

**CITY OF NAPLES
PURCHASING DIVISION
CITY HALL, 735 8TH STREET SOUTH
NAPLES, FLORIDA 34102
PH: 239-213-7100 FX: 239-213-7105**

ADDENDUM NUMBER 3

NOTIFICATION DATE:	BID TITLE:	BID NUMBER:	BID OPENING DATE & TIME:
01/15/16	Central Avenue Improvements - Construction	16-012	NEW 01/20/2016 2:00PM

**THE FOLLOWING INFORMATION IS HEREBY INCORPORATED INTO,
AND MADE AN OFFICIAL PART OF THE ABOVE REFERENCED BID.**

The following clarifications are issued as an addendum identifying the following for the referenced solicitation:

Written request for "As Equal" approval: Lighting Product Manufactured by Sternberg Lighting.

Answer: No. In review of the technical specification for Sternberg, there are differences in appearance, specifications, and how the luminaire is lit that requires us to determine that Sternberg is not an equivalent product in terms of maintenance, repair and aesthetics.

Submitted written question:

- 1) Detectors for Loops Table indicates new detectors but no new Pay-Item exist for same; how will the NEW detectors be paid for.

Answer- Plan sheet T-2, T-3 and sheet 2 have been revised to reflect the appropriate number of detectors including the addition of a new pay. Plans have been clouded to reflect the modified information.

- 2) Is the report, as mentioned on sheet T-5, part of the bid package?

Answer – Refer to attached Exhibit A

- 3) How will the contractor be compensated, if they are required to drill additional depth (beyond 16.5'), to ensure the 3' embedment into limestone layer, for Pole B?

Answer- The contractor will need to include the cost of limestone excavation to allow for the appropriate embedment within the cost of the mastarm payitem.

- 4) Dave Rivera reviewed the Signal plans and noted that the plans call for 1EA of the Central/Riverside sign and Goodlette sign where 2 will be necessary (with arrows reversed on Central/Riverside sign). Also, the pedestrian push buttons will need to be 10' apart but the plans appear to show them next to each other. He also had a phasing comment that I think we can address down the road.

IMPORTANT MESSAGE

PLEASE ACKNOWLEDGE RECEIPT OF THIS ADDENDUM ON THE BID COVER SHEET.

Answer-

1) Additional signs are not necessary since the western signal poles are not being modified as a part of this project. The new signs are for the signal poles located to the east and only require one sign for each direction therefore 2 signs.

2) Pedestrian signal poles and conduit quantities have been modified to reflect the necessary 10ft. separation. Plan sheets have been revised to address additional quantities and other revisions as necessary.

3) It is likely during construction the City will modify the signal timing for the intersection.

5) Are the Mast Arms Painted or Galvanized; see Pay-Items 649-31-102/108?

Answer - The mast arms will be painted black consistent with City standards and the cost included in the payitem bid price. Plan sheet T-4 has been revised to reflect the black paint requirement.

6) The quantities on the bid sheet don't match up to the summary of quantities tabulation for structures S-101, S-108, S-111, S-306, S-307, S-308, S-309, S-312 AND S-409

Answer- We did find a slight error in our spreadsheet and these structures were inadvertently left off the summary of drainage structures, bid tab and OPC. Plan sheets 2, 2A, 9, 10, & 11 have been modified and clouded to address the additional quantities and pay items addressing this question.

7) There is not a bid item or an item in the summary of quantities for S-500

Answer- The structure is listed per station and is not grouped with the S 500 series structures, the bid item was already included in the plans.

Addendum 3 - Exhibit A - Report of Geotechnical Exploration

Addendum 3 - Exhibit B – REVISED Central Bid Form (FINAL)

Addendum 3 - Exhibit C – REVISED PLAN SHEETS, 2, 2A, 9, 10, 11, T-2, T-3 & T-4

Addendum 3 - Exhibit D - REVISED Opinion of Probable Construction Cost

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IMPORTANT MESSAGE

PLEASE ACKNOWLEDGE RECEIPT OF THIS ADDENDUM ON THE BID COVER SHEET.

GFA INTERNATIONAL

FLORIDA'S LEADING ENGINEERING SOURCE

Report of Geotechnical Exploration

**Mast Arm Signalization
Intersection of Riverside Circle and Goodlette Frank Road
Naples, Collier County, Florida**

**January 4, 2016
GFA Project No.: 15-2531
For: Kimley-Horn**





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January 4, 2016

Mr. Mike Donahue
Kimley - Horn
1777 Main Street, Suite 200,
Sarasota, FL 34236
(941) 379 7602
Mike.Donahue@Kimley-Horn.com

**Site: Mast Arm Signalization
Intersection of Riverside Circle and Goodlette Frank Road
Naples, Collier County, Florida
GFA Project No. 15-2531**

Dear Mr. Donahue:

GFA International, Inc. (GFA) has completed the subsurface exploration and geotechnical engineering evaluation for the above-referenced project in accordance with the geotechnical and engineering service agreement for this project. The scope of services was completed in accordance with our Geotechnical Engineering Proposal (15-2531), planned in conjunction with and authorized by you.

EXECUTIVE SUMMARY

The purpose of our subsurface exploration was to classify the nature of the subsurface soils and general geomorphic conditions and evaluate their impact upon the proposed signalization installation. This report contains the results of our subsurface exploration at the site and our engineering interpretations of these, with respect to the project characteristics described to us.

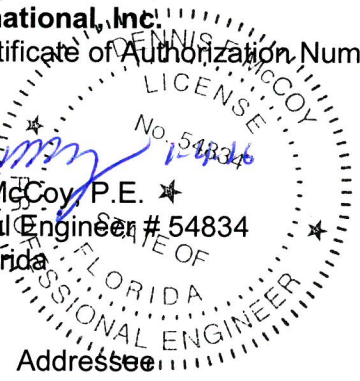
It is our understanding the project will consist of the installation of new mast arm signalization at the intersection of Riverside Circle/Central Avenue and Goodlette Frank Road located in Naples, Florida. An aerial photograph of the project area was provided by you. The recommendations provided herein are based upon the above considerations. If the project description has been revised, please inform GFA International so that we may review our recommendations with respect to any modifications.

A total of two (2) standard penetration test (SPT) borings to depths of approximately 25 feet below ground surface (BGS) were completed for this study.

The subsurface soil conditions encountered at this site generally consists of very loose to medium dense sand (SP), silty sand (SM), and hard limestone (LS), to the boring termination depths. A layer of hard limestone was encountered at a depths of approximately 12 to 13.5 feet BGS in the borings. Please refer to Appendix D - Record of Test Borings for a detailed account of each boring.

We appreciate the opportunity to be of service to you on this project and look forward to a continued association. Please do not hesitate to contact us if you have any questions or comments, or if we may further assist you as your plans proceed.

Respectfully Submitted,
GFA International, Inc.
Florida Certificate of Authorization Number 4930



Dennis F. McCoy
Dennis F. McCoy, P.E. ★
Professional Engineer # 54834
State of Florida



Paul J. D'huyvetter
Paul J. D'huyvetter, P.E.
Professional Engineer # 59716
State of Florida

Copies: 1, Addressee



TABLE OF CONTENTS

1.0 INTRODUCTION.....	4
1.1 Scope of Services	4
1.2 Project Description	4
2.0 OBSERVATIONS.....	4
2.1 Site Inspection.....	4
2.2 Field Exploration	5
2.3 Laboratory Analysis.....	5
2.4 Geomorphic Conditions.....	5
2.5 Hydrogeological Conditions.....	6
3.0 ENGINEERING EVALUATION AND RECOMMENDATIONS.....	6
3.1 General	6
3.2 Mast Arm Foundation Recommendations.....	6
4.0 REPORT LIMITATIONS.....	7
5.0 BASIS FOR RECOMMENDATIONS	8
Appendix A - Vicinity Map	
Appendix B - Test Location Plan	
Appendix C - Notes Related to Borings	
Appendix D - Report of Test Borings	
Appendix E - Discussion of Soil Groups	



1.0 INTRODUCTION

1.1 Scope of Services

The objective of our geotechnical services was to collect subsurface data for the subject project, summarize the test results, and discuss any apparent site conditions that may have geotechnical significance for building construction. The following scope of service is provided within this report:

1. Prepare records of the soil boring logs depicting the subsurface soil conditions encountered during our field exploration.
2. Conduct a review of each soil sample obtained during our field exploration for classification and additional testing if necessary.
3. Analyze the existing soil conditions found during our exploration with respect to foundation support for the proposed structure.
4. Provide recommendations with respect to foundation support of the structure, including allowable soil-bearing capacity, bearing elevations, and foundation design parameters.
5. Provide criteria and site preparation procedures to prepare the site for the proposed construction.

1.2 Project Description

It is our understanding the project will consist of the installation of new mast arm signalization at the intersection of Riverside Circle and Goodlette Frank Road located in Naples, Florida. An aerial photograph of the project area was provided by you. The recommendations provided herein are based upon the above considerations. If the project description has been revised, please inform GFA International so that we may review our recommendations with respect to any modifications.

2.0 OBSERVATIONS

2.1 Site Inspection

The recovered samples were not examined, either visually or analytically, for chemical composition or environmental hazards. GFA would be pleased to perform these services for an additional fee, if required.



2.2 Field Exploration

A total of two (2) standard penetration test (SPT) borings to depths of approximately 25 feet below ground surface (BGS) were completed for this study. The locations of the borings performed are illustrated in Appendix B: "Test Location Plan". The Standard Penetration Test (SPT) boring method was used as the investigative tool within the borings. SPT tests were performed in substantial accordance with ASTM Procedure D-1586, "Penetration Test and Split-Barrel Sampling of Soils". This test procedure consists of driving a 1.4-inch I.D. split-tube sampler into the soil profile using a 140-pound hammer falling 30 inches. The number of blows per foot, for the second and third 6-inch increment, is an indication of soil strength.

The soil samples recovered from the soil borings were visually classified and their stratification is illustrated in Appendix D: "Record of Test Borings". It should be noted that soil conditions might vary between the strata interfaces, which are shown. The soil boring data reflect information from a specific test location only. Site specific survey staking for the test locations was not provided for our field exploration. The indicated depth and location of each test was approximated based upon existing grade and estimated distances and relationships to obvious landmarks. The boring depths were selected based on our knowledge of vicinity soils and to include the zone of soil likely to be stressed by the proposed construction.

2.3 Laboratory Analysis

Soil samples recovered from our field exploration were returned to our laboratory where they were visually examined in general accordance with ASTM D-2488. Samples were evaluated to obtain an accurate understanding of the soil properties and site geomorphic conditions. After a thorough visual examination of the recovered site soils, no laboratory testing was deemed necessary. Bag samples of the soil encountered during our field exploration will be held in our laboratory for your inspection for 30 days and then discarded unless we are notified otherwise in writing.

2.4 Geomorphic Conditions

Boring logs derived from our field exploration are presented in Appendix D: "Record of Test Borings". The boring logs depict the observed soils in graphic detail. The Standard Penetration Test borings indicate the penetration resistance, or N-values, logged during the drilling and sampling activities. The classifications and descriptions shown on the logs are generally based upon visual characterizations of the recovered soil samples. All soil samples reviewed have been depicted and classified in general accordance with the Unified Soil Classification System, modified as necessary to describe typical southwest Florida conditions. See Appendix E: "Discussion of Soil Groups", for a detailed description of various soil groups.

The subsurface soil conditions encountered at this site generally consists of very loose to medium dense sand (SP), silty sand (SM), and hard limestone (LS), to the boring termination depths. A layer of hard limestone was encountered at a depths of approximately 12 to 13.5 feet BGS in the borings. Please refer to Appendix D - Record of Test Borings for a detailed account of each boring.



2.5 Hydrogeological Conditions

On the dates of our field exploration, the groundwater table was encountered at depths approximately 4 feet below the existing ground surface. The groundwater table will fluctuate seasonally depending upon local rainfall and other site specific and/or local influences such as tidal events. Brief ponding of stormwater may occur across the site after heavy rains.

No additional investigation was included in our scope of work in relation to the wet seasonal high groundwater table or any existing well fields in the vicinity. Well fields may influence water table levels and cause significant fluctuations. If a more comprehensive water table analysis is necessary, please contact our office for additional guidance.

3.0 ENGINEERING EVALUATION AND RECOMMENDATIONS

3.1 General

A foundation system for any structure must be designed to resist bearing capacity failures, have settlements that are tolerable, and resist the environmental forces that the foundation may be subjected to over the life of the structure. The soil bearing capacity is the soil's ability to support loads without plunging into the soil profile. Bearing capacity failures are analogous to shear failures in structural design and are usually sudden and catastrophic.

The amount of settlement that a structure may tolerate is dependent on several factors including: uniformity of settlement, time rate of settlement, structural dimensions and properties of the materials. Generally, total or uniform settlement does not damage a structure but may affect drainage and utility connections. These can generally tolerate movements of several inches for building construction. In contrast, differential settlement affects a structure's frame and is limited by the structural flexibility.

The geotechnical evaluations for the tested site are based on the subsurface soil and groundwater conditions encountered during this study, the project information made available, our site observations, laboratory test results, and our experience in the vicinity. The test data had been evaluated using established correlations between geotechnical parameters of the soils similar with those recorded at this site, laboratory test results, and the observed performance of similar soil types.

3.2 Mast Arm Foundation Recommendations

We understand, the proposed intersection improvement includes design and construction of mast arm structures founded on a caisson or drilled shaft foundation. Typically, these structures are subject to large wind load, and this load generally controls foundation design. Based on our understanding of the structural load and subsurface conditions encountered in our borings, it is GFA's opinion that drilled shaft type foundations are suitable for support of the proposed mast arm/pole assemblies. Size, depth and installation requirements for the drilled shaft anchors should be based on the soil parameters presented in Appendix D (Report of Test Borings) and the developed design loads.



The soil design parameters presented in this report have been estimated based upon the results of the SPT tests, visual classification of the samples obtained and our past experience with similar soils. Drilled shaft design and installation requirements are to be specified by others. Shallow groundwater and granular soil conditions will require the use of temporary casing for successful installation of drilled pier foundations at this site. Concrete should be placed using tremie methods from the bottom of the pier excavations in order to displace water from the holes as the concrete is placed.

The shafts installation should be monitored by the geotechnical engineer or his designated representative. The shafts shall be vertical and all loose debris should be removed from the bottom of the shaft prior to placing of the concrete.

We will be glad to further assist you, as your needs dictate, to develop a specific foundation details regarding an embedment depth and diameter of the shafts.

4.0 REPORT LIMITATIONS

This consulting report has been prepared for the exclusive use of the current project owners and other members of the design team for the signalization installation located at the east intersection of Riverside Circle and Goodlette Frank Road in Naples, Collier County, Florida. This report has been prepared in accordance with generally accepted local geotechnical engineering practices; no other warranty is expressed or implied. The evaluation submitted in this report, is based in part upon the data collected during a field exploration, however, the nature and extent of variations throughout the subsurface profile may not become evident until the time of construction. If variations then appear evident, it may be necessary to reevaluate information and professional opinions as provided in this report. In the event changes are made in the nature, design, or locations of the proposed structure, the evaluation and opinions contained in this report shall not be considered valid, unless the changes are reviewed and conclusions modified or verified in writing by GFA International. GFA is not responsible for damage caused by soil improvement and/or construction activity vibrations related to this project. GFA is also not responsible for damage concerning drainage or moisture related issues for the proposed or nearby structures.



5.0 BASIS FOR RECOMMENDATIONS

The analysis and recommendations submitted in this report are based on the data obtained from the tests performed at the locations indicated on the attached figure in Appendix B. This report does not reflect any variations, which may occur between borings. While the borings are representative of the subsurface conditions at their respective locations and for their vertical reaches, local variations characteristic of the subsurface soils of the region are anticipated and may be encountered. The delineation between soil types shown on the soil logs is approximate and the description represents our interpretation of the subsurface conditions at the designated boring locations on the particular date drilled.

Any third party reliance of our geotechnical report or parts thereof is strictly prohibited without the expressed written consent of GFA International. The methodology (ASTM D-1586) used in performing our borings and for determining penetration resistance is specific to the sampling tools utilized and does not reflect the ease or difficulty to advance other tools or materials.



Appendix A - Vicinity Map



Appendix B - Notes Related to Borings



**NOTES RELATED TO
RECORDS OF TEST BORING AND
GENERALIZED SUBSURFACE PROFILE**

1. Groundwater level was encountered and recorded (if shown) following the completion of the soil test boring on the date indicated. Fluctuations in groundwater levels are common; consult report text for a discussion.
2. The boring location was identified in the field by offsetting from existing reference marks and using a cloth tape and survey wheel.
3. The borehole was backfilled to site grade following boring completion, and patched with asphalt cold patch mix when pavement was encountered.
4. The Record of Test Boring represents our interpretation of field conditions based on engineering examination of the soil samples.
5. The Record of Test Boring is subject to the limitations, conclusions and recommendations presented in the Report text.
6. "Field Test Data" shown on the Record of Test Boring indicated as 11/6 refers to the Standard Penetration Test (SPT) and means 11 hammer blows drove the sampler 6 inches. SPT uses a 140-pound hammer falling 30 inches.
7. The N-value from the SPT is the sum of the hammer blows required to drive the sampler the second and third 6-inch increments.
8. The soil/rock strata interfaces shown on the Records of Test Boring are approximate and may vary from those shown. The soil/rock conditions shown on the Records of Test Boring refer to conditions at the specific location tested; soil/rock conditions may vary between test locations.

9. Relative density for sands/gravels and consistency for silts/clays are described as follows:

SPT	CPT	SANDS/GRAVELS	SPT	CPT	SILTS/CLAYS
BLOWS/FOOT	KG/CM ²	RELATIVE DENSITY	BLOWS/FOOT	KG/CM ²	CONSISTENCY
0-2	0-16	Very loose	under 1	0-3	Very soft
3-8	17-40	Loose	1-3	4-9	Soft
9-24	41-120	Medium Dense	4-6	10-17	Firm
25-40	over 120	Dense	7-12	18-31	Stiff
over 40		Very Dense	13-24	32-60	Very stiff
			over 24	over 60	Hard

10. Grain size descriptions are as follows:

11. Definition of Descriptive Terms of Fines:

NAME	SIZE LIMITS	PROPORTION	ADJECTIVE
Boulder	12 Inches or more	Up to 10%	with a trace
Cobbles	3 to 12 Inches	10 to 30%	with some
Coarse Gravel	¾ to 3 Inches		
Fine Gravel	No. 4 sieve to ¾ inch		
Coarse Sand	No. 10 to No. 4 sieve		
Medium Sand	No. 40 to No. 10 sieve		
Fine Sand	No. 200 to No. 40 sieve		
Fines	Smaller than No. 200 sieve		

11. Definitions related to adjectives used in soil/rock descriptions:

PROPORTION	ADJECTIVE	APPROXIMATE ROOT DIAMETER	ADJECTIVE
Up to 10%	with a trace	Less than 1/32"	Fine roots
10 to 30%	with some	1/32" to ¼"	Small roots
30 to 50%	with	¼" to 1"	Medium roots
		Greater than 1"	Large roots



Appendix C - Report of Test Borings



TEST LOCATION PLAN

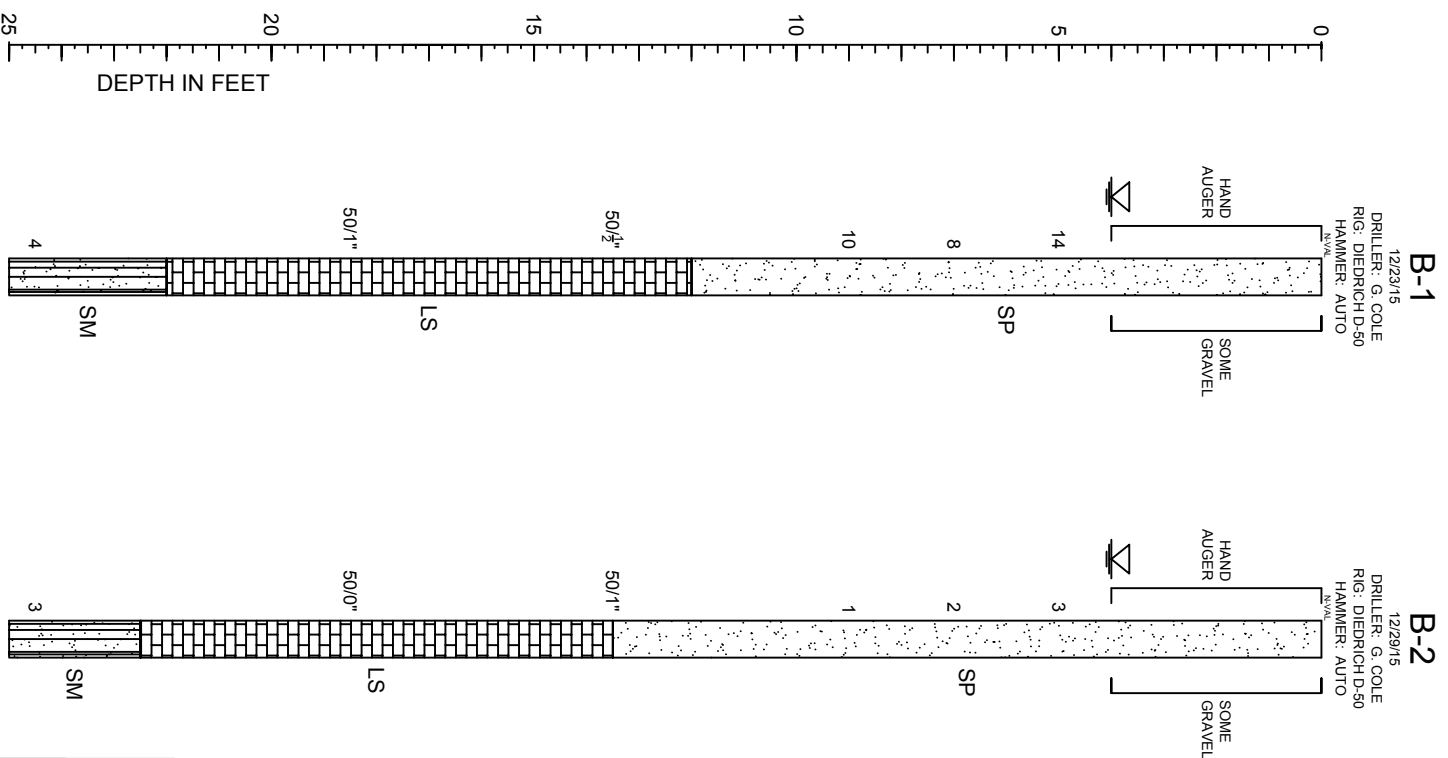


NOTES: SPT BORING LOCATION

BASE MAP OBTAINED FROM GOOGLE EARTH
SCALE IS AN APPROXIMATION AND MAY NOT BE ACCURATE



SOIL PROFILES



SOIL LEGEND

- ① Gray, brown, SAND, loose to medium dense (SP)
- ② Gray LIMESTONE, hard (LS)
- ③ Brown SILTY SAND, loose (SM)

SOIL PROFILE LEGEND NOTES

B-X = BORING NUMBER
N = SPT TEST VALUE
SOIL TYPE X
INDICATES PRACTICAL EQUIPMENT IN SOIL TYPES
H = INDICATES GRAVUL TRANSITION

N - STANDARD PENETRATION RESISTANCE TEST (SPT) VALUE
NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12-INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).
ALL ELEVATIONS BASED ON EXISTING GROUND LEVEL.
WOH = WEIGHT OF HAMMER
LFC = LOSS OF DRILLING FLUID CIRCULATION

SOIL DESCRIPTION
CORRELATION OF N-VALUES WITH RELATIVE DENSITY AND CONSISTENCY -
GRANULAR MATERIALS -
SPT N-VALUES
BLOW/FOOT
LESS THAN 3 VERY LOOSE
3 - 8 LOOSE
8 - 24 MEDIUM DENSE
24 - 40 DENSE
GREATER THAN 40 VERY DENSE

APPROXIMATE FINES CONTENT
PERCENTAGE
5% TO 15% SLIGHTLY SILTY OR SLIGHTLY CLAYEY
16% TO 25% SILTY OR CLAYEY
26% TO 49% VERY SILTY OR VERY CLAYEY

SILTS AND CLAYS -
SPT N-VALUES
BLOW/FOOT
LESS THAN 1 VERY SOFT
1 - 3 SOFT
3 - 6 FIRM
6 - 12 STIFF
12 - 24 VERY STIFF
GREATER THAN 24 HARD

APPROXIMATE SAND/GRAVEL CONTENT
PERCENTAGE
5% TO 15% MODIFIERS
16% TO 25% SLIGHTLY SANDY OR SLIGHTLY GRAVELLY
26% TO 49% VERY SANDY OR VERY GRAVELLY

CORRELATION OF N-VALUES WITH HARDNESS OF LIMESTONE -
LIMESTONE -
SPT N-VALUES
BLOW/FOOT
LESS THAN 20 HARDNESS
20 - 49 VERY SOFT
50 - 100 MEDIUM HARD
50 FOR 2 TO 5" MODERATELY HARD
50 FOR 0 TO 2" HARD

Boring No.	Stratum	Depth (ft)	Unit Weight (moist) (pcf)	Angle of Internal Friction (°)	Cohesion Cu (psf)	Relative Density (Dr) (%)	Soil Strain (E _s)	Modulus of Subgrade Reaction (k)	USCS
B-1	1	0 - 12	112	30	-	35	-	25	SP
	2	12 - 22	135	-	5000	-	0.4	2000	LS
	3	22 - 25	105	28	-	-	-	20	SM
B-2	1	0 - 12	110	30	-	35	-	25	SP
	2	13.5 - 22.5	135	-	5000	-	0.4	2010	LS
	3	22.5 - 25	105	28	-	-	-	20	SM

DATE		BY		DESCRIPTION		REVISIONS		DATE		BY		DESCRIPTION	

GFA INTERNATIONAL, INC.
5851 COUNTRY LAKES DRIVE
FORT MYERS, FLORIDA 33905

COLLIER COUNTY DEPARTMENT OF TRANSPORTATION

ROAD NAME: RIVERSIDE CIRCLE
COUNTY NAME: COLLIER
PROJECT ID: 15-2531

DENNIS F. MCCOY P.E. #54834

REPORT OF TEST BORINGS
RIVERSIDE CIRCLE INTERSECTION
NAPLES, COLLIER COUNTY, FLORIDA

SHEET NO. _____

Appendix D - Discussion of Soil Groups



DISCUSSION OF SOIL GROUPS

COARSE GRAINED SOILS

GW and SW GROUPS. These groups comprise well-graded gravelly and sandy soils having little or no plastic fines (less than 5 percent passing the No. 200 sieve). The presence of the fines must not noticeably change the strength characteristics of the coarse-grained fraction and must not interface with its free-draining characteristics.

GP and SP GROUPS. Poorly graded gravels and sands containing little or no plastic fines (less than 5 percent passing the No. 200 sieve) are classed in GP and SP groups. The materials may be called uniform gravels, uniform sands or non-uniform mixtures of very coarse material and very fine sands, with intermediate sizes lacking (sometimes called skip-graded, gap-graded or step-graded). This last group often results from borrow pit excavation in which gravel and sand layers are mixed.

GM and SM GROUPS. In general, the GM and SM groups comprise gravels or sands with fines (more than 12 percent passing the No. 200 sieve) having low or no plasticity. The plasticity index and liquid limit of soils in the group should plot below the "A" line on the plasticity chart. The gradation of the material is not considered significant and both well and poorly graded materials are included.

GC and SC GROUPS. In general, the GC and SC groups comprise gravelly or sandy soils with fines (more than 12 percent passing the No. 200 sieve), which have a fairly high plasticity. The liquid limit and plasticity index should plot above the "A" line on the plasticity chart.

FINE GRAINED SOILS

ML and MH GROUPS. In these groups, the symbol M has been used to designate predominantly silty material. The symbols L and H represent low and high liquid limits, respectively, and an arbitrary dividing line between the two is set at a liquid limit of 50. The soils in the ML and MH groups are sandy silts, clayey silts or inorganic silts with relatively low plasticity. Also included are loess type soils and rock flours.

CL and CH GROUPS. In these groups the symbol C stands for clay, with L and H denoting low or high liquid limits, with the dividing line again set at a liquid limit of 50. The soils are primarily inorganic clays. Low plasticity clays are classified as CL and are usually lean clays, sandy clays or silty clays. The medium and high plasticity clays are classified as CH. These include the fat clays, gumbo clays and some volcanic clays.



OL and OH GROUPS. The soil in the OL and OH groups are characterized by the presence of organic odor or color, hence the symbol O. Organic silts and clays are classified in these groups. The materials have a plasticity range that corresponds with the ML and MH groups.

HIGHLY ORGANIC SOILS

The highly organic soils are usually very soft and compressible and have undesirable construction characteristics. Particles of leaves, grasses, branches, or other fibrous vegetable matter are common components of these soils. They are not subdivided and are classified into one group with the symbol PT. Peat humus and swamp soils with a highly organic texture are typical soils of the group.



Addendum 3 - Exhibit B – REVISED Central Bid Form (FINAL)

Attachment A

CONCentral

ITEM NO.	ITEM DESCRIPTION	UNIT	PROJECT QUANTITY	UNIT PRICE	AMOUNT
Roadway					
0101 1	MOBILIZATION	LS	1		\$0.00
0102 1	MAINTENANCE OF TRAFFIC	LS	1		\$0.00
0104 10 3	SEDIMENT BARRIER	LF	1885		\$0.00
0104 18	INLET PROTECTION SYSTEM	EA	44		\$0.00
0110 1 1	CLEARING & GRUBBING	AC	3.72		\$0.00
0110 4	REMOVAL OF EXISTING CONCRETE PAVEMENT	SY	2230		\$0.00
0120 1	REGULAR EXCAVATION	CY	3908		\$0.00
0120 6	EMBANKMENT	CY	813		\$0.00
0160 4	TYPE B STABILIZATION	SY	7547		\$0.00
0162 1 11	PREPARED SOIL LAYER, FINISH SOIL, 6"	SY	533		\$0.00
0210 1 8	REWORKING LIMEROCK BASE, 4"	SY	155		\$0.00
0285709	OPTIONAL BASE, BASE GROUP 09	SY	5104		\$0.00
0327 70 5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	SY	11693		\$0.00
0334 1 12	SUPERPAVE ASPHALTIC CONC, TRAFFIC B	TN	1205.4		\$0.00
0334 1 12	SUPERPAVE ASPHALTIC CONC, TRAFFIC B (OVERBUILD)	TN	470.6		\$0.00
0337 7 42	ASPH CONC FC, TRAFFIC B, FC-9.5, PG 76-22	TN	929.2		\$0.00
0339 1	MISC. ASPHALT PAVEMENT	TN	8.25		\$0.00
0425 1201	INLETS, CURB, TYPE 9, <10	EA	2		\$0.00
0425 1203	INLETS, CURB, TYPE 9, J BOT, <10	EA	1		\$0.00
0425 1331	INLETS, CURB, TYPE P-3, <10	EA	2		\$0.00
0425 1341	INLETS, CURB, TYPE P-4, <10	EA	7		\$0.00
0425 1351	INLETS, CURB, TYPE P-5, <10	EA	7		\$0.00
0425 1361	INLETS, CURB, TYPE P-6, <10	EA	7		\$0.00
0425 1362	INLETS, CURB, TYPE P-6, >10	EA	1		\$0.00
0425 1441	INLETS, CURB, TYPE J-4, <10	EA	1		\$0.00
0425 1451	INLETS, CURB, TYPE J-5, <10	EA	1		\$0.00
0425 1461	INLETS, CURB, TYPE J-6, <10	EA	1		\$0.00
0425 1521	INLETS, DT BOT, TYPE C, <10'	EA	8		\$0.00
0425 1910	INLETS, CLOSED FLUME	EA	6		\$0.00
0425 2 41	MANHOLE, P-7, <10'	EA	8		\$0.00
0425 2 43	MANHOLE, P-7, PARTIAL	EA	4		\$0.00
0425 2 61	MANHOLE, P-8 <10	EA	1		\$0.00
0425 2 71	MANHOLE, J-7, <10'	EA	3		\$0.00
0425 2 73	MANHOLE, J-7, PARTIAL	EA	1		\$0.00
0425 2 93	MANHOLE, J-8, PARTIAL	EA	1		\$0.00
0430175118	PIPE CULV, OPT. MATL, ROUND 18" S/CD	LF	1791		\$0.00
0430175124	PIPE CULV, OPT. MATL, ROUND 24" S/CD	LF	220		\$0.00
0430175130	PIPE CULV, OPT. MATL, ROUND, 30" S/CD	LF	1026		\$0.00
0430175218	PIPE CULV, OPT. MATL, OTHER 18" S/CD	LF	398		\$0.00
0440 1 10	UNDERDRAIN, TYPE I	LF	591		\$0.00
0520 1 10	CONCRETE CURB & GUTTER, TYPE F	LF	5915		\$0.00
0520 2 2	CONCRETE CURB, TYPE B	LF	425.9		\$0.00
0520 2 4	CONCRETE CURB, TYPE D	LF	4320		\$0.00
0520 2 8	CONCRETE CURB, TYPE RA	LF	301.8		\$0.00
0522 1	SIDEWALK CONC, 4" THICK	SY	3496		\$0.00
0522 2	SIDEWALK CONC, 6" THICK	SY	176		\$0.00
0526 1 1-A	PAVERS, ARCHITECTURAL, TRUCK APRON	SY	250.2		\$0.00
0526 1 1-B	PAVERS, ARCHITECTURAL, SPLITTER ISLANDS	SY	135		\$0.00
0526 1 1-C	PERVIOUS PAVERS, ARCHITECTURAL, PARKING	SY	557		\$0.00
550 10 228	FENCING, TYPE B, 5.1-6.0, RESET EXISTING	LF	280		\$0.00
550 60 223	FENCE GATE, TYPE B, DOUBLE, 12.1-18.0' OPENING	EA	1		\$0.00
0527 2	DETECTABLE WARNINGS	SF	328		\$0.00
0570 1 2	PERFORMANCE TURF, SOD	SY	533		\$0.00
BIO-S.	BIOSWALES (WATER QUALITY SYSTEM)	EA	5		\$0.00
Signing and Marking					
0523 1 3	PATTERNED PAVEMENT, VEHICULAR AREAS, GREEN BIKE LANE	SY	744		\$0.00
0700 1 11	SINGLE POST SIGN, F&I, LESS THAN 12 SF	AS	39		\$0.00
0700 1 50	SINGLE POST SIGN, RELOCATE	AS	3		\$0.00
0700 1 60	SINGLE POST SIGN, REMOVE	AS	1		\$0.00
0706 3	RETRO-REFLECTIVE PAVEMENT MARKERS	EA	142		\$0.00
0711 11123	THERMOPLASTIC, STD, WHITE, SOLID, 12"	LF	2026		\$0.00
0711 11124	THERMOPLASTIC, STD, WHITE, SOLID, 18"	LF	30		\$0.00
0711 11125	THERMOPLASTIC, STD, WHITE, SOLID, 24"	LF	2201		\$0.00
0711 11141	THERMOPLASTIC, STD, WHITE, 2-4 DOTTED GUIDELINE / 6-10 DOTTED EXTENSION LINE, 6"	GM	0.769		\$0.00
0711 11160	THERMOPLASTIC, STD, WHITE, MESSAGE	EA	8		\$0.00
0711 11170	THERMOPLASTIC, STD, WHITE, ARROW	EA	19		\$0.00
0711 11180	THERMOPLASTIC, STD, WHITE, YIELD LINE	LF	111		\$0.00
0711 11224	THERMOPLASTIC, STD, YELLOW, SOLID, 18"	LF	149		\$0.00
0711 11241	THERMOPLASTIC, STD, YELLOW, 2-4 DOTTED GUIDELINE / 6-10 DOTTED EXTENSION LINE, 6"	GM	0.129		\$0.00
0711 11421	THERMOPLASTIC, STD, BLUE, SOLID, 6"	LF	56		\$0.00
0711 14160	THERMOPLASTIC, PREFORMED, WHITE, MESSAGE	EA	22		\$0.00
0711 14170	THERMOPLASTIC, PREFORMED, WHITE, ARROWS	EA	21		\$0.00
0711 16101	THERMOPLASTIC, STD-OTHER SURFACES, WHITE, SOLID, 6"	GM	1.615		\$0.00

Attachment A

CONCentral

0711 16102	THERMOPLASTIC, STD-OTHER SURFACES, WHITE, SOLID, 8"	GM	0.047		\$0.00
0711 16131	THERMOPLASTIC, STD-OTHER SURFACES, WHITE, SKIP, 6"	GM	0.03		\$0.00
0711 16201	THERMOPLASTIC, STD-OTHER SURFACES, YELLOW, SOLID, 6"	GM	1.093		\$0.00
0711 16202	THERMOPLASTIC, STD-OTHER SURFACES, YELLOW, SOLID, 8"	GM	0.02		\$0.00
Signalization					
0630 2 11	CONDUIT, F&I, OPEN TRENCH	LF	530		\$0.00
0630 2 12	CONDUIT, F&I, DIRECTIONAL BORE	LF	555		\$0.00
0632 7 1	SIGNAL CABLE, FURNISH & INSTALL	PI	1		\$0.00
0635 2 11	PULL & SPLICE BOX, F&I, 13"X24" COVER SIZE	EA	14		\$0.00
0641 2 70	PRESTRESSED CONCRETE POLE, SHALLOW POLE REMOVAL, POLE 30' & GREATER	EA	1		\$0.00
0646 1 11	ALUMINUM SIGNALS POLE, PEDESTAL	EA	4		\$0.00
0646 1 60	ALUMINUM SIGNALS POLE, REMOVE	EA	2		\$0.00
0649 31102	MAST ARM, F&I, WIND SPEED-150, SINGLE ARM, W/O LUMINAIRE - 46	EA	1		\$0.00
0649 31108	MAST ARM, F&I, WIND SPEED-150, SINGLE ARM, WITH LUMINAIRE - 60	EA	1		\$0.00
0649 36300	MAST ARM, REMOVE SHALLOW FOUNDATION, BOLT ON ATTACHMENT	EA	2		\$0.00
0650 1 14	TRAFFIC SIGNAL, F&I, 3 SECTION, 1 WAY, ALUMINUM	AS	6		\$0.00
0650 1 18	TRAFFIC SIGNAL, F&I, 5 SECTION STRAIGHT, 1 WAY, ALUMINUM	AS	1		\$0.00
0650 1 70	TRAFFIC SIGNAL, RELOCATE	AS	2		\$0.00
0653 1 12	PEDESTRIAN SIGNAL, F&I, LED COUNTDOWN, 2 WAYS	AS	2		\$0.00
0660 1 101	LOOP DETECTOR INDUCTIVE, F&I, TYPE 1	EA	1		\$0.00
0660 2 102	LOOP ASSEMBLY, F&I, TYPE B	AS	12		\$0.00
0660 2 106	LOOP ASSEMBLY, F&I, TYPE F	AS	9		\$0.00
0665 1 11	PEDESTRIAN DETECTOR, F&I, STANDARD	EA	4		\$0.00
0670 5400	TRAFFIC CONTROLLER ASSEMBLY, MODIFY	AS	1		\$0.00
0682 1 400	ITS CCTV CAMERA, RELOCATE	EA	1		\$0.00
0700 5 22	INTERNALLY ILLUMINATED SIGN, F&I, OVERHEAD MOUNT, 12-18 SF	EA	2		\$0.00
Lighting					
0630 2 11	CONDUIT, F&I, OPEN TRENCH	LF	3525		\$0.00
0630 2 12	CONDUIT, F&I, DIRECTIONAL BORE	LF	1505		\$0.00
0635 2 11	PULL & SPLICE BOX, F&I, 13"X24" COVER SIZE	EA	42		\$0.00
0715 1 12	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 8-6	LF	19540		\$0.00
0715 1 13	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 4-2	LF	160		\$0.00
0715 1 60	LIGHTING CONDUCTORS, REMOVE & DISPOSE, CONTRACTOR OWNS	LF	1395		\$0.00
0715 7 11	LOAD CENTER, F&I SECONDARY VOLTAGE	EA	1		\$0.00
0715 11 118	LUMINAIRE, F&I, ROADWAY, FLOOD	EA	4		\$0.00
0715-516-115	LIGHT POLE COMPLETE-SPECIAL DESIGN, F&I, POLE TOP MOUNT, ALUMINUM, CUSTOM HEIGHT	EA	31		\$0.00
0715-540-000	LIGHT POLE COMPLETE-SPECIAL DESIGN, RELOCATE	EA	5		\$0.00
0715-550-000	LIGHT POLE COMPLETE-SPECIAL DESIGN, REMOVE	EA	3		\$0.00
Utilities					
1050 11222	2-4.9" PVC Pipe (F&I) - PROPOSED 2" & 4"	LF	125		\$0.00
1050 11223	5-7.9" PVC Pipe (F&I) - PROPOSED 6"	LF	625		\$0.00
1050 11224	8-19.9" PVC Pipe (F&I) - PROPOSED 8", 12", 16", 18"	LF	2010		\$0.00
1050 11424	8-19.9" DI PIPE (F&I) - PROPOSED 8"	LF	80		\$0.00
1050 11324	8-19.9" PE Pipe (F&I) - PROPOSED 10" (Directional Drill)	LF	375		\$0.00
1050 18002	2-4.9" Plug & Out of Service - 2" & 4"	LF	1021		\$0.00
1050 18003	5-7.9" Plug & Out of Service - 6"	LF	1235		\$0.00
1050 18004	8-19.9" Plug & Out of Service - 16"	LF	120		\$0.00
1080 11207	UTILITY FIXTURES, F&I, 2-4.9", LINE STOP	EA	1		\$0.00
1080 11307	UTILITY FIXTURES, F&I, 5-7.9", LINE STOP	EA	4		\$0.00
1080 11407	UTILITY FIXTURES, F&I, 8-19.9", LINE STOP	EA	3		\$0.00
1055 11414	UTILITY FITTING, F&I, DI/CI, ELBOW, 8-19.9"	EA	65		\$0.00
1055 11424	UTILITY FITTINGS, F&I, DI/CI, TEE, 8 - 19.9"	EA	17		\$0.00
1055 11454	8-19" UTILITY FITTINGS (F&I) PLUG/CAP	EA	2		\$0.00
1080 11404	UTIL FIXT, F&I, 8-19.9", VALVE ASSEMBLY	EA	32		\$0.00
1080 11409	UTIL FIXT, F&I, 8-19.9", MECH JONT RESTR	EA	260		\$0.00
1644113 08	FIRE HYDRANT, F&I, STD, 2 HOSE, 1 PUMP, 6"	EA	5		\$0.00
-	Long Water Services	EA	8		\$0.00
-	Short Water Services	EA	10		\$0.00
Landscaping					
751-38-11	BENCH	EA	3		\$0.00
SINGLE TRUNK PALMS - LARGE PLANTS					
580-1-2	ARCHONTOPHOENIX CUNNINGHAMIANA (PICCABEEN PALM)	EA	29		\$0.00
580-1-2	ROYSTONEA REGIA (ROYAL PALM)	EA	63		\$0.00
580-1-2	ADONIDIA MERRILLII (CHRISTMAS PALM)	EA	45		\$0.00
TREES - LARGE PLANS					
580-1-2	QUERCUS VIRGINIANA "HIGH RISE" (HIGH RISE SOUTHERN LIVE OAK)	EA	17		\$0.00
580-1-2	TAXODIUM DISTICHUM (BALD CYPRESS)	EA	9		\$0.00
SHRUBS - SMALL AND LARGE PLANTS					
580-1-2	CHRYSOBALANUS ICACO "RED TIP" (RED TIP COCOPLUM)	EA	232		\$0.00
580-1-1	DIANELLA TASMANICA "VARIEGATA" (FLAX LILY)	EA	675		\$0.00
580-1-1	CODIAEUM VARIEGATUM "MAMMEY" (CROTON)	EA	692		\$0.00
580-1-1	SCHIEFFLERA ARBORICOLA "TRINETTE" (VARIEGATED SCHEFFLERA)	EA	505		\$0.00
580-1-1	DURANTA REPANS "GOLD MOUND" (GOLDEN DEWDROP DURANTA)	EA	101		\$0.00
580-1-1	FICUS MICROCARPA "GREEN ISLAND" (GREEN ISLAND FICUS)	EA	3019		\$0.00
580-1-1	JUNIPERUS CHINENSIS "PARSONII" (CHINESE JUNIPER)	EA	488		\$0.00
580-1-1	NEOREGELIA X "ROYAL BURGANDY" (ROYAL BURGANDY BROMELIAD)	EA	186		\$0.00

Attachment A

CONCentral

ANNUALS					
580-1-1	ANNUALS	EA	308		\$0.00
ORNAMENTAL GRASSES - SMALL PLANTS					
580-1-1	MUHLENBERGIA CAPILLARIS(PINK MUHLY)	EA	503		\$0.00
580-1-1	SPARTINA BAKERI(SAND CORD GRASS)	EA	156		\$0.00
SOIL AMENDMENTS					
-	BOLD & GOLD	CY	48		\$0.00
Irrigation					
0590 70	IRRIGATION SYSTEM	LS	1		\$0.00

CONTRACTOR NAME: _____
PRINT / SIGN / DATE

SUBTOTAL:	\$0.00
2.5% ALLOWANCE:	\$0.00
PROJECT TOTAL:	\$0.00

ITEM NO.	ITEM DESCRIPTION	UNIT	PROJECT QUANTITY
Roadway			
0101 1	MOBILIZATION	LS	1
0102 1	MAINTENANCE OF TRAFFIC	LS	1
0104 10 3	SEDIMENT BARRIER	LF	1885
0104 18	INLET PROTECTION SYSTEM	EA	44
0110 1 1	CLEARING & GRUBBING	AC	3.72
0110 4	REMOVAL OF EXISTING CONCRETE PAVEMENT	SY	2230
0120 1	REGULAR EXCAVATION	CY	3908
0120 6	EMBANKMENT	CY	813
0160 4	TYPE B STABILIZATION	SY	7547
0162 1 11	PREPARED SOIL LAYER, FINISH SOIL, 6"	SY	533
0210 1 8	REWORKING LIMESTONE BASE, 4"	SY	155
0285709	OPTIONAL BASE BASE GROUP 09	SY	5104
0327 70 5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	SY	11893
0334 1 12	SUPERPAVE ASPHALTIC CONC, TRAFFIC B	TN	1205.4
0334 1 12	SUPERPAVE ASPHALTIC CONC, TRAFFIC B (OVERBUILD)	TN	470.6
0337 7 42	ASPH CONC FC, TRAFFIC B, FC-9.5, PG 76-22	TN	929.2
0339 1	MISC. ASPHALT PAVEMENT	TN	8.25
0425 1201	INLETS, CURB, TYPE 9, <10	EA	2
0425 1208	INLETS, CURB, TYPE 9, J-BOT, <10	EA	2
0425 1331	INLETS, CURB, TYPE P-3, <10	EA	2
0425 1341	INLETS, CURB, TYPE P-4, <10	EA	7
0425 1351	INLETS, CURB, TYPE P-5, <10	EA	7
0425 1361	INLETS, CURB, TYPE P-6, <10	EA	7
0425 1382	INLETS, CURB, TYPE P-6, >10	EA	1
0425 1441	INLETS, CURB, TYPE J-4, <10	EA	1
0425 1451	INLETS, CURB, TYPE J-5, <10	EA	1
0425 1461	INLETS, CURB, TYPE J-6, <10	EA	1
0425 1521	INLETS, DT BOT, TYPE C, <10"	EA	8
0425 1910	INLETS, CLOSED FLUME	EA	6
0425 2 41	MANHOLE, P-7, <10"	EA	8
0425 2 43	MANHOLE, P-7, PARTIAL	EA	4
0425 2 61	MANHOLE, P-8 <10"	EA	1
0425 2 71	MANHOLE, J-7, <10"	EA	3
0425 2 73	MANHOLE, J-7, PARTIAL	EA	1
0425 2 93	MANHOLE, J-8, PARTIAL	EA	1
0430175118	PIPE CULV, OPT. MATL, ROUND 18" S/GD	LF	1791
0430175124	PIPE CULV, OPT. MATL, ROUND 24" S/GD	LF	220
0430175130	PIPE CULV, OPT. MATL, ROUND, 30" S/GD	LF	1026
0430175218	PIPE CULV, OPT. MATL, OTHER 18" S/GD	LF	398
0440 1 10	UNDERDRAIN, TYPE I	LF	591
0520 1 10	CONCRETE CURB & GUTTER, TYPE F	LF	5915
0520 2 2	CONCRETE CURB, TYPE B	LF	425.9
0520 2 4	CONCRETE CURB, TYPE D	LF	4320
0520 2 8	CONCRETE CURB, TYPE RA	LF	301.8
0522 1	SIDEWALK CONC, 4" THICK	SY	3496
0522 2	SIDEWALK CONC, 6" THICK	SY	176
0526 1 1-A	PAVERS, ARCHITECTURAL, TRUCK APRON	SY	250.2
0526 1 1-B	PAVERS, ARCHITECTURAL, SPLITTER ISLANDS	SY	135
0526 1 1-C	PERVIOUS PAVERS, ARCHITECTURAL, PARKING	SY	557
550 10 228	FENCING, TYPE B, 5.1-6.0, RESET EXISTING	LF	280
550 60 223	FENCE GATE, TYPE B, DOUBLE, 12.1-18.0' OPENING	EA	1
0527 2	DETECTABLE WARNINGS	SF	328
0570 1 2	PERFORMANCE TURF, SOD	SY	533
BIO-S.	BIOSWALES (WATER QUALITY SYSTEM)	EA	6
Signing and Marking			
0523 1 3	PATTERNED PAVEMENT, VEHICULAR AREAS, GREEN BIKE LANE	SY	744
0700 1 11	SINGLE POST SIGN, F&I, LESS THAN 12 SF	AS	39
0700 1 50	SINGLE POST SIGN, RELOCATE	AS	3
0700 1 60	SINGLE POST SIGN, REMOVE	AS	1
0706 3	RETRO-REFLECTIVE PAVEMENT MARKERS	EA	142
0711 1123	THERMOPLASTIC, STD, WHITE, SOLID, 12"	LF	2026

DATE	DESCRIPTION	REVISIONS
01/13/16	QUANTITY REVISED	
01/14/16	PAY ITEM AND QUANTITY ADDED	

Kimley»Horn
 GARY L. MADEAU, P.E.
 P.E. LICENSE NUMBER: 49629
 1772 MAIN STREET, SUITE 200
 3RD FLOOR
 PHONE (941) 319-6600
 CERTIFICATE OF AUTHORIZATION: 00000696

ITEM NO.	ITEM DESCRIPTION	UNIT	PROJECT QUANTITY
0711 11124	THERMOPLASTIC, STD, WHITE, SOLID, 18"	LF	30
0711 11125	THERMOPLASTIC, STD, WHITE, SOLID, 24"	LF	2201
0711 11141	THERMOPLASTIC, STD, WHITE, 2-4 DOTTED GUIDELINE / 6-10 DOTTED EXTENSION LINE, 6"	GM	0.769
0711 11160	THERMOPLASTIC, STD, WHITE, MESSAGE	EA	8
0711 11170	THERMOPLASTIC, STD, WHITE, ARROW	EA	19
0711 11180	THERMOPLASTIC, STD, WHITE, YIELD LINE	LF	111
0711 11224	THERMOPLASTIC, STD, YELLOW, SOLID, 18"	LF	149
0711 11241	THERMOPLASTIC, STD, YELLOW, 2-4 DOTTED GUIDELINE / 6-10 DOTTED EXTENSION LINE, 6"	GM	0.129
0711 11421	THERMOPLASTIC, STD, BLUE, SOLID, 6"	LF	56
0711 14160	THERMOPLASTIC, PREFORMED, WHITE, MESSAGE	EA	22
0711 14170	THERMOPLASTIC, PREFORMED, WHITE, ARROWS	EA	21
0711 16101	THERMOPLASTIC, STD-OTHER SURFACES, WHITE, SOLID, 6"	GM	1.615
0711 16102	THERMOPLASTIC, STD-OTHER SURFACES, WHITE, SOLID, 8"	GM	0.047
0711 16131	THERMOPLASTIC, STD-OTHER SURFACES, WHITE, SKIP, 6"	GM	0.03
0711 16201	THERMOPLASTIC, STD-OTHER SURFACES, YELLOW, SOLID, 6"	GM	1.093
0711 16202	THERMOPLASTIC, STD-OTHER SURFACES, YELLOW, SOLID, 8"	GM	0.02
Signalization			
0630 2 11	CONDUIT, F&I, OPEN TRENCH	LF	530
0630 2 12	CONDUIT, F&I, DIRECTIONAL BORE	LF	555
0632 7 1	SIGNAL CABLE, FURNISH & INSTALL	PI	1
0635 2 11	PULL & SPLICE BOX F&I, 13"x24" COVER SIZE	EA	4
0641 2 70	PRESTRESSED CONCRETE POLE, SHALLOW POLE REMOVAL, POLE 30' & GREATER	EA	1
0646 1 11	ALUMINUM SIGNALS POLE, PEDESTAL	EA	4
0646 1 60	ALUMINUM SIGNALS POLE, REMOVE	EA	2
0649 31102	MAST ARM, F&I, WIND SPEED-150, SINGLE ARM, W/O LUMINAIRE - 46	EA	1
0649 31108	MAST ARM, F&I, WIND SPEED-150, SINGLE ARM, WITH LUMINAIRE - 60	EA	1
0649 36300	MAST ARM, REMOVE SHALLOW FOUNDATION, BOLT ON ATTACHMENT	EA	2
0650 1 14	TRAFFIC SIGNAL, F&I, 3 SECTION, 1 WAY, ALUMINUM	AS	6
0650 1 18	TRAFFIC SIGNAL, F&I, 5 SECTION STRAIGHT, 1 WAY, ALUMINUM	AS	1
0650 1 70	TRAFFIC SIGNAL, RELOCATE	AS	2
0653 102	PEDESTRIAN SIGNAL, F&I, LED COUNTERDOWN, 2 WAY	AS	2
0660 1 101	LOOP DETECTOR INDUCTIVE, F&I, TYPE 1	EA	1
0660 2 102	LOOP ASSEMBLY, F&I, TYPE B	AS	12
0660 2 106	LOOP ASSEMBLY, F&I, TYPE F	AS	9
0665 1 11	PEDESTRIAN DETECTOR, F&I, STANDARD	EA	4
0670 5400	TRAFFIC CONTROLLER ASSEMBLY, MODIFY	EA	1
0682 1 400	ITS CCTV CAMERA, RELOCATE	EA	1
0700 5 22	INTERNALLY ILLUMINATED SIGN, F&I, OVERHEAD MOUNT, 12-18 SF	EA	2
Lighting			
0630 2 11	CONDUIT, F&I, OPEN TRENCH	LF	3525
0630 2 12	CONDUIT, F&I, DIRECTIONAL BORE	LF	1505
0635 2 11	PULL & SPLICE BOX F&I, 13"x24" COVER SIZE	EA	42
0715 1 12	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 8-6	LF	19540
0715 1 13	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 4-2	LF	160
0715 1 60	LIGHTING CONDUCTORS, REMOVE & DISPOSE, CONTRACTOR OWNS	LF	1395
0715 7 11	LOAD CENTER, F&I SECONDARY VOLTAGE	EA	1
0715 11 118	LUMINAIRE, F&I, ROADWAY, FLOOD	EA	4
0715-516-115	LIGHT POLE COMPLETE-SPECIAL DESIGN, F&I, POLE TOP MOUNT, ALUMINUM, CUSTOM HEIGHT	EA	31
0715-540-000	LIGHT POLE COMPLETE-SPECIAL DESIGN, RELOCATE	EA	5
0715-550-000	LIGHT POLE COMPLETE-SPECIAL DESIGN, REMOVE	EA	3
Utilities			
1050 11222	2-4.9" PVC Pipe (F&I) - PROPOSED 2' & 4"	LF	125
1050 11223	5-7.9" PVC Pipe (F&I) - PROPOSED 6"	LF	625
1050 11224	8-19.9" PVC Pipe (F&I) - PROPOSED 8", 12", 16", 18"	LF	2010
1050 11424	8-19.9" DI PIPE (F&I) - PROPOSED 8"	LF	80
1050 11324	8-19.9" PE Pipe (F&I) - PROPOSED 10" (Directional Drill)	LF	375
1050 18002	2-4.9" Plug & Out of Service - 2' & 4"	LF	1021
1050 18003	5-7.9" Plug & Out of Service - 6"	LF	1235
1050 18004	8-19.9" Plug & Out of Service - 16"	LF	120
1080 11207	UTILITY FIXTURES, F&I, 2-4.9", LINE STOP	EA	1
1080 11307	UTILITY FIXTURES, F&I, 5-7.9", LINE STOP	EA	4
1080 11407	UTILITY FIXTURES, F&I, 8-19.9", LINE STOP	EA	3


CITY OF NAPLES	SHEET NO.
CENTRAL AVENUE	2

SUMMARY OF PAY ITEMS

ITEM NO.	ITEM DESCRIPTION	UNIT	PROJECT QUANTITY
1055 11414	UTILITY FITTING, F&I, D/C, ELBOW, 8-19.9"	EA	65
1055 11424	UTILITY FITTINGS, F&I, D/C, TEE, 8 - 19.9"	EA	17
1055 11454	8-19" UTILITY FITTINGS (F&I) PLUG/CAP	EA	2
1080 11404	UTIL FIXT, F&I, 8-19.9", VALVE ASSEMBLY	EA	32
1080 11409	UTIL FIXT, F&I, 8-19.9", MECH JONT RESTR	EA	260
1644113 08	FIRE HYDRANT, F&I, S, TD, 2 HOSE, 1PUMP, 6"	EA	5
-		EA	8
-	Short Water Services	EA	10
-	Landscapeing	EA	1
751-38-11	BENCH	EA	3
SINGLE TRUNK PALMS - LARGE PLANTS		EA	29
580-1-2	MARSHONTOPIA BOENIX CLUNNINGHAMANA (PCCABEEN PALM)	EA	29
580-1-2	ROYSTONEA REGIA (ROYAL PALM)	EA	63
580-1-2		EA	45
TREES - LARGE PLANS			
580-1-2	QUERCUS VIRGINIANA 'HIGH RISE' (HIGH RISE SOUTHERN LIVE OAK)	EA	17
580-1-2	TAXODIUM DISTICHUM (BALD CYPRESS)	EA	9
SHRUBS - SMALL AND LAR			
580-1-2	CHRYSPALANUS ISACORIN (RED TIP RED TIP COCORLUM)	EA	232
580-1-1	DIANELLA TASMANICA 'VARIEGATA' (FLAX LILY)	EA	679
580-1-1	CODIAEUM VARIEGATUM 'MAMMEY' (CROTON)	EA	692
580-1-1	SCHEFFLERA ARBORICOLA 'TRINETTE' (VARIEGATED SCHEFFLERA)	EA	508
580-1-1	FICUS MICROCARPA 'GREEN ISLAND' (GREEN ISLAND FIGUS)	EA	101
580-1-1		EA	3019
580-1-1		EA	488
580-1-1	NEOREGELIA X 'ROYAL BURGANDY' (ROYAL BURGANDY BROMELIAD)	EA	186
ANNUALS			
580-1-1		EA	308
ORNAMENTAL GRASSES - S			
580-1-1	MUHLENBERGIA CAPILLARIS (PINK MUHLY)	EA	503
580-1-1	SPARTINA BAKERI (SAND CORD GRASS)	EA	156
SOIL AMENDMENTS			
-	BOLD & GOLD	CY	48
Irrigation			
0590 70	IRRIGATION SYSTEM	LS	1

PAY ITEM FOOTNOTES:

- MAINTENANCE OF TRAFFIC PHASING AND DETOUR LAYOUT TO BE PROVIDED BY CONTRACTOR PRIOR TO CONSTRUCTION AND WILL REQUIRE PRIOR APPROVAL BY CITY ENGINEER BEFORE INSTALLATION. CONTRACTOR WILL BE REQUIRED TO CLOSELY COORDINATE WITH CITY ENGINEER TO PHASE CONSTRUCTION IN A WAY TO MINIMIZE DISRUPTION OF PEDESTRIAN AND VEHICULAR TRAFFIC. ALL COORDINATION, PHASING COSTS, MATERIALS, AND INSTALLATION WILL BE INCLUDED IN THE LUMP SUM ITEM.
- DROP CURB INCLUDED IN THE COST OF PARENT CURB. QUANTITY INCLUDES MOD. DROP CURB AT PERVIOUS PARKING AREAS.
- DETECTABLE WARNINGS SHALL BE EMBEDDED.
- COST TO INCLUDE ALL PAVERS, AGGREGATE, CONCRETE, BEDDING, BASE, SUB-BASE AND ALL OTHER MATERIALS AS DETAILED IN THE TYPICAL SECTIONS OF THESE PLANS. MATERIAL TYPE AND COLOR TO BE FINALIZED DURING THE SHOP DRAWING APPROVAL PROCESS.
- WILL INCLUDE ALL WORK ASSOCIATED WITH INSTALLATION OF UNDERDRAINS, NECESSARY CLEAN-OUTS (AS IDENTIFIED DURING CONSTRUCTION) AND ALL OTHER ASSOCIATED MATERIALS.
- COST OF BENCH TO INCLUDE PAVERS.
- WILL INCLUDE COST OF ALL WORK SELECT SOIL MATERIAL, FILTER BED AND ASSOCIATED MATERIALS AS OUTLINED ON LOW IMPACT DEVELOPMENT DETAIL SHEET.

		SUMMARY OF PAY ITEMS		SHEET NO.
CITY OF NAPLES CENTRAL AVENUE		CITY OF NAPLES CENTRAL AVENUE		2A
DATE: 01/04/16 PAY ITEM REVISED, PAY ITEM (BENCH) ADDED AND PAY ITEM FOOTNOTE ADDED	REVISIONS DATE DESCRIPTION	1/15/2016 11:23:02 AM K:\SAR_Roadway\048320.002 Central Ave Improvements\04832000200.Roadway\CESSRDO		

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS												TOTAL THIS SHEET		GRAND TOTAL				
			T-3			PLAN			FINAL			PLAN			FINAL			PLAN	FINAL	PLAN	FINAL
			PLAN	FINAL	Δ	PLAN	FINAL	Δ	PLAN	FINAL	Δ	PLAN	FINAL	Δ	PLAN	FINAL	Δ	PLAN	FINAL	Δ	
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	530													530					
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	555													555					
632-7-1	SIGNAL CABLE-NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	PI	1													1					
635-2-11	PULL & SPLICE BOX, F&I, 13"x24" COVER SIZE	EA	14													14					
641-2-70	PRESTRESSED CONCRETE POLE, SHALLOW POLE REMOVAL-POLE 30' AND GREATER	EA	1													1					
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	EA	4													4					
646-1-60	ALUMINUM SIGNALS POLE, REMOVE	EA	2													2					
649-31-102	MAST ARM, F&I, WIND SPEED-150, SINGLE ARM, W/O LUMINAIRE-46	EA	1													1					
649-31-108	MAST ARM, F&I, WIND SPEED-150, SINGLE ARM, WITH LUMINAIRE-60	EA	1													1					
649-36-300	MAST ARM, REMOVE SHALLOW FOUNDATION, BOLT ON ATTACHMENT	EA	2													2					
650-1-14	TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY	AS	6													6					
650-1-18	TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 5 SECTION STRAIGHT, 1 WAY	AS	1													1					
650-1-70	TRAFFIC SIGNAL, RELOCATE	AS	2													2					
653-1-12	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 2 WAY	AS	2													2					
660-1-101	INDUCTIVE LOOP DETECTOR	EA	1													1					
660-2-102	LOOP ASSEMBLY, F&I, TYPE B	AS	12													12					
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	AS	9													9					
665-1-11	PEDESTRIAN DETECTOR, FURNISH & INSTALL, STANDARD	EA	4													4					
670-5-400	TRAFFIC CONTROLLER ASSEMBLY, MODIFY	AS	1													1					
682-1-400	ITS CCTV CAMERA, RELOCATE	EA	1													1					
700-5-22	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, 12-18 SF	EA	2													2					

SIGNALIZATION GENERAL NOTES


GENERAL :

- THE SIGNALIZATION PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION'S DESIGN STANDARDS, DATED 2015. GOVERNING SPECIFICATIONS ARE THE STATE OF FLORIDA, 2015 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND COLLIER COUNTY'S TRAFFIC OPERATIONS SIGNALIZATION "TECHNICAL SPECIAL PROVISIONS" DATED, MAY, 2015.

PAY ITEM NOTES :

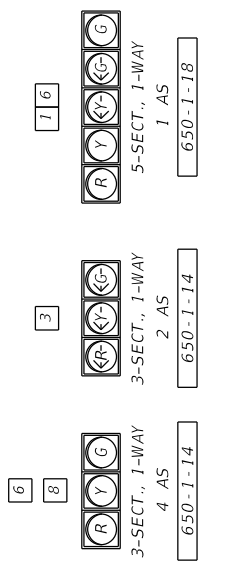
- PAY ITEM 682-1-40: THE CONTRACT UNIT PRICE FOR THIS ITEM SHALL INCLUDE REMOVAL FROM THE EXISTING SUPPORT, RELOCATION AND INSTALLATION ONTO THE NEW SUPPORT, RECONNECTING THE ELECTRICAL WIRING AND FIBER OPTIC COMMUNICATION CABLES, TESTING OF ALL MATERIALS AND EQUIPMENT, AND FOR ALL TOOLS, LABOR, EQUIPMENT, HARDWARE, SUPPLIES, SUPPORT, PERSONNEL TRAINING, SHOP DRAWINGS, AND INCIDENTALS NECESSARY FOR A COMPLETE AND ACCEPTED INSTALLATION.

REVISIONS		DESCRIPTION	DATE
DATE	DESCRIPTION		
01/15/16	Δ	REVISED THE DETECTORS, ADDED MORE PED FEATURES, AND UPGRADED SEVERAL CONDUIT RUNS TO 630-2-12.	

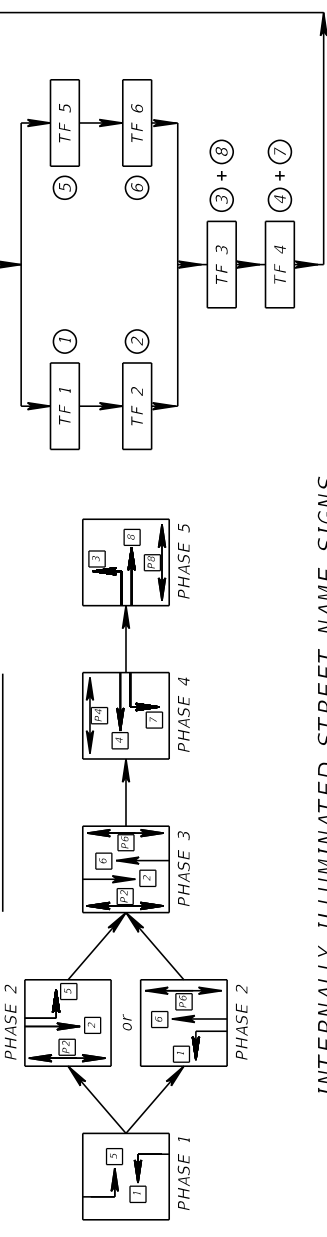
CITY OF NAPLES		SHEET NO.
CENTRAL AVENUE		
		T-2

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\\sarf001\FL_SARI\SAR_Roadway\04832002\Central Ave Improvements\0483200200\signals\TAB05G01.DGN

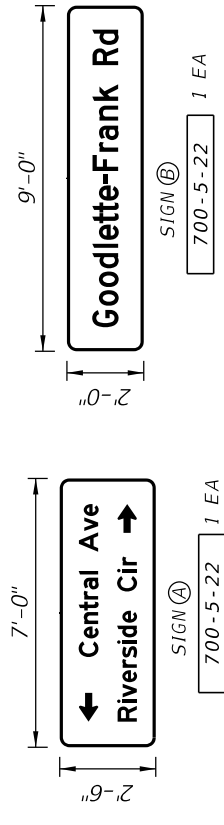
SIGNAL DISPLAY DETAILS



S.O.P. 9 MODIFIED



INTERNALLY ILLUMINATED STREET NAME SIGNS
SINGLE SIDED, RIGID MOUNTED



CONTROLLER OPERATION NOTES

1. THE MAJOR STREET IS GOODLETTE-FRANK ROAD (C.R. 851) (45 MPH) AND THE MINOR STREET IS THE CENTRAL AVENUE (30 MPH).
2. S.O.P. 9 MODIFIED AS SHOWN.
3. FLASHING OPERATION: 2 AND 6 YELLOW; 3, 4, AND 8 RED.
4. CONCURRENT/ACTUATED PEDESTRIAN PHASES P2 (MOVEMENT 2), P4 (MOVEMENT 4), P6 (MOVEMENT 6), AND P8 (MOVEMENT 8).
5. FOR PAVEMENT MARKINGS, SEE SIGNING AND MARKING SHEET. ALL PROPOSED DIRECTIONAL ARROWS SHALL BE INSTALLED AFTER THE PROPOSED SIGNAL LOOP ASSEMBLIES ARE INSTALLED.

DETECTORS FOR LOOPS

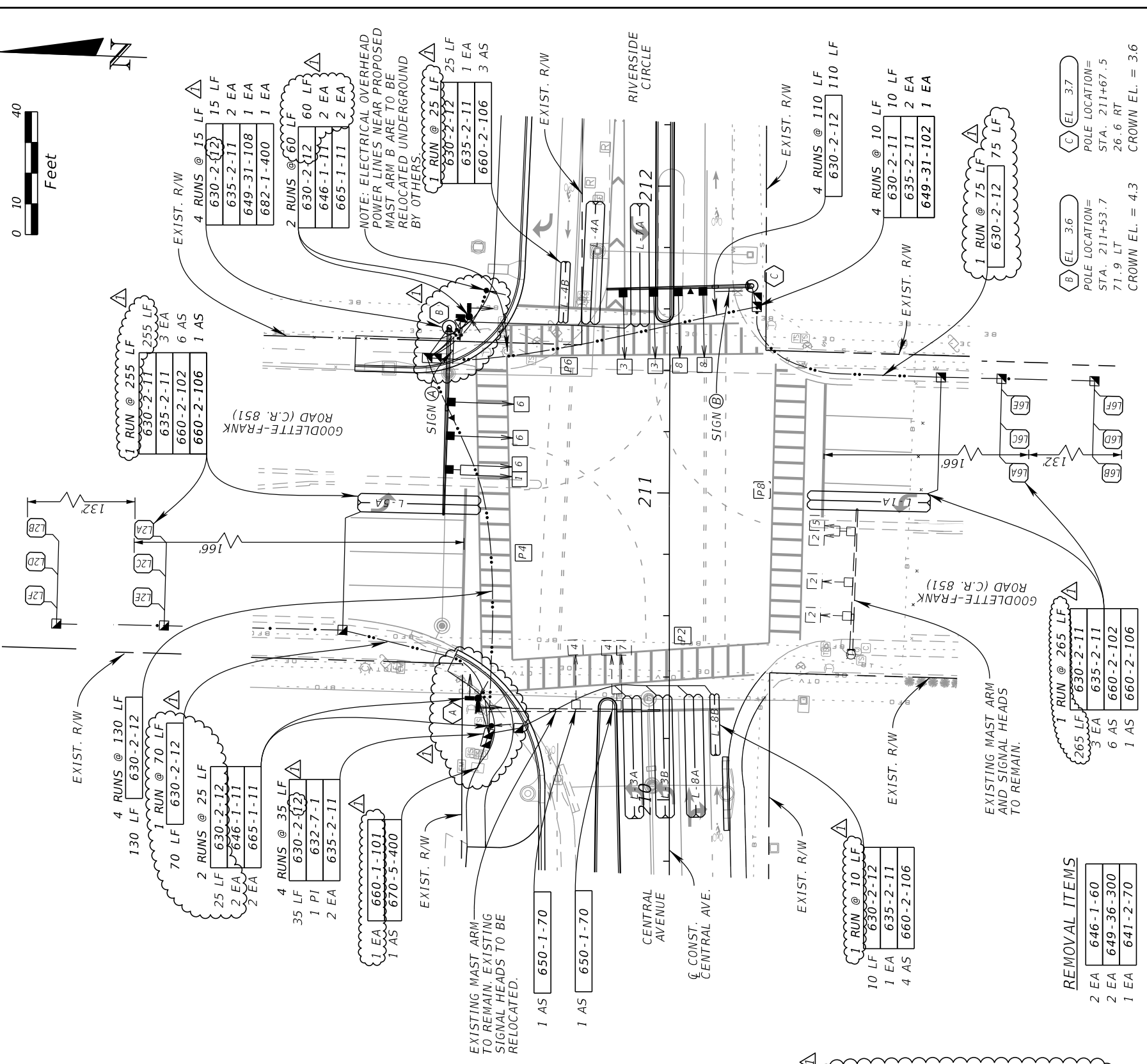
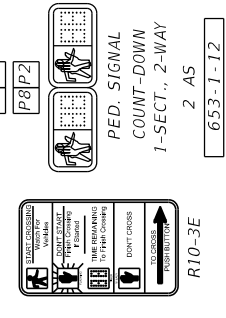
LOOP	NO. OF LOOPS	NO. OF NEW DETS.	NO. OF EX. DETS.
L-1A, 5A	2	--	1
L-2A, 2B	2	--	1
L-2C, 2D	2	--	1
L-2E, 2F	2	--	1
L-3A, 3B	2	--	1
L-4A, 4B	2	--	1
L-6A, 6B	2	--	1
L-6C, 6D	2	--	1
L-6E, 6F	2	--	1
L-7A	1	1	--
L-8A, 8B	1	--	1

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

CONTROLLER TIMINGS

TIMING FUNCTION	1	2	3	4	5	6
MOVEMENT NUMBER	1	2	3, 8	4, 7	5	6
MINIMUM GREEN	7	10	7	7	10	10
EXTENSION	3	3	3	3	3	3
MAXIMUM GREEN 1	20	40	29	33	20	40
MAXIMUM GREEN 2	30	50	30	33	30	50
YELLOW CLEARANCE	4.8	4.8	4.0	4.0	4.8	4.8
ALL RED	2.1	2.1	2.9	2.8	2.1	2.1
PEDESTRIAN WALK	-	7	7	7	-	7
PED. CLEARANCE	-	21	22	26	-	19
RECALL	--	MIN	--	--	--	MIN

PEDESTRIAN DISPLAY DETAILS



Kimley»Horn
RONALD C. HIDERBRAND, P.E.
P.E. LICENSE NUMBER: 4926
177 MAIN STREET, SUITE 200
NAPLES, FL 34102
PHONE (941) 319-6600
CERTIFICATE OF AUTHORIZATION: 00000696

SIGNALIZATION PLAN

CITY OF NAPLES
CENTRAL AVENUE

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION
01/15/16	REVISOR: THE DETECTORS, ADDED MORE PED FEATURES, AND UPGRADED SEVERAL CONDUIT RUNS TO 630-2-12.		

SHEET NO. T-3

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Addendum 3 - Exhibit D - REVISED Opinion of Probable Construction Cost

OPINION OF PROBABLE CONSTRUCTION COST (Bid Plans December 2015)

CENTRAL AVE IMPROVEMENTS					
ITEM NO.	DESCRIPTION	UNIT	QTY	UNIT PRICE	AMOUNT
Roadway					
0101 1	MOBILIZATION	LS	1	\$ 229,692.00	\$ 229,692.00
0102 1	MAINTENANCE OF TRAFFIC	LS	1	\$ 229,692.00	\$ 229,692.00
0104 10 3	SEDIMENT BARRIER	LF	1885	\$ 1.06	\$ 1,998.10
0104 18	INLET PROTECTION SYSTEM	EA	44	\$ 93.60	\$ 4,118.40
0110 1 1	CLEARING & GRUBBING	AC	3.72	\$ 14,180.30	\$ 52,750.72
0110 4	REMOVAL OF EXISTING CONCRETE PAVEMENT	SY	2230	\$ 21.19	\$ 47,253.70
0120 1	REGULAR EXCAVATION	CY	3908	\$ 4.32	\$ 16,882.56
0120 6	EMBANKMENT	CY	813	\$ 10.29	\$ 8,365.77
0160 4	TYPE B STABILIZATION	SY	7547	\$ 4.26	\$ 32,150.22
0162 1 11	PREPARED SOIL LAYER, FINISH SOIL, 6"	SY	533	\$ 0.78	\$ 415.74
0210 1 8	REWORKING LIMESTONE BASE, 4"	SY	155	\$ 8.00	\$ 1,240.00
0285709	OPTIONAL BASE, BASE GROUP 09	SY	5104	\$ 23.73	\$ 121,117.92
0327 70 5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	SY	11693	\$ 4.76	\$ 55,658.68
0334 1 12	SUPERPAVE ASPHALTIC CONC, TRAFFIC B	TN	1205.4	\$ 95.88	\$ 115,573.75
0334 1 12	SUPERPAVE ASPHALTIC CONC, TRAFFIC B (OVERBUILD)	TN	470.6	\$ 95.88	\$ 45,121.13
0337 7 42	ASPH CONC FC, TRAFFIC B, FC-9.5, PG 76-22	TN	929.2	\$ 123.34	\$ 114,607.53
0339 1	MISC. ASPHALT PAVEMENT	TN	8.25	\$ 147.17	\$ 1,214.15
0425 1201	INLETS, CURB, TYPE 9, <10	EA	2	\$ 3,124.08	\$ 6,248.16
0425 1203	INLETS, CURB, TYPE 9, J BOT, <10	EA	1	\$ 5,579.36	\$ 5,579.36
0425 1351	INLETS, CURB, TYPE P-5, <10	EA	7	\$ 4,254.44	\$ 29,781.08
0425 1361	INLETS, CURB, TYPE P-6, <10	EA	7	\$ 4,659.70	\$ 32,617.90
0425 1362	INLETS, CURB, TYPE P-6, >10	EA	1	\$ 6,122.39	\$ 6,122.39
0425 1451	INLETS, CURB, TYPE J-5, <10	EA	1	\$ 6,850.44	\$ 6,850.44
0425 1461	INLETS, CURB, TYPE J-6, <10	EA	1	\$ 7,246.66	\$ 7,246.66
0425 1521	INLETS, DT BOT, TYPE C, <10'	EA	8	\$ 2,843.71	\$ 22,749.68
0425 1910	INLETS, CLOSED FLUME	EA	6	\$ 4,223.87	\$ 25,343.22
0425 2 41	MANHOLE, P-7, <10'	EA	8	\$ 3,926.67	\$ 31,413.36
0425 2 43	MANHOLE, P-7, PARTIAL	EA	4	\$ 2,171.76	\$ 8,687.04
0425 2 61	MANHOLE, P-8 <10	EA	1	\$ 3,276.96	\$ 3,276.96
0425 2 71	MANHOLE, J-7, <10'	EA	3	\$ 5,540.76	\$ 16,622.28
0425 2 73	MANHOLE, J-7, PARTIAL	EA	1	\$ 3,315.83	\$ 3,315.83
0425 2 93	MANHOLE, J-8, PARTIAL	EA	1	\$ 4,286.49	\$ 4,286.49
0430175118	PIPE CULV, OPT. MATL, ROUND 18" S/CD	LF	1791	\$ 74.39	\$ 133,232.49
0430175124	PIPE CULV, OPT. MATL, ROUND 24" S/CD	LF	220	\$ 79.27	\$ 17,439.40
0430175130	PIPE CULV, OPT. MATL, ROUND, 30" S/CD	LF	1026	\$ 90.55	\$ 92,904.30
0430175218	PIPE CULV, OPT. MATL, OTHER 18" S/CD	LF	398	\$ 66.31	\$ 26,391.38
0440 1 10	UNDERDRAIN, TYPE I	LF	591	\$ 23.66	\$ 13,983.06
0520 1 10	CONCRETE CURB & GUTTER, TYPE F	LF	5915	\$ 18.21	\$ 107,712.15
0520 2 2	CONCRETE CURB, TYPE B	LF	426	\$ 23.75	\$ 10,115.13
0520 2 4	CONCRETE CURB, TYPE D	LF	4320	\$ 14.96	\$ 64,627.20
0520 2 8	CONCRETE CURB, TYPE RA	LF	302	\$ 33.36	\$ 10,068.05
0522 1	SIDEWALK CONC, 4" THICK	SY	3496	\$ 35.10	\$ 122,709.60
0522 2	SIDEWALK CONC, 6" THICK	SY	176	\$ 45.93	\$ 8,083.68
0526 1 1-A	PAVERS, ARCHITECTURAL, TRUCK APRON	SY	250	\$ 80.00	\$ 20,016.00
0526 1 1-B	PAVERS, ARCHITECTURAL, SPLITTER ISLANDS	SY	135	\$ 80.00	\$ 10,800.00
0526 1 1-C	PERVIOUS PAVERS, ARCHITECTURAL, PARKING	SY	557	\$ 90.00	\$ 50,130.00
550 10 228	FENCING, TYPE B, 5.1-6.0, RESET EXISTING	LF	280	\$ 15.00	\$ 4,200.00
550 60 223	FENCE GATE, TYPE B, DOUBLE, 12.1-18.0' OPENING	EA	1	\$ 1,100.00	\$ 1,100.00
0527 2	DETECTABLE WARNINGS	SF	328	\$ 31.26	\$ 10,253.28
0570 1 2	PERFORMANCE TURF, SOD	SY	533	\$ 2.03	\$ 1,081.99
BIO-S.	BIOSWALES (WATER QUALITY SYSTEM)	EA	6	\$ 20,000.00	\$ 120,000.00

**OPINION OF PROBABLE CONSTRUCTION COST
(Bid Plans December 2015)**

CENTRAL AVE IMPROVEMENTS					
ITEM NO.	DESCRIPTION	UNIT	QTY	UNIT PRICE	AMOUNT
Signing and Marking					
0523 1 3	PATTERNED PAVEMENT, VEHICULAR AREAS, GREEN BIKE LANE	SY	744	\$ 50.00	\$ 37,200.00
0700 1 11	SINGLE POST SIGN, F&I, LESS THAN 12 SF	AS	39	\$ 326.92	\$ 12,749.88
0700 1 50	SINGLE POST SIGN, RELOCATE	AS	3	\$ 271.70	\$ 815.10
0700 1 60	SINGLE POST SIGN, REMOVE	AS	1	\$ 21.80	\$ 21.80
0706 3	RETRO-REFLECTIVE PAVEMENT MARKERS	EA	142	\$ 3.73	\$ 529.66
0711 11123	THERMOPLASTIC, STD, WHITE, SOLID, 12"	LF	2026	\$ 2.22	\$ 4,497.72
0711 11124	THERMOPLASTIC, STD, WHITE, SOLID, 18"	LF	30	\$ 3.42	\$ 102.60
0711 11125	THERMOPLASTIC, STD, WHITE, SOLID, 24"	LF	2201	\$ 4.45	\$ 9,794.45
0711 11141	THERMOPLASTIC, STD, WHITE, 2-4 DOTTED GUIDELINE / 6-10 DOTTED EXTENSION LINE, 6"	GM	0.769	\$ 2,484.73	\$ 1,910.76
0711 11160	THERMOPLASTIC, STD, WHITE, MESSAGE	EA	8	\$ 128.81	\$ 1,030.48
0711 11170	THERMOPLASTIC, STD, WHITE, ARROW	EA	19	\$ 61.84	\$ 1,174.96
0711 11180	THERMOPLASTIC, STD, WHITE, YIELD LINE	LF	111	\$ 10.79	\$ 1,197.69
0711 11224	THERMOPLASTIC, STD, YELLOW, SOLID, 18"	LF	149	\$ 3.34	\$ 497.66
0711 11241	THERMOPLASTIC, STD, YELLOW, 2-4 DOTTED GUIDELINE / 6-10 DOTTED EXTENSION LINE, 6"	GM	0.129	\$ 1,609.20	\$ 207.59
0711 11421	THERMOPLASTIC, STD, BLUE, SOLID, 6"	LF	56	\$ 1.46	\$ 81.76
0711 14160	THERMOPLASTIC, PREFORMED, WHITE, MESSAGE	EA	22	\$ 237.28	\$ 5,220.16
0711 14170	THERMOPLASTIC, PREFORMED, WHITE, ARROWS	EA	21	\$ 117.58	\$ 2,469.18
0711 16101	THERMOPLASTIC, STD-OTHER SURFACES, WHITE, SOLID, 6"	GM	1.615	\$ 4,045.84	\$ 6,534.03
0711 16102	THERMOPLASTIC, STD-OTHER SURFACES, WHITE, SOLID, 8"	GM	0.047	\$ 5,963.75	\$ 280.30
0711 16131	THERMOPLASTIC, STD-OTHER SURFACES, WHITE, SKIP, 6"	GM	0.030	\$ 1,332.31	\$ 39.97
0711 16201	THERMOPLASTIC, STD-OTHER SURFACES, YELLOW, SOLID, 6"	GM	1.093	\$ 4,085.89	\$ 4,465.88
0711 16202	THERMOPLASTIC, STD-OTHER SURFACES, YELLOW, SOLID, 8"	GM	0.020	\$ 5,212.09	\$ 104.24
Signalization					
0630 2 11	CONDUIT, F&I, OPEN TRENCH	LF	750	\$ 5.67	\$ 4,252.50
0630 2 12	CONDUIT, F&I, DIRECTIONAL BORE	LF	335	\$ 24.37	\$ 8,163.95
0632 7 1	SIGNAL CABLE, FURNISH & INSTALL	PI	1	\$ 8,272.84	\$ 8,272.84
0635 2 11	PULL & SPLICE BOX, F&I, 13"X24" COVER SIZE	EA	14	\$ 547.99	\$ 7,671.86
0641 2 70	PRESTRESSED CONCRETE POLE, SHALLOW POLE REMOVAL, POLE 30' & GREATER	EA	1	\$ 1,960.27	\$ 1,960.27
0646 1 11	ALUMINUM SIGNALS POLE, PEDESTAL	EA	4	\$ 1,058.62	\$ 4,234.48
0646 1 60	ALUMINUM SIGNALS POLE, REMOVE	EA	2	\$ 233.31	\$ 466.62
0649 31102	MAST ARM, F&I, WIND SPEED-150, SINGLE ARM, W/O LUMINAIRE - 46	EA	1	\$ 28,085.05	\$ 28,085.05
0649 31108	MAST ARM, F&I, WIND SPEED-150, SINGLE ARM, WITH LUMINAIRE - 60	EA	1	\$ 37,000.00	\$ 37,000.00
0649 36300	MAST ARM, REMOVE SHALLOW FOUNDATION, BOLT ON ATTACHMENT	EA	2	\$ 2,456.06	\$ 4,912.12
0650 1 14	TRAFFIC SIGNAL, F&I, 3 SECTION, 1 WAY, ALUMINUM	AS	6	\$ 1,012.97	\$ 6,077.82
0650 1 18	TRAFFIC SIGNAL, F&I, 5 SECTION STRAIGHT, 1 WAY, ALUMINUM	AS	1	\$ 1,710.00	\$ 1,710.00
0650 1 70	TRAFFIC SIGNAL, RELOCATE	AS	2	\$ 220.34	\$ 440.68
0653 1 12	PEDESTRIAN SIGNAL, F&I, LED COUNTDOWN, 2 WAY	AS	2	\$ 1,190.37	\$ 2,380.74
0660 2 102	LOOP ASSEMBLY, F&I, TYPE B	AS	12	\$ 664.18	\$ 7,970.16
0660 2 106	LOOP ASSEMBLY, F&I, TYPE F	AS	9	\$ 1,011.30	\$ 9,101.70
0665 1 11	PEDESTRIAN DETECTOR, F&I, STANDARD	EA	4	\$ 204.18	\$ 816.72
0670 5400	TRAFFIC CONTROLLER ASSEMBLY, MODIFY	AS	1	\$ 3,498.67	\$ 3,498.67
0682 1 400	ITS CCTV CAMERA, RELOCATE	EA	1	\$ 2,495.00	\$ 2,495.00
0700 5 22	INTERNALLY ILLUMINATED SIGN, F&I, OVERHEAD MOUNT, 12-18 SF	EA	2	\$ 3,363.93	\$ 6,727.86
Lighting					
0630 2 11	CONDUIT, F&I, OPEN TRENCH	LF	3525	\$ 5.67	\$ 19,986.75
0630 2 12	CONDUIT, F&I, DIRECTIONAL BORE	LF	1505	\$ 24.37	\$ 36,676.85
0635 2 11	PULL & SPLICE BOX, F&I, 13"X24" COVER SIZE	EA	42	\$ 547.99	\$ 23,015.58
0715 1 12	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 8-6	LF	19540	\$ 1.03	\$ 20,126.20
0715 1 13	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 4-2	LF	160	\$ 1.85	\$ 296.00
0715 1 60	LIGHTING CONDUCTORS, REMOVE & DISPOSE, CONTRACTOR OWNS	LF	1395	\$ 0.20	\$ 279.00
0715 7 11	LOAD CENTER, F&I SECONDARY VOLTAGE	EA	1	\$ 12,036.74	\$ 12,036.74
0715 11 118	LUMINAIRE, F&I, ROADWAY, FLOOD	EA	4	\$ 1,190.51	\$ 4,762.04
0715-516-115	LIGHT POLE COMPLETE-SPECIAL DESIGN, F&I, POLE TOP MOUNT, ALUMINUM, CUSTOM HEIGHT	EA	31	\$ 6,450.00	\$ 199,950.00
0715-540-000	LIGHT POLE COMPLETE-SPECIAL DESIGN, RELOCATE	EA	5	\$ 1,750.00	\$ 8,750.00
0715-550-000	LIGHT POLE COMPLETE-SPECIAL DESIGN, REMOVE	EA	3	\$ 303.70	\$ 911.10

**OPINION OF PROBABLE CONSTRUCTION COST
(Bid Plans December 2015)**

CENTRAL AVE IMPROVEMENTS					
ITEM NO.	DESCRIPTION	UNIT	QTY	UNIT PRICE	AMOUNT
Utilities					
1050 11222	2-4.9" PVC Pipe (F&I) - PROPOSED 2" & 4"	LF	125	\$ 69.45	\$ 8,681.25
1050 11223	5-7.9" PVC Pipe (F&I) - PROPOSED 6"	LF	625	\$ 74.17	\$ 46,356.25
1050 11224	8-19.9" PVC Pipe (F&I) - PROPOSED 8", 12", 16", 18"	LF	2010	\$ 85.80	\$ 172,458.00
1050 11424	8-19.9" DI PIPE (F&I) - PROPOSED 8"	LF	80	\$ 88.64	\$ 7,091.20
1050 11324	8-19.9" PE Pipe (F&I) - PROPOSED 10" (Directional Drill)	LF	375	\$ 124.43	\$ 46,661.25
1050 18002	2-4.9" Plug & Out of Service - 2" & 4"	LF	1021	\$ 12.00	\$ 12,252.00
1050 18003	5-7.9" Plug & Out of Service - 6"	LF	1235	\$ 12.44	\$ 15,363.40
1050 18004	8-19.9" Plug & Out of Service - 16"	LF	120	\$ 13.33	\$ 1,599.60
1080 11207	UTILITY FIXTURES, F&I, 2-4.9", LINE STOP	EA	1	\$ 2,544.00	\$ 2,544.00
1080 11307	UTILITY FIXTURES, F&I, 5-7.9", LINE STOP	EA	4	\$ 4,383.13	\$ 17,532.52
1080 11407	UTILITY FIXTURES, F&I, 8-19.9", LINE STOP	EA	3	\$ 5,312.21	\$ 15,936.63
1055 11414	UTILITY FITTING, F&I, DI/CI, ELBOW, 8-19.9"	EA	65	\$ 1,279.75	\$ 83,183.75
1055 11424	UTILITY FITTINGS, F&I, DI/CI, TEE, 8 - 19.9"	EA	17	\$ 1,376.91	\$ 23,407.47
1055 11454	8-19" UTILITY FITTINGS (F&I) PLUG/CAP	EA	2	\$ 712.37	\$ 1,424.74
1080 11404	UTIL FIXT, F&I, 8-19.9", VALVE ASSEMBLY	EA	32	\$ 3,212.59	\$ 102,802.88
1080 11409	UTIL FIXT, F&I, 8-19.9", MECH JONT RESTR	EA	260	\$ 264.24	\$ 68,702.40
1644113 08	FIRE HYDRANT, F&I, STD, 2 HOSE, 1 PUMP, 6"	EA	5	\$ 4,187.06	\$ 20,935.30
-	Long Water Services	EA	8	\$ 1,750.00	\$ 14,000.00
-	Short Water Services	EA	10	\$ 750.00	\$ 7,500.00
Landscaping					
751-38-11	BENCH	EA	3	\$ 1,500.00	\$ 4,500.00
<i>SINGLE TRUNK PALMS - LARGE PLANTS</i>					
580-1-2	ARCHONTOPHOENIX CUNNINGHAMIANA (PICCABEEN PALM)	EA	29	\$ 1,200.00	\$ 34,800.00
580-1-2	ROYSTONEA REGIA (ROYAL PALM)	EA	63	\$ 1,500.00	\$ 94,500.00
580-1-2	ADONIDIA MERRILLII (CHRISTMAS PALM)	EA	45	\$ 700.00	\$ 31,500.00
<i>TREES - LARGE PLANS</i>					
580-1-2	QUERCUS VIRGINIANA 'HIGH RISE' (HIGH RISE SOUTHERN LIVE OAK)	EA	17	\$ 2,000.00	\$ 34,000.00
580-1-2	TAXODIUM DISTICHUM (BALD CYPRESS)	EA	9	\$ 1,050.00	\$ 9,450.00
<i>SHRUBS - SMALL AND LARGE PLANTS</i>					
580-1-2	CHRYSOBALANUS ICACO 'RED TIP' (RED TIP COCOPLUM)	EA	232	\$ 45.00	\$ 10,440.00
580-1-1	DIANELLA TASMANICA 'VARIEGATA' (FLAX LILY)	EA	675	\$ 18.00	\$ 12,150.00
580-1-1	CODIAEUM VARIEGATUM 'MAMMEY' (CROTON)	EA	692	\$ 15.00	\$ 10,380.00
580-1-1	SCHEFFLERA ARBORICOLA 'TRINETTE' (VARIEGATED SCHEFFLERA)	EA	505	\$ 11.00	\$ 5,555.00
580-1-1	DURANTA REPANS 'GOLD MOUND' (GOLDEN DEWDROP DURANTA)	EA	101	\$ 15.00	\$ 1,515.00
580-1-1	FICUS MICROCARPA 'GREEN ISLAND' (GREEN ISLAND FICUS)	EA	3019	\$ 15.00	\$ 45,285.00
580-1-1	JUNIPERUS CHINENSIS 'PARSONII' (CHINESE JUNIPER)	EA	488	\$ 13.50	\$ 6,588.00
580-1-1	NEOREGELIA X 'ROYAL BURGANDY' (ROYAL BURGANDY BROMELIAD)	EA	186	\$ 25.00	\$ 4,650.00
<i>ANNUALS</i>					
580-1-1	ANNUALS	EA	308	\$ 7.00	\$ 2,156.00
<i>ORNAMENTAL GRASSES - SMALL PLANTS</i>					
580-1-1	MUHLENBERGIA CAPILLARIS (PINK MUHLY)	EA	503	\$ 5.00	\$ 2,515.00
580-1-1	SPARTINA BAKERI (SAND CORD GRASS)	EA	156	\$ 6.00	\$ 936.00
<i>SOIL AMENDMENTS</i>					
-	BOLD & GOLD	CY	48	\$ 53.00	\$ 2,544.00
Irrigation					
0590 70	IRRIGATION SYSTEM	LS	1	\$ 82,000.00	\$ 82,000.00
CENTRAL AVE IMPROVEMENTS					
SUBTOTAL (DOES NOT INCLUDE MOBILIZATION & MOT)					\$ 3,281,308.72
MOBILIZATION & MOT					\$ 459,384.00
O.P.C. SUBTOTAL					\$ 3,740,692.72
10% Contingency					\$ 374,069.27
ESTIMATED O.P.C. TOTAL					\$ 4,114,761.99

The Engineer has no control over the cost of labor, materials, equipment, or over the Contractor's methods of determining prices or over competitive bidding or market conditions. Opinions of probable costs provided herein are based on the information known to Engineer at this time and represent only the Engineer's judgment as a design professional familiar with the construction industry. The Engineer cannot and does not guarantee that proposals, bids, or actual construction costs will not vary from its opinions of probable costs.