

North Bay Village

Administrative Offices

1666 Kennedy Causeway, Suite 300 North Bay Village, FL 33141

Tel: (305) 756-7171 Fax: (305) 756-7722 Website: www.nbvillage.com

Addendum 2 Issued on September 6, 2016

BID NO. 2016-002 FOR BAYWALK PLAZA AREA DESIGN (SOUTH SIDE ONLY)

Issued by: North Bay Village

Notice to all Bidders:

1) **Question:** Will the engineer provide a SWPP?

Response: SWPP plans were not prepared as they are not required. Per FDEP if you're "disturbing" more than 1 acre then you need to get an NPDES permit. The total project area is approximately 0.2 acres. The contractor still needs to exercise best management practices during construction so as to not allow debris or turbid runoff to make its way into the adjacent water body or into the City's drainage system.

2) Question: Sheet C-400-2" Irrigation Line Profile B detail shows a proposed oval concrete storm pipe. Is this part of the south side improvements?

Response: The pipe reflected on the profile is not proposed by Kimley-Horn. It is labeled as "By Others" and therefore not part of the plans prepared by Kimley-Horn and not part of the work to be done by the contractor as part of the south side improvements.

3) Question: Have geotechnical investigations been done and can a geotechnical report be provided?

Response: A geotechnical report is attached.

MANDATORY.

Recipient Signature: Print Name: Company: Date:

PERCOLATION TEST REPORT

CLIENT: Kimley Horn

1221 Brickell Avenue, Suite 400

Miami, Florida 33131

DATE: July 1, 2015 JOB No.: P-150780

Project:	Baywalk Plazas Project
Location:	NE 79 Street and Bayshore Drive, Miami, Florida

P	ERCOLAT	TION TEST RESULTS
Test Number (No) (u)	1 1	SOIL CONDITIONS
Test Hole Diameter (d) (ft)	0.5	0.0' - 8.0': Sand with gravel
Depth to Water Table (H ₂) (ft)	9.5	8.0' - 15.0': Sand
Saturated Depth (Ds) (ft)	5.5	
"Stabilized" Flow Rate (Q) (c.f.s.)	6.67E-02	
Hydraulic Conductivity (K)	4.31E-04	

$$K = \frac{4Q}{\pi d (2H_2^2 + 4H_2D_s + H_2d)}$$

Per S.F.W.M.D. Permitting Information Manual (Vol IV - May, 2004)" Usual Open-Hole Test"

Comments: Please note: "Soil Conditions" listed above are representative of material encountered in test hole only.

In no way whatsoever shall any assumptions of soil conditions outside the test hole area be made based on the soil conditions outlined in this report.

V.M.B. Venkatesan 1/10/1/ Professional Engineer No. 63107 State of Florida

PERCOLATION TEST REPORT

CLIENT: Kimley Horn

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DATE: July 1, 2015 JOB No.: P-150780

Project: Baywalk Plazas Project	
Location: NE 79 Street and Bayshore Drive, Miami, Florida	

P	ERCOLAT	TION TEST RESULTS
Test Number (No) (u)	2	SOIL CONDITIONS
Test Hole Diameter (d) (ft)	0.5	0.0' - 8.0': Sand with gravel, some shells
Depth to Water Table (H ₂) (ft)	8.75	8.0' - 15.0': Sand
Saturated Depth (Ds) (ft)	6.25	
"Stabilized" Flow Rate (Q) (c.f.s.)	6.40E-02	
Hydraulic Conductivity (K)	4.33E-04	

$$K = \frac{4Q}{\pi d (2H_2^2 + 4H_2D_s + H_2d)}$$

Per S.F.W.M.D. Permitting Information Manual (Vol IV - May, 2004)" Usual Open-Hole Test"

Comments: Please note: "Soil Conditions" listed above are representative of material encountered in test hole only.

In no way whatsoever shall any assumptions of soil conditions outside the test hole area be made based on the soil conditions outlined in this report.

V.M.B. Venkatesan 7/16/15
Professional Engineer No. 63107
State of Florida

Soil Percolation Test Location Sketch





REPORT OF SUBSURFACE SOIL EXPLORATION GEOTECHNICAL EVALUATION AND RECOMMENDATIONS

BAYWALK PLAZAS PROJECT: NE 79th STREET & BAYSHORE COURT MIAMI, FLORIDA

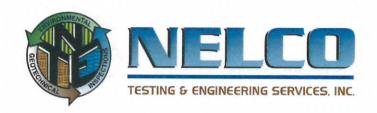
JULY 2015



Prepared for:

KIMLEY HORN 1221 BRICKELL AVENUE, SUITE 400 MIAMI, FLORIDA 33131

NELCO TESTING AND ENGINEERING SERVICES, INC. 13370 SW 131st Street, Suite 105 Miami, Florida 33186



July 14th, 2015

Kimley Horn 1221 Brickell Avenue, Suite 400 Miami, Florida 33131

Reference:

Report of Subsurface Soil Exploration and Recommendations

Evaluation of Subsurface Conditions

For the Proposed Construction:

Baywalk Plazas Project

NE 79th Street & Bayshore Court

Miami, Florida

NTES Project Number: B-150780

Dear Sirs,

Following please find the report of subsurface soil explorations and geotechnical evaluation for the above referenced property. Test Borings and soil sampling took place on July 1st, 2015 using procedures in general accordance with ASTM D-1586, the Standard Penetration Test. This report presents our findings, data, and recommendations.

We appreciate this opportunity to assist you in this project. If you have any questions or comments, please call us at (305) 259-9779.

Respectfully Submitted, - **NELCO Testing and Engineering Services, Inc.**

V.M.B Venkateşan 7/14/15
Professional Engineer No. 63107

State of Florida

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Subsurface Soil Exploration and Recommendations
For
Baywalk Plazas Project
NE 79th Street & Bayshore Court
Miami, Florida

INTRODUCTION

The purpose of this sub-surface exploration was to obtain data in order to provide an evaluation of the sub-surface conditions and recommendations for foundation design for support of the proposed construction.

PROJECT INFORMATION

Site plan and construction information was provided by Mr. George Puig of Kimley Horn. At the time of testing, the project area was observed to be vacant. Proposed construction consists of a boardwalk and associated park structures.

SUB-SURFACE CONDITIONS

Sub-surface exploration consisted of two (2) Standard Penetration Test Boring conducted conforming to the guidelines as set forth in ASTM D-1586.

Testing was performed July 1st, 2015. A review of the Test Boring Reports generally indicates that the site is consists of various layers of sand, sand with gravel and sand with shells throughout the maximum explored depth of fifteen (15) feet below existing grade.

Please note that soft soils have been encountered at approximate depths of 5.0 to 8.0 feet below existing grades. As a result these soils will need to be removed and replaced with controlled/engineered fill material as specified herein.

Groundwater at the time of testing was encountered at approximate depths of 9.0 feet below existing grade.

Please refer to the enclosed appendices for location, classification, and stratification information.

FOUNDATION RECOMMENDATIONS

- 1. Remove any vegetation, organic material and soil within building areas plus five (5) feet outside the building footprint, down to an approximate depth of 8.0 feet below existing grade. The area under footings, foundations, and concrete slabs on grade shall have all vegetation, stumps, roots, and foreign materials removed prior to placement of fill.
- 2. Compact the cleared area to a minimum compaction of 95 percent of the dry soil density as determined by the Modified Proctor Test ASTM D-1557.
- 3. Fill and compact the cleared areas in lifts not greater than 12 inches of compacted thickness to elevate to the required grade. Fill material for areas in support of footings is to be a mixture of limerock (minimum LBR Value 40) and sand, free of vegetation, organic material, construction debris, and large rocks. Fill material for slab on grade areas may be clean sand, filled and compacted in lifts not greater than 12 inches of loose material. The maximum size of fill material (rocks) within 12 inches below the floor slab shall be no more than 3 inches in diameter.
- 4. All fill material shall be inorganic containing no more than 5% by weight organic material. Silt-size fine particulates (material passing the No. 200 Sieve) in fill material shall be limited to less than 10% by weight.
- 5. Compact <u>each lift</u> of fill material and <u>excavated footings</u> to a minimum compaction of 95 percent of the dry soil density as determined by the Modified Proctor Test ASTM D-1557 prior to placement of any additional fill required. Prior to compaction, the moisture content of each lift of fill material shall be adjusted to within plus/minus 2 percent of the optimum moisture as determined by the Modified Proctor Test – ASTM D-1557.
- 6. Compaction of building site shall be verified by means of one Field Density Test for each 2500 square feet or fraction thereof for each lift of compacted soil for building pad or slab area. One Field Density Test will also be required for every 50 linear feet of excavated spread footings, and every isolated footing excavation. Field density tests shall be performed as per ASTM D-2922.
- 7. All Geotechnical work must be performed under the supervision of our geotechnical engineer or one of his representatives, in order to verify compliance with our specifications.

SOIL BEARING CAPACITY FOR FOUNDATIONS

Our observations, exploration, and evaluation, supplemented by a review of sub-soil profile developed from the soil engineering Standard Penetration Test, indicate that the soils found, after improvements as specified, will be suitable for supporting foundations proportioned for a maximum allowable bearing stress of 3000 pounds per square foot, based on total load.

ANTICIPATED SETTLEMENT

Provided that foundations and soils (existing and fill material), are engineered and constructed in accordance with our recommendations and specifications the maximum total foundation settlement is expected to be less than 1 inch. Differential settlement between adjacent foundations is expected to be ½ of total settlement.

SOIL EROSION

The possibility exists for erosion to occur on soils providing structural support for any proposed or existing footings/foundations. This should be considered and addressed during the design and construction process for both existing soil and structurally placed fill material in support of any footings/foundations. This geotechnical report does not address this condition, its possibility of occurring, or its prevention.

REPORT LIMITATIONS

The recommendations submitted are based on the available subsurface information obtained by Nelco Testing and Engineering Services, Inc. (NTES) and design details provided by Kimley Horn for the proposed project. If there are any revisions to the nature, design or location of proposed structures, NTES should be notified immediately to determine if changes in recommendations are required. If NTES is not retained to perform these functions, NTES will not be responsible for the impact of those conditions of the project.

The geotechnical engineer warrants that the findings, recommendations, specifications, or professional advice contained herein have been made in accordance with ASTM specifications, and generally accepted professional geotechnical engineering practices in the local area. No other warranties are implied or expressed. Evaluations expressed in this report are based on field observations and data collected during exploration. Variations throughout the sub-surface profile may exist between designated boring locations, and in inaccessible areas with existing structures. These may not become evident until construction operations have commenced. Should any variations become evident, NELCO Testing and Engineering Services, Inc. must be notified. A reevaluation of the information and professional opinions expressed in this report may be necessary.

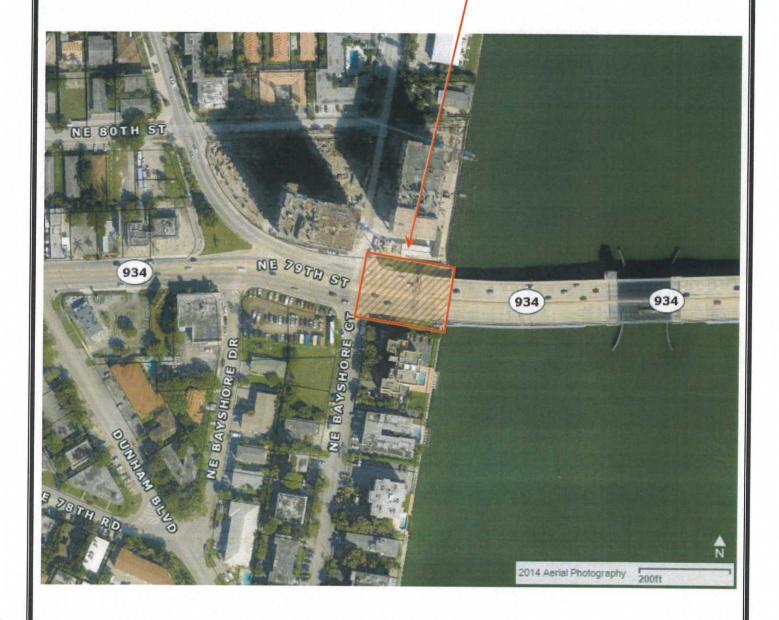
Please note analysis and recommendations mentioned in this report are obtained from the borings performed at the indicated locations on the "Soil Boring Test Location Sketch" included in this report. Local variations outside of the vertical reach of the boring locations may be encountered. Descriptions represent our interpretation of the subsurface data and observations at the specific boring locations, on the date tested.

This geotechnical report has been prepared by NTES for the intended use of Kimley Horn and the specific application to the named project as described. Any third party use of this report should be conducted with the expressed written permission of NTES.

APPENDIX A

- Project Location Map
- Standard Penetration Test Boring Location Sketch

PROJECT SITE



PROJECT LOCATION MAP

BAY WALK PLAZAS PROJECT NE 79^{th} STREET & BAYSHORE COURT, MIAMI, FLORIDA





Soil Boring Test Location Sketch







APPENDIX B

• Standard Penetration Test Boring Logs



TEST BORING LOG

Client: Kimley Horn

Project: Baywalk Plazas Project

Project Location: NE 79 Street & Bayshore Court, Miami, Florida

Date: July 1, 2015

Job Number: B-150780

Test Boring Number: 1

	P					SAN	APLE		Standard
_	r Lev	lo	Strata Name	Description	er		ow	ne	Penetration Test N-value
Depth	Water Level	Symbol			Number	6"	6"	N-Value	Blows/ft 10 30 50 70 90
0-		08	Sand with some gravel	Brown (with some limestone gravel)		X	11		
0- 1- 2- 3- 4- 5- 6- 7- 8- 9-		3000			1	9	5	20	
3-		083				6	9		
4-		0 8 0 0			2	12	10	21	
5-		989			2	7	4	. 0	
6					3	4	2	8	
7-	015	\$. C.3			4	0	0	2	
8-	July 1, 2015	3.53	0. 1	Tan		2	6	2	
9-	<u>-</u>		Sand	Tan	5	8	9	15	1
10	1					6	5	13	
11-					6	11	10	14	
12		1				4	2	1	
13 =					7	8	16	28	
14=		er-				12	19		
15=			End of Boring		8	11	14	X	
16=			End of Borning						
17=									
18=									
18 - 19 - 20 -									
20-									



TEST BORING LOG

Client: Kimley Horn

Project: Baywalk Plazas Project

Project Location: NE 79 Street & Bayshore Court, Miami, Florida

Date: July 1, 2015

Job Number: B-150780

Test Boring Number: 2

	el						APLE	3	Standard
	Water Level						low		Penetration Test
th.	ter l	oqu	Strata Name	Description	lber	Co	ount	alue	N-value Blows/ft
Depth	Wal	Symbol			Number	6"	6"	N-Value	10 30 50 70 90
0-			Sand	Brown					
1-			Sand with trace gravel	Brown (with trace limestone gravel)	1	X	9		
2-			Sand Will duce glaver		1	5	11	14	
3-						18	13		
4					2	10	9	23	
5						5	7		
1 - 2 - 3 - 4 - 5 - 5 - 6 - 7 - 7 - 8 - 9 - 10 - 11 - 11 - 11 - 11 - 11 - 11					3	3	0	10	
7	15					0	0		
8	.i √ July 1, 2015				4	0	3	0	
0 =	July		Sand with some shells	Tan (with some shells)		9	14		
10	-				5	10	8	24	7
111			Sand	Tan		6	5		
12=					6	6	4	11	
13						2	11		
14-					7	14	10	25	
15	14000000000					8	6		
16			End of Boring		8			X	
18									
19									
17 - 18 - 19 - 20 - 20 - 17 - 18 - 19 - 19 - 19 - 19 - 19 - 19 - 19									
20-									



BAYWALK PLAZA (SOUTH SIDE ONLY) **CONSTRUCTION PLANS NORTH BAY VILLAGE**



VICINITY MAP

100% CONTRACT DOCUMENTS SUBMITTAL SET 05/09/16



Sheet List Table Sheet Number Sheet Title PAVING & GRADING PLAN C-302 WATER AND IRRIGATION PLA HARDSCAPE DETAILS L-352 LANDSCAPE NOTES LANDSCAPE DETAILS L-500 L-550 LIGHTING PLAN ELECTRICAL FLAN ELECTRICAL PLAN

No.	REVISIONS	DATE	BY
			-
_			_
			_

PROJECT TEAM

1666 KENNEDY CAUSEWAY, 3RD FLOOR NORTH BAY VILLAGE, FLORIDA 33141 CONTACT: RODNEY CARRERO-SANTANA.

MIAMI, FL 33131 TEL: (305) 673-2025 CONTACT: ALBERTO HERRARA, P.E.

LANDSCAPE ARCHITECT KIMLEY-HORN 1221 BRICKELL AVENUE, SUITE 400 TEL: (305) 673-2025 CONTACT: GEORGE PUIG, P.L.A.

STRUCTURAL ENGINEER KIMLEY-HORN

1221 BRICKELL AVENUE, SUITE 400 MIAMI, FL 33131 TEL: (305) 673-2025 CONTACT: NOEL RAMIREZ, P.E.

ELECTRICAL ENGINEER

1920 WEKIVA WAY, SUITE 200 WEST PALM BEACH, FL 33411 TEL: (561) 845-0665

THE SITE CONSTRUCTION STAKEOUT SHALL BE PERFORMED UNDER THE DIRECTION OF A FLORIDA REGISTERED SURVEYOR AUTOCAD FILES WILL BE FURNISHED TO AID IN THE SITE CONSTRUCTION STAKEOUT. ANY DISCREPANCIES FOUND BETWEEN AUTOCAD FILES AND SITE CONSTRUCTION PLANS
SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR CLARIFICATION PRIOR TO THAT STAKEOUT.

LEGEND

Metat Light Pole Guy Wire Utility Power Pole Water Meter Electric Box Sewer Monhole Traffic Sign Colch Basin Drainage Munhole Wood Foore

Dverhead Utility Lines Light Pole Sewer Volve Water Valve Etectric Manhale Telephone Manhole Unknown Manhot

Guard Pale Spot Elevation T.B.M.-Temporary Benchmark

Diameter-Height-Spread

Tree (Species poknown) Palm Tree

Orgamental Tree

ABBREVIATIONS

Property Line Identification Concrete Slob C.5. Monument Line Plat Book

Paga Asphalt Typical F.F.F. Finish Floor Elevation

SECTION 1) DATE OF FIELD SURVEY:

t. The date of completion of original field Survey was on July 16, 2014.

SECTION 2) LEGAL DESCRIPTION:

SURVEYOR'S NOTES:

A parcel of land in Section 9, Township 53 South, Range 42 East, lying and being in Miami-Dade County, Florida, more particularly described as follows:

Beginning at the Easternmost Point of "The Bridgewater, A Condominium" recorded in Official Records Book 25144 Page 1520, of the Public Records of Miami-Dade County, Florida, which said point also lying on the Northerly Right-O-Way line of NE 79 Street Causeway (State Road 934), thence run S42'30'15" along the said Northerly Right-of-Way line of NE 79 Street Causeway (State Road 934), a distance of 42.78 feet to the Point of Curvature of a circular curve to the right having for its elements a radius of 550.48 feet and a central angle of 14"18" 43", thence along the are of said curve for a distance of 137.51 feet; thence run S27'2'2'9", for a distance of 2.84 feet to the back of an existing concrete sidewalk; thence run Northeasterly along the approximate location of said back of existing concrete sidewalk for the following seven (7) courses: thence run N62'44'24", for a distance of 31.01 feet; thence run N53'0'1'4", for a distance of 27.54 feet thence run N63'0'1'4", for a distance of 27.55 feet; thence run N63'0'1'4", for a distance of 37.55 feet; thence run N63'0'1'4", for a distance of 37.55 feet; thence run N63'0'1'4", for a distance of 37.55 feet; thence run N53'0'1'4", for a distance of 37.55 feet; thence run N63'0'3'4", for a distance of 37.55 feet; thence run N53'0'1'4", for a distance of 37.55 feet; thence run N53'0'1'4", for a distance of 37.55 feet; thence run N53'0'1'4", for a distance of 37.55 feet; thence run N53'0'1'4", for a distance of 37.55 feet; thence run N53'0'1'4", for a distance of 37.55 feet; thence run N53'0'1'4", for a distance of 37.55 feet; thence run N53'0'1'4", for a distance of 37.55 feet; thence run N53'0'1'4", for a distance of 37.55 feet; thence run N53'0'1'4", for a distance of 37.55 feet; thence run N53'0'1'4", for a distance of 37.55 feet; thence run N53'0'1'4", for a distance of 37.56 feet; thence run N53'0'1'4", for a distance of 37.56 feet; thence run N53'0'1'4", for a distance of 37.56 feet; thence run N53'0'1'4", for a distance of 37.56 feet; thence run N53'0'1'4", for N55"38"39"E, for a distance of 15.09 feet; thence run N51"26"16"E, for a distance of 15.13 feet; thence departing sold sidewalk, run N4754 35 W, for a distance of 42.00 feet to the Point of Beginning. Containing 3782.04 square feet. O.99 acres more or less by calculations.

A parcet of land in Section 9, Township 53 South, Range 42 East, lying and being in Miomi-Dade County, Florida, more porticularly described as follows: Beginning at the Northernmost Point of "The Grandview Palace, A Condorninium" recorded in Official Records Book 12423 Page 3980, of the Public Records of Miami-Dade County, Florida, which said point also lying on the Southerly Right-of-Way line of NE 79 Street Causeway (State Road 934); thence run S64'47'30'W along the said Southerly Right-of-Way line of NE 79 Street Causeway (State Road 934), a distance of 202.10 feet; thence run N25'12'30'W, ior o distance of 13.65 feet to the back of an axisting concrete sidewalk; thence run Northeosterly along the approximate location of said back of existing concrete sidewalk for the following four (4) courses; thence run N35'54'09'E, for a distance of 44.54 feet; thence run N56'30'19'E, for a distance of 52.07 feet; thence run N56'30'19'E, for a distance of 52.07 feet; thence run N56'31'35'E, for a distance of 39.84 feet to the Point of Beginning. Beginning. Beginning. Containing 4744.39 square leet, 0.11 acres more or less by calculations.

The accuracy obtained by field measurement methods and office calculations of closed geometric figures meets and exceeds the Minimum Technical Standards requirement for Commercial/High Risk area (Linear: 1 foot in 10,000 feet) as defined in Rule 5J-17.051, Florida Administrative Code.

Elevations of well identified features as depicted on the Survey Map were measured to an estimated vertical position accuracy of 1/100 of a foot on hard surfaces and 1/10 of a foot on ground surfaces.

Well identified features as depicted on the Survey Map were measured to an estimated horizontal position accuracy of 1/10 of a foot.

This Map of Survey is intended to be displayed at a scale of One inch equals. Twenty feet or smaller.

SECTION 4) SOURCES OF DATA:

North arrow direction is based on an assumed Meridian.

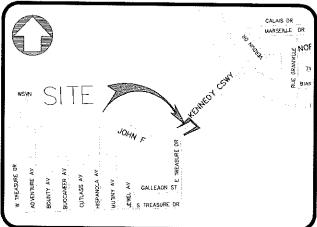
Bearings as shown hereon are based upon the Southerly Right-of-Way Line of N.W. 79th Street Causeway with an assumed bearing of 564*47'30"W, soid line to be considered a well established and monumented line.

This property appears to be located in Flood Zone "AE", Elevations 9.0 & 10.0 as per Federal Emergency Management Agency (FEMA) Community Number 120654 (City of North Bay Village), Map Panel No. 1208600307, Suffix L, Map Revixed Date: September 11, 2006,

Legal Description was furnished by client.

Plot of "FIRST ADDITION TO TREASURE ISLAND", recorded in Plot Book 53, Page 65, Miomi-Dade County Records.

SECTION 9 - TOWNSHIP 53 SOUTH - RANGE 42 EAST



LOCATION MAP

Elevations shown hereon are derived, roter and shown in National Geodetic Vertical Datum 1929 (NGVD).

Benchmark Identification: Miami-Dade County Benchmark: DOT BM Elevation: 15.55 feet (National Geodetic Vertical Datum) Location: 79th Street CSWY Treasure Island & Normandy Isle-Bridge Between.

Dot Brass Disc in Sidewalk in S.W. Corner of Bridge..

SECTION 5) LIMITATIONS:

Since no other information were furnished other than what is cited in the Sources of Dala, the Cliant is hereby advised that there may be legal restrictions on the Subject Property that are not shown on the Survey Map that may be found in the Public Records of Miami-Dada County.

The Surveyor makes no representation as to ownership or possession of the Subject Property by any entity or individual who may oppear of public reports of this County.

No improvements were located, after than those shown. No underground foundations, improvements and/or utilities were located or shown hereon.

SECTION 6) CLIENT INFORMATION:

This Boundary and Topographic Survey was prepared at the insistence of and certified to:

KIMLEY HORN

SECTION 7) SURVEYOR'S CERTIFICATE:

I hereby certify: That this "Boundary on Topographic Survey" and the Survey Map resulting therefrom was performed under my direction and is true and correct to the best of my knowledge and belief and further, that said "Boundary Survey" meets the intent of the applicable provisions of the "Minimum Technical Standards for Land Surveying in the State of Florida", pursuant to Rule 5J-17.051 through \$J-17.052 of the Florida Administrative Code and its implementing law, Chapter 472.027 of the Florida Statutes.

HADDNNE CORP., a Florida Corporation Florida Certificate of Authorization Number LB7097

Raul Izquierdo, PSM Registered Surveyor and Mapper LS6099 State of Florida

NOTICE: Not valid without the signature and original raised seal of a Florida Licensed Surveyor and Mapper. Additions or deletions to Survey Maps by other than the signing party are prohibited without the written consent of the signing party.

Horn Kimley»

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HOH

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SURVE

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A S

© 2015 KIMLE 1221 BRICKELL A PHONE: 305-16 WWW.KIMLE

OCIATES, INC. MIANI, FL. 3313-SOS—673—4682 QODDOROR

EXISTING CONDITIONS

VILLAGE **PLAZA** EPARED BAY

 \checkmark BAYWAL NORTH E

SHEET NUMBER

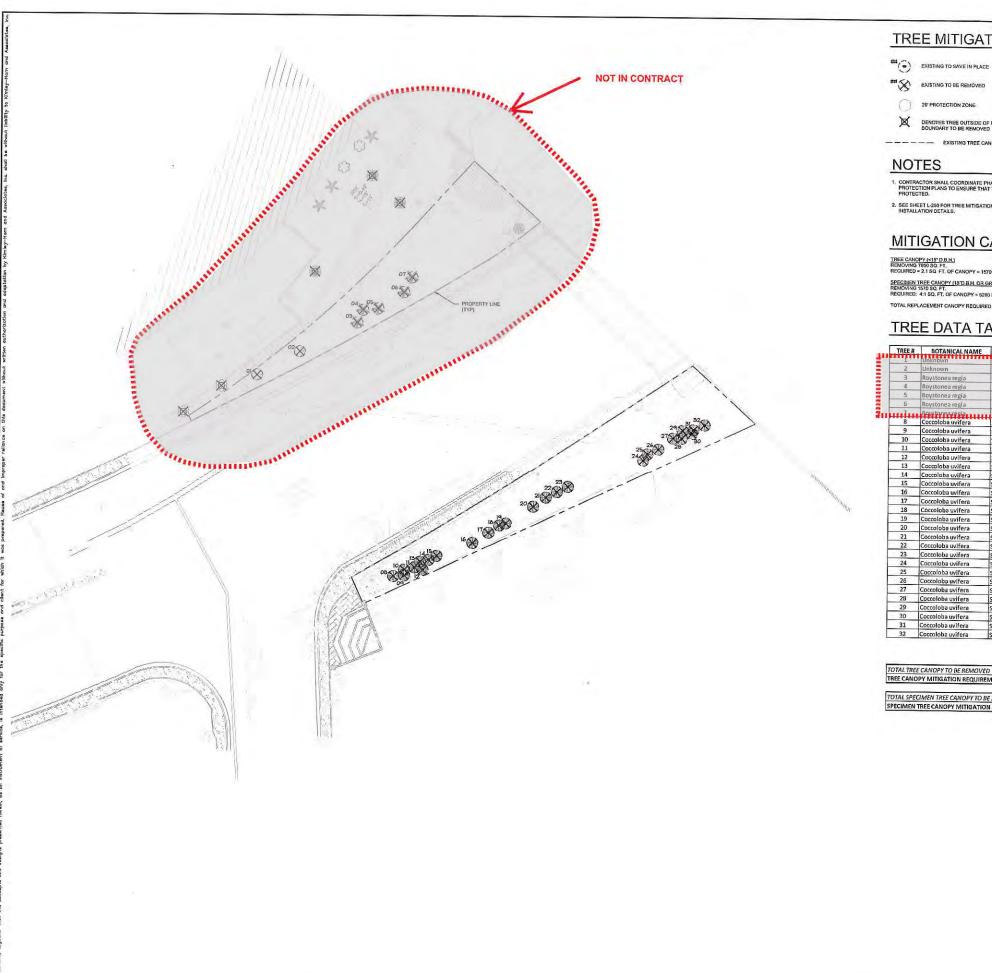
MYOHII BA CUS

Drawny MG

hockock Ri

old Block: FILE 1/1

L-100



TREE MITIGATION LEGEND

DENOTES TREE OUTSIDE OF PROPERTY BOUNDARY TO BE REMOVED

NOTES

SEE SHEET L-250 FOR TREE MITIGATION NOTES AND SHEET L-250 FOR INSTALLATION DETAILS.

MITIGATION CALCULATIONS

TREE CANOPY (<18° D.B.H.)
REMOVING 7850 SQ. FT.
REQUIRED = 2.1 SQ. FT. OF CANOPY = 15700 SQ. FT.

SPECIMEN TREE CANOPY (18*D.B.H. OR GREATER) REMOVING 1570 SQ. FT. REQUIRED: 4:1 SQ. FT. OF CANOPY = 6280 SQ. FT.

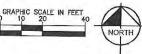
TOTAL REPLACEMENT CANOPY REQUIRED = 21,980 SQ. FT.

TREE DATA TABLE

TREE #		COMMON NAME		SPREAD	DBH	CONDITION	ACTION	MITIGATION	
1	Unknown	Unknown	n/a	n/a	n/a	n/a	REMAIN	(1111111111111111111111111111111111111	<u> </u>
2	Unknown	Unknown	n/a	n/a	n/a	n/a	REMAIN	0	
3	Roystonea regia	Royal Palm	26'	20'	24"	n/a	REMOVE	314	NOT IN
4	Roystonea regia	Royal Palm	26'	20'	24"	n/a	REMOVE	314	CONTRAC
5	Roystonea regia	Royal Palm	26'	20'	24"	n/a	REMOVE	314	2.23.53.53
6	Roystonea regia	Royal Palm	26'	20°	24"	n/a	REMOVE	314	
ulin	Revetorraresia	Payal Palm	26'	20'	minimu		REMOVE	310	
8	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a	REMOVE	314	D.
9	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a	REMOVE	314	
10	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a	REMOVE	314	
11	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a	REMOVE	314	
12	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a	REMOVE	314	
13	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a	REMOVE	314	
14	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a	REMOVE	314	
15	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a	REMOVE	314	
16	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a	REMOVE	314	
17	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a	REMOVE	314	
18	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a	REMOVE	314	
19	Coccoloba uvifera	Sea Grape	25'	201	8"	n/a	REMOVE	314	
20	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a	REMOVE	314	
21	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a	REMOVE	314	
22	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a	REMOVE	314	
23	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a	REMOVE		
24	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a	REMOVE	314 314	
	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a		-	
26	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a	REMOVE	314	
27	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a n/a	REMOVE	314	
28	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a n/a		314	
	Coccoloba uvifera	Sea Grape	25'	20'	8"	n/a n/a	REMOVE	314	
		Sea Grape	25'	20'	8"		REMOVE	314	
		Sea Grape	25'	20'	8"	n/a	REMOVE	314	
		Sea Grape	25'	20'	8"	n/a n/a	REMOVE	314	

TOTAL TREE CANOPY TO BE REMOVED	8,792
TREE CANOPY MITIGATION REQUIREMENTS	17,584
TOTAL SPECIMEN TREE CANOPY TO BE REMOVED SPECIMEN TREE CANOPY MITIGATION REQUIREMENTS	1,570

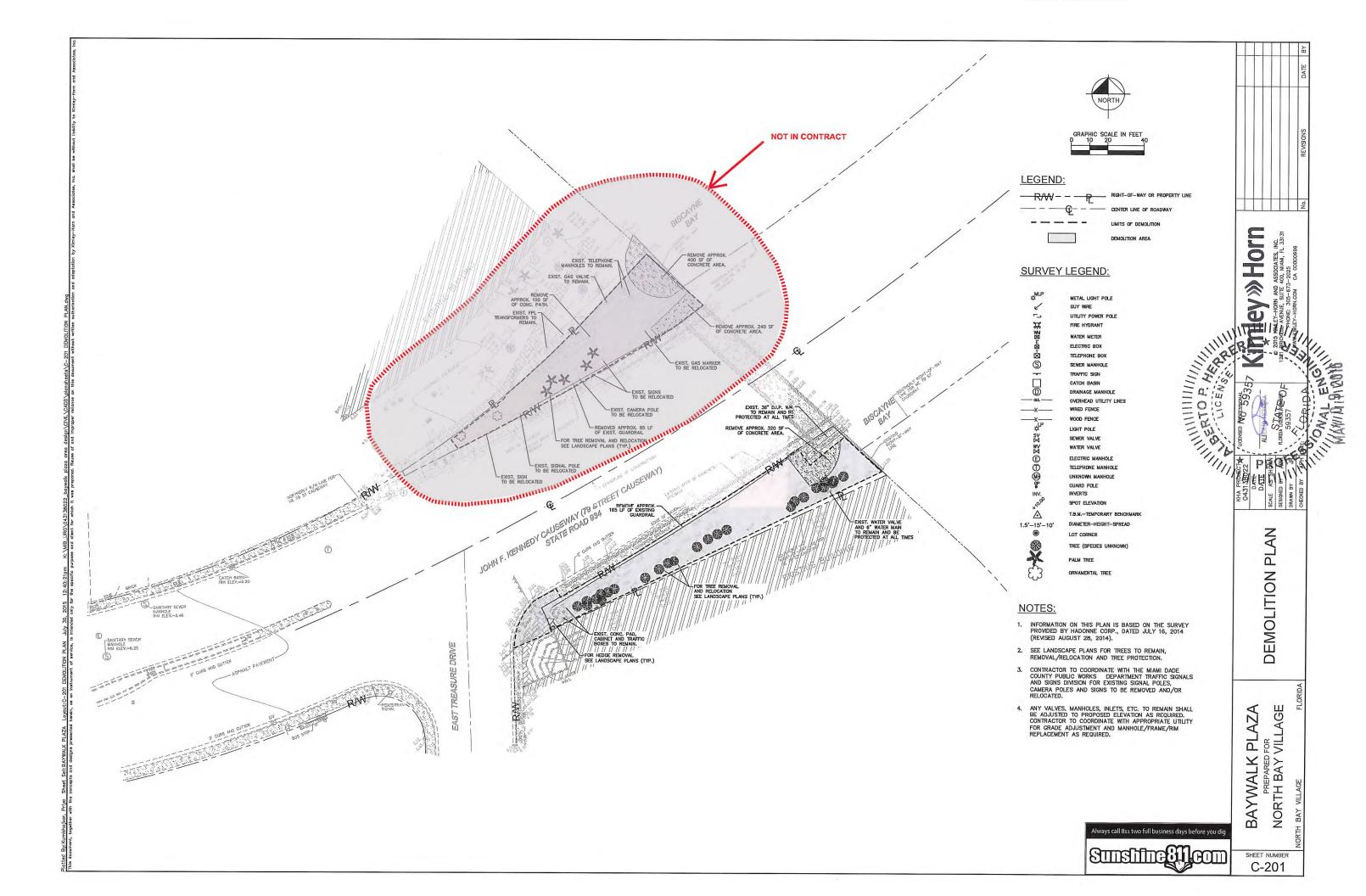




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TREE MITIGATION

BAYWALK PLAZA PREPARED FOR NORTH BAY VILLAGE



TREE MITIGATION SPECIFICATIONS

- CONTRACTOR SHALL ADHEAR TO ALL TREE PROTECTION REQUIREMENTS LISTED IN THESE SPECIFICATIONS AND/OR THOSE LISTED IN THE CITY OR COUNTY ZONNING CODE, TREE PROTECTION (LATEST EDITION), WHICHEVER IS MORE STRINGENT SHALL APPLY.
- 2. CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION PROCEDURES WITH THE PROJECT ARBORIST PRIOR TO BEGINNING WORK
- ANY AREAS SUBJECT TO EROSION MUST BE ADEQUATELY STABILIZED WITH VEGETATION MATERIAL THAT WILL, WITHIN A REASONABLE TIME FRAME, DETER SOIL DISTURBANCE.
- NO SIGNS, BUILDING PERMITS, WIRES OR OTHER ATTACHMENTS OF ANY KIND SHALL BE ATTACHED TO ANY TREE OR PALM, GUY WIRES DESIGNED TO PROTECT TREES ARE EXCLUDED FROM THIS PROHIBITION.
- 5. EXISTING TREE LOCATIONS AND SIZES ARE ESTIMATES AND ARE SASED ON A SURVEY PROVIDED BY THE OWNER SELECTED SURVEYOR.
- CONTRACTOR SHALL COORDINATE TREE REMOVAL WITH PERMITTING AGENCY AND PROJECT ARBORIST PRIOR TO CONSTRUCTION. NO REPSON MAY REMOVE OR CAUSE TO BE REMOVED ANY PROTECTED TREE OR PALM WITHOUT FIRST HAVING PROCURED A PERMIT AS PROVIDED BY THE APPROPRIATE FERMIT TIME AGENCY.
- FOR PROTECTED TREES OR PALMS BEING REMOVED, THE CONTRACTOR MUST GIVE THE PERMITTING AGENCY REASONABLE OPPORTUNITY TO RELOCATE TREES DESIGNATED FOR REMOVAL TO ANOTHER SITE AT THE PERMITTING AGENCY'S EXPENSE
- CONTRACTOR IS RESPONSIBLE FOR POSSESSING ALL REQUIRED APPLICATOR LICENSES, BUSINESS REGISTRATIONS AND INSURANCE, PESTICIDE LABELS, AND MATERIAL USTA SAFETY SHEETS. THE CONTRACTION IS ALSO RESPONSIBLE FOR RAYING ALL SHILL CONTRACTION IS ALSO RESPONSIBLE FOR RAYING ALL SHILL CONTRAMENT MATERIALS AND REQUIRED RESPONSIAL PROFESTION FOR PESTICIDE APPLICATIONS AND ACCORDINAL SHILLS OR REPLAYED AND THE RESPONSIAL PROFESTION FOR ACTUAL TO RESPONSIBLE FOR PESTICIDE TRACTAINENT.
- TREE WELLS OF AN APPROVED DESIGN SHALL BE CONSTRUCTED AROUND ALL TREES TO BE PRESERVED WHEN MORE THAN INCHES OF FILL IS TO BE DEPOSITED WITHIN THE DRIP LINE AREA OF THOSE TREES. COORDINATE WITH PROJECT ARBORIST.
- THE SEQUENCE OF TREE MITIGATION AND PRESERVATION MEASURES IS IMPERATIVE TO THE HEALTH AND SURVIVABILITY OF THE SUBJECT TREES AND SHALL BE COORDINATED WITH THE OWNER SELECTED PROJECT ARBORIST. THE DESIRED SEQUENCE IS OUTLINED BELOY:
- t. TREE PROTECTION FENCING
- b. ROOT PRUNING AND ROOT BARRIERS.
- c. CLEARING.
- d. TREE CANOPY PRIINING
- e. FERTILIZATION
- I. INSECTICIDE
- g. IRRIGATION.

B. TREE PROTECTION FENCING

- PRIOR TO THE FRECTION OF ANY TREE PROTECTION FENCING, ALL FOREIGN SURFACE MATERIAL, TRASH OR DEBRIS SHALL BE REMOVED FROM THE AREA TO BE ENCLOSED BY THE FENCING AFTER ERECTION OF THE FENCING NO SUCH MATERIAL OR LITTER SHALL BE PERMITTED TO REMAIN WITHIN THE BROTECTED AREA.
- TREE PROTECTION FENCING SHALL BE PLACED AROUND ALL PROTECTED TREES TO CREATE A PROTECTIVE ROOT ZONE AVID SHALL REMAIN IN PLACE UNTIL SITE CLEARING, LAND ALTERATION, AND CONSTRUCTION ACTIVITIES ARE COMPLETE.
- MATIVE GROUND COVER AND UNDERSTORY VEGETATION EXISTING WITHIN THE PROTECTED AREA SHALL REMAIN THROUGHOUT COMESTICATION OF THE REMOVED ONLY BY MANUAL LABOR UNILLIBRIAN TOOLS, OR BY OTHER METHODS APPROVED BY THE PROJECT ARROPORTS.
- TREE PROTECTION FENCING TYPES AND LOCATIONS SHALL BE ERECTED AS SHOWN ON THE TREE MITIGATION PLANS AND DETAILS, OR AS REQUESTED BY LOCAL AGENCY.
- 5. FINAL LOCATIONS SHALL BE COORDINATED WITH AND APPROVED BY THE PROJECT ARBORIST
- NO MATERIALS, EQUIPMENT, SPOIL, WASTE OR WASHOUT WATER MAY BE DEPOSITED, STORED, OR PARKED WITHIN 20 FEET OF THE TREE PROTECTION ZONE.
- EROSION CONTROL DEVICES SUCH AS SILT FENCING, DEBRIS BASINS, AND WATER DIVERSION STRUCTURES SHALL BE INSTALLED TO PREVENT SILTATION AND/OR EROSION WITHIN THE TREE PROTECTION ZONE.
- B. CONSTRUCTION ACTIVITY SHALL NOT DESTROY OR IRREVERSIBLY HARM THE ROOT SYSTEM OF PROTECTED TREES. POST HOLES AND TRENCHES LOCATED CLOSE TO PROTECTED TREES SHALL BE ADJUSTED TO AVOID DAMAGE TO MAJOR ROOTS.
- DO NOT INSTALL CONDUIT, DRAIN OR IRRIGATION LINES, OR ANY UTILITY LINE WITHIN THE TREE PROTECTION ZONE WITHOUT THE APPROVAL OF THE PROJECT ARBORIST. IF LINES MUST TRAVERSE THE PROTECTION AREA. THEY SHALL BE TIANNELED OR BORED UNDER THE TREE.
- CONTRACTOR'S ACCESS TO FENCED TREE PROTECTION AREAS WILL BE PERMITTED ONLY WITH APPROVAL OF THE PROJECT ARBORIST.
- EXCAVATION OR GRADING REQUIRED WITHIN THE PROTECTED AREA SHALL BE LIMITED TO THREE (8) INCHES OF CUT OR FILL. COORDINATE WITH PROJECT ARBORIST.
- 12. STRUCTURES AND UNDERGROUND FEATURES TO BE REMOVED WITHIN THE TREE PROTECTION ZONE SHALL BE COORDINATED WITH THE PROJECT ARBORIST.
- TREE PROTECTION FENCING AROUND TREES TO BE RELOCATED SHALL BE BRECTED UNTIL THE TIREE IS READY TO BE RELOCATED AND NEW FENCING SHALL BE ERECTED AT THE TIREES NEW LOCATION AND WILL REMAIN IN PLACE UNTIL ALL CONSTRUCTION ACTIVITIES ARE COMPLETE.
- 14. IF ANY DAMASE TO TREE PROTECTION FENCING SHOULD OCCUR BY ACCIDENT OR NEGLIGENCE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMMEDIATE REPAIRS.
- 15 IF TEMPORARY HAUL OR ACCESS ROADS MUST PASS OVER THE PROTECTED AREA OF TREES TO BE PRESERVED, A ROAD BED OF SIX (6) INCHES OF MULCI OR GRAPEL SHALL BE CREATED TO PROTECT THE SOIL. THE ROAD BED MATERIAL SHALL BE REPLENISHED AS NECESSARY TO IDMINITIAL AS IX (6) INCH ROAD BED AT ALL TWES. CONTRACTOR SHALL REMOVE ALL SUCH MATERIALS FROM THE SITE AS SOON AS TEMPORARY ACCESS IS NO LONGER NECESSARY.
- 16. CONTRACTOR SHALL COORDINATE WITH THE PROJECT ARBORIST PRIOR TO THE REMOVAL OF ALL TREE PROTECTION FENCING

C ROOT PRUNING/TRENCHING

- 1. TRENCHING LOCATIONS SHALL BE APPROVED IN THE FIELD BY THE PROJECT ARBOR ST.
- TRENCHING EQUIPMENT THAT WILL TURN AT HIGH RPMS IS PREFERRED, AND SHALL BE APPROVED BY THE PROJECT ARBORIST APPROVED EQUIPMENT WILL BE USED TO PERFORM ALL ROOT PRUNING OPERATIONS, A MINIMUM DEPTH OF THREE FEST IS REQUIRED.
- 3. INSTALL ROOT BARRIER WHERE DESIGNATED, SEE TREE MITIGATION FLAN AND DETAIL SHEETS.
- 4. THE TRENCH SHALL BE BACKFILLED WITH PREVIOUSLY EXCAVATED SOIL AND COMPACTED IMMEDIATEL.
- 5. TREES TO BE RELOCATED SHALL BE ROOT PRUNED A MINIMUM OF TWELVE (12) WEEKS PRIOR TO TREE RELOCATION
- WHEN THE TREE ROOT ZONE WILL BE DISTURBED, AFFECTED ROOTS MUST BE SEVERED BY CLEAN PRUNING CUTS AT THE POINT WHERE CONSTRUCTION IMPACTS THE ROOTS.

- ANY BRUSH CLEARING REQUIRED WITHIN THE TREE PROTECTION ZONE SHALL BE ACCOMPLISHED WITH I IAND-OPERATED ECUIPMENT.
- CONTRACTOR SHALL CLEAR ALL TREE PROTECTION AREAS OF VINES, SHRUBS, GROUND COVERS, WEEDS, SAPLINGS, AND INVASIVES LISTED ON THE LATEST EDITION OF THE FLORIDA EXOTIC PEST PLANT COUNCIL'S LIST OF INVASIVE SPECIES.
- 3. PROJECT ARBORIST MUST APPROVE METHODS OTHER THAN HAND CLEARING

- A TWO (2) INCH LAYER OF MULCH SHALL BE APPLIED OVER THE SURFACE OF EXPOSED ROOTS OF PROTECTED TREES DURING THE STEP CLEARING PHASE.

TREE PRUNING SPECIFICATIONS SHALL BE DEFINED BASED ON SPECIFIC RECOMMENDATIONS OF THE PROJECT ARBORIST INFORMATION PRESENTED BELOW SHOULD BE USED AS A GUIDELINE.

- 1. CONTRACTOR SHALL VISIT THE SITE WITH THE PROJECT ARBORIST TO VERIFY THE EXTENT OF REQUIRED PRUNING
- ALL PRUBBIG SYALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS OF A CUALIFIED INTERNATIONAL SOCIETY OF ARBORICULTURE [IBA] CERTIFIED ARBORIST OR AN AMERICAN SOCIETY OF CONSULTING ARBORISTS (ASCA) REGISTERED CONSULTING ARBORIST (RCA):
- 3. AT LEAST ONE MEMBER OF THE PRUNING CREW SHALL BE AN ISA CERTIFIED ARBORIST.
- WHILE IN THE TREE, THE ARBORIST SHALL PERFORM AN AERIAL INSPECTION TO IDENTIFY DEFECTS THAT REQUIRE TREATMENT. ANY ADDITIONAL WORK NEEDED SHALL BE REPORTED TO THE OWNER.
- FRUNING CUTS SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE ANSIASIOS BRUNING STANDARD (AMERICA NATIONAL STANDARD FOR TREE CARE OFFEATIONS) AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF ANSI 213.5 1 SAPETY STANDARD, PRUNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ISAS "BEST MANACEMENT PRACTICES, TREE PRUNING".
- WHERE TEMPORARY CLEARANCE IS NEEDED FOR ACCESS, BRANCHES SHALL BETTED BACK TO HOLD THEM OUT OF THE CLEARANCE ZONE
- NO MORE THAN 20 PERCENT OF LIVE FOLIAGE SHALL BE REMOVED WITHIN ANY TREE.
- LIVE BRANCH PRUNING SHOULD BE PERFORMED ONLY WHEN THE DANGER OF INSECT OR DISEASE INFESTATION IS NOT PRESENT.
- b. REMOVE STUBS, CUTTING OUTSIDE THE WOUND WOOD TISSUE THAT HAS FORMED AROUND THE BRANCH.
- C. CLEANING, FOR THE SELECTIVE REMOVAL OF DEAD, DISEASED, BROKEN, OR CROSSING BRANCHES DOWN TO ONE INCH IN DIAMETER OR AS DIRECTED BY THE PROJECT ARBORIST.
- d. PRUNING CUTS LARGER THAN 4 INCHES IN DIAMETER, EXCEPT FOR DEAD WOOD, SHALL BE AVOIDED.
- E. PRUNING CUTS THAT EXPOSE HEARTWOOD SHALL BE AVOIDED WHENEVER POSSIBLE.
- ALL TREES WITH CROWNS THAT PROJECT INTO PARKING LOT/ROADWAY AREAS SHALL BE RAISED TO 14 FEET ABOVE FINISHED GRADE.
- ALL TREES WITH CROWNS THAT PROJECT INTO SIDEWALK AREAS SHALL BE RAISED TO A HEIGHT OF BIFEET ABOVE FINISHED GRADE.
- II. TREES, WHO'S ROOT SYSTEMS WILL BE IMPACTED SHALL RECEIVE THE FOLLOWING PRUNING TO COMPENSATE FOR ROOT LOSS
- b. REDUCTION, OR THE SELECTIVE PRUNING TO REDUCE TREE HEIGHT OR SPREAD
- c. REDUCE END WEIGHT ON HEAVY, HORIZONTAL BRANCHES BY SELECTIVELY REMOVING SMALL DIAMETER BRANCHES, NO GREATER THAN 2 TO 3 INCHES, NEAR THE ENDS OF SCAFFOLD BRANCHES.
- U. RAISING SHALL CONSIST OF SELECTIVE PRUNING TO PROVIDE VERTICAL CLEARANCE
- 6. PRUNING SHALL BE LIMITED TO CLEANING.
- 11. BRUSH SHALL BE CHIPPED AND SPREAD (ONLY WHEN DISEASE OR INSECT INFESTATION IS NOT PRESENT) UNDERNEATH TREES WITHIN THE TREE PROTECTION ZONE TO A MAXIMUM DEPTH OF THREE (3) INCHES, LEAVING THE TRUNK CLEAR OF MULCH.
- 12. DONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL EXCESS DEBRIS ON A DAILY BASIS.

- CONTRACTOR SHALL COORDINATE FERTILIZATION PLAN, FOLLOWING SEST MANAGEMENT PRACTICES WITH THE PROJECT ARBORIST PRIOR TO COMMENCEMENT OF WORK.
- EVERY EFFORT SHALL BE MADE TO UTILIZE CHEMICALS OF AN ORGANIC OR BIODEGRADABLE NATURE IN ORDER TO OFFER THE LEAST IMPACT TO THE NATURAL FAVIRONMENT. CONTRACTOR IS RESPONSING FOR MIXING, APPLYING, AND DISPOSAL OF ALL CHEMICALS IN ACCORDANCE (VITA STRICT ADHERENCE TO MANUFACTURER'S SPECIFICATIONS, COORDINATE WITH PROJECT ARBORIST FOR FURTHER INSTRUCTION
- ONLY TREES AFFECTED BY CONSTRUCTION OR AS SHOWN ON THE TREE MITIGATION PLAN AND TREE INVENTORY SCHEDULE SHALL BE TREATED.
- a. MIX FERTILIZER ACCORDING TO MANUFACTURER'S SPECIFICATIONS INTO A TANK WITH AGITATION CAPABILITY.
- 6. MIX WETTING AGENT ACCORDING TO MANUFACTURER'S SPECIFICATIONS INTO SAME TANK WITH FERTILIZER: AGITATE MIX.
- INJECT THE MIXTURE WITH A HYDRAULIC INJECTION SYSTEM INTO THE UPPER 6-12 INCHES OF SOIL WITH A SOIL PROBE INJECT AT THE RATE OF ONE THIRD (1/3) CALLON AT EACH INJECTION SITE.
- d. THE CRITICAL ROOT ZONE AREA PLUS 2' BEYOND THE CRITICAL ROOT ZONE SHALL BE INJECTED. BUT NOT BEYOND ROOT PRUNING LOCATIONS.
- e. FERTILIZER SHALL BE INSTALLED PRIOR TO THE INSTALLATION OF ANY AERATION SYSTEM
- T. EMPTY PRODUCT CONTAINERS SHALL BE STOCKPILED FOR INSPECTION BY THE PROJECT ARBORIST PRIOR TO DISPOSAL.
- B. CONTRACTOR SHALL PROVIDE MYCORRHIZAL TRANSPLANT INOCULANT ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND AS RECOMMENDED BY THE PROJECT ARBORIST. MIX INOCULANT IN 10* WIDE TOPSOIL RING AROUND THE ROOT BALL.
- CONTRACTOR SHALL PROVIDE INJECTABLE MYCORRHIZAL INOCULARIT ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND AS RECOMMENDED BY THE PROJECT ARBORIST. AGITATE FOR 10 MINUTES.
- E. INJECT THE MIXTURE WITH A HYDRAULIC INJECTION SYSTEM INTO THE UPPER 6-12 INCHES OF SOIL WITH A SOIL PROBE INJECT AT THE RATE OF ONE THIRD (1/3) GALLON AT EACH INJECTION SITE;
- d. EMPTY PRODUCT CONTAINERS SHALL BE STOCKPILED FOR INSPECTION BY PROJECT ARBORIST PRIOR TO DISPOSAL
- - APPROXIMATELY ONE YEAR AFTER PLANTING, THE CONTRACTOR SHALL REFERTILIZE ALL TRANSPLANTS UTILIZING THE SAME PROCEDURES ABOVE.

- 1. NOTIFY PROJECT ARBORIST F ANY INFESTATION IS NOTICED.
- FOLLOW ALL MANUFACTURERS' RECOMMENDATIONS CONCERNING APPLICATION. READ ALL WARNING LABELS
- ANY PETS, AS WELLAS, THE PETS FOOD AND WATER BOWLS SHOULD BE REMOVED. FROM THE AREA AND ANY SWIMMING POOLS SHOULD BE COVERED. COORDINATE WITH PROJECT ARBORIST FOR FURTHER INSTRUCTION.
- 5. ENSURE COMPLETE COVERAGE AND REAPPLY 2-3 MONTHS AFTER INITIAL APPLICATION UTILIZING SAME PROCEDURE

- EVERY EFFORT SHALL BE MADE TO WATER THE PRESERVED TREES AND TRANSPLANTS. CONTRACTOR SHALL IRRIGATE BY HAND OR BY TEMPORARY IRRIGATION.
- 2. IRRIGATE AS REQUIRED BY PROJECT ARBORIST UNTIL PERMANENT IRRIGATION IS INSTALLED AND OPERATING

UNDERGROUND IRRIGATION SHALL NOT BE INSTALLED WITHIN THE DRIP LINES OF EXISTING TREES UNLESS ROOT PROTECTION MEASURES ARE PROVIDED AND APPROVED BY PROJECT AREORIST.

- PRIOR TO AND DURING LAND CLEARING, INCLUDING GRUBBING, ALL TREES TO BE REMOVED SHALL BE CLEARLY MARKED BY PROJECT ARBORIST WITH RED SURVEY RIBBONS AT 38 INCRES MINIMUM ABOVE GRADE.
- CONTRACTOR SHALL REMOVE ALL TREES AS SHOWN ON THE TREE MITIGATION PLANS AFTER THE TREE PROTECTION FENCING IS INSTALLED.
- ALL TREES SHOWN TO BE REMOVED BHALL BE FELLED WITH A CHAIN SAW AND STUMP GROUND B' BELOW SURFACE. ANY TREE SHOWN TO BE REMOVED THAT IS IN AN AREA WHERE COMPACTION IS CRITICAL SHALL BE FELLED WITH A CHAIN SAW AND STUMF REMOVED BY CONTRACTOR.
- ALL WCOD AND STUMPS FROM REMOVALS SHALL BE HAULED FROM THE SITE THE SAME DAY, EXCEPT FOR TOPS: ALL TOPS ARE TO BE MUCHED AND STOCKPILED OR HAULED DIRECTLY TO MUCHED AREAS FOR RELOCATED TREES IF SCHEDULING PERMITS. TOPS SHALL BE CHIPPED AND PIACED IN THE TIMES PROJECTION ZONE TO A DEPTH OF THREE (8) NOMES: ALL EXCESS WOOD CHIP'S SHOULD BE HAULED OFF SITE AFTER TRANSPLANTING IS COMPLETE.
- 5 ALL BURN PITS IF APPLICABLE MUST BE APPROVED BY THE PROJECT ARBORIST AND OWNER
- TREES TO BE REMOVED THAT HAVE BRANCHES EXTENDING INTO THE CAMOPY OF TREES TO REMAIN MUST BE REMOVED BY A QUALIFIED ISA CERI HED ARBORIST AND NOT BY DEBUCITION OR CONSTRUCTION CONTROLOTORS, HE QUALIFIED AUBDRIST SHALL REMOVE THE TIRE IN A MANNER THAT CAUSES NO DAMAGE TO THE TREES AND UNDERSTORY VEGETATION TO REMAIN
- TREES TO BE REMOVED LOCATED WITHIN THE TREE PROTECTION ZONE SHALL BE REMOVED BY A QUALIFIED ISA CERTIFIED ARBORIST. THE TREES SHALL BE OUT NEAR GROUND LEVEL AND THE STUMP GROUND OUT.

- 1. DIG TRANSPLANT-RECEIVING HOLE.
- 2. SET SPADE DUG ROOT BALL INTO RECEIVING HOLE 4"-6" ABOVE EXISTING GRADE
- 3 WASH SAND OR TOPSOIL INTO AIR POCKETS BETWEEN ROOT BALL AND RECEIVING HOLE.
- INSTALL TOPSOIL RING, 4" HIGH, 10" WIDE, AROUND PERMITER OF ROOT BALL, MIX MYGORRHIZAL TRANSPLANT INOCULANT INTO TOPSOIL RING PER MANUFACTURERS SPECIFICATIONS.
- 5. INSTALL THREE INCHES OF MULCH FROM PERIMETER OF ROOT BALL TO WITHIN 6" OF TREE TRUNK
- 6. GOVER TOPSOIL RING WITH 1" OF MULCH AND EXTEND MULCH 4"-6" DEEP, AWAY FROM PERIMETER OF ROOT BALL.

7. WATER TRANSPLANT. K HOLDING AREA FOR TRANSPLANTS

- HOLDING AREAS SHOULD NOT BE NECESSARY. CONSTRUCTION PHASING SHOULD BE IMPLEMENTED SO THAT TREES ARE IMMEDIATELY RELOCATED TO THEIR PERMANENT LOCATION. COORDINATE WITH PROJECT ARBORIST AS NEEDED.
- SHOULD A HOLDING AREA BE NECESSARY, TREE PROTECTION FENCING SHALL BE INSTALLED AT THE PERIMETER OF THE ENTIRE AREA.
- CONTRACTOR SHALL COORDINATE LOCATION AND SPECIFICATIONS OF THE HOLDING AREA WITH PROJECT ARBORIST.
- CONTRACTOR SHALL SUPPLY TEMPORARY IRRIGATION TO THE HOLDING AREA CONSISTING OF ABOVE GROUND PVC OR PERSENT HILBER PIPE. SPRAY OR ROTOR HEADS (WITH HEAD TO HEAD COVERAGE) AND A CONTROLLER, COORDINATE WITH PROJECT AND GRIFT FOR CONTROLLER SETTINGS AND ALTERNATIVE WATERING METHODS.

L TOPSOIL

- CONTRACTOR SHALL COORDINATE ALL EARTHWORK OPERATIONS WITHIN TREE PROTECTION AREAS WITH THE PROJECT ARBORIST PRIOR TO BEGINNING WORK.
- ALL TOPSOIL SHALL BE NATURAL, FRIABLE, FERTILE, FINE LOAMY SOIL POSSESSING CHARACTERISTICS OF REPRESENTATIVE TOPSOIL IN THE VICINITY THAT PRODUCES HEAVY GROWTH.
- TOPSOLETH RANGE OF 5.5 TO 7.0, 3-5 PERCENT ORGANIC MATERIAL MINIMUM, FREE FROM SUBSOIL, OBJECTIONABLE WEEDS, LITTER, SODS, STIFF CLAY, STORES LANGER THAN ONE (1) NICH IN DOMNETER, STUMPS, ROOTS, TRASH, TOXIC SUBSTANCES, OR ANY STIFFER MATERIAL WHICH HAY BE LANGUAGE, TO FLAYING GROWTH.
- VERIFY AMOUNT STOCKPILED IF ANY, AND SUPPLY ADDITIONAL AS NEEDED FROM NATURALLY WELL-DRAINED SITES WHERE TOPSOIL OCCURS AT LEAST FOUR (4) INCHES DEEP, DO NOT OBTAIN TOPSOIL FROM BOGS OR MARSHES.

5. PROJECT ARBORIST SHALL APPROVE ALL TOPSOIL PRIOR TO PLACEMENT,

- IF DAMAGE TO ANY TREE SHOULD CCCUR BY ACCIDENT OR NEGLIGENCE DURING THE CONSTRUCTION PERIOD, THE PROJECT ARBORIST SHALL APPRAISE THE DAMAGE AND MAKE RECOMMENDATIONS TO THE OWNER FOR REPAIR BY THE CONTRACTOR.
- IF ANY TREE DESIGNATED TO BE SAVED IS REMOVED FROM THE SITE WITHOUT FERM ASION OF THE DYWHEN'S REPRESENTA
 THE PROJECT ANDORST SHALL APPRAISE THE TREE AND MAKE RECOMMENDATIONS TO THE OWNER FOR REPLACEMENT OF
 CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF THE TREE AND ANY FEES THAT MAY BE
 ASSESSED TO THE OWNER BY THE GOVERNING AGENCY.

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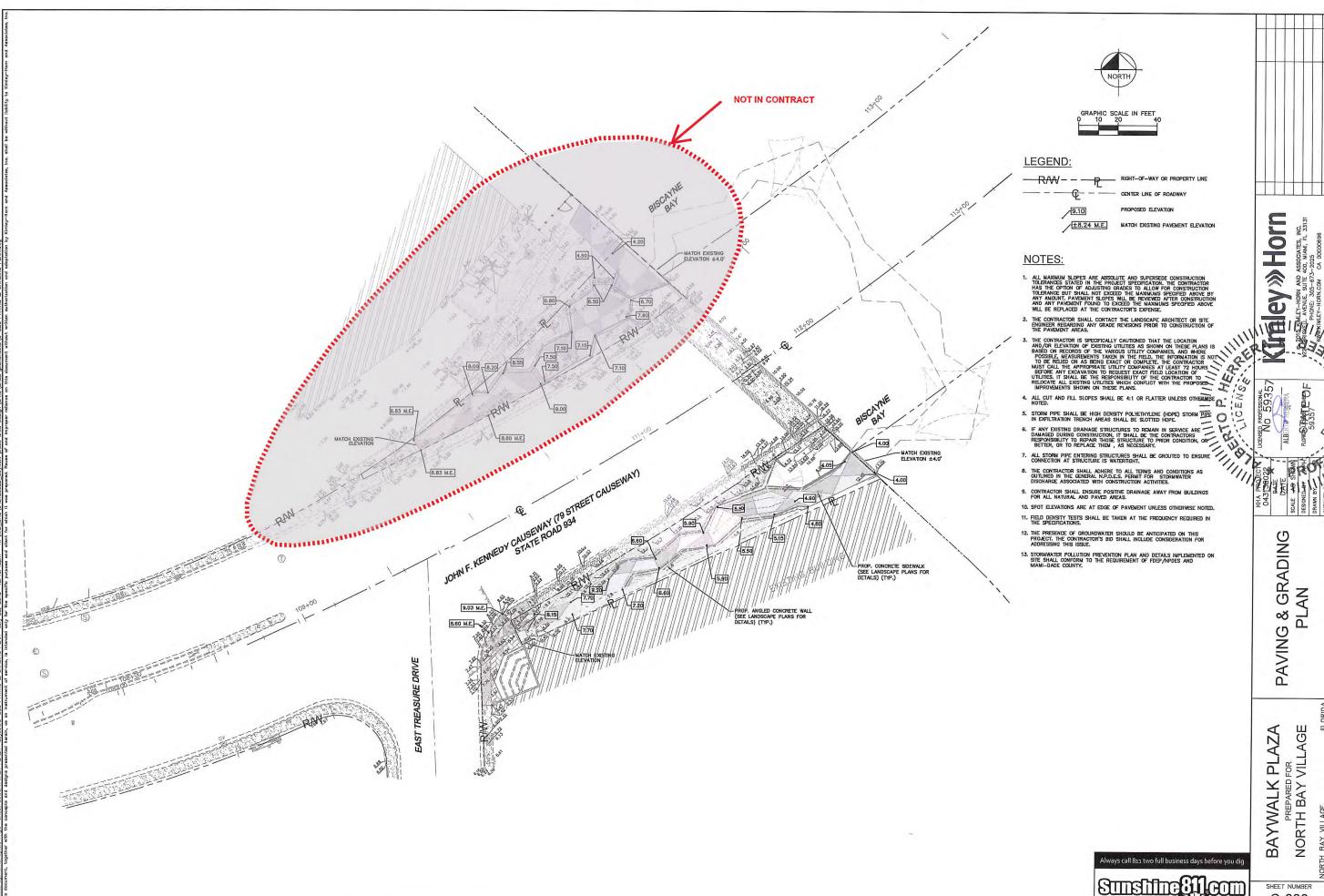
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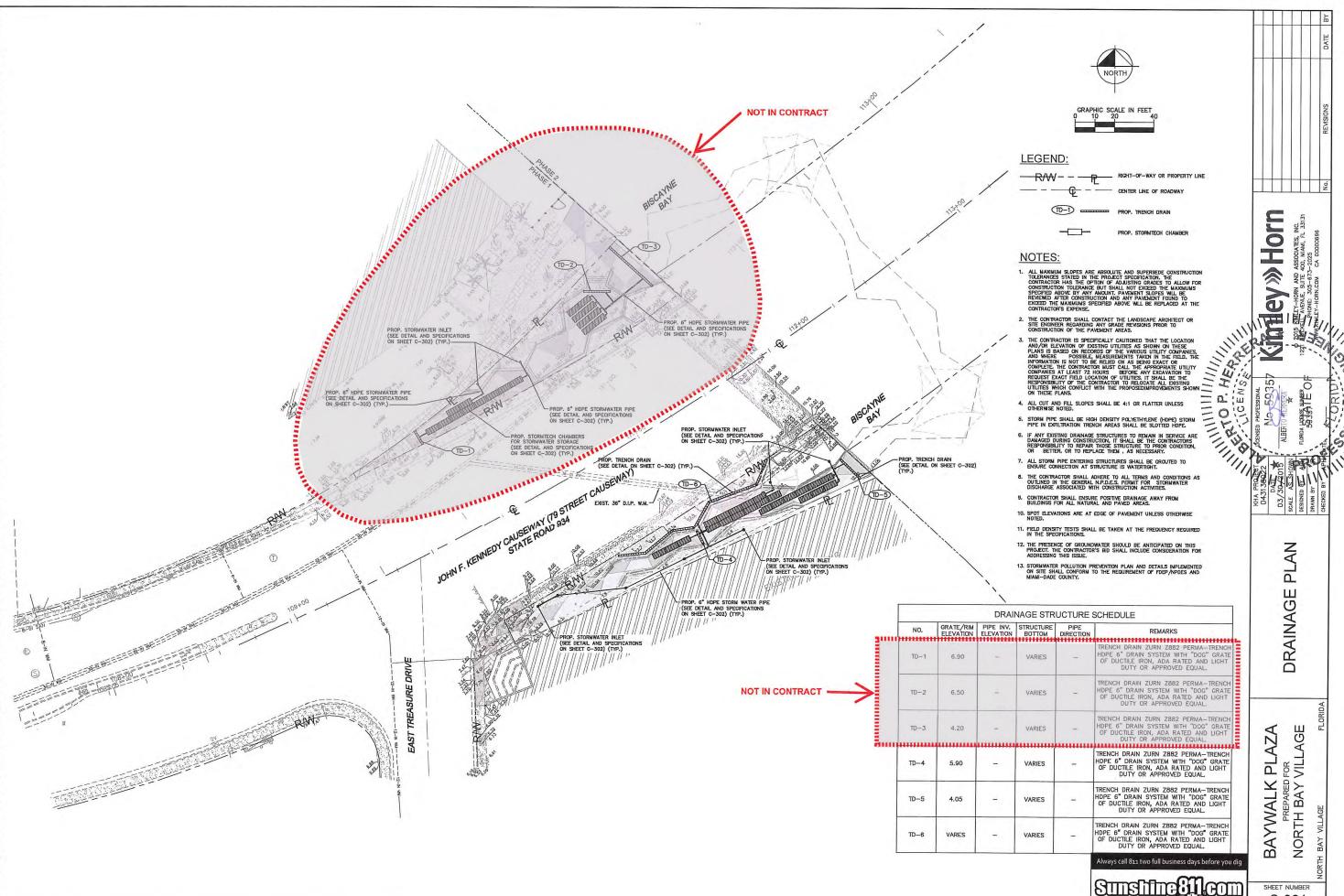
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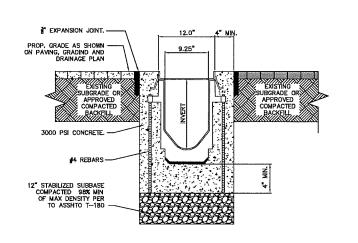
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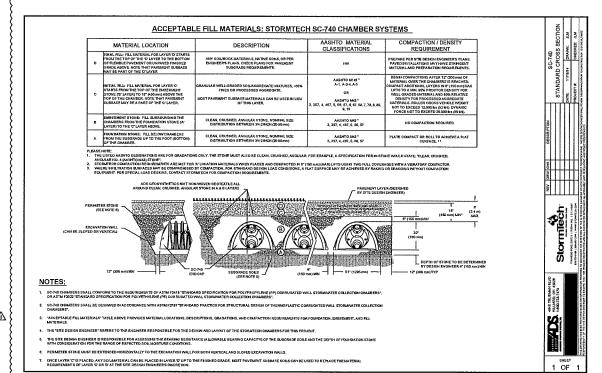
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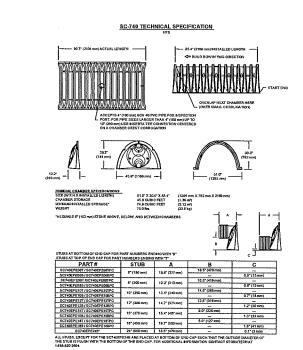
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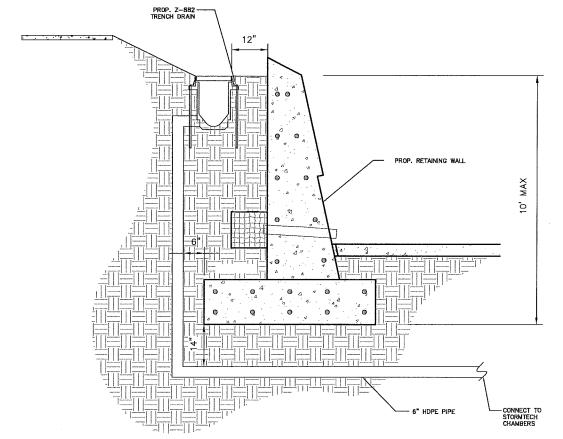
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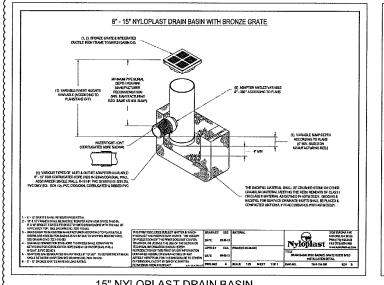
ZURN Z-882 TRENCH DRAIN SYSTEM DETAILS (TYPICAL) (OR APPROVED EQUAL)



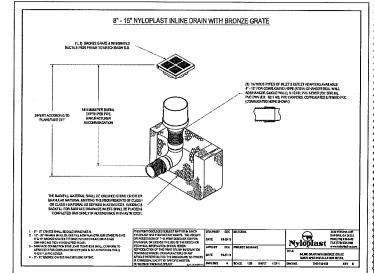








15" NYLOPLAST DRAIN BASIN (OR APPROVED EQUAL)



15" NYLOPLAST INLINE DRAIN (OR APPROVED EQUAL)

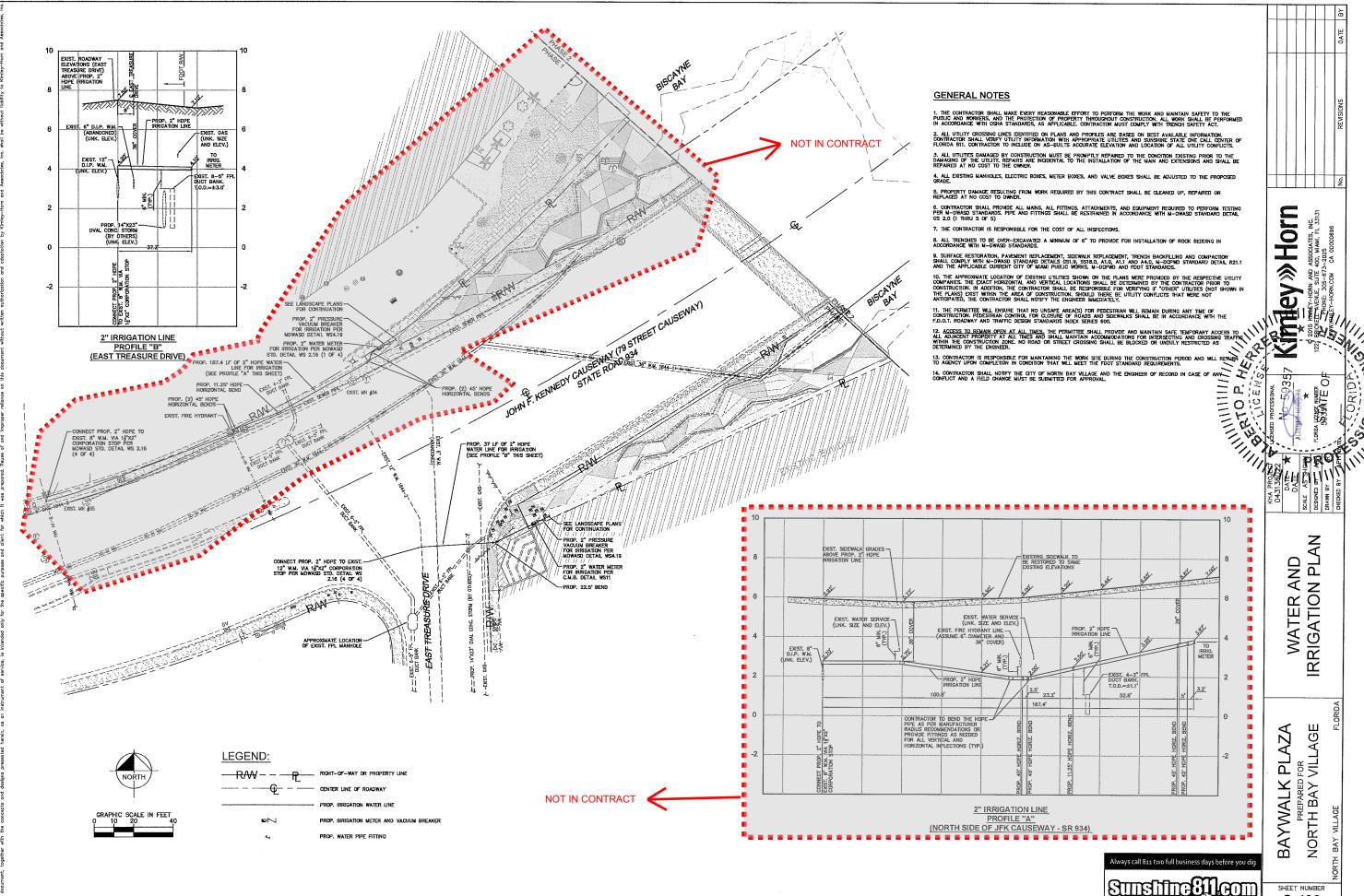
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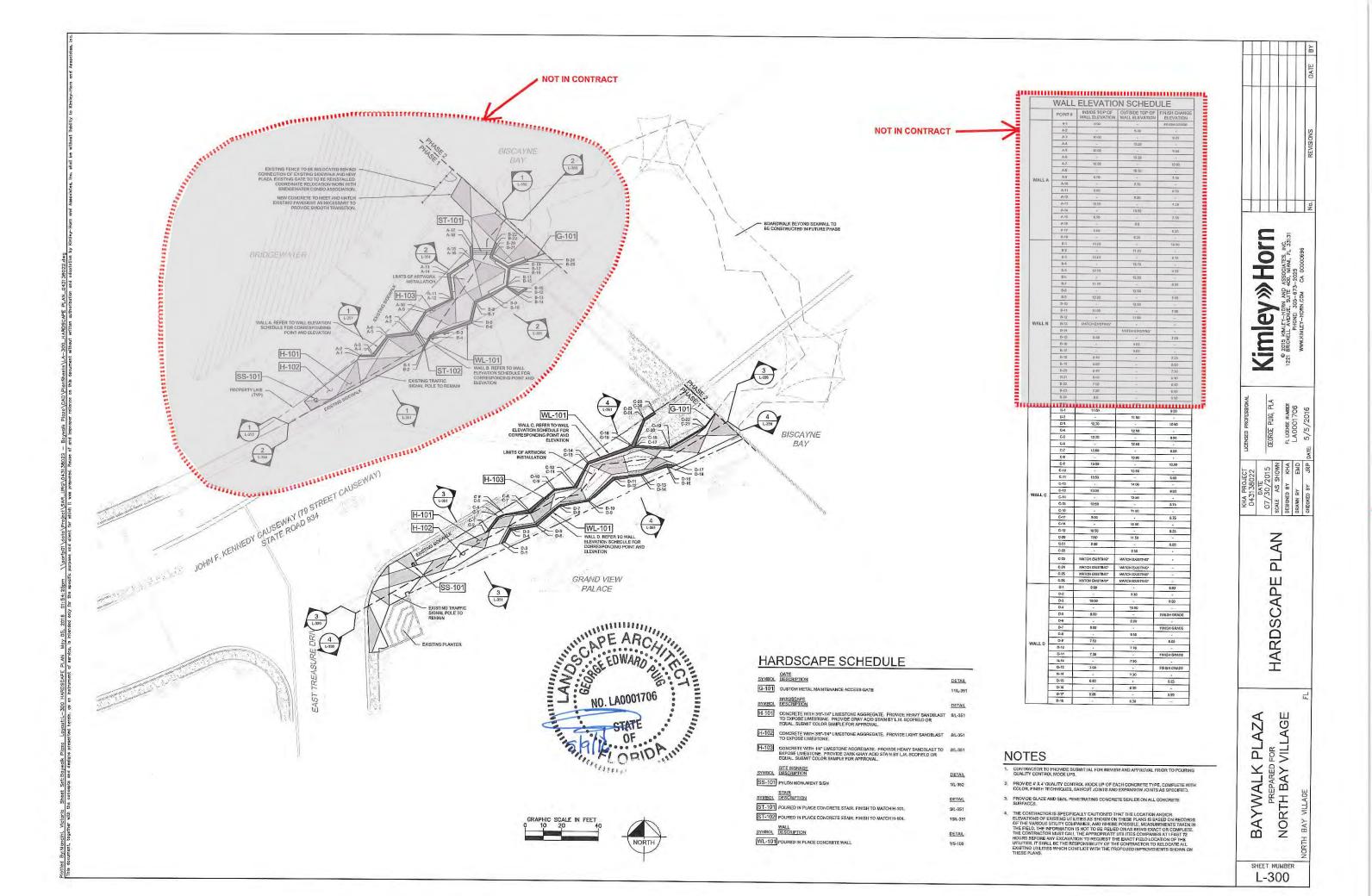
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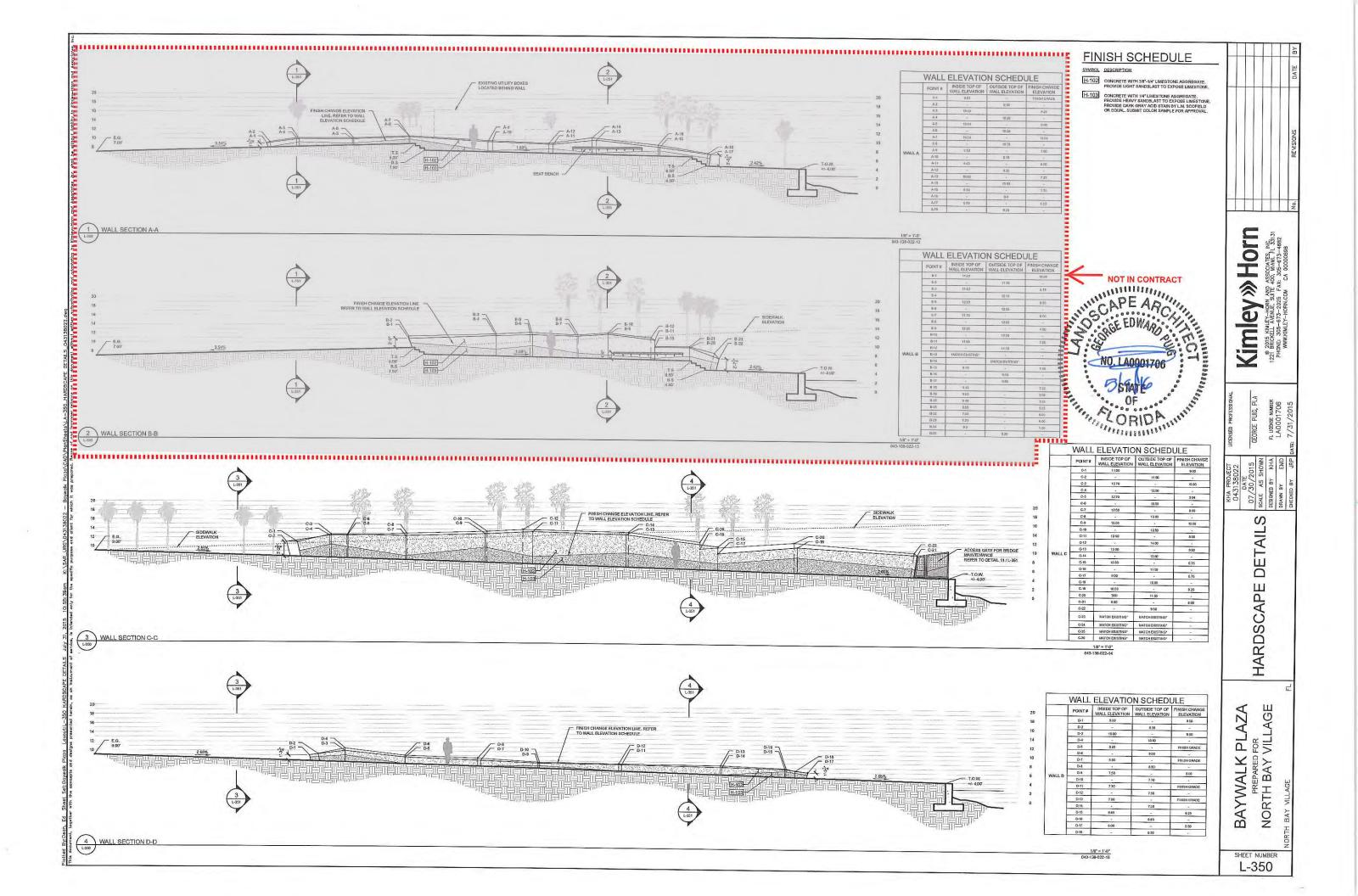
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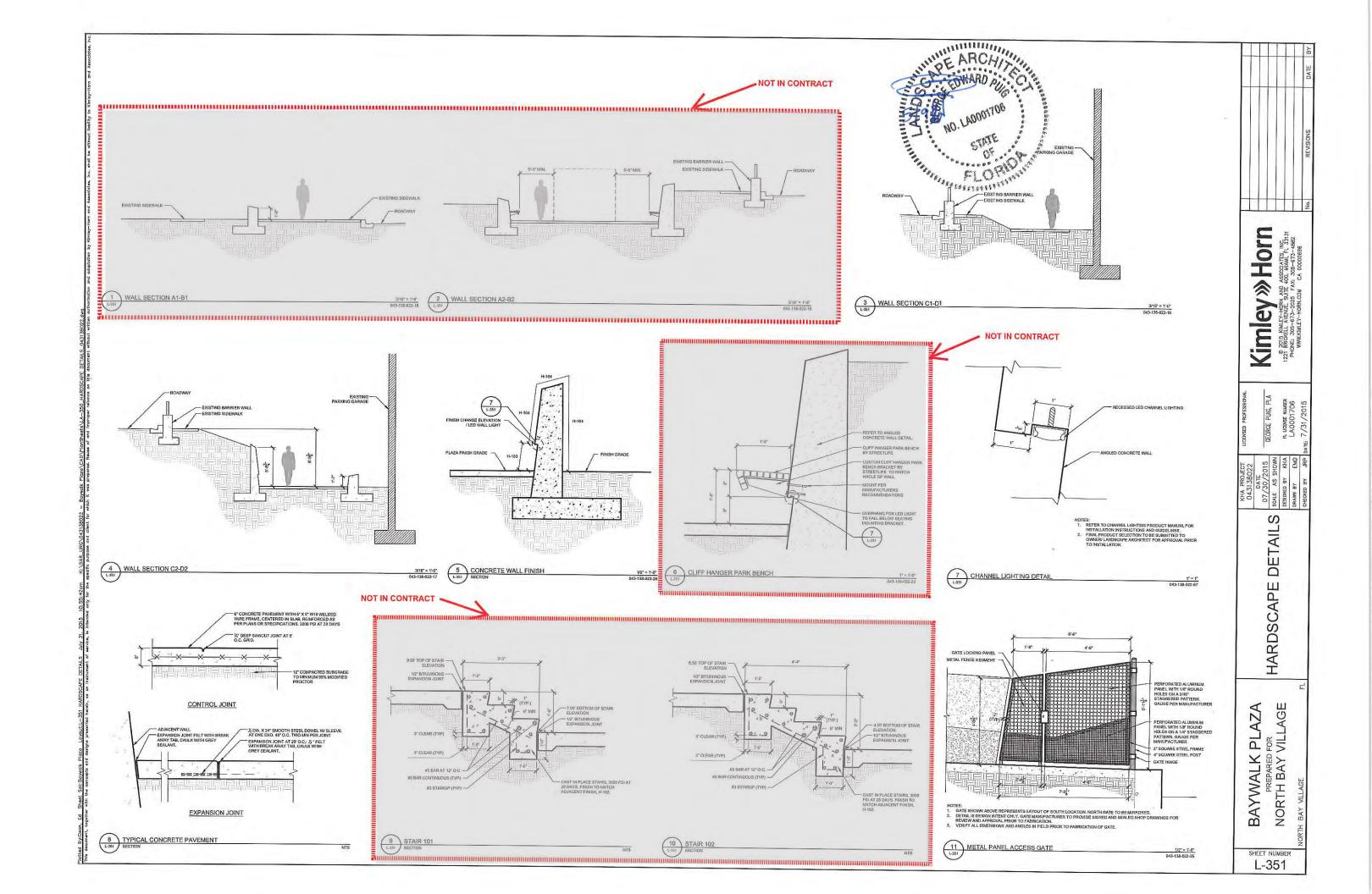
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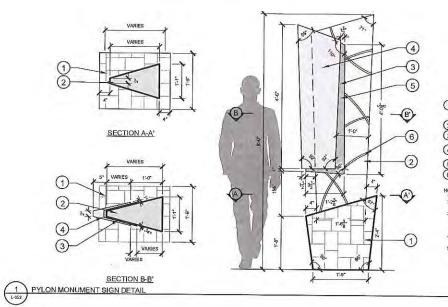
PREPARED FOR NORTH BAY VILLAGE **BAYWALK PLAZA**











1 1'.9' X 1'.9' TAPERED CONCRETE BASE WITH 1' THICK KEYSTO VENEER, VENEER TO BE APPULED IN ASHLAR PATTERN, ALL EXPOSED EDGES SHALL RECEIVE 1/4' BULLNOSE

2 TAPERED WHITE CONCRETE PYLON
3 PAINTED METAL PANEL WITH PLUSH MOUNTED LETTERING

PAINTED METAL PANEL WITH FLUSH MOUNTED LETTERING
 SIGMAGE COPY AREA. SEE F352/Z
 B LED LIGHT STREP (TVP). PROVIDE 50% BLUE AND 50% GREEN LIGHTS.

NOTES:

DETAIL IS DESIGN INTENT ONLY.
 ALL MATERIALS TO BE SUBMITTED TO OWNER/LANDSCAPE
 ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
 CONTRACTOR TO PROVIDE SIGNED AND SEALED SHOP DRAWINGS.
 FOR REVIEW AND APPROVAL PRIOR TO EARPLICATION SHADE

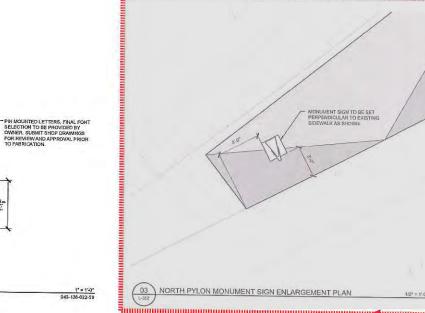
DRAWINGS SHALL INCLUDE FOOTING AND STRUCTURAL DESIGN OF ALL RELATED MONUMENT SIGN COMPONENTS.

CONTRACTOR TO COORDINATE ELECTRICAL REQUIREMENTS AS

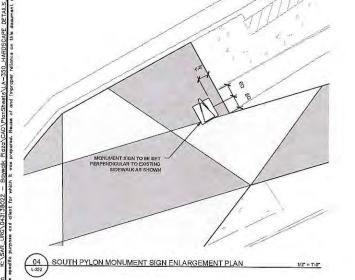
5. KEYSTONE VENEER TO MATCH FINISH OF KEYSTONE VENEER USED ON THE PRIVACY WALLS ALONG THE WESTERN PORTION OF CAUSEWAY RIGHT-OF-WAY LANDSCAPE.

3/4" = 1"-0" 043-138-022-58 NOTE: MONUMENT SIGNS ARE DOUBLE SIDED, PIN MOUNTED LETTERING TO BE INSTALLED ON BOTH SIDES OF PYLON.

2
PYLON MONUMENT SIGN LETTERING



NOT IN CONTRACT



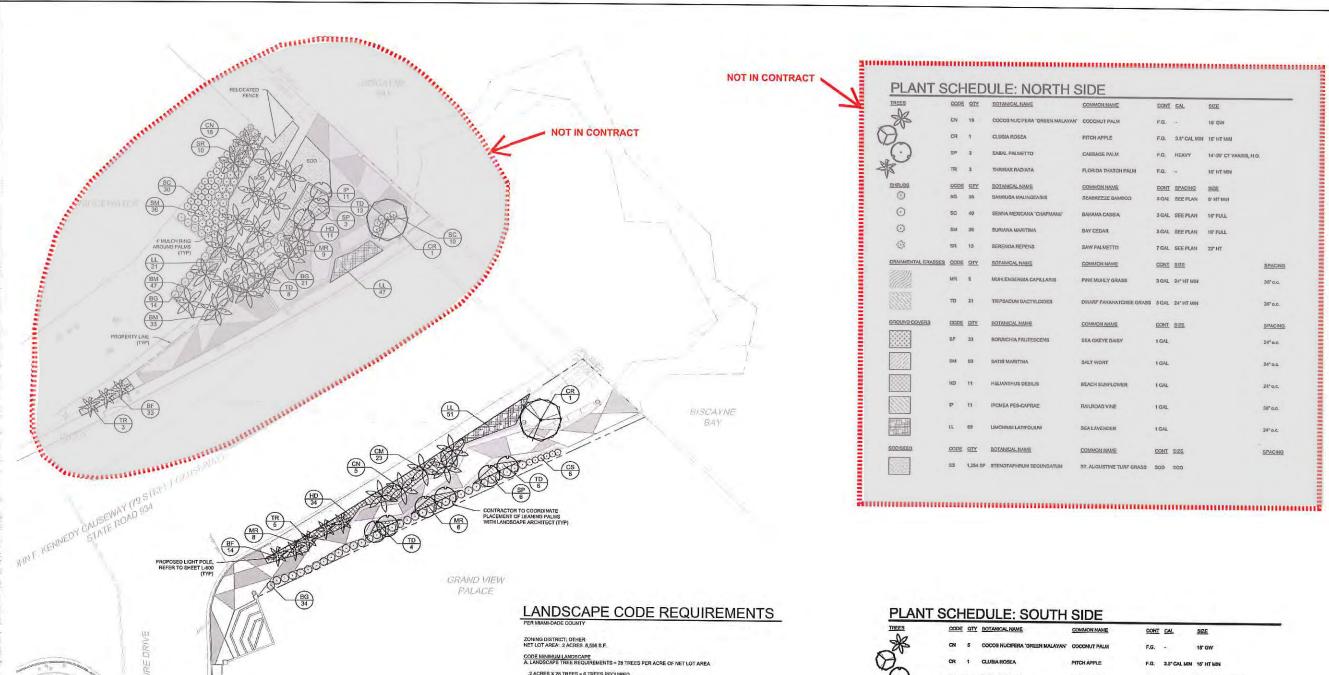
AZA HARDSCAPE DETAILS

Kimley» Horn © 2015 KMLE-HORN AND ASSOCIATES, INC. 1221 BRICKELL ARENCE, SUITE 400, MIMILE, 13131 PHONE: 306-673-4025 FAX. 305-673-4882 WWW.KIMLEY-HORN.COM. CA 00000595

GEORGE PUIG, PLA

FL UCENSE NUMBER LA0001706

BAYWALK PLAZA PREPARED FOR NORTH BAY VILLAGE



'NO MORE THAN 30% SHALL BE PALMS

8. SHRUB REQUIREMENTS = 10 PER REQUIRED TREE

'NO MORE THAN 30% SHALL BE PALMS

TOTAL TREE CANOPY TO BE REMOVED

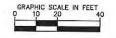
TOTAL MITIGATION CANOPY REQUIRED

TREE MITIGATION CALCULATIONS

23,864 SF

TOTAL SPECIMEN TREE CANOPY TO BE REMOVED 1,570 SF
SPECIMEN TREE CANOPY MITIGATION REQUIREMENTS 6,280 SF

Oranie and American				0101				
TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE	
*	CN	5	COCOS NUCIFERA 'GREEN MALAYAN'	COCONUT PALM	F.G.		18" GW	
7	CR	1	CLUSIA ROSEA	PITCH APPLE	F.G.	3.5° CAL MIN	16" HT MIN	
O	SP	6	SABAL PALMETTO	CABBAGE PALM	F.G.	HEAVY	14"-20" CT VARIES, H.O.	
X	TR	5	THRINAX RADIATA	FLORIDA THATCH PALM	F.G.		15" HT MIN	
SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SPACING	SIZE	
0	BG	34	BAMBUSA MALINGENSIS	SEABREEZE BAMBOO	3 GAL	SEE PLAN	6" HT MIN	
0	CS	8	CLUSIA GLITTIFERA	SMALL-LEAF CLUSIA	3 GAL	SEE PLAN	24° FULL	
ORNAMENTAL GRASSES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE		SPACING
	MR	14	MUHLENBERGIA CAPILLARIS	PINK MUHLY GRASS	3 GAL	24" HT MIN		36° e.c.
	то	10	TRIPSACUM DACTYLOIDES	DWARF FAKAHATCHEE GRASS	3 GAL	24" HT MIN		36° a.c.
GROUND COVERS	CODE	YTD	BOTANICAL NAME	COMMON NAME	CONT	SIZE		SPACING
	BF	14	BORRICHIA FRUTESCENS	SEA CXEYE DAISY	1 GAL			24° a.c.
	СМ	23	CARISSA MACROCARPA	NATAL PLUM	3 GAL			45° o.c.
	HD	34	HELIANTHUS DEBILIS	BEACH SUNFLOWER	1 GAL			24° o.c.
	u	51	LIMONIUM LATIFOLIUM	SEA LAVENDER	1 GAL			24° 0.c.





BAYWALK PLAZA PREPARED FOR NORTH BAY VILLAGE

PLAN

LANDSCAPE

Kimley » Horn

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GENERAL LANDSCAPE SPECIFICATIONS AND NOTES

A. SCOPE OF WORK

- THE WORK CONSISTS OF: FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT AS SHOWN ON THE DRAWINGS. AS INCLUDED IN THE PLANT LIST, AND AS SPECIFIED
- WORK SHALL INCLUDE MAINTENANCE AND WATERING OF ALL CONTRACT PLANTING AREAS LINTH, CERTIFICATION OF ACCEPTANCE BY THE CWARR.

5. PROTECTION OF EXISTING STRUCTURES

- T. ALL EXISTING BUILDINGS, WALKS, WALLS, PAVING, PIPING, OTHER SITE CONSTRUCTION ITEMS, AND PLANTING ALREADY COMPLETED OR ESTABLISHED AID DESIGNATED TO REMAIN SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR UNILESS OTHERWISE SPECIFIED, ALL DAMAGE RESULTING FROM NEGLIGENCE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER, AT NO COST TO THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL NECESSARY RMP DEVICES ACCORDING TO ALL REGULATORY AGENCY'S STANDARDSTHROUGH THE DURATION OF ALL CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL SUBMIT A DETAILED PROJECT SPECIFIC WORK ZONE TRAFFIC CONTROL PLAN UNLESS THE WORK REQUIRES NOTHING MORE THAN A DIRECT APPLICATION OF INDEX 600 IS PROPOSED, THE CONTRACTOR SHALL SUBJATI IN WRITING A STATEMENT INDEX IN THE STRANGED INDEX AND PAGE NUMBER NO LEST THAN 16 BUSINESS DAYS PRIDE TO START OF CONSTRUCTION WHEN A DIRECT APPLICATION OF FOOT STANDARD INDEX 600 IS NOT ACCEPTABLE A PROJECT SPECIFIC WORK ZONE TRAFFIC CONTROL LAND SHALL BE PREVAINED BY A FLORIDA PROFESSIONAL ENGINEER WHO HAS SUCCESSFULLY COMPLETED ADVANCED TRAINING IN MAINTENANCE OF TRAFFIC, AS DEFINED BY FOOT FOR APPROVAL BY THE COUNTY ENGINEER'S
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES, WHETHER PUBLIC OR PRIVATE, PRIOR TO EXCAVATION. THE INFORMATION AND DATA SHOWN WITH RESPECT TO ENSTING UNDERGROUND FACILITIES OR OR CONTRIGUOUS TO THE SITE IS APPROXIMATE HAND SASED ON INFORMATION. PURISHED BY THE OWNER OF SUCH UNDERGROUND FACILITIES OR ON PHYSICAL APPURISHED BY THE OWNER OF SUCH UNDERGROUND FACILITIES OR ON PHYSICAL APPURISHED SO SHOWN ON THE FIRE OF THE ACCURACY AND COMMETENESS OF ANY SUCH INFORMATION AND DATA. THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR REVIEWING AND CHECKING ALL SURPRIANTION AND DATA. LOCATING ALL UNDERGROUND FACILITIES DURING CONSTRUCTION. THE SAFETY AND PROTECTION THEFOOF, REPAIRING ANY DAMAGE THERETO REPAIRING FOR THE CONTRACTOR SHALL NOTIFY ANY AFFECTED UTILITY COMPANIES OR AGENCIES IN WRITING AT LEAST 48 HOURS FRONT TO BEGINNING CONSTRUCTION.

- I: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNAUTHORIZED CUTTING OR DAMAGE TO TREES AND SPEURS EXISTING OR OTHERWISE. CAUSED BY CARSELESS EQUIPMENT OPERATION, MATERIAL STOCKPUING, ETC., THIS SHALL MICLIDE COMPACTION BY DRIVING OR PAPPAINE INSIDE THE DIRPLINE AND SPLING FOR LASADLING OR OTHER DELETERIOLS MATERIALS SHALL BE BURNED ON STIE. EXISTING TREES BILLED OR DAMAGED SO THAT THEY ARE MISSHADEN ANDOR UNSIGHTLY SHALL BE REPLACED AT THE COST TO THE CONTRACTOR OF THREE HUNDRED DO LATARS (1909) PER CALIFER HICH ON HAIR SCALAFORM STATE SCALE WHICH ADDITIONAL TWENTY (20) PERCENT PER HICH OVER FOUR (4) INCHES CALIFER AS FINED AND AGREED LOUIDINTED DAMAGES, CALIFER BHALL BE MEJURIED SK (5) INCHES ARROY GROUND LEVEL FOR THESE UP TO AND INCLUDING FOUR (4) INCHES AND TYPELVE (12) MORES ABOVER CHAIR CALIFER.
- 2. SEE TREE MITIGATION PLAN AND NOTES, IF APPLICABLE.

D. MATERIALS

1. GENERAL

MATERIAL SAMPLES LISTED BELOW SHALL BE SUBMITTED FOR APPROVAL, ON SITE DR AS DETERMINED BY THE OWNER, UPON APPROVAL, DELIVERY OF MATERIALS MAY COMMENCE.

SAMPLE SIZE ONE (1) CUBIC FOOT ONE (1) CUBIC FOOT ONE (1) CUBIC FOOT ONE (1) OF EACH VARIETY (OR TAGGED IN NURSERY) TOPSOIL MIX

P ANT MATERIALS

- 1. P.ANT SPECIES AND SIZE SHALL CONFORM TO THOSE INDICATED ON THE DRAWINGS. ALL NURSERY STOCK SHALL BE IN ACCORDANCE WITH GRADES AND STANDARDS FOR NURSERY PLANTS. LATEST EDITION, PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE MEDICATIONS OF ANY DOWNSHAME, SERVICES, ALL PLANTS SHALL BE FLORIDA GRADE FOR TO REPETE AND SECTEMBRING BY THE FLORIDA DURING PAIN OF PLANT HOLDS FRY. ALL PLANTS SHALL BE FLEATHY. VIGOROUS, SOLVID, WELL BRANCHED, AND FREE OF DISEASE AND INSECTS, INSECT EGGS AND LARVAE AND SHALL HALE AND SHAPE. ALL PLANTS SHALL BE FREE OF PLANTING IN ROWS SHALL BE UNIFICENTIAL SIZE AND SHAPE. ALL PERFAIS SHALL BE SUBJECT TO APPROVAL BY THE OWNER, WHERE ANY REQUIREMENTS ARE DRIVED FROM THE PLANT LIST, THE PLANTS FURNISHED SHALL BE NORMAL FOR THE VARIETY, PLANTS SHALL BE PRUNED PRINCE FOR DIFFERON THIN APPROVAL FROM OWNERS OR DRIVED SHALL BE REPRESENTATIVE, NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN PERMISSION FROM THE OWNER'S REPRESENTATIVE.
- b. MEASUREVENTS, THE HEIGHT AND/OR WIDTH OF TREES SHALL BE MEASURED FROM THE GROUND OR ACROSS THE NORMAL SPREAD OF BRANCHES WITH THE PLANTS IN THEIR NORMAL POSITION. THIS INJENSUREMENT SHALL HOT INCLUDE THE IMMEDIATE TERMINAL BROWTH, PLANTS LARGER IN SECTIONAL HOGS SPECIFIED IN THE PLANT LIST MAY BE USED IS PAPPROVED. THE OWNER, IT SEC OF LARGER PLANTS IS APPROVED, THE BALL OF EARTH OR SPREAD OF ROOTS SHALL BE INCREASED IN PROPORTION TO THE SIZE OF THE PLANT.
- C. INSPECTION PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL AT THE PLACE OF GROWTH, OR UPON DELIVERY TO THE SITE, AS DETERMINED BY THE OWNER, FOR CHALITY, SIZE, AND VARIETY, SUCH APPROVAL SHALL NOT MAYAR THE RIGHT OF RISPECTION AND REJECTION AT THE SITE DUMING PRODRESS OF THE WORK OR ATTER COMPLETION FOR SIZE AND COMMITTION OF FOROT BALLS OR ROOTS, LATENT DEFECTS OR NUMBES, REJECTED PLANTS SHALL BE REMOVED IMMEDIATELY FROM THE SIZE, NOTICE REQUESTING INSPECTION SHALL BE SUBMITTED IN WARTING SY THE CONTRACTOR AT LEAST DIRE LY DIVERTERIOR TO ANTICIPATED BY ATTEINED THE OWNER.

E. SOIL MIXTURE (PLANTING MEDIUM, PLANTING MIX, TOPSOIL MIX)

- 1. CONTRACTOR SHALL TEST EXISTING SOIL AND AMEND AS NECESSARY IN ACCORDANCE WITH THE GUIDELINES BELOW:
- SCIL MIXTURE (FLANTING NEGIUM FOR PLANT PITS) SHALL CONSIST OF TWO PARTS OF TOPSOIL AND ONE PART SAND, AS DESCRIBED BELOW, CONTRACTOR TO SUSMIT SAMPLES AND PH TESTING RESULTS OF SOIL MIXTURE FOR OWNER'S REPRESENTATIVE APPROVAL FRIGHT TO PLANT KSTALLATION DEPENTOR'S COMMENCE.
- A. TOPSOIL FOR USE IN PREPARING SOIL MIX LIVE FOR BADGELLING PLANT IN IS SYMULEE PERTITIE, FRABLE, AND OF A LOAMY CHRANDISK REASSONARY FREE OF SURSOIL CLAY LIMINE, BRUSH WEEDS AND OHEN LITTER THESE OF ADOTS, INTURYS, STONES THAN EY MAY, DIRECTION, AND OTHER EXTRANEOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH, IT SHALL CONTAIN THREE (3) TO FIVE (3) PERCENT DECOMPOSIDE ORGANIC MATTER AND HAVE A PIETWEEN ES AND T. Q.
- b. SAND SHALL BE COARSE, CLEAN, WELL-DRAINING, NATIVE SAND
- TREES SHALL BE PLANTED IN THE EXISTING NATIVE SOIL ON BITS, UNLESS DETERMINED TO BE UNGUITABLE AT WHICH POINT THE
 CONTRACTOR SHALL CONTACT DYNAER'S REPRESENTATIVE TO DISCUSS ALTERNATE RECOMMENDATION PRIOR TO PLANTING.

F. WATER

- WATERING/IRRIGATION RESTRICTIONS MAY APPLY REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY

G. FERTILIZER

CONTRACTOR SHALL PROVIDE FERTILIZER APPLICATION SCHEDULE TO OWNER, AS APPLICABLE TO SOIL TYPE, PLANT INSTALLATION TYPE, AND SHE'S PROPOSED USE. SUGGESTED FERTILIZER TYPES SHALL BE ORGANIC OR OTHERWISE NATURALLY DERIVED.

- MULCH MATERIAL SHALL BE MO STENED AT THE TIME OF APPLICATION TO PREVENT WIND DISPLACEMENT, AND APPLIED AT A DEPTH OF THREE (3) INCHES, CLEAR MULCH FROM EACH PLANTS CROWN (BASE), MULCH SHALL BE "FLORIMLICH" EUCALYPTUS MULCH, OR SIMILAR SUSTAINACH FUNGWESTER MULCH DURSES SPECIFED DITERRISE
- PROVIDE A THREE (3) INCH MINIMUM LAYER OF SPECIFIED MULCH OVER THE ENTIRE AREA OF EACH SHRUB BED, GROUND COVER, VINE BED, AND TREE PIT (6' MINIMUM) PLANTED UNDER THIS CONTRACT.

L DIGGING AND HANDLING

- PROTECT ROOTS OR ROOT BALLS OF PLANTS AT ALL TIMES FROM SUN, DRYING WINDS, WATER AND FREEZING, AS NECESSARY UNTIL PLANTING, PLANT MATERIALS SHALL BE ADEQUATELY PACKED TO PREVENT DAMAGE DURING TRANSIT. TREES TRANSPORTED MORE THAN TEN (10) MILES OR WHICH ARE NOT PLANTED WITHIN THREE (2) DAYS OF DELIVERY TO THE SITE SHALL SE SPRAYED WITH AN ANTITRANSPIRRANT PRODUCT (WILTTRUFF OR EQUAL) TO INMINIZE TRANSPIRATIONAL TRATES LOSS.
- BALLED AND BURLAPPED (B&B), AND FIELD GROWN (FG) PLANTS SHALL BE DUG WITH HRIM, NATURAL BALLS OF SOIL OF SUFFICIENT SIZE TO ENCOMPASS THE PRIROUS AND FEEDING ROOTS OF THE PLANTS, NO PLANTS MOVED WITH A ROOT BALL SHALL BE PLANTED IF THE BALL IS GRACAED OR RICHARD, PLANTS SHALL NOT BE HANDLED BY STEMS;

- PLANTS MARKED 'ER' IN THE PLANT LIST SHALL BE DUG WITH BARE ROOTS. CARE SHALL BE EXERCISED THAT THE ROOTS DO NOT DRY OUT DURING TRANSPORTATION AND PRIOR TO PLANTING.
- 4. PROTECTION OF PALMS: ONLY A MINIMUM OF FRONDS SHALL BE REMOVED FROM THE CROWN OF THE PALM TREES TO FACILITATE MOVING AND HAVOLING, CLEAR TRUNK (CT) SHALL BE AS SPECIFIED AFTER THE MINIMUM OF FRONDS HAVE BEEN REMOVED. ALL PALMS SHALL BE BRACED FRE PALM IN PLANTING DETAIL.
- EXCAVATION OF TREE PITS SHALL BE PERFORMED USING EXTREME CARE TO AVOID DAMAGE TO SURFACE AND SUBSURFACE ELEMENTS SUCH AS UTILITIES OR HARDSCAPE ELEMENTS, FOOTERS AND PREPARED SUB-BASES.

J. CONTAINER GROWN STOCK

- ALL CONTAINER GROWN MATERIAL SHALL BE HEALTH?, VIGOROUS, WELL-RODTED PLANTS ESTABLISHED IN THE CONTAINER IN WHICH THEY ARE SOLD. THE PLANTS SHALL HAVE TOPS WHICH ARE OF GOOD QUALITY AND ARE IN A HEALTHY GROWING CONDITION.
- AN ESTABLISHED CONTAINER GROWN PLANT SHALL SETRANSPLANTED INTO A CONTAINER AND GROWN IN THAT CONTAINER SUFFICIENTLY
 LONG ENOUGH FOR THE NEW FIBROUS ROOTS TO HAVE DEVELOPED SO THAT THE ROOT MASS WILL RETAIN ITS SHAPE AND HOLD TOGETHER.
 WHEN REMOVED FROM THE CONTAINER, CONTAINER GROWN STOCK SHALL NOT BE HANDLED BY THEIR STEMS.
- 3. ROOT BOUND PLANTS ARE NOT ACCEPTABLE AND WILL BE REJECTED.
- 4. RPG= 'ROOTS PLUS GROWER' CONTAINER PRODUCTS SHALL BE USED WHERE SPECIFIED.

K COLLECTED STOCK

WHEN THE USE OF COLLECTED STOCK IS PERMITTED AS INDICATED BY THE OWNER OR DWINERS REPRESENTATIVE. THE MINIMUM SIZES OF ROOTBALLS SHALL BE EQUAL. TO THAT SPECIFIED FOR THE NEXT LARGER SIZE OF NURSERY GROWN STOCK OF THE SAME VARIETY.

PLANTS COLLECTED FROM WILD OR NATIVE STANDS SHALL SE CONSIDERED NURSERY BROWN WHEN THEY HAVE BEEN SUCCESSPULLY RECEIVED AND THE MINISTERY NOW AND GROWN UNDER REGULAR NURSERY CULTURAL PRACTICES FOR A MINISTERY NOW AND GROWN UNDER REGULAR NURSERY CULTURAL PRACTICES FOR A MINISTERY OF TWO THE NURSERY ROW SAAGOIS AND INVENTATIONED ACCOUNTER FOOT AND TOP GROWN TO INCIDENT FULL RECOVERY FROM TRANSFLANTING INTO THE NURSERY ROW

MATERIALS LIST

QUANTIFIES NECESSARY TO COMPLETE THE WORK ON THE DRAWINGS SHALL BE FURNISHED BY THE CONTRACTOR, QUANTITY ESTIMATES HAVE BEEN MADE CARREPLY, BUT THE LANDSCAPE ARCHITECT OR OWNER ASSUMES NO LIABILITY FOR OMISSIONS OR ERRORS, SHOULD A DESCREPANCY OCCUR BETWEEN THE PLANS HAT HE PLANS HAT DRAWNERT REPRESENTATE SHALL OTHERED FOR CLARIFICATION AND FOR TO BIDDING OR INSTALLATION. ALL DILARKSIONS AND/OR SIZES SPECIFIED SHALL BE THE MINIMUM ACCENTABLE SIZE.

FINE GRADING

- FINE GRADING UNDER THIS CONTRACT SHALL CONSIST OF FINAL FINISHED GRADING OF LAWN AND PLANTING AREAS THAT HAVE BEEN ROUGH GRADED BY OTHERS. BERAING AS SHOWN ON THE DRAWINGS SHALL BETHE RESPONSIBILITY OF THE CONTRACTOR, LIKLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL FINE GRADE THE LAWN AND PLANTING AREAS TO BRING THE ROUGH GRADE UP TO FINAL FINISHED GRADE ALLOWING FOR THICKNESS OF SOD ANDIOR MULCH DEPTH. CONTRACTOR SHALL FINE GRADE BY HAND ANDIOR WITH ALL EQUIPMENT NECESSARY INCLUDING A GRADING TRACTOR WITH PRONT-END LOADER FOR TRANSPORTING SOIL WITHIN THE SITE.
- ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED FOR POSITIVE DRAINAGE TO SURFACE/SURSURFACE STORULDRAIN SYSTEMS AREAS ADJACENT TO BUILDINGS SHALL SLOPE AWAY FROM THE BUILDINGS. REFER TO CIVIL ENGINEER'S FLANS FOR FINAL GRADES, IF APPLICABILE.

- CLEARING UP BEFORE COMMENCING WORK: THE CONTRACTOR SHALL CLEAN WORK AND SURROUNDING AREAS OF ALL RUBBISH OR ORDECTIONABLE MATERIOR TO ALL WORTHAY, CEMENT, AND TOXIC MATERIAL, SHALL BE REMOVED FROM THE SURFACE OF ALL PLANT BEDS, WILL HAN'S WEST AND SHALL WORTH SHALL WORTH AND SHALL WORTH THE SOUTH STATE OF THE SURFACE CONDITIONS SERVENT THE SOIL WHICH WILL HAN'S WEST SHEET VAPICY THE PLANT ROWNING SHALL MOVED THE CONTRACTOR FOR MISSIANCE WITH RESPONSIBILITY OF THE CONTRACTOR MEMORIAGES THE RESPONSIBILITY OF THE CONTRACTOR MEMORIAGES.
- VERIFY LOCATIONS OF ALL UTILITIES, CONDUITS, SUPPLY LINES AND CASLES, INCLIDING BUT NOT LIMITED TO: ELECTRIC, GAS (LINES AND TANKS), WATER, SANITARY SEMER, STORMMATER SYSTEMS, CASLE, AND TELEPHONE. PROPERLY MAINTAIN AND PROTECT EXISTING UTILITIES. CALL SUNSHINE STATE ONE CALL OF FLORIDA. INC. (811) TO LOCATE UTILITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
- SUBGRADE EXCAVATION: CONTRACTOR IS RESPONSIBLE TO REMOVE ALL EXISTING AND IMPORTED LIMEROCK AND LIMEROCK SUB-BASE FROM ALL LANDSCAFE PLANTING AREAS TO A MINIMUM DEPTH OF 38" OR TO NATIVE SOIL. CONTRACTOR IS RESPONSIBLE TO BACKFILL THESE PLANTING AREAS TO ROUGH FINISHED GRADE WITH CLEAN TORSOIL FROM AN ON-SITE SOURCE OR AN IMPORTED SOURCE. IF LIMEROCK OR OTHER AUTHORS CONDITIONS OF COLORIES PLANTING AREAS CONTRACTOR SHALL UTILIZE POOR DRAINAGE CONDITION PLANTING DETAIL.
- FURNISH NURSERY'S CERTIFICATE OF COMPLIANCE WITH ALL REQUIREMENTS AS SPECIFIED HEREIN, INSPECT AND SELECT PLANT MATERIALS BEFORE PLANTS ARE DUG AT NURSERY OR GROWING SITE.
- COMPLY WITH APPLICABLE FEDERAL, STATE, CDUNIY, AND LOCAL REGULATIONS GOVERNING LANDSCAPE MATERIALS AND WORK, CONFORM TO ACCEPTED HORTICULTURAL PRACTICES AS USED IN THE TRADE UPON ABRIVAL AT THE SITE, FLANTS SHALL BE THOROUGHLY WATERED AND PROPERLY MAINTAINED UNIT, LEANTED, HASTES STORED ONSITE SHALL NOT REMAIN UNFLANTED OF A PPROPRIATELY HEALED IN FORA PRIOD EXCEEDING TWENTY-FOUX (24) HOURS, AT ALL TIMES WORKMANLIKE METHODS CUSTOMARY IN GOOD HORTICULTURAL PRACTICES SHALL BE TREATED.
- THE WORK SHALL BE COORDINATED WITH OTHER TRADES TO PREVENT CONFLICTS, COORDINATE PLANTING WITH IRRIGATION WORK TO ASSURE AVAILABILITY OF WATER AND PROPER LOCATION OF IRRIGATION APPURTENANCES AND FLANTS
- ALL PLANTING PITS SHALL BE EXCAVATED TO SIZE AND DEPTH IN ACCORDANCE WITH THE USA STANDARD FOR NUMBERTY STOCK 260.1, UNLESS SHOWN OTHERWISE ON THE DRAWNINGS, AND BACK FILLED WITH THE PREPARED PLANTING TO SEE PLANTING TO SEE PLANTING TO SESSURE PROPER EN GRANAGE PERMANDE PLANTING TO SEE PLANTING TO SESSURE PROPER EN GRANAGE PLANTING TO SESSURE PROPER EN GRANAGE PLANTING THE PLANTING DETAIL THE BEAUTH OF THE PLANTING DETAIL THE BEAUTH OF THE PLANTING SHOWN OF THE PLANTING DETAIL THESE SHALL PLANTING SHOWN OF THE PLANTING SHO
- TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO BUILDINGS AND BUILDING STRUCTURES WHILE INSTALLING TREES.
- SOIL MIXTURE SHALL BE AS SPECIFIED IN SECTION E OF THESE SPECIFICATIONS.
- 10. TREPS AND SHRUBS SHALL RE SET STRAIGHT AT AN ELEVATION THAT, AFTER SETTLEMENT, THE PLANT CROWN WILL STAND ONE (1) TO TWO (2) INCHES ABOVE GRADE EACH PLANT SHALL BE SET IN THE CENTER OF THE PIT. PLANTING SOIL MIXTURE SHALL BE BACK FILLED, THOROUGHLY TAMIED AND ONLY AND SETTLED BY WATER (AFTER TRAINING).
- AMEND PINE AND OAK PLANT PITS WITH ECTOMYCORRIUZAL SOIL APPLICATION PER MANUFACTURER'S RECOMMENDATION, ALL OTHER PLANT PITS SHALL BE AMENICED WITH ENDOMYCORRIUZAL SOIL APPLICATION PER MANUFACTURER'S RECOMMENDATION, PROVIDE PRODUCT INFORMATION SUBMITTAL PRIOR TO INSOCULATION.
- 12. FILL HOLE WITH SOIL MIXTURE, MAKING CERTAIN ALL SOIL IS SATURATED. TO DO THIS, FILL HOLE WITH WATER AND ALLOW TO SOAK MINIMUM THENTY (20) MINUTES, STIRRING IF NECESSARY TO GET SOIL THORQUIGHEN WET, PACK LIGHTLY WITH FEET, ADD MORE WET SOIL MIXTURE. DO NOT COVER TO GE BALLANTH SOIL MIXTURE. ALL SUILAR, ROPE, WIRES, BASKETS, ETC.,, SHALL BE REMOVED FROM THE SIDES AND TOPS OF BALLS, BLIT NO BURLAP SHALL BE PULLED FROM UNDERNEATH.
- 13. TREES SHALL BE PRUVED, AT THE DIRECTION OF THE OWNER OR OWNER'S REPRESENTATIVE, TO PRESERVE THE NATURAL CHARACTER OF THE FLAIT. ALL SOFT WOOD OR SUCKER (ROWTH AND ALL BROKEN OR BROLY DAMAGED BRANCHES SHALL BE REMOVED WITH A CLEAN OUT, ALL RAUMRO TO DE FERRY ORNED BY CERTIFIED ASPORTS, IN ADCORPANCE WITH ANSI ASJO.
- SHRUBS AND GROUND COVER PLANTS SHALL BE EVENLY SPACED IN ACCORDANCE WITH THE DRAWINGS AND AS INDICATED ON THE PLANT LIST MATERIALS INSTALLED SHALL MEET MINIMUM SPECIMEN REQUIREMENTS OR QUANTITIES SHOW ON FLANS, WHICHEVER IS GREATER CULTIVATE ALL PLANTING AREAS TO A MINIMUM SEPTIOR OF, DEMONE AND DISPOSE ALL DEBRIS, MIX TOP 4" THE PLANTING SOL MIXTURE AS SPECIFIED IN SECTION E THOROUGHLY WATER ALL PLANTS AFTER INSTALLATION.
- 15. TREE GUYING AND BRACING SHALL BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE PLANS TO INSURE STABILITY AND MAINTAIN TREBS IN AN UPRIORIT POSITION. IF THE CONTRACTOR AND OWNER DECIDE TO YAM'S THE TIRE GUYING AND BRACING, THE OTHER SHALL NOTIFY THE PROJECT LANDSCAPE. ARCHITECT IN WITH INE AND AGREET IN INDEMNITY AND HOLD MAINLESS THE PROJECT LANDSCAPE ARCHITECT IN THE EVENT UNSUPPORTED TREES PLAYTED UNDER THIS CONTRACT FALL AND DIMMGE PERSON OR PROPIERTY.
- ALL PLANT BEDS SHALL BE KEPT FREE OF NOXIOUS WEEDS UNTIL FINAL ACCEPTANCE OF WORK. IF DIRECTED BY THE DIVINER, "ROUND SHALL BE APPLIED FOR WEED CONTROL BY QUALIFIED PERSONNEL TO ALL PLANTING AREAS IN SPOT APPLICATIONS PERS TO BRING INSTRUMENT AND APPLICATION OF THE MANUFACTURE PREGAUTIONS AND SECURIFICATIONS, PRIOR TO TRIAL INSPECTION TREAT ALL PLANTING BEDS WITH AN APPROVED PRE-EMERGENT HEE AT AN APPLICATION RATE RECOMMENDED BY THE MANUFACTURER. (AS ALLOWED BY JURISDICTIONAL AUTHORITY)

- THE WORK CONSISTS OF LAWN BED PREPARATION, SOIL PREPARATION, AND SODDING COMPLETE. IN STRICT ACCORDANCE WITH THE SPECIFICATIONS AND THE APPLICABLE DRAWINGS TO PRODUCE A TURE GRASS LAWN ACCEPTABLE TO THE OWNER.
- 2. ALL AREAS THAT ARE TO BE SODDED SHALL BE CLEARED OF MAY ROUGH GRASS, WEEDS, AND DEBRIS BY MEANS OF A SOD CUTTER TO A DEPTH OF THREE (3) INCHES, AND THE GROUND BROUGHT TO AN EVEN GRADE. THE DITTIES SHALL BE ROULED WITH A ROULER WEIGHING NOT MORE HUMBER (10) POLICIPS PER FOOT OF WHITH, DURING THE GROUNGS, ALL OPERESIONS CAUSED BY SET LIBERAT SHALL BE FEGRADED AND ROULED UNTIL PRESENTING A SYCOTIA AND EVEN MINIST TO THE REQUIRED GRADE.

- PREPARE LOOSE BED FOUR (4) INCHES DEEP, HAND RAKE UNTIL ALL BUMPS AND DEPRESSIONS ARE REMOVED. WET PREPARED AREA
- THE CONTRACTOR SHALL SOD ALL AREAS THAT ARE NOT PAVED OR PLANTED AS DESIGNATED ON THE DRAWINGS WITHIN THE CONTRACT LIMITS, UNLESS SPECIFICALLY NOTED DTHERWISE.
- b. THE SOD SHALL BE CERTIFIED TO MEET FLORIDA STATE PLANT BOARD SPECIFICATIONS, ABBOLUTELY YOUR TO VARIETAL TYPE, AND FREE FROM WEEDS, FUNGUS, INSECTS AND DISEASE OF ANY KIND.
- E SOD PANELS SHALL BE LAID TIGHTLY TOGETHER SO AS TO MAKE A SOLID SODDED LAWN AREA. SOD SHALL BE LAID UNFORMLY ACAINST THE BOOSE OF ALL CURBS AND OTHER HARDSCAPE ELEMENTS, PAVED AND CHAYTED AREAS, ADADENT TO BUILDINGS, A 24 NOH STONE UILLON STRIP SHALL BE PROVINCED MAND ATTEMPORATED. THE LAWN HARDS SHALL BE ROLLED WITH LAWN LED CUSTOMANING. THE LAWN HARDS SHALL BE ROLLED WITH LAWN LED CUSTOMANING. THE CONTROL OF THE CONTROL OF THE OWNER, TOP-DRESSING IS NECESSARY AFTER RALLING TO FILL THE YOR AND THE CONTROL OF THE CONTROL OF
- DURING DELIVERY, PRIOR TO, AND DURING THE PLANTING OF THE LAWN AREAS, THE SOD PANELS SHALL AT ALL TIMES BE PROTECTED FROM EXCESSIVE DRYING AND UNINECESSARY EXPOSURE OF THE ROOTS TO THE SUIL ALL SOD SHALL BE STACKED SO AS NOT TO BE DAMAGED BY SWEATING OR EXCESSIVE HEAT ADM MOISTURE.
- 5. LAWN MAINTENANCE
- a. WITHIN THE CONTRACT LIMITS, THE CONTRACTOR SHALL PRODUCE A DENSE, WELL ESTABLISHED LAWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RE-SCODING OF ALL ERODED, SUNKEN OR BARE SPOTS (LARGER THAN 12'X12') UNTIL CERTIFICATION OF ACCEPTANCE BY THE OWNER'S REPRESENTATIVE. REPAIRED SUDDING SHALL BE ACCOMPLISHED AS IN THE ORIGINAL WORK (INCLUDING REGRADING IF NECESSARY).
- CONTRACTOR RESPONSIBLE FOR ESTABLISHING AND MAINTAINING SOD/LAWN UNTIL ACCEPTANCE BY THE OWNER'S REPRESENTATIVE. FRIGHT TO AND LIPCH ACCEPTANCE, CONTRACTOR TO PROVIDE WATERINGRIFICATION SCHEDULE TO DWWFR, OBSERVE AT LAPPLICABLE WATERING RESTRICTIONS AS SET FORTH BY THE REPORTER'S JURISDICTIONAL LATHRIGHTY.

CLEANUP

UPON COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DEBIGN RESULTING FROM HIS WORK ALL PAYED ARBAS SHALL BE CLEANED AND THE SITE LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNERS REPRESIDITATIVE.

ALL PLANTS AND PLANTING INCLUDED UNDER THIS CONTRACT SMALL BE MAINTAINED BY WATERING, CULTIVATING, SPRAYING, AND ALL OTHER DEBATIONS (SUCH AS RE-STAKENG) OR REPAIRING GUY SUPPORTS) NECESSARY TO INSURE A HEALTHY PLANT CONDITION BY THE CONTRACTOR UNITLICENTIFICATION OF ACCEPTANCE BY THE CONTRACTOR UNITLICENT PROPERTY.

FINAL INSPECTION AND ACCEPTANCE OF WORK

FRAL INSPECTION AT THE BIO OF THE WARRANTY PERIOD SHALL BE ON PLANTING, CONSTRUCTION AND ALL OTHER INCIDENTAL WORK PERTAINING TO THIS CONTRACT MAY REPLACEMENT AT THIS TIME SHALL BE SUBJECT TO THE SAME ONE (I) YEAR WARRANTY (OR AS SPECIFIED BY THE LANDSCAPE ARCHITECT OR OWNER IN WRITING) BEGINNING WITH THE TIME OF REPLACEMENT AND FRIDING WITH THE BAIVE INSPECTION AND ACCEPTANCE HEREIN DESCRIBED.

WARRANTY

- THE LIFE AND SATISFACTORY CONDITION OF ALL PLANT MATERIAL INSTALLED (INCLUDING SOD) BY THE LANDSCAPE CONTRACTOR SHALL BE WARRANTED BY THE CONTRACTOR FOR A MINIMUM OF ONE (1) CALENDAR YEAR COMMENCING AT THE TIME OF SERTIFICATION OF ACCEPTANCE BY THE OWNERS REPRESENTANCE.
- ANY PLANT NOT FOUND IN A REALTHY GROWING CONDITION ATTHE END OF THE WARRANTY PERIOD SHALL BE REMOVED FROM THE SITE AND REPLACED AS SOON AS WEATHER CONDITIONS PERMIT ALL REPLACEMENTS SHALL BE PLANTS OF THE SMALK KIND AND SIZE AS SPECIFIED IN THE PLANT LIST. THEY SHALL BE FURNISHED PLANTED AND MULCHED AS SPECIFIED AT MC ADDITIONAL COST TO THE OWNER.
- IN THE EVENT THE OWNER DOES NOT CONTRACT WITH THE CONTRACTOR FOR LANDSCAPE AND IRRIGATION MAINTENANCE. THE CONTRACT SHOULD VISIT THE PROJECT SITE PERIODICALLY DURING THE ONE (1) YEAR WARRANTY PERIOD TO EVALUATE MAINTENANCE PROCEDURES BEING PERIPORMED BY THE OWNER, IN WIRPITING OF MAINTENANCE PROCEDURES OF CONDITIONS WHICH THREATER VICEOROUS AND HEALTH PLANT GROWTH, SHE VISITS SHALL BE CONDUCTED A MINIMUM OF ONCE PER MONTH FOR A PERIOD OF THE YELD WINDOWS THE MINIMUM OF ONCE PER MONTH FOR A

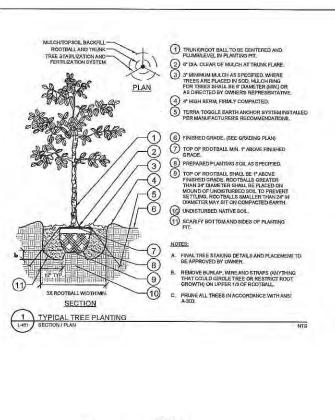
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OLL ASSOCIATES, INC. 400, MIAMI, FL 3313 4X: 305-673-4882 Ĭ **≈** SURE Kimley 절병 PRICK NE. 122_®

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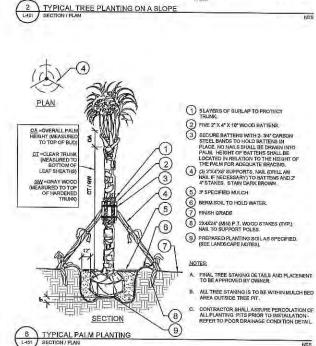


24° MIN. CLEAR

1. CLEAR ZONE: 36" MIN, FROM BUILDING TO CENTER OF NEAREST SHRUB.

5 TYPICAL PLANTINGS ADJACENT TO BUILDINGS
L451 SECTION

INSTALL SPECIFIED MULCH: 24" MIN. FROM BUILDING, SPECIFIED MULCH TO BE INSTALLED AT A DEPTH OF 3" (MIN.)



TRUNK/ROOT BALL TO BE CENTERED AND PLUMB/LEVEL IN PLANTING PIT.

2) 6" DIA. CLEAR OF MULCH AT TRUNK FLARE.

3 3. 4" HIGH BERM, FIRMLY COMPACTED,

4) 3" MNIMUM OF HARDWOOD BARK MULCH AS SPECIFIED, WHERE TREES ARE PLACED IN SOD, MULCH RING FOR TREES SHALL BE 6" DIAMETER (MIN.) OR AS DIRECTED BY OWNER'S REPRESENTATIVE.

5 TERRA TOGGLE EARTH ANCHOR SYSTEM INSTALLED PER MANUFACTURERS RECOMMENDATIONS.

6 4" MIN, OF TOPSOIL TO BRING TO FINISHED GRADE, (SEE GRADING PLAN)

TOP OF ROOTBALL MIN. 1° ABOVE FINISHED GRADE

(8) PREPARED PLANTING SOIL AS SPECIFIED.

9 ROOTBALLS GREATER THAN 24" DIAMETER SHALL BE PLACED ON MOUND OF UNDISTURBED SOIL TO PREVENT SETTLING, ROOTBALLS SMALLER THAN 24" IN DIAMETER MAY SIT ON COMPACTED EARTH.

(11) SCARIFY BOTTOM AND SIDES OF PLANTING

A. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.

REMOVE BURLAP, WIRE AND STRAPS (ANYTHING THAT COULD GIRDLE TREE OR RESTRICT ROOT GROWTH) ON UPPER 1/3 OF ROOTBALL.

C. PRUNE ALL TREES IN ACCORDANCE WITH ANSI A-300.

12) CUT BACK SLOPE TO PROVIDE A FLAT SURFACE FOR FLANTING.

(10) UNDISTURBED NATIVE SOIL.

NOTES:

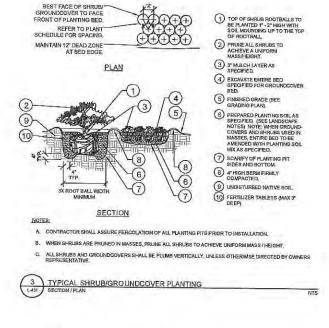
MULCH/TOPSOIL BACKFILL

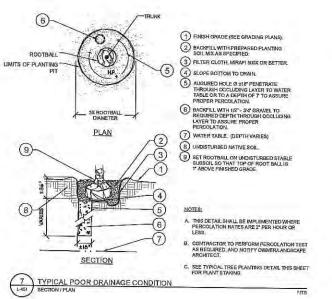
SECTION

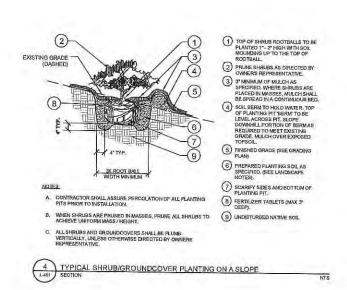
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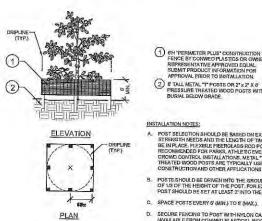
PLAN

(12)









A. POST SELECTION SHOULD BE BASED ON EXPECTED STRENGTH NEEDS AND THE LENGTH OF TIME FENCE WILL BE IN PLACE HEXIBITE REPRENAIS AND POST'S ARE RECOMMENDED FOR PARKS, ATHLETIC EVENTS AND CROWD CONTROL INSTALLATIONS, MERLY, TPOSTS OR TREATED WOOD POST'S ARE TYPICALLY USED FOR CONSTRUCTION

POSTS SHOULD BE DRIVEN INTO THE GROUND TO A DEPTH OF 1/3 OF THE HEIGHT OF THE POST, FOR EXAMPLE, A 6 POST SHOULD BE SET AT LEAST 2' INTO THE GROUND.

SPACE POSTS EVERY 6' (MIN.) TO 8' (MAX.).

SECURE FENCING TO POST WITH NYLON CABLE TIES (AVAILABLE FROM CONVED PLASTICS), WOOD STRIPS MAY BE ALSO BE USED TO PROVIDE ADDITIONAL BUPPORT AND PROTECTION BETWEEN TIES AND POSTS.

NOTE: IF WIRE TIES ARE USED, AVOID DIRECT CONTACT WITH FENCE, WIRE MAY DAMAGE FENCE OVER TIMP

B TYPICAL TREE PROTECTION FENCING

STRUMPE ARCHIVE CAR EDWARD PILE - 6 5 6 4 4 8 5 7 4

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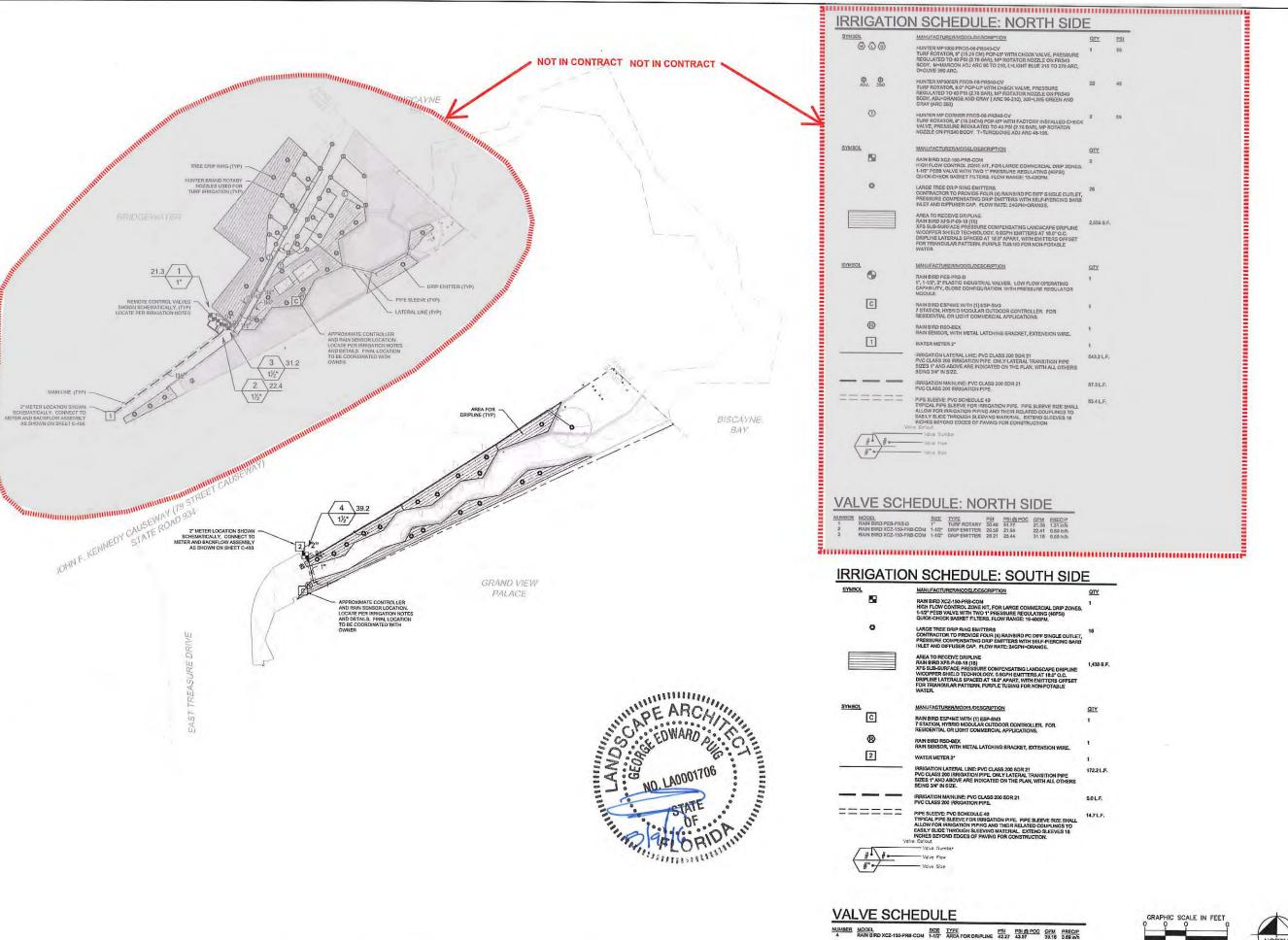
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IRRIGATION

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BAYWALK PLAZA

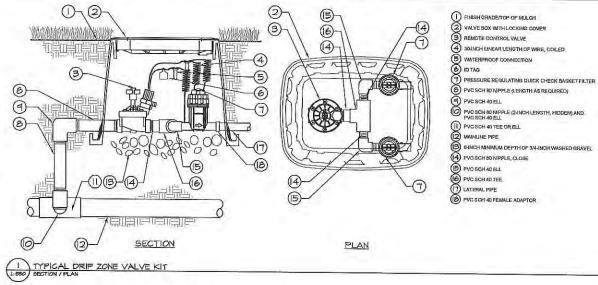
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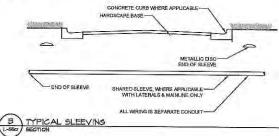
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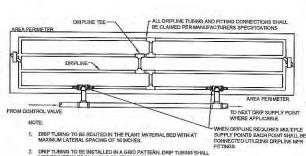
GENERAL IRRIGATION SPECIFICATIONS AND NOTES

- THE SYSTEM SHALL BE DESIGNED TO PROVIDE 100% COVERAGE, ANY CHANGES MADE IN THE LAYOUT DUE TO FIELD CONDITIONS SHALL BE IN ACCORDANCE WITH THESE STANDARDS.
- VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF IRRIGATION SYSTEM. ALL UTILITIES AND STRUCTURES MAY NOT BE SHOWN ON THESE PLANS-CONTRACTOR SHALL FIELD VERIFY.
- 3. CONTRACTOR TO FIELD VERIFY ALL POINT OF CONNECTION SOURCE INFORMATION INCLUDING PSI AND GPM PRIOR TO CO
- INSTALLATION OF WORK SHALL BE COORDINATED WITH OTHER CONTRACTORS IN SUCH A MANNER AS TO ALLOW FOR A SPEEDY AND ORDERLY COMPLETION OF ALL WORK ONSITE.
- IRRIGATION DESIGN IS SCHEMATIC ONLY. FULL AND COMPLETE SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW BY THE OWNER'S REPRESENTATIVE.
- CONTRACTOR SHALL COORDINATE WITH THE PLANTING PLAN FOR PLANTER BED AND TREE LOCATIONS TO IS COVERED BY 100% HEAD-TO-HEAD IRRIGATION.
- CONTRACTOR SHALL PROVIDE "AS-BUILT" DRAWINGS OF THE FINAL INSTALLATION TO OWNER AT SUBSTARECEIVING FINAL PAYMENT.
- IRRIGATION CONTRACTOR TO PROVIDE POWER SUPPLY TO ELECTRIC CONTROLLERS.
- IRRIGATION CONTRACTOR SHALL SECURE ANY AND ALL NECESSARY PERMITS FOR THE WORK PRIOR TO COMMENCEMENT OF HIS OPERATIONS ON SHITE. COPIES OF THE PERMITS SHALL BE SENT TO THE OWNER/GENERAL CONTRACTOR, WORK IN THE R.O.W. SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF LOCAL AND/OR STATE JURISDICTION.
- 10. IRRIGATION SYSTEM SHALL NOT BE INSTALLED THROUGH PRESERVED PLANT COMMUNITIES OR WITHIN WETLANDS OR THEIR ASSOCIATED RUFFERS.
- 11. LOCATE ALL IRRIGATION LINES WITHIN LANDSCAPED AREAS WHENEVER POSSIBLE, ALL LINES UNDER PAVEMENT MUST BE SLEEVED, ALL VALVES SHALL BE LOCATED WITHIN LANDSCAPED AREAS, AS SPECIFIED.
- 12. MAINLINE SHALL NOT BE LOCATED WITHOUT PRIOR APPROVAL OF THE OWNER'S REPRESENTATIVE
- 13. CONTRACTOR TO COORDINATE LOCATION OF ALL METERS AND BACKFLOW ASSEMBLIES WITH PROJECT OWNER
- 14. THE IRRIGATION CONTRACTOR SHALL BE DIRECTLY RESPONSIBLE FOR SLEEPING AND DIRECTIONAL BORES.
- 15. ALL SLEEVES UTILIZED BY THE IRRIGATION CONTRACTOR WHETHER INSTALLED BY HIMOR NOT, SHALL BE LOCATED ON THE "AS-BUIL," DRAWINGS. THE DEPTH BELOW FINISH GRADE, TO THE NEAREST FOOT OF EACH END OF THE SLEEVE SHALL BE NOTED AT EACH SLEEVE LOCATION ON THE "AS-BUIL," DRAWINGS. ALL SLEEVES ON PLAN FOR WALL PENETRATIONS AND UNDER SIDEWALKS SHALL BE SIZED TV PIPE SIZES GREATER THAN THE PIPE IT CARRIES.
- 16. ALL PRESSURIZED MAINLINES AND LATERALS UNDER PAVEMENT SHALL BE WITHIN SLEEVES AS NOTED, WHERE ELECTRIC OR HYDRAULIC VALVE CONTROL LINES PASS THROUGH A SLEEVE WITH OTHER MAIN OR LATERAL LINES THEY SHALL BE CONTAINED WITHIN A SEPARATE SMALLER CONDUIT.
- 17. SLEEVES UNDER EXISTING PAVEMENT MUST BE DIRECTIONAL BORE, OPEN CUT IS NOT AN OPTION.
- 18. NUMBER THE TOP OF ALL VALVE BOX LIDS WITH MINIMUM 1" HEIGHT BLACK LETTERS TO CORRESPO DESIGNATIONS, ALL HOSE BIBB VALVE BOXES SHALL BE LABELED IN A SIMILAR MANNER WITH THE DESIGNATION "HB", LETTER OUTSIDE OF TIME CLOCK CABINETS TO CORRESPOND WITH IRRIGATION CLOCK PROGRAM DESIGNATION.
- THE IRRIGATION CONTRACTOR SHALL INSTALL A COLOR CODED METAL DETECTABLE MARKING TAPE WHICH CLEARLY NOTES: "CAUTION: IRRIGATION LINE BURIED BELOW." THE TAPE SHALL BE INSTALLED THE FULL LENGTH OF THE IRRIGATION MAINLINE.
- 20. ALL VALVES, SPLICES WITHIN CONTROL LINES, AND QUICK COUPLERS SHALL BE LOCATED WITHIN NOS VALVE BOXES AS FOLLOWS:
 -RECTANGULAR 12"X1" HEAVY DUTY BOX, (PURPLE COVER FOR REUSE TO BE PROVIDED WHERE APPROPRIATE).
- ALL UNSIZED PIPE SHALL BE 3/4" UNLESS OTHERWISE NOTED ON PLAN, SEE LATERAL PIPE SIZING REQUIREMENTS.
- Z2. EACH TREE AND PALM (AS SHOWN ON THE PLANS) SHALL HAVE TWO (2) FLOOD BUBBLERS, SUCH HEADS SHALL BE ON MINIMUM S-OF LENGTH OF FLEXIBLE PIPE TO ALLOW ITS POSITIONING AT THE TREE. LOCATE BUBBLER ON THE UPHILL SIDE OF TREES ON ALL SLOPES.
- 23. ALL IRRIGATION HEADS/DRIP TUBING SHALL BE LOCATED ONE (1) FOOT FROM BACK OF CURB WHEN NEXT TO A ROADWAY. (THIS SHALL NOT INCLUDE PARKING AREAS OR DRIVE AISLES).
- LOCATE ALL VALVES IN PLANTING BEDG WITH A MINIMUM OF 3-0" FROM BACK OF CURB OR EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED, PIPE SIZES ON EITHER SIDE OF SECTION VALVES CONNECTING MAINLINE TO SECTION LATERAL SHALL BE ONE (1) PIPE SIZE LANGER THAN VALVE SIZE: WHERE MAINLINES RUN PARALLEL TO PAVEMENT OR CURBING, THE MAINLINE SHALL BE OFFSET 2-0" FROM THE EDISE OF PAVEMENT OF CURB.
- IRRIGATION ZONES SHALL BE SEPARATED FOR HIGH AND LOW WATER USE REQUIREMENTS AND OPERATED ON DIFFERENT WATERING CYCLES. BUBBLERS, DRIPLINE, AND SPRAY HEADS SHALL BE SEPARATED ON DIFFERENT VALVES, AT NO TIME SHALL MULTIPLE IRRIGATION HEAD TYPES BE LOCATED ON THE SAME VALVE
- 26. ALL DRIP ZONES SHALL BE INSTALLED WITH A FLUSH VALVE AND AIR RELIEF VALVE. IN THE EVENT THAT A DRIP ZONE HAS MORE THAN ONE HIGH OR LOW POINT, MORE THAN ONE AIR RELIEF VALVE OR FLUSH VALVE WILL BE REQUIRED FOR THAT ZONE, DRIPLINE SHALL PROVIDE 0.9 CHE HATTERS, IT CO. VITH 19°L INE STACKING AT A MINING.
- 27. IRRIGATION CONTRACTOR TO COORDINATE WITH OWNER FOR FINAL CONTROLLER AND RAIN SENSOR LOCATIONS. THE CONTROLLER SHALL BE PLACED IN A LOCKING CABINET APPROPRIATE FOR ITS LOCATION. (INDICOR VS. CUTDOOR USE)
- LOCATE THE AUTOMATIC RAIN SENSOR SHUTOFF DEVICE IN AN AREA THAT IS UNIOSS TRUCTED BY TREES, ROOF OVERHANDS, OR ANY OTHER OVERHEAD OBJECT. THE SENSOR SHALL NOT SE PLACED WITHIN THE SPRAY ZONE OF ANY SPRINCLER HEAD, INCLUDING OFF-SITE IRRIGATION CONTRACTOR SHALL LOCATE SENSOR WITHIN CLOSE PROXIMETY TO THE REGISTATION CONTROLLER.
- 29. CONTRACTOR SHALL PERFORM HYDRO-TESTING OF MAIN LINES.
- HYDRO-TESTING TO BE PERFORMED AS LISTED:
- THE CONTRACTION SHALL MOTIFY THE OWNERS REPRESENTATIVE FORTY. BIGHT (8) HOURS IN ADVANCE OF TESTING, PRIOR TO BEACHTRILING, CONTROCTORS BALL FILL PINNEW MYTH HARDER, IN THE PRESENCE OF THE OWNERS, REPRESENTATIVE, TAKING OWNER TO PLICES THE AIR FROMIT, A SMALL, FILCE THE WAS ADVANCED FOR THE OWNERS REPRESENTATIVE, TAKING OWNER TO CONNECTED TO THE FIPING AND SETSO AS TO MAINTAIN 125S FIRST ONE THOSE WHICH THE MATERIAL PROJECTION FOR SHALL MAKE ANY NECESSARY CORRECTIONS AND RETEST THE SYSTEM UNTIL THE OWNERS REPRESENTATIVE IS SATISFIED THAT THE SYSTEM STREADSHARY SOUND.
- ALL WIRING FOR COINECTION OF THE VALVES TO THE CONTROLLER SHALL FOLLOW MANUFACTURERS SPECIFICATIONS. IF REQUIRED, ALL WIRING FOR A TWO WIRE PATH SHALL BE WITH RECREIVE TWISTED PAIR 14 AWG, ELECTRIC CONTROLLINES FROM THE DECORDER TO RESIDE OF SHALL BE GROUNDED EVERY, DOLF, OR EVERY 10 EXPICES. ALL WIRE SHALL BE FURNISHED IN MINIMUM 2507 RELES AND SPLICING SHALL BE MINIMIZED. BUTY SPLICE KIT, ALL 24 VOLT WIRING SHALL BE ORDER SHALL BE GROUNDED SHALL BE ARROWNED SHALL SHAL
- 31. ALL CONTROL WIRE SHALL BE INSTALLED IN A 1. ELECTRICAL CONDUIT.
- 32. CONTRACTOR TO MINIMIZE IRRIGATION OVERTHROW TO IMPERVIOUS AND NATURAL AREAS THROUGH FIELD ADJUSTMENTS TO INDIVIDUAL HEADS.
- 33. ALL UNIMPROVED AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION BY THE CONTRACTOR
- 34. INSTALL ALL BACKFLOW PREVENTION DEVICES AND ALL PIPING BETWEEN THE POINT OF CONNECTION AND THE BACKFLOW AS PER LOCAL CODES, FINAL LOCATION SHALL BE DETERMINED BY THE OWNERS AUTHORIZED REPRESENTATIVE.



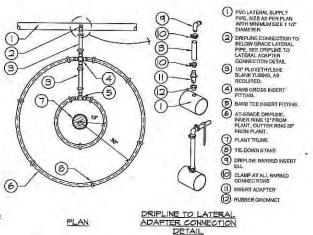
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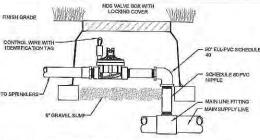
DRIF TUBING TO BE INSTALLED IN A GRID PATTERN. DRIP TUBING SHALL NOT BE INSTALLED IN A LONG CONTINUOUS RUN.



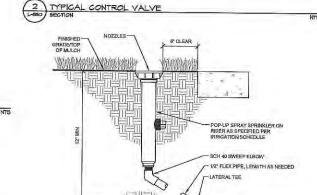


NOTE: PLACE TIE DOWN STAKES EVERY 3 FT, IN SAND, 4 FT, IN LOAM, AND 5 FT, IH CLAY, AS WELL AS AT ALL CHANGE OF DIRECTION SICH AS AT TEES OR ELLS.

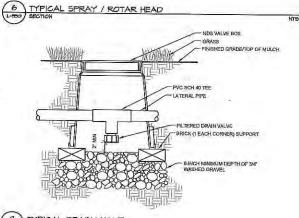




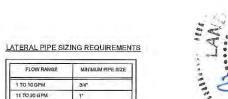
LINE BOTTOM OF VALVE PIT WITH LANDSCAPE FABRIC, MAINTAIN CLEAR SPACE BETWEEN BOTTOM OF VALVE PIT AND VALVE, DO NOT ALLOW BOX TO REST ON PIPE.



LATERAL PIPE



9 TYPICAL DRAIN VALVE



91 TO 100 GPM PIPE SIZES ILLUSTRATED IN THE ABOVE CHART ARE SIZE ALL LATERAL PIPING TO KEEP ALL FRICTION LOSS VELOCITIES BELOW 5.0 FPS.

1-1/4

1-1/2

2-1/2*

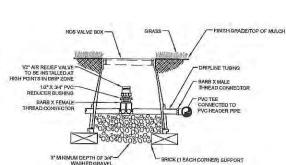
21 TO 30 GPM

31 TO 40 GPM

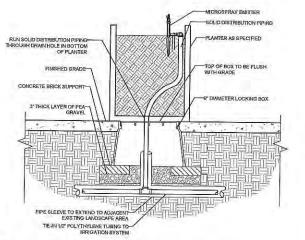
41 TO 60 GPM

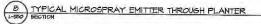
51 TO 90 GPM

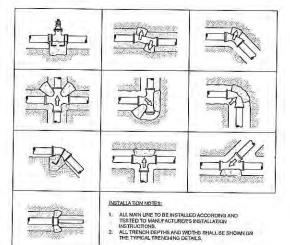












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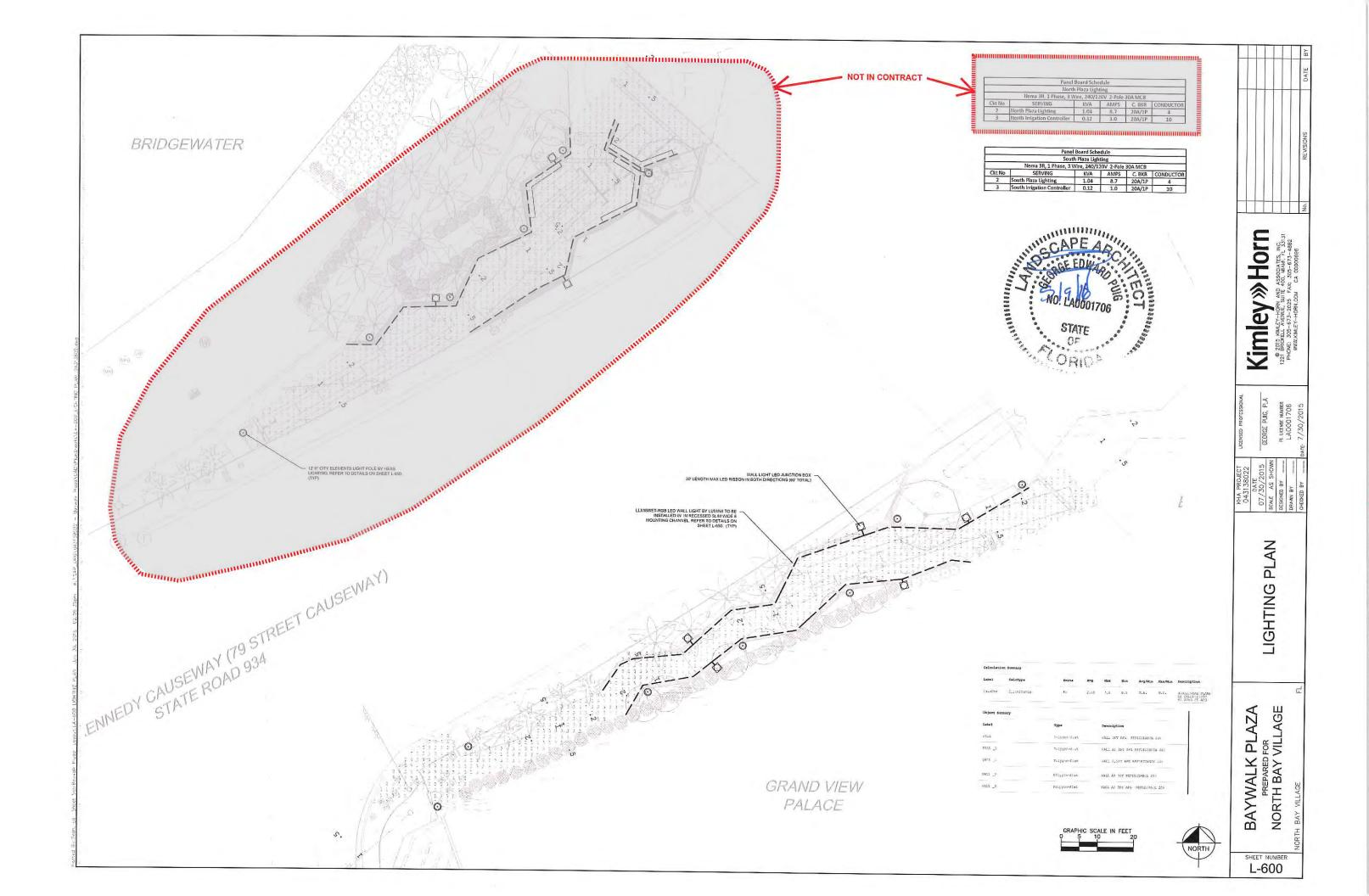
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TYPICAL THRUST BLOCK



Illuminii

LLX18-RGB Wet | Color-changing linear LED strip for wet locations - 24V



perfect lit for every application.

Applications: Indoor/outdoor use, exterior occents, decks, gazebos,

The LLX 18-RGB Wet is a small profile and energy efficient color-changing light strip. It is easily installed directly

on to the mounting surface with double sided tape or within discrete mounting extrusions. The durable

but flexible circuit board enables the



Operating voltage 24 VDC (RGB controller and PSV

Operating temperature

Mounting
ITX18 ROB artip is equipped with 3M self-adhesive tage. Mounting to an aluminum profile or the HST aleminum heat shift kope is requised to reach the rated 50,000 hours average life.

Beam Angle 120

Average life 50,000 hours

Technical specifications

MODEL	LLX18-RGB
LEDs/fr	18
Light output	150 lumary it*
Average power consumption (for 15' section	4.6 W/ir*
Amperage load at maximum run	404
Ordering increment	4.00
Moximum run length	30 /
Dimensions	0.39° W

Section start/end options

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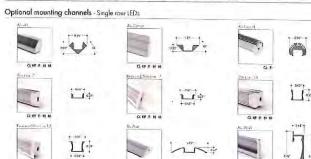
Ordering code



page I of 4

Illuminii

LLX18-RGB Wet | Color-changing linear LED strip for wet locations - 24V







page 4 et 4

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CITY ELEMENTS 230 AA900 LED

City Elements 29 offers design professionals the flexibility of a multi-purpose lighting system in a single architectural structure. The modularity of the light column system allows each column to be customized for area lighting, accenting, waymarking, or pathway illumination or a combination of several different functions. Modules are fully rotabable and adjustable internally for highlighting and alming, Heights range from low level bollarids to columns up to thirty feet tall. Base elements are available in flanged or flangeless models. Optional modules are also available to accomodate security Optional modules are also available to accomodate security cameras or convenience outlets with in-use covers for remote power. Luminaire housings and extruded aluminum shaft with flush handhole are finished in linely textured paint. All hardware is stainless steel. Consult on-line Configurator at www.hessamerica.com for detailed technical specifications and information on CEIBO for smaller diameter columns. CSA Certified for Wet Locations.



Color Temperature	Distribution	Volt	Finish	Option
WW-3000K	ME - Type III		SG - Silver Grev	DIM - 0-10VDC Dimming
		200	\$20738 SH	
NW - 4000K	S - Type II		DG - Dark Grey	N - None
CW - 5600K			GG - Graphite Grey	
			BLK - Matte Black	k
			CC - Custom Color	
NW	S	UNV	CC	N
	WW - 3000K NW - 4000K CW - 5600K	WW - 3000K ME - Type III NW - 4000K S - Type II CW - 5600K	WW-3000K ME-Type III 120-277V NW-4000K S-Type II CW-5600K	WW - 3000K ME - Type III UNV - 120-277V SG - Silver Grey NW - 4000K S - Type II DG - Dark Grey CW - 5600K GG - Graphite Grey BI.K - Matte Blad CC - Custom Cole

Specification

Specifications are subject to change without notification Specifications are audiect of change without notification.

HessAmorfica Products > Lighting Products > Illuminating Columns > CITY ELEMENTS 230. http://www.hessamorfica.com/Products/Lighting/Illuminating_Columns/CITY_ELEMENTS_230/

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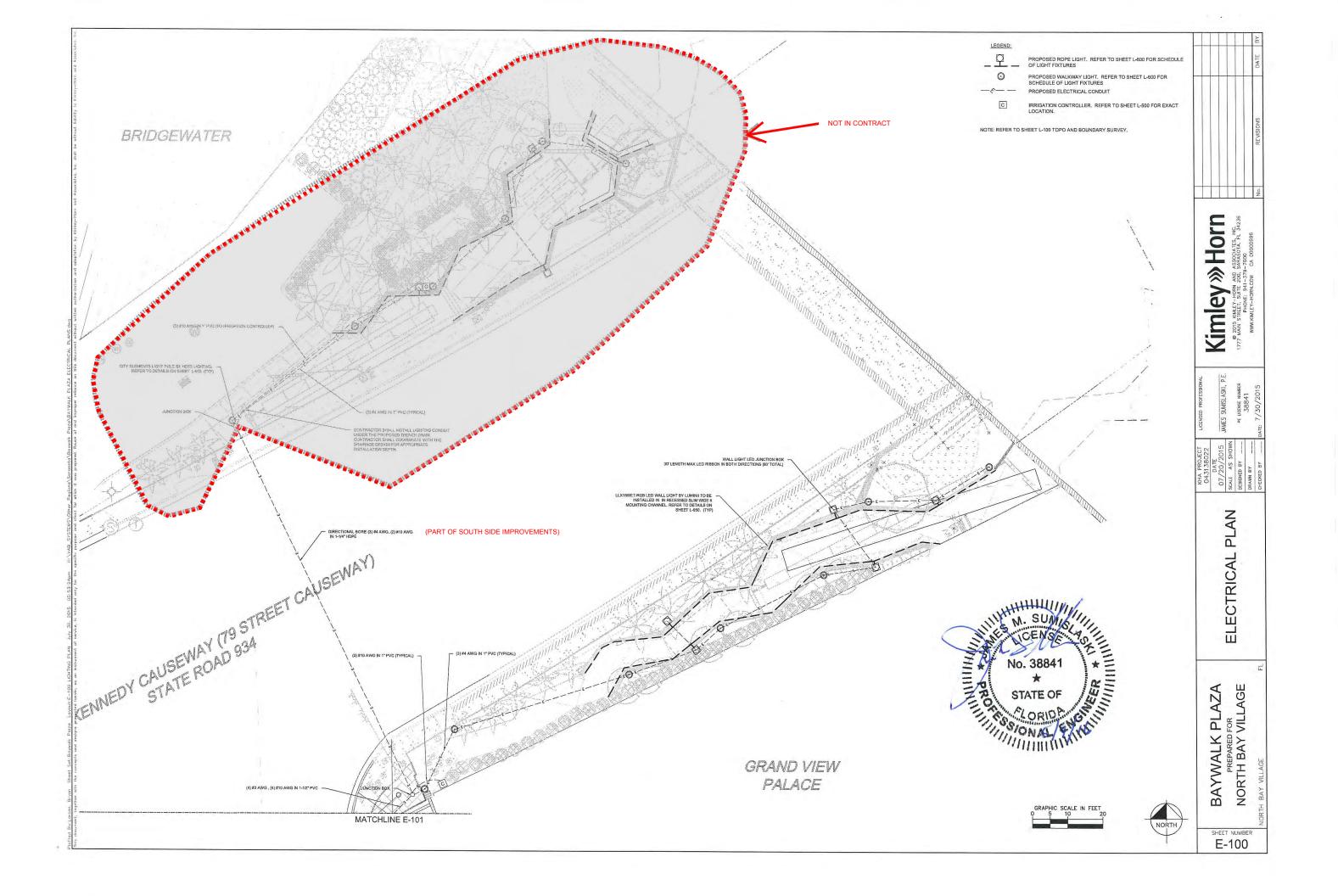
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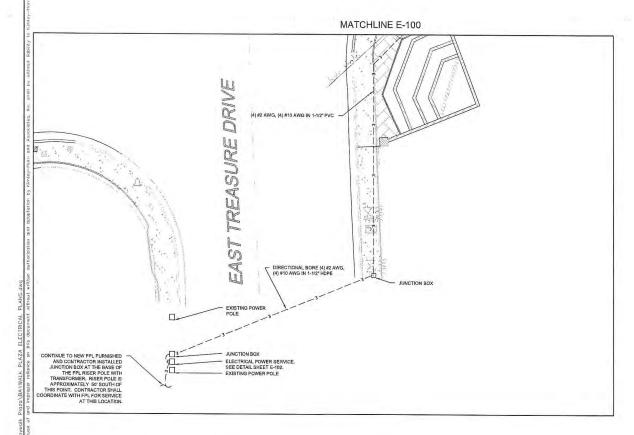
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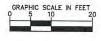
Kimley» Horn
120 BOODS KIMLEY-HORN AND ASSOCIATES INC.
121 BROCKEL AND SOCIATES INC.
PHORN. 205 – 873 – 4882
WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT 043138022 0ATE 07/30/2015 SCALE AS SHOW DESGNED BY KH S ETAIL **LIGHTING**

BAYWALK PLAZA PREPARED FOR NORTH BAY VILLAGE









LEGEND:

PROPOSED ROPE LIGHT. REFER TO SHEET L-600 FOR SCHEDULE OF LIGHT FIXTURES

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PROPOSED WALKWAY LIGHT, REFER TO SHEET L-600 FOR SCHEDULE OF LIGHT FIXTURES

PROPOSED ELECTRICAL CONDUIT

NOTE: REFER TO SHEET L-100 TOPO AND BOUNDARY SURVEY.

LIGHTING NOTES:

- 1. THE CONTRACTOR SHALL PERFORM AN INVENTORY OF THE EXISTING LIGHTING SYSTEM PRIOR TO THE BEGINNING OF CONSTRUCTION ACTIVITIES. A WRITTEN REPORT WILL BET REPORT WILL BET REPORT WILL BE FORWARDED TO THE PROJECT ENGINEER WITH COPIES TO THE MAINTAINING AGENCY PRIOR TO THE BEGINNING OF CONSTRUCTION.
- ENDS OF CONDUITS SHALL BE SEALED WITH POLYURETHANE FOAM AFTER WIRING IS COMPLETE. FOAM SEAL SHALL NOT BE USED AS A MEANS TO PROTECT CONDUCTORS FROM ABRASION IN RACEWAYS. GALVANIZED RIGID METAL CONDUIT SHALL HAVE PROPER FITTINGS TO PROTECT CONDUCTORS FROM ABRASION.
- ATTACH LIGHTNING ARRESTOR TO THE WALL OF THE PULL BOX BY MEANS OF A SELF-TAPPING SCREW OR BY A MASONRY SCREW. CARE SHOULD BE EXERCISED WHEN
 UTILIZING THIS METHOD NOT TO BREAK THE SUPPORTING TABS; SCREWS SHOULD BE FIRM BUT NOT SNUG AGAINST THE SUPPORTING TABS.
- 4. PROVIDE TWO 5/8" X 20" COPPER CLAD STEEL GROUNDING ELECTRODES AT EACH SERVICE POINT. THEY MUST BE SPACED A MINIMUM OF SIX FEET AND SIX INCHES FROM EACH OTHER WHEN INSTALLED AS AN ARRAY, WHEN THE GROUNDING ELECTRODE CONDUCTOR IS ENCLOSED IN A METAL RACEWAY, BOTH ENDS OF THE RACEWAYS AND ALL INTERVENING RACEWAYS AND METALLIC ENCLOSURES CONTAINING THE GROUNDING ELECTRODE CONDUCTOR MUST BE BONDED TO THE GROUNDING ELECTRODE CONDUCTOR.
- 5. ALL AERIAL GROUNDING CONNECTIONS SHALL BE EXOTHERMICALLY WELDED AS PER F.D.O.T. SPECIFICATIONS SECTION 715-11 WHERE THE POLE CABLE DISTRIBUTION SYSTEM IS EMPLOYED (MG SQUARE, DOT 3), GROUNDING CONNECTIONS TO THE DISTRIBUTION BLOCK AND LIGHTNING ARRESTER OR OTHER DEVICES CONTAINING LEADS SWALLER THAM #5 SWO, SHALL BE DONE BY MECHANICAL CONNECTIONS OR OTHER APPROVED MEANS.
- 6. THE CONTRACTOR SHALL CHECK THE CONTINUITY OF GROUNDING CONDUCTOR USING MEGGER OR EQUAL LOW RESISTANCE / HIGH CAPACITY OHMMETER CALIBRATED WITHIN THE PAST 180 DAYS. A NEUTRAL / GROUND LOOP RESISTANCE OF MORE THAN 0.5 OHMS-PER THOUSAND FEET SHALL BE CONSIDERED INADEQUATE.
- 7. ONLY LINE CONDUCTORS WILL BE PERMITTED IN SERVICE PULL BOX. NO GROUND RODS OR ANY OTHER ITEMS OR DEVICES SHALL BE ALLOWED.
- 8. LIGHT POLE FOUNDATIONS SHALL BE INSTALLED AT A GRADE THAT IS FLUSH WITH THE ADJACENT AND SURROUNDING SIDEWALK,
- 9. THE COST TO RESTORE THE EXISTING SIDEWALK TO THE NEAREST FLAG JOINT SHALL BE INCLUDED IN BID ITEMS ASSOCIATED WITH THE POLE INSTALLATION.
- 10. POLE CABLE DISTRIBUTION SYSTEM USED SHALL BE MG SQUARE DOT 3 AS DESCRIBED IN STANDARD SPECIFICATIONS SUBARTICLE 992-12.2.
- 11. SPLICES FOR #4 AWG AND #6 AWG CONDUCTORS SHALL UTILIZE THE MOLDED SPLICE KIT TYCO-RAYCHEM CATALOG # GELCAP-SL-2/0-3 HOLE.
- 12. NO UNNECESSARY SPLICING WILL BE PERMITTED IN PULL BOXES
- 13. WHERE CONVENTIONAL WIRING SYSTEMS ARE EMPLOYED OR THE EXISTING POLES ARE UTILIZED, CONDUCTORS SHALL BE SO ROUTED AND COORDINATED AS TO TERMINATE ON THE LINE SIDE OF THE FUSE-HOLDERS (HEB'S & HEBR'S).
- 14. PAYMENT FOR CONDUCTOR SHALL BE BASED ON THE LINEAR FEET OF SINGLE CONDUCTOR IN HORIZONTAL MEASUREMENT. NO ALLOWANCES SHALL BE MADE FOR CONNECTION IN PULL BOXES, CABINETS OR POLES,
- 15. THE CONTRACTOR IS RESPONSIBLE TO PAY THE POWER COMPANY THE COST OF PROVIDING ELECTRICITY TO THE TEMPORARY AND PROPOSED LIGHTING FROM THE MOMENT THE EXISTING SERVICE IS DISCONNECTED UNTIL FINAL ACCEPTANCE OF THE NEW LIGHTING BY THE MAINTAINING AGENCY, COST TO BE INCLUDED IN PAY ITEM 102-1 MAINTENANCE OF TRAFFIC
- 16. ABOVE GROUND UTILITY LOCATIONS SHOWN IN THE PLANS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY THIS INFORMATION BY PRE-TRENCHING THE LOCATION OF PROPOSED LIGHT POLES PRIOR TO SUBMITTING SHOP DRAWINGS, COST OF PRE-TRENCHING TO BE INCLUDED IN THE COST OF THE LIGHT POLES.
- 17. CONTRACTOR SHALL ADJUST LOCATION OF PROPOSED LIGHT POLES AND CONDUIT ACCORDINGLY TO AVOID UTILITY FIELD CONFLICTS, FINAL LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
- 18. THE LOCATION OF UTILITIES WITHIN THE JOHN F. KENNEDY CAUSEWAY RIGHT OF WAY WERE UNKNOWN AT THE TIME OF DESIGN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION WITH UTILITIES.

No. 38841

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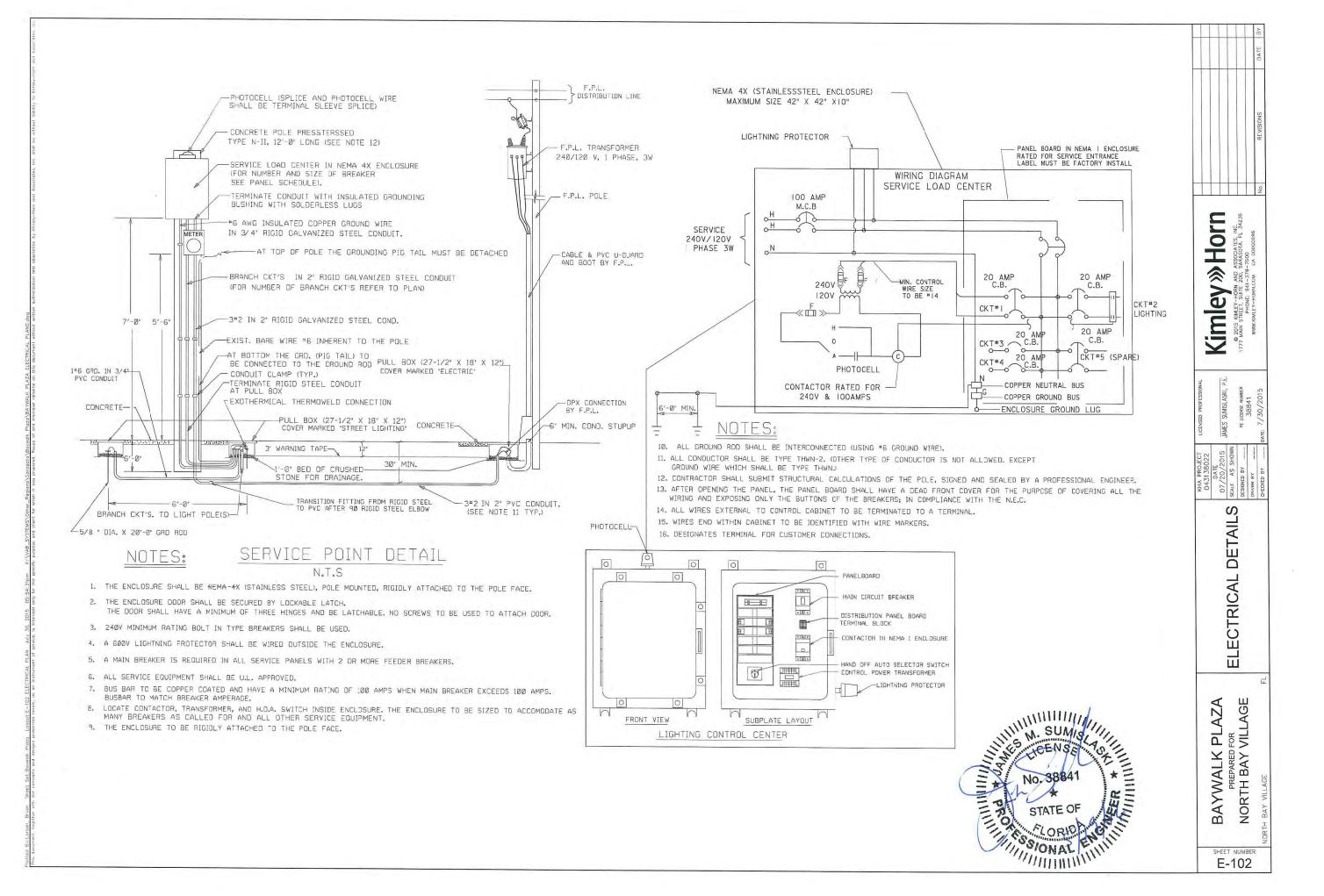
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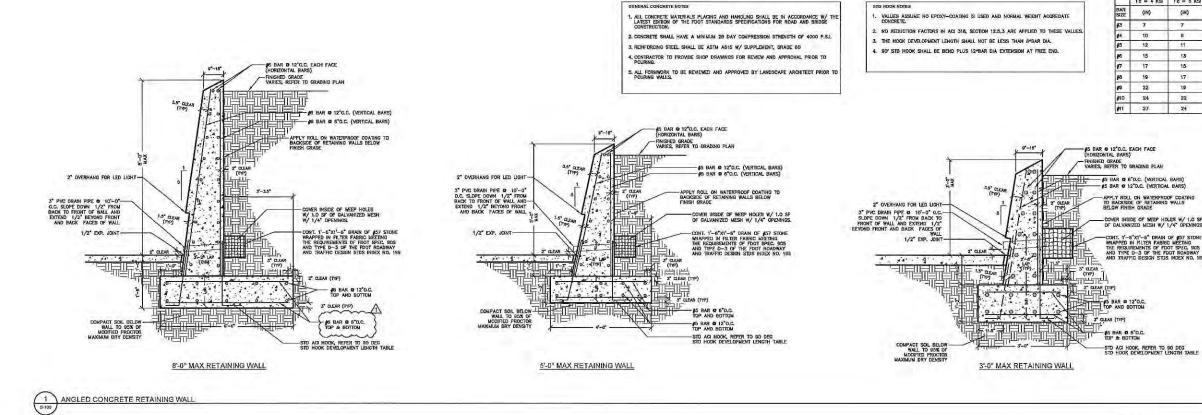
JAMES SUMISLASKI, P.E.
PE LICENSE NUMBER
38841

DATE 07/20/2015 scale AS SHOWN

ELECTRICAL PLAN

BAYWALK PLAZA PREPARED FOR NORTH BAY VILLAGE





No. 70351

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fc = 4 KS | fc = 5 KS

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. VALUES ASSUME NO EPOXY-COATING IS USED AND NORMAL WEIGHT ACGREGATE CONCRETE.

PLAZA PREPARED FOR NORTH BAY VILLAGE BAYWALK

SHEET NUMBER S-100

STRUCTURAL DETAILS

Kimley» Horn

1221 BROKELL AGNE, SUIT 400, MIAMI, FL 33131
PROKEL SUIT 400, MIAMI, FL 33131
PROKEL 305-92-2025
WWW,KIMLEY-HORN,COM CA GODDOGGSS MARK N. SANTOS, PE

FL LICENSE NUMBER PE #70351

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