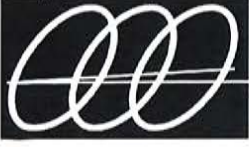


RECEIVED

OCT 26 2018

Letter of Transmittal

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Gentile Glas Holloway O'Mahoney & Associates, Inc. Landscape Architects Planners Environmental Consultants

1907 Commerce Lane Suite 101 Jupiter, Florida 33458 561-575-9557 561-575-5260 FAX www.2GHO.com

COMMUNITY DEVELOPMENT DEPARTMENT

Attention: Jeff Gagnon Date: 26-Oct-18
Company: City of Riviera Beach Project: Crab Pot Site
600 West Blue Heron Blvd.
Riviera Beach, FL 33404
Phone: 845-4037 Job No.: 15-1017
FAX: From: Dan Siemsen

We are sending you:

- Prints
Letter
Originals
Disk copy
Specifications
Color Rendering
Samples
Other

These are transmitted as checked below:

- For approval
For your use
As requested
For review & comments
For bids due
Other

cc: FILE

SEVEN KINGS

Copies Date Description:

Table with 3 columns: Copies, Date, Description. Rows include: 2 10/26/2018 Cover Letter, 2 Oct. 2016 Uniform Land Use Application & Agent Authorization, 2 Feb. 2015 Warranty Deed, 2 Sept. 2015 Lease Agreement, 2 Apr. 2017 Parking Easement & Agreement, 2 Oct. 2016 FDOT Drainage Permit, 2 Apr. 2017 FDOT Utility Permit, 2 Sept. 2016 Utility Letter from CRB, 2 Oct. 2018 Traffic Consultant Letter & PBC Traffic Letter (Sept 2016), 2 Oct. 2015 Survey, 2 Oct. 2018 Site Plan (Sheet 1 & 2), 2 Mar & Apr '17 Landscape and Irrigation Plans, 2 Oct. 2016 Civil Plans and Drainage Calcs, 2 02 Typical Dock Details, 2 Feb. 2017 Arch Plans & Arch. Color Elevations, 2 Dec. 2016 Photometric Plan and Cut Sheets

Remarks:

Disc copy of all items

Hand delivered

Signed

[Handwritten signature]

VIA HAND DELIVERY

October 26, 2018

Mr. Jeff Gagnon, AICP
Acting Director of Development Services
Department of Community Development
City of Riviera Beach
600 West Blue Heron Blvd.
Riviera Beach. FL 33404

Re: Planning & Zoning Board (2018) Narrative letter
Site Plan (SP-16-18) – Crab Pot site

Dear Mr. Gagnon:

Since our first Planning & Zoning Commission presentation over a year ago much has transpired in terms of addressing questions and issues raised by the public, some Marina Grande residents, and the City's CRA Board. At Staff's suggestion and request we are returning to the Planning & Zoning Commission to present clarification to those various matters.

As was the case previously, with Staff's concurrence, the original application was, and remains, in complete accord with the City's requirements. The same plan as originally submitted has been supplemented with some comments and further notes to memorialize those addressed items, along with some additional collateral material in further support thereof.



While a myriad of questions has been raised and addressed, the two principal concerns raised are:

- The matter of the FDOT lease and what happens if it should cease; and
- Our meeting the City's parking requirements as it pertains to the off-site parking.

Addressing the first of these concerns, which was if the FDOT Lease were to be terminated, what will happen to the site. Any lease termination will still require that FDOT provide access to our site. Accordingly, we have reflected on our respondent site plan what such on-site connections would look like, showing retention of the currently-shown on-site twelve (12) parking spaces along with a sidewalk connection to the right-of-way. Note that there is no building envelope change required and the on-site design remains the same other than *de minimis* revisions to the parking area curb cut at the entrance to the parking area. As is the case currently, the remaining required three (3) parking spaces are handled off-site via the recorded Easement and Dedication Agreement (*provided previously to the City and provided again with this update*) between Inlet Marina of Palm Beach, Ltd., and Seven Kings Holdings, Inc. ("Off-site Easement"). Therefore, approval of this site plan is not dependent upon the FDOT lease to be compliant with City's land development regulations.

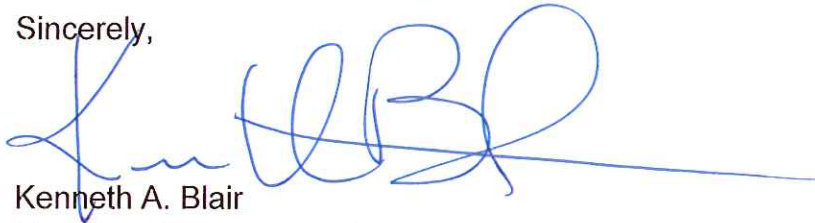
As to the second concern, we have included an additional exhibit (Sheet FSP-2) illustrating the locations of the off-site parking locations identified and further described in the recorded Off-site Easement. Previous documentation has been provided to the City reconfirming the current property owner's (Suntex Marinas) confirmation of this Off-site Easement and its existence, and their concurrence therewith. Confirming our position from the outset of this process, the City's land development regulations require fifteen (15) parking spaces for this restaurant. Twelve (12) have been provided on-site. The remaining three (3) spaces are located off-site in accord with applicable City regulations. In fact, we are providing a total of 75 off-site by virtue of the Off-site Easement Agreement. Therefore, this site plan, from a parking standpoint, is more than compliant with the City's land development regulations.

Otherwise, this request for a recommended approval remains as originally presented to the Planning & Zoning Commission with the restaurant floor plans, elevations, and other previously submitted materials unchanged and land development compliant.



Should there be further questions or additional information required please do not hesitate to contact our offices.

Sincerely,



Kenneth A. Blair
Director of Development
Seven Kings Holdings

Encl.

Cc: F. Martin Perry, Esq.
Tyson W. Waters, Esq.



For Staff Use Only

City of Riviera Beach Community Development Department 600 W. Blue Heron Boulevard Riviera Beach, Florida 33404 Phone: (561) 845-4060 Fax : (561) 845-4038	Date:	Case Number:
	Project Title:	
	Fee Paid:	Notices Mailed:
	1 st Hearing:	2 nd Hearing:
	Publication Dates (if required)	

UNIFORM LAND USE APPLICATION

(Please attach separate sheet of paper for required additional information)

Complete appropriate sections of Application and sign.

APPLICANT	Name of Property Owner(s):	RIVIERA SHORES LLC		
	Mailing Address:	800 NORTH ROAD, BOYNTON BEACH, FL 33435-3238		
	Property Address:	306 EAST BLUE HERON BLD., RIVIERA BEACH		
	Name of Applicant (if other than owner):	SEVEN KINGS HOLDINGS, INC.		
	Home: ()	- N/A -	Work: (561) 625-9443	Fax: (561) 625-5689
	E-mail Address:	KEN@SKHOLDINGS.COM		

PLEASE ATTACH LEGAL DESCRIPTION

PROPERTY	Future Land Use Map Designation:	DOWNTOWN MIXED USE	Current Zoning Classification:	DOWNTOWN - GENERAL (CITY) IHC-PUD: INLET HARBOR CR (CRA)
	Square footage of site:	14,819 SF	Property Control Number (PCN):	56-43-42-28-00-003-0090
	Type and gross area of any existing non residential uses on site:	VACANT SITE		
	Gross area of any proposed structure:	4,500 [±] SF		
	Is there a current or recent use of the property that is/was in violation of City Ordinance? [] Yes [X] No	- N/A -		
	If yes, please describe:	- N/A -		
	Have there been any land use applications concerning all or part of this property in the last 18 months? [] Yes [X] No	- N/A -		
	If yes, indicate date, nature and applicant's name:	- N/A -		
	Briefly describe use of adjoining property:	North:	MARINA GRANDE TOWERS	
		South:	BLUE HERON BLVD BRIDGE & SERVICE ROAD	
	East:	INTRACASTAL WATERWAY		
	West:	MARINA GRANDE CONDO PARKING STRUCTURE		

REZONE	Requested Zoning Classification:	NO CHANGE FROM EXISTING ZONING.
	Is the requested zoning classification contiguous with existing?	- N/A -
	Is a Special Exception necessary for your intended use? [] Yes [X] No	
	Is a Variance necessary for your intended use? [] Yes [X] No	

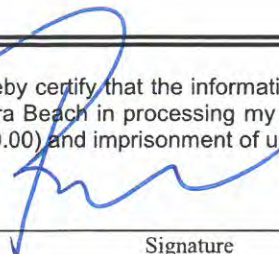
FUTURE LAND USE	Existing Use: <u>VACANT LAND</u>	Proposed Use: <u>RESTAURANT</u>
	Land Use Designation: <u>DOWNTOWN MIXED USE</u>	Requested Land Use: <u>DOWNTOWN MIXED USE</u>
	Adjacent Land Uses: North: <u>RESIDENTIAL (CONDOS)</u>	South: <u>BLUE HERON BLVD. BRIDGE / SERVICE ROAD</u>
	East: <u>ICW</u>	West: <u>PARKING GARAGE FOR CONDO BLDG.</u>
	Size of Property Requesting Land Use Change: <u>— N/A —</u>	

SPECIAL EXCEPTION	Describe the intended use requiring a Special Exception:
	Provide specific LDR ordinance section number and page number:
	How does intended use meet the standards in the Land Development Code?
	Demonstrate that proposed location and site is appropriate for requested use:
	Demonstrate how site and proposed building(s) have been designed so they are compatible with adjacent uses and neighborhoods:
	Demonstrate any landscaping techniques to visually screen use from adjacent uses:
	Demonstrate what is proposed to reduce the impact of any potential hazards, problems, public nuisances generated by use:
	Demonstrate how utilities and other service requirements of the use can be met:
	Demonstrate how the impact of traffic generated will be handled:
	On-site:
Off-Site:	
Other:	

VARIANCE	Describe the Variance sought:
	Demonstrate that the Variance is needed to overcome a hardship caused by the unique physical conditions of the site:
	Specify the minimum Variance requirements including: height, lot area, size of structure, size of yard, setback, buffer or open space:
	Other:

SITE PLAN	Describe proposed development: WATERFRONT RESTAURANT
	Demonstrate that proposed use is appropriate to site: HISTORICAL USE OF PROPERTY WAS A FORMER RESTAURANT (CRAB POT)
	Demonstrate how drainage and paving requirement will be met: DRAINAGE WILL BE MET USING EXFILTRATION TRENCH & A PIPED DRAINAGE SYSTEM TO THE FDOT DRAINAGE SYSTEM ON THE SERVICE ROAD. PARKING & DRIVE AISLE AREAS WILL BE PAVED.
	Demonstrate any landscaping techniques to visually screen use from adjacent uses: THE SITE IS ALREADY SCREENED ALONG THE NORTH SIDE (CONDO TOWER) & WEST SIDE (PARKING STRUCTURE) NO SCREENING IS PROPOSED FOR WATERFRONT, & SOUTH SIDE IS SCREENED BY ELEVATED BRIDGE EMBANKMENT.
	Demonstrate what is proposed to reduce the impact of any potential hazards, problems, public nuisances generated by use: PROJECT IS BEING RE-DEVELOPED INTO SAME USE AS PREVIOUSLY ON SITE. TRAFFIC IMPACT WILL BE NO MORE THAN PREVIOUSLY THERE, & IMPROVED PEDESTRIAN/BOATER ACCESS IS ANTICIPATED.
	Demonstrate how utilities and other service requirements of the use can be met: PROPOSED USE MEETS CONCURRENCY.
	Demonstrate how the impact of traffic generated will be handled: On-site: SEE ATTACHED TRAFFIC STATEMENT Off-site:

OTHER	COMMUNICATION TOWER CO-LOCATION REQUIREMENTS:
	<ul style="list-style-type: none"> • Three sets of signed and sealed Construction documents, elevations and all equipment shelters, cabinets, Coax, telephone and power conduits identified. These plans will then be used to obtain the Building Permit. • Antenna manufacture cut sheets including antenna size and shape. • Zoning map of area with site clearly marked. • Photos of existing building or tower and surrounding uses. • Letter of non-interference and FCC compliance from applicant's Radio Frequency Professional. • Map of surrounding carrier existing locations in all directions with type i.e. Guyed, Self-Support, Monopole, Rooftop. • Letter of structural capacity and building code compliance. • Notes on plan or letter demonstrating floor area coverage not in excess of restrictions • Provide Photo Enhancements of proposal. • Statement that proposal is in compliance with Environmental Regulations prior to permit issue.

Confirmation of Information Accuracy	
I hereby certify that the information on this application is correct. The information included in this application is for use by the City of Riviera Beach in processing my request. False or misleading information may be punishable by a fine of up to five hundred dollars (\$500.00) and imprisonment of up to thirty (30) days and may result in the summary denial of this application.	
 Signature	SEVEN KINGS HOLDINGS, INC. BY: RAYMOND E GRAZIOTTO, PRES. Oct 3, 2016 Date

AGENT AUTHORIZATION FORM

Owner(s) of Record: RIVIERA SHORES LLC, BY ANDREW PODRAY, AMBR

STATE OF FLORIDA
COUNTY OF PALM BEACH

BEFORE ME, the undersigned authority personally appeared ANDREW PODRAY

who, being first duly sworn upon oath and personal knowledge say(s) that they are the owner(s) of record of the following described real property:

PCN 56-43-42-28-00-003-0090

the street address of which is: 386 EAST BLUE HERON BLVD., RIVIERA BEACH, FL

and that we hereby appoint:

Name: SEVEN KINGS HOLDINGS, INC & ITS DESIGNEES

Address: 630 MAPLEWOOD DRIVE, SUITE 100
JUPITER, FL 33458

Telephone: (561) 625-9443

as our authorized agent, to file applications and papers with the City of Riviera Beach, and to represent me (us) at any Hearing regarding my (our) interest.

[Signature] (Seal)
[Signature] (Seal)
[Signature] (Seal)

Sworn to and subscribed before me this 29 day of SEPTEMBER, 2016.

[Signature]
Notary Public



AGENT AUTHORIZATION FORM

Owner(s) of Record: RIVIERA SHORES LLC, BY ANDREW PODRAY, AMBR

STATE OF FLORIDA
COUNTY OF PALM BEACH

BEFORE ME, the undersigned authority personally appeared ANDREW PODRAY

who, being first duly sworn upon oath and personal knowledge say(s) that they are the owner(s) of record of the following described real property:

PC# 56-43-42-28-00-003-0090

the street address of which is: 586 EAST BLUE HERON BLVD., RIVIERA BEACH, FL
and that we hereby appoint:

Name: SEVEN KINGS HOLDINGS, INC. & ITS DESIGNEES
Address: 630 MAPLEWOOD DRIVE, SUITE 100
JUPITER, FL 33458
Telephone: (561) 625-9443

as our authorized agent, to file applications and papers with the City of Riviera Beach, and to represent me (us) at any Hearing regarding my (our) interest.

[Signature] (Seal)
[Signature] (Seal)
[Signature] (Seal)

Sworn to and subscribed before me this 29 day of SEPTEMBER, 2016.

[Signature]
Notary Public



AGENT AUTHORIZATION FORM

Owner(s) of Record: ^{AUTHORIZATION TO:} SEVEN KINGS HOLDINGS, INC. & ITS
DESIGNEES

STATE OF FLORIDA
COUNTY OF PALM BEACH

BEFORE ME, the undersigned authority personally appeared RAYMOND E.
GRAZIOTTO

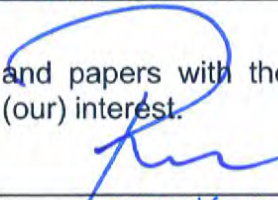
who, being first duly sworn upon oath and personal knowledge say(s) that they are the owner(s) of
record of the following described real property: TENANT

PCN 56-43-42-28-00-003-0090

the street address of which is: 386 EAST BLUE HERON BLVD., RIVIERA BEACH, FL
and that we hereby appoint:

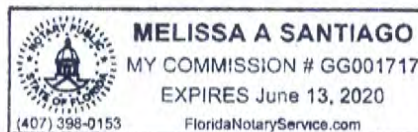
Name: GENTILE, GLAS, HOLLOWAY, O'MATTONEY & ASSOC., INC.
Address: 1907 COMMERCE LANE, SUITE 101
JUPITER, FL 33458
Telephone: (561) 575-9557

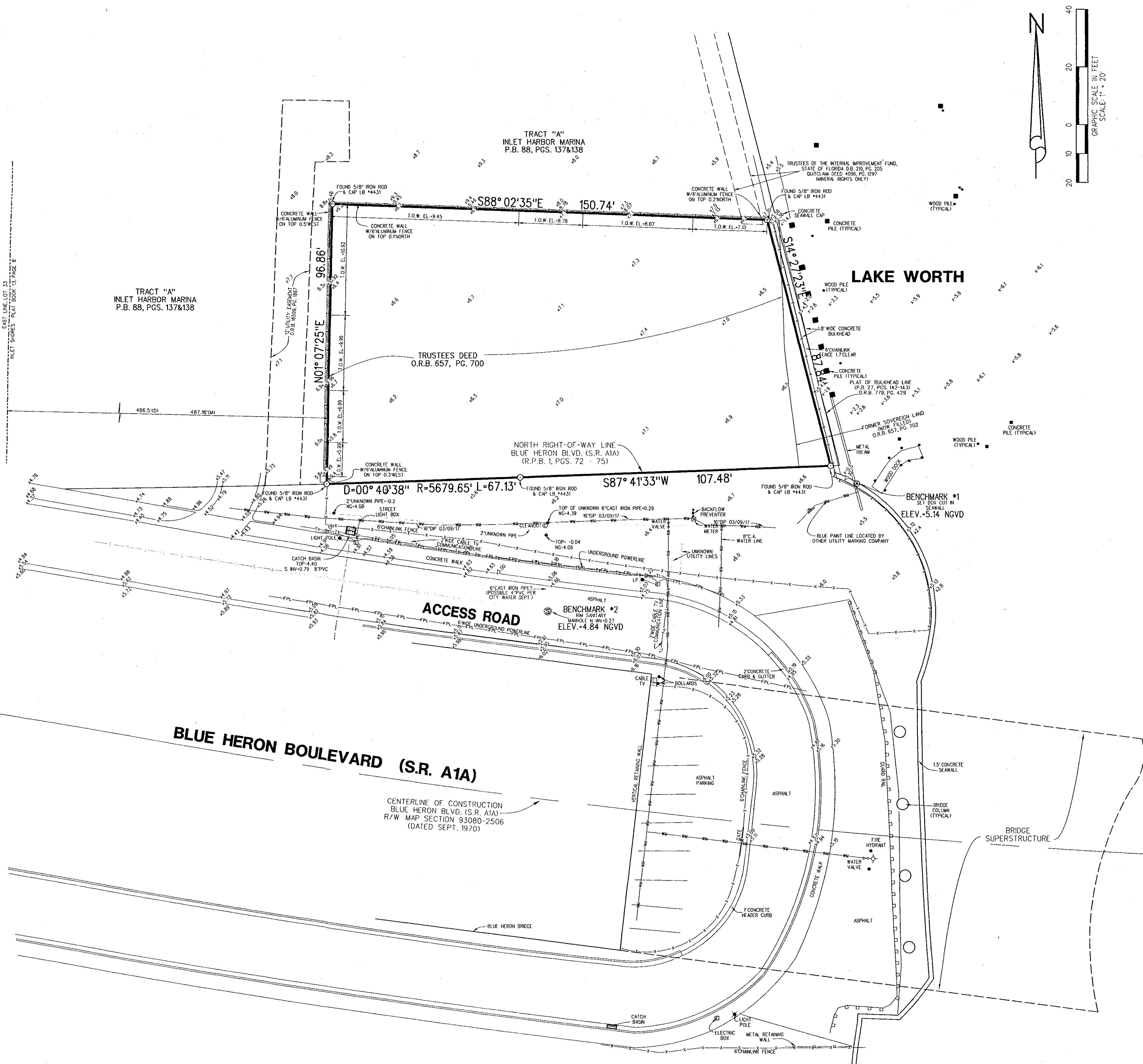
as our authorized agent, to file applications and papers with the City of Riviera Beach, and to
represent me (us) at any Hearing regarding my (our) interest.


SEVEN KINGS HOLDINGS, INC. (Seal)
RAYMOND E GRAZOTTO (Seal)
PRESIDENT (Seal)

Sworn to and subscribed before me this 7th day of DECEMBER, 2014.

Melissa A Santiago
Notary Public





SHOWN HEREIN AFFECTS PROPERTY NOT FLOTTABLE DOES NOT AFFECT THE PROPERTY	NOT ADDRESSED BY THIS SURVEY
COMMONWEALTH LAND TITLE INSURANCE COMPANY COMMITMENT ORDER NO.: 5130409 EFFECTIVE DATE JANUARY 23, 2015 AT 8:00 A.M.	
●	1. Defects, liens, encumbrances, adverse claims or other matters, if any, created, first appearing in the public records or attaching subsequent to the effective date hereof but prior to the date the proposed insured acquires for value of record the estate or interest or mortgage thereon covered by this Commitment.
●	2. Taxes and assessments for the year 2015 and subsequent years, which are not yet due and payable.
●	3. Standard Exceptions: A. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land. B. Rights or claims of parties in possession not shown by the public records. C. Any lien, or right to a lien, for services, labor, or materials heretofore or hereafter furnished, imposed by law and not shown by the public records. D. Taxes or assessments which are not shown as existing liens in the public records.
●	4. Any claim that any portion of the insured land is sovereign lands of the State of Florida, including submerged, filled or artificially exposed lands accreted to such land.
●	5. Any lien provided by County Ordinance or by Chapter 159, Florida Statutes, in favor of any city, town, village or port authority for unpaid service charges for service by any water, sewer or gas system supplying the insured land.
●	6. Subject to the right of way of State Road No. 703 (Blue Heron Boulevard), as shown on the map of the same recorded in Road Map Book 1, Page 73, of the Public Records of Palm Beach County, Florida.
●	7. City of Riviera Beach Ordinance No. 432, establishing the Bulkhead Line along the West side of Lake Worth, as approved by the Trustees of the Internal Improvement Fund of the State of Florida, by Certificate of Approval recorded March 22, 1962, in Official Records Book 779, Page 479, and according to the plat of Bulkhead Line, Riviera Beach, Florida, recorded in Plat Book 27, Page 142.
●	8. Reservations by Trustees of the Internal Improvement Fund of the State of Florida for phosphate, minerals, metals, and petroleum, set forth in Deed No. 22842 (931-50) recorded January 24, 1961, in Official Records Book 657, Page 702. As to said reservations, the right of entry has been released pursuant to F.S. 270.11.
●	9. Terms, conditions, provisions and obligations of the Utility Easement from Trustees of the Internal Improvement Fund of the State of Florida to the Florida Power & Light Company, recorded October 30, 2008, in Official Records Book 22930, Page 1474.
●	10. Any and all rights of the United States of America over artificially filled lands in what were formerly navigable waters, arising by reason of the United States of America's control over navigable waters in the interest of navigation and commerce, and any conditions contained in any permit authorizing the filling in of such areas.
●	11. The inalienable rights of the public to use the navigable waters covering the lands described on Schedule A.
●	12. Notwithstanding the legal description in Schedule A, this Policy does not insure title to any lands lying below the mean or ordinary high water line of any navigable or tidally influenced waters.
●	13. The nature, extent or existence of riparian or littoral rights is not insured.

PROPERTY DESCRIPTION

THE SOUTH 125 FEET OF THE NORTH 677.56 FEET OF GOVERNMENT LOT 3, SECTION 28, TOWNSHIP 42 SOUTH, RANGE 43 EAST, LYING WEST OF THE HIGH WATER MARK OF LAKE WORTH AND EAST OF A LINE 486.5 FEET EAST OF AND PARALLEL TO THE EAST LINE OF LOT 33 OF INLET SHORES, ACCORDING TO THE PLAT THEREOF RECORDED IN THE OFFICE OF THE CLERK OF THE CIRCUIT COURT IN AND FOR PALM BEACH COUNTY, FLORIDA, IN PLAT BOOK 13, PAGE 8.

BEING THE SAME PROPERTY CONVEYED TO HARRY SIMMONS AND VESTA SIMMONS, HIS WIFE, FROM STAFFORD BACON BEACH AND JOHN BERNARD BEACH, INDIVIDUALLY AND AS CO-EXECUTORS OF THE ESTATE OF ANNIE B. BEACH, DECEASED, JOINED BY THEIR WIVES, CATHERINE B. BEACH AND HILDA MARY BEACH, RESPECTIVELY, BY DEED DATED DECEMBER 23, 1957, RECORDED IN OFFICIAL RECORD BOOK 148, PAGE 450, PALM BEACH COUNTY, FLORIDA, PUBLIC RECORDS.

SUBJECT TO THE RIGHT OF WAY OF STATE ROAD NO. 703 AS SHOWN ON THE MAP OF THE SAME RECORDED IN ROAD MAP BOOK 1, PAGE 73, PALM BEACH COUNTY, FLORIDA, PUBLIC RECORDS.

TOGETHER WITH ALL OF THAT REAL PROPERTY CONVEYED BY TRUSTEES OF THE INTERNAL IMPROVEMENT FUND OF THE STATE OF FLORIDA DEED DATED JULY 14, 1961, RECORDED IN OFFICIAL RECORD BOOK 657, AT PAGE 702, PALM BEACH COUNTY, PUBLIC RECORDS, MORE PARTICULARLY DESCRIBED AS:

A PARCEL OF SUBMERGED LAND IN SECTION 28, TOWNSHIP 42 SOUTH, RANGE 43 EAST, PALM BEACH COUNTY, FLORIDA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT A POINT IN THE HIGH WATER LINE ON THE WEST SHORE OF LAKE WORTH, SAID POINT BEING IN A LINE 552.56 FEET SOUTH OF AND PARALLEL TO THE NORTH LINE OF GOVERNMENT LOT 3, OF SAID SECTION 28, AT A DISTANCE OF 640.36 FEET EAST OF THE EAST LINE OF LOT 33, INLET SHORES SUBDIVISION, ACCORDING TO THE PLAT THEREOF, RECORDED IN PLAT BOOK 13, PAGE 8, PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA, SAID POINT BEING ALSO IN THE CITY OF RIVIERA BEACH BULKHEAD LINE, ESTABLISHED BY ORDINANCE NO. 432, ON OCTOBER 1, 1957, AND THE POINT OF BEGINNING OF THE HEREIN DESCRIBED TRACT OF LAND; THENCE SOUTH 14°27'23" EAST, ALONG SAID CITY OF RIVIERA BEACH BULKHEAD LINE, A DISTANCE OF 87.63 FEET TO A POINT IN THE NORTH RIGHT OF WAY LINE OF STATE ROAD NO. 703, EXTENDED EASTERLY ACCORDING TO THE PLAT THEREOF RECORDED IN ROAD PLAT BOOK 1, AT PAGE 73, PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA; THENCE SOUTH 87°41'10" WEST ALONG SAID NORTH RIGHT OF WAY LINE OF STATE ROAD NO. 703, A DISTANCE OF 14 FEET TO A POINT IN THE SAID HIGH WATER LINE ON THE WESTERLY SHORE OF LAKE WORTH, SAID POINT BEING THE FACE OF A TIMBER BULKHEAD, THENCE NORTH 7°03'50" WEST, ALONG SAID HIGH WATER LINE AND THE FACE OF SAID TIMBER BULKHEAD, A DISTANCE OF 41 FEET; THENCE NORTH 2°22'04" WEST, ALONG SAID HIGH WATER LINE, A DISTANCE OF 44.78 FEET TO THE P.O.B.

AND ALL OF THAT REAL PROPERTY CONVEYED IN TRUSTEES OF THE INTERNAL IMPROVEMENT FUND OF THE STATE OF FLORIDA DEED DATED JULY 14, 1961, RECORDED IN OFFICIAL RECORD BOOK 657, AT PAGE 700, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

A TRACT OF SOVEREIGNTY LAND NOW FILLED, IN SECTION 28, TOWNSHIP 42 SOUTH, RANGE 43 EAST, PALM BEACH COUNTY, FLORIDA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGIN AT A POINT IN A LINE 552.56 FEET SOUTH OF AND PARALLEL TO THE NORTH LINE OF GOVERNMENT LOT 3 OF SAID SECTION 28, AT A DISTANCE OF 486.5 FEET EAST OF THE EAST LINE OF LOT 33, INLET SHORES SUBDIVISION, ACCORDING TO THE PLAT THEREOF, RECORDED IN PLAT BOOK 13, PAGE 8, PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA, SAID POINT BEING ALSO THE NORTHWEST CORNER OF THE HEREIN DESCRIBED TRACT OF LAND; THENCE SOUTH 88°02'35" EAST, ALONG SAID PARALLEL LINE, 133.86 FEET TO A POINT IN THE HIGH WATER LINE ON THE WEST SHORE OF LAKE WORTH; THENCE SOUTH 2°22'04" EAST, ALONG SAID HIGH WATER LINE, 44.78 FEET TO AN EXISTING TIMBER BULKHEAD; THENCE SOUTH 7°03'50" EAST, ALONG THE FACE OF THE SAID TIMBER BULKHEAD, A DISTANCE OF 41 FEET TO A POINT IN THE NORTH RIGHT OF WAY LINE OF STATE ROAD NO. 703, ACCORDING TO THE PLAT THEREOF, RECORDED IN ROAD PLAT BOOK 1, AT PAGE 73, PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA; THENCE SOUTH 87°41'10" WEST, 95.9 FEET ALONG SAID NORTH RIGHT OF WAY LINE OF STATE ROAD NO. 703, TO THE BEGINNING OF A CURVE CONCAVE TO THE NORTH, WHOSE RADIUS IS 5679.65 FEET; THENCE SOUTHWESTERLY AND WESTERLY ALONG THE ARC OF SAID CURVE AND SAID NORTH RIGHT OF WAY LINE, A DISTANCE OF 67.8 FEET TO A POINT IN A LINE PARALLEL TO AND 486.5 FEET EAST OF THE EAST LINE OF SAID LOT 33, INLET SHORES; THENCE NORTH 1°07'25" WEST, ALONG SAID PARALLEL LINE, A DISTANCE OF 96.87 FEET TO THE POINT OF BEGINNING.

CONTAINING 0.331 ACRES, MORE OR LESS.

LESS A 3 FOOT WIDE STRIP OF LAND OVER, THROUGH AND ACROSS A PARCEL OF LAND IN GOVERNMENT LOT 3, SECTION 28, TOWNSHIP 42 SOUTH, RANGE 43 EAST, SAID 3 FOOT WIDE STRIP OF LAND LYING WESTERLY OF AND ABUTTING THE TOWN OF RIVIERA BEACH BULKHEAD LINE AS RECORDED IN PLAT BOOK 27, AT PAGE 142 OF THE PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA; BOUNDED ON THE SOUTH BY THE NORTH RIGHT OF WAY LINE OF STATE ROAD A-1-A (BLUE HERON BOULEVARD) AND BOUNDED ON THE NORTH BY A LINE 552.56 FEET SOUTHERLY OF AND PARALLEL TO THE NORTH LINE OF SAID GOVERNMENT LOT 3.

- ABBREVIATIONS**
- (C) - CALCULATED
 - C.S. - CONCRETE BLOCK STRUCTURE
 - C.M.S. - COMMISSIONER'S MINUTES BOOK
 - CON. - CONCRETE
 - CONC. - CONCRETE
 - D.B. - DEED BOOK
 - F.H. - FIRE HYDRANT
 - F.L. - FLOOD
 - F.P. - FLOOD POWER & LIGHT
 - IR. - IRON PIPE
 - IR. - IRON PIPE
 - L.S. - LICENSE BUSINESS
 - L.P. - LIGHT POLE
 - L.S. - LICENSE SURVEY
 - M. - MEASURED
 - M. - MEASURED
 - M.W. - MEAN HIGH WATER
 - M.W. - MEAN HIGH WATER
 - O.R.B. - OFFICIAL RECORD BOOK
 - P.L. - PLAT
 - P.B. - PLAT BOOK
 - P.R. - PERMANENT REFERENCE MONUMENT
 - R.O.W. - RIGHT OF WAY
 - R.P. - REINFORCED CONCRETE PIPE
 - R.P.B. - ROAD PLAT BOOK
 - S. - SURVEY
 - S.P. - STOP LIGHT POLE
 - S.M. - SOUTHERN BELL TELEPHONE MANHOLE
 - S.M. - SOUTHERN BELL TELEPHONE MANHOLE
 - T.P. - TRAFFIC POLE
 - T.P. - TRAFFIC POLE
 - T.V. - TELEVISION
 - U. - UTILITY EASEMENT
 - W.P. - WOOD POLE
 - W.V. - WATER VALVE

DATE:	REVISIONS:	BY:	DATE:	REVISIONS:	BY:
			10/11/16	REVISE W. WATERMAN PER DATA FROM M. WILLIAMS '04-109-3024	R.J.W.
			09/08/16	ADD ELEVATIONS 04-109-1024, F.B. 700/38 & F.E. K.F.	L.J.C./R.J.W.
			02/20/15	NAVY TO NGVD -132	L.J.C.
			02/20/15	UPDATE SURVEY 04-109-3007 NOTES FIELD F.B. 680/03 K.F.	L.J.C.
			02/20/15	UPDATE SURVEY 04-109-044 NOTES FIELD K.F.	L.J.C./R.J.W.
			02/24/15	UPDATE SURVEY 04-109-04 F.B. 674/2364 K.F.	L.J.C./R.J.W.
			06-24-05	ADDED ADDITIONAL TOPO - F.B. 474, PG. 70 - K.C.	E.C.
			06-09-05	ADDED ADDITIONAL TOPO - F.B. 455, PG. 22 - B.D.	E.C.

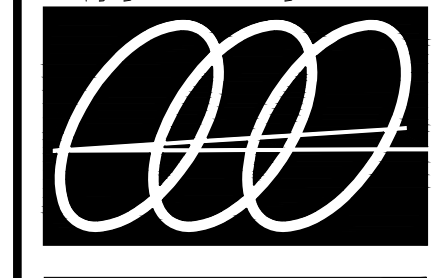
LIDBERG LAND SURVEYING, INC.

675 West Indiantown Road, Suite 200,
Jupiter, Florida 33458 TEL: 561-746-8454

LB4431

BOUNDARY SURVEY
386 EAST BLUE HERON BOULEVARD
PREPARED FOR:
SEVEN KINGS HOLDINGS, INC.

CAD.	K:\UST\284243\1694100\1694100.DWG	
REF.		
F.L.D.	B.D.	PG.
OFF.	L.J.C.	451 22
CKD.	D.C.L.	SHEET 1 OF 1
JOB	04-169-100	
DATE	11/02/2004	
DWG.	D04-169	



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Landscape Architects
Planners and Environmental Consultants

1907 Commerce Lane
Suite 101
Jupiter, Florida 33458
561-575-9551
561-575-5260 FAX
www.landscape-architects.com

Final Site Plan Crab Pot Site Riviera Beach, Florida

Designed: PSS, GGG
Drawn: PSS
Approved: GGG/EOM/MTH/JML
Date: 10-2-16
Job no. 15-1017
Revisions: 3-10-17
10-24-18

Seal

LC 0000177

Sheet Title:
Final Site Plan

Scale: 1"=10'-0"

Sheet No.

FSP-1

15-1017

Site Data

SUBJECT SITE AREA	0.34 ACRE (14,818.95 S.F.)
ZONING DISTRICT	DG, DOWNTOWN GENERAL
LAND-USE CLASSIFICATION	DOWNTOWN MIXED USE
TOTAL BUILDING AREA	4,482 S.F.
IMPERVIOUS AREA	10,371.71 S.F. (70%)
PERVIOUS AREA	4,447.24 S.F. (30%)

Building Data

TOTAL BUILDING AREA:	4,482 S.F.
FAR (2.0 MAX)	0.30 FAR
BUILDING LOT COVERAGE	80% MAX.
PERMITTED PROVIDED	30%
NUMBER OF STORIES	1 STORY
BUILDING HEIGHT	3 STORY MAX.
SETBACKS	REQ. PROVIDED
FRONT	10' MIN. 13.42'
REAR	10' MIN. 10'
SIDE CORNER	0 MIN. 5.61', 71.35'

Parking Data

PARKING REQUIRED	15 SPACES
RESTAURANT: 1 PER 300 (Sec. 31-539)	
PARKING PROVIDED	
ON-SITE	12 SPACES
FDOT AGREEMENT (Permitted by Sec. 31-539(b)(2))	6 SPACES
PARKING EASEMENT AT INLET HARBOR (Recorded in: O.R.B. 290633, PG 363)	75 SPACES
(Permitted by Sec. 31-539 (c) (10))	
TOTAL PARKING PROVIDED	93 SPACES
HANDICAPPED REQUIRED	1 SPACE
HANDICAPPED PROVIDED	1 SPACE

Note:

IN THE EVENT THE DEVELOPER FAILS TO OBTAIN THE FDOT LEASE OR THE FDOT LEASE IS SUBSEQUENTLY TERMINATED OR MODIFIED AFFECTING THE IMPROVEMENTS PROPOSED WITHIN THE FDOT LEASE AREA, IN LIEU OF SUCH IMPROVEMENTS PROPOSED THEREIN THE DEVELOPER SHALL CONSTRUCT THE CONTINGENT ACCESS DESIGN SHOWN HEREIN, WHICH DESIGN IS HEREBY APPROVED BY THE CITY COUNCIL, OR, IN THE ALTERNATIVE, THE DEVELOPER MAY SEEK AN ADMINISTRATIVE AMENDMENT PURSUANT TO CITY CODE SECTION 31-534(E)(1) TO MODIFY ACCESS TO THE SITE AND THE USE OF ALL OR A PORTION OF THE FDOT LEASE AREA

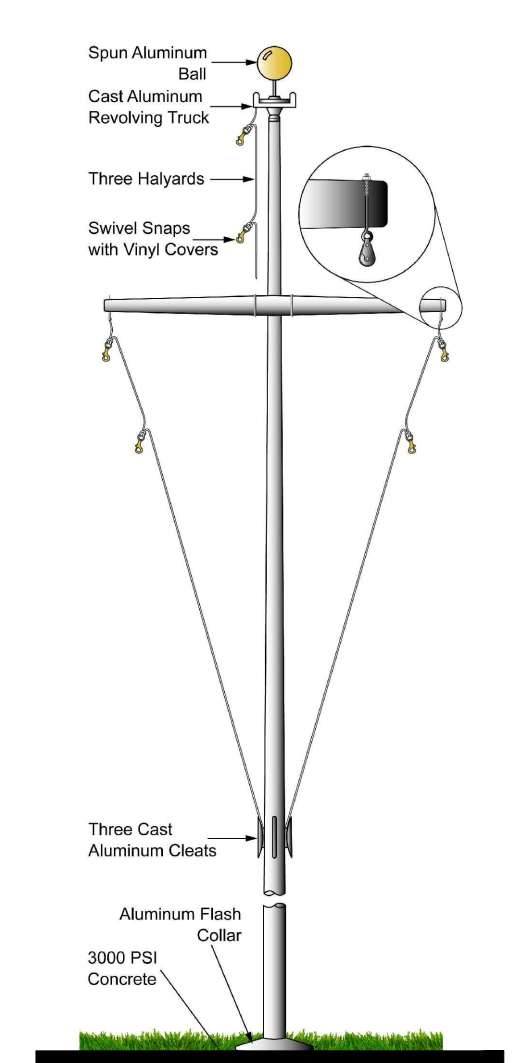
0' MIN. SIDE SETBACK ACCORDING TO THE DOWNTOWN GENERAL REGS. TABLE 31-536(C)

LAKE WORTH LAGOON

PROPOSED DECK EXTENSION FINAL DESIGN DETERMINED THROUGH AGENCY PERMITTING PHASE.

PROPOSED DOCK EXTENSION FINAL DESIGN DETERMINED THROUGH AGENCY PERMITTING PHASE.

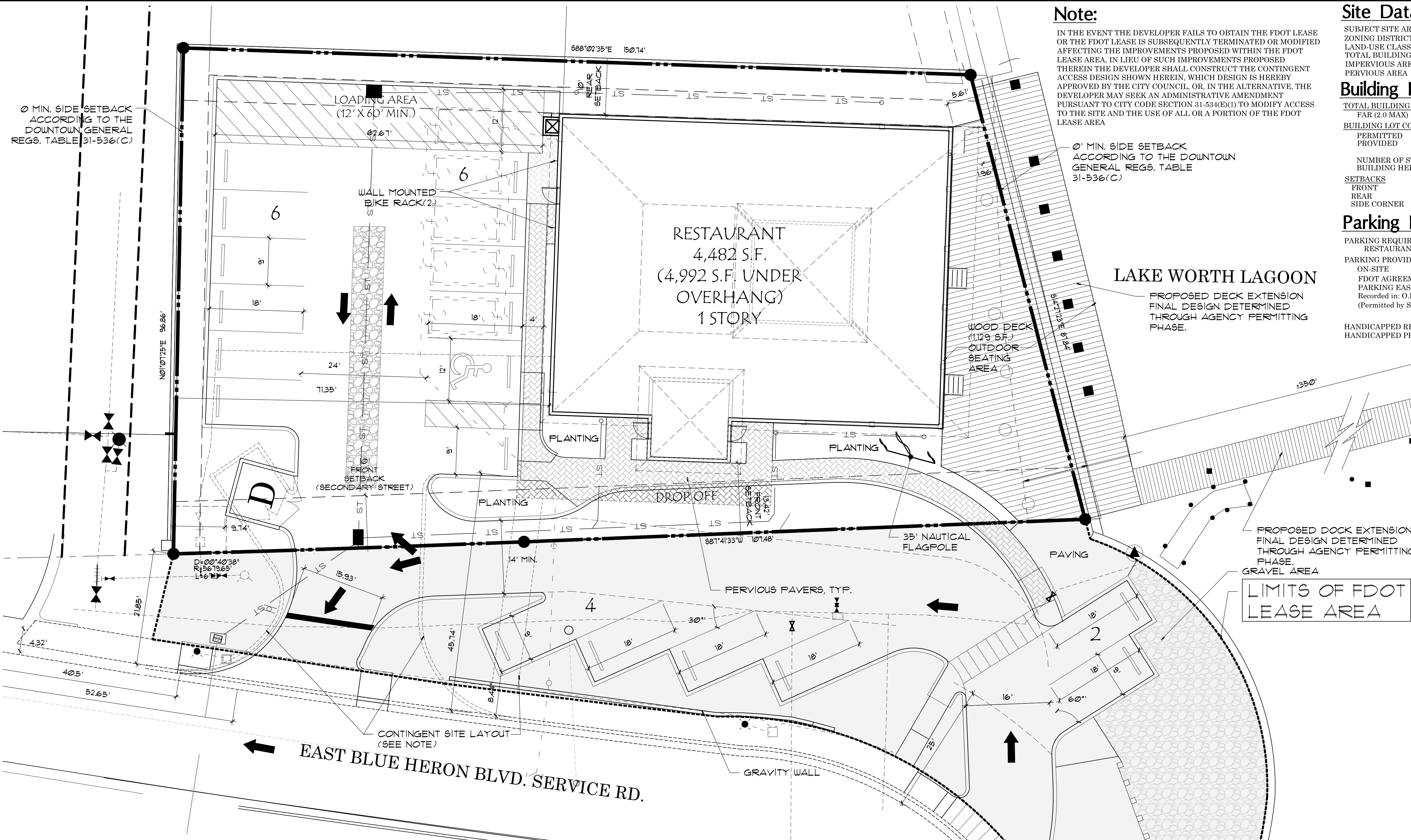
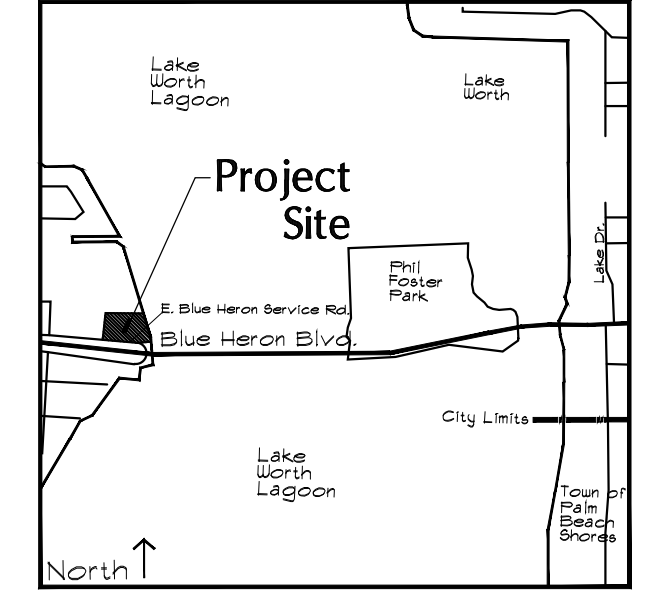
ALL DOCK IMPROVEMENTS ARE SUBJECT TO APPROVAL AND PERMITTING BY ALL PERTINENT REGULATORY AGENCIES PRIOR TO THEIR BUILDING PERMIT ISSUANCE



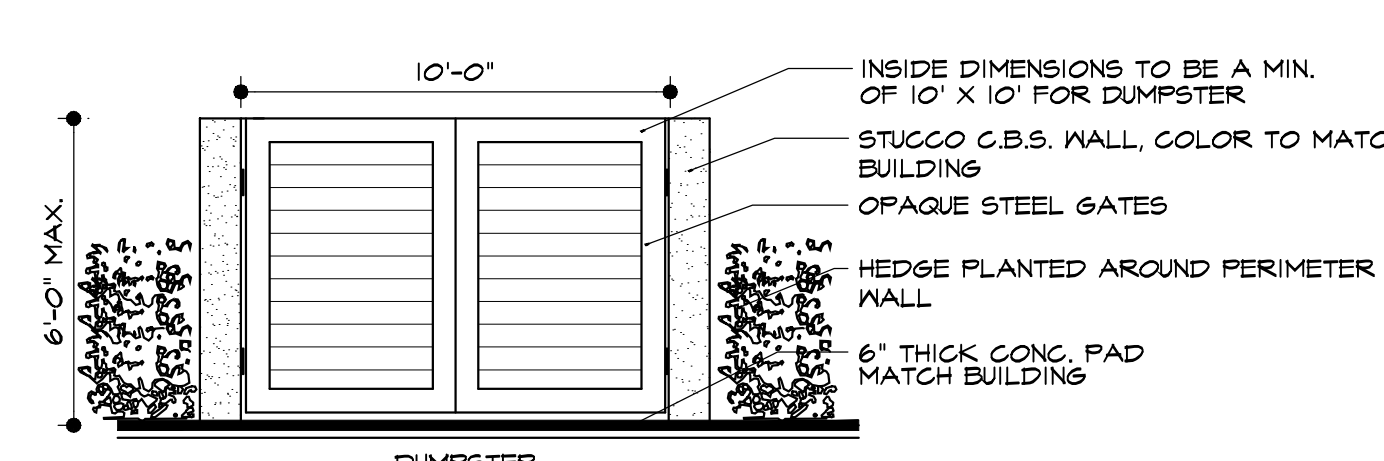
35' Flag Pole

N.T.S.
*FLAGS ONLY AS PERMITTED UNDER THE CITY OF RIVIERA BEACH ORDINANCES

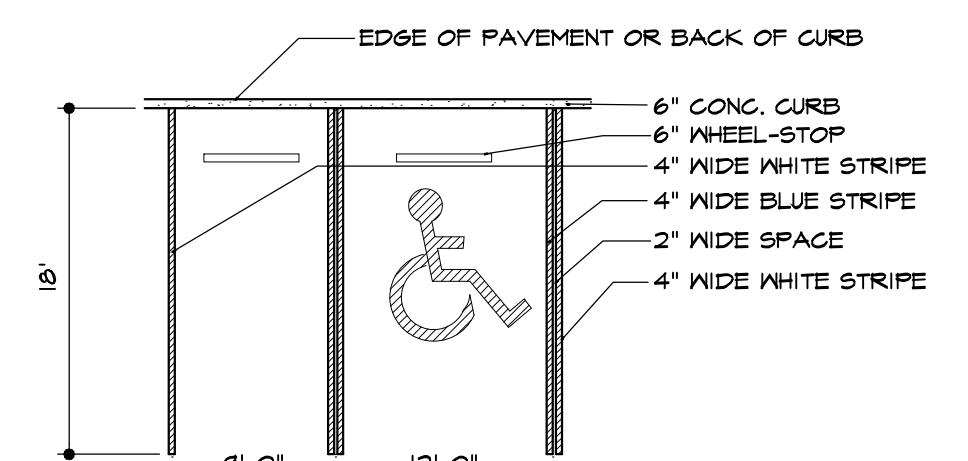
Location Map



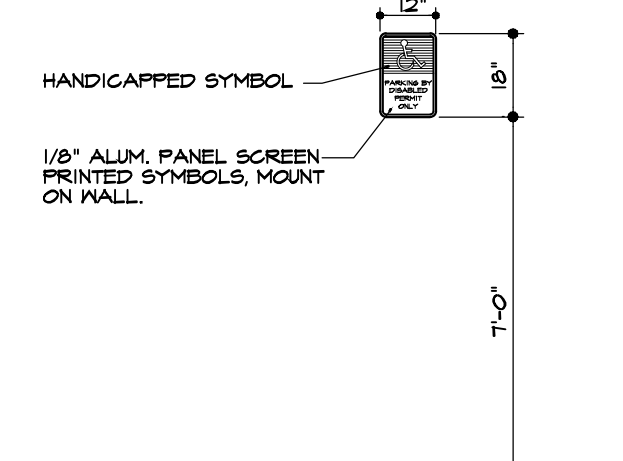
BLUE HERON BOULEVARD (S.R. A1A)



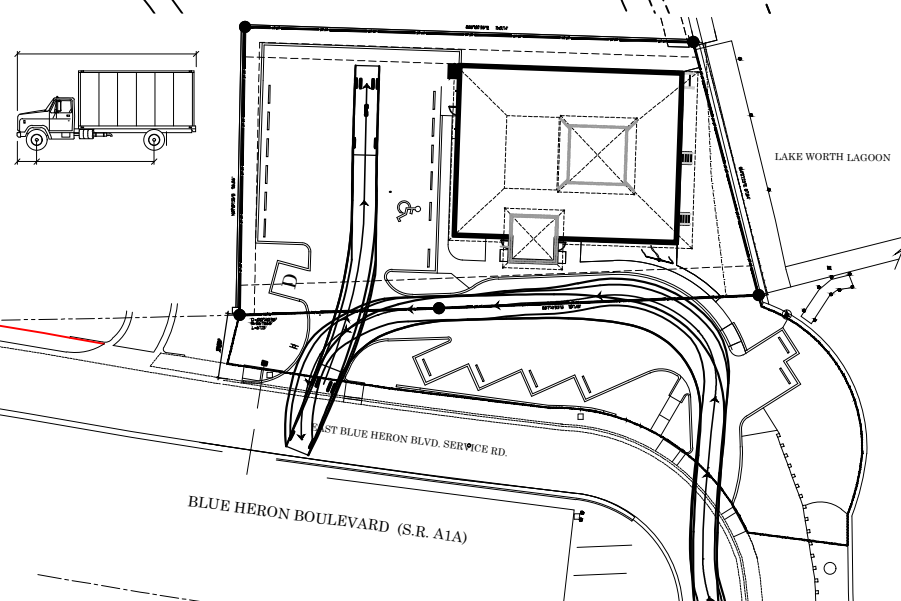
Dumpster Enclosure Detail
N.T.S. FRONT ELEVATION



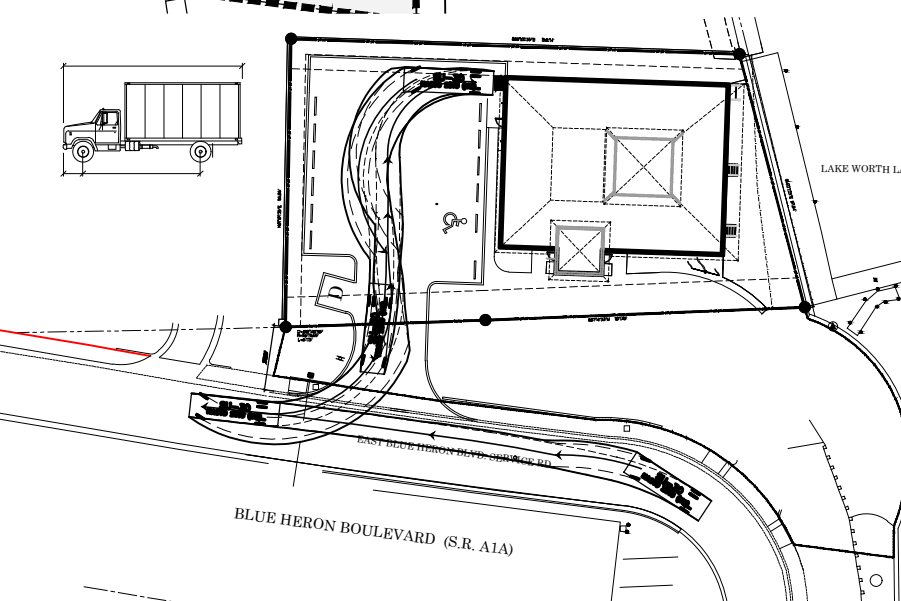
Parking Stall Detail
N.T.S.



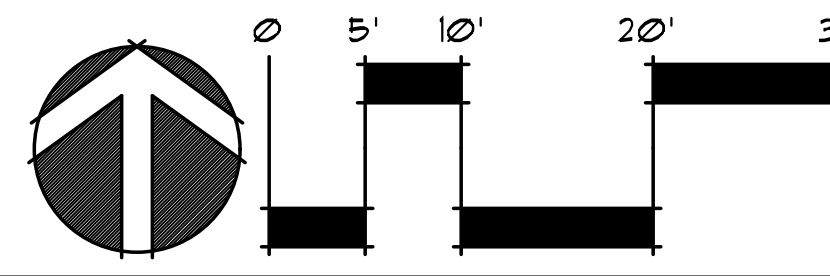
Disabled Parking Sign
N.T.S.



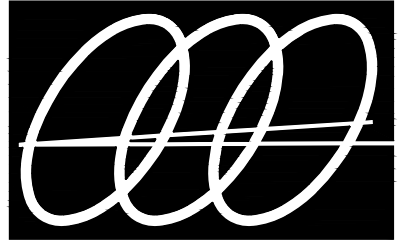
Truck Route
N.T.S.



Truck Route
CONTINGENT SITE LAYOUT
N.T.S.



FILE IN CRAB POT - 15-1017 DRAWINGS - 0 FINAL SITE PLAN 15 - CONTINGENT PLANNING
PLOTTED: 10/25/18 AT 3:59PM BY: DEWENSEN
SEPS - PLANNING SERVICES AND CONSULTING SERVICES - RESIDENTIAL-LANDSCAPE UTILITIES DIVISION



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www.landscpe-architects.com

Off Site Parking and Pedestrian Route Diagram
Crab Pot Site
Riviera Beach, Florida

Designed: DSS, GGG
Drawn: DSS
Approved: GGG/EOM/MTH/JML
Date: 10-2-16
Job no. 15-1017
Revisions: 3-10-17

Seal

LC 0000117

Sheet Title:
**Off Site
Parking
Diagram**

Scale: 1"=40'-0"

Sheet No.

FSP-2

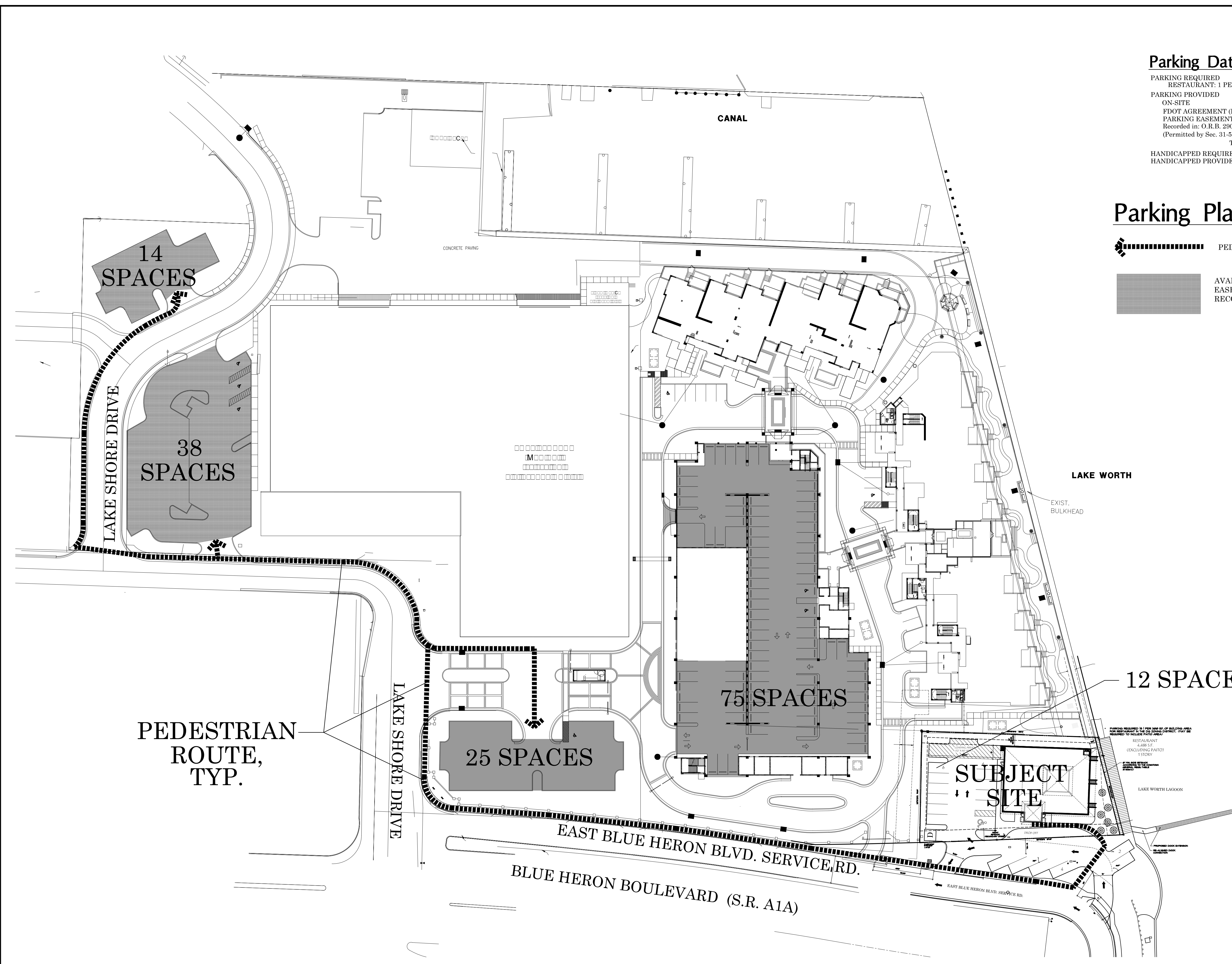
15-1017

Parking Data

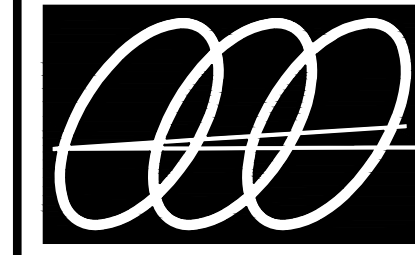
PARKING REQUIRED	RESTAURANT: 1 PER 300 (Sec. 31-539)	15 SPACES
PARKING PROVIDED	ON-SITE	12 SPACES
	FDOT AGREEMENT (Permitted by Sec. 31-539(b)(2))	6 SPACES
	PARKING EASEMENT AT INLET HARBOR	75 SPACES
	(Permitted by Sec. 31-539 (c) (10))	
	TOTAL PARKING PROVIDED	93 SPACES
HANDICAPPED REQUIRED		1 SPACE
HANDICAPPED PROVIDED		1 SPACE

Parking Plan Legend

- PEDESTRIAN ROUTE
- AVAILABLE PARKING AREAS AS PER EASEMENT AND DEDICATION AGREEMENT RECORDED IN O.R. BOOK 29033, PAGE 363



FILE IN CRAB POT - 15-1017 DRAWINGS - 0 FINAL SITE PLAN 16... CONTIGENT PLANNING
PLOTTED: 10/25/16 AT 3:52PM BY DSEIMENY
REFS: PLANNING SP-2016-10-02-DWG SP-RESIDENTIAL-LAND/16/16 UTILITIES/16/16



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Landscape Development Plan Crab Pot Site Riviera Beach, Florida

Designed: _____ DSS
Drawn: _____ DSS
Approved: _____ GGG/EOM/MTL
Date: 10-3-16
Job no. 15-1017
Revisions: 12-2-16
3-10-17

Scale

LC 0000177

Sheet Title:

**Landscape
Development
Plan**

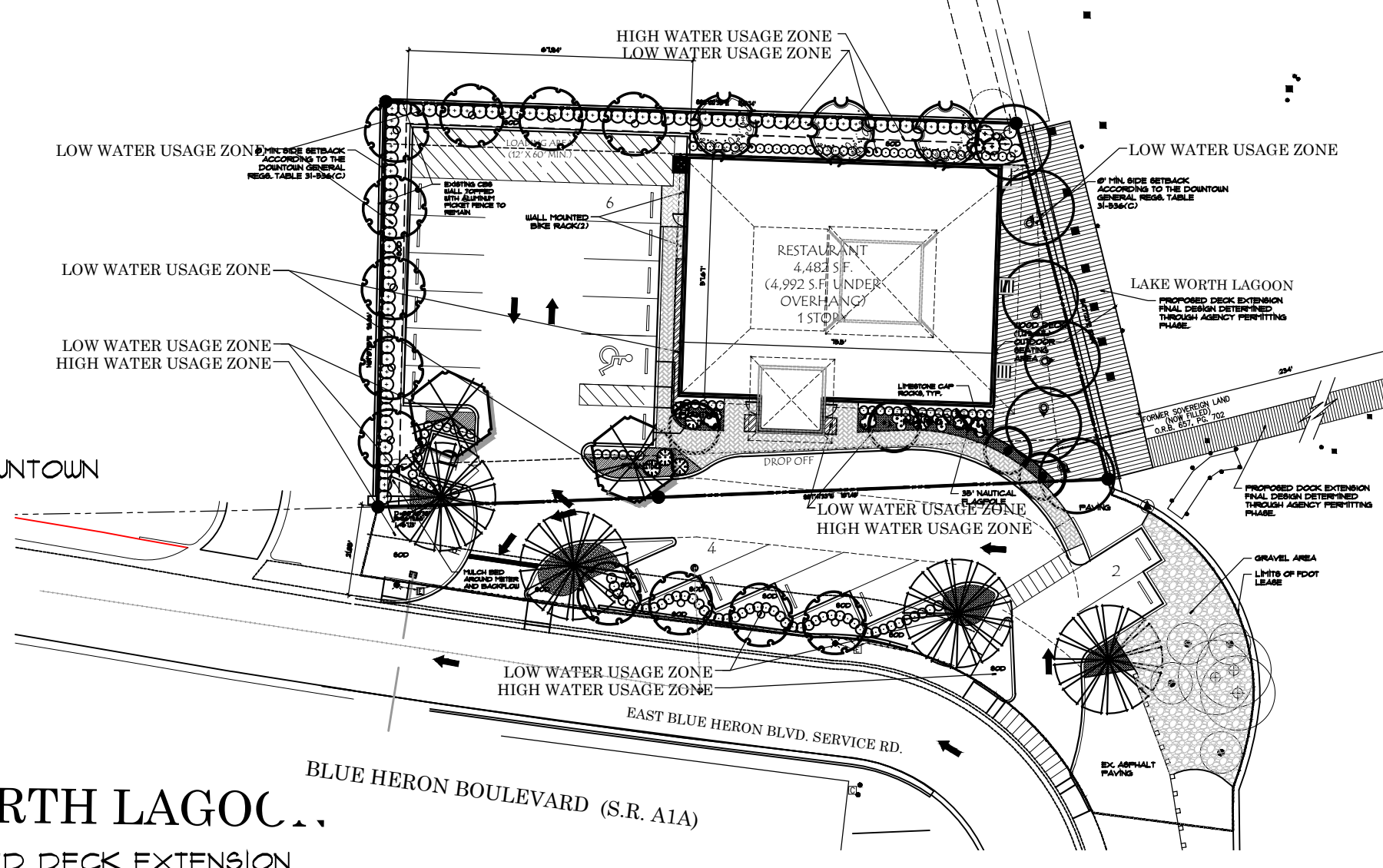
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Sheet No.

LP-1

15-1017

Water Usage Zones:

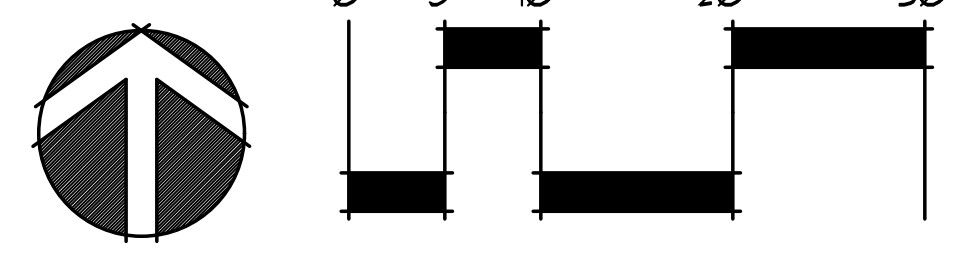
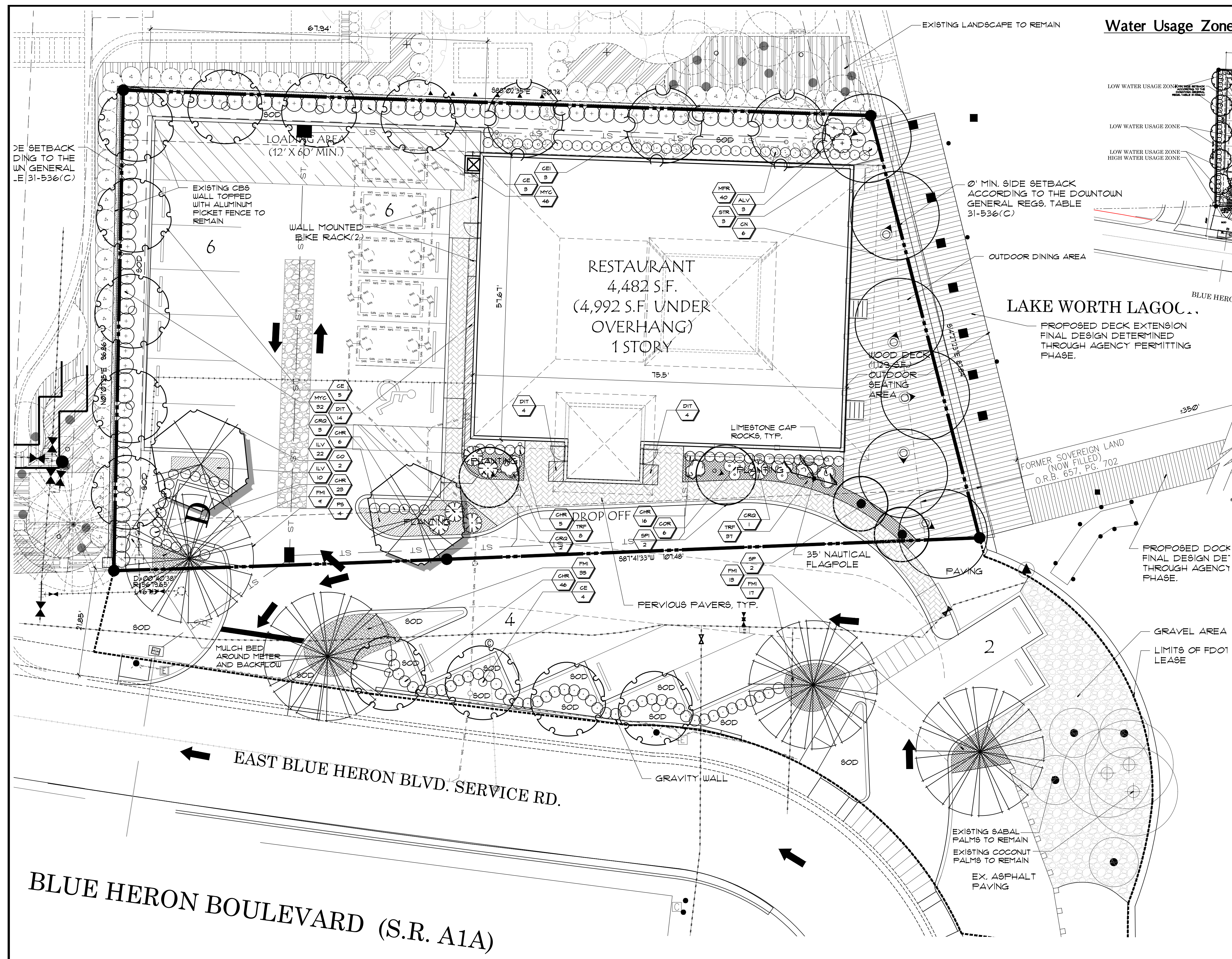


Landscape Data

TOTAL SITE AREA	0.34 ACRE (14,818.95 S.F.)
ZONING DISTRICT	DOWNTOWN GENERAL
LAND-USE CLASSIFICATION	DOWNTOWN MIXED-USE
TOTAL BUILDING AREA	4,486 SF.
RESTAURANT	
LANDSCAPE DATA	
TOTAL NUMBER OF TREES REQUIRED	28 TREES
TOTAL NUMBER OF TREES PROVIDED (SHADE AND PALM)	31 TREES
NUMBER OF SHADE TREES PROVIDED	17 TREES
NUMBER OF PALMS PROVIDED	14 PALMS
PERCENTAGE OF NATIVE TREE VEG. PROVIDED	68% (21/31)
PERCENTAGE OF NATIVE SHRUB VEG. PROVIDED	76% (291/383)
TOTAL PERCENTAGE OF NATIVE VEG. PROVIDED	75% (312/414)
PERCENTAGE OF DROUGHT TOLERANT TREES PROVIDED	100% (31/31)
PERCENTAGE OF DROUGHT TOLERANT SHRUBS PROVIDED	95% (365/383)
TOTAL PERCENTAGE OF DROUGHT TOLERANT PLANTS PROVIDED	96% (396/414)
MISC. DATA	
LANDSCAPE AREA REQUIRED (ON SITE)	2,963.8 S.F. (20%)
(20% OF TOTAL AREA)	
ADDITIONAL LANDSCAPE AREA REQUIRED (ON SITE)	0 SQ.FT.
(10 SQ. FT. FOR EACH PARKING SPACE SIZE REDUCTION) (0)	
ADDITIONAL LANDSCAPE AREA REQUIRED (NO ADDITIONAL ON SITE)	0 SQ.FT.
(10 SQ. FT. FOR EACH ADDITIONAL PARKING SPACE)	
TOTAL LANDSCAPE AREA REQUIRED	2,963.80 S.F. (20%)
TOTAL LANDSCAPE AREA PROVIDED	3,688.33 S.F. (25%)

XERISCAPE WATER EFFICIENT LANDSCAPING

DESIGN OPTIONS	POSSIBLE POINTS	PLAN POINTS
UTILIZATION OF MOISTURE SENSING CONTROLLER OTHER THAN RAIN-SENSING OR OVERSICR DEVICE	5	
PLAN SUBMITTED WITH LOW, MODERATE AND HIGH WATER USAGE ZONES INDICATED ON THE LANDSCAPE PLAN.	5	5
GRASSES: 25 - 50% OF THE GRASS AREAS ARE MADE UP OF DROUGHT-TOLERANT GRASS SPECIES FROM THE LIST.	5	
50% OR MORE OF THE GRASS AREAS ARE MADE UP OF DROUGHT-TOLERANT SPECIES FROM THE LIST.	10	
SHRUBS: 50% OF THE SHRUB AREAS ARE MADE UP OF DROUGHT-TOLERANT SPECIES FROM THE LIST.	5	
50% OF SITE OR MORE OF THE REQUIRED SHRUBS ARE MADE UP OF DROUGHT-TOLERANT SPECIES FROM THE LIST.	10	10
TREES: 25 - 50% OF THE GRASS AREAS ARE MADE UP OF DROUGHT-TOLERANT GRASS SPECIES FROM THE LIST.	5	
50% OF SITE OR MORE OF THE REQUIRED TREES ARE MADE UP OF DROUGHT-TOLERANT SPECIES FROM THE LIST.	10	10
EXTRA SHADE TREES IN VEHICLE USE AREAS: 25% MORE THAN THE REQUIRED SHADE TREES PLANTED IN THE VEHICULAR USE AREAS.	5	
50% MORE THAN THE REQUIRED SHADE TREES PLANTED IN THE VEHICULAR USE AREAS.	10	
SOD AREA LESS THAN 50% OF THE TOTAL LANDSCAPE AREA.	10	10
UTILIZATION OF COMPACTED MULCH BEDS AT LEAST THREE IN DEEP IN ALL PLANTED AREAS EXCEPT GRASS COVER.	10	10
TOTAL POINTS		45

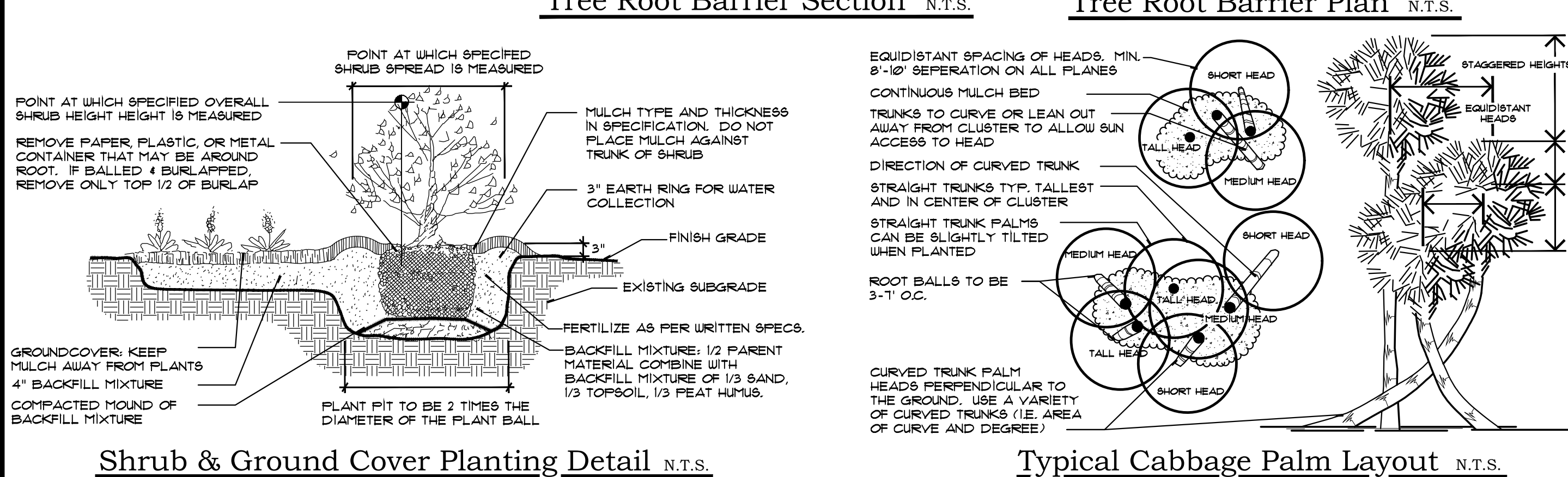
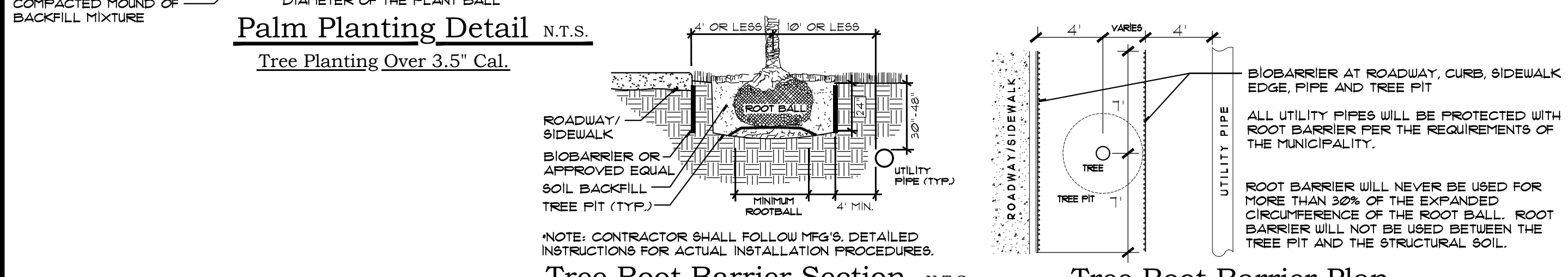
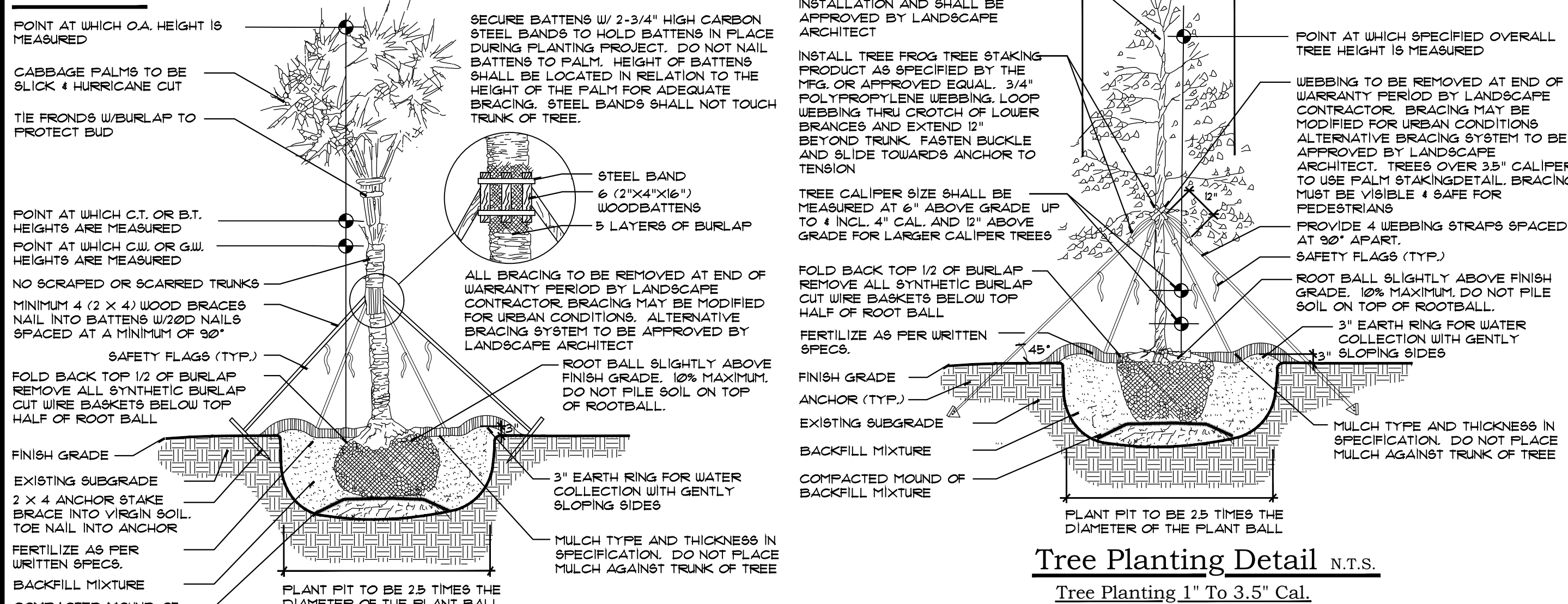


FILE N:\CRAB POT - 15-1017\DRAWINGS\326-0 FINAL SITE PLAN 15.DWG
PLOTTED: 3/20/17 AT 10:07AM BY: DSIEVSEN
SHEET: PLANDWG

Plant List

TREES & PALMS									
KEY	QTY.	BOTANICAL NAME	COMMON NAME	HEIGHT	WIDTH	CALIPER	SPACING	REMARKS	
*V	CE1	3	CONOCARPUS ERECTUS	GREEN BUTTWOOD	14'	5"	MULTI	0	4.5' C.T. MIN. FULL MULTI-TRUNK SPECIMEN
-V	CN	6	COCOS NUKEIFERA 'MAYPAN'	COCONUT PALM	16-18' C.T.	-	A.S.	0	FULL & THICK, STRAIGHT HEAVY TRUNKS
*V	CE	12	CONOCARPUS ERECTUS 'SERICEUS'	SILVER BUTTWOOD	14' HT MIN	5"	SINGLE	A.S.	4.5' C.T. MIN. FULL SPECIMEN
*V	CO	2	CHRYSOPHYLLUM OLIMFORME	SATIN LEAF	14' HT MIN	5" MIN	2" MIN	A.S.	FULL
*V	SP	2	SABAL PALMETTO	SABAL PALM	14'-28' C.T.	-	-	A.S.	ALL SLICK, STAGGER HTS. HURRICANE CUT
*V	SP1	2	SABAL PALMETTO	SABAL PALM	14'-28' C.T.	-	-	A.S.	CURVED, MATCHED, HURRICANE CUT, SLICK TRUNKS, SEE PLAN FOR HEIGHTS
-V	PS	4	PHOENIX SYLVESTRIS	SILVER DATE PALM	14' C.T.	-	-	A.S.	FULL MATCHED FL FANCY, TRUNKS TO BE DIAMOND CUT
SHRUBS & GROUNDCOVERS									
KEY	QTY.	BOTANICAL NAME	COMMON NAME	HEIGHT	WIDTH	GAL	SPACING	REMARKS	
-M	ALV	3	ALPINA ZERUMBET 'VARIAGATA'	VARIAGATED SHELL GINGER	30"	24"	#3	30"	FULL
*V	ILV	32	ILEX VOMITORIA 'STOKES DWARF'	STOKES DWARF	12"	12"	#3	24" O.C.	FULL & THICK TO BASE
*V	CHR	96	CHRYSOBALANUS ICACO 'RED TIP'	RED TIP COCOPLUM	24"	12"	-	A.S.	FULL & THICK TO BASE
-M	COR	6	CORDYLINE FRUTICOSA 'MORNING SUNSHINE'	MORNING SUNSHINE TI PLANT	36" MIN	O.A.	-	A.S.	FULL & THICK TO BASE, MIN 3 STEMS PER POT
-M	CRQ	6	CRINUM AUGUSTUM 'QUEEN EMMA'	QUEEN EMMA CRinum	4" O.A. MIN	-	-	A.S.	PURPLE, FULL, NO PUPS
-M	DTI	22	DIANELLA TASMANICA	BLUEBERRY FLAX LILY	14"	14"	#3	24"	FULL CLUMP
-V	FM	74	FICUS MICROCARPA 'GREEN ISLAND'	GREEN ISLAND FICUS	12"	12"	#3	24"	FULL & THICK TO BASE
*V	MFR	40	MYRCANTHES FRAGRANS	SIMPSON'S STOPPER	3" MIN O.A.	-	-	A.S.	FULL TO BASE
-V	MYC	78	MYRICA CERIFERA	WAX MYRTLE	48"	24"	#	24" O.C.	FULL & THICK TO BASE, TO BE USED AS SCREENING MATERI
-M	STR	3	STRELTZIA REGINIE	ORANGE BIRD OF PARADISE	36"	36"	0	A.S.	FULL CLUMP
*V	TRF	45	TRIPSACUM FLORIDANA	FLORIDA GAMINGRASS	16"	16"	#3	24"	FULL CLUMP

Details



FILE: N/C/RAB POT - 15-1010 DRAWINGS: GHO FINAL SITE PLAN 15.DWG
PLOTTED: 3/16/17 AT 11:17 AM BY: DSEIVSEN
XREFS: PLANDWG

Specifications - Exterior Plants

THE RESULT OF THE SOIL TESTS SHALL BE SUBMITTED TO THE OWNER AND LANDSCAPE ARCHITECT FOR REVIEW PRIOR TO THE APPLICATION OF SAID MATERIALS. ADJUSTMENTS TO THE SOIL AMENDMENTS MAY BE MADE UPON CONSULTATION WITH THE OWNER AND THE LANDSCAPE ARCHITECT.

Specifications text detailing requirements for exterior plants, including soil amendments and installation standards.

Specifications text detailing requirements for exterior plants, including soil amendments and installation standards.

Specifications text detailing requirements for exterior plants, including soil amendments and installation standards.

Specifications - Lawns and Grasses

Specifications text detailing requirements for lawns and grasses.

Specifications text detailing requirements for lawns and grasses.

Specifications text detailing requirements for lawns and grasses.

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561-575-9551
561-575-5260 FAX
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Landscape Specifications and Details

Crab Pot Site

Riviera Beach, Florida

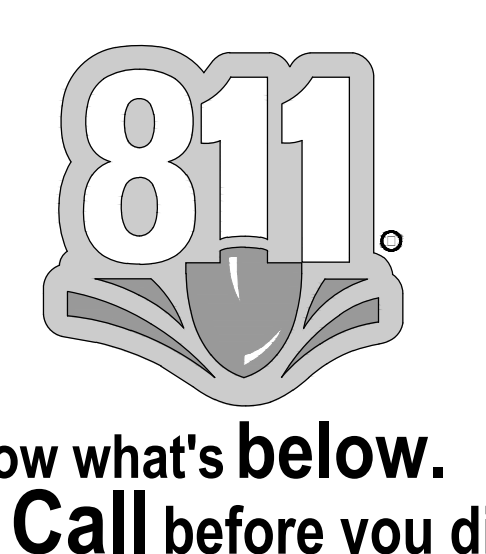
Designed: _____ DSJ
Drawn: _____ DSJ
Approved: _____ GGG/EOM/AMH
Date: 10-5-16
Job no.: 15-1077
Revisions: 12-2-16
3-10-17

Seal

LC 000111
Sheet Title:
Landscape Specification Sheet

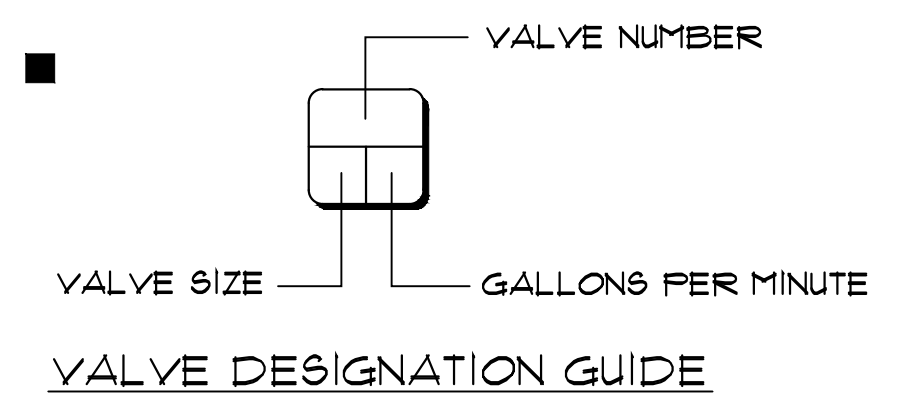
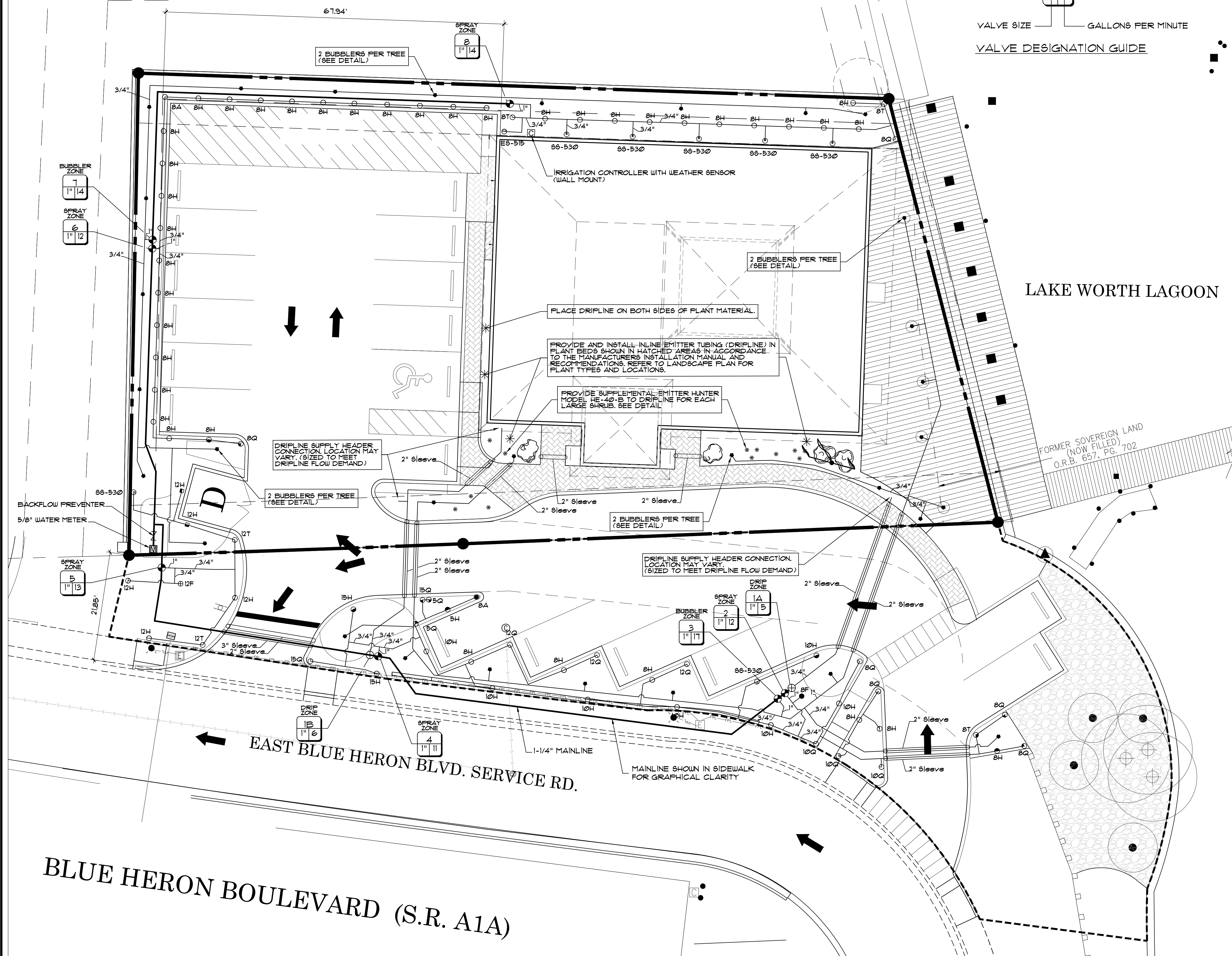
Not to Scale

Sheet No.
LP-2
15-1017





Know what's below
Call before you dig.



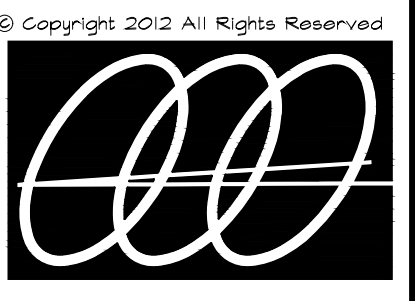
PIPE SIZING LEGEND

PIPE SIZE	GPM
3/4"	0-10
1"	11-16
1-1/4"	17-26
1-1/2"	27-35
2"	36-50

HUNTER PRO-SPRAY NOZZLES

17H	2.37 GPM @ 30 PSI
17Q	1.15 GPM @ 30 PSI
15F	3.75 GPM @ 30 PSI
15TQ	2.92 GPM @ 30 PSI
15TT	2.48 GPM @ 30 PSI
15H	1.86 GPM @ 30 PSI
15T	1.30 GPM @ 30 PSI
15Q	.97 GPM @ 30 PSI
12F	2.10 GPM @ 30 PSI
12TQ	2.00 GPM @ 30 PSI
12TT	1.74 GPM @ 30 PSI
12H	1.30 GPM @ 30 PSI
12T	.89 GPM @ 30 PSI
12Q	.67 GPM @ 30 PSI
10F	1.59 GPM @ 30 PSI
10H	.88 GPM @ 30 PSI
10T	.57 GPM @ 30 PSI
10Q	.42 GPM @ 30 PSI
8F	.97 GPM @ 30 PSI
8H	.47 GPM @ 30 PSI
8T	.32 GPM @ 30 PSI
8Q	.24 GPM @ 30 PSI
6H	.98 GPM @ 30 PSI
6Q	.51 GPM @ 30 PSI
4H	.44 GPM @ 30 PSI
4Q	.22 GPM @ 30 PSI
5F	.47 GPM @ 30 PSI
5H	.23 GPM @ 30 PSI
5Q	.12 GPM @ 30 PSI
SS-530	1.30 GPM @ 30 PSI
ES-515	.65 GPM @ 30 PSI
CS-530	1.30 GPM @ 30 PSI

Automatic Irrigation Controllers	
Symbol	Description
☐	Hunter Model FCC-12 with SOLAR-SYNC Sensor
Remote Control Valves	
Symbol	Description
⊙	Hunter Model ICV-101G in Valve Box
Drip Control Zone Kits	
Symbol	Description
⊕	Hunter Model ICZ-101-LF with Ball Valve in Valve Box
Irrigation Heads	
Symbol	Description
●●●●●●●●	Hunter PRO5-12-FR330 with PRO-SPRAY Series Nozzle
⊕⊕⊕⊕⊕⊕	Hunter PRO5-26-FR330 with PRO-SPRAY Series Nozzle
■	Hunter PRO5-20-FR330 with PRO-SPRAY Series Nozzle
Pressure Compensating Bubblers (2 per Tree)	
Symbol	Description
●	Hunter Model PCB-50 (.50 GPM)
Pressure Compensating Emitters (Supplemental)	
Symbol	Description
⊕	Hunter Model HE-40-B
Pressure Compensating Drip Tubing	
Symbol	Description
—	Hunter Model PLD-10-12
Dripline Supply Header Connections	
Symbol	Description
—	PVC to Dripline Supply Header Connection
Irrigation Mainline	
Symbol	Description
—	1-1/4" Schedule 40 PVC Pipe
Irrigation Sleeves	
Symbol	Description
—	Schedule 40 PVC Pipe
Backflow Preventer	
Symbol	Description
N	1" Pressure Vacuum Breaker Febco Model 165 Series



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Final Irrigation Plan Crab Pot Site Riviera Beach, Florida

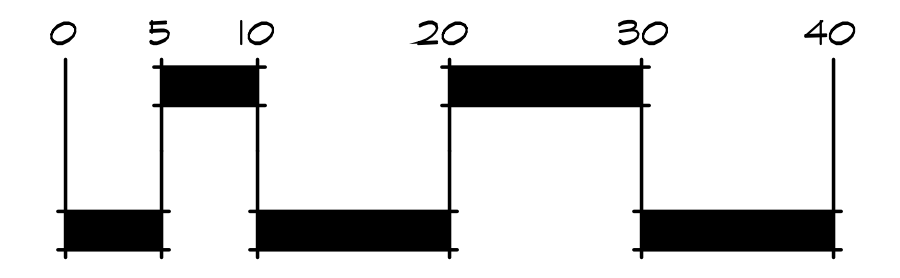
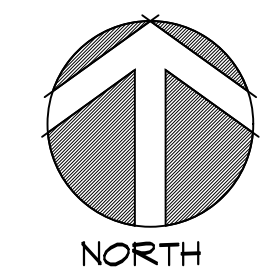
Designed: CJS
Drawn: CJS
Approved: GGG/EQM/MTL
Date: 2-17-17
Job no. 15-1017
Revisions:

LC 0000111
Sheet Title:

Final Irrigation Plan

Scale:
Sheet No.

7-1



Irrigation Equipment Table

Automatic Irrigation Controllers

Quantity	Symbol	Description	Detail
1	ⓐ	Hunter Model FCC-12 with SOLAR-SYNC Sensor	A

Remote Control Valves

Quantity	Symbol	Description	Detail
7	ⓑ	Hunter Model ICV-10IG in Valve Box	B

Drip Control Zone Kits

Quantity	Symbol	Description	Detail
2	ⓒ	Hunter Model ICZ-101-LF with Ball Valve in Valve Box	C

Irrigation Heads

Quantity	Symbol	Description	Detail
14	ⓓ	Hunter PRO5-12-PR530 with PRO-SPRAY Series Nozzle	D
71	ⓔ	Hunter PRO5-06-PR530 with PRO-SPRAY Series Nozzle	E
2	ⓕ	Hunter PRO5-00-PR530 with PRO-SPRAY Series Nozzle	F

Pressure Compensating Bubblers (2 per Tree)

Quantity	Symbol	Description	Detail
62	ⓖ	Hunter Model PCB-50 (50 GPM)	G

Pressure Compensating Emitters (Supplemental)

Quantity	Symbol	Description	Detail
12	ⓗ	Hunter Model HE-40-B	H

Pressure Compensating Drip Tubing

Quantity	Symbol	Description	Detail
610 ft	ⓘ	Hunter Model PLD-10-12	I

Irrigation Mainline

Length	Symbol	Description	Detail
320 ft	ⓙ	1-1/4" Schedule 40 PVC Pipe	J

Irrigation Sleeves

Length	Symbol	Description	Detail
20 ft	Ⓚ	3" Schedule 40 PVC Pipe	K
190 ft	Ⓛ	2" Schedule 40 PVC Pipe	K

Backflow Preventers

Quantity	Symbol	Description	Detail
1	Ⓛ	1" Pressure Vacuum Breaker Febco Model 165 Series	L

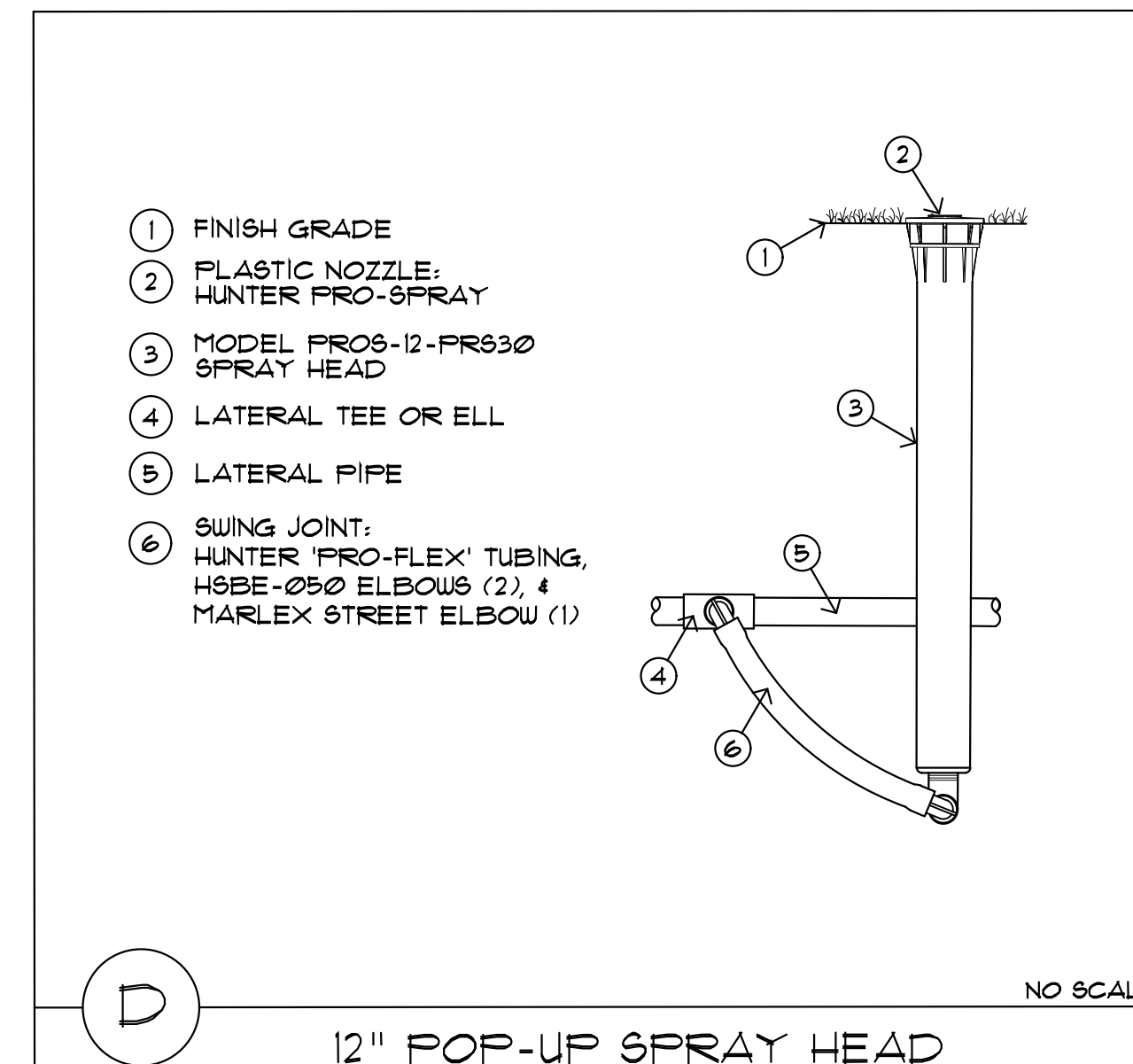
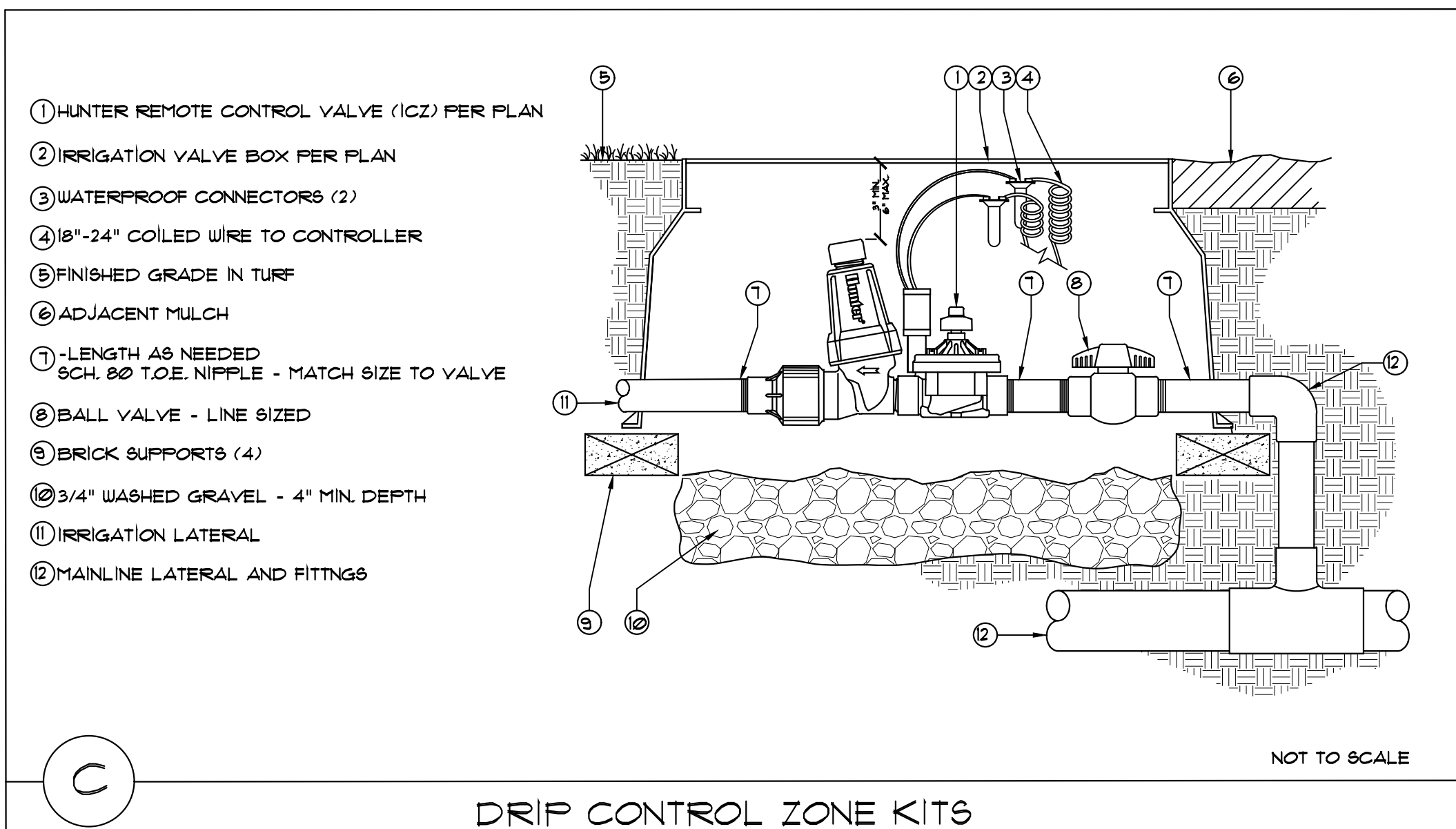
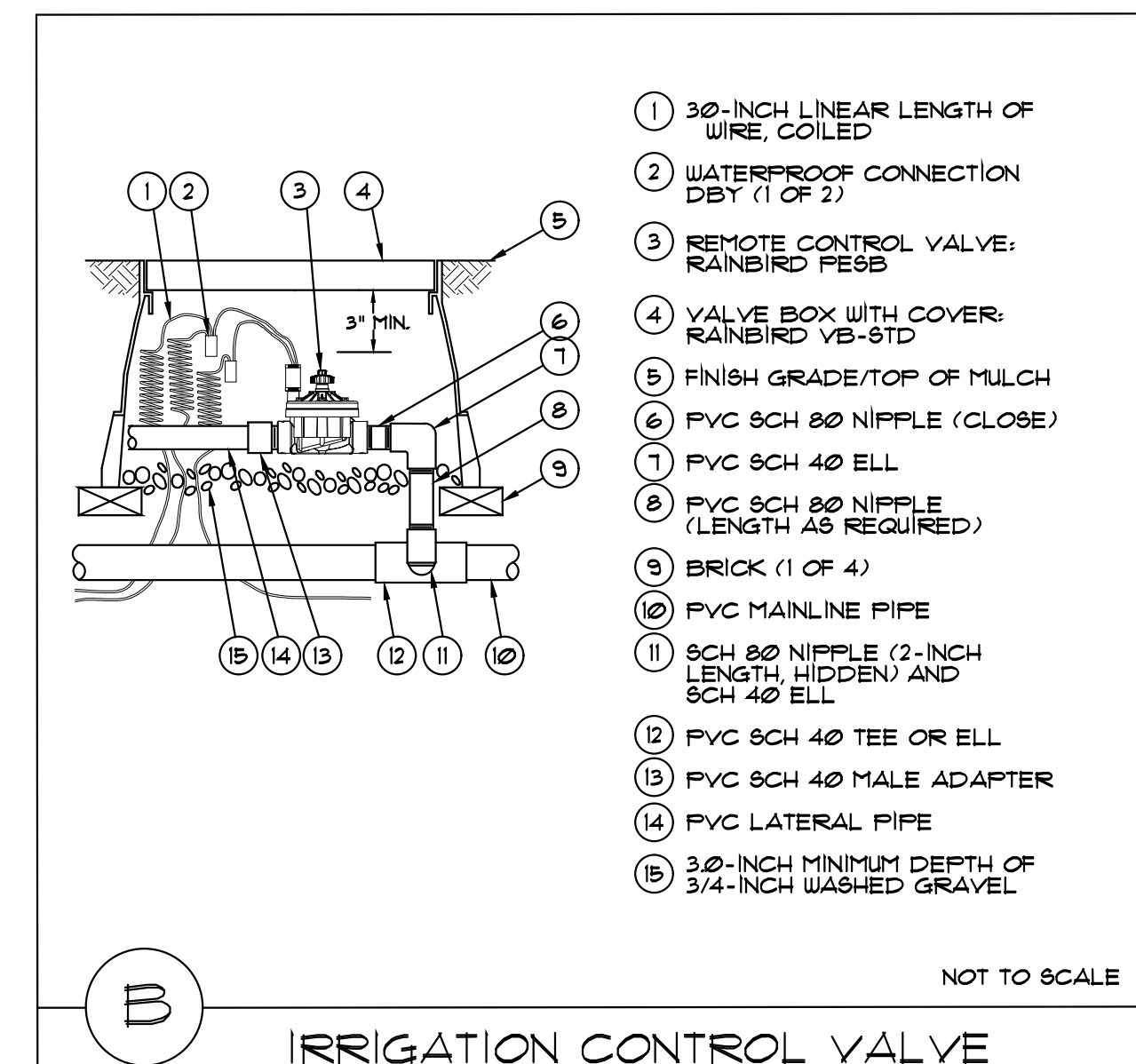
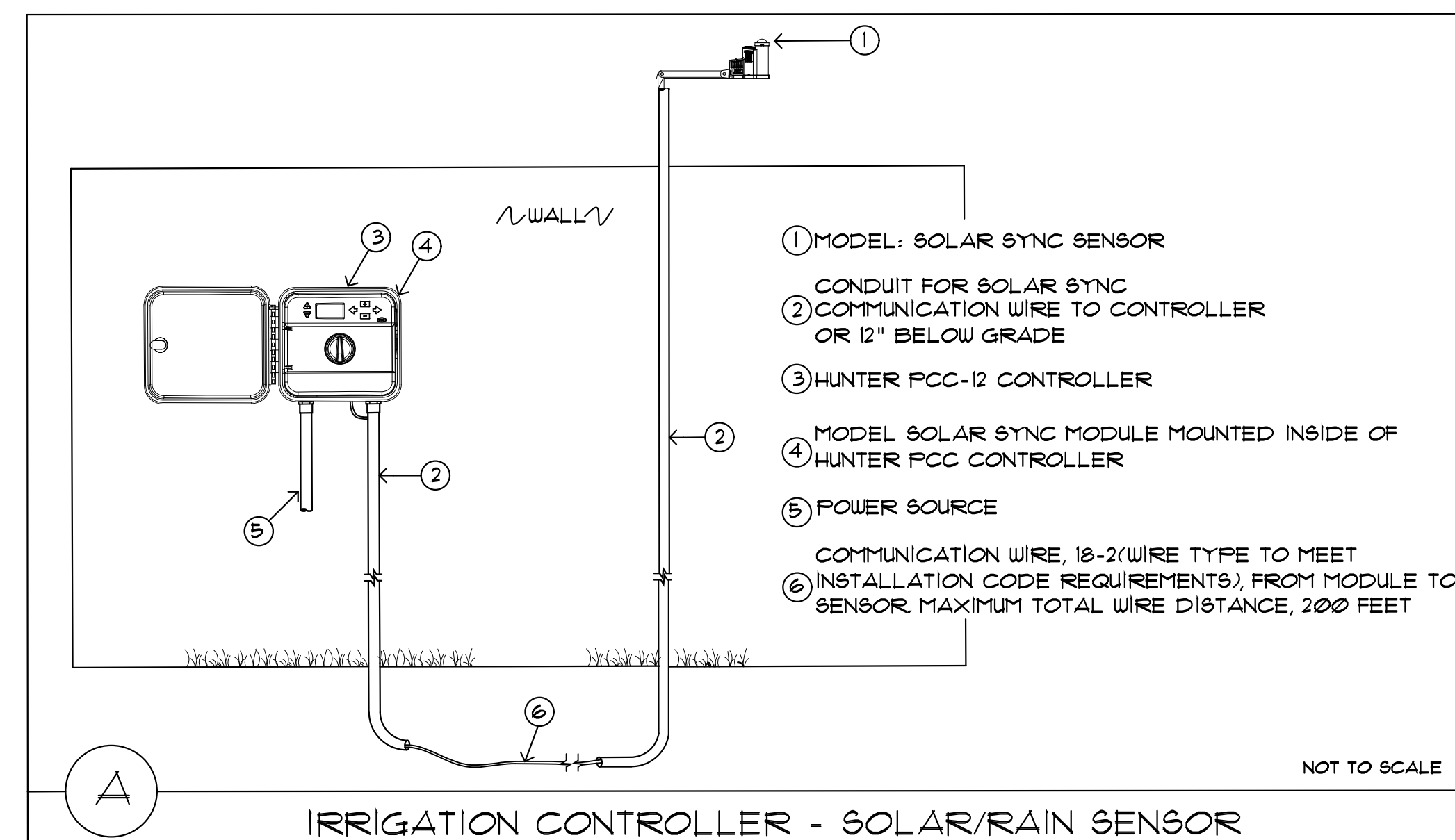
NOTE: QUANTITIES GIVEN ARE FOR CONTRACTORS CONVENIENCE ONLY. THE ACCURACY IS NOT GUARANTEED. IT IS RECOMMENDED THAT ONE VERIFY ALL QUANTITIES.

ON-SURFACE DRIP IRRIGATION NOTES:

- CONTRACTOR SHALL INSTALL DRIP IRRIGATION LAYOUT IN THE HATCHED AREAS INDICATED ON THE PLAN IN ACCORDANCE TO THE MANUFACTURERS INSTALLATION MANUAL AND RECOMMENDATIONS.
- THE MAXIMUM LENGTH OF LATERAL RUN SHALL NOT EXCEED 220 FT PER CONNECTION POINT.
- ALL PIPELINE LATERALS SHALL BE UNDER 3" - 4" OF MULCH.
- SPACING OF DRIPLINE LATERAL ROWS SHALL BE 12" MAXIMUM.
- ZONES 1A & 1B SHALL RUN SIMULTANEOUSLY.
- PROVIDE AND INSTALL FLUSH VALVE AT THE LOWEST POINT OF THE DRIP SYSTEM ZONE.

IRRIGATION NOTES:

- Irrigation system design requirements: 20 GPM @ 50 PSI at the point of connection. The point of connection shall be a 5/8" water meter at the location shown on plan. The irrigation system shall be operated by an automatic irrigation controller at located shown on plan. The irrigation controller shall incorporate a sensor to calculate ET for efficient water application.
- Do not willfully install the irrigation system as shown on the drawings when it is obvious in the field that conditions exist that might not have been considered in the design process. For example: obstructions, grade differences, water levels, dimensional differences, etc. Refer to the Landscape Plan to avoid conflicts with proposed trees or shrubs.
- Piping may sometimes be indicated as being located in unlikely areas: i.e., under buildings or pavement, outside of property lines, in lakes in driveways, etc. This is done for graphic clarity only. Whenever possible, piping is to be installed in open, "green" areas.
- Contractor shall verify all underground utilities prior to commencement of work. Contractor shall secure locates from utilities prior to any excavation.
- Contractor shall install pop-up sprinklers 6" from edge of sidewalk, 12" from walls and edge of road or parking area. Install sprinkler on risers 18" from sidewalk, walls and edge of road or parking area.
- Install all shrub adapters on PVC risers 12" above plant material and paint the PVC riser pipe flat black.
- Irrigation system design is diagrammatic to improve clarity. All mainline piping, electric valves and wiring are to be installed in landscape areas and within Right of Way boundaries.
- If required, the Irrigation Contractor shall provide the necessary "Right of Way" use permits.
- Install bubblers on all large trees and palms.
- Size all pipe to insure flow velocity is under 5 feet per second.
- Pipe sizes shall conform to those on the drawings. Substituting with smaller pipe sizes will not be permitted.
- Mainline is to be installed with a minimum of 18" depth of cover. Lateral lines are to be installed with a minimum of 12" depth of cover. Pipes crossing drives and parking areas shall have minimum 24" depth of cover.
- Wherever practical, install valves in mulched beds and/or out of high traffic areas. All valves and wire splices shall be installed in heavy duty valve boxes with covers that read irrigation and be sized as follows:
 - Remote Control Valves: standard 12" deep rectangle valve box
 - Wire Splices: standard 12" deep rectangle valve box
- Refer to Valve Designation Symbols for valve size, station number and designed flow rate for each remote control valve.
- All 24 volt control cable to be UL Listed, single strand, type UF 600 volt control cable, size and color as follows:
 - Common Wires - size AWG #16 and WHITE in color.
 - Hot Wires - size AWG #16 and RED in color.
 - Spare Wires - size AWG #16 and BLUE in color.
- Run two (2) spare wires from controller in each direction of the mainline to furthest valves.
- All pop-up sprinkler heads shall be installed level and flush to grade.
- Provide and install Solar Sync sensor where it will be exposed to unobstructed rainfall and sun and connect to irrigation controller.
- All sleeves shall be 2 nominal pipe sizes larger than the size of the pipe to be accommodated. All pipe crossings over 5 feet in length shall be installed inside PVC pipe sleeving.
- Install acceptable grounding hardware for the irrigation controller per AGC guidelines. Provide proper grounding components to achieve ground resistance of 10 OHMS or less.
- The irrigation contractor shall prepare an AS-BUILT drawing on reproducible paper showing all installation that deviates from these drawings. The AS-BUILT drawings shall locate all main line piping, control wires and valves by showing exact measurements from hard surfaces.
- Any other equipment required that is not other wise detailed or specified shall be installed as per manufacturer's recommendations and specifications.
- The final location of all components shall be approved by the project engineer.

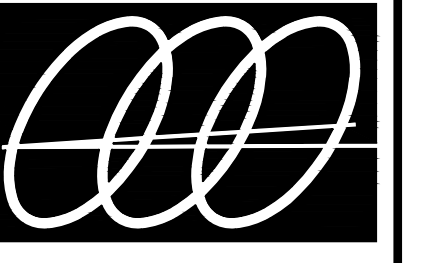


Gentile Glas Holloway O'Mahoney & Associates, Inc. Landscape Architects Planners Environmental Consultants
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Final Irrigation Plan
Crab Pot Site
 Riviera Beach, Florida

Designed: _____ GLS
 Drawn: _____ GLS
 Approved: _____ GGG/LOM/MIH
 Date: _____ 2-17-17
 Job no. _____ 15-1017
 Revisions: _____

LC 0000117
 Sheet Title:
Irrigation Details
 Sheet No.
IR-2
 15-1017



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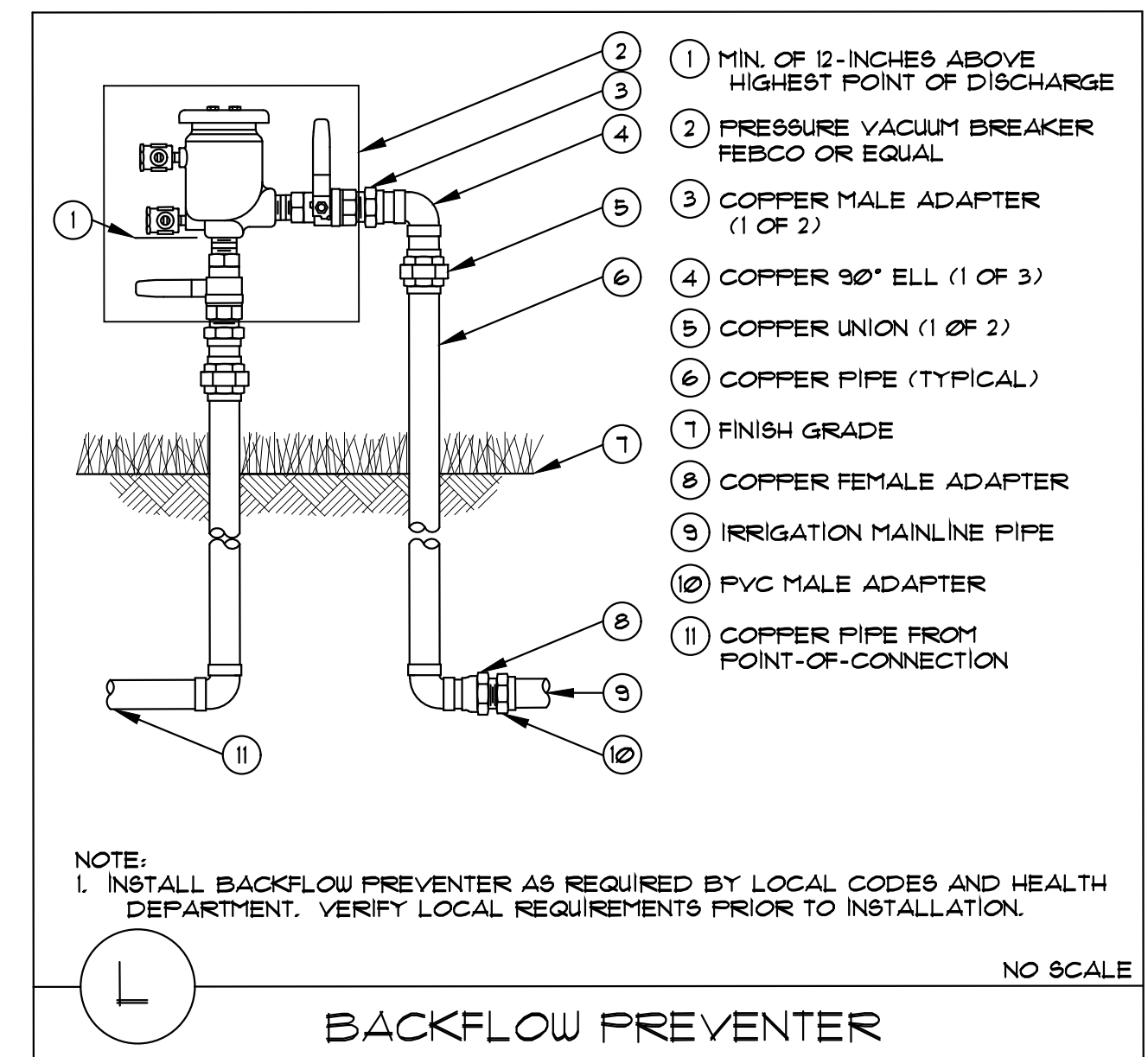
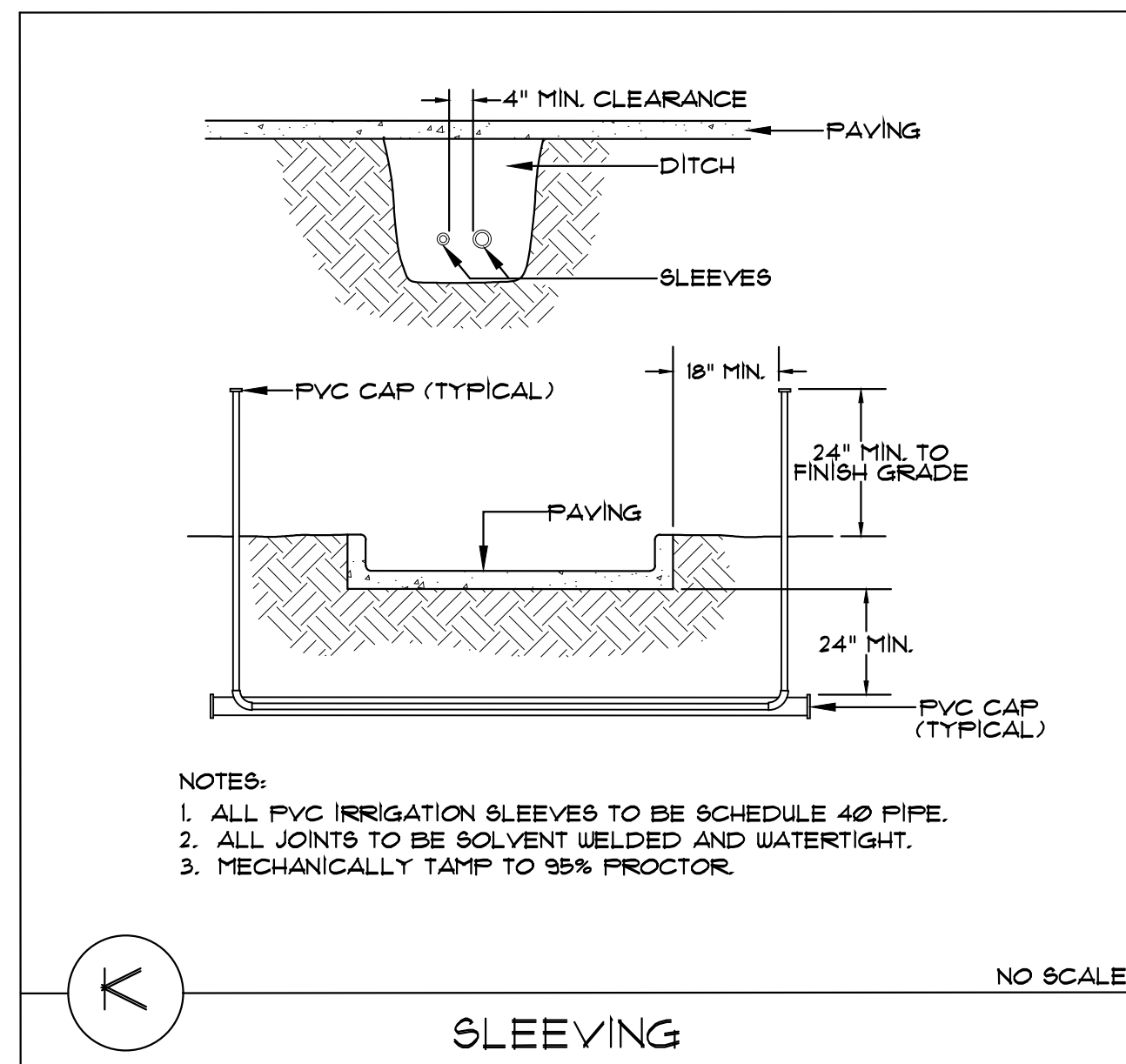
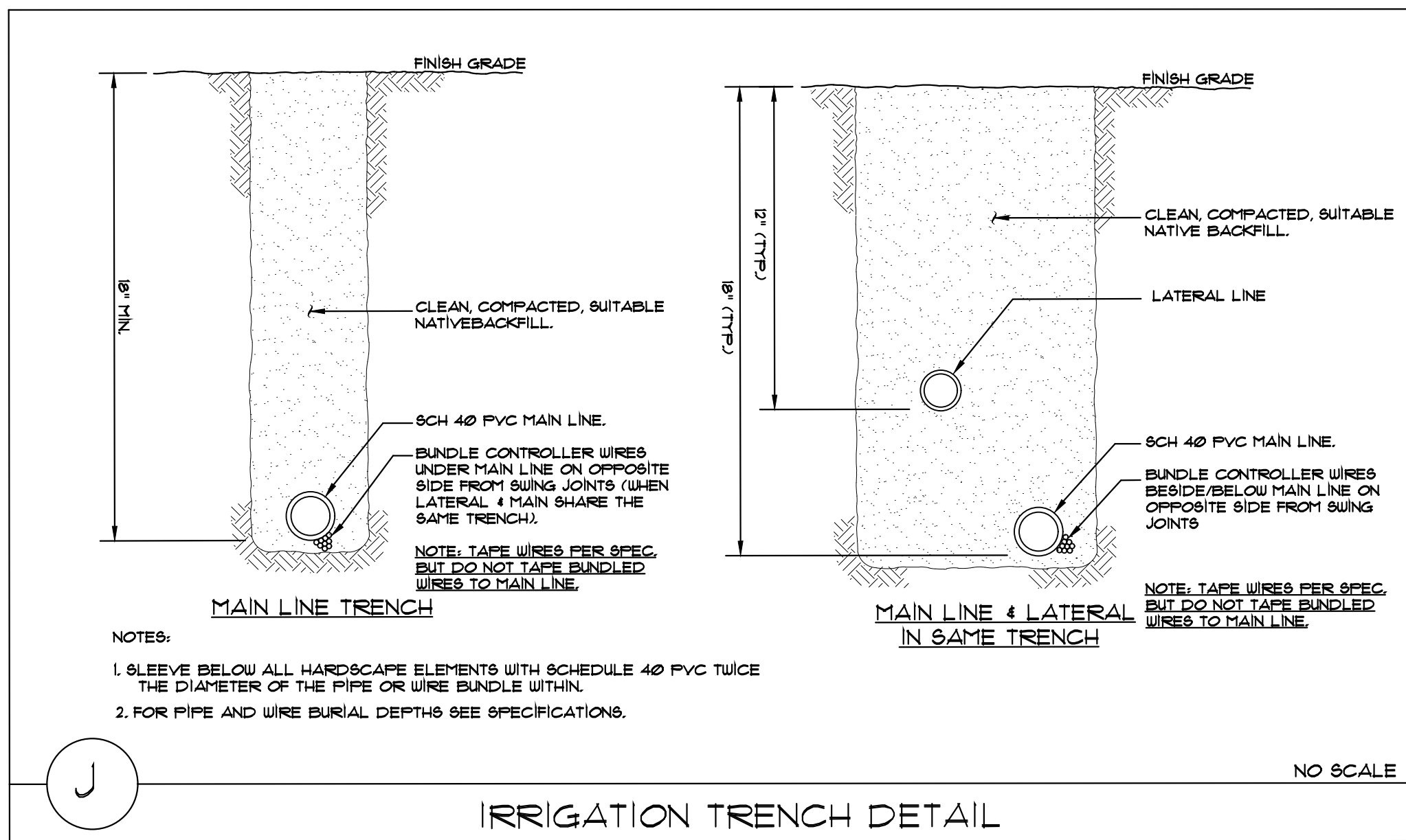
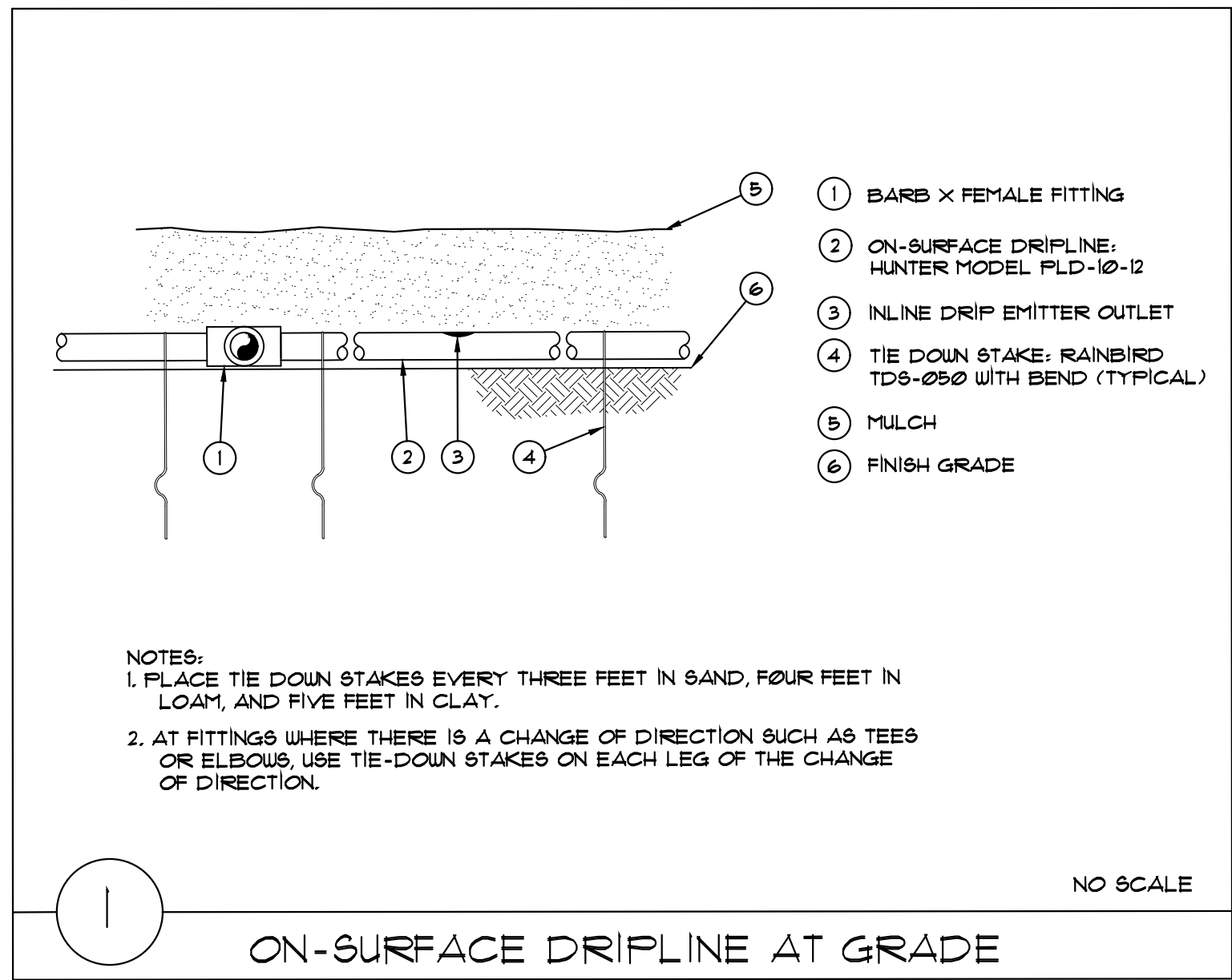
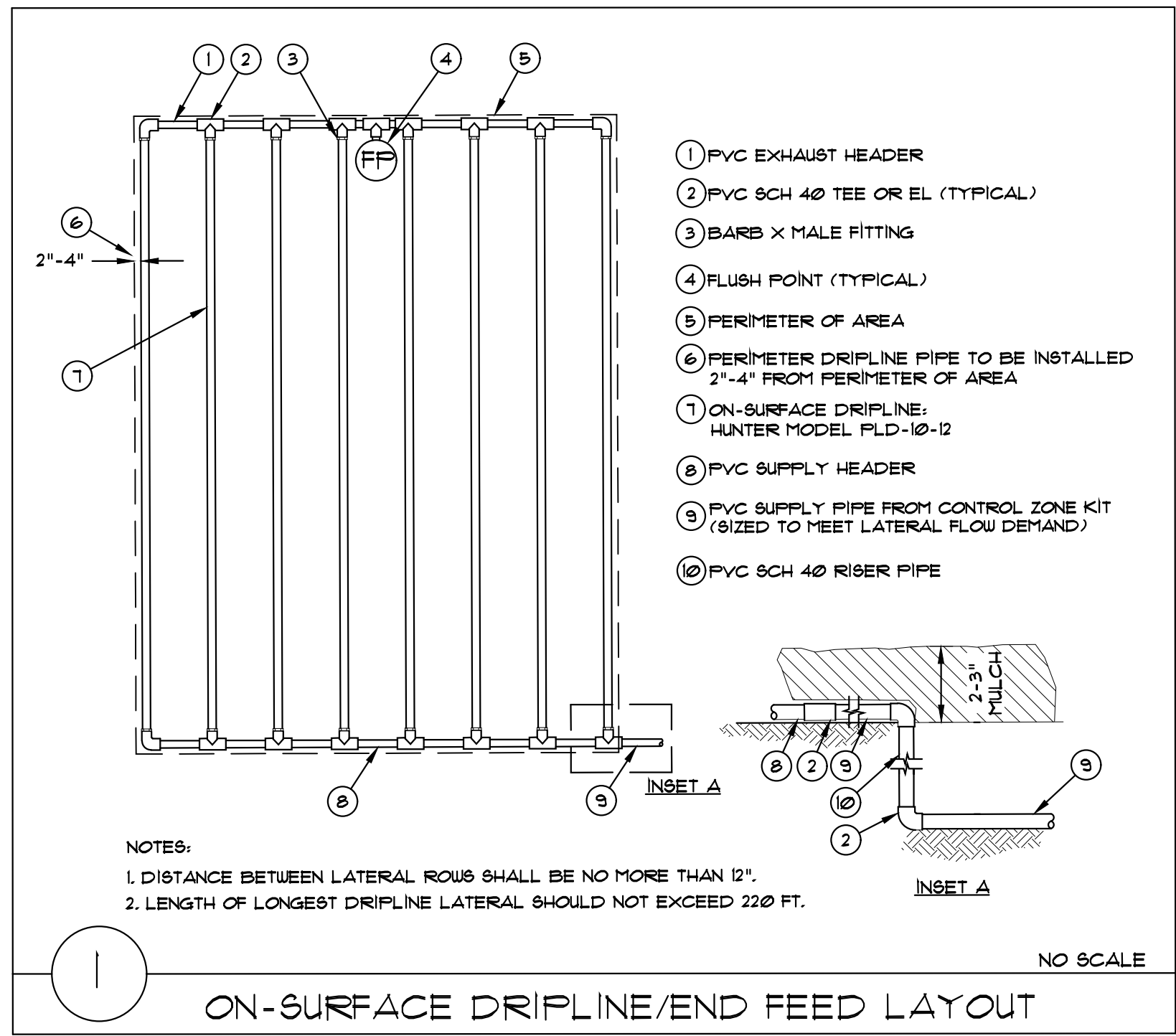
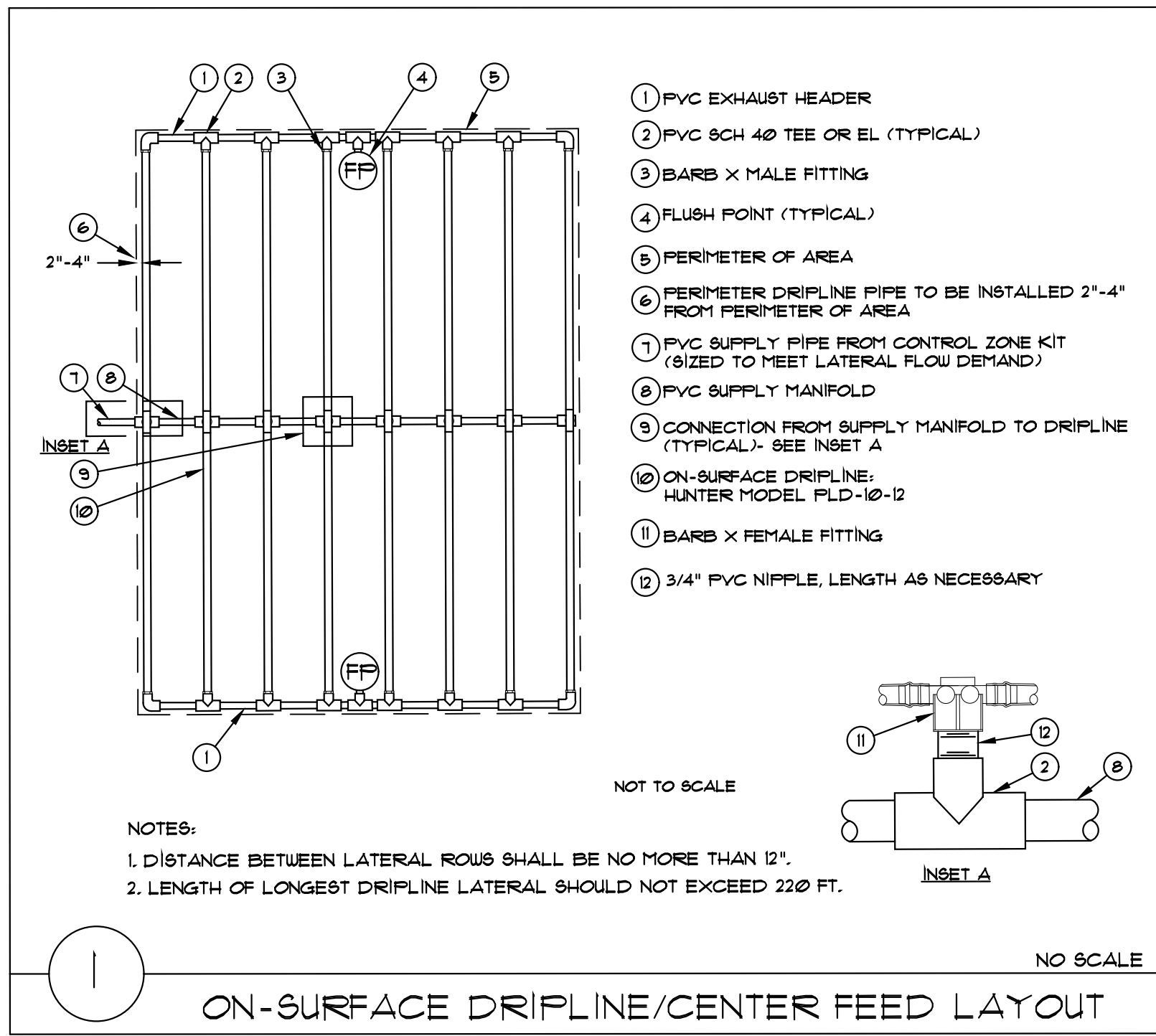
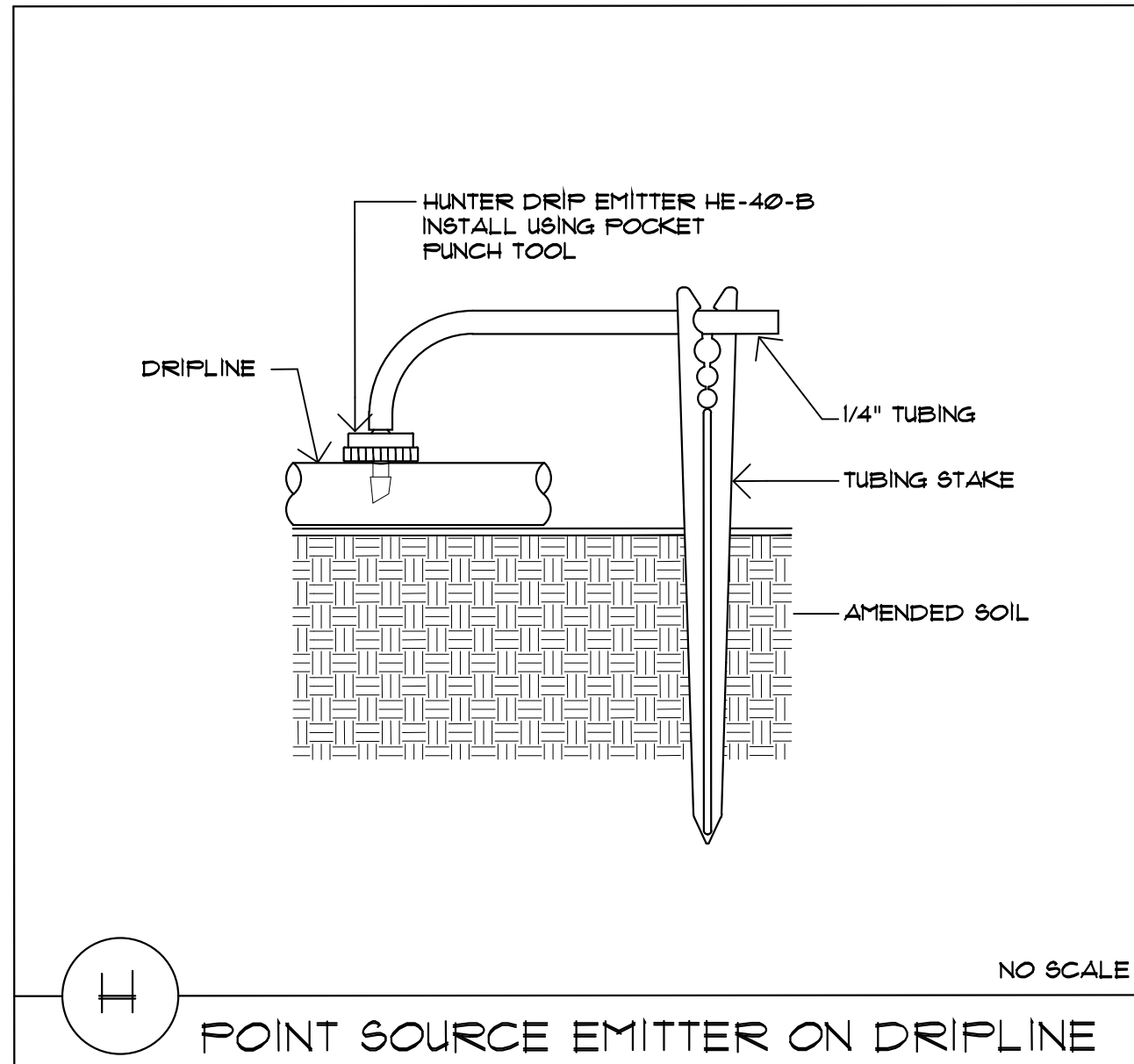
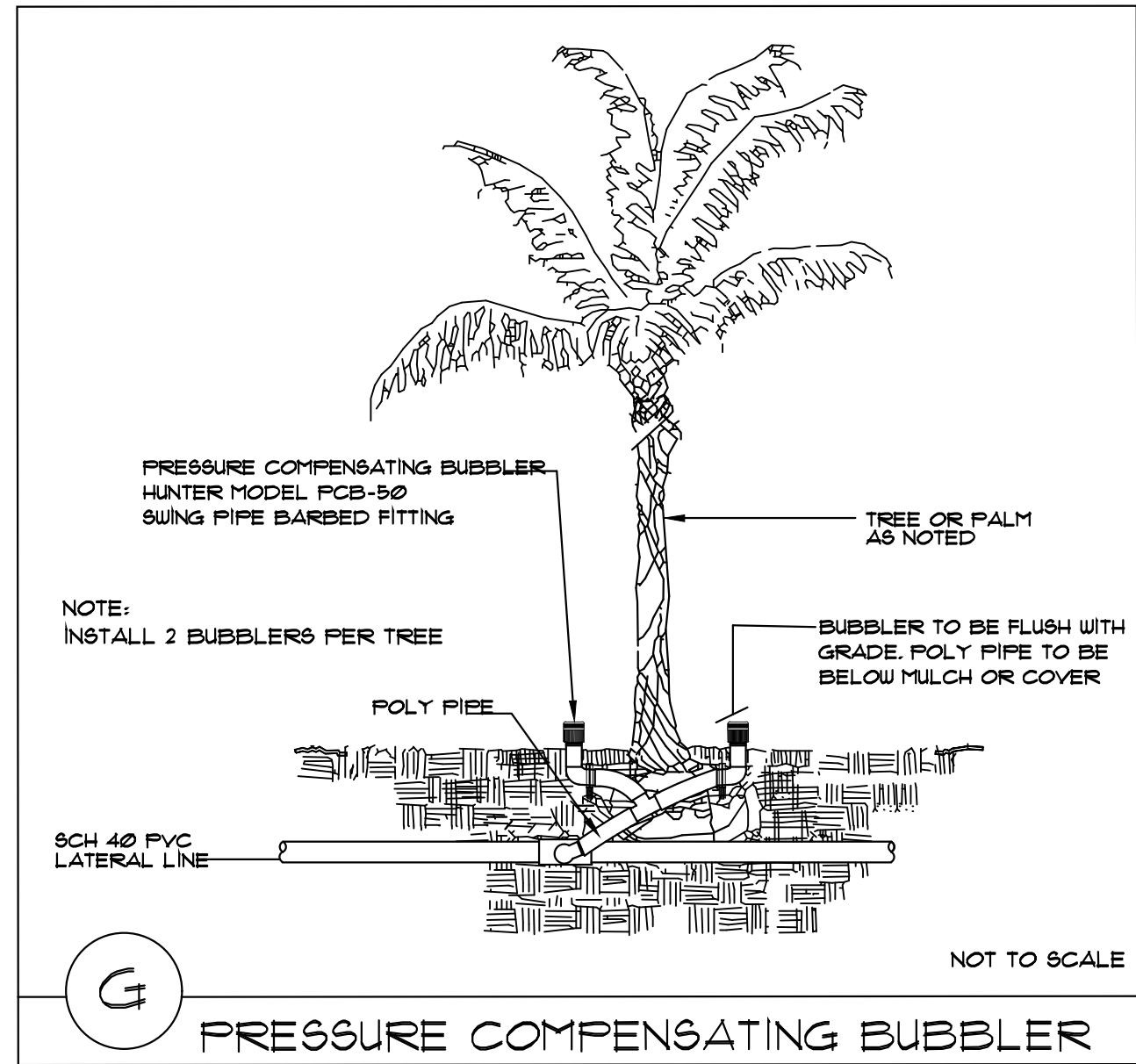
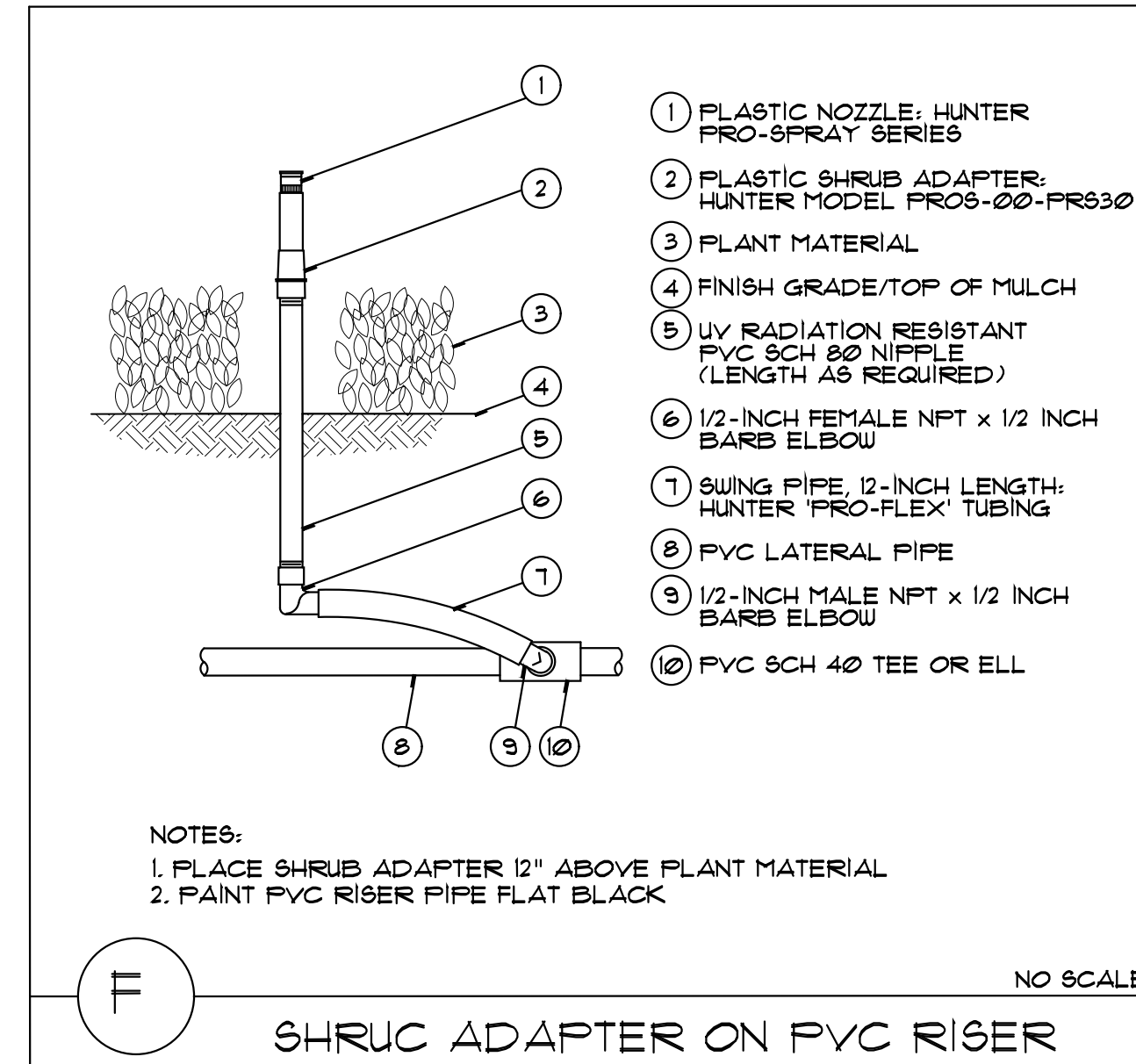
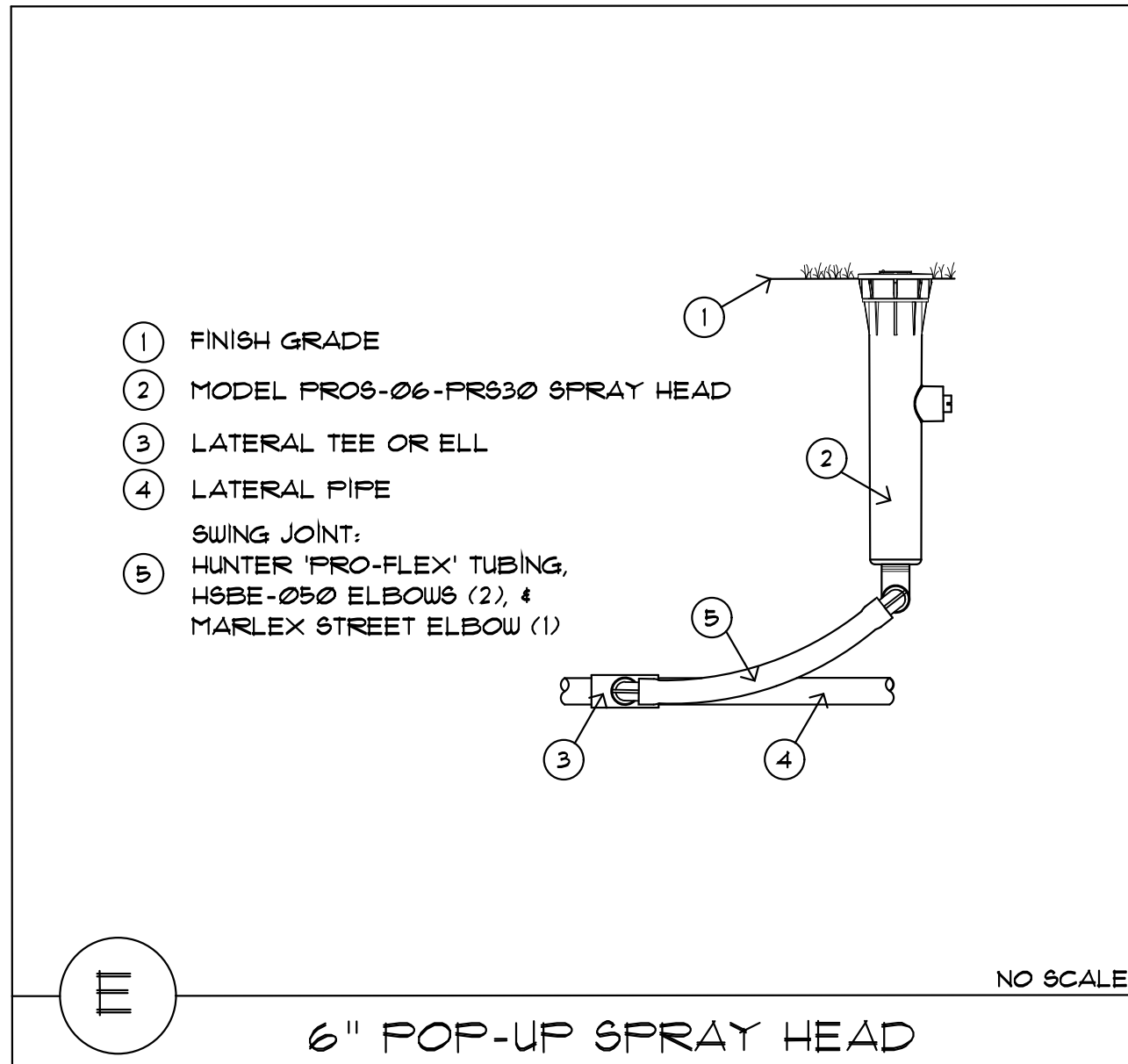
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R-3



IRRIGATION SYSTEM

PART 1-GENERAL

1.01 SCOPE OF WORK:

THE WORK CONSISTS OF FURNISHING ALL LABOR, MATERIAL, EQUIPMENT, TRANSPORTATION, ETC., TO COMPLETE ALL IRRIGATION WORK AS SHOWN ON THE DRAWINGS, AND AS HEREIN SPECIFIED. WORK SHALL INCLUDE ALL CONSTRUCTION AND MAINTENANCE/WATERING OF ALL IRRIGATION AREAS OF THIS CONTRACT UNTIL ACCEPTED BY THE OWNER. WORK SHALL INCLUDE THE FOLLOWING:

- A. ALL PIPING, INCLUDING MAINS, LATERALS, FITTINGS, CONNECTIONS, TEES, RISERS, CLAMPS, SWING JOINTS.
B. ALL CONTROL, GATE, OR OTHER VALVES, INCLUDING VALVE BOXES, MARKERS, CONNECTIONS, BACKFLOW PREVENTERS, OPERATORS, AND OTHER ACCESSORIES.
C. COMPLETE AUTOMATIC CONTROL SYSTEM AS SHOWN ON THE DRAWINGS, INCLUDING CONTROLLER, CONTROL WIRING CONNECTIONS AND ELECTRICAL CONNECTIONS.
D. ALL SPRINKLER HEADS, INCLUDING PROPER NOZZLES AS CALLED FOR HEREIN AND SHOWN ON THE PLANS AND ALL OTHER EQUIPMENT AND ACCESSORIES NECESSARY FOR PROPER OPERATION.
E. ALL EXCAVATION, SITE WORK, RELOCATION OR REPLACEMENT OF UTILITIES, BACK FILL AND RESTORATION OF ALL DISTURBED AREAS INCLUDING THE CUTTING, BACK FILLING AND RESURFACING OF ANY ASPHALT AREAS TRENCHED FOR PIPES AND SLEEVING.
F. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERABLE SYSTEM FOR THE IRRIGATION OF ALL LANDSCAPING ON THE PROJECT SITE. PLANS AND SPECIFICATIONS MAY NOT INDICATE ALL ITEMS NECESSARY FOR THE PROPER IRRIGATION OF THE PROJECT. THIS SHALL NOT RELIEVE THE CONTRACTOR OF HIS OR HER RESPONSIBILITY TO FURNISH LABOR, MATERIALS AND EQUIPMENT REQUIRED FOR A COMPLETE AND PROPER SYSTEM.
G. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING HEAD LOCATION AND ANY OTHER SYSTEM COMPONENTS TO INSURE 100% COVERAGE AND TO COMPLY WITH THE REQUIREMENTS OF THE LANDSCAPING AS INSTALLED.

1.02 SUBMITTALS:

- A. THE CONTRACTOR SHALL MAKE ALL SUBMITTALS IN ACCORDANCE WITH THE GENERAL CONDITIONS. SHOP DRAWINGS SHALL INCLUDE MANUFACTURER'S PRODUCT SPECIFICATIONS AND INSTALLATION INSTRUCTIONS. INCLUDE OTHER DATA AS MAY BE REQUIRED TO SHOW COMPLIANCE WITH THESE SPECIFICATIONS.
B. SUBMIT MANUFACTURER'S TECHNICAL DATA AND INSTALLATION INSTRUCTIONS FOR THE IRRIGATION SYSTEM.
C. PROVIDE AND KEEP UP TO DATE A COMPLETE SET OF DRAWINGS, CORRECTED DAILY TO SHOW CHANGES IN THE LOCATION OF SPRINKLERS, CONTROLLERS, PUMPS, PIPING, AND OTHER DEVIATIONS FROM THE IRRIGATION DESIGN DRAWING. SHOW REMOTE CONTROL VALVE LOCATIONS WITH ACTUAL MEASUREMENTS TO REFERENCE POINTS SO THEY MAY BE LOCATED EASILY IN THE FIELD. UPON COMPLETION OF THE WORK, FURNISH THE OWNER WITH A COMPLETE SET OF PLANS SHOWING THE IRRIGATION SYSTEM AS INSTALLED.
D. ALL DIMENSIONS INDICATED FOR THE IRRIGATION DESIGN ARE APPROXIMATE. PRIOR TO PROCEEDING WITH THE WORK, CONTRACTOR SHALL CAREFULLY CHECK AND VERIFY ALL DIMENSIONS AND REPORT ALL VARIATIONS FROM THOSE INDICATED IN THE IRRIGATION PLAN TO THE OWNER IN WRITING.

1.03 GENERAL REQUIREMENTS

- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTING THE SYSTEM IN COMPLETE ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES, AND LAWS OR ANY MODIFICATIONS MADE TO CONFORM WITH SAID CODES, LAWS AND ORDINANCES SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE AT NO ADDITIONAL COST TO THE OWNER.
B. THE CONTRACTOR SHALL HAVE HIS LABOR CREWS CONTROLLED AND DIRECTED BY AN IRRIGATION FOREMAN WELL VERSED IN STANDARD PLUMBING PROCEDURES, PVC ASSEMBLY PROCEDURES, READING BLUEPRINTS AND COORDINATION WITH OTHERS PERFORMING SERVICES IN THE JOB AREAS IN ORDER TO EXECUTE INSTALLATION RAPIDLY AND CORRECTLY. THE FOREMAN SHALL BE ON THE WORK SITE AT ALL TIMES, AND SHALL BE FULLY AUTHORIZED AS THE CONTRACTOR'S AGENT ON THE JOB.
C. TESTING: THE CONTRACTOR SHALL REPLACE ALL WORK THAT FAILS THE TESTING REQUIREMENTS OR THAT WAS INSTALLED IN VIOLATION OF THE STANDARDS OUTLINED IN THESE SECTION.
D. CONTRACTOR'S RESPONSIBILITY:

- 1. THE CONTRACTOR IS ENTIRELY RESPONSIBLE FOR THE WORK UNTIL THE WORK IS DETERMINED TO BE SUBSTANTIALLY COMPLETE.
2. THE CONTRACTOR SHALL PROTECT ALL MATERIALS AND WORK AGAINST INJURY FROM ANY CAUSE AND SHALL PROVIDE AND MAINTAIN ALL NECESSARY GUARDS FOR THE PROTECTION OF THE PUBLIC. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY NEGLIGENCE IN THE PROTECTION OF THE WORK.
3. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES SHOWN OR NOT SHOWN ON THE PLANS AND PROVIDING PROPER PROTECTION FOR THE UTILITIES. ANY CHARGES OR FINES ASSESSED BY DISRUPTING A UTILITY ARE THE RESPONSIBILITY OF THE CONTRACTOR.

1.04 DELIVERY, STORAGE AND HANDLING

- A. MATERIALS DELIVERED TO THE SITE SHALL BE LEFT IN THEIR ORIGINAL BOXES, WRAPPINGS OR CONTAINERS UNTIL SUCH TIME AS THEY ARE EMPLOYED IN THE PROJECT CONSTRUCTION. THIS PROVISION DOES NOT INCLUDE UNPACKING FOR INSPECTION PURPOSES.
B. ANY SUBSTITUTIONS MADE FOR REASONS OF UNAVAILABILITY OF MATERIALS OR OTHER REASONS MUST BE APPROVED BY THE OWNER.
C. ALL MATERIAL AND MANUFACTURER WARRANTIES AND GUARANTEES SHALL BE GIVEN TO THE OWNER AT THE FINAL ACCEPTANCE OF THE PROJECT.

PART 2 - MATERIALS

2.01 PIPE

- A. ALL PIPE SHALL BE NEW AND FREE FROM DEFECTS, AND CONTINUOUSLY MARKED WITH IDENTIFICATION OF THE MANUFACTURER, TYPE, CLASS AND SIZE.
B. PLASTIC PIPE FOR THE MAIN WATER LINES, AND ALL SLEEVES, SHALL BE SCHEDULE 40 UNPLASTICIZED POLYVINYL CHLORIDE PIPE, SOLVENT WELD TYPE, FOR USE WITH SCHEDULE 40 PVC FITTINGS. PLASTIC PIPE USED FOR LATERALS SHALL BE CLASS 200 PSI SDR (MINIMUM), UNPLASTICIZED POLYVINYL PIPE, TYPE 1120 OR 1220, SOLVENT WELD TYPE, FITTINGS, EXCEPT AS OTHERWISE SPECIFIED, SHALL BE PVC, MINIMUM OF SCHEDULE 40, PIPE AND FITTINGS SHALL BE MANUFACTURED FROM CLEAN, VIRGIN, NSF APPROVED TYPE I, GRADE I, PVC, CONFORMING TO ASTM RE81N SPECIFICATIONS D1784 AND D2241.

- C. ALL TAPS ON MAIN OR LATERALS SHALL BE MADE WITH TEES. ALL NON-THREADED TYPE JOINTS SHALL BE SOCKET TYPE, DESIGNED FOR SOLVENT TYPE APPLICATION.
D. PRIOR TO THE CONNECTION OF ANY JOINT WITH PVC GLUE, THE FITTING AND PIPES SHALL BE TREATED WITH A HIGH ETCH PVC CLEANER. THE CLEANER AND SOLVENT USED SHALL BE COMPATIBLE WITH THE PVC PIPE USED. SCREW JOINTS SHALL BE MADE WITH AN ACCEPTABLE SCREW JOINT PIPE JOINT COMPOUND. UPON COMPLETION OF GLUE JOINTS, THE IRRIGATION SYSTEM SHALL REMAIN OUT OF SERVICE FOR THE PERIOD OF TIME SPECIFIED BY THE GLUE MANUFACTURER.
E. ALL SLEEVES SHALL BE 2 NOMINAL PIPE SIZES LARGER THAN THE SIZE OF PIPE TO BE ACCOMMODATED.

2.03 CONTROL LINES

- A. ELECTRIC CONTROL WIRE - ALL ELECTRIC CONTROL AND GROUND WIRE SHALL BE NOT LESS THAN 16 GAUGE. ALL WIRING TO BE USED FOR CONNECTION TO THE AUTOMATIC REMOTE CONTROL VALVES TO THE AUTOMATIC CONTROLLERS SHALL BE TYPE "UF", 600 VOLT, STRANDED OR SOLID COPPER, SINGLE CONDUCTOR WIRE WITH PVC INSULATION AND BEAR UL APPROVAL FOR DIRECT UNDERGROUND BURIAL FEEDER CABLE.
B. INSULATION SHALL BE 4/64" THICK MINIMUM COVERING FOR POSITIVE WATERPROOF PROTECTION OF SIZES AWG SIZE 18 THROUGH AND INCLUDING AWG SIZE 10, AWG SIZE 8 THROUGH AWG SIZE 00 SHALL BE INSULATED WITH 5/64" THICK MINIMUM COVERING.
C. VERIFICATION OF WIRE TYPES AND INSTALLATION PROCEDURES SHALL BE CHECKED TO CONFORM TO LOCAL CODES.
D. PULSE CIRCUIT WIRES SHALL BE RED IN COLOR, COMMON WIRE SHALL BE WHITE AND SPARE WIRES SHALL BE BLUE IN COLOR.

2.04 CONTROL EQUIPMENT

- A. AUTOMATIC CONTROLLER WITH A RAIN/SOLAR SENSOR, SHALL BE AS NOTED ON DRAWINGS. THE CONTROLLER SHALL BE SECURELY MOUNTED AS NOTED IN THE DRAWINGS.
B. AUTOMATIC CONTROL VALVES SHALL BE AS NOTED ON THE DRAWINGS. ALL VALVES SHALL BE SIZED AS NOTED ON THE DRAWINGS. VALVE BOXES SHALL BE SIZED LARGE ENOUGH TO ALLOW REPAIR OF THE VALVE WITHOUT REQUIRING ITS REMOVAL FROM THE VALVE BOX.

2.05 SPRINKLER HEADS

- A. PROVIDE ALL SPRINKLERS AS SHOWN ON IRRIGATION DESIGN DRAWINGS, OR AN EQUAL ACCEPTED IN WRITING.
B. ALL SPRINKLER NOZZLES SHALL PERFORM TO THE MANUFACTURER'S SPECIFICATIONS CONCERNING DIAMETER OF THROW AND GALLONAGE AT GIVEN PRESSURES.

PART 3 - EXECUTION

3.01 TRENCHING

- A. PERFORM ALL EXCAVATION NECESSARY TO INSTALL THE SYSTEM AS INDICATED ON DRAWINGS, INCLUDING ALL NECESSARY CLEARING AND GRUBBING OF ANY FOREIGN SUBSTANCE ENCOUNTERED IN TRENCH AREA. FILL EXCAVATION MATERIAL SUITABLE FOR BACK FILL AT A SUFFICIENT DISTANCE FROM TRENCH TO AVOID OVERLOADING, SLIDES AND/OR CAVE-INS. DISPOSE OF, OFF SITE, ALL ORGANIC OR UNSUITABLE FILL MATERIALS REMOVED DURING EXCAVATION. PROVIDE ADDITIONAL SUITABLE FILL MATERIALS REQUIRED FOR BACK FILLING OF EXCAVATED AREAS.
B. MAKE TRENCH BOTTOMS SMOOTH, CLEAN AND FREE OF ALL STONES, STUMPS AND ORGANIC MATTER. IF SUCH MATERIALS ARE ENCOUNTERED IN TRENCHING, EXCAVATE TRENCH 6 INCHES DEEPER THAN ORDINARILY REQUIRED AND SPREAD A 6" LAYER OF SAND TO PROVIDE A FIRM BEDDING FOR THE PIPE.
C. PROVIDE 18" COVER OVER MAINLINES AND 12" MINIMUM DEPTH OF COVER OVER ALL LATERAL PIPING.
D. EXCAVATE TRENCHES TO A WIDTH TO ALLOW A MINIMUM OF 6" BETWEEN PARALLEL PIPE LINES.

3.02 BACK FILLING

- A. BACK FILL OVER-EXCAVATION OF TRENCHES UNDER PIPE WITH CLEAN, SANDY FILL MATERIAL, FREE OF ORGANIC MATERIALS AND OBJECTS LARGER THAN 1/4" DIAMETER. BACK FILL ONLY AFTER PRESSURE TESTING.
B. BACK FILL TRENCHES FROM 2" ABOVE TOP OF PIPE UP TO FINISH GRADE WITH CLEAN SANDY FILL MATERIAL REMOVED BY EXCAVATION.
C. INSTALL WIRE IN TRENCH WITH PIPE, TAPING WIRE TO PIPE AT 10 FOOT INTERVALS.
D. NO PAVEMENT EXCEPT AS NOTED, SHALL BE CUT TO INSTALL IRRIGATION WORK. COORDINATE WITH PAVING OPERATION TO ASSURE ALL SLEEVES ARE INSTALLED UNDER DRIVES AND WALKWAYS PRIOR TO PAVING.

3.03 INSTALLATION

- A. INSTALL ALL MATERIALS AND EQUIPMENT IN A NEAT AND WORKMANLIKE MANNER FOLLOWING THE RECOMMENDATIONS OF THE MANUFACTURERS OF THE MATERIALS. THE OWNER RETAINS THE RIGHT TO ORDER REMOVAL OF REPLACEMENT OF ANY ITEM WHICH, IN HIS OPINION, DO NOT PRESENT A REASONABLE NEAT AND WORKMANLIKE APPEARANCE. PERFORM AND COMPLETE ANY REQUIRED REMOVAL AND REPLACING OF MATERIALS WITHOUT ADDITIONAL EXPENSE TO THE OWNER.
B. INDIVIDUALLY SLEEVE ALL PVC PIPING THAT CROSS WALKWAYS AND PATHWAYS MORE THAN 5' IN WIDTH. ALL SLEEVES UNDER ROADWAYS AND WALKWAYS SHALL BE INSTALLED A MINIMUM OF 24" BELOW GRADE.
C. INSTALL ALL VALVE BOXES, OR ANY OTHER MISCELLANEOUS MARKER OR ACCESS BOX SO THE TOP OF SAID STRUCTURE IS AT FINISHED GRADE UNDER LAID WITH A MINIMUM OF 6" OF 3/4" GRAVEL. INSTALL ALL VALVE BOXES AS INDICATED ON DRAWINGS.
D. ADJUST AUTOMATIC CONTROL VALVES TO PROVIDE FLOW RATE OF RATED OPERATING PRESSURE REQUIRED FOR EACH SPRINKLER CIRCUIT.
E. INSTALL ELECTRIC REMOTE CONTROL VALVES AS INDICATED ON THE DRAWINGS AND ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
F. ADJUST FLOW CONTROL STEM ON ALL REMOTE CONTROL ZONE VALVES TO MINIMIZE ANY OVER PRESSURIZATION BEFORE ANY INDIVIDUAL NOZZLE ADJUSTMENTS ON THE SPRINKLERS ARE PERFORMED.

3.04 PIPING

- A. PVC PIPE SHALL BE PROTECTED FROM DIRECT SUNLIGHT WHILE IN STORAGE. PIPE SHALL BE KEPT CLEAN AND CHECKED FOR PRESENCE OF ORGANIC OR FOREIGN MATERIAL PRIOR TO INSTALLATION. EACH PIPE SHALL BE LAID IN ACCORDANCE WITH LINES SHOWN ON THE DRAWINGS.
B. PRIOR TO BACK FILL, PVC PIPE IN TRENCH SHALL BE PROTECTED FROM DIRECT SUNLIGHT BY COVERING WITH A LAYER OF CLEAN SANDY MATERIAL. PIPE SHALL ALSO BE COVERED WITH FILL MATERIAL, OTHERWISE ANCHORED, TO PREVENT FLOATING IN EVENT WATER ENTERS TRENCH PRIOR TO COMPLETE BACKFILLING.
C. SUBSTANTIAL DEVIATION FROM THE PIPING LAYOUT SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT AND SHALL BE RECORDED AS WORK PROGRESSES AND AS-BUILT DRAWINGS OF COMPLETE IRRIGATION SYSTEM SHALL BE FURNISHED TO THE LANDSCAPE ARCHITECT OR OWNER AS PREVIOUSLY SPECIFIED IN THIS SECTION.

- D. INSTALLATION OF SYSTEM PIPING SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND SHALL PROCEED FROM POINT OF CONNECTION OF WATER SUPPLY. ALL PIPING AND EQUIPMENT JOINTS SHALL BE WATER TIGHT. THE MAIN LINE SHALL BE FLUSHED PRIOR TO MAKING ANY LATERAL CONNECTIONS. ALL LATERAL LINES SHALL BE THOROUGHLY FLUSHED PRIOR TO INSTALLATION OF ANY SPRINKLER NOZZLES.

3.05 SPRINKLERS

- A. PRIOR TO INSTALLING SPRINKLER HEADS, FLUSH CIRCUIT LINES WITH WATER UNTIL FREE OF DEBRIS.
B. ALL SPRINKLER HEADS SHALL BE INSTALLED ON SWING JOINT AS SHOWN ON THE DRAWINGS. THE SPRINKLER HEAD SHALL BE INSTALLED SO THAT THE TOP IS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION WITH RESPECT TO THE FINISHED GRADE LEVEL, AND MARKED WITH A FLAG TO ASSIST IN PREVENTING DAMAGE TO SPRINKLER HEADS. BACK FILL AROUND SWING JOINTS AND SPRINKLERS SHALL BE CLEAN SAND FILL MATERIAL FREE OF ROCKS, ORGANICS, OR OTHER FOREIGN DEBRIS.
C. LOCATE PART-CIRCLE HEADS TO MAINTAIN A MINIMUM DISTANCE OF 12" FROM WALLS AND 6" FROM OTHER BOUNDARIES, UNLESS OTHERWISE INDICATED.
D. ALL BUBBLERS SHALL BE INSTALLED IMMEDIATELY ADJACENT TO THE TREE TO BE IRRIGATED. IF THE TREE IS LOCATED ON A SLOPE, THE BUBBLER SHOULD BE LOCATED AT THE TREE BALL NEAR THE HIGH SIDE OF THE SLOPE.

3.06 ELECTRICAL COMPONENTS

- A. SIZE ALL ELECTRIC CONTROL WIRE AS PREVIOUSLY STATED, INSTALL IN THE PIPING TRENCHES WHEREVER POSSIBLE AND PLACE UNDER THE PVC PIPING. TAPE CONTROL WIRES TOGETHER WITH ELECTRICAL TAPE NOT MORE THAN 10 FEET O.C. SNAKE WIRE INTO THE TRENCH AS LOOSE AS POSSIBLE AND WITH AS MUCH SLACK AS POSSIBLE TO ALLOW FOR THE EXPANSION AND CONTRACTION OF THE WIRE.
B. CONNECTIONS AT ALL REMOTE CONTROL VALVES AND AT ALL WIRE SPLICES, LEAVE WIRE WITH SUFFICIENT SLACK SO THAT IN CASE OF REPAIR THE VALVE BONNET OR SPLICE MAY BE BROUGHT TO THE SURFACE WITHOUT DISCONNECTING THE WIRES. SPLICE ALL WIRE IN VALVE BOXES. MAKE SPLICES USING UL LISTED WATERPROOF WIRE CONNECTORS AS RECOMMENDED BY THE WIRE MANUFACTURER.
C. PROVIDE WIRE SIZES TO REMOTE CONTROL VALVES NOT LESS THAN 16 GAUGE. CONNECT ALL REMOTE CONTROL VALVES, WHICH ARE TO BE CONNECTED TO THE SAME CONTROLLER, TO A COMMON GROUND WIRE OF A SIZE NOT LESS THAN 16 GAUGE. PROVIDE EACH INDIVIDUAL CONTROLLER WITH A SEPARATE COMMON GROUND WIRE WIRE SYSTEM ENTIRELY INDEPENDENT OF THE COMMON GROUND WIRE SYSTEM OF ALL OTHER CONTROLLERS. CONNECT ONLY THOSE REMOTE CONTROL VALVES THAT ARE BEING CONTROLLED BY ONE SPECIFIC CONTROLLER, TO THAT CONTROLLER'S COMMON GROUND WIRE SYSTEM. THE CONTROL VALVE CONFIGURATION PIPING SHALL NOT BE OF THE PREFABRICATED TYPE BUT SHALL BE MANUFACTURED IN THE FIELD ONLY USING SCHEDULE 80 NIPPLES AND COUPLINGS. INSTALL ALL VALVES IN VALVE BOXES.
D. INSTALL ALL VALVE BOXES SO THAT THE TOPS OF ALL BOXES ARE LEVEL WITH EACH OTHER AND THE SIDES OF ALL BOXES ARE PARALLEL TO EACH OTHER.
E. INSTALL ALL CONTROLLERS IN ACCORDANCE WITH THE REQUIREMENTS OF THE MANUFACTURER OF EQUIPMENT WITH LOCATION OF ALL CONTROLLERS APPROVED BY THE OWNER BEFORE THE ACTUAL INSTALLATION OF THE CONTROLLERS.
F. INSTALL LIGHTNING PROTECTION IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS TO PROTECT EACH AUTOMATIC CONTROLLER.
G. USE DIELECTRIC FITTINGS AT CONNECTION WHERE PIPES OF DISSIMILAR METAL ARE JOINED.

3.07 TESTS

- A. PERFORM OPERATIONAL TESTING AFTER BACK FILL, IS IN PLACE, AND SPRINKLER HEADS ARE ADJUSTED TO FINAL POSITION. DEMONSTRATE TO OWNER THAT SYSTEM MEETS COVERAGE REQUIREMENTS AND THAT AUTOMATIC CONTROLS FUNCTION PROPERLY. COVERAGE REQUIREMENTS ARE BASED ON OPERATION OF ONE CIRCUIT AT A TIME.
B. AFTER COMPLETION OF GRADING, SEEDING OR SODDING, AND ROLLING OF GRASS AREAS, CAREFULLY ADJUST LAWN SPRINKLER HEADS SO THAT THEY WILL BE FLUSH WITH FINISH GRADE.
C. ADJUST THE VARIOUS COMPONENTS OF THE SPRINKLER SYSTEM SO THE OVERALL OPERATION OF THE SYSTEM IS EFFICIENT. BALANCING AND ADJUSTMENT SHALL INCLUDE A SYNCHRONIZATION OF THE CONTROLLERS, WATER QUALITY CONTROL EQUIPMENT, SPRINKLER HEADS, AND INDIVIDUAL STATION ADJUSTMENTS ON THE CONTROLLERS.
D. UPON COMPLETION OF THE WORK AND FINAL ACCEPTANCE BY THE OWNER, TRAIN MAINTENANCE PERSONNEL IN THE OPERATION, MAINTENANCE, AND REPAIR OF THE SYSTEM. PROVIDE COPIES OF MATERIALS, ALL PARTS LISTS, TROUBLE SHOOTING LISTS, SPECIFICATIONS SHEETS, AND CATALOG SHEETS TO THE SCHEDULES AND PROGRAMMING OF THE AUTOMATIC CONTROLLERS IN ACCORDANCE WITH THE SPECIFICATIONS AND/OR IRRIGATION DRAWINGS. SUBMIT ALL WARRANTY INFORMATION TO OWNER.

3.08 WARRANTY

- A. ALL WORK SHALL BE GUARANTEED FOR ONE YEAR FROM DATE OF ACCEPTANCE AGAINST ALL DEFECTS IN MATERIALS, EQUIPMENT AND WORKMANSHIP. GUARANTEE SHALL ALSO COVER REPAIR OF DAMAGE TO ANY PART OF THE PREMISES RESULTING FROM LEAKS OR OTHER DEFECTS IN MATERIAL, EQUIPMENT AND WORKMANSHIP TO THE SATISFACTORY OF THE OWNER. REPAIRS, IF REQUIRED, SHALL BE DONE PROMPTLY AT NO COST TO THE OWNER.

Logo for Gentile Glas Holloway O'Mahoney & Associates, Inc. with contact information: 1907 Commerce Lane, Suite 101, Jupiter, Florida 33458, 561-575-9557, 561-575-5260 FAX, www.ZGH.com

Final Irrigation Plan
Crab Pot Site
Riviera Beach, Florida

Designed: CLS
Drawn: CLS
Approved: GGG/EOM/MTM
Date: 2-17-17
Job no. 15-107
Revisions:

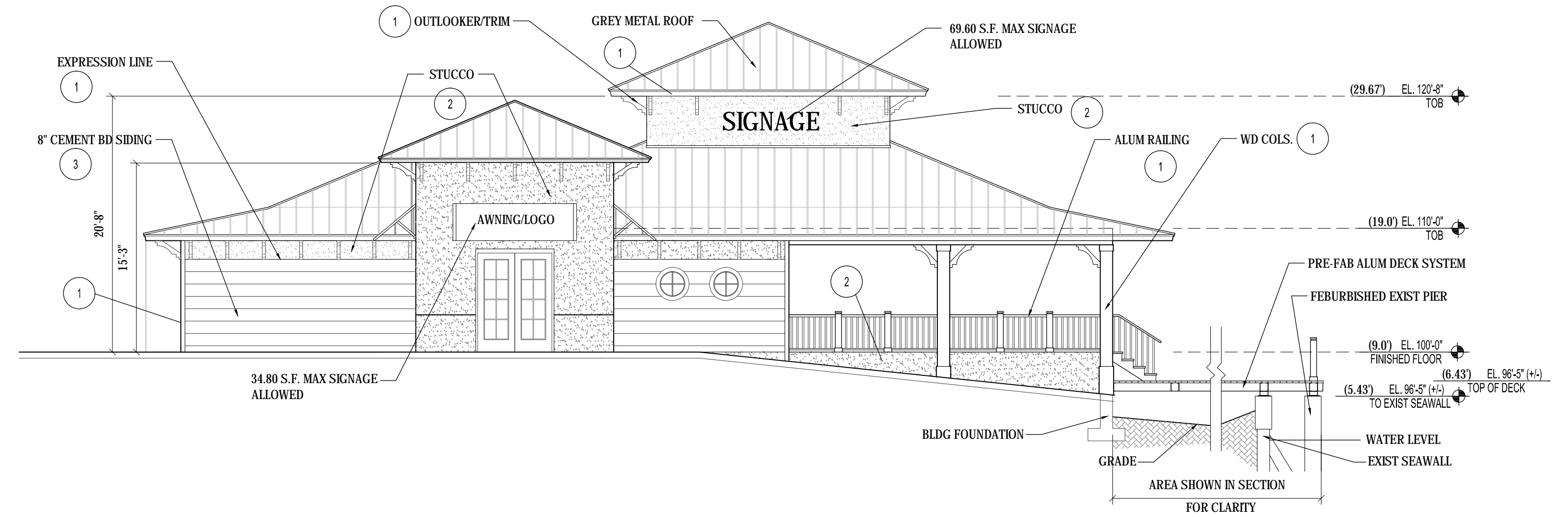
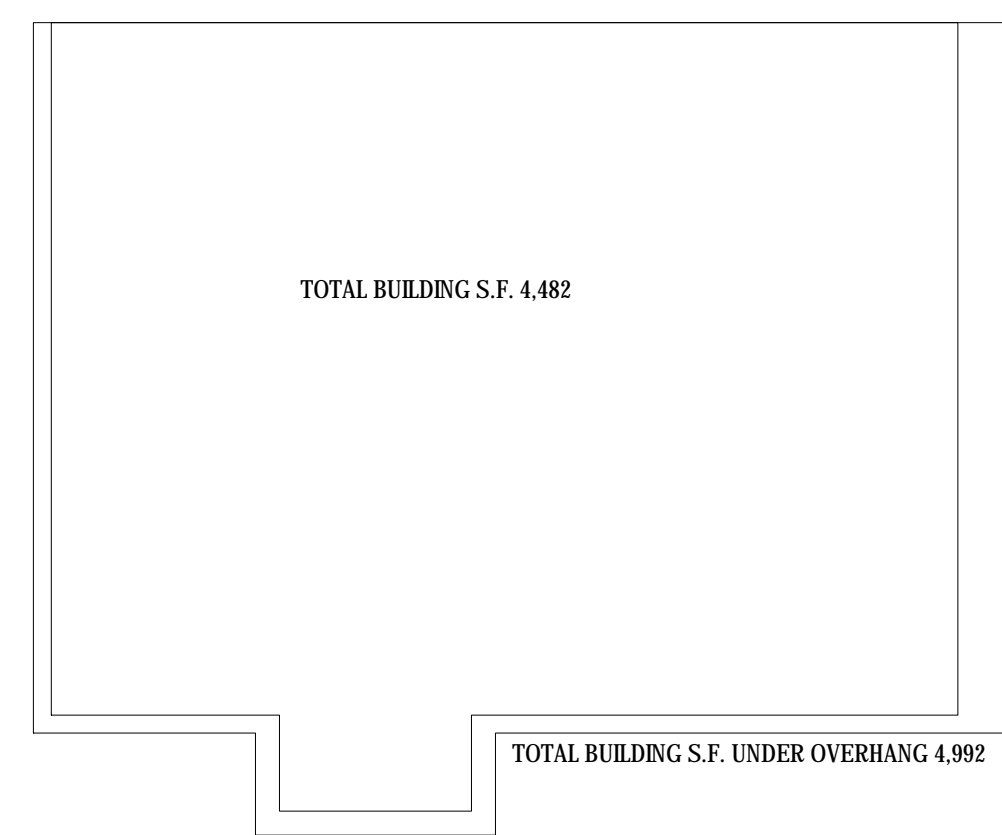
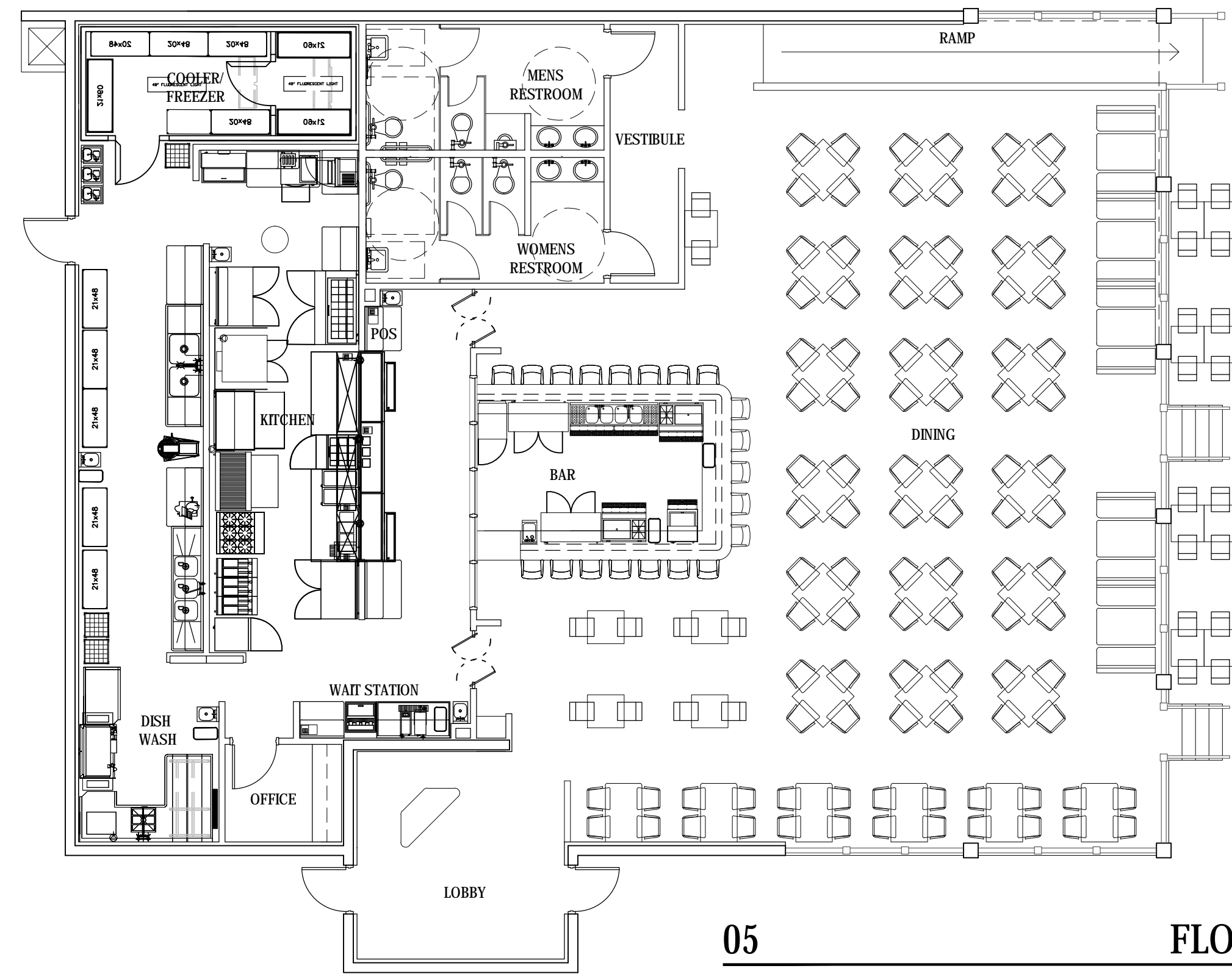
Seal

LC 0000171
Sheet Title:

Irrigation Specifications

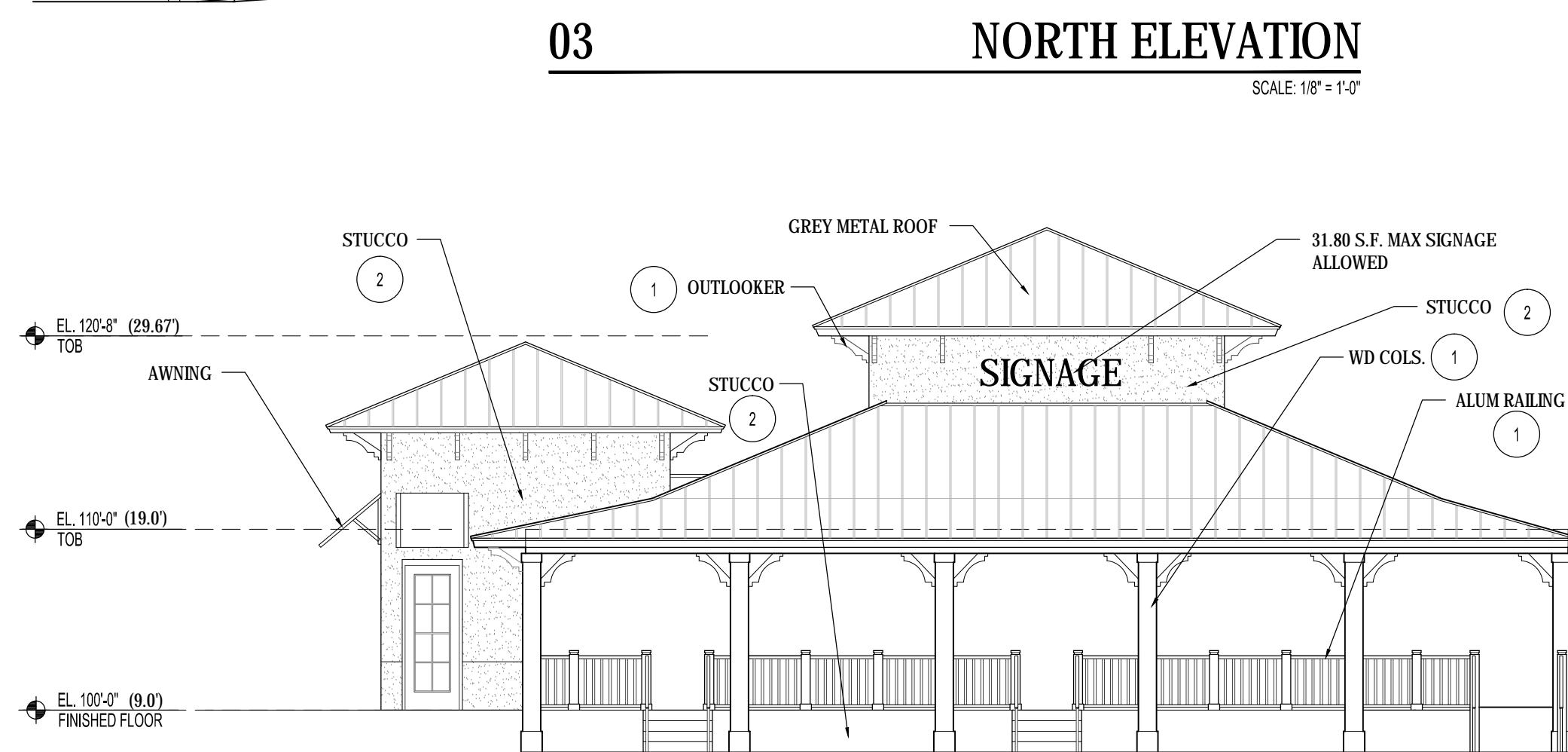
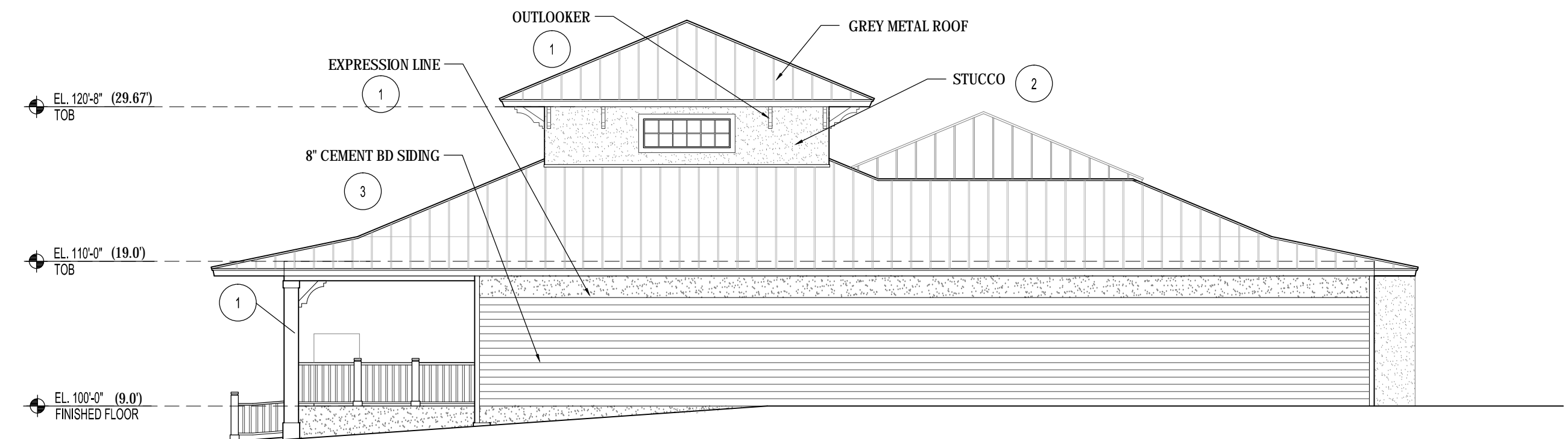
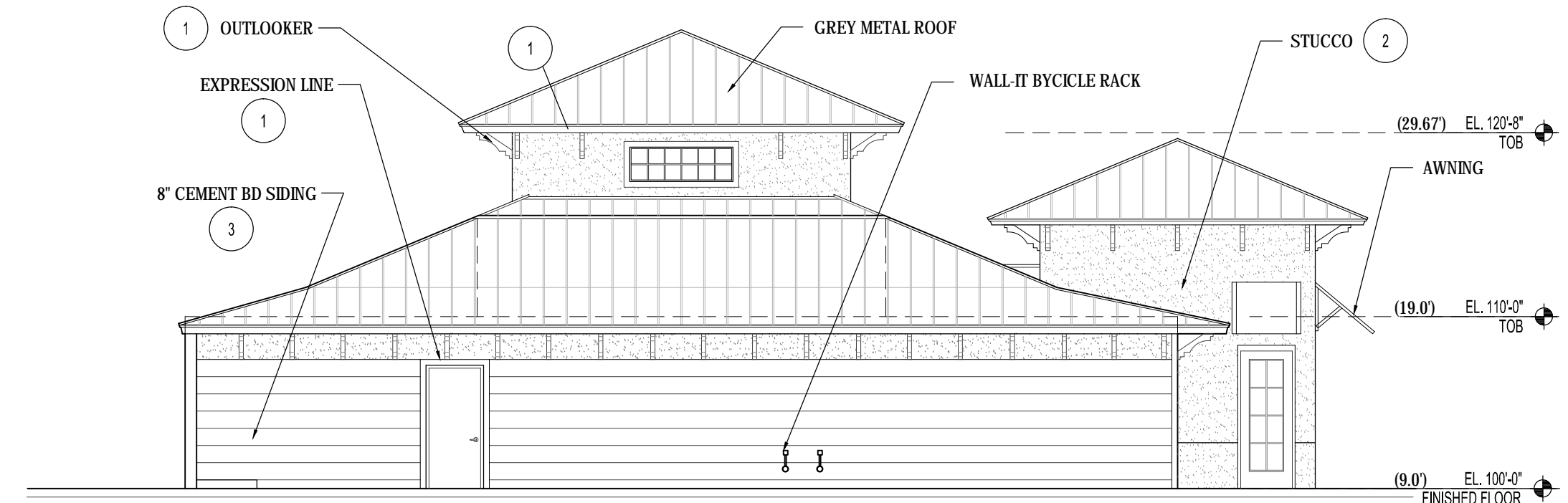
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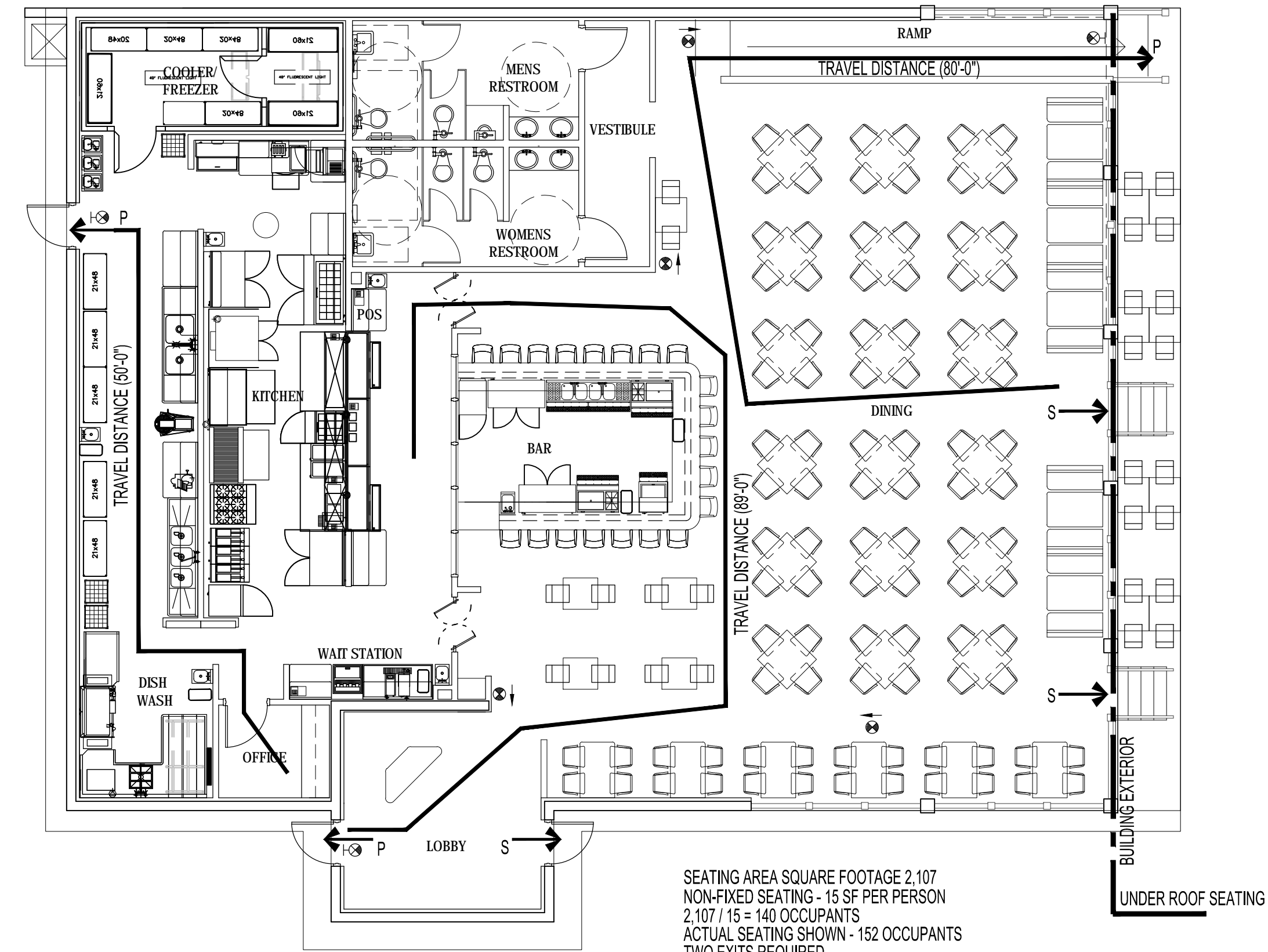
R-4



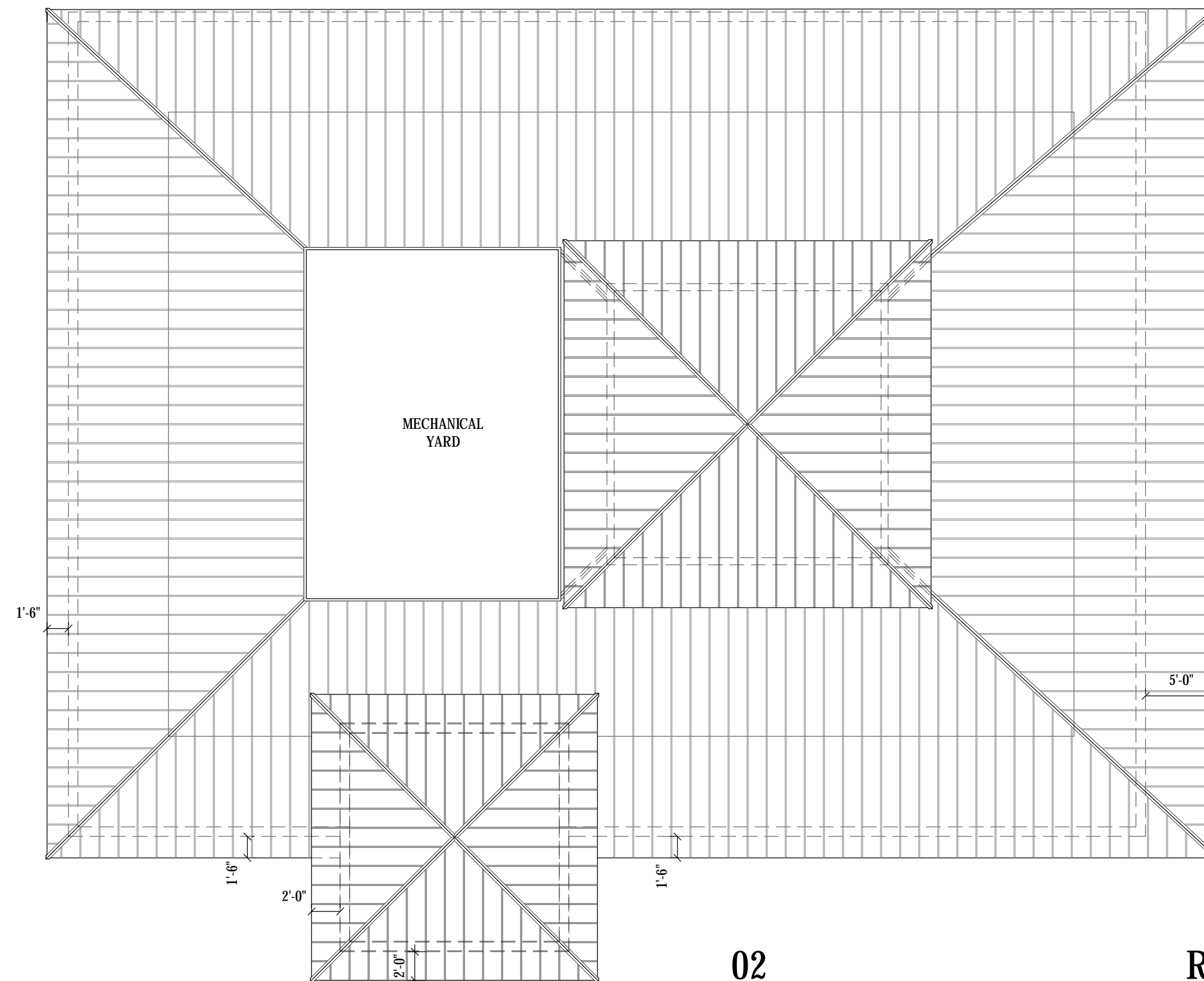
COLOR LEGEND

1	SHERWIN WILLIAMS: SW 7004 SNOWBOUND
2	SHERWIN WILLIAMS: SW 6078 REALIST BEGE
3	SHERWIN WILLIAMS: SW 6077 EVERYDAY WHITE





01 LIFE SAFETY PLAN
 SCALE: 1/8" = 1'-0"



02 ROOF PLAN
 SCALE: 1/8" = 1'-0"

HARVARD • JOLLY
ARCHITECTURE

FL Myers 238-275-7774
 Jacksonville 904-396-3300
 Orlando 407-978-9444
 St. Petersburg 727-896-4811
 Tampa 813-286-8206
 AIA/CES 000119
 Designer: J. Jolly, P.E.
 DESIGN OFFICE LOCATION: 2047 VISTA PARKWAY, STE. 100, WEST PALM BEACH, FL 33411, PH: 561-478-4457

NEW RESTAURANT
 CRAB POT SITE
 386 EAST BLUE HERON BLVD.
 RIVIERA BEACH,
 FLORIDA

Comm. No: 15158.00

Date: 9-26-16

Drawn: LPC

Revised:

1 2-28-17

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- △
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- △
- △

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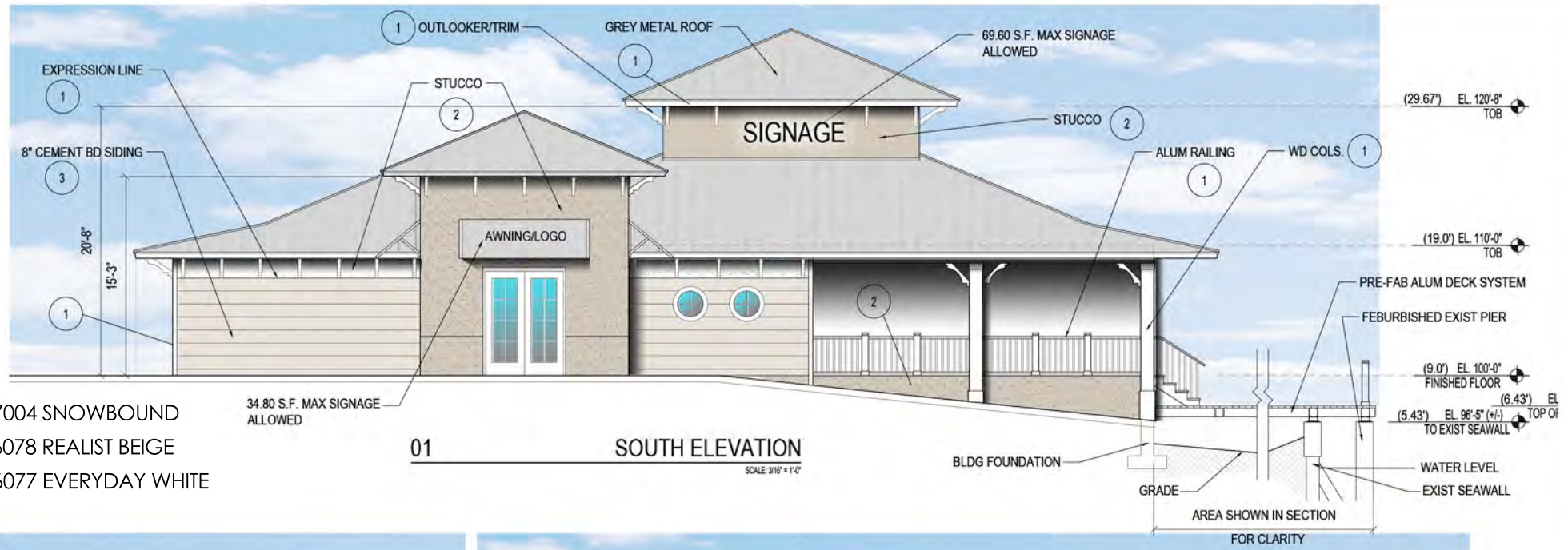
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René Tercilla AIA, REFP

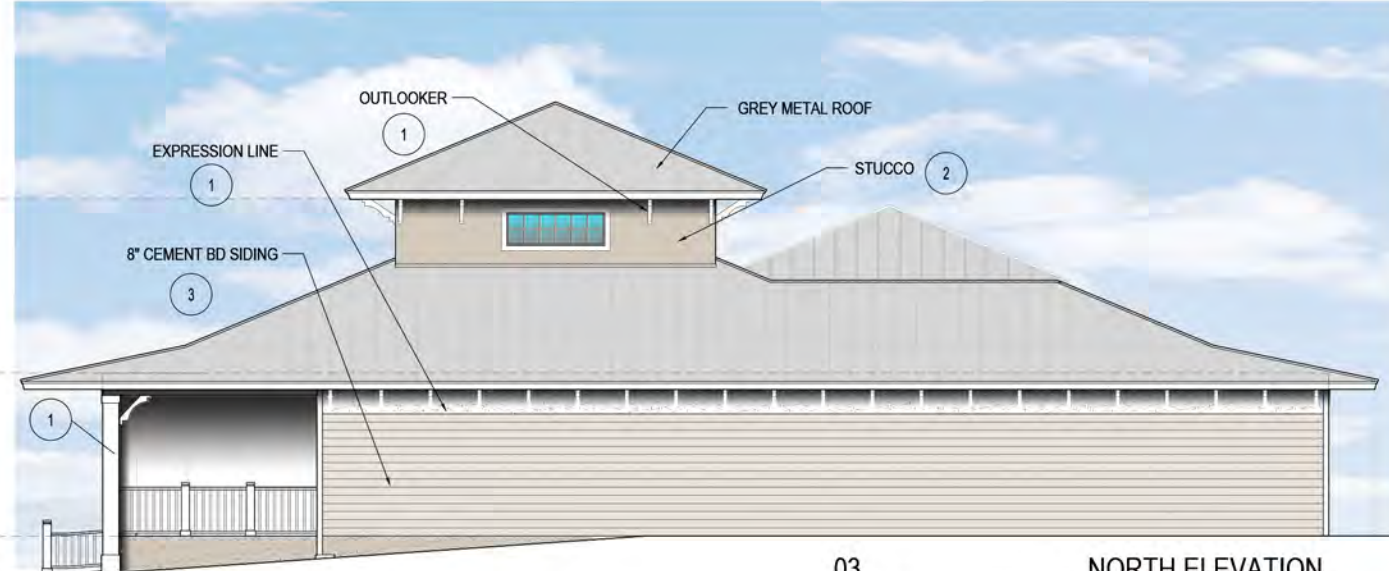
A1.2

COLOR LEGEND	
①	SHERWIN WILLIAMS SW 7004 SNOWBOUND
②	SHERWIN WILLIAMS SW 6078 REALIST BEIGE
③	SHERWIN WILLIAMS SW 6077 EVERYDAY WHITE

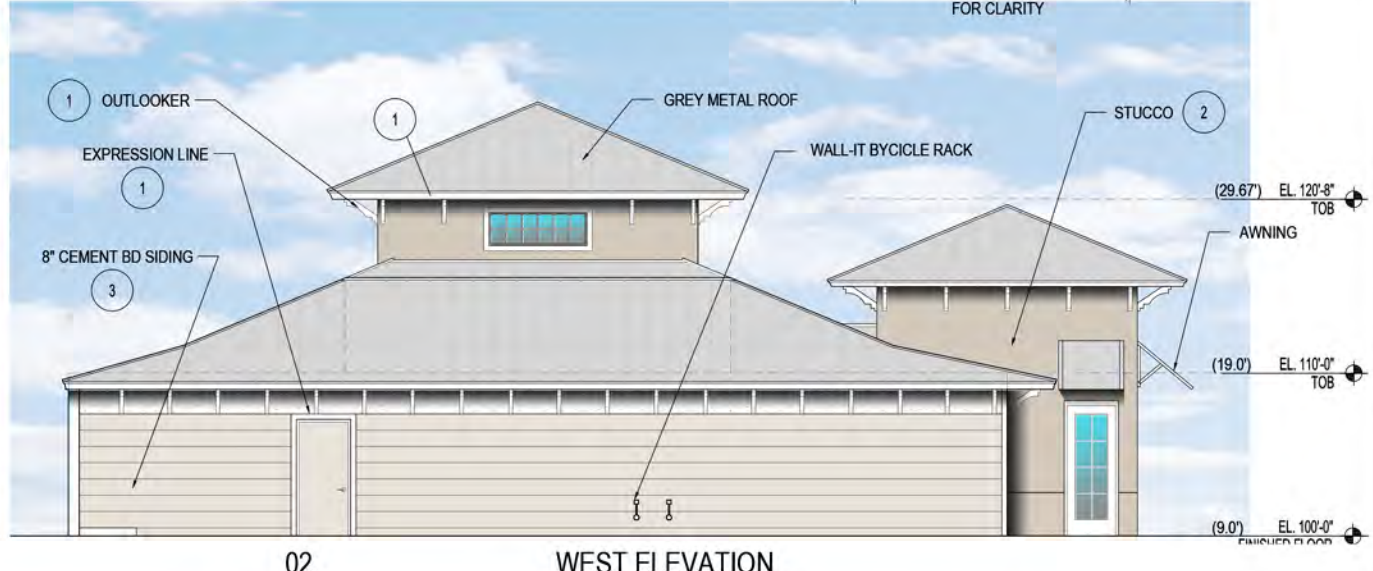
- ① SHERWIN WILLIAMS SW 7004 SNOWBOUND
- ② SHERWIN WILLIAMS SW 6078 REALIST BEIGE
- ③ SHERWIN WILLIAMS SW 6077 EVERYDAY WHITE



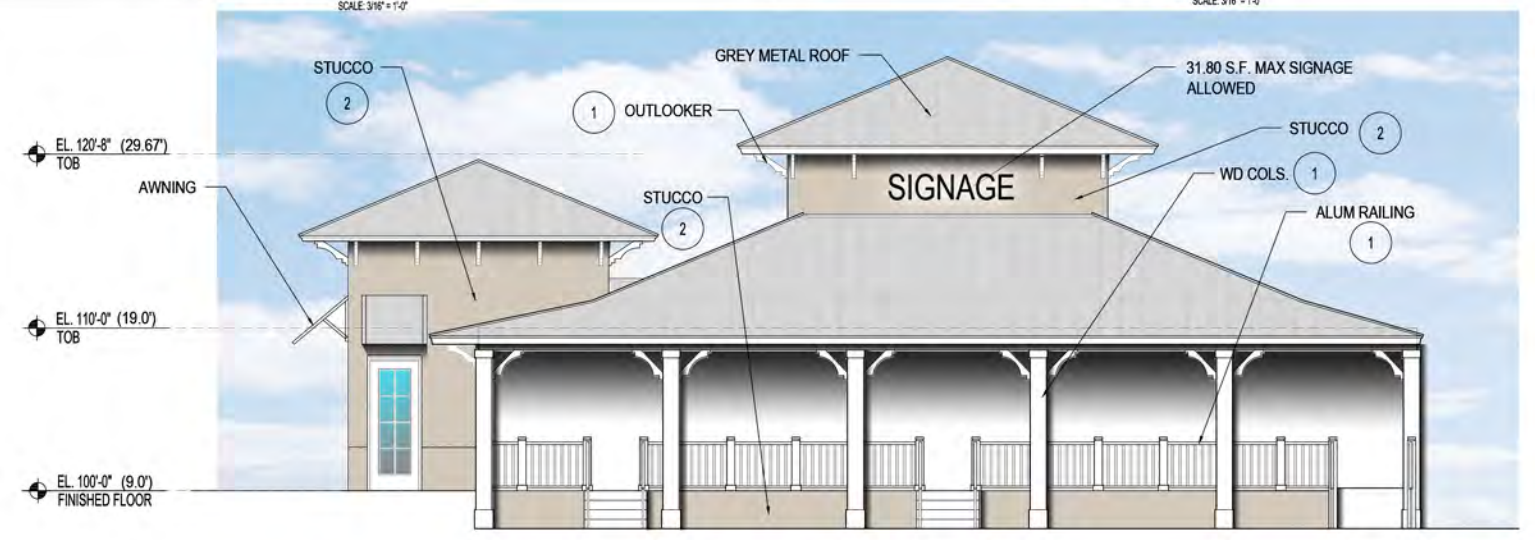
01 SOUTH ELEVATION
SCALE: 3/16" = 1'-0"



03 NORTH ELEVATION
SCALE: 3/16" = 1'-0"



02 WEST ELEVATION
SCALE: 3/16" = 1'-0"



04 EAST ELEVATION
SCALE: 3/16" = 1'-0"

HARVARD•JOLLY
ARCHITECTURE

FL. Myers 239-275-7774
Jacksonville 904-396-3300
Orlando 407-667-7727
St. Petersburg 727-498-4611
Tampa 813-286-9209
West Palm Beach 561-478-4457
A/C 0000119
DESIGN OFFICE LOCATION: 2047 VISTA PARKWAY, STE. 100, WEST PALM BEACH, FL. 33411, PH. 561.478.4457

NEW RESTAURANT
CRAB POT SITE
386 EAST BLUE HERON BLVD.
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Revised:	
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René Tercilla AIA, REFP

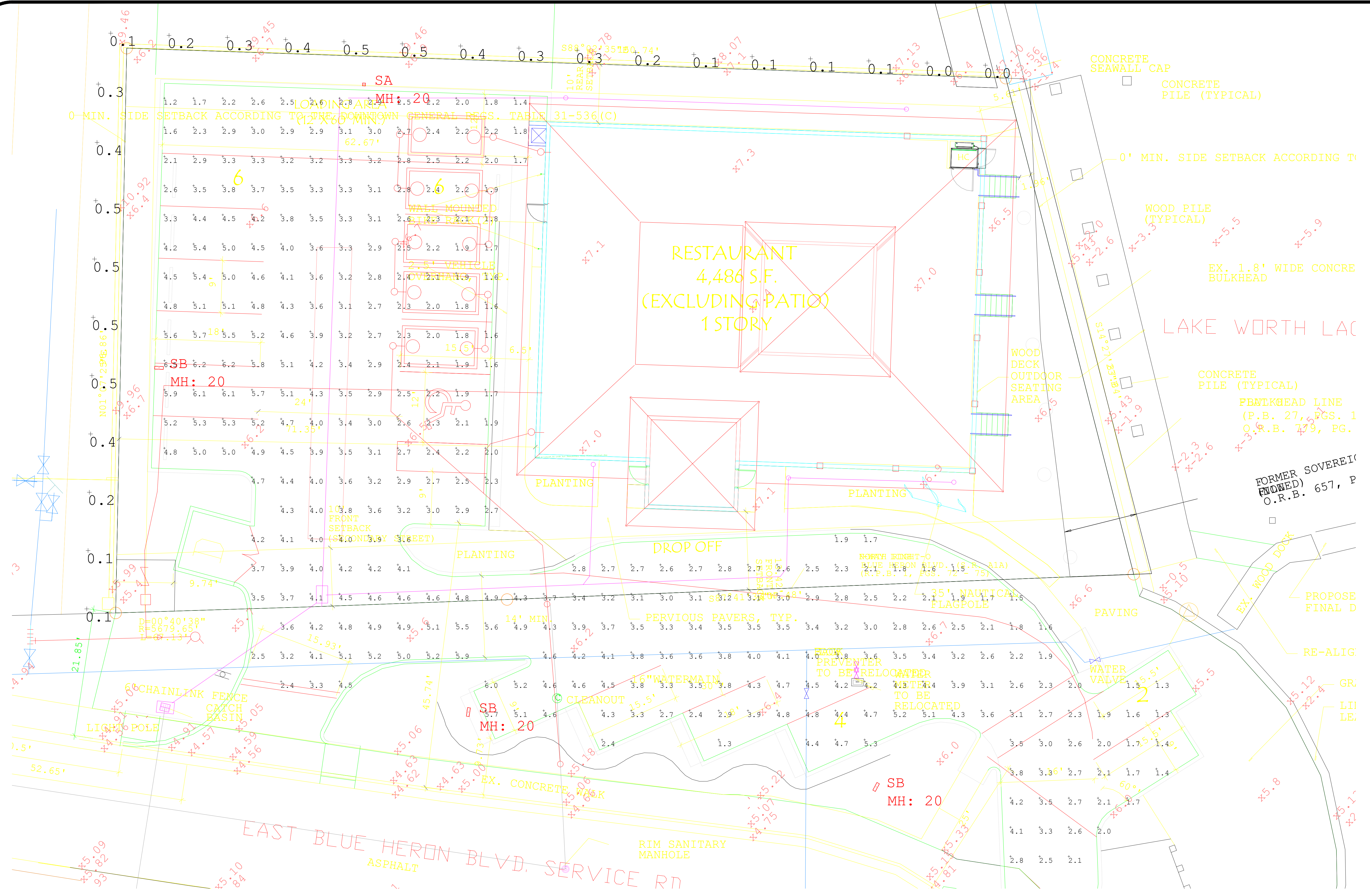
C1.1







Lighting Dynamics Incorporated

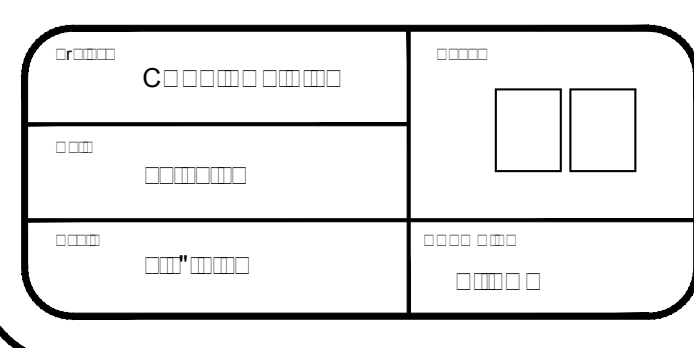


Luminaire Schedule						
Label	Symbol	Arrangement	Qty	Description	LLF	Lum. Lumens
SA	□	SINGLE	1	LUMARK#: NAV-AF-01-D-UNV-SL4-1200-HSS	0.900	5460
SB	•	SINGLE	3	LUMARK#: NAV-AF-03-D-UNV-SL4-1200-HSS	0.900	16188

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
EAST PROPERTY LINE	Illuminance	Fc	0.23	0.5	0.0	N.A.	N.A.
NORTH PROPERTY LINE	Illuminance	Fc	0.35	0.5	0.1	3.50	5.00
PARKING AND ACCESS AREA	Illuminance	Fc	3.37	6.5	1.2	2.81	5.42

Lighting Dynamics Incorporated
 11000 West Colonial Blvd.
 Dallas, TX 75241
 www.lightingdynamics.com

Site Lighting Photo Metric Layout
 Interior Exterior



DESCRIPTION

The Navion™ area, site and roadway LED luminaire combines world class optical performance, energy efficiency, and outstanding versatility to meet the requirements of any area, site or roadway lighting application. Patented AccuLED Optic™ technology delivers unparalleled uniformity. Heavy-duty construction and easy installation features make the Navion luminaire the right choice for site lighting applications and municipal streets. UL/cUL listed for wet locations, optional IP66 enclosure rating available.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Construction

Heavy-duty, cast aluminum housing and door with extruded aluminum heat sink. Tool-less entry, hinged removable power tray door for easy maintenance. 3G vibration rated.

Optics

Choice of 16 patented, high-efficiency AccuLED Optics. The optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 3000K, 5000K and 6000K CCT. For the ultimate level of spill light control, an optional house side shield accessory is available and can be field or factory installed. The house side shield is designed to seamlessly integrate with the SL2, SL3, SL4 or AFL optics.

Electrical

LED drivers are mounted to the removable die-cast aluminum door for optimal heat sinking and ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. 10kV common and differential-mode surge protection standard. 0-10V dimming driver standard. Thermal management incorporates both conduction and convection to transfer heat rapidly away from the LED source for optimal efficiency and light output. Suitable for ambient temperatures from -40°C to 40°C. Optional 50°C HA option available. Greater than 90% lumen maintenance expected at 60,000 hours. Light squares are IP66 enclosure rated. Available in standard 1A drive current and optional 600mA, 800mA and 1200mA drive currents (nominal).

Mounting

Four-bolt/two-bracket slipfitter with cast-in pipe stop and built-in incremental 2.5° leveling steps are standard. Fixed-in-place bird guard seals around 1-1/4" or 2" mounting arms.

Finish

Housing and cast parts finished in five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Heat sink is anodized aluminum. Consult your lighting representative at Eaton for a complete selection of standard colors.

Warranty

Five-year warranty.



NAV NAVION

1-6 Light Squares
LED

AREA / SITE / ROADWAY
LUMINAIRE



CERTIFICATION DATA

UL/cUL Wet Location Listed
ISO 9001
IP66 Light Squares
3G Vibration Rated
DesignLights Consortium™ Qualified*

ENERGY DATA

Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120-277V 50/60 Hz,
347V 60 Hz, 480V 60 Hz
-40°C Minimum Temperature
+40°C Ambient Temperature Rating

EPA

Effective Projected Area (Sq. Ft.):

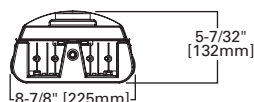
- (Fixture only)
1 Square 0.8
2 Square's 1.0
3 Square's 1.2
4 Square's 1.2
6 Square's 1.4
(Fixture with AI arm)
1 Square 1.2
2 Square's 1.3
3 Square's 1.5
4 Square's 1.5
6 Square's 1.7

SHIPPING DATA

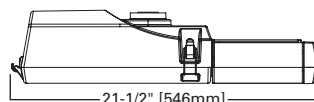
Approximate Net Weight:
1 Square 17 lbs. (7.7 kgs.)
2 Square's 22 lbs. (10.0 kgs.)
3 Square's 26 lbs. (11.8 kgs.)
4 Square's 31 lbs. (14.1 kgs.)
6 Square's 36 lbs. (16.3 kgs.)

DIMENSIONS

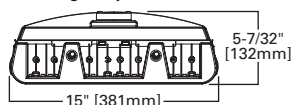
1, 2 or 3 Light Squares



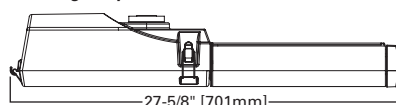
1 Light Square



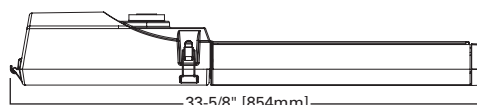
4 or 6 Light Squares



2 or 4 Light Squares

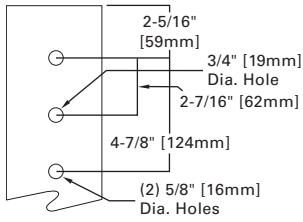


3 or 6 Light Squares



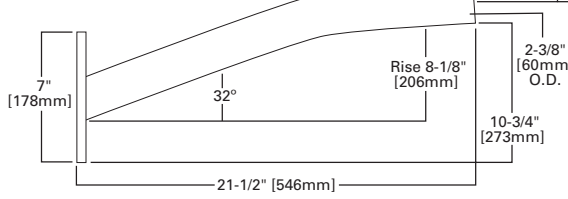
ARM DRILLING

TYPE "M"



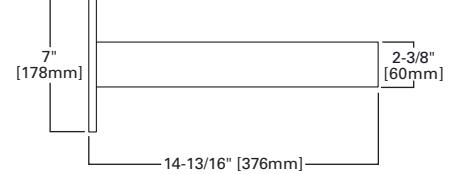
OPTIONAL ARM

Upsweep Arm

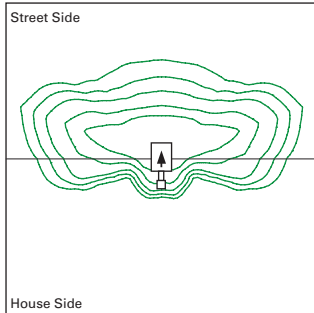


OPTIONAL ARM

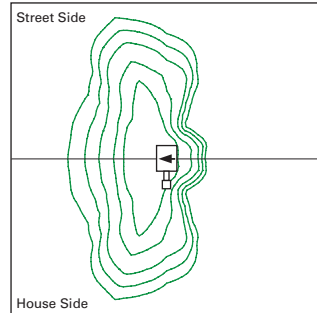
15" Straight Arm



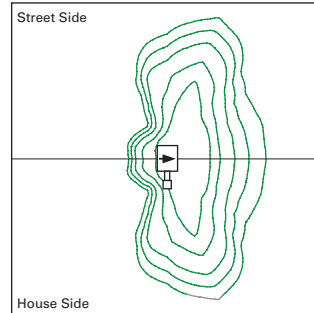
OPTIC ORIENTATION



Standard



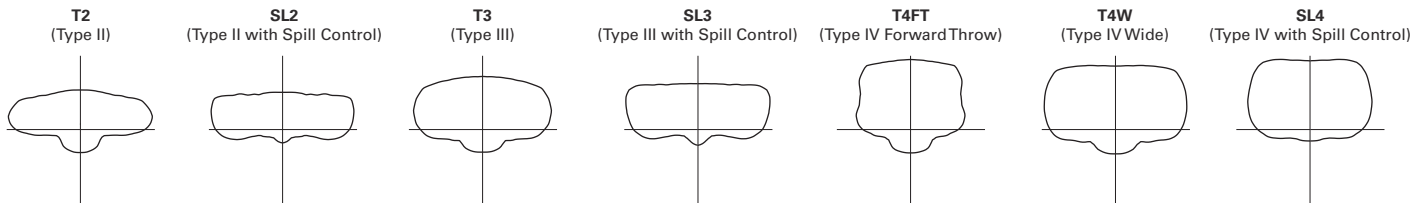
Optics Rotated Left @ 90° (L90)



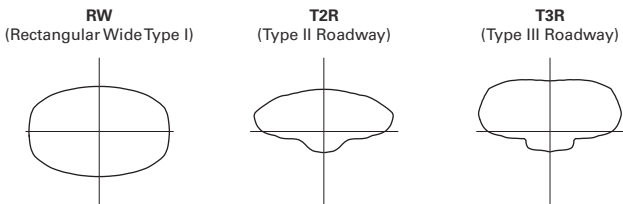
Optics Rotated Right @ 90° (R90)

OPTICAL DISTRIBUTIONS

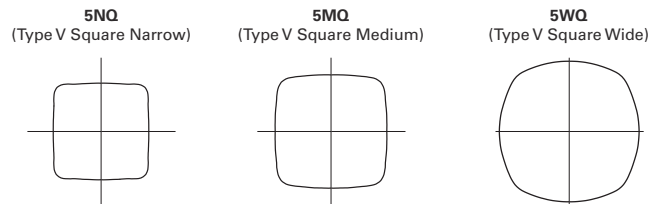
Asymmetric Area Distributions



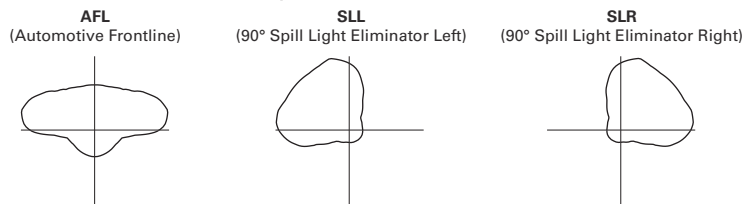
Asymmetric Roadway Distributions



Symmetric Distributions



Specialized Distributions



CONTROL OPTIONS

0-10V (DIM)

This fixture is offered standard with 0-10V dimming driver(s). The DIM option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

Photocontrol (PER and PER7)

Photocontrol receptacles (PER and PER7) provide a flexible solution to enable “dusk-to-dawn” lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PER7 receptacle.

After Hours Dim (AHD)

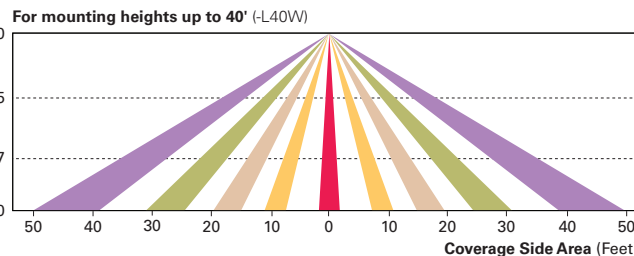
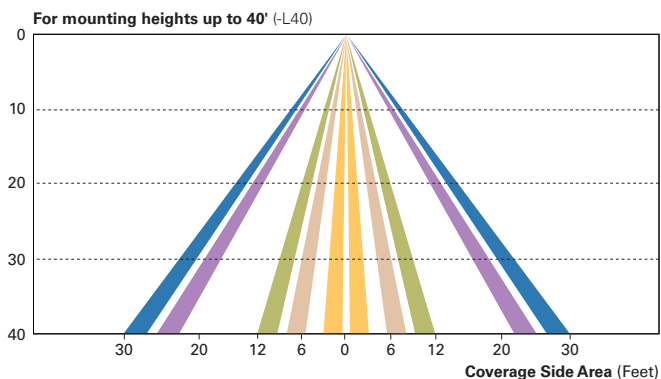
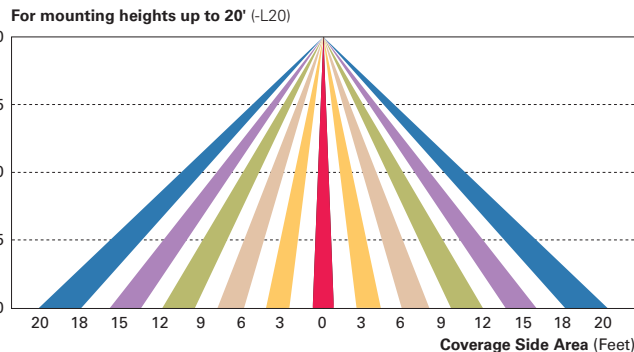
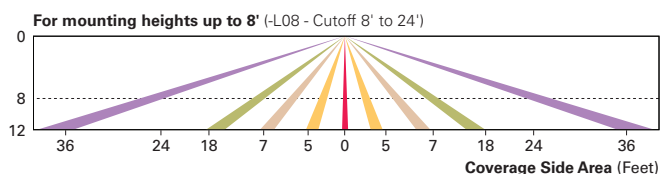
This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a “dusk-to-dawn” period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

Dimming Occupancy Sensor (MS/DIM-LXX, MS/X-LXX and MS-LXX)

These sensors are factory installed in the luminaire housing. When the MS/DIM-LXX sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. The MS-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity. The MS/X-LXX is also preset for five minutes and only controls the specified number of light engines to maintain steady output from the remaining light engines.

These occupancy sensors includes an integral photocell that can be activated with the FSIR-100 accessory for “dusk-to-dawn” control or daylight harvesting -- the factory preset is OFF. The FSIR-100 is a wireless tool utilized for changing the dimming level, time delay, sensitivity and other parameters.

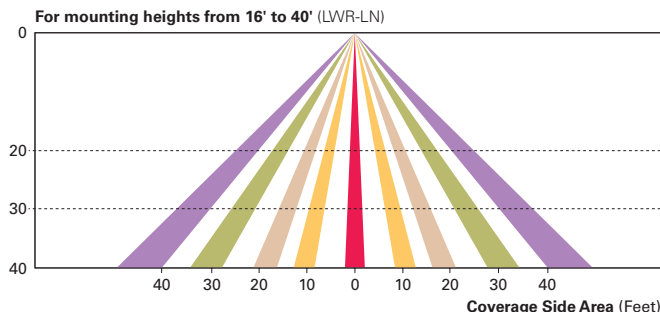
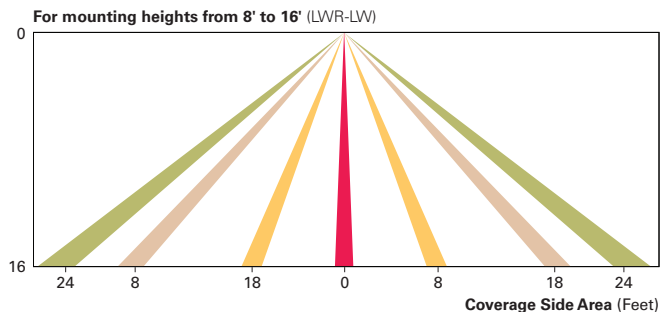
A variety of sensor lens are available to optimize the coverage pattern for mounting heights from 8’-40’.



LumaWatt Wireless Control and Monitoring System (LWR-LW and LWR-LN)

The LumaWatt system is a peer-to-peer wireless network of luminaire-integral sensors for any sized project. Each sensor is capable of motion and photo sensing, metering power consumption and wireless communication. The end-user can securely create and manage sensor profiles with browser-based management software. The software will automatically broadcast to the sensors via wireless gateways for zone-based and individual luminaire control. The LumaWatt software provides smart building solutions by utilizing the sensor to provide easy-to-use dashboard and analytic capabilities such as improved energy savings, traffic flow analysis, building management software integration and more.

For additional details, refer to the LumaWatt product guides.



LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

LUMEN MAINTENANCE

Drive Current	Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Projected L70 (Hours)
Up to 1A	Up to 50°C	> 95%	416,000
1.2A	Up to 40°C	> 90%	205,000

ORDERING INFORMATION

Sample Number: NAV-AF-01-D-UNV-T3-10K-AI-AP

Product Family ^{1,2}	Light Engine	Number of Light Squares ³	Driver	Voltage	Distribution	Surge Protection
NAV=Navion	AF	01=1 02=2 03=3 04=4 06=6	D=Dimming	UNV=Universal (120-277V) 347=347V ⁴ 480=480V ⁵	T2=Type II T2R=Type II Roadway T3=Type III T3R=Type III Roadway T4FT=Type IV Forward Throw T4W=Type IV Wide 5NQ=Type V Narrow 5MQ=Type V Square Medium 5WQ=Type V Square Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLL=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I AFL=Automotive Front Line	10K=Cooper 10kV Surge Module (Standard) X=Driver Surge Protection Only ⁶
Options (Add as Suffix)						Color
2L=Two Circuits ⁷ 8030=80 CRI / 3000K ⁸ 7030=70 CRI / 3000K ⁸ 7060=70 CRI / 6000K ⁸ 7050=70 CRI / 5000K ⁸ 600=Drive Current Factory Set to 600mA ⁹ 800=Drive Current Factory Set to 800mA ⁹ 1200=Drive Current Factory Set to 1200mA ⁹ PER=NEMA Twistlock Photocontrol Receptacle PER7=7-PIN NEMA Twistlock Photocontrol Receptacle ¹⁰ IP66=IP66 Rated HA=50°C High Ambient ¹¹ L90=Optics Rotated 90° Left R90=Optics Rotated 90° Right CE=CE Marking ¹²			MS/DIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height ¹³ MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height ¹³ MS/DIM-L40=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height ¹³ MS/X-L08=Bi-Level Motion Sensor, Maximum 8' Mounting Height ¹⁴ MS/X-L20=Bi-Level Motion Sensor, 9' - 20' Mounting Height ¹⁴ MS/X-L40=Bi-Level Motion Sensor, 21' - 40' Mounting Height ¹⁴ K=Level Indicator AI=Arm Included ¹⁵ A15=Arm Included (15" Straight Arm) ¹⁶ LCF=Light Square Trim Plate Painted to Match Housing HSS=Factory Installed House Side Shield ¹⁷ DIMRF-LW=LumaWatt Wireless Sensor, Wide Lens for 8' - 16' Mounting Height ¹⁸ DIMRF-LN=LumaWatt Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height ¹⁸ AHD145=After Hours Dim, 5 Hours ¹⁹ AHD245=After Hours Dim, 6 Hours ¹⁹ AHD255=After Hours Dim, 7 Hours ¹⁹ AHD355=After Hours Dim, 8 Hours ¹⁹			AP=Grey (Standard) BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White
Accessories (Order Separately)						
OA1223=10kV Surge Module Replacement OA/RA1013=Photocontrol Shorting Cap OA/RA1014=NEMA Photocontrol - 120V OA/RA1016=NEMA Photocontrol - Multi-Tap OA/RA1027=NEMA Photocontrol - 480V OA/RA1201=NEMA Photocontrol - 347V MA1010-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon			MA1011-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon MA1012-XX=3@120° Tenon Adapter for 3-1/2" O.D. Tenon MA1013-XX=4@90° Tenon Adapter for 3-1/2" O.D. Tenon MA1014-XX=2@90° Tenon Adapter for 3-1/2" O.D. Tenon MA1015-XX=2@120° Tenon Adapter for 3-1/2" O.D. Tenon MA1016-XX=3@90° Tenon Adapter for 3-1/2" O.D. Tenon MA1017-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon		MA1018-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon MA1019-XX=3@120° Tenon Adapter for 2-3/8" O.D. Tenon MA1045-XX=4@90° Tenon Adapter for 2-3/8" O.D. Tenon MA1048-XX=2@90° Tenon Adapter for 2-3/8" O.D. Tenon MA1049-XX=3@90° Tenon Adapter for 2-3/8" O.D. Tenon FSIR-100=Wireless Configuration Tool for Motion Sensor ²⁰ LS/HSS=Field Installed House Side Shield ²¹ A15=15" Straight Arm ²²	

- NOTES:
- DesignLights Consortium™ Qualified and classified for both DLC Standard and DLC Premium, refer to www.designlights.org for details.
 - Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information.
 - Standard 1A drive current. Standard 4000K CCT and minimum 70 CRI.
 - Requires the use of an internal step down transformer when combined with sensor options. Not available with sensor at 1200mA. Not available in combination with the HA high ambient and sensor options at 1A.
 - Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
 - Consult factory for driver surge protection values.
 - Low-level output varies by number of light squares specified. Consult factory. 2L is not available with MS/X, MS/DIM, DIMRF-LW or DIMRF-LN in combination with 347V or 480V. 2L is available in 4 and 6 light square configurations. No terminal block with 2L options.
 - Use dedicated IES files for 3000K, 5000K and 6000K when performing layouts. These files are published on the Navion luminaire product page on the website. Extended lead times apply.
 - 1 Amp standard. Use dedicated IES files for 600mA, 800mA and 1200mA when performing layouts. These files are published on the Navion luminaire product page on the website.
 - Only available with dimming driver.
 - Not available with 1200mA.
 - CE is not available with the 1200mA, DIMRF, MS, MS/X, MS/DIM, PER or PER7 options. Available in 120-277V only.
 - Sensor mounted externally. Must specify dimming driver. Consult factory for more information.
 - Sensor mounted externally. Available in 4 or 6 light square configurations. Replace "X" with number of squares in low output mode. For ON/OFF operation, replace "X" with "0". Maximum two squares in low output mode. Not available with dimming driver. No terminal block with ON/OFF sensor.
 - 22" upsweep arm. Round pole adapter and mounting hardware included, "M" drill pattern.
 - Round pole adapter and mounting hardware included, "M" drill pattern.
 - Only for use with SL2, SL3, SL4 and AFL distributions. The light square trim plate is painted black when the HSS option is selected.
 - LumaWatt wireless sensors are factory installed only requiring network components RF-EM-1, RF-GW-1 and RF-REUT-1 in appropriate quantities. See www.eaton.com/lighting for LumaWatt application information. Not available with PER, PER7, or 2L options.
 - Requires the use of PER or PER7 photocontrol receptacle with photocontrol accessory. See After Hours Dim supplemental guide for additional information.
 - This tool enables adjustment of parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information.
 - One required for each light square.
 - Replace XX with paint color.

DESCRIPTION

The Navion™ area, site and roadway LED luminaire combines world class optical performance, energy efficiency, and outstanding versatility to meet the requirements of any area, site or roadway lighting application. Patented AccuLED Optic™ technology delivers unparalleled uniformity. Heavy-duty construction and easy installation features make the Navion luminaire the right choice for site lighting applications and municipal streets. UL/cUL listed for wet locations, optional IP66 enclosure rating available.

Catalog #	NAV-AF-03-D-UNV-SL4-1200-HSS-BZ/MA-1017-BZ	Type	SB
Project	CRAB POT	Date	
Comments		Prepared by	

SPECIFICATION FEATURES

Construction

Heavy-duty, cast aluminum housing and door with extruded aluminum heat sink. Tool-less entry, hinged removable power tray door for easy maintenance. 3G vibration rated.

Optics

Choice of 16 patented, high-efficiency AccuLED Optics. The optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 3000K, 5000K and 6000K CCT. For the ultimate level of spill light control, an optional house side shield accessory is available and can be field or factory installed. The house side shield is designed to seamlessly integrate with the SL2, SL3, SL4 or AFL optics.

Electrical

LED drivers are mounted to the removable die-cast aluminum door for optimal heat sinking and ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. 10kV common and differential-mode surge protection standard. 0-10V dimming driver standard. Thermal management incorporates both conduction and convection to transfer heat rapidly away from the LED source for optimal efficiency and light output. Suitable for ambient temperatures from -40°C to 40°C. Optional 50°C HA option available. Greater than 90% lumen maintenance expected at 60,000 hours. Light squares are IP66 enclosure rated. Available in standard 1A drive current and optional 600mA, 800mA and 1200mA drive currents (nominal).

Mounting

Four-bolt/two-bracket slipfitter with cast-in pipe stop and built-in incremental 2.5° leveling steps are standard. Fixed-in-place bird guard seals around 1-1/4" or 2" mounting arms.

Finish

Housing and cast parts finished in five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Heat sink is anodized aluminum. Consult your lighting representative at Eaton for a complete selection of standard colors.

Warranty

Five-year warranty.



NAV NAVION

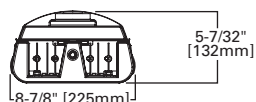
1-6 Light Squares
LED

AREA / SITE / ROADWAY
LUMINAIRE

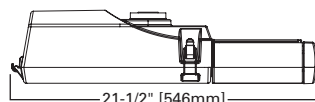


DIMENSIONS

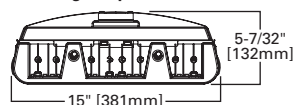
1, 2 or 3 Light Squares



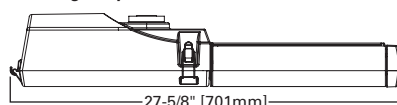
1 Light Square



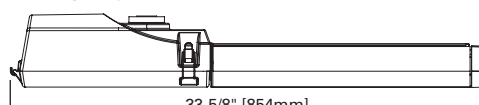
4 or 6 Light Squares



2 or 4 Light Squares



3 or 6 Light Squares



CERTIFICATION DATA

UL/cUL Wet Location Listed
ISO 9001
IP66 Light Squares
3G Vibration Rated
DesignLights Consortium™ Qualified*

ENERGY DATA

Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120-277V 50/60 Hz,
347V 60 Hz, 480V 60 Hz
-40°C Minimum Temperature
+40°C Ambient Temperature Rating

EPA

Effective Projected Area (Sq. Ft.):

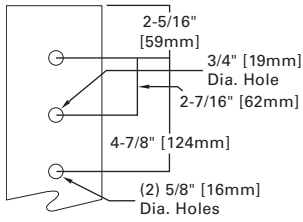
- (Fixture only)
1 Square 0.8
2 Square's 1.0
3 Square's 1.2
4 Square's 1.2
6 Square's 1.4
(Fixture with AI arm)
1 Square 1.2
2 Square's 1.3
3 Square's 1.5
4 Square's 1.5
6 Square's 1.7

SHIPPING DATA

Approximate Net Weight:
1 Square 17 lbs. (7.7 kgs.)
2 Square's 22 lbs. (10.0 kgs.)
3 Square's 26 lbs. (11.8 kgs.)
4 Square's 31 lbs. (14.1 kgs.)
6 Square's 36 lbs. (16.3 kgs.)

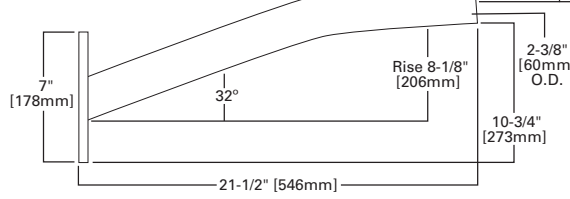
ARM DRILLING

TYPE "M"



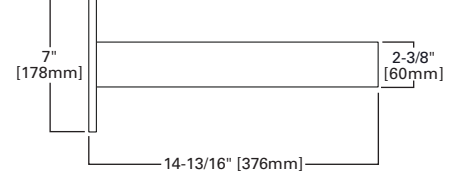
OPTIONAL ARM

Upsweep Arm

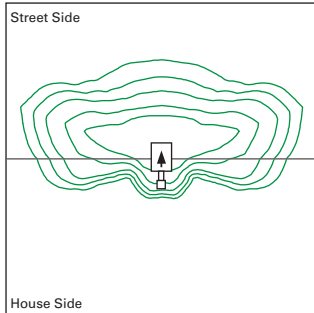


OPTIONAL ARM

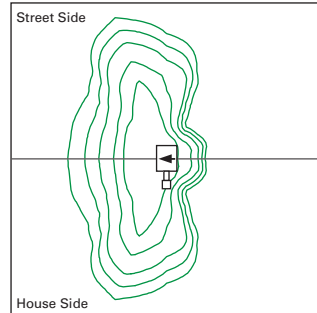
15" Straight Arm



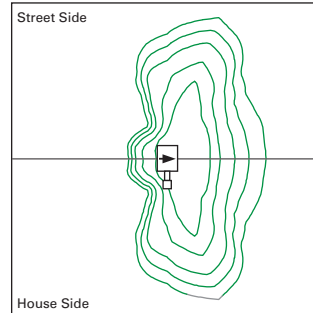
OPTIC ORIENTATION



Standard



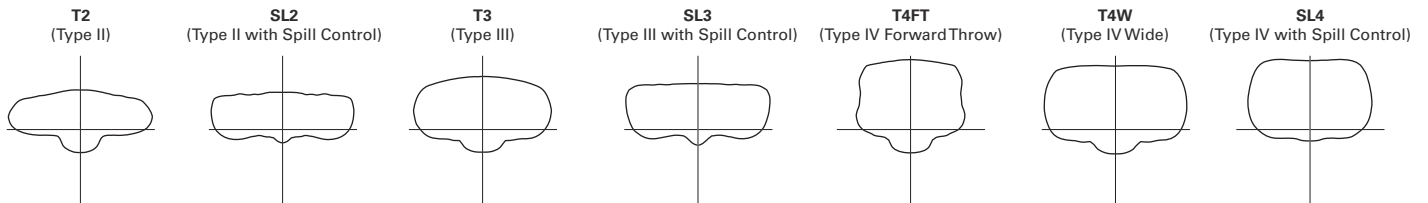
Optics Rotated Left @ 90° (L90)



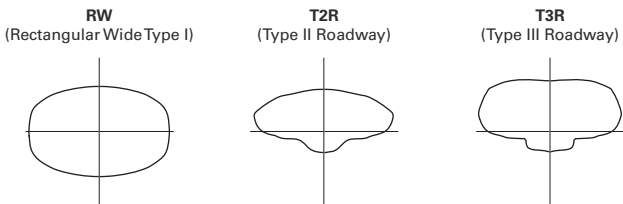
Optics Rotated Right @ 90° (R90)

OPTICAL DISTRIBUTIONS

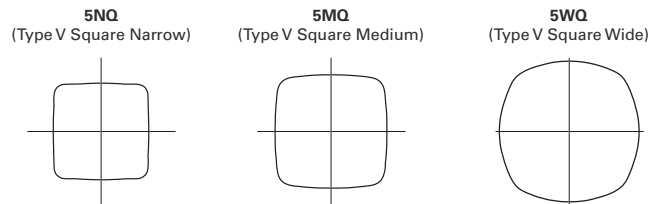
Asymmetric Area Distributions



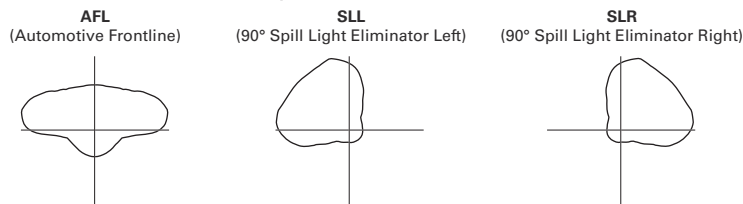
Asymmetric Roadway Distributions



Symmetric Distributions



Specialized Distributions



CONTROL OPTIONS

0-10V (DIM)

This fixture is offered standard with 0-10V dimming driver(s). The DIM option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

Photocontrol (PER and PER7)

Photocontrol receptacles (PER and PER7) provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PER7 receptacle.

After Hours Dim (AHD)

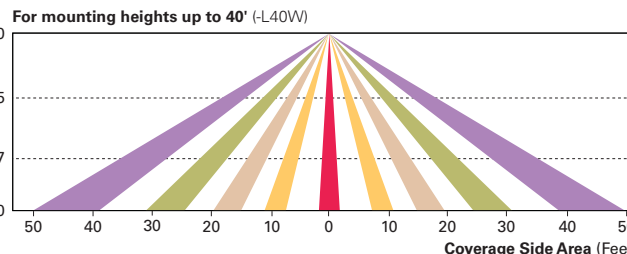
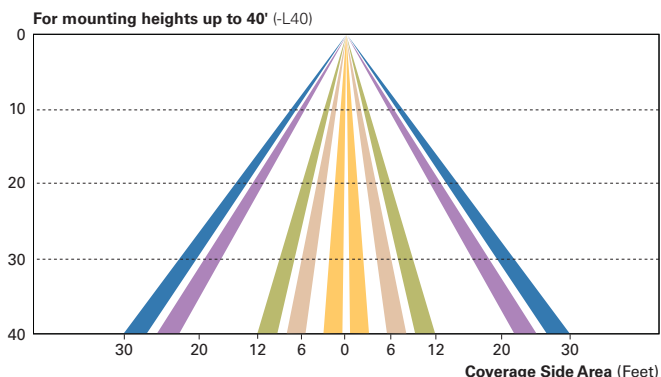
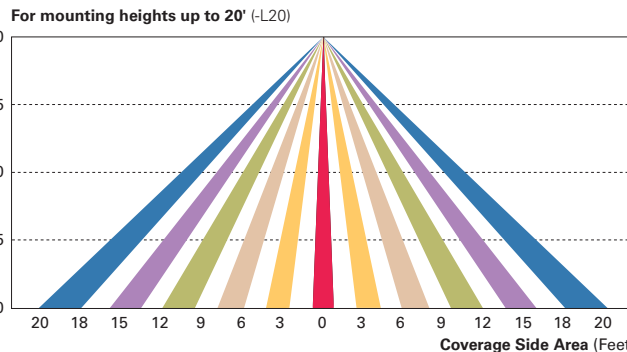
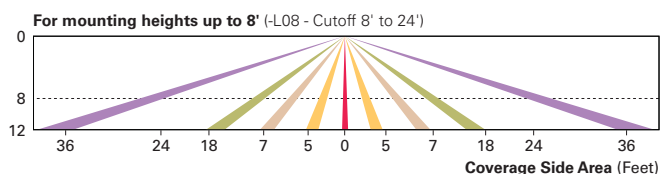
This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a "dusk-to-dawn" period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

Dimming Occupancy Sensor (MS/DIM-LXX, MS/X-LXX and MS-LXX)

These sensors are factory installed in the luminaire housing. When the MS/DIM-LXX sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. The MS-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity. The MS/X-LXX is also preset for five minutes and only controls the specified number of light engines to maintain steady output from the remaining light engines.

These occupancy sensors includes an integral photocell that can be activated with the FSIR-100 accessory for "dusk-to-dawn" control or daylight harvesting -- the factory preset is OFF. The FSIR-100 is a wireless tool utilized for changing the dimming level, time delay, sensitivity and other parameters.

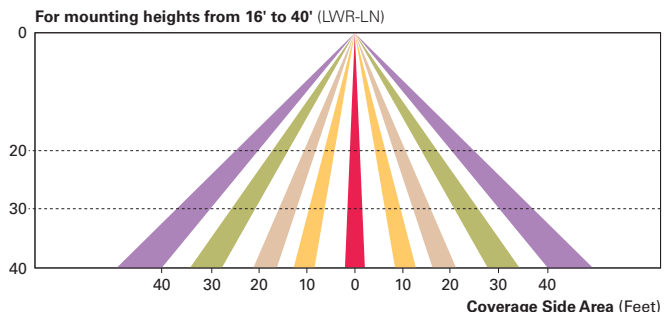
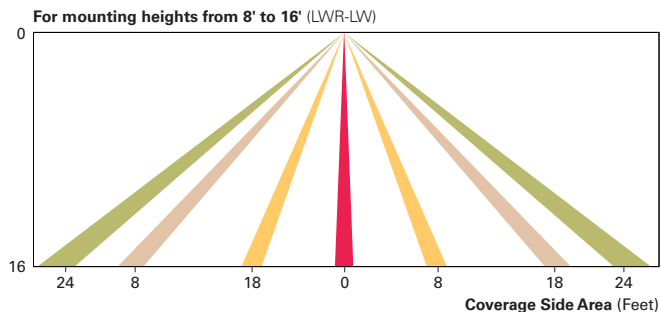
A variety of sensor lens are available to optimize the coverage pattern for mounting heights from 8'-40'.



LumaWatt Wireless Control and Monitoring System (LWR-LW and LWR-LN)

The LumaWatt system is a peer-to-peer wireless network of luminaire-integral sensors for any sized project. Each sensor is capable of motion and photo sensing, metering power consumption and wireless communication. The end-user can securely create and manage sensor profiles with browser-based management software. The software will automatically broadcast to the sensors via wireless gateways for zone-based and individual luminaire control. The LumaWatt software provides smart building solutions by utilizing the sensor to provide easy-to-use dashboard and analytic capabilities such as improved energy savings, traffic flow analysis, building management software integration and more.

For additional details, refer to the LumaWatt product guides.



LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

LUMEN MAINTENANCE

Drive Current	Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Projected L70 (Hours)
Up to 1A	Up to 50°C	> 95%	416,000
1.2A	Up to 40°C	> 90%	205,000

ORDERING INFORMATION

Sample Number: NAV-AF-01-D-UNV-T3-10K-AI-AP

Product Family ^{1,2}	Light Engine	Number of Light Squares ³	Driver	Voltage	Distribution	Surge Protection
NAV=Navion	AF	01=1 02=2 03=3 04=4 06=6	D=Dimming	UNV=Universal (120-277V) 347=347V ⁴ 480=480V ⁵	T2=Type II T2R=Type II Roadway T3=Type III T3R=Type III Roadway T4FT=Type IV Forward Throw T4W=Type IV Wide 5NQ=Type V Narrow 5MQ=Type V Square Medium 5WQ=Type V Square Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLL=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I AFL=Automotive Front Line	10K=Cooper 10kV Surge Module (Standard) X=Driver Surge Protection Only ⁶
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 - Use dedicated IES files for 3000K, 5000K and 6000K when performing layouts. These files are published on the Navion luminaire product page on the website. Extended lead times apply.
 - 1 Amp standard. Use dedicated IES files for 600mA, 800mA and 1200mA when performing layouts. These files are published on the Navion luminaire product page on the website.
 - Only available with dimming driver.
 - Not available with 1200mA.
 - CE is not available with the 1200mA, DIMRF, MS, MS/X, MS/DIM, PER or PER7 options. Available in 120-277V only.
 - Sensor mounted externally. Must specify dimming driver. Consult factory for more information.
 - Sensor mounted externally. Available in 4 or 6 light square configurations. Replace "X" with number of squares in low output mode. For ON/OFF operation, replace "X" with "0". Maximum two squares in low output mode. Not available with dimming driver. No terminal block with ON/OFF sensor.
 - 22" upsweep arm. Round pole adapter and mounting hardware included, "M" drill pattern.
 - Round pole adapter and mounting hardware included, "M" drill pattern.
 - Only for use with SL2, SL3, SL4 and AFL distributions. The light square trim plate is painted black when the HSS option is selected.
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 - Requires the use of PER or PER7 photocontrol receptacle with photocontrol accessory. See After Hours Dim supplemental guide for additional information.
 - This tool enables adjustment of parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information.
 - One required for each light square.
 - Replace XX with paint color.

Utilities Structures, Inc.

PO Box 9303 Ft Myers, Fl. 33901
 Ph. 1-800-798-7653 Fax. 1-941-332-7132
 "Your Prestressed Concrete Pole Producer"

USI27TI-86-56

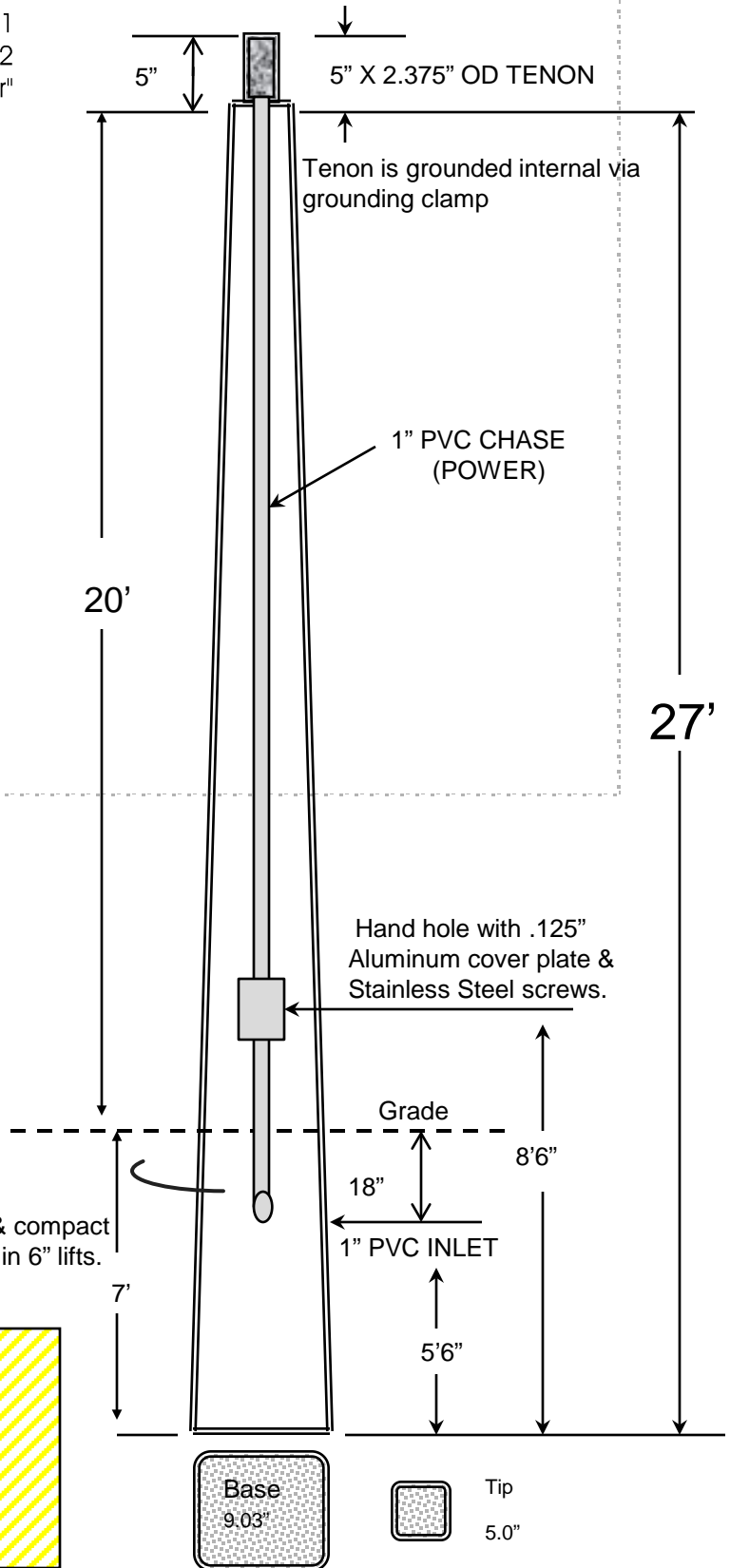
Prestressed Concrete Pole

- Pole Weight= 1,550lbs
- EPA capacity= 8.2
- Wind speed= 150 mph V ult
- Exposure "C"
- Risk Category II
- Gust Factor= 1.2
- 2010 FBC 1609 & 1819
- ASCE 7-10
- Min. Brk. Strength= 1,200#
- Concrete= 6,500lbs @ 28 days
- Grd. Wire= #6 copper
- Strand= 3/8" @ 70% Ultimate
- Tenon= 2.375" OD x 5" Hgt.
- Color= Natural concrete, Mold finish

Select Structural, LLC.

Shawn R. Anderson, P.E., S.E.

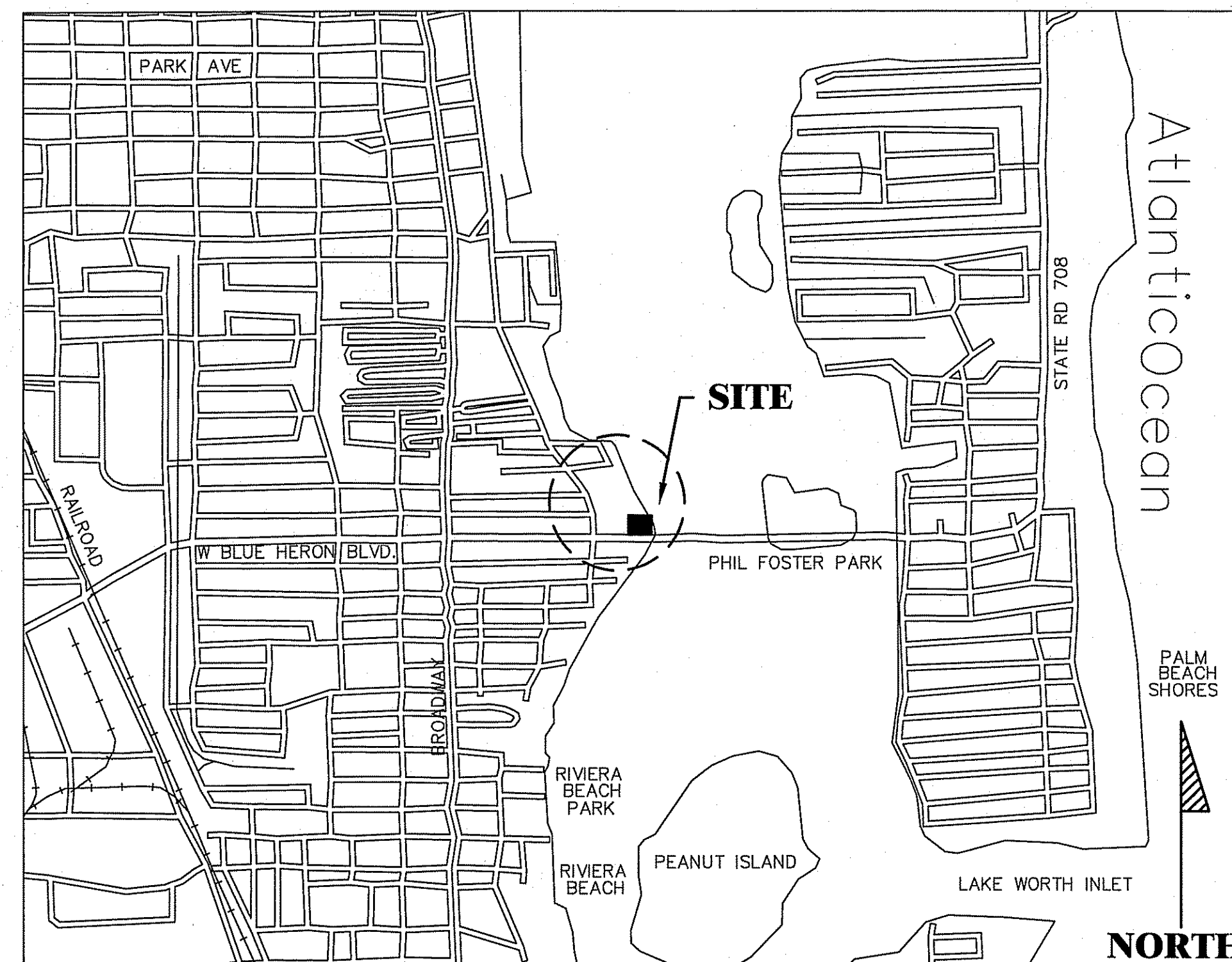
PROJECT: Crab Pot Restaurant



CRAB POT SITE PROPOSED RESTAURANT

LOCATED IN THE
CITY OF RIVIERA BEACH
(PALM BEACH COUNTY, FLORIDA)

WATER, SEWER, PAVING AND DRAINAGE CONSTRUCTION PLANS



LOCATION MAP

**SECTION 28, TOWNSHIP 42 SOUTH, RANGE 43 EAST
(PALM BEACH COUNTY, FLORIDA)**

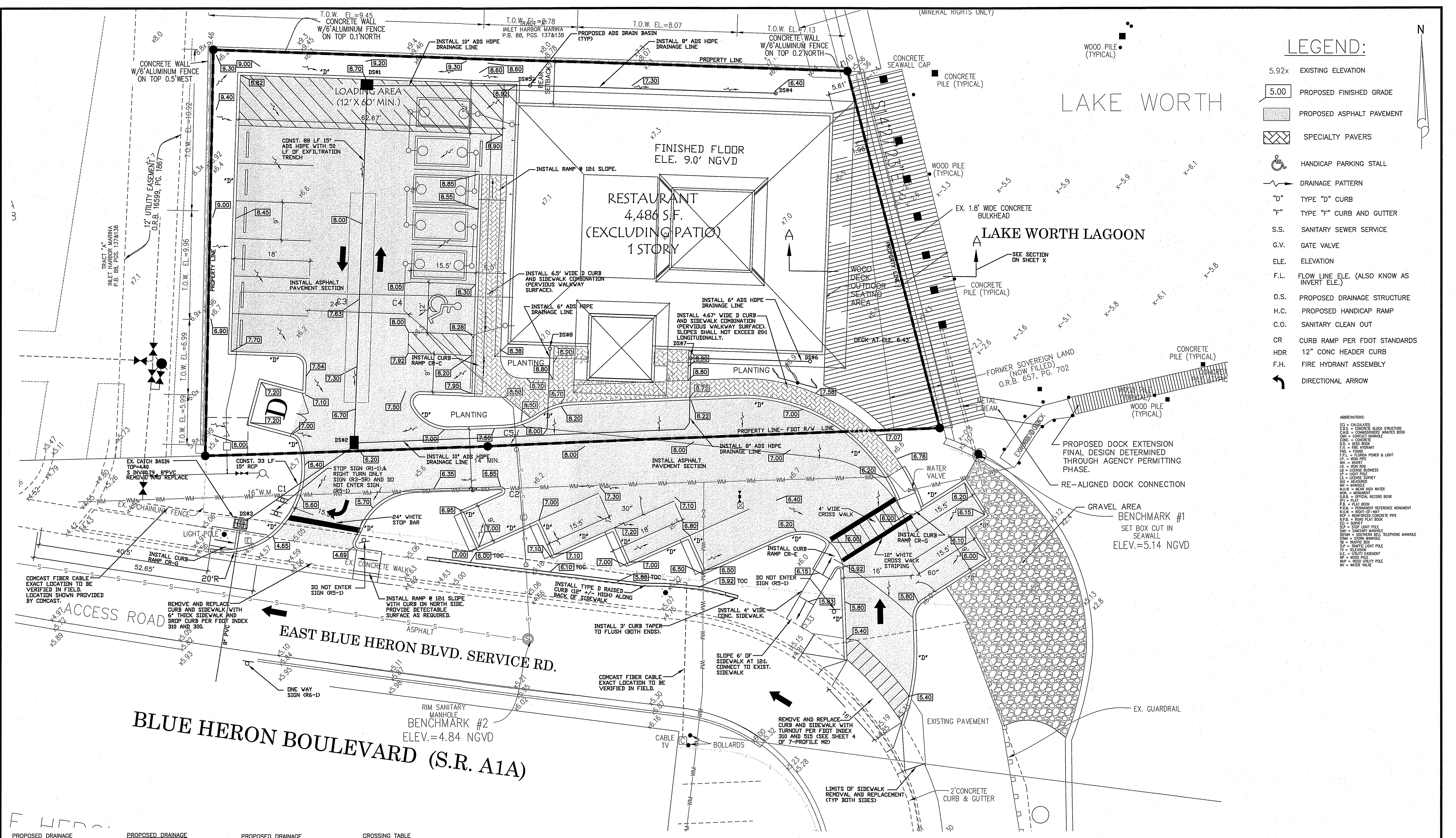
**PREPARED FOR:
SEVEN KINGS HOLDINGS, INC.
630 MAPLEWOOD DRIVE, SUITE 100
JUPITER, FLORIDA 33458
561-625-9443**

SEPTEMBER 2016

**PREPARED BY:
SOUTHERN DESIGN GROUP, INC.
609 NORTH HEPBURN AVENUE, SUITE 204
JUPITER, FLORIDA 33458
561-743-0501
EB# 5142**

INDEX OF SHEETS

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
1	COVER SHEET
2	PAVING & DRAINAGE PLAN
3	WATER AND SEWER PLAN
4-5	PAVING AND DRINAGE DETAILS
6-7	WATER AND SEWER DETAILS



- LEGEND:**
- 5.92x EXISTING ELEVATION
 - 5.00 PROPOSED FINISHED GRADE
 - PROPOSED ASPHALT PAVEMENT
 - SPECIALTY PAVERS
 - HANDICAP PARKING STALL
 - DRAINAGE PATTERN
 - "D" TYPE "D" CURB
 - "F" TYPE "F" CURB AND GUTTER
 - S.S. SANITARY SEWER SERVICE
 - G.V. GATE VALVE
 - ELE. ELEVATION
 - F.L. FLOW LINE ELE. (ALSO KNOW AS INVERT ELE.)
 - D.S. PROPOSED DRAINAGE STRUCTURE
 - H.C. PROPOSED HANDICAP RAMP
 - C.O. SANITARY CLEAN OUT
 - CR CURB RAMP PER FDOT STANDARDS
 - HDR 12" CONC HEADER CURB
 - F.H. FIRE HYDRANT ASSEMBLY
 - DIRECTIONAL ARROW

- ABBREVIATIONS:**
- (C) = CALCULATED
 - C.B.S. = CONCRETE BLOCK STRUCTURE
 - C.M.B. = COMMISSIONER'S MANUAL BOOK
 - C.M. = CONTRACT MANUAL
 - CONC. = CONCRETE
 - D.B. = DEEP BOOK
 - F.H. = FIRE HYDRANT
 - F.P. = FLOOR
 - F.P.L. = FLORIDA POWER & LIGHT
 - I.P. = IRON PIPE
 - IN. = INCH
 - IS. = IRON SIOB
 - LB. = LBS
 - LS. = LIGHT BUSINESS
 - LS. = LIGHT SURVEY
 - M. = MARCH
 - M. = MEASURED
 - M. = MARSH
 - M.H.W. = MEAN HIGH WATER
 - M.M. = MOMENT
 - M.R. = OFFICIAL RECORD BOOK
 - O.R.B. = OFFICIAL RECORD BOOK
 - P.B. = PLAT BOOK
 - P.M. = PERMANENT REFERENCE MONUMENT
 - R.O.W. = RIGHT-OF-WAY
 - R.P.P. = REINFORCED CONCRETE PIPE
 - R.P.B. = ROAD PLAT BOOK
 - S. = SURVEY
 - S.L.P. = STOP LIGHT POLE
 - S.M. = SANITARY MANHOLE
 - S.M.H. = SOUTHERN BELL TELEPHONE MANHOLE
 - T.B. = TRAFFIC BOX
 - T.P. = TRAFFIC LIGHT POLE
 - T.V. = TELEVISION
 - U.S. = UTILITY EASEMENT
 - W.P. = WOOD POLE
 - W.U. = WOOD UTILITY POLE
 - W.V. = WATER VALVE

PROPOSED DRAINAGE STRUCTURES

D.S. #1 (TYPE C INLET) GRATE ELE. = 8.70 S. F.L. ELE. = 1.50 E. F.L. ELE. = 4.00 BOTTOM ELE. = (-) 0.50	D.S. #4 (ADS DRAIN BASIN) GRATE ELE. = 8.70 S. F.L. ELE. = 1.50 E. F.L. ELE. = 4.00 BOTTOM ELE. = (-) 0.50	D.S. #7 (ADS DRAIN BASIN) GRATE ELE. = 8.70 S. F.L. ELE. = 4.30 E. F.L. ELE. = 4.30	C1 TOP 16" WM = 0.93 (CONTRACTOR TO FIELD VERIFY) BOT 16" RCP = 1.93
D.S. #2 (TYPE C INLET) GRATE ELE. = 6.20 S.W. F.L. ELE. = 2.25 N. F.L. ELE. = 1.50 E. F.L. ELE. = 1.00 BOTTOM ELE. = (-) 0.50	D.S. #5 (ADS DRAIN BASIN) GRATE ELE. = 6.20 S.W. F.L. ELE. = 2.25 N. F.L. ELE. = 1.50 E. F.L. ELE. = 1.00 BOTTOM ELE. = (-) 0.50	D.S. #8 (ADS DRAIN BASIN) GRATE ELE. = 8.70 S. F.L. ELE. = 4.30	C2 TOP 16" WM = 0.93 (CONTRACTOR TO FIELD VERIFY) BOT 6" S.S. = 2.50 +/-
D.S. #3 (TYPE C INLET) GRATE ELE. = 5.00 S. F.L. ELE. = 0.79 (EXISTING 8") N.E. F.L. ELE. = 2.25 BOTTOM ELE. = 0.00	D.S. #6 (ADS DRAIN BASIN) GRATE ELE. = 7.50 +/- W. F.L. ELE. = 4.50		C3 TOP EXFILTRATION = 4.00 BOT 2" WS AND 6" FM = 4.50
			C4 TOP 6" S.S. = 4.00 (CONTRACTOR TO VERIFY) BOT 2" WS AND 6" FM = 4.50
			C5 TOP 10" DRAIN = 2.20 BOT 6" S.S. = 2.70 +/-

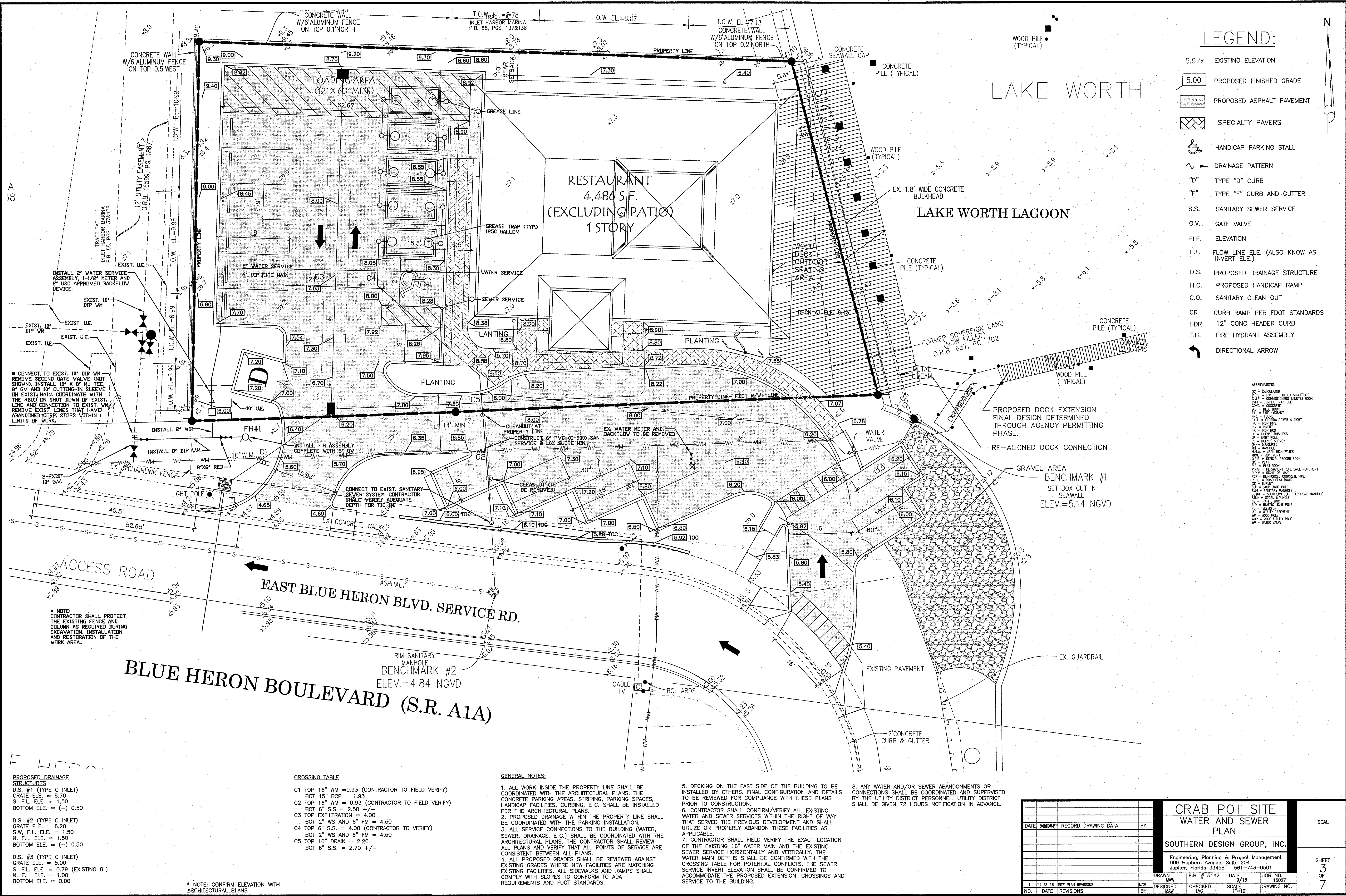
* NOTE: CONFIRM ELEVATION WITH ARCHITECTURAL PLANS

DATE: 11/23/16		RECORD DRAWING DATA		BY: M.W.		E.B. # 5142		DATE: 9/16		JOB NO. 15027		SHEET 2 OF 7
NO. 1		DATE: 11/23/16		REVISIONS		DESIGNED: M.W.		CHECKED: L.V.C.		SCALE: 1"=10'		

**CRAB POT SITE
PAVING AND DRAINAGE
PLAN**

SOUTHERN DESIGN GROUP, INC.

Engineering, Planning & Project Management
608 Hepburn Avenue, Suite 204
Jupiter, Florida 33458 561-743-0501



LEGEND:

- 5.92x EXISTING ELEVATION
- 5.00 PROPOSED FINISHED GRADE
- [Pattern] PROPOSED ASPHALT PAVEMENT
- [Pattern] SPECIALTY PAVERS
- [Symbol] HANDICAP PARKING STALL
- [Symbol] DRAINAGE PATTERN
- "D" TYPE "D" CURB
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- [Symbol] DIRECTIONAL ARROW

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 - C.B.S. = CONCRETE BLOCK STRUCTURE
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 - C.M.F. = CONCRETE MANSION
 - C.N.C. = CONCRETE
 - F.H. = FIRE HYDRANT
 - F.P. = FLOOR FINISH
 - F.P.C. = FLOOR POWDER & LIGHT
 - I.F. = IRON PIPE
 - W. = WOOD
 - R.P. = REBAR
 - R.S. = ROSTER
 - L.P. = LIGHT PIPE
 - U.S. = UTILITY SERVICE
 - W.M. = WATER MAIN
 - W.S. = WATER SERVICE
 - H.W. = HIGH WATER
 - H.F.W. = HIGHER HIGH WATER
 - M.H. = MANHOLE
 - O.R.B. = OFFICIAL RECORD BOOK
 - P.B. = PLAT BOOK
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 - R.O.W. = RIGHT-OF-WAY
 - R.P.P. = REINFORCED CONCRETE PIPE
 - R.P.B. = ROAD PLAT BOOK
 - S. = SURVEY
 - S.P. = STOP SIGN POLE
 - S.M. = SANITARY MAIN
 - S.M.H. = SANITARY MANHOLE
 - S.S. = SANITARY SERVICE
 - T.P. = TRAFFIC POLE
 - U.E. = UTILITY EASEMENT
 - W.P. = WOOD UTILITY POLE
 - W.V. = WATER VALVE



WOOD PILE (TYPICAL)

CONCRETE PILE (TYPICAL)

LAKE WORTH LAGOON

RESTAURANT
4,486 S.F. (EXCLUDING PATIO)
1 STORY

LOADING AREA
(12' X 60' MIN.)

CONCRETE WALL W/6" ALUMINUM FENCE ON TOP 0.1' NORTH

CONCRETE WALL W/6" ALUMINUM FENCE ON TOP 0.2' NORTH

CONCRETE SEAWALL CAP

CONCRETE WALL W/6" ALUMINUM FENCE ON TOP 0.5' WEST

PROPOSED DRAINAGE STRUCTURES

D.S. #1 (TYPE C INLET) GRATE ELE. = 8.70 S. F.L. ELE. = 1.50 BOTTOM ELE. = (-) 0.50	D.S. #2 (TYPE C INLET) GRATE ELE. = 6.20 S.W. F.L. ELE. = 1.50 N. F.L. ELE. = 1.50 BOTTOM ELE. = (-) 0.50	D.S. #3 (TYPE C INLET) GRATE ELE. = 5.00 S. F.L. ELE. = 0.79 (EXISTING 8") N. F.L. ELE. = 1.00 BOTTOM ELE. = 0.00
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* NOTE: CONFIRM ELEVATION WITH ARCHITECTURAL PLANS

CROSSING TABLE

C1 TOP 16" WM = 0.93 (CONTRACTOR TO FIELD VERIFY) BOT 15" RCP = 1.93	C2 TOP 16" WM = 0.93 (CONTRACTOR TO FIELD VERIFY) BOT 6" S.S. = 2.50 +/-	C3 TOP EXFILTRATION = 4.00 BOT 2" WS AND 6" FM = 4.50	C4 TOP 6" S.S. = 4.00 (CONTRACTOR TO VERIFY) BOT 2" WS AND 6" FM = 4.50	C5 TOP 10" DRAIN = 2.20 BOT 6" S.S. = 2.70 +/-
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- GENERAL NOTES:**
- ALL WORK INSIDE THE PROPERTY LINE SHALL BE COORDINATED WITH THE ARCHITECTURAL PLANS, THE CONCRETE PARKING AREAS, STRIPING, PARKING SPACES, HANDICAP FACILITIES, CURBING, ETC. SHALL BE INSTALLED PER THE ARCHITECTURAL PLANS.
 - PROPOSED DRAINAGE WITHIN THE PROPERTY LINE SHALL BE COORDINATED WITH THE PARKING INSTALLATION.
 - ALL SERVICE CONNECTIONS TO THE BUILDING (WATER, SEWER, DRAINAGE, ETC.) SHALL BE COORDINATED WITH THE ARCHITECTURAL PLANS. THE CONTRACTOR SHALL REVIEW ALL PLANS AND VERIFY THAT ALL POINTS OF SERVICE ARE CONSISTENT BETWEEN ALL PLANS.
 - ALL PROPOSED GRADES SHALL BE REVIEWED AGAINST EXISTING GRADES WHERE NEW FACILITIES ARE MATCHING EXISTING FACILITIES. ALL SIDEWALKS AND RAMPS SHALL COMPLY WITH SLOPES TO CONFORM TO ADA REQUIREMENTS AND FDOT STANDARDS.

5. DECKING ON THE EAST SIDE OF THE BUILDING TO BE INSTALLED BY OTHERS. FINAL CONFIGURATION AND DETAILS TO BE REVIEWED FOR COMPLIANCE WITH THESE PLANS PRIOR TO CONSTRUCTION.
6. CONTRACTOR SHALL COMPLY WITH ALL EXISTING WATER AND SEWER SERVICES WITHIN THE RIGHT OF WAY THAT SERVED THE PREVIOUS DEVELOPMENT AND SHALL UTILIZE OR PROPERLY ABANDON THESE FACILITIES AS APPLICABLE.
7. CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION OF THE EXISTING 16" WATER MAIN AND THE EXISTING SEWER SERVICE HORIZONTALLY AND VERTICALLY. THE WATER MAIN DEPTHS SHALL BE CONFIRMED WITH THE CROSSING TABLE FOR POTENTIAL CONFLICTS. THE SEWER SERVICE INVERT ELEVATION SHALL BE CONFIRMED TO ACCOMMODATE THE PROPOSED EXTENSION, CROSSINGS AND SERVICE TO THE BUILDING.
8. ANY WATER AND/OR SEWER ABANDONMENTS OR CONNECTIONS SHALL BE COORDINATED AND SUPERVISED BY THE UTILITY DISTRICT PERSONNEL. UTILITY DISTRICT SHALL BE GIVEN 72 HOURS NOTIFICATION IN ADVANCE.

CRAB POT SITE			
WATER AND SEWER PLAN			
SOUTHERN DESIGN GROUP, INC.			
Engineering, Planning & Project Management 808 Hepburn Avenue, Suite 204 Jupiter, Florida 33458 561-743-0501			
DRAWN BY: MAW	DESIGNED BY: MAW	E.B. # 5142	DATE: 9/16
			JOB NO.: 15027
			SCALE: 1"=10'
11 23 16	DATE	REVISIONS	DRAWING NO.
NO.	DATE	REVISIONS	

SEAL
SHEET 3 OF 7

GENERAL NOTES AND SPECIFICATIONS

CLEARING SHALL BE LIMITED TO CONSTRUCTION AREA AND/OR AS DIRECTED BY OWNER OR HIS REPRESENTATIVE. GRUBBING OF ALL STUMPS, ROOTS, BURIED LOGS OR OTHER OBJECTIONABLE MATERIALS SHALL BE TO A DEPTH OF 18 INCHES BELOW NATURAL GROUND. ALL DEBRIS SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF.

OWNER AND CONTRACTOR SHALL COORDINATE TO PROVIDE CONSTRUCTION SURVEY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING BUILDINGS, STRUCTURES, AND UTILITIES THAT ARE UNDER GROUND, ABOVE GROUND, OR ON THE SURFACE AGAINST CONSTRUCTION OPERATIONS THAT MAY BE HAZARDOUS TO SAID FACILITIES AND SHALL HOLD AND SAVE THE OWNER, HIS AGENTS AND/OR CONSULTANTS HARMLESS AGAINST ALL CLAIMS OR DAMAGE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED TESTS AND SHALL SUBMIT REPORTS FOR REVIEW AND APPROVAL. THE TESTS SHALL BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY. PAYMENT FOR TESTING PER CONTRACT WITH OWNER. ANY RETEST FOR FAILURE WILL BE AT THE CONTRACTOR'S EXPENSE.

ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER AND SHALL CONFORM WITH ALL APPLICABLE LOCAL, REGIONAL, STATE AND FEDERAL REGULATIONS AND/OR CODES. THE CONTRACTOR OR SUBCONTRACTORS SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO PROCEEDING WITH CONSTRUCTION. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FEDERAL, STATE, COUNTY AND, IF APPLICABLE, LOCAL MUNICIPAL REGULATIONS. THE LATEST EDITION OF FLORIDA DOT SPECIFICATIONS, DETAILS AND ADDENDA SHALL GOVERN AS APPLICABLE TO THE TYPE OF CONSTRUCTION.

PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL VISUALLY EXAMINE THE SITE OF CONSTRUCTION TO DETERMINE THE AMOUNT OF CLEARING AND EXISTING FACILITIES TO BE PROTECTED, REPLACED, REMOVED AND/OR RELOCATED WHICH MAY BE REQUIRED TO COMMENCE WORK. ALL CONTRACTOR'S SHALL PROTECT EXISTING IMPROVEMENTS THAT ARE CONTIGUOUS TO THE CONSTRUCTION AREA.

THE CONTRACTOR SHALL COORDINATE PROJECT CONSTRUCTION AND GIVE ADEQUATE NOTIFICATION TO ALL AFFECTED UTILITY OWNERS (IE: WATER AND SEWER UTILITY, FP&L, SO. BELL, CABLE, ETC.) WITH REGARD TO THE NEED FOR REMOVAL, RELOCATION OR ALTERATION OF THEIR EXISTING FACILITIES. UTILITY COMPANIES SHALL BE NOTIFIED 48 HOURS PRIOR TO COMMENCING CONSTRUCTION. CALL SUNSHINE-UTILITY NOTIFICATION CENTER- FOR LOCATION BEFORE EXCAVATION (1-800-432-4770).

THE CONTRACTOR SHALL ALSO COORDINATE AND NOTIFY APPLICABLE UTILITY AGENCY PERSONNEL AND ENGINEER FOR REQUIRED INSPECTIONS (MIN. 48 HR. NOTICE), AND SHALL SUPPLY ANY AND ALL EQUIPMENT NECESSARY TO PROPERLY TEST OR INSPECT THE WORK.

GUARANTY-ALL MATERIAL AND EQUIPMENT TO BE FURNISHED OR INSTALLED BY THE CONTRACTOR(S) UNDER THE CONSTRUCTION CONTRACT FOR THIS PROJECT SHALL BE GUARANTEED AGAINST DEFECTIVE MATERIALS, AND WORKMANSHIP. UPON RECEIPT OF NOTICE FROM THE OWNER OF FAILURE OF ANY PART OF THE INSTALLATION, GUARANTEED EQUIPMENT OR MATERIALS, DURING THE GUARANTY PERIOD, THE AFFECTED PART, PARTS OR MATERIALS SHALL BE REPLACED PROMPTLY WITH THE NEW PARTS OR MATERIALS BY THE CONTRACTOR, AT NO EXPENSE TO THE OWNER. IN THE EVENT THE CONTRACTOR FAILS TO MAKE THE NECESSARY REPLACEMENT OR REPAIRS WITHIN SEVEN DAYS AFTER NOTIFICATION BY THE OWNER, THE OWNER MAY ACCOMPLISH THE WORK AT THE EXPENSE OF THE CONTRACTOR.

ALL WORK SHALL BE ACCOMPLISHED IN A SAFE WORKMANLIKE MANNER. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS AND REGULATIONS OF ANY PUBLIC BODY HAVING JURISDICTION FOR THE SAFETY OF PERSONS OR PROPERTY OR TO PROTECT THEM FROM DAMAGE, INJURY OR LOSS; AND SHALL ERECT AND MAINTAIN ALL NECESSARY SAFEGUARDS FOR SUCH SAFETY AND PROTECTION. THE RESPONSIBILITY FOR PROJECT SAFETY RESTS SOLELY AND SPECIFICALLY WITH THE CONTRACTOR. SOUTHERN DESIGN GROUP, INC., THE OWNER, THE REGULATORY AGENCIES AND THEIR EMPLOYEES ARE SPECIFICALLY INDEMNIFIED AND HELD HARMLESS FROM ANY ACTIONS OF THE CONTRACTOR RELATING TO THE SAFETY PROCEDURES IMPLEMENTED DURING CONSTRUCTION AND FOR ANY CLAIMS BROUGHT BY ANY PERSONS REGARDING SAFETY, PERSONAL INJURY OR PROPERTY DAMAGE.

CONTRACTOR SHALL COORDINATE WITH OWNER AND ALL OTHER CONTRACTORS TO ENSURE PROPER CONSTRUCTION SEQUENCE OF PROJECT. THE SEQUENCE OF CONSTRUCTION SHALL BE SUCH THAT ALL UNDERGROUND UTILITIES SHALL BE INSTALLED PRIOR TO PAVEMENT CONSTRUCTION AND OTHER ABOVE GROUND IMPROVEMENTS.

ELEVATIONS- ALL ELEVATIONS REFER TO N.G.V.D.

RECORD DRAWINGS-THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN AND SUBMIT TO ENGINEER A COMPLETE DETAILED SET OF RECORD DRAWING DATA PREPARED BY A REGISTERED FLORIDA SURVEYOR. THE RECORD DRAWINGS SHALL ADHERE TO ANY AND ALL SPECIFIC CRITERIA OF THE WATER AND SEWER UTILITY AND ANY SPECIFICS REQUIRED BY THE ENGINEER.

UNDERGROUND CONTRACTOR SHALL SUBMIT ALL RECORD DATA TO THE ENGINEER FOR HIS REVIEW AND APPROVAL PRIOR TO PAVEMENT AND/OR CURB INSTALLATION. ANY NECESSARY ADJUSTMENT AT THIS TIME WILL BE THE RESPONSIBILITY OF THE UNDERGROUND CONTRACTOR.

FINAL ADJUSTMENT OF MANHOLE RIMS, VALVE BOXES, ETC. THAT ARE WITHIN ANY PAVED AREA, SHALL BE ADJUSTED AT THE TIME THE BASE MATERIAL IS IN PLACE, AND SHALL BE THE RESPONSIBILITY OF THE UNDERGROUND CONTRACTOR.

PAVING CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES. ANY DAMAGE TO THESE STRUCTURES BY THE PAVING CONTRACTOR SHALL BE THE PAVING CONTRACTOR'S RESPONSIBILITY TO COORDINATE REPAIR.

MATERIALS AND CONSTRUCTION:

ALL CONCRETE SHALL DEVELOP A 28 DAY MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI UNLESS OTHERWISE NOTED. CLASS I CONCRETE SHALL CONFORM WITH THE FLORIDA DOT SPECIFICATIONS, LATEST EDITION.

ALL STEEL SHALL BE DOMESTIC GRADE 60 (FY=60 KSI) AND CONFORM TO ASTM A-615 SPECIFICATIONS.

ALL MASONRY UNITS AND GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 1800 PSI AND SHALL MEET ALL NCMA SPECIFICATIONS AND RECOMMENDATIONS.

ALL STEEL SPLICES, CONSTRUCTION AND PLACEMENT, AND ALL STEEL TIES SHALL CONFORM TO NCMA AND ACI PRACTICES AND RECOMMENDATIONS.

IF MUCK IS ENCOUNTERED IN THE ROAD RIGHT-OF-WAY OR ANY OTHER PAVED OR BUILDING AREAS, IT SHALL BE COMPLETELY REMOVED AND SHALL BE BACKFILLED WITH CLEAN, GRANULAR MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF A REGISTERED FLORIDA SOILS ENGINEER.

IF HARDPAN IS ENCOUNTERED IN ROAD SIDE SWALES OR ANY AREA DESIGNATED FOR DRAINAGE, IT SHALL BE REMOVED TO A WIDTH OF 2 FEET AT THE SWALE INVERT, OR 5' OUTSIDE OF DRAINAGE AREA, AND SHALL BE COMPLETELY REPLACED WITH GRANULAR MATERIAL.

CONTRACTOR SHALL BE RESPONSIBLE TO PERFORM ALL EXCAVATION IN ACCORDANCE WITH THE DEPARTMENT OF LABOR - OCCUPATIONAL SAFETY AND HEALTH STANDARDS EXCAVATION: FINAL RULE (29 CFR PART 1926) FORM FEDERAL REGULATIONS TUESDAY OCTOBER 31, 1991 AND OSHA 2226 (REV. 1990) EXCAVATION AND TRENCHING STANDARDS.

SUBGRADE-SUBGRADE SHALL BE COMPACTED TO MEET THE DENSITY REQUIREMENTS AS DETERMINED BY THE AASHTO T-180 SPECIFICATIONS. SUBGRADE SHALL EXTEND A MINIMUM OF 12 INCHES BEYOND THE PROPOSED EDGE OF PAVEMENT AND THE ENTIRE DEPTH SHALL BE COMPACTED TO 98% OF MAXIMUM DENSITY. ALL STUMPS, ROOTS OR OTHER DELETERIOUS MATTER ENCOUNTERED IN THE PREPARATION OF THE SUBGRADE SHALL BE REMOVED TO A DEPTH OF 3 FEET BELOW THE FINISHED ROAD GRADE. ALL SUCH MATERIAL/MATTER SHALL BE REMOVED WITHIN 8 FEET OF THE EDGE OF PAVEMENT. THE SUBGRADE SHALL BE COMPACTED AND STABILIZED AS SHOWN IN THE DETAILS WITH BEARING AND DENSITY DETERMINATIONS TO BE MADE BY THE APPLICABLE LATEST FLORIDA DOT SPECIFICATIONS.

BASE - BASE MATERIAL SHALL BE COMPACTED TO NOT LESS THAN 98% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 SPECIFICATIONS AND AS CALLED FOR IN THE FLORIDA DOT SPECIFICATIONS, LATEST EDITION-SECTION 250. BASE GREATER THAN 6" SHALL BE CONSTRUCTED IN TWO EVEN LIFTS OR 4" INTERVALS AND 6" BEYOND THE EDGE OF PAVEMENT.

PRIME COAT - BITUMINOUS PRIME COAT SHALL CONFORM WITH THE REQUIREMENTS OF THE FLORIDA DOT SPECIFICATIONS, LATEST EDITION-SECTION 300, AND SHALL BE APPLIED AT A RATE OF 0.25 GALLONS PER SQUARE YARD UNLESS OTHERWISE NOTED.

TACK COAT - BITUMINOUS TACK COAT SHALL CONFORM WITH THE REQUIREMENTS OF THE FLORIDA DOT SPECIFICATIONS, LATEST EDITION-SECTION 330 AND SHALL BE APPLIED AT THE MINIMUM RATE OF 0.08 GALLONS PER SQUARE YARD UNLESS OTHERWISE NOTED.

SURFACE COURSE - ASPHALTIC CONCRETE SURFACE COURSE SHALL CONFORM WITH THE REQUIREMENTS OF THE FLORIDA DOT SPECIFICATIONS, LATEST EDITION SECTION 331. THE MINIMUM COMPACTED THICKNESS IS AS NOTED IN PLANS.

INLETS SHALL BE THE TYPE DESIGNATED ON THE PLANS AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH FLORIDA DOT SPECIFICATIONS, LATEST EDITION-SECTION 425, UNLESS OTHERWISE NOTED IN THE PLANS.

CORRUGATED ALUMINUM PIPE (CAP (H)) SHALL BE SMOOTH WALL (INTERIOR) AND CONFORM WITH THE FLORIDA DOT SPECIFICATIONS, LATEST EDITION-SECTION 945. PIPE SHALL BE HELICAL OR HIGH FLOW HAVING THE THE HYDRAULIC EQUIVALENT OF CONCRETE PIPE. PIPE SIZES ARE AS SHOWN IN THE PLANS. ALL JOINTS IN STORM SEWER PIPE SHALL BE MADE WITH EITHER 1/2 INCH NEOPRENE OR 1/4 INCH STRIP SEALANT GASKET MATERIAL. ALL BANDS SHALL BE 12 INCHES WIDE. THE PIPE SHALL CONFORM WITH FLORIDA DOT SPECIFICATIONS, LATEST EDITION. CORRUGATED ALUMINUM PIPE SHALL NOT BE CONSTRUCTED UNDER PAVED AREAS, UNLESS OTHERWISE NOTED IN THE PLANS.

REINFORCED CONCRETE PIPE (RCP) SHALL CONFORM WITH THE REQUIREMENTS OF TABLE III OF ASTM C-76 AND WITH THE FLORIDA DOT SPECIFICATIONS, LATEST EDITION-SECTION 941. REQUIREMENTS FOR PIPE BACKFILL SHALL BE AS DEFINED BY FLORIDA DOT SPECIFICATIONS, LATEST EDITION SECTION 125-8. PIPELINE BACKFILL SHALL BE PLACED AND TESTED IN 6 INCH LIFTS AND COMPACTED TO 100% OF THE STANDARD PROCTOR (AASHTO T-99 SPECIFICATIONS).

ALL PIPE JOINTS SHALL BE WRAPPED WITH FILTER FABRIC JACKET IN ACCORDANCE WITH FOOT INDEX 280.

ALL STREET PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH MUTCD.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND REGULATIONS. TRAFFIC CONTROL SHALL ALSO BE IN ACCORDANCE WITH FLORIDA DOT INDEX 600.

IF WITHIN PALM BEACH COUNTY JURISDICTION, PAVEMENT MARKINGS AND SIGNAGE SHALL BE IN ACCORDANCE WITH THE MUTCD FOR STREETS AND HIGHWAYS AND PALM BEACH COUNTY TYPICAL NO. T-P-13. ALL STRIPING IN THE PARKING AREAS AND SITE SHALL CONFORM TO APPLICABLE LOCAL OR COUNTY CODES.

UTILITY CONDUITS/IRRIGATION CONDUITS SHALL BE PLACED PER OWNER'S DIRECTIONS AND CLEARLY MARKED AFTER CONSTRUCTION. CONTRACTOR SHALL OBTAIN RECORD DRAWING DATA ON ALL CROSSING.

PRE-CONSTRUCTION CONFERENCE:

A PRECONSTRUCTION CONFERENCE WITH THE OWNER, ENGINEER, CONTRACTORS AND ANY INVOLVED PARTIES WILL BE SCHEDULED BY THE PRIME CONTRACTOR PRIOR TO THE INITIATION OF CONSTRUCTION.

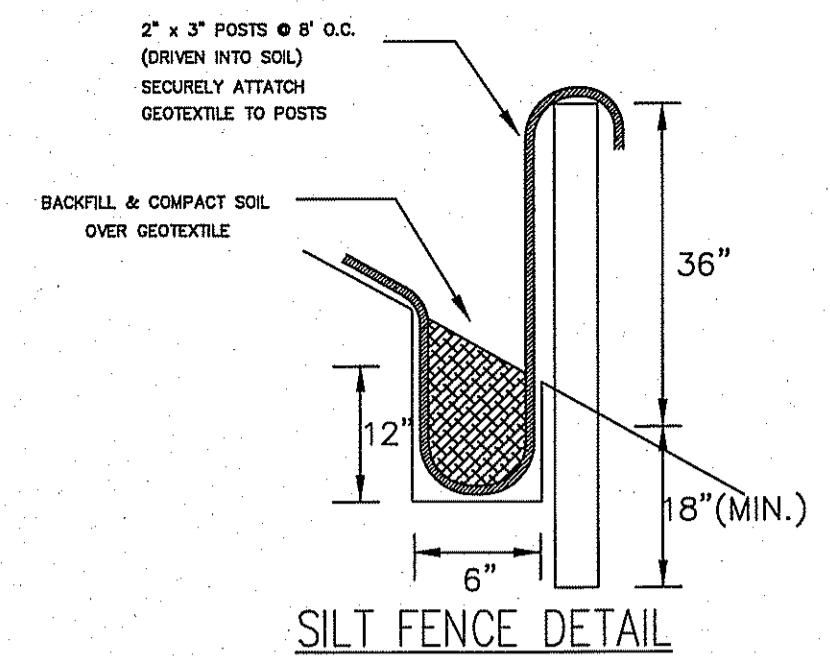
MINIMUM CONSTRUCTION CHECKPOINTS:
THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR HIS REPRESENTATIVE FOR AN INSPECTION OF THE FOLLOWING CHECK POINTS INCLUDING BUT NOT LIMITED TO:
-PRIOR TO ANY MAJOR DEVIATIONS FROM THE APPROVED PLANS.
-PRIOR TO BACKFILLING ANY HYDRAULIC CONDUITS OR STRUCTURES. -UPON COMPLETION OF SUBGRADE COMPACTION
-UPON COMPLETION OF BASE CONSTRUCTION -CONCRETE POURS FOR Poured IN PLACE STRUCTURES -LAMPING OF ALL SANITARY MAINS -PRIOR TO WATER MAIN FLUSHING
-PRESSURE TESTING OF WATER MAINS -PRIOR TO ANY CONNECTION TO EXISTING FACILITIES
NOTE: ANY TESTS OR OBSERVATIONS REQUIRED BY THE UTILITY COMPANY OR REGULATORY AGENCIES THAT ARE IN ADDITION TO THE ABOVE SHALL BE COMPLIED WITH.

SITE COORDINATION NOTES

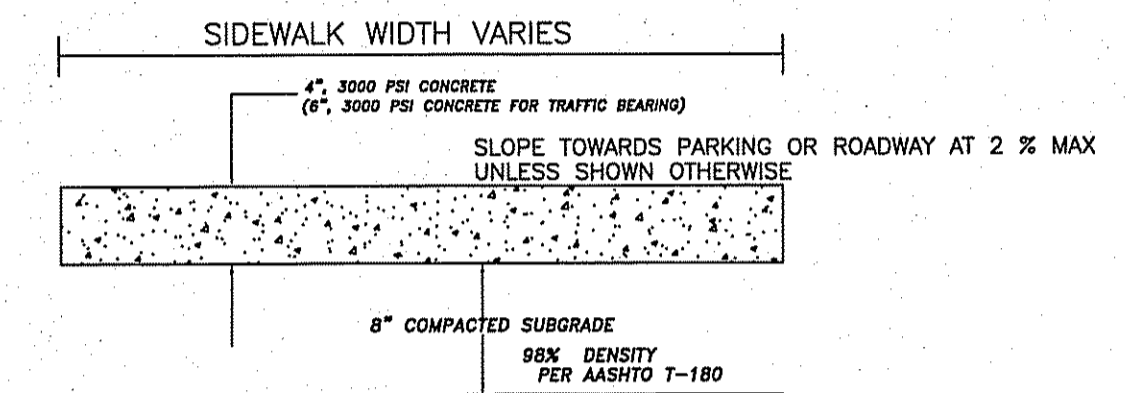
GENERAL NOTES (AS APPLICABLE):
- CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL CONDUITS AND UNDERGROUND LINES FOR IRRIGATION, ELECTRIC, PHONE, ETC. WITH THE PAVING AND DRAINAGE FACILITIES TO ASSURE THAT THE LINES AREA INSTALLED PRIOR TO THE INSTALLATION OF THE PAVEMENT SECTION.
- CONTRACTOR SHALL COMPLETE ALL SITE GRADING PRIOR TO THE INSTALLATION OF LANDSCAPING.
- GRASSING AND SODDING SHALL BE IN ACCORDANCE WITH LANDSCAPE PLANS
- CONTRACTOR SHALL PROTECT POWER POLES, GUY WIRES, ETC. FROM DAMAGE DURING CONSTRUCTION. ANY CONFLICTS WITH THE PROPOSED IMPROVEMENTS SHALL BE COORDINATED DIRECTLY WITH THE AFFECTED UTILITY COMPANY. CONTRACTOR TO COORDINATE DIRECTLY WITH UTILITY COMPANY FOR SECURING POLES DURING CONSTRUCTION, AS NEEDED.
- STRIPING SHALL BE IN ACCORDANCE WITH CURRENT PBC CODES AND CONTRACTOR SHALL VERIFY STRIPING REQUIREMENTS FOR ALL STRIPED AREAS PRIOR TO STRIPING
- ALL CATCH BASINS SHALL HAVE CLEAN MURAFI FILTER FABRIC PLACED ON THEM AND ANY AND ALL CONTRACTORS SHALL TAKE ALL REQUIRED ACTIONS TO PREVENT SOIL EROSION INTO THE DRAINAGE SYSTEM. MANHOLES, RECEIVING WATERS, ETC.
- UPON COMPLETION OF CONSTRUCTION ALL DISTURBED AREAS INCLUDING EXISTING FACILITIES, RIGHTS-OF-WAY, SIDEWALKS, LANDSCAPING, ETC. SHALL BE FULLY RESTORED.
- UPON COMPLETION OF ANY AND ALL SLOPES WITHIN THE PROJECT, PROTECTION MEASURES SUCH AS SOD, PLANTINGS, AND/OR TEMPORARY FILTER FABRICS SHALL BE INSTALLED TO PREVENT EROSION.

DRAINAGE SYSTEM FINAL INSPECTION NOTE.

ALL DRAINAGE SYSTEMS SHALL BE PUMPED DOWN TO BELOW ONE-THIRD OF THE DIAMETER OF THE PIPE (FROM THE INVERT) AND LAMPED AS A REQUIREMENT OF THE FINAL DRAINAGE INSPECTION.

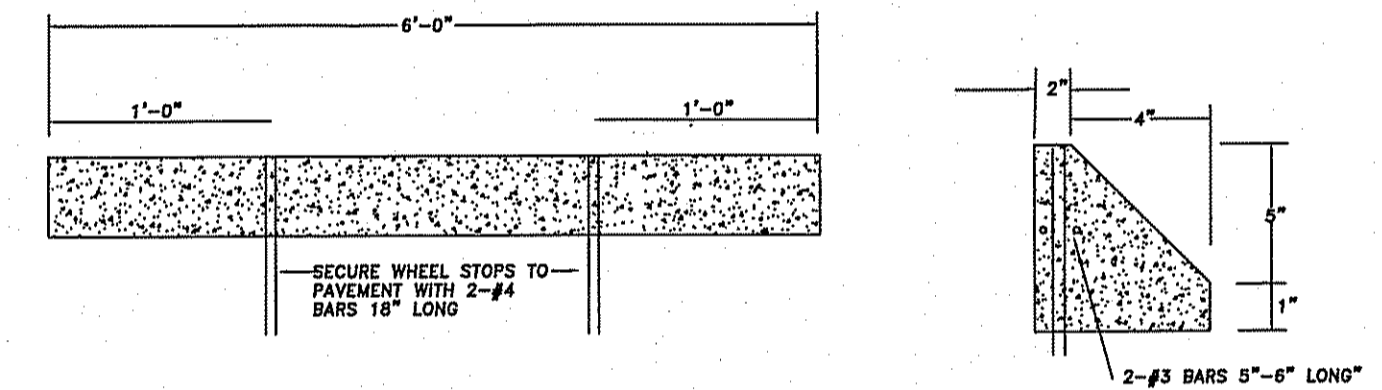


- NOTES**
- CONTRACTOR TO REMOVE SEDIMENT WHEN DEPOSIT REACHES 1/2 THE HEIGHT OF SILT FENCE.
 - GEOTEXTILE SHALL BE SPUN TOGETHER ONLY AT SUPPORT POSTS WITH A 6" OVERLAP.
 - IT IS THE CONTRACTORS RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF THE SILT FENCES.
 - SILT FENCES SHALL REMAIN IN PLACE UNTIL REMOVAL IS DIRECTED BY THE ENGINEER.

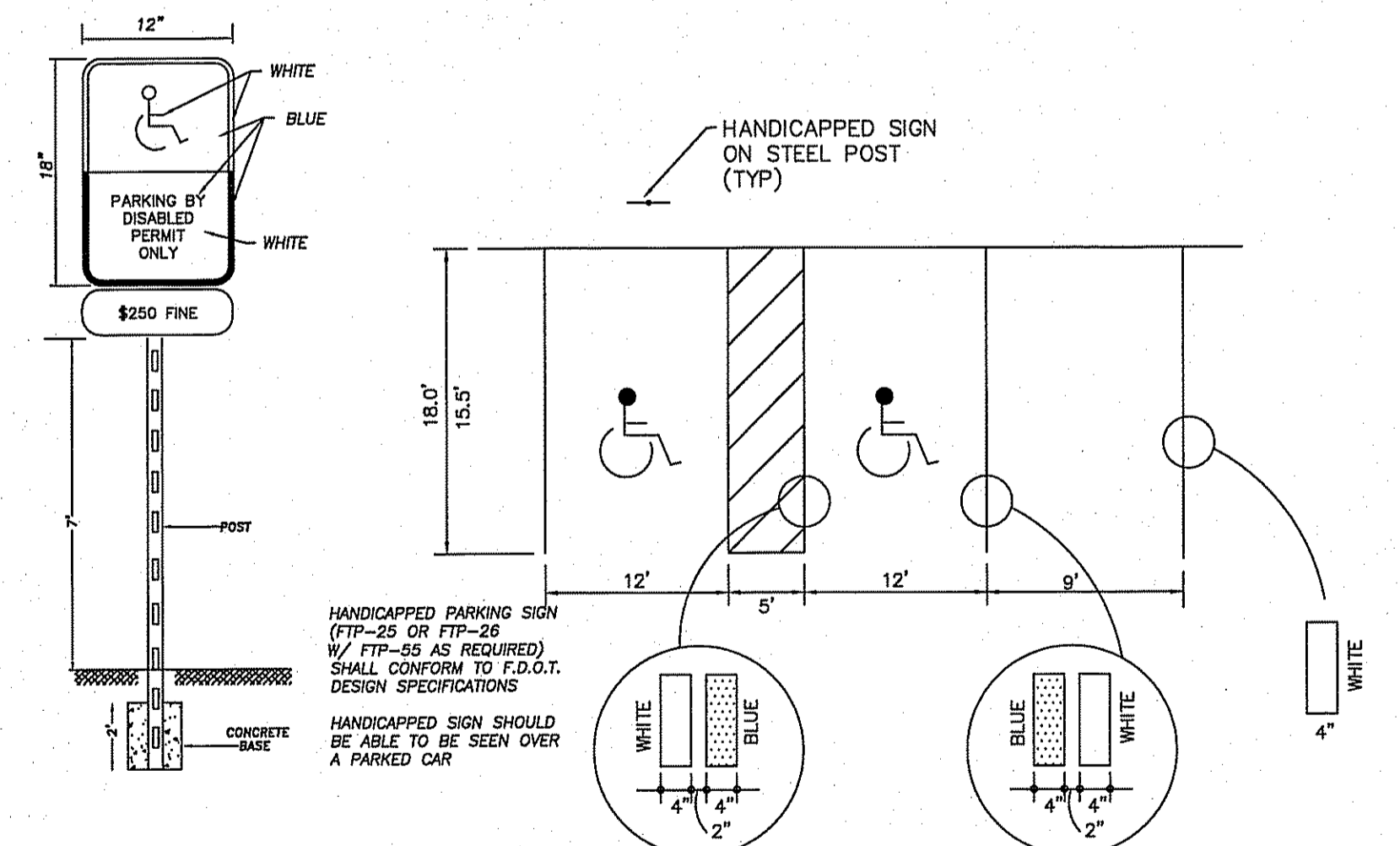


CONCRETE SIDEWALK SECTION DETAIL

NOTE: REFER TO FDOT INDEX 310 FOR ADDITIONAL INFORMATION AND SPECIFICATIONS



CONCRETE WHEEL STOP



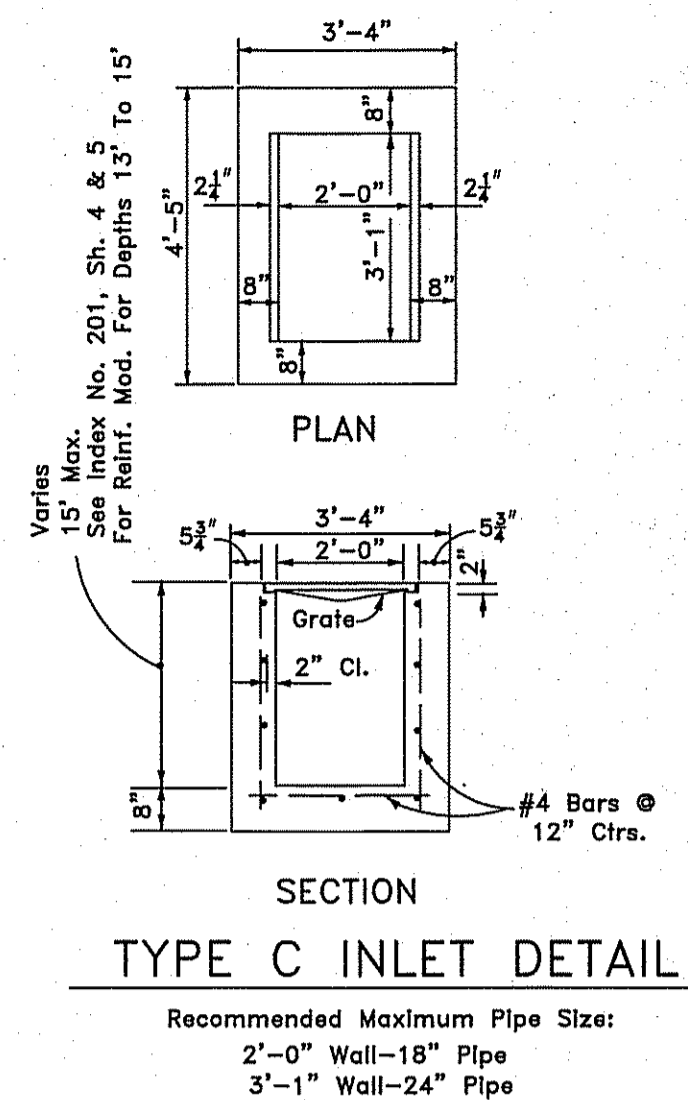
HANDICAP PARKING AND STRIPING DETAIL

NOTE: CONTRACTOR TO VERIFY ALL LOCAL STRIPING REQUIREMENTS AND CURRENT ADA HC STRIPING PRIOR TO CONSTRUCTION. IF CURRENT WRITTEN CODE DIFFERENT FROM DETAIL CURRENT WRITTEN CODE SHALL BE ADHERED TO.

VERIFY WITH THE CITY OF RIVERA BEACH

DATE		RECORD DRAWING DATA	BY	CRAB POT SITE PAVING AND DRAINAGE DETAILS		SEAL
				SOUTHERN DESIGN GROUP, INC.		
				Engineering, Planning & Project Management 608 Hopburt Avenue, Suite 204 Jupiter, Florida 33458 561-743-0501		
				DRAWN MAW	FIELD BOOK E.B.#5142	DATE 9/16
				DESIGNED BNU/MAW	CHECKED MAW	JOB NO. 15027
					SCALE NTS	DRAWING NO.
NO.	DATE	REVISIONS	BY			

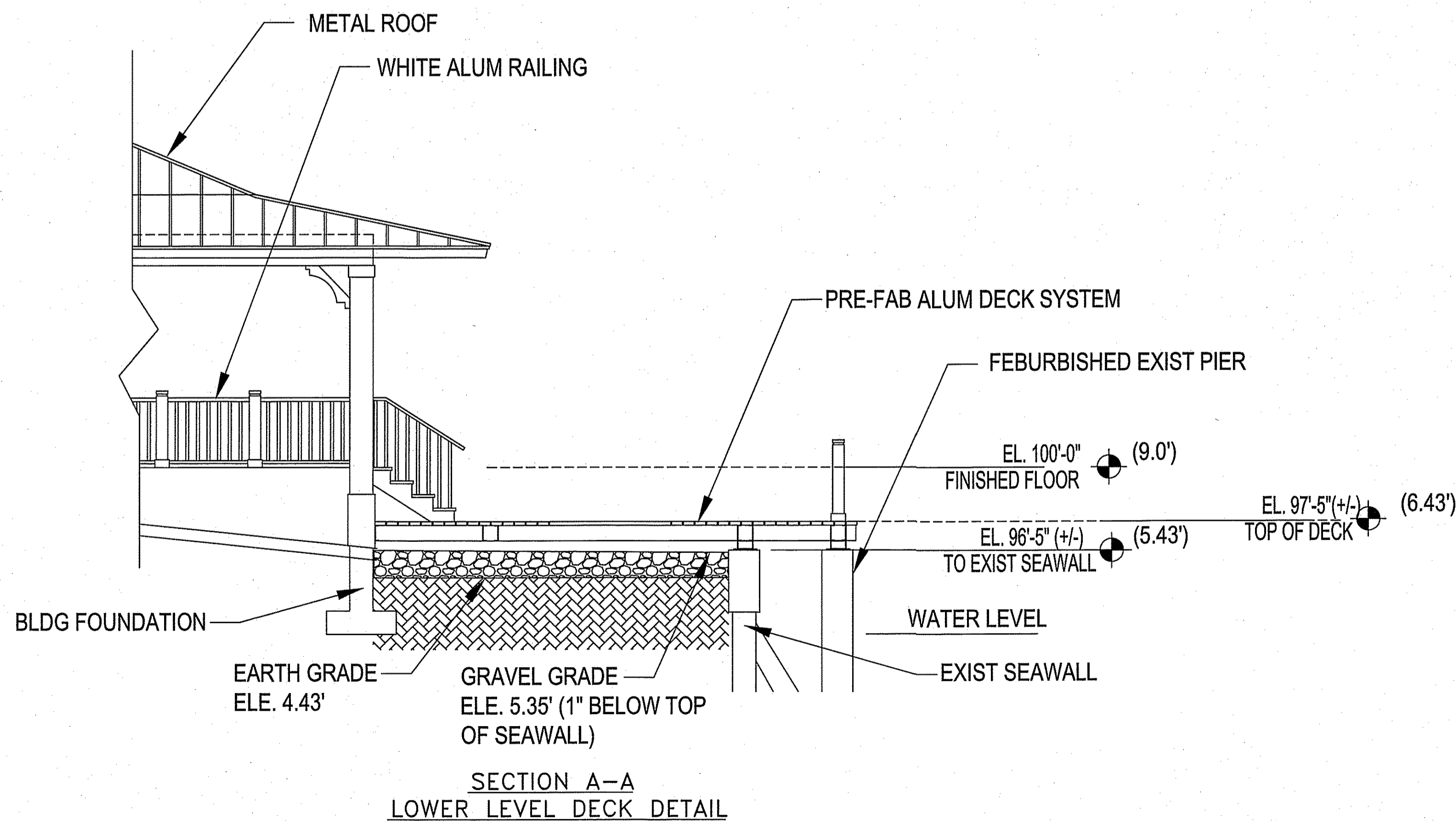
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GENERAL NOTES

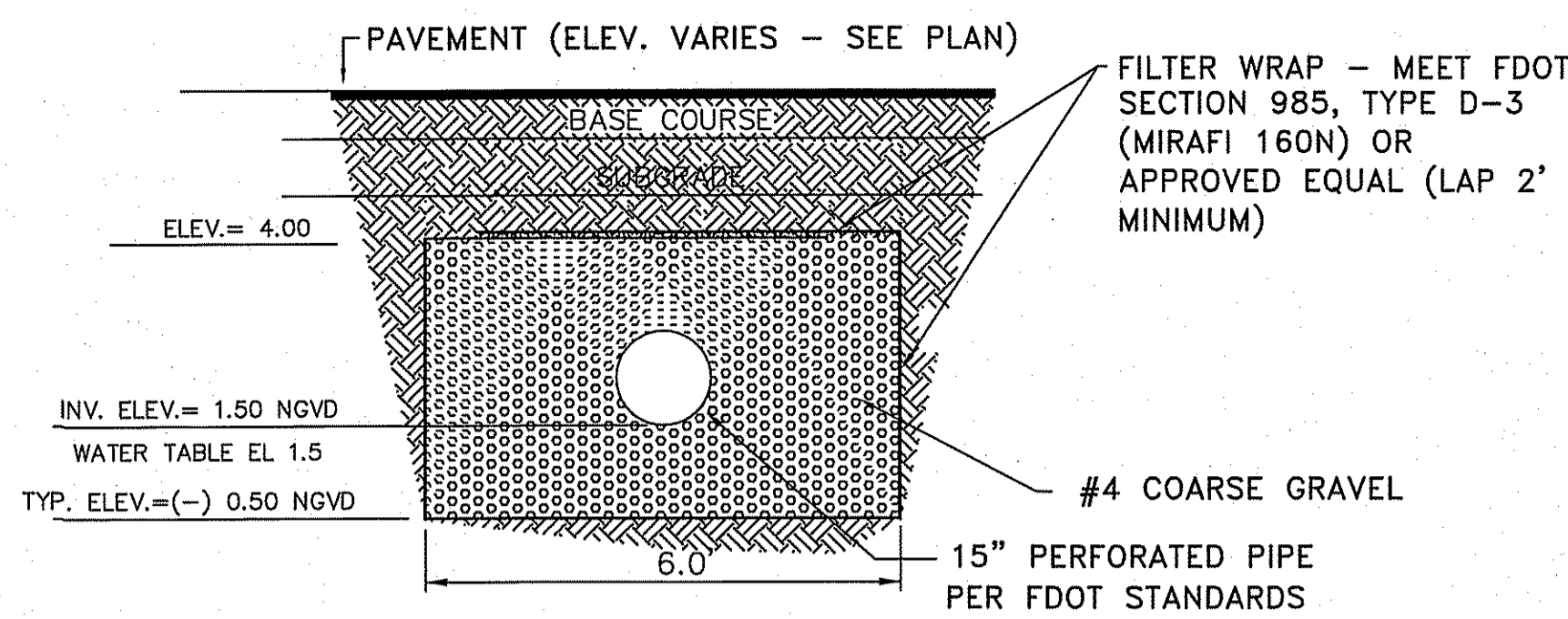
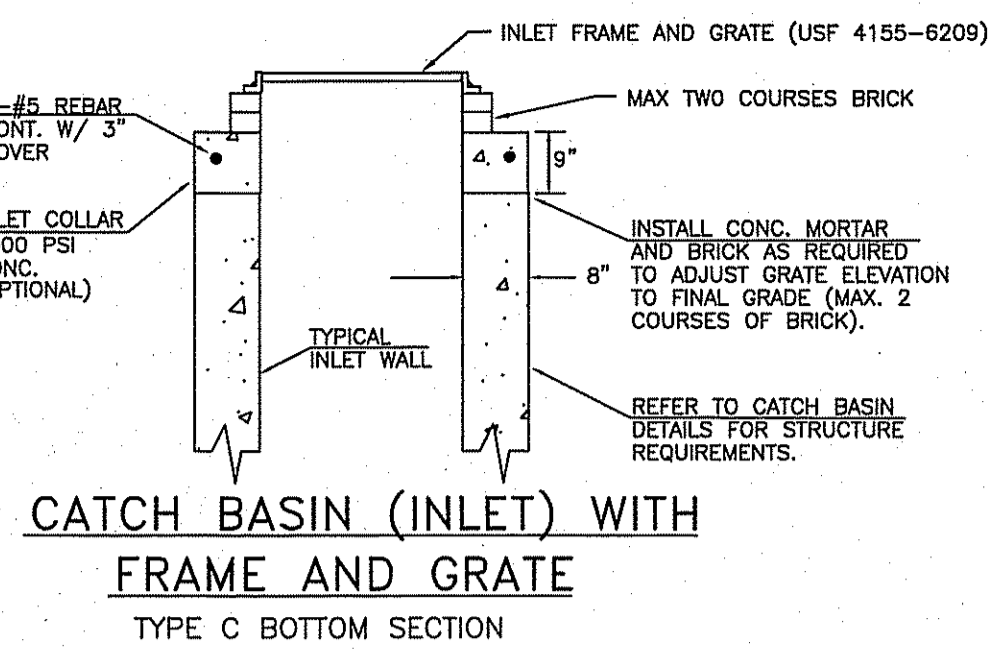
- Inlets shall have 8" minimum wall thickness and all grates shall be domestic.
- Inlets subject to minimal debris should be constructed without slots. Where debris is a problem inlets should be constructed with slots. Slotted inlets located within roadway clear zones and in areas accessible to pedestrians shall have traversable slots. The traversable slot modification is not adaptable to inlet Type H. Slots may be constructed at either or both ends as shown on plans.
- Steel grates are to be used on all inlets where bicycle traffic is anticipated. Steel grates are to be used on all inlets with traversable slots. Either cast iron or steel grates may be used on inlets without slots where bicycle traffic is not anticipated. Either cast iron or steel grates may be used on all inlets with non-traversable slots.
- Recommended maximum pipe sizes shown are for concrete pipe. Pipe sizes larger than those recommended must be checked for fit.
- All exposed corners and edges of concrete are to be chamfered.
- Sodding to be used on all inlets not located in paved areas.
- For supplementary details see F.D.O.T. Index No. 201.
- GRATES IN GRASS AREAS SHALL BE USF 6210
- FRAME AND GRATES IN PAVED AREAS SHALL BE USF 4155-6209

A SUMP 2' BELOW THE MINIMUM FLOW LINE ELEVATION MUST BE PROVIDED FOR ALL DRAINAGE STRUCTURES

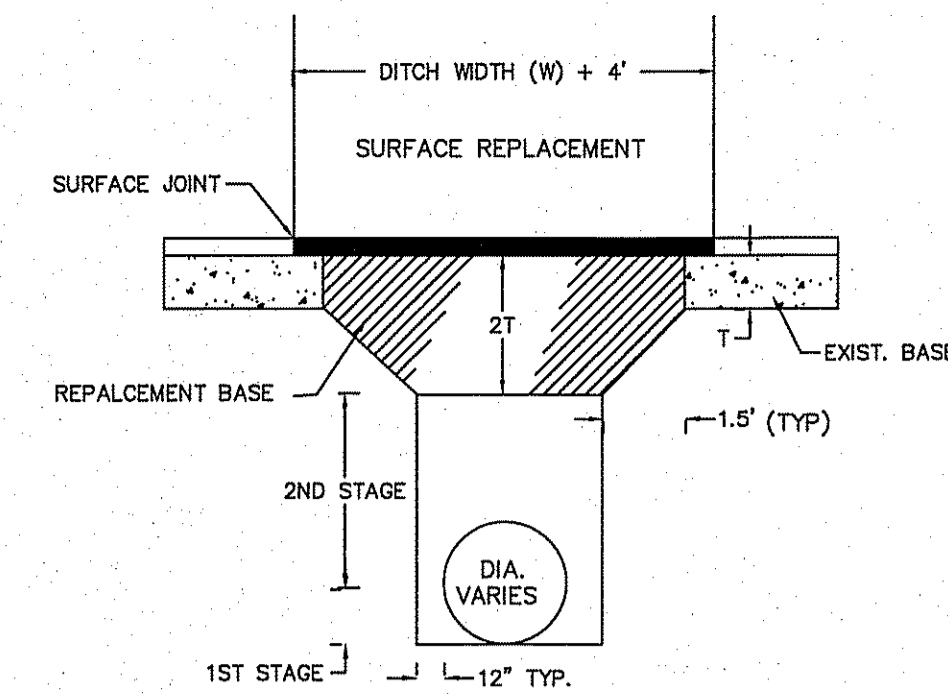
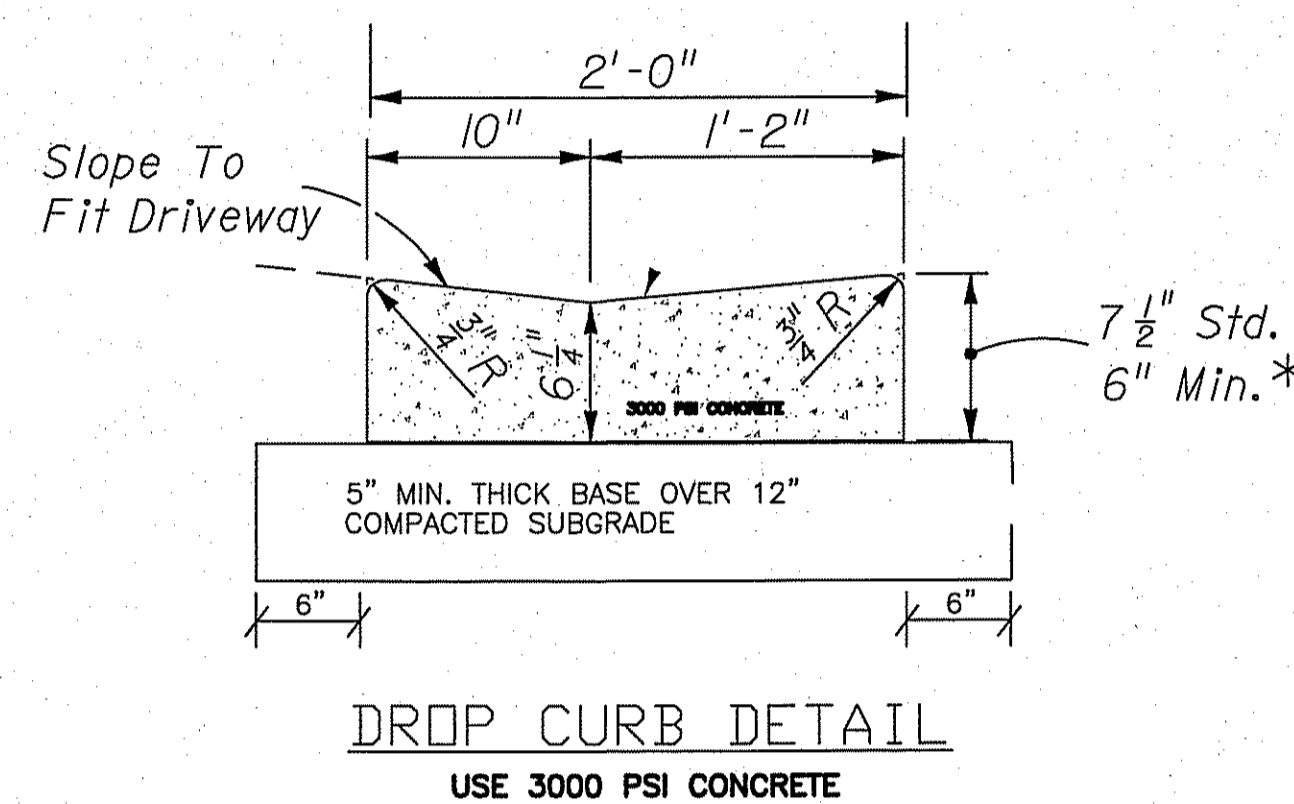
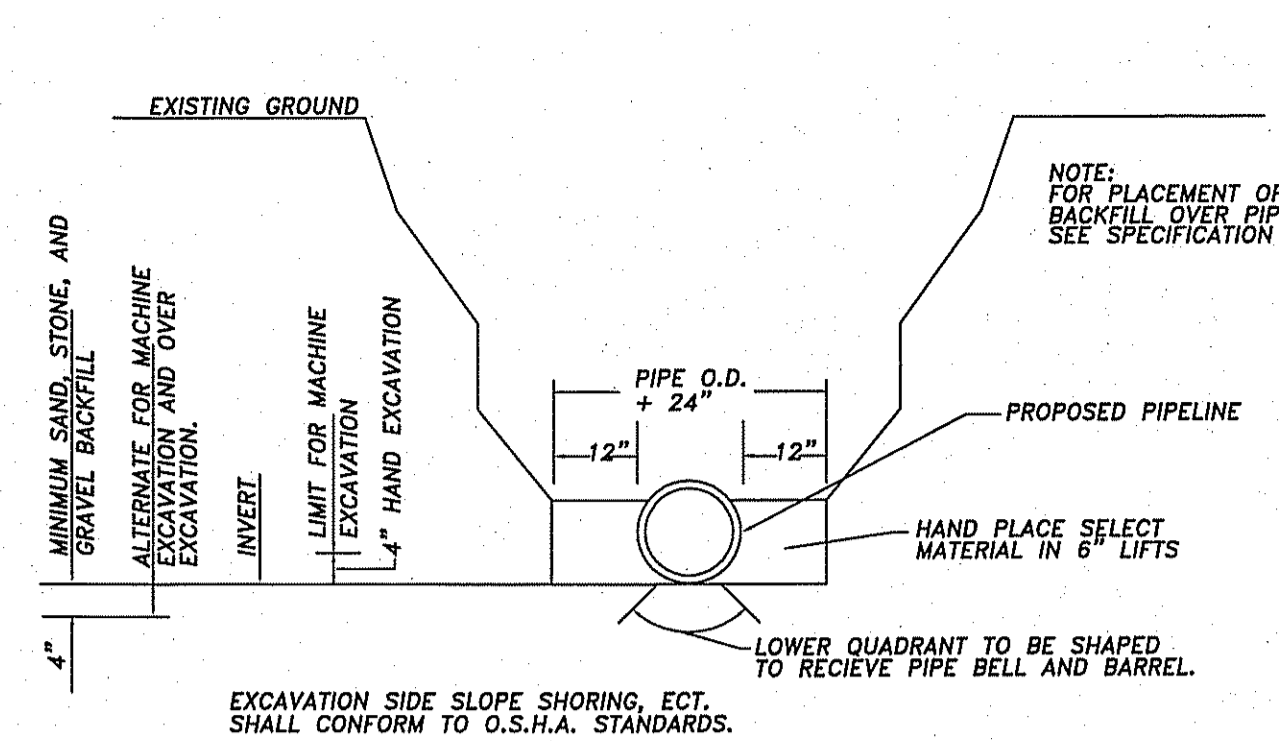
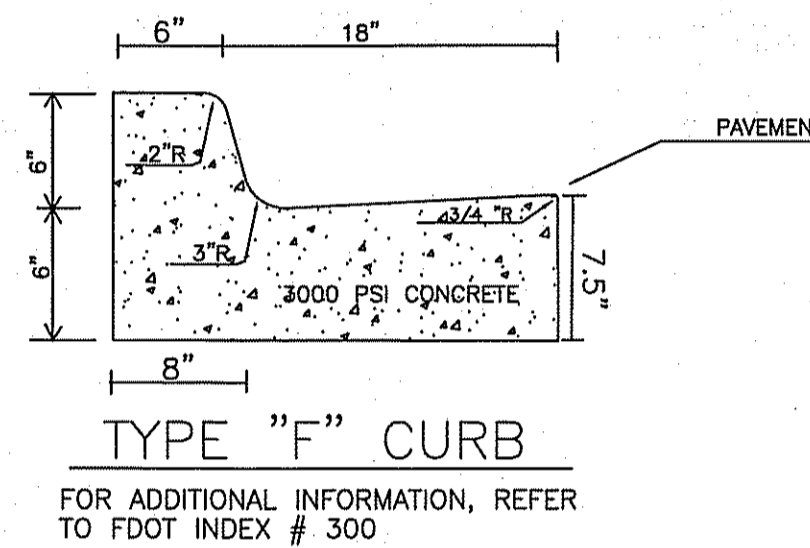
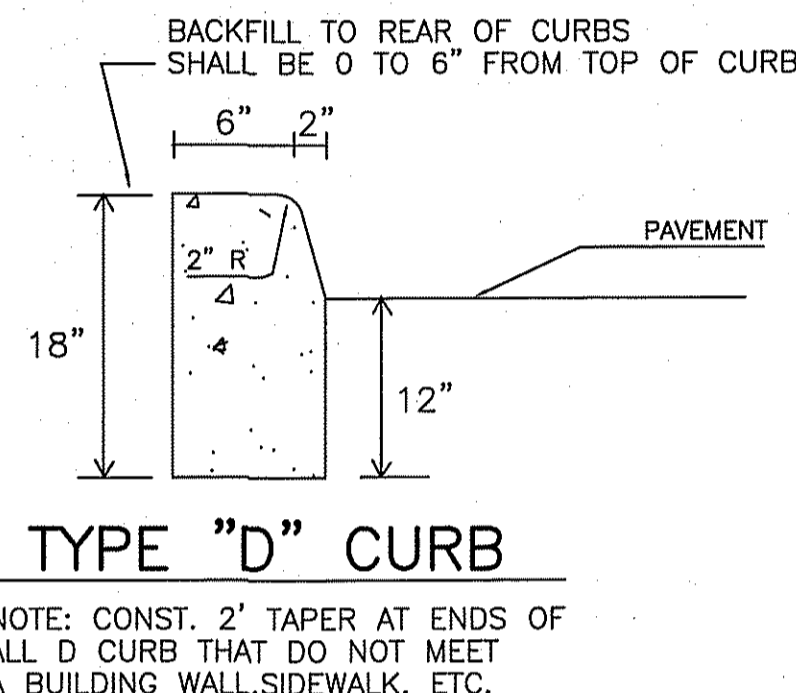


NOTE:
 1. INSTALL 2 LAYERS OF MIRAFI 160N (FDOT TYPE D-3) OR EQUAL FILTER FABRIC ON GRADE PRIOR TO INSTALLATION OF COURSE GRAVEL. OVERLAP FABRIC 2' MINIMUM. FABRIC SHALL BE TURNED UP AGAINST THE BUILDING AND SEAWALL TO FINAL GRADE. FABRIC SHALL ALSO BE TURNED UP AT ALL TERMINATIONS OR THE DECK TO MATCH GRADE ADJACENT TO DECK.

FILTER WRAP - MEET FDOT SECTION 985, TYPE D-3 (MIRAFI 160N) OR APPROVED EQUAL (LAP 2' MINIMUM)



NOTE:
 NON-PERFORATED PIPE TO BE INSTALLED 8" FROM STRUCTURE. TRENCH TO END 5' FROM STRUCTURE. TERMINATE TRENCH PER F.D.O.T. INDEX NO. 285
 FOR ADDITIONAL INFORMATION REFERENCE F.D.O.T. INDEX NO. 285



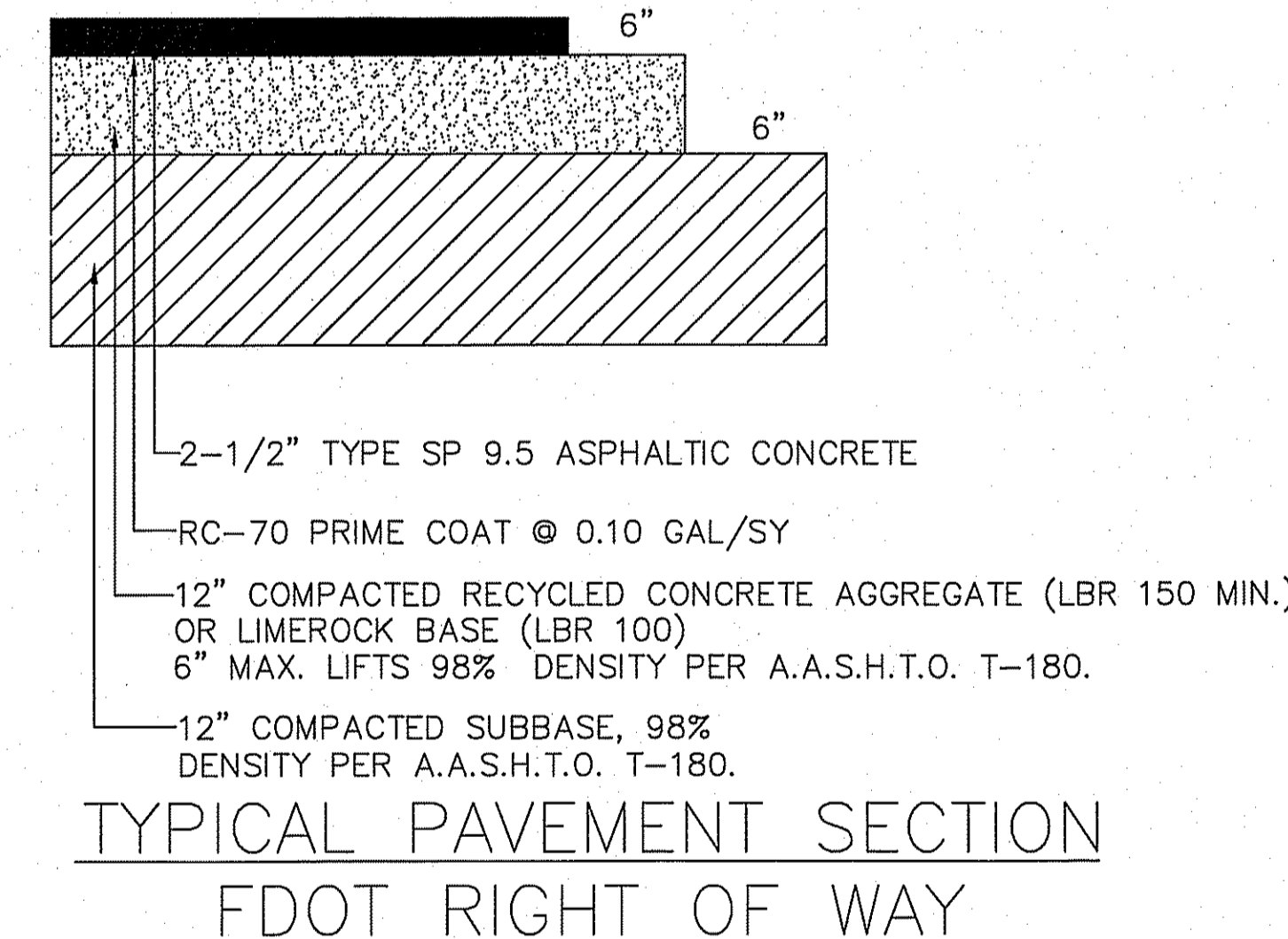
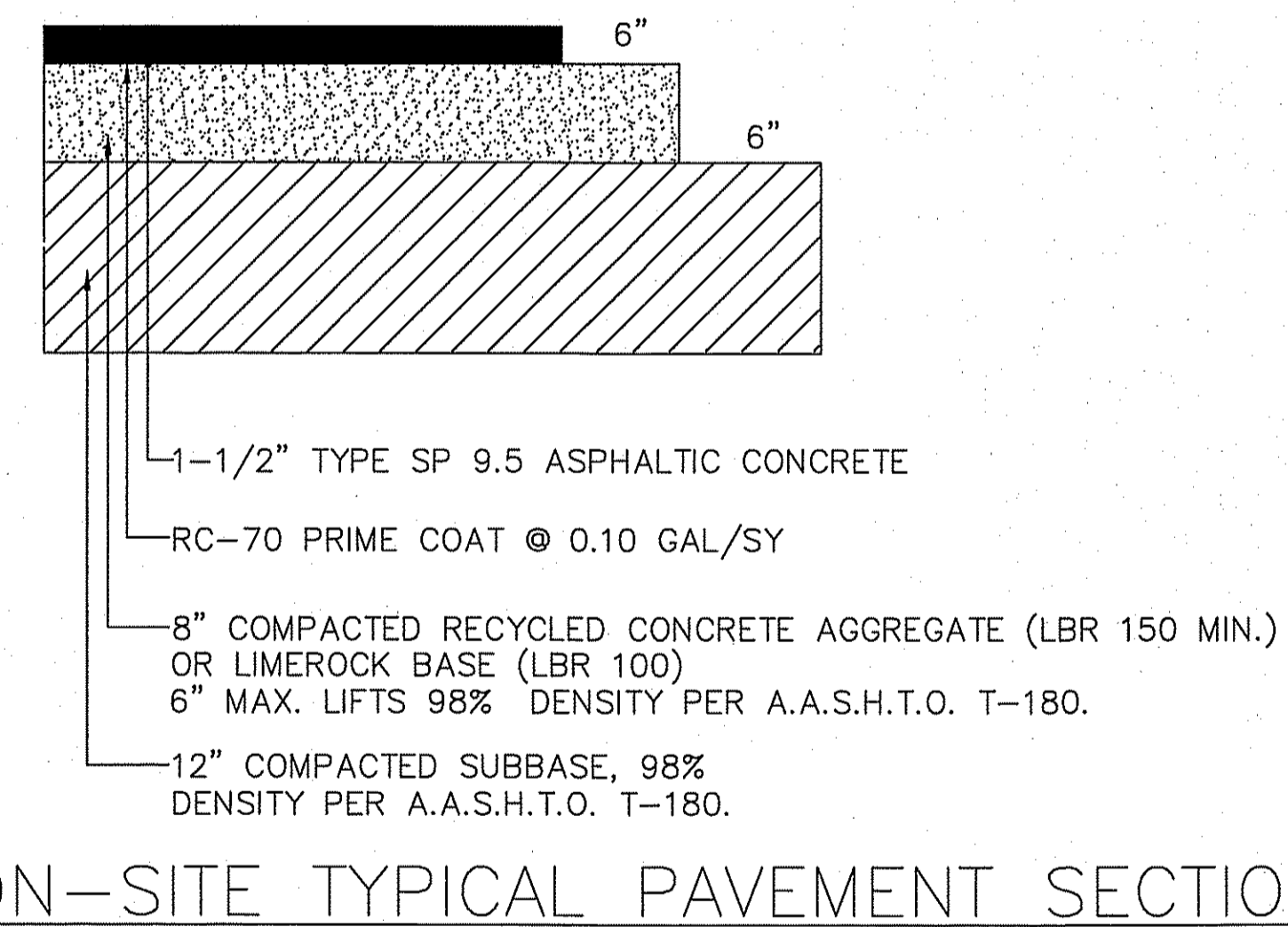
DENSITY PROCEDURES:
 THE BACKFILL FOR THE FIRST AND SECOND STAGES SHALL BE PLACED IN 6" LAYERS (COMPACTED THICKNESS) AND SHALL BE COMPACTED TO 100% OF MAXIMUM DENSITY PER AASHTO T-99.

STAGE #1:
 THE PERMITTEE SHALL PROVIDE ADEQUATE COMPACTED FILL BENEATH THE HAUNCHES OF THE PIPE, USING MECHANICAL TAMPS SUITABLE FOR THIS PURPOSE. THIS COMPACTATION APPLIES TO THE MATERIAL PLACED BENEATH THE HAUNCHES OF THE PIPE AND ABOVE ANY BEDDING REQUIRED.

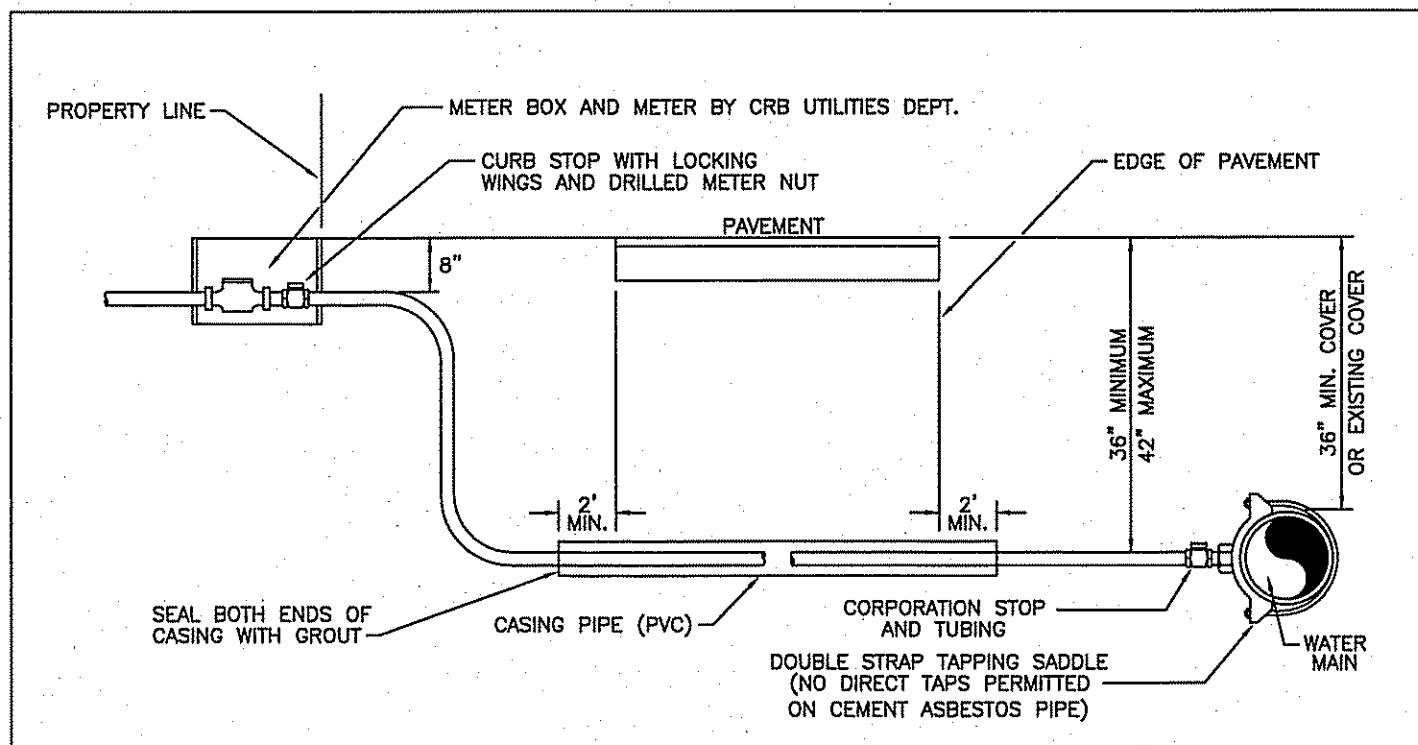
STAGE #2:
 THE PERMITTEE SHALL OBTAIN A WELL COMPACTED BED AND FILL ALONG THE SIDES OF THE PIPE TO A POINT INDICATING THE TOP OF SUBGRADE MATERIAL.

- GENERAL NOTES:
 1) BASE AND BACKFILL MATERIALS SHALL BE EITHER OF THE SAME TYPE AND COMPOSITION AS THE MATERIALS REMOVED, OR OF EQUAL OR GREATER STRUCTURAL ADEQUACY. MATERIALS CONTAMINATED WITH DELETERIOUS SUBSTANCES DURING EXCAVATION SHALL NOT BE USED.
 2) REPLACED BASE MATERIAL OVER DITCH SHALL BE TWICE THE THICKNESS OF THE ORIGINAL BASE.
 3) BASE MATERIAL SHALL BE PLACED IN TWO OR THREE LAYERS AND EACH LAYER THOROUGHLY ROLLED OR TAMPED TO THE SPECIFIED DENSITY.
 4) ASPHALT CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWS.
 5) SURFACE TREATED PAVEMENT JOINTS SHALL BE BUTT JOINTS.
 6) SURFACE MATERIAL WILL BE CONSISTENT WITH THE EXISTING SURFACE.
 7) LIMEROCK BASE SHALL BE INSTALLED IN 6" LAYERS WITH THE FOLLOWING DENSITY REQUIREMENTS PER AASHTO T-180:
 A) 98% UNDER ROADWAY
 B) 95% OUTSIDE THE TRAVELED ROADWAY, SUCH AS INTERSECTIONS, CROSSOVERS, TURNOUTS, ETC.
 C) 95% SHOULDER PAVEMENT

REPLACEMENT OF FLEXIBLE PAVEMENT FOR PERMITTED PAVEMENT CUT PAVEMENT RESTORATION DETAIL



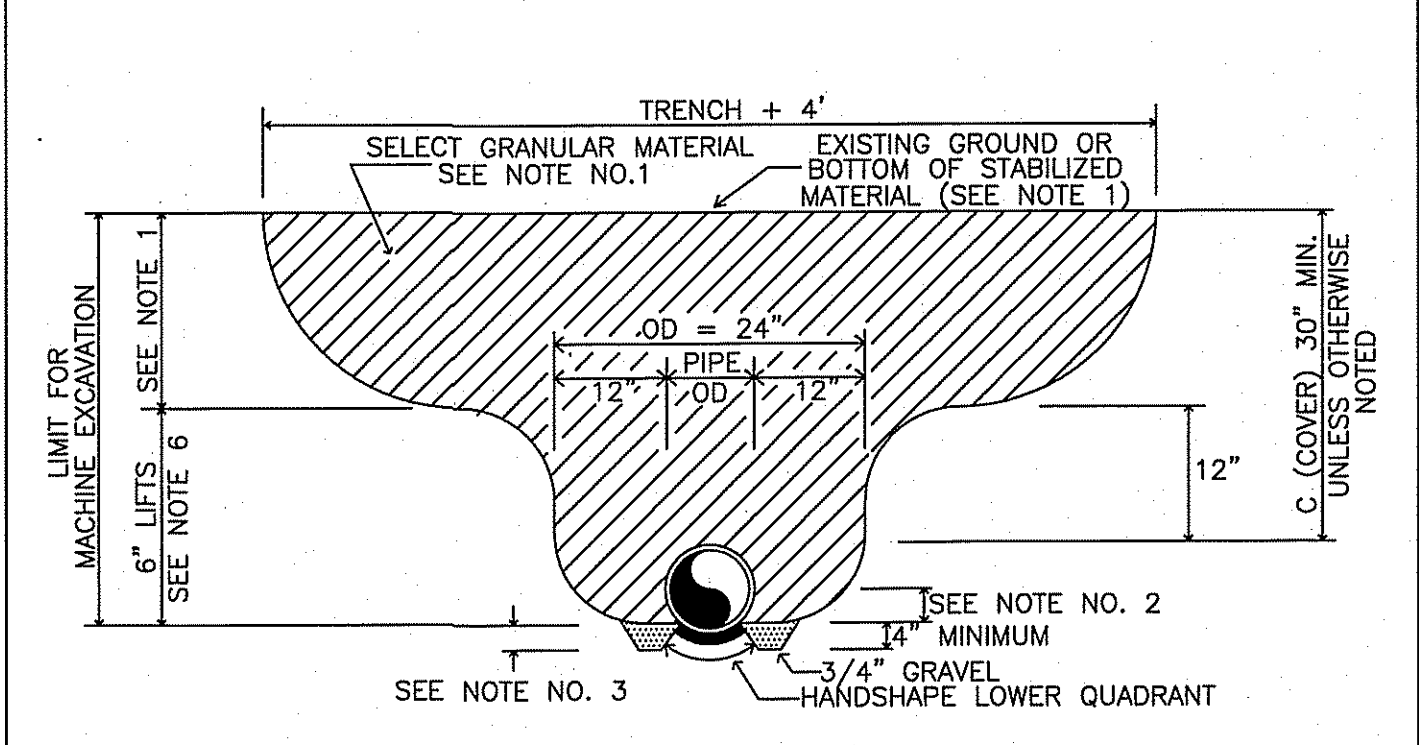
CRAB POT SITE PAVING AND DRAINAGE DETAILS				SEAL
DATE	REVISION	RECORD DRAWING DATA	BY	SOUTHERN DESIGN GROUP, INC. Engineering, Planning & Project Management 609 Hepburn Avenue, Suite 204 Jupiter, Florida 33458 561-743-0501
DRAWN	FIELD BOOK	DATE	JOB NO.	SHEET 5 OF 7
DESIGNED	CHECKED	SCALE	DRAWING NO.	
NO.	DATE	REVISIONS	BY	



- NOTES:**
- CASINGS SHALL BE REQUIRED FOR ALL LONG SIDE SERVICES.
 - SUCCESSIVE TAPS INTO THE WATER MAIN SHALL BE SPACED A MINIMUM OF 18" OFFSET.
 - WHERE NO SIDEWALK EXISTS, METER BOXES SHALL BE SET TO CONFORM TO FINISH GRADE.
 - COPPER TUBING SHALL BE TYPE "K" WITH COMPRESSION FITTINGS.
 - USE EMS MARKER #1252 COLOR BLUE DIRECTLY OVER THE CORPORATION STOP.
 - ALL SERVICE LINES SHALL BE EQUIPPED WITH A CORPORATION STOP AT THE MAIN AND A CURB STOP (LOCKING CONNECTION TYPE) AT THE METER.
 - THE COPPER SERVICE LINE SHALL BE CONTINUOUS FROM CORPORATION STOP TO CURB STOP WITH NO FITTINGS IN BETWEEN.
 - TAPPING SADDLES AND CORPORATION STOPS SHALL HAVE AWWA INLET THREADS.
 - ALL EXPOSED FITTINGS TO BE COATED WITH COLA TAR EPOXY.
 - GALVANIZED CASING REQUIRED FOR ANY INSTALLATION REQUIRING A JACK AND BORE, SCH. 40 PVC MAY BE USED FOR AN OPEN CUT INSTALLATION WITH THE APPROVAL OF THE CRB UTILITIES DEPT. CASING SHOULD EXTEND TWO (2) FEET BEYOND EDGE OF PAVEMENT AND SIZED AS FOLLOWS:
 A.) 1" SERVICE USE 2" CASING
 B.) 1 1/2" SERVICE USE 3" CASING
 C.) 2" SERVICE USE 4" CASING

3/4" - 2" TYPICAL WATER SERVICE INSTALLATION
 N.T.S. 05/27/05

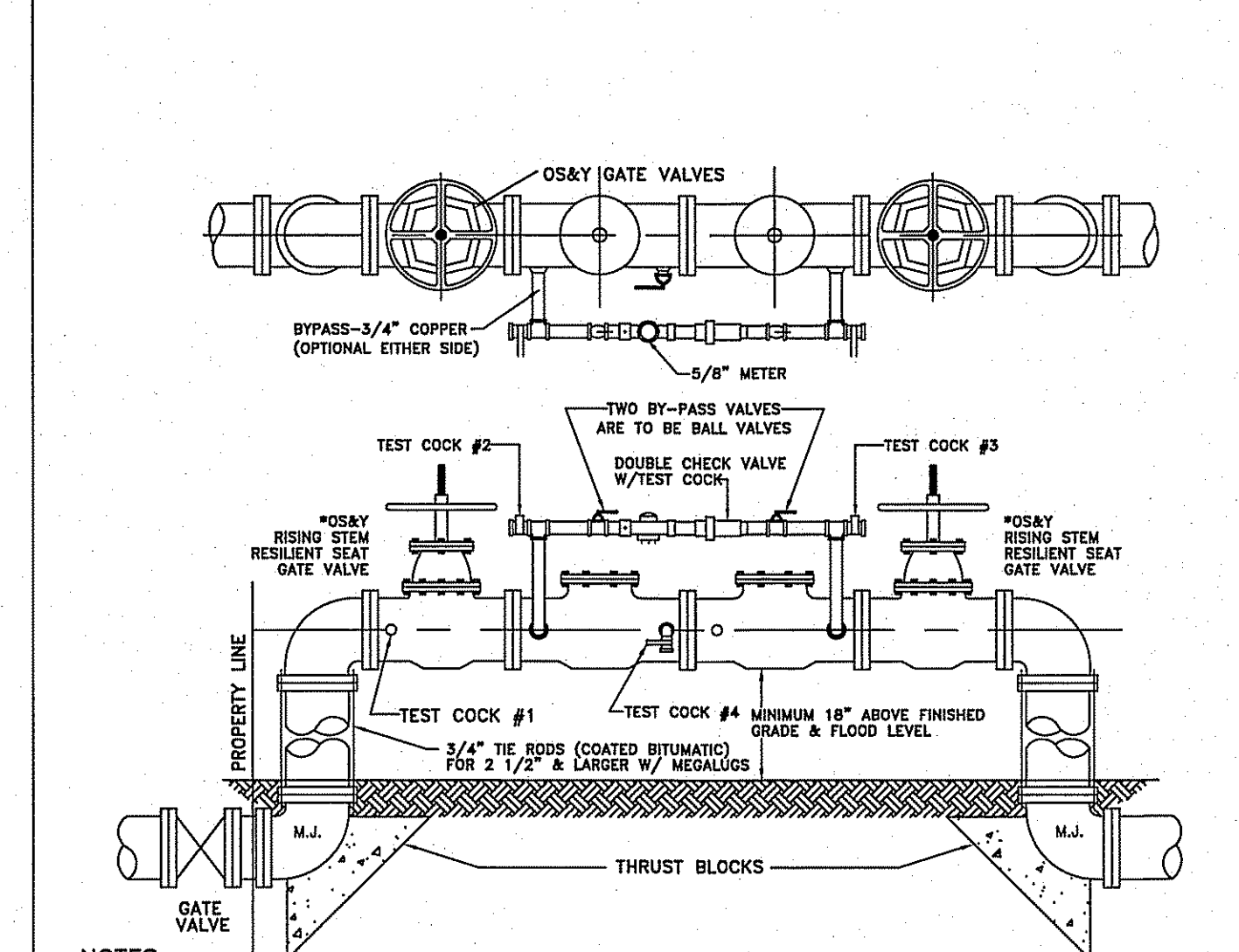
Water & Sewer Details
 City of Riviera Beach
 Utility District



- NOTES:**
- IF THE TRENCH IS LOCATED UNDER ASPHALT PAVEMENT, THE TRENCH IS TO BE BACKFILLED WITH CLEAN GRANULAR MATERIAL, IN 6" LAYERS (MAXIMUM), COMPACTED TO 100% MAXIMUM DENSITY PER A.A.S.H.T.O. T-99 SPECIFICATIONS. IF THE TRENCH IS LOCATED OUTSIDE OF PAVEMENT AREAS, THE TRENCH IS TO BE BACKFILLED WITH CLEAN GRANULAR MATERIAL, IN 12" LAYERS (MAXIMUM), AND COMPACTED TO 100% MAXIMUM DENSITY PER A.A.S.H.T.O. T-99 SPECIFICATIONS.
 - FILL MATERIAL TO BE PLACED MANUALLY UP TO THE SPRING LINE OF THE PIPE AND COMPACTED BY HAND PRIOR TO ADDING ADDITIONAL MATERIAL.
 - AS AN ALTERNATIVE TO HANDSHAPING LOWER QUADRANT, CONTRACTOR MAY OVER EXCAVATE THE TRENCH AND BACKFILL WITH 3/4" GRAVEL AS SHOWN.
 - TRENCH WIDTH SHALL NOT BE GREATER THAN THE STATED 6".
 - CONTRACTOR IS RESPONSIBLE FOR MEETING ALL SAFETY STANDARDS FOR TRENCHING WIDTHS, CONSIDERING O.S.H.A. STANDARDS FOR SOIL TYPES, TRENCH WIDTHS, ANGLE OF REPOSE, ETC. IN ORDER TO PROPERLY PROTECT HIS EMPLOYEES.
 - IF USING P.V.C. PIPE, COMPACT MATERIAL UP TO 12" ABOVE PIPE BY HAND. IF USING D.I. PIPE, COMPACT MATERIAL BY HAND UP TO TOP OF PIPE AND COMPACT REMAINING 12" TO 95% MAXIMUM DENSITY PER A.A.S.H.T.O. T-99 SPECIFICATIONS.

TYPICAL PIPELINE TRENCH AND BACKFILL
 06/04/08

Water & Sewer Details
 City of Riviera Beach
 Utility District



- NOTES:**
- ABOVE GROUND INSTALLATION OF 3" & ABOVE REQUIRE RISING STEM O.S. & Y. RESILIENT SEAT GATE VALVES WITH TEST COCKS.
 - INSTALLATION AND CERTIFICATION REQUIRED BY A CERTIFIED BACKFLOW TECHNICIAN PRIOR TO ACCEPTANCE.
 - AN RPZ BACKFLOW PREVENTION ASSEMBLY MUST BE INSTALLED DOWNSTREAM OF THE DOMESTIC AND IRRIGATION METER, 18" - 24" ABOVE FINISHED GRADE ON NON-GALVANIZED METAL PIPE. WORK DONE ON THIS DEVICE IS TO BE PERFORMED BY A CERTIFIED BACKFLOW TECHNICIAN AND TEST REPORTS MUST BE SUBMITTED TO THE CITY OF RIVIERA BEACH - UTILITY DISTRICT.

DOUBLE DETECTOR CHECK ASSEMBLY & METER
 INSTALLATION SIZES: 3", 4", 6", 8", 10"
 N.T.S. 05/27/05

Water & Sewer Details
 City of Riviera Beach
 Utility District

GENERAL NOTES: (As Applicable)

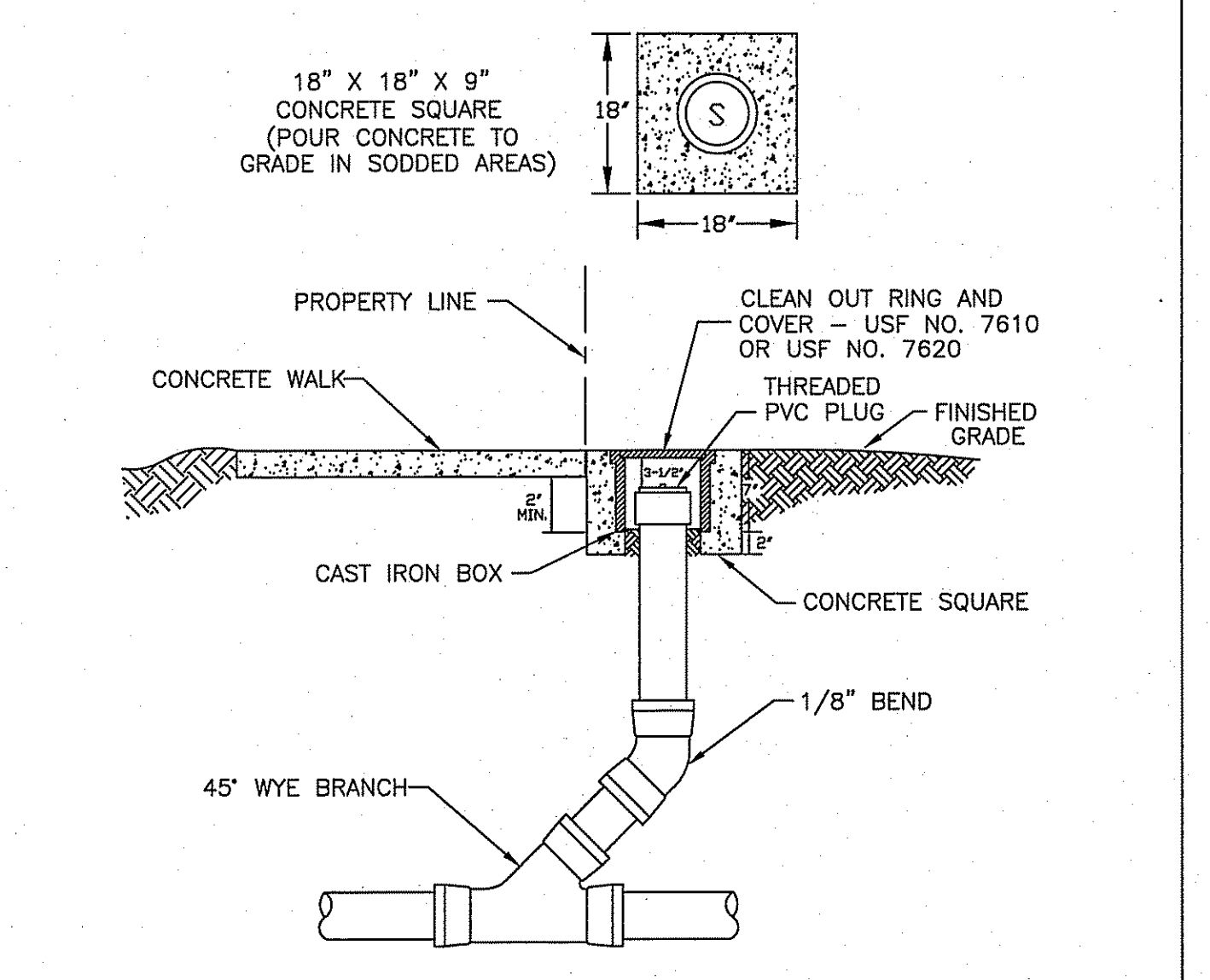
- All work and materials shall conform to the City of Riviera Beach Utility Standards. Contractor shall obtain a copy of the latest City of Riviera Beach Utility Standards prior to construction.
- Shop drawings and material specifications shall be submitted to the Engineer and City of Riviera Beach Utilities for review and approval prior to construction.
- Contractor shall obtain copies of all permits for the water and sewer work and shall review permits and comply with all requirements identified in the permits.
- All connections to existing facilities shall be made under the direct supervision of the City of Riviera Beach Utilities.
- A pre-construction meeting shall be conducted with the City of Riviera Beach, Developer, Contractors, Engineer and all other appropriate parties prior to construction.
- Water Valve Boxes, Water Meters, Manhole Covers and other appurtenances of any kind relating to underground utilities shall not be located in any portion of a curb and gutter section. Contractor shall review all potential locations for these types of facilities and coordinate with City, Engineer and Layout Surveyor to confirm compliance with these requirements.
- All crossings and separation of water, sewer, drainage and all other underground facilities shall be field verified by a Registered Professional Surveyor during construction and this information included on the "Record Drawings" of the underground facilities.
- Record drawings of all underground facilities shall be provided to the Engineer and to the City. The contractor shall coordinate with the developer and all site contractors to obtain this information during the construction process. All Record Drawing information shall be prepared by a Registered Professional Surveyor and shall comply with the requirements of the Regulatory Agencies and Engineer.
- All Sanitary Manholes shall be reviewed by the City of Riviera Beach prior to placement.
- Water Mains shall be pressure tested and bacteriologically tested in accordance with permit requirements and City of Riviera Beach requirements. Force main shall be pressure tested in accordance with permit requirements.
- Sanitary Sewer system shall be tested for infiltration and exfiltration in accordance with permit requirements.
- Filling and flushing of mains shall be performed in accordance with the City of Riviera Beach requirements and per the detail provided on the plans.
- Ductile Iron Pipe Sanitary Sewer and Force Main shall be lined with polyethylene or Protecto 401 as required by the City of Riviera Beach Utilities. Ductile Iron Pipe shall be class 52 as required by the City of Riviera Beach Utilities.
- Ductile Iron Pipe Water Main shall be class 52 as required by the City of Riviera Beach Utilities. Ductile Iron Pipe shall be class 52 as required by the City of Riviera Beach Utilities.
- All material and workmanship shall comply with AWWA Specification C-600 latest revision.
- Sanitary Sewer installation shall be tested for deflection with a mandrel and shall not exceed the manufacturers recommendations and the City of Riviera Beach requirements.
- The master meter shall be equipped with Radio Read electronics in accordance with the City of Riviera Beach Utilities requirements.

WATER AND SEWER INSTALLATION PROTOCOL

- All pipe is to be laid in a clean dry trench.
- All muck and unsuitable materials encountered in trench bottom shall be removed and replaced with compacted granular material to 95% of maximum density per AASHTO T-180. Proctor and density test results shall be submitted to EOR with a copy to the City of Riviera Beach.
- All backfill within road rights-of-way shall be placed in 12 inch lifts and compacted by mechanical means to 98% of maximum density per AASHTO T-180 or as otherwise required by the permitting agency.
- Utilities crossing road rights-of-way shall be installed prior to road construction and backfilled and compacted within right-of-way limits in strict accordance with the directions of the EOR and requirements of all agencies of jurisdiction.
- Embedment materials below pipe shall conform to Unified Soil Classification System (U.S.C.S.) Soil Classification Class 1 or II as noted in ASTM D2921.
- All lines under construction shall be plugged with a wing plug, and all pressure pipes are to be plugged with a mechanical plug or cap at the end of the working day to prevent ground water and potential contaminants from entering completed lines and lines under construction.
- All tie rods, bolts, nuts, etc. installed underground must be Cor Ten and shall be painted with Koppers 300-M or an Authority approved equal. Brass and stainless steel hardware is exempt from this requirement.
- Coatings and linings damaged during construction due to field cutting, mishandling or otherwise must be repaired in strict accordance with the manufacturer's recommendations. This includes, but is not limited to, cement mortar and polyethylene pipe linings, Protecto 401, galvanized coatings, PVC fence coatings and other point type coatings.
- All stainless steel nuts, bolts and hardware referenced in these standards, shall be SS 316 grade and shall be so stamped by the manufacturer to verify alloy. The use of any other stainless steel alloy will require specific approval by Authority. In general, stainless steel nuts, bolts and hardware are required in and around lift stations and for facilities installed over or under brackish or marine waters. This requirement applies to flange bolts and nuts on flanged piping, mounting brackets, all threaded rod, anchor bolts, washers, clamps and other miscellaneous hardware. Anti-galling compound anti-seize lubricant shall be applied to the threads of all stainless steel bolts prior to installation.

Anti-seize lubricant shall be graphite 50 anti-seize by Lactite Corporation, 1000 anti-seize paste by Dow Corning, 3M Lube and anti-seize by 3M. 12. All rubber and synthetic elastomeric components of products that come in contact with potable water shall be manufactured with chloramine resistant elastomers and shall bear NSF approval.

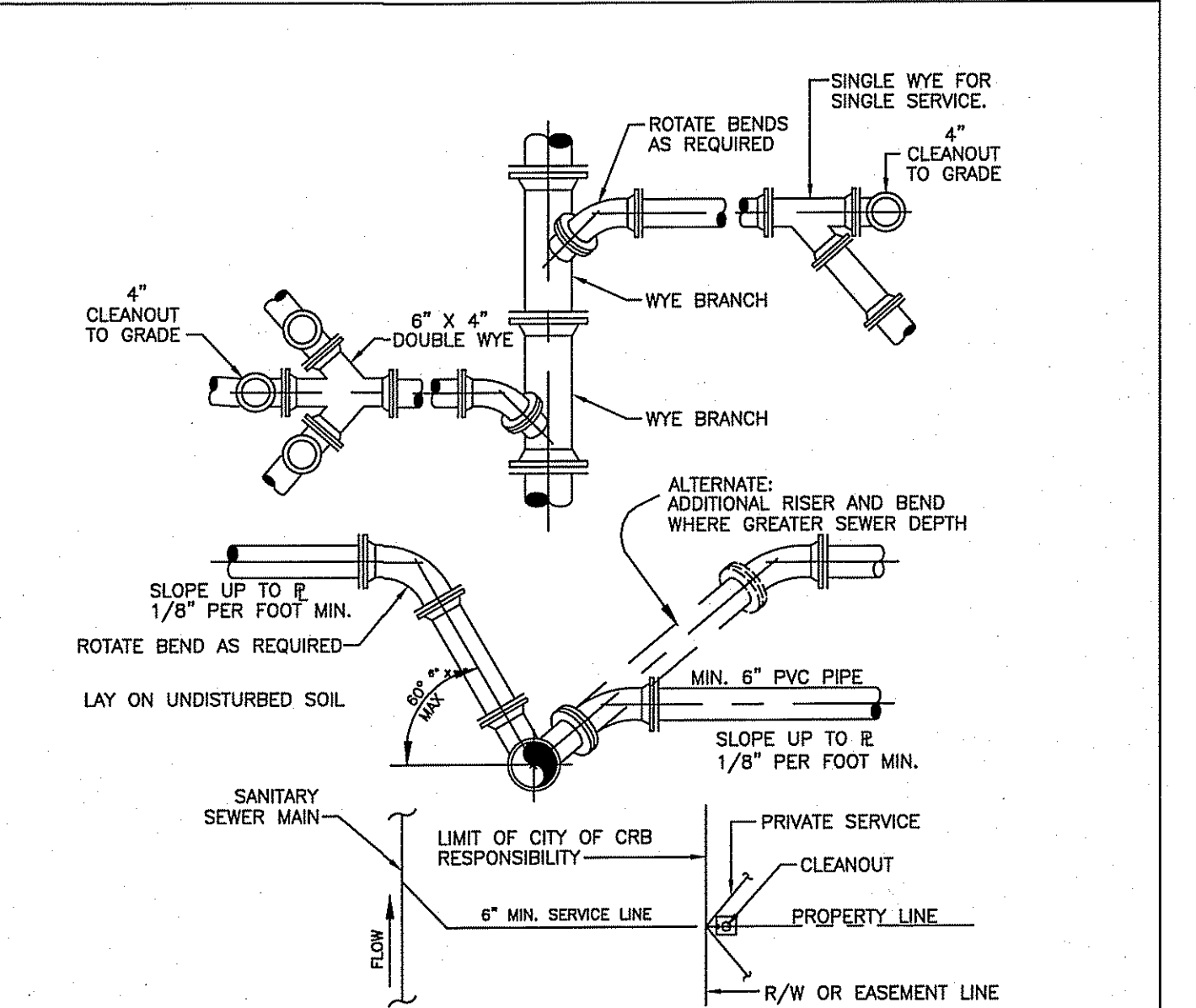
- All main, including fittings, shall be easily identifiable as to their contents and shall be color coded or marked using the universal color code of blue for water, green for sewer and lavender for reclaimed. Pipe striped during manufacturing of the pipe shall have continuous stripes that run parallel to the axis of the pipe, that are located at no greater than 90-degree intervals around the pipe, and that will remain intact during and after installation of the piping. If tape is used to stripe pipe during installation of the pipe, the tape shall be applied in a continuous line that runs parallel to the axis of the pipe and that is located along the top of the pipe; for pipes with an internal diameter of 24 inches or greater, tape shall be applied in continuous lines along each side of the pipe as well as along the top of the pipe.



- NOTES:**
- CLEAN OUTS TO BE LOCATED IN GRASS WHENEVER POSSIBLE.
 - CLEANOUTS SHALL NOT BE INSTALLED IN TRAFFIC LANES OR AREAS UNDER HEAVY TRAFFIC LOADS.
 - THE COVER TO BE MARKED "S".
 - CLEANOUTS TO BE INSTALLED PRIOR TO WATER METER RELEASE.
 - NO 90 BENDS SHALL BE USED FOR CLEANOUT INSTALLATION.

CLEAN OUT AT PROPERTY LINE
 N.T.S. 05/27/05

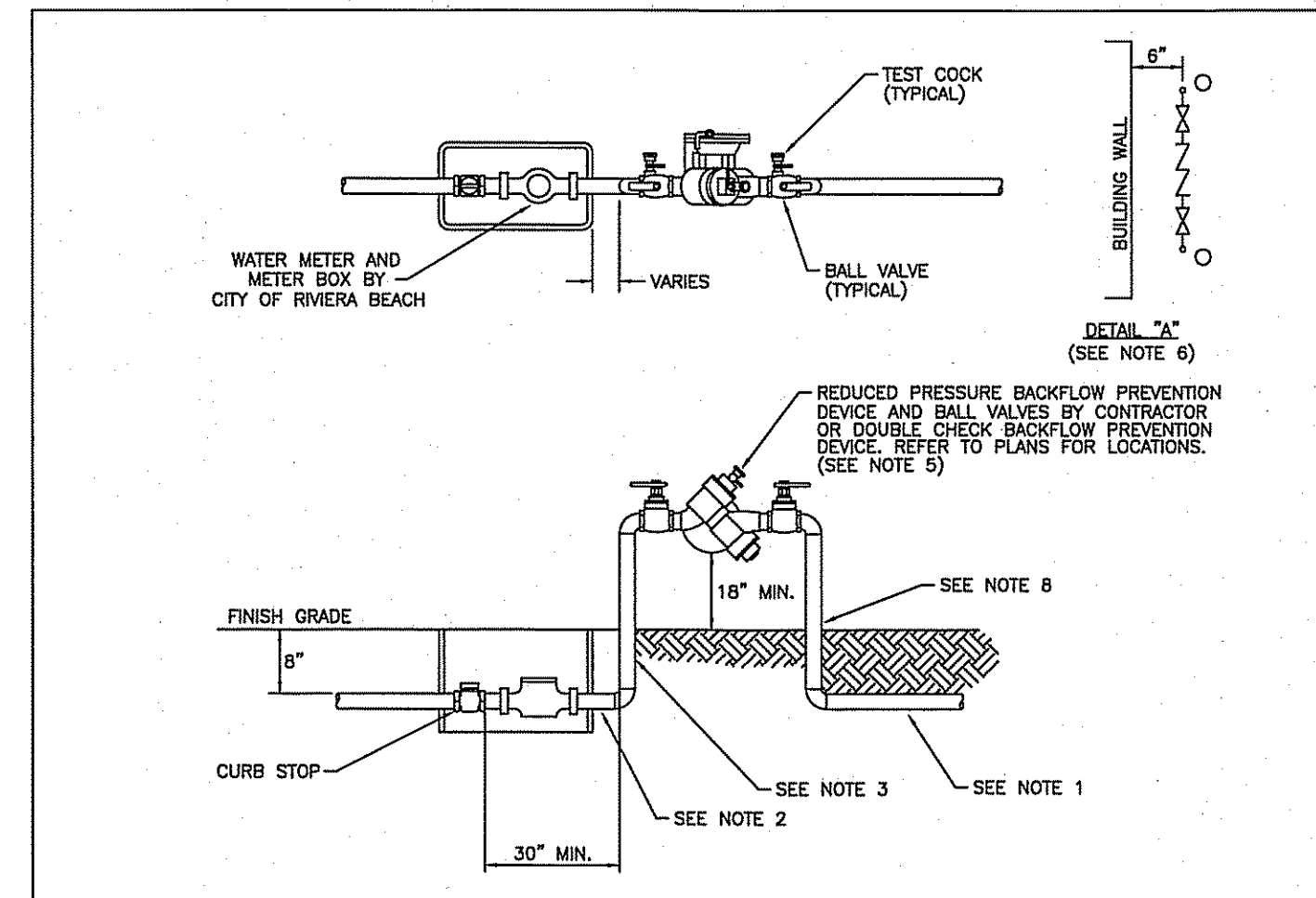
Water & Sewer Details
 City of Riviera Beach
 Utility District



- NOTES:**
- SERVICE LATERALS SHALL TERMINATE AT PROPERTY LINE AT A DEPTH OF 3 FEET.
 - CLEANOUT CONNECTION TO BE EXTENDED 3 FEET ABOVE GRADE PRIOR TO WATER METER INSTALLATION.
 - CLEANOUTS ARE TO BE SET TO GRADE PRIOR TO WATER METER ACTIVATION.
 - NO 90° BENDS SHALL BE PERMITTED FOR SEWER SERVICE AND CLEANOUT INSTALLATION.

TYPICAL LATERAL CONNECTIONS
 N.T.S. 5/27/05

Water & Sewer Details
 City of Riviera Beach
 Utility District



- NOTES:**
- TYPE "K" COPPER TUBING (SOFT DRAWN) OR POLYETHYLENE TUBING SDR 9 COPPER TUBE SIZE.
 - IF THIS DISTANCE IS LESS THAN 3 FEET ONLY COPPER TUBING SHALL BE PERMITTED.
 - 3/4" - 2" BOTH RISERS SHALL BE TYPE "K" COPPER TUBING (HARD DRAWN) WITH COPPER/BRASS SOLDER FITTINGS AND ADAPTERS. ONLY LEAD FREE SOLDER AND FLUX SHALL BE PERMITTED.
 - BOTH 1 1/2" AND 2" ANGLE METER STOPS SHALL BE EQUIPPED WITH LOCKING CAPS AND METER FLANGES.
 - ALL BACKFLOW PREVENTION DEVICES ASSEMBLY MUST BE USC APPROVED.
 - WHEN THE DEVICE IS INSTALLED PARALLEL TO A BUILDING WALL THERE SHALL BE A MIN. OF 6" BETWEEN THE EDGE OF THE DEVICE AND THE BUILDING WALL.
 - 2 1/2" - 10" THE RPZ BACKFLOW PREVENTION ASSEMBLY MUST BE INSTALLED DOWNSTREAM OF THE WATER SERVICE METER 18" - 24" ABOVE FINISHED GRADE ON NON-GALVANIZED METAL PIPE. WORK DONE ON THIS DEVICE MUST BE PERFORMED BY A CERTIFIED BACKFLOW TECHNICIAN AND TEST REPORTS MUST BE SUBMITTED TO THE CITY OF RIVIERA BEACH - UTILITY DISTRICT.

RPZ BACKFLOW PREVENTION DEVICE
 06/27/05

Water & Sewer Details
 City of Riviera Beach
 Utility District

FILLING & FLUSHING DETAIL
 N.T.S. 05/26/05

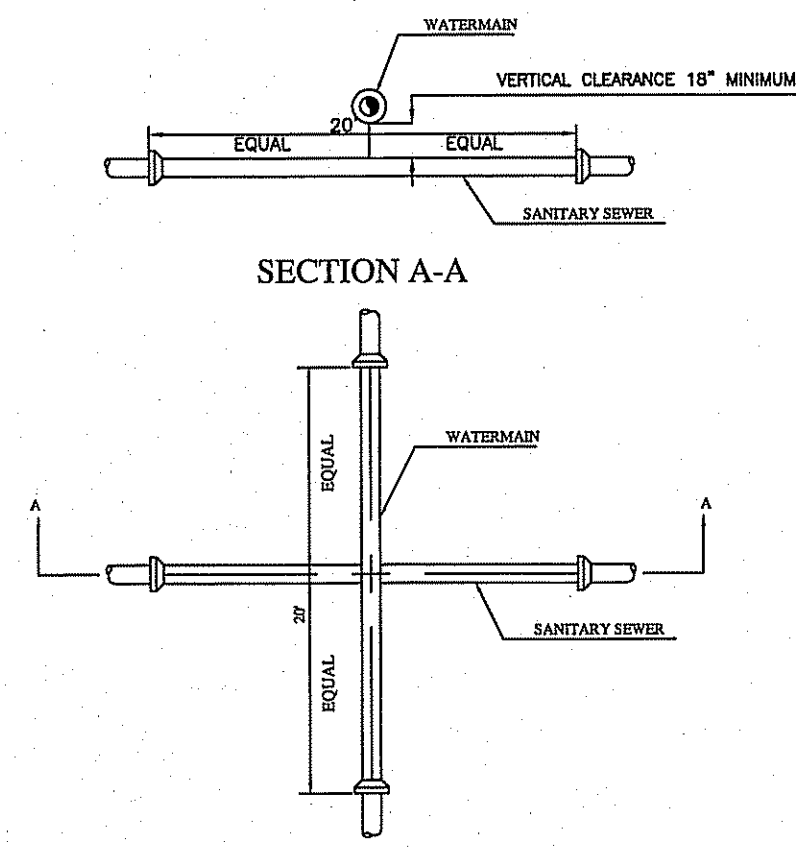
Water & Sewer Details
 City of Riviera Beach
 Utility District

NO.	DATE	REVISIONS	BY

DATE	DESIGNED BY	RECORD DRAWING DATA	BY

CRAB POT SITE WATER AND SEWER DETAIL SHEET			
SOUTHERN DESIGN GROUP, INC.			
ENGINEERING, PLANNING & PROJECT MANAGEMENT 609 NORTH HERRING AVENUE, SUITE 204 JUPITER, FLORIDA 33458 561-743-0501			
DRAWN	EB45142	DATE	JOB NO.
DESIGNED	9/16	9/16	15027
CHECKED		SCALE	

MARK A. WILLIAMS P.E. # 54944	SEAL
SHEET 6 OF 7	

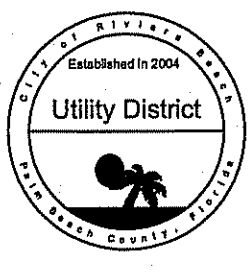


SEWER-WATER MAIN CROSSING DETAIL

STANDARD WATER AND SEWER SEPARATION STATEMENT

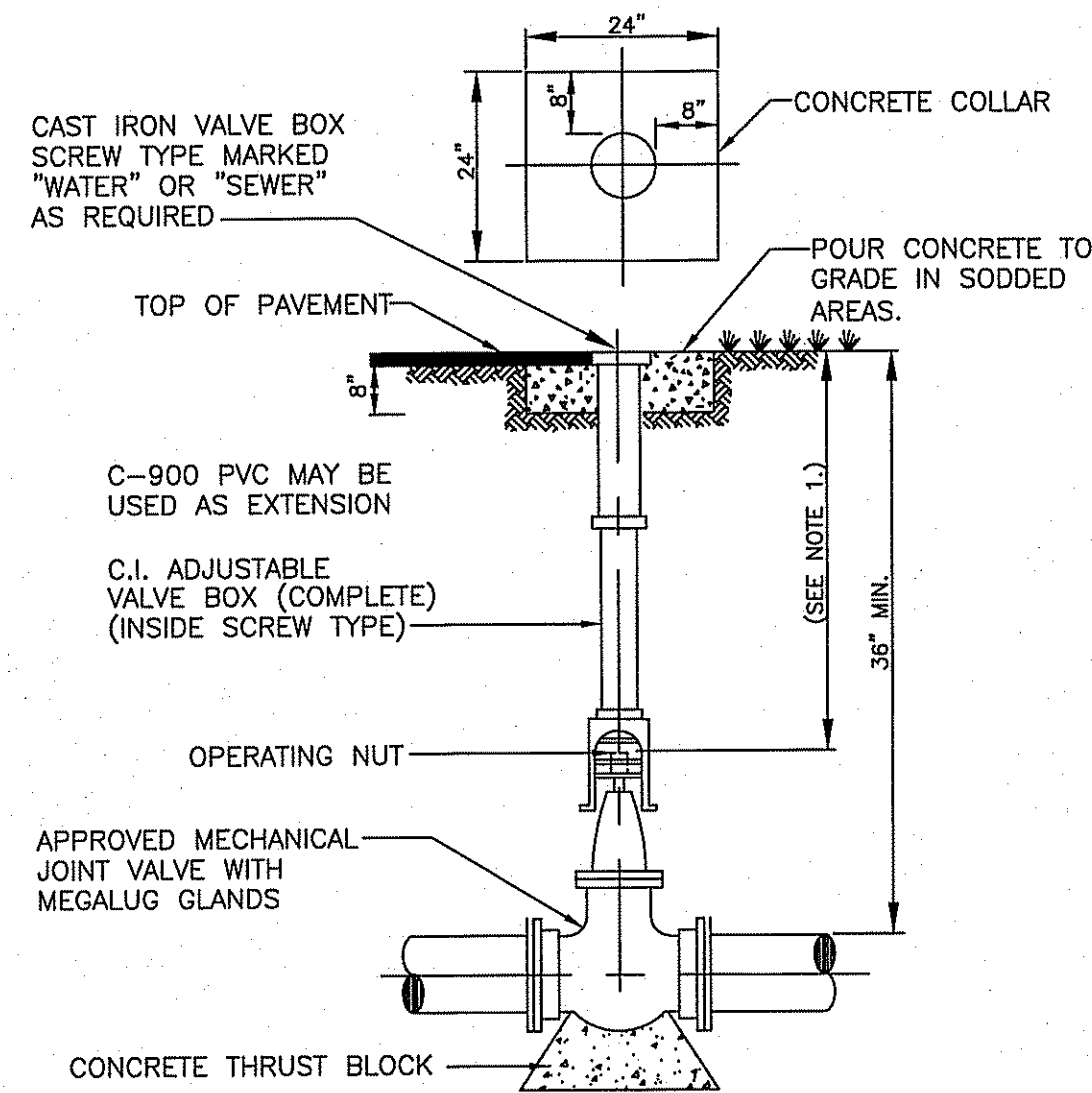
- STORM AND SANITARY SEWER CROSSING UNDER WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF SIX (6) INCHES (12" PREFERRED) BETWEEN THE INVERT OF THE UPPER PIPE AND THE LOWER PIPE. WHERE THIS MINIMUM SEPARATION CANNOT BE MAINTAINED, THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND WATER MAIN JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN TEN (10) FEET BETWEEN ANY TWO JOINTS AND BOTH PIPES SHALL BE D.I.P. WHERE THERE IS NOT ALTERNATIVE TO SEWER PIPES CROSSING OVER A WATER MAIN, THE CRITERIA FOR MINIMUM SEPARATION BETWEEN LINES AND JOINTS IN THE ABOVE, SHALL BE REQUIRED AND BOTH PIPES SHALL BE D.I.P. IRRESPECTIVE OF SEPARATION.
- MAINTAIN TEN (10) FEET HORIZONTAL DISTANCE BETWEEN WATER MAIN AND STORM OR SANITARY SEWER MAIN, AS A MINIMUM.
- FORCE MAIN CROSSING WATER MAIN SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF TWELVE (12) INCHES BETWEEN THE OUTSIDE OF THE FORCE MAIN AND OUTSIDE OF THE WATER MAIN WITH WATER MAIN CROSSING OVER THE FORCE MAIN.

05/27/05



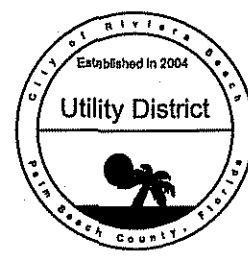
Water & Sewer Details

City of Riviera Beach
Utility District



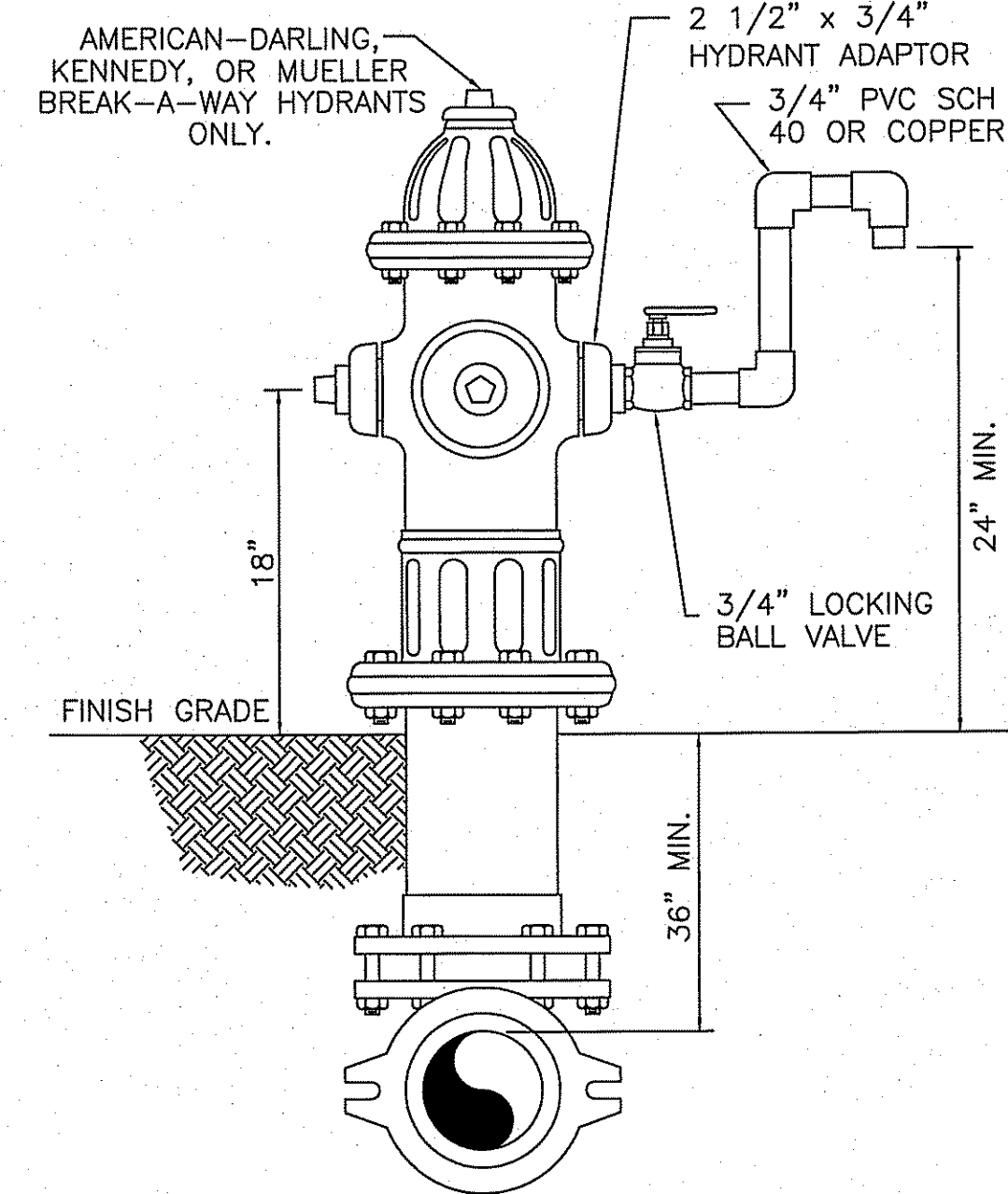
- NOTES:
- WHEN OPERATING NUT IS DEEPER THAN 36" AN EXTENSION WILL BE REQUIRED TO BRING OPERATING NUT 24"-30" BELOW FINISHED GRADE. EXTENSION BOLTS & NUTS ARE TO BE STAINLESS STEEL. A STAINLESS STEEL CENTERING PLATE, WELDED TO THE EXTENSION, IS ALSO REQUIRED.
 - VALVE BOXES SHALL HAVE LOCKING COVERS IN HIGH TRAFFIC ROADWAY AREAS.

TYPICAL GATE VALVE SETTINGS
N.T.S. 05/31/05

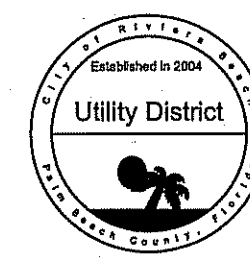


Water & Sewer Details

City of Riviera Beach
Utility District



SAMPLE POINT (HYDRANT)
N.T.S. 05/27/05



Water & Sewer Details

City of Riviera Beach
Utility District

CITY OF RIVIERA BEACH

WATER AND SEWER AS-BUILTS

CERTIFICATION
Certified as-builts are to be provided by a State of Florida Licensed Land Surveyor. Certified as-builts shall accurately reflect all field design revisions made during the construction process. All required as-built information shall be clearly shown on the original design drawings approved for construction by the City of Riviera Beach. A new set of AutoCad prepared drawings and digital files (.dwg format) showing the overall water and/or sewer system layout along with the property or subdivision boundaries must be submitted which are based upon the as-built information. In either case, each sheet of the as-built plans shall include the following statement along with the professional surveyor's stamp and date of expiration of said stamp. The stamp shall be signed and the expiration date filled in. The statement should be located in the bottom left hand corner of the as-built drawing whenever possible.

Professional PLS Stamp,
Expiration Date &
Signature

ACCEPTABLE FORMAT:

- Coordinate values in State Plane Coordinate System, NAD 1983 Florida East FIPS 0901 (Foot)
- All elevations will be based on NGVD29

MINIMUM AS-BUILT REQUIREMENTS:

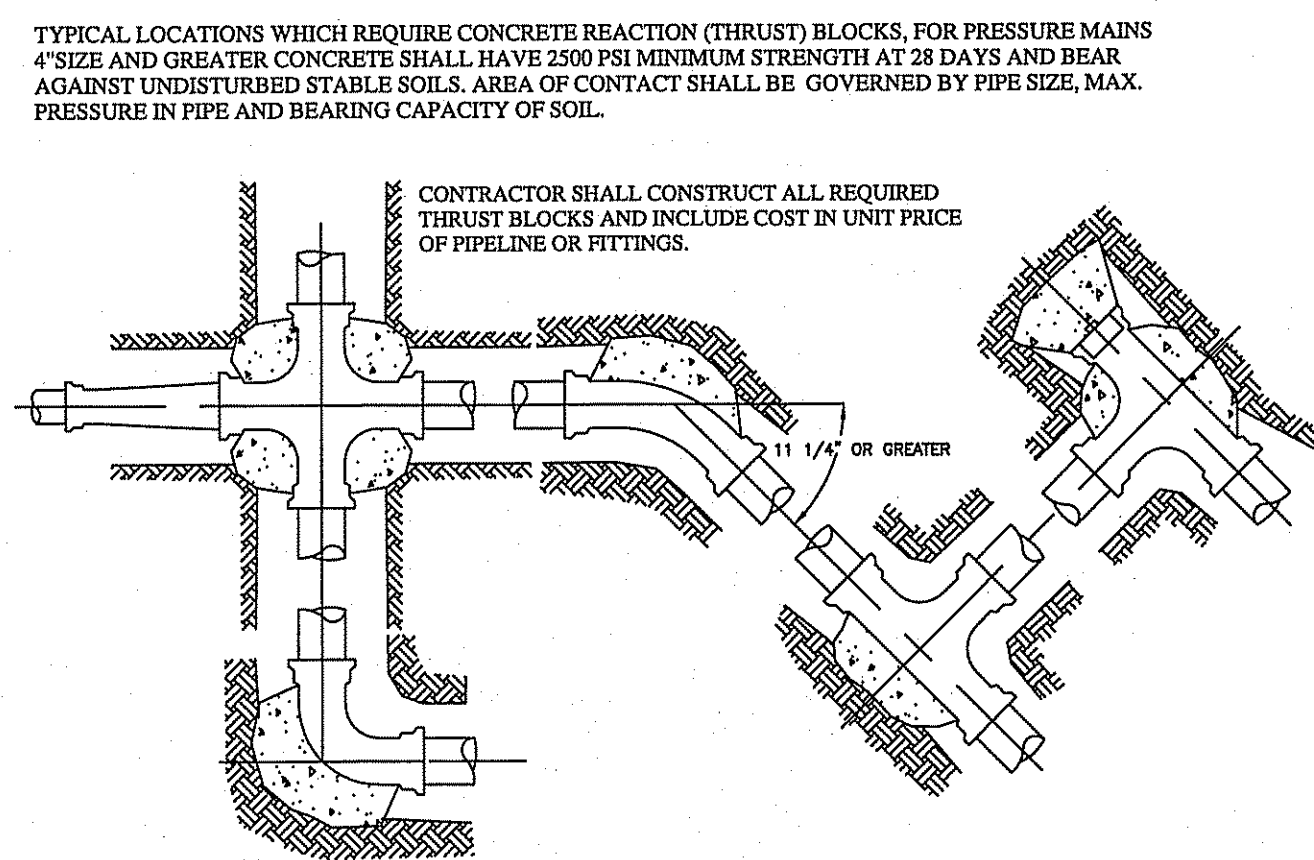
The following as-built requirements are intended to provide a guide as to the minimum criteria for Developers, Engineers of record, and Licensed Land Surveyors, and should be used along with good engineering and surveying practices for the type of project and as the situation warrants.

GENERAL:

Identify and show on the "As-Built Plans" all existing or abandoned utilities that were encountered during construction that were not shown on the design plans or that were shown on the design plans incorrectly.

The preferred method to show locations (both for proposed construction and as-builts) is by the use of survey lines or centerlines between existing survey monuments with

SHEET 1 OF 2

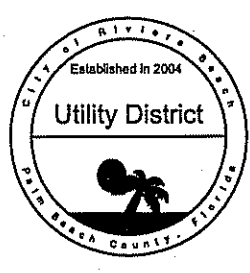


PIPE	THRUST BLOCK AREA REQ'D	PIPE	THRUST BLOCK AREA REQ'D	REMARKS
4"	2.0 SQ. FT.	18"	30.0 SQ. FT.	VALUES ARE FOR 90° BENDS BASED ON 2000 PSF SAFE BEARING LOAD AND PIPE PRESSURE OF 150 PSI PLUS 33% SAFETY FACTOR FOR OTHER SOILS & PRESSURES THE AREA REQUIRED IS IN DIRECT PROPORTION
6"	4.0 SQ. FT.	20"	37.0 SQ. FT.	
8"	6.6 SQ. FT.	24"	53.0 SQ. FT.	
10"	10.0 SQ. FT.	27"	80.0 SQ. FT.	
12"	14.0 SQ. FT.	30"	98.0 SQ. FT.	
14"	18.6 SQ. FT.	36"	127.0 SQ. FT.	
16"	24.0 SQ. FT.			

NOTE: FOR OTHER FITTINGS USE FOLLOWING FACTORS

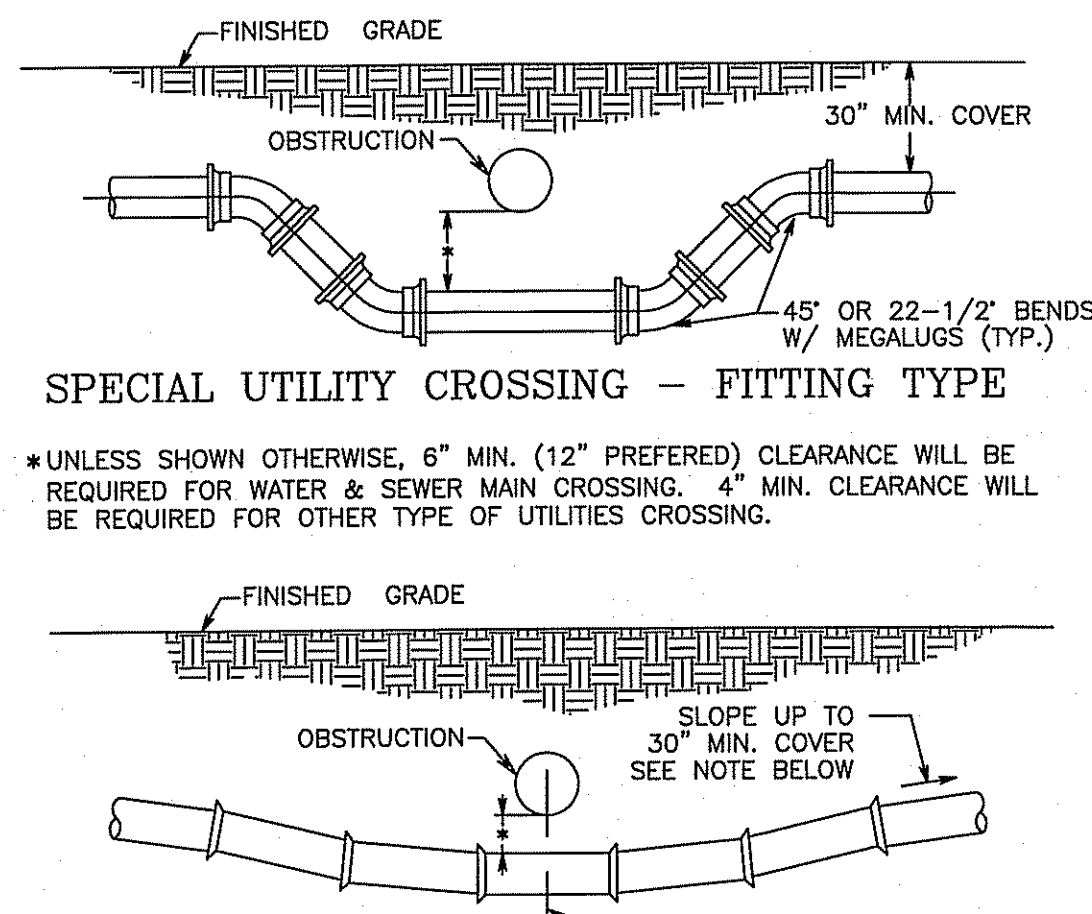
- TEE 100%
- 45° BEND 76%
- 22 1/2° BEND 39%
- 11 1/4° BEND 20%
- DEAD END 100%

CONCRETE THRUST BLOCKS
N.T.S. 05/27/05



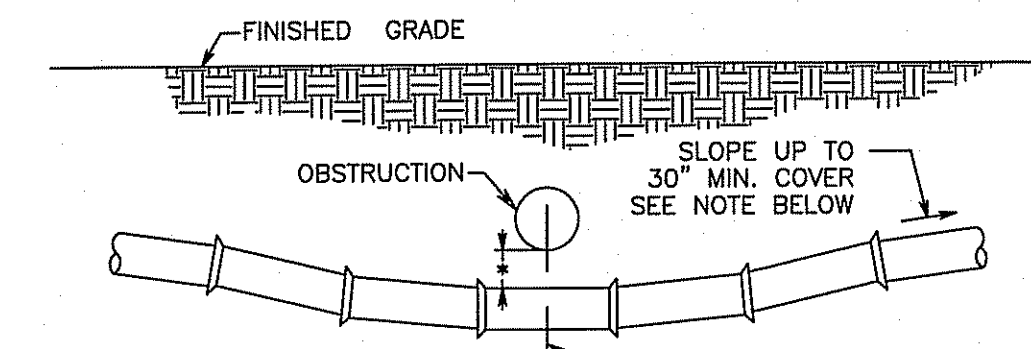
Water & Sewer Details

City of Riviera Beach
Utility District



SPECIAL UTILITY CROSSING - FITTING TYPE

*UNLESS SHOWN OTHERWISE, 6" MIN. (12" PREFERRED) CLEARANCE WILL BE REQUIRED FOR WATER & SEWER MAIN CROSSING. 4" MIN. CLEARANCE WILL BE REQUIRED FOR OTHER TYPE OF UTILITIES CROSSING.

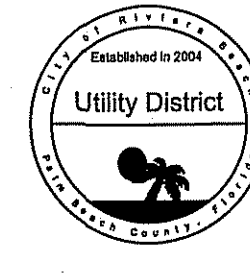


SPECIAL UTILITY CROSSING - DEFLECTION TYPE

NOTES:

- THE DEFLECTION TYPE CROSSING SHALL BE USED WHERE EVER POSSIBLE. ONLY UNDER SPECIFIC ORDERS BY THE ENGINEER SHALL THE FITTING TYPE CROSSING BE ALLOWED.
- CONSTRUCT STANDARD CROSSING USING 75% OF MANUFACTURERS MAXIMUM JOINT DEFLECTION (MAX.).
- ALL MECHANICAL JOINTS MEGALUG
- FITTINGS TO BE RESTRAINED WITH RETURN GLANDS AND EITHER THRUST BLOCKS OR TIE RODS.
- ALL EXPOSED TIE RODS SHALL BE COATED WITH COAL TAR EPOXY.

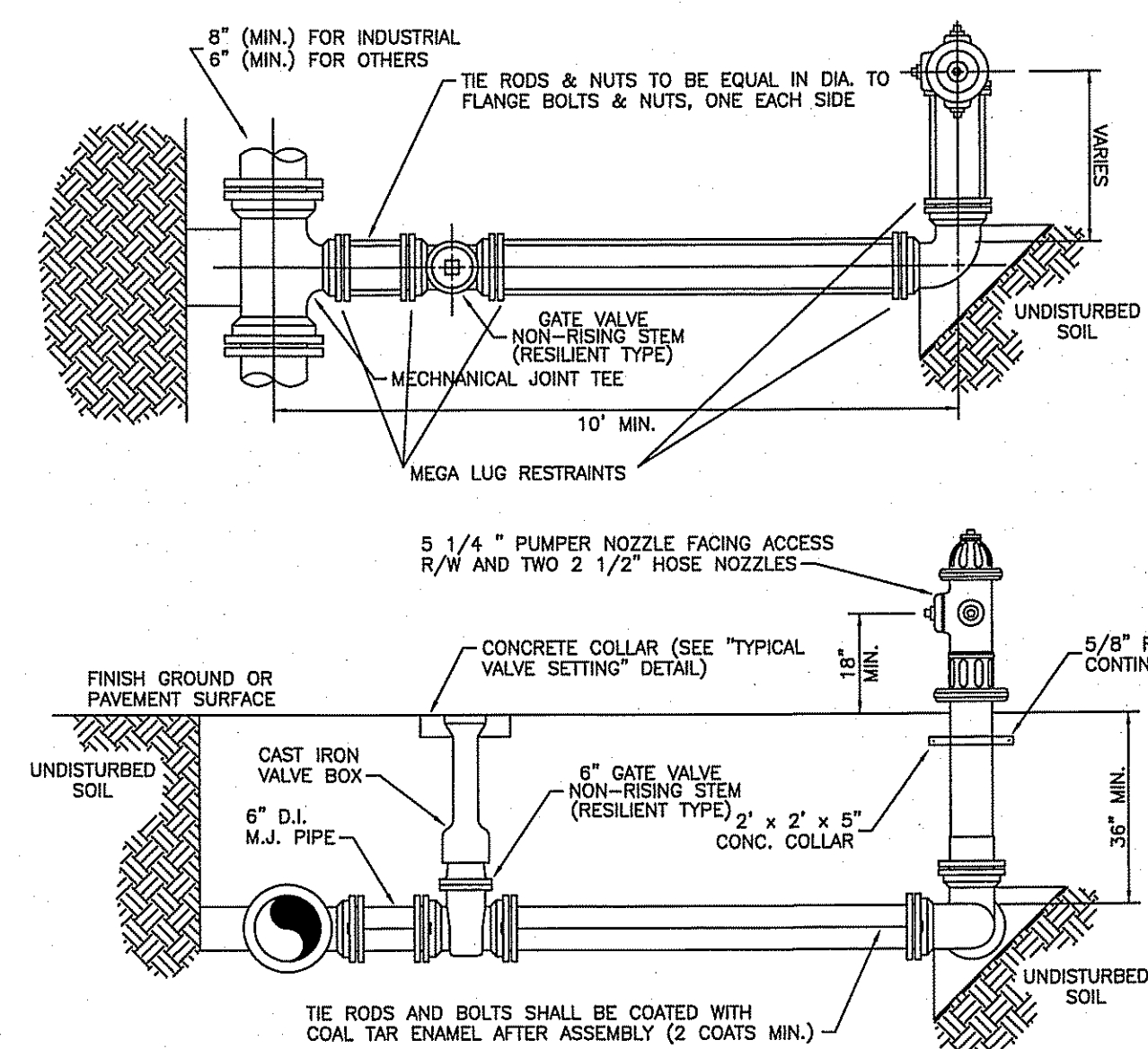
FORCE MAIN CROSSING
N.T.S. 05/31/05



Water & Sewer Details

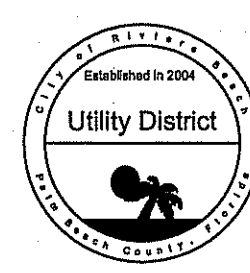
City of Riviera Beach
Utility District

*REVISED TO COMPLY WITH SEPARATION CRITERIA PER FAC AS INDICATED ON SHEET 17.



- NOTES:
- HYDRANTS SHALL BE INSTALLED PLUMB AND TRUE.
 - HYDRANTS SHALL BE PAINTED PER CITY OF RIVIERA BEACH STANDARDS: RED BODY REFLECTIVE AND WHITE CAP REFLECTIVE.
 - HEEL AND THRUST BLOCKS TO REST IN UNDISTURBED SOIL.
 - THE ONLY FIRE HYDRANTS ACCEPTABLE ARE:
A) KENNEDY
B) AMERICAN-DARLING
C) MUELLER BREAK-A-WAY

5. MUST USE MEGA LUG RESTRAINTS
FIRE HYDRANT INSTALLATION DETAIL
N.T.S. 05/27/05



Water & Sewer Details

City of Riviera Beach
Utility District

SHEET 1 OF 2

suitable distances (or stations) and offsets given relative to these lines.

The use of assumed elevations is not acceptable, although the Utilities Department may at its option accept depths measured with respect to the top of existing pavement surfaces, in lieu of actual elevations, depending on the scope of the proposed project.

In addition, the following information shall be shown/corrected on the "As-Built Plans":

SANITARY SEWER PROJECTS:

- Manholes: locations, types, rim and invert elevations.
- Sewer Lines: locations, materials, lengths, slopes, diameters, elevations along the top of the pipe at 100 foot maximum intervals, diameter and locations of side sewer tees and stubouts, and invert elevations.
- Side Sewer Lines: tee locations, materials, lengths, slopes, diameter, invert elevations, and depths of buried stubouts.
- Public Utility Easements: legal descriptions, widths, and location of sanitary appearances within the easement.
- TV Reports: if required comparison of side sewer locations shown on sewer line as-builts with the TV reports.

WATER SYSTEM PROJECTS:

- Water Main Pipes: locations, materials, depths or elevations at 100 foot maximum intervals and at all utility crossings, lengths, and diameters.
- Water Valves: locations, types, alignment, and depth or elevation.
- Fire Hydrants: locations, sizes, and alignment.
- Blow-offs: locations, sizes, and alignment.
- Air and Vacuum Relief Valves: locations, vault sizes, depths, and alignment.
- Pressure Reducing Valve: location, vault size, depth, alignment, and as-constructed clearances within vault.
- Water Main Blocking: location and approximate volume/bearing surface area.
- Water Meters: location and size.
- Water Service Lines: Corp location, materials, diameter, lengths, depth, and stubout location.
- Detailed or Complex Connections: as applicable for situation.
- Fire Flow Lines: location, materials, diameter, location and size of detector vault, and any revisions made to detector appearances during construction.

SHEET 2 OF 2

DATE	APPROVED CONTRACTOR	RECORD DRAWING DATA	BY	MARK A. WILLIAMS P.E. # 34944
				SEAL
				SHEET 7 OF 7
				CRAB POT SITE WATER AND SEWER DETAIL SHEET
				SOUTHERN DESIGN GROUP, INC.
				ENGINEERING, PLANNING & PROJECT MANAGEMENT 609 NORTH HEPBURN AVENUE, SUITE 204 JUPITER, FLORIDA 33458 561-743-0501
NO.	DATE	REVISIONS	BY	SCALE
				1:50



October 26, 2018

Mr. Kenneth A. Blair
Seven Kings Holdings, Inc.
630 Maplewood Drive
Suite 100
Jupiter, Florida 33458

Re: Crab Pot Site - #PTC16-065

Dear Mr. Blair:

The purpose of this letter is to provide additional traffic operation information related to the Crab Pot Site, and specifically the intersection of Blue Heron Boulevard and Lakeshore Drive. A Concurrency Traffic Impact Statement was prepared on August 31, 2016 and approved by Palm Beach County on September 26, 2016. The subject site is in the TCEA (Transportation Concurrency Exception Area) and will continue to have driveways onto the service loop road under the bridge. Therefore, an updated approval letter is not necessary at this time. The Palm Beach County approval is still valid due to the fact that an application for a Site Specific Development Order has been submitted.

The counts on the access road were conducted on March 15 and 16, 2018. They are quite low, with a maximum of 40 per hour in the PM peak hour. Traffic counts were also obtained from Palm Beach County for the intersection of Blue Heron Boulevard and Lakeshore Drive. Intersection analyses were conducted using the Highway Capacity Software (HCS), a commonly used and accepted traffic engineering tool.

Based on the HCS analyses, the AM and PM peak hours are currently operating at Level of Service (LOS) C. The County's adopted level of service standard for roads and intersections is D. The analyses were conducted again in the PM peak hour with additional traffic from background growth and the proposed restaurant. The AM peak hour was not re-analyzed because the restaurant is closed in the morning. For the restaurant traffic, it was estimated that some of the patrons would drive directly to the restaurant and some of the patrons would self-park in the various parking areas to the north of the intersection. The results of this analysis indicate that the PM peak hour will continue to operate at LOS C.

Mr. Kenneth Blair

Re: Crab Pot Site - #PTC16-065

October 26, 2018

Page 2

In summary:

- 1) This restaurant project has a valid Palm Beach County approval, and
- 2) After construction of the restaurant, the Blue Heron Boulevard and Lakeshore Drive intersection is projected to continue to operate at LOS C, which is within the adopted standards.

If you have any questions, please do not hesitate to contact this office.

Sincerely,



Rebecca J. Mulcahy, P.E.
Vice President



September 26, 2016

Jeff Gagnon
Planning and Zoning Administrator
City of Riviera Beach
600 W. Blue Heron Boulevard
Riviera Beach, FL 33404

**Department of Engineering
and Public Works**

P.O. Box 21229
West Palm Beach, FL 33416-1229
(561) 684-4000
FAX: (561) 684-4050
www.pbcgov.com



**Palm Beach County
Board of County
Commissioners**

- Mary Lou Berger, Mayor
- Hal R. Valeche, Vice Mayor
- Paulette Burdick
- Shelley Vana
- Steven L. Abrams
- Melissa McKinlay
- Priscilla A. Taylor

County Administrator

Verdenia C. Baker

*"An Equal Opportunity
Affirmative Action Employer"*

**RE: Crab Pot Site
Project #: 160911
TRAFFIC PERFORMANCE STANDARDS REVIEW**

Dear Jeff:

The Palm Beach County Traffic Division has reviewed the **Crab Pot Site** Trip Generation Statement prepared by Pinder Troutman Consulting, Inc., dated August 31, 2016, pursuant to the Traffic Performance Standards in Article 12 of the Palm Beach County Unified Land Development Code (ULDC). The project is summarized as follows:


Municipality: City of Riviera Beach
Location: North of E. Blue Heron Boulevard and approximately 500' east of Lake Shore Drive
PCN #: 56-43-42-28-00-003-0090
Existing Uses: Vacant
Proposed Uses: 4,486 SF of high turnover sit-down restaurant
Access: One ingress-only and one egress-only driveway connecting the service loop road under the bridge
New Net Daily Trips: 326
New Net PH Trips: 28 AM (15/13) and 25 PM (15/10)
Build-Out: December 31, 2020

Based on our review, the Traffic Division has determined the proposed development is located within Riviera Beach TCEA and meets the Traffic Performance Standards of Palm Beach County.

Please note the receipt of a Traffic Performance Standards (TPS) approval letter does not constitute the review and issuance of a Palm Beach County Right-of-Way (R/W) Construction Permit nor does it eliminate any requirements that may be deemed as site related. For work within Palm Beach County R/W, a detailed review of the project will be provided upon submittal for a R/W permit application. The project is required to comply with all Palm Beach County standards and may include R/W dedication.

No building permits are to be issued by the City after the build-out date specified above. The approval letter shall be valid no longer than one year from date of issuance, unless an application for a Site Specific Development Order has been approved, an application for a Site Specific Development Order has been submitted, or the approval letter has been superseded by another approval letter for the same property.

If you have any questions regarding this determination, please contact me at 684-4030 or email to qyuan@pbcgov.org.

Sincerely,

Quan Yuan, P.E.
Professional Engineer
Traffic Division

QY/dd
ec: Addressee
Rebecca J. Mulcahy, P.E. – Pinder Troutman Consulting, Inc.
Quazi Bari, P.E., Professional Engineer – Traffic Division
Steve Bohovsky, Technical Assistant III - Traffic Division

File: General - TPS - Mun - Traffic Study Review
F:\TRAFFIC\MMT\MUNICIPALITIES\APPROVALS\2016\160911 - CRAB POT SITE.DOC

RECEIVED

716-C10-85
L7416ES
06C-18(10)

UTILITY PERMIT

17-H-496-0195-93080 ST. 19 - PERMIT

PERMIT NO.:	SECTION NO.:93080	STATE ROAD A-1-A	COUNTY Palm Beach
FDOT construction is proposed or underway.		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is this work related to an approved Utility Work Schedule?		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
PERMITTEE:	City of Riviera Beach Utility District		
ADDRESS:	600 West Blue Heron Blvd.		TELEPHONE NUMBER: (561) 845 - 4185
CITY/STATE/ZIP:	Riviera Beach, FL 33404		
The above PERMITTEE requests permission from the State of Florida Department of Transportation, hereinafter called the FDOT, to construct, operate and maintain the following: <u>Water and Sewer system on A-1-A. (Loop road under bridge crossing of Intracoastal Waterway)</u>			
FROM:	<u>Crab Pot Restaurant</u>		<u>under Blue heron Bridge</u>
Submitted for the PERMITTEE by:	Contact Information	Signature	Date
Name and Company (Typed or Printed Legibly)	Address/Telephone/E-Mail (if applicable)		
Mark A. Williams, P.E. Southern Design Group, Inc.	609 North Hepburn Avenue, Suite 204, Jupiter, FL 33458 / 561-743-0501 / markw@sdgcivil.com		4/8/17

- The Permittee declares that prior to filing this application, the location of all existing utilities that it owns or has an interest in, both aerial and underground, are accurately shown on the plans and a letter of notification was mailed on Sept 9, 2016 to the following utilities known to be involved or potentially impacted in the area of the proposed installation:
Consolidated, FP&L, AT&T, FL Public Utilities
- The local Maintenance or Resident Engineer, hereafter referred to as the FDOT Engineer, shall be notified a minimum of forty eight (48) hours in advance prior to starting work and again immediately upon completion of work. The FDOT's Engineer is D. T. D'ROUIN Telephone Number 561-433-4466
The Permittee's employee responsible for MOT is D. H. BIRD Telephone Number 561-433-4466 (This name may be provided at the time of the forty eight (48) hour advance-notice prior to starting work).
- All work, materials, and equipment shall be subject to inspection and approval by the FDOT Engineer.
- All plans and installations shall conform to the requirements of the FDOT's UAM in effect as of the date this permit is approved by FDOT, and shall be made a part of this permit. This provision shall not limit the authority of the FDOT under Paragraph 8 of this Permit.
- This Permittee shall commence actual construction in good faith within 180 days after issuance of permit, and shall be completed within 180 days after the permitted work has begun. If the beginning date is more than sixty (60) days from the date of permit approval, the Permittee must review the permit with the FDOT Engineer to make sure no changes have occurred to the Transportation Facility that would affect the permitted construction.
- The construction and maintenance of such utility shall not interfere with the property and rights of a prior Permittee.
- It is expressly stipulated that this permit is a license for permissive use only and that the placing of utilities upon public property pursuant to this permit shall not operate to create or vest any property right in said holder, except as provided in executed subordination and Railroad Utility Agreements.
- Pursuant to Section 337.403, Florida Statutes, any utility placed upon, under, over, or along any public road or publicly owned rail corridor that is found by FDOT to be unreasonably interfering in any way with the convenient, safe, or continuous use, or maintenance, improvement, extension, or expansion, of such public road or publicly owned rail corridor shall, upon thirty (30) days written notice to the utility or its agent by FDOT, be removed or relocated by such utility at its own expense except as provided in Section 337.403(1), Florida Statutes, and except for reimbursement rights set forth in previously executed subordination and Railroad Utility Agreements, and shall apply to all successors and assigns for the permitted facility.
- It is agreed that in the event the relocation of said utilities are scheduled to be done simultaneously with the FDOT's construction work, the Permittee will coordinate with the FDOT before proceeding and shall cooperate with the FDOT's contractor to arrange the sequence of work so as not to delay the work of the FDOT's contractor, defend any legal claims of the FDOT's contractor due to delays caused by the Permittee's failure to comply with the approved schedule, and shall comply with all provisions of the law and the FDOT's current UAM. The Permittee shall not be responsible for delay beyond its control.
- In the case of non-compliance with the FDOT's requirements in effect as of the date this permit is approved, this permit is void and the facility will have to be brought into compliance or removed from the R/W at no cost to the FDOT, except for reimbursement rights set forth in previously executed subordination and Railroad Utility Agreements. This provision shall not limit the authority of the FDOT under Paragraph 8 of this Permit.
- It is understood and agreed that the rights and privileges herein set out are granted only to the extent of the State's right, title and interest in the land to be entered upon and used by the Permittee, and the Permittee will, at all times, and to the extent permitted by law, assume all risk of and indemnify, defend, and save harmless the State of Florida and the FDOT from and against any and all loss, damage, cost or expense arising in any manner on account of the exercise or attempted exercises by said Permittee of the aforesaid rights and privileges.
- During construction, all safety regulations of the FDOT shall be observed and the Permittee must take measures, including placing and the display of safety devices that may be necessary in order to safely conduct the public through the project area in accordance with the Federal MUTCD, as amended by the UAM.
- Should the Permittee be desirous of keeping its utilities in place and out of service, the Permittee, by execution of this permit acknowledges its present and continuing ownership of its utilities located between _____ and _____ within the FDOT's R/W as set forth above. Whenever the Permittee removes its facilities, it shall be at the Permittee's sole cost and expense. The Permittee, at its sole expense, shall promptly remove said out of service utilities whenever the FDOT determines said removal is in the public interest.
- In the event contaminated soil is encountered by the Permittee or anyone within the permitted construction limits, the Permittee shall immediately cease work and notify the FDOT. The FDOT shall notify the Permittee of any suspension or revocation of the permit to allow contamination assessment and remediation. Said suspension or revocation shall remain in effect until otherwise notified by FDOT.
- For any excavation, construction, maintenance, or support activities performed by or on behalf of the FDOT, within its R/W, the Permittee may be required by the FDOT or its agents to perform the following activities with respect to a Permittee's facilities: physically expose or direct exposure of underground facilities, provide any necessary support to facilities and/or cover, de-energize or alter aerial facilities as deemed necessary for protection and safety.

17-H-496-0195-93080

UTILITY PERMIT

- 16. Pursuant to Section 337.401(2), Florida Statutes, the permit holder to be responsible for damage resulting from the issuance of the permit. The FDOT may initiate injunctive proceedings as provided in s. 120.69 to enforce provisions of this subsection or any rule or order issued or entered into pursuant thereto.
- 17. Pursuant to Section 337.402, Florida Statutes, when any public road or publicly owned rail corridor is damaged or impaired in any way because of the installation, inspection, or repair of a utility located on such road or publicly owned rail corridor, the owner of the utility shall, at his or her own expense, restore the road or publicly owned rail corridor to its original condition before such damage. If the owner fails to make such restoration, the authority is authorized to do so and charge the cost thereof against the owner under the provisions of s. 337.404.
- 18. The Permittee shall comply with all provisions of Chapter 556, Florida Statutes, Underground Facilities Damage Prevention and Safety Act.
- 19. Special FDOT instructions:

SEE ATTACHMENT "A"

It is understood and agreed that commencement by the Permittee is acknowledgment and acceptance of the binding nature of all the above listed permit conditions and special instructions.

- 20. By receipt of this permit, the Permittee acknowledges responsibility to comply with Section 119.07, Florida Statutes.
- 21. By the below signature, the Permittee hereby represents that no change to the FDOT's standard Utility Permit form, as incorporated by reference into Rule 14-46.001, for this Utility Permit has been made which has not been previously called to the attention of the FDOT (and signified to by checking the appropriate box below) by a separate attached written document showing all changes and the written and dated approval of the FDOT Engineer. Are there attachments reflecting change/s to the standard form? NO YES If Yes, _____ pages are attached.

PERMITTEE	City of Riviera Beach Utility District Leighton C. Walker, Utilities Engineer	SIGNATURE		DATE:	4/13/17
	Name & Title of Authorized Permittee or Agent (Typed or Printed Legibly)				
APPROVED BY:				ISSUE DATE:	6/1/17
	District Maintenance Engineer or Designee				

UTILITY PERMIT FINAL INSPECTION CERTIFICATION

DATE:	
DATE WORK STARTED:	
DATE WORK COMPLETED:	
INSPECTED BY:	
(Permittee or Agent)	
CHANGE APPROVED BY:	DATE:
District Maintenance Engineer or Designee	

I the undersigned Permittee do hereby CERTIFY that the utility construction approved by the above numbered permit was inspected and installed in accordance with the approved plans made a part of this permit and in accordance with the FDOT's current UAM. All plan changes have been approved by the FDOT's Engineer and are attached to this permit. I also certify that the work area has been left in as good or better condition than when the work was begun.

PERMITTEE:	SIGNATURE:	DATE:
Name & Title of Authorized Permittee or Agent (Typed or Printed Legibly)		

CC: District Permit Office
Permittee

**SPECIAL PROVISIONS/CONDITIONS
UTILITY PERMITS
DIRECTIONAL & JACK & BORES
ATTACHMENT "A"**

All new or replaced underground facilities within the Right of Way shall be made electronically detectable using techniques available in the industry.

It is the Permittee's responsibility to obtain final acceptance of permitted work (completed) and the restoration of the Right of Way from the Department prior to usage.

Permittee will restore the Right of Way as a minimum, to its original condition or better in accordance w/FDOT's Standard Specifications for Road & Bridge Construction or as directed by the Resident Operations Engineer.

Permittee will ensure that all locates have been performed prior to scheduling of any permitted work activities. This shall include soft digs to verify vertical & horizontal alignment.

All maintenance of traffic (MOT) will be in accordance with the Department's current edition of the Design Standards, (600 series). The Operations Engineer or his designee reserves the right to direct the removal/relocation/modification of any traffic device(s) at the Permittee's sole expense.

Restricted hours of operation will be from 9:00 am to 3:30 pm, (Monday thru Friday), unless otherwise approved by the Operations Engineer, or designee.

Permit is valid for six (6) months from the date of issue.

Permittee shall use the current editions of the Department's Design Standards, Standard Specifications for Road and Bridge Construction and applicable manuals, policies and procedures.

PERMITTEE: PLEASE NOTE:

Permittee's contractors that are performing permitted work activities shall provide the Department (Permits Office) proof of a proper state contractor's license and certificate of liability insurance prior to any commencement of permitted work.

All HDPE conduit used for traffic signals or other electrically powered or operated traffic control devices, shall use a Standard Dimension Ratio of 11 (SDR 11).

Permittee shall "step cut" both the base rock and the structural asphalt. "Step Cut" for base rock shall be 8" vertical by 12" horizontal.

Permittee shall coordinate all work with David Moore of Broadspectrum @ 954-317-8044 or email: david.moore@broadspectrum.com

Permittee will provide the Department with certified "As-Built" plans prior to final acceptance of the permitted work.

Permittee shall mill (min depth of 1 5/8") and resurface the affected lanes for a longitudinal distance of 50' in each direction. The replaced pavement type will be of the same or similar type and depth as that removed, except where permission is given by the Local Resident Operations Engineer.

Ownership of all suitable excavated materials, as determined by the Department, shall remain in the Department until a final acceptance of the permitted project is fulfilled. Excavated materials shall be hauled by the Permittee, at their cost & expense from the site to the PB Operations Center or stockpiled in those areas as directed by the Department, including asphalt millings.

Permittee will provide the necessary densities in accordance w/Section 125-8 of the Standard Specifications for Road & Bridge Construction, (latest edition) prior to final acceptance by the Department.

Sodded areas will be in accordance with Standard Index 105 and Sections 162, 575, 981, 982, 983 of the Department's Standard Specifications (latest editions). All disturbed areas will be sodded within one (1) week of installation of said permitted work.

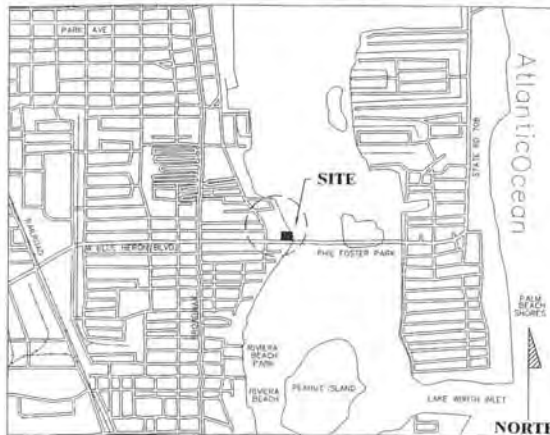
Permittee shall provide the Producer's Certification (Delivery Ticket) for the NS Concrete-2500 PSI (used for Sidewalk, Curb & Gutter, Ditch Pavement and Traffic Separator) prior to final acceptance by the Department. The delivery ticket shall certify the concrete was batched, delivered and placed in accordance with Section 347 of the Department's Standard Specifications for Road and Bridge Construction (current edition).

Permittee shall restore roadway patch to match exist asphalt thickness (3" minimum, however, the greater amount shall apply) of SP 12.5 over 15" of limerock base on 12" compacted subgrade.

CRAB POT SITE PROPOSED RESTAURANT

LOCATED IN THE
CITY OF RIVIERA BEACH
(PALM BEACH COUNTY, FLORIDA)

WATER, SEWER, PAVING AND DRAINAGE CONSTRUCTION PLANS



LOCATION MAP

SECTION 28, TOWNSHIP 42 SOUTH, RANGE 43 EAST
(PALM BEACH COUNTY, FLORIDA)

PREPARED FOR:
SEVEN KINGS HOLDINGS, INC.
630 MAPLEWOOD DRIVE, SUITE 100
JUPITER, FLORIDA 33458
561-625-9443

SEPTEMBER 2016

PREPARED BY:
SOUTHERN DESIGN GROUP, INC.
609 NORTH HEPBURN AVENUE, SUITE 204
JUPITER, FLORIDA 33458
561-743-0501
EB# 5142

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	PAVING & DRAINAGE PLAN
3	WATER AND SEWER PLAN
4-6	PAVING AND DRAINAGE DETAILS
7-8	WATER AND SEWER DETAILS
8A	SEWER LINE LINING SPECIFICATIONS

GOVERNING SPECIFICATIONS:
THE FLORIDA DEPARTMENT OF TRANSPORTATION,
STANDARD SPECIFICATIONS FOR ROAD & BRIDGE
CONSTRUCTION DATED 2017 AND THE FLORIDA
DEPARTMENT OF TRANSPORTATION DESIGN
STANDARDS DATED 2016-2017 OR THE LATEST
EDITIONS.

ATTENTION IS DIRECTED TO THE FACT THAT
THESE PLANS MAY HAVE BEEN ALTERED IN SIZE
BY REPRODUCTION. THIS MUST BE CONSIDERED
WHEN OBTAINING SCALE DATA.

A copy of this permit and plans will be
on the Job site at all times during the
construction of this facility

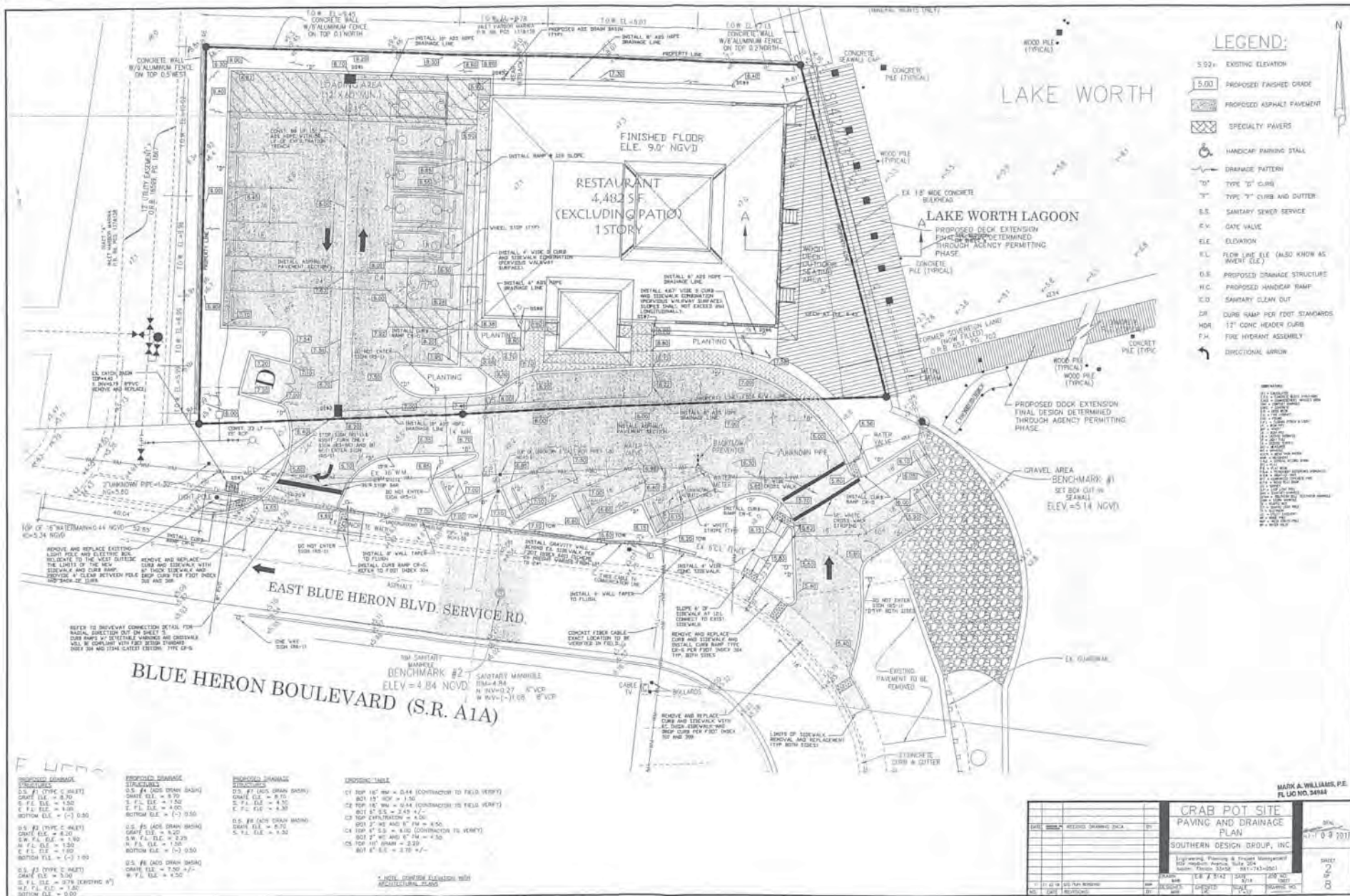
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17-H-496-0195-93080

MARK A. WILLIAMS, P.E.
FL LIC NO. 34544

APR 9 2016

CRAB POT SITE
JOB NO. 15027
SHEET 1 OF 8



- LEGEND:**
- 5.92' EXISTING ELEVATION
 - 5.00' PROPOSED FINISHED GRADE
 - PROPOSED ASPHALT PAVEMENT
 - SPECIALTY PAVERS
 - HANDICAP PARKING STALL
 - DRAINAGE PATTERN
 - 10" TYPE "D" CURB
 - 7" TYPE "D" CURB AND OUTER
 - SANITARY SEWER SERVICE
 - GATE VALVE
 - ELEVATION
 - KL FLOOR LINE ELEV. (ALSO KNOW AS SPENT ELEV.)
 - D.S. PROPOSED DRAINAGE STRUCTURE
 - H.C. PROPOSED HANDICAP RAMP
 - I.C.O. SANITARY CLEAN OUT
 - DR CURB RAMP PER FOOT STANDARDS
 - HDR 12" CONC. HEADER CURB
 - F.H. FIRE HYDRANT ASSEMBLY
 - DIRECTIONAL ARROW

REVISIONS:

NO.	DATE	DESCRIPTION
1	01/11/2011	ISSUED FOR PERMITTING
2	01/11/2011	ISSUED FOR PERMITTING
3	01/11/2011	ISSUED FOR PERMITTING
4	01/11/2011	ISSUED FOR PERMITTING
5	01/11/2011	ISSUED FOR PERMITTING
6	01/11/2011	ISSUED FOR PERMITTING
7	01/11/2011	ISSUED FOR PERMITTING
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15	01/11/2011	ISSUED FOR PERMITTING
16	01/11/2011	ISSUED FOR PERMITTING
17	01/11/2011	ISSUED FOR PERMITTING
18	01/11/2011	ISSUED FOR PERMITTING
19	01/11/2011	ISSUED FOR PERMITTING
20	01/11/2011	ISSUED FOR PERMITTING

BLUE HERON BOULEVARD (S.R. A1A)

BENCHMARK #2
ELEV = 4.84 NGVD

SANITARY MANHOLE
ELEV = 4.84 NGVD

SANITARY MANHOLE
ELEV = 4.84 NGVD

PROPOSED DRAINAGE STRUCTURES:

NO.	TYPE	GRADE ELEV.	INVERT ELEV.	WIDTH	DEPTH
D.S. #1	TYPE C (4x6)	8.50	7.50	4'-0"	3'-0"
D.S. #2	TYPE C (4x6)	8.50	7.50	4'-0"	3'-0"
D.S. #3	TYPE C (4x6)	8.50	7.50	4'-0"	3'-0"
D.S. #4	TYPE C (4x6)	8.50	7.50	4'-0"	3'-0"
D.S. #5	TYPE C (4x6)	8.50	7.50	4'-0"	3'-0"
D.S. #6	TYPE C (4x6)	8.50	7.50	4'-0"	3'-0"
D.S. #7	TYPE C (4x6)	8.50	7.50	4'-0"	3'-0"
D.S. #8	TYPE C (4x6)	8.50	7.50	4'-0"	3'-0"
D.S. #9	TYPE C (4x6)	8.50	7.50	4'-0"	3'-0"
D.S. #10	TYPE C (4x6)	8.50	7.50	4'-0"	3'-0"
D.S. #11	TYPE C (4x6)	8.50	7.50	4'-0"	3'-0"
D.S. #12	TYPE C (4x6)	8.50	7.50	4'-0"	3'-0"
D.S. #13	TYPE C (4x6)	8.50	7.50	4'-0"	3'-0"
D.S. #14	TYPE C (4x6)	8.50	7.50	4'-0"	3'-0"
D.S. #15	TYPE C (4x6)	8.50	7.50	4'-0"	3'-0"
D.S. #16	TYPE C (4x6)	8.50	7.50	4'-0"	3'-0"
D.S. #17	TYPE C (4x6)	8.50	7.50	4'-0"	3'-0"
D.S. #18	TYPE C (4x6)	8.50	7.50	4'-0"	3'-0"
D.S. #19	TYPE C (4x6)	8.50	7.50	4'-0"	3'-0"
D.S. #20	TYPE C (4x6)	8.50	7.50	4'-0"	3'-0"

NO.	DATE	DESCRIPTION	BY	CHECKED
1	01/11/2011	ISSUED FOR PERMITTING		
2	01/11/2011	ISSUED FOR PERMITTING		
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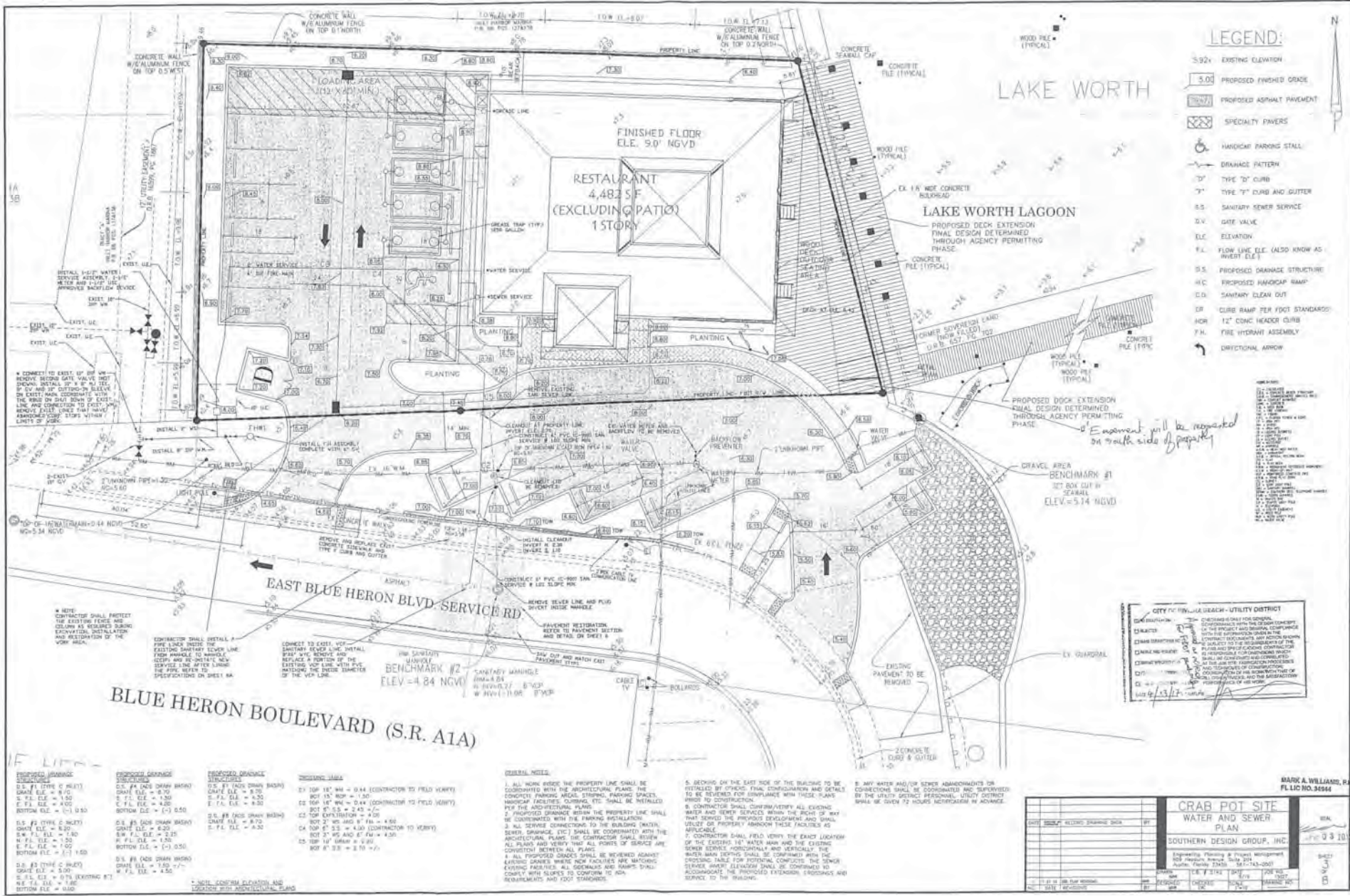
MARK A. WILLIAMS, P.E.
FL LIC NO. 34848

CRAB POT SITE
PAVING AND DRAINAGE PLAN

SOUTHERN DESIGN GROUP, INC.

Engineering, Planning & Project Management
100 Madison Avenue, Suite 200
Miami, Florida 33138 305-743-0801

DATE: 01/11/2011
SCALE: AS SHOWN
PROJECT: CRAB POT SITE
SHEET NO. 2 OF 8



- LEGEND:**
- 5.92x EXISTING ELEVATION
 - 3.00 PROPOSED FINISHED GRADE
 - PROPOSED ASPHALT PAVEMENT
 - SPECIALTY PAVERS
 - HANDICAP PARKING STALL
 - DRAINAGE PATTERN
 - TYPE "D" CURB
 - TYPE "T" CURB AND GUTTER
 - SS SANITARY SEWER SERVICE
 - GV GATE VALVE
 - ELC ELEVATION
 - F.L. FLOW LINE E.L. (ALSO KNOW AS INVERT E.L.)
 - SS PROPOSED DRAINAGE STRUCTURE
 - HC PROPOSED HANDICAP RAMP
 - EDC SANITARY CLEAN OUT
 - CR CURB RAMP PER FOOT STANDARDS
 - DR 12" CONC HEADOR CURB
 - F.H. FIRE HYDRANT ASSEMBLY
 - ↷ DIRECTIONAL ARROW

CITY OF PALM BEACH - UTILITY DISTRICT

CONTRACTOR SHALL VERIFY ALL UTILITIES AND RECORD THEM AS SHOWN ON THE PLANS. ANY CHANGES TO THE UTILITIES SHALL BE REPORTED TO THE UTILITY DISTRICT IMMEDIATELY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE UTILITY DISTRICT. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL UTILITIES AT ALL TIMES. ANY DAMAGE TO UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES. ANY VIOLATION OF THESE CONDITIONS SHALL BE PENALIZED AS PROVIDED IN THE CITY OF PALM BEACH UTILITIES DISTRICT REGULATIONS.

DATE: 12/12/2012

BLUE HERON BOULEVARD (S.R. A1A)

PROPOSED DRAINAGE STRUCTURES

S.S. #1 (TYPE C INLET)
 GRADE E.L. = 8.10
 S.F.L. E.L. = 8.50
 E.F.L. E.L. = 8.00
 BOTTOM E.L. = (-) 0.50

S.S. #2 (TYPE C INLET)
 GRADE E.L. = 8.30
 S.F.L. E.L. = 8.70
 E.F.L. E.L. = 8.20
 BOTTOM E.L. = (-) 1.50

S.S. #3 (TYPE C INLET)
 GRADE E.L. = 8.00
 S.F.L. E.L. = 8.40
 E.F.L. E.L. = 7.90
 BOTTOM E.L. = (-) 1.50

S.S. #4 (TYPE C INLET)
 GRADE E.L. = 8.20
 S.F.L. E.L. = 8.60
 E.F.L. E.L. = 8.10
 BOTTOM E.L. = (-) 1.50

PROPOSED DRAINAGE STRUCTURES

S.S. #5 (1400 OMAN BASIN)
 GRADE E.L. = 8.70
 S.F.L. E.L. = 1.50
 E.F.L. E.L. = 4.00
 BOTTOM E.L. = (-) 0.50

S.S. #6 (1400 OMAN BASIN)
 GRADE E.L. = 8.20
 S.F.L. E.L. = 2.25
 E.F.L. E.L. = 1.50
 BOTTOM E.L. = (-) 0.50

S.S. #7 (1400 OMAN BASIN)
 GRADE E.L. = 1.50 +/-
 S.F.L. E.L. = 4.50
 E.F.L. E.L. = 1.50
 BOTTOM E.L. = (-) 0.50

PROPOSED DRAINAGE STRUCTURES

S.S. #8 (1400 OMAN BASIN)
 GRADE E.L. = 8.70
 S.F.L. E.L. = 1.50
 E.F.L. E.L. = 4.00
 BOTTOM E.L. = (-) 0.50

S.S. #9 (1400 OMAN BASIN)
 GRADE E.L. = 8.20
 S.F.L. E.L. = 2.25
 E.F.L. E.L. = 1.50
 BOTTOM E.L. = (-) 0.50

S.S. #10 (1400 OMAN BASIN)
 GRADE E.L. = 1.50 +/-
 S.F.L. E.L. = 4.50
 E.F.L. E.L. = 1.50
 BOTTOM E.L. = (-) 0.50

EXISTING UTILITIES

E1 TOP 18" W4 = 0.44 (CONTRACTOR TO FIELD VERIFY)
 BOT 18" W4 = 1.50

E2 TOP 18" W4 = 0.44 (CONTRACTOR TO FIELD VERIFY)
 BOT 18" W4 = 1.50

E3 TOP EXPANSION
 BOT 2" W4 = 2.42 +/- 0.20

E4 TOP 6" S3 = 4.30 (CONTRACTOR TO VERIFY)
 BOT 6" S3 AND 6" W4 = 4.50

E5 TOP 10" W4 = 2.00
 BOT 6" S3 = 2.10 +/-

GENERAL NOTES

1. ALL WORK UNDER THE PROPERTY LINE SHALL BE COORDINATED WITH THE ARCHITECTURAL PLANS, THE CONCRETE FINISHING AREA, STRIPING, PARKING SPACES, MANHOLES, FACILITIES, CURBS, ETC. SHALL BE INSTALLED PER THE ARCHITECTURAL PLANS.
2. PROPOSED DRAINAGE WITHIN THE PROPERTY LINE SHALL BE COORDINATED WITH THE PARKING INSTALLATION.
3. ALL SERVICE CONNECTIONS TO THE BUILDING (WATER, SEWER, SERVICE, ETC.) SHALL BE COORDINATED WITH THE ARCHITECTURAL PLANS. THE CONTRACTOR SHALL VERIFY ALL PLANS AND VERIFY THAT ALL POINTS OF SERVICE ARE CORRECTLY IDENTIFIED ON ALL PLANS.
4. ALL PROPOSED SERVICE SHALL BE REVIEWED AGAINST EXISTING SERVICE WHERE NEW FACILITIES ARE MATCHING EXISTING FACILITIES. ALL GENERAL AND SPECIAL COMPLIANCE WITH SLOPES TO CONFORM TO ADA REQUIREMENTS AND COOT STANDARDS.
5. DECKING ON THE EAST SIDE OF THE BUILDING TO BE PROVIDED BY OTHER. FINAL CONDIMNATIONS AND DETAILS TO BE REVIEWED FOR COMPLIANCE WITH THESE PLANS PRIOR TO CONSTRUCTION.
6. CONTRACTOR SHALL CONFIRM/VERIFY ALL EXISTING WATER AND SEWER SERVICES WITHIN THE BOUND OF WAY THAT SERVED THE PROPOSED DEVELOPMENT AND SHALL NOTIFY OR PROPERLY ABANDON THESE FACILITIES AS APPLICABLE.
7. CONTRACTOR SHALL FIELD VERIFY THE EXIST LOCATION OF THE EXISTING 16" WATER MAIN AND THE EXISTING SEWER SERVICE. ADDITIONALLY AND VERTICALLY THE WATER MAIN DEPTHS SHALL BE COMPARED WITH THE EXISTING TABLE FOR POTENTIAL CONFLICTS. THE SEWER SERVICE DEPTH (ELEVATION) SHALL BE COMPARED TO ACCOMMODATE THE PROPOSED EXTENSION. CROSSINGS AND SERVICE TO BE PROVIDED.
8. ANY WATER AND/OR SEWER ADJUSTMENTS OR CONNECTIONS SHALL BE COORDINATED AND PERFORMED BY THE UTILITY DISTRICT PERSONNEL. UTILITY DISTRICT SHALL BE GIVEN 72 HOURS NOTICE PRIOR TO ADVANCE.

GENERAL NOTES

CONTRACTOR SHALL INSTALL A PIPE LINE INTO THE EXISTING SANITARY SEWER LINE. THE EXISTING SANITARY SEWER LINE SHALL BE REPLACED WITH A PORTION OF THE EXISTING PIPE LINE WITH PIPE MATCHING THE ENTIRE CIRCUMETER OF THE VOR LINE.

CONTRACTOR SHALL REMOVE AND REPAIR ALL TYPE "D" CURB AND GUTTER.

CONTRACTOR SHALL REMOVE AND REPAIR ALL TYPE "T" CURB AND GUTTER.

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MARK A. WILLIAMS, P.E.
 FL LIC NO. 36864

DATE	BY	REVISION

CRAB POT SITE
WATER AND SEWER
PLAN

SOUTHERN DESIGN GROUP, INC.

Engineering, Planning & Project Management
 207 Atlantic Avenue, Suite 2100
 Palm Beach, Florida 33480-1100
 Phone: (561) 835-1100 Fax: (561) 835-1101

DATE: 12/12/2012
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 DESIGNED BY: [Signature]

GENERAL NOTES AND SPECIFICATIONS

CLEARING SHALL BE LIMITED TO CONSTRUCTION AREA AND/OR AS DIRECTED BY OWNER OR HIS REPRESENTATIVE. GRUBBING OF ALL STUMPS, BURIED LOGS OR OTHER OBSTRUCTIONABLE MATERIALS SHALL BE TO A DEPTH OF 18 INCHES BELOW NATURAL GROUND. ALL DEBRIS SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF.

OWNER AND CONTRACTOR SHALL COORDINATE TO PROVIDE CONSTRUCTION SURVEY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING BUILDINGS, STRUCTURES, AND UTILITIES THAT ARE UNDER GROUND, ABOVE GROUND, OR ON THE SURFACE AGAINST CONSTRUCTION OPERATIONS THAT MAY BE HAZARDOUS TO SAID FACILITIES AND SHALL HOLD AND SAVE THE OWNER, HIS AGENTS AND/OR CONSULTANTS HARMLESS AGAINST ALL CLAIMS OR DAMAGE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED TESTS AND SHALL SUBMIT REPORTS FOR REVIEW AND APPROVAL. THE TESTS SHALL BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY. PAYMENT FOR TESTING PER CONTRACT WITH OWNER. ANY RETEST FOR FAILURE WILL BE AT THE CONTRACTOR'S EXPENSE.

ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER AND SHALL CONFORM WITH ALL APPLICABLE LOCAL, REGIONAL, STATE AND FEDERAL REGULATIONS AND/OR CODES. THE CONTRACTOR OR SUBCONTRACTORS SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO PROCEEDING WITH CONSTRUCTION. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FEDERAL, STATE, COUNTY AND, IF APPLICABLE, LOCAL MUNICIPAL REGULATIONS, THE LATEST EDITION OF FLORIDA DOT SPECIFICATIONS, DETAILS AND ADDENDA SHALL GOVERN AS APPLICABLE TO THE TYPE OF CONSTRUCTION.

PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL VISUALLY EXAMINE THE SITE OF CONSTRUCTION TO DETERMINE THE AMOUNT OF CLEARING AND EXISTING FACILITIES TO BE PROTECTED, REPLACED, REMOVED AND/OR RELOCATED WHICH MAY BE REQUIRED TO COMMENCE WORK. ALL CONTRACTOR'S SHALL PROTECT EXISTING MARKERS THAT ARE ADJACENT TO THE CONSTRUCTION AREA.

THE CONTRACTOR SHALL COORDINATE PROJECT CONSTRUCTION AND GIVE ADEQUATE NOTIFICATION TO ALL AFFECTED UTILITY OWNERS (IE WATER AND SEWER UTILITY, TRAIL, SD, BELL, CABLE, ETC.) WITH REGARD TO THE NEED FOR REMOVAL, RELOCATION OR ALTERATION OF THEIR EXISTING FACILITIES. UTILITY COMPANIES SHALL BE NOTIFIED 48 HOURS PRIOR TO COMMENCING CONSTRUCTION. CALL SUNSHINE-UTILITY NOTIFICATION CENTER- FOR LOCATION BEFORE EXCAVATION (1-800-432-4750).

THE CONTRACTOR SHALL ALSO COORDINATE AND NOTIFY APPLICABLE UTILITY AGENCY PERSONNEL, AND ENGINEER FOR REQUIRED INSPECTIONS (MIN 48 HR. NOTICE), AND SHALL SUPPLY ANY AND ALL EQUIPMENT NECESSARY TO PROPERLY TEST OR INSPECT THE WORK.

GUARANTY-ALL MATERIAL AND EQUIPMENT TO BE FURNISHED OR INSTALLED BY THE CONTRACTOR(S) UNDER THE CONSTRUCTION CONTRACT FOR THIS PROJECT SHALL BE GUARANTEED AGAINST DEFECTIVE MATERIALS, AND WORKMANSHIP. UPON RECEIPT OF NOTICE FROM THE OWNER OF FAILURE OF ANY PART OF THE INSTALLATION, GUARANTEED EQUIPMENT OR MATERIALS, DURING THE GUARANTY PERIOD, THE AFFECTED PART, PARTS OR MATERIALS SHALL BE REPLACED PROMPTLY WITH THE NEW PARTS OR MATERIALS BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER. IN THE EVENT THE CONTRACTOR FAILS TO MAKE THE NECESSARY REPLACEMENT OR REPAIRS WITHIN SEVEN DAYS AFTER NOTIFICATION BY THE OWNER, THE OWNER MAY ACCOMPLISH THE WORK AT THE EXPENSE OF THE CONTRACTOR.

ALL WORK SHALL BE ACCOMPLISHED IN A SAFE WORKMANLIKE MANNER. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS AND REGULATIONS OF ANY PUBLIC BODY HAVING JURISDICTION FOR THE SAFETY OF PERSONS OR PROPERTY OR TO PROTECT THEM FROM DAMAGE, INJURY OR LOSS, AND SHALL ERECT AND MAINTAIN ALL NECESSARY SAFEGUARDS FOR SUCH SAFETY AND PROTECTION. THE RESPONSIBILITY FOR PROJECT SAFETY RESTS SOLELY AND SPECIFICALLY WITH THE CONTRACTOR. SOUTHERN DESIGN GROUP, INC. THE OWNER, THE REGULATORY AGENCIES AND THEIR EMPLOYEES ARE SPECIFICALLY INDEMNIFIED AND HELD HARMLESS FROM ANY ACTIONS OF THE CONTRACTOR RELATING TO THE SAFETY PROCEDURES IMPLEMENTED DURING CONSTRUCTION AND FOR ANY CLAIMS BROUGHT BY ANY PERSONS REGARDING SAFETY, PERSONAL INJURY OR PROPERTY DAMAGE.

CONTRACTOR SHALL COORDINATE WITH OWNER AND ALL OTHER CONTRACTORS TO ENSURE PROPER CONSTRUCTION SEQUENCE OF PROJECT. THE SEQUENCE OF CONSTRUCTION SHALL BE SUCH THAT ALL UNDERGROUND UTILITIES SHALL BE INSTALLED PRIOR TO PAVEMENT CONSTRUCTION AND OTHER ABOVE GROUND IMPROVEMENTS.

ELEVATIONS- ALL ELEVATIONS REFER TO M.G.V.O.

RECORD DRAWINGS- THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN AND SUBMIT TO ENGINEER A COMPLETE DETAILED SET OF RECORD DRAWING DATA PREPARED BY A REGISTERED FLORIDA SURVEYOR. THE RECORD DRAWINGS SHALL ADHERE TO ANY AND ALL SPECIFIC CRITERIA OF THE WATER AND SEWER UTILITY AND ANY SPECIFICS REQUIRED BY THE ENGINEER.

UNDERGROUND CONTRACTOR SHALL SUBMIT ALL RECORD DATA TO THE ENGINEER FOR HIS REVIEW AND APPROVAL PRIOR TO PAVEMENT AND/OR CURB INSTALLATION. ANY NECESSARY ADJUSTMENT AT THIS TIME WILL BE THE RESPONSIBILITY OF THE UNDERGROUND CONTRACTOR.

FINAL ADJUSTMENT OF MANHOLE RIMS, VALVE BOXES, ETC. THAT ARE WITHIN ANY PAVED AREA, SHALL BE ADJUSTED AT THE TIME THE BASE MATERIAL IS IN PLACE, AND SHALL BE THE RESPONSIBILITY OF THE UNDERGROUND CONTRACTOR.

PAVING CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES. ANY DAMAGE TO THESE STRUCTURES BY THE PAVING CONTRACTOR SHALL BE THE PAVING CONTRACTOR'S RESPONSIBILITY TO COORDINATE REPAIR.

MATERIALS AND CONSTRUCTION.

ALL CONCRETE SHALL DEVELOP A 28 DAY MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI UNLESS OTHERWISE NOTED. CLASS 1 CONCRETE SHALL CONFORM WITH THE FLORIDA DOT SPECIFICATIONS, LATEST EDITION.

ALL STEEL SHALL BE DOMESTIC GRADE 60 (F70-80 KSI) AND CONFORM TO ASTM A-615 SPECIFICATIONS.

ALL MASONRY UNITS AND GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 1000 PSI AND SHALL MEET ALL MHA SPECIFICATIONS AND RECOMMENDATIONS.

ALL STEEL SPICES, CONSTRUCTION AND PLACEMENT, AND ALL STEEL TIES SHALL CONFORM TO MHA AND ACI PRACTICES AND RECOMMENDATIONS.

IF MUCK IS ENCOUNTERED IN THE ROAD RIGHT-OF-WAY OR ANY OTHER PAVED OR BUILT UP AREAS, IT SHALL BE COMPLETELY REMOVED AND SHALL BE BACKFILLED WITH CLEAN, GRANULAR MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF A REGISTERED FLORIDA SOLE ENGINEER.

IF HARDSHIP IS ENCOUNTERED IN ROAD SIDE SWALES OR ANY AREA DESIGNATED FOR DRAINAGE, IT SHALL BE REMOVED TO A WIDTH OF 2 FEET AT THE SWALE INVERT, OR 3' OUTSIDE OF GRAVAGE AREA, AND SHALL BE COMPLETELY REPLACED WITH GRANULAR MATERIAL.

CONTRACTOR SHALL BE RESPONSIBLE TO PERFORM ALL EXCAVATION IN ACCORDANCE WITH THE DEPARTMENT OF LABOR - OCCUPATIONAL SAFETY AND HEALTH STANDARDS. EXCAVATION - FINAL RULE (29 CFR PART 1926) FORM FEDERAL REGULATIONS, TUESDAY, OCTOBER 31, 1991 AND OSHA 2226 (REV. 1980) EXCAVATION AND TRENCHING STANDARDS.

SUBGRADE-SUBGRADE SHALL BE COMPACTED TO MEET THE DENSITY REQUIREMENTS AS DETERMINED BY THE AASHTO T-180 SPECIFICATIONS. SUBGRADE SHALL EXTEND A MINIMUM OF 12 INCHES BEYOND THE PROPOSED EDGE OF PAVEMENT AND THE ENTIRE DEPTH SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY. ALL STUMPS, ROOTS OR OTHER DELETERIOUS WATERS ENCOUNTERED IN THE PREPARATION OF THE SUBGRADE SHALL BE REMOVED TO A DEPTH OF 3 FEET BELOW THE FINISHED ROAD GRADE. ALL SUCH MATERIAL/MATTER SHALL BE REMOVED WITHIN 6 FEET OF THE EDGE OF FINISHED ROAD. THE SUBGRADE SHALL BE COMPACTED AND STABILIZED AS SHOWN IN THE DETAILS WITH BEARING AND DENSITY DETERMINATIONS TO BE MADE BY THE APPLICABLE LATEST FLORIDA DOT SPECIFICATIONS.

BASE - BASE MATERIAL SHALL BE COMPACTED TO NOT LESS THAN 98% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 SPECIFICATIONS AND AS CALLED FOR IN THE FLORIDA DOT SPECIFICATIONS, LATEST EDITION-SECTION 250. BASE GREATER THAN 6" SHALL BE CONSTRUCTED IN TWO EVEN LIFTS OR 4" INTERVALS AND 6" BEYOND THE EDGE OF PAVEMENT.

PRIME COAT - BITUMINOUS PRIME COAT SHALL CONFORM WITH THE REQUIREMENTS OF THE FLORIDA DOT SPECIFICATIONS, LATEST EDITION-SECTION 300, AND SHALL BE APPLIED AT A RATE OF 0.25 GALLONS PER SQUARE YARD UNLESS OTHERWISE NOTED.

TACK COAT - BITUMINOUS TACK COAT SHALL CONFORM WITH THE REQUIREMENTS OF THE FLORIDA DOT SPECIFICATIONS, LATEST EDITION-SECTION 330 AND SHALL BE APPLIED AT THE MINIMUM RATE OF 0.08 GALLONS PER SQUARE YARD UNLESS OTHERWISE NOTED.

SURFACE COURSE - ASPHALTIC CONCRETE SURFACE COURSE SHALL CONFORM WITH THE REQUIREMENTS OF THE FLORIDA DOT SPECIFICATIONS, LATEST EDITION SECTION 331. THE MINIMUM COMPACTED THICKNESS IS AS NOTED IN PLANS.

INLETS SHALL BE THE TYPE DESIGNATED ON THE PLANS AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH FLORIDA DOT SPECIFICATIONS, LATEST EDITION-SECTION 425, UNLESS OTHERWISE NOTED IN THE PLANS.

CORRUGATED ALUMINUM PIPE (CAP (H)) SHALL BE SMOOTH WALL (INTERIOR) AND CONFORM WITH THE FLORIDA DOT SPECIFICATIONS, LATEST EDITION-SECTION 245. PIPE SHALL BE HELICAL OR HIGH FLOW HAVING THE HYDRAULIC EQUIVALENT OF CONCRETE PIPE. PIPE SIZES ARE AS SHOWN IN THE PLANS. ALL JOINTS IN STORM SEWER PIPE SHALL BE MADE WITH EITHER 1/2 INCH HEURENE OR 1/4 INCH STRIP SEALANT GASKEIT MATERIAL. ALL BENDS SHALL BE 12 INCH RISE. THE PIPE SHALL CONFORM WITH FLORIDA DOT SPECIFICATIONS, LATEST EDITION. CORRUGATED ALUMINUM PIPE SHALL NOT BE CONSTRUCTED UNDER PAVED AREAS, UNLESS OTHERWISE NOTED IN THE PLANS.

REINFORCED CONCRETE PIPE (RCP) SHALL CONFORM WITH THE REQUIREMENTS OF TABLE H OF ASTM D-76 AND WITH THE FLORIDA DOT SPECIFICATIONS, LATEST EDITION-SECTION 941. REQUIREMENTS FOR PIPE BACKFILL SHALL BE AS DEFINED BY FLORIDA DOT SPECIFICATIONS, LATEST EDITION. PIPELINE BACKFILL SHALL BE PLACED AND TESTED IN 6 INCH LIFTS AND COMPACTED TO 100% OF THE STANDARD PROCTOR (MSHA T-99 SPECIFICATIONS).

ALL PIPE JOINTS SHALL BE WRAPPED WITH FILTER FABRIC JACKET IN ACCORDANCE WITH DETAIL INDEX 280.

ALL STREET PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH MUTCO.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND REGULATIONS. TRAFFIC CONTROL SHALL ALSO BE IN ACCORDANCE WITH FLORIDA DOT INDEX 800.

IF WITHIN PALM BEACH COUNTY JURISDICTION, PAVEMENT MARKINGS AND SIGNAGE SHALL BE IN ACCORDANCE WITH THE MUTCO FOR STREETS AND HIGHWAYS AND PALM BEACH COUNTY TYPICAL NO T-P-13. ALL STRIPING IN THE PARKING AREAS AND SITE SHALL CONFORM TO APPLICABLE LOCAL OR COUNTY CODES.

UTILITY CONDUITS/ARRANGING CONDUITS SHALL BE PLACED PER OWNER'S DIRECTIONS AND CLEARLY MARKED AFTER CONSTRUCTION. CONTRACTOR SHALL OBTAIN RECORD DRAWING DATA ON ALL CROSSINGS.

PRE-CONSTRUCTION CONFERENCE.

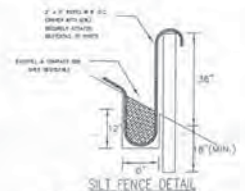
A PRECONSTRUCTION CONFERENCE WITH THE OWNER, ENGINEER, CONTRACTORS AND ANY INVOLVED PARTIES WILL BE SCHEDULED BY THE OWNER PRIOR TO THE INITIATION OF CONSTRUCTION.

MINIMUM CONSTRUCTION CHECKPOINTS

THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR HIS REPRESENTATIVE FOR AN INSPECTION OF THE FOLLOWING CHECK POINTS INCLUDING BUT NOT LIMITED TO:
-PRIOR TO ANY MAJOR DEVIATIONS FROM THE APPROVED PLANS.
-PRIOR TO BACKFILLING ANY HYDRAULIC CONDUITS OR STRUCTURES-UPON COMPLETION OF SUBGRADE CONSTRUCTION.
-UPON COMPLETION OF BASE CONSTRUCTION-CONCRETE POURS FOR Poured IN PLACE STRUCTURES-LAMPING OF ALL SANITARY MAINS -PRIOR TO WATER MAIN FLUSHING.
-PRESSURE TESTING OF WATER MAINS -PRIOR TO ANY CONNECTION TO EXISTING FACILITIES.
NOTE: ANY TESTS OR OBSERVATIONS REQUIRED BY THE UTILITY COMPANY OR REGULATORY AGENCIES THAT ARE IN ADDITION TO THE ABOVE SHALL BE COMPLIED WITH.

SITE COORDINATION NOTES

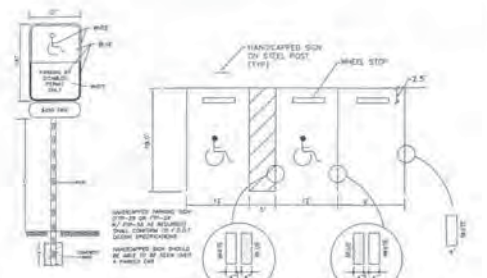
GENERAL NOTES (AS APPLICABLE)
- CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL CONDUITS AND UNDERGROUND LINES FOR IRRIGATION, ELECTRIC, PHONE, ETC. WITH THE PAVING AND GRAVAGE FACILITIES TO ASSURE THAT THE LINES AREA INSTALLED PRIOR TO THE INSTALLATION OF THE PAVEMENT STRUCTURE.
- CONTRACTOR SHALL COMPLETE ALL SITE GRADING PRIOR TO THE INSTALLATION OF LANDSCAPING.
- GRASSING AND SOODING SHALL BE IN ACCORDANCE WITH LANDSCAPE PLANS.
- CONTRACTOR SHALL PROTECT POWER POLES, GUY WIRES, ETC FROM DAMAGE DURING CONSTRUCTION. ANY CONFLICTS WITH THE PROPOSED IMPROVEMENTS SHALL BE COORDINATED DIRECTLY WITH THE AFFECTED UTILITY COMPANY. CONTRACTOR TO COORDINATE DIRECTLY WITH UTILITY COMPANY FOR SECURING POLES DURING CONSTRUCTION, AS NEEDED.
- STRIPING SHALL BE IN ACCORDANCE WITH CURRENT FPC CODES AND CONTRACTOR SHALL VERIFY STRIPING REQUIREMENTS FOR ALL STRIPPED AREAS PRIOR TO STRIPING.
- ALL LATCH BASINS SHALL HAVE CLEAN MURKAT FILTER FABRIC PLACED ON THEM AND ANY AND ALL CONTRACTORS SHALL TAKE ALL REQUIRED ACTIONS TO PREVENT SOIL EROSION INTO THE DRAINAGE SYSTEM, MANHOLE RECEIVING WATERS, ETC.
- UPON COMPLETION OF CONSTRUCTION ALL DISTURBED AREAS INCLUDING EXISTING FACILITIES, RIGHTS-OF-WAY, SIDEWALK, LANDSCAPING, ETC SHALL BE FULLY RESTORED.
- UPON COMPLETION OF ANY AND ALL SLOPES WITHIN THE PROJECT, PROTECTION MEASURES SUCH AS SOO, PLANTINGS, AND/OR TEMPORARY FILTER FABRICS SHALL BE INSTALLED TO PREVENT EROSION.



CONCRETE SIDEWALK SECTION DETAIL
NOTE: REFER TO FDOT INDEX 310 FOR ADDITIONAL INFORMATION AND SPECIFICATIONS



CONCRETE WHEEL STOP



HANDICAP PARKING AND STRIPING DETAIL

NOTE: CONTRACTOR TO VERIFY ALL LOCAL STRIPING REQUIREMENTS AND CURRENT ACA AND STRIPING PRIOR TO CONSTRUCTION. IF CURRENT WRITTEN CODE DIFFERS FROM THIS DETAIL, CURRENT WRITTEN CODE SHALL BE ADHERED TO.
VERIFY WITH THE CITY OF RIVERSIDE BEACH

MARK A. WILLIAMS, P.E.
NO. 94844

CRAB POT SITE		PAVING AND DRAINAGE DETAILS	
DATE	ISSUED	REVISED	CHANGED
SOUTHERN DESIGN GROUP, INC. Engineering, Planning & Project Management 9555 Phoenicia Avenue, Suite 200 Jupiter, Florida 33458 (561) 743-0861			
DRAWN	TREY BUCK	SCALE	AS SHOWN
CHECKED	DAVID BROWN	DATE	11/15/11
DESIGNED	DAVID BROWN		
APPROVED	MARK WILLIAMS		

FDOT GENERAL NOTES:

Permittee will coordinate all work with David Moore of BroadSpectrum at 954-317-8044, moored@transfieldservices.com. Coordination will include a Pre-Construction meeting.

All materials and construction within the Florida Department of Transportation Design (F.D.O.T.) right-of-way shall conform to the latest edition F.D.O.T. Design Standards and latest edition Standard Specifications for Road and Bridge Construction.

All maintenance Of Traffic M.O.T. for this project will be in compliance with the Departments current edition of the Design Standards, (600 series) and the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD). The Operations Engineer or his designee reserves the right to direct the removal/relocation/modification of any traffic device(s) at the permittee's sole expense. Special attention will be given to FDOT Design Standard Index 601, 602, 603, and 660.

Permittee shall obtain the necessary lease for parking lot improvements within the Right-of-Way.

Permittee shall have UAO apply and obtain a utility permit from the Department for utility work within the Right-of-Way.

All thermoplastic traffic stripes, markings and signage will be installed per the FDOT Roadway and Traffic Design Standards.

It is the Permittee's responsibility to obtain final acceptance of permitted work (completed) and the restoration of the Right-of-Way from the F.D.O.T. prior to usage.

Permittee will provide the necessary densities in accordance with Section 125-8 of the FDOT Standard Specifications for Road & Bridge Construction (latest edition) prior to final acceptance by the F.D.O.T.

Permittee will restore the Right of Way as a minimum, to its original condition or better in accordance w/F.D.O.T.'s latest Standard Specifications for Road & Bridge Construction or as directed by the Resident Operations Engineer.

During the removal/installation of any curb and gutter section, the permittee will be responsible for any damage done to the abutting asphalt. The damaged asphalt repair will be in accordance with the current specifications and/or as directed by the Resident Operations Engineer.

All public sidewalk curb ramps will meet the Roadway & Traffic Design Standards (current edition) Index No. 304 Curb/Ramp inspections required prior to installation of concrete.

Permittee shall provide the Producer's Certification (Delivery Ticket) for the NS CONCRETE-2500 PSI (used for Sidewalk, Curb & Gutter, Ditch Pavement and Traffic Separator) prior to final acceptance by the Department. The delivery ticket shall certify the concrete was batched, delivered and placed in accordance with Section 347 of the F.D.O.T.'s Standard Specifications for Road and Bridge Construction (current edition).

Sodded areas will be in accordance with Standard Index 105 and sections 162, 981, 982, 983, 987 of the F.D.O.T.'s Standard Specifications for Road and Bridge Construction, latest edition. All disturbed areas will be sodded within one (1) week of installation of said permitted work.

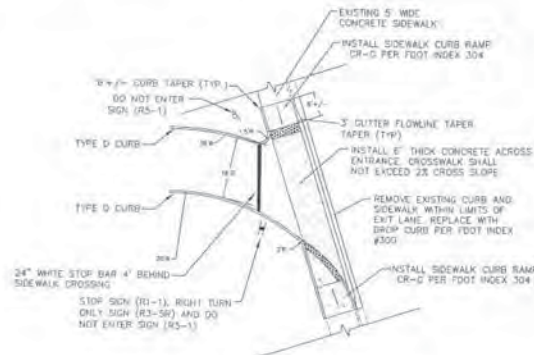
Restricted hours of operation for lane closures will be from 9:00am to 3:30 pm, (Monday-Friday), unless otherwise approved by the Operations Engineer, or designee.

PERMITTEE: PLEASE NOTE:
Permittee's contractors that are performing permitted work activities shall provide the F.D.O.T. (Permit Office) proof of a proper state contractor's license and certificate of liability insurance prior to any commencement of permitted work.

Permittee shall obtain a utility permit from the Department prior to commencing utility work in the FDOT R/W.

PERMIT IS VALID FOR ONE YEAR FROM DATE OF ISSUE.

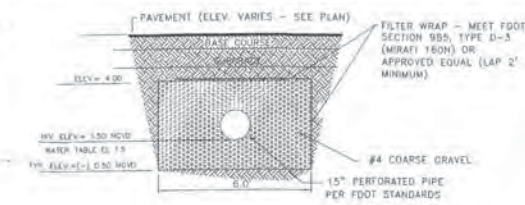
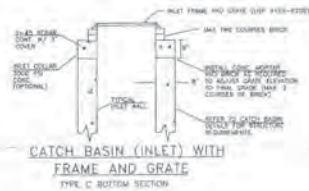
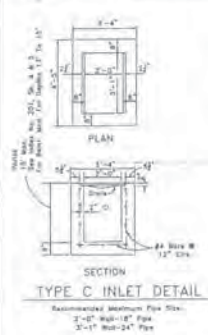
Permittee will provide the F.D.O.T. with certified "AS-Built" plans prior to final acceptance of the permitted work.



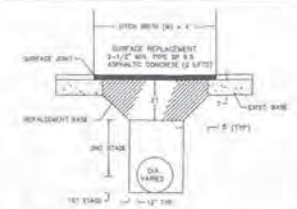
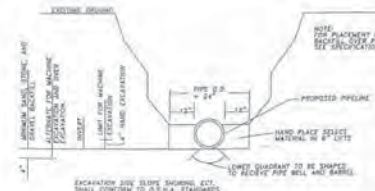
DRIVEWAY CONNECTION DETAIL FOR RADIAL DIRECTION OUT
"CURB RAMPS W/ DETECTABLE WARNINGS AND CROSSWALK WILL BE COMPLIANT WITH FDOT DESIGN STANDARD INDEX 304 AND 17346 (LATEST EDITION). TYPE CR-G.

MARK A. WILLIAMS, P.E.
FL LIC NO. 94944

DATE		REVISION		BY	
CRAB POT SITE PAVING AND DRAINAGE DETAILS SOUTHERN DESIGN GROUP, INC. <small>Engineering, Planning & Project Management 208 Westgate Avenue, Suite 204 Jupiter, Florida 33458 561-743-0201</small>					
DATE	DESCRIPTION	BY	DATE	SCALE	DESIGNED BY



NOTE:
NON-PERFORATED PIPE TO BE INSTALLED 8" FROM STRUCTURE TRENCH TO END 5' FROM STRUCTURE. TERMINATE TRENCH PER F.D.O.T. INDEX NO. 285 FOR ADDITIONAL INFORMATION REFERENCE F.D.O.T. INDEX NO. 285.



DENSITY PROCEDURES:
THE BACKFILL FOR THE FIRST AND SECOND STAGES SHALL BE PLACED IN 8" LAYERS COMPACTED THICKNESS AND SHALL BE COMPACTED TO 100% OF MAXIMUM DENSITY PER AASHTO T-99.

STAGE #1:
THE PERMITTED SHALL PROVIDE ADEQUATE COMPACTED FILL BEDDING TO THE NEIGHBORHOOD OF THE PIPE USING MECHANICAL TAMPS SUITABLE FOR THE PURPOSE. THE EXCAVATION AROUND THE MATERIAL PLACED BENEATH THE PORTLANDS OF THE PIPE AND ABOVE ANY BEDDING REQUIRED.

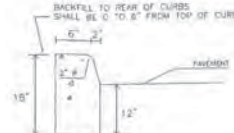
STAGE #2:
THE PORTLANDS SHALL BE BACKFILLED WITH A WELL COMPACTED BED AND FILL ABOVE THE JOINTS OF THE PIPE TO A POINT INDICATING THE TOP OF SUBGRADE MATERIAL.

GENERAL NOTES:
1) BANK AND BACKFILL MATERIALS SHALL BE EITHER OF THE SAME TYPE AND COMPOSITION AS THE MATERIALS REQUIRED TO BE EQUAL OR GREATER STRUCTURAL ADEQUACY MATERIALS CONTAMINATED WITH DEleterIOUS SUBSTANCES DURING EXCAVATION SHALL NOT BE USED.
2) REPLACED BASE MATERIAL OVER SIDES SHALL BE TWICE THE THICKNESS OF THE ORIGINAL BASE.
3) BASE MATERIAL SHALL BE PLACED IN TWO OR THREE LAYERS AND EACH LAYER INDIVIDUALLY ROLLED OR TAMPED TO THE SPECIFIED DENSITY.
4) ASPHALT CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY TAMPED.
5) SURFACE TREATED PAVEMENT JOINTS SHALL BE BUILT UP TO ORIGINAL SURFACE.
6) SURFACE MATERIAL WILL BE CONSISTENT WITH THE EXISTING SURFACE.
7) LIMEROCK BASE SHALL BE INSTALLED IN 4" LAYERS WITH THE FOLLOWING MINIMUM REQUIREMENTS PER AASHTO T-180:
8) 12" UNDER ROADWAY
9) PER SECTION THE TRAVELED SHOULDERS
10) SUCH AS INTERSECTION, CROSSOVERS, TURNS ETC.
11) SEE SHOULDER PAVEMENT.

REPLACEMENT OF FLEXIBLE PAVEMENT FOR PERMITTED PAVEMENT CUT PAVEMENT RESTORATION DETAIL.

GENERAL NOTES

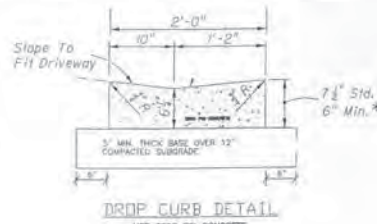
- 1) Inlets shall have 2" minimum and finished and all grates shall be standard.
- 2) Inlets subject to incoming traffic should be protected without curb. Where details to a structure inlet should be constructed with curb. Details shall include where traffic over pipes used in areas accessible to pedestrians shall have removable grate. The pipe should be constructed to not obstruct the full flow of traffic. Grates shall be constructed of metal or non-metallic material.
- 3) Steel grates are to be used on all inlets where bicycle traffic is anticipated. Steel grates are to be used on all inlets with horizontal slats. Either cast iron or steel grates may be used on inlets without pipes where bicycle traffic is not anticipated. Either cast iron or steel grates may be used on all inlets with non-removable slats.
- 4) Recommended minimum pipe sizes shall be used for all inlets. Pipe sizes larger than those recommended must be checked for fit.
- 5) All exposed corners and edges of structure are to be chamfered.
- 6) Inlet to be used on all inlets not located in paved areas.
- 7) For supplementary details see F.D.O.T. INDEX NO. 201.
- 8) GRATES IN GRADE AREAS SHALL BE SET ASIDE.
- 9) FRAME AND GRATES IN PAVED AREAS SHALL BE USE 4155-4209



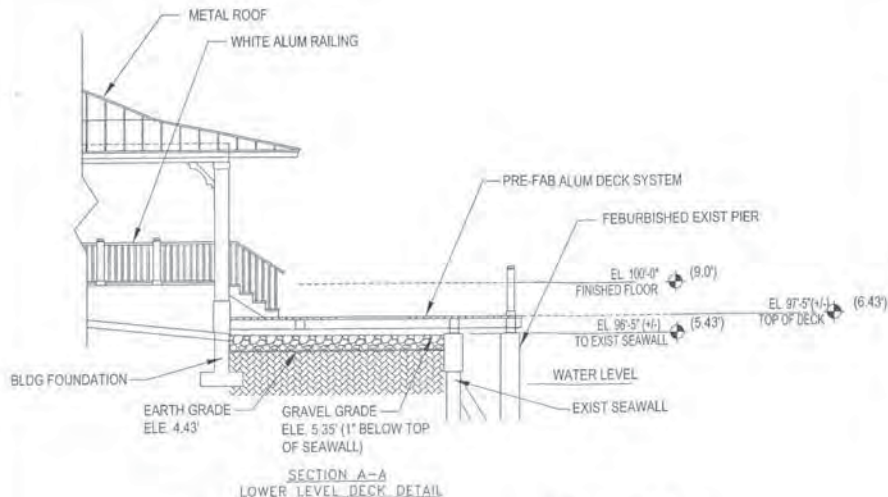
NOTE: CONST. 2" PAPER AT ENDS OF ALL D CURB THAT DO NOT MEET A BUILDING WALL/SIDEWALK, ETC.



NOTE: FOR ADDITIONAL INFORMATION, REFER TO FOOTING INDEX # 300.

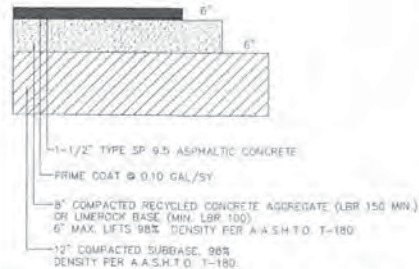


A SUMP 2' BELOW THE MINIMUM FLOW LINE ELEVATION MUST BE PROVIDED FOR ALL DRAINAGE STRUCTURES

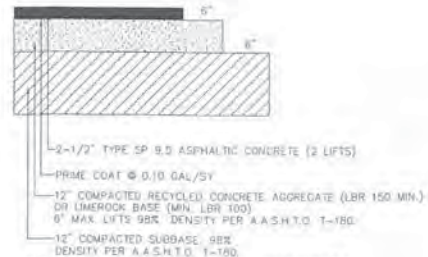


NOTE:
1) INSTALL 3 LAYERS OF MESH FAB (FOOT TYPE D-3) OR EQUAL FILTER FABRIC ON GRADE PRIOR TO INSTALLATION OF COURSE GRAVEL. OVERLAP FABRIC 2" MINIMUM. FABRIC SHALL BE TURNED UP AGAINST THE BUILDING AND SEAWALL TO FINAL GRADE. FABRIC SHALL ALSO BE TURNED UP AT ALL TERMINATIONS OR THE DECK TO MATCH GRADE ADJACENT TO DECK.

NOTE:
FILTER WRAP - MEET FOOTING SECTION 985, TYPE D-3 (MIRAFI 180N) OR APPROVED EQUAL (LAP 2" MINIMUM)



ON-SITE TYPICAL PAVEMENT SECTION



MARK A. WILLIAMS, P.E.
P.L. LIC. NO. 34844

DATE	DESCRIPTION	BY	APP'D

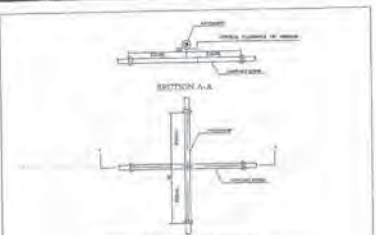
CRAB POT SITE
PAVING AND DRAINAGE DETAILS
179 B 3 2017

SOUTHERN DESIGN GROUP, INC.
2115 Peachtree Dunwoody Drive, Suite 201
Dunwoody, Georgia 30328

DRYING ROOM: 110°F (40°C) MINIMUM
STORAGE: 60°F (15°C) MINIMUM

DATE	REVISED	DESCRIPTION

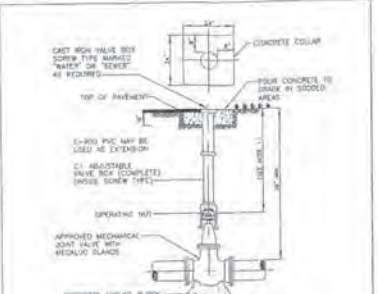
SHEET 5 OF 8



SEWER WATER MAIN LAYOUT AND SEPARATION DETAILS

- STANDARD WATER AND SEWER SEPARATION STATEMENT**
1. SYSTEM AND SEWERAGE SEWER EXISTING UNDER WATER MAIN SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL CLEARANCE OF SIX FEET (6') PROVIDED THE VERTICAL CLEARANCE OF THE WATER MAIN IS MAINTAINED. THE CROSSING SHALL BE AFFIRMED SO THAT THE SEWERAGE SEWER IS AT LEAST ONE (1) FOOT BELOW THE TOP OF THE WATER MAIN. THIS CLEARANCE SHALL BE MAINTAINED TO THE END OF THE WATER MAIN. THE CLEARANCE SHALL BE MAINTAINED TO THE END OF THE WATER MAIN. THE CLEARANCE SHALL BE MAINTAINED TO THE END OF THE WATER MAIN.
 2. MINIMUM SIX (6) FEET HORIZONTAL DISTANCE BETWEEN WATER MAIN AND TOP OF SEWERAGE SEWER MAIN, OR A MINIMUM HORIZONTAL DISTANCE OF THREE (3) FEET BETWEEN THE CROSSING OF THE WATER MAIN AND TOP OF THE WATER MAIN UNDER SEWERAGE SEWER MAIN.
 3. FORCE MAIN EXISTING UNDER WATER MAIN SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF THREE (3) FEET BETWEEN THE CROSSING OF THE WATER MAIN AND TOP OF THE WATER MAIN UNDER SEWERAGE SEWER MAIN.

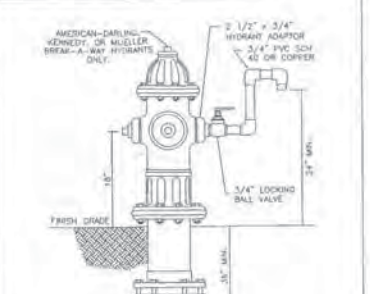
Water & Sewer Details
City of Riviera Beach
Utility District



TYPICAL GATE VALVE SETTINGS

1. WHEN OPERATING VALVE IS DEEPER THAN 1' AN EXTENSION MUST BE PROVIDED TO BRING OPERATING PART 1'-0" TO 2'-0" BELOW FINISH GRADE. EXTENSION SHALL BE 1" ABOVE FINISH GRADE. EXTENSION SHALL BE PROVIDED TO BRING OPERATING PART 1'-0" TO 2'-0" BELOW FINISH GRADE. EXTENSION SHALL BE PROVIDED TO BRING OPERATING PART 1'-0" TO 2'-0" BELOW FINISH GRADE.
2. WOOD BRACKET SHALL BE PROVIDED AT THE TOP OF THE OPERATING PART.

Water & Sewer Details
City of Riviera Beach
Utility District



SAMPLE POINT (HYDRANT)

Water & Sewer Details
City of Riviera Beach
Utility District

**CITY OF RIVIERA BEACH
WATER AND SEWER DETAILS**

1. THE CITY ENGINEER SHALL REVIEW ALL DESIGN DRAWINGS AND SPECIFICATIONS FOR CONFORMANCE WITH THE CITY ENGINEER'S STANDARD SPECIFICATIONS FOR WATER AND SEWERAGE CONSTRUCTION AND THE CITY ENGINEER'S STANDARD SPECIFICATIONS FOR WATER AND SEWERAGE CONSTRUCTION.

2. THE CITY ENGINEER SHALL REVIEW ALL DESIGN DRAWINGS AND SPECIFICATIONS FOR CONFORMANCE WITH THE CITY ENGINEER'S STANDARD SPECIFICATIONS FOR WATER AND SEWERAGE CONSTRUCTION AND THE CITY ENGINEER'S STANDARD SPECIFICATIONS FOR WATER AND SEWERAGE CONSTRUCTION.

3. THE CITY ENGINEER SHALL REVIEW ALL DESIGN DRAWINGS AND SPECIFICATIONS FOR CONFORMANCE WITH THE CITY ENGINEER'S STANDARD SPECIFICATIONS FOR WATER AND SEWERAGE CONSTRUCTION AND THE CITY ENGINEER'S STANDARD SPECIFICATIONS FOR WATER AND SEWERAGE CONSTRUCTION.

4. THE CITY ENGINEER SHALL REVIEW ALL DESIGN DRAWINGS AND SPECIFICATIONS FOR CONFORMANCE WITH THE CITY ENGINEER'S STANDARD SPECIFICATIONS FOR WATER AND SEWERAGE CONSTRUCTION AND THE CITY ENGINEER'S STANDARD SPECIFICATIONS FOR WATER AND SEWERAGE CONSTRUCTION.

5. THE CITY ENGINEER SHALL REVIEW ALL DESIGN DRAWINGS AND SPECIFICATIONS FOR CONFORMANCE WITH THE CITY ENGINEER'S STANDARD SPECIFICATIONS FOR WATER AND SEWERAGE CONSTRUCTION AND THE CITY ENGINEER'S STANDARD SPECIFICATIONS FOR WATER AND SEWERAGE CONSTRUCTION.

WATER AND SEWER PROJECTS

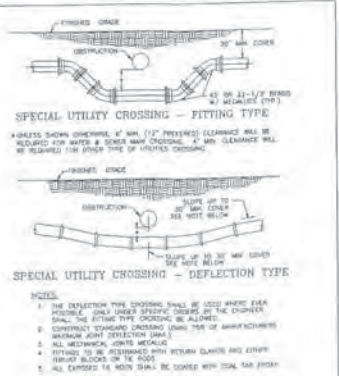
1. ALL PROJECTS SHALL BE SUBJECT TO THE CITY OF RIVIERA BEACH STANDARD SPECIFICATIONS FOR WATER AND SEWERAGE CONSTRUCTION AND THE CITY ENGINEER'S STANDARD SPECIFICATIONS FOR WATER AND SEWERAGE CONSTRUCTION.

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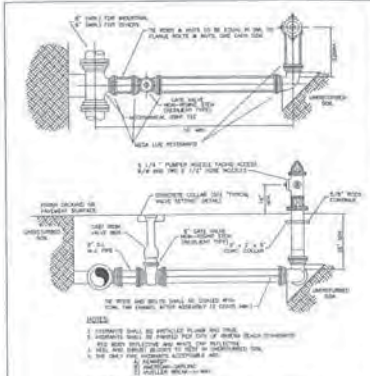
4. ALL PROJECTS SHALL BE SUBJECT TO THE CITY OF RIVIERA BEACH STANDARD SPECIFICATIONS FOR WATER AND SEWERAGE CONSTRUCTION AND THE CITY ENGINEER'S STANDARD SPECIFICATIONS FOR WATER AND SEWERAGE CONSTRUCTION.

5. ALL PROJECTS SHALL BE SUBJECT TO THE CITY OF RIVIERA BEACH STANDARD SPECIFICATIONS FOR WATER AND SEWERAGE CONSTRUCTION AND THE CITY ENGINEER'S STANDARD SPECIFICATIONS FOR WATER AND SEWERAGE CONSTRUCTION.



CONCRETE THRUST BLOCKS
Water & Sewer Details
City of Riviera Beach
Utility District

FORCE MAIN CROSSING
Water & Sewer Details
City of Riviera Beach
Utility District



FIRE HYDRANT INSTALLATION DETAIL
Water & Sewer Details
City of Riviera Beach
Utility District

MANHOLE LOCATION TABLE

MANHOLE NO.	DESCRIPTION	LOCATION
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GENERAL NOTES: (As Applicable)

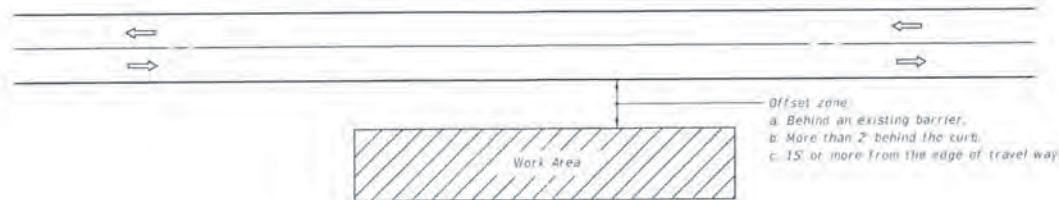
1. ALL WORK SHALL BE SUBJECT TO THE CITY OF RIVIERA BEACH STANDARD SPECIFICATIONS FOR WATER AND SEWERAGE CONSTRUCTION AND THE CITY ENGINEER'S STANDARD SPECIFICATIONS FOR WATER AND SEWERAGE CONSTRUCTION.
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CITY OF RIVIERA BEACH - UTILITY DISTRICT

CRAB POT SITE
WATER AND SEWER DETAIL SHEET

SOUTHERN DESIGN GROUP, INC.
ENGINEERING, PLANNING, AND PROJECT MANAGEMENT
1100 W. PALM BEACH BLVD., SUITE 200
PALM BEACH, FLORIDA 33411

DATE: 11/11/2014
SCALE: AS SHOWN



GENERAL NOTES

1. If the work operation (excluding establishing and terminating the work area) requires that two or more work vehicles cross the offset zone in any one hour, traffic control will be in conformance with Index No. 602.
2. No special signing is required.
3. When a side road intersects the highway within the work area, additional TTC devices shall be placed in accordance with other applicable TCZ Indexes.
4. When construction activities encroach on a sidewalk refer to Index No. 660.
5. For general TCZ requirements and additional information, refer to Index No. 600.

SYMBOLS

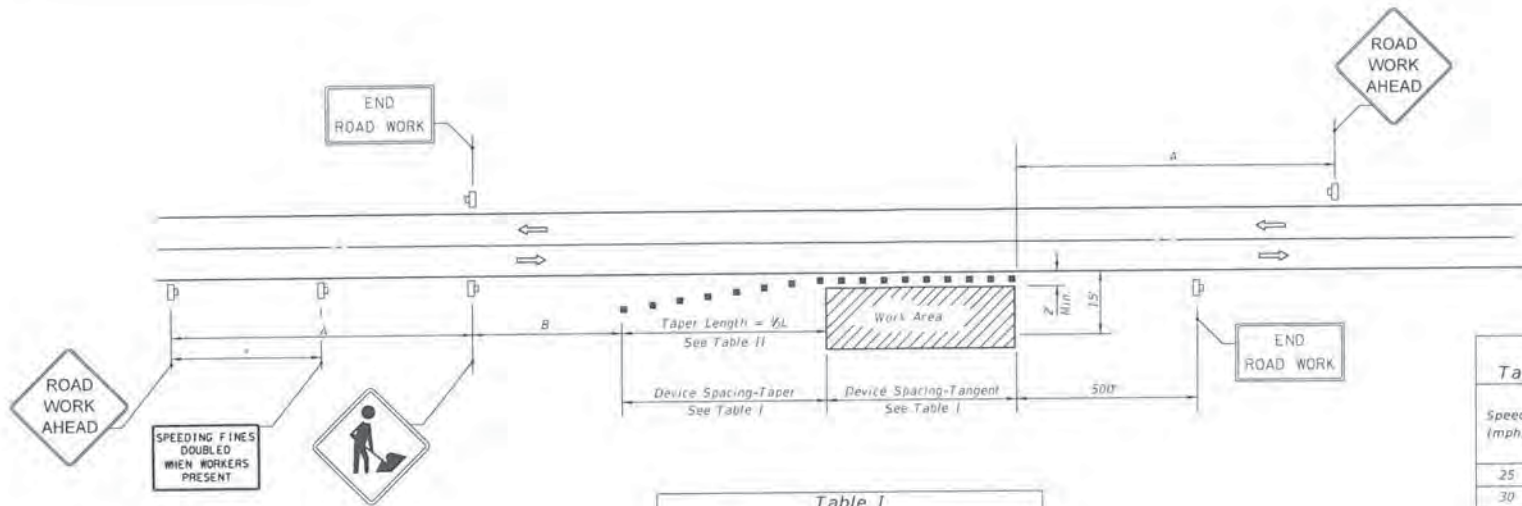
- Work Area
- Lane Identification + Direction of Traffic

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS AND THEIR ACTIVITIES ARE BEHIND AN EXISTING BARRIER, MORE THAN 2' BEHIND THE CURB, OR 15' OR MORE FROM THE EDGE OF TRAVEL WAY.

17-H-496-0195-93080

LAST REVISION 07/01/05	REVISION	DESCRIPTION:		FY 2016-17 DESIGN STANDARDS	TWO-LANE, TWO-WAY WORK OUTSIDE SHOULDER	INDEX NO. 601	SHEET NO. 1 of 1
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Speed	Spacing (ft.)	
	A	B
40 mph or less	200	200
45 mph	350	350
50 mph or greater	500	500

*Midway between signs.

Speed (mph)	Max. Distance Between Devices (ft.)			
	Cones or Tubular Markers		Type I or Type II Barricades or Vertical Panels or Drums	
	Taper	Tangent	Taper	Tangent
25	25	50	25	50
30 to 45	25	50	30	50
50 to 70	25	50	50	100

Speed (mph)	1/2 L (ft)			Notes
	8' Shldr.	10' Shldr.	12' Shldr.	
25	28	35	42	L = WS / 60
30	40	50	60	
35	55	68	82	
40	72	90	107	
45	120	150	180	L = WS
50	133	167	200	
55	147	183	220	
60	160	200	240	
65	173	217	260	
70	187	233	280	

B = minimum shoulder width
 1/2 L = Length of shoulder taper in feet
 W = Width of total shoulder in feet (combined paved and unpaved width)
 S = Posted speed limit (mph)

SYMBOLS

- Work Area
- Channelizing Device (See Index No. 600)
- Work Zone Sign
- Lane Identification & Direction of Traffic

GENERAL NOTES

- When four or more work vehicles enter the through traffic lanes in a one hour period or less (excluding establishing and terminating the work area), the advanced FLAGGER sign shall be substituted for the WORKERS sign. For location of flaggers and FLAGGER signs, see Index No. 603.
- SHOULDER WORK sign may be used as an alternate to the WORKER symbol sign only on the side where the shoulder work is being performed.
- When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TC2 Indexes.
- For general TC2 requirements and additional information, refer to Index No. 600.

DURATION NOTES

- Signs and channelizing devices may be omitted if all of the following conditions are met:
 - Work operations are 60 minutes or less.
 - Vehicles in the work area have high-intensity rotating, flashing, oscillating, or strobe lights operating.

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCR OACH THE AREA CLOSER THAN 15' BUT NOT CLOSER THAN 2' TO THE EDGE OF TRAVEL WAY.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
DRAINAGE CONNECTION PERMIT

To be completed by DOT

Drainage Connection Permit No. _____ Date 10/13/16
 Received By R. Evert Maintenance Unit 496
 State Road No. 91A Work Program Project No. _____
 Section No. 93080 Construction Project No. _____
 Milepost 0.310 Station _____

Instructions for Drainage Connection Permit

Pursuant to 14-86.004(6), F.A.C. "The Drainage Connection Permit form serves as the application. Once approved by the Department, the form and supporting documents become the Drainage Connection Permit."

The applicant shall submit four completed permit packages with original signatures. Each package shall include all required attachments. All required signed and sealed plans and supporting documentation shall be submitted on no larger than (11" X 17") multipurpose paper, unless larger plan sheets are requested by the reviewer. The package will include the following items. If an item does not apply to your project, indicate "Not Applicable" or "N/A."

Included	Part	Title	Completed by:	Special Instructions
X	1	Permit Information Sheet	Applicant	
X	2	Certification by a Licensed Professional	Licensed Professional	Signed and Sealed
X	3	Certification	Applicant	Signature
X	4	Owner's Authorization of a Representative	Owner	Signature
X	5	Affidavit of Ownership or Control and Statement of Contiguous Interest	Owner	Signature
X	6	Permit General Conditions	FDOT	
X	7	Permit Special Conditions	FDOT	
N/A	8	As-Built Certification	Licensed Professional	Signed and Sealed – Submit within 15 working days of completion of construction
X	Attachment	Legal Description		
X	Attachment	Photographs of Existing Conditions		
X	Attachment	Location Map		
X	Attachment	Grading Plan		
X	Attachment	Soil Borings	Licensed Professional	Signed and Sealed
X	Attachment	Water Table / Percolation		
X	Attachment	Calculations		
X	Attachment	CD with Electronic Files of all Submittal Items		Scanned Images in pdf format

Note: Different Licensed Professionals may complete parts of the permit package. For example the Licensed Professional signing and sealing the as-built certification may be different from the Licensed Professional who signed and sealed the calculations for the permit package.

EXCEPTIONS: Activities that qualify for an Exception are listed in Rule 14-86, F.A.C. A permit application to the Department is NOT required. However, if you desire verification whether the work qualifies for an exception, send a completed copy of this permit package with its requested information to the applicable FDOT District Office.

16-0-496-0046-93080

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
DRAINAGE CONNECTION PERMIT

PART 1 – Permit Information Sheet

Select one: Permit Exception

Pursuant to 14-86.002(2), F.A.C. "Applicant means the owner of the adjacent property or the owner's authorized representative."

Applicant

Select one: Property Owner Owner's Representative (Complete Part 4)

Name: Seven Kings Holdings, Inc.

Title and Company: Raymond E. Graziotto, President

Address: 630 Maplewood Drive, Suite 100

City: Jupiter State: FL Zip: 33458

Telephone: 561-625-9443 FAX: 561-625-5689 Email: ken@skholdings.com

Property Owner (If not applicant)

Name: Riviera Shores, LLC

Title and Company: By: Andrew Podray, Authorized Member

Address: 800 North Road

City: Boynton Beach State: FL Zip: 33435

Telephone: (m) 561-523-5140 FAX: n/a Email: pod4270@aol.com

Applicant's Licensed Professional

Name: Mark A. Williams Florida License Number: 34944

Title and Company: P.E. / Southern Design Group, Inc.

Address: 609 North Hepburn Avenue, Suite 204

City: Jupiter State: FL Zip: 33458

Telephone: 561-743-0501 FAX: 561-743-1420 Email: markw@sdgcivil.com

Project Information:

Project Name: Crab Pot Site

Location: 386 East Blue Heron Blvd. 708 A-1-A Riviera Beach
 STREET SR. NO. US HWY NO. CITY

Palm Beach 28 42S 43E
 COUNTY SECTION(S) TOWNSHIP(S) RANGE(S)

*Geographic Coordinates: Latitude (DMS.SSS): 26°47'00.00" N Longitude (DMS.SSS): 80°02'54.53 N

Horizontal Datum: (NAD 83 / Adj.)

* State Plane Coordinates: Northing Easting:

Projection Zone: Florida North Florida East Florida West

Coordinate shall be the center of the driveway intersection with FDOT R/W, or, if there is no driveway connection, near the center of the property line nearest the state highway.

*Check with the FDOT Office for requirement.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
DRAINAGE CONNECTION PERMIT

Brief description of facility and proposed connection: _____

The "Crab Pot" project will consist of a 4486 S.F. restaurant with associated parking and driveway connection to existing loop road.

Proposed drainage system will consist of inlets and drainage piping with exfiltration trench. Drainage will be piped to an existing drainage structure in the F.D.O.T. right of way following the required detention of stormwater.

Briefly describe why this activity requires a Drainage Connection Permit (Include where the stormwater will discharge to FDOT right of way):

Proposed project is adjacent to the F.D.O.T. right of way and ultimately discharges to the existing F.D.O.T. drainage system on Blue Heron Boulevard.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
DRAINAGE CONNECTION PERMIT

PART 2 – Certification by a Licensed Professional

In accordance with Rule 14-86, Florida Administrative Code (F.A.C.), I hereby certify that the following requirements are and/or will be met.

This project has been designed in compliance with all applicable water quality design standards as required by state governmental agencies.

14-86.004(3)(f) (F.A.C.): Certification by a Licensed Professional that the complete set of plans and computations complies with one of the following Rules Sections:

14-86.003(2)(a) (F.A.C.), or 14-86.003(2)(b) (F.A.C). (check one)

I further certify that a National Pollutant Discharge Elimination System (NPDES) permit for stormwater discharges associated with industrial activity from construction sites

is required is not required. (check one)

I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment.

This certification shall remain valid for any subsequent revision or submittal of plans, computation or other project documents by me.

Name of Licensed Professional: Mark A. Williams, P.E.

Florida License Number: 34944


Company Name (if applicable): Southern Design Group, Inc.

Certificate of Authorization Number (if applicable): 5142

Address: 609 North Hepburn Avenue, Suite 204

City: Jupiter State: FL Zip: 33458

Telephone: 561-743-0501 Fax: 561-743-1420 Email: markw@sdcivil.com



Signature of Licensed Professional

10/4/16

Date

(Affix Seal)

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
DRAINAGE CONNECTION PERMIT

PART 3 – Certification by Applicant

I hereby certify that the information in this submittal is complete and accurate to the best of my knowledge.

Applicant's Signature: _____ Date: _____

Name (Printed): Seven Kings Holdings, Inc.

Title and Company: Raymond E. Graziotto, President

Address: 630 Maplewood Drive, Suite 100 Jupiter FL 33458

Phone Number: 561-625-9443 E-mail address: ken@skholdings.com

PART 4 – Owner's Authorization of a Representative

I (we), the owner, Andrew Podray, Authorized Member, do hereby authorize the following person, or entity, as my representative:

Name (Printed): Seven Kings Holdings, Inc.

Title and Company: Raymond E. Graziotto, President

Address: 630 Maplewood Drive, Suite 100 Jupiter FL 33458

Phone Number: 561-625-9443 E-mail address: ken@skholdings.com

Part 5 – Affidavit of Property Ownership or Control and Statement of Contiguous Interest

I, Andrew Podray, Authorized Member, certify that I own or lawfully control the following described property: PBC PCN # 56-43-42-28-00-003-0090

AKA 386 East Blue Heron Blvd., Riviera Beach, FL 33404

Does the property owner own or have any interests in any adjacent property?

No Yes If yes, please describe. _____

Owner's Signature required for Parts 4 and/or 5

We will not begin on the drainage connection until I receive the Permit and I understand all the conditions of the Permit. When work begins on the connection, I am accepting all conditions listed in the Permit.

Name (Printed): Andrew Podray, Authorized Member

Address: 800 North Road, Boynton Beach, FL 33455

Phone Number: 561-523-5140

Signature: _____ Date: 09/21/16

PART 6 – Permit General Conditions

1. This permit is a license for permissive use only and does not convey any property rights either in real estate or material, or any exclusive privilege and it does not authorize any injury to private property or invasion of private rights, or any infringement of Federal, State or local laws, rules or regulations; nor does it obviate the necessity of obtaining any required state or local approvals.
2. The drainage connection as authorized herein shall be constructed and thereafter maintained in accordance with the documents attached hereto and incorporated by reference herein. All work performed in the Department's right of way shall be done in accordance with the most current Department standards, specifications and the permit provisions. Such construction shall be subject to the inspection and approval of the Department, and the Department may at any time make such inspections as it deems necessary to assure that the drainage connection is in compliance with this permit.
3. The entire expense of construction within the Department right of way, including replacement of existing pavement or other existing features, shall be borne by the permittee.
4. The permittee shall maintain that portion of the drainage connection authorized herein located on permittee's property in good condition. The Department shall maintain that portion of the drainage connection authorized herein located within its right of way.
5. If the drainage connection is not constructed, operated or maintained in accordance with this permit, the permit may be suspended or revoked. In this event modification or removal of any portion of the drainage connection from the Department's right of way shall be at the permittee's expense.
6. The Department reserves the right to modify or remove the drainage connection to prevent damage or in conjunction with road improvements.
7. It is understood and agreed that the rights and privileges herein set out are granted only to the extent of the Department's right, title, and interest in the land to be entered upon and used by the permittee, and the permittee will, at all times, assume all risk of and indemnify, defend and save harmless the Department from and against any and all loss, damage, cost or expense arising in any manner on account of the exercise or attempted exercises by said permittee of these rights and privileges, regardless of the respective degrees of fault of the parties.
8. Utilities, including gas lines, may exist within the right of way. Prior to beginning work the permittee shall contact Sunshine State One Call of Florida, Inc at 811 or 800-432-4770, who will notify all utility owners near the scheduled project. The utility owners have two (2) full business days to provide locations of their respective facilities. The permittee shall be solely responsible for any damage to or conflicts with gas lines, utilities and/or third persons.
9. The permittee shall notify the Department of Transportation Maintenance Office located at 7900 Hill Blvd Phone 561-452-4966 48 hours in advance of starting any work on the drainage connection authorized by this permit and also 24 hours prior to any work within the Department's right of way. Construction of any work on the right of way shall be completed within _____ days after such notification. If such construction is not completed within _____ days after such notification, the permittee shall notify the Department of the anticipated completion date.
10. This permit shall expire if construction on the drainage connection is not begun within one year from the date of approval and if construction on the drainage connection is not completed by (Date) 10-31-2017.
11. A permittee may request an extension of the Drainage Connection Permit expiration date by filing a written request for a permit time extension. All requests for time extensions must be received by the Department 15 working days prior to the expiration date.
12. All the provisions of this permit shall be binding on any assignee or successor in interest of the permittee.

PART 7 – Permit Special Conditions – To be completed by FDOT

The above request has been reviewed and has been found to meet the regulations as prescribed in Rule 14-86, F.A.C., and is hereby approved, subject to the following special conditions:

16D-496-0056

There is an authorized drainage connection to FDOT right of way. This permit authorizes drainage structures in the right of way.

This Drainage Connection Permit authorizes construction of the drainage structures shown in the approved plans.

This Drainage Connection Permit does NOT authorize any other work inside FDOT right of way. Any other work inside FDOT right of way must be authorized by another permit type such as an Access Permit.

See Attachment "A"

16D-496-0046

Department of Transportation:

Signature 

Drainage Designer

Title _____ Date 11-01-2016

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
DRAINAGE CONNECTION PERMIT

PART 8 – As-Built Certification

Within 15 working days of completion of construction, you must send this certification to the Department office in which you filed your DOT Drainage Permit.

1. STORM WATER FACILITY INFORMATION

Permit No.: _____

Source (Project) Name: Crab Pot Site

Source Location: Street 386 East Blue Heron Blvd.

City: Riviera Beach County: Palm Beach

Source Owner: Riviera Shores, LLC / By: Andrew Podray, Authorized Member

Owner Address: 800 North Road, Boynton Beach, FL 33435

2. AS-BUILT CERTIFICATION

I hereby certify that this storm water facility has been built substantially in accordance with the certified design plans, and that any substantial deviations (noted below) will not prevent the facility from functioning in compliance with the requirements of Chapter 14-86 F.A.C. when properly maintained and operated. These determinations have been based upon on-site observation of construction, scheduled and conducted by me or by a project representative under my direct supervision.

Name of Licensed Professional: Mark A. Williams, P.E.

Florida License Number: 34944

Company Name (if applicable): Southern Design Group, Inc.

Certificate of Authorization Number (if applicable): 5142

Address: 609 North Hepburn Avenue, Suite 204

City: Jupiter State: FL Zip: 33458

Telephone: 561-743-0501 Fax: 561743-1420 Email: markw@sdgcivil.com

Signature of Licensed Professional

Date

(Affix Seal)

Substantial deviations from the approved plans and specifications (attach additional sheets if required).

SPECIAL PROVISIONS/CONDITIONS
DRAINAGE PERMITS
ATTACHMENT "A"

Certified "as-built" plans must be submitted to FDOT when the job is completed.

It is the Permittee's responsibility to obtain final acceptance of permitted work (completed) and the restoration of the Right of Way from the Department prior to usage.

Permittee will restore the Right of Way as a minimum, to its original condition or better in accordance w/FDOT's Standard Specifications for Road & Bridge Construction or as directed by the Resident Operations Engineer.

Permittee shall use the current editions of the Department's Design Standards, Standard Specifications for Road and Bridge Construction and applicable manuals, policies and procedures.

All maintenance of traffic (MOT) will be in accordance with the Department's current edition of the Design Standards, (600 series). The Operations Engineer or his designee reserves the right to direct the removal/relocation/modification of any traffic device(s) at the Permittee's sole expense.

Restricted hours of operation will be from 9:00 am to 3:30 pm, (Monday thru Friday), unless otherwise approved by the Operations Engineer, or designee.

Permittee shall coordinate all work with David Moore of Broadspectrum @ 954-317-8044 or email: david.moore@broadspectrum.com

PERMIT IS VALID FOR ONE (1) YEAR FROM THE DATE OF ISSUE.

CRAB POT SITE

DRAINAGE CALCULATIONS

October 2016

The referenced project is located on the northwest corner of Blue Heron Boulevard (A-1-A) and the Intracoastal Waterway in the City of Riviera Beach. The existing site was previously occupied by the "Crab Pot" restaurant and was accessed by the loop road under the Blue Heron Bridge. The proposed project will consist of a 4486 SF restaurant.

The existing site has been abandoned and the existing Crab Pot restaurant and associated parking has been removed. The survey for the Crab Pot site indicates the existing land use and coverage. The existing site was almost completely covered by pavement, concrete and building. We have calculated the percent impervious of the Crab Pot site and it was 95.17 % impervious.

Based on the survey, the existing drainage patterns on-site indicated that the majority of the storm water runoff sheet flowed to the west from the existing building and asphalt parking area and then ran to the south to the existing loop road. A small portion of the site drained directly into the Intracoastal Waterway from the roof area. There is an existing catch basin on the southwest corner of the site that is connected to an 8" PVC pipe. The origin of this 8" PVC pipe is unknown.

The pavement and other areas between the building and the loop road curb sheet flowed directly to the loop road. There is a catch basin to the west on the loop road that connects to the drainage system for the bridge and ultimately discharges to the Intracoastal Waterway.

Note that there was a previous project named Inlet Tower that was proposed on this site in 2006 and a drainage connection permit was issued by the FDOT for the project (Permit Number 06D-496-0007).

The proposed site will include the construction of a 4486 SF restaurant and surface parking. The parking area will include an underground drainage system collecting runoff from the roof drain systems and from the parking area. The grades in the parking area will direct runoff to catch basins and these basins will be piped to catch basin located south of the building near

the loop road. The catch basin near the loop road will act as “bubble up” inlets to release stormwater from the site and sheet flow to the existing drainage system on the loop road. This catch basin is proposed to be replaced.

The proposed drainage system will be designed to provide water quality treatment of the storm water runoff and retain the 3 year – 1 hour storm event. The drainage system will include exfiltration trench to provide the retention of storm water runoff prior to discharge to the loop road drainage system.

The loop road drainage system has been historically draining this site. Based on the pre-development land use coverage compared to the post-development land use coverage and the proposed drainage system, stormwater runoff from the site will be reduced following the completion of this project.

The existing land use is as follows:

Site Area – 0.331 acres
Building Area = 0.14 acres
Pervious Area – 0.016 acres
Impervious Area – 0.315 acres
Percent Impervious – 95.17%

The proposed land use is as follows:

Site Area – 0.331 acres
Building Area = 0.10 acres
Pervious Area – 0.08 acres
Impervious Area – 0.25 acres
Percent Impervious – 75.5%

Attached are exfiltration trench calculations which indicate the amount of exfiltration trench required to meet the water quality volume and the retention of the 3 year - 1 hour storm event for the site.

The water quality volume is based on 2.5 times the percent impervious (in inches). This equates to the following.

$2.5 \times 0.331 \text{ acres (assume 100\% impervious)} = 0.827 \text{ ac-in}$
100% of the water quality will be provided by dry pretreatment

The 3 year – 1 hour rainfall amount is 3.32”.
 $3.32'' \times 0.331 \text{ ac} = 1.10 \text{ ac-in.}$

40 L.F of exfiltration Trench required to retain 1.10 ac-in. 50 L.F. of exfiltration trench provided. Total treatment in trench provided exceeds 1.10 ac-in

Note that based on providing 1.10 ac-in of pre-treatment prior to discharge, the site is providing the required water quality volume and retaining the 3 year – 1 hour storm event.

The FEMA elevation in this area, based on the current FEMA maps, is elevation 8.00' NGVD. The minimum finished floor of the building has been set at elevation 9.00' NGVD.

Note that there is 0.03 acres of the site that will be draining to a retention area under the deck on the east side of the building. This drainage area will not contribute to the runoff onto the loop road. We have not deducted this area from the calculations at this time.

Based on the above, the proposed drainage system is exceeding the required retention volumes and is conservative.

We have provided two exfiltration trench percolation tests. The older test indicates a percolation rate of 0.00118. The newer test indicates a percolation rate of 0.000812. The lower percolation rate was used for this project.

Refer to the attached exfiltration calculations, rainfall intensity chart and drainage area map for the eastern deck area.

Prepared by:

~~Mark A. Williams, P.E.~~

10/3/16

Date:

P.E. # 34944

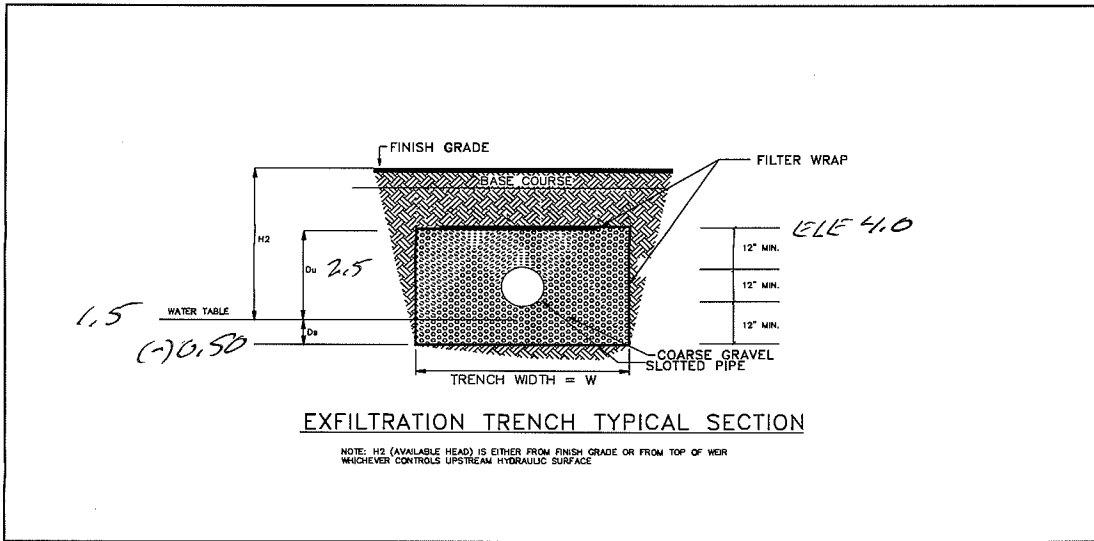
C.A. # 5142

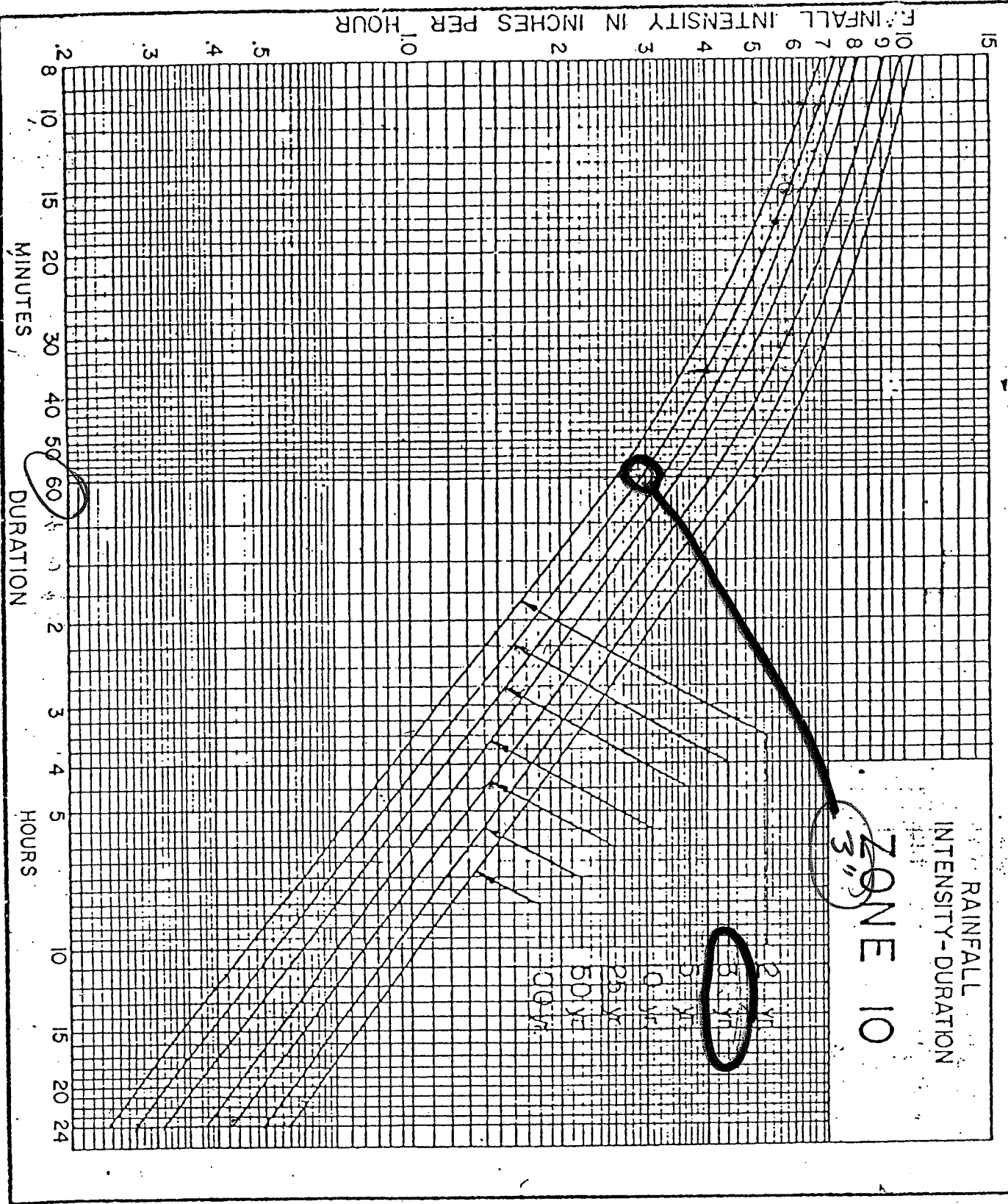
Southern Design Group, Inc.

EXFILTRATION TRENCH CALCULATIONS
Crab Pot Site

$$L = V / (Kx(H2xW+2xH2xDu-(DuxDu)+2xH2xDs)) + (1.39E-04xWxDu)$$

L = LENGTH OF TRENCH REQUIRED IN FEET	40.05827
V = VOLUME TREATED IN ACRE-INCHES	1.1
K = HYDRAULIC CONDUCTIVITY IN CFS/SF-FT-HD	8.12E-04
H2 = DEPTH TO WATER TABLE (FROM SURFACE OR TOP OF WEIR)	2.5
W = TRENCH WIDTH IN FEET	6
Du = NON-SATURATED TRENCH DEPTH IN FEET	2.5
Ds = SATURATED TRENCH DEPTH IN FEET	2





USED 3.32"

Western County

September 8, 2016



Seven Kings Holdings, Inc.
630 Maplewood Drive, Suite 100
Jupiter, FL 33458

Attn: Mr. Kenneth A. Blair
Telephone: 561-625-9443
Email: Ken@SKHOLDINGS.COM

RE: Report, Field Permeability Test Results
Crab Pot Restaurant
386 Blue Heron Blvd
Riviera Beach, Florida
Terracon Project No. HD165119

Dear Mr. Blair:

In accordance with your authorization, Terracon Consultants, Inc. (Terracon) has completed field permeability testing at the subject site to evaluate the hydraulic conductivity characteristics of the upper 7 feet of the stratigraphic profile components. The permeability test was conducted in a 6-inch diameter by 7-foot deep borehole whose sidewalls were stabilized with a 2-inch diameter No. 20 slot perforated well screen and 6/20 silica sand. Usual Open Hole, constant head test methodology was utilized for the hydraulic conductivity determination in accordance with procedures and nomenclature provided by the South Florida Water Management District (SFWMD).

The borehole permeability test was performed at the location shown on Sheet 1. Materials found at the permeability test location generally consisted of about 2 feet of fill material (consisting of fine sand with limerock gravel) overlying fine to medium sands to 7 feet below grade. The depth to the groundwater surface was measured in the borehole (measured on September 7, 2016 at 11:40 am) to be 5.0 feet below the existing surface grade.

The result of the test is presented on Sheet 2, along with pertinent stratigraphic, geometric and hydraulic conditions existing at the test locations. The hydraulic conductivity of the profile components was calculated using an equation provided by the South Florida Water Management District (SFWMD) – the Usual Open Hole Test Method. The calculated permeability value at the test location was 8.12×10^{-4} cubic feet per second per square foot-foot head (cfs/sf-ft).



Terracon Consultants, Inc. 1225 Omar Road West Palm Beach, Florida
P [561] 689-2499 F [561] 689-5955 terracon.com

Project Name: Crab Pot Restaurant
386 Blue Heron Blvd
Riviera Beach, Florida

Project No. HD165119



Source: GoogleEarth Pro

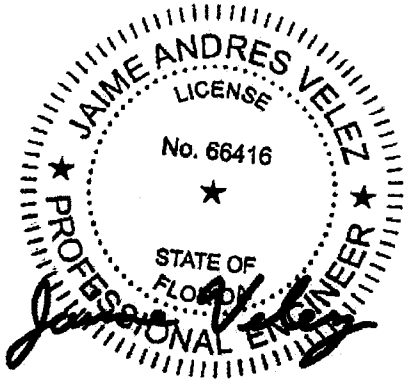
Field Permeability Test Location Plan

Hydraulic Conductivity Test Results
Crab Pot Restaurant ■ Riviera Beach, Florida
September 8, 2016 ■ Terracon Project No. HD165119



We appreciate the opportunity to provide geotechnical engineering services for this project. Please contact us if you have any questions regarding this report.

Sincerely,
Terracon Consultants, Inc.



A handwritten signature in black ink that reads "Kevin Aubry".

Jaime Velez, P.E.
Senior Geotechnical Engineer
Registered, Florida 66416

Kevin Aubry, P.E.
Senior Geotechnical Engineer
Registered, Florida 38175

9/8/16

Attachments:
Sheet 1 – Field Permeability Test Location Plan
Sheet 2 – Field Permeability Test Results

Project Name: Crab Pot Restaurant
 386 Blue Heron Blvd
 Riviera Beach, Florida

Project No. HD165119

TEST NUMBER: BHP-1
 TEST LOCATION: See Field Permeability Test Location Plan
 (Sheet 1)

SUBSURFACE PROFILE

Depth (feet)	Soil Description
0 – 0.2	Dark brown organic SAND with roots (PT)
0.2 – 2.0	Brown fine SAND with some limerock gravel (SP)
2.0 – 7.0	Brown fine to medium SAND with trace gravel size shell fragments (SP)

Water Table Depth: 5 ft below ground surface on Sept 7, 2016 at 11:40 am
 Constant Head Maintained at: Ground Surface

PERMEABILITY RESULTS

Uncased (U) or Cased (C): C
 Casing Depth (ft): 7
 Casing Stick-up (ft): 0
 Perforated length (ft): 5

Constant Head			Falling Head		
Start	Stop	Volume Used (gallons)	Start	Stop	Drop (Ft)
0 sec.	5 min.	66.2	--	--	--

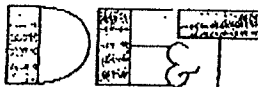
*K, Hydraulic Conductivity (CFS/Ft² - Ft Head)

= 8.12 x 10⁻⁴

*(Reference: South Florida Water Management District Usual Open Hole Test Method)

Note: Borehole was charged with 270 gallons of water prior to initiation of test.

SHEET 2


DUNKELBERGER ENGINEERING & TESTING, INC.
Geotechnical • Materials Testing/Inspection • Environmental

Rankin-Gravett Group, LLC
 1300 N.W. 17th Avenue
 Suite 255
 Delray Beach, Florida 33445

May 25, 2005
 Project No. 05-21-5492

Attention: Mr. Steve Gravett

Subject: *Borehole Permeability Testing*
The Inlet
386 Blue Heron Boulevard
Riviera Beach, Florida

Gentlemen:

Dunkelberger Engineering & Testing, Inc. (DET) has completed a single borehole permeability test at the referenced site to evaluate the hydraulic conductivity characteristics of the upper 5.5 feet of the soil profile components.

The permeability test was conducted in a 4-inch diameter by 5.5-foot deep borehole whose sidewalls were stabilized with a 2-inch diameter partially perforated well screen and 6/20 silica sand. Usual open hole, constant head test methodology was utilized for the hydraulic conductivity determination. The test location is shown on Sheet 1.

The groundwater table was measured in the boring at a depth of 3.5 feet below the existing ground surface at the time of the test (May 24, 2005).

Results of the test are presented on Sheet 1 along with the pertinent stratigraphic, geometric and hydraulic conditions existing at the site. Referencing an equation given in the South Florida Water Management District (SFWMD) Permit Information Manual, Volume IV, the test results show that the average hydraulic conductivity of the profile components is about 1.18×10^{-3} cubic feet per second per square foot per foot head (cfs/sf-ft).

For drainage design purposes, we recommend that the field-determined value of hydraulic conductivity be halved to account for non-hydraulic equilibration in the highly permeable soils during the short duration of the test and a reduction in permeability because of soil compaction during construction.

1225 Omar Road • West Palm Beach, Florida 33405

Phone: (561) 689-4299 • Fax: (561) 689-5955

E-mail: info@detwpb.org

State of Florida Board of Professional Engineers Authorization No. 6870

Rankin-Gravett Group, LLC
 Project No. 05-21-5492

Page 2

oOo

We trust that the information provided in this letter is clear and understandable. Should it require any clarification or amplification, however, please contact us.

Very truly yours,

DUNKELBERGER ENGINEERING & TESTING, INC.

NA

Hieu H. Huynh, P.E.
 Project Engineer
 FL Registration No. 60728

5492rpt:hfh

Thomas Jepper

Thomas Jepper, P.E.
 Principal Engineer
 FL Registration No. 27451

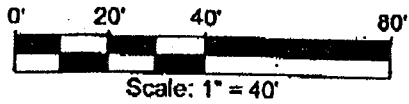
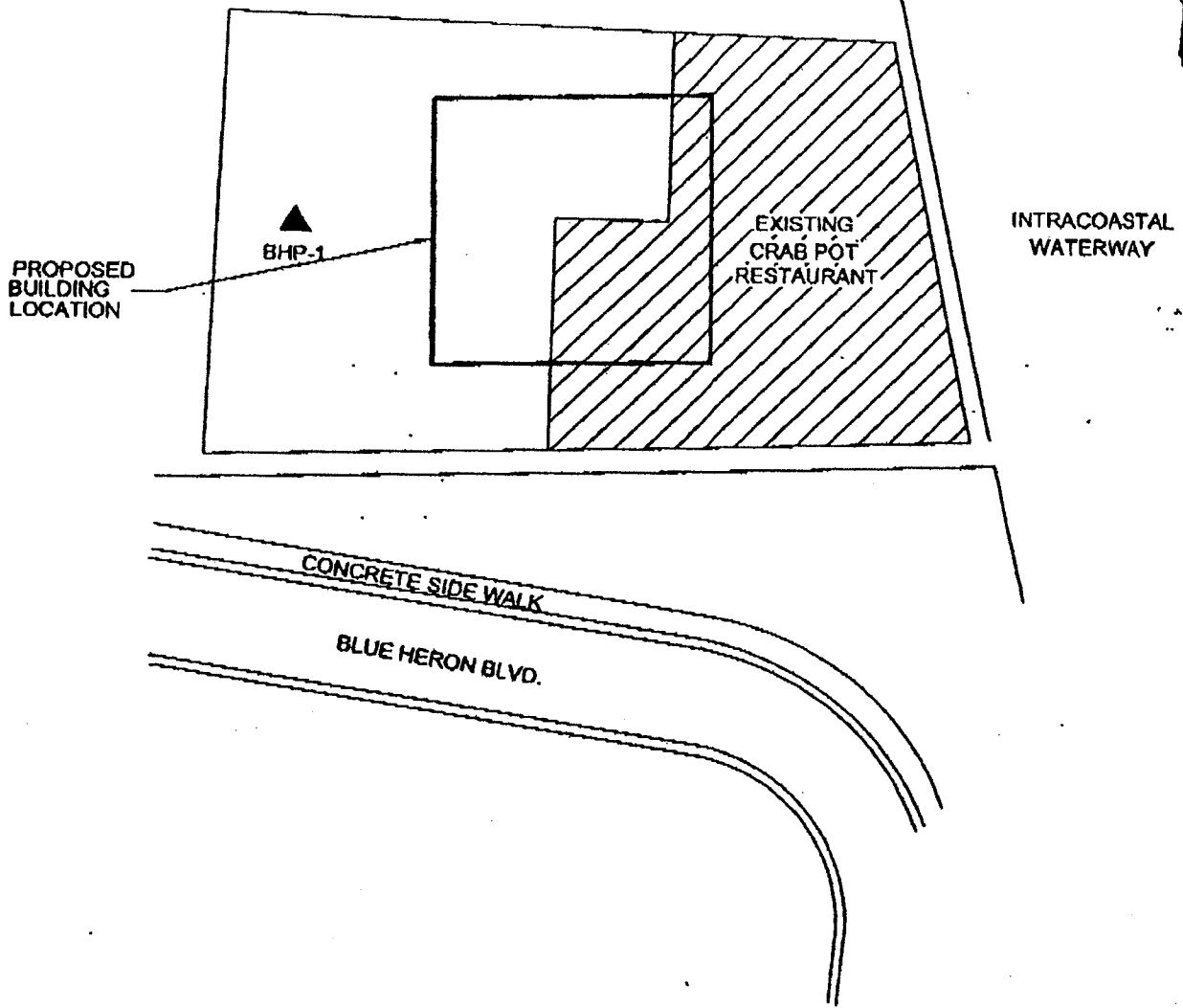
5/2/05

Attachments: Sheet 1 - Permeability Test Location Plan
 Sheet 2 - Field Permeability Test Results

cc: Addressee (2) ... *via fax and U.S. Mail*

Siskind • Carlson & Partners (2) ... *via fax and U.S. Mail*
 Attn: Mr. Steve Siskind





LEGEND
 ▲ - BOREHOLE PERMEABILITY (BHP) TEST LOCATION AND NUMBER
 Location is approximate

DRAWN	GD
CHECKED	HHH
APPROVED	TJT
SCALE	1"=40'
REVISED	

PERMEABILITY TEST LOCATION PLAN
 THE INLET
 386 BLUE HERON BOULEVARD
 RIVIERA BEACH, FLORIDA

DET DUNKELBERGER ENGINEERING & TESTING, INC.
Geotechnical • Materials Testing/Inspection • Environmental

DATE	5-25-05	PROJ. NO.	05-21-5492	SHEET	1
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DE&T DUNKELBERGER ENGINEERING & TESTING, INC.

Project Name / Number: The Inlet
 386 Blue Heron Boulevard
 Riviera Beach, Florida

05-21-5492

TEST NUMBER: BHP-1
 TEST LOCATION: See Permeability Test Location Plan, Sheet 1

Depth (feet)	Soil Description
0.0 - 1.0	Asphaltic concrete over aggregate base course (Flexible Pavement)
1.0 - 5.5	Light brown to brown fine SAND, scattered shell fragments (SP)

Water Table Depth: 3.5 Feet Below Ground Surface on May 24, 2005
 Constant Head Maintained at: Ground Surface

Uncased (U) or Cased (C): C 4-inch ϕ
 Casing Depth (ft): 5.5
 Casing Stick-up (ft): 0.0
 Perforated length (ft): 5.5

Constant Head			Falling Head		
Start	Stop	Volume Used (gallons)	Start	Stop	Drop (Ft)
0 sec.	10 min. 47 sec.	80	--	--	--

*K, Hydraulic Conductivity (CFS/Ft² - Ft Head)

= 1.18 x 10⁻³

*(Reference: Equations in SFWMD Permit Information Manual, Volume IV)

Note: Borehole charged with 20 gallons prior to start of test.



N
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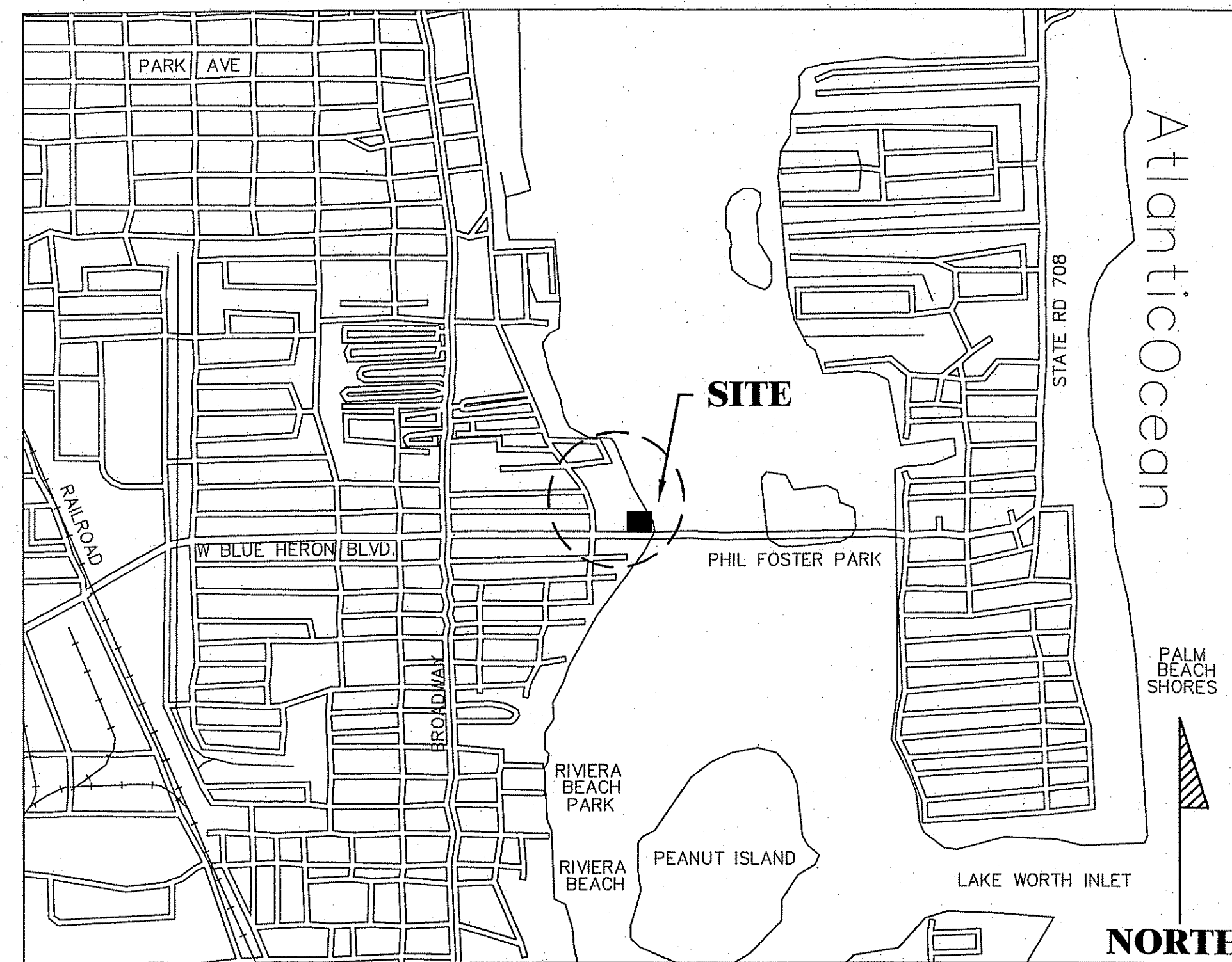
SITE

8 CA, WM

CRAB POT SITE PROPOSED RESTAURANT

LOCATED IN THE
CITY OF RIVIERA BEACH
(PALM BEACH COUNTY, FLORIDA)

WATER, SEWER, PAVING AND DRAINAGE CONSTRUCTION PLANS



LOCATION MAP

SECTION 28, TOWNSHIP 42 SOUTH, RANGE 43 EAST
(PALM BEACH COUNTY, FLORIDA)

PREPARED FOR:
SEVEN KINGS HOLDINGS, INC.
630 MAPLEWOOD DRIVE, SUITE 100
JUPITER, FLORIDA 33458
561-625-9443

SEPTEMBER 2016

PREPARED BY:
SOUTHERN DESIGN GROUP, INC.
609 NORTH HEPBURN AVENUE, SUITE 204
JUPITER, FLORIDA 33458
561-743-0501
EB# 5142

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	PAVING & DRAINAGE PLAN
3	WATER AND SEWER PLAN
4-5	PAVING AND DRINAGE DETAILS
6-7	WATER AND SEWER DETAILS

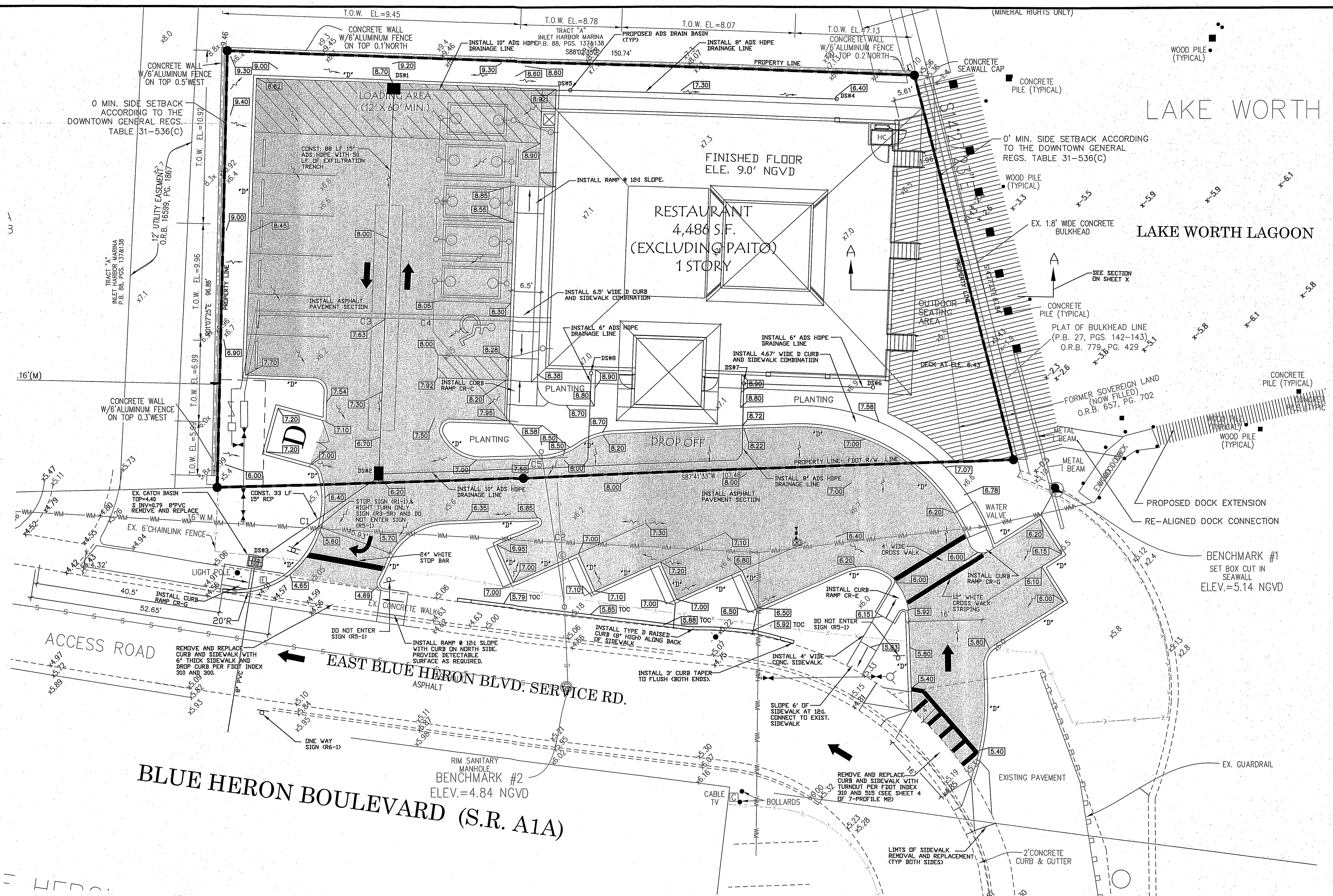
MARK A. WILLIAMS, P.E.
FL LIC NO. 34944

OCT 03 2016

CRAB POT SITE
JOB NO. 15027
SHEET 1 OF 7

- ### LEGEND:
- 5.92x EXISTING ELEVATION
 - 5.00 PROPOSED FINISHED GRADE
 - PROPOSED ASPHALT PAVEMENT
 - SPECIALTY PAVERS
 - HANDICAP PARKING STALL
 - DRAINAGE PATTERN
 - "D" TYPE "D" CURB
 - "F" TYPE "F" CURB AND GUTTER
 - S.S. SANITARY SEWER SERVICE
 - G.V. GATE VALVE
 - ELE. ELEVATION
 - F.L. FLOW LINE ELE. (ALSO KNOW AS INVERT ELE.)
 - D.S. PROPOSED DRAINAGE STRUCTURE
 - H.C. PROPOSED HANDICAP RAMP
 - C.O. SANITARY CLEAN OUT
 - CR CURB RAMP PER FDOT STANDARDS
 - HDR 12" CONC HEADER CURB
 - F.H. FIRE HYDRANT ASSEMBLY
 - DIRECTIONAL ARROW

- ### ABBREVIATIONS:
- CS = CALCULATED
 - C.B.S. = CONCRETE BLOCK STRUCTURE
 - C.M.B. = COMMISSIONER'S MINUTES BOOK
 - C.M. = CONCRETE MANHOLE
 - CONC. = CONCRETE
 - CR = CURB
 - F.H. = FIRE HYDRANT
 - F.L. = FLOW LINE
 - F.P. = FLOW PILE
 - F.P.L. = FLORIDA POWER & LIGHT
 - G.V. = GATE VALVE
 - H.C. = HANDICAP CURB
 - H.W. = HIGH WATER
 - I.B. = IRON BUSHING
 - L.S. = LIGHT SIGN
 - L.S. = LICENSE SIGN
 - M. = MEASURED
 - M.A.W. = MEAN HIGH WATER
 - M.B. = METAL BUSHING
 - O.R.B. = OFFICIAL RECORD BOOK
 - P.L. = PLAT
 - P.B. = PLAT BOOK
 - P.M. = PERMANENT REFERENCE MONUMENT
 - R.O.W. = RIGHT-OF-WAY
 - R.C.P. = REINFORCED CONCRETE PIPE
 - R.P.B. = ROAD PLAT BOOK
 - S. = SURVEY
 - S.P. = STOP SIGN POLE
 - S.M. = SANITARY MANHOLE
 - S.S. = SANITARY SERVICE
 - S.S.M. = SOUTHERN BELL TELEPHONE MANHOLE
 - S.W. = S.W. FROM MANHOLE
 - T. = TRAFFIC SIGN
 - U.L. = UTILITY LIGHT POLE
 - U.P. = UTILITY POLE
 - W.P. = WOOD POLE
 - W.U.P. = WOOD UTILITY POLE
 - W.V. = WATER VALVE



PROPOSED DRAINAGE STRUCTURES

D.S. #1 (TYPE C INLET) GRATE ELE. = 8.70 S. F.L. ELE. = 1.50 E. F.L. ELE. = 4.00 BOTTOM ELE. = (-) 0.50	D.S. #4 (ADS DRAIN BASIN) GRATE ELE. = 8.70 S. F.L. ELE. = 1.50 E. F.L. ELE. = 4.00 BOTTOM ELE. = (-) 0.50	D.S. #8 (ADS DRAIN BASIN) GRATE ELE. = 8.70 S. F.L. ELE. = 4.30
D.S. #2 (TYPE C INLET) GRATE ELE. = 6.20 S.W. F.L. ELE. = 2.25 N. F.L. ELE. = 1.50 E. F.L. ELE. = 1.00 BOTTOM ELE. = (-) 0.50	D.S. #5 (ADS DRAIN BASIN) GRATE ELE. = 6.20 S.W. F.L. ELE. = 2.25 N. F.L. ELE. = 1.50 BOTTOM ELE. = (-) 0.50	D.S. #9 (ADS DRAIN BASIN) GRATE ELE. = 8.70 S. F.L. ELE. = 4.30
D.S. #3 (TYPE C INLET) GRATE ELE. = 5.00 S. F.L. ELE. = 0.79 (EXISTING 8") N.E. F.L. ELE. = 2.25 BOTTOM ELE. = 0.00	D.S. #6 (ADS DRAIN BASIN) GRATE ELE. = 7.50 +/- W. F.L. ELE. = 4.50	

CROSSING TABLE

C1 TOP 16" WM = 0.93 (CONTRACTOR TO FIELD VERIFY) BOT 15" RCP = 1.93	C2 TOP 16" WM = 0.93 (CONTRACTOR TO FIELD VERIFY) BOT 6" S.S. = 2.50 +/-	C3 TOP EXFILTRATION = 4.00 BOT 2" WS AND 6" FM = 4.50	C4 TOP 6" S.S. = 4.00 (CONTRACTOR TO VERIFY) BOT 2" WS AND 6" FM = 4.50	C5 TOP 10" DRAIN = 2.20 BOT 6" S.S. = 2.70 +/-
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GENERAL NOTES:

- ALL WORK INSIDE THE PROPERTY LINE SHALL BE COORDINATED WITH THE ARCHITECTURAL PLANS. THE CONCRETE PARKING AREAS, STRIPING, PARKING SPACES, HANDICAP FACILITIES, CURBING, ETC. DSHALL BE INSTALLED PER THE ARCHITECTURAL PLANS.
- PROPOSED DRAINAGE WITHIN THE PROPERTY LINE SHALL BE COORDINATED WITH THE PARKING INSTALLATION.
- ALL SERVICE CONNECTIONS TO THE BUILDING (WATER, SEWER, DRAINAGE, ETC.) SHALL BE COORDINATED WITH THE ARCHITECTURAL PLANS. THE CONTRACTOR SHALL REVIEW ALL PLANS AND VERIFY THAT ALL POINTS OF SERVICE ARE CONSISTENT BETWEEN ALL PLANS.
- GRADES SHOWN PROVIDED BY ARCHITECT.
- ALL PROPOSED GRADES SHALL BE REVIEWED AGAINST EXISTING GRADES WHERE NEW FACILITIES ARE MATCHING EXISTING FACILITIES. ALL SIDEWALKS AND RAMPS SHALL COMPLY WITH SLOPES TO CONFORM TO ADA REQUIREMENTS AND FDOT STANDARDS.
- GRADES, GEOMETRY, BANDING AND OTHER FEATURES IN PLAZA AREA UNDER BRIDGE PROVIDED BY SISKIND CARLSON & PARTNERS (SCP) ARCHITECTS. REFER TO PLANS PREPARED BY SCP FOR ADDITIONAL DETAILS IN PLAZA AREA. MAXIMUM SLOPES IN PLAZA SHALL NOT EXCEED 5% LONGITUDINALLY AND 2% CROSS SLOPES IN THE DIRECTION ON PEDESTRIAN TRAFFIC. CONTRACTOR SHALL VERIFY EXISTING GRADES AND REVIEW RELATIVE TO PROPOSED GRADE IN THIS AREA TO CONFIRM COMPLIANCE WITH SLOPE REQUIREMENTS. ALL WORK SHALL BE COORDINATED WITH THE BULKHEAD REMOVAL AND REPLACEMENT IN THIS AREA.

6. GRADES, GEOMETRY, BANDING AND OTHER FEATURES IN PLAZA AREA UNDER BRIDGE PROVIDED BY SISKIND CARLSON & PARTNERS (SCP) ARCHITECTS. REFER TO PLANS PREPARED BY SCP FOR ADDITIONAL DETAILS IN PLAZA AREA. MAXIMUM SLOPES IN PLAZA SHALL NOT EXCEED 5% LONGITUDINALLY AND 2% CROSS SLOPES IN THE DIRECTION ON PEDESTRIAN TRAFFIC. CONTRACTOR SHALL VERIFY EXISTING GRADES AND REVIEW RELATIVE TO PROPOSED GRADE IN THIS AREA TO CONFIRM COMPLIANCE WITH SLOPE REQUIREMENTS. ALL WORK SHALL BE COORDINATED WITH THE BULKHEAD REMOVAL AND REPLACEMENT IN THIS AREA.

* NOTE: CONFIRM ELEVATION WITH ARCHITECTURAL PLANS

MARK A. WILLIAMS, P.E.
FL LIC NO. 34944

CRAB POT SITE
PAVING AND DRAINAGE
PLAN
SOUTHERN DESIGN GROUP, INC.

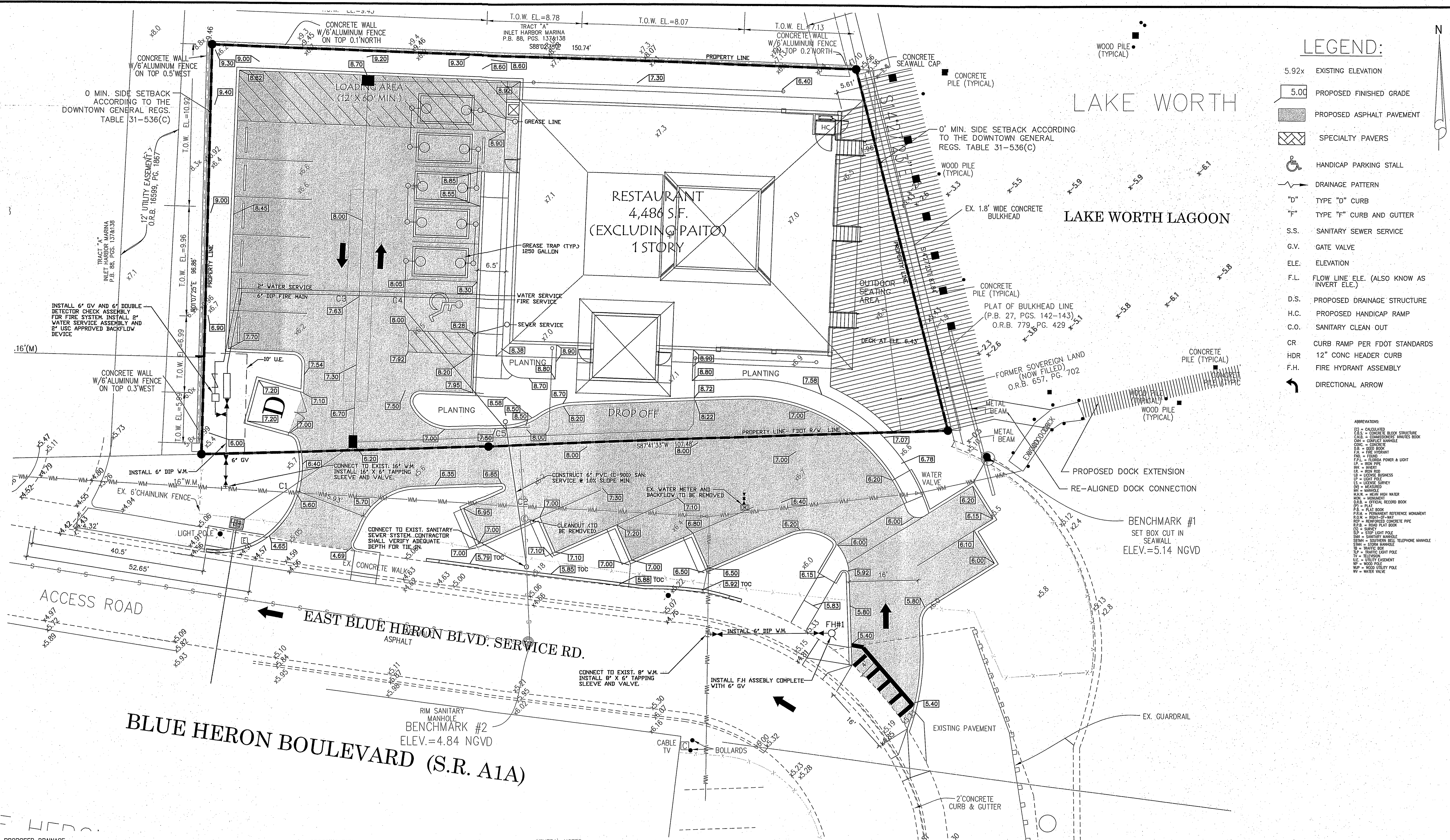
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 BY: MAW
 DESIGNED: MAW
 CHECKED: LVC
 SCALE: 1"=10'
 DRAWING NO.: 16027
 JOB NO.: 5142
 SHEET 2 OF 7

OCT 0 3 2016

LEGEND:

- 5.92x EXISTING ELEVATION
- 5.00 PROPOSED FINISHED GRADE
- PROPOSED ASPHALT PAVEMENT
- SPECIALTY PAVERS
- HANDICAP PARKING STALL
- DRAINAGE PATTERN
- "D" TYPE "D" CURB
- "E" TYPE "E" CURB AND GUTTER
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 - F.H. = FIRE HYDRANT
 - F.M. = FLOOD
 - F.P. = FLORIDA POWER & LIGHT
 - I.P. = IRON PIPE
 - IN. = INVERT
 - IS. = IRON SPOUT
 - LB. = LICENSE BUSINESS
 - LS. = LIGHT SURVEY
 - M. = MEASURED
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 - S.S. = SYSTEM MANHOLE
 - T.B. = TRAFFIC LIGHT POLE
 - T.V. = TELEVISION
 - U.E. = UTILITY EASEMENT
 - W.P. = WOOD POLE
 - W.U.P. = WOOD UTILITY POLE
 - W.V. = WATER VALVE



PROPOSED DRAINAGE STRUCTURES

D.S. #1 (TYPE C INLET)	GRATE ELE. = 8.70	S. F.L. ELE. = 1.50	BOTTOM ELE. = (-) 0.50
D.S. #2 (TYPE C INLET)	GRATE ELE. = 6.20	S.W. F.L. ELE. = 1.50	N. F.L. ELE. = 1.50
D.S. #3 (TYPE C INLET)	GRATE ELE. = 5.00	S. F.L. ELE. = 0.79 (EXISTING 8")	N. F.L. ELE. = 1.00
BOTTOM ELE. = (-) 0.50			

CROSSING TABLE

C1	TOP 16" WM = 0.93 (CONTRACTOR TO FIELD VERIFY)	BOT 15" RCP = 1.93
C2	TOP 16" WM = 0.93 (CONTRACTOR TO FIELD VERIFY)	BOT 6" S.S. = 2.50 +/-
C3	TOP INFILTRATION = 4.00	BOT 2" WS AND 6" FM = 4.50
C4	TOP 6" S.S. = 4.00 (CONTRACTOR TO VERIFY)	BOT 2" WS AND 6" FM = 4.50
C5	TOP 10" DRAIN = 2.20	BOT 6" S.S. = 2.70 +/-

GENERAL NOTES:

- ALL WORK INSIDE THE PROPERTY LINE SHALL BE COORDINATED WITH THE ARCHITECTURAL PLANS. THE CONCRETE PARKING AREAS, STRIPING, PARKING SPACES, HANDICAP FACILITIES, CURBING, ETC. SHALL BE INSTALLED PER THE ARCHITECTURAL PLANS.
- PROPOSED DRAINAGE WITHIN THE PROPERTY LINE SHALL BE COORDINATED WITH THE PARKING INSTALLATION.
- ALL SERVICE CONNECTIONS TO THE BUILDING (WATER, SEWER, DRAINAGE, ETC.) SHALL BE COORDINATED WITH THE ARCHITECTURAL PLANS. THE CONTRACTOR SHALL REVIEW ALL PLANS AND VERIFY THAT ALL POINTS OF SERVICE ARE CONSISTENT BETWEEN ALL PLANS.
- ALL PROPOSED GRADES SHALL BE REVIEWED AGAINST EXISTING GRADES WHERE NEW FACILITIES ARE MATCHING EXISTING FACILITIES. ALL SIDEWALKS AND RAMPS SHALL COMPLY WITH SLOPES TO CONFORM TO ADA REQUIREMENTS AND FDOT STANDARDS.
- DECKING ON THE EAST SIDE OF THE BUILDING

* NOTE: CONFIRM ELEVATION WITH ARCHITECTURAL PLANS

MARK A. WILLIAMS, P.E.
FL LIC NO. 34944

DATE		RECORD DRAWING DATA	BY
<p align="center">CRAB POT SITE WATER AND SEWER PLAN</p> <p align="center">SOUTHERN DESIGN GROUP, INC.</p> <p align="center">Engineering, Planning & Project Management 609 Hepburn Avenue, Suite 204 Jupiter, Florida 33458 561-743-0501</p>			
NO.	DATE	REVISIONS	BY
DESIGNED	MAW	E.B. # 5142	DATE 8/16
CHECKED	DVC	SCALE 1"=10'	JOB NO. 15027
DRAWN	MAW	DATE	DRAWING NO.

SHEET 3 OF 7
DATE: OCT 03 2016

GENERAL NOTES AND SPECIFICATIONS

CLEARING SHALL BE LIMITED TO CONSTRUCTION AREA AND/OR AS DIRECTED BY OWNER OR HIS REPRESENTATIVE. GRUBBING OF ALL STUMPS, ROOTS, BURIED LOGS OR OTHER OBJECTIONABLE MATERIALS SHALL BE TO A DEPTH OF 18 INCHES BELOW NATURAL GROUND. ALL DEBRIS SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF.

OWNER AND CONTRACTOR SHALL COORDINATE TO PROVIDE CONSTRUCTION SURVEY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING BUILDINGS, STRUCTURES, AND UTILITIES THAT ARE UNDER GROUND, ABOVE GROUND, OR ON THE SURFACE AGAINST CONSTRUCTION OPERATIONS THAT MAY BE HAZARDOUS TO SAID FACILITIES AND SHALL HOLD AND SAVE THE OWNER, HIS AGENTS AND/OR CONSULTANTS HARMLESS AGAINST ALL CLAIMS OR DAMAGE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED TESTS AND SHALL SUBMIT REPORTS FOR REVIEW AND APPROVAL. THE TESTS SHALL BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY. PAYMENT FOR TESTING PER CONTRACT WITH OWNER. ANY RETEST FOR FAILURE WILL BE AT THE CONTRACTOR'S EXPENSE.

ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER AND SHALL CONFORM WITH ALL APPLICABLE LOCAL, REGIONAL, STATE AND FEDERAL REGULATIONS AND/OR CODES. THE CONTRACTOR OR SUBCONTRACTORS SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO PROCEEDING WITH CONSTRUCTION. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FEDERAL, STATE, COUNTY AND, IF APPLICABLE, LOCAL MUNICIPAL REGULATIONS. THE LATEST EDITION OF FLORIDA DOT SPECIFICATIONS, DETAILS AND ADDENDA SHALL GOVERN AS APPLICABLE TO THE TYPE OF CONSTRUCTION.

PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL VISUALLY EXAMINE THE SITE OF CONSTRUCTION TO DETERMINE THE AMOUNT OF CLEARING AND EXISTING FACILITIES TO BE PROTECTED, REPLACED, REMOVED AND/OR RELOCATED WHICH MAY BE REQUIRED TO COMMENCE WORK. ALL CONTRACTOR'S SHALL PROTECT EXISTING IMPROVEMENTS THAT ARE CONTIGUOUS TO THE CONSTRUCTION AREA.

THE CONTRACTOR SHALL COORDINATE PROJECT CONSTRUCTION AND GIVE ADEQUATE NOTIFICATION TO ALL AFFECTED UTILITY OWNERS (IE: WATER AND SEWER UTILITY, FP&L, SO. BELL, CABLE, ETC.) WITH REGARD TO THE NEED FOR REMOVAL, RELOCATION OR ALTERATION OF THEIR EXISTING FACILITIES. UTILITY COMPANIES SHALL BE NOTIFIED 48 HOURS PRIOR TO COMMENCING CONSTRUCTION. CALL SUNSHINE-UTILITY NOTIFICATION CENTER- FOR LOCATION BEFORE EXCAVATION (1-800-432-4770).

THE CONTRACTOR SHALL ALSO COORDINATE AND NOTIFY APPLICABLE UTILITY AGENCY PERSONNEL AND ENGINEER FOR REQUIRED INSPECTIONS (MIN. 48 HR. NOTICE), AND SHALL SUPPLY ANY AND ALL EQUIPMENT NECESSARY TO PROPERLY TEST OR INSPECT THE WORK.

GUARANTY-ALL MATERIAL AND EQUIPMENT TO BE FURNISHED OR INSTALLED BY THE CONTRACTOR(S) UNDER THE CONSTRUCTION CONTRACT FOR THIS PROJECT SHALL BE GUARANTEED AGAINST DEFECTIVE MATERIALS, AND WORKMANSHIP. UPON RECEIPT OF NOTICE FROM THE OWNER OF FAILURE OF ANY PART OF THE INSTALLATION, GUARANTEED EQUIPMENT OR MATERIALS, DURING THE GUARANTY PERIOD, THE AFFECTED PART, PARTS OR MATERIALS SHALL BE REPLACED PROMPTLY WITH THE NEW PARTS OR MATERIALS BY THE CONTRACTOR, AT NO EXPENSE TO THE OWNER. IN THE EVENT THE CONTRACTOR FAILS TO MAKE THE NECESSARY REPLACEMENT OR REPAIRS WITHIN SEVEN DAYS AFTER NOTIFICATION BY THE OWNER, THE OWNER MAY ACCOMPLISH THE WORK AT THE EXPENSE OF THE CONTRACTOR.

ALL WORK SHALL BE ACCOMPLISHED IN A SAFE WORKMANLIKE MANNER. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS AND REGULATIONS OF ANY PUBLIC BODY HAVING JURISDICTION FOR THE SAFETY OF PERSONS OR PROPERTY OR TO PROTECT THEM FROM DAMAGE, INJURY OR LOSS; AND SHALL ERECT AND MAINTAIN ALL NECESSARY SAFEGUARDS FOR SUCH SAFETY AND PROTECTION. THE RESPONSIBILITY FOR PROJECT SAFETY RESTS SOLELY AND SPECIFICALLY WITH THE CONTRACTOR. SOUTHERN DESIGN GROUP, INC., THE OWNER, THE REGULATORY AGENCIES AND THEIR EMPLOYEES ARE SPECIFICALLY INDEMNIFIED AND HELD HARMLESS FROM ANY ACTIONS OF THE CONTRACTOR RELATING TO THE SAFETY PROCEDURES IMPLEMENTED DURING CONSTRUCTION AND FOR ANY CLAIMS BROUGHT BY ANY PERSONS REGARDING SAFETY, PERSONAL INJURY OR PROPERTY DAMAGE.

CONTRACTOR SHALL COORDINATE WITH OWNER AND ALL OTHER CONTRACTORS TO ENSURE PROPER CONSTRUCTION SEQUENCE OF PROJECT. THE SEQUENCE OF CONSTRUCTION SHALL BE SUCH THAT ALL UNDERGROUND UTILITIES SHALL BE INSTALLED PRIOR TO PAVEMENT CONSTRUCTION AND OTHER ABOVE GROUND IMPROVEMENTS.

ELEVATIONS- ALL ELEVATIONS REFER TO N.G.V.D.

RECORD DRAWINGS-THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN AND SUBMIT TO ENGINEER A COMPLETE DETAILED SET OF RECORD DRAWING DATA PREPARED BY A REGISTERED FLORIDA SURVEYOR. THE RECORD DRAWINGS SHALL ADHERE TO ANY AND ALL SPECIFIC CRITERIA OF THE WATER AND SEWER UTILITY AND ANY SPECIFICS REQUIRED BY THE ENGINEER.

UNDERGROUND CONTRACTOR SHALL SUBMIT ALL RECORD DATA TO THE ENGINEER FOR HIS REVIEW AND APPROVAL PRIOR TO PAVEMENT AND/OR CURB INSTALLATION. ANY NECESSARY ADJUSTMENT AT THIS TIME WILL BE THE RESPONSIBILITY OF THE UNDERGROUND CONTRACTOR.

FINAL ADJUSTMENT OF MANHOLE RIMS, VALVE BOXES, ETC. THAT ARE WITHIN ANY PAVED AREA, SHALL BE ADJUSTED AT THE TIME THE BASE MATERIAL IS IN PLACE, AND SHALL BE THE RESPONSIBILITY OF THE UNDERGROUND CONTRACTOR.

PAVING CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES. ANY DAMAGE TO THESE STRUCTURES BY THE PAVING CONTRACTOR SHALL BE THE PAVING CONTRACTOR'S RESPONSIBILITY TO COORDINATE REPAIR.

MATERIALS AND CONSTRUCTION:

ALL CONCRETE SHALL DEVELOP A 28 DAY MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI UNLESS OTHERWISE NOTED. CLASS I CONCRETE SHALL CONFORM WITH THE FLORIDA DOT SPECIFICATIONS, LATEST EDITION.

ALL STEEL SHALL BE DOMESTIC GRADE 60 (FY=60 KSI) AND CONFORM TO ASTM A-615 SPECIFICATIONS.

ALL MASONRY UNITS AND GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 1800 PSI AND SHALL MEET ALL NCMA SPECIFICATIONS AND RECOMMENDATIONS.

ALL STEEL SPLICES, CONSTRUCTION AND PLACEMENT, AND ALL STEEL TIES SHALL CONFORM TO NCMA AND ACI PRACTICES AND RECOMMENDATIONS.

IF MUCK IS ENCOUNTERED IN THE ROAD RIGHT-OF-WAY OR ANY OTHER PAVED OR BUILDING AREAS, IT SHALL BE COMPLETELY REMOVED AND SHALL BE BACKFILLED WITH CLEAN, GRANULAR MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF A REGISTERED FLORIDA SOILS ENGINEER.

IF HARDPAN IS ENCOUNTERED IN ROAD SIDE SWALES OR ANY AREA DESIGNATED FOR DRAINAGE, IT SHALL BE REMOVED TO A WIDTH OF 2 FEET AT THE SWALE INVERT, OR 5' OUTSIDE OF DRAINAGE AREA, AND SHALL BE COMPLETELY REPLACED WITH GRANULAR MATERIAL.

CONTRACTOR SHALL BE RESPONSIBLE TO PERFORM ALL EXCAVATION IN ACCORDANCE WITH THE DEPARTMENT OF LABOR - OCCUPATIONAL SAFETY AND HEALTH STANDARDS EXCAVATION: FINAL RULE (29 CFR PART 1926) FORM FEDERAL REGULATIONS TUESDAY OCTOBER 31, 1991 AND OSHA 2226 (REV. 1990) EXCAVATION AND TRENCHING STANDARDS.

SUBGRADE-SUBGRADE SHALL BE COMPACTED TO MEET THE DENSITY REQUIREMENTS AS DETERMINED BY THE AASHTO T-180 SPECIFICATIONS. SUBGRADE SHALL EXTEND A MINIMUM OF 12 INCHES BEYOND THE PROPOSED EDGE OF PAVEMENT AND THE ENTIRE DEPTH SHALL BE COMPACTED TO 98% OF MAXIMUM DENSITY. ALL STUMPS, ROOTS OR OTHER DELETERIOUS MATTER ENCOUNTERED IN THE PREPARATION OF THE SUBGRADE SHALL BE REMOVED TO A DEPTH OF 3 FEET BELOW THE FINISHED ROAD GRADE. ALL SUCH MATERIAL/MATTER SHALL BE REMOVED WITHIN 8 FEET OF THE EDGE OF PAVEMENT. THE SUBGRADE SHALL BE COMPACTED AND STABILIZED AS SHOWN IN THE DETAILS WITH BEARING AND DENSITY DETERMINATIONS TO BE MADE BY THE APPLICABLE LATEST FLORIDA DOT SPECIFICATIONS.

BASE - BASE MATERIAL SHALL BE COMPACTED TO NOT LESS THAN 98% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 SPECIFICATIONS AND AS CALLED FOR IN THE FLORIDA DOT SPECIFICATIONS, LATEST EDITION-SECTION 250. BASE GREATER THAN 6" SHALL BE CONSTRUCTED IN TWO EVEN LIFTS OR 4" INTERVALS AND 6" BEYOND THE EDGE OF PAVEMENT.

PRIME COAT - BITUMINOUS PRIME COAT SHALL CONFORM WITH THE REQUIREMENTS OF THE FLORIDA DOT SPECIFICATIONS, LATEST EDITION-SECTION 300, AND SHALL BE APPLIED AT A RATE OF 0.25 GALLONS PER SQUARE YARD UNLESS OTHERWISE NOTED.

TACK COAT - BITUMINOUS TACK COAT SHALL CONFORM WITH THE REQUIREMENTS OF THE FLORIDA DOT SPECIFICATIONS, LATEST EDITION-SECTION 330 AND SHALL BE APPLIED AT THE MINIMUM RATE OF 0.08 GALLONS PER SQUARE YARD UNLESS OTHERWISE NOTED.

SURFACE COURSE - ASPHALTIC CONCRETE SURFACE COURSE SHALL CONFORM WITH THE REQUIREMENTS OF THE FLORIDA DOT SPECIFICATIONS, LATEST EDITION SECTION 331. THE MINIMUM COMPACTED THICKNESS IS AS NOTED IN PLANS.

INLETS SHALL BE THE TYPE DESIGNATED ON THE PLANS AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH FLORIDA DOT SPECIFICATIONS, LATEST EDITION-SECTION 425, UNLESS OTHERWISE NOTED IN THE PLANS.

CORRUGATED ALUMINUM PIPE (CAP (H)) SHALL BE SMOOTH WALL (INTERIOR) AND CONFORM WITH THE FLORIDA DOT SPECIFICATIONS, LATEST EDITION-SECTION 945. PIPE SHALL BE HELICAL OR HIGH FLOW HAVING THE THE HYDRAULIC EQUIVALENT OF CONCRETE PIPE. PIPE SIZES ARE AS SHOWN IN THE PLANS. ALL JOINTS IN STORM SEWER PIPE SHALL BE MADE WITH EITHER 1/2 INCH NEOPRENE OR 1/4 INCH STRIP SEALANT GASKET MATERIAL. ALL BANDS SHALL BE 12 INCHES WIDE. THE PIPE SHALL CONFORM WITH FLORIDA DOT SPECIFICATIONS, LATEST EDITION. CORRUGATED ALUMINUM PIPE SHALL NOT BE CONSTRUCTED UNDER PAVED AREAS, UNLESS OTHERWISE NOTED IN THE PLANS.

REINFORCED CONCRETE PIPE (RCP) SHALL CONFORM WITH THE REQUIREMENTS OF TABLE III OF ASTM C-76 AND WITH THE FLORIDA DOT SPECIFICATIONS, LATEST EDITION-SECTION 941. REQUIREMENTS FOR PIPE BACKFILL SHALL BE AS DEFINED BY FLORIDA DOT SPECIFICATIONS, LATEST EDITION SECTION 125-8. PIPELINE BACKFILL SHALL BE PLACED AND TESTED IN 6 INCH LIFTS AND COMPACTED TO 100% OF THE STANDARD PROCTOR (AASHTO T-99 SPECIFICATIONS).

ALL PIPE JOINTS SHALL BE WRAPPED WITH FILTER FABRIC JACKET IN ACCORDANCE WITH FDOT INDEX 280.

ALL STREET PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH MUTCD.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND REGULATIONS. TRAFFIC CONTROL SHALL ALSO BE IN ACCORDANCE WITH FLORIDA DOT INDEX 600.

IF WITHIN PALM BEACH COUNTY JURISDICTION, PAVEMENT MARKINGS AND SIGNAGE SHALL BE IN ACCORDANCE WITH THE MUTCD FOR STREETS AND HIGHWAYS AND PALM BEACH COUNTY TYPICAL NO. T-P-13. ALL STRIPING IN THE PARKING AREAS AND SITE SHALL CONFORM TO APPLICABLE LOCAL OR COUNTY CODES.

UTILITY CONDUITS/IRRIGATION CONDUITS SHALL BE PLACED PER OWNER'S DIRECTIONS AND CLEARLY MARKED AFTER CONSTRUCTION. CONTRACTOR SHALL OBTAIN RECORD DRAWING DATA ON ALL CROSSING.

PRE-CONSTRUCTION CONFERENCE:

A PRECONSTRUCTION CONFERENCE WITH THE OWNER, ENGINEER, CONTRACTORS AND ANY INVOLVED PARTIES WILL BE SCHEDULED BY THE PRIME CONTRACTOR PRIOR TO THE INITIATION OF CONSTRUCTION.

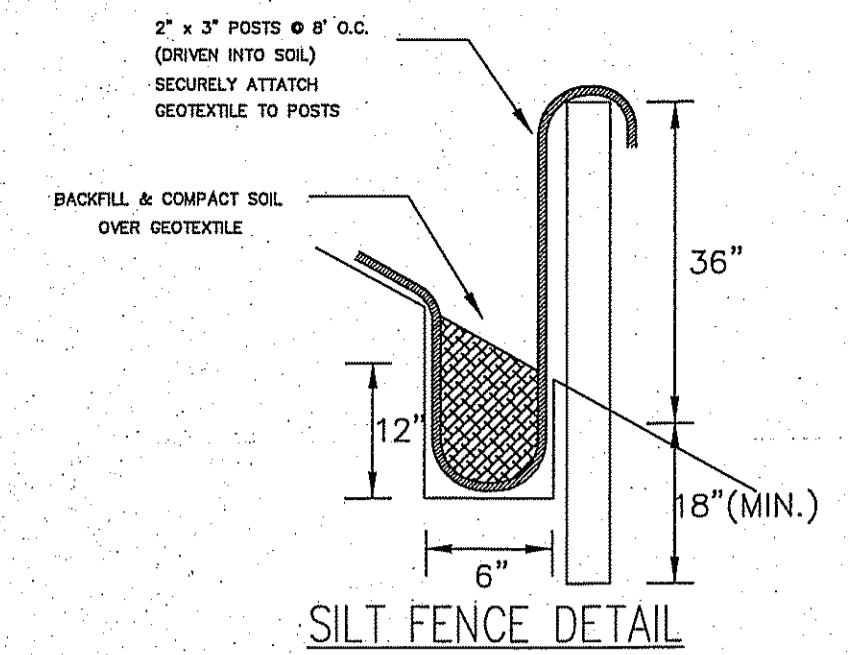
MINIMUM CONSTRUCTION CHECKPOINTS:
 THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR HIS REPRESENTATIVE FOR AN INSPECTION OF THE FOLLOWING CHECK POINTS INCLUDING BUT NOT LIMITED TO:
 -PRIOR TO ANY MAJOR DEVIATIONS FROM THE APPROVED PLANS.
 -PRIOR TO BACKFILLING ANY HYDRAULIC CONDUITS OR STRUCTURES. -UPON COMPLETION OF SUBGRADE COMPACTION
 -UPON COMPLETION OF BASE CONSTRUCTION -CONCRETE POURS FOR POURED IN PLACE STRUCTURES -LAMPING OF ALL SANITARY MAINS -PRIOR TO WATER MAIN FLUSHING
 -PRESSURE TESTING OF WATER MAINS -PRIOR TO ANY CONNECTION TO EXISTING FACILITIES
 NOTE: ANY TESTS OR OBSERVATIONS REQUIRED BY THE UTILITY COMPANY OR REGULATORY AGENCIES THAT ARE IN ADDITION TO THE ABOVE SHALL BE COMPLIED WITH.

SITE COORDINATION NOTES

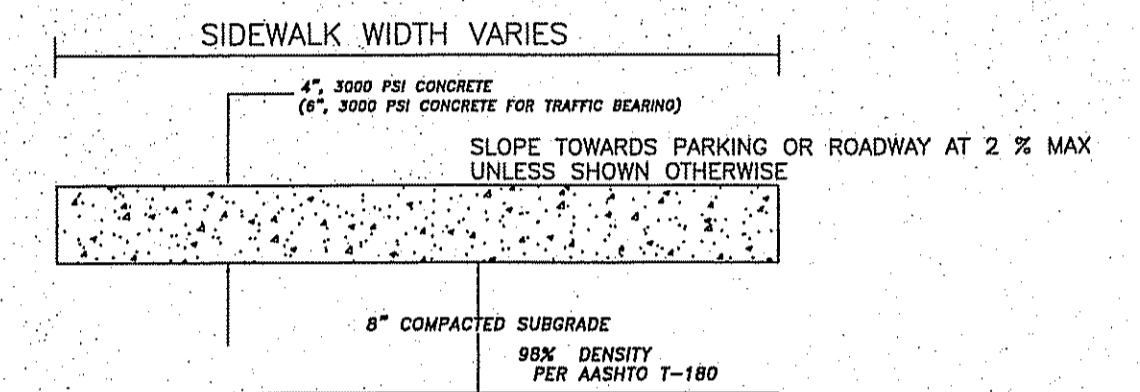
GENERAL NOTES (AS APPLICABLE):
 - CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL CONDUITS AND UNDERGROUND LINES FOR IRRIGATION, ELECTRIC, PHONE, ETC. WITH THE PAVING AND DRAINAGE FACILITIES TO ASSURE THAT THE LINES AREA INSTALLED PRIOR TO THE INSTALLATION OF THE PAVEMENT SECTION.
 - CONTRACTOR SHALL COMPLETE ALL SITE GRADING PRIOR TO THE INSTALLATION OF LANDSCAPING.
 -GRASSING AND SODDING SHALL BE IN ACCORDANCE WITH LANDSCAPE PLANS
 -CONTRACTOR SHALL PROTECT POWER POLES, GUY WIRES, ETC. FROM DAMAGE DURING CONSTRUCTION. ANY CONFLICTS WITH THE PROPOSED IMPROVEMENTS SHALL BE COORDINATED DIRECTLY WITH THE AFFECTED UTILITY COMPANY. CONTRACTOR TO COORDINATE DIRECTLY WITH UTILITY COMPANY FOR SECURING POLES DURING CONSTRUCTION, AS NEEDED.
 -STRIPING SHALL BE IN ACCORDANCE WITH CURRENT PBC CODES AND CONTRACTOR SHALL VERIFY STRIPING REQUIREMENTS FOR ALL STRIPED AREAS PRIOR TO STRIPING
 -ALL CATCH BASINS SHALL HAVE CLEAN MURAFI FILTER FABRIC PLACED ON THEM AND ANY AND ALL CONTRACTORS SHALL TAKE ALL REQUIRED ACTIONS TO PREVENT SOIL EROSION INTO THE DRAINAGE SYSTEM. MANHOLES, RECEIVING WATERS, ETC.
 -UPON COMPLETION OF CONSTRUCTION ALL DISTURBED AREAS INCLUDING EXISTING FACILITIES, RIGHTS-OF-WAY, SIDEWALKS, LANDSCAPING, ETC. SHALL BE FULLY RESTORED.
 -UPON COMPLETION OF ANY AND ALL SLOPES WITHIN THE PROJECT, PROTECTION MEASURES SUCH AS SOD, PLANTINGS, AND/OR TEMPORARY FILTER FABRICS SHALL BE INSTALLED TO PREVENT EROSION.

DRAINAGE SYSTEM FINAL INSPECTION NOTE:

ALL DRAINAGE SYSTEMS SHALL BE PUMPED DOWN TO BELOW ONE-THIRD OF THE DIAMETER OF THE PIPE (FROM THE INVERT) AND LAMPED AS A REQUIREMENT OF THE FINAL DRAINAGE INSPECTION.

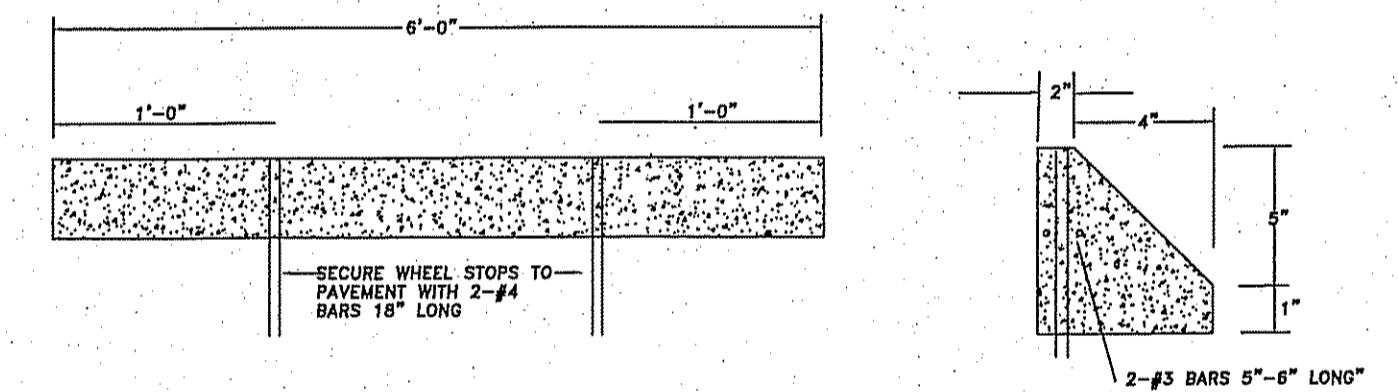


- NOTES:
 1. CONTRACTOR TO REMOVE SEDIMENT WHEN DEPOSIT REACHES 1/2 THE HEIGHT OF SILT FENCE.
 2. GEOTEXTILE SHALL BE SPUN TOGETHER ONLY AT SUPPORT POSTS, WITH A 6" OVERLAP.
 3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF THE SILT FENCES.
 4. SILT FENCES SHALL REMAIN IN PLACE UNTIL REMOVAL IS DIRECTED BY THE ENGINEER.

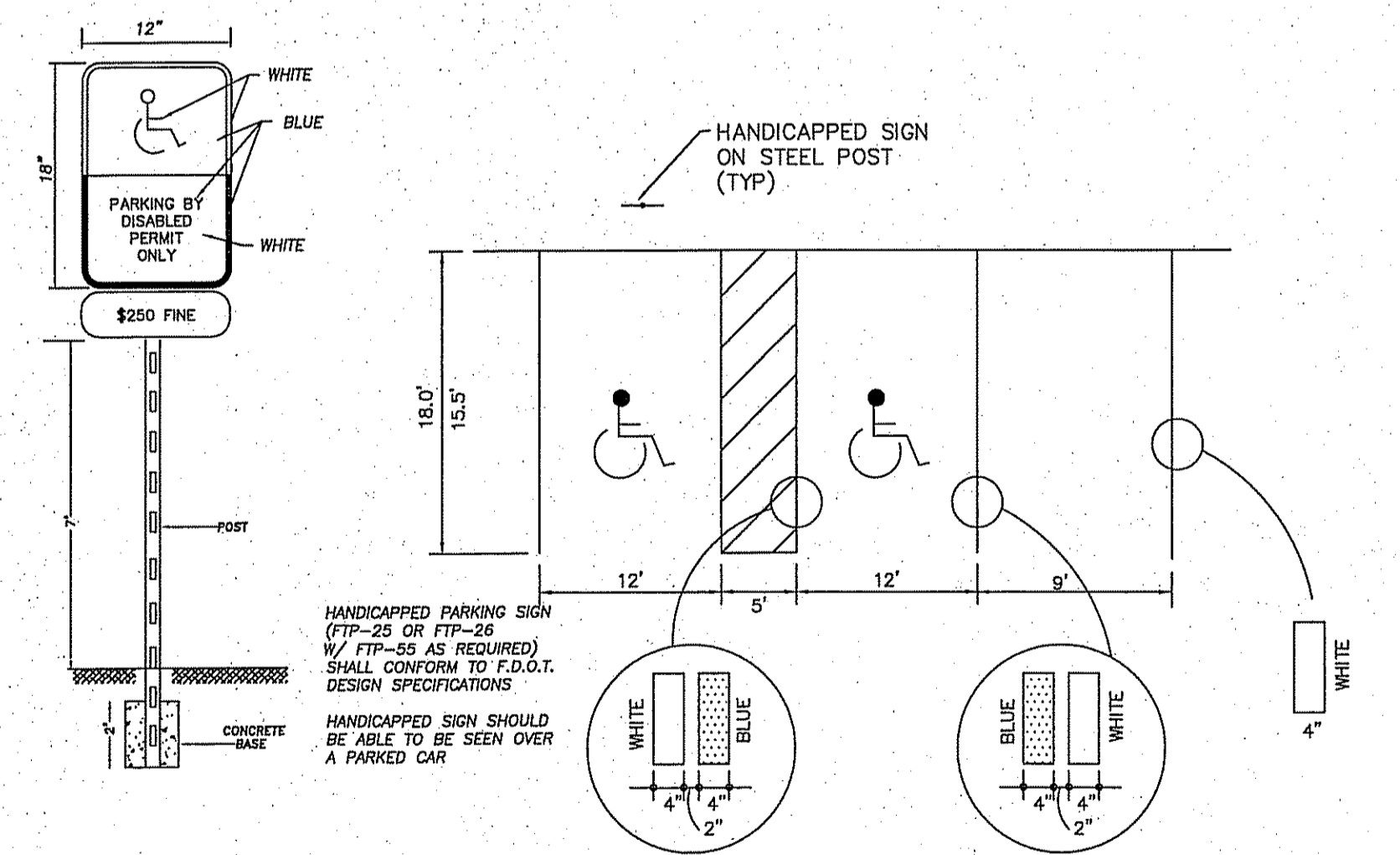


CONCRETE SIDEWALK SECTION DETAIL

NOTE: REFER TO FDOT INDEX 310 FOR ADDITIONAL INFORMATION AND SPECIFICATIONS



CONCRETE WHEEL STOP



HANDICAP PARKING AND STRIPING DETAIL

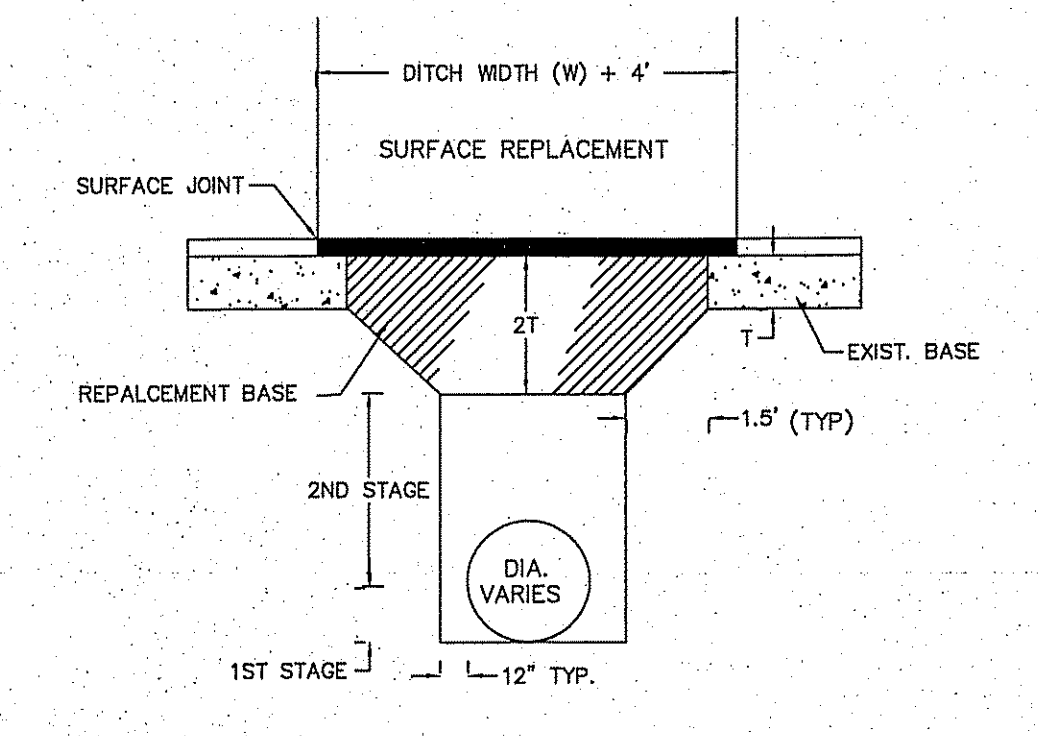
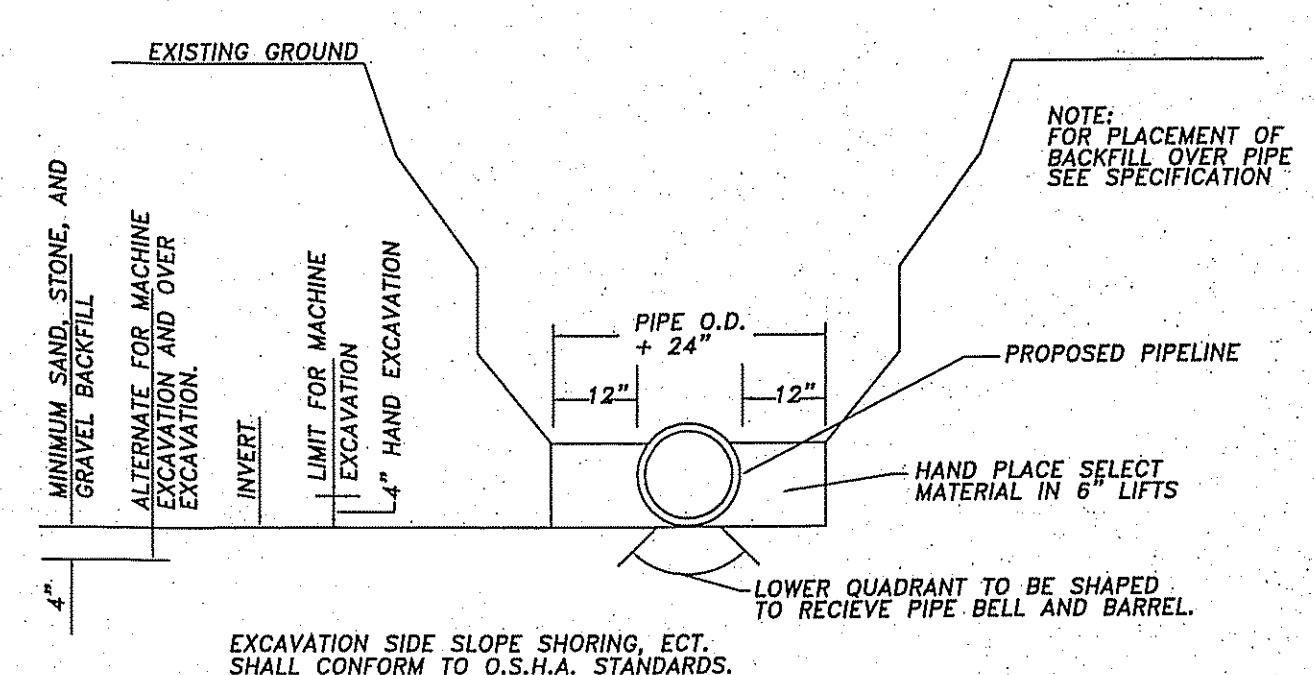
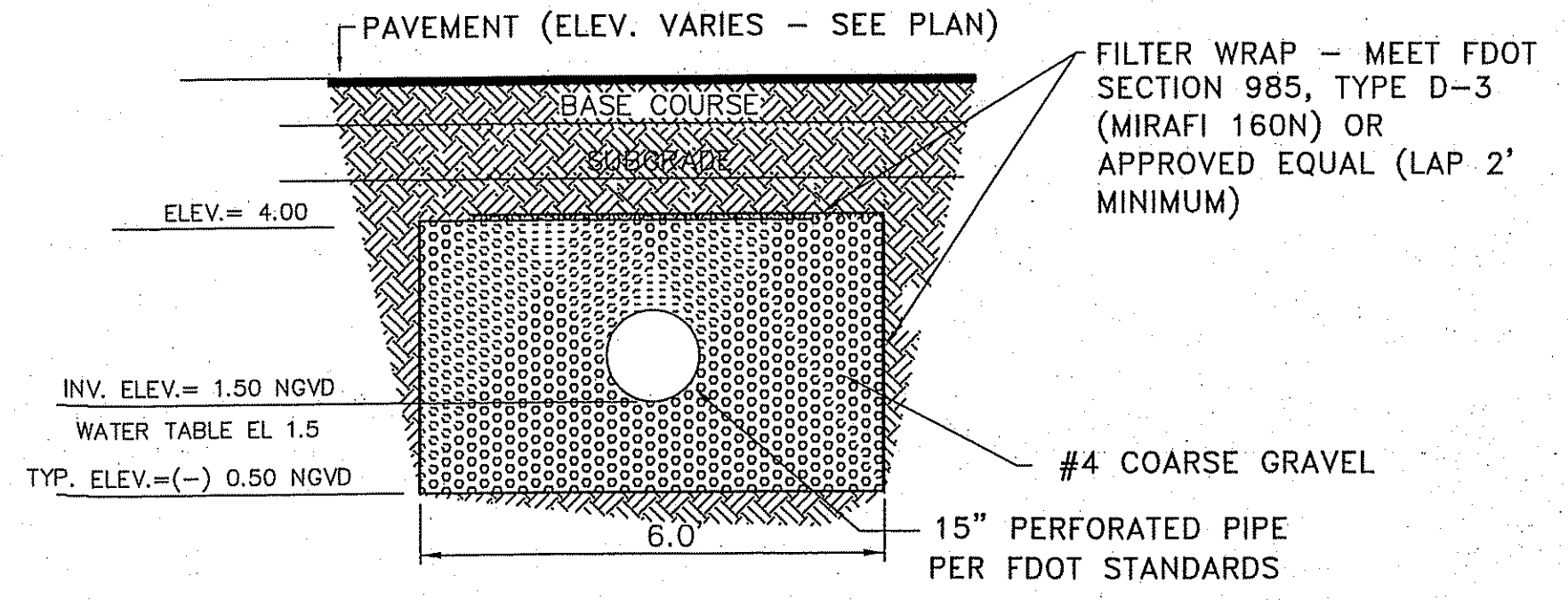
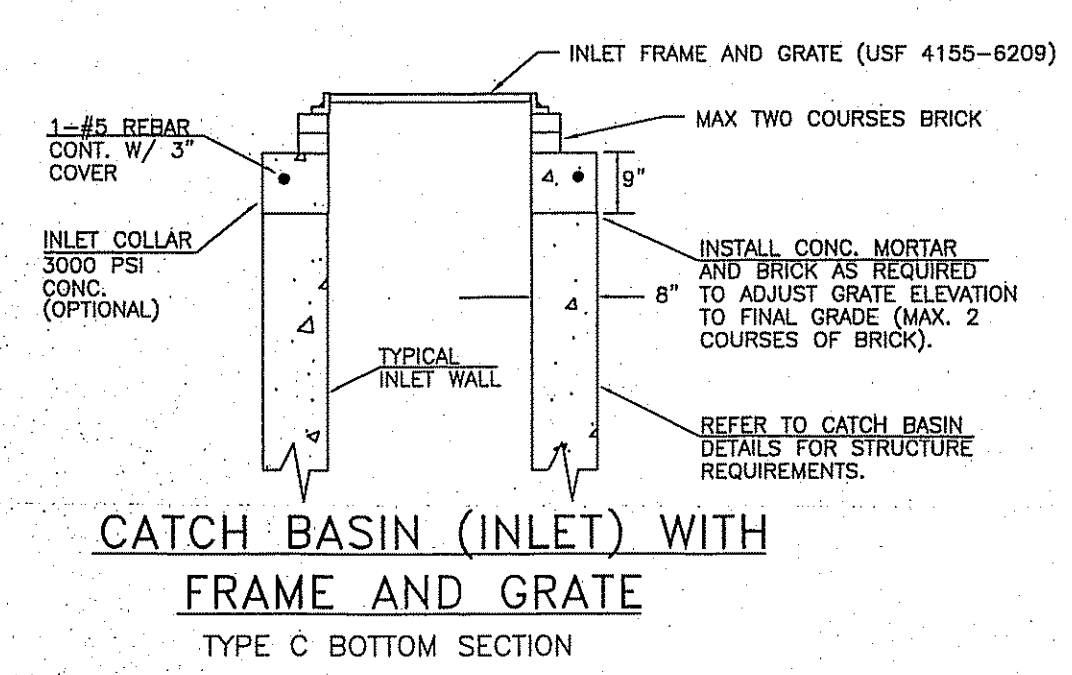
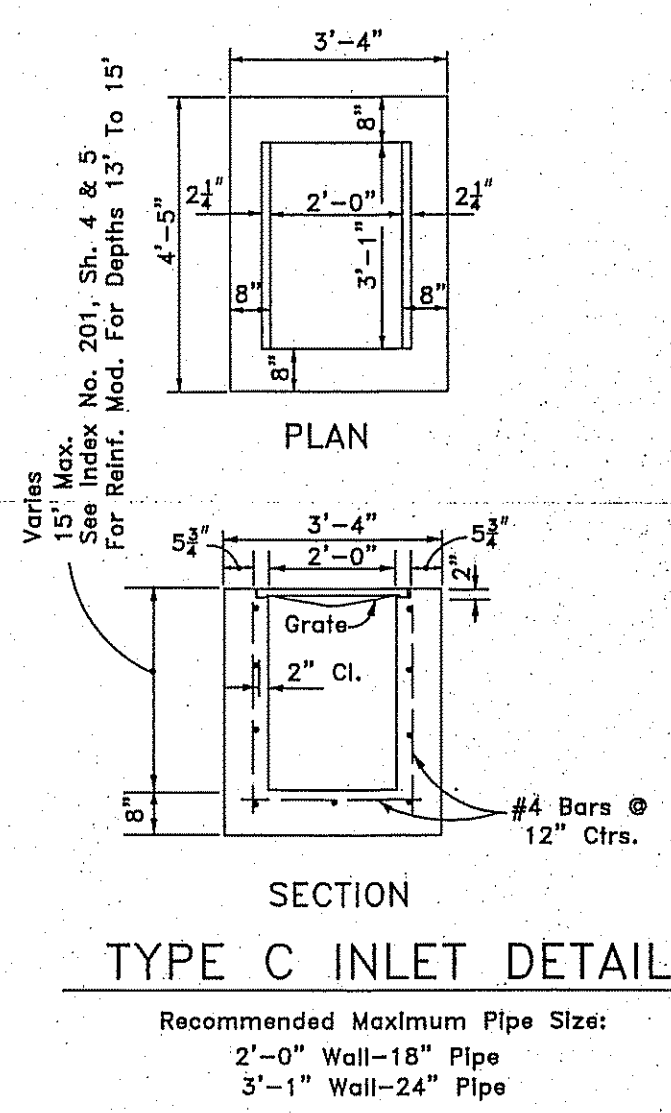
NOTE: CONTRACTOR TO VERIFY ALL LOCAL STRIPING REQUIREMENTS AND CURRENT ADA HC STRIPING PRIOR TO CONSTRUCTION. IF CURRENT WRITTEN CODE DIFFERENT FROM DETAIL CURRENT WRITTEN CODE SHALL BE ADHERED TO.

VERIFY WITH THE CITY OF RIVIERA BEACH

MARK A. WILLIAMS, P.E.
 FL LIC NO. 34944

DATE		RECORD DRAWING DATA		BY	
CRAB POT SITE PAVING AND DRAINAGE DETAILS					
SOUTHERN DESIGN GROUP, INC.					
Engineering, Planning & Project Management 608 Hepburn Avenue, Suite 204 Jupiter, Florida 33458 561-743-0501					
DRAWN	FIELD BOOK	DATE	JOB NO.		
MAW	E.P.#5142	9/18	15027		
DESIGNED	CHECKED	SCALE	DRAWING NO.		
BMU/MAW	MAW	NTS			
NO.	DATE	REVISIONS	BY		

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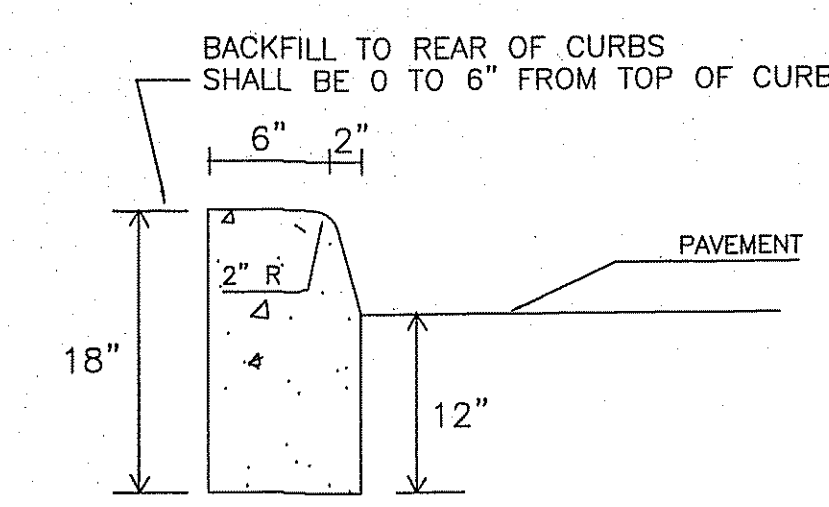
GENERAL NOTES

- Inlets shall have 8" minimum wall thickness and all grates shall be domestic.
- Inlets subject to minimal debris should be constructed without slots. Where debris is a problem inlets should be constructed with slots. Slotted inlets located within roadway clear zones and in areas accessible to pedestrians shall have traversable slots. The traversable slot modification is not adaptable to Inlet Type H. Slots may be constructed at either or both ends as shown on plans.
- Steel grates are to be used on all inlets where bicycle traffic is anticipated. Steel grates are to be used on all inlets with traversable slots. Either cast iron or steel grates may be used on inlets without slots where bicycle traffic is not anticipated. Either cast iron or steel grates may be used on all inlets with non-traversable slots.
- Recommended maximum pipe sizes shown are for concrete pipe. Pipe sizes larger than those recommended must be checked for fit.
- All exposed corners and edges of concrete are to be chamfered.
- Sodding to be used on all inlets not located in paved areas.
- For supplementary details see F.D.O.T. Index No. 201.
- GRATES IN GRASS AREAS SHALL BE USF 6210
- FRAME AND GRATES IN PAVED AREAS SHALL BE USF 4155-6209

A SUMP 2' BELOW THE MINIMUM FLOW LINE ELEVATION MUST BE PROVIDED FOR ALL DRAINAGE STRUCTURES

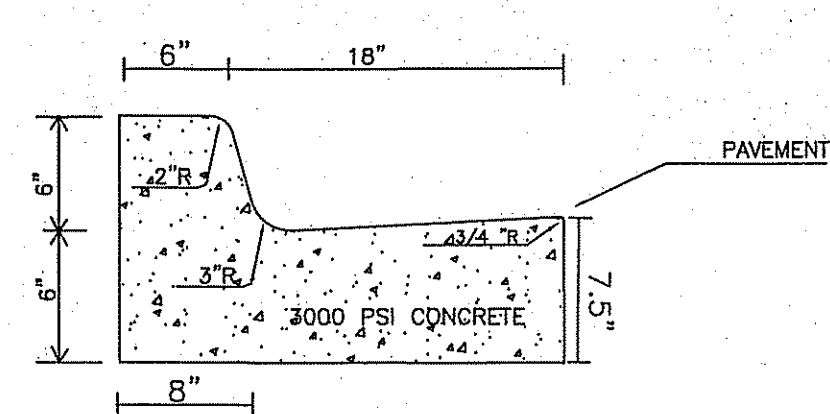
EXFILTRATION TRENCH TYPICAL SECTION N.T.S.

NOTE: NON-PERFORATED PIPE TO BE INSTALLED 8' FROM STRUCTURE. TRENCH TO END 5' FROM STRUCTURE. TERMINATE TRENCH PER F.D.O.T. INDEX NO. 285 FOR ADDITIONAL INFORMATION REFERENCE F.D.O.T. INDEX NO. 285



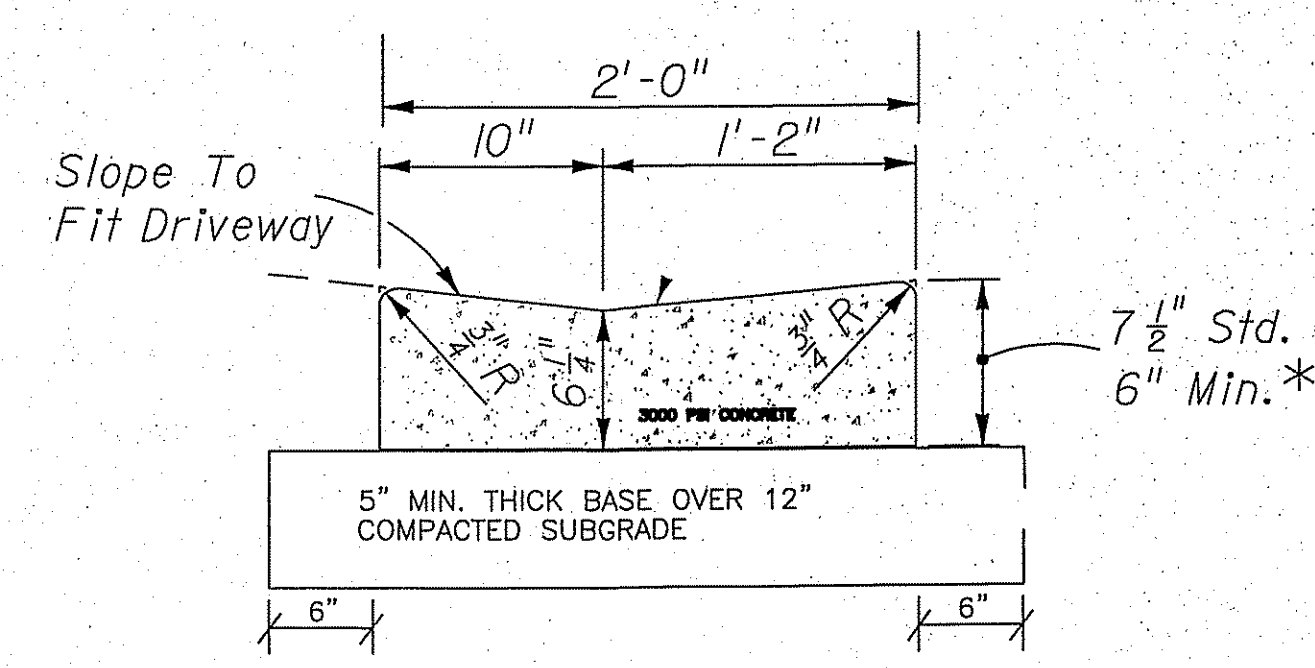
TYPE "D" CURB

NOTE: CONST. 2" TAPER AT ENDS OF ALL D CURB THAT DO NOT MEET A BUILDING WALL, SIDEWALK, ETC.



TYPE "F" CURB

FOR ADDITIONAL INFORMATION, REFER TO FDOT INDEX # 300



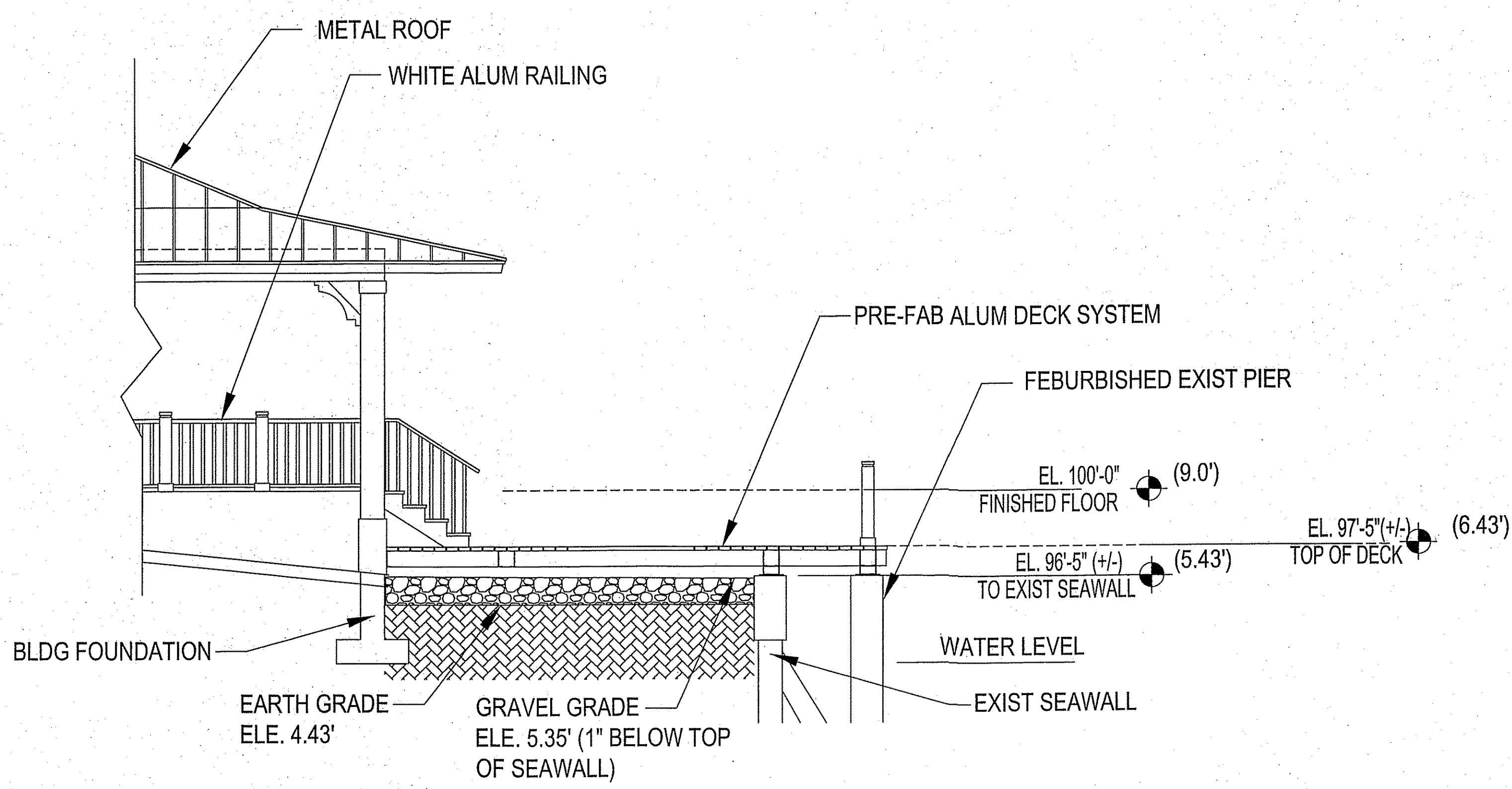
DROP CURB DETAIL

USE 3000 PSI CONCRETE

DENSITY PROCEDURES:

- THE BACKFILL FOR THE FIRST AND SECOND STAGES SHALL BE PLACED IN 6" LAYERS (COMPACTED THICKNESS) AND SHALL BE COMPACTED TO 100% OF MAXIMUM DENSITY PER AASHTO T-99.
- STAGE #1:**
THE PERMITTEE SHALL PROVIDE ADEQUATE COMPACTED FILL BENEATH THE HAUNCHES OF THE PIPE, USING MECHANICAL TAMPS SUITABLE FOR THIS PURPOSE. THIS COMPACTION APPLIES TO THE MATERIAL PLACED BENEATH THE HAUNCHES OF THE PIPE AND ABOVE ANY BEDDING REQUIRED.
- STAGE #2:**
THE PERMITTEE SHALL OBTAIN A WELL COMPACTED BED AND FILL ALONG THE SIDES OF THE PIPE TO A POINT INDICATING THE TOP OF SUBGRADE MATERIAL.
- GENERAL NOTES:**
- BASE AND BACKFILL MATERIALS SHALL BE EITHER OF THE SAME TYPE AND COMPOSITION AS THE MATERIALS REMOVED, OR OF EQUAL OR GREATER STRUCTURAL ADEQUACY. MATERIALS CONTAMINATED WITH DELETERIOUS SUBSTANCES DURING EXCAVATION SHALL NOT BE USED.
 - REPLACED BASE MATERIAL OVER DITCH SHALL BE TWICE THE THICKNESS OF THE ORIGINAL BASE.
 - BASE MATERIAL SHALL BE PLACED IN TWO OR THREE LAYERS AND EACH LAYER THOROUGHLY ROLLED OR TAMPED TO THE SPECIFIED DENSITY.
 - ASPHALT CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED.
 - SURFACE TREATED PAVEMENT JOINTS SHALL BE BUTT JOINTS.
 - SURFACE MATERIAL WILL BE CONSISTENT WITH THE EXISTING SURFACE.
 - LIMEROCK BASE SHALL BE INSTALLED IN 6" LAYERS WITH THE FOLLOWING DENSITY REQUIREMENTS PER AASHTO T-180:
 - 98% UNDER ROADWAY
 - 95% OUTSIDE THE TRAVELED ROADWAY, SUCH AS INTERSECTIONS, CROSSOVERS, TURNOUTS, ETC.
 - 95% SHOULDER PAVEMENT

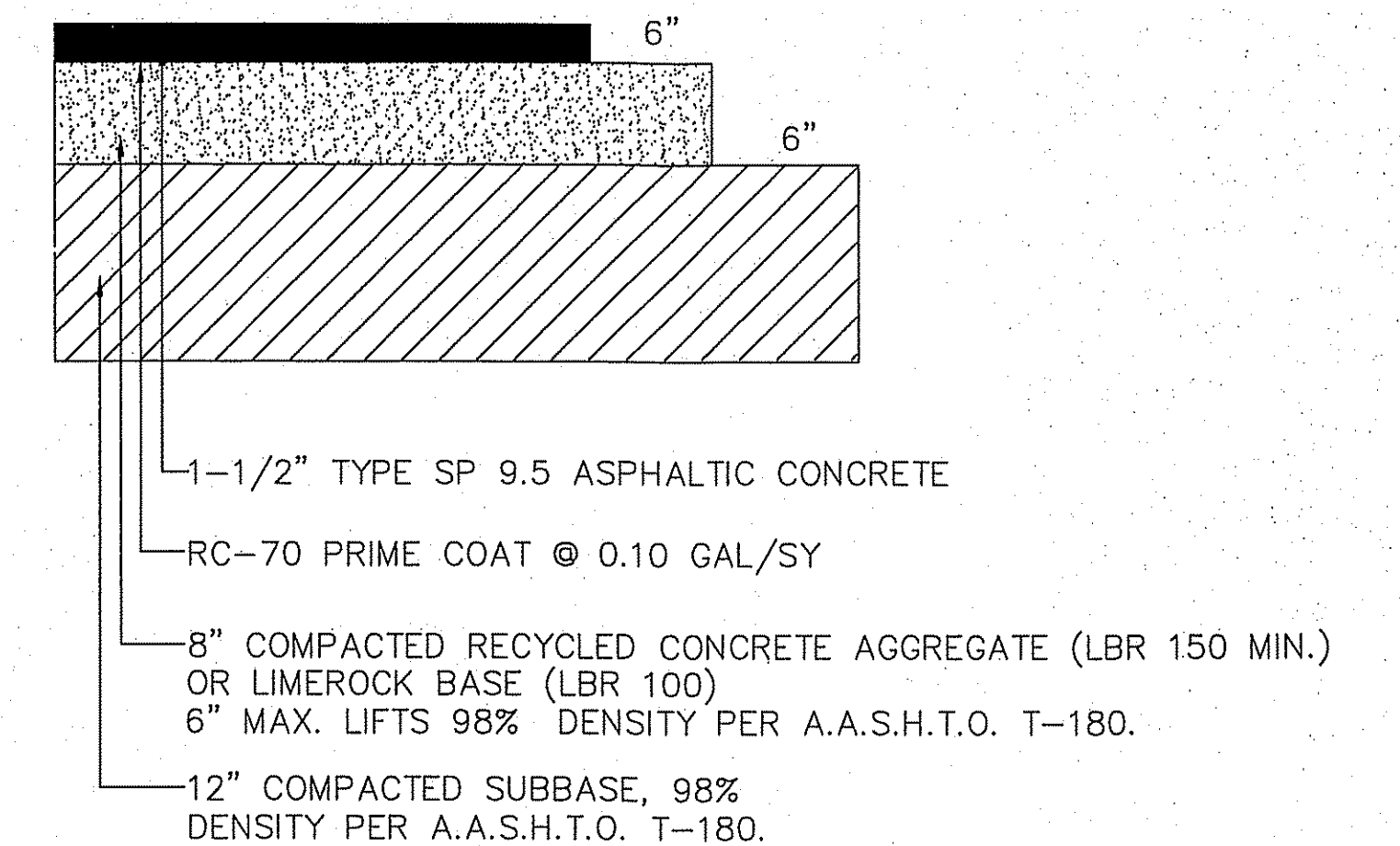
REPLACEMENT OF FLEXIBLE PAVEMENT FOR PERMITTED PAVEMENT CUT PAVEMENT RESTORATION DETAIL



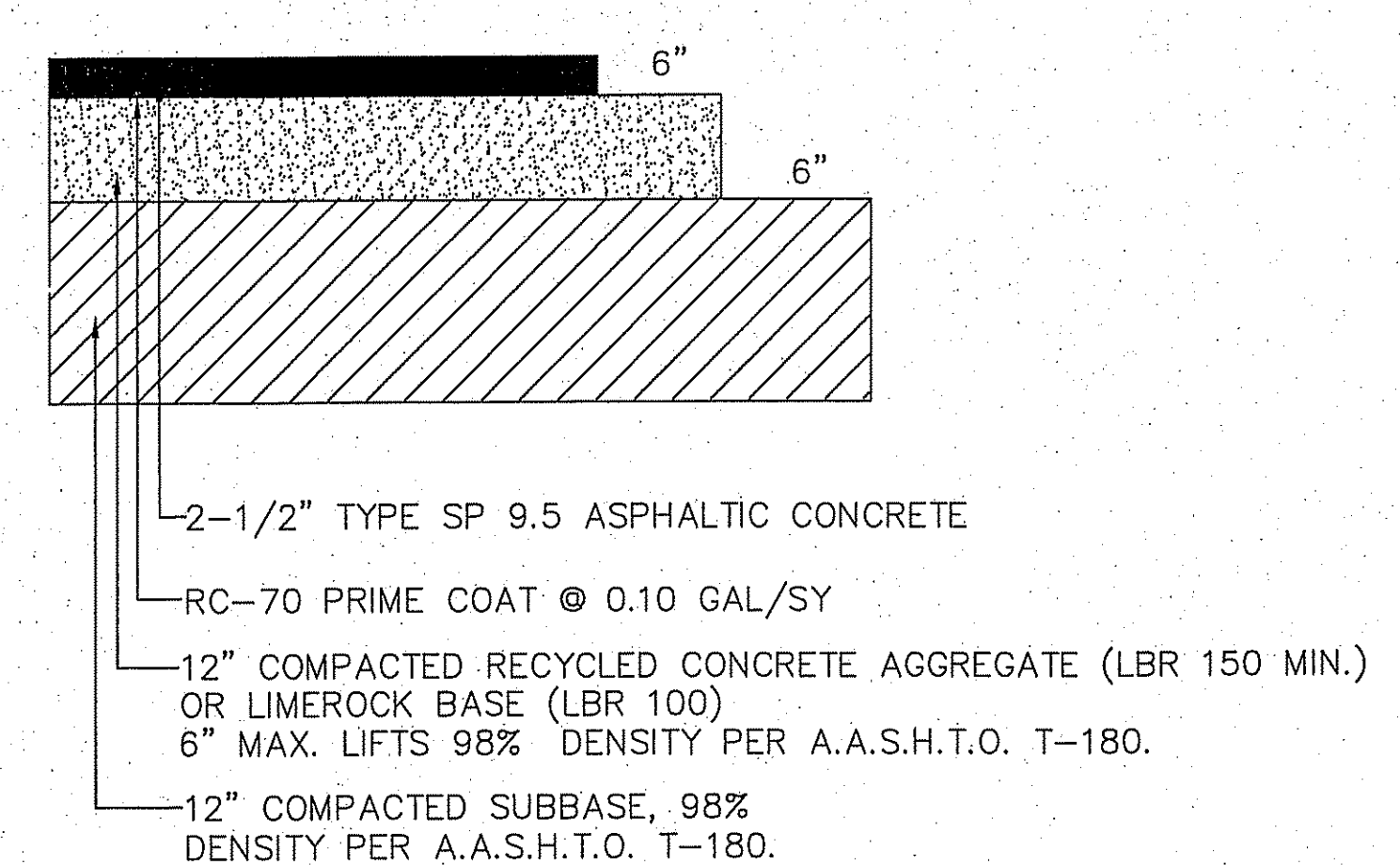
SECTION A-A LOWER LEVEL DECK DETAIL

NOTE:
1. INSTALL 2 LAYERS OF MIRAFI 160N (FDOT TYPE D-3) OR EQUAL FILTER FABRIC ON GRADE PRIOR TO INSTALLATION OF COURSE GRAVEL. OVERLAP FABRIC 2' MINIMUM. FABRIC SHALL BE TURNED UP AGAINST THE BUILDING AND SEAWALL TO FINAL GRADE. FABRIC SHALL ALSO BE TURNED UP AT ALL TERMINATIONS OR THE DECK TO MATCH GRADE ADJACENT TO DECK.

FILTER WRAP - MEET FDOT SECTION 985, TYPE D-3 (MIRAFI 160N) OR APPROVED EQUAL (LAP 2' MINIMUM)



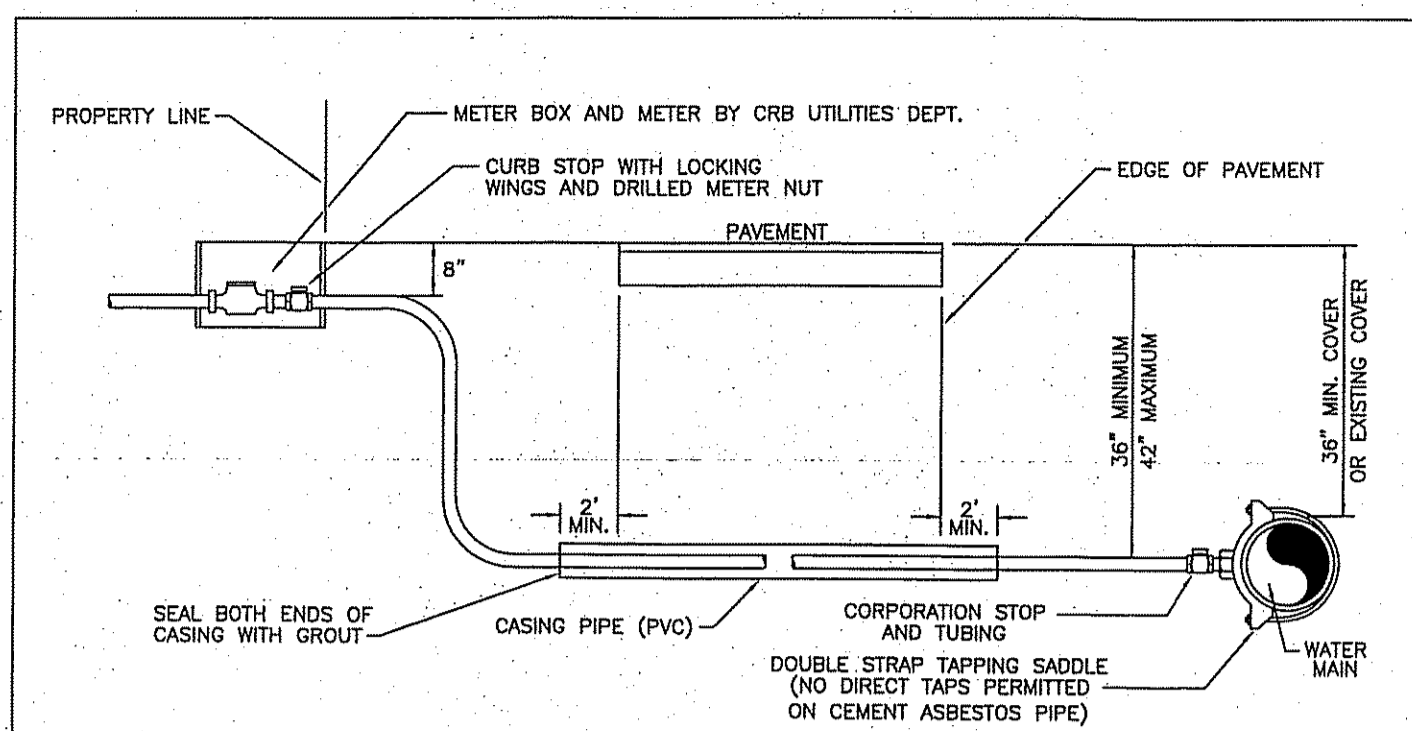
ON-SITE TYPICAL PAVEMENT SECTION



TYPICAL PAVEMENT SECTION FDOT RIGHT OF WAY

DATE		RECORD DRAWING DATA	BY	CRAB POT SITE PAVING AND DRAINAGE DETAILS	
				SOUTHERN DESIGN GROUP, INC.	
				Engineering, Planning & Project Management 609 Hepburn Avenue, Suite 204 Jupiter, Florida 33468 561-743-0501	
DRAWN MAW		FIELD BOOK E.B.#5142	DATE 9/16	JOB NO. 15027	
DESIGNED BMU/MAW		CHECKED MAW	SCALE NTS	DRAWING NO.	
NO.	DATE	REVISIONS	BY		
				SHEET 5 OF 7	
				DATE: OCT 3 2016	

MARK A. WILLIAMS, P.E.
FL LIC NO. 34944



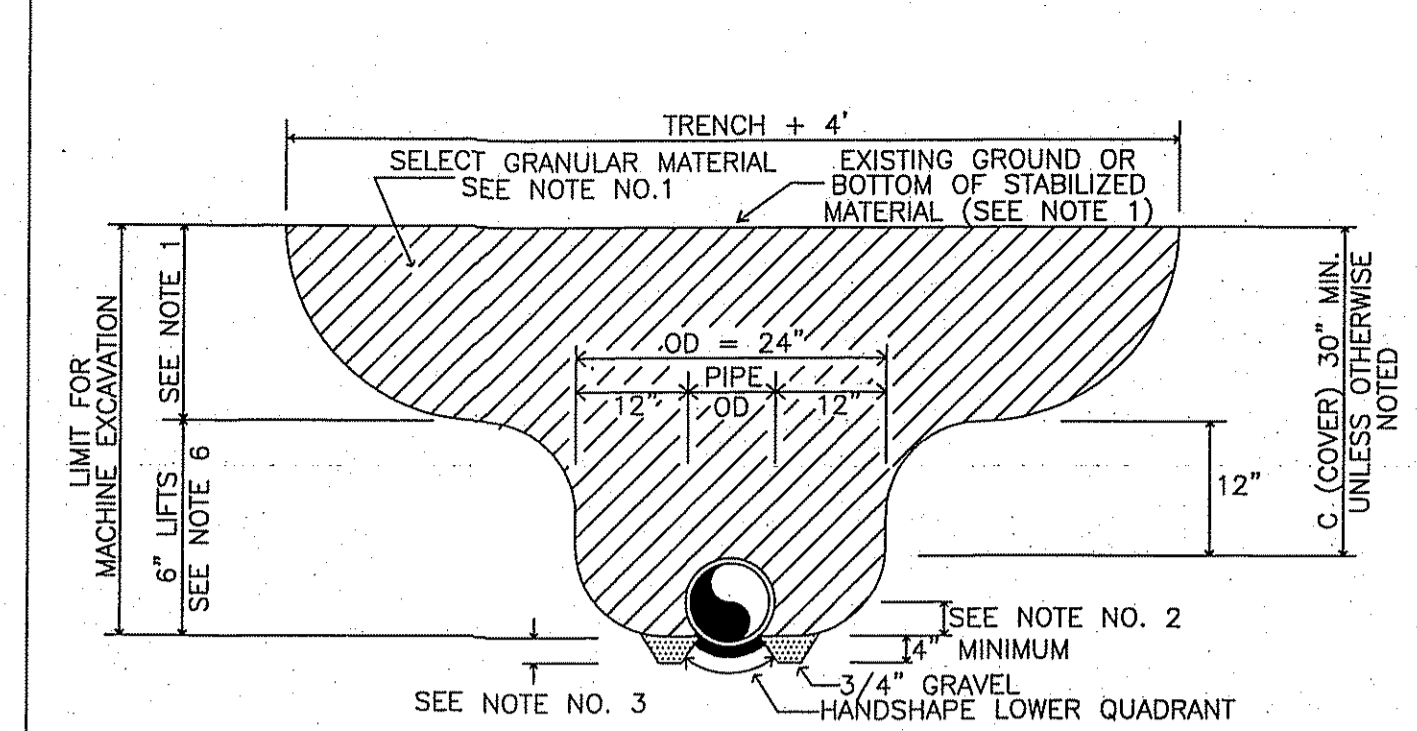
NOTES:

- CASINGS SHALL BE REQUIRED FOR ALL LONG SIDE SERVICES.
- SUCCESSIVE TAPS INTO THE WATER MAIN SHALL BE SPACED A MINIMUM OF 18" OFFSET.
- WHERE NO SIDEWALK EXISTS, METER BOXES SHALL BE SET TO CONFORM TO FINISH GRADE.
- COPPER TUBING SHALL BE TYPE "K" WITH COMPRESSION FITTINGS.
- USE EMS MARKER #1252 COLOR BLUE DIRECTLY OVER THE CORPORATION STOP.
- ALL SERVICE LINES SHALL BE EQUIPPED WITH A CORPORATION STOP AT THE MAIN AND A CURB STOP (LOCKING CONNECTION TYPE) AT THE METER.
- THE COPPER SERVICE LINE SHALL BE CONTINUOUS FROM CORPORATION STOP TO CURB STOP WITH NO FITTINGS IN BETWEEN.
- TAPPING SADDLES AND CORPORATION STOPS SHALL HAVE AWWA INLET THREADS.
- ALL EXPOSED FITTINGS TO BE COATED WITH COLA TAR EPOXY.
- GALVANIZED CASING REQUIRED FOR ANY INSTALLATION REQUIRING A JACK AND BORE, SCH. 40 PVC MAY BE USED FOR AN OPEN CUT INSTALLATION WITH THE APPROVAL OF THE CRB UTILITIES DEPT. CASING SHOULD EXTEND TWO (2) FEET BEYOND EDGE OF PAVEMENT AND SIZED AS FOLLOWS:
 - 1" SERVICE USE 2" CASING
 - 1 1/2" SERVICE USE 3" CASING
 - 2" SERVICE USE 4" CASING

3/4" - 2" TYPICAL WATER SERVICE INSTALLATION
N.T.S. 05/27/05

Water & Sewer Details

City of Riviera Beach
Utility District



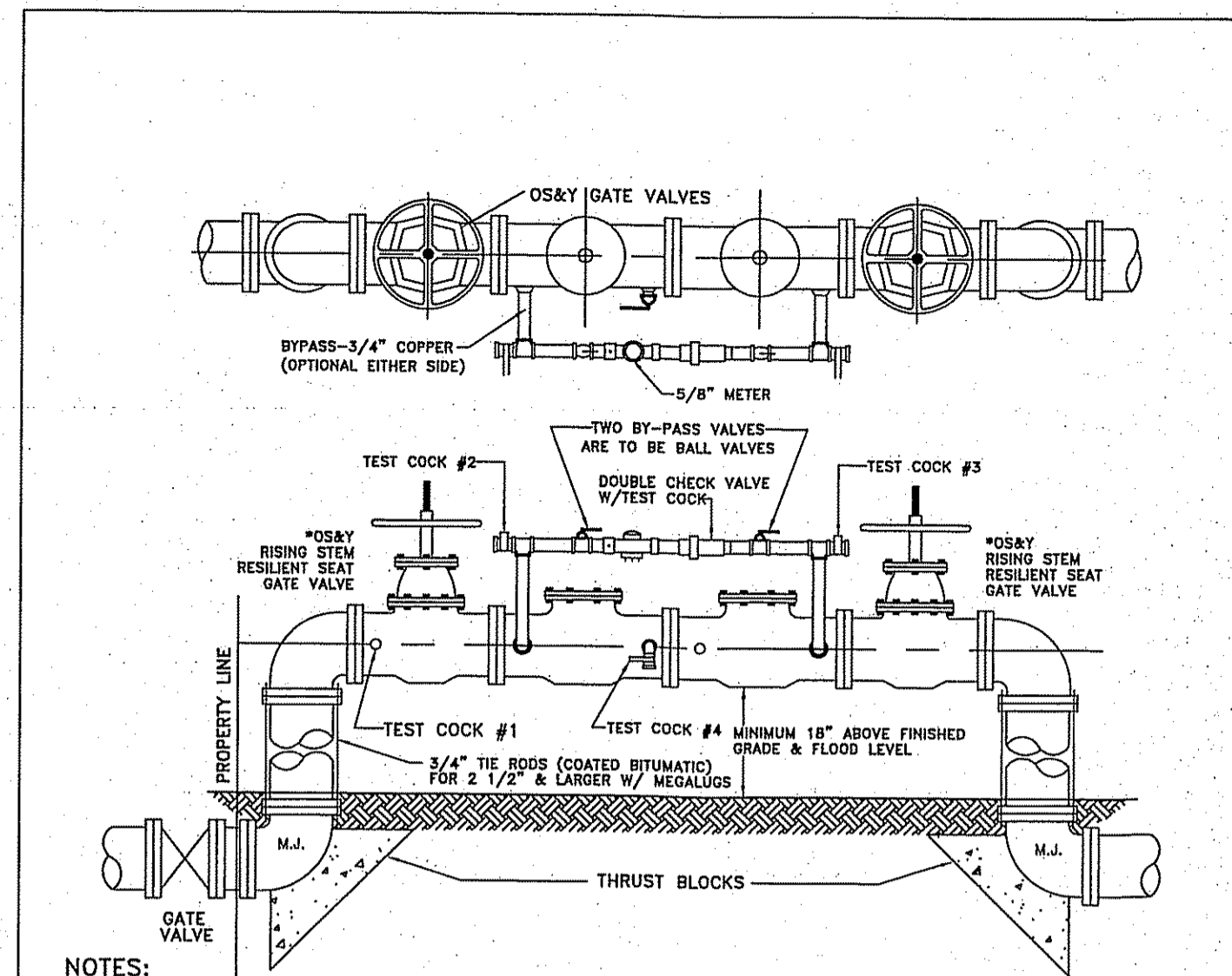
NOTES:

- IF THE TRENCH IS LOCATED UNDER ASPHALT PAVEMENT, THE TRENCH IS TO BE BACKFILLED WITH CLEAN GRANULAR MATERIAL, IN 6" LAYERS (MAXIMUM), COMPACTED TO 100% MAXIMUM DENSITY PER A.A.S.H.T.O. T-99 SPECIFICATIONS. IF THE TRENCH IS LOCATED OUTSIDE OF PAVEMENT AREAS, THE TRENCH IS TO BE BACKFILLED WITH CLEAN GRANULAR MATERIAL, IN 12" LAYERS (MAXIMUM), AND COMPACTED TO 100% MAXIMUM DENSITY PER A.A.S.H.T.O. T-99 SPECIFICATIONS.
- FILL MATERIAL TO BE PLACED MANUALLY UP TO THE SPRING LINE OF THE PIPE AND COMPACTED BY HAND PRIOR TO ADDING ADDITIONAL MATERIAL.
- AS AN ALTERNATIVE TO HANDSHAPING LOWER QUADRANT, CONTRACTOR MAY OVER EXCAVATE THE TRENCH AND BACKFILL WITH 3/4" GRAVEL AS SHOWN.
- TRENCH WIDTH SHALL NOT BE GREATER THAN THE STATED 8'.
- CONTRACTOR IS RESPONSIBLE FOR MEETING ALL SAFETY STANDARDS FOR TRENCHING WIDTHS CONSIDERING O.S.H.A. STANDARDS FOR SOIL TYPES, TRENCH WIDTHS, ANGLE OF REPOSE, ETC. IN ORDER TO PROPERLY PROTECT HIS EMPLOYEES.
- IF USING P.V.C. PIPE, COMPACT MATERIAL UP TO 12" ABOVE PIPE BY HAND. IF USING D.I. PIPE, COMPACT MATERIAL BY HAND UP TO TOP OF PIPE AND COMPACT REMAINING 12" TO 95% MAXIMUM DENSITY PER A.A.S.H.T.O. T-99 SPECIFICATIONS.

TYPICAL PIPELINE TRENCH AND BACKFILL
06/04/08

Water & Sewer Details

City of Riviera Beach
Utility District



NOTES:

- ABOVE GROUND INSTALLATION OF 3" & ABOVE REQUIRE RISING STEM O.S. & Y. RESILIENT SEAT GATE VALVES WITH TEST COCKS.
- INSTALLATION AND CERTIFICATION REQUIRED BY A CERTIFIED BACKFLOW TECHNICIAN PRIOR TO ACCEPTANCE.
- AN RPZ BACKFLOW PREVENTION ASSEMBLY MUST BE INSTALLED DOWNSTREAM OF THE DOMESTIC AND IRRIGATION METER, 18" - 24" ABOVE FINISHED GRADE ON NON-GALVANIZED METALIC PIPE. WORK DONE ON THIS DEVICE IS TO BE PERFORMED BY A CERTIFIED BACKFLOW TECHNICIAN AND TEST REPORTS MUST BE SUBMITTED TO THE CITY OF RIVIERA BEACH - UTILITY DISTRICT.

DOUBLE DETECTOR CHECK ASSEMBLY & METER
INSTALLATION SIZES: 3", 4", 6", 8", 10"
05/27/05

Water & Sewer Details

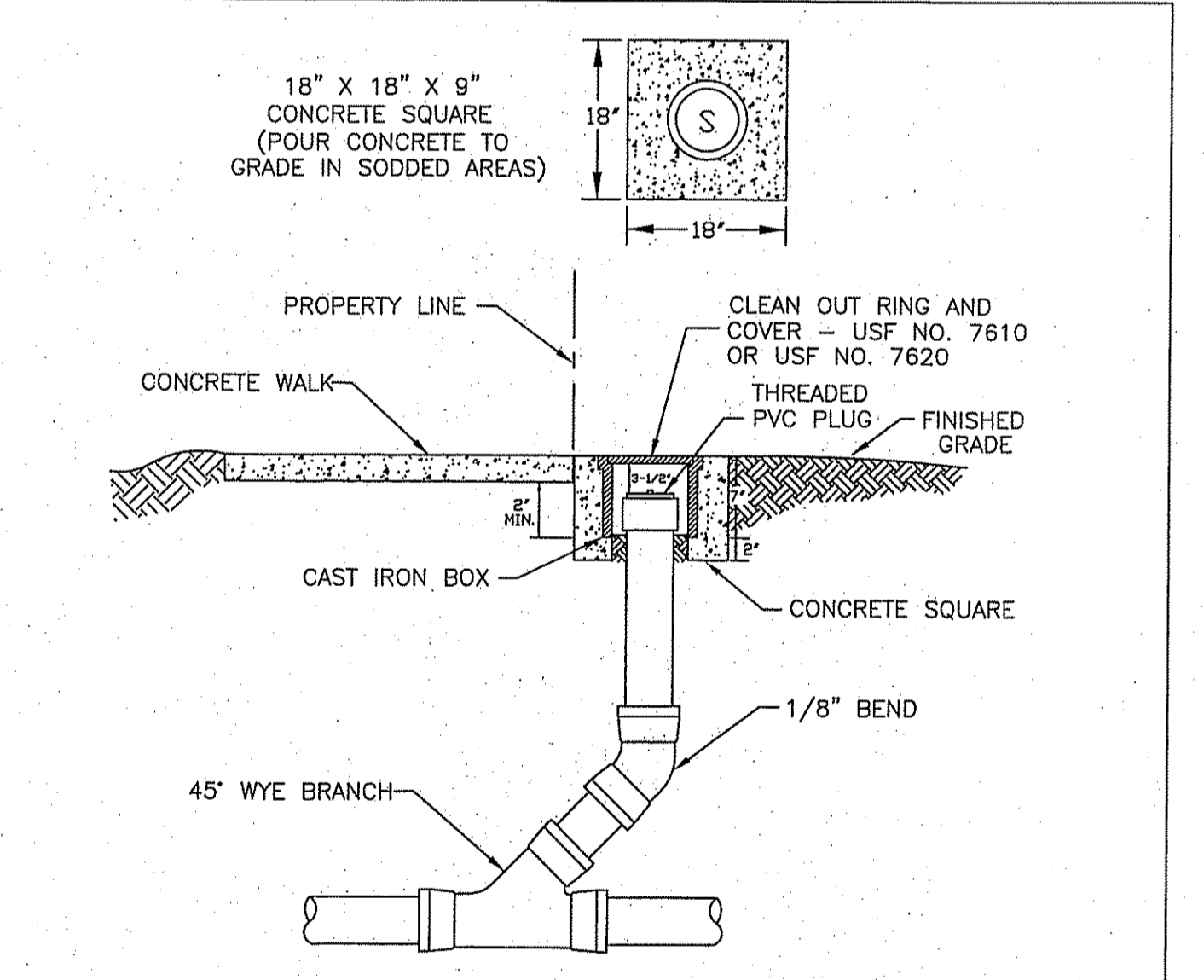
City of Riviera Beach
Utility District

GENERAL NOTES: (As Applicable)

- All work and materials shall conform to the City of Riviera Beach Utility Standards. Contractor shall obtain a copy of the latest City of Riviera Beach Utility Standards prior to construction.
- Shop drawings and material specifications shall be submitted to the Engineer and City of Riviera Beach Utilities for review and approval prior to construction.
- Contractor shall obtain copies of all permits for the water and sewer work and shall review permits and comply with all requirements identified in the permits.
- All connections to existing facilities shall be made under the direct supervision of the City of Riviera Beach Utilities.
- A pre-construction meeting shall be conducted with the City of Riviera Beach, Developer, Contractors, Engineer and all other appropriate parties prior to construction.
- Water Valve Boxes, Water Meters, Manhole Covers and other appurtenances of any kind relating to underground utilities shall not be located in any portion of a curb and gutter section. Contractor shall review all potential locations for these types of facilities and coordinate with City, Engineer and Layout Surveyor to confirm compliance with these requirements.
- All crossings and separation of water, sewer, drainage and all other underground facilities shall be field verified by a Registered Professional Surveyor during construction and this information included on the "Record Drawings" of the underground facilities.
- Record drawings of all underground facilities shall be provided to the Engineer and to the City. The contractor shall coordinate with the developer and all site contractors to obtain this information during the construction process. All Record Drawing information shall be prepared by a Registered Professional Surveyor and shall comply with the requirements of the Regulatory Agencies and Engineer.
- All Sanitary Manholes shall be reviewed by the City of Riviera Beach prior to placement.
- Water Mains shall be pressure tested and bacteriologically tested in accordance with permit requirements and City of Riviera Beach requirements. Force main shall be pressure tested in accordance with permit requirements.
- Sanitary Sewer system shall be tested for infiltration and exfiltration in accordance with permit requirements.
- Filling and flushing of mains shall be performed in accordance with the City of Riviera Beach requirements and per the detail provided on the plans.
- Ductile Iron Pipe Sanitary Sewer and Force Main shall be lined with polyethylene or Protecto 401 as required by the City of Riviera Beach Utilities. Ductile Iron Pipe shall be class 52 as required by the City of Riviera Beach Utilities.
- Ductile Iron Pipe Water Main shall be cement mortar lined as required by the City of Riviera Beach Utilities. Ductile Iron Pipe shall be class 52 as required by the City of Riviera Beach Utilities.
- All material and workmanship shall comply with AWWA Specification C-600 latest revision.
- Sanitary Sewer installation shall be tested for deflection with a mandrel and shall not exceed the manufactures recommendations of the City of Riviera Beach requirements.
- The master meter shall be equipped with Radio Read electronics in accordance with the City of Riviera Beach Utilities requirements.

WATER AND SEWER INSTALLATION PROTOCOL

- All pipe is to be laid in a clean dry trench.
- All muck and unsuitable materials encountered in trench bottom shall be removed and replaced with compacted granular material to 95% of maximum density per AASHTO T-180. Proctor and density test results shall be submitted to EOR with a copy to the City of Riviera Beach.
- All backfill within road rights-of-way shall be placed in 12 inch lifts and compacted by mechanical means to 95% of maximum density per AASHTO T-180 or as otherwise required by the permitting agency.
- Utilities crossing road rights-of-way shall be installed prior to road construction and backfilled and compacted within the limits in strict accordance with the directions of the EOR and requirements of all agencies of jurisdiction.
- Embedment materials below pipe shall conform to Unified Soil Classification System (U.S.C.S.) Soil Classification Class I or II as noted in ASTM D2321.
- All lines under construction shall be plugged with a wing plug, and all pressure pipes are to be plugged with a mechanical plug or cap at the end of the working day to prevent ground water and potential contaminants from entering completed lines and lines under construction.
- All tie rods, bolts, nuts, etc. installed underground must be Cor Ten and shall be pointed with Koppers 300-M or an Authority approved equal. Brass and stainless steel hardware is exempt from this requirement.
- Coatings and linings damaged during construction due to field cutting, mishandling or otherwise must be repaired in strict accordance with the manufacturer's recommendations. This includes, but is not limited to, cement mortar and polyethylene pipe linings, Protecto 401, galvanized coatings, PVC fence coatings and other point type coatings.
- All stainless steel nuts, bolts and hardware referenced in these standards, shall be SS 316 grade and shall be so stamped by the manufacturer to verify alloy. The use of any other stainless steel alloy will require specific approval by Authority. In general, stainless steel nuts, bolts and hardware are required in and around lift stations and for facilities installed over or under brackish or marine waters. This requirement applies to flange bolts and nuts on flanged piping, mounting brackets, all threaded rod, anchor bolts, washers, clamps and other miscellaneous hardware. Anti-galling compound anti-seize lubricant shall be applied to the threads of all stainless steel bolts prior to installation.
- Anti-seize lubricant shall be graphite 50 anti-seize by Loctite Corporation, 1000 anti-seize paste by Dow Corning, 3M Lube and anti-seize by 3M. 12. All rubber and synthetic elastomeric components of products that come in contact with potable water shall be manufactured with chloramine resistant elastomers and shall bear NSF approval.
- All main, including fittings, shall be easily identifiable as to their contents and shall be color coded or marked using the universal color code of blue for water, green for sewer and lavender for reclaimed. Pipe striped during manufacturing of the pipe shall have continuous stripes that run parallel to the axis of the pipe, that are located at no greater than 90-degree intervals around the pipe, and that will remain intact during and after installation of the pipe. If tape is used to stripe pipe during installation of the pipe, the tape shall be applied in a continuous line that runs parallel to the axis of the pipe and that is located along the top of the pipe; for pipes with an internal diameter of 24 inches or greater, tape shall be applied in continuous lines along each side of the pipe as well as along the top of the pipe.



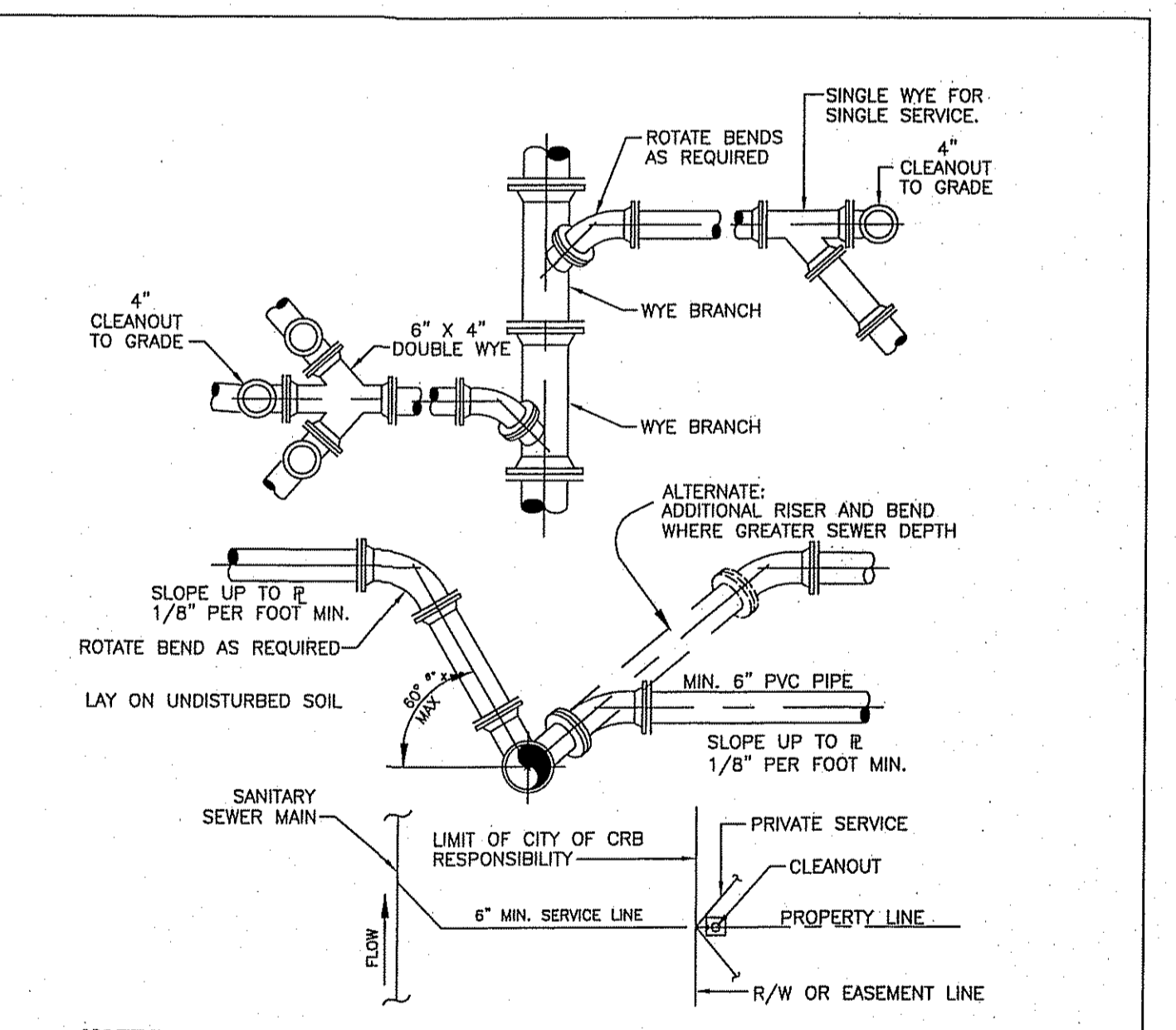
NOTES:

- CLEAN OUTS TO BE LOCATED IN GRASS WHENEVER POSSIBLE.
- CLEANOUTS SHALL NOT BE INSTALLED IN TRAFFIC LANES OR AREAS UNDER HEAVY TRAFFIC LOADS.
- THE COVER TO BE MARKED "S".
- CLEANOUTS TO BE INSTALLED PRIOR TO WATER METER RELEASE.
- NO 90 BENDS SHALL BE USED FOR CLEANOUT INSTALLATION.

CLEAN OUT AT PROPERTY LINE
N.T.S. 05/27/05

Water & Sewer Details

City of Riviera Beach
Utility District



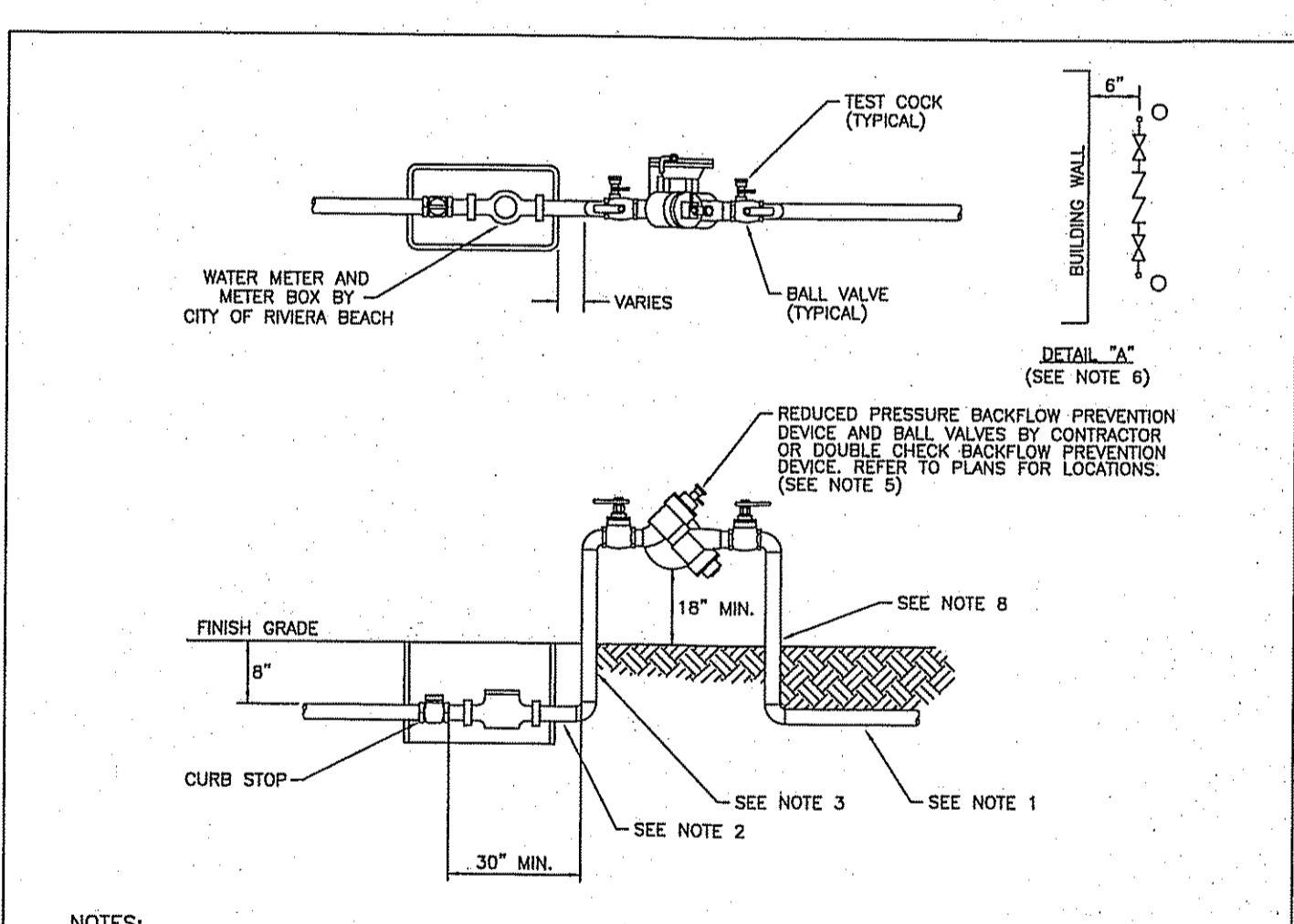
NOTES:

- SERVICE LATERALS SHALL TERMINATE AT PROPERTY LINE AT A DEPTH OF 3 FEET.
- CLEANOUT CONNECTION TO BE EXTENDED 3 FEET ABOVE GRADE PRIOR TO WATER METER INSTALLATION.
- CLEANOUTS ARE TO BE SET TO GRADE PRIOR TO WATER METER ACTIVATION.
- NO 90° BENDS SHALL BE PERMITTED FOR SEWER SERVICE AND CLEANOUT INSTALLATION.

TYPICAL LATERAL CONNECTIONS
N.T.S. 5/27/05

Water & Sewer Details

City of Riviera Beach
Utility District



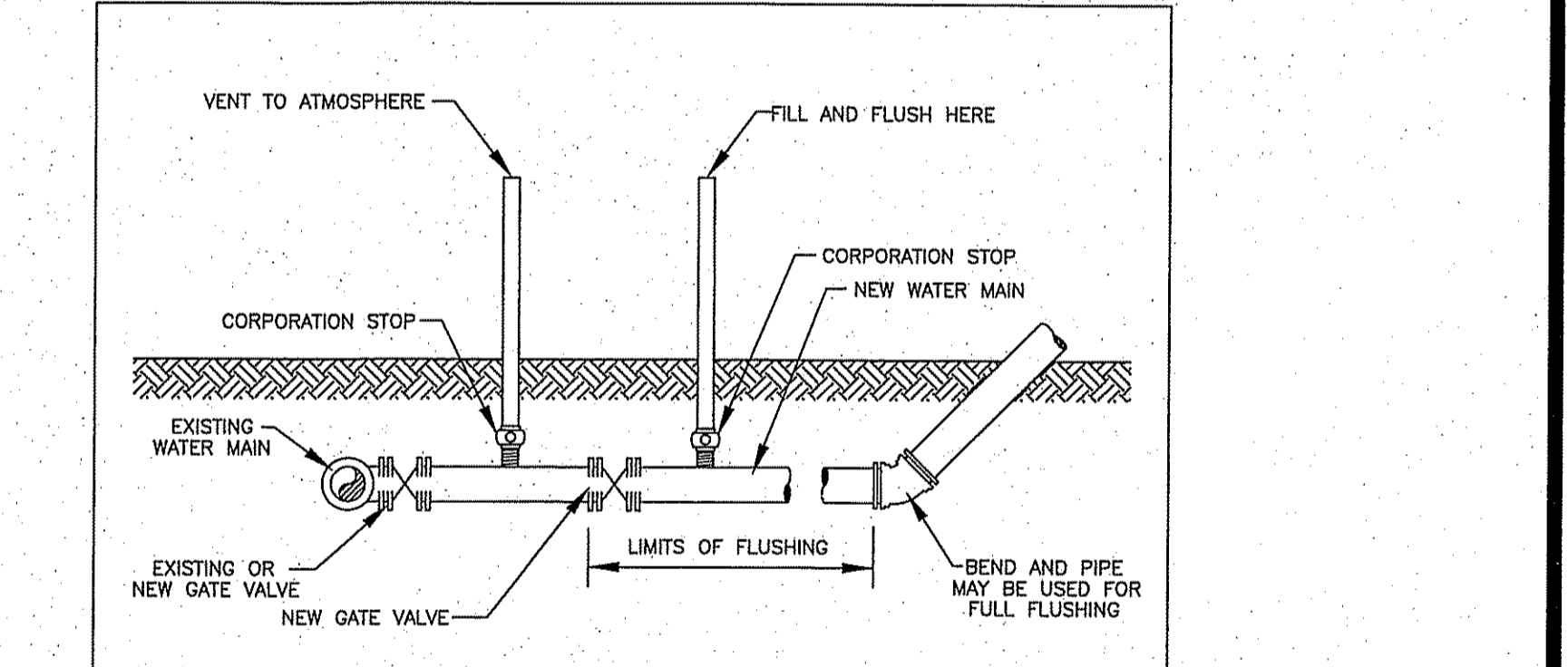
NOTES:

- TYPE "K" COPPER TUBING (SOFT DRAWN) OR POLYETHYLENE TUBING SDR 9 COPPER TUBE SIZE.
- IF THIS DISTANCE IS LESS THAN 3 FEET ONLY COPPER TUBING SHALL BE PERMITTED.
- 3/4"-2" BOTH RISERS SHALL BE TYPE "K" COPPER TUBING (HARD DRAWN) WITH COPPER/BRASS SOLDER FITTINGS AND ADAPTERS. ONLY LEAD FREE SOLDER AND FLUX SHALL BE PERMITTED.
- BOTH 1 1/2" AND 2" ANGLE METER STOPS SHALL BE EQUIPPED WITH LOCKING CAPS AND METER FLANGES.
- ALL BACKFLOW PREVENTION DEVICES ASSEMBLY MUST BE USC APPROVED.
- WHEN THE DEVICE IS INSTALLED PARALLEL TO A BUILDING WALL THERE SHALL BE A MIN. OF 6" BETWEEN THE EDGE OF THE DEVICE AND THE BUILDING WALL.
- 2 1/2" - 10" RPZ BACKFLOW PREVENTION ASSEMBLY MUST BE INSTALLED DOWNSTREAM OF THE WATER SERVICE METER 18"-24" ABOVE FINISHED GRADE ON NON-GALVANIZED METAL PIPE. WORK DONE ON THIS DEVICE MUST BE PERFORMED BY A CERTIFIED BACKFLOW TECHNICIAN AND TEST REPORTS MUST BE SUBMITTED TO THE CITY OF RIVIERA BEACH - UTILITY DISTRICT.

RPZ BACKFLOW PREVENTION DEVICE
05/27/05

Water & Sewer Details

City of Riviera Beach
Utility District



NOTES:

- DO NOT REMOVE TEMPORARY CONNECTION AT CORPORATION STOPS ON NEW MAIN UNTIL FILLING AND FLUSHING HAS BEEN COMPLETED.
- PLUG CORPORATION STOP WITH A P.V.C. PLUG WHEN ABANDONED.
- PROVIDE ALL NECESSARY THRUST BLOCKS AND/OR OTHER RESTRAINTS.
- THIS IS THE ONLY FLUSHING METHOD APPROVED BY THE CITY OF RIVIERA BEACH UTILITY DISTRICT. SINCE OTHER METHODS DO NOT REMOVE LARGE OBJECTS SUCH AS ROCKS, GANS, BOTTLES AND OTHER DEBRIS FROM MAINS. ALL FIRE HYDRANTS AND DETECTOR CHECK VALVES MUST BE INSPECTED AND TESTED TO ASSURE NO SUCH FOREIGN OBJECTS ARE IN THE FIRE FLOW.
- THE GENERAL CONTRACTOR MUST RENT A FIRE HYDRANT METER FROM THE CITY OF RIVIERA BEACH UTILITY DISTRICT FOR USE OF POTABLE WATER FROM A CITY OWNED SOURCE.

FILLING & FLUSHING DETAIL

N.T.S. 05/26/05

Water & Sewer Details

City of Riviera Beach
Utility District

DATE		RECORD DRAWING DATA		BY	
DRAWN		EBS/42		DATE	
MAW		9/16		JOB NO.	
CHECKED		MAW		SCALE	
NO.		DATE		REVISIONS	
BY		BY		BY	

CRAB POT SITE
WATER AND SEWER
DETAIL SHEET

SOUTHERN DESIGN GROUP, INC.

ENGINEERING, PLANNING & PROJECT MANAGEMENT
609 NORTH HEBBURN AVENUE, SUITE 204
JUPITER, FLORIDA 33458 561-743-0501

MARK A. WILLIAMS
P.E. # 34944

SEAL

OCT 03 2016

SHEET
6
OF
7

CRAB POT SITE

DRAINAGE CALCULATIONS

October 2016

The referenced project is located on the northwest corner of Blue Heron Boulevard (A-1-A) and the Intracoastal Waterway in the City of Riviera Beach. The existing site was previously occupied by the "Crab Pot" restaurant and was accessed by the loop road under the Blue Heron Bridge. The proposed project will consist of a 4486 SF restaurant.

The existing site has been abandoned and the existing Crab Pot restaurant and associated parking has been removed. The survey for the Crab Pot site indicates the existing land use and coverage. The existing site was almost completely covered by pavement, concrete and building. We have calculated the percent impervious of the Crab Pot site and it was 95.17 % impervious.

Based on the survey, the existing drainage patterns on-site indicated that the majority of the storm water runoff sheet flowed to the west from the existing building and asphalt parking area and then ran to the south to the existing loop road. A small portion of the site drained directly into the Intracoastal Waterway from the roof area. There is an existing catch basin on the southwest corner of the site that is connected to an 8" PVC pipe. The origin of this 8" PVC pipe is unknown.

The pavement and other areas between the building and the loop road curb sheet flowed directly to the loop road. There is a catch basin to the west on the loop road that connects to the drainage system for the bridge and ultimately discharges to the Intracoastal Waterway.

Note that there was a previous project named Inlet Tower that was proposed on this site in 2006 and a drainage connection permit was issued by the FDOT for the project (Permit Number 06D-496-0007).

The proposed site will include the construction of a 4486 SF restaurant and surface parking. The parking area will include an underground drainage system collecting runoff from the roof drain systems and from the parking area. The grades in the parking area will direct runoff to catch basins and these basins will be piped to catch basin located south of the building near

the loop road. The catch basin near the loop road will act as “bubble up” inlets to release stormwater from the site and sheet flow to the existing drainage system on the loop road. This catch basin is proposed to be replaced.

The proposed drainage system will be designed to provide water quality treatment of the storm water runoff and retain the 3 year – 1 hour storm event. The drainage system will include exfiltration trench to provide the retention of storm water runoff prior to discharge to the loop road drainage system.

The loop road drainage system has been historically draining this site. Based on the pre-development land use coverage compared to the post-development land use coverage and the proposed drainage system, stormwater runoff from the site will be reduced following the completion of this project.

The existing land use is as follows:

Site Area – 0.331 acres
Building Area = 0.14 acres
Pervious Area – 0.016 acres
Impervious Area – 0.315 acres
Percent Impervious – 95.17%

The proposed land use is as follows:

Site Area – 0.331 acres
Building Area = 0.10 acres
Pervious Area – 0.08 acres
Impervious Area – 0.25 acres
Percent Impervious – 75.5%

Attached are exfiltration trench calculations which indicate the amount of exfiltration trench required to meet the water quality volume and the retention of the 3 year - 1 hour storm event for the site.

The water quality volume is based on 2.5 times the percent impervious (in inches). This equates to the following.

$2.5 \times 0.331 \text{ acres (assume 100\% impervious)} = 0.827 \text{ ac-in}$
100% of the water quality will be provided by dry pretreatment

The 3 year – 1 hour rainfall amount is 3.32”.
 $3.32'' \times 0.331 \text{ ac} = 1.10 \text{ ac-in.}$

40 L.F of exfiltration Trench required to retain 1.10 ac-in. 50 L.F. of exfiltration trench provided. Total treatment in trench provided exceeds 1.10 ac-in

Note that based on providing 1.10 ac-in of pre-treatment prior to discharge, the site is providing the required water quality volume and retaining the 3 year – 1 hour storm event.

The FEMA elevation in this area, based on the current FEMA maps, is elevation 8.00' NGVD. The minimum finished floor of the building has been set at elevation 9.00' NGVD.

Note that there is 0.03 acres of the site that will be draining to a retention area under the deck on the east side of the building. This drainage area will not contribute to the runoff onto the loop road. We have not deducted this area from the calculations at this time.

Based on the above, the proposed drainage system is exceeding the required retention volumes and is conservative.

We have provided two exfiltration trench percolation tests. The older test indicates a percolation rate of 0.00118. The newer test indicates a percolation rate of 0.000812. The lower percolation rate was used for this project.

Refer to the attached exfiltration calculations, rainfall intensity chart and drainage area map for the eastern deck area.

Prepared by:

 Mark A. Williams, P.E.

10/3/16

Date:

P.E. # 34944

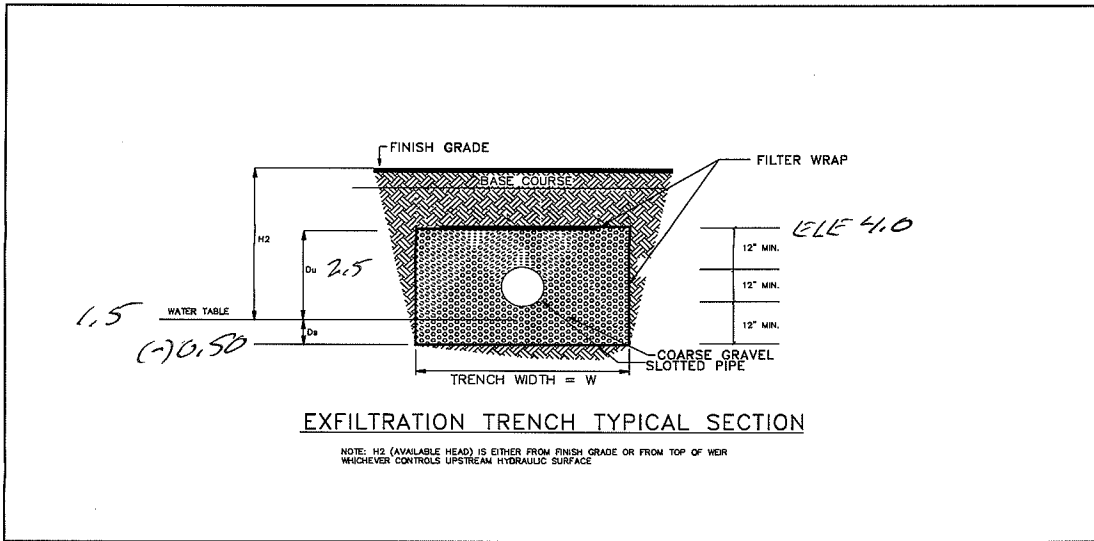
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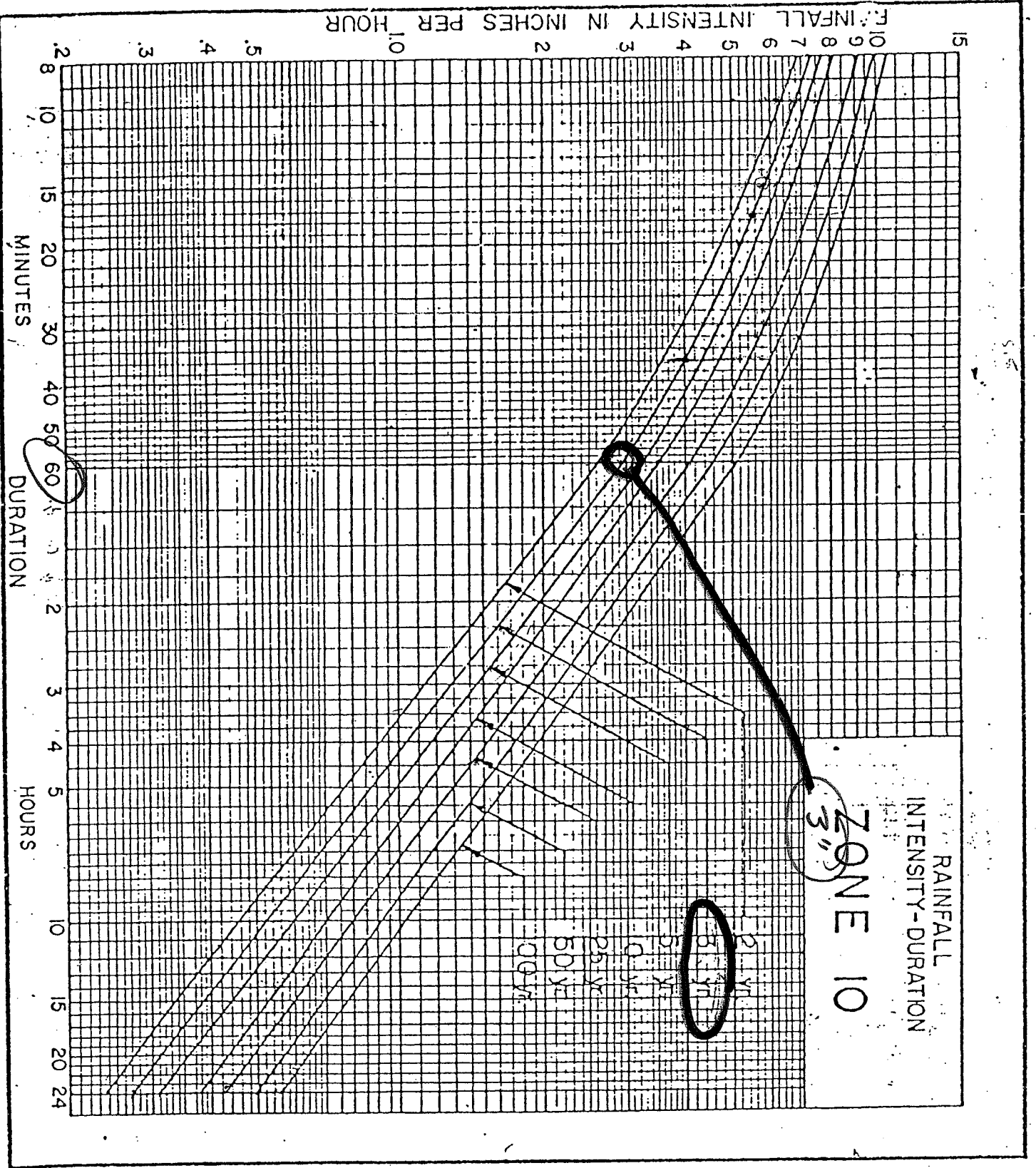
Southern Design Group, Inc.

EXFILTRATION TRENCH CALCULATIONS
Crab Pot Site

$$L = V / (Kx(H2xW+2xH2xDu-(DuxDu)+2xH2xDs)) + (1.39E-04xWxDu)$$

L = LENGTH OF TRENCH REQUIRED IN FEET	40.05827
V = VOLUME TREATED IN ACRE-INCHES	1.1
K = HYDRAULIC CONDUCTIVITY IN CFS/SF-FT-HD	8.12E-04
H2 = DEPTH TO WATER TABLE (FROM SURFACE OR TOP OF WEIR)	2.5
W = TRENCH WIDTH IN FEET	6
Du = NON-SATURATED TRENCH DEPTH IN FEET	2.5
Ds = SATURATED TRENCH DEPTH IN FEET	2





USED 3.32"

Western County

Gagnon, Jeff

From: Bryan, Paul <Paul.Bryan@dot.state.fl.us>
Sent: Tuesday, September 26, 2017 9:41 AM
To: markw@sdgcivil.com
Cc: Evert, Rosie
Subject: Drainage Permit 16-D-496-0046-93080

Mark'

Subject permit is extended a further year, new expiration date is 10/30/18. Please ensure full permit number is included in all future correspondence.

Thank you.

Paul Bryan
Permits Inspector
FDOT
7900 Forest Hill Blvd
West Palm Beach, FL 33413
561.432.4966 (Main)
561.370.1122 -(Direct)
paul.bryan@dot.state.fl.us

Kenneth A. Blair

From: Bryan, Paul <Paul.Bryan@dot.state.fl.us>
Sent: Thursday, June 28, 2018 12:34 PM
To: Mark Williams; Evert, Rosie
Cc: Kenneth A. Blair; Evert, Rosie
Subject: RE: Utility Permit 17-H-496-0195-93080

Mark,

Be advised, new expiration date: 12/29/18.

Regards

Paul Bryan
Permits Inspector
FDOT
7900 Forest Hill Blvd
West Palm Beach, FL 33413
561.432.4966 (Main)
561.370.1122 -(Direct)
paul.bryan@dot.state.fl.us

From: Mark Williams [mailto:markw@sdgcivil.com]
Sent: Thursday, June 28, 2018 11:01 AM
To: Bryan, Paul <Paul.Bryan@dot.state.fl.us>; Evert, Rosie <Rosie.Evert@dot.state.fl.us>
Cc: 'Ken Blair' <ken@skholdings.com>; Evert, Rosie <Rosie.Evert@dot.state.fl.us>
Subject: RE: Utility Permit 17-H-496-0195-93080

Paul and Rosie,

See attached utility permit.

Can we get this permit extended?

What do you need from us? A letter request or will this email suffice?

There have been no changes to the adjacent roadway or FDOT property in the area.

Please advise.

Thank you.

Mark A. Williams, P.E.
Southern Design Group, Inc.
609 No. Hepburn Avenue, Suite 204
Jupiter, FL 33458
Ph. No. 561-743-0501
Cell No. 561-389-8401
Fax. No. 561-743-1420

markw@sdgcivil.com

From: Bryan, Paul <Paul.Bryan@dot.state.fl.us>
Sent: Monday, February 12, 2018 9:08 AM
To: Mark Williams <markw@sdgcivil.com>; Evert, Rosie <Rosie.Evert@dot.state.fl.us>
Cc: 'Ken Blair' <ken@skholdings.com>; Evert, Rosie <Rosie.Evert@dot.state.fl.us>
Subject: RE: Utility Permit 17-H-496-0195-93080

Mark,

We apologize your request for an extension was inadvertently not addressed earlier. Kindly note the subject Permit is extended an additional six months and will expire on 6/30/18.

Paul Bryan
Permits Inspector
FDOT
7900 Forest Hill Blvd
West Palm Beach, FL 33413
561.432.4966 (Main)
561.370.1122 -(Direct)
paul.bryan@dot.state.fl.us

From: Mark Williams [<mailto:markw@sdgcivil.com>]
Sent: Sunday, February 11, 2018 10:31 AM
To: Evert, Rosie <Rosie.Evert@dot.state.fl.us>; Bryan, Paul <Paul.Bryan@dot.state.fl.us>
Cc: 'Ken Blair' <ken@skholdings.com>
Subject: RE: Utility Permit

Rosie and Paul,

Don't mean to be a pest but can you please advise regarding this permit extension?

See below.

Thank you.

Mark A. Williams, P.E.
Southern Design Group, Inc.
609 No. Hepburn Avenue, Suite 204
Jupiter, FL 33458
Ph. No. 561-743-0501
Cell No. 561-389-8401
Fax. No. 561-743-1420
markw@sdgcivil.com

From: Mark Williams [<mailto:markw@sdgcivil.com>]
Sent: Saturday, January 13, 2018 11:31 AM
To: 'Evert, Rosie' <Rosie.Evert@dot.state.fl.us>; 'Bryan, Paul' <Paul.Bryan@dot.state.fl.us>
Cc: 'Ken Blair' <ken@skholdings.com>
Subject: RE: Utility Permit

Rosie and Paul,

Did this permit ever get extended??

Thanks

Mark A. Williams, P.E.
Southern Design Group, Inc.
609 No. Hepburn Avenue, Suite 204
Jupiter, FL 33458
Ph. No. 561-743-0501
Cell No. 561-389-8401
Fax. No. 561-743-1420
markw@sdgcivil.com

From: Evert, Rosie [<mailto:Rosie.Evert@dot.state.fl.us>]
Sent: Wednesday, December 13, 2017 10:27 AM
To: Bryan, Paul <Paul.Bryan@dot.state.fl.us>
Cc: Mark Williams <markw@sdgcivil.com>
Subject: FW: Utility Permit

Paul:

Please extend for Mark

Rosie Evert

*FDOT
Permits Coordinator II
Palm Beach Operations Center
7900 Forest Hill Blvd
West Palm Beach, FL 33413
Office: 561-370-1139
Fax: 561-370-1236
Email: rosie.evert@dot.state.fl.us*



From: Mark Williams [<mailto:markw@sdgcivil.com>]
Sent: Wednesday, December 13, 2017 7:10 AM
To: Evert, Rosie <Rosie.Evert@dot.state.fl.us>

Cc: 'Ken Blair' <ken@skholdings.com>

Subject: Utility Permit

Rosie,

See attached utility permit.

Can we get this permit extended?

What do you need from us? A letter request or will this email suffice?

Please advise.

Thank you and hope you are doing well.

Mark A. Williams, P.E.

Southern Design Group, Inc.

609 No. Hepburn Avenue, Suite 204

Jupiter, FL 33458

Ph. No. 561-743-0501

Cell No. 561-389-8401

Fax. No. 561-743-1420

markw@sdgcivil.com

Kenneth A. Blair

From: Bryan, Paul <Paul.Bryan@dot.state.fl.us>
Sent: Monday, February 12, 2018 9:08 AM
To: Mark Williams; Evert, Rosie
Cc: Kenneth A. Blair; Evert, Rosie
Subject: RE: Utility Permit 17-H-496-0195-93080

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Paul Bryan
Permits Inspector
FDOT
7900 Forest Hill Blvd
West Palm Beach, FL 33413
561.432.4966 (Main)
561.370.1122 -(Direct)
paul.bryan@dot.state.fl.us

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Sent: Sunday, February 11, 2018 10:31 AM
To: Evert, Rosie <Rosie.Evert@dot.state.fl.us>; Bryan, Paul <Paul.Bryan@dot.state.fl.us>
Cc: 'Ken Blair' <ken@skholdings.com>
Subject: RE: Utility Permit

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Thank you.

Mark A. Williams, P.E.
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609 No. Hepburn Avenue, Suite 204
Jupiter, FL 33458
Ph. No. 561-743-0501
Cell No. 561-389-8401
Fax. No. 561-743-1420
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From: Mark Williams [mailto:markw@sdgcivil.com]
Sent: Saturday, January 13, 2018 11:31 AM
To: 'Evert, Rosie' <Rosie.Evert@dot.state.fl.us>; 'Bryan, Paul' <Paul.Bryan@dot.state.fl.us>
Cc: 'Ken Blair' <ken@skholdings.com>
Subject: RE: Utility Permit

Rosie and Paul,

Did this permit ever get extended??

Thanks

Mark A. Williams, P.E.
Southern Design Group, Inc.
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Jupiter, FL 33458
Ph. No. 561-743-0501
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Sent: Wednesday, December 13, 2017 10:27 AM
To: Bryan, Paul <Paul.Bryan@dot.state.fl.us>
Cc: Mark Williams <markw@sdgcivil.com>
Subject: FW: Utility Permit

Paul:

Please extend for Mark

Rosie Evert

FDOT

Permits Coordinator II

Palm Beach Operations Center

7900 Forest Hill Blvd

West Palm Beach, FL 33413

Office: 561-370-1139

Fax: 561-370-1236

Email: [*rosie.evert@dot.state.fl.us*](mailto:rosie.evert@dot.state.fl.us)



From: Mark Williams [<mailto:markw@sdgcivil.com>]
Sent: Wednesday, December 13, 2017 7:10 AM
To: Evert, Rosie <Rosie.Evert@dot.state.fl.us>

Cc: 'Ken Blair' <ken@skholdings.com>

Subject: Utility Permit

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What do you need from us? A letter request or will this email suffice?

Please advise.

Thank you and hope you are doing well.

Mark A. Williams, P.E.

Southern Design Group, Inc.

609 No. Hepburn Avenue, Suite 204

Jupiter, FL 33458

Ph. No. 561-743-0501

Cell No. 561-389-8401

Fax. No. 561-743-1420

markw@sdgcivil.com

CRAB POT SITE

of an onsite sewage treatment and disposal system.

162 seats inside, 75 seats outside (237 total)

(a) The inlet invert shall discharge a minimum 2 1/2 inches above the liquid level line and the outlet pipe shall have a tee with a minimum diameter of 4 inches that extends to within 8 inches of the bottom of the tank.

(b) Interceptors must be located so as to provide easy access for routine inspection, cleaning and maintenance. Manholes shall be provided over the inlet and outlet of each interceptor and be brought to finished grade.

(c) Where a grease interceptor is required or used, only kitchen wastewater shall first pass through the interceptor and then be discharged into the first compartment of a septic tank or other approved system.

(d) Sizing of grease interceptors shall be based on the equations below. The minimum volume of any grease interceptor shall be 750 gallons and the maximum volume of an individual single grease interceptor chamber shall be 1250 gallons. When the required effective capacity of the grease interceptor is greater than 1250 gallons, installation of multi-chambered grease interceptors or grease interceptors in series is required.

1. Restaurants: (S) X (GS) X (HR/12) X (LF) = effective capacity of grease interceptor in gallons.

237 - S = number of seats in the dining area.

GS = gallons of wastewater per seat use 25 gallons for ordinary restaurant, use 10 gallons for single service article

237 x 25 x 12/12 x 1 = 5925 Gallons

restaurants.

HR = number of hours establishment is open. - *11:00 a.m. to 11:00 p.m.*

LF = loading factor: use 2.0 interstate highways, 1.5 other freeways, 1.25 recreational areas,

1.0 main highways and 0.75 other roads.

USE 5-1250 Gallon Tanks

2. Other type establishments with commercial kitchens: (M) X (GM) X (LF) = effective capacity of grease interceptor in gallons.

M = meals prepared per day.

GM = gallons of wastewater per meal: use 5 gallons.

LF = loading factor: use 1.00 with dishwashing and 0.75 without dishwashing.

(8) Laundry waste interceptor - when a separate system is installed to accept effluent from a single home washing machine only, the retention tank or interceptor for such system shall meet the following minimum standards:

(a) The minimum effective capacity shall be 225 gallons for establishments with an estimated sewage flow of up to 300 gallons per day and shall be increased by 50 gallons for every 100 gallons of additional daily sewage flow.

(b) The interceptor shall be provided with a vented inlet tee, vented sweep, or a baffle.

(c) The interceptor shall not receive waste flow from kitchen fixtures or be used as a grease trap.

(9) Pump tanks and pumps - when used as part of an onsite sewage treatment and disposal system, the following requirements shall apply to all pump tanks manufactured for use in Florida unless specifically exempted by other provisions of these rules:

(a) Pump tanks shall have a minimum effective capacity measured from the bottom of the tank to the top of the tank in accordance with Table II. At least 80% of the required effective capacity shall be contained below the invert of the inlet. Pump levels shall be set as low as practical to preserve as much reserve capacity as possible in the event of pump failure.

(b) Construction standards for pump tanks shall be the same as for treatment receptacles, except that single compartment tanks are allowed.

(c) The electrical conduit and effluent dosing pipe shall exit the dosing chamber:

1. Through the tank outlet using plumbing fittings and reducers to produce a watertight seal,

2. When risers are used, the electrical line and the effluent dosing pipe may penetrate the riser wall provided the penetration is above the wet season high water table elevation and there is a soil-tight seal around the penetrations. When the top of the dosing tank is placed more than 8 inches below the finished grade, risers shall be used to provide access within 8 inches of the finished grade. Where risers are used, risers shall be attached to the tank in accordance with paragraph 64E-6.013(2)(i), F.A.C. The unused tank outlet shall be sealed with a length of capped PVC pipe installed in accordance with paragraph 64E-6.013(2)(f), F.A.C., or

3. Through a 2 to 4 inch access port installed in the tank lid by the manufacturer as approved by the State Health Office. After installation the port must be sealed with a bonding compound per paragraph 64E-6.013(2)(i), F.A.C. Unused ports shall be sealed watertight with cement or bonding compound or with a length of capped PVC pipe.

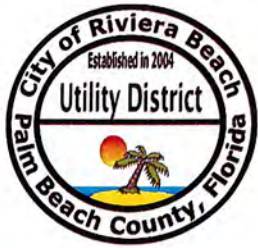
(d) When a pump is used as part of a system, the following conditions shall apply.

1. Pumps used to distribute sewage effluent must be certified by the manufacturer to be suitable for such purpose. The use of a timer as a part of any pump system shall not be allowed unless it is part of a design submitted by an engineer, or master septic tank contractor, and is approved by the department. Pumps shall be designed in accordance with the May, 1985, Sump, Effluent and Sewage Pump Manufacturers Association standards for the purpose intended, herein incorporated by reference.

2. An audio and visual high water alarm shall be provided in a conspicuous location visible by system users to warn of pump failures. If the alarm is located outdoors, the alarm shall be waterproof and specified by the manufacturer for outdoor use.

3. A pump shall be placed in a separate compartment or tank, except when using a pump chamber insert. Except as noted below, any compartment or tank in which a pump is located shall not be considered when determining total effective capacity

EFFECTIVE JULY 16, 2013



CITY OF RIVIERA BEACH UTILITY DISTRICT

600 W. BLUE HERON BLVD
TELEPHONE (561) 845-4185

RIVIERA BEACH, FL 33404
FAX (561) 840-7292

September 8, 2016

Mark Williams, P.E.
Southern Design Group
609 North Hepburn Avenue, Ste 204
Jupiter, FL 33404
561-743-0501

RE: Letter of Capacity for Crab Pot Restaurant in Riviera Beach, Florida.

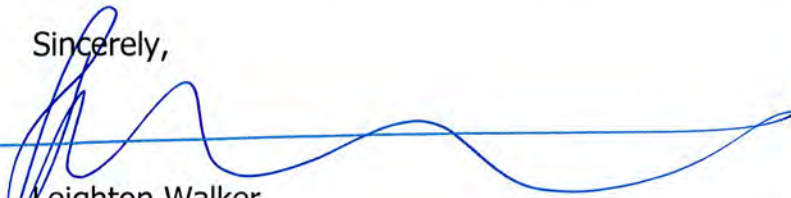
Dear Mr. Williams:

This letter is to confirm that there is sufficient potable water, irrigation water, fire protection pressure, and sewer collection to service this project proposed to be located at 386 East Blue Heron Boulevard. Our understanding is that this 4,486 square foot site will be designed to seat 250 with restrooms and associated facilities.

Please note that it is the District's intention to retain full utility authority and service on this property.

If additional information is needed, please feel free to contact me at (561) 845-4185.

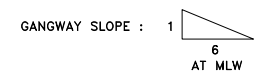
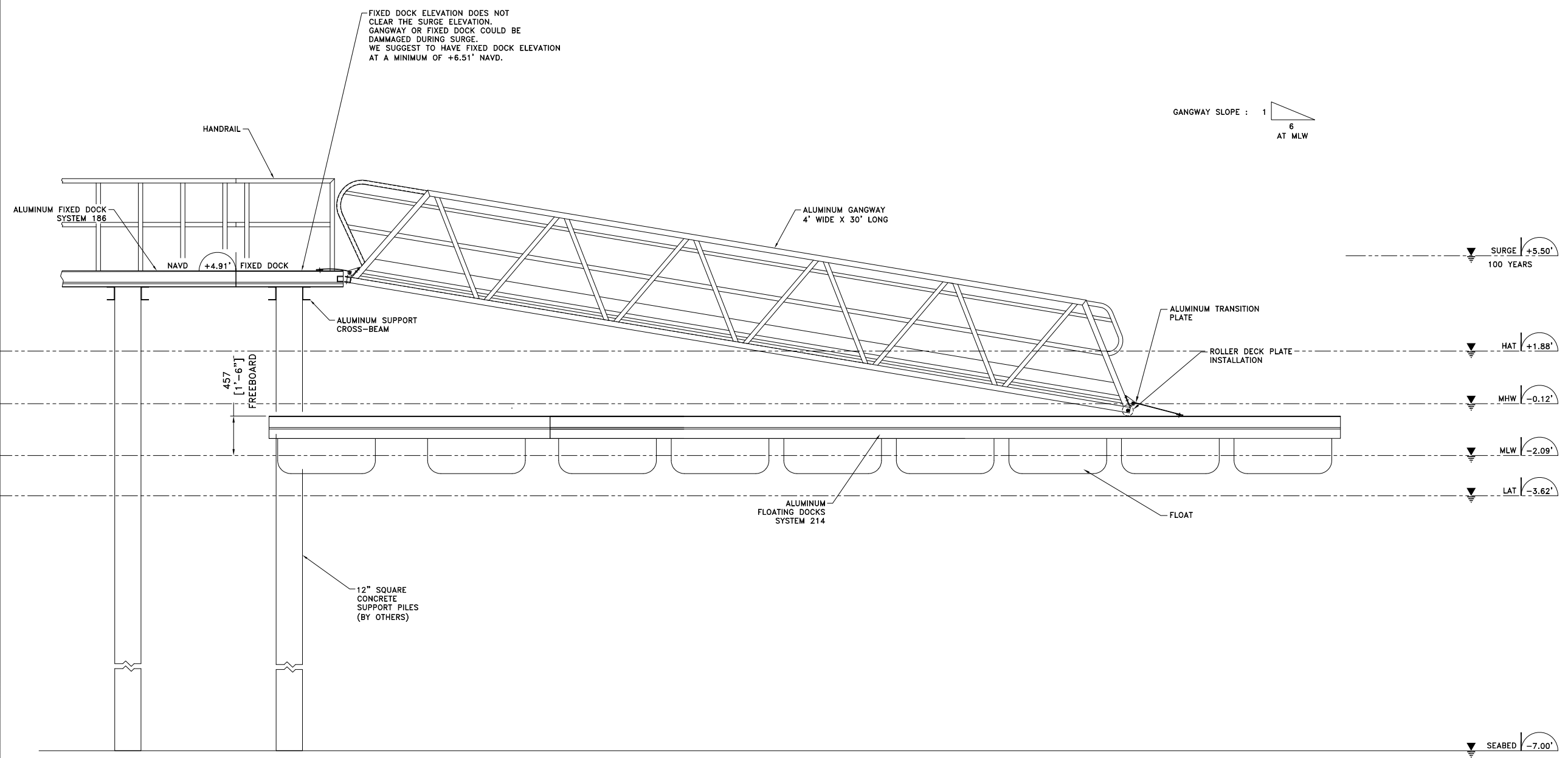
Sincerely,



Leighton Walker
Utility District Engineer

cc: File

FOR APPROVAL



LEGEND

DESIGN CRITERIA

WIND SPEED : 120 km/h (74 MPH)
(FULL OCCUPANCY)
WIND SPEED : 153 km/h (95 MPH)
(WITHOUT BOATS)
SECURITY FACTOR (WIND LOAD) : 1.50
FREEBOARD: 457 mm (18")
WAVE HEIGHT : 457 mm (18")
WAVE PERIOD : 3 SECONDS
CURRENT : 3.0 FT/S
TOP OF PILE (STEEL) : +11.3' NAVD
SEAWALL ELEV. : +6.51' NAVD
FIXED DOCK ELEV. : +6.51 TO 4.91' NAVD
TOP OF PILE (CONC.): +5.9' TO +4.3' NAVD
SURGE : +5.5' NAVD
HAT : +1.88' NAVD
MHW : -0.12' NAVD
MLW : -2.09' NAVD
LAT : -3.62' NAVD
SEABED : -7.00' NAVD
TYPE OF SOIL : SAND
N VALUE : 10
BOAT PROFILE : TOBIASSON 1989 BOAT
PROFILE CURVE
METHOD OF : U.S. CORPS OF ENGINEER
CALCULATION SPECIAL REPORT 1974

NOTES

SITE DATA SUCH AS TIDE LEVELS,
BATHYMETRY, SHORE ELEVATION,
SOIL STUDY, WIND SPEED AND WAVE
HEIGHT TO BE CONFIRMED UPON FINAL
DESIGN.

No.	Description	By	Appr.	Fab.	Inst.
1	INITIAL ISSUE	M.L.			
		16/02/02			
		YY-MM-DD	YY-MM-DD	YY-MM-DD	YY-MM-DD

PROPRIETARY INFORMATION
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This drawing is transmitted for consultation only and must be returned upon request to TECHNOMARINE MANUFACTURING INC. It may only be used for the purpose of executing the work for which it was conceived.

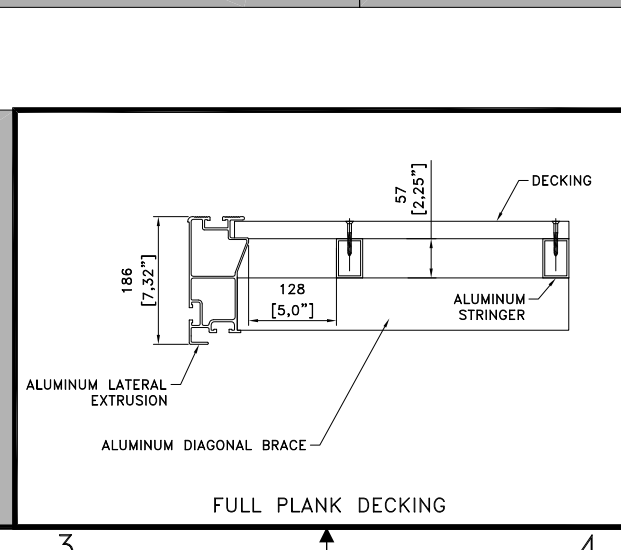
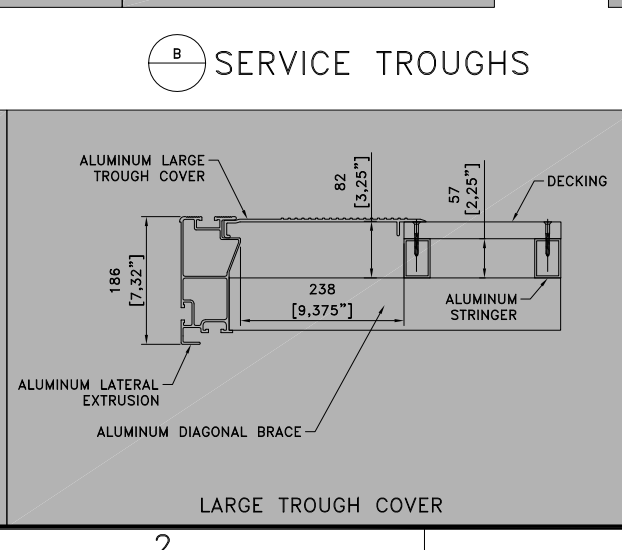
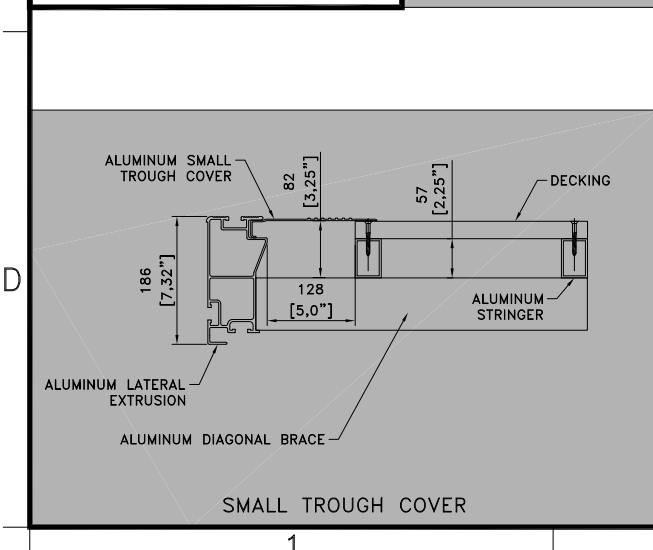
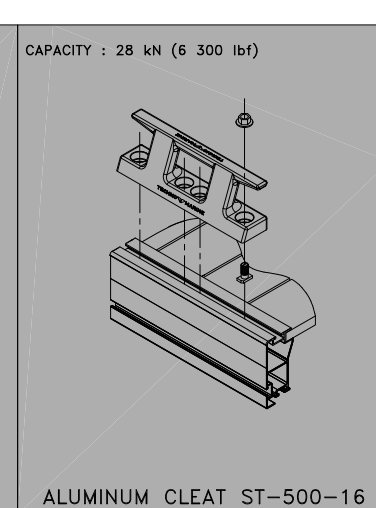
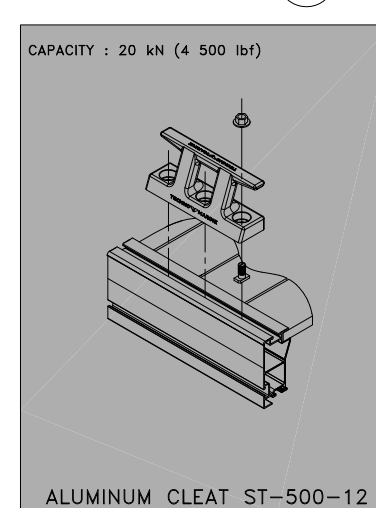
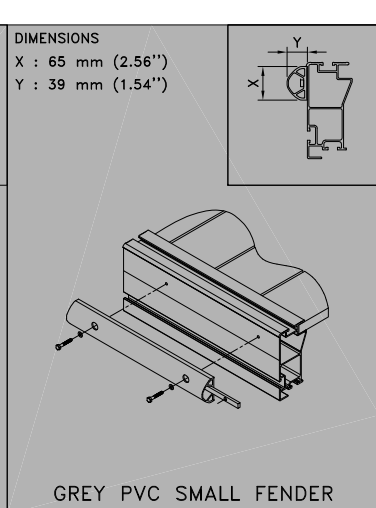
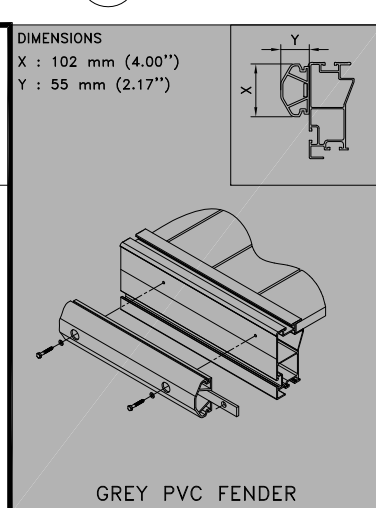
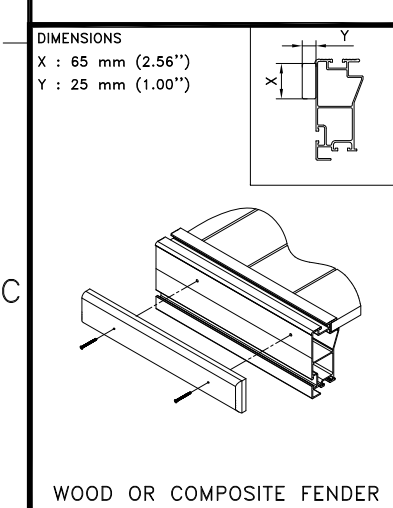
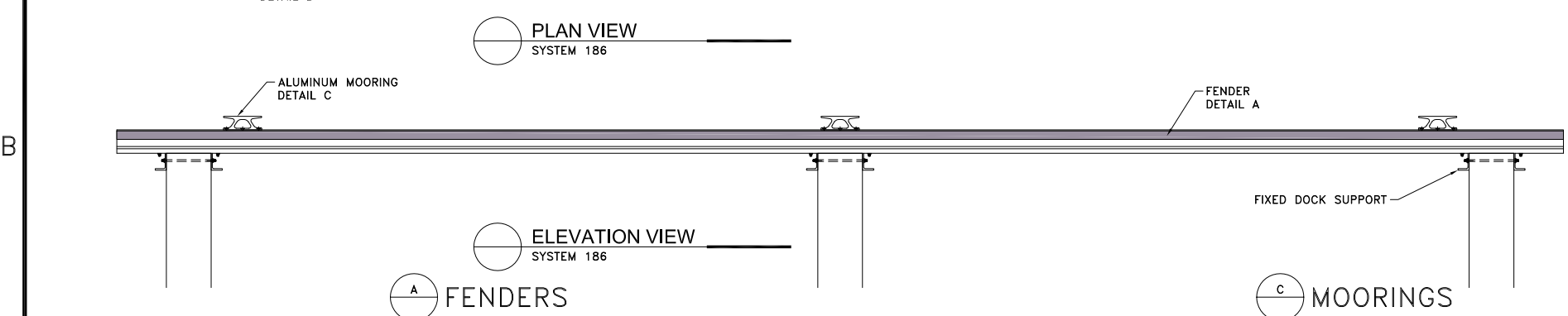
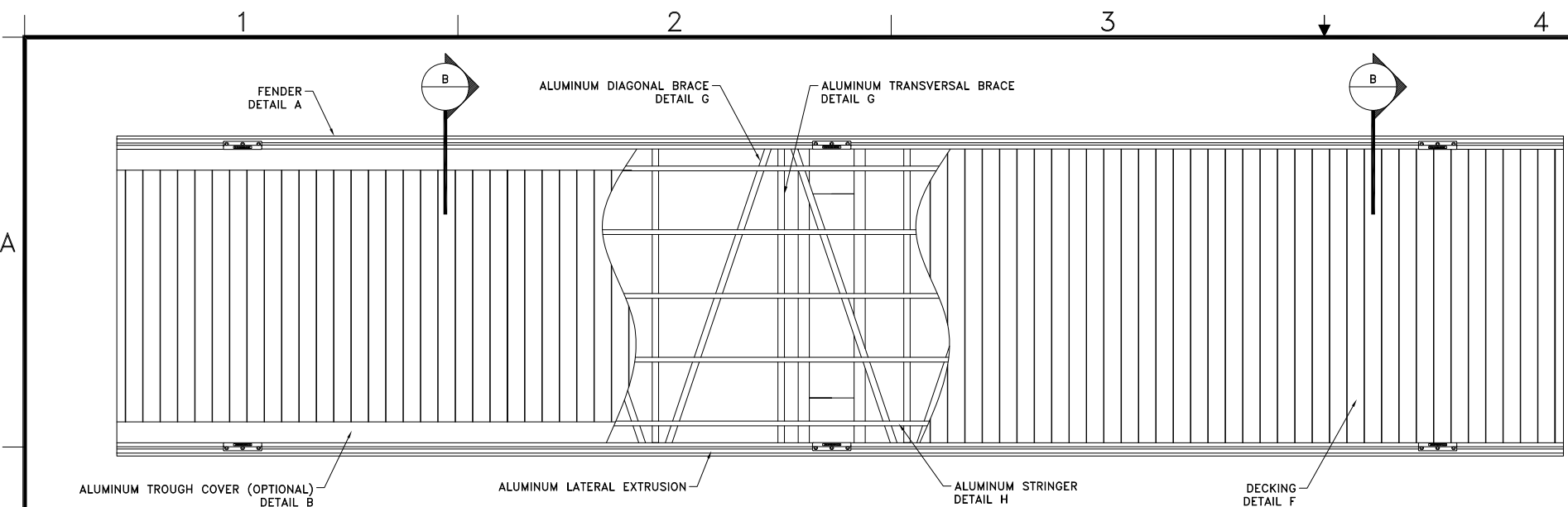
TECHNOMARINE
Advanced Docking Solutions

Projet
JUPITER INLET DEVELOPMENT DOCKS,
JUPITER INLET, PALM BEACH,
FLORIDA
Project

Titre
GANGWAY
ELEVATION VIEW
Title

No. de Contrat 5537-B Contract no.	Gérant de projet F. COUTURE Project manager
Tracé le 16/02/02 Printed	Dessiné par M. LAUZON Drawn by
Dessin de réf. Ref. drawing	No. de dessin 5537GL02 Drawing no.
	Rev. 00 Rev

ELEVATION VIEW
GANGWAY WITH WATER LEVELS

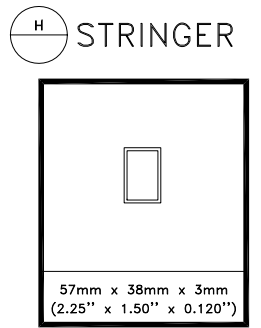


F DECKINGS

DECKING	DIMENSIONS	
	METRIC	IMPERIAL
HARDWOOD	25mm x 135mm	1.00" x 5.32"
COMPOSITE	25mm x 135mm	1.00" x 5.32"
TREATED WOOD	25mm x 135mm	1.00" x 5.32"
ALUMINUM	25mm x 305mm	1.00" x 12.00"

G DIAGONAL & TRANSVERSAL BRACES

STRONG	REGULAR
76mm x 57mm x 3mm (3.0" x 2.25" x 0.120")	76mm x 51mm x 3mm (3.0" x 2.0" x 0.120")



CHARACTERISTICS

- EXTRUSIONS, PLATES AND GUSSETS: MARINE GRADE ALUMINUM ALLOY 6061-T6
- ALL HARDWARES UNLESS NOTED: STAINLESS STEEL AISI 304
- T-BOLTS AND HARDWARES UNDER WATER LINE: STAINLESS STEEL AISI 316
- WELDING: MIG PROCEDURE USING 5356 WELDING AS PER CSA W-47.2 & ANSI/AWS D1.2
- STRUCTURE: CSA S 157 M, CSA W 59.2 M
- FLOATS: POLYETHYLENE SHELL FILLED WITH EPS FOAM 16.0 Kg/m³ (1 lbs/ft³) MIN. DENSITY
- MOORINGS: ALUMINUM ALLOY A356

NOTES

- FLOAT QUANTITY IS FOR REFERENCE ONLY
- CLEAT QUANTITY IS FOR REFERENCE ONLY
- ALL DIMENSIONS ARE NOMINAL

FOR APPROVAL

INITIAL ISSUE	M.L.			
	16/02/03			
No.	Description	By	Appr.	Fab.
		YY-MM-DD	YY-MM-DD	YY-MM-DD

PROPRIETARY INFORMATION
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TECHNOMARINE
Advanced Docking Solutions

Project: JUPITER INLET DEVELOPMENT DOCKS, JUPITER INLET, PALM BEACH, FLORIDA

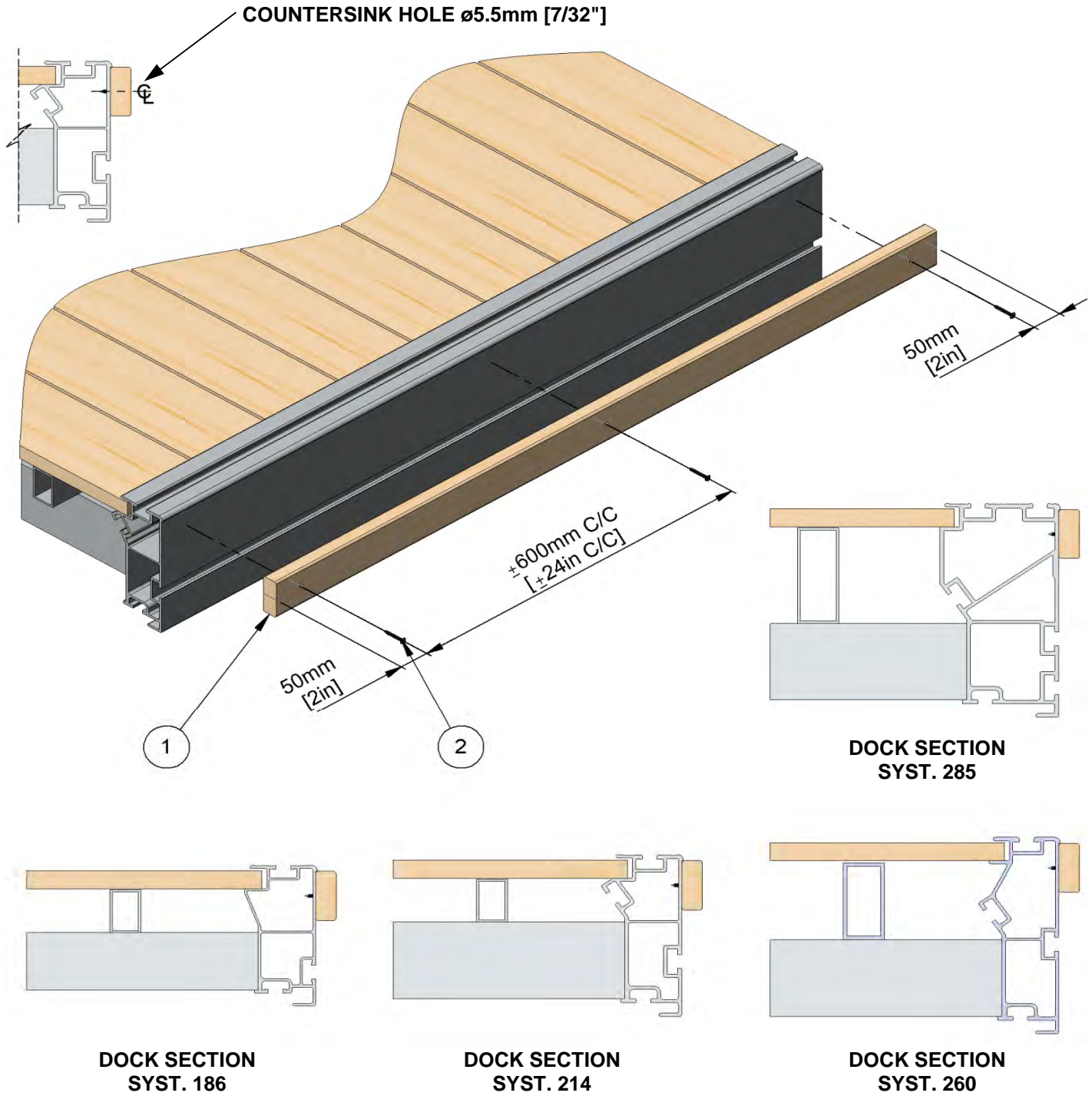
Title: 200 SERIES ALUMINUM FIXED DOCK MAIN WALKWAY - SYSTEM 186 TECHNICAL DRAWING

No. de Contrat	Gérant de projet
5537-B	F. COUTURE
Contract no.	Project manager
Tracé le	Dessiné par
16/02/03	M. LAUZON
Printed	Drawn by
Dessin de réf.	No. de dessin
200MW186_04	5537B-TD02
Ref. drawing	Drawing no.
	Rev.
	00
	Rev.

Title

HALF-PLANK FENDER - 200 SERIES

Item	Part	Description	Quantity		Notes
			Unit	Total	
1	-	HALF-PLANK FENDER	1		
2	SS212028	S/S TAP.SCR.FLT HD ROB SKT #12 X 2"	2		



NOTE: FENDER INSTALLED FULL LENGTH. CUT IF REQUIRED. FIRST AND LAST HOLES MUST BE AT 50mm [2in] FROM ENDS OF EACH FENDER SECTION. FENDER CALCULATED PER METER (3.28 FEET).

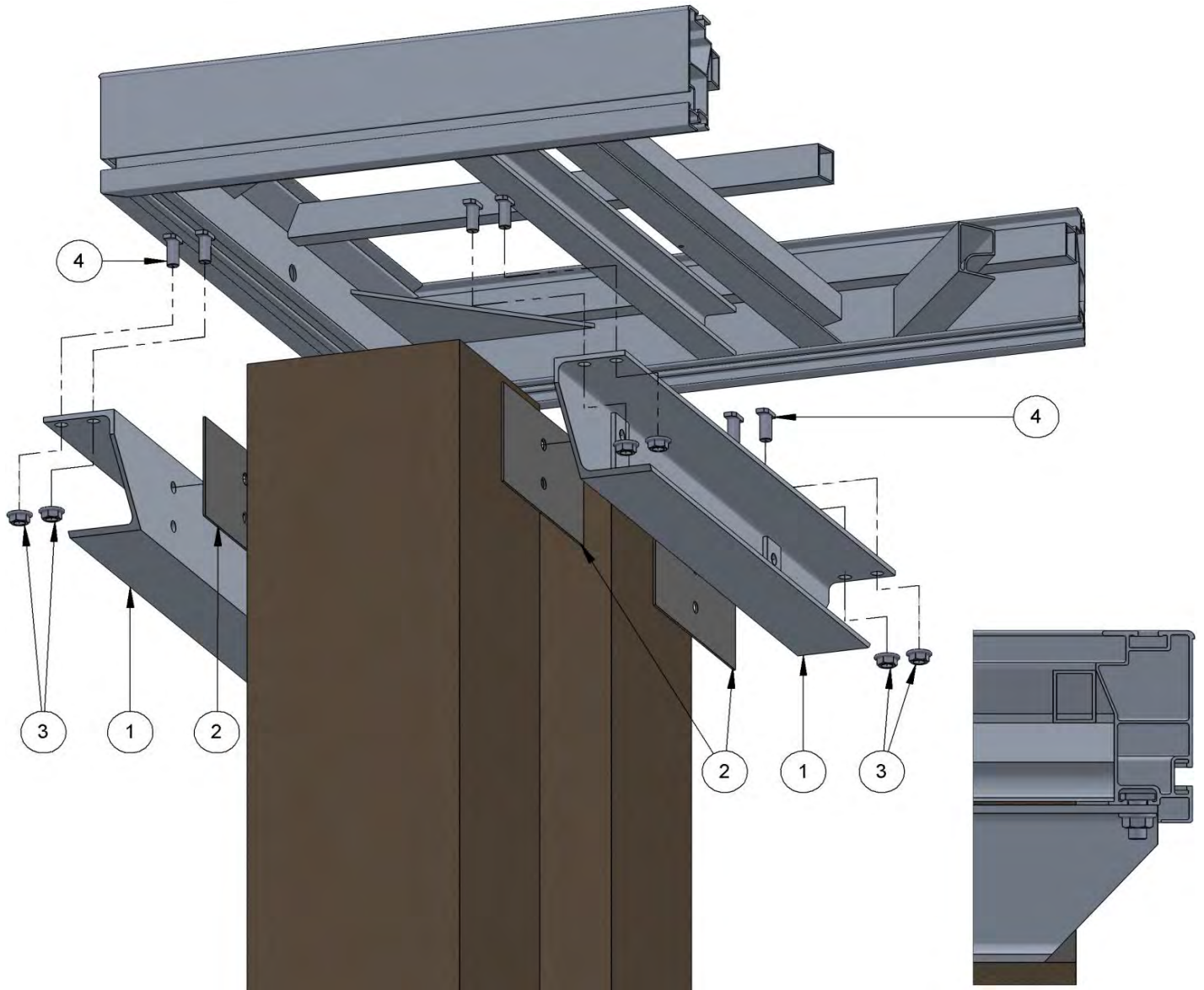
TECHNO MARINE™

Contract no.	Rel.	Qty	Spare parts qty	Drawing no.	Rev.
				IDFD201	4

Title

FIXED DOCK TO PILE SUPPORT BEAMS INSTALLATION

Item	Part	Description	Quantity		Notes
			Unit	Total	
1	-	DOCK BEAM REINFORCEMENT	2		
2	-	INSULATING PLATE	4		
3	SS058001	SS316 FLANGED NUT 0.625"-11 W/NYLOCK PATCH	8		
4	SS001005	SS316 ALRA BOLT 0.625"-11 X 1.500"	8		



ASSEMBLY SECTION VIEW

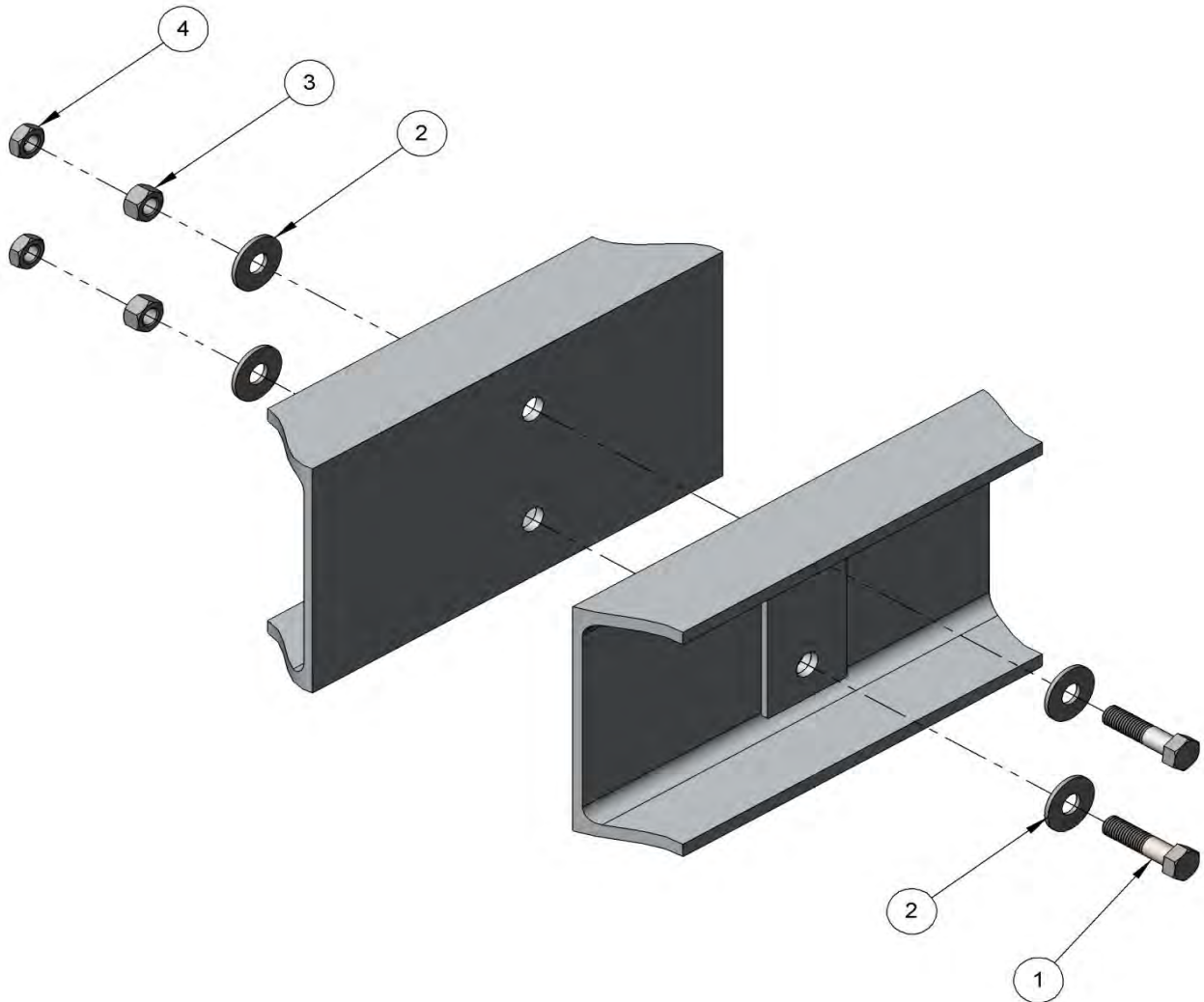
TECHNO MARINE™

Contract no.	Rel.	Qty	Spare parts qty	Drawing no.	Rev.
				IDPF003	0

Title

HEAVY DUTY RIGID CONNECTION ASSEMBLY

Item	Part	Description	Quantity		Notes
			Unit	Total	
1	SS000091	SS304 HEX BOLT 0.750"-10 X 2.75"	2		
2	SS030013	SS304 WASHER 0.750"	4		
3	SS050007	SS304 NUT 0.750"-10	2		
4	SS051010	SS304 JAM NUT 0.750"-10	2		



TECHNO MARINE™

Contract no.	Rel.	Qty	Spare parts qty	Drawing no.	Rev.
				IDDC017	0

CFN 20150077680
OR BK 27376 PG 0820
RECORDED 03/04/2015 14:27:39
Palm Beach County, Florida
AMT 575,000.00
Doc Stamp 4,025.00
Sharon R. Bock, CLERK & COMPTROLLER
Pgs 0820 - 823; (4pgs)

This Document Prepared By and Return to:
Carl E. Siegel, Esq.
Siegel, Lipman & Shepard, LLP
5355 Town Center Road - Ste. 801
Boca Raton, FL 33486

Total Consideration: \$575,000.00
Parcel ID Number: 56-43-42-28-00-003-0090

Warranty Deed

This Indenture, Made this 20th day of February, 2015 A.D., Between
Inlet Harbour LLC, a Florida limited liability company and **Leslie Osborne**, as Trustee for Young Investment Company, a Nevada general partnership, of the County of **Palm Beach**, State of **Florida**, grantor, and
Riviera Shores, LLC, a Florida limited liability company, whose address is: 800 NORTH ROAD, BOYNTON BEACH, FL 33435 of the County of **Palm Beach**, State of **Florida**, grantee.

Witnesseth that the GRANTOR, for and in consideration of the sum of

----- **TEN DOLLARS (\$10)** ----- DOLLARS,
and other good and valuable consideration to GRANTOR in hand paid by GRANTEE, the receipt whereof is hereby acknowledged, has granted, bargained and sold to the said GRANTEE and GRANTEE'S heirs, successors and assigns forever, the following described land, situate, lying and being in the County of **Palm Beach** State of **Florida** to wit:

The South 125 feet of the North 677.56 feet of Government Lot 3, Section 28, Township 42 South, Range 43 East, lying West of the high water mark of Lake Worth and East of a line 486.5 feet East of, and parallel to, the East line of Lot 33, of INLET SHORES, according to the plat thereof recorded in the Public Records of Palm Beach County, Florida, in Plat Book 13, Page 8.

Being the same property conveyed to Harry Simmons and Vesta Simmons, his wife, from Stafford Bacon Beach and John Bernard Beach, individually and as Co-Executors of the Estate of Annie B. Beach, deceased, joined by their wives, Catherine B. Beach and Hilda Mary Beach, respectively, by deed dated December 23, 1957, in Official Record Book 148, Page 450, Palm Beach County, Florida Public Records.

TOGETHER with all of that real property conveyed by Trustees of the Internal Improvement Fund of the State of Florida Deed No. 22842 (931-50) recorded July 24, 1961, in Official Record Book 657, Page 702, Palm Beach County, Public Records, more particularly described as:

A parcel of submerged land in Section 28, Township 42 South, Range 43 East, Palm Beach County, Florida, more particularly described as follows:

COMMENCING at a point in the high water line on the West shore of Lake Worth, said point being in a line 552.56 feet South of, and parallel to, the North line of Government Lot 3, of said Section 28, at a distance of 640.36 feet East of the East line of Lot 33, INLET SHORES, according to the plat thereof, recorded in Plat Book 13, Page 8, Public Records of Palm Beach County, Florida; said point being also in the City of Riviera Beach Bulkhead Line, established by Ordinance No. 432, on October 1, 1957, and the POINT OF BEGINNING of the herein described tract of land; Thence South 14°27'23" East, along said City of Riviera Beach Bulkhead Line, a distance of 87.63 feet to a point in the North right of way line of State Road No. 703, extended Easterly according to the plat thereof recorded in Road Plat Book 1, at Page 73, Public Records of Palm Beach County, Florida; Thence South 87° 41'10" West along said North right of way line of State Road No. 703, a distance of 14.00 feet to a point in the said High Water Line on the Westerly shore of Lake Worth, said point

INLETHARBOUR

being the face of a Timber Bulkhead; Thence North 07°03'50" West, along said High Water Line and the face of said Timber Bulkhead, a distance of 41.00 feet; Thence North 02°22'04" West, along said High Water Line, a distance of 44.78 feet to the POINT OF BEGINNING.

AND all of that real property conveyed in Trustees of the Internal Improvement Fund of the State of Florida Deed No. 22843 (931-50) recorded July 24, 1961, in Official Record Book 657, at Page 700, more particularly described as follows:

A tract of sovereignty land now filled in Section 28, Township 42 South, Range 43 East, Palm Beach County, Florida; more particularly described as follows:

BEGIN at a point in a line 552.56 feet South of, and parallel to, the North line of Government Lot 3 of said Section 28, at a distance of 486.5 feet East of the East line of Lot 33, INLET SHORES, according to the plat thereof, recorded in Plat Book 13, Page 8, Public Records of Palm Beach County, Florida, said point being also the Northwest corner of the herein described tract of land; Thence South 88°02'35" East, along said parallel line, 153.86 feet to a point in the High Water Line on the West shore of Lake Worth; Thence South 02°22'04" East, along said High Water Line, 44.78 feet to an existing Timber Bulkhead; Thence South 07°03'50" East, along the face of the said Timber Bulkhead, a distance of 41.00 feet to a point in the North right of way line of State Road No. 703, according to the plat thereof, recorded in Road Plat Book 1, at Page 73, Public Records of Palm Beach County, Florida; Thence South 87°41'10" West, 95.9 feet along said North right of way line of State Road No. 703, to the beginning of a curve concave to the North, whose radius is 5679.65 feet; Thence Southwesterly and Westerly along the arc of said curve and said North right of way line, a distance of 67.80 feet to a point in a line parallel to and 486.50 feet East of the East line of said Lot 33, INLET SHORES; Thence North 01°07'25" West, along said parallel line, a distance of 96.87 feet to the POINT OF BEGINNING.

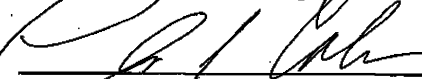
LESS a 3 foot wide strip of land over, through and across a parcel of land in Government Lot 3, Section 28, Township 42 South, Range 43 East; said 3 foot wide strip of land lying Westerly of, and abutting, the Town of Riviera Beach Bulkhead Line as recorded in Plat Book 27, at Page 142, of the Public Records of Palm Beach County, Florida; bounded on the South by the North right of way line of State Road A-I-A (Blue Heron Boulevard) and bounded on the North by a line 552.56 feet Southerly of, and parallel to, the North line of said Government Lot 3.

Subject to: Real Estate Taxes and Assessments for the year 2015 and all subsequent years which are not yet due and payable; Easements, restrictions, reservations, conditions and limitations of record, including but not limited to all zoning and governmental rules and regulations.

and the grantor does hereby warrant the title to said land, and will defend the same against lawful claims of all persons whomsoever.

In Witness Whereof, the grantor has hereunto set its hand and seal the day and year first above written.

Signed, sealed and delivered in our presence:



Witness:

Charles F. Cohen

Printed Name:

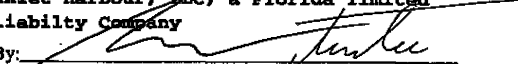
Patricia A. Norton


Witness:

PATRICIA A. NORTON

Inlet Harbour, LLC, a Florida limited liability Company

By:


Leslie Osborne, as Trustee for Young Investment Company, a Nevada general partnership


Leslie Osborne, as Trustee for Young Investment Company, a Nevada general partnership

INLETHARBOUR

**STATE OF Florida
COUNTY OF Palm Beach**

The foregoing instrument was acknowledged before me this 20th day of **February, 2015** by **Leslie Osborne, as Trustee for Young Investment Company, a Nevada general partnership, Member of Inlet Harbour LLC, a Florida limited liability company**, who is personally known to me or who has produced his **Florida driver's license** as identification.



PATRICIA A. MOULTON
MY COMMISSION # EE 176527
EXPIRES: May 21, 2016
Bonded thru Budget Notary Services

Patricia A. Moulton

Printed Name: PATRICIA A. MOULTON

Notary Public

My Commission Expires: 5/21/16

**STATE OF Florida
COUNTY OF Palm Beach**

The foregoing instrument was acknowledged before me this 20th day of **February, 2015** by **Leslie Osborne, as Trustee for Young Investment Company, a Nevada general partnership**, who is personally known to me or who has produced his **Florida driver's license** as identification.



PATRICIA A. MOULTON
MY COMMISSION # EE 176527
EXPIRES: May 21, 2016
Bonded thru Budget Notary Services

Patricia A. Moulton

Printed Name: PATRICIA A. MOULTON

Notary Public

My Commission Expires: 5/21/16

INLETHARBOUR

Inlet Harbour, LLC, a Florida limited liability company

By: Young Investments, Inc., a Florida corporation, member and statutory manager

By: Robert C. Sorgini
Robert C. Sorgini, President

This is a Notarized Copy
Witness: Lisa A. Kendrick
Printed Name: Lisa A. Kendrick
Witness: Sue Ellen Hurley
Printed Name: Sue Ellen Hurley

STATE OF Florida
COUNTY OF Palm Beach

The foregoing instrument was acknowledged before me this 20th day of February, 2015 by Robert C. Sorgini, President of Young Investments, Inc., a Florida corporation, member and statutory manager of Inlet Harbour, LLC, a Florida limited liability company, who is personally known to me or who has produced his Florida driver's license as identification.



Lisa A. Kendrick

Printed Name: Lisa A. Kendrick

Notary Public

My Commission Expires: //

INLETHARBOUR

w/c 10



CFN 20170140853
DR BK 29033 PG 0363
RECORDED 04/20/2017 16:00:31
Palm Beach County, Florida
Sharon R. Bock, CLERK & COMPTROLLER
Pgs 0363 - 376; (14pgs)

This is not a
copy

SPACE ABOVE THIS LINE FOR PROCESSING DATA	SPACE ABOVE THIS LINE FOR PROCESSING DATA

EASEMENT AND DEDICATION AGREEMENT

THIS EASEMENT AND DEDICATION AGREEMENT ("Agreement") is made this 12th day of April, 2017 ("Effective Date"), by INLET MARINA OF PALM BEACH, LTD., a Florida limited partnership ("Grantor"), whose post office address is: 630 Maplewood Drive, Suite 100, Jupiter, Florida 33458 and SEVEN KINGS HOLDINGS, INC., a Florida corporation ("Grantee"), whose post office address is: 630 Maplewood Drive, Suite 100, Jupiter, Florida 33458.

WITNESSETH:

(Whenever used herein the terms "Grantor" and "Grantee" include all the parties to this instrument and their heirs, legal representatives, assigns and successors in title.)

RECITALS

WHEREAS, Grantor owns the property located in Palm Beach County, Florida, and more particularly described in Exhibit "A" attached hereto and made a part hereof ("Grantor Property"), of which the property described on Exhibit "A-1" is a part ("Easement Area"); and

WHEREAS, Grantor is the "Remaining Owner" and the owner of the "Remaining Property" (as those terms are defined in that certain Reciprocal Easement Agreement dated April 16, 2004, recorded in Official Records Book 16867, Page 1506 of the Public Records of Palm Beach County, Florida, as amended) ("Reciprocal Easement Agreement"); and

WHEREAS, Grantee leases the property located in Palm Beach County, Florida, and which is more particularly described in Exhibit "B" attached hereto and made a part hereof ("Grantee Property").

WHEREAS, Grantor desires to (i) grant to Grantee an non-exclusive easement for

ingress, egress and parking over, upon and across the portion of the Easement Area, and (ii) designate and assign to Grantee the (1) non-exclusive rights to the easement for the use of the "Parking Spaces" in the "Garage" (as those terms are defined in the Reciprocal Easement Agreement) and other parking spaces located on the Grantor Property in the area shown on Exhibit "C" (collectively the "Designated Parking Spaces"), provided, however, Grantee or Grantee's Permitted Persons use of the Designated Parking Spaces permitted herein shall not exceed seventy-five (75) parking spaces at any one time, and (2) non-exclusive easement right of ingress and egress over the drive isles and "Accessway" (as defined in the Reciprocal Easement Agreement as shown on Exhibit "D" attached hereto and collectively referred to with the drive isles herein as the "Drives"); and

WHEREAS, Grantor and Grantee desire to set forth the terms and conditions of said easement.

NOW, THEREFORE, in consideration of the mutual promises and covenants contained herein below and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties do hereby agree as follows:

1. RECITALS. The recitals set forth hereinabove are true and correct in all respects and are incorporated herein by this reference.

2. GRANT OF EASEMENTS.

(A) Access and Parking Easement. By this instrument and subject to its terms and conditions, the Grantor hereby grants and conveys (i) a non-exclusive easement over the Easement Area to Grantee and Grantee's employees, agents, contractors, tenants, invitees and licensees (all of the foregoing persons and invitees including without limitation, the Grantee, are hereinafter referred to as the "Grantee Permitted Persons") for parking in the parking spaces located within the Easement Area and (ii) a non-exclusive easement for ingress, egress and access over, across and upon the paved portions of Easement Area to Grantee and Grantee Permitted Persons for pedestrian and vehicular traffic to access Blue Heron Boulevard from the Drives, parking spaces in the Easement Area and the Grantee Property.

(B) Designation and Grant of Easement Rights Under Reciprocal Easement Agreement. The Grantor hereby grants, conveys and designates unto Grantee and Grantee's Permitted Persons (i) non-exclusive easement over the Drives for ingress, egress and access over the Drives from the Designated Parking Spaces to the Easement Area as shown on Exhibit D to provide pedestrian and vehicular access from the Designated Parking Spaces to the Easement Area over the area as generally shown on Exhibit D, and (ii) a non-exclusive easement over the Designated Parking Spaces for parking for the benefit of Grantee and the Grantee Permitted Persons.

3. NO LIEN. The Grantee agrees not to create any liens upon the Easement Area, Designated Parking Spaces or Drives.

4. CONSIDERATION. The Grantee shall be required to pay to the assignee of Grantor

the sum of Four Thousand Dollars (\$4,000.00) per annum payable on the first (1st) calendar day of the first (1st) calendar month after the sale of Grantor Property by Grantor to its assignee and on each anniversary of said date thereafter, prorated as of the "Termination Date" (as hereafter defined), if applicable.

TERM. It is the intent of the Grantor and Grantee that this Agreement and the rights and obligations hereunder shall terminate on the earlier of (i) the date which Grantee, or Grantee's successors or assigns (including the owner of Grantee's Property), commences construction of a residential tower on Grantee's Property or any portion thereof or (ii) the date that Grantee designates in writing to Grantor or Grantor's assigns an election to terminate this Agreement ("Termination Date"), whereupon as of the Termination Date, this Agreement shall terminate and the rights and obligations of the Grantor and Grantee under this Agreement shall terminate as of the Termination Date.

6. **USE OF THE EASEMENT AREA.** The Grantee Permitted Persons shall use the Easement Area, Designated Parking Spaces and Drives for the purposes set forth in this Agreement in accordance with all applicable current and future federal, state and local laws, rules and regulations, licenses, permits and orders including those of all applicable governmental and quasi-governmental agencies, boards and instrumentalities (the "Applicable Laws"). Grantor reserves the right to change the location or configuration of the Easement Area, the Drives and the Designated Parking Spaces, provided, however, such relocation and/or reconfiguration occur on the Grantor's Property or the Garage and shall not materially alter nor adversely interfere with vehicular or pedestrian access to and from Blue Heron Boulevard and the Drives or use of a comparable number of parking spaces composing the relocated parking, unless such relocation and/or reconfiguration is required by the Applicable Laws in effect. In the event Grantee's and Grantee's Permitted Persons use of the Designated Parking Spaces unreasonably burdens Grantor's marina customers' use of the parking spaces within the Grantor's Property and Garage, Grantor reserves the right to designate the location of the seventy-five (75) Designated Parking Spaces within the Grantor's Property and/or Garage to be allocated for Grantee's and Grantee's Permitted Person use, which designation shall be subject to Grantee's review and approval, which approval shall not unreasonably be withheld.

7. **MAINTENANCE OF THE EASEMENT AREA, DESIGNATED PARKING SPACES AND DRIVES.** Grantor shall at all times maintain the Easement Area, Designated Parking Spaces and Drives in good, clean and sightly condition, free of debris and in compliance with all Applicable Laws but nothing in this Agreement shall require Grantor to modify or improve the Easement Area, Designated Parking Spaces or Drives solely for the purposes of making the easements granted herein compliant with Applicable Laws.

8. **INSURANCE.** So long as this Agreement remains in effect, Grantee shall maintain in effect, at the sole expense of Grantee, general liability insurance in the minimum amount of \$1,000,000 per occurrence, and \$2,000,000 in the aggregate, written on ISO Occurrence form CG 00 01 12-04 or its equivalent. Grantor shall be named as an additional insured on such policy, using ISO Additional Insured endorsement CG 20 10 07-04 and CG 20 37 07-04, or an endorsement providing equivalent coverage to the additional insured. Such insurance shall be in compliance

with the following provisions:

- (a) Primary Insurance. Such insurance shall be primary before any other insurance maintained by Grantor and shall respond to any allegation, claim, loss, damage, demand, judgment or other cause of action arising from any act or omission occurring upon or relating to the Easement Area, Designated Parking or Drives which arise out of use by Grantee or Grantee's Permitted Persons.
- (b) Certificate of Insurance. Such insurance shall be in form and substance reasonably satisfactory to Grantor and shall be issued by insurers with an A.M. Best rating of A: VII or better (unless Grantor has given Grantee prior written approval of an insurer with a lower rating). Grantee shall provide Grantor with a certificate evidencing such insurance coverage within thirty (30) days from the date hereof, which shall provide that Grantee shall endeavor to provide Grantor ten (10) days prior written notice of any cancellation, termination, expiration, non-renewal or material change of the insurance coverage referred to in such certificate. Grantee shall provide Grantor with evidence satisfactory to Grantor that such insurance policy has been renewed not less than ten (10) days prior to the scheduled expiration date thereof.
- (c) Waiver of Subrogation.
- (i) Grantee on behalf of itself and Grantee Permitted Parties hereby waive and release the Grantor Indemnified Parties (as hereinafter defined) from any and all claims against the Grantor Indemnified Parties resulting from risks covered under any insurance policy maintained (or required under this Agreement to be maintained) by Grantee. Grantee shall cause its insurer to likewise waive and release the Grantor Indemnified Parties from any and all claims against the Grantor Indemnified Parties resulting from risks covered under any insurance policy maintained (or required under this Agreement to be maintained) by Grantee.
 - (ii) Grantor on behalf of itself and its partners, shareholders, officers, members, directors, agents and employees hereby waive and release the Grantee and its partners, shareholders, officers, members, directors, agents, employees and Grantee Permitted Parties ("Grantee Representatives") from any and all claims against the Grantee and Grantee Representatives resulting from risks covered under any insurance policy maintained (or required under this Agreement to be maintained) by Grantor. Grantor shall cause its insurer to likewise waive and release the Grantee Representatives from any and all claims against the Grantee Representatives resulting from risks covered under any insurance policy maintained (or required under this Agreement to be maintained) by Grantor.
- (d) Insurance Policy. Promptly after written request from Grantor, Grantee will submit to Grantor a certified copy of its insurance policies for inspection by Grantor.

9. SUCCESSORS AND ASSIGNS. The covenants contained in this Agreement shall be binding upon and inure to the benefit of the parties hereto and their respective successors and assigns, however shall be personal to Grantee and its assigns. Grantee may assign its rights under this Agreement to a third party upon written notice to Grantor.

10. INDEMNITY. Grantee hereby indemnifies and holds harmless Grantor or any tenant or occupant of the Grantor Property, any mortgagee of the Grantor Property, and their respective partners, shareholders, officers, members, directors, agents and employees (collectively, the "Grantor Indemnified Parties"), its successors and assigns, from and against any and all loss, cost, expense, damage, claim, cause of action or liability, including, but not limited to, reasonable attorneys' and paralegals' fees and costs through all trial, appellate and post-judgment proceedings, resulting from or in any way related to the Grantee's use of the Easement Area, Designated Parking Spaces or Drives, including, without limitation, use by Grantee Permitted Persons.

11. COMPLIANCE. Grantee shall comply with all applicable laws, codes, rules, regulations, statutes, ordinances, permits, rules and regulations of applicable governmental authorities, including environmental laws, with respect to use and enjoyment of any of the rights and easements granted herein. In connection with any work to be performed by a Grantee pursuant to this Agreement, all work shall be in accordance with all applicable governmental requirements and permits to the extent appropriate and shall be done in a good and workmanlike manner, free and clear of liens and encumbrances.

12. ATTORNEYS' FEES. In the event of any litigation concerning this Agreement, any provision hereof, or any right or easement reserved or arising under, out of or by virtue of the execution of the delivery and recordation of this instrument, the prevailing party in such litigation shall be entitled to recover its reasonable attorneys' fees and other legal expenses related thereto, including without limitation, those incurred at or before the trial level or in any appellate, bankruptcy or administrative proceeding.

13. TIME OF THE ESSENCE. Time is of the essence with respect to all matters set forth herein.

14. WAIVER. No waiver of any of the provisions of this Agreement shall be effective unless it is in writing, signed by the party against whom it is asserted and any such waiver shall only be applicable to the specific instance in which it relates and shall not be deemed to be a continuing or future waiver.

15. GOVERNING LAW AND SELECTION OF FORUM. This Agreement shall be governed by and construed in accordance with the laws of the State of Florida and venue for any litigation arising hereunder shall be in Palm Beach County, Florida.

16. CAPTIONS. The captions and paragraph headings contained in this Agreement are for reference and convenience only and in no way define, describe, extend or limit the scope or intent of this Agreement, nor the intent of the provisions hereto.

17. COUNTERPARTS. This Agreement may be executed in one or more counterparts, each of which shall be deemed to be an original but all of which shall constitute one and the same Agreement.

18. AMENDMENT. No modification or amendment of this Agreement shall be of any

force or effect unless in writing executed by the Parties and recorded in the Public Records of Palm Beach County, Florida.

19. NOTICE. Any notice, request, demand, instruction or other communication to be given to either party hereunder, shall be in writing and shall either be (i) hand-delivered, (ii) sent by Federal Express or a comparable overnight mail service, (iii) mailed by U.S. certified mail, return receipt requested, postage prepaid, or (iv) sent by telephone facsimile transmission provided that an original copy of the transmission shall be mailed by regular mail to the addresses set forth above.

Notice shall be deemed to have been given upon receipt or refusal of delivery of said notice. The addressees for the purpose of this paragraph may be changed by giving notice. Unless and until such written notice is received, the last addressee and address stated herein shall be deemed to continue in effect for all purposes hereunder.

20. SEVERABILITY. If any provision of this Agreement or any application thereof shall be invalid, illegal or unenforceable in any respect, the validity, legality and enforceability of the remaining provisions hereof and any other application thereof shall not in any way be affected or impaired, and such remaining provisions shall continue in full force and effect.

21. LIENS. Grantee will not suffer or permit any mechanics' lien, equitable lien or any other lien or encumbrance of any kind to be filed or otherwise asserted against the Easement Area, Designated Parking Spaces or Drives, and will cause any such lien to be released or bonded within thirty (30) days of the date of filing same, time being of the essence. No Grantee Permitted Person under any circumstance shall have the power to subject the Easement Area, Designated Parking or Drives to any mechanic's or materialman's lien, or liens of any kind.

22. EXISTING ENCUMBRANCES. Grantee acknowledges and agrees that the Grantor's Property is currently subject to the Reciprocal Easement Agreement and that certain Development Agreement dated on or about March 16, 2004 which was recorded April 27, 2004, in the Official Records Book 16867, Page 1537 (as amended, the "Development Agreement"). Nothing herein is intended to enhance, modify or limit any rights or obligations that Grantor has under the Reciprocal Easement Agreement or the Development Agreement and in the event that any easement or dedication granted in this Agreement is prohibited by the Reciprocal Easement Agreement or Development Agreement then Grantor and Grantee shall work together to amend this Agreement to comply with the Reciprocal Easement Agreement and/or the Development Agreement, as applicable.

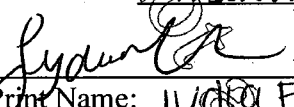
23. MISC. As used in this Agreement, the singular shall include the plural, the plural shall include the singular, and words of any gender shall include the other genders as the context may require. The headings are for convenience only and shall not be interpreted to impart any meaning to the text. The recitals set forth above are true and correct and incorporated herein by reference.

24. ENTIRE AGREEMENT. This Agreement contains the complete understanding and agreement of the parties hereto with respect to all matters referred to herein, and all prior representations, negotiations, and understandings are superseded hereby.

IN WITNESS WHEREOF, Grantor has executed this Amendment as of the day and year set forth above.

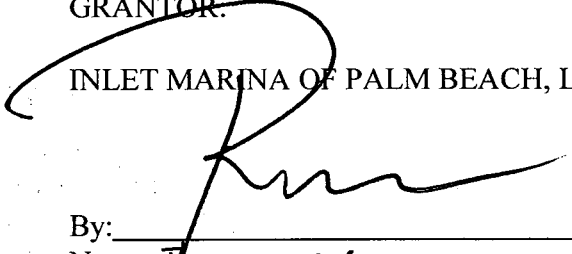
Witnesses:


Print Name: TYSON WATERS


Print Name: LYDIA FERRAN

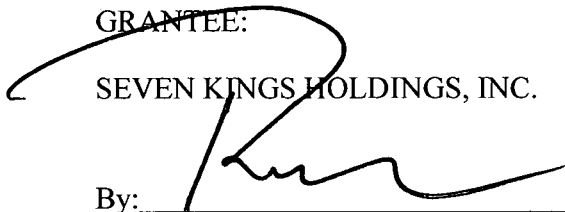
GRANTOR:

INLET MARINA OF PALM BEACH, LTD.


By: _____
Name: RAYMOND E. GRAZIOTTO
Its: President of Inlet Marine, Inc., its General Partner

GRANTEE:

SEVEN KINGS HOLDINGS, INC.


By: _____
Name: RAYMOND E. GRAZIOTTO
Its: President


Print Name: TYSON WATERS


Print Name: LYDIA FERRAN

STATE OF FLORIDA)
) SS:
COUNTY OF PALM BEACH)

I HEREBY CERTIFY that on this day, before me, an officer duly authorized in the State aforesaid and in the County aforesaid to take acknowledgments, the foregoing instrument was acknowledged before me by Raymond E. Graziotto, as President of Inlet Marina of Palm Beach, Inc., a Florida corporation, the General Partner of Inlet Marina of Palm Beach, Ltd., a Florida limited partnership, freely and voluntarily under authority duly vested in him by said corporation and that the seal affixed thereto is the true corporate seal of said corporation. He is personally known to me or who has produced _____ as identification.

WITNESS my hand and official seal in the County and State last aforesaid this 12th day of April, 2017.

Melissa A. Santiago
Notary Public
MELISSA A. SANTIAGO
Typed, printed or stamped name of Notary Public

My Commission Expires:

STATE OF FLORIDA)
) SS:
COUNTY OF PALM BEACH)



I HEREBY CERTIFY that on this day, before me, an officer duly authorized in the State aforesaid and in the County aforesaid to take acknowledgments, the foregoing instrument was acknowledged before me by Raymond E. Graziotto, as President of Seven Kings Management, Inc., a Florida corporation, freely and voluntarily under authority duly vested in him by said corporation and that the seal affixed thereto is the true corporate seal of said corporation. He is personally known to me or who has produced _____ as identification.

WITNESS my hand and official seal in the County and State last aforesaid this 12th day of April, 2017.

Melissa A. Santiago
Notary Public
MELISSA A. SANTIAGO
Typed, printed or stamped name of Notary Public

My Commission Expires:



EXHIBIT "A"

GRANTOR PROPERTY

A parcel of land lying in a portion of Tract "A", as shown on the Plat of Inlet Harbor Marina, recorded in Plat Book 88, Pages 137 and 138, Public Records of Palm Beach County, Florida, together with Lots 27 through 31, as shown on Plat No. 2 of Inlet Shores Subdivision recorded in Plat Book 20, Page 71, Public Records of Palm Beach County, Florida and Lots 19, 20, 22 through 24 and a portion of 28th Street, as shown on the Plat of Lee-Wood Park, recorded in Plat Book 20, Page 94, Public Records of Palm Beach County, Florida, together with a portion of Avenue "A" being more particularly described as follows:

Beginning at the Southeast corner of said Tract "A" thence North 88 degrees 02'35" West along a Southerly line of said Tract "A", a distance of 1.04 feet; thence departing said Southerly line North 14 degrees 27'23" West, a distance of 413.04 feet; thence North 87 degrees 43'17" West, a distance of 265.70 feet; thence South 20 degrees 00'00" West, a distance of 59.46 feet; thence South 00 degrees 00'00" West, a distance of 428.07 feet to a point on the South line of said Tract "A", said point lying on a curve concave to the South, having a radius of 2945.58 feet, a radial bearing of South 06 degrees 33'46" West and a central angle of 03 degrees 10'09"; thence Westerly along said South line and along the arc of said curve, a distance of 162.93 feet to a point of reverse curvature of a curve, concave to the Northeast, having a radius of 25.00 feet and a central angle of 87 degrees 43'48"; thence Northwesterly along said South line and arc of said curve, a distance of 38.28 feet; thence North 01 degree 07'25" East along the West line of said Tract "A", a distance of 187.55 feet; thence departing said West line North 88 degrees 53'01" West, a distance of 66.00 feet to a point on the East line of said Plat No. 2 of Inlet Shores Subdivision; thence North 88 degrees 02'47" West along the North right of way line of 27th Street as shown on said Plat, a distance of 249.99 feet to the Southwest corner of Lot 27, as shown on said Plat; thence departing said North right of way line North 01 degree 07'25" East along the West line of said Lot 27, a distance of 97.49 feet to the Northwest corner of said Lot 27; thence South 88 degrees 02'29" East along the North line of said Lot 27, a distance of 7.27 feet to the Southwest corner of Lot 24 as shown on said Plat of Lee-Wood Park; thence departing said North line North 01 degree 05'25" East along the West line of said Lot 24, a distance of 78.44 feet to a point on the South right of way line of 28th Street as shown on said Plat of Lee-Wood Park; thence North 00 degrees 54'18" East, a distance of 35.01 feet to the Southwest corner of Lot 19 as shown on said Plat; thence North 01 degree 10'23" East along the West line of said Lot 19, a distance of 78.33 feet to the Northwest corner of said Lot 19; thence South 88 degrees 02'35" East along the North line of Lots 19 and 20, as shown on said Plat, a distance of 144.41 feet to a point on the East line of said Plat of Lee-Wood Park; thence along a radial bearing North 53 degrees 43'21" East, a distance of 66.00 feet to a point on the West line of said Tract "A" and a point on a curve concave to the Southwest, having a radius of 544.66 feet and a central angle of 13 degrees 15'43"; thence Northwesterly along said West line and arc of said curve, a distance of 126.07 feet to the Northwest corner of said Tract "A"; thence South 88 degrees 02'35" East, along the North line of said Tract "A", a distance of 619.83 feet to the Northeast corner of said Tract "A"; thence South 14 degrees 27'23" East along the East line of said Tract "A", a distance of 575.86 feet to the Point of Beginning.

EXHIBIT "B"

GRANTEE PROPERTY

The South 125 feet of the North 577.56 feet of Government Lot 3, Section 28, Township 42 South, Range 43 East, lying West of the high water mark of Lake Worth and East of a line 486.5 feet East of, and parallel to, the East line of Lot 33, of INLET SHORES, according to the plat thereof recorded in the Public Records of Palm Beach County, Florida, in Plat Book 13, Page 8.

Being the same property conveyed to Harry Simmons and Vesta Simmons, his wife, from Stafford Bacon Beach and John Bernard Beach, individually and as Co-Executors of the Estate of Annie B. Beach, deceased, joined by their wives, Catherine B. Beach and Hilda Mary Beach, respectively, by deed dated December 23, 1957, in Official Record Book 148, Page 450, Palm Beach County, Florida Public Records.

TOGETHER with all of that real property conveyed by Trustees of the Internal Improvement Fund of the State of Florida Deed No. 22842 (931-50) recorded July 24, 1961, in Official Record Book 657, Page 702, Palm Beach County, Public Records, more particularly described as:

A parcel of submerged land in Section 28, Township 42 South, Range 43 East, Palm Beach County, Florida, more particularly described as follows:

COMMENCING at a point in the high water line on the West shore of Lake Worth, said point being in a line 552.56 feet South of, and parallel to, the North line of Government Lot 3, of said Section 28, at a distance of 640.36 feet East of the East line of Lot 33, INLET SHORES, according to the plat thereof, recorded in Plat Book 13, Page 8, Public Records of Palm Beach County, Florida; said point being also in the City of Riviera Beach Bulkhead Line, established by Ordinance No. 432, on October 1, 1957, and the POINT OF BEGINNING of the herein described tract of land; Thence South $14^{\circ}27'23''$ East, along said City of Riviera Beach Bulkhead Line, a distance of 87.63 feet to a point in the North right of way line of State Road No. 703, extended Easterly according to the plat thereof recorded in Road Plat Book 1, at Page 73, Public Records of Palm Beach County, Florida; Thence South $87^{\circ}41'10''$ West along said North right of way line of State Road No. 703, a distance of 14.00 feet to a point in the said High Water Line on the Westerly shore of Lake Worth, said point

being the face of a Timber Bulkhead; Thence North $07^{\circ}03'50''$ West, along said High Water Line and the face of said Timber Bulkhead, a distance of 41.00 feet; Thence North $02^{\circ}22'04''$ West, along said High Water Line, a distance of 44.78 feet to the POINT OF BEGINNING.

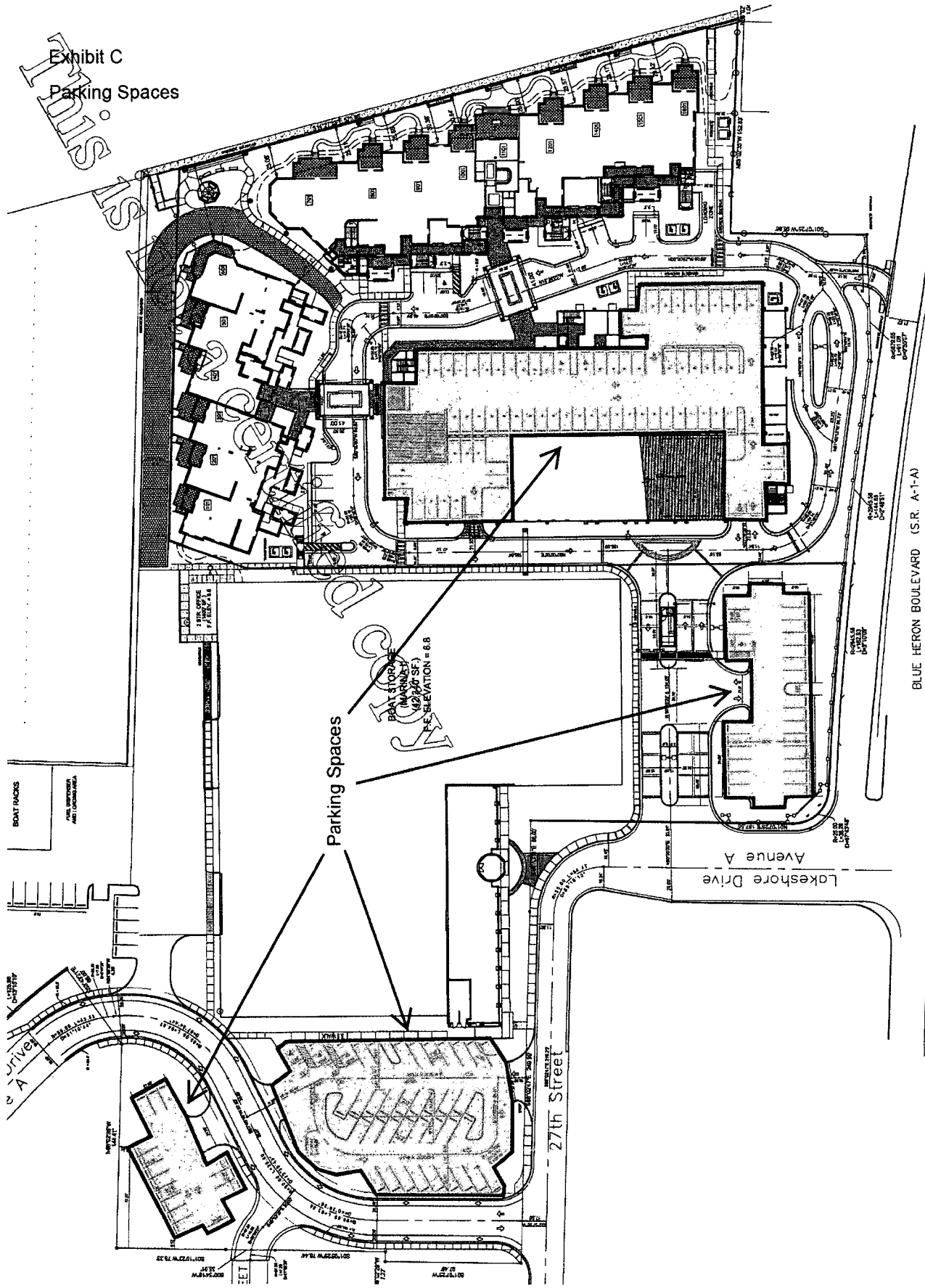
AND all of that real property conveyed in Trustees of the Internal Improvement Fund of the State of Florida Deed No. 22843 (931-50) recorded July 24, 1961, in Official Record Book 657, at Page 700, more particularly described as follows:

A tract of sovereignty land now filled in Section 28, Township 42 South, Range 43 East, Palm Beach County, Florida, more particularly described as follows:

BEGIN at a point in a line 552.56 feet South of, and parallel to, the North line of Government Lot 3 of said Section 28, at a distance of 486.5 feet East of the East line of Lot 33, INLET SHORES, according to the plat thereof, recorded in Plat Book 13, Page 8, Public Records of Palm Beach County, Florida, said point being also the Northwest corner of the herein described tract of land; Thence South $88^{\circ}02'35''$ East, along said parallel line, 153.86 feet to a point in the High Water Line on the West shore of Lake Worth; Thence South $02^{\circ}22'04''$ East, along said High Water Line, 44.78 feet to an existing Timber Bulkhead; Thence South $07^{\circ}03'50''$ East, along the face of the said Timber Bulkhead, a distance of 41.00 feet to a point in the North right of way line of State Road No. 703, according to the plat thereof, recorded in Road Plat Book 1, at Page 73, Public Records of Palm Beach County, Florida; Thence South $87^{\circ}41'10''$ West, 95.9 feet along said North right of way line of State Road No. 703, to the beginning of a curve concave to the North, whose radius is 5679.65 feet; Thence Southwesterly and Westerly along the arc of said curve and said North right of way line, a distance of 67.80 feet to a point in a line parallel to and 486.50 feet East of the East line of said Lot 33, INLET SHORES; Thence North $01^{\circ}07'25''$ West, along said parallel line, a distance of 66.87 feet to the POINT OF BEGINNING.

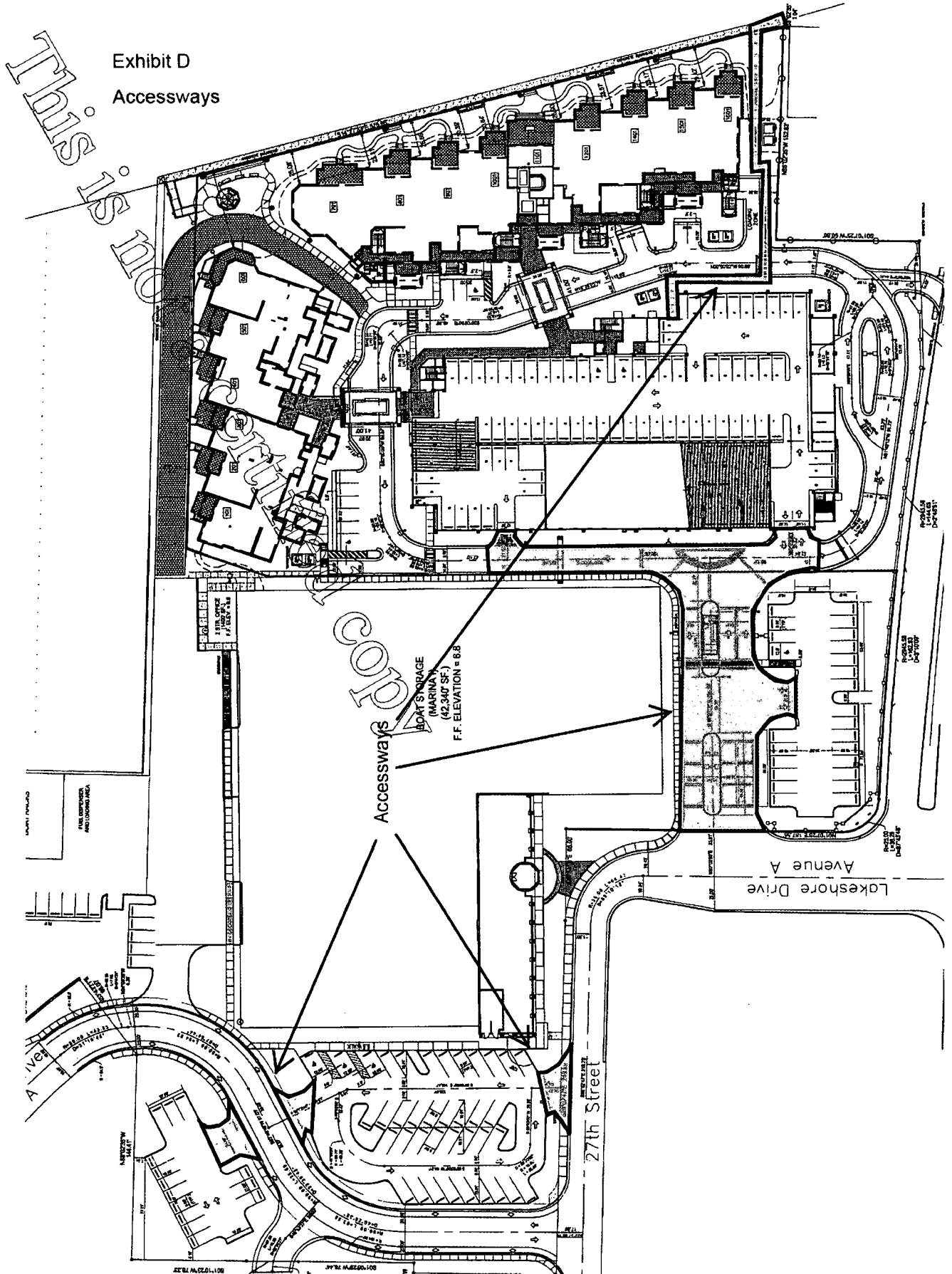
LESS a 3 foot wide strip of land over, through and across a parcel of land in Government Lot 3, Section 28, Township 42 South, Range 43 East; said 3 foot wide strip of land lying Westerly of, and abutting, the Town of Riviera Beach Bulkhead Line as recorded in Plat Book 27, at Page 142, of the Public Records of Palm Beach County, Florida; bounded on the South by the North right of way line of State Road A-1-A (Blue Heron Boulevard) and bounded on the North by a line 552.56 feet Southerly of, and parallel to, the North line of said Government Lot 3.

Exhibit C
Parking Spaces



BLUE HERON BOULEVARD (S.R. A-1-A)

Exhibit D
Accessways



LEASE AGREEMENT

THIS LEASE AGREEMENT ("Lease") is entered into this 21 day of September, 2015 ("Effective Date"), by and between Riviera Shores, LLC, a Florida limited liability company ("Landlord"), having a principal address of 800 North Road, Boynton Beach, Florida 33435, and Seven Kings Holdings, Inc., a Florida corporation, and its permitted assigns ("Tenant"), having a principal address of 630 Maplewood Drive, Suite 100, Jupiter, Florida 33458.

WITNESSETH:

WHEREAS, Landlord owns certain vacant property located at 386 E. Blue Heron Boulevard, Riviera Beach, Florida; and

WHEREAS, Landlord desires to lease to Tenant, and Tenant desires to lease from Landlord, pursuant to the terms and conditions set forth in this Lease, the property as more particularly described herein.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Landlord and Tenant agree as follows:

ARTICLE 1 - TERM AND PREMISES

1.1 Premises.

(a) Subject to the terms and conditions of this Lease, Landlord hereby leases to Tenant and Tenant hereby leases from Landlord, the property located at 386 E. Blue Heron Boulevard, in the City of Riviera Beach, County of Palm Beach, State of Florida, comprising of approximately 16,500 square feet of vacant land and as more particularly described on Exhibit "A", which is attached hereto and made a part hereof ("Premises"). Landlord is offering and providing the Premises in "as-is" condition without representations or warranties of any kind. Tenant's execution of this Lease shall be deemed conclusive evidence of Tenant's acceptance of the Premises and that the same are in good condition and satisfactory for the purposes intended by Tenant as set forth herein.

(b) Within five (5) days of the Effective Date, Landlord shall deliver to Tenant all information in Landlord's possession, including but not limited to: surveys, plans, plats, soil tests, engineering studies, environmental studies and all other documents, studies, licenses, permits, authorizations, approvals, and other applicable documents relating to, or otherwise affecting, the Premises or the use of same.

1.2 Term. The term of this Lease shall be for a period of ten (10) years from the Commencement Date (as defined below). The Lease shall be effective as of the Effective Date and end at 4:59 p.m., on the day prior to the tenth (10th) anniversary of the Commencement Date, unless earlier terminated as provided for herein. Provided Tenant is not then in default nor has been materially in default under the terms of the Lease within twelve (12) months prior to exercising any of the following options, Tenant shall have the right to extend the term of the Lease for six (6) additional five (5) year terms by providing Landlord written notice of Tenant's election to extend the Lease no less than ninety (90) days prior to the end of the then current term (the initial term and renewals shall collectively be hereafter referred to as the "Term").

ARTICLE 2 - RENT

2.1 Base Rent. Except as otherwise provided herein, Tenant shall pay Landlord rent in the amount of

~~XXXXXXXXXXXXXXXXXXXX~~ Dollars and No Cents (\$~~XXXX~~), plus applicable sales taxes, per month, as same may be increased as provided for herein ("Base Rent"). Notwithstanding the preceding sentence, there shall be no Base Rent due until the Commencement Date (as defined below) and for the first six (6) months thereafter the Base Rent shall be ~~XXXXXXXXXX~~ Dollars and No Cents (\$~~XXXX~~) per month, plus applicable taxes ("Modified Rent"). The Commencement Date shall be defined as the date that is forty-five (45) days after Site Plan Approval (as defined below). If the Commencement Date is on a date other than the first of the month, the Rent (as defined below) for the remainder of that month shall be prorated based on the number of days remaining in the month and the number of days in the month and shall be due and payable to Landlord on the Commencement Date. Base Rent and Modified Rent shall be due and paid on or before the first day of each month thereafter during the Term. Tenant shall pay Landlord the Base Rent and Modified Rent, plus applicable sales tax, in advance, without demand and without any setoffs or deductions whatsoever. Base Rent shall not increase for the first five (5) years of the Lease and beginning on the fifth anniversary of the Commencement Date, and each and every anniversary of same thereafter during the Lease, including any renewal as permitted herein, Base Rent shall automatically increase annually by the greater of (i) two and one-half percent (2.5%) or (ii) the change in the Consumer Price Index, All Urban Consumers – South Region All Items, 1982-1984 = 100 (or if same is discontinued a comparable index agreed to by the parties) over the prior year (in no event to exceed five percent (5%)).

2.2 Additional Rent. The following shall be included in the term "Additional Rent" and except as otherwise set forth herein, all Additional Rent shall be due on the first of the month simultaneously with the Base Rent or Modified Rent, as the case may be (Additional Rent and Base Rent/Modified Rent shall collectively hereinafter be referred to as "Rent").

(a) Taxes.

(i) Tenant shall be solely responsible for and shall pay, or as applicable reimburse Landlord within fifteen (15) days of Landlord providing Tenant written notice of such payment, which shall include copies of applicable bills, invoices, or other assessment documentation showing the amount due and owing, as Additional Rent all assessments, real estate taxes, ad valorem taxes of any sort, sewage or sewer improvements, road improvement assessments, and any other governmental charges which are levied or imposed upon all or any portion of the Premises during the Term.

(ii) Tenant shall be solely responsible for and shall pay, prior to such amounts becoming delinquent, any and all taxes and assessments levied or assessed during the Term hereof upon or against: (i) all furniture, fixtures, equipment and any personal property installed or located within the Premises; (ii) all alterations, additions, betterments or Improvements of whatsoever kind or nature made by Tenant to the Premises; and (iii) the rentals payable hereunder by Tenant to Landlord (other than Landlord's Federal and State income taxes thereon).

(iii) Should any governmental agency require that a tax, assessment or other governmental charges relating to the Premises and Tenant's use (including, but not limited to, sales tax, but exclusive of Landlord's income tax) be remitted by Landlord, for and on behalf of said governmental authority and from time to time forwarded by Landlord to said governmental authority, the same shall be paid by Tenant to Landlord, and be collectible by Landlord and payment thereof enforced in the same fashion as provided for the enforcement of payment of Rent hereunder, and for the purpose of enforcing payment thereof, shall be deemed Additional Rent hereunder, payable monthly if said amount is reoccurring but in the event it's not a reoccurring tax, assessment or charge, Tenant shall pay said amount prior to such tax, assessment or charge becoming delinquent.

(iv) For any and all taxes, assessments or charges of whatever kind, to be paid by



Tenant, Tenant shall pay before it is delinquent with the applicable governing agency. Tenant shall be responsible for collection and payment of all sales and use taxes on its food and beverage sales hereunder or any purchases made for the operation of the Premises.

(v) Within five (5) days of Landlord's receipt of any proposed tax, assessment or any other charge notice, but in no event later than any deadline to challenge such notice, Landlord shall deliver the same to Tenant who, upon receipt, shall have the right to challenge any proposed value or tax, through and including filing an appeal to the Property Appraiser, Value Adjustment Board, circuit court, or other appropriate agency. Landlord shall execute a letter of authorization, or other similar authorization as may be required by the applicable governing authority, so that Tenant may pursue such action to the fullest extent permitted by law. In the event of a challenge by Tenant, Tenant shall pay the disputed amounts to the applicable governmental agency pending resolution of any dispute or, in the alternative, shall deposit with Landlord an amount equal to the tax, assessment or charge due plus applicable interest, charges and fees reasonable calculated to cover the entire period of time to conclude the challenge which Landlord shall hold in escrow pending the conclusion of the challenge or appeal, with any such underpayment being immediately due and payable by Tenant and in the event of any overpayment such amounts being immediately returned to Tenant. In no event shall Tenant's challenge or appeal cause or threaten to cause a lien to be placed upon the Premises or issuance of a tax certificate, which in such event, Landlord shall have the sole discretion to pay same to the applicable governing agency.

(b) Utilities and Other Services. Tenant shall be solely responsible for the provision and payment of all services that serve the Premises, including but not necessarily limited to, such costs for water, electric, sewer, maintenance, janitorial services, trash, pest control, data, telephone services and television services and all other services for and relating to the Premises, except as may be otherwise expressly provided in this Lease. If necessary, Landlord shall reasonably cooperate with Tenant, but Landlord shall incur no expense and any and all expenses relating to such utility and other services shall be at Tenant's sole cost and expense, to ensure all utility and other services are separately metered to the Premises and that Tenant is billed directly for such costs. At all times, Tenant shall indemnify and hold Landlord harmless for such utilities and other charges associated with or related to the Premises.

2.3 Sales Tax. Tenant shall pay all applicable sales and use taxes, now or hereafter imposed by any and all taxing authorities, on the Rent and any other fees or charges requiring such payment of taxes, as applicable and as the same may be adjusted from time to time, payable with the Rent. Such amount shall be paid simultaneously with, and as part of, the Rent.

2.4 Late Fee. In the event any installment of Rent, or any other payment obligation, is not paid within five (5) days of the due date set forth herein, Tenant shall pay Landlord a late fee of **XXXXXXXXXX** dollars (\$ **XXX**).

2.5 Bad Rent Checks. If during the Term, as it may be extended, Landlord receives any check from Tenant which is returned by Tenant's bank for insufficient funds, Landlord may require that all checks thereafter be bank certified or cashier's checks (without limiting Landlord's other remedies). For any check returned for insufficient funds, in addition to the above, Landlord shall charge Tenant the greater of \$ **XX** or any bank service charges assessed to Landlord by Landlord's bank.

2.6 Security Deposit. Tenant shall deposit with Landlord simultaneously with the execution of this Lease **XXXXXX** Dollars and No/Cents (\$ **XX XX**) as security for the payment by Tenant of the Rent and all other payments herein agreed to be paid by Tenant, now and in the future, and for the faithful performance by Tenant of the terms, provisions, covenants and conditions of this Lease. Within ten (10) business days of Site Plan Approval (as defined below), Tenant shall deposit with Landlord an additional **XXXXXX**



Dollars and No/Cents (\$ **XXXX**) as additional security for the payment by Tenant of the Rent and all other payments herein agreed to be paid by Tenant, now and in the future, and for the faithful performance by Tenant of the terms, provisions, covenants and conditions of this Lease (collectively hereafter referred to as the "Security Deposit"). It is agreed that Landlord, at Landlord's option, may at the time of any default by Tenant under any of the terms, provisions, covenants or conditions of the Lease apply said sum or any part thereof toward the payment of the Rent and all other sums payable by Tenant under this Lease, and towards the performance of each and every one of Tenant's covenants under this Lease, however, Landlord's action of utilizing the Security Deposit shall not be a waiver of Tenant's default and Tenant shall immediately repay such amount so that the Security Deposit shall remain in the total amount described above, together with any amount that may remain due and owing if utilization of the Security Deposit is insufficient to pay the entire amount due. Notwithstanding anything to the contrary herein, Landlord reserves the right to exhaust any and all rights and remedies against Tenant before resorting to the security deposit, but nothing herein contained shall require or be deemed to require Landlord to do so. At the expiration or earlier termination of the Lease, the Security Deposit shall be returned by Landlord to Tenant within thirty (30) days after the expiration of the Term, less any deductions for damages or repairs to the Premises beyond reasonable wear and tear and any offsets for Rents or other fees and charges outstanding. Landlord may commingle the security deposit with other funds unrelated to this Lease and shall not be required to pay Tenant any interest on said security deposit.

2.7 Tenant shall pay Landlord the Rent at the following address: 800 North Road, Boynton Beach, Florida 33435, or at such other place as Landlord may hereinafter from time to time designate to Tenant in accordance with the notice provisions of this Lease, ensuring at all times that the same be received by Landlord at the address provided for herein on or prior to the due date. All payments due pursuant to this Lease shall be paid in legal tender of the United States of America.

2.8 The intent of the parties is this Lease is truly a triple net lease and Landlord shall not be required to make any payment of any kind with respect to the Premises, except as expressly provided for herein. Tenant shall be responsible for any and all taxes, assessments, dues, fines, fees, charges or other amounts due and associated with or related to the Premises, along with insurances as more particularly described elsewhere herein. At all times, Tenant shall indemnify and hold Landlord harmless for any and all payments due or associated with the Premises.

2.9 Tenant's obligation to pay Rent shall be paid by Tenant to Landlord without notice, demand, setoff, counterclaim, abatement, deduction or defense.

ARTICLE 3 - USE

3.1 Tenant shall use the Premises only for the following purpose and no other purpose whatsoever: a restaurant, bar, gift shop, marina/docking/mooring facilities, together with such other administrative and associated uses as reasonably determined appropriate by Tenant ("Tenant's Use"). No part of the Premises or improvements thereon shall be used in any manner whatsoever for any purpose in violation of any laws, ordinances, regulations or orders of any governmental authority having jurisdiction over the Premises. Tenant shall be solely responsible for complying and shall comply, at all times and in all manners, with all such laws, ordinances, regulations or orders now in effect or hereinafter enacted or passed during the Term of this Lease insofar as the Premises and Tenant's proposed uses are concerned.

ARTICLE 4 - ASSIGNMENT; SUBLETTING; PLEDGING OR ENCUMBERING OF LEASE

4.1 Landlord may assign this Lease upon notice to Tenant, and subject to the terms of this Lease. Tenant shall not either voluntarily, or by operation of law, assign, transfer, mortgage, pledge, hypothecate or encumber this Lease or any interest therein and shall not sublet the Premises, or any part thereof, or



any right or privilege appurtenant thereto, or allow any other person (employees, servants and invitees of Tenant excepted) to occupy or use the Premises, or any portion thereof, without first obtaining Landlord's written consent, which consent shall not be unreasonably withheld or delayed upon Tenant demonstrating that the proposed third party tenant, sublessee or assignee has substantial and material experience in Tenant's Use; provided however, Tenant shall not be released from Tenant's obligations and liabilities of this Lease unless, and until, Tenant demonstrates to Landlord that the proposed third party tenant, sublessee, assignee or corresponding guarantors, as applicable, have the credit worthiness and financial wherewithal to carry out all of the terms and conditions of this Lease. Notwithstanding, Tenant may assign this Lease, without Landlord's prior written consent, if such assignment is to another entity controlled or managed by any one or more of the principals of Tenant by no less than fifty percent (50%). In the event of any assignment or subletting of the Premises, as permitted herein, the assigning party shall not be released from, and remain responsible for, any actions occurring prior to the date of such assignment.

4.2 If this Lease is assigned by Tenant, or if the Premises or any part thereof is sublet or occupied by anybody other than Tenant in violation of this Article, Tenant shall be in default of this Lease and in addition to other remedies available to it, Landlord may, in its sole discretion, collect rent from the assignee, subtenant or occupant, and apply the net amount collected to the Rent herein reserved and retain any overage, but no such assignment, subletting, occupancy or collection shall be deemed a waiver of the default or the covenant requiring Landlord's approval or shall Landlord's collection of rent from the assignee, subtenant or occupant as tenant operate as a release of Tenant from the further performance by Tenant of covenants on the part of Tenant herein contained.

4.3 Any attempted assignment, pledge or encumbrance of this Lease or subletting of all or a portion of the Premises by Tenant in violation of this Article, shall be null and void and any attempt by Tenant to assign, pledge or encumber this Lease or sublet a portion or all of the Premises without the prior written consent of Landlord shall be a violation of and default under this Lease.

4.4 In the event Tenant seeks Landlord approval for an assignment or sublease hereunder, Tenant shall pay Landlord reasonable fees and costs incurred by Landlord in connection with the processing of its approval.

ARTICLE 5 - DEFAULT

5.1 Events of Default. The following events shall be deemed to be events of default by Tenant under this Lease:

(a) Tenant shall fail to pay any Rent or any other sums of money due hereunder and such failure shall continue for a period of five (5) days after being provided with notice of such failure by Landlord;

(b) Tenant shall fail to comply with any term, provision or covenant of this Lease or any other agreement between Landlord and Tenant, and such failure shall continue for a period of thirty (30) days (or such longer period if the breach is not reasonably susceptible to cure within thirty (30) days so long as Tenant commences all reasonable commercial efforts to cure the breach within thirty (30) days and diligently pursues the cure to completion) after being provided with written notice of such failure by Landlord, all of which terms, provisions and covenants of this Lease shall be deemed material;

(c) The Lease interest hereunder demised shall be taken on execution or other process of law in any action against Tenant;

(d) Tenant or any guarantor shall become insolvent or unable to pay its debts as they become

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due, or Tenant notifies Landlord that it anticipates either condition;

(e) Tenant or any third party takes any action to, or notifies Landlord that Tenant or any guarantor intends to, file a petition under any section or chapter of the National Bankruptcy Act, as amended, or under any similar law or statute of the United States or any state thereof; or

(f) A receiver or trustee is appointed for Tenant's leasehold interest in the Premises or for all or a substantial part of the assets of Tenant.

5.2. Remedies. In the event of any default by Tenant, and if such default is not cured in the time period set forth above, then in such event, and in addition to all other remedies available to Landlord at law or in equity, Landlord shall have the option to pursue any one or more of the following remedies:

(a) Landlord shall have the right to cancel and terminate this Lease and dispossess Tenant.

(b) Landlord may elect to enter and repossess the Premises and relet the Premises for Tenant's account, holding Tenant liable in damages for all expenses incurred in any such reletting and for any difference between the amount of rent received from such reletting and that are due and payable under the terms of this Lease.

(c) Landlord may enter upon the Premises and do whatever Tenant is obligated to do under the terms of this Lease and Tenant agrees to reimburse Landlord on demand for any expenses which Landlord may incur in effecting compliance with Tenant's obligations under this Lease and Tenant further agrees that Landlord shall not be liable for any damages resulting to the Tenant from such action.

(d) In addition to the specific remedy or remedies elected by Landlord in the event of Tenant's default, Landlord shall be entitled to recover from Tenant all damages incurred by Landlord by reason of Tenant's default, including, but not limited to, the cost of recovering possession of the Premises; expenses of reletting, including necessary renovations and alterations of the Premises; all court costs and reasonable attorney's fees; and that portion of the leasing commission paid by Landlord and applicable to the unexpired term of this Lease, if any.

(e) In the event of a default by Tenant during the construction of the improvements set forth on the site plan, and Tenant's corresponding abandonment of the project, Landlord may, in its sole and absolute discretion, and in addition to all other remedies available to it at law or in equity, assume control of the construction of Tenant's improvements as provided in Article 15 below. In order to secure the terms hereof, Tenant hereby collaterally assigns all of its rights, title and interest in and to all permits, site plan approvals, including petitions and applications thereof, and any other approvals, licenses and consents from governing city, county, water management districts, U.S. Army Corps of Engineers and all other applicable governmental or quasi-governmental authorities, along with any and all construction and material contracts associated with the construction of Tenant improvements.

5.3 Except to the extent specifically set forth in this Lease, no remedy herein or otherwise conferred upon or reserved to Landlord shall be considered exclusive of any other remedy but the same shall be cumulative and shall be in addition to every other remedy given hereunder or hereafter existing at law or in equity or by statute. Further, all powers and remedies given by this Lease to Landlord may be exercised from time to time and as often as the occasion may arise or as may be deemed expedient. No delay or omission of Landlord to exercise any right or power arising from any default shall impair any such right or power or shall be considered to be a waiver of any such default or acquiescence therein.

5.4 Landlord Default and Remedies. Subject to the terms and provisions below, and in addition to



any other remedy expressly available to Tenant pursuant to this Lease or at law or in equity, should Landlord fail to perform any term or covenant under this Lease and if any such Landlord default is not cured, and continues for, thirty (30) days (unless a shorter notice and cure period is expressly provided herein, in which case such shorter period shall govern, or unless such default is not reasonably capable of being cured within such period in which case the period to cure shall be extended so long as Landlord diligently pursues such cure to completion) following written notice by Tenant to Landlord of such Landlord default, then Tenant shall have the option, (at Tenant's sole discretion), of remedying such Landlord default and, in connection therewith, incurring expenses for the account of Landlord, and any and all such sums expended or obligations incurred by Tenant in connection therewith shall be paid by Landlord to Tenant upon demand. Notwithstanding Tenant's remedies at law and in equity, in no event shall Tenant have the right to deduct its damages from subsequent installments of Rent that from time to time become due and payable by Tenant to Landlord hereunder. In the event the Landlord default is of a nature that Tenant's business within the Premises is materially and negatively impacted in a manner that prevents or substantially disrupts Tenant's business, then if Landlord has not cured such Landlord default within the time period set forth herein, Tenant may, in its sole discretion, terminate this Lease by written notice to Landlord or may cure such default and invoice Landlord for same which Landlord shall reimburse Tenant such amounts within ten (10) days of Landlord's receipt of the invoice.

ARTICLE 6 – IMPROVEMENTS, REPAIRS AND MAINTENANCE

6.1 Except for improvements relating to the approved site plan, as provided below, which shall be reviewed and approved as set forth in such Section, Tenant shall not construct any additional improvements upon the Premises, unless consented to by Landlord in writing, which consent shall not be unreasonably withheld or delayed. For any improvements subsequent to the initial development pursuant to the approved site plan, Landlord shall have ten (10) days from receipt of such plans and proposed improvements to approve, deny or request additional information. If Landlord fails to provide a response within such ten (10) day period the proposed improvements shall be deemed approved by Landlord. For all work proposed by Tenant, Tenant shall be responsible for all costs of construction and for obtaining all necessary approvals and permits for all such improvements.

6.2 At all times, Tenant shall keep the entire Premises in good working order, repair and condition (which condition shall also be clean, sanitary and in good repair). Tenant shall be responsible for all costs and expenses necessary to improve, maintain and repair the Premises during the Term. Tenant shall take good care of the Premises and keep it neat, clean and free from rubbish and waste at all times and shall store all trash and garbage within the improvements on the Premises, a trash dumpster or similar container and as otherwise required by governing local authorities. It being the intent of the parties that this Lease be a true triple net lease, Landlord shall have no maintenance or repair obligations whatsoever.

6.3 Tenant shall be responsible for compliance with any and all requirements, as may be amended, under the Americans with Disabilities Act (the "ADA") as to the Premises, including the buildings and improvements thereon and Tenant's business activities on the Premises. Tenant shall defend, indemnify and hold Landlord harmless of, from and against any and all expenses, liabilities, causes of action, costs or damages suffered by Landlord, including without limitation attorney fees and court costs, by virtue of the Premises and Tenant's operations thereon.

ARTICLE 7 - INSURANCE

7.1 Tenant shall purchase and maintain in effect during the Term and any extension or renewal thereof, a policy or policies of insurance written by a company or companies qualified to write insurance in the State of Florida having a A+ rating and acceptable to Landlord, providing (i) commercial general



liability insurance, on an occurrence basis, with personal injury liability coverage and liability coverage for the Premises, under which Landlord is named as an additional insured (Tenant shall have the affirmative obligation to present a certificate or proof thereof) in amounts not less than Three Million Dollars (\$3,000,000.00) for injury or death in any one occurrence and One Million Dollars (\$1,000,000.00) for damage to property and during construction of Tenant's site plan, builder's risk insurance, along with worker's compensation and employer liability insurance covering all liability under applicable workmen's compensation laws and comprehensive automobile liability insurance covering all motor vehicles used in connection with the construction of the improvements and (ii) insurance coverage against damage to all improvements on the Premises, with Landlord as an additional insured, and Tenant's personal property, including but not limited to flood, fire, windstorm and extended coverage, loss of rents, business interruption, vandalism, malicious mischief and other hazards which policy or policies shall be in such amount equal and sufficient to cover 100% of full replacement cost of such improvements and personal property. Tenant hereby releases and waives any claims against Landlord, its employees, agents, officers, directors, partners and other affiliates from any liability whatsoever in connection with any loss covered by any insurance policies which Tenant carries with respect to the Premises or is required to carry with respect thereto by virtue of this Lease, regardless of whether or not Tenant has complied with such requirement. Tenant also further agrees that in the event that both Tenant and Landlord carry insurance with respect to a particular loss, Tenant's coverage will be deemed primary in all respects. Landlord shall have no obligation to insure any portion of, or property on, about or within, the Premises.

7.2 Within thirty (30) days of the Effective Date, but in any event prior to Tenant performing any action affecting the Premises, including but in no way limited performing any work on the Premises, Tenant shall furnish Landlord with a certificate of all insurance policies required by this Lease evidencing the existence and amounts of such insurance with Landlord as an additional insured and other loss payable clauses satisfactory to Landlord. Upon request, Tenant shall deliver Landlord each insurance policy required under this Lease and copies of each renewal policy or, if such documentation is not readily available, deliver to Landlord receipts or other evidence that the premium thereon have been paid with a copy of said policy being delivered to Landlord within a reasonable time thereafter.

ARTICLE 8 - INDEMNITY

8.1 In addition to other indemnification provisions contained herein, Tenant shall indemnify Landlord and save Landlord harmless from any and all damages, liabilities, causes of action, claims, judgments, personal injuries, property damage, fines, penalties and costs of any kind, including but not limited to reimbursement of reasonable attorneys' fees and costs, sustained or claimed to have been sustained by any person or persons, or property in, upon or about the Premises, whether or not caused or brought about by the act or neglect of Tenant or its agents, servants or employees. Without limiting the generality of the foregoing, Tenant's indemnification obligations contained herein shall cover all activities of the construction of improvements upon the Premises by Tenant as more specifically provided herein. Landlord agrees to indemnify Tenant and save Tenant harmless from any and all liability, claims and loss for personal injury or property damage, or both, sustained or claimed to have been sustained by any person or persons, or property in, upon or about the Premises caused or brought about by the intentional act or gross negligence of Landlord or its agents, servants or employees.

ARTICLE 9 - RIGHT OF INSPECTION AND ACCESS TO PREMISES

9.1 Landlord, or Landlord's duly authorized representative, shall have reasonable access to the Premises and may at such reasonable times and upon reasonable notice and in such manner as not to unreasonably interfere with the construction as provided for in Article 15 below and the business of Tenant enter and

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inspect the Premises. Upon an emergency, Landlord shall be entitled to access on and through the Premises at all times, without notice to Tenant. In furtherance hereof, on or before the Commencement Date Tenant shall provide Landlord a key, or other similar means of entry, to permit Landlord to enter the Premises as permitted herein and elsewhere in the Lease, and in the event Tenant modifies the means of access to the Premises Tenant shall provide Landlord with the necessary means to have continued access to the Premises as set forth herein within two (2) days of such modification.

ARTICLE 10 - SURRENDER UPON TERMINATION

10.1 Tenant covenants and agrees to and with Landlord that upon expiration of the Term, or earlier termination of this Lease, Tenant shall surrender and deliver up to Landlord the Premises in good condition, reasonable wear and tear excepted. Tenant's obligation to observe or perform this covenant shall survive the expiration or other termination of the Term of this Lease. If Tenant shall default in so surrendering the Premises, Tenant's occupancy subsequent to such expiration, whether or not with the consent or acquiescence of Landlord, shall be deemed as a tenancy at sufferance at double the amount of the preceding month's Rent, and subject to all other conditions, provisions and obligations of this Lease insofar as the same are applicable to a tenancy at sufferance.

10.2 Prior to the expiration or earlier termination of this Lease, Tenant shall remove any and all movable equipment and other unattached items which Tenant may have installed, stored or left on the Premises. Tenant shall repair any damage to the Premises caused by its installation, use or removal of such items. In the event Tenant does not make repairs which it is obligated to make hereunder, Tenant shall be liable for and agrees to pay Landlord's costs and expenses in making such repairs. Except as expressly permitted by Landlord, Tenant shall not remove any fixtures (inclusive of fixtures installed and used for Tenant's Use) from or improvements made to the Premises, including but not limited to the construction of improvements by Tenant as provided in Article 15 below. If Tenant shall fail to remove its property as provided in this Article, such property not removed by Tenant shall be deemed abandoned by Tenant and at the option of Landlord shall become the property of Landlord, or at Landlord's option may be removed by Landlord at Tenant's expense plus an administrative fee to Landlord in the amount of eighteen percent (18%) per annum or the maximum lawful rate, whichever is less, or placed in storage at Tenant's expense, or sold or otherwise disposed of, in which event the proceeds of such sale or other disposition shall belong to Landlord.

ARTICLE 11 - DESTRUCTION AND CONDEMNATION

11.1 Fire or Other Casualty. In the event of a partial destruction of ninety percent (90%) or more to the improvements on the Premises or total destruction of the Premises, or such other amount of destruction that prohibits Tenant's reasonable use of the Premises as contemplated herein, which destruction is not caused by or as a result of Tenant's intentional or negligence actions or inactions, as the case may be, during the Lease Term which requires repairs to the Premises, Tenant shall have the right, in Tenant's sole discretion, (a) to terminate the Lease, without penalty however upon Landlord's written election within ten (10) days of such termination Tenant shall be responsible to cause the removal of such destroyed improvements made by Tenant at Tenant's sole expense, and surrender the Premises to Landlord or (b) commence repairs to the Premises (which shall include the filing of permit or similar applications with applicable governing agencies) within one hundred twenty (120) days of Tenant's receipt of any insurance proceeds resulting from such destruction. In such event, Tenant shall not be entitled to a proportionate reduction of Rent while such repairs are being made. Any other partial or total destruction to the Premises shall be rebuilt and repaired by Tenant.

11.2 Condemnation.

(a) If all or a portion of the Premises is taken in the exercise of the power of eminent domain,



Tenant shall be entitled to participate in any award or settlement resulting from the taking to the extent of: (i) Tenant's leasehold interest in the Premises determined without regard to the termination of this Lease by the taking, (ii) business damages and relocation costs, and (iii) the unamortized value of Tenant's improvements to the Premises. If all of the Premises is taken, or a portion of the Premises is taken and the Premises can no longer be used economically for Tenant's purposes, in addition to Tenant's entitlement to participate in any award or settlement resulting from the taking, this Lease will terminate on the date title to the Premises vests in the taking authority and Rent will be prorated to the date of termination. If a portion of the Premises is taken, and the remainder of the Premises can be used economically for Tenant's purposes, in addition to Tenant's entitlement to participate in any award or settlement resulting from the taking, Tenant shall be entitled to a proportionate reduction of Rent equal to the portion of the Premises, and any improvements thereon, taken.

(b) The term "taking" includes any taking by a governmental body or quasi-governmental body, or by a public or private utility authorized by law to exercise the power of eminent domain, and includes a voluntary sale to such body or entity as an alternative to taking.

11.3 Change in Regulations. Notwithstanding anything to the contrary above, in the event that any laws, regulations or applicable codes affecting the Premises change to materially restrict or prohibit Tenant's ability to rebuild pursuant to the approved site plan or continue Tenant's Use, then in such event Tenant may terminate the Lease, without penalty however upon Landlord's written election within ten (10) days of such termination Tenant shall be responsible to cause the removal of such destroyed improvements made by Tenant at Tenant's sole expense, and surrender the Premises to Landlord.

ARTICLE 12 - REPRESENTATIONS AND WARRANTIES

12.1 Representations and Warranties by Landlord.

(a) Landlord is duly organized or formed, validly existing in its state of incorporation and has taken all necessary action to authorize the execution, delivery and performance of this Lease.

(b) The person who has executed this Lease on behalf of Landlord is duly authorized to do so.

(c) Landlord is the owner of the Premises.

(d) The Premises: is not subject to any leases, tenancies, or other occupancy rights, recorded or unrecorded, written or oral, except for this Lease.

(e) Landlord has no notice or actual knowledge of any pending lawsuits, condemnation or eminent domain proceedings with respect to the Property.

(f) Landlord has not received any written notice nor has actual knowledge of the presence or prior discharge of Hazardous Materials (as defined below), underground storage tanks, waste or other environmental conditions which may affect the use of the Premises as contemplated in this Lease, except as otherwise set forth in that certain Ardaman & Associates, Inc. report dated July 23, 2014, a copy of which has been provided to Tenant.

(g) Except as expressly provided otherwise in this Lease, Landlord makes no representation whatsoever as to the condition of the Premises, including but not limited to, use restrictions, water, sewer or other utility connections, governing zoning, code, rules, regulations and ordinances, endangered species or wells.



12.2 Representations and Warranties by Tenant

(a) Tenant is duly organized or formed, validly existing in its state of incorporation and has taken all necessary action to authorize the execution, delivery and performance of this Lease.

(b) The person who has executed this Lease on behalf of Tenant is duly authorized to do so.

(c) TENANT WARRANTS AND REPRESENTS THAT TENANT HAS EXAMINED, CAUSED TO BE EXAMINED AND APPROVED, OR HAS HAD THE OPPORTUNITY TO EXAMINE AND APPROVE ALL THINGS CONCERNING THE PREMISES WHICH TENANT DEEMS MATERIAL TO TENANT'S LEASING OF THE PREMISES AND THE USE OF THE PREMISES. TENANT ACKNOWLEDGES AND AGREES THAT (1) TENANT IS LEASING THE PREMISES "AS-IS, WHERE IS" AS OF THE EFFECTIVE DATE AND BASED ON TENANT'S OWN INSPECTION, INVESTIGATION AND EVALUATION; (2) NEITHER LANDLORD NOR ANY AGENT OF LANDLORD HAS MADE ANY REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PREMISES OR WHICH HAVE INDUCED TENANT TO EXECUTE THIS LEASE; AND (3) ANY OTHER REPRESENTATIONS AND WARRANTIES NOT EXPRESSLY PROVIDED FOR IN THIS LEASE ARE EXPRESSLY DISCLAIMED BY LANDLORD.

ARTICLE 13 - HAZARDOUS MATERIALS

13.1 As used in this Lease, "Hazardous Material" shall mean any hazardous, toxic or radioactive substance, material, matter or waste which is or becomes regulated by any federal, state or local law, ordinance, order, rule, regulation, code or any other governmental restriction or requirement, and the terms "Hazardous Substance" and "Hazardous Waste" as defined in the Comprehensive Environmental Response, Compensation and Liability Act ("CERCLA") , as amended, 42 U.S.C. § 9601 et seq., the Resource Conservation and Recovery Act ("RCRA"), as amended, 42 U.S. C. § 6901 et seq.

13.2 Tenant shall not, without the prior written consent of Landlord, which may be withheld in Landlord's sole and absolute discretion, cause or permit, knowingly or unknowingly, any "Hazardous Material" (hereinafter defined) to be brought or remain upon, kept, used, discharged, leaked, or emitted in or about, or treated at the Premises. Should Landlord consent in writing to Tenant bringing, using, storing or treating any Hazardous Material in or upon the Premises, Tenant shall strictly obey and adhere to any and all federal, state or local laws, ordinances, orders, rules, regulations, codes or any other governmental restrictions or requirements (including, but not limited to, CERCLA and/or RCRA), which in any way regulates, governs or impacts Tenant's possession, use, storage, treatment or disposal of said Hazardous Material.

13.3 Tenant hereby agrees to, and shall, indemnify, defend and hold Landlord, its officers, partners, directors, shareholders, employees and agents, harmless from any and all claims, judgments, damages, fines, penalties, costs (including attorney, consultant and expert fees) , liabilities (including sums paid in settlement of claims) or loss which arise during or after the Term, in connection with the presence or suspected presence of Hazardous Materials in the soil, groundwater, or soil vapor on, about or under the Premises. Without limiting the generality of the foregoing, this indemnification shall survive the expiration of this Lease and specifically covers costs incurred in connection with any investigation of site conditions or any cleanup, remedial, removal or restoration work required by any federal, state or local governmental agency or political subdivision because of the presence or suspected presence of Hazardous Materials in the soil, groundwater or soil vapor on or under the Premises.

ARTICLE 14 - SUBORDINATION

14.1 Tenant shall, upon request of the holder of a mortgage or deed of trust in the nature of a



mortgage on the Premises ("Mortgagee") subordinate any interest which it has by virtue of this Lease, and any extensions and renewals thereof to any mortgages or deeds of trust placed upon the Premises by Landlord, if and only if such Mortgagee shall execute, deliver and record in the appropriate registry of deeds a recognition and non-disturbance agreement in a form commercially reasonable based on standards of practice in the county where the Premises is located. Landlord shall, at or prior to the Lease commencement, secure from Landlord's present Mortgagee, if any, a non-disturbance agreement and Landlord shall secure from any future Mortgagee or lienholder of Landlord a non-disturbance agreement. If Landlord shall not obtain such non-disturbance agreement, then this Lease shall not be subordinate to any such future lien, mortgage, or refinancing. Tenant shall also attorn to any Mortgagee upon request from Landlord. Tenant agrees that it will from time to time upon request of Landlord execute and deliver to Landlord a written statement addressed to Landlord (or a party designated by Landlord), which statement shall identify Tenant and this Lease, shall certify that this Lease is unmodified and in full force and effect, shall confirm that Landlord is not in default as to any obligations of Landlord under this Lease (or if Landlord is in default, specifying any default) and shall contain such other information or confirmations as Landlord may reasonably require.

ARTICLE 15 – SPECIAL CONDITIONS

15.1 Site Plan Approval and Tenant Improvements.

(a) Tenant acknowledges and understands that the Premises, as of the Effective Date, is vacant land. Tenant shall have the right, subject to Landlord's review and approval, which approval shall not be unreasonably withheld or delayed, at Tenant's sole cost and expense, to apply for, and pursue to completion, approval of a site plan for the construction of a building and accessory structures and facilities on the Premises for Tenant's Use. Landlord shall have ten (10) days from receipt of the proposed site plan to approve, deny or request additional information. As part of Landlord's approval, Landlord shall have the right to approve, in advance, the architectural design and quality of the construction and materials proposed to be used for the site plan improvements. All contractors, engineers, architects and other professionals used for the design and construction of the improvements shall at all times be properly licensed and insured. Landlord's approval of the site plan shall not impose upon Landlord or its representatives any obligation with respect to the improvements or the compliance of such improvements or plans with applicable governmental laws, codes, rules, regulations or other requirements. If Landlord fails to provide a response within such ten (10) day period the proposed improvements shall be deemed approved by Landlord. Except for revisions to the site plan increasing the intensity of the proposed use of the Premises or revisions that materially modify the proposed improvements, revisions to the site plan made by or at the request of any applicable governing agency shall not require Landlord's prior review or approval. In the event Tenant fails to obtain site plan approval within one (1) year from the Effective Date, or if during such one (1) year period said site plan is denied or in Tenant's discretion such proposed site plan is likely to be denied, Tenant shall have the right, in its sole discretion, (i) to terminate this Lease, and receive a return of Tenant's Security Deposit, by providing Landlord Tenant's notice of such election prior to approval of such site plan by the applicable governing agencies, or (ii) elect to proceed with the Lease and shall have six (6) additional months to obtain such site plan, however shall pay the Modified Rent during such period of time. In the event Tenant fails or is otherwise unable to obtain site plan approval within such additional six (6) month period, during such six (6) month period, Tenant may, in its sole discretion (i) terminate the Lease and receive a return of Tenant's Security Deposit by providing Landlord Tenant's notice of such election prior to approval of such site plan by the applicable governing agencies or (ii) elect to proceed with the Lease and the date of such election shall be deemed the Commencement Date as set forth in Section 2.1 of the Lease.

(b) Upon approval of such site plan by the applicable governing agencies, Tenant shall, at Tenant's cost, use commercially reasonable efforts and diligence to develop the Premises in compliance with the approved site plan, as the same may be amended from time to time. Tenant shall be responsible, at Tenant's sole expense, to complete all improvements required to the Premises to comply with the approved site plan and for the occupancy and



intended use of the Premises. Any permits or other approvals necessary to improve the Premises, shall be completed and closed out at Tenant's expense. Landlord agrees to execute any and all such documents required by applicable parties for Tenant to obtain site plan approval and development the Premises as approved therein.

(c) As used in this Lease, the term "Site Plan Approval" shall mean the date that all applicable governing agencies have approved Tenant's proposed site plan and all appeal periods have been exhausted.

(d) At all times, Tenant's site plans and all improvements shall comply with all applicable building codes, laws, codes, rules, regulations or other requirements imposed by the city, county, water management districts, U.S. Army Corps of Engineers and all other applicable governmental or quasi-governmental authorities. Notwithstanding, all improvements shall be performed and installed in a good and workman like manner.

(e) At all times, Tenant shall keep the Premises free and clear from any and all liens arising out of any work performed, materials furnished or obligations incurred by or on behalf of Tenant, including but not limited to Tenant's site plan improvements. No mechanics liens shall be placed against the title to the Premises for or on account of the construction of any improvement upon the Premises or any repair, alterations, demolition, or removal of such improvement, or for any other purpose, by any laborer, contractor, subcontractors and other person contracting with Tenant. All laborers, mechanics, materialmen, contractors, subcontractors and others are called upon to take due notice of this clause, it being the intent of the parties hereby to expressly prohibit any such lien against the Landlord's title or interest by the use of this language as and in the manner contemplated by Section 713.10 of the Florida Statutes. Tenant shall promptly pay or bond any liens and further shall indemnify and save harmless the Landlord from and against any loss, cost or expenses occasioned by any lien prohibited hereby, including but not limited to any and all reasonable attorney fees, cost and expense of defending or removing same, whether the claim therefore be with or without merit or valid or invalid. Further, Tenant shall promptly notify any and all contractors making any improvements to the Premises of the provisions of this Lease contained in this paragraph. It shall be within the Landlord's discretion to select the recording of either the short form memorandum of Lease or the notice as more particularly described above. It is the intent of this language to comply with Section 713.10 of the Florida Statutes, as amended.

15.2 Except as expressly provided otherwise herein, Tenant shall, at Tenant's sole cost, be permitted to use the Premises to the fullest extent permitted by applicable governing authorities, provided it is for Tenant's Use as defined herein.

15.3 During the Term of this Lease, provided Tenant is not in default, Tenant shall have a right of first refusal in the event Landlord desires to sell all or any portion of the Premises. Upon Landlord receiving an offer Landlord intends to accept, Landlord shall provide Tenant with written notice of Landlord's intention to sell, including terms and conditions, of such offer and Tenant shall have fifteen (15) days from receipt of such written notice to exercise this option after which, if such option is not exercised, such option shall terminate for the proposed sale, however Tenant shall retain its right of first refusal for any subsequent offers during the Term.

15.4 During the Term of this Lease, and upon Tenant opening the proposed restaurant on the Premises, Tenant agrees to provide Landlord with a food and beverage credit of ~~XXXXXXXX~~ Dollars (\$ ~~XXX~~) per quarter to be used at Tenant's restaurant located on the Premises, adjusted every five years with an increase of ~~X~~ percent (~~XX~~) from the previous amount.

15.5 If Landlord, in coordination and cooperation with Tenant, and subject to Tenant's reasonable



approval, obtains the right to use lands adjacent to the Premises from the Florida Department of Transportation, or other applicable state agency, such additional lands shall be incorporated and become a part of the Premises described in this Lease. The parties agree, if and as necessary, to enter into an amendment to this Lease in such event to include such additional lands as part of the Premises leased herein.

ARTICLE 16 - MISCELLANEOUS PROVISIONS

16.1 Any notice required or permitted to be given by the terms of this Lease or under any applicable law by either party shall be in writing and shall be either hand delivered, faxed, e-mailed, sent by reputable overnight delivery or sent by certified mail, postage prepaid, return receipt requested. Such written notice shall be deemed received when actually received by the recipient, as evidenced by such transaction receipt as normally available for such delivery method, or upon the recipient's refusal of delivery. Unless and until notice is provided changing the applicable information, any such written notice shall be addressed as follows:

To Tenant : Seven Kings Holdings, Inc.
 Attn: Raymond E. Graziotto
 630 Maplewood Drive, Suite 100
 Jupiter, Florida 33458
 Email: raymond@skholdings.com

with copy to: Tyson J. Waters, Esq.
 630 Maplewood Drive, Suite 100
 Jupiter, Florida 33458
 Email: tyson@skholdings.com

To Landlord: Riviera Shores, LLC
 Attn: Andrew V. Podray
 800 North Road
 Boynton Beach, Florida 33435
 Email: pod4270@aol.com

with copy to: Vincent J. Piazza, Esq.
 Mathews & Piazza, P.A.
 1325 S. Congress Ave., Suite 104
 Boynton Beach, Florida 33426
 Email: vjp@mppalaw.com

16.2 Successors and Assigns. The respective rights and obligations hereunder shall inure to, and, be binding upon, the respective heirs, distributee, devisees, legal and personal representatives, permitted assigns, grantees, and successors in interest of both Landlord and Tenant.

16.3 Attorneys' Fees and Costs. The prevailing party shall be entitled to reasonable attorneys' fees through and including all trial and appellate levels and all other costs incurred in any actions taken by or against it relating to a claim, controversy or dispute arising from or relating to the terms, conditions or provisions of this Lease; provided however, in the event Landlord is forced to retain an attorney to enforce or defend against the enforcement of any term, provision or condition of this Lease by reason of a Default, Landlord shall be entitled to recover all costs incurred, including attorneys' fees and cost for services rendered in connection with such enforcement or defense whether or not litigation is initiated.



16.4 Time is of the essence in the performance of all obligations set forth in this Lease.

16.5 Estoppel Certificate. Tenant shall, within fifteen (15) days of receipt of a request from Landlord, executed and deliver to Landlord a written statement certifying that this Lease is unmodified and in full force and effect (or if there have been modifications, stating the modifications and that the Lease is in full force and effect as modified), certifying the dates to which the Rent has been paid, and stating whether or not, to the best of Tenant's knowledge, Landlord is in breach in the performance of any of its obligations under this Lease, and if so, specifying each such breach of which Tenant has knowledge, it being intended that any such statement delivered pursuant hereto may be relied upon by third parties.

16.6 Upon either party's request a memorandum of the Lease, in a form reasonably acceptable to the parties, providing a description of the Premises, the Term and such other information as deemed appropriate by the parties, may be recorded in the Public Records of Palm Beach County. No memorandum shall be filed by Tenant until the right to terminate set forth in Section 15.1 has expired or otherwise been waived.

16.7 This Lease contains all the terms, provisions, agreements, representations and understandings between Landlord and Tenant relating to the matters set forth herein and no prior or contemporaneous agreement, representation or understanding, whether written or oral, pertaining to same shall be of any force or effect.

16.8 Upon Tenant paying the Rent reserved hereunder and observing and performing all of the covenants, conditions and provisions on Tenant's part to be observed and performed hereunder, Tenant shall have quiet possession of the Premises for the entire term hereof.

16.9 This Lease shall be governed by the laws of the State of Florida and venue with respect to any litigation being solely in Palm Beach County, Florida.

16.10 The Article and section headings in this Lease are intended only for convenience and for ease of reference, and in no way do such titles define, limit or in any way affect this Lease or the meaning or contents of any material contained herein.

16.11 This Agreement has been mutually negotiated by the parties and this Lease shall not be construed more strictly against either party by virtue of which party prepared this Lease.

16.12 No waiver of any breach of any covenant, agreement or provision of this Lease shall be construed or held to be a waiver of any other breach or waiver, acquiescence or as consent to any further or succeeding breach of the same covenant agreement or provision.

16.13 Neither this Lease, nor any other agreement or other arrangement between Landlord and Tenant, is intended, nor shall the same ever be construed, so as to (a) create a partnership between Landlord and Tenant, (b) make Landlord and Tenant joint venturers, (c) make Tenant an agent of Landlord or (d) make Landlord in any way responsible for the obligations, liabilities, debts or losses of Tenant.

16.14 Except for Reichel Realty & Investments, Inc., who is to be paid by Landlord for brokerage services relating to this Lease, each party represents to the other that neither has dealt with any broker, agent, or other person in connection with this leasing and each party agrees to indemnify the other party against and to hold it harmless from any and all claims by any broker, agent, or other person claiming a commission by or through the non-indemnifying party.

16.15 If any provision or provisions of this Lease should be held to be invalid or unenforceable by any court of competent jurisdiction, such ruling shall not affect the validity or enforceability of the remainder of this



Lease and the Lease, as so modified, shall remain in full force and effect.

16.16 LANDLORD AND TENANT WAIVE TRIAL BY JURY IN ANY ACTION, PROCEEDING OR COUNTERCLAIM BROUGHT BY EITHER OF THEM AGAINST THE OTHER ON ANY MATTERS ARISING OUT OF OR IN ANY WAY CONNECTED WITH THIS LEASE, THE RELATIONSHIP OF LANDLORD AND TENANT, AND TENANT'S USE OR OCCUPANCY OF THE PREMISES.

16.17 All references to "days" in this Lease shall refer to, and mean, calendar days, unless expressly provided as "business days." A "business day" shall be deemed to be Monday through Friday, excluding legal holidays.

16.18 Radon is a naturally occurring radioactive gas that, when it has accumulated in a building in sufficient quantities, may present health risk to persons who are exposed to it over time. Levels of radon that exceed Federal and State guidelines have been found in buildings in Florida. Additional information regarding radon and radon testing may be obtained from your county public health unit.

16.19 THE PREMISES ARE BEING LEASED "AS IS" WITH TENANT ACCEPTING ALL DEFECTS, IF ANY, IN THE DEMISED PREMISES (OR IMPROVEMENTS, IF ANY) AND LANDLORD MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, WITH RESPECT TO THE PREMISES (WITHOUT LIMITATION, LANDLORD MAKES NO WARRANTY AS TO THE HABITABILITY, FITNESS OR SUITABILITY OF THE PREMISES FOR A PARTICULAR PURPOSE NOR AS TO THE PRESENCE OR ABSENCE OF ANY TOXIC OR OTHERWISE HAZARDOUS SUBSTANCES). LANDLORD SHALL NO OBLIGATIONS AS TO THE CONDITIONS, CONSTRUCTION OR MAINTENANCE OF THE PREMISES.

16.20 In addition to the statutory Landlord's lien, Landlord shall have at all times a valid security interest for the payment of all rents and other sums of money due hereunder from Tenant and to secure payment of any damages or loss which Landlord may suffer by reason of the breach by Tenant or any covenant, agreement or condition contained herein, upon all goods, wares, equipment, fixtures, furniture, improvements, and other personal property of Tenant presently, or which may hereafter be, situated on the Premises, and all proceeds therefrom and such property shall not be removed without the consent of Landlord until all arrearages in rent and other monies due to Landlord of to become due to shall first have been paid and discharged and all covenants, agreements and conditions hereof have been fully omitted with and performed by Tenant. Landlord agrees that Landlord will subordinate its security interest and Landlord's lien rights provided herein to any security interest of Tenant's purchase money supplier or institutional lender so as long as at the time of such request no event of default exists and the Rent is current.

(Remainder of page intentionally left blank; signature page follows)

Two handwritten signatures in blue ink are located in the bottom right corner of the page. The first signature is a stylized, cursive 'A' or similar character. The second signature is a circular mark containing a stylized 'P' or similar character.

IN WITNESS WHEREOF, the parties hereto have caused this Lease to be duly executed in their respective names by their duly authorized officers on the day and year set forth below each party's execution.

TENANT

Seven Kings Holdings, Inc., a Florida corporation

By: Raymond E. Graziotto
Its: President

Witness Tyson J. Waters
Witness Linda Searles

LANDLORD

Riviera Shores, LLC, a Florida limited liability company

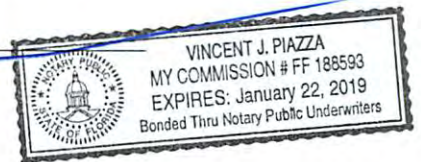
By: Andrew V. Podray
Its: Authorized Member

Witness Vincent J. Piazza
Witness Mary Kennamer McKee

STATE OF FLORIDA
COUNTY OF PALM BEACH

The foregoing instrument was executed and acknowledged before me this 18th day of Sept, 2015, by Andrew V. Podray, as Authorized Member of Riviera Shores, LLC, a Florida limited liability company, who are personally known to me or produced as identification.

Notary Public



STATE OF Florida
COUNTY OF Palm Beach

The foregoing instrument was executed and acknowledged before me this 21st day of Sept, 2015, by Raymond E. Graziotto, as President of Seven Kings Holdings, Inc., a Florida corporation, who are personally known to me or produced as identification.

Linda D. Searles
Notary Public



IN WITNESS WHEREOF, I have hereunto set my hand and the seal of my office, at Tallahassee, Florida, this 15th day of August, 2017.

Notary Public
State of Florida
My Commission Expires 08/15/2019

Signature
Notary Public
State of Florida
My Commission Expires 08/15/2019

Signature
Notary Public
State of Florida
My Commission Expires 08/15/2019

Signature
Notary Public
State of Florida
My Commission Expires 08/15/2019

IN WITNESS WHEREOF, I have hereunto set my hand and the seal of my office, at Tallahassee, Florida, this 15th day of August, 2017.

Notary Public
State of Florida
My Commission Expires 08/15/2019

Signature
Notary Public
State of Florida
My Commission Expires 08/15/2019

IN WITNESS WHEREOF, I have hereunto set my hand and the seal of my office, at Tallahassee, Florida, this 15th day of August, 2017.

Notary Public
State of Florida
My Commission Expires 08/15/2019

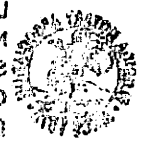


Exhibit "A"
Premises

The South 125 feet of the North 677.56 feet of Government Lot 3, Section 28, Township 42 South, Range 43 East, lying West of the high water mark of Lake Worth and East of a line 486.5 feet East of, and parallel to, the East line of Lot 33, of INLET SHORES, according to the plat thereof recorded in the Public Records of Palm Beach County, Florida, in Plat Book 13, Page 8.

Being the same property conveyed to Harry Simmons and Vesta Simmons, his wife, from Stafford Bacon Beach and John Bernard Beach, individually and as Co-Executors of the Estate of Annie B. Beach, deceased, joined by their wives, Catherine B. Beach and Hilda Mary Beach, respectively, by deed dated December 23, 1957, in Official Record Book 148, Page 450, Palm Beach County, Florida Public Records.

TOGETHER with all of that real property conveyed by Trustees of the Internal Improvement Fund of the State of Florida Deed No. 22842 (931-50) recorded July 24, 1961, in Official Record Book 657, Page 702, Palm Beach County, Public Records, more particularly described as:

A parcel of submerged land in Section 28, Township 42 South, Range 43 East, Palm Beach County, Florida, more particularly described as follows:

COMMENCING at a point in the high water line on the West shore of Lake Worth, said point being in a line 552.56 feet South of, and parallel to, the North line of Government Lot 3, of said Section 28, at a distance of 640.36 feet East of the East line of Lot 33, INLET SHORES, according to the plat thereof, recorded in Plat Book 13, Page 8, Public Records of Palm Beach County, Florida; said point being also in the City of Riviera Beach Bulkhead Line, established by Ordinance No. 432, on October 1, 1957, and the POINT OF BEGINNING of the herein described tract of land; Thence South $14^{\circ}27'23''$ East, along said City of Riviera Beach Bulkhead Line, a distance of 87.63 feet to a point in the North right of way line of State Road No. 703, extended Easterly according to the plat thereof recorded in Road Plat Book 1, at Page 73, Public Records of Palm Beach County, Florida; Thence South $87^{\circ}41'10''$ West along said North right of way line of State Road No. 703, a distance of 14.00 feet to a point in the said High Water Line on the Westerly shore of Lake Worth, said point

being the face of a Timber Bulkhead; Thence North $07^{\circ}03'50''$ West, along said High Water Line and the face of said Timber Bulkhead, a distance of 41.00 feet; Thence North $02^{\circ}22'04''$ West, along said High Water Line, a distance of 44.78 feet to the POINT OF BEGINNING.

AND all of that real property conveyed in Trustees of the Internal Improvement Fund of the State of Florida Deed No. 22843 (931-50) recorded July 24, 1961, in Official Record Book 657, at Page 700, more particularly described as follows:

A tract of sovereignty land now filled in Section 28, Township 42 South, Range 43 East, Palm Beach County, Florida, more particularly described as follows:

BEGIN at a point in a line 552.56 feet South of, and parallel to, the North line of Government Lot 3 of said Section 28, at a distance of 486.5 feet East of the East line of Lot 33, INLET SHORES, according to the plat thereof, recorded in Plat Book 13, Page 8, Public Records of Palm Beach County, Florida, said point being also the Northwest corner of the herein described tract of land; Thence South $88^{\circ}02'35''$ East, along said parallel line, 153.86 feet to a point in the High Water Line on the West shore of Lake Worth; Thence South $02^{\circ}22'04''$ East, along said High Water Line, 44.78 feet to an existing Timber Bulkhead; Thence South $07^{\circ}03'50''$ East, along the face of the said Timber Bulkhead, a distance of 41.00 feet to a point in the North right of way line of State Road No. 703, according to the plat thereof, recorded in Road Plat Book 1, at Page 73, Public Records of Palm Beach County, Florida; Thence South $87^{\circ}41'10''$ West, 95.9 feet along said North right of way line of State Road No. 703, to the beginning of a curve concave to the North, whose radius is 5679.65 feet; Thence Southwesterly and Westerly along the arc of said curve and said North right of way line, a distance of 67.80 feet to a point in a line parallel to and 486.50 feet East of the East line of said Lot 33, INLET SHORES; Thence North $01^{\circ}07'25''$ West, along said parallel line, a distance of 96.87 feet to the POINT OF BEGINNING.

LESS a 3 foot wide strip of land over, through and across a parcel of land in Government Lot 3, Section 28, Township 42 South, Range 43 East; said 3 foot wide strip of land lying Westerly of, and abutting, the Town of Riviera Beach Bulkhead Line as recorded in Plat Book 27, at Page 142, of the Public Records of Palm Beach County, Florida; bounded on the South by the North right of way line of State Road A-1-A (Blue Heron Boulevard) and bounded on the North by a line 552.56 feet Southerly of, and parallel to, the North line of said Government Lot 3.