



CITY OF TAMPA

Bob Buckhorn, Mayor

CONTRACT ADMINISTRATION DEPARTMENT

Michael W. Chucran, Director

ADDENDUM 1

DATE: May 12, 2017

Contract 16-C-00025; Willow Avenue (Swann Avenue to Main Street) Bike Lane / Sidewalk Project

Bidders on the above referenced project are hereby notified that the following addendum is made to the Contract Documents. BIDS TO BE SUBMITTED SHALL CONFORM TO THIS NOTICE.

Item 1: Replace the Roadway Plans and Signal Plans with the attached Roadway Plans and Signal Plans.

All other provisions of the Contract Documents and Specifications not in conflict with this Addendum shall remain in full force and effect. Questions are to be e-mailed to Contract Administration@tampagov.net.

Jim Greiner

Jim Greiner, P.E., Contract Management Supervisor

CONTRACT PLANS COMPONENTS

- ROADWAY PLANS
- SIGNING AND PAVEMENT MARKINGS
- SIGNALIZATION PLANS

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
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**CITY OF TAMPA
DEPARTMENT OF TRANSPORTATION**

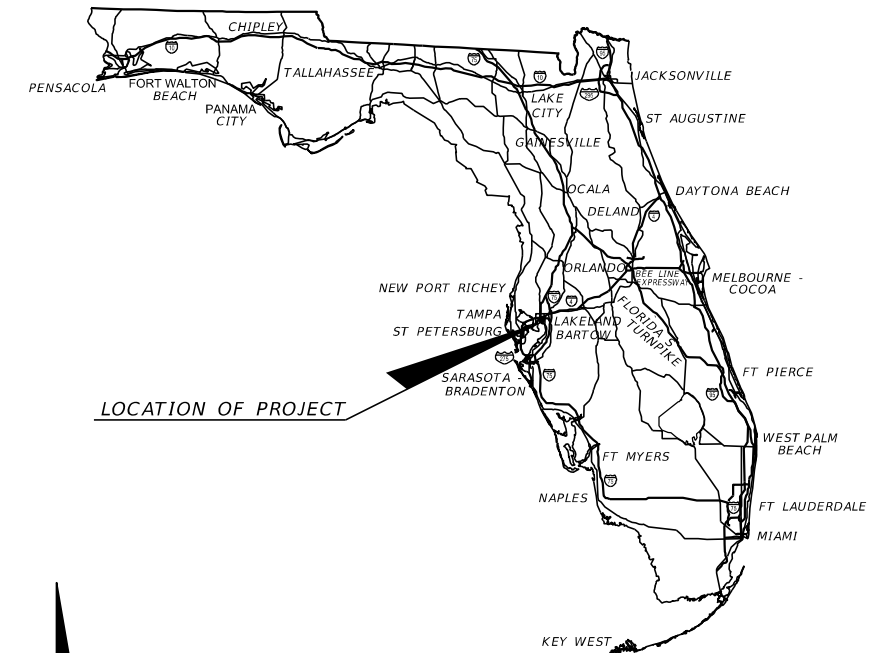
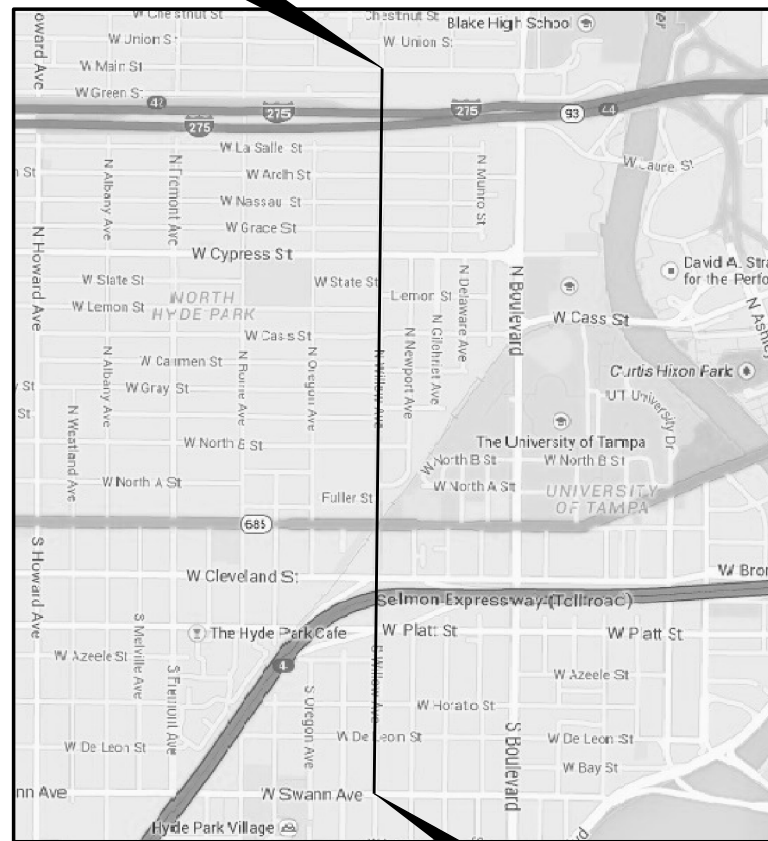
CONTRACT PLANS

CITY OF TAMPA PROJECT ID 1000260
FINANCIAL PROJECT ID: 432717-1-58-01
(FEDERAL FUNDS)

WILLOW AVENUE FROM SWANN AVENUE TO MAIN STREET
BIKE LANE/SIDEWALK PROJECT

END PROJECT
STA. 81+57.00

BEGIN PROJECT
STA. 10+20.00



ROADWAY PLANS
ENGINEER OF RECORD:
GREGORY S. TRIM, P.E. NO.: 52935
SAM SCHWARTZ ENGINEERING, D.P.C., PA
2709 N. ROCKY POINT DR., SUITE 104
TAMPA, FL 33607
(813) 289-7771
CONTRACT NO.: 13-05-1893
VENDOR NO.: 46-1885050
CERTIFICATE OF AUTHORIZATION NO.: 30268

GEC PROJECT MANGER:
CHRIS MEARES, P.E.

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

GOVERNING DESIGN STANDARDS:
Florida Department of Transportation, FY2016-17 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 2017 Division II and III Standard Specifications for Road and Bridge Construction at the following website:
<http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

FISCAL YEAR	SHEET NO.
17	1

FINAL PLANS SUBMITTAL - 04/10/17

ROADWAY PAY ITEMS			
PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY
101-1	MOBILIZATION	LS	1
102-1	MAINTENANCE OF TRAFFIC	LS	1
102-14	TRAFFIC CONTROL OFFICER	HR	32
104-10-3	SEDIMENT BARRIER	LF	872
104-18	INLET PROTECTION SYSTEM	EA	3
110-1-1	CLEARING AND GRUBBING	AC	0.17
110-4	REMOVAL OF EXIST. CONC. PAVEMENT	SY	7.3
120-71	REGULAR EXCAVATION - (3R PROJECT ONLY)	LS	1
160-4	TYPE B STABILIZATION	SY	258
285-706	OPTIONAL BASE, BASE GROUP 6	SY	234
327-70-6	MILLING EXIST. ASPH. PAVT., 1 1/2" AVG. DEPTH	SY	3486
337-7-81	ASPHALTIC CONCRETE FRICTION COURSE, TRAFFIC B, FC-12.5, PG76-22	TN	296
400-0-11	CONCRETE CLASS NS, GRAVITY WALL	CY	20
520-1-10	CONCRETE CURB & GUTTER, TYPE F	LF	55
520-2-4	CONCRETE CURB, TYPE D	LF	588
520-3	VALLEY GUTTER - CONCRETE	LF	58
520-70	CONC. TRAF. SEP., SPECIAL - VARIABLE WIDTH	SY	29.3
522-1	CONC. SIDEWALK, 4" THICK	SY	717
522-2	CONC. SIDEWALK, 6" THICK	SY	520
527-2	DETECTABLE WARNINGS	SF	237
550-10-248	FENCING, TYPE B, 7.1'-8', RESET EXISTING	LF	32
570-1-2	PERFORMANCE TURF, SOD	SY	439

UTILITY PAY ITEMS			
PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY
9910W	ADJUST VALVE BOX TOP (HEIGHT)	EA	2
8100W	ADJUST WATER METER BOX	EA	8

SIGNING & PAVT. MARKING PAY ITEMS			
PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY
700-1-11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	20
700-1-12	SINGLE POST SIGN, F&I GROUND MOUNT, 12-20 SF	AS	2
700-1-50	SINGLE POST SIGN, RELOCATE	AS	4
700-1-60	SINGLE POST SIGN, REMOVE	AS	8
706-3	RETRO REFLECTIVE PAVEMENT MARKERS	EA	127
711-11-123	THERMOPLASTIC, STD., WHITE, SOLID, 12"	LF	1111
711-11-124	THERMOPLASTIC, STD., WHITE, SOLID, 18"	LF	241
711-11-125	THERMOPLASTIC, STD., WHITE, SOLID, 24"	LF	202
711-11-141	THERMOPLASTIC, STD., WHITE, 2'-4' DOT GUIDE, 6"	GM	0.081
711-11-160	THERMOPLASTIC, STANDARD, WHITE, MESSAGES	EA	12
711-11-170	THERMOPLASTIC, STANDARD, WHITE, ARROWS	EA	10
711-12-123	THERMOPLASTIC, REFURBISHMENT, WHITE, SOLID, 12"	LF	166
711-12-125	THERMOPLASTIC, REFURBISHMENT, WHITE, SOLID, 24"	LF	103
711-14-125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24"	LF	1121
711-14-160	THERMOPLASTIC, PREFORMED, WHITE, MESSAGES	EA	37
711-14-170	THERMOPLASTIC, PREFORMED, WHITE, ARROWS	EA	8
711-16-101	THERMOPLASTIC, STD - OTHER SURFACES, WHITE, SOLID, 6"	GM	0.361
711-16-102	THERMOPLASTIC, STD - OTHER SURFACES, WHITE, SOLID, 8"	GM	0.110
711-16-133	THERMOPLASTIC, STD. - OTHER SURFACES, WHITE, SKIP, 12" (3/9) LANE DROP	GM	0.040
711-16-201	THERMOPLASTIC, STD - OTHER SURFACES, YELLOW, SOLID, 6"	GM	0.579
711-17	THERMOPLASTIC, REMOVE EXISTING PAVEMENT MARKINGS	SF	536

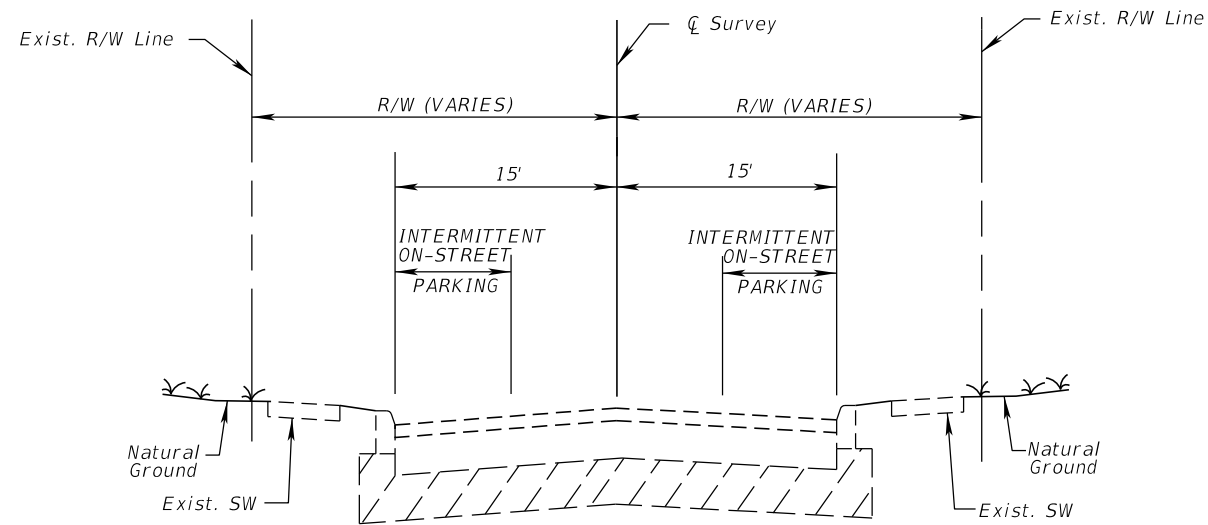
SIGNALIZATION PAY ITEMS			
PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY
630-2-11	CONDUIT, F&I, OPEN TRENCH, UNDERGROUND	LF	140
630-2-12	CONDUIT, F&I, DIRECTIONAL BORE	LF	358
632-7-2	SIGNAL CABLE - REPAIR/REPLACE/OTHER, F&I	LF	632
635-2-11	PULL BOX, F&I, 13x24	EA	13
639-2-1	ELECTRICAL SIGNAL CABLE, F&I	LF	20
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	EA	9
646-1-60	ALUMINUM SIGNALS POLE, REMOVE	EA	2
650-1-14	TRAFFIC SIGNAL, F&I, ALUMINUM, 3-SECTION/1-WAY	AS	3
650-1-60	TRAFFIC SIGNAL, REMOVE	AS	1
650-1-70	TRAFFIC SIGNAL, RELOCATE	AS	2
653-1-11	PEDESTRIAN SIGNAL, F&I, LED COUNTDOWN, 1-WAY	AS	8
653-1-12	PEDESTRIAN SIGNAL, F&I, LED COUNTDOWN, 2-WAY	AS	1
653-1-40	PEDESTRIAN SIGNAL, RELOCATE	AS	1
653-1-60	PEDESTRIAN SIGNAL, REMOVE	AS	2
660-2-101	LOOP ASSEMBLY - F&I, TYPE A	AS	3
660-2-106	LOOP ASSEMBLY - F&I, TYPE F	AS	1
660-3-11	VEH. DETECTION SYSTEM, MICROWAVE, F&I, CABINET SYSTEM	EA	1
660-3-12	VEH. DETECTION SYSTEM, MICROWAVE, F&I, ABOVE GROUND EQUIP.	EA	1
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	EA	9
665-1-40	PEDESTRIAN DETECTOR, RELOCATE	EA	2
665-1-60	PEDESTRIAN DETECTOR, REMOVE	EA	4
670-5-110	TRAFFIC CONTROLLER - ASSEMBLY, F&I, NEMA	AS	1
670-5-400	TRAFFIC CONTROLLER - ASSEMBLY, MODIFY	AS	1
670-5-500	TRAFFIC CONTROLLER - ASSEMBLY, RELOC. CONTROLLER W/CABINET	AS	1
670-5-600	TRAFFIC CONTROLLER - ASSEMBLY, REMOVE	AS	1
700-3-201	SIGN PANEL, F&I OVERHEAD MOUNT, UP TO 12 SF	EA	2
700-3-501	SIGN PANEL, RELOCATE, UP TO 12 SF	EA	1

PAY ITEM NOTES:

- 110-1-1:
INCLUDES THE COST OF REMOVING 68 SY OF EXISTING GRAVITY WALLS (SEE TYPICAL SECTION (2) FOR LOCATIONS) AND RELOCATING MAIL BOXES.
- 400-0-11:
THE CONTRACTOR SHALL PROTECT THE EXISTING ADJACENT SLOPES DURING CONSTRUCTION OF THE GRAVITY WALL. ALL COSTS FOR THE PROTECTION OF SLOPES SHALL BE INCLUDED IN THE BID PRICE OF THE GRAVITY WALL.
- 520-3:
INCLUDES COST TO REMOVE & RESET ROADWAY BRICKS.
- 522-2:
SHALL INCLUDE THE COST OF ANY EXCAVATION NEEDED FOR DRIVEWAY CONSTRUCTION.
- 670-5-500:
INCLUDES COST OF TRAFFIC CONTROLLER PAD.

REVISIONS				GREGORY S. TRIM, P.E. P.E. LICENSE NUMBER 52935 SAM SCHWARTZ ENGINEERING 2709 N. ROCKY POINT DR., SUITE 104 TAMPA, FL 33607 CERTIFICATE OF AUTHORIZATION 30268	CITY OF TAMPA TRANSPORTATION DEPARTMENT		SHEET NO. 2
DATE	DESCRIPTION	DATE	DESCRIPTION		FINANCIAL PROJECT ID	CITY PROJECT ID	
					432717-1-58-01	1000260	

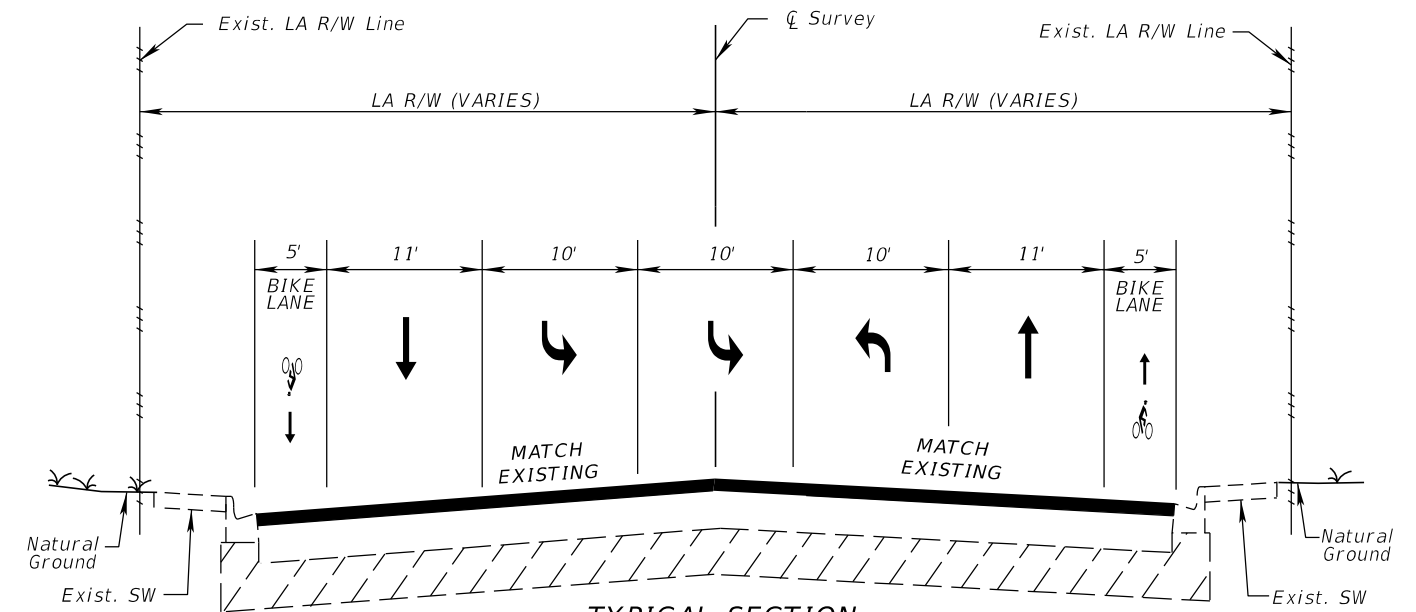
SUMMARY OF PAY ITEMS



TYPICAL SECTION
W. SWANN AVE. TO W. PLATT ST.
STA. 10+20.00 TO STA. 26+37.30

TRAFFIC DATA

CURRENT YEAR = 2015 AADT = 10,620
 ESTIMATED OPENING YEAR = 2016 AADT = 10,730
 ESTIMATED DESIGN YEAR = 2036 AADT = 13,200
 K = 9% D = 50% T = 2% (24 HOUR)
 DESIGN HOUR T = 3%
 DESIGN SPEED = 30 MPH



TYPICAL SECTION
W. PLATT ST. TO CLEVELAND ST.
STA. 26+37.30 TO STA. 31+15.53
CONSTANT DEPTH MILLING AND RESURFACING

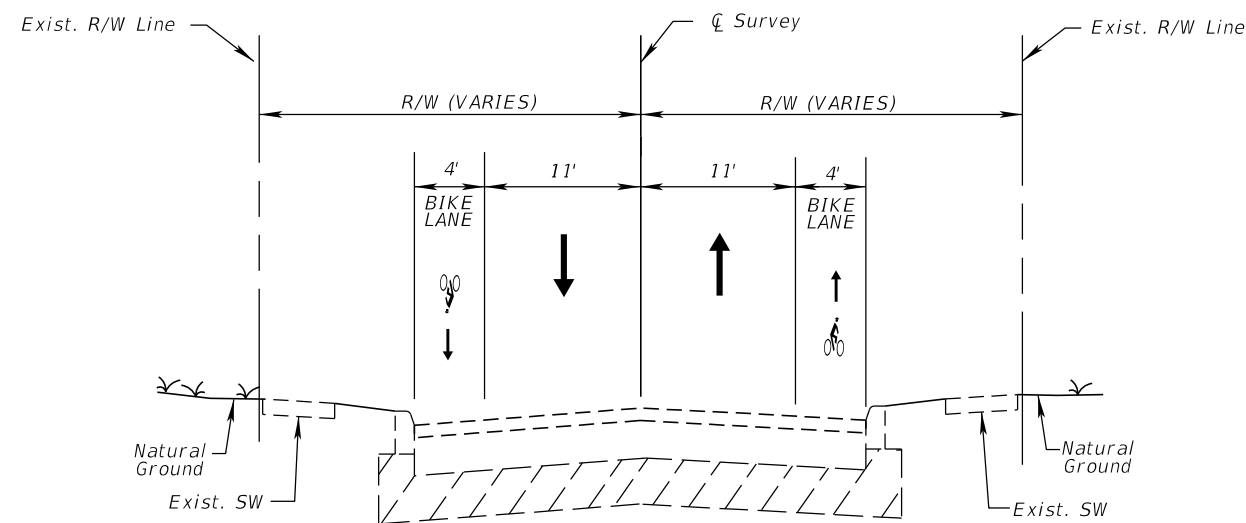
W. PLATT ST. TO CLEVELAND ST.

MILLING

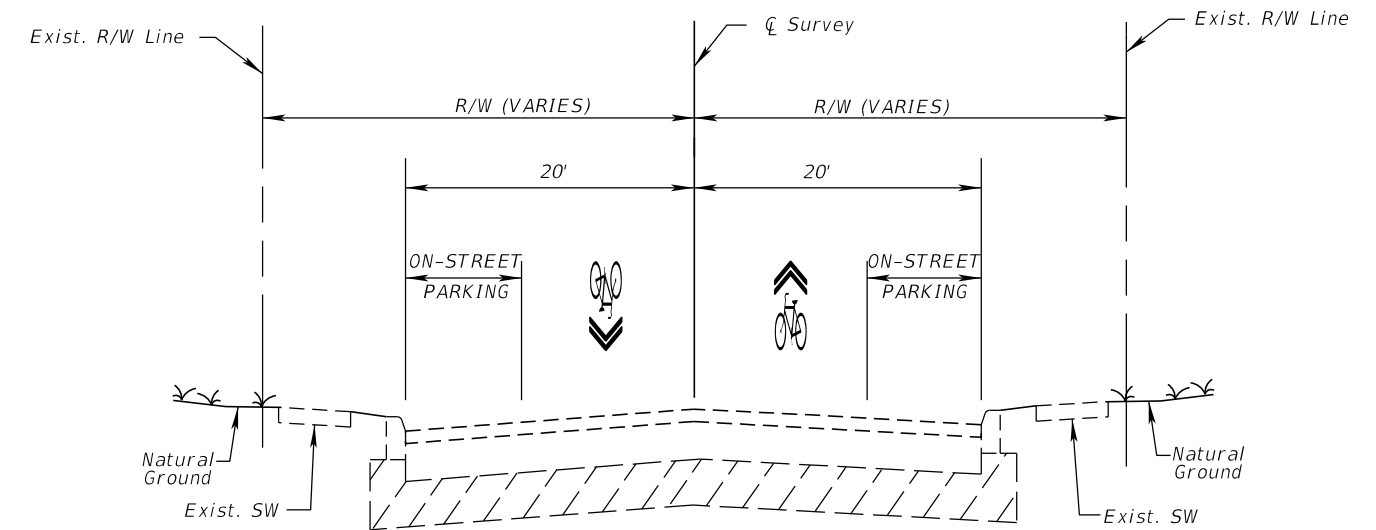
MILL EXISTING ASPHALT PAVEMENT (1.5" DEPTH)

RESURFACING

FRICITION COURSE (TRAFFIC B, FC-12.5, PG76-22) (1.5")



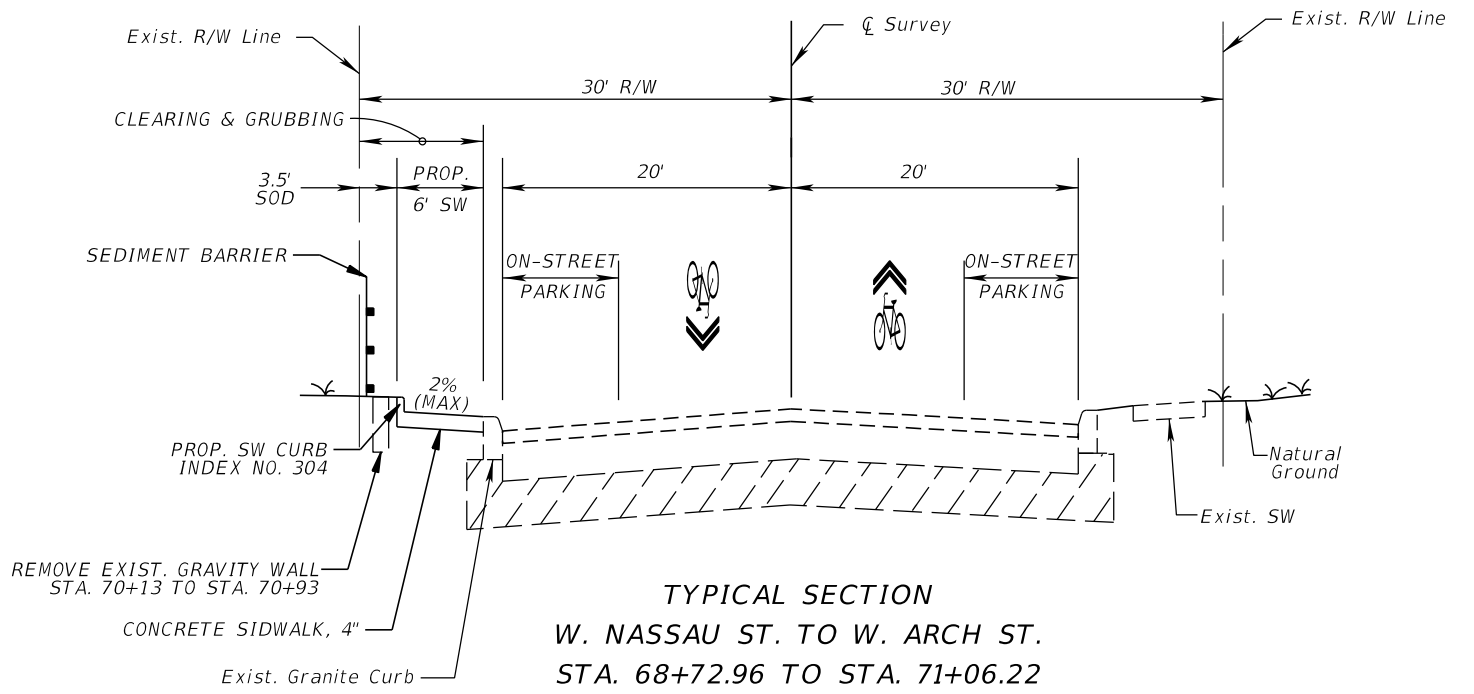
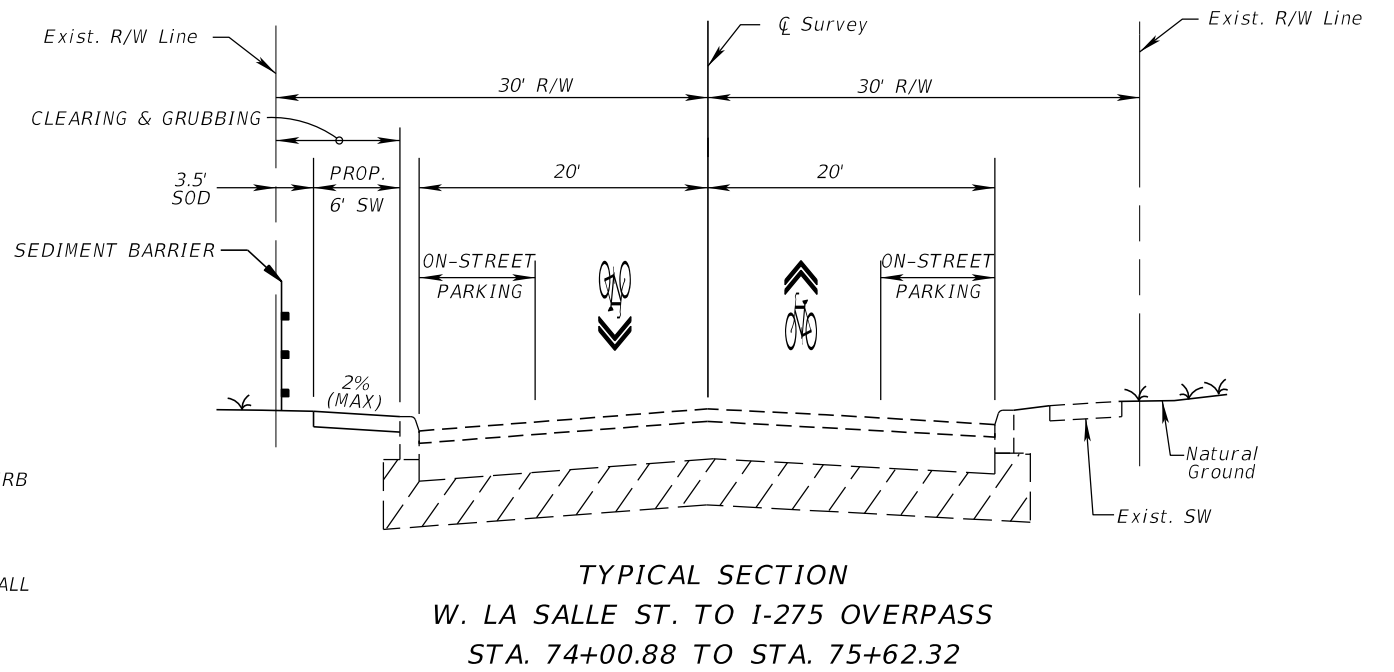
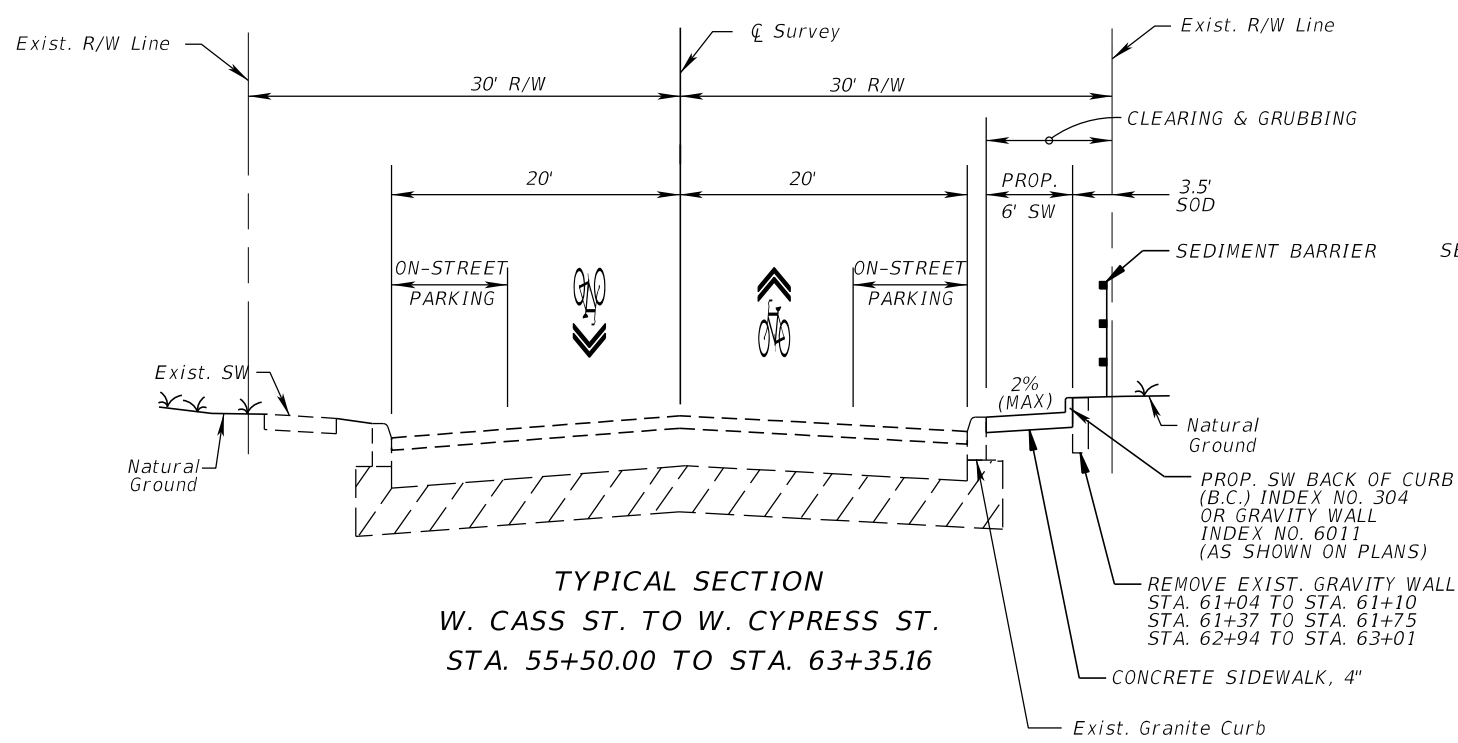
TYPICAL SECTION
CLEVELAND ST. TO W. JOHN F. KENNEDY BLVD.
STA. 31+15.53 TO STA. 36+60.00



TYPICAL SECTION
W. JOHN F. KENNEDY BLVD. TO W. CASS ST. STA. 36+60.00 TO STA. 55+50.00
W. CYPRESS ST. TO W. NASSAU ST. - STA. 63+35.16 TO STA. 68+72.00
W. ARCH ST. TO W. LA SALLE ST. - STA. 71+07.00 TO STA. 74+00.00
INTERSTATE 275 TO W. MAIN ST. - STA. 75+63.00 TO STA. 81+57.00

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DATE	DESCRIPTION	DATE	DESCRIPTION		FINANCIAL PROJECT ID	CITY PROJECT ID	
					432717-1-58-01	1000260	

TYPICAL SECTION (1)



REVISIONS				GREGORY S. TRIM, P.E. P.E. LICENSE NUMBER 52935 SAM SCHWARTZ ENGINEERING 2709 N. ROCKY POINT DR., SUITE 104 TAMPA, FL 33607 CERTIFICATE OF AUTHORIZATION 30268	CITY OF TAMPA TRANSPORTATION DEPARTMENT		TYPICAL SECTION (2)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		FINANCIAL PROJECT ID	CITY PROJECT ID		
					432717-1-58-01	1000260		

SUMMARY OF CURB RAMPS			
CURB RAMP NO.	STATION (CROSS STREET)	OFFSET	AREA (SY)
CR-E	STA. 49+84.50 (GRAY ST.)*	36.40' LT.	6.9
CR-F	STA. 50+16.30 (GRAY ST.)*	23.59' LT.	8.2
CR-F	STA. 51+86.33 (CARMEN ST.)*	24.04' RT.	8.1
CR-G	STA. 52+15.92 (CARMEN ST.)*	22.48' RT.	6.0
CR-F	STA. 52+80.80 (CARMEN ST.)*	23.50' LT.	8.2
CR-A (MOD)	STA. 55+05.44 (CASS ST.)	20.28' RT.	20.8
CR-L	STA. 55+06.99 (CASS ST.)	24.42' LT.	16.1
CR-H (MOD)	STA. 55+26.20 (CASS ST.)	29.38' RT.	20.8
CR-G	STA. 56+34.85 (CASS ST.)	28.97' RT.	12.0
CR-L	STA. 55+64.04 (CASS ST.)	22.52' LT.	47.3
CR-G	STA. 59+10.26 (LEMON ST.)	23.29' RT.	11.3
CR-G	STA. 59+62.38 (LEMON ST.)	23.77' RT.	10
CR-C	STA. 62+93.52 (CYPRESS ST.)	21.15' RT.	18.5
CR-C	STA. 63+09.90 (CYPRESS ST.)	40.28' RT.	8.6
CR-C	STA. 63+58.39 (CYPRESS ST.)	40.37' RT.	17.8
CR-G	STA. 68+74.54 (NASSAU ST.)	24.25' LT.	7.3
CR-G	STA. 71+04.29 (ARCH ST.)	24.09' LT.	5.8
CR-H (MOD)	STA. 74+01.68 (LA SALLE ST.)	26.03' LT.	15.9
CR-L	STA. 81+50.00 (MAIN ST.)	28.00' LT.	12.0
TOTAL			261.6

* CURB RAMPS AT GRAY ST. AND CARMEN ST. WERE FIELD MEASURED AND SET. NO SURVEY IS AVAILABLE AND NO DRAWINGS ARE PROVIDED IN THIS SET OF PLANS. EXISTING GRANITE CURB AT PROPOSED RAMP CONSTRUCTION TO BE REMOVED AND REPLACED WITH TYPE D CONCRETE CURB.

SUMMARY OF PROP. 6' CONC. SW				
STATION TO STATION	OFFSET LOCATION	CONC. DEPTH	AREA (SY.)	
			4"	6"
48+56.37 TO 48+66.37*	37.77' BK. OF PROP. SW LT.	6" CONC. DRWY.		6.7
53+04.84 TO 53+52.84*	25.41'/31.05' BK. OF PROP. SW RT.	6" CONC. DRWY.		32.3
56+51.11 TO 57+01.23	SW AT BK. OF EXIST. CURB RT.	4" CONC. SW	33.5	
57+01.23 TO 57+37.85	SW AT BK. OF EXIST. CURB RT.	6" CONC. DRWY.		59.6
57+37.85 TO 58+22.20	SW AT BK. OF EXIST. CURB RT.	4" CONC. SW	57.7	
58+22.20 TO 58+45.25	SW AT BK. OF EXIST. CURB RT.	6" CONC. DRWY.		44.4
58+45.25 TO 58+93.39	SW AT BK. OF EXIST. CURB RT.	4" CONC. SW	31.6	
59+77.05 TO 60+38.94	SW AT BK. OF EXIST. CURB RT.	4" CONC. SW	43.3	
60+38.94 TO 60+57.95	SW AT BK. OF EXIST. CURB RT.	6" CONC. DRWY.		38.5
60+57.01 TO 61+17.19	SW AT BK. OF EXIST. CURB RT.	4" CONC. SW	39.7	
61+16.24 TO 61+30.13	SW AT BK. OF EXIST. CURB RT.	6" CONC. DRWY.		29.6
61+29.19 TO 61+86.07	SW AT BK. OF EXIST. CURB RT.	4" CONC. SW	30.8	
61+71.78 TO 61+90.54	SW AT BK. OF EXIST. CURB RT.	6" CONC. DRWY.		27.5
61+89.60 TO 63+11.50	SW AT BK. OF EXIST. CURB RT.	4" CONC. SW	57.4	
68+83.54 TO 69+86.07	SW AT BK. OF EXIST. CURB LT.	4" CONC. SW	68.8	
69+84.88 TO 69+95.42	SW AT BK. OF EXIST. CURB LT.	6" CONC. DRWY.		19.8
69+94.24 TO 70+95.12	SW AT BK. OF EXIST. CURB LT.	4" CONC. SW	66.3	
74+14.70 TO 75+62.32	SW AT BK. OF EXIST. CURB LT.	4" CONC. SW	97.3	
TOTAL			526.4	258.4

* PROP. SW LOCATIONS FIELD MEASURED AND SET. NO SURVEY IS AVAILABLE AND NO DRAWINGS ARE PROVIDED IN THIS SET OF PLANS.

SUMMARY OF EXIST. 6' SW CONC. TO BE REPLACED		
STATION TO STATION	OFFSET	AREA (SY) 4"
48+55.87 TO 49+82.87 (FIG ST. - GRAY ST.)	RT.	84.7
49+68.46 TO 49+74.46 (GRAY ST. - SOUTH)	LT.	4.0
50+24.22 TO 50+71.78 (GRAY ST. - NORTH)	LT.	31.7
52+88.72 TO 53+87.10 (CARMEN ST. - NORTH)	LT.	65.6
53+60.00 TO 53+67.14 (CARMEN ST. - NORTH)	31.41' RT. (BK. OF SW)	4.8
TOTAL		190.80

EXIST. SIDEWALK REMOVAL AT FIG ST., GRAY ST., AND CARMEN ST. WERE FIELD MEASURED AND SET. NO SURVEY IS AVAILABLE AND NO DRAWINGS ARE PROVIDED IN THIS SET OF PLANS.

SUMMARY OF REPLACEMENT SOD		
STATION TO STATION	OFFSET	AREA (SY)
48+52.87 - 49+85.87	SW (BK.) LT.	44.3
49+65.49 - 49+84.50	CR-E, SW (FRONT & BK.) LT.	12.4
50+16.30 - 50+74.78	CR-F, SW (FRONT & BK.) LT.	38.2
51+86.33	CR-F RT.	6.2
52+15.92	CR-G RT.	5.7
52+80.80 - 53+87.10	CR-F LT.	70.1
57+44.01 - 58+21.85	SW (BK.) RT.	24.5
58+46.03 - 59+10.26	CR-G RT.	22.0
59+62.38 - 60+38.29	CR-G, SW (BK.) RT.	25.3
60+58.60 - 61+15.59	SW (BK.) RT.	15.2
61+30.77 - 61+78.02	SW (BK.) RT.	13.5
61+91.36 - 62+93.52	SW (BK.), CR-K (MOD) RT.	33.4
68+74.54 - 69+84.88	CR-G, SW (BK.) LT.	35.4
69+95.35 - 71+04.29	SW (BK.), CR-G LT.	43.8
74+01.68 - 75+62.32	CR-H (MOD), SW (BK.) LT.	48.8
TOTAL		438.8

* SOD QUANTITIES ESTIMATED AT A 3' OFFSET AROUND PERIMETER OF CURB RAMP OR EXIST. 6' SW TO BE REPLACED.

* BAHIA SOD SHALL BE USED TO REPAIR AREAS DISTURBED BY CONSTRUCTION.

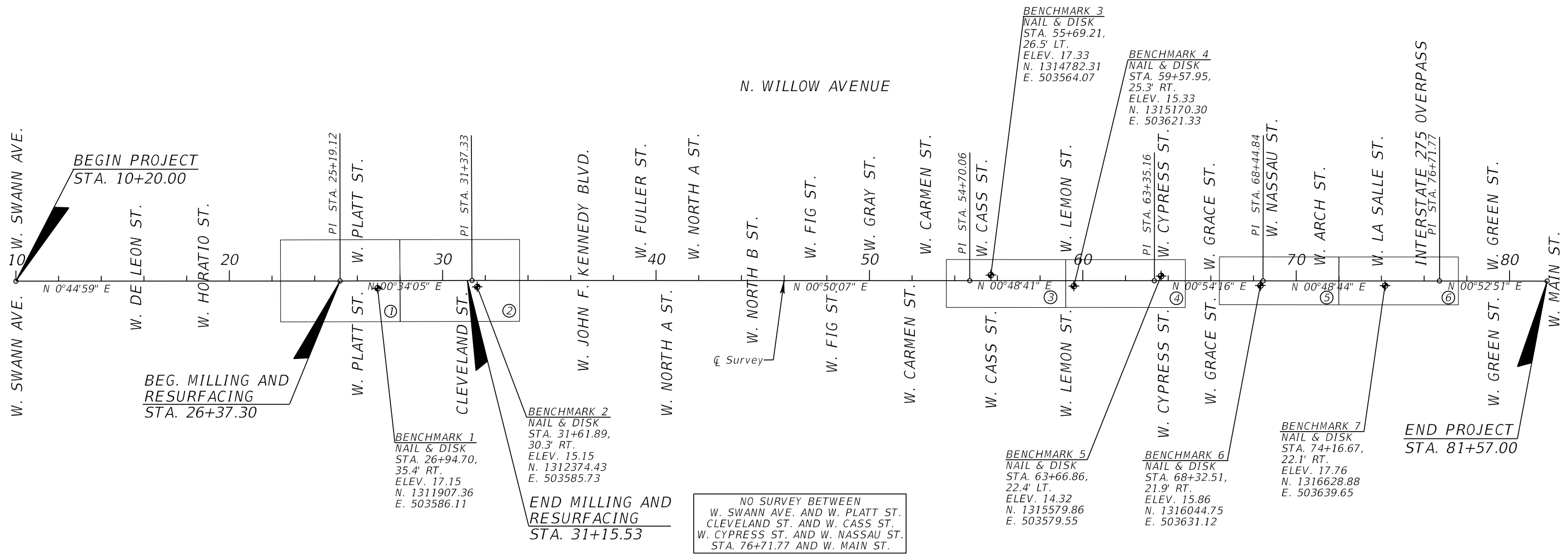
* SOD TO BE TRUCK WATERED FOR ESTABLISHMENT PERIOD OF 90-DAYS AFTER ACCEPTANCE.

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES					
LOCATION STA. TO STA.	SIDE	SEDIMENT BARRIER		REMARKS	FIELD BOOK REFERENCE
		LF			
		P	F		
56+31.18 TO 56+99.53	RT.	71			
57+17.14 TO 57+25.86	RT.	8			
57+38.71 TO 58+20.30	RT.	82			
58+48.37 TO 59+11.37	RT.	63			
59+61.37 TO 60+36.18	RT.	75			
60+60.16 TO 61+14.02	RT.	54			
61+32.30 TO 61+76.37	RT.	44			
61+92.92 TO 63+01.45	RT.	126		(INCL. SIDESTREET)	
68+87.05 TO 69+82.44	LT.	106		(INCL. SIDESTREET)	
69+96.36 TO 70+91.45	LT.	103		(INCL. SIDESTREET)	
74+15.47 TO 75+10.43	LT.	101		(INCL. SIDESTREET)	
75+24.43 TO 75+63.28	LT.	39			
TOTAL:		872			

SUMMARY OF PERMANENT BARRIER WALL											
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA.	TO STA.			P	F	P	F		
400-011	CONCRETE CLASS NS, GRAVITY WALL	62+70.73	TO 63+00.52	RT	CY	4.3		4		1.75' AVERAGE HEIGHT	
		62+21.78	TO 62+70.73	RT	CY	5.5				1.5' AVERAGE HEIGHT	
		61+97.86	TO 62+21.78	RT	CY	2.5				1.25' AVERAGE HEIGHT	
		61+37.25	TO 61+71.78	RT	CY	3.8				1.5' AVERAGE HEIGHT	
		60+89.49	TO 61+09.61	RT	CY	2.0				1.25' AVERAGE HEIGHT	
		60+65.37	TO 60+89.49	RT	CY	1.9				1.0' AVERAGE HEIGHT	
		TOTAL				20.0					

REVISIONS				GREGORY S. TRIM, P.E. P.E. LICENSE NUMBER 52935 SAM SCHWARTZ ENGINEERING 2709 N. ROCKY POINT DR., SUITE 104 TAMPA, FL 33607 CERTIFICATE OF AUTHORIZATION 30268	CITY OF TAMPA TRANSPORTATION DEPARTMENT		SHEET NO. 5
DATE	DESCRIPTION	DATE	DESCRIPTION		FINANCIAL PROJECT ID	CITY PROJECT ID	
					432717-1-58-01	1000260	

SUMMARY OF QUANTITIES



REVISIONS				GREGORY S. TRIM, P.E. P.E. LICENSE NUMBER 52935 SAM SCHWARTZ ENGINEERING 2709 N. ROCKY POINT DR., SUITE 104 TAMPA, FL 33607 CERTIFICATE OF AUTHORIZATION 30268	CITY OF TAMPA TRANSPORTATION DEPARTMENT		PROJECT LAYOUT	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		FINANCIAL PROJECT ID	CITY PROJECT ID		
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GENERAL NOTES

1. BEARINGS SHOWN HEREON AS (M) ARE BASED ON THE FLORIDA STATE PLAN COORDINATE SYSTEM, TRANSVERSE MERCATOR, WEST ZONE NAD 83/90 AND CONTROLLED BY NATIONAL GEODETIC SURVEY STATIONS Q-18, GANDY AND FLGPS 59 AZ MK.
2. ELEVATIONS ARE IN FEET AND BASED ON NAVD 88 DATUM. REFERENCE BENCHMARKS ARE CITY OF TAMPA BENCHMARKS HV-02 0170 (EL 12.831) AND HV-02 0167 (EL 11.689).
3. EXISTING DRAINAGE STRUCTURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED.
4. ALL TREES PROPOSED TO BE TRIMMED, ROOT PRUNED, OR REMOVED, SHALL BE COORDINATED WITH THE CITY OF TAMPA URBAN PLANNER, MARY DANIELEWICZ-BRYSON, AT Mary.Danielewicz-Bryson@tampagov.net OR AT 813-274-3100. A TREE REMOVAL PERMIT, ISSUED BY THE CITY NATURAL RESOURCES DEPARTMENT, IS REQUIRED FOR THE REMOVAL OF ALL TREES FIVE INCHES OR MORE IN DIAMETER OR THE TRIMMING OR ROOT PRUNING OF GRAND TREES. TREE REMOVAL SHALL COMPLY WITH THE CITY OF TAMPA TREE ORDINANCE.
5. ROOT PRUNING TO 8" DEPTH SHALL BE REQUIRED WHEN SUBSURFACE CONSTRUCTION IS PROPOSED WITHIN 20-FEET OF EXISTING PROTECTED GRAND TREE SPECIES, WITHIN 10-FEET OF EXISTING PROTECTED TREE SPECIES OR 6' WITHIN EXISTING PALM TREES. REFER TO CITY OF TAMPA LAND DEVELOPMENT CODE, CHAPTER 13, TREE AND LANDSCAPE CODE TECHNICAL MANUAL.
6. ROOT PRUNING MAY BE NECESSARY WHERE THERE ARE EXISTING TREES ACCORDING TO PLAN AND NOTES. CONTRACTOR TO VERIFY SITE CONDITIONS AND SCOPE OF WORK PRIOR TO SUBMITTING BID.
7. ROOT PRUNING SHALL BE DONE BY A LICENSED CERTIFIED, QUALIFIED ARBORIST USING A DASCO ROOT PURNER OR THE EQUIVALENT PIECE OF MACHINERY. CONTRACTOR TO OBTAIN APPROVAL FROM CITY OF TAMPA PROJECT MANAGER FOR "EQUIVALENT PIECE OF MACHINERY" PRIOR TO CONDUCTING ROOT PRUNING.
8. ROOTS SHALL BE CUT EVEN AND SMOOTH WITH SOIL AND ROOTBALL INTACT BEGINNING ONE INCH OFFSET FROM BACK OF CURB AND CONTINUING PARALLEL TO PLANTER TO A DEPTH NOT TO EXCEED THE PROFILE OF THE CURB OR APPROXIMATELY NINE INCHES.
9. FOLLOWING CONSTRUCTION OF CURB, THE QUALIFIED ARBORIST SHALL DRENCH THE PERIMETER OF THE ROOTBALL(S) WITH AN APPROVED SYSTEMIC FUNGICIDE AND ROOT INDUCING HORMONE E.G. IBA.
10. TREES WITHIN THE LIMITS OF THIS PROJECT THAT ARE TO REMAIN SHALL BE TRIMMED TO CONFORM TO SECTION 110, INDEX 546, AND APPLICABLE ADA REQUIREMENTS. BARRICADES ARE REQUIRED FOR TREES TO REMAIN AND SHALL CONFORM TO CHAPTER 13: TREE AND LANDSCAPE CODE, TECHNICAL MANUAL. CONTRACTOR SHALL CONSULT THE ENGINEER PRIOR TO REMOVAL OF ANY TREE OR ORNAMENTAL/DECORATIVE SHRUB WITH A TRUNK DIAMETER EXCEEDING 4 INCHES. COST TO BE INCLUDED IN STANDARD CLEARING AND GRUBBING.
11. ALL PLANTS, TREES, GROUND COVERS AND SOD SHALL BE MAINTAINED FOR 90-DAYS AFTER ACCEPTANCE. FREQUENCY OF WATER SHALL BE PREFORMED EACH WEEK OF 90-DAY MAINTENANCE PERIOD. WATER APPLICATION RATES IN ACCORDANCE WITH COT P&R TECHNICAL MAINTENANCE PLAN.
12. EXISTING GRANITE CURB AND BRICK TO BE REMOVED DURING CONSTRUCTION SHALL BE SALVAGED, SECURELY STORED, AND DELIVERED TO THE CITY OF TAMPA TRANSPORTATION & STORMWATER SERVICES DEPARTMENT AT 3802 EAST 26TH AVENUE, TAMPA, FL 33605 (CONTACT PETE BRETT 813-274-8054). THE COSTS FOR SALVAGING, STORING, AND DELIVERING THE GRANITE CURB SHALL BE CONSIDERED INCIDENTAL TO THE COST FOR CONCRETE CURB CONSTRUCTION.

CONSTRUCTION NOTES

1. TEMPORARY SHORING MAY BE REQUIRED TO CONSTRUCT SOME SEGMENTS OF GRAVITY WALL. ALL ASSOCIATED COSTS SHALL BE INCLUDED WITH THE COST OF THE GRAVITY WALL.
2. THE CONTRACTOR SHALL 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.
3. THE CONTRACTOR SHALL CHECK ALL EROSION AND SILTATION CONTROL DEVICES AFTER EACH RAINFALL AND REPAIR OR REPLACE THEM AS NEEDED.
4. THE CONTRACTOR SHALL CONTROL ALL FUGITIVE DUST GENERATED BY CONSTRUCTION ACTIVITIES ON THE PROJECT BY WATERING OR OTHER METHODS AS REQUIRED.
5. THE LOCATION OF EXISTING UTILITIES ARE APPROXIMATE AS SHOWN AND IT'S THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATIONS OF THE UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN THE AREA BEFORE BEGINNING CONSTRUCTION.
6. SIDEWALK CURB RAMPS SHALL CONFORM TO THE SPECIAL DETAILS PROVIDED AND INDEX NO. 304.
7. FOR LOCATIONS WHERE NEW CURB, CURB & GUTTER OR VALLEY GUTTER WILL BE CONSTRUCTED ADJACENT TO AN EXISTING ROAD OR DRIVEWAY AN ASPHALT CURB PAD SHALL BE CONSTRUCTED UNDER THE PROPOSED CURB, CURB & GUTTER OR VALLEY GUTTER. THE ASPHALT CURB PAD SHALL HAVE A MINIMUM THICKNESS OF 4" AND EXTEND A MINIMUM OF 4" BEHIND THE BACK OF CURB, CURB & GUTTER OR VALLEY GUTTER. COST FOR THE ASPHALT PAD CONSTRUCTION INCLUDED IN THE PROPOSED COST OF CURB, CURB & GUTTER, OR VALLEY GUTTER.
8. THE CONTRACTOR TO CONTACT THE PROPERTY OWNER 96 HOURS PRIOR TO CLEARING & GRUBBING EXISTING IRRIGATION SYSTEMS, SIGNS OR LANDSCAPING TO BE REMOVED WITHIN THE PROJECT LIMITS.

TREE EQUIVALENCY TABLE			
Diameter (inches)	Number Retained on Site	Multiplier for Credit	Credit
5" to 7"		0	0
8" to 12"		1	0
13" to 19"		2	0
20" to 29"		4	0
30" or More		10	0
All Palms	1	1	1
Total:			1

TREE EQUIVALENCY TABLE			
Diameter (inches)	Number Removed on Site	Multiplier for Debit	Debit
5" to 7"		0	0
8" to 12"		1	0
13" to 19"		2	0
20" to 29"	1	4	4
30" or More		Inch per Inch	
All Palms	4	1	4
Total:			8

TOTAL DEBIT VALUE OF TREES REMOVED SHALL BE PLACED IN THE TREE TRUST FUND.

TEMPORARY TRAFFIC CONTROL PLAN GENERAL NOTES

1. THE CITY REQUIRES THAT THE SUPERVISOR OR FOREMEN CONTROLLING THE WORK FOR THE CONTRACTOR ON THE PROJECT 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 WHILE WORK IS BEING CONDUCTED.
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. TRAVEL LANES SHALL BE NO LESS THAN 10' IN WIDTH THROUGHOUT ALL PHASES OF CONSTRUCTION.
4. 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.
5. THE EXISTING SPEED LIMIT SHALL BE MAINTAINED AT ALL TIMES.
6. WHEN A PAVING OPERATION RESULTS IN A PAVEMENT GRADE DIFFERENCE 3/4" OR MORE IN THE DIRECTION OF TRAVEL ON AN OPEN TRAVEL LANE, A WEDGE OF ASPHALT SHALL BE CONSTRUCTED TO PROVIDE A VERTICAL TAPER IN THE DIRECTION OF TRAVEL AT A RATE OF 1:50 OR FLATTER. THIS WEDGE SHALL BE REMOVED PRIOR TO CONSTRUCTING THE NEXT LIFT OF ASPHALT.
7. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN RELOCATING SIGNS FOR TCP PURPOSES. ANY SIGNS DAMAGED BEYOND USE, AS DETERMINED BY THE ENGINEER, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
8. THE CONTRACTOR SHALL ENSURE CONTINUOUS OPERATION OF THE EXISTING HIGHWAY LIGHTING SYSTEM. COST SHALL BE INCLUDED IN 102-1.
9. THE CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF 7 DAYS IN ADVANCE OF ANY LANE CLOSURES.
10. DAYTIME WORK ONLY, NO LANE CLOSURES 6-9:30AM AND 3:30-6:30PM.
11. THE CITY ENGINEER MUST APPROVE NIGHT WORK AND LANE CLOSURES AT LEAST 48 HOURS IN ADVANCE.
12. A UNIFORMED TRAFFIC CONTROL OFFICER SHALL BE UTILIZED FOR TRAFFIC CONTROL THOUGH THE SIGNALIZED INTERSECTIONS LISTED BELOW WHEN SIGNALS ARE NOT IN USE, AND SHALL BE PAID FOR UNDER PAY ITEM 102-14, TRAFFIC CONTROL OFFICER.
 - a. W. PLATT STREET
13. THE CONTRACTOR TO NOTIFY ALL LOCAL ENFORCEMENT, EMERGENCY/RESCUE AGENCIES LOCATED IN THE PROJECT VICINITY 24 HOURS IN ADVANCE OF PERFORMING ANY LANE CLOSURES OR DETOURS.

TEMPORARY TRAFFIC CONTROL PLAN PHASE NOTES

PHASE 1: INCLUDES THE CONSTRUCTION OF CONCRETE SIDEWALK AND CONCRETE CURB RAMPS ALONG WILLOW AVENUE AND RECONSTRUCTION OF WILLOW AVE AND LEMON STREET.

1. MAINTAIN PEDESTRIAN ACCESS PER INDEX 660.
2. REMOVE EXISTING TREES IDENTIFIED IN THE PLANS FOR REMOVAL. CLEAR AND GRUB ALL CONFLICTING LANDSCAPING AND CAP AND PLUG CONFLICTING IRRIGATION. ROOT PRUNE EXISTING TREES AS REQUIRED.
3. RECONSTRUCT WILLOW AVE AND LEMON STREET INTERSECTION AND CONSTRUCT GRAVITY WALL, CONCRETE DRIVEWAY, CONCRETE SIDEWALK, AND SIDEWALK CURB RAMPS UTILIZING INDICES 601 THRU 605.
4. SIDEWALKS SHALL BE RE-OPENED TO PEDESTRIANS IMMEDIATELY UPON THE COMPLETION OF SIDEWALK AND CURB RAMP CONSTRUCTION.

PHASE 2: INCLUDES THE ROADWAY MILLING & RESURFACING AND INSTALLATION OF SIGNING AND PAVEMENT MARKINGS.

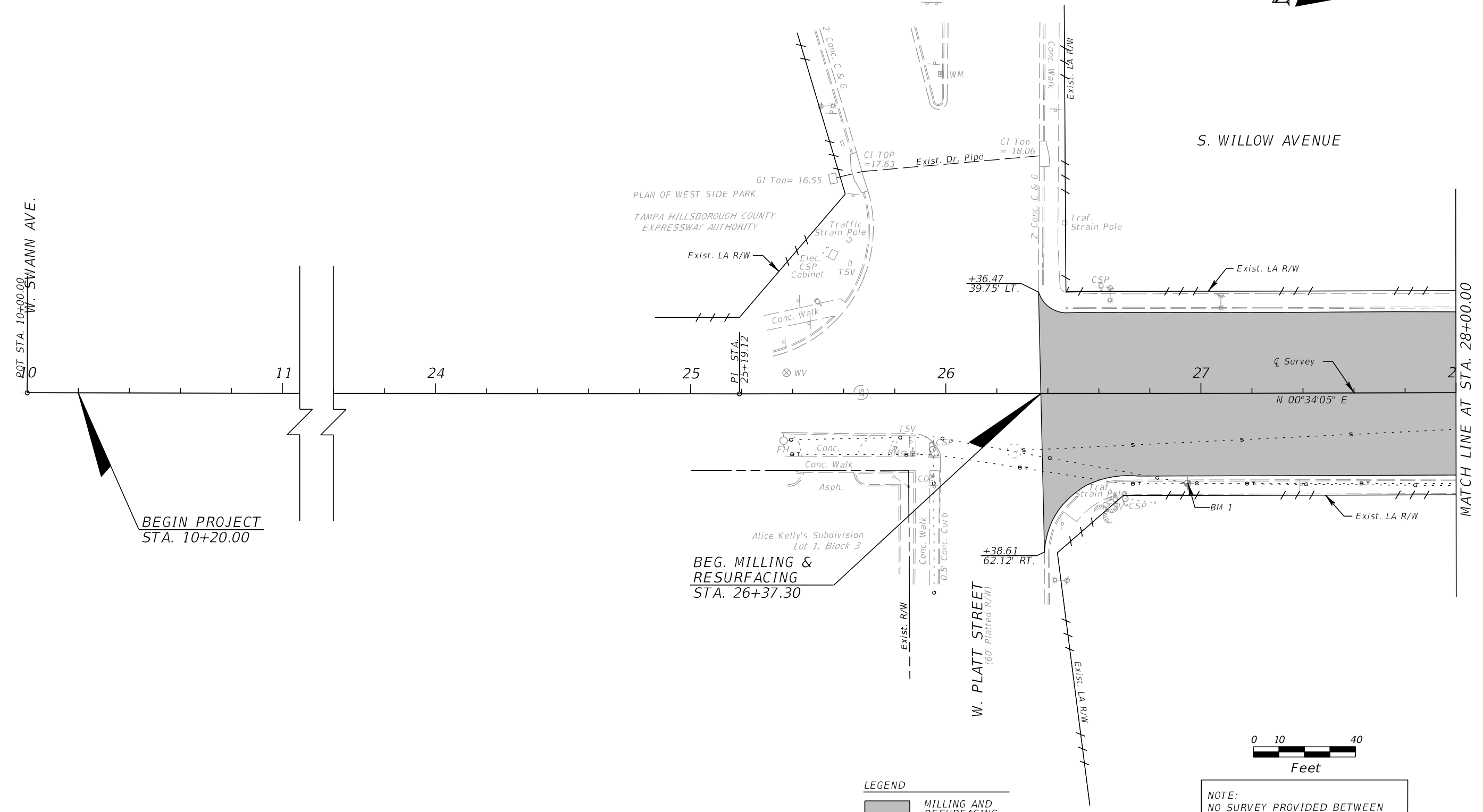
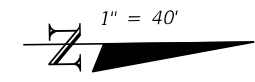
1. INSTALL TEMPORARY TRAFFIC CONTROL DEVICES AND SHIFT TRAFFIC TO THE INSIDE TRAVEL LANES (ONE LANE IN EACH DIRECTION) PER INDEX 613.
2. MILL AND RESURFACE OUTSIDE LANES WHILE MAINTAINING TRAFFIC IN INSIDE TRAVEL LANES (ONE LANE EACH DIRECTION).
3. REVISE TEMPORARY TRAFFIC CONTROL DEVICES AND SHIFT TRAFFIC TO THE OUTSIDE TRAVEL LANES (ONE LANE IN EACH DIRECTION) PER INDEX 613 & 615.
4. MILL AND RESURFACE INSIDE LANES WHILE MAINTAINING TRAFFIC IN OUTSIDE TRAVEL LANES (ONE LANE EACH DIRECTION).
5. UPON COMPLETION OF ALL OTHER CONSTRUCTION, INSTALL FINAL PAVEMENT MARKINGS AND SIGNS AND REMOVE TEMPORARY TRAFFIC CONTROL DEVICES.

PHASE 3: INCLUDES THE SIGNAL MODIFICATIONS AT W. PLATT STREET.

1. INSTALL TEMPORARY TRAFFIC CONTROL DEVICES PER INDEX 615.
2. CONSTRUCT SIGNAL MODIFICATIONS AND LOOP DETECTOR CONSTRUCTION WHILE MAINTAINING TRAFFIC THROUGH THE INTERSECTIONS.
3. OVERHEAD WORK SHALL BE IN ACCORDANCE WITH INDEX 600.

REVISIONS				GREGORY S. TRIM, P.E. P.E. LICENSE NUMBER 52935 SAM SCHWARTZ ENGINEERING 2709 N. ROCKY POINT DR., SUITE 104 TAMPA, FL 33607 CERTIFICATE OF AUTHORIZATION 30268	CITY OF TAMPA TRANSPORTATION DEPARTMENT		SHEET NO. 7
DATE	DESCRIPTION	DATE	DESCRIPTION		FINANCIAL PROJECT ID	CITY PROJECT ID	
					432717-1-58-01	1000260	

GENERAL NOTES



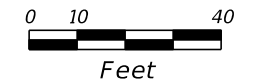
BEGIN PROJECT
STA. 10+20.00

BEG. MILLING &
RESURFACING
STA. 26+37.30

MATCH LINE AT STA. 28+00.00

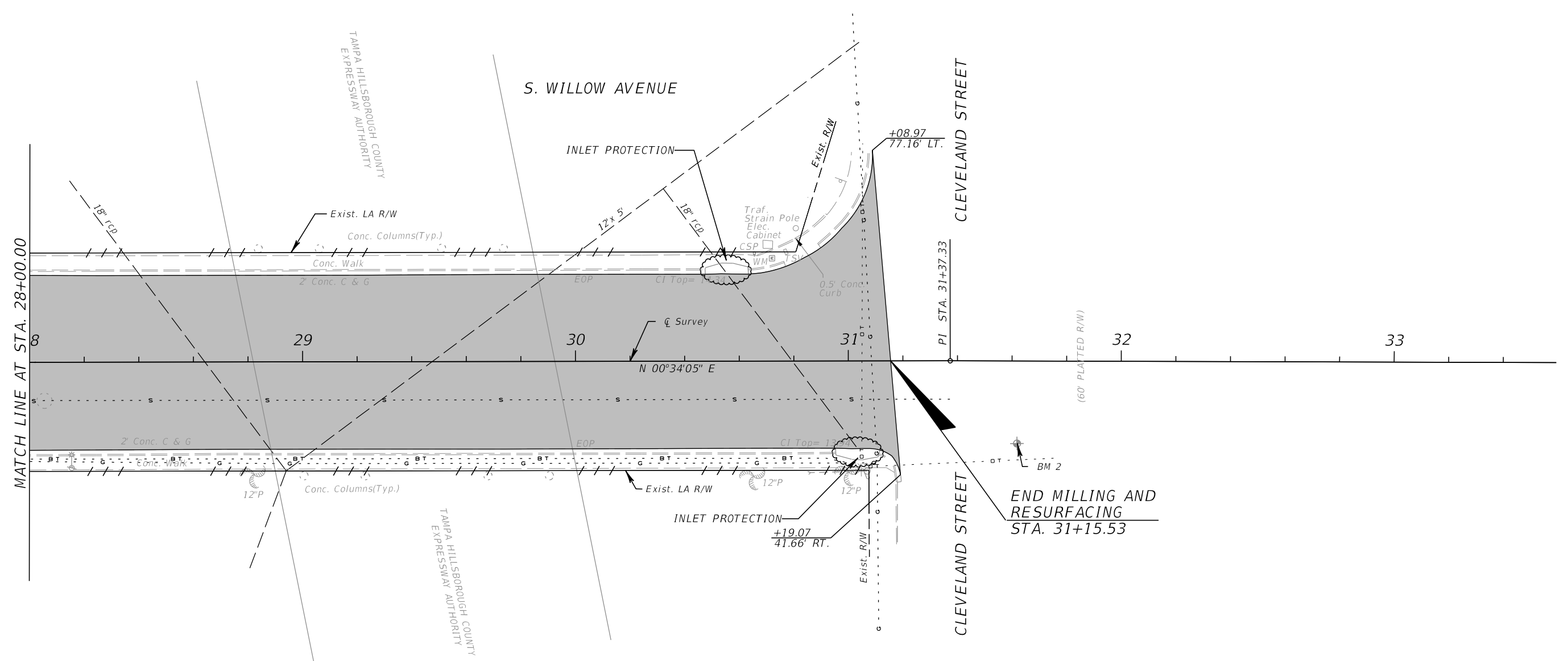
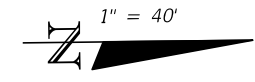
LEGEND

MILLING AND RESURFACING LIMITS



NOTE:
NO SURVEY PROVIDED BETWEEN
W. SWANN AVE. TO W. PLATT ST.

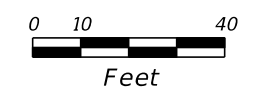
REVISIONS				GREGORY S. TRIM, P.E. P.E. LICENSE NUMBER 52935 SAM SCHWARTZ ENGINEERING 2709 N. ROCKY POINT DR., SUITE 104 TAMPA, FL 33607 CERTIFICATE OF AUTHORIZATION 30268	CITY OF TAMPA TRANSPORTATION DEPARTMENT		N. WILLOW AVENUE ROADWAY PLAN (1)	SHEET NO. 8
DATE	DESCRIPTION	DATE	DESCRIPTION		FINANCIAL PROJECT ID	CITY PROJECT ID		
					432717-1-58-01	1000260		



END MILLING AND
RESURFACING
STA. 31+15.53

LEGEND

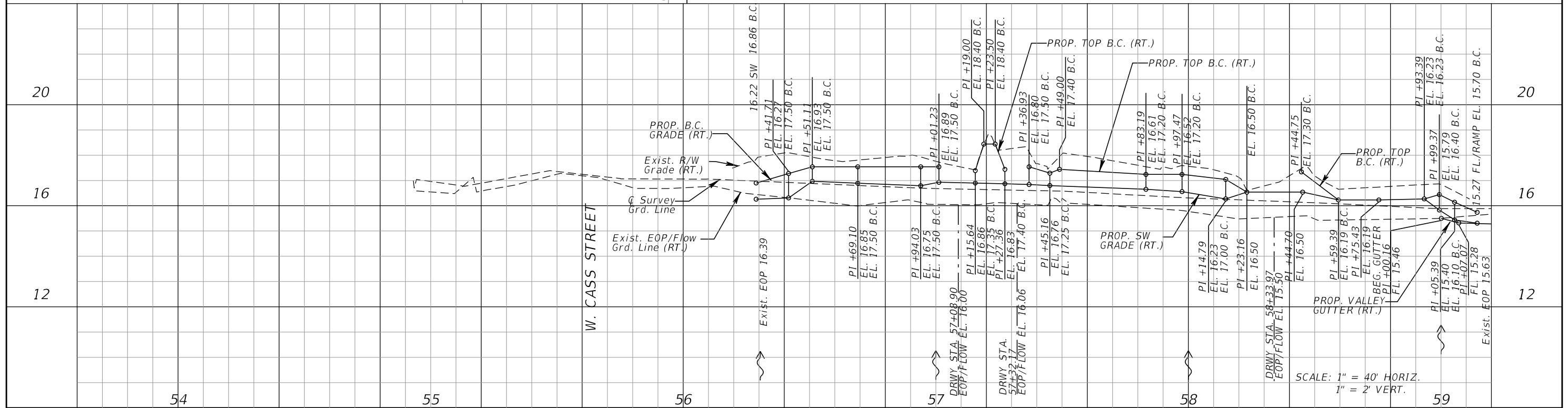
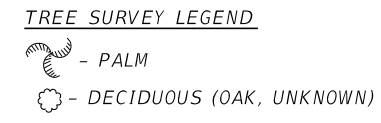
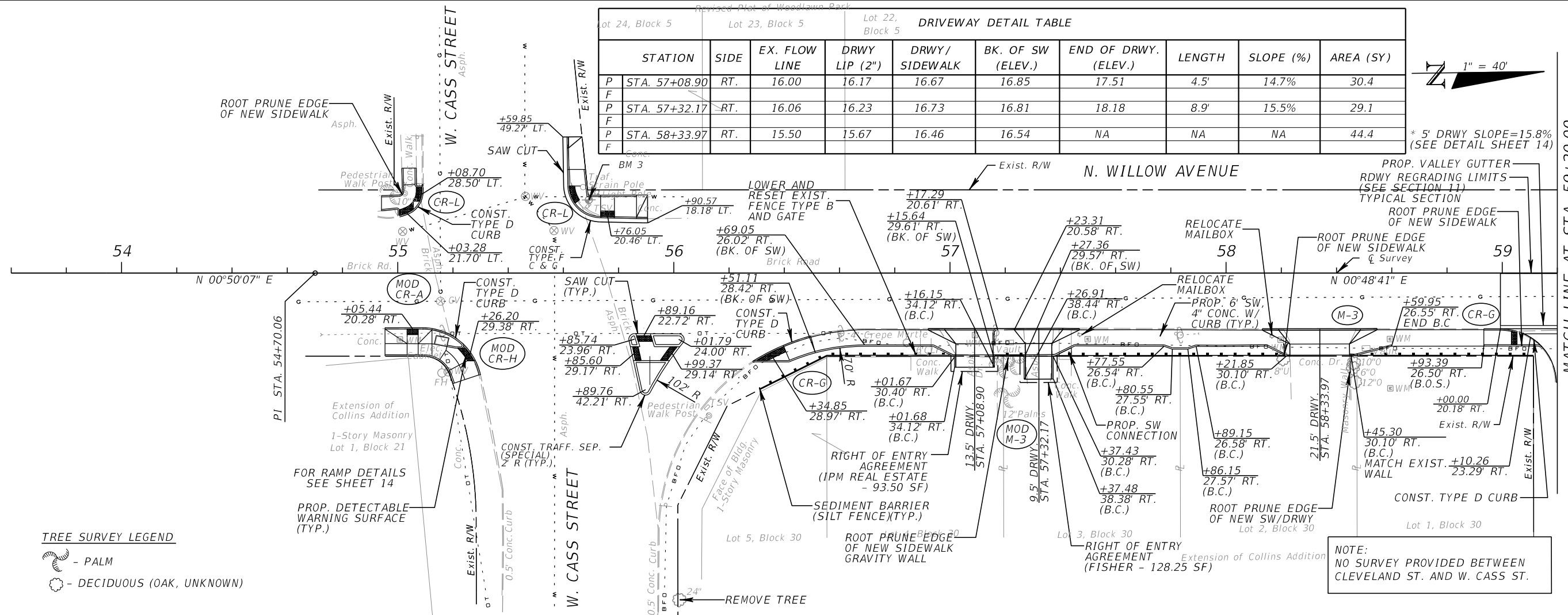
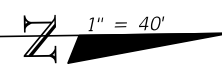
	MILLING AND RESURFACING LIMITS
--	--------------------------------



NOTE:
NO SURVEY PROVIDED BETWEEN
CLEVELAND ST. AND W. CASS ST.

REVISIONS				GREGORY S. TRIM, P.E. P.E. LICENSE NUMBER 52935 SAM SCHWARTZ ENGINEERING 2709 N. ROCKY POINT DR., SUITE 104 TAMPA, FL 33607 CERTIFICATE OF AUTHORIZATION 30268	CITY OF TAMPA TRANSPORTATION DEPARTMENT		N. WILLOW AVENUE ROADWAY PLAN (2)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		FINANCIAL PROJECT ID	CITY PROJECT ID		9
					432717-1-58-01	1000260		

DRIVEWAY DETAIL TABLE									
STATION	SIDE	EX. FLOW LINE	DRWY LIP (2")	DRWY / SIDEWALK	BK. OF SW (ELEV.)	END OF DRWY. (ELEV.)	LENGTH	SLOPE (%)	AREA (SY)
P STA. 57+08.90	RT.	16.00	16.17	16.67	16.85	17.51	4.5'	14.7%	30.4
F									
P STA. 57+32.17	RT.	16.06	16.23	16.73	16.81	18.18	8.9'	15.5%	29.1
F									
P STA. 58+33.97	RT.	15.50	15.67	16.46	16.54	NA	NA	NA	44.4
F									



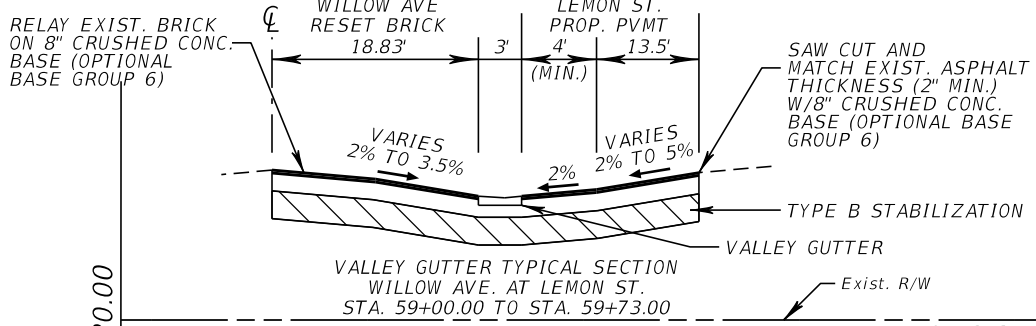
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

GREGORY S. TRIM, P.E.
 P.E. LICENSE NUMBER 52935
 SAM SCHWARTZ ENGINEERING
 2709 N. ROCKY POINT DR., SUITE 104
 TAMPA, FL 33607
 CERTIFICATE OF AUTHORIZATION 30268

CITY OF TAMPA TRANSPORTATION DEPARTMENT	
FINANCIAL PROJECT ID	CITY PROJECT ID
432717-1-58-01	1000260

**N. WILLOW AVENUE
ROADWAY PLAN (3)**

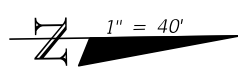
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10



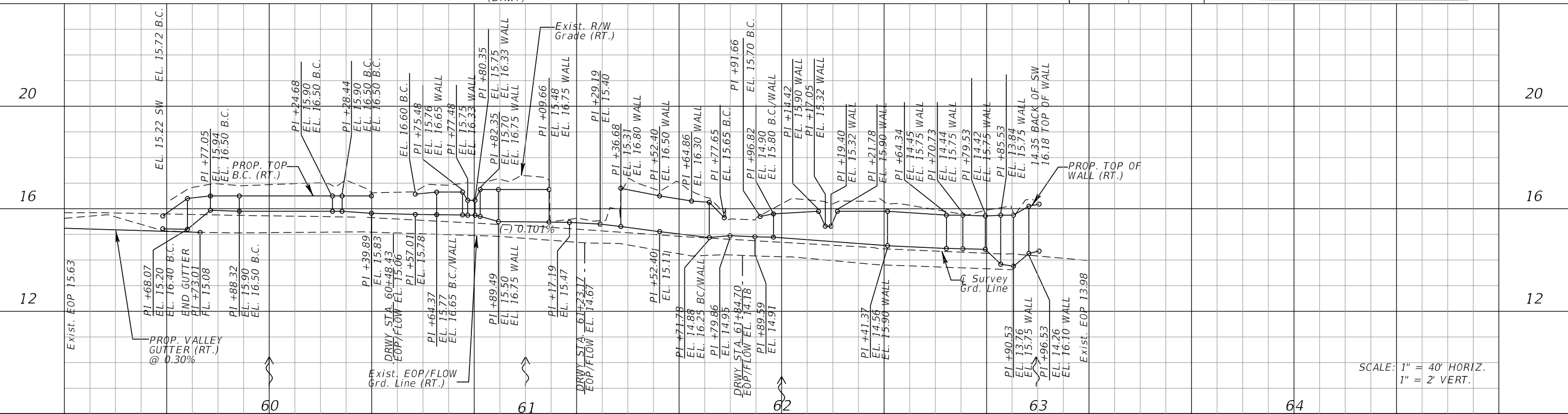
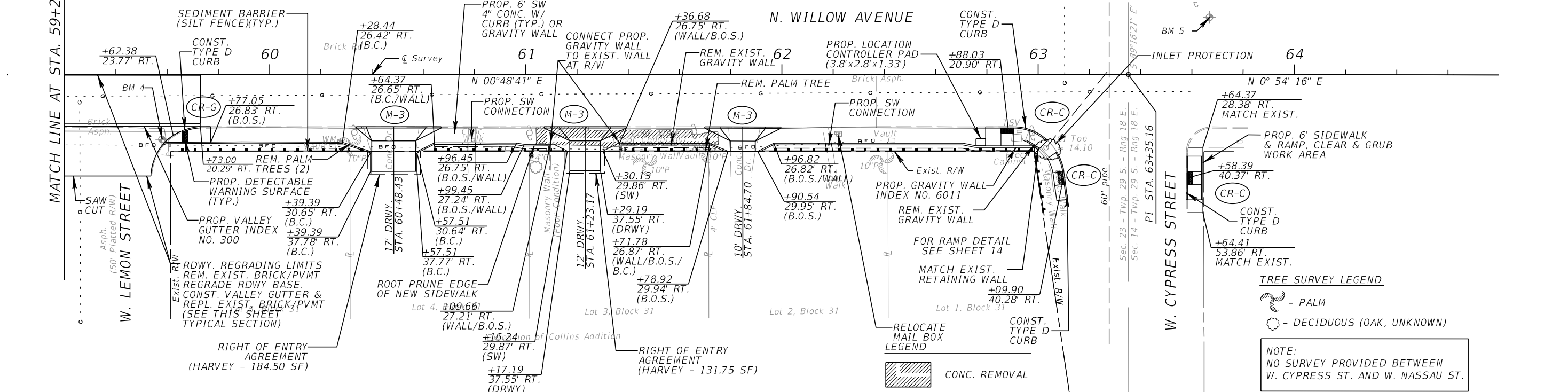
LOT 2, BLOCK 31

DRIVEWAY DETAIL TABLE

STATION	SIDE	EX. FLOW LINE	DRWY LIP (2")	DRWY / SIDEWALK	BK. OF SW (ELEV.)	END OF DRWY. (ELEV.)	LENGTH	SLOPE (%)	AREA (SY)
P STA. 60+48.43	RT.	15.06	15.23	15.73	15.81	17.15	7.9'	16.9%	39.8
F									
P STA. 61+23.17	RT.	14.67	14.84	15.34	15.42	16.50	7.7'	14.0%	19.6
F									
P STA. 61+84.74	RT.	14.18	14.35	15.51	15.59	NA	NA	NA	27.6
F									



* 5' DRWY SLOPE = 23% (SEE DETAIL SHEET 14)



REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

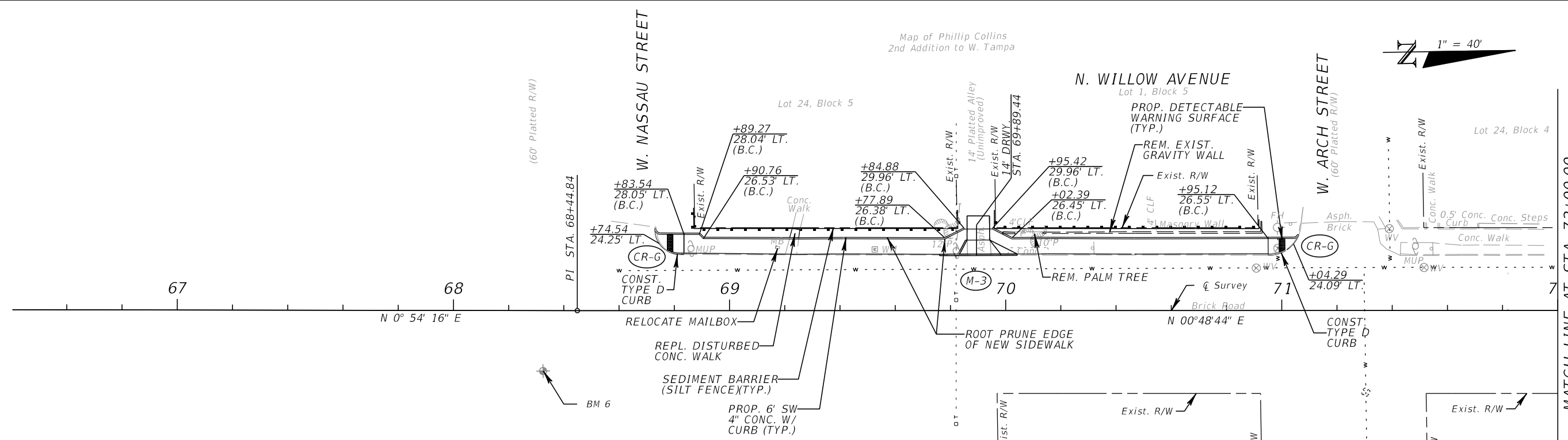
GREGORY S. TRIM, P.E.
 P.E. LICENSE NUMBER 52935
 SAM SCHWARTZ ENGINEERING
 2709 N. ROCKY POINT DR., SUITE 104
 TAMPA, FL 33607
 CERTIFICATE OF AUTHORIZATION 30268

CITY OF TAMPA
 TRANSPORTATION DEPARTMENT

FINANCIAL PROJECT ID	CITY PROJECT ID
432717-1-58-01	1000260

N. WILLOW AVENUE
 ROADWAY PLAN (4)

SHEET NO. 11



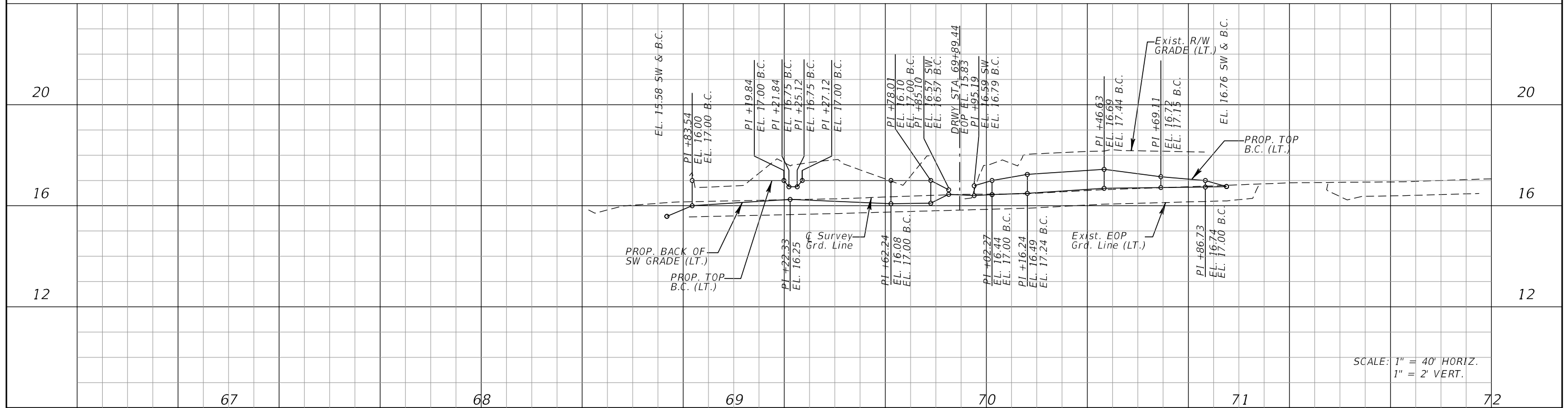
STATION	SIDE	EX. FLOW LINE	DRWY LIP (2")	DRWY/ SIDEWALK	BK. OF SW (ELEV.)	END OF DRWY. (ELEV.)	LENGTH	SLOPE (%)	AREA (SY)
P STA. 69+89.44	LT.	15.83	16.00	16.50	16.58	17.25	7.9'	8.5%	39.8
F									

TREE SURVEY LEGEND

- PALM
- DECIDUOUS (OAK, UNKNOWN)

Map of Munro's and Lewis' Addition to W. Tampa

NOTE:
NO SURVEY PROVIDED BETWEEN
W. CYPRESS ST. AND W. NASSAU ST.



SCALE: 1" = 40' HORIZ.
1" = 2' VERT.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

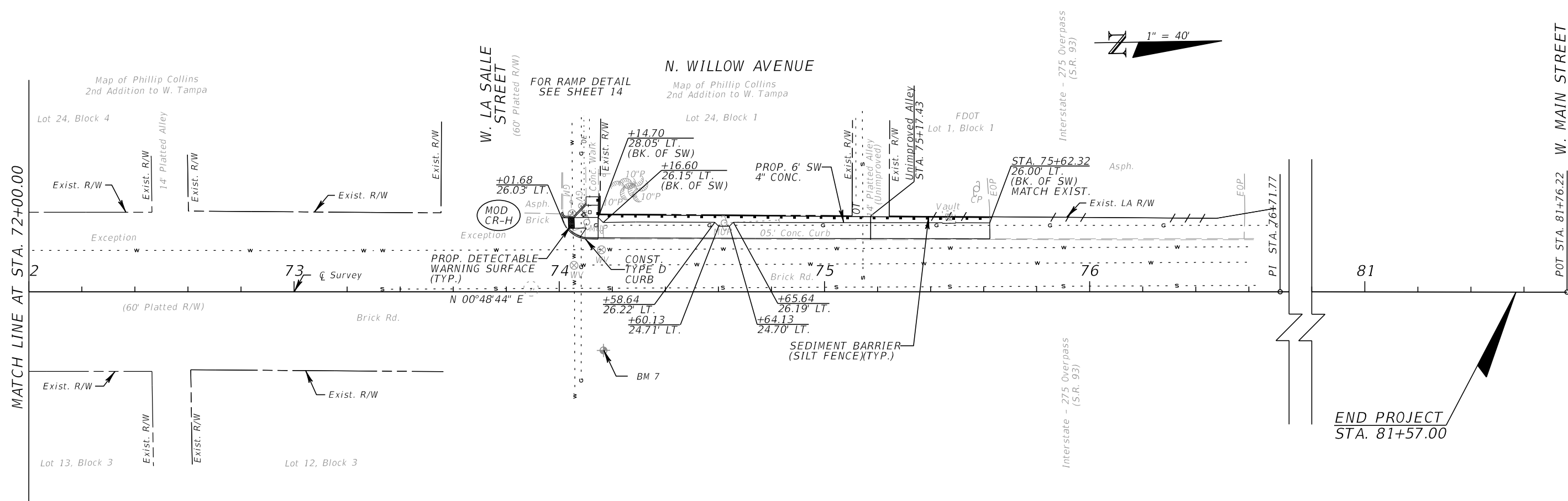
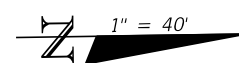
GREGORY S. TRIM, P.E.
P.E. LICENSE NUMBER 52935
SAM SCHWARTZ ENGINEERING
2709 N. ROCKY POINT DR., SUITE 104
TAMPA, FL 33607
CERTIFICATE OF AUTHORIZATION 30268

CITY OF TAMPA
TRANSPORTATION DEPARTMENT

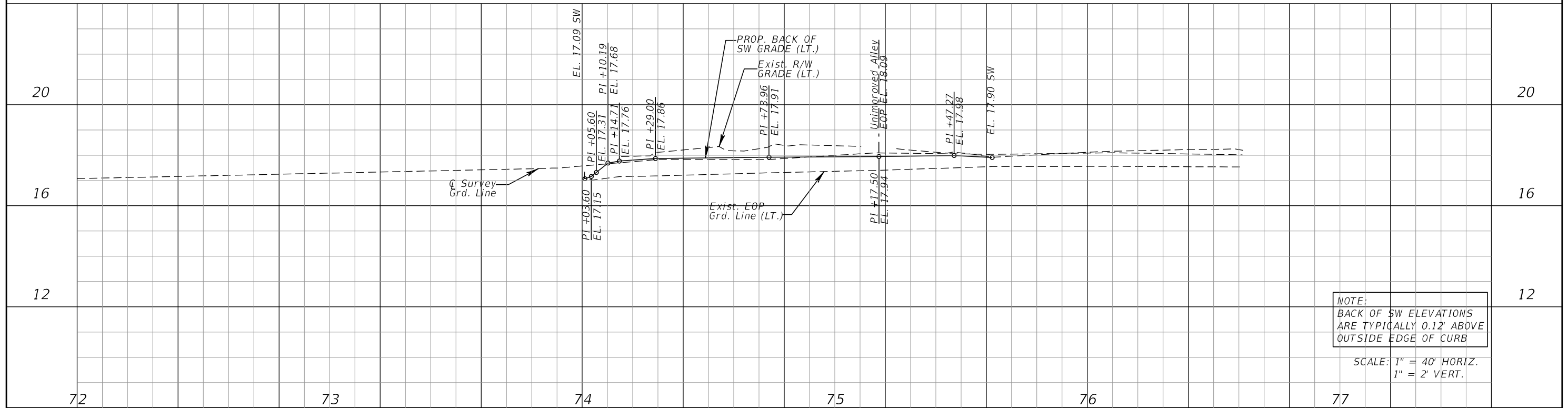
FINANCIAL PROJECT ID	CITY PROJECT ID
432717-1-58-01	1000260

N. WILLOW AVENUE
ROADWAY PLAN (5)

SHEET NO.
12



NOTE:
NO SURVEY PROVIDED BETWEEN
STA. 75+62.32 AND W. MAIN ST.



NOTE:
BACK OF SW ELEVATIONS
ARE TYPICALLY 0.12' ABOVE
OUTSIDE EDGE OF CURB

SCALE: 1" = 40' HORIZ.
1" = 2' VERT.

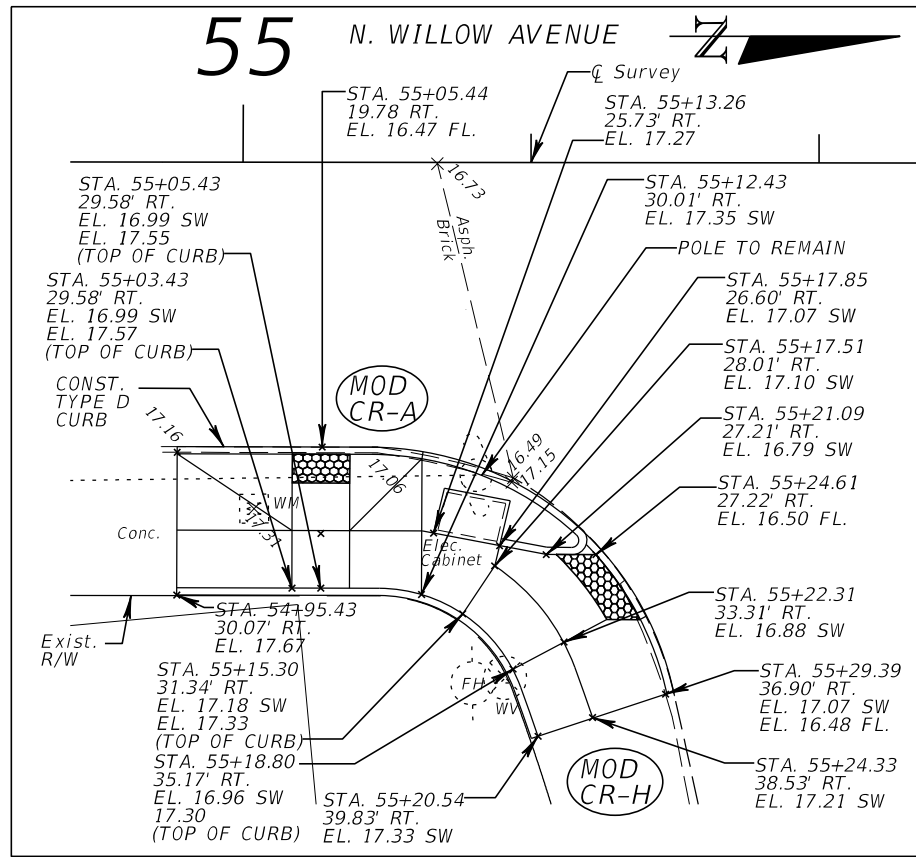
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

GREGORY S. TRIM, P.E.
P.E. LICENSE NUMBER 52935
SAM SCHWARTZ ENGINEERING
2709 N. ROCKY POINT DR., SUITE 104
TAMPA, FL 33607
CERTIFICATE OF AUTHORIZATION 30268

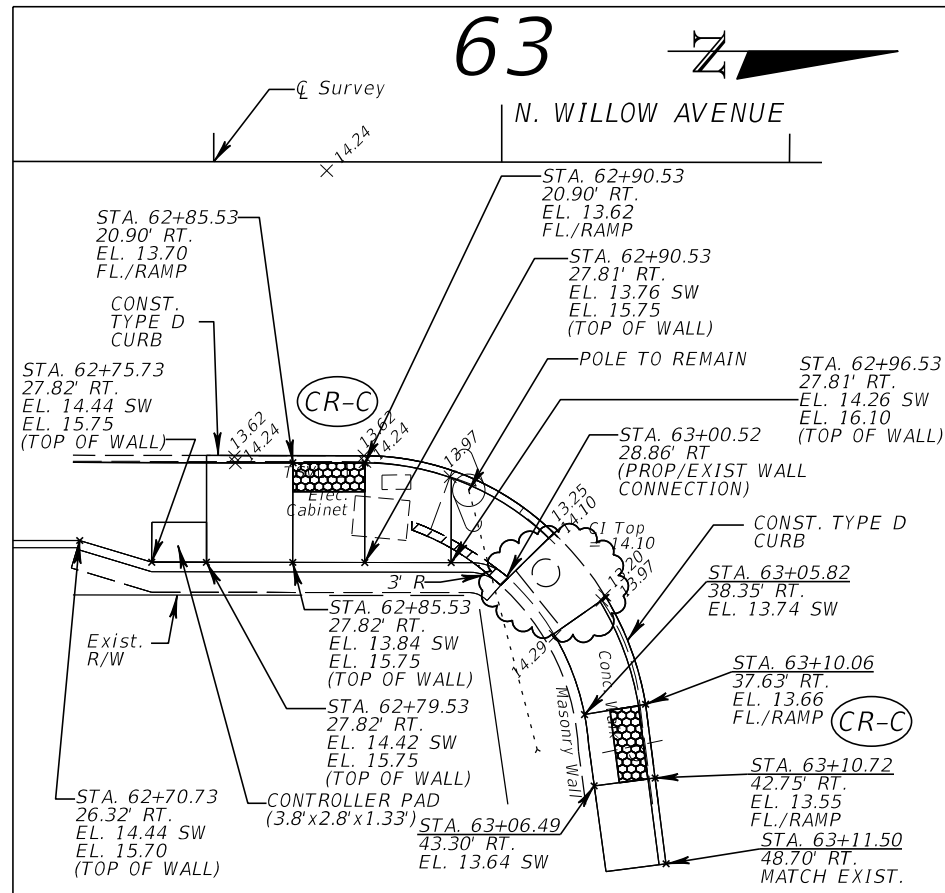
CITY OF TAMPA TRANSPORTATION DEPARTMENT	
FINANCIAL PROJECT ID	CITY PROJECT ID
432717-1-58-01	1000260

**N. WILLOW AVENUE
ROADWAY PLAN (6)**

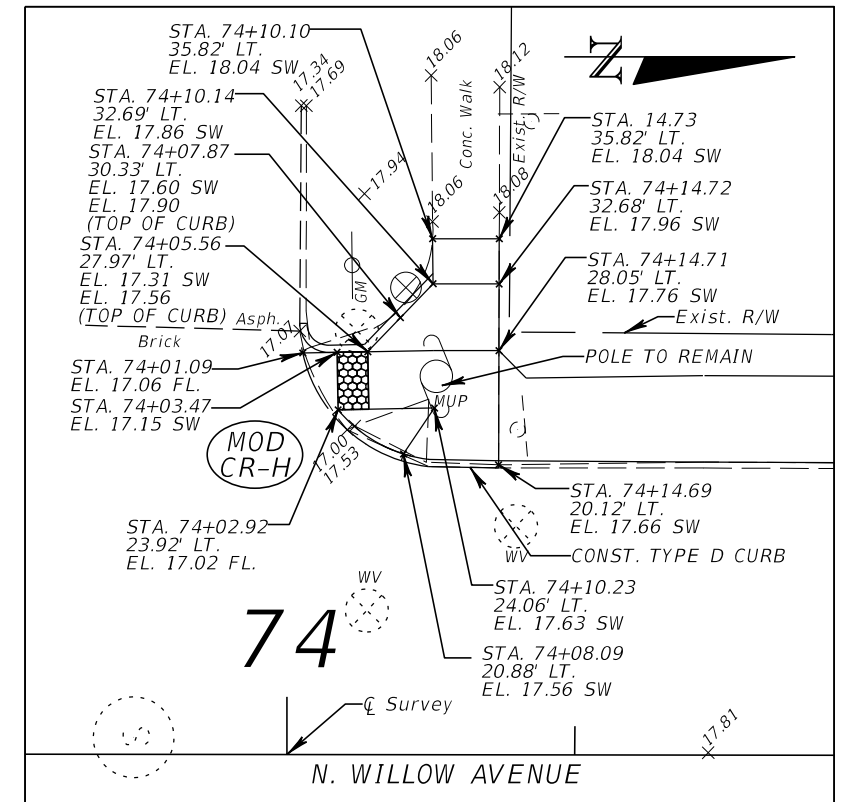
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NO.
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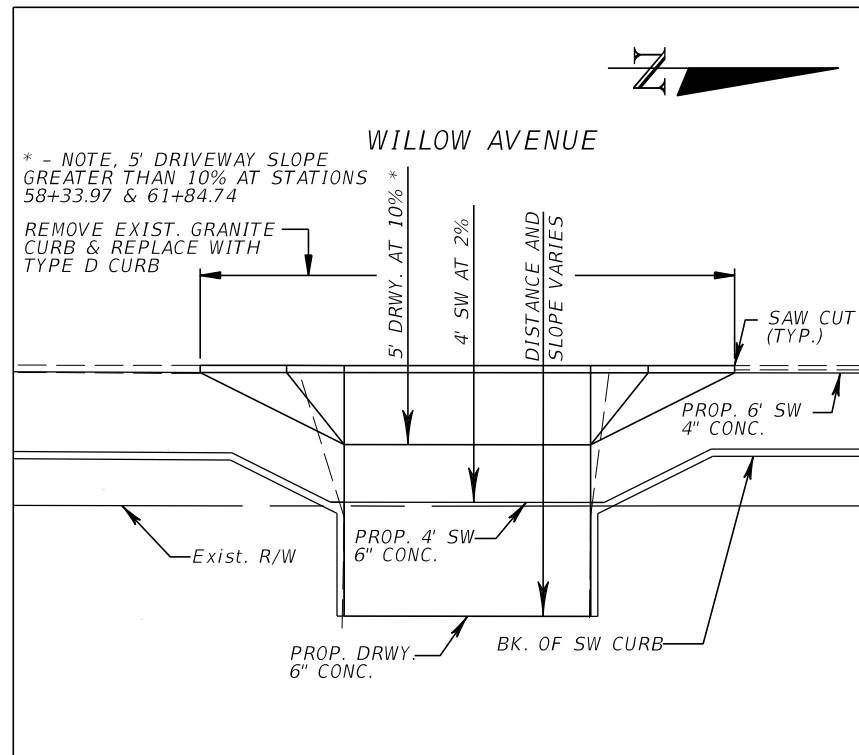
W. CASS STREET - SE CORNER



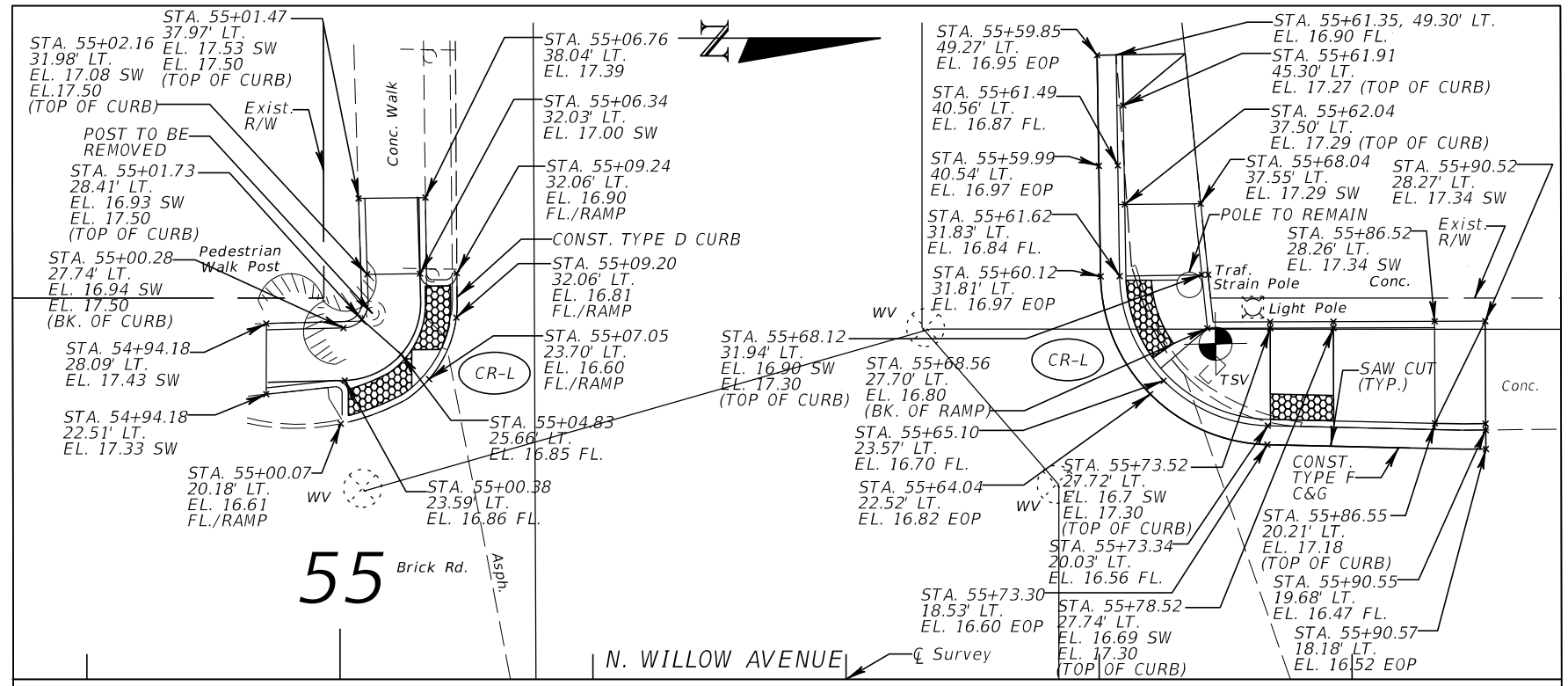
W. CYPRESS STREET - SE CORNER



W. LA SALLE STREET - NW CORNER



(M-3) DRIVEWAY DETAIL - WILLOW AVENUE



W. CASS STREET - NW & SW CORNER

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

GREGORY S. TRIM, P.E.
P.E. LICENSE NUMBER 52935
SAM SCHWARTZ ENGINEERING
2709 N. ROCKY POINT DR., SUITE 104
TAMPA, FL 33607
CERTIFICATE OF AUTHORIZATION 30268

CITY OF TAMPA TRANSPORTATION DEPARTMENT	
FINANCIAL PROJECT ID	CITY PROJECT ID
432717-1-58-01	1000260

SPECIAL DETAILS

SHEET NO.
14

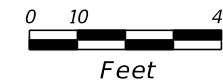
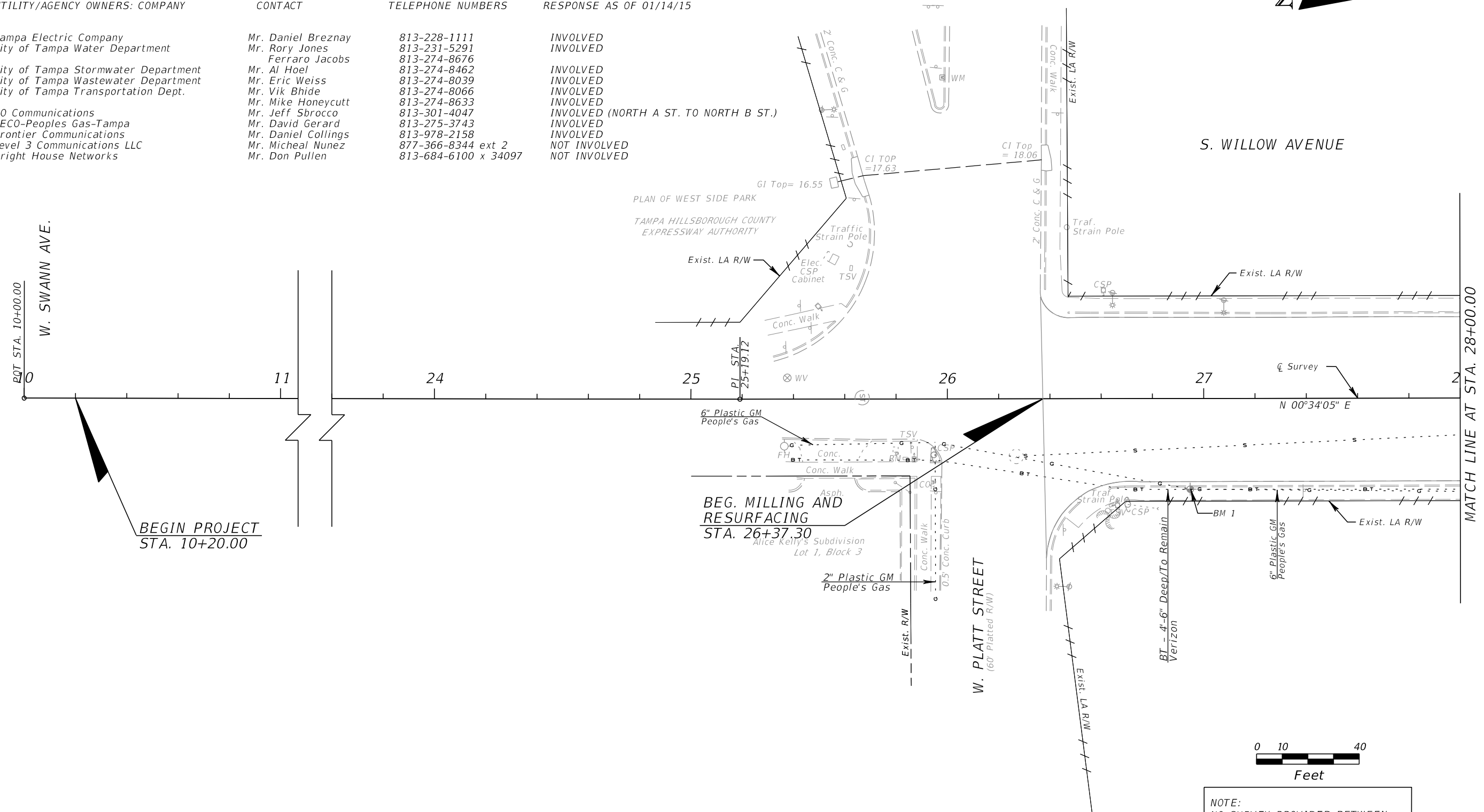
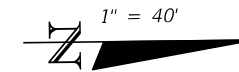
UTILITY NOTES

1. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY.

2. EXISTING UTILITIES ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.

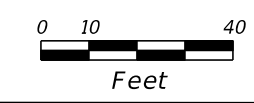
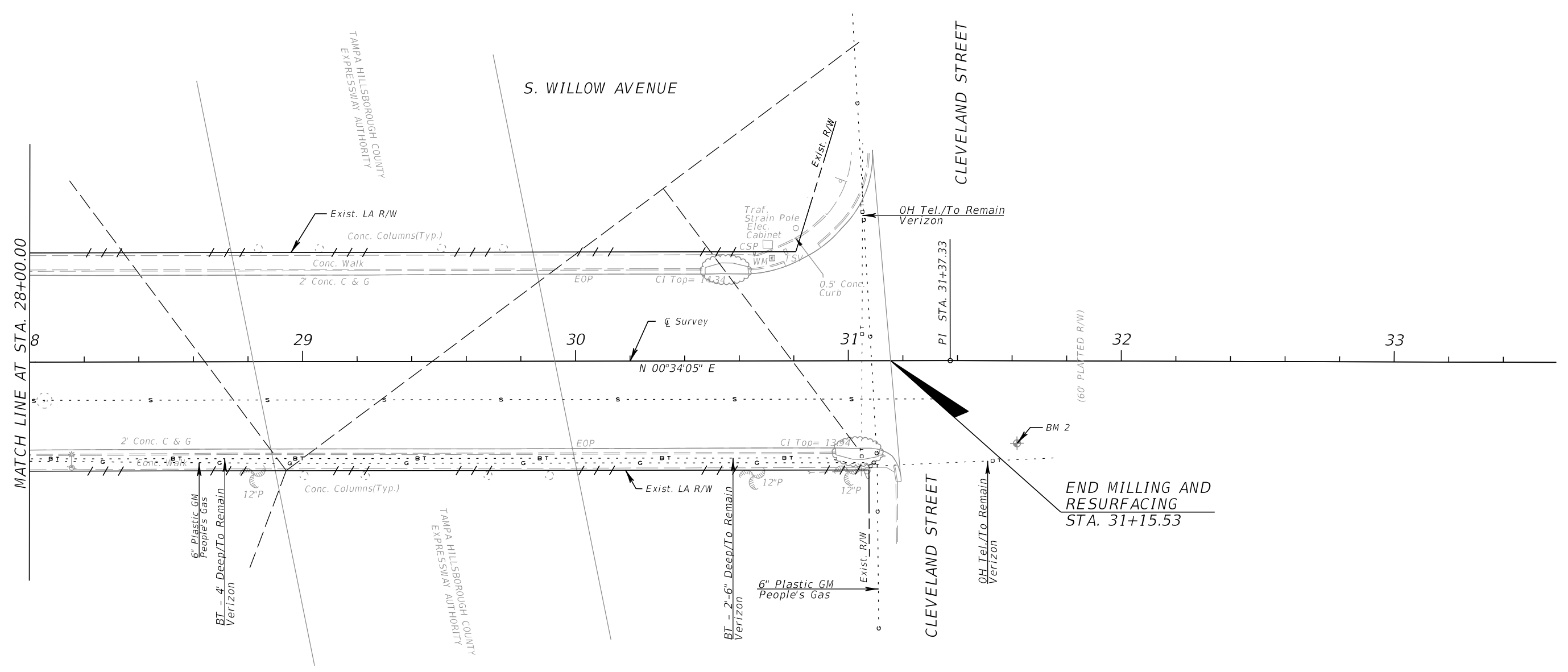
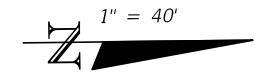
3. UTILITY/AGENCY OWNERS: COMPANY CONTACT TELEPHONE NUMBERS RESPONSE AS OF 01/14/15

Tampa Electric Company	Mr. Daniel Breznay	813-228-1111	INVOLVED
City of Tampa Water Department	Mr. Rory Jones	813-231-5291	INVOLVED
	Ferraro Jacobs	813-274-8676	
City of Tampa Stormwater Department	Mr. Al Hoel	813-274-8462	INVOLVED
City of Tampa Wastewater Department	Mr. Eric Weiss	813-274-8039	INVOLVED
City of Tampa Transportation Dept.	Mr. Vik Bhide	813-274-8066	INVOLVED
	Mr. Mike Honeycutt	813-274-8633	INVOLVED
XO Communications	Mr. Jeff Sbrocco	813-301-4047	INVOLVED (NORTH A ST. TO NORTH B ST.)
TECO-Peoples Gas-Tampa	Mr. David Gerard	813-275-3743	INVOLVED
Frontier Communications	Mr. Daniel Collings	813-978-2158	INVOLVED
Level 3 Communications LLC	Mr. Micheal Nunez	877-366-8344 ext 2	NOT INVOLVED
Bright House Networks	Mr. Don Pullen	813-684-6100 x 34097	NOT INVOLVED



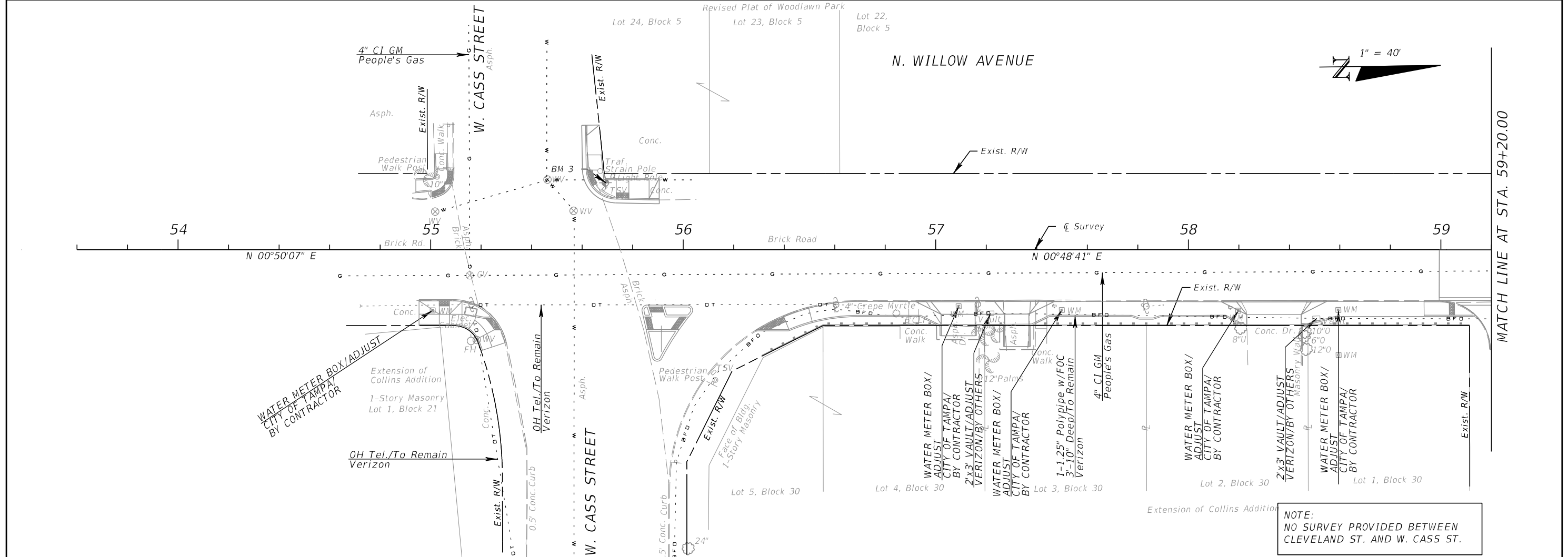
NOTE:
NO SURVEY PROVIDED BETWEEN
W. SWANN AVE. TO W. PLATT ST.

REVISIONS				GREGORY S. TRIM, P.E. P.E. LICENSE NUMBER 52935 SAM SCHWARTZ ENGINEERING 2709 N. ROCKY POINT DR., SUITE 104 TAMPA, FL 33607 CERTIFICATE OF AUTHORIZATION 30268	CITY OF TAMPA TRANSPORTATION DEPARTMENT		N. WILLOW AVENUE UTILITY ADJUSTMENTS (1)	SHEET NO. 15
DATE	DESCRIPTION	DATE	DESCRIPTION		FINANCIAL PROJECT ID	CITY PROJECT ID		
					432717-1-58-01	1000260		

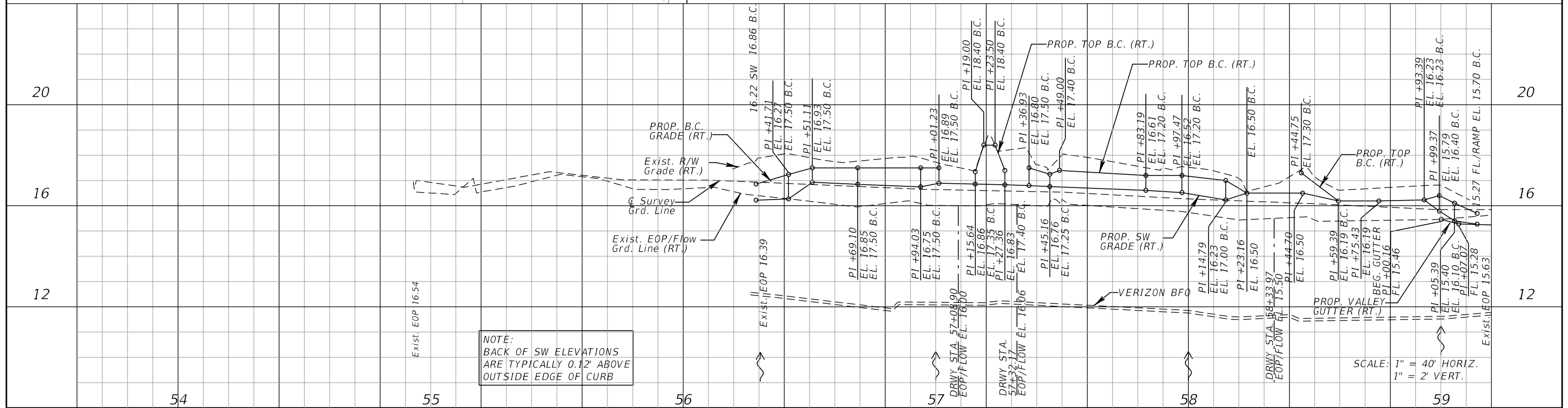


NOTE:
NO SURVEY PROVIDED BETWEEN
CLEVELAND ST. AND W. CASS ST.

REVISIONS				GREGORY S. TRIM, P.E. P.E. LICENSE NUMBER 52935 SAM SCHWARTZ ENGINEERING 2709 N. ROCKY POINT DR., SUITE 104 TAMPA, FL 33607 CERTIFICATE OF AUTHORIZATION 30268	CITY OF TAMPA TRANSPORTATION DEPARTMENT		N. WILLOW AVENUE UTILITY ADJUSTMENTS (2)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		FINANCIAL PROJECT ID	CITY PROJECT ID		
					432717-1-58-01	1000260		16



NOTE:
NO SURVEY PROVIDED BETWEEN
CLEVELAND ST. AND W. CASS ST.



NOTE:
BACK OF SW ELEVATIONS
ARE TYPICALLY 0.12' ABOVE
OUTSIDE EDGE OF CURB

SCALE: 1" = 40' HORIZ.
1" = 2' VERT.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

GREGORY S. TRIM, P.E.
P.E. LICENSE NUMBER 52935
SAM SCHWARTZ ENGINEERING
2709 N. ROCKY POINT DR., SUITE 104
TAMPA, FL 33607
CERTIFICATE OF AUTHORIZATION 30268

CITY OF TAMPA
TRANSPORTATION DEPARTMENT

FINANCIAL PROJECT ID	CITY PROJECT ID
432717-1-58-01	1000260

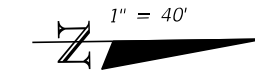
N. WILLOW AVENUE
UTILITY ADJUSTMENTS (3)

SHEET NO. 17

MATCH LINE AT STA. 59+20.00

W. LEMON STREET
Asph.
(50' Platted R/W)

N. WILLOW AVENUE



4" CI GM
People's Gas

BM 5

60 Brick Rd.

61

62

63

64

Survey
N 00°48'41" E

N 0°54'16" E

Brick/Asph.

60" pipe

60" pipe

S 89°16'21" E

Sec. 23 - Twp. 29 S. - Rng. 18 E.
Sec. 14 - Twp. 29 S. - Rng. 18 E.

W. CYPRESS STREET

NOTE:
NO SURVEY PROVIDED BETWEEN
W. CYPRESS ST. AND W. NASSAU ST.

Lot 5, Block 31

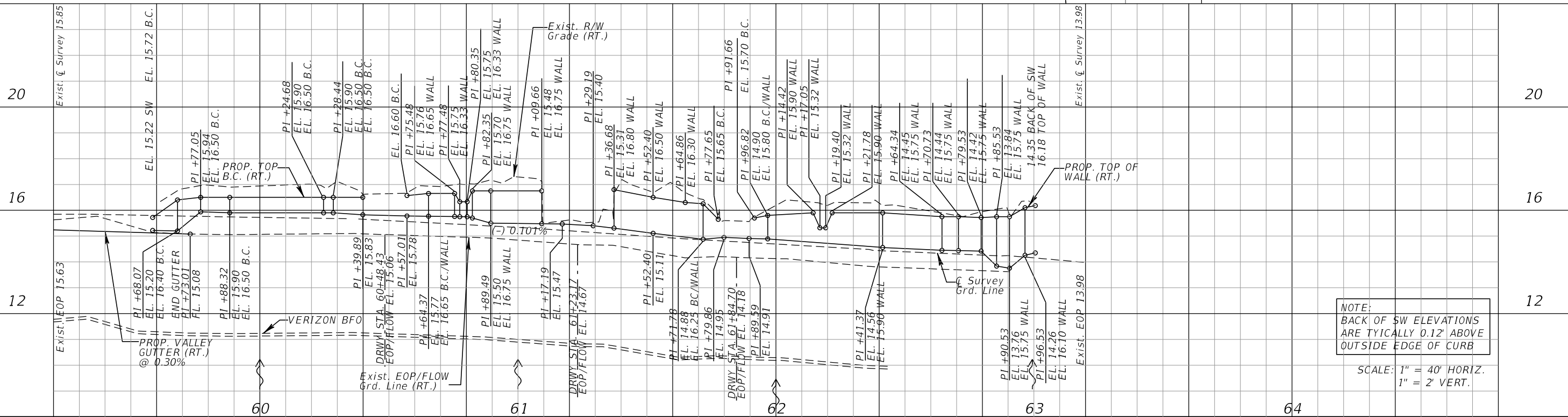
Lot 4, Block 31

Lot 3, Block 31

Lot 2, Block 31

Lot 1, Block 31

Extension of Collins Addition



NOTE:
BACK OF SW ELEVATIONS
ARE TYPICALLY 0.12' ABOVE
OUTSIDE EDGE OF CURB

SCALE: 1" = 40' HORIZ.
1" = 2' VERT.

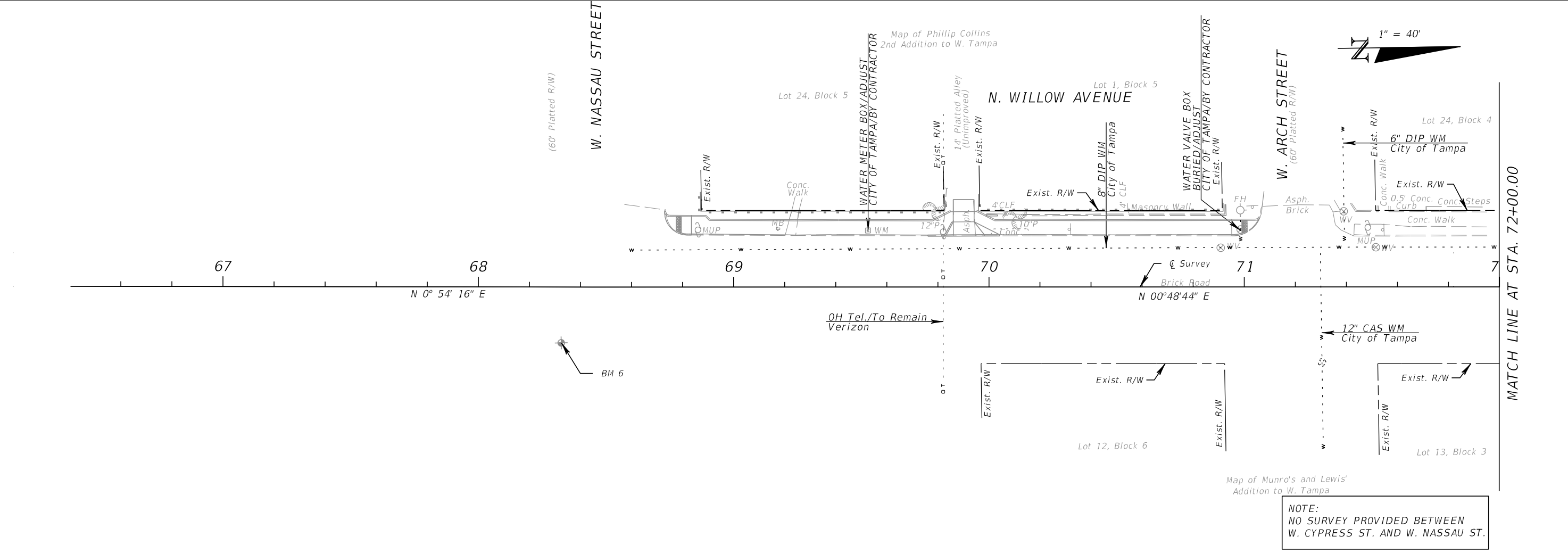
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

GREGORY S. TRIM, P.E.
P.E. LICENSE NUMBER 52935
SAM SCHWARTZ ENGINEERING
2709 N. ROCKY POINT DR., SUITE 104
TAMPA, FL 33607
CERTIFICATE OF AUTHORIZATION 30268

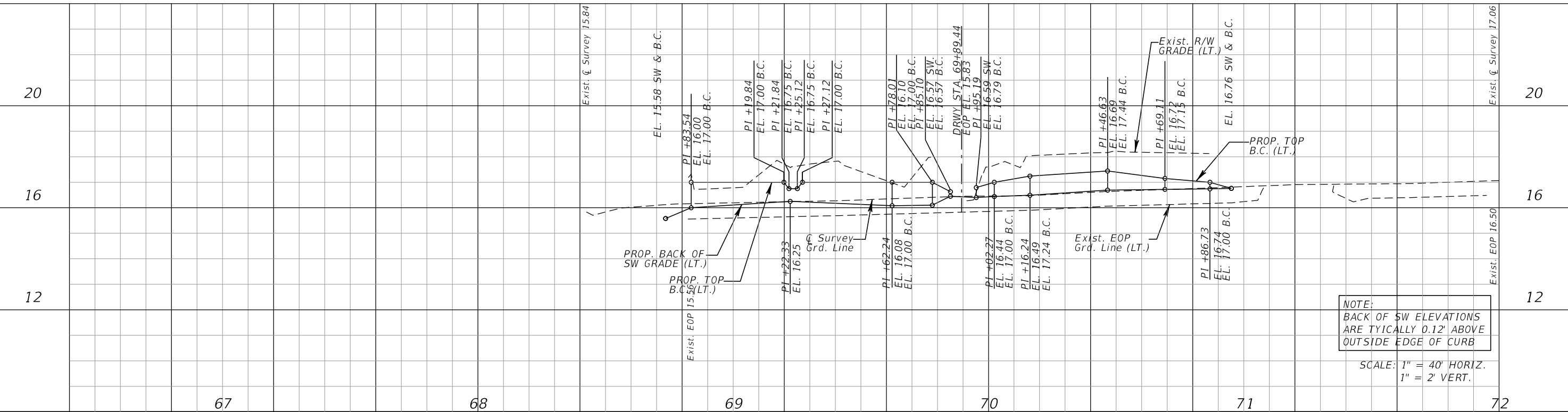
CITY OF TAMPA TRANSPORTATION DEPARTMENT	
FINANCIAL PROJECT ID	CITY PROJECT ID
432717-1-58-01	1000260

N. WILLOW AVENUE
UTILITY ADJUSTMENTS (4)

SHEET NO.
18



NOTE:
NO SURVEY PROVIDED BETWEEN
W. CYPRESS ST. AND W. NASSAU ST.



NOTE:
BACK OF SW ELEVATIONS
ARE TYPICALLY 0.12' ABOVE
OUTSIDE EDGE OF CURB

SCALE: 1" = 40' HORIZ.
1" = 2' VERT.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

GREGORY S. TRIM, P.E.
P.E. LICENSE NUMBER 52935
SAM SCHWARTZ ENGINEERING
2709 N. ROCKY POINT DR., SUITE 104
TAMPA, FL 33607
CERTIFICATE OF AUTHORIZATION 30268

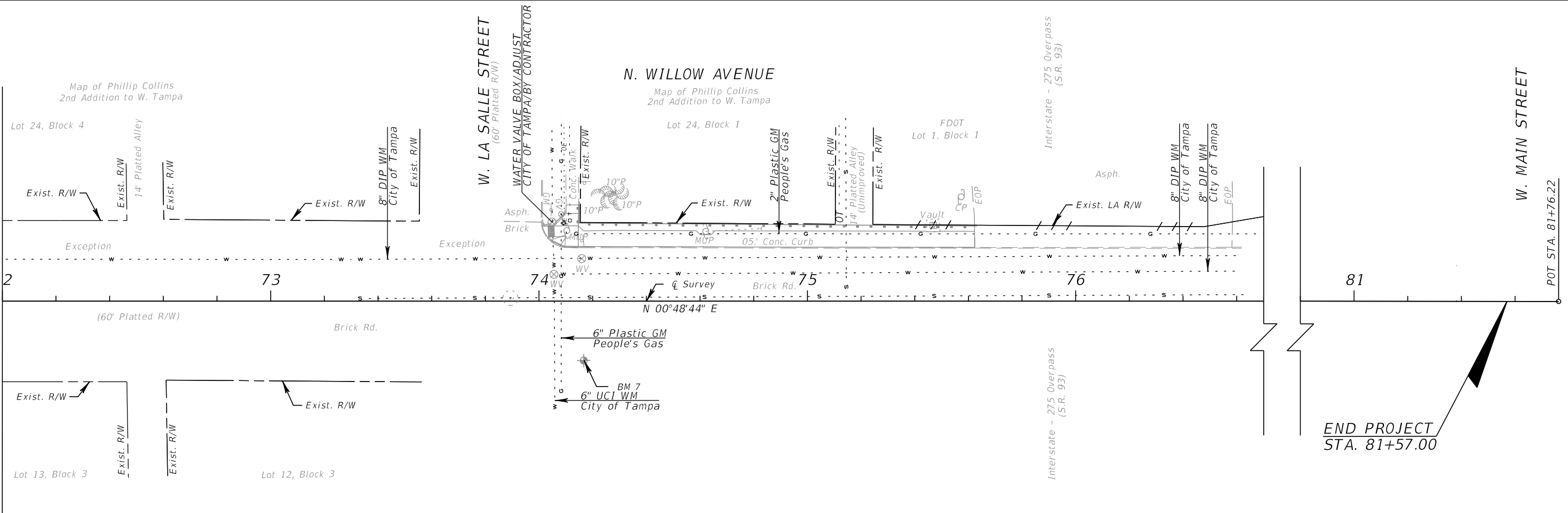
CITY OF TAMPA
TRANSPORTATION DEPARTMENT

FINANCIAL PROJECT ID	CITY PROJECT ID
432717-1-58-01	1000260

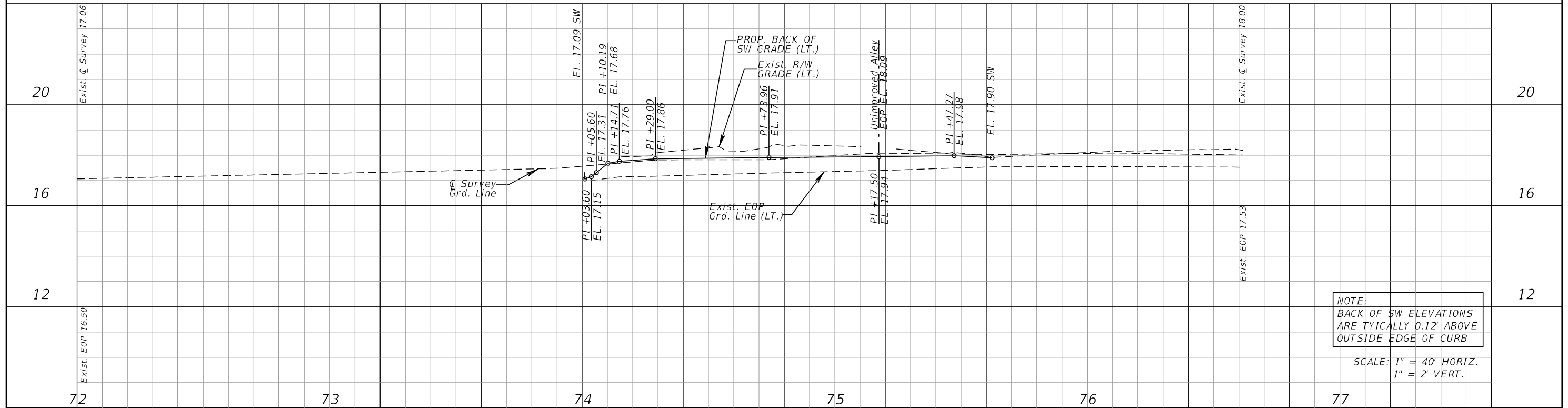
N. WILLOW AVENUE
UTILITY ADJUSTMENTS (5)

SHEET NO.
19

MATCH LINE AT STA. 72+00.00



NOTE:
NO SURVEY PROVIDED BETWEEN
STA. 75+62.32 AND W. MAIN ST.



NOTE:
BACK OF SW ELEVATIONS
ARE TYPICALLY 0.12' ABOVE
OUTSIDE EDGE OF CURB

SCALE: 1" = 40' HORIZ.
1" = 2' VERT.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

GREGORY S. TRIM, P.E.
P.E. LICENSE NUMBER 52935
SAM SCHWARTZ ENGINEERING
2709 N. ROCKY POINT DR., SUITE 104
TAMPA, FL 33607
CERTIFICATE OF AUTHORIZATION 30268

CITY OF TAMPA TRANSPORTATION DEPARTMENT	
FINANCIAL PROJECT ID	CITY PROJECT ID
432717-1-58-01	1000260

**N. WILLOW AVENUE
UTILITY ADJUSTMENTS (6)**

SHEET
NO.
20

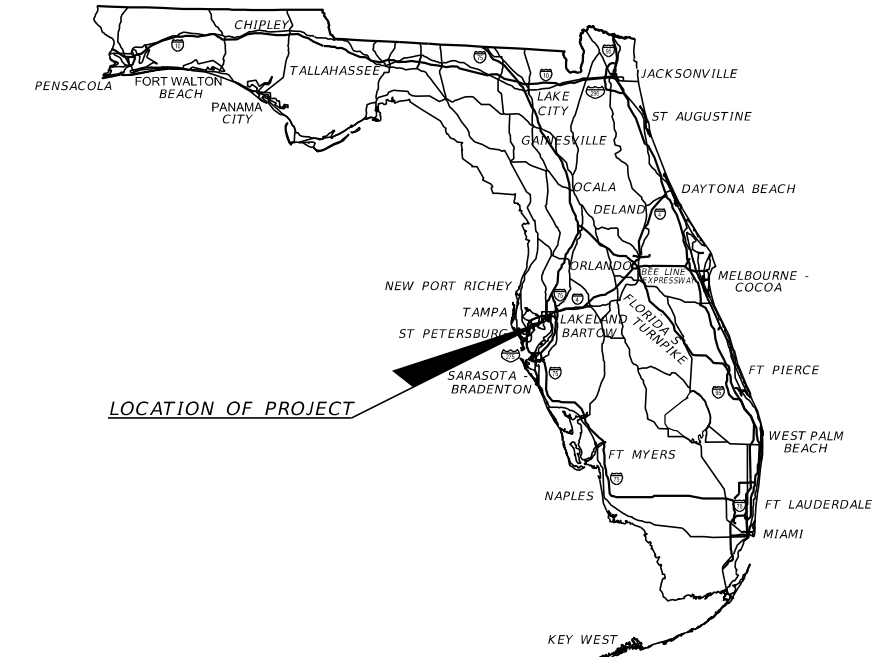
*CITY OF TAMPA
DEPARTMENT OF TRANSPORTATION*

CONTRACT PLANS

CITY OF TAMPA PROJECT ID 1000260
FINANICAL PROJECT ID: 432717-1-58-01
(FEDERAL FUNDS)

WILLOW AVENUE FROM SWANN AVENUE TO MAIN STREET
BIKE LANE/SIDEWALK PROJECT

SIGNALIZATION PLANS



INDEX OF SIGNALIZATION PLANS

<i>SHEET NO.</i>	<i>SHEET DESCRIPTION</i>
T-1	KEY SHEET
T-2	TABULATION OF QUANTITIES
T-3	GENERAL NOTES
T-4 to T-7	SIGNAL PLAN

*SIGNALIZATION PLANS
ENGINEER OF RECORD:*

FELICIA A. PANNELL, P.E. NO.: 66348
SAM SCHWARTZ ENGINEERING, D.P.C., PA
2709 N. ROCKY POINT DR., SUITE 104
TAMPA, FL 33607
(813) 289-7771
CONTRACT NO.: 13-05-1893
VENDOR NO.: 46-1885050
CERTIFICATE OF AUTHORIZATION NO.: 30268

GEC PROJECT MANGER:

CHRIS MEARES, P.E.

*CITY OF TAMPA
PROJECT MANAGER:*

NINA S. MABILLEAU, E.I.

FINAL PLANS SUBMITTAL - 04/10/17

<i>FISCAL YEAR</i>	<i>SHEET NO.</i>
17	T-1

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																				TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET
			T - 4		T - 5		T - 6		T - 7																		
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL			
630 2 11	CONDUIT, F&I, OPEN TRENCH, UNDERGROUND	LF	4				57		79														140		140		
630 2 12	CONDUIT, F&I, DIRECTIONAL BORE	LF			4		203		151														358		358		
632 7 2	SIGNAL CABLE - REPAIR/REPLACE/OTHER F&I	LF					266		366														632		632		
635 2 11	PULL BOX, F&I, 13x24	EA					4		9														13		13		
639-2-1	ELECTRICAL SIGNAL CABLE, F&I	LF							20														20		20		
646 1 11	ALUMINUM SIGNALS POLE, PEDESTAL	EA					6		3														9		9		
646 1 60	ALUMINUM SIGNALS POLE, REMOVE	EA					2																2		2		
650 1 14	TRAFFIC SIGNAL, F&I, ALUMINUM, 3-SECTION/1-WAY	AS	3																				3		3		
650 1 60	TRAFFIC SIGNAL, REMOVE	AS	1																				1		1		
650 1 70	TRAFFIC SIGNAL, RELOCATE	AS			2																		2		2		
653-1-11	PEDESTRIAN SIGNAL, F&I, LED COUNTDOWN, 1-WAY	AS					6		2														8		8		
653-1-12	PEDESTRIAN SIGNAL, F&I, LED COUNTDOWN, 2-WAY	AS					1																1		1		
653-1-40	PEDESTRIAN SIGNAL, RELOCATE	AS							1														1		1		
653-1-60	PEDESTRIAN SIGNAL, REMOVE	AS							2														2		2		
660 2 101	LOOP ASSEMBLY-F&I, TYPE A	AS			1				2														3		3		
660 2 106	LOOP ASSEMBLY-F&I, TYPE F	AS			1																		1		1		
660 3 11	VEHICULAR DETECTION SYSTEM, MICROWAVE, F&I, CABINET SYSTEM	EA	1																				1		1		
660 3 12	VEHICULAR DETECTION SYSTEM, MICROWAVE, F&I, ABOVE GROUND EQUIPMENT	EA	1																				1		1		
665 1 11	PEDESTRIAN DETECTOR, F&I, STANDARD	EA					7		2														9		9		
665 1 40	PEDESTRIAN DETECTOR, RELOCATE	EA					1		1														2		2		
665 1 60	PEDESTRIAN DETECTOR, REMOVE	EA					2		2														4		4		
670 5 110	TRAFFIC CONTROLLER - ASSEMBLY, F&I, NEMA	AS	1																				1		1		
670 5 400	TRAFFIC CONTROLLER ASSEMBLY, MODIFY	AS					1																1		1		
670 5 500	TRAFFIC CONTROLLER ASSEMBLY, RELOCATE	AS							1														1		1		
670 5 600	TRAFFIC CONTROLLER - ASSEMBLY, REMOVE	AS	1																				1		1		
700 3 201	SIGN PANEL, F&I, OVERHEAD MOUNT, UP TO 12 SF	EA	2																				2		2		
700 3 501	SIGN PANEL, RELOCATE, UP TO 12 SF	EA	1																				1		1		

<table border="1"> <thead> <tr> <th colspan="4">REVISIONS</th> </tr> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				REVISIONS				DATE	DESCRIPTION	DATE	DESCRIPTION					FELICIA A. PANNELL, P.E. P.E. LICENSE NUMBER 66348 SAM SCHWARTZ ENGINEERING 2709 N. ROCKY POINT DR., SUITE 104 TAMPA, FL 33607 CERTIFICATE OF AUTHORIZATION 30268				CITY OF TAMPA TRANSPORTATION DEPARTMENT FINANCIAL PROJECT ID: 432717-1-58-01 CITY PROJECT ID: 1000260				TABULATION OF QUANTITIES				SHEET NO. T-2	
REVISIONS																													
DATE	DESCRIPTION	DATE	DESCRIPTION																										

GENERAL NOTES

1. NO AS BUILTS ARE AVAILABLE AT ANY OF THE SIGNALIZED INTERSECTIONS SHOWN IN THE SIGNALIZATION PLANS.
2. ONE WEEK PRIOR TO THE START OF THE TRAFFIC SIGNAL INSTALLATION, THE SIGNAL CONTRACTOR SHALL CONTACT:
 A) MR. SCOTT KEITH, TRAFFIC SIGNAL SUPERVISOR
 CITY OF TAMPA
 3802 E. 26TH AVENUE
 TAMPA, FLORIDA 33605
 PHONE: (813)622-1974
 EMAIL: scott.keith@tampagov.net
3. PRIOR TO ALL TRAFFIC SIGNAL CHANGES (I.E., MAINTENANCE OF TRAFFIC CHANGES, NEW SIGNAL INSTALLATIONS, DIFFERENT PAVEMENT CONFIGURATIONS, ETC.), CONTACT F.D.O.T. DISTRICT SEVEN TRAFFIC OPERATIONS, AT (813) 975-6232, AT LEAST 48 HOURS IN ADVANCE FOR IMPLEMENTATION OF APPROPRIATE SIGNAL TIMINGS.
4. THE CONTRACTOR SHALL CONTACT THE LOCAL POWER COMPANY FOR THEIR ASSISTANCE IN PERFORMING ALL NECESSARY WORK UNDER POWER LINES. SUCH WORK SHALL INCLUDE, BUT NOT BE LIMITED TO THE INSTALLATION OF SPAN WIRE, SIGNAL CABLE, FIBERGLASS INSULATORS, AND / OR SIGNAL POLES.
5. AT THE SIGNALIZED INTERSECTION OF W. PLATT STREET AND N. WILLOW AVENUE, THE CITY OF TAMPA INSTALLED A NEW OVERHEAD SPAN WIRE AND SIGNAL CABLE PRIOR TO THE CONSTRUCTION OF THIS PROJECT. FOUR HANGERS WERE INSTALLED TO ACCOMMODATE THE PHASING PROPOSED FOR THIS PROJECT.
6. ANY TRAFFIC SIGNAL EQUIPMENT RELOCATION WILL BE PERFORMED BY CITY FORCES, CONTACT VIK BHITE (813) 274-8066 WHEN THE INITIAL PAVEMENT MARKINGS ARE COMPLETE.
7. DAMAGED LOOPS & FEEDERS WILL BE REPLACED AS PART OF THIS PROJECT. BEFORE THE LOOPS ARE CUT, NOTIFY TRAFFIC OPERATIONS ED ABBOT AT (813) 622-1967, (813) 274-1974 OR (813) 274-1969 SO THAT HE CAN ORGANIZE REPLACEMENT.
8. CONTRACTOR SHALL REQUEST GENERAL INFORMATION PACKAGE FROM SIGNAL SHOP. NO DAISY CHAINING OF PEDESTRIAN CABLE. CONTACT JAMES COOK TO VERIFY STREET NAME SIGNS. CONTACT JIMMY FOUNTAIN FOR ADVICE TO MOUNT RADAR.

PAY ITEM FOOTNOTES:

1. 630-2-11 & 630-2-12:
 ALL CONDUIT RUNS SHOWN ON THE PLANS ARE SCHEMATIC AND FIELD ADJUSTMENTS MAY BE NECESSARY. WITH THE EXCEPTION OF ELECTRICAL POWER SERVICE DUCTS, AND JACK AND BORE SLEEVES, ALL UNDERGROUND AND UNDER PAVEMENT CONDUITS SHALL BE SCHEDULE 40 PVC WITH A MINIMUM SIZE OF TWO INCHES, UNLESS OTHERWISE SPECIFIED IN THE PLANS.
2. 646-1-11:
 ALL ALUMINUM SIGNAL PEDESTAL POLES SHALL BE MOUNTED ON TRANSFORMER BASES AND SHALL BE GROUNDED AT THE TRANSFORMER BASE.
3. 660-2-101 & 660-2-106:
 THE CONTRACTOR SHALL NOTIFY THE CITY OF TAMPA SIGNAL SHOP AT LEAST 48 HOURS IN ADVANCE OF LOOP CUTTING.
4. 670-5-110:
 THE CONTRACTOR SHALL NOTIFY THE CITY OF TAMPA SIGNAL SHOP AND F.D.O.T. DISTRICT SEVEN TRAFFIC OPERATIONS (VIA EMAIL) AT LEAST 48 HOURS IN ADVANCE OF TURNING ON A NEW OR MODIFIED CONTROLLER CABINET ASSEMBLY. CABINET DOOR SHOULD OPEN AWAY FROM TRAFFIC. THE TECHNICIAN SERVICE SLAB SHALL BE A MAXIMUM OF 4" BELOW THE TOP OF THE CONCRETE PAD. THE CABINET SHALL INCLUDE AN EIGHT PHASE BACKPLANE WITH A MINIMUM OF 16 POSITIONS ON THE LOAD BAY AND SHALL INCLUDE ADDITIONAL COST OF LABOR, CONCRETE, AND OTHER MATERIALS FOR CONTROLLER BASE, PAD, AND STEPS, AS ONE UNIT. THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF TAMPA SIGNAL SHOP FOR ACCEPTABLE CHOICES OF TRAFFIC CONTROLLER AND CONTROLLER CABINET.
5. 670-5-400:
 ADD ADDITIONAL PEDESTRIAN DETECTORS IN CABINET.

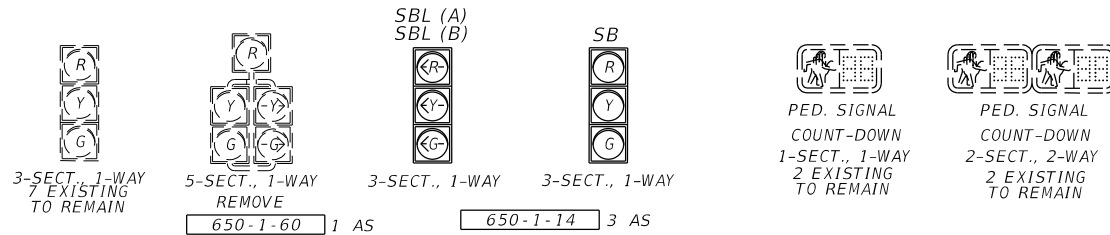
 MODIFY EXISTING CONTROLLER AND PERFORM ANY CABINET AND FIELD WIRING NECESSARY TO REPLACE PEDESTRIAN SIGNALS PER PLAN.

 CORE-DRILL EXISTING CONTROLLER CABINET BASE AND INSTALL NEW CONDUITS IF SPARE CONDUIT STUB-OUTS CANNOT BE USED. INSTALL NEW CONDUITS INTO THE EXISTING FOUNDATION AS REQUIRED IN PLANS. WHEN ADDITIONAL CONDUITS ARE REQUIRED, THE CONDUIT SHALL BE A MINIMUM OF 2" DIAMETER. LOCATE NEW CONDUITS SO THEY WILL NOT OBSTRUCT THE MAINTENANCE OF EQUIPMENT IN THE CABINET OR THE ANCHORING OF THE CABINET FLANGE TO THE CONCRETE FOUNDATION.

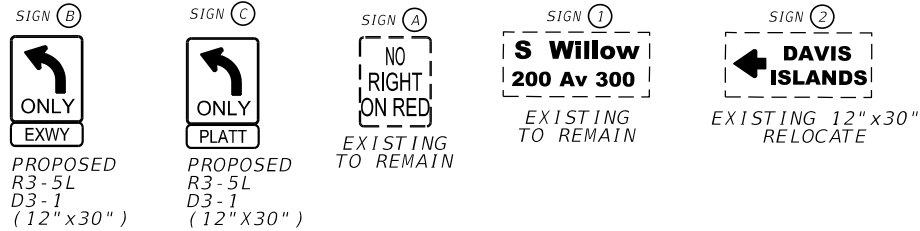
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING INTERNAL CABINET AND EQUIPMENT FROM DUST AND DEBRIS CAUSED BY CORE DRILLING.

REVISIONS				FELICIA A. PANNELL, P.E. P.E. LICENSE NUMBER 66348 SAM SCHWARTZ ENGINEERING 2709 N. ROCKY POINT DR., SUITE 104 TAMPA, FL 33607 CERTIFICATE OF AUTHORIZATION 30268	CITY OF TAMPA TRANSPORTATION DEPARTMENT		GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		FINANCIAL PROJECT ID	CITY PROJECT ID		
					432717-1-58-01	1000260		

SIGNAL HEAD DETAILS:

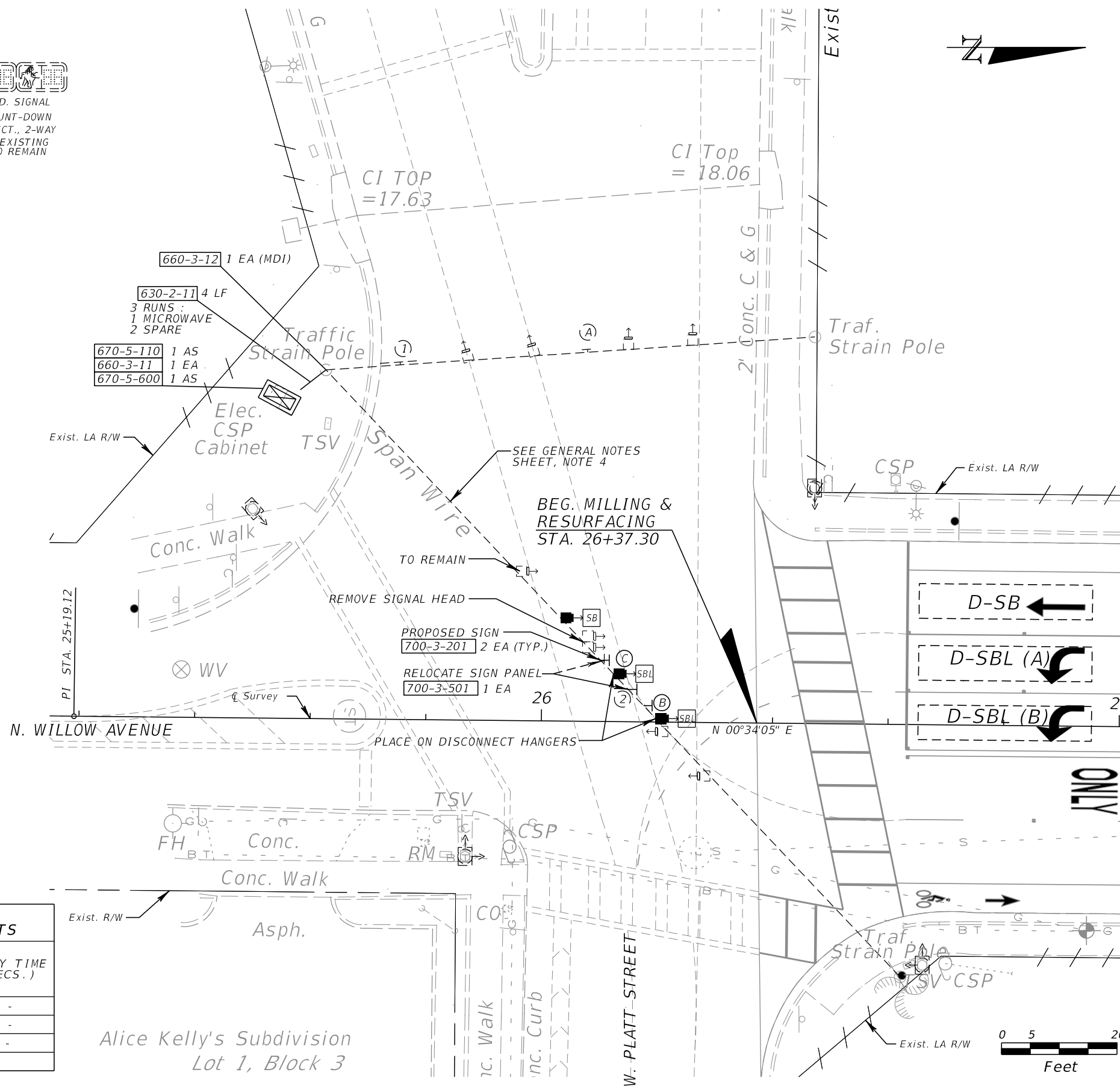


SPAN WIRE SIGNS



CONTROLLER OPERATIONS:

1. THE MAJOR STREET IS W. PLATT STREET, (MOVEMENT EB & EB RAMP); MINOR STREET IS N. WILLOW AVENUE (MOVEMENTS N/S)
2. THE PROPOSED SOP WILL BE DETERMINED BY THE CITY OF TAMPA PRIOR TO CONSTRUCTION.
3. THE CONTROLLER SHALL BE MODEL ASC/3-2100 AND THE CONTROLLER CABINET SHALL BE MODEL TS2, TYPE 1.
4. EACH PHASE/MOVEMENT SHALL BE WIRED FROM THE SIGNAL DISPLAY TO THE CONTROLLER AS A SEPERATE PHASE/MOVEMENT. THIS INCLUDES LEFT TURN MOVEMENTS. EACH LEFT TURN MOVEMENT SHALL HAVE CONDUCTORS AVAILABLE FOR PROTECTED AND PERMISSIVE OPERATION.
5. CURRENTLY NO LOOPS EXIST ON NB MOVEMENT ALONG N. WILLOW AVENUE. THE SB MOVEMENTS WILL BE REPLACED WITH MICROWAVE DETECTION.
6. THE COPPER COMMUNICATION CABLE THAT RUNS UP THE SIGNAL POLE ON THE NW CORNER TO THE SW CORNER AND INTO THE CABINET WILL BE PRESERVED.
7. THE LOCATION OF THE MICROWAVE DETECTION SHALL BE COORDINATED WITH THE CITY OF TAMPA PRIOR TO INSTALLING.



CONTROLLER TIMINGS			
TIMING FUNCTION			
MOVEMENT NUMBER	EB	EBRAMP	N/S
MINIMUM GREEN	10	10	15
EXTENSION	3.0	5.0	3.0
MAXIMUM GREEN 1	55	25	35
MAXIMUM GREEN 2	55	25	50
YELLOW CLEARANCE	4.4	4.4	3.7
ALL RED	2.6	2.7	2.4
PEDESTRIAN WALK	7		7
PED. CLEARANCE	21		15
RECALL	MAX		MAX

THE CITY OF TAMPA WILL BE DETERMINING THE NEW PHASING AND TIMING PRIOR TO THE CONSTRUCTION OF THIS PROJECT.

MICROWAVE VEHICLE DETECTION ASSIGNMENTS		
MICROWAVE DETECTION	DETECTION ZONE	DELAY TIME (SECS.)
MD 1	D-SB	-
MD 1	D-SBL (A)	-
MD 1	D-SBL (B)	-

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

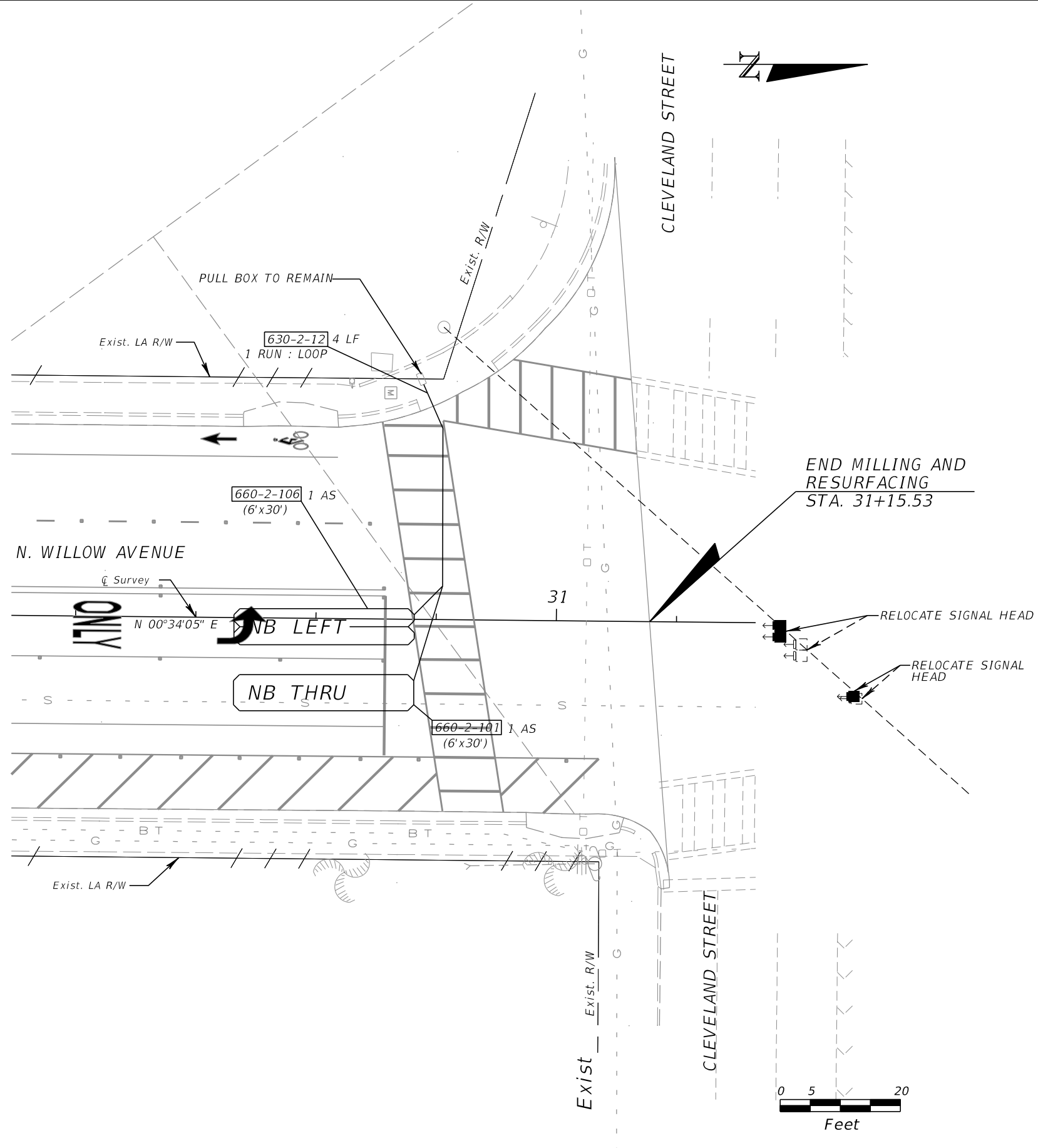
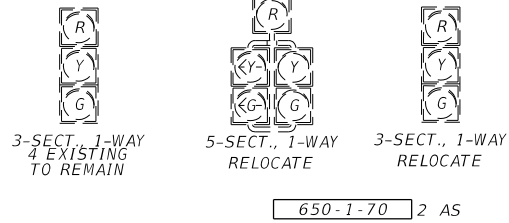
FELICIA A. PANNELL, P.E.
 P.E. LICENSE NUMBER 66348
 SAM SCHWARTZ ENGINEERING
 2709 N. ROCKY POINT DR., SUITE 104
 TAMPA, FL 33607
 CERTIFICATE OF AUTHORIZATION 30268

CITY OF TAMPA TRANSPORTATION DEPARTMENT	
FINANCIAL PROJECT ID	CITY PROJECT ID
432717-1-58-01	1000260

SIGNAL PLAN (1)

SHEET NO.
T-4

SIGNAL HEAD DETAILS:



REVISIONS				FELICIA A. PANNELL, P.E. P.E. LICENSE NUMBER 66348 SAM SCHWARTZ ENGINEERING 2709 N. ROCKY POINT DR., SUITE 104 TAMPA, FL 33607 CERTIFICATE OF AUTHORIZATION 30268	CITY OF TAMPA TRANSPORTATION DEPARTMENT		SIGNAL PLAN (2)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		FINANCIAL PROJECT ID	CITY PROJECT ID		
					432717-1-58-01	1000260		

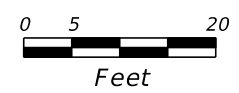
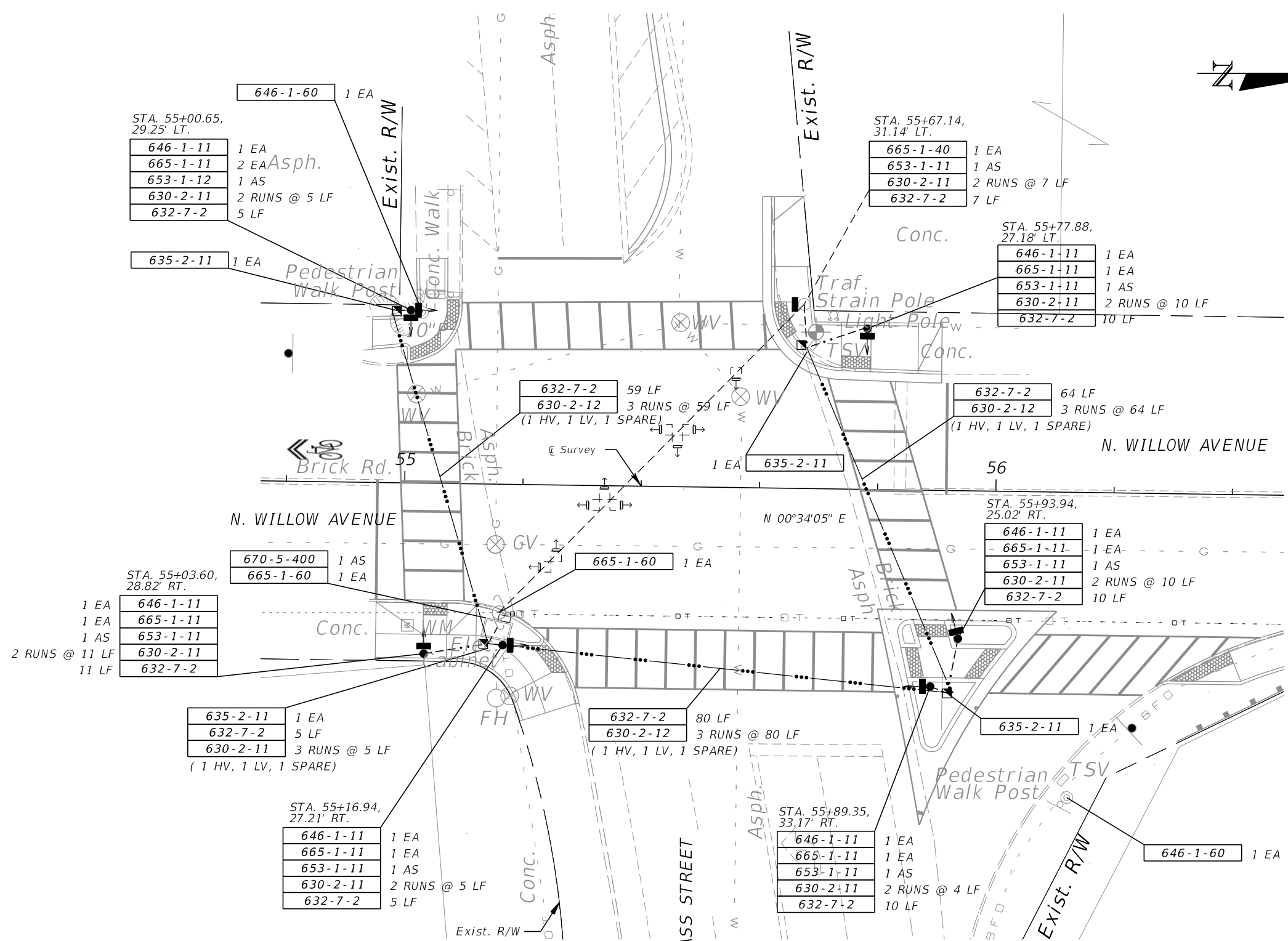


PED. SIGNAL
COUNT-DOWN
1-SECT., 1-WAY



CONTROLLER TIMINGS		
TIMING FUNCTION	E/W	N/S
MINIMUM GREEN	10	10
EXTENSION	3.0	3.0
MAXIMUM GREEN 1	25	25
MAXIMUM GREEN 2	25	25
YELLOW CLEARANCE	4.0	4.0
ALL RED	1.5	2.0
PEDESTRIAN WALK	4	4
PED. CLEARANCE	21	15
RECALL	MAX	

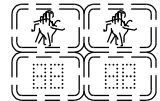
EXISTING CONTROLLING TIMINGS TO REMAIN.
THESE TIMINGS WILL NEED TO BE REVISED
BY THE CITY OF TAMPA PRIOR TO
CONSTRUCTION.



REVISIONS				FELICIA A. PANNEL, P.E. P.E. LICENSE NUMBER 66348 SAM SCHWARTZ ENGINEERING 2709 N. ROCKY POINT DR., SUITE 104 TAMPA, FL 33607 CERTIFICATE OF AUTHORIZATION 30268	CITY OF TAMPA TRANSPORTATION DEPARTMENT		SHEET NO. T-6
DATE	DESCRIPTION	DATE	DESCRIPTION		FINANCIAL PROJECT ID	CITY PROJECT ID	
					432717-1-58-01	1000260	



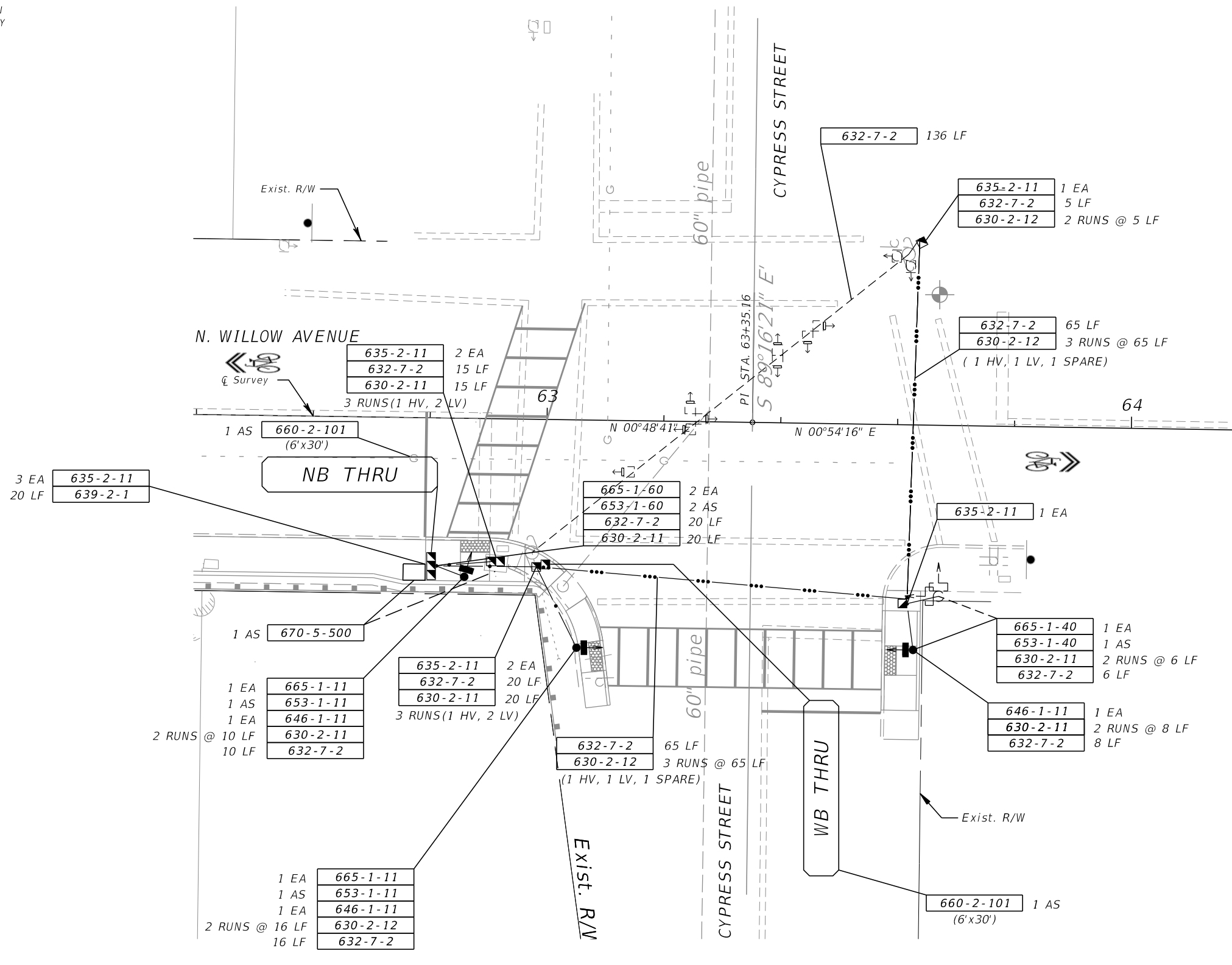
PED. SIGNAL
COUNT-DOWN
1-SECT., 1-WAY
2 EXISTING
TO REMAIN



PED. SIGNAL
COUNT-DOWN
2-SECT., 2-WAY
1 EXISTING
TO REMAIN



PED. SIGNAL
COUNT-DOWN
1-SECT., 1-WAY



REVISIONS		REVISIONS		FELICIA A. PANNELL, P.E. P.E. LICENSE NUMBER 66348 SAM SCHWARTZ ENGINEERING 2709 N. ROCKY POINT DR., SUITE 104 TAMPA, FL 33607 CERTIFICATE OF AUTHORIZATION 30268	CITY OF TAMPA TRANSPORTATION DEPARTMENT		SIGNAL PLAN (4)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		FINANCIAL PROJECT ID	CITY PROJECT ID		
						432717-1-58-01		1000260