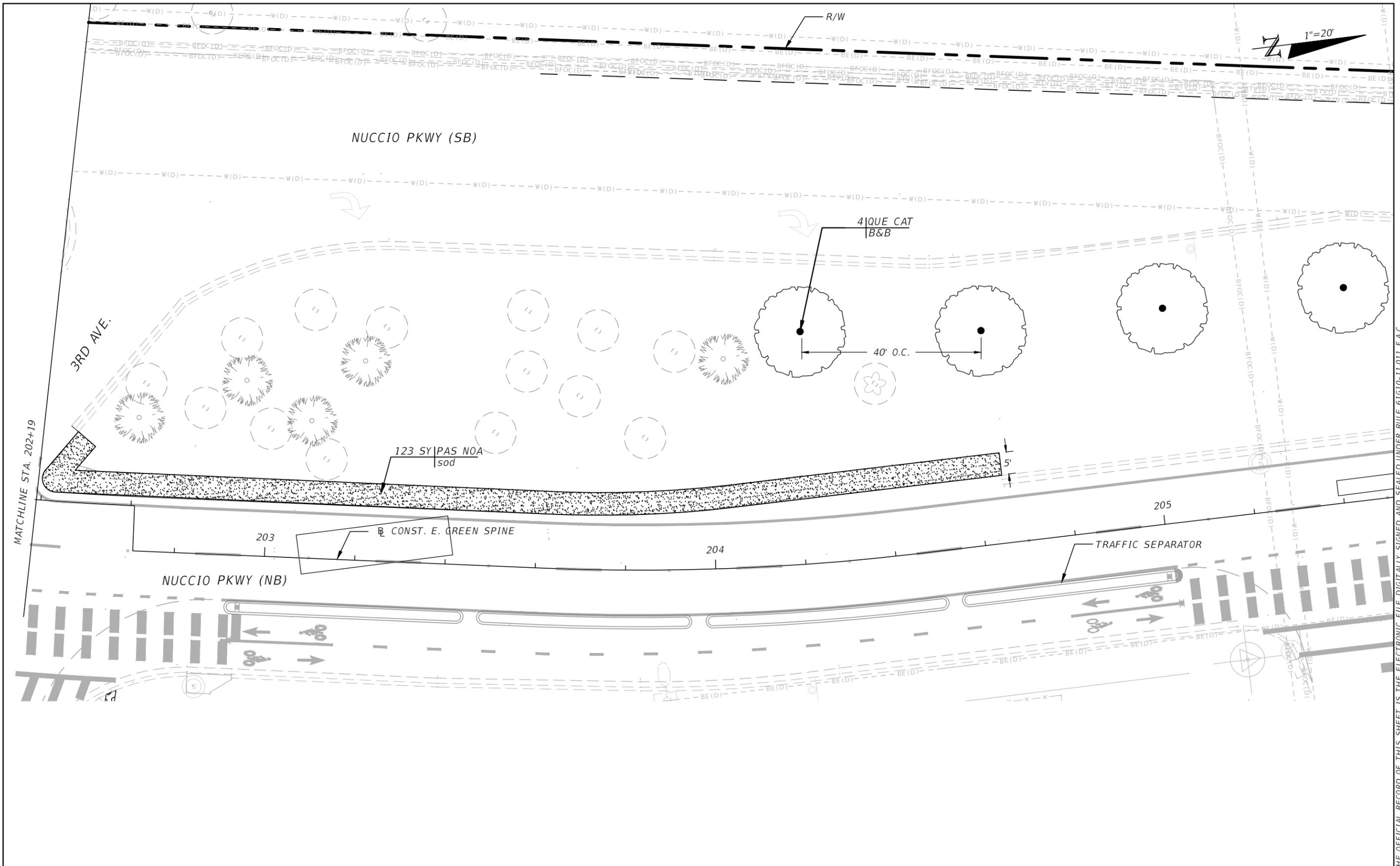
SHEET NO.
LD-13

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					OFF-SYS	HILLSBOROUGH	439476-2-58-01		

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MATCHLINE STA. 202+19

1"=20'

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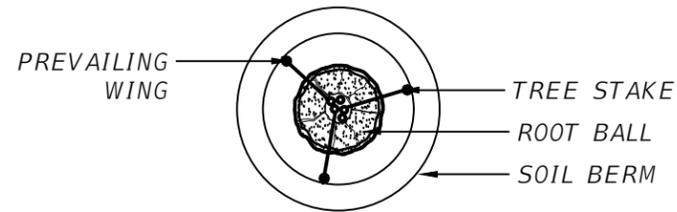
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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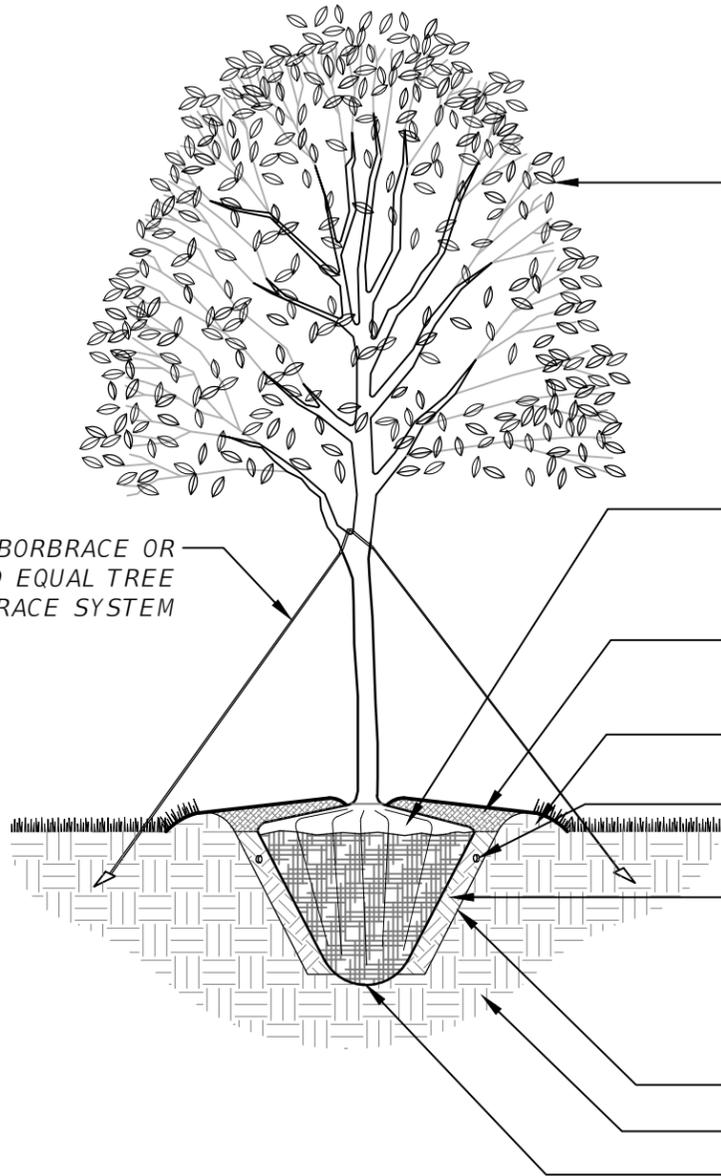
CITY OF TAMPA TRANSPORTATION AND STORMWATER SERVICES DEPARTMENT		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
OFF-SYS	HILLSBOROUGH	439476-2-58-01

PLANTING PLANS (6)

SHEET NO.
LD-15



STAKING PLAN



DO NOT HEAVILY PRUNE THE TREE AT PLANTING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS, AND BROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED AS WELL. DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN. ALL TREES SHALL BE FREE OF OPEN WOUNDS AND WOUNDS SCARS IN THE CLEAR TRUNK AREA

REMOVE BURLAP FROM TOP AND TOP 3" PERIMETER OF ROOT BALL. REMOVE ALL STRAPS AND SYNTHETIC BURLAP COMPLETELY. CUT AND REMOVE WIRE BASKET A MIN. DEPT OF 4" BELOW TOP OF ROOT BALL.

FILL SOIL RING WITH 2"-3" DEPTH MULCH. DO NOT ALLOW MULCH TO BE PLACED AGAINST THE TRUNK

ROUND-TOPPED SOIL BERM 4" X 8" WIDE ABOVE ROOT BALL SURFACE CONSTRUCTED AROUND ROOT BALL. BERM SHALL BEGIN AT ROOT BALL PERIPHERY

TIME-RELEASE FERTILIZER. PROVIDE TABLET IN QUANTITY RECOMMENDED BY MANUFACTURER FOR SIZE OF TREE.

PLANTING SOIL MIX PER SPECIFICATION BLENDED ONSITE WITH NATIVE SOIL AT 1:2 RATIO (PLANTING SOIL : NATIVE SOIL). LIGHTLY TAMP SOIL AROUND THE ROOT BALL TO REMOVE AIR POCKETS. DO NOT OVER COMPACT. WHEN THE PLANT HOLE HAS BEEN BACKFILLED WATER JET THE PLANTING SOIL TO REMOVE ANY REMAINING AIR POCKETS AND STABILIZE THE ROOTBALL. FILL PLANT RING WITH WATER TO TOP OF PERIMETER SOIL RING AND ALLOW TO PERCOLATE INTO THE SOIL.

SLOPE SIDES OF SOIL

EXISTING SOIL

PLACE TREE ON UNDISTURBED BOTTOM OF PIT. WHERE POOR DRAINAGE OR UNDERGROUND WATER IS SUSPECTED CONTACT LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

NOTES:

- 1) PULL MULCH AWAY FROM TRUNK OF TREE. NO MORE THAN 1" OF MULCH ON TOP OF ROOT BALL.
- 2) APPLY PRE-EMERENT HERMICIDE TO ALL PLANTING BEDS PRIOR TO APPLYING MULCH.

1

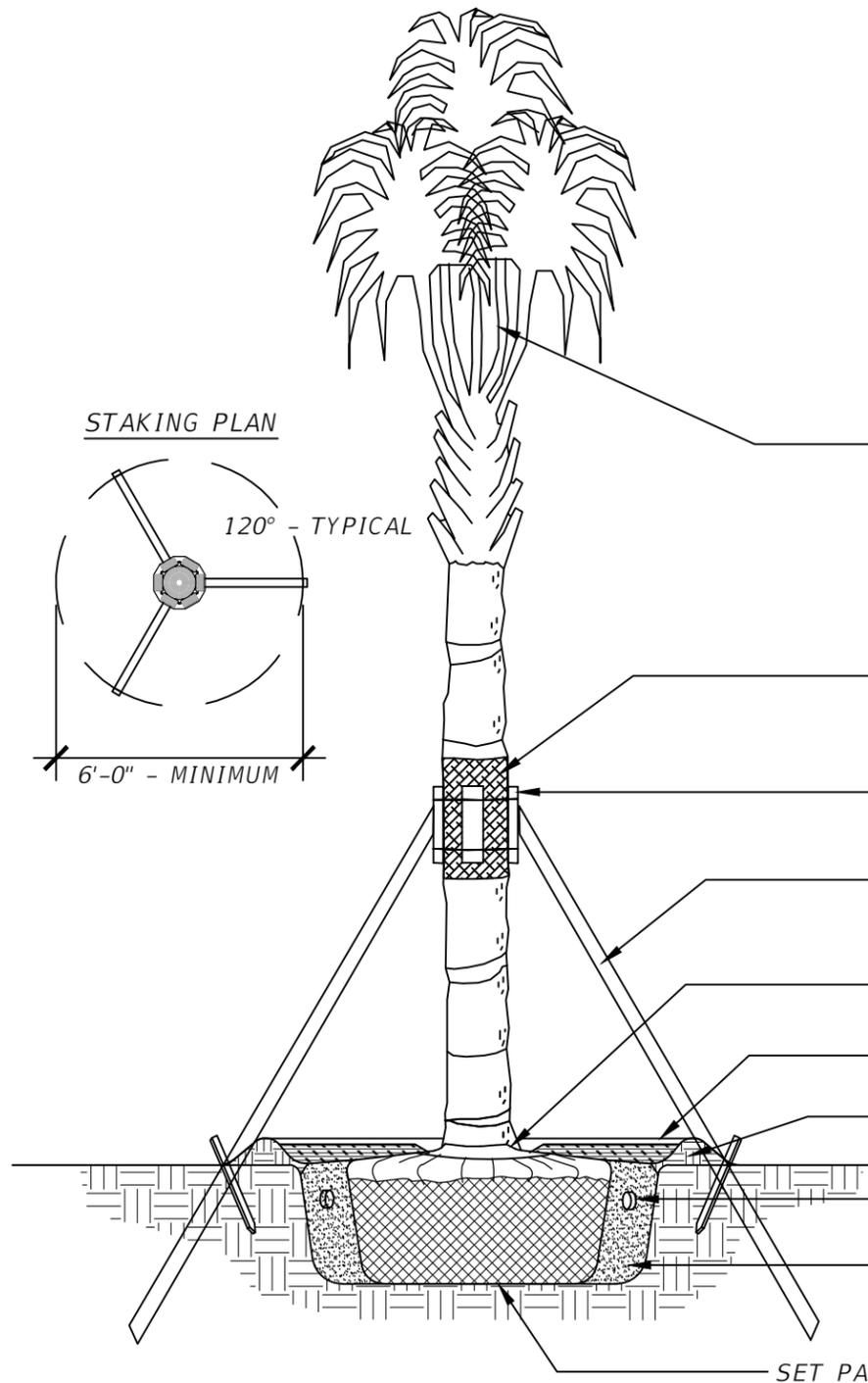
LARGE TREE PLANTING

1/4" = 1'-0"

DCA-GR-09

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
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CROWN AND TRUNK

PALM FRONDS SHALL BE TIED UP UNTIL AFTER PLANTING. TIES SHALL BE REMOVED AFTER PLANTING AS DIRECTED IN THE FIELD AND AGREED UPON BETWEEN THE OWNER, LANDSCAPE ARCHITECT AND LANDSCAPE CONTRACTOR SUCH THAT THE PALM IS FULLY ACCLIMATED TO THE PROJECT SITE.

REMOVE ALL DEAD OR BROKEN FRONDS. NEVER CUT BUD. ALL TRUNKS SHALL BE PROTECTED DURING TRANSPORT FROM DAMAGE. DAMAGED PALMS WILL BE REJECTED.

TIE FRONDS DURING TRANSPORT. REMOVE ALL TIES AFTER INSTALLATION.

THREE (3) LAYERS OF BURLAP LOOSELY WRAPPED AROUND PALM TO ALLOW AIRFLOW TO TRUNK.

SIX (6) 2" X 4" X 12" P.T. WOOD BATTENS WITH TWO (2) STEEL BANDS TO SECURE BATTENS. PAINT DARK BROWN.

THREE (3) 2" X 4" P.T. WOOD BRACES TOE NAIL TO BATTENS. DRIVE BRACES INTO UNDISTURBED EARTH. PAINT DARK BROWN.

SET TOP OF ROOT BALL 2" ABOVE FINISH GRADE.

2"-3" MULCH, DO NOT PLACE MULCH AGAINST TRUNK OF PALM

6" SOIL BERM

TIME-RELEASE FERTILIZER. PROVIDE TABLET IN QUANTITY RECOMMENDED BY MANUFACTURER FOR SIZE OF TREE.

12" PLANTING SOIL AROUND PERIMETER OF ROOT BALL.
PLANT BACKFILL: 1 PART PLANTING SOIL, 4 PARTS NATIVE SOIL

SET PALM ROOT BALL ON STABLE NATIVE SOIL TO PREVENT SETTLING.

NOTE: APPLY PRE-EMERGENT HERBICIDE PRIOR TO APPLYING MULCH

1

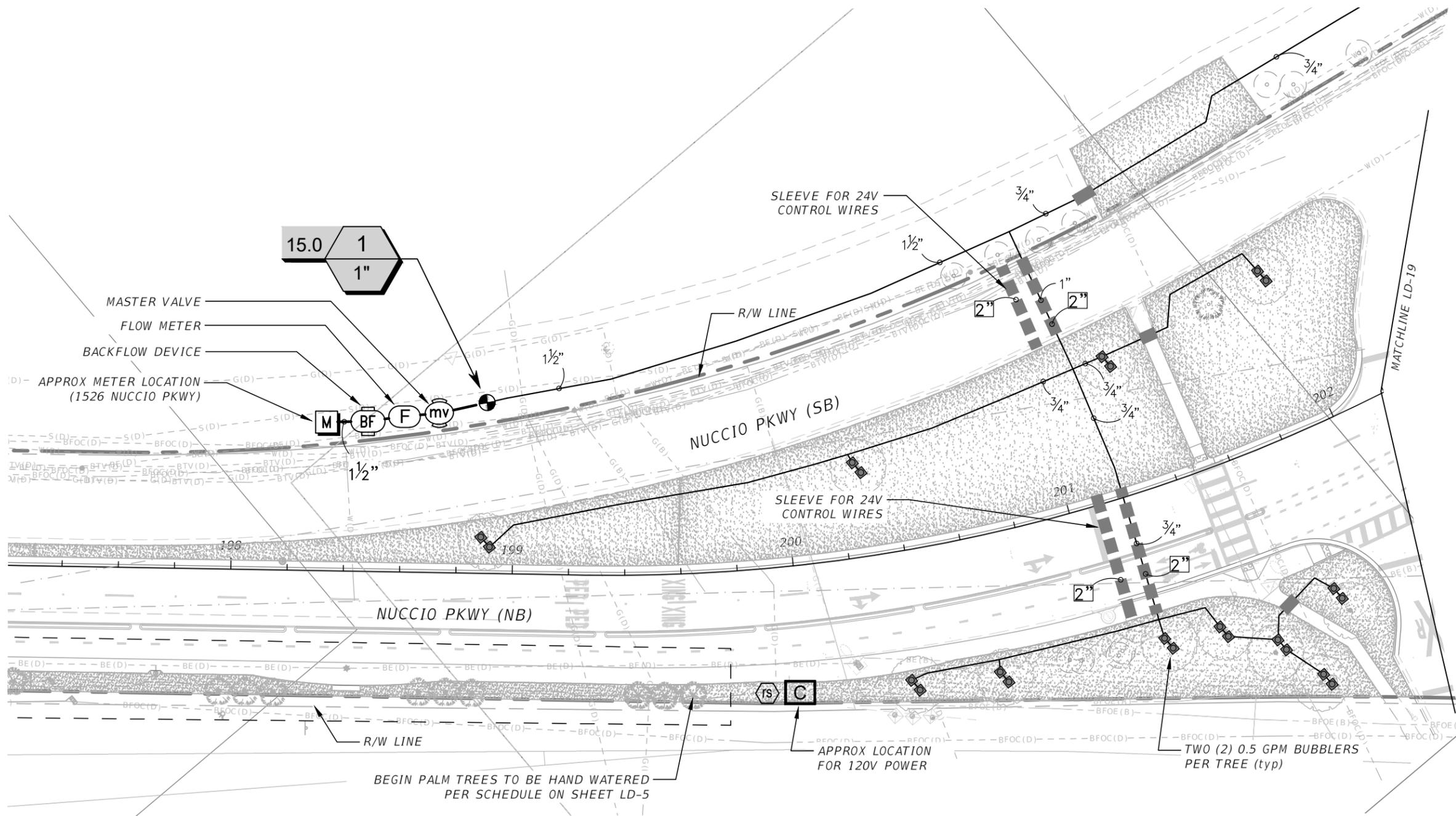
PALM STAKING

1/2" = 1'-0"

003293-25

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID R. CONNER, RLA
LA0001327
DAVID CONNER + ASSOCIATES
100 E. MADISON ST, SUITE 200
TAMPA, FL 33602
CERT. OF AUTHORIZATION LC0000319

CITY OF TAMPA TRANSPORTATION AND STORMWATER SERVICES DEPARTMENT		
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IRRIGATION PLANS (1)

SHEET NO.
LD-18

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IRRIGATION SCHEDULE

IRRIGATION SCHEDULE

SYMBOL

MANUFACTURER/MODEL/DESCRIPTION



Irritrol 214B
Electric Remote Control Valve, globe/angle configuration



Irritrol 200 Series Valve 1-1/2"
1", 1-1/2", 2" Electric Master Valve, Globe.



Febco 765 1-1/2"
Pressure Vacuum Breaker, brass with ball valve SOV. Install 12" (305MM) above highest downstream outlet and the highest point in the downstream piping.



Motorola #IRRInet-M AC 16 Station Controller
See Irrigation Notes and Details



Hunter MINI-CLIK
Rain Sensor, mount as noted



Flow Sensor w/ 10 gpm electrical output register
See Irrigation Notes and Details



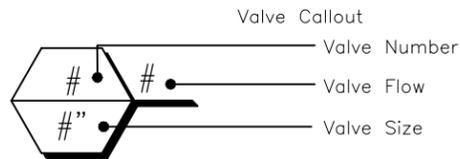
Water Meter 2"
Existing Irrigation Meter, 15 GPM at 50 PSI Required

—————
Irrigation Lateral Line: PVC Schedule 40

Irrigation Mainline: PVC Schedule 40

|||||
Pipe Sleeve: PVC Class 200

Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.

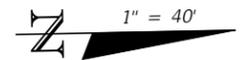
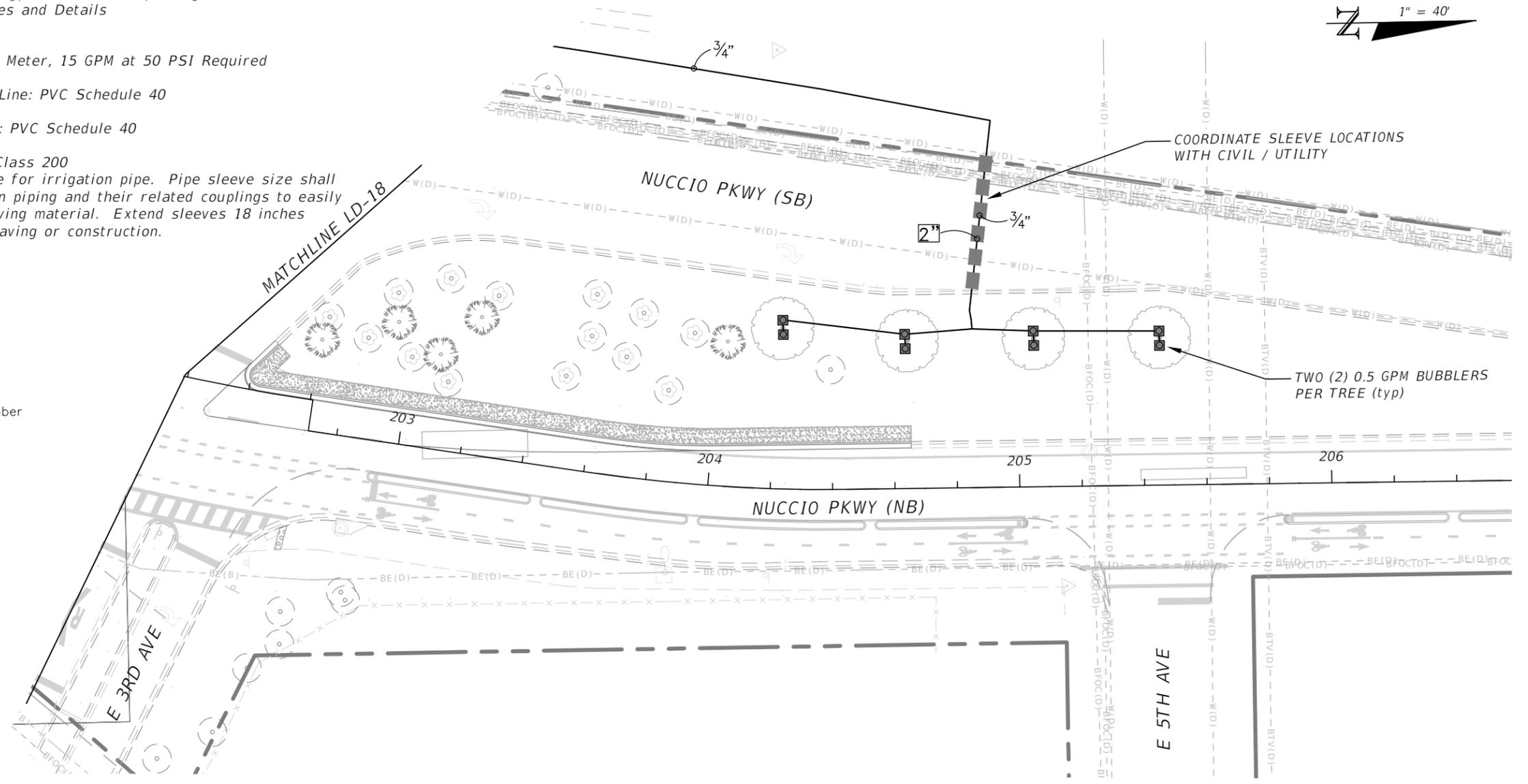


SYMBOL

MANUFACTURER/MODEL/DESCRIPTION



Rain Bird 1800-1400 Flood 1401
Fixed flow rate (0.25-2.0GPM), full circle bubbler, 1/2" FIPT.



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IRRIGATION NOTES:

1. Irrigation system design requirements: 15 GPM @ a minimum of 50 PSI at the point of connection. The Irrigation Contractor shall verify the available GPM and PSI prior to installation of the system.
2. Do not willfully install the irrigation system as shown on the drawings when it is obvious in the field that conditions exist that might not have been considered in the design process. For example : obstructions, grade differences, water levels, dimensional differences, etc. Refer to the Landscape Plan to avoid conflicts with proposed trees or shrubs.
3. Piping may sometimes be indicated as being located in unlikely areas: i.e., under buildings or pavement, outside of property lines, in lakes or ditches, etc. This is done for graphic clarity only. Whenever possible, piping is to be installed in open, green" areas.
4. If required, the Irrigation Contractor shall provide the necessary "Right of Way" use permits.
5. Pipe sizes shall conform to those on the drawings. Substituting with smaller pipe sizes will not be permitted. Minimum pipe size shall be 3/4". Maximum velocity shall be 4 FPS.
6. Mainline is to be installed with a minimum of 24" depth of cover. Lateral lines are to be installed with a minimum of 12" depth of cover.
7. Unless otherwise indicated, all sleeves are to be PVC Sch 40 and two (2) nominal sizes larger than the pipe to be sleeved. For example: The sleeve for a 2" pipe shall be 3". No irrigation sleeve shall be smaller than 2".
8. Group remote control valves close to water source in 1 or 2 locations. All valves , flush valves and wire splices shall be installed in Rain Bird wide flanged, structural foam "plastic" valves boxes with "Purple" lids as follows:

Remote Control Valves	#VB-STD (16"w x 21"l x 12"h) std. rect. box
Wire Splices	#VB-10RND (13"dia. x 10"h) 10" round box
9. The bottom and sides of the valve boxes shall be lined with landscape fabric. Install a 3" deep bed of gravel on the landscape fabric to create a drainage sump.
10. All 24 volt control cable to be UL Listed, single strand, type UF 600 Volt control cable. Size and color as follows:

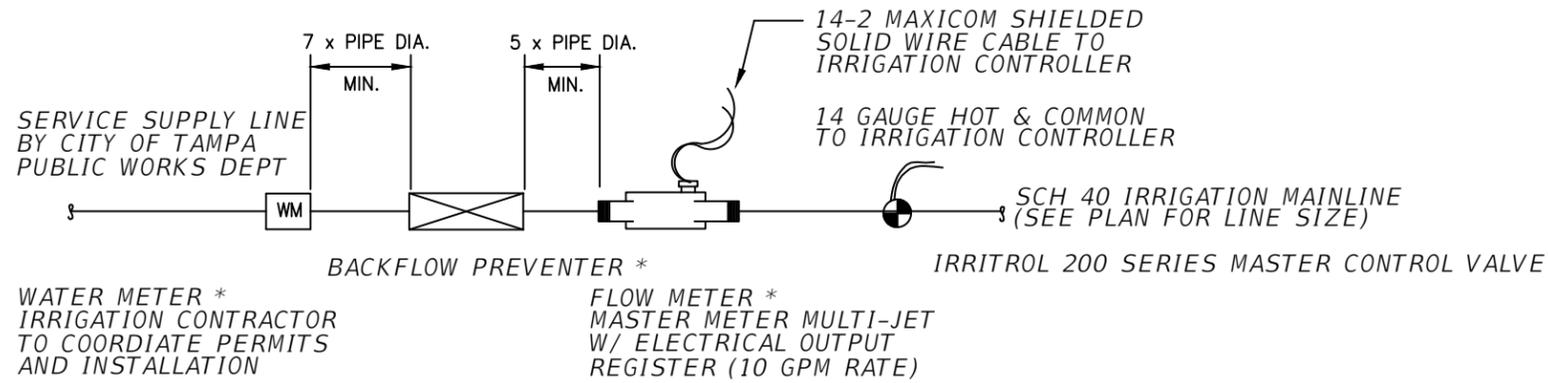
Common Wires	- size AWG #12 or larger and WHITE in color.
Hot Wires	- size AWG #14 or larger and RED in color.
Spare Wires	- size AWG #14 or larger and BLACK in color.
11. All splices to the 24 volt control wiring shall be made with King grease filled 24-600 volt, direct bury splice kits.
12. All control valve wires shall be bundled and taped together at 20' intervals and placed along the underside of the mainline pipe.
13. All pop-up sprinkler heads shall be installed level and flush to grade. Mount all sprinklers on flexible connections as follows:

1/2" inlet spray heads 18" of Heavy Wall PVC IPS Hose

18. Exact controller location(s) shall be coordinated with an Owner's Representative prior to installation. Unless otherwise stated, the General Contractor shall provide 110 volt power to the controller location(s). The Irrigation Contractor is responsible for the connection from the power source to the controller(s). For outdoor mounted controllers, the 110 volt service to the irrigation controller shall be in conduit. All 110 volt electrical work shall meet Local Code.
19. At each irrigation controller, install a "secondary surge arrester" to the incoming (120 volt) power supply (Intermatic #AG2401 or equal) and ground rod < 10 meg.
20. Rain Switch - a rain switch shall be connected to each irrigation controller. The switch shall be installed to meet local codes and/or minimum manufacturer's recommendations. Obstructions, vandalism and ease of service shall be considered in locating the device.
21. The IRRIGATION CONTRACTOR shall prepare a digitally reproducible AS-BUILT drawing detailing the actual installation of the irrigation system. The AS-BUILT drawings shall locate all main line piping, control wires, wire splices, sleeves and valves by showing exact measurements from permanent features (buildings, edge of pavement, power poles, fire hydrants, etc.). Include depth of cover on mainline and sleeves.
22. No product substitutions will be permitted without the written permission of the Owner's Representative. Irrigation Contractor to provide submittals to the Owner's Representative for approval prior to installation.
23. Any other equipment required that is not other wise detailed or specified shall be installed as per manufacturer's recommendations and local code.
24. All material used in the construction / modification of the irrigation system must conform to City of Tampa Irrigation Standards.
25. The Contractor is responsible for permitting and installation of all water meters and electric meters. System shall be transferred to the City of Tampa upon acceptance of the system.

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		LD-20
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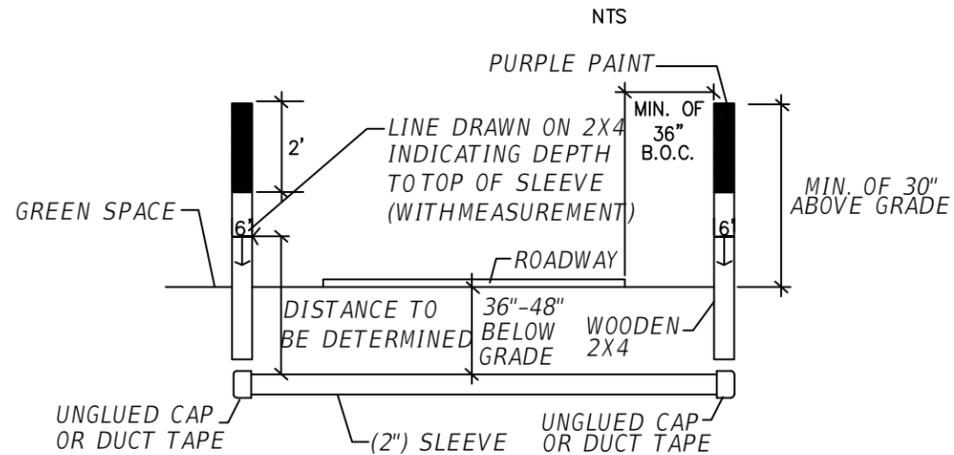
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* - COMPONENTS SIZED AS NEEDED

NOTE: ALL COMPONENTS TO BE INSTALLED PER LOCAL CODE AND MANUFACTURER RECOMMENDATIONS. FLOW METER AND MASTER VALVE TO BE INSTALLED IN SEPARATE VALVE BOXES

METER ASSEMBLY SCHEMATIC

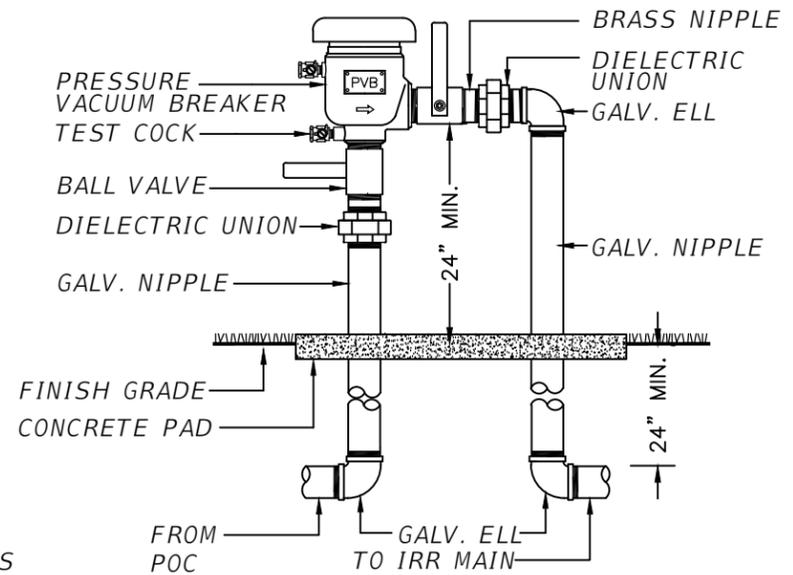


SLEEVE NOTES

1. SLEEVE SHALL BE SCHEDULE 40 PVC.
2. DEPTH TO BE MINIMUM OF 24" BELOW PAVING SUBGRADE & MAXIMUM OF 36" BELOW PAVING SUBGRADE. IN NO CASE SHALL THE TOP OF SLEEVE PIPE BE GREATER THAN THREE (3') BELOW FINAL GRADE (TOP OF ASPHALT OR BACK OF CURB).
3. ENDS OF PIPE TO EXTEND 24" TO 36" BEYOND BACK OF CURB (OR BACK OF SIDEWALK IF SIDEWALK IS BUILT TO CURB).
4. ENDS OF PIPE TO BE TAPED OFF WITH DUCT TAPE.
5. CONTRACTOR SHALL STAKE BOTH ENDS OF EACH CROSSING (WITH 8', 2 X 4, TOP PAINTED PURPLE) AND ACCURATELY AS-BUILD (DIMENSION FROM FIXED OBJECTS OR STRUCTURES) IN CASE STAKES ARE REMOVED.
6. SHOULD STAKES NOT BE PRESENT WHEN IRRIGATION CONSTRUCTION BEGINS, AND NO ACCURATE AS-BUILD BE AVAILABLE, OF THE SLEEVES. THE SLEEVE INSTALLATION CONTRACTOR SHALL BE RESPONSIBLE FOR RETURNING TO THE SITE AND EXCAVATING BOTH ENDS OF THE SLEEVES.
7. THE SLEEVE SHALL BE INSTALLED IN A STRAIGHT LINE WITH PROPOSED IRRIGATION PIPING, LEAVING NO OBSTRUCTION (I.E. UNDER DRAIN, FORCE MAIN, SEWER LINE, POWER CABLE, FOOTER, ETC.) AT EITHER END OF THE SLEEVE.

SLEEVE DETAIL

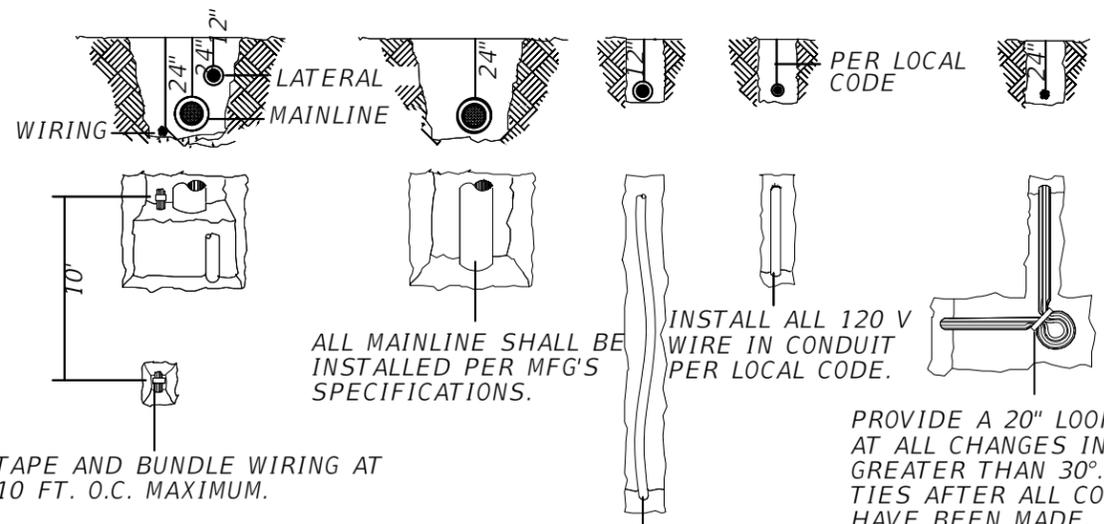
NTS



BACKFLOW PREVENTOR

NTS

MAIN SUPPLY, LATERAL AND WIRING. MAIN SUPPLY LATERAL 120 VOLT WIRING

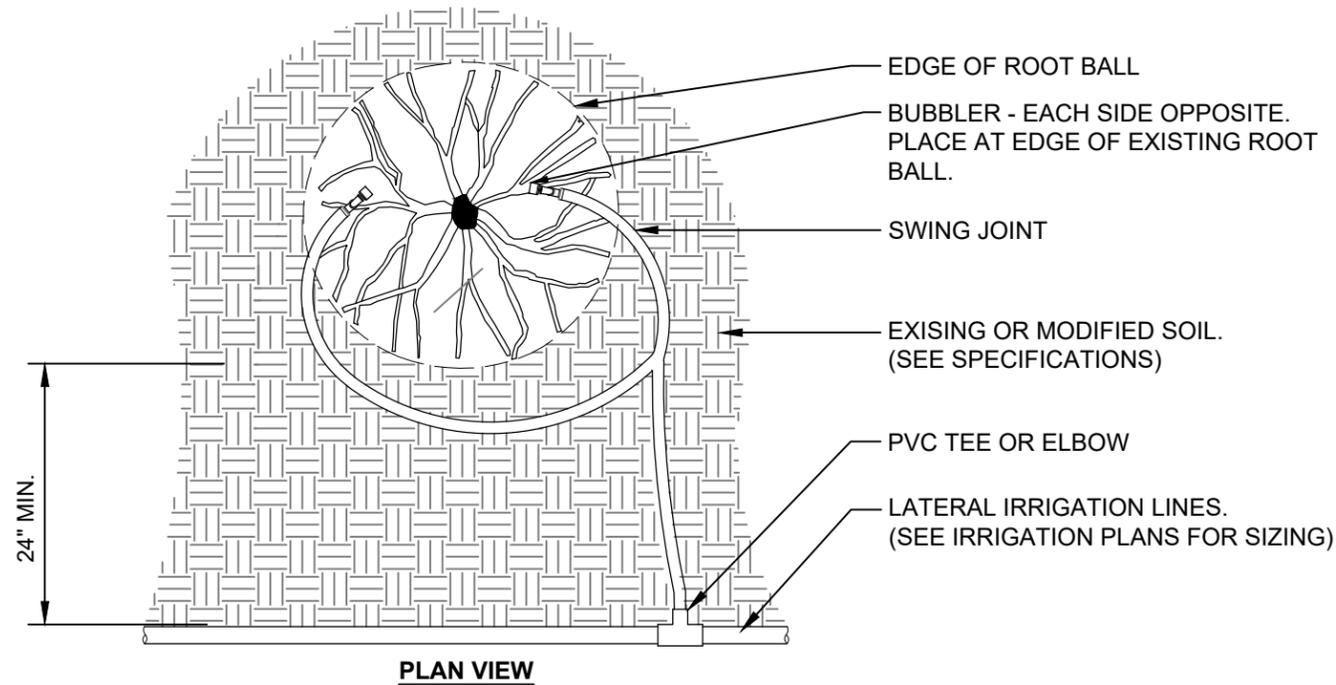
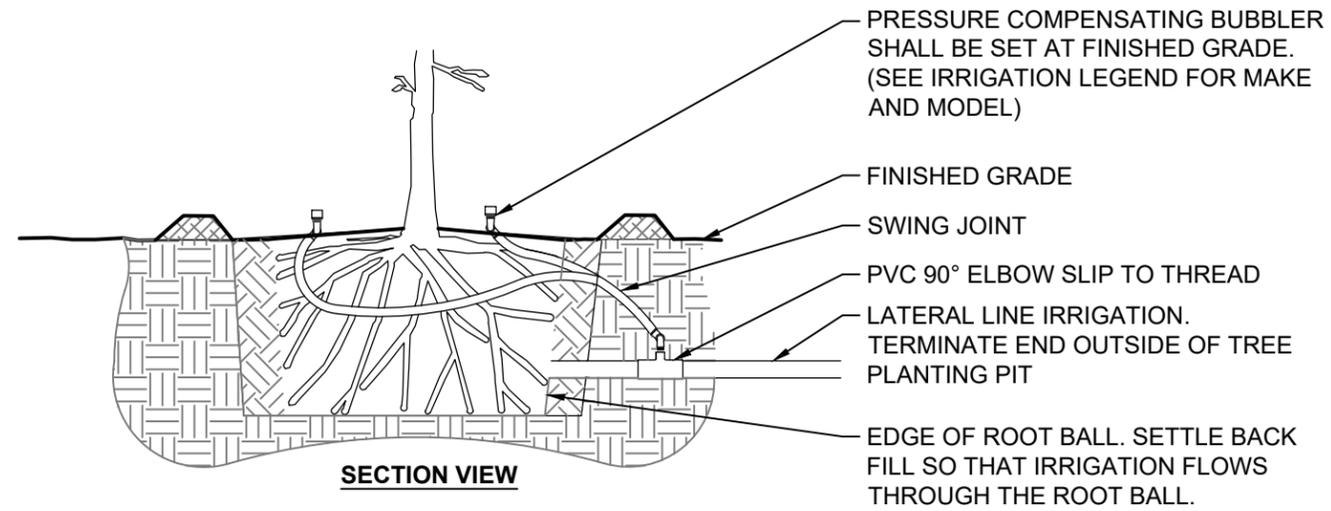


TRENCH DETAIL

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1 IRRIGATION BUBBLER AT TREE (2/TREE)
3/4" = 1'-0"

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		LD-22
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