CITY OF TAMPA
MOBILITY DEPARTMENT

CONTRACT PLANS

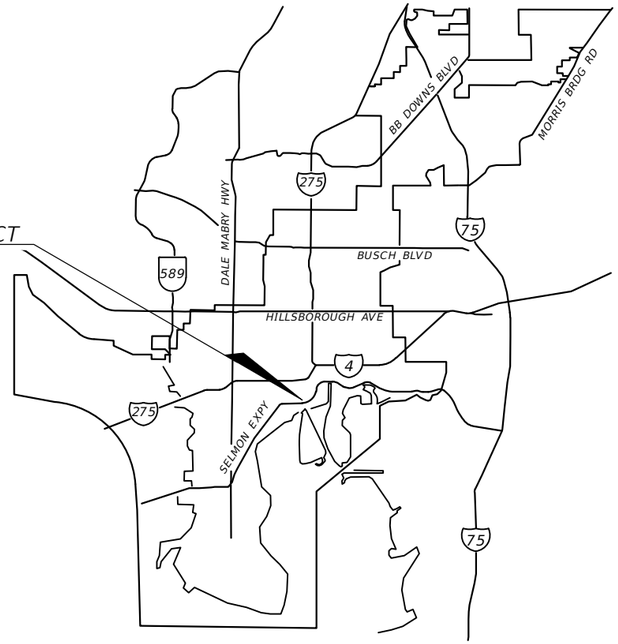
FINANCIAL PROJECT ID 439476-4-58-01
(FEDERAL FUNDS)

E/W GREEN SPINE CYCLE TRACK -
PH. 3C FROM 13TH AVE. TO 21ST AVE.

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-9	SIGNING AND MARKING PLANS

LOCATION OF PROJECT



SIGNING AND PAVEMENT MARKING PLANS

FINAL SUBMITTAL
SEPTEMBER 24, 2021

M. FATHY ABDALLA
No.63914
STATE OF FLORIDA
PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY
Mohamed F Abdalla
2021.09.27 16:41:43 -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
FATHY ABDALLA, P.E. NO. 63914

CITY OF TAMPA PROJECT MANAGER:

NINA S. MABILLEAU E.I.

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
21-C-00022	2021	S-1

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

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			15TH STREET FROM 13TH AVE TO 21ST STREET																	
			S-5		S-6		S-7		S-8		S-9									
			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			70		58										128			
654-2-21	RECTANGULAR RAPID FLASHING BEACON, FURNISH & INSTALL- SOLAR POWERED, COMPLETE SIGN ASSEMBLY- SINGLE DIRECTION	AS			2												2			
700-1-11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	1		6		2		1								10			
700-1-12	SINGLE POST SIGN, F&I GROUND MOUNT, 12-20 SF	AS					1										1			
700-1-18	SINGLE POST SIGN, F&I GROUND MOUNT, IN-STREET FLEXIBLE POST SIGN	AS	1		4		3										8			
700-1-50	SINGLE POST SIGN, RELOCATE	AS					4		2								6			
700-1-60	SINGLE POST SIGN, REMOVE	AS			2		5		1								8			
705-11-3	DELINEATOR, FLEXIBLE HIGH VISABILITY MEDIAN	EA	1		9		5										15			
710-90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	LS																		
*	RAISED PAVEMENT MARKER, TYPE B	EA	2		8		30		50								90			
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM			0.123		0.185		0.227		0.127						0.662			
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR INTERCHANGE AND URBAN ISLAND, 8"	GM			0.003		0.003		0.069		0.040						0.115			
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	LF			68		510				174						752			
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR DIAGONAL OR CHEVRON, 18"	LF					9		182		116						307			
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	LF	4		119		617		38		188						966			
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP, 10-30 OR 3-9 SKIP, 6" WIDE	GM	0.023		0.106		0.045				0.061						0.235			
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-4 DOTTED GUIDELINE, 6"	GM			0.151		0.104										0.255			
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, MESSAGE OR SYMBOL	EA	2		8		10										20			
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	EA	2		8		11										21			
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM	0.028		0.049		0.077		0.032		0.008						0.194			
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID FOR DIAGONAL OR CHEVRON, 18"	LF	138		288		42										468			
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SKIP, 6"	GM	0.018		0.059		0.045										0.122			
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, ISLAND NOSE	SF	4		25		15										44			
711-11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF			68		510				174						752			
711-11-124	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18" FOR DIAGONALS AND CHEVRONS	LF					9		182		116						307			
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF	4		119		107		38		28						294			
711-11-141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 GAP EXTENSION, 6"	GM			0.151		0.104										0.255			
711-11-160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE OR SYMBOL	EA					3										3			
711-11-170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA	2		8		11										21			
711-11-224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF	138		288		42										468			
711-14-125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF					510				160						670			
711-14-160	THERMOPLASTIC, PREFORMED, WHITE, SYMBOL (BIKE)	EA	2		8		7										17			
711-16-101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	GM			0.123		0.185		0.227		0.127						0.662			
711-16-102	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 8"	GM			0.003		0.003		0.069		0.040						0.115			
711-16-131	THERMOPLASTIC, OTHER SURFACES, WHITE, SKIP, 6",10-30 SKIP OR 3-9 LANE DROP	GM	0.023		0.106		0.045		0.108		0.061						0.343			
711-16-201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	GM	0.028		0.049		0.077		0.032		0.008						0.194			
711-16-202	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 8"	GM					0.003										0.003			
711-16-231	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SKIP, 6", 3-9 SKIP	GM	0.018		0.059		0.045										0.122			

* 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.

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

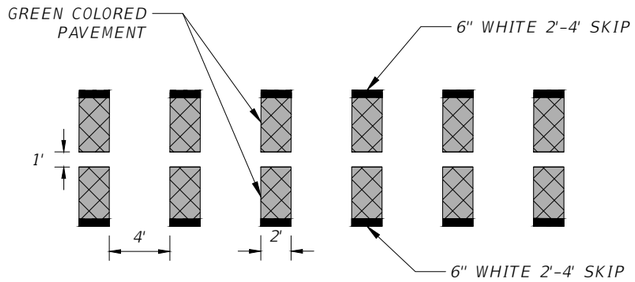
KISINGER CAMPO & ASSOCIATES CORP.
201 N FRANKLIN ST, SUITE 400,
TAMPA, FL 33602
ENGINEER OF RECORD:
FATHY ABDALLA, P.E. NO: 63914

CITY OF TAMPA
MOBILITY DEPARTMENT

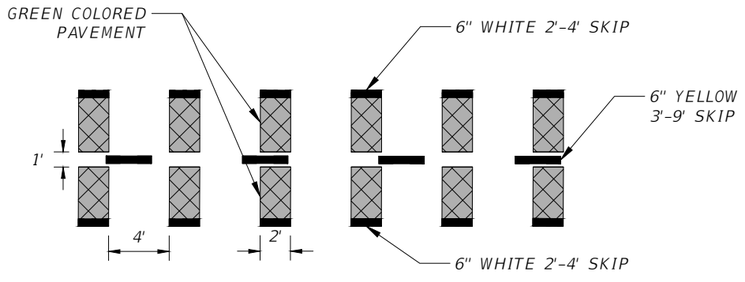
ROAD NO.	COUNTY	PROJECT DESIGN NO.
	HILLSBOROUGH	21-C-00022

TABULATION OF QUANTITIES

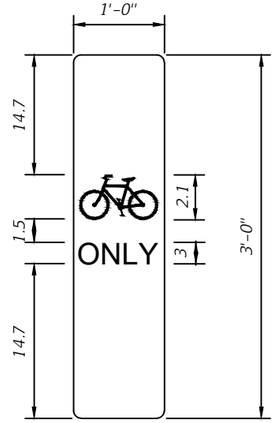
SHEET NO. S-2



TYPICAL INTERSECTION BIKE CROSSING DETAIL
(PAY ITEM 523-1-3)
(NTS)



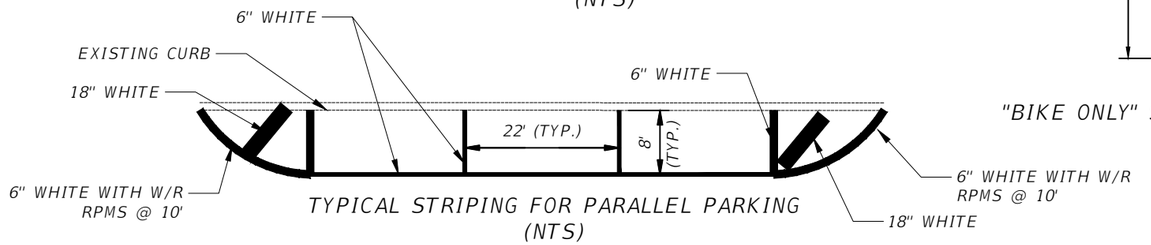
TYPICAL DRIVEWAY BIKE CROSSING DETAIL
(PAY ITEM 523-1-3)
(NTS)



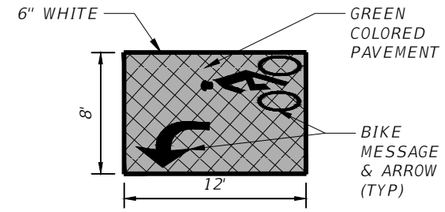
SIGN GM-1
"BIKE ONLY" SYMBOL SIGN DETAIL
(NTS)

FABRICATE SPECIAL 12"X36" "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.

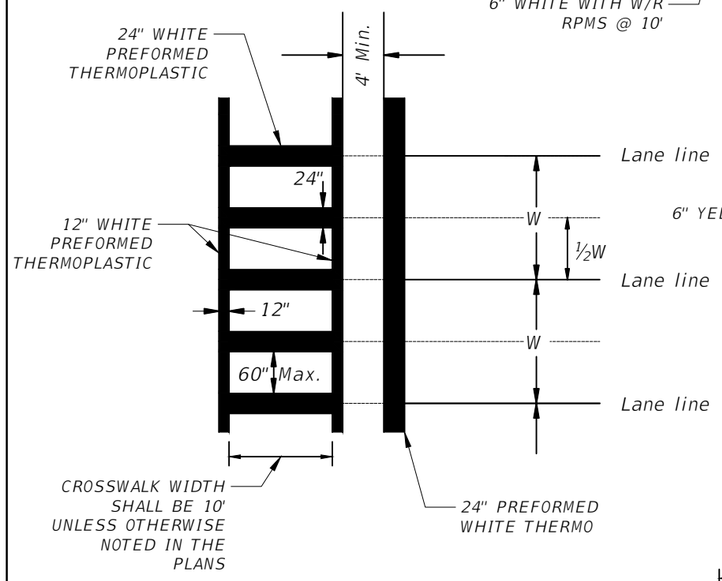
ALL COSTS ASSOCIATED WITH THE FABRICATION AND INSTALLATION OF THIS SIGN AND MOUNTING SHALL BE INCLUDED IN PAY ITEM 700-1-18.



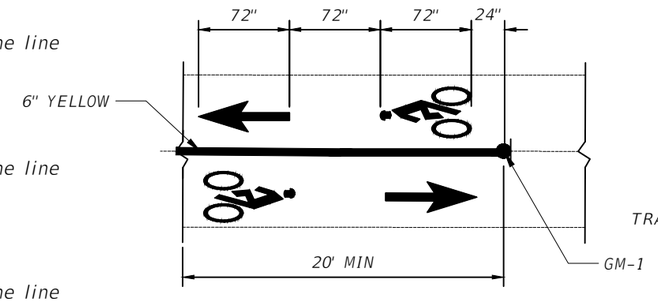
TYPICAL STRIPING FOR PARALLEL PARKING
(NTS)



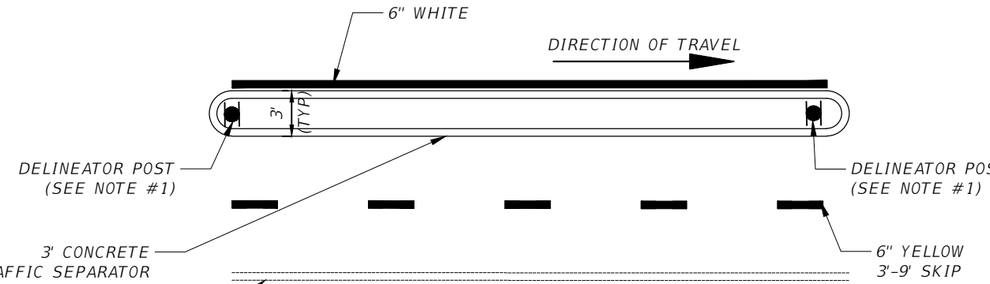
TYPICAL 2-STAGE BIKE BOX DETAIL
(NTS)



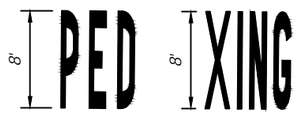
TYPICAL CROSSWALK DETAIL
(NTS)



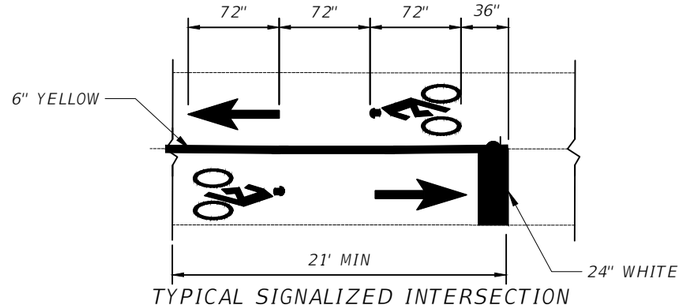
TYPICAL INTERSECTION MARKINGS DETAIL
(NTS)



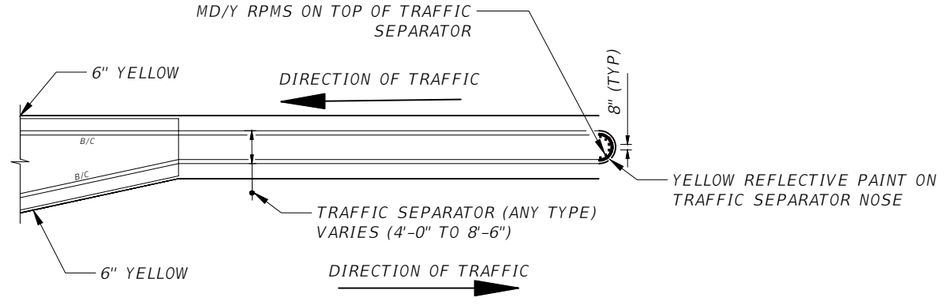
TYPICAL DELINEATOR PLACEMENT DETAIL
(NTS)



PEDESTRIAN MARKING DETAIL
(NTS)



TYPICAL SIGNALIZED INTERSECTION
MARKINGS DETAIL (NTS)



RPM PLACEMENT AT TRAFFIC SEPARATORS
DETAIL (NTS)

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

CITY OF TAMPA
MOBILITY DEPARTMENT

ROAD NO.	COUNTY	PROJECT DESIGN NO.
	HILLSBOROUGH	21-C-00022

SIGNING & PAVEMENT MARKING DETAILS

SHEET NO. S-3

Liviu Dosan 9/24/2021 10:59:05 AM

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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 PEDESTRIAN/BICYCLE WARNING SHALL BE IN ACCORDANCE WITH THE MUTCD, SECT. 1A-12, COLOR CODE "F"-FLUORESCENT YELLOW-GREEN.

3. 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.

4. 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.

5. PAY ITEM FOOT NOTE
   710-90 SHALL INCLUDE ALL PAVEMENT MARKINGS APPLICATIONS NEEDED BEFORE APPLYING THE THERMOPLASTIC APPLICATION.

6. ALL BRICK STREETS AND GRANITE CURBS SHALL BE RETAINED AND PRESERVED IN PLACE.

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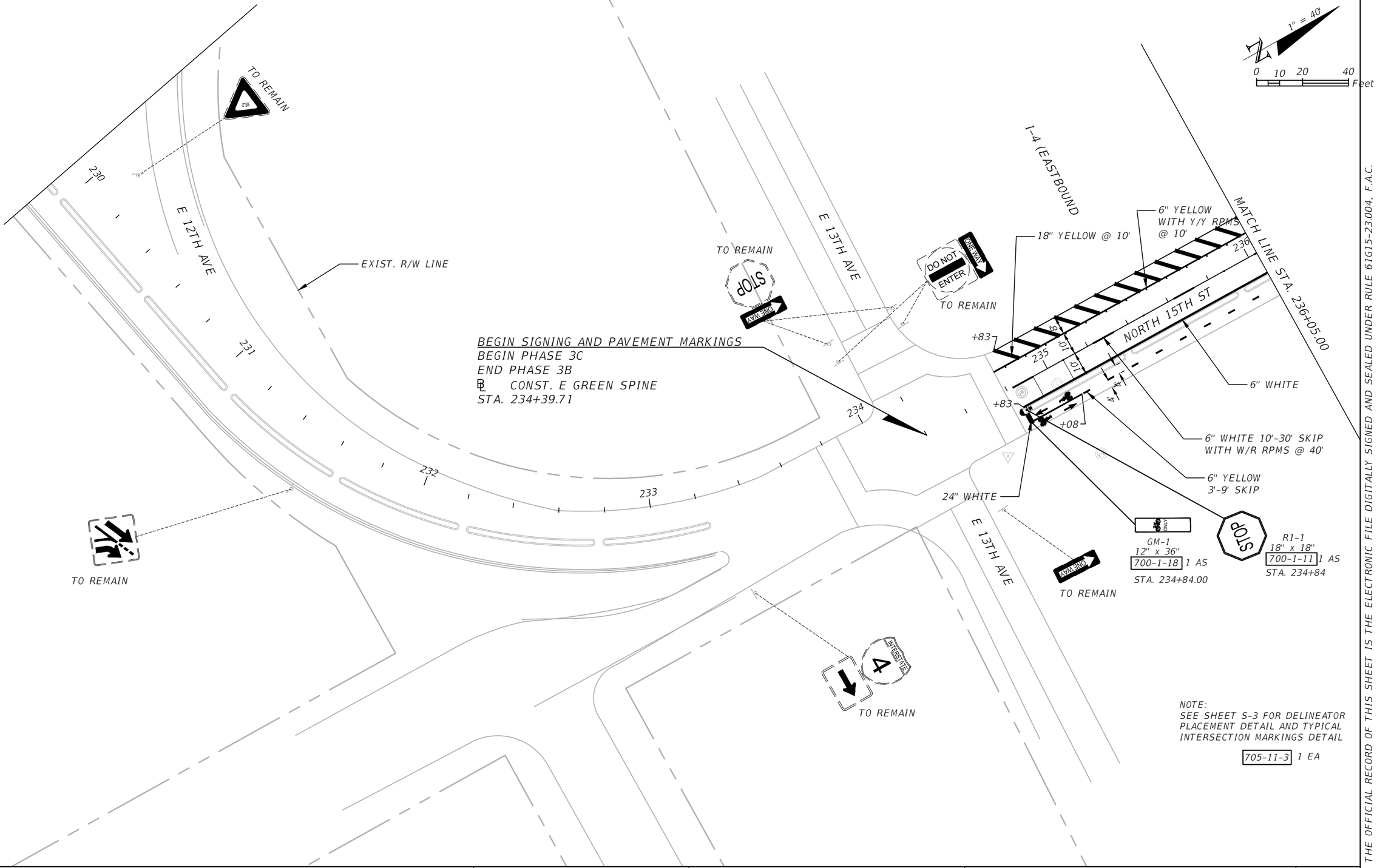
	HILLSBOROUGH	21-C-00022

GENERAL NOTES

SHEET NO.
S-4



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CITY OF TAMPA
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	HILLSBOROUGH	21-C-00022

SIGNING AND PAVEMENT MARKING PLAN (1)

SHEET NO. S-5

Liviu Dosan 9/24/2021 10:59:52 AM

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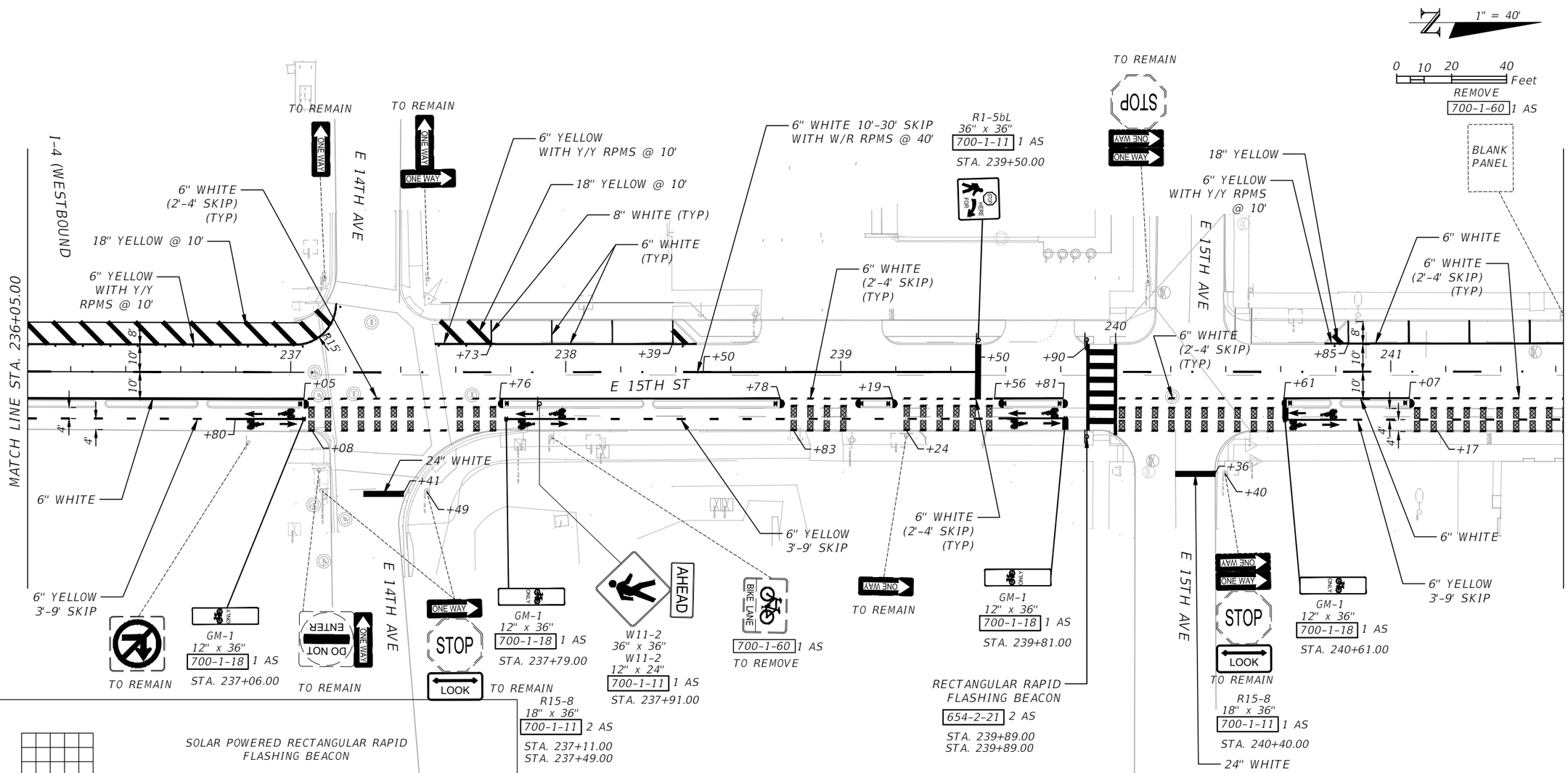

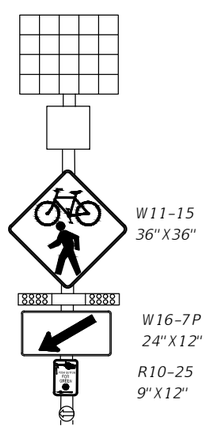

SOLAR POWERED RECTANGULAR RAPID FLASHING BEACON

NOTES:

1. SEE FDOT STANDARD PLANS INDEX 654-001 FOR RRFB DETAILS
2. EACH RRFB SHALL BE A SELF-CONTAINED SYSTEM, INCLUDING A SOLAR POWER SUPPLY AND A DIGITAL RADIO COMMUNICATION SYSTEM. THE FLASHING TIME SHALL BE SET AT 20 SECONDS.
3. REVERSE W 16-7P AND TACTILE ARROW PUSH BUTTON AS NEEDED FOR OPPOSITE SIDE.
4. REVERSE R10-25 AS NEEDED FOR OPPOSITE SIDE.

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

705-11-3 9 EA

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CITY OF TAMPA
MOBILITY DEPARTMENT

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	HILLSBOROUGH	21-C-00022

SIGNING AND PAVEMENT MARKING PLAN (2)

SHEET NO.
S-6

Liviu Dosan 9/24/2021 11:00:05 AM

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1" = 40'

0 10 20 40 Feet

MATCH LINE STA. 241+65.00

MATCH LINE STA. 247+25.00

E COLUMBUS DR

E 17TH AVE

NORTH 15TH ST

NORTH 17TH ST

RELOCATE 700-1-50 1 AS STA. 243+07

RELOCATE 700-1-50 1 AS STA. 243+07

6" YELLOW WITH Y/Y RPM'S @ 10'

18" YELLOW @ 10'

REMOVE 700-1-60 1 AS

BLANK PANEL

8" WHITE (TYP)

6" WHITE WITH W/R RPM'S @20'

6" WHITE (TYP)

6" WHITE 10'-30' SKIP WITH W/R RPMS @ 40'

YELLOW REFLECTIVE PAINT (TYP.)

GM-1 12" x 36" 700-1-18 1 AS STA. 242+80.00

24" WHITE

TO REMAIN

TO REMAIN

MAY USE FULL LANE

TO REMAIN

6" WHITE 2'-4' SKIP

24" WHITE

6" YELLOW

6" WHITE 3'-9' SKIP

6" WHITE WITH W/R RPM'S @ 20'

6" WHITE 2'-4' SKIP

6" WHITE 10'-30' SKIP WITH W/R RPMS @ 40'

GM-1 12" x 36" 700-1-18 1 AS STA. 243+57.00

R3-2 36" x 36" R6-1R 36" x 12" 700-1-12 1 AS STA. 245+02.00

GM-1 12" x 36" 700-1-18 1 AS STA. 244+92.00

TO REMAIN

6" YELLOW 3'-9' SKIP

6" WHITE 2'-4' SKIP

R03-17 36" x 36" R03-9dP 30" x 12" 700-1-11 1 AS STA. 245+05.00

TO REMAIN

TO REMAIN

6" WHITE 10'-30' SKIP WITH W/R RPMS @ 40'

18" YELLOW

RELOCATE 700-1-50 1 AS STA. 245+65.00

6" YELLOW WITH Y/Y RPM'S @ 10'

24" WHITE

6" YELLOW

TO REMAIN

6" WHITE WITH W/R RPM'S @20'

R10-11 36" x 48" 700-1-11 1 AS STA. 245+77.00

6" WHITE

15 MINUTE LIMIT LOADING UNLOADING ZONE

REMOVE 700-1-60 1 AS

6" WHITE

8" WHITE WITH W/R RPMS @ 10'

18" WHITE

NO PARKING ANY TIME

700-1-60 1 AS REMOVE

STOP 700-1-60 1 AS REMOVE

RELOCATE 700-1-50 1 AS STA. 245+80.00

700-1-60 1 AS REMOVE

NOTE:
SEE SHEET S-3 FOR DELINEATOR PLACEMENT DETAIL AND TYPICAL INTERSECTION MARKINGS DETAIL
705-11-3 5 EA

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MOBILITY DEPARTMENT

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	HILLSBOROUGH	21-C-00022

SIGNING AND PAVEMENT MARKING PLAN (3)

SHEET NO. S-7

Liviu Dosan 9/24/2021 11:00:15 AM

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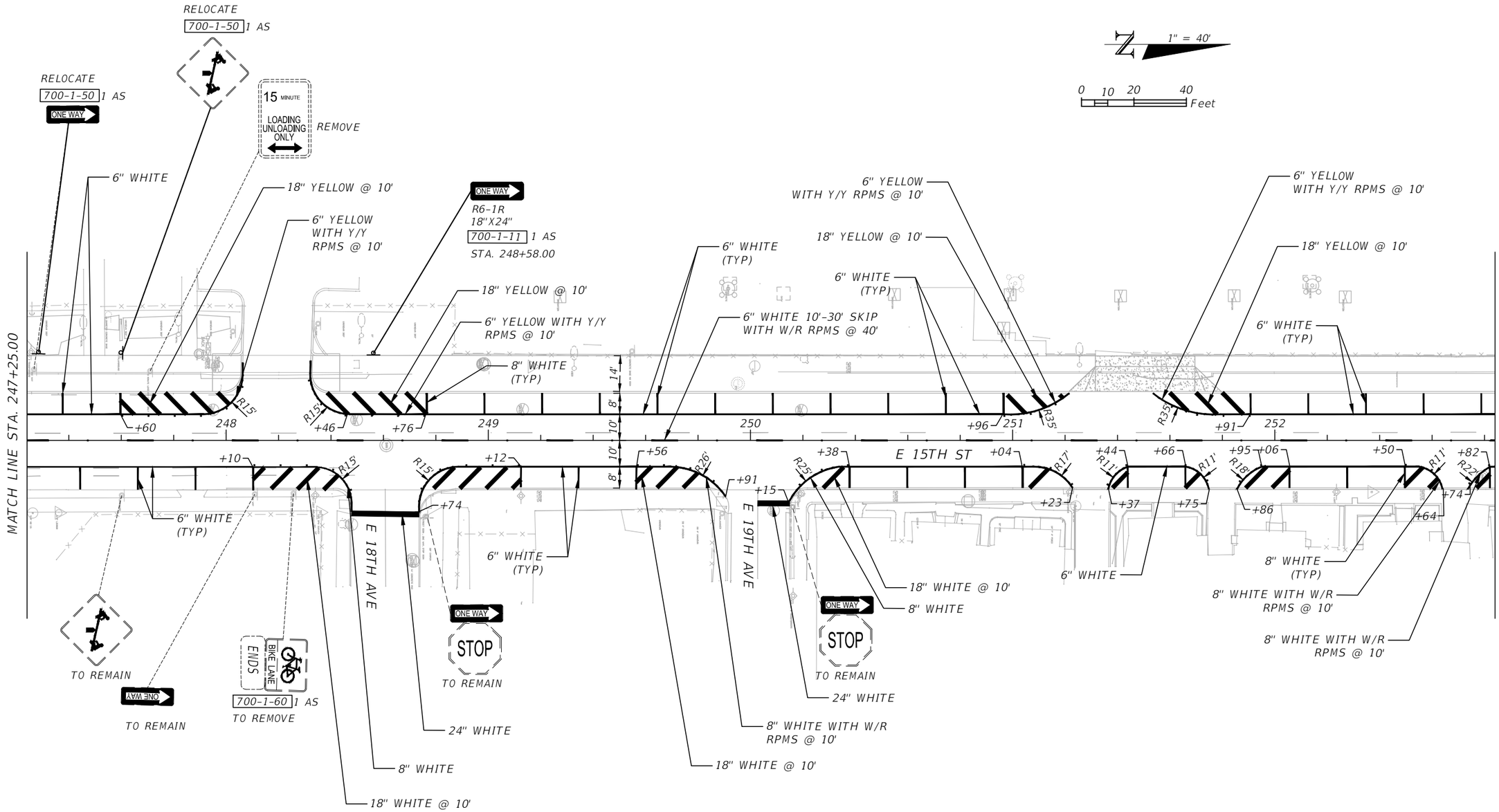

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CITY OF TAMPA
MOBILITY DEPARTMENT

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	HILLSBOROUGH	21-C-00022

SIGNING AND PAVEMENT MARKING PLAN (4)

SHEET NO.
S-8

Liviu Dosan 9/24/2021 11:00:25 AM

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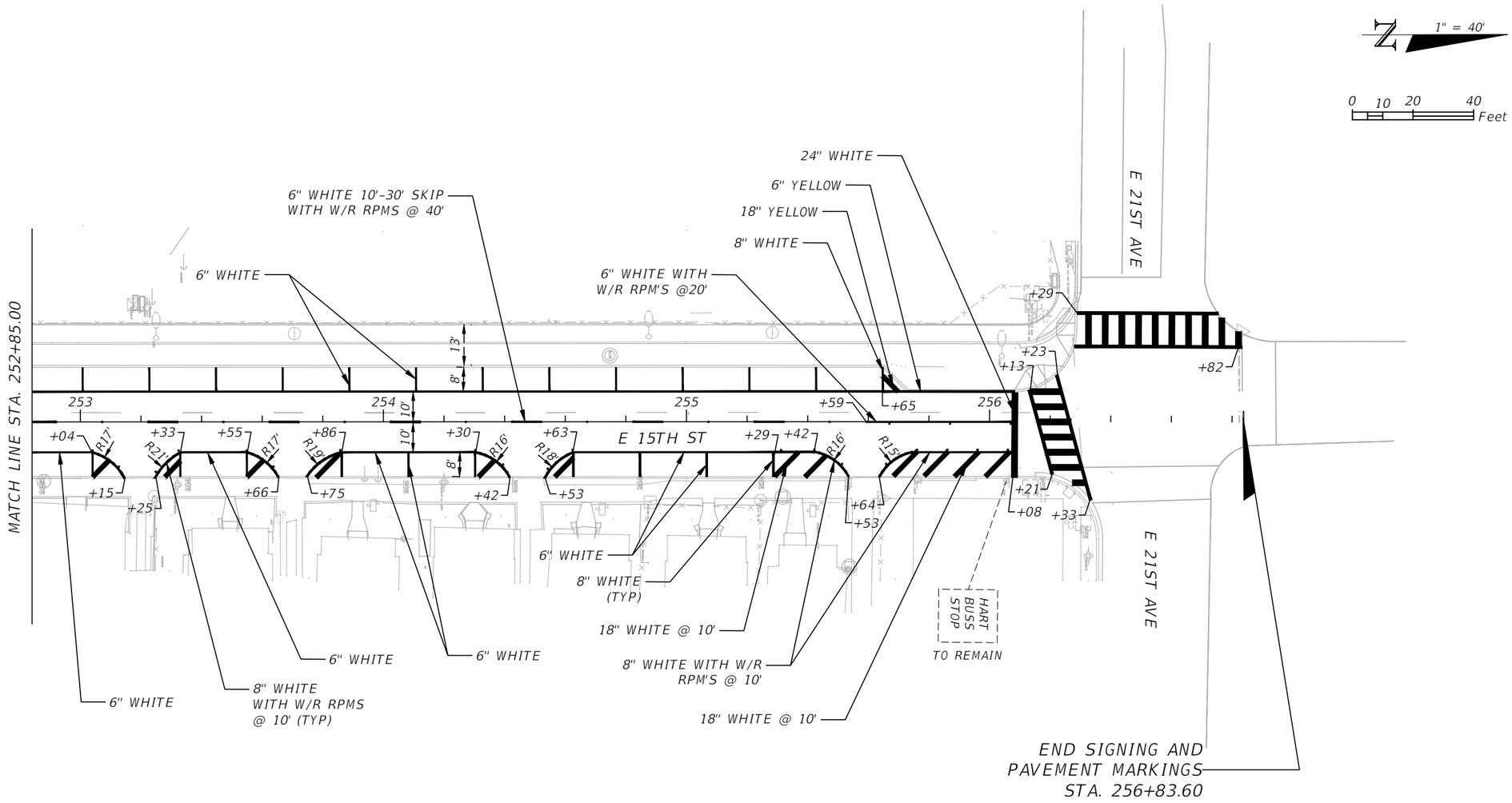

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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

CITY OF TAMPA
MOBILITY DEPARTMENT

ROAD NO.	COUNTY	PROJECT DESIGN NO.
	HILLSBOROUGH	21-C-00022

SIGNING AND PAVEMENT MARKING PLAN (5)

SHEET NO. S-9

Liviu Dosan 9/24/2021 11:00:34 AM

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