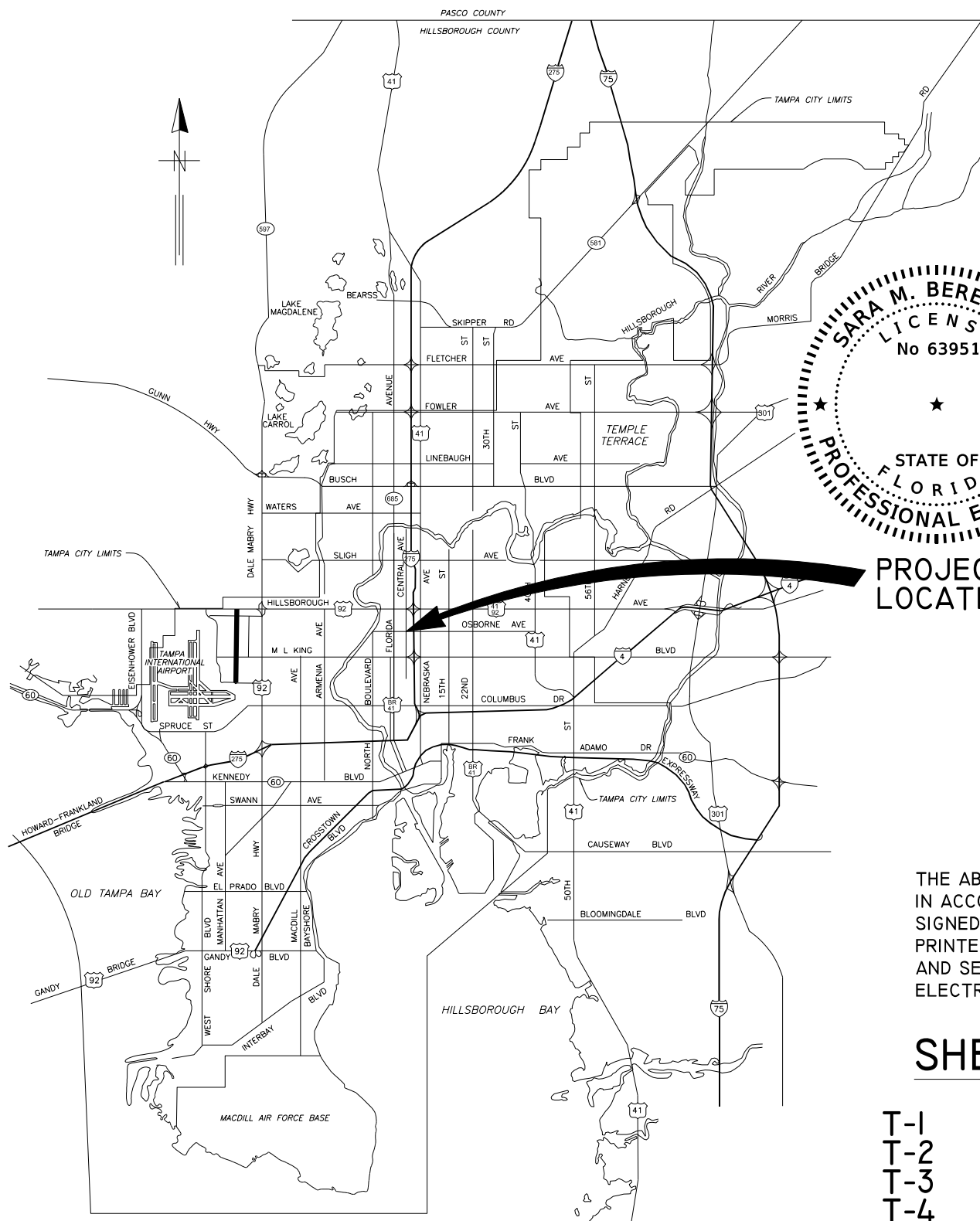
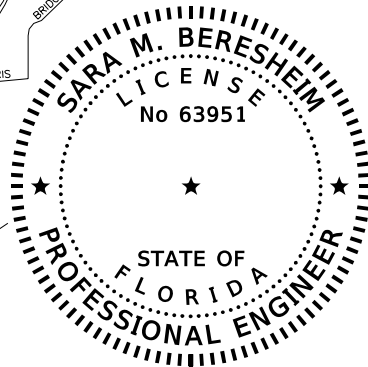


LOCATION MAP



THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE FLORIDA DEPT. OF TRANSPORTATION, ROADWAY AND TRAFFIC DESIGN STANDARDS (DATED JULY 2016), THE FLORIDA DEPT. OF TRANSPORTATION, STANDARD SPECIFICATIONS (DATED JAN. 2016) AND SUPPLEMENTS THERETO, AND THE LATEST HILLSBOROUGH COUNTY, STANDARD SPECIFICATIONS.



PROJECT
LOCATION

JOHNSON, MIRMIRAN & THOMPSON, INC.
2000 EAST 11th AVENUE, SUITE 300
TAMPA, FL 33605-3830
CERTIFICATE OF AUTHORIZATION: 5917
SARA M. BERESHEIM, P.E. NO. 63951

CITY of TAMPA



PLANNING AND DEVELOPMENT DEPARTMENT CENTRAL AVENUE AT OSBORNE AVENUE SIGNALIZATION PLANS

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SHEET INDEX

T-1	COVER SHEET
T-2	TABULATION OF QUANTITIES
T-3	SIGNALIZATION GENERAL NOTES
T-4	ROADWAY PLAN
T-5	SIGNALIZATION PLAN
T-6	SIGNING AND PAVEMENT MARKING PLAN
T-7	GUIDE SIGN WORK SHEET
T-8	MAST ARM TABULATION
T-9	TABLE OF VARIABLES FOR STANDARD MAST ARM ASSEMBLIES
T-10*	REPORT OF CORE BORINGS

* THIS SHEET IS INCLUDED IN THE INDEX OF SIGNALIZATION PLANS ONLY TO INDICATE THAT IT IS PART OF THE SIGNALIZATION PLANS. THIS SHEET IS CONTAINED IN A SEPARATE DIGITALLY SIGNED AND SEALED DOCUMENT.



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SARA M. BERESHEIM, P.E. 63951

The Enclosed Document Is Provided For Your Convenience.

Please Email ALL Questions:
[MailTo:ContractAdministration@TampaGov.net](mailto:ContractAdministration@TampaGov.net)

City of Tampa
Contract Administration Department
306 E. Jackson St. #280A4N
Tampa, FL 33602
(813)274-8456

1/15/2020

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TABULATION OF QUANTITIES																					
PAY ITEM NO.	DESCRIPTION	UNIT																TOTAL THIS SHEET		GRAND TOTAL	
																	PLAN	FINAL	PLAN	FINAL	
			PLAN	FINAL																	
0101-1	MOBILIZATION	LS	1														1		1		
0102-1	MAINTENANCE OF TRAFFIC	LS	1																1		
0110-1-1	CLEARING & GRUBBING	LS/AC	1/0.02														1/0.02		1/0.02		
0110-4-10	REMOVAL OF EXISTING CONCRETE	SY	97														97		97		
0162-1-11	PREPARED SOIL LAYER	SY	14														14.0		14		
0520-2-4	CURB TYPE D	LF	87														87		87		
0522-2	CONCRETE SIDEWALK 6" THICK	SY	99														99		99		
0527-2	DETECTABLE WARNING	SF	76														76		76		
0570-1-2	PERFORMANCE TURF, SOD	SY	119														119		119		
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	235														235		235		
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	147														147		147		
632-7-1	SIGNAL CABLE-NEW OR RECONSTRUCTED INTERSECTION, F & I	PI	1														1		1		
635-2-11	PULL & SPLICE BOX, F & I, 13" X 24" COVER SIZE	EA	13														13		13		
639-1-122	ELECTRICAL POWER SERVICE, F & I, UNDERGROUND, METER, PURCHASED BY CONTRACTOR	AS	1														1		1		
639-1-610	ELECTRICAL POWER SERVICE, REMOVE, OVERHEAD	AS	1														1		1		
639-2-1	ELECTRICAL SERVICE WIRE	LF	94														94		94		
641-2-12	PRESTRESSED CONCRETE POLE, F & I, TYPE P-II SERVICE POLE	EA	1														1		1		
643-600	WOOD STRAIN POLES, REMOVE	EA	3														3		3		
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	EA	4														4		4		
649-21-9	STEEL MAST ARM ASSEMBLY, F & I, DOUBLE ARM, 50'-50'	EA	1														1		1		
649-21-12	STEEL MAST ARM ASSEMBLY, F & I, DOUBLE ARM, 60'-40'	EA	1														1		1		
650-1-14	TRAFFIC SIGNAL, F & I, ALUMINUM, 3 SECTION, 1 WAY	AS	12														12		12		
653-1-11	PEDESTRIAN SIGNAL, F & I, LED COUNTDOWN, 1 WAY	AS	8														8		8		
660-4-11	VEHICLE DETECTION SYSTEM-VIDEO, F & I, CABINET EQUIPMENT	EA	1														1		1		
660-4-12	VEHICLE DETECTION SYSTEM-VIDEO, F & I, ABOVE GROUND EQUIPMENT	EA	1														1		1		
665-1-11	PEDESTRIAN DETECTOR, F & I, STANDARD	EA	8														8		8		
670-5-110	TRAFFIC CONTROLLER ASSEMBLY, F & I, NEMA, NONE	AS	1														1		1		
670-5-600	TRAFFIC CONTROLLER ASSEMBLY, REMOVE CONTROLLER WITH CABINET	AS	1														1		1		
700-1-50	SINGLE POST SIGN, RELOCATE	AS	2														2		2		
700-5-22	INTERNALLY ILLUMINATED SIGN, F & I, OVERHEAD MOUNT, 12 - 18 SF	EA	4														4		4		
0102-1	MAINTENANCE OF TRAFFIC	LS	1														1		1		
0327-70-1	MILLING EXISTING ASPH PAVT, 1" AVG. DEPTH	SY	652														652		652		
0337-7-81	ASPHALTIC CONCRETE FRICTION COURSE, FC-9.5	TN	35.9														36		36		
710-90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	LS	1														1		1		
*	PAINT, STANDARD, WHITE, SOLID, 6"																				
*	PAINT, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK																				
*	PAINT, STANDARD, WHITE, SOLID, 24"																				
*	PAINT, STANDARD, YELLOW, SOLID, 6"																				
711-11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK	LF	342														342		342		
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24"	LF	101														101		101		
711-14-125	THERMOPLASTIC, PREFORMED, WHITE, SOLID 24"	LF	290														290		290		
711-16-101	THERMOPLASTIC, STANDARD - OTHER SURFACES, WHITE, SOLID 6"	GM	0.002														0.002		0.002		
711-16-201	THERMOPLASTIC, STANDARD - OTHER SURFACES, YELLOW, SOLID 6"	GM	0.004														0.004		0.004		
* THESE QUANTITIES ARE PAID FOR UNDER PAINTED PAVEMENT MARKINGS (FINAL SURFACE), LUMP SUM - ITEM NO. 710-90. THE QUANTITIES ARE SHOWN FOR ONE APPLICATION; SEE FDOT SPECIFICATION 710 FOR THE NUMBER OF APPLICATIONS REQUIRED.																					
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CONSTRUCTION PHASING

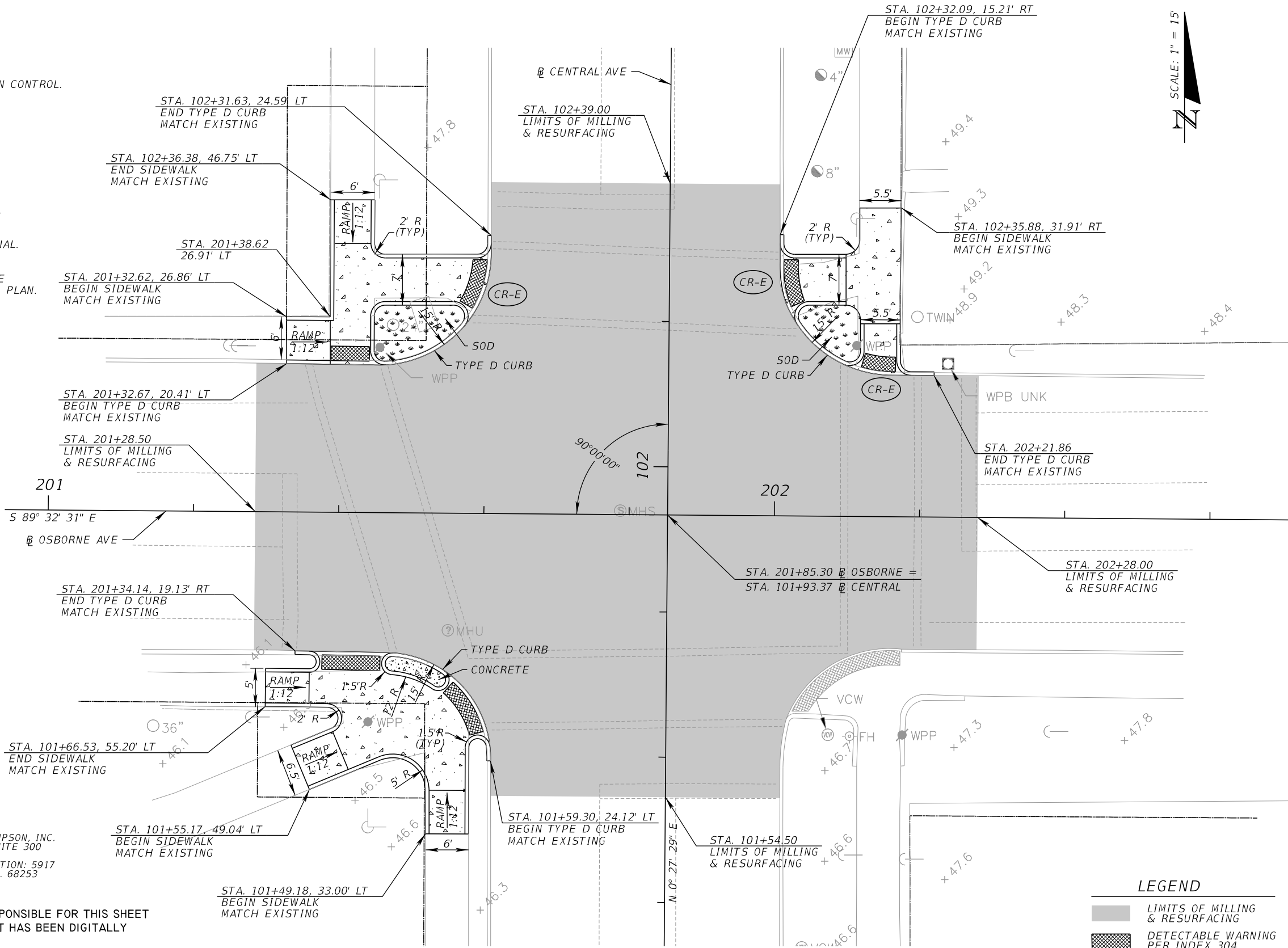
PHASE I
CONSTRUCT CURB, SIDEWALK, AND SIGNALS ON THE SOUTHWEST CORNER. UTILIZE INDEX 600, 601, 602, 603, 604, 605, AND 660 FOR PEDESTRIAN CONTROL. MAINTAIN EXISTING TRAFFIC SIGNALS AND EQUIPMENT.

PHASE II
CONSTRUCT SIGNALS ON THE SOUTHEAST CORNER. UTILIZE INDEX 600, 601, 602, AND 660 FOR PEDESTRIAN CONTROL. MAINTAIN EXISTING TRAFFIC SIGNALS AND EQUIPMENT.

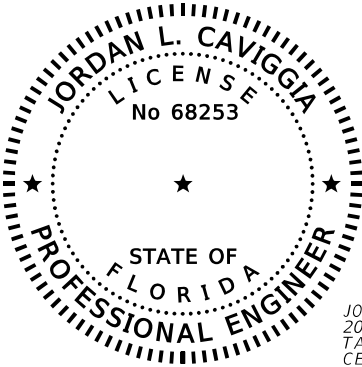
PHASE III
CONSTRUCT CURB, SIDEWALK, AND SIGNALS ON THE NORTHEAST CORNER. UTILIZE INDEX 600, 601, 602, 603, 604, 605, AND 660 FOR PEDESTRIAN CONTROL. MAINTAIN EXISTING TRAFFIC SIGNALS AND EQUIPMENT.

PHASE IV
CONSTRUCT CURB, SIDEWALK, AND SIGNALS ON THE NORTHWEST CORNER. UTILIZE INDEX 600, 601, 602, 603, 604, 605, AND 660 FOR PEDESTRIAN CONTROL. REMOVE EXISTING TRAFFIC SIGNALS AND EQUIPMENT WHEN THE NEW SIGNALS ARE COMPLETE AND OPERATIONAL.

PHASE V
MILL AND RESURFACE THE ENTIRE INTERSECTION. PLACE FINAL SURFACE PAINTED PAVEMENT MARKINGS PER THE PLAN. UTILIZE INDEX 600 AND 607.



SCALE: 1" = 15'



JOHNSON, MIRMIRAN & THOMPSON, INC.
2000 EAST 11th AVENUE, SUITE 300
TAMPA, FL 33605-3830
CERTIFICATE OF AUTHORIZATION: 5917
JORDAN L. CAVIGGIA, P.E. NO. 68253

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FBPE CERTIFICATE OF AUTHORIZATION NO. 5917
JORDAN L. CAVIGGIA, P.E. 68253

Drawn:	CLW	Date:	9/16
Designed:	JLC	Date:	9/16
Checked:	DJS	Date:	9/16
Reviewed:	KDB	Date:	9/16
Approved:	JLC	Date:	9/16
Approved:	Date:	No:	Date:

By:	
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Revision:

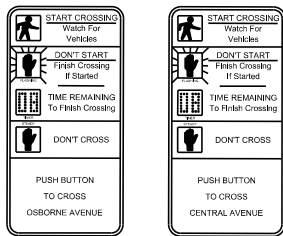
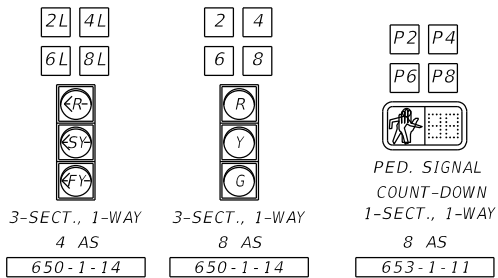


CITY OF TAMPA
PLANNING & DEVELOPMENT
DEPARTMENT

CENTRAL AVENUE at OSBORNE AVENUE
ROADWAY PLAN

Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No.	T-4
Scale:	
SHEET	

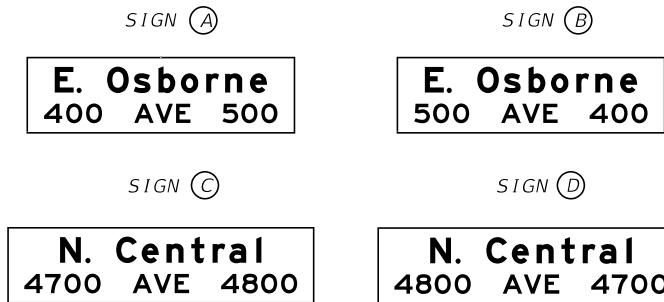
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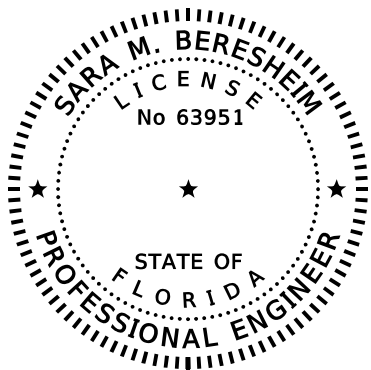
FTP-68B-06 8 EA

NOTES:

1. MAJOR STREET IS CENTRAL AVENUE, PHASE 1 (MOVEMENTS 2 AND 6); MINOR STREET IS OSBORNE AVENUE, PHASE 2 (MOVEMENTS 4 AND 8).
2. CONTROLLER AND CABINET WIRING SHALL BE COMPATIBLE WITH SOP 10. INITIAL SOP SHALL BE SOP 1.
3. POWER SERVICE METER BASE AND DISCONNECT SHALL BE INSTALLED ON THE CONCRETE SERVICE POLE AS SHOWN ON THE PLANS AS PER INDEX NUMBER 17736.
4. POSTED SPEED LIMIT IS 30 MPH ON OSBORNE AVENUE AND 30 MPH ON CENTRAL AVENUE.
5. RUN EXISTING FIBER OPTIC CABLE FOR CITY OF TAMPA COMMUNICATIONS FROM EXISTING FIBER OPTIC PULL BOX TO NEW CONTROLLER CABINET INSIDE NEW CONDUIT.



700-5-22 4 EA



JOHNSON, MIRMIRAN & THOMPSON, INC.
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TAMPA, FL 33605-3830
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VIDEO DETECTION CHART	
VIDEO DETECTOR	DETECTOR ZONE
V-1	DZ2 & DZ2L
	DZ4 & DZ4L
	DZ6 & DZ6L
	DZ8 & DZ8L

2 RUNS
14 LF 630-2-11
2 EA 635-2-11
1 EA 646-1-11
2 EA 665-1-11

EL 47.6
POLE LOCATION=
STA. 201+50.18, 43.77' LT.

EL 47.8
POLE LOCATION=
STA. 202+23.48, 34.60' RT.

10 LF 630-2-11
1 EA 635-2-11
1 AS 639-1-122
94 LF 639-2-1
1 EA 641-2-12

8 RUNS
40 LF 630-2-11
1 PI 632-7-1
2 EA 635-2-11
1 EA 660-4-11
1 AS 670-5-110

2 RUNS
11 LF 630-2-11
1 EA 649-21-9

2 RUNS
24 LF 630-2-11
1 EA 646-1-11
2 EA 665-1-11

1 AS 670-5-600

2 RUNS
40 LF 630-2-11
2 EA 635-2-11

639-1-610 1 AS
643-600 1 EA

201
9' 32' 31" DZ8L
DZ8

47 LF 630-2-12
4 RUNS (1 HV, 1 LV,
1 HV SPARE, 1 LV
SPARE)

2 RUNS
40 LF 630-2-11
2 EA 635-2-11

630-2-11 27 LF
EXISTING FIBER OPTIC
PULL BOX SEE NOTE 5

660-4-12 1 EA
1 EA 635-2-11

102
MHS

201
9' 32' 31" DZ8L
DZ8

47 LF 630-2-12
4 RUNS (1 HV, 1 LV,
1 HV SPARE, 1 LV
SPARE)

1 EA 643-600

2 RUNS
14 LF 630-2-11
2 EA 635-2-11
1 EA 646-1-11
2 EA 665-1-11

5 RUNS (2 HV, 1 LV,
1 HV SPARE, 1 LV
SPARE)
630-2-12 50 LF

635-2-11 3 EA
630-2-11 24 LF

630-2-11 15 LF 2 RUNS
646-1-11 1 EA
665-1-11 2 EA

PROPOSED POWER SOURCE LOCATION

OTWIN

630-2-11 27 LF
EXISTING FIBER OPTIC
PULL BOX SEE NOTE 5

660-4-12 1 EA
1 EA 635-2-11

102
MHS

201
9' 32' 31" DZ8L
DZ8

47 LF 630-2-12
4 RUNS (1 HV, 1 LV,
1 HV SPARE, 1 LV
SPARE)

1 EA 643-600

2 RUNS
14 LF 630-2-11
2 EA 635-2-11
1 EA 646-1-11
2 EA 665-1-11

2 RUNS
15 LF 630-2-11
2 EA 635-2-11
1 EA 649-21-12

2 RUNS
15 LF 630-2-11
1 EA 646-1-11
2 EA 665-1-11

2 RUNS
15 LF 630-2-11
1 EA 646-1-11
2 EA 665-1-11

630-2-12 50 LF

4 RUNS (1 HV, 1 LV,
1 HV SPARE, 1 LV
SPARE)

630-2-12 50 LF

4 RUNS (1 HV, 1 LV,
1 HV SPARE, 1 LV
SPARE)

635-2-11 3 EA
630-2-11 24 LF

630-2-11 15 LF 2 RUNS
646-1-11 1 EA
665-1-11 2 EA

PROPOSED POWER SOURCE LOCATION

OTWIN

630-2-11 27 LF
EXISTING FIBER OPTIC
PULL BOX SEE NOTE 5

660-4-12 1 EA
1 EA 635-2-11

102
MHS

201
9' 32' 31" DZ8L
DZ8

47 LF 630-2-12
4 RUNS (1 HV, 1 LV,
1 HV SPARE, 1 LV
SPARE)

1 EA 643-600

2 RUNS
15 LF 630-2-11
2 EA 635-2-11
1 EA 649-21-12

2 RUNS
15 LF 630-2-11
1 EA 646-1-11
2 EA 665-1-11

2 RUNS
15 LF 630-2-11
2 EA 635-2-11
1 EA 649-21-12

2 RUNS
15 LF 630-2-11
1 EA 646-1-11
2 EA 665-1-11

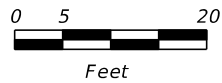
2 RUNS
15 LF 630-2-11
1 EA 646-1-11
2 EA 665-1-11

630-2-12 50 LF

4 RUNS (1 HV, 1 LV,
1 HV SPARE, 1 LV
SPARE)

630-2-12 50 LF

4 RUNS (1 HV, 1 LV,
1 HV SPARE, 1 LV
SPARE)



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PHONE: (813) 314-0314 FAX: (813) 314-0345
FBPE CERTIFICATE OF AUTHORIZATION NO. 5917
SARA M. BERESHEIM, P.E. 63951

Drawn: RMR Date: 9/16
Designed: RMR Date: 9/16
Checked: SMB Date: 9/16
Reviewed: SCQ Date: 9/16
Approved: SMB Date: 9/16
Approved: Date:

No: Date:

Revision:

By:

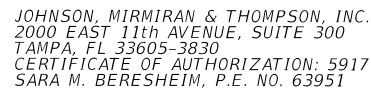
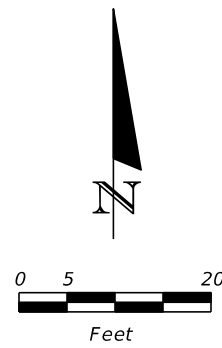


CITY OF TAMPA
PLANNING & DEVELOPMENT
DEPARTMENT

CENTRAL AVENUE at OSBORNE AVENUE
SIGNALIZATION PLAN

Field Book:
Atlas Sheet:
File No. Index No.
Job No.
Scale: T-5
SHEET

1. SIGN LOCATIONS ARE APPROXIMATE AND MAY REQUIRE FIELD ADJUSTMENT AS DIRECTED BY THE ENGINEER.

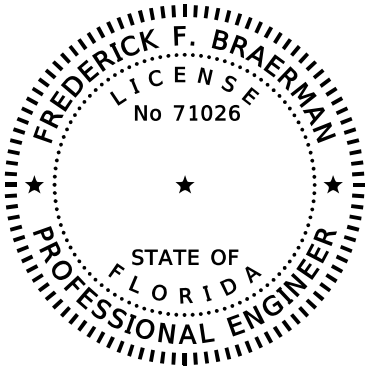


City of
Tampa
Florida

CENTRAL AVENUE at OSBORNE AVENUE
SIGNING AND
PAVEMENT MARKING PLAN

Field Book:	
Atlas Sheet:	
File No.	Index No. T-6
Job No.	
Scale:	
SHEET	

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JOHNSON, MIRMIRAN & THOMPSON, INC.
2000 EAST 11th AVENUE, SUITE 300
TAMPA, FL 33605-3830
CERTIFICATE OF AUTHORIZATION: 5917
FREDERICK F. BRAERMAN, P.E. NO. 71026

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THIS SHEET
IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C. THIS SHEET HAS BEEN DIGITALLY
SIGNED AND SEALED USING A DIGITAL SIGNATURE.
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ELECTRONIC COPIES.

STANDARD MAST ARM ASSEMBLIES DATA TABLE										Table Date 11-01-16	
STRUCTURE ID NUMBERS	DESIGNATION	FIRST ARM		SECOND ARM		UF (deg)	LL (deg)	POLE			DRILLED SHAFT ID
		ARM ID	FAA (ft.)	ARM ID	SAA (ft.)			POLE ID	UAA (ft.)	UB (ft.)	
1 - 1	A50/D-A50/D-P3/D-DS/18/5.0	A50/D	27.5	A50/D	27.5	90	---	P3/D	24.5	21.5	DS/18/5.0
1 - 2	A60/D-A40/D-P4/D-DS/16/5.0	A60/D		A40/D	36.0	270	---	P4/D	23.5	20.5	DS/16/5.0

NOTES [Notes Date 11-01-16]:

- If an entry appears in column FAA, a shorter arm is required. This is obtained by removing length from the arm tip and the arm length shortened from FA to FAA. SAA Similar.
- If an entry appears in column UAA, a shorter pole is required. This is obtained by removing length from the pole tip and the pole height shortened from UA to UAA.
- Arm mounting height UB must be between 18-22 feet.
- Pole types P2 and larger require a minimum 4.5 foot diameter drilled shaft. Pole types P5 and larger require a minimum 5.0 foot diameter drilled shaft.
- Work this sheet with the Signal Designer's "Mast Arm Tabulation". See "Mast Arm Tabulation" for special instructions that include non-standard Handhole location, paint color, terminal compartment requirement, and pedestrian features.
- Work with Index 649-030 and 649-031.
- Design Wind Speed = 150 mph

FOUNDATION NOTES [Notes Date 01-01-12]:

- Design based on Borings taken sealed by Martin E Millburg, PE.
- Assumptions and Values used in design:

Mast Arm 1-1:
Soil Type: Sand (Cohesionless)
Soil Layer Thickness = 20 ft.
Soil Friction Angle = 30 deg.
Soil Weight = 56 pcf
SPT N-VALUE = 7 blows/ft.
Design Water Table is 0 ft. below surface.

Mast Arm 1-2:
Soil Type: Sand (Cohesionless)
Soil Layer Thickness = 25 ft.
Soil Friction Angle = 31 deg.
Soil Weight = 57 pcf
SPT N-VALUE = 10 blows/ft.
Design Water Table is 0 ft. below surface.



Drawn:	PJM	Date: 11/18	△						
Designed:	PJM	Date: 11/18	△						
Checked:	SPA	Date: 11/18	△						
Reviewed:	SPA	Date: 11/18	△						
Approved:	FFB	Date: 11/18	△						
Approved:		Date:	No:	Date:	Revision:		By:		



CITY OF TAMPA
PLANNING & DEVELOPMENT
DEPARTMENT

CENTRAL AVENUE at OSBORNE AVENUE
TABLE OF VARIABLES FOR STANDARD
MAST ARM ASSEMBLIES

Field Book:	
Atlas Sheet:	
File No.	Index No.
Job No.	T-9
Scale:	
SHEET	

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